

TEST REPORT**Application No.:**

SZCR2504001683TL

Applicant:

KE2 Therm Solutions, Inc.

Address of Applicant:

12 Chamber Drive, Washington, MO, 63090, United States

Manufacturer:

KE2 Therm Solutions, Inc.

Address of Manufacturer:

12 Chamber Drive, Washington, MO, 63090, United States

Equipment Under Test (EUT):**EUT Name:** KE2 Edge Manager Cell 2**Model No.:** KE2-EM Cell 2**Trade Mark:****FCC ID:** 2AOPR-22245**Standard(s) :** 47 CFR Part 15, Subpart C 15.247**Date of Receipt:** 2025-04-28**Date of Test:** 2025-05-07 to 2025-05-14**Date of Issue:** 2025-06-18**Test Result:**

Pass*

* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

EMC Laboratory Manager



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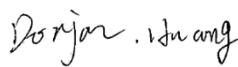
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SZEMC-TRF-01 Rev. A/1

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-06-18		Original

Authorized for issue by:			
			
		Donjon Huang/Project Engineer	
			
		Eric Fu/Reviewer	

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2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Remark:

Model No.: KE2-EM Cell 2

This test report (reference number: SZCR250400168303) is based on FCC ID: 2AOPR-22245 applying for C2PC.

According to the applicant's statement, the samples in this report have been assessed to identify items that may affect the original test report results for comprehensive retesting.

Therefore in this report the section 2 items were fully retested on model and shown the data in this report, other tests please refer to original ID 2AOPR-22245.

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4 General Information

4.1 Details of E.U.T.

Power supply:	Adapter Model: ICP30A-120-2500 Input: AC 100-240V 50/60Hz 0.8A Output: DC 12V 2.5A.
Cable(s):	DC cable:100cm unshielded Network cable:70cm unshielded
Operation Frequency:	802.11b/g/n(HT20)/ax(HEW20): 2412MHz to 2462MHz,802.11n(HT40)/ax(HEW40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK); 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11ax: OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM,256QAM, 1024QAM)
Number of Channels:	802.11b/g/n(HT20)/ax(HEW20): 11, 802.11n(HT40)/ax(HEW40):7
Channel Spacing:	5MHz
Antenna Type:	Dipole Antenna
Antenna Gain:	ANT1: 1.63dBi; ANT2: 1.7dBi; Directional Gain:4.71dBi.
Antenna Number:	2

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
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The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18-40GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

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No tests were sub-contracted.

4.5 Test Facility

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

- **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 (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-07	2026-01-06
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-01-07	2026-01-06
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-07	2026-01-06
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-01-07	2026-01-06
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-01-08	2026-01-07
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

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Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02

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6 Radio Spectrum Matter Test Results

6.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) 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.

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 50.6 % RH Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report

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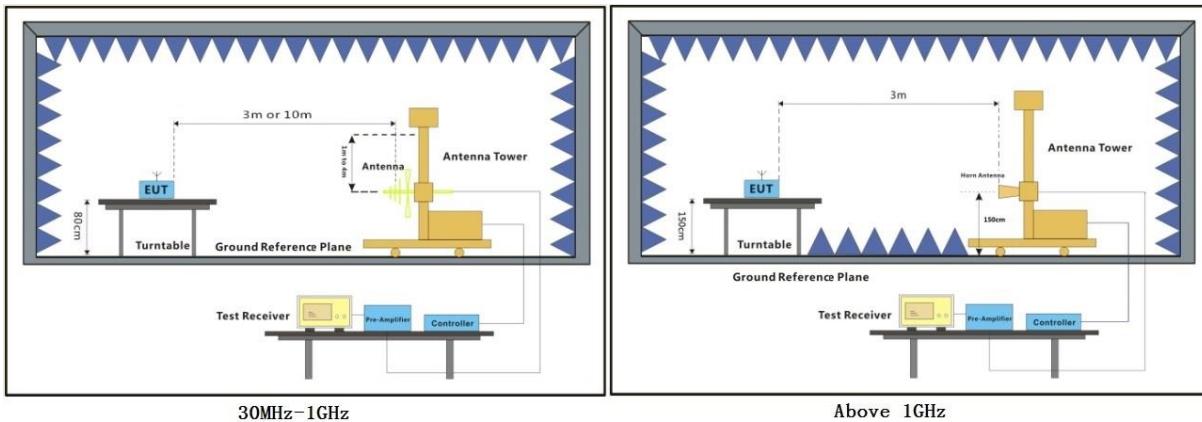
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6.1.3 Test Setup Diagram



30MHz-1GHz

Above 1GHz



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6.1.4 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 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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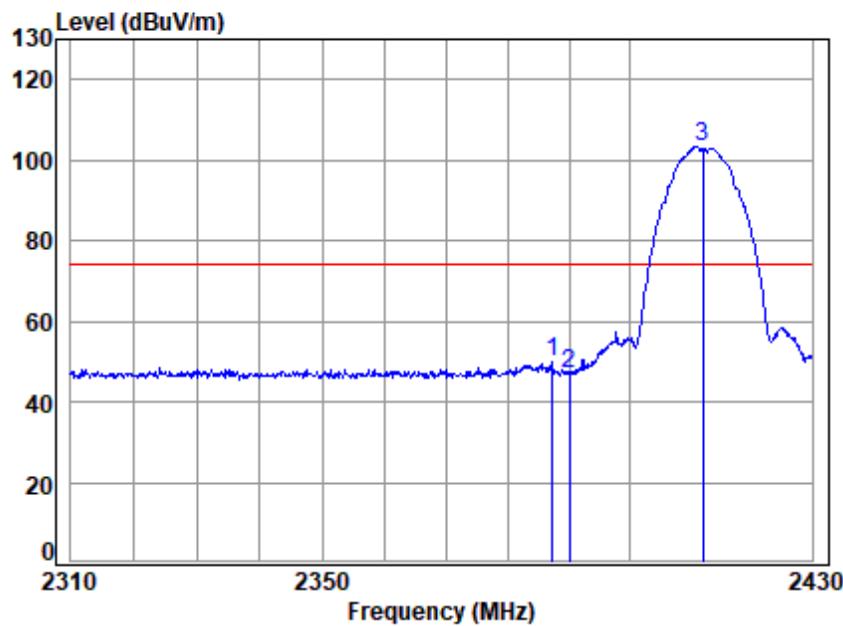
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01683TL/01684TL

Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2387.307	6.82	27.45	31.54	46.95	49.68	74.00	-24.32 peak
2	2390.000	6.82	27.46	31.54	44.14	46.88	74.00	-27.12 peak
3 pp	2412.000	6.91	27.52	31.54	100.43	103.32	74.00	29.32 peak

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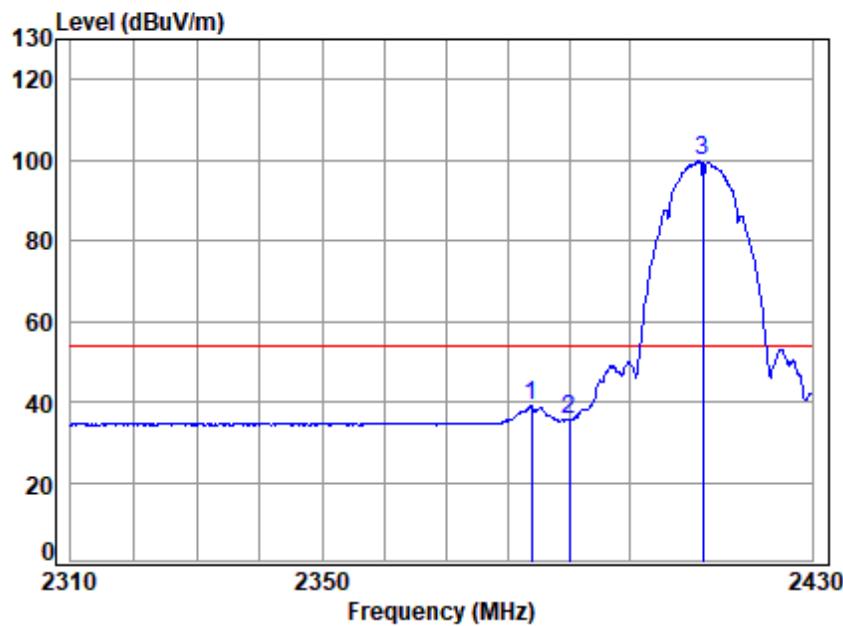
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01683TL/01684TL

Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2383.803	6.82	27.44	31.54	36.31	39.03	54.00	-14.97 Average
2	2390.000	6.82	27.46	31.54	32.74	35.48	54.00	-18.52 Average
3 pp	2412.000	6.91	27.52	31.54	96.84	99.73	54.00	45.73 Average

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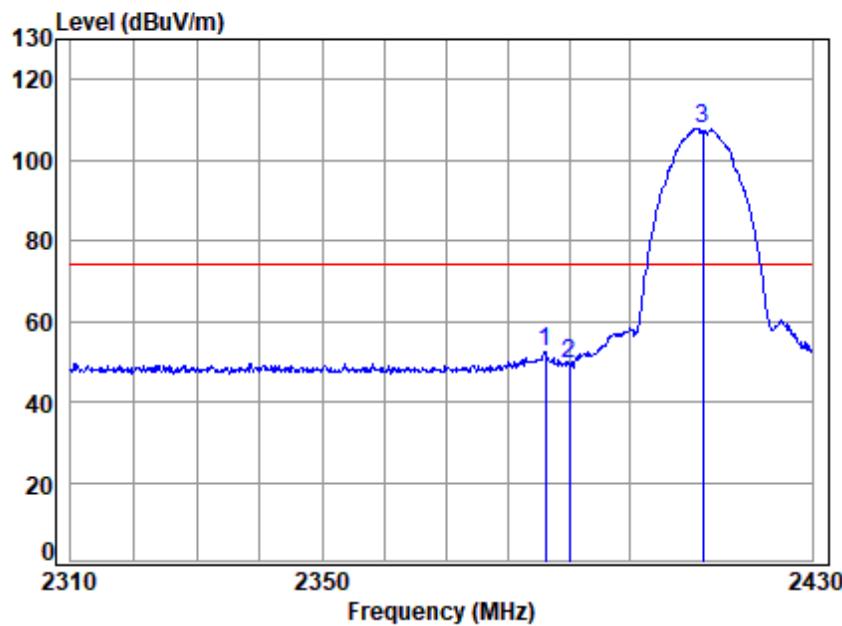
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2386.098	6.82	27.44	31.54	49.44	52.16	74.00	-21.84 Peak
2	2390.000	6.82	27.46	31.54	46.48	49.22	74.00	-24.78 Peak
3 pp	2412.000	6.91	27.52	31.54	104.95	107.84	74.00	33.84 Peak

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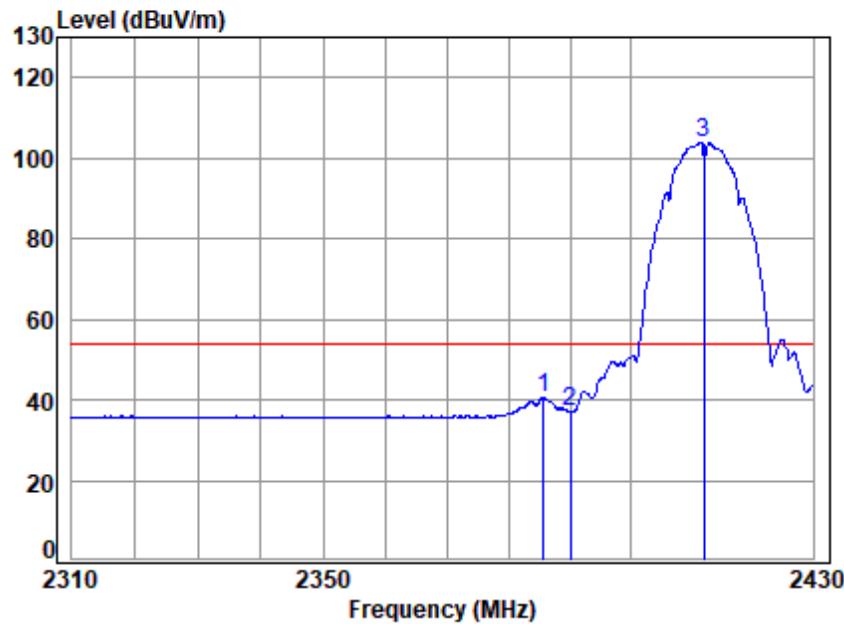
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

Freq	Cable	Ant	Preamp	Read	Limit		Over	Remark
	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2385.615	6.82	27.44	31.54	37.96	40.68	54.00	-13.32 Average
2	2390.000	6.82	27.46	31.54	34.34	37.08	54.00	-16.92 Average
3 pp	2412.000	6.91	27.52	31.54	101.11	104.00	54.00	50.00 Average

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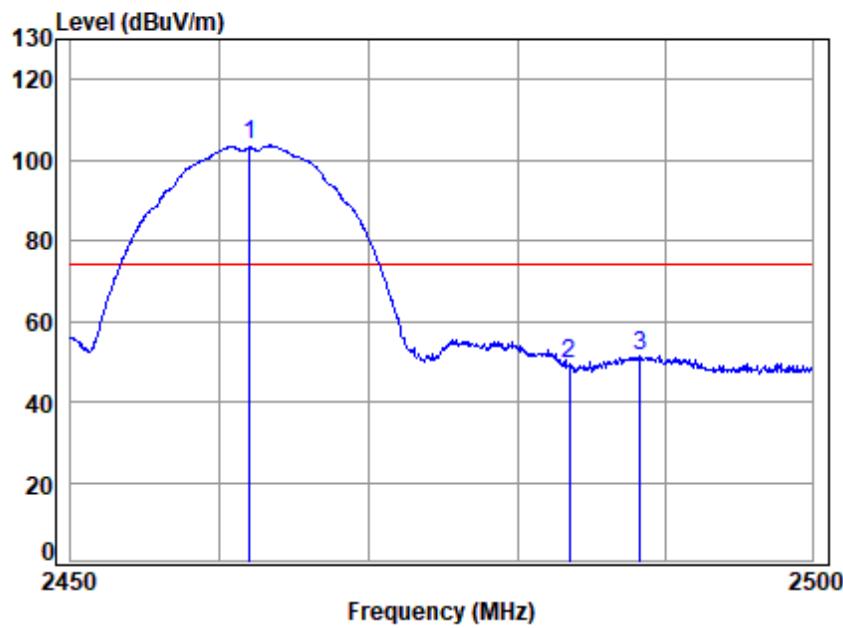
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 01683TL/01684TL

Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
1 pp	2462.000	7.25	27.67	31.55	100.19	103.56	74.00	29.56 peak
2	2483.500	7.40	27.80	31.55	45.67	49.32	74.00	-24.68 peak
3	2488.310	7.43	27.83	31.55	47.68	51.39	74.00	-22.61 peak

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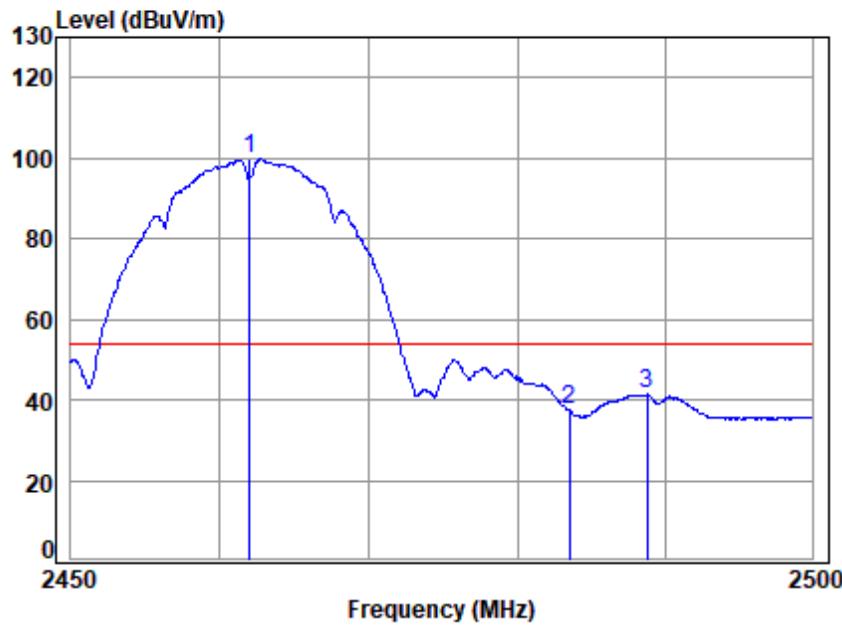
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

1 pp	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Level	Level	Line	
			dB	dB/m	dB	dBuV	dBuV/m	dB
1	2462.000	7.25	27.67	31.55	96.28	99.65	54.00	45.65 Average
2	2483.500	7.40	27.80	31.55	33.79	37.44	54.00	-16.56 Average
3	2488.813	7.43	27.83	31.55	37.61	41.32	54.00	-12.68 Average

