Environmental Impact Assessment
Cruise Berthing Terminal
for Cayman Islands
APPENDIX H: NOISE & VIBRATION

PREPARED FOR:

Prepared by:

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SITE ID	LOCATION	LAT	LONG	EASTING	NORTHING	SENSITIVITY
N/AQ1	WHITEHALL GDNS	19.31467	-81.38347	459716	2135690	RESIDENTIAL AREA 2KM N OF ROYAL WATLER

Date	**Time**	**Run Time**	**Leq**	**Standard for living area (Daytime)**	**Standard for living area (Nighttime)**	**Lmax**	**Peak**	**SEL**	**Ln90%**
16/06/2014	17:52	00:07:04	60	55		79	94	86	53
16/06/2014	18:00	01:00:01	56	55		78	97	91	52
16/06/2014	19:00	01:00:04	57	55		90	111	92	51
16/06/2014	20:00	01:00:01	54	55		73	91	89	50
16/06/2014	21:00	01:00:01	58	55		90	101	93	50
16/06/2014	22:00	01:00:04	53	55		66	91	88	48
16/06/2014	23:00	01:00:04	52		45	71	87	87	47
17/06/2014	00:00	01:00:05	52		45	71	98	87	47
17/06/2014	01:00	00:59:57	50		45	61	92	85	47
17/06/2014	02:00	01:00:05	49		45	59	81	84	47
17/06/2014	03:00	01:00:02	49		45	68	85	84	46
17/06/2014	04:00	01:00:01	50		45	66	86	85	47
17/06/2014	05:00	01:00:03	52		45	65	89	87	47
17/06/2014	06:00	01:00:01	58		45	80	95	93	47
17/06/2014	07:00	01:00:02	58	55		87	113	93	51
17/06/2014	08:00	01:00:00	57	55		70	91	92	52
17/06/2014	09:00	01:00:01	58	55		88	97	94	51
17/06/2014	10:00	00:59:59	60	55		83	102	95	51
17/06/2014	11:00	01:00:02	56	55		79	97	92	51
17/06/2014	12:00	01:00:00	60	55		84	93	95	52
17/06/2014	13:00	01:00:01	60	55		84	94	96	52
17/06/2014	14:00	01:00:03	58	55		86	98	93	51
17/06/2014	15:00	00:59:59	56	55		71	97	92	52
17/06/2014	16:00	01:00:01	56	55		72	93	92	53
		AVG	55	55	45	76	95	90	50
		MIN	49	55	45	59	81	84	46
		MAX	60	55	45	90	113	96	53

SITE ID	LOCATION	LAT	LONG	EASTING	NORTHING	SENSITIVITY
N/AQ2	NBSC - ELGIN RD	19.29382	-81.381271	459942	2133383	400M NW OF GEORGE TOWN HOSPITAL; 300M SE OF PUBLIC LIBRARY

