

FCC & ISED Radio Test Report**FCC ID: XGB-CWBB0056****IC: 3879A-CWBB0056****The report concerns: Original Grant**

Report Reference No.....: 26EFSB08005 05071
Date Sample(s) Received.....: 2026-08-07
Date of Tested.....: From 2026-08-13 to 2026-10-21
Date of issue.....: 2026-10-21
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: Voyetra Turtle Beach, Inc.
Address: 15822 Bernardo Center Drive, Suite 105, San Diego,
CA 92127, USA

Equipment.....: Wireless Controller
Trade Mark: N/A
Model: CWBB0056
Ratings: I/P: 5VDC 1.5A (Provided by USB-C)
3.7VDC 2100mAh (Provided by the battery)

Test Engineer:

Jelena OuYang

Responsible Engineer :

Leo Chen

Authorized Signatory:

Smile Wang

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1 TEST REPORT DECLARE

Applicant for FCC	Voyetra Turtle Beach, Inc.
Address for FCC	15822 Bernardo Center Drive, Suite 105, San Diego, CA 92127, USA
Manufacturer	Voyetra Turtle Beach, Inc.
Address	15822 Bernardo Center Drive, Suite 105, San Diego, CA 92127, USA
Equipment	Wireless Controller
Model No.	CWBB0056
Trade Mark	N/A
Standard	FCC Part15, Subpart C (15.247) RSS-247 Issue 4 July 2025 RSS-Gen Issue 6 July 2026 ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 +Errata to C63.10a-2024

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
FCC	ISED			
15.207	RSS-Gen 7.4.2	AC Power Line Conducted Emissions	PASS	-----
15.247(d) 15.205(a) 15.209(a)	RSS-247 6.6 RSS-Gen 7.4.3 RSS-Gen 7.5	Radiated Emissions	PASS	-----
15.247(a)(2)	RSS-247 6.3.1 (a) RSS-Gen 5.1	Bandwidth	PASS	-----
15.247(b)(3)	RSS-247 6.3.2	Maximum Output Power	PASS	-----
15.247(d)	RSS-247 6.6	Conducted Spurious Emission	PASS	-----
15.247(e)	RSS-247 6.3.1 (b)	Power Spectral Density	PASS	-----
-	RSS-Gen 5.3	Frequency Stability	PASS	-----
15.203	RSS-Gen 5.2	Antenna Requirement	PASS	Note(2)

Note:

- (1) "N/A" denotes test is not applicable to this device.
- (2) For FCC, 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 (9kHz -30MHz)	4.38 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	2028-06-30
Innovation, Science and Economic Development Canada (ISED)	11033A CAB identifier: CN0083	2028-06-30
Federal Communications Commission (FCC)	171688 Designation No.: CN1235	2028-04-30

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Controller	
Radio Specification	BLE	
Brand Name	N/A	
Test Model	CWBB0056	
Series Model	N/A	
Model Difference(s)	N/A	
Hardware Version	V1.13.00	
Software Version	V1.24	
Power Source	Supplied from DC	
Power Rating	5VDC 1.5A (Provided by USB-C) 3.7VDC 2100mAh (Provided by the battery)	
RFIC.No:	HJM20066	
Operation Frequency	2402 MHz ~ 2480 MHz	
Modulation Technology	GFSK	
Bit Rate of Transmitter	1Mbps / 2Mbps	
Antenna Information	Antenna Type: PCB	Maximum Peak Gain: -1.08dBi (Provide by manufacturer)
Max. Output power	1Mbps: 3.079dBm (0.002032W) 2Mbps: 3.092dBm (0.002038W)	
Max. EIRP	1Mbps: 1.999dBm (0.001585W) 2Mbps: 2.012dBm (0.001589W)	

Note:

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

2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

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	BLE 1M TX ModeNOTE (1)
Mode 2	BLE 2M TX ModeNOTE (1)
Mode 3	BLE 1M TX Mode Channel 39

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 3	BLE 1M TX Mode Channel 39

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 3	BLE 1M TX Mode Channel 39

Radiated emissions test - Above 1GHz	
Final Test Mode	Description
Mode 1	BLE 1M TX ModeNOTE (1)
Mode 2	BLE 2M TX ModeNOTE (1)

Conducted test	
Final Test Mode	Description
Mode 1	BLE 1M TX ModeNOTE (1)
Mode 2	BLE 2M TX ModeNOTE (1)

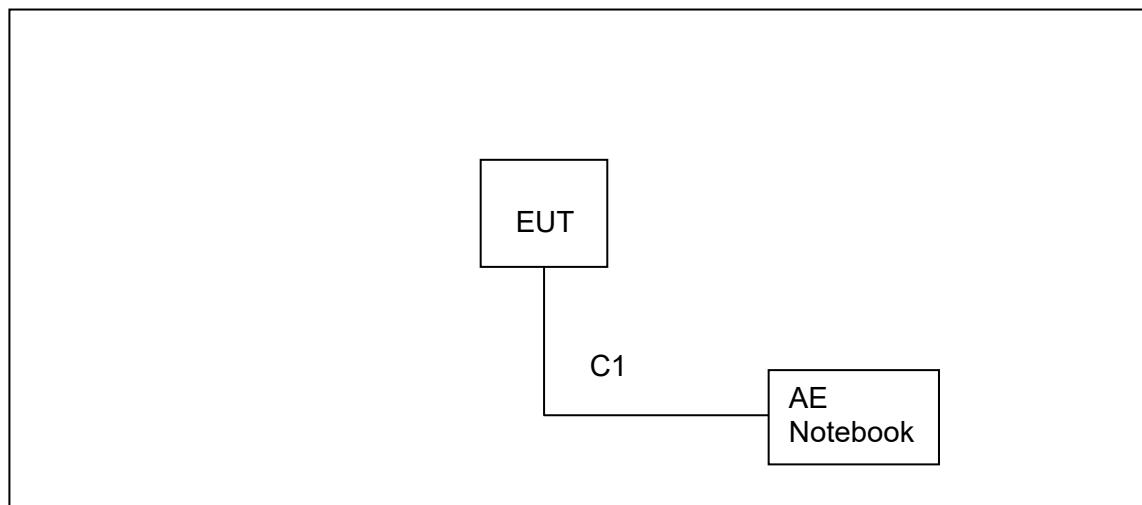
Note:

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

3.3 PARAMETERS OF TEST SOFTWARE

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of BT LE

Test Software	Telink BDT.exe		
Frequency (MHz)	2402	2440	2480
Parameters-1Mbps	4	4	4
Parameters-2Mbps	4	4	4

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**3.5 SUPPORT UNITS**

Item	Equipment	Brand	Model No.	Series No.
AE	Notebook	Lenovo	ThinkBook 14 G6+ IMH	MP2PJ7YN

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	24.6°C	58.5%	DC 5V (AC 120V/60Hz)
Radiated Emissions-9K-30MHz	24°C	50%	DC 5V
Radiated Emissions-30 MHz to 1GHz	23.4°C	62%	DC 5V
Radiated Emissions-Above 1000 MHz	23.4°C	62%	DC 5V
Bandwidth	25°C	54%	DC 5V
Maximum Output Power	25°C	54%	DC 5V
Conducted Spurious Emission	25°C	54%	DC 5V
Power Spectral Density	25°C	54%	DC 5V

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	66 to 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

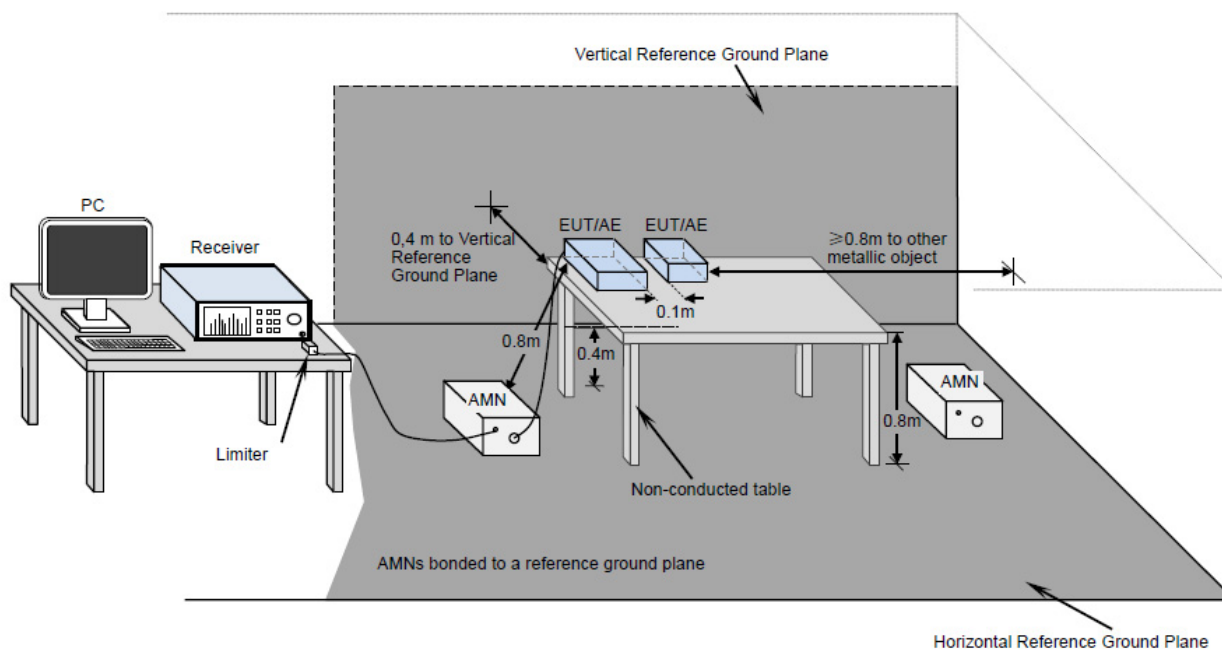
4.2 TEST PROCEDURE

- 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 groundplane 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-systemtechnik	MTS-IMP-136	261115-010-0024	11/12/2026
2	EMI Test Receiver	R&S	ESCI	101308	05/08/2027
3	LISN	Schwarzbeck	NNLK 8129 RC	8129-RC 05260	08/13/2027
4	LISN	Schwarzbeck	NSLK8127	8127432	05/08/2027
5	Cable	HP	11500A	N/A	08/13/2027
6	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

4.4 TEST SETUP

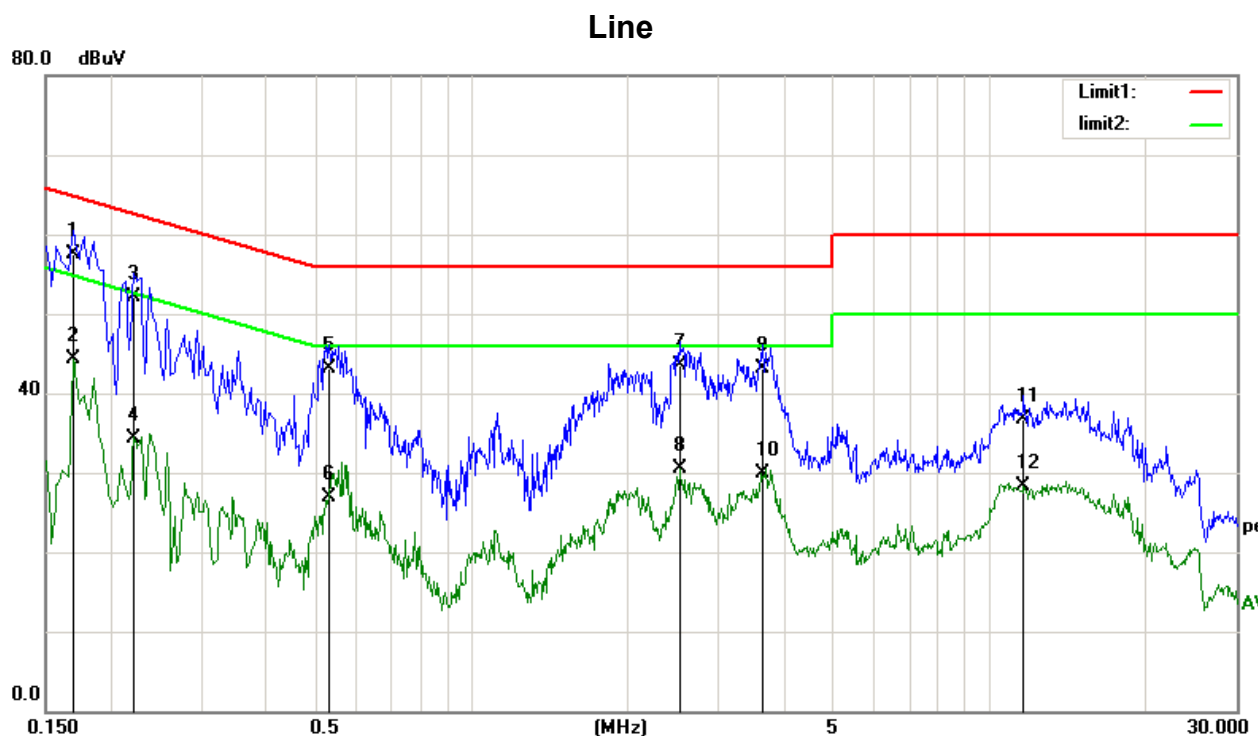


4.5 EUT OPERATING CONDITIONS

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: BLE 1M TX Mode Channel 39



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1700	47.25	10.17	57.42	64.96	-7.54	QP
2	0.1700	34.20	10.17	44.37	54.96	-10.59	AVG
3	0.2220	41.94	10.16	52.10	62.74	-10.64	QP
4	0.2220	24.24	10.16	34.40	52.74	-18.34	AVG
5	0.5299	32.98	10.19	43.17	56.00	-12.83	QP
6	0.5299	16.72	10.19	26.91	46.00	-19.09	AVG
7	2.5260	33.25	10.24	43.49	56.00	-12.51	QP
8	2.5260	20.21	10.24	30.45	46.00	-15.55	AVG
9	3.6380	32.73	10.28	43.01	56.00	-12.99	QP
10	3.6380	19.59	10.28	29.87	46.00	-16.13	AVG
11	11.6219	26.16	10.49	36.65	60.00	-23.35	QP
12	11.6219	17.81	10.49	28.30	50.00	-21.70	AVG

