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Shenzhen Branch**

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Report No.: SZEM170900971202
Page: 1 of 112

TEST REPORT

Application No.: SZEM1709009712CR (SGS SZ No.: T51710260038EM)
Applicant: SHENZHEN BESUNVO TECHNOLOGY CO. LTD
Address of Applicant: 3F, FLAT B1, AILIJI INDUSTRIAL PARK, GUANLAN TOWN, LONGHUA DISTRICT, SHENZHEN, China
Buyer: odyssey
Equipment Under Test (EUT):
EUT Name: racing drone
Model No.: QX190
Requested Age Grading: 14+
FCC ID: 2ANSFSZBSVRX
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2017-09-12
Date of Test: 2017-10-21 to 2017-10-24
Date of Issue: 2017-10-26

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



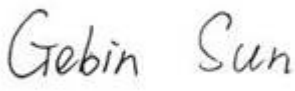

Jack Zhang
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2017-10-26		Original

Authorized for issue by:				
				
		<hr/>		
		Gebin Sun /Project Engineer		
				
		<hr/>		
		Eric Fu /Reviewer		



2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.4	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 4.5V (1.5V x 3 "AA" Size Batteries) for Remote controller DC 3.7V (1 x 3.7V Rechargeable battery) for Plane
Cable:	USB Cable:20cm unshielded
Type of Modulation:	IEEE for 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE for 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n (HT20): OFDM (64QAM, 16QAM, QPSK, BPSK)
Operating Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Channel Number:	IEEE 802.11b/g, IEEE 802.11n(HT20): 11 Channels
Channels Step:	Channels with 5MHz step
Sample Type:	Portable production
Antenna Type:	Integral
Antenna Gain:	0dBi

4.2 Description of Support Units

The EUT has been tested independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25×10^{-8}
2	Duty cycle	0.37%
3	Occupied Bandwidth	3%
4	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	RF Radiated power	4.5dB (below 1GHz)
		4.8dB (above 1GHz)
8	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-18GHz)
9	Temperature test	1 °C
10	Humidity test	3%
11	Supply voltages	1.5%
12	Time	3%



4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017-09-27	2018-09-27
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2017-07-13	2018-07-12
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2017-09-27	2018-09-27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2017-09-27	2018-09-27

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017-09-27	2018-09-27
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2017-07-13	2018-07-12
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2017-09-27	2018-09-27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2017-09-27	2018-09-27

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017-09-27	2018-09-27
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2017-07-13	2018-07-12
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2017-09-27	2018-09-27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2017-09-27	2018-09-27



Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017-09-27	2018-09-27
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2017-07-13	2018-07-12
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2017-09-27	2018-09-27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2017-09-27	2018-09-27

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017-09-27	2018-09-27
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2017-07-13	2018-07-12
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2017-09-27	2018-09-27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2017-09-27	2018-09-27



Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-02	2020-05-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2017-07-13	2018-07-12
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-03-05	2020-03-05
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
Horn Antenna(15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-14	2017-06-16	2020-06-15
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017-09-27	2018-09-27
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2017-09-27	2018-09-27
Pre-amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2016-12-02	2017-12-01
Pre-amplifier(26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2017-04-14	2018-04-13
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-27
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21
Band filter	N/A	N/A	SEM023-01	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2017-09-29	2018-09-29
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-29
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-29
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-18

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(c)

6.1.2 Conclusion

Standard Requirement:

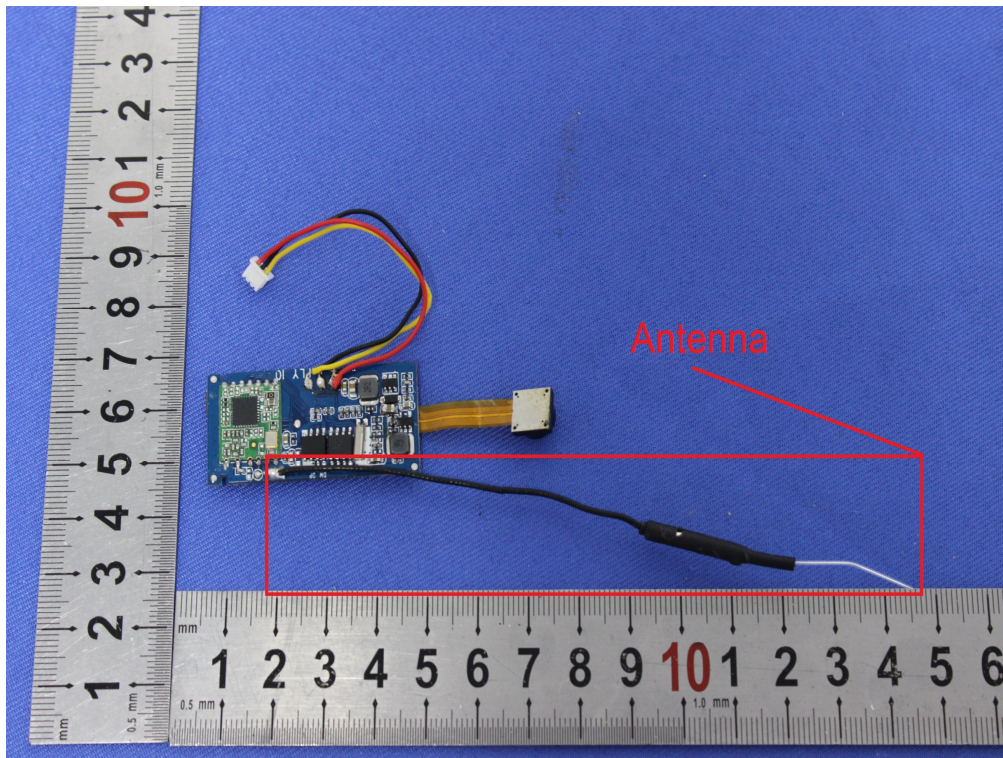
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.



7 Radio Spectrum Matter Test Results

7.1 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
 Test Method: ANSI C63.10 (2013) Section 11.8.1
 Limit: ≥ 500 kHz

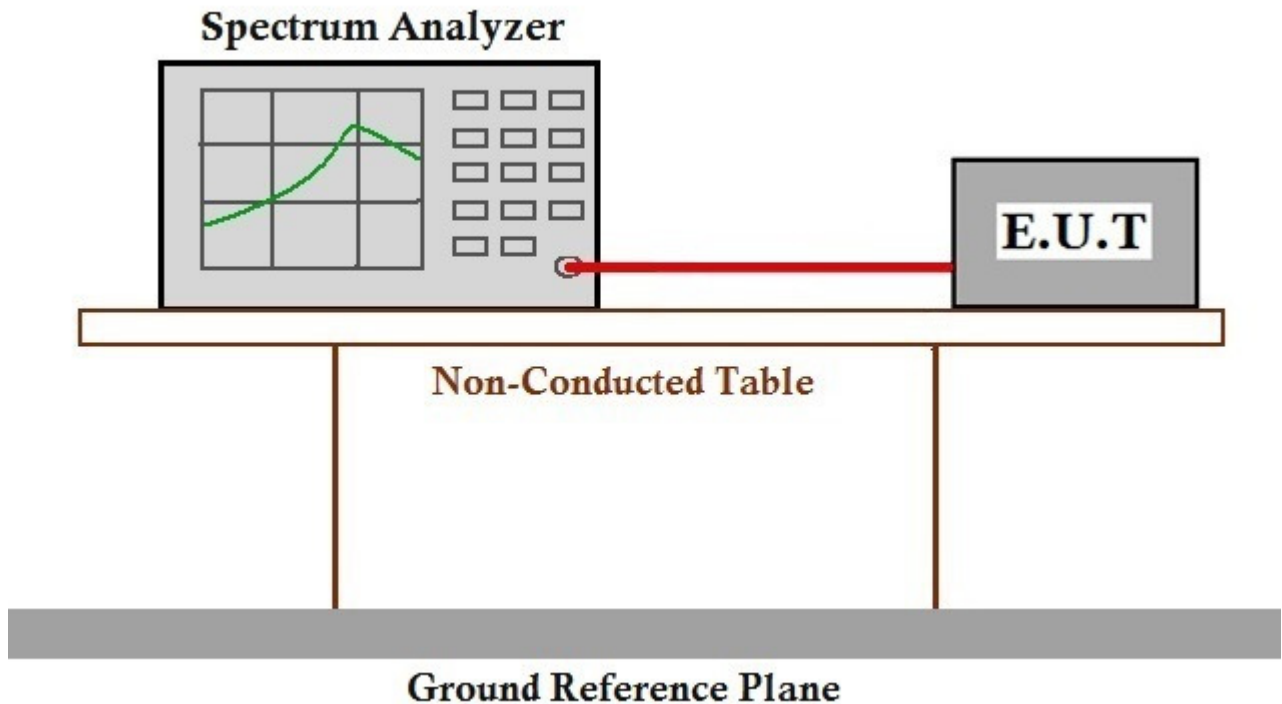
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

Test mode c:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate. Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

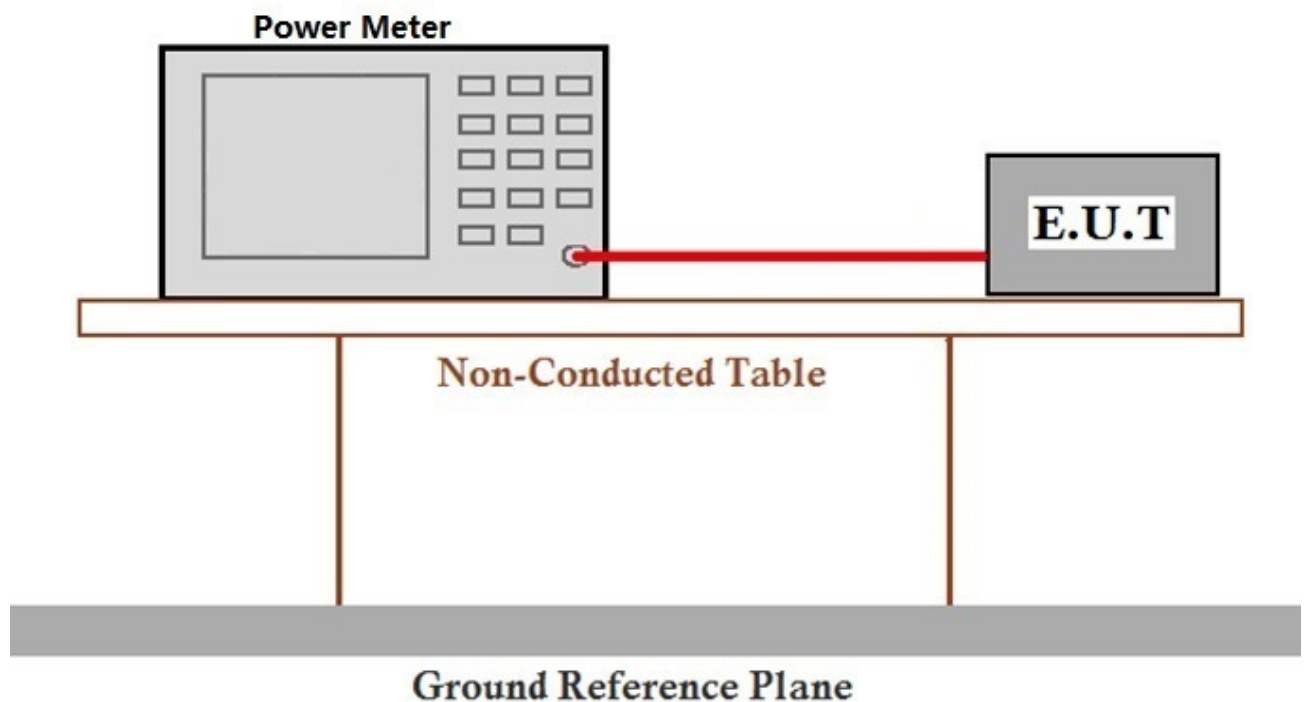
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

Test mode c:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate. Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

7.3 Power Spectrum Density

Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2
Limit:	≤8dBm in any 3 kHz band during any time interval of continuous transmission

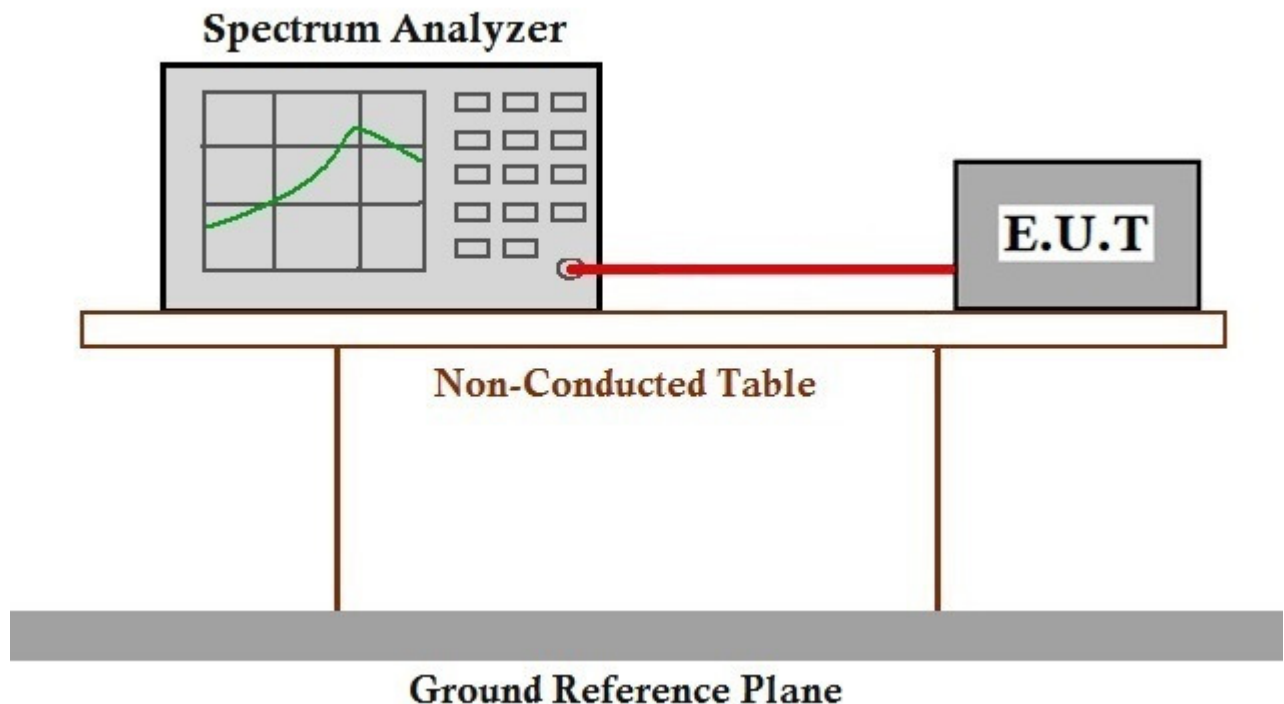
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

Test mode c:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate. Only the data of worst case is recorded in the report.

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



7.4 Conducted Band Edges Measurement

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.13.3.2
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))

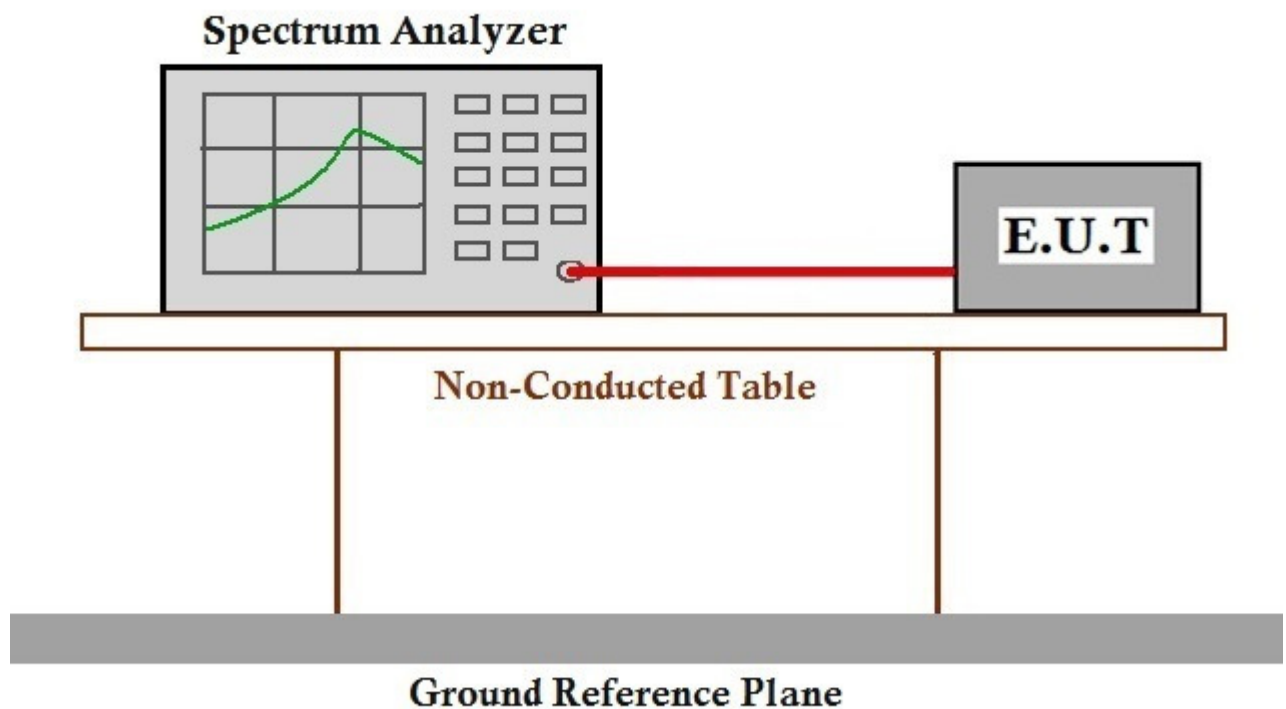
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

Test mode c:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate. Only the data of worst case is recorded in the report.

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



7.5 Conducted Spurious Emissions

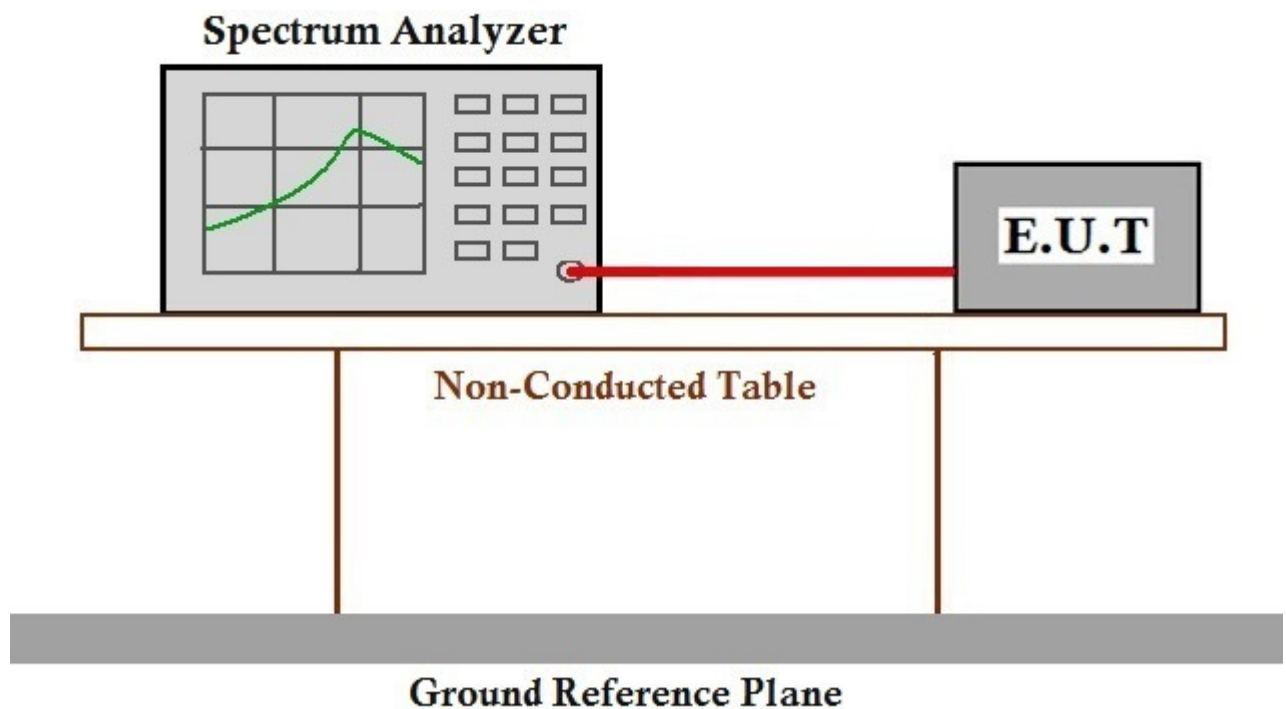
Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.11
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar
 Test mode c:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate. Only the data of worst case is recorded in the report.

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)
Test Method: ANSI C63.10 (2013) Section 6.10.5
Measurement Distance: 3m
Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

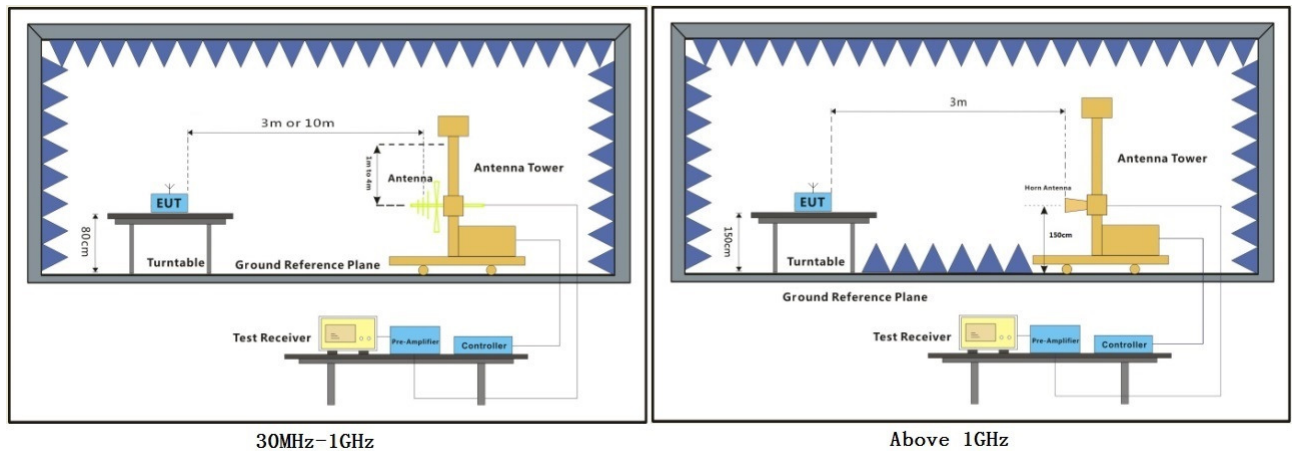
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

Test mode c:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate. Only the data of worst case is recorded in the report.

7.6.2 Test Setup Diagram





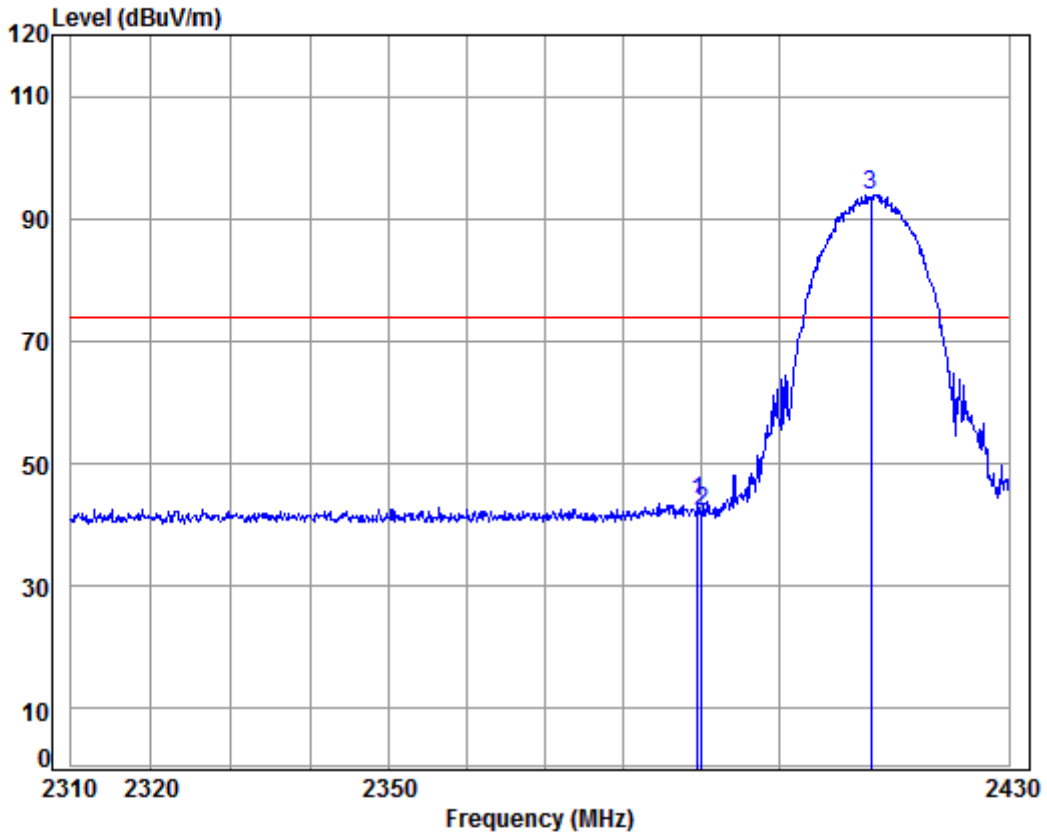
7.6.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Mode:c; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:Low

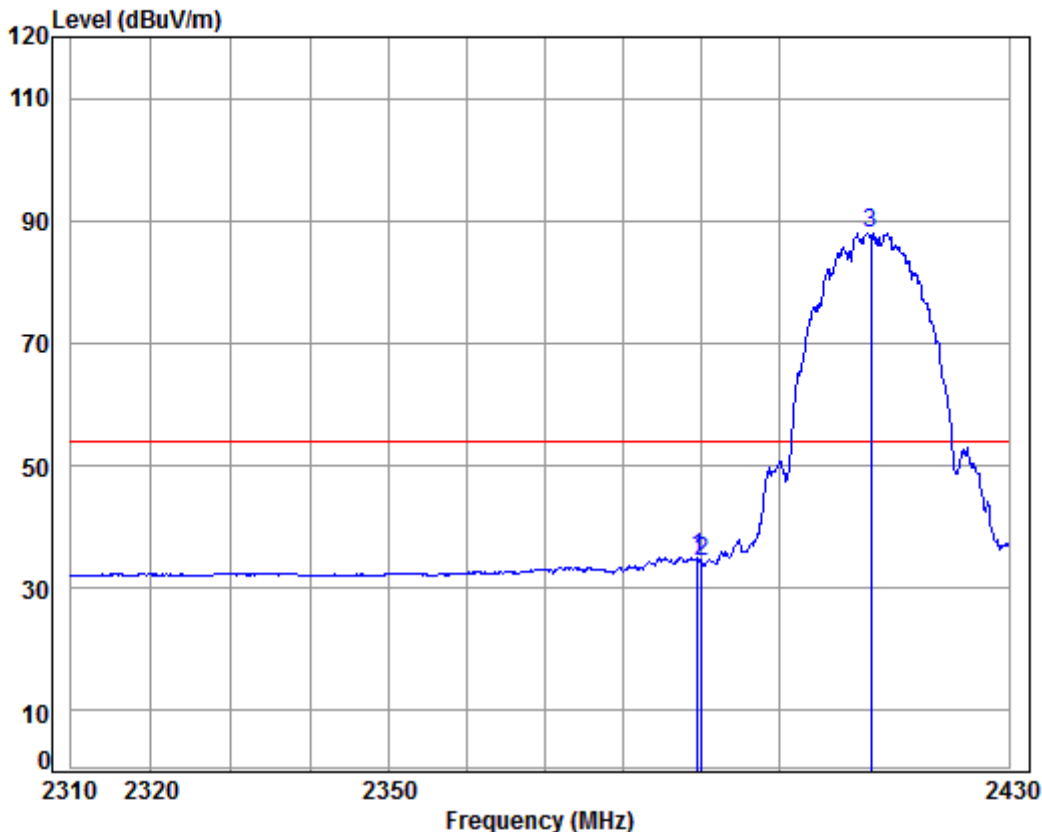


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2412 Band edge
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.484	5.47	29.08	37.96	47.22	43.81	74.00	-30.19	peak
2	2390.000	5.47	29.08	37.96	45.48	42.07	74.00	-31.93	peak
3 pp	2412.000	5.50	29.14	37.95	97.20	93.89	74.00	19.89	peak



Mode:c; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:Low

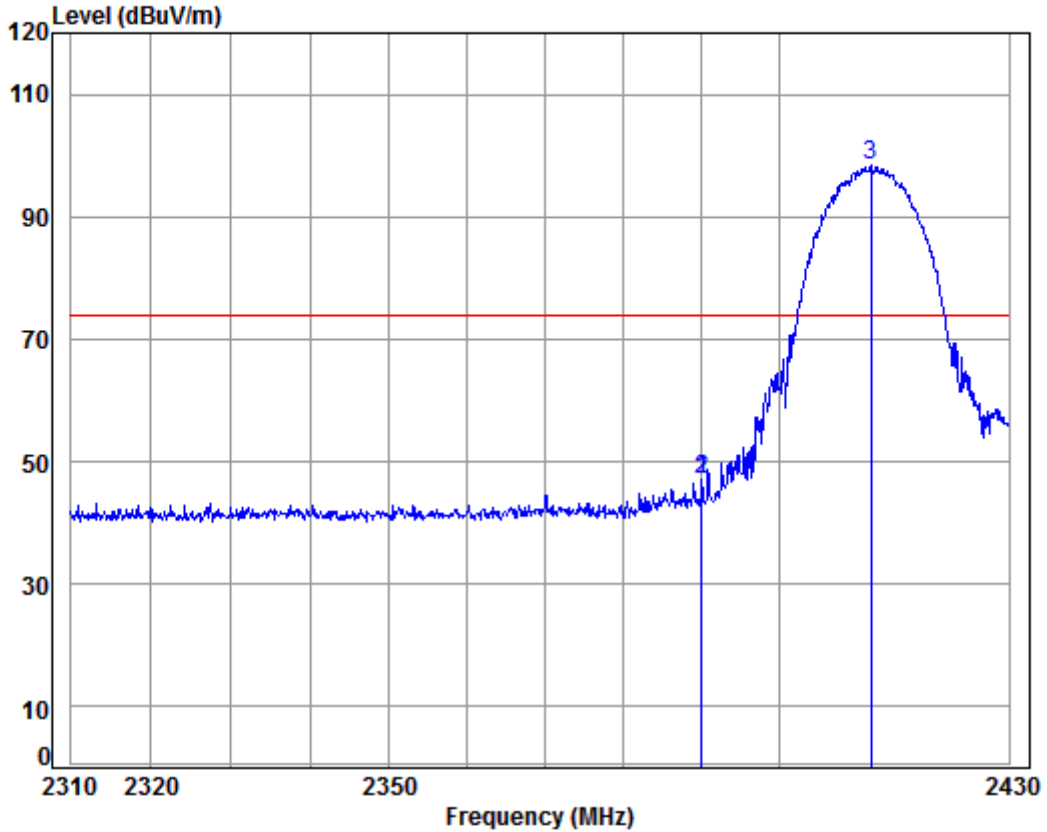


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2412 Band edge
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.484	5.47	29.08	37.96	38.35	34.94	54.00	-19.06	Average
2	2390.000	5.47	29.08	37.96	37.82	34.41	54.00	-19.59	Average
3 pp	2412.000	5.50	29.14	37.95	91.34	88.03	54.00	34.03	Average



Mode:c; Polarization:Vertical; Modulation Type:802.11b; bandwidth:20MHz; Channel:Low



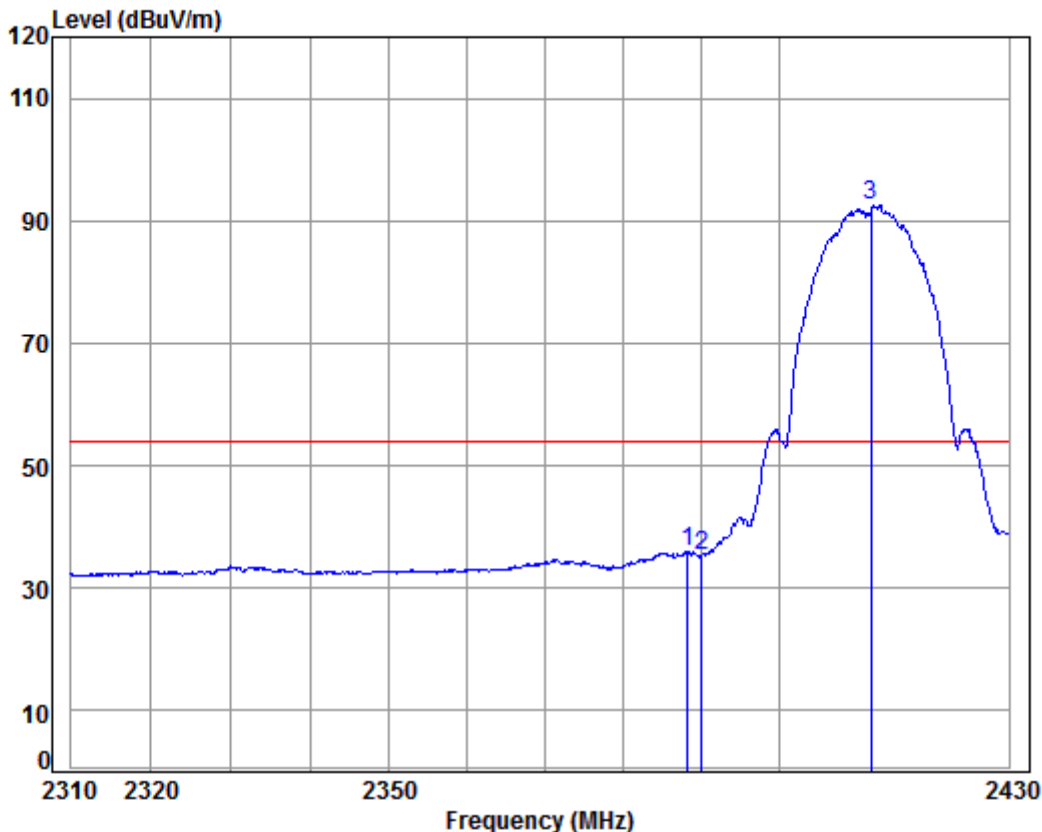
Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2412 Band edge
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	5.47	29.08	37.96	50.52	47.11	74.00	-26.89	Peak
2	2390.000	5.47	29.08	37.96	50.52	47.11	74.00	-26.89	Peak
3 pp	2412.000	5.50	29.14	37.95	101.59	98.28	74.00	24.28	Peak

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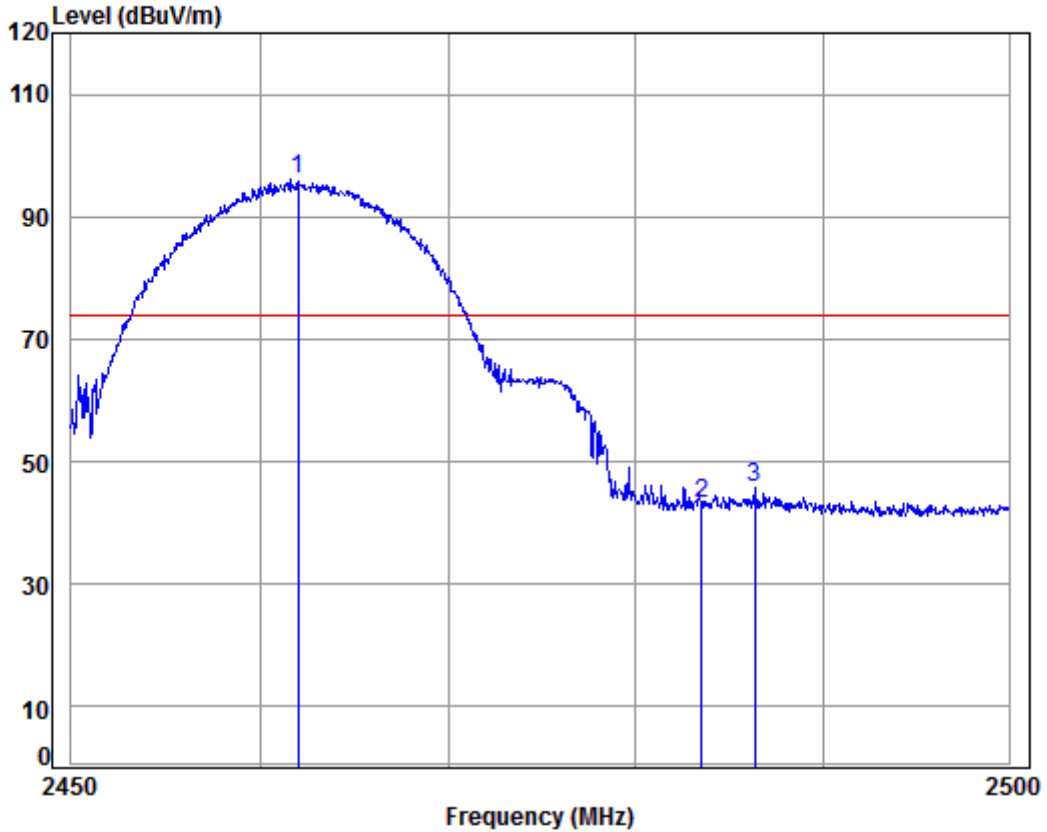
Mode:c; Polarization:Vertical; Modulation Type:802.11b; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2412 Band edge
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.154	5.47	29.07	37.96	39.41	35.99	54.00	-18.01	Average
2	2390.000	5.47	29.08	37.96	38.80	35.39	54.00	-18.61	Average
3 pp	2412.000	5.50	29.14	37.95	95.95	92.64	54.00	38.64	Average

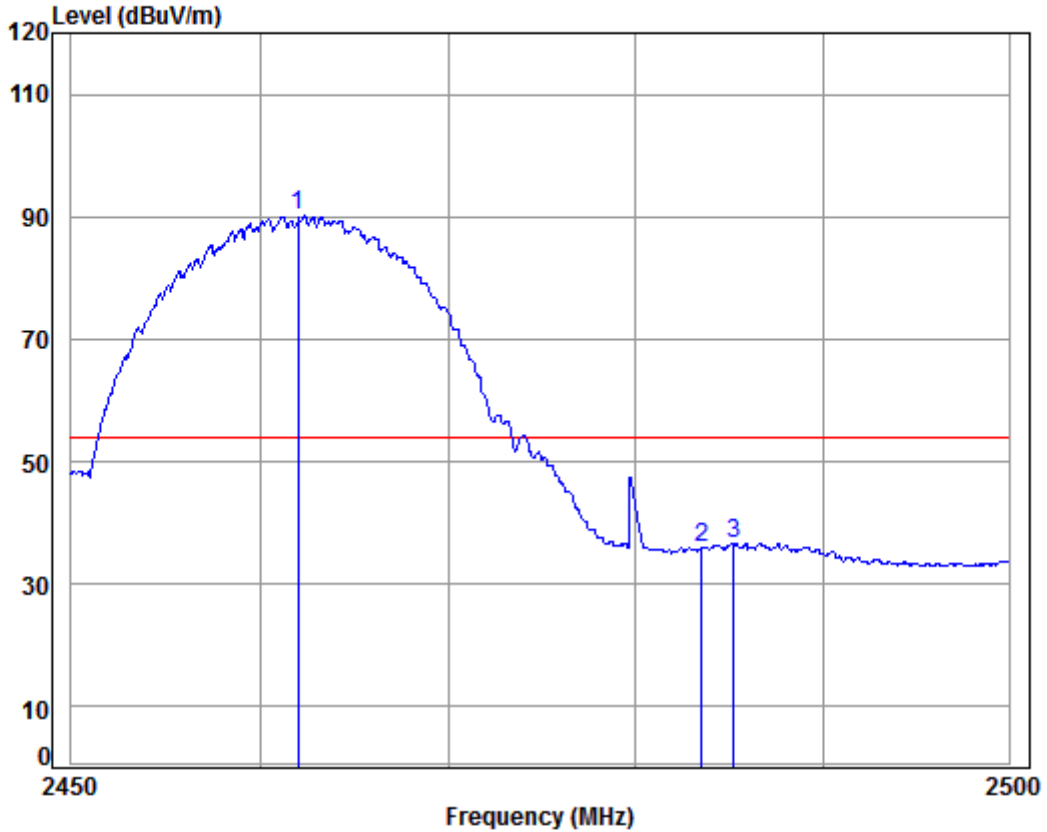
Mode:c; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
 Job No : 09712CR
 Mode : 2462 Band edge
 : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	5.57	29.29	37.95	99.24	96.15	74.00	22.15	peak
2	2483.500	5.60	29.35	37.95	46.24	43.24	74.00	-30.76	peak
3	2486.350	5.60	29.36	37.95	48.64	45.65	74.00	-28.35	peak

Mode:c; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:High

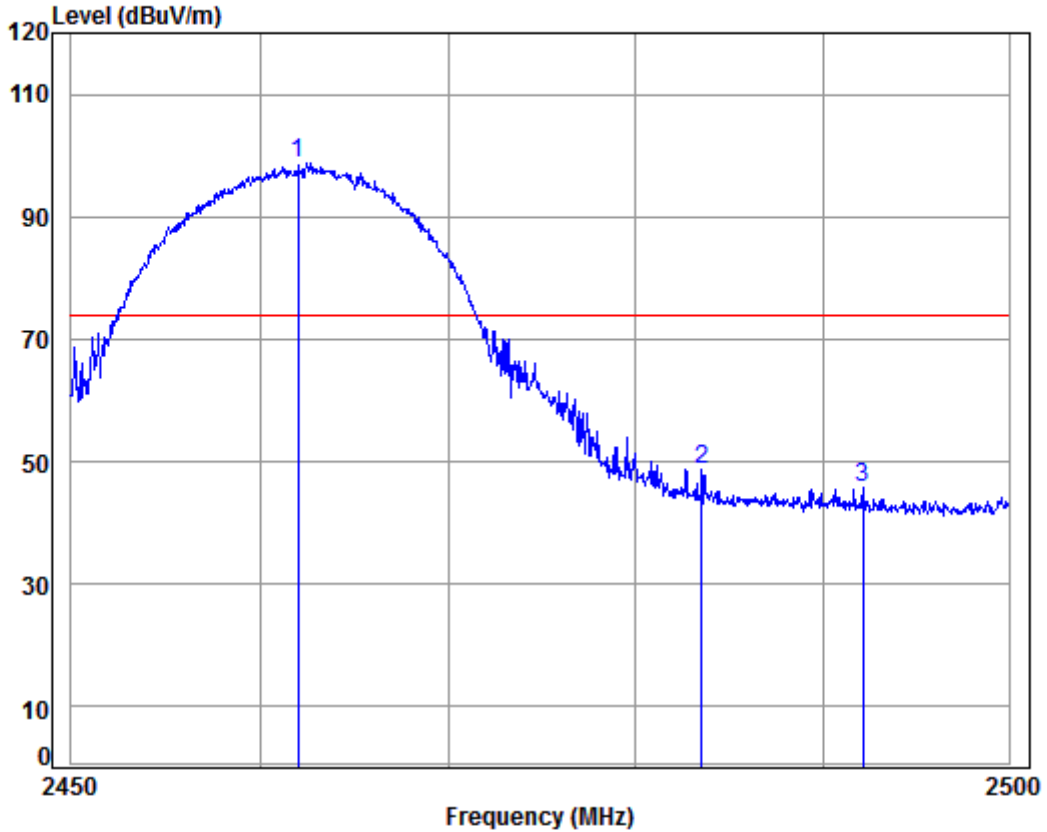


Condition: 3m HORIZONTAL
 Job No : 09712CR
 Mode : 2462 Band edge
 : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1 pp	2462.000	5.57	29.29	37.95	93.29	90.20	54.00	Average
2	2483.500	5.60	29.35	37.95	39.03	36.03	54.00	-17.97 Average
3	2485.245	5.60	29.36	37.95	39.64	36.65	54.00	-17.35 Average



