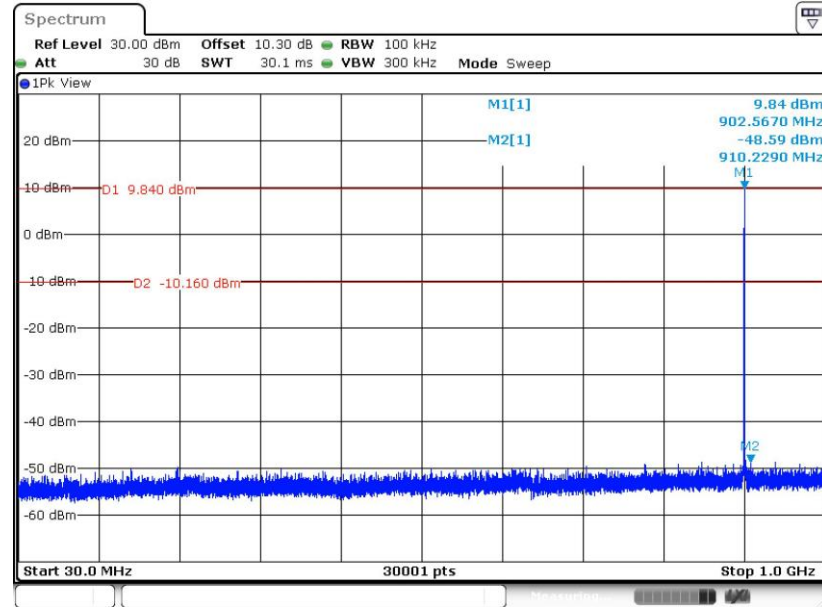




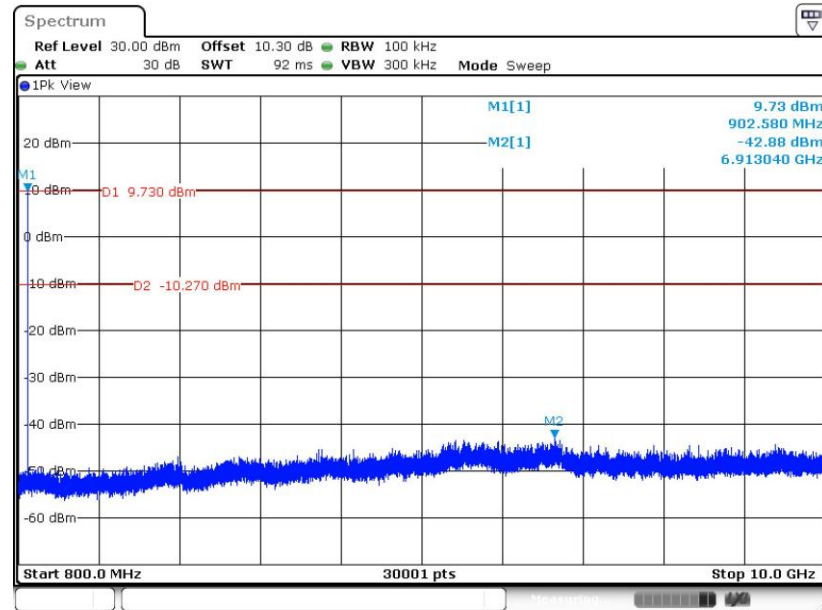
<Data Rate 250kbps>

Low CH CSE Plot



Date: 6.NOV.2025 14:12:53

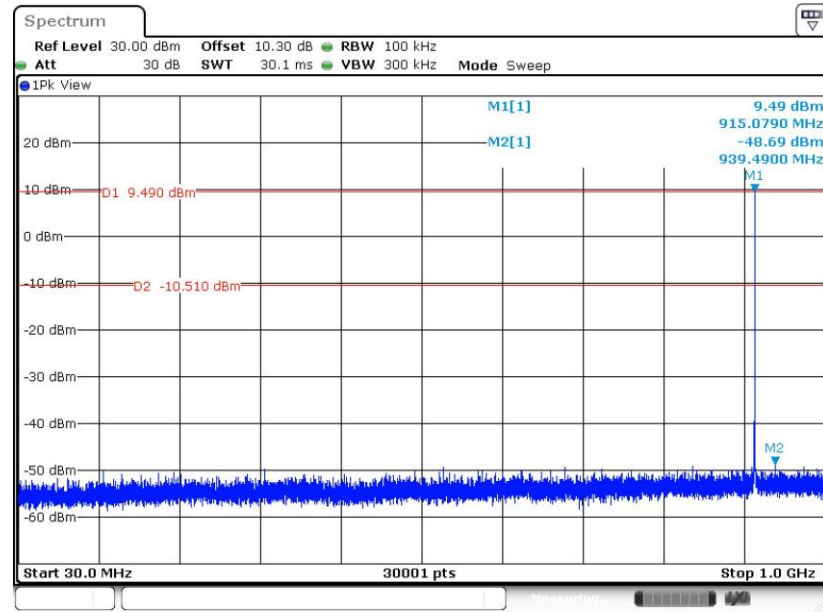
Low CH CSE Plot



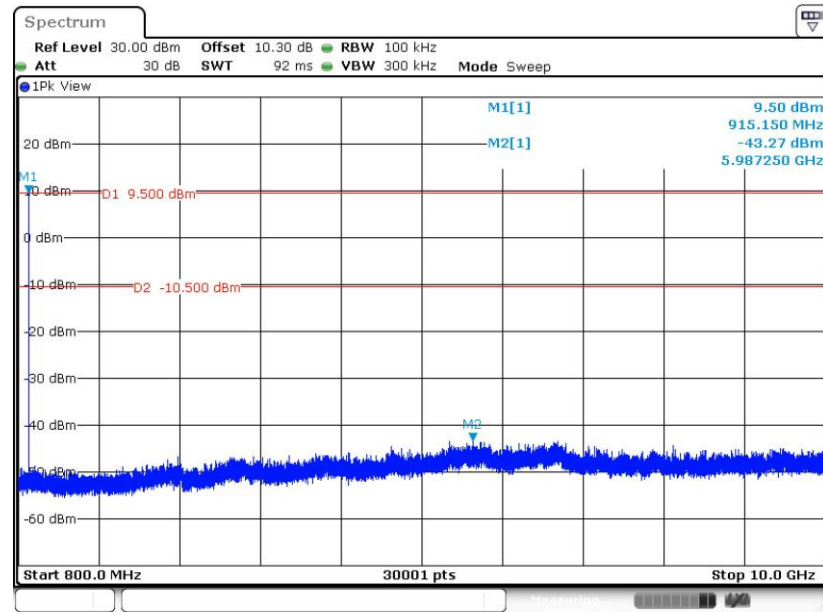
Date: 6.NOV.2025 14:13:36



Mid CH CSE Plot

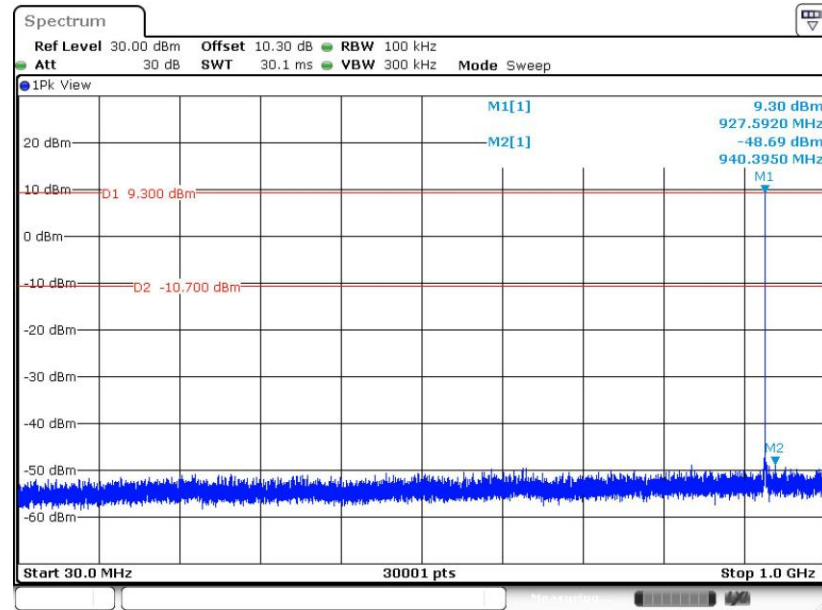


Mid CH CSE Plot



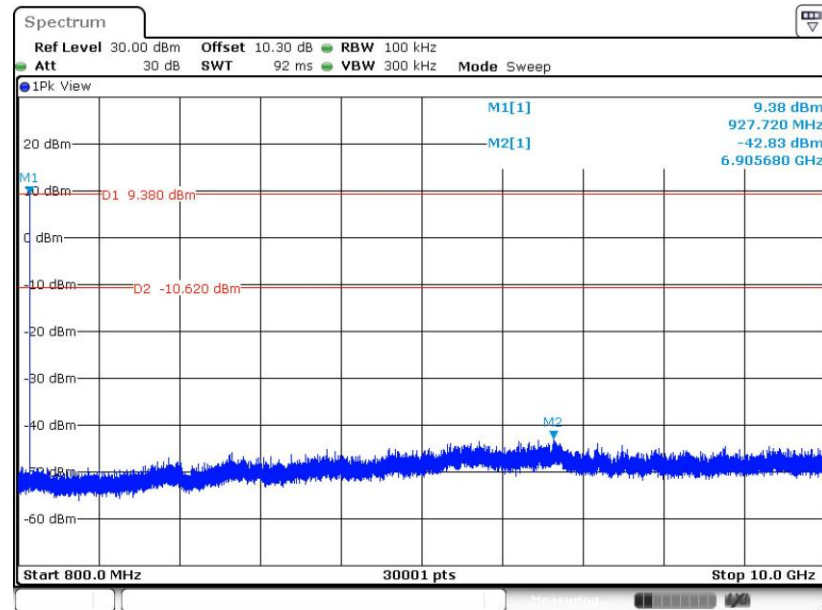


High CH CSE Plot



Date: 6.NOV.2025 14:26:12

High CH CSE Plot



Date: 6.NOV.2025 14:27:08

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

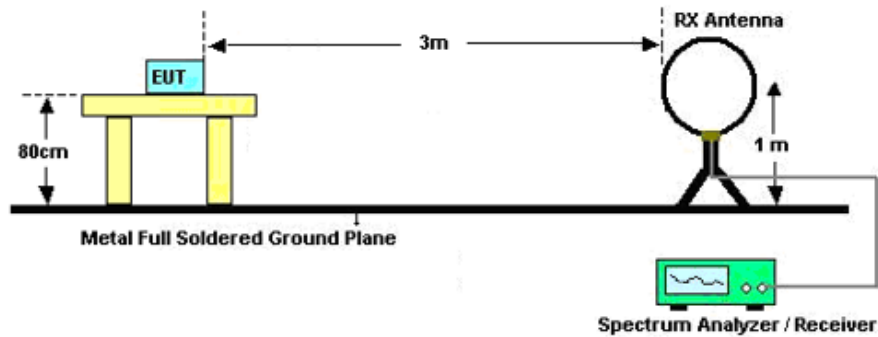
The measuring equipment is listed in the section 4 of this test report.

