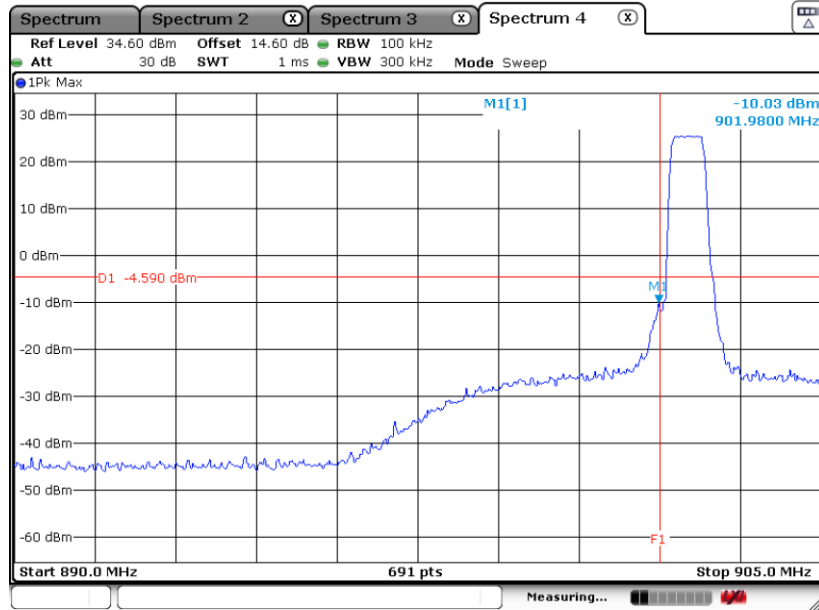


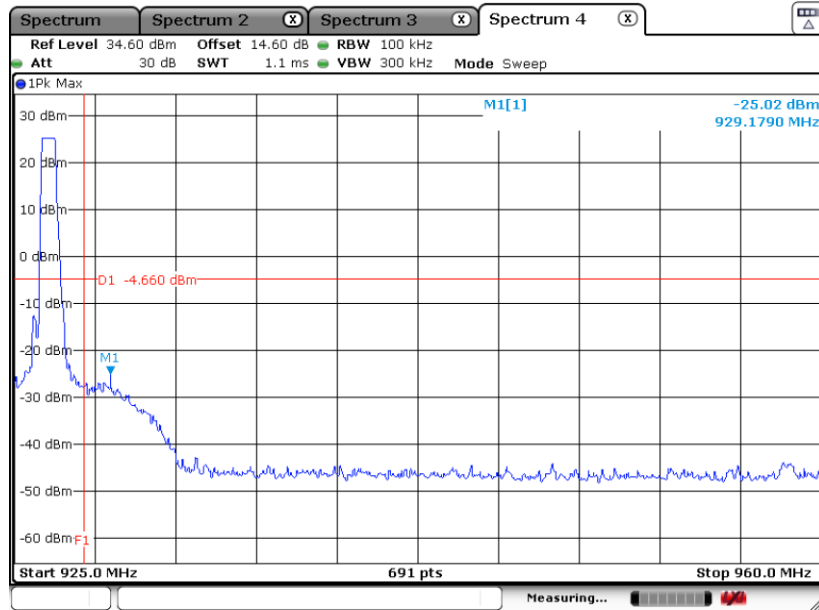


Low Band Edge Plot on 902.5 MHz – SF10



Date: 17.FEB.2022 23:04:56

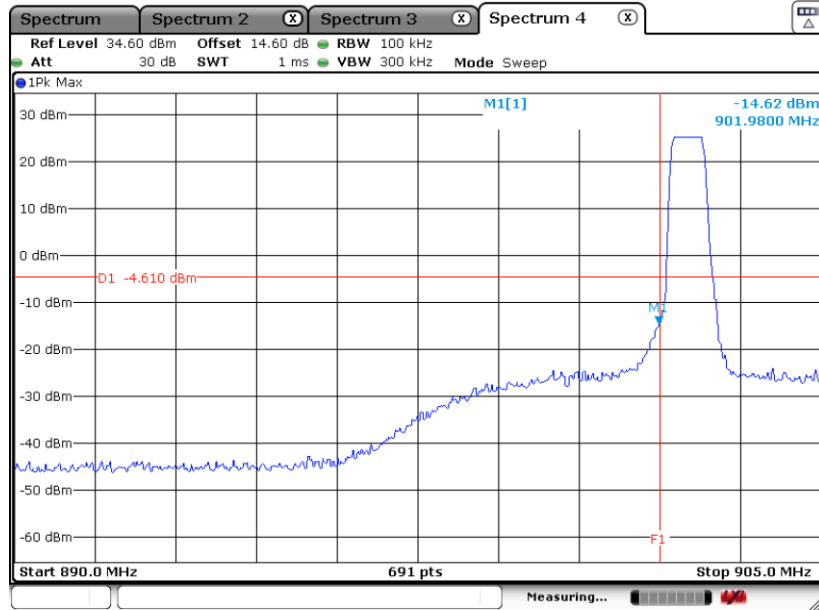
High Band Edge Plot on 926.5 MHz – SF10



Date: 17.FEB.2022 23:15:51

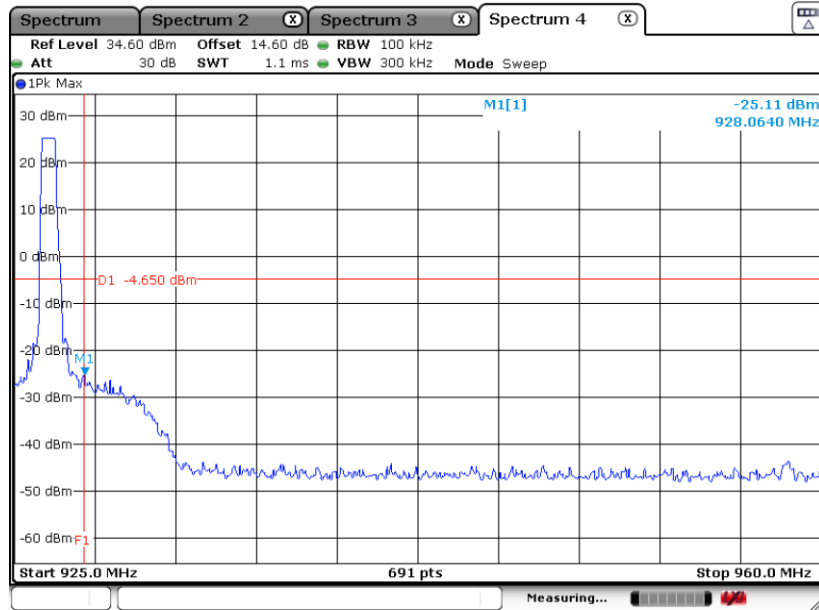


Low Band Edge Plot on 902.5 MHz – SF11



Date: 17.FEB.2022 23:44:10

High Band Edge Plot on 926.5 MHz – SF11

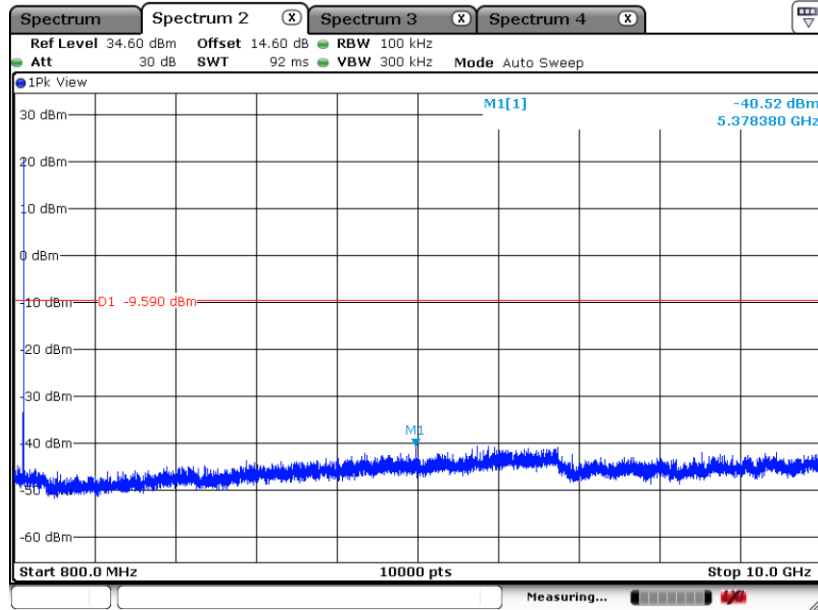
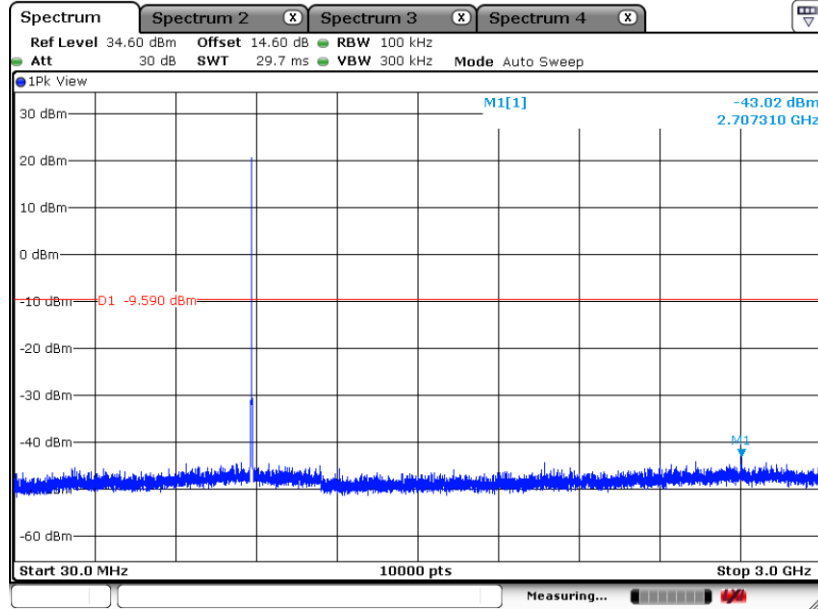


Date: 17.FEB.2022 23:56:26



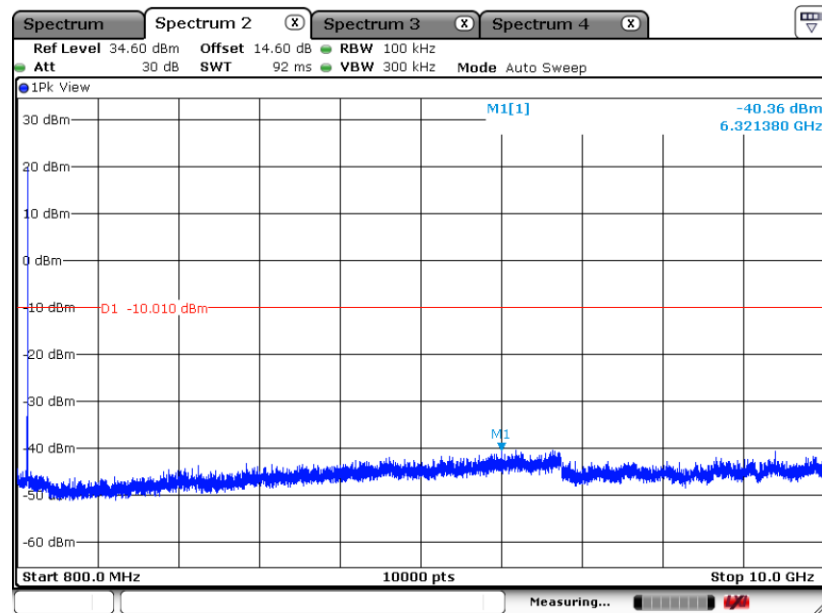
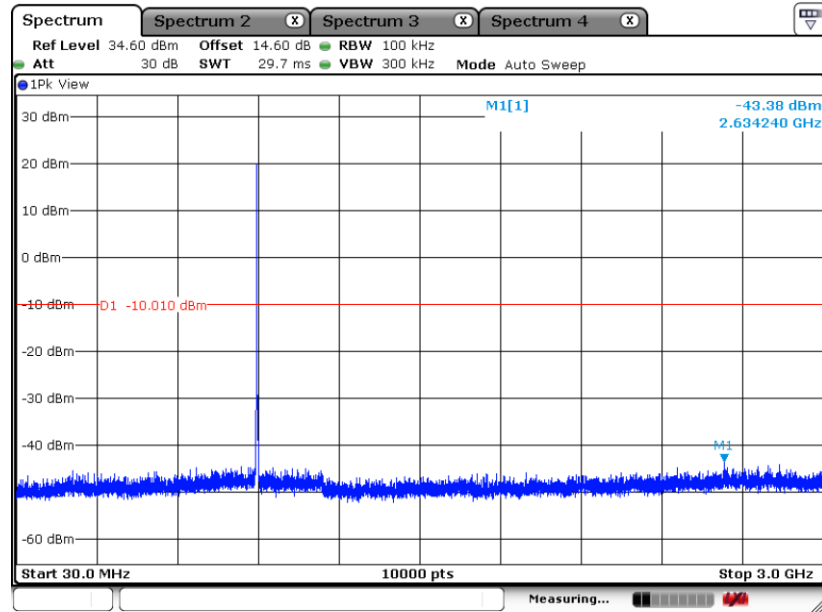
3.4.6 Test Result of Conducted Spurious Emission Plots

