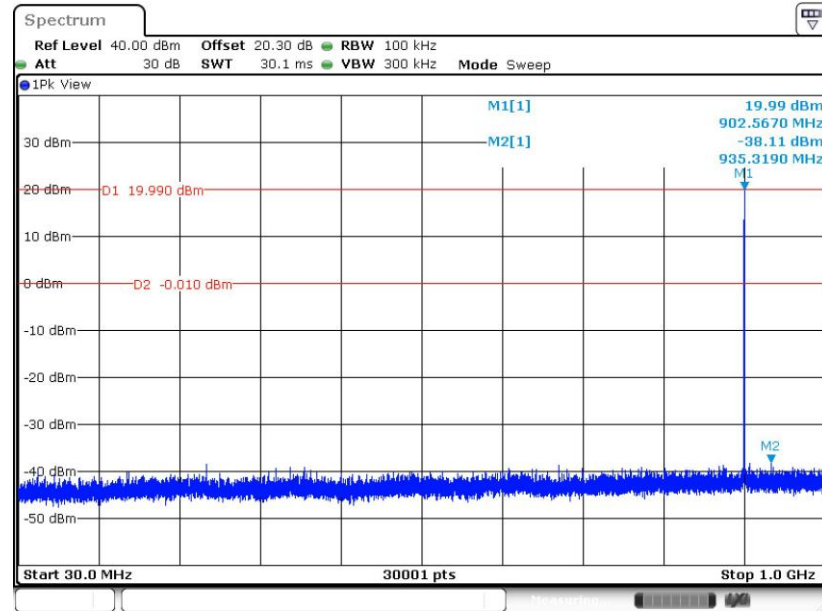


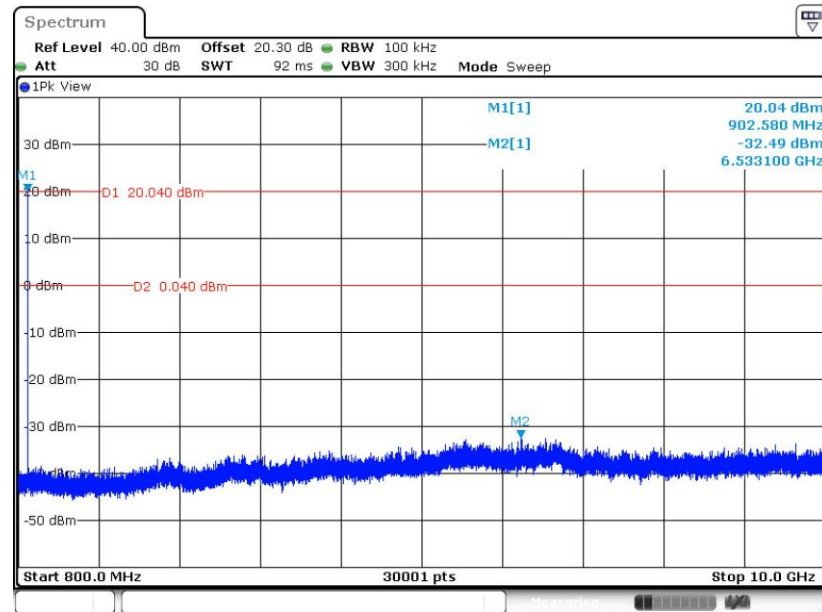


<Data Rate 250kbps>

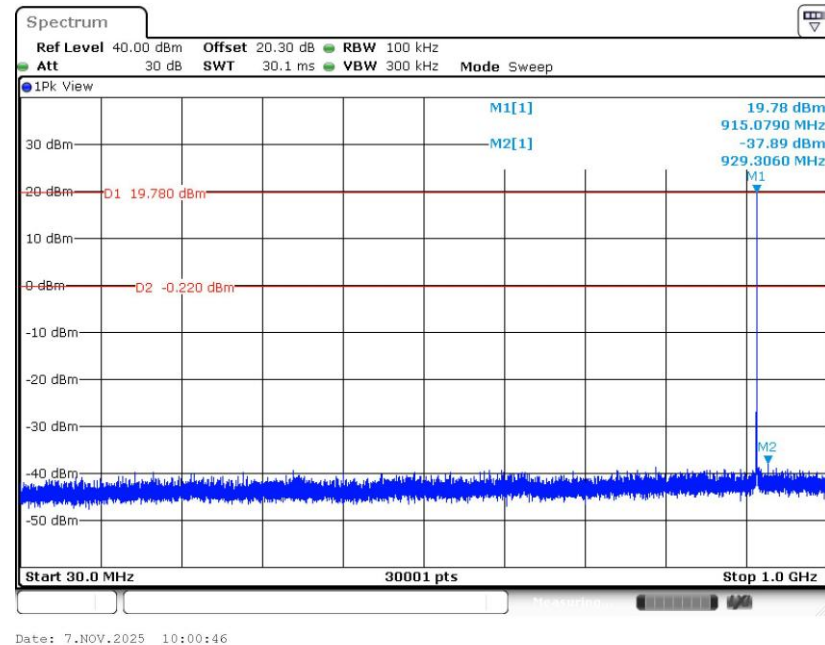
Low CH CSE Plot



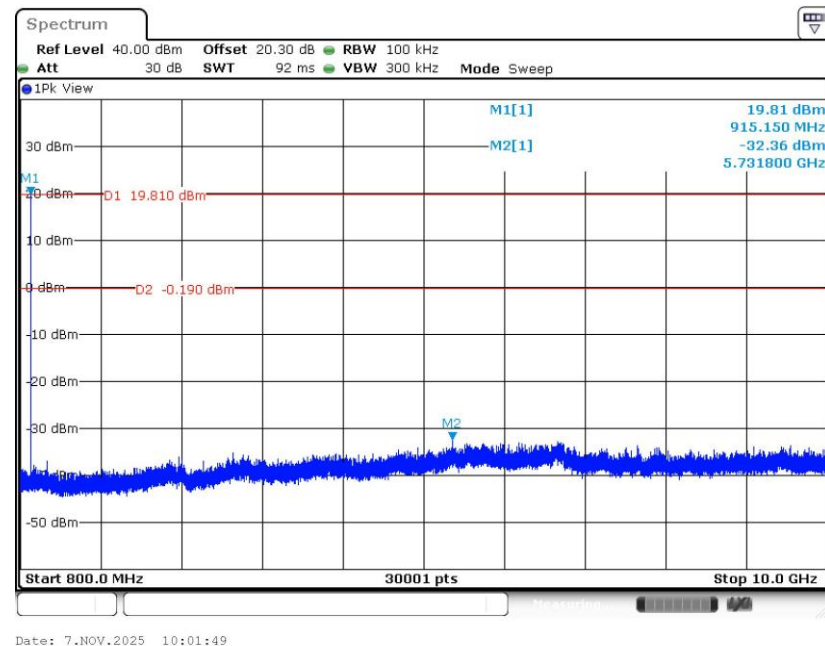
Low CH CSE Plot



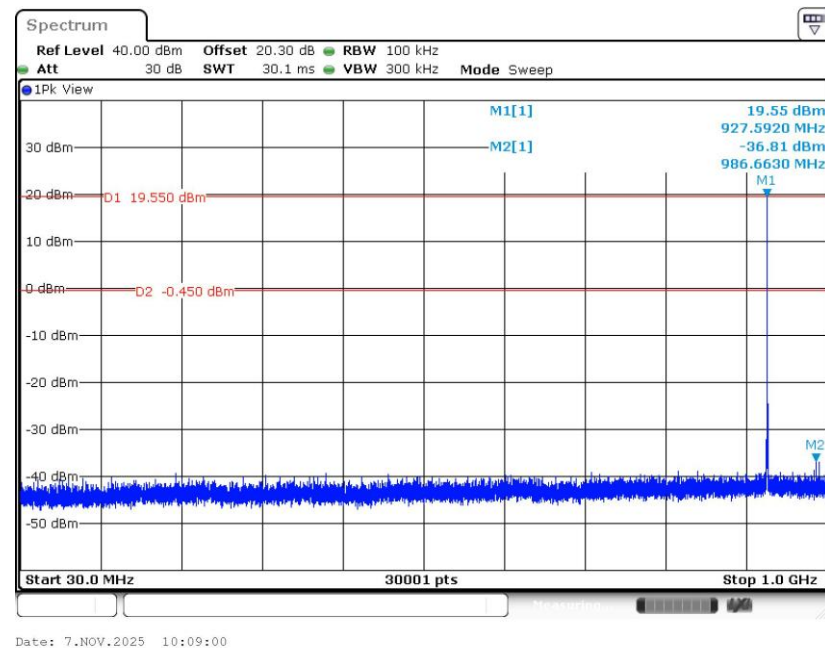
Mid CH CSE Plot



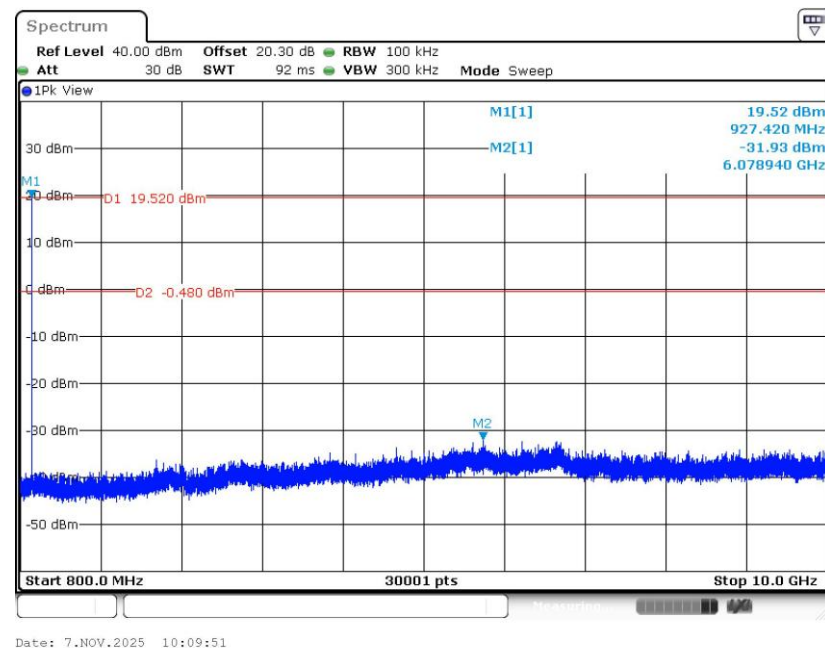
Mid CH CSE Plot



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

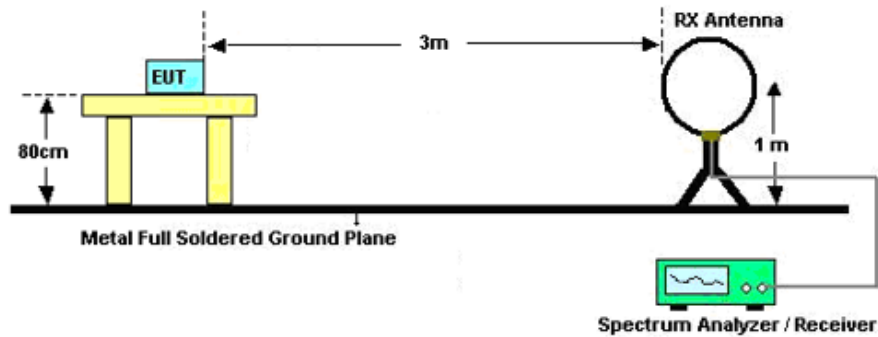
The measuring equipment is listed in the section 4 of this test report.

3.8.3 Test Procedures

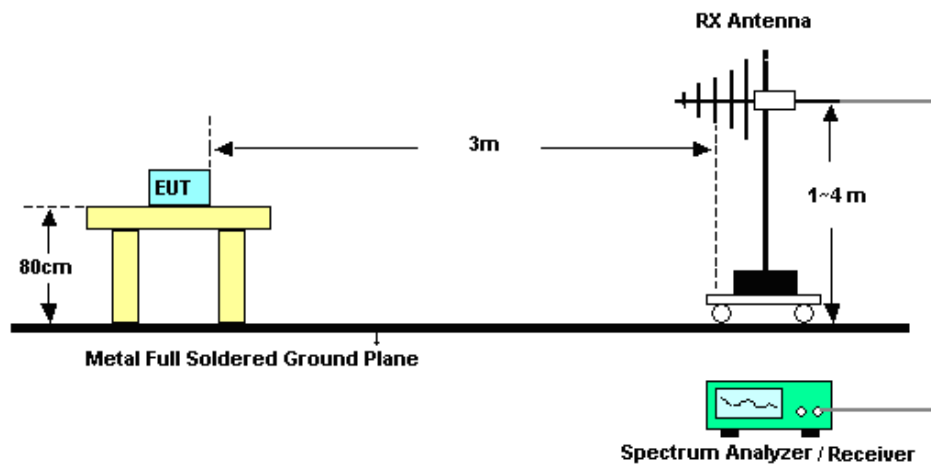
1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5 and 6.6.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the 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