3.8.3 Test Procedures

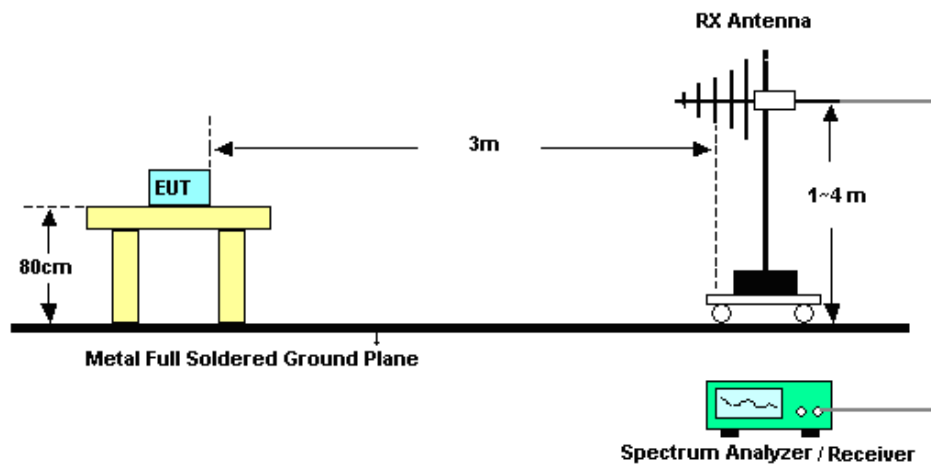
1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5 and 6.6.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the 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
 $\text{On time} = N_1 \cdot L_1 + N_2 \cdot L_2 + \dots + N_{n-1} \cdot L_{n-1} + N_n \cdot L_n$
Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + $20 \cdot \log(\text{Duty cycle})$
7. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
8. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
9. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.8.4 Test Setup

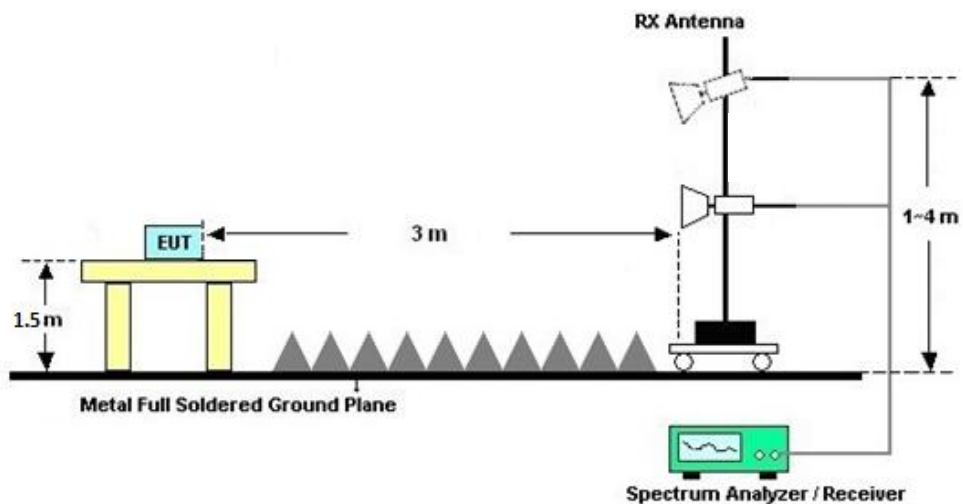
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

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

Please refer to Appendix B&C.

3.8.7 Duty cycle

Please refer to Appendix D.



3.9 Antenna Requirements

3.9.1 Standard Applicable

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

3.9.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.9.3 Antenna Gain

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	Nov. 06, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Nov. 06, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 13, 2025	Nov. 06, 2025	Oct. 12, 2026	Conducted (TH01-SZ)
Attenuator	Woken Tech	WK0602-10	4	10dB	Jan. 13, 2025	Nov. 06, 2025	Jan. 12, 2026	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 02, 2025	Nov. 01, 2025~Dec. 03, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
EXA Signal Analyzer	KEYSIGHT	N9010B	MY59071191	10KHz~44GHz	Apr. 02, 2025	Nov. 01, 2025~Dec. 03, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Nov. 01, 2025~Dec. 03, 2025	Dec. 27, 2025	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Aug. 19, 2025	Nov. 01, 2025~Dec. 03, 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. 03, 2025	Jul. 12, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Nov. 01, 2025~Dec. 03, 2025	Jul. 02, 2026	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 03, 2025	Nov. 01, 2025~Dec. 03, 2025	Apr. 02, 2027	Radiation (03CH03-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz~3000MHz	Apr. 02, 2025	Nov. 01, 2025~Dec. 03, 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. 03, 2025	Oct. 12, 2026	Radiation (03CH03-SZ)
HF Amplifier	Keysight	83017A	MY53270357	500MHz~26.5GHz	Apr. 02, 2025	Nov. 01, 2025~Dec. 03, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 17, 2025	Nov. 01, 2025~Dec. 03, 2025	Oct. 16, 2026	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 01, 2025~Dec. 03, 2025	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 01, 2025~Dec. 03, 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% ($U = 2Uc(y)$)	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:	2025/11/6	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	0.103	0.200	0.1068	Pass
FSK	50Kbps	1	65	915	0.107	0.500	0.102	0.200	0.1068	Pass
FSK	50Kbps	1	129	927.8	0.106	0.500	0.104	0.200	0.1059	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	10.94	14.00	30.00	-4.11	6.83	36	Pass
	915	1	10.42	14.00	30.00	-4.11	6.31	36	Pass
	927.8	1	10.31	14.00	30.00	-4.11	6.20	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	0.157	0.401	0.1742	Pass
FSK	150Kbps	1	915.2	0.173	0.500	0.156	0.401	0.1729	Pass
FSK	150Kbps	1	927.6	0.174	0.500	0.156	0.401	0.1744	Pass