Mode:c; Polarization:Vertical; Modulation Type:802.11b; bandwidth:20MHz; Channel:High

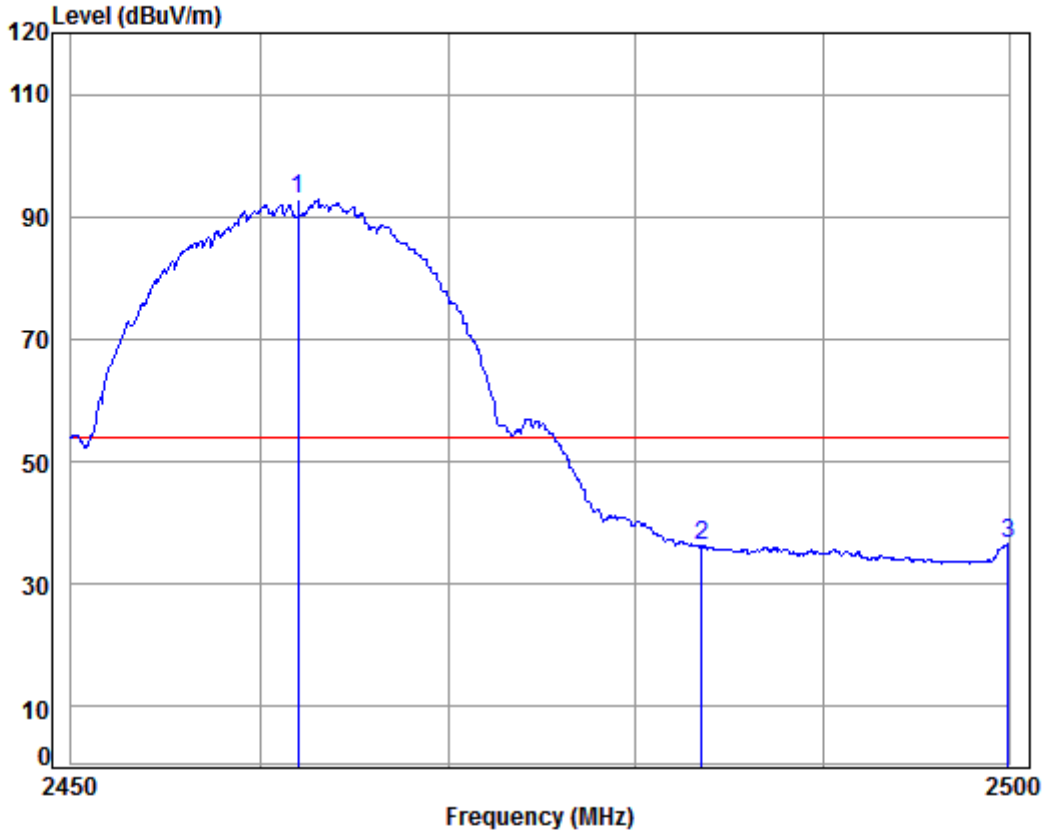


Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2462 Band edge
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1 pp	2462.000	5.57	29.29	37.95	101.73	74.00	24.64	Peak
2	2483.500	5.60	29.35	37.95	51.70	74.00	-25.30	Peak
3	2492.133	5.61	29.38	37.95	48.83	74.00	-28.13	Peak



Mode:c; Polarization:Vertical; Modulation Type:802.11b; bandwidth:20MHz; Channel:High

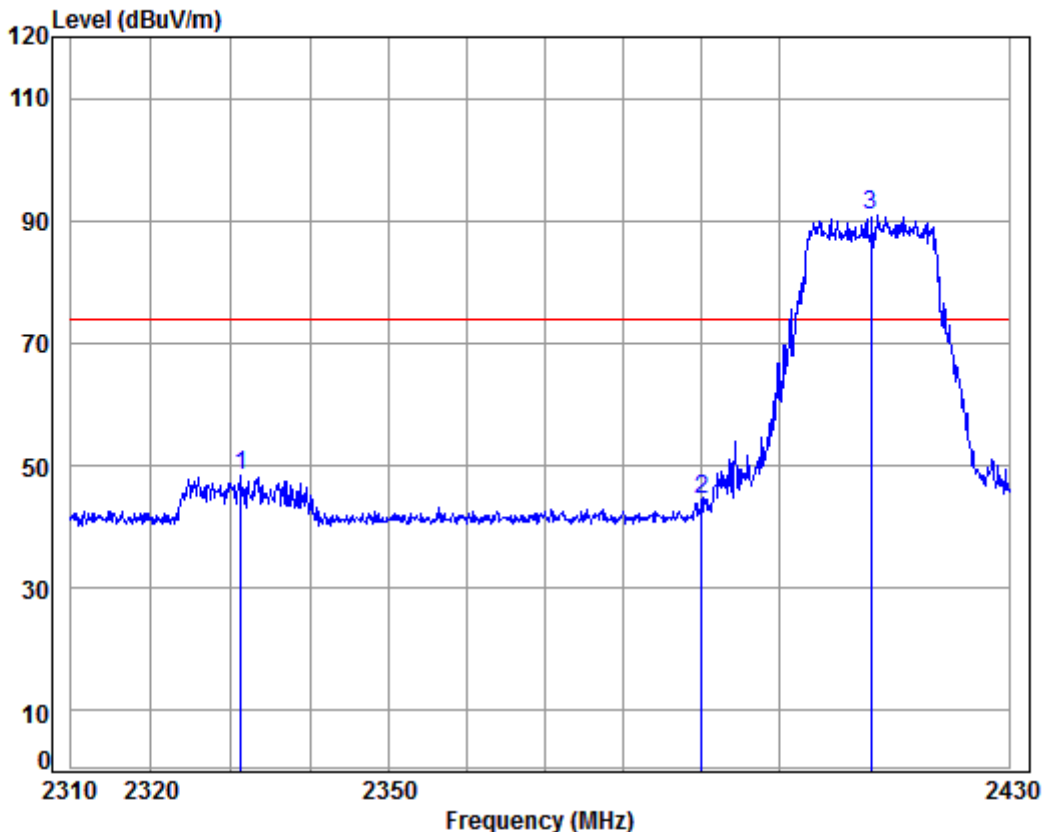


Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2462 Band edge
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1 pp	2462.000	5.57	29.29	37.95	95.83	54.00	38.74	Average
2	2483.500	5.60	29.35	37.95	39.29	54.00	-17.71	Average
3	2499.949	5.62	29.40	37.94	39.46	54.00	-17.46	Average



Mode:c; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:Low

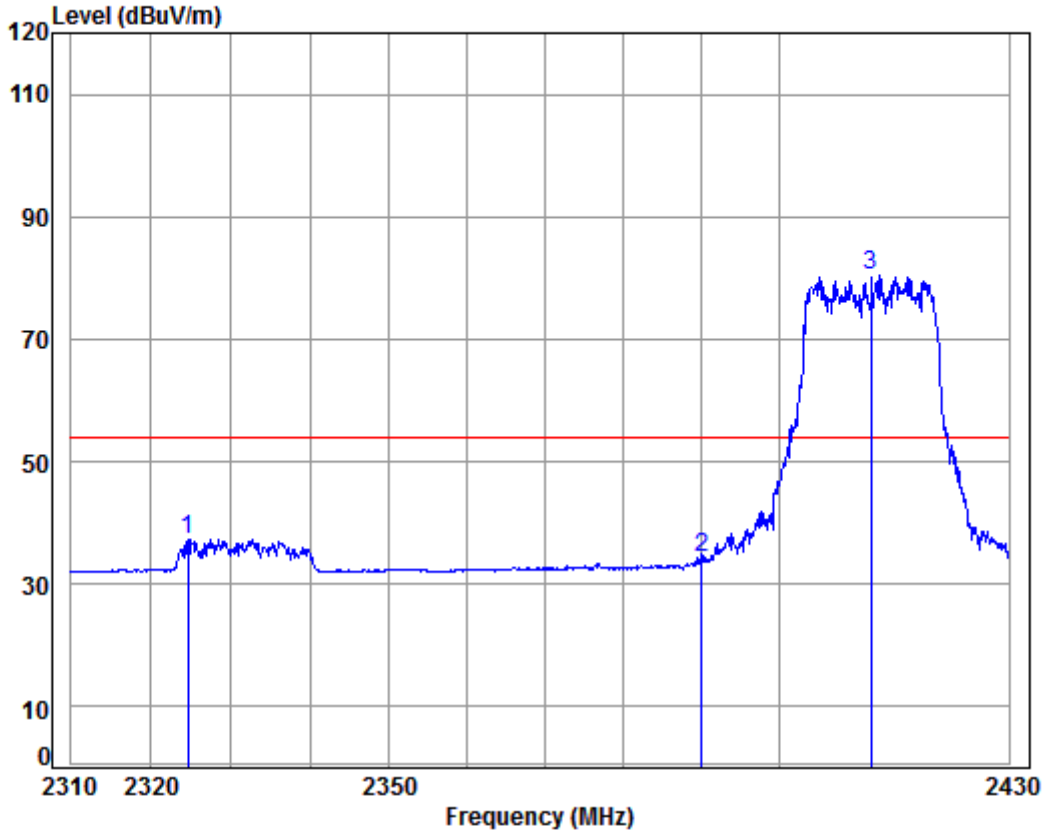


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2412 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2331.272	5.39	28.90	37.96	51.96	48.29	74.00	-25.71	peak
2	2390.000	5.47	29.08	37.96	48.02	44.61	74.00	-29.39	peak
3 pp	2412.000	5.50	29.14	37.95	94.21	90.90	74.00	16.90	peak



Mode:c; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:Low

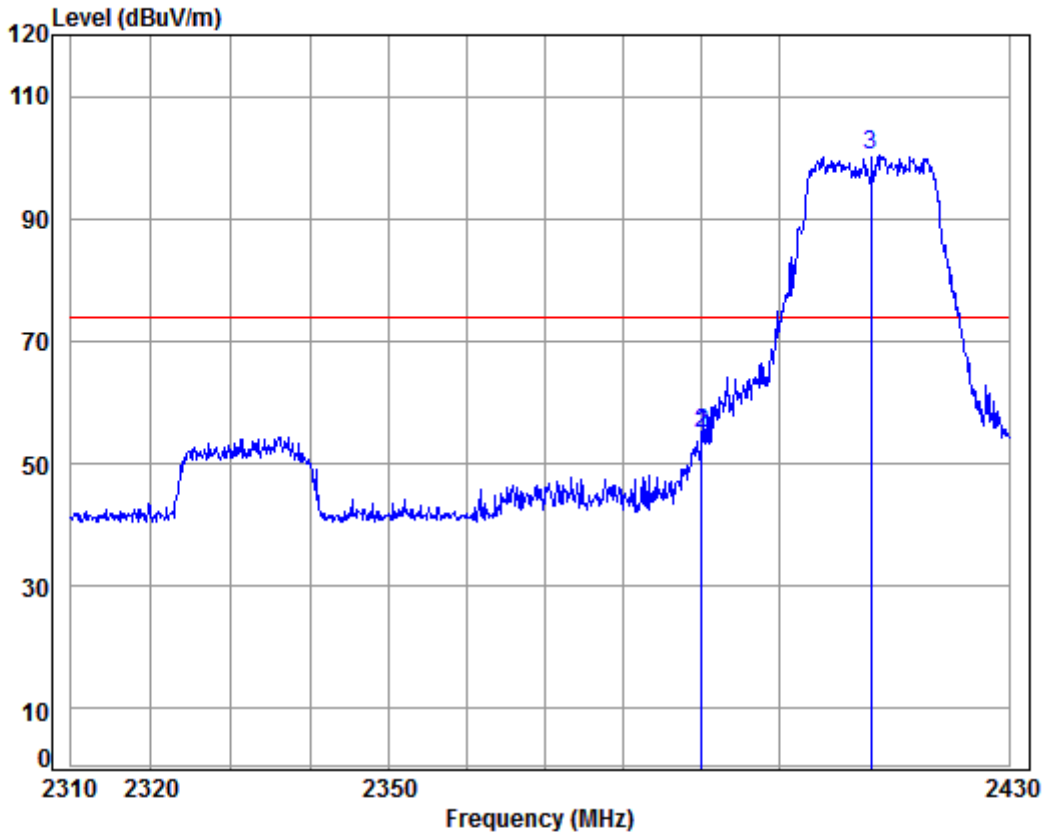


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2412 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2324.670	5.39	28.88	37.96	41.00	37.31	54.00	-16.69	Average
2	2390.000	5.47	29.08	37.96	37.86	34.45	54.00	-19.55	Average
3 pp	2412.000	5.50	29.14	37.95	83.87	80.56	54.00	26.56	Average



Mode:c; Polarization:Vertical; Modulation Type:802.11g; bandwidth:20MHz; Channel:Low

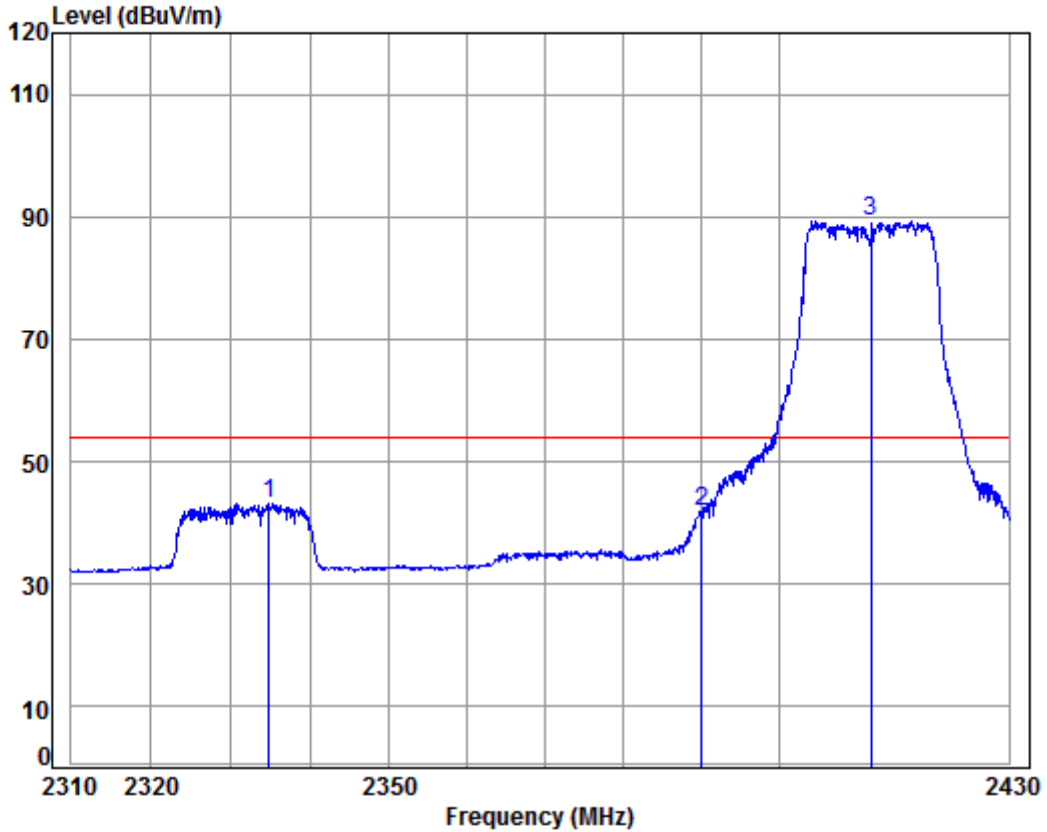


Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2412 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	5.47	29.08	37.96	58.30	54.89	74.00	-19.11	Peak
2	2390.000	5.47	29.08	37.96	58.30	54.89	74.00	-19.11	Peak
3	pp 2412.000	5.50	29.14	37.95	103.61	100.30	74.00	26.30	Peak



Mode:c; Polarization:Vertical; Modulation Type:802.11g; bandwidth:20MHz; Channel:Low

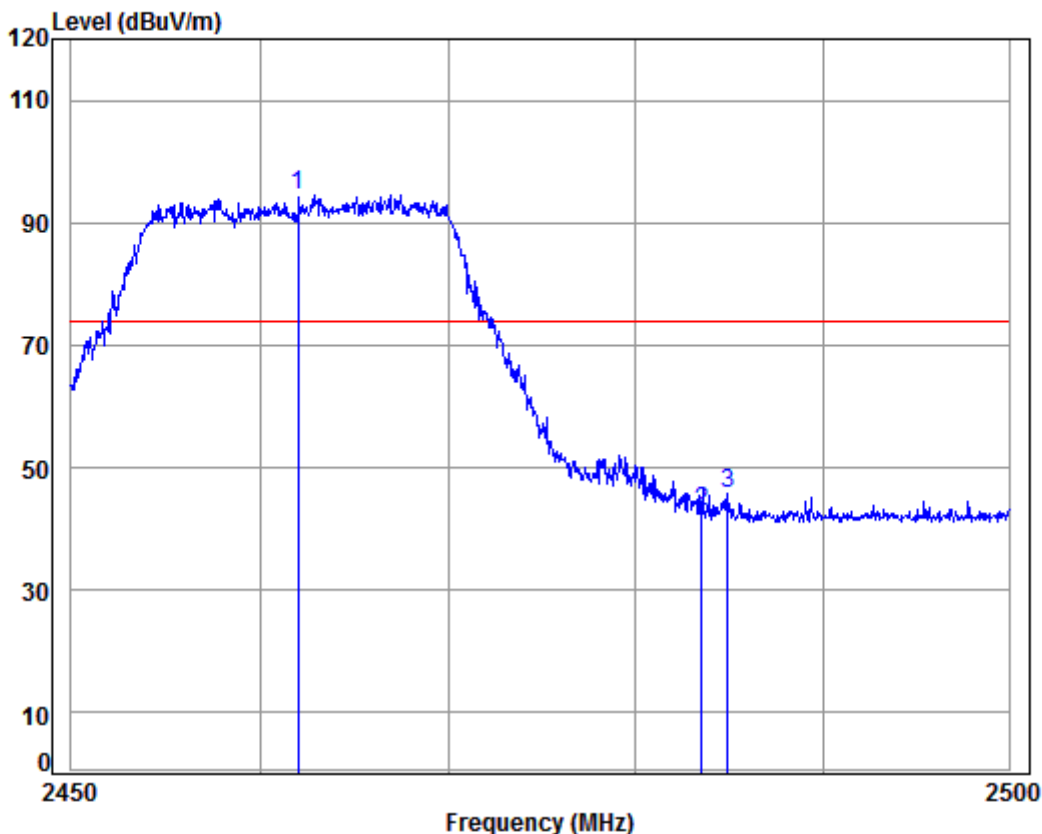


Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2412 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2334.817	5.40	28.91	37.96	46.84	43.19	54.00	-10.81	Average
2	2390.000	5.47	29.08	37.96	45.38	41.97	54.00	-12.03	Average
3 pp	2412.000	5.50	29.14	37.95	92.56	89.25	54.00	35.25	Average



Mode:c; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:High

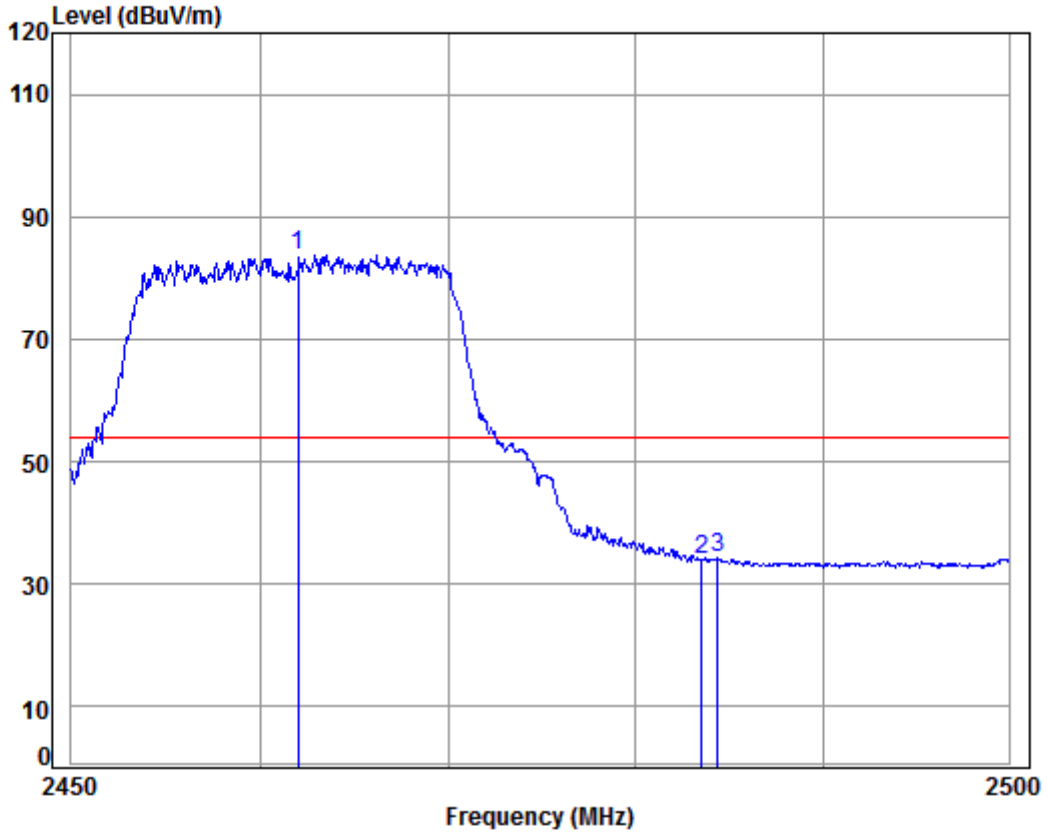


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2462 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2462.000	5.57	29.29	37.95	97.67	94.58	74.00	20.58 peak
2	2483.500	5.60	29.35	37.95	45.79	42.79	74.00	-31.21 peak
3	2484.894	5.60	29.36	37.95	48.92	45.93	74.00	-28.07 peak



Mode:c; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:High

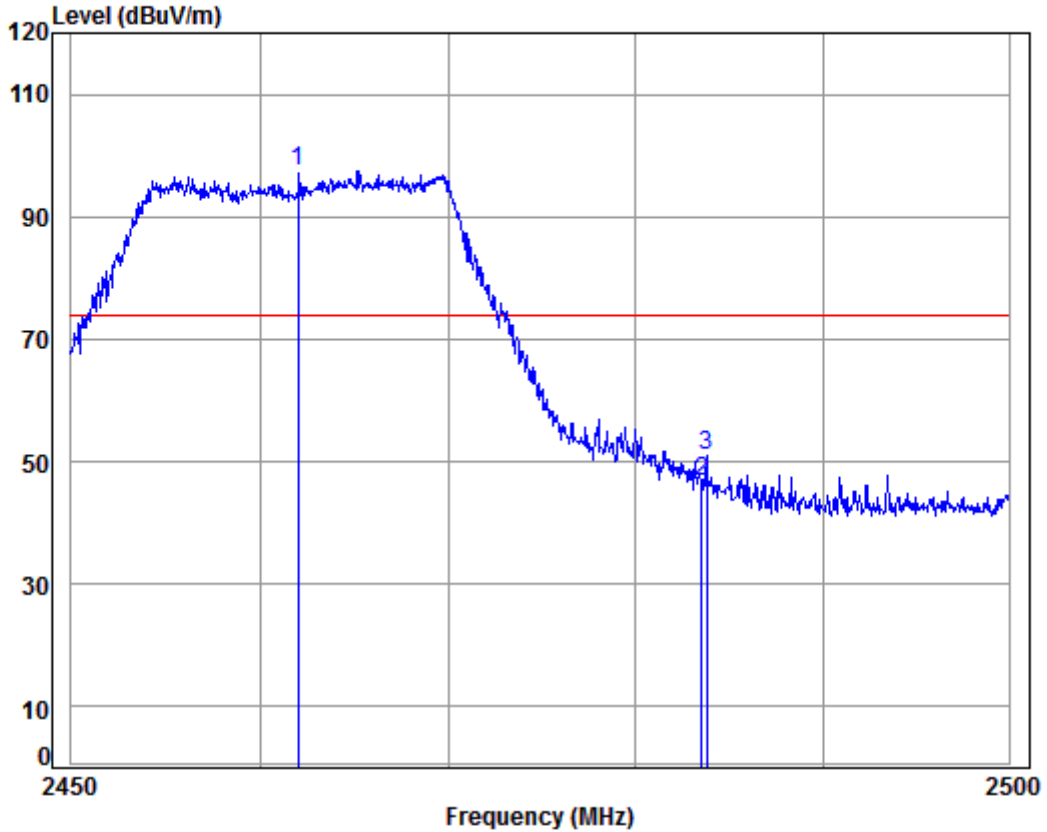


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2462 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1 pp	2462.000	5.57	29.29	37.95	86.82	83.73	54.00	29.73 Average
2	2483.500	5.60	29.35	37.95	37.12	34.12	54.00	-19.88 Average
3	2484.392	5.60	29.36	37.95	37.18	34.19	54.00	-19.81 Average



Mode:c; Polarization:Vertical; Modulation Type:802.11g; bandwidth:20MHz; Channel:High

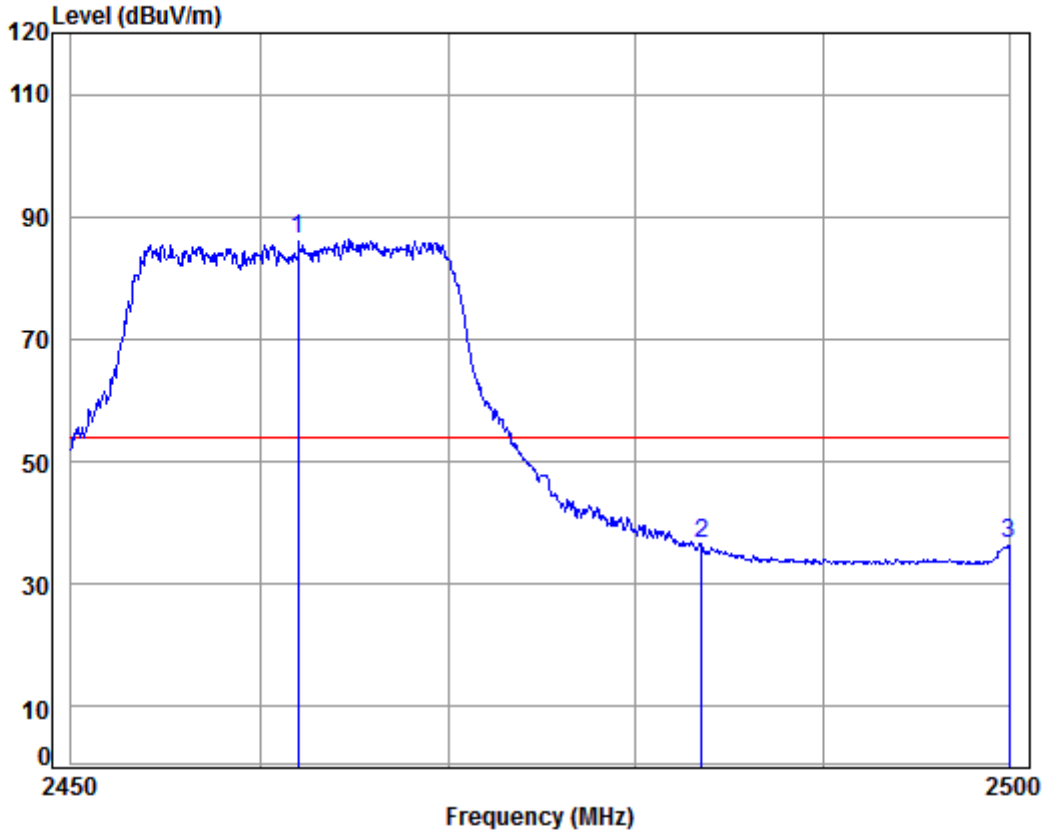


Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2462 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1 pp	2462.000	5.57	29.29	37.95	100.67	97.58	74.00	23.58 Peak
2	2483.500	5.60	29.35	37.95	49.67	46.67	74.00	-27.33 Peak
3	2483.790	5.60	29.35	37.95	54.06	51.06	74.00	-22.94 Peak



Mode:c; Polarization:Vertical; Modulation Type:802.11g; bandwidth:20MHz; Channel:High

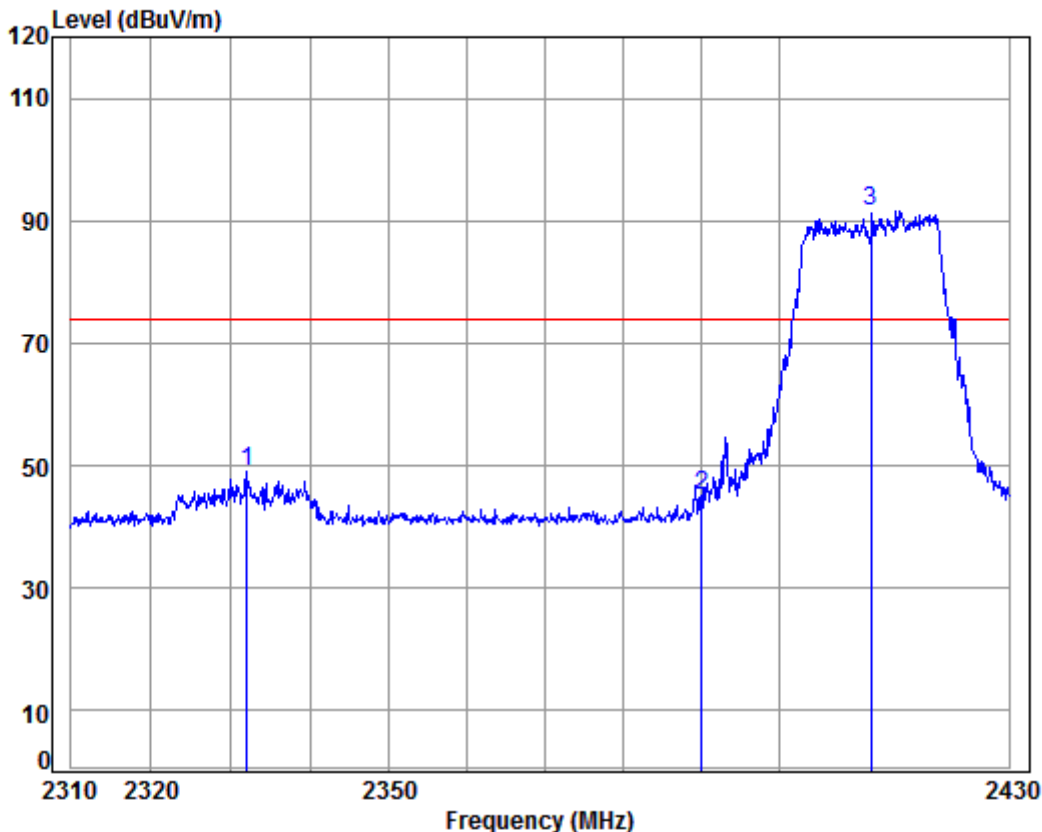


Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2462 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2462.000	5.57	29.29	37.95	89.26	86.17	54.00	32.17 Average
2	2483.500	5.60	29.35	37.95	39.54	36.54	54.00	-17.46 Average
3	2500.000	5.62	29.40	37.94	39.41	36.49	54.00	-17.51 Average



Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low

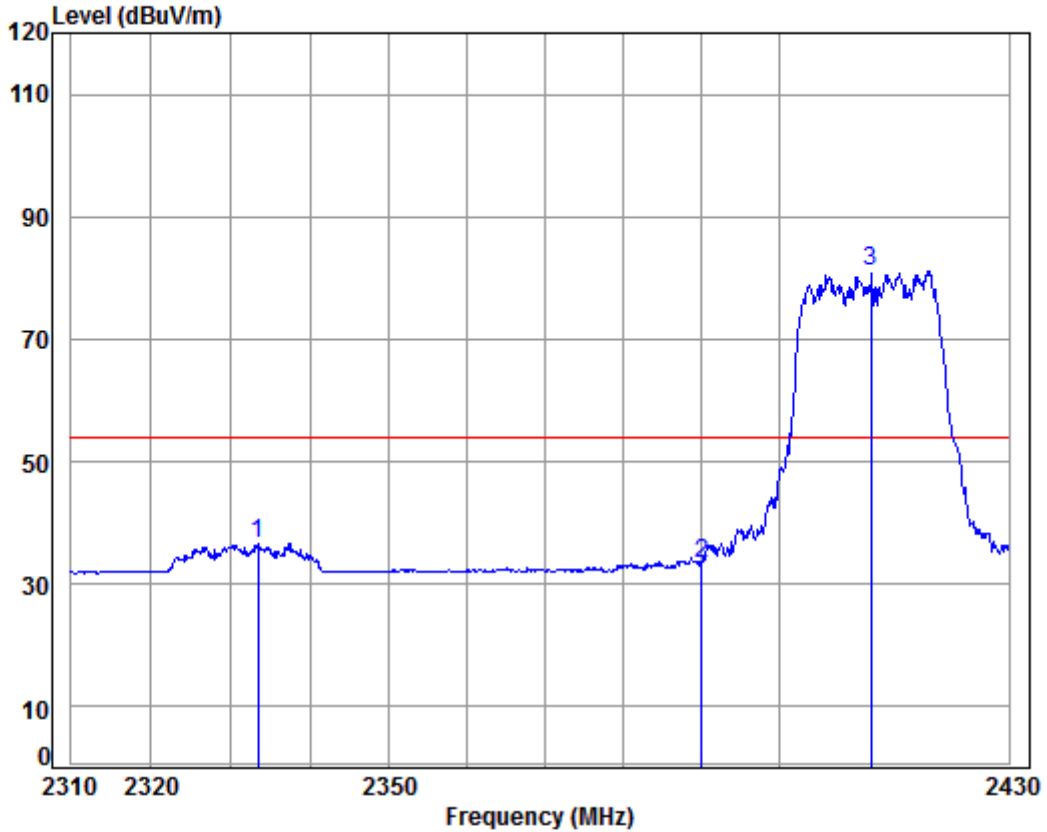


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2412 Band edge
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2332.099	5.40	28.90	37.96	52.61	48.95	74.00	-25.05	peak
2	2390.000	5.47	29.08	37.96	48.64	45.23	74.00	-28.77	peak
3 pp	2412.000	5.50	29.14	37.95	94.94	91.63	74.00	17.63	peak



Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low

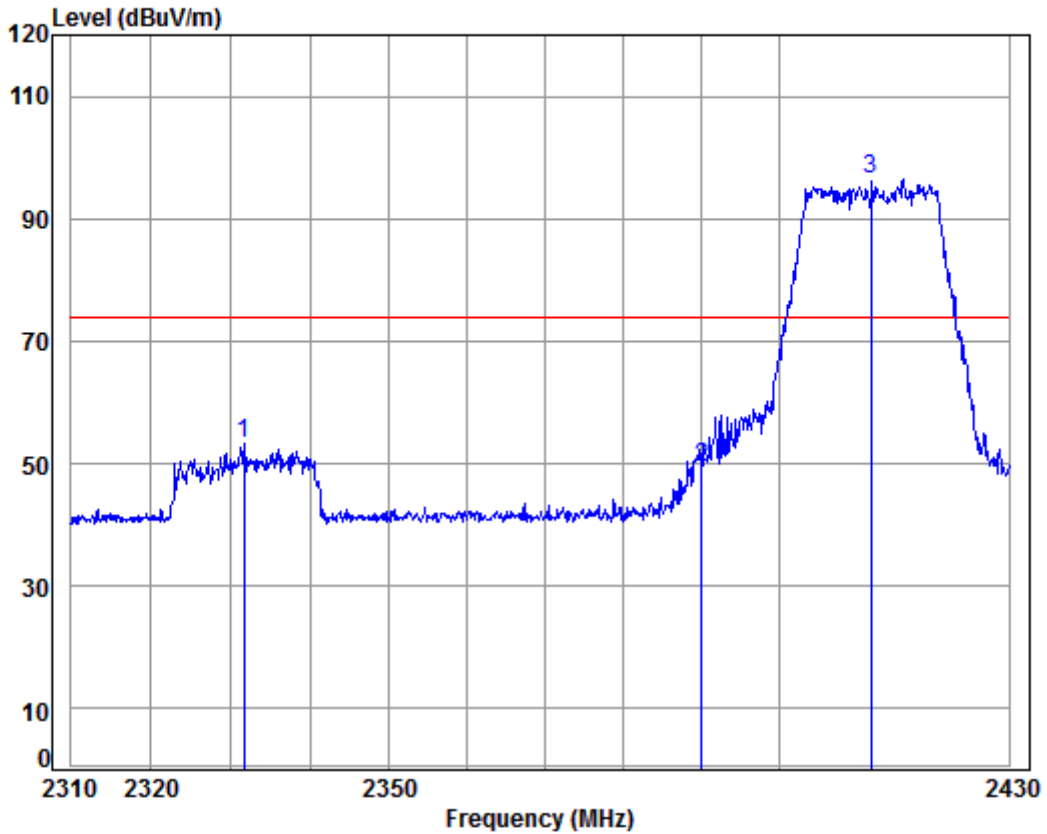


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2412 Band edge
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2333.398	5.40	28.91	37.96	40.33	36.68	54.00	-17.32	Average
2	2390.000	5.47	29.08	37.96	36.73	33.32	54.00	-20.68	Average
3 pp	2412.000	5.50	29.14	37.95	84.47	81.16	54.00	27.16	Average



Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 09712CR

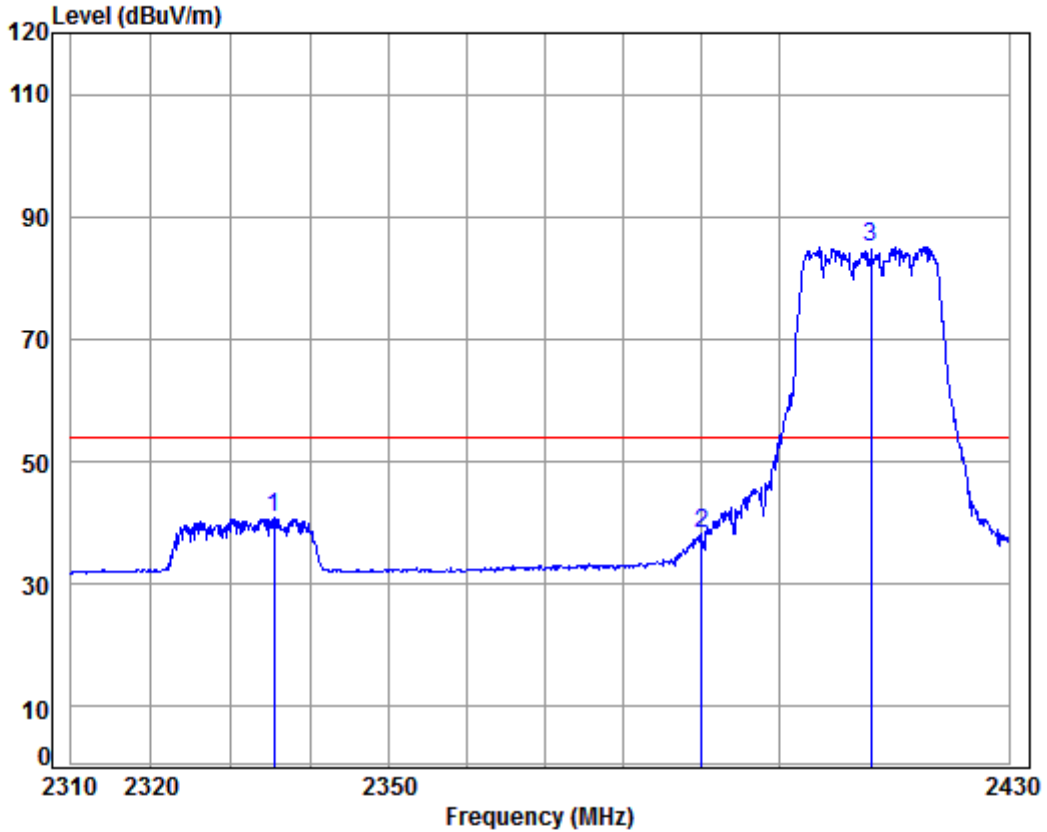
Mode : 2412 Band edge

: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2331.626	5.40	28.90	37.96	56.81	53.15	74.00	-20.85 Peak
2	2390.000	5.47	29.08	37.96	52.91	49.50	74.00	-24.50 Peak
3 pp	2412.000	5.50	29.14	37.95	99.76	96.45	74.00	22.45 Peak



Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low

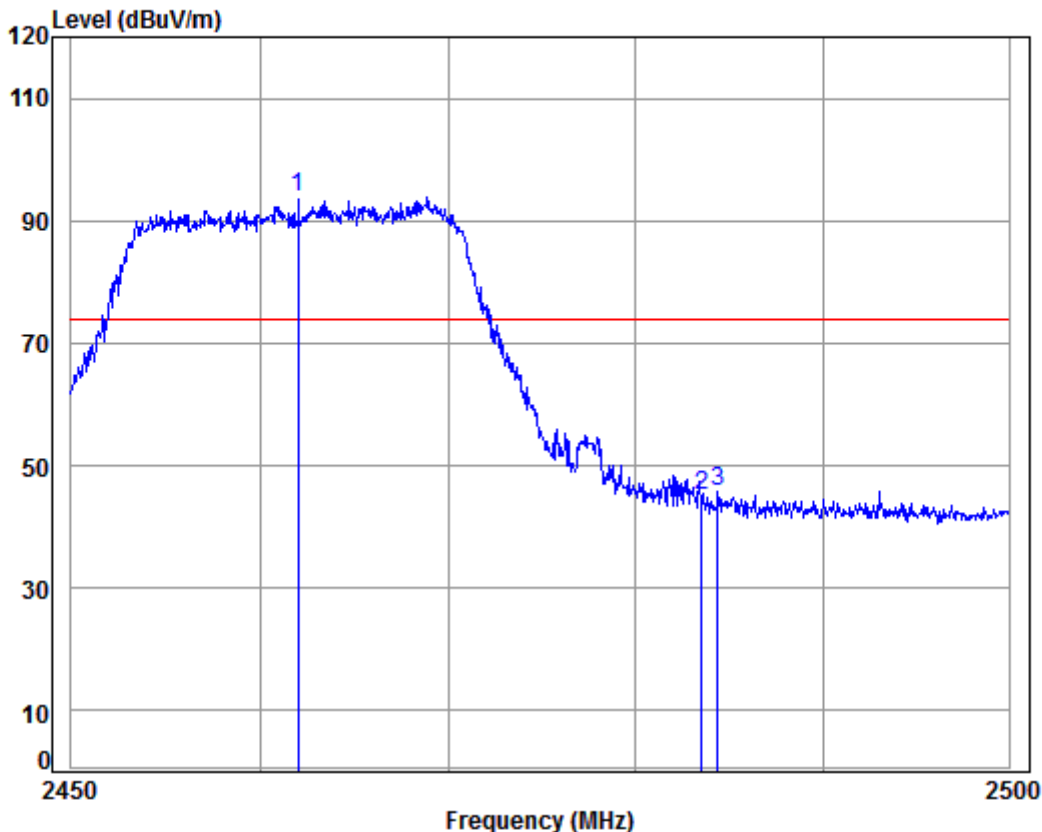


Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2412 Band edge
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2335.526	5.40	28.91	37.96	44.46	40.81	54.00	-13.19	Average
2	2390.000	5.47	29.08	37.96	41.51	38.10	54.00	-15.90	Average
3 pp	2412.000	5.50	29.14	37.95	88.48	85.17	54.00	31.17	Average



Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:High

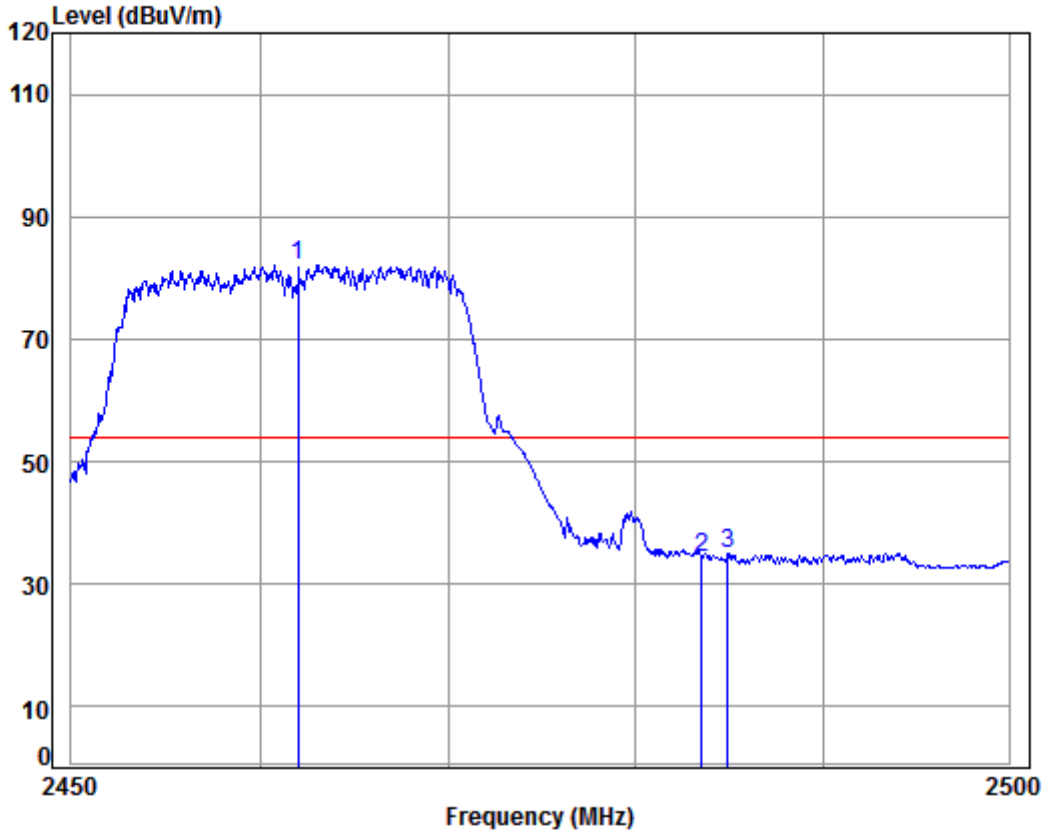


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2462 Band edge
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2462.000	5.57	29.29	37.95	96.93	93.84	74.00	19.84 peak
2	2483.500	5.60	29.35	37.95	48.16	45.16	74.00	-28.84 peak
3	2484.392	5.60	29.36	37.95	48.67	45.68	74.00	-28.32 peak



Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:High

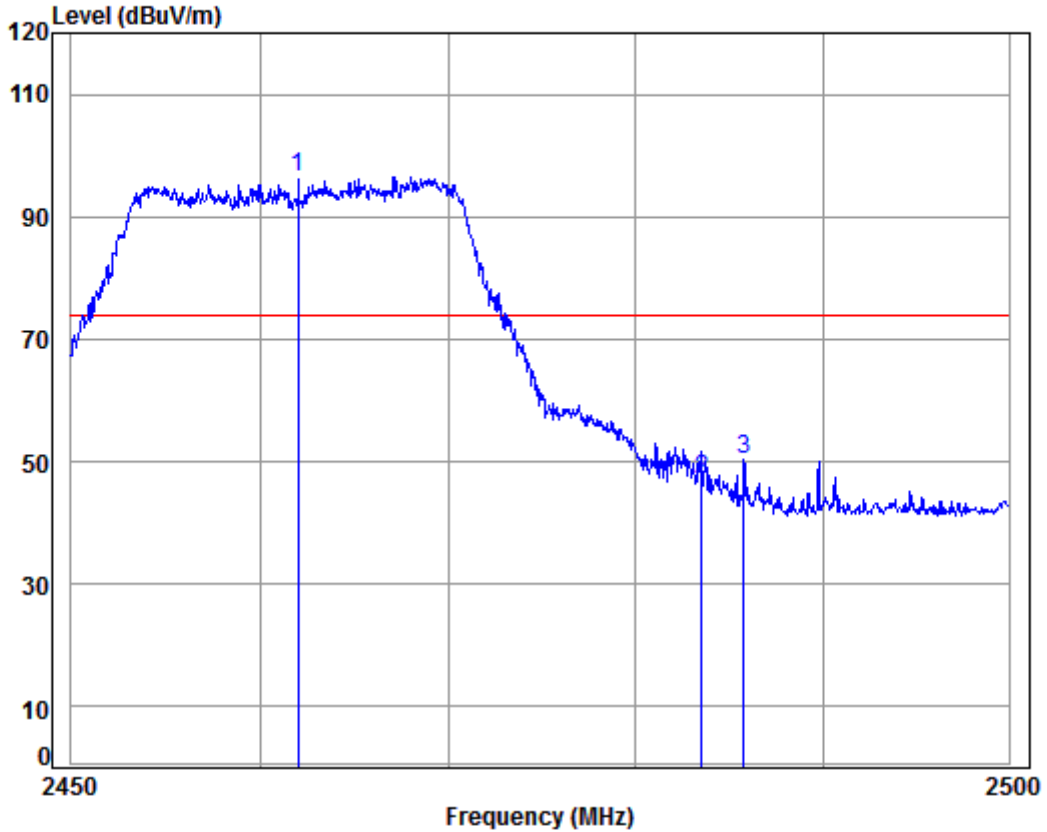


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2462 Band edge
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	5.57	29.29	37.95	85.27	82.18	54.00	28.18	Average
2	2483.500	5.60	29.35	37.95	37.30	34.30	54.00	-19.70	Average
3	2484.894	5.60	29.36	37.95	38.12	35.13	54.00	-18.87	Average



Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 09712CR

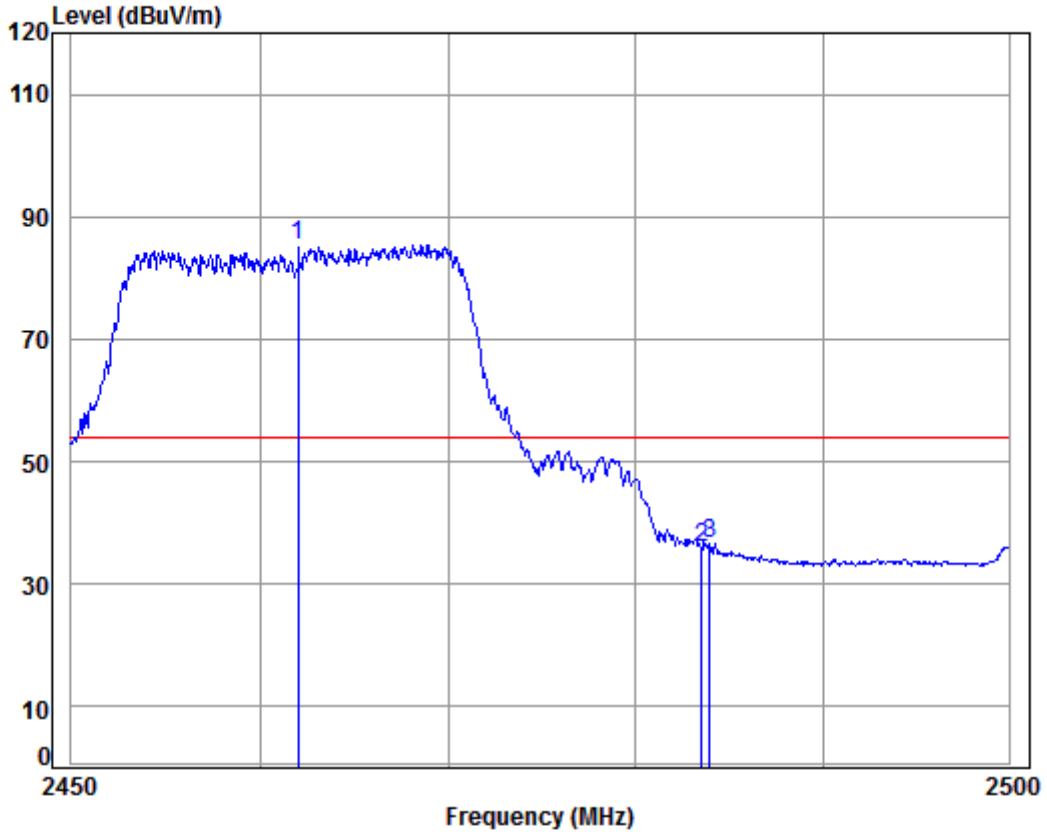
Mode : 2462 Band edge

: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1 pp	2462.000	5.57	29.29	37.95	99.69	74.00	22.60	Peak
2	2483.500	5.60	29.35	37.95	50.05	74.00	-26.95	Peak
3	2485.747	5.60	29.36	37.95	53.24	74.00	-23.75	Peak



Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2462 Band edge
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1 pp	2462.000	5.57	29.29	37.95	88.53	85.44	54.00	31.44 Average
2	2483.500	5.60	29.35	37.95	39.08	36.08	54.00	-17.92 Average
3	2483.940	5.60	29.35	37.95	39.60	36.60	54.00	-17.40 Average



7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)
Test Method: ANSI C63.10 (2013) Section 6.10.4
Measurement Distance: 3m
Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

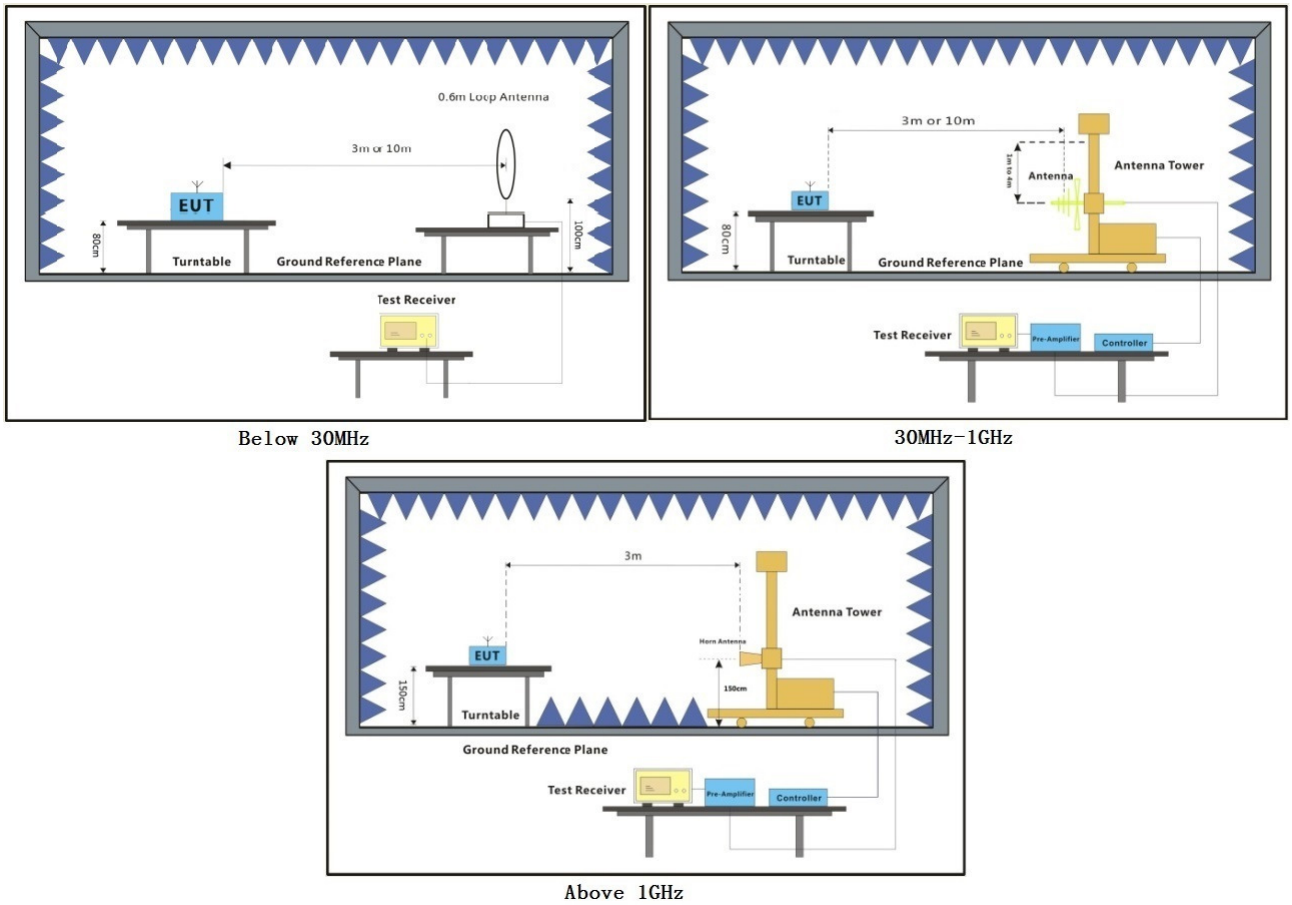
7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

Test mode c:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate. Only the data of worst case is recorded in the report.

7.7.2 Test Setup Diagram





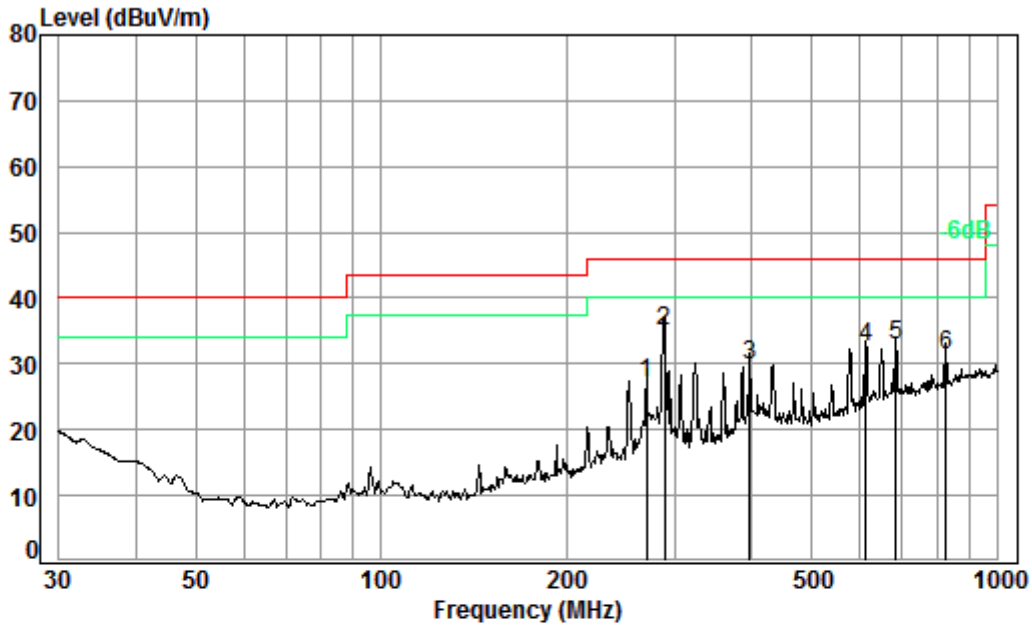
7.7.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Radiated emission below 1GHz

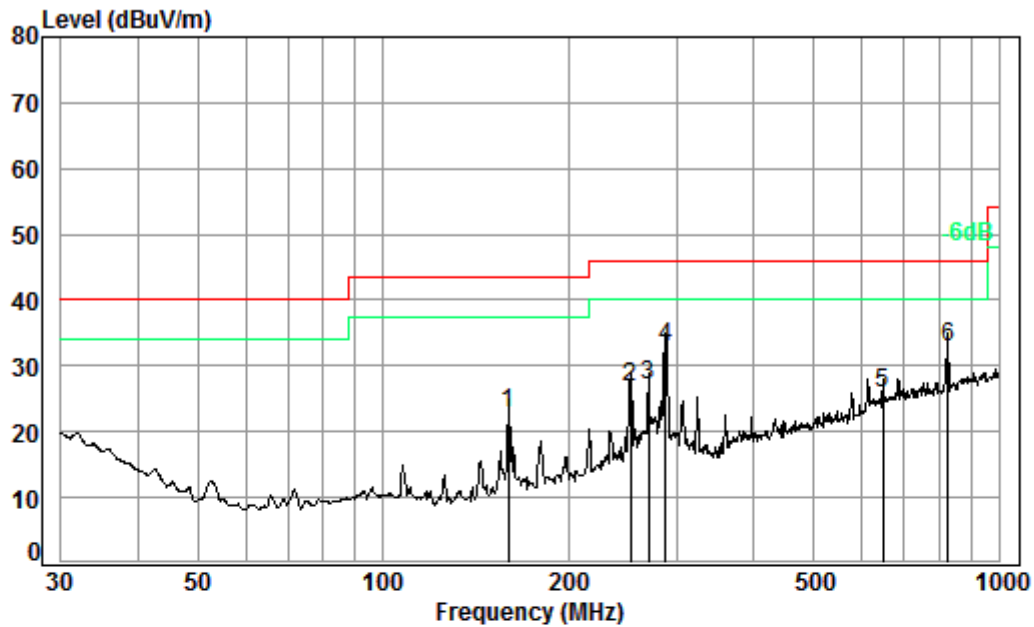
Mode:c; Polarization:Horizontal



Condition: 3m HORIZONTAL
Job No. : 09712CR
Test Mode: c

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	270.37	1.77	12.71	26.48	39.11	27.11	46.00	-18.89
2 pp	289.00	1.85	13.42	26.43	46.17	35.01	46.00	-10.99
3	396.24	2.19	16.25	27.11	38.44	29.77	46.00	-16.23
4	612.06	2.73	20.14	27.53	37.24	32.58	46.00	-13.42
5	684.75	2.87	21.48	27.43	35.85	32.77	46.00	-13.23
6	827.49	3.32	22.40	27.13	32.69	31.28	46.00	-14.72

Mode:c; Polarization:Vertical



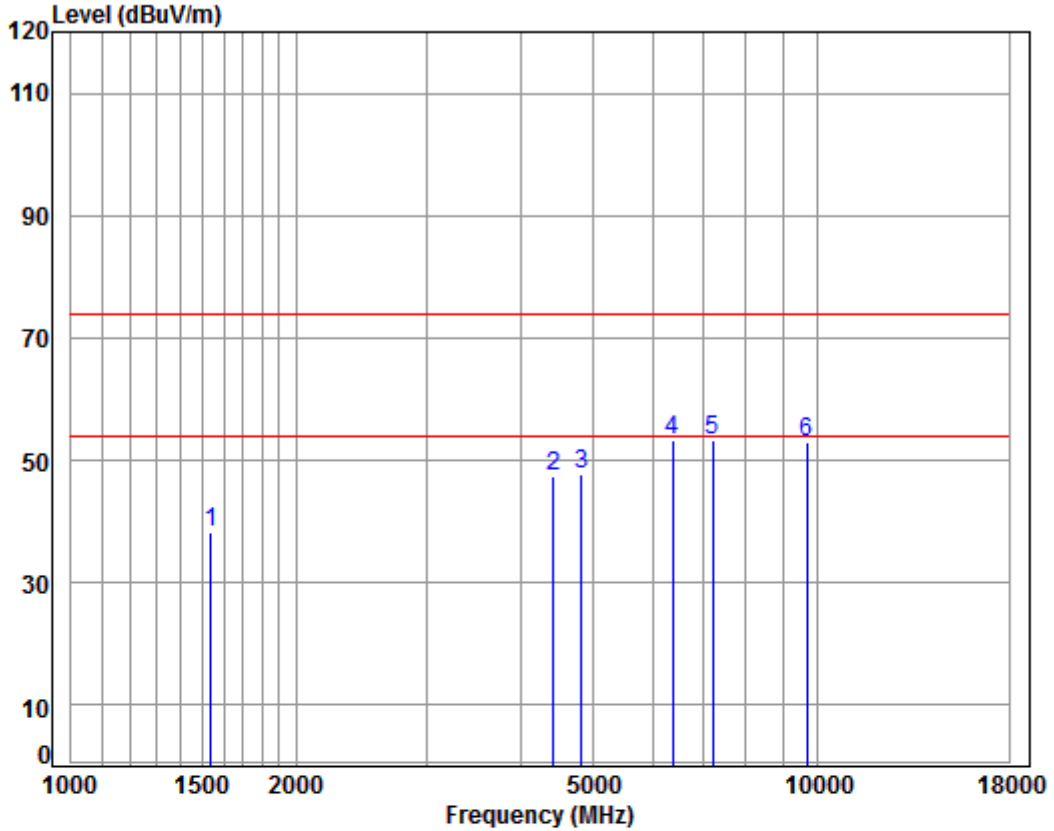
Condition: 3m VERTICAL
Job No. : 09712CR
Test Mode: c

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	159.78	1.34	9.59	26.86	38.79	22.86	43.50	-20.64
2	252.06	1.68	12.34	26.53	39.28	26.77	46.00	-19.23
3	270.37	1.77	12.71	26.48	38.94	26.94	46.00	-19.06
4 pp	287.99	1.85	13.37	26.43	44.06	32.85	46.00	-13.15
5	647.39	2.80	20.59	27.48	30.02	25.93	46.00	-20.07
6	827.49	3.32	22.40	27.13	34.24	32.83	46.00	-13.17



Transmitter emission above 1GHz

Mode:c; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:Low

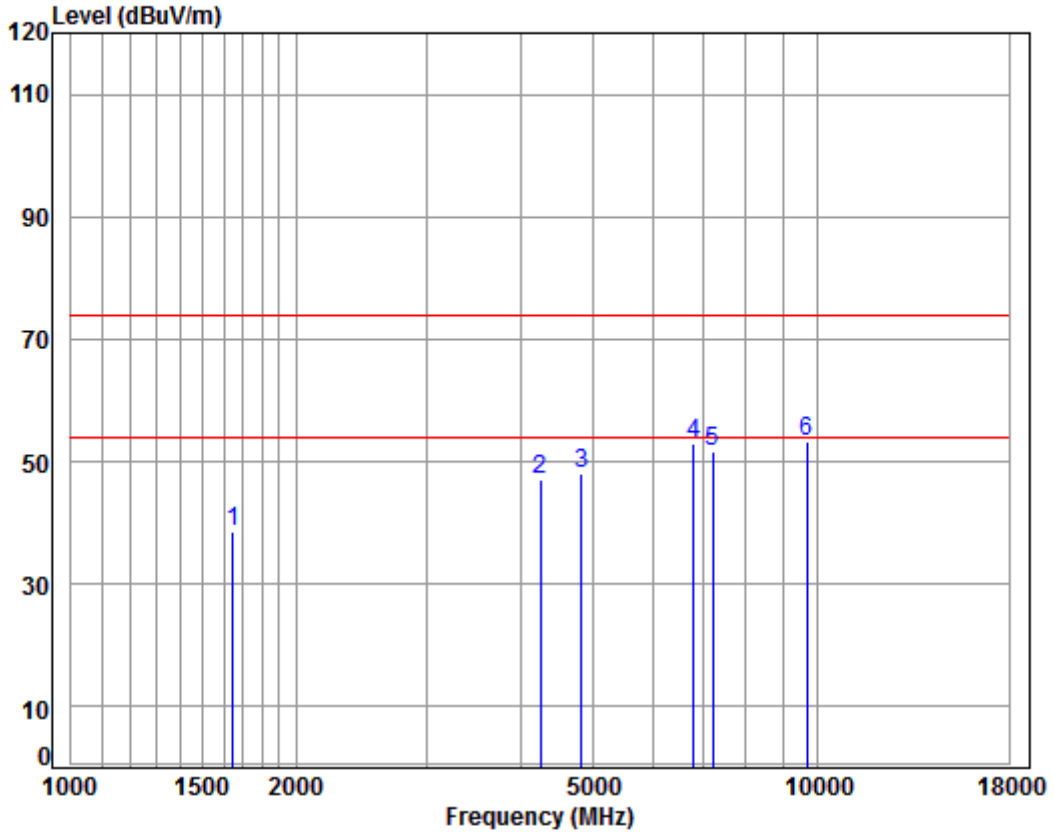


Condition: 3m HORIZONTAL
Job No : 09712RG
Mode : 2412 TX RSE
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1538.281	5.43	25.98	38.04	44.97	38.34	74.00	-35.66	peak
2	4417.841	7.47	33.60	38.22	44.52	47.37	74.00	-26.63	peak
3	4824.000	7.91	34.19	38.42	44.05	47.73	74.00	-26.27	peak
4 pp	6377.195	11.31	35.00	37.90	44.85	53.26	74.00	-20.74	peak
5	7236.000	10.07	36.40	37.08	43.82	53.21	74.00	-20.79	peak
6	9648.000	10.77	37.53	35.07	39.78	53.01	74.00	-20.99	peak



Mode:c; Polarization:Vertical; Modulation Type:802.11b; bandwidth:20MHz; Channel:Low

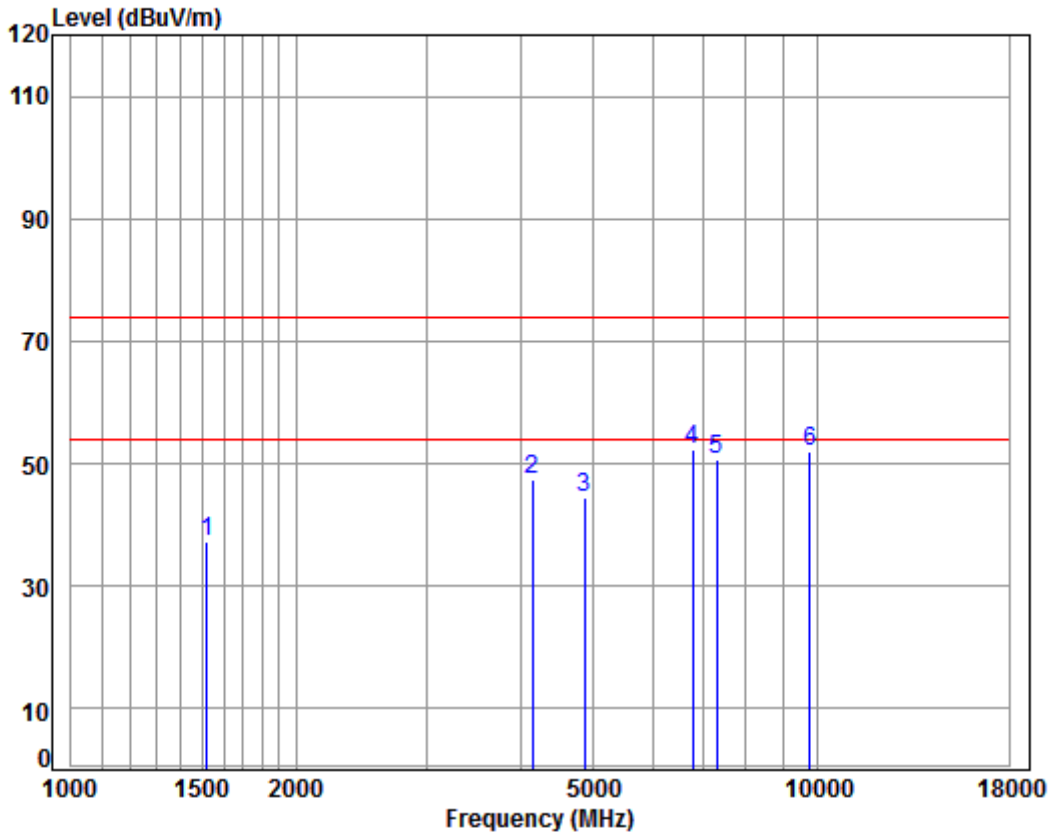


Condition: 3m VERTICAL
Job No : 09712RG
Mode : 2412 TX RSE
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	5.29	26.46	38.03	44.72	38.44	74.00	-35.56	peak
2	4254.921	7.28	33.60	38.14	44.50	47.24	74.00	-26.76	peak
3	4824.000	7.91	34.19	38.42	44.36	48.04	74.00	-25.96	peak
4	6815.551	10.64	36.00	37.47	43.88	53.05	74.00	-20.95	peak
5	7236.000	10.07	36.40	37.08	42.40	51.79	74.00	-22.21	peak
6 pp	9648.000	10.77	37.53	35.07	40.04	53.27	74.00	-20.73	peak



Mode:c; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:middle

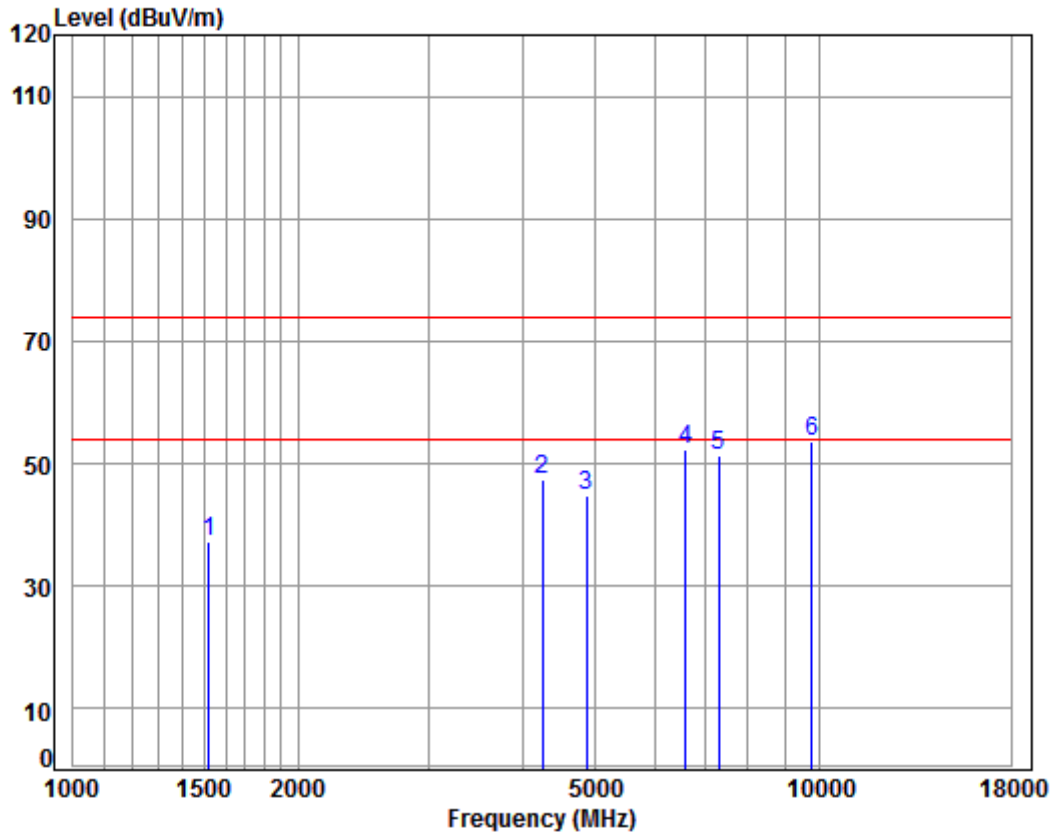


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2437 TX RSE
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1520.598	5.45	25.89	38.04	43.88	37.18	74.00	-36.82	peak
2	4145.664	7.16	33.60	38.08	44.76	47.44	74.00	-26.56	peak
3	4874.000	7.96	34.28	38.44	40.79	44.59	74.00	-29.41	peak
4 pp	6795.879	10.69	35.94	37.49	43.21	52.35	74.00	-21.65	peak
5	7311.000	10.05	36.37	37.01	41.33	50.74	74.00	-23.26	peak
6	9748.000	10.82	37.55	35.02	38.49	51.84	74.00	-22.16	peak



Mode:c; Polarization:Vertical; Modulation Type:802.11b; bandwidth:20MHz; Channel:middle

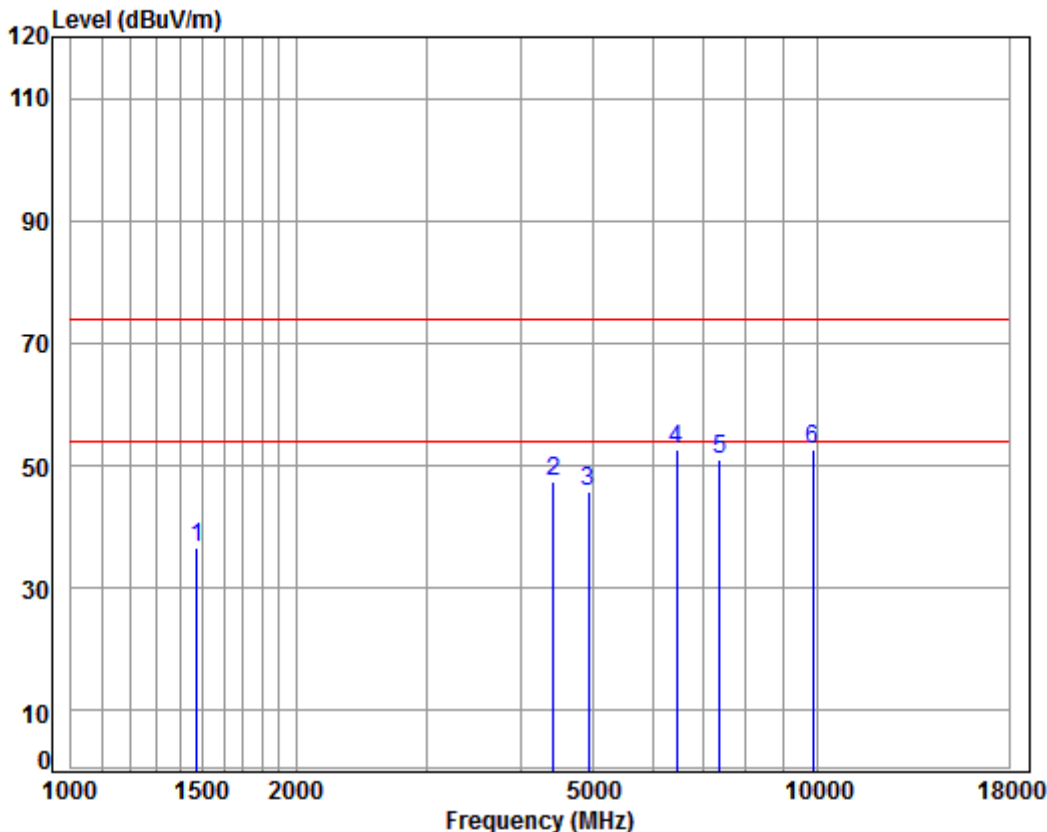


Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2437 TX RSE
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1520.598	5.45	25.89	38.04	43.99	37.29	74.00	-36.71	peak
2	4242.641	7.27	33.60	38.13	44.65	47.39	74.00	-26.61	peak
3	4874.000	7.96	34.28	38.44	41.12	44.92	74.00	-29.08	peak
4	6602.265	11.24	35.39	37.68	43.26	52.21	74.00	-21.79	peak
5	7311.000	10.05	36.37	37.01	41.96	51.37	74.00	-22.63	peak
6 pp	9748.000	10.82	37.55	35.02	40.30	53.65	74.00	-20.35	peak



Mode:c; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:High

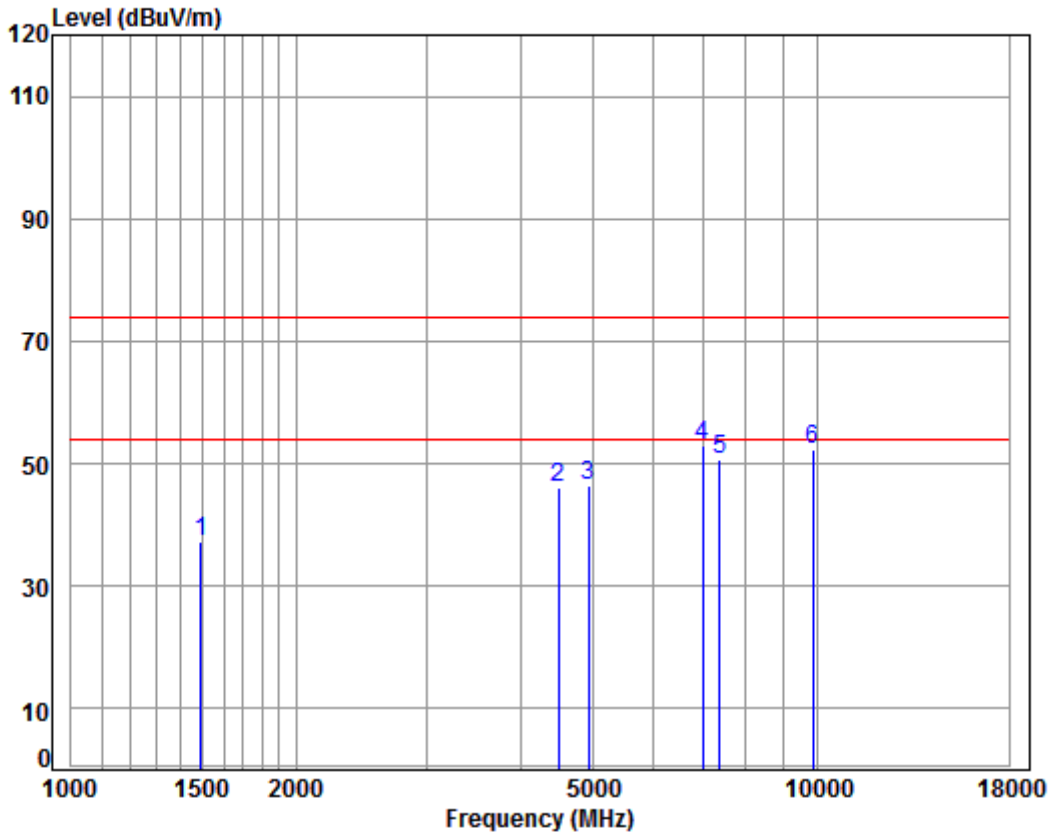


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2462 TX RSE
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1473.013	5.39	25.69	38.04	43.74	36.78	74.00	-37.22	peak
2	4417.841	7.47	33.60	38.22	44.44	47.29	74.00	-26.71	peak
3	4924.000	8.01	34.37	38.47	42.00	45.91	74.00	-28.09	peak
4 pp	6470.026	11.48	35.08	37.81	44.00	52.75	74.00	-21.25	peak
5	7386.000	10.03	36.34	36.94	41.43	50.86	74.00	-23.14	peak
6	9848.000	10.87	37.57	34.97	39.17	52.64	74.00	-21.36	peak



Mode:c; Polarization:Vertical; Modulation Type:802.11b; bandwidth:20MHz; Channel:High

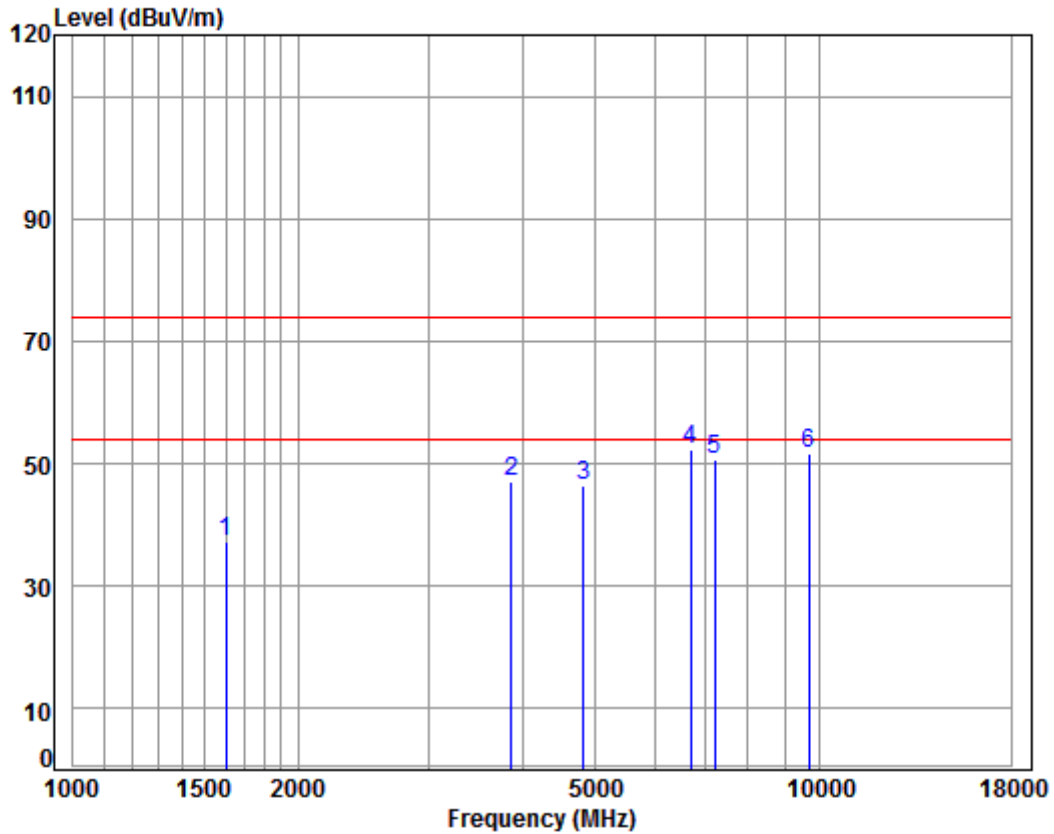


Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2462 TX RSE
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1494.455	5.46	25.78	38.04	44.05	37.25	74.00	-36.75 peak
2	4495.125	7.55	33.60	38.26	43.14	46.03	74.00	-27.97 peak
3	4924.000	8.01	34.37	38.47	42.38	46.29	74.00	-27.71 peak
4 pp	6995.172	10.14	36.49	37.30	43.52	52.85	74.00	-21.15 peak
5	7386.000	10.03	36.34	36.94	41.11	50.54	74.00	-23.46 peak
6	9848.000	10.87	37.57	34.97	38.69	52.16	74.00	-21.84 peak



Mode:c; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:Low

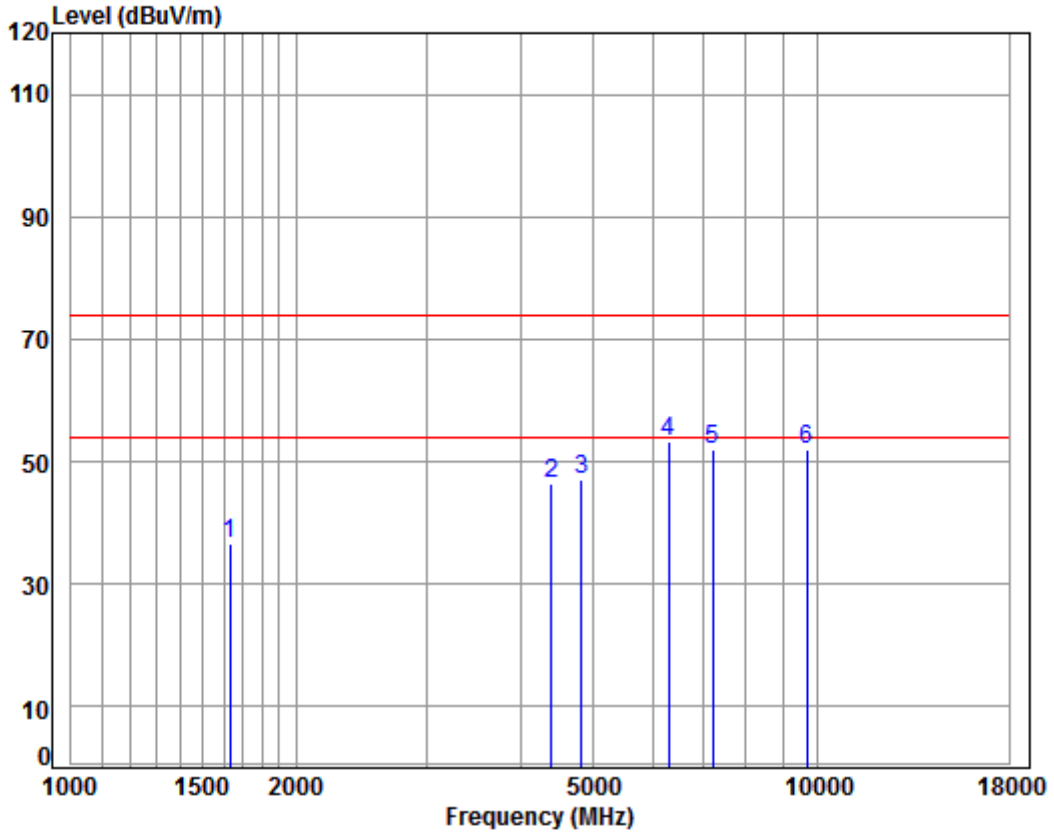


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2412 TX RSE
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.804	5.35	26.26	38.03	43.77	37.35	74.00	-36.65	peak
2	3856.668	6.84	33.22	37.99	45.12	47.19	74.00	-26.81	peak
3	4824.000	7.91	34.19	38.42	42.67	46.35	74.00	-27.65	peak
4 pp	6717.762	10.91	35.72	37.57	43.13	52.19	74.00	-21.81	peak
5	7236.000	10.07	36.40	37.08	41.16	50.55	74.00	-23.45	peak
6	9648.000	10.77	37.53	35.07	38.57	51.80	74.00	-22.20	peak



