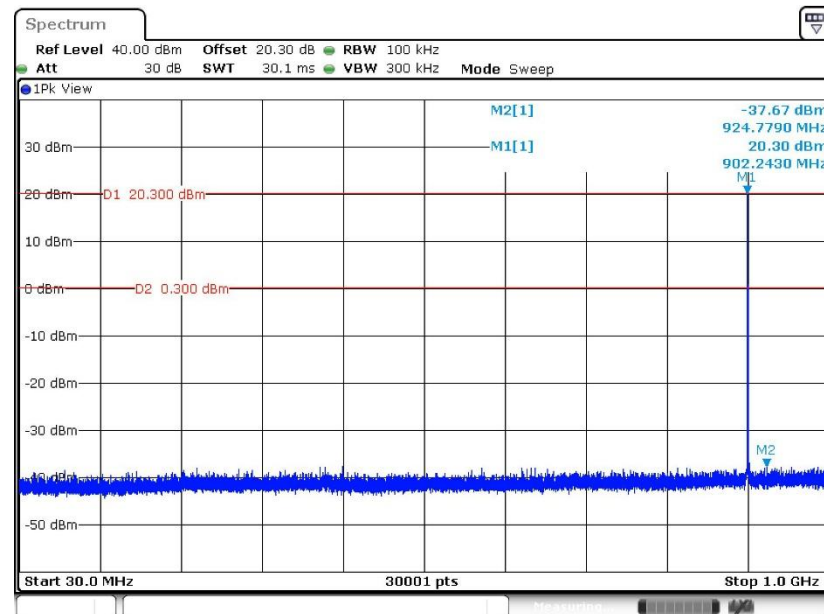


3.7.5 Test Result of Conducted Spurious Emission

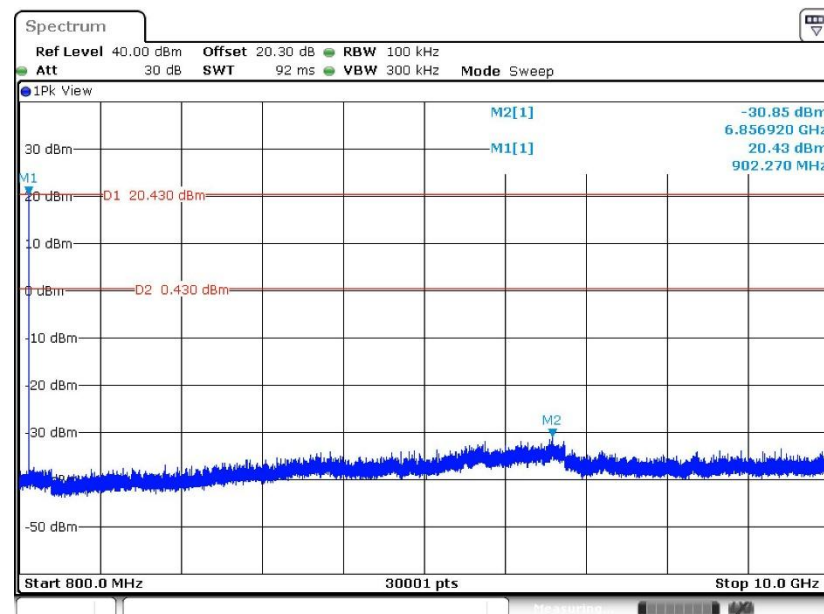
<Data Rate 50kbps>

Low CH CSE Plot



Date: 10.NOV.2025 17:40:48

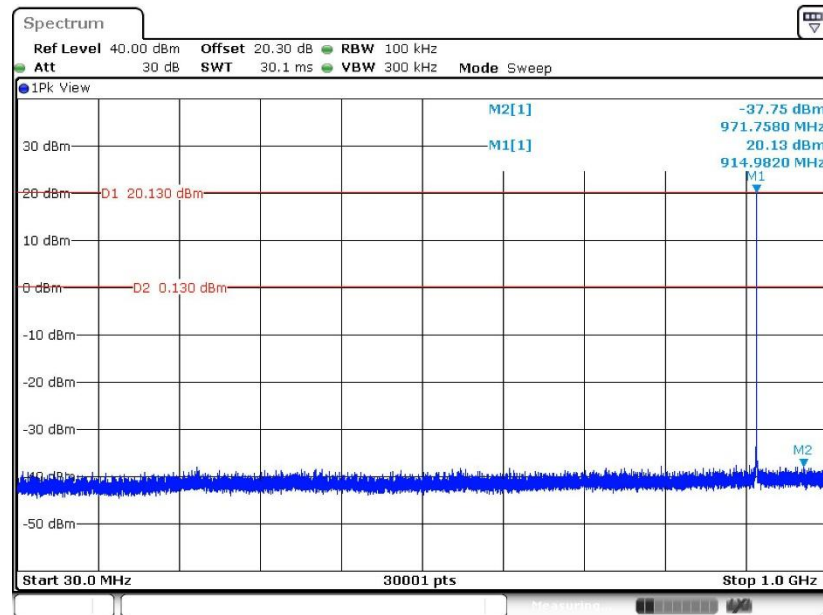
Low CH CSE Plot



Date: 10.NOV.2025 17:42:22

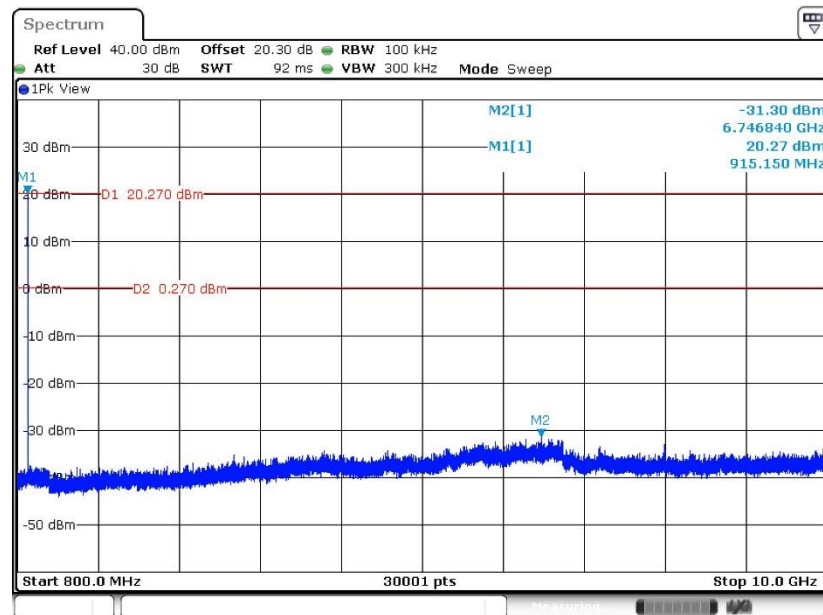


Mid CH CSE Plot



Date: 10.NOV.2025 17:46:41

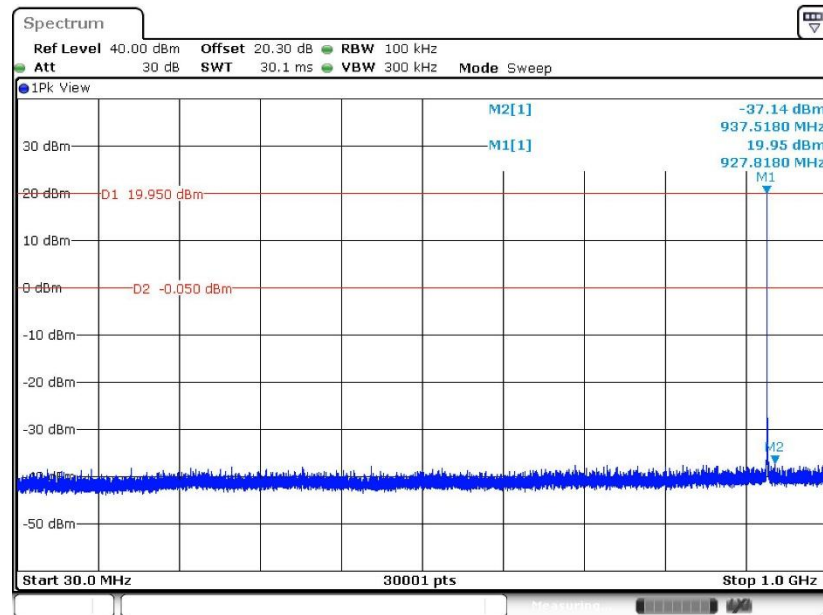
Mid CH CSE Plot



Date: 10.NOV.2025 17:48:09

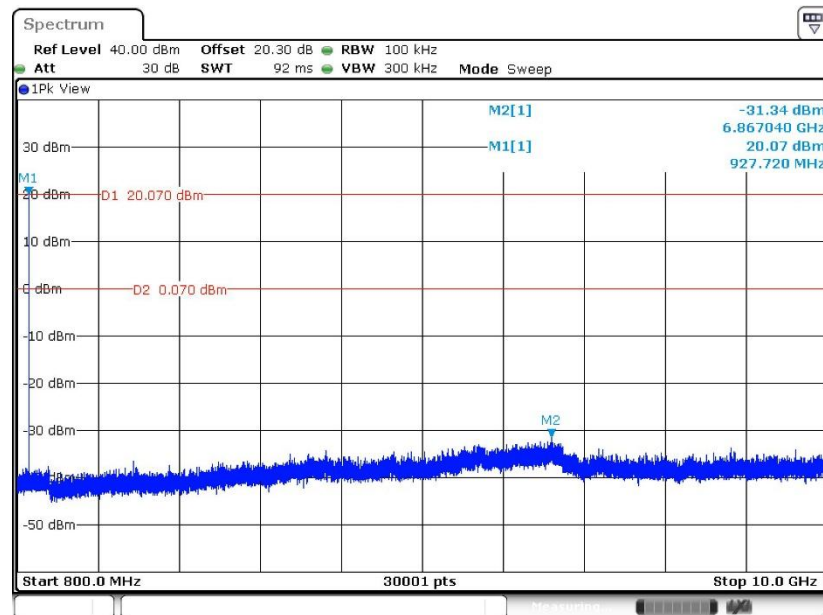


High CH CSE Plot



Date: 10.NOV.2025 18:03:58

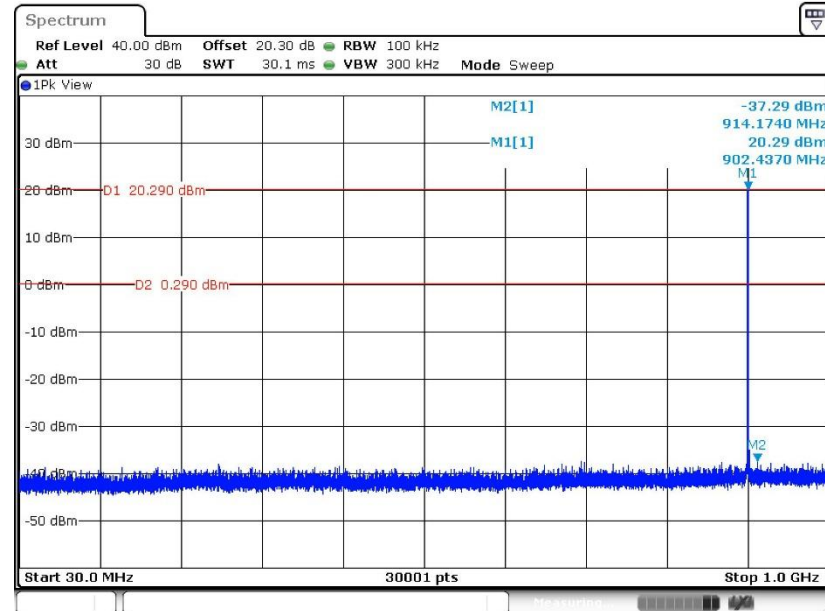
High CH CSE Plot



Date: 10.NOV.2025 18:04:54

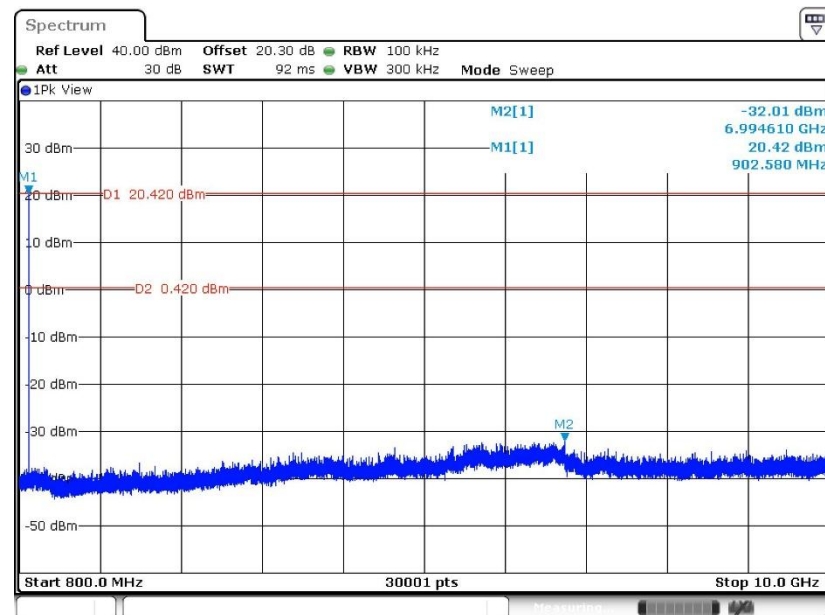
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Low CH CSE Plot