TEST RESULTS DATA
Dwell Time

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

TEST RESULTS DATA
Peak Power Table

mode	Freq. (MHz)	NTX	Peak Power (dBm)	Power Setting	Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Test Result
FSK	902.4	1	10.91	14.00	30.00	-4.11	6.80	36	Pass
	915.2	1	10.52	14.00	30.00	-4.11	6.41	36	Pass
	927.6	1	10.39	14.00	30.00	-4.11	6.28	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	0.273	0.500	0.254	0.499	0.2725	Pass
FSK	250Kbps	1	915	0.269	0.500	0.252	0.499	0.2692	Pass
FSK	250Kbps	1	927.5	0.267	0.500	0.254	0.499	0.2670	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	376.68	0.377	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	10.93	14.00	30.00	-4.11	6.82	36	Pass
	915	1	10.51	14.00	30.00	-4.11	6.40	36	Pass
	927.5	1	10.37	14.00	30.00	-4.11	6.26	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)	(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	46.12	-27.88	74	63.05	32.3	8.61	57.84	100	96	P	H
		2706.6	45.73	-8.27	54	62.66	32.3	8.61	57.84	100	96	A	H
		3608.8	42.91	-31.09	74	58.34	32.9	9.67	58	-	-	P	H
		2706.6	47.32	-26.68	74	64.25	32.3	8.61	57.84	172	190	P	V
		2706.6	46.93	-7.07	54	63.86	32.3	8.61	57.84	172	190	A	V
		3608.8	42.47	-31.53	74	57.9	32.9	9.67	58	-	-	P	V
915MHz		2745	45.72	-28.28	74	62.7	32.25	8.62	57.85	100	166	P	H
		2745	45.33	-8.67	54	62.31	32.25	8.62	57.85	100	166	A	H
		3660	43.3	-30.7	74	58.66	33	9.64	58	-	-	P	H
		2745	47.27	-26.73	74	64.25	32.25	8.62	57.85	169	203	P	V
		2745	46.88	-7.12	54	63.86	32.25	8.62	57.85	169	203	A	V
		3660	45.08	-28.92	74	60.44	33	9.64	58	-	-	P	V
927.8MHz		2783.4	46.87	-27.13	74	63.88	32.22	8.63	57.86	100	266	P	H
		2783.4	46.48	-7.52	54	63.49	32.22	8.63	57.86	100	266	A	H
		3711.2	42.63	-31.37	74	57.92	33.1	9.61	58	-	-	P	H
		2783.4	48.95	-25.05	74	65.96	32.22	8.63	57.86	179	195	P	V
		2783.4	48.56	-5.44	54	65.57	32.22	8.63	57.86	179	195	A	V
		3711.2	44.61	-29.39	74	59.9	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	46.2	-27.8	74	63.15	32.28	8.61	57.84	100	92	P	H
		2707.2	44.93	-9.07	54	61.88	32.28	8.61	57.84	100	92	A	H
		3609.6	42.75	-31.25	74	58.18	32.9	9.67	58	-	-	P	H
		2707.2	46.89	-27.11	74	63.84	32.28	8.61	57.84	136	216	P	V
		2707.2	45.62	-8.38	54	62.57	32.28	8.61	57.84	136	216	A	V
		3609.6	44.03	-29.97	74	59.46	32.9	9.67	58	-	-	P	V
915.2MHz		2745.6	45.6	-28.4	74	62.58	32.25	8.62	57.85	100	244	P	H
		2745.6	44.33	-9.67	54	61.31	32.25	8.62	57.85	100	244	A	H
		3660.8	41.79	-32.21	74	57.15	33	9.64	58	-	-	P	H
		2745.6	47.93	-26.07	74	64.91	32.25	8.62	57.85	190	192	P	V
		2745.6	46.66	-7.34	54	63.64	32.25	8.62	57.85	190	192	A	V
		3660.8	43.41	-30.59	74	58.77	33	9.64	58	-	-	P	V
927.6MHz		2782.8	46.87	-27.13	74	63.88	32.22	8.63	57.86	100	153	P	H
		2782.8	45.6	-8.4	54	62.61	32.22	8.63	57.86	100	153	A	H
		3710.4	42.42	-31.58	74	57.71	33.1	9.61	58	-	-	P	H
		2782.8	49.18	-24.82	74	66.19	32.22	8.63	57.86	181	191	P	V
		2782.8	47.91	-6.09	54	64.92	32.22	8.63	57.86	181	191	A	V
		3710.4	43.28	-30.72	74	58.57	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	45.11	-28.89	74	62.06	32.28	8.61	57.84	100	182	P	H
		2707.5	42.88	-11.12	54	59.83	32.28	8.61	57.84	100	182	A	H
		3610	43.25	-30.75	74	58.66	32.93	9.66	58	-	-	P	H
		2707.5	46.6	-27.4	74	63.55	32.28	8.61	57.84	176	197	P	V
		2707.5	44.37	-9.63	54	61.32	32.28	8.61	57.84	176	197	A	V
		3610	44.5	-29.5	74	59.91	32.93	9.66	58	-	-	P	V
915.0MHz		2745	44.87	-29.13	74	61.85	32.25	8.62	57.85	100	246	P	H
		2745	42.64	-11.36	54	59.62	32.25	8.62	57.85	100	246	A	H
		3660	42.84	-31.16	74	58.2	33	9.64	58	-	-	P	H
		2745	47.05	-26.95	74	64.03	32.25	8.62	57.85	165	195	P	V
		2745	44.82	-9.18	54	61.8	32.25	8.62	57.85	165	195	A	V
		3660	44.34	-29.66	74	59.7	33	9.64	58	-	-	P	V
927.5MHz		2782.5	46.43	-27.57	74	63.44	32.22	8.63	57.86	102	37	P	H
		2782.5	44.2	-9.8	54	61.21	32.22	8.63	57.86	102	37	A	H
		3710	41.59	-32.41	74	56.88	33.1	9.61	58	-	-	P	H
		2782.8	49.12	-24.88	74	66.13	32.22	8.63	57.86	145	353	P	V
		2782.8	46.89	-7.11	54	63.9	32.22	8.63	57.86	145	353	A	V
		3710.4	43.8	-30.2	74	59.09	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		135.73	22.2	-21.3	43.5	36.81	18.04	2.25	34.9	-	-	P	H
		284.14	24.18	-21.82	46	36.83	18.93	3.15	34.73	-	-	P	H
		902.2	100.8	---	---	101.24	29.14	4.42	34	-	-	P	H
		136.7	22.75	-20.75	43.5	37.28	18.12	2.25	34.9	-	-	P	V
		271.53	24.4	-21.6	46	37.57	18.49	3.1	34.76	-	-	P	V
		902.2	92.77	---	---	93.18	29.16	4.43	34	-	-	P	V
915MHz		133.79	20.99	-22.51	43.5	35.76	17.9	2.23	34.9	-	-	P	H
		274.44	22.71	-23.29	46	35.8	18.55	3.11	34.75	-	-	P	H
		915	101.35	---	---	101.56	29.34	4.45	34	-	-	P	H
		130.88	21.95	-21.55	43.5	36.9	17.73	2.22	34.9	-	-	P	V
		285.11	23.23	-22.77	46	35.91	18.9	3.15	34.73	-	-	P	V
		915	92.25	---	---	92.46	29.34	4.45	34	-	-	P	V
927.8MHz		136.7	21.97	-21.53	43.5	36.5	18.12	2.25	34.9	-	-	P	H
		275.41	24.1	-21.9	46	37.12	18.62	3.11	34.75	-	-	P	H
		927.8	101.74	---	---	101.5	29.77	4.47	34	-	-	P	H
		137.67	21.28	-22.22	43.5	35.72	18.2	2.26	34.9	-	-	P	V
		275.41	23.72	-22.28	46	36.74	18.62	3.11	34.75	-	-	P	V
		927.8	92.67	---	---	92.43	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		130.88	21.22	-22.28	43.5	36.26	17.64	2.22	34.9	-	-	P	H
		284.14	23.33	-22.67	46	35.98	18.93	3.15	34.73	-	-	P	H
		902.4	100.82	---	---	101.26	29.14	4.42	34	-	-	P	H
		133.79	21.4	-22.1	43.5	36.19	17.88	2.23	34.9	-	-	P	V
		285.11	23.24	-22.76	46	35.86	18.96	3.15	34.73	-	-	P	V
		902.4	92.78	---	---	93.22	29.14	4.42	34	-	-	P	V
915.2MHz		132.82	21.32	-22.18	43.5	36.15	17.84	2.23	34.9	-	-	P	H
		285.11	23.81	-22.19	46	36.49	18.9	3.15	34.73	-	-	P	H
		915.2	101.34	---	---	101.55	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
		277.35	22.73	-23.27	46	35.71	18.65	3.12	34.75	-	-	P	V
		915.2	92.41	---	---	92.62	29.34	4.45	34	-	-	P	V
927.6MHz		129.91	22.49	-21.01	43.5	37.62	17.56	2.21	34.9	-	-	P	H
		270.56	23.53	-22.47	46	36.75	18.45	3.09	34.76	-	-	P	H
		927.6	101.62	---	---	101.41	29.74	4.47	34	-	-	P	H
		136.7	21.59	-21.91	43.5	36.12	18.12	2.25	34.9	-	-	P	V
		275.41	23.4	-22.6	46	36.42	18.62	3.11	34.75	-	-	P	V
		927.6	92.16	---	---	91.95	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.
					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		136.7	21.56	-21.94	43.5	36.09	18.12	2.25	34.9	-	-	P	H
		281.23	24.25	-21.75	46	37.02	18.83	3.14	34.74	-	-	P	H
		902.5	100.89	---	---	101.3	29.16	4.43	34	-	-	P	H
		137.67	22.3	-21.2	43.5	36.74	18.2	2.26	34.9	-	-	P	V
		281.23	24.21	-21.79	46	36.98	18.83	3.14	34.74	-	-	P	V
		902.5	93.01	---	---	93.45	29.14	4.42	34	-	-	P	V
915MHz		135.73	21.32	-22.18	43.5	35.96	18.01	2.25	34.9	-	-	P	H
		282.2	22.96	-23.04	46	35.76	18.8	3.14	34.74	-	-	P	H
		915	101.4	---	---	101.61	29.34	4.45	34	-	-	P	H
		136.7	21.11	-22.39	43.5	35.69	18.07	2.25	34.9	-	-	P	V
		279.29	23.23	-22.77	46	36.13	18.71	3.13	34.74	-	-	P	V
		915	92.73	---	---	92.94	29.34	4.45	34	-	-	P	V
927.5MHz		137.67	23.01	-20.49	43.5	37.45	18.2	2.26	34.9	-	-	P	H
		269.59	23.33	-22.67	46	36.58	18.42	3.09	34.76	-	-	P	H
		927.5	101.72	---	---	101.51	29.74	4.47	34	-	-	P	H
		127	21.5	-22	43.5	36.9	17.31	2.19	34.9	-	-	P	V
		275.41	23.7	-22.3	46	36.72	18.62	3.11	34.75	-	-	P	V
		927.5	92.45	---	---	92.24	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 C. Radiated Spurious Emission Plots

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

LoRa

Harmonic @ 3m

ANT

FSK 50Kbps FHSS 50Kbps CH01 902.2 MHz

Horizontal

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	2786.60	46.12	-27.88	74.00	63.05	32.30	8.61	57.84	100	96 Peak
2	2786.60	45.73	-8.27	54.00	62.66	32.30	8.61	57.84	100	96 Average
3	3008.00	42.91	-31.09	74.00	58.34	32.90	9.67	58.00	---	---

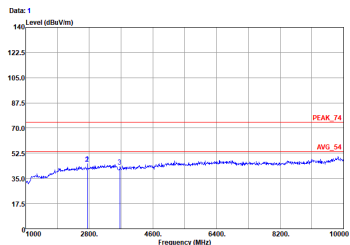
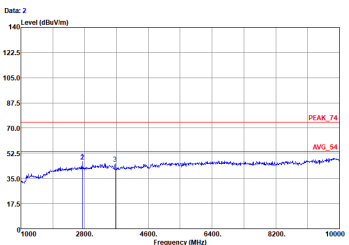
Vertical

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	2786.60	47.32	-26.68	74.00	64.25	32.30	8.61	57.84	172	190 Peak
2	2786.60	46.93	-7.07	54.00	63.86	32.30	8.61	57.84	172	190 Average
3	3008.00	42.47	-31.53	74.00	57.90	32.90	9.67	58.00	---	---