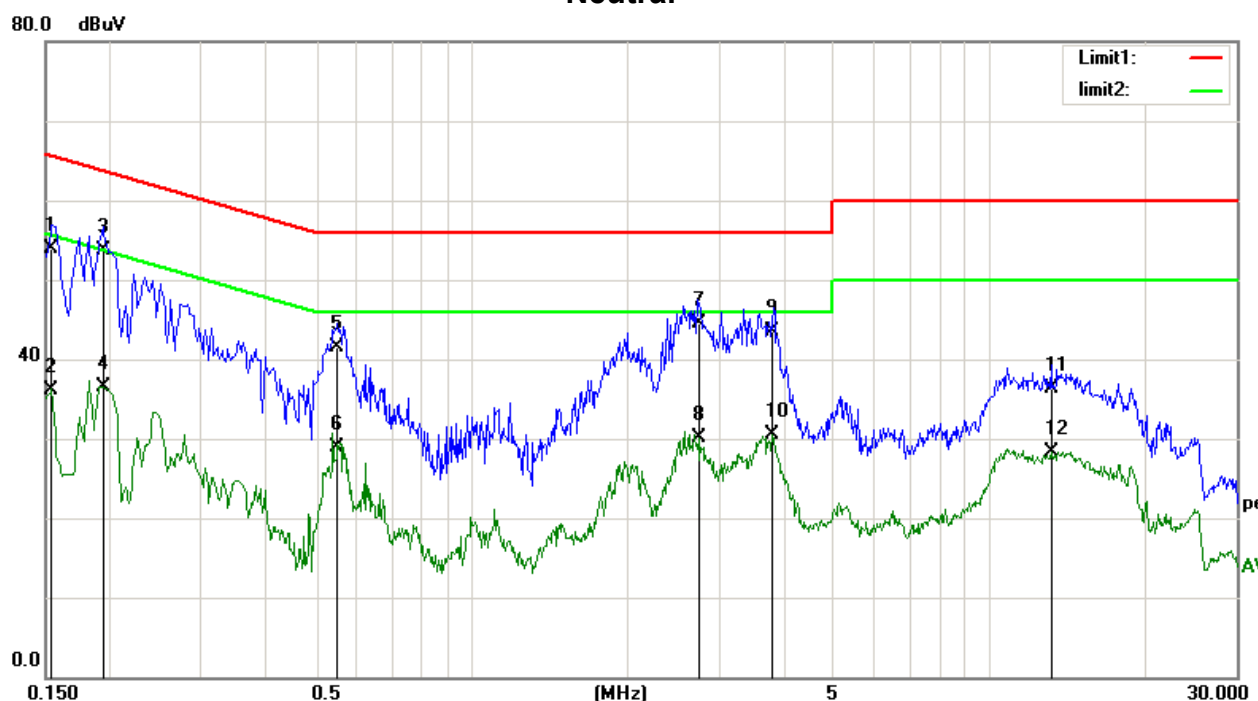
Remarks:

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

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

Test Mode: BLE 1M TX Mode Channel 39

Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1539	43.72	10.17	53.89	65.78	-11.89	QP
2	0.1539	26.03	10.17	36.20	55.78	-19.58	AVG
3	0.1940	43.45	10.17	53.62	63.86	-10.24	QP
4	0.1940	26.33	10.17	36.50	53.86	-17.36	AVG
5	0.5500	31.37	10.19	41.56	56.00	-14.44	QP
6	0.5500	18.81	10.19	29.00	46.00	-17.00	AVG
7	2.7380	34.34	10.26	44.60	56.00	-11.40	QP
8	2.7380	19.82	10.26	30.08	46.00	-15.92	AVG
9	3.8140	33.16	10.31	43.47	56.00	-12.53	QP
10	3.8140	20.19	10.31	30.50	46.00	-15.50	AVG
11	13.1299	25.80	10.54	36.34	60.00	-23.66	QP
12	13.1299	17.78	10.54	28.32	50.00	-21.68	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 7.5, then the 15.209 (a) and RSS-Gen 7.4.3 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 (uV/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 or 1.5m 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)	RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value

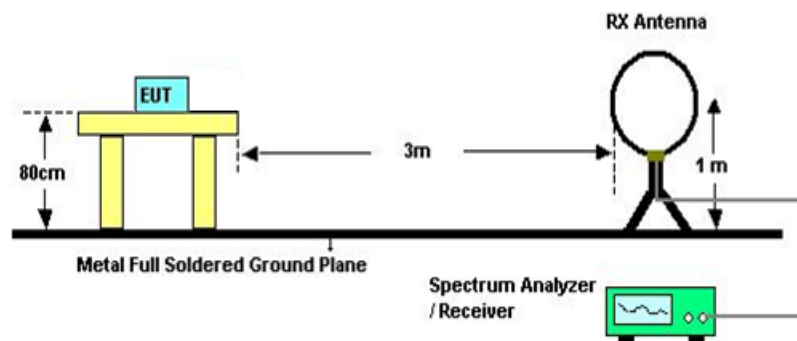
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz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

5.3 MEASUREMENT INSTRUMENTS LIST

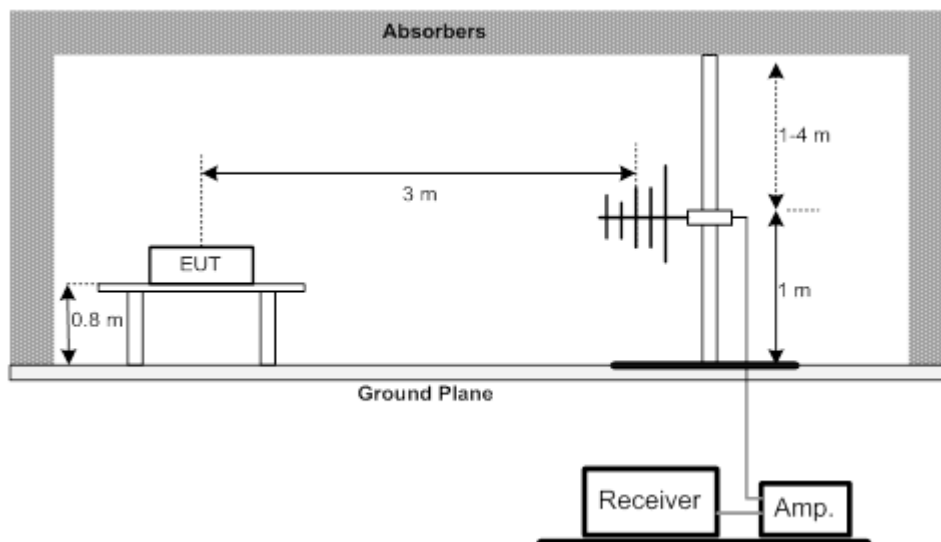
Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	101307	05/08/2027
2	Spectrum Analyzer	Agilent	E4407B	US40240708	11/12/2026
3	Loop antenna	SCHWARZBECK	FMZB1519	1519-062	04/01/2028
4	Broadband antenna	SCHWARZBECK	VULB9168	VULB9168-192	03/31/2028
5	Horn antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D1065	04/11/2028
6	Preamplifier Amplifier	HP	8447F	3113A05680	11/12/2026
7	Pre-Amplifier	EMEC	EM01G26G	060679	05/10/2027
8	RF Cable	N/A	Test Cable 8	8	03/19/2027
9	RF Cable	N/A	Test Cable 9	9	03/19/2027
10	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

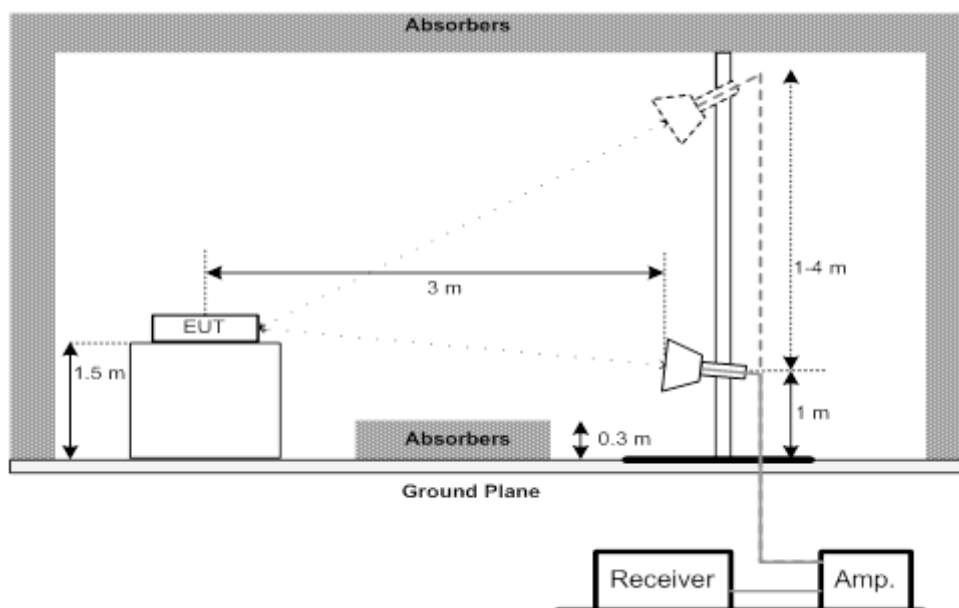
5.4 TEST SETUP

9 kHz-30 MHz



30 MHz to 1 GHz



Above 1 GHz**5.5 EUT OPERATING CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT- 9kHz TO 30MHz

Test Mode:	BLE 1M TX Mode Channel 39
------------	---------------------------

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.

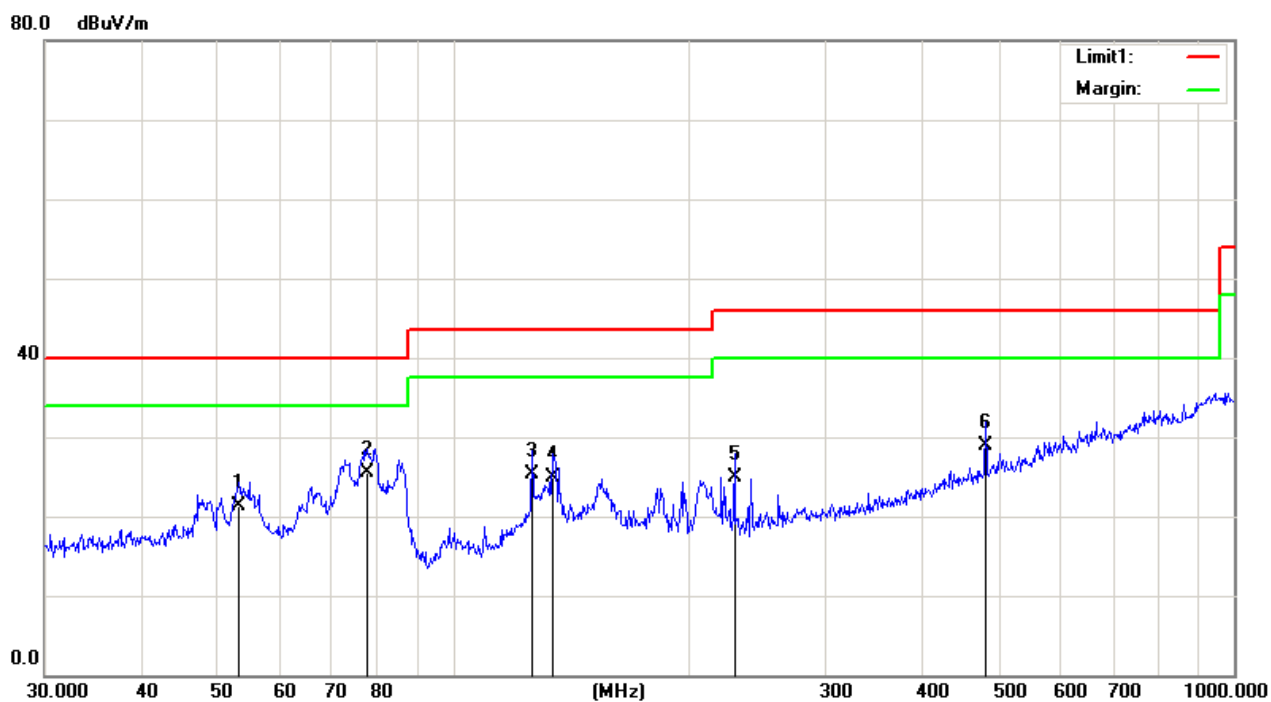
Distance extrapolation factor = $20 \log (\text{specific distance/test distance})(\text{dB})$;

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

5.7 TEST RESULT- 30MHz TO 1000MHz

Test Mode : BLE 1M TX Mode Channel 39

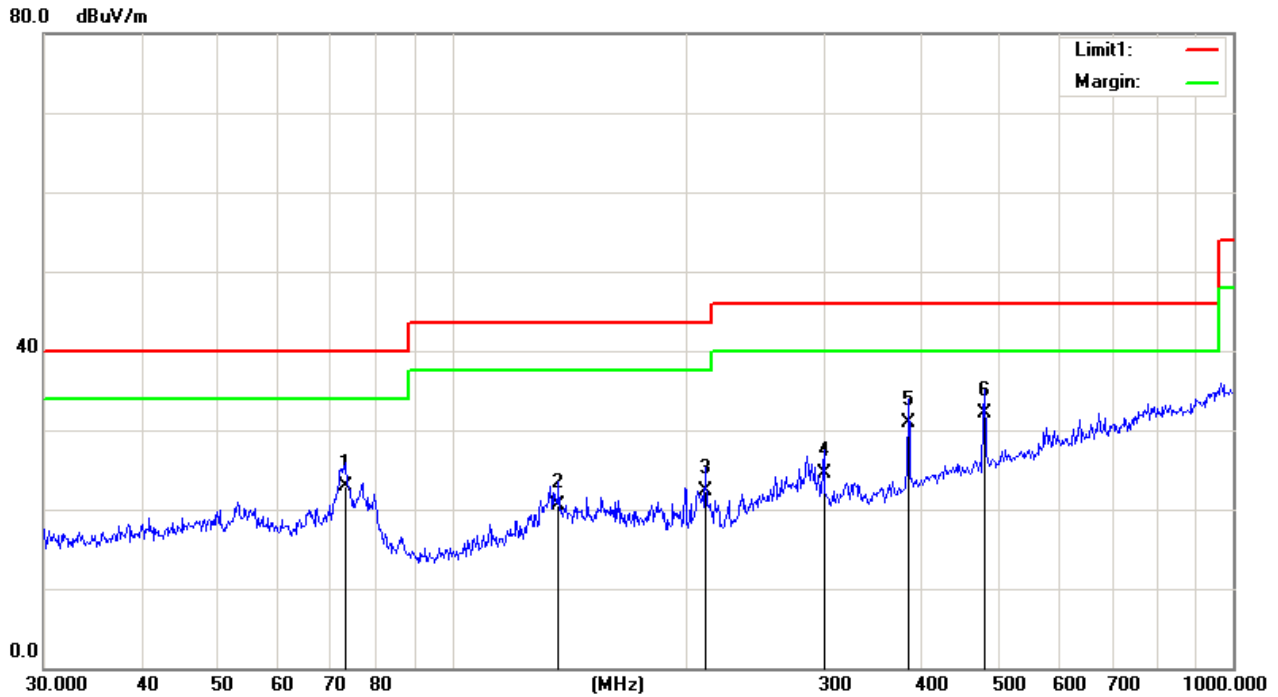
Vertical



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		53.1313	28.37	-7.11	21.26	40.00	-18.74	QP	100	158
2	*	77.5927	35.15	-9.72	25.43	40.00	-14.57	QP	100	32
3		126.3285	32.54	-7.31	25.23	43.50	-18.27	QP	100	14
4		134.0882	31.24	-6.39	24.85	43.50	-18.65	QP	100	12
5		229.2931	32.22	-7.27	24.95	46.00	-21.05	QP	100	57
6		480.5276	28.67	0.15	28.82	46.00	-17.18	QP	100	304