Date: 10.NOV.2025 21:24:26

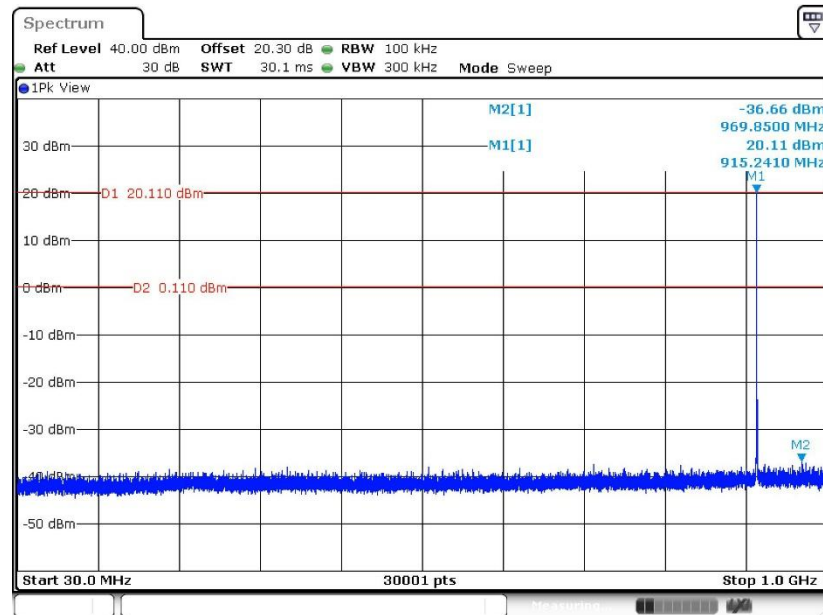
Low CH CSE Plot



Date: 10.NOV.2025 21:26:10

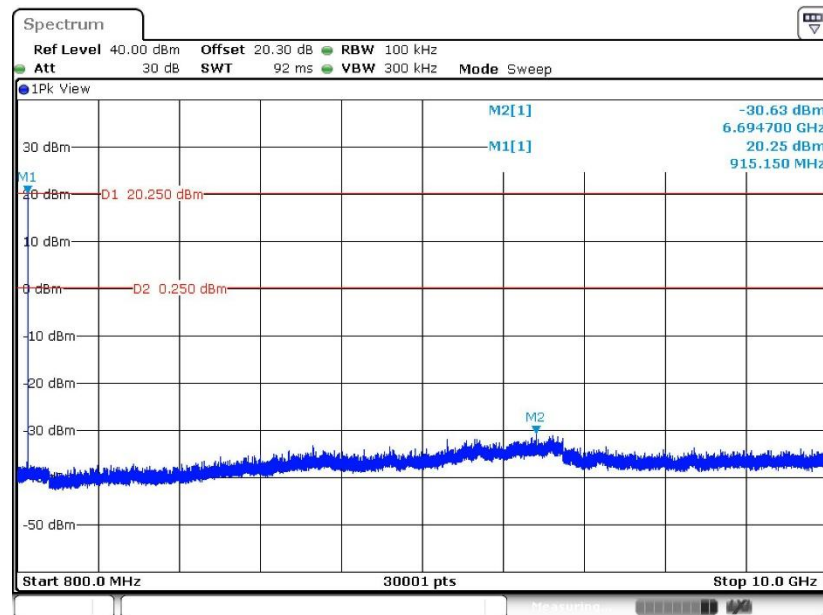


Mid CH CSE Plot



Date: 10.NOV.2025 21:31:12

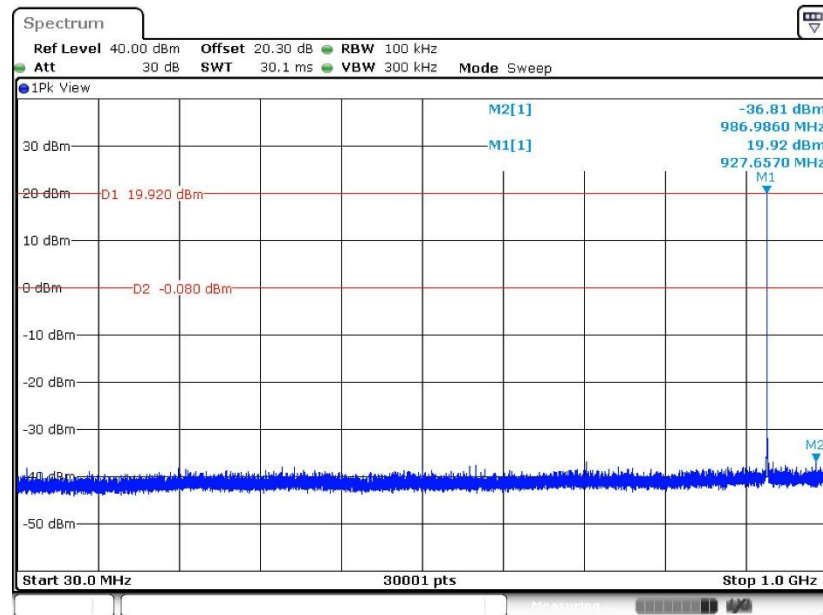
Mid CH CSE Plot



Date: 10.NOV.2025 21:34:33

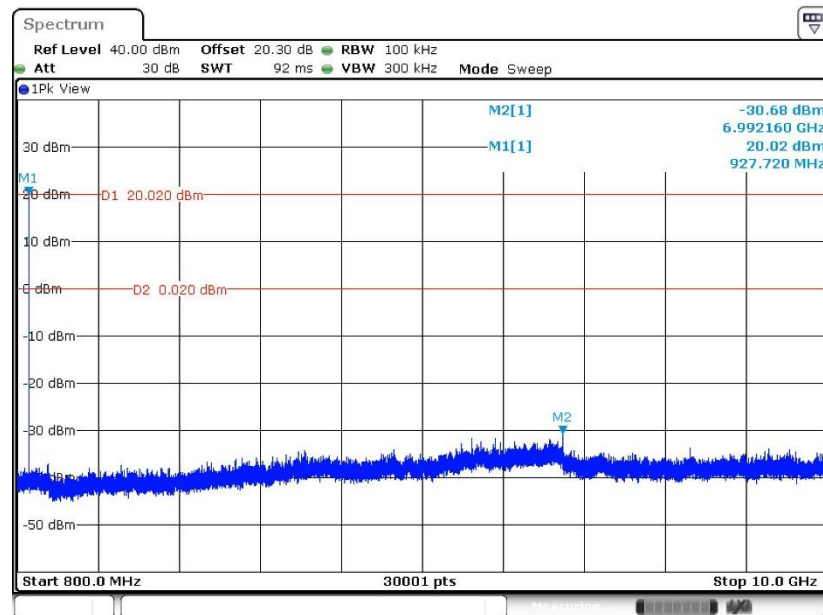


High CH CSE Plot



Date: 10.NOV.2025 21:42:13

High CH CSE Plot

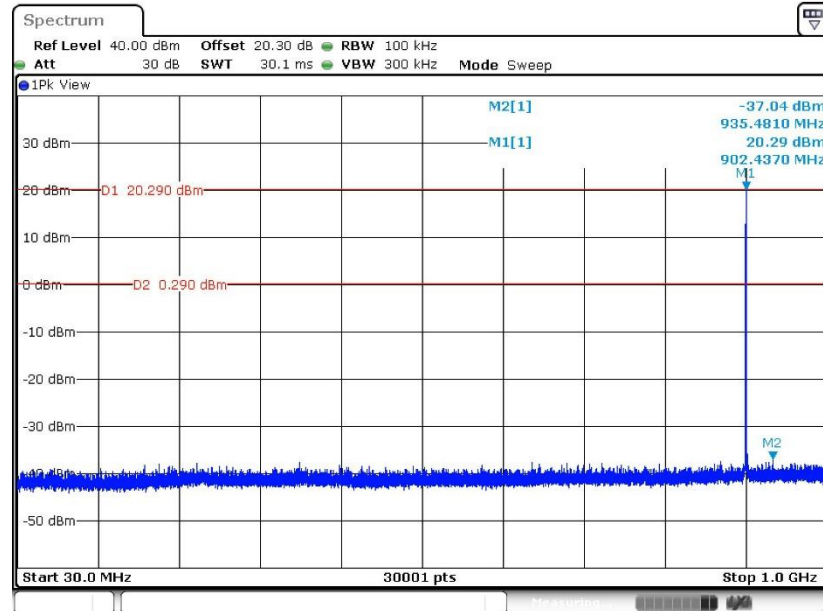


Date: 10.NOV.2025 21:43:26



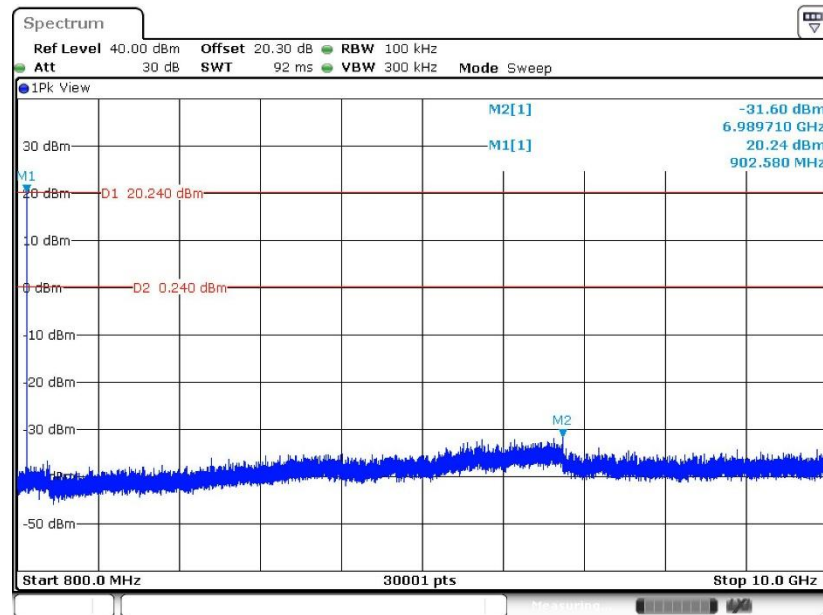
<Data Rate 250kbps>

Low CH CSE Plot



Date: 10.NOV.2025 22:41:52

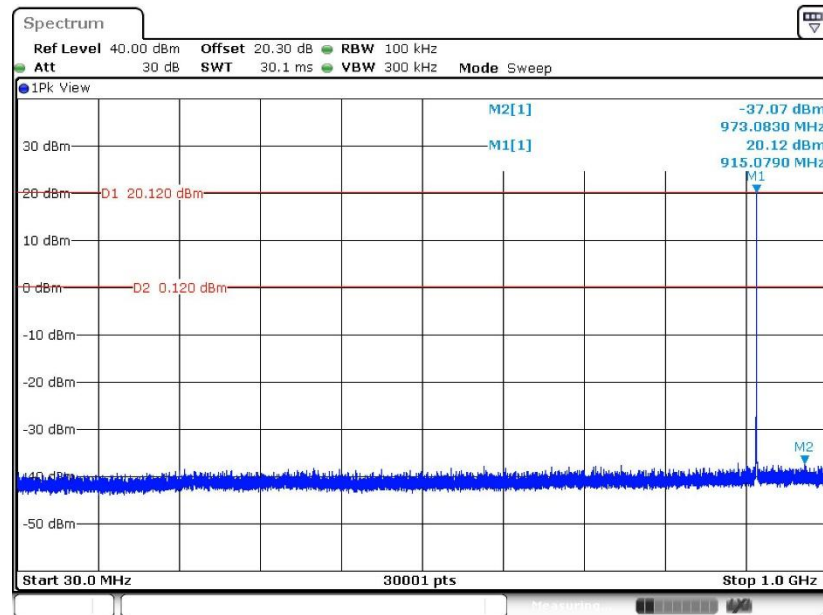
Low CH CSE Plot



Date: 10.NOV.2025 22:43:00

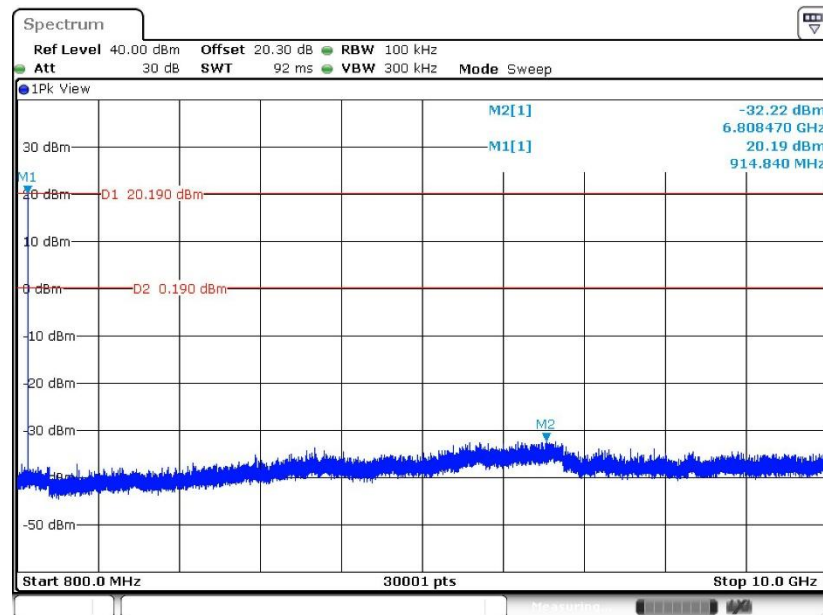


Mid CH CSE Plot



Date: 10.NOV.2025 22:46:21

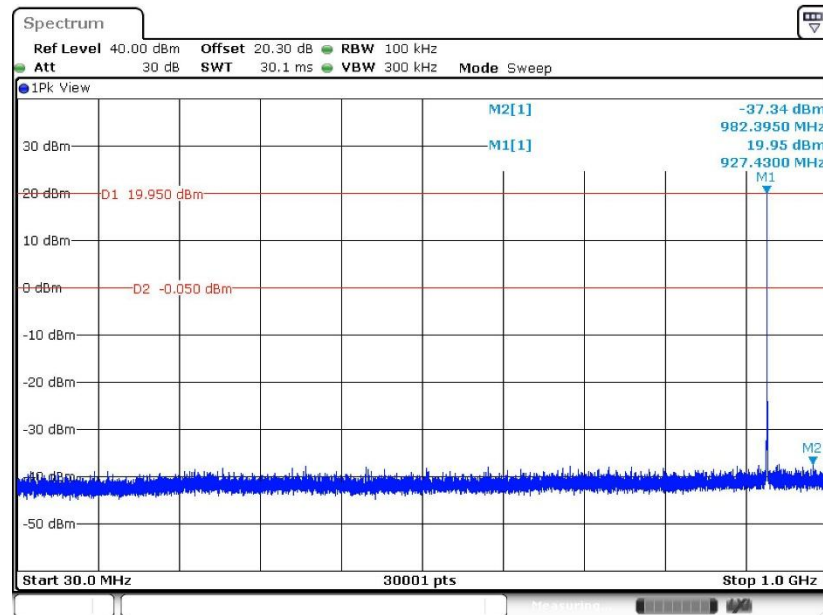
Mid CH CSE Plot



Date: 10.NOV.2025 22:47:25

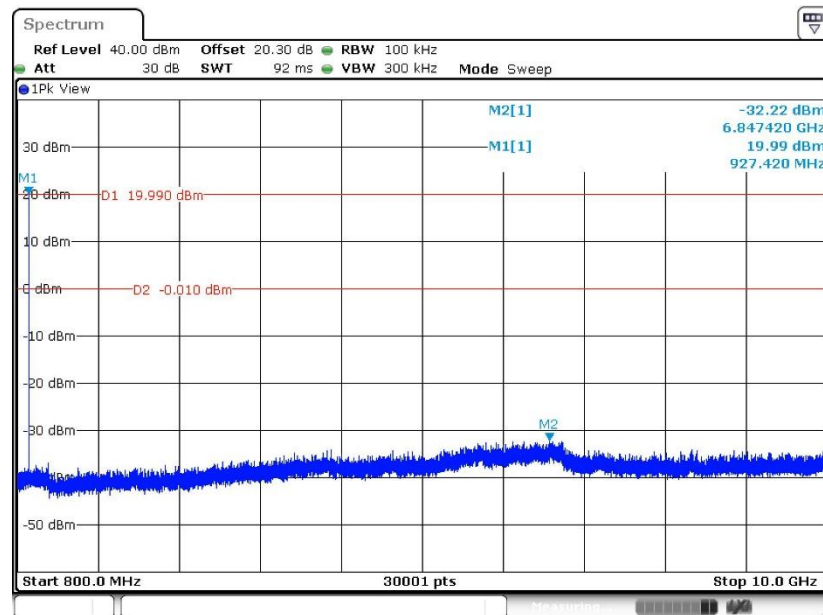


High CH CSE Plot



Date: 10.NOV.2025 22:54:04

High CH CSE Plot



Date: 10.NOV.2025 22:55:16

3.8 Radiated Spurious Emission Measurement

3.8.1 Limit of Radiated Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.8.2 Measuring Instruments

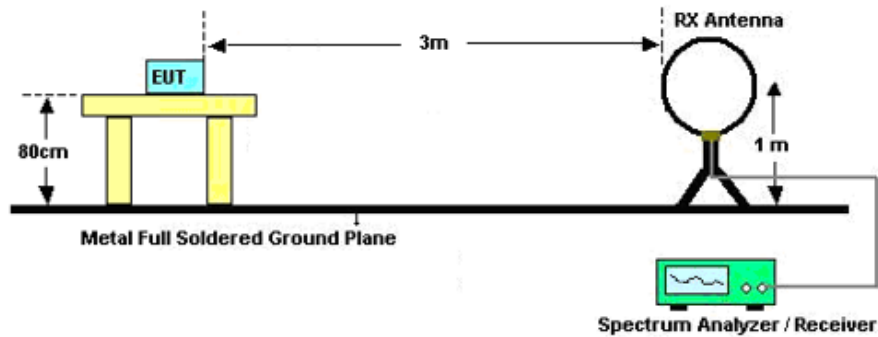
The measuring equipment is listed in the section 4 of this test report.

3.8.3 Test Procedures

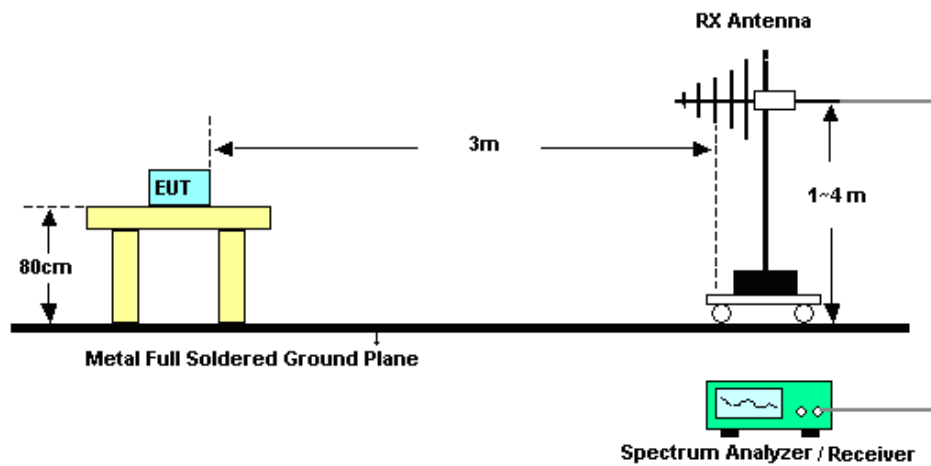