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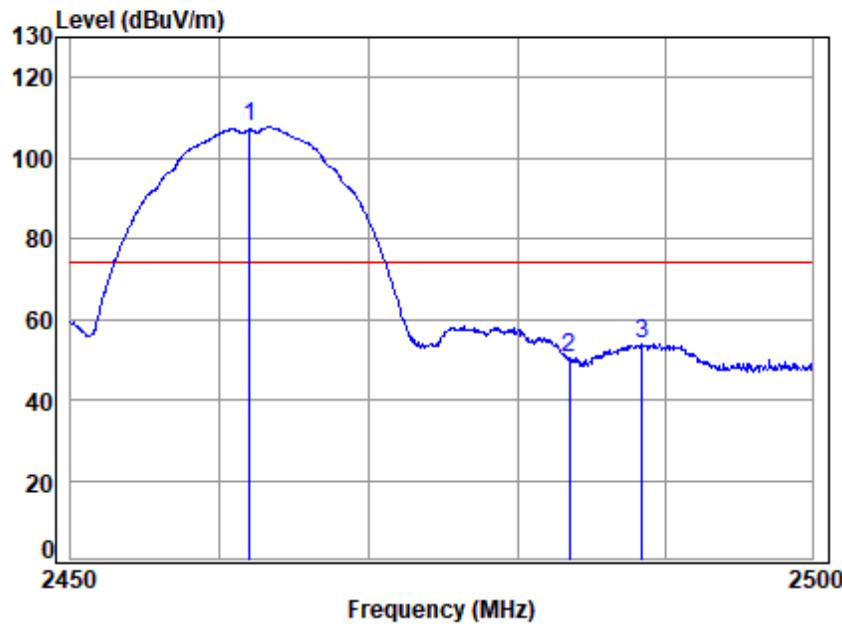
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
1 pp	2462.000	7.25	27.67	31.55	104.17	107.54	74.00	33.54 Peak
2	2483.500	7.40	27.80	31.55	46.60	50.25	74.00	-23.75 Peak
3	2488.461	7.43	27.83	31.55	50.12	53.83	74.00	-20.17 Peak

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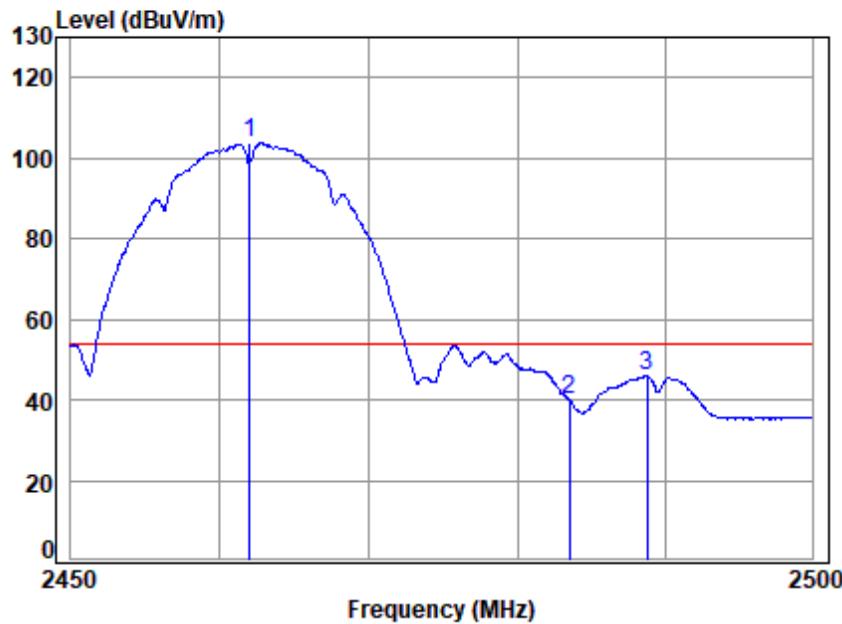
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01683TL/01684TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
1 pp	2462.000	7.25	27.67	31.55	100.29	103.66	54.00	49.66 Average
2	2483.500	7.40	27.80	31.55	36.34	39.99	54.00	-14.01 Average
3	2488.813	7.43	27.83	31.55	42.32	46.03	54.00	-7.97 Average

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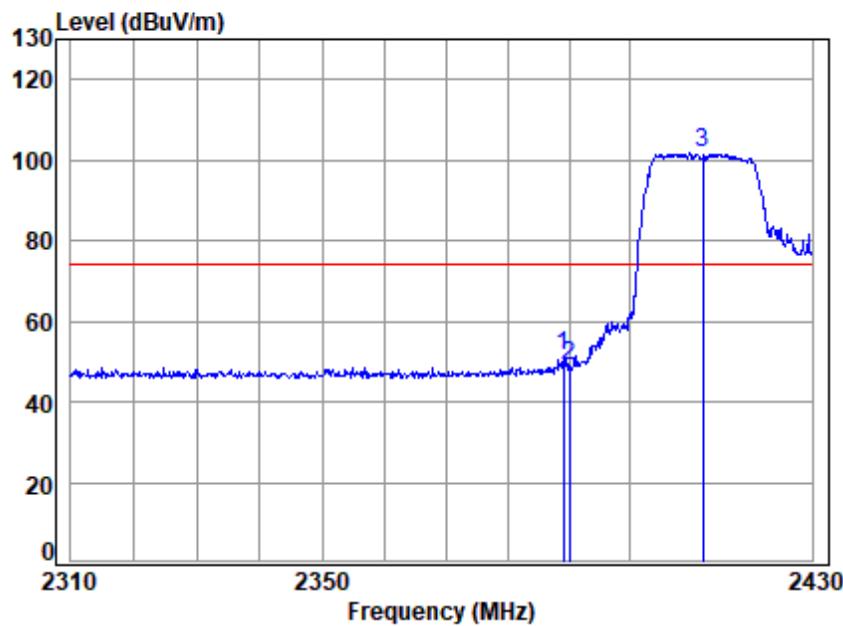
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01683TL/01684TL

Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.000	6.82	27.46	31.54	48.91	51.65	74.00	-22.35 peak
2	2390.000	6.82	27.46	31.54	46.12	48.86	74.00	-25.14 peak
3 pp	2412.000	6.91	27.52	31.54	99.08	101.97	74.00	27.97 peak

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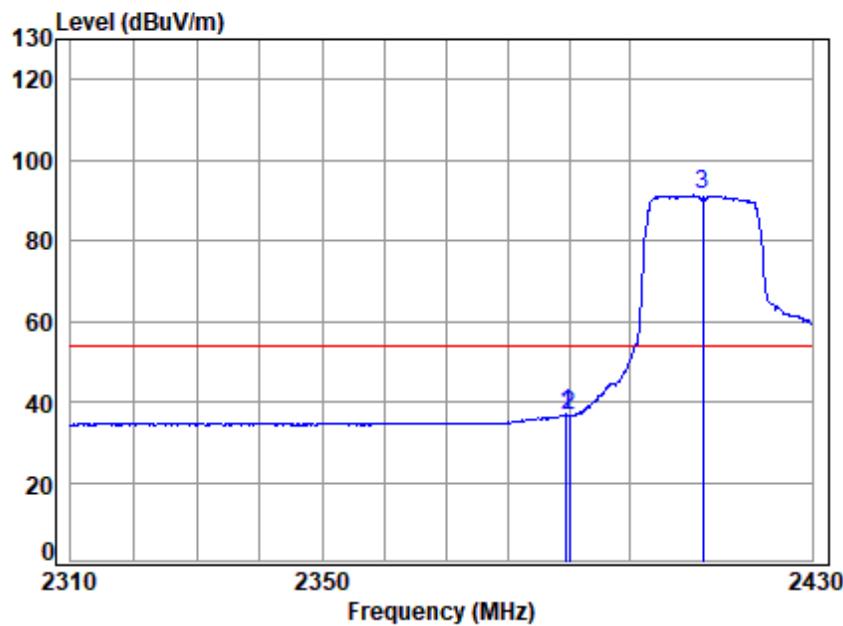
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11n20

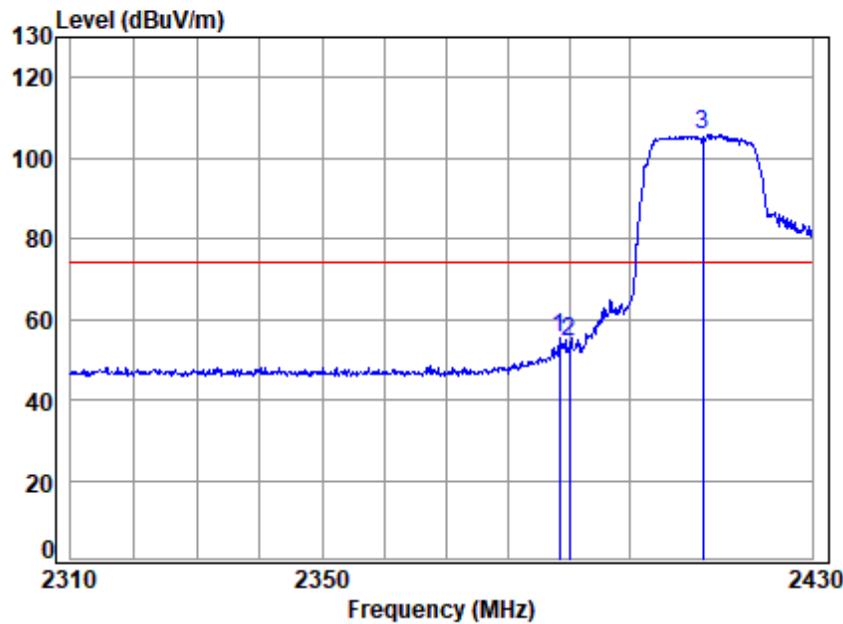
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	2389.484	6.82	27.46	31.54	34.22	36.96	54.00 -17.04 Average
2	2390.000	6.82	27.46	31.54	33.86	36.60	54.00 -17.40 Average
3 pp	2412.000	6.91	27.52	31.54	88.33	91.22	54.00 37.22 Average

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit		Over	Remark
	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.395	6.82	27.45	31.54	52.52	55.25	74.00	-18.75 Peak
2	2390.000	6.82	27.46	31.54	51.87	54.61	74.00	-19.39 Peak
3 pp	2412.000	6.91	27.52	31.54	102.90	105.79	74.00	31.79 Peak

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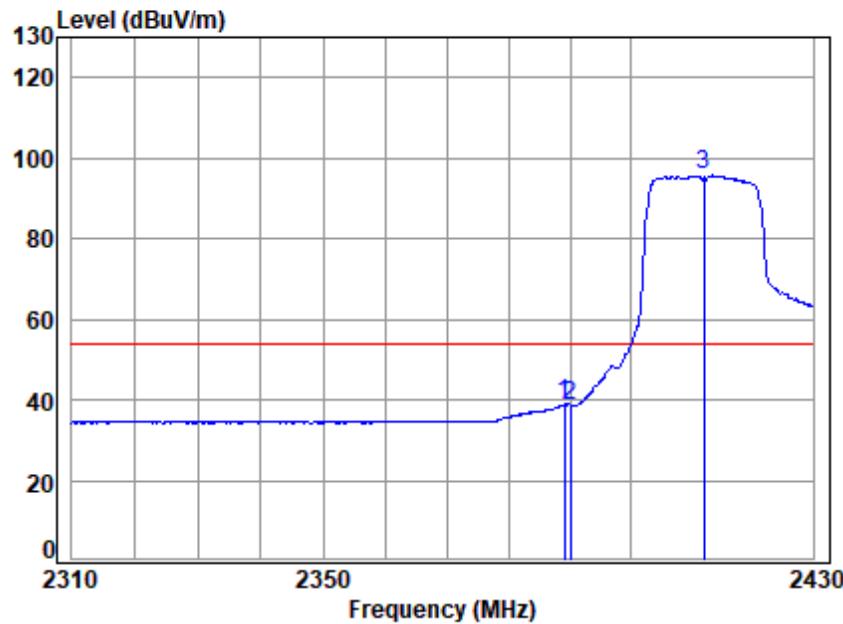
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit		Over	Remark
	Freq	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.000	6.82	27.46	31.54	36.22	38.96	54.00	-15.04 Average
2	2390.000	6.82	27.46	31.54	35.91	38.65	54.00	-15.35 Average
3 pp	2412.000	6.91	27.52	31.54	92.79	95.68	54.00	41.68 Average



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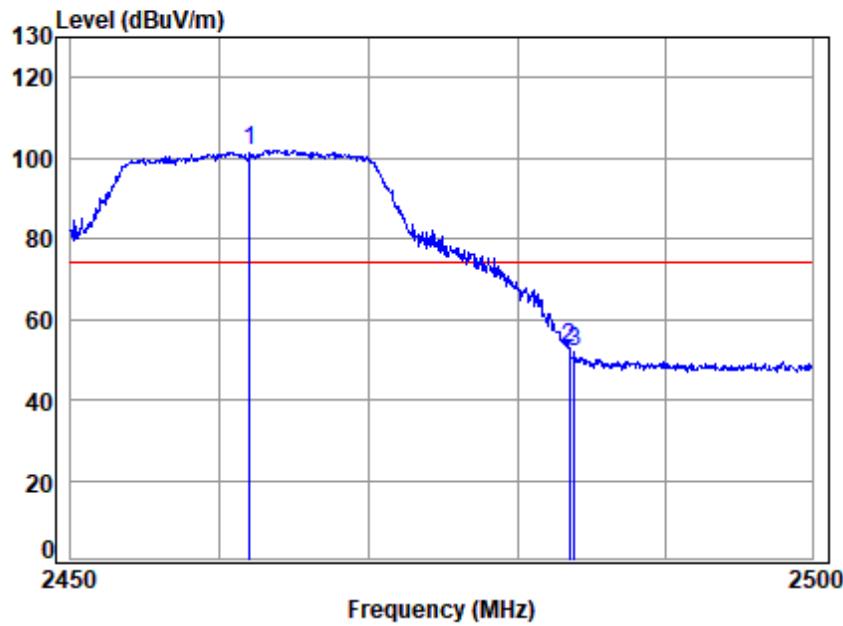
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1 pp	2462.000	7.25	27.67	31.55	98.67	102.04	74.00 28.04 peak
2	2483.500	7.40	27.80	31.55	49.40	53.05	74.00 -20.95 peak
3	2483.890	7.40	27.80	31.55	48.25	51.90	74.00 -22.10 peak

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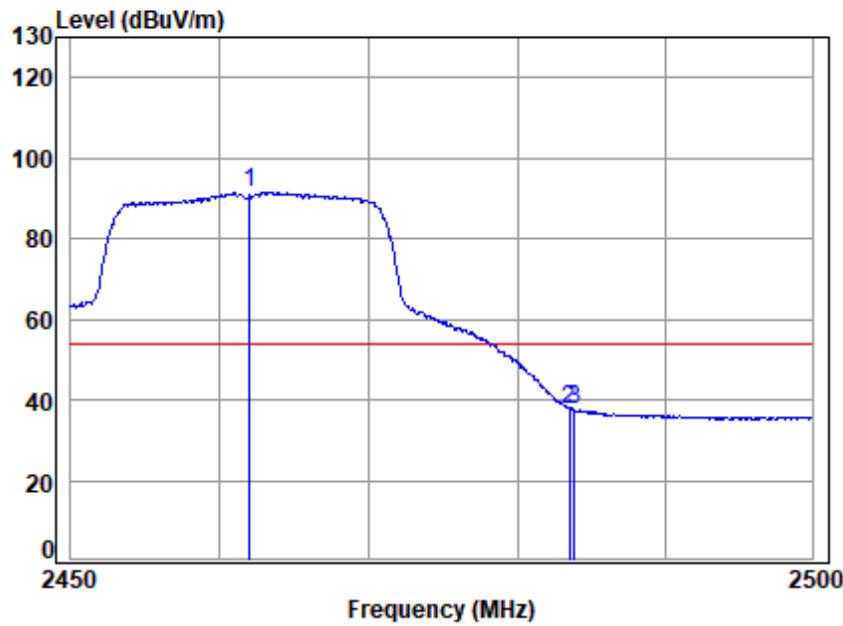
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11n20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
1 pp	2462.000	7.25	27.67	31.55	88.20	91.57	54.00	37.57 Average
2	2483.500	7.40	27.80	31.55	34.13	37.78	54.00	-16.22 Average
3	2483.890	7.40	27.80	31.55	33.84	37.49	54.00	-16.51 Average

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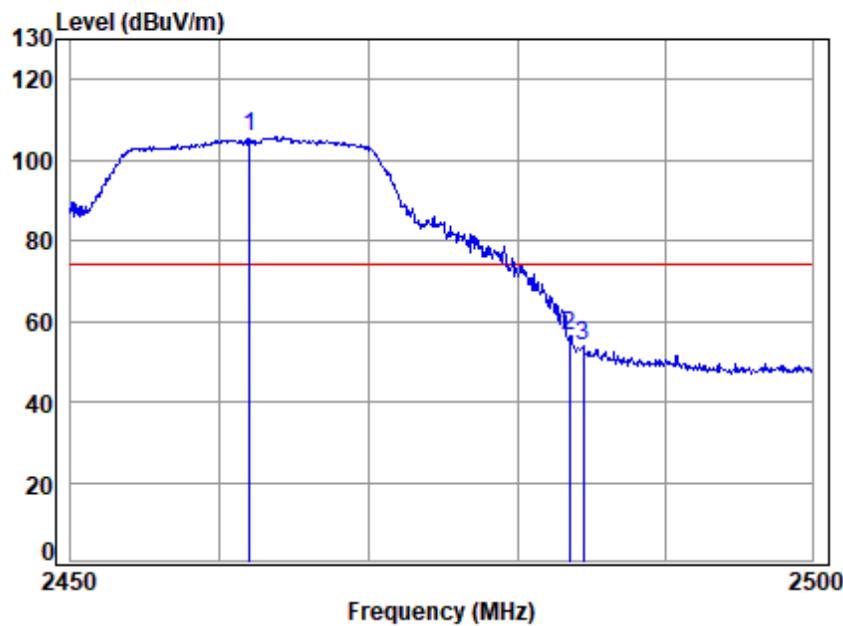
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1 pp	2462.000	7.25	27.67	31.55	102.30	105.67	74.00 31.67 Peak
2	2483.500	7.40	27.80	31.55	52.79	56.44	74.00 -17.56 Peak
3	2484.442	7.40	27.81	31.55	50.08	53.74	74.00 -20.26 Peak