Conducted Spurious Emission Plot on 902.5 MHz – SF5



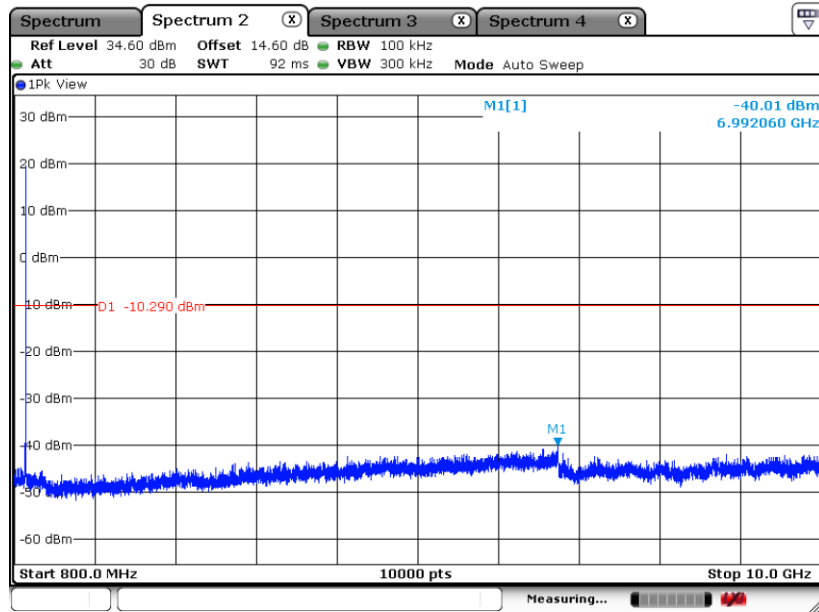
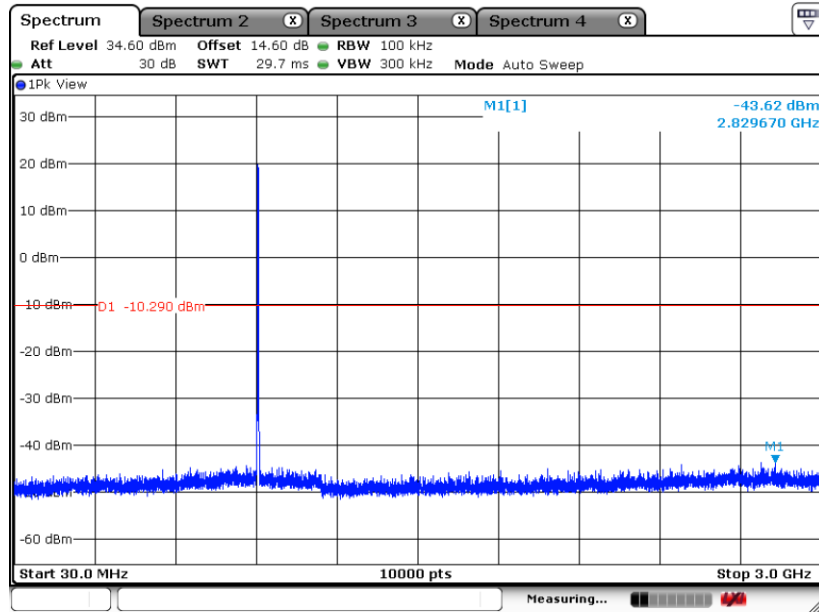


Conducted Spurious Emission Plot on 914.5 MHz – SF5



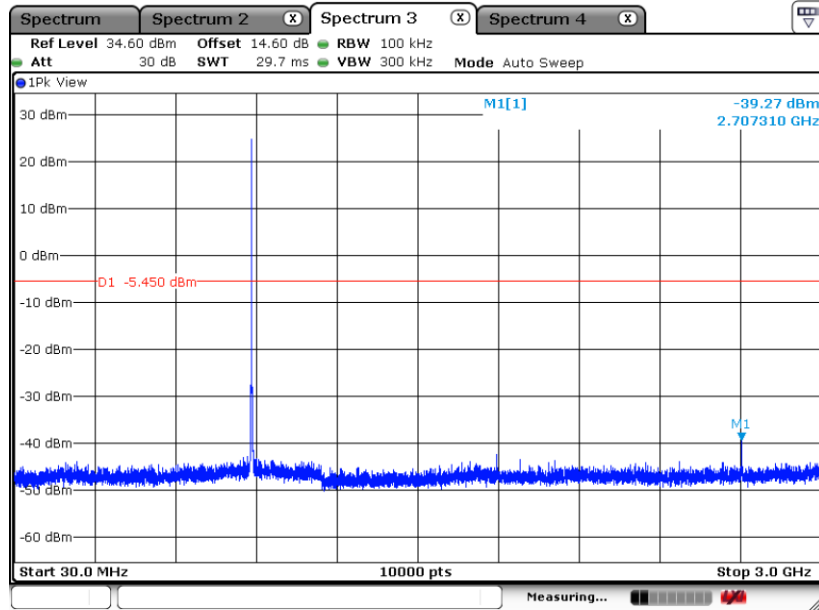


Conducted Spurious Emission Plot on 926.5 MHz – SF5

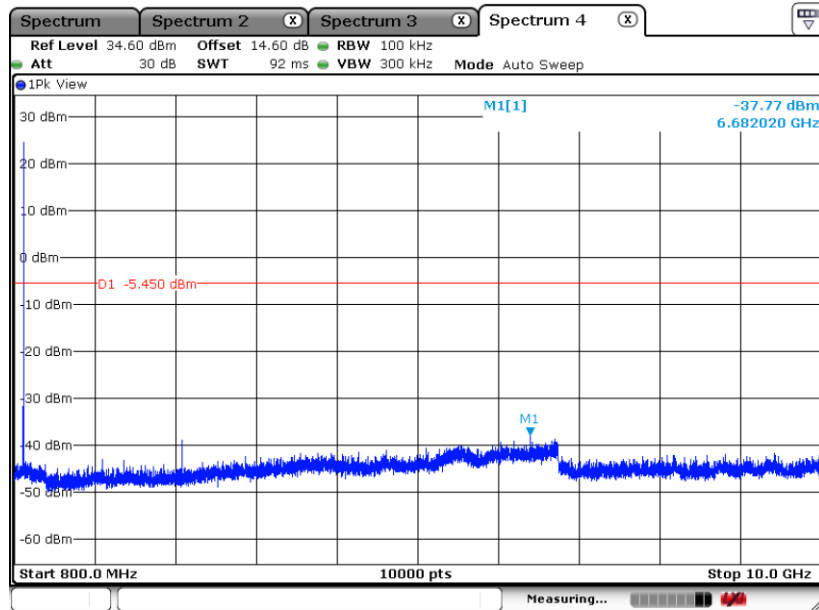




Conducted Spurious Emission Plot on 902.5 MHz – SF7



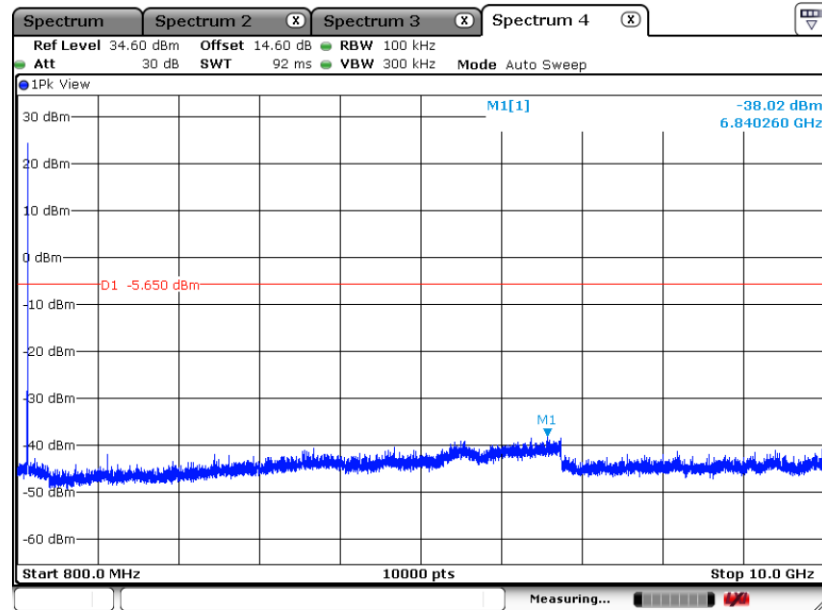
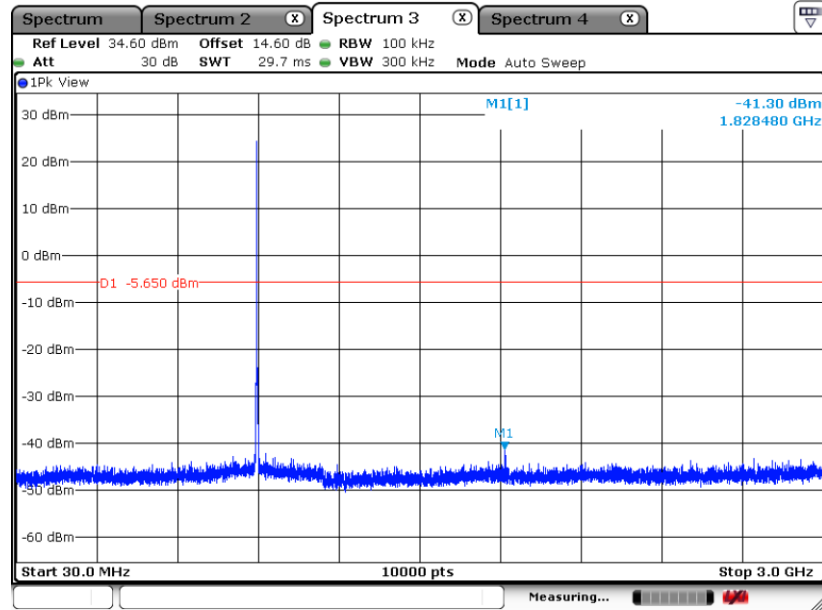
Date: 21.FEB.2022 21:38:47



