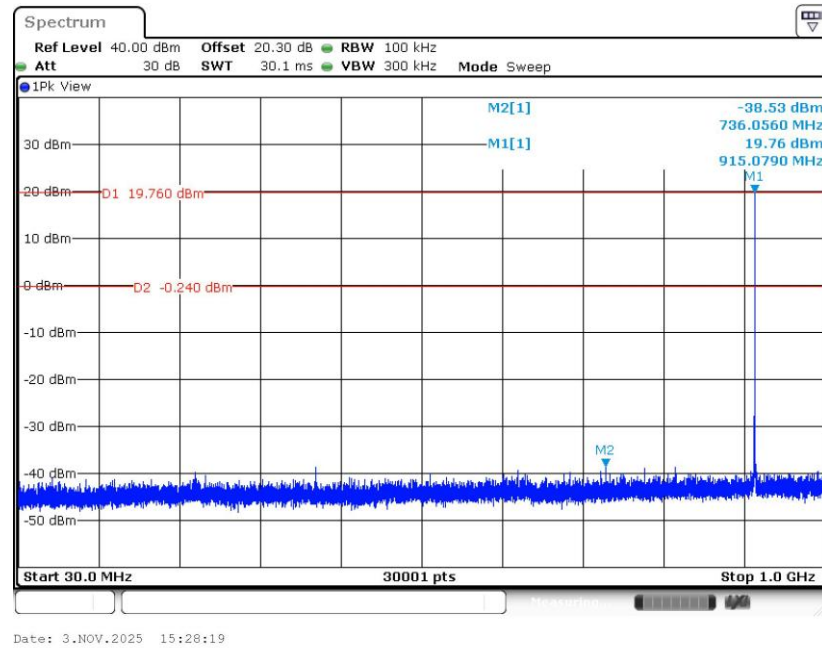
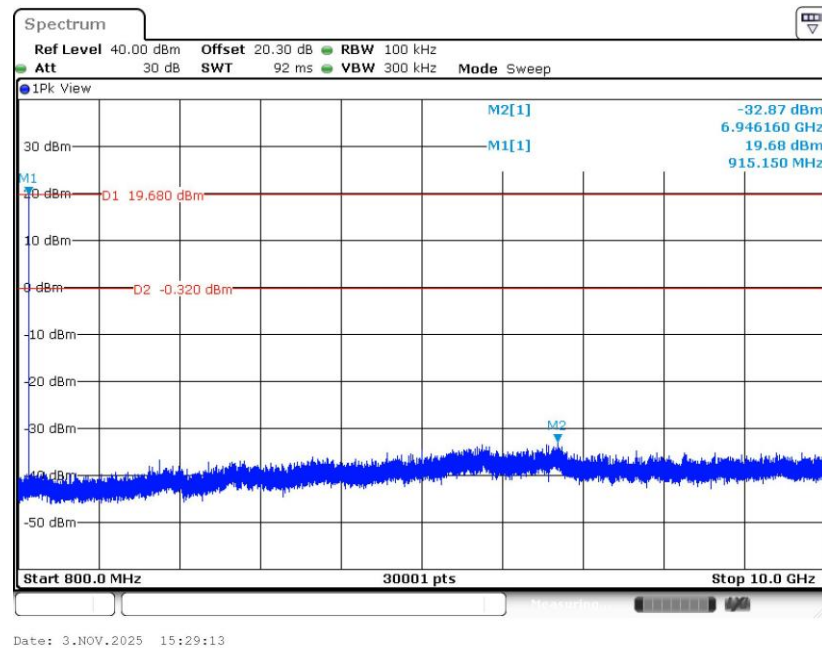




Mid CH CSE Plot

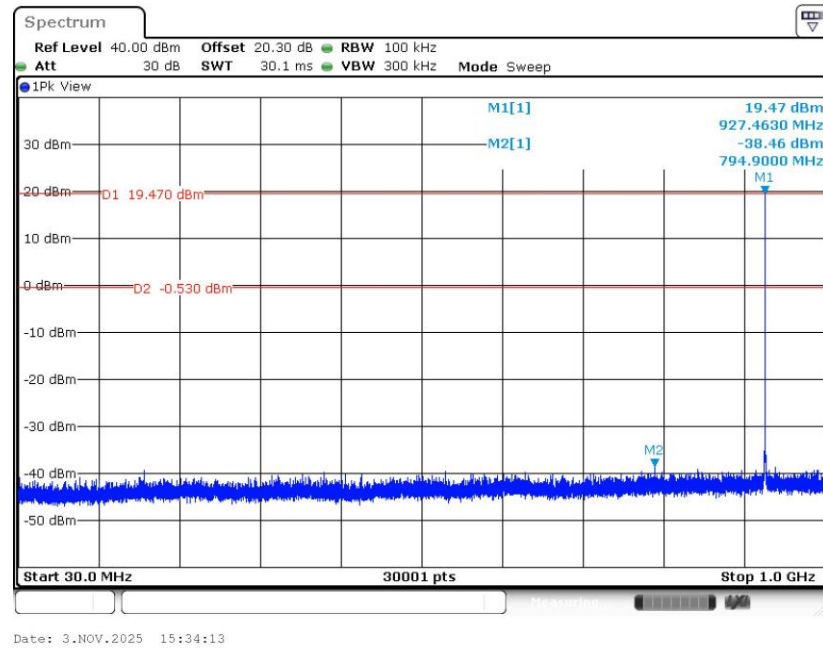


Mid CH CSE Plot

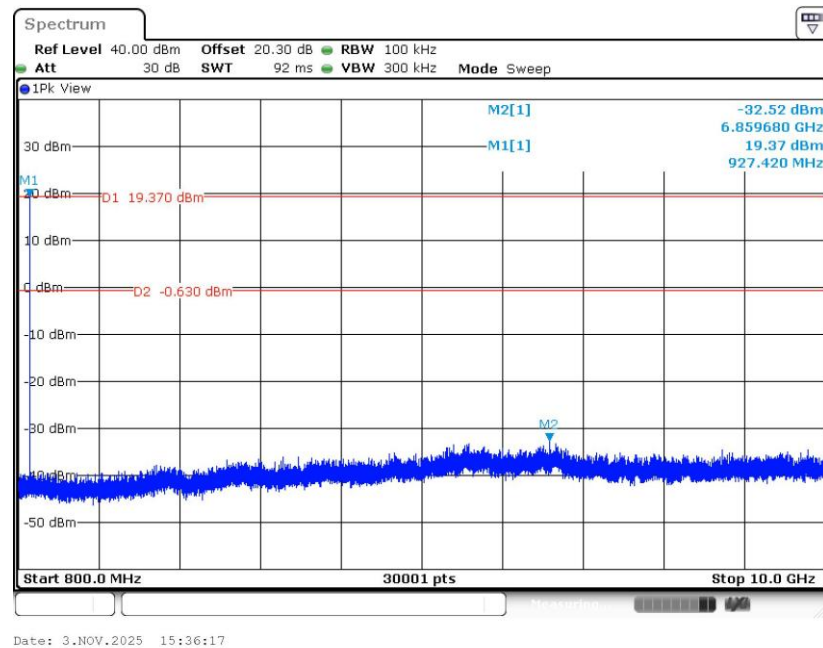




High CH CSE Plot



High CH CSE Plot



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

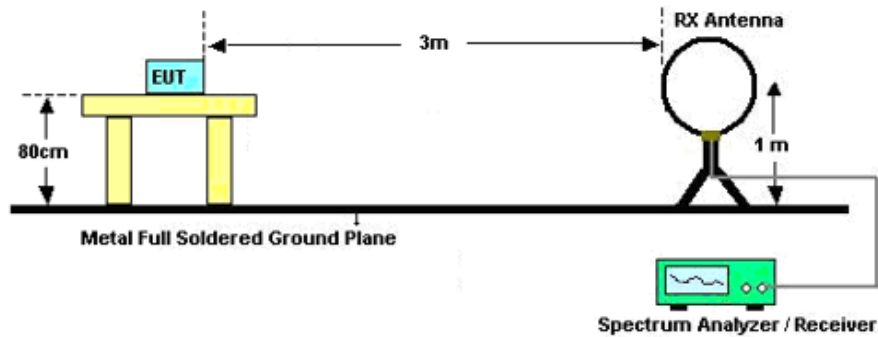
The measuring equipment is listed in the section 4 of this test report.