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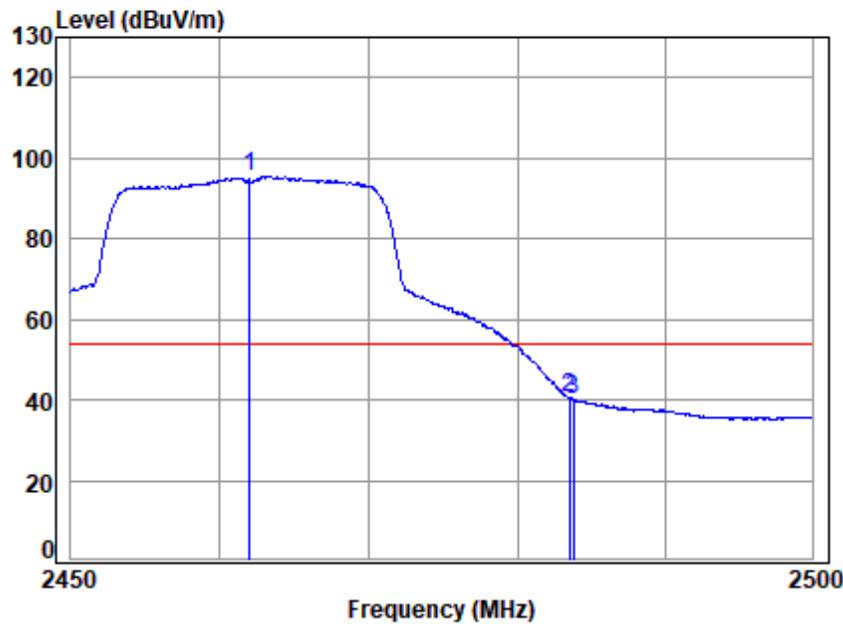
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
1 pp	2462.000	7.25	27.67	31.55	92.18	95.55	54.00	41.55 Average
2	2483.500	7.40	27.80	31.55	36.92	40.57	54.00	-13.43 Average
3	2483.790	7.40	27.80	31.55	36.33	39.98	54.00	-14.02 Average

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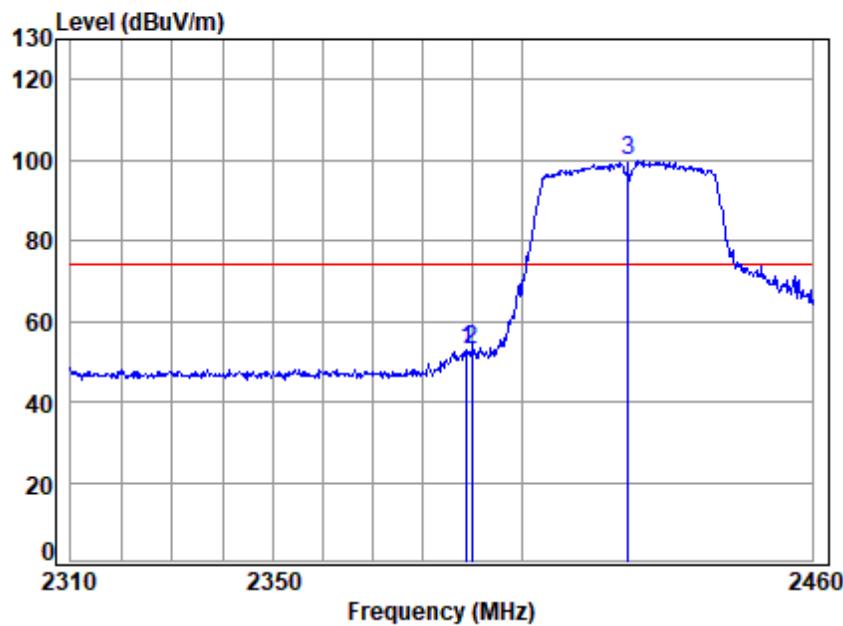
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 01683TL/01684TL

Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40

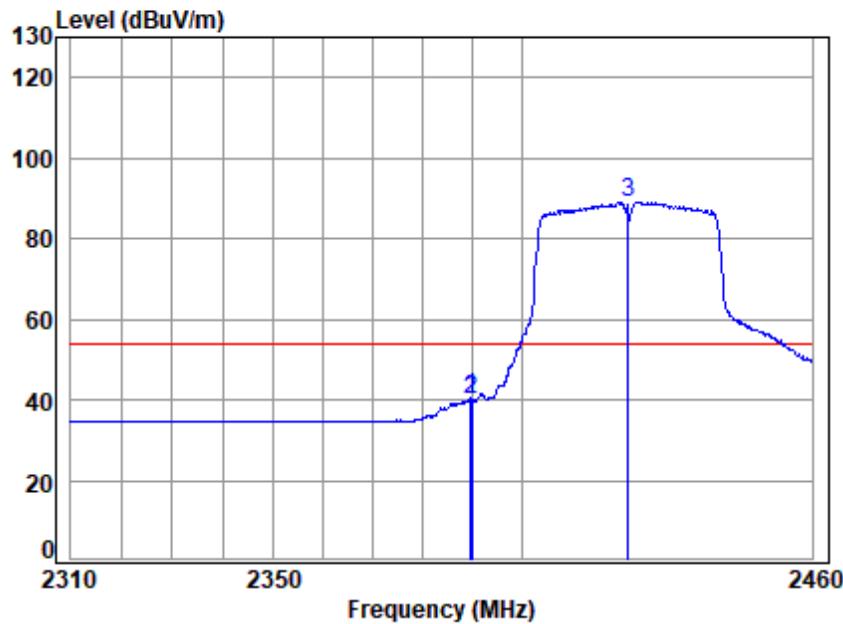
Freq	Cable	Ant	Preamp	Read	Limit		Over	Remark
	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.925	6.82	27.46	31.54	49.99	52.73	74.00	-21.27 peak
2	2390.000	6.82	27.46	31.54	50.16	52.90	74.00	-21.10 peak
3 pp	2422.000	6.98	27.54	31.54	97.00	99.98	74.00	25.98 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2422 Band edge
: 2.4G Wi-Fi 11n40

Freq	Cable	Ant	Preamp	Read	Limit		Over	Remark
	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.677	6.82	27.46	31.54	37.58	40.32	54.00	-13.68 Average
2	2390.000	6.82	27.46	31.54	37.52	40.26	54.00	-13.74 Average
3 pp	2422.000	6.98	27.54	31.54	86.05	89.03	54.00	35.03 Average

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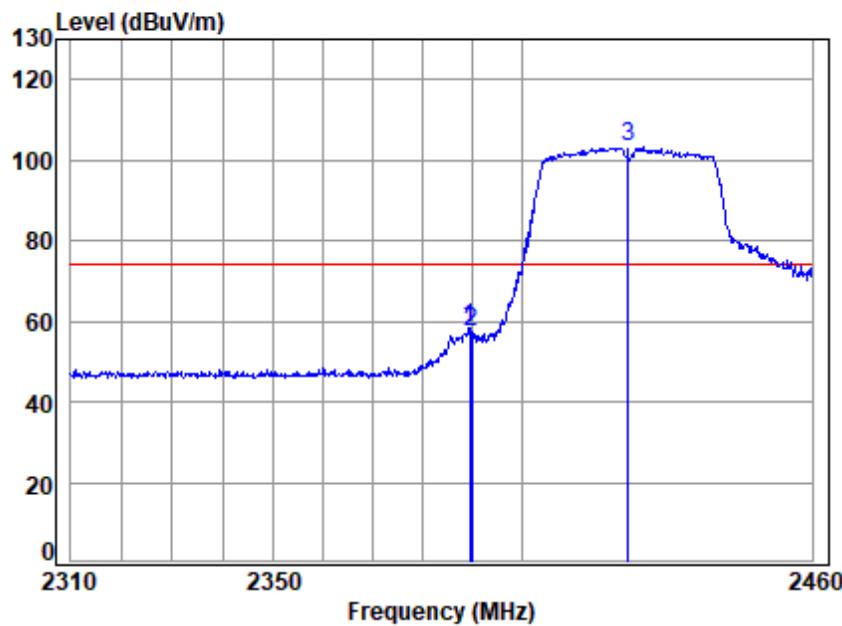
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40

Freq	Cable	Ant	Preamp	Read	Limit		Over	Remark
	Freq	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.526	6.82	27.46	31.54	55.78	58.52	74.00	-15.48 Peak
2	2390.000	6.82	27.46	31.54	54.68	57.42	74.00	-16.58 Peak
3 pp	2422.000	6.98	27.54	31.54	100.30	103.28	74.00	29.28 Peak

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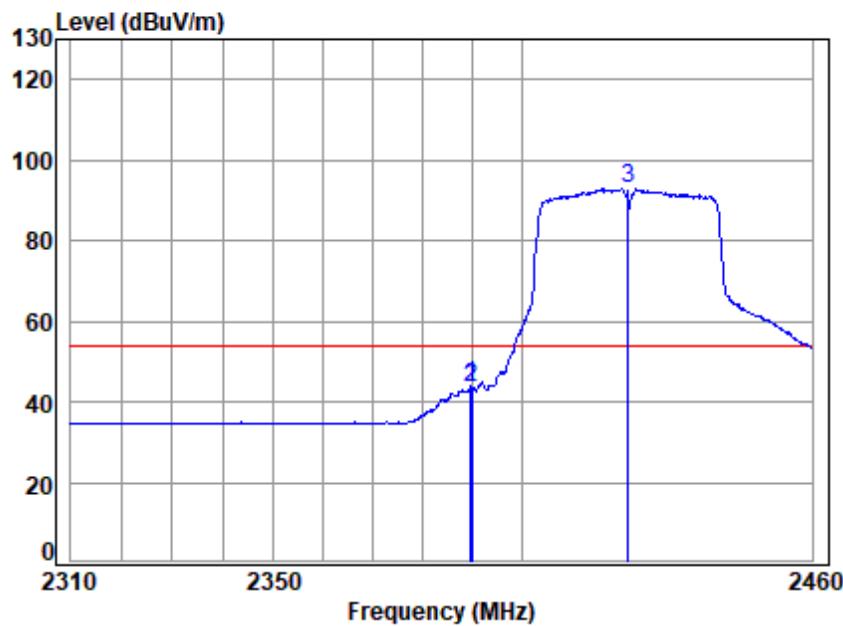
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40

Freq	Cable	Ant	Preamp	Read	Limit		Over	Remark
	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.827	6.82	27.46	31.54	41.05	43.79	54.00	-10.21 Average
2	2390.000	6.82	27.46	31.54	40.85	43.59	54.00	-10.41 Average
3 pp	2422.000	6.98	27.54	31.54	89.86	92.84	54.00	38.84 Average

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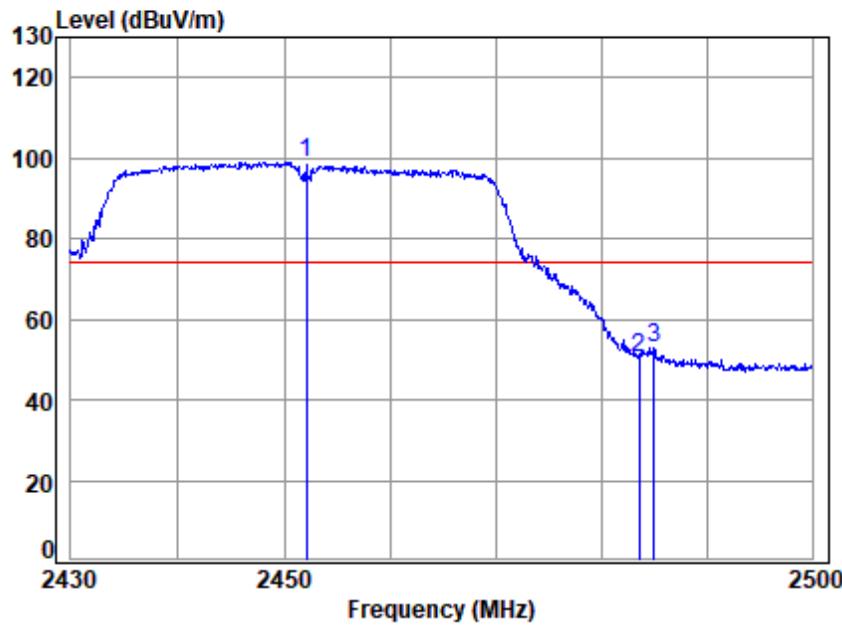
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2452 Band edge
: 2.4G Wi-Fi 11n40

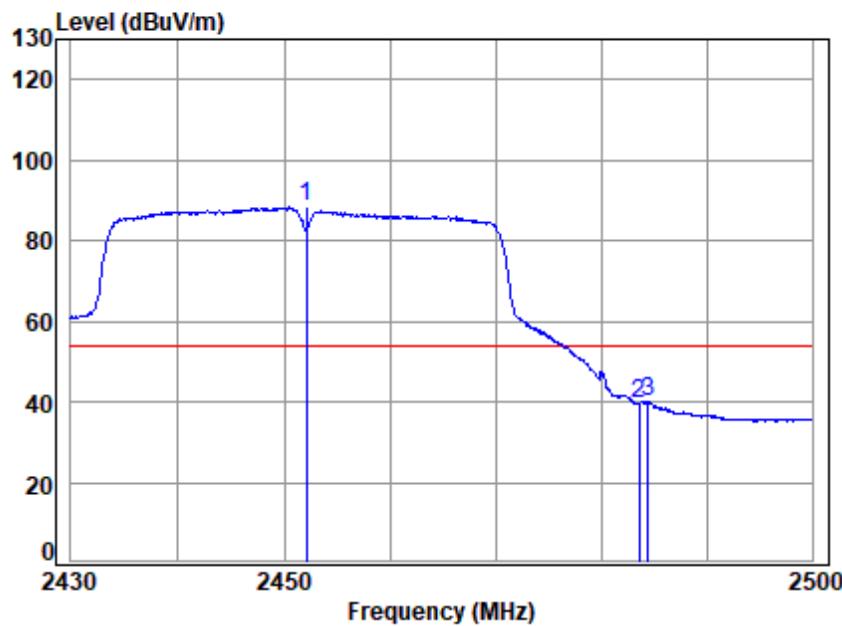
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
1 pp	2452.000	7.18	27.61	31.55	95.70	98.94	74.00	24.94 peak
2	2483.500	7.40	27.80	31.55	46.90	50.55	74.00	-23.45 peak
3	2484.923	7.41	27.81	31.55	49.35	53.02	74.00	-20.98 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 01683TL/01684TL

Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
1 pp	2452.000	7.18	27.61	31.55	85.05	88.29	54.00	34.29 Average
2	2483.500	7.40	27.80	31.55	35.72	39.37	54.00	-14.63 Average
3	2484.358	7.40	27.81	31.55	36.35	40.01	54.00	-13.99 Average

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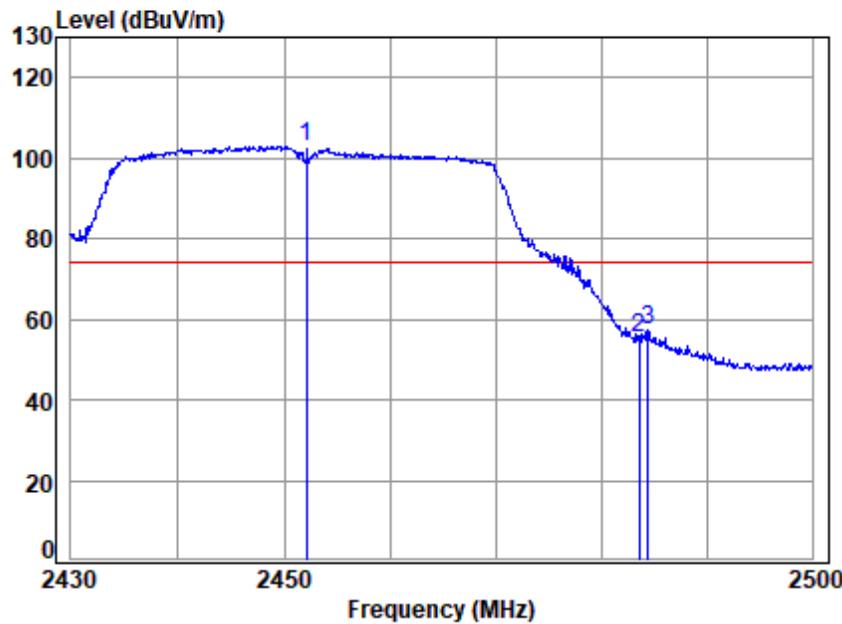
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark	
				dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
1 pp	2452.000	7.18	27.61	31.55	99.69	102.93	74.00	28.93	Peak
2	2483.500	7.40	27.80	31.55	51.85	55.50	74.00	-18.50	Peak
3	2484.358	7.40	27.81	31.55	53.67	57.33	74.00	-16.67	Peak