Date: 21.FEB.2022 21:39:22

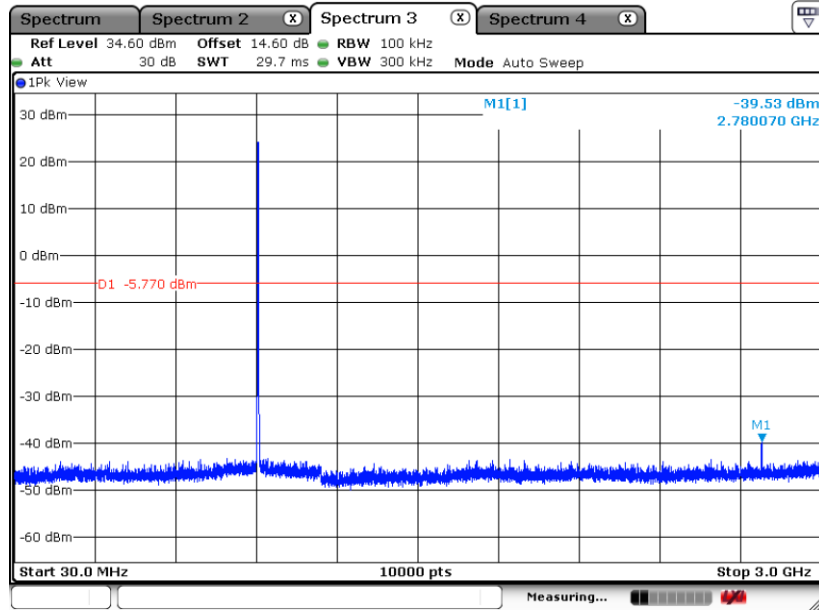


Conducted Spurious Emission Plot on 914.5 MHz – SF7

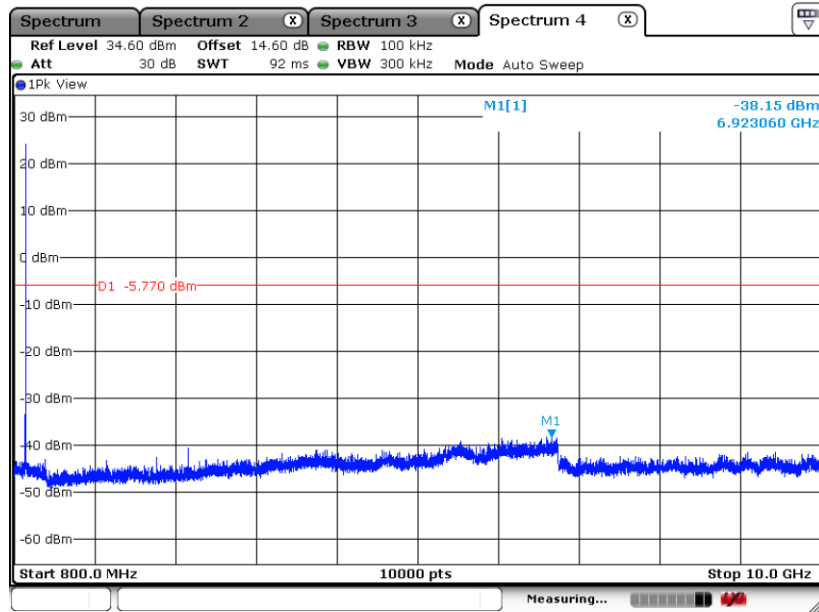




Conducted Spurious Emission Plot on 926.5 MHz – SF7



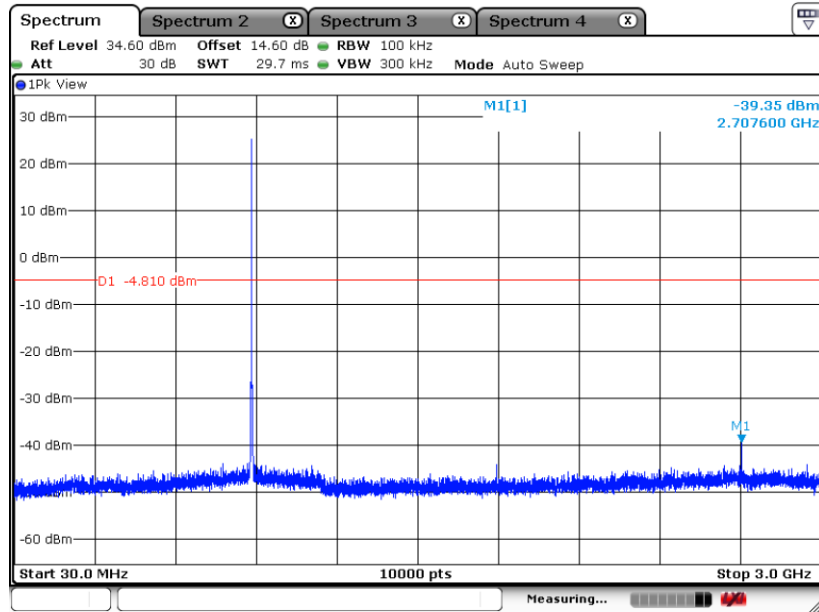
Date: 21.FEB.2022 21:48:20



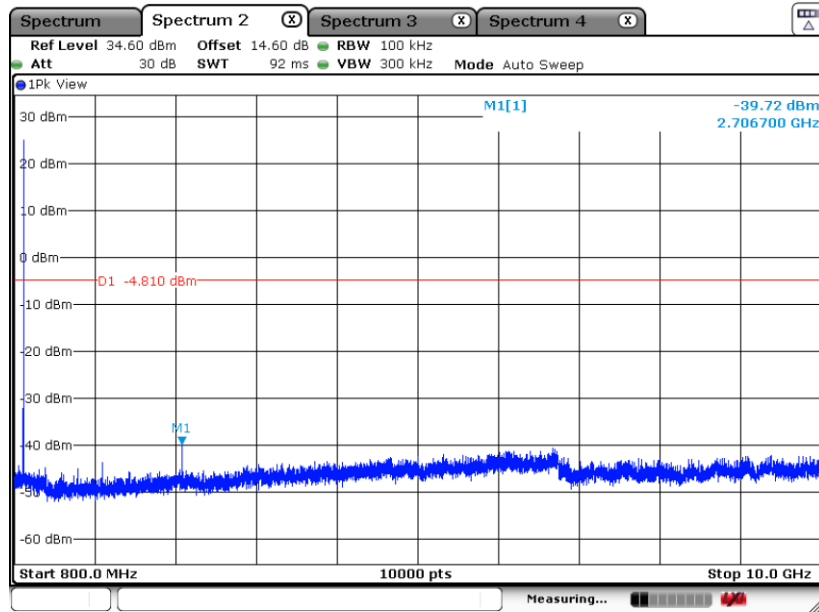
Date: 21.FEB.2022 21:49:12



Conducted Spurious Emission Plot on 902.5 MHz – SF8



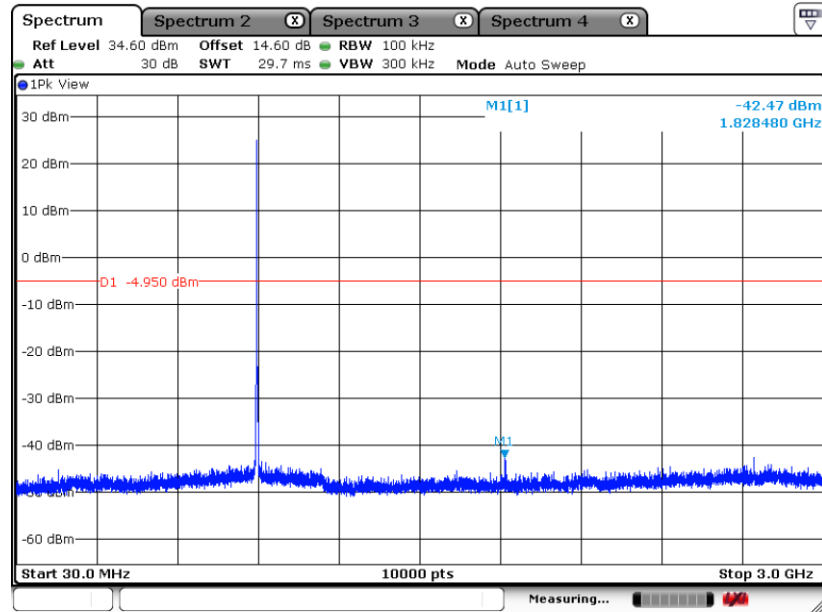
Date: 17.FEB.2022 22:24:57



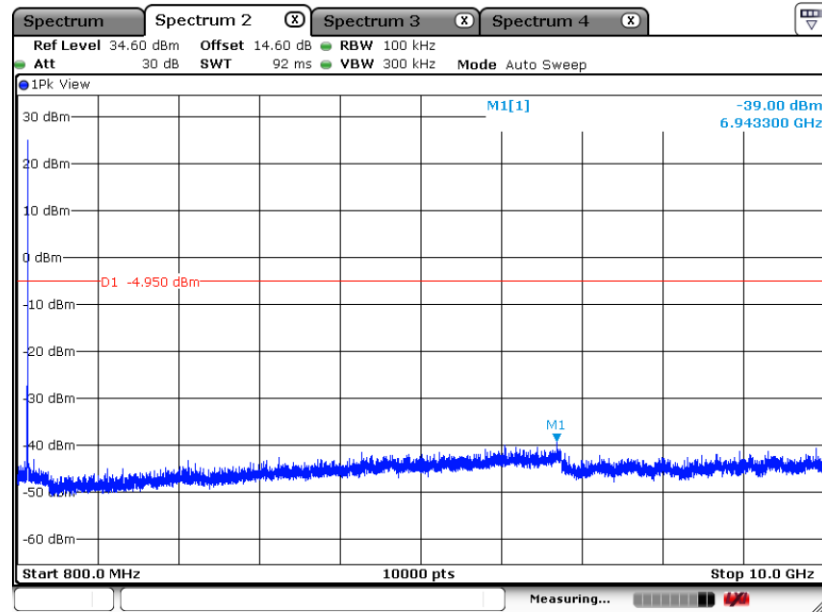
Date: 17.FEB.2022 22:28:29



Conducted Spurious Emission Plot on 914.5 MHz – SF8



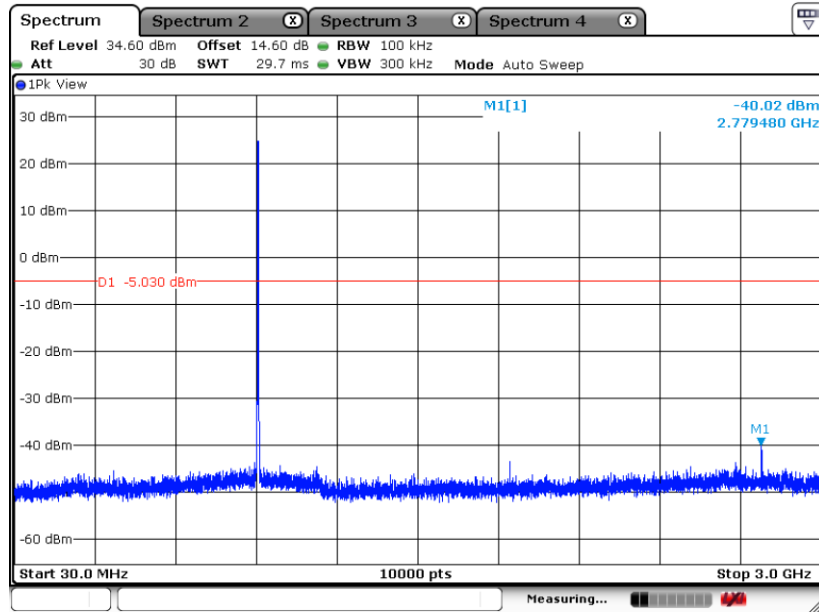
Date: 17.FEB.2022 22:20:18



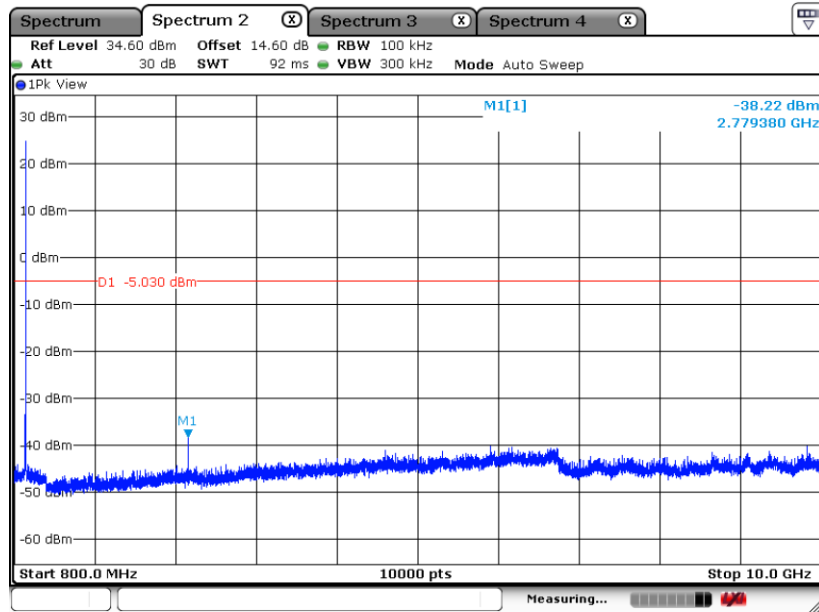
Date: 17.FEB.2022 22:21:09



Conducted Spurious Emission Plot on 926.5 MHz – SF8



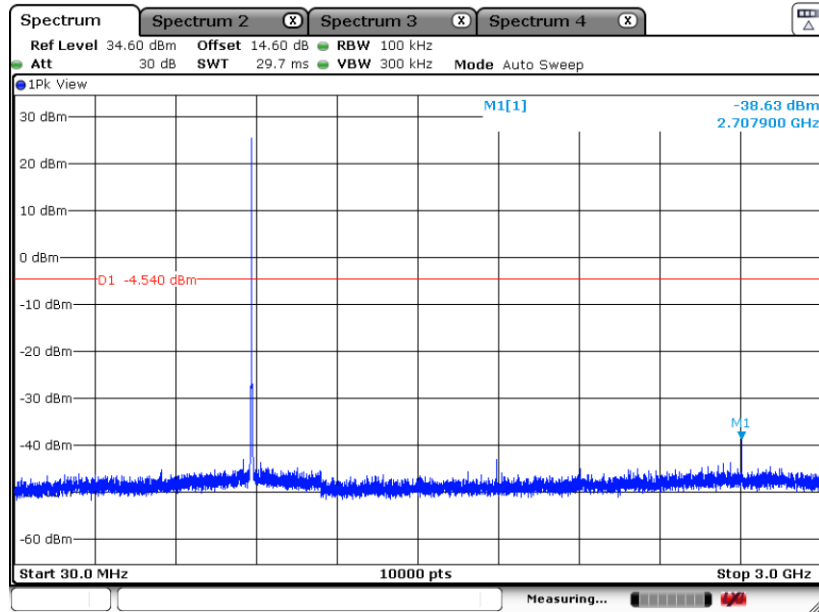
Date: 17.FEB.2022 22:15:59



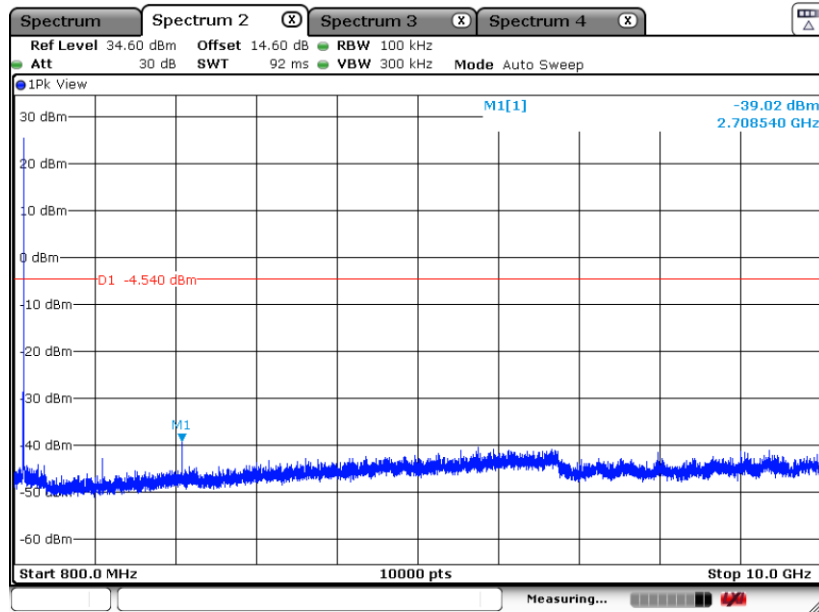