1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5 and 6.6.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1 \text{ GHz}$, RBW=1MHz for $f > 1\text{GHz}$; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method.
Duty cycle = On time/100 milliseconds
On time = $N_1 \cdot L_1 + N_2 \cdot L_2 + \dots + N_{n-1} \cdot L_{n-1} + N_n \cdot L_n$
Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + $20 \cdot \log(\text{Duty cycle})$
7. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
8. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
9. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.8.4 Test Setup

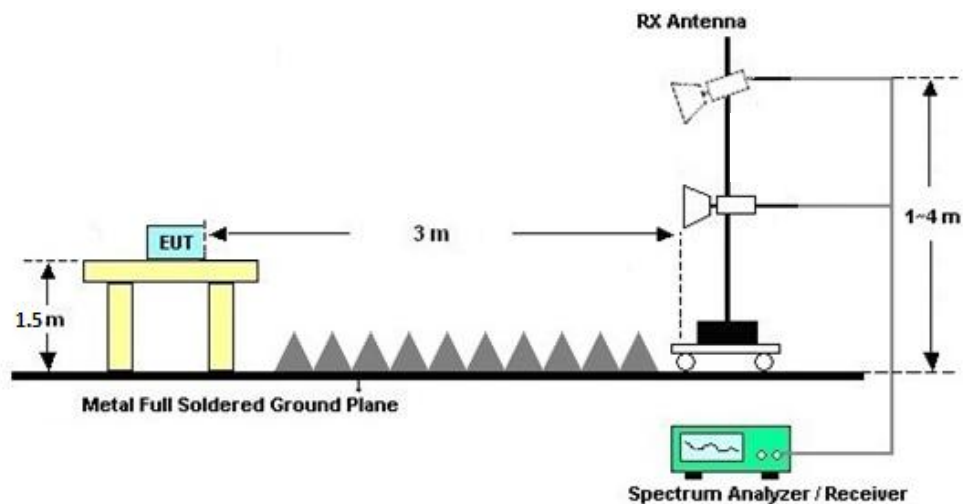
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.8.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.8.6 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B&C.

3.8.7 Duty cycle

Please refer to Appendix D.



3.9 Antenna Requirements

3.9.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.9.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.9.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	Nov. 10, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Nov. 10, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 13, 2025	Nov. 10, 2025	Oct. 12, 2026	Conducted (TH01-SZ)
Attenuator	Woken Tech	WK0602-10	4	10dB	Jan. 13, 2025	Nov. 10, 2025	Jan. 12, 2026	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 02, 2025	Nov. 08, 2025~Dec. 16, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