3.8.3 Test Procedures

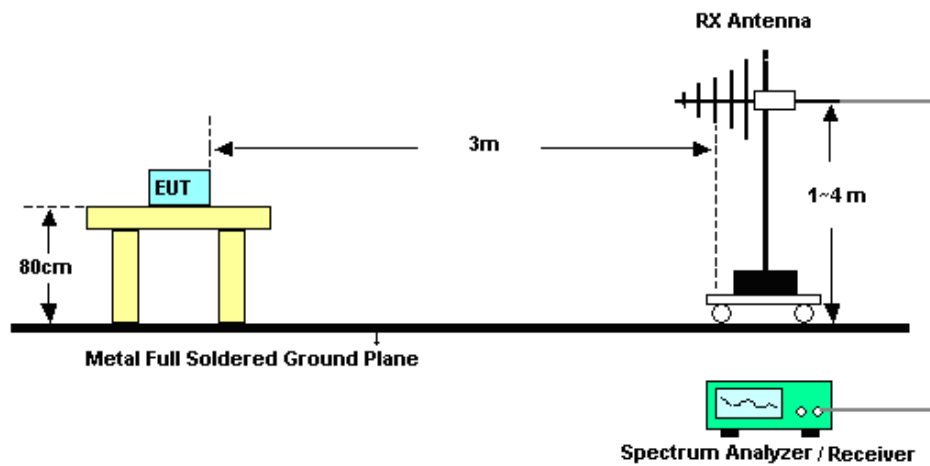
1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5 and 6.6.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the 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
 $\text{On time} = N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$
Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + $20 * \log(\text{Duty cycle})$
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

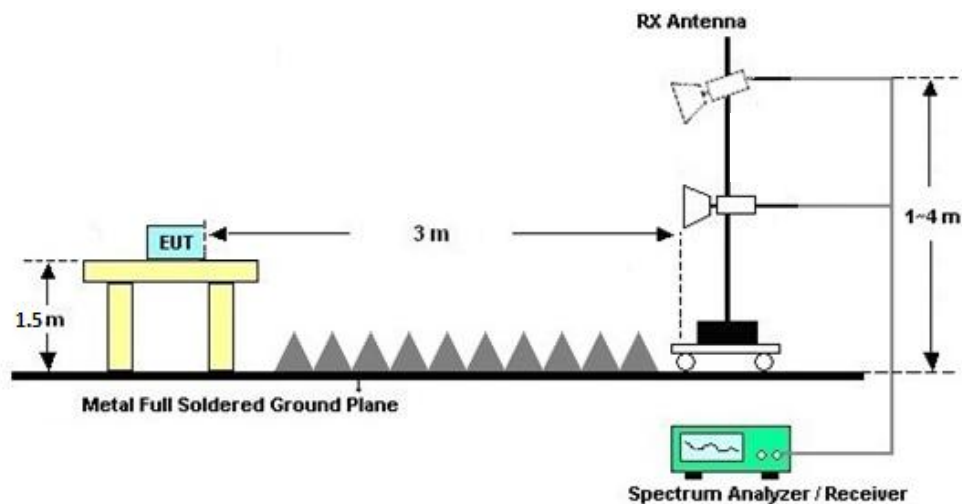
For radiated emissions below 30MHz



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 C&D.

3.8.7 Duty cycle

Please refer to Appendix E.

3.9 AC Conducted Emission Measurement

3.9.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

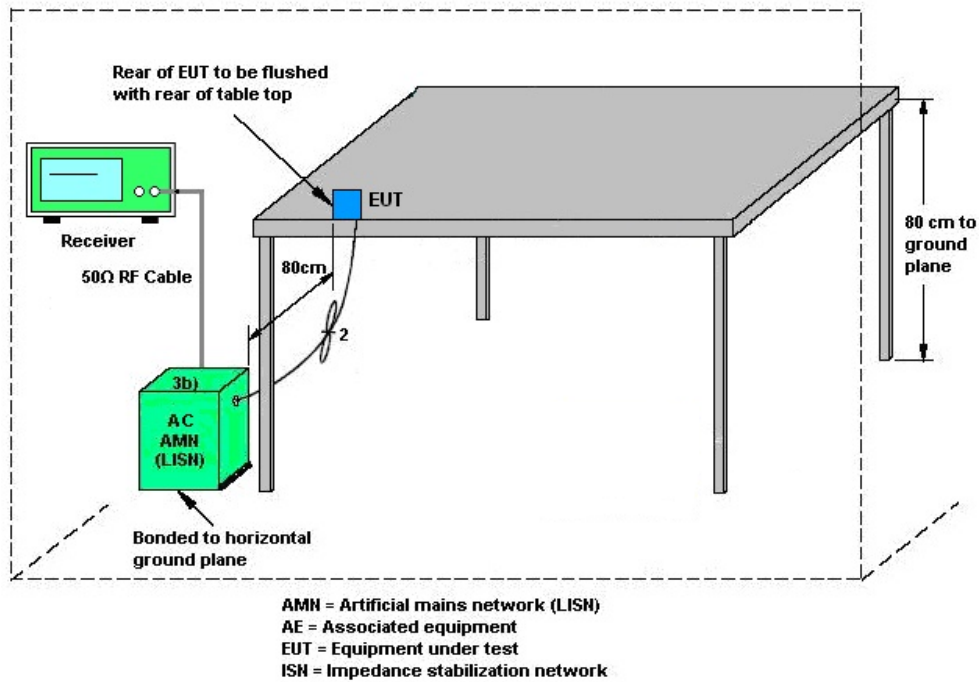
3.9.2 Measuring Instruments

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

3.9.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.9.4 Test Setup



3.9.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.10 Antenna Requirements

3.10.1 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.

3.10.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.10.3 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. 03, 2025~ Nov. 04, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Nov. 03, 2025~ Nov. 04, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 13, 2025	Nov. 03, 2025~ Nov. 04, 2025	Oct. 12, 2026	Conducted (TH01-SZ)
Attenuator	Woken Tech	WK0602-10	4	10dB	Jan. 13, 2025	Nov. 03, 2025~ Nov. 04, 2025	Jan. 12, 2026	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 02, 2025	Nov. 01, 2025~ Dec. 02, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
EXA Signal Analyzer	KEYSIGHT	N9010B	MY59071191	10KHz~44GHz	Apr. 02, 2025	Nov. 01, 2025~ Dec. 02, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Nov. 01, 2025~ Dec. 02, 2025	Dec. 27, 2025	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Aug. 19, 2025	Nov. 01, 2025~ Dec. 02, 2025	Aug. 18, 2026	Radiation (03CH03-SZ)
Double Ridge Guide Antenna	ETS-Lindgren	Burgeon-3117	00240107	1GHz~18GHz	Jul. 13, 2025	Nov. 01, 2025~ Dec. 02, 2025	Jul. 12, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Nov. 01, 2025~ Dec. 02, 2025	Jul. 02, 2026	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 03, 2025	Nov. 01, 2025~ Dec. 02, 2025	Apr. 02, 2027	Radiation (03CH03-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz~3000MHz	Apr. 02, 2025	Nov. 01, 2025~ Dec. 02, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 13, 2025	Nov. 01, 2025~ Dec. 02, 2025	Oct. 12, 2026	Radiation (03CH03-SZ)
HF Amplifier	Keysight	83017A	MY53270357	500MHz~26.5GHz	Apr. 02, 2025	Nov. 01, 2025~ Dec. 02, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 17, 2025	Nov. 01, 2025~ Dec. 02, 2025	Oct. 16, 2026	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 01, 2025~ Dec. 02, 2025	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 01, 2025~ Dec. 02, 2025	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 02, 2025	Nov. 13, 2025	Jul. 01, 2026	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2025	Nov. 13, 2025	Jul. 02, 2026	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	616010002470	100Vac~250Vac	Dec. 25, 2024	Nov. 13, 2025	Dec. 24, 2025	Conduction (CO02-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 AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB
---	-------