Date: 17.FEB.2022 22:16:57



Conducted Spurious Emission Plot on 902.5 MHz – SF9



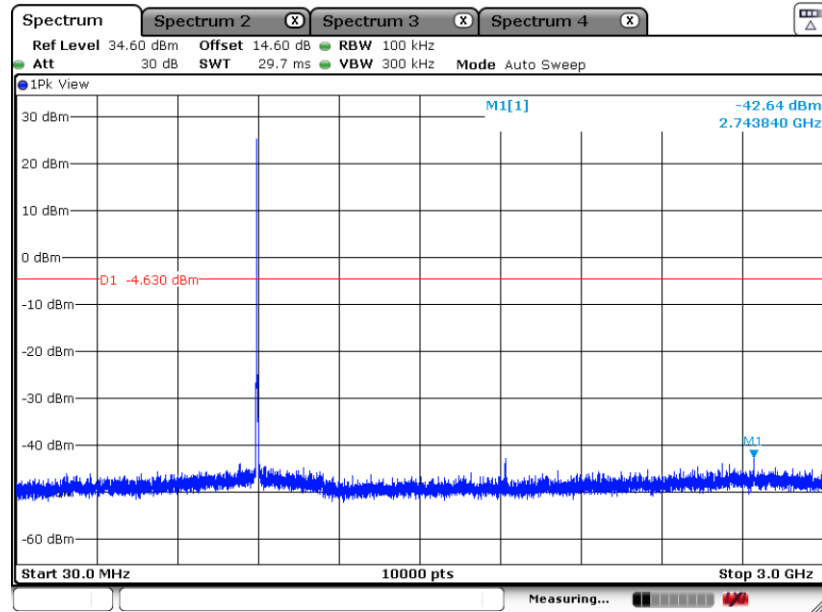
Date: 17.FEB.2022 22:53:52



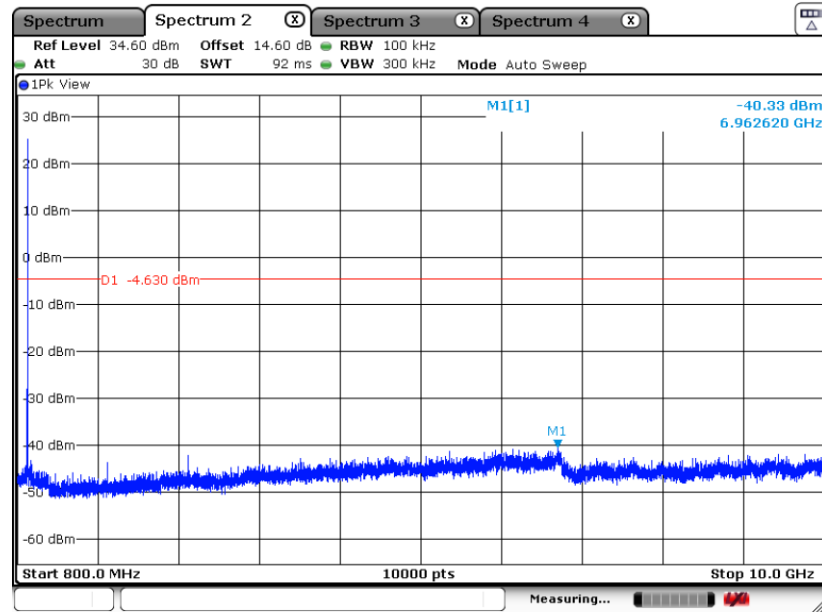
Date: 17.FEB.2022 22:54:33



Conducted Spurious Emission Plot on 914.5 MHz – SF9



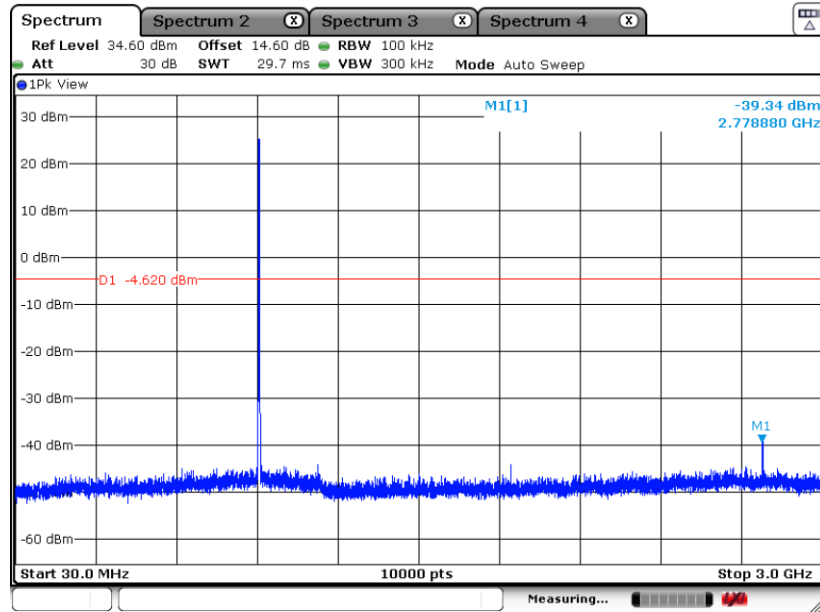
Date: 17.FEB.2022 22:52:17



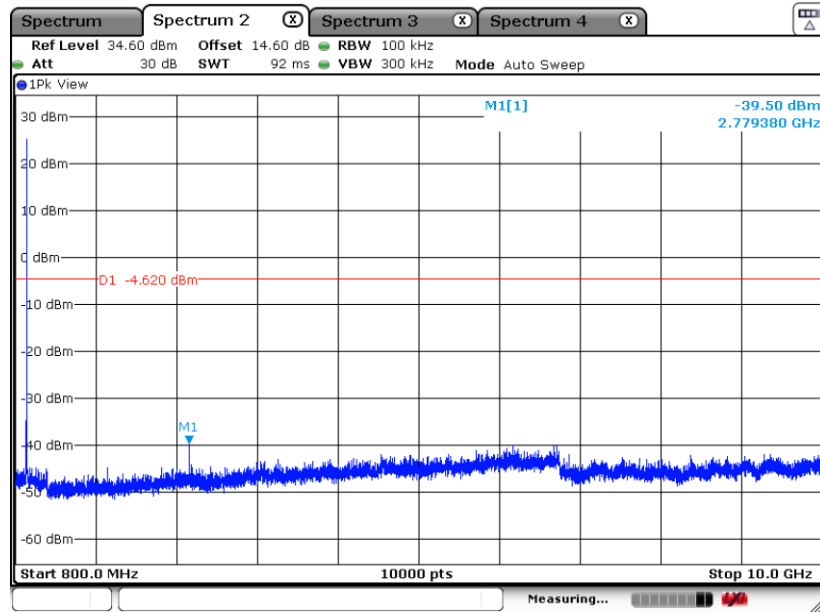
Date: 17.FEB.2022 22:52:51



Conducted Spurious Emission Plot on 926.5 MHz – SF9



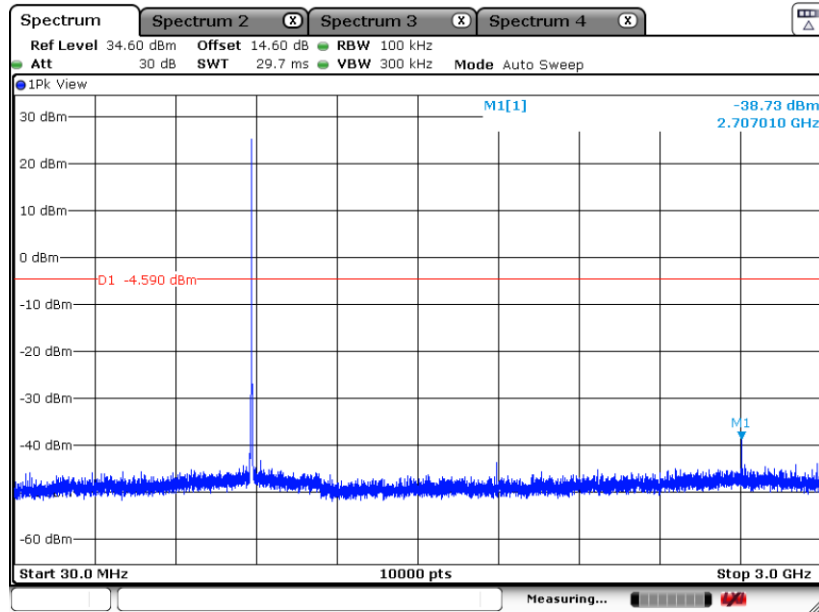
Date: 17.FEB.2022 22:50:10



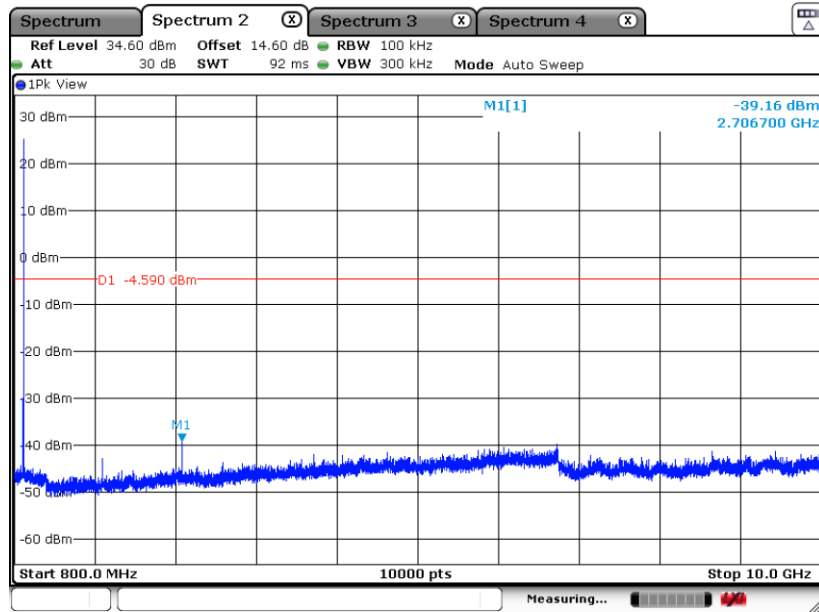
Date: 17.FEB.2022 22:50:48



Conducted Spurious Emission Plot on 902.5 MHz – SF10



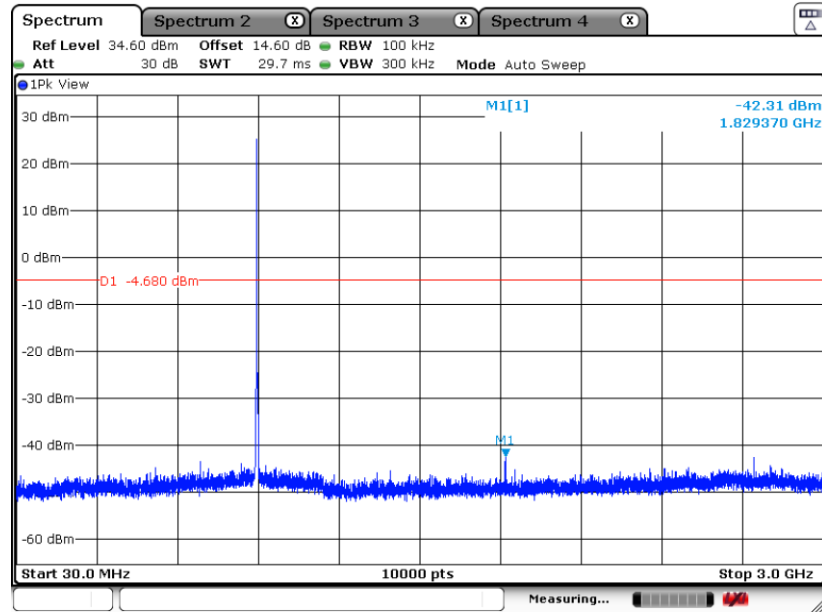
Date: 17.FEB.2022 23:22:40



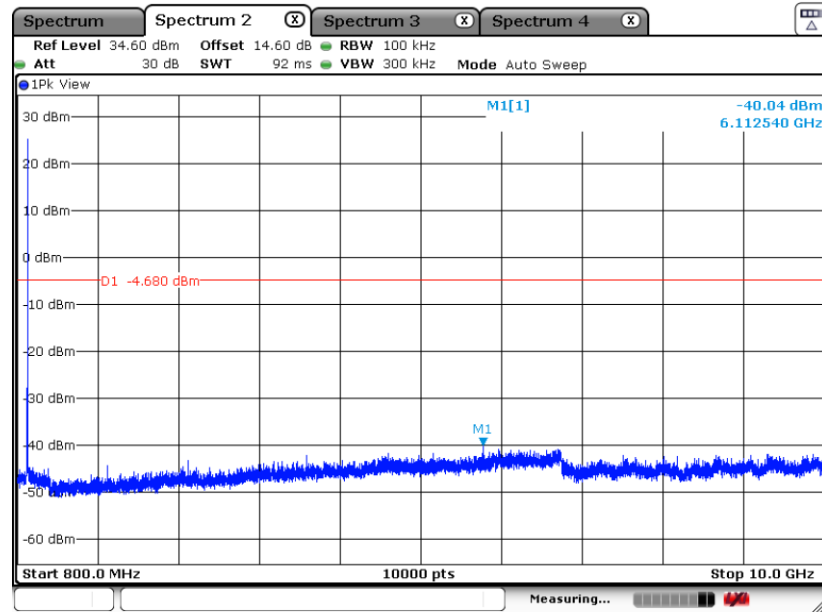
Date: 17.FEB.2022 23:23:39



Conducted Spurious Emission Plot on 914.5 MHz – SF10



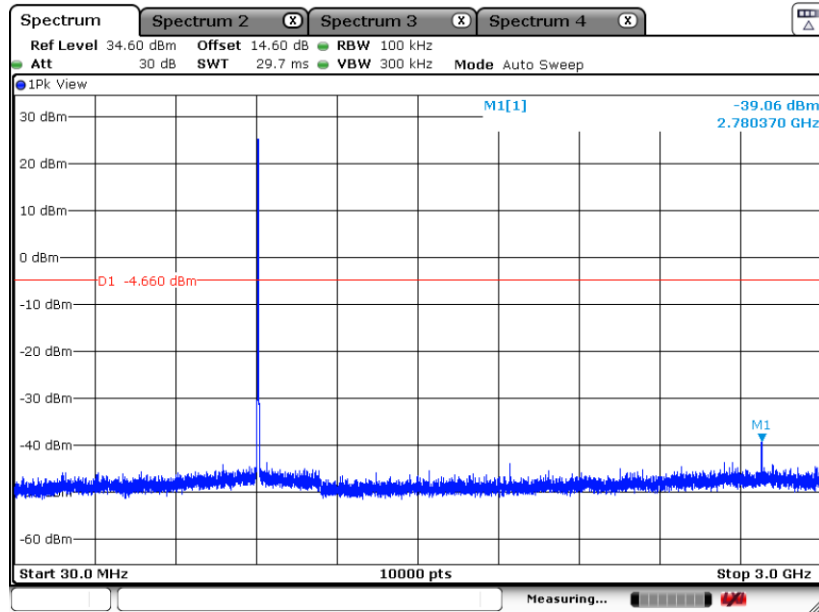
Date: 17.FEB.2022 23:20:08



