

RF TEST REPORT

FCC ID: 2A3NL-AINOTE-AIRH

Test Report No.....: RF260703004-01-010

Product(s) Name.....: AINOTE Air

Model(s).....: AINOTE-Air-H

Trade Mark.....: AISPEECH

Applicant.....: AI Speech Co.,Ltd.

Address.....: No.14 Building, Ascendas iHub Suzhou No.388 Xin Ping Street, Suzhou,
China.

Receipt Date.....: 2026.07.01

Test Date.....: 2026.07.03 ~ 2026.07.28

Issued Date.....: 2026.07.30

Standards.....: 47 CFR FCC Part 15, Subpart C(Section 15.247);
ANSI C63.10: 2020

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

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History of this test report

Original Report Issue Date: 2026.07.30

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 Applicant

AI Speech Co.,Ltd.

No.14 Building, Ascendas iHub Suzhou No.388 Xin Ping Street, Suzhou, China.

1.2 Manufacturer

AI Speech Co.,Ltd.

No.14 Building, Ascendas iHub Suzhou No.388 Xin Ping Street, Suzhou, China.

1.3 Basic Description of Equipment Under Test

Sample No.	POC260703004-S001, POC260703004-S002	
Product name	AINOTE Air	
Model name	AINOTE-Air-H	
Trade Mark	AISPEECH	
Power supply	DC 5V from adapter or DC 3.85V Rechargeable Li-ion battery	
Operate temperature	0°C~40°C	
EUT Stage	○ Product Unit	● Final-Sample
Operating Band and Conducted Output Power (Max power)	2400MHz ~ 2483.5MHz	●IEEE 802.11b:13.90dBm(0.0245W)
Product Type	IEEE 802.11b/g/n: WLAN (SISO)	
Nominal Bandwidth	20MHz / 40MHz	
Modulation	DSSS, OFDM	
Data Rate (Mbps)	IEEE 802.11b mode: 1/2/5.5/11 IEEE 802.11g mode: 6/9/12/18/24/36/48/54 IEEE 802.11n mode: up to 150	
Antenna gain	-1.11dBi	
Antenna type	FPC Antenna	

Eleven channels are provided for 802.11b, 802.11g, 802.11n20:

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400MHz ~ 2483.5 MHz	01	2412MHz	07	2442MHz
	02	2417MHz	08	2447MHz
	03	2422MHz	09	2452MHz
	04	2427MHz	10	2457MHz
	05	2432MHz	11	2462MHz
	06	2437MHz	/	/

Seven channels are provided for 802.11n40:

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400MHz ~ 2483.5 MHz	03	2422 MHz	07	2442MHz
	04	2427MHz	08	2447MHz
	05	2432MHz	09	2452MHz
	06	2437MHz	/	/

1.4 Transmit Operating Mode

Transmit Operating Mode						Transmit Multiple Antennas					
☒	Operating mode 1 (single antenna)					☒	1TX				
☐	Operating mode 2 (multiple antenna, no beam forming)					☐	2TX	☐	3TX	☐	4TX
☐	Operating mode 3 (multiple antenna, with beam forming)					☐	2TX	☐	3TX	☐	4TX
☒	802.11b	Operating mode	☒	1TX	☐	2TX	☐	3TX			
☒	802.11g	Operating mode	☒	1TX	☐	2TX	☐	3TX			
☒	802.11n20	Operating mode	☒	1TX	☐	2TX	☐	3TX			
☒	802.11n40	Operating mode	☒	1TX	☐	2TX	☐	3TX			

2. Summary of Test Results

2.1 Summary of Test Items

47 CFR FCC Part 15, Subpart C (Section 15.247)			
Test item	FCC Clause	Results	Remarks
AC Power Conducted Emission	15.207	Pass	Meet the requirement of the limit
Radiated Emission and Band Edge Measurement	15.205/15.209 /15.247(d)	Pass	Meet the requirement of the limit
Spurious Emission at Antenna Port	15.247(d)	Pass	Meet the requirement of the limit
6dB Bandwidth	15.247(a)(2)	Pass	Meet the requirement of the limit
Maximum Conducted Power	15.247(b)	Pass	Meet the requirement of the limit
Power Spectral Density	15.247(e)	Pass	Meet the requirement of the limit
Antenna Requirements	15.203	Compliance	Note
Note: The EUT has one Integrated antenna arrangement which was permanently attached.			

2.2 Application of Standard

47 CFR FCC Part 15, Subpart C (Section 15.247)

KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10: 2020

2.3 Test Instruments

No.	Name of Equipment	Manufacturer	Model Number	Serial Number	Inventory No.	Last Calibration	Due Calibration
Radiated Emission							
1	Test receiver	Rohde&Schwarz	ESU	100184	JLE011	2026/2/27	2027/2/26
2	Log periodic antenna	Schwarzbeck	VULB 9168	1151	JLE012	2025/4/12	2028/4/11
3	Low frequency amplifier	/	LNA 0920N	2014	JLE023	2026/2/27	2027/2/26
4	High frequency amplifier	Schwarzbeck	BBV 9718	9718-284	JLE024	2026/2/27	2027/2/26
5	Horn Antenna	SCHWARZBECK	BBHA 9120 D	02670	JLE028	2025/4/12	2028/4/11
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE021	2026/4/08	2027/4/07
7	Horn Antenna	SCHWARZBECK	BBHA 9170	9170#685	JLE029	2024/7/15	2027/7/14
8	Loop Antenna	SCHWARZBECK	FMZB1519B	00029	JLE030	2024/7/15	2027/7/14
9	Broadband preamplifier	Schwarzbeck	BBV9721	9721-019	JLE025	2026/2/27	2027/2/26
10	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
RF Conducted Emissions							
1	MXA Signal Analyzer	Keysight	N9010A	MY51440158	JLE087	2025/9/15	2026/9/14
2	RF Control Unit	dsusoft	JS0806-2	21G8060449	JLE053	2026/2/27	2027/2/26
3	power supply unit	dsusoft	JS0806-4ADC	N/A	JLE055	2026/2/27	2027/2/26
4	SPECTRUM ANALYZER	R/S	FSV40-N	101425	JLE120	2026/1/19	2027/1/18
5	VXG Signal Generator	Keysight	N5182B	MY59100855	JLE068	2026/4/14	2027/4/13
6	EXG Analog Signal Generator	Keysight	N5173B	MY59101282	JLE052	2026/2/27	2027/2/26
7	Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	1201.0002K5 0-116064-Dt	JLE054	2026/2/27	2027/2/26
8	Test software	dsusoft	JS1120-3 Ver.3.2.22.0				
Conducted Emission							
1	LISN	Rohde&Schwarz	ENV216	100075	JLE002	2026/2/27	2027/2/26
2	ISN	Schwarzbeck	CATE 5 8158	#171	JLE003	2026/2/27	2027/2/26
3	ISN	Schwarzbeck	CAT 3 8158	00187	JLE032	2026/2/27	2027/2/26
4	Test receiver	Rohde&Schwarz	ESCI	100718	JLE010	2026/2/27	2027/2/26
5	Pulse limiter	Rohde&Schwarz	ESH3-Z2	102299	JLE047	2026/2/27	2027/2/26
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE020	2026/4/08	2027/4/07
7	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				

2.4 Test Mode

Test Items	Mode	Data Rate	Channel
Radiated Emission and Band Edge Measurement	802.11b	1Mbps	01/06/11
	802.11g	6Mbps	01/06/11
	802.11n20SISO	MCS0	01/06/11
	802.11n40SISO	MCS0	03/06/09
Spurious Emission at Antenna Port	802.11b	1Mbps	01/06/11
	802.11g	6Mbps	01/06/11
	802.11n20SISO	MCS0	01/06/11
	802.11n40SISO	MCS0	03/06/09
6dB Bandwidth	802.11b	1Mbps	01/06/11
	802.11g	6Mbps	01/06/11
	802.11n20SISO	MCS0	01/06/11
	802.11n40SISO	MCS0	03/06/09
Maximum Conducted Power	802.11b	1Mbps	01/06/11
	802.11g	6Mbps	01/06/11
	802.11n20SISO	MCS0	01/06/11
	802.11n40SISO	MCS0	03/06/09
Power Spectral Density	802.11b	1Mbps	01/06/11
	802.11g	6Mbps	01/06/11
	802.11n20SISO	MCS0	01/06/11
	802.11n40SISO	MCS0	03/06/09

Note: For Radiated Emission below 1GHz, only worst case was recorded.

2.5 Test Condition

Applicable to	Environmental conditions	Input Power	Tested by
Radiated Emission and Band Edge Measurement	22.6°C, 48% RH	AC 120V/60Hz	Keith Huang
Spurious Emission at Antenna Port	21.4°C, 46% RH	AC 120V/60Hz	Lemon He
6dB Bandwidth	21.4°C, 46% RH	AC 120V/60Hz	Lemon He
Maximum Conducted Power	21.4°C, 46% RH	AC 120V/60Hz	Lemon He
Power Spectral Density	21.4°C, 46% RH	AC 120V/60Hz	Lemon He
AC Power Line Conducted Emissions	22.7°C, 53% RH	AC 120V/60Hz	Lemon He

Note:

The applicant declare the operating environment of EUT as below:

Normal conditions: AC 120V/60Hz, 0~40°C

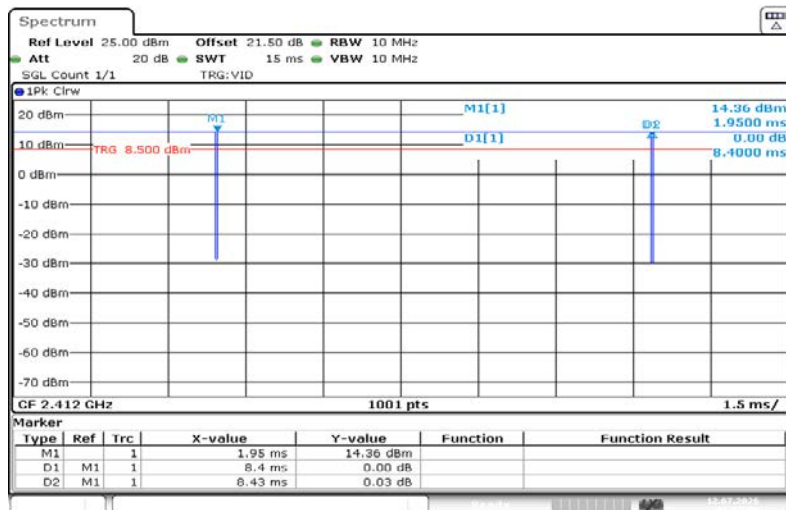
2.6 Duty Cycle of Test Signal

If duty cycle is $\geq 98\%$, duty factor is not required.

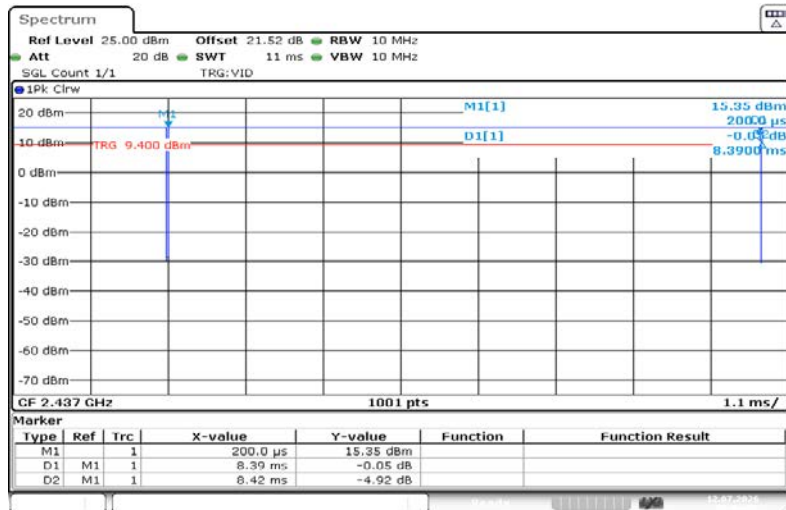
If duty cycle is $< 98\%$, duty factor shall be considered.

All the duty factor of other test mode have been considered.

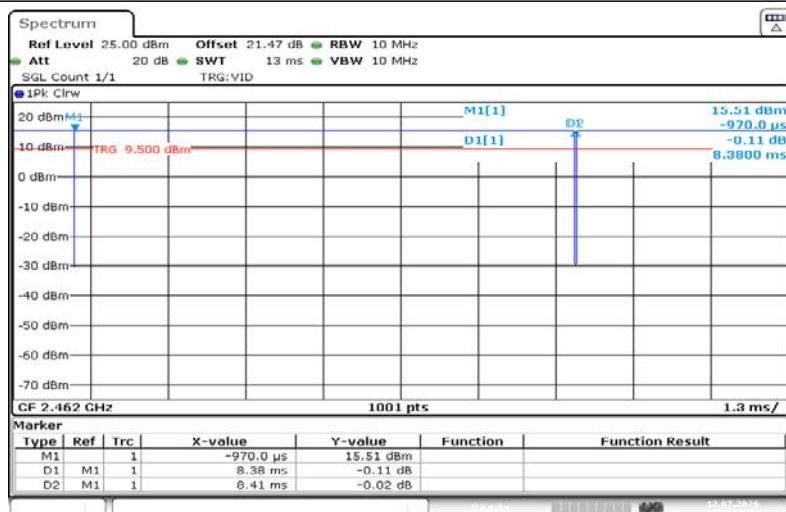
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.40	8.43	99.64	0.02
11B	Ant1	2437	8.39	8.42	99.64	0.02
11B	Ant1	2462	8.38	8.41	99.64	0.02
11G	Ant1	2412	1.39	1.42	97.89	0.09
11G	Ant1	2437	1.40	1.43	97.90	0.09
11G	Ant1	2462	1.40	1.43	97.90	0.09
11N20SISO	Ant1	2412	1.30	1.34	97.01	0.13
11N20SISO	Ant1	2437	1.31	1.34	97.76	0.10
11N20SISO	Ant1	2462	1.30	1.33	97.74	0.10
11N40SISO	Ant1	2422	0.65	0.68	95.59	0.20
11N40SISO	Ant1	2437	0.65	0.69	94.20	0.26
11N40SISO	Ant1	2452	0.65	0.69	94.20	0.26