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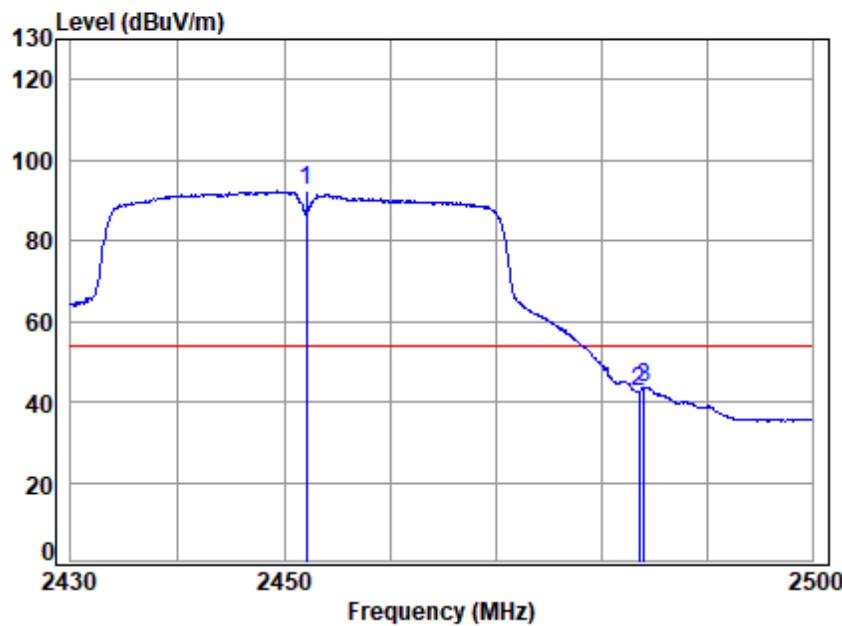
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	dBuV			
1 pp	2452.000	7.18	27.61	31.55	88.98	92.22	54.00	38.22 Average
2	2483.500	7.40	27.80	31.55	38.94	42.59	54.00	-11.41 Average
3	2484.006	7.40	27.80	31.55	39.86	43.51	54.00	-10.49 Average

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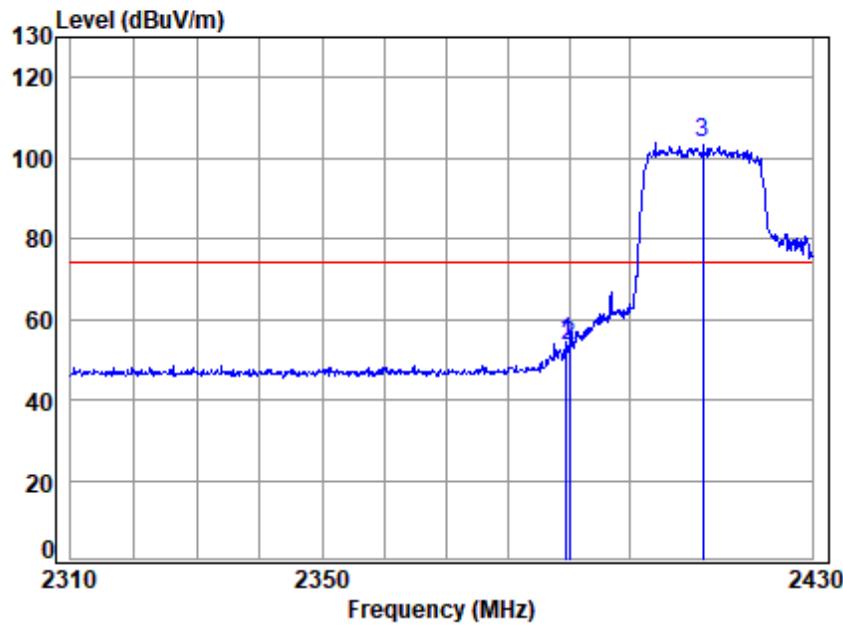
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	2389.605	6.82	27.46	31.54	51.69	54.43	74.00 -19.57 peak
2	2390.000	6.82	27.46	31.54	50.49	53.23	74.00 -20.77 peak
3 pp	2412.000	6.91	27.52	31.54	100.95	103.84	74.00 29.84 peak

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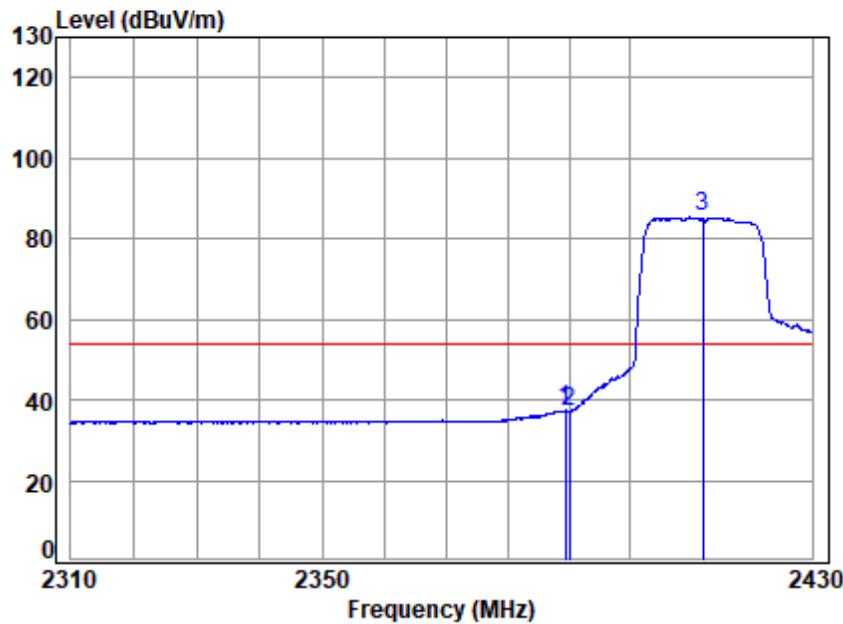
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11ax20

Freq	Cable	Ant	Preamp	Read	Limit		Over	Remark
	Freq	Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.363	6.82	27.46	31.54	34.59	37.33	54.00	-16.67 Average
2	2390.000	6.82	27.46	31.54	34.40	37.14	54.00	-16.86 Average
3 pp	2412.000	6.91	27.52	31.54	82.48	85.37	54.00	31.37 Average

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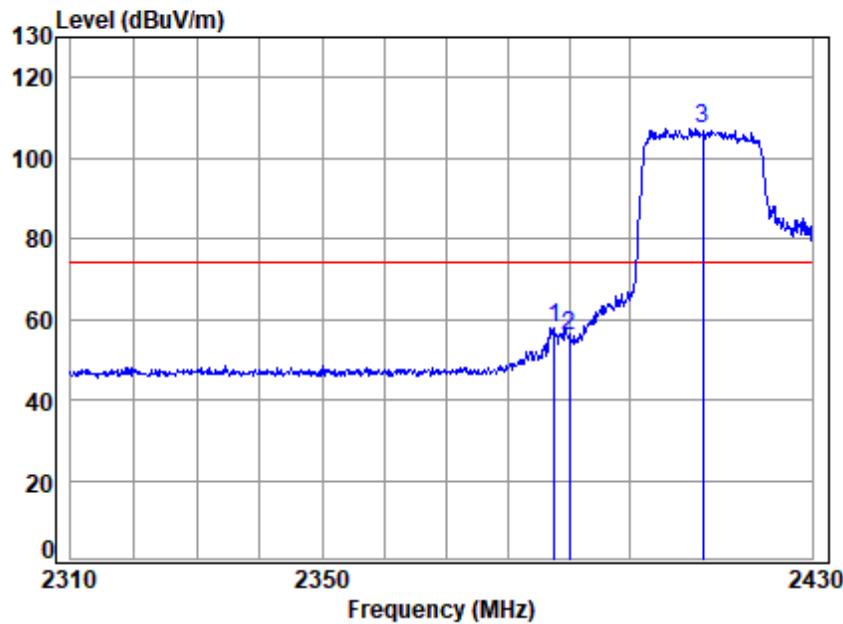
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2387.670	6.82	27.45	31.54	55.25	57.98	74.00	-16.02 Peak
2	2390.000	6.82	27.46	31.54	53.17	55.91	74.00	-18.09 Peak
3 pp	2412.000	6.91	27.52	31.54	104.52	107.41	74.00	33.41 Peak

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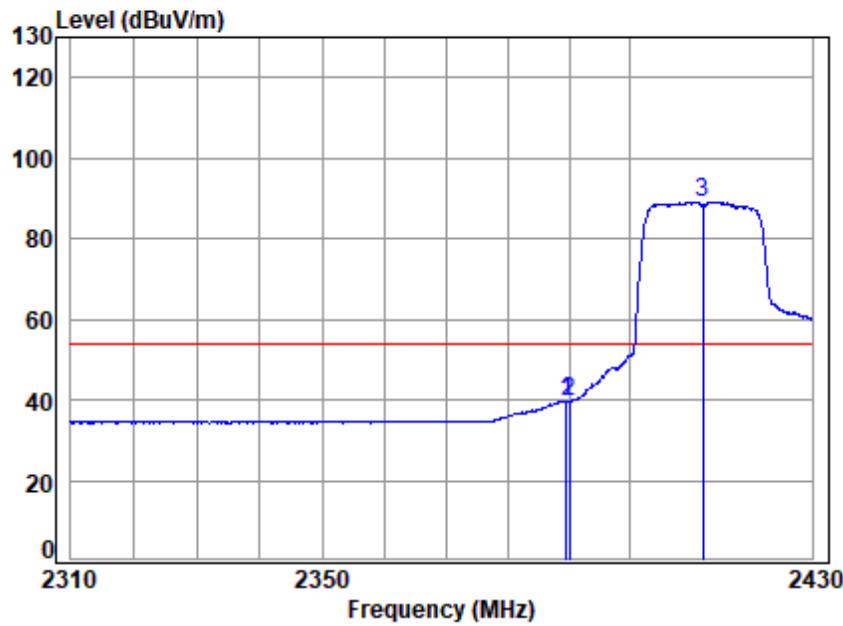
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20

Freq	Cable	Ant	Preamp	Read	Limit		Over	Remark
	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.605	6.82	27.46	31.54	37.02	39.76	54.00	-14.24 Average
2	2390.000	6.82	27.46	31.54	36.64	39.38	54.00	-14.62 Average
3 pp	2412.000	6.91	27.52	31.54	86.33	89.22	54.00	35.22 Average

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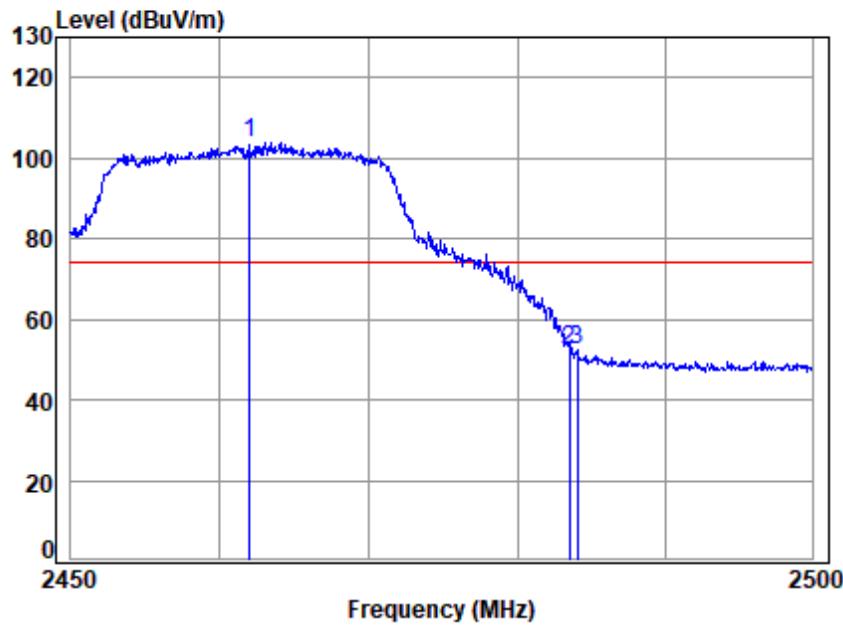
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11ax20

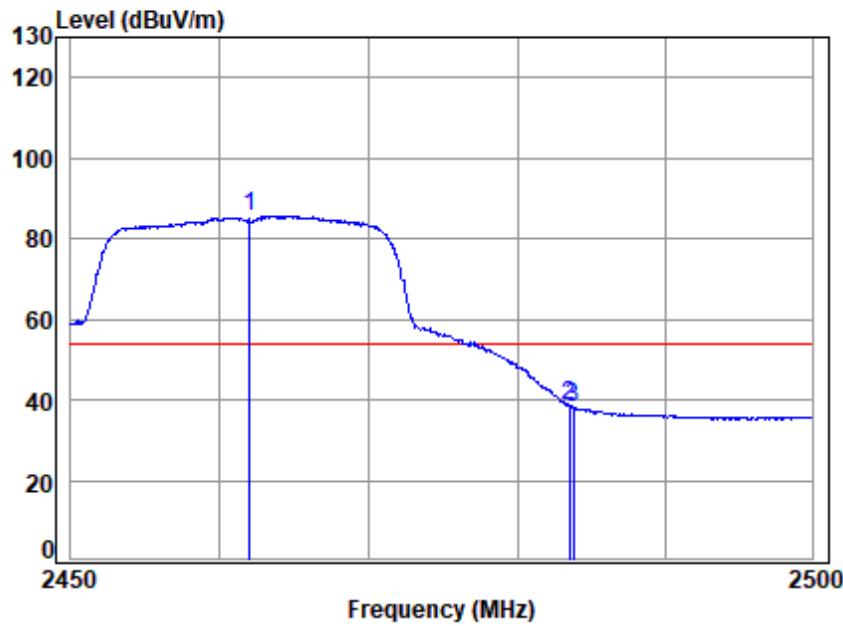
1 pp	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Level	Level	Line	
			dB	dB/m	dB	dBuV	dBuV/m	dB
1	2462.000	7.25	27.67	31.55	100.44	103.81	74.00	29.81 peak
2	2483.500	7.40	27.80	31.55	48.55	52.20	74.00	-21.80 peak
3	2484.041	7.40	27.80	31.55	48.51	52.16	74.00	-21.84 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11ax20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
1 pp	2462.000	7.25	27.67	31.55	82.26	85.63	54.00	31.63 Average
2	2483.500	7.40	27.80	31.55	34.79	38.44	54.00	-15.56 Average
3	2483.790	7.40	27.80	31.55	34.41	38.06	54.00	-15.94 Average

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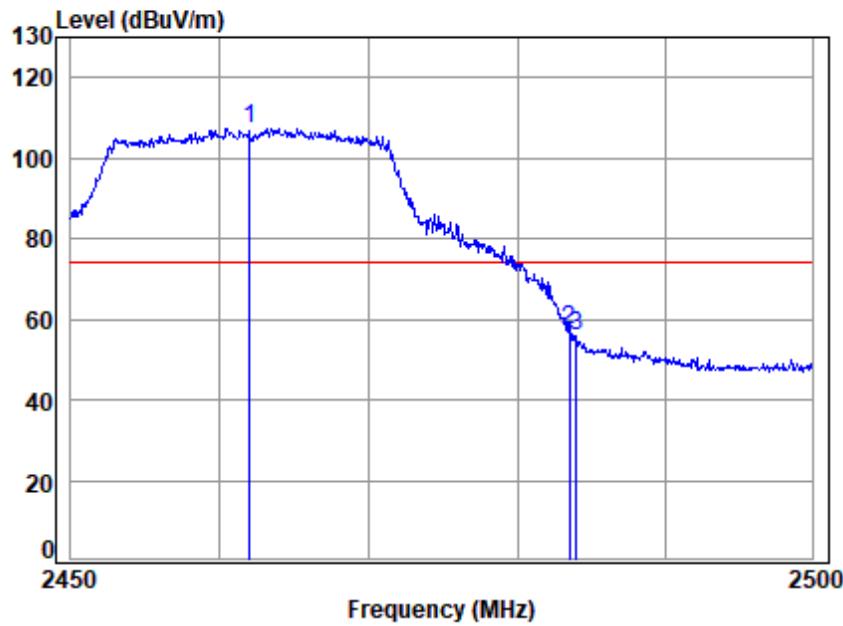
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	104.02	107.39	74.00	33.39 Peak
2	2483.500	7.40	27.80	31.55	53.78	57.43	74.00	-16.57 Peak
3	2483.990	7.40	27.80	31.55	52.22	55.87	74.00	-18.13 Peak

