

FCC TEST REPORT

FCC ID:2A4UH-SRT4

Report Number..... : ZKT-220328L1923

Date of Test..... Feb. 24, 2022 to Apr. 02, 2022

Date of issue..... Apr. 06, 2022

Total number of pages..... 101

Test Result..... : PASS

Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.Address 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial
Avenue, Fuhai Street, Bao'an District, Shenzhen, China**Applicant's name** : Santos Electronics

Address : 775 Columbia Street, Brea, CA92821, United States

Manufacturer's name : Shanghai Liansheng Technology Development Co., Ltd.

Address : #2131, Building 5, No.397 Jiaozhou Road Jingan District Shanghai

Test specification:Standard..... FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2013

Test procedure..... : /

Non-standard test method : N/A

Test Report Form No..... : TRF-EL-110_V0**Test Report Form(s) Originator**..... : ZKT Testing**Master TRF** : Dated: 2021-09-18

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name..... : 4-ZONE STREAMING MEDIA SERVER

Trademark : OSD BLACK

Model/Type reference..... : SRT4

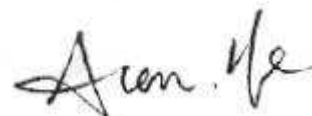
Ratings..... : DC 12V/1.5A from adapter

Testing procedure and testing location:

Testing Laboratory.....: **Shenzhen ZKT Technology Co., Ltd.**

Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Tested by (name + signature).....: Alen He



Reviewer (name + signature).....: Joe Liu



Approved (name + signature).....: Lake Xie



Table of Contents

	Page
1. VERSION	5
2. SUMMARY OF TEST RESULTS	6
2.1 TEST FACILITY	7
2.2 MEASUREMENT UNCERTAINTY	7
3. GENERAL INFORMATION	8
3.1 GENERAL DESCRIPTION OF EUT	8
3.2 DESCRIPTION OF TEST MODES	9
3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	9
3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	10
3.5EQUIPMENTS LIST FOR ALL TEST ITEMS	11
4. EMC EMISSION TEST	12
4.1 CONDUCTED EMISSION MEASUREMENT	12
4.1.1 POWER LINE CONDUCTED EMISSION Limits	12
4.1.2 TEST PROCEDURE	12
4.1.3 DEVIATION FROM TEST STANDARD	12
4.1.4 TEST SETUP	13
4.1.5 EUT OPERATING CONDITIONS	13
4.1.6 TEST RESULT	14
4.2 RADIATED EMISSION MEASUREMENT	18
4.2.1 RADIATED EMISSION LIMITS	18
4.2.2 TEST PROCEDURE	18
4.2.3 DEVIATION FROM TEST STANDARD	19
4.2.4 TEST SETUP	19
4.2.5 EUT OPERATING CONDITIONS	20
4.2.6 TEST RESULTS	20
5.RADIATED BAND EMISSIONMEASUREMENT	27
5.1 TEST REQUIREMENT:	27
5.2 TEST PROCEDURE	27
5.3 DEVIATION FROM TEST STANDARD	27
5.4 TEST SETUP	28
5.5 EUT OPERATING CONDITIONS	28
5.6 TEST RESULT	29
6.POWER SPECTRAL DENSITY TEST	30
6.1 APPLIED PROCEDURES / LIMIT	30
6.2 TEST PROCEDURE	30
6.3 DEVIATION FROM STANDARD	30
6.4 TEST SETUP	30
6.5 EUT OPERATION CONDITIONS	30

6.6 TEST RESULT	31
7. CHANNEL BANDWIDTH& 99% OCCUPY BANDWIDTH	57
7.1 APPLIED PROCEDURES / LIMIT	57
7.2 TEST PROCEDURE	57
7.3 DEVIATION FROM STANDARD	57
7.4 TEST SETUP	57
7.5 EUT OPERATION CONDITIONS	57
7.6 TEST RESULT	58
8. PEAK OUTPUT POWER TEST	75
8.1 APPLIED PROCEDURES/LIMIT	75
8.2 TEST PROCEDURE	75
8.3 DEVIATION FROM STANDARD	75
8.4 TEST SETUP	75
8.5 EUT OPERATION CONDITIONS	75
8.6 TEST RESULT	76
9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION	77
9.1 APPLICABLE STANDARD	77
9.2 TEST PROCEDURE	77
9.3 DEVIATION FROM STANDARD	77
9.4 TEST SETUP	77
9.5 EUT OPERATION CONDITIONS	77
9.6 TEST RESULTS	77
10. ANTENNA REQUIREMENT	100
11. TEST SETUP PHOTO	101
12. EUT CONSTRUCTIONAL DETAILS	101

1. VERSION

Report No.	Version	Description	Approved
ZKT-220328L1923	Rev.01	Initial issue of report	Apr. 06, 2022

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
FCC part 15.203/15.247 (c)	Antenna requirement	PASS	
FCC part 15.207	AC Power Line Conducted Emission	PASS	
FCC part 15.247 (b)(3)	Conducted Peak Output Power	PASS	
FCC part 15.247 (a)(2)	Channel Bandwidth& 99% OCB	PASS	
FCC part 15.247 (e)	Power Spectral Density	PASS	
FCC part 15.247(d)	Conducted Unwanted emissions and Bandedge	PASS	
FCC part 15.205/15.209	Radiated Emission and Restricted Bands	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299

IC Registered No.: 27033

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power conducted	$\pm 0.16\text{dB}$
3	Spurious emissions conducted	$\pm 0.21\text{dB}$
4	All emissions radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	4-ZONE STREAMING MEDIA SERVER
Test Model No.:	SRT4
Sample ID:	ZKT220328L1923-1#
Serial No.:	N/A
Model Different.:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Sample(s) Status:	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20):11 802.11n(HT40):7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum(DSSS) 802.11g/802.11n(H20)/802.11n(HT40): Orthogonal Frequency Division Multiplexing(OFDM)
Antenna Type:	Internal Antenna
Antenna gain:	Ant A:2.15dBi Ant B:2.15dBi Ant C:2.15dBi Ant D:2.15dBi
Directional Gain:	$2.15+10*\log(4)=8.17\text{dBi}$
Power supply:	DC 12V/1.5A from adapter
Adapter 1 Information	Manufacturer:SHENZHEN FUJIA APPLIANCE CO., LTD Model: FJ-SW126G1201500U Input: 100-240V~ 50/60Hz 0.6A Max Output:DC 12V/1.5A
Adapter 2 Information	Manufacturer:Shenzhen Guijin Technology Co., Ltd. Model: AK18WG-1200150U Input: 100-240V~ 50/60Hz 0.5A Output:DC 12V/1.5A

Page 6 of 10

Operation Frequency each of channel							
Channel	Frequency	Chann el	Frequency	Chann el	Frequency	Chann el	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)	
	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: During the test, the duty cycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:				
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.				
Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

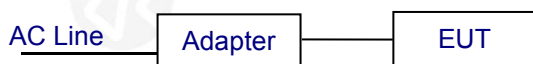
Test Software	DutApiMimoBtFmBrdigeEth.exe
Power level setup	<10dBm

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

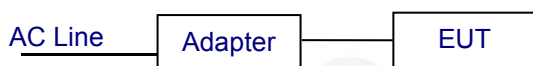
Conducted Emission



Radiated Emission



Conducted Spurious



3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	4-ZONE STREAMING MEDIA SERVER	OSD BLACK	SRT4	N/A	EUT
AE-1	Notebook	lenovo	B40-80	MP07F6JD	AE

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

3.5EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation & RF Conducted Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY45109572	Sep. 21, 2021	Sep. 20, 2022
2	Spectrum Analyzer (1GHz-40GHz)	Agilent	E4446A	100363	Sep. 21, 2021	Sep. 20, 2022
3	Test Receiver (9kHz-7GHz)	R&S	ESC17	101169	Sep. 21, 2021	Sep. 20, 2022
4	Bilog Antenna (30MHz-1400MHz)	Schwarzbeck	VULB9168	00877	Sep. 21, 2021	Sep. 20, 2022
5	Horn Antenna (1GHz-18GHz)	SCHWARZBEC K	BBHA9120D	1541	Sep. 21, 2021	Sep. 20, 2022
6	Horn Antenna (18GHz-40GHz)	A.H. System	SAS-574	588	Sep. 21, 2021	Sep. 20, 2022
7	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	N/A	Sep. 21, 2021	Sep. 20, 2022
8	Amplifier (1GHz-40GHz)	全聚达	DLE-161	097	Sep. 21, 2021	Sep. 20, 2022
9	Loop Antenna (9KHz-30MHz)	SCHWARZBEC K	FMZB1519B	014	Sep. 21, 2021	Sep. 20, 2022
10	RF cables1 (9kHz-30MHz)	N/A	9kHz-30MHz	N/A	Sep. 21, 2021	Sep. 20, 2022
11	RF cables2 (30MHz-1GHz)	N/A	30MHz-1GHz	N/A	Sep. 21, 2021	Sep. 20, 2022
12	RF cables3 (1GHz-40GHz)	N/A	1GHz-40GHz	N/A	Sep. 21, 2021	Sep. 20, 2022
13	CMW500 Test	R&S	CMW500	106504	Sep. 21, 2021	Sep. 20, 2022
14	ESG Signal Generator	Agilent	E4421B	GB40051203	Sep. 21, 2021	Sep. 20, 2022
15	Signal Generator	Agilent	N5182A	MY47420215	Sep. 21, 2021	Sep. 20, 2022
16	Power Meter	Anritsu	ML2495A	N/A	Sep. 21, 2021	Sep. 20, 2022
17	D.C. Power Supply	LongWei	TPR-6405D	\	\	\
18	Software	Audix	E3	6.101223a	\	\

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	Sep. 21, 2021	Sep. 20, 2022
2	LISN	CYBERTEK	EM5040A	E1850400149	Sep. 21, 2021	Sep. 20, 2022
3	Test Cable	N/A	C01	N/A	Sep. 21, 2021	Sep. 20, 2022
4	Test Cable	N/A	C02	N/A	Sep. 21, 2021	Sep. 20, 2022
5	EMI Test Receiver	R&S	ESRP3	101946	Sep. 21, 2021	Sep. 20, 2022
6	Absorbing Clamp	DZ	ZN23201	N/A	Sep. 21, 2021	Sep. 20, 2022
7	Software	Audix	E3	6.101223a	\	\

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

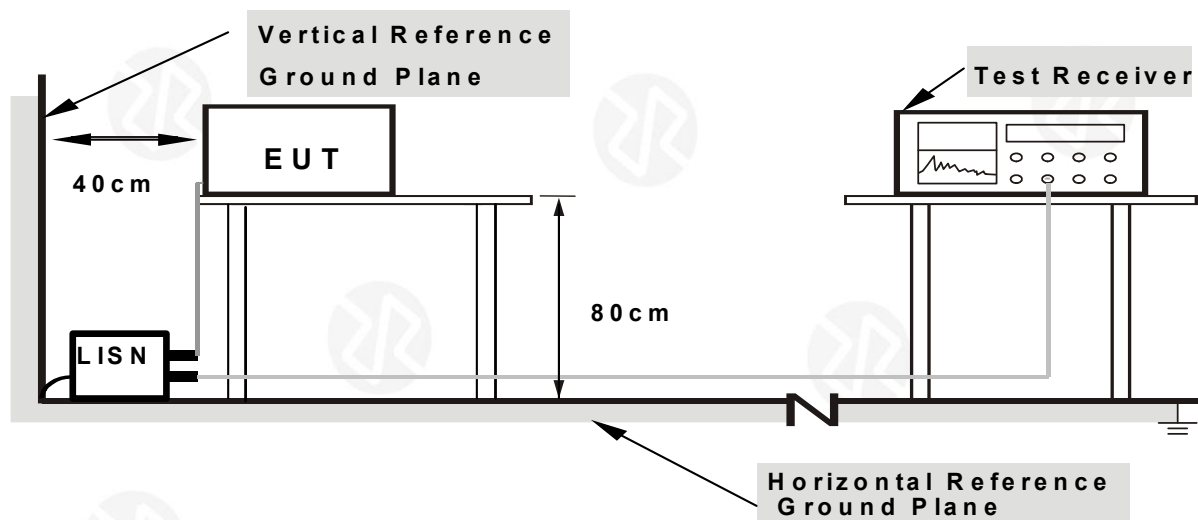
4.1.2 TEST PROCEDURE

- The EUT was placed 0.1 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

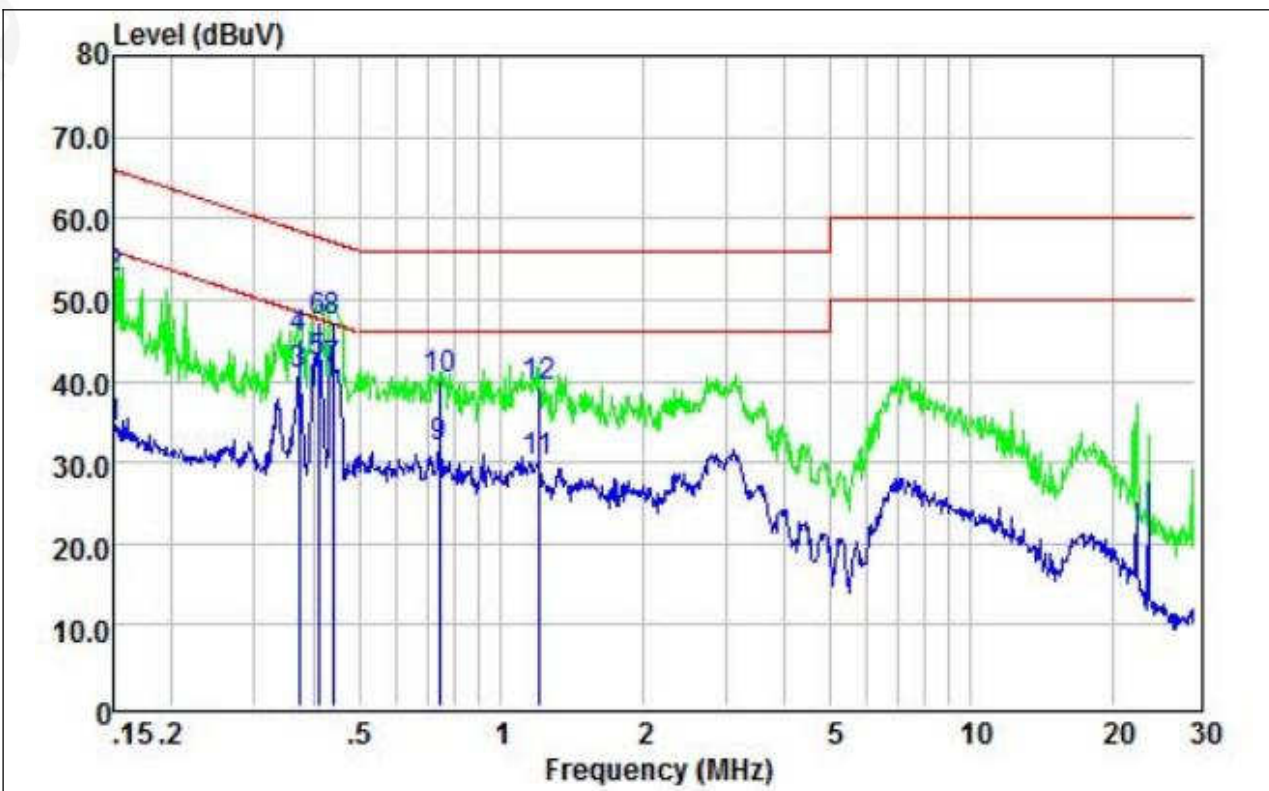
4.1.5 EUT OPERATING CONDITIONS

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.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

4.1.6 TEST RESULT

Temperature :	26°C	Relative Humidity:	54%
Pressure :	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz(With Adapter 1)	Test Model:	SRT4

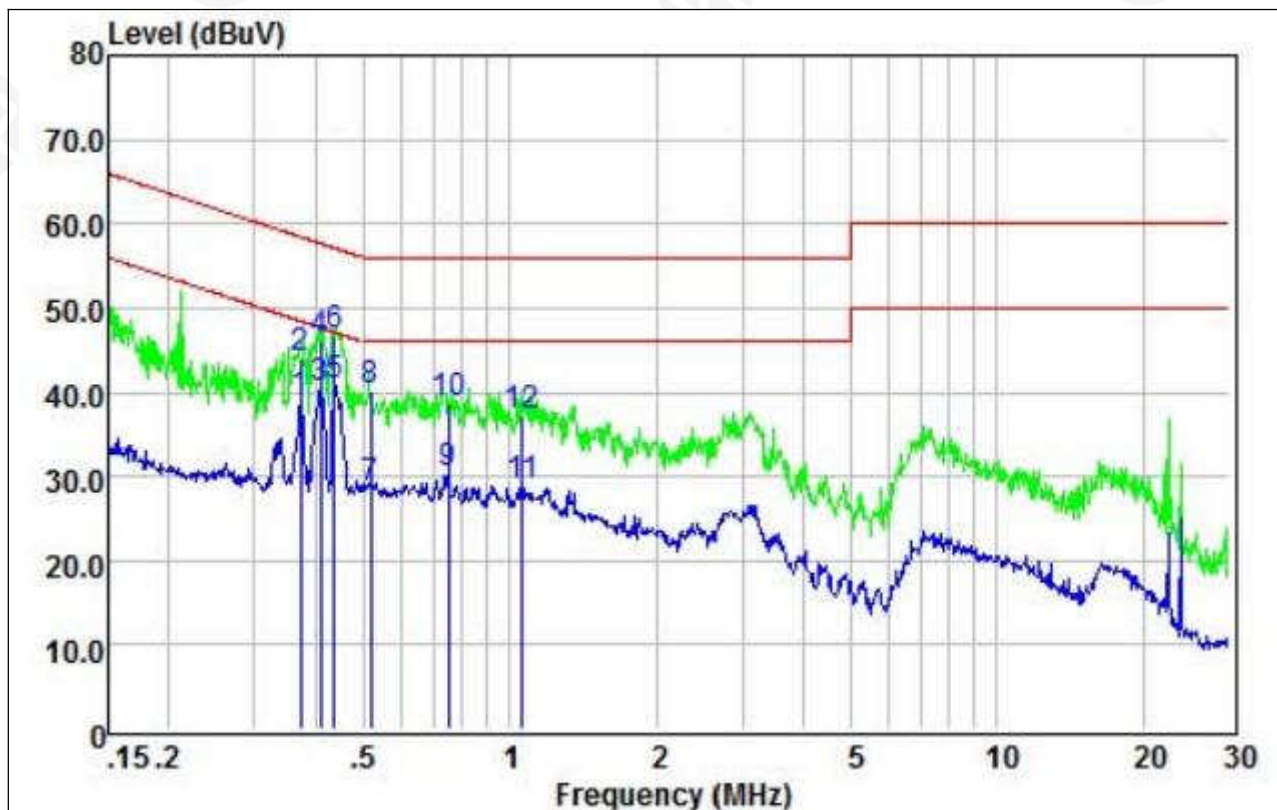


	Read Freq	LISN Level	Cable Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.15	24.55	9.63	0.05	34.23	55.96	-21.73	Average
2	0.15	42.95	9.63	0.05	52.63	65.96	-13.33	QP
3	0.37	30.89	9.66	0.05	40.60	48.43	-7.83	Average
4	0.37	35.56	9.66	0.05	45.27	58.43	-13.16	QP
5	0.41	32.48	9.67	0.05	42.20	47.64	-5.44	Average
6	0.41	37.55	9.67	0.05	47.27	57.64	-10.37	QP
7	0.44	31.67	9.68	0.05	41.40	47.07	-5.67	Average
8	0.44	37.48	9.68	0.05	47.21	57.07	-9.86	QP
9	0.74	22.15	9.64	0.05	31.84	46.00	-14.16	Average
10	0.74	30.47	9.64	0.05	40.16	56.00	-15.84	QP
11	1.20	20.45	9.60	0.06	30.11	46.00	-15.89	Average
12	1.20	29.72	9.60	0.06	39.38	56.00	-16.62	QP

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

Temperature :	26℃	Relative Humidity:	54%
Pressure :	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz(With Adapter 1)	Test Model:	SRT4

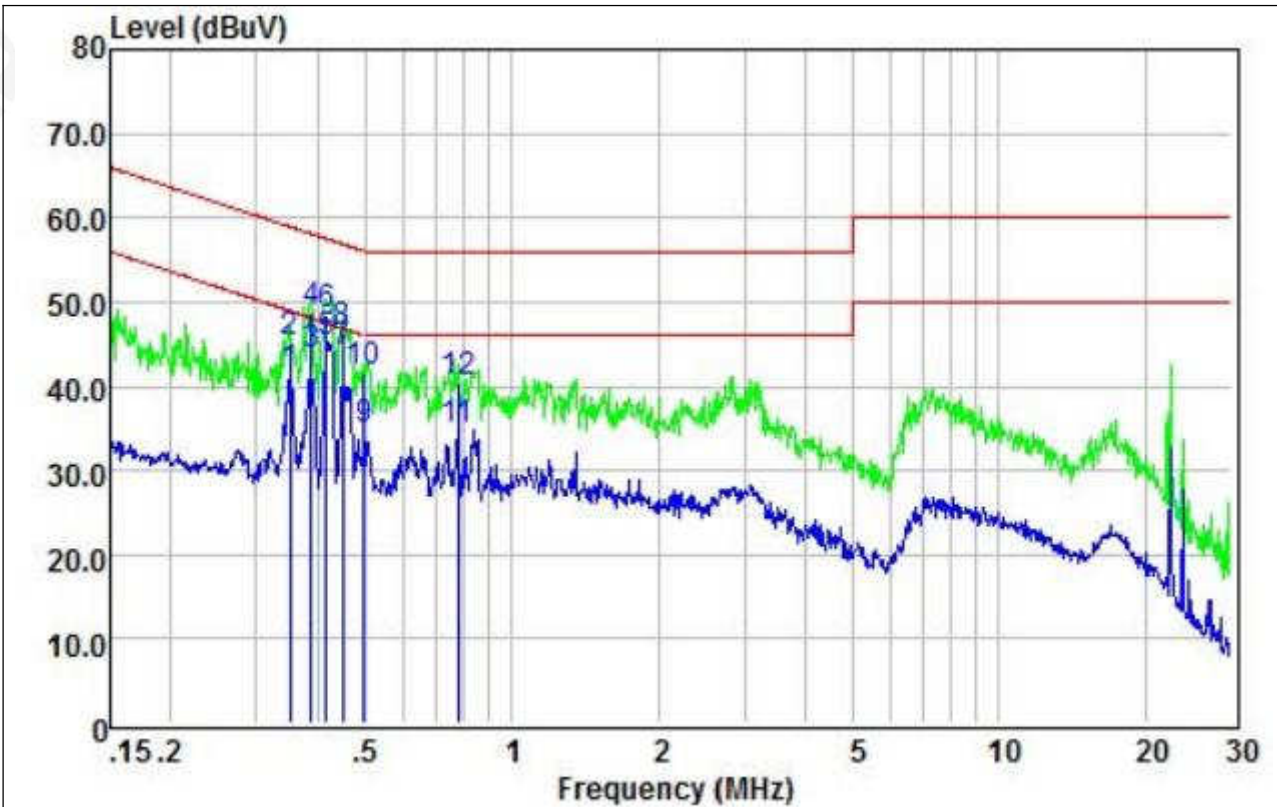


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.37	29.20	9.60	0.05	38.85	48.43	-9.58	Average
2	0.37	34.51	9.60	0.05	44.16	58.43	-14.27	QP
3	0.41	30.86	9.62	0.05	40.53	47.64	-7.11	Average
4	0.41	36.49	9.62	0.05	46.16	57.64	-11.48	QP
5	0.44	31.20	9.62	0.05	40.87	47.11	-6.24	Average
6	0.44	36.92	9.62	0.05	46.59	57.11	-10.52	QP
7	0.52	18.93	9.63	0.05	28.61	46.00	-17.39	Average
8	0.52	30.57	9.63	0.05	40.25	56.00	-15.75	QP
9	0.75	20.72	9.63	0.05	30.40	46.00	-15.60	Average
10	0.75	28.95	9.63	0.05	38.63	56.00	-17.37	QP
11	1.07	19.19	9.62	0.06	28.87	46.00	-17.13	Average
12	1.07	27.49	9.62	0.06	37.17	56.00	-18.83	QP