Date	**Time**	**Run Time**	**Leq**	**WHO GV**	**Lmax**	**Peak**	**SEL**	**Ln90%**
18/06/2014	10:58	00:01:33	62	70	77	101	81	53
18/06/2014	11:00	01:00:03	55	70	76	93	91	52
18/06/2014	12:00	01:00:06	56	70	75	96	92	53
18/06/2014	13:00	01:00:02	56	70	81	96	91	52
18/06/2014	14:00	00:59:59	63	70	89	100	98	52
18/06/2014	15:00	01:00:02	62	70	91	102	98	53
18/06/2014	16:00	00:59:58	56	70	75	97	92	53
18/06/2014	17:00	01:00:02	66	70	86	110	101	53
18/06/2014	18:00	01:00:04	69	70	95	114	104	53
18/06/2014	19:00	01:00:02	58	70	78	100	93	52
18/06/2014	20:00	01:00:03	55	70	77	98	91	50
18/06/2014	21:00	01:00:03	55	70	76	102	91	49
18/06/2014	22:00	01:00:00	52	70	71	92	88	47
18/06/2014	23:00	01:00:03	51	70	69	92	86	47
19/06/2014	00:00	01:00:00	49	70	66	87	84	47
19/06/2014	01:00	01:00:03	48	70	65	88	84	46
19/06/2014	02:00	01:00:04	48	70	71	92	83	46
19/06/2014	03:00	01:00:01	48	70	66	85	83	47
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19/06/2014	09:00	01:00:03	54	70	72	95	89	50
		AVG	56	70	77	97	91	50
		MIN	48	70	65	85	83	46
		MAX	69	70	95	114	104	53

SITE ID	LOCATION	LATITUDE	LONGITUDE	EASTING	NORTHING	SENSITIVITY		
N/AQ3	ROYAL WATLER	19.296016	-81.383294	459730	2133626	200M WEST OF PUBLIC LIBRARY,		
Date	**Time**	**Peak**	**Run Time**	**Laeq DB**	**Standard for Commercial Area (Daytime)**	**Lmax**	**SEL**	**L90%**
21/06/2014	13:28	106.20	00:31:11	67	70	84	99	56
21/06/2014	14:00	104.00	01:00:04	66	70	85	102	55
21/06/2014	15:00	103.70	01:00:00	60	70	82	96	53
21/06/2014	16:00	96.00	01:00:00	58	70	80	93	53
21/06/2014	17:00	107.30	01:00:04	63	70	92	98	54
21/06/2014	18:00	104.80	00:59:59	63	70	80	98	55
21/06/2014	19:00	108.20	01:00:03	69	70	80	105	64
21/06/2014	20:00	108.90	01:00:01	69	70	84	104	60
21/06/2014	21:00	107.20	01:00:03	70	70	80	106	65
21/06/2014	22:00	107.50	01:00:03	68	70	83	104	60
21/06/2014	23:00	96.60	01:00:02	63	70	76	98	55