Test Mode : BLE 1M TX Mode Channel 39

Horizontal

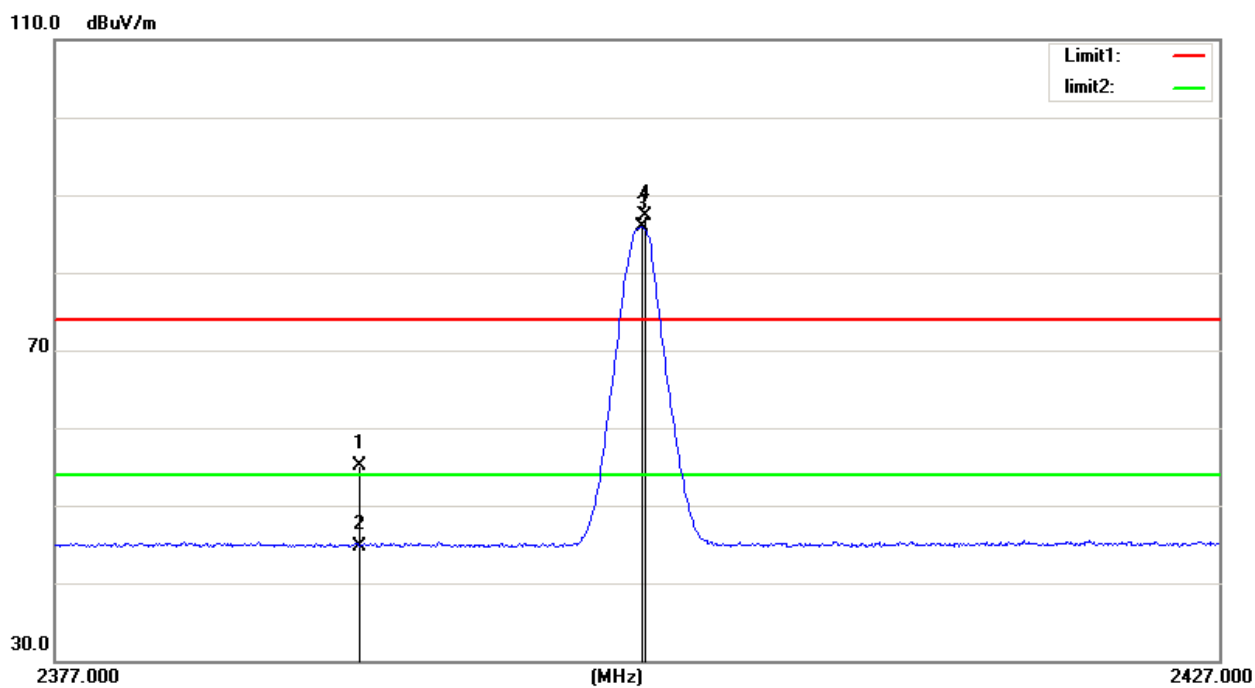


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		73.1025	31.58	-8.77	22.81	40.00	-17.19	QP	100	49
2		136.9391	26.63	-6.11	20.52	43.50	-22.98	QP	100	56
3		210.7860	30.14	-7.80	22.34	43.50	-21.16	QP	100	12
4		299.3158	28.33	-3.86	24.47	46.00	-21.53	QP	100	301
5		383.9318	32.85	-1.98	30.87	46.00	-15.13	QP	100	45
6	*	480.5276	32.00	0.15	32.15	46.00	-13.85	QP	100	102

5.8 TEST RESULT- ABOVE 1000MHz (BAND EDGE)

Test Mode: TX 2402 MHz_CH00_1Mbps

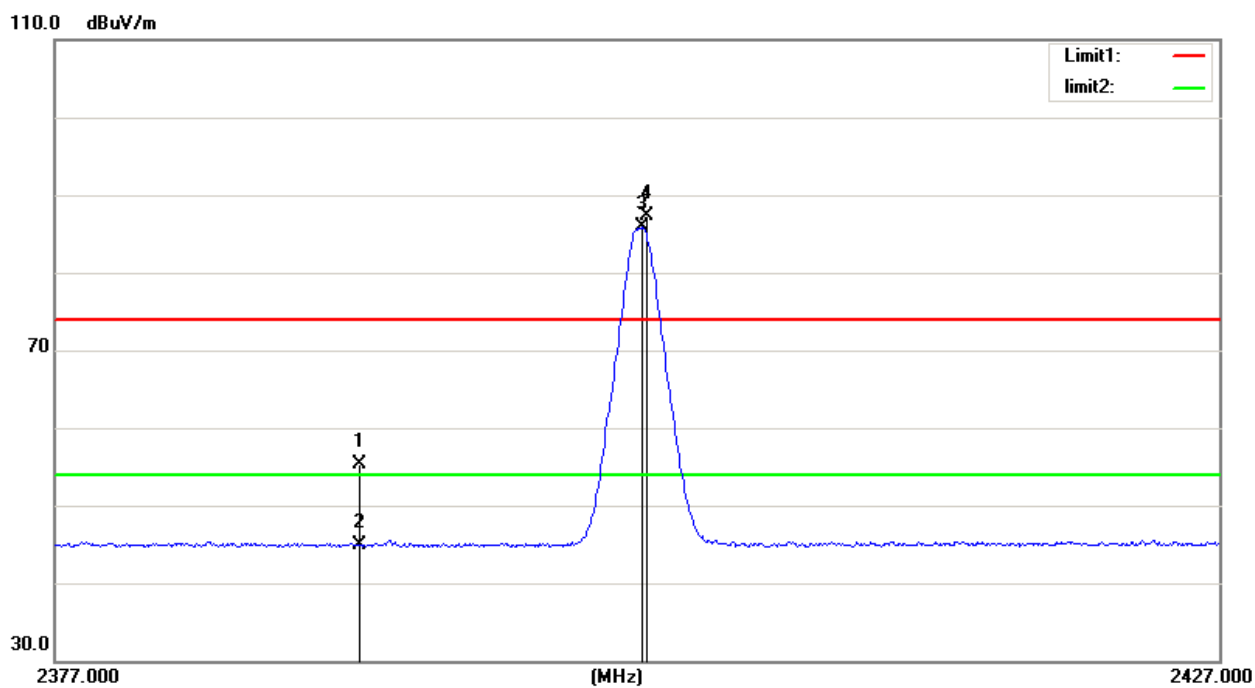
Vertical



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		2390.000	21.16	34.01	55.17	74.00	-18.83	peak	150	113
2		2390.000	10.75	34.01	44.76	54.00	-9.24	AVG	150	113
3	*	2402.100	51.87	34.00	85.87	54.00	31.87	AVG	150	113
4	X	2402.250	53.22	34.00	87.22	74.00	13.22	peak	150	113

Test Mode: TX 2402 MHz_CH00_1Mbps

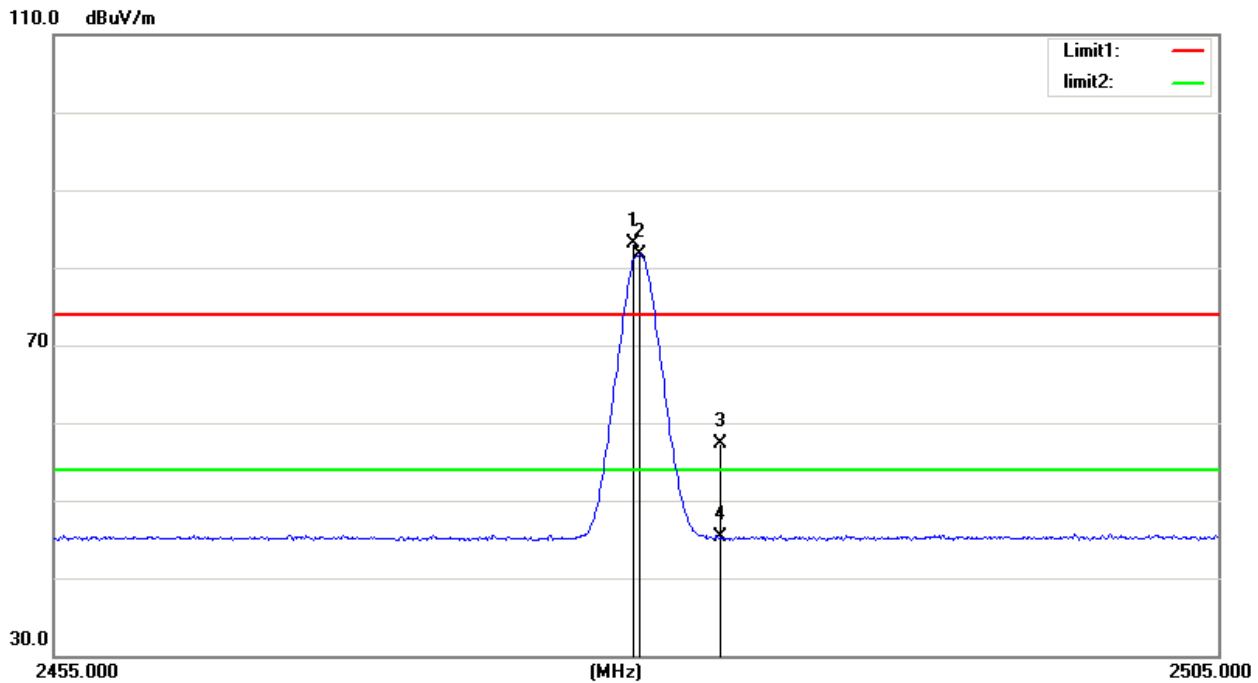
Horizontal



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		2390.000	21.38	34.01	55.39	74.00	-18.61	peak	150	169
2		2390.000	10.97	34.01	44.98	54.00	-9.02	AVG	150	169
3	*	2402.150	51.85	34.00	85.85	54.00	31.85	AVG	150	169 No Limit
4	X	2402.300	53.23	34.00	87.23	74.00	13.23	peak	150	169 No Limit

Test Mode: TX 2480 MHz_CH39_1Mbps

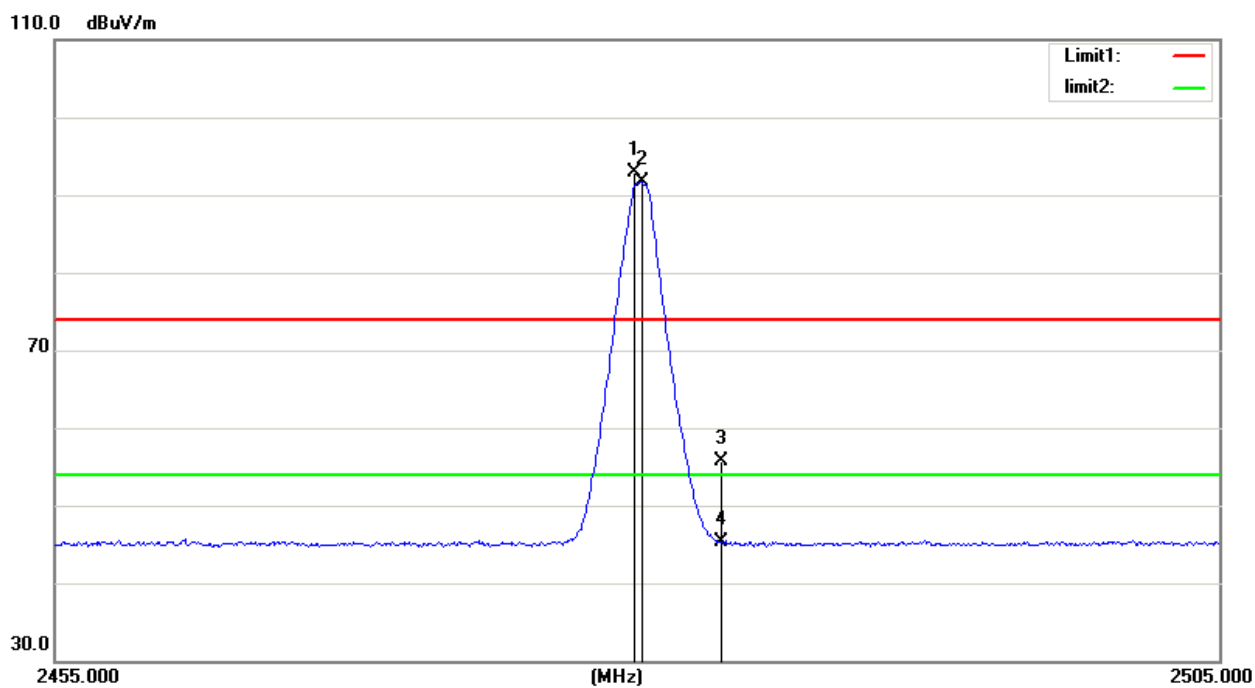
Vertical



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	Comment
1	X	2479.800	49.13	34.01	83.14	74.00	9.14	peak	150	76	No Limit
2	*	2480.050	47.65	34.01	81.66	54.00	27.66	AVG	150	76	No Limit
3		2483.500	23.21	34.01	57.22	74.00	-16.78	peak	150	76	
4		2483.500	11.28	34.01	45.29	54.00	-8.71	AVG	150	76	

Test Mode: TX 2480 MHz_CH39_1Mbps

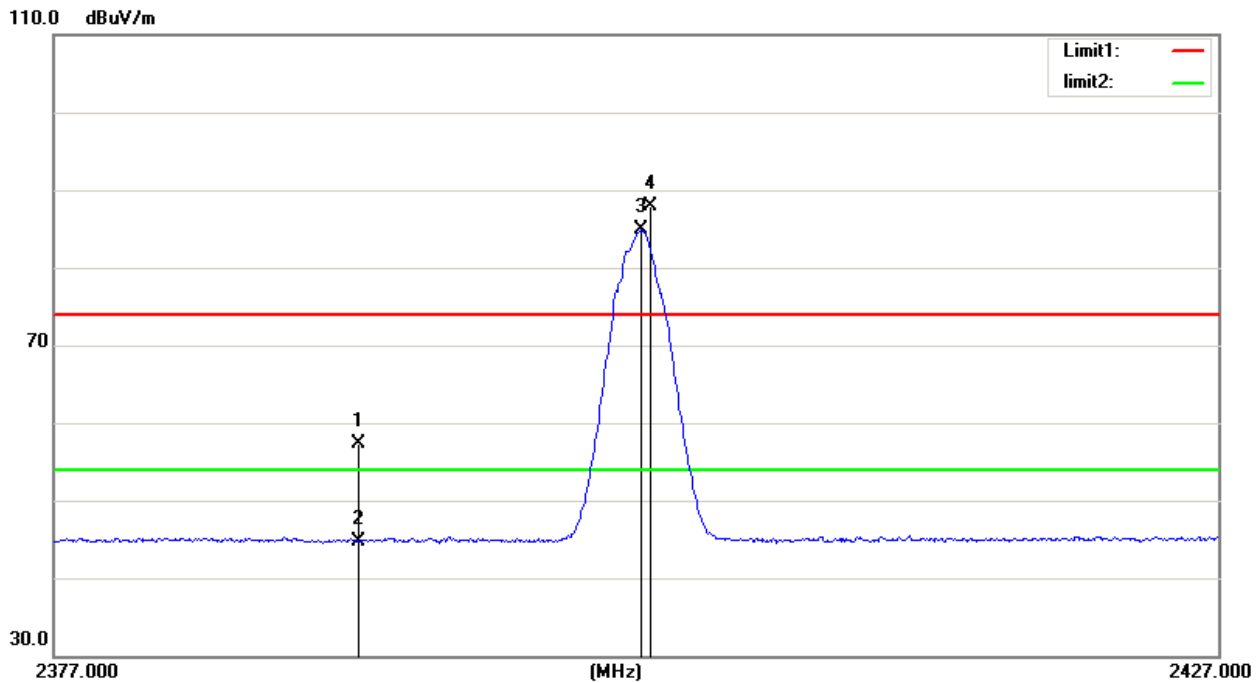
Horizontal



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	2479.800	58.94	34.01	92.95	74.00	18.95	peak	150	330	No Limit
2	*	2480.100	57.66	34.01	91.67	54.00	37.67	AVG	150	330	No Limit
3		2483.500	21.74	34.01	55.75	74.00	-18.25	peak	150	330	
4		2483.500	11.29	34.01	45.30	54.00	-8.70	AVG	150	330	