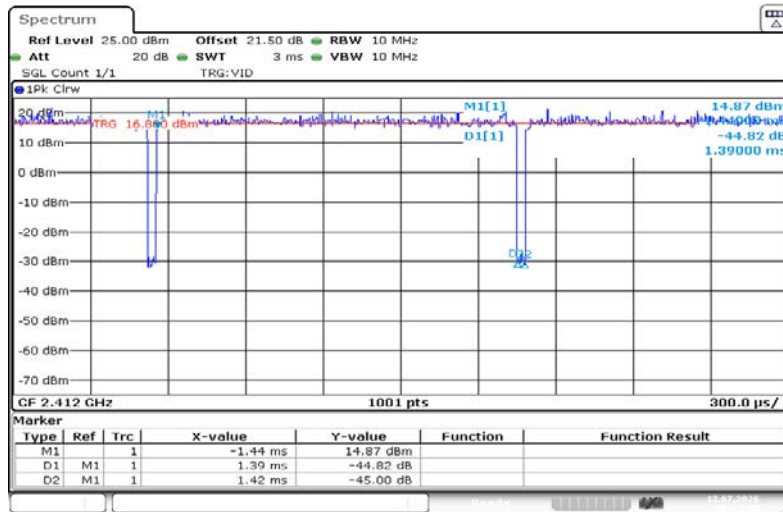
NTNV-11B-Ant1-2412



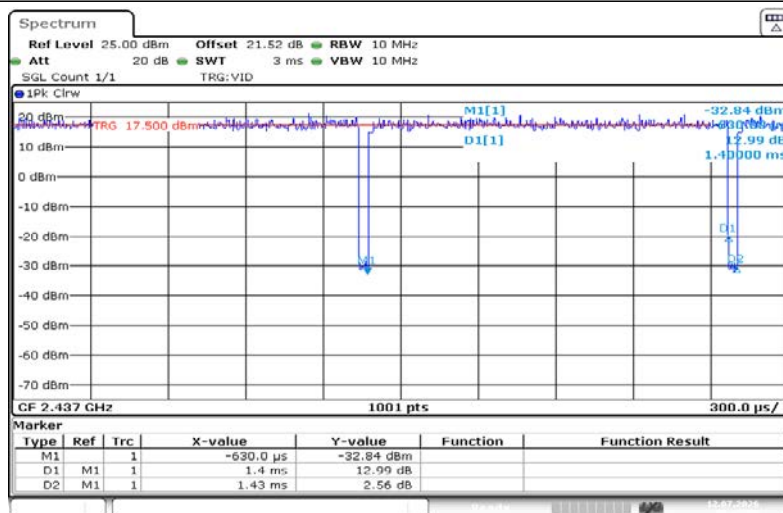
NTNV-11B-Ant1-2437



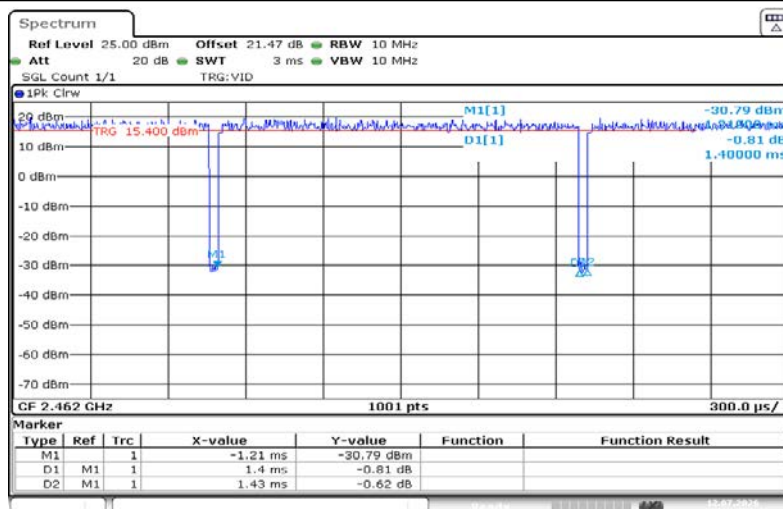
NTNV-11B-Ant1-2462



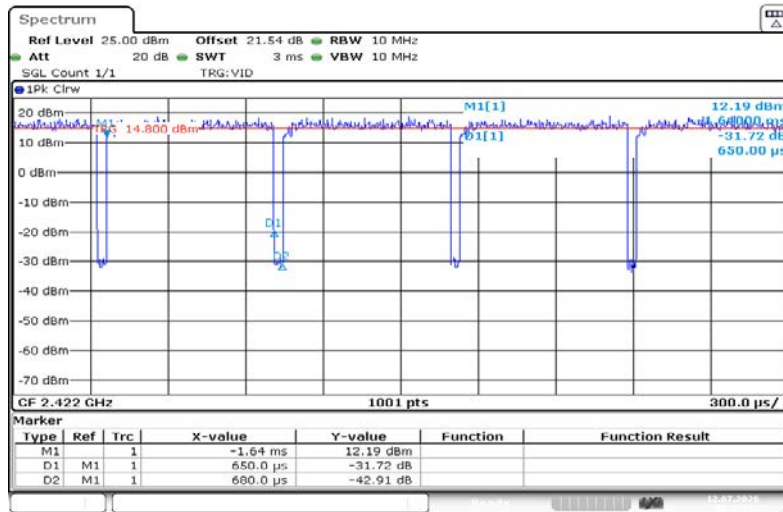
NTNV-11G-Ant1-2412



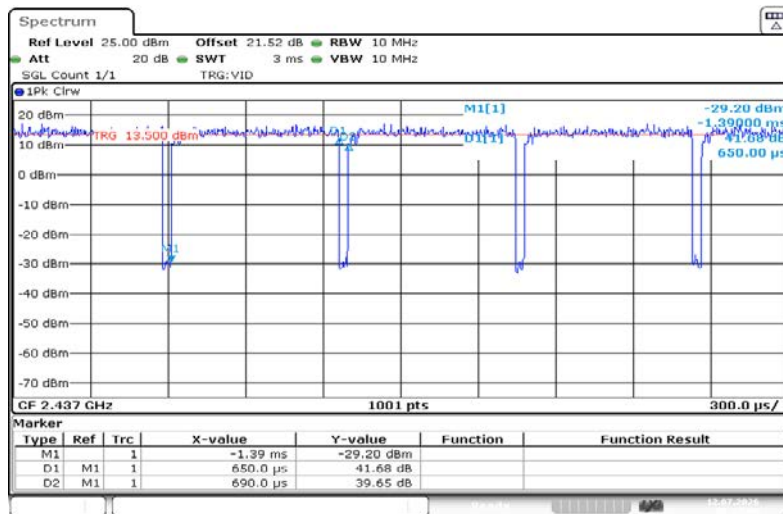
NTNV-11G-Ant1-2437



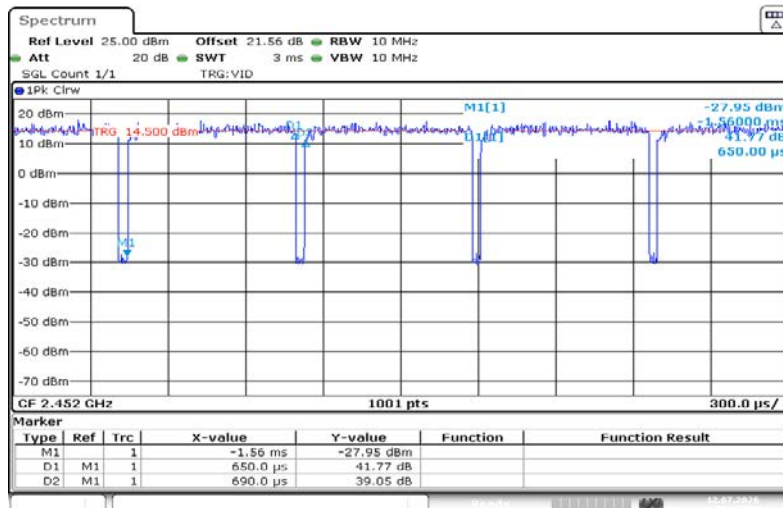
NTNV-11G-Ant1-2462



NTVN-11N40SISO-Ant1-2422



NTVN-11N40SISO-Ant1-2437



NTVN-11N40SISO-Ant1-2452

2.7 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	±102kHz
RF power conducted	±0.243dB
Power Spectral Density	±0.743dB
Conducted Spurious Emission	±1.328dB
Conducted emission(9kHz~30MHz) AC main	±2.68dB
Radiated emission(9kHz~30MHz)	±3.50dB
Radiated emission (30MHz~1GHz)	±4.20dB
Radiated emission (1GHz~18GHz)	±5.10dB
Radiated emission (18GHz~40GHz)	±5.26dB

2.8 Test Location

Company:	Shenzhen Haiyun Standard Technical Co., Ltd.
Address:	No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China
CNAS Registration Number:	CNAS L18252
CAB identifier	CN0145
A2LA Certificate Number	6823.01

2.9 Description of Support Units

No.	Equipment	Model	Manufacturer	Rating
1	PC	M4500T	Thinkpad	/
2	Adapter	SG-0502000AU	/	Input: 100-240V~, 50-60Hz, 0.3A max Output: 5.0V $\overline{\text{---}}$ 2.0A; 10.0W
3	/	/	/	/

3. Test Procedure And Results

3.1 AC Power Line Conducted Emission

3.1.1 Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

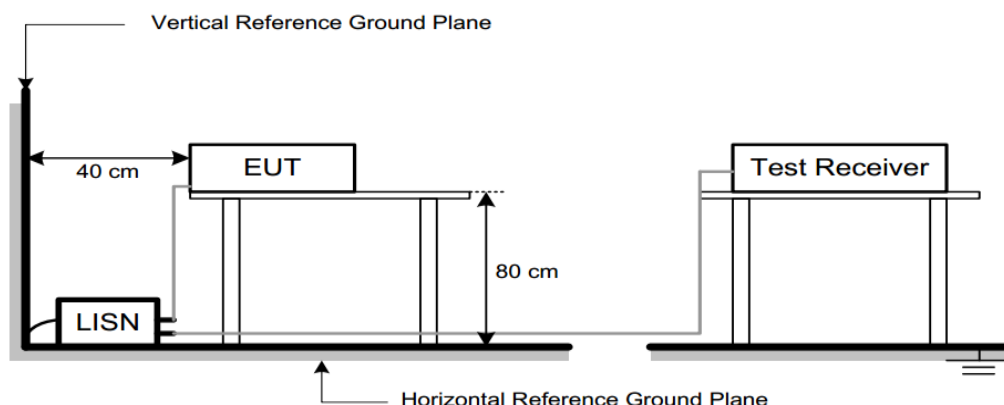
3.1.2 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☐ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme

Note: ☒ : Test ☐ : No Test

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

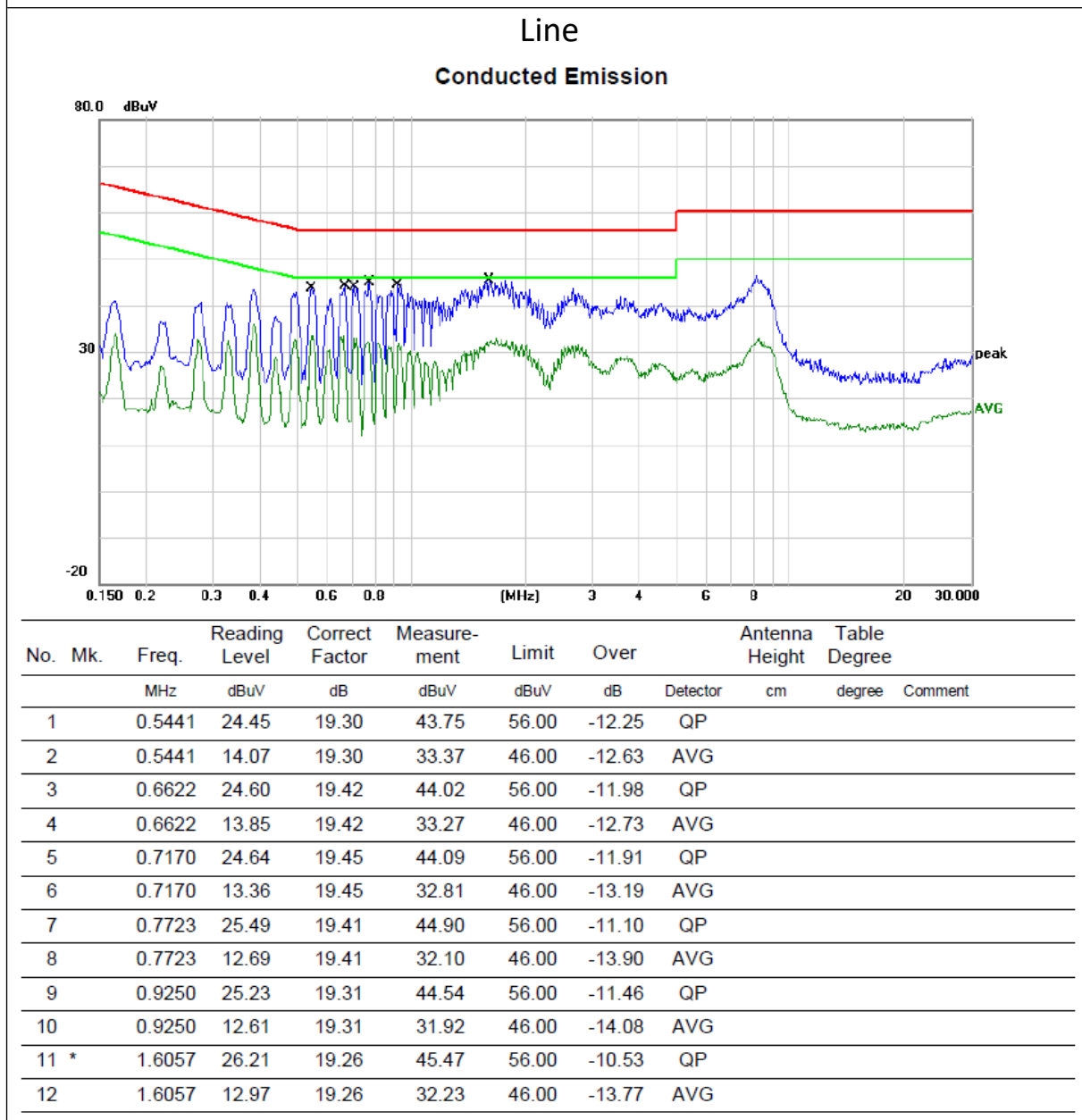
3.1.3 Test Setup



3.1.4 Test Result

Product Model	AINOTE-Air-H	RBW	9 kHz
Environmental Conditions	22.7°C, 53% RH	Test Mode	Mode 1
Tested by	Lemon he	Test Results	PASS
Test Date	2026-07-21		