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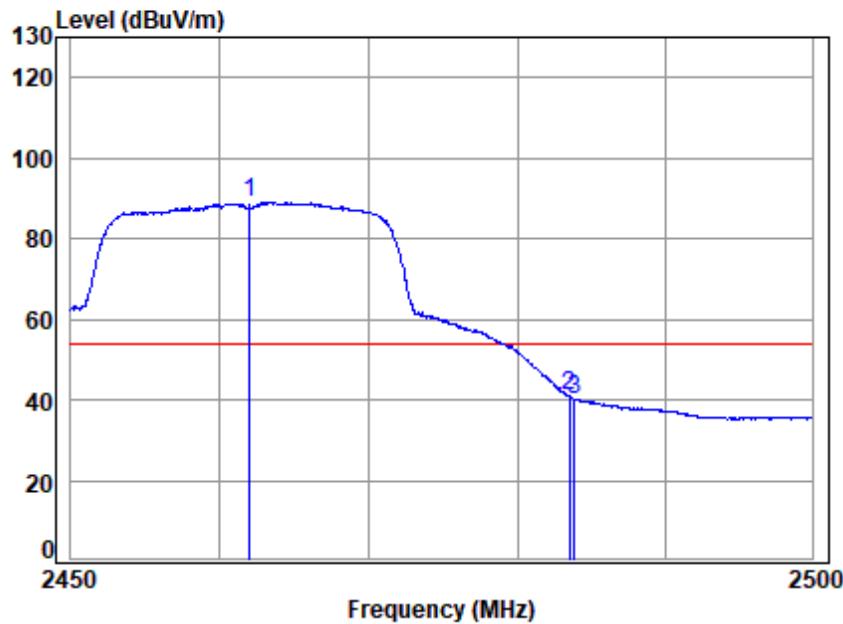
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	dBuV			
1 pp	2462.000	7.25	27.67	31.55	85.61	88.98	54.00	34.98 Average
2	2483.500	7.40	27.80	31.55	37.29	40.94	54.00	-13.06 Average
3	2483.890	7.40	27.80	31.55	36.58	40.23	54.00	-13.77 Average

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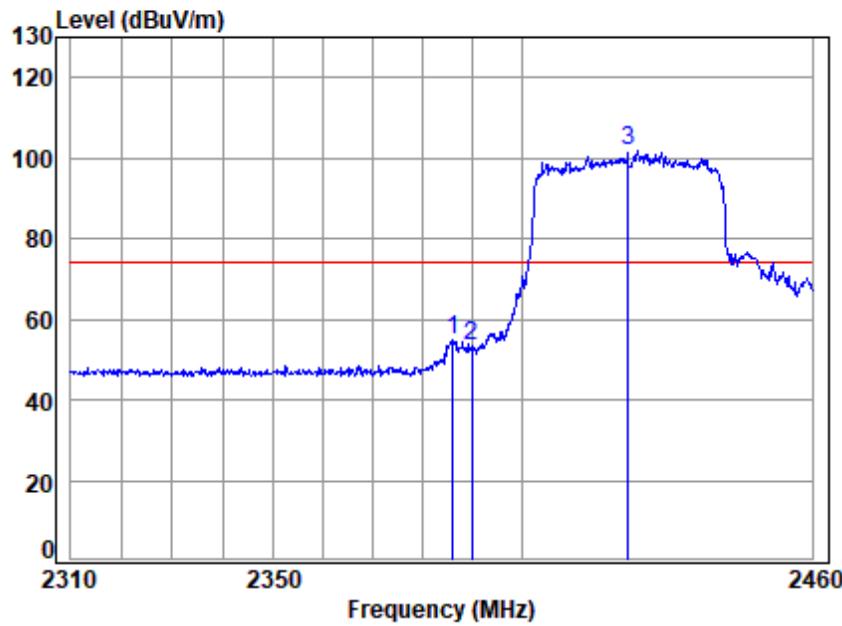
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2422 Band edge
: 2.4G Wi-Fi 11ax40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	2386.071	6.82	27.44	31.54	52.17	54.89	74.00 -19.11 peak
2	2390.000	6.82	27.46	31.54	50.45	53.19	74.00 -20.81 peak
3 pp	2422.000	6.98	27.54	31.54	98.67	101.65	74.00 27.65 peak



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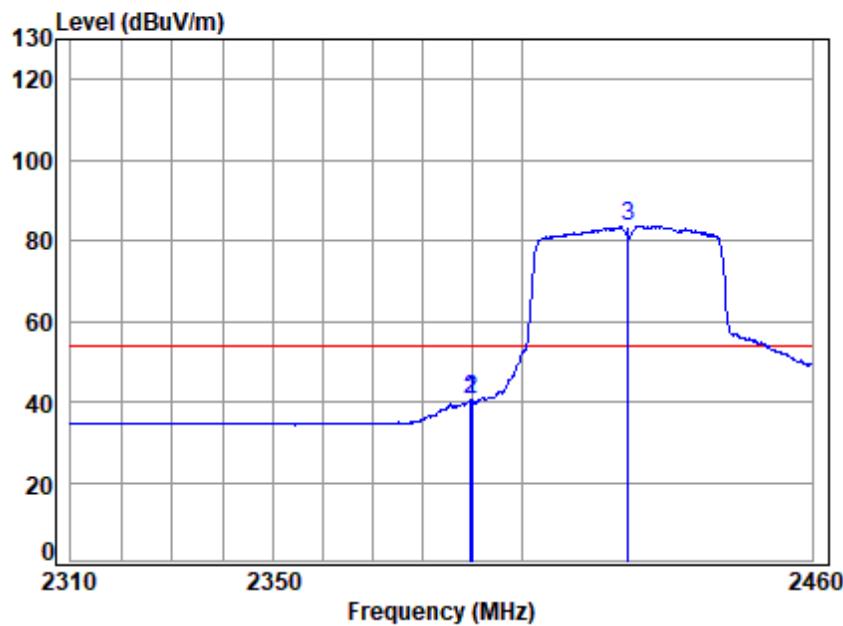
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2422 Band edge
: 2.4G Wi-Fi 11ax40

Freq	Cable	Ant	Preamp	Read	Limit		Over	Remark
	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.677	6.82	27.46	31.54	37.77	40.51	54.00	-13.49 Average
2	2390.000	6.82	27.46	31.54	37.73	40.47	54.00	-13.53 Average
3 pp	2422.000	6.98	27.54	31.54	80.65	83.63	54.00	29.63 Average

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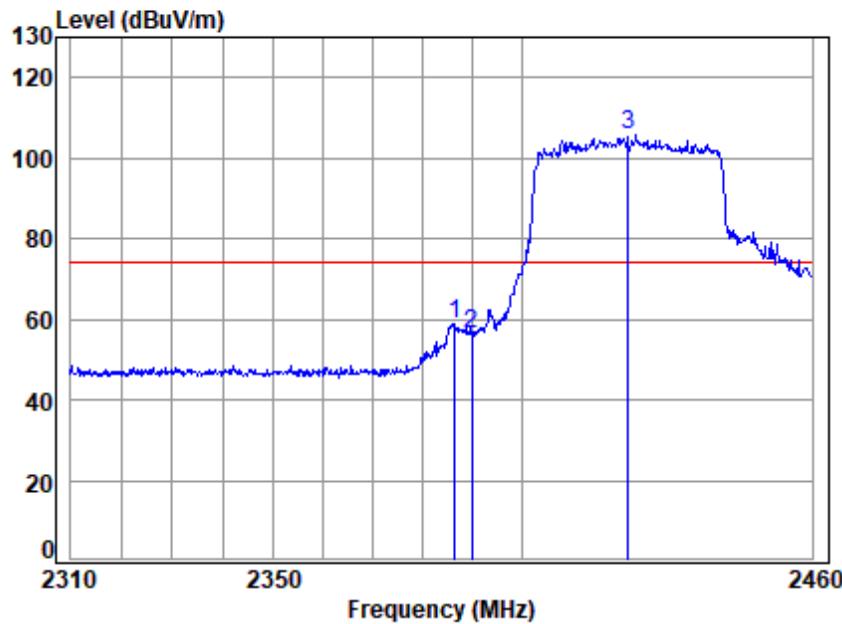
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2422 Band edge

: 2.4G Wi-Fi 11ax40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2386.521	6.82	27.45	31.54	56.20	58.93	74.00	-15.07 Peak
2	2390.000	6.82	27.46	31.54	53.79	56.53	74.00	-17.47 Peak
3 pp	2422.000	6.98	27.54	31.54	102.67	105.65	74.00	31.65 Peak

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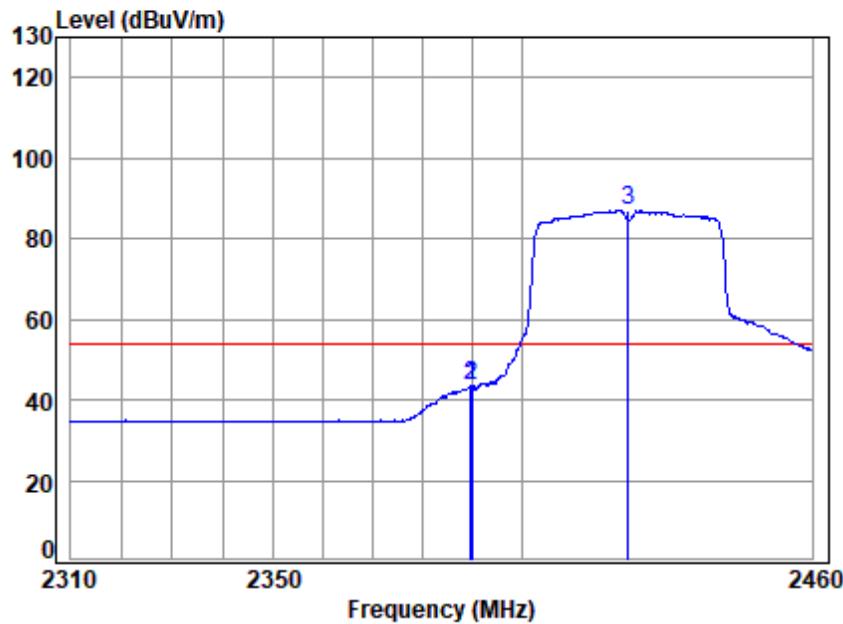
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2422 Band edge

: 2.4G Wi-Fi 11ax40

Freq	Cable	Ant	Preamp	Read	Limit		Over	Remark
	Freq	Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.677	6.82	27.46	31.54	40.73	43.47	54.00	-10.53 Average
2	2390.000	6.82	27.46	31.54	40.64	43.38	54.00	-10.62 Average
3 pp	2422.000	6.98	27.54	31.54	84.20	87.18	54.00	33.18 Average

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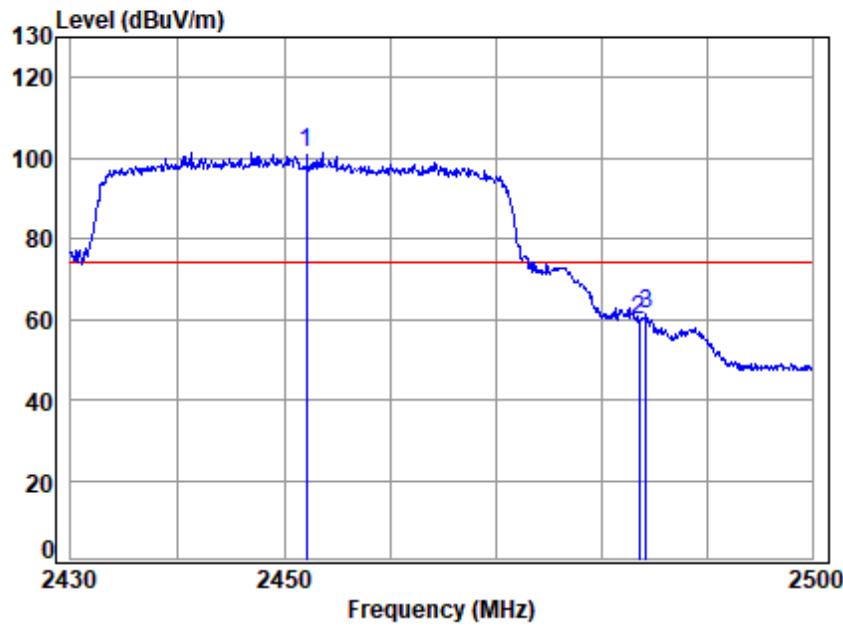
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2452 Band edge
: 2.4G Wi-Fi 11ax40

1	pp	2452.000	Cable	Ant	Preamp	Read	Limit	Over	Remark
			Freq	Loss	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	2452.000	7.18	27.61	31.55	98.24	101.48	74.00	27.48 peak
2		2483.500	7.40	27.80	31.55	56.24	59.89	74.00	-14.11 peak
3		2484.147	7.40	27.80	31.55	57.47	61.12	74.00	-12.88 peak

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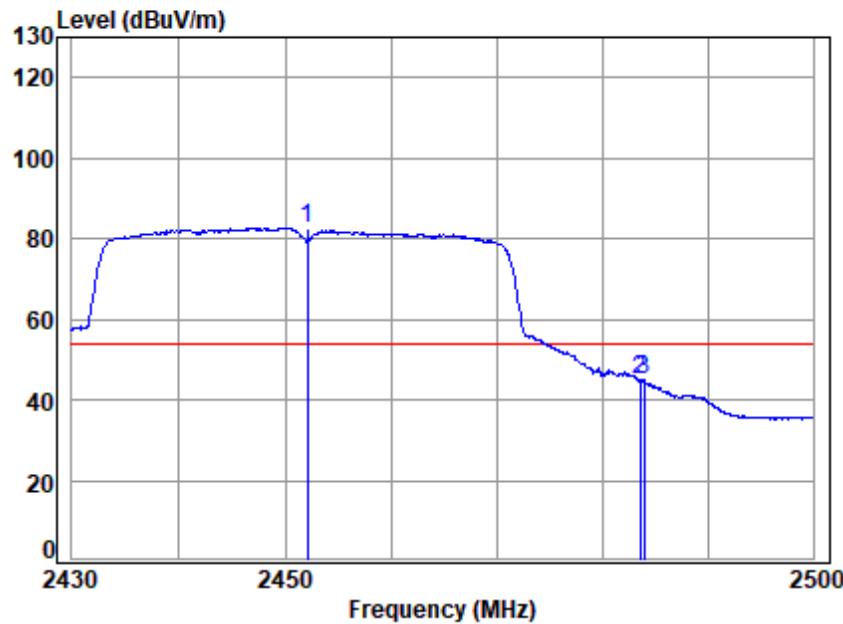
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2452 Band edge
: 2.4G Wi-Fi 11ax40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
1 pp	2452.000	7.18	27.61	31.55	79.54	82.78	54.00	28.78 Average
2	2483.500	7.40	27.80	31.55	41.17	44.82	54.00	-9.18 Average
3	2483.865	7.40	27.80	31.55	41.09	44.74	54.00	-9.26 Average

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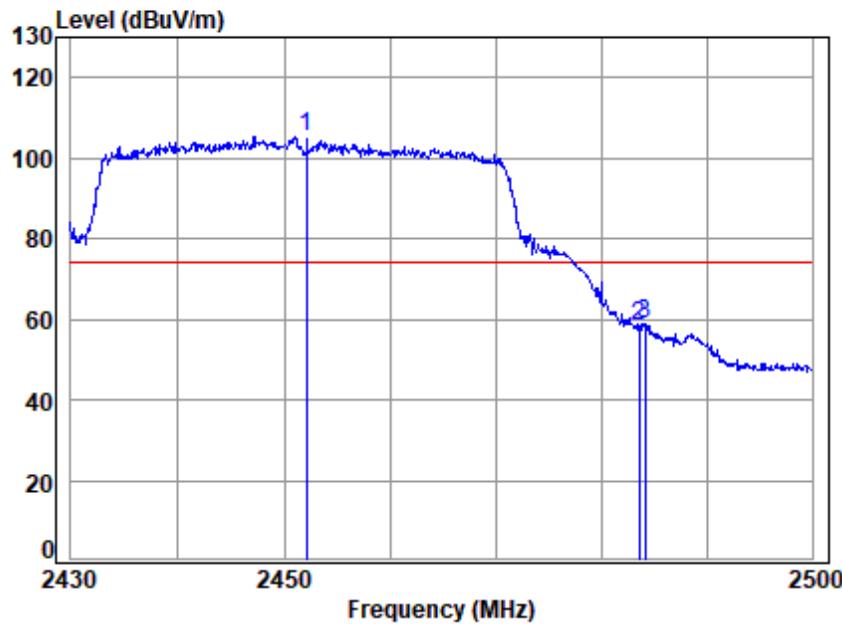
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2452 Band edge

: 2.4G Wi-Fi 11ax40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
1 pp	2452.000	7.18	27.61	31.55	102.27	105.51	74.00	31.51 Peak
2	2483.500	7.40	27.80	31.55	54.61	58.26	74.00	-15.74 Peak
3	2484.076	7.40	27.80	31.55	55.14	58.79	74.00	-15.21 Peak

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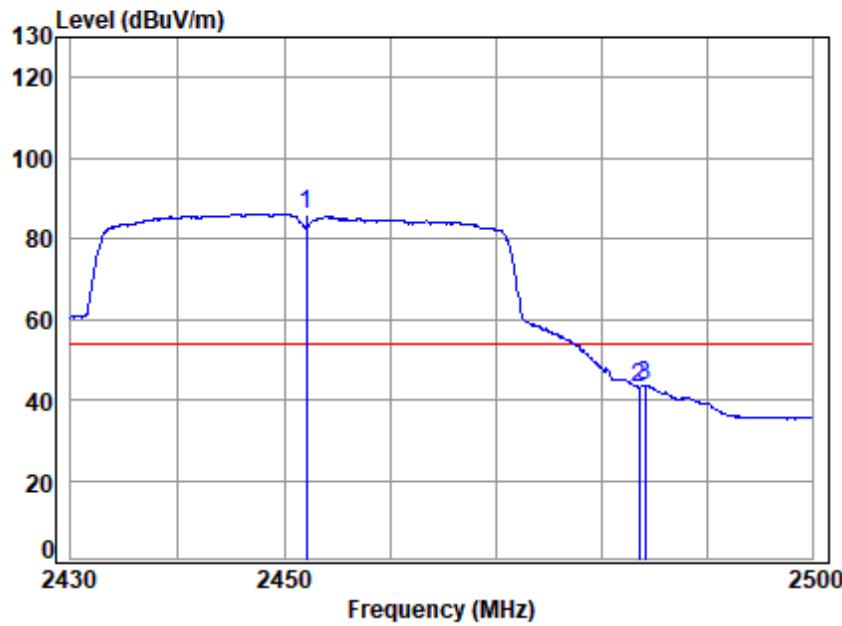
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2452 Band edge