Notes:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Measurement Level = Reading level + Correct Factor

Temperature :	26℃	Relative Humidity:	54%
Pressure :	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz(With Adapter 2)	Test Model:	SRT4

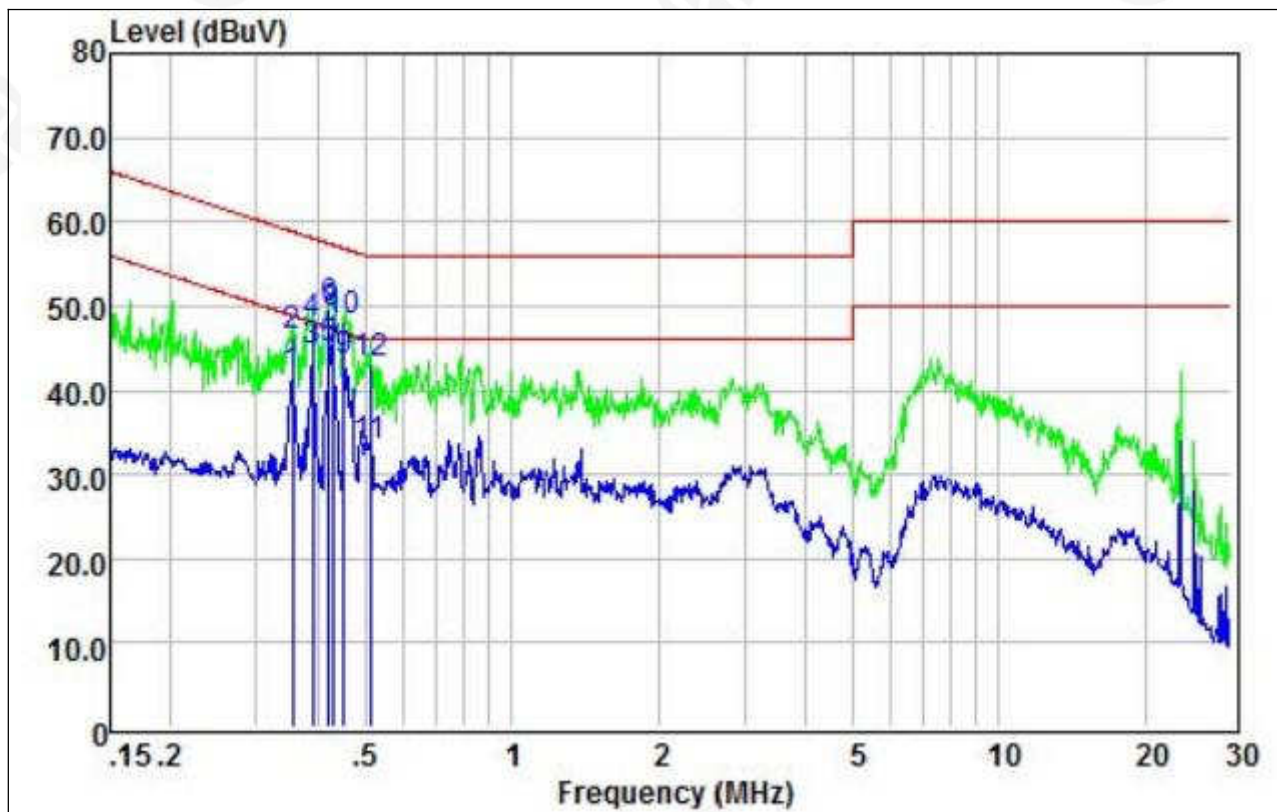


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.35	31.57	9.65	0.05	41.27	48.96	-7.69	Average
2	0.35	35.51	9.65	0.05	45.21	58.96	-13.75	QP
3	0.39	34.00	9.66	0.05	43.71	48.12	-4.41	Average
4	0.39	39.14	9.66	0.05	48.85	58.12	-9.27	QP
5	0.42	35.35	9.67	0.05	45.07	47.51	-2.44	Average
6	0.42	38.78	9.67	0.05	48.50	57.51	-9.01	QP
7	0.45	34.14	9.68	0.05	43.87	46.85	-2.98	Average
8	0.45	36.64	9.68	0.05	46.37	56.85	-10.48	QP
9	0.50	24.91	9.69	0.05	34.65	46.01	-11.36	Average
10	0.50	31.83	9.69	0.05	41.57	56.01	-14.44	QP
11	0.78	25.06	9.63	0.05	34.74	46.00	-11.26	Average
12	0.78	30.67	9.63	0.05	40.35	56.00	-15.65	QP

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

Temperature :	26℃	Relative Humidity:	54%
Pressure :	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz(With Adapter 2)	Test Model:	SRT4



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.36	31.94	9.59	0.05	41.58	48.83	-7.25	Average
2	0.36	36.72	9.59	0.05	46.36	58.83	-12.47	QP
3	0.39	34.81	9.61	0.05	44.47	48.03	-3.56	Average
4	0.39	38.19	9.61	0.05	47.85	58.03	-10.18	QP
5	0.42	35.26	9.62	0.05	44.93	47.42	-2.49	Average
6	0.42	40.14	9.62	0.05	49.81	57.42	-7.61	QP
7	0.43	34.49	9.62	0.05	44.16	47.24	-3.08	Average
8	0.43	39.31	9.62	0.05	48.98	57.24	-8.26	QP
9	0.45	33.81	9.63	0.05	43.49	46.80	-3.31	Average
10	0.45	38.48	9.63	0.05	48.16	56.80	-8.64	QP
11	0.51	23.67	9.63	0.05	33.35	46.00	-12.65	Average
12	0.51	33.46	9.63	0.05	43.14	56.00	-12.86	QP

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	1/T	Average

4.2.1 RADIATED EMISSION LIMITS

Frequencies (MHz)	Field Strength (micorvolts/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

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

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

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of variable-height antenna tower.

- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

Note:

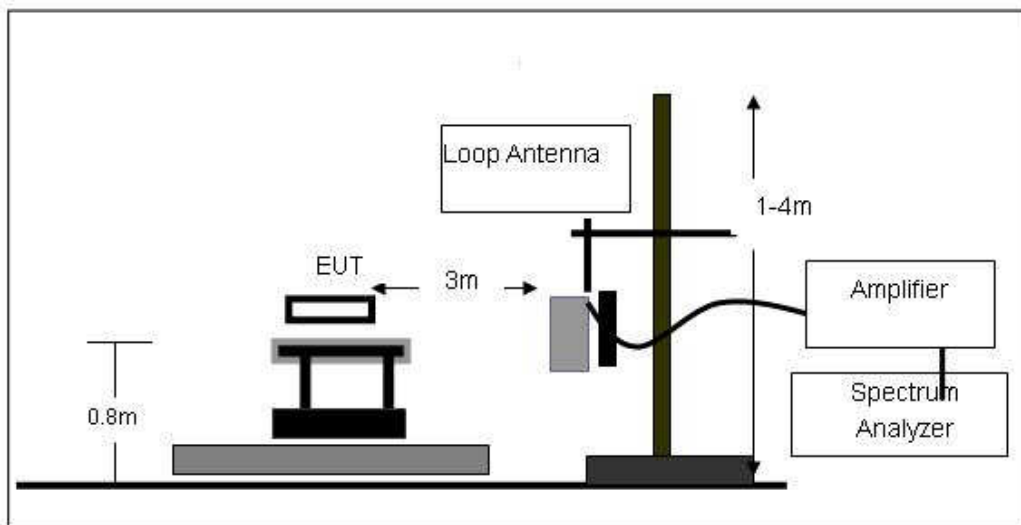
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

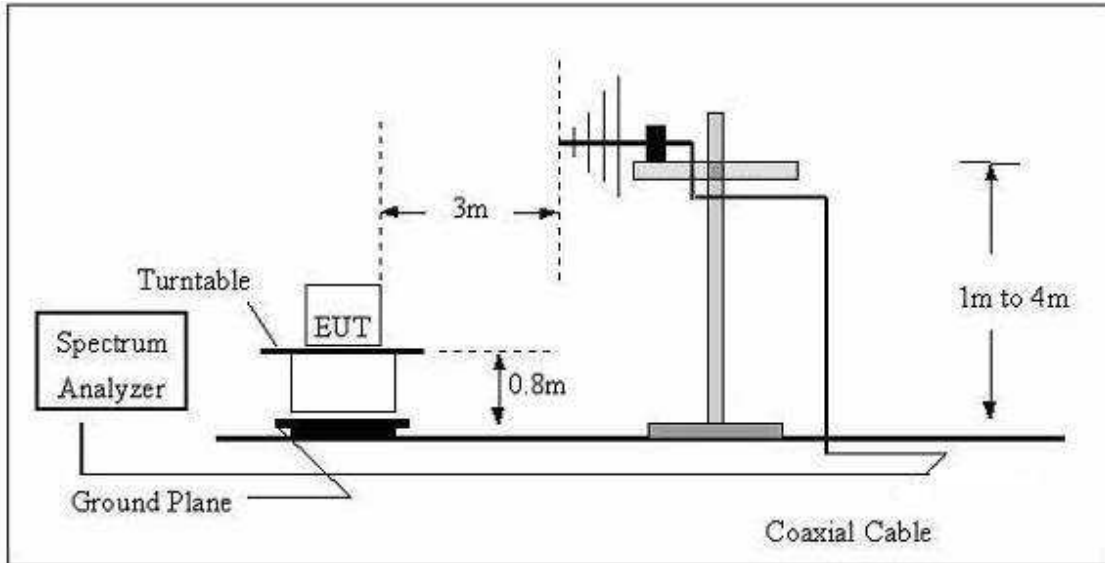
No deviation

4.2.4 TEST SETUP

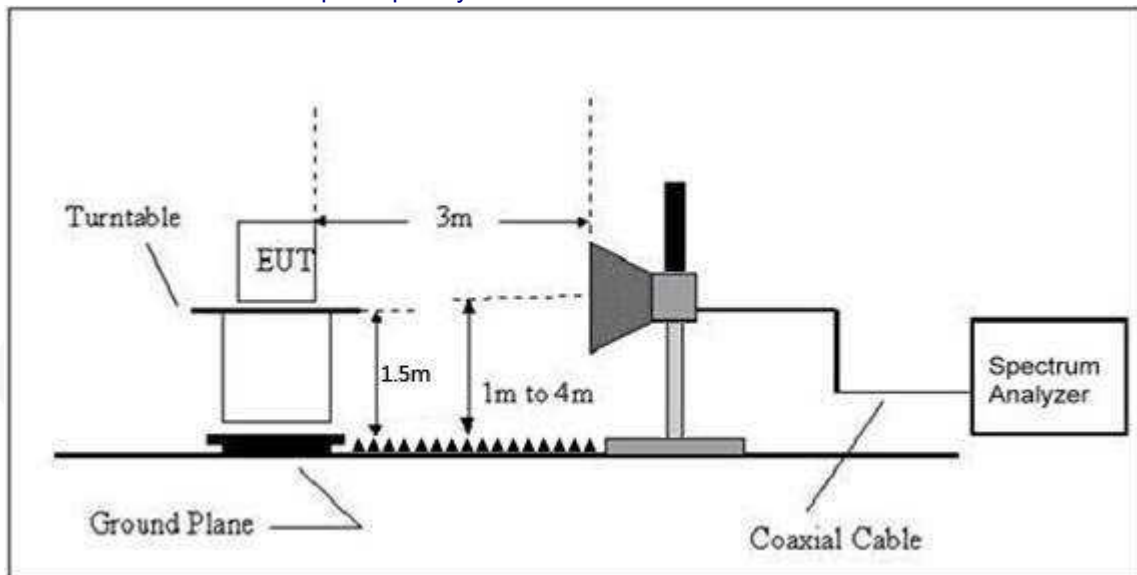
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

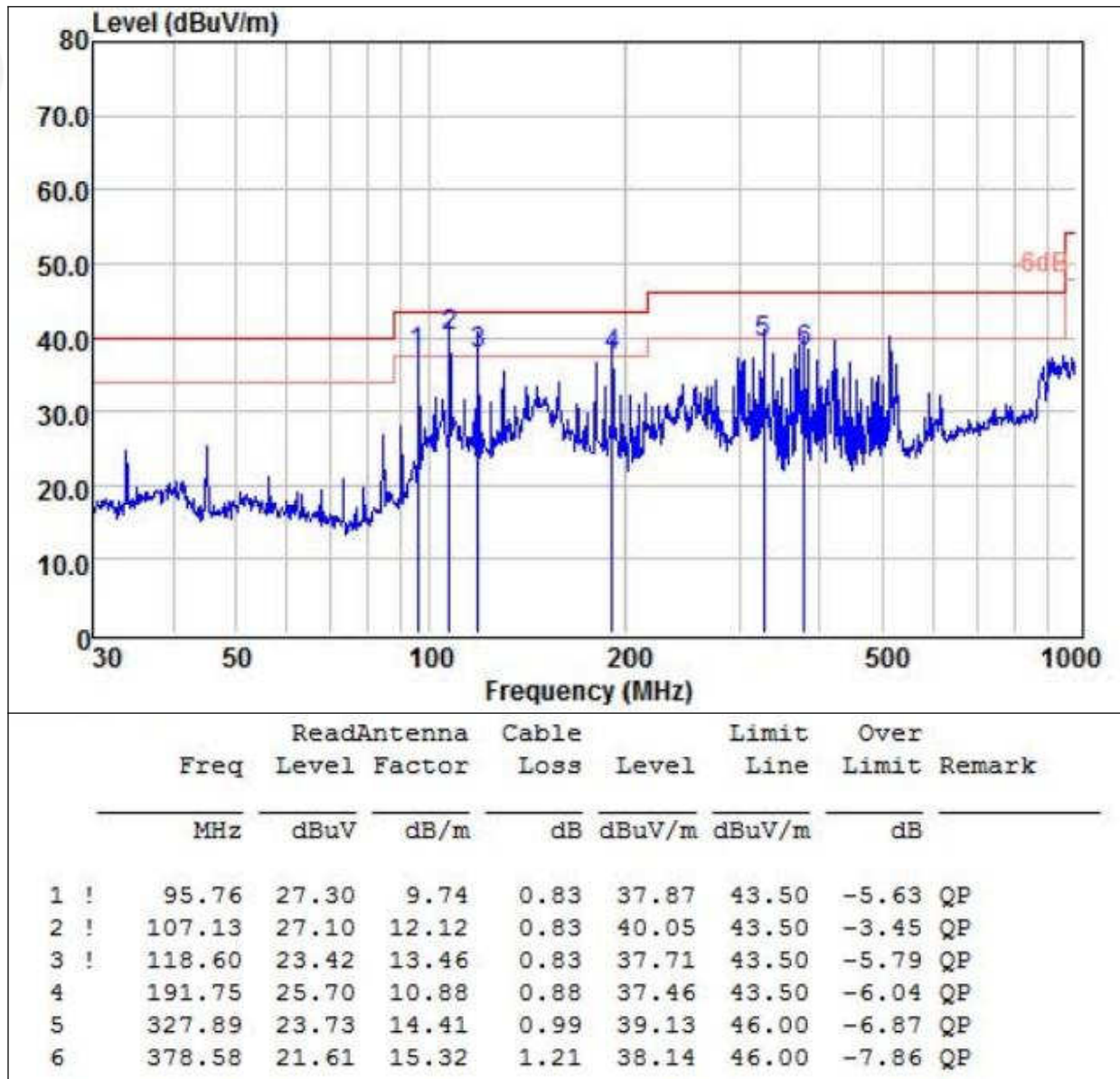
4.2.6 TEST RESULTS

Between 9KHz – 30MHz

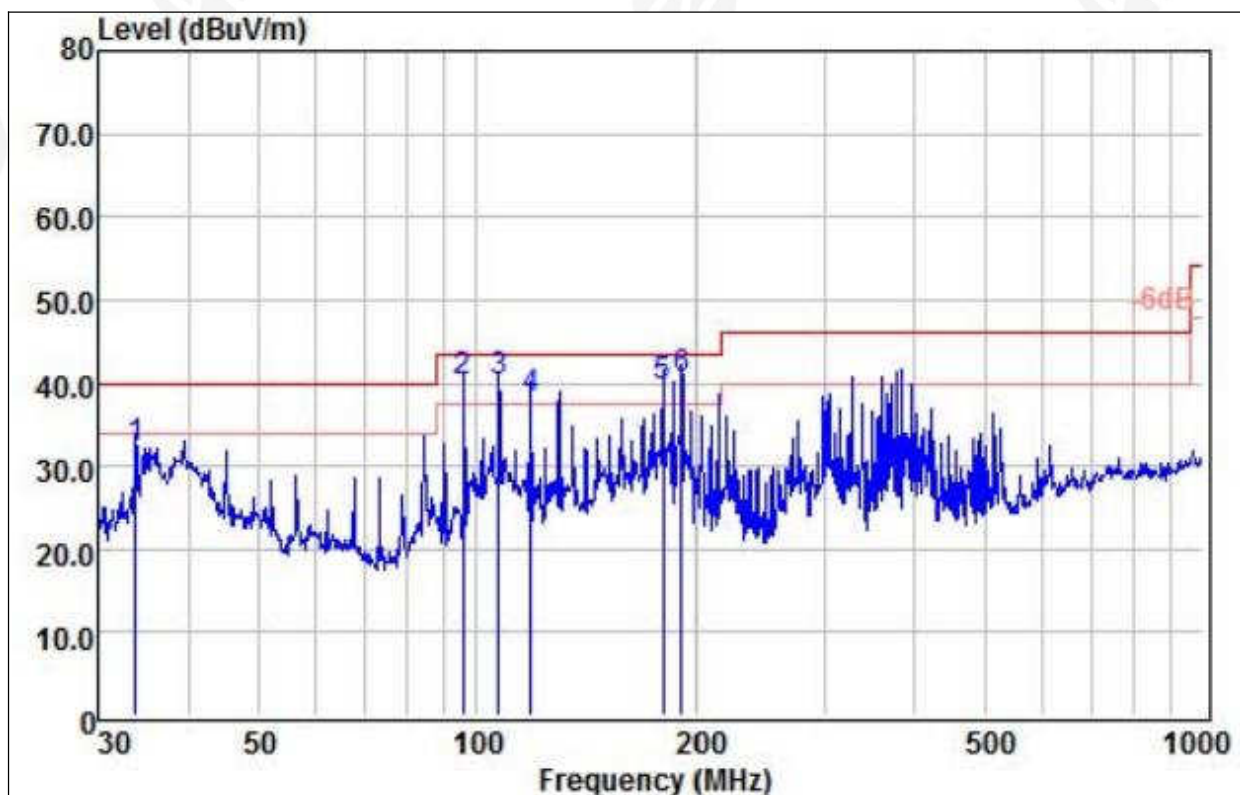
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

Between 30MHz – 1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz(With Adapter 1)	Test Model:	SRT4



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz(With Adapter 1)	Test Model:	SRT4

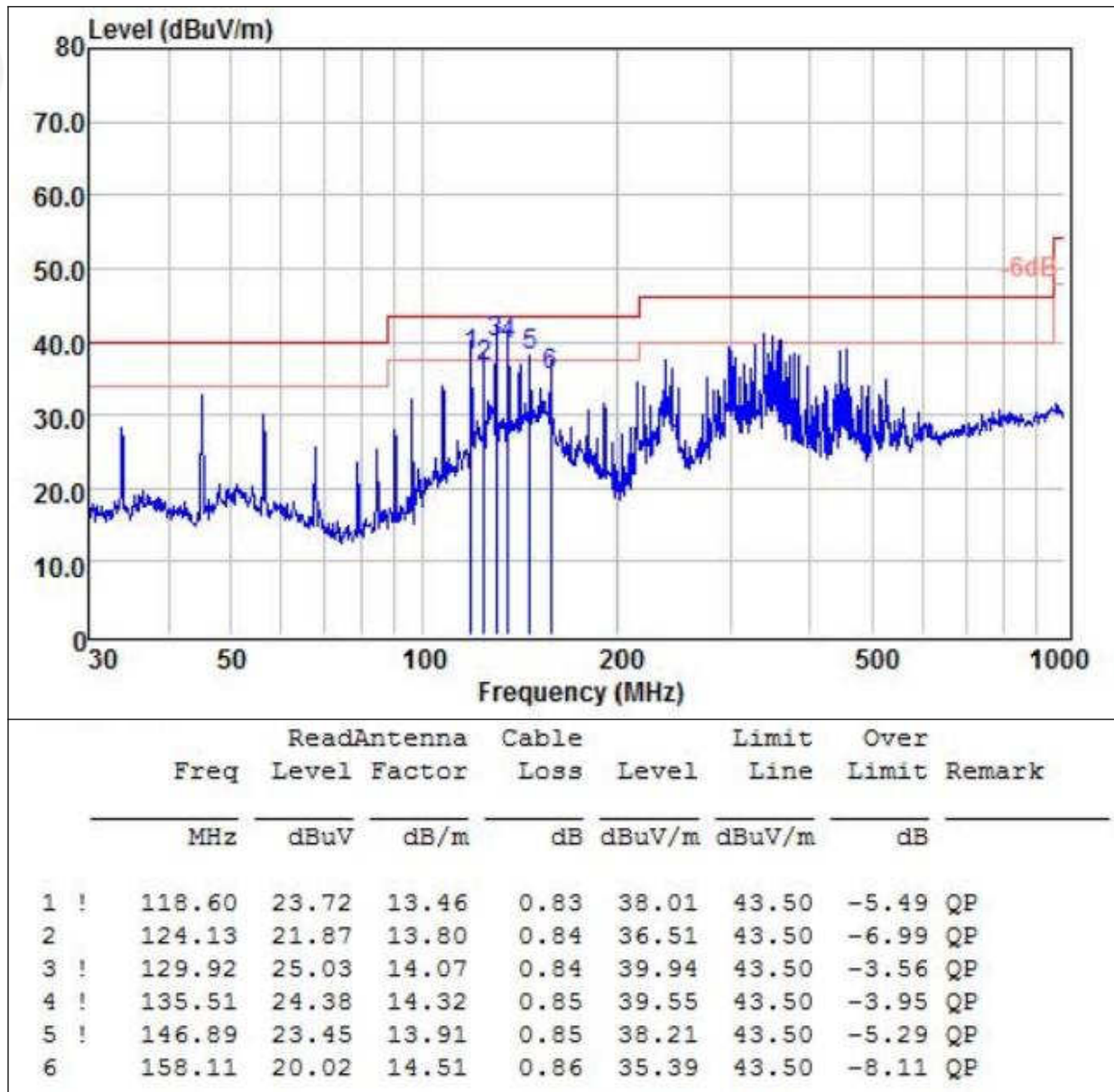


	Freq	ReadAntenna	Cable		Limit	Over	
	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB
1	33.80	18.97	12.58	0.46	32.01	40.00	-7.99 QP
2 !	95.76	29.66	9.74	0.83	40.23	43.50	-3.27 QP
3 !	107.13	27.12	12.12	0.83	40.07	43.50	-3.43 QP
4 !	118.60	23.87	13.46	0.83	38.16	43.50	-5.34 QP
5 !	180.65	26.09	12.69	0.87	39.65	43.50	-3.85 QP
6 !	191.75	28.60	10.88	0.88	40.36	43.50	-3.14 QP

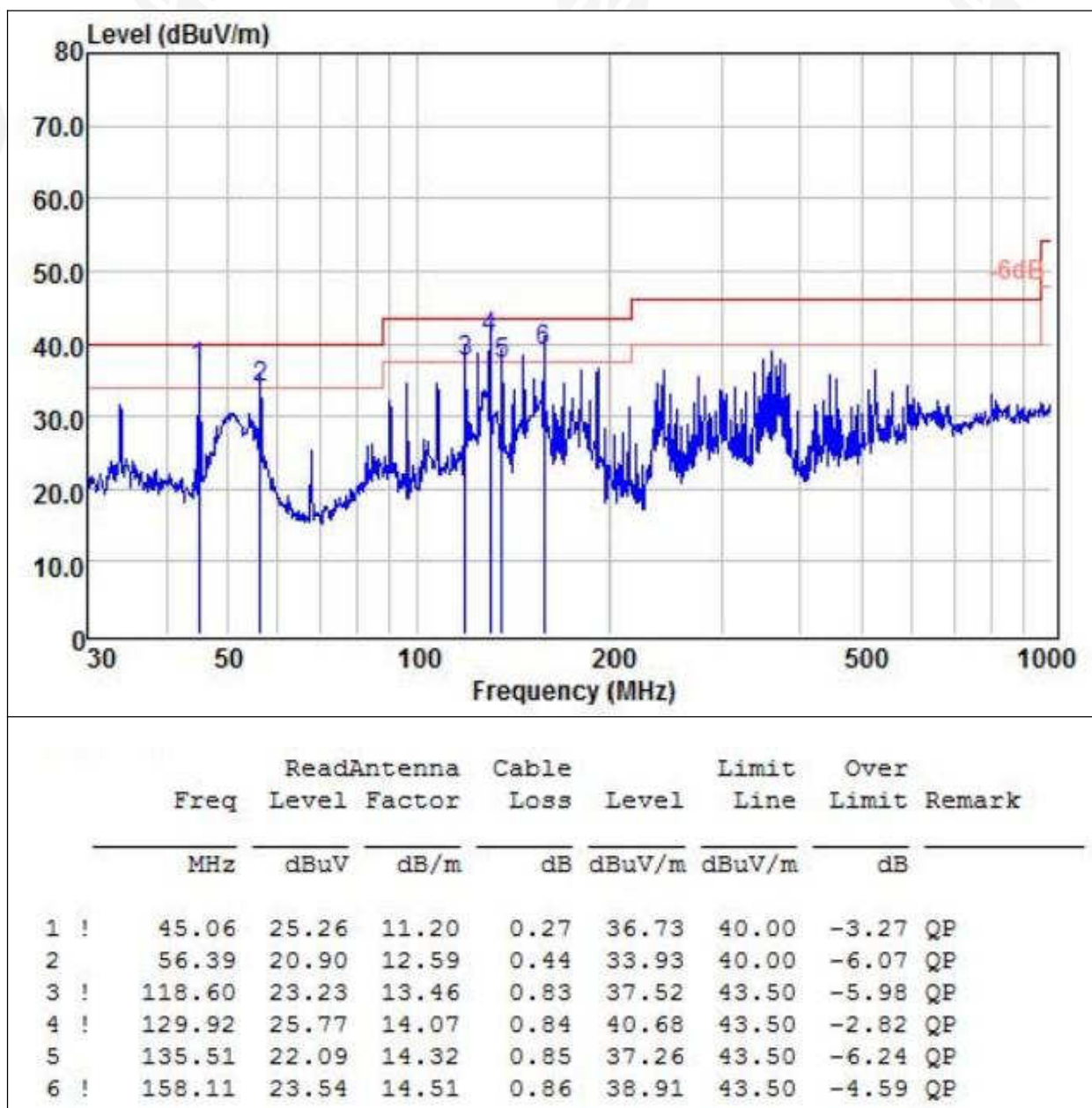
Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3.The test data shows only the worst case 802.11b mode

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz(With Adapter 2)	Test Model:	SRT4



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz(With Adapter 2)	Test Model:	SRT4



Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The test data shows only the worst case 802.11b mode

Record the worst test data for Antenna B in report.