Note: AC 120V/60Hz

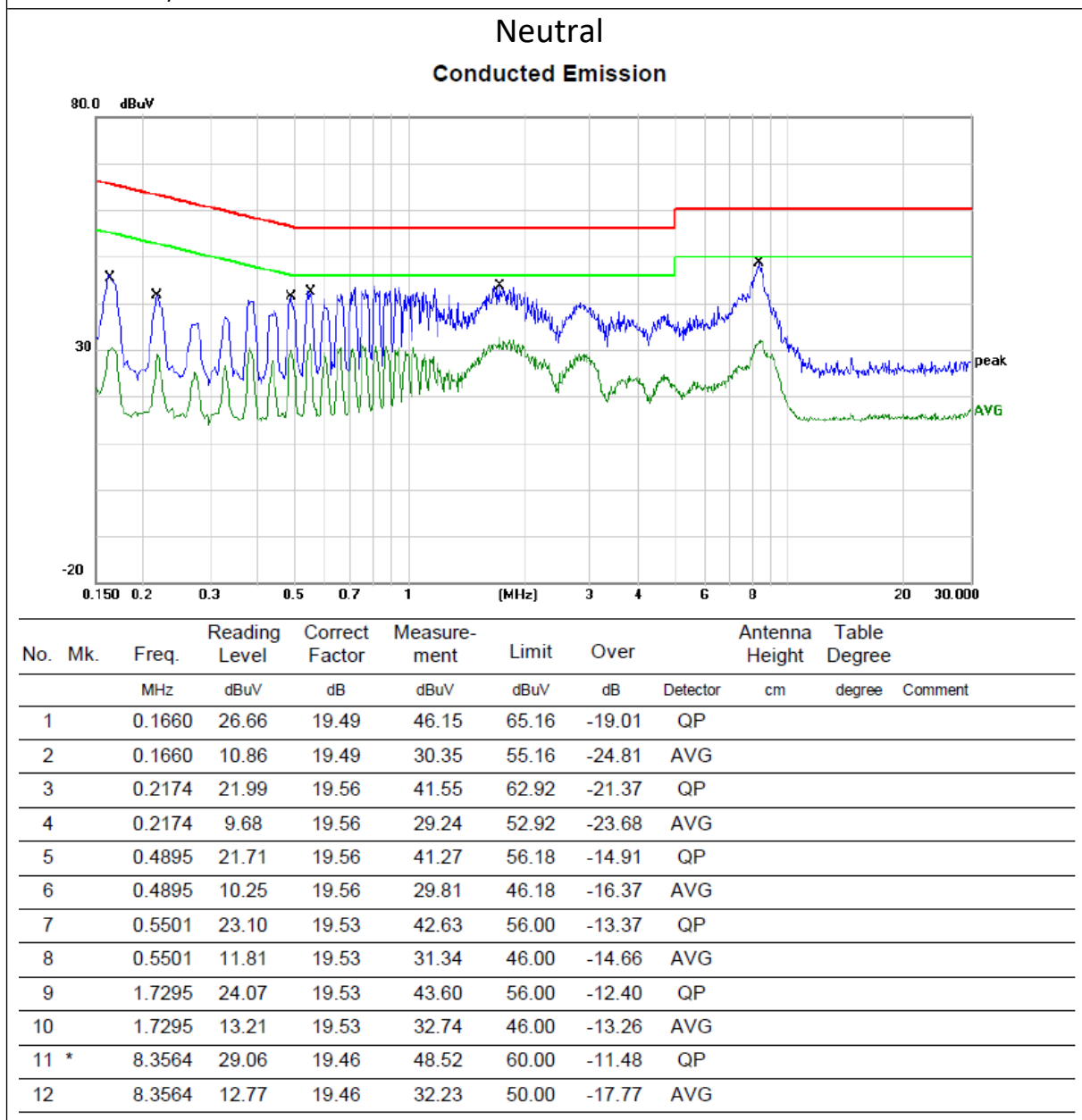


Note: 1.The other emission levels were very low against the limit.

2. Measurement = Reading Level+ Correct Factor, Over = Measurement- Limit

Product Model	AINOTE-Air-H	RBW	9 kHz
Environmental Conditions	22.7°C, 53% RH	Test Mode	Mode 1
Tested by	Lemon He	Test Results	PASS
Test Date	2026-07-21		

Note: AC 120V/60Hz



Note: 1.The other emission levels were very low against the limit.

2. Measurement = Reading Level+ Correct Factor, Over = Measurement- Limit

3.2 Radiated Emission and Band Edge

3.2.1 Limit

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency (MHz)	Distance Meters(m)	Field Strength Limit	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 – 0.49	300	$2400/\text{F}(\text{kHz})$	-
0.490 – 1.705	30	$24000/\text{F}(\text{kHz})$	-
1.705 – 30	30	30	-
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Note: (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$
(2) The smaller limit shall apply at the cross point between two frequency bands.
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.2.2 Test Procedure

Test Method	
☐ Conducted Measurement	☒ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme

Note: ☒ : Test ☐ : No Test

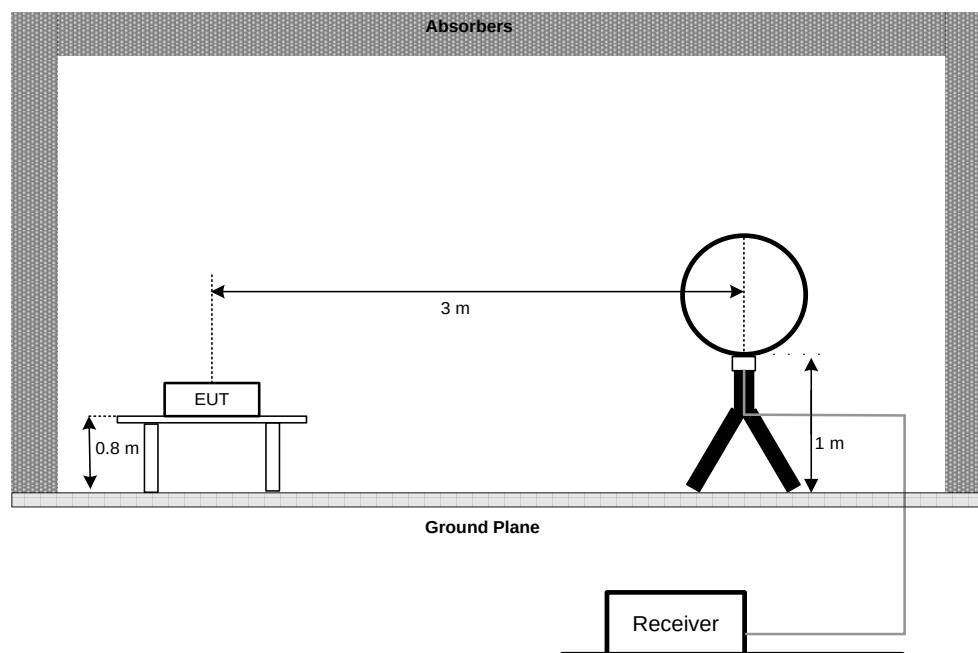
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance 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)
- 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.
- 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).

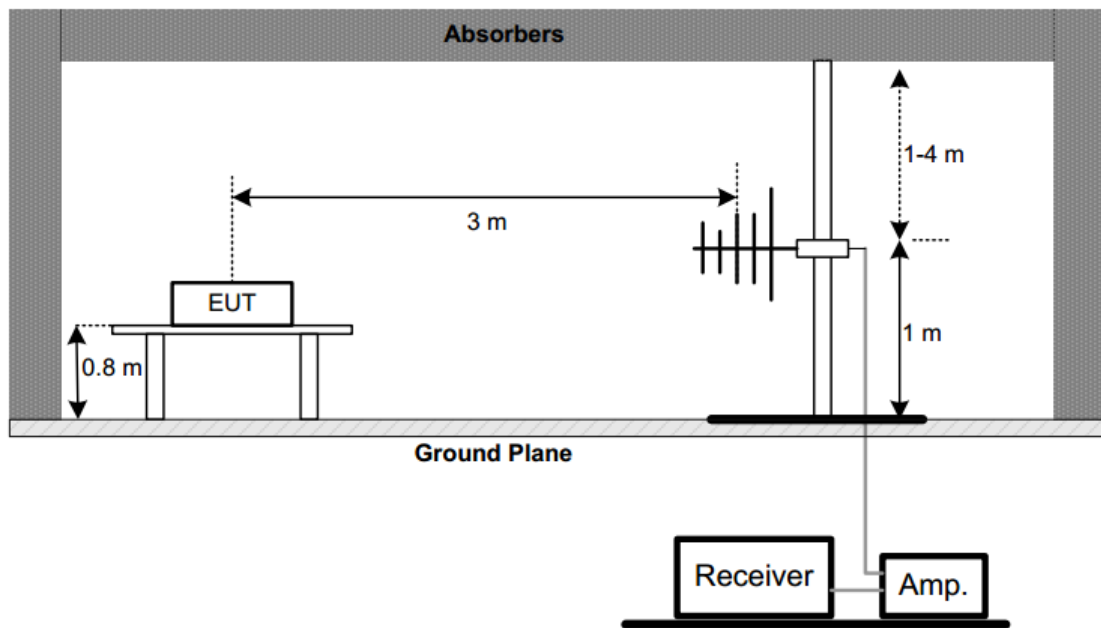
- e) The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f) The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant 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 1 GHz)
- 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 1 GHz)
- i) For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.2.3 Test Setup

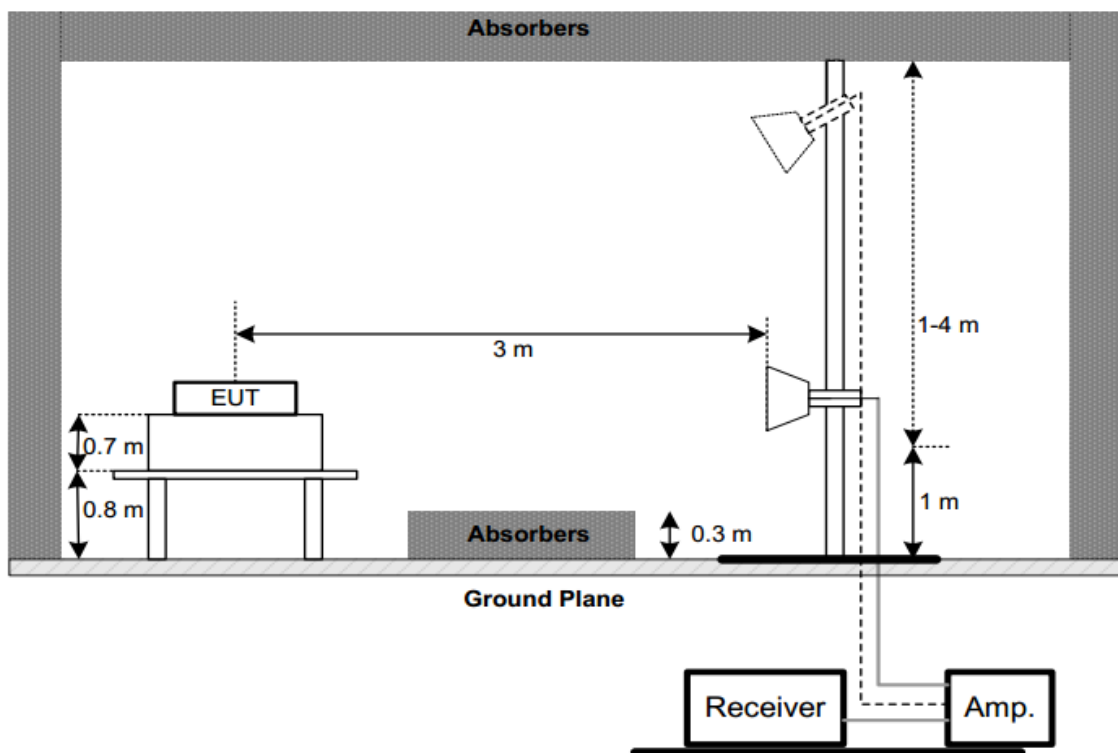
(A) Radiated Emission Test Set-Up Frequency Below 30 MHz



(B) Radiated Emission Test Set-Up Frequency 30 MHz-1000 MHz



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



3.2.4 Test Result

1) Radiated emission: 9kHz-30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not recorded in this report.

2) Radiated emission: 30MHz-1GHz

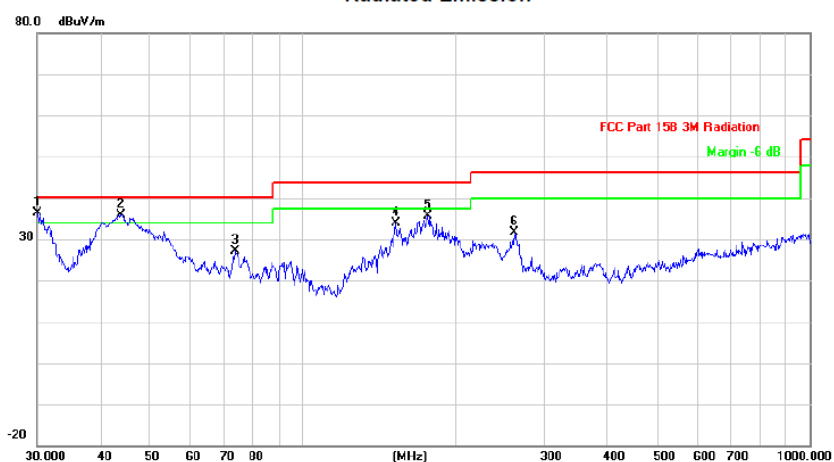
Note:

1. Measurement = Reading + Correct Factor.
2. Over = Measurement – Limit

We only recorded the data of the worst mode. Please see the following:

VERTICAL

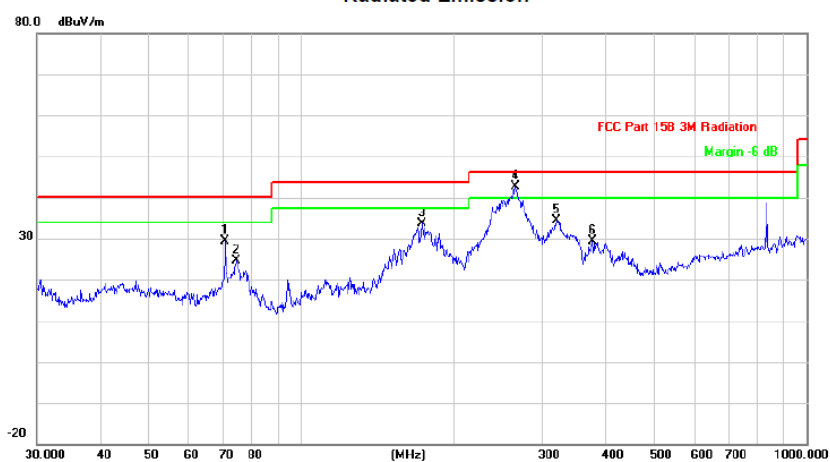
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	30.1200	47.24	-10.93	36.31	40.00	-3.69	peak		
2	!	43.8600	46.39	-10.39	36.00	40.00	-4.00	peak		
3		73.8000	40.86	-13.78	27.08	40.00	-12.92	peak		
4		153.0300	43.60	-9.69	33.91	43.50	-9.59	peak		
5		176.9100	47.05	-11.43	35.62	43.50	-7.88	peak		
6		262.1400	43.33	-11.61	31.72	46.00	-14.28	peak		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		70.8315	43.33	-13.94	29.39	40.00	-10.61	peak		
2		74.3955	38.15	-13.63	24.52	40.00	-15.48	peak		
3		173.2051	44.56	-10.93	33.63	43.50	-9.87	peak		
4	*	265.6757	53.96	-11.24	42.72	46.00	-3.28	peak		
5		319.9370	43.62	-9.23	34.39	46.00	-11.61	peak		
6		377.2591	37.95	-8.59	29.36	46.00	-16.64	peak		