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

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

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

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

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

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

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



Appendix A. Conducted Test Results

FSK-FHSS-50Kbps

Test Engineer:	Liu Qiu Qiu	Temperature:	20~26	°C
Test Date:	2025/11/3~ 2025/11/4	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	0.106	0.500	0.103	0.200	0.1059	Pass
FSK	50Kbps	1	65	915	0.107	0.500	0.105	0.200	0.1068	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	383.44	0.383	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	21.36	22.00	30.00	0.45	21.81	36	Pass
	915	1	21.17	22.00	30.00	0.45	21.62	36	Pass
	927.8	1	20.84	22.00	30.00	0.45	21.29	36	Pass

TEST RESULTS DATA
Number of Hopping Frequency

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

FSK-FHSS-150Kbps**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	0.175	0.500	0.158	0.401	0.1750	Pass
FSK	150Kbps	1	915.2	0.174	0.500	0.158	0.401	0.1744	Pass
FSK	150Kbps	1	927.6	0.177	0.500	0.155	0.401	0.1766	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	371.44	0.371	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	21.32	22.00	30.00	0.45	21.77	36	Pass
	915.2	1	21.13	22.00	30.00	0.45	21.58	36	Pass
	927.6	1	20.67	22.00	30.00	0.45	21.12	36	Pass

TEST RESULTS DATA
Number of Hopping Frequency

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

FSK-FHSS-250Kbps

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	0.267	0.500	0.254	0.499	0.2674	Pass
FSK	250Kbps	1	915	0.268	0.500	0.257	0.499	0.2685	Pass
FSK	250Kbps	1	927.5	0.264	0.500	0.252	0.499	0.2641	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	378.68	0.379	0.4	Pass

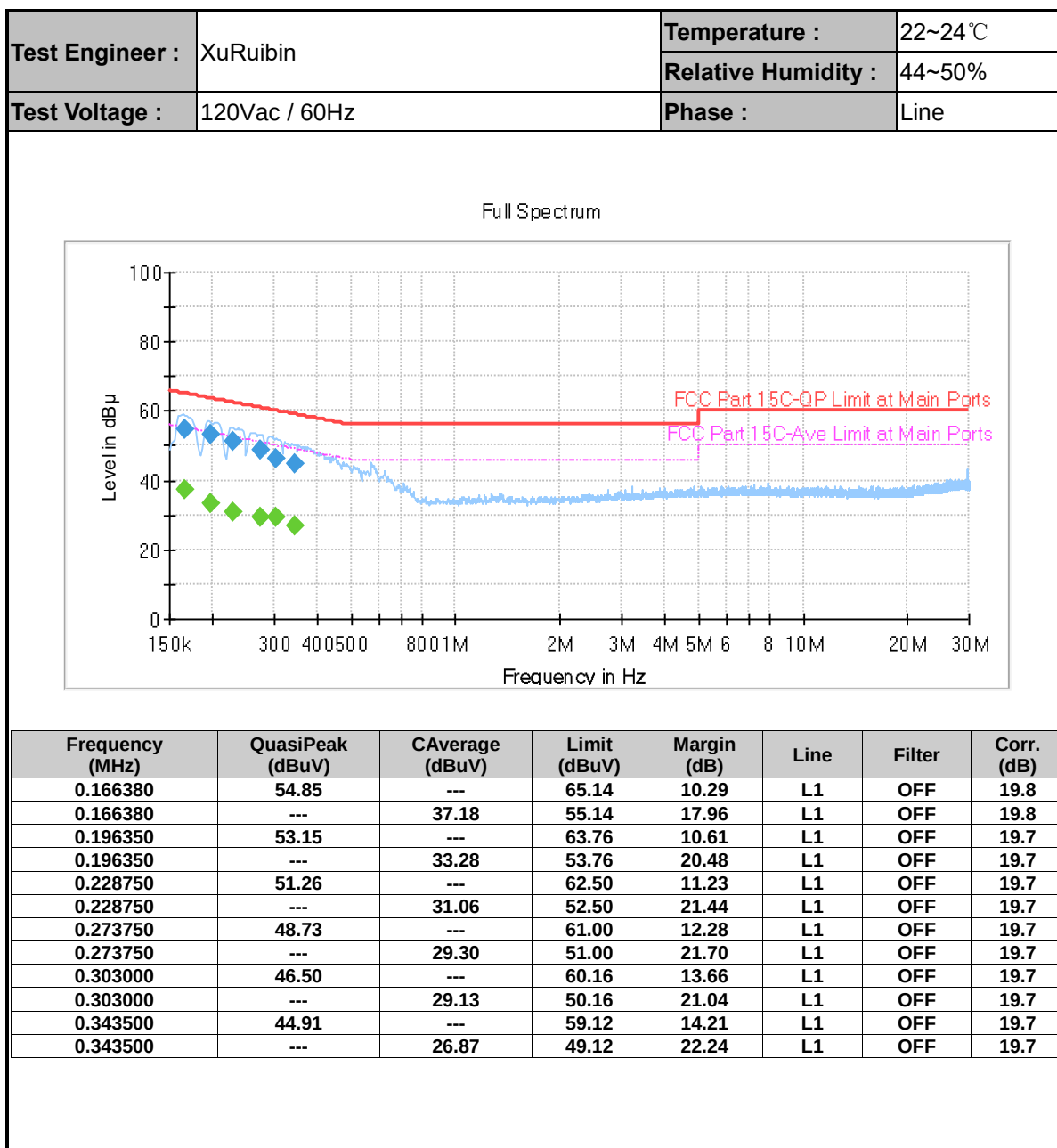
TEST RESULTS DATA
Peak Power Table

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	21.32	22.00	30.00	0.45	21.77	36	Pass
	915	1	21.14	22.00	30.00	0.45	21.59	36	Pass
	927.5	1	20.81	22.00	30.00	0.45	21.26	36	Pass

TEST RESULTS DATA
Number of Hopping Frequency

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

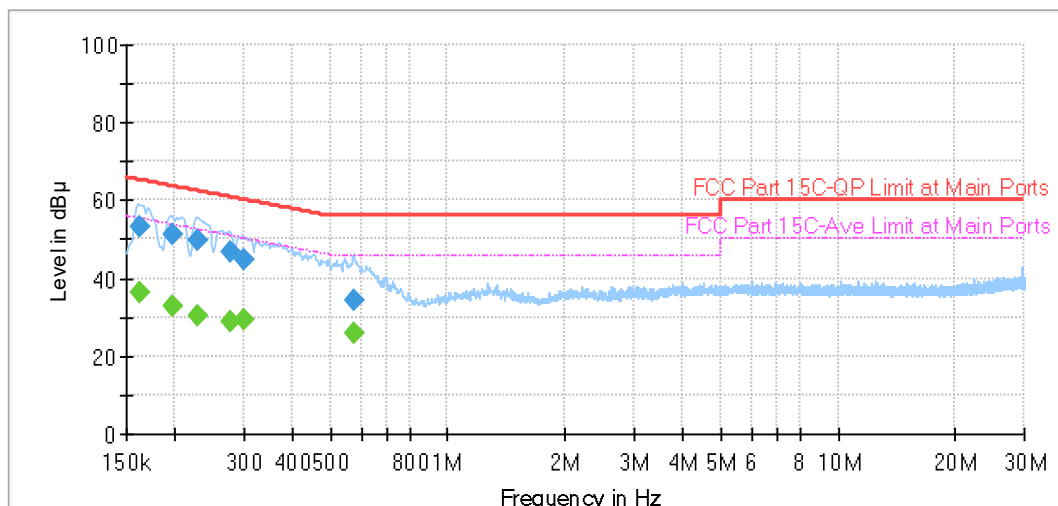
Appendix B. AC Conducted Emission Test Results