22/06/2014	00:00	101.20	01:00:01	65	70	85	100	50
22/06/2014	01:00	111.20	01:00:04	67	70	97	102	55
22/06/2014	02:00	97.40	00:59:59	60	70	83	96	54
22/06/2014	03:00	97.00	01:00:03	62	70	82	97	53
22/06/2014	04:00	99.70	01:00:06	64	70	83	99	53
22/06/2014	05:00	101.90	01:00:00	67	70	82	102	53
22/06/2014	06:00	99.40	01:00:03	65	70	82	100	53
22/06/2014	07:00	101.70	01:00:01	65	70	85	101	53
22/06/2014	08:00	99.30	01:00:04	68	70	84	103	51
22/06/2014	09:00	100.70	00:59:59	65	70	82	100	55
22/06/2014	10:00	104.50	01:00:00	65	70	87	100	56
22/06/2014	11:00	92.40	01:00:04	60	70	75	95	54
22/06/2014	12:00	95.90	01:00:01	59	70	76	94	48
22/06/2014	14:57	64.00	00:00:05	32	70	34	39	53
			AVG	64	70	83	100	55
			MAX	70	70	97	106	65

SITE ID	LOCATION	LATITUDE	LONGITUDE	EASTING		NORTHING	SENSITIVITY
N/AQ4	CAYMAN PREP	19.288952	-81.3773	460358		2132843	SCHOOL ZONE - IN AIRPORT FLIGHT PATH

Date	Time	Peak	Run Time	Leq	WHO GV Leq	Lmax	SEL	Ln 90%
20/06/2014	12:21	115.00	00:38:23	77	55	109	110	60
20/06/2014	13:00	107.50	00:59:59	71	55	90	107	57
20/06/2014	14:00	116.10	01:00:02	75	55	111	111	57
20/06/2014	15:00	118.20	01:00:04	76	55	113	112	59
20/06/2014	16:00	111.40	01:00:03	73	55	99	108	57
20/06/2014	17:00	107.00	01:00:01	72	55	87	107	53
20/06/2014	18:00	106.10	01:00:02	71	55	95	106	53
20/06/2014	19:00	114.00	01:00:01	71	55	106	106	54
20/06/2014	20:00	113.90	01:00:00	74	55	106	109	52
20/06/2014	21:00	106.60	01:00:03	69	55	93	105	52
20/06/2014	22:00	107.00	01:00:01	68	55	84	103	50
20/06/2014	23:00	107.80	00:59:59	67	55	93	102	44
21/06/2014	00:00	102.90	01:00:04	66	55	83	101	45
21/06/2014	01:00	109.20	00:59:59	65	55	99	101	42
21/06/2014	02:00	99.80	01:00:01	63	55	85	98	41
21/06/2014	03:00	109.60	01:00:01	63	55	92	99	41
21/06/2014	04:00	108.20	01:00:04	63	55	89	98	40
21/06/2014	05:00	110.40	01:00:02	64	55	86	99	44
21/06/2014	06:00	105.00	01:00:02	67	55	83	102	47