: 2.4G Wi-Fi 11ax40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
1 pp	2452.000	7.18	27.61	31.55	82.95	86.19	54.00	32.19 Average
2	2483.500	7.40	27.80	31.55	39.57	43.22	54.00	-10.78 Average
3	2484.076	7.40	27.80	31.55	39.87	43.52	54.00	-10.48 Average

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6.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.4,6.5

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
960-1000	500	3

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 42.8 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report

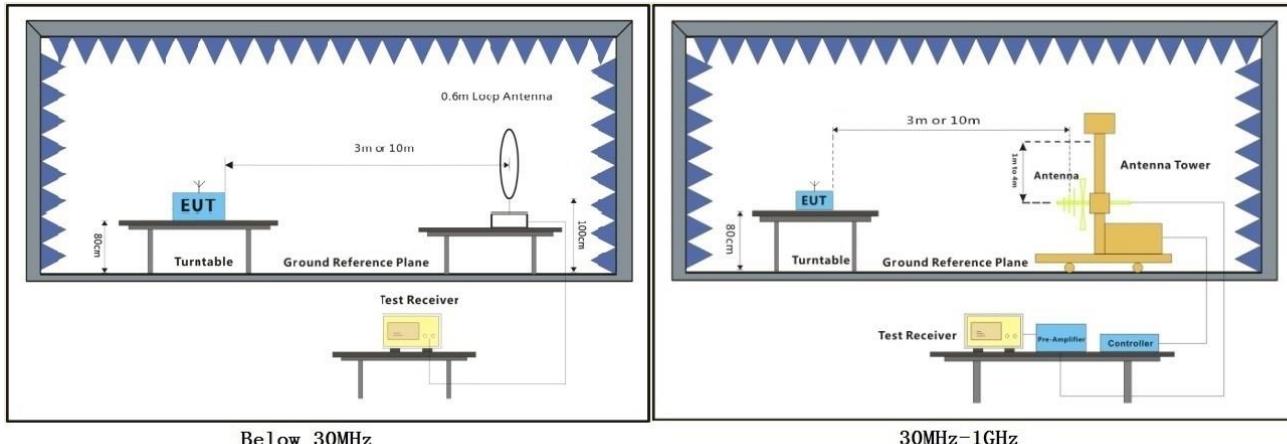
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6.2.3 Test Setup Diagram**6.2.4 Measurement Procedure and Data**

- 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. 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.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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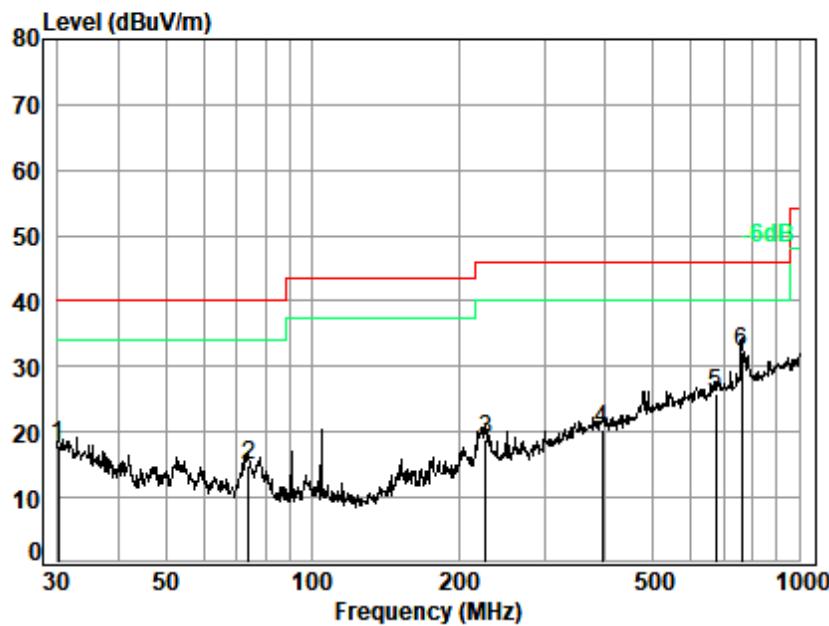
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Test Mode: 01; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 01683TL/01684TL

Test Mode: 01

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark	
					dB/m	dBuV	dBuV/m	dBuV/m	
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	
1 30.105	21.15	0.67	27.79	23.82	17.85	40.00	-22.15	QP	
2 73.876	10.39	1.05	27.67	31.25	15.02	40.00	-24.98	QP	
3 226.894	16.00	1.90	27.06	28.16	19.00	46.00	-27.00	QP	
4 394.855	20.70	2.56	27.14	24.21	20.33	46.00	-25.67	QP	
5 672.845	25.64	3.46	27.79	24.44	25.75	46.00	-20.25	QP	
6 q 763.376	26.52	3.75	27.57	29.60	32.30	46.00	-13.70	QP	

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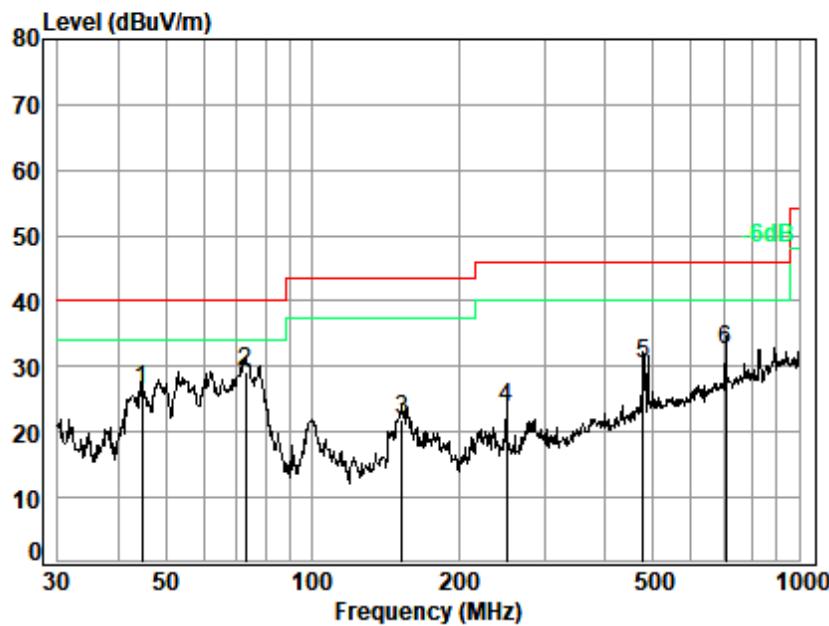
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Test Mode: 01; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 01683TL/01684TL

Test Mode: 01

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					dB	dBuV	dBuV/m	dBuV/m
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1	44.743	14.30	0.82	27.75	39.18	26.55	40.00	-13.45 QP
2 q	72.847	10.44	1.04	27.67	45.51	29.32	40.00	-10.68 QP
3	152.664	13.34	1.55	27.37	34.46	21.98	43.50	-21.52 QP
4	250.301	17.24	2.00	26.96	31.39	23.67	46.00	-22.33 QP
5	478.846	22.68	2.85	27.48	32.22	30.27	46.00	-15.73 QP
6	706.700	25.97	3.56	27.71	30.71	32.53	46.00	-13.47 QP

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6.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

6.3.1 E.U.T. Operation

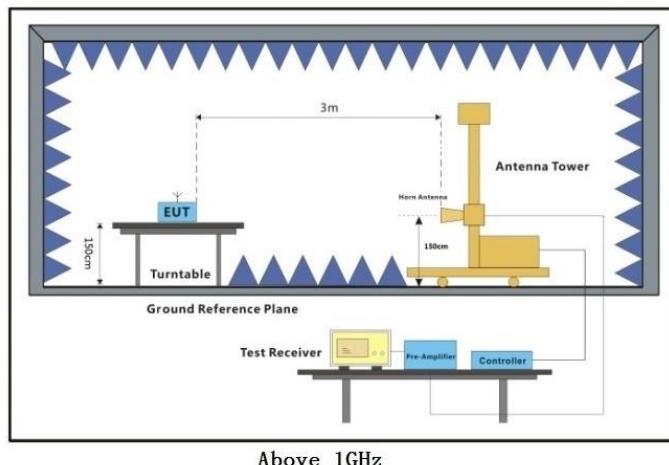
Operating Environment:

Temperature: 22.9 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report

6.3.3 Test Setup Diagram



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6.3.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

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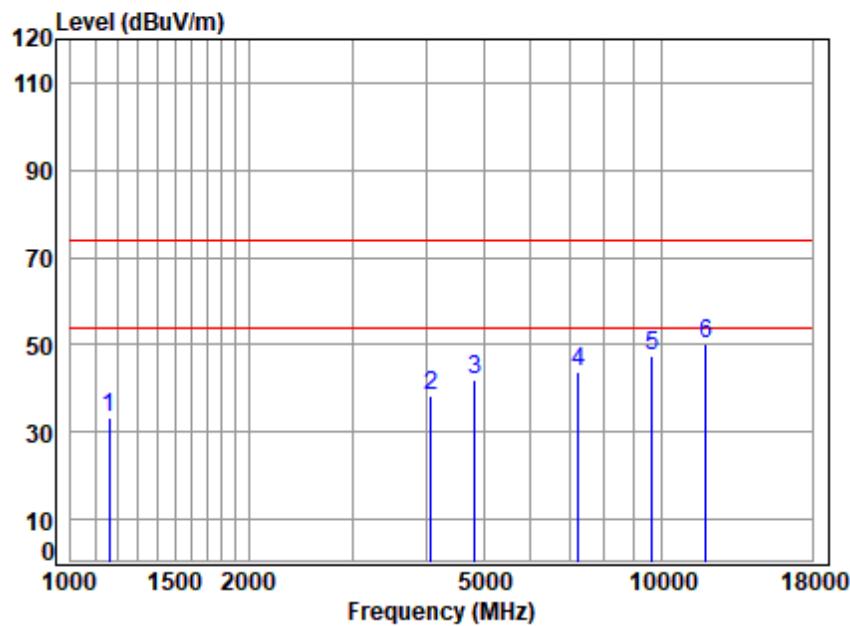
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11b

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	1162.182	7.16	25.38	54.70	55.37	33.21	74.00 -40.79 peak
2	4074.388	8.30	30.35	55.65	55.33	38.33	74.00 -35.67 peak
3	4824.000	8.92	32.00	56.18	57.10	41.84	74.00 -32.16 peak
4	7236.000	11.10	36.60	56.51	52.39	43.58	74.00 -30.42 peak
5	9648.000	12.49	38.70	54.42	50.52	47.29	74.00 -26.71 peak
6	pp11906.070	14.62	39.71	53.77	49.77	50.33	74.00 -23.67 peak

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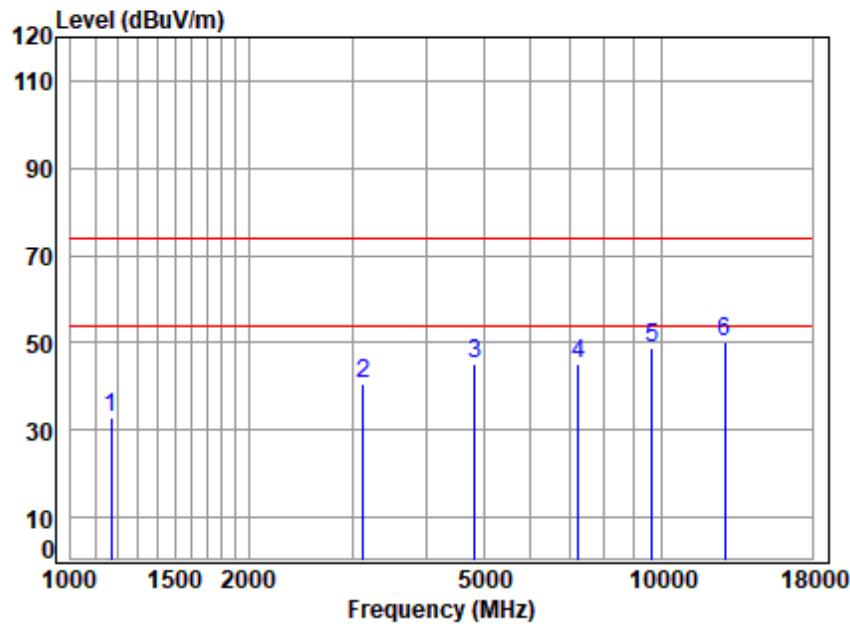
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2412 TX RSE

: 2.4G Wi-Fi 11b

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1172.303	7.17	25.36	54.70	54.92	32.75	74.00	-41.25 peak
2	3123.039	7.71	29.15	55.07	58.79	40.58	74.00	-33.42 peak
3	4824.000	8.92	32.00	56.18	60.40	45.14	74.00	-28.86 peak
4	7236.000	11.10	36.60	56.51	53.91	45.10	74.00	-28.90 peak
5	9648.000	12.49	38.70	54.42	52.02	48.79	74.00	-25.21 peak
6	pp12798.240	15.15	40.30	54.36	49.20	50.29	74.00	-23.71 peak

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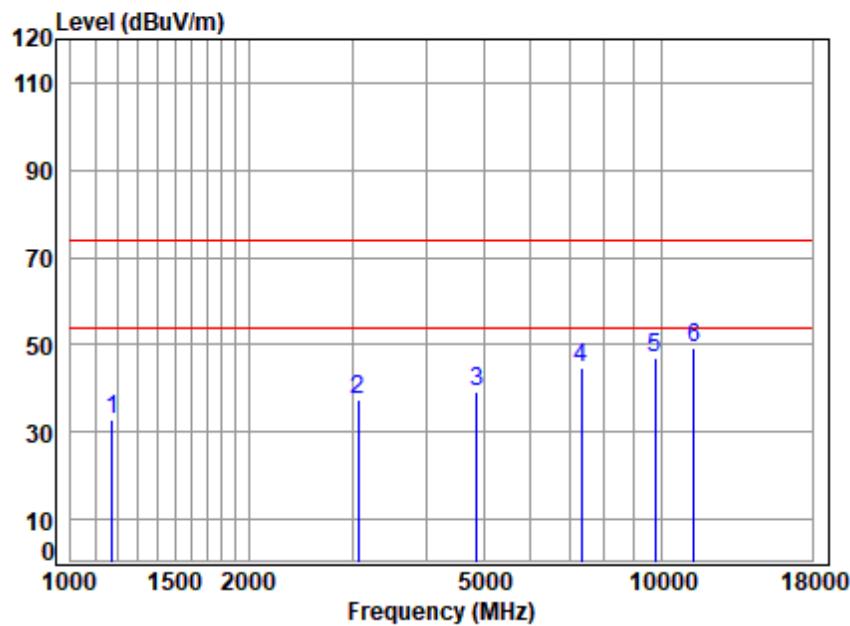
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 01683TL/01684TL

Mode : 2437 TX RSE

: 2.4G Wi-Fi 11b

Freq	Cable	Ant	Preamp	Read	Limit		Over	Remark
	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1175.697	7.17	25.35	54.70	55.07	32.89	74.00	-41.11 peak
2	3069.345	7.86	29.16	55.04	55.53	37.51	74.00	-36.49 peak
3	4874.000	8.97	32.15	56.21	54.25	39.16	74.00	-34.84 peak
4	7311.000	11.11	36.72	56.45	53.49	44.87	74.00	-29.13 peak
5	9748.000	12.80	38.60	54.33	49.80	46.87	74.00	-27.13 peak
6	pp11335.190	14.29	39.70	53.60	48.90	49.29	74.00	-24.71 peak

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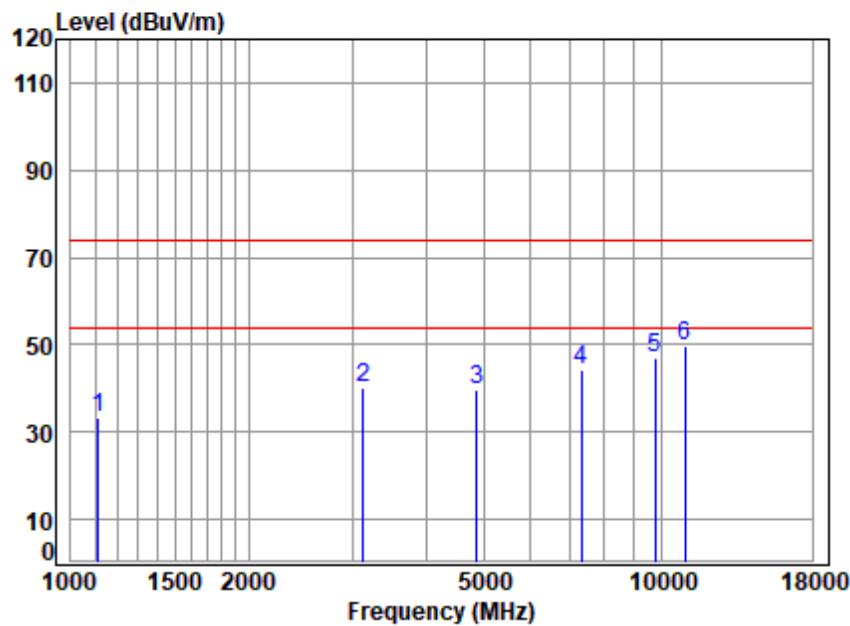
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2437 TX RSE

