

FCC Radio Test Report

FCC ID: 2A5CV-RH-009**The report concerns: Original Grant**

Report Reference No.....: 24EFSS11090 05351
Date Sample(s) Received.....: 2025-02-17
Date of Tested.....: From 2025-02-17 to 2025-03-22
Date of issue.....: 2025-04-02

Testing Laboratory: DongGuanShuoXin Electronic Technology Co., Ltd.
Address: Zone A, 1F, No. 6, XinGang Road YuanGang Street,
XinAn District, ChangAn Town, DongGuan City,
GuangDong, China

Applicant's name: Huizhou Ronghui Technology Co., Ltd
Address: Liboshui No.1 Industrial Zone, Shiwan Town, Boluo
County, Huizhou City, Guangdong Province, China
Manufacturer.....: Huizhou Ronghui Technology Co., Ltd

Equipment.....: Wireless Controller for RH-009
Trade Mark: /
Model: RH-009
Ratings: I/P: 5Vdc, 500mA

Test Engineer:

Jelena OuYang

Responsible Engineer :

Leo Chen

Authorized Signatory:

Smile Wang

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1. TEST REPORT DECLARE

Applicant	Huizhou Ronghui Technology Co., Ltd
Address	Liboshui No.1 Industrial Zone, Shiwan Town, Boluo County, Huizhou City, Guangdong Province, China
Manufacturer	Huizhou Ronghui Technology Co., Ltd
Address	Liboshui No.1 Industrial Zone, Shiwan Town, Boluo County, Huizhou City, Guangdong Province, China
Factory	Huizhou Ronghui Technology Co., Ltd
Address	Liboshui No.1 Industrial Zone, Shiwan Town, Boluo County, Huizhou City, Guangdong Province, China
Equipment	Wireless Controller for RH-009
Model No.	RH-009
Trade Mark	/
Standard	FCC Part15, Subpart C (15.247) ANSI C63.10-2013

We Declare:

The equipment described above is tested by DongGuanShuoXin Electronic Technology Co., Ltd(ATT). and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and DongGuanShuoXin Electronic Technology Co., Ltd.(ATT) is assumed of full responsibility for the accuracy and completeness of these tests.

ATT is not responsible for the sampling stage, so the results only apply to the sample as received.

ATT's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. ATT shall have no liability for any declarations, inferences or generalizations drawn by the client or others from ATT issued reports.

2. SUMMARY OF TEST RESULTS

The EUT have been tested according to the applicable standards as referenced below:

Standard(s) Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	-----
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	PASS	-----
15.247(a)(2)	Bandwidth	PASS	-----
15.247(b)(3)	Maximum Output Power	PASS	-----
15.247(d)	Conducted Spurious Emission	PASS	-----
15.247(e)	Power Spectral Density	PASS	-----
15.203	Antenna Requirement	PASS	Note(2)

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

2.1 MEASUREMENT UNCERTAINTY

Test Item	Uncertainty
Uncertainty for Conduction emission test (9kHz-150kHz)	3.7 dB
Uncertainty for Conduction emission test (150kHz-30MHz)	3.3 dB
Uncertainty for Radiation Emission test (30MHz-200MHz)	4.60 dB (Polarize: V)
	4.60 dB (Polarize: H)
Uncertainty for Radiation Emission test (200MHz-1GHz)	6.10 dB (Polarize: V)
	5.08 dB (Polarize: H)
Uncertainty for Radiation Emission test (1GHz-6GHz)	5.01 dB (Polarize: V)
	5.01 dB (Polarize: H)
Uncertainty for Radiation Emission test (6GHz-18GHz)	5.26 dB (Polarize: V)
	5.26 dB (Polarize: H)
Uncertainty for Radiation Emission test (18GHz-40GHz)	5.06 dB (Polarize: V)
	5.06 dB (Polarize: H)
Uncertainty for radio frequency	$\pm 0.048\text{kHz}$
Uncertainty for conducted RF Power	$\pm 0.32\text{dB}$

Note:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Test Facility:

The Test site used by DongGuanShuoXin Electronic Technology Co., Ltd. to collect test data is located on the Zone A, 1F, No. 6, XinGang Road YuanGang Street, XinAn District, ChangAn Town, DongGuan City, GuangDong, China

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

Item	Registration No.	Expiration Date
CNAS	L3098	2030-08-27
A2LA	4893.01	2026-06-30
Innovation, Science and Economic Development Canada (ISED)	11033A	2026-06-30
Federal Communications Commission (FCC)	171688 Designation No.:CN1235	2026-06-30

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Controller for RH-009	
Brand Name	/	
Test Model	RH-009	
Series Model	N/A	
Model Difference(s)	N/A	
Hardware Version	1.0	
Software Version	1.0	
Power Source	USB	
Power Rating	I/P: 5Vdc, 500mA	
Operation Frequency	2412 MHz~ 2462 MHz	
Modulation Technology	IEEE 802.11b:DSSS IEEE 802.11g:OFDM IEEE 802.11n:OFDM	
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps	
Operating Mode	IEEE 802.11b: TX IEEE 802.11g: TX IEEE 802.11n (HT20): TX	
Antenna Information	Antenna Type: PIFA	Maximum Peak Gain:1.14dBi (Provide by manufacturer)
Max. Output Power	IEEE 802.11b: 7.31dBm(0.005383W) IEEE 802.11g: 7.65dBm(0.005821W) IEEE 802.11n (HT20): 7.87dBm(0.006124W)	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (HT20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N-20 MHz Mode Channel 01/06/11
Mode 4	TX N-20 MHz Mode Channel 06

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 4	TX N-20 MHz Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 4	TX N-20 MHz Mode Channel 06

Radiated emissions test- Above 1GHz	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N-20 MHz Mode Channel 01/06/11

Conducted test	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N-20 MHz Mode Channel 01/06/11

NOTE:

(1) The measurements are performed at the high, middle, low available channels.

(2) 802.11b mode: DBPSK (1Mbps)

802.11g mode: OFDM (6Mbps)

802.11n HT20 mode: BPSK (13Mbps)

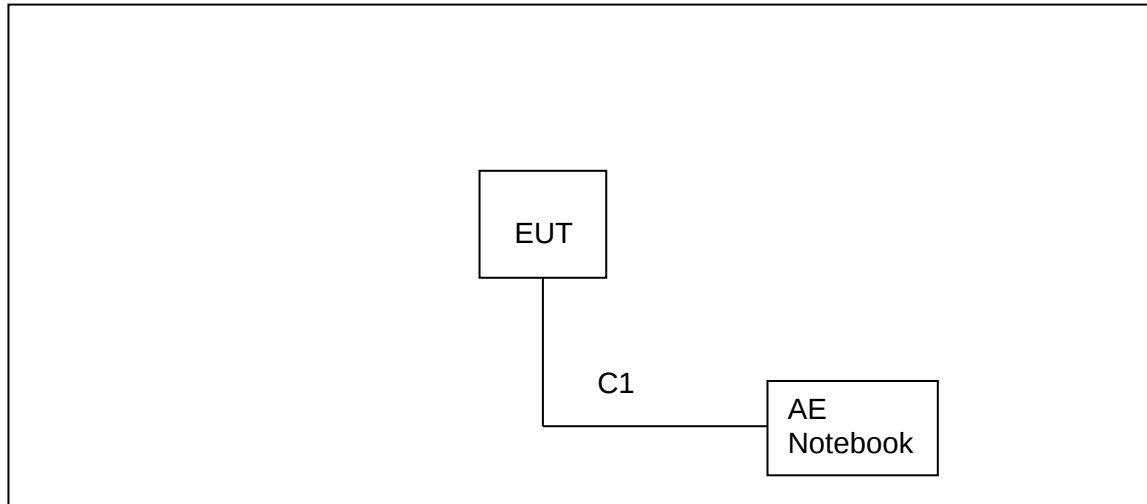
For radiated emission tests, the highest output powers were set for final test.

(3) For radiated emission below 1GHz and AC power line conducted emissions test, the IEEE 802.11n20 channel 06 is found to be the worst case and recorded.

3.3 PARAMETERS OF TEST SOFTWARE

Test Software	iComm_HW_Tool_1.3.5		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	Default	Default	Default
IEEE 802.11g	Default	Default	Default
IEEE 802.11n (HT20)	Default	Default	Default

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
AE	Notebook	Lenovo	/	/

Item	Cable Type	Shielded Type	Ferrite Core	Length
C1	DC Cable	NO	NO	0.8m

3.6 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage
AC Power Line Conducted Emissions	25°C	53%	DC 5V (AC 120V/60Hz)
Radiated Emissions-9K-30MHz	25°C	60%	DC 5V
Radiated Emissions-30 MHz to 1GHz	24.6°C	53%	DC 5V
Radiated Emissions-Above 1000 MHz	24.1°C	42%	DC 5V
Bandwidth	24.8°C	40.9%	DC 5V
Maximum Output Power	24.8°C	40.9%	DC 5V
Conducted Spurious Emission	24.8°C	40.9%	DC 5V
Power Spectral Density	24.8°C	40.9%	DC 5V

3.7 DUTY CYCLE

All tests were performed under the condition of 100% Duty Cycle

NOTE:

For IEEE 802.11b, IEEE 802.11g IEEE 802.11n (HT20)

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

4. AC POWER LINE CONDUCTED EMISSIONS TEST

4.1 LIMIT

Frequency of Emission (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 -0.50	66to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

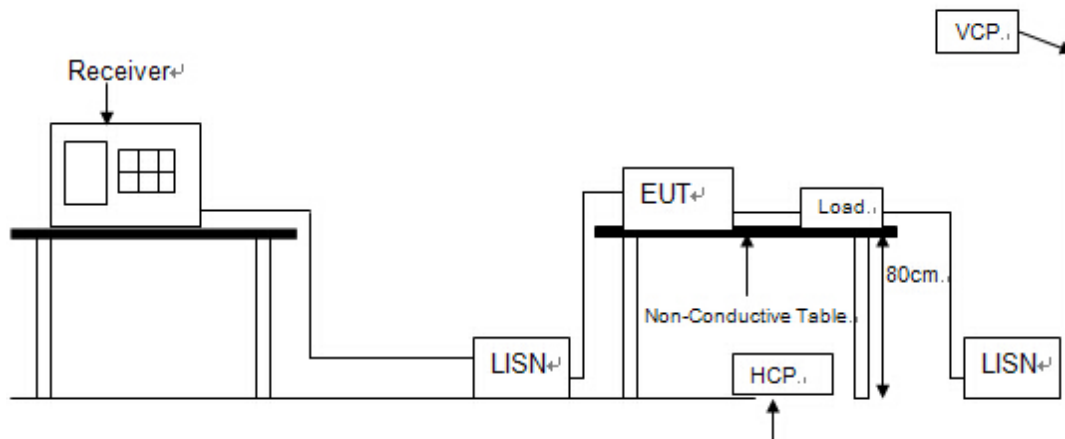
4.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.

4.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Pulse Limiter	MTS-systemtec hnik	MTS-IMP-136	261115-010-0024	11/17/2025
2	EMI Test Receiver	R&S	ESCI	101308	06/05/2025
3	LISN	AFJ	LS16	16011103219	06/05/2025
4	LISN	Schwarzbeck	NSLK 8127	8127-432	06/05/2025
5	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

4.4 TESTSETUP

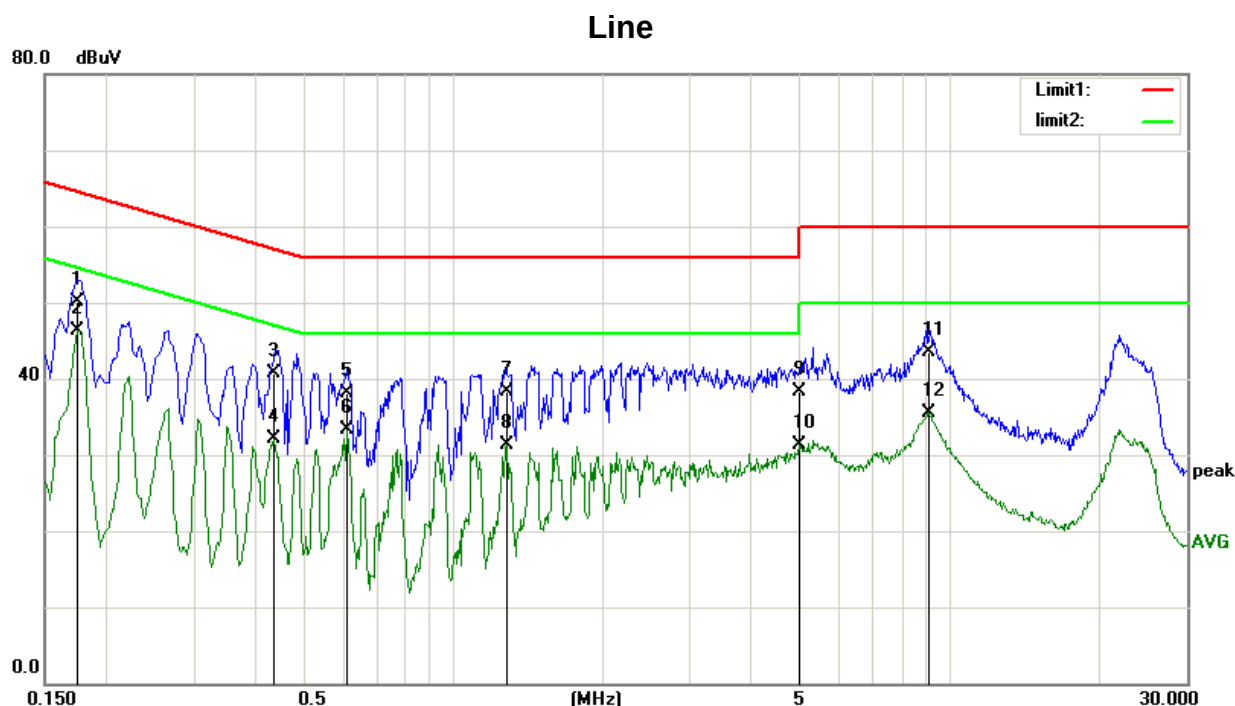


4.5 EUT OPERATION CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.6 TEST RESULTS

Test Mode: TX N-20 MHz Mode Channel 06



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1740	39.47	10.68	50.15	64.76	-14.61	QP
2	0.1740	35.63	10.68	46.31	54.76	-8.45	AVG
3	0.4340	29.97	10.80	40.77	57.18	-16.41	QP
4	0.4340	21.31	10.80	32.11	47.18	-15.07	AVG
5	0.6097	27.55	10.65	38.20	56.00	-17.80	QP
6	0.6097	22.58	10.65	33.23	46.00	-12.77	AVG
7	1.2860	27.73	10.66	38.39	56.00	-17.61	QP
8	1.2860	20.62	10.66	31.28	46.00	-14.72	AVG
9	4.9698	27.52	10.78	38.30	56.00	-17.70	QP
10	4.9698	20.46	10.78	31.24	46.00	-14.76	AVG
11	9.0700	32.54	10.87	43.41	60.00	-16.59	QP
12	9.0700	24.71	10.87	35.58	50.00	-14.42	AVG

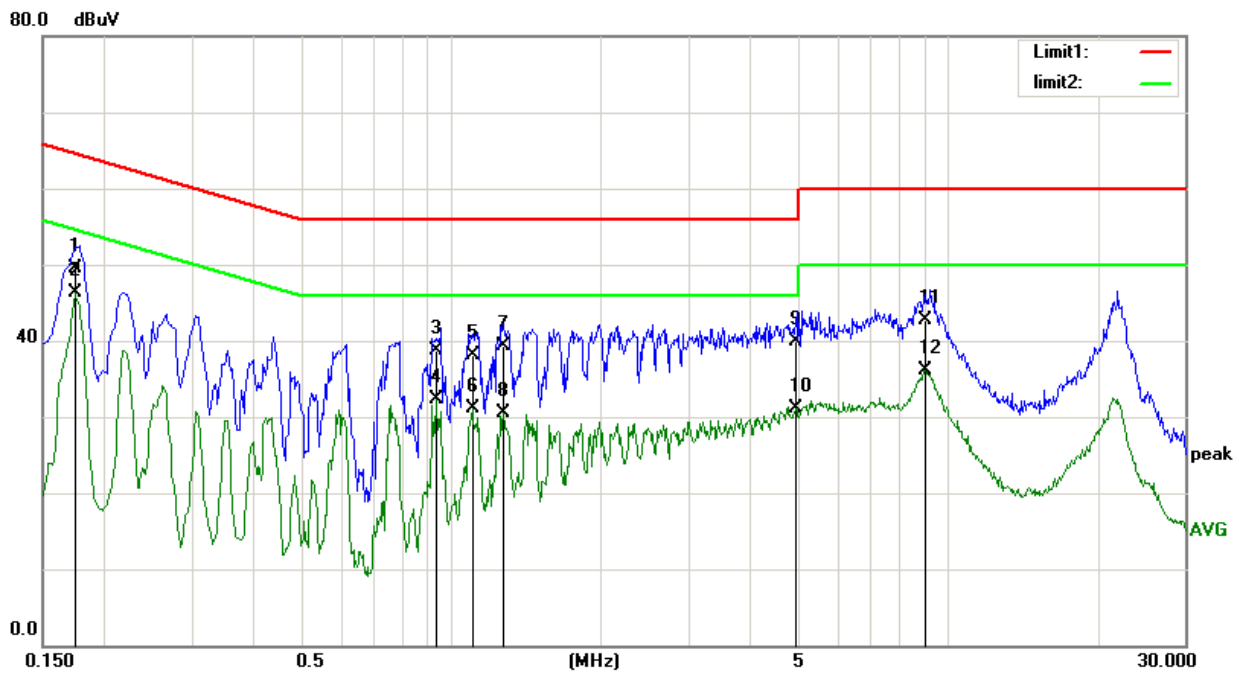
Remarks:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20 MHz Mode Channel 06

Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1740	38.75	10.68	49.43	64.76	-15.33	QP
2	0.1740	35.65	10.68	46.33	54.76	-8.43	AVG
3	0.9300	28.00	10.66	38.66	56.00	-17.34	QP
4	0.9300	21.74	10.66	32.40	46.00	-13.60	AVG
5	1.1019	27.54	10.61	38.15	56.00	-17.85	QP
6	1.1019	20.48	10.61	31.09	46.00	-14.91	AVG
7	1.2740	28.69	10.66	39.35	56.00	-16.65	QP
8	1.2740	19.84	10.66	30.50	46.00	-15.50	AVG
9	4.9298	29.13	10.78	39.91	56.00	-16.09	QP
10	4.9298	20.41	10.78	31.19	46.00	-14.81	AVG
11	9.0020	31.92	10.87	42.79	60.00	-17.21	QP
12	9.0020	25.27	10.87	36.14	50.00	-13.86	AVG

Remarks:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

5. RADIATED EMISSION TEST

5.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a) and RSS-Gen 8.10, then the 15.209(a) and RSS-Gen 8.9 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000MHz)

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

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-30 MHz)

Frequency (MHz)	Magnetic field strength (H-Field) (μ A/m)	Measurement Distance (meters)
0.009-0.490	6.37/F(kHz)	300
0.490-1.705	6.37/F(kHz)	30
1.705-30.0	0.08	30

LIMITS OF RADIATED EMISSION MEASUREMENT (30 MHz-1000MHz)

Frequency (MHz)	Field Strength (μ V/m at 3m)
30-88	100
88-216	150
216-960	200
Above 960	500

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

NOTE:

- (1) The limit for radiated test was performed according to FCC PART 15C and RSS-247.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (μ V/m).