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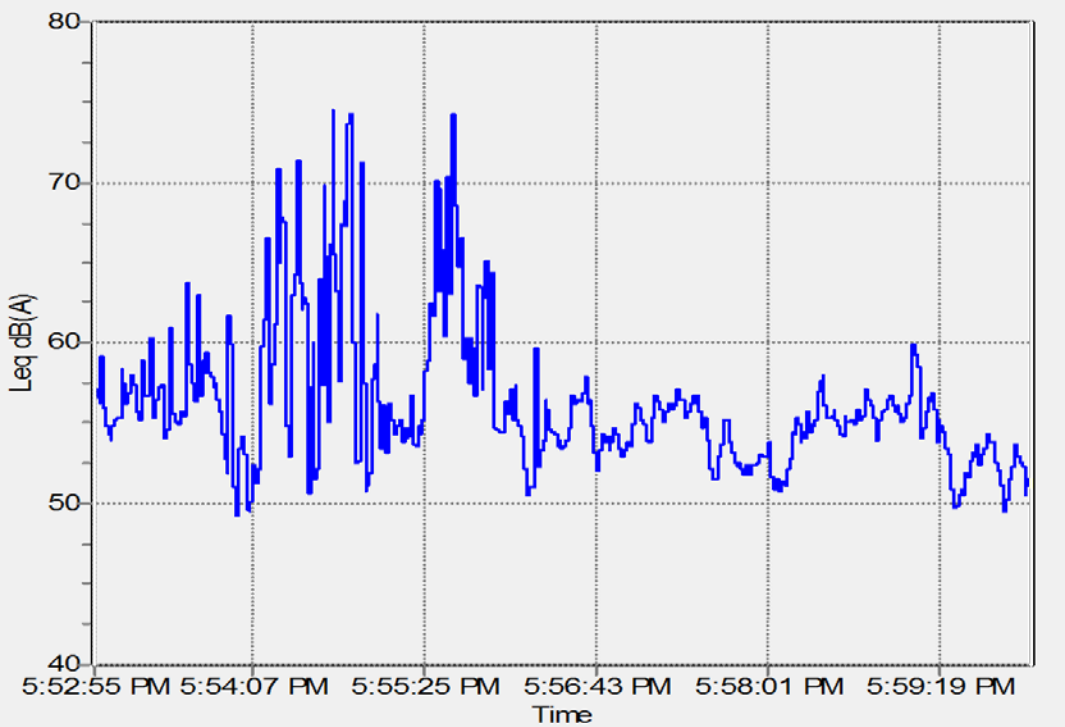
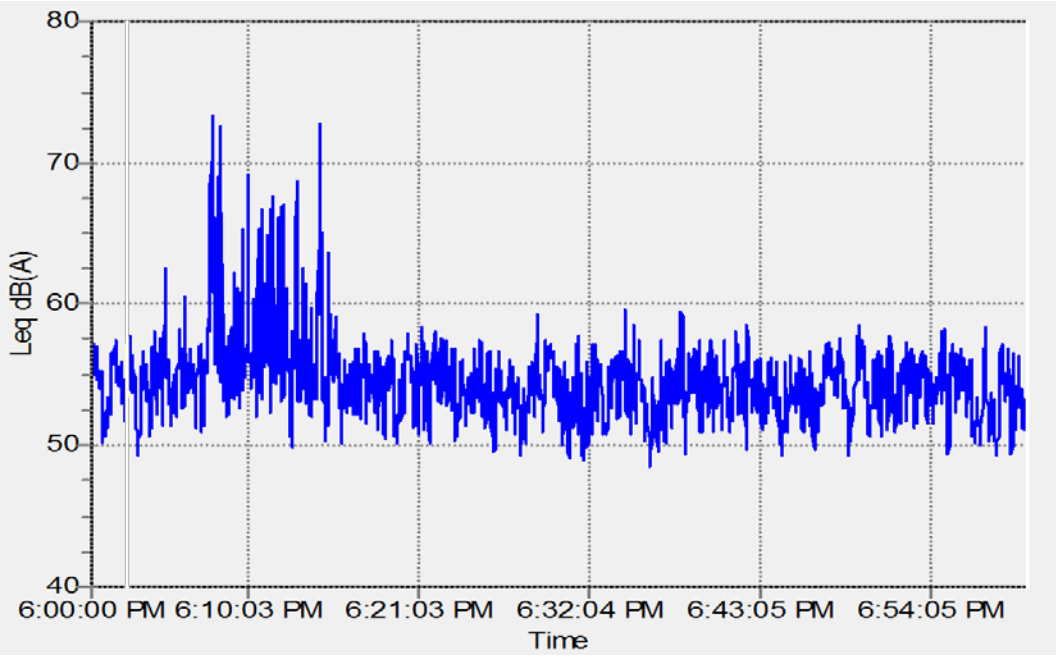
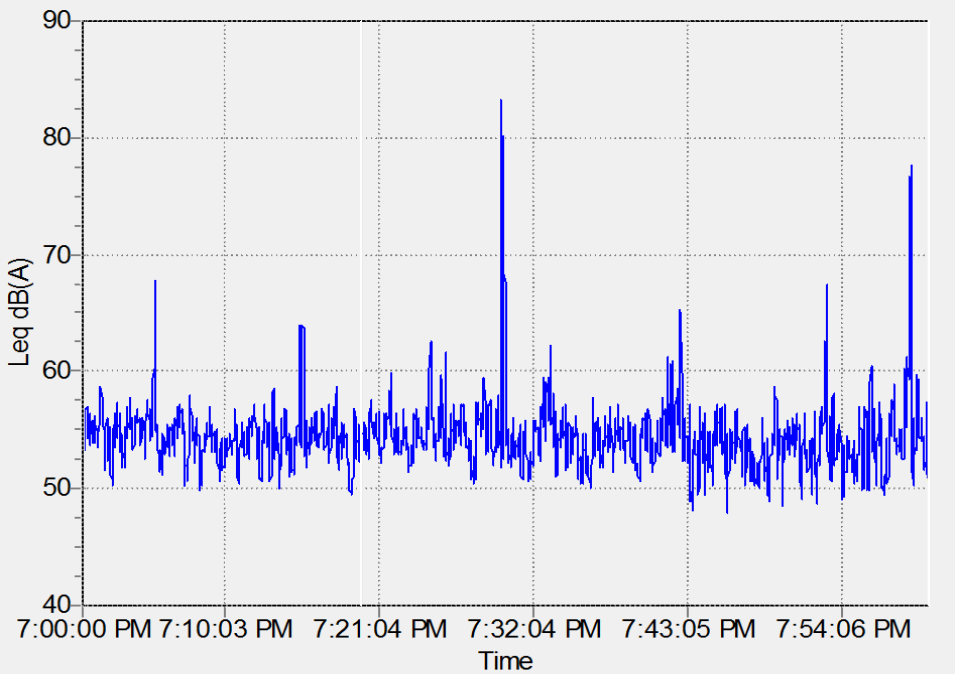
21/06/2014	09:00	112.70	01:00:01	71	55	84	106	54
21/06/2014	10:00	110.40	01:00:01	71	55	92	107	54
21/06/2014	11:00	108.70	01:00:02	72	55	91	107	55
21/06/2014	12:14	65.30	00:00:25	33	55	40	47	31
21/06/2014	12:14	64.90	00:00:09	35	55	41	45	30
21/06/2014	13:28	106.20	00:31:11	67	55	84	99	59
			AVG	69	55	93	104	50
			MAX	76	55	113	112	59
			MIN	63	55	83	98	40

SOUND MONITORING WHITE HALL AVENUE – HOURLY NOISE MEASUREMENTS JUNE 16 – 17, 2014



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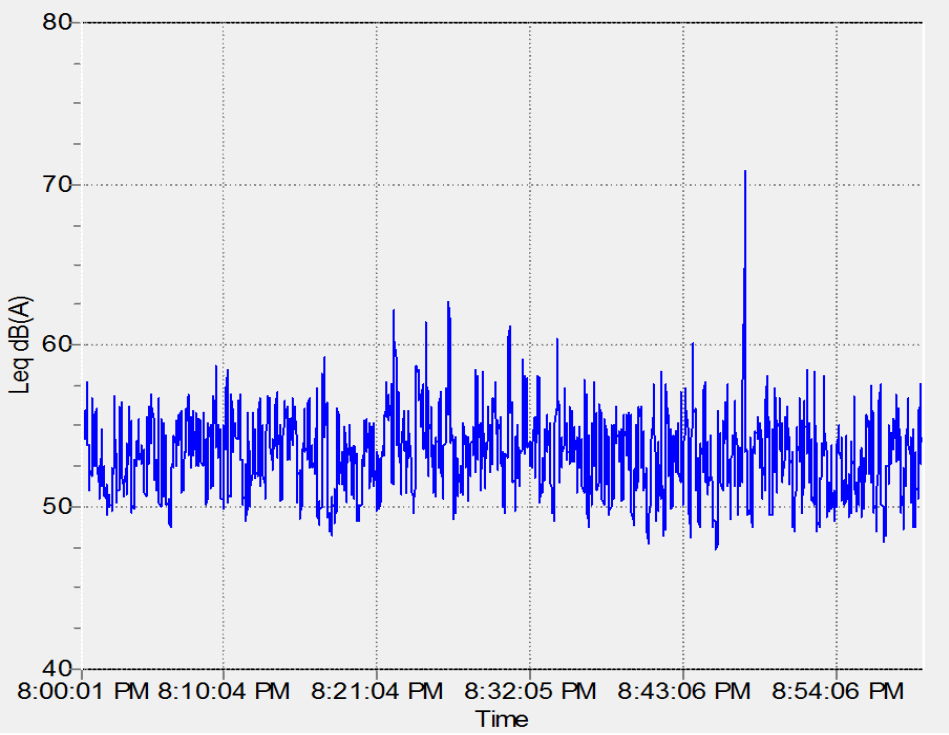
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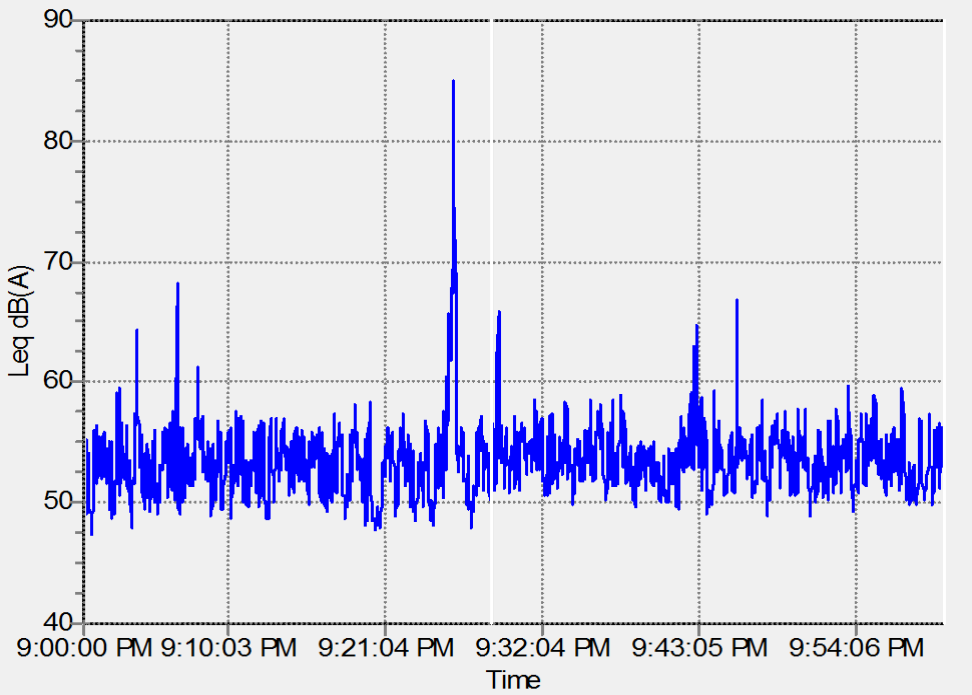
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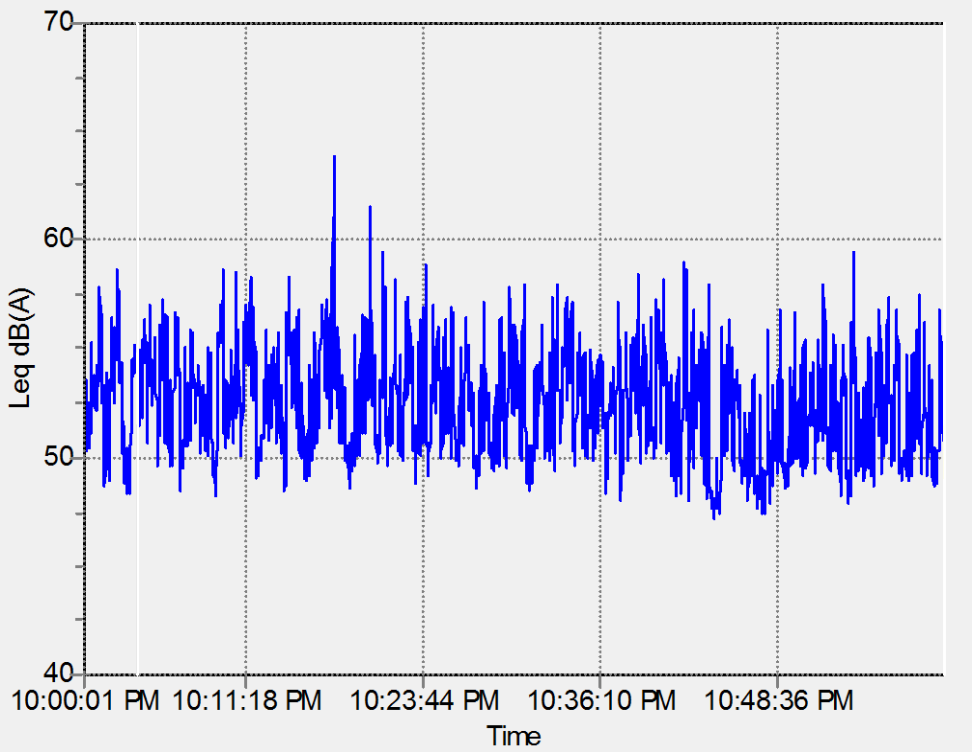
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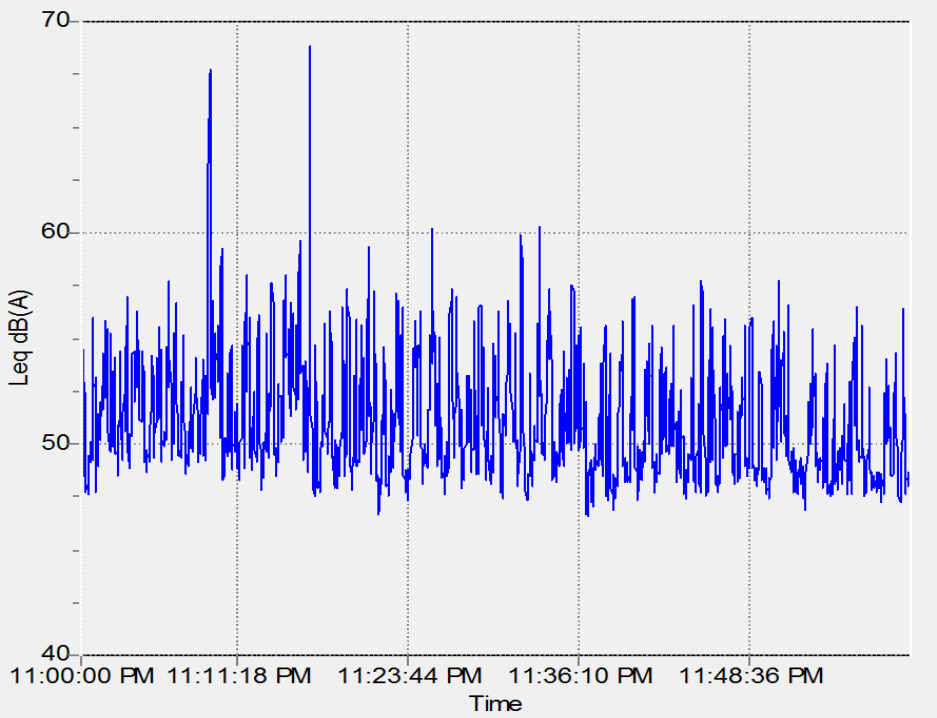
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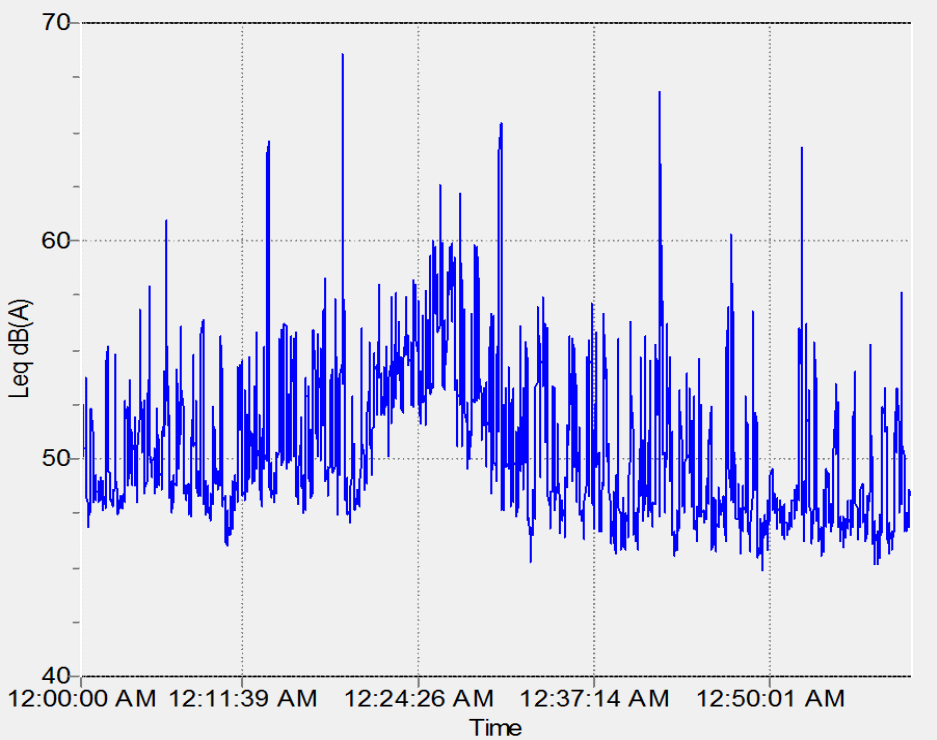
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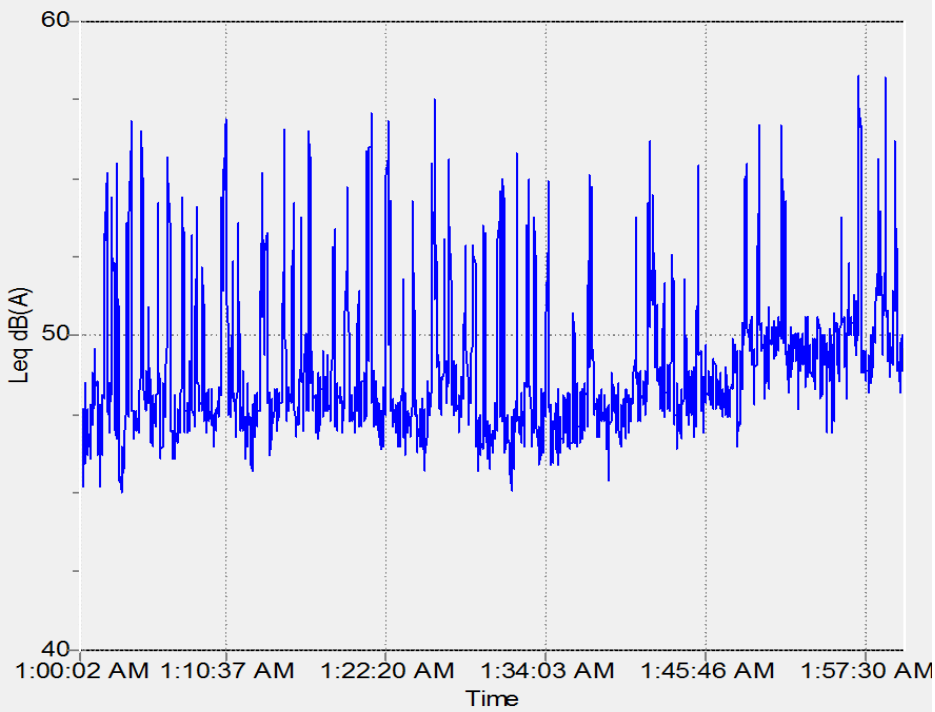
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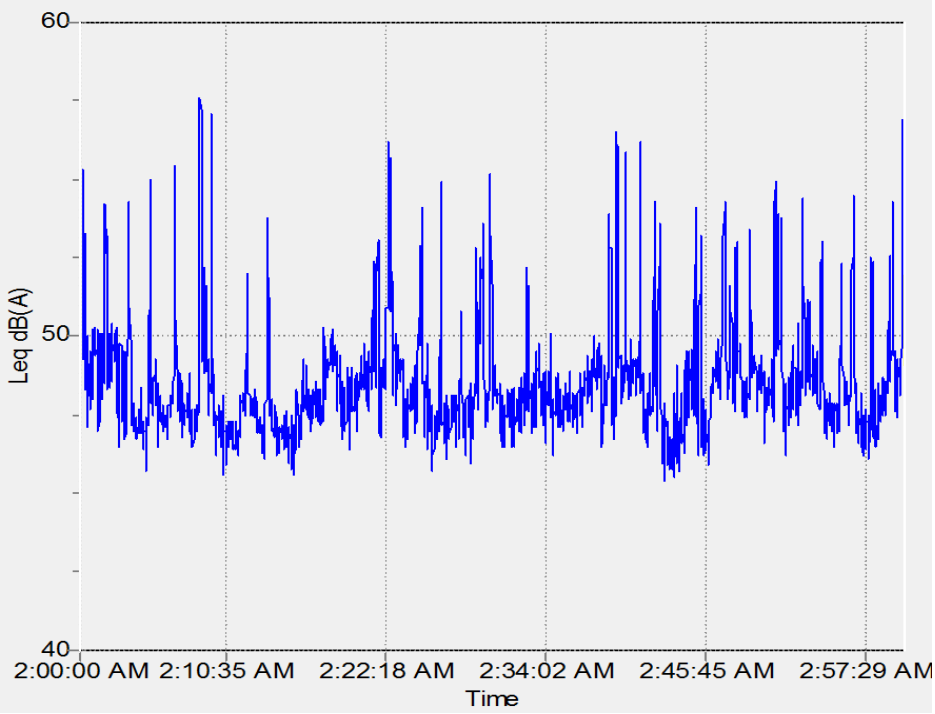
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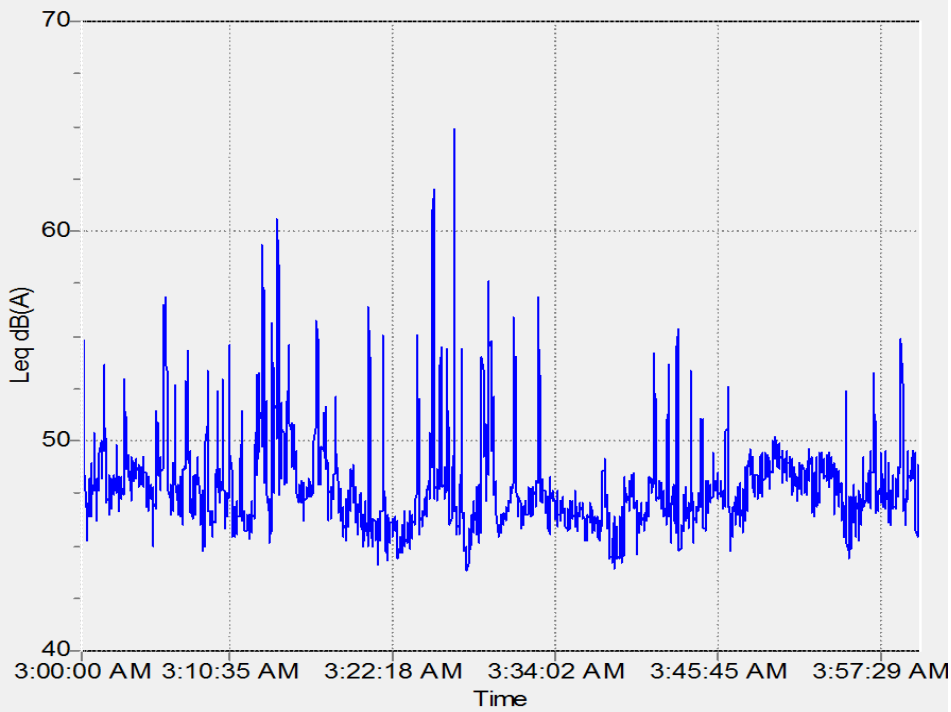
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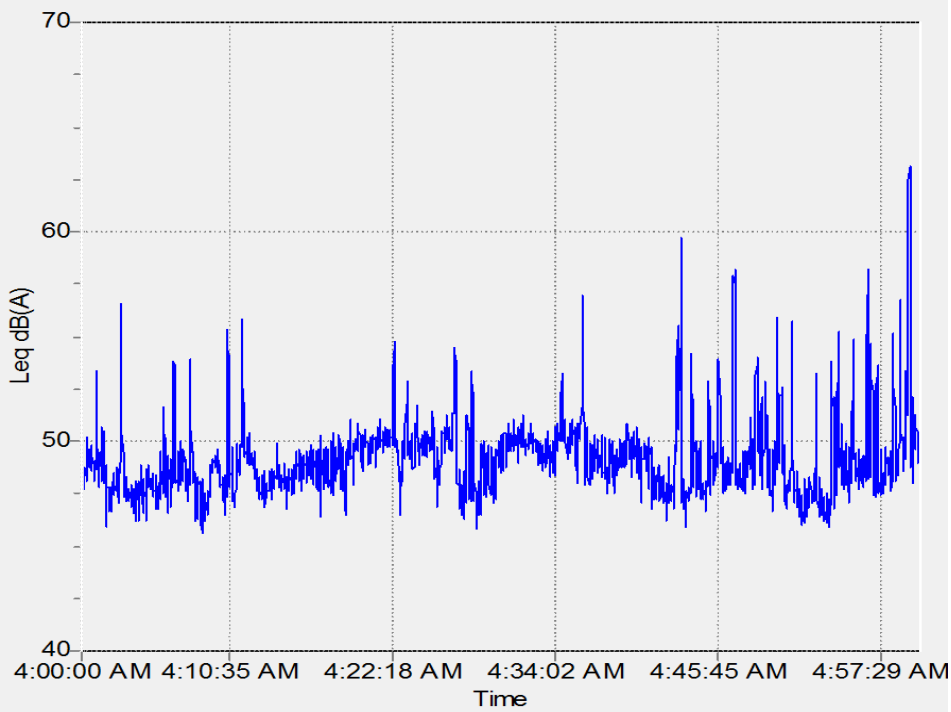
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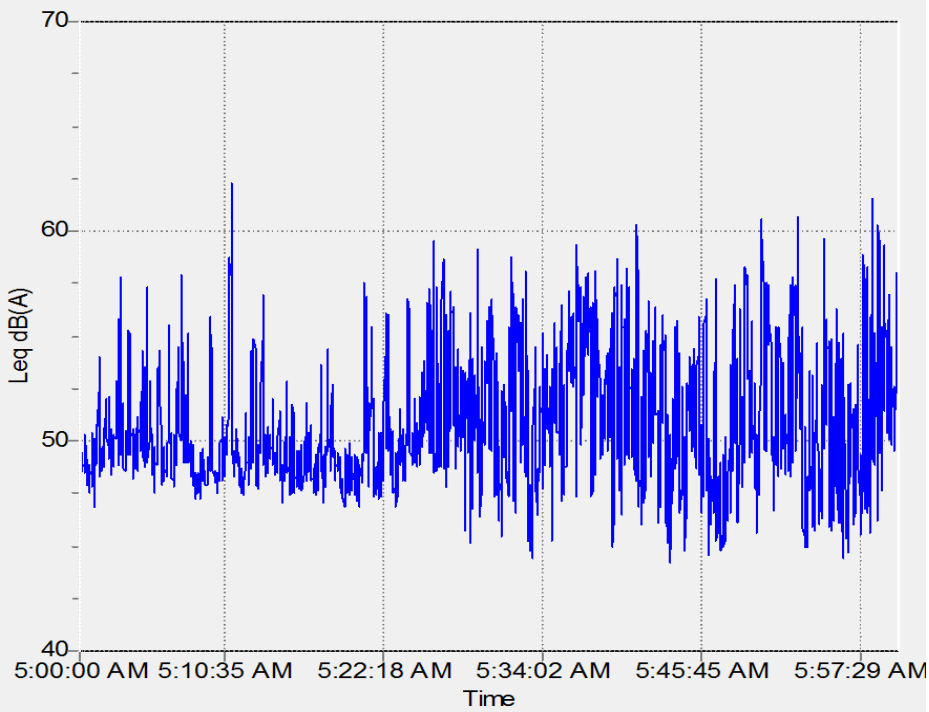
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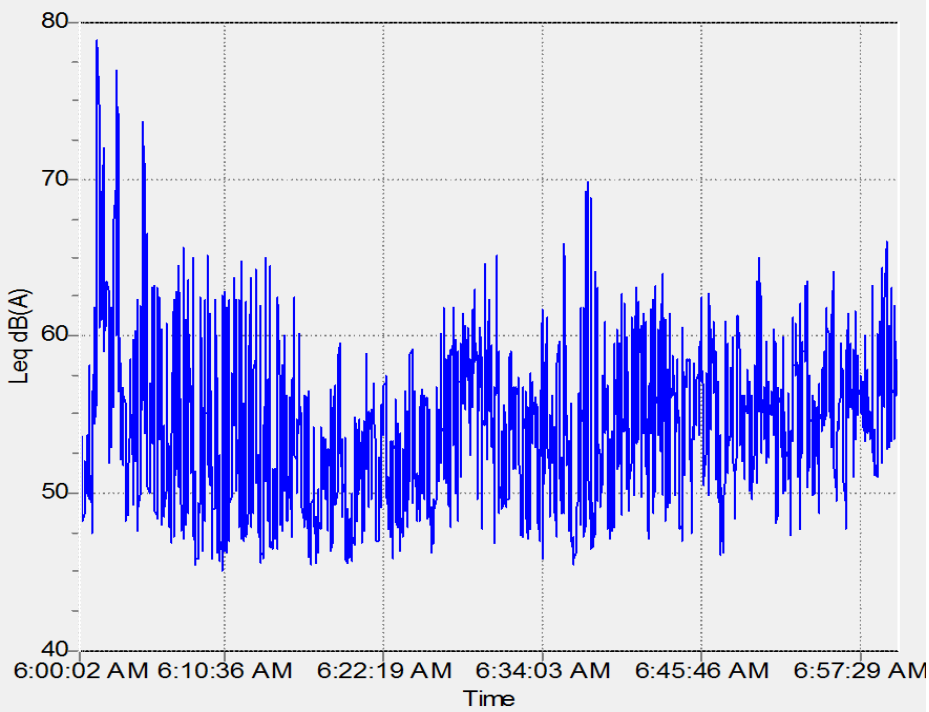
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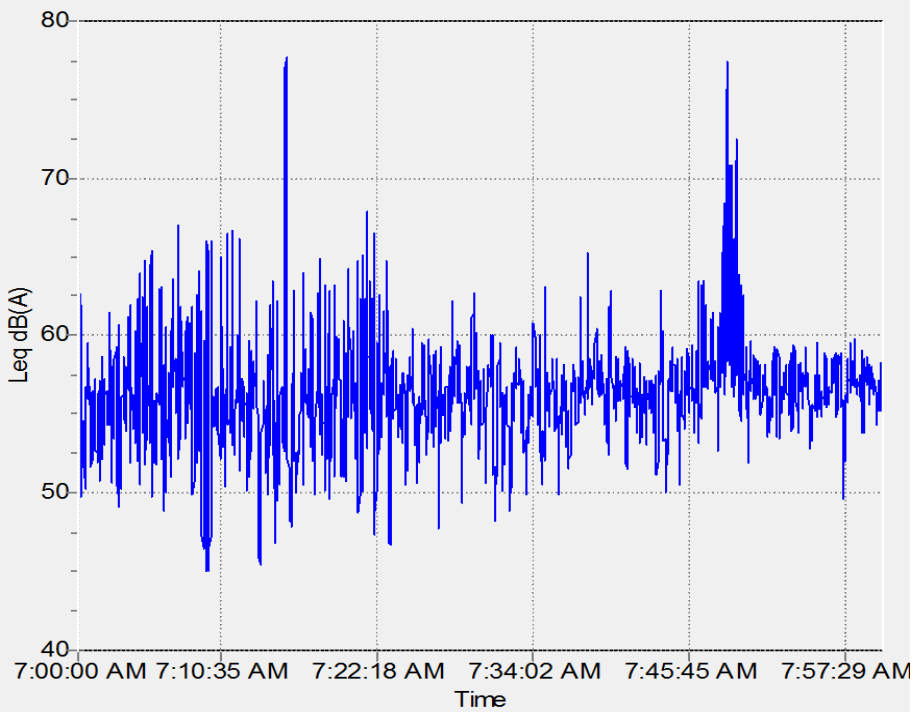
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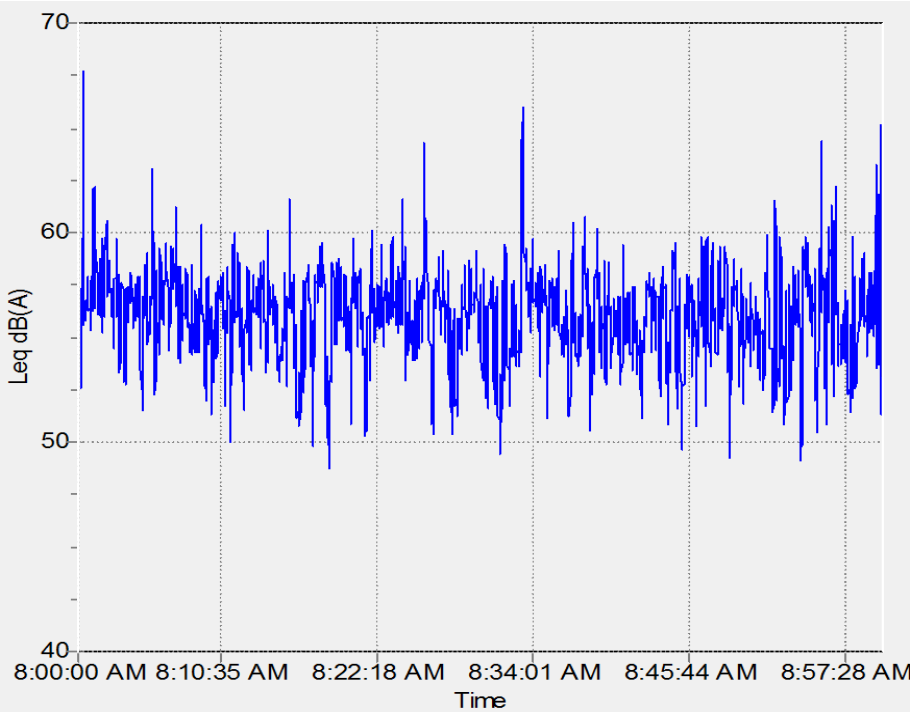