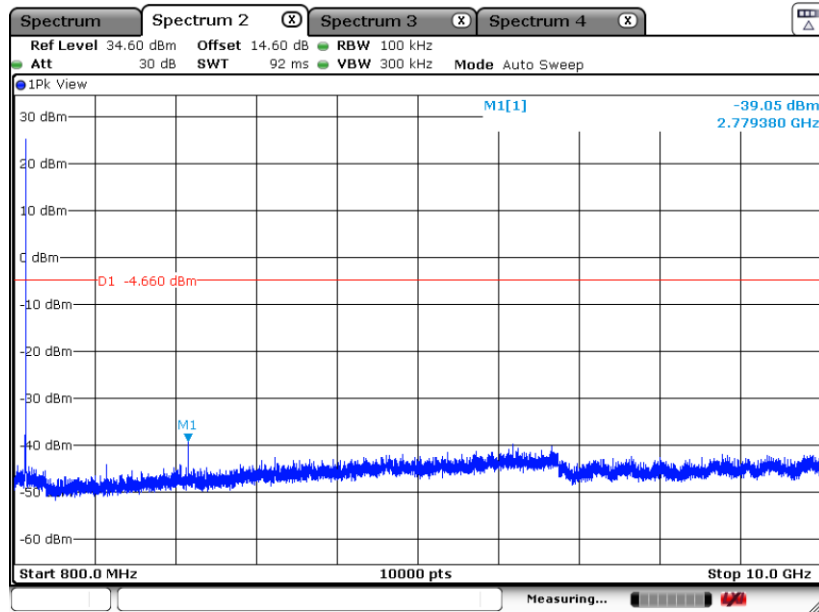
Date: 17.FEB.2022 23:20:52



Conducted Spurious Emission Plot on 926.5 MHz – SF10



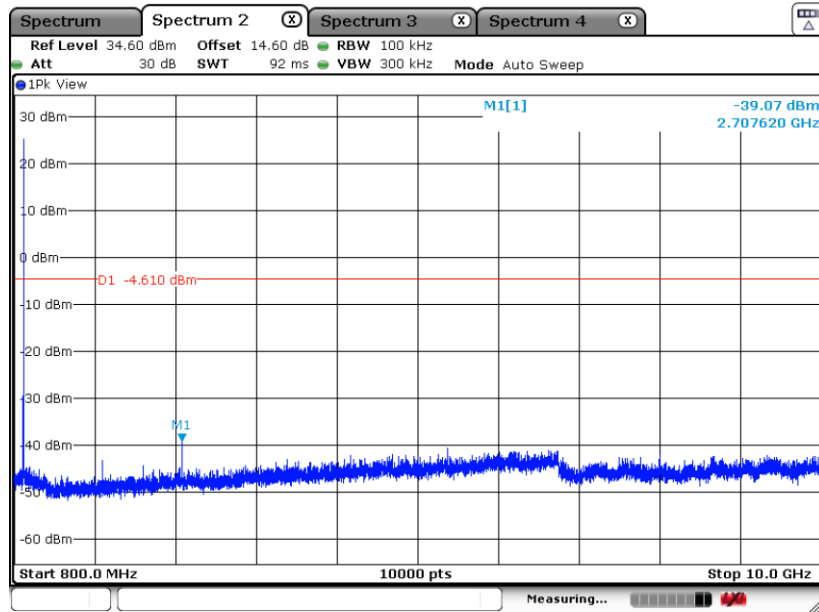
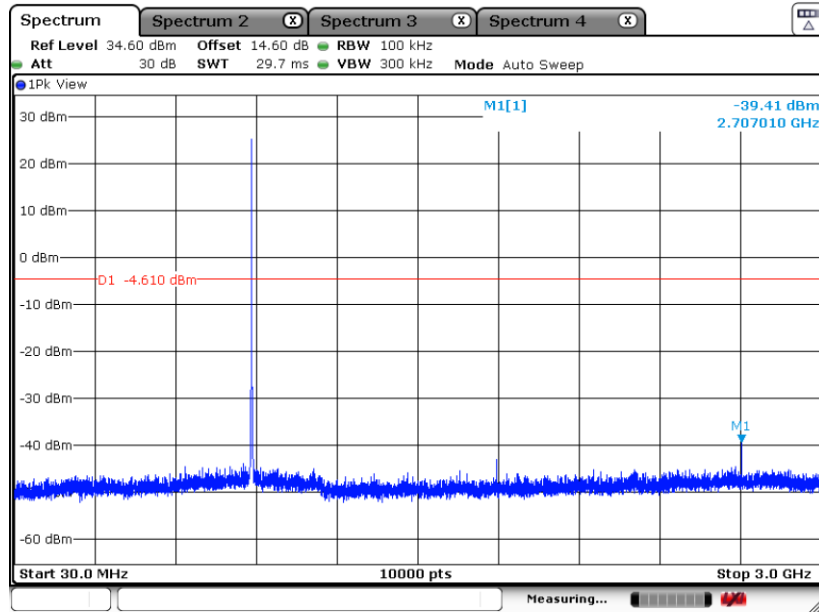
Date: 17.FEB.2022 23:16:59



Date: 17.FEB.2022 23:17:40

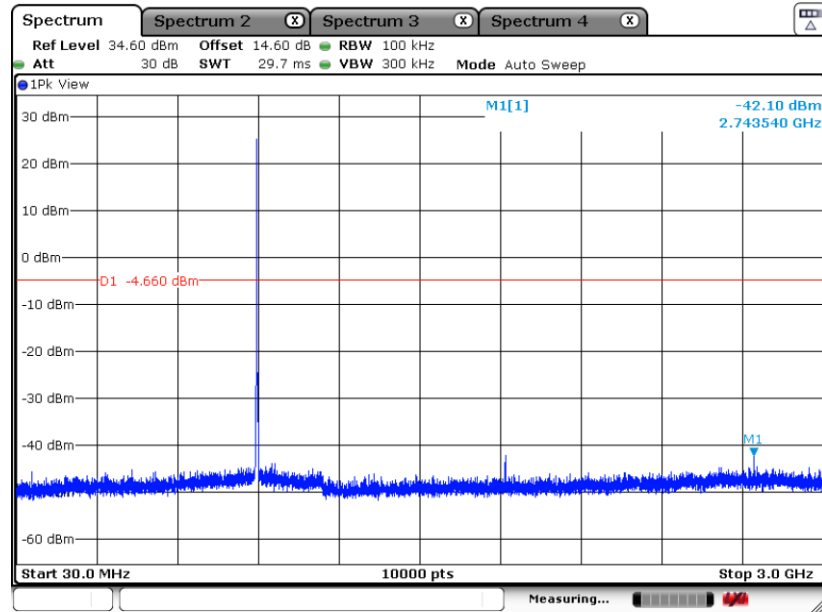


Conducted Spurious Emission Plot on 902.5 MHz – SF11

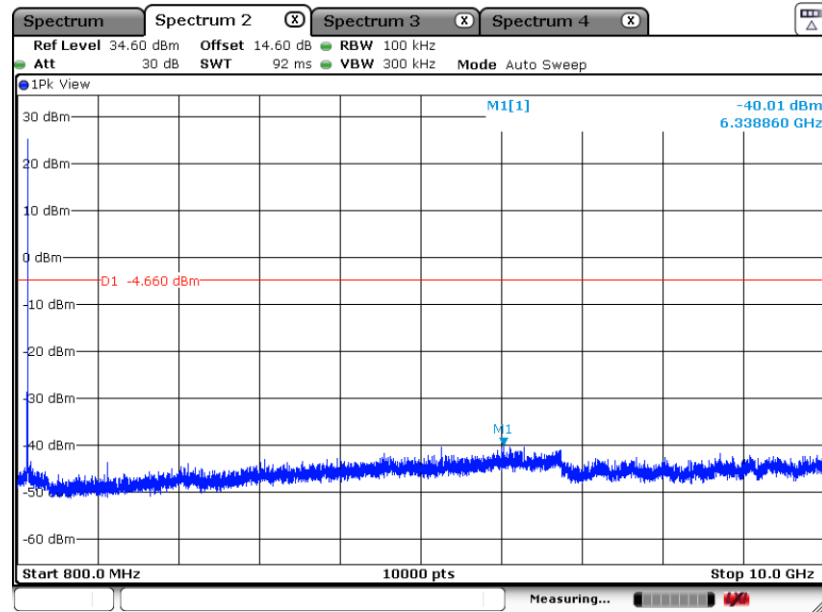




Conducted Spurious Emission Plot on 914.5 MHz – SF11



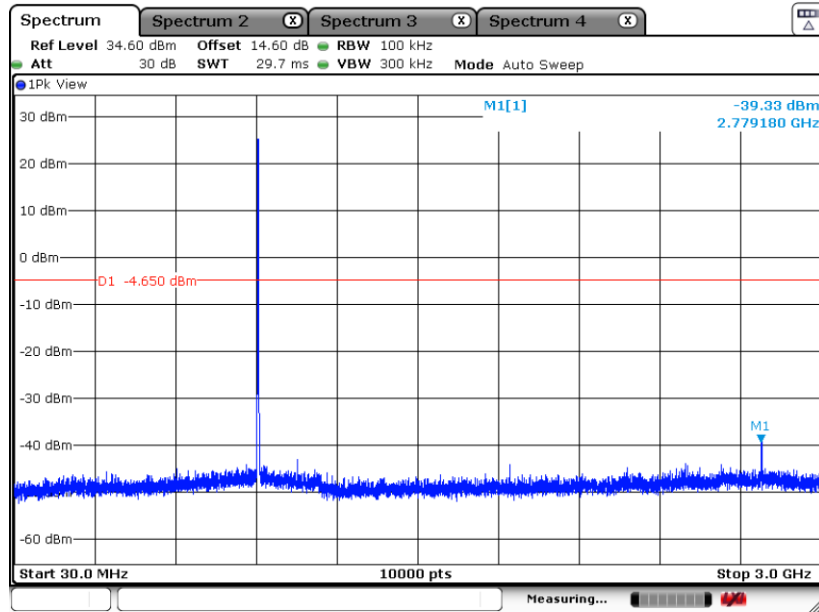
Date: 18.FEB.2022 00:00:43



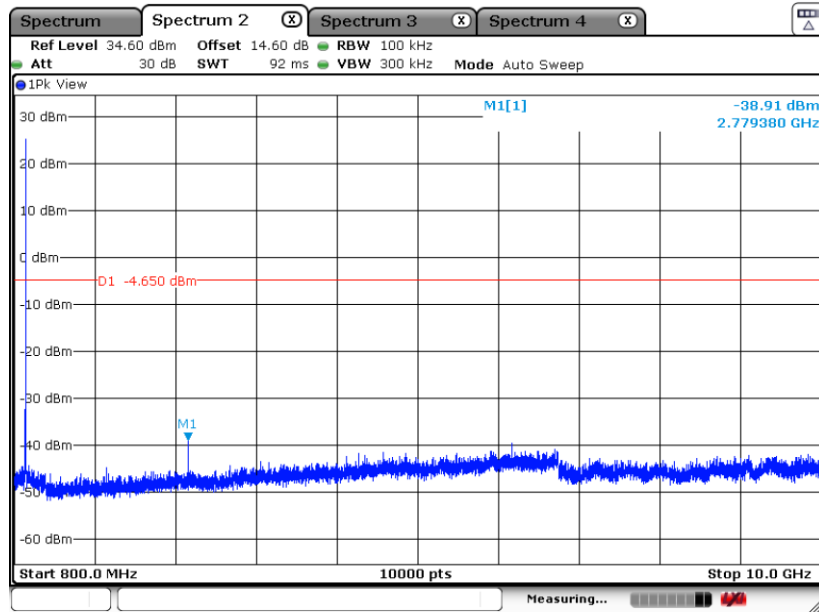
Date: 18.FEB.2022 00:01:22



Conducted Spurious Emission Plot on 926.5 MHz – SF11



Date: 17.FEB.2022 23:57:38



Date: 17.FEB.2022 23:58:15



3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and 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. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. 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