Test Engineer :	XuRuibin	Temperature :	22~24℃
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral

Full Spectrum



Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.162960	53.34	---	65.31	11.97	N	OFF	19.7
0.162960	---	36.19	55.31	19.12	N	OFF	19.7
0.197250	51.28	---	63.73	12.45	N	OFF	19.7
0.197250	---	32.61	53.73	21.12	N	OFF	19.7
0.227400	49.56	---	62.54	12.99	N	OFF	19.7
0.227400	---	30.40	52.54	22.15	N	OFF	19.7
0.278250	46.94	---	60.87	13.93	N	OFF	19.7
0.278250	---	28.62	50.87	22.24	N	OFF	19.7
0.300750	44.82	---	60.22	15.40	N	OFF	19.7
0.300750	---	29.45	50.22	20.77	N	OFF	19.7
0.577500	34.57	---	56.00	21.43	N	OFF	19.7
0.577500	---	26.01	46.00	19.99	N	OFF	19.7



Appendix C. Radiated Spurious Emission

FSK 50K(Harmonic @ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dB μ V/m)	(dB)	Line (dB μ V/m)	Level (dB μ V)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
902.2MHz		2706.6	43.96	-30.04	74	60.89	32.3	8.61	57.84	100	169	P	H
		2706.6	43.56	-10.44	54	60.49	32.3	8.61	57.84	100	169	A	H
		3608.8	42.39	-31.61	74	57.82	32.9	9.67	58	-	-	P	H
		2706.6	44.99	-29.01	74	61.92	32.3	8.61	57.84	145	180	P	V
		2706.6	44.59	-9.41	54	61.52	32.3	8.61	57.84	145	180	A	V
		3608.8	43.26	-30.74	74	58.69	32.9	9.67	58	-	-	P	V
915MHz		2745	44.65	-29.35	74	61.63	32.25	8.62	57.85	100	106	P	H
		2745	44.25	-9.75	54	61.23	32.25	8.62	57.85	100	106	A	H
		3660	43.07	-30.93	74	58.43	33	9.64	58	-	-	P	H
		2745	45.38	-28.62	74	62.36	32.25	8.62	57.85	124	100	P	V
		2745	44.98	-9.02	54	61.96	32.25	8.62	57.85	124	100	A	V
		3660	43.13	-30.87	74	58.49	33	9.64	58	-	-	P	V
927.8MHz		1855.6	44.3	-40.95	85.25	64.29	31.03	6.88	57.9			P	H
		2783.4	44.97	-29.03	74	61.98	32.22	8.63	57.86	100	206	P	H
		2783.4	44.57	-9.43	54	61.58	32.22	8.63	57.86	100	206	A	H
		3711.2	42.61	-31.39	74	57.9	33.1	9.61	58	-	-	P	H
		1855.6	42.83	-38.23	81.06	62.82	31.03	6.88	57.9	-	-	P	V
		2783.4	45.42	-28.58	74	62.43	32.22	8.63	57.86	116	261	P	V
		2783.4	45.02	-8.98	54	62.03	32.22	8.63	57.86	116	261	A	V
		3711.2	43.36	-30.64	74	58.65	33.1	9.61	58	-	-	P	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		2707.2	45.08	-28.92	74	62.03	32.28	8.61	57.84	100	192	P	H
		2707.2	43.85	-10.15	54	60.8	32.28	8.61	57.84	100	192	A	H
		3609.6	43.04	-30.96	74	58.47	32.9	9.67	58	-	-	P	H
		2707.2	45.54	-28.46	74	62.49	32.28	8.61	57.84	102	142	P	V
		2707.2	44.31	-9.69	54	61.26	32.28	8.61	57.84	102	142	A	V
		3609.6	43.27	-30.73	74	58.7	32.9	9.67	58	-	-	P	V
915.2MHz		2745.6	45.08	-28.92	74	62.06	32.25	8.62	57.85	100	264	P	H
		2745.6	43.85	-10.15	54	60.83	32.25	8.62	57.85	100	264	A	H
		3660.8	42.96	-31.04	74	58.32	33	9.64	58	-	-	P	H
		2745.6	45.95	-28.05	74	62.93	32.25	8.62	57.85	122	172	P	V
		2745.6	44.72	-9.28	54	61.7	32.25	8.62	57.85	122	172	A	V
		3660.8	42.77	-31.23	74	58.13	33	9.64	58	-	-	P	V
927.6MHz		1855.2	44.27	-40.81	85.08	64.26	31.03	6.88	57.9	-	-	P	H
		2782.8	45.48	-28.52	74	62.49	32.22	8.63	57.86	100	211	P	H
		2782.8	44.25	-9.75	54	61.26	32.22	8.63	57.86	100	211	A	H
		3710.4	41.96	-32.04	74	57.25	33.1	9.61	58	-	-	P	H
		1855.2	42.69	-38.29	80.98	62.68	31.03	6.88	57.9	-	-	P	V
		2782.8	46.25	-27.75	74	63.26	32.22	8.63	57.86	136	251	P	V
		2782.8	45.02	-8.98	54	62.03	32.22	8.63	57.86	136	251	A	V
		3710.4	42.15	-31.85	74	57.44	33.1	9.61	58	-	-	P	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.
					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		2707.5	45.98	-28.02	74	62.93	32.28	8.61	57.84	100	105	P	H
		2707.5	43.8	-10.2	54	60.75	32.28	8.61	57.84	100	105	A	H
		3610	44	-30	74	59.41	32.93	9.66	58	-	-	P	H
		2707.5	46.77	-27.23	74	63.72	32.28	8.61	57.84	109	177	P	V
		2707.5	44.59	-9.41	54	61.54	32.28	8.61	57.84	109	177	A	V
		3610	43.35	-30.65	74	58.76	32.93	9.66	58	-	-	P	V
915.0MHz		2745	45.67	-28.33	74	62.65	32.25	8.62	57.85	100	125	P	H
		2745	43.49	-10.51	54	60.47	32.25	8.62	57.85	100	125	A	H
		3660	43.05	-30.95	74	58.41	33	9.64	58	-	-	P	H
		2745	46.64	-27.36	74	63.62	32.25	8.62	57.85	107	182	P	V
		2745	44.46	-9.54	54	61.44	32.25	8.62	57.85	107	182	A	V
		3660	42.68	-31.32	74	58.04	33	9.64	58	-	-	P	V
927.5MHz		1855	44.42	-34.96	79.38	64.41	31.03	6.88	57.9	-	-	P	H
		2782.5	45.77	-28.23	74	62.78	32.22	8.63	57.86	100	244	P	H
		2782.5	43.59	-10.41	54	60.6	32.22	8.63	57.86	100	244	A	H
		3710	43.55	-30.45	74	58.84	33.1	9.61	58	-	-	P	H
		1855	41.7	-33.63	75.33	61.69	31.03	6.88	57.9	-	-	P	V
		2782.5	46.8	-27.2	74	63.81	32.22	8.63	57.86	162	197	P	V
		2782.5	44.62	-9.38	54	61.63	32.22	8.63	57.86	162	197	A	V
		3710	42.5	-31.5	74	57.79	33.1	9.61	58	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