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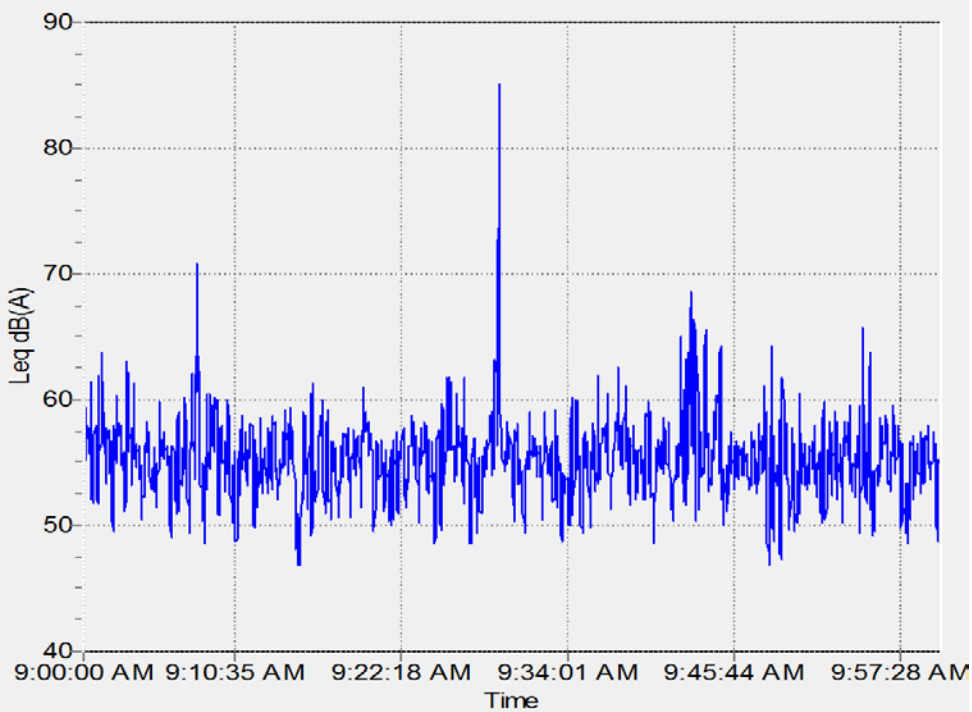
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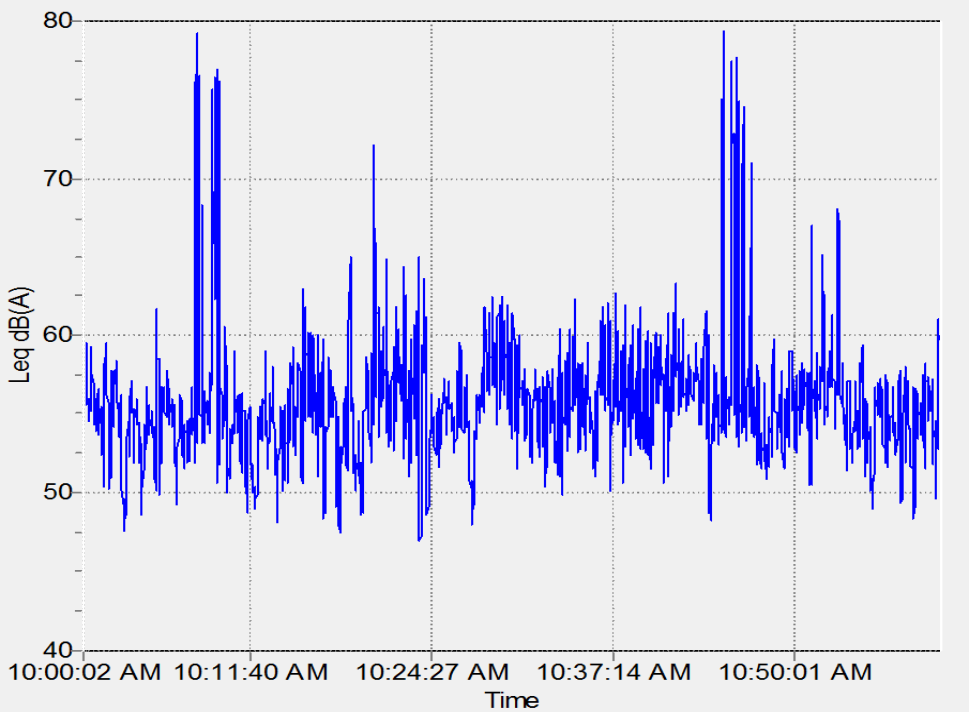
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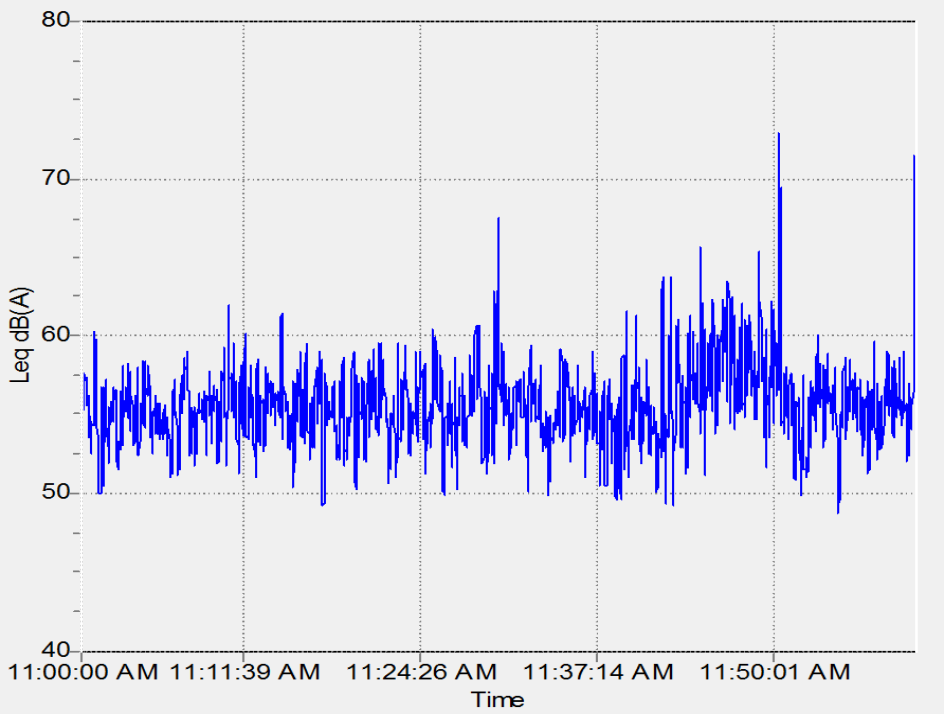
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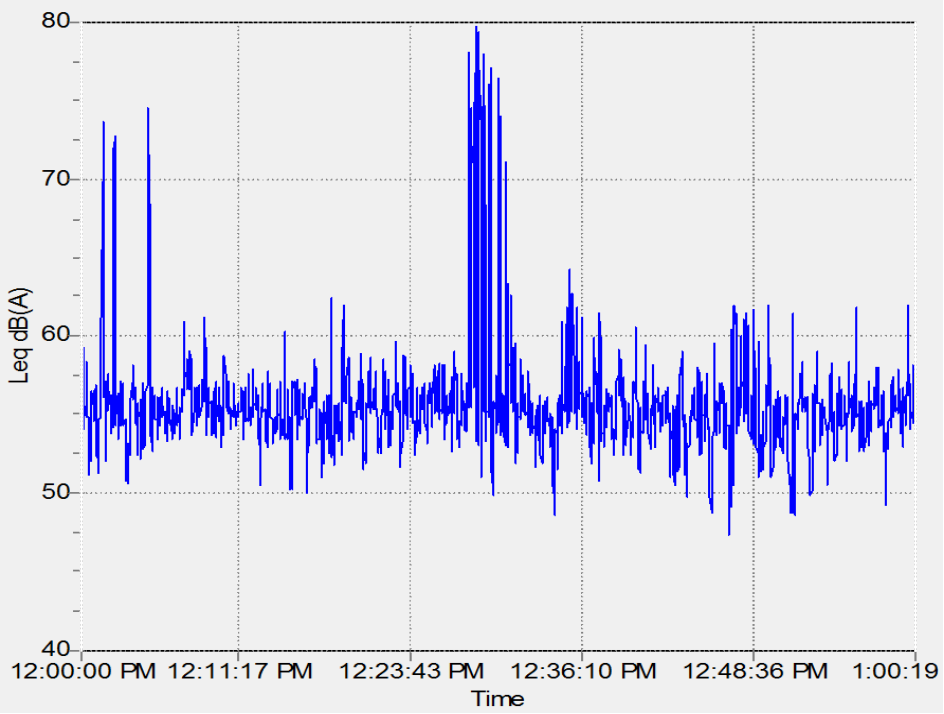
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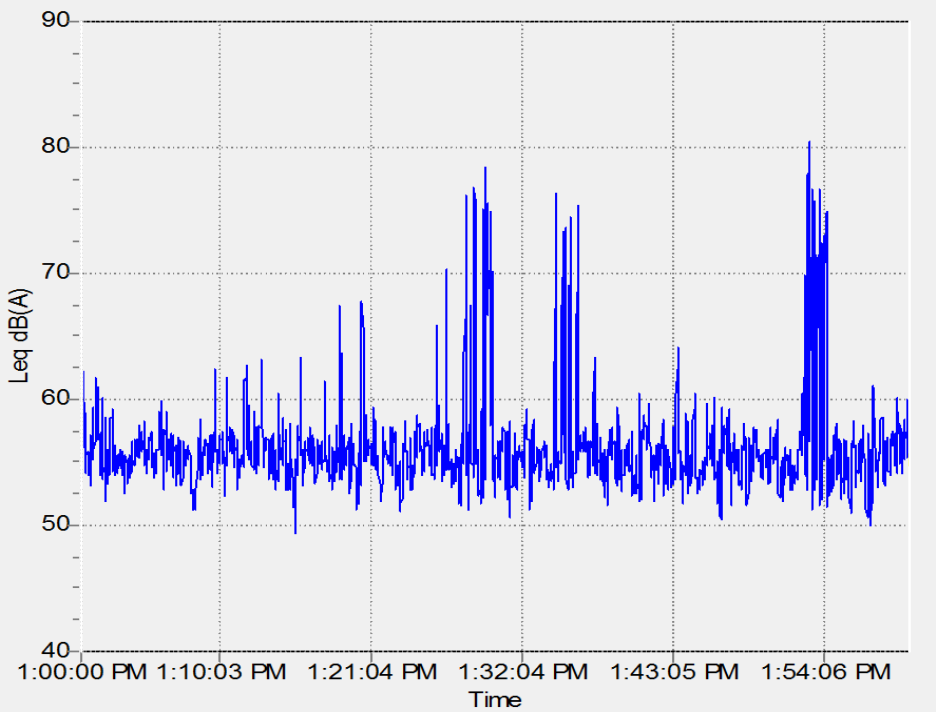
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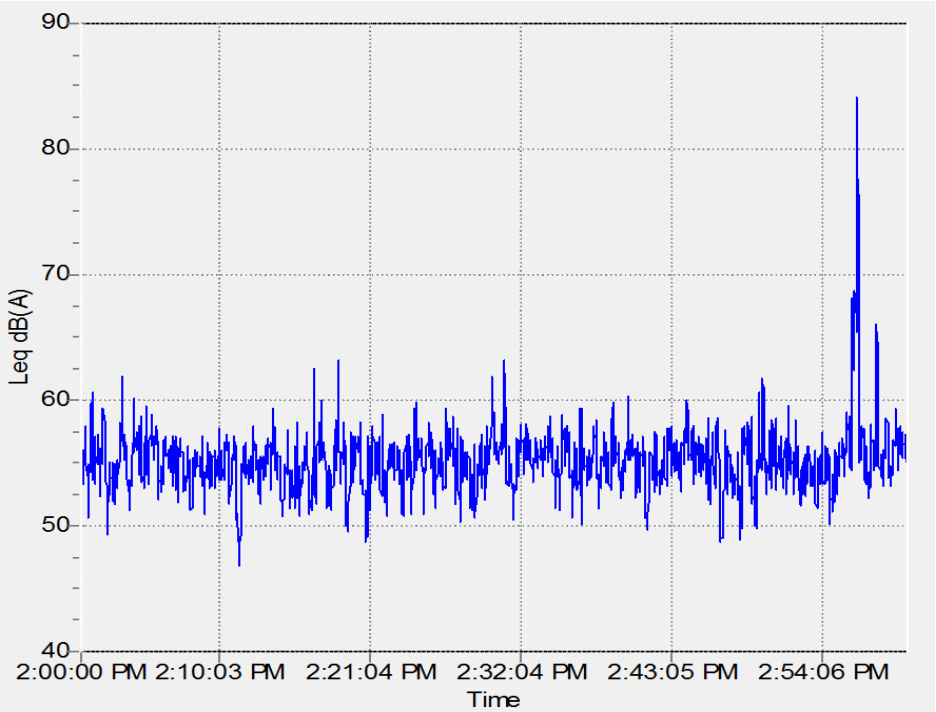
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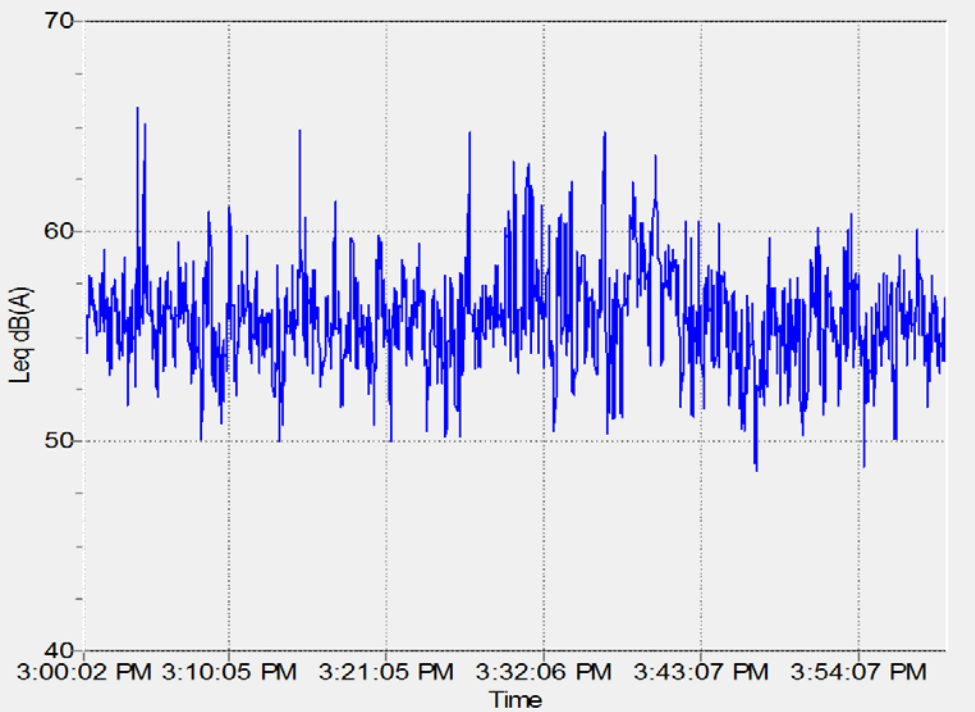
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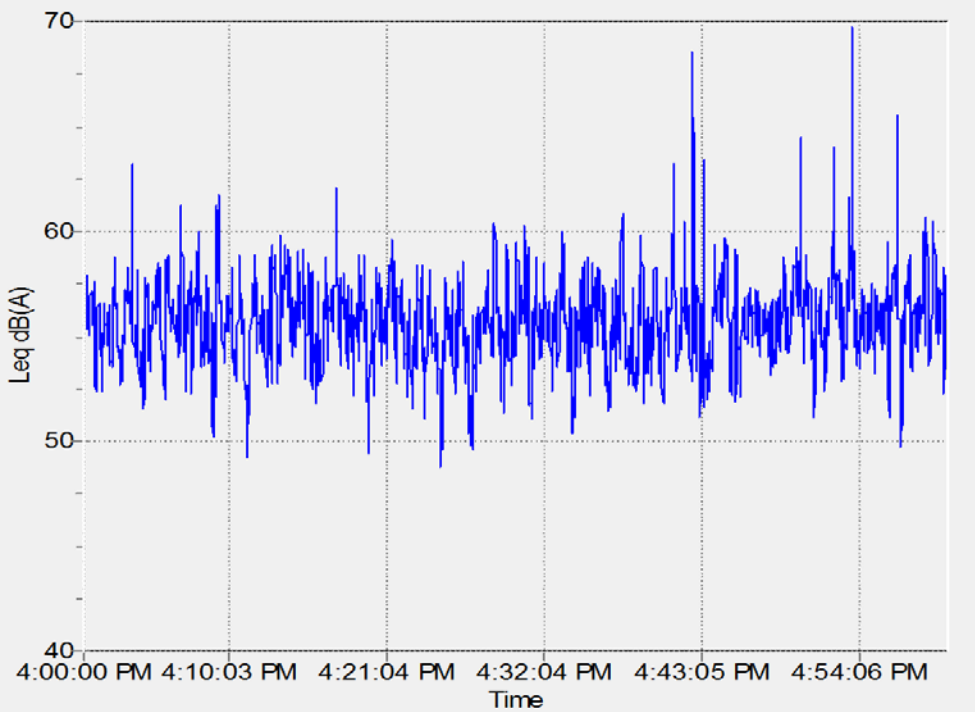
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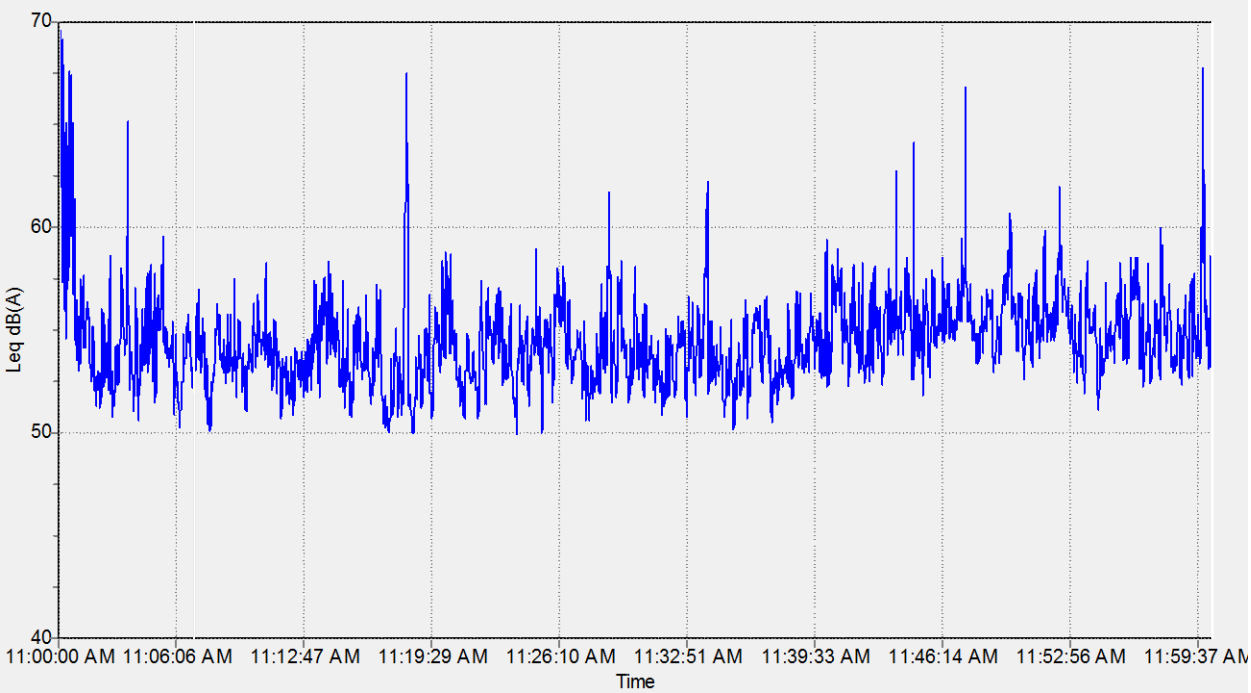
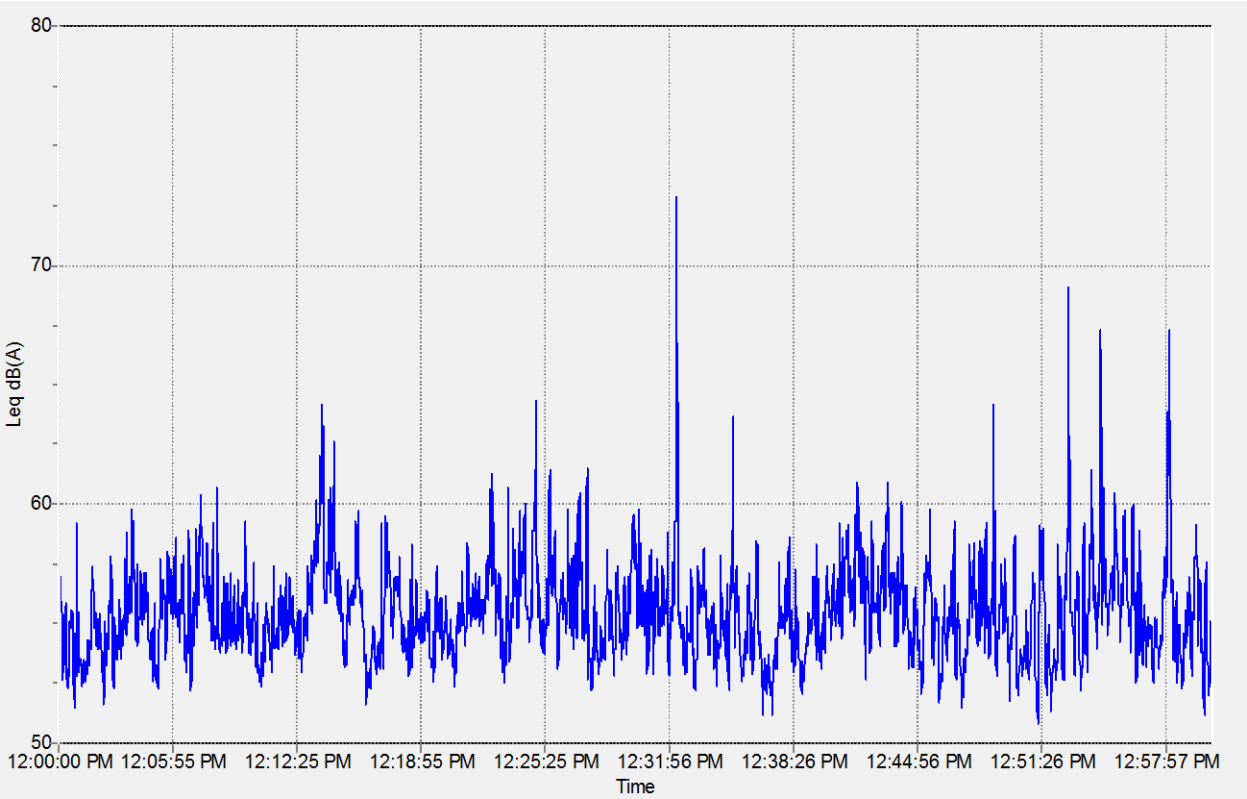
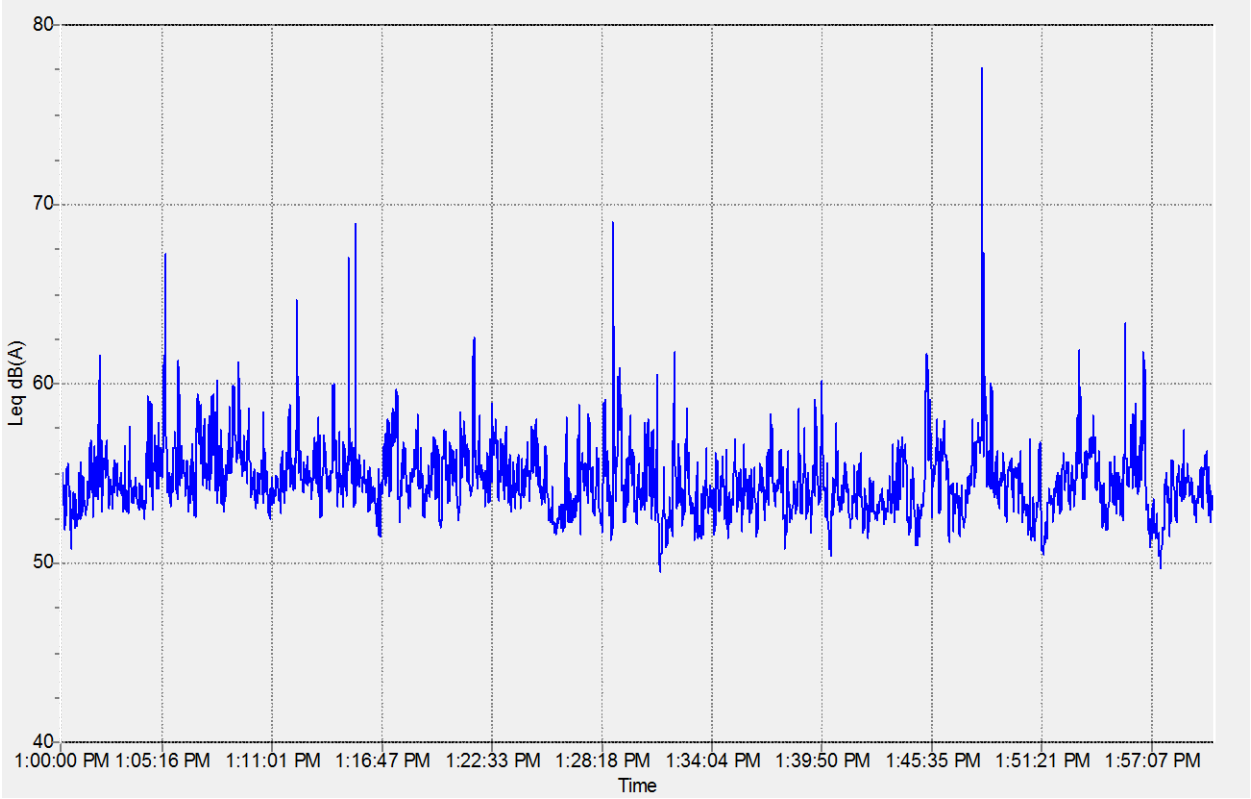
SOUND MONITORING ELGIN RD – HOURLY NOISE MEASUREMENTS JUNE 18 – 19, 2014



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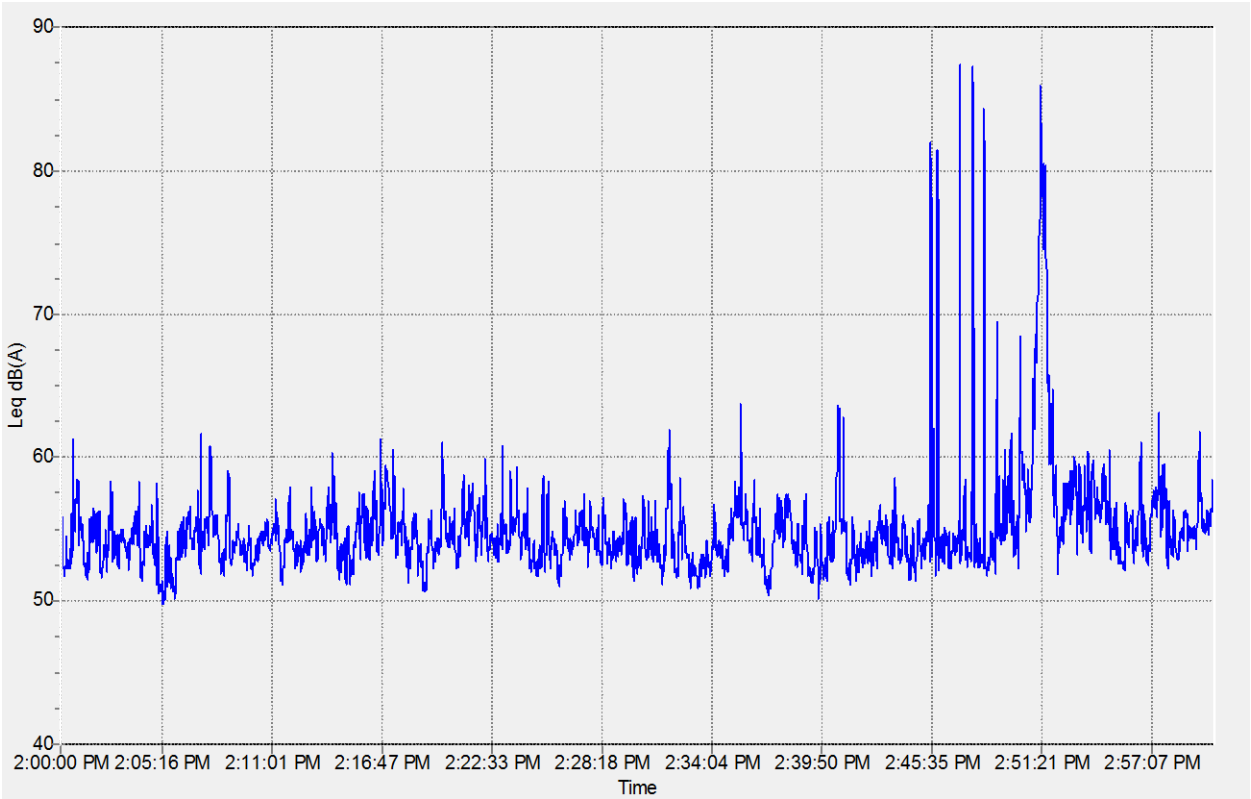
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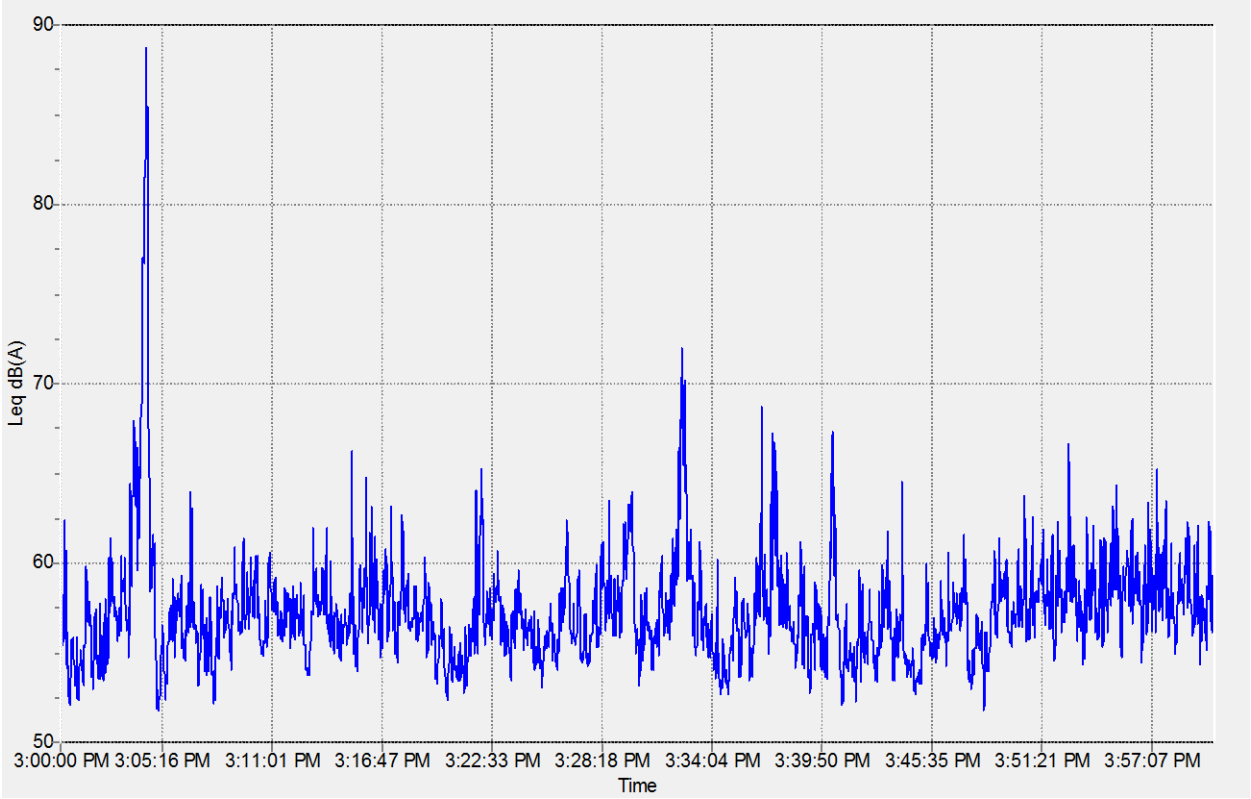
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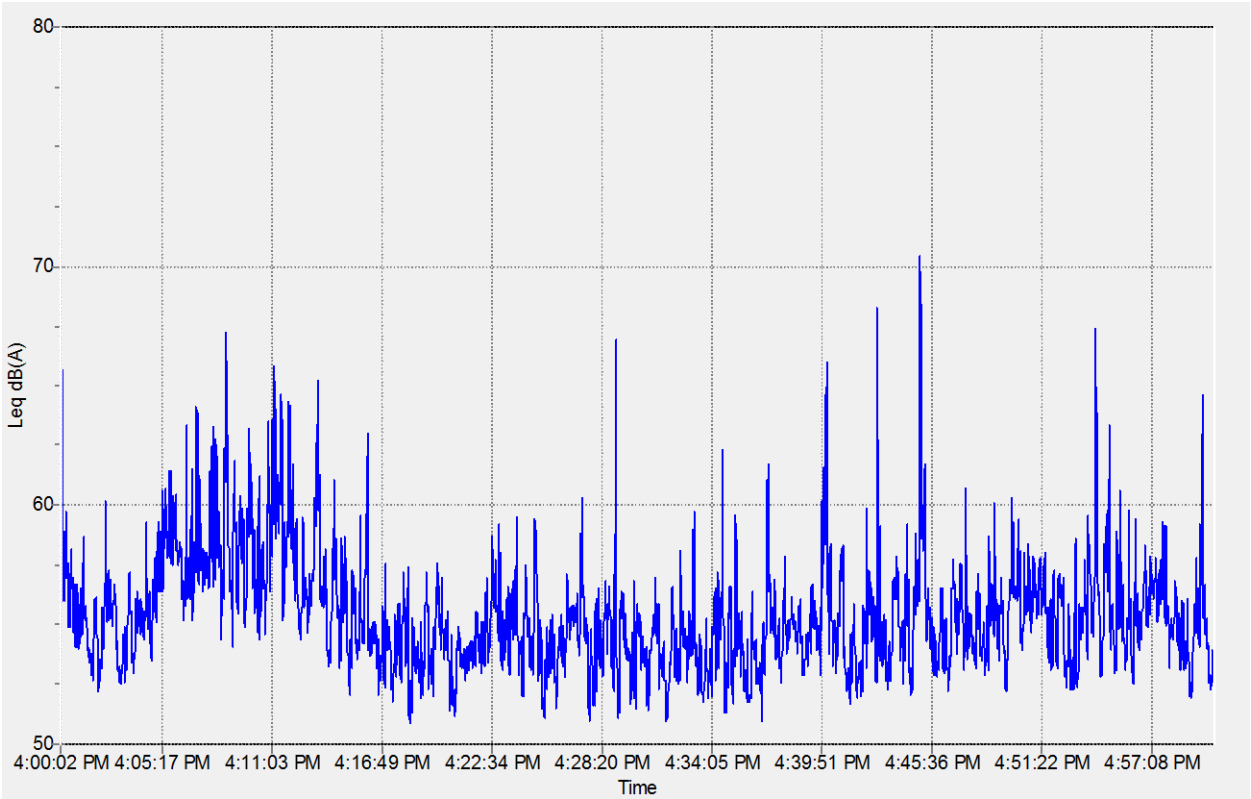
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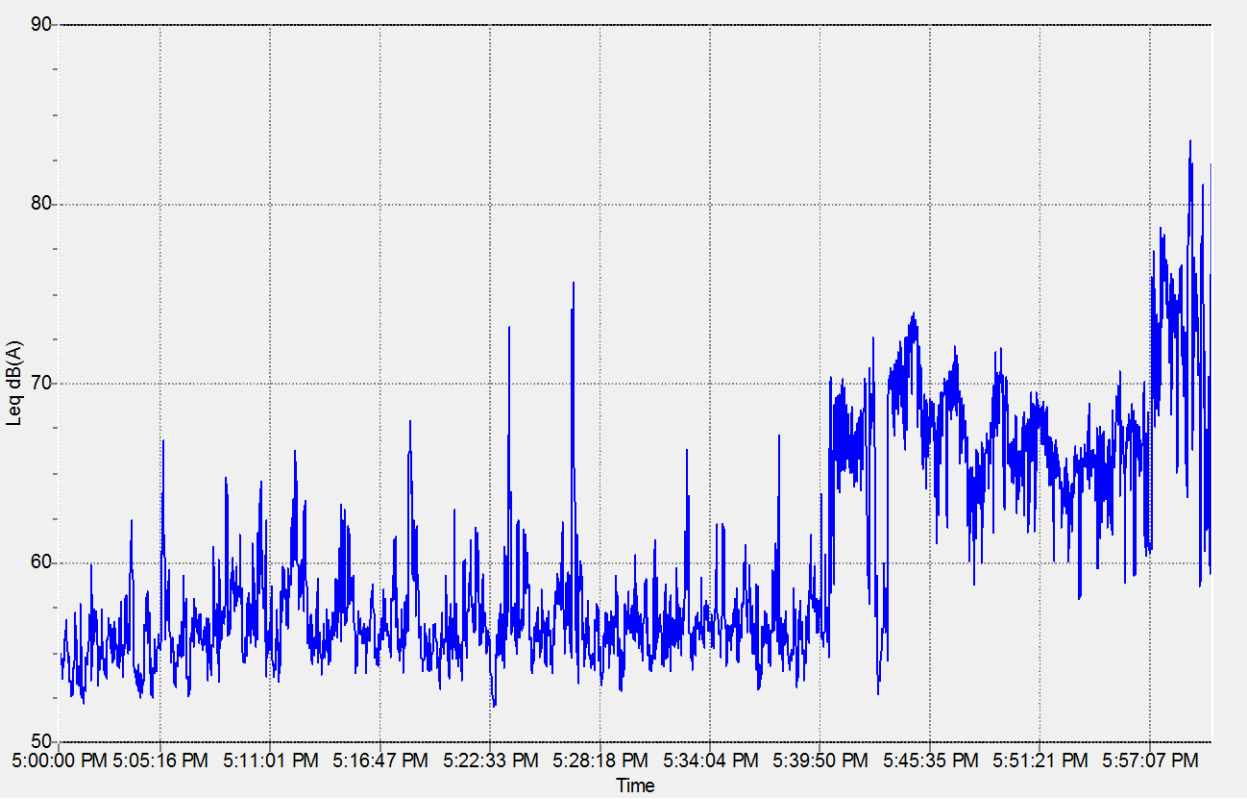
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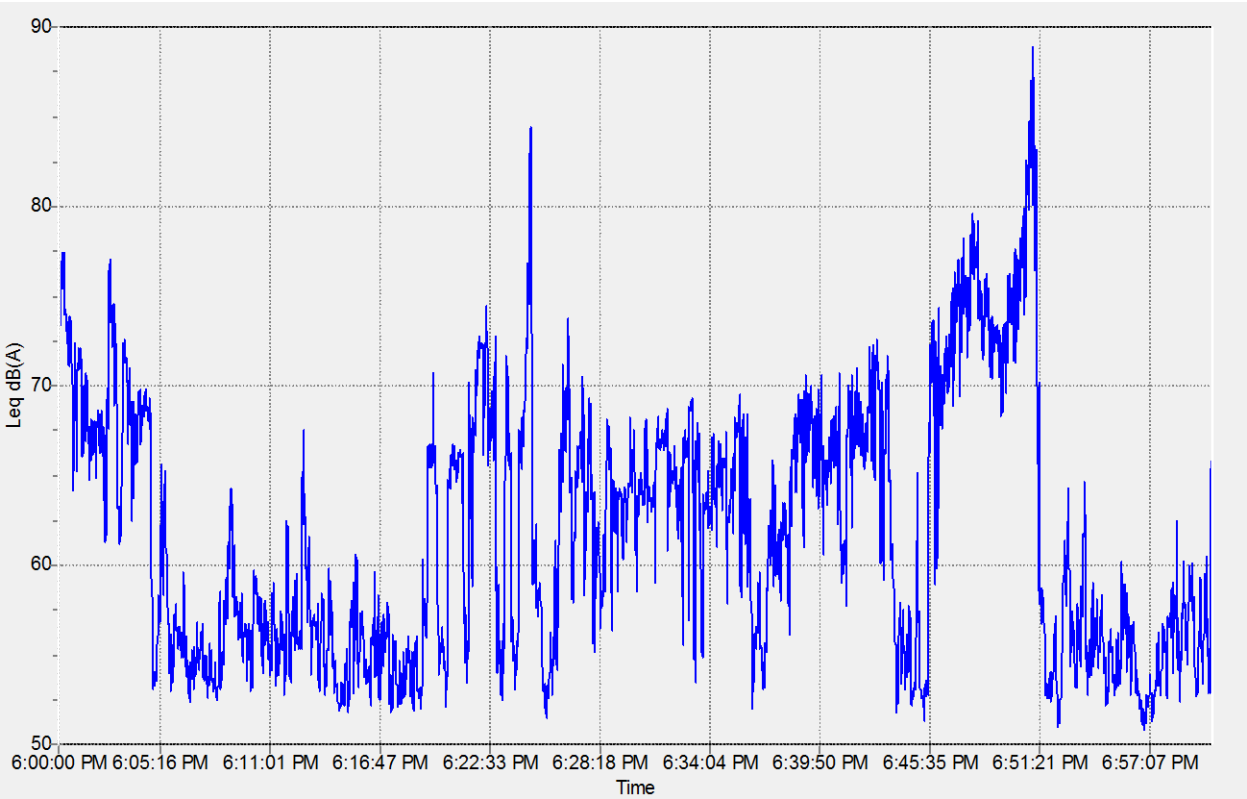
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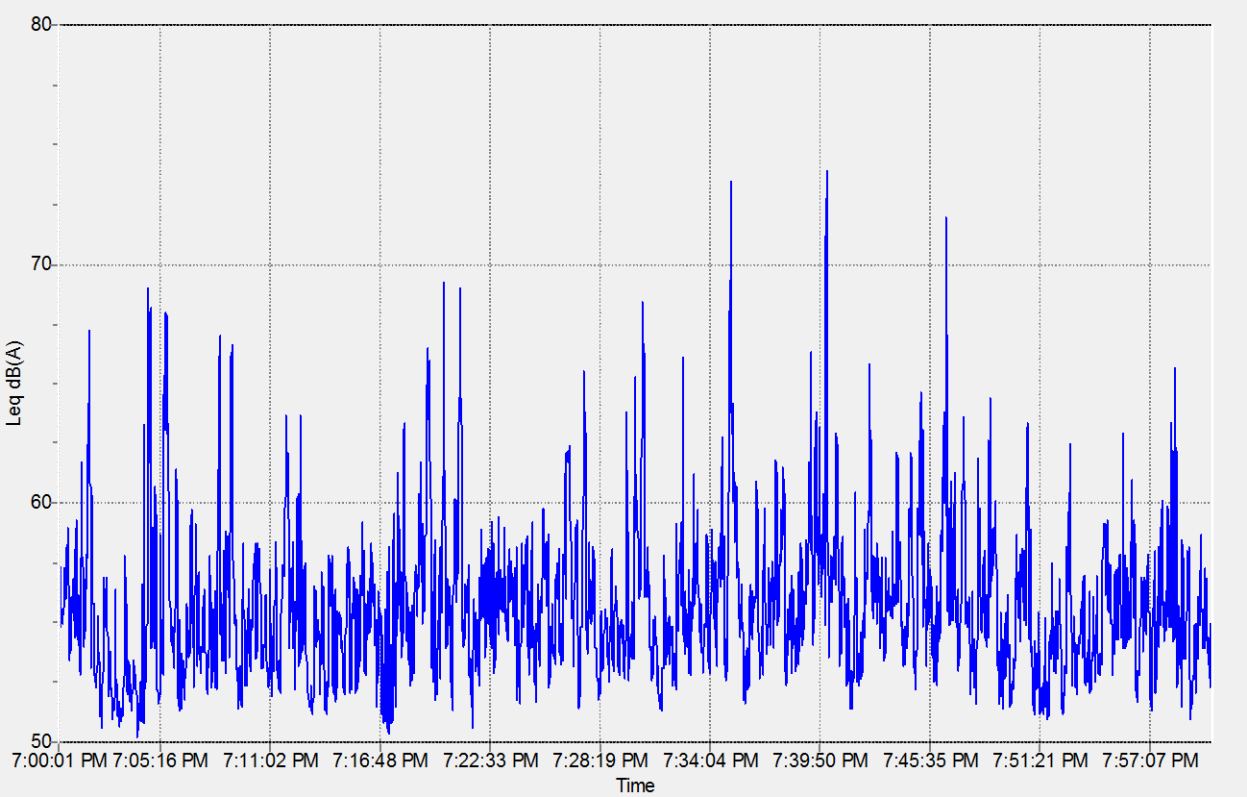
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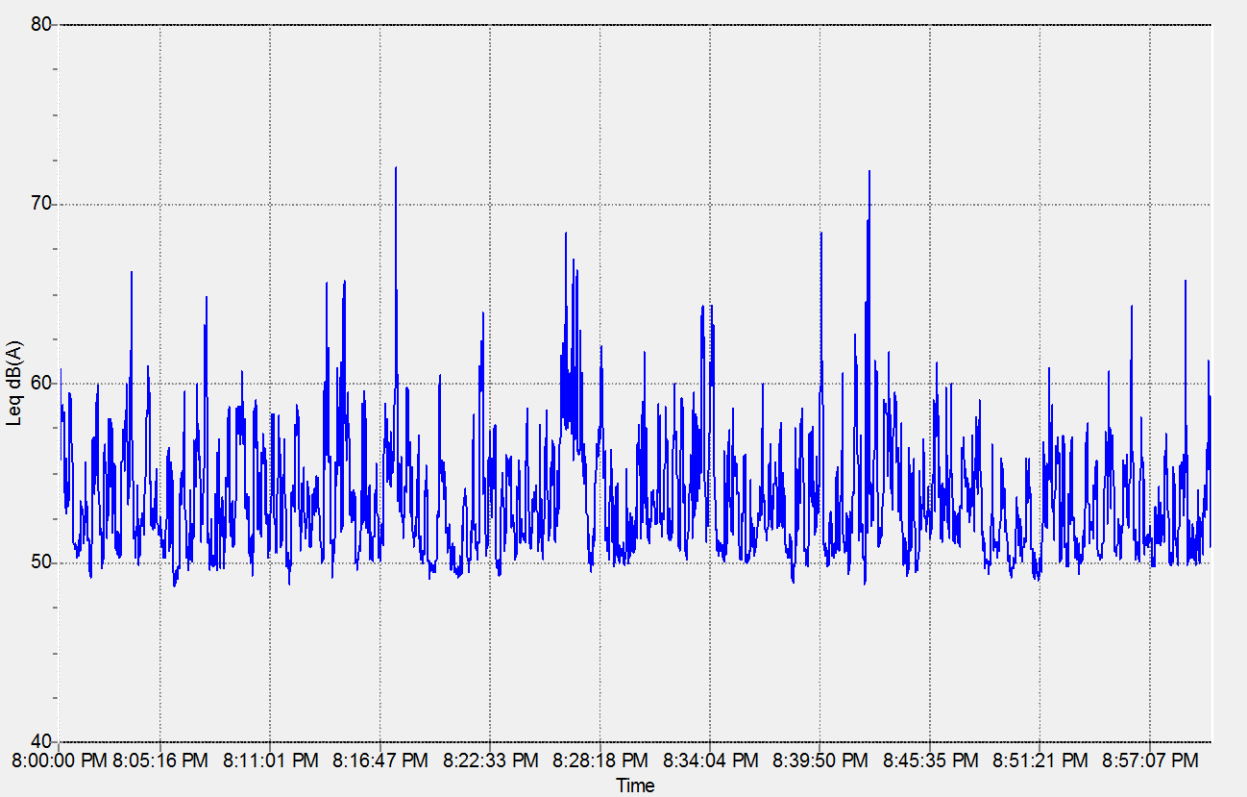
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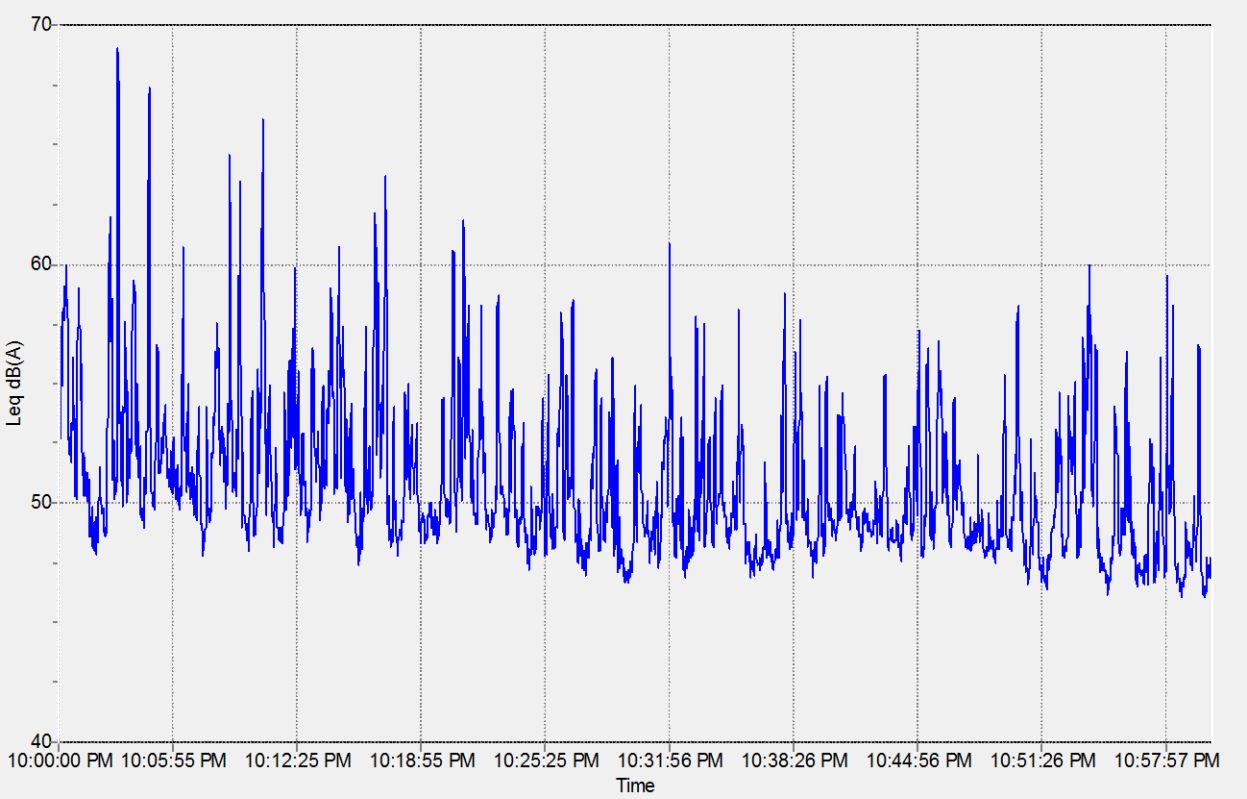
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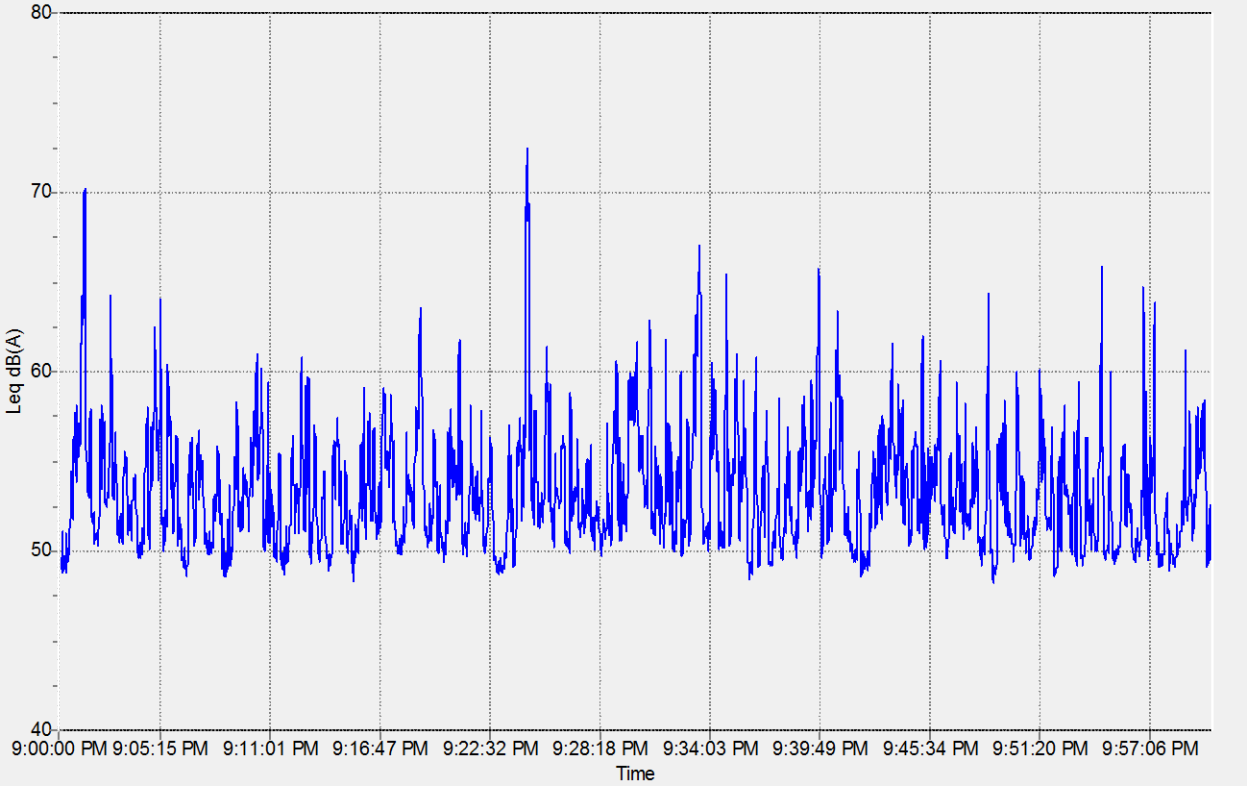