3) Radiated emission: Above 1GHz

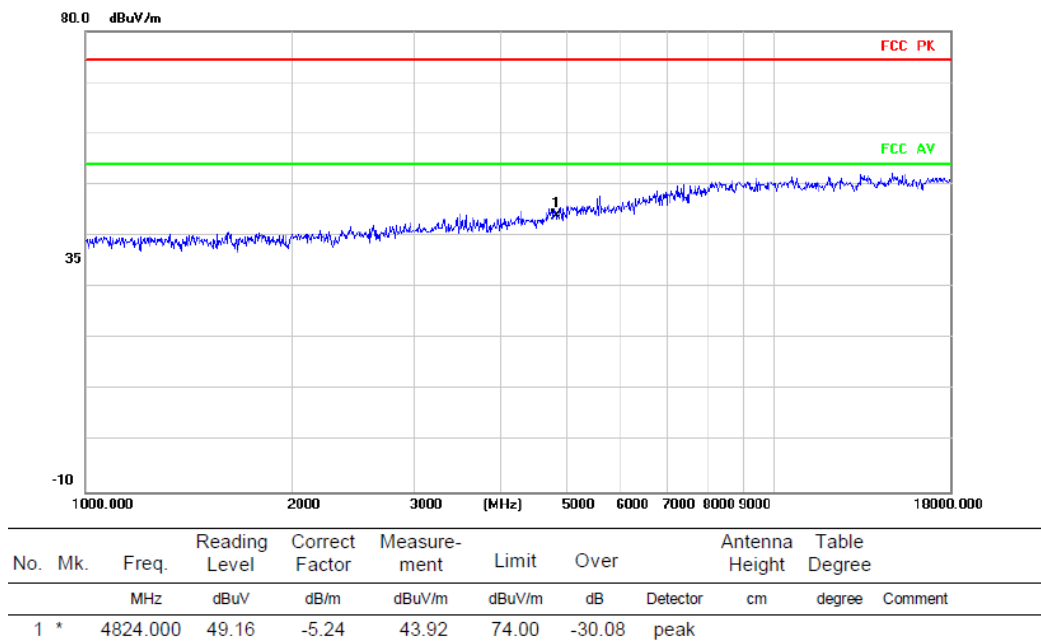
Note:

1. Measurement = Reading + Correct Factor.
2. Over = Measurement – Limit

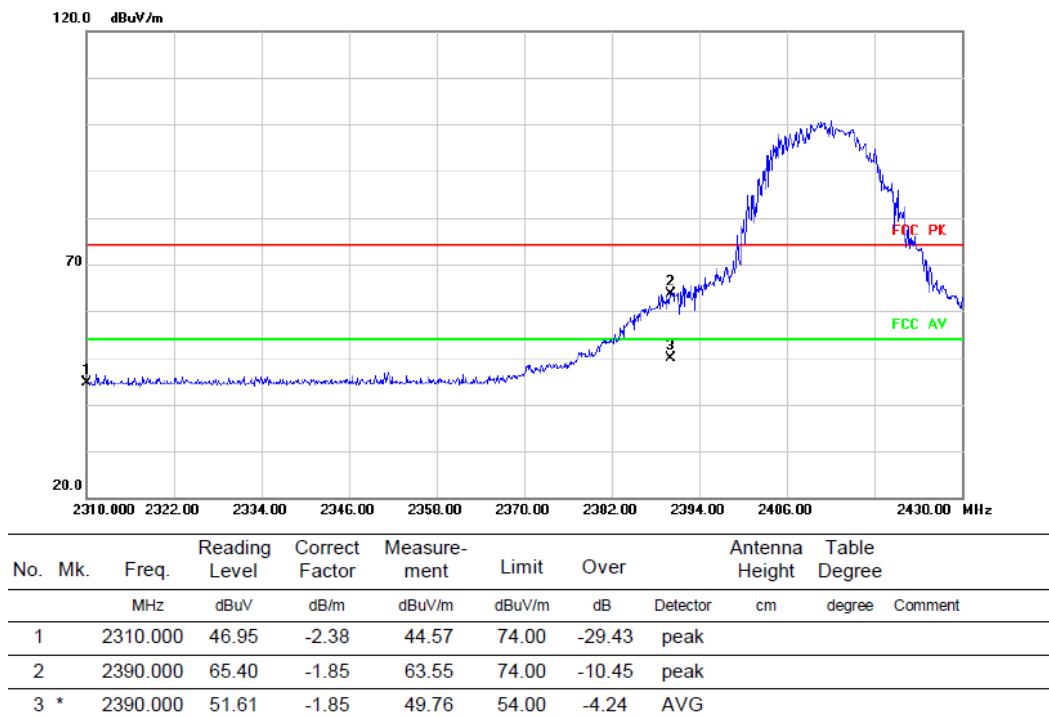
Above 1GHz (1GHz~18GHz)	Test mode:11B	Test Channel:1
-------------------------	---------------	----------------

VERTICAL

Radiated Emission

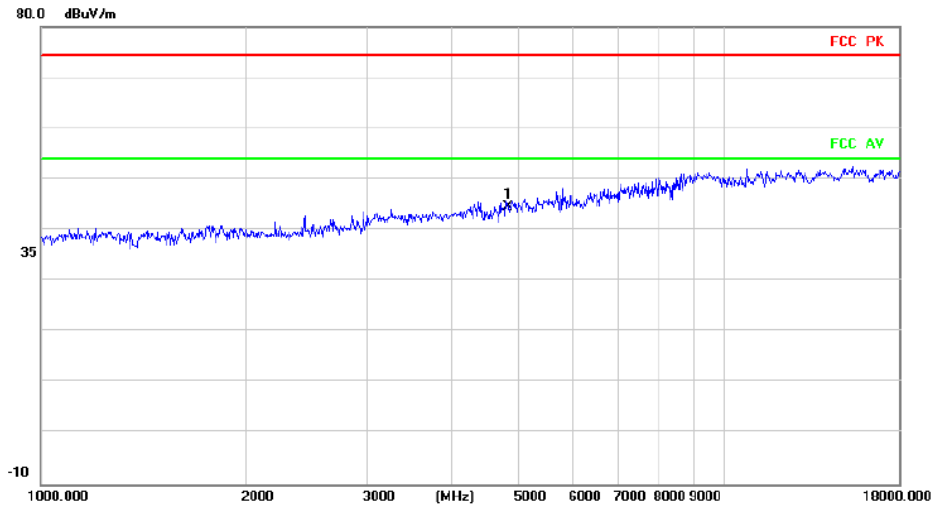


Radiated Emission



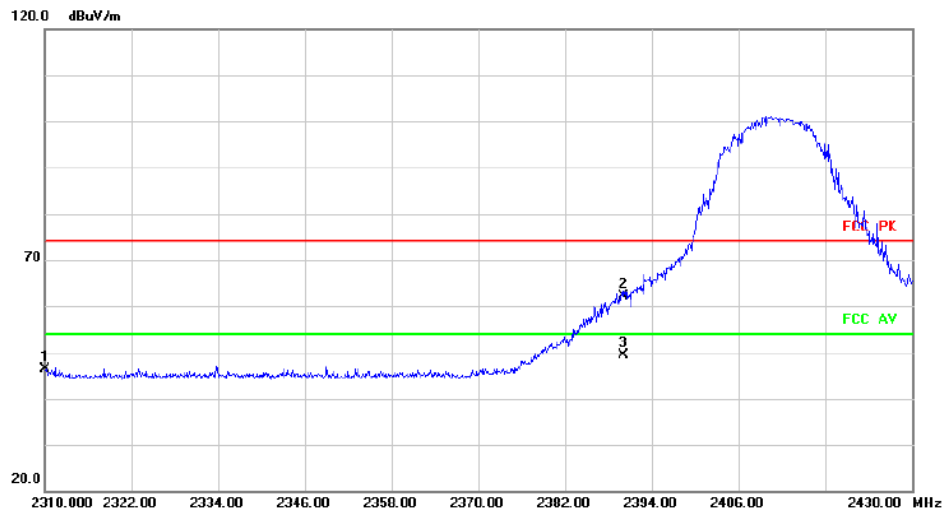
HORIZONTALA

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	4824.000	49.82	-5.24	44.58	74.00	-29.42	peak	

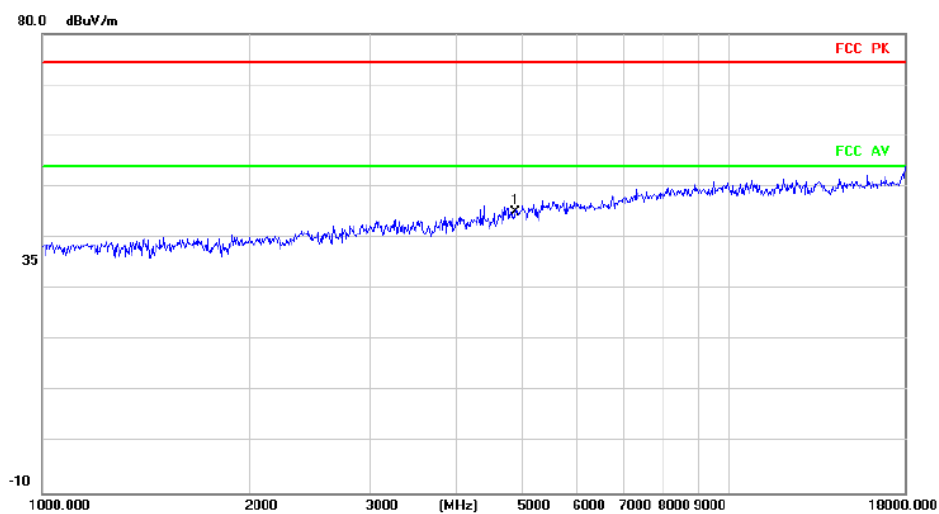
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2310.000	48.83	-2.38	46.45	74.00	-27.55	peak	
2		2390.000	63.90	-1.85	62.05	74.00	-11.95	peak	
3	*	2390.000	51.28	-1.85	49.43	54.00	-4.57	AVG	

VERTICAL

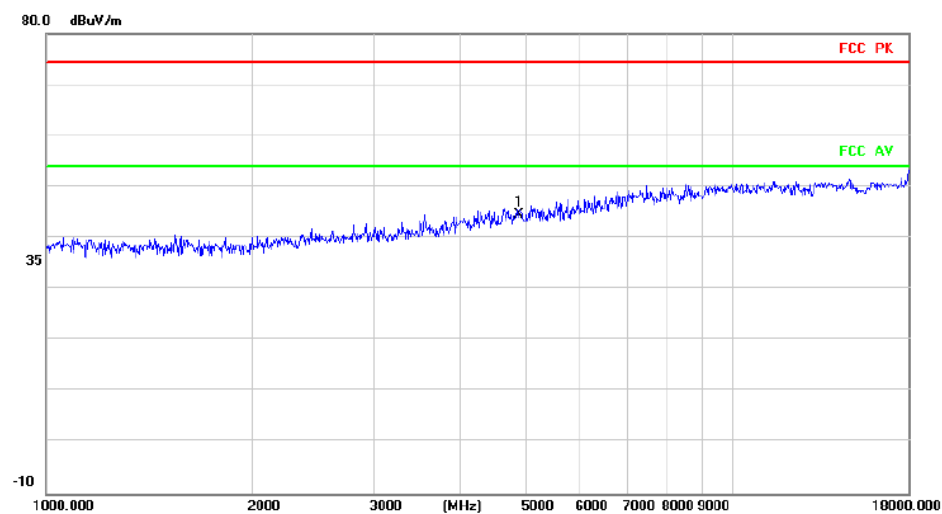
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	4874.000	50.11	-5.16	44.95	74.00	-29.05	peak	

HORIZONTAL

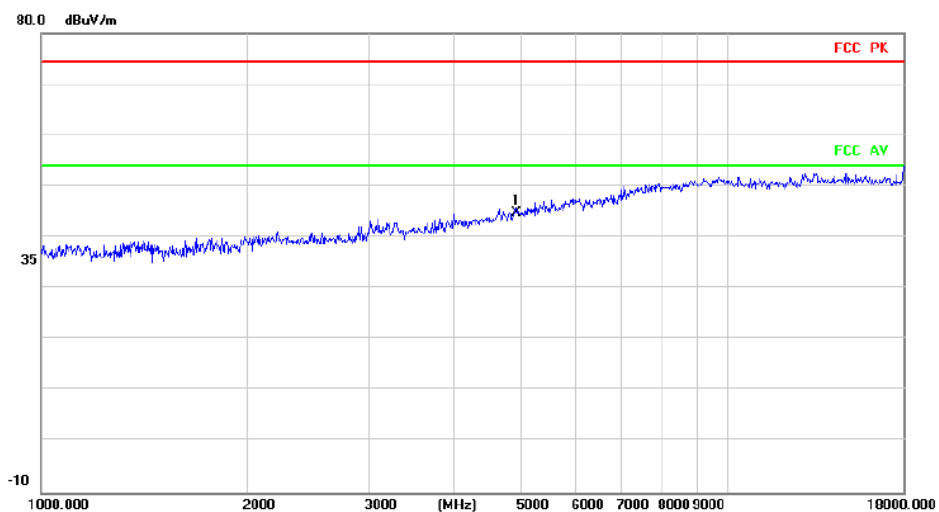
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	4874.000	49.75	-5.16	44.59	74.00	-29.41	peak	

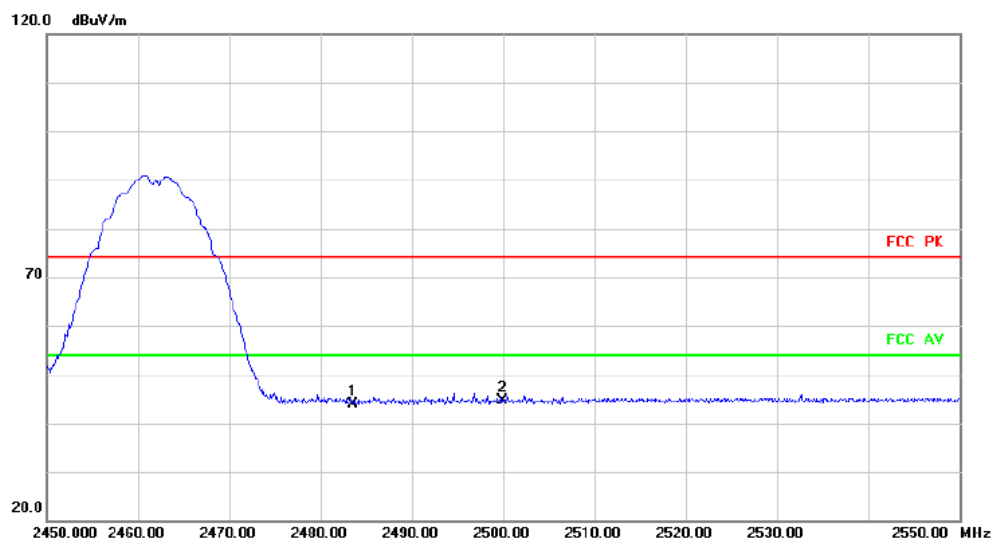
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	4924.000	49.71	-4.94	44.77	74.00	-29.23	peak	