<30M-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		131.85	21.84	-21.66	43.5	36.8	17.72	2.22	34.9	-	-	P	H
		283.17	24.37	-21.63	46	37.08	18.89	3.14	34.74	-	-	P	H
	*	902.2	103.59	----	----	104.03	29.14	4.42	34	-	-	P	H
		136.7	22.68	-20.82	43.5	37.21	18.12	2.25	34.9	-	-	P	V
		267.65	23.53	-22.47	46	36.86	18.35	3.08	34.76	-	-	P	V
	*	902.2	95.37	----	----	95.81	29.14	4.42	34	-	-	P	V
915MHz		135.73	21.76	-21.74	43.5	36.4	18.01	2.25	34.9	-	-	P	H
		284.14	24.55	-21.45	46	37.27	18.86	3.15	34.73	-	-	P	H
	*	915	103.52	----	----	103.73	29.34	4.45	34	-	-	P	H
		135.73	21.79	-21.71	43.5	36.43	18.01	2.25	34.9	-	-	P	V
		275.41	24.32	-21.68	46	37.37	18.59	3.11	34.75	-	-	P	V
	*	915	95.54	----	----	95.75	29.34	4.45	34	-	-	P	V
927.8MHz		135.73	22.13	-21.37	43.5	36.74	18.04	2.25	34.9	-	-	P	H
		281.23	23.83	-22.17	46	36.6	18.83	3.14	34.74	-	-	P	H
	*	927.8	105.25	----	----	105.01	29.77	4.47	34	-	-	P	H
		137.67	22.55	-20.95	43.5	36.99	18.2	2.26	34.9	-	-	P	V
		281.23	23.96	-22.04	46	36.73	18.83	3.14	34.74	-	-	P	V
	*	927.8	101.06	----	----	100.82	29.77	4.47	34	-	-	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		136.7	21.76	-21.74	43.5	36.29	18.12	2.25	34.9	-	-	P	H
		269.59	24.23	-21.77	46	37.48	18.42	3.09	34.76	-	-	P	H
	*	902.4	102.72	----	----	103.16	29.14	4.42	34	-	-	P	H
		137.67	22.14	-21.36	43.5	36.58	18.2	2.26	34.9	-	-	P	V
		284.14	24.02	-21.98	46	36.67	18.93	3.15	34.73	-	-	P	V
	*	902.4	95.42	----	----	95.86	29.14	4.42	34	-	-	P	V
915.2MHz		132.82	21.02	-22.48	43.5	35.85	17.84	2.23	34.9	-	-	P	H
		280.26	23.49	-22.51	46	36.36	18.74	3.13	34.74	-	-	P	H
	*	915.2	105.55	----	----	105.76	29.34	4.45	34	-	-	P	H
		133.79	21.22	-22.28	43.5	35.99	17.9	2.23	34.9			P	V
		277.35	23.35	-22.65	46	36.33	18.65	3.12	34.75	-	-	P	V
	*	915.2	95.15	----	----	95.36	29.34	4.45	34	-	-	P	V
927.6MHz		135.73	21.89	-21.61	43.5	36.5	18.04	2.25	34.9	-	-	P	H
		279.29	23.11	-22.89	46	35.96	18.76	3.13	34.74	-	-	P	H
	*	927.6	105.08	----	----	104.87	29.74	4.47	34	-	-	P	H
		137.67	21.86	-21.64	43.5	36.3	18.2	2.26	34.9	-	-	P	V
		264.74	23.78	-22.22	46	37.23	18.25	3.07	34.77	-	-	P	V
	*	927.6	100.98	----	----	100.77	29.74	4.47	34	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



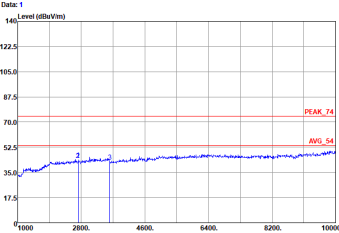
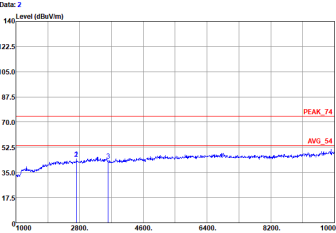
FSK 250K(LF @ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		137.67	21.32	-22.18	43.5	35.76	18.2	2.26	34.9	-	-	P	H
		284.14	24.12	-21.88	46	36.77	18.93	3.15	34.73	-	-	P	H
	*	902.5	102.74	----	----	103.18	29.14	4.42	34	-	-	P	H
		134.76	22.25	-21.25	43.5	36.95	17.96	2.24	34.9	-	-	P	V
		283.17	23.46	-22.54	46	36.17	18.89	3.14	34.74	-	-	P	V
	*	902.5	95.28	----	----	95.72	29.14	4.42	34	-	-	P	V
915MHz		137.67	20.96	-22.54	43.5	35.47	18.13	2.26	34.9	-	-	P	H
		281.23	24.12	-21.88	46	36.95	18.77	3.14	34.74	-	-	P	H
	*	915	104.51	----	----	104.72	29.34	4.45	34	-	-	P	H
		137.67	21.75	-21.75	43.5	36.26	18.13	2.26	34.9	-	-	P	V
		282.2	24.32	-21.68	46	37.12	18.8	3.14	34.74	-	-	P	V
	*	915	96.94	----	----	97.15	29.34	4.45	34	-	-	P	V
927.5MHz		134.76	21.96	-21.54	43.5	36.66	17.96	2.24	34.9	-	-	P	H
		243.4	24.26	-21.74	46	38.61	17.49	2.97	34.81	-	-	P	H
	*	927.5	99.38	----	----	99.17	29.74	4.47	34	-	-	P	H
		136.7	22.25	-21.25	43.5	36.78	18.12	2.25	34.9	-	-	P	V
		270.56	23.85	-22.15	46	37.07	18.45	3.09	34.76	-	-	P	V
	*	927.5	95.33	----	----	95.12	29.74	4.47	34	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

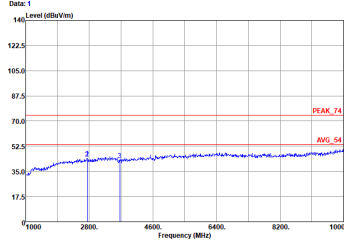
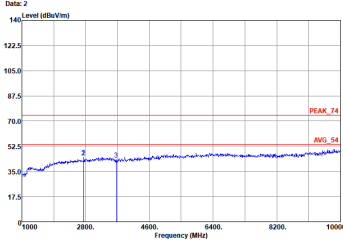


Appendix D. Radiated Spurious Emission Plots

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

LoRa	Harmonic @ 3m																																																																																	
ANT	FSK 50Kbps FHSS 50Kbps CH01 902.2 MHz																																																																																	
	Horizontal																																																																																	
	Vertical																																																																																	
Peak	1 Level (dBuV/m)  <table><tr><th>1</th><th>2706.68</th><th>43.96</th><th>-30.84</th><th>74.00</th><th>60.89</th><th>32.30</th><th>8.61</th><th>57.84</th><th>100</th><th>169</th><th>Peak</th></tr><tr><th>2</th><th>2706.68</th><th>43.56</th><th>-30.44</th><th>54.00</th><th>60.49</th><th>32.30</th><th>8.61</th><th>57.84</th><th>100</th><th>169</th><th>Average</th></tr><tr><th>3</th><th>3608.80</th><th>42.39</th><th>-31.61</th><th>74.00</th><th>57.82</th><th>32.90</th><th>9.67</th><th>58.00</th><th>---</th><th>---</th><th>Peak</th></tr></table> 2 Level (dBuV/m)  <table><tr><th>1</th><th>2706.68</th><th>44.99</th><th>-29.01</th><th>74.00</th><th>61.92</th><th>32.30</th><th>8.61</th><th>57.84</th><th>145</th><th>180</th><th>Peak</th></tr><tr><th>2</th><th>2706.68</th><th>44.59</th><th>-9.41</th><th>54.00</th><th>61.52</th><th>32.30</th><th>8.61</th><th>57.84</th><th>145</th><th>180</th><th>Average</th></tr><tr><th>3</th><th>3608.80</th><th>43.26</th><th>-30.74</th><th>74.00</th><th>58.69</th><th>32.90</th><th>9.67</th><th>58.00</th><th>---</th><th>---</th><th>Peak</th></tr></table>										1	2706.68	43.96	-30.84	74.00	60.89	32.30	8.61	57.84	100	169	Peak	2	2706.68	43.56	-30.44	54.00	60.49	32.30	8.61	57.84	100	169	Average	3	3608.80	42.39	-31.61	74.00	57.82	32.90	9.67	58.00	---	---	Peak	1	2706.68	44.99	-29.01	74.00	61.92	32.30	8.61	57.84	145	180	Peak	2	2706.68	44.59	-9.41	54.00	61.52	32.30	8.61	57.84	145	180	Average	3	3608.80	43.26	-30.74	74.00	58.69	32.90	9.67	58.00	---	---	Peak
	1	2706.68	43.96	-30.84	74.00	60.89	32.30	8.61	57.84	100	169	Peak																																																																						
	2	2706.68	43.56	-30.44	54.00	60.49	32.30	8.61	57.84	100	169	Average																																																																						
	3	3608.80	42.39	-31.61	74.00	57.82	32.90	9.67	58.00	---	---	Peak																																																																						
1	2706.68	44.99	-29.01	74.00	61.92	32.30	8.61	57.84	145	180	Peak																																																																							
2	2706.68	44.59	-9.41	54.00	61.52	32.30	8.61	57.84	145	180	Average																																																																							
3	3608.80	43.26	-30.74	74.00	58.69	32.90	9.67	58.00	---	---	Peak																																																																							