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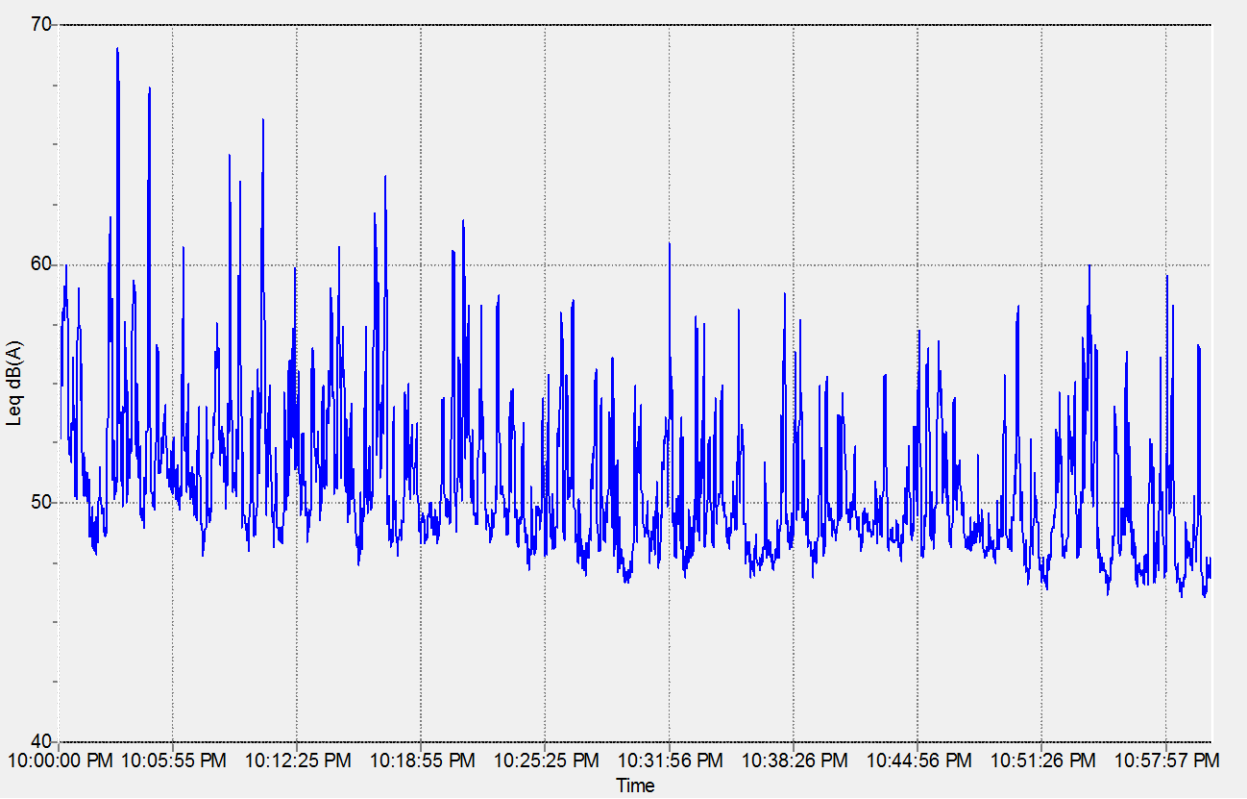
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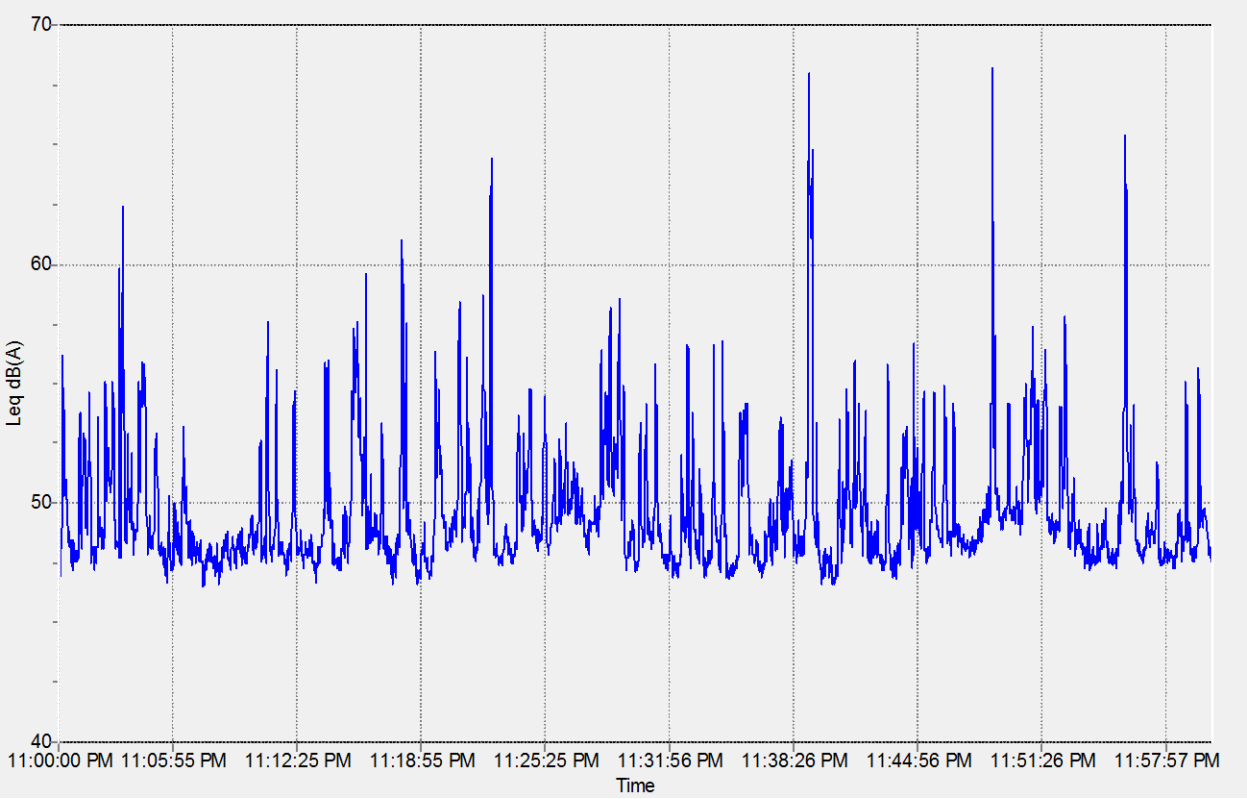
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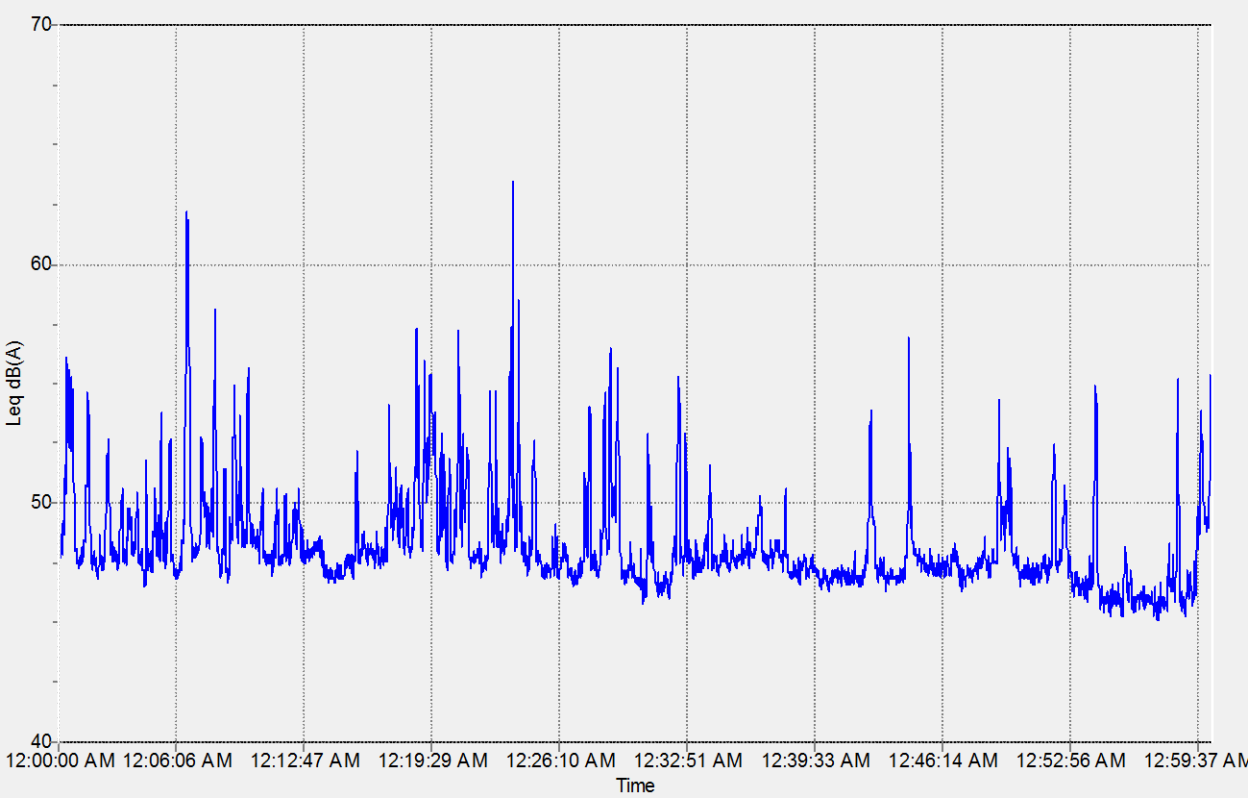
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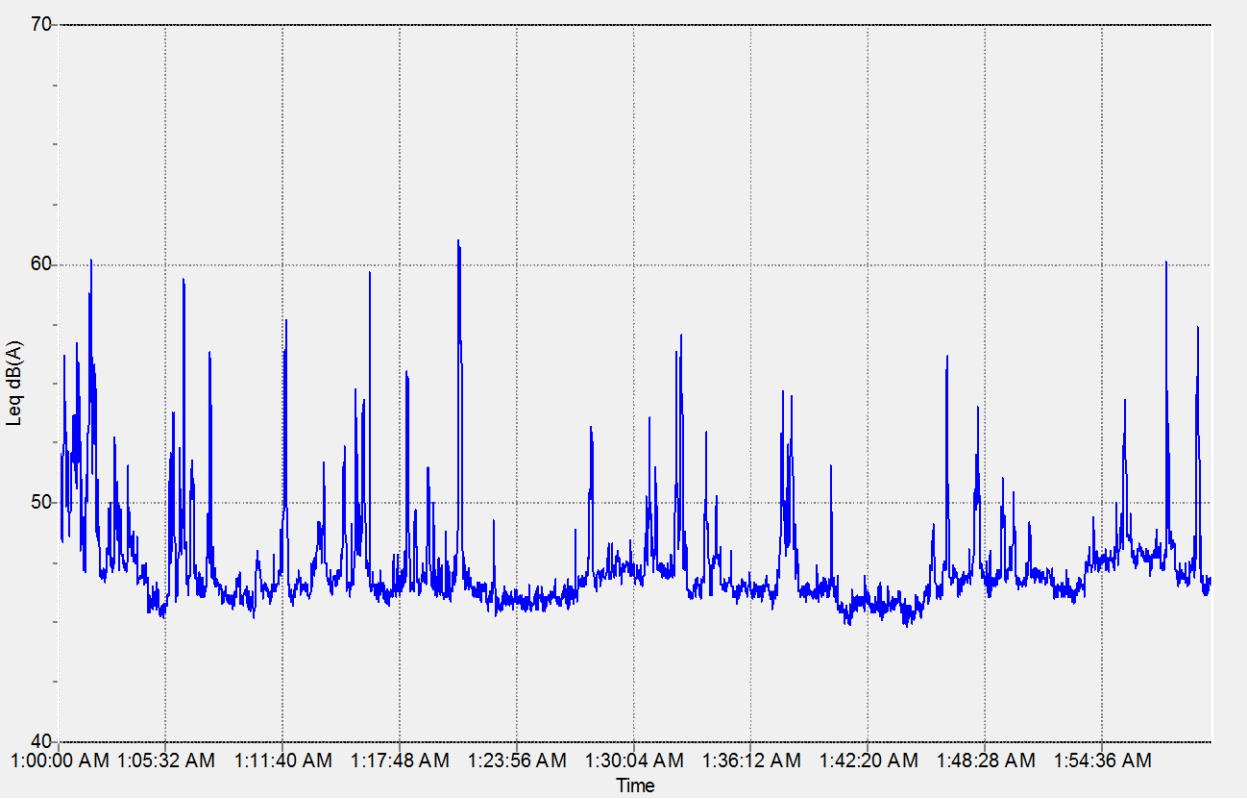
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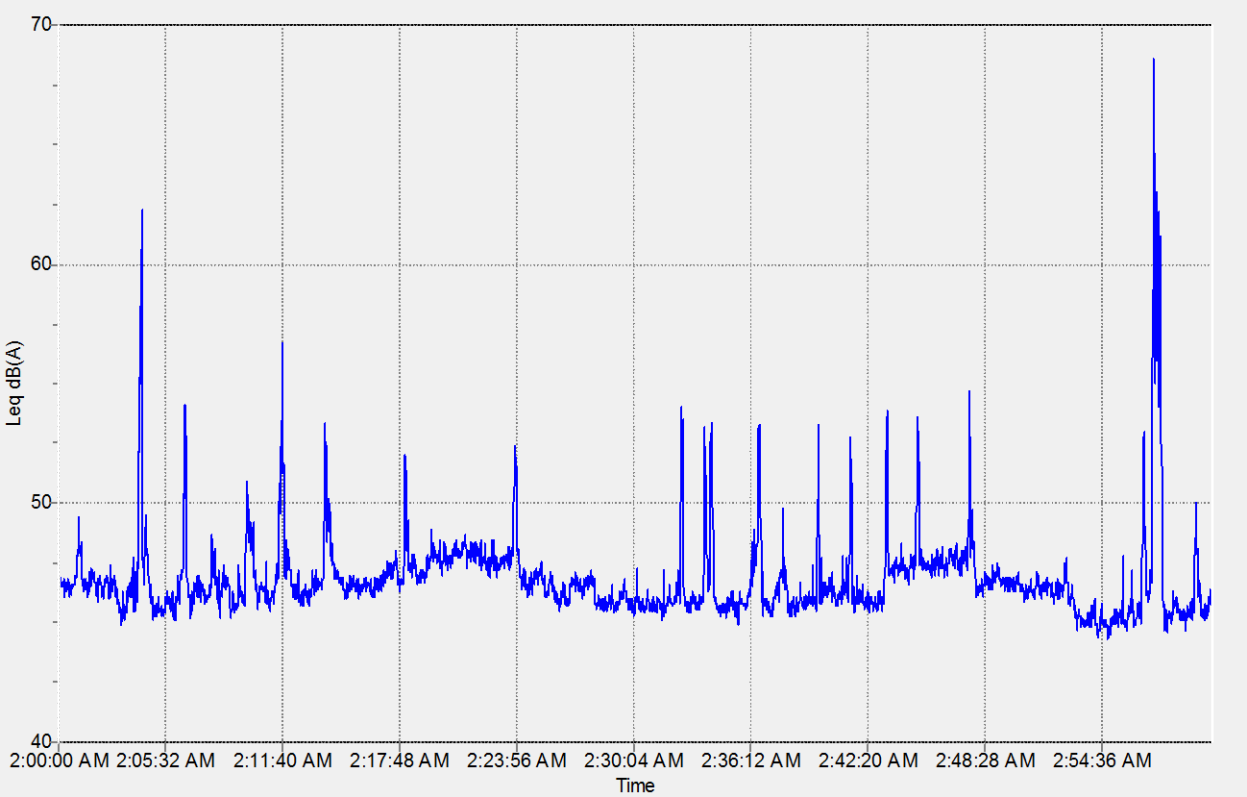
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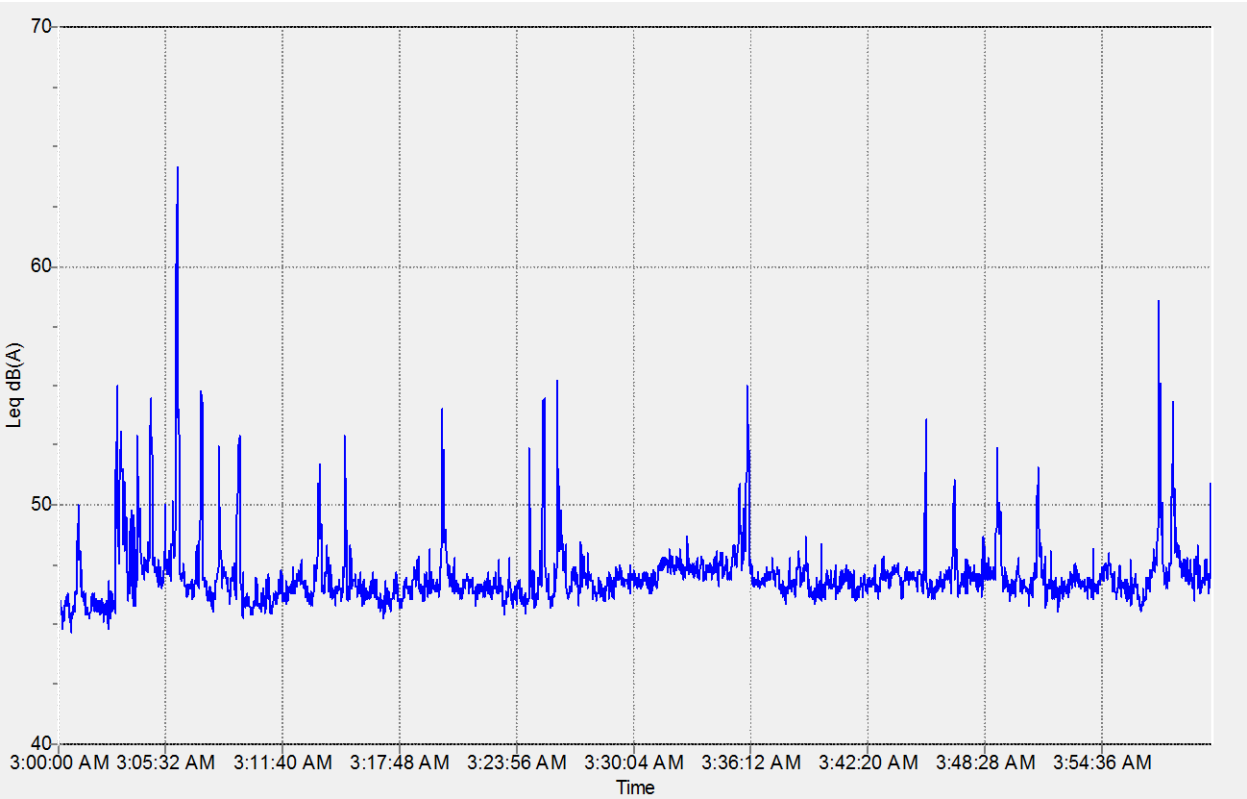
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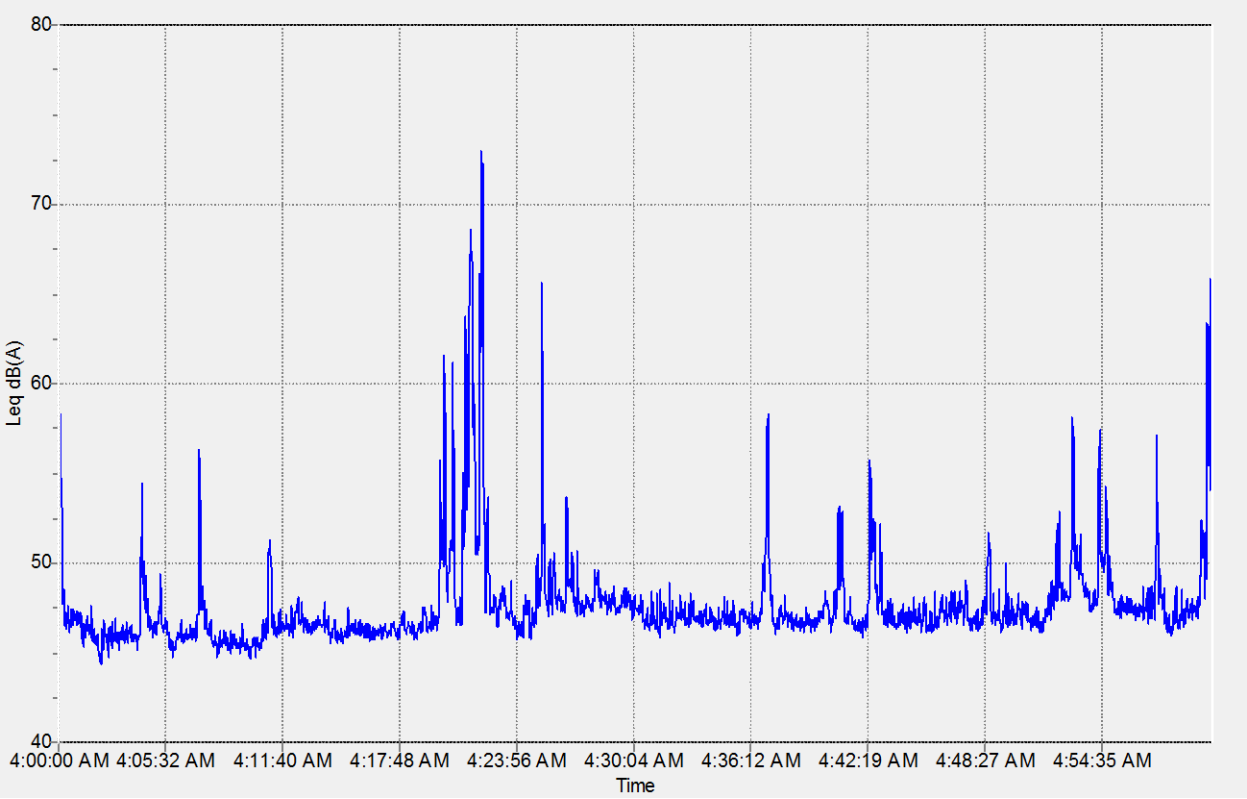
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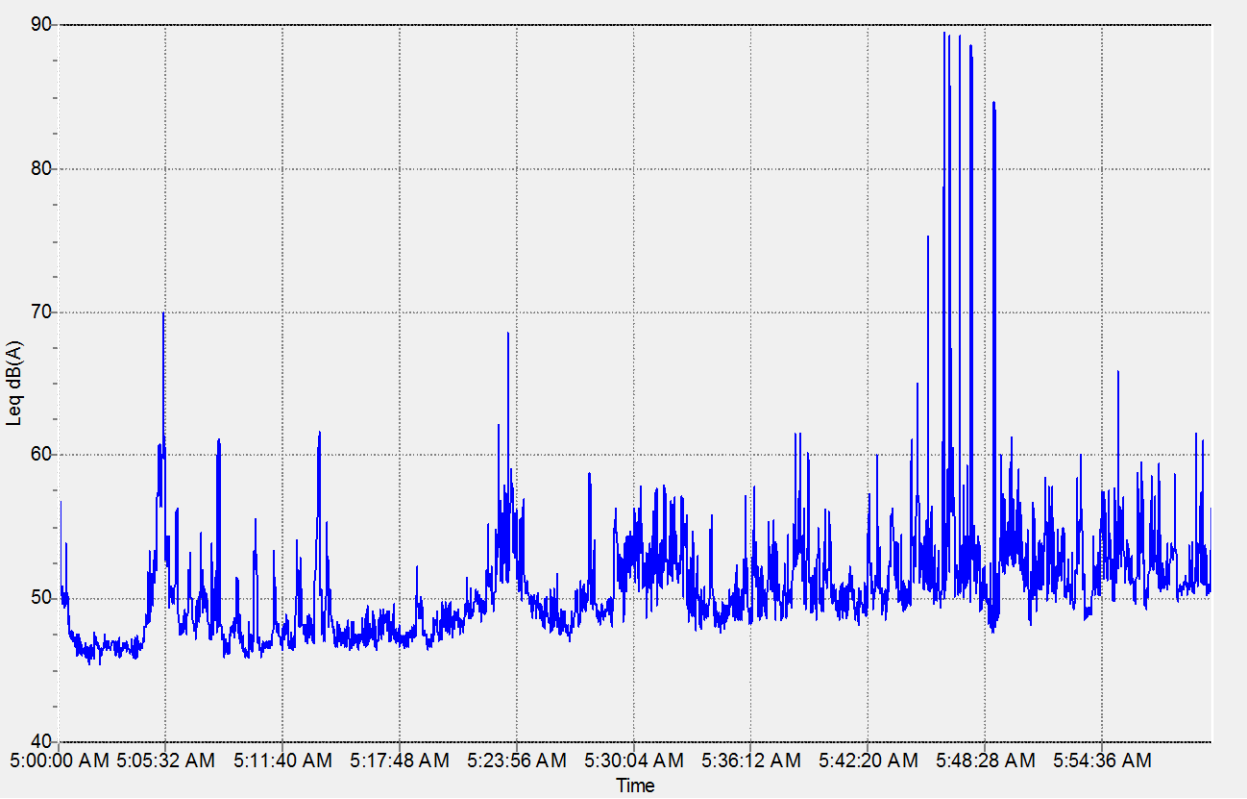
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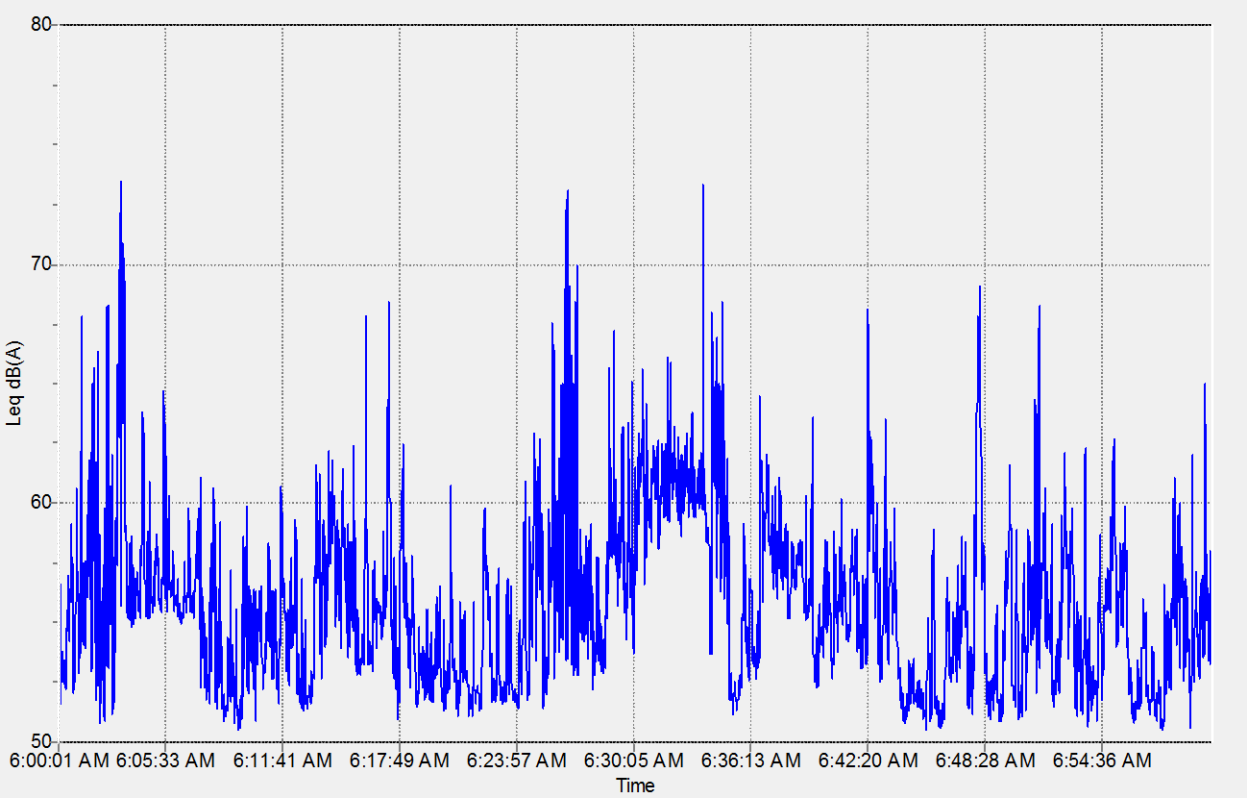
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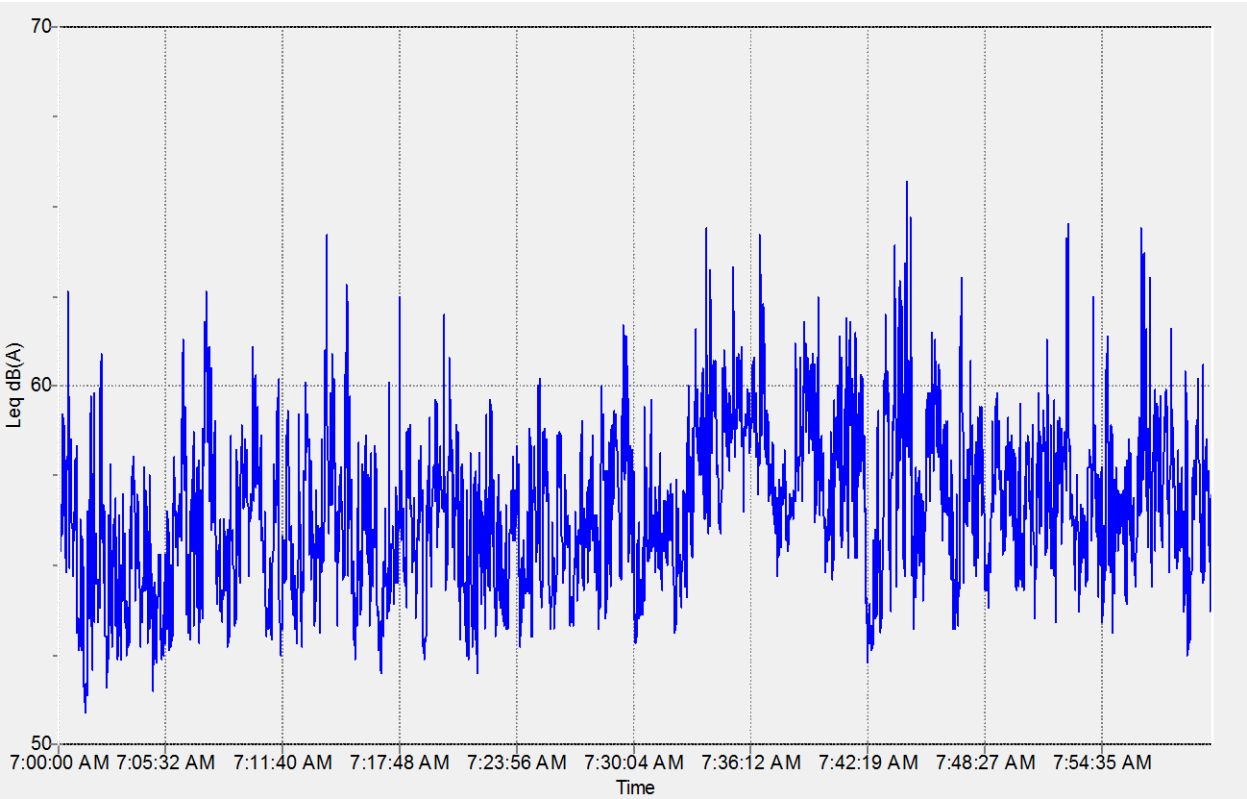
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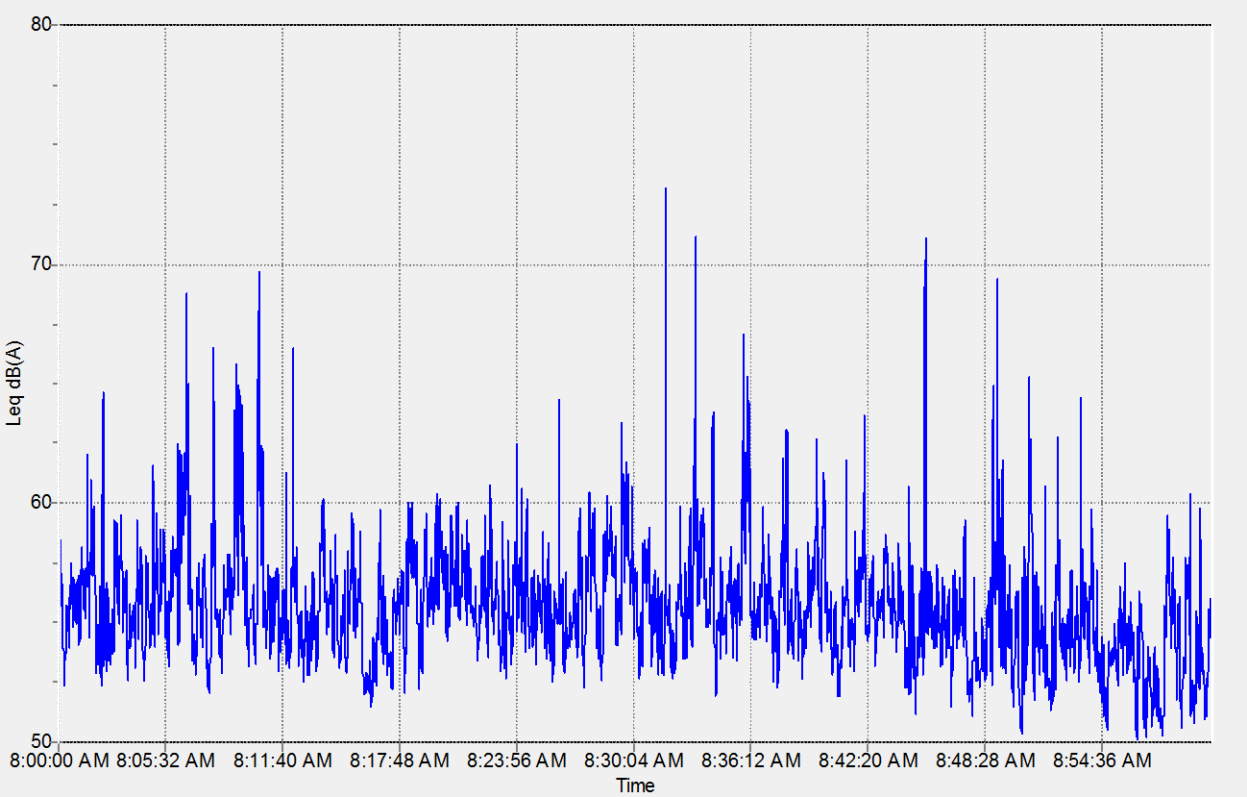
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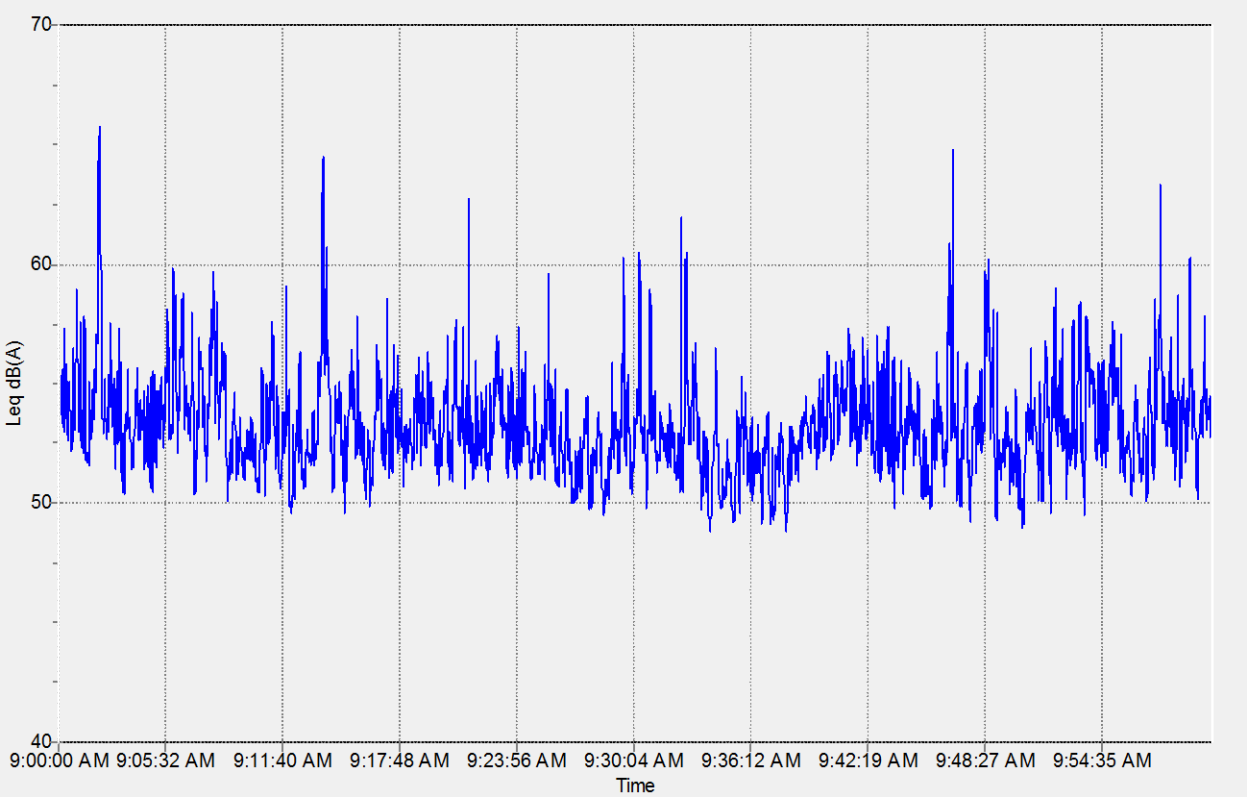
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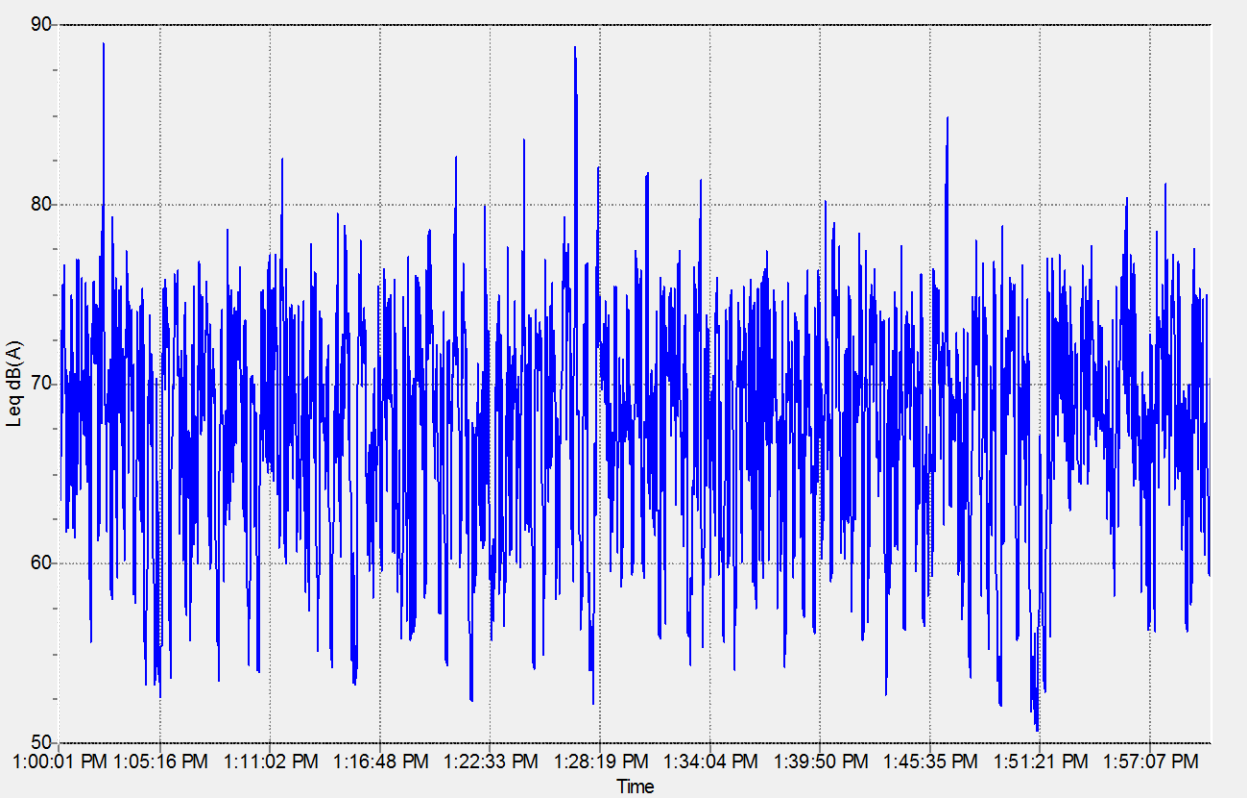
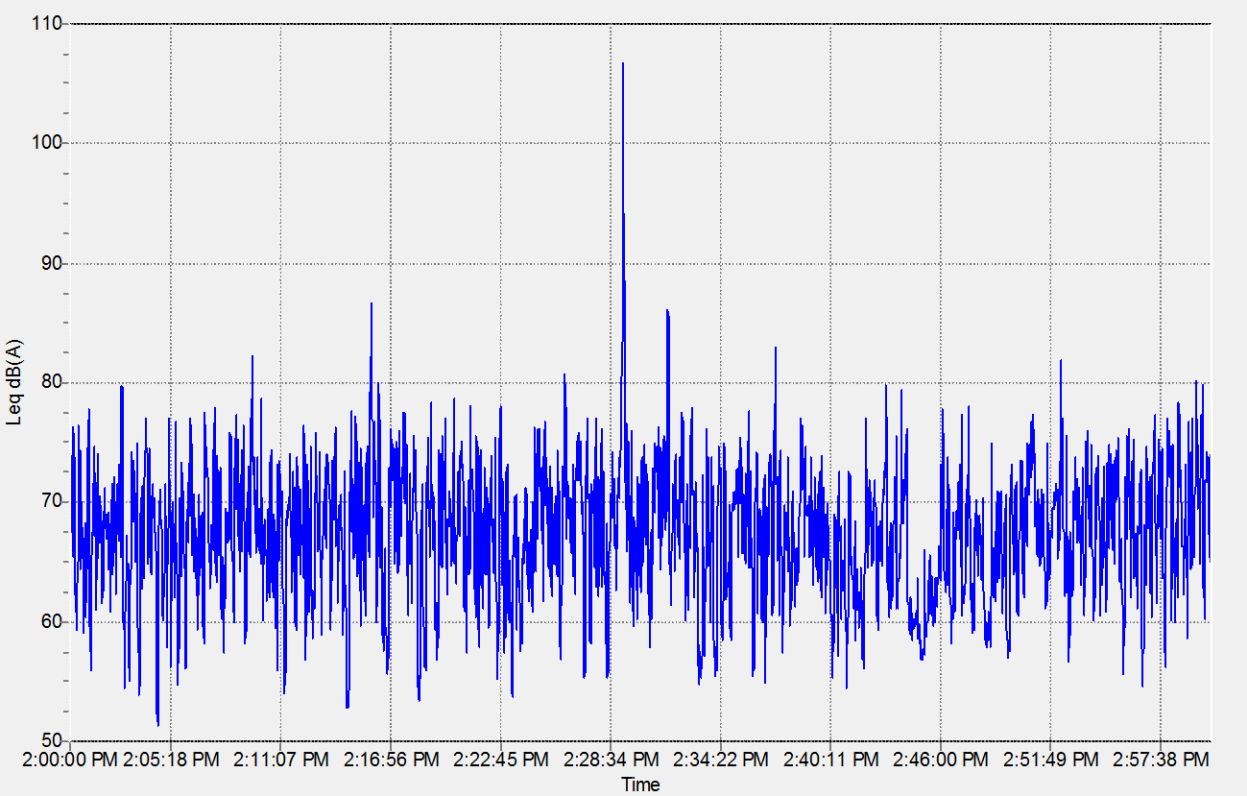
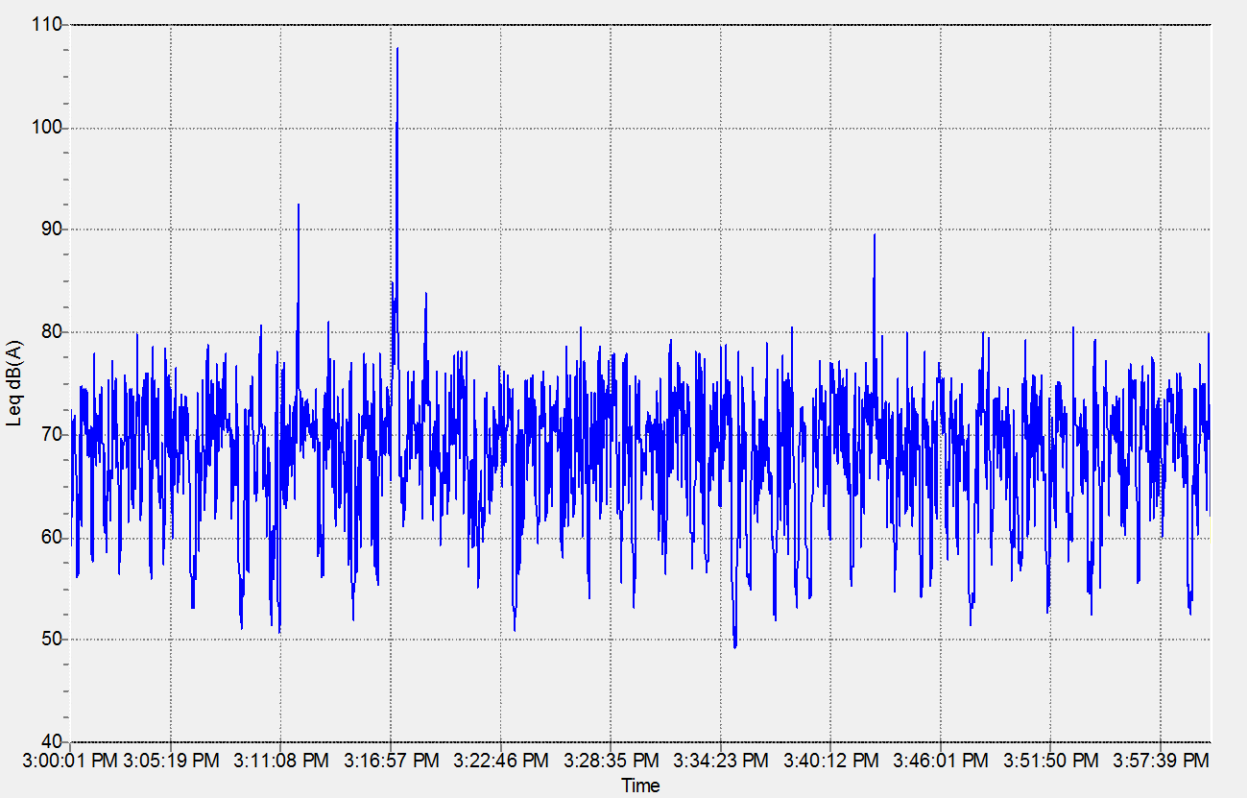
SOUND MONITORING CAYMAN PREP – HOURLY NOISE MEASUREMENTS JUNE 20 - 21



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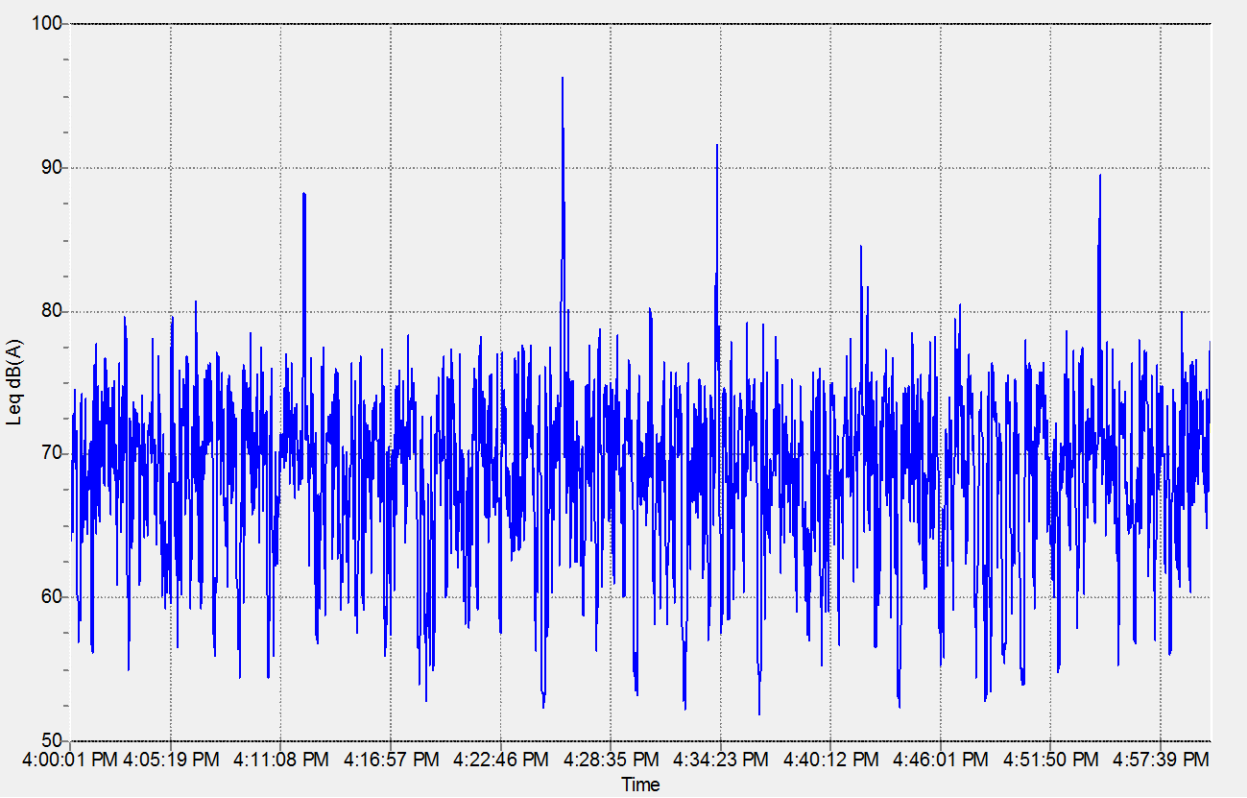
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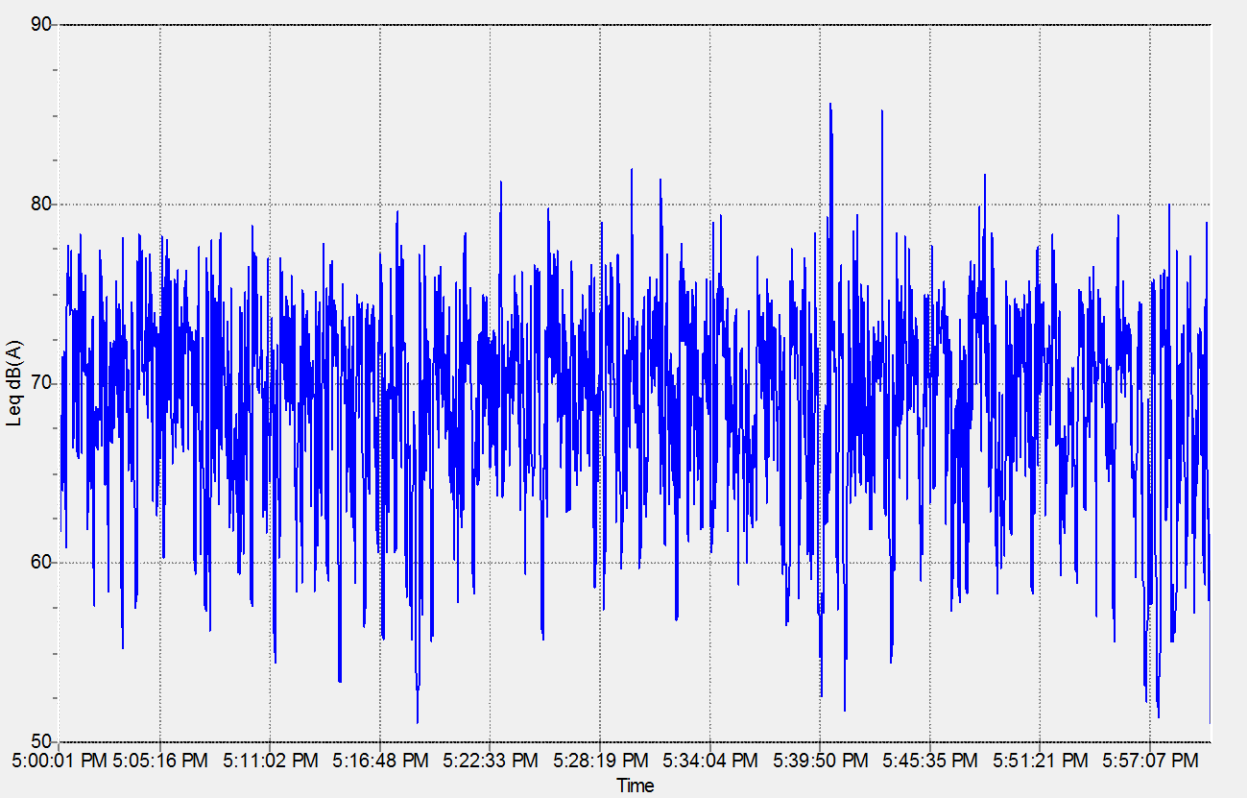
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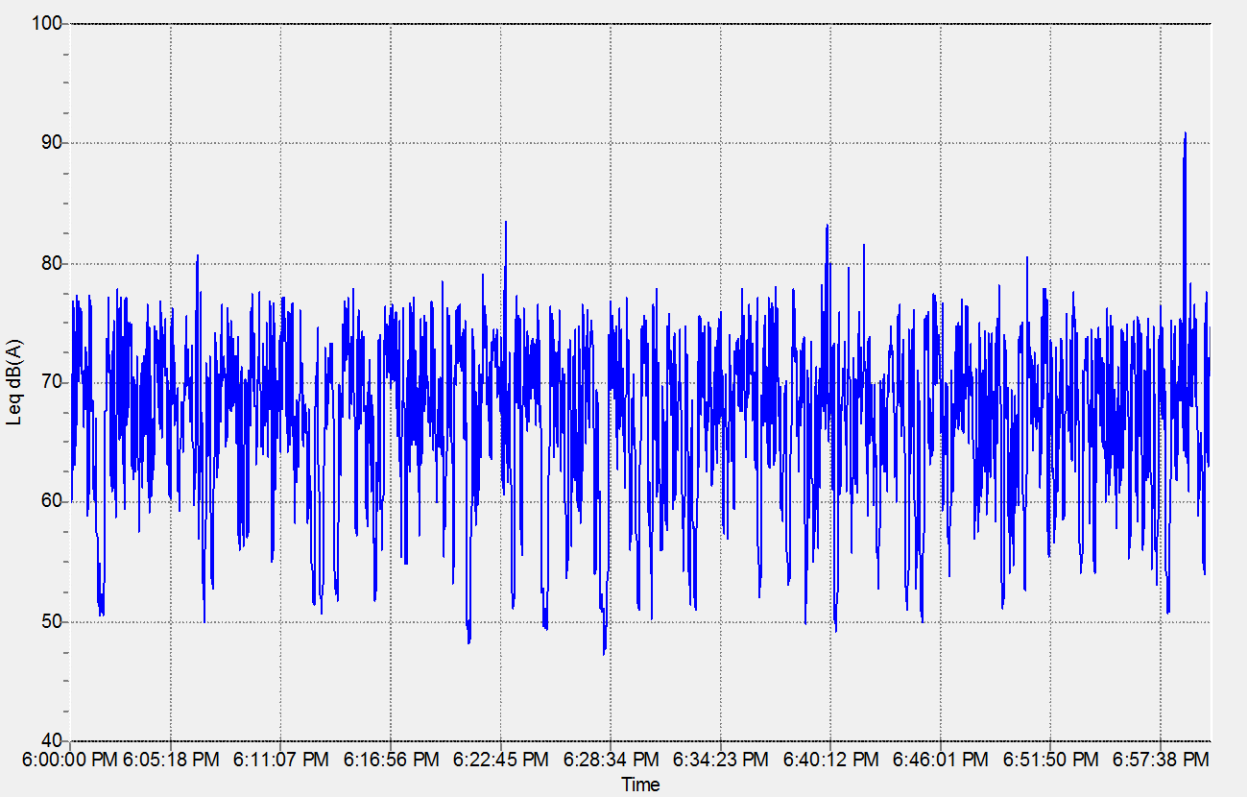
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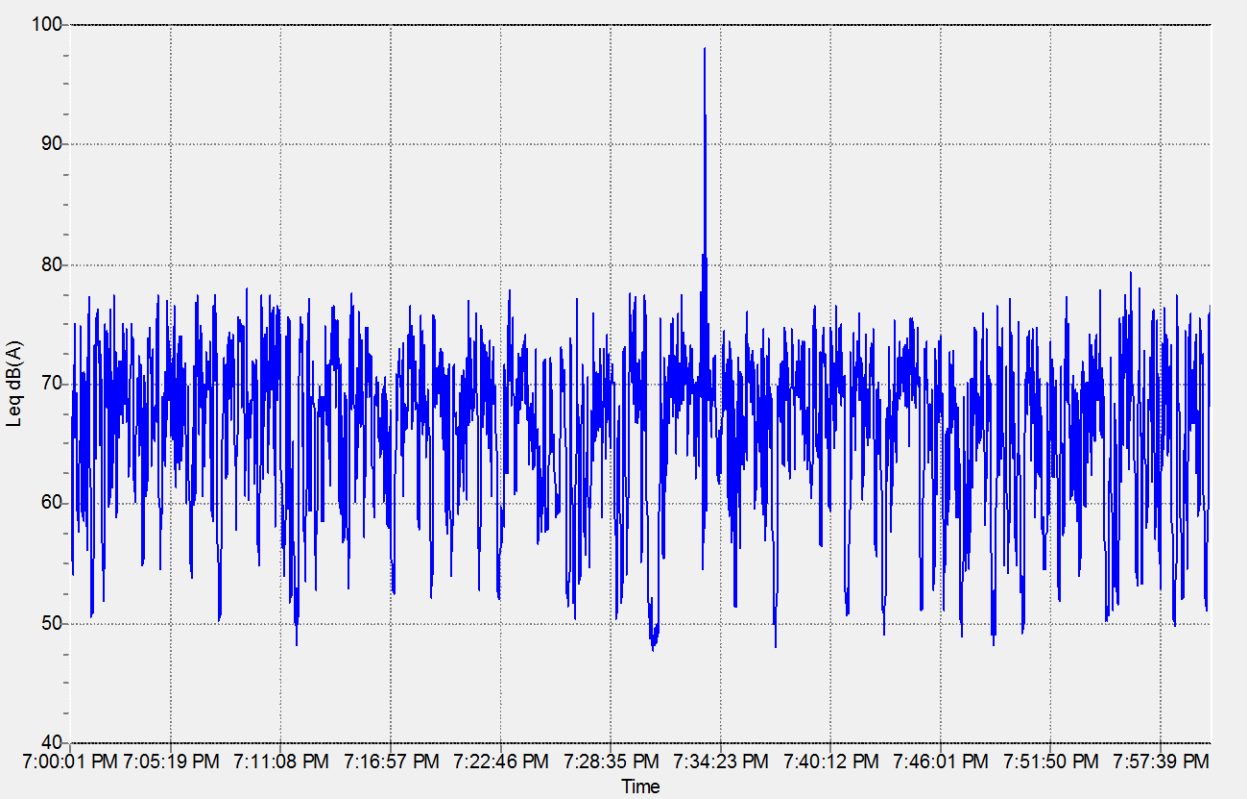
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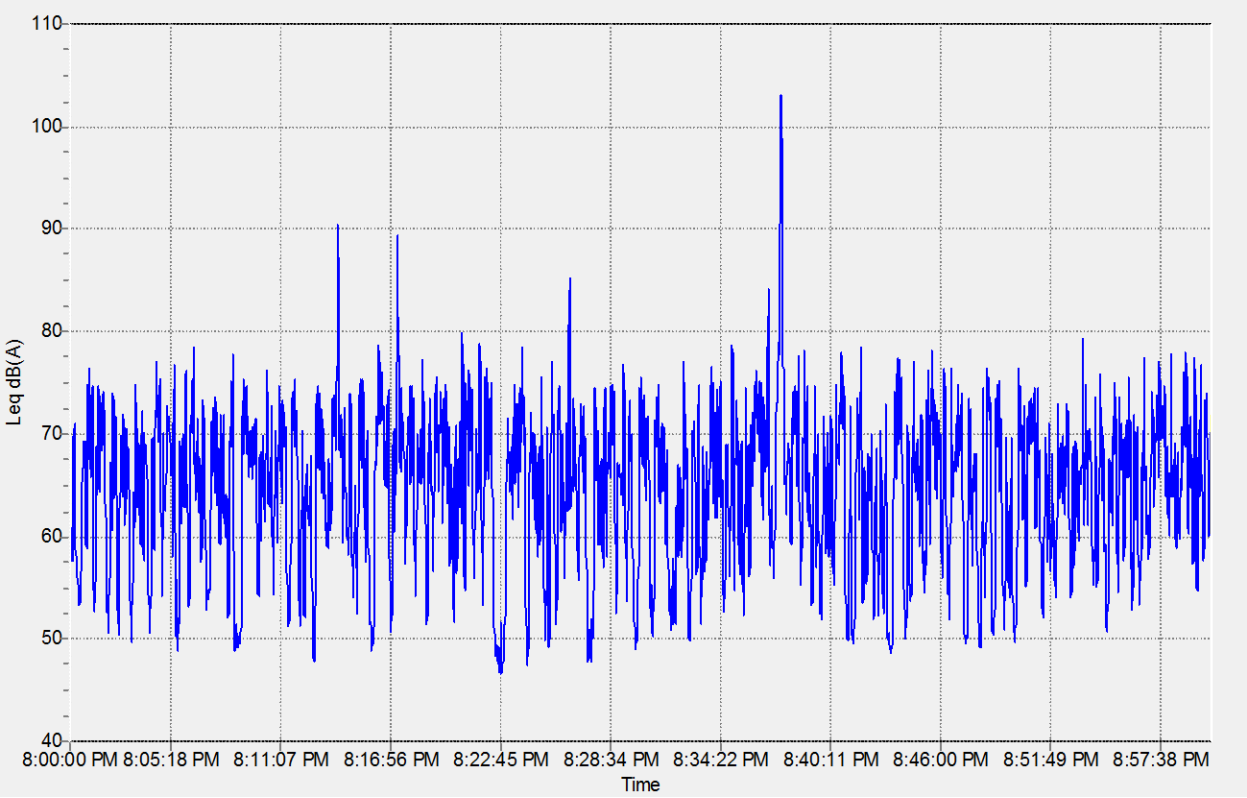