Above 1 GHz Test Results (802.11b Worst Case):

1GHz~25GHz

802.11b

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detect or Type
Low Channel:2412MHz									
V	4824.00	59.73	30.55	5.77	24.66	59.61	74.00	-14.39	PK
V	4824.00	48.06	30.55	5.77	24.66	47.94	54.00	-6.06	AV
V	7236.00	58.29	30.33	6.32	24.55	58.83	74.00	-15.17	PK
V	7236.00	47.33	30.33	6.32	24.55	47.87	54.00	-6.13	AV
V	9648.00	56.93	30.85	7.45	24.69	58.22	74.00	-15.78	PK
V	9648.00	45.11	30.85	7.45	24.69	46.4	54.00	-7.6	AV
V	12060.00	54.16	31.02	8.99	25.57	57.7	74.00	-16.3	PK
V	12060.00	43.56	31.02	8.99	25.57	47.1	54.00	-6.9	AV
H	4824.00	58.49	30.55	5.77	24.66	58.37	74.00	-15.63	PK
H	4824.00	47.21	30.55	5.77	24.66	47.09	54.00	-6.91	AV
H	7236.00	56.29	30.33	6.32	24.55	56.83	74.00	-17.17	PK
H	7236.00	46.37	30.33	6.32	24.55	46.91	54.00	-7.09	AV
H	9648.00	55.12	30.85	7.45	24.69	56.41	74.00	-17.59	PK
H	9648.00	44.82	30.85	7.45	24.69	46.11	54.00	-7.89	AV
H	12060.00	54.13	31.02	8.99	25.57	57.67	74.00	-16.33	PK
H	12060.00	42.69	31.02	8.99	25.57	46.23	54.00	-7.77	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detect or Type
Middle Channel:2437MHz									
V	4874.00	58.94	30.55	5.77	24.66	58.82	74.00	-15.18	PK
V	4874.00	47.89	30.55	5.77	24.66	47.77	54.00	-6.23	AV
V	7311.00	57.82	30.33	6.32	24.55	58.36	74.00	-15.64	PK
V	7311.00	46.53	30.33	6.32	24.55	47.07	54.00	-6.93	AV
V	9748.00	56.31	30.85	7.45	24.69	57.6	74.00	-16.4	PK
V	9748.00	45.62	30.85	7.45	24.69	46.91	54.00	-7.09	AV
V	12185.00	54.29	31.02	8.99	25.57	57.83	74.00	-16.17	PK
V	12185.00	44.08	31.02	8.99	25.57	47.62	54.00	-6.38	AV
H	4874.00	58.41	30.55	5.77	24.66	58.29	74.00	-15.71	PK
H	4874.00	47.38	30.55	5.77	24.66	47.26	54.00	-6.74	AV
H	7311.00	57.04	30.33	6.32	24.55	57.58	74.00	-16.42	PK
H	7311.00	46.33	30.33	6.32	24.55	46.87	54.00	-7.13	AV
H	9748.00	55.83	30.85	7.45	24.69	57.12	74.00	-16.88	PK
H	9748.00	45.16	30.85	7.45	24.69	46.45	54.00	-7.55	AV
H	12185.00	54.19	31.02	8.99	25.57	57.73	74.00	-16.27	PK
H	12185.00	43.36	31.02	8.99	25.57	46.9	54.00	-7.1	AV

Page 26 of 10

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	58.36	30.55	5.77	24.66	58.24	74.00	-15.76	PK
V	4924.00	47.81	30.55	5.77	24.66	47.69	54.00	-6.31	AV
V	7386.00	56.93	30.33	6.32	24.55	57.47	74.00	-16.53	PK
V	7386.00	45.31	30.33	6.32	24.55	45.85	54.00	-8.15	AV
V	9848.00	55.21	30.85	7.45	24.69	56.5	74.00	-17.5	PK
V	9848.00	44.83	30.85	7.45	24.69	46.12	54.00	-7.88	AV
V	12310.00	53.87	31.02	8.99	25.57	57.41	74.00	-16.59	PK
V	12310.00	43.12	31.02	8.99	25.57	46.66	54.00	-7.34	AV
H	4924.00	57.89	30.55	5.77	24.66	57.77	74.00	-16.23	PK
H	4924.00	48.12	30.55	5.77	24.66	48.00	54.00	-6.00	AV
H	7386.00	56.32	30.33	6.32	24.55	56.86	74.00	-17.14	PK
H	7386.00	47.12	30.33	6.32	24.55	47.66	54.00	-6.34	AV
H	9848.00	55.28	30.85	7.45	24.69	56.57	74.00	-17.43	PK
H	9848.00	44.36	30.85	7.45	24.69	45.65	54.00	-8.35	AV
H	12310.00	54.27	31.02	8.99	25.57	57.81	74.00	-16.19	PK
H	12310.00	43.29	31.02	8.99	25.57	46.83	54.00	-7.17	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

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

4. The worst mode is 802.11b, only the worst data is recorded.

5. RADIATED BAND EMISSION MEASUREMENT

5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above	Peak	1MHz	3MHz	Peak
	1GHz	Average	1MHz	3MHz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

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

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel

Note:

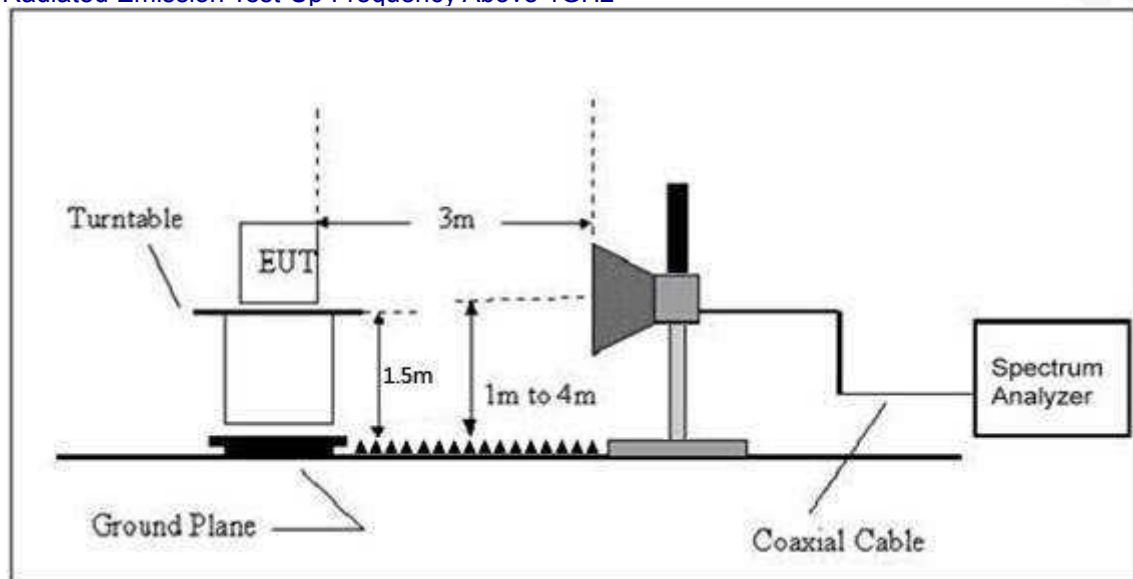
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.3 DEVIATION FROM TEST STANDARD

No deviation

5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULT

Pass

Record the worst test data for Antenna B in report.

We tested at 802.11b/802.11g/802.11n HT20/802.11n HT40 mode at the antenna single and recored the worst data 802.11b mode in report.

	Polar (H/V)	Frequenc y (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Detec tor Type	Result
802.11b	Low Channel 2412MHz									
	H	2390.00	58.44	30.22	4.85	23.98	57.05	74.00	PK	PASS
	H	2390.00	48.38	30.22	4.85	23.98	46.99	54.00	AV	PASS
	H	2400.00	57.43	30.22	4.85	23.98	56.04	74.00	PK	PASS
	H	2400.00	47.68	30.22	4.85	23.98	46.29	54.00	AV	PASS
	V	2390.00	57.34	30.22	4.85	23.98	55.95	74.00	PK	PASS
	V	2390.00	46.32	30.22	4.85	23.98	44.93	54.00	AV	PASS
	V	2400.00	56.82	30.22	4.85	23.98	55.43	74.00	PK	PASS
	V	2400.00	45.98	30.22	4.85	23.98	44.59	54.00	AV	PASS
	High Channel 2462MHz									
	H	2483.50	57.81	30.22	4.85	23.98	56.42	74.00	PK	PASS
	H	2485.50	47.32	30.22	4.85	23.98	45.93	54.00	AV	PASS
	H	2483.50	56.36	30.22	4.85	23.98	54.97	74.00	PK	PASS
	H	2485.50	47.21	30.22	4.85	23.98	45.82	54.00	AV	PASS
	V	2483.50	58.01	30.22	4.85	23.98	56.62	74.00	PK	PASS
	V	2485.50	47.11	30.22	4.85	23.98	45.72	54.00	AV	PASS
	V	2483.50	57.39	30.22	4.85	23.98	56.00	74.00	PK	PASS
	V	2485.50	46.32	30.22	4.85	23.98	44.93	54.00	AV	PASS

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit

6. POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



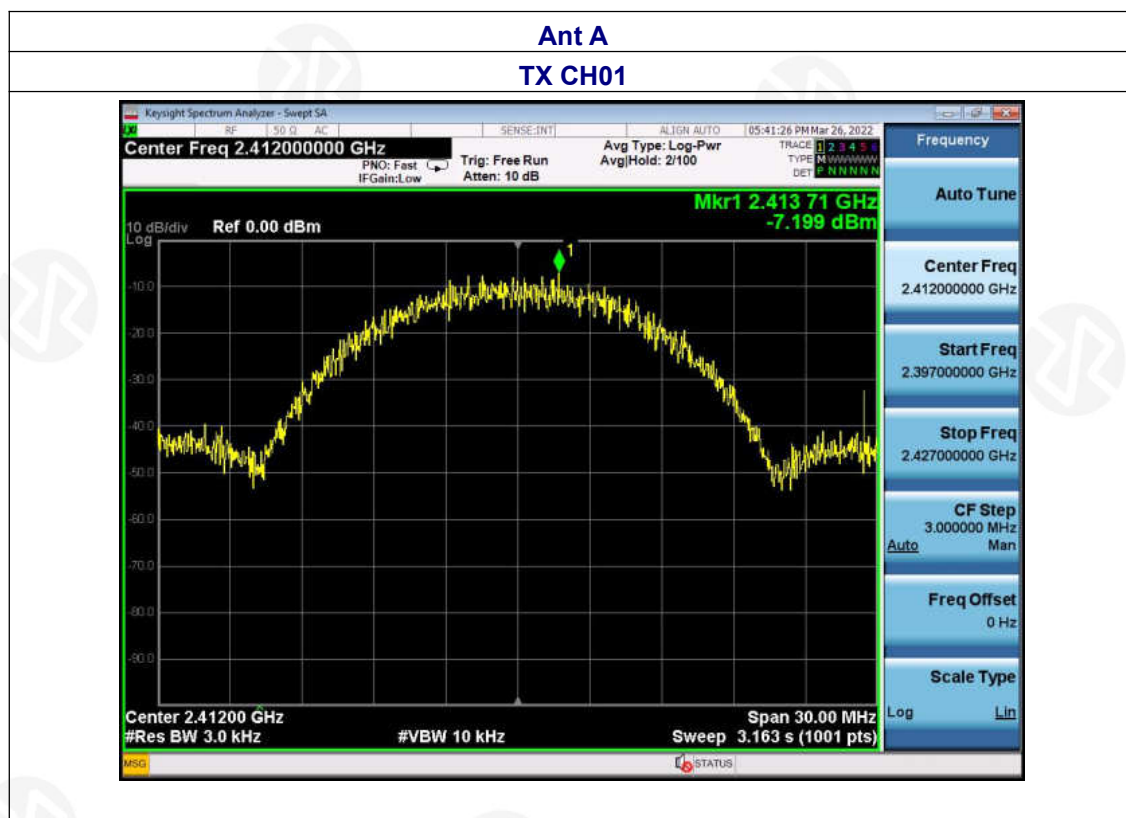
6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

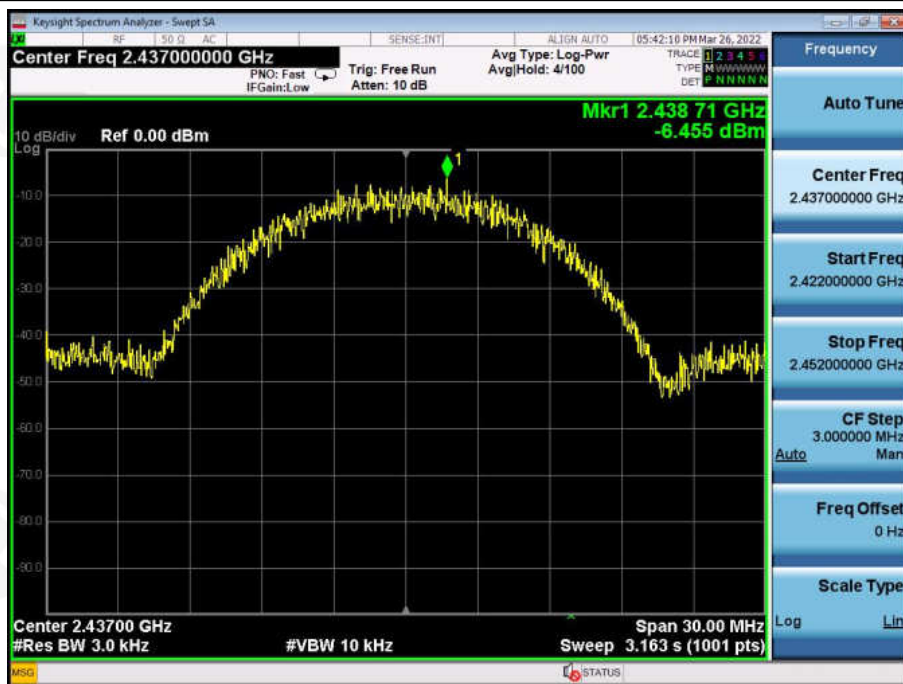
6.6 TEST RESULT

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX b Mode		

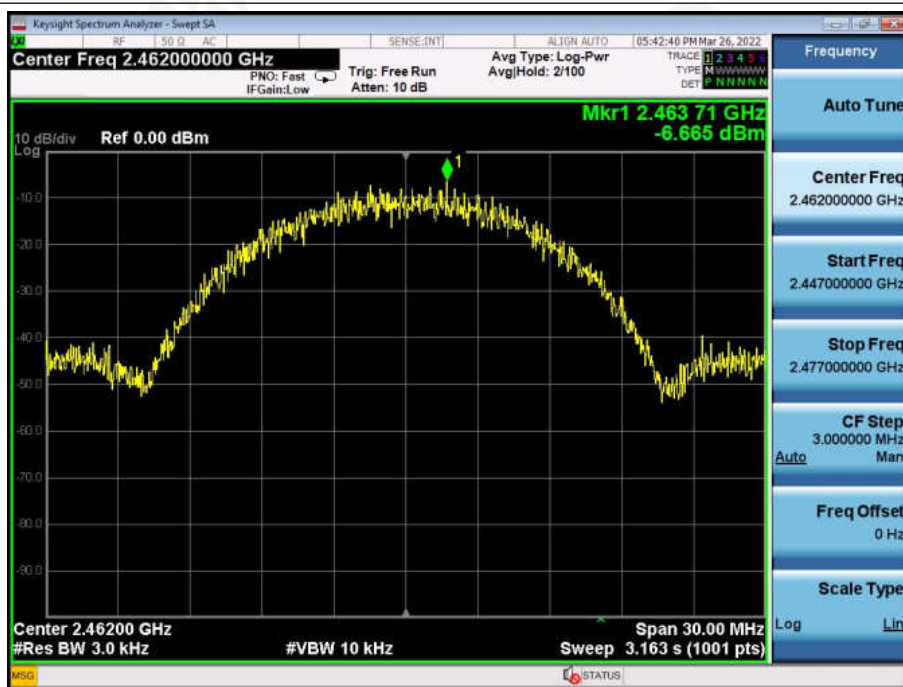
Frequency	Ant A	Ant B	Ant C	Ant D	Power Spectral Density Total (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Power Spectral Density (dBm/3kHz)	Power Spectral Density (dBm/3kHz)	Power Spectral Density (dBm/3kHz)	Power Spectral Density (dBm/3kHz)			
2412 MHz	-7.199	-6.704	-6.840	-7.087	/	8	PASS
2437 MHz	-6.455	-7.181	-6.877	-6.960	/	8	PASS
2462 MHz	-6.665	-6.564	-6.989	-6.820	/	8	PASS