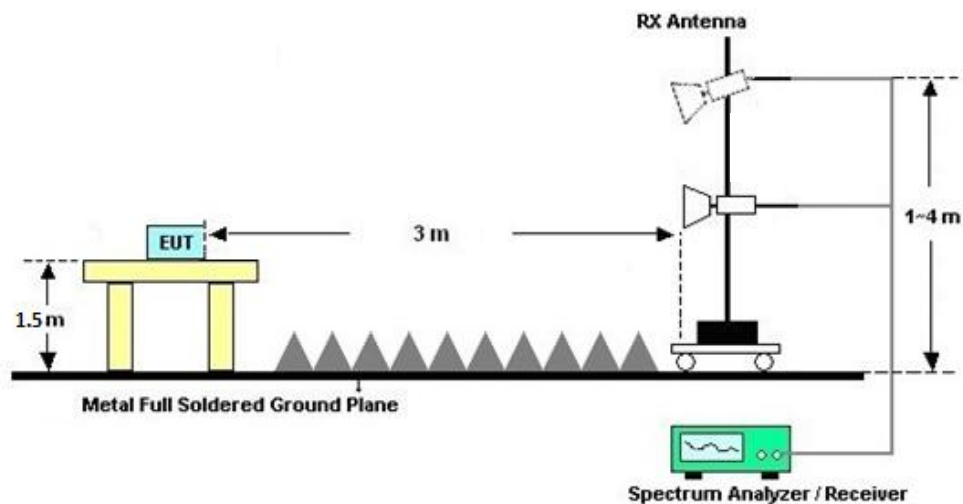
For radiated emissions below 30MHz



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 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. 06, 2025~ Nov. 07, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Nov. 06, 2025~ Nov. 07, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 13, 2025	Nov. 06, 2025~ Nov. 07, 2025	Oct. 12, 2026	Conducted (TH01-SZ)
Attenuator	Woken Tech	WK0602-10	4	10dB	Jan. 13, 2025	Nov. 06, 2025~ Nov. 07, 2025	Jan. 12, 2026	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 02, 2025	Nov. 02, 2025~ Dec. 16, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
EXA Signal Analyzer	KEYSIGHT	N9010B	MY59071191	10KHz~44GHz	Apr. 02, 2025	Nov. 02, 2025~ Dec. 16, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Nov. 02, 2025~ Dec. 16, 2025	Dec. 27, 2025	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Aug. 19, 2025	Nov. 02, 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. 02, 2025~ Dec. 16, 2025	Jul. 12, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Nov. 02, 2025~ Dec. 16, 2025	Jul. 02, 2026	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 03, 2025	Nov. 02, 2025~ Dec. 16, 2025	Apr. 02, 2027	Radiation (03CH03-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz~3000MHz	Apr. 02, 2025	Nov. 02, 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. 02, 2025~ Dec. 16, 2025	Oct. 12, 2026	Radiation (03CH03-SZ)
HF Amplifier	Keysight	83017A	MY53270357	500MHz~26.5GHz	Apr. 02, 2025	Nov. 02, 2025~ Dec. 16, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 17, 2025	Nov. 02, 2025~ Dec. 16, 2025	Oct. 16, 2026	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 02, 2025~ Dec. 16, 2025	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 02, 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:	2025/11/6~2025/11/7	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	0.107	0.500	0.104	0.200	0.1074	Pass
FSK	50Kbps	1	65	915	0.107	0.500	0.104	0.200	0.1068	Pass
FSK	50Kbps	1	129	927.8	0.107	0.500	0.105	0.200	0.1074	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	381.44	0.381	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	19.55	22.00	30.00	1.41	20.96	36	Pass
	915	1	19.50	22.00	30.00	1.41	20.91	36	Pass
	927.8	1	19.16	22.00	30.00	1.41	20.57	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	0.174	0.500	0.158	0.401	0.1735	Pass
FSK	150Kbps	1	915.2	0.174	0.500	0.157	0.401	0.1744	Pass
FSK	150Kbps	1	927.6	0.176	0.500	0.158	0.401	0.1758	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	19.57	22.00	30.00	1.41	20.98	36	Pass
	915.2	1	19.38	22.00	30.00	1.41	20.79	36	Pass
	927.6	1	19.29	22.00	30.00	1.41	20.70	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	0.269	0.500	0.252	0.499	0.2689	Pass
FSK	250Kbps	1	915	0.270	0.500	0.253	0.499	0.2699	Pass
FSK	250Kbps	1	927.5	0.269	0.500	0.254	0.499	0.2692	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	19.54	22.00	30.00	1.41	20.95	36	Pass
	915	1	19.38	22.00	30.00	1.41	20.79	36	Pass
	927.5	1	19.20	22.00	30.00	1.41	20.61	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	44.2	-50.26	94.46	64.83	30.63	6.64	57.9	-	-	P	H
		2706.6	47.72	-26.28	74	64.65	32.3	8.61	57.84	214	120	P	H
		2706.6	47.32	-6.68	54	64.25	32.3	8.61	57.84	214	120	A	H
		3608.8	43.8	-30.2	74	59.23	32.9	9.67	58	-	-	P	H
		1804.4	40.98	-43.81	84.79	61.61	30.63	6.64	57.9	-	-	P	V
		2706.6	45.59	-28.41	74	62.52	32.3	8.61	57.84	124	230	P	V
		2706.6	45.22	-8.78	54	62.15	32.3	8.61	57.84	124	230	A	V
		3608.8	42.37	-31.63	74	57.8	32.9	9.67	58	-	-	P	V
915MHz		2745	49.67	-24.33	74	66.65	32.25	8.62	57.85	124	320	P	H
		2745	49.27	-4.73	54	66.25	32.25	8.62	57.85	124	320	A	H
		3660	42.65	-31.35	74	58.01	33	9.64	58	-	-	P	H
		2745	46.27	-27.73	74	63.25	32.25	8.62	57.85	135	241	P	V
		2745	45.87	-8.13	54	62.85	32.25	8.62	57.85	135	241	A	V
		3660	43.68	-30.32	74	59.04	33	9.64	58	-	-	P	V
927.8MHz		2783.4	48.64	-25.36	74	65.65	32.22	8.63	57.86	241	352	P	H
		2783.4	47.38	-6.62	54	64.39	32.22	8.63	57.86	241	352	A	H
		3711.2	42.24	-31.76	74	57.53	33.1	9.61	58	-	-	P	H
		2783.4	46.55	-27.45	74	63.56	32.22	8.63	57.86	124	120	P	V
		2783.4	45.29	-8.71	54	62.3	32.22	8.63	57.86	124	120	A	V
		3711.2	41.85	-32.15	74	57.14	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		1804.8	42.92	-51.65	94.57	63.55	30.63	6.64	57.9	-	-	P	H
		2707.2	48.71	-25.29	74	65.66	32.28	8.61	57.84	142	320	P	H
		2707.2	47.45	-6.55	54	64.4	32.28	8.61	57.84	142	320	A	H
		3609.6	42.87	-31.13	74	58.3	32.9	9.67	58	-	-	P	H
		1804.8	41.52	-43.13	84.65	62.15	30.63	6.64	57.9	-	-	P	V
		2707.2	46.6	-27.4	74	63.55	32.28	8.61	57.84	241	120	P	V
		2707.2	45.34	-8.66	54	62.29	32.28	8.61	57.84	241	120	A	V
		3609.6	42.76	-31.24	74	58.19	32.9	9.67	58	-	-	P	V
915.2MHz		1830.4	46.47	-48.09	94.56	66.88	30.77	6.72	57.9	-	-	P	H