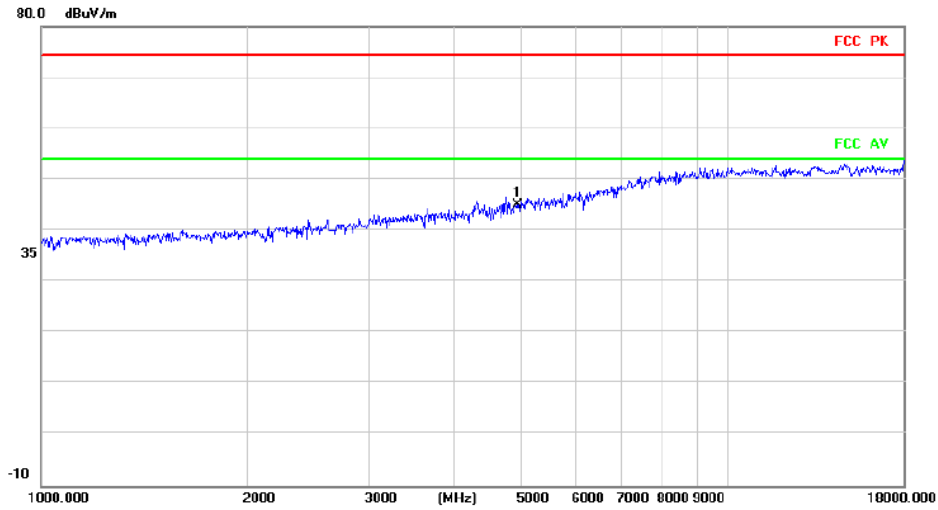
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2483.500	44.93	-0.95	43.98	74.00	-30.02	peak	
2	*	2500.000	45.48	-0.79	44.69	74.00	-29.31	peak	

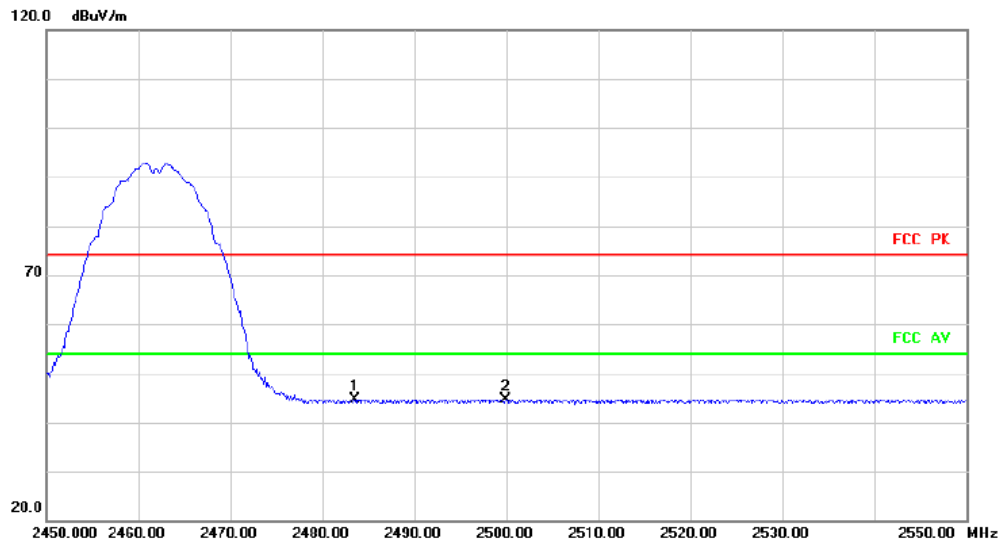
HORIZONTALA

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	4924.000	50.01	-4.94	45.07	74.00	-28.93	peak	

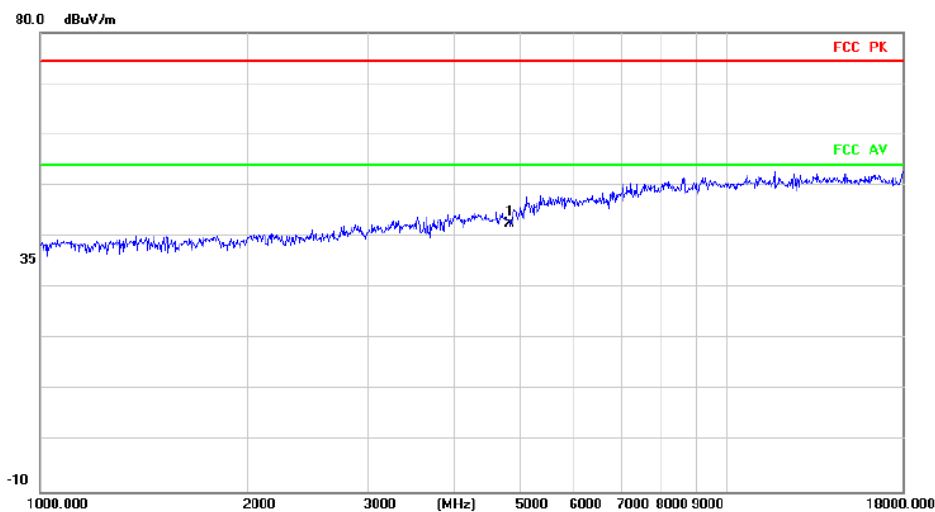
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	2483.500	45.66	-0.95	44.71	74.00	-29.29	peak	
2		2500.000	45.35	-0.79	44.56	74.00	-29.44	peak	

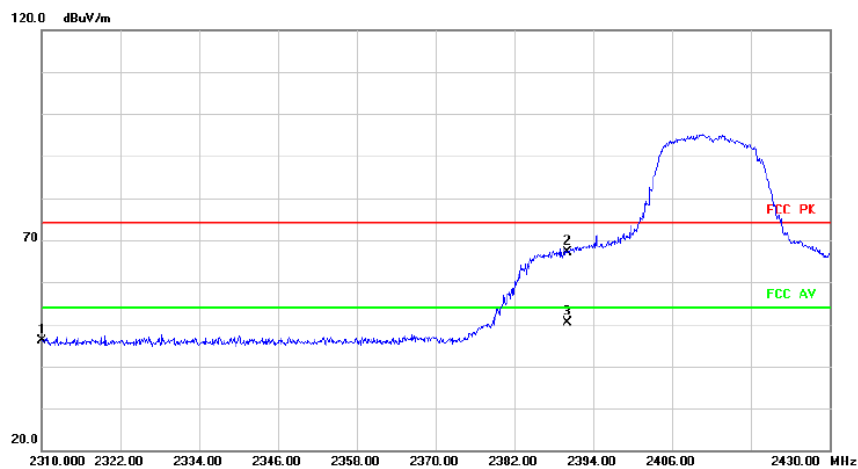
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	4824.000	47.87	-5.24	42.63	74.00	-31.37	peak		Comment

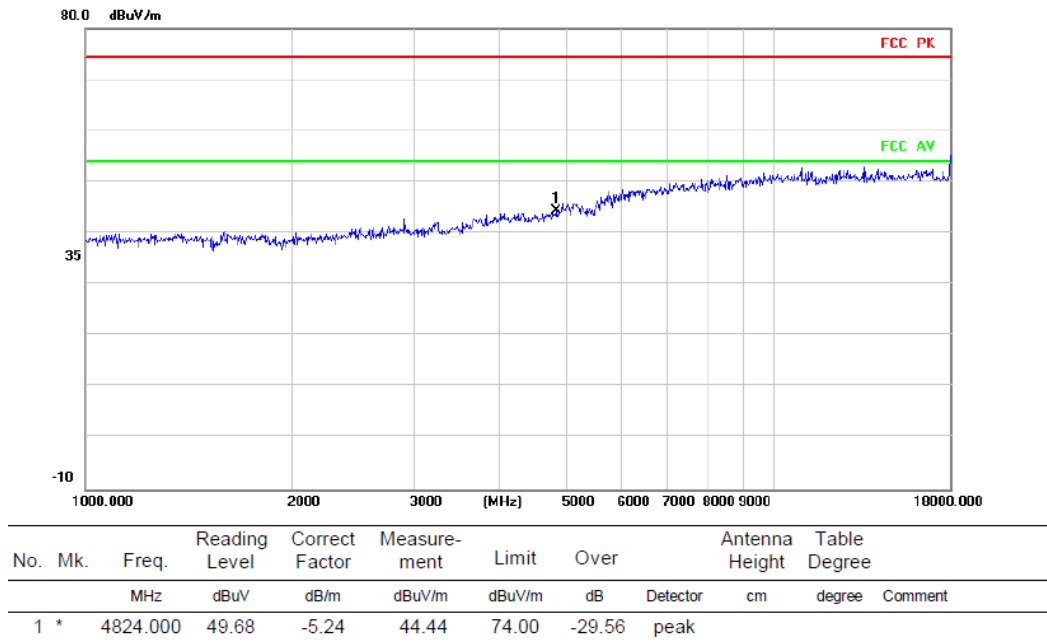
Radiated Emission



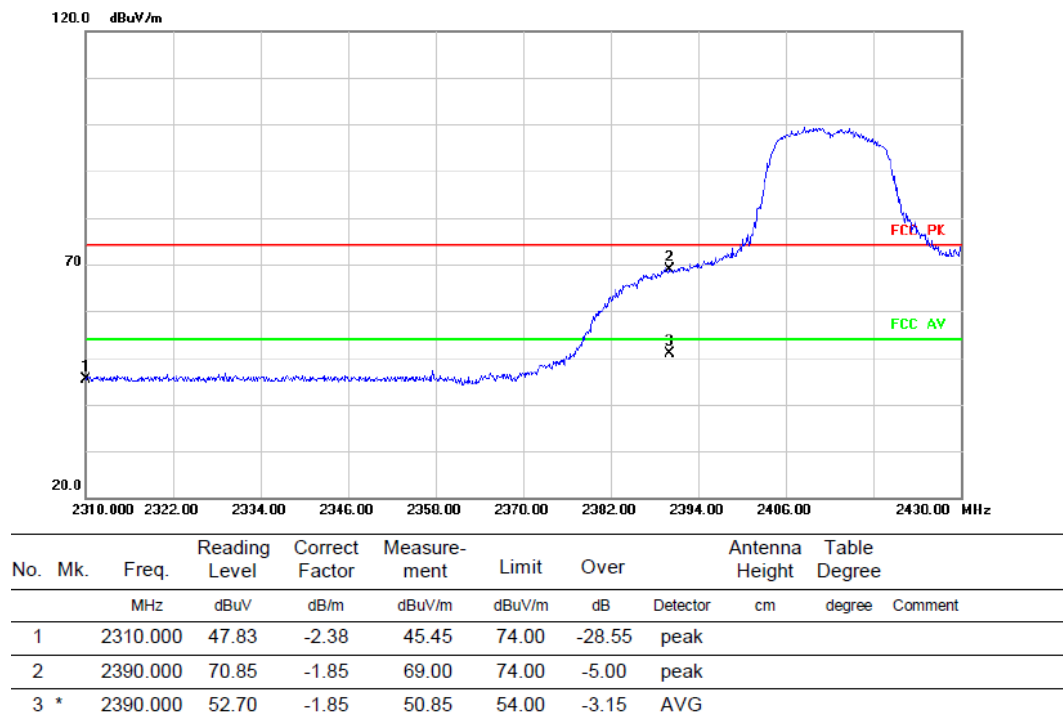
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2310.000	48.49	-2.38	46.11	74.00	-27.89	peak		Comment
2		2390.000	68.92	-1.85	67.07	74.00	-6.93	peak		
3	*	2390.000	52.28	-1.85	50.43	54.00	-3.57	AVG		

HORIZONTALA

Radiated Emission

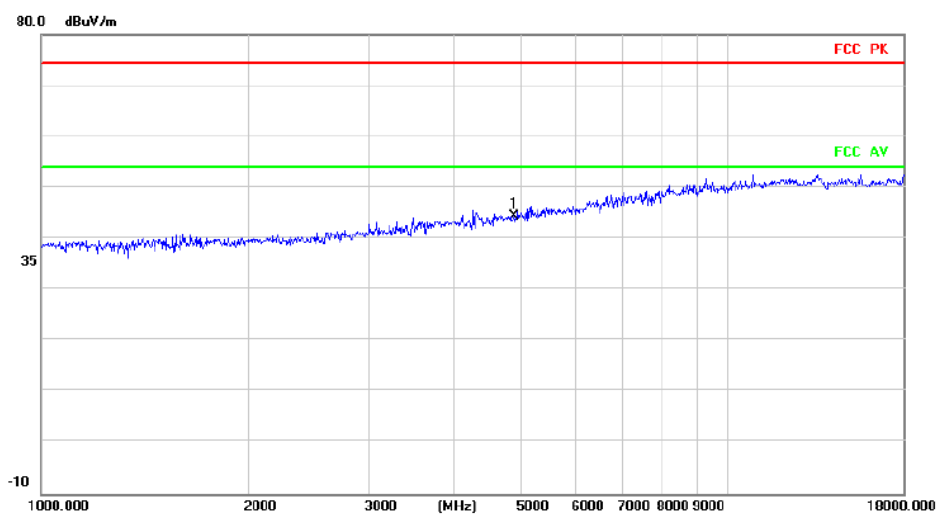


Radiated Emission



VERTICAL

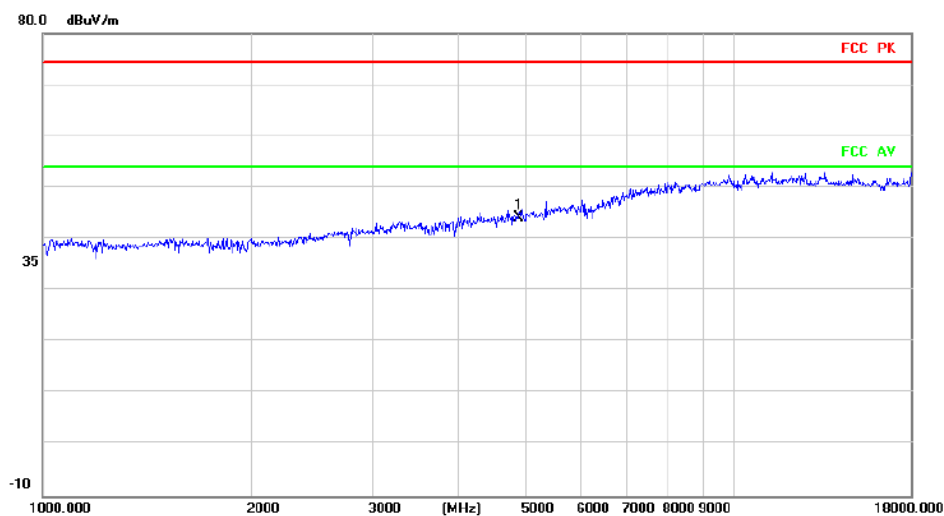
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	4874.000	49.44	-5.16	44.28	74.00	-29.72 peak		

HORIZONTAL

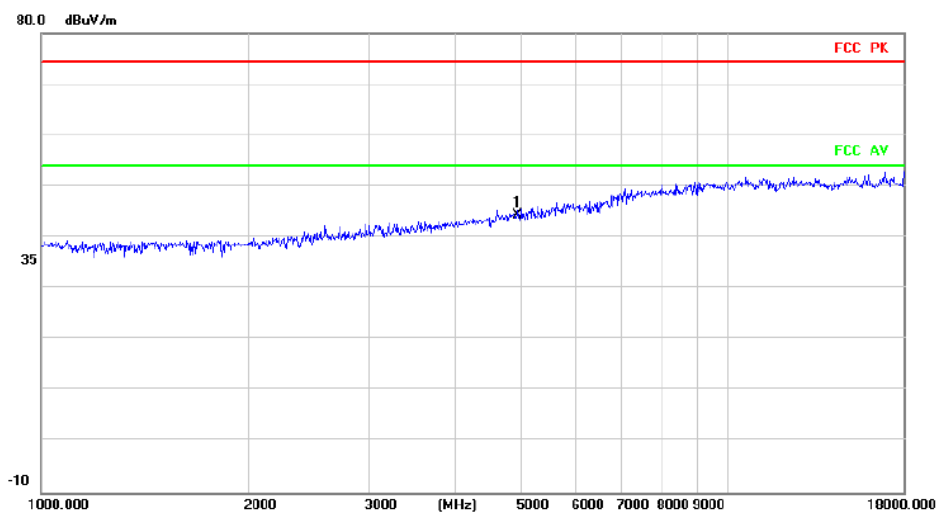
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	4874.000	49.35	-5.16	44.19	74.00	-29.81 peak		