LoRa	Harmonic @ 3m																																																																																																																			
ANT	FSK 50Kbps FHSS 50Kbps CH65 915 MHz																																																																																																																			
	Horizontal					Vertical																																																																																																														
Peak	Date: 1  <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>deg</th></tr><tr><td>1</td><td>2745.00</td><td>44.65</td><td>-29.35</td><td>74.00</td><td>61.63</td><td>32.25</td><td>8.62 57.85</td><td>100 106 Peak</td></tr><tr><td>2</td><td>2745.00</td><td>44.25</td><td>-9.75</td><td>54.00</td><td>61.23</td><td>32.25</td><td>8.62 57.85</td><td>100 106 Average</td></tr><tr><td>3</td><td>3660.00</td><td>43.07</td><td>-30.93</td><td>74.00</td><td>58.43</td><td>33.00</td><td>9.64 58.00</td><td>---</td><td>---</td><td>Peak</td></tr></table>						Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Freq	Level	Line	Level	Factor	Loss			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	deg	1	2745.00	44.65	-29.35	74.00	61.63	32.25	8.62 57.85	100 106 Peak	2	2745.00	44.25	-9.75	54.00	61.23	32.25	8.62 57.85	100 106 Average	3	3660.00	43.07	-30.93	74.00	58.43	33.00	9.64 58.00	---	---	Peak	Date: 2  <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>deg</th></tr><tr><td>1</td><td>2745.00</td><td>45.38</td><td>-28.62</td><td>74.00</td><td>62.36</td><td>32.25</td><td>8.62 57.85</td><td>124 100 Peak</td></tr><tr><td>2</td><td>2745.00</td><td>44.98</td><td>-9.02</td><td>54.00</td><td>61.96</td><td>32.25</td><td>8.62 57.85</td><td>124 100 Average</td></tr><tr><td>3</td><td>3660.00</td><td>43.13</td><td>-30.87</td><td>74.00</td><td>58.49</td><td>33.00</td><td>9.64 58.00</td><td>---</td><td>---</td><td>Peak</td></tr></table>						Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Freq	Level	Line	Level	Factor	Loss			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	deg	1	2745.00	45.38	-28.62	74.00	62.36	32.25	8.62 57.85	124 100 Peak	2	2745.00	44.98	-9.02	54.00	61.96	32.25	8.62 57.85	124 100 Average	3	3660.00	43.13	-30.87	74.00	58.49	33.00	9.64 58.00	---	---	Peak
		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																												
	Freq	Level	Line	Level	Factor	Loss																																																																																																														
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	deg																																																																																																												
	1	2745.00	44.65	-29.35	74.00	61.63	32.25	8.62 57.85	100 106 Peak																																																																																																											
2	2745.00	44.25	-9.75	54.00	61.23	32.25	8.62 57.85	100 106 Average																																																																																																												
3	3660.00	43.07	-30.93	74.00	58.43	33.00	9.64 58.00	---	---	Peak																																																																																																										
	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																													
Freq	Level	Line	Level	Factor	Loss																																																																																																															
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	deg																																																																																																													
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3	3660.00	43.13	-30.87	74.00	58.49	33.00	9.64 58.00	---	---	Peak																																																																																																										



LoRa	Harmonic @ 3m																																																																																																																																																	
ANT	FSK 50Kbps FHSS 50Kbps CH129 927.8 MHz																																																																																																																																																	
	Horizontal					Vertical																																																																																																																																												
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**FSK 150Kbps FHSS 150Kbps (Harmonic @ 3m)**

LoRa	Harmonic @ 3m										
ANT	FSK 150Kbps FHSS 150Kbps CH01 902.4 MHz										



LoRa	Harmonic @ 3m													
ANT	FSK 150Kbps FHSS 150Kbps CH33 915.2 MHz													



LoRa	Harmonic @ 3m																																																																																																																													
ANT	FSK 150Kbps FHSS 150Kbps CH64 927.6 MHz																																																																																																																													
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Peak	Date: 1 Level (dBuV/m) Frequency (MHz) <table><thead><tr><th>Peak</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/n</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>1855.20</td><td>44.27</td><td>---</td><td>64.26</td><td>31.83</td><td>6.88</td><td>57.90</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>2782.80</td><td>45.48</td><td>-28.52</td><td>74.00</td><td>62.49</td><td>32.22</td><td>8.63</td><td>57.86</td><td>100</td><td>211</td><td>Peak</td></tr><tr><td>3</td><td>2782.80</td><td>44.25</td><td>-9.75</td><td>54.00</td><td>61.26</td><td>32.22</td><td>8.63</td><td>57.86</td><td>100</td><td>211</td><td>Average</td></tr><tr><td>4</td><td>3718.40</td><td>41.96</td><td>-32.04</td><td>74.00</td><td>57.25</td><td>33.10</td><td>9.61</td><td>58.00</td><td>---</td><td>---</td><td>Peak</td></tr></tbody></table>	Peak	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB/n	dB	cm	deg	1	1855.20	44.27	---	64.26	31.83	6.88	57.90	---	Peak	2	2782.80	45.48	-28.52	74.00	62.49	32.22	8.63	57.86	100	211	Peak	3	2782.80	44.25	-9.75	54.00	61.26	32.22	8.63	57.86	100	211	Average	4	3718.40	41.96	-32.04	74.00	57.25	33.10	9.61	58.00	---	---	Peak	Date: 2 Level (dBuV/m) Frequency (MHz) <table><thead><tr><th>Peak</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/n</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>1855.20</td><td>42.69</td><td>---</td><td>62.68</td><td>31.83</td><td>6.88</td><td>57.90</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>2782.80</td><td>46.25</td><td>-27.75</td><td>74.00</td><td>63.26</td><td>32.22</td><td>8.63</td><td>57.86</td><td>136</td><td>251</td><td>Peak</td></tr><tr><td>3</td><td>2782.80</td><td>45.02</td><td>-8.98</td><td>54.00</td><td>62.03</td><td>32.22</td><td>8.63</td><td>57.86</td><td>136</td><td>251</td><td>Average</td></tr><tr><td>4</td><td>3718.40</td><td>42.15</td><td>-31.85</td><td>74.00</td><td>57.44</td><td>33.10</td><td>9.61</td><td>58.00</td><td>---</td><td>---</td><td>Peak</td></tr></tbody></table>	Peak	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB/n	dB	cm	deg	1	1855.20	42.69	---	62.68	31.83	6.88	57.90	---	Peak	2	2782.80	46.25	-27.75	74.00	63.26	32.22	8.63	57.86	136	251	Peak	3	2782.80	45.02	-8.98	54.00	62.03	32.22	8.63	57.86	136	251	Average	4	3718.40	42.15	-31.85	74.00	57.44	33.10	9.61	58.00	---	---	Peak
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FSK 250Kbps FHSS 250Kbps (Harmonic @ 3m)