		2745.6	49.54	-24.46	74	66.52	32.25	8.62	57.85	241	241	P	H
		2745.6	48.28	-5.72	54	65.26	32.25	8.62	57.85	241	241	A	H
		3660.8	42.38	-31.62	74	57.74	33	9.64	58	-	-	P	H
		1830.4	42.01	-42.64	84.65	62.42	30.77	6.72	57.9	-	-	P	V
		2745.6	46.54	-27.46	74	63.52	32.25	8.62	57.85	124	210	P	V
		2745.6	45.28	-8.72	54	62.26	32.25	8.62	57.85	124	210	A	V
		3660.8	42.51	-31.49	74	57.87	33	9.64	58	-	-	P	V
927.6MHz		1855.2	48.63	-45.24	93.87	68.62	31.03	6.88	57.9	-	-	P	H
		2782.8	48.98	-25.02	74	65.99	32.22	8.63	57.86	241	218	P	H
		2782.8	47.72	-6.28	54	64.73	32.22	8.63	57.86	241	218	A	H
		3710.4	42.4	-31.6	74	57.69	33.1	9.61	58	-	-	P	H
		1855.2	43.48	-40.59	84.07	63.47	31.03	6.88	57.9	-	-	P	V
		2782.8	47.51	-26.49	74	64.52	32.22	8.63	57.86	124	320	P	V
		2782.8	46.25	-7.75	54	63.26	32.22	8.63	57.86	124	320	A	V
		3710.4	42.81	-31.19	74	58.1	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		1805	46.86	-47.14	94	67.49	30.63	6.64	57.9	-	-	P	H
		2707.5	48.71	-25.29	74	65.66	32.28	8.61	57.84	142	320	P	H
		2707.5	46.5	-7.5	54	63.45	32.28	8.61	57.84	142	320	A	H
		3610	43.49	-30.51	74	58.9	32.93	9.66	58	-	-	P	H
		1805	41.62	-43.49	85.11	62.25	30.63	6.64	57.9	-	-	P	V
		2707.5	46.52	-27.48	74	63.47	32.28	8.61	57.84	241	155	P	V
		2707.5	44.31	-9.69	54	61.26	32.28	8.61	57.84	241	155	A	V
		3610	43.8	-30.2	74	59.21	32.93	9.66	58	-	-	P	V
915.0MHz		1830	46.95	-47.15	94.1	67.36	30.77	6.72	57.9	-	-	P	H
		2745	49.67	-24.33	74	66.65	32.25	8.62	57.85	241	215	P	H
		2745	47.46	-6.54	54	64.44	32.25	8.62	57.85	241	215	A	H
		3660	43.44	-30.56	74	58.8	33	9.64	58	-	-	P	H
		1830	40.85	-44.25	85.1	61.26	30.77	6.72	57.9	-	-	P	V
		2745	46.58	-27.42	74	63.56	32.25	8.62	57.85	241	200	P	V
		2745	44.37	-9.63	54	61.35	32.25	8.62	57.85	241	200	A	V
		3660	43.74	-30.26	74	59.1	33	9.64	58	-	-	P	V
927.5MHz		1855	43.65	-50.71	94.36	63.64	31.03	6.88	57.9	-	-	P	H
		2782.5	49.52	-24.48	74	66.53	32.22	8.63	57.86	120	241	P	H
		2782.5	47.31	-6.69	54	64.32	32.22	8.63	57.86	120	241	A	H
		3710	42.4	-31.6	74	57.69	33.1	9.61	58	-	-	P	H
		1855	40.81	-43.47	84.28	60.8	31.03	6.88	57.9	-	-	P	V
		2782.5	46.55	-27.45	74	63.56	32.22	8.63	57.86	124	210	P	V
		2782.5	44.34	-9.66	54	61.35	32.22	8.63	57.86	124	210	A	V
		3710	42.08	-31.92	74	57.37	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	21.26	-22.24	43.5	36.22	17.72	2.22	34.9	-	-	P	H
		273.47	23.13	-22.87	46	36.23	18.55	3.1	34.75	-	-	P	H
		870.02	40.3	-54.16	94.46	40.83	29.1	4.4	34.03	-	-	P	H
	*	902.2	114.46	----	----	114.9	29.14	4.42	34	-	-	P	H
		934.04	45.39	-49.07	94.46	45	29.91	4.48	34	-	-	P	H
		131.85	21.3	-22.2	43.5	36.26	17.72	2.22	34.9	-	-	P	V
		275.41	23.15	-22.85	46	36.17	18.62	3.11	34.75	-	-	P	V
	*	902.2	104.79	----	----	105.23	29.14	4.42	34	-	-	P	V
915MHz		135.73	22.07	-21.43	43.5	36.71	18.01	2.25	34.9	-	-	P	H
		282.2	23.87	-22.13	46	36.67	18.8	3.14	34.74	-	-	P	H
	*	915	114.31	----	----	114.52	29.34	4.45	34	-	-	P	H
		134.76	21.1	-22.4	43.5	35.8	17.96	2.24	34.9	-	-	P	V
		285.11	23.46	-22.54	46	36.14	18.9	3.15	34.73	-	-	P	V
	*	915	104.54	----	----	104.75	29.34	4.45	34	-	-	P	V
927.8MHz		135.73	21.37	-22.13	43.5	35.98	18.04	2.25	34.9	-	-	P	H
		283.17	23.71	-22.29	46	36.42	18.89	3.14	34.74	-	-	P	H
	*	927.8	114.34	----	----	114.1	29.77	4.47	34	-	-	P	H
		137.67	20.97	-22.53	43.5	35.41	18.2	2.26	34.9	-	-	P	V
		284.14	24.05	-21.95	46	36.7	18.93	3.15	34.73	-	-	P	V
	*	927.8	104.48	----	----	104.24	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		137.67	21.92	-21.58	43.5	36.36	18.2	2.26	34.9	-	-	P	H
		267.65	23.07	-22.93	46	36.4	18.35	3.08	34.76	-	-	P	H
		870.02	40.54	-54.03	94.57	41.07	29.1	4.4	34.03	-	-	P	H
	*	902.4	114.57	----	----	115.01	29.14	4.42	34	-	-	P	H
		934.04	45.34	-49.23	94.57	44.95	29.91	4.48	34	-	-	P	H
		137.67	20.9	-22.6	43.5	35.34	18.2	2.26	34.9	-	-	P	V
		270.56	23.49	-22.51	46	36.71	18.45	3.09	34.76	-	-	P	V
	*	902.4	104.65	----	----	105.09	29.14	4.42	34	-	-	P	V
915.2MHz		137.67	21.44	-22.06	43.5	35.95	18.13	2.26	34.9	-	-	P	H
		283.17	23.1	-22.9	46	35.87	18.83	3.14	34.74	-	-	P	H
	*	915.2	114.56	----	----	114.77	29.34	4.45	34	-	-	P	H
		136.7	21.31	-22.19	43.5	35.89	18.07	2.25	34.9	-	-	P	V
		276.38	23.57	-22.43	46	36.58	18.62	3.12	34.75	-	-	P	V
		915.2	104.65	----	----	104.86	29.34	4.45	34	-	-	P	V
927.6MHz		131.85	21.24	-22.26	43.5	36.2	17.72	2.22	34.9	-	-	P	H
		278.32	23.06	-22.94	46	35.96	18.72	3.12	34.74	-	-	P	H
	*	927.6	113.87	----	----	113.66	29.74	4.47	34	-	-	P	H
		939.86	49.93	-43.85	93.87	49.39	30.05	4.49	34			P	H
		137.67	21.27	-22.23	43.5	35.71	18.2	2.26	34.9	-	-	P	V
		283.17	23.38	-22.62	46	36.09	18.89	3.14	34.74	-	-	P	V
	*	927.6	104.07	----	----	103.86	29.74	4.47	34	-	-	P	V
		939.86	42.07	-42	84.07	41.53	30.05	4.49	34			P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