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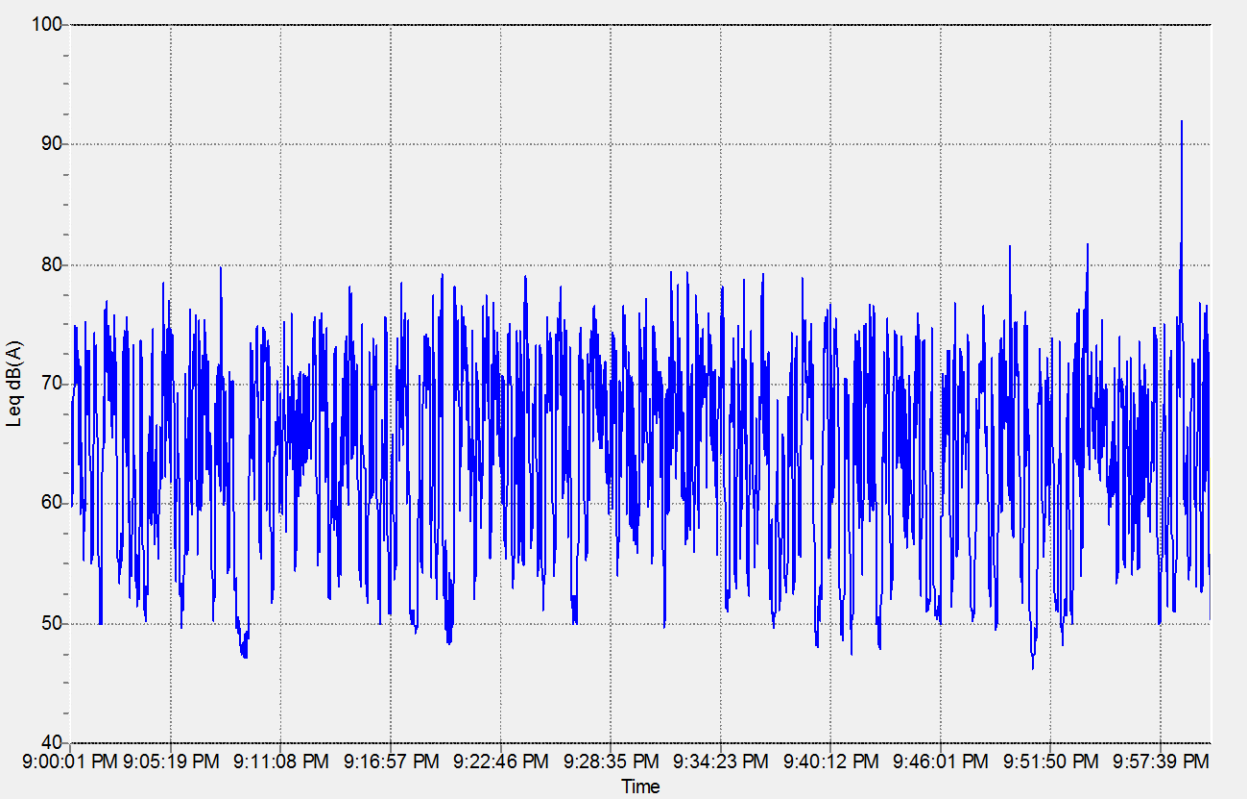
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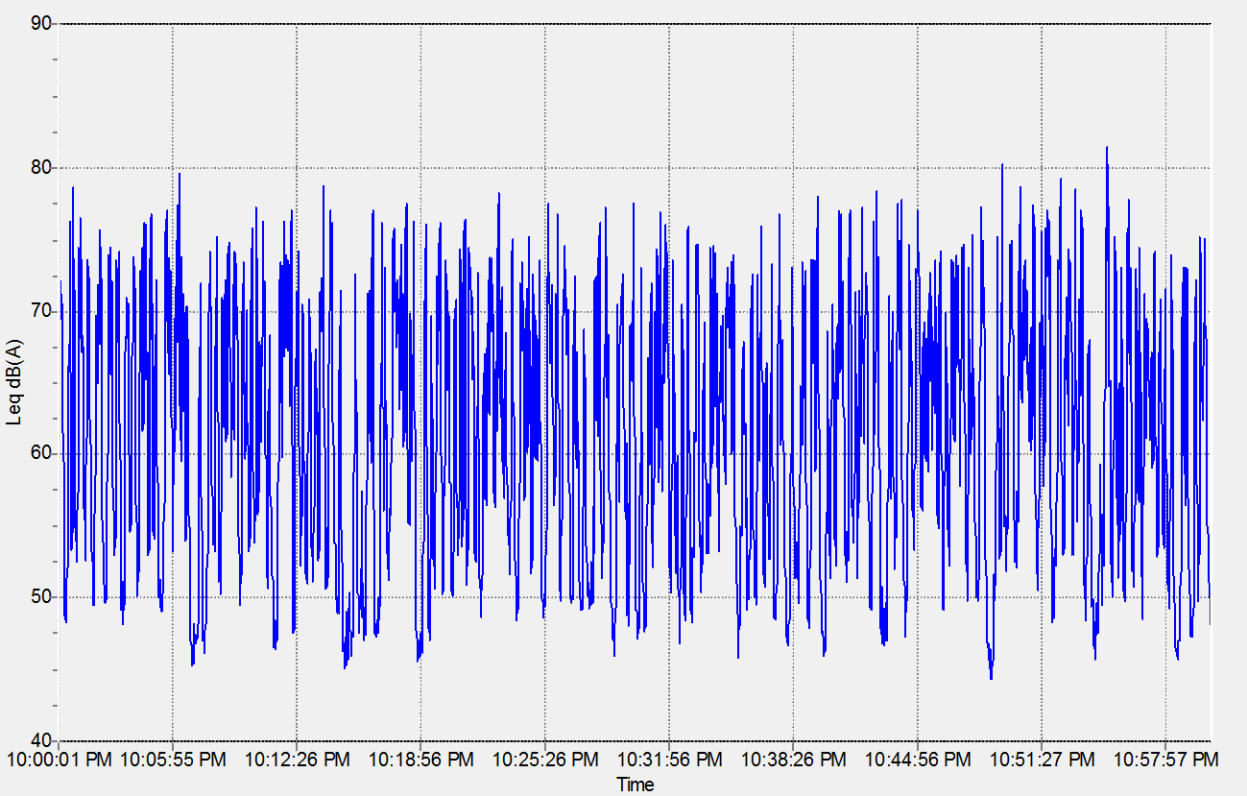
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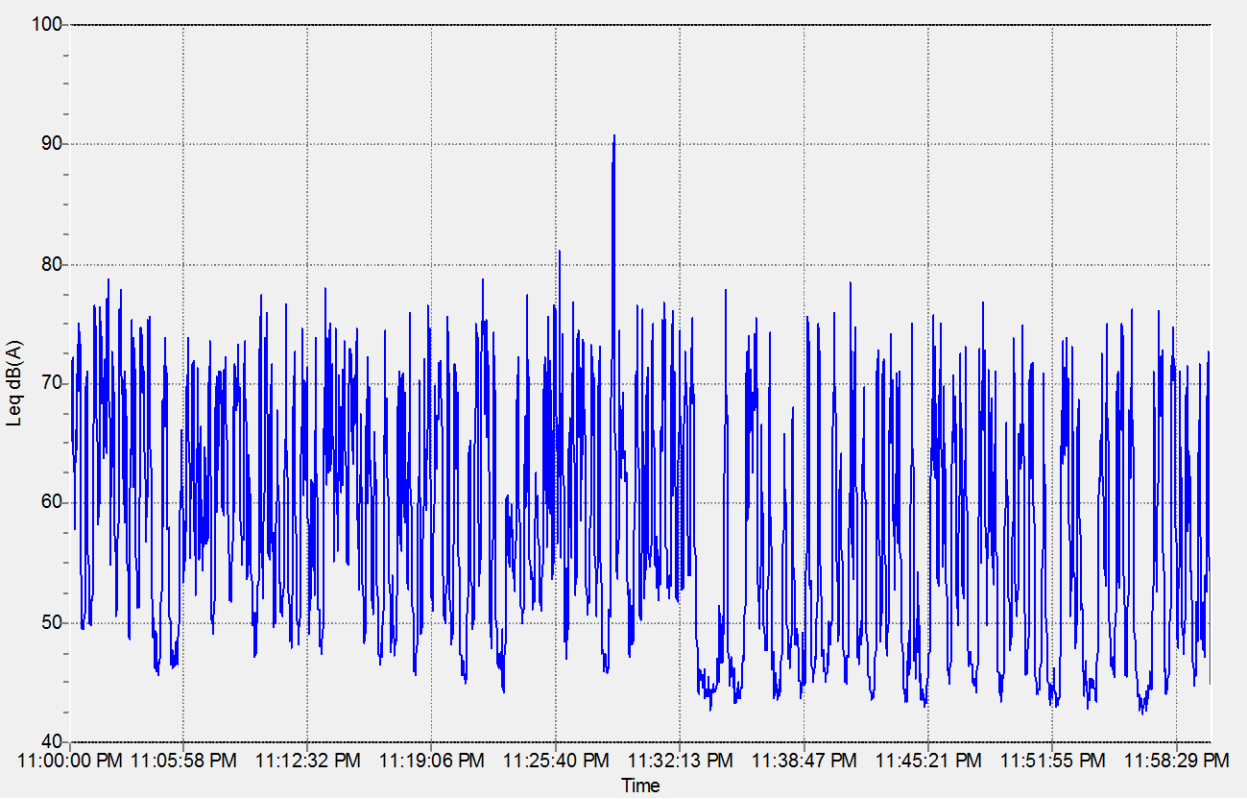
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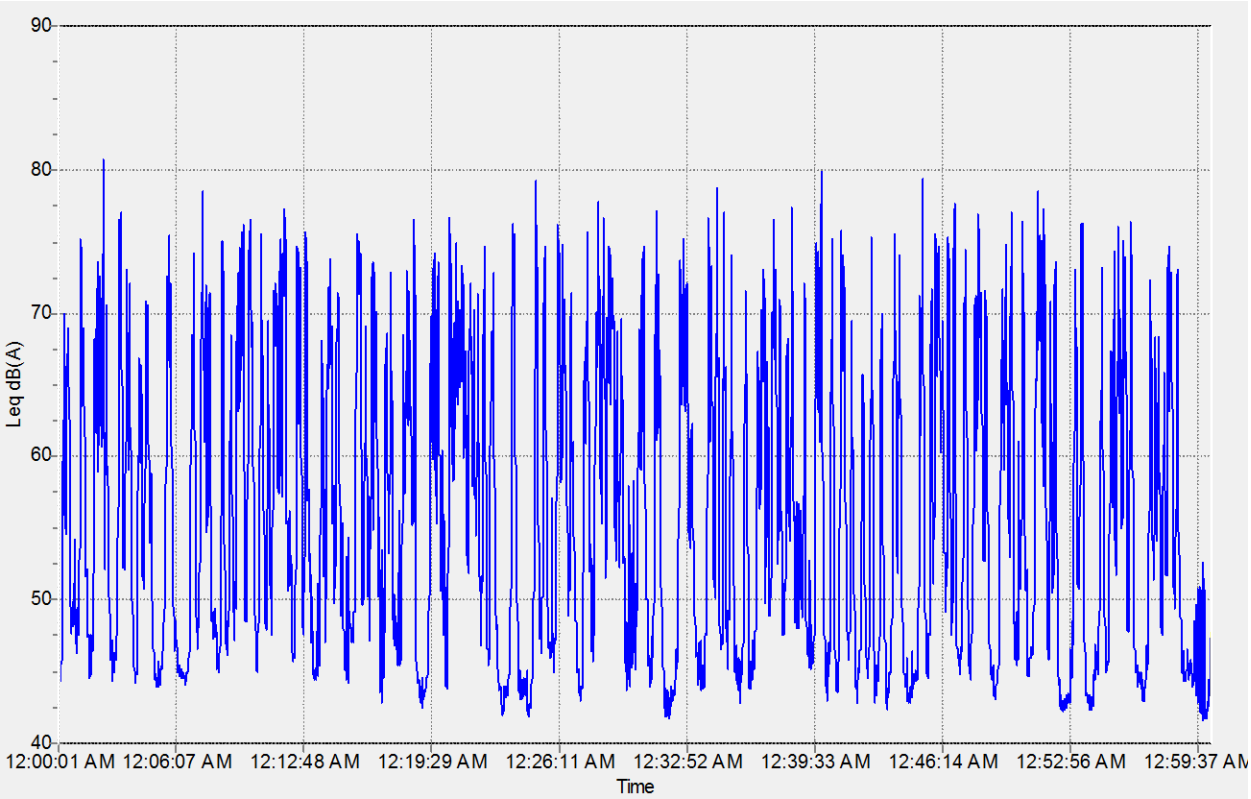
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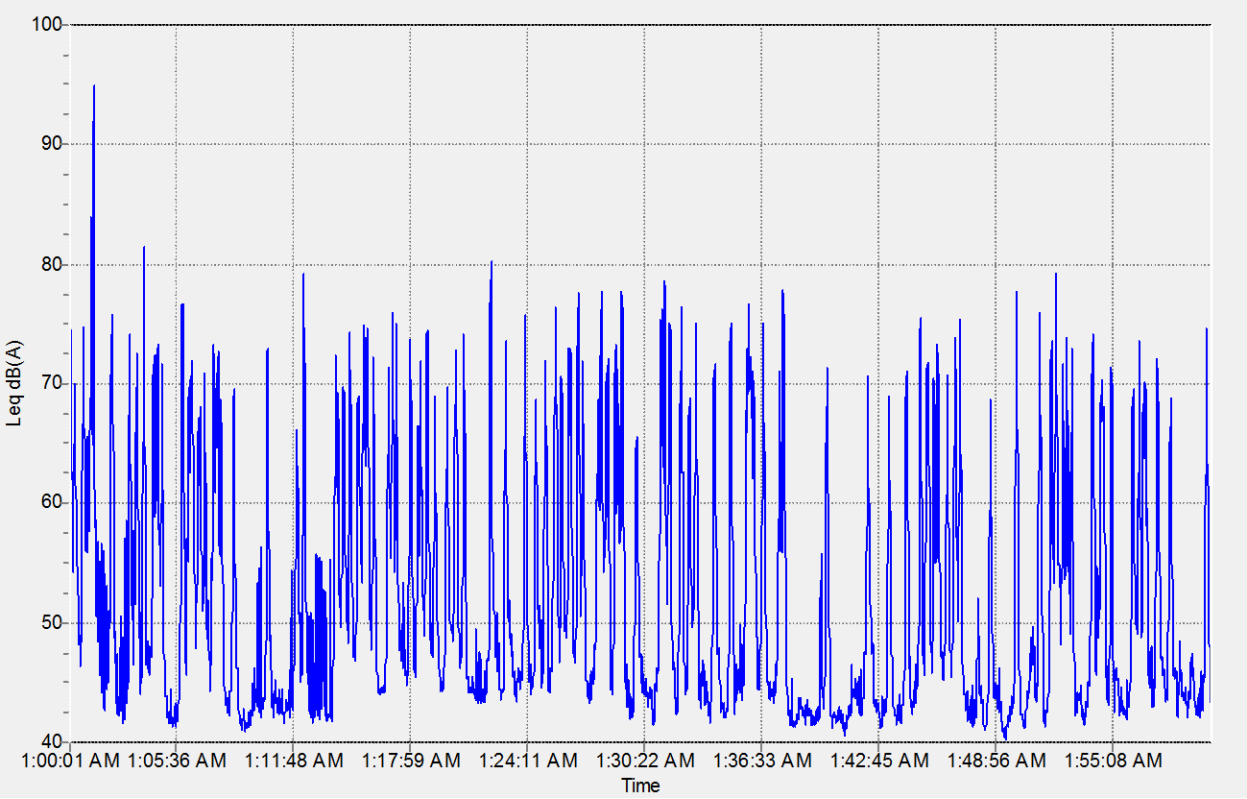
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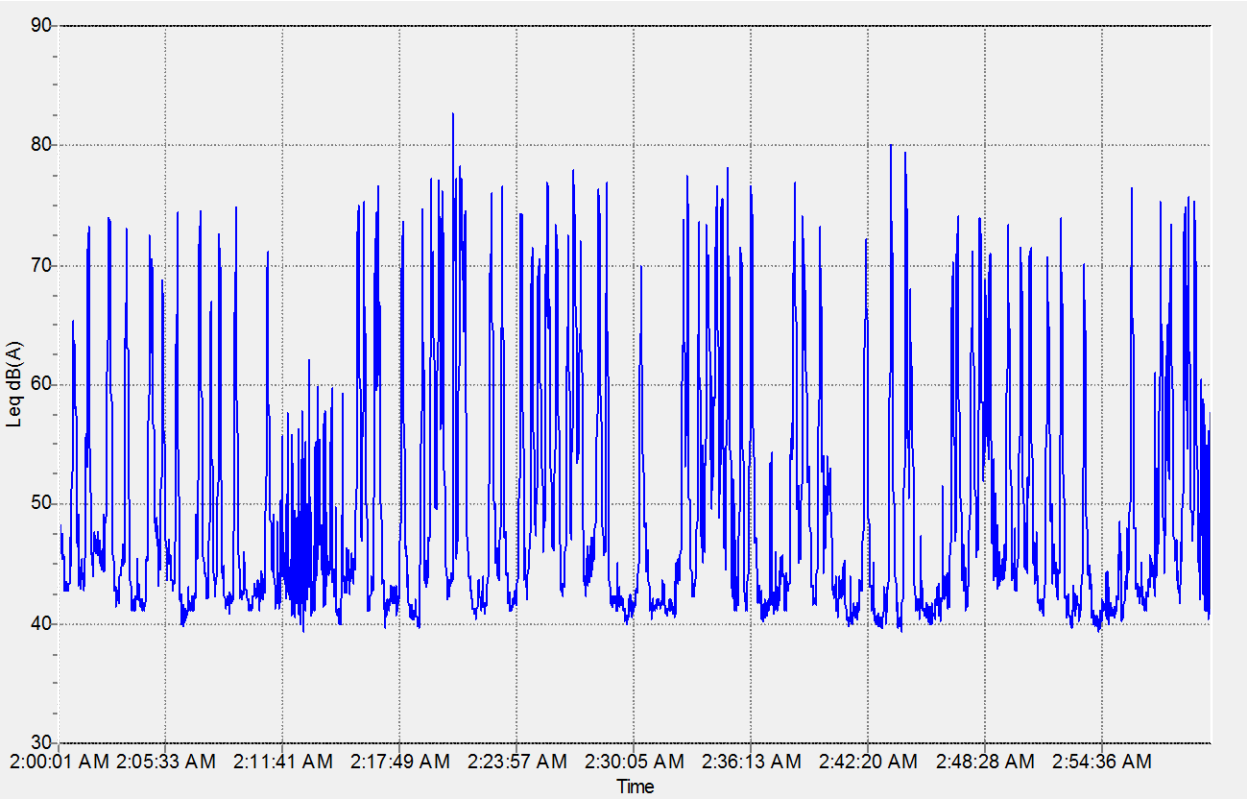
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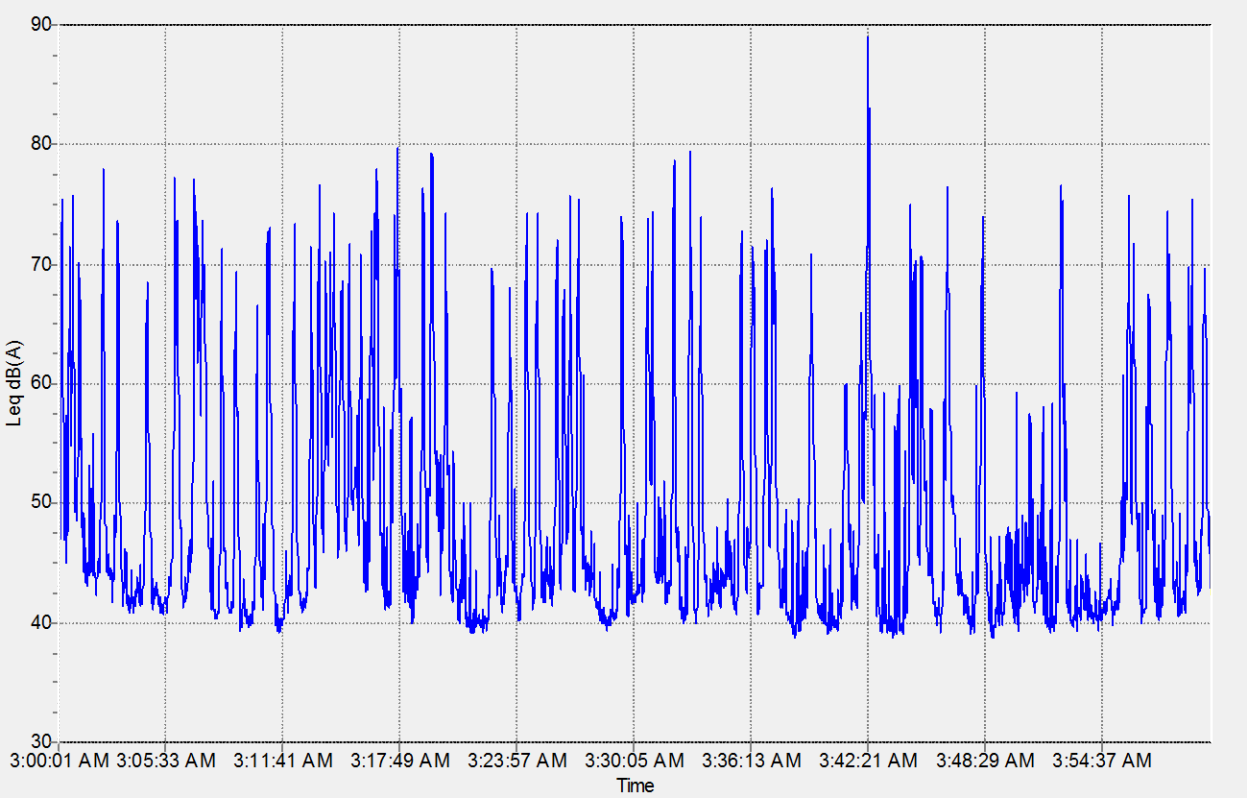
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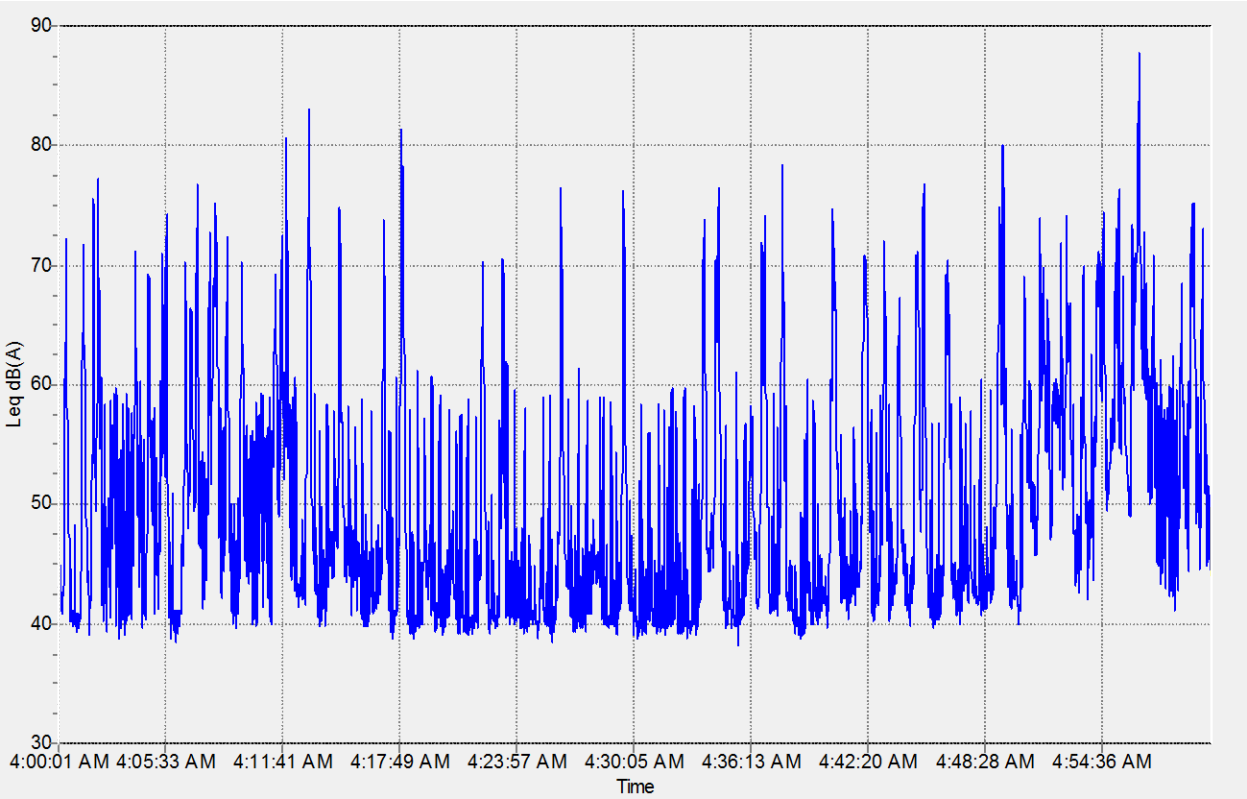
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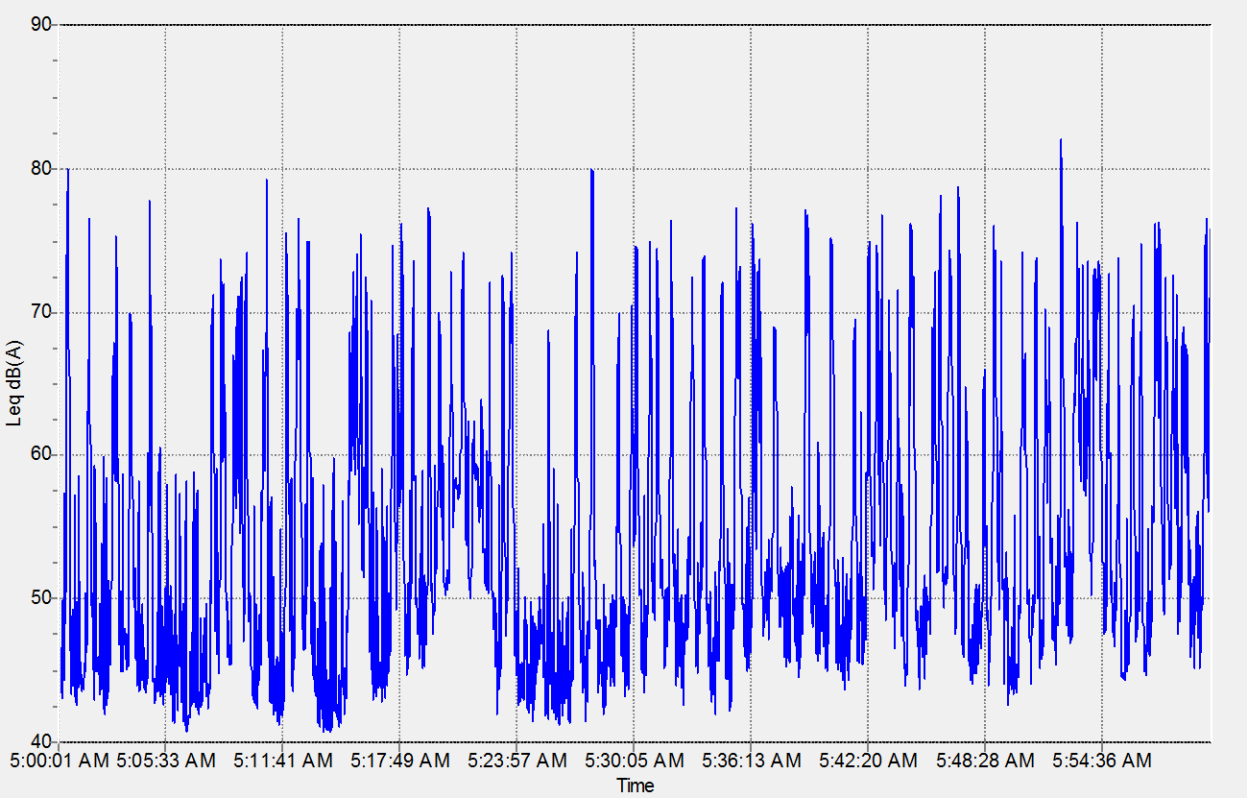
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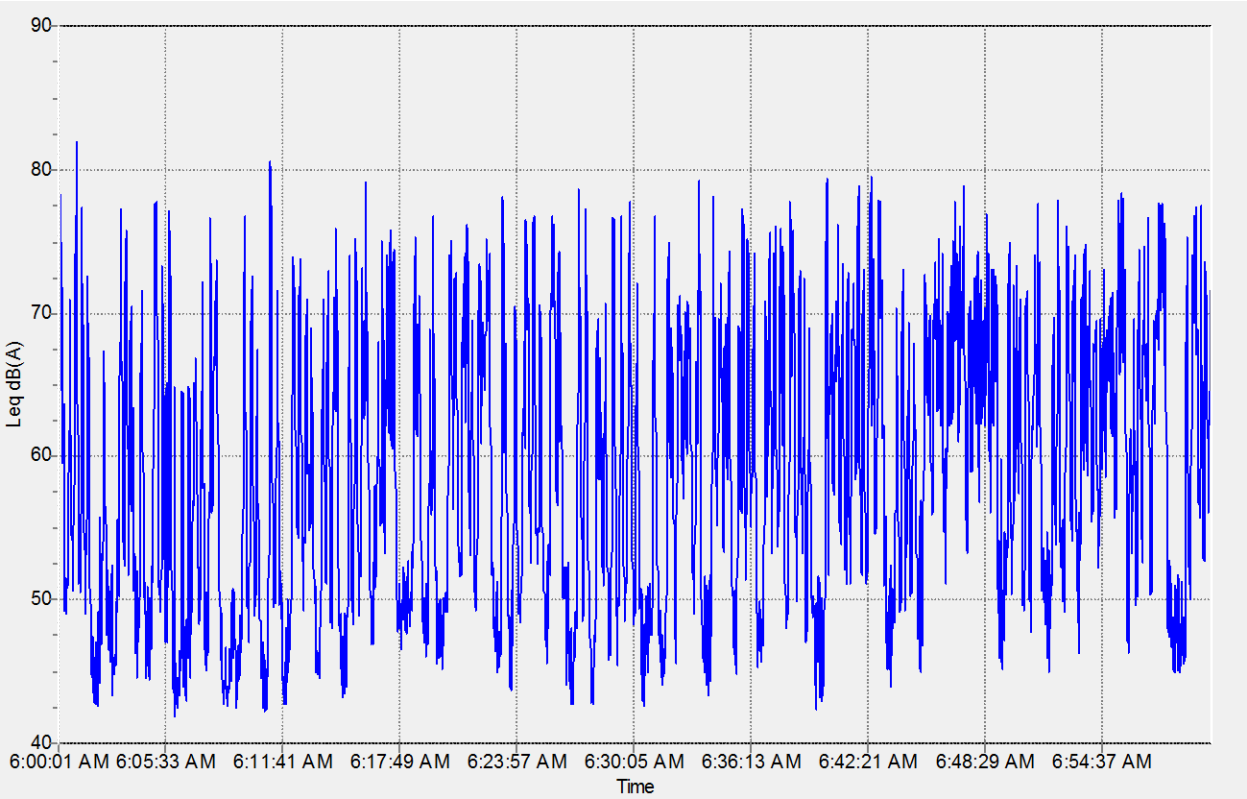
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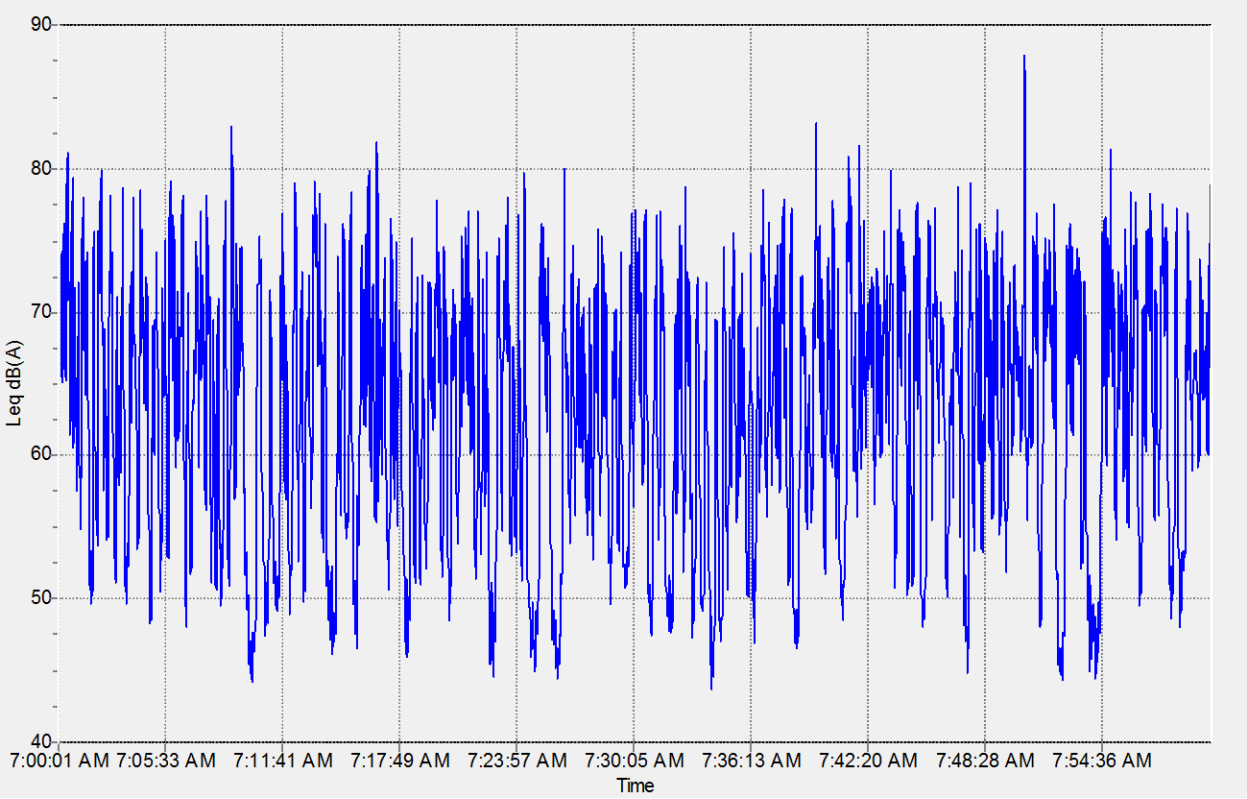
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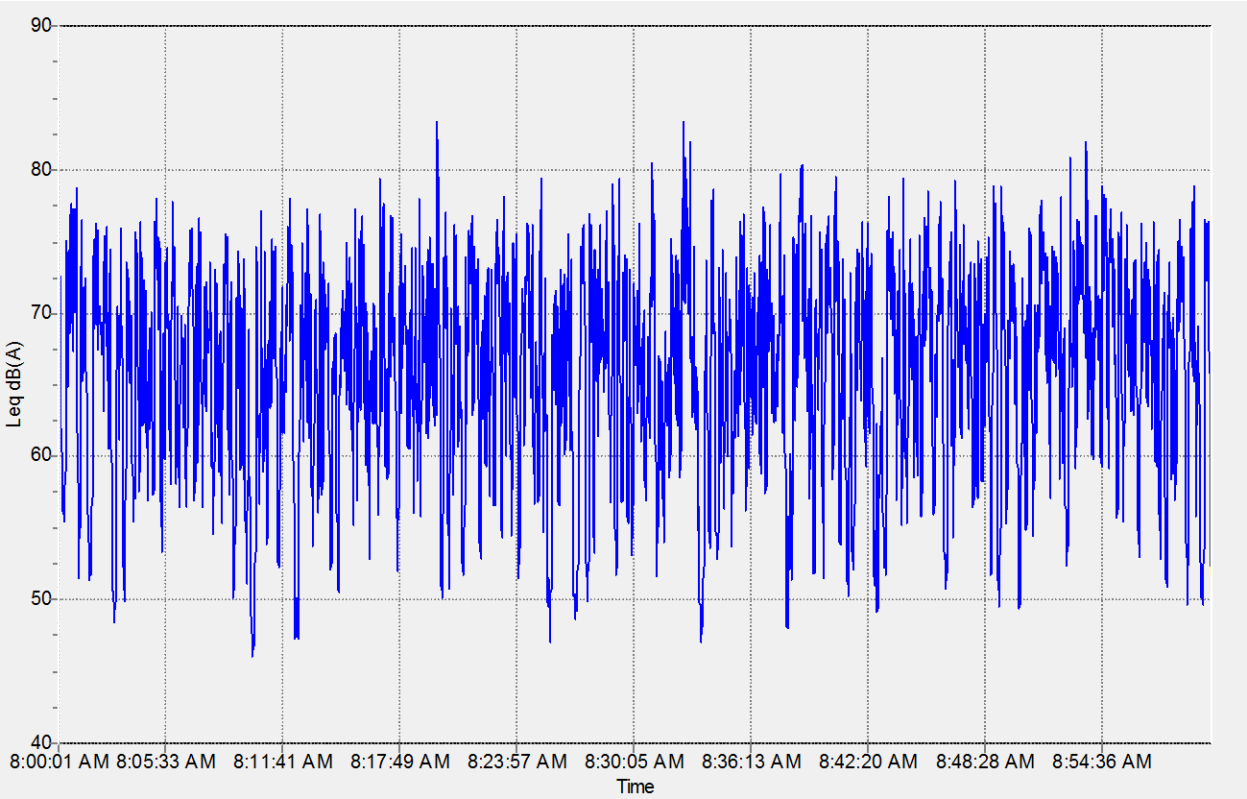
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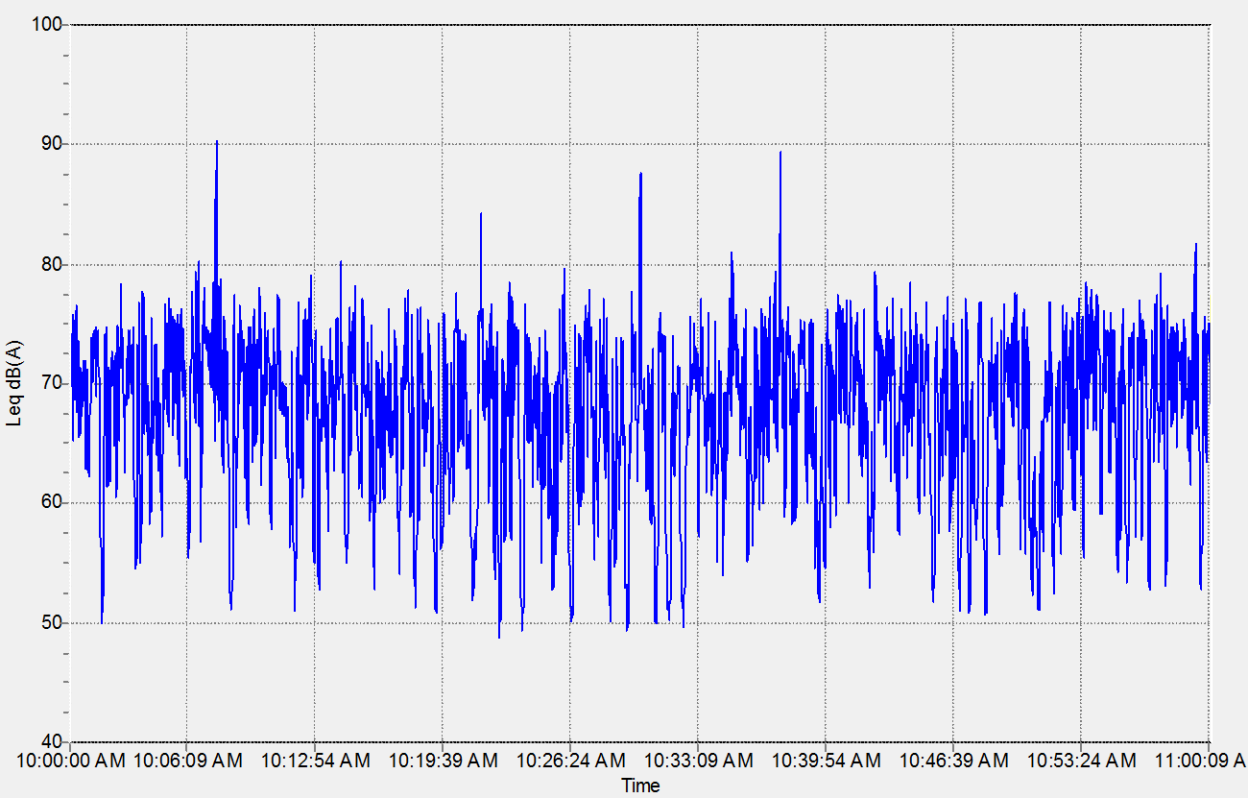
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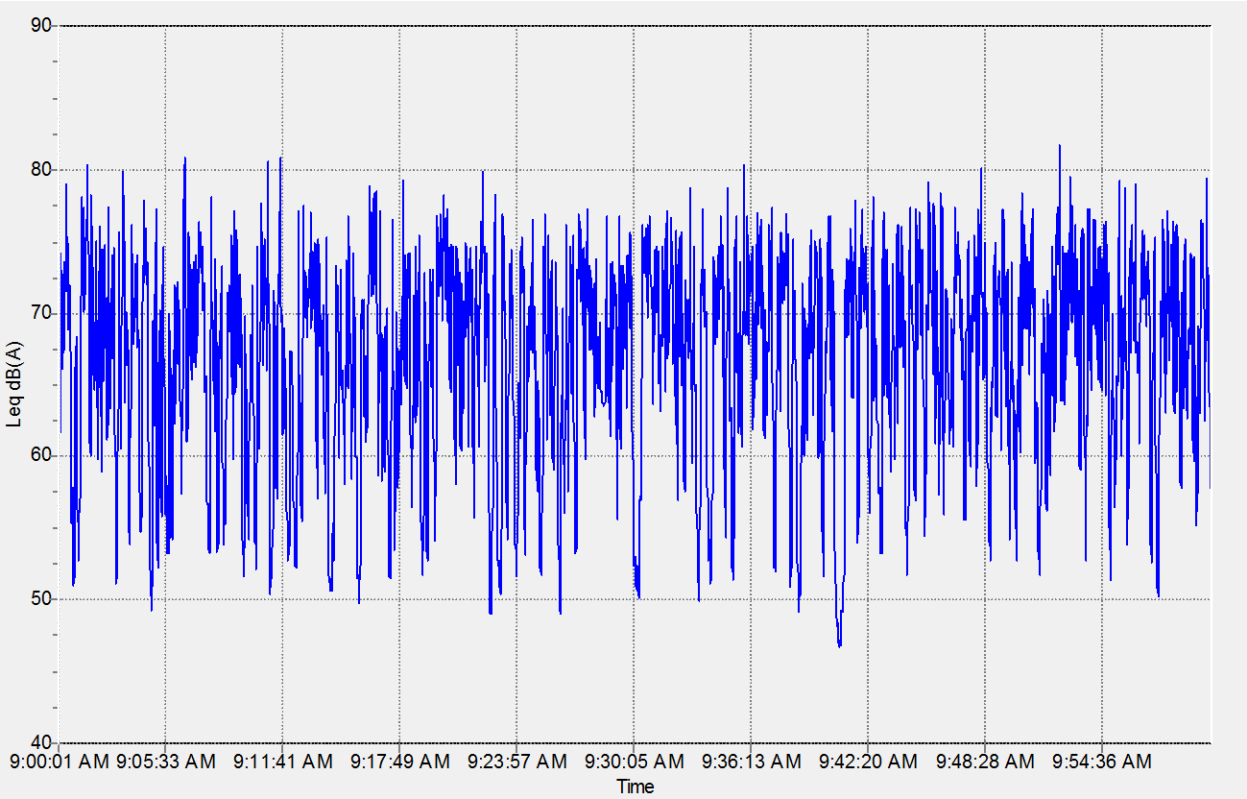
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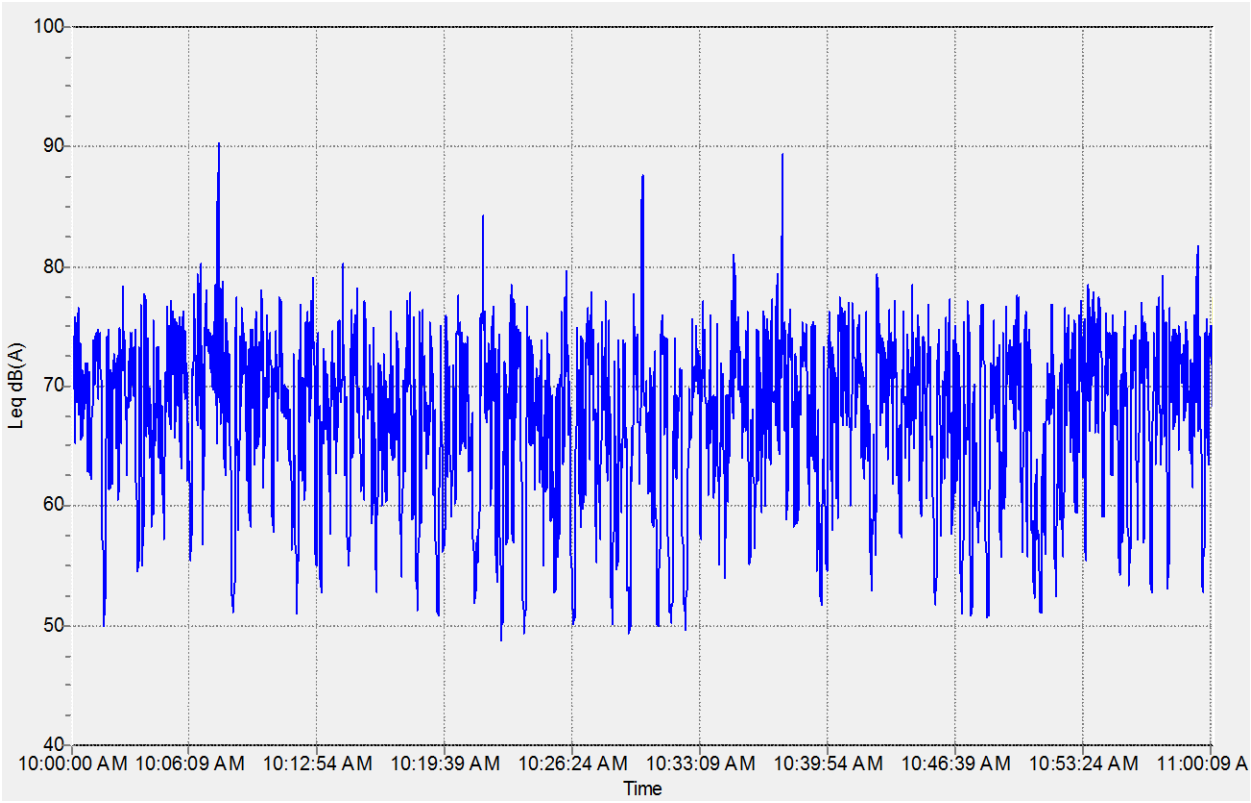
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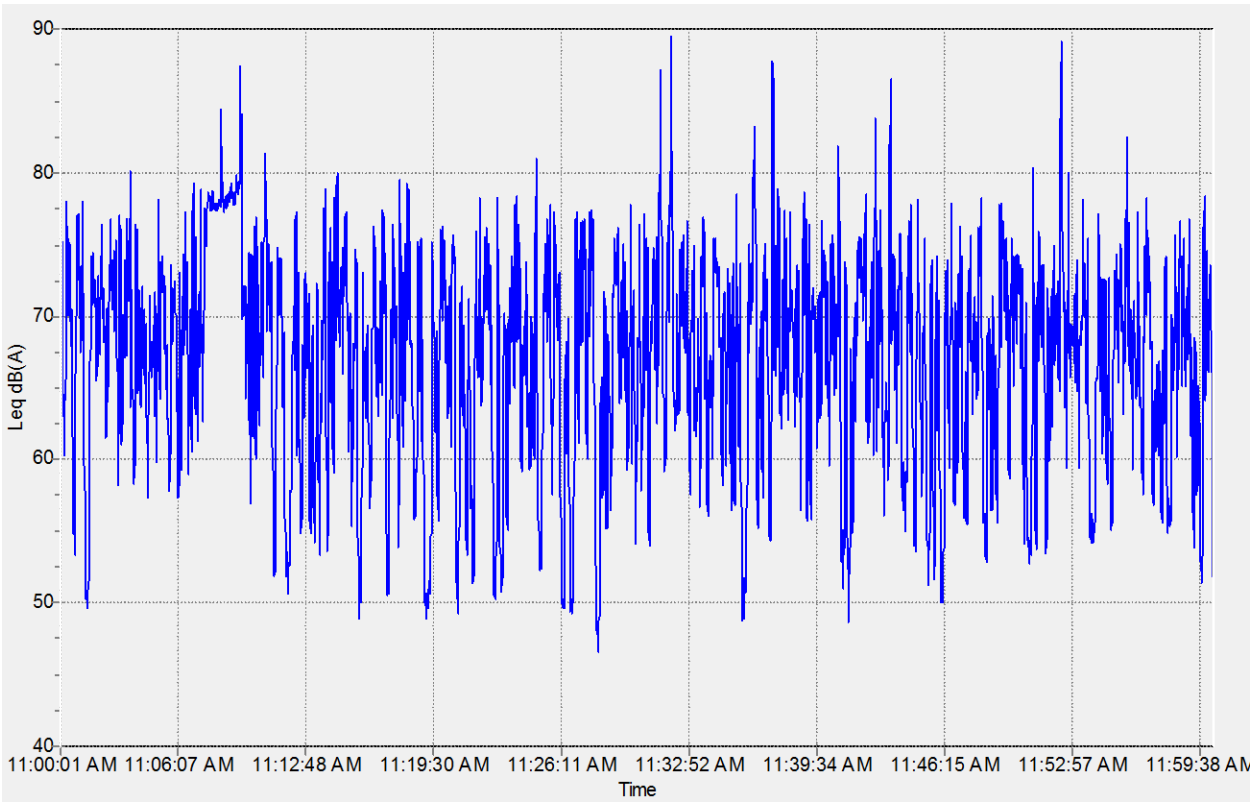
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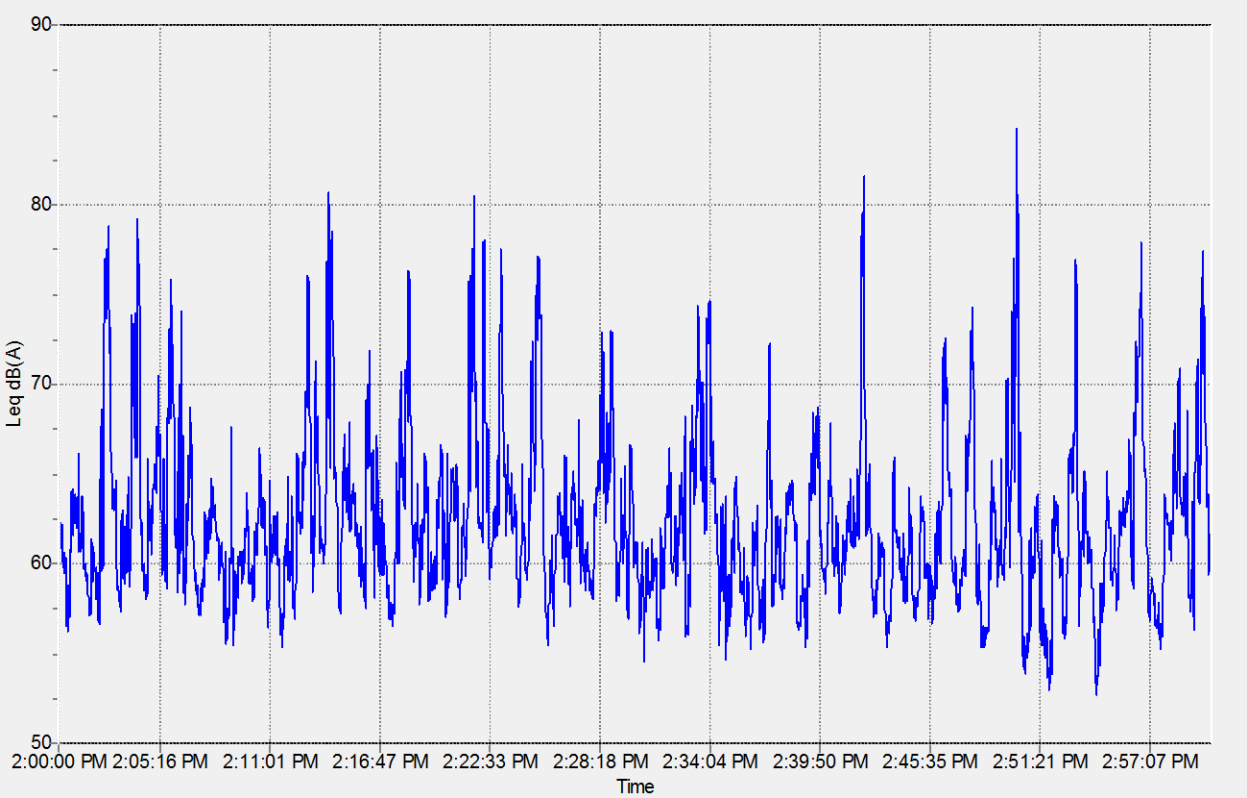
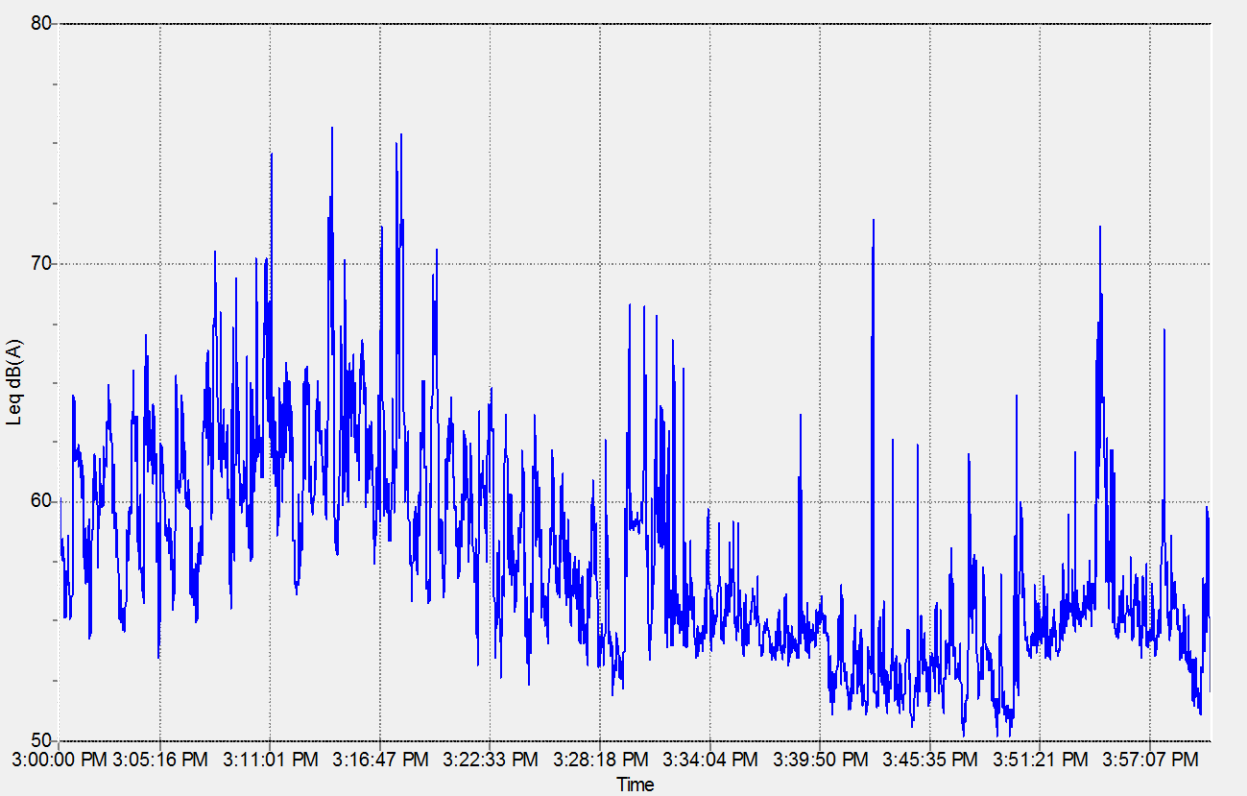
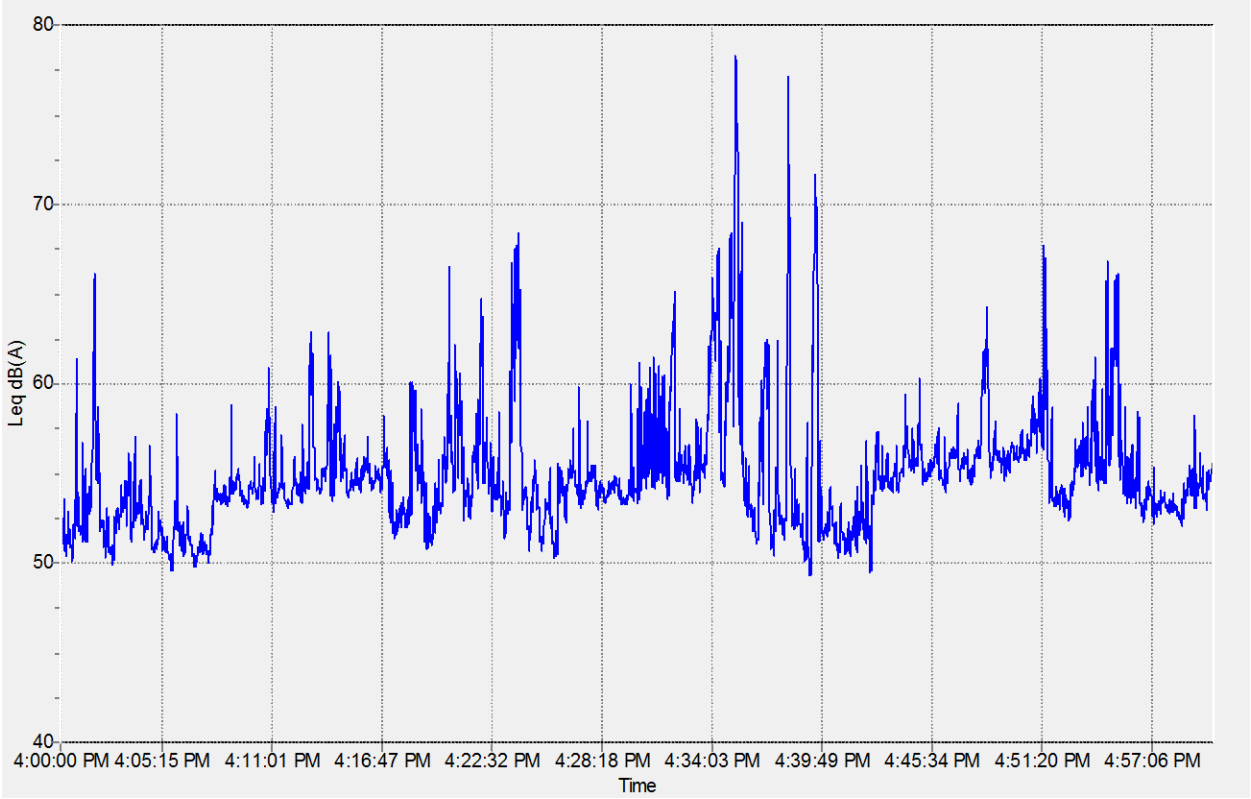
SOUND MONITORING ROYAL WATLER – HOURLY NOISE MEASUREMENTS JUNE 21 - 22



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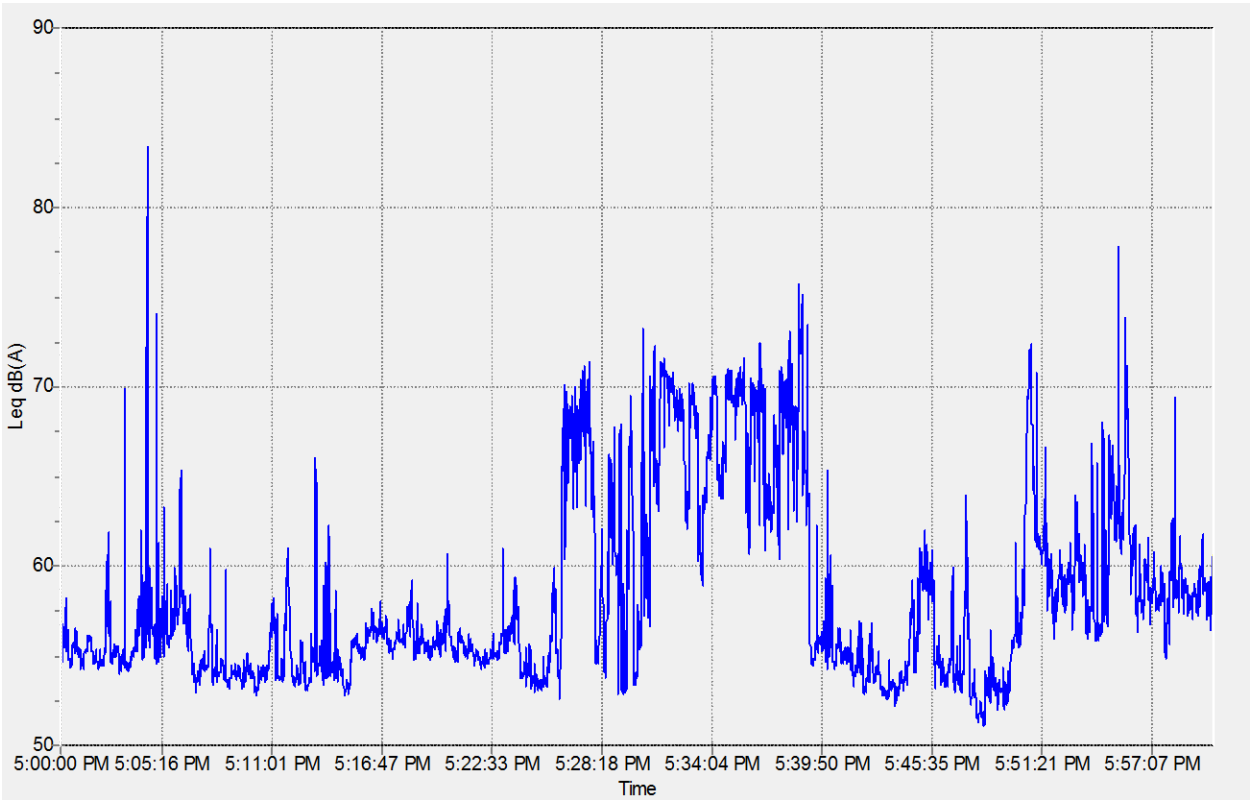