5.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. 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 find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. The test result is calculated as the following:
 - (1) Result = Reading + Correct Factor
 - (2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator
 - (3) Margin = Result - Limit

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

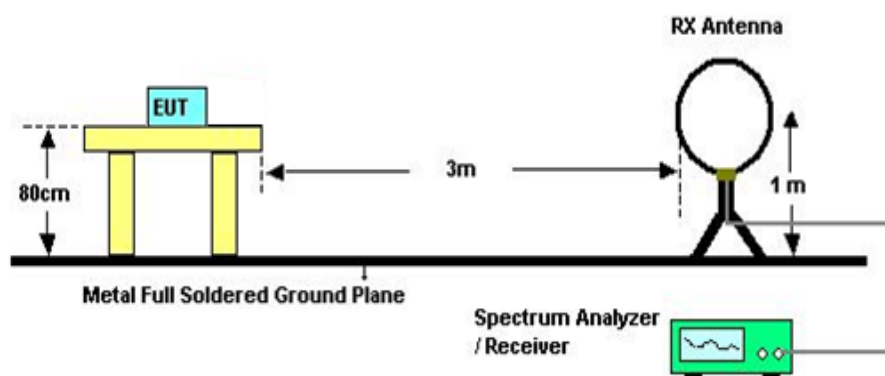
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

5.3 MEASUREMENT INSTRUMENTS LIST

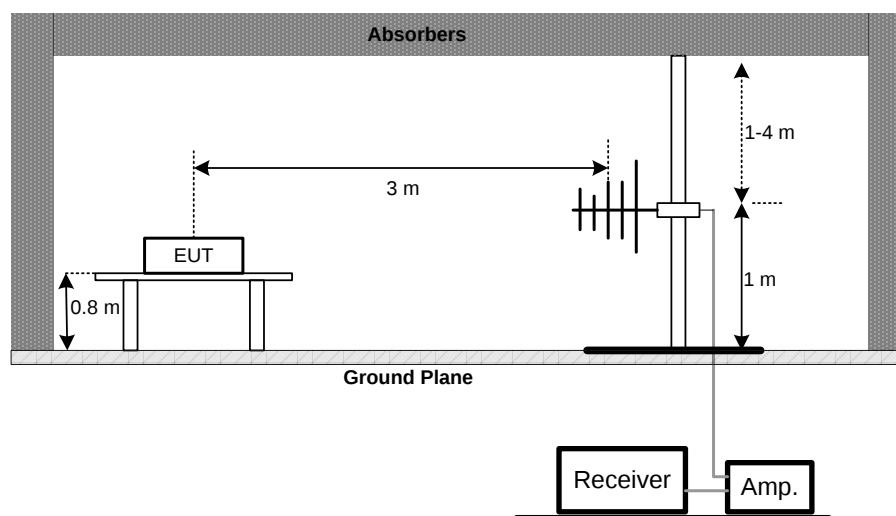
Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	101307	06/05/2025
2	Spectrum Analyzer	Agilent	E4407B	US40240708	11/17/2025
3	Loop antenna	SCHWARZBECK K	FMZB1519	1519-062	03/30/2025
4	Broadband antenna	SCHWARZBECK	VULB9168	VULB9168-192	03/29/2025
5	HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D 1065	03/29/2025
6	Preamplifier Amplifier	HP	8447F	3113A05680	11/17/2025
7	PRE-AMPLIFIER	EMEC	EM01G26G	980136	03/29/2025
8	RF Cable	R&S	Test Cable 4	4	11/17/2025
9	RF Cable	R&S	Test Cable 5	5	11/17/2025
10	RF Cable	R&S	Test Cable 9	9	04/17/2025
11	RF Cable	R&S	Test Cable 10	10	04/17/2025
12	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

5.4 TESTSETUP

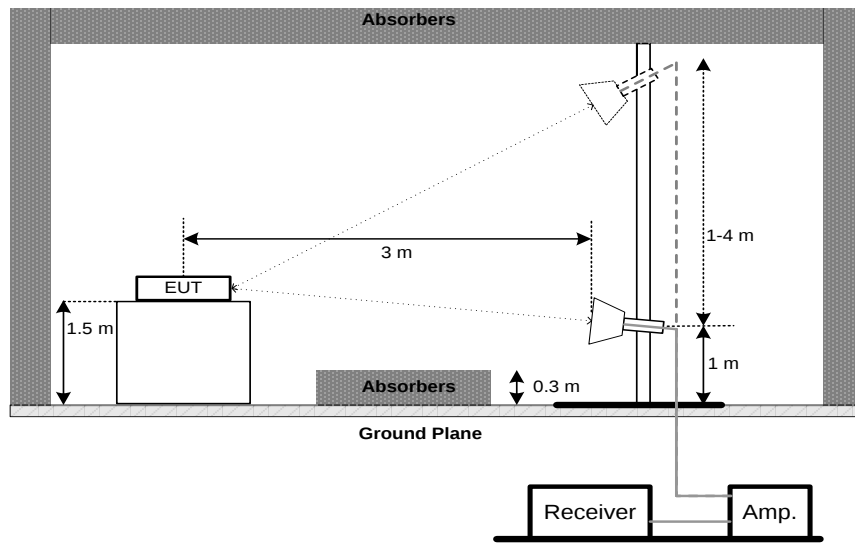
9 kHz-30 MHz



30 MHz to 1 GHz



Above 1 GHz



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS - 9kHz TO 30MHz

Test Mode:	TX N-20 MHz Mode Channel 06
------------	-----------------------------

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	P
--	--	--	--	P

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

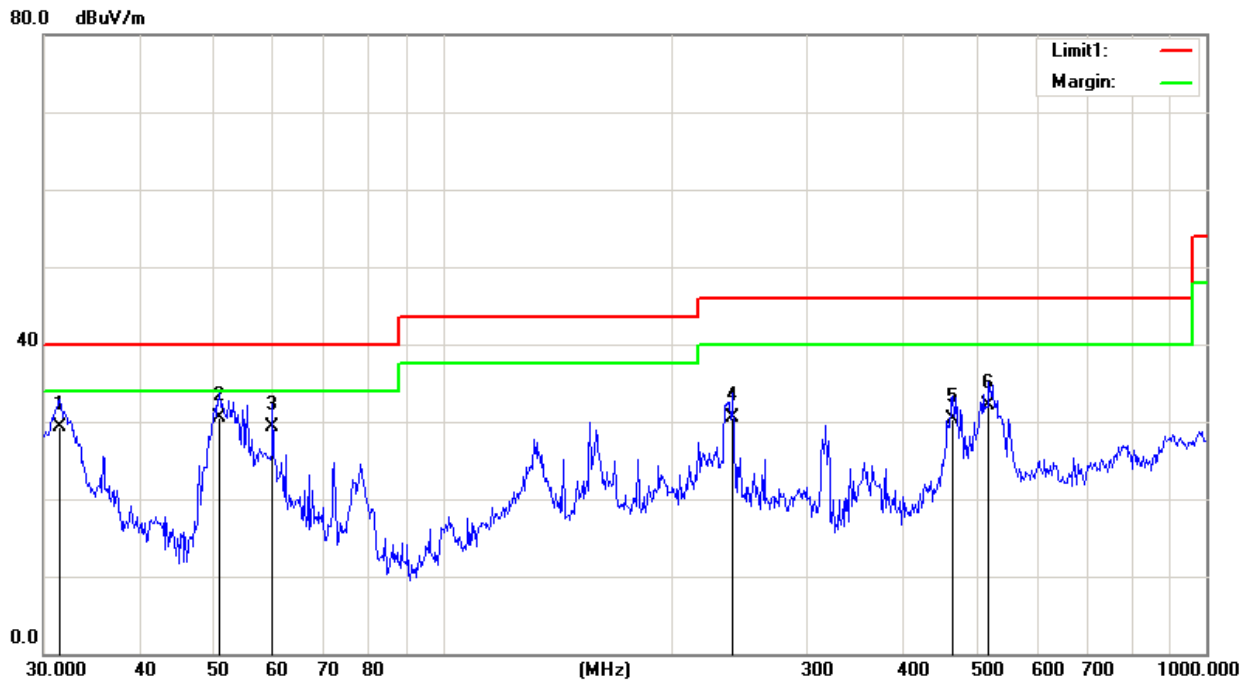
Distance extrapolation factor = $20 \log (\text{specific distance/test distance})(\text{dB})$;

Limit line = specific limits(dBuv) + distance extrapolation factor

5.7 TEST RESULTS - 30MHz TO 1000MHz

Test Mode : TX N-20 MHz Mode Channel 06

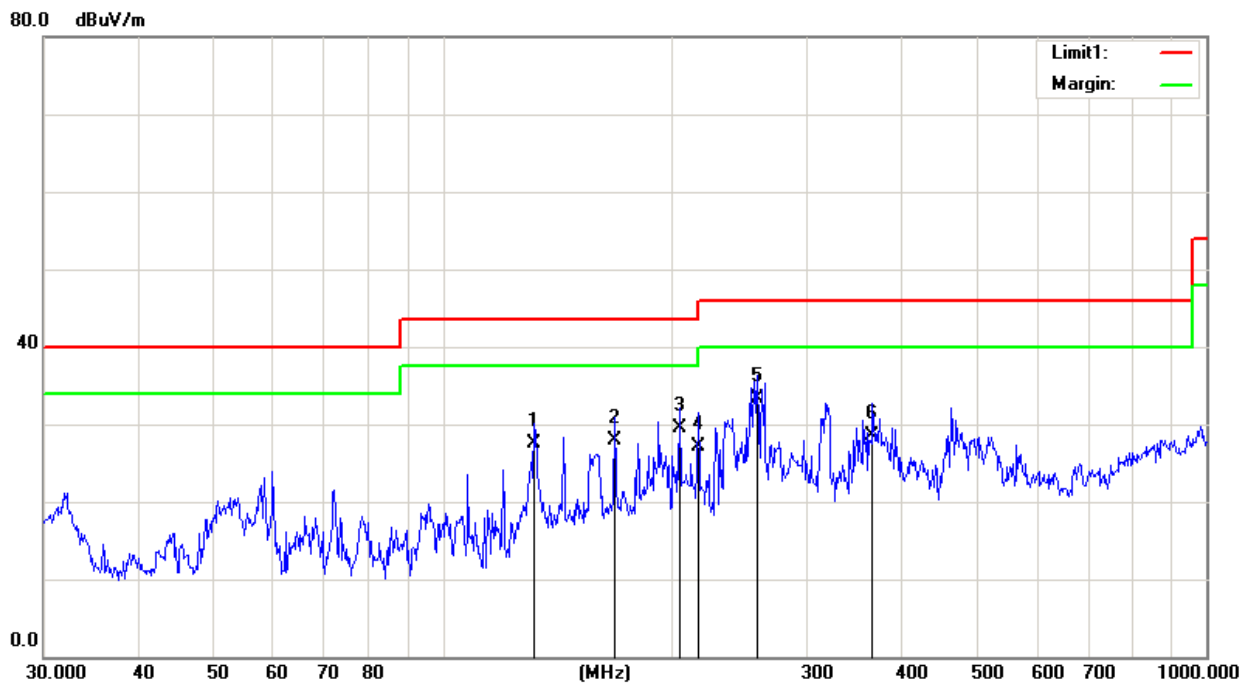
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dB/m	dB	cm	degree	
1		31.5091	44.89	-15.53	29.36	40.00	-10.64	QP	200	26
2	*	50.9420	44.74	-14.28	30.46	40.00	-9.54	QP	100	96
3		59.8588	43.73	-14.41	29.32	40.00	-10.68	QP	100	211
4		239.9874	43.00	-12.40	30.60	46.00	-15.40	QP	100	107
5		465.5994	37.59	-7.23	30.36	46.00	-15.64	QP	100	228
6		519.0647	38.83	-6.78	32.05	46.00	-13.95	QP	100	87

Test Mode : TX N-20 MHz Mode Channel 06

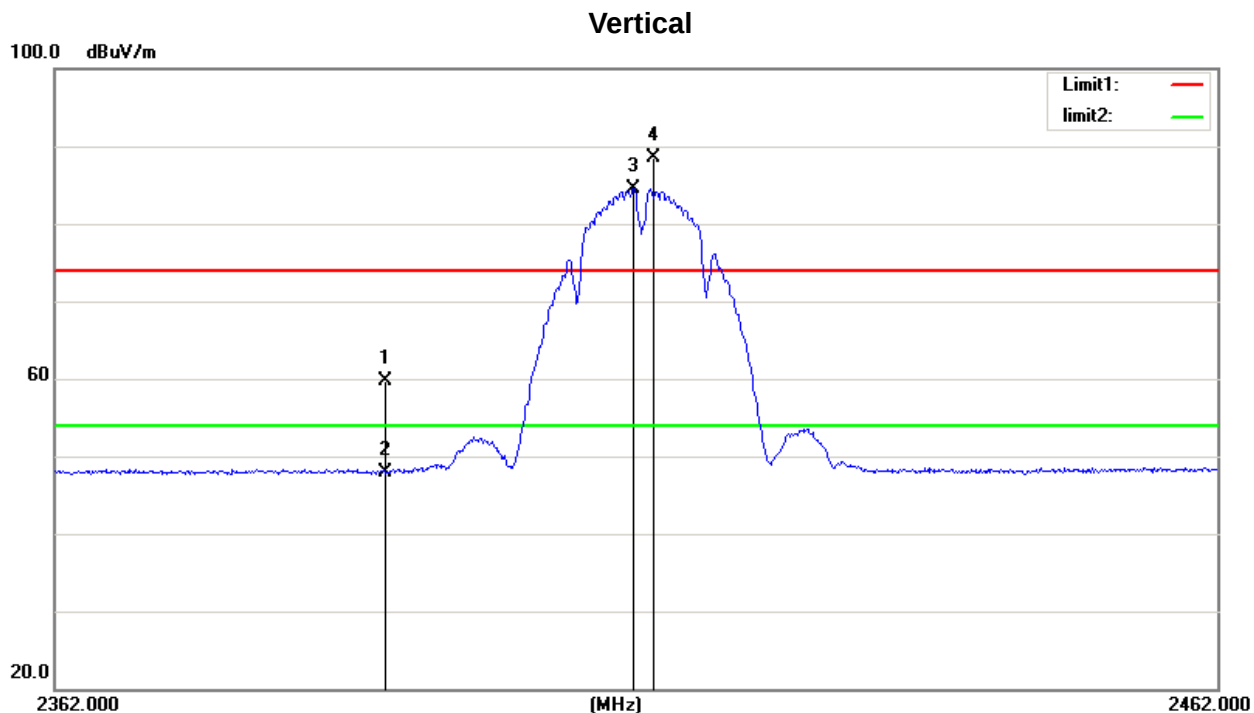
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dB/m	dB	cm	degree	
1		131.7572	40.54	-12.98	27.56	43.50	-15.94	QP	100	36
2		167.8240	39.15	-11.33	27.82	43.50	-15.68	QP	200	246
3		204.2375	42.51	-13.05	29.46	43.50	-14.04	QP	200	302
4		216.0240	40.47	-13.31	27.16	46.00	-18.84	QP	100	109
5	*	258.3263	44.87	-11.64	33.23	46.00	-12.77	QP	100	89
6		365.5391	37.01	-8.45	28.56	46.00	-17.44	QP	100	6

5.8 TEST RESULTS- ABOVE 1000MHz (BAND EDGE)

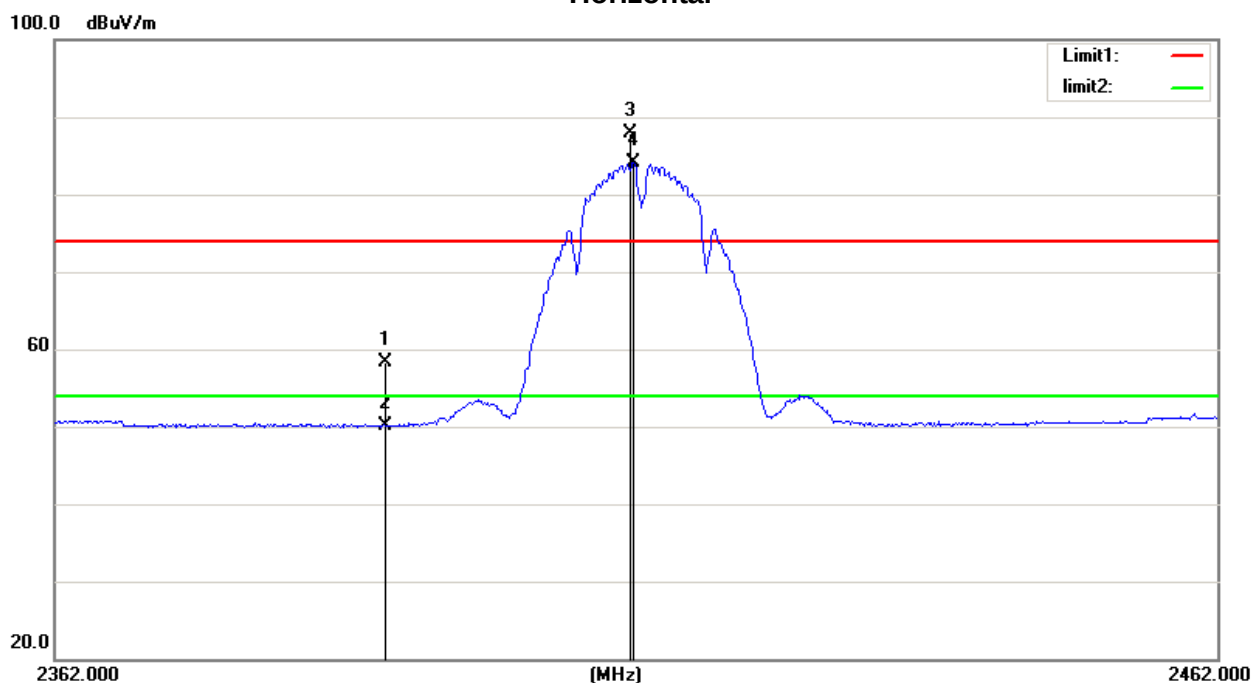
Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		2390.000	29.54	30.14	59.68	74.00	-14.32	peak	150	328
2		2390.000	17.82	30.14	47.96	54.00	-6.04	AVG	150	328
3	*	2411.300	54.40	30.17	84.57	54.00	30.57	AVG	150	328 No Limit
4	X	2413.000	58.23	30.18	88.41	74.00	14.41	peak	150	328 No Limit