: 2.4G Wi-Fi 11b

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1112.872	7.11	25.55	54.70	55.54	33.50	74.00	-40.50 peak
2	3123.039	7.71	29.15	55.07	58.52	40.31	74.00	-33.69 peak
3	4874.000	8.97	32.15	56.21	54.63	39.54	74.00	-34.46 peak
4	7311.000	11.11	36.72	56.45	52.77	44.15	74.00	-29.85 peak
5	9748.000	12.80	38.60	54.33	49.78	46.85	74.00	-27.15 peak
6	pp10980.470	14.10	39.38	53.51	49.58	49.55	74.00	-24.45 peak

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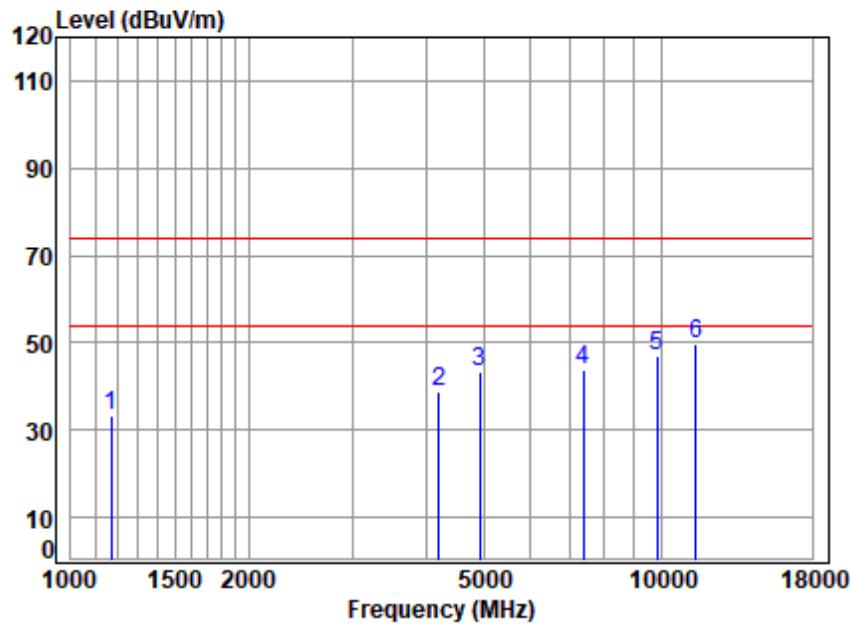
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11b

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark		
	MHz	Loss	Factor	Factor	Level	Level	Line	Limit	
1	1168.920	7.16	25.36	54.70	55.69	33.51	74.00	-40.49	peak
2	4193.872	8.50	30.76	55.74	55.30	38.82	74.00	-35.18	peak
3	4924.000	9.03	32.20	56.25	58.57	43.55	74.00	-30.45	peak
4	7386.000	11.19	36.73	56.39	52.42	43.95	74.00	-30.05	peak
5	9848.000	12.84	37.83	54.24	50.58	47.01	74.00	-26.99	peak
6	pp11433.910	14.14	39.67	53.63	49.70	49.88	74.00	-24.12	peak

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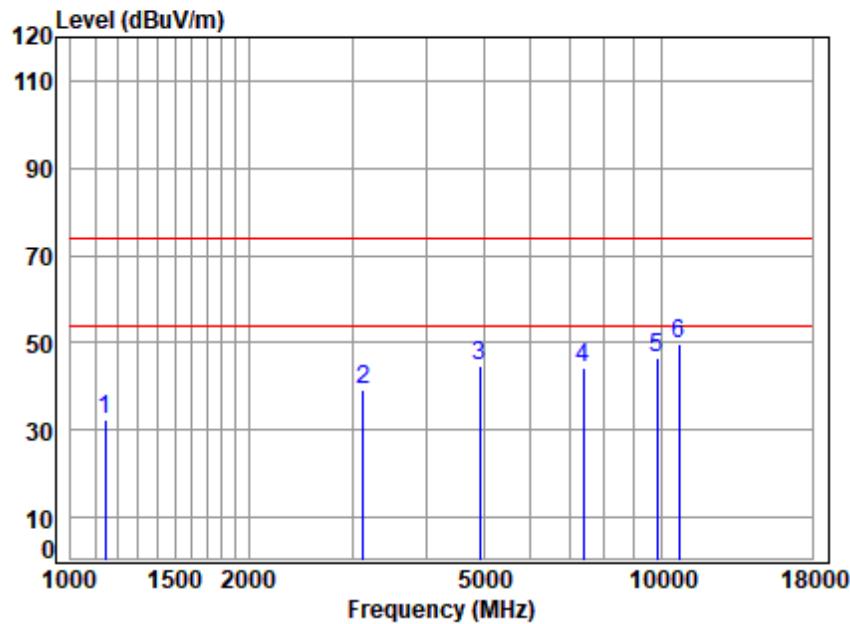
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2462 TX RSE

: 2.4G Wi-Fi 11b

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	1145.507	7.14	25.42	54.70	54.71	32.57	74.00 -41.43 peak
2	3123.039	7.71	29.15	55.07	57.62	39.41	74.00 -34.59 peak
3	4924.000	9.03	32.20	56.25	59.54	44.52	74.00 -29.48 peak
4	7386.000	11.19	36.73	56.39	52.54	44.07	74.00 -29.93 peak
5	9848.000	12.84	37.83	54.24	50.09	46.52	74.00 -27.48 peak
6	pp10698.510	13.55	39.40	53.68	50.29	49.56	74.00 -24.44 peak

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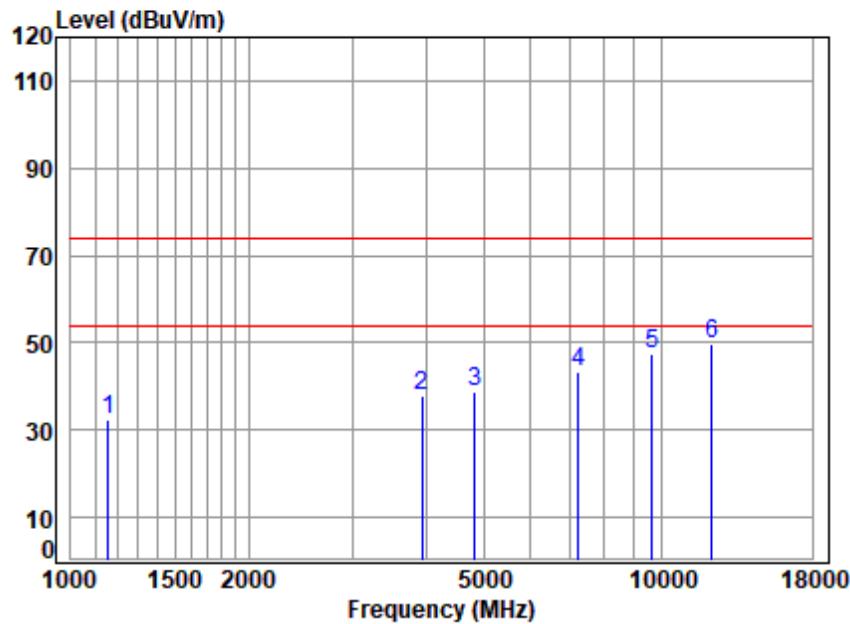
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark		
	MHz	Loss	Factor	Factor	Level	Level	Line	Limit	
1	1158.828	7.15	25.38	54.70	54.61	32.44	74.00	-41.56	peak
2	3935.493	8.09	30.04	55.56	55.41	37.98	74.00	-36.02	peak
3	4824.000	8.92	32.00	56.18	54.21	38.95	74.00	-35.05	peak
4	7236.000	11.10	36.60	56.51	52.14	43.33	74.00	-30.67	peak
5	9648.000	12.49	38.70	54.42	50.74	47.51	74.00	-26.49	peak
6	pp12184.580	14.48	39.87	53.93	49.35	49.77	74.00	-24.23	peak

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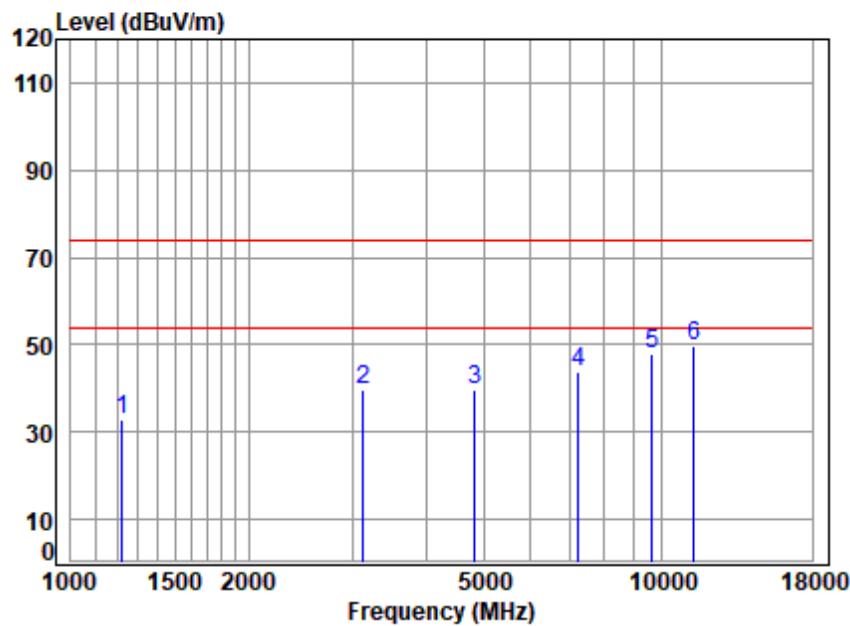
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2412 TX RSE

: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1220.714	7.18	25.30	54.70	54.88	32.66	74.00	-41.34 peak
2	3123.039	7.71	29.15	55.07	57.73	39.52	74.00	-34.48 peak
3	4824.000	8.92	32.00	56.18	54.80	39.54	74.00	-34.46 peak
4	7236.000	11.10	36.60	56.51	52.46	43.65	74.00	-30.35 peak
5	9648.000	12.49	38.70	54.42	51.17	47.94	74.00	-26.06 peak
6	pp11335.190	14.29	39.70	53.60	49.20	49.59	74.00	-24.41 peak

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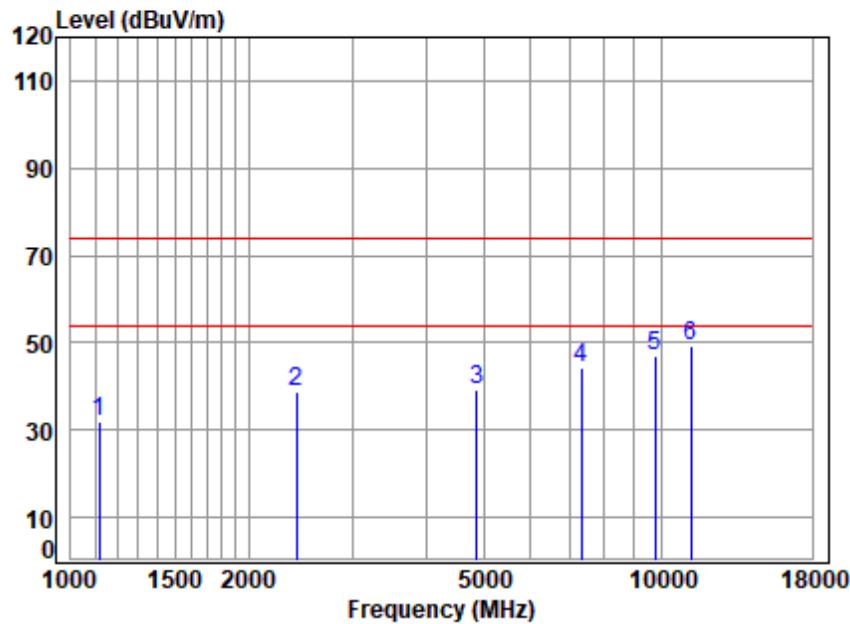
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1119.323	7.12	25.52	54.70	54.11	32.05	74.00	-41.95 peak
2	2407.703	7.39	27.52	54.82	58.80	38.89	74.00	-35.11 peak
3	4874.000	8.97	32.15	56.21	54.45	39.36	74.00	-34.64 peak
4	7311.000	11.11	36.72	56.45	53.01	44.39	74.00	-29.61 peak
5	9748.000	12.80	38.60	54.33	49.79	46.86	74.00	-27.14 peak
6	pp11237.330	14.30	39.64	53.57	48.98	49.35	74.00	-24.65 peak

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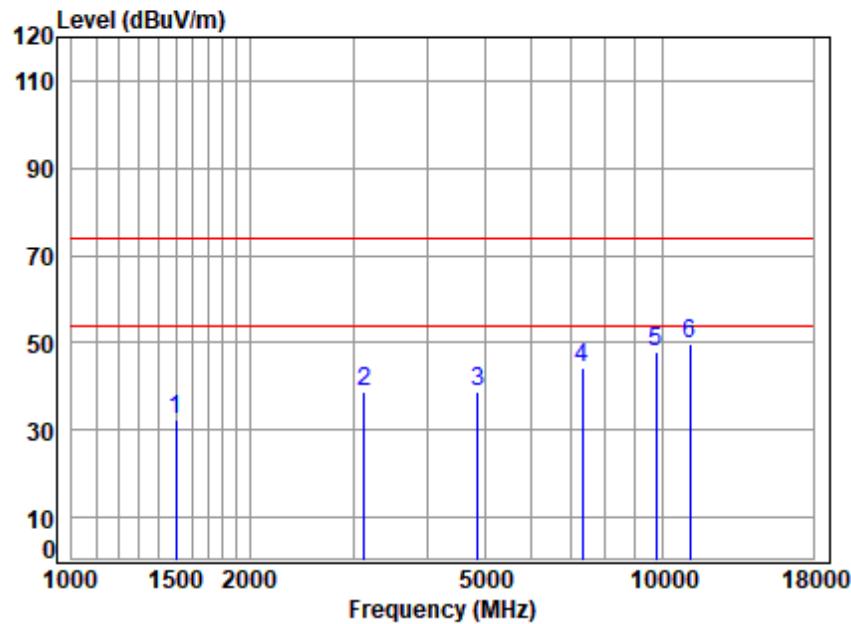
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2437 TX RSE

: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit		Over	Remark
	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1498.781	7.22	24.90	54.70	55.02	32.44	74.00	-41.56 peak
2	3123.039	7.71	29.15	55.07	57.17	38.96	74.00	-35.04 peak
3	4874.000	8.97	32.15	56.21	53.90	38.81	74.00	-35.19 peak
4	7311.000	11.11	36.72	56.45	53.09	44.47	74.00	-29.53 peak
5	9748.000	12.80	38.60	54.33	50.62	47.69	74.00	-26.31 peak
6	pp11140.310	14.17	39.54	53.54	49.42	49.59	74.00	-24.41 peak

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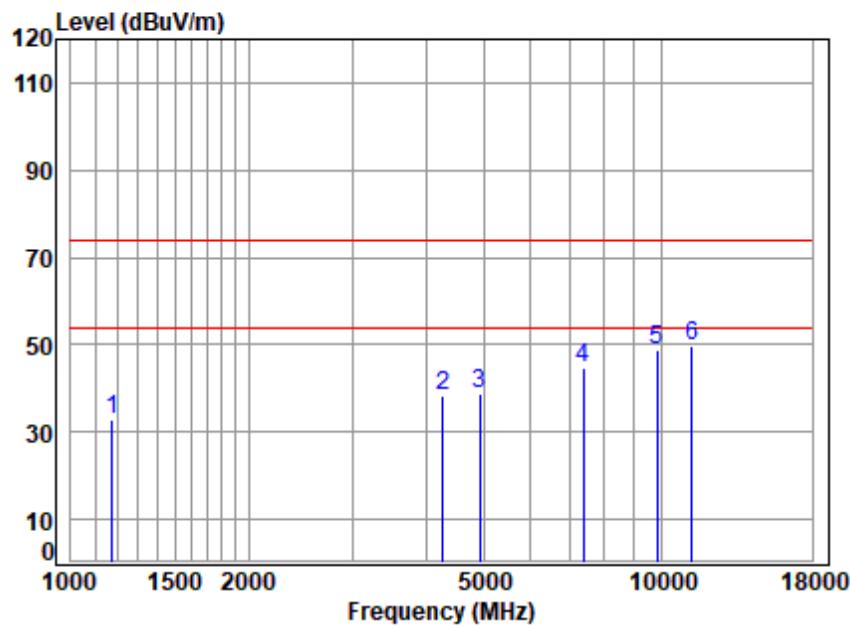
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1175.697	7.17	25.35	54.70	54.97	32.79	74.00 -41.21 peak
2	4267.237	8.47	31.17	55.79	54.55	38.40	74.00 -35.60 peak
3	4924.000	9.03	32.20	56.25	53.93	38.91	74.00 -35.09 peak
4	7386.000	11.19	36.73	56.39	53.08	44.61	74.00 -29.39 peak
5	9848.000	12.84	37.83	54.24	52.32	48.75	74.00 -25.25 peak
6	pp11269.860	14.35	39.67	53.58	49.45	49.89	74.00 -24.11 peak