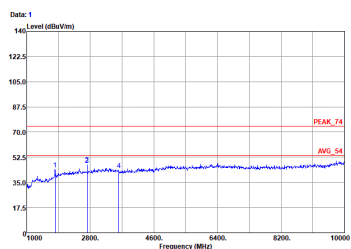
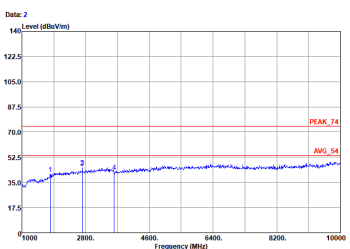
FSK 250K(LF @ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
					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		131.85	21.45	-22.05	43.5	36.41	17.72	2.22	34.9	-	-	P	H
		279.29	23.24	-22.76	46	36.09	18.76	3.13	34.74	-	-	P	H
		870.02	40.51	-53.49	94	41.04	29.1	4.4	34.03	-	-	P	H
	*	902.5	114	----	----	114.44	29.14	4.42	34	-	-	P	H
		934.04	45.76	-48.24	94	45.37	29.91	4.48	34	-	-	P	H
		136.7	21.54	-21.96	43.5	36.07	18.12	2.25	34.9	-	-	P	V
		281.23	24.04	-21.96	46	36.81	18.83	3.14	34.74	-	-	P	V
	*	902.5	105.11	----	----	105.55	29.14	4.42	34	-	-	P	V
927.5MHz		133.79	21.83	-21.67	43.5	36.6	17.9	2.23	34.9	-	-	P	H
		279.29	22.76	-23.24	46	35.66	18.71	3.13	34.74	-	-	P	H
		915	114.01	----	----	114.22	29.34	4.45	34	-	-	P	H
	*	132.82	21.64	-21.86	43.5	36.47	17.84	2.23	34.9	-	-	P	V
		283.17	23.89	-22.11	46	36.66	18.83	3.14	34.74	-	-	P	V
		915	105.1	----	----	105.31	29.34	4.45	34	-	-	P	V
927.5MHz		136.7	20.99	-22.51	43.5	35.52	18.12	2.25	34.9	-	-	P	H
		282.2	24.29	-21.71	46	37.03	18.86	3.14	34.74	-	-	P	H
		806	40.87	-53.49	94.36	41.58	28.99	4.39	34.09	-	-	P	H
	*	927.5	114.36	----	----	114.15	29.74	4.47	34	-	-	P	H
		939.86	50.41	-43.95	94.36	49.87	30.05	4.49	34	-	-	P	V
		132.82	20.83	-22.67	43.5	35.7	17.8	2.23	34.9	-	-	P	V
		284.14	23.48	-22.52	46	36.13	18.93	3.15	34.73	-	-	P	V
	*	927.5	104.28	----	----	104.07	29.74	4.47	34	-	-	P	V
		939.86	41.44	-42.84	84.28	40.9	30.05	4.49	34	-	-	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