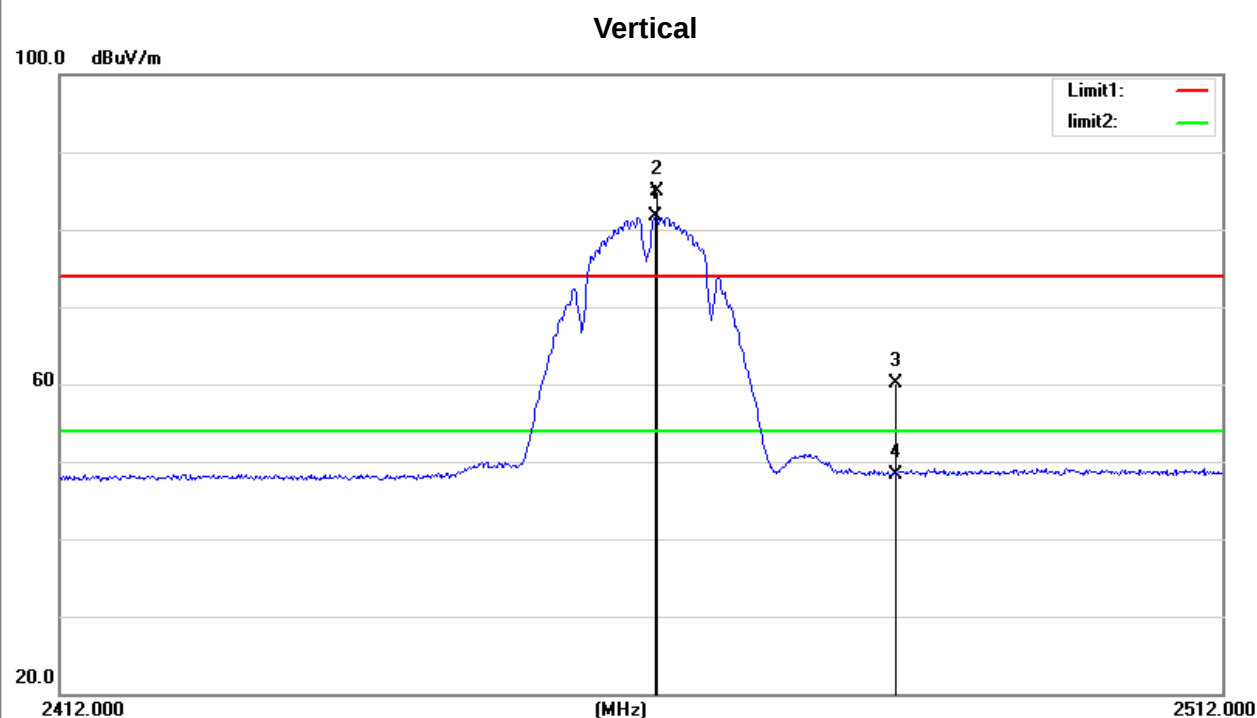
Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		2390.000	28.23	30.14	58.37	74.00	-15.63	peak	150	249	
2		2390.000	20.02	30.14	50.16	54.00	-3.84	AVG	150	249	
3	X	2411.000	57.75	30.17	87.92	74.00	13.92	peak	150	249	No Limit
4	*	2411.300	53.92	30.17	84.09	54.00	30.09	AVG	150	249	No Limit

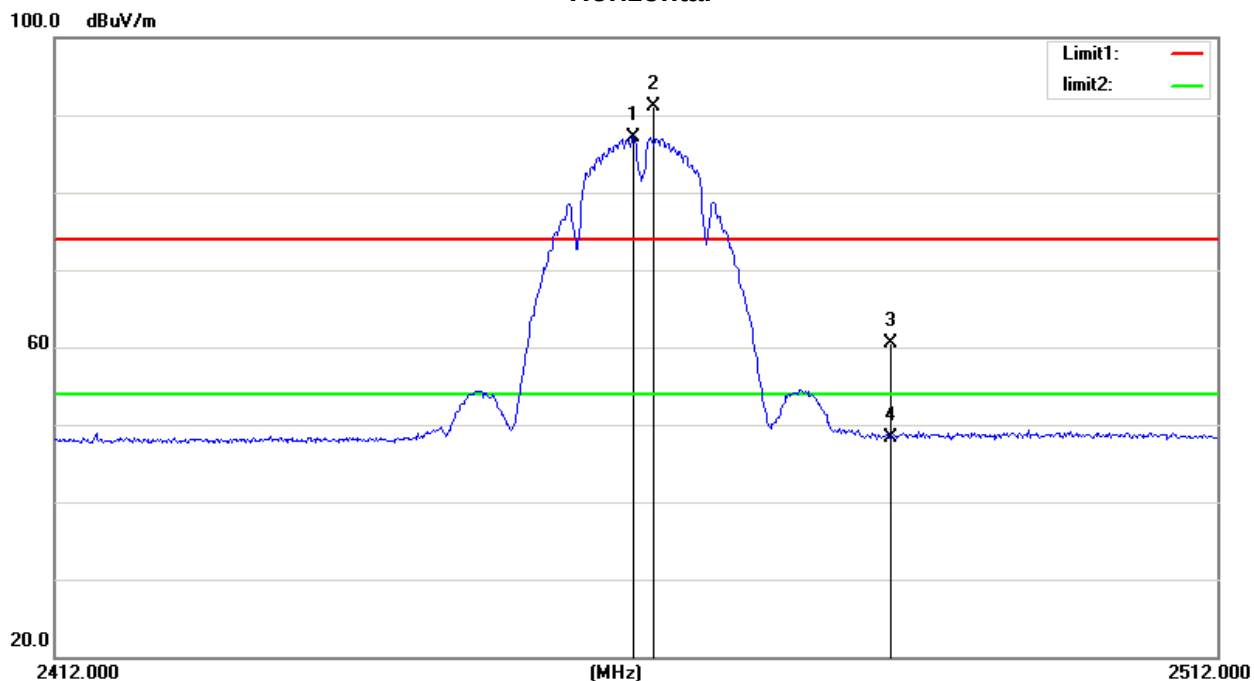
Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree
1	*	2462.700	51.19	30.44	81.63	54.00	27.63	AVG	150	137
2	X	2462.900	54.40	30.44	84.84	74.00	10.84	peak	150	137
3		2483.500	29.33	30.71	60.04	74.00	-13.96	peak	150	137
4		2483.500	17.63	30.71	48.34	54.00	-5.66	AVG	150	137

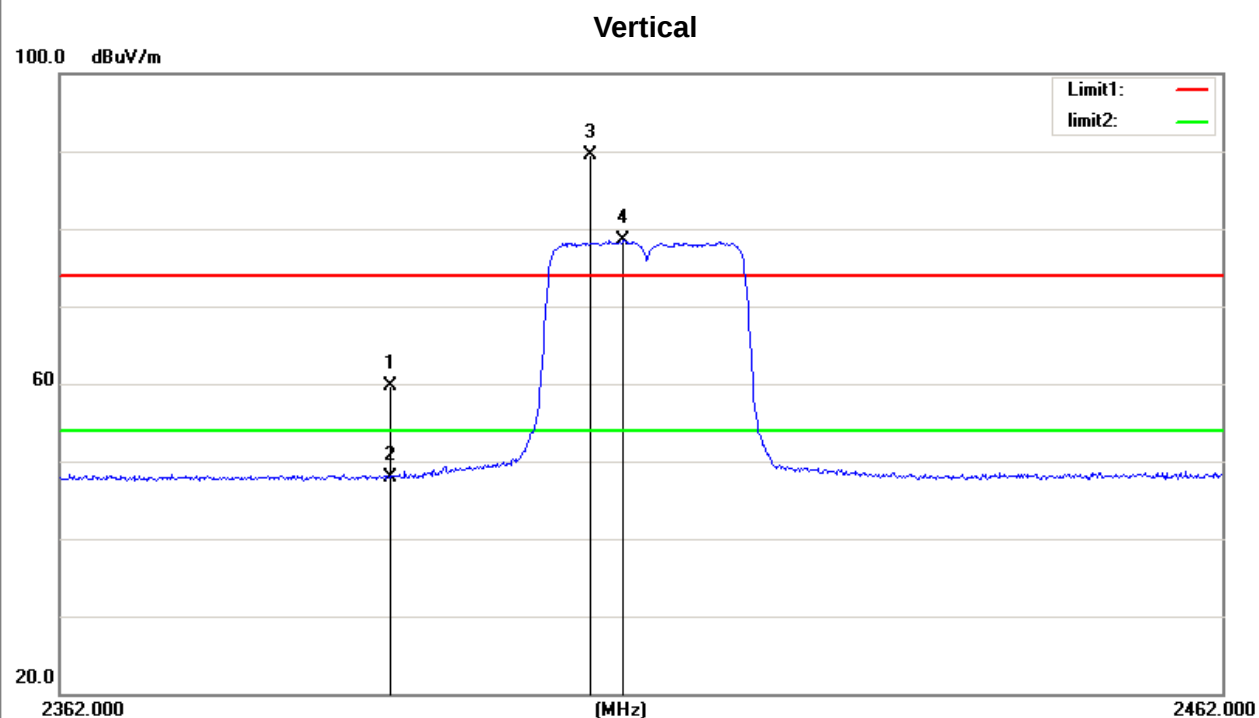
Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	*	2461.300	56.77	30.43	87.20	54.00	33.20	AVG	150	237	No Limit
2	X	2463.000	60.66	30.46	91.12	74.00	17.12	peak	150	237	No Limit
3		2483.500	29.77	30.71	60.48	74.00	-13.52	peak	150	237	
4		2483.500	17.62	30.71	48.33	54.00	-5.67	AVG	150	237	

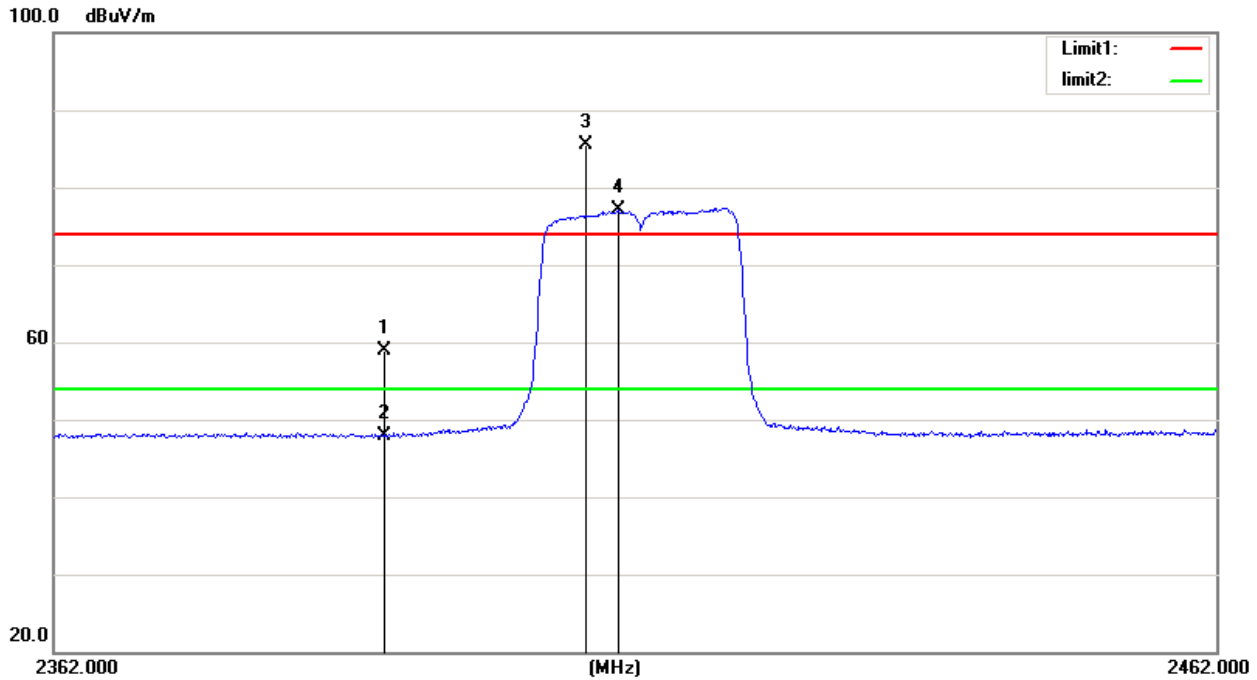
Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		2390.000	29.62	30.14	59.76	74.00	-14.24	peak	150	155
2		2390.000	17.77	30.14	47.91	54.00	-6.09	AVG	150	155
3	X	2407.100	59.44	30.16	89.60	74.00	15.60	peak	150	155 No Limit
4	*	2410.000	48.26	30.17	78.43	54.00	24.43	AVG	150	155 No Limit

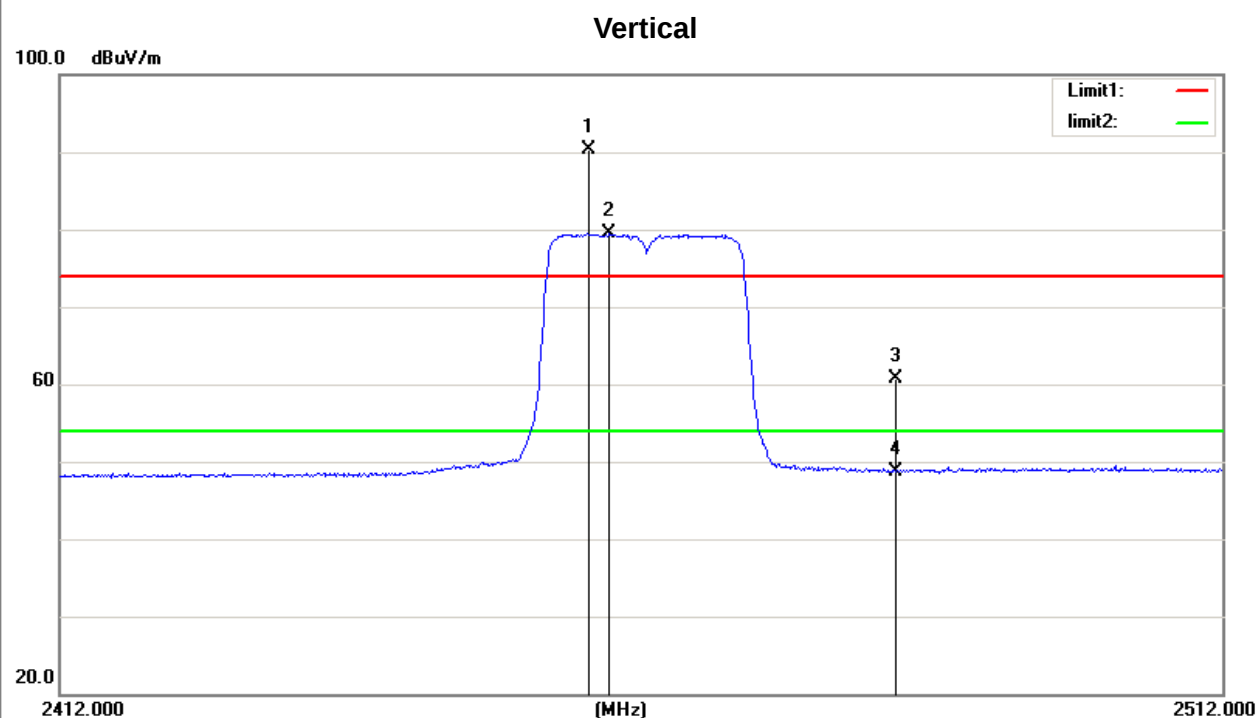
Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		2390.000	28.67	30.14	58.81	74.00	-15.19	peak	150	178	
2		2390.000	17.71	30.14	47.85	54.00	-6.15	AVG	150	178	
3	X	2407.300	55.31	30.16	85.47	74.00	11.47	peak	150	178	No Limit
4	*	2410.100	46.95	30.17	77.12	54.00	23.12	AVG	150	178	No Limit

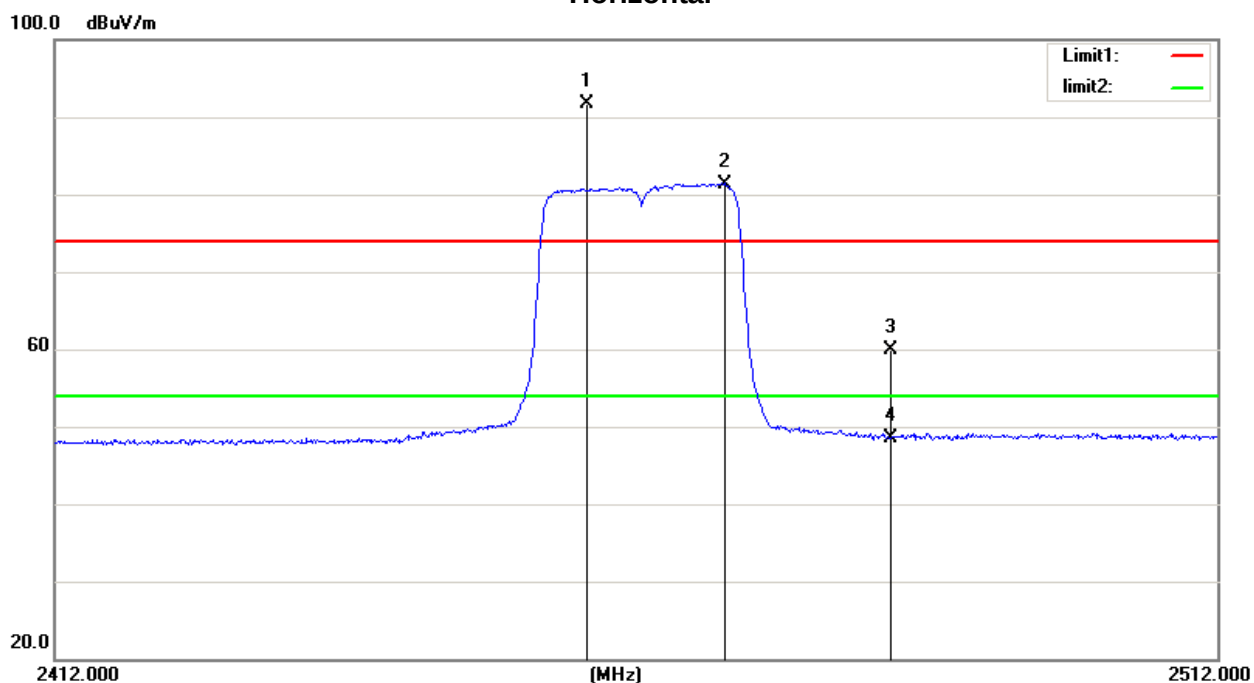
Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	X	2457.000	59.97	30.37	90.34	74.00	16.34	peak	150	141	No Limit
2	*	2458.800	49.02	30.40	79.42	54.00	25.42	AVG	150	141	No Limit
3		2483.500	29.99	30.71	60.70	74.00	-13.30	peak	150	141	
4		2483.500	18.03	30.71	48.74	54.00	-5.26	AVG	150	141	