3.5.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

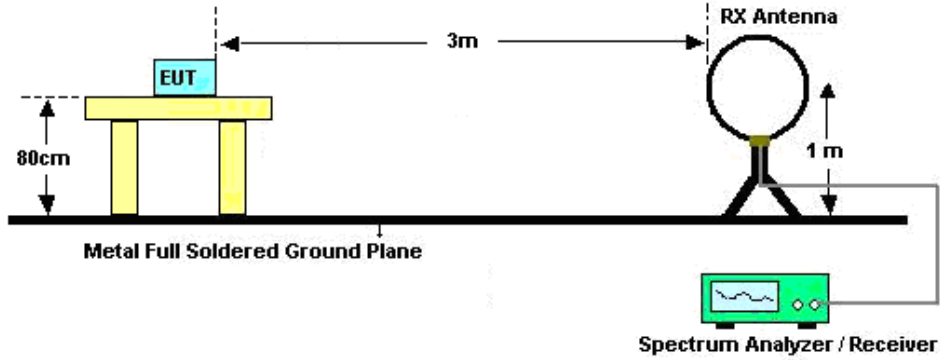


3.5.3 Test Procedures

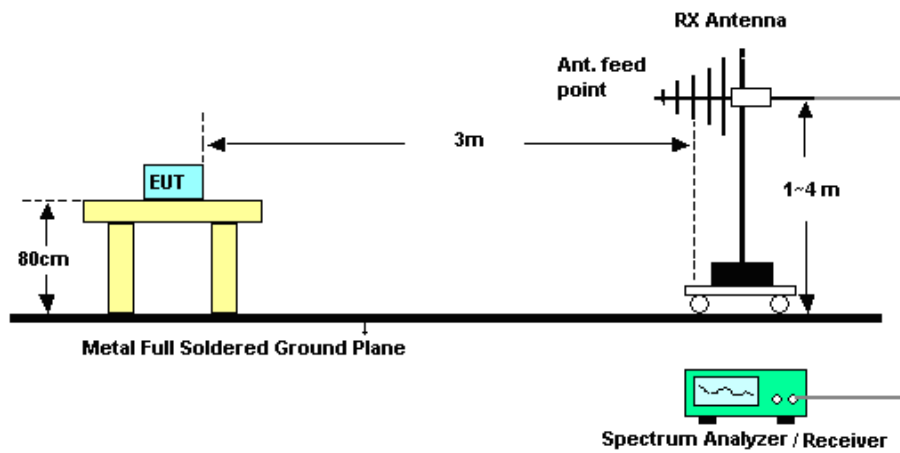
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. 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.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. 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.
7. 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.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; $VBW \geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - $VBW = 10$ Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

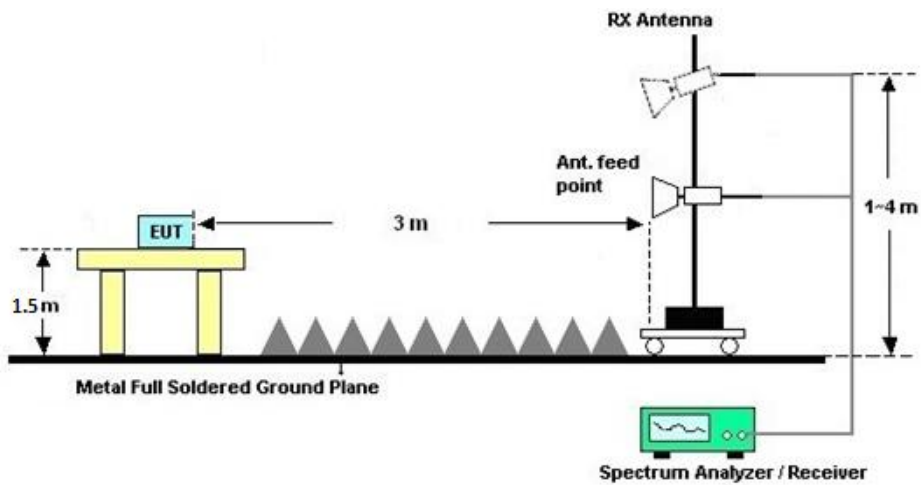
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.5.5 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.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.5.7 Duty Cycle

Please refer to Appendix C.

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

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 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	101040	10Hz~40GHz	Oct. 14, 2021	Feb. 17, 2022~ Feb. 21, 2022	Oct. 13, 2022	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2022	Feb. 17, 2022~ Feb. 21, 2022	Jan. 04, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2022	Feb. 17, 2022~ Feb. 21, 2022	Jan. 04, 2023	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 16, 2021	Feb. 21, 2022	Oct. 15, 2022	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44GHz	Apr. 12, 2021	Feb. 21, 2022	Apr. 11, 2022	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Feb. 21, 2022	Oct. 29, 2022	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	May 27, 2021	Feb. 21, 2022	May 26, 2022	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 25, 2021	Feb. 21, 2022	Apr. 24, 2022	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Apr. 12, 2021	Feb. 21, 2022	Apr. 11, 2022	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1Ghz-18Ghz	Jul. 30, 2021	Feb. 21, 2022	Jul. 29, 2022	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 13, 2021	Feb. 21, 2022	Apr. 12, 2022	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Feb. 21, 2022	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Feb. 21, 2022	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Feb. 21, 2022	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required



5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. 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 Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.94dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

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



Appendix A. Conducted Test Results

Test Engineer:	Albert Shi	Temperature:	20~26	°C
Test Date:	2022/2/17~2022/2/21	Relative Humidity:	40~51	%

LoRa-DTS-Spreading Factor 5

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Channel	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
SF5	1	902.5	0.414	0.515	0.500	Pass
SF5	16	914.5	0.515	0.590	0.500	Pass
SF5	31	926.5	0.533	0.599	0.500	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Channel	Freq. (MHz)	Duty Factor (dB)	Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
SF5	1	902.5	0.56	21.09	30.00	0.60	21.69	36.00	Pass
SF5	16	914.5	0.56	20.73	30.00	0.60	21.33	36.00	Pass
SF5	31	926.5	0.56	20.32	30.00	0.60	20.92	36.00	Pass

TEST RESULTS DATA
Peak Power Table
(Reporting Only)

Mod.	Channel	Freq. (MHz)	Peak Conducted Power (dBm)
SF5	1	902.5	21.12
SF5	16	914.5	20.82
SF5	31	926.5	20.42

TEST RESULTS DATA
Power Density

Mod.	Channel	Freq. (MHz)	Peak PSD (dBm /100kHz)	PSD (dBm /3kHz)	DG (dBi)	PSD Limit (dBm /3kHz)	Pass/Fail
SF5	1	902.5	20.41	7.92	0.60	8.00	Pass
SF5	16	914.5	19.99	4.06	0.60	8.00	Pass
SF5	31	926.5	19.71	3.41	0.60	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

LoRa-DTS-Spreading Factor 7**TEST RESULTS DATA**
6dB and 99% Occupied Bandwidth

Mod.	Channel	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
SF7	1	902.5	0.486	0.599	0.500	Pass
SF7	16	914.5	0.515	0.622	0.500	Pass
SF7	31	926.5	0.527	0.622	0.500	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Channel	Freq. (MHz)	Duty Factor (dB)	Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
SF7	1	902.5	0.03	24.68	30.00	0.60	25.28	36.00	Pass
SF7	16	914.5	0.03	24.39	30.00	0.60	24.99	36.00	Pass
SF7	31	926.5	0.03	24.21	30.00	0.60	24.81	36.00	Pass

TEST RESULTS DATA
Peak Power Table
(Reporting Only)

Mod.	Channel	Freq. (MHz)	Peak Conducted Power (dBm)
SF7	1	902.5	24.85
SF7	16	914.5	24.68
SF7	31	926.5	24.49

TEST RESULTS DATA
Power Density

Mod.	Channel	Freq. (MHz)	Peak PSD (dBm /100kHz)	PSD (dBm /3kHz)	DG (dBi)	PSD Limit (dBm /3kHz)	Pass/Fail
SF7	1	902.5	24.55	7.83	0.60	8.00	Pass
SF7	16	914.5	24.35	5.44	0.60	8.00	Pass
SF7	31	926.5	24.23	4.91	0.60	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

LoRa-DTS-Spreading Factor 8**TEST RESULTS DATA**
6dB and 99% Occupied Bandwidth

Mod.	Channel	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
SF8	1	902.5	0.501	0.617	0.500	Pass
SF8	16	914.5	0.512	0.631	0.500	Pass
SF8	31	926.5	0.521	0.631	0.500	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Channel	Freq. (MHz)	Duty Factor (dB)	Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
SF8	1	902.5	0.00	25.75	30.00	0.60	26.35	36.00	Pass
SF8	16	914.5	0.00	25.69	30.00	0.60	26.29	36.00	Pass
SF8	31	926.5	0.00	25.59	30.00	0.60	26.19	36.00	Pass

TEST RESULTS DATA
Peak Power Table
(Reporting Only)

Mod.	Channel	Freq. (MHz)	Peak Conducted Power (dBm)
SF8	1	902.5	25.80
SF8	16	914.5	25.74
SF8	31	926.5	25.65

TEST RESULTS DATA
Power Density

Mod.	Channel	Freq. (MHz)	Peak PSD (dBm /100kHz)	PSD (dBm /3kHz)	DG (dBi)	PSD Limit (dBm /3kHz)	Pass/Fail
SF8	1	902.5	25.19	7.61	0.60	8.00	Pass
SF8	16	914.5	25.05	5.80	0.60	8.00	Pass
SF8	31	926.5	24.97	5.72	0.60	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

LoRa-DTS-Spreading Factor 9**TEST RESULTS DATA**
6dB and 99% Occupied Bandwidth

Mod.	Channel	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
SF11	1	902.5	0.501	0.628	0.500	Pass
SF11	16	914.5	0.512	0.634	0.500	Pass
SF11	31	926.5	0.518	0.634	0.500	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Channel	Freq. (MHz)	Duty Factor (dB)	Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
SF11	1	902.5	0.00	26.12	30.00	0.60	26.72	36.00	Pass
SF11	16	914.5	0.00	26.11	30.00	0.60	26.71	36.00	Pass
SF11	31	926.5	0.00	26.10	30.00	0.60	26.70	36.00	Pass

TEST RESULTS DATA
Peak Power Table
(Reporting Only)

Mod.	Channel	Freq. (MHz)	Peak Conducted Power (dBm)
SF11	1	902.5	26.17
SF11	16	914.5	26.16
SF11	31	926.5	26.15

TEST RESULTS DATA
Power Density

Mod.	Channel	Freq. (MHz)	Peak PSD (dBm /100kHz)	PSD (dBm /3kHz)	DG (dBi)	PSD Limit (dBm /3kHz)	Pass/Fail
SF11	1	902.5	25.46	7.53	0.60	8.00	Pass
SF11	16	914.5	25.37	6.03	0.60	8.00	Pass
SF11	31	926.5	25.38	6.15	0.60	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

LoRa-DTS-Spreading Factor 10**TEST RESULTS DATA**
6dB and 99% Occupied Bandwidth

Mod.	Channel	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
SF10	1	902.5	0.509	0.631	0.500	Pass
SF10	16	914.5	0.518	0.640	0.500	Pass
SF10	31	926.5	0.521	0.637	0.500	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Channel	Freq. (MHz)	Duty Factor (dB)	Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
SF10	1	902.5	0.00	26.11	30.00	0.60	26.71	36.00	Pass
SF10	16	914.5	0.00	26.13	30.00	0.60	26.73	36.00	Pass
SF10	31	926.5	0.00	26.10	30.00	0.60	26.70	36.00	Pass

TEST RESULTS DATA
Peak Power Table
(Reporting Only)

Mod.	Channel	Freq. (MHz)	Peak Conducted Power (dBm)
SF10	1	902.5	26.16
SF10	16	914.5	26.17
SF10	31	926.5	26.14

TEST RESULTS DATA
Power Density

Mod.	Channel	Freq. (MHz)	Peak PSD (dBm /100kHz)	PSD (dBm /3kHz)	DG (dBi)	PSD Limit (dBm /3kHz)	Pass/Fail
SF10	1	902.5	25.41	7.67	0.60	8.00	Pass
SF10	16	914.5	25.32	5.91	0.60	8.00	Pass
SF10	31	926.5	25.34	6.25	0.60	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

LoRa-DTS-Spreading Factor 11**TEST RESULTS DATA**
6dB and 99% Occupied Bandwidth

Mod.	Channel	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
SF11	1	902.5	0.515	0.634	0.500	Pass
SF11	16	914.5	0.518	0.640	0.500	Pass
SF11	31	926.5	0.521	0.640	0.500	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Channel	Freq. (MHz)	Duty Factor (dB)	Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
SF11	1	902.5	0.00	26.12	30.00	0.60	26.72	36.00	Pass
SF11	16	914.5	0.00	26.13	30.00	0.60	26.73	36.00	Pass
SF11	31	926.5	0.00	26.11	30.00	0.60	26.71	36.00	Pass

TEST RESULTS DATA
Peak Power Table
(Reporting Only)

Mod.	Channel	Freq. (MHz)	Peak Conducted Power (dBm)
SF11	1	902.5	26.17
SF11	16	914.5	26.18
SF11	31	926.5	26.16

TEST RESULTS DATA
Power Density

Mod.	Channel	Freq. (MHz)	Peak PSD (dBm /100kHz)	PSD (dBm /3kHz)	DG (dBi)	PSD Limit (dBm /3kHz)	Pass/Fail
SF11	1	902.5	25.39	7.64	0.60	8.00	Pass
SF11	16	914.5	25.34	5.80	0.60	8.00	Pass
SF11	31	926.5	25.35	5.75	0.60	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.