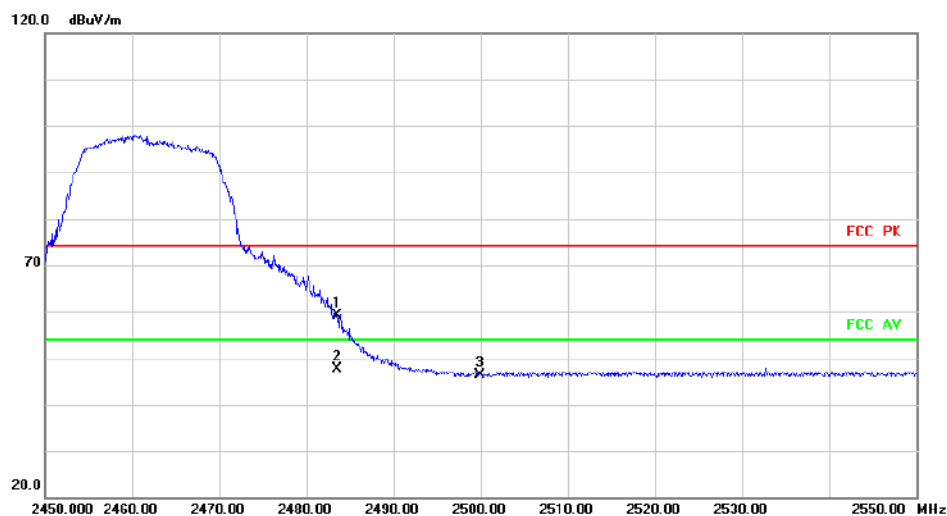
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	4924.000	49.32	-4.94	44.38	74.00	-29.62 peak		

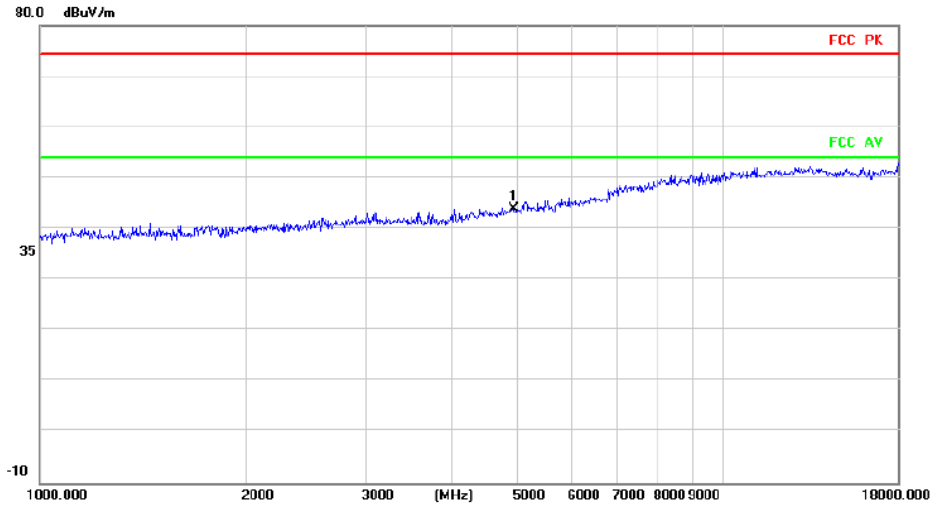
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2483.500	59.98	-0.95	59.03	74.00	-14.97 peak		
2	*	2483.500	48.53	-0.95	47.58	54.00	-6.42 AVG		
3		2500.000	47.12	-0.79	46.33	74.00	-27.67 peak		

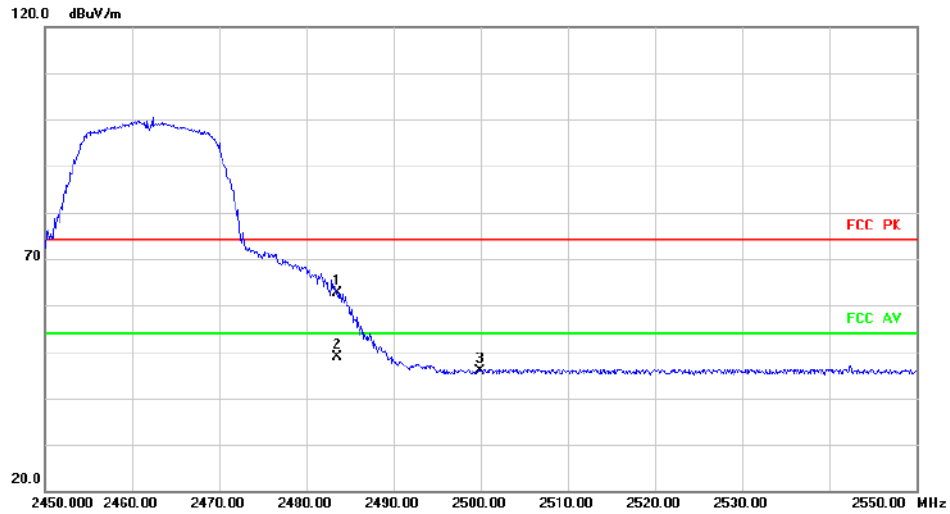
HORIZONTALA

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	4924.000	48.80	-4.94	43.86	74.00	-30.14	peak	

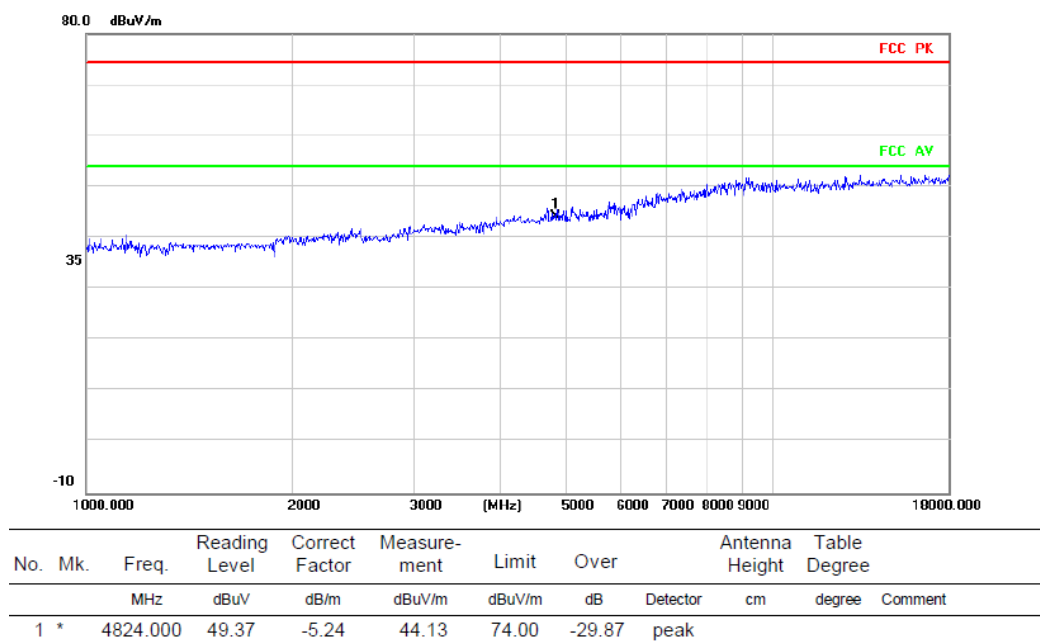
Radiated Emission



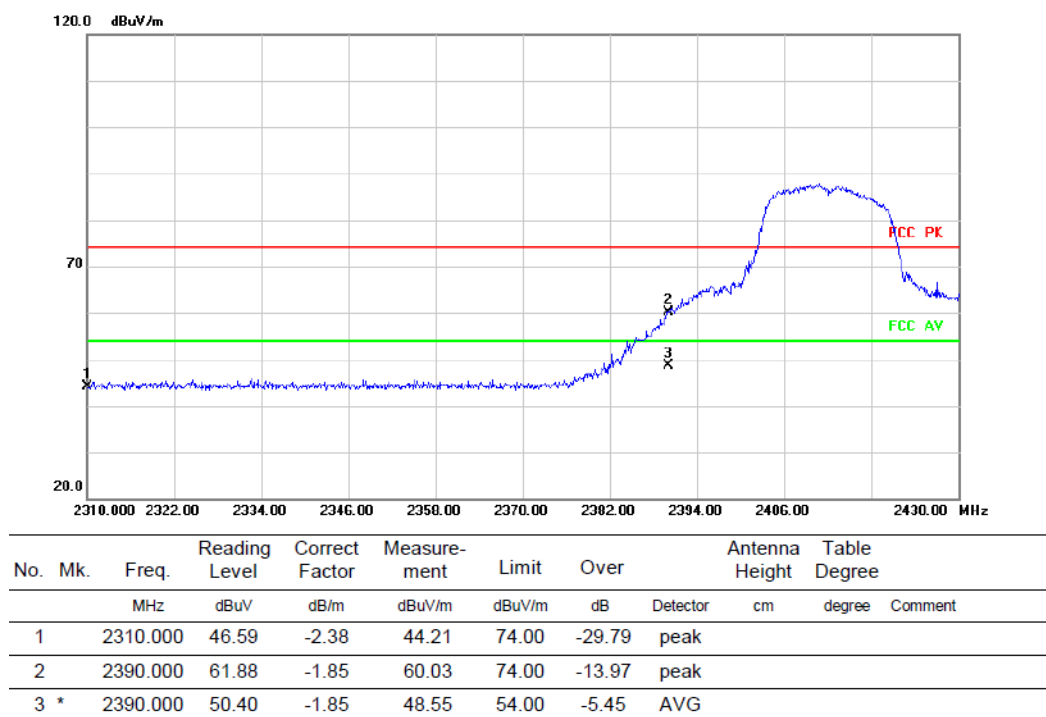
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2483.500	63.47	-0.95	62.52	74.00	-11.48	peak	
2	*	2483.500	49.71	-0.95	48.76	54.00	-5.24	AVG	
3		2500.000	46.67	-0.79	45.88	74.00	-28.12	peak	