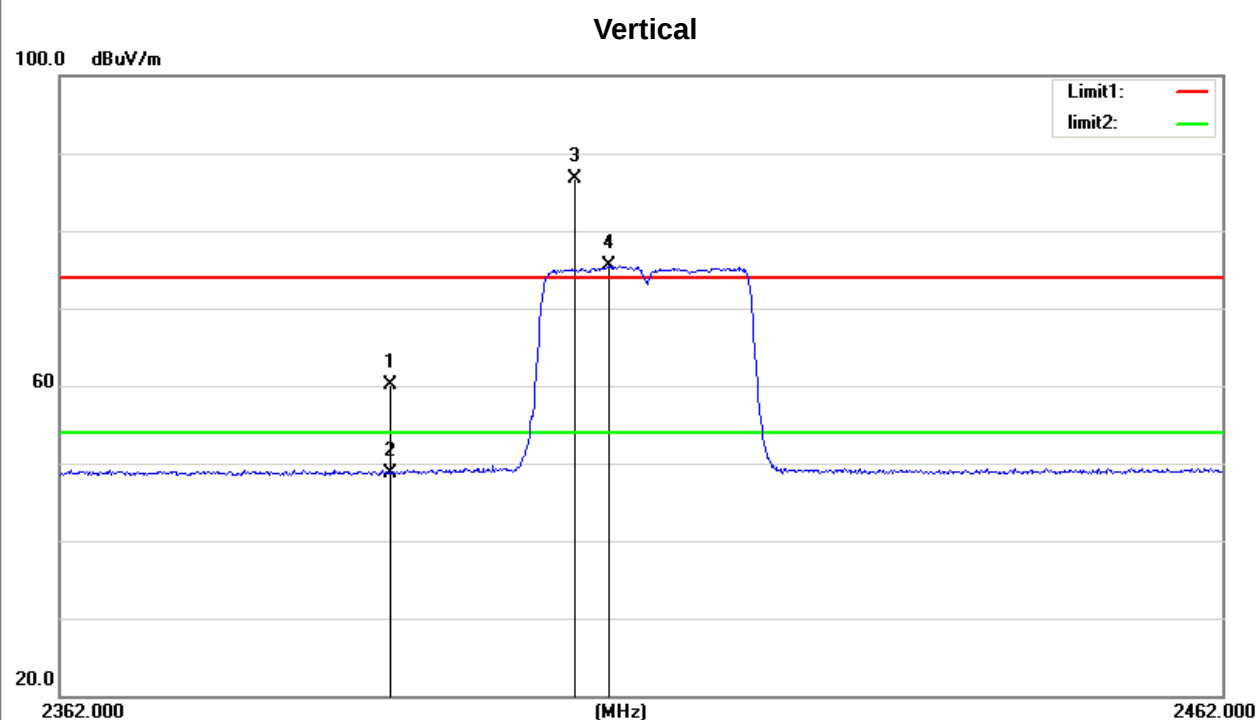
Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	X	2457.300	61.39	30.38	91.77	74.00	17.77	peak	150	173	No Limit
2	*	2469.200	50.87	30.53	81.40	54.00	27.40	AVG	150	173	No Limit
3		2483.500	29.12	30.71	59.83	74.00	-14.17	peak	150	173	
4		2483.500	17.85	30.71	48.56	54.00	-5.44	AVG	150	173	

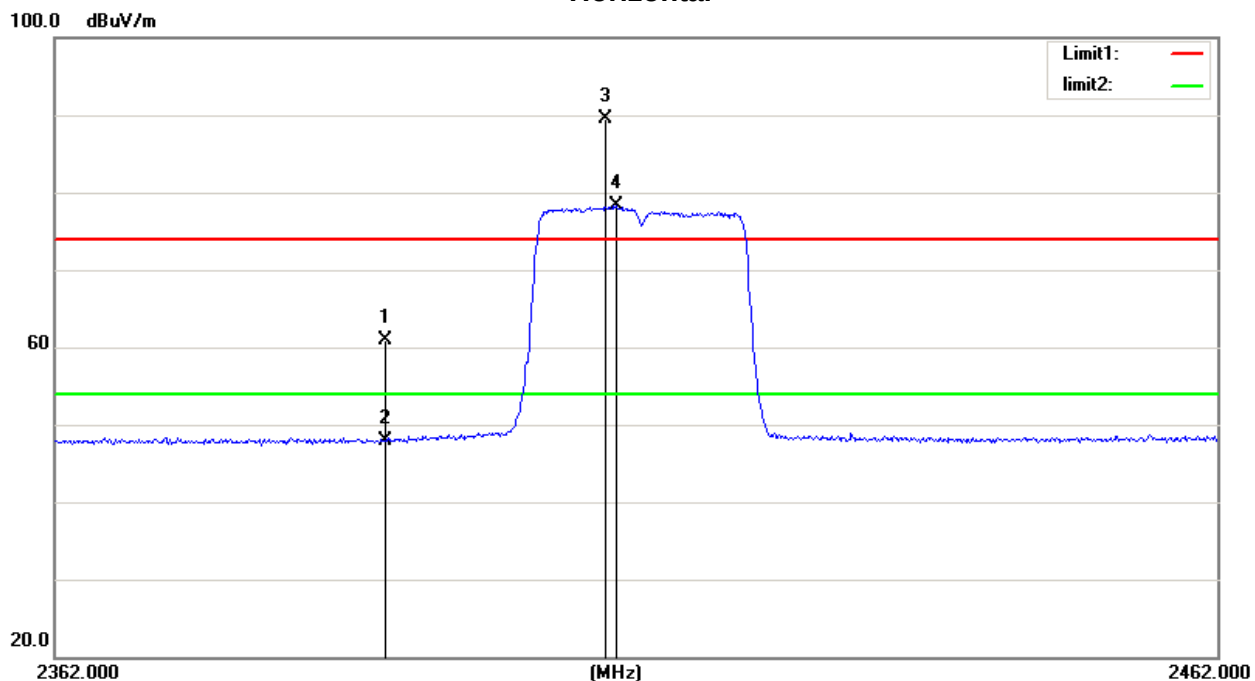
Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2412 MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		2390.000	30.02	30.14	60.16	74.00	-13.84	peak	150	152
2		2390.000	18.61	30.14	48.75	54.00	-5.25	AVG	150	152
3	X	2405.800	56.53	30.16	86.69	74.00	12.69	peak	150	152 No Limit
4	*	2408.800	45.24	30.17	75.41	54.00	21.41	AVG	150	152 No Limit

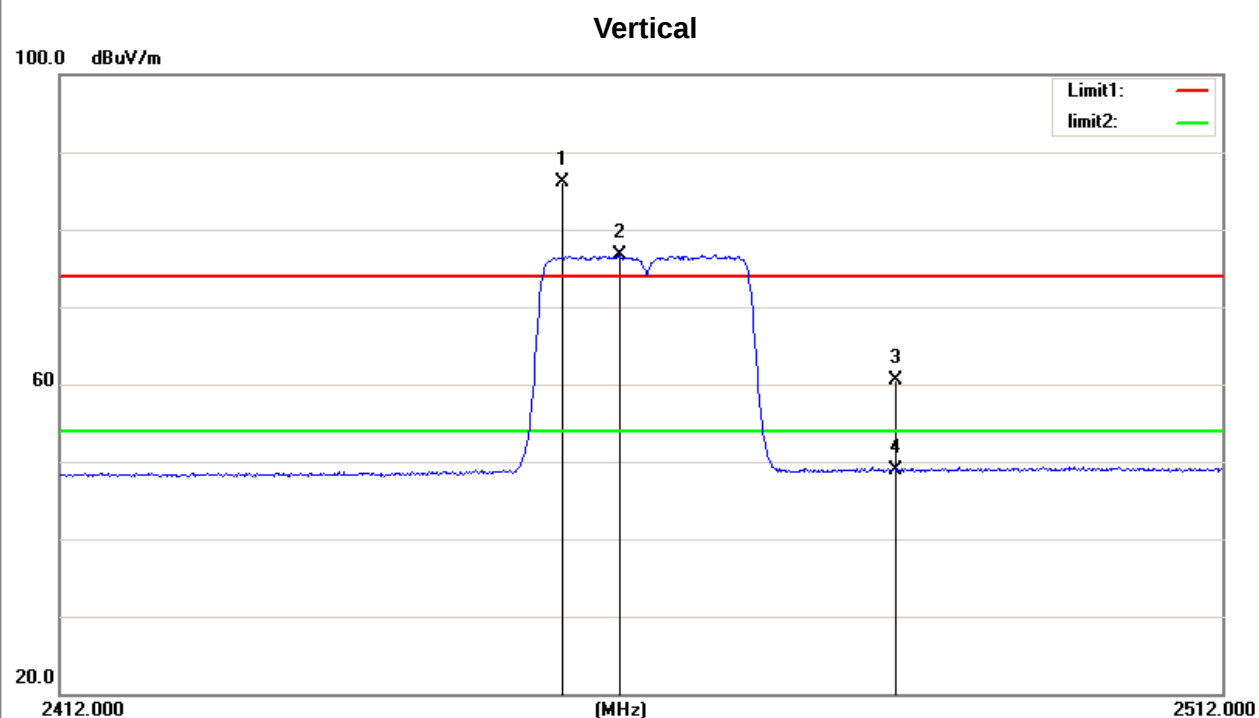
Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2412 MHz

Horizontal



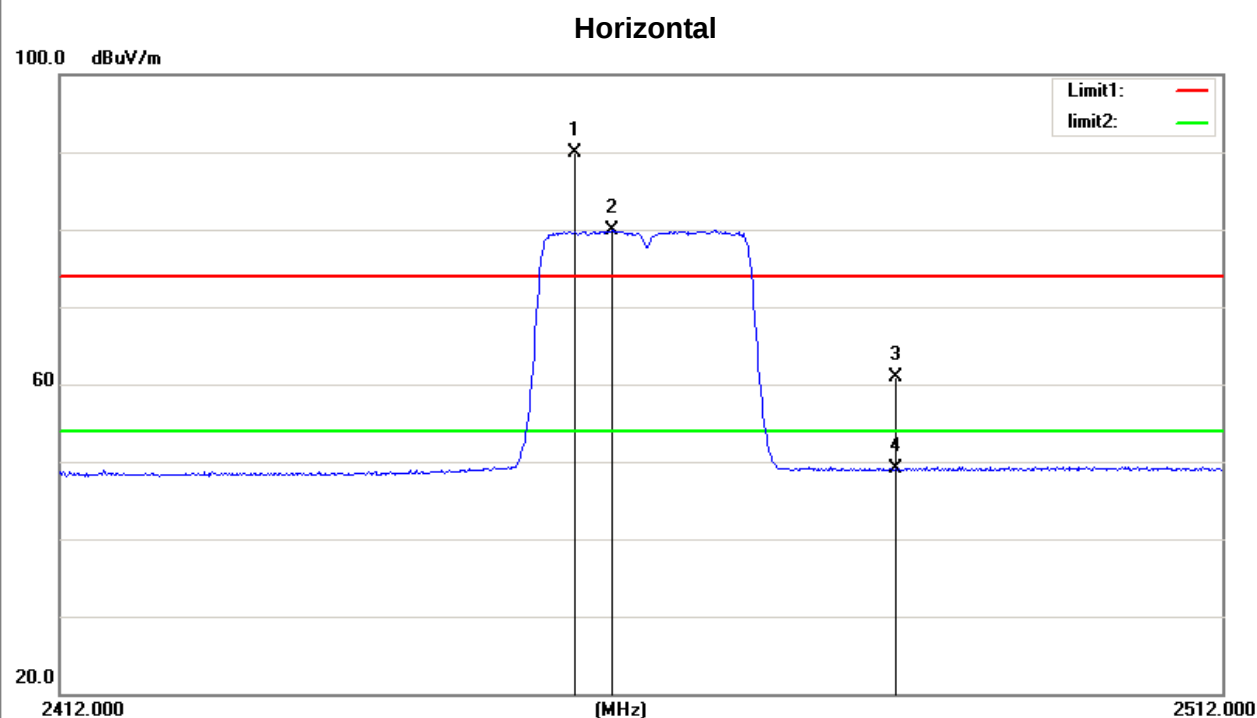
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree
1		2390.000	30.73	30.14	60.87	74.00	-13.13	peak	150	230
2		2390.000	17.70	30.14	47.84	54.00	-6.16	AVG	150	230
3	X	2408.900	59.38	30.17	89.55	74.00	15.55	peak	150	230
4	*	2409.800	48.12	30.17	78.29	54.00	24.29	AVG	150	230

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2462 MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	X	2454.700	55.80	30.35	86.15	74.00	12.15	peak	150	328	No Limit
2	*	2459.700	46.33	30.41	76.74	54.00	22.74	AVG	150	328	No Limit
3		2483.500	29.81	30.71	60.52	74.00	-13.48	peak	150	328	
4		2483.500	18.20	30.71	48.91	54.00	-5.09	AVG	150	328	

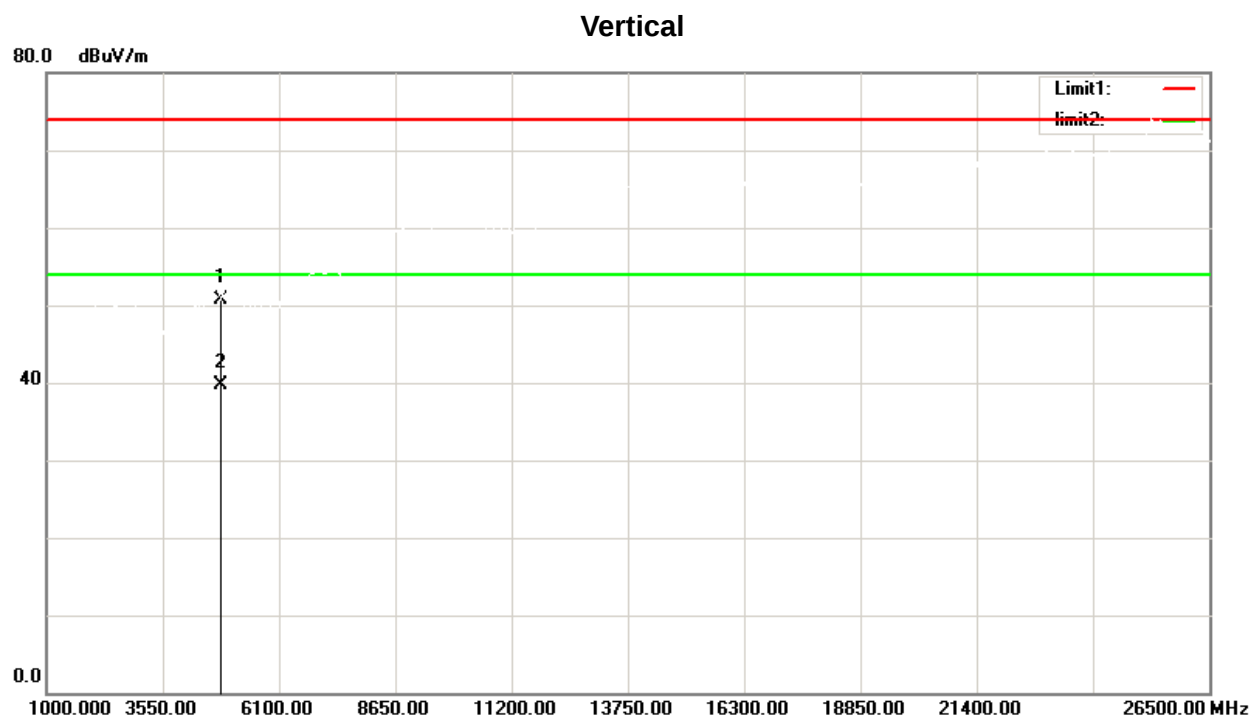
Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2462 MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	X	2455.700	59.64	30.36	90.00	74.00	16.00	peak	150	240	No Limit
2	*	2459.000	49.41	30.40	79.81	54.00	25.81	AVG	150	240	No Limit
3		2483.500	30.23	30.71	60.94	74.00	-13.06	peak	150	240	
4		2483.500	18.30	30.71	49.01	54.00	-4.99	AVG	150	240	