Peak

Peak



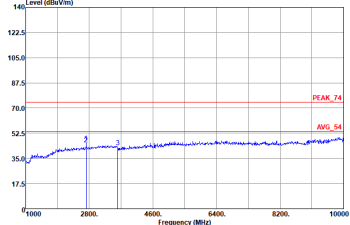
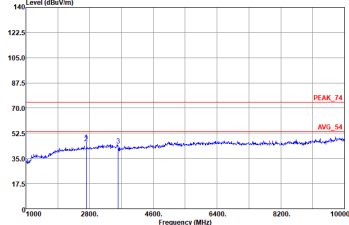
LoRa	Harmonic @ 3m																																																																																																	
ANT	FSK 50Kbps FHSS 50Kbps CH65 915 MHz																																																																																																	
	Horizontal	Vertical																																																																																																
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></th><th>Freq</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</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></tr><tr><td>1</td><td>2745.00</td><td>45.72</td><td>-28.28</td><td>74.00</td><td>62.70</td><td>32.25</td><td>8.62 57.85 100 166 Peak</td></tr><tr><td>2</td><td>2745.00</td><td>45.33</td><td>-8.67</td><td>54.00</td><td>62.31</td><td>32.25</td><td>8.62 57.85 100 166 Average</td></tr><tr><td>3</td><td>3660.00</td><td>43.30</td><td>-30.70</td><td>74.00</td><td>58.66</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		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	1	2745.00	45.72	-28.28	74.00	62.70	32.25	8.62 57.85 100 166 Peak	2	2745.00	45.33	-8.67	54.00	62.31	32.25	8.62 57.85 100 166 Average	3	3660.00	43.30	-30.70	74.00	58.66	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></th><th>Freq</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</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></tr><tr><td>1</td><td>2745.00</td><td>47.27</td><td>-26.73</td><td>74.00</td><td>64.25</td><td>32.25</td><td>8.62 57.85 169 203 Peak</td></tr><tr><td>2</td><td>2745.00</td><td>46.88</td><td>-7.12</td><td>54.00</td><td>63.86</td><td>32.25</td><td>8.62 57.85 169 203 Average</td></tr><tr><td>3</td><td>3660.00</td><td>45.00</td><td>-28.92</td><td>74.00</td><td>60.44</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		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	1	2745.00	47.27	-26.73	74.00	64.25	32.25	8.62 57.85 169 203 Peak	2	2745.00	46.88	-7.12	54.00	63.86	32.25	8.62 57.85 169 203 Average	3	3660.00	45.00	-28.92	74.00	60.44	33.00	9.64 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	dBuV	dB/m	dB																																																																																											
1	2745.00	45.72	-28.28	74.00	62.70	32.25	8.62 57.85 100 166 Peak																																																																																											
2	2745.00	45.33	-8.67	54.00	62.31	32.25	8.62 57.85 100 166 Average																																																																																											
3	3660.00	43.30	-30.70	74.00	58.66	33.00	9.64 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	dBuV	dB/m	dB																																																																																											
1	2745.00	47.27	-26.73	74.00	64.25	32.25	8.62 57.85 169 203 Peak																																																																																											
2	2745.00	46.88	-7.12	54.00	63.86	32.25	8.62 57.85 169 203 Average																																																																																											
3	3660.00	45.00	-28.92	74.00	60.44	33.00	9.64 58.00 --- Peak																																																																																											



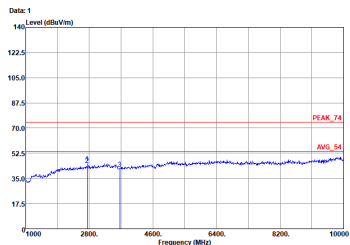
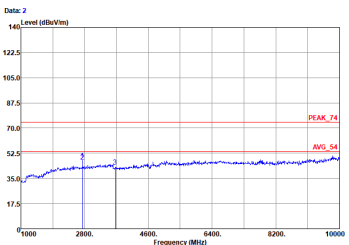
LoRa	Harmonic @ 3m																																																																										
ANT	FSK 50Kbps FHSS 50Kbps CH129 927.8 MHz																																																																										
	Horizontal																																																																										
	Vertical																																																																										
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 Factor</th><th>Loss Factor</th><th></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>dB</th><th>ca</th><th>deg</th><th></th></tr><tr><td>1</td><td>2783.48</td><td>46.87</td><td>-27.13</td><td>74.00</td><td>63.88</td><td>32.22</td><td>8.63</td><td>57.86</td><td>180</td><td>266</td><td>Peak</td></tr><tr><td>2</td><td>2783.48</td><td>46.48</td><td>-7.52</td><td>54.00</td><td>63.49</td><td>32.22</td><td>8.63</td><td>57.86</td><td>180</td><td>266</td><td>Average</td></tr><tr><td>3</td><td>3711.28</td><td>42.63</td><td>-31.37</td><td>74.00</td><td>57.92</td><td>33.18</td><td>9.61</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	dBuV	dB/m	dB	dB	ca	deg		1	2783.48	46.87	-27.13	74.00	63.88	32.22	8.63	57.86	180	266	Peak	2	2783.48	46.48	-7.52	54.00	63.49	32.22	8.63	57.86	180	266	Average	3	3711.28	42.63	-31.37	74.00	57.92	33.18	9.61	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	dBuV	dB/m	dB	dB	ca	deg																																																																	
	1	2783.48	46.87	-27.13	74.00	63.88	32.22	8.63	57.86	180	266	Peak																																																															
2	2783.48	46.48	-7.52	54.00	63.49	32.22	8.63	57.86	180	266	Average																																																																
3	3711.28	42.63	-31.37	74.00	57.92	33.18	9.61	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 Factor</th><th>Loss Factor</th><th></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>dB</th><th>ca</th><th>deg</th><th></th></tr><tr><td>1</td><td>2783.48</td><td>48.95</td><td>-25.05</td><td>74.00</td><td>65.96</td><td>32.22</td><td>8.63</td><td>57.86</td><td>179</td><td>195</td><td>Peak</td></tr><tr><td>2</td><td>2783.48</td><td>48.56</td><td>-5.44</td><td>54.00</td><td>65.57</td><td>32.22</td><td>8.63</td><td>57.86</td><td>179</td><td>195</td><td>Average</td></tr><tr><td>3</td><td>3711.28</td><td>44.61</td><td>-29.39</td><td>74.00</td><td>59.98</td><td>33.18</td><td>9.61</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	dBuV	dB/m	dB	dB	ca	deg		1	2783.48	48.95	-25.05	74.00	65.96	32.22	8.63	57.86	179	195	Peak	2	2783.48	48.56	-5.44	54.00	65.57	32.22	8.63	57.86	179	195	Average	3	3711.28	44.61	-29.39	74.00	59.98	33.18	9.61	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	dBuV	dB/m	dB	dB	ca	deg																																																																		
1	2783.48	48.95	-25.05	74.00	65.96	32.22	8.63	57.86	179	195	Peak																																																																
2	2783.48	48.56	-5.44	54.00	65.57	32.22	8.63	57.86	179	195	Average																																																																
3	3711.28	44.61	-29.39	74.00	59.98	33.18	9.61	58.00	---	---	Peak																																																																



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

LoRa	Harmonic @ 3m																																																																	
ANT	FSK 150Kbps FHSS 150Kbps CH01 902.4 MHz																																																																	
	Horizontal											Vertical																																																						
Peak	Date: 1  <table><thead><tr><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>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2787.28</td><td>46.28</td><td>-27.89</td><td>74.00</td><td>63.15</td><td>32.28</td><td>8.61</td><td>57.84</td><td>100</td><td>92 Peak</td></tr><tr><td>2</td><td>2787.28</td><td>44.93</td><td>-9.07</td><td>54.00</td><td>61.88</td><td>32.28</td><td>8.61</td><td>57.84</td><td>100</td><td>92 Average</td></tr><tr><td>3</td><td>3689.68</td><td>42.75</td><td>-31.25</td><td>74.00</td><td>58.18</td><td>32.90</td><td>9.67</td><td>58.00</td><td>---</td><td>---</td><td>Peak</td></tr></tbody></table>												Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg		1	2787.28	46.28	-27.89	74.00	63.15	32.28	8.61	57.84	100	92 Peak	2	2787.28	44.93	-9.07	54.00	61.88	32.28	8.61	57.84	100	92 Average	3	3689.68	42.75	-31.25	74.00	58.18	32.90	9.67	58.00	---	---	Peak
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																								
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg																																																									
	1	2787.28	46.28	-27.89	74.00	63.15	32.28	8.61	57.84	100	92 Peak																																																							
	2	2787.28	44.93	-9.07	54.00	61.88	32.28	8.61	57.84	100	92 Average																																																							
3	3689.68	42.75	-31.25	74.00	58.18	32.90	9.67	58.00	---	---	Peak																																																							
	Date: 2  <table><thead><tr><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>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2787.28</td><td>46.89</td><td>-27.11</td><td>74.00</td><td>63.84</td><td>32.28</td><td>8.61</td><td>57.84</td><td>136</td><td>216 Peak</td></tr><tr><td>2</td><td>2787.28</td><td>45.62</td><td>-8.38</td><td>54.00</td><td>62.57</td><td>32.28</td><td>8.61</td><td>57.84</td><td>136</td><td>216 Average</td></tr><tr><td>3</td><td>3689.68</td><td>44.83</td><td>-29.97</td><td>74.00</td><td>59.46</td><td>32.90</td><td>9.67</td><td>58.00</td><td>---</td><td>---</td><td>Peak</td></tr></tbody></table>												Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg		1	2787.28	46.89	-27.11	74.00	63.84	32.28	8.61	57.84	136	216 Peak	2	2787.28	45.62	-8.38	54.00	62.57	32.28	8.61	57.84	136	216 Average	3	3689.68	44.83	-29.97	74.00	59.46	32.90	9.67	58.00	---	---	Peak
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																									
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg																																																										
1	2787.28	46.89	-27.11	74.00	63.84	32.28	8.61	57.84	136	216 Peak																																																								
2	2787.28	45.62	-8.38	54.00	62.57	32.28	8.61	57.84	136	216 Average																																																								
3	3689.68	44.83	-29.97	74.00	59.46	32.90	9.67	58.00	---	---	Peak																																																							