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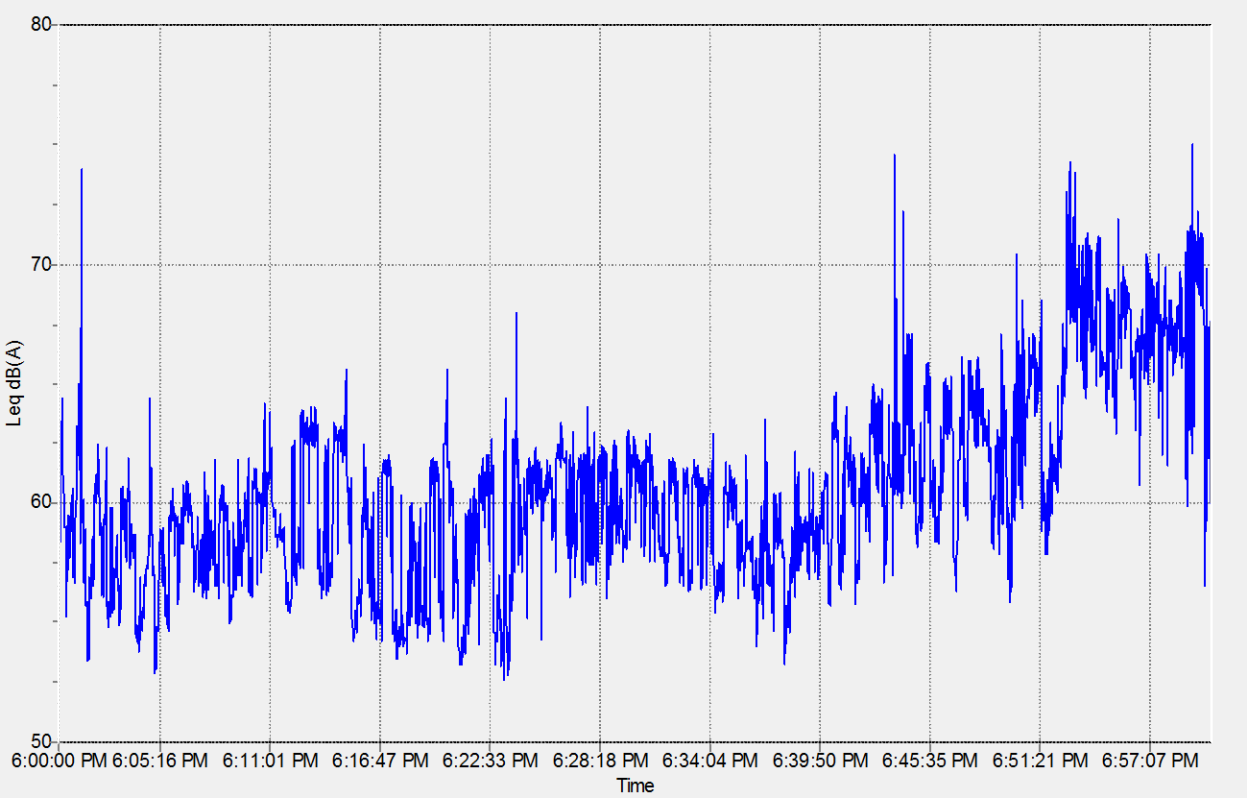
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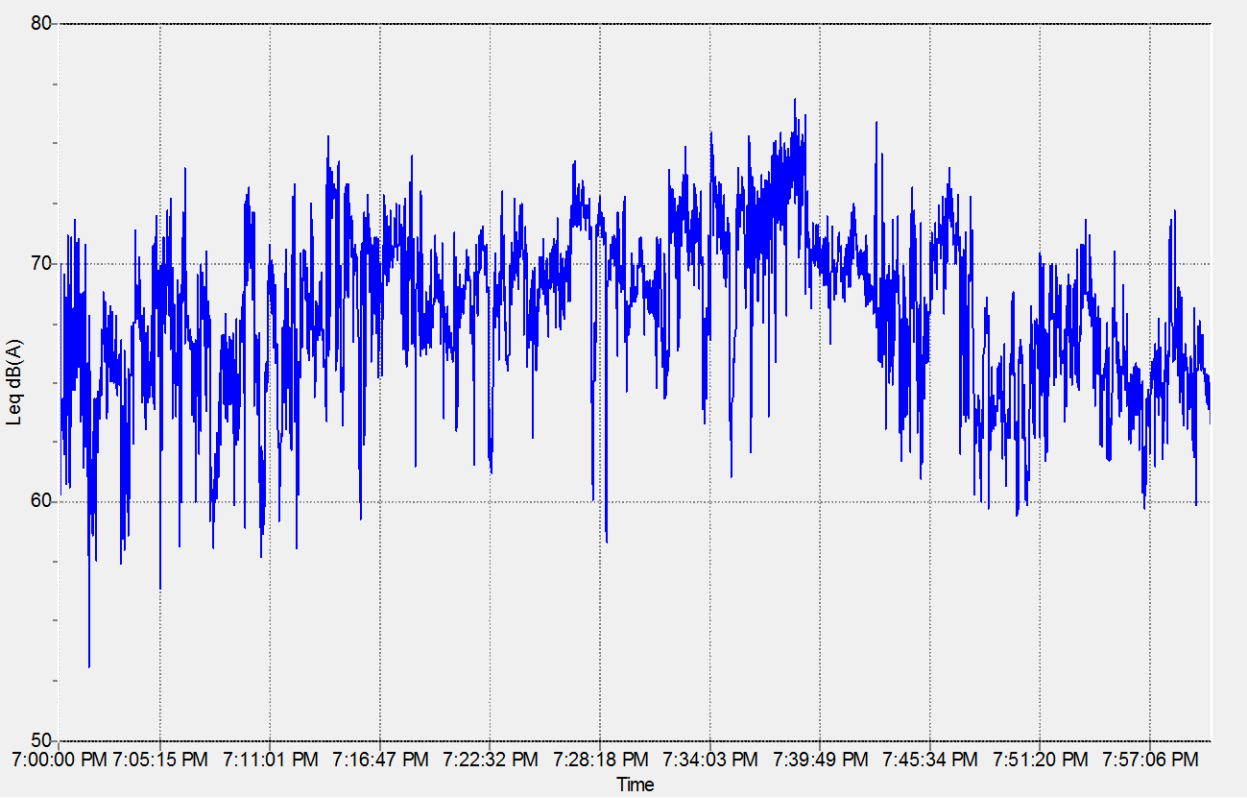
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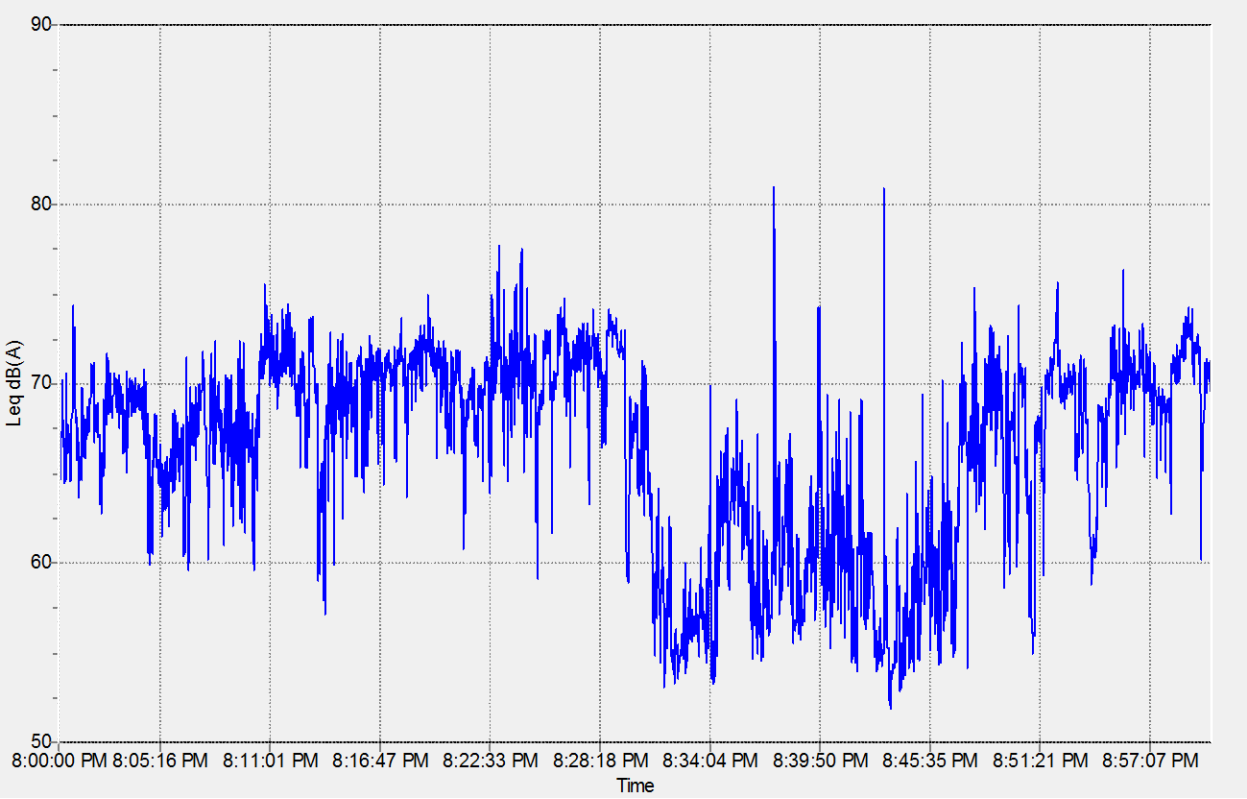
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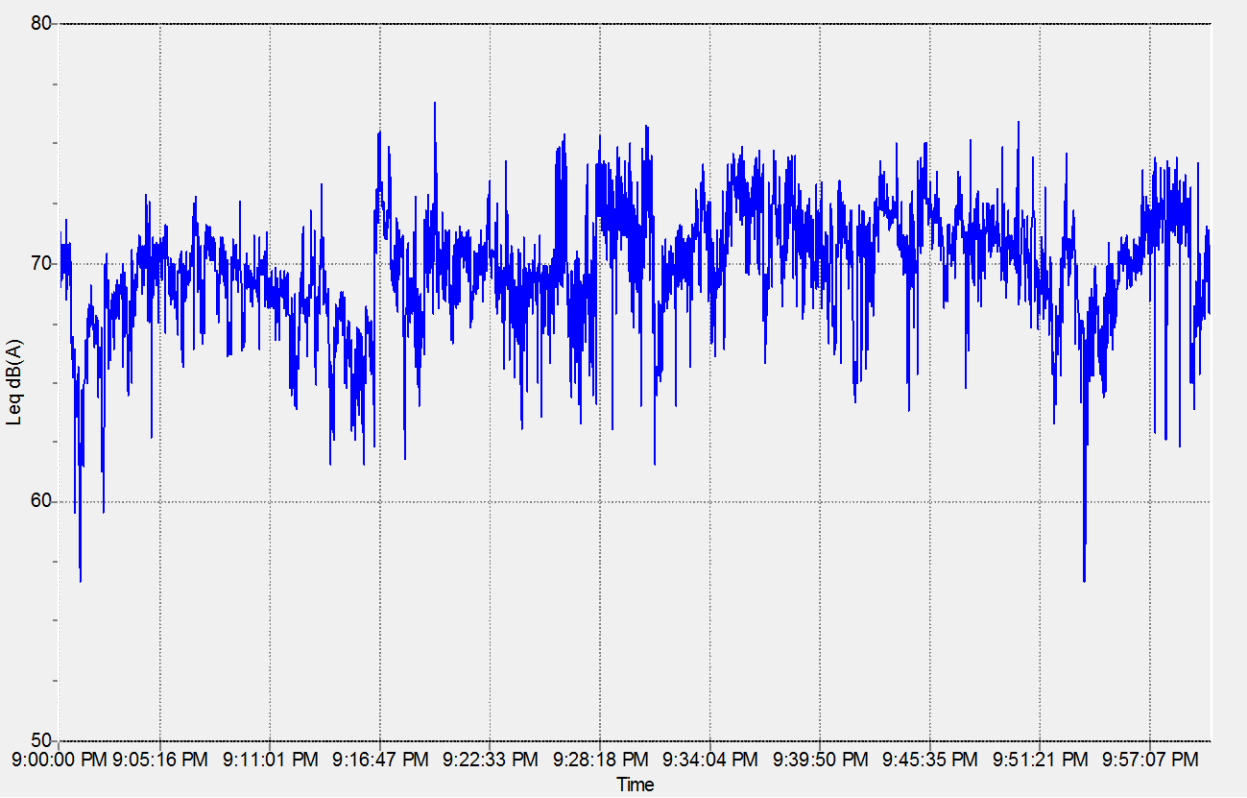
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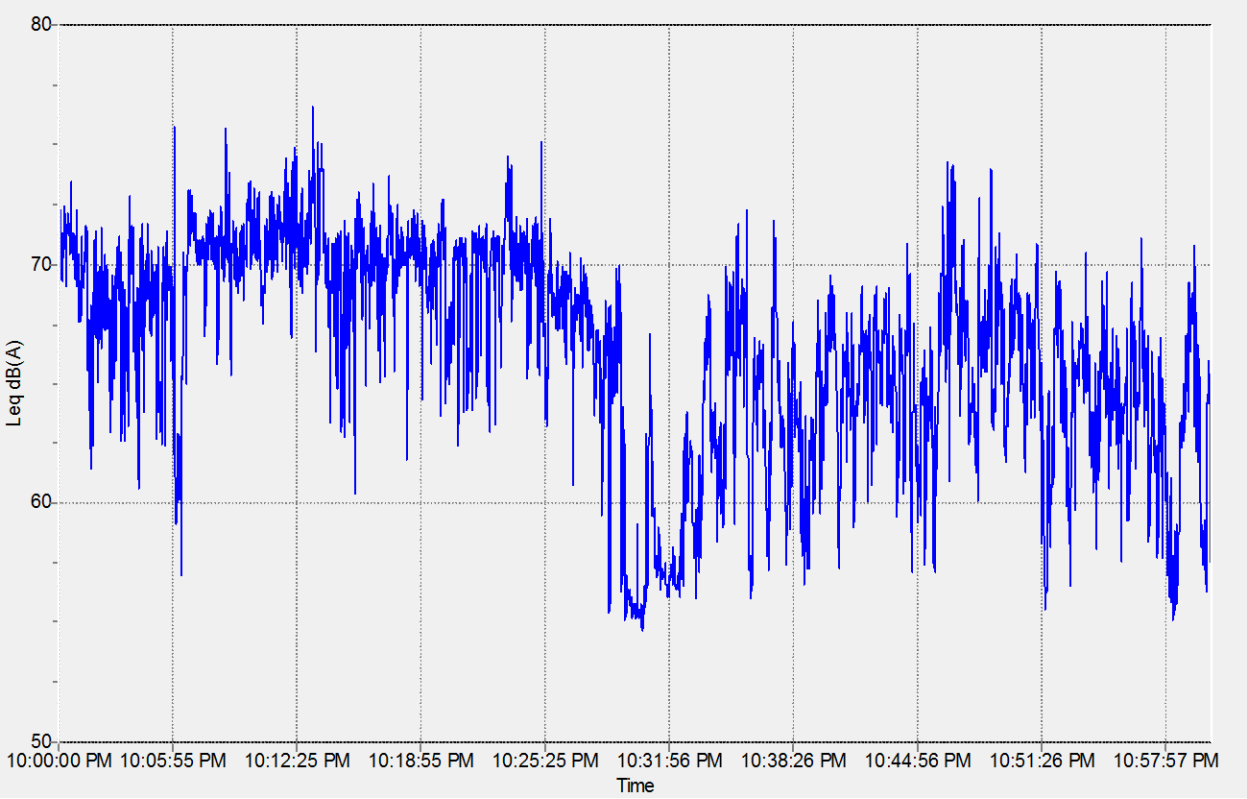
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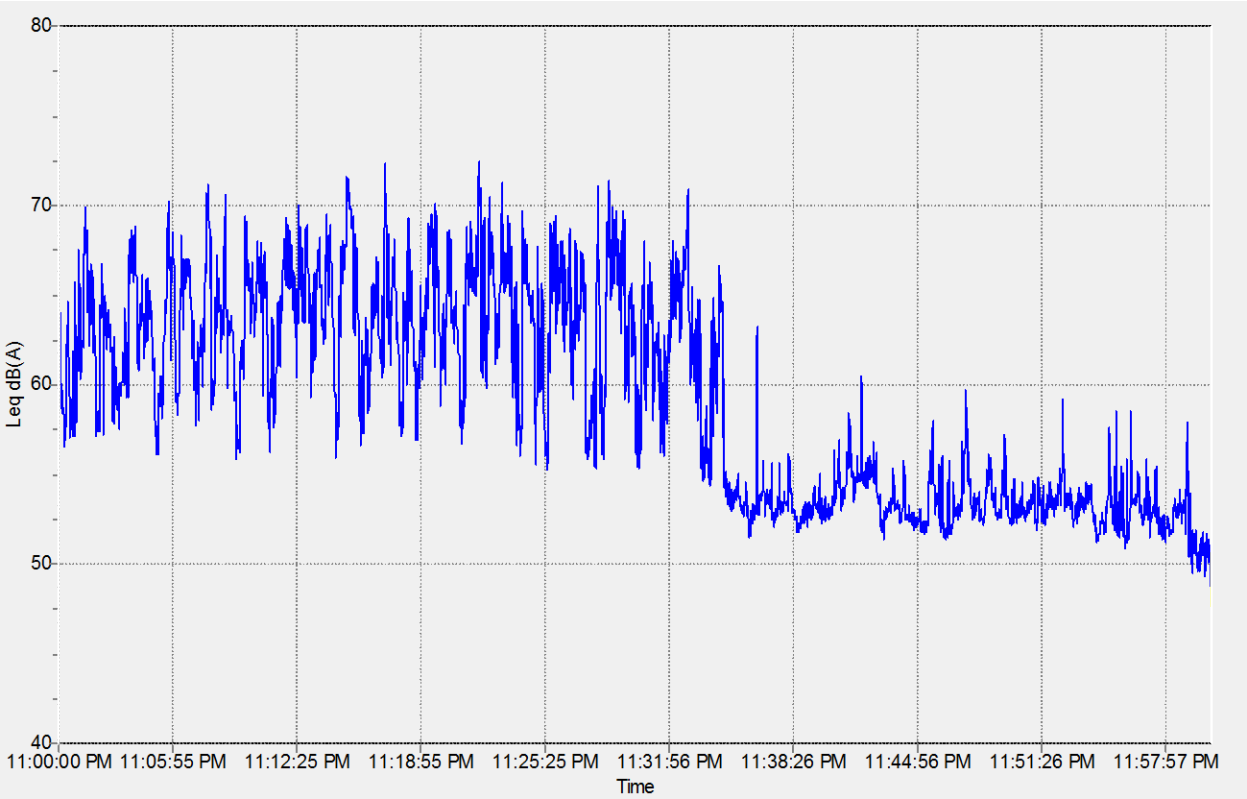
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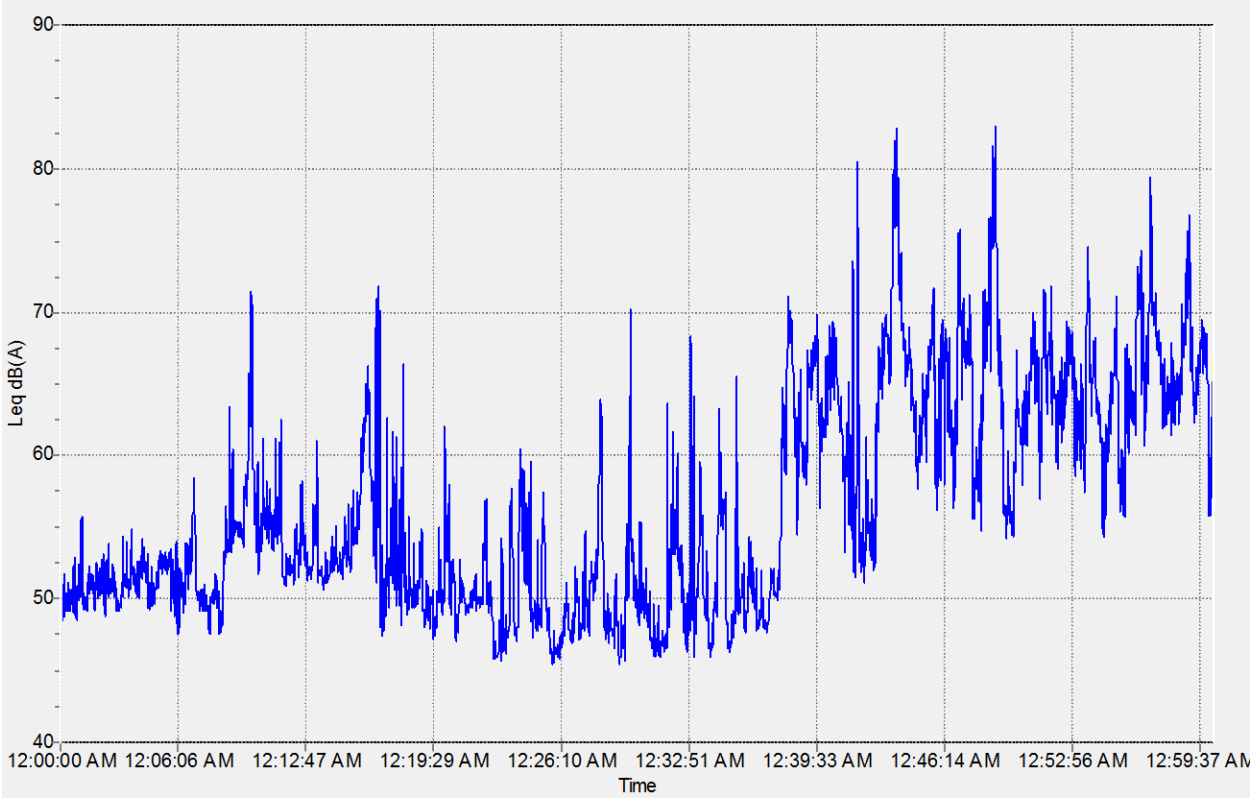
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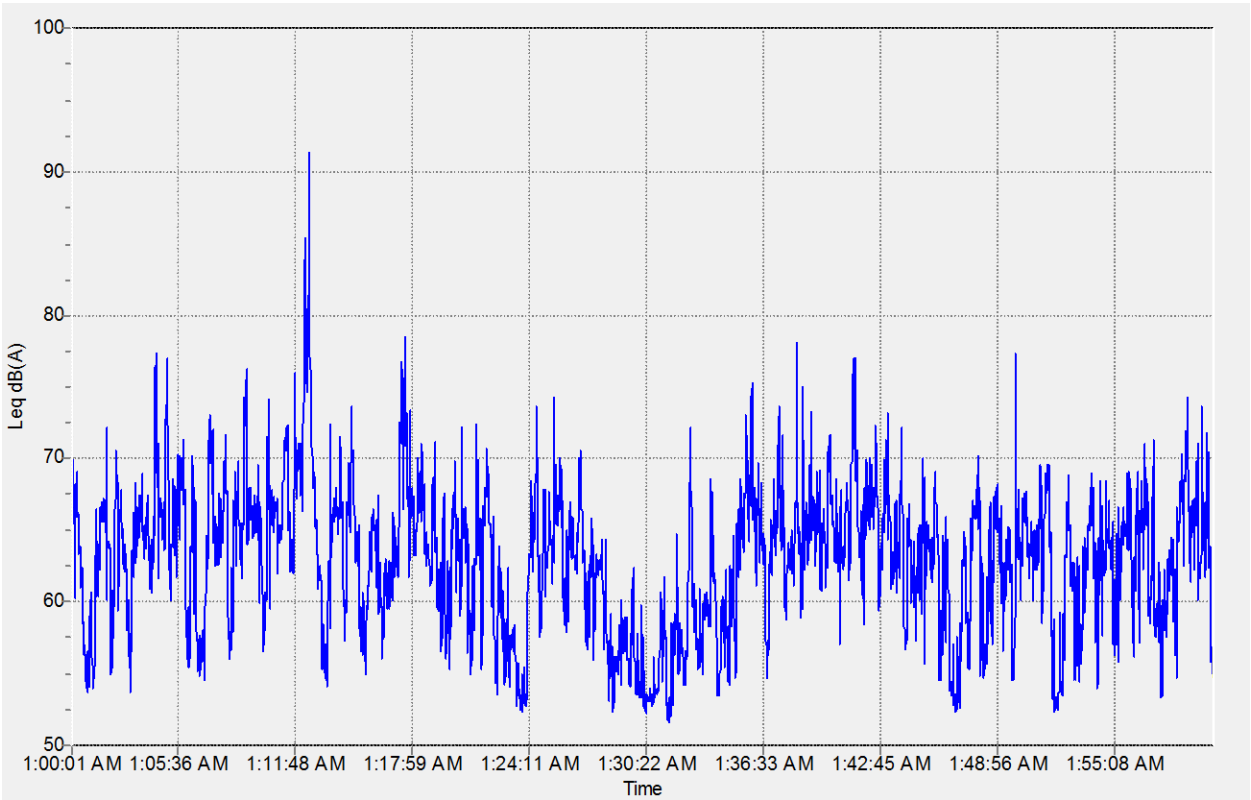
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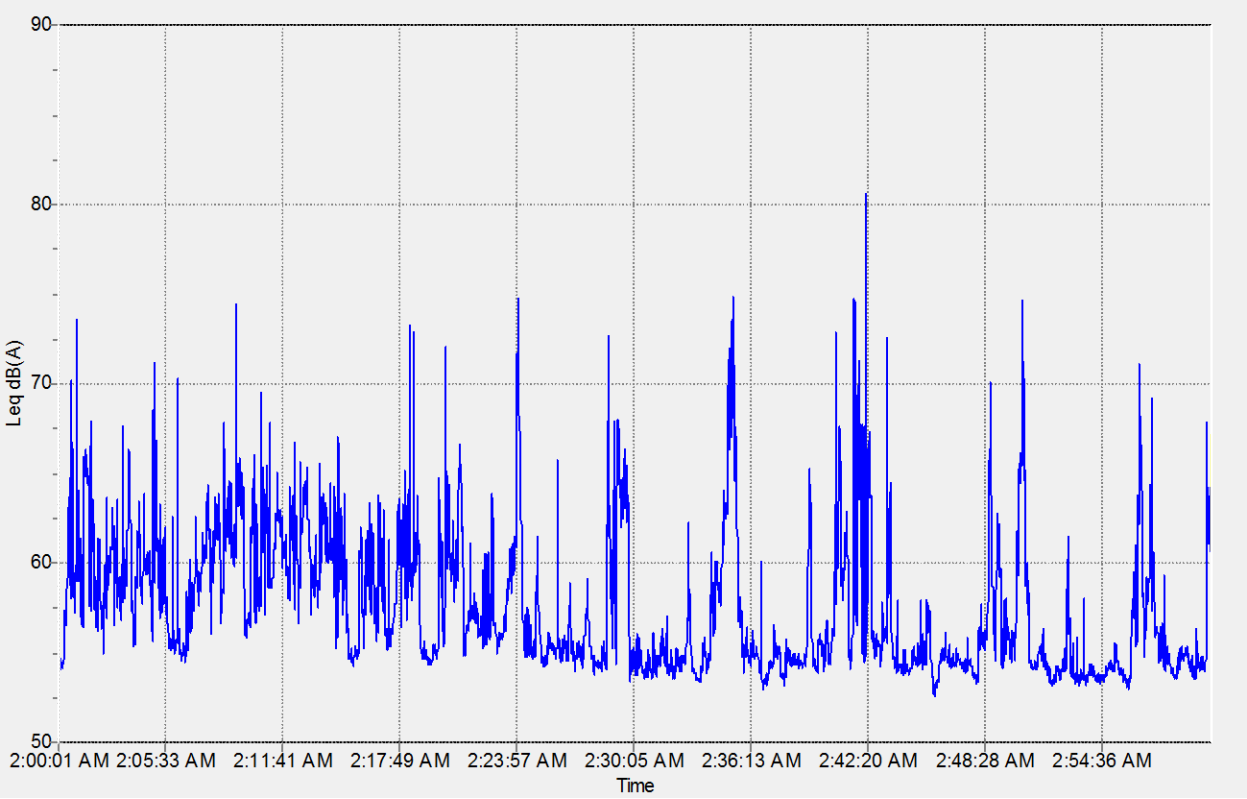
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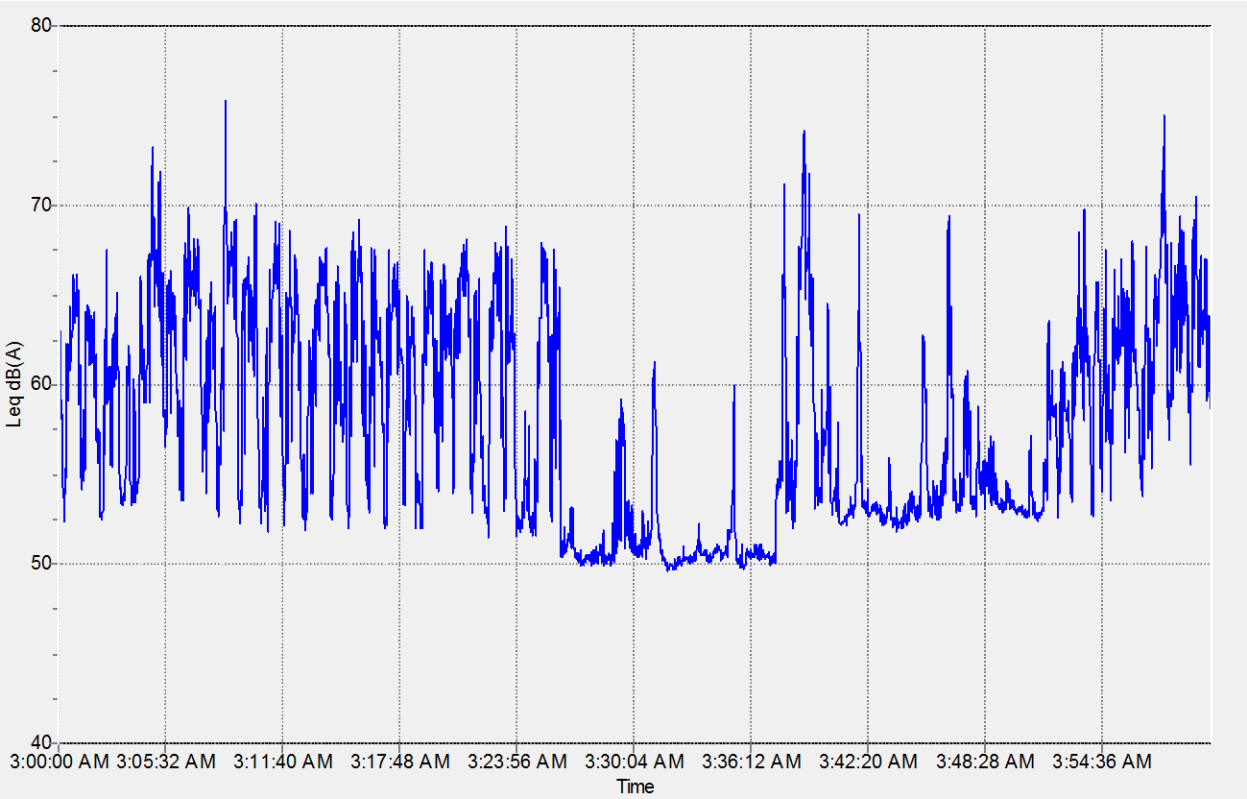
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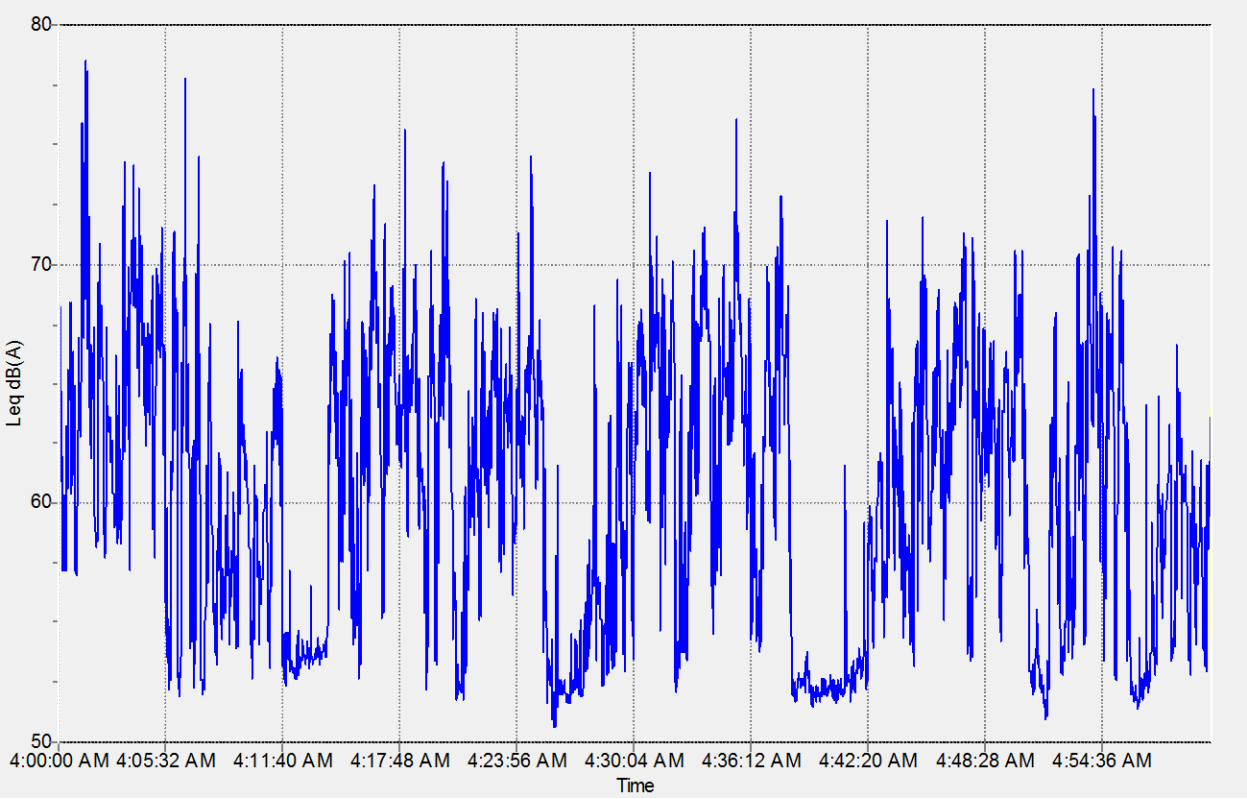
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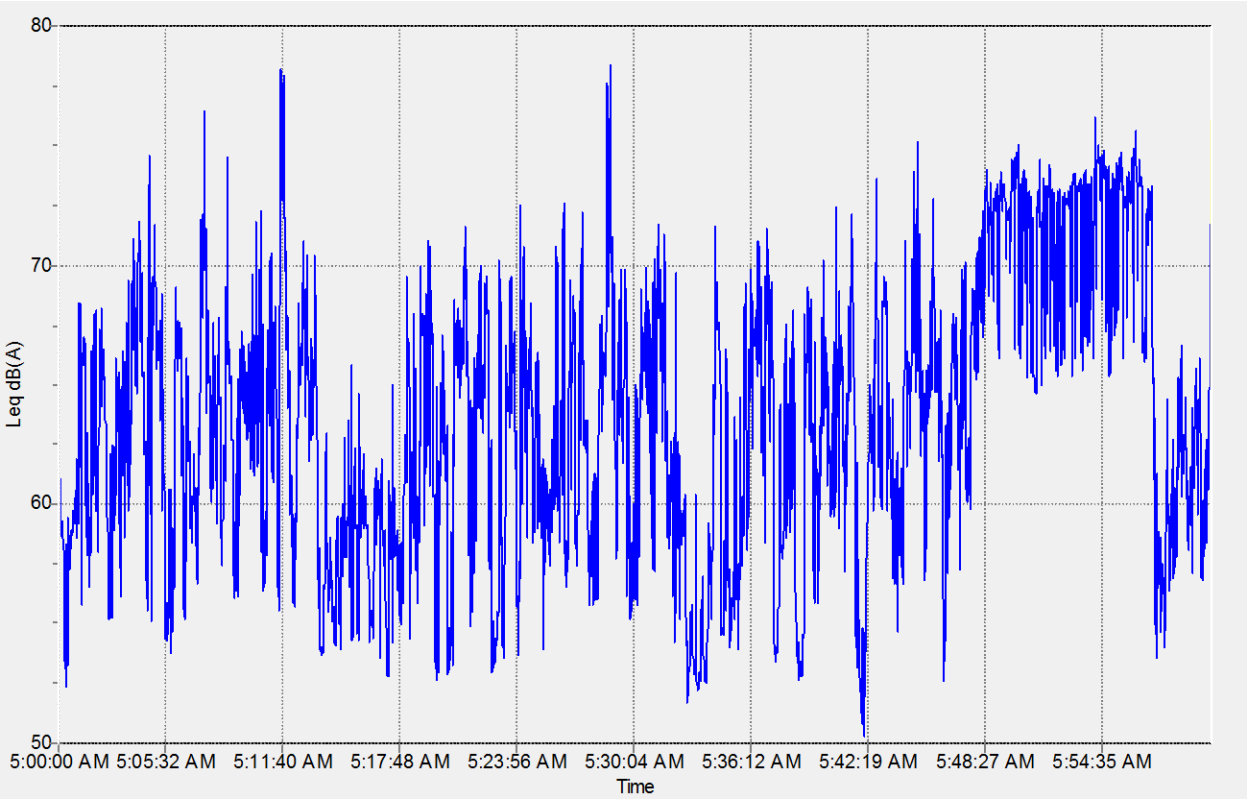
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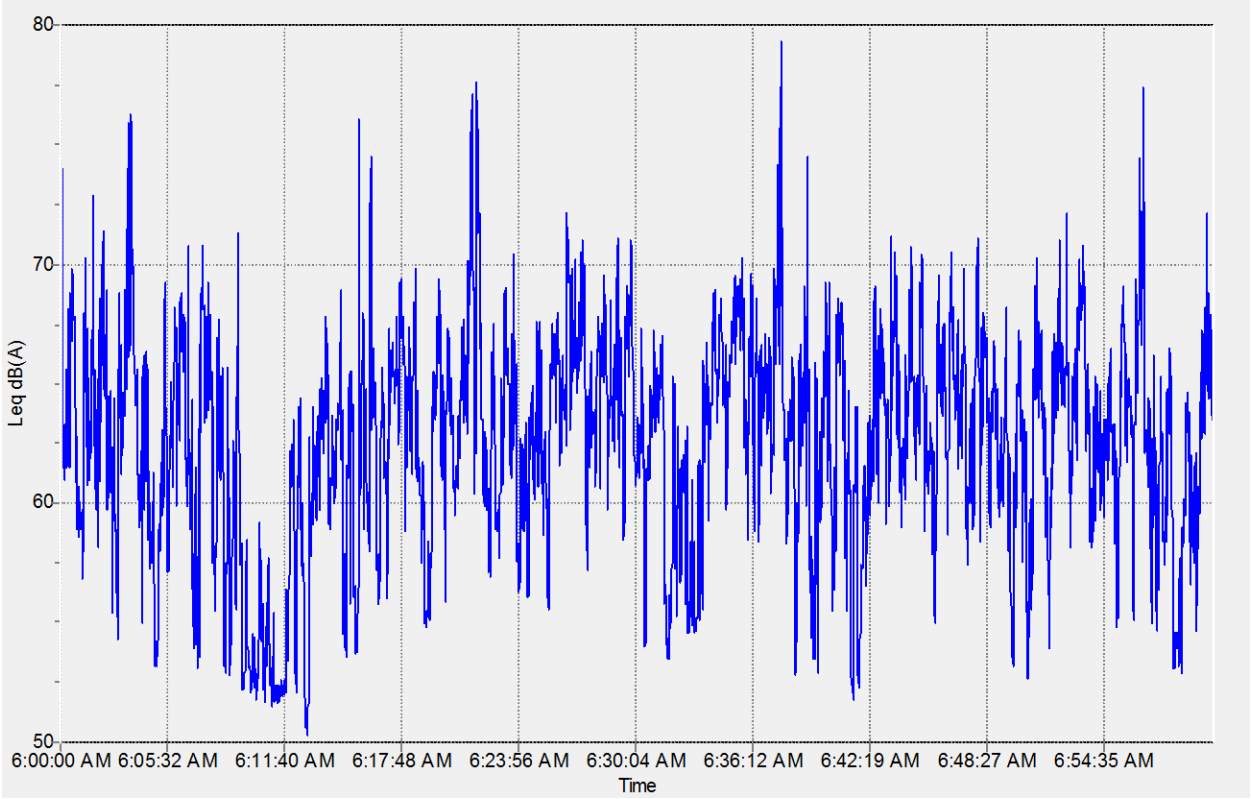
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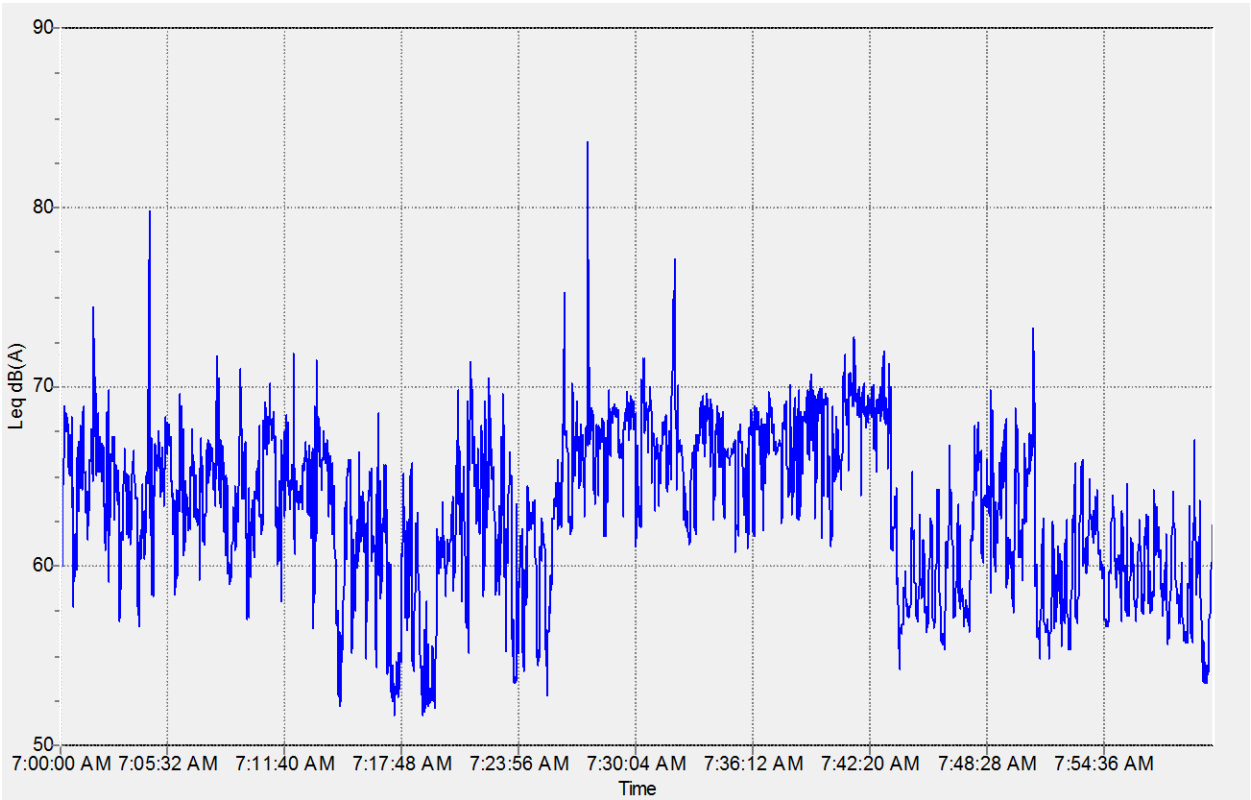
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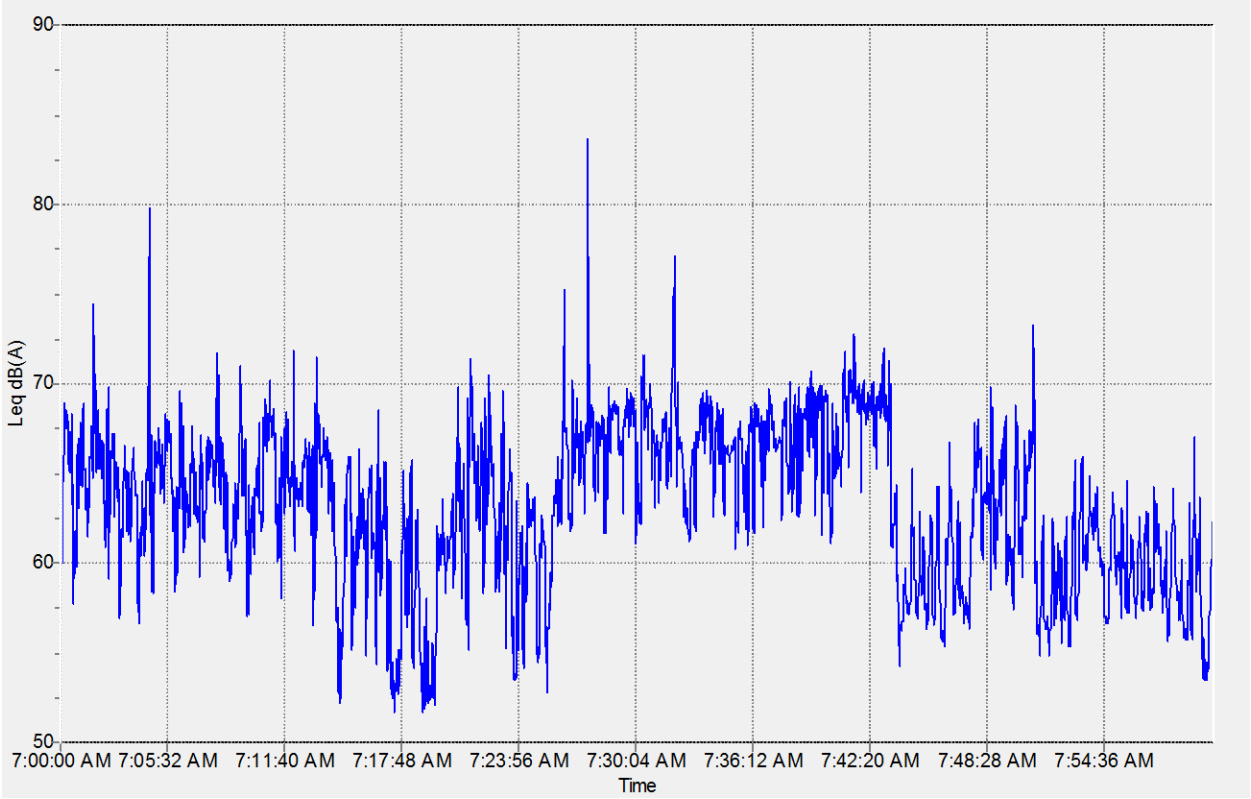
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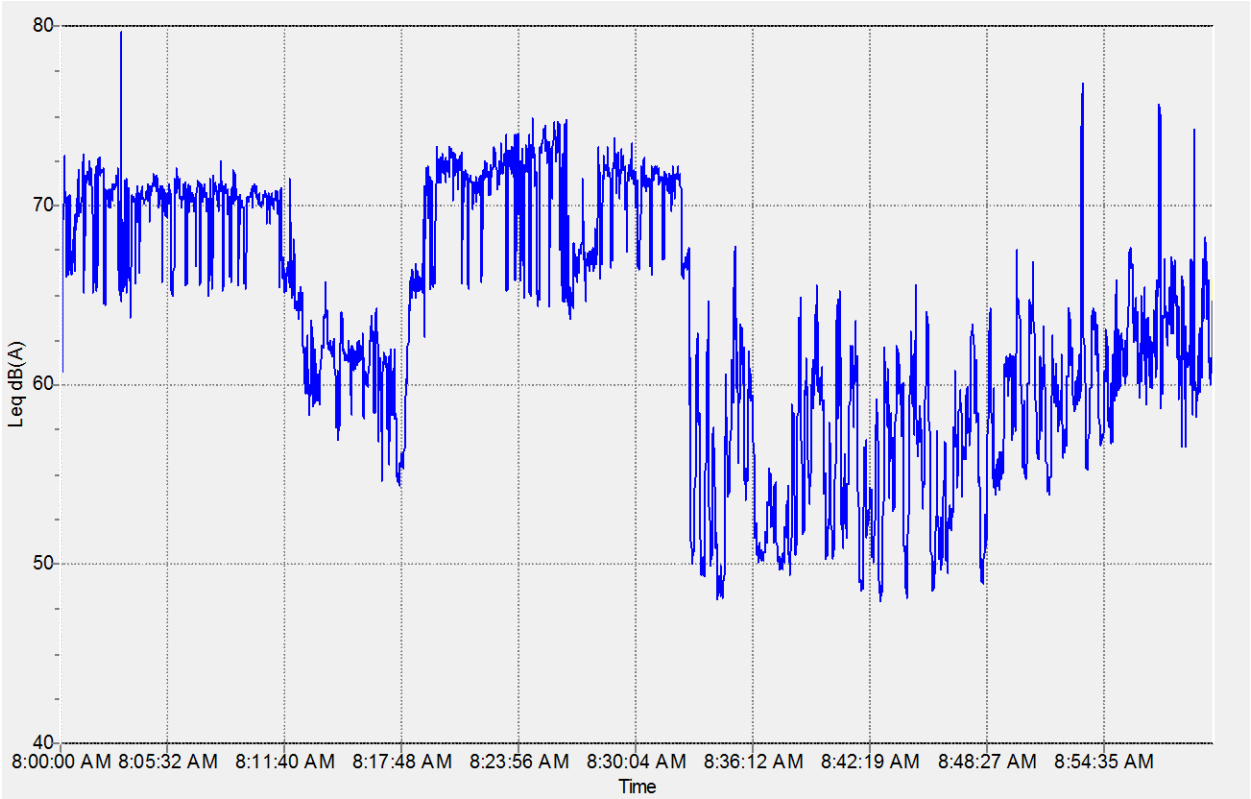
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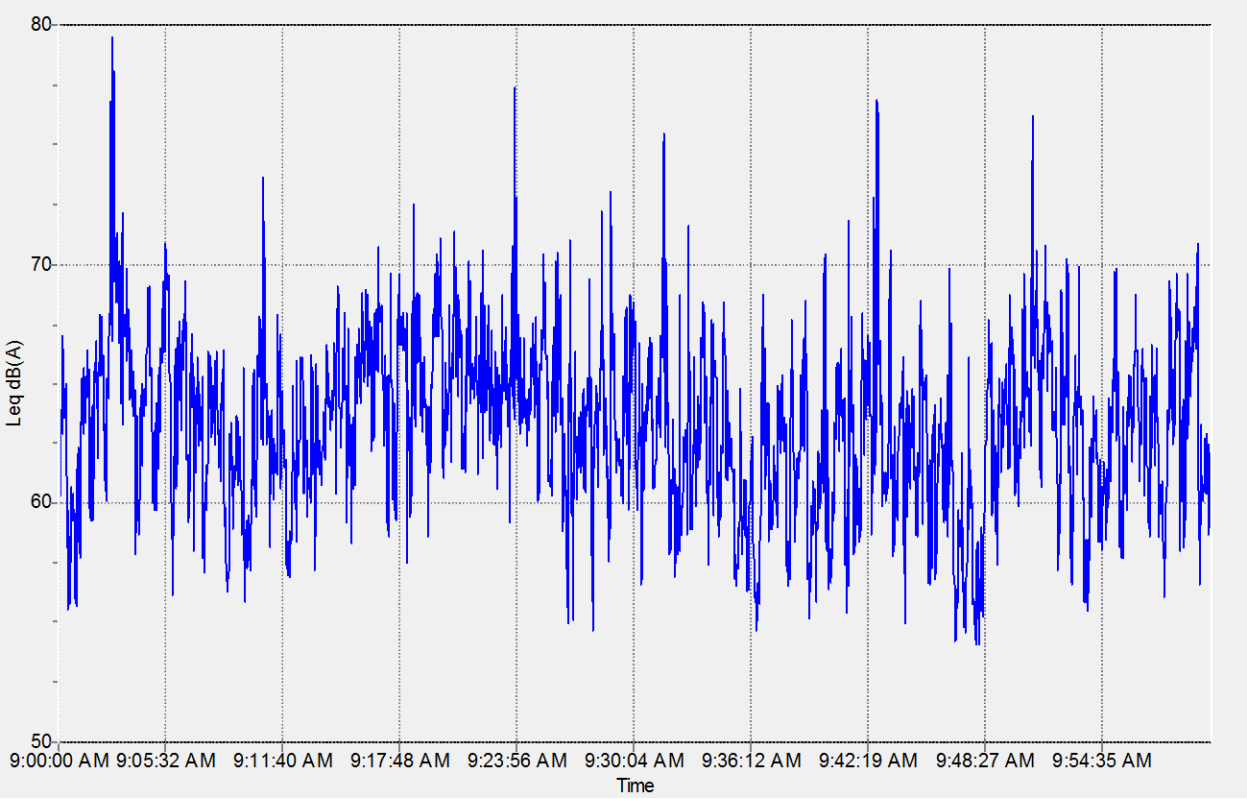
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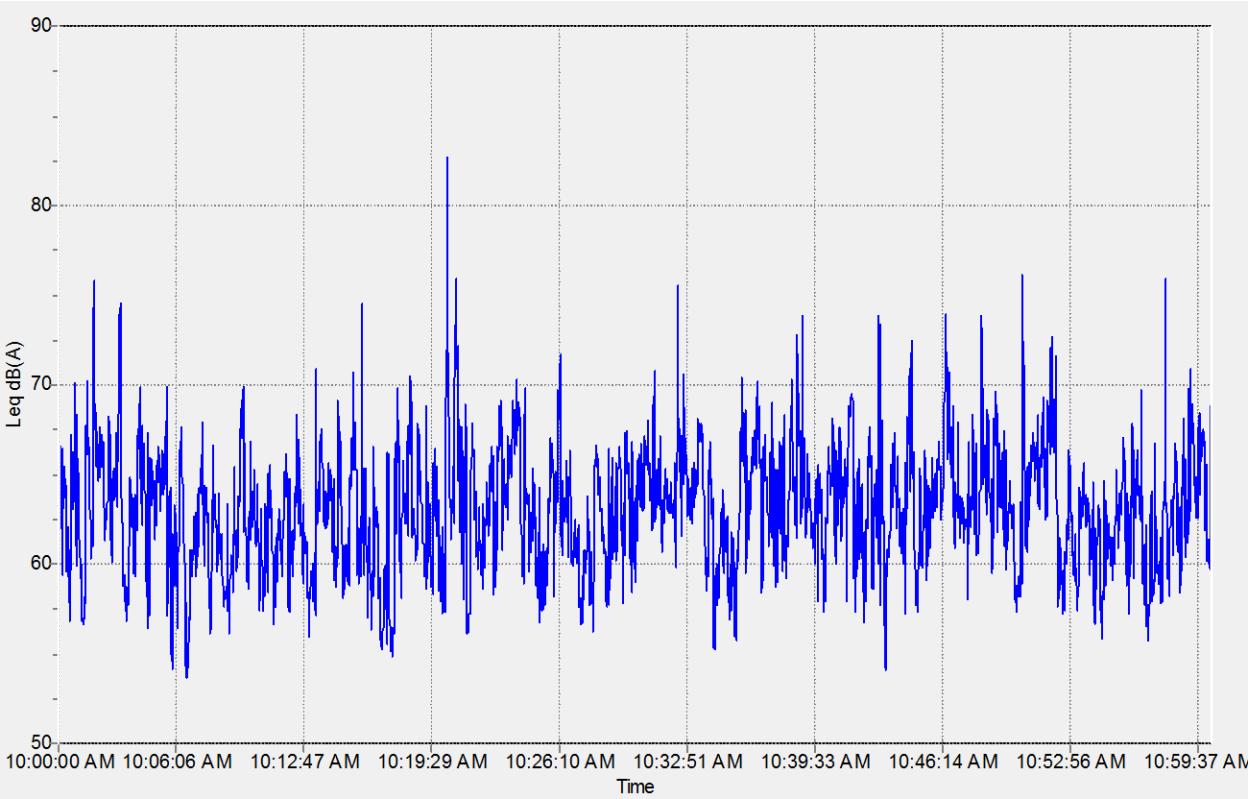
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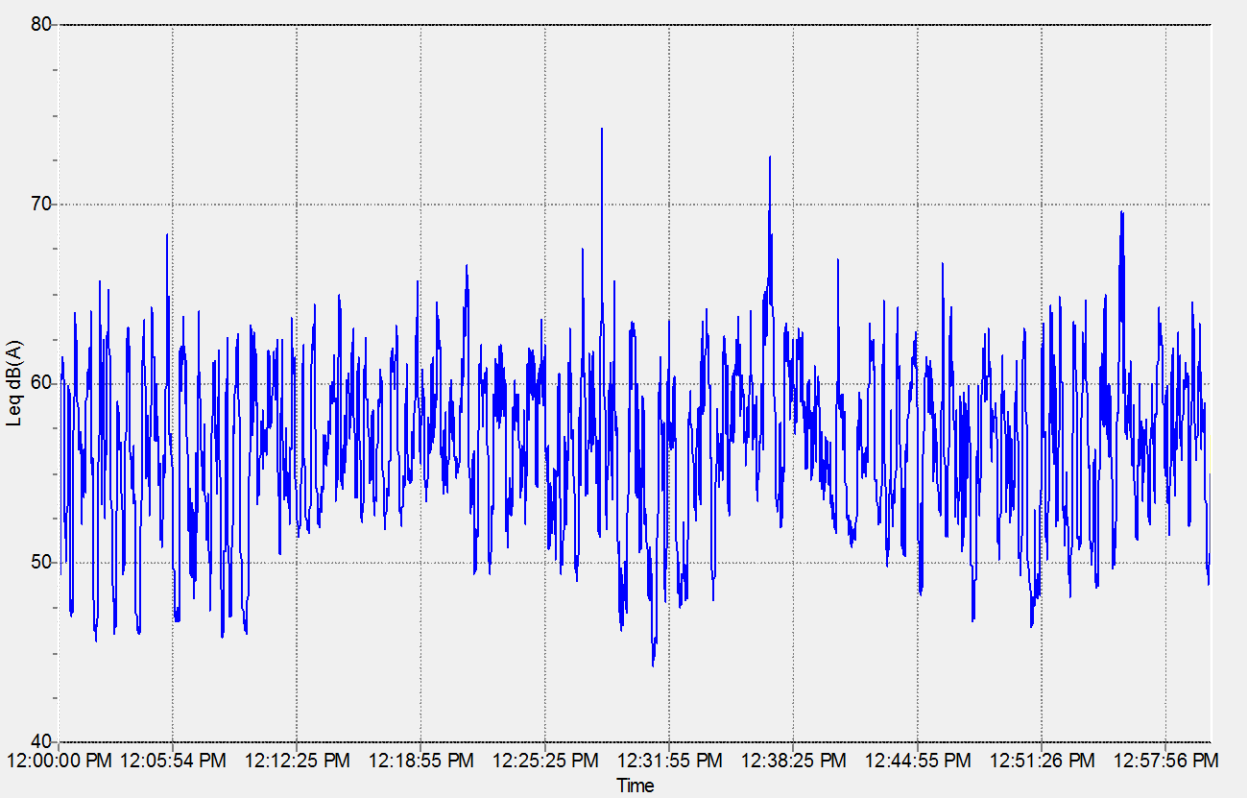
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