Test Mode: TX 2402 MHz_CH00_2Mbps

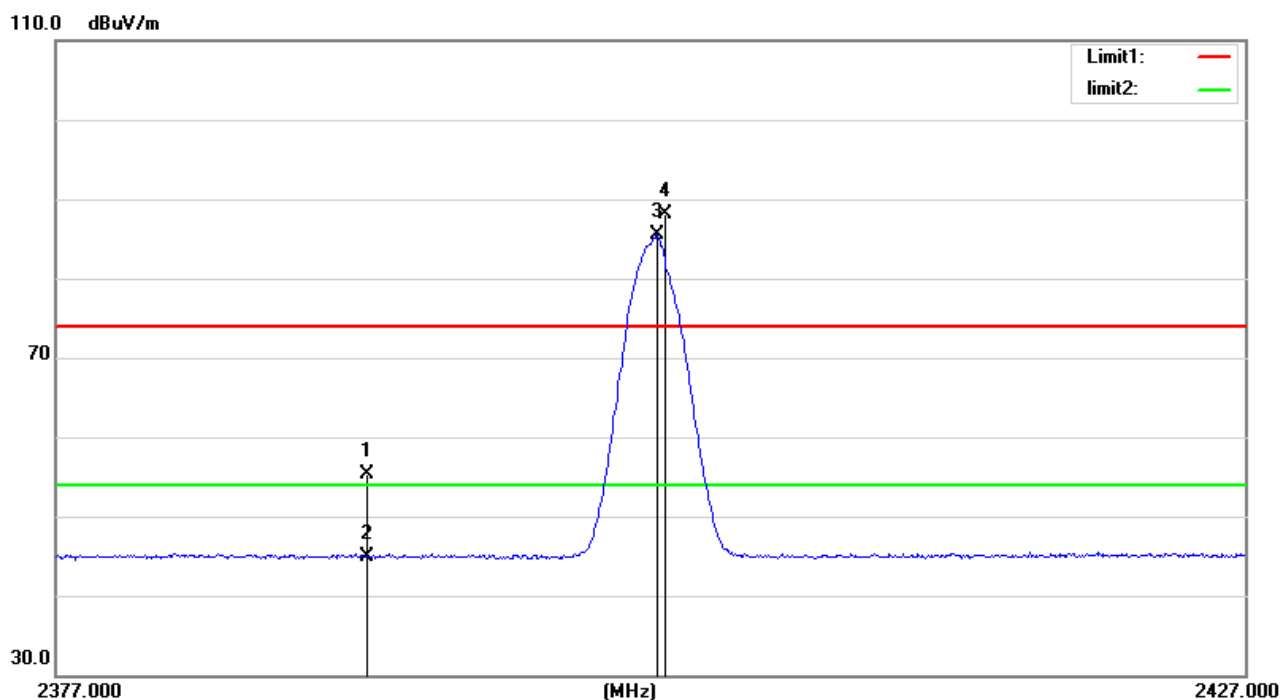
Vertical



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		2390.000	23.22	34.01	57.23	74.00	-16.77	peak	150	116
2		2390.000	10.77	34.01	44.78	54.00	-9.22	AVG	150	116
3	*	2402.100	50.83	34.00	84.83	54.00	30.83	AVG	150	116
4	X	2402.500	53.84	33.99	87.83	74.00	13.83	peak	150	116

Test Mode: TX 2402 MHz_CH00_2Mbps

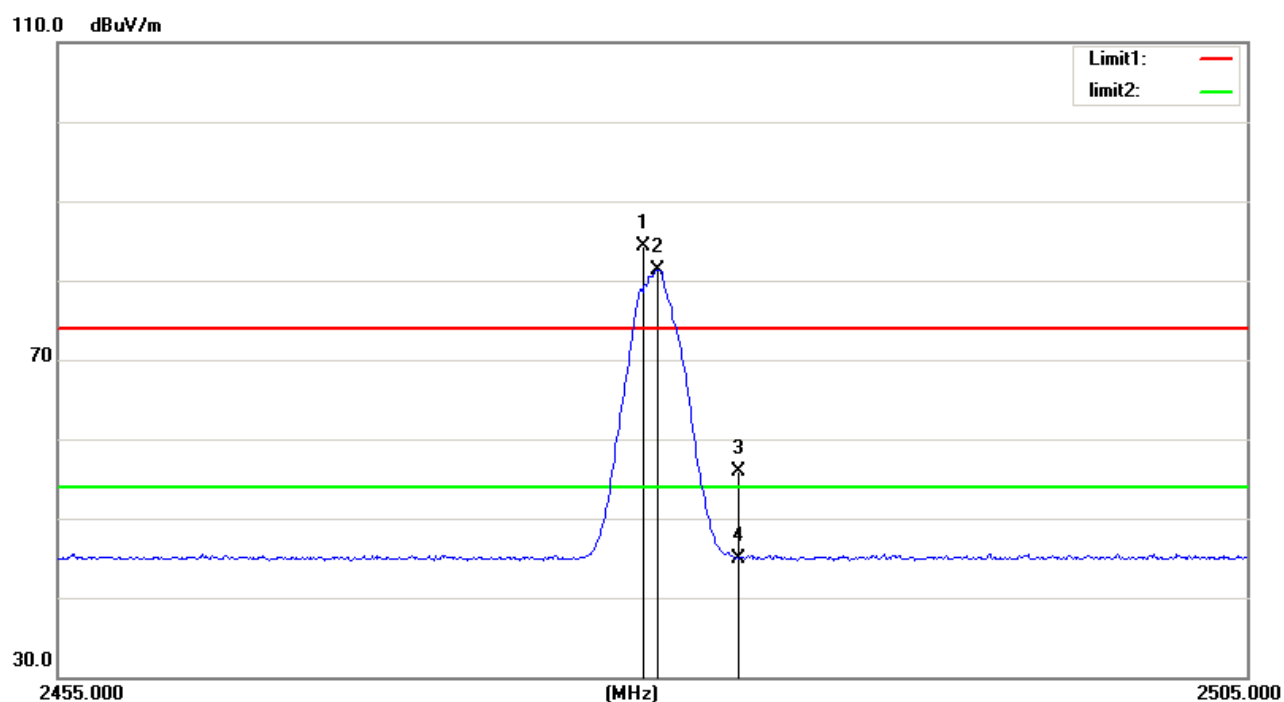
Horizontal



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	21.39	34.01	55.40	74.00	-18.60	peak	150	112
2		2390.000	10.83	34.01	44.84	54.00	-9.16	AVG	150	112
3	*	2402.200	51.47	34.00	85.47	54.00	31.47	AVG	150	112
4	X	2402.550	54.02	33.99	88.01	74.00	14.01	peak	150	112

Test Mode: TX 2480 MHz_CH39_2Mbps

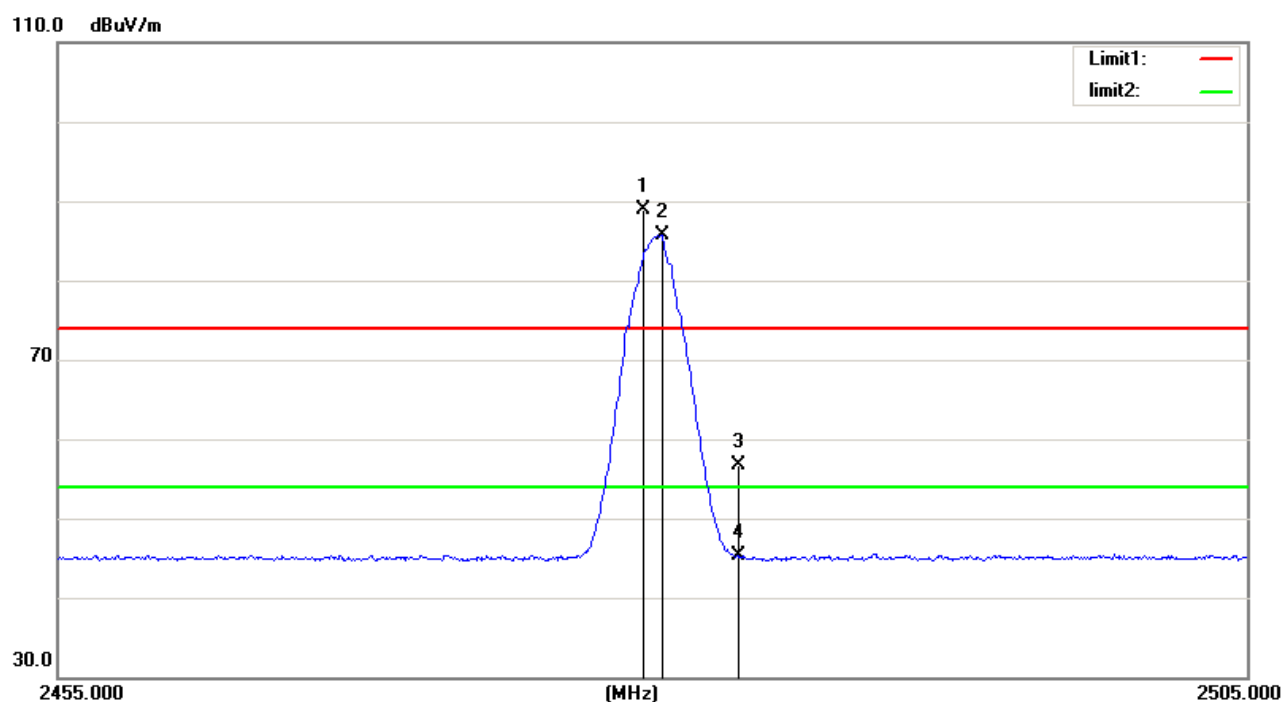
Vertical



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	Comment
1	X	2479.500	50.26	34.01	84.27	74.00	10.27	peak	150	98	No Limit
2	*	2480.100	47.37	34.01	81.38	54.00	27.38	AVG	150	98	No Limit
3		2483.500	21.98	34.01	55.99	74.00	-18.01	peak	150	98	
4		2483.500	10.90	34.01	44.91	54.00	-9.09	AVG	150	98	

Test Mode: TX 2480 MHz_CH39_2Mbps

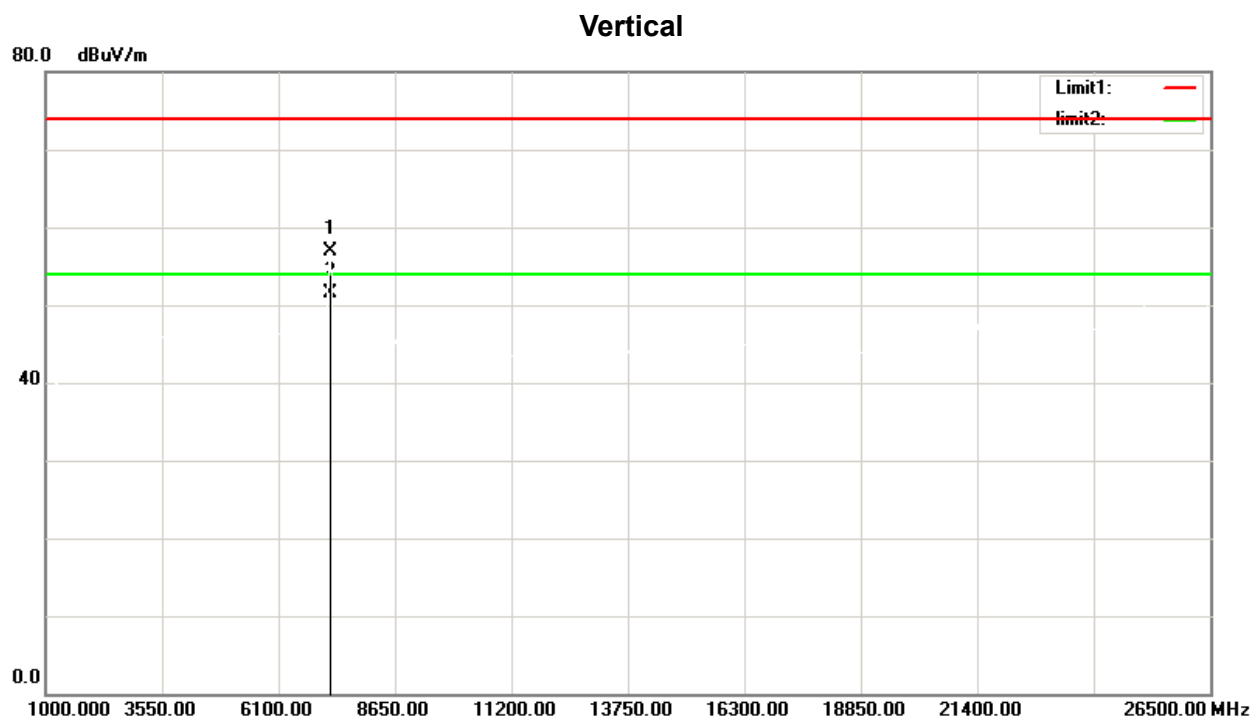
Horizontal



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	Comment
1	X	2479.500	54.83	34.01	88.84	74.00	14.84	peak	150	114	No Limit
2	*	2480.300	51.74	34.01	85.75	54.00	31.75	AVG	150	114	No Limit
3		2483.500	22.68	34.01	56.69	74.00	-17.31	peak	150	114	
4		2483.500	11.28	34.01	45.29	54.00	-8.71	AVG	150	114	

5.9 TEST RESULTS - ABOVE 1000MHz (HARMONIC)

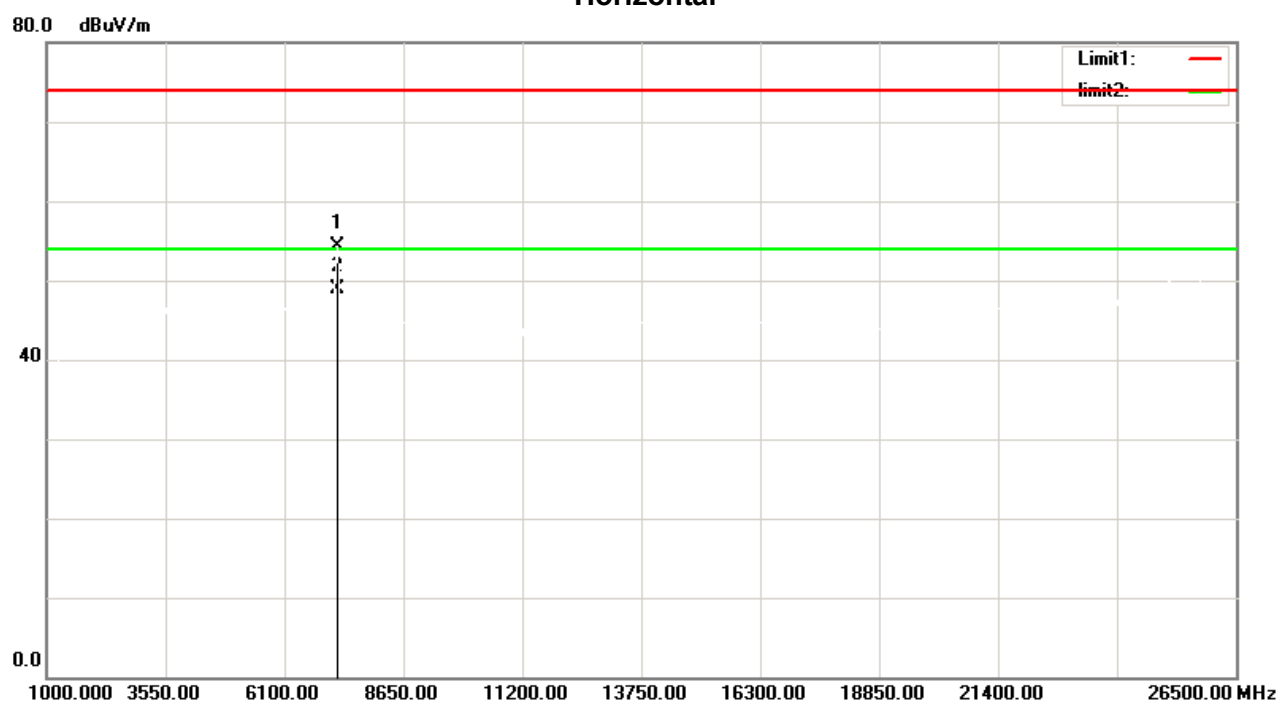
Test Mode: TX 2402 MHz_CH00_1Mbps



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		7247.500	47.19	9.69	56.88	74.00	-17.12	peak	150	75
2	*	7247.500	41.87	9.69	51.56	54.00	-2.44	AVG	150	75