LoRa	Harmonic @ 3m																																																																																																									
ANT	FSK 150Kbps FHSS 150Kbps CH33 915.2 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>Factor</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>2745.68</td><td>45.68</td><td>-28.40</td><td>74.00</td><td>62.58</td><td>32.25</td><td>8.62 57.85 100 244 Peak</td></tr><tr><td>2</td><td>2745.68</td><td>44.33</td><td>-9.67</td><td>54.00</td><td>61.31</td><td>32.25</td><td>8.62 57.85 100 244 Average</td></tr><tr><td>3</td><td>3660.00</td><td>41.79</td><td>-32.21</td><td>74.00</td><td>57.15</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		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	deg	1	2745.68	45.68	-28.40	74.00	62.58	32.25	8.62 57.85 100 244 Peak	2	2745.68	44.33	-9.67	54.00	61.31	32.25	8.62 57.85 100 244 Average	3	3660.00	41.79	-32.21	74.00	57.15	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>Factor</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>2745.68</td><td>47.93</td><td>-26.07</td><td>74.00</td><td>64.91</td><td>32.25</td><td>8.62 57.85 190 192 Peak</td></tr><tr><td>2</td><td>2745.68</td><td>46.66</td><td>-7.34</td><td>54.00</td><td>63.64</td><td>32.25</td><td>8.62 57.85 190 192 Average</td></tr><tr><td>3</td><td>3660.00</td><td>43.41</td><td>-30.59</td><td>74.00</td><td>58.77</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		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	deg	1	2745.68	47.93	-26.07	74.00	64.91	32.25	8.62 57.85 190 192 Peak	2	2745.68	46.66	-7.34	54.00	63.64	32.25	8.62 57.85 190 192 Average	3	3660.00	43.41	-30.59	74.00	58.77	33.00	9.64 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	dBuV	dB/m	dB	deg																																																																																																		
1	2745.68	45.68	-28.40	74.00	62.58	32.25	8.62 57.85 100 244 Peak																																																																																																			
2	2745.68	44.33	-9.67	54.00	61.31	32.25	8.62 57.85 100 244 Average																																																																																																			
3	3660.00	41.79	-32.21	74.00	57.15	33.00	9.64 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	dBuV	dB/m	dB	deg																																																																																																			
1	2745.68	47.93	-26.07	74.00	64.91	32.25	8.62 57.85 190 192 Peak																																																																																																			
2	2745.68	46.66	-7.34	54.00	63.64	32.25	8.62 57.85 190 192 Average																																																																																																			
3	3660.00	43.41	-30.59	74.00	58.77	33.00	9.64 58.00 --- --- Peak																																																																																																			



LoRa	Harmonic @ 3m											
ANT	FSK 150Kbps FHSS 150Kbps CH64 927.6 MHz											
	Horizontal											Vertical
Peak	Date: 1 Level (dBuV/m) </											



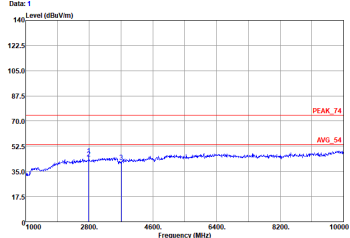
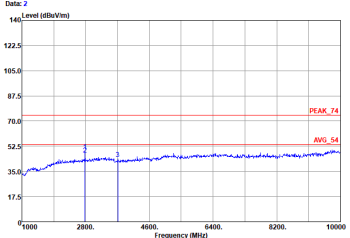
SSFSFSK 250Kbps FHSS 250Kbps (Harmonic @ 3m)

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



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

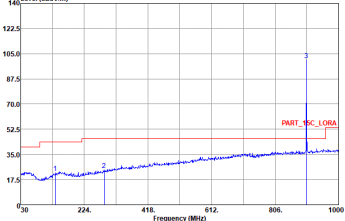
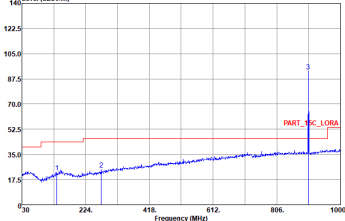


LoRa	Harmonic @ 3m																																																																																																											
ANT	FSK 250Kbps FHSS 250Kbps CH51 927.5 MHz																																																																																																											
	Horizontal						Vertical																																																																																																					
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>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></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>dB</th><th></th></tr><tr><td>1</td><td>2782.58</td><td>46.43</td><td>-27.57</td><td>74.00</td><td>63.44</td><td>32.22</td><td>8.63 57.86 102 37 Peak</td></tr><tr><td>2</td><td>2782.58</td><td>44.28</td><td>-9.80</td><td>54.00</td><td>61.21</td><td>32.22</td><td>8.63 57.86 102 37 Average</td></tr><tr><td>3</td><td>3710.00</td><td>41.59</td><td>-32.41</td><td>74.00</td><td>56.88</td><td>33.10</td><td>9.61 58.00 --- --- 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	dB/m	dB	dB		1	2782.58	46.43	-27.57	74.00	63.44	32.22	8.63 57.86 102 37 Peak	2	2782.58	44.28	-9.80	54.00	61.21	32.22	8.63 57.86 102 37 Average	3	3710.00	41.59	-32.41	74.00	56.88	33.10	9.61 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 Factor</th><th>Loss Factor</th><th></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>dB</th><th></th></tr><tr><td>1</td><td>2782.88</td><td>49.12</td><td>-24.88</td><td>74.00</td><td>66.13</td><td>32.22</td><td>8.63 57.86 145 353 Peak</td></tr><tr><td>2</td><td>2782.88</td><td>46.89</td><td>-7.11</td><td>54.00</td><td>63.90</td><td>32.22</td><td>8.63 57.86 145 353 Average</td></tr><tr><td>3</td><td>3710.40</td><td>43.00</td><td>-30.20</td><td>74.00</td><td>59.09</td><td>33.10</td><td>9.61 58.00 --- --- 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	dB/m	dB	dB		1	2782.88	49.12	-24.88	74.00	66.13	32.22	8.63 57.86 145 353 Peak	2	2782.88	46.89	-7.11	54.00	63.90	32.22	8.63 57.86 145 353 Average	3	3710.40	43.00	-30.20	74.00	59.09	33.10	9.61 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	dB																																																																																																					
1	2782.58	46.43	-27.57	74.00	63.44	32.22	8.63 57.86 102 37 Peak																																																																																																					
2	2782.58	44.28	-9.80	54.00	61.21	32.22	8.63 57.86 102 37 Average																																																																																																					
3	3710.00	41.59	-32.41	74.00	56.88	33.10	9.61 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	dB																																																																																																						
1	2782.88	49.12	-24.88	74.00	66.13	32.22	8.63 57.86 145 353 Peak																																																																																																					
2	2782.88	46.89	-7.11	54.00	63.90	32.22	8.63 57.86 145 353 Average																																																																																																					
3	3710.40	43.00	-30.20	74.00	59.09	33.10	9.61 58.00 --- --- Peak																																																																																																					

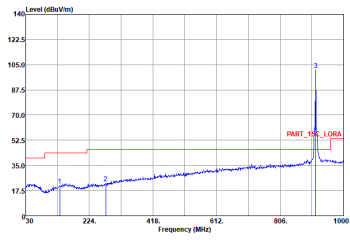
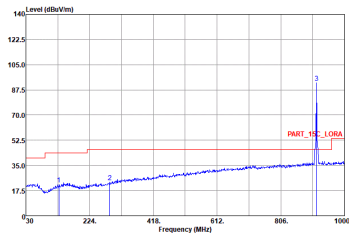


<30M-1G>

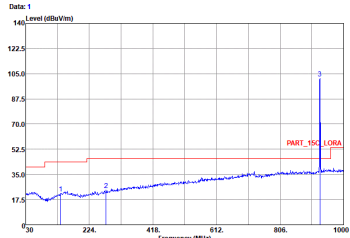
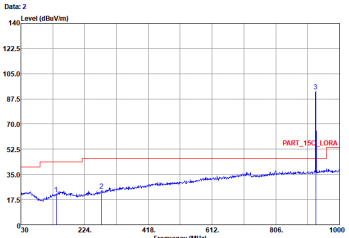
FSK 50Kbps FHSS 50Kbps (LF @ 3m)

LoRa	LF @ 3m																																																																																																													
ANT	FSK 50Kbps FHSS 50Kbps CH01 902.2 MHz																																																																																																													
	Horizontal					Vertical																																																																																																								
Peak	Date: 1  <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over 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>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>135.73</td><td>22.20</td><td>-21.30</td><td>43.50</td><td>36.81</td><td>18.04</td><td>2.25</td><td>34.90</td><td>--- Peak</td></tr><tr><td>2</td><td>284.14</td><td>24.18</td><td>-21.82</td><td>46.00</td><td>36.83</td><td>18.93</td><td>3.15</td><td>34.75</td><td>--- Peak</td></tr><tr><td>3</td><td>902.20</td><td>100.80</td><td>---</td><td>---</td><td>101.24</td><td>29.14</td><td>4.42</td><td>34.00</td><td>--- Peak</td></tr></tbody></table>						Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg		1	135.73	22.20	-21.30	43.50	36.81	18.04	2.25	34.90	--- Peak	2	284.14	24.18	-21.82	46.00	36.83	18.93	3.15	34.75	--- Peak	3	902.20	100.80	---	---	101.24	29.14	4.42	34.00	--- Peak	Date: 2  <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over 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>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>136.70</td><td>22.75</td><td>-20.75</td><td>43.50</td><td>37.28</td><td>18.12</td><td>2.25</td><td>34.90</td><td>--- Peak</td></tr><tr><td>2</td><td>271.53</td><td>24.40</td><td>-21.60</td><td>46.00</td><td>37.57</td><td>18.49</td><td>3.10</td><td>34.76</td><td>--- Peak</td></tr><tr><td>3</td><td>902.20</td><td>92.77</td><td>---</td><td>---</td><td>93.21</td><td>29.14</td><td>4.42</td><td>34.00</td><td>--- Peak</td></tr></tbody></table>						Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg		1	136.70	22.75	-20.75	43.50	37.28	18.12	2.25	34.90	--- Peak	2	271.53	24.40	-21.60	46.00	37.57	18.49	3.10	34.76	--- Peak	3	902.20	92.77	---	---	93.21	29.14	4.42	34.00	--- Peak
		Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																				
		MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg																																																																																																					
	1	135.73	22.20	-21.30	43.50	36.81	18.04	2.25	34.90	--- Peak																																																																																																				
	2	284.14	24.18	-21.82	46.00	36.83	18.93	3.15	34.75	--- Peak																																																																																																				
3	902.20	100.80	---	---	101.24	29.14	4.42	34.00	--- Peak																																																																																																					
	Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																					
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg																																																																																																						
1	136.70	22.75	-20.75	43.50	37.28	18.12	2.25	34.90	--- Peak																																																																																																					
2	271.53	24.40	-21.60	46.00	37.57	18.49	3.10	34.76	--- Peak																																																																																																					
3	902.20	92.77	---	---	93.21	29.14	4.42	34.00	--- Peak																																																																																																					