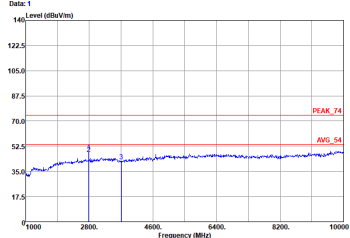
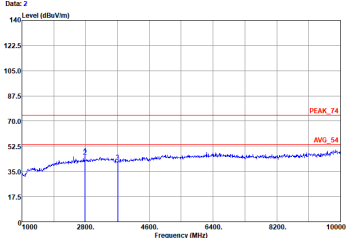
FSK 50Kbps FHSS 50Kbps (Harmonic @ 3m)

LoRa	Harmonic @ 3m																																																																																																																																													
ANT	FSK 50Kbps FHSS 50Kbps CH01 902.2 MHz																																																																																																																																													
	Horizontal	Vertical																																																																																																																																												
Peak	Data: 1 <table><tr><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 Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>1804.48</td><td>44.28</td><td>---</td><td>---</td><td>64.83</td><td>38.63</td><td>6.64</td><td>57.98</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>2786.68</td><td>47.72</td><td>-26.28</td><td>74.00</td><td>64.65</td><td>32.38</td><td>8.61</td><td>57.84</td><td>214</td><td>120</td><td>Peak</td></tr><tr><td>3</td><td>2786.68</td><td>47.32</td><td>-6.68</td><td>54.00</td><td>64.25</td><td>32.38</td><td>8.61</td><td>57.84</td><td>214</td><td>120</td><td>Average</td></tr><tr><td>4</td><td>3688.88</td><td>43.88</td><td>-30.20</td><td>74.00</td><td>59.23</td><td>32.90</td><td>9.67</td><td>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 Factor			MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg	1	1804.48	44.28	---	---	64.83	38.63	6.64	57.98	---	---	Peak	2	2786.68	47.72	-26.28	74.00	64.65	32.38	8.61	57.84	214	120	Peak	3	2786.68	47.32	-6.68	54.00	64.25	32.38	8.61	57.84	214	120	Average	4	3688.88	43.88	-30.20	74.00	59.23	32.90	9.67	58.00	---	---	Peak	Data: 2 <table><tr><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 Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>1804.48</td><td>48.98</td><td>---</td><td>---</td><td>61.61</td><td>38.63</td><td>6.64</td><td>57.98</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>2786.68</td><td>45.59</td><td>-28.41</td><td>74.00</td><td>62.52</td><td>32.38</td><td>8.61</td><td>57.84</td><td>124</td><td>230</td><td>Peak</td></tr><tr><td>3</td><td>2786.68</td><td>45.22</td><td>-8.78</td><td>54.00</td><td>62.15</td><td>32.38</td><td>8.61</td><td>57.84</td><td>124</td><td>230</td><td>Average</td></tr><tr><td>4</td><td>3688.88</td><td>42.37</td><td>-31.63</td><td>74.00</td><td>57.88</td><td>32.90</td><td>9.67</td><td>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 Factor			MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg	1	1804.48	48.98	---	---	61.61	38.63	6.64	57.98	---	---	Peak	2	2786.68	45.59	-28.41	74.00	62.52	32.38	8.61	57.84	124	230	Peak	3	2786.68	45.22	-8.78	54.00	62.15	32.38	8.61	57.84	124	230	Average	4	3688.88	42.37	-31.63	74.00	57.88	32.90	9.67	58.00	---	---	Peak
	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																																																							
Freq	Level	Line	Level Factor	Loss Factor																																																																																																																																										
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg																																																																																																																																							
1	1804.48	44.28	---	---	64.83	38.63	6.64	57.98	---	---	Peak																																																																																																																																			
2	2786.68	47.72	-26.28	74.00	64.65	32.38	8.61	57.84	214	120	Peak																																																																																																																																			
3	2786.68	47.32	-6.68	54.00	64.25	32.38	8.61	57.84	214	120	Average																																																																																																																																			
4	3688.88	43.88	-30.20	74.00	59.23	32.90	9.67	58.00	---	---	Peak																																																																																																																																			
Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																																																								
Freq	Level	Line	Level Factor	Loss Factor																																																																																																																																										
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg																																																																																																																																							
1	1804.48	48.98	---	---	61.61	38.63	6.64	57.98	---	---	Peak																																																																																																																																			
2	2786.68	45.59	-28.41	74.00	62.52	32.38	8.61	57.84	124	230	Peak																																																																																																																																			
3	2786.68	45.22	-8.78	54.00	62.15	32.38	8.61	57.84	124	230	Average																																																																																																																																			
4	3688.88	42.37	-31.63	74.00	57.88	32.90	9.67	58.00	---	---	Peak																																																																																																																																			