Test Mode: TX 2402 MHz_CH00_1Mbps

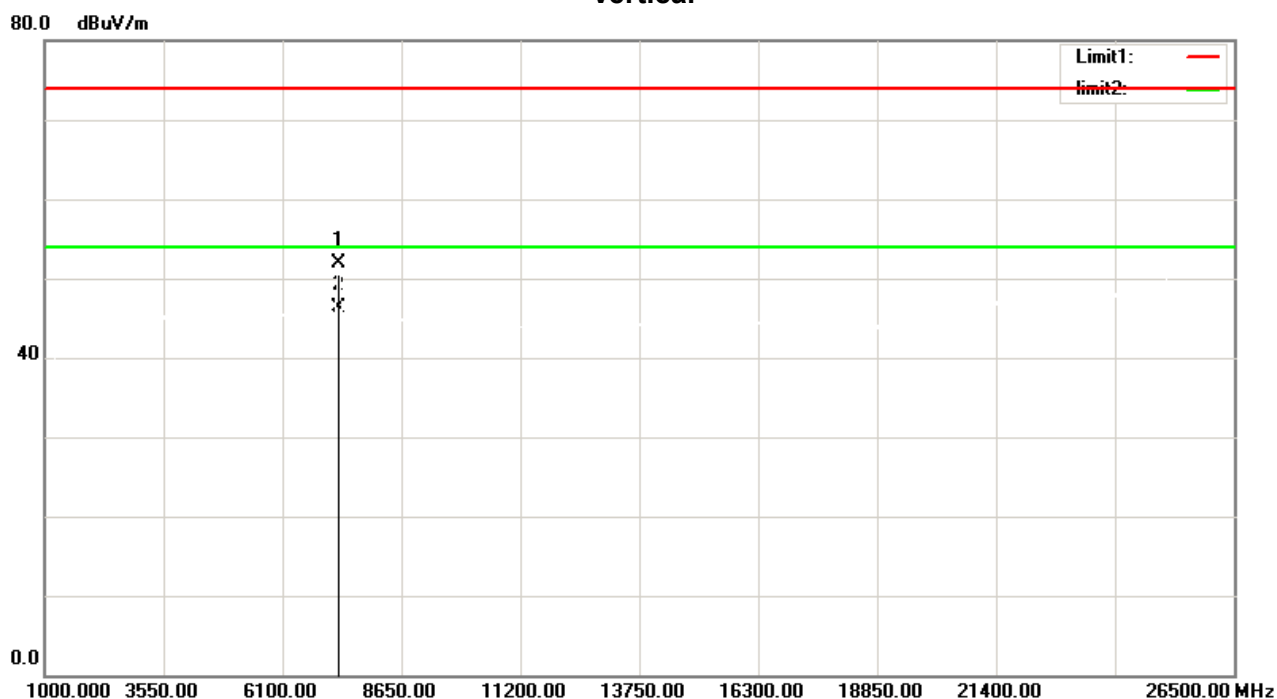
Horizontal



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		7247.500	44.70	9.69	54.39	74.00	-19.61	peak	150	41
2	*	7247.500	39.15	9.69	48.84	54.00	-5.16	AVG	150	41

Test Mode: TX 2440 MHz_CH19_1Mbps

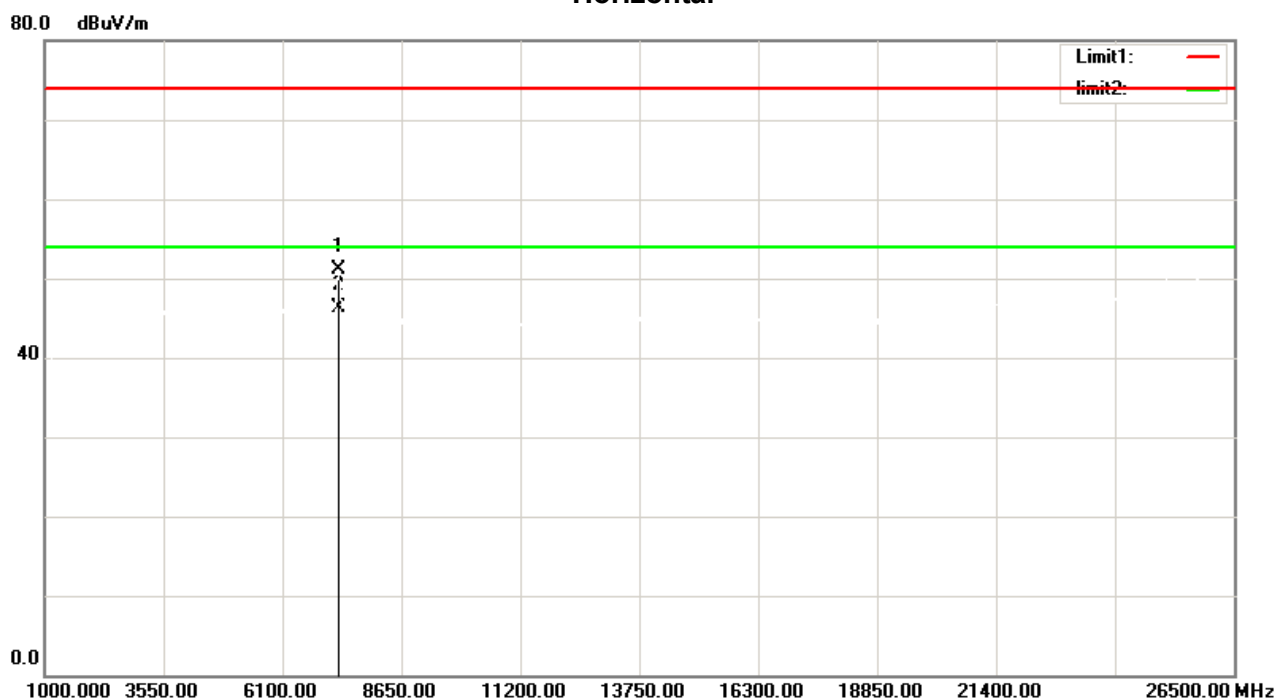
Vertical



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		7311.250	41.92	9.90	51.82	74.00	-22.18	peak	150	44
2	*	7311.250	36.47	9.90	46.37	54.00	-7.63	AVG	150	44

Test Mode: TX 2440 MHz_CH19_1Mbps

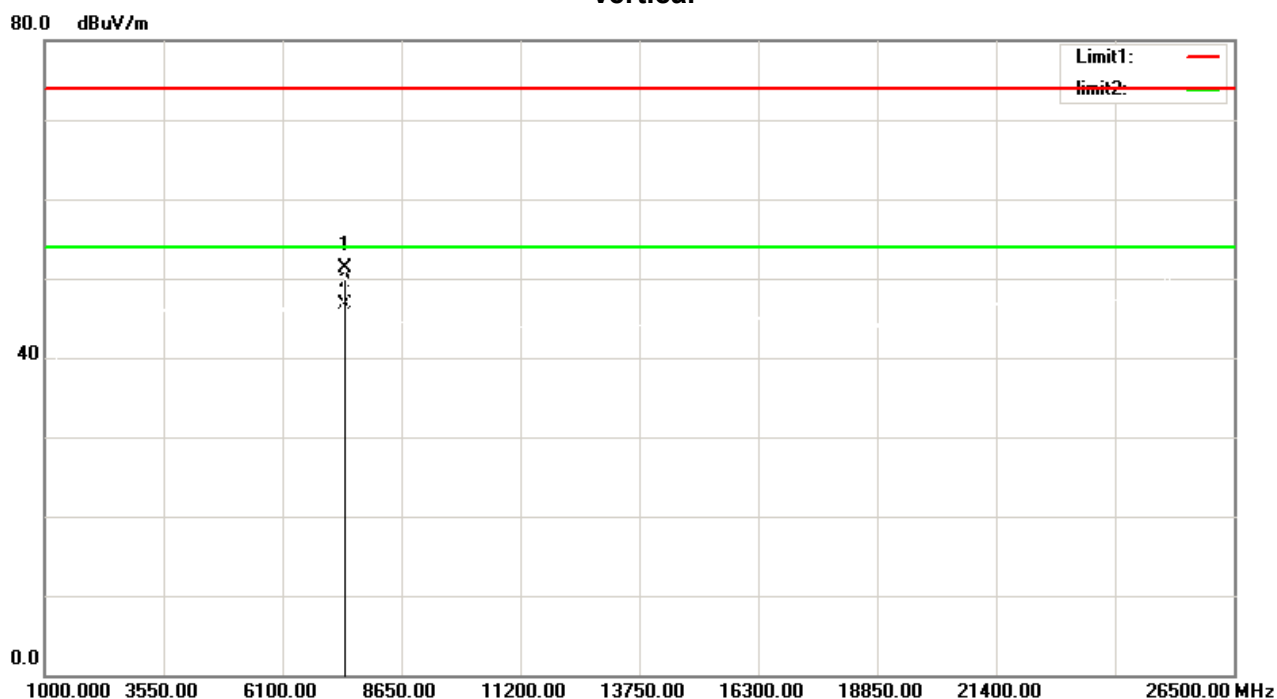
Horizontal



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		7311.250	41.28	9.90	51.18	74.00	-22.82	peak	150	131
2	*	7311.250	36.48	9.90	46.38	54.00	-7.62	AVG	150	131

Test Mode: TX 2480 MHz_CH39_1Mbps

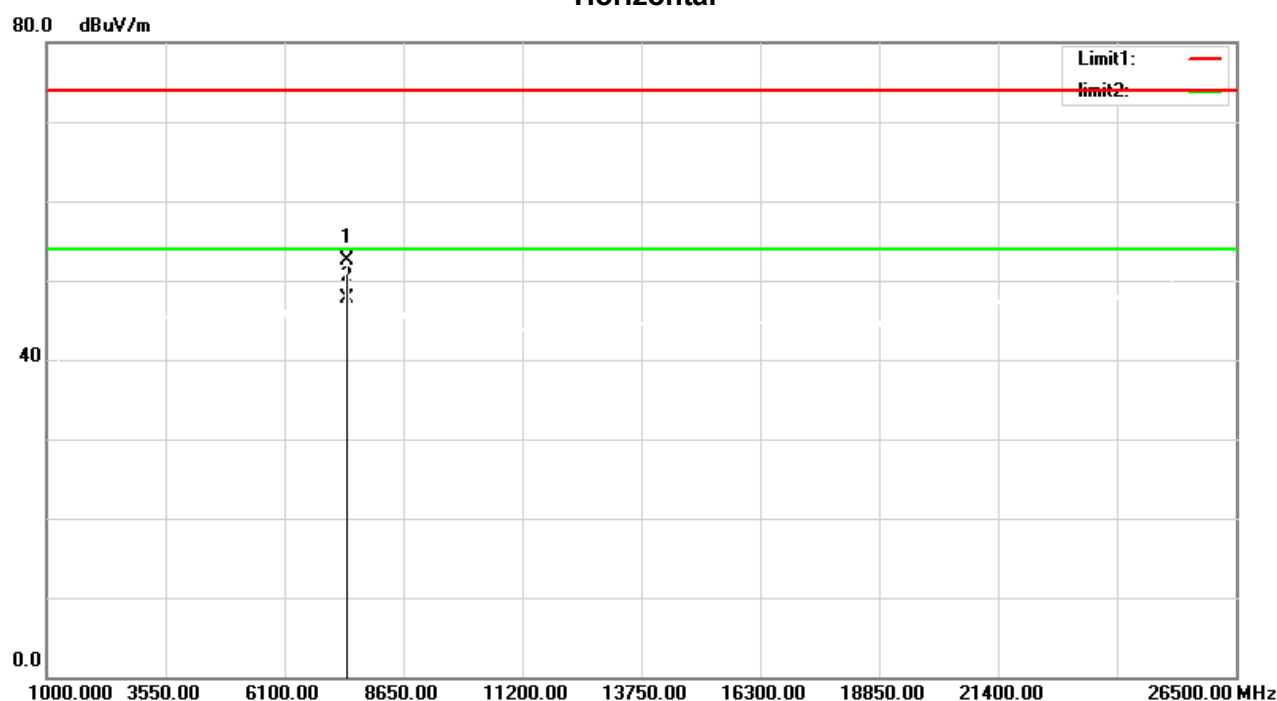
Vertical



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		7438.750	40.96	10.27	51.23	74.00	-22.77	peak	150	265
2	*	7438.750	36.48	10.27	46.75	54.00	-7.25	AVG	150	265

Test Mode: TX 2480 MHz_CH39_1Mbps

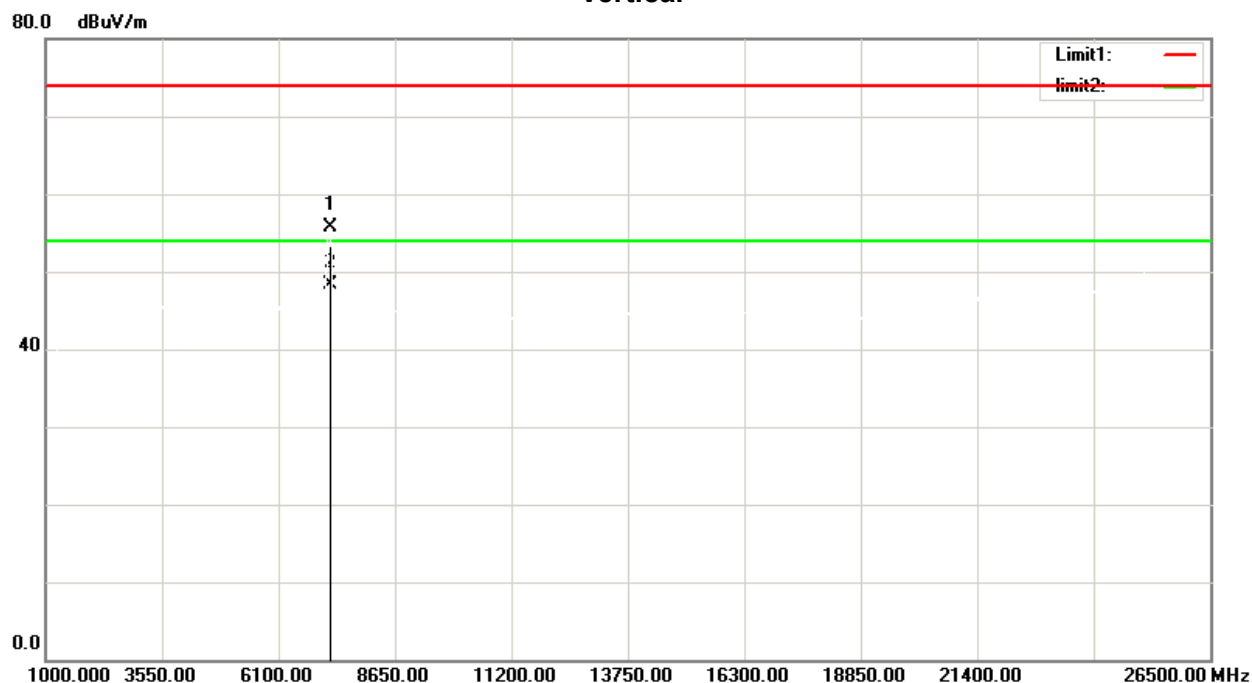
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree
1		7438.750	42.14	10.27	52.41	74.00	-21.59	peak	177
2	*	7438.750	37.38	10.27	47.65	54.00	-6.35	AVG	177