TX CH06

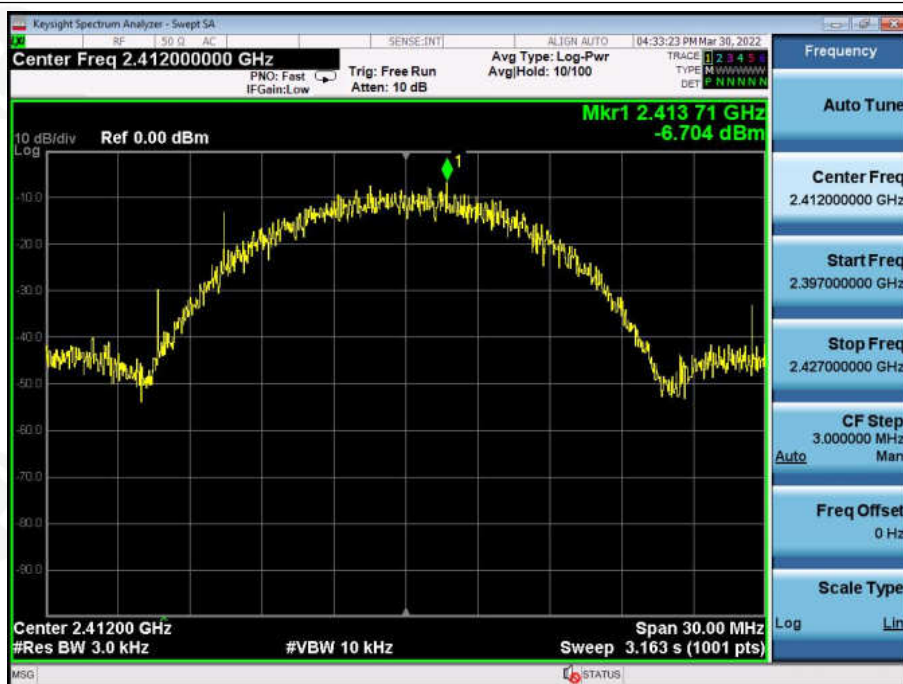


TX CH11

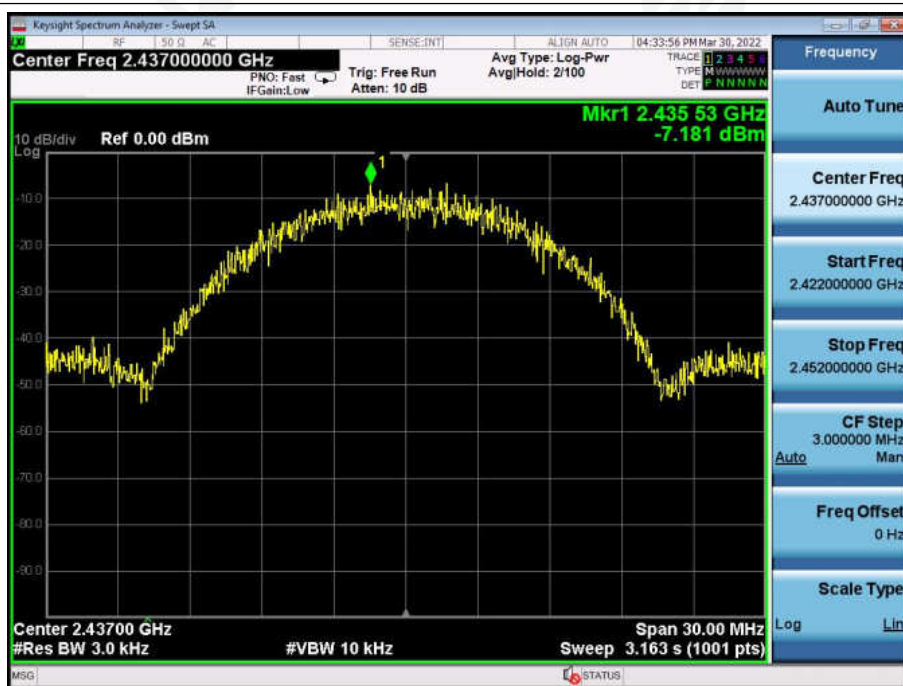


Ant B

TX CH01



TX CH06

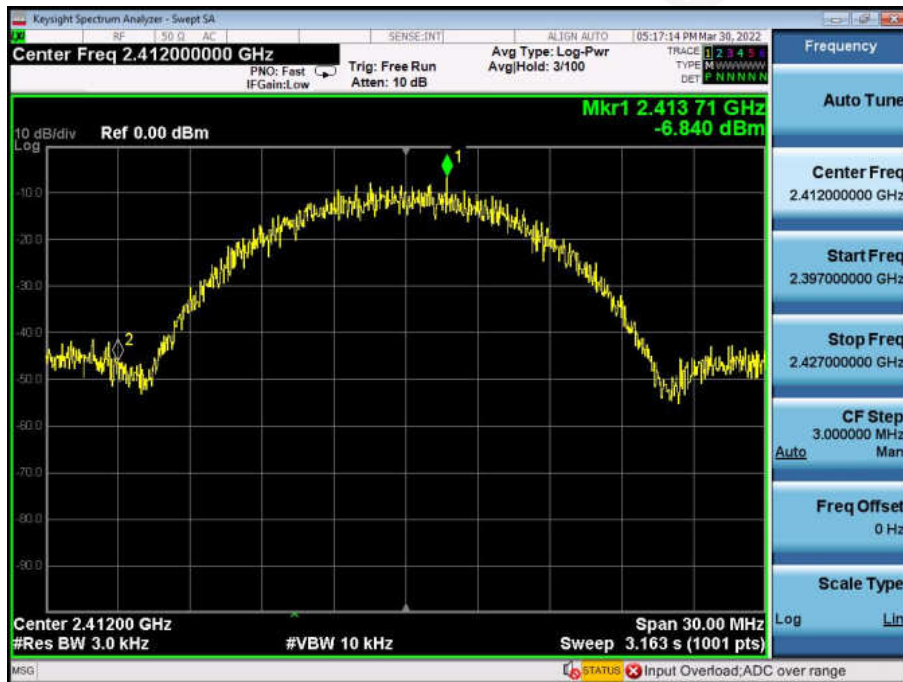


TX CH11

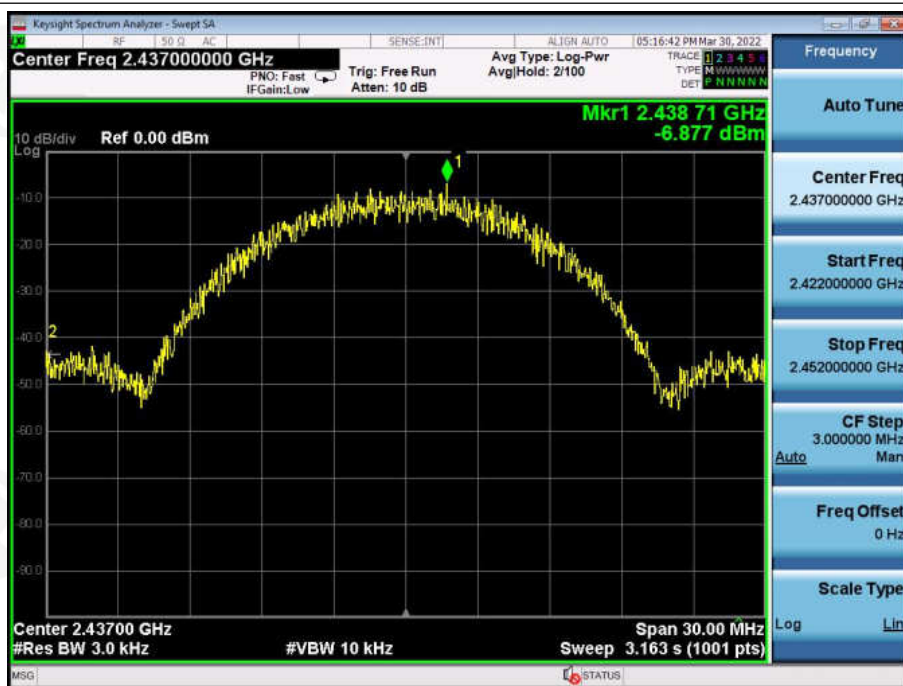


Ant C

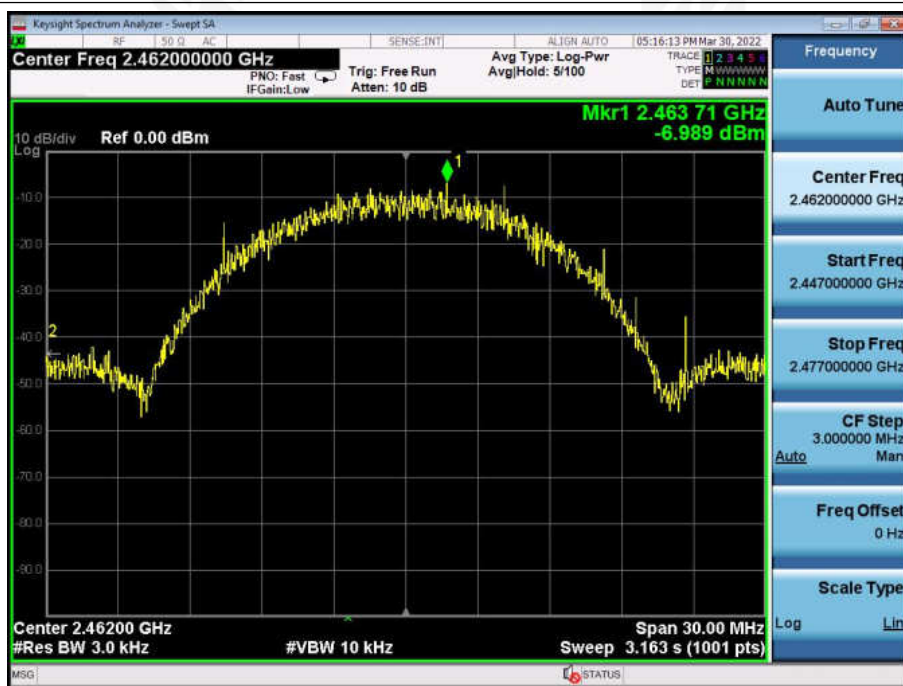
TX CH01



TX CH06

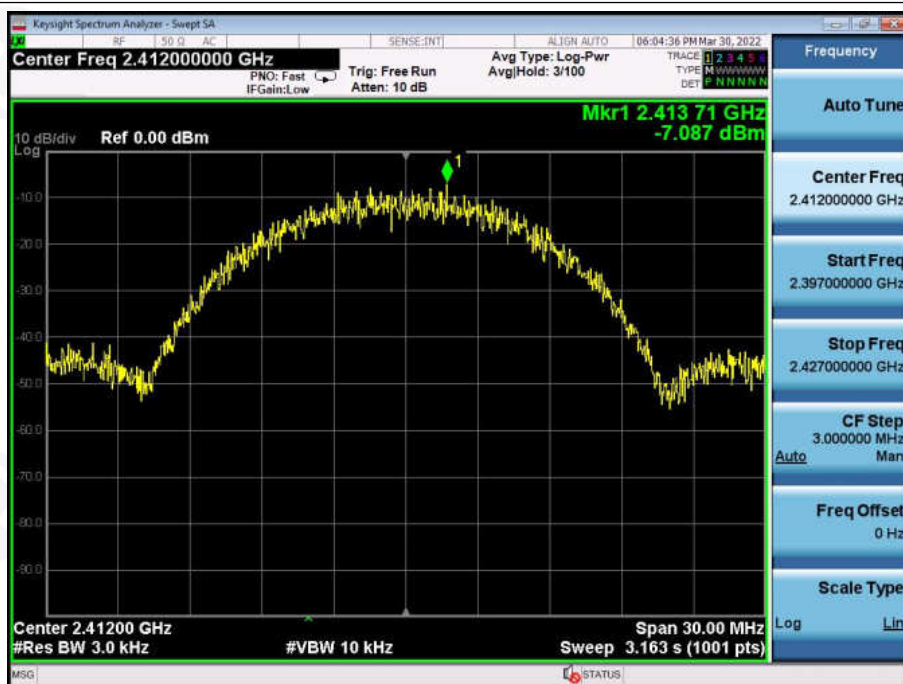


TX CH11

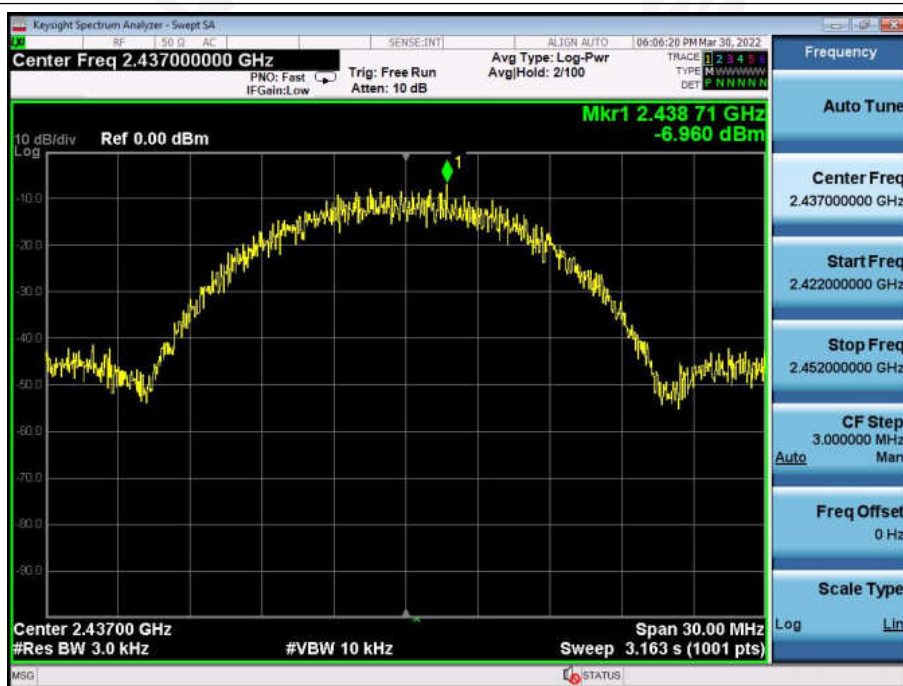


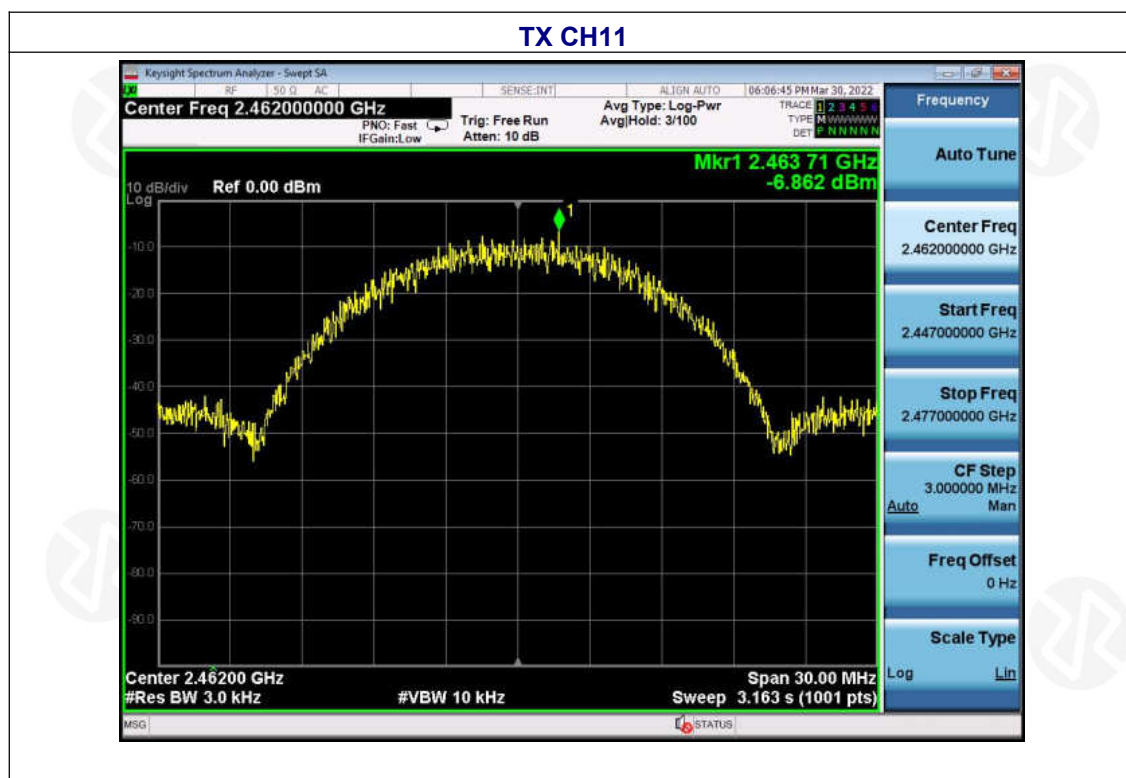
Ant D

TX CH01



TX CH06



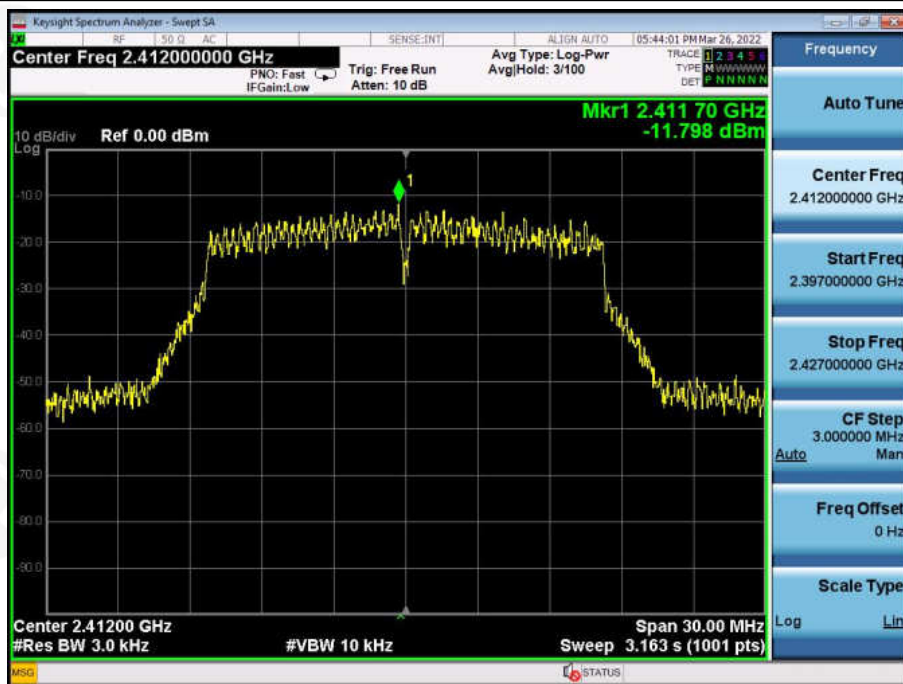


Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX g Mode		

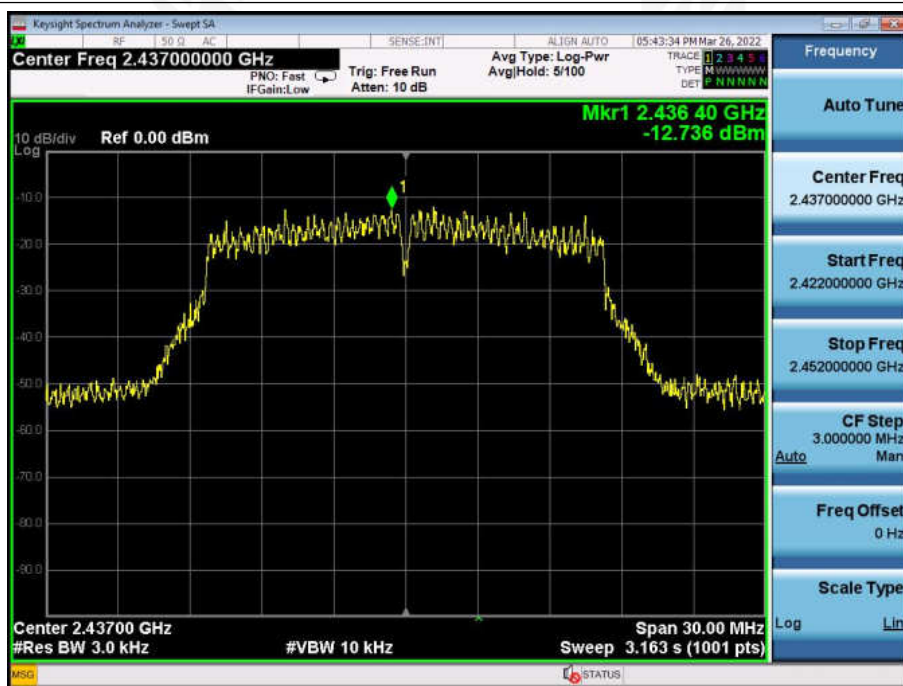
Frequency	Ant A	Ant B	Ant C	Ant D	Power Spectral Density Total (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Power Spectral Density (dBm/3kHz)	Power Spectral Density (dBm/3kHz)	Power Spectral Density (dBm/3kHz)	Power Spectral Density (dBm/3kHz)			
2412 MHz	-11.798	-11.277	-10.292	-11.973	/	8	PASS
2437 MHz	-12.736	-10.640	-11.072	-11.760	/	8	PASS
2462 MHz	-12.079	-10.515	-10.760	-11.547	/	8	PASS