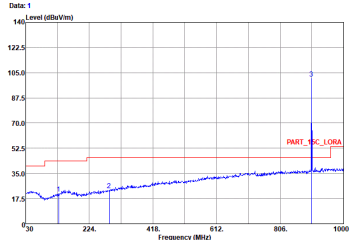
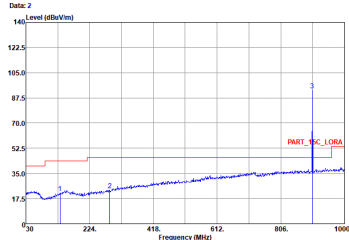
LoRa	LF @ 3m																																																																																																																						
ANT	FSK 50Kbps FHSS 50Kbps CH65 915 MHz																																																																																																																						
	Horizontal Vertical																																																																																																																						
Peak	<table><tr><th></th><th>MHz</th><th>dBuV/m</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></th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th></tr><tr><td>1</td><td>133.790</td><td>20.99</td><td>-22.51</td><td>43.50</td><td>35.76</td><td>17.90</td><td>2.23</td><td>34.90</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>274.440</td><td>22.71</td><td>-23.29</td><td>46.00</td><td>35.80</td><td>18.55</td><td>3.11</td><td>34.75</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>915.000</td><td>101.35</td><td>---</td><td>---</td><td>101.56</td><td>29.34</td><td>4.45</td><td>34.00</td><td>---</td><td>---</td><td>Peak</td></tr></table> <table><tr><th></th><th>MHz</th><th>dBuV/m</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></th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th></tr><tr><td>1</td><td>130.880</td><td>21.95</td><td>-21.55</td><td>43.50</td><td>36.90</td><td>17.73</td><td>2.22</td><td>34.90</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>285.110</td><td>23.23</td><td>-22.77</td><td>46.00</td><td>35.91</td><td>18.90</td><td>3.15</td><td>34.73</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>915.000</td><td>92.25</td><td>---</td><td>---</td><td>92.46</td><td>29.34</td><td>4.45</td><td>34.00</td><td>---</td><td>---</td><td>Peak</td></tr></table>												MHz	dBuV/m	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark		Level	Limit	Line	Level Factor	Loss Factor				1	133.790	20.99	-22.51	43.50	35.76	17.90	2.23	34.90	---	---	Peak	2	274.440	22.71	-23.29	46.00	35.80	18.55	3.11	34.75	---	---	Peak	3	915.000	101.35	---	---	101.56	29.34	4.45	34.00	---	---	Peak		MHz	dBuV/m	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark		Level	Limit	Line	Level Factor	Loss Factor				1	130.880	21.95	-21.55	43.50	36.90	17.73	2.22	34.90	---	---	Peak	2	285.110	23.23	-22.77	46.00	35.91	18.90	3.15	34.73	---	---	Peak	3	915.000	92.25	---	---	92.46	29.34	4.45	34.00	---	---	Peak
	MHz	dBuV/m	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																															
	Level	Limit	Line	Level Factor	Loss Factor																																																																																																																		
1	133.790	20.99	-22.51	43.50	35.76	17.90	2.23	34.90	---	---	Peak																																																																																																												
2	274.440	22.71	-23.29	46.00	35.80	18.55	3.11	34.75	---	---	Peak																																																																																																												
3	915.000	101.35	---	---	101.56	29.34	4.45	34.00	---	---	Peak																																																																																																												
	MHz	dBuV/m	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																															
	Level	Limit	Line	Level Factor	Loss Factor																																																																																																																		
1	130.880	21.95	-21.55	43.50	36.90	17.73	2.22	34.90	---	---	Peak																																																																																																												
2	285.110	23.23	-22.77	46.00	35.91	18.90	3.15	34.73	---	---	Peak																																																																																																												
3	915.000	92.25	---	---	92.46	29.34	4.45	34.00	---	---	Peak																																																																																																												



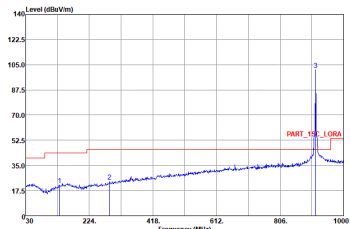
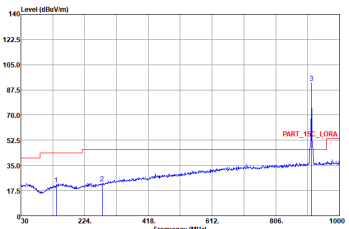
LoRa	LF @ 3m																																																																																																													
ANT	FSK 50Kbps FHSS 50Kbps CH129 927.8 MHz																																																																																																													
	Horizontal	Vertical																																																																																																												
Peak	Date: 1 <table><tr><th></th><th>Freq</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></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>136.70</td><td>21.97</td><td>-21.53</td><td>43.50</td><td>36.50</td><td>18.12</td><td>2.25</td><td>34.90</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>275.41</td><td>24.10</td><td>-21.90</td><td>46.00</td><td>37.12</td><td>18.62</td><td>3.11</td><td>34.75</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>927.00</td><td>101.74</td><td>---</td><td>---</td><td>101.50</td><td>29.77</td><td>4.47</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/m	dB	cm	deg	1	136.70	21.97	-21.53	43.50	36.50	18.12	2.25	34.90	---	---	Peak	2	275.41	24.10	-21.90	46.00	37.12	18.62	3.11	34.75	---	---	Peak	3	927.00	101.74	---	---	101.50	29.77	4.47	34.00	---	---	Peak	Date: 2 <table><tr><th></th><th>Freq</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></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>137.67</td><td>21.28</td><td>-22.22</td><td>43.50</td><td>35.72</td><td>18.20</td><td>2.26</td><td>34.90</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>275.41</td><td>23.72</td><td>-22.28</td><td>46.00</td><td>36.74</td><td>18.62</td><td>3.11</td><td>34.75</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>927.00</td><td>92.67</td><td>---</td><td>---</td><td>92.43</td><td>29.77</td><td>4.47</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/m	dB	cm	deg	1	137.67	21.28	-22.22	43.50	35.72	18.20	2.26	34.90	---	---	Peak	2	275.41	23.72	-22.28	46.00	36.74	18.62	3.11	34.75	---	---	Peak	3	927.00	92.67	---	---	92.43	29.77	4.47	34.00	---	---	Peak
	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																						
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	deg																																																																																																						
1	136.70	21.97	-21.53	43.50	36.50	18.12	2.25	34.90	---	---	Peak																																																																																																			
2	275.41	24.10	-21.90	46.00	37.12	18.62	3.11	34.75	---	---	Peak																																																																																																			
3	927.00	101.74	---	---	101.50	29.77	4.47	34.00	---	---	Peak																																																																																																			
	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																						
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	deg																																																																																																						
1	137.67	21.28	-22.22	43.50	35.72	18.20	2.26	34.90	---	---	Peak																																																																																																			
2	275.41	23.72	-22.28	46.00	36.74	18.62	3.11	34.75	---	---	Peak																																																																																																			
3	927.00	92.67	---	---	92.43	29.77	4.47	34.00	---	---	Peak																																																																																																			



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

LoRa	LF @ 3m																																																																
ANT	FSK 150Kbps FHSS 150Kbps CH01 902.4 MHz																																																																
	Horizontal																																																																
Peak	Date: 1  <table><tr><th></th><th>Freq</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></th><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>138.88</td><td>21.22</td><td>-22.28</td><td>43.58</td><td>36.26</td><td>17.64</td><td>2.22</td><td>34.90</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>284.14</td><td>23.33</td><td>-22.67</td><td>46.08</td><td>35.98</td><td>18.93</td><td>3.15</td><td>34.73</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>902.48</td><td>100.82</td><td>---</td><td>---</td><td>101.26</td><td>29.14</td><td>4.42</td><td>34.88</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	dB/m	dB	cm	deg	1	138.88	21.22	-22.28	43.58	36.26	17.64	2.22	34.90	---	---	Peak	2	284.14	23.33	-22.67	46.08	35.98	18.93	3.15	34.73	---	---	Peak	3	902.48	100.82	---	---	101.26	29.14	4.42	34.88	---	---	Peak
		Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																								
		MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg																																																								
	1	138.88	21.22	-22.28	43.58	36.26	17.64	2.22	34.90	---	---	Peak																																																					
	2	284.14	23.33	-22.67	46.08	35.98	18.93	3.15	34.73	---	---	Peak																																																					
3	902.48	100.82	---	---	101.26	29.14	4.42	34.88	---	---	Peak																																																						
	Vertical																																																																
	Date: 2  <table><tr><th></th><th>Freq</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></th><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>133.79</td><td>21.48</td><td>-22.18</td><td>43.58</td><td>36.19</td><td>17.88</td><td>2.23</td><td>34.98</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>285.11</td><td>23.24</td><td>-22.75</td><td>46.08</td><td>35.86</td><td>18.96</td><td>3.15</td><td>34.73</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>902.48</td><td>92.78</td><td>---</td><td>---</td><td>93.22</td><td>29.14</td><td>4.42</td><td>34.88</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	dB/m	dB	cm	deg	1	133.79	21.48	-22.18	43.58	36.19	17.88	2.23	34.98	---	---	Peak	2	285.11	23.24	-22.75	46.08	35.86	18.96	3.15	34.73	---	---	Peak	3	902.48	92.78	---	---	93.22	29.14	4.42	34.88	---	---	Peak
	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																									
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg																																																									
1	133.79	21.48	-22.18	43.58	36.19	17.88	2.23	34.98	---	---	Peak																																																						
2	285.11	23.24	-22.75	46.08	35.86	18.96	3.15	34.73	---	---	Peak																																																						
3	902.48	92.78	---	---	93.22	29.14	4.42	34.88	---	---	Peak																																																						