5.9 TEST RESULTS- ABOVE 1000MHz (HARMONIC)

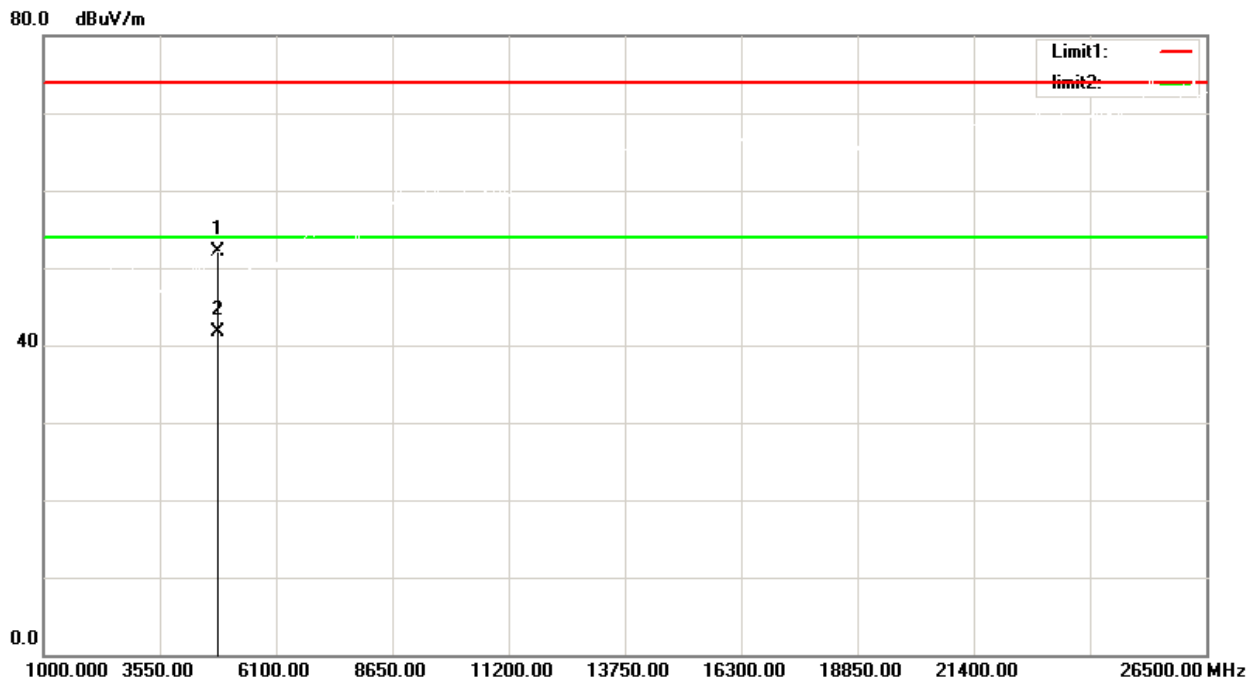
Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree
1		4824.000	52.75	-2.11	50.64	74.00	-23.36	peak	150	52
2	*	4824.000	41.78	-2.11	39.67	54.00	-14.33	AVG	150	52

Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz

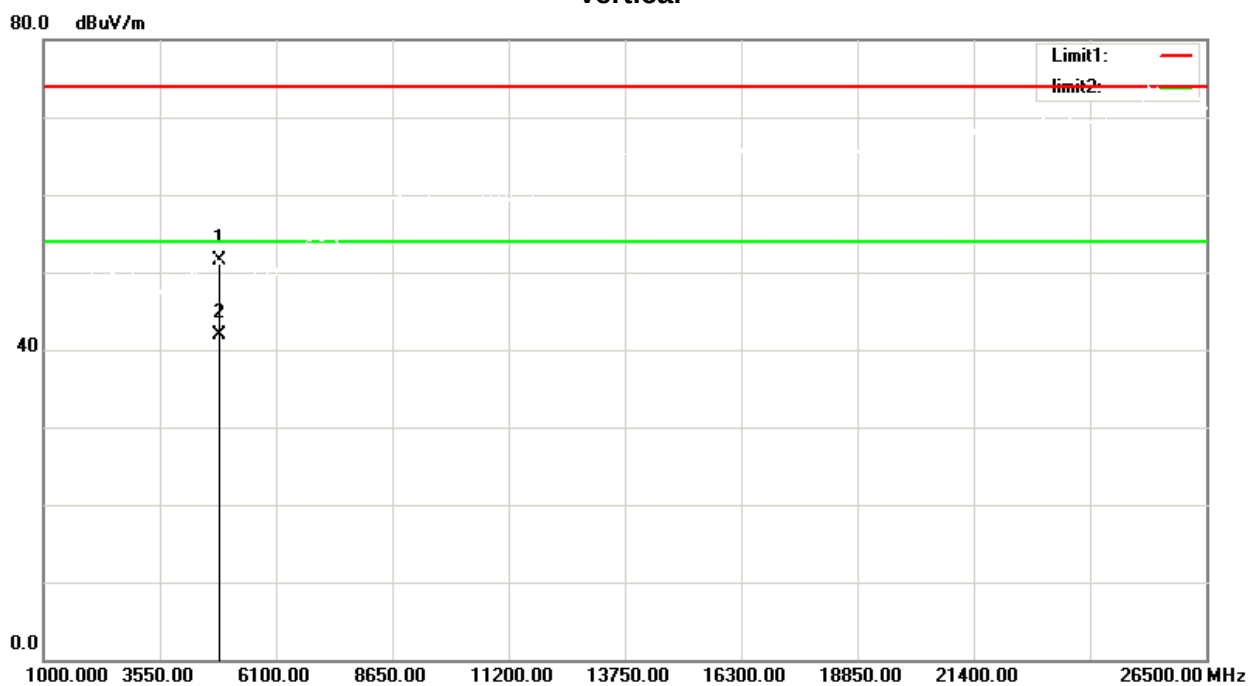
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree
1		4824.000	54.15	-2.11	52.04	74.00	-21.96	peak	150	28
2	*	4824.000	43.80	-2.11	41.69	54.00	-12.31	AVG	150	28

Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz

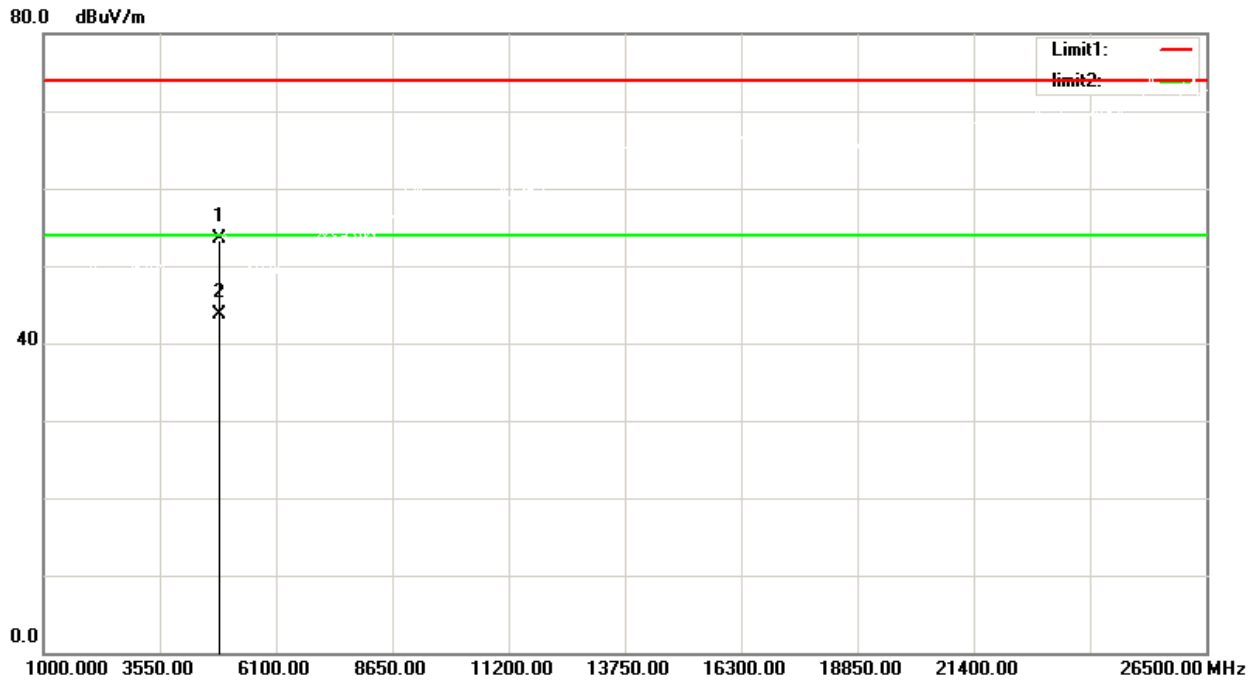
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree
1		4874.000	53.70	-2.22	51.48	74.00	-22.52	peak	150	78
2	*	4874.000	44.09	-2.22	41.87	54.00	-12.13	AVG	150	78

Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz

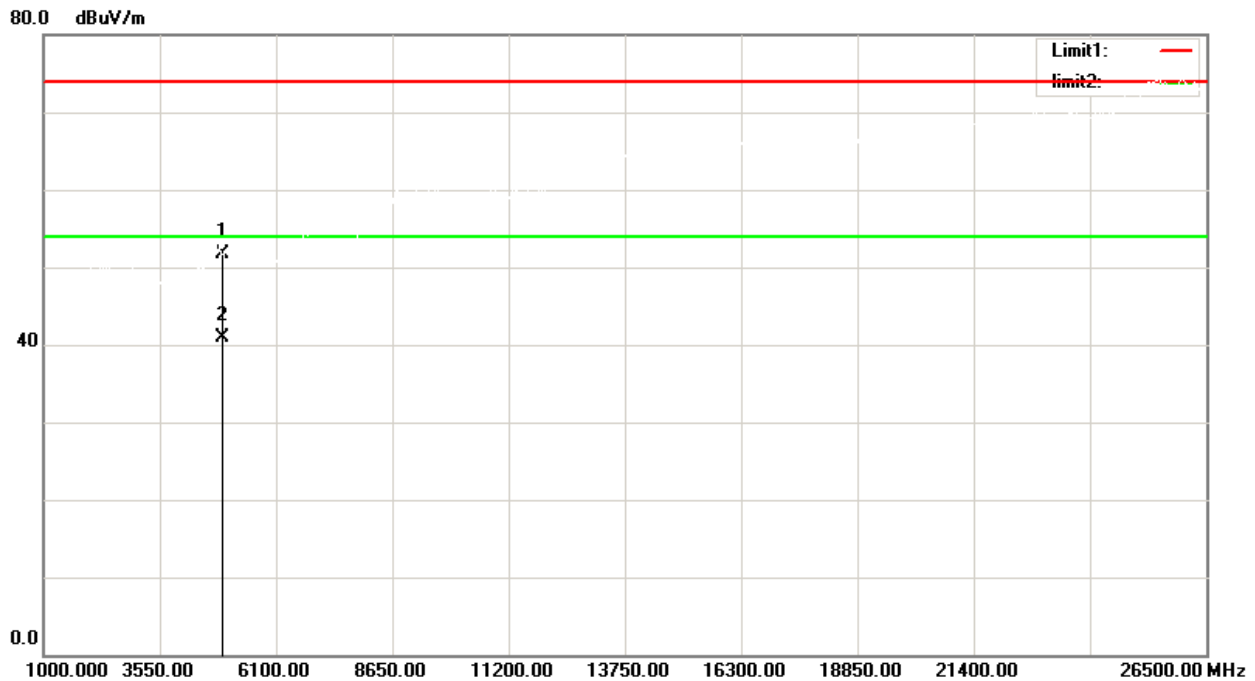
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		4874.000	55.78	-2.22	53.56	74.00	-20.44	peak	150	33
2	*	4874.000	45.87	-2.22	43.65	54.00	-10.35	AVG	150	33

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

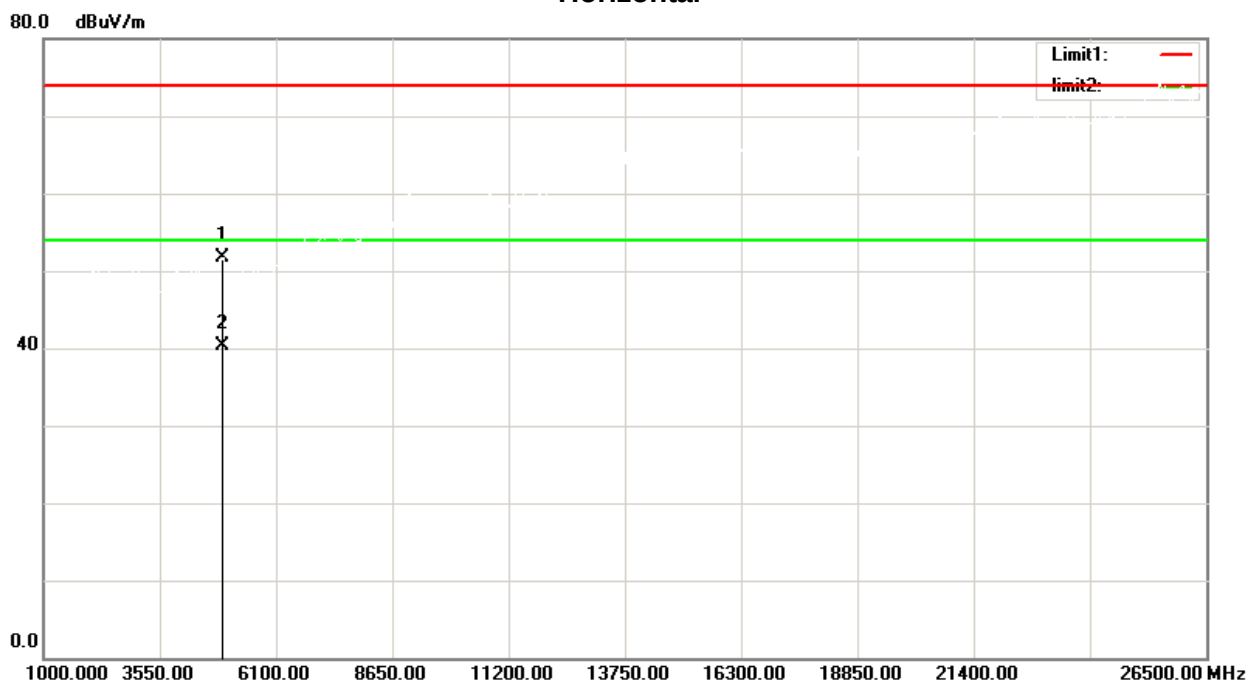
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		4924.000	53.66	-1.90	51.76	74.00	-22.24	peak	150	108
2	*	4924.000	42.89	-1.90	40.99	54.00	-13.01	AVG	150	108

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

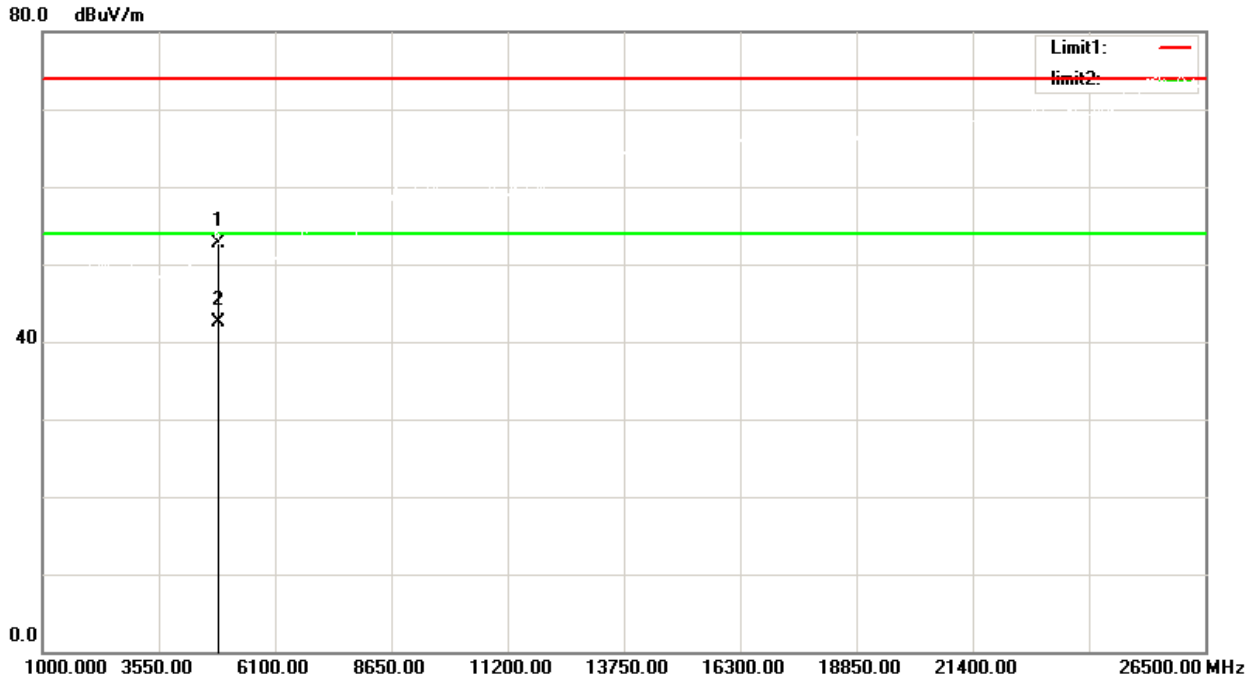
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree
1		4924.000	53.61	-1.90	51.71	74.00	-22.29	peak	150	44
2	*	4924.000	42.11	-1.90	40.21	54.00	-13.79	AVG	150	44

Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz

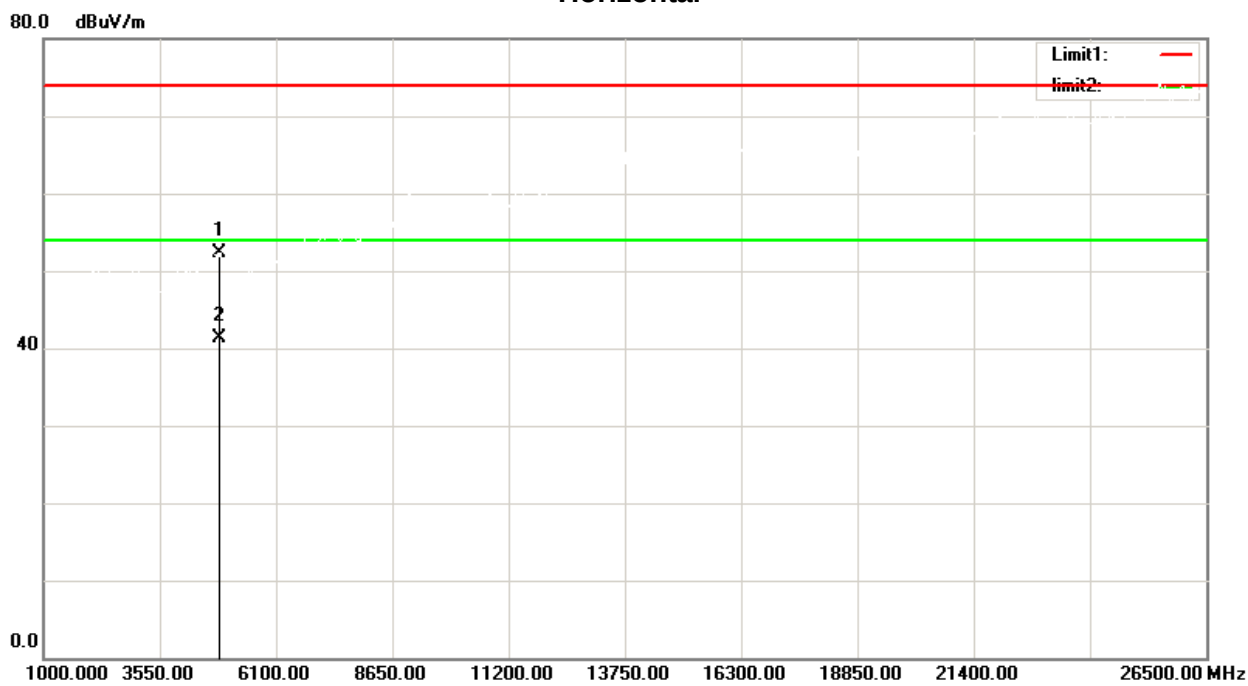
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree
1		4874.000	54.93	-2.22	52.71	74.00	-21.29	peak	150	23
2	*	4874.000	44.79	-2.22	42.57	54.00	-11.43	AVG	150	23

Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz

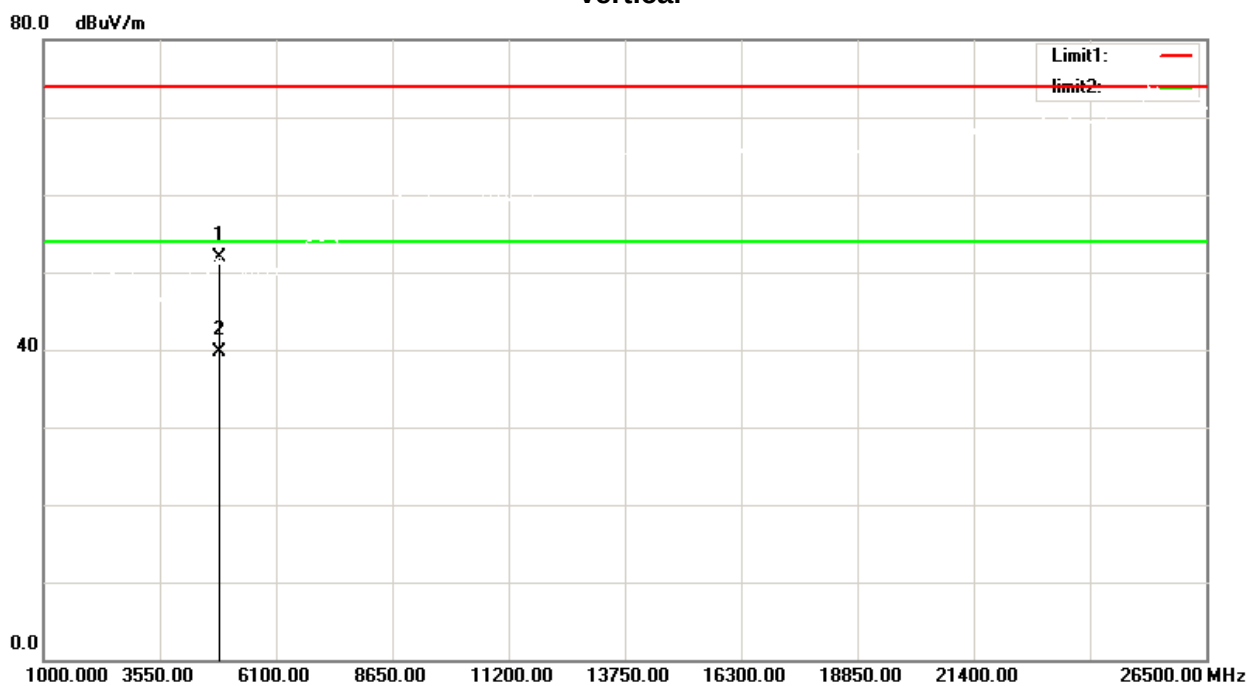
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		4874.000	54.55	-2.22	52.33	74.00	-21.67	peak	150	99
2	*	4874.000	43.47	-2.22	41.25	54.00	-12.75	AVG	150	99

Orthogonal Axis	X
Test Mode:	TX G Mode 2437 MHz

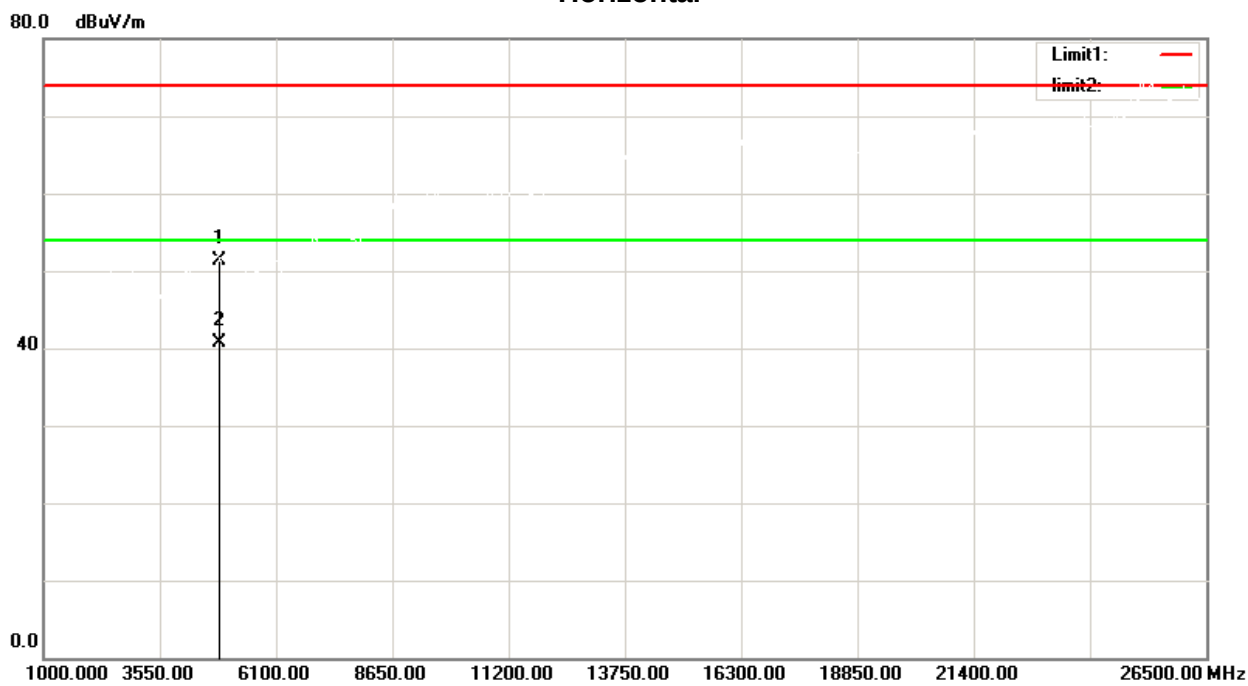
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		4874.000	54.20	-2.22	51.98	74.00	-22.02	peak	150	101
2	*	4874.000	41.90	-2.22	39.68	54.00	-14.32	AVG	150	101

Orthogonal Axis	X
Test Mode:	TX G Mode 2437 MHz

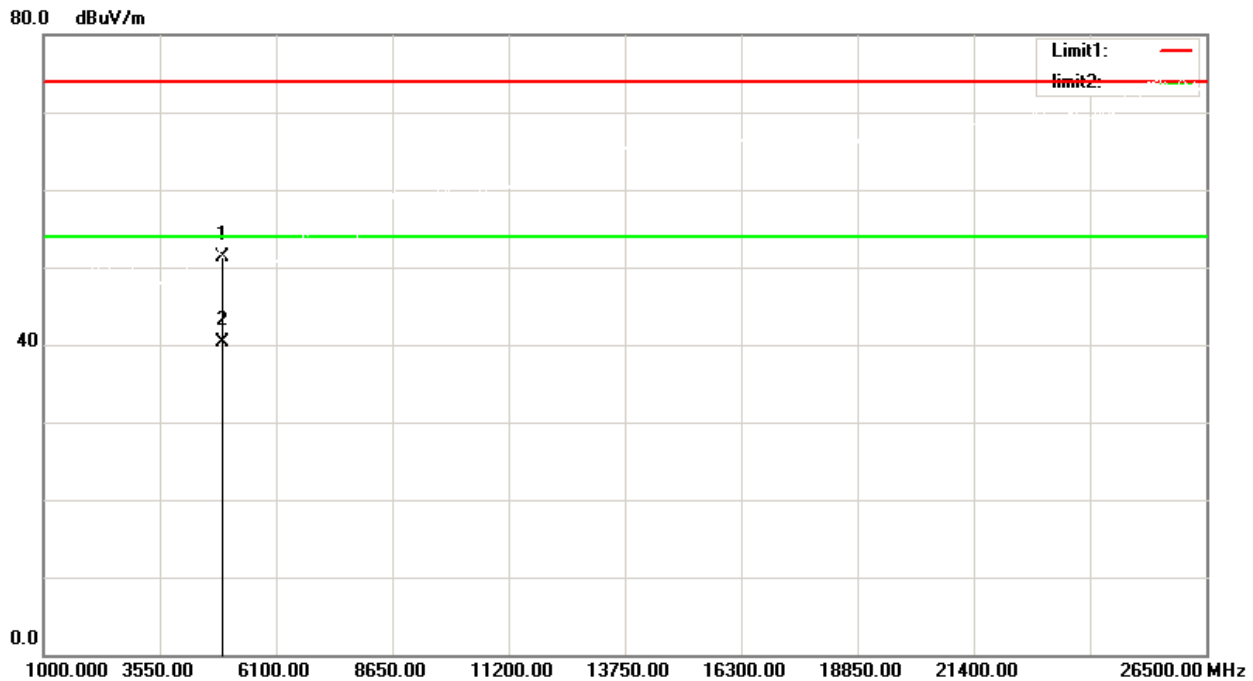
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree
1		4874.000	53.45	-2.22	51.23	74.00	-22.77	peak	150	58
2	*	4874.000	42.91	-2.22	40.69	54.00	-13.31	AVG	150	58

Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz

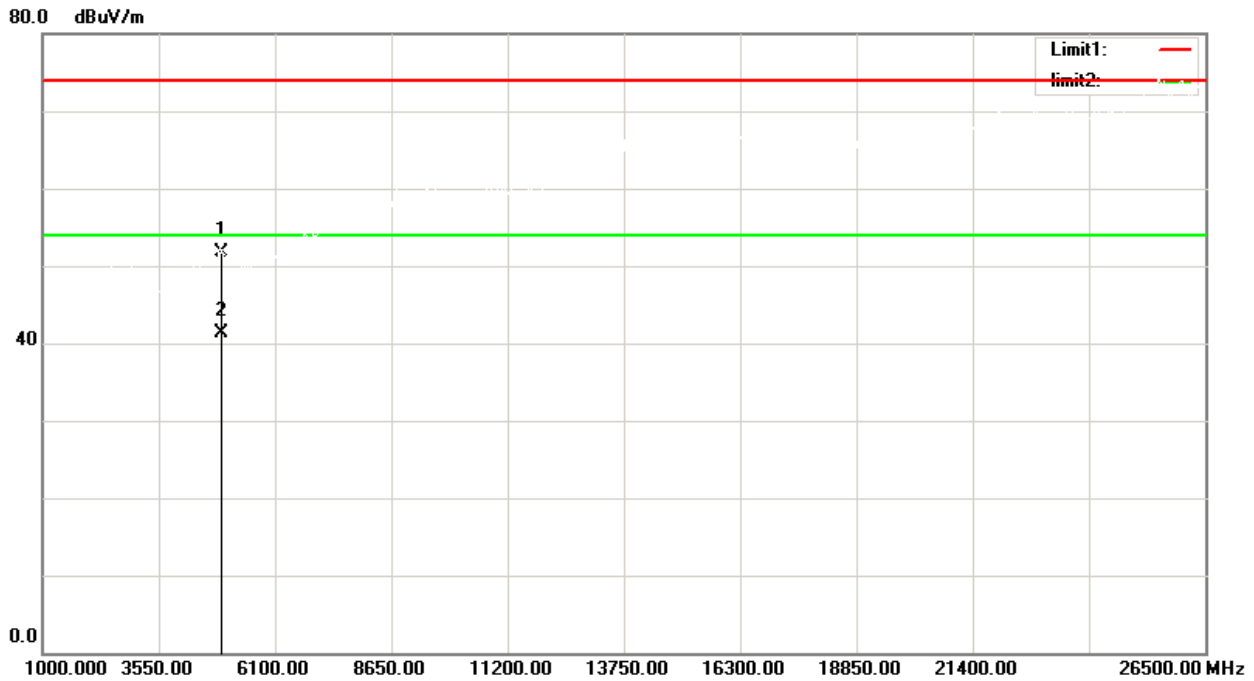
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		4924.000	53.16	-1.90	51.26	74.00	-22.74	peak	150	95
2	*	4924.000	42.23	-1.90	40.33	54.00	-13.67	AVG	150	95

Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz

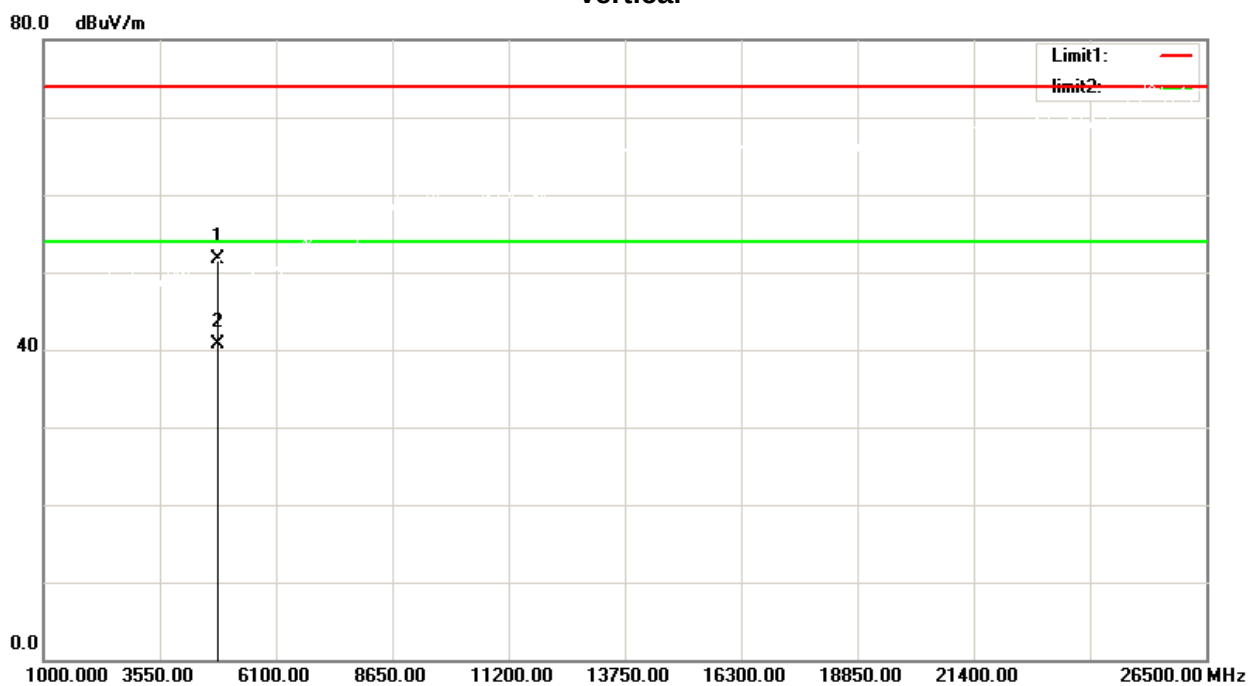
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		4924.000	53.61	-1.90	51.71	74.00	-22.29	peak	150	4
2	*	4924.000	43.26	-1.90	41.36	54.00	-12.64	AVG	150	4

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2412 MHz

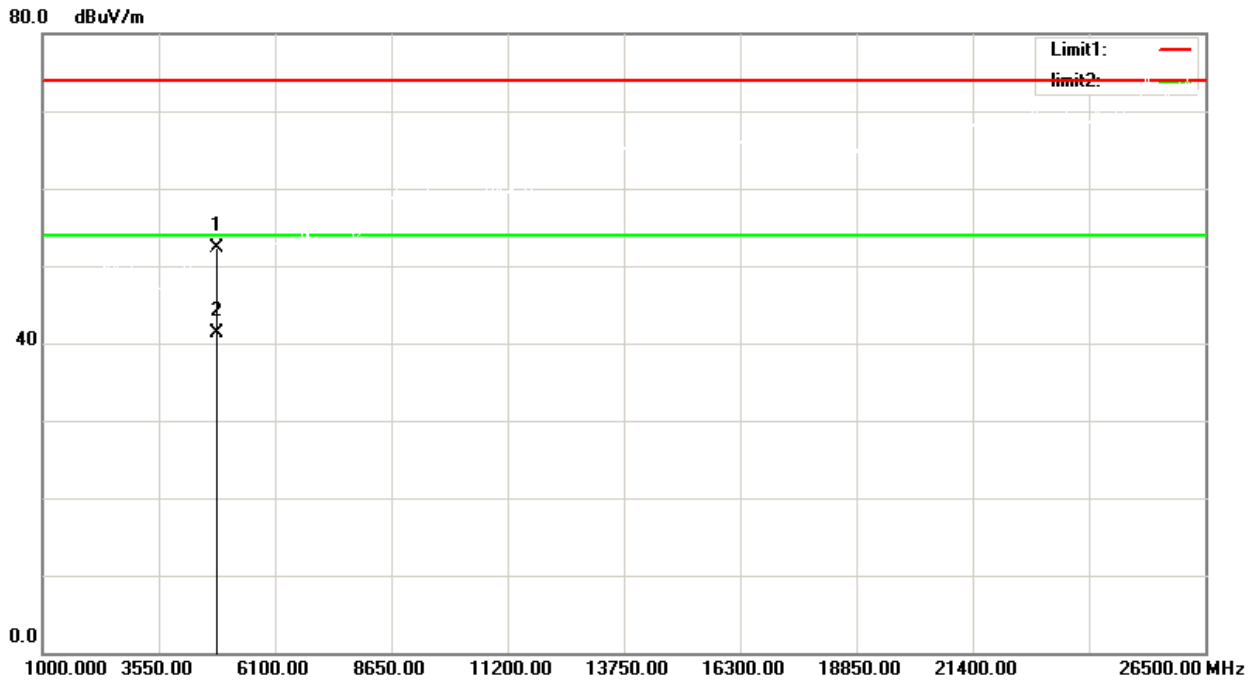
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		4824.000	53.73	-2.11	51.62	74.00	-22.38	peak	150	106
2	*	4824.000	42.72	-2.11	40.61	54.00	-13.39	AVG	150	106