VERTICAL

Radiated Emission

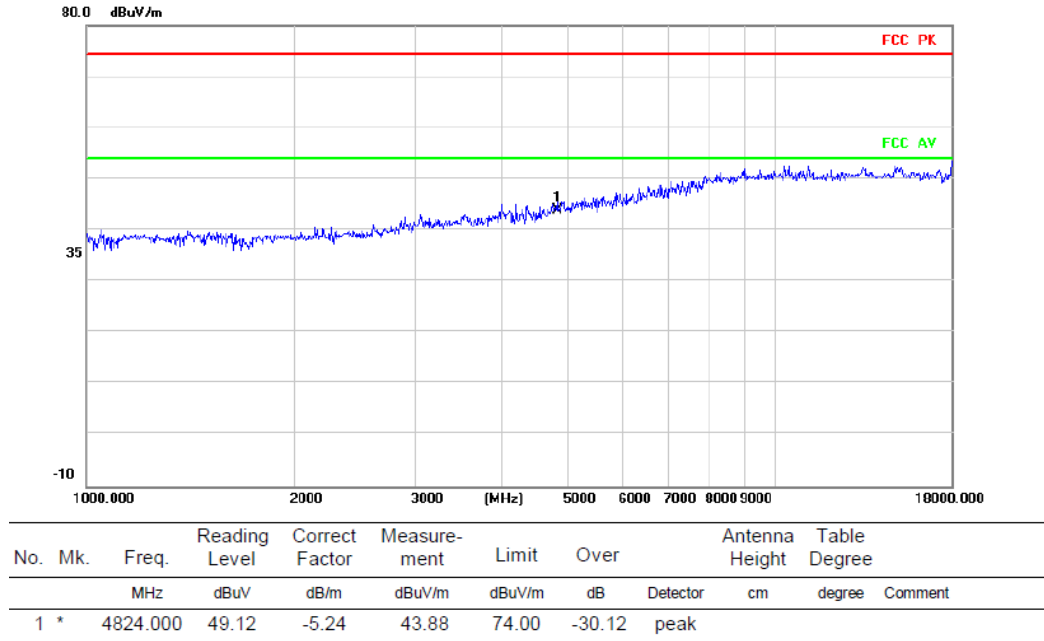


Radiated Emission

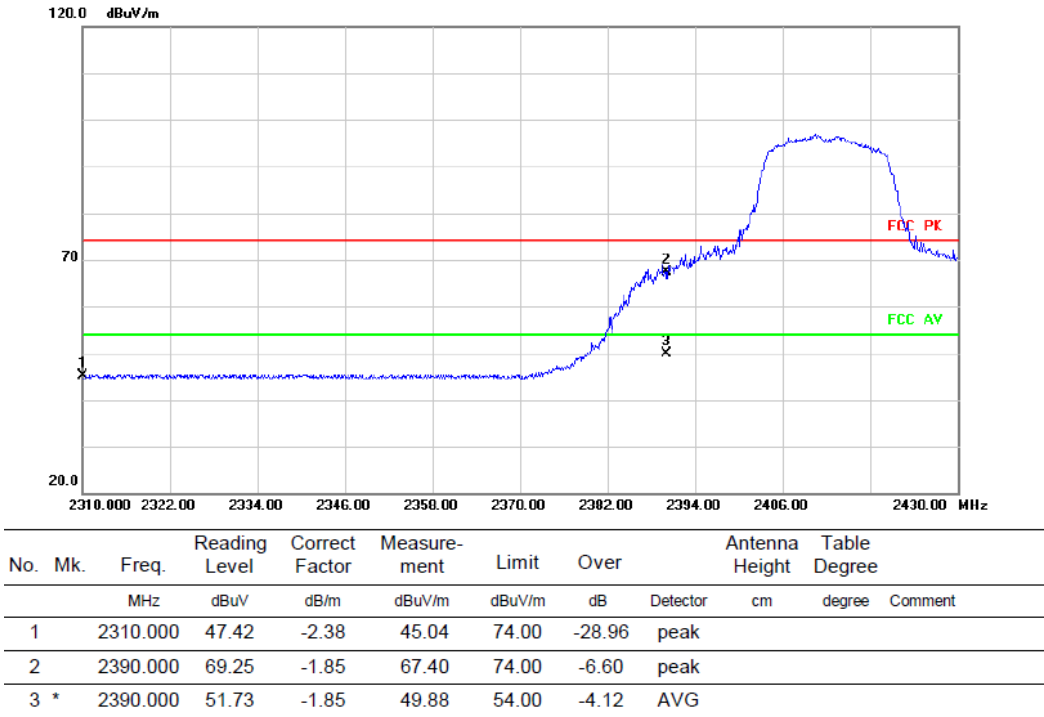


HORIZONTALA

Radiated Emission

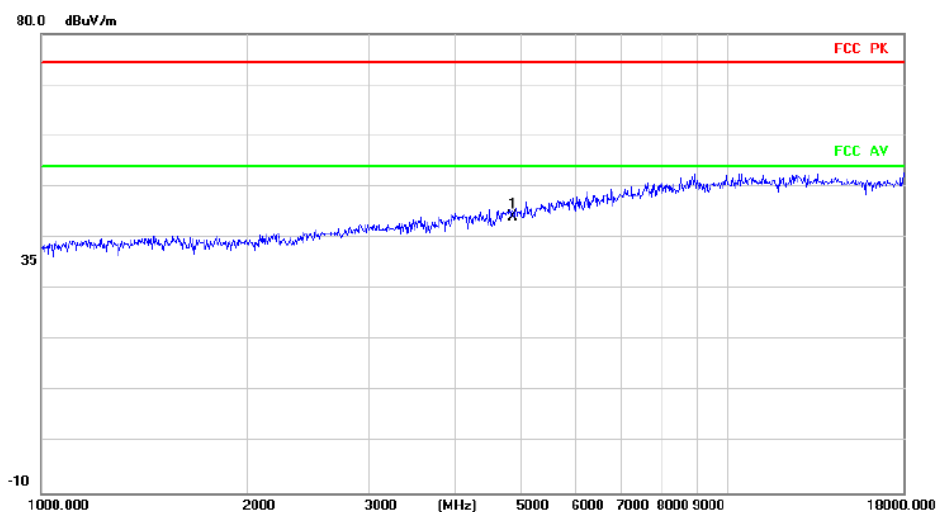


Radiated Emission



VERTICAL

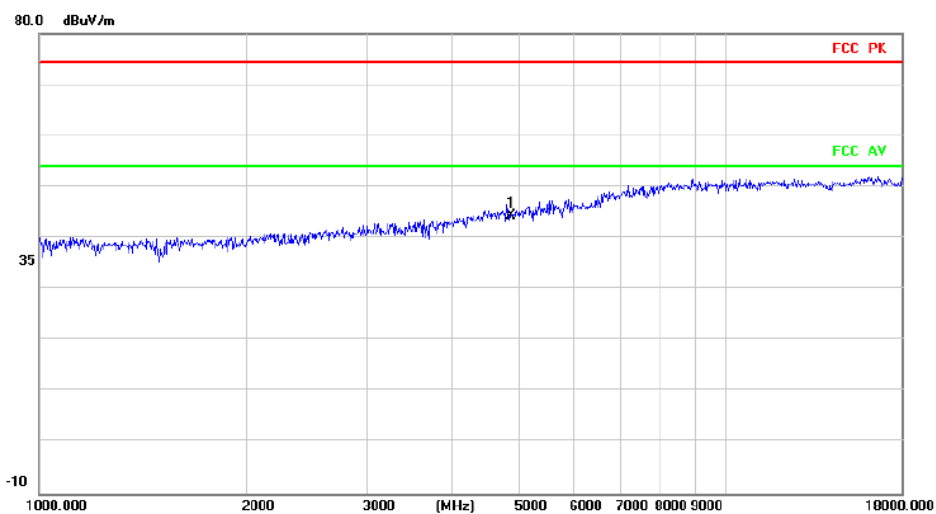
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	4874.000	49.35	-5.16	44.19	74.00	-29.81	peak		

HORIZONTAL

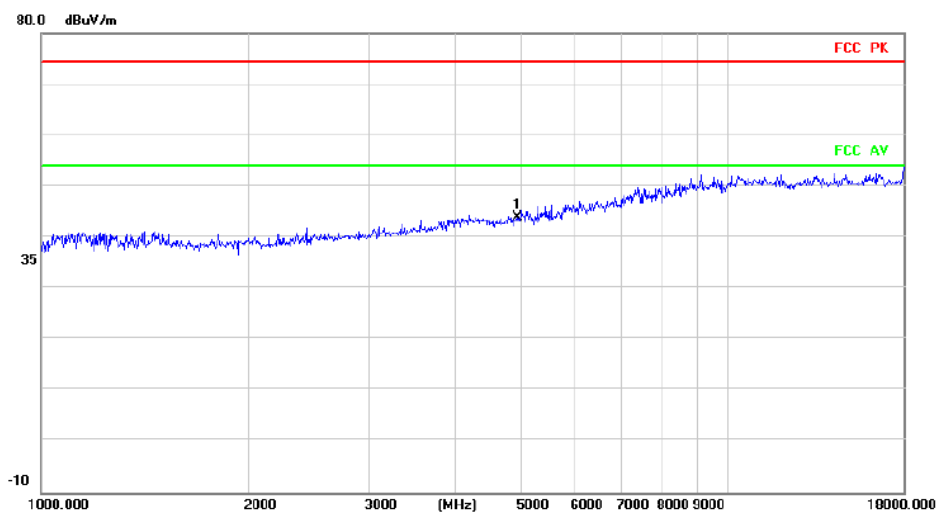
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	4874.000	49.57	-5.16	44.41	74.00	-29.59	peak		

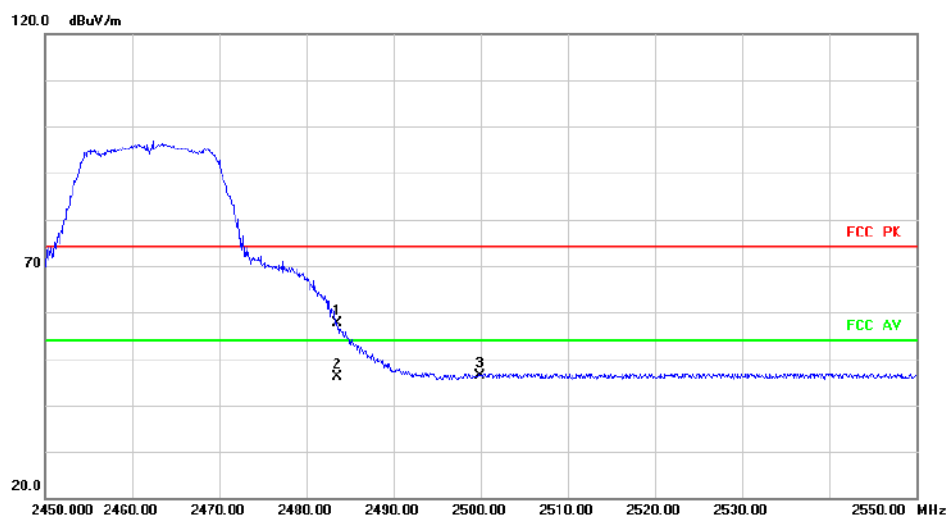
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	4924.000	48.81	-4.94	43.87	74.00	-30.13	peak	

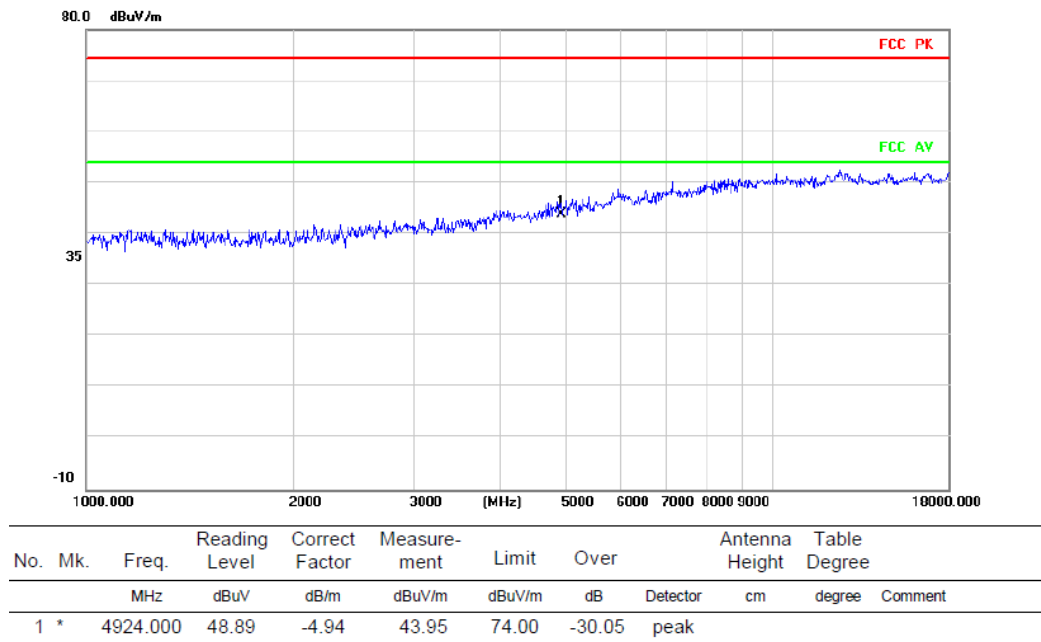
Radiated Emission



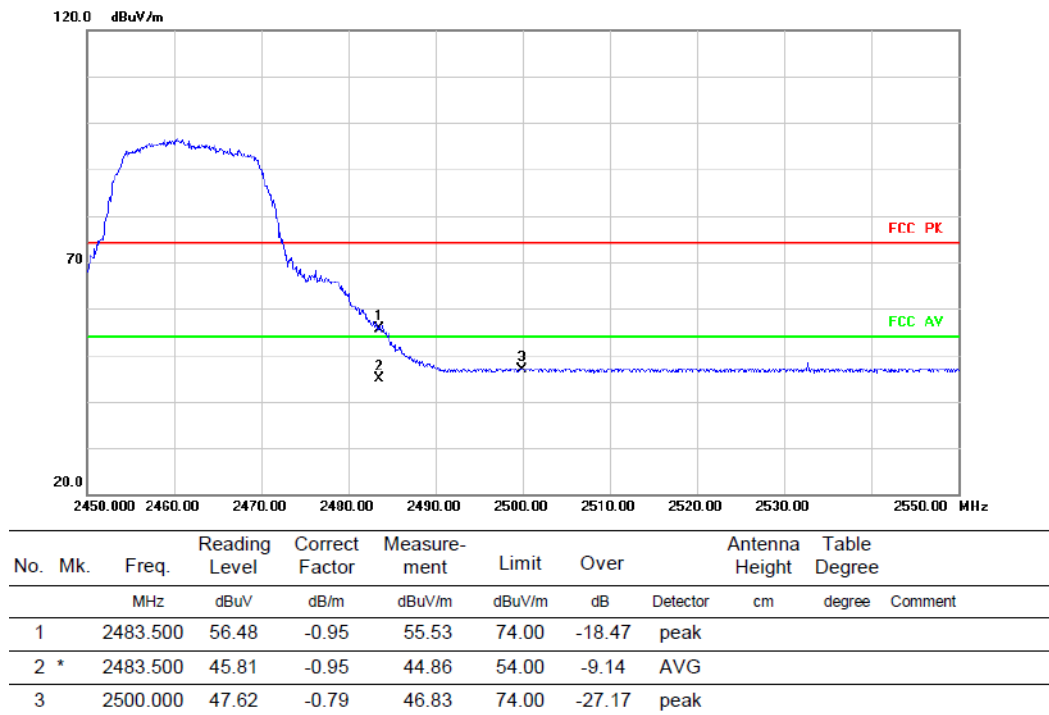
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2483.500	58.47	-0.95	57.52	74.00	-16.48	peak	
2	*	2483.500	47.07	-0.95	46.12	54.00	-7.88	AVG	
3		2500.000	47.17	-0.79	46.38	74.00	-27.62	peak	

HORIZONTALA

Radiated Emission

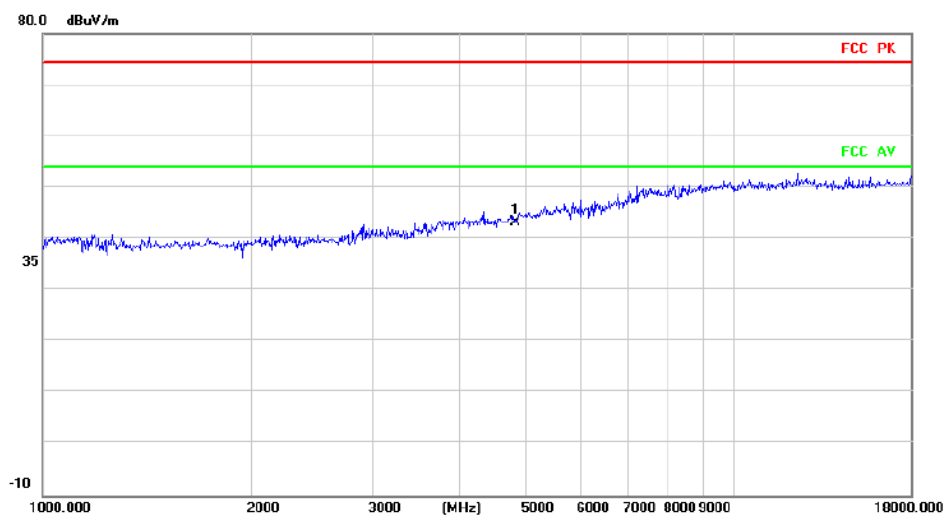


Radiated Emission



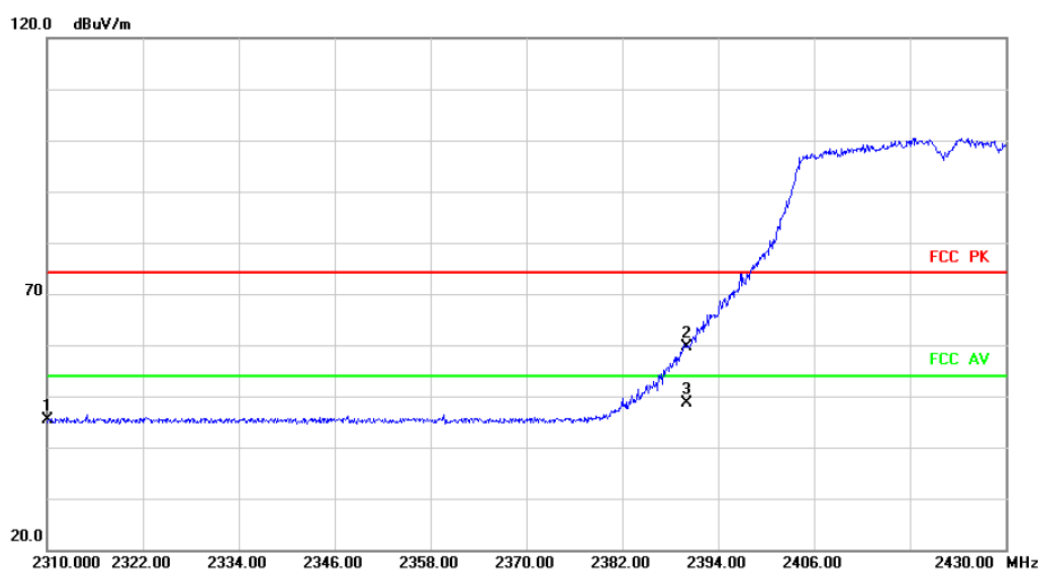
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	4844.000	48.73	-5.43	43.30	74.00	-30.70	peak	