Mode:c; Polarization:Vertical; Modulation Type:802.11g; bandwidth:20MHz; Channel:Low

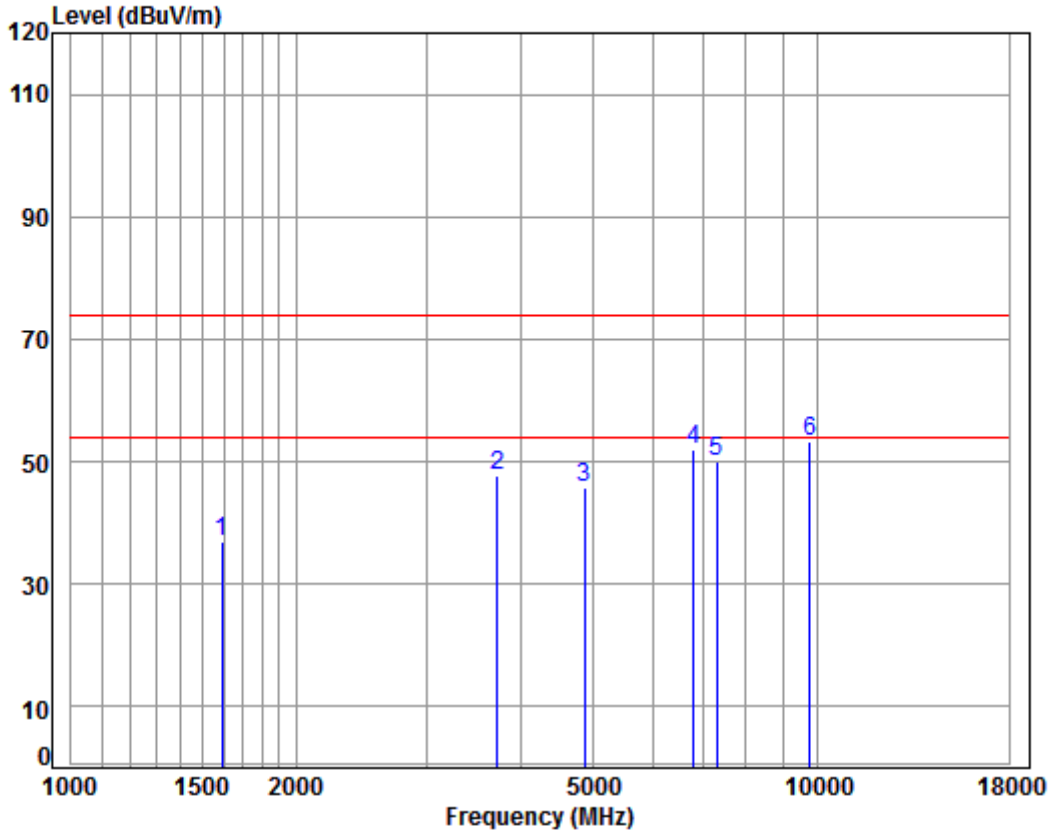


Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2412 TX RSE
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1629.825	5.31	26.38	38.03	42.90	36.56	74.00	-37.44	peak
2	4392.376	7.44	33.60	38.21	43.51	46.34	74.00	-27.66	peak
3	4824.000	7.91	34.19	38.42	43.31	46.99	74.00	-27.01	peak
4 pp	6303.890	11.17	34.95	37.98	45.01	53.15	74.00	-20.85	peak
5	7236.000	10.07	36.40	37.08	42.45	51.84	74.00	-22.16	peak
6	9648.000	10.77	37.53	35.07	38.69	51.92	74.00	-22.08	peak



Mode:c; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:middle

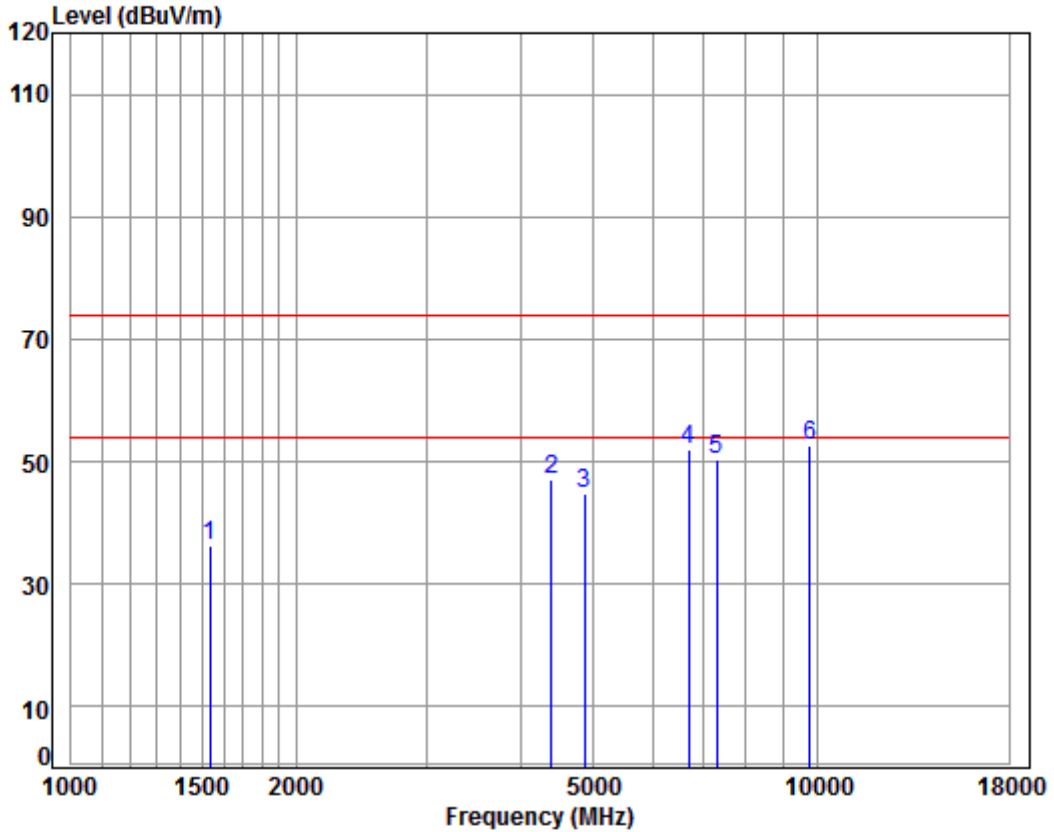


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2437 TX RSE
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	5.36	26.22	38.03	43.33	36.88	74.00	-37.12	peak
2	3725.195	6.70	32.85	37.98	46.29	47.86	74.00	-26.14	peak
3	4874.000	7.96	34.28	38.44	41.85	45.65	74.00	-28.35	peak
4	6815.551	10.64	36.00	37.47	42.89	52.06	74.00	-21.94	peak
5	7311.000	10.05	36.37	37.01	40.70	50.11	74.00	-23.89	peak
6 pp	9748.000	10.82	37.55	35.02	39.91	53.26	74.00	-20.74	peak



Mode:c; Polarization:Vertical; Modulation Type:802.11g; bandwidth:20MHz; Channel:middle

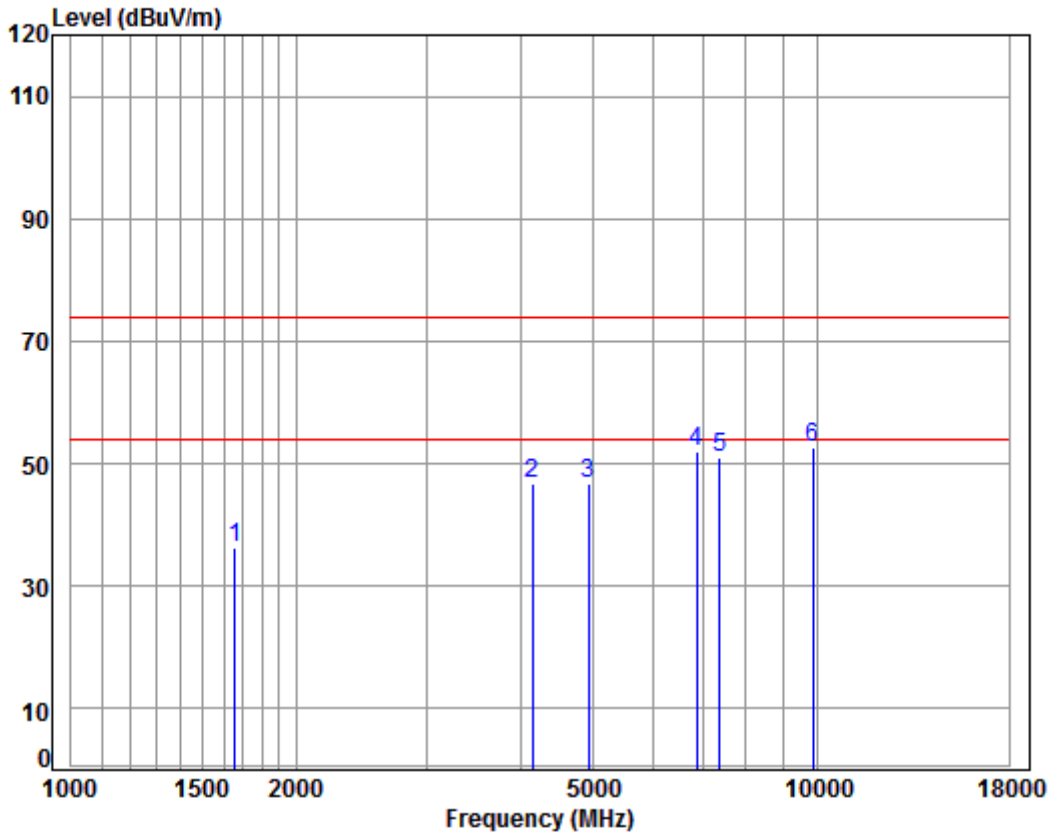


Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2437 TX RSE
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1533.841	5.44	25.96	38.04	43.01	36.37	74.00	-37.63	peak
2	4392.376	7.44	33.60	38.21	44.37	47.20	74.00	-26.80	peak
3	4874.000	7.96	34.28	38.44	40.91	44.71	74.00	-29.29	peak
4	6717.762	10.91	35.72	37.57	42.88	51.94	74.00	-22.06	peak
5	7311.000	10.05	36.37	37.01	41.03	50.44	74.00	-23.56	peak
6 pp	9748.000	10.82	37.55	35.02	39.22	52.57	74.00	-21.43	peak



Mode:c; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:High

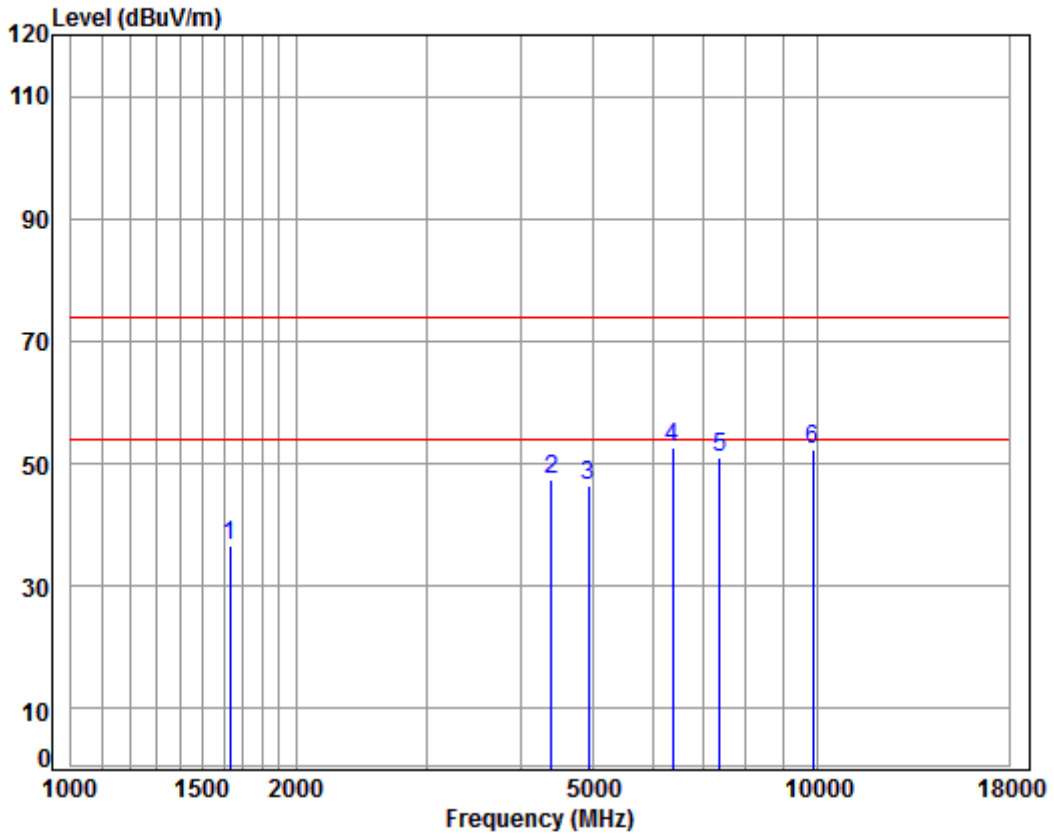


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2462 TX RSE
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	5.28	26.50	38.03	42.64	36.39	74.00	-37.61	peak
2	4145.664	7.16	33.60	38.08	43.97	46.65	74.00	-27.35	peak
3	4924.000	8.01	34.37	38.47	42.74	46.65	74.00	-27.35	peak
4	6874.906	10.47	36.16	37.42	42.73	51.94	74.00	-22.06	peak
5	7386.000	10.03	36.34	36.94	41.70	51.13	74.00	-22.87	peak
6 pp	9848.000	10.87	37.57	34.97	39.11	52.58	74.00	-21.42	peak



Mode:c; Polarization:Vertical; Modulation Type:802.11g; bandwidth:20MHz; Channel:High

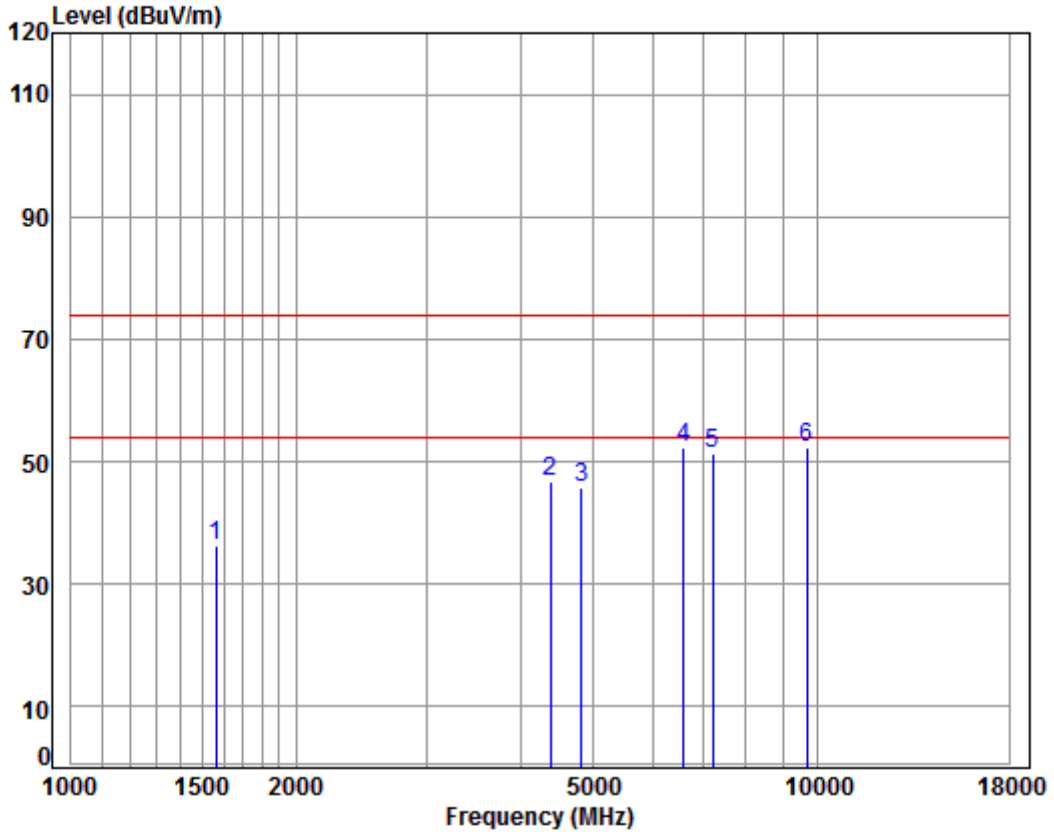


Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2462 TX RSE
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1629.825	5.31	26.38	38.03	42.88	36.54	74.00	-37.46	peak
2	4392.376	7.44	33.60	38.21	44.44	47.27	74.00	-26.73	peak
3	4924.000	8.01	34.37	38.47	42.47	46.38	74.00	-27.62	peak
4 pp	6395.654	11.34	35.02	37.89	44.14	52.61	74.00	-21.39	peak
5	7386.000	10.03	36.34	36.94	41.59	51.02	74.00	-22.98	peak
6	9848.000	10.87	37.57	34.97	38.70	52.17	74.00	-21.83	peak



Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 09712CR

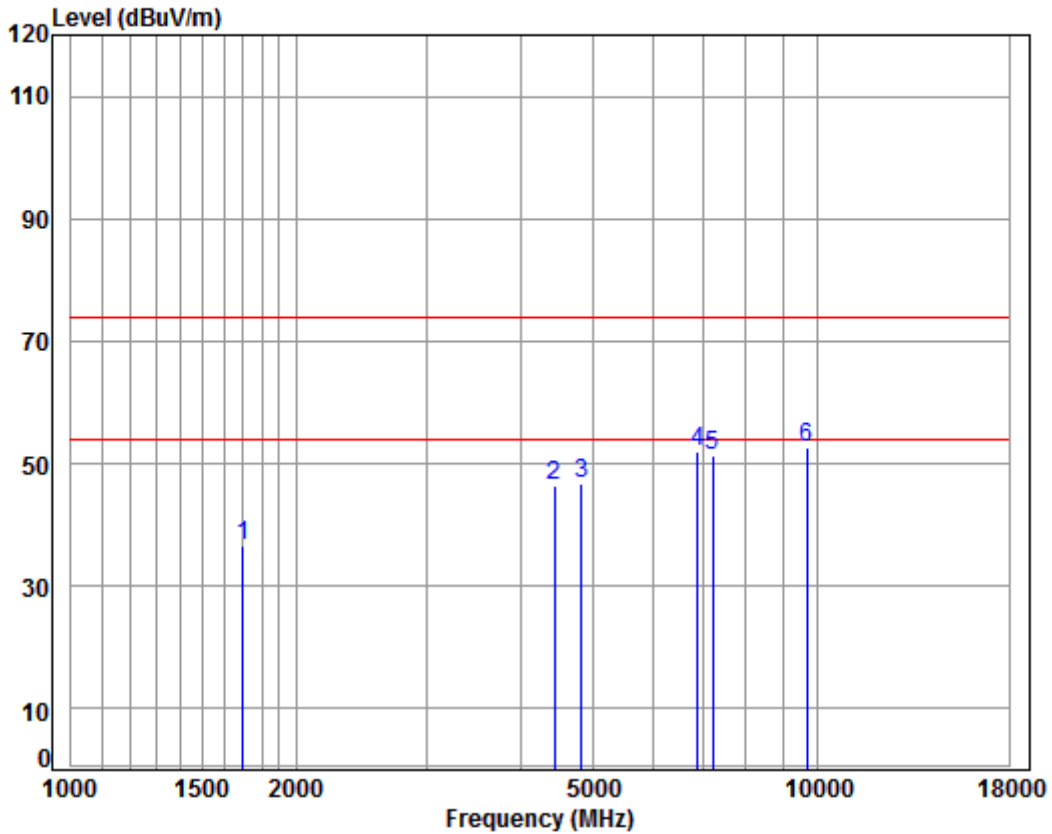
Mode : 2412 TX RSE

: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1565.191	5.39	26.10	38.04	42.93	36.38	74.00	-37.62	peak
2	4379.699	7.43	33.60	38.20	44.04	46.87	74.00	-27.13	peak
3	4824.000	7.91	34.19	38.42	42.04	45.72	74.00	-28.28	peak
4	6602.265	11.24	35.39	37.68	43.31	52.26	74.00	-21.74	peak
5	7236.000	10.07	36.40	37.08	41.84	51.23	74.00	-22.77	peak
6 pp	9648.000	10.77	37.53	35.07	39.24	52.47	74.00	-21.53	peak



Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low

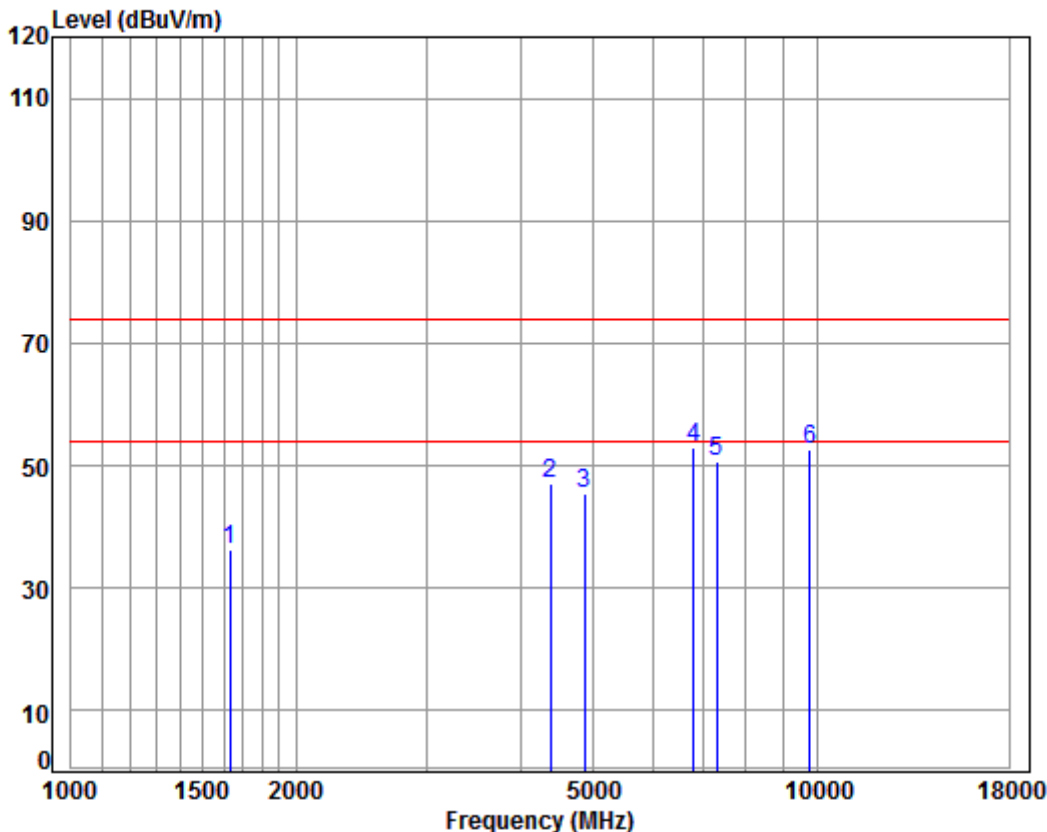


Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2412 TX RSE
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	5.23	26.66	38.02	42.91	36.78	74.00	-37.22	peak
2	4443.453	7.50	33.60	38.24	43.70	46.56	74.00	-27.44	peak
3	4824.000	7.91	34.19	38.42	43.04	46.72	74.00	-27.28	peak
4	6894.806	10.42	36.21	37.40	42.70	51.93	74.00	-22.07	peak
5	7236.000	10.07	36.40	37.08	41.92	51.31	74.00	-22.69	peak
6 pp	9648.000	10.77	37.53	35.07	39.36	52.59	74.00	-21.41	peak



Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 09712CR

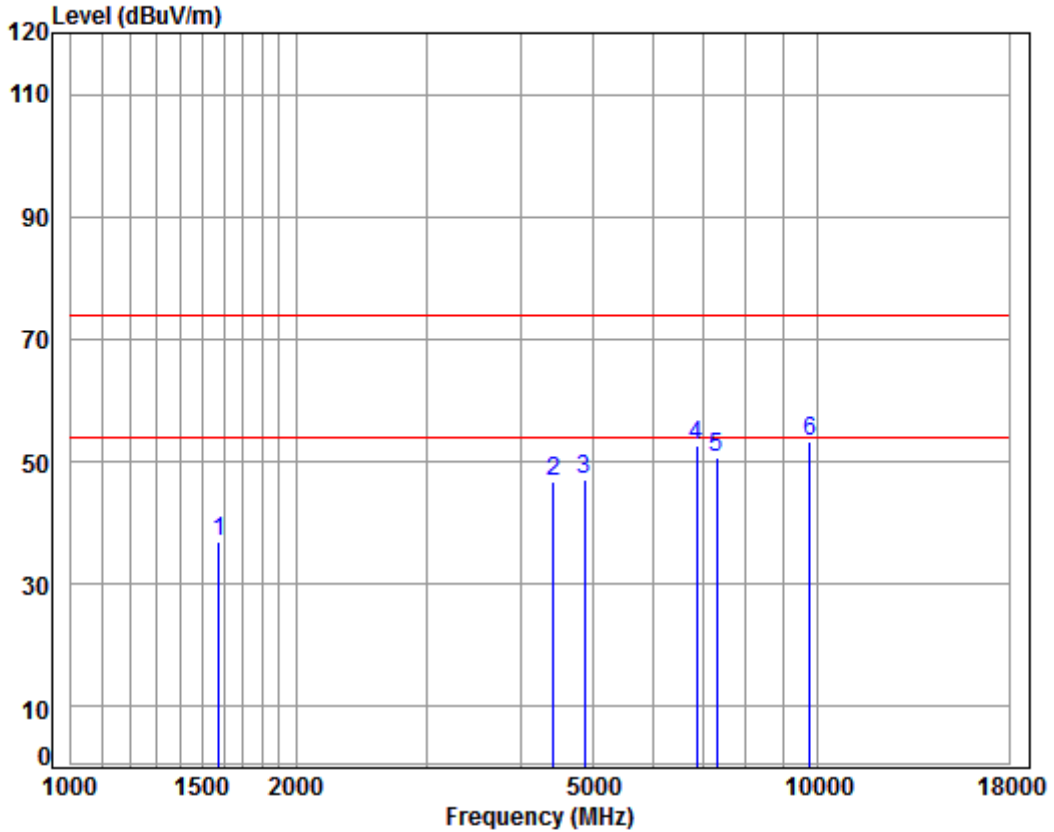
Mode : 2437 TX RSE

: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1629.825	5.31	26.38	38.03	42.73	36.39	74.00	-37.61	peak
2	4379.699	7.43	33.60	38.20	44.11	46.94	74.00	-27.06	peak
3	4874.000	7.96	34.28	38.44	41.66	45.46	74.00	-28.54	peak
4 pp	6815.551	10.64	36.00	37.47	43.75	52.92	74.00	-21.08	peak
5	7311.000	10.05	36.37	37.01	41.38	50.79	74.00	-23.21	peak
6	9748.000	10.82	37.55	35.02	39.16	52.51	74.00	-21.49	peak



Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:middle

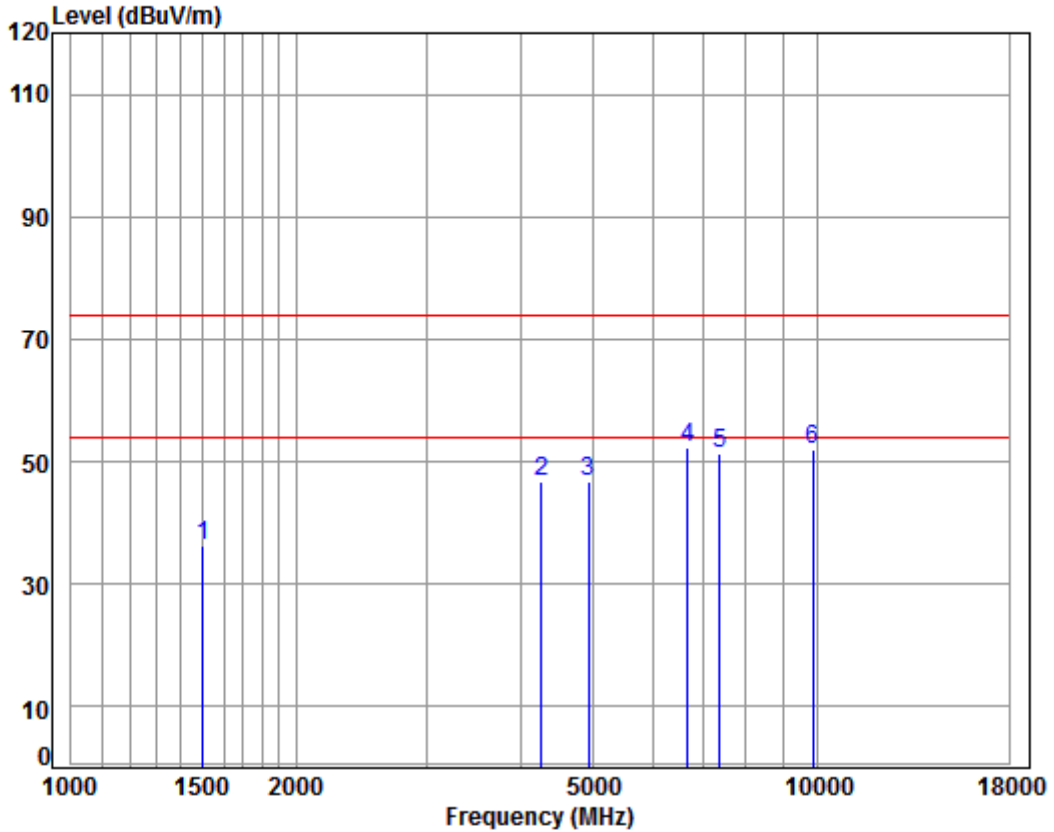


Condition: 3m VERTICAL
Job No : 09712CR
Mode : 2437 TX RSE
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1578.822	5.38	26.16	38.03	43.46	36.97	74.00	-37.03	peak
2	4417.841	7.47	33.60	38.22	43.76	46.61	74.00	-27.39	peak
3	4874.000	7.96	34.28	38.44	43.36	47.16	74.00	-26.84	peak
4	6874.906	10.47	36.16	37.42	43.54	52.75	74.00	-21.25	peak
5	7311.000	10.05	36.37	37.01	41.39	50.80	74.00	-23.20	peak
6	pp 9748.000	10.82	37.55	35.02	40.02	53.37	74.00	-20.63	peak



Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:High

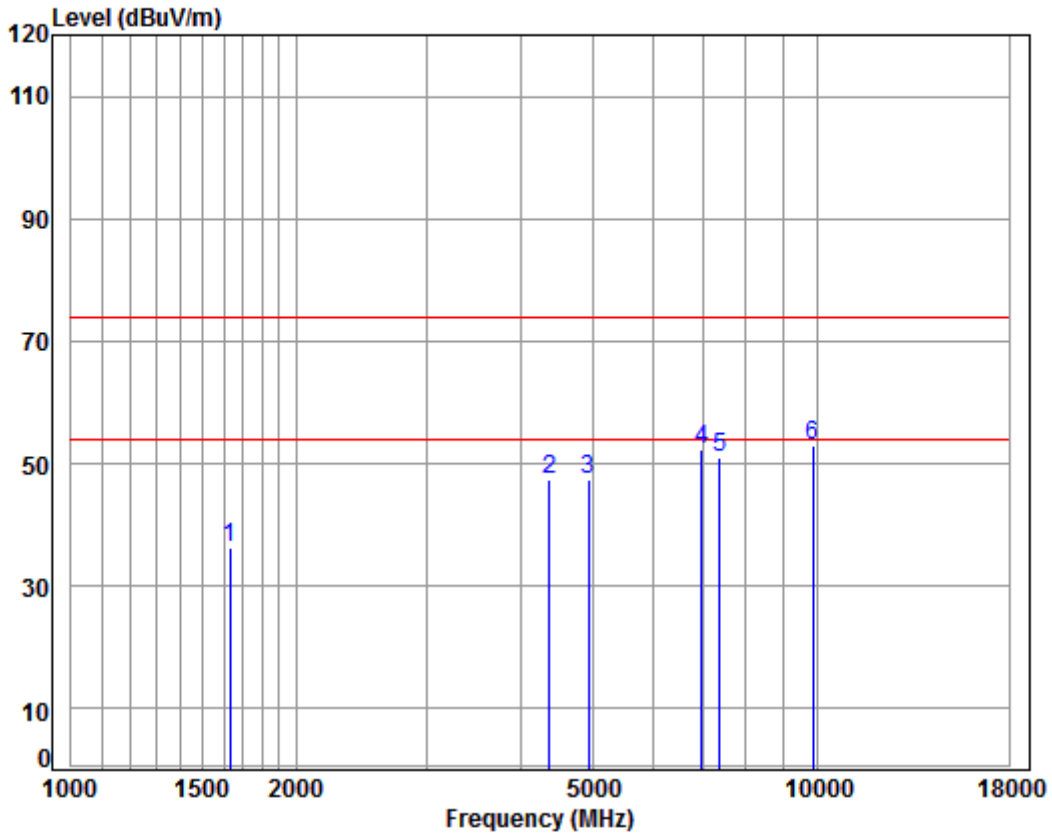


Condition: 3m HORIZONTAL
Job No : 09712CR
Mode : 2462 TX RSE
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	5.48	25.81	38.04	43.20	36.45	74.00	-37.55	peak
2	4267.237	7.30	33.60	38.14	44.09	46.85	74.00	-27.15	peak
3	4924.000	8.01	34.37	38.47	42.80	46.71	74.00	-27.29	peak
4 pp	6679.040	11.02	35.61	37.60	43.35	52.38	74.00	-21.62	peak
5	7386.000	10.03	36.34	36.94	41.80	51.23	74.00	-22.77	peak
6	9848.000	10.87	37.57	34.97	38.43	51.90	74.00	-22.10	peak



Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 09712CR

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1629.825	5.31	26.38	38.03	42.79	36.45	74.00	-37.55	peak
2	4367.058	7.41	33.60	38.20	44.71	47.52	74.00	-26.48	peak
3	4924.000	8.01	34.37	38.47	43.46	47.37	74.00	-26.63	peak
4	6974.982	10.20	36.43	37.32	43.04	52.35	74.00	-21.65	peak
5	7386.000	10.03	36.34	36.94	41.65	51.08	74.00	-22.92	peak
6 pp	9848.000	10.87	37.57	34.97	39.56	53.03	74.00	-20.97	peak

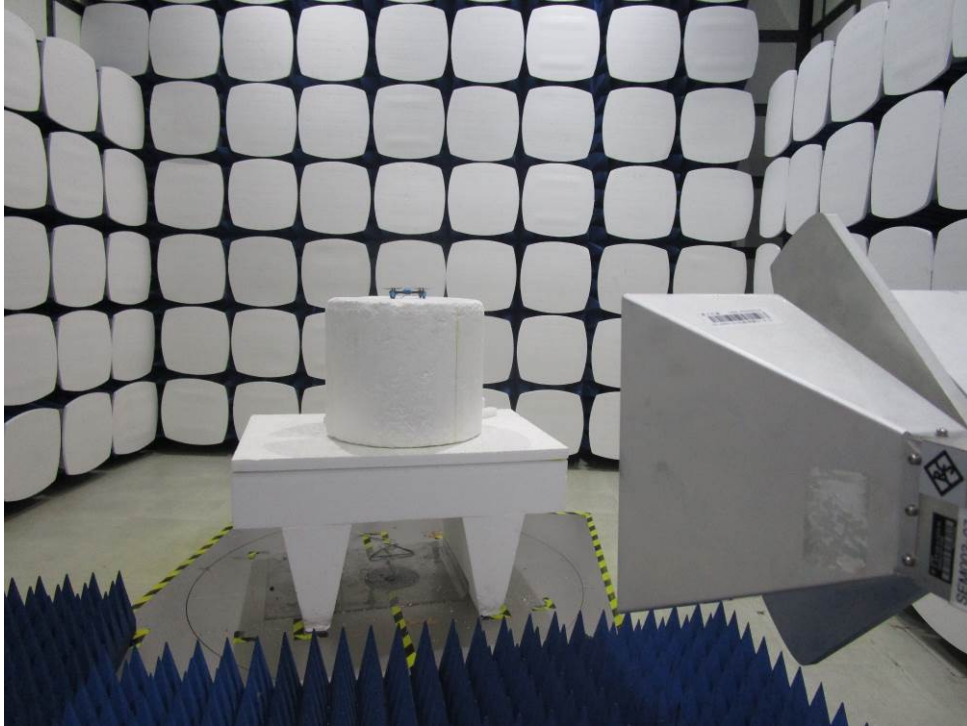


Remark:

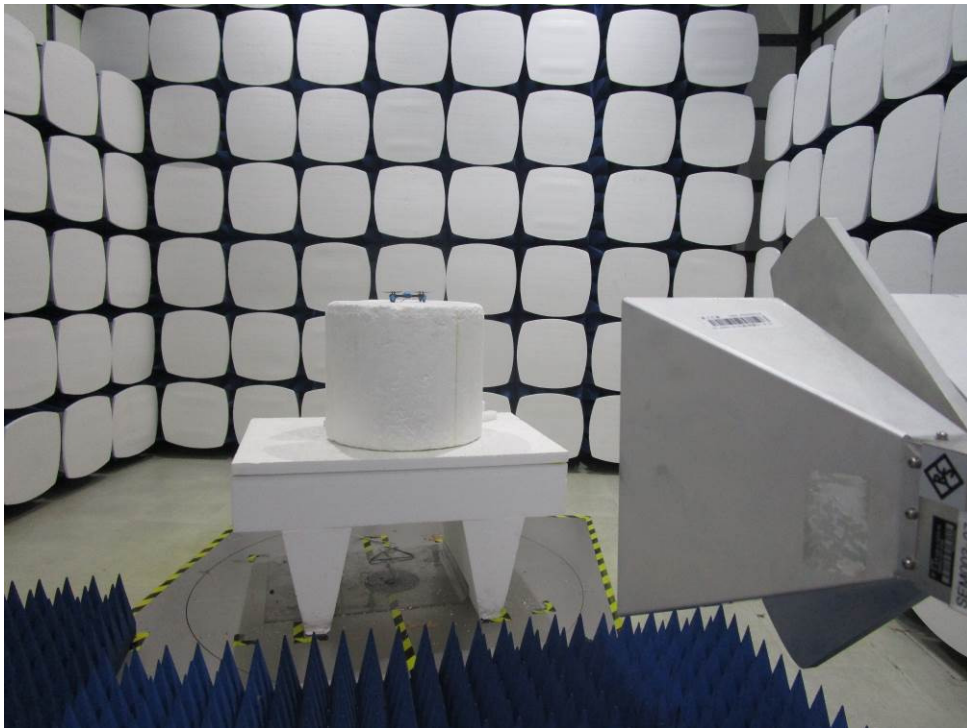
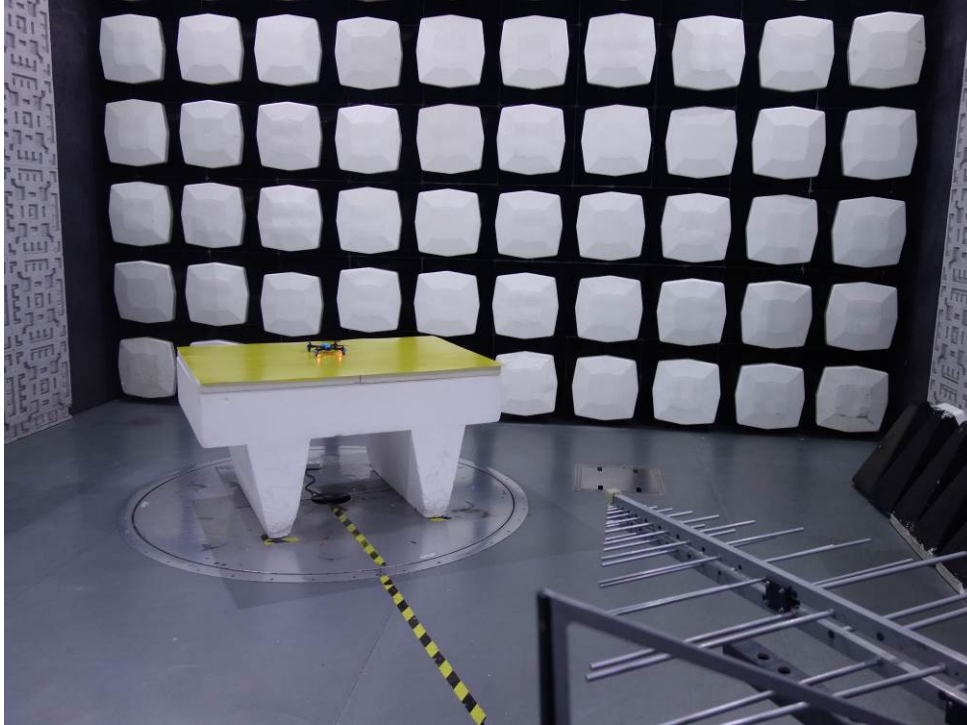
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only above measurement data were shown in the report.

8 Photographs

8.1 Radiated Emissions which fall in the restricted bands Test Setup



8.2 Radiated Spurious Emissions Test Setup



8.3 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1709009712CR.