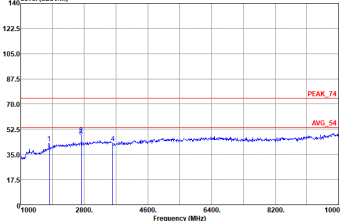
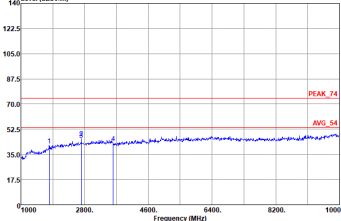
LoRa	Harmonic @ 3m																																																																																	
ANT	FSK 50Kbps FHSS 50Kbps CH65 915 MHz																																																																																	
	Horizontal						Vertical																																																																											
Peak	Date: 1 Level (dBuV/m) Frequency (MHz) <table><tr><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 Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><td>1 2745.00</td><td>49.67</td><td>-24.33</td><td>74.00</td><td>66.65</td><td>32.25</td><td>8.62 57.85 124 320 Peak</td></tr><tr><td>2 2745.00</td><td>49.27</td><td>-4.73</td><td>54.00</td><td>66.25</td><td>32.25</td><td>8.62 57.85 124 320 Average</td></tr><tr><td>3 3600.00</td><td>42.65</td><td>-31.35</td><td>74.00</td><td>58.01</td><td>33.00</td><td>9.64 58.00 --- --- Peak</td></tr></table>						Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Freq	Level	Line	Level Factor	Loss Factor			1 2745.00	49.67	-24.33	74.00	66.65	32.25	8.62 57.85 124 320 Peak	2 2745.00	49.27	-4.73	54.00	66.25	32.25	8.62 57.85 124 320 Average	3 3600.00	42.65	-31.35	74.00	58.01	33.00	9.64 58.00 --- --- Peak	Date: 2 Level (dBuV/m) Frequency (MHz) <table><tr><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 Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><td>1 2745.00</td><td>46.27</td><td>-27.73</td><td>74.00</td><td>63.25</td><td>32.25</td><td>8.62 57.85 135 241 Peak</td></tr><tr><td>2 2745.00</td><td>45.87</td><td>-8.13</td><td>54.00</td><td>62.85</td><td>32.25</td><td>8.62 57.85 135 241 Average</td></tr><tr><td>3 3600.00</td><td>43.68</td><td>-30.32</td><td>74.00</td><td>59.04</td><td>33.00</td><td>9.64 58.00 --- --- Peak</td></tr></table>						Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Freq	Level	Line	Level Factor	Loss Factor			1 2745.00	46.27	-27.73	74.00	63.25	32.25	8.62 57.85 135 241 Peak	2 2745.00	45.87	-8.13	54.00	62.85	32.25	8.62 57.85 135 241 Average	3 3600.00	43.68	-30.32	74.00	59.04	33.00	9.64 58.00 --- --- Peak
	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																											
	Freq	Level	Line	Level Factor	Loss Factor																																																																													
	1 2745.00	49.67	-24.33	74.00	66.65	32.25	8.62 57.85 124 320 Peak																																																																											
2 2745.00	49.27	-4.73	54.00	66.25	32.25	8.62 57.85 124 320 Average																																																																												
3 3600.00	42.65	-31.35	74.00	58.01	33.00	9.64 58.00 --- --- Peak																																																																												
Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																												
Freq	Level	Line	Level Factor	Loss Factor																																																																														
1 2745.00	46.27	-27.73	74.00	63.25	32.25	8.62 57.85 135 241 Peak																																																																												
2 2745.00	45.87	-8.13	54.00	62.85	32.25	8.62 57.85 135 241 Average																																																																												
3 3600.00	43.68	-30.32	74.00	59.04	33.00	9.64 58.00 --- --- Peak																																																																												



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

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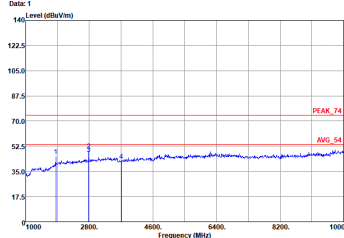
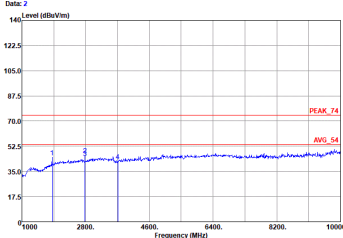
FSK 250Kbps FHSS 250Kbps (Harmonic @ 3m)

LoRa	Harmonic @ 3m																																																																																																																									
ANT	FSK 250Kbps FHSS 250Kbps CH01 902.5 MHz																																																																																																																									
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Peak	Date: 1 <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>Line</th><th>ReadAntenna</th><th>Cable</th><th>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>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 1895.00</td><td>46.86</td><td>---</td><td>---</td><td>67.49</td><td>38.63</td><td>6.64</td><td>57.90</td><td>---</td><td>Peak</td></tr><tr><td>2 2787.50</td><td>46.71</td><td>-25.29</td><td>74.00</td><td>65.66</td><td>32.28</td><td>8.61</td><td>57.84</td><td>142</td><td>320 Peak</td></tr><tr><td>3 2787.50</td><td>46.50</td><td>-7.50</td><td>54.00</td><td>63.45</td><td>32.28</td><td>8.61</td><td>57.84</td><td>142</td><td>320 Average</td></tr><tr><td>4 3618.00</td><td>43.49</td><td>-30.51</td><td>74.00</td><td>58.90</td><td>32.93</td><td>9.66</td><td>58.00</td><td>---</td><td>Peak</td></tr></table>	Freq	Level	Over Limit	Line	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1 1895.00	46.86	---	---	67.49	38.63	6.64	57.90	---	Peak	2 2787.50	46.71	-25.29	74.00	65.66	32.28	8.61	57.84	142	320 Peak	3 2787.50	46.50	-7.50	54.00	63.45	32.28	8.61	57.84	142	320 Average	4 3618.00	43.49	-30.51	74.00	58.90	32.93	9.66	58.00	---	Peak	Date: 2 <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>Line</th><th>ReadAntenna</th><th>Cable</th><th>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>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 1895.00</td><td>41.62</td><td>---</td><td>---</td><td>62.25</td><td>38.63</td><td>6.64</td><td>57.90</td><td>---</td><td>Peak</td></tr><tr><td>2 2787.50</td><td>46.52</td><td>-27.48</td><td>74.00</td><td>63.47</td><td>32.28</td><td>8.61</td><td>57.84</td><td>241</td><td>155 Peak</td></tr><tr><td>3 2787.50</td><td>44.31</td><td>-9.69</td><td>54.00</td><td>61.26</td><td>32.28</td><td>8.61</td><td>57.84</td><td>241</td><td>155 Average</td></tr><tr><td>4 3618.00</td><td>43.00</td><td>-30.28</td><td>74.00</td><td>59.21</td><td>32.93</td><td>9.66</td><td>58.00</td><td>---</td><td>Peak</td></tr></table>	Freq	Level	Over Limit	Line	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1 1895.00	41.62	---	---	62.25	38.63	6.64	57.90	---	Peak	2 2787.50	46.52	-27.48	74.00	63.47	32.28	8.61	57.84	241	155 Peak	3 2787.50	44.31	-9.69	54.00	61.26	32.28	8.61	57.84	241	155 Average	4 3618.00	43.00	-30.28	74.00	59.21	32.93	9.66	58.00	---	Peak
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LoRa	Harmonic @ 3m																																																																																																																																																							
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Peak	Date: 1 Level (dBuV/m) Frequency (MHz) <table><tr><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 Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><td>MHz</td><td>dBuV/m</td><td>dB</td><td>dBuV/m</td><td>dB/m</td><td>dB</td><td>cm</td><td>deg</td></tr><tr><td>1</td><td>1838.00</td><td>46.95</td><td>---</td><td>---</td><td>67.36</td><td>30.77</td><td>6.72</td><td>57.90</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>2745.00</td><td>49.67</td><td>-24.33</td><td>74.00</td><td>66.65</td><td>32.25</td><td>8.62</td><td>57.85</td><td>241</td><td>215</td><td>Peak</td></tr><tr><td>3</td><td>2745.00</td><td>47.46</td><td>-6.54</td><td>54.00</td><td>64.44</td><td>32.25</td><td>8.62</td><td>57.85</td><td>241</td><td>215</td><td>Average</td></tr><tr><td>4</td><td>3660.00</td><td>43.44</td><td>-30.56</td><td>74.00</td><td>58.80</td><td>33.00</td><td>9.64</td><td>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 Factor			MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg	1	1838.00	46.95	---	---	67.36	30.77	6.72	57.90	---	---	Peak	2	2745.00	49.67	-24.33	74.00	66.65	32.25	8.62	57.85	241	215	Peak	3	2745.00	47.46	-6.54	54.00	64.44	32.25	8.62	57.85	241	215	Average	4	3660.00	43.44	-30.56	74.00	58.80	33.00	9.64	58.00	---	---	Peak	Date: 2 Level (dBuV/m) Frequency (MHz) <table><tr><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 Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><td>MHz</td><td>dBuV/m</td><td>dB</td><td>dBuV/m</td><td>dB/m</td><td>dB</td><td>cm</td><td>deg</td></tr><tr><td>1</td><td>1838.00</td><td>43.85</td><td>---</td><td>---</td><td>64.26</td><td>30.77</td><td>6.72</td><td>57.90</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>2745.00</td><td>46.58</td><td>-27.42</td><td>74.00</td><td>63.56</td><td>32.25</td><td>8.62</td><td>57.85</td><td>241</td><td>200</td><td>Peak</td></tr><tr><td>3</td><td>2745.00</td><td>44.37</td><td>-9.63</td><td>54.00</td><td>61.35</td><td>32.25</td><td>8.62</td><td>57.85</td><td>241</td><td>200</td><td>Average</td></tr><tr><td>4</td><td>3660.00</td><td>43.74</td><td>-30.26</td><td>74.00</td><td>59.10</td><td>33.00</td><td>9.64</td><td>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 Factor			MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg	1	1838.00	43.85	---	---	64.26	30.77	6.72	57.90	---	---	Peak	2	2745.00	46.58	-27.42	74.00	63.56	32.25	8.62	57.85	241	200	Peak	3	2745.00	44.37	-9.63	54.00	61.35	32.25	8.62	57.85	241	200	Average	4	3660.00	43.74	-30.26	74.00	59.10	33.00	9.64	58.00	---	---	Peak
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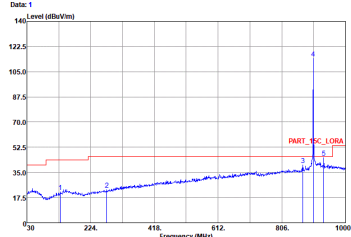
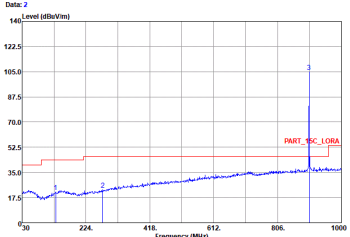