EXA Signal Analyzer	KEYSIGHT	N9010B	MY59071191	10KHz~44GHz	Apr. 02, 2025	Nov. 08, 2025~Dec. 16, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Nov. 08, 2025~Dec. 16, 2025	Dec. 27, 2025	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Aug. 19, 2025	Nov. 08, 2025~Dec. 16, 2025	Aug. 18, 2026	Radiation (03CH03-SZ)
Double Ridge Guide Antenna	ETS-Lindgren	Burgeon-3117	00240107	1GHz~18GHz	Jul. 13, 2025	Nov. 08, 2025~Dec. 16, 2025	Jul. 12, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Nov. 08, 2025~Dec. 16, 2025	Jul. 02, 2026	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 03, 2025	Nov. 08, 2025~Dec. 16, 2025	Apr. 02, 2027	Radiation (03CH03-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz~3000MHz	Apr. 02, 2025	Nov. 08, 2025~Dec. 16, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 13, 2025	Nov. 08, 2025~Dec. 16, 2025	Oct. 12, 2026	Radiation (03CH03-SZ)
HF Amplifier	Keysight	83017A	MY53270357	500MHz~26.5GHz	Apr. 02, 2025	Nov. 08, 2025~Dec. 16, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 17, 2025	Nov. 08, 2025~Dec. 16, 2025	Oct. 16, 2026	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 08, 2025~Dec. 16, 2025	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 08, 2025~Dec. 16, 2025	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required.