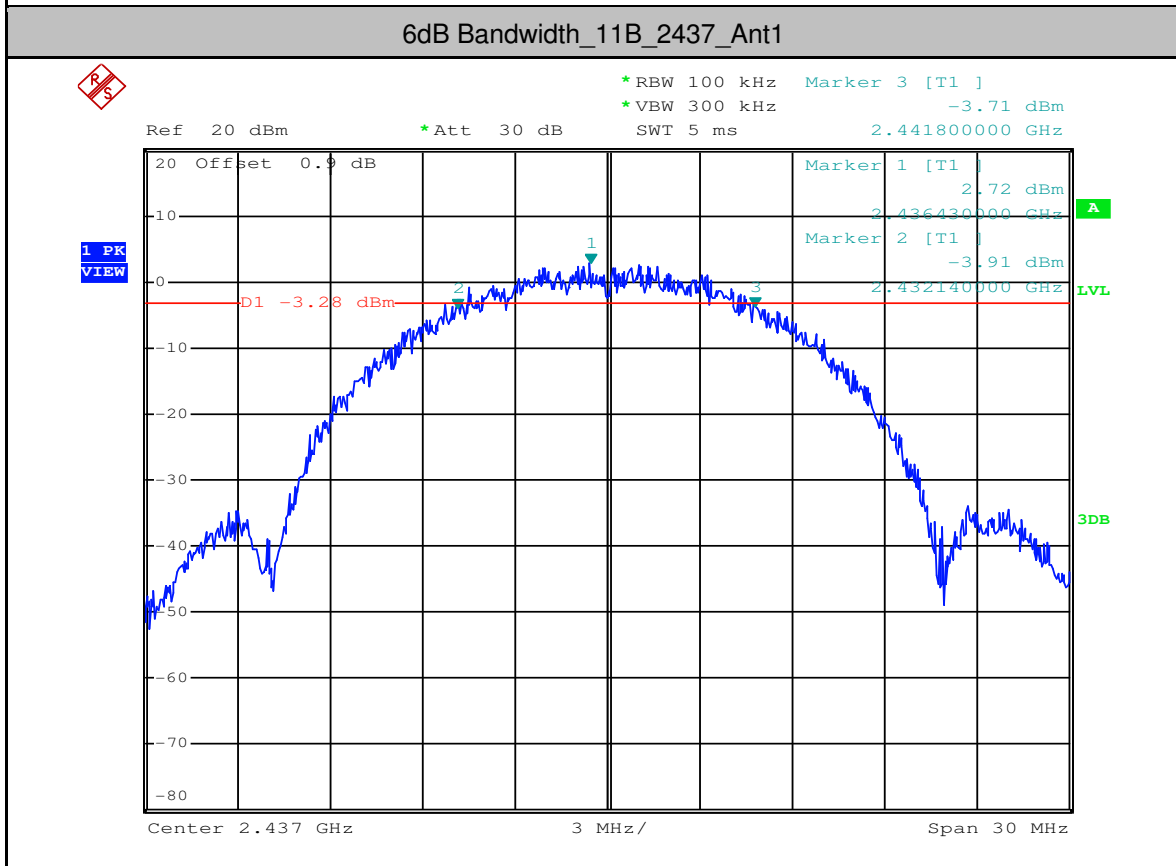
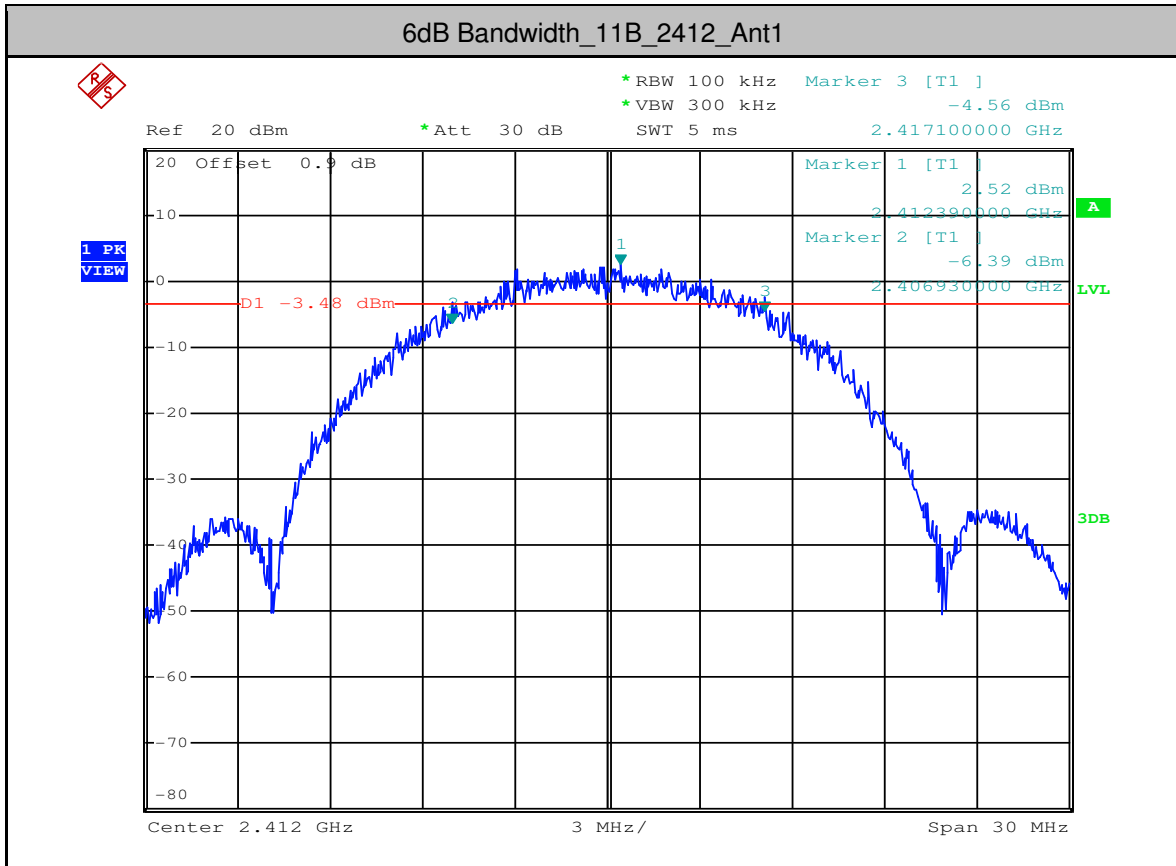


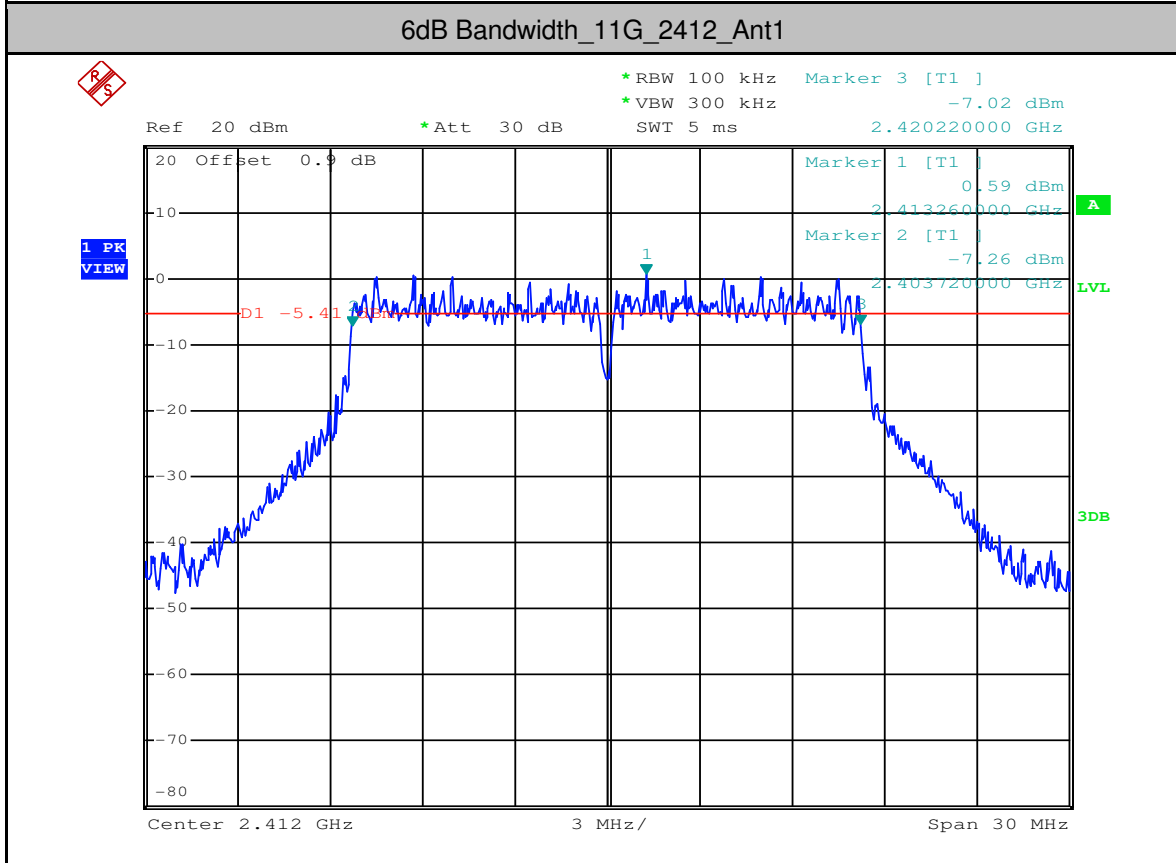
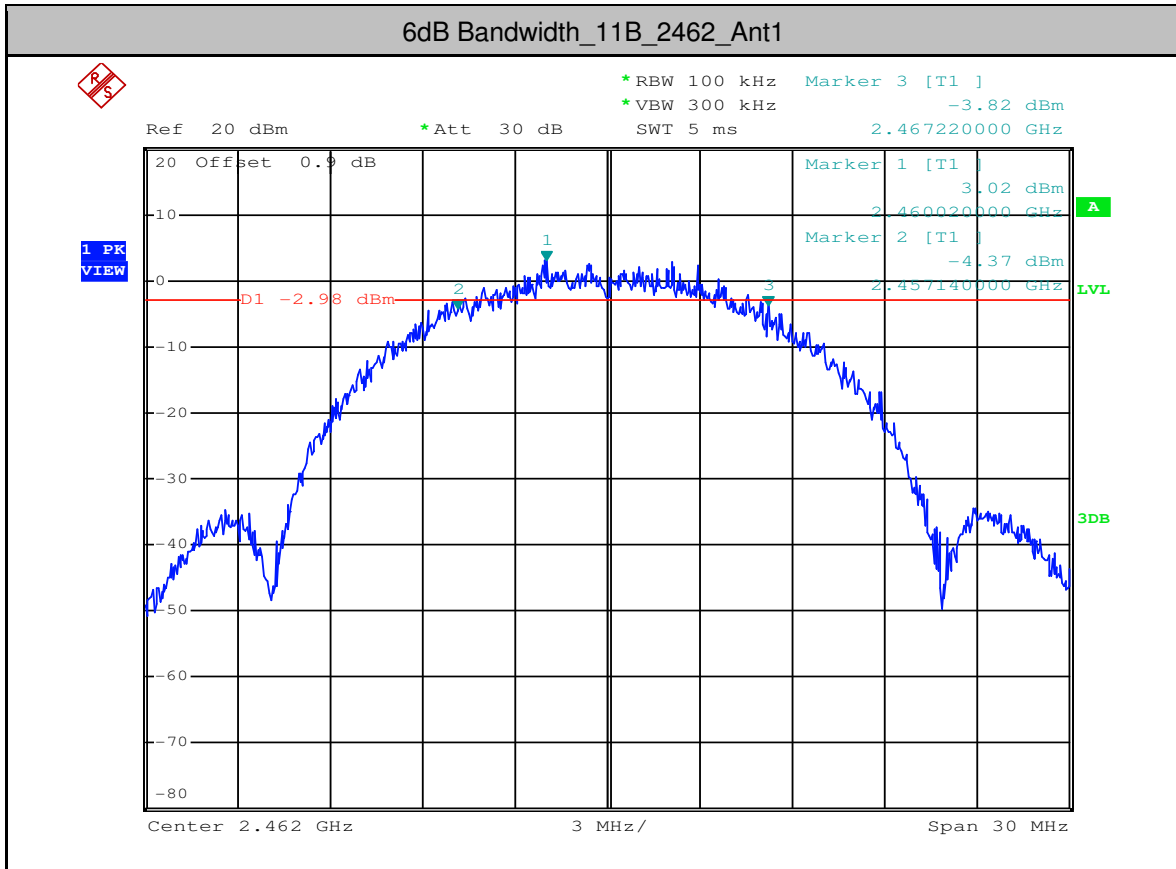
9 Appendix

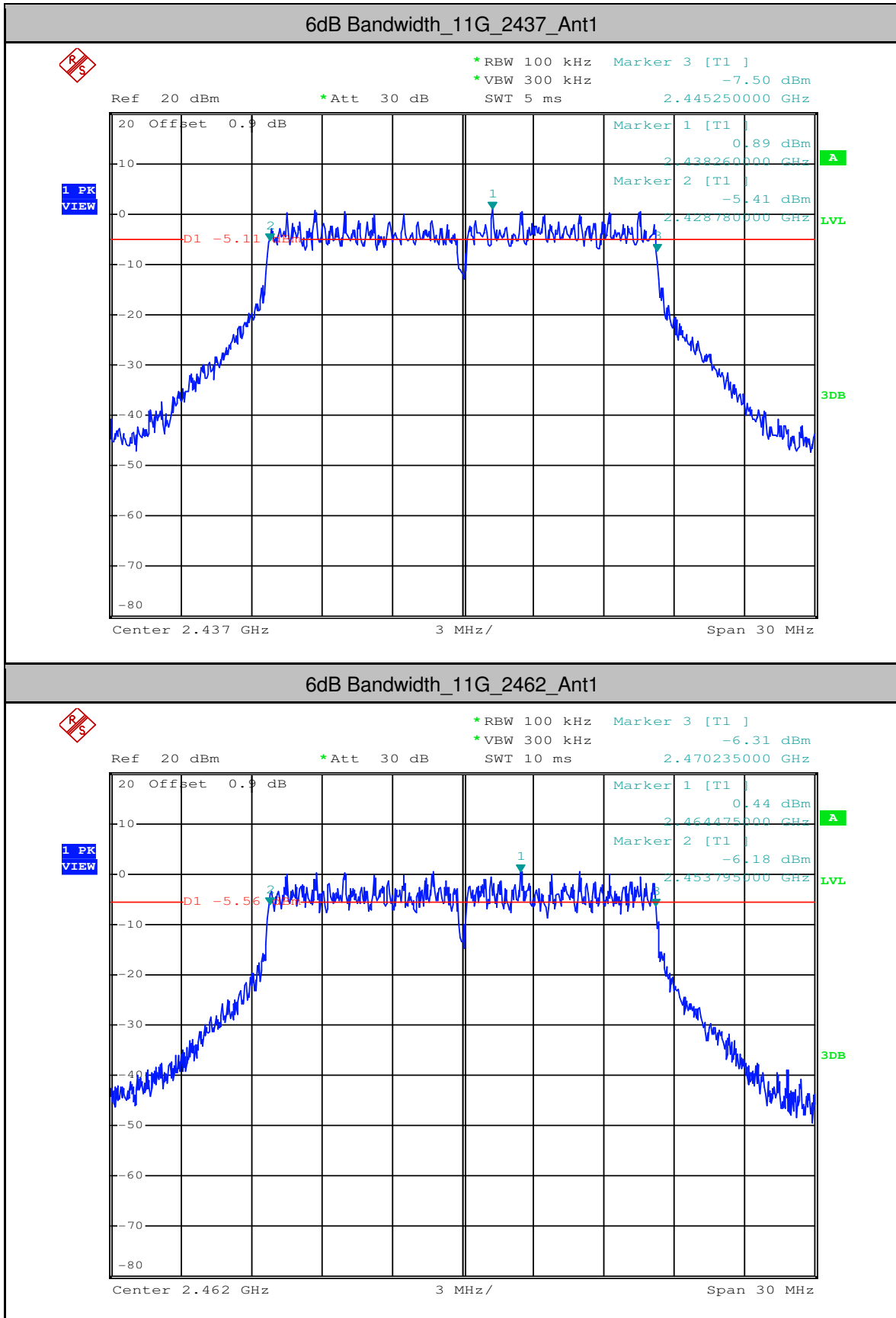
9.1 Appendix 15.247

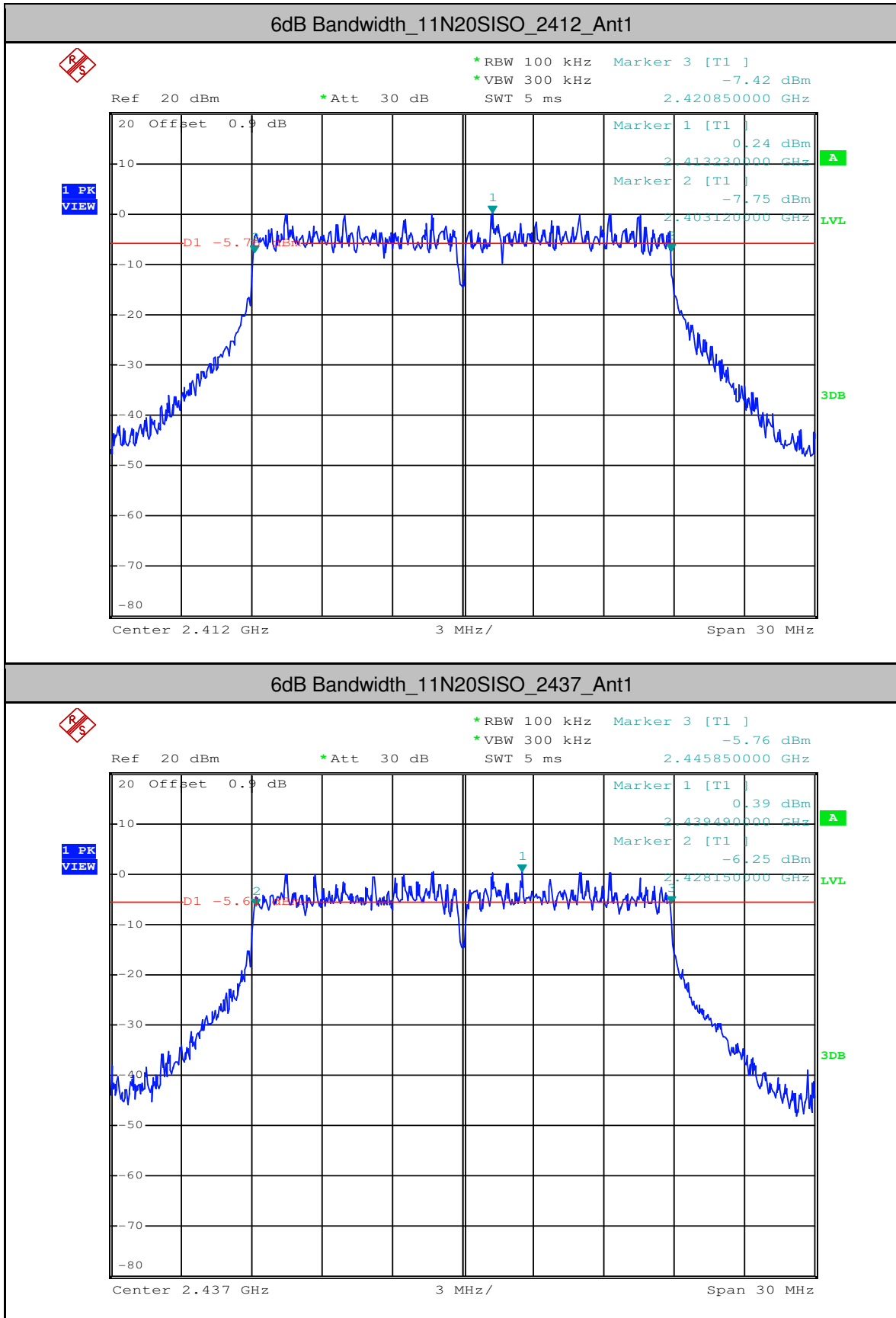
1.6dB Bandwidth

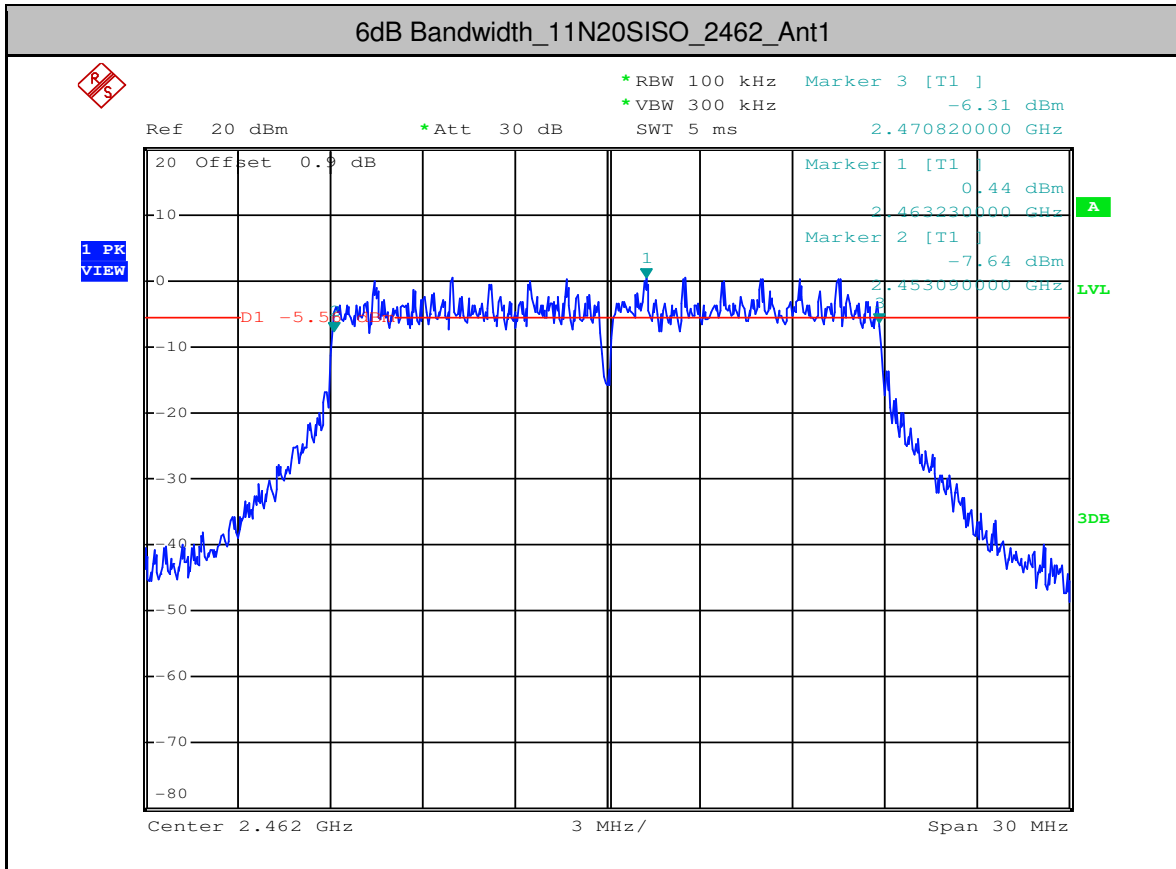
Test Mode	Test	Ant	EBW[MHz]	Limit[MHz]	Verdict
11B	2412	Ant1	10.170	≥ 0.5	PASS
11B	2437	Ant1	9.660	≥ 0.5	PASS
11B	2462	Ant1	10.080	≥ 0.5	PASS
11G	2412	Ant1	16.500	≥ 0.5	PASS
11G	2437	Ant1	16.470	≥ 0.5	PASS
11G	2462	Ant1	16.440	≥ 0.5	PASS
11N20SISO	2412	Ant1	17.730	≥ 0.5	PASS
11N20SISO	2437	Ant1	17.700	≥ 0.5	PASS
11N20SISO	2462	Ant1	17.730	≥ 0.5	PASS







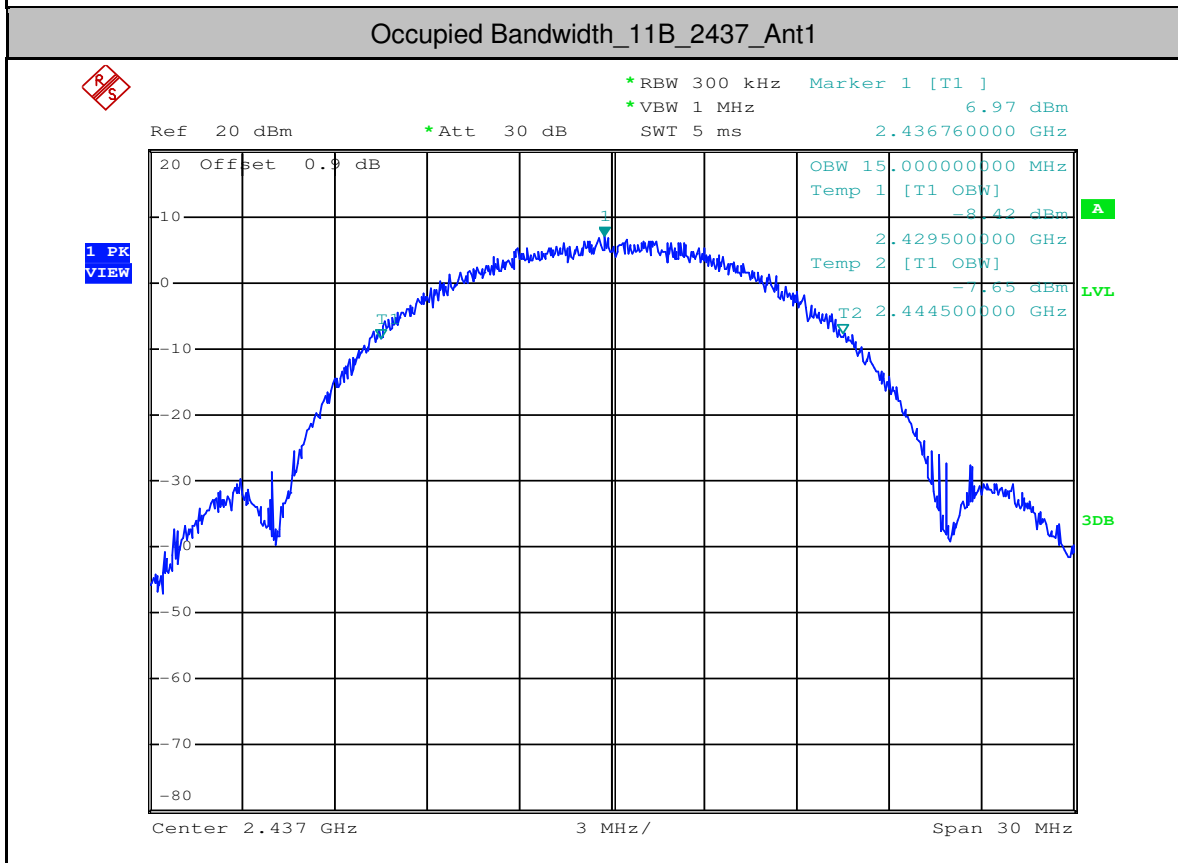
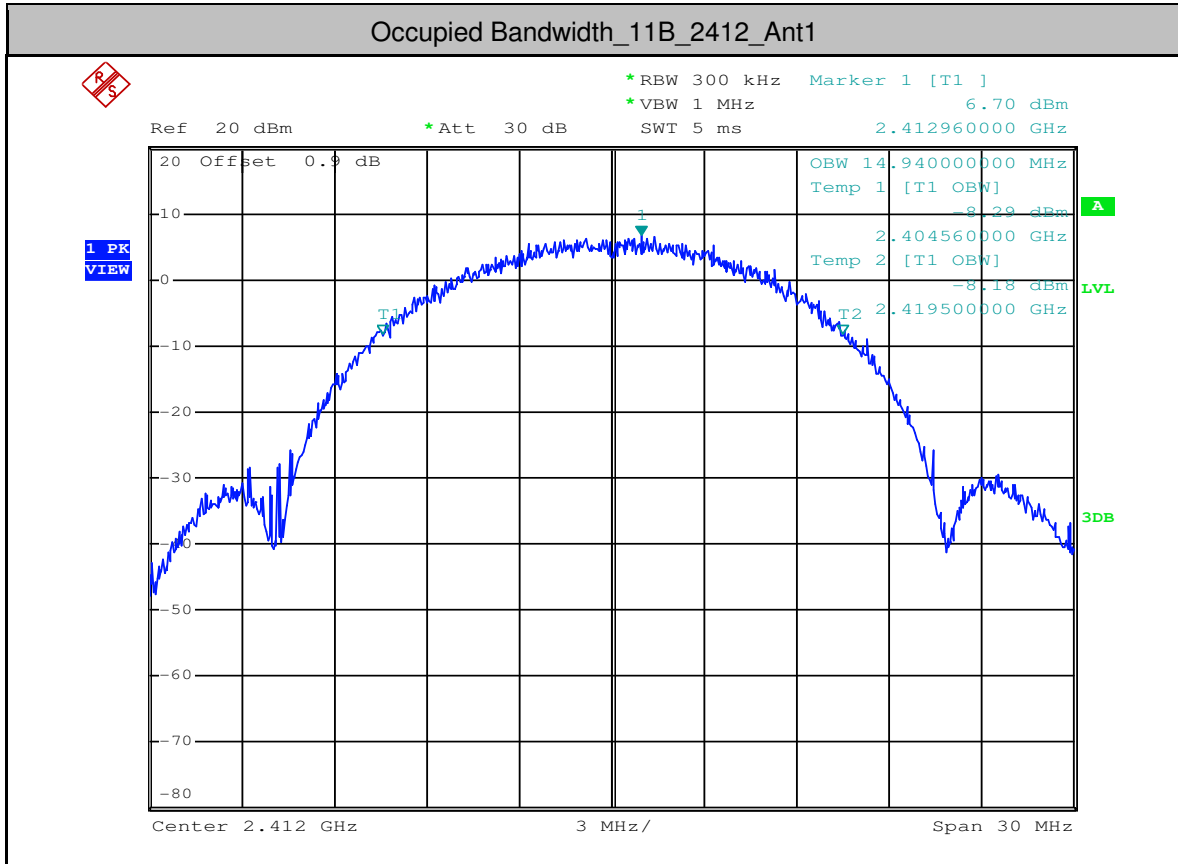


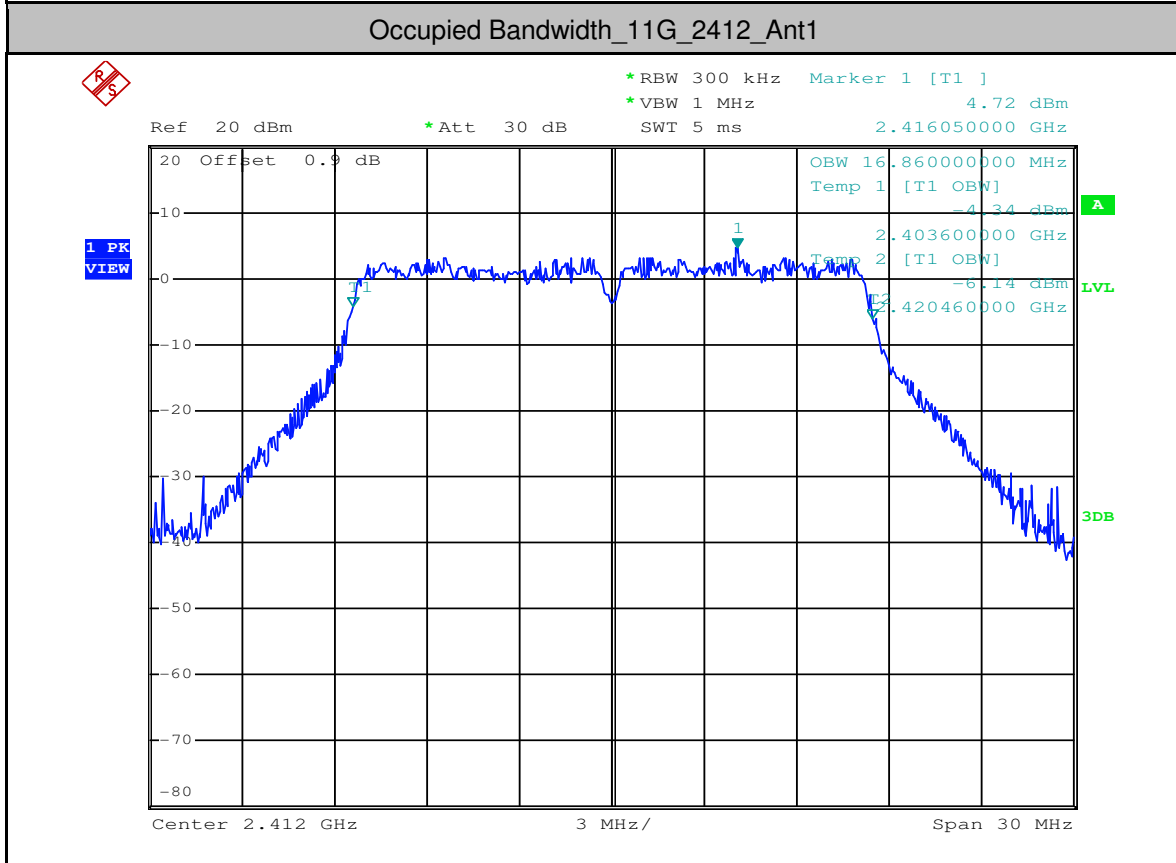
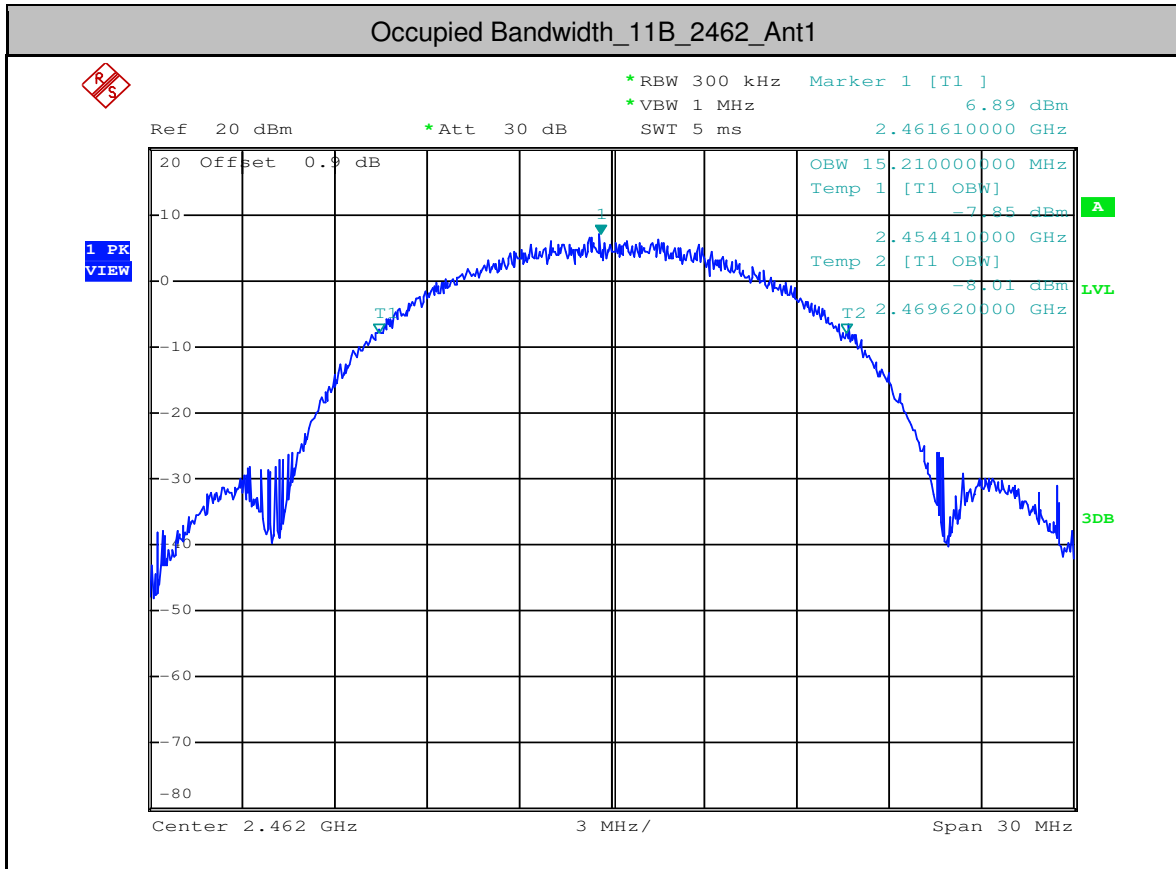


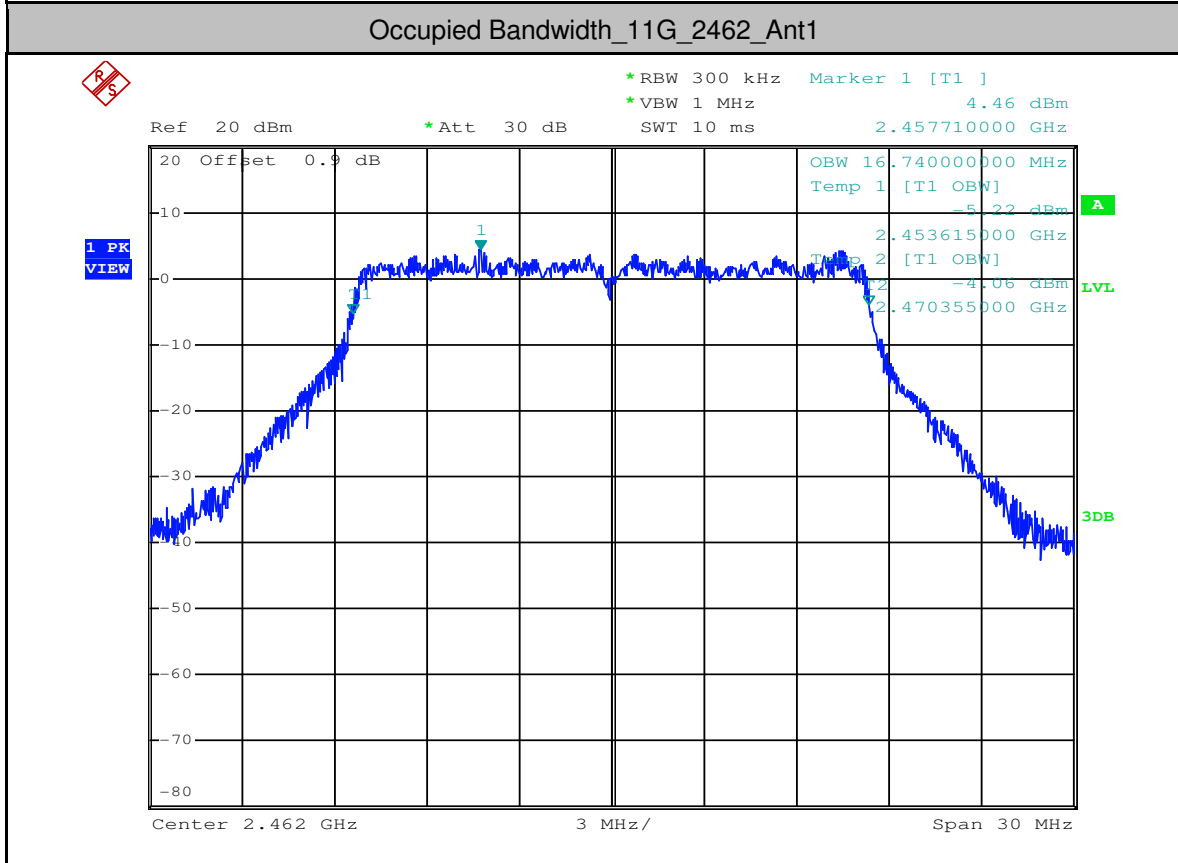
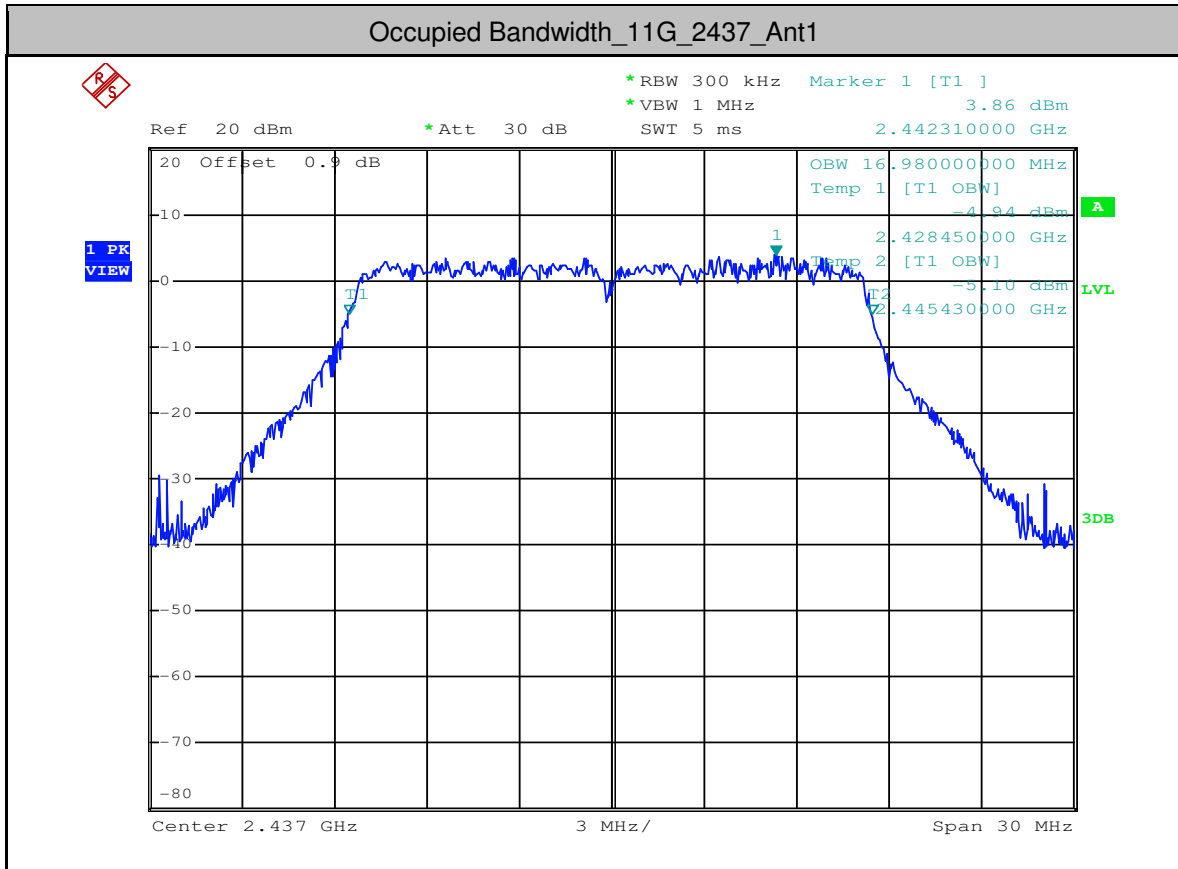