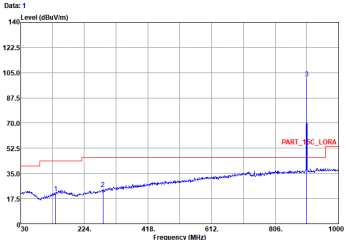
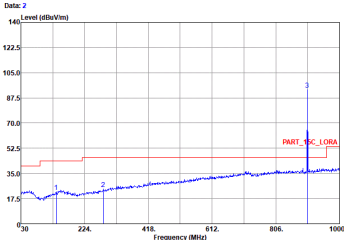
LoRa	LF @ 3m																																																																																																																														
ANT	FSK 150Kbps FHSS 150Kbps CH33 915.2 MHz																																																																																																																														
	Horizontal										Vertical																																																																																																																				
Peak																																																																																																																															
	<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>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>132.820</td><td>21.32</td><td>-22.18</td><td>43.50</td><td>36.15</td><td>17.84</td><td>2.23</td><td>34.90</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>285.110</td><td>23.81</td><td>-22.19</td><td>46.00</td><td>36.49</td><td>18.90</td><td>3.15</td><td>34.73</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>915.200</td><td>101.34</td><td>---</td><td>---</td><td>101.55</td><td>29.34</td><td>4.45</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	cm	deg		1	132.820	21.32	-22.18	43.50	36.15	17.84	2.23	34.90	---	---	Peak	2	285.110	23.81	-22.19	46.00	36.49	18.90	3.15	34.73	---	---	Peak	3	915.200	101.34	---	---	101.55	29.34	4.45	34.00	---	---	Peak	<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>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>137.670</td><td>21.75</td><td>-21.75</td><td>43.50</td><td>36.26</td><td>18.13</td><td>2.26</td><td>34.90</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>277.350</td><td>22.73</td><td>-23.27</td><td>46.00</td><td>35.71</td><td>18.65</td><td>3.12</td><td>34.75</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>915.200</td><td>92.41</td><td>---</td><td>---</td><td>92.62</td><td>29.34</td><td>4.45</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	cm	deg		1	137.670	21.75	-21.75	43.50	36.26	18.13	2.26	34.90	---	---	Peak	2	277.350	22.73	-23.27	46.00	35.71	18.65	3.12	34.75	---	---	Peak	3	915.200	92.41	---	---	92.62	29.34	4.45	34.00	---	---	Peak
		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																				
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg																																																																																																																					
1	132.820	21.32	-22.18	43.50	36.15	17.84	2.23	34.90	---	---	Peak																																																																																																																				
2	285.110	23.81	-22.19	46.00	36.49	18.90	3.15	34.73	---	---	Peak																																																																																																																				
3	915.200	101.34	---	---	101.55	29.34	4.45	34.00	---	---	Peak																																																																																																																				
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																					
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg																																																																																																																						
1	137.670	21.75	-21.75	43.50	36.26	18.13	2.26	34.90	---	---	Peak																																																																																																																				
2	277.350	22.73	-23.27	46.00	35.71	18.65	3.12	34.75	---	---	Peak																																																																																																																				
3	915.200	92.41	---	---	92.62	29.34	4.45	34.00	---	---	Peak																																																																																																																				



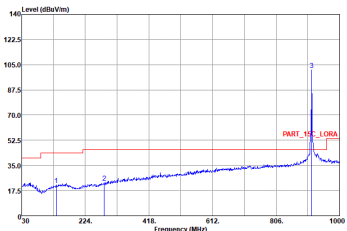
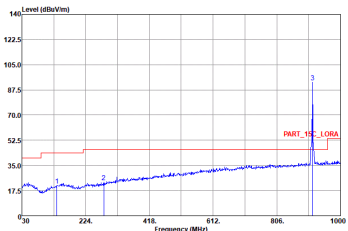
LoRa	LF @ 3m											
ANT	FSK 150Kbps FHSS 150Kbps CH64 927.6 MHz											
	Horizontal						Vertical					
Peak	Date: 1 Level (dBuV/m) </											



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

LoRa	LF @ 3m																																																																																																															
ANT	FSK 250Kbps FHSS 250Kbps CH01 902.5 MHz																																																																																																															
	Horizontal	Vertical																																																																																																														
Peak	Date: 1 <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit</th><th>Read Antenna</th><th>Cable Loss</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/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>136.79</td><td>21.56</td><td>-21.94</td><td>43.50</td><td>36.09</td><td>18.12</td><td>2.25</td><td>34.90</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>281.23</td><td>24.25</td><td>-21.75</td><td>46.00</td><td>37.02</td><td>18.83</td><td>3.14</td><td>34.74</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>902.50</td><td>100.89</td><td>---</td><td>---</td><td>101.30</td><td>29.16</td><td>4.43</td><td>34.00</td><td>---</td><td>Peak</td></tr></tbody></table>		Freq	Level	Over Limit	Limit	Read Antenna	Cable Loss	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg		1	136.79	21.56	-21.94	43.50	36.09	18.12	2.25	34.90	---	Peak	2	281.23	24.25	-21.75	46.00	37.02	18.83	3.14	34.74	---	Peak	3	902.50	100.89	---	---	101.30	29.16	4.43	34.00	---	Peak	Date: 2 <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit</th><th>Read Antenna</th><th>Cable Loss</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/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>137.67</td><td>22.30</td><td>-21.20</td><td>43.50</td><td>36.74</td><td>18.20</td><td>2.26</td><td>34.90</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>281.23</td><td>24.21</td><td>-21.75</td><td>46.00</td><td>36.90</td><td>18.83</td><td>3.14</td><td>34.74</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>902.50</td><td>93.01</td><td>---</td><td>---</td><td>93.45</td><td>29.14</td><td>4.42</td><td>34.00</td><td>---</td><td>Peak</td></tr></tbody></table>		Freq	Level	Over Limit	Limit	Read Antenna	Cable Loss	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg		1	137.67	22.30	-21.20	43.50	36.74	18.20	2.26	34.90	---	Peak	2	281.23	24.21	-21.75	46.00	36.90	18.83	3.14	34.74	---	Peak	3	902.50	93.01	---	---	93.45	29.14	4.42	34.00	---	Peak
	Freq	Level	Over Limit	Limit	Read Antenna	Cable Loss	Preamp	A/Pos	T/Pos	Remark																																																																																																						
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg																																																																																																							
1	136.79	21.56	-21.94	43.50	36.09	18.12	2.25	34.90	---	Peak																																																																																																						
2	281.23	24.25	-21.75	46.00	37.02	18.83	3.14	34.74	---	Peak																																																																																																						
3	902.50	100.89	---	---	101.30	29.16	4.43	34.00	---	Peak																																																																																																						
	Freq	Level	Over Limit	Limit	Read Antenna	Cable Loss	Preamp	A/Pos	T/Pos	Remark																																																																																																						
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg																																																																																																							
1	137.67	22.30	-21.20	43.50	36.74	18.20	2.26	34.90	---	Peak																																																																																																						
2	281.23	24.21	-21.75	46.00	36.90	18.83	3.14	34.74	---	Peak																																																																																																						
3	902.50	93.01	---	---	93.45	29.14	4.42	34.00	---	Peak																																																																																																						