Ant A

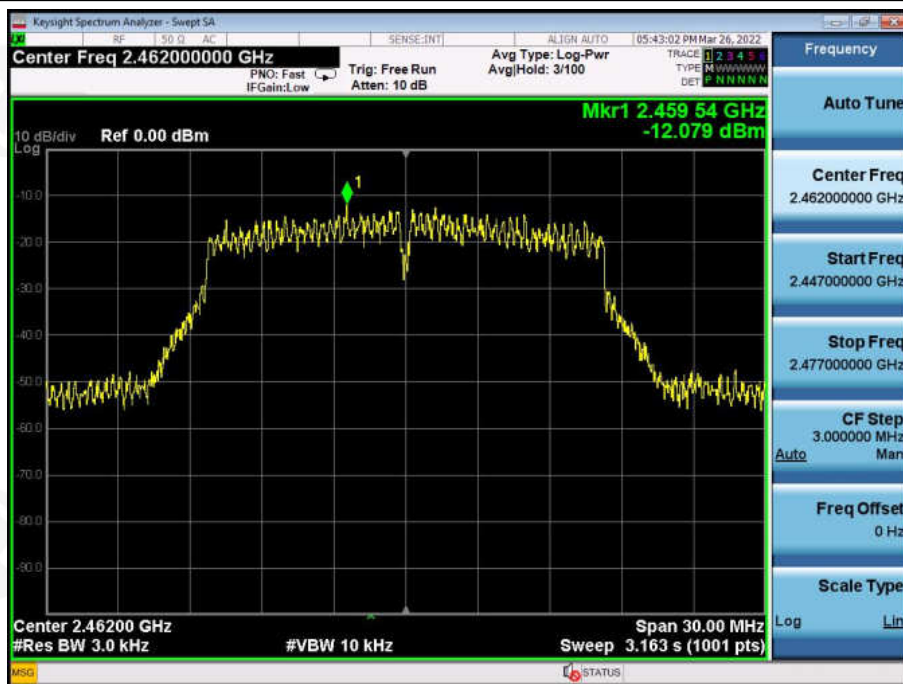
TX CH01



TX CH06

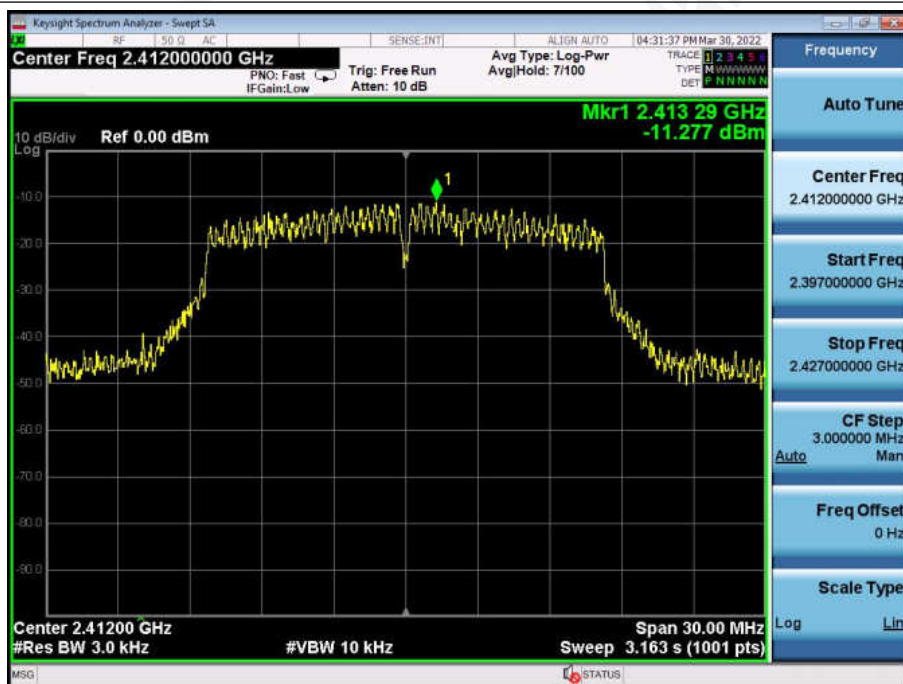


TX CH11

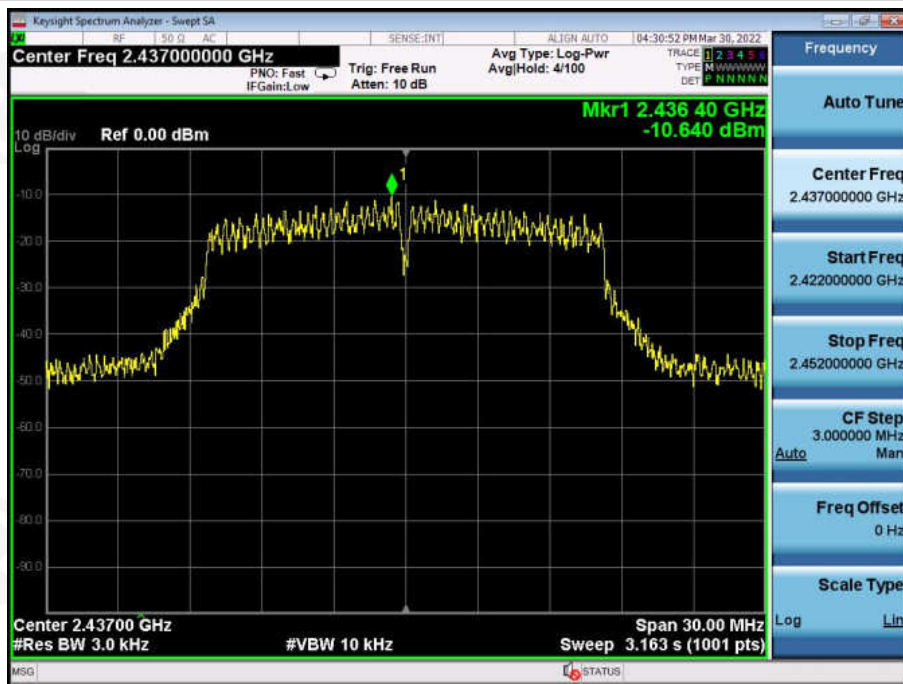


Ant B

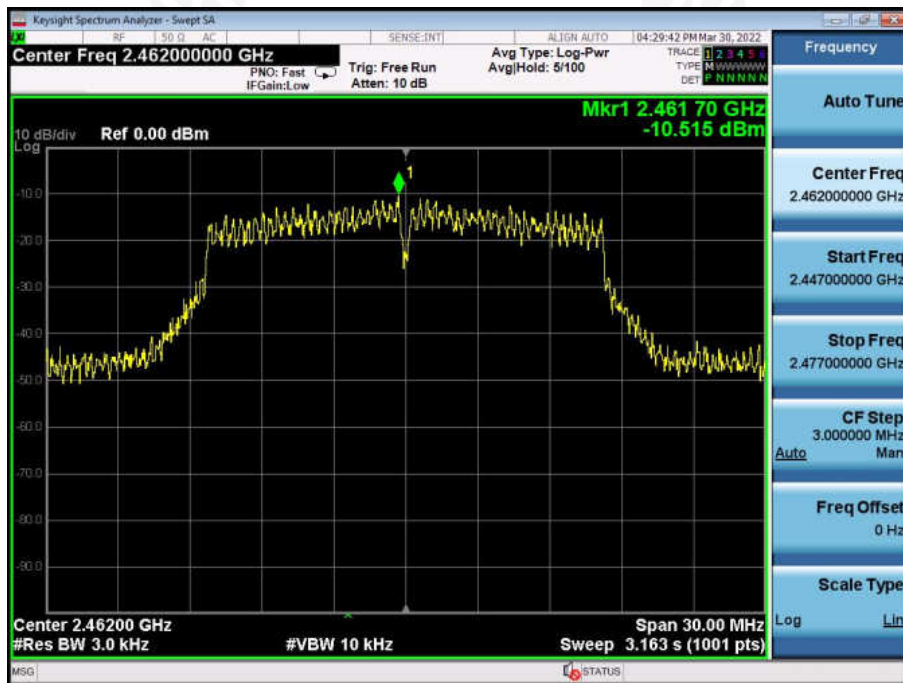
TX CH01



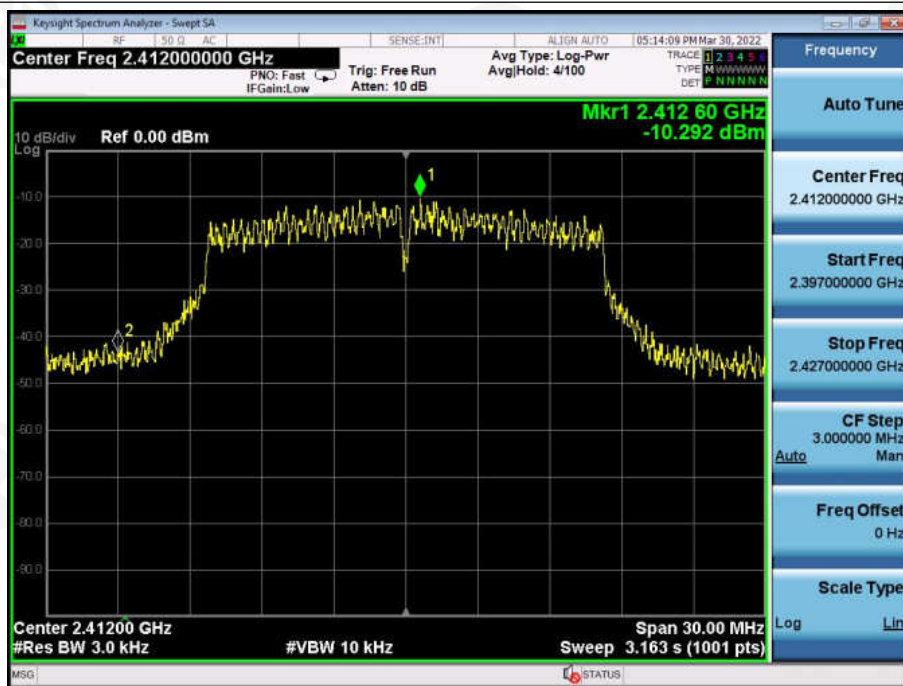
TX CH06



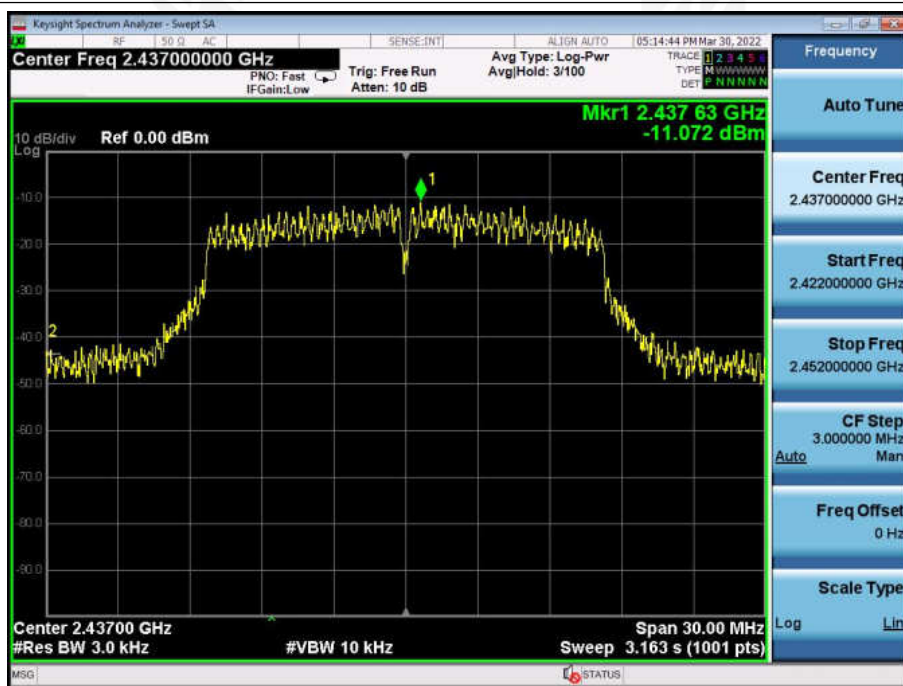
TX CH11



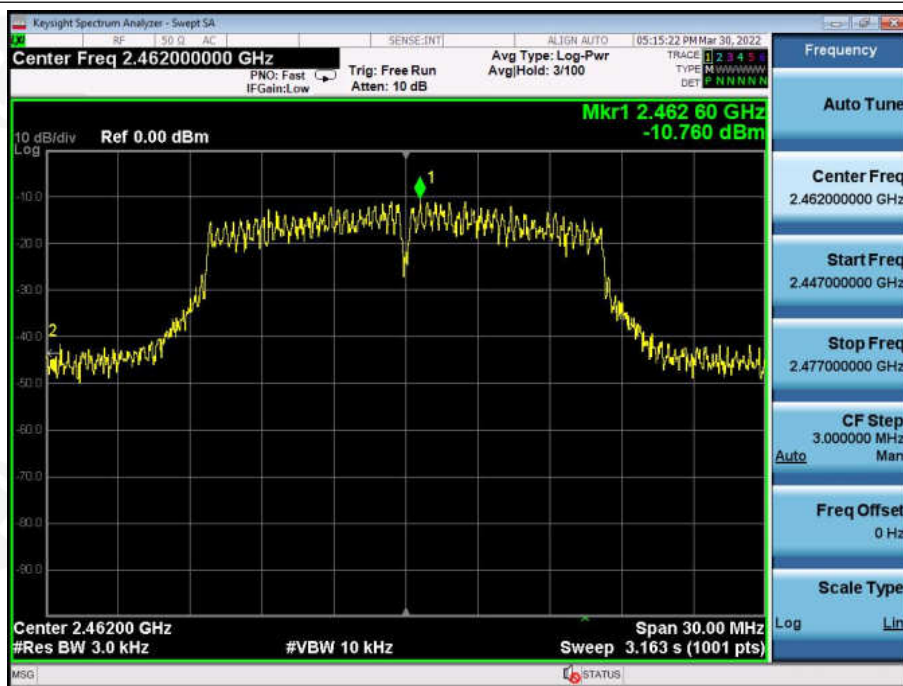
Ant C
TX CH01



TX CH06

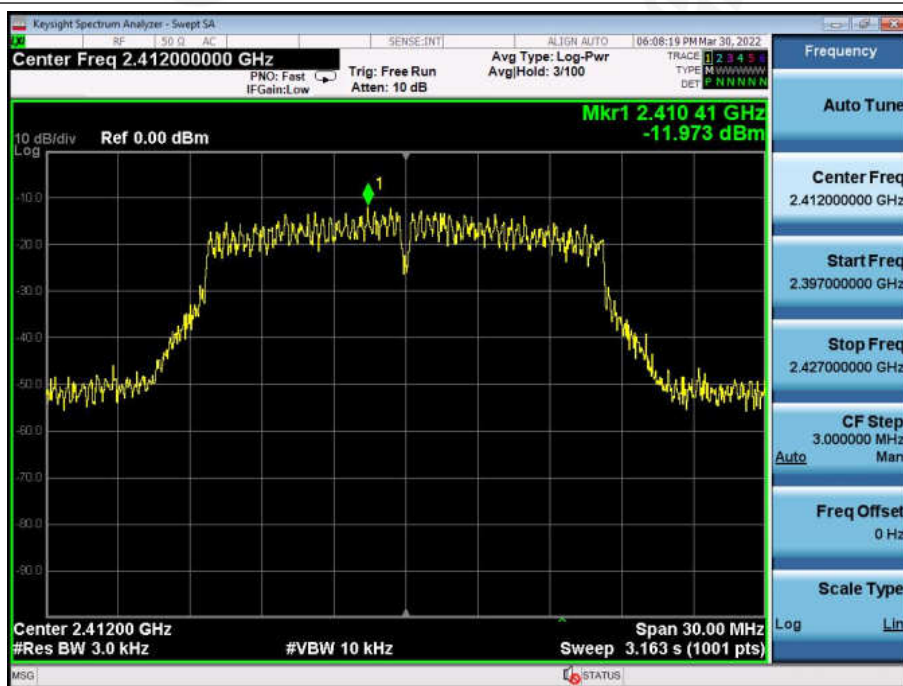


TX CH11

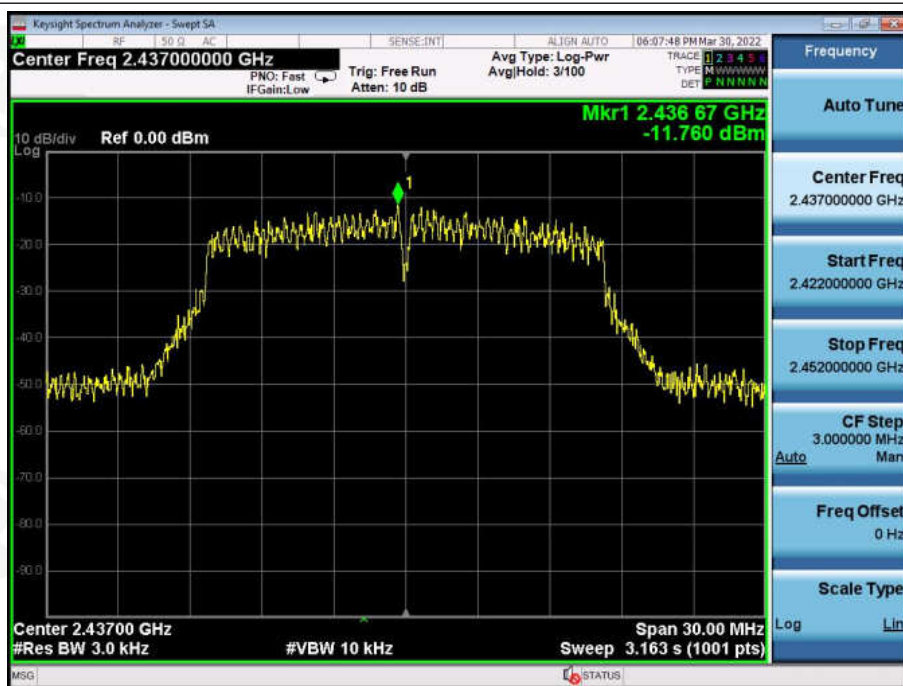


Ant D

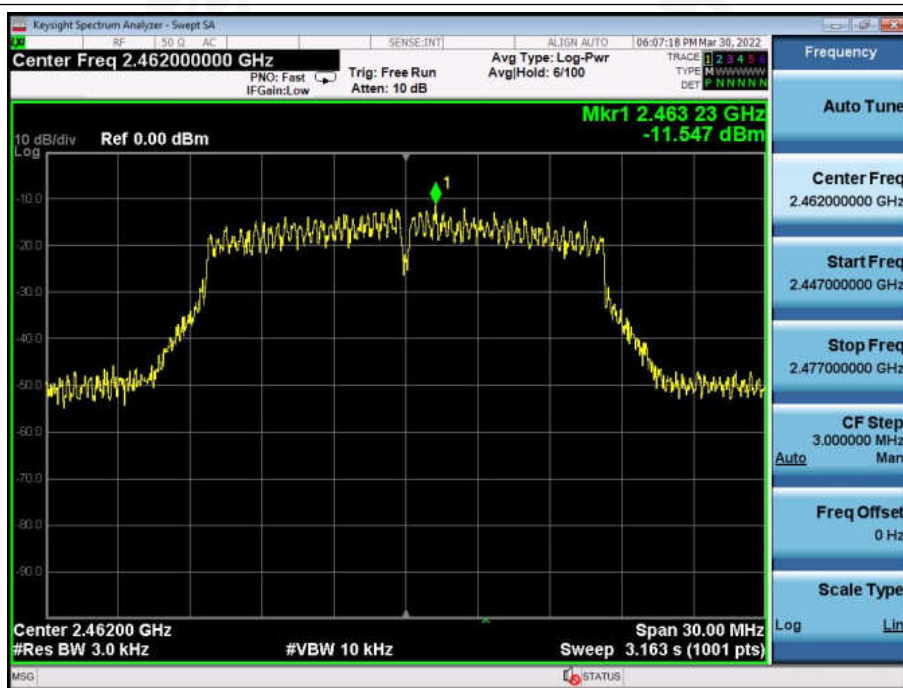
TX CH01



TX CH06

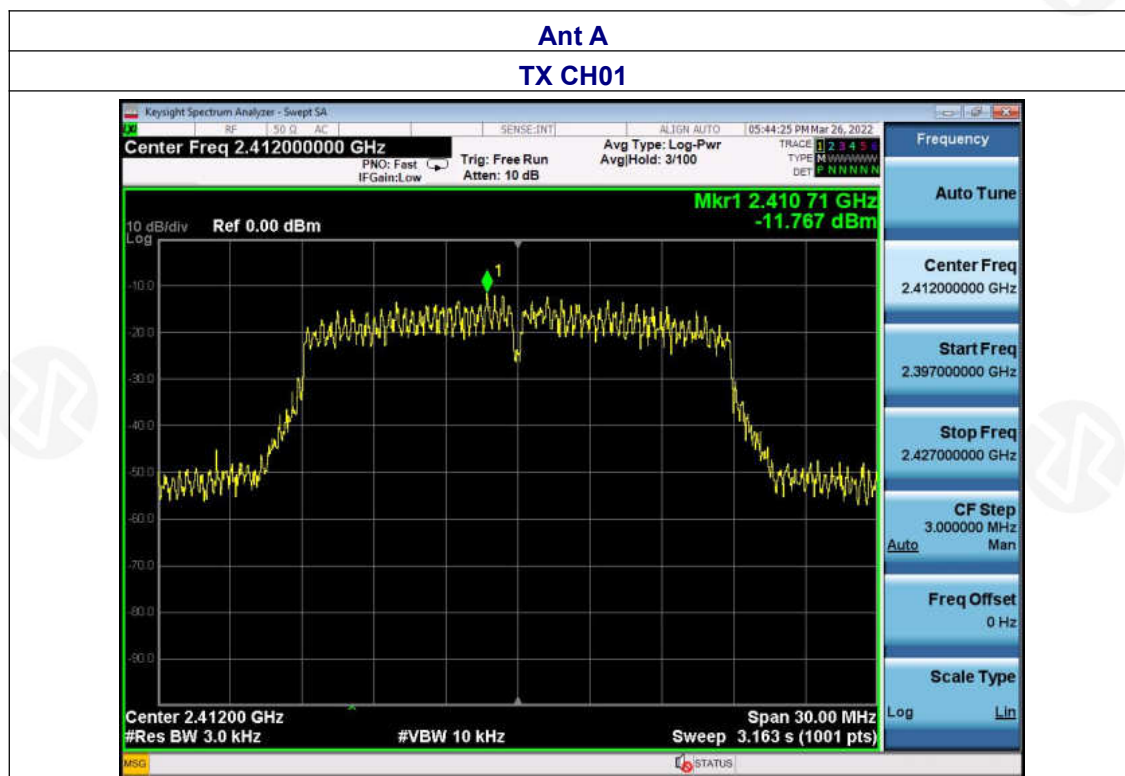


TX CH11

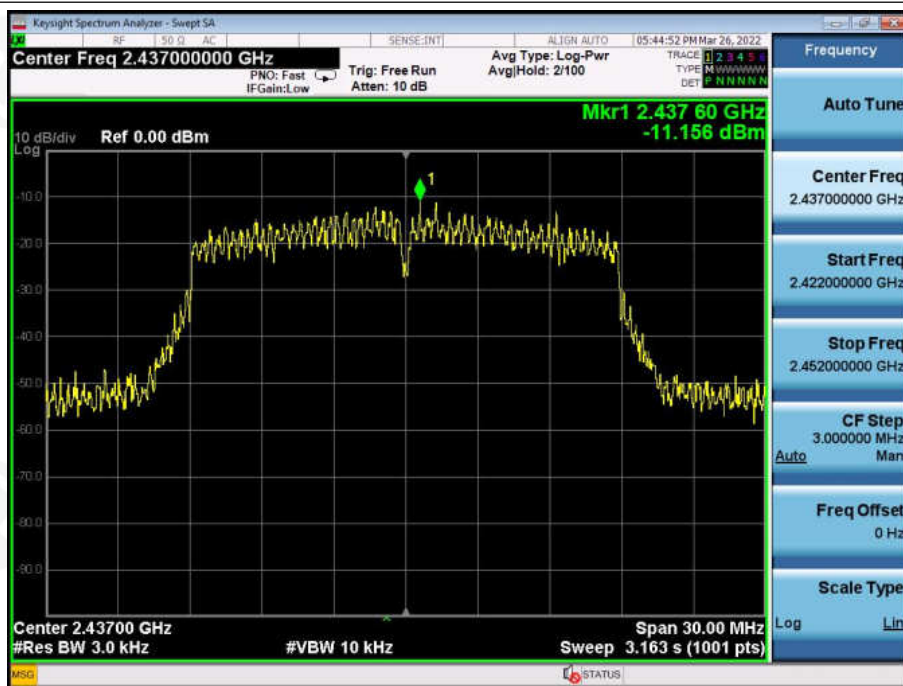


Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode(20M)		

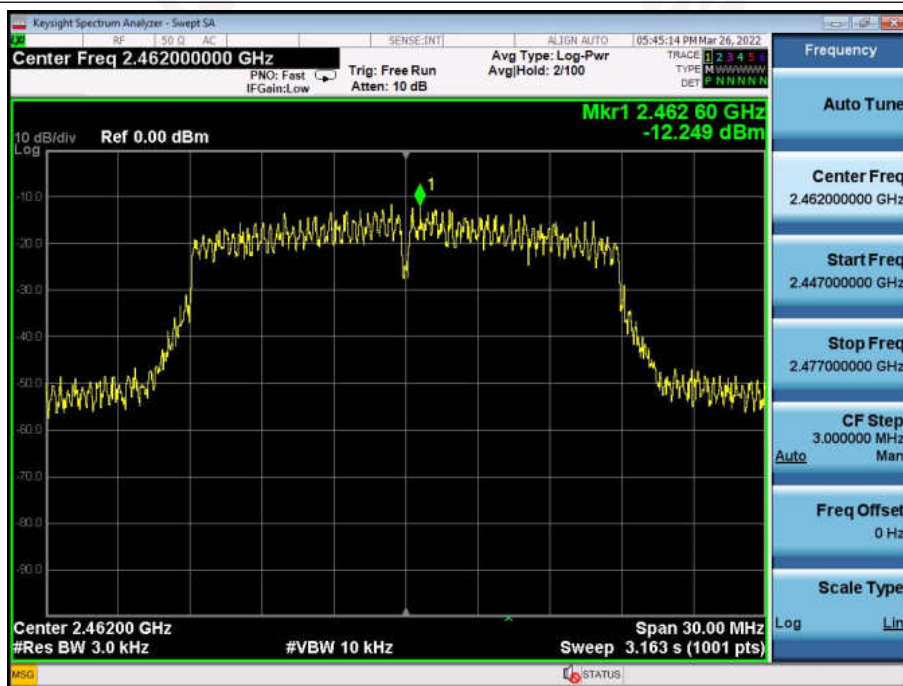
	Ant A	Ant B	Ant C	Ant D	Power Spectral Density Total (dBm/3kHz)	Limit (dBm/3kHz)	Result
Frequency	Power Spectral Density (dBm/3kHz)	Power Spectral Density (dBm/3kHz)	Power Spectral Density (dBm/3kHz)	Power Spectral Density (dBm/3kHz)			
2412 MHz	-11.767	-11.230	-10.270	-10.587	-4.90	6.99	PASS
2437 MHz	-11.156	-10.042	-10.600	-10.522	-4.54	6.99	PASS
2462 MHz	-12.249	-10.772	-10.690	-11.248	-5.18	6.99	PASS