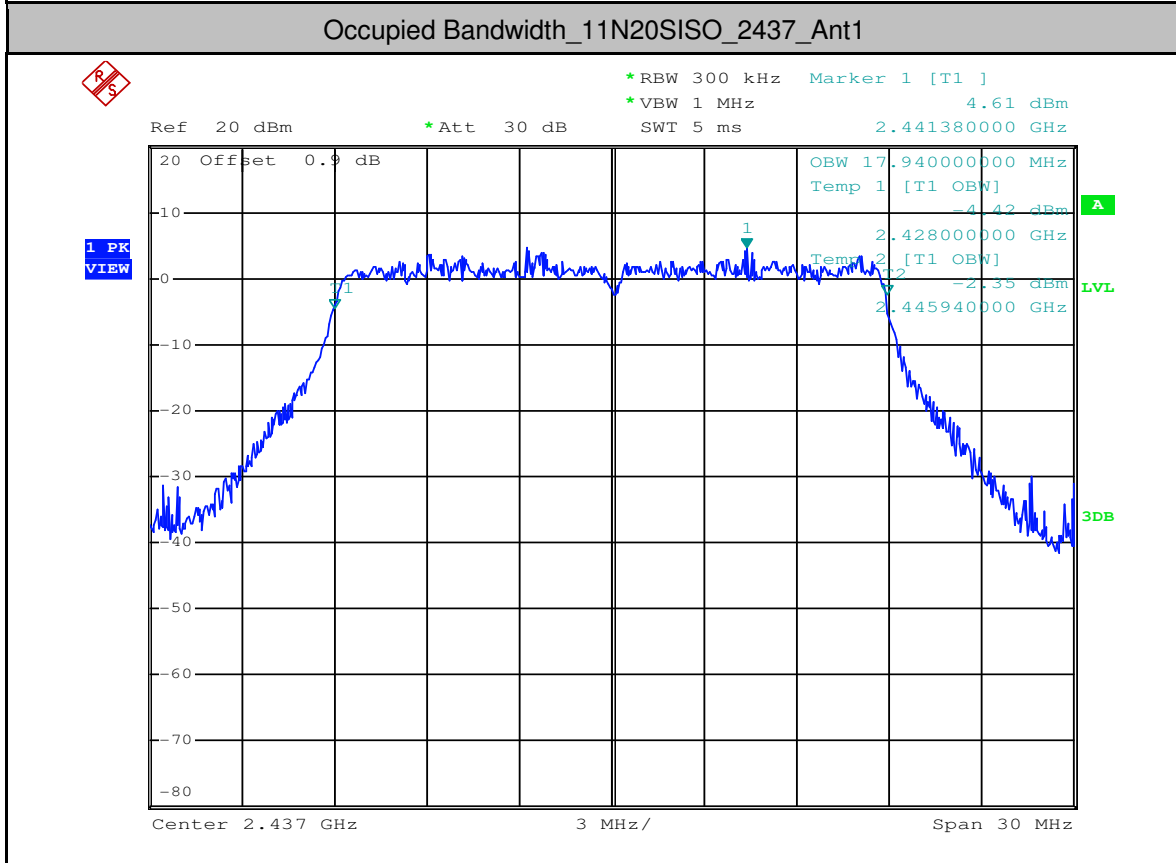
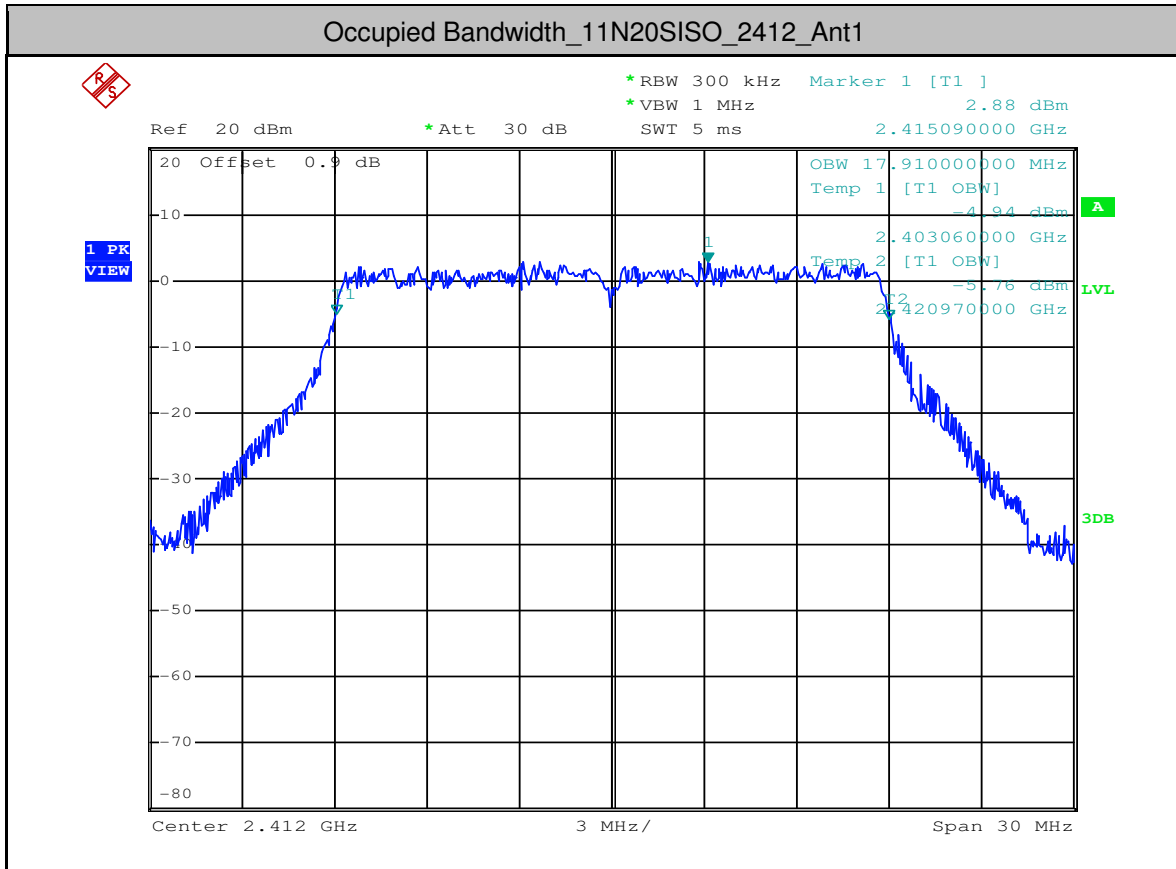
2.Occupied Bandwidth

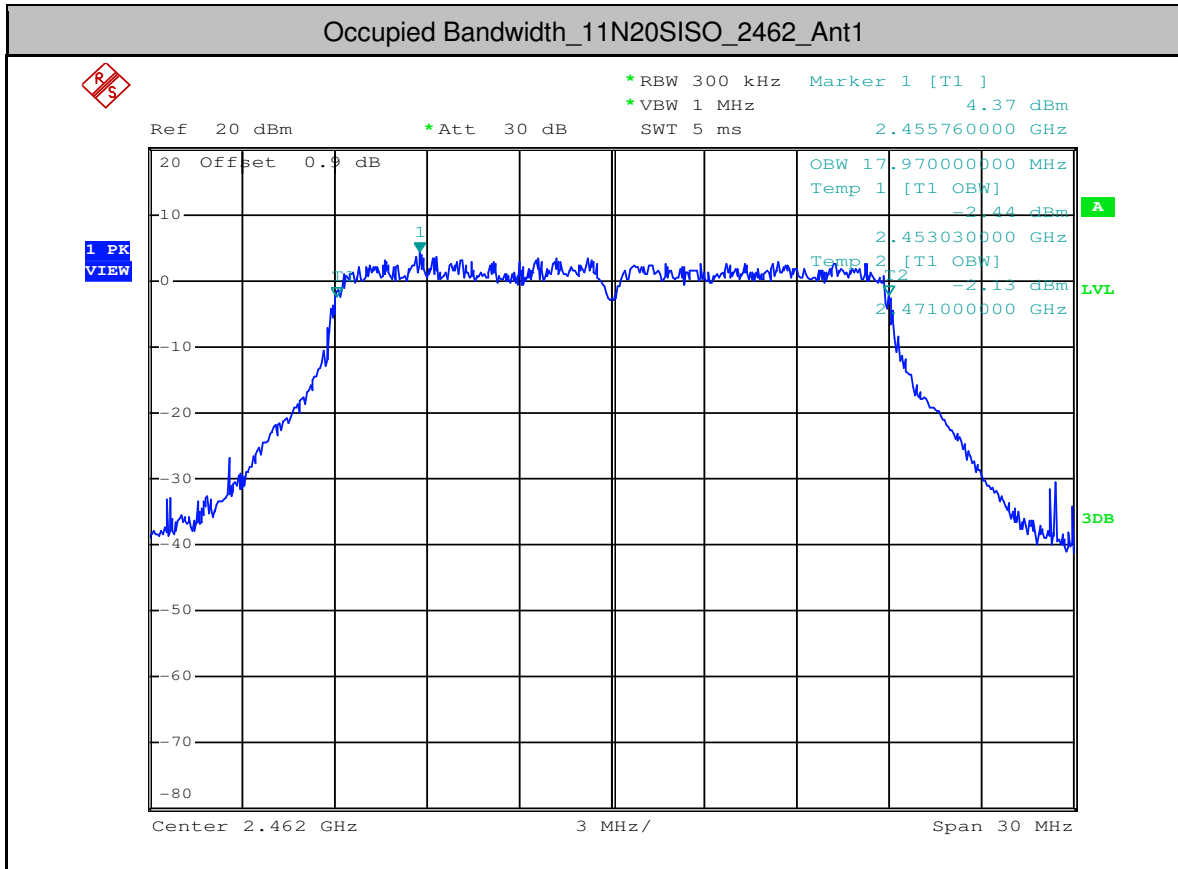
Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
11B	2412	Ant1	14.940	---	PASS
11B	2437	Ant1	15.000	---	PASS
11B	2462	Ant1	15.210	---	PASS
11G	2412	Ant1	16.860	---	PASS
11G	2437	Ant1	16.980	---	PASS
11G	2462	Ant1	16.740	---	PASS
11N20SISO	2412	Ant1	17.910	---	PASS
11N20SISO	2437	Ant1	17.940	---	PASS
11N20SISO	2462	Ant1	17.970	---	PASS







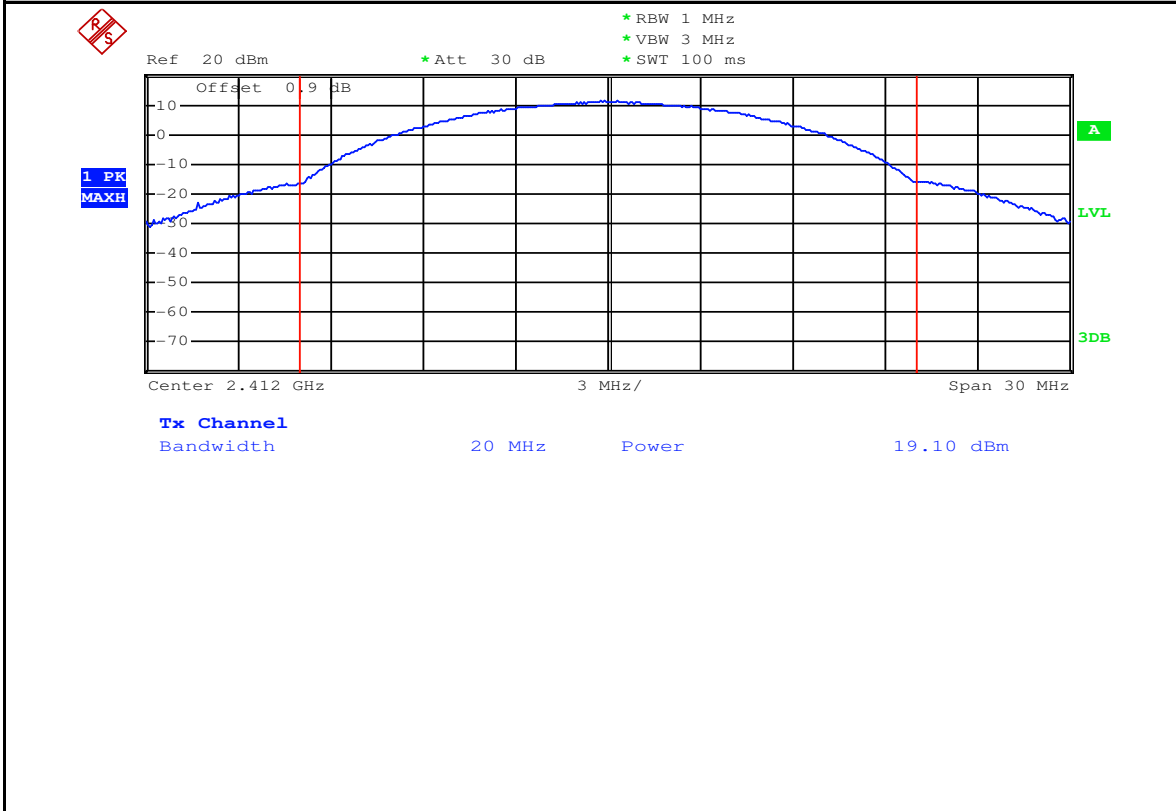




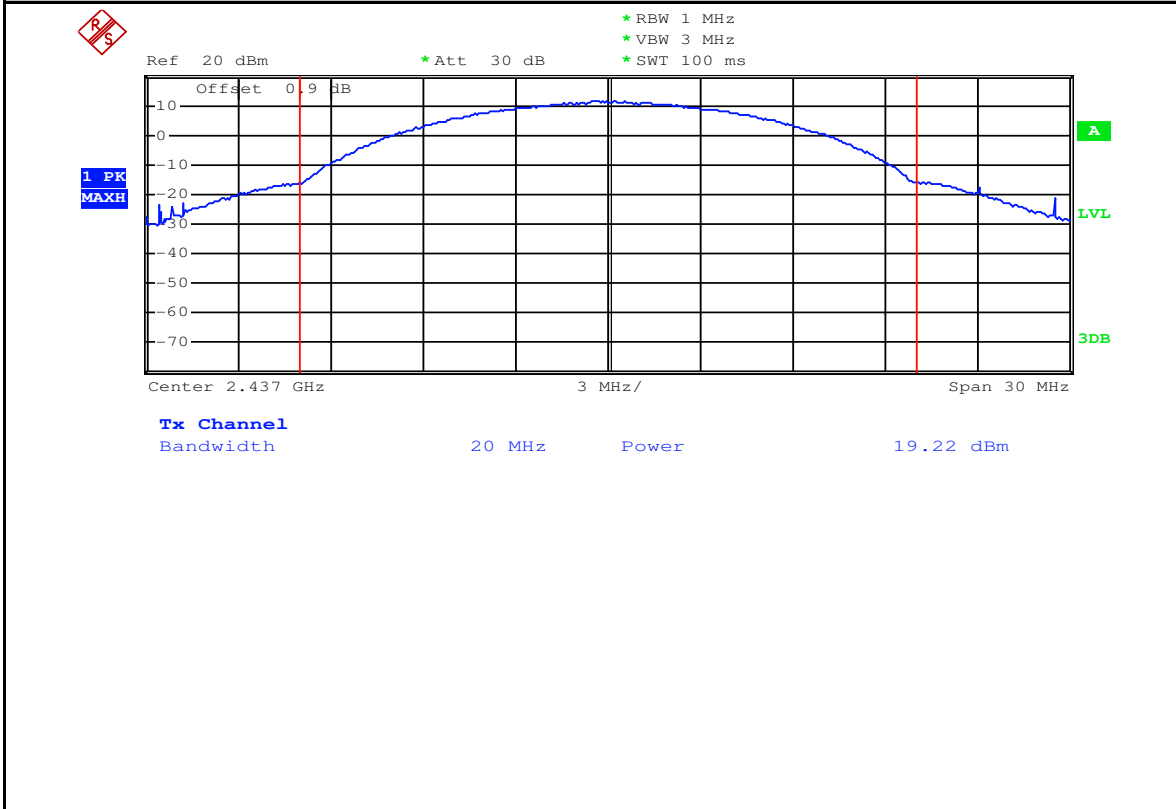
3. Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
11B	2412	Ant1	19.10	<30	PASS
11B	2437	Ant1	19.22	<30	PASS
11B	2462	Ant1	19.02	<30	PASS
11G	2412	Ant1	19.65	<30	PASS
11G	2437	Ant1	19.93	<30	PASS
11G	2462	Ant1	19.94	<30	PASS
11N20SISO	2412	Ant1	19.36	<30	PASS
11N20SISO	2437	Ant1	19.98	<30	PASS
11N20SISO	2462	Ant1	19.78	<30	PASS

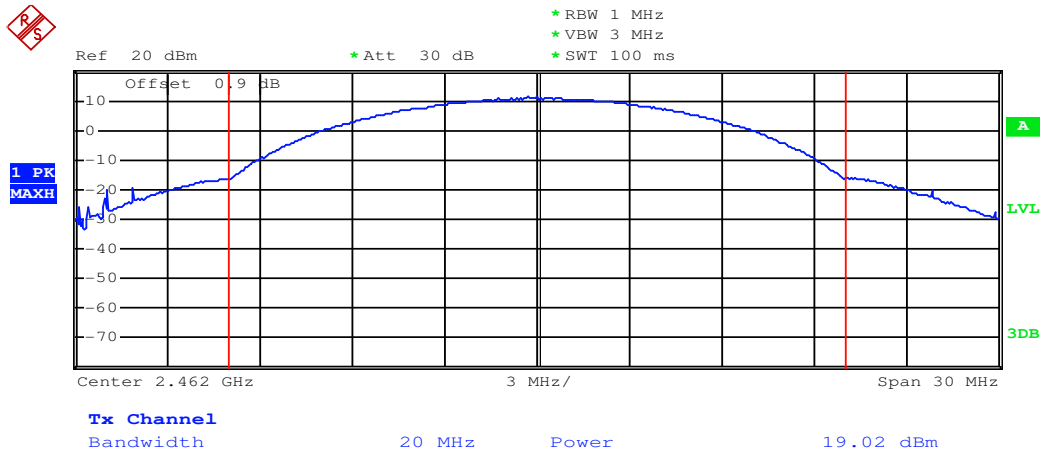
Maximum peak conducted output power_11B_2412_Ant1



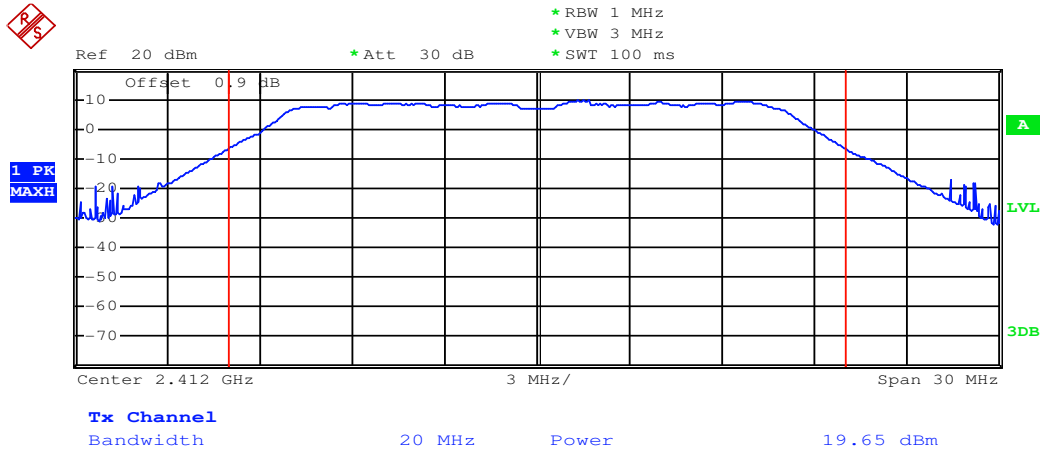
Maximum peak conducted output power_11B_2437_Ant1



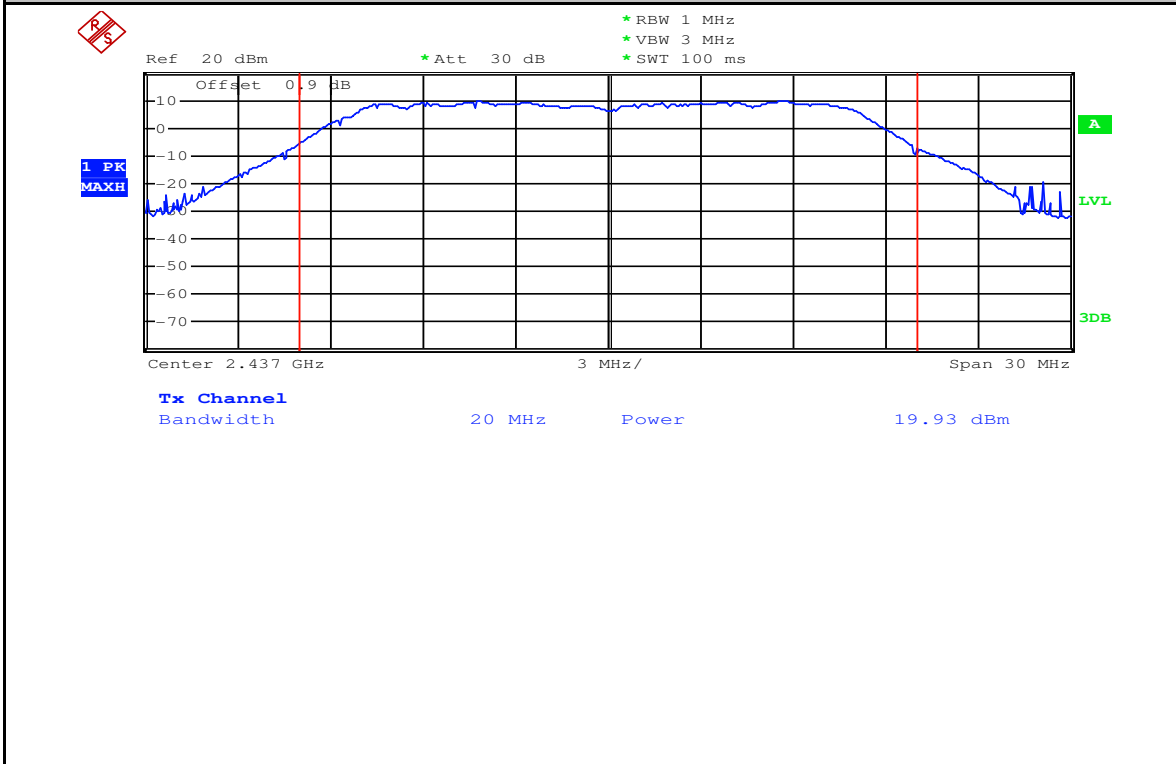
Maximum peak conducted output power_11B_2462_Ant1



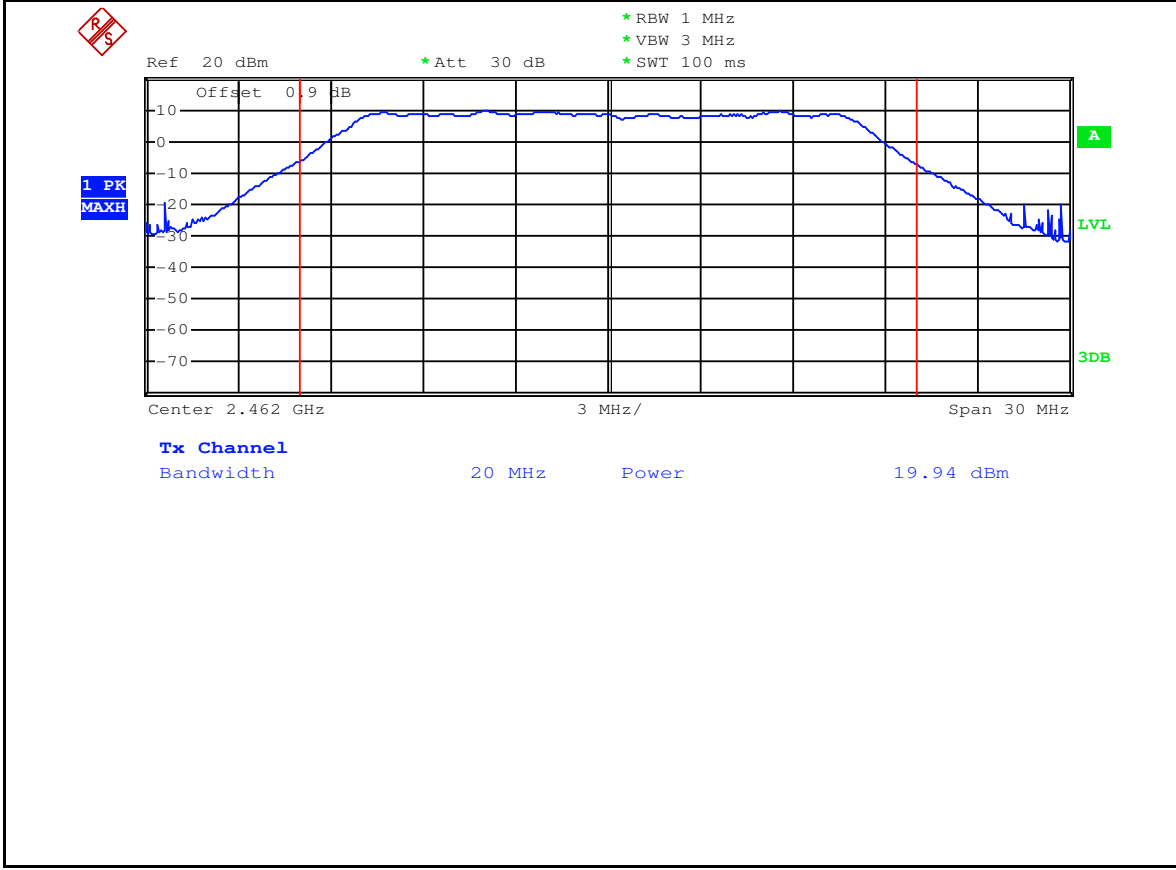
Maximum peak conducted output power_11G_2412_Ant1



Maximum peak conducted output power_11G_2437_Ant1

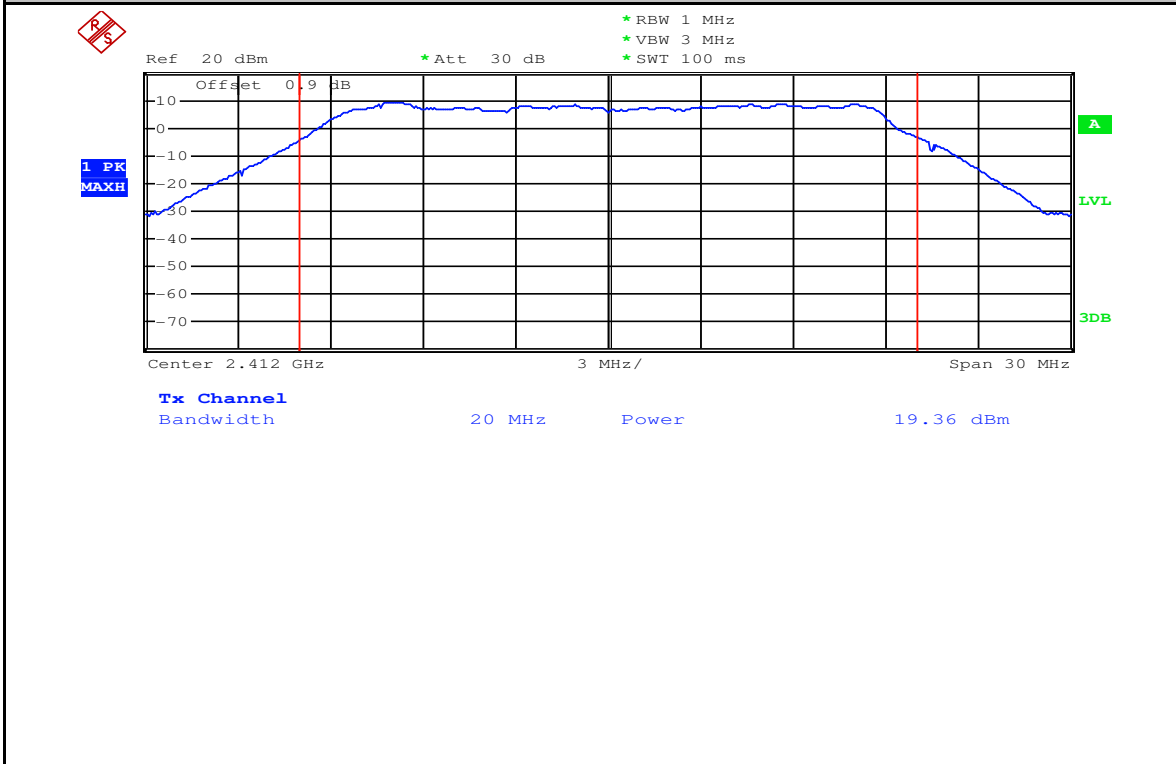


Maximum peak conducted output power_11G_2462_Ant1

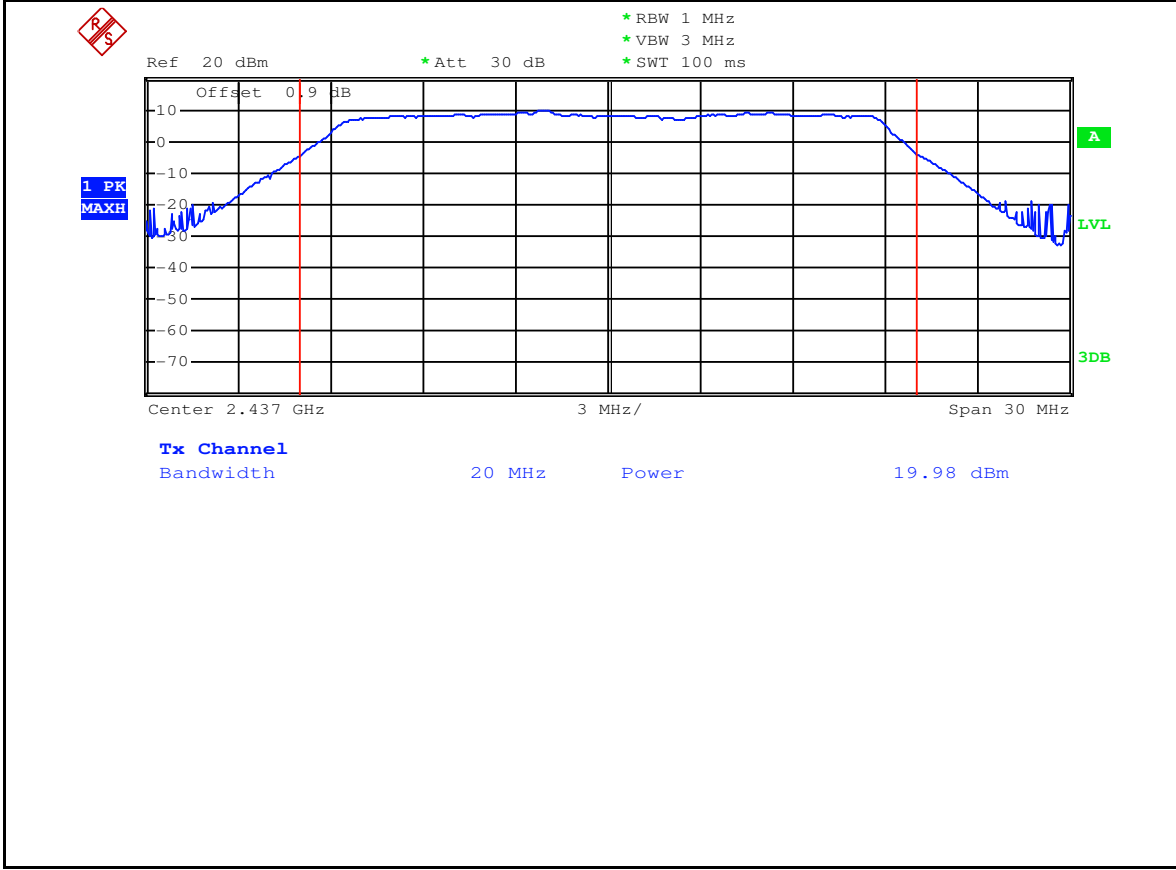


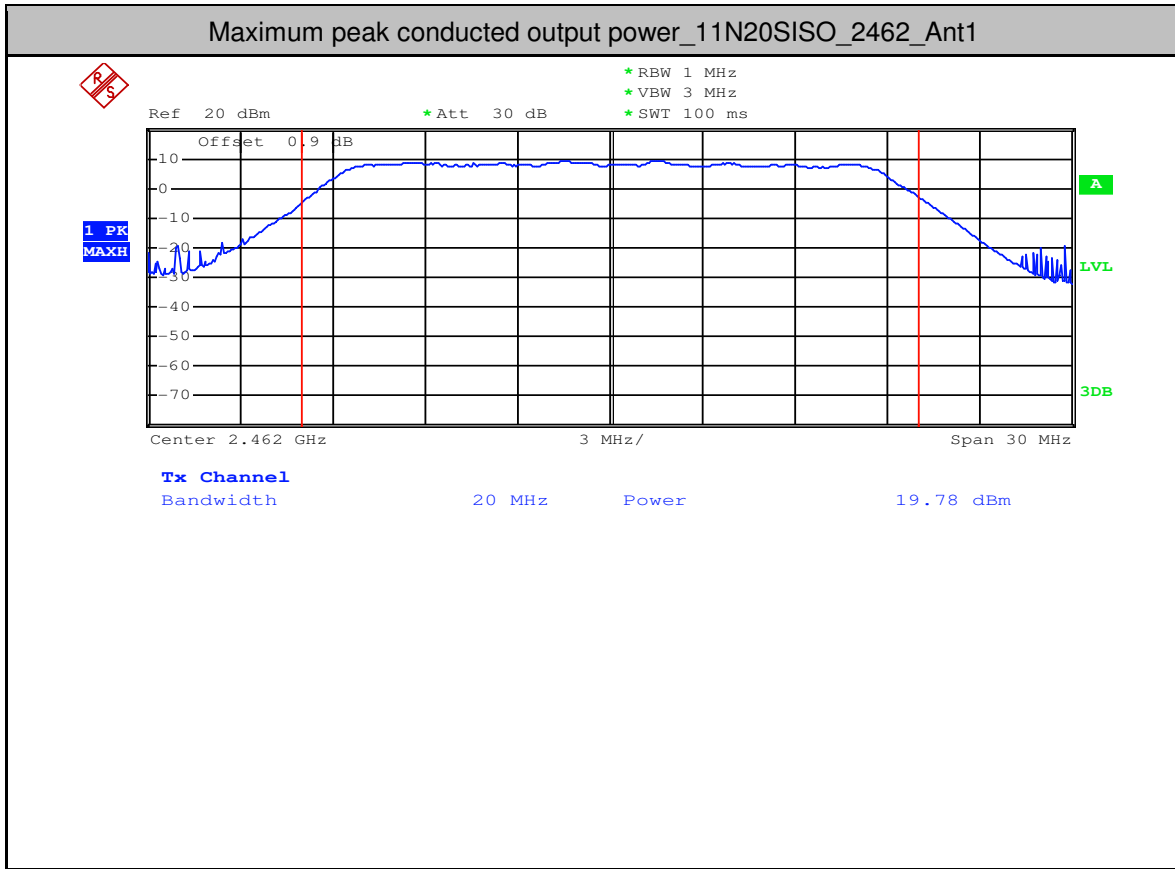
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Maximum peak conducted output power_11N20SISO_2412_Ant1



Maximum peak conducted output power_11N20SISO_2437_Ant1



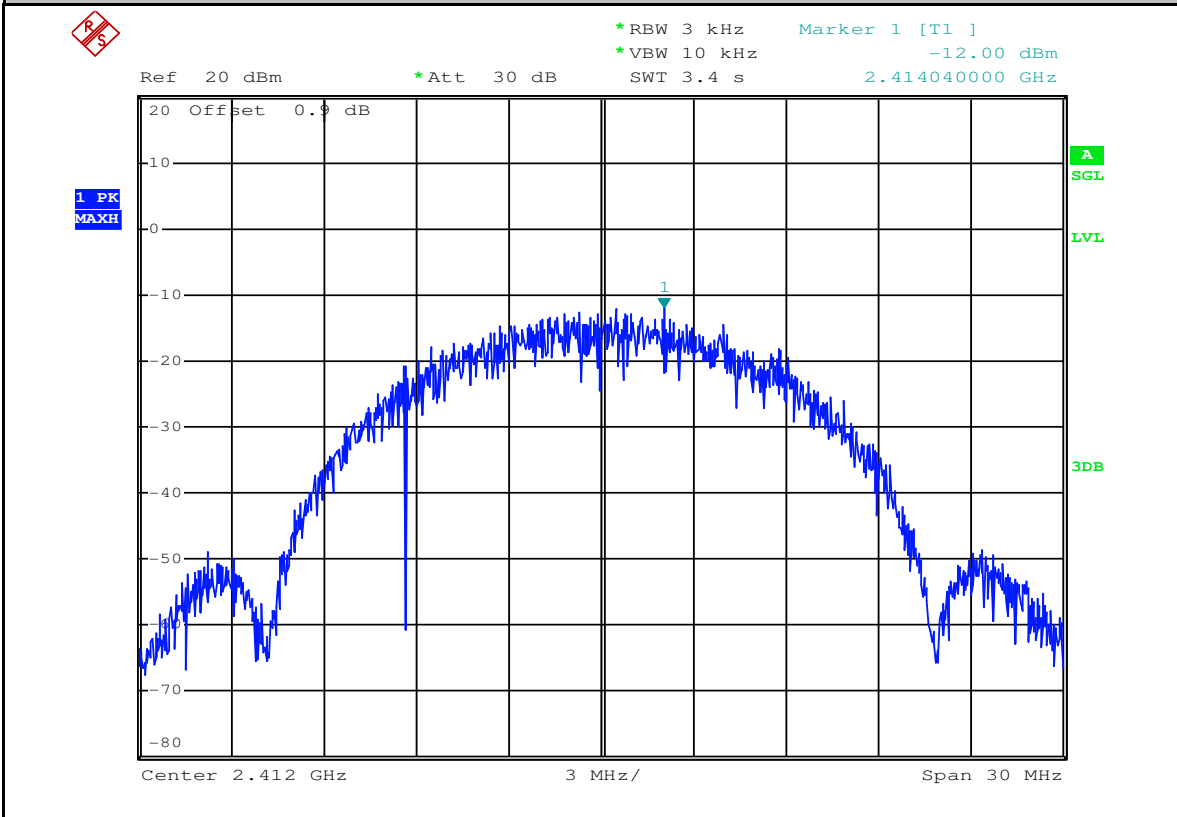


4. Maximum Peak power spectral density

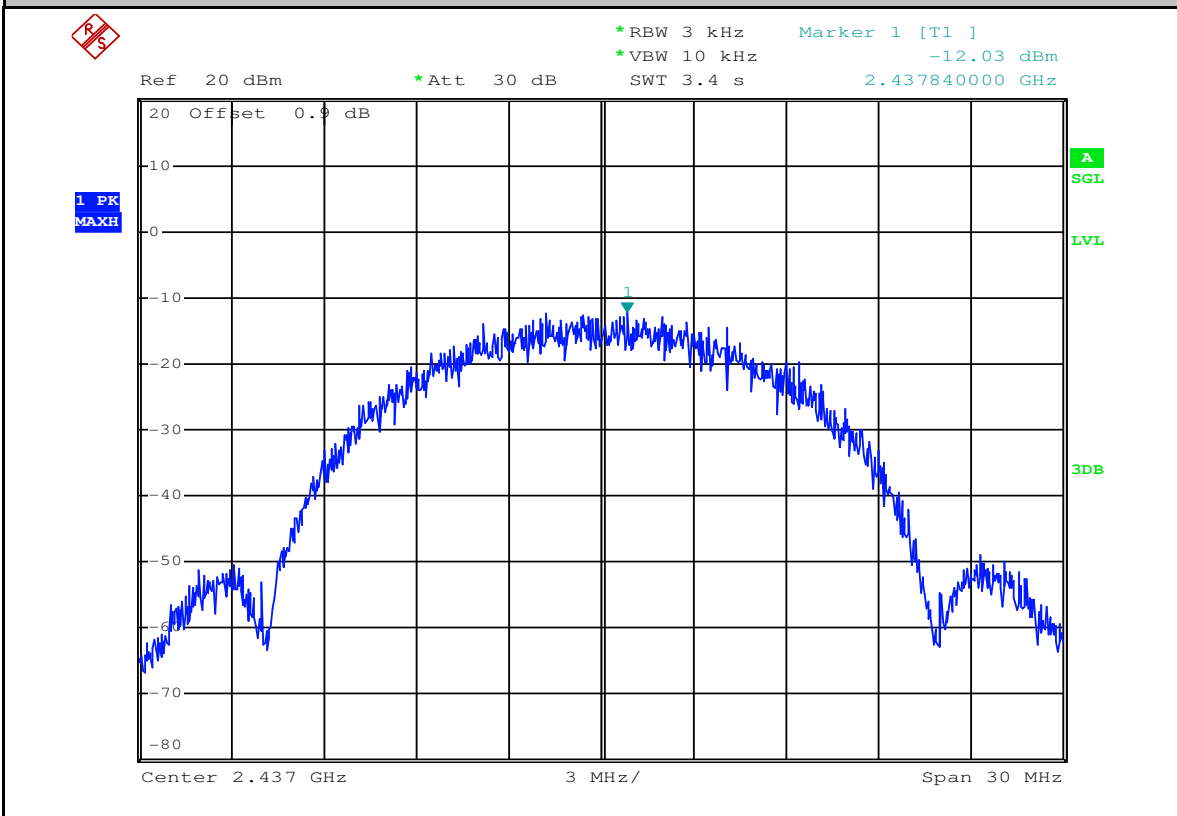
Test Mode	Test Channel	Ant	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	Ant1	-12	<8.00	PASS
11B	2437	Ant1	-12.03	<8.00	PASS
11B	2462	Ant1	-11.96	<8.00	PASS
11G	2412	Ant1	-14.49	<8.00	PASS
11G	2437	Ant1	-14.85	<8.00	PASS
11G	2462	Ant1	-15.56	<8.00	PASS
11N20SISO	2412	Ant1	-13.6	<8.00	PASS
11N20SISO	2437	Ant1	-14.94	<8.00	PASS
11N20SISO	2462	Ant1	-15.82	<8.00	PASS

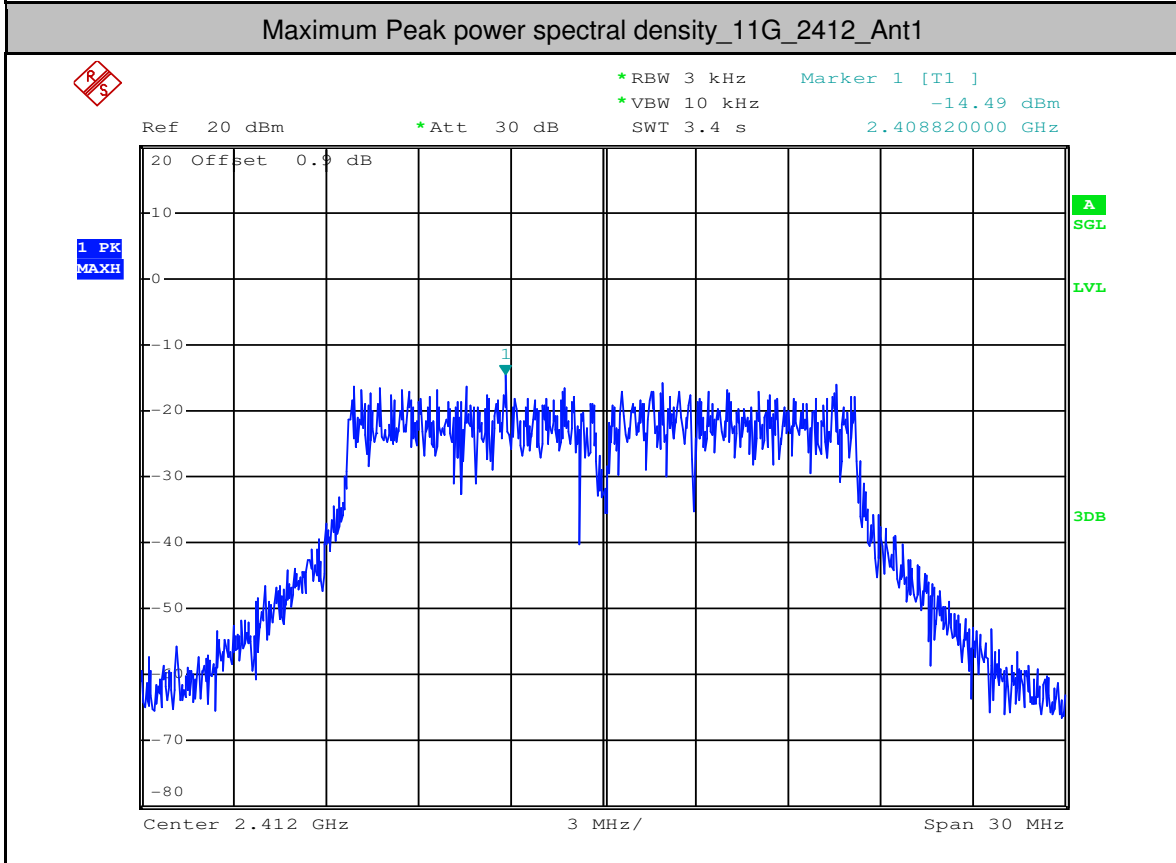
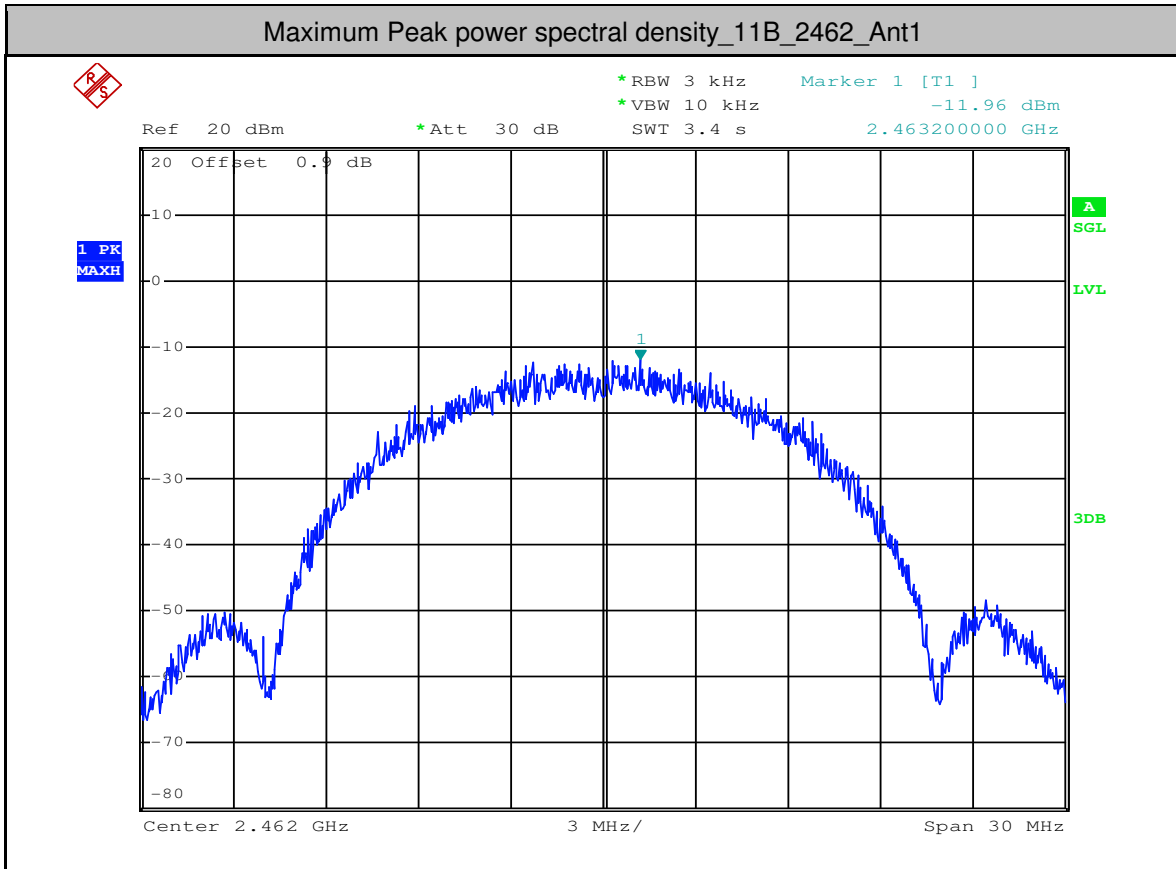