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2412 MHz

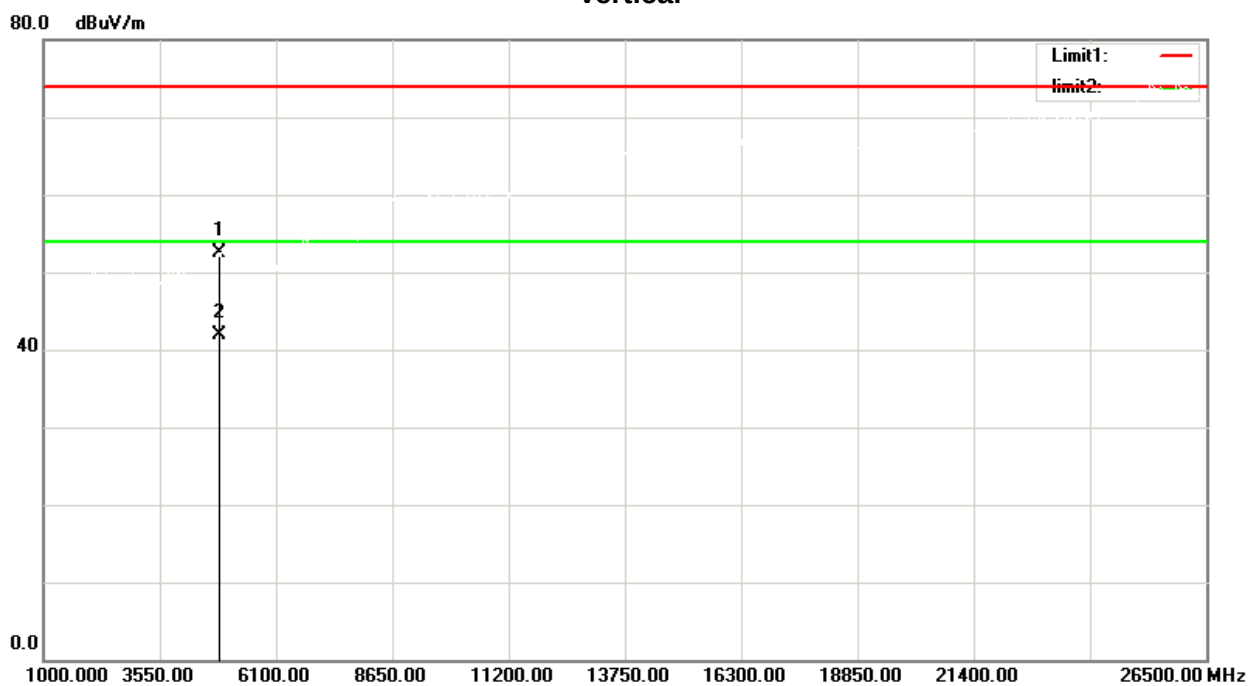
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		4824.000	54.50	-2.11	52.39	74.00	-21.61	peak	150	59
2	*	4824.000	43.44	-2.11	41.33	54.00	-12.67	AVG	150	59

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2437 MHz

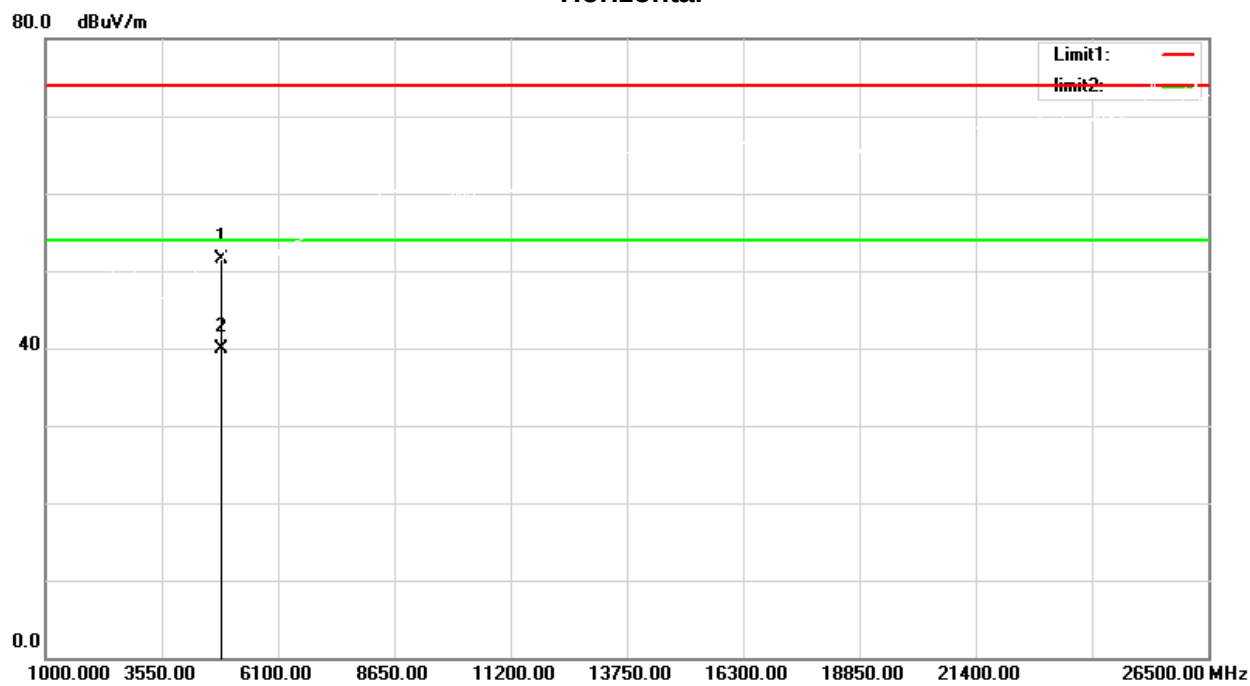
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree
1		4874.000	54.68	-2.22	52.46	74.00	-21.54	peak	150	11
2	*	4874.000	44.20	-2.22	41.98	54.00	-12.02	AVG	150	11

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2437 MHz

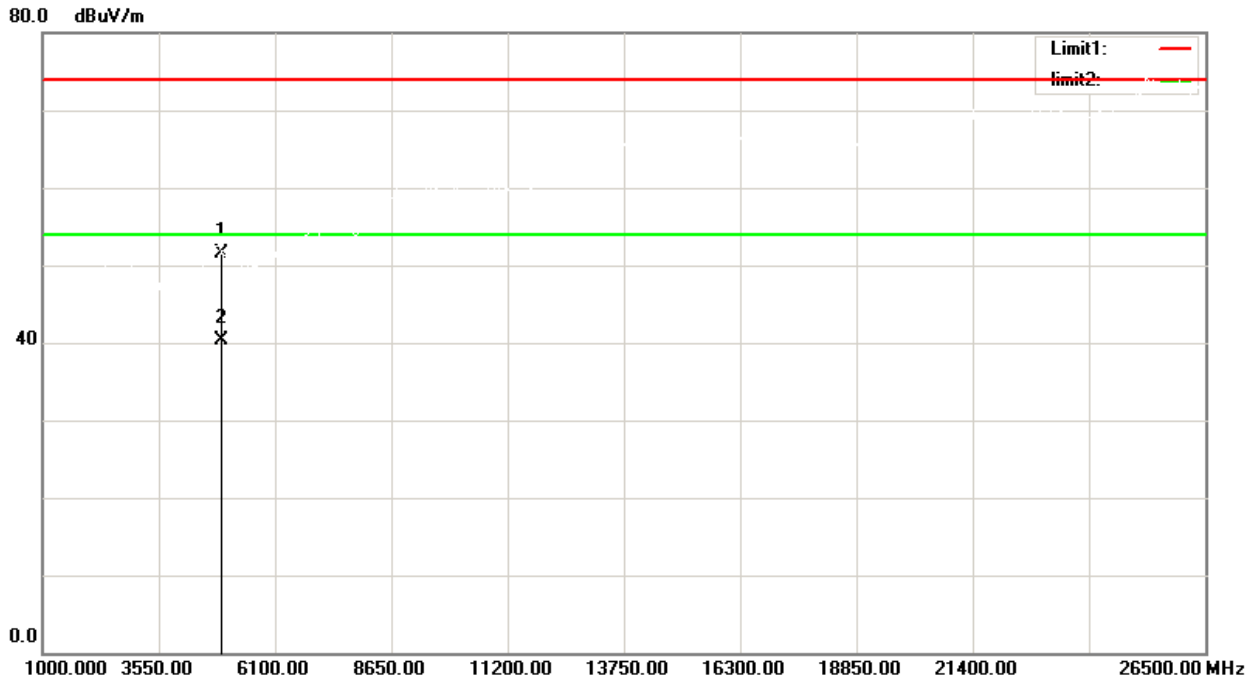
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		4874.000	53.78	-2.22	51.56	74.00	-22.44	peak	150	104
2	*	4874.000	42.06	-2.22	39.84	54.00	-14.16	AVG	150	104

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2462 MHz

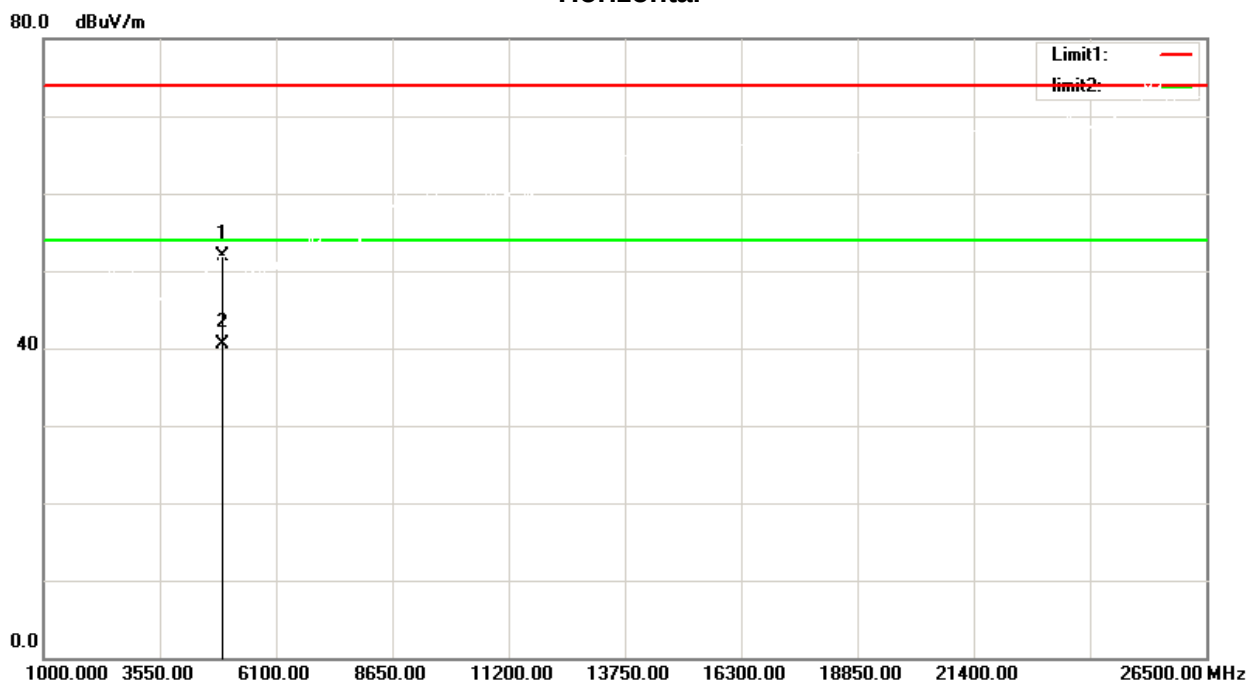
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree
1		4924.000	53.33	-1.90	51.43	74.00	-22.57	peak	150	36
2	*	4924.000	42.11	-1.90	40.21	54.00	-13.79	AVG	150	36

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2462 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree
1		4924.000	53.85	-1.90	51.95	74.00	-22.05	peak	150	6
2	*	4924.000	42.37	-1.90	40.47	54.00	-13.53	AVG	150	6

6. BANDWIDTH TEST

6.1 LIMIT

FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(a)(2)	6dB Bandwidth	Minimum 500 kHz
	99% Emission Bandwidth	-

6.2 TEST PROCEDURE AND SETTING

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- For 6dB Bandwidth Spectrum setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5ms.
For 99% OBW Spectrum Setting: RBW= 300KHz, VBW=1MHz, Sweep time = 2.5ms.
- The bandwidth was performed in accordance with method 11.8.1 of ANSI C63.10-2013.

6.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

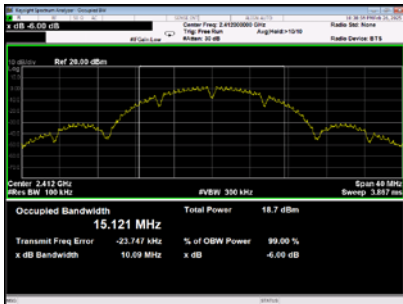
The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TESTRESULTS

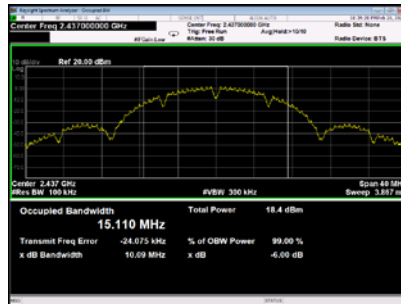
TX B Mode					
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
01	2412	10.090	15.127	500	PASS
06	2437	10.090	15.112	500	PASS
11	2462	10.090	15.104	500	PASS

6dB

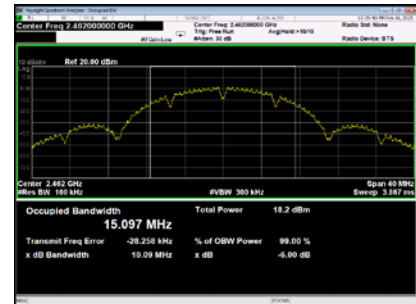
CH01



CH06

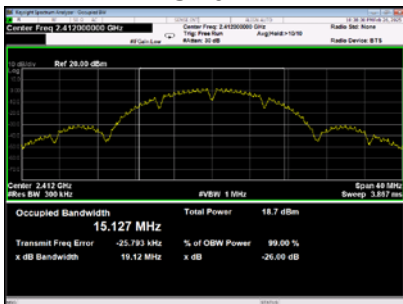


CH11

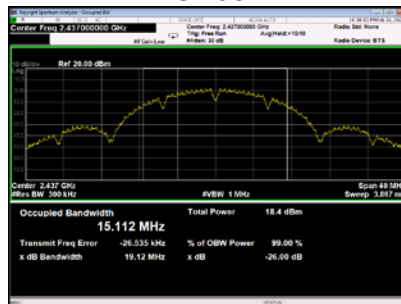


99%

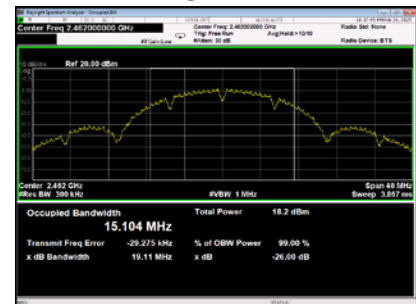
CH01



CH06



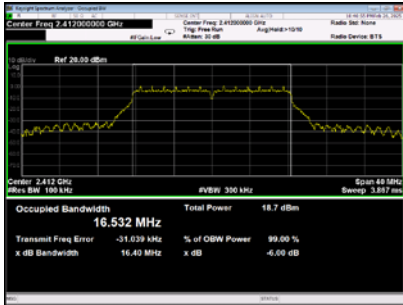
CH11



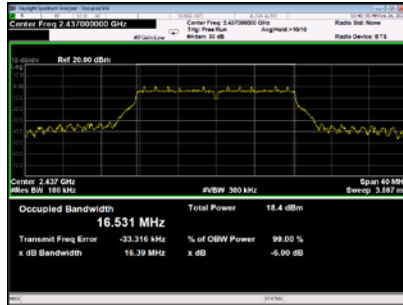
TX G Mode					
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
01	2412	16.400	16.528	500	PASS
06	2437	16.390	16.523	500	PASS
11	2462	16.400	16.525	500	PASS

6dB

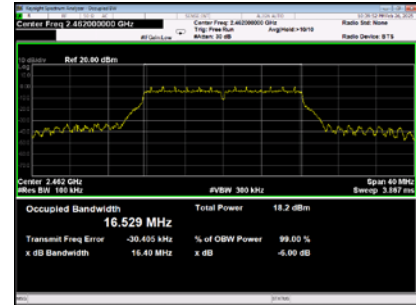
CH01



CH06

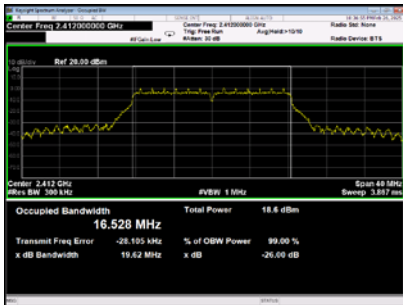


CH11

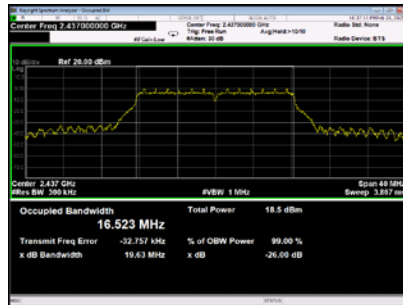


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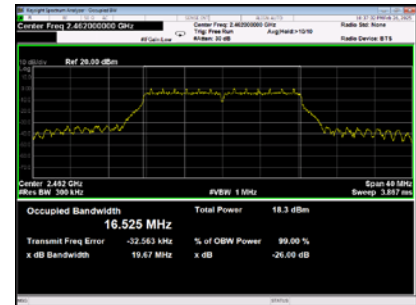
CH01