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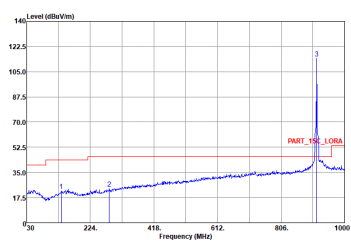
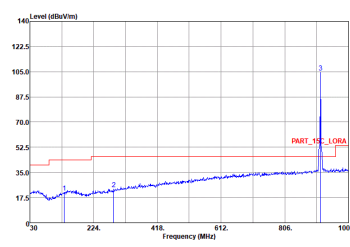


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FSK 50Kbps FHSS 50Kbps (LF @ 3m)

LoRa	LF @ 3m																																																																																																																																													
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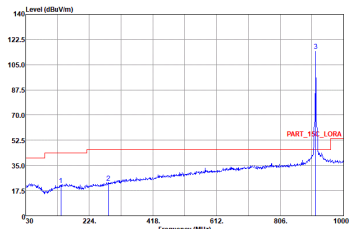
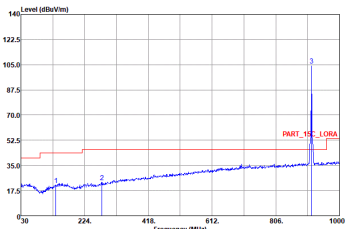
LoRa	LF @ 3m										
ANT	FSK 50Kbps FHSS 50Kbps CH129 927.8 MHz										



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

LoRa	LF @ 3m																																																																																																																															
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1	137.67	20.90	-22.68	43.50	35.34	18.20	2.26	34.90																																																																																																																								
2	270.56	23.49	-22.51	46.00	36.71	18.45	3.09	34.76																																																																																																																								
3	982.40	104.65	-----	105.09	29.14	4.42	34.00	--- Peak																																																																																																																								



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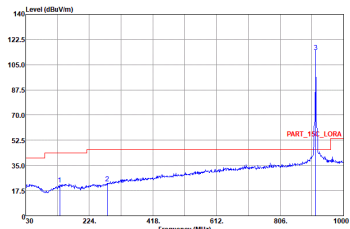
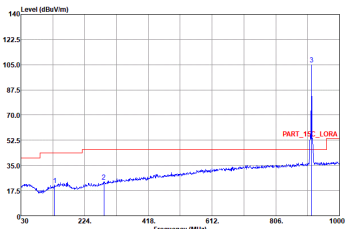
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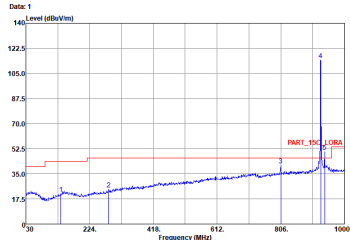
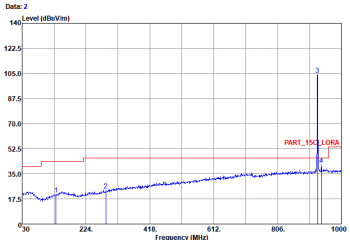
FSK 250Kbps FHSS 250Kbps (LF @ 3m)

LoRa	LF @ 3m																																																																																																																	
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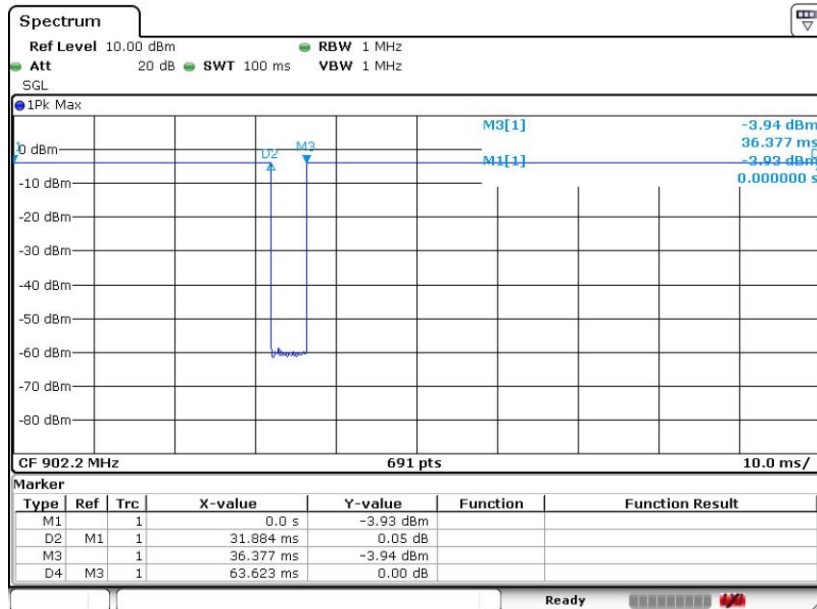
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2	283.170	23.89	-22.11	46.00	36.66	18.83	3.14	34.74	---	---	Peak																																																																																																					
3	915.000	105.10	---	---	105.31	29.34	4.45	34.00	---	---	Peak																																																																																																					