Maximum Peak power spectral density_11B_2412_Ant1

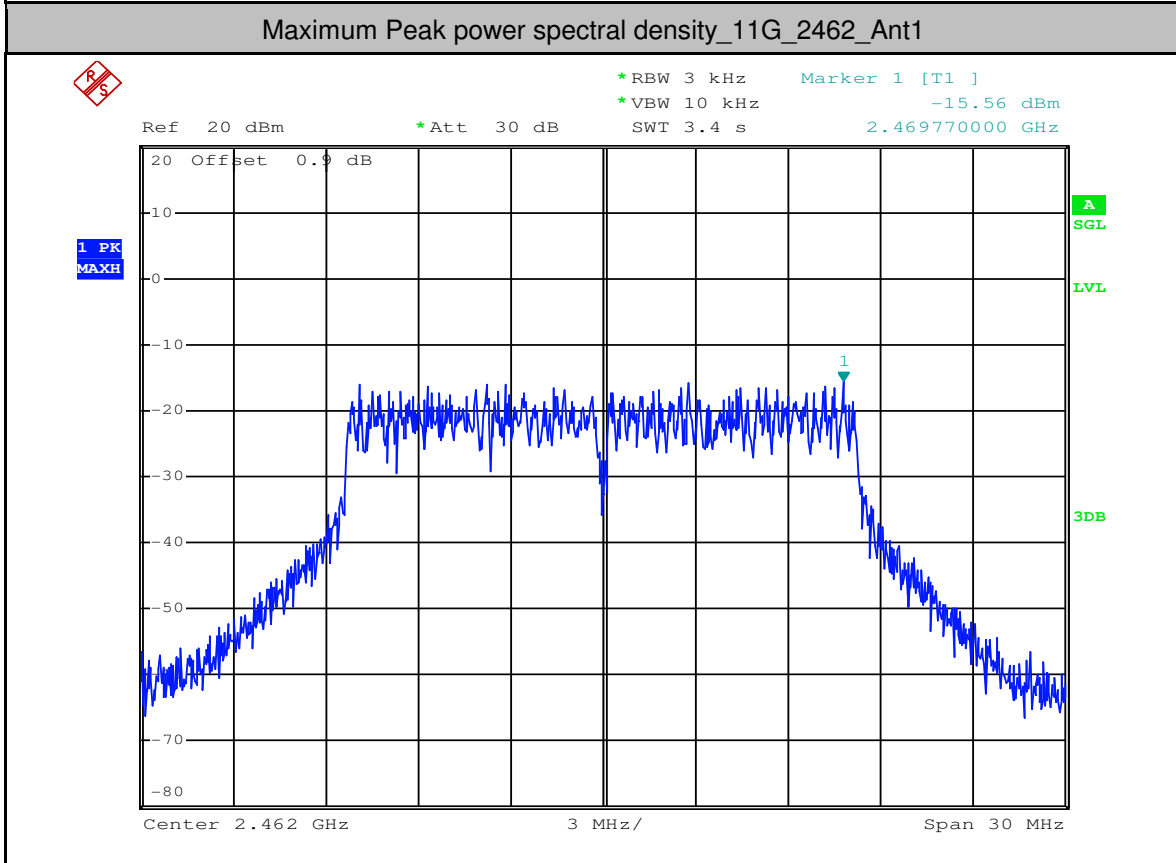
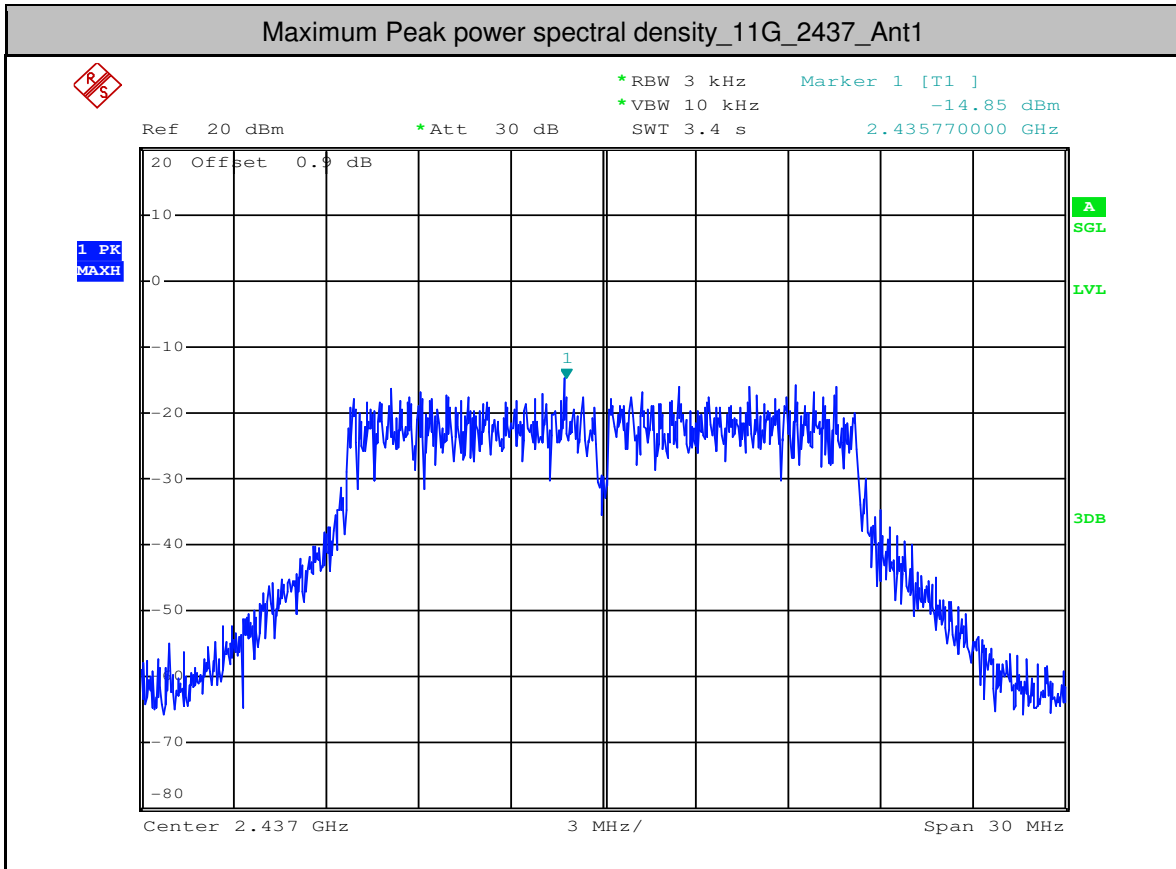


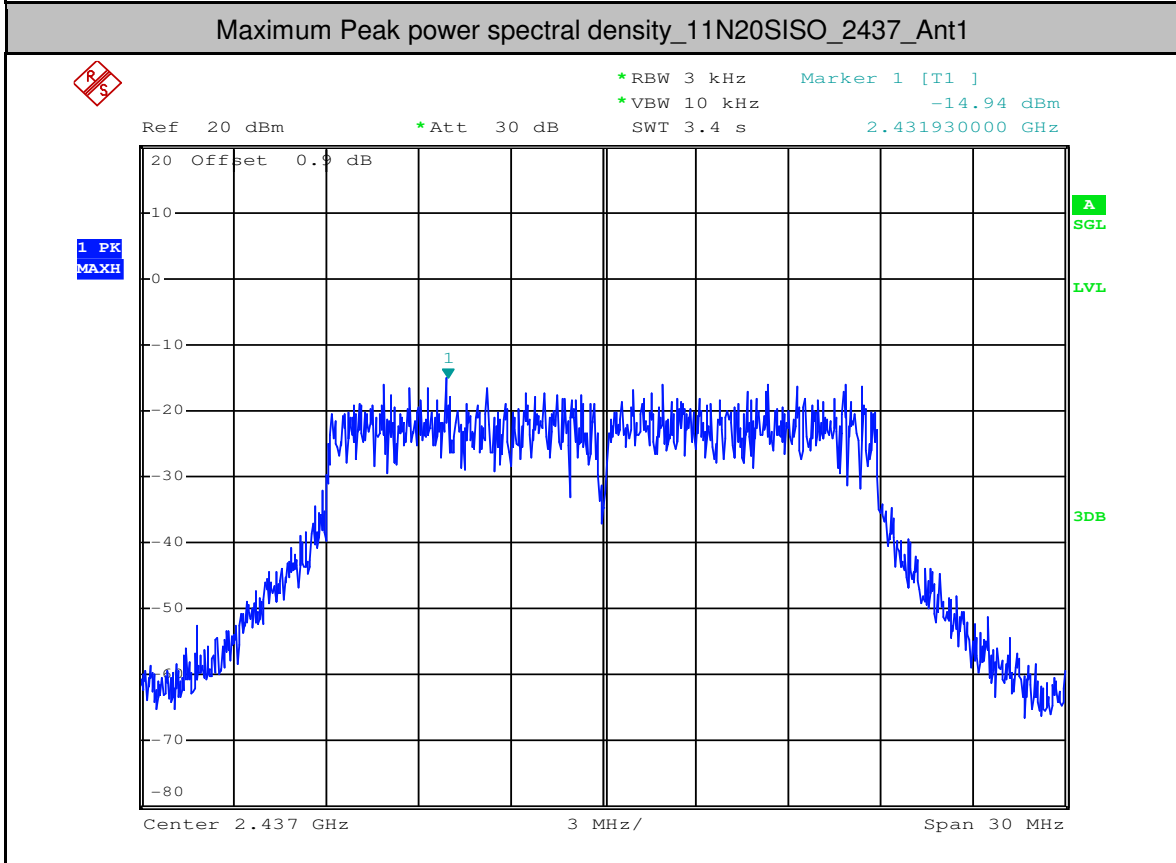
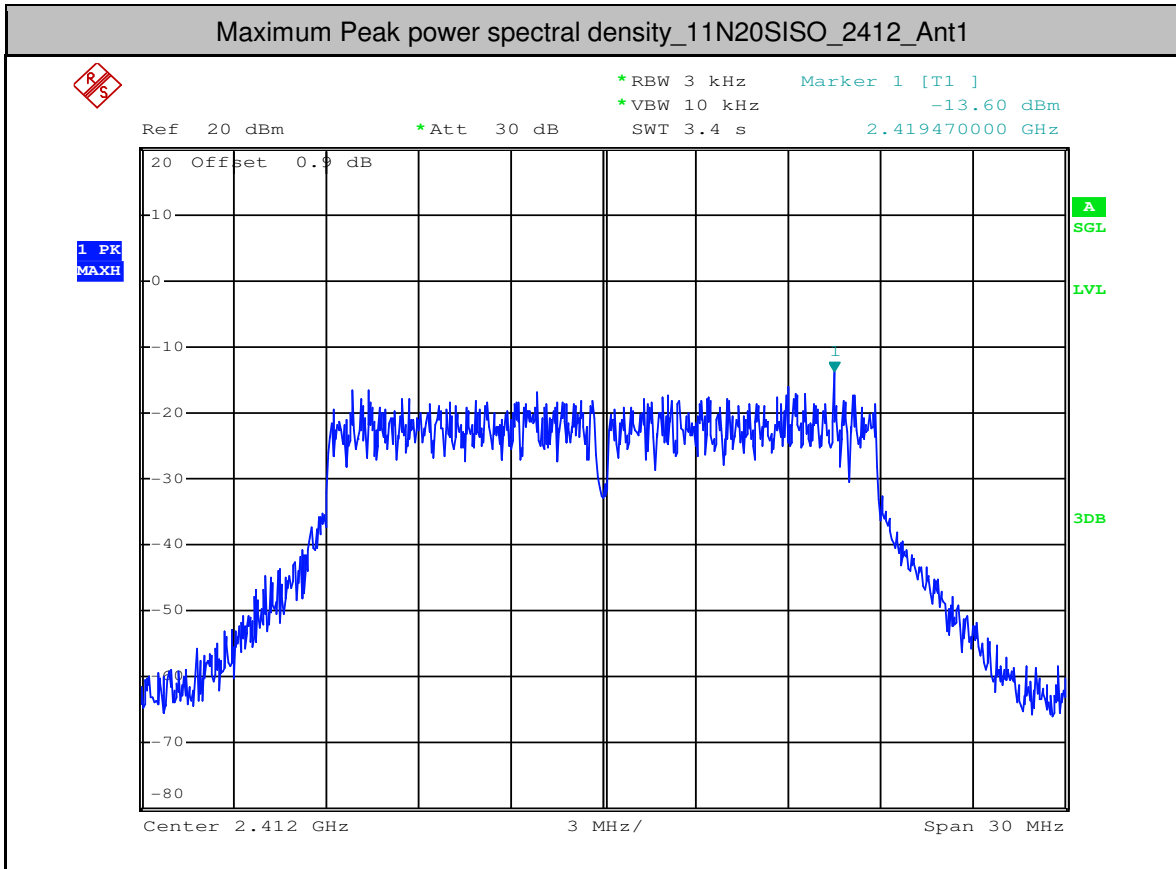
Maximum Peak power spectral density_11B_2437_Ant1

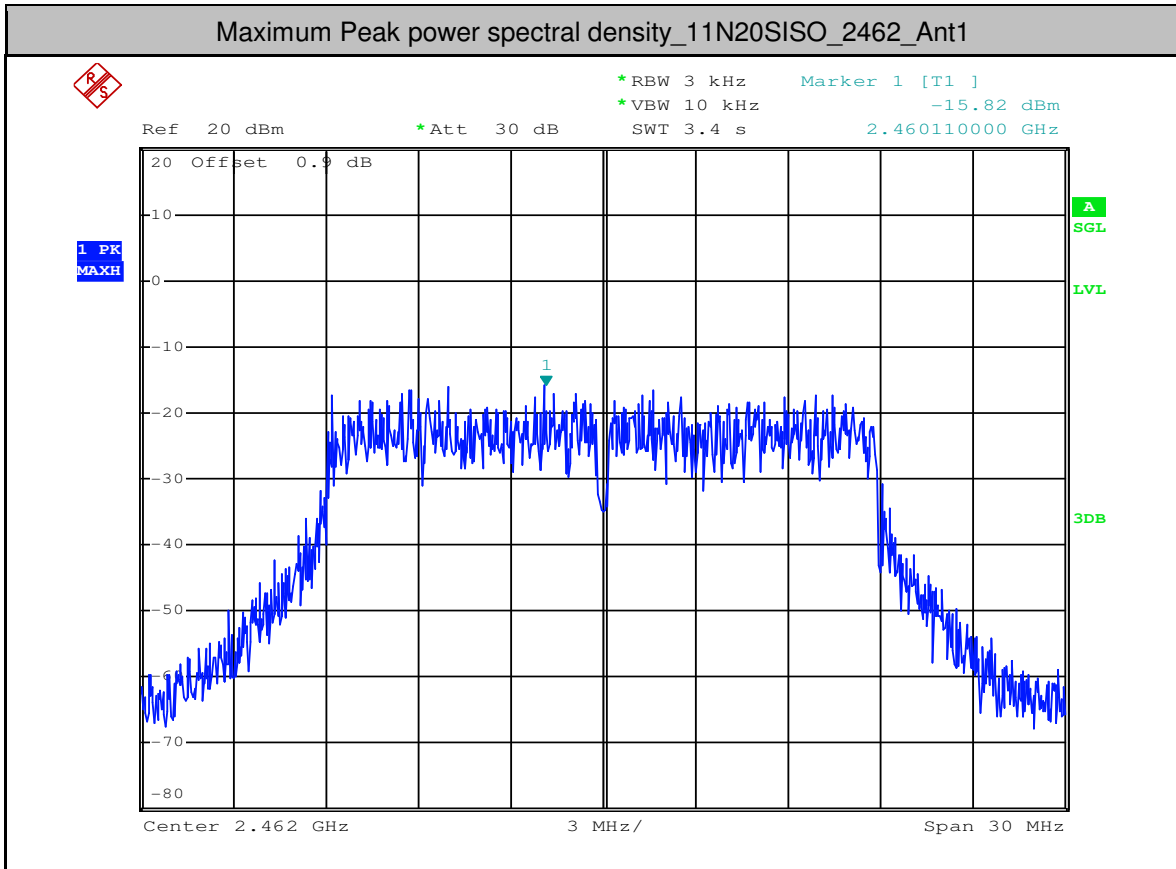




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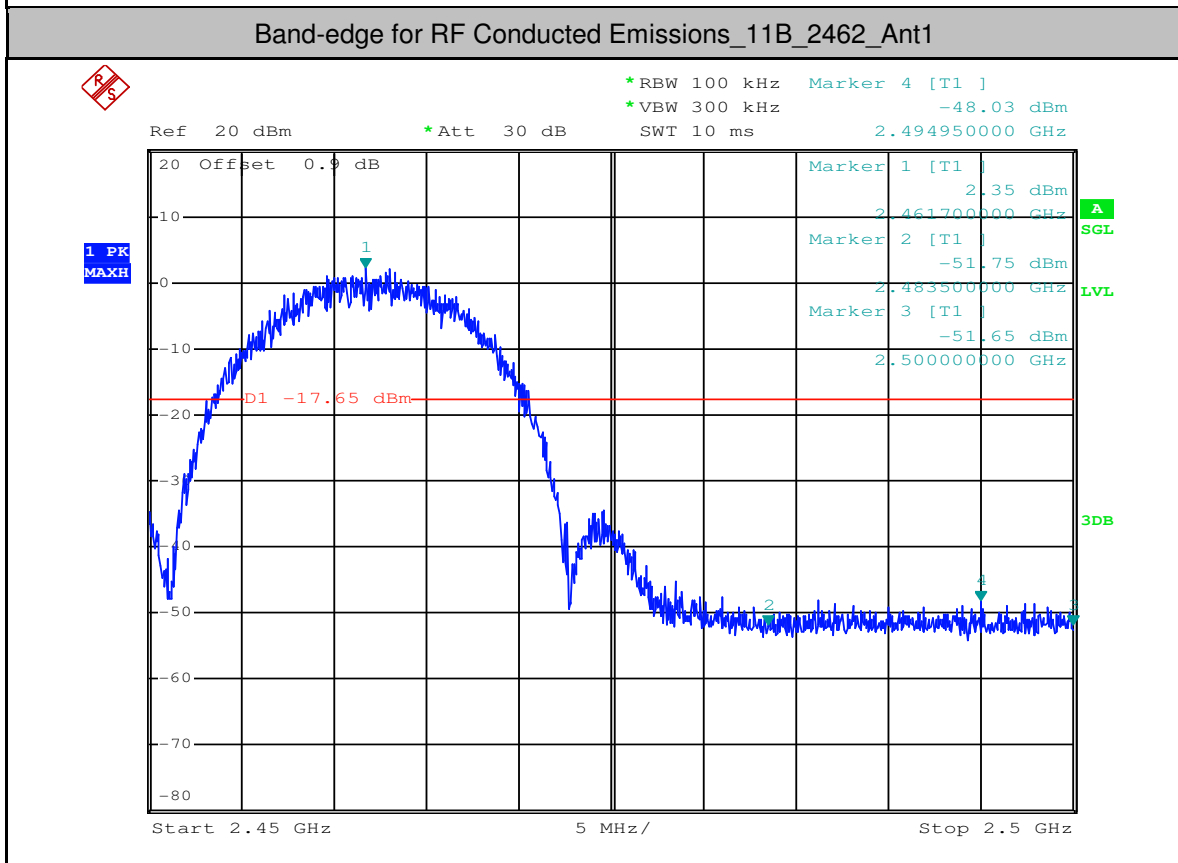
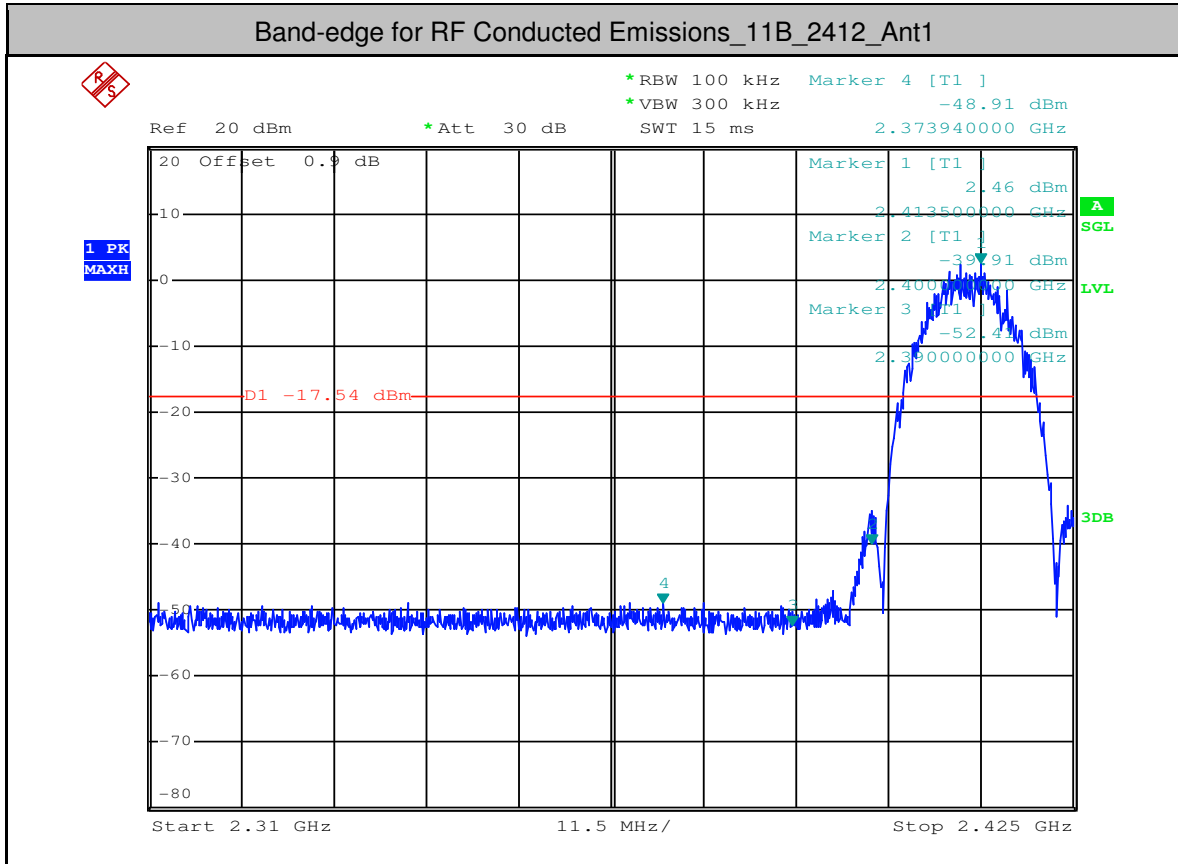


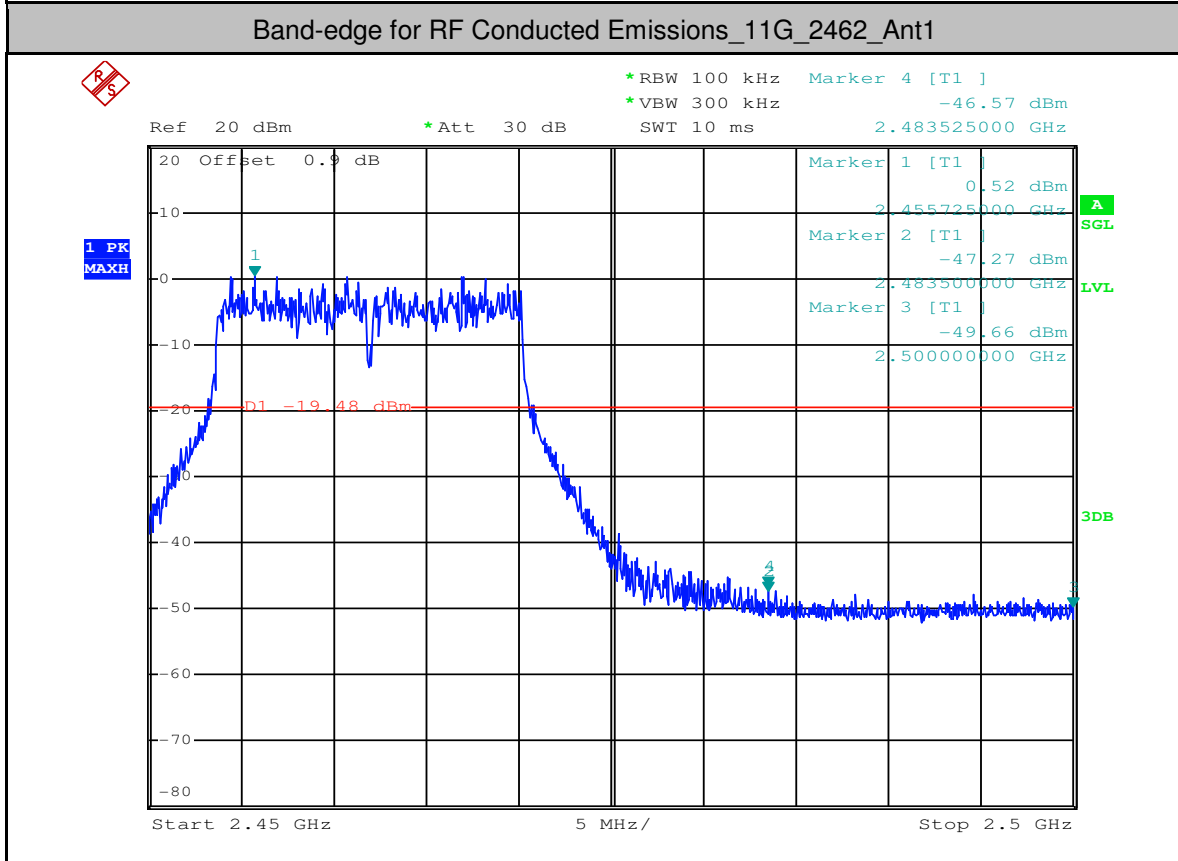
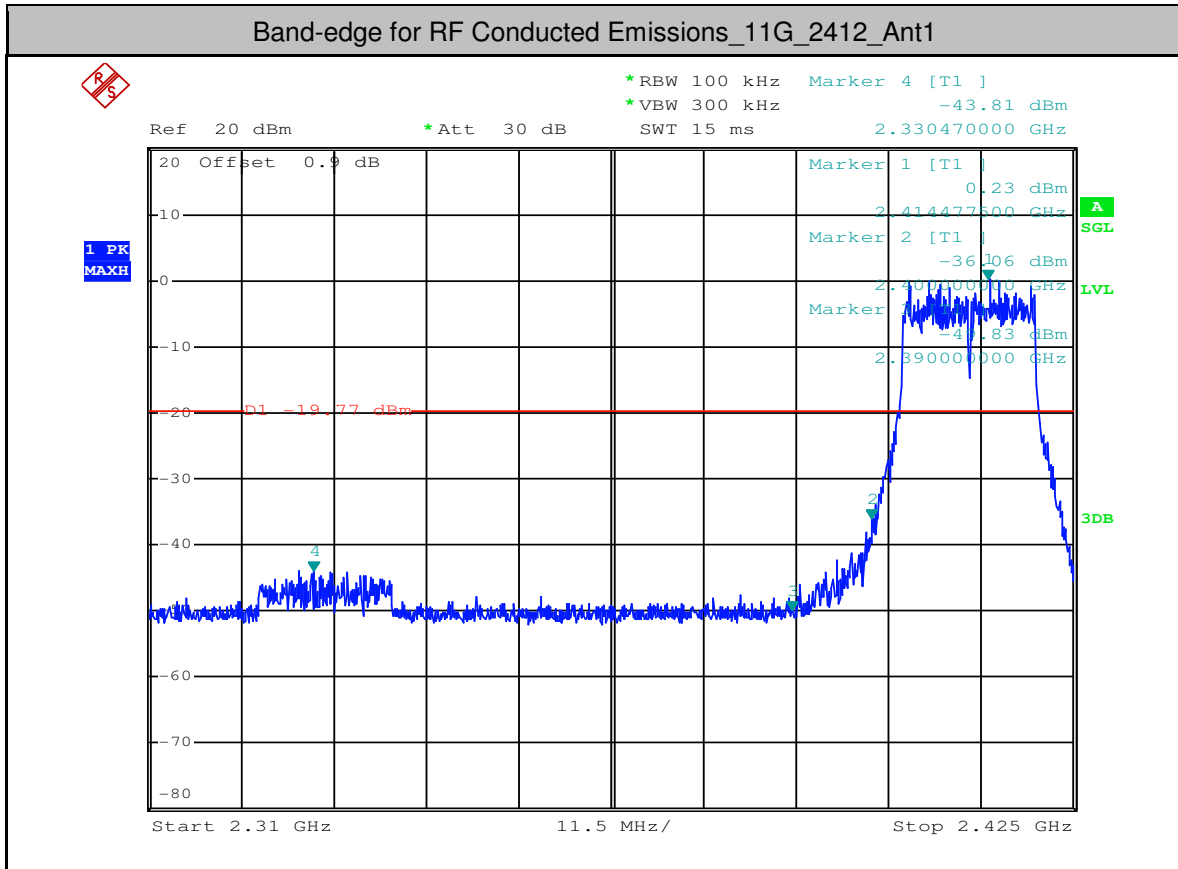


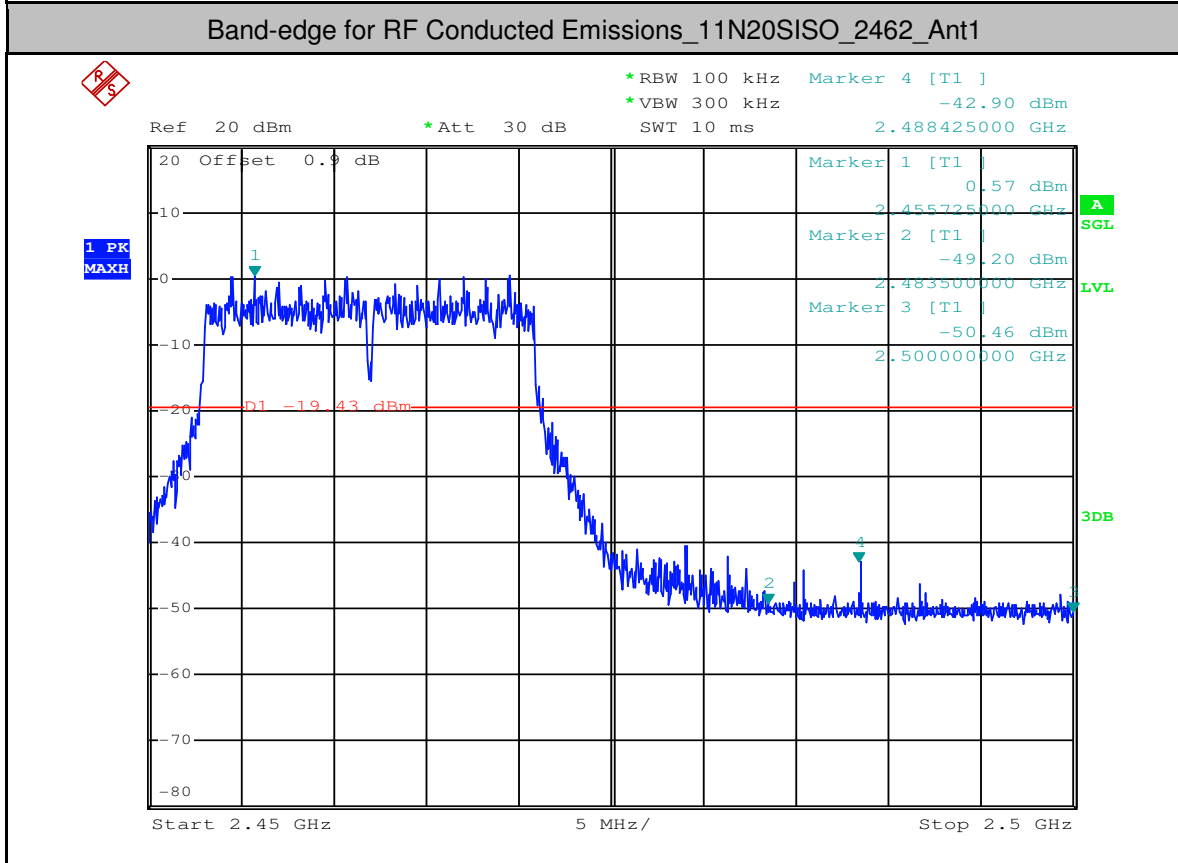
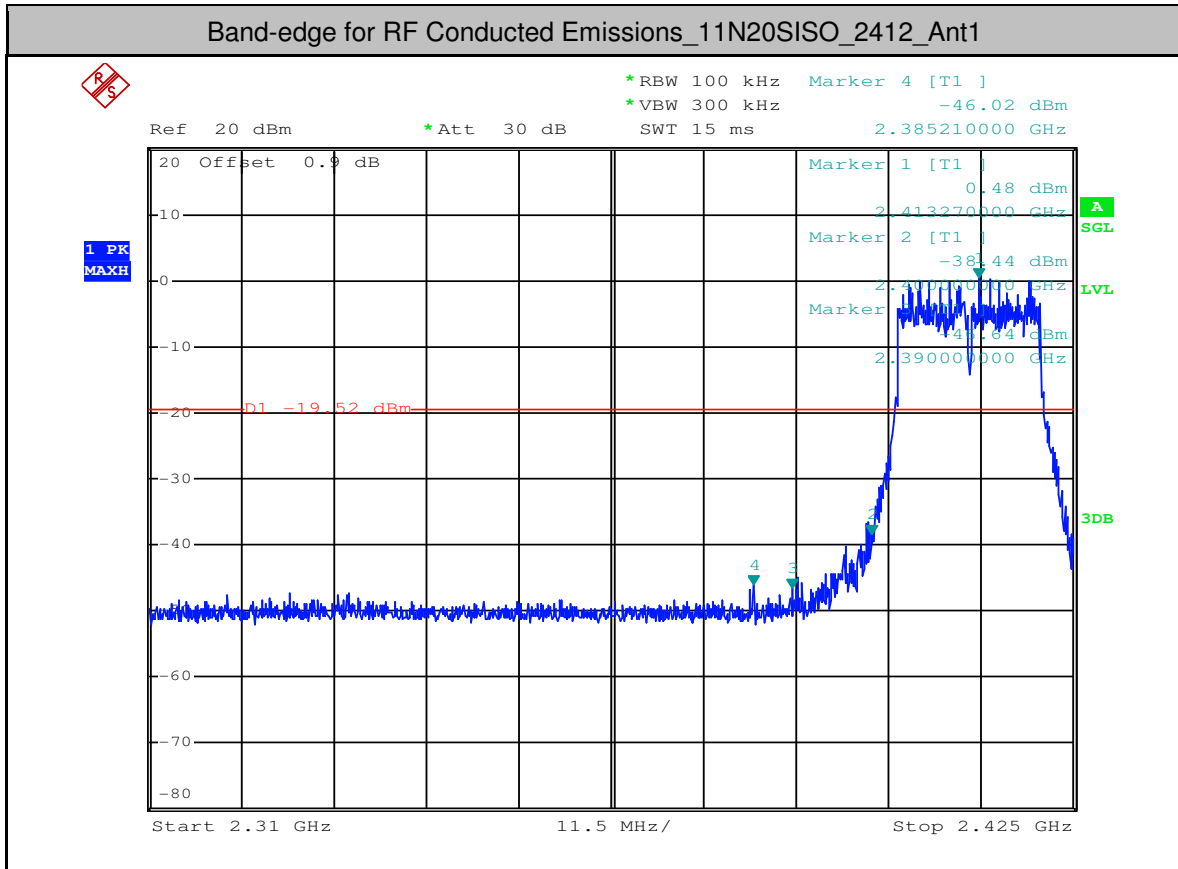


5. Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	2.460	-48.914	<-17.54	PASS
11B	2462	Ant1	2.350	-48.032	<-17.65	PASS
11G	2412	Ant1	0.230	-43.808	<-19.77	PASS
11G	2462	Ant1	0.520	-46.573	<-19.48	PASS
11N20SISO	2412	Ant1	0.480	-46.024	<-19.52	PASS
11N20SISO	2462	Ant1	0.570	-42.901	<-19.43	PASS