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Conducted Power Spectral Density	± 1.32 dB
Frequency	± 1.3 Hz

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.0dB
--	-------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.9dB
--	-------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.0dB
--	-------

----- THE END -----



Appendix A. Conducted Test Results

FSK-FHSS-50Kbps

Test Engineer:	Sam Zheng	Temperature:	20~26	°C
Test Date:	2025/11/10	Relative Humidity:	40~51	%

TEST RESULTS DATA
20dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	20db BW (MHz)	20db BW Limit (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (MHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
FSK	50Kbps	1	1	902.2	0.104	0.500	0.102	0.200	0.1042	Pass
FSK	50Kbps	1	65	915	0.106	0.500	0.102	0.200	0.1062	Pass
FSK	50Kbps	1	129	927.8	0.108	0.500	0.105	0.200	0.1077	Pass

TEST RESULTS DATA
Dwell Time

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec)	Dwell Time (sec)	Limits (sec)	Pass/Fail
FSK	129	1.00	383.68	0.384	0.4	Pass

TEST RESULTS DATA
Peak Power Table

mode	Freq. (MHz)	NTX	Peak Power (dBm)	Power Setting	Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Test Result
FSK	902.2	1	19.94	22.00	30.00	1.45	21.39	36	Pass
	915	1	19.85	22.00	30.00	1.45	21.30	36	Pass
	927.8	1	19.73	22.00	30.00	1.45	21.18	36	Pass

TEST RESULTS DATA
Number of Hopping Frequency

Number of Hopping (Channel)	Limits (Channel)	Pass/Fail
129	> 50	Pass

FSK-FHSS-150Kbps

Test Engineer:	Sam Zheng	Temperature:	20~26	°C
Test Date:	2025/11/10	Relative Humidity:	40~51	%

TEST RESULTS DATA
20dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	Freq. (MHz)	20db BW (MHz)	20db BW Limit (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (MHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
FSK	150Kbps	1	902.4	0.171	0.500	0.154	0.401	0.1708	Pass
FSK	150Kbps	1	915.2	0.172	0.500	0.156	0.401	0.1722	Pass
FSK	150Kbps	1	927.6	0.170	0.500	0.157	0.401	0.1700	Pass

TEST RESULTS DATA
Dwell Time

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec)	Dwell Time (sec)	Limits (sec)	Pass/Fail
FSK	64	1.00	369.44	0.369	0.4	Pass

TEST RESULTS DATA
Peak Power Table

mode	Freq. (MHz)	NTX	Peak Power (dBm)	Power Setting	Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Test Result
FSK	902.4	1	19.93	22.00	30.00	1.45	21.38	36	Pass
	915.2	1	19.82	22.00	30.00	1.45	21.27	36	Pass
	927.6	1	19.80	22.00	30.00	1.45	21.25	36	Pass

TEST RESULTS DATA
Number of Hopping Frequency

Number of Hopping (Channel)	Limits (Channel)	Pass/Fail
64	> 50	Pass

FSK-FHSS-250Kbps

Test Engineer:	Sam Zheng	Temperature:	20~26	°C
Test Date:	2025/11/10	Relative Humidity:	40~51	%

TEST RESULTS DATA
20dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	Freq. (MHz)	20db BW (MHz)	20db BW Limit (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (MHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
FSK	250Kbps	1	902.5	0.263	0.500	0.252	0.499	0.2634	Pass
FSK	250Kbps	1	915	0.264	0.500	0.252	0.499	0.2641	Pass
FSK	250Kbps	1	927.5	0.262	0.500	0.251	0.499	0.2619	Pass

TEST RESULTS DATA
Dwell Time

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec)	Dwell Time (sec)	Limits (sec)	Pass/Fail
FSK	51	1.00	378.44	0.378	0.4	Pass

TEST RESULTS DATA
Peak Power Table

mode	Freq. (MHz)	NTX	Peak Power (dBm)	Power Setting	Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Test Result
FSK	902.5	1	19.95	22.00	30.00	1.45	21.40	36	Pass
	915	1	19.87	22.00	30.00	1.45	21.32	36	Pass
	927.5	1	19.75	22.00	30.00	1.45	21.20	36	Pass

TEST RESULTS DATA
Number of Hopping Frequency

Number of Hopping (Channel)	Limits (Channel)	Pass/Fail
51	> 50	Pass



Appendix B. Radiated Spurious Emission

FSK 50K(Harmonic @ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	(dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
902.2MHz		1804.4	41.52	-48.06	89.58	62.15	30.63	6.64	57.9	-	-	P	H
		2706.6	46.03	-27.97	74	62.96	32.3	8.61	57.84	105	166	P	H
		2706.6	45.67	-8.33	54	62.6	32.3	8.61	57.84	105	166	A	H
		3608.8	42.3	-31.7	74	57.73	32.9	9.67	58	-	-	P	H
		8119.8	50.1	-23.9	74	61.59	35.84	11.93	59.26	212	90	P	H
		8119.8	49.74	-4.26	54	61.23	35.84	11.93	59.26	212	90	A	H
		1804.4	47.04	-42.27	89.31	67.67	30.63	6.64	57.9	-	-	P	V
		2706.6	46.56	-27.44	74	63.49	32.3	8.61	57.84	177	109	P	V
		2706.6	46.2	-7.8	54	63.13	32.3	8.61	57.84	177	109	A	V
		3608.8	43.11	-30.89	74	58.54	32.9	9.67	58	-	-	P	V
		8119.8	49.99	-24.01	74	61.48	35.84	11.93	59.26	100	238	P	V
		8119.8	49.63	-4.37	54	61.12	35.84	11.93	59.26	100	238	A	V
915MHz		2745	45.8	-28.2	74	62.78	32.25	8.62	57.85	142	185	P	H
		2745	45.44	-8.56	54	62.42	32.25	8.62	57.85	142	185	A	H
		3660	42.25	-31.75	74	57.61	33	9.64	58	-	-	P	H
		8235	49.37	-24.63	74	60.65	35.8	12.03	59.11	100	128	P	H
		8235	49.01	-4.99	54	60.29	35.8	12.03	59.11	100	128	A	H
		1830	44.15	-45.26	89.41	64.56	30.77	6.72	57.9	-	-	P	V
		2745	46.18	-27.82	74	63.16	32.25	8.62	57.85	116	245	P	V
		2745	45.82	-8.18	54	62.8	32.25	8.62	57.85	116	245	A	V
		3660	43.22	-30.78	74	58.58	33	9.64	58	-	-	P	V
		8235	48.67	-25.33	74	59.95	35.8	12.03	59.11	100	240	P	V
		8235	48.31	-5.69	54	59.59	35.8	12.03	59.11	100	240	A	V
927.8MHz		1855.6	47.6	-40.02	87.62	67.59	31.03	6.88	57.9	-	-	P	H
		2783.4	45.31	-28.69	74	62.32	32.22	8.63	57.86	100	124	P	H
		2783.4	44.95	-9.05	54	61.96	32.22	8.63	57.86	100	124	A	H
		3711.2	44.26	-29.74	74	59.55	33.1	9.61	58	-	-	P	H
		8350.2	50.42	-23.58	74	61.52	35.8	12.07	58.97	100	218	P	H
		8350.2	50.06	-3.94	54	61.16	35.8	12.07	58.97	100	218	A	H



		1855.6	43.62	-45.98	89.6	63.61	31.03	6.88	57.9	-	-	P	V
		2783.4	46.15	-27.85	74	63.16	32.22	8.63	57.86	100	236	P	V
		2783.4	45.79	-8.21	54	62.80	32.22	8.63	57.86	100	236	A	V
		3711.2	43.12	-30.88	74	58.41	33.1	9.61	58	-	-	P	V
		8350.2	49.56	-24.44	74	60.66	35.8	12.07	58.97	100	126	P	V
		8350.2	49.20	-4.80	54	60.30	35.8	12.07	58.97	100	126	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