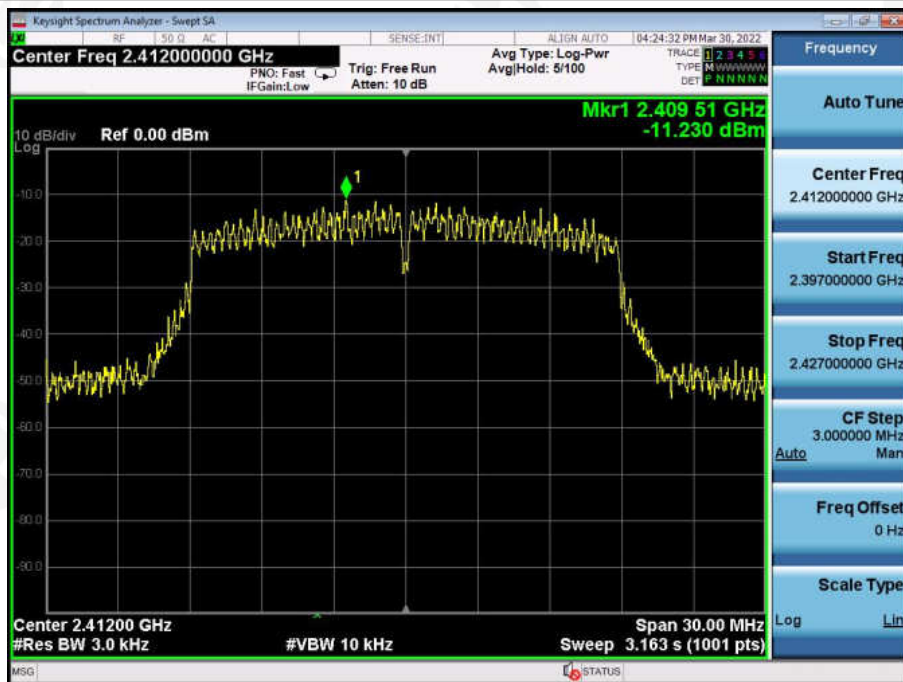
TX CH06



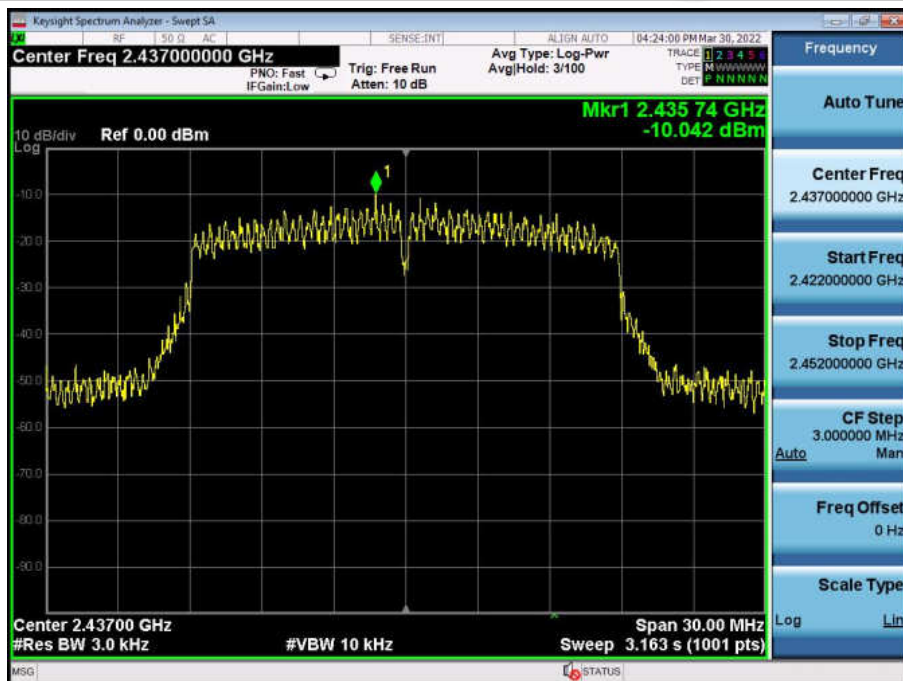
TX CH11



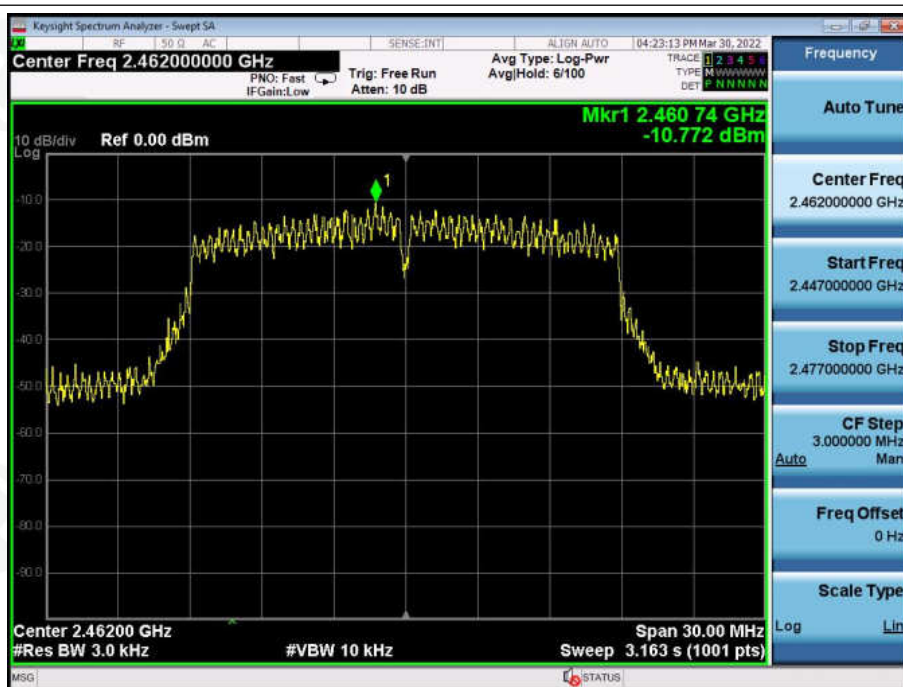
Ant B
TX CH01



TX CH06

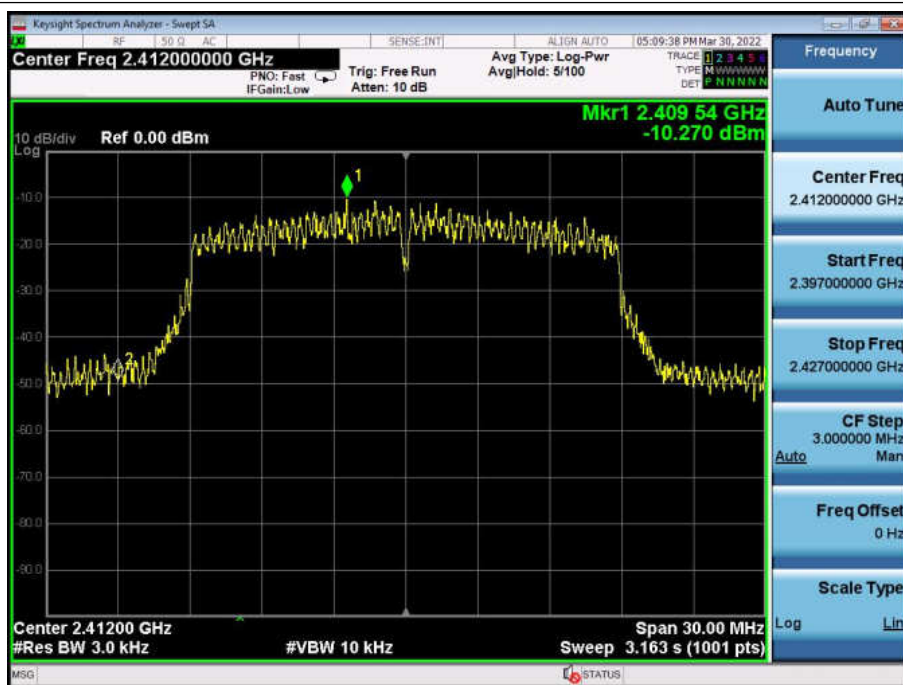


TX CH11



Ant C

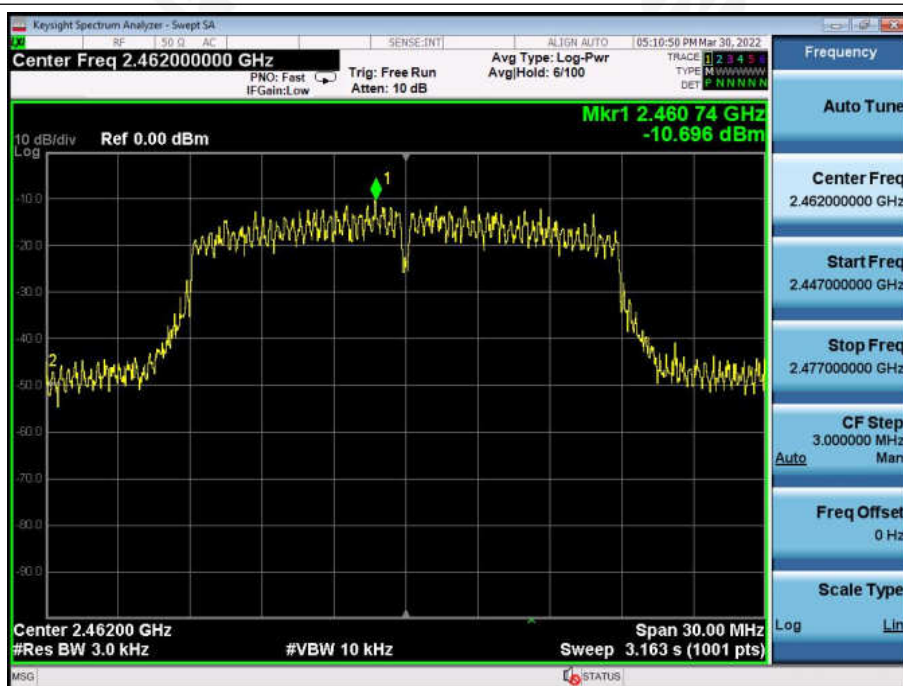
TX CH01



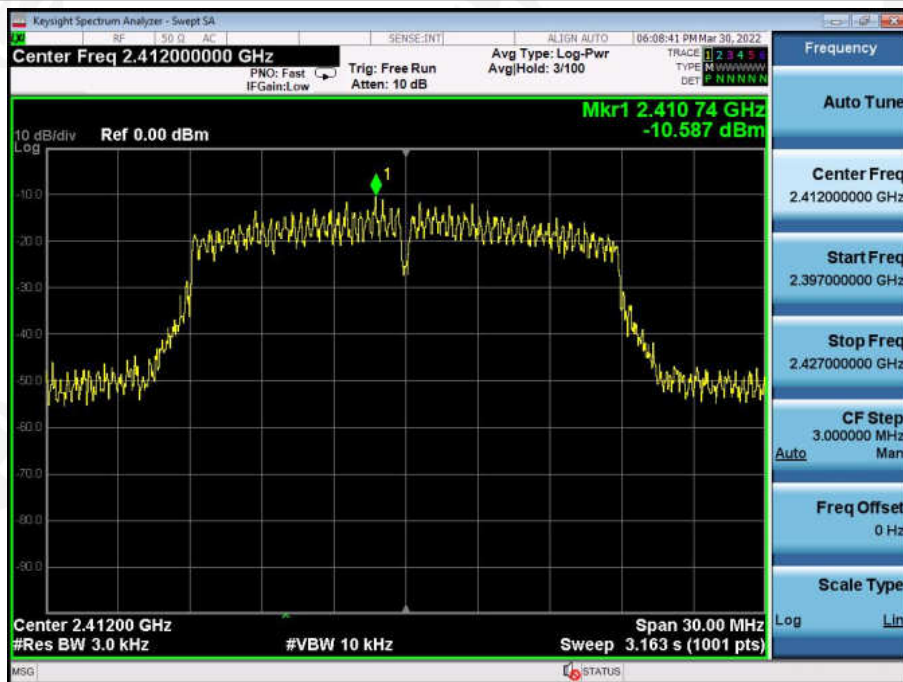
TX CH06



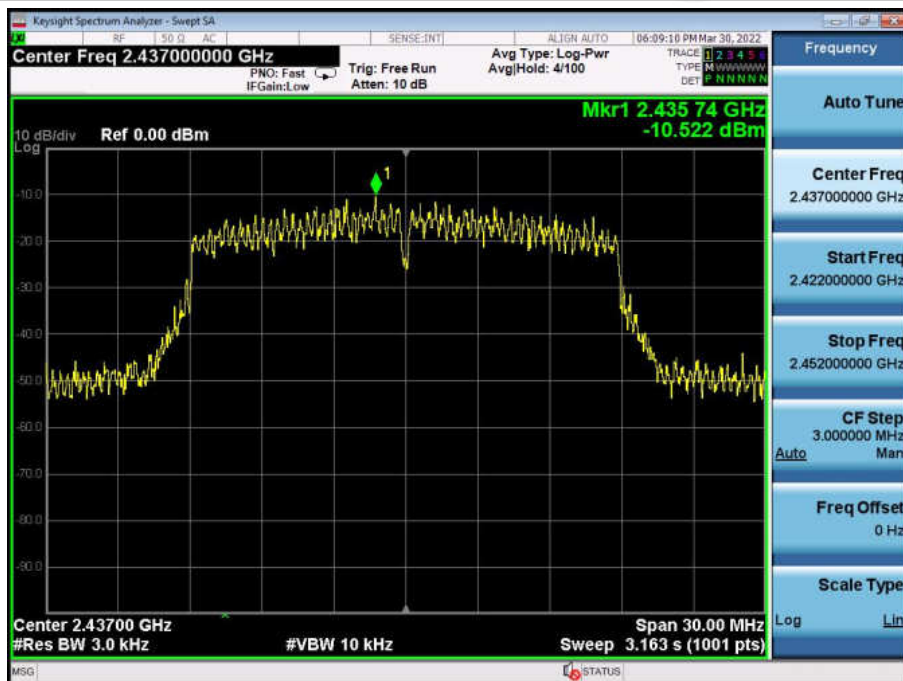
TX CH11

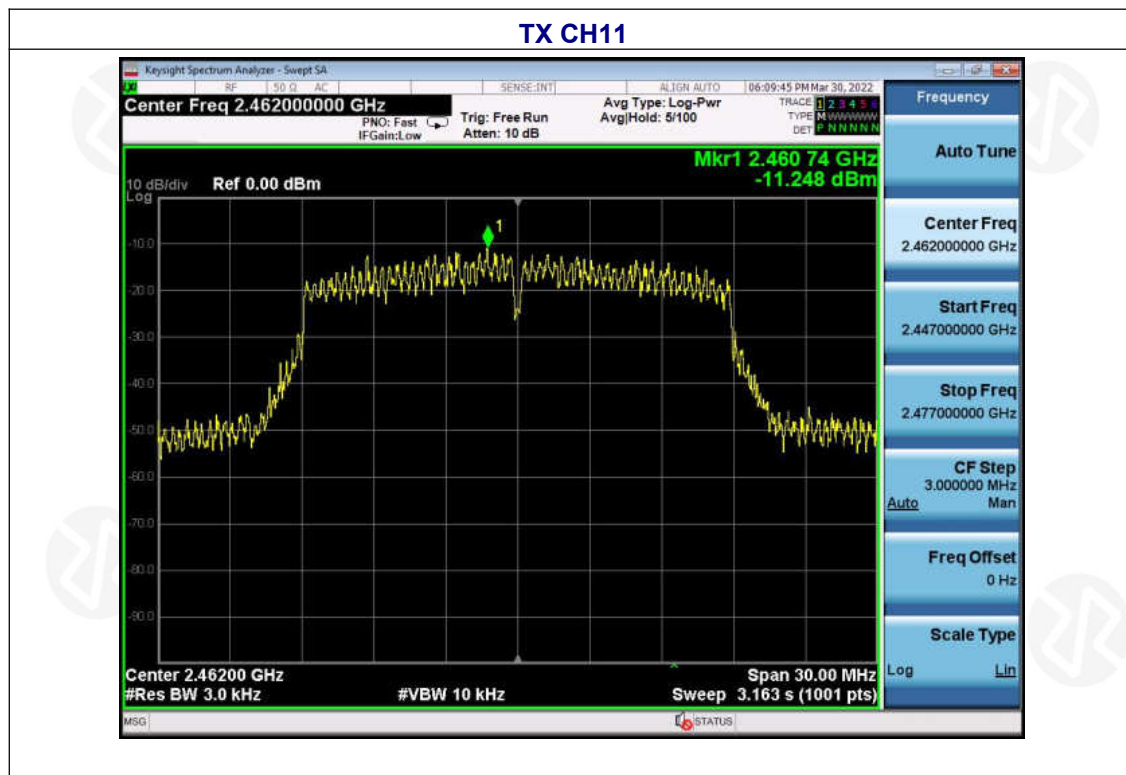


Ant D
TX CH01



TX CH06

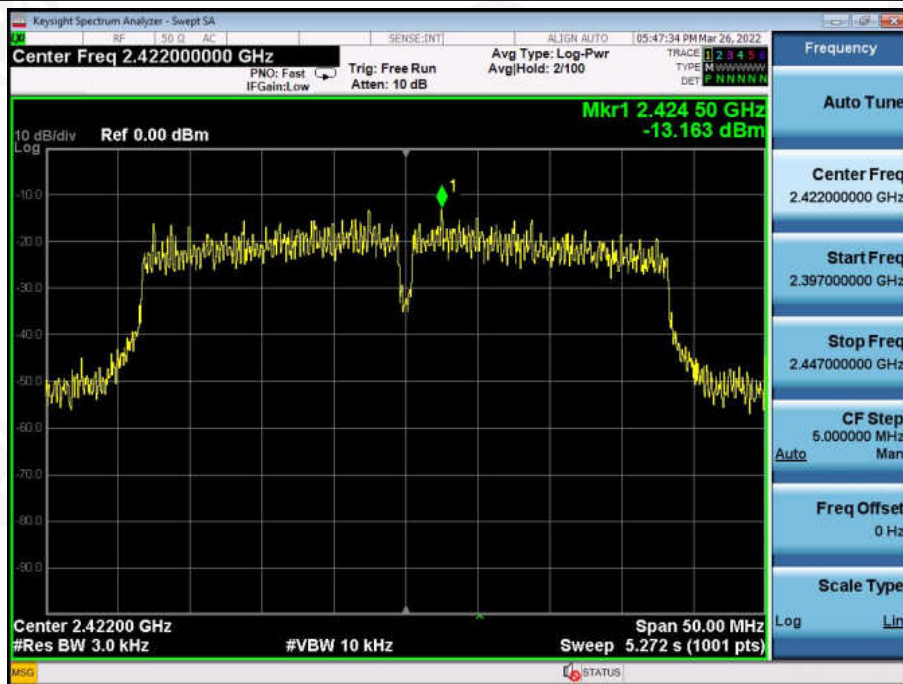




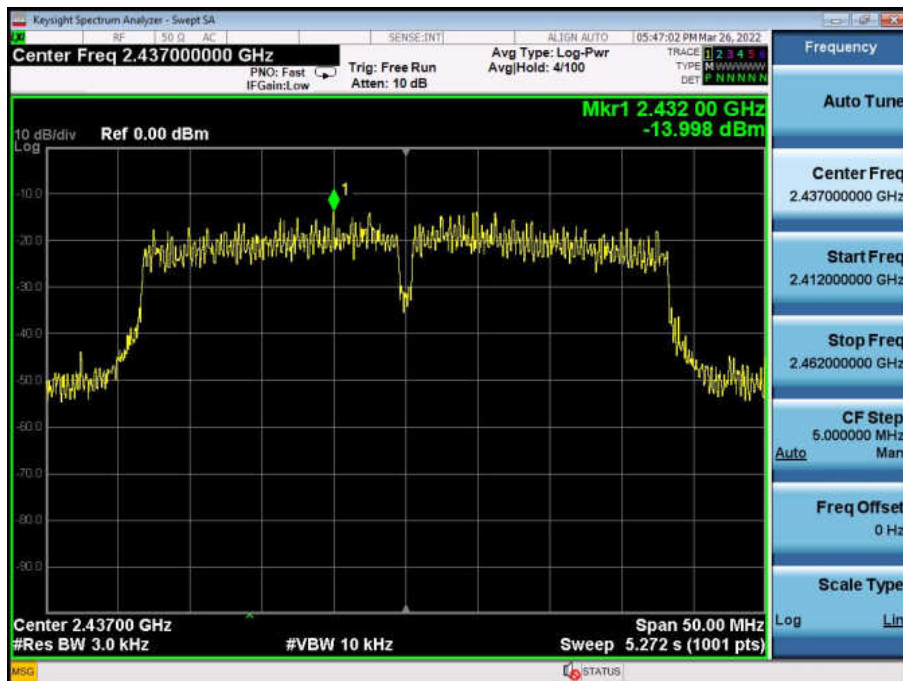
Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode(40M)		

	Ant A	Ant B	Ant C	Ant D	Power Spectral Density Total (dBm/3kHz)	Limit (dBm/3kHz)	Result
Frequency	Power Spectral Density (dBm/3kHz)	Power Spectral Density (dBm/3kHz)	Power Spectral Density (dBm/3kHz)	Power Spectral Density (dBm/3kHz)			
2422 MHz	-13.168	-13.230	-13.800	-13.431	-7.38	6.99	PASS
2437 MHz	-13.998	-13.073	-13.806	-13.210	-7.48	6.99	PASS
2452 MHz	-13.726	-13.256	-13.330	-13.671	-7.47	6.99	PASS