LoRa	LF @ 3m																																																																																																																																																
ANT	FSK 250Kbps FHSS 250Kbps CH51 927.5 MHz																																																																																																																																																
	Horizontal	Vertical																																																																																																																																															
Peak	Date: 1 <table><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>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>136.78</td><td>28.99</td><td>-22.51</td><td>43.58</td><td>35.52</td><td>18.12</td><td>2.25</td><td>34.98</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>282.28</td><td>24.29</td><td>-21.71</td><td>46.00</td><td>37.63</td><td>18.86</td><td>3.14</td><td>34.74</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>886.08</td><td>48.87</td><td>-----</td><td>41.58</td><td>28.99</td><td>4.39</td><td>34.89</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>927.58</td><td>114.36</td><td>-----</td><td>114.15</td><td>29.74</td><td>4.47</td><td>34.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>939.86</td><td>58.41</td><td>-----</td><td>49.87</td><td>38.05</td><td>4.49</td><td>34.00</td><td>---</td><td>---</td><td>Peak</td></tr></table>		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	136.78	28.99	-22.51	43.58	35.52	18.12	2.25	34.98	---	Peak	2	282.28	24.29	-21.71	46.00	37.63	18.86	3.14	34.74	---	Peak	3	886.08	48.87	-----	41.58	28.99	4.39	34.89	---	---	Peak	4	927.58	114.36	-----	114.15	29.74	4.47	34.00	---	---	Peak	5	939.86	58.41	-----	49.87	38.05	4.49	34.00	---	---	Peak	Date: 2 <table><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>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>132.82</td><td>28.83</td><td>-22.67</td><td>43.58</td><td>35.78</td><td>17.88</td><td>2.23</td><td>34.98</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>284.14</td><td>23.48</td><td>-22.52</td><td>46.00</td><td>36.13</td><td>18.93</td><td>3.15</td><td>34.73</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>927.58</td><td>184.28</td><td>-----</td><td>184.07</td><td>29.74</td><td>4.47</td><td>34.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>939.86</td><td>41.44</td><td>-----</td><td>48.98</td><td>38.05</td><td>4.49</td><td>34.00</td><td>---</td><td>---</td><td>Peak</td></tr></table>		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	132.82	28.83	-22.67	43.58	35.78	17.88	2.23	34.98	---	Peak	2	284.14	23.48	-22.52	46.00	36.13	18.93	3.15	34.73	---	Peak	3	927.58	184.28	-----	184.07	29.74	4.47	34.00	---	---	Peak	4	939.86	41.44	-----	48.98	38.05	4.49	34.00	---	---	Peak
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Appendix D. Duty Cycle Plots

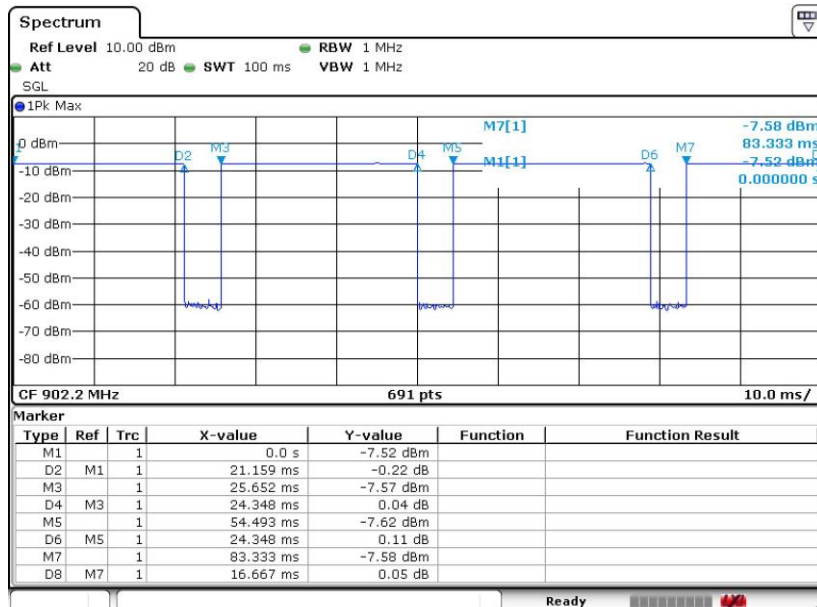
FSK(FHSS)50kbps on time Plot



Note:

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

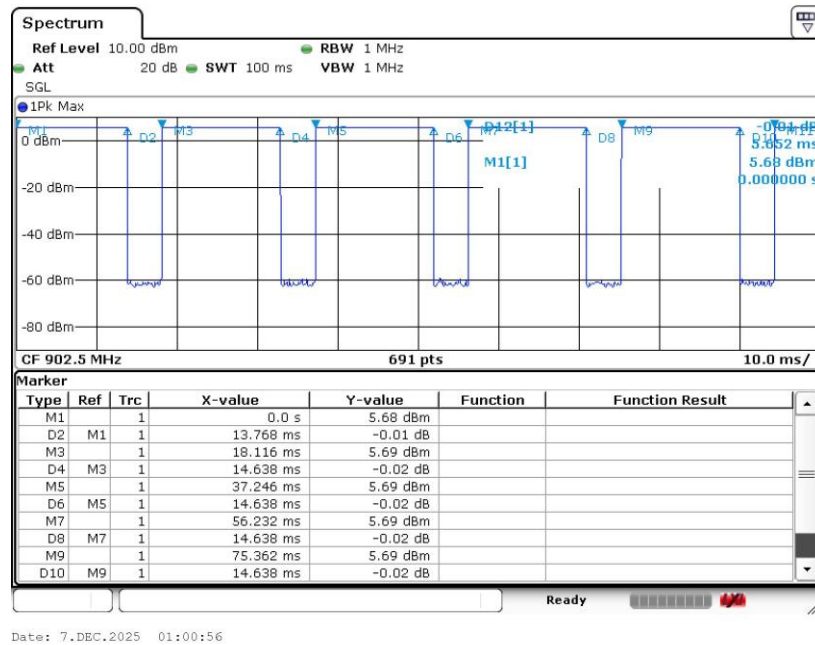
FSK(FHSS)150kbps on time Plot



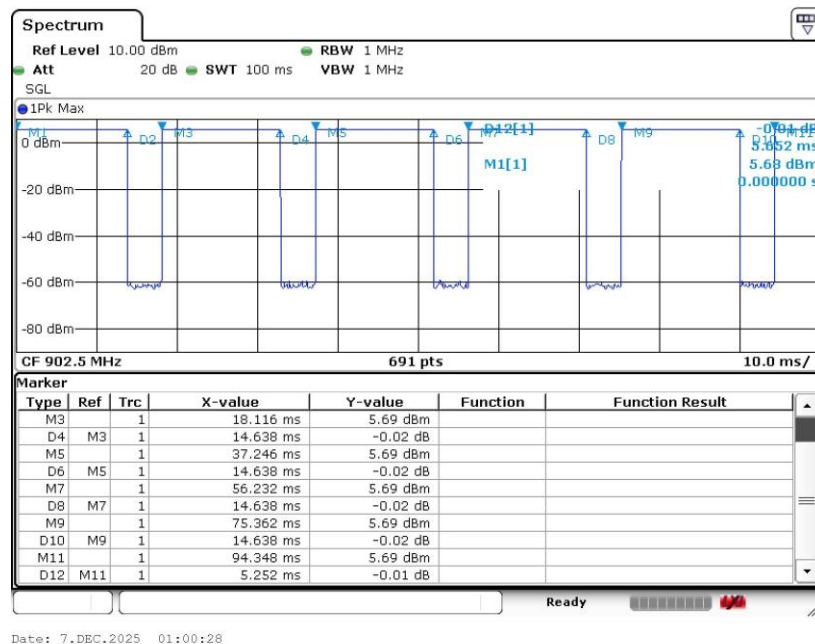
Note:

1. Duty cycle = on time/100 milliseconds = 86.52 %
2. 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. Duty cycle = on time/100 milliseconds = 77.57 %
2. Duty cycle correction factor = $20 \times \log(\text{Duty cycle}) = -2.21 \text{ dB}$