FSK 150K(Harmonic @ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.4MHz		1804.8	42.54	-46.51	89.05	63.17	30.63	6.64	57.9	-	-	P	H
		2707.2	46.71	-27.29	74	63.66	32.28	8.61	57.84	135	224	P	H
		2707.2	45.45	-8.55	54	62.4	32.28	8.61	57.84	135	224	A	H
		3609.6	43.84	-30.16	74	59.27	32.9	9.67	58	-	-	P	H
		8121.6	50.28	26222	74	61.77	35.84	11.93	59.26	100	239	P	H
		8121.6	49.02	-4.98	54	60.51	35.84	11.93	59.26	100	239	A	H
		1804.8	45	-44.45	89.45	65.63	30.63	6.64	57.9	-	-	P	V
		2707.2	44.71	-29.29	74	61.66	32.28	8.61	57.84	132	124	P	V
		2707.2	43.45	-10.55	54	60.4	32.28	8.61	57.84	132	124	A	V
		3609.6	43.45	-30.55	74	58.88	32.9	9.67	58	-	-	P	V
		8121.6	49.17	-24.83	74	60.66	35.84	11.93	59.26	100	112	P	V
		8121.6	47.91	-6.09	54	59.4	35.84	11.93	59.26	100	112	A	V
915.2MHz		1830.4	41.06	-48.09	89.15	61.47	30.77	6.72	57.9	-	-	P	H
		2745.6	45.65	-28.35	74	62.63	32.25	8.62	57.85	100	66	P	H
		2745.6	44.39	-9.61	54	61.37	32.25	8.62	57.85	100	66	A	H
		3660.8	41.55	-32.45	74	56.91	33	9.64	58	-	-	P	H
		8236.8	49.5	-24.5	74	60.78	35.8	12.03	59.11	100	125	P	H
		8236.8	48.24	-5.76	54	59.52	35.8	12.03	59.11	100	125	A	H
		1830.4	46.01	-43.46	89.47	66.42	30.77	6.72	57.9	-	-	P	V
		2745.6	46.5	-27.5	74	63.48	32.25	8.62	57.85	192	244	P	V
		2745.6	45.24	-8.76	54	62.22	32.25	8.62	57.85	192	244	A	V



		3660.8	41.59	-32.41	74	56.95	33	9.64	58	-	-	P	V
		8236.8	47.43	-26.57	54	58.71	35.8	12.03	59.11	100	243	P	V
		8236.8	48.69	-5.31	54	59.97	35.8	12.03	59.11	100	243	A	V
927.6MHz		1855.2	46.49	-39.33	85.82	66.48	31.03	6.88	57.9	-	-	P	H
		2782.8	46.15	-27.85	74	63.16	32.22	8.63	57.86	211	284	P	H
		2782.8	44.89	-9.11	54	61.9	32.22	8.63	57.86	211	284	A	H
		3710.4	41.92	-32.08	74	57.21	33.1	9.61	58	-	-	P	H
		8348.4	50.13	-23.87	74	61.23	35.8	12.07	58.97	142	185	P	H
		8348.4	48.87	-5.13	54	59.97	35.8	12.07	58.97	142	185	A	H
		1855.2	55.44	-32.18	87.62	75.43	31.03	6.88	57.9	-	-	P	V
		2782.8	46.81	-27.19	74	63.82	32.22	8.63	57.86	124	196	P	V
		2782.8	45.55	-8.45	54	62.56	32.22	8.63	57.86	124	196	A	V
		3710.4	41.79	-32.21	74	57.08	33.1	9.61	58	-	-	P	V
		8348.4	48.65	-25.35	74	59.75	35.8	12.07	58.97	100	229	P	V
		8348.4	47.39	-6.61	54	58.49	35.8	12.07	58.97	100	229	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



FSK 250K(Harmonic @ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	(dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	
902.5MHz		1805	42.41	-48.17	90.58	63.04	30.63	6.64	57.9	-	-	P	H
		2707.5	45.93	-28.07	74	62.88	32.28	8.61	57.84	126	236	P	H
		2707.5	43.71	-10.29	54	60.66	32.28	8.61	57.84	126	236	A	H
		3610	42.71	-31.29	74	58.12	32.93	9.66	58	-	-	P	H
		8122.5	50.11	-23.89	74	61.6	35.84	11.93	59.26	100	246	P	H
		8122.5	47.89	-6.11	54	59.38	35.84	11.93	59.26	100	246	A	H
		1805	48.44	-40.45	88.89	69.07	30.63	6.64	57.9	-	-	P	V
		2707.5	46.16	-27.84	74	63.11	32.28	8.61	57.84	162	190	P	V
		2707.5	43.94	-10.06	54	60.89	32.28	8.61	57.84	162	190	A	V
		3610	42.97	-31.03	74	58.38	32.93	9.66	58	-	-	P	V
		8122.5	48.77	-25.23	74	60.26	35.84	11.93	59.26	100	269	P	V
		8122.5	46.55	-7.45	54	58.04	35.84	11.93	59.26	100	269	A	V
915.0MHz		1830	47.28	-43.33	90.61	67.69	30.77	6.72	57.9	-	-	P	H
		2745	46.72	-27.28	74	63.7	32.25	8.62	57.85	188	288	P	H
		2745	44.5	-9.5	54	61.48	32.25	8.62	57.85	188	288	A	H
		3660	42.44	-31.56	74	57.8	33	9.64	58	-	-	P	H
		8235	49.41	-24.59	74	60.69	35.8	12.03	59.11	100	236	P	H
		8235	47.19	-6.81	54	58.47	35.8	12.03	59.11	100	236	A	H
		1830	52.58	-36.2	88.78	72.99	30.77	6.72	57.9	-	-	P	V
		2745	47.27	-26.73	74	64.25	32.25	8.62	57.85	251	186	P	V
		2745	45.05	-8.95	54	62.03	32.25	8.62	57.85	251	186	A	V
		3660	42.04	-31.96	74	57.4	33	9.64	58			P	V
		8235	48.28	-25.72	74	59.56	35.8	12.03	59.11	100	285	P	V
		8235	46.06	-7.94	54	57.34	35.8	12.03	59.11	100	285	A	V
927.5MHz		1855	50.05	-39.42	89.47	70.04	31.03	6.88	57.9	-	-	P	H
		2782.5	46.03	-27.97	74	63.04	32.22	8.63	57.86	106	219	P	H
		2782.5	43.81	-10.19	54	60.82	32.22	8.63	57.86	106	219	A	H
		3710	43.08	-30.92	74	58.37	33.1	9.61	58	-	-	P	H
		8347.5	49.65	-24.35	74	60.75	35.8	12.07	58.97	100	236	P	H
		8347.5	47.43	-6.57	54	58.53	35.8	12.07	58.97	100	236	A	H
		1855	53.68	-54.92	88.28	73.67	31.03	6.88	57.9	-	-	P	V



		2782.5	46.81	-27.19	74	63.82	32.22	8.63	57.86	126	322	P	V
		2782.5	44.59	-9.41	54	61.61	32.22	8.63	57.86	126	322	A	V
		3710	41.9	-32.1	74	57.19	33.1	9.61	58	-	-	P	V
		8347.5	48.62	-25.38	74	59.72	35.8	12.07	58.97	100	322	P	V
		8347.5	46.40	-7.60	54	57.50	35.8	12.07	58.97	100	322	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



<30Mhz-1G>

FSK 50K(LF @ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.2MHz		133.79	21.48	-22.02	43.5	35.47	16.53	1.18	31.7	-	-	P	H
		278.32	24.3	-21.7	46	35.2	18.9	1.74	31.54	-	-	P	H
	*	902.2	109.58	----	----	108.29	29.13	3.16	31	-	-	P	H
		130.88	20.82	-22.68	43.5	34.87	16.48	1.17	31.7	-	-	P	V
		276.38	24.33	-21.67	46	35.27	18.88	1.73	31.55	-	-	P	V
	*	902.2	109.31	----	----	108.02	29.13	3.16	31	-	-	P	V
915MHz		135.73	21.1	-22.4	43.5	35.74	18.01	2.25	34.9	-	-	P	H
		281.23	23.02	-22.98	46	35.85	18.77	3.14	34.74	-	-	P	H
	*	915	109.61	----	----	109.82	29.34	4.45	34	-	-	P	H
		135.73	21.23	-22.27	43.5	35.87	18.01	2.25	34.9	-	-	P	V
		278.32	23.06	-22.94	46	36	18.68	3.12	34.74	-	-	P	V
	*	915	109.41	----	----	109.62	29.34	4.45	34	-	-	P	V
927.8MHz		137.67	21.76	-21.74	43.5	35.66	16.6	1.2	31.7	-	-	P	H
		275.41	24.56	-21.44	46	35.51	18.87	1.73	31.55	-	-	P	H
	*	927.8	107.62	----	----	105.48	29.88	3.2	30.94	-	-	P	H
		133.79	21.88	-21.62	43.5	35.87	16.53	1.18	31.7	-	-	P	V
		285.11	25.98	-20.02	46	36.76	18.99	1.76	31.53	-	-	P	V
	*	927.8	109.6	----	----	107.46	29.88	3.2	30.94	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