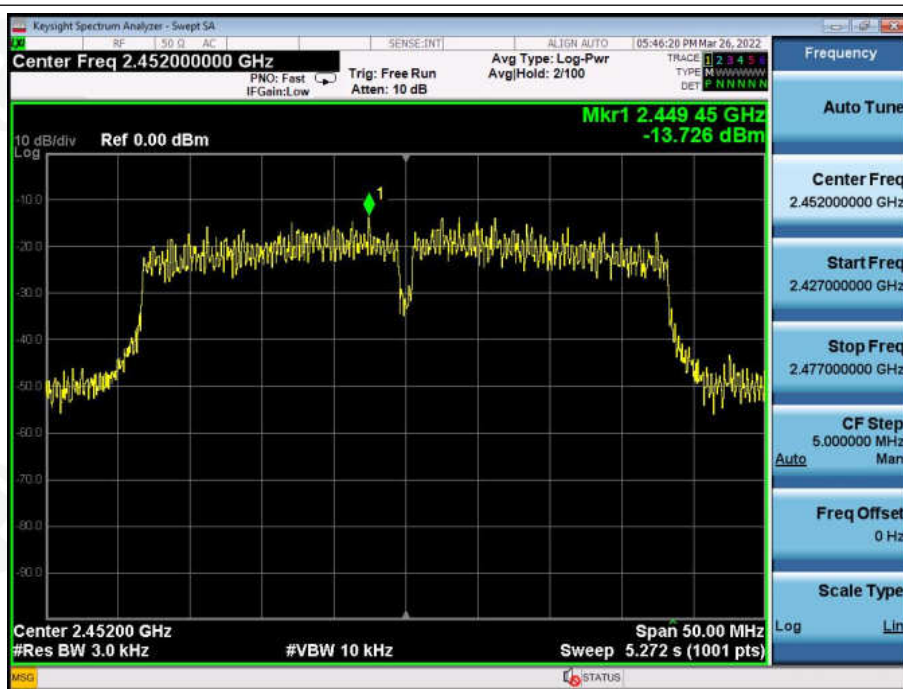
Ant A
TX CH03



TX CH06

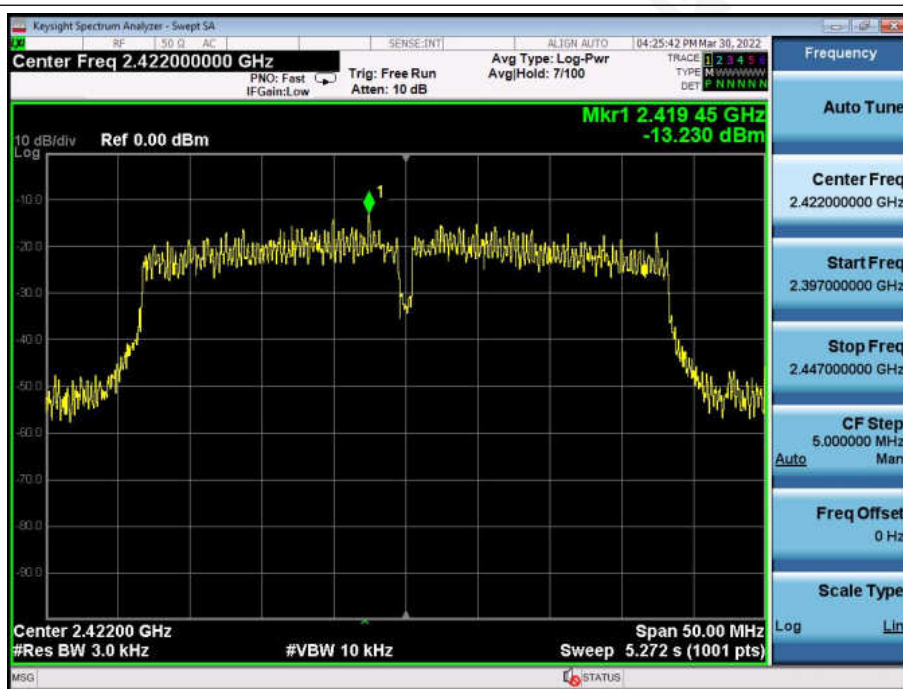


TX CH09

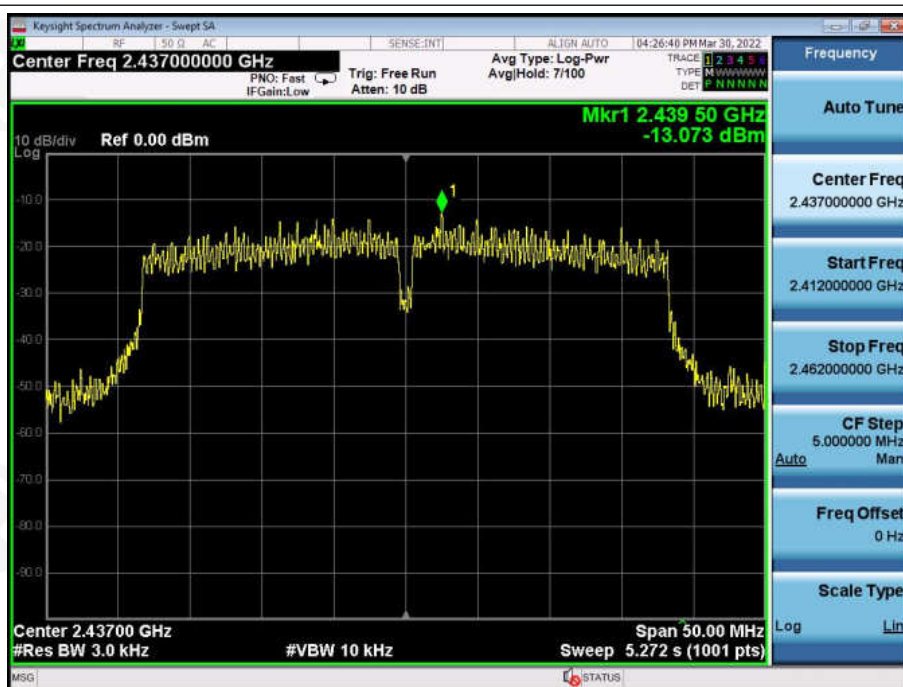


Ant B

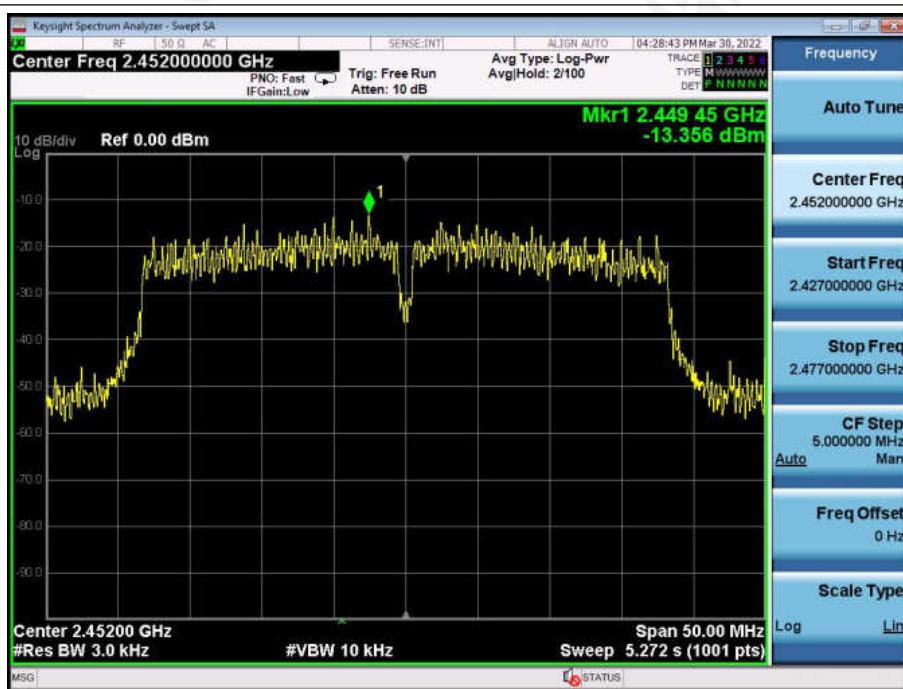
TX CH03



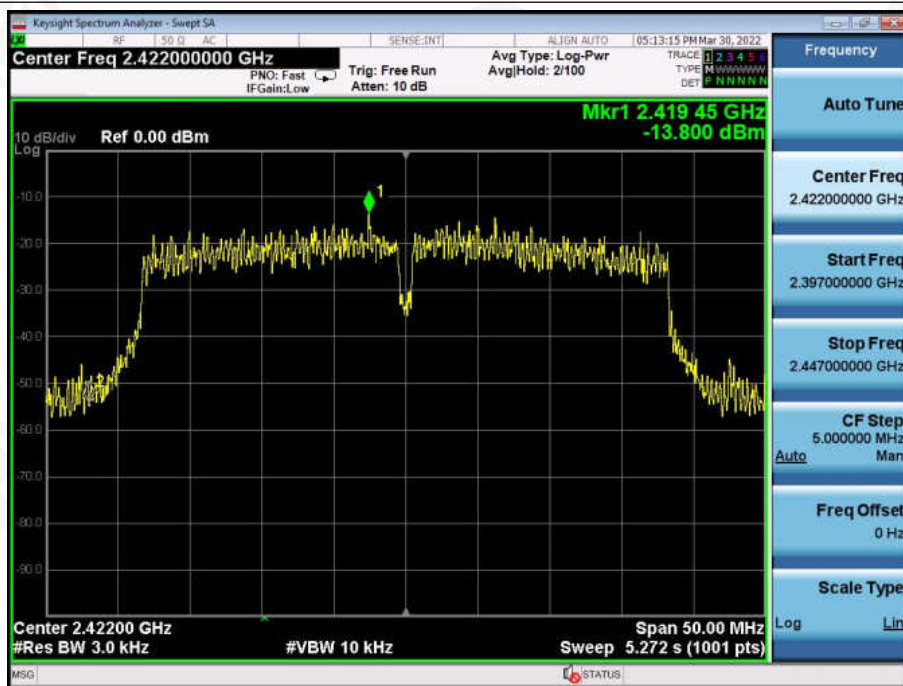
TX CH06



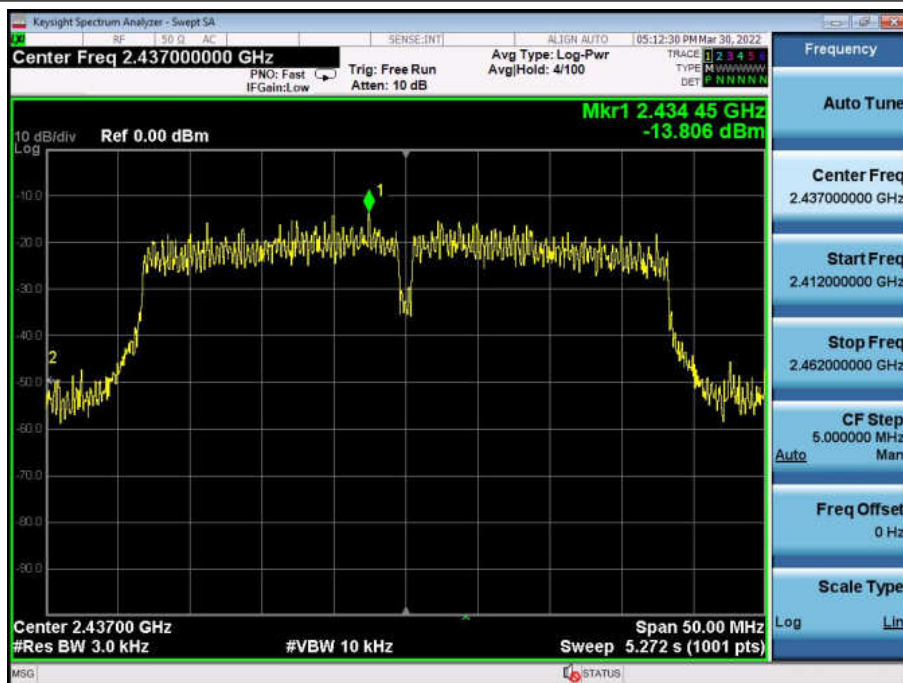
TX CH09



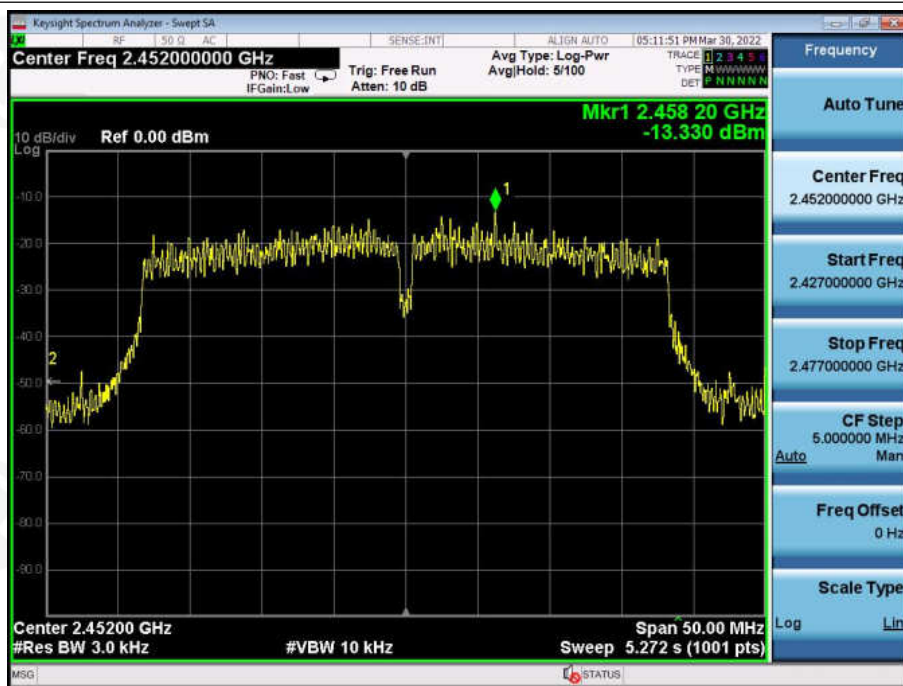
Ant C
TX CH03



TX CH06

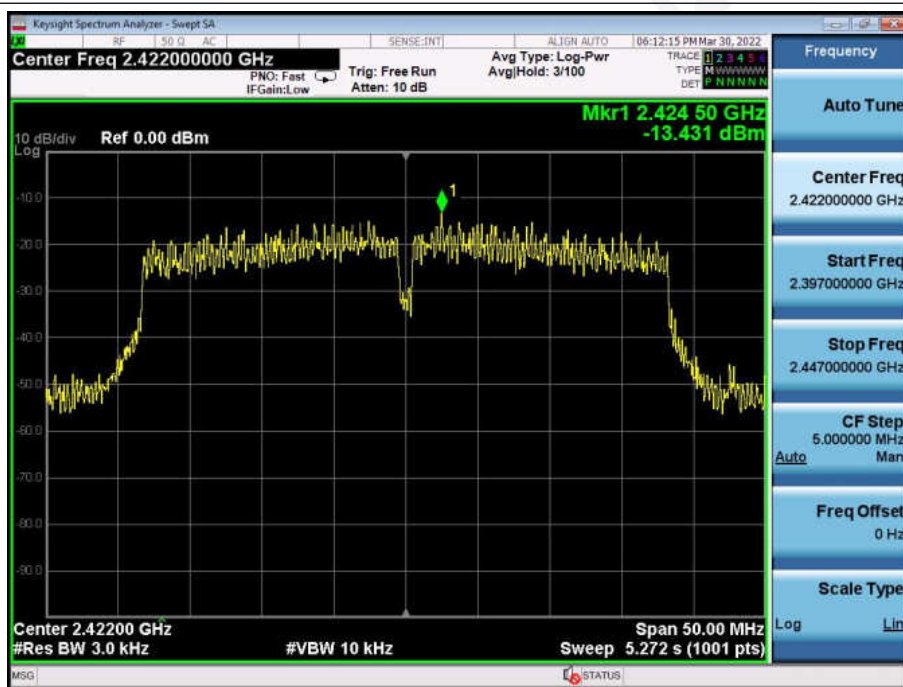


TX CH09

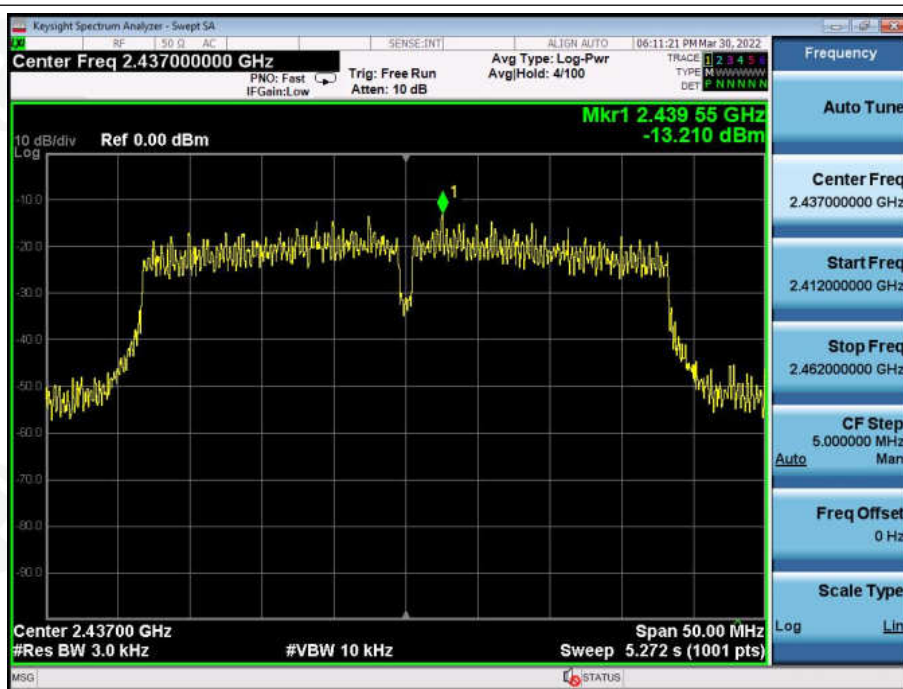


Ant D

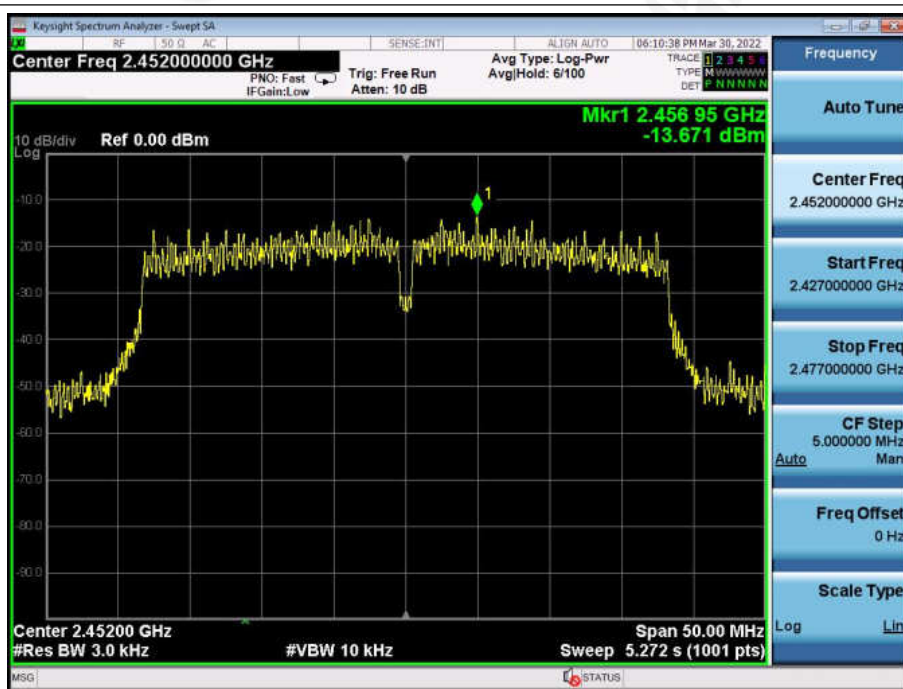
TX CH03



TX CH06



TX CH09



7. CHANNEL BANDWIDTH& 99% OCCUPY BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULT

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX b Mode		

Ant A						
Test CH	Result					
	802.11b	802.11g	802.11n(HT20)	802.11n(HT 40)	Limit(KHz)	Result
Lowest	8.346	15.11	15.99	35.10	>500	Pass
Middle	8.342	15.12	16.59	35.10		
Highest	8.340	15.1	16.03	35.10		

Ant B						
Test CH	Result					
	802.11b	802.11g	802.11n(HT20)	802.11n(HT 40)	Limit(KHz)	Result
Lowest	8.331	15.15	16.03	35.10	>500	Pass
Middle	8.330	15.12	16.61	35.10		
Highest	8.330	15.13	16.62	35.10		

Ant C						
Test CH	Result					
	802.11b	802.11g	802.11n(HT20)	802.11n(HT 40)	Limit(KHz)	Result
Lowest	8.327	15.11	16.02	35.10	>500	Pass
Middle	8.332	15.12	16.58	35.10		
Highest	8.327	15.11	16.03	35.09		

Ant D						
Test CH	Result					
	802.11b	802.11g	802.11n(HT20)	802.11n(HT 40)	Limit(KHz)	Result
Lowest	8.328	15.11	16.61	35.09	>500	Pass
Middle	8.330	15.11	16.51	35.10		
Highest	8.331	15.11	16.03	35.10		

Ant A

Test plot as follows:

802.11b

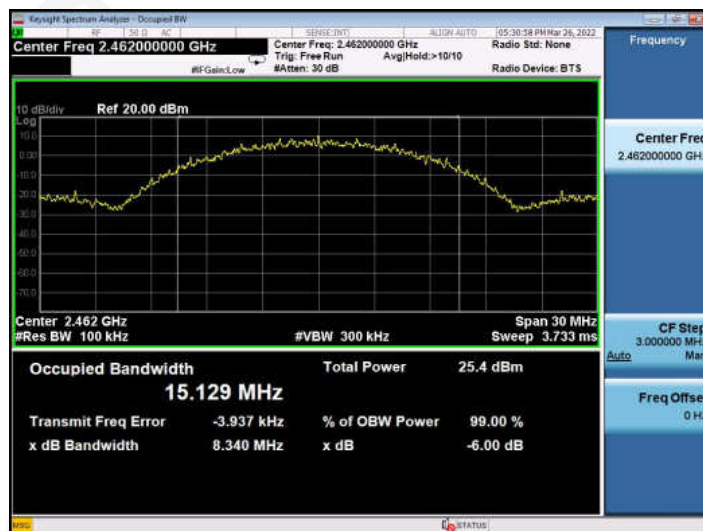
Lowest channel



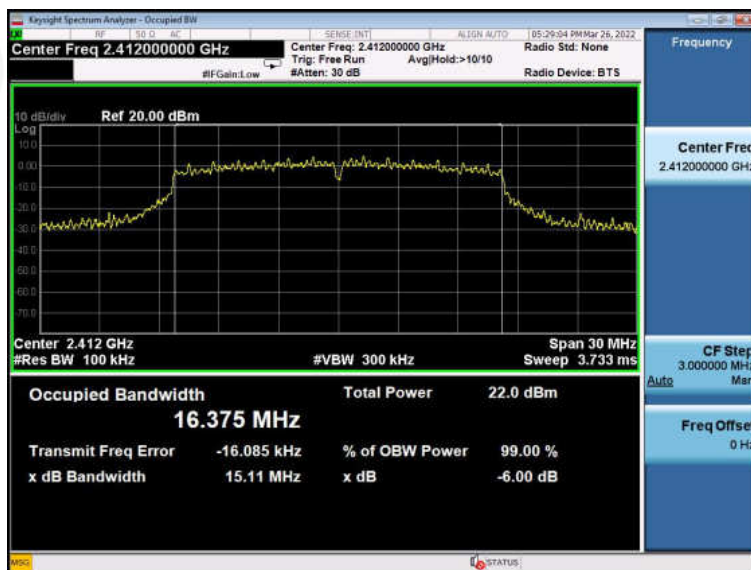
Middle channel



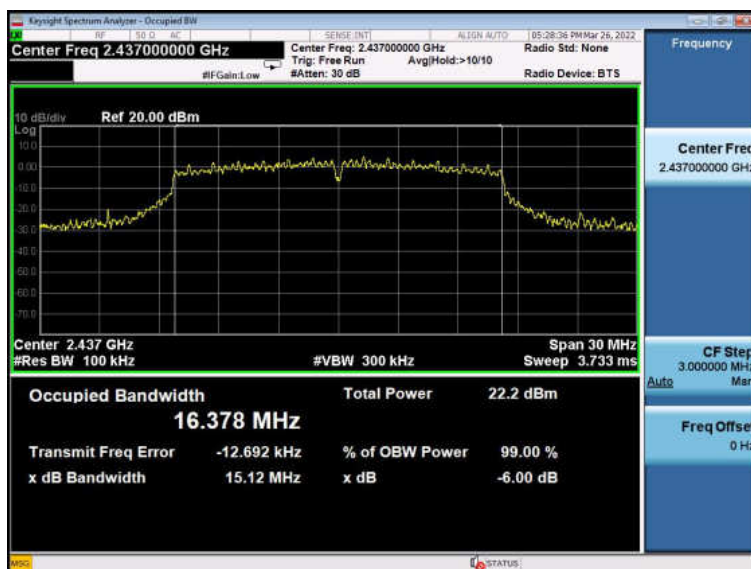
Highest channel



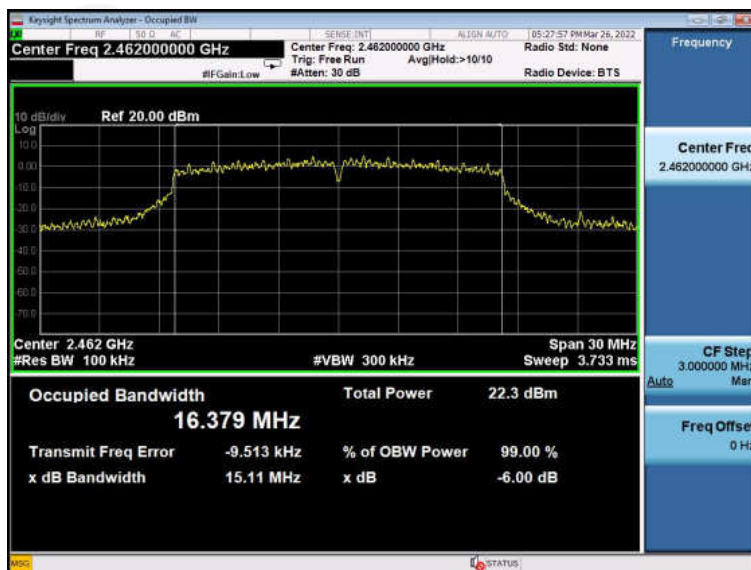
802.11g
Lowest channel



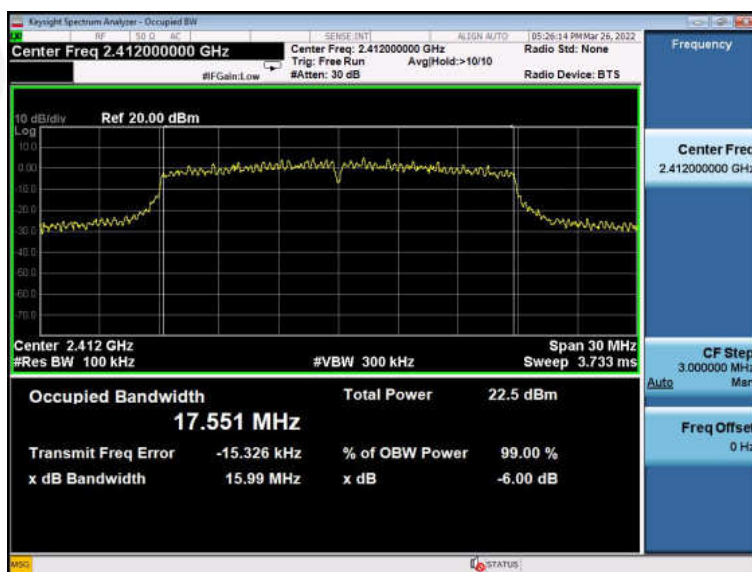
Middle channel



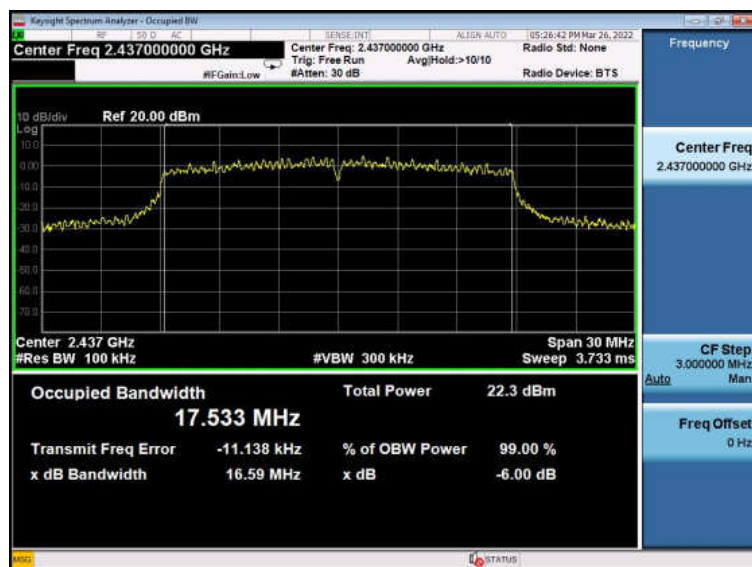
Highest channel



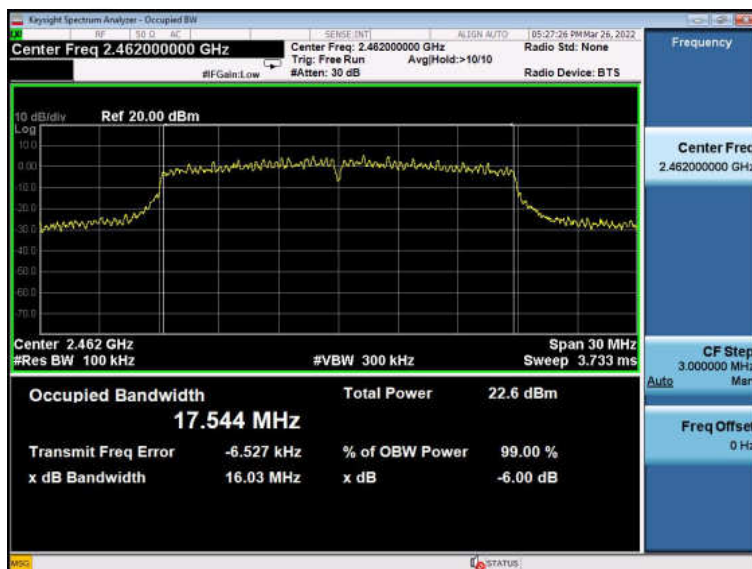
802.11n20
Lowest channel



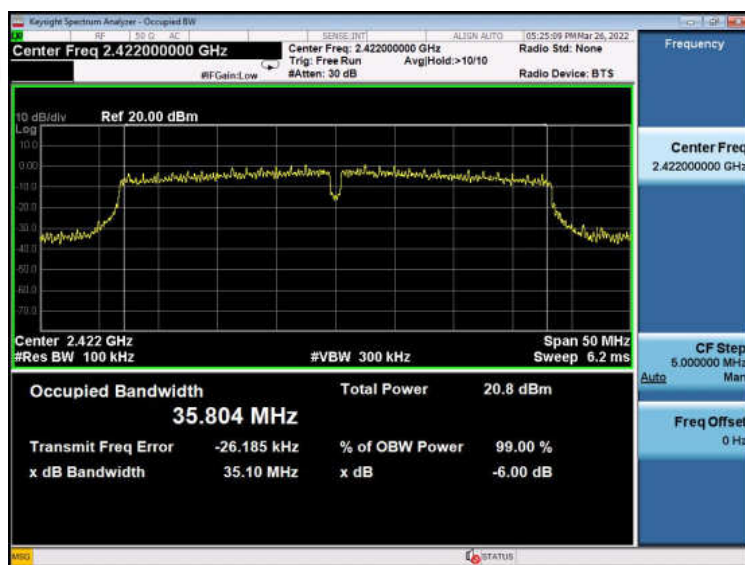
Middle channel



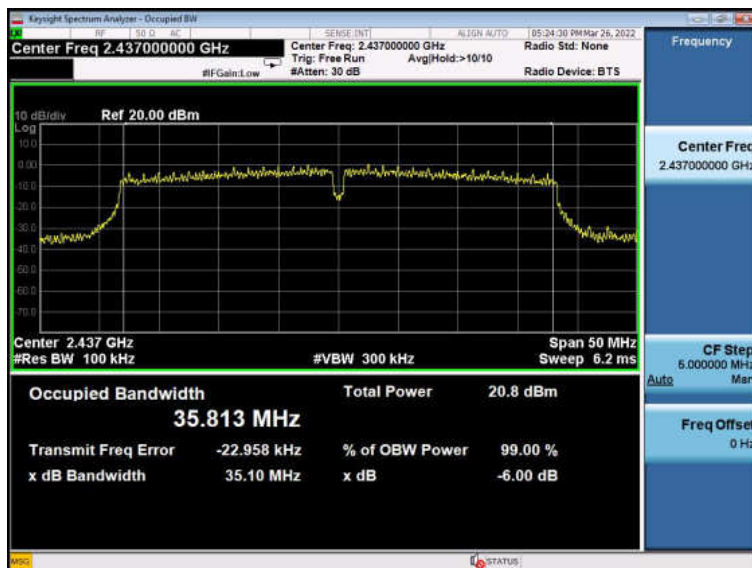
Highest channel



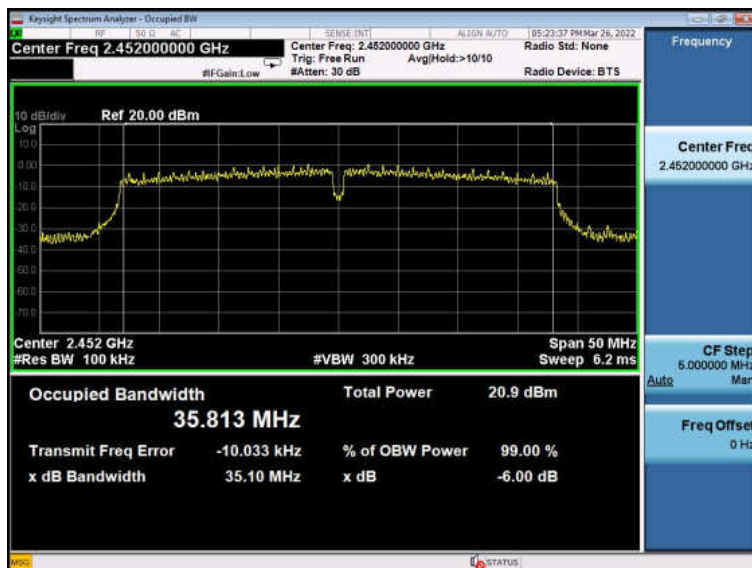
802.11n40
Lowest channel



Middle channel



Highest channel



Ant B

Test plot as follows:

802.11b

Lowest channel



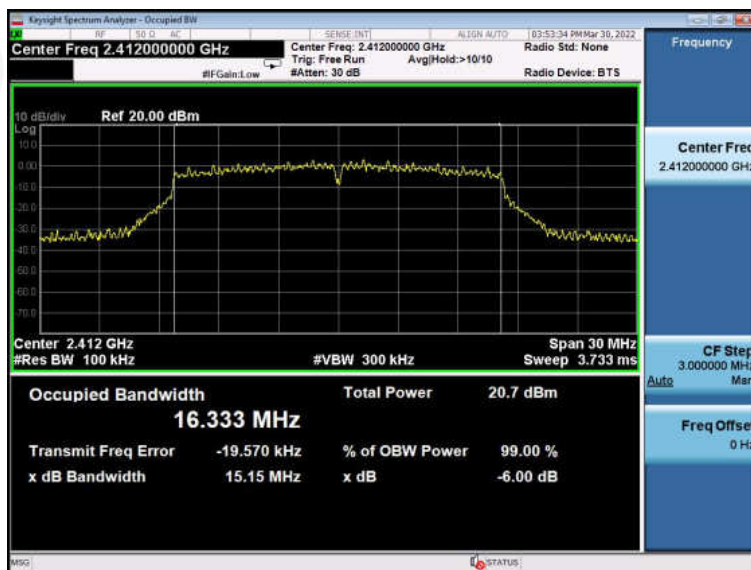
Middle channel



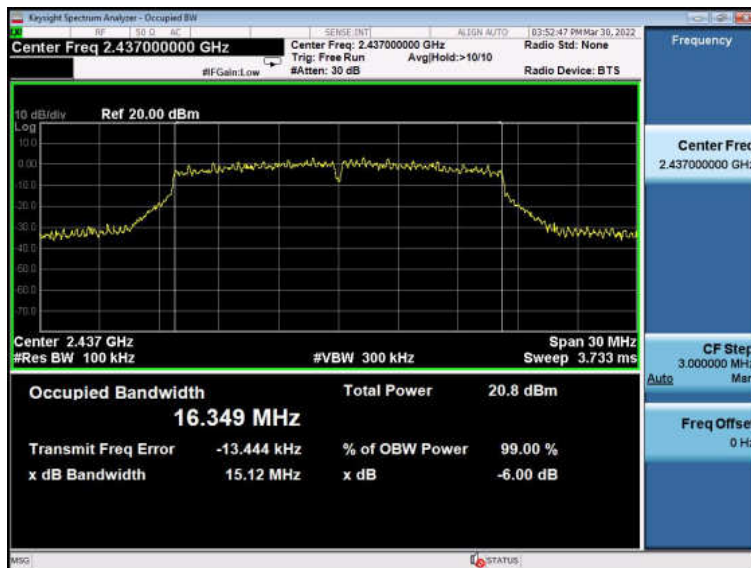
Highest channel



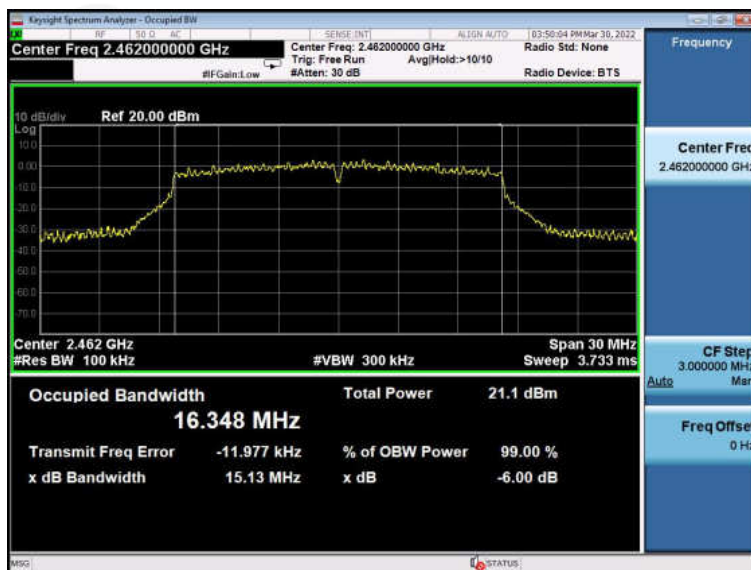
802.11g
Lowest channel



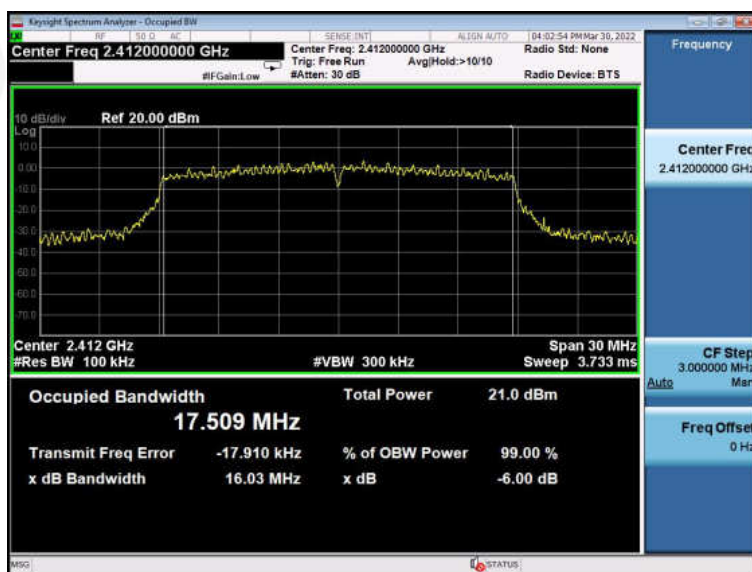
Middle channel



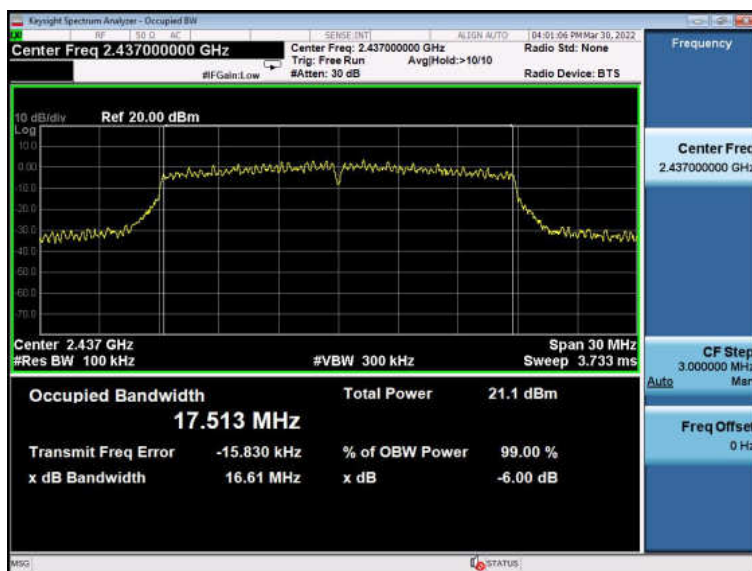
Highest channel



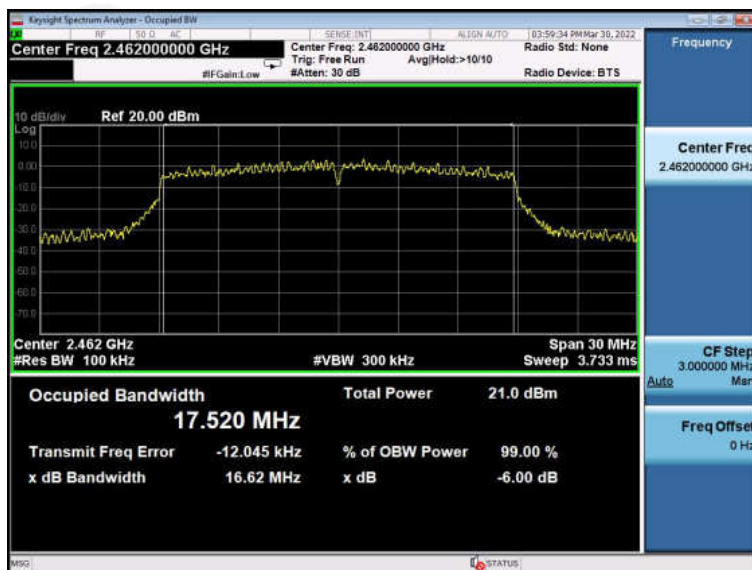
802.11n20
Lowest channel



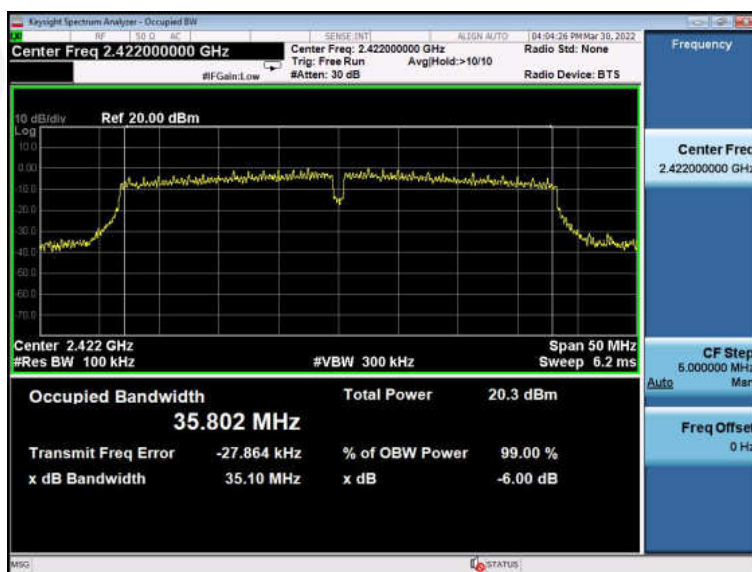
Middle channel



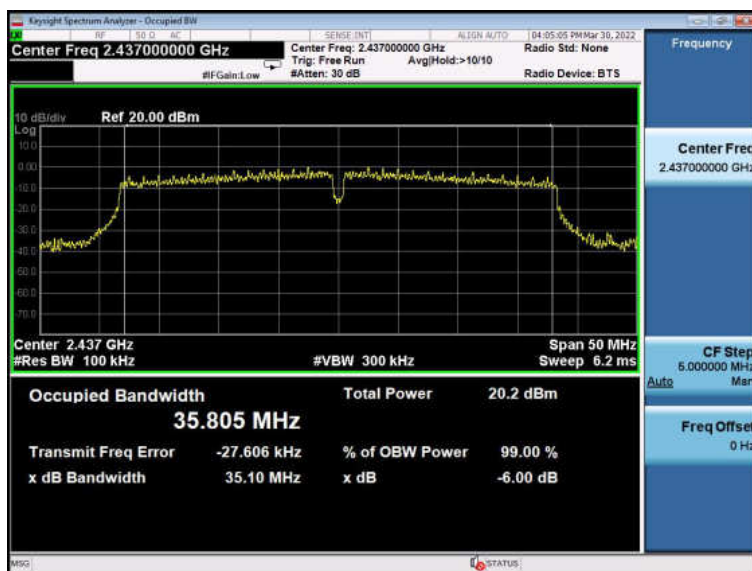
Highest channel



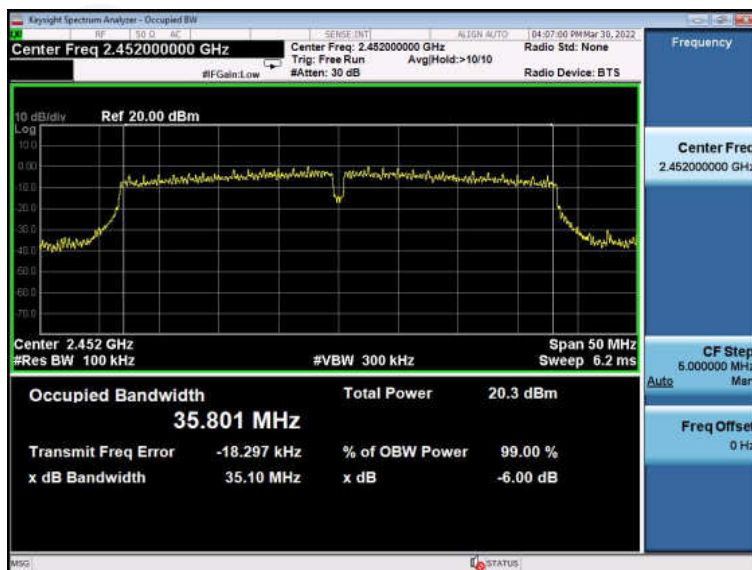
802.11n40
Lowest channel



Middle channel



Highest channel



Ant C

Test plot as follows:

802.11b

Lowest channel



Middle channel



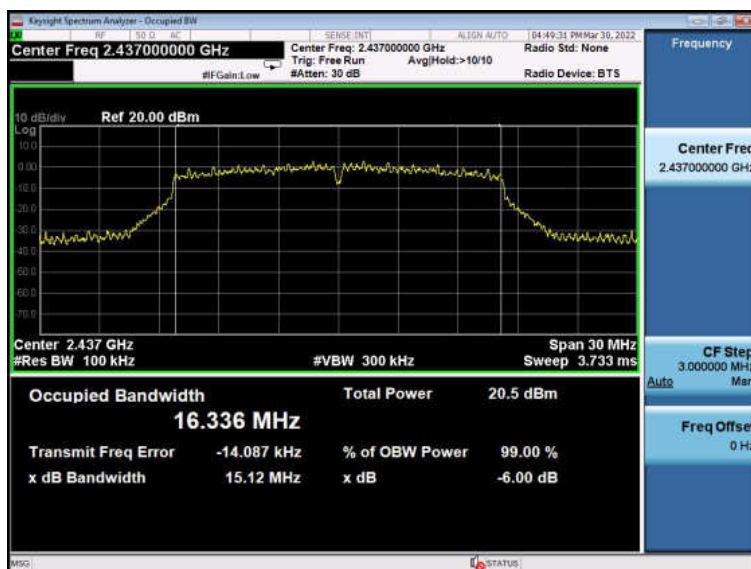
Highest channel



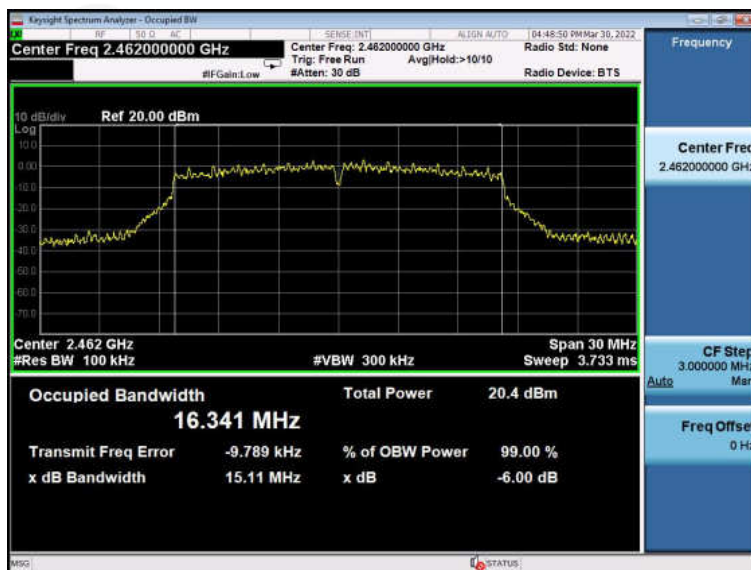
802.11g
Lowest channel



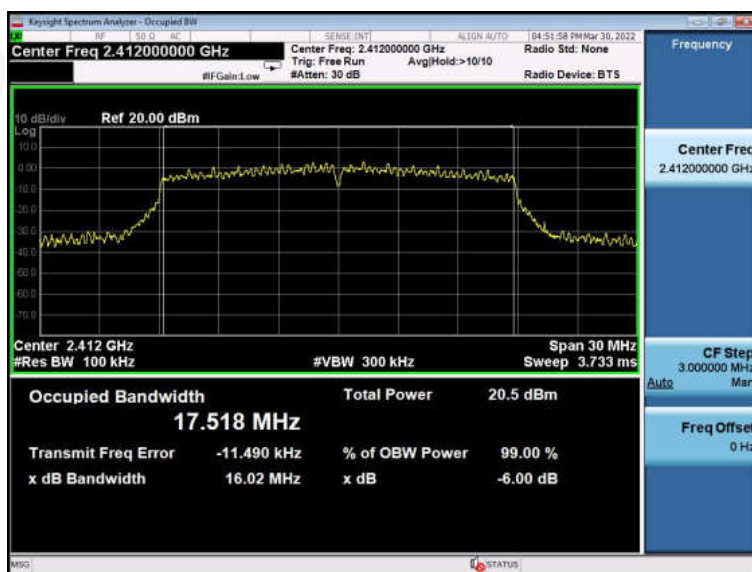
Middle channel



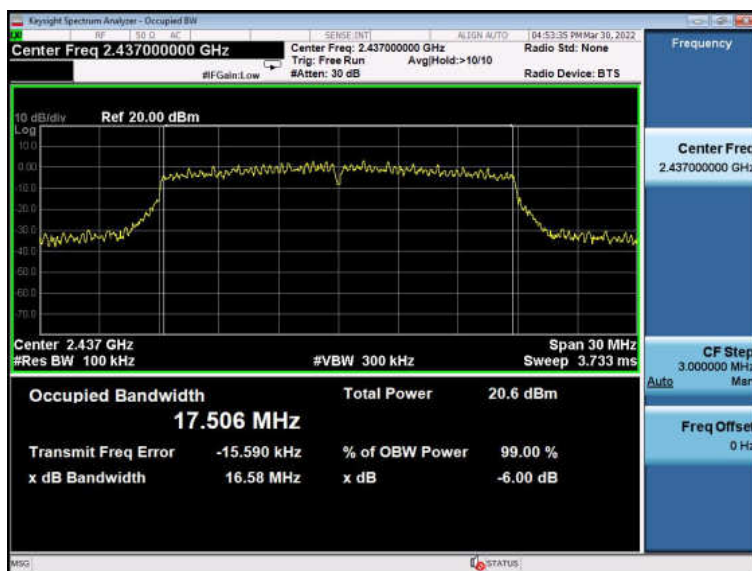
Highest channel



802.11n20
Lowest channel



Middle channel



Highest channel