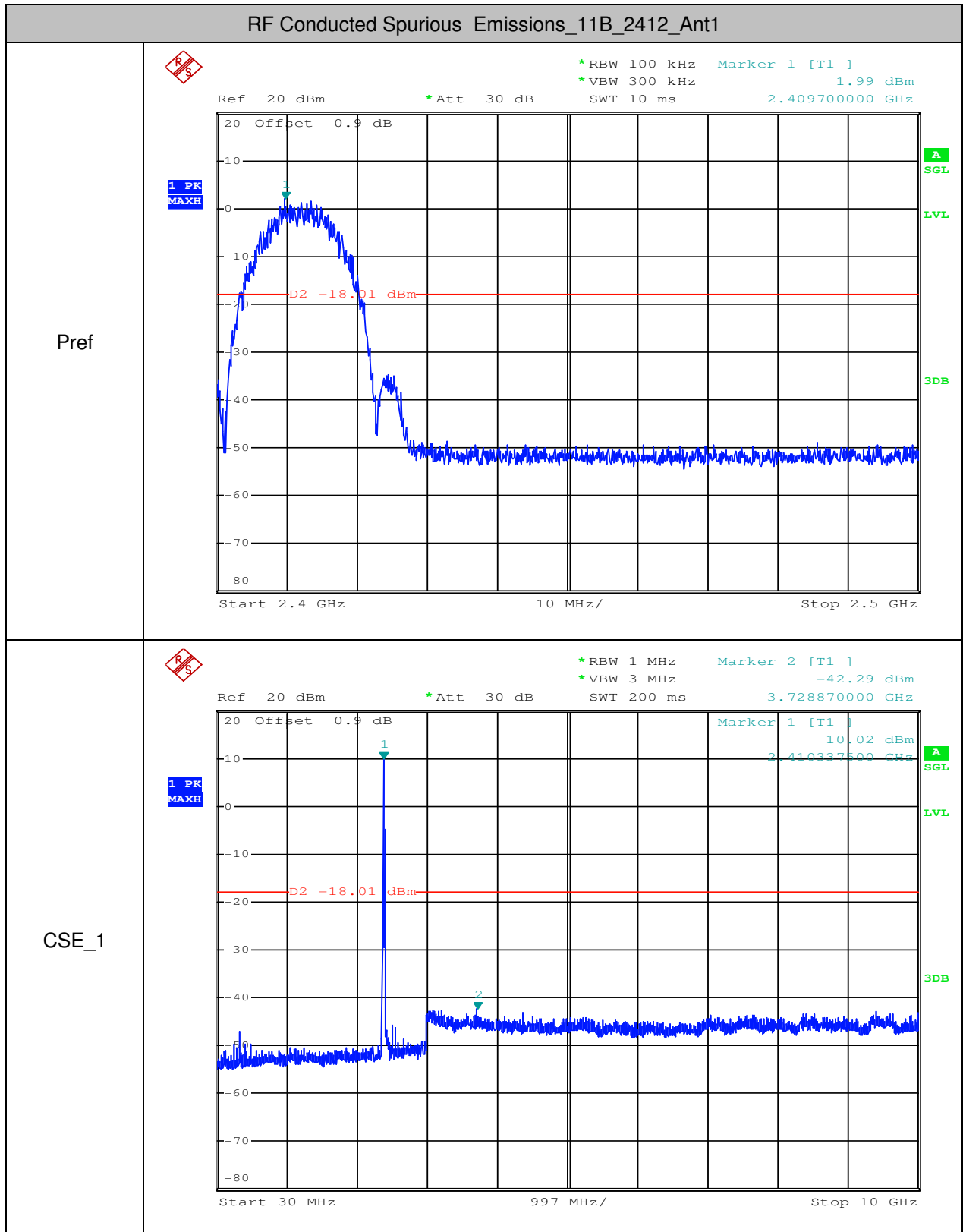


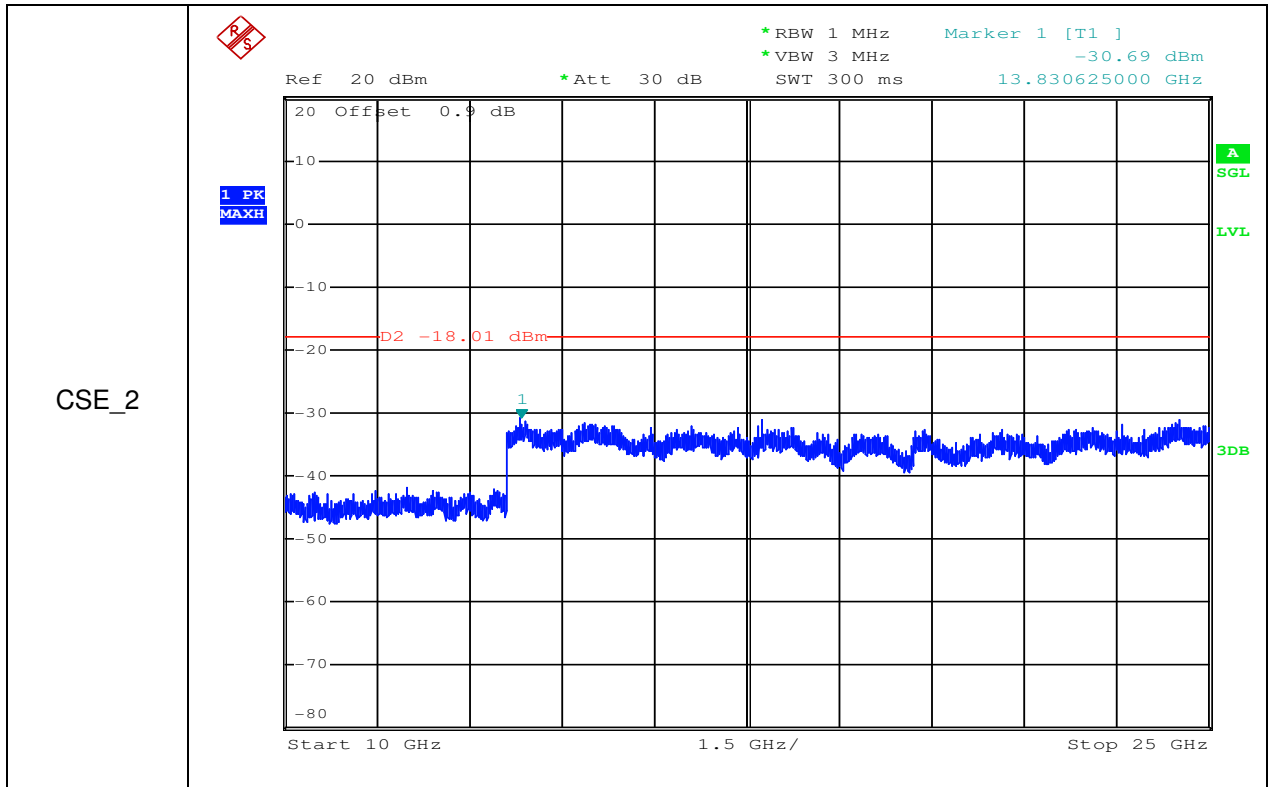




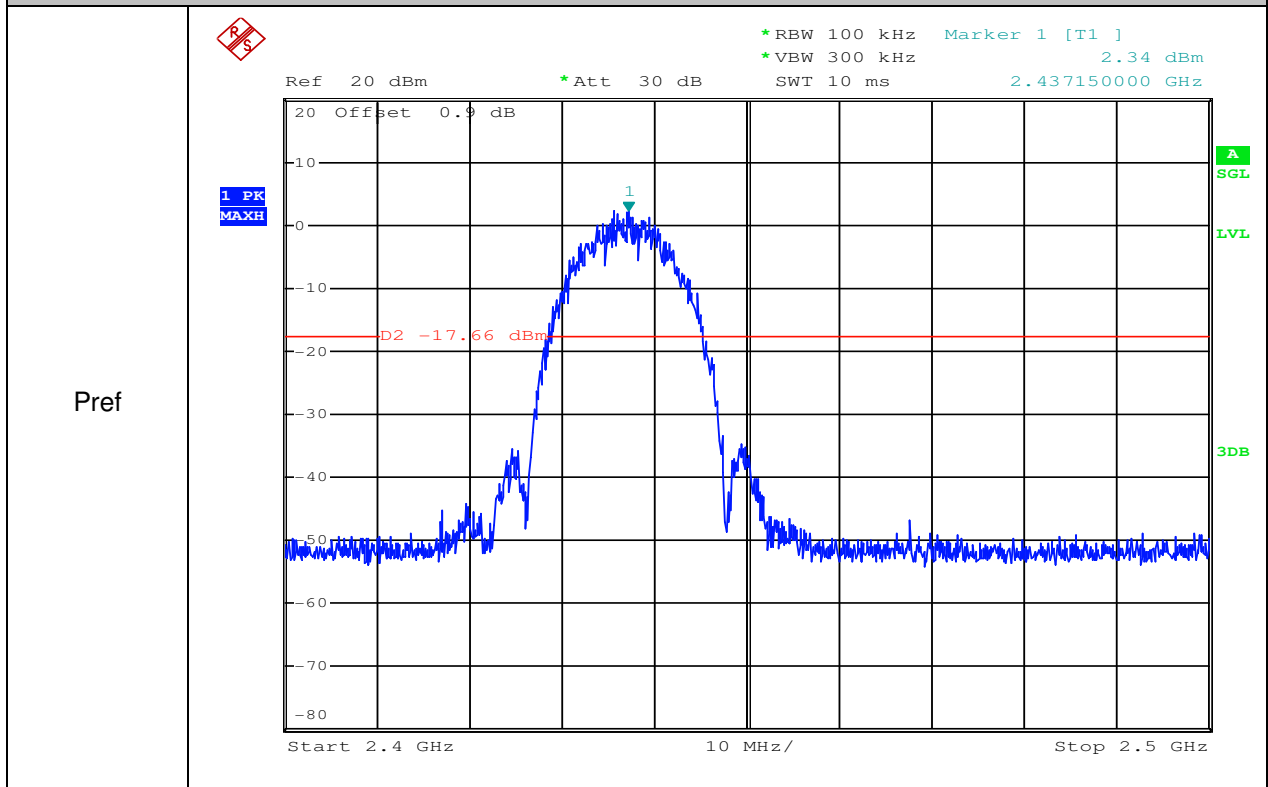
6.RF Conducted Spurious Emissions

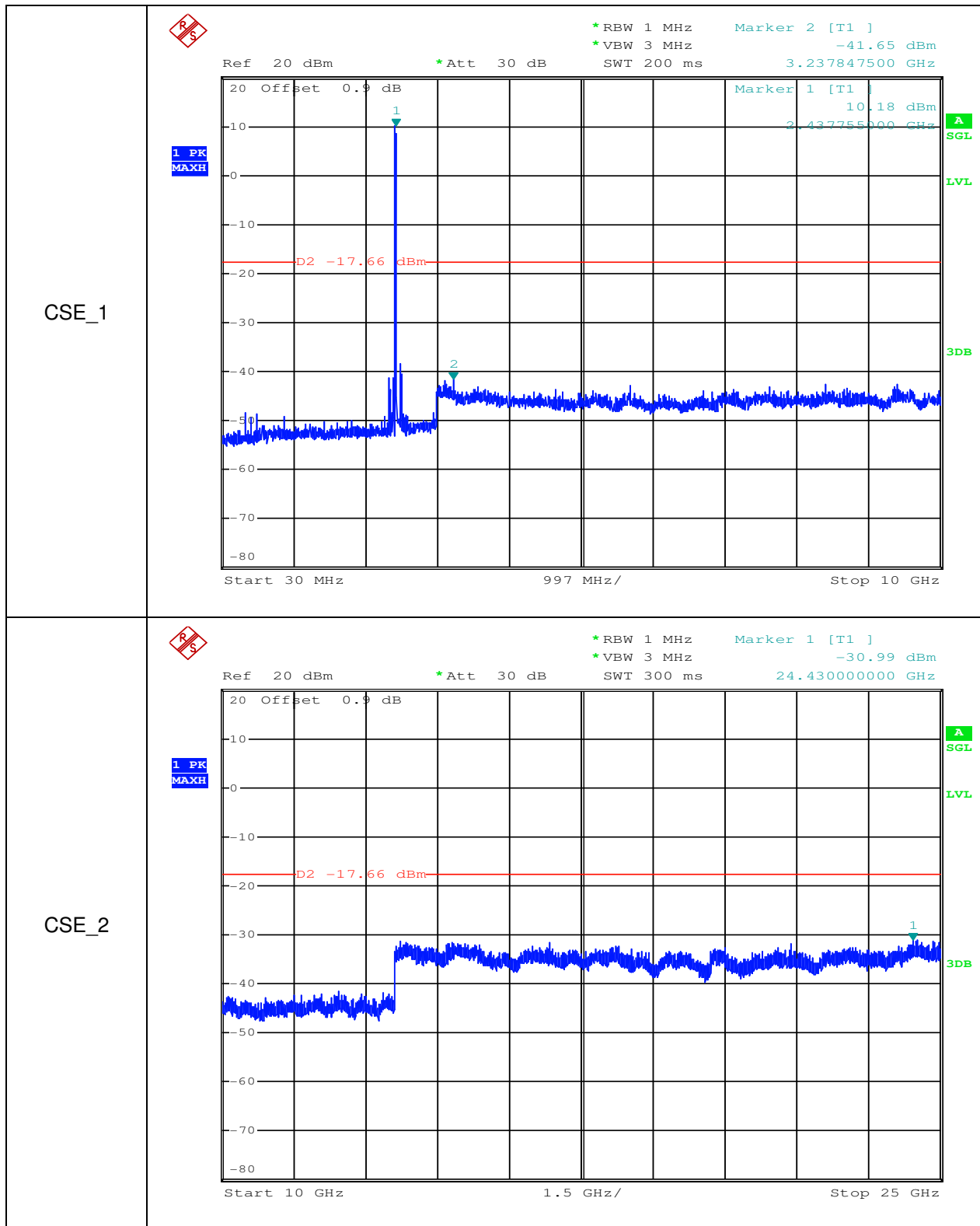
Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	2412	30	10000	1000	3000	1.99	-42.290	<-18.01	PASS
11B	2412	10000	25000	1000	3000	1.99	-30.690	<-18.01	PASS
11B	2437	30	10000	1000	3000	2.34	-41.650	<-17.66	PASS
11B	2437	10000	25000	1000	3000	2.34	-30.990	<-17.66	PASS
11B	2462	30	10000	1000	3000	1.42	-41.630	<-18.58	PASS
11B	2462	10000	25000	1000	3000	1.42	-31.110	<-18.58	PASS
11G	2412	30	10000	1000	3000	0.34	-40.710	<-19.66	PASS
11G	2412	10000	25000	1000	3000	0.34	-30.090	<-19.66	PASS
11G	2437	30	10000	1000	3000	0.56	-41.990	<-19.44	PASS
11G	2437	10000	25000	1000	3000	0.56	-30.510	<-19.44	PASS
11G	2462	30	10000	1000	3000	0.48	-42.240	<-19.52	PASS
11G	2462	10000	25000	1000	3000	0.48	-31.440	<-19.52	PASS
11N20SISO	2412	30	10000	1000	3000	0.79	-42.220	<-19.21	PASS
11N20SISO	2412	10000	25000	1000	3000	0.79	-30.630	<-19.21	PASS
11N20SISO	2437	30	10000	1000	3000	0.09	-42.120	<-19.91	PASS
11N20SISO	2437	10000	25000	1000	3000	0.09	-31.000	<-19.91	PASS
11N20SISO	2462	30	10000	1000	3000	0.76	-42.290	<-19.24	PASS
11N20SISO	2462	10000	25000	1000	3000	0.76	-30.590	<-19.24	PASS

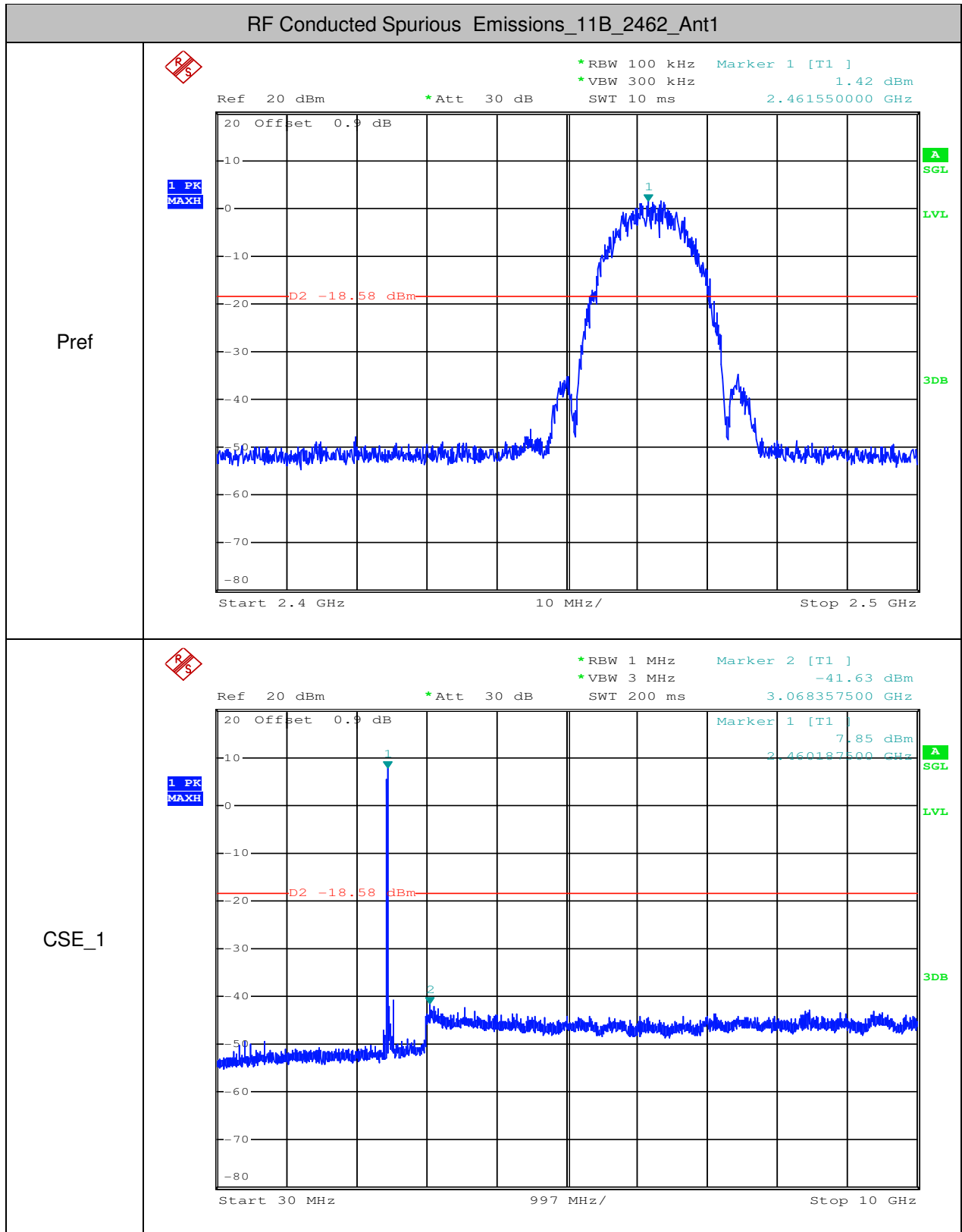


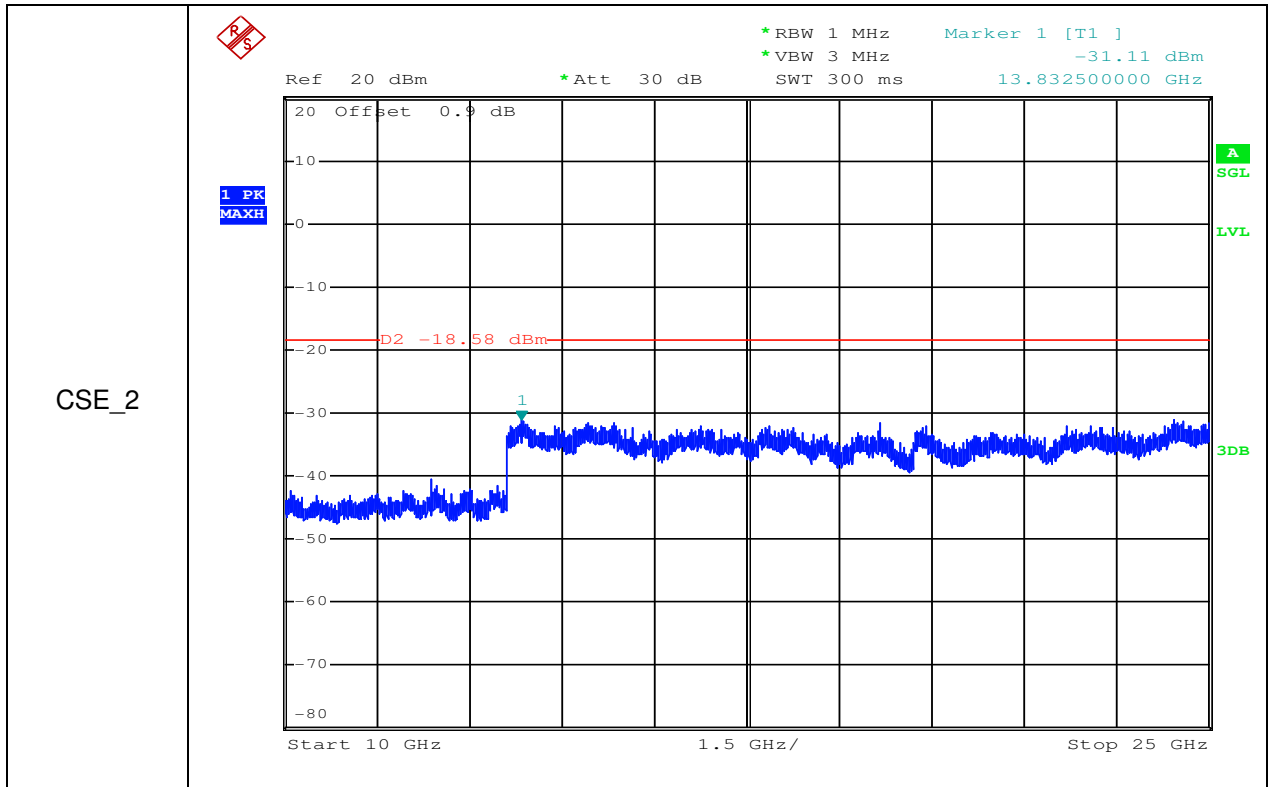


RF Conducted Spurious Emissions_11B_2437_Ant1

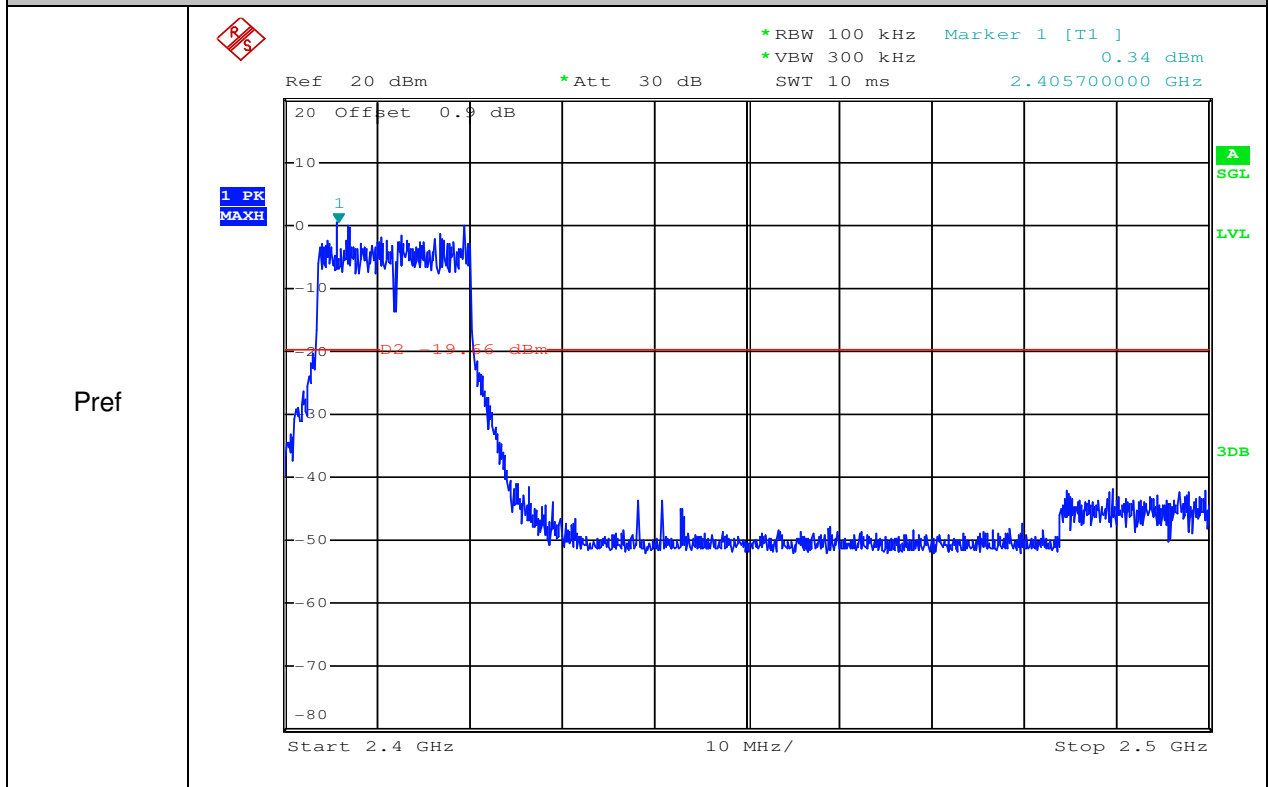


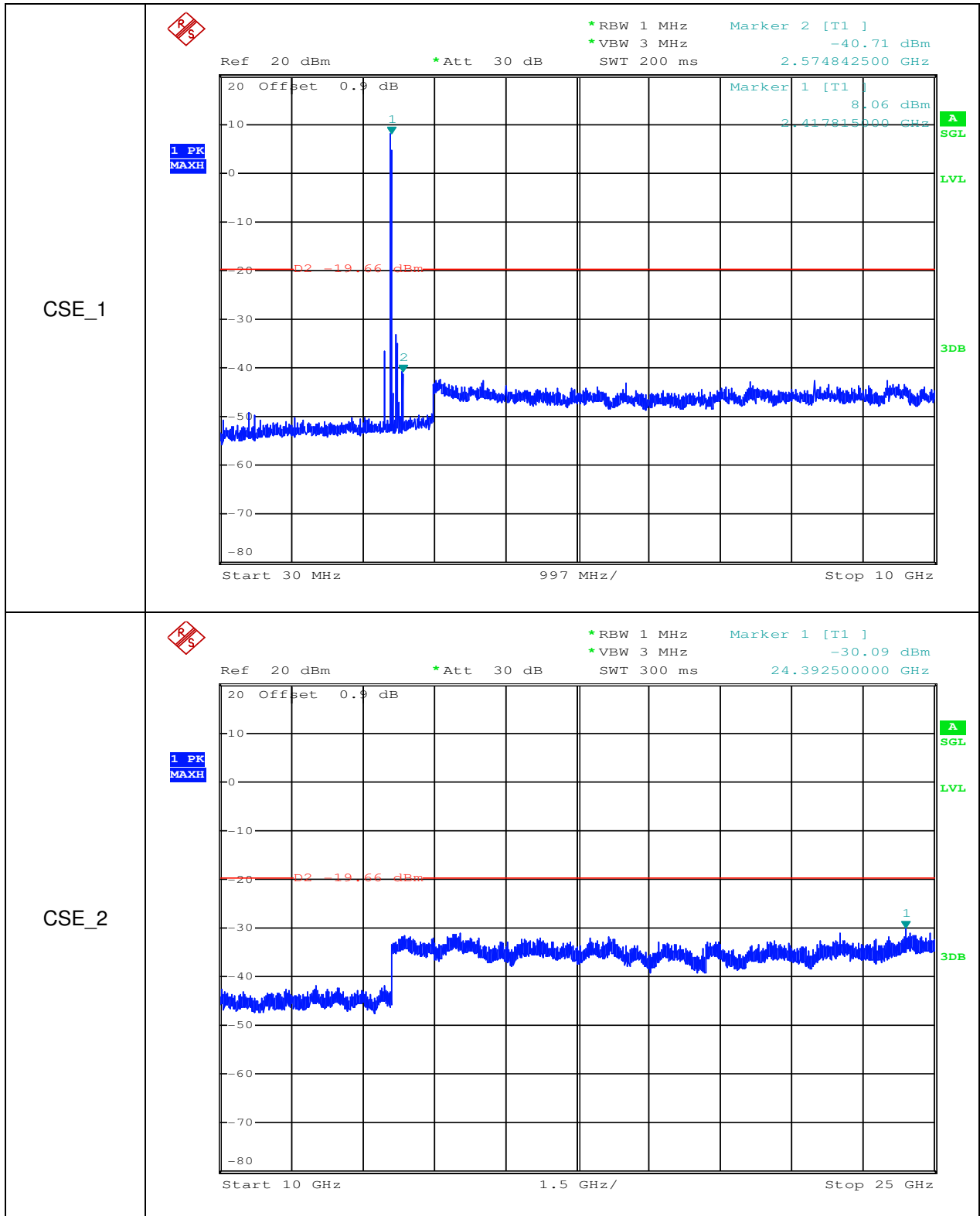


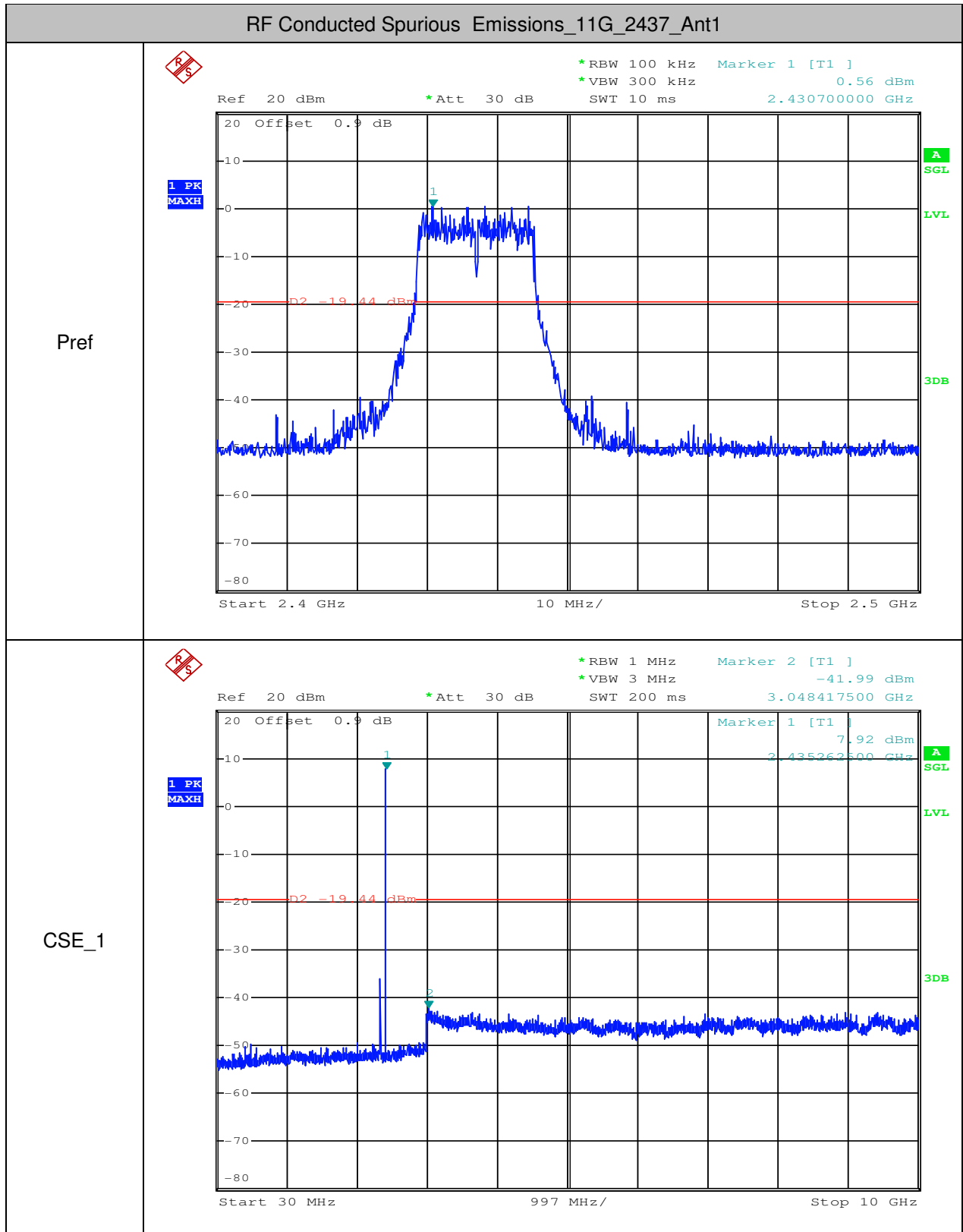


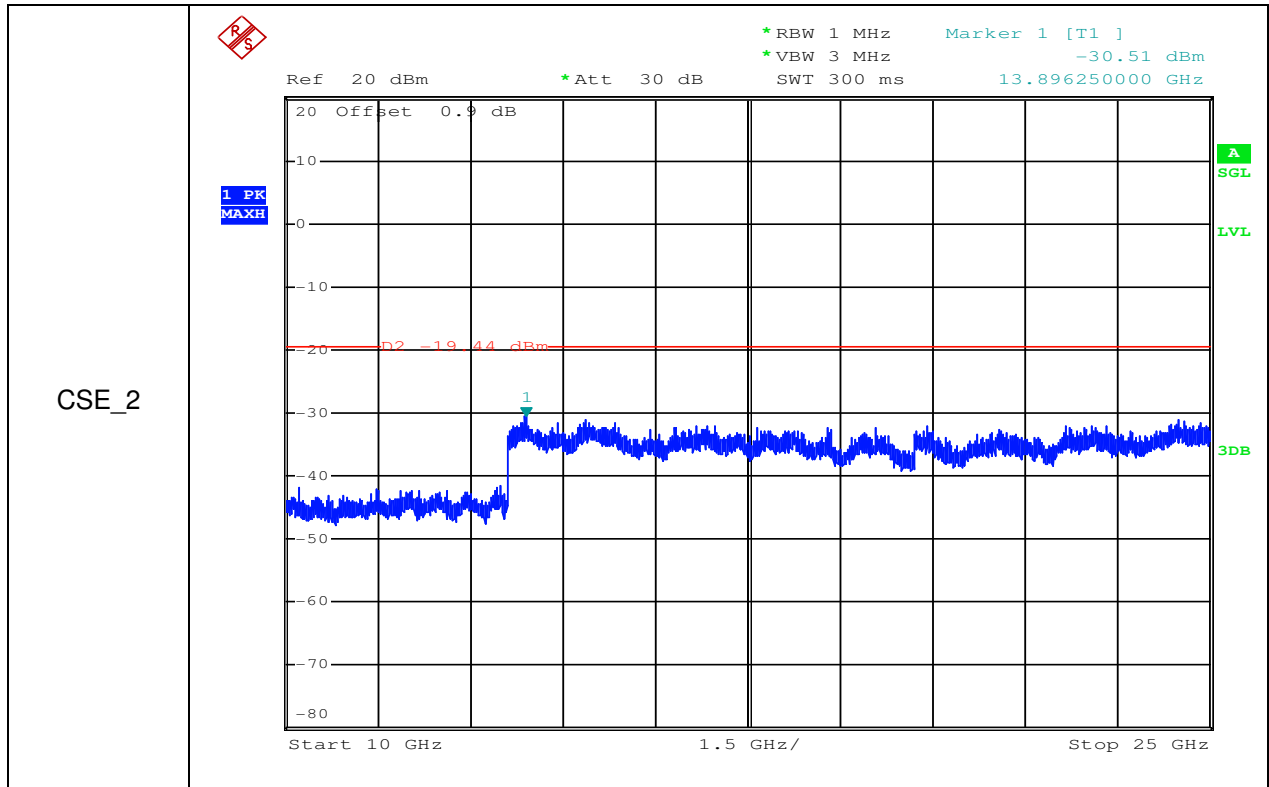


RF Conducted Spurious Emissions_11G_2412_Ant1

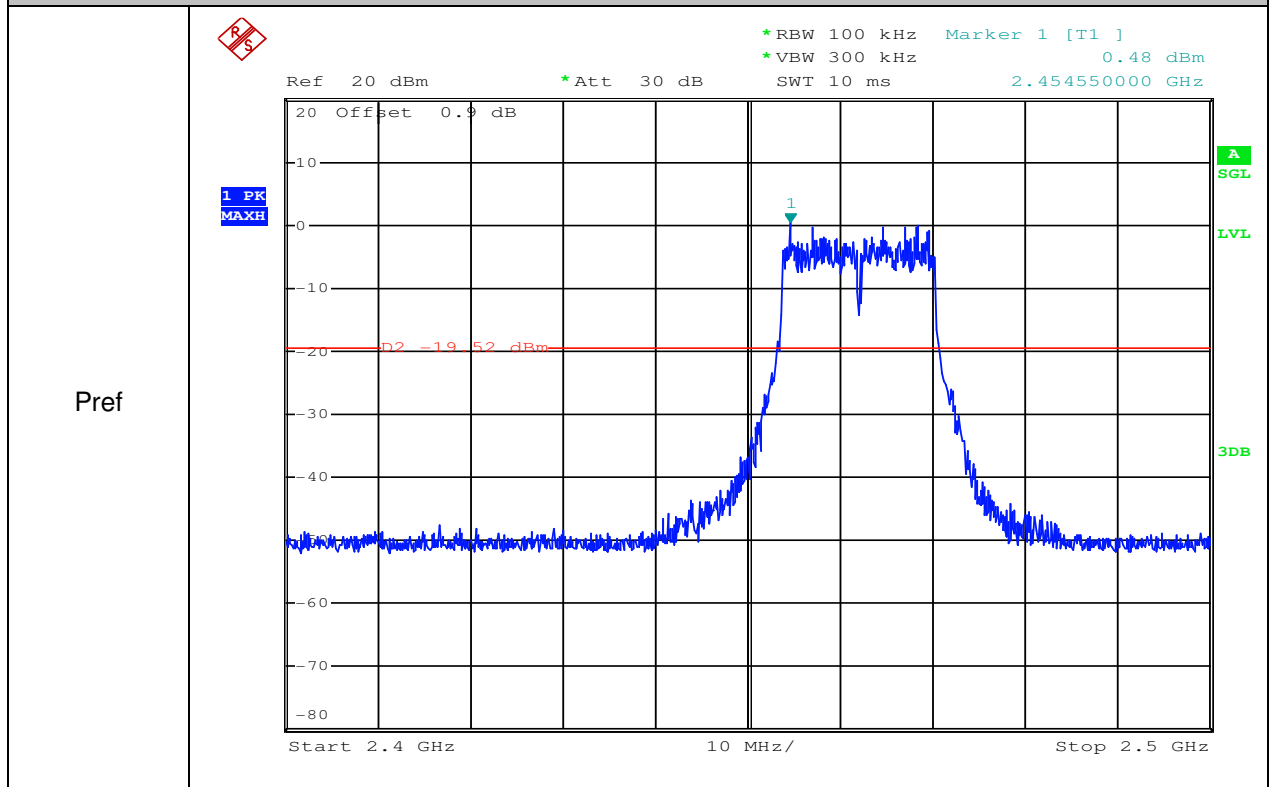


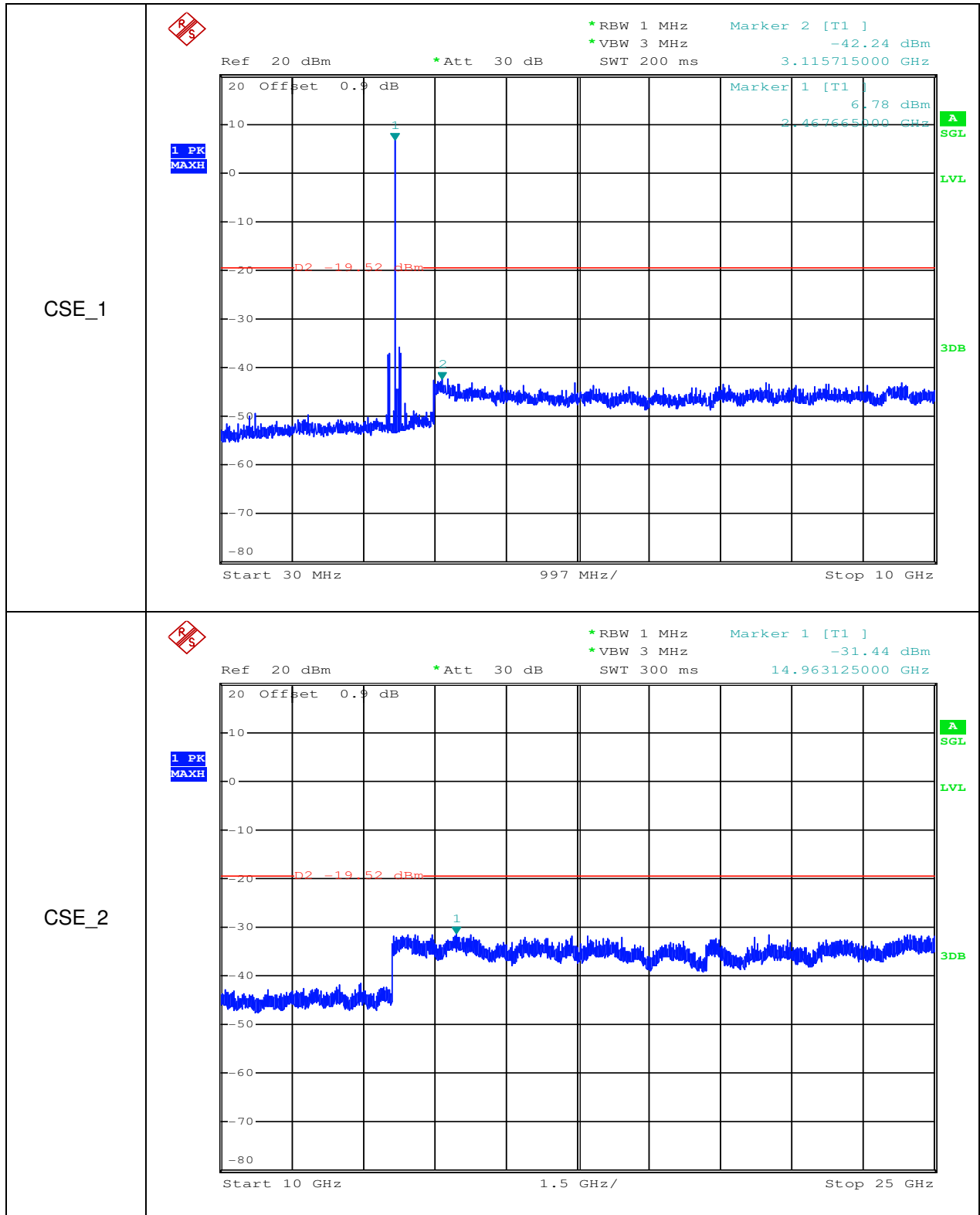


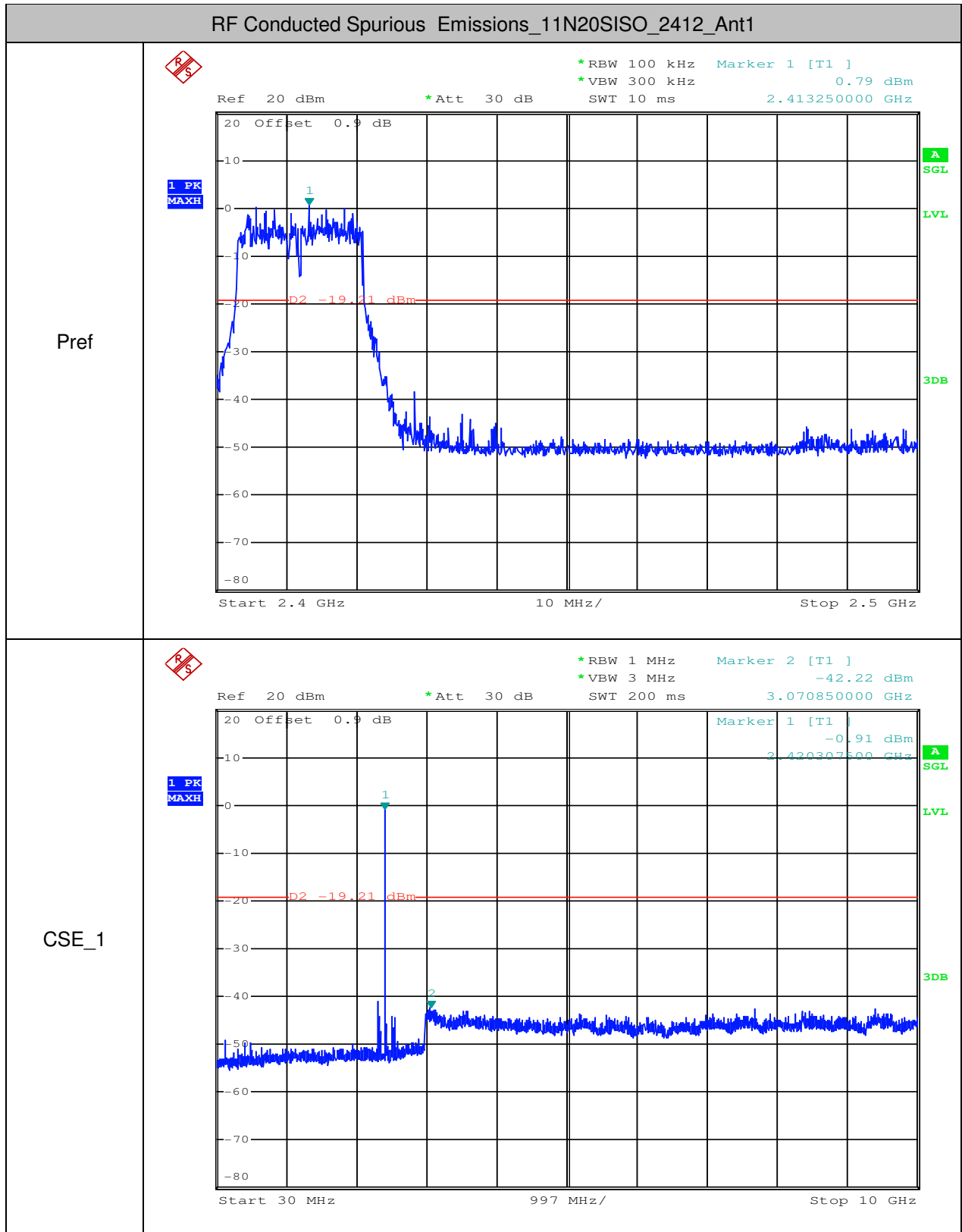


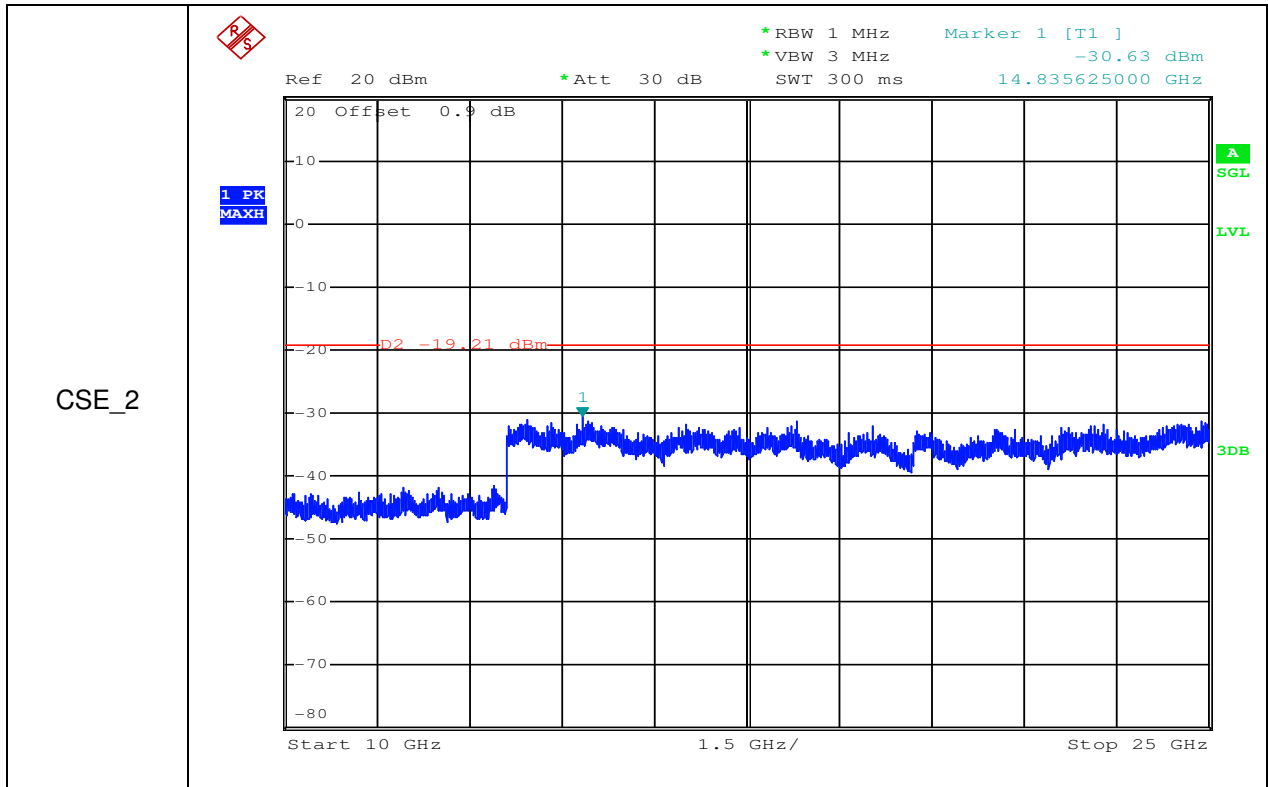


RF Conducted Spurious Emissions_11G_2462_Ant1









RF Conducted Spurious Emissions_11N20SISO_2437_Ant1