Test Mode: TX 2402 MHz_CH00_2Mbps

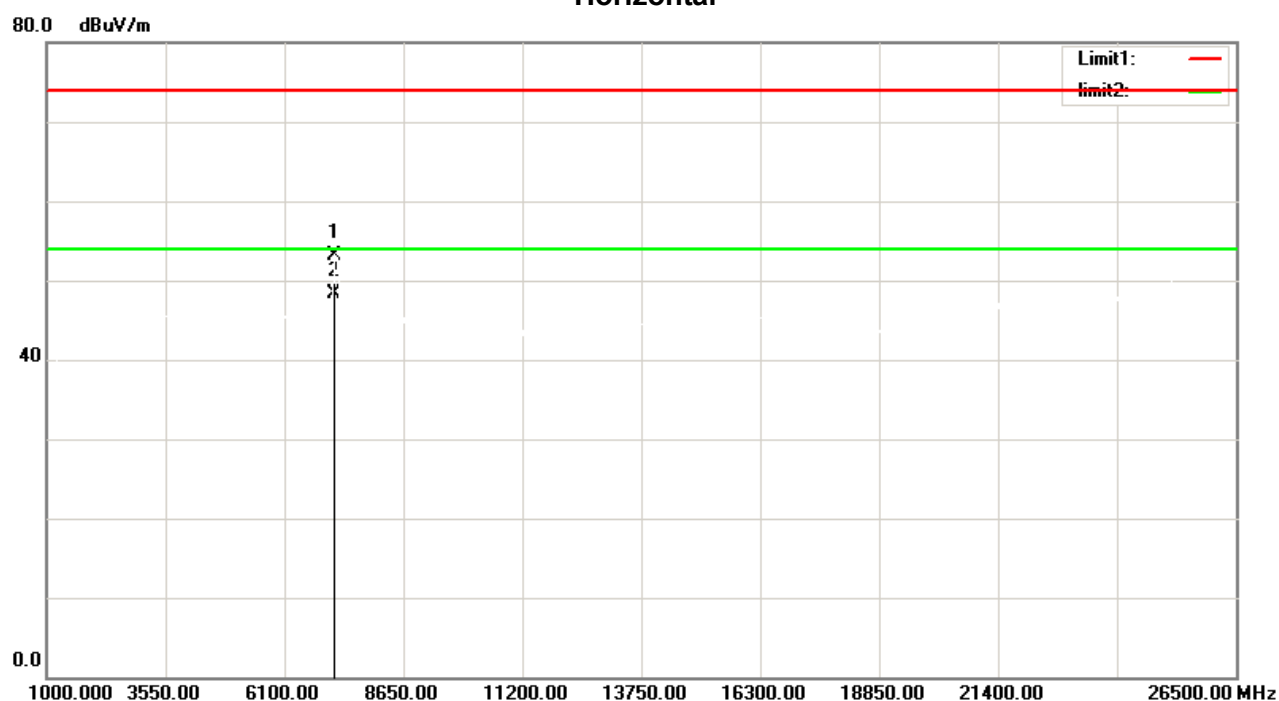
Vertical



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		7247.500	45.97	9.69	55.66	74.00	-18.34	peak	150	17
2	*	7247.500	38.67	9.69	48.36	54.00	-5.64	AVG	150	17

Test Mode: TX 2402 MHz_CH00_2Mbps

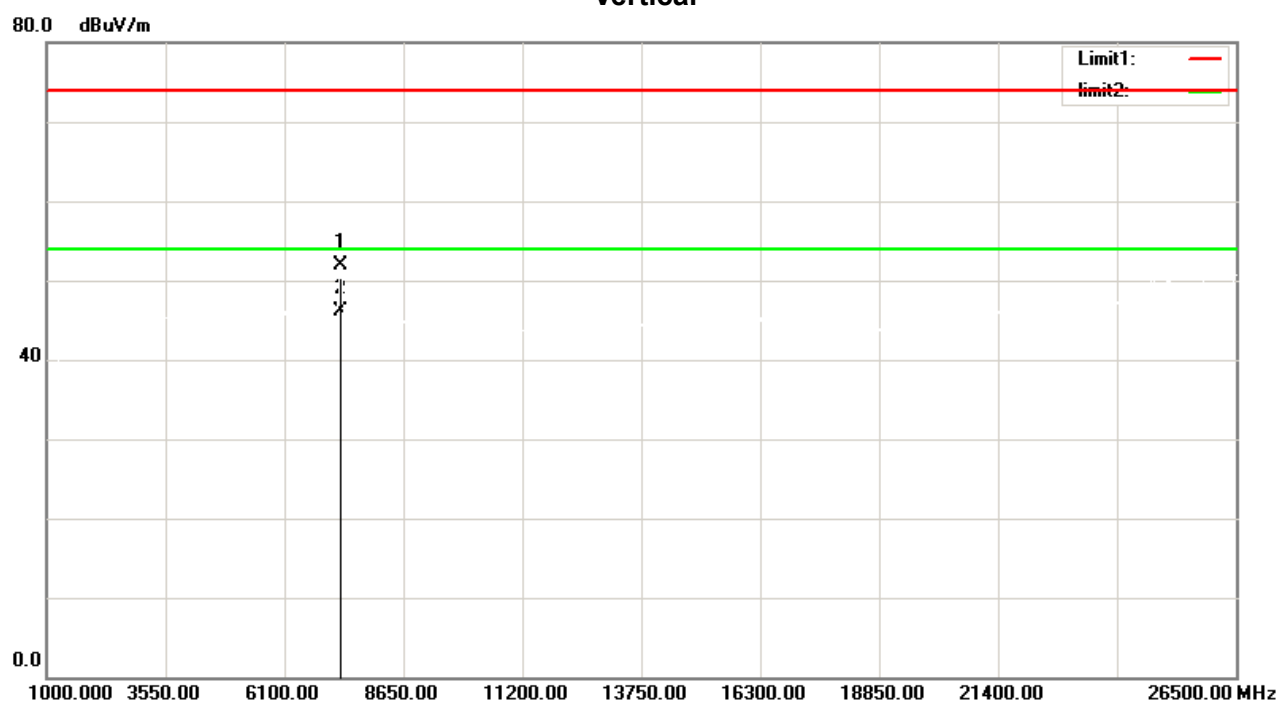
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree
1		7183.750	43.68	9.52	53.20	74.00	-20.80	peak	150	44
2	*	7183.750	38.81	9.52	48.33	54.00	-5.67	AVG	150	44

Test Mode: TX 2440 MHz_CH19_2Mbps

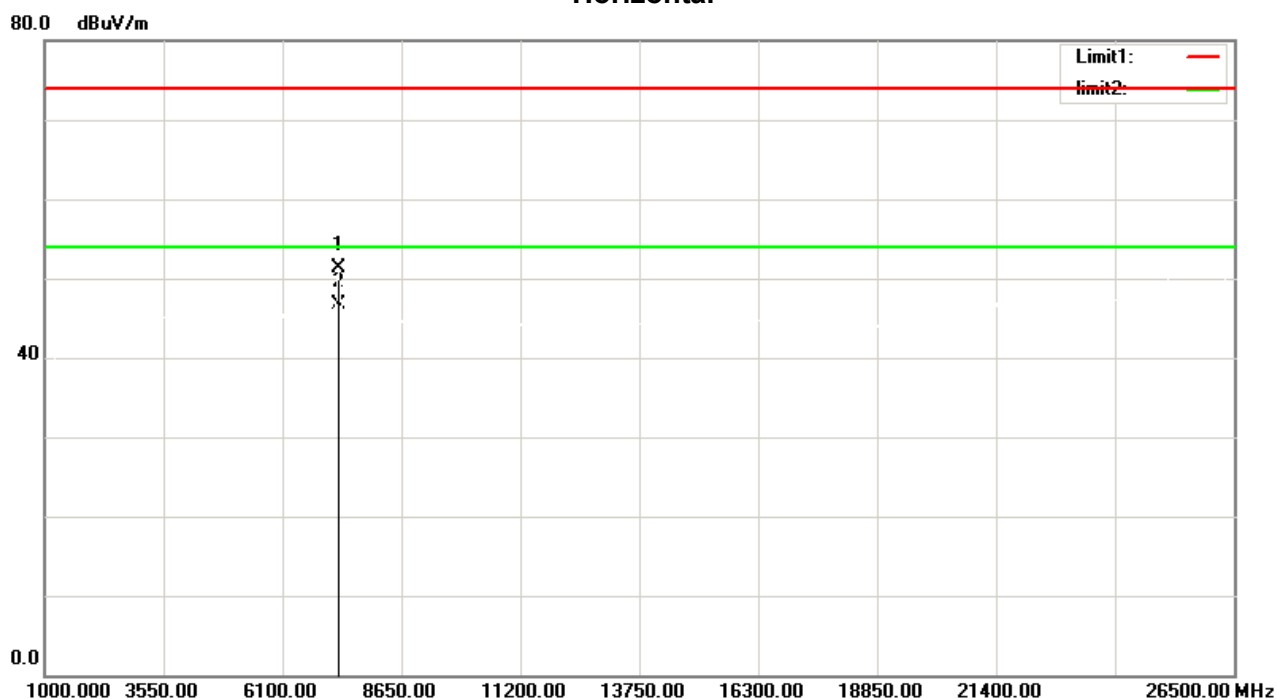
Vertical



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		7311.250	42.09	9.90	51.99	74.00	-22.01	peak	150	301
2	*	7311.250	36.22	9.90	46.12	54.00	-7.88	AVG	150	301

Test Mode: TX 2440 MHz_CH19_2Mbps

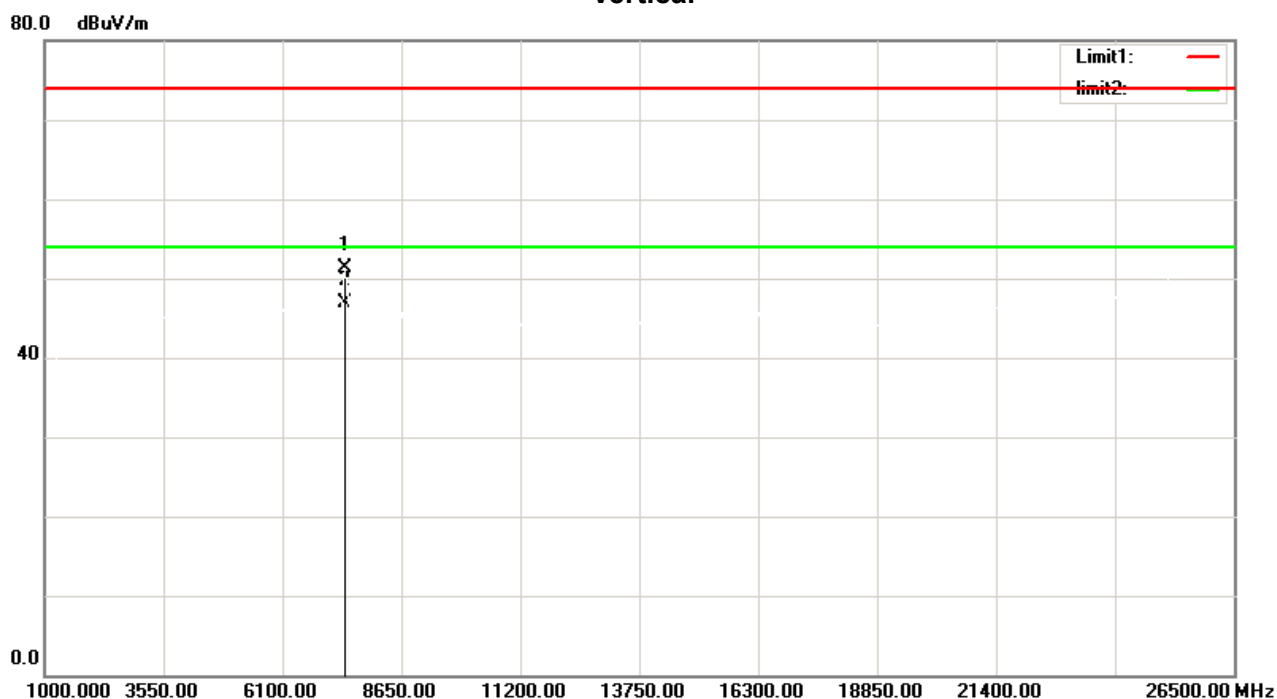
Horizontal



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		7311.250	41.35	9.90	51.25	74.00	-22.75	peak	150	103
2	*	7311.250	36.83	9.90	46.73	54.00	-7.27	AVG	150	103

Test Mode: TX 2480 MHz_CH39_2Mbps

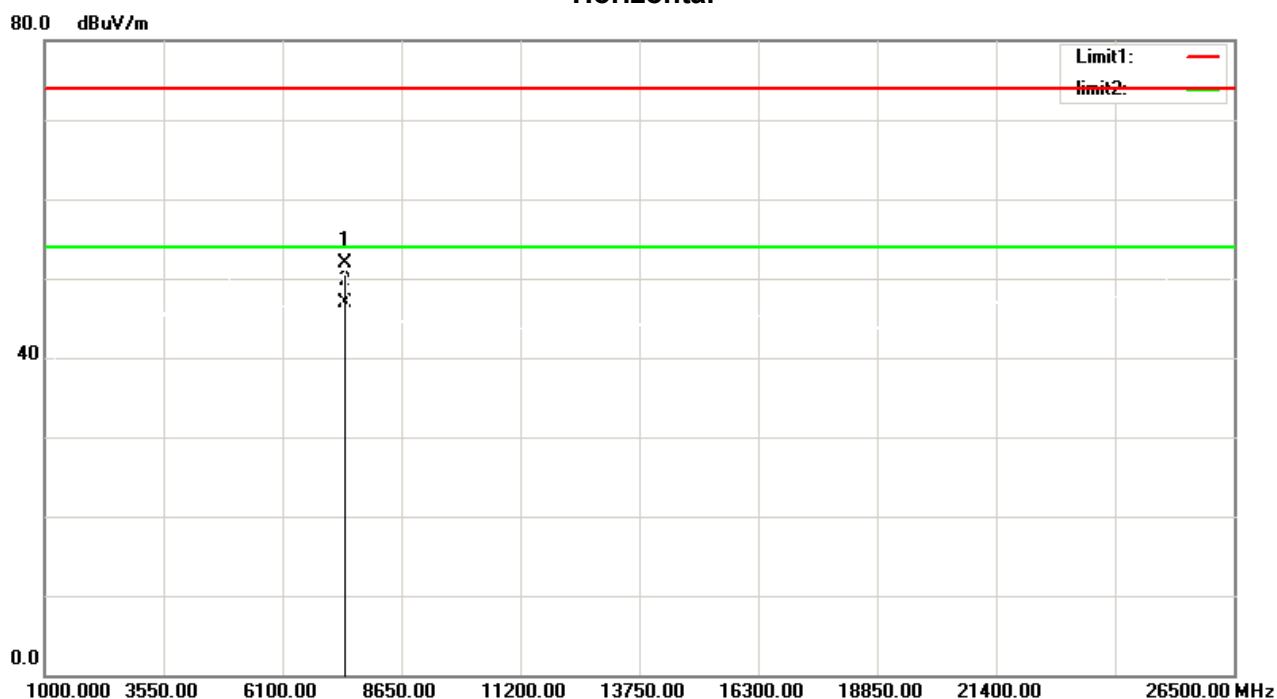
Vertical



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		7438.750	40.94	10.27	51.21	74.00	-22.79	peak	150	14
2	*	7438.750	36.62	10.27	46.89	54.00	-7.11	AVG	150	14

Test Mode: TX 2480 MHz_CH39_2Mbps

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		7438.750	41.69	10.27	51.96	74.00	-22.04	peak	150	78
2	*	7438.750	36.55	10.27	46.82	54.00	-7.18	AVG	150	78

6 BANDWIDTH TEST

6.1 LIMIT

FCC Part15, Subpart C (15.247) & RSS-247& RSS-Gen		
Section	Test Item	Limit
15.247(a)(2) RSS-Gen 5.1 RSS-247 6.3.1 (a)	Bandwidth	≥ 500 kHz (6dB bandwidth)

6.2 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:
 For 6dB Bandwidth:
 RBW= 100 kHz, VBW=300 kHz, Detector = Peak, Sweep time =Auto.
 For 99% Bandwidth:
 RBW=20kHz, VBW=62kHz, Detector = Peak, Sweep time =Auto. (For 1Mbps)
 RBW=30kHz, VBW=91kHz, Detector = Peak, Sweep time =Auto. (For 2Mbps)
 Allow the trace to stabilize.