CH06



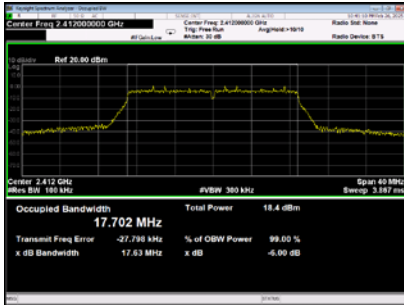
CH11



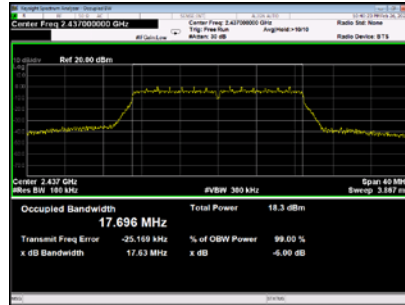
TX N (HT20) Mode					
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
01	2412	17.630	17.694	500	PASS
06	2437	17.630	17.701	500	PASS
11	2462	17.630	17.689	500	PASS

6dB

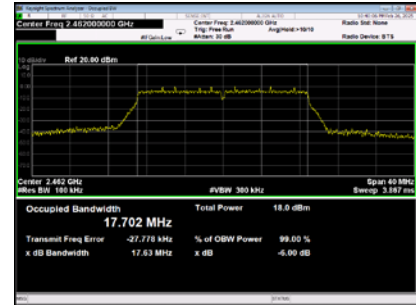
CH01



CH06

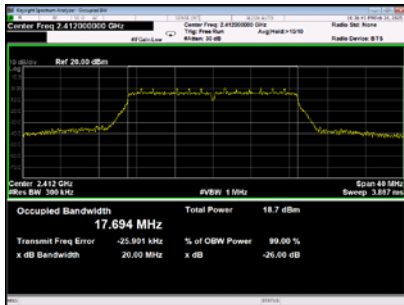


CH11

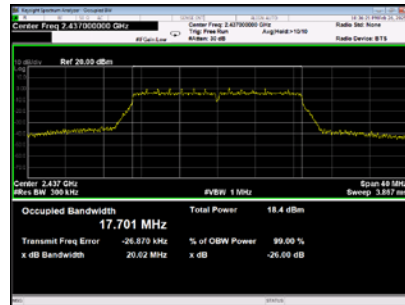


99%

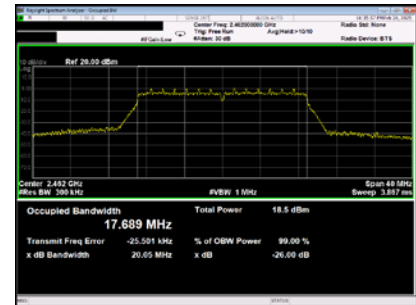
CH01



CH06



CH11



7. MAXIMUM OUTPUT POWER TEST

7.1 LIMIT

FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm

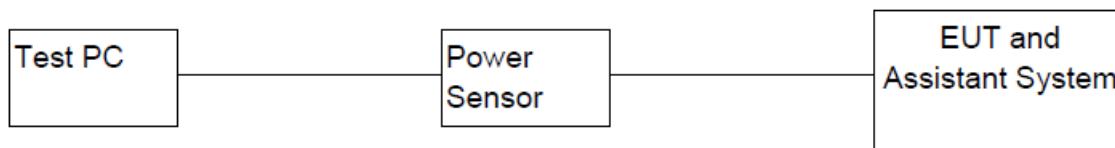
7.2 TEST PROCEDURE AND SETTING

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.1.3 of ANSI C63.10-2013.and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

7.3 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Power Sensor	KEYSIGHT	U2021XA	MY55240009	05/22/2025
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Micable	C10-01-01-1	100309	N/A
4	Test Software	KEYSIGHT	Power Panel	V3.11	N/A

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TESTRESULTS

TX B Mode				
Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Result
01	2412	7.220	0.005272	PASS
06	2437	7.310	0.005383	PASS
11	2462	7.140	0.005176	PASS
Limit	30dBm / 1W			

TX G Mode				
Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Result
01	2412	7.650	0.005821	PASS
06	2437	7.440	0.005546	PASS
11	2462	7.300	0.005370	PASS
Limit	30dBm / 1W			

TX N (HT20)				
Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Result
01	2412	7.870	0.006124	PASS
06	2437	7.670	0.005848	PASS
11	2462	7.420	0.005521	PASS
Limit	30dBm / 1W			

8. CONDUCTED SPURIOUS EMISSIONS

8.1 LIMIT

For FCC

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 Output Power limits. If the transmitter complies with the Output 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 Section 15.209(a) is not required.

For ISSED

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

8.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = Auto.

8.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

8.4 TEST SETUP



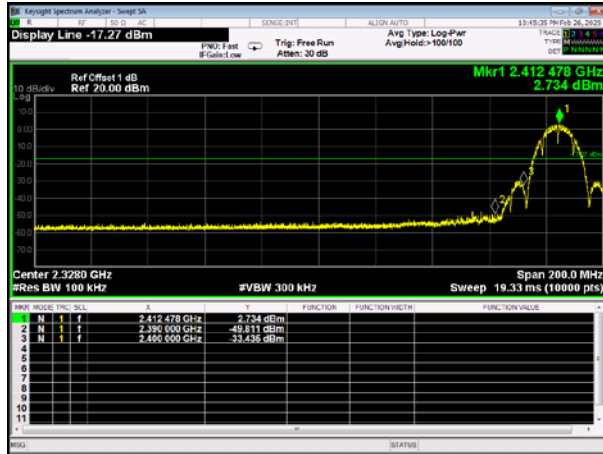
8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

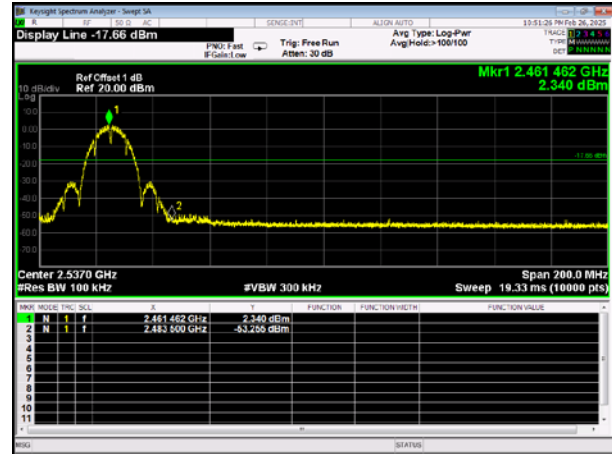
8.6 TESTRESULTS

TX B Mode

Bandedge-CH01

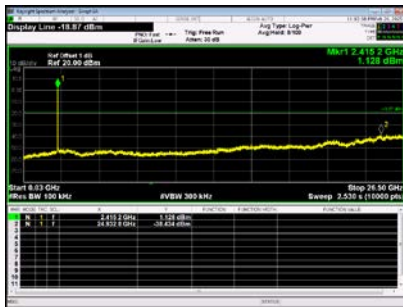


Bandedge-CH11

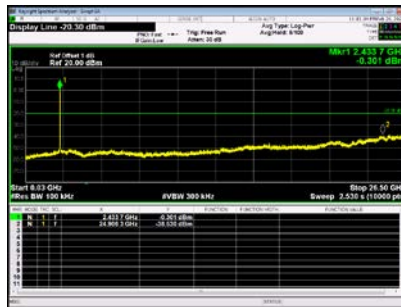


10th Harmonic of the fundamental frequency

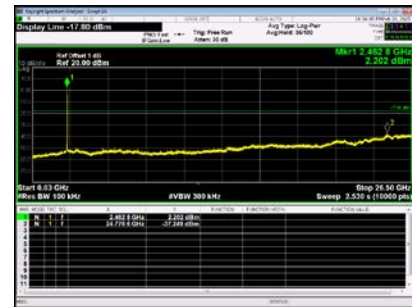
CH01



CH06

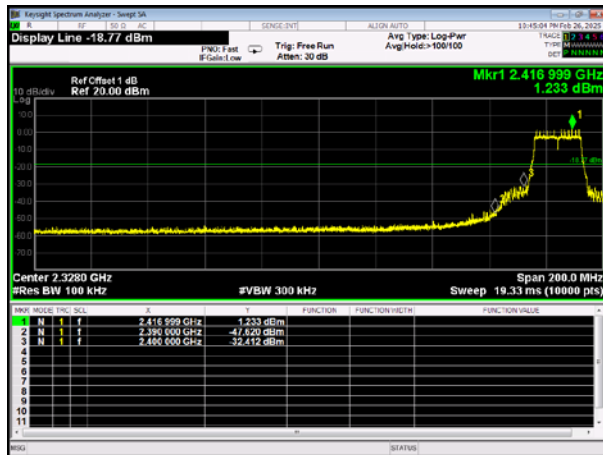


CH11

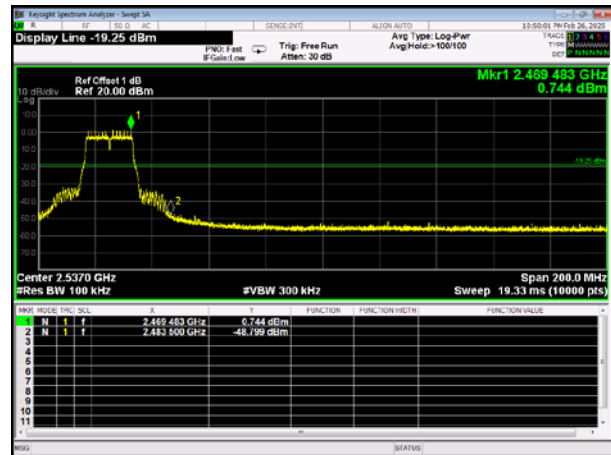


TX G Mode

Bandedge-CH01



Bandedge-CH11

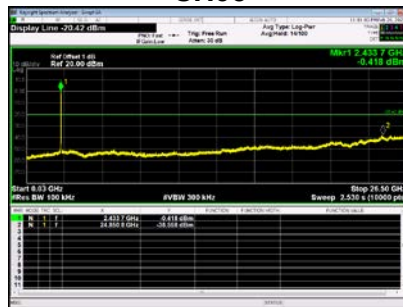


10th Harmonic of the fundamental frequency

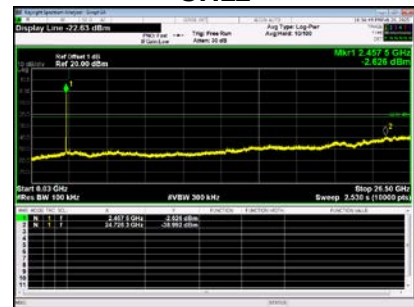
CH01



CH06

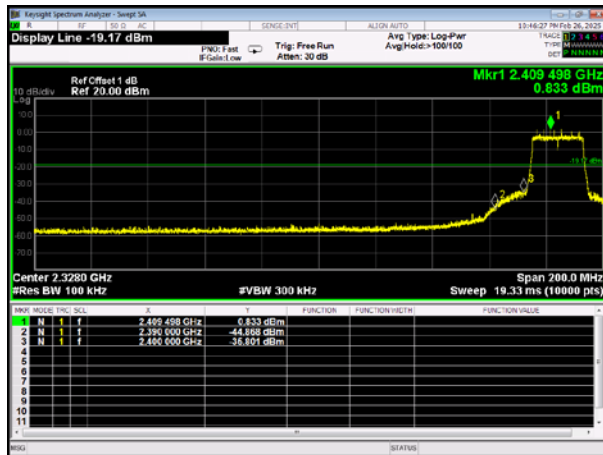


CH11

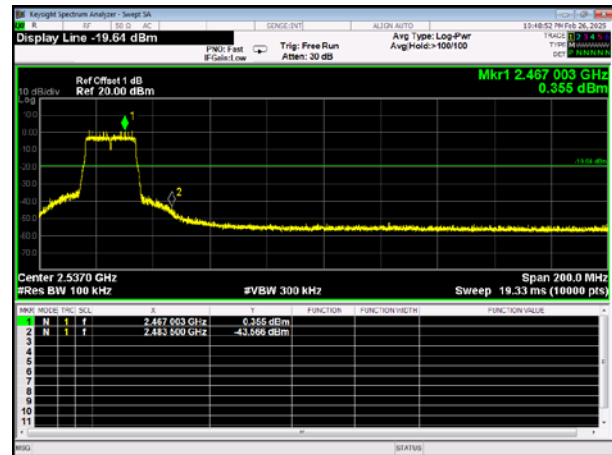


TX N (HT20) Mode

Bandedge-CH01

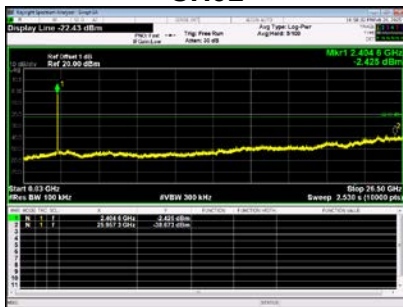


Bandedge-CH11

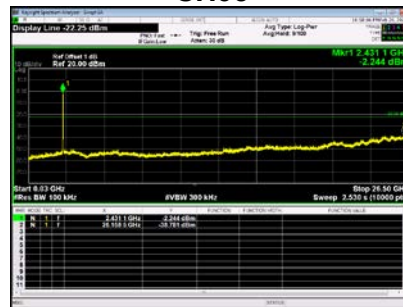


10th Harmonic of the fundamental frequency

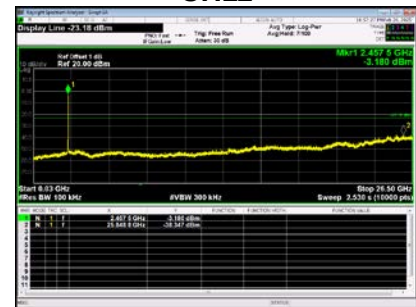
CH01



CH06



CH11



9. POWER SPECTRAL DENSITY TEST

9.1 LIMIT

FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

9.2 TEST PROCEDURE AND SETTING

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW=3 kHz, VBW=10 kHz, Sweep time = Auto.
- The Power Spectral Density was performed in accordance with method11.10.2 of ANSI C63.10-2013.

9.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

9.4 TEST SETUP



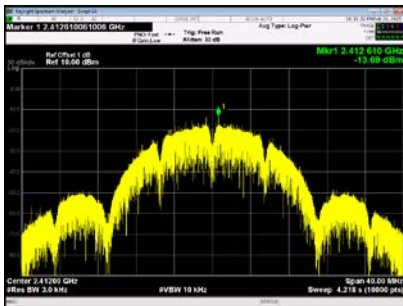
9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

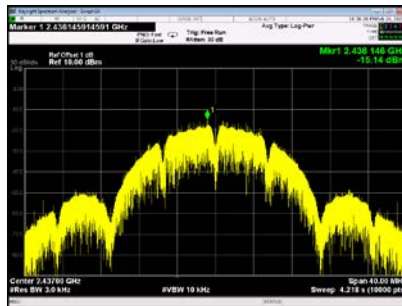
9.6 TESTRESULTS

TX B Mode				
Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit: <dBm/3KHz	Result
01	2412	-13.69	8	PASS
06	2437	-15.14	8	PASS
11	2462	-14.67	8	PASS

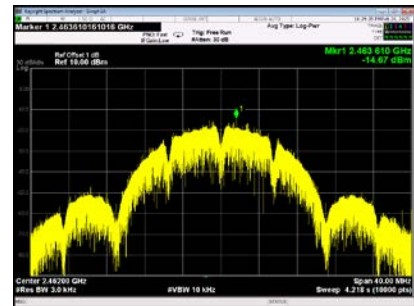
CH01



CH06

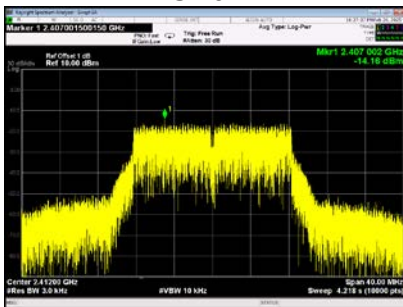


CH11

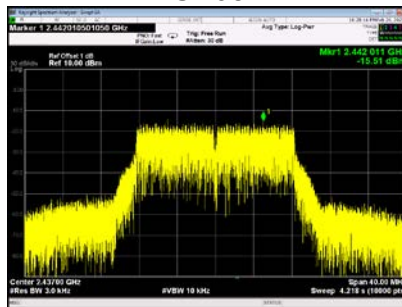


TX G Mode				
Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit: <dBm/3KHz	Result
01	2412	-14.16	8	PASS
06	2437	-15.51	8	PASS
11	2462	-14.69	8	PASS

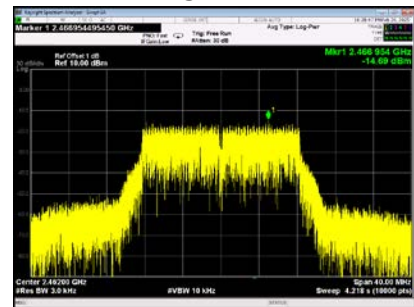
CH01



CH06

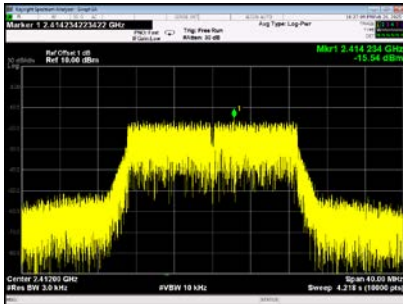


CH11

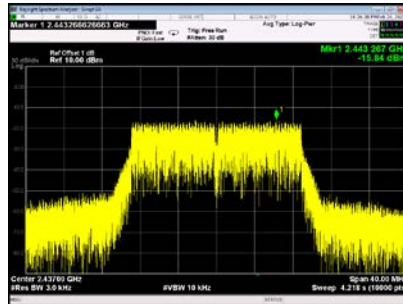


TX N (HT20) Mode				
Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit: <dBm/3KHz	Result
01	2412	-15.54	8	PASS
06	2437	-15.84	8	PASS
11	2462	-15.52	8	PASS

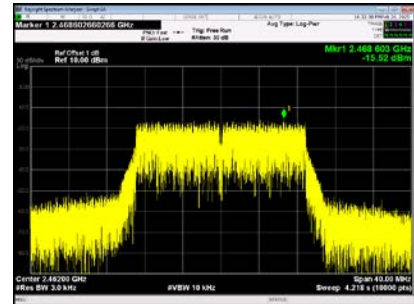
CH01



CH06



CH11



END OF TEST REPORT