FSK 150K(LF @ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.4MHz		137.67	21.08	-22.42	43.5	34.98	16.6	1.2	31.7	-	-	P	H
		282.2	24.46	-21.54	46	35.29	18.96	1.75	31.54	-	-	P	H
	*	902.4	109.05	----	----	107.75	29.14	3.16	31	-	-	P	H
		127.97	21.2	-22.3	43.5	35.31	16.43	1.16	31.7	-	-	P	V
		284.14	25.18	-20.82	46	35.98	18.98	1.75	31.53	-	-	P	V
	*	902.4	109.45	----	----	108.15	29.14	3.16	31	-	-	P	V
915.2MHz		130.88	21.41	-22.09	43.5	36.36	17.73	2.22	34.9	-	-	P	H
		273.47	23.08	-22.92	46	36.21	18.52	3.1	34.75	-	-	P	H
	*	915.2	109.15	----	----	109.36	29.34	4.45	34	-	-	P	H
		130.88	20.79	-22.71	43.5	35.74	17.73	2.22	34.9	-	-	P	V
		275.41	23.91	-22.09	46	36.96	18.59	3.11	34.75	-	-	P	V
	*	915.2	109.47	----	----	109.68	29.34	4.45	34	-	-	P	V
927.6MHz		131.85	21.56	-21.94	43.5	35.59	16.5	1.17	31.7	-	-	P	H
		257.95	24.4	-21.6	46	35.68	18.63	1.67	31.58	-	-	P	H
		927.6	105.82	----	----	103.69	29.87	3.2	30.94	-	-	P	H
		124.09	21.47	-22.03	43.5	35.67	16.36	1.14	31.7	-	-	P	V
		264.74	25.07	-20.93	46	36.23	18.72	1.69	31.57	-	-	P	V
		927.6	107.62	----	----	105.49	29.87	3.2	30.94	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



FSK 250K(LF @ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		125.06	21.01	-22.49	43.5	35.19	16.38	1.14	31.7	-	-	P	H
		277.35	24.75	-21.25	46	35.68	18.89	1.73	31.55	-	-	P	H
	*	902.5	110.58	----	----	109.28	29.14	3.16	31	-	-	P	H
		127.97	20.92	-22.58	43.5	35.03	16.43	1.16	31.7	-	-	P	V
		274.44	24.28	-21.72	46	35.26	18.85	1.72	31.55	-	-	P	V
	*	902.5	108.89	----	----	107.59	29.14	3.16	31	-	-	P	V
915MHz		128.94	22.18	-21.32	43.5	37.26	17.62	2.2	34.9	-	-	P	H
		279.29	22.9	-23.1	46	35.8	18.71	3.13	34.74	-	-	P	H
	*	915	110.61	----	----	110.82	29.34	4.45	34	-	-	P	H
		132.82	21.1	-22.4	43.5	35.93	17.84	2.23	34.9	-	-	P	V
		279.29	23.07	-22.93	46	35.97	18.71	3.13	34.74	-	-	P	V
	*	915	108.78	----	----	108.99	29.34	4.45	34	-	-	P	V
927.5MHz		123.12	21.16	-22.34	43.5	35.39	16.34	1.13	31.7	-	-	P	H
		271.53	24.75	-21.25	46	35.79	18.81	1.71	31.56	-	-	P	H
	*	927.5	109.47	----	----	107.34	29.87	3.2	30.94	-	-	P	H
		130.88	21.5	-22	43.5	35.55	16.48	1.17	31.7	-	-	P	V
		283.17	24.4	-21.6	46	35.21	18.97	1.75	31.53	-	-	P	V
	*	927.5	108.28	----	----	106.15	29.87	3.2	30.94	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Appendix C. Radiated Spurious Emission Plots

FSK 50Kbps FHSS 50Kbps (Harmonic @ 3m)

LoRa

ANT

Harmonic @ 3m

FSK 50Kbps FHSS 50Kbps CH01 902.2 MHz

Horizontal

Peak

Data: 1

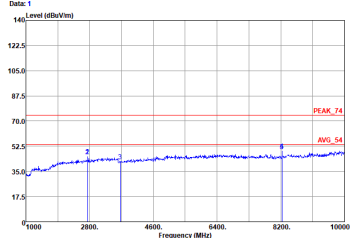
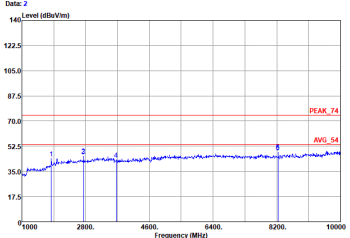
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1804.40	41.52	-----	74.00	62.15	30.63	6.64	57.90	---	---	Peak
2	2786.60	46.83	-27.97	74.00	62.96	32.30	8.61	57.84	185	166	Peak
3	2786.60	45.67	-8.33	54.00	62.60	32.30	8.61	57.84	185	166	Average
4	3608.00	42.30	-31.70	74.00	57.73	32.90	9.67	58.00	---	---	Peak
5	8119.00	50.10	-23.90	74.00	61.59	35.84	11.93	59.26	212	90	Peak
6	8119.00	49.74	-4.26	54.00	61.23	35.84	11.93	59.26	212	90	Average

Vertical

Data: 2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1804.40	47.84	-----	74.00	67.67	30.63	6.64	57.90	---	---	Peak
2	2786.60	46.56	-27.44	74.00	63.49	32.30	8.61	57.84	177	189	Peak
3	2786.60	46.20	-7.80	54.00	63.13	32.30	8.61	57.84	177	189	Average
4	3608.00	43.11	-30.89	74.00	58.54	32.90	9.67	58.00	---	---	Peak
5	8119.00	49.99	-24.01	74.00	61.48	35.84	11.93	59.26	100	238	Peak
6	8119.00	49.63	-4.37	54.00	61.12	35.84	11.93	59.26	100	238	Average



LoRa	Harmonic @ 3m																																																																																																																																													
ANT	FSK 50Kbps FHSS 50Kbps CH65 915 MHz																																																																																																																																													
	Horizontal					Vertical																																																																																																																																								
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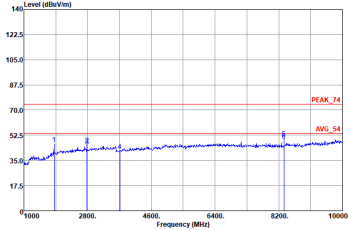
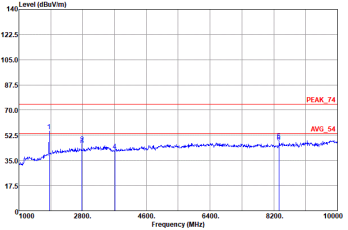
FSK 150Kbps FHSS 150Kbps (Harmonic @ 3m)

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4	3699.68	43.45	-30.55	74.00	58.08	32.90	9.67	58.00	- Peak																																																																																																																																																									
5	8121.68	49.17	-24.83	74.00	60.66	35.84	11.93	59.26	100 112 Peak																																																																																																																																																									
6	8121.68	47.91	-6.09	54.00	59.40	35.84	11.93	59.26	100 112 Average																																																																																																																																																									



LoRa	Harmonic @ 3m									
ANT	FSK 150Kbps FHSS 150Kbps CH33 915.2 MHz									
	Horizontal					Vertical				
Peak	Date: 1 Level (dBuV/m) </									



LoRa	Harmonic @ 3m	
ANT	FSK 150Kbps FHSS 150Kbps CH64 927.6 MHz	
	Horizontal	Vertical
Peak	Date: 1  1855.28 46.49 74.00 66.48 31.03 6.88 57.90 --- Peak 2782.89 46.15 74.00 63.16 32.22 8.63 57.86 211 284 Peak 2782.89 44.89 74.00 61.90 32.22 8.63 57.86 211 284 Average 3718.48 41.92 74.00 57.21 33.10 9.61 58.00 --- Peak 8348.48 58.13 74.00 61.23 35.00 12.07 58.97 142 185 Peak 8348.48 48.87 74.00 59.97 35.00 12.07 58.97 142 185 Average	Date: 2  1855.28 55.44 74.00 75.43 31.03 6.88 57.90 --- Peak 2782.89 46.81 74.00 63.82 32.22 8.63 57.86 124 196 Peak 2782.89 45.55 74.00 62.56 32.22 8.63 57.86 124 196 Average 3718.48 41.79 74.00 57.08 33.10 9.61 58.00 --- Peak 8348.48 48.65 74.00 59.75 35.00 12.07 58.97 100 229 Peak 8348.48 47.39 74.00 58.49 35.00 12.07 58.97 100 229 Average



FSK 250Kbps FHSS 250Kbps (Harmonic @ 3m)

LoRa	Harmonic @ 3m																																																																																																																																																																	
ANT	FSK 250Kbps FHSS 250Kbps CH01 902.5 MHz																																																																																																																																																																	
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LoRa	Harmonic @ 3m																																																																																					
ANT	FSK 250Kbps FHSS 250Kbps CH26 915 MHz																																																																																					
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LoRa	Harmonic @ 3m										
ANT	FSK 250Kbps FHSS 250Kbps CH51 927.5MHz										
	Horizontal										
	Vertical										
Peak	Date: 1 Level (dBuV/m) </										



<30Mhz-1G>

FSK 50Kbps FHSS 50Kbps (LF @ 3m)

LoRa	LF @ 3m																																																																																																									
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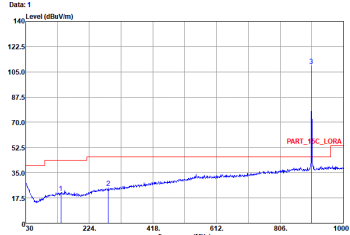
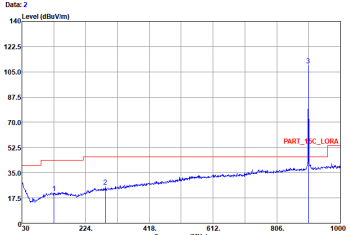
LoRa	LF @ 3m										
ANT	FSK 50Kbps FHSS 50Kbps CH65 915 MHz										