LoRa	Harmonic @ 3m																																																																																																																															
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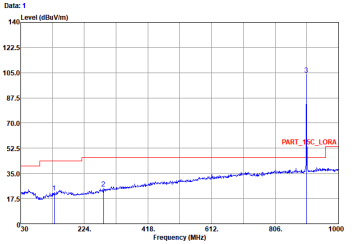
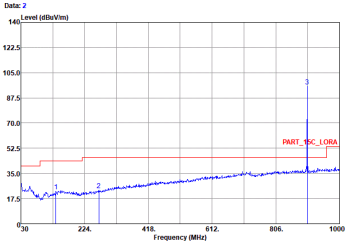


LoRa	Harmonic @ 3m																																																																																																																																																															
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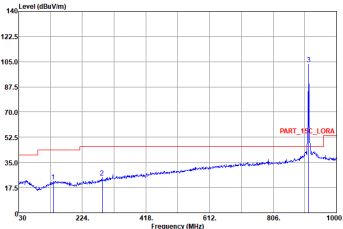
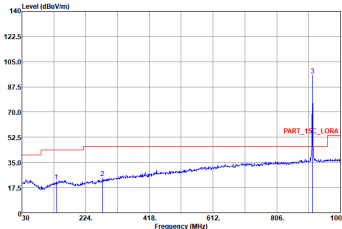


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FSK 50Kbps FHSS 50Kbps (LF @ 3m)

LoRa	LF @ 3m																																																																																																															
ANT	FSK 50Kbps FHSS 50Kbps CH01 902.2 MHz																																																																																																															
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Peak	Data: 1 <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>131.85</td><td>21.84</td><td>-21.66</td><td>43.58</td><td>36.88</td><td>17.72</td><td>2.22</td><td>34.88</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>283.17</td><td>24.37</td><td>-21.63</td><td>46.08</td><td>37.08</td><td>18.89</td><td>3.14</td><td>34.74</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>902.20</td><td>103.59</td><td>---</td><td>---</td><td>104.03</td><td>29.14</td><td>4.42</td><td>34.88</td><td>---</td><td>Peak</td></tr></tbody></table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor			1	131.85	21.84	-21.66	43.58	36.88	17.72	2.22	34.88	---	Peak	2	283.17	24.37	-21.63	46.08	37.08	18.89	3.14	34.74	---	Peak	3	902.20	103.59	---	---	104.03	29.14	4.42	34.88	---	Peak	Data: 2 <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>136.78</td><td>22.68</td><td>-20.82</td><td>43.58</td><td>37.21</td><td>18.12</td><td>2.25</td><td>34.88</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>267.65</td><td>23.53</td><td>-22.47</td><td>46.08</td><td>36.86</td><td>18.35</td><td>3.08</td><td>34.76</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>902.20</td><td>95.37</td><td>---</td><td>---</td><td>95.81</td><td>29.14</td><td>4.42</td><td>34.88</td><td>---</td><td>Peak</td></tr></tbody></table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor			1	136.78	22.68	-20.82	43.58	37.21	18.12	2.25	34.88	---	Peak	2	267.65	23.53	-22.47	46.08	36.86	18.35	3.08	34.76	---	Peak	3	902.20	95.37	---	---	95.81	29.14	4.42	34.88	---	Peak
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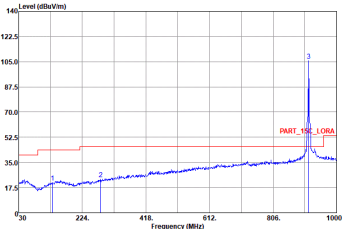
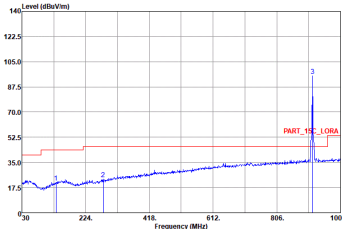
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3	927.80	105.25	---	---	105.01	29.77	4.47	34.00	---	---	Peak																																																																																																																							
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FSK 150Kbps FHSS 150Kbps (LF @ 3m)

LoRa	LF @ 3m																																																																																																															
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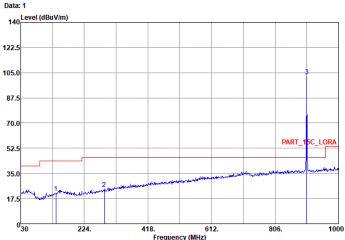
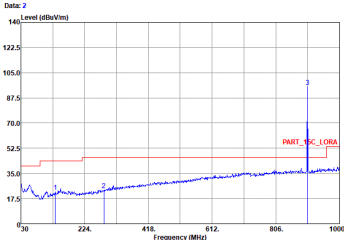
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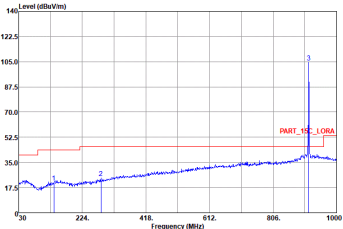
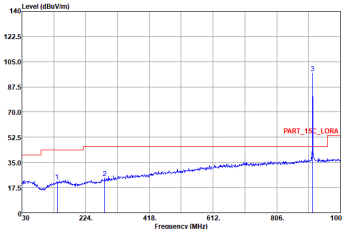
LoRa	LF @ 3m										
ANT	FSK 150Kbps FHSS 150Kbps CH64 927.6 MHz										



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

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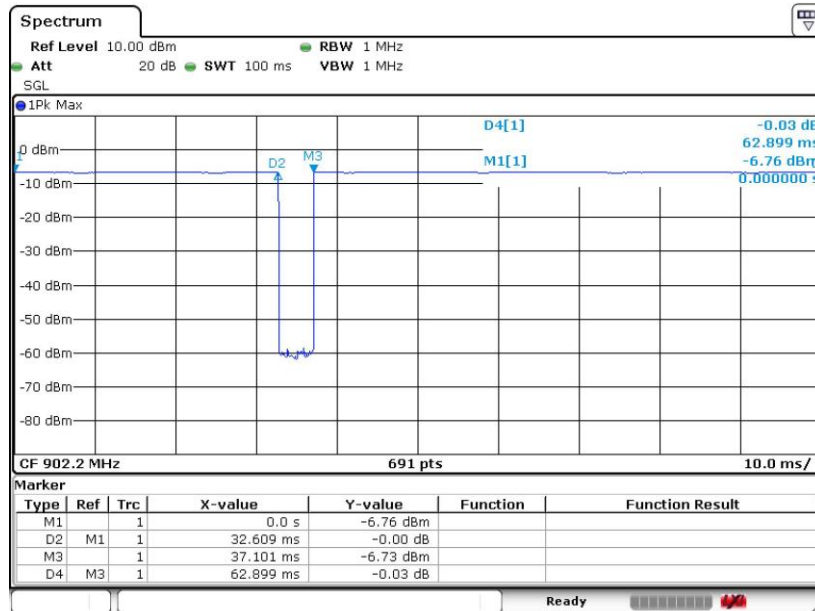
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	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB																																																																																											
1	137.678	21.75	-21.75	43.58	36.26	18.13	2.26 34.98 --- --- Peak																																																																																											
2	282.208	24.32	-21.68	46.00	37.12	18.80	3.14 34.74 --- --- Peak																																																																																											
3	915.000	96.94	---	---	97.15	29.34	4.45 34.88 --- --- Peak																																																																																											