6.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2027/05/10
2	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

6.4 TEST SETUP



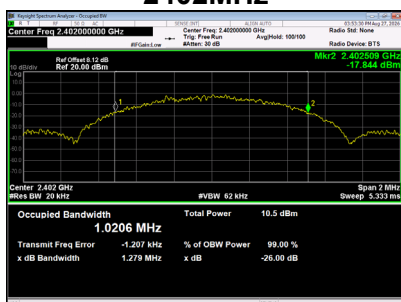
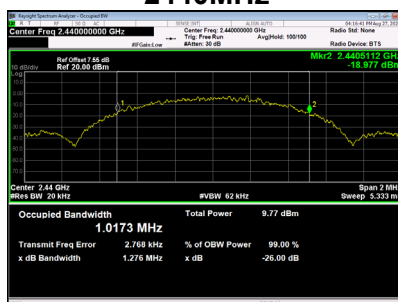
6.5 EUT OPERATION CONDITIONS

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.

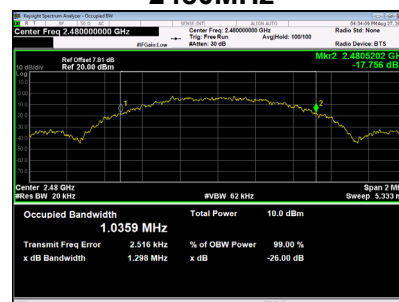
6.6 TEST RESULTS

TX Mode_1Mbps				
Channel	Frequency (MHz)	6 dB bandwidth (MHz)	99%OBW (MHz)	Result
CH00	2402	0.6862	1.0206	PASS
CH19	2440	0.6697	1.0173	PASS
CH39	2480	0.6915	1.0359	PASS

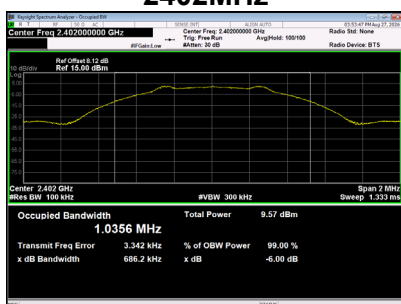
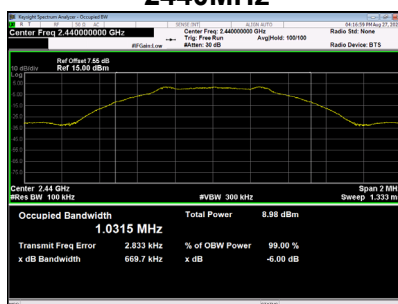
2402MHz


99%
2440MHz


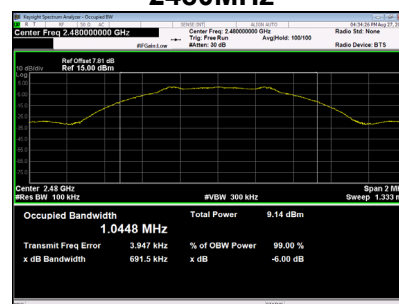
2480MHz



2402MHz

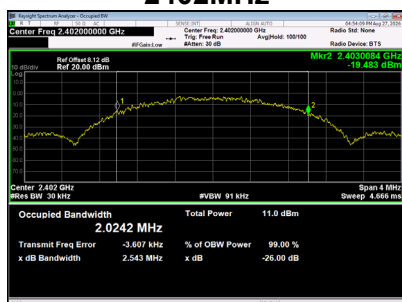

6dB
2440MHz


2480MHz

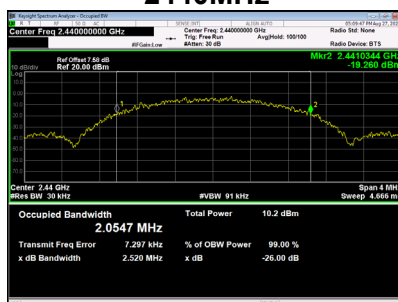


TX Mode 2Mbps				
Channel	Frequency (MHz)	6 dB bandwidth (MHz)	99%OBW (MHz)	Result
CH00	2402	1.391	2.0242	PASS
CH19	2440	1.355	2.0547	PASS
CH39	2480	1.346	2.0431	PASS

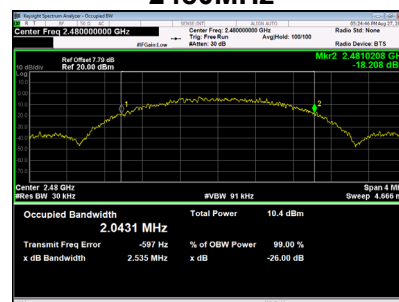
2402MHz



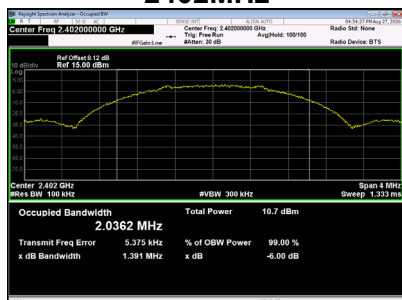
99%
2440MHz



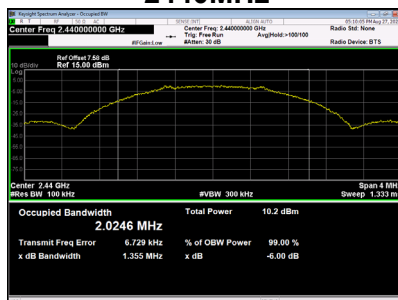
2480MHz



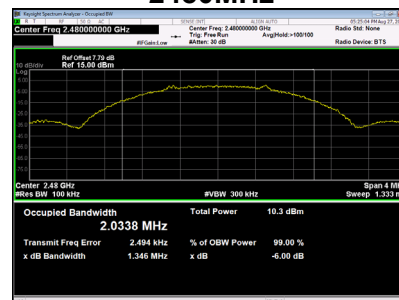
2402MHz



6dB
2440MHz



2480MHz



7 MAXIMUM OUTPUT POWER

7.1 LIMIT

FCC Part15, Subpart C (15.247) & RSS-247		
Section	Test Item	Limit
15.247 (b) (3) RSS-247 6.3.2	Maximum Output Power	1 watt or 30dBm

7.2 TEST PROCEDURE

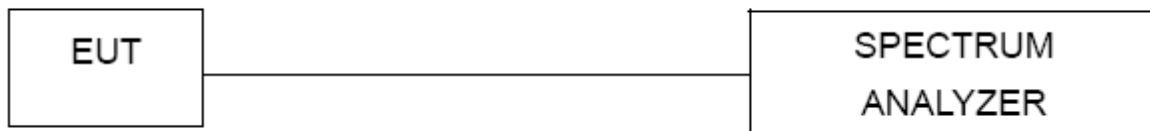
The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

- Set the RBW $\geq$ DTS bandwidth.
- Set VBW $\geq 3 \times$ RBW.
- Set span $\geq 3 \times$ RBW.
- Sweep time = No faster than coupled (auto) time.
- Detector = peak.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

7.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2027/05/10
2	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

7.4 TEST SETUP



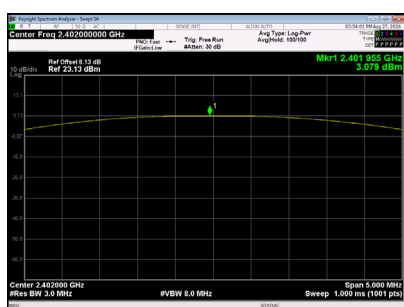
7.5 EUT OPERATION CONDITIONS

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.

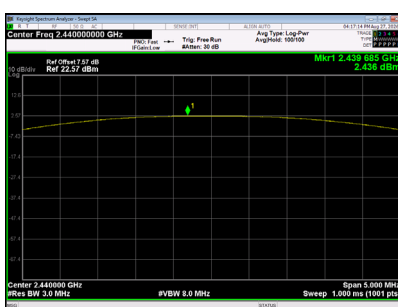
7.6 TEST RESULTS

TX Mode_1Mbps						
Gain	2.49dBi					
Channel	Frequency	Output Power	EIRP		Limit	Verdict
	(MHz)	(dBm)	(dBm)	(W)	(W)	
CH00	2402	3.079	1.999	0.001585	1.0	PASS
CH19	2440	2.436	1.356	0.001366	1.0	PASS
CH39	2480	2.659	1.579	0.001438	1.0	PASS

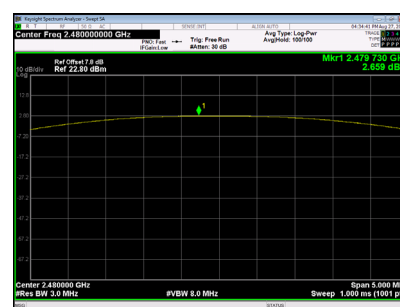
2402MHz



2440MHz

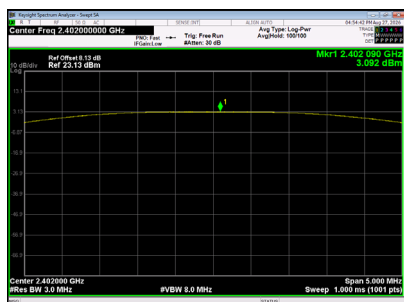


2480MHz

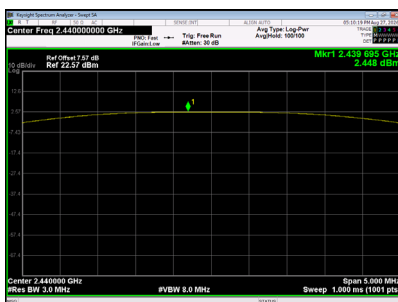


TX Mode_2Mbps						
Gain	2.49dBi					
Channel	Frequency	Output Power	EIRP		Limit	Verdict
	(MHz)	(dBm)	(dBm)	(W)	(W)	
CH00	2402	3.092	2.012	0.001589	1.0	PASS
CH19	2440	2.448	1.368	0.001370	1.0	PASS
CH39	2480	2.679	1.599	0.001445	1.0	PASS

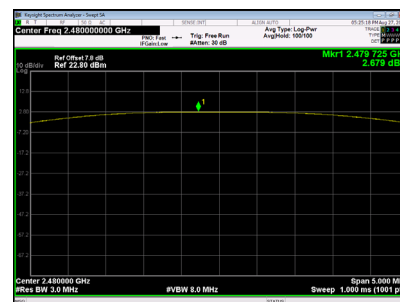
2402MHz



2440MHz



2480MHz



8 CONDUCTED SPURIOUS EMISSION

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

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

Reference level measurement:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to ≥ 1.5 times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW $\geq 3 \times$ RBW.
- e) Detector = peak.
- f) Sweep time = No faster than coupled (auto) time.
- g) Trace mode = max-hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

Emission level measurement:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq 3 \times$ RBW.
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

8.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2027/05/10
2	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