Appendix B. Radiated Spurious Emission

902~928MHz

LoRa DTS SF=5 (Band Edge @ 3m)

Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
902.5MHz	120.21	30.79	-12.71	43.5	43.92	17.4	1.63	32.16	156	344	P	H
	263.77	31.58	-14.42	46	41.53	20	2.22	32.17	153	344	P	H
	903	117.08	-	-	115.83	28.96	4.49	32.2	156	344	P	H
	120.21	27.56	-15.94	43.5	40.69	17.4	1.63	32.16	147	321	P	V
	240.49	27.81	-18.19	46	40.6	17.3	2.09	32.18	147	321	P	V
	903	109.71	-	-	108.46	28.96	4.49	32.2	147	321	P	V
914.5MHz	120.21	31.79	-11.71	43.5	44.92	17.4	1.63	32.16	151	331	P	H
	240.49	29.42	-16.58	46	42.21	17.3	2.09	32.18	151	331	P	H
	914.64	117.38	-	-	115.77	29.3	4.51	32.2	151	331	P	H
	120.21	28.88	-14.62	43.5	42.01	17.4	1.63	32.16	155	317	P	V
	240.49	27.81	-18.19	46	40.6	17.3	2.09	32.18	155	317	P	V
	914.64	109.56	-	-	107.95	29.3	4.51	32.2	155	317	P	V
926.5MHz	120.21	31.6	-11.9	43.5	44.73	17.4	1.63	32.16	149	348	P	H
	263.77	31.38	-14.62	46	41.33	20	2.22	32.17	149	348	P	H
	926.28	117.32	-	-	115.56	29.42	4.54	32.2	149	348	P	H
	120.21	28.48	-15.02	43.5	41.61	17.4	1.63	32.16	148	325	P	V
	240.49	28.46	-17.54	46	41.25	17.3	2.09	32.18	148	325	P	V
	926.28	109.37	-	-	107.61	29.42	4.54	32.2	148	325	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.											



LoRa DTS SF=5 (Harmonic @ 3m)

	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		1805	35.11	-51.97	87.08	64.15	29.34	6.34	64.72	300	0	P	H
		2710	37.08	-36.92	74	63.23	31.06	7.89	65.1	300	0	P	H
		1805	34.72	-44.99	79.71	63.76	29.34	6.34	64.72	100	360	P	V
		2710	37.98	-36.02	74	64.13	31.06	7.89	65.1	100	360	P	V
914.5MHz		1828	35.42	-51.96	87.38	64.34	29.4	6.4	64.72	300	0	P	H
		2746	38.05	-35.95	74	64.16	31.04	7.96	65.11	300	0	P	H
		1828	34.28	-45.28	79.56	63.2	29.4	6.4	64.72	100	360	P	V
		2746	38.65	-35.35	74	64.76	31.04	7.96	65.11	100	360	P	V
926.5MHz		1855	36.11	-51.21	87.32	64.88	29.52	6.43	64.72	300	360	P	H
		2773	36.54	-37.46	74	62.65	31.02	7.99	65.12	300	360	P	H
		1855	34.11	-45.26	79.37	62.88	29.52	6.43	64.72	100	0	P	V
		2773	38.95	-35.05	74	65.06	31.02	7.99	65.12	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



LoRa DTS SF=7 (Band Edge @ 3m)

	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		120.21	31.16	-12.34	43.5	44.29	17.4	1.63	32.16	139	277	P	H
		263.77	31.11	-14.89	46	41.06	20	2.22	32.17	139	277	P	H
		903	119.85	-	-	118.6	28.96	4.49	32.2	139	277	P	H
		240.49	27.94	-18.06	46	40.73	17.3	2.09	32.18	157	350	P	V
		613.94	31.46	-14.54	46	34.48	25.58	3.67	32.27	157	350	P	V
		903	112.66	-	-	111.41	28.96	4.49	32.2	157	350	P	V
914.5MHz		120.21	31.26	-12.24	43.5	44.39	17.4	1.63	32.16	142	337	P	H
		263.77	29.9	-16.1	46	39.85	20	2.22	32.17	142	337	P	H
		914.64	120.78	-	-	119.17	29.3	4.51	32.2	142	337	P	H
		240.49	27.22	-18.78	46	40.01	17.3	2.09	32.18	159	322	P	V
		335	26.41	-19.59	46	36.09	19.8	2.69	32.17	159	322	P	V
		914.64	112.76	-	-	111.15	29.3	4.51	32.2	159	322	P	V
926.5MHz		120.21	30.87	-12.63	43.5	44	17.4	1.63	32.16	155	341	P	H
		263.77	30.52	-15.48	46	40.47	20	2.22	32.17	155	341	P	H
		926.28	122.43	-	-	120.67	29.42	4.54	32.2	155	341	P	H
		120.21	29.38	-14.12	43.5	42.51	17.4	1.63	32.16	158	321	P	V
		240.49	28.81	-17.19	46	41.6	17.3	2.09	32.18	158	321	P	V
		926.28	113.37	-	-	111.61	29.42	4.54	32.2	158	321	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



LoRa DTS SF=7 (Harmonic @ 3m)

	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		1805	35.41	-54.44	89.85	63.19	30.6	6.34	64.72	300	0	P	H
		2707	40.93	-33.07	74	65.86	32.3	7.86	65.09	300	0	P	H
		1805	36.98	-45.68	82.66	64.76	30.6	6.34	64.72	100	360	P	V
		2707	38.79	-35.21	74	63.72	32.3	7.86	65.09	100	360	P	V
914.5MHz		1828	35.34	-55.44	90.78	64.26	29.4	6.4	64.72	300	0	P	H
		2746	42.25	-31.75	74	68.36	31.04	7.96	65.11	300	0	P	H
		1828	33.94	-48.82	82.76	62.86	29.4	6.4	64.72	100	360	P	V
		2746	35.74	-38.26	74	61.85	31.04	7.96	65.11	100	360	P	V
926.5MHz		1855	35.26	-57.17	92.43	64.03	29.52	6.43	64.72	100	360	P	H
		2782	40.95	-33.05	74	67.04	31.01	8.02	65.12	100	360	P	H
		1855	36.71	-46.66	83.37	65.48	29.52	6.43	64.72	300	0	P	V
		2782	38.53	-35.47	74	64.62	31.01	8.02	65.12	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



LoRa DTS SF=8 (Band Edge @ 3m)

	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		120.21	30.78	-12.72	43.5	43.91	17.4	1.63	32.16	150	342	P	H
		263.77	31.86	-14.14	46	41.81	20	2.22	32.17	150	342	P	H
		903	121.2	-	-	119.95	28.96	4.49	32.2	150	342	P	H
		120.21	29.02	-14.48	43.5	42.15	17.4	1.63	32.16	158	314	P	V
		240.49	29.71	-16.29	46	42.5	17.3	2.09	32.18	158	314	P	V
		903	113.77	-	-	112.52	28.96	4.49	32.2	158	314	P	V
914.5MHz		402.3	32.3	-13.7	46	39.7	21.9	3	32.3	147	341	P	H
		613.88	37.1	-8.9	46	40.12	25.58	3.67	32.27	147	341	P	H
		914.64	122.61	-	-	121	29.3	4.51	32.2	147	341	P	H
		120.21	29.76	-13.74	43.5	42.89	17.4	1.63	32.16	157	321	P	V
		240.49	29.3	-16.7	46	42.09	17.3	2.09	32.18	157	321	P	V
		914.64	114.44	-	-	112.83	29.3	4.51	32.2	157	321	P	V
926.5MHz		120.21	31.58	-11.92	43.5	44.71	17.4	1.63	32.16	156	352	P	H
		322.27	32.35	-13.65	46	42.51	19.34	2.64	32.14	156	352	P	H
		926.28	122.36	-	-	120.6	29.42	4.54	32.2	156	352	P	H
		120.21	29.13	-14.37	43.5	42.26	17.4	1.63	32.16	151	314	P	V
		240.49	29	-17	46	41.79	17.3	2.09	32.18	151	314	P	V
		926.28	114.97	-	-	113.21	29.42	4.54	32.2	151	314	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



LoRa DTS SF=8 (Harmonic @ 3m)

	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		1804	34.47	-56.73	91.2	63.51	29.34	6.34	64.72	300	0	P	H
		2710	39.51	-34.49	74	65.66	31.06	7.89	65.1	300	0	P	H
		1805	37.44	-46.33	83.77	66.48	29.34	6.34	64.72	100	360	P	V
		2710	41.43	-32.57	74	67.58	31.06	7.89	65.1	100	360	P	V
914.5MHz		1828	36.5	-56.11	92.61	64.04	30.78	6.4	64.72	0	360	P	H
		2746	37.99	-36.01	74	62.84	32.3	7.96	65.11	100	360	P	H
		1828	36.72	-47.72	84.44	64.26	30.78	6.4	64.72	0	0	P	V
		2746	38.24	-35.76	74	63.09	32.3	7.96	65.11	300	0	P	V
926.5MHz		1855	38.2	-54.16	92.36	65.61	30.88	6.43	64.72	100	360	P	H
		2782	40.69	-33.31	74	65.49	32.3	8.02	65.12	100	360	P	H
		1855	34.5	-50.47	84.97	61.91	30.88	6.43	64.72	300	360	P	V
		2782	40.26	-33.74	74	65.06	32.3	8.02	65.12	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



LoRa DTS SF=9 (Band Edge @ 3m)

	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		120.21	29.85	-13.65	43.5	42.98	17.4	1.63	32.16	142	334	P	H
		263.77	31.54	-14.46	46	41.49	20	2.22	32.17	142	334	P	H
		903	121.01	-	-	119.76	28.96	4.49	32.2	142	334	P	H
		120.21	30.27	-13.23	43.5	43.4	17.4	1.63	32.16	155	321	P	V
		240.49	29.9	-16.1	46	42.69	17.3	2.09	32.18	155	321	P	V
		902.03	114.39	-	-	113.16	28.94	4.49	32.2	155	321	P	V
914.5MHz		120.21	31.4	-12.1	43.5	44.53	17.4	1.63	32.16	157	342	P	H
		263.77	30.51	-15.49	46	40.46	20	2.22	32.17	157	342	P	H
		914.64	122.12	-	-	120.51	29.3	4.51	32.2	157	342	P	H
		120.21	30.84	-12.66	43.5	43.97	17.4	1.63	32.16	148	327	P	V
		240.49	28.71	-17.29	46	41.5	17.3	2.09	32.18	148	327	P	V
		914.64	114.89	-	-	113.28	29.3	4.51	32.2	148	327	P	V
926.5MHz		120.21	30.65	-12.85	43.5	43.78	17.4	1.63	32.16	140	348	P	H
		263.77	30.92	-15.08	46	40.87	20	2.22	32.17	140	348	P	H
		926.28	122.7	-	-	120.94	29.42	4.54	32.2	140	348	P	H
		120.21	28.65	-14.85	43.5	41.78	17.4	1.63	32.16	152	319	P	V
		240.49	28.58	-17.42	46	41.37	17.3	2.09	32.18	152	319	P	V
		926.28	115.52	-	-	113.76	29.42	4.54	32.2	152	319	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



LoRa DTS SF=9 (Harmonic @ 3m)

	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		1801	36.31	-54.7	91.01	60.83	29.28	6.21	60.01	300	0	P	H
		2707.5	43.11	-30.89	74	64.29	31.06	7.55	59.79	300	0	P	H
		1801	37.51	-46.88	84.39	62.03	29.28	6.21	60.01	100	0	P	V
		2707.5	51.55	-22.45	74	72.73	31.06	7.55	59.79	103	360	P	V
		2707.5	38.39	-15.61	54	59.57	31.06	7.55	59.79	103	360	A	V
914.5MHz		1828	37.61	-54.51	92.12	62.05	29.4	6.26	60.1	300	0	P	H
		2743.5	42.82	-31.18	74	63.99	31.04	7.61	59.82	300	0	P	H
		1828	38.14	-46.75	84.89	62.58	29.4	6.26	60.1	100	0	P	V
		2743.5	47.44	-26.56	74	68.61	31.04	7.61	59.82	100	0	P	V
926.5MHz		1855	37.15	-55.55	92.7	61.48	29.52	6.29	60.14	300	0	P	H
		2779.5	45.88	-28.12	74	67.07	31.01	7.65	59.85	300	0	P	H
		1855	37.54	-47.98	85.52	61.87	29.52	6.29	60.14	100	0	P	V
		2779.5	47.08	-26.92	74	68.27	31.01	7.65	59.85	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



LoRa DTS SF=10 (Band Edge @ 3m)

	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		120.21	30.56	-12.94	43.5	43.69	17.4	1.63	32.16	159	342	P	H
		263.77	31.77	-14.23	46	41.72	20	2.22	32.17	159	342	P	H
		903	120.94	-	-	119.69	28.96	4.49	32.2	159	342	P	H
		120.21	28.84	-14.66	43.5	41.97	17.4	1.63	32.16	137	311	P	V
		263.77	29	-17	46	38.95	20	2.22	32.17	137	311	P	V
		903	114.15	-	-	112.9	28.96	4.49	32.2	137	311	P	V
914.5MHz		120.21	31.49	-12.01	43.5	44.62	17.4	1.63	32.16	157	344	P	H
		263.77	31.16	-14.84	46	41.11	20	2.22	32.17	157	344	P	H
		914.64	122.08	-	-	120.47	29.3	4.51	32.2	157	344	P	H
		120.21	29.98	-13.52	43.5	43.11	17.4	1.63	32.16	146	329	P	V
		240.49	29.3	-16.7	46	42.09	17.3	2.09	32.18	146	329	P	V
		914.64	114.87	-	-	113.26	29.3	4.51	32.2	146	329	P	V
926.5MHz		120.21	30.87	-12.63	43.5	44	17.4	1.63	32.16	138	339	P	H
		263.77	31.39	-14.61	46	41.34	20	2.22	32.17	138	339	P	H
		926.28	122.88	-	-	121.12	29.42	4.54	32.2	138	339	P	H
		120.21	29.94	-13.56	43.5	43.07	17.4	1.63	32.16	154	307	P	V
		240.49	28.8	-17.2	46	41.59	17.3	2.09	32.18	154	307	P	V
		926.28	115.58	-	-	113.82	29.42	4.54	32.2	154	307	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