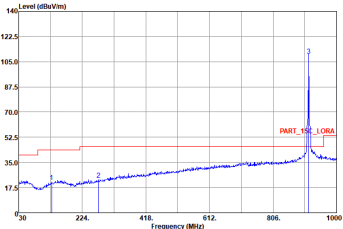
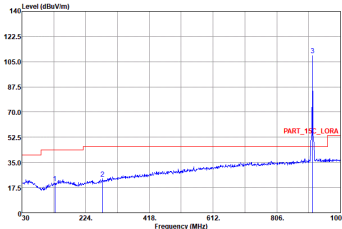
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FSK 150Kbps FHSS 150Kbps (LF @ 3m)

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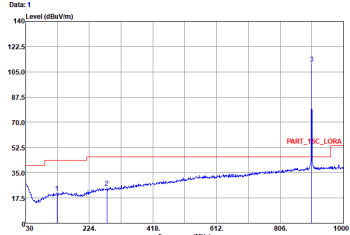
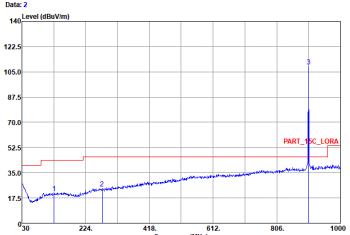
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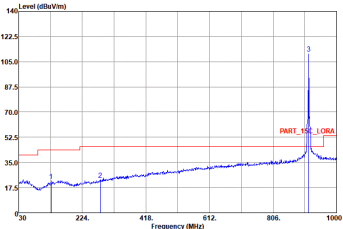
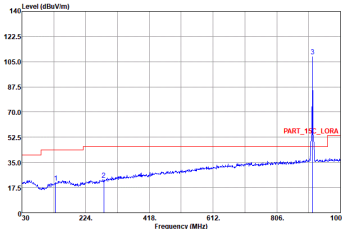
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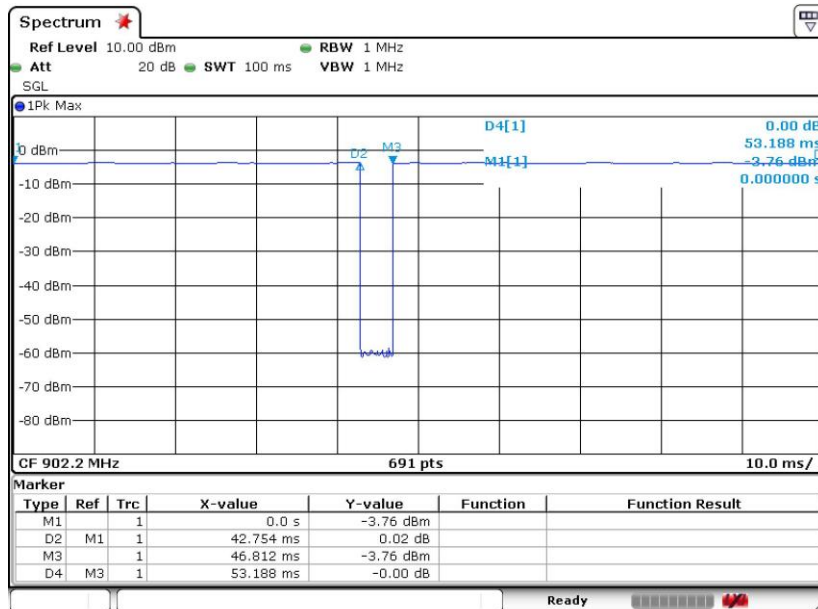
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Appendix D. Duty Cycle Plots

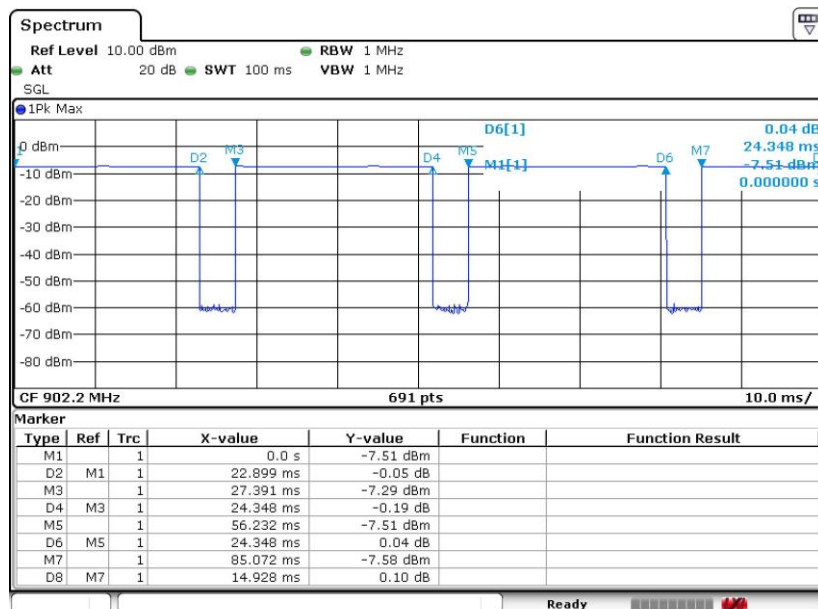
FSK(FHSS)50kbps on time Plot



Note:

1. Worst case Duty cycle = on time/100 milliseconds = 95.94 %
2. Worst case Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = -0.36 \text{ dB}$

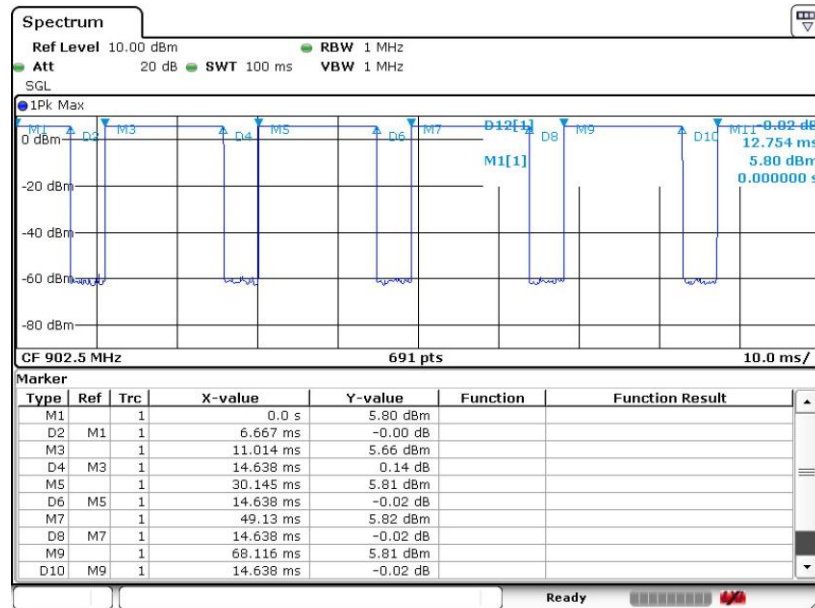
FSK(FHSS)150kbps on time Plot



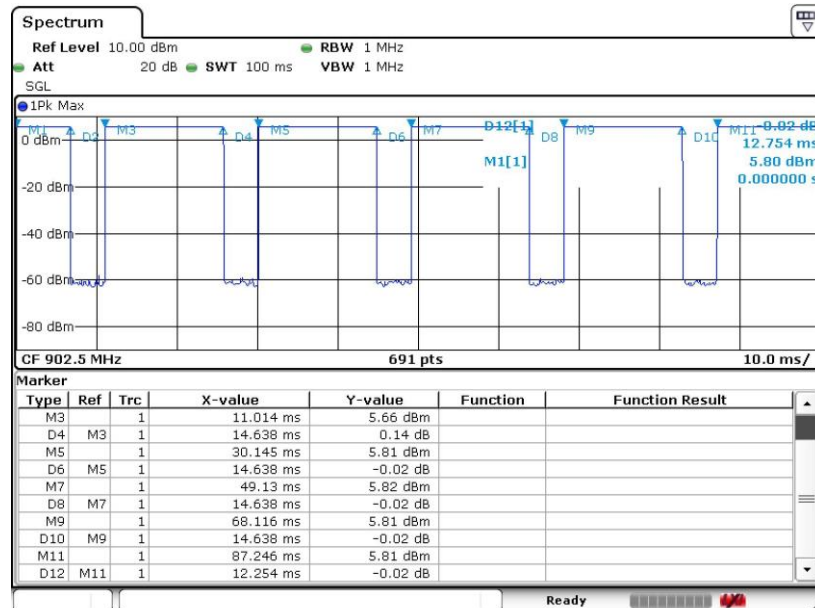
Note:

1. Worst case Duty cycle = on time/100 milliseconds = 86.52 %
2. Worst case Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = -1.26 \text{ dB}$

FSK 250Kbps on time Plot 1



FSK 250Kbps on time Plot 2



Note:

1. Worst case Duty cycle = on time/100 milliseconds = 77.47 %
2. Worst case Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = -2.22 \text{ dB}$