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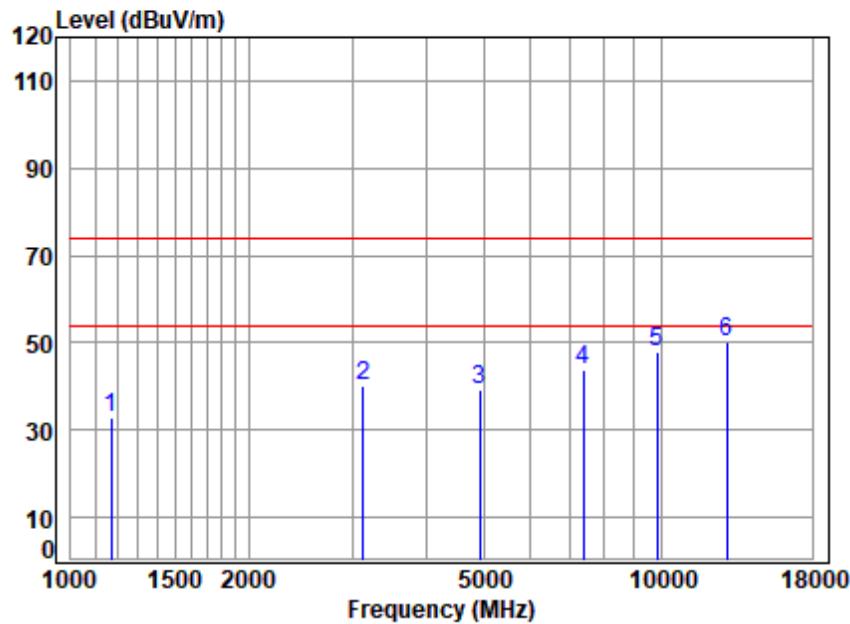
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2462 TX RSE

: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1168.920	7.16	25.36	54.70	55.08	32.90	74.00	-41.10 peak
2	3123.039	7.71	29.15	55.07	58.47	40.26	74.00	-33.74 peak
3	4924.000	9.03	32.20	56.25	54.12	39.10	74.00	-34.90 peak
4	7386.000	11.19	36.73	56.39	52.26	43.79	74.00	-30.21 peak
5	9848.000	12.84	37.83	54.24	51.33	47.76	74.00	-26.24 peak
6	pp12909.700	15.24	40.39	54.44	48.84	50.03	74.00	-23.97 peak

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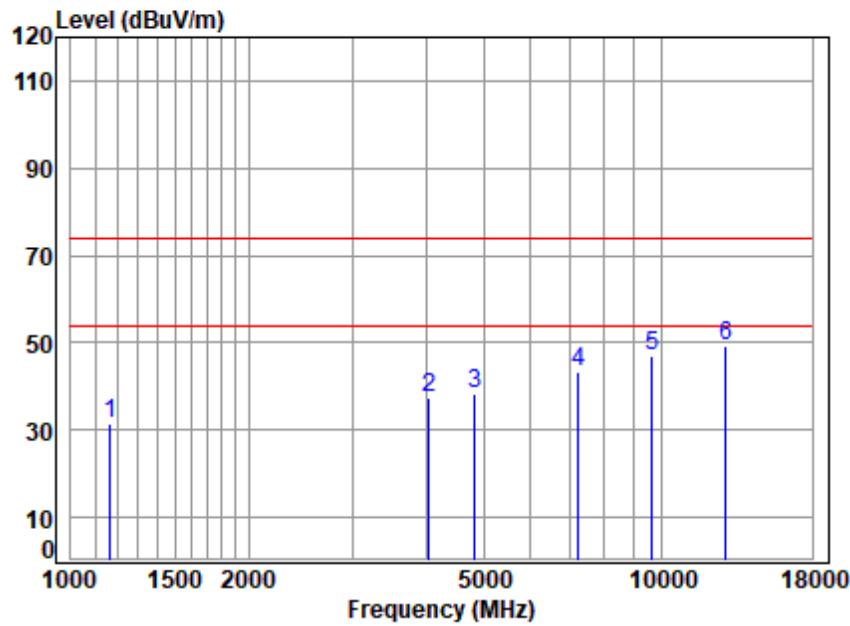
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
 Job No : 01683TL/01684TL
 Mode : 2412 TX RSE
 : 2.4G Wi-Fi 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1165.546	7.16	25.37	54.70	53.83	31.66	74.00 -42.34 peak
2	4039.212	8.21	30.28	55.63	54.35	37.21	74.00 -36.79 peak
3	4824.000	8.92	32.00	56.18	53.51	38.25	74.00 -35.75 peak
4	7236.000	11.10	36.60	56.51	52.05	43.24	74.00 -30.76 peak
5	9648.000	12.49	38.70	54.42	50.04	46.81	74.00 -27.19 peak
6	pp12835.290	15.18	40.34	54.38	48.17	49.31	74.00 -24.69 peak

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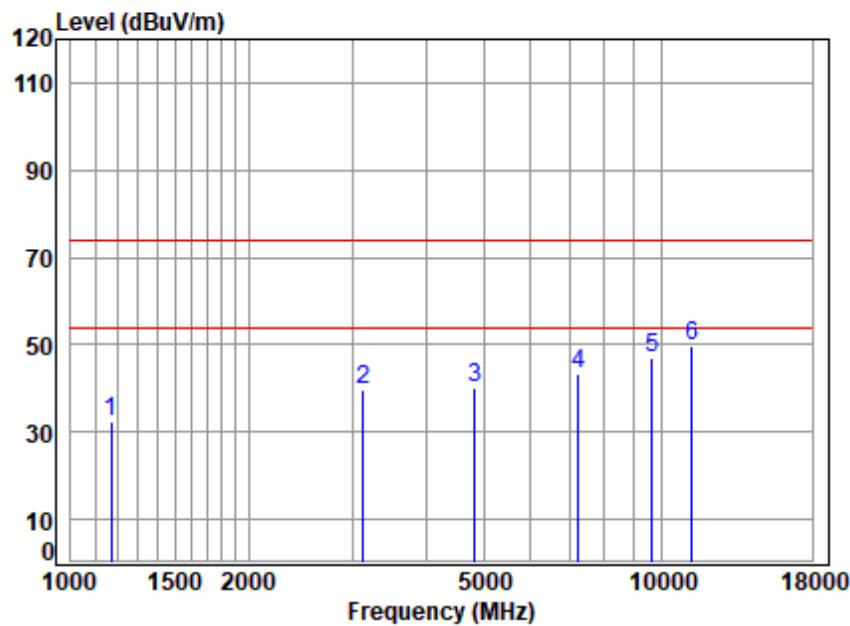
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2412 TX RSE

: 2.4G Wi-Fi 11ax20

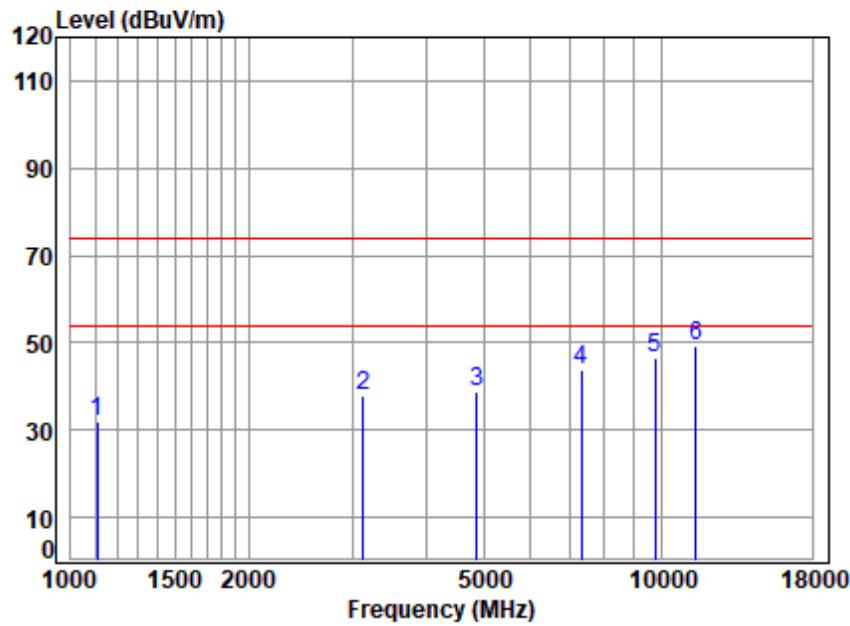
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	1172.303	7.17	25.36	54.70	54.43	32.26	74.00 -41.74 peak
2	3123.039	7.71	29.15	55.07	58.04	39.83	74.00 -34.17 peak
3	4824.000	8.92	32.00	56.18	55.35	40.09	74.00 -33.91 peak
4	7236.000	11.10	36.60	56.51	52.06	43.25	74.00 -30.75 peak
5	9648.000	12.49	38.70	54.42	50.07	46.84	74.00 -27.16 peak
6	pp11269.860	14.35	39.67	53.58	49.25	49.69	74.00 -24.31 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1109.660	7.11	25.56	54.70	53.93	31.90	74.00	-42.10 peak
2	3132.079	7.71	29.16	55.08	55.90	37.69	74.00	-36.31 peak
3	4874.000	8.97	32.15	56.21	53.86	38.77	74.00	-35.23 peak
4	7311.000	11.11	36.72	56.45	52.47	43.85	74.00	-30.15 peak
5	9748.000	12.80	38.60	54.33	49.40	46.47	74.00	-27.53 peak
6	pp11433.910	14.14	39.67	53.63	48.97	49.15	74.00	-24.85 peak

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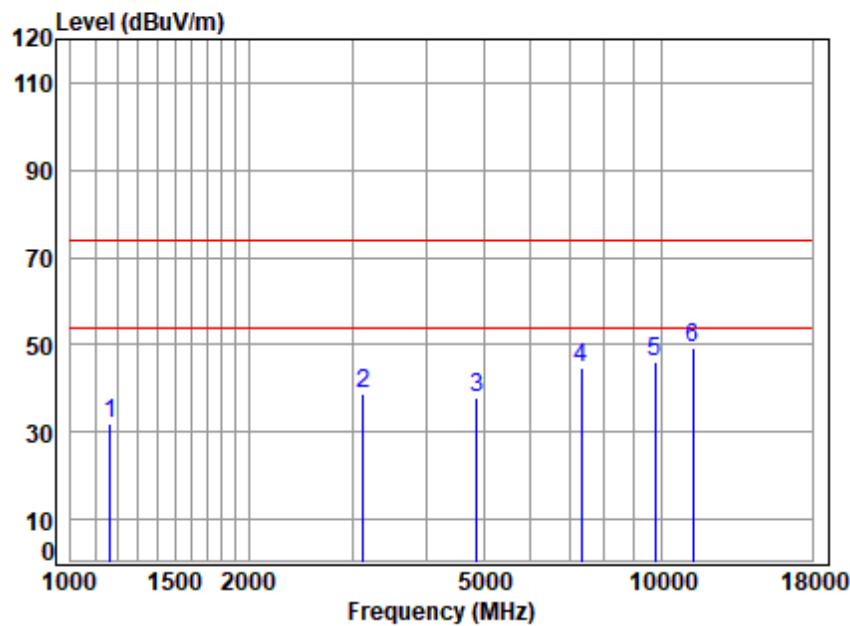
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2437 TX RSE

: 2.4G Wi-Fi 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1165.546	7.16	25.37	54.70	54.24	32.07	74.00	-41.93 peak
2	3123.039	7.71	29.15	55.07	57.20	38.99	74.00	-35.01 peak
3	4874.000	8.97	32.15	56.21	53.10	38.01	74.00	-35.99 peak
4	7311.000	11.11	36.72	56.45	53.35	44.73	74.00	-29.27 peak
5	9748.000	12.80	38.60	54.33	49.17	46.24	74.00	-27.76 peak
6	pp11302.480	14.39	39.70	53.59	48.60	49.10	74.00	-24.90 peak

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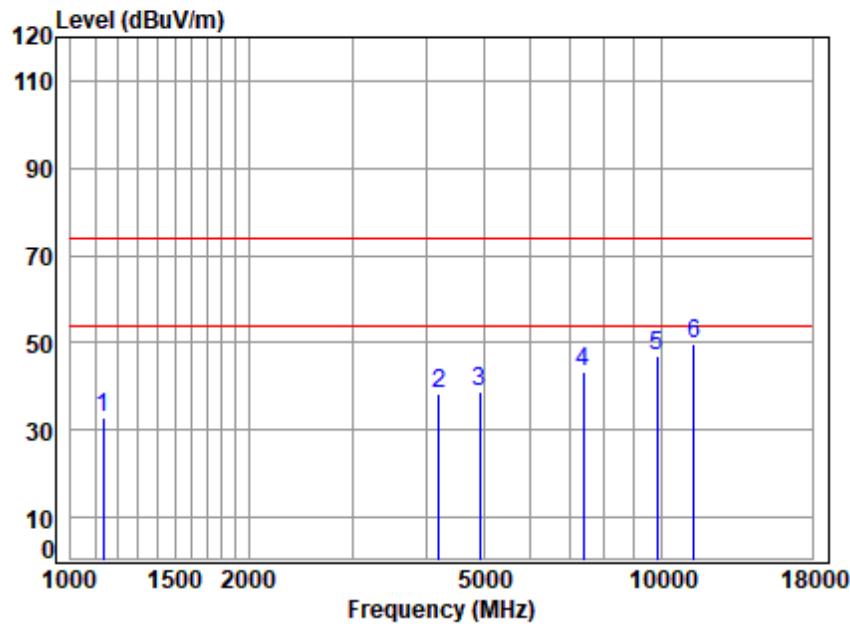
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

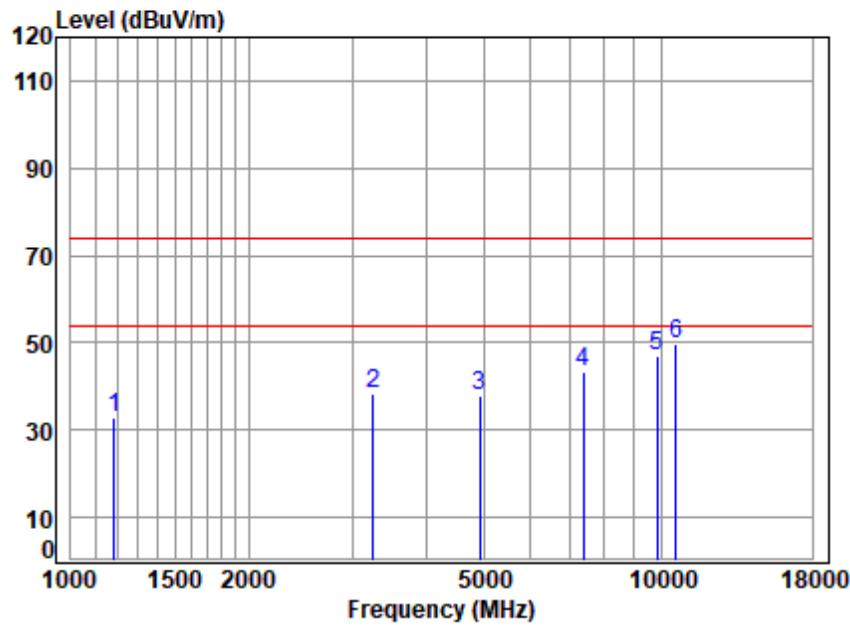


Condition: 3m HORIZONTAL
Job No : 01683TL/01684TL
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	1135.617	7.13	25.46	54.70	55.09	32.98	74.00 -41.02 peak
2	4206.011	8.51	30.84	55.74	54.84	38.45	74.00 -35.55 peak
3	4924.000	9.03	32.20	56.25	53.77	38.75	74.00 -35.25 peak
4	7386.000	11.19	36.73	56.39	52.03	43.56	74.00 -30.44 peak
5	9848.000	12.84	37.83	54.24	50.74	47.17	74.00 -26.83 peak
6	pp11335.190	14.29	39.70	53.60	49.52	49.91	74.00 -24.09 peak



Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 01683TL/01684TL

Mode : 2462 TX RSE

: 2.4G Wi-Fi 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1185.936	7.18	25.33	54.70	54.85	32.66	74.00 -41.34 peak
2	3252.005	7.64	29.30	55.15	56.40	38.19	74.00 -35.81 peak
3	4924.000	9.03	32.20	56.25	53.02	38.00	74.00 -36.00 peak
4	7386.000	11.19	36.73	56.39	51.77	43.30	74.00 -30.70 peak
5	9848.000	12.84	37.83	54.24	50.38	46.81	74.00 -27.19 peak
6	pp10575.540	13.35	39.25	53.75	51.03	49.88	74.00 -24.12 peak

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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2504001683TL

8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2504001683TL

- End of the Report -



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