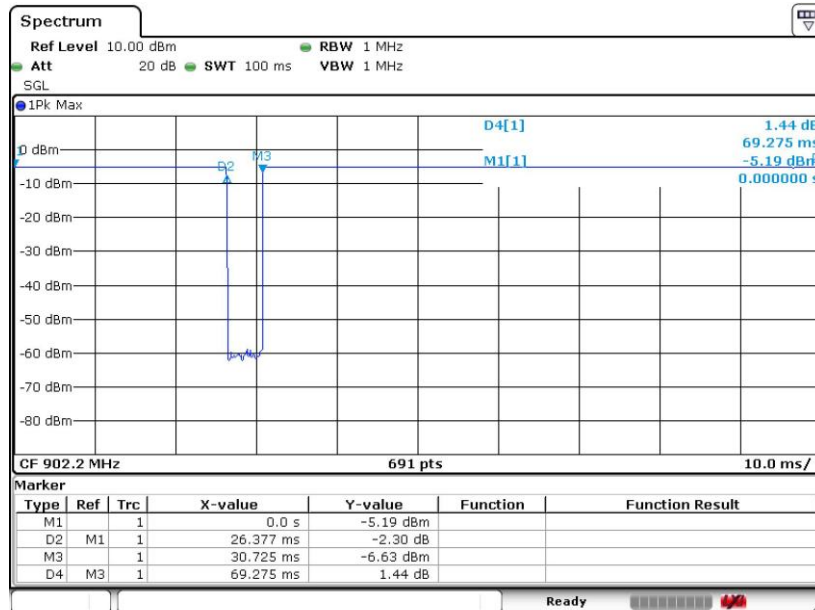
LoRa	LF @ 3m																																																																																																																								
ANT	FSK 250Kbps FHSS 250Kbps CH26 915 MHz																																																																																																																								
	Horizontal						Vertical																																																																																																																		
Peak																																																																																																																									
	<table><tr><th></th><th>Freq</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></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>135.730</td><td>21.32</td><td>-22.18</td><td>43.50</td><td>35.96</td><td>18.01</td><td>2.25</td><td>34.90</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>282.200</td><td>22.96</td><td>-23.04</td><td>46.00</td><td>35.76</td><td>18.80</td><td>3.14</td><td>34.74</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>915.000</td><td>101.40</td><td>---</td><td>---</td><td>101.61</td><td>29.34</td><td>4.45</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/m	dB	dB	cm	deg	1	135.730	21.32	-22.18	43.50	35.96	18.01	2.25	34.90	---	---	Peak	2	282.200	22.96	-23.04	46.00	35.76	18.80	3.14	34.74	---	---	Peak	3	915.000	101.40	---	---	101.61	29.34	4.45	34.00	---	---	Peak	<table><tr><th></th><th>Freq</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></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>136.700</td><td>21.11</td><td>-22.39</td><td>43.50</td><td>35.69</td><td>18.07</td><td>2.25</td><td>34.90</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>279.290</td><td>23.23</td><td>-22.77</td><td>46.00</td><td>36.13</td><td>18.71</td><td>3.13</td><td>34.74</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>915.000</td><td>92.73</td><td>---</td><td>---</td><td>92.94</td><td>29.34</td><td>4.45</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/m	dB	dB	cm	deg	1	136.700	21.11	-22.39	43.50	35.69	18.07	2.25	34.90	---	---	Peak	2	279.290	23.23	-22.77	46.00	36.13	18.71	3.13	34.74	---	---	Peak	3	915.000	92.73	---	---	92.94	29.34	4.45	34.00	---	---	Peak
		Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																																
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg																																																																																																															
1	135.730	21.32	-22.18	43.50	35.96	18.01	2.25	34.90	---	---	Peak																																																																																																														
2	282.200	22.96	-23.04	46.00	35.76	18.80	3.14	34.74	---	---	Peak																																																																																																														
3	915.000	101.40	---	---	101.61	29.34	4.45	34.00	---	---	Peak																																																																																																														
	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																																	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg																																																																																																																
1	136.700	21.11	-22.39	43.50	35.69	18.07	2.25	34.90	---	---	Peak																																																																																																														
2	279.290	23.23	-22.77	46.00	36.13	18.71	3.13	34.74	---	---	Peak																																																																																																														
3	915.000	92.73	---	---	92.94	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>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>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>137.67</td><td>23.01</td><td>-20.49</td><td>43.50</td><td>37.45</td><td>18.20</td><td>2.26</td><td>34.90</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>269.59</td><td>23.33</td><td>-22.67</td><td>46.00</td><td>36.58</td><td>18.42</td><td>3.09</td><td>34.76</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>927.50</td><td>101.72</td><td>---</td><td>---</td><td>101.51</td><td>29.74</td><td>4.47</td><td>34.00</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	137.67	23.01	-20.49	43.50	37.45	18.20	2.26	34.90	---	---	Peak	2	269.59	23.33	-22.67	46.00	36.58	18.42	3.09	34.76	---	---	Peak	3	927.50	101.72	---	---	101.51	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>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>127.00</td><td>21.50</td><td>-22.00</td><td>43.50</td><td>36.90</td><td>17.31</td><td>2.19</td><td>34.90</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>275.41</td><td>23.70</td><td>-22.30</td><td>46.00</td><td>36.72</td><td>18.62</td><td>3.11</td><td>34.75</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>927.50</td><td>92.45</td><td>---</td><td>---</td><td>92.24</td><td>29.74</td><td>4.47</td><td>34.00</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	127.00	21.50	-22.00	43.50	36.90	17.31	2.19	34.90	---	---	Peak	2	275.41	23.70	-22.30	46.00	36.72	18.62	3.11	34.75	---	---	Peak	3	927.50	92.45	---	---	92.24	29.74	4.47	34.00	---	---	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	137.67	23.01	-20.49	43.50	37.45	18.20	2.26	34.90	---	---	Peak																																																																																																																	
2	269.59	23.33	-22.67	46.00	36.58	18.42	3.09	34.76	---	---	Peak																																																																																																																	
3	927.50	101.72	---	---	101.51	29.74	4.47	34.00	---	---	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	127.00	21.50	-22.00	43.50	36.90	17.31	2.19	34.90	---	---	Peak																																																																																																																	
2	275.41	23.70	-22.30	46.00	36.72	18.62	3.11	34.75	---	---	Peak																																																																																																																	
3	927.50	92.45	---	---	92.24	29.74	4.47	34.00	---	---	Peak																																																																																																																	

Appendix D. Duty Cycle Plots

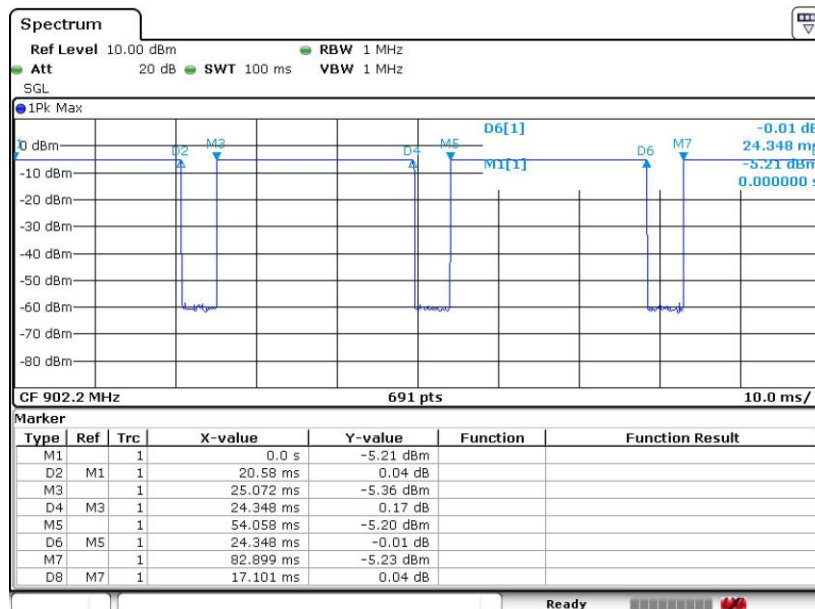
FSK(FHSS)50kbps on time Plot



Note:

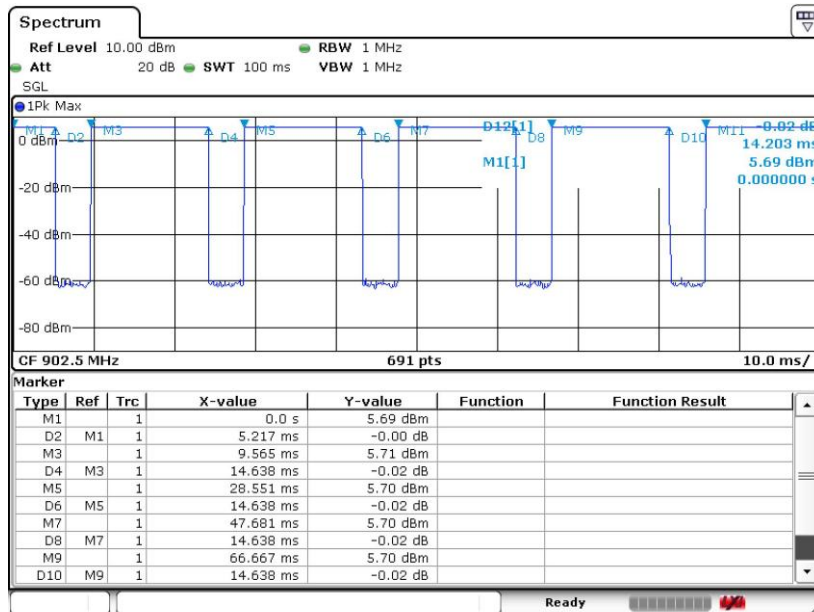
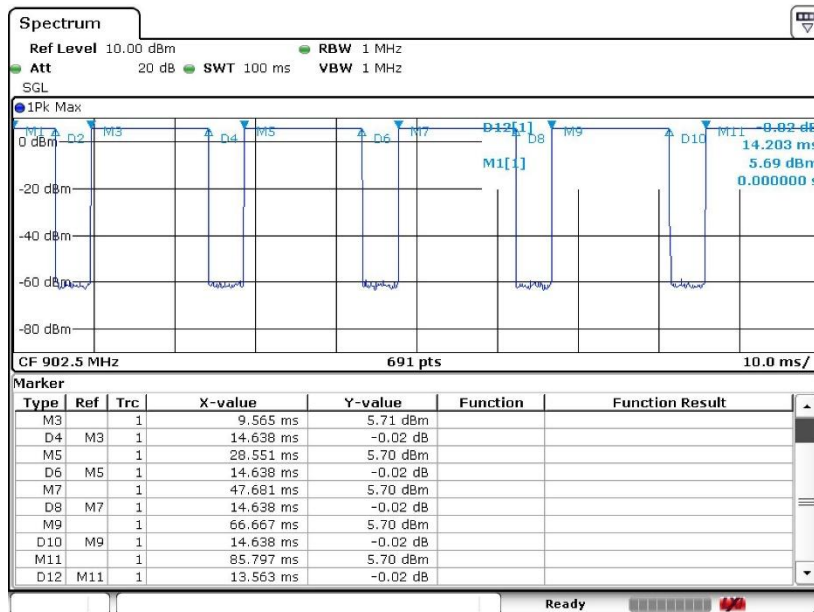
1. Duty cycle = on time/100 milliseconds = 95.65 %
2. Duty cycle correction factor = $20 \times \log(\text{Duty cycle}) = -0.39 \text{ dB}$

FSK(FHSS)150kbps on time Plot



Note:

1. Duty cycle = on time/100 milliseconds = 86.38 %
2. Duty cycle correction factor = $20 \times \log(\text{Duty cycle}) = -1.27 \text{ dB}$

FSK(FHSS)250kbps on time Plot 1

FSK(FHSS)250kbps on time Plot 2

Note:

1. Duty cycle = on time/100 milliseconds = 77.33 %
2. Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = -2.23 \text{ dB}$