LoRa	LF @ 3m																																																																																																	
ANT	FSK 250Kbps FHSS 250Kbps CH51 927.5 MHz																																																																																																	
	Horizontal	Vertical																																																																																																
Peak	Date: 1 <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th></th></tr><tr><td>1</td><td>134.76</td><td>21.96</td><td>-21.54</td><td>43.50</td><td>36.66</td><td>17.96</td><td>2.24 34.90 --- --- Peak</td></tr><tr><td>2</td><td>243.48</td><td>24.26</td><td>-21.74</td><td>46.00</td><td>38.61</td><td>17.49</td><td>2.97 34.81 --- --- Peak</td></tr><tr><td>3</td><td>927.50</td><td>99.38</td><td>---</td><td>---</td><td>99.17</td><td>29.74</td><td>4.47 34.00 --- --- Peak</td></tr></table>		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark		Freq	Level	Line	Level Factor	Loss Factor				MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m		1	134.76	21.96	-21.54	43.50	36.66	17.96	2.24 34.90 --- --- Peak	2	243.48	24.26	-21.74	46.00	38.61	17.49	2.97 34.81 --- --- Peak	3	927.50	99.38	---	---	99.17	29.74	4.47 34.00 --- --- Peak	Date: 2 <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th></th></tr><tr><td>1</td><td>136.70</td><td>22.25</td><td>-21.25</td><td>43.50</td><td>36.78</td><td>18.12</td><td>2.25 34.90 --- --- Peak</td></tr><tr><td>2</td><td>270.56</td><td>23.85</td><td>-22.15</td><td>46.00</td><td>37.07</td><td>18.45</td><td>3.09 34.76 --- --- Peak</td></tr><tr><td>3</td><td>927.50</td><td>95.33</td><td>---</td><td>---</td><td>95.12</td><td>29.74</td><td>4.47 34.00 --- --- Peak</td></tr></table>		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark		Freq	Level	Line	Level Factor	Loss Factor				MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m		1	136.70	22.25	-21.25	43.50	36.78	18.12	2.25 34.90 --- --- Peak	2	270.56	23.85	-22.15	46.00	37.07	18.45	3.09 34.76 --- --- Peak	3	927.50	95.33	---	---	95.12	29.74	4.47 34.00 --- --- Peak
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Appendix E. Duty Cycle Plots

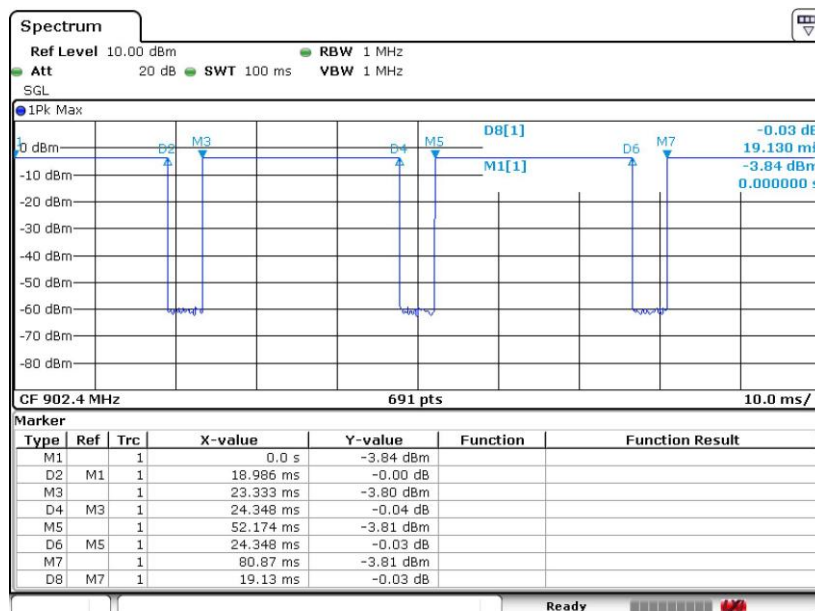
FSK(FHSS)50kbps



Note:

1. Duty cycle = on time/100 milliseconds = 95.51 %
2. Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = -0.40 \text{ dB}$

FSK(FHSS)150kbps

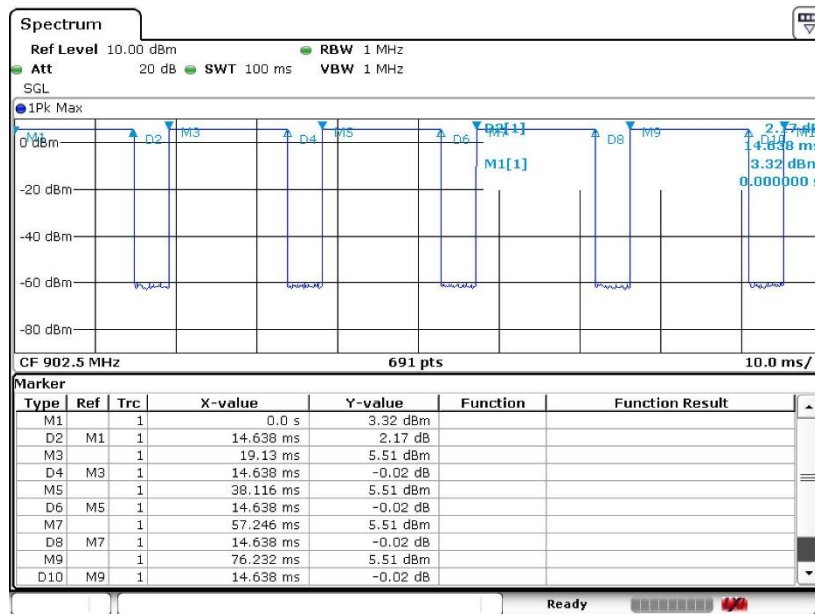


Note:

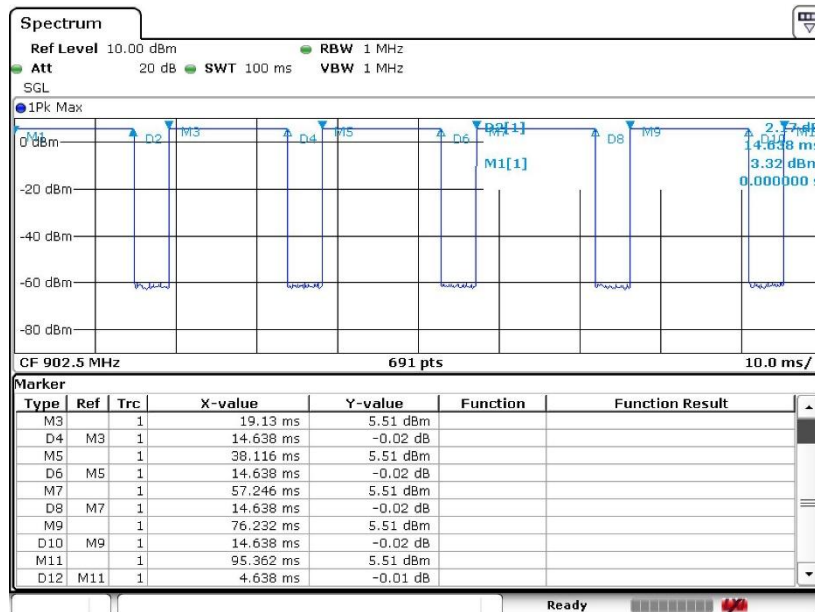
1. Duty cycle = on time/100 milliseconds = 86.81 %
2. Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = -1.23 \text{ dB}$



FSK(FHSS)250kbps – Plot 1



FSK(FHSS)250kbps – Plot 2



Note:

1. Duty cycle = on time/100 milliseconds = 77.828 %
2. Duty cycle correction factor = $20 \times \log(\text{Duty cycle}) = -2.18 \text{ dB}$