8.4 TEST SETUP

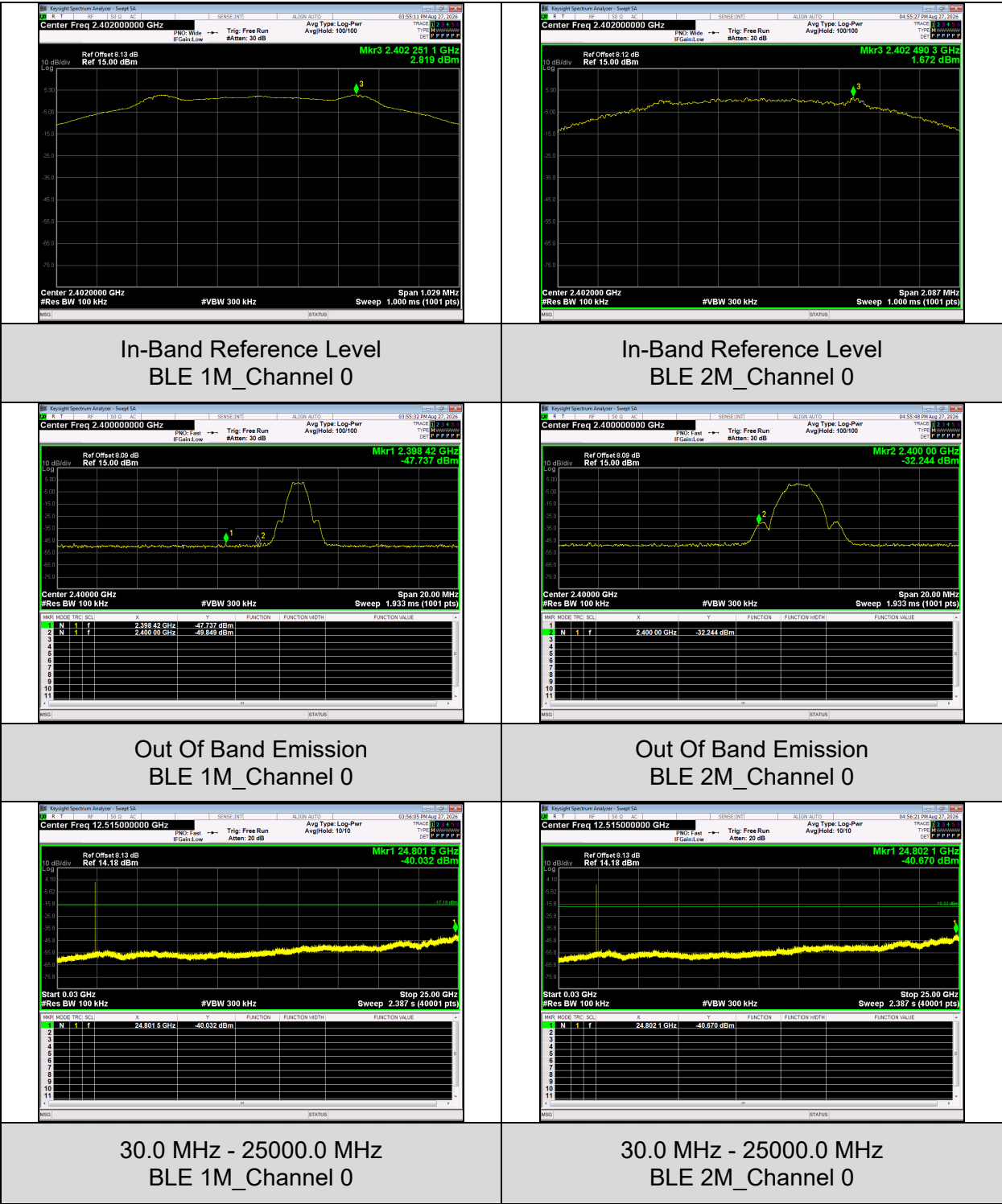


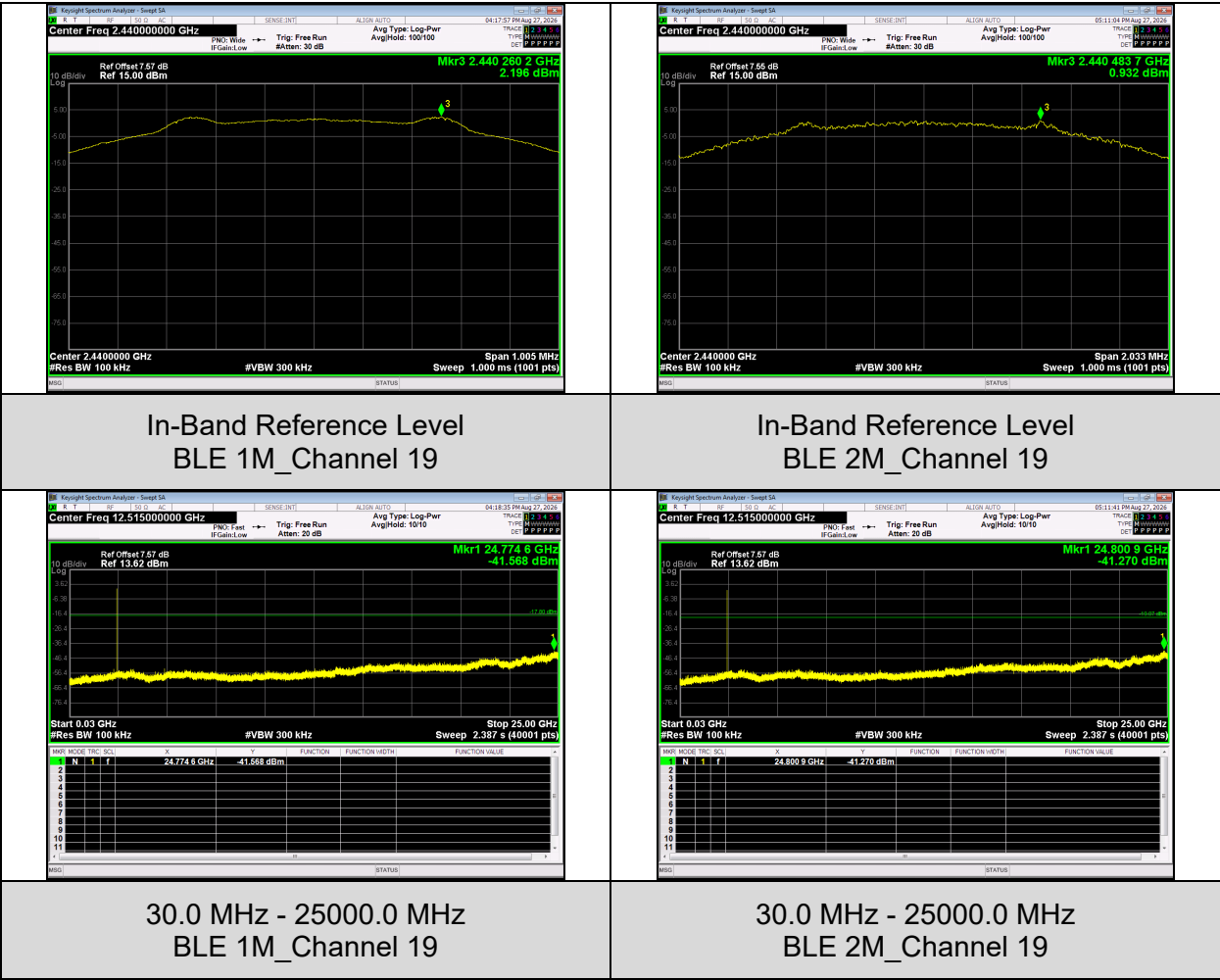
8.5 EUT OPERATION CONDITIONS

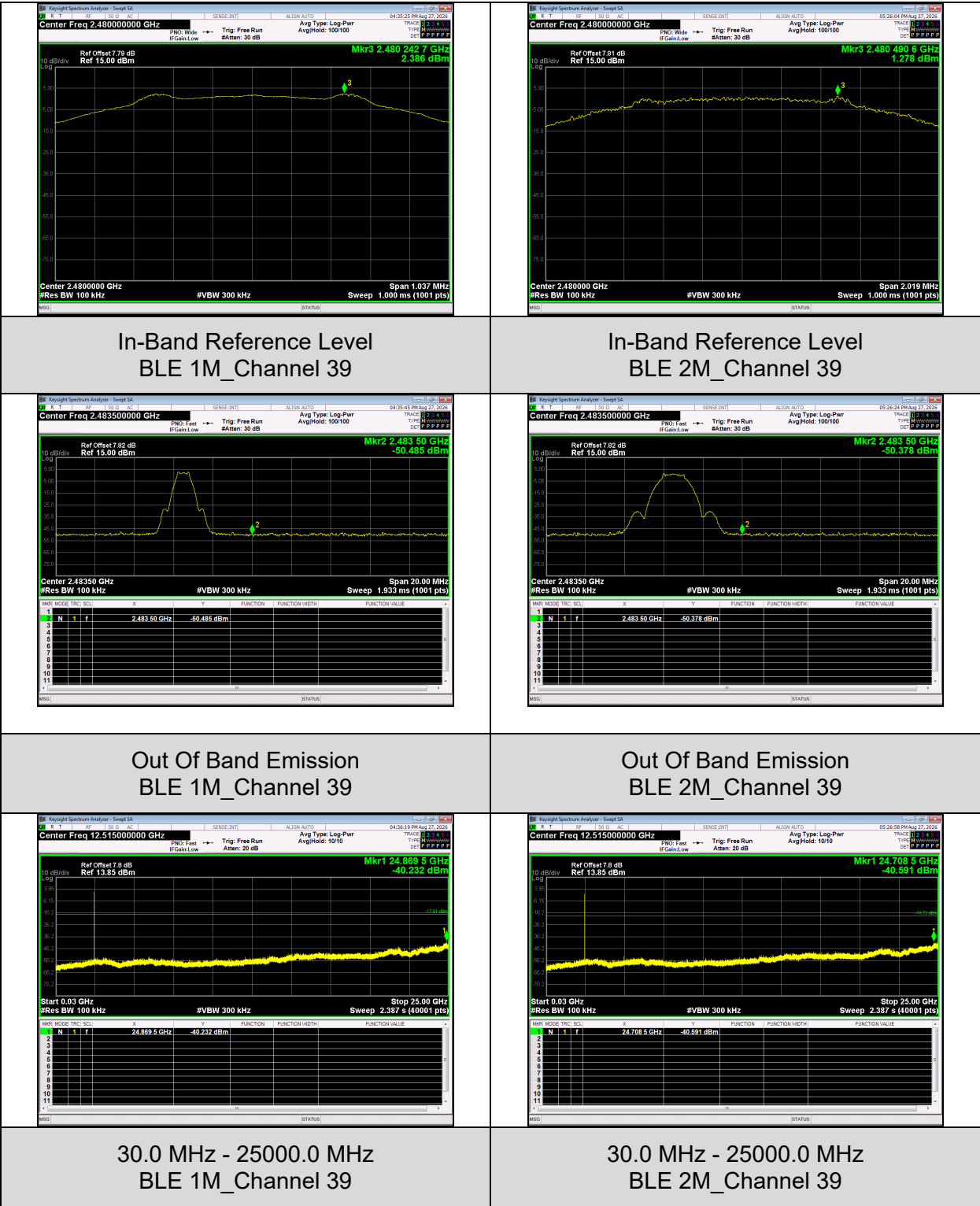
The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.6 TEST RESULTS

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Verdict
BLE 1M	0	2398.42	-47.737	-17.18	PASS
		2400.00	-49.849	-17.18	PASS
	19	24801.5	-40.032	-17.18	PASS
	39	24774.7	-41.568	-17.80	PASS
		2483.50	-50.485	-17.61	PASS
BLE 2M	0	24869.5	-40.232	-17.61	PASS
		2400.00	-32.244	-18.33	PASS
	19	24802.1	-40.670	-18.33	PASS
	39	24800.9	-41.270	-19.07	PASS
		2483.50	-50.378	-18.72	PASS







9 POWER SPECTRAL DENSITY TEST

9.1 LIMIT

FCC Part15, Subpart C (15.247) & RSS-247		
Section	Test Item	Limit
15.247(e) RSS-247 6.3.1 (b)	Power Spectral Density	8 dBm (in any 3 kHz)

9.2 TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

- Set analyzer center frequency to DTS channel center frequency.
- Set the span >1.5 times the DTS bandwidth.
- Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

9.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2027/05/10
2	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

9.4 TEST SETUP

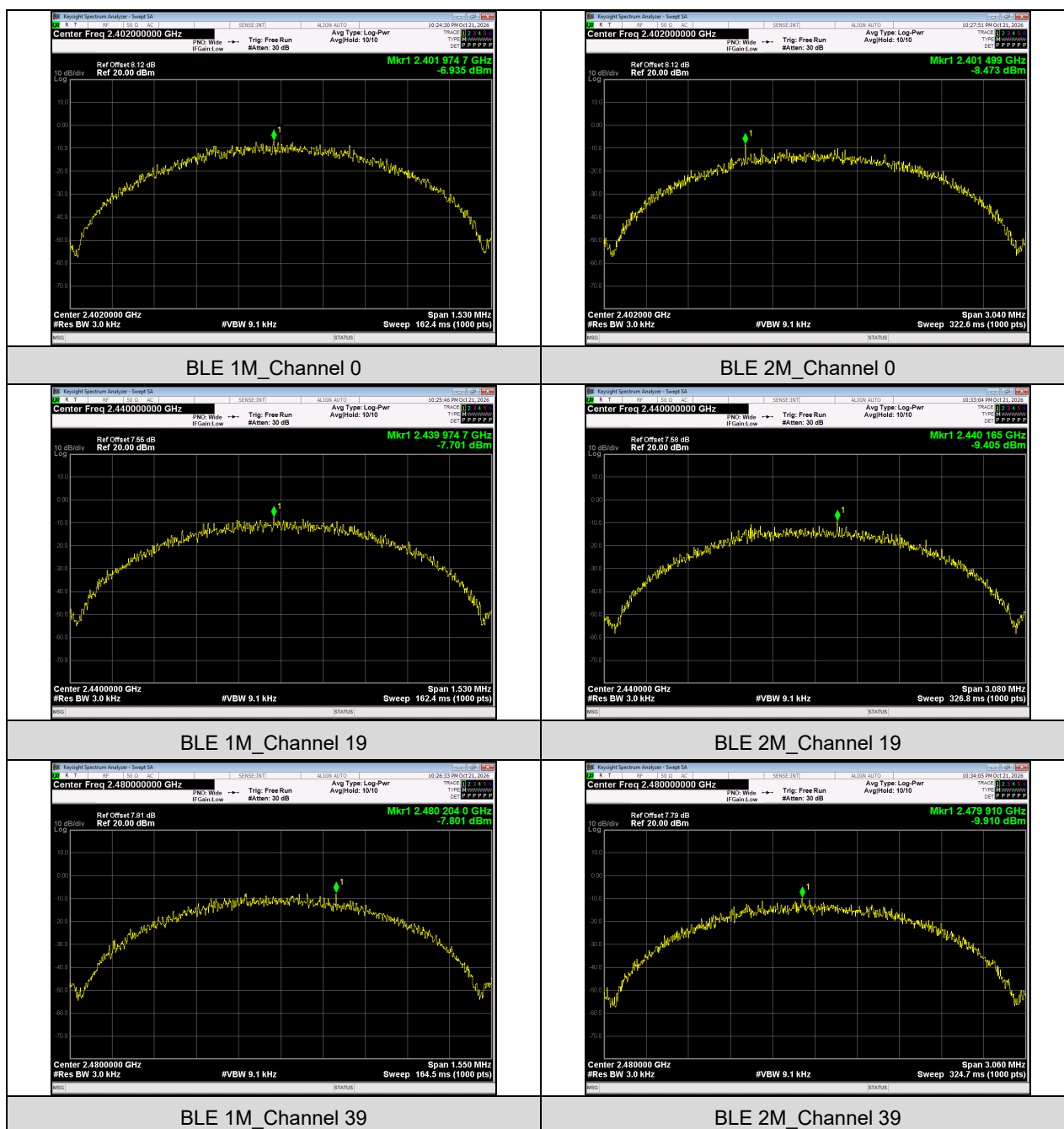


9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

9.6 TEST RESULTS

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	0	-6.93	≤8	PASS
BLE 1M	19	-7.70	≤8	PASS
BLE 1M	39	-7.80	≤8	PASS
BLE 2M	0	-8.47	≤8	PASS
BLE 2M	19	-9.40	≤8	PASS
BLE 2M	39	-9.91	≤8	PASS



10 FREQUENCY STABILITY MEASUREMENT

10.1 LIMIT

RSS-Gen			
Section	Test Item	Limit	Frequency Range (MHz)
RSS-Gen 5.3	Frequency Stability	Specified in the user's manual	2402-2480

10.2 TEST PROCEDURE

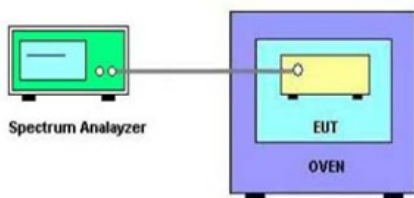
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	3 kHz
VBW	10 kHz
Detector	Peak,
Trace mode	max hold
Sweep Time	Auto

10.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2027/05/10
2	RF Cable	Mi-cable	C10-01-01-1	100309	N/A
3	Temperature conditioning	Guan Jian.HTH1000	-20-130°C	GJ1000-10D001	N/A
4	DC Power Supply	G.KE	IPR-10010D	010931954	N/A

10.4 TEST SETUP



10.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

10.6 TEST RESULTS

	Temperature vs. Frequency Stability	
Voltage	Temperature	Measurement Frequency (MHz)
3.7Vdc	(°C)	2402
	-20	2402.0036
	+20	2402.0036
	+50	2402.0036
3.1Vdc	+20	2402.0036
Max. Deviation (MHz)		0.0036
Max. Deviation (ppm)		1.5

Note: 3.1Vdc is the end point voltage, and products below 3.1Vdc will cease working.

END OF TEST REPORT