LoRa DTS SF=10 (Harmonic @ 3m)

	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		1805	37.67	-53.27	90.94	62.13	29.34	6.21	60.01	300	0	P	H
		2707.5	49.39	-24.61	74	70.57	31.06	7.55	59.79	300	0	P	H
		1805	36.8	-47.35	84.15	61.26	29.34	6.21	60.01	100	0	P	V
		2707.5	43.13	-30.87	74	64.31	31.06	7.55	59.79	100	0	P	V
914.5MHz		1828	37.23	-54.85	92.08	61.67	29.4	6.26	60.1	300	0	P	H
		2743.5	44.19	-29.81	74	65.36	31.04	7.61	59.82	300	0	P	H
		1828	37.71	-47.16	84.87	62.15	29.4	6.26	60.1	100	0	P	V
		2743.5	43.44	-30.56	74	64.61	31.04	7.61	59.82	100	0	P	V
926.5MHz		1855	37.31	-55.57	92.88	61.64	29.52	6.29	60.14	300	0	P	H
		2779.5	44.78	-29.22	74	65.97	31.01	7.65	59.85	300	0	P	H
		1855	36.9	-48.68	85.58	61.23	29.52	6.29	60.14	100	0	P	V
		2779.5	47.16	-26.84	74	68.35	31.01	7.65	59.85	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



LoRa DTS SF=11 (Band Edge @ 3m)

	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		120.21	30.38	-13.12	43.5	43.51	17.4	1.63	32.16	156	341	P	H
		263.77	30.76	-15.24	46	40.71	20	2.22	32.17	156	341	P	H
		903	120.96	-	-	119.71	28.96	4.49	32.2	156	341	P	H
		120.21	30.42	-13.08	43.5	43.55	17.4	1.63	32.16	159	328	P	V
		240.52	30.12	-15.88	46	42.91	17.3	2.09	32.18	158	328	P	V
		902.03	114.35	-	-	113.12	28.94	4.49	32.2	158	328	P	V
914.5MHz		120.21	30.52	-12.98	43.5	43.65	17.4	1.63	32.16	158	341	P	H
		263.77	30.38	-15.62	46	40.33	20	2.22	32.17	158	341	P	H
		914.64	122.08	-	-	120.47	29.3	4.51	32.2	158	341	P	H
		120.21	29.16	-14.34	43.5	42.29	17.4	1.63	32.16	154	321	P	V
		239.52	29.98	-16.02	46	42.87	17.2	2.09	32.18	154	321	P	V
		914.64	115.56	-	-	113.95	29.3	4.51	32.2	154	321	P	V
926.5MHz		120.21	30.4	-13.1	43.5	43.53	17.4	1.63	32.16	155	344	P	H
		240.12	30.29	-15.71	46	43.08	17.3	2.09	32.18	155	344	P	H
		926.28	122.89	-	-	121.13	29.42	4.54	32.2	155	344	P	H
		120.21	29.51	-13.99	43.5	42.64	17.4	1.63	32.16	147	319	P	V
		240.49	28.9	-17.1	46	41.69	17.3	2.09	32.18	147	319	P	V
		926.28	115.49	-	-	113.73	29.42	4.54	32.2	147	319	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



LoRa DTS SF=11 (Harmonic @ 3m)

	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		1805	37.37	-53.59	90.96	61.83	29.34	6.21	60.01	300	0	P	H
		2707.5	43.6	-30.4	74	64.78	31.06	7.55	59.79	300	0	P	H
		1805	37.37	-46.98	84.35	61.83	29.34	6.21	60.01	100	0	P	V
		2707.5	43.41	-30.59	74	64.59	31.06	7.55	59.79	100	0	P	V
914.5MHz		1828	37.58	-54.5	92.08	62.02	29.4	6.26	60.1	300	0	P	H
		2743.5	44.05	-29.95	74	65.22	31.04	7.61	59.82	300	0	P	H
		1828	37.44	-48.12	85.56	61.88	29.4	6.26	60.1	100	0	P	V
		2743.5	43.59	-30.41	74	64.76	31.04	7.61	59.82	100	0	P	V
926.5MHz		1855	36.96	-55.93	92.89	61.29	29.52	6.29	60.14	300	0	P	H
		2779.5	45.15	-28.85	74	66.34	31.01	7.65	59.85	300	0	P	H
		1855	37.82	-47.67	85.49	62.15	29.52	6.29	60.14	100	0	P	V
		2779.5	47.01	-26.99	74	68.2	31.01	7.65	59.85	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB) = 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB) = 55.45 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m) = 55.45(dBμV/m) – 74(dBμV/m) = -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB) = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB) = 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m) = 43.54(dBμV/m) – 54(dBμV/m) = -10.46(dB)

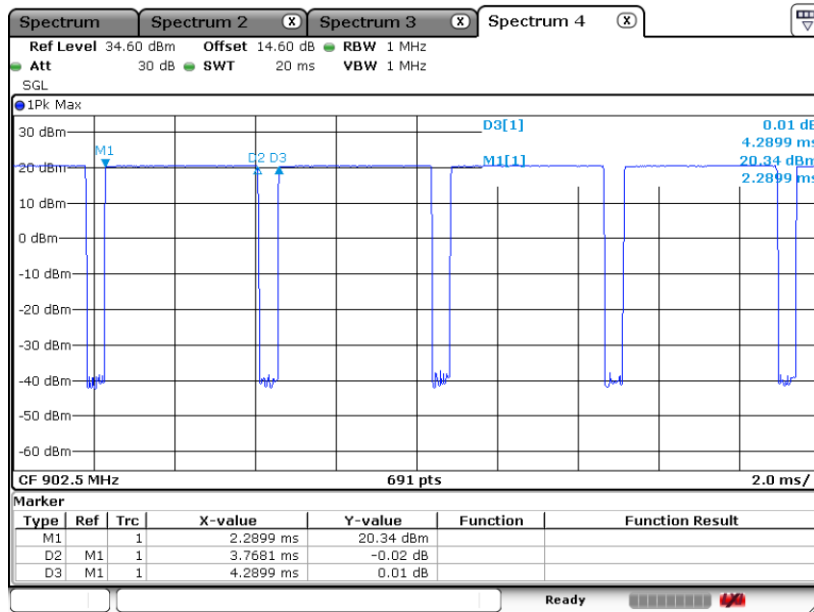
Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix C. Duty Cycle Plots

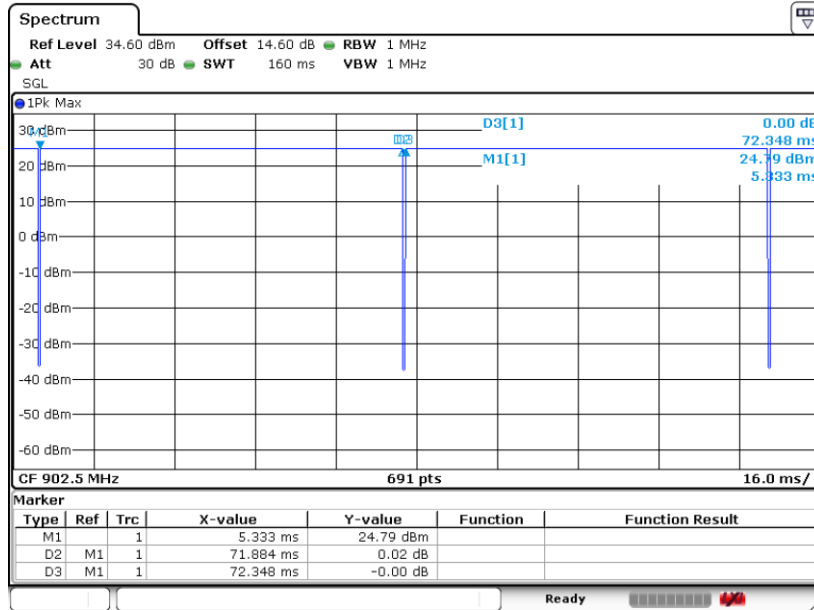
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
LoRa DTS SF5	87.84	3.768	0.265	3kHz
LoRa DTS SF7	99.36	-	-	10Hz
LoRa DTS SF8	100	-	-	10Hz
LoRa DTS SF9	100	-	-	10Hz
LoRa DTS SF10	100	-	-	10Hz
LoRa DTS SF11	100	-	-	10Hz

LoRa DTS SF5

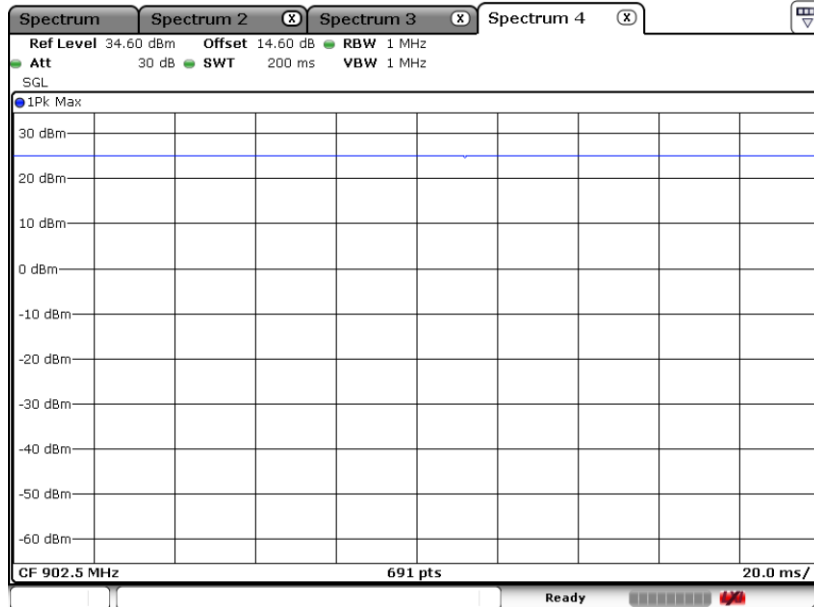




LoRa DTS SF7

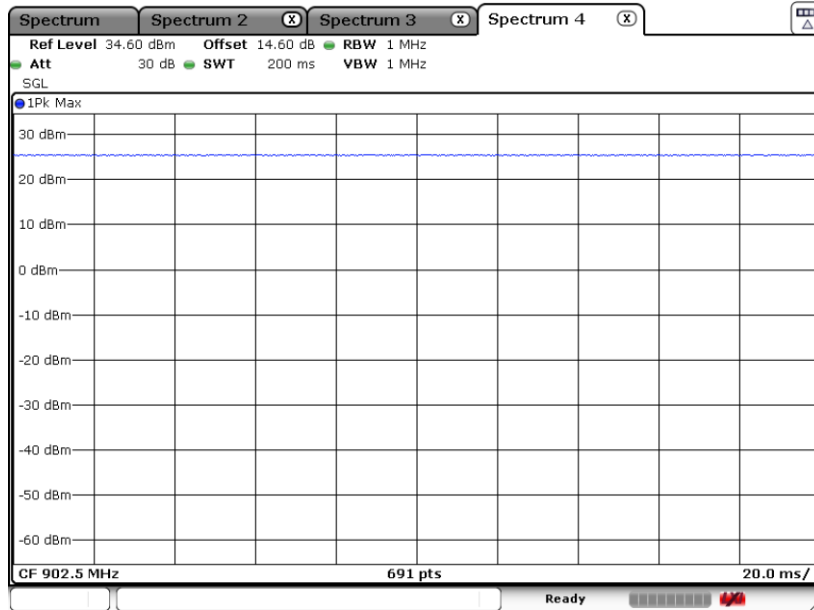


LoRa DTS SF8

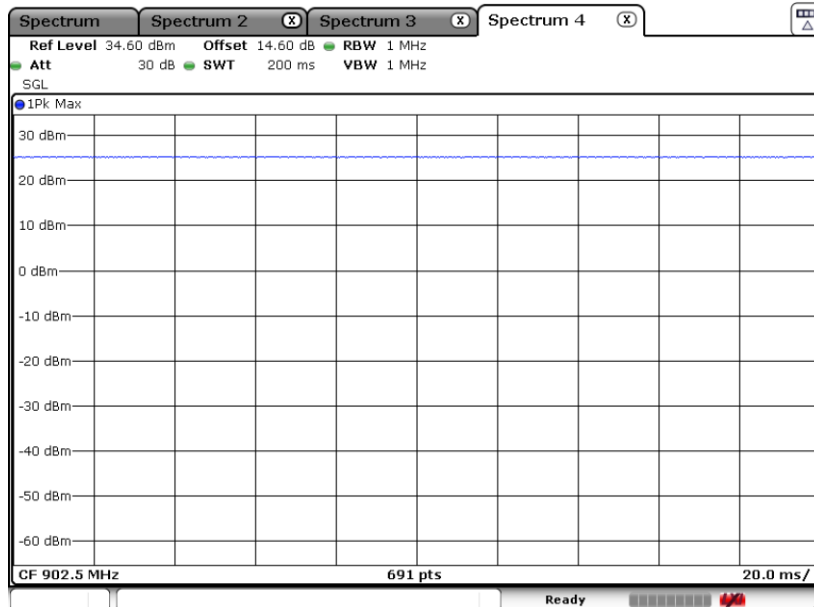




LoRa DTS SF9



LoRa DTS SF10





LoRa DTS SF11