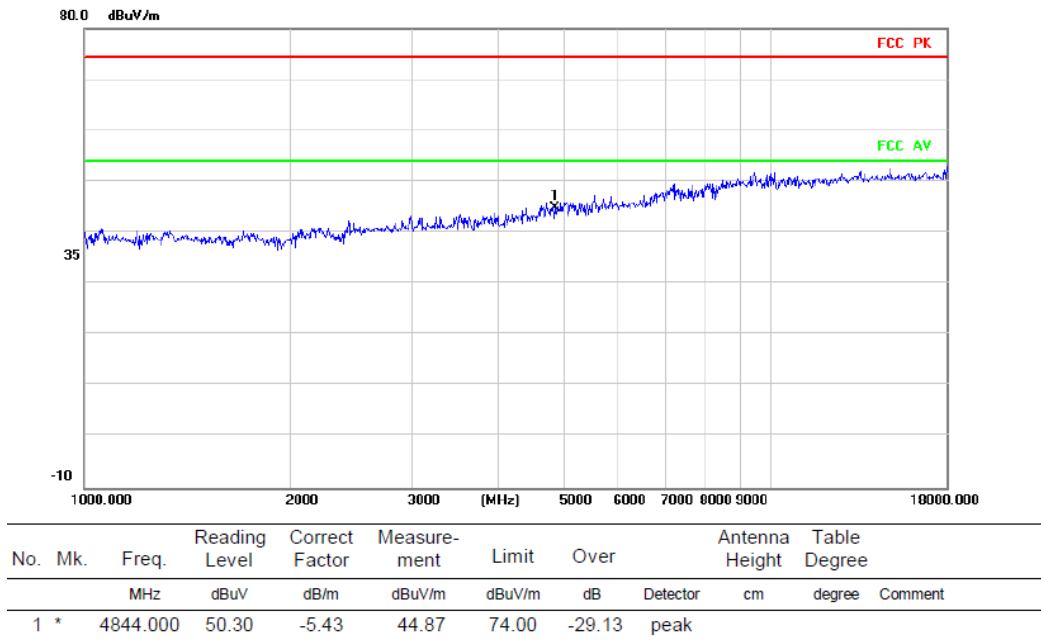
Radiated Emission



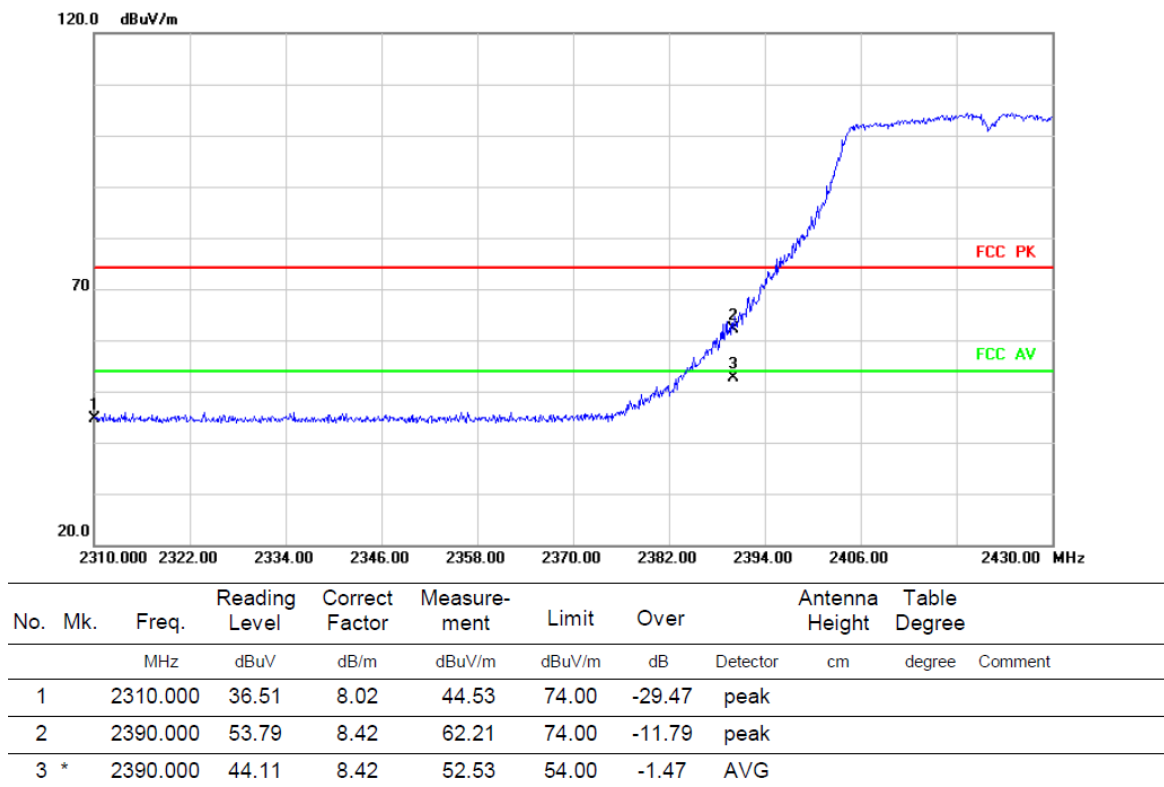
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2310.000	37.37	8.02	45.39	74.00	-28.61	peak	
2		2390.000	51.19	8.42	59.61	74.00	-14.39	peak	
3	*	2390.000	40.31	8.42	48.73	54.00	-5.27	AVG	

HORIZONTALA

Radiated Emission

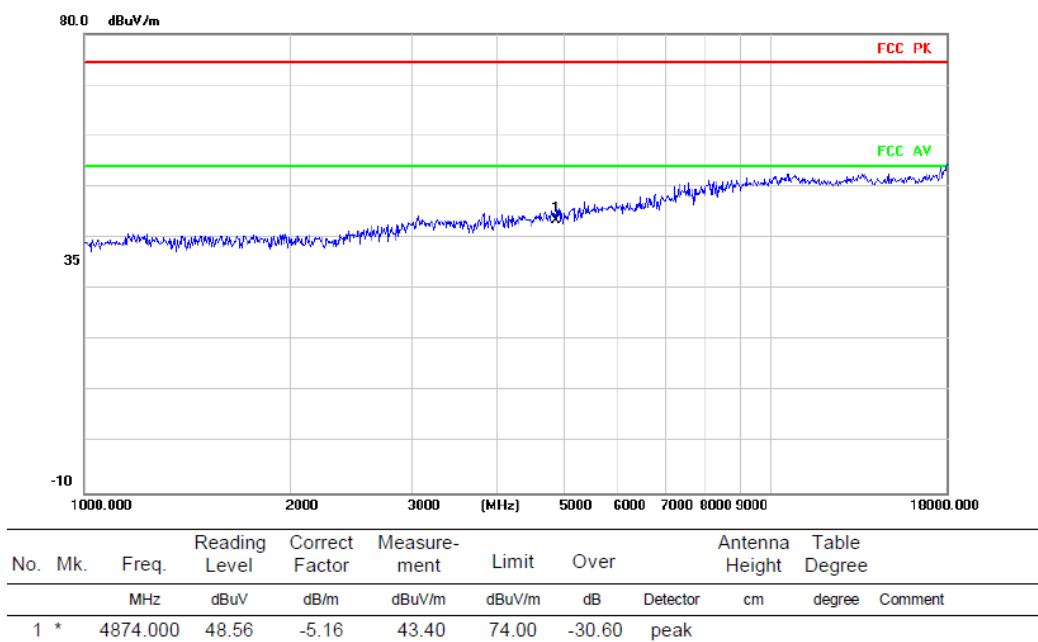


Radiated Emission



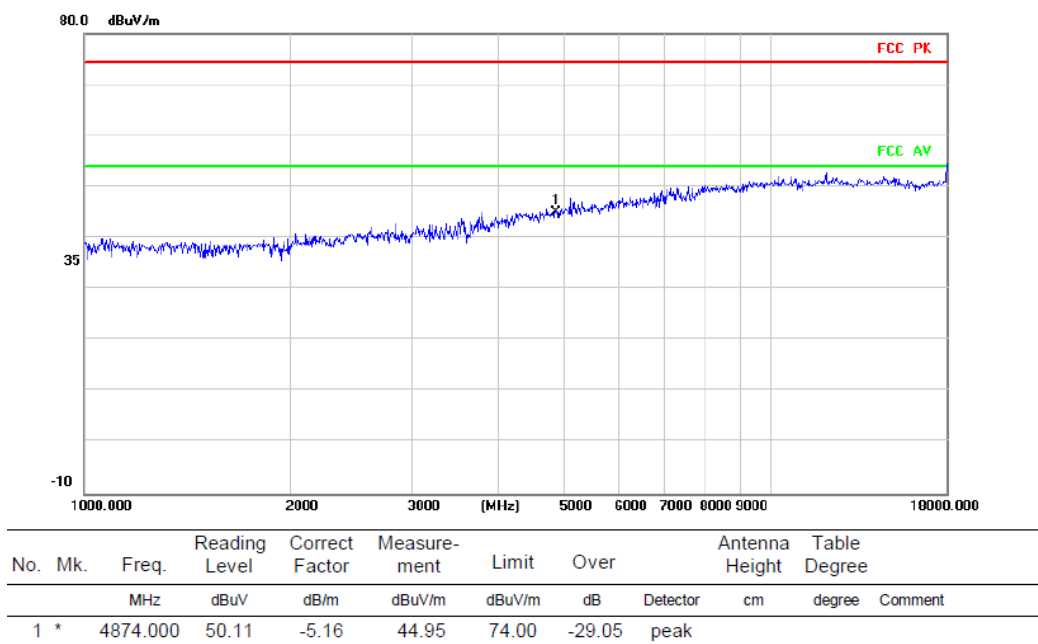
VERTICAL

Radiated Emission



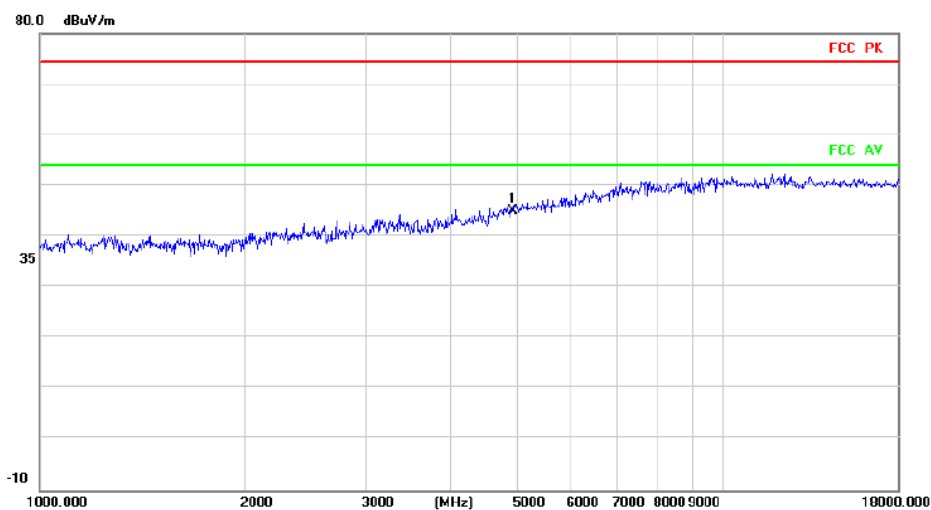
HORIZONTAL

Radiated Emission



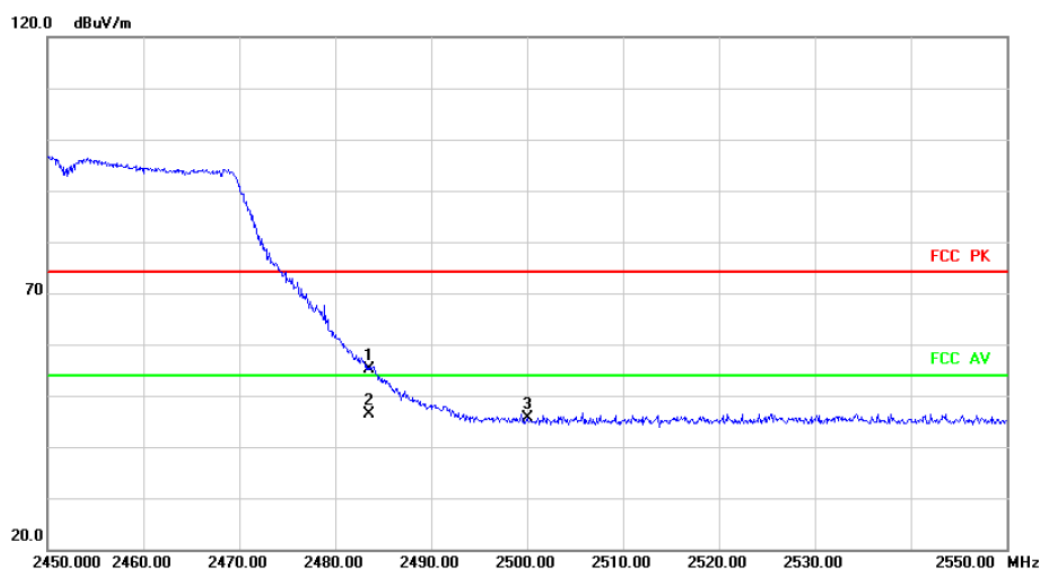
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1	*	4924.000	50.00	-4.94	45.06	74.00	-28.94	peak	

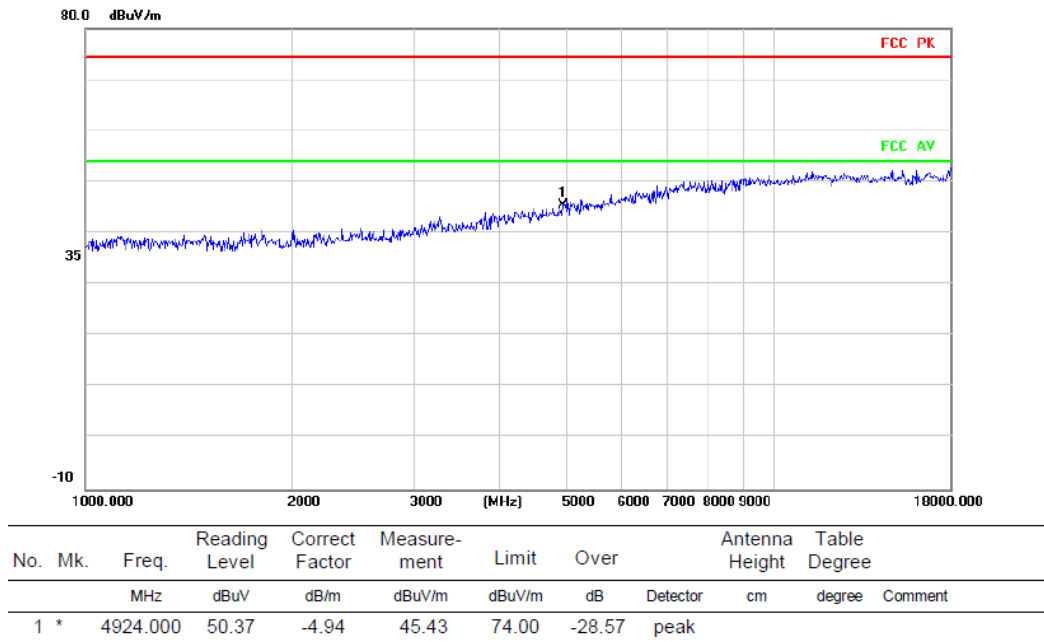
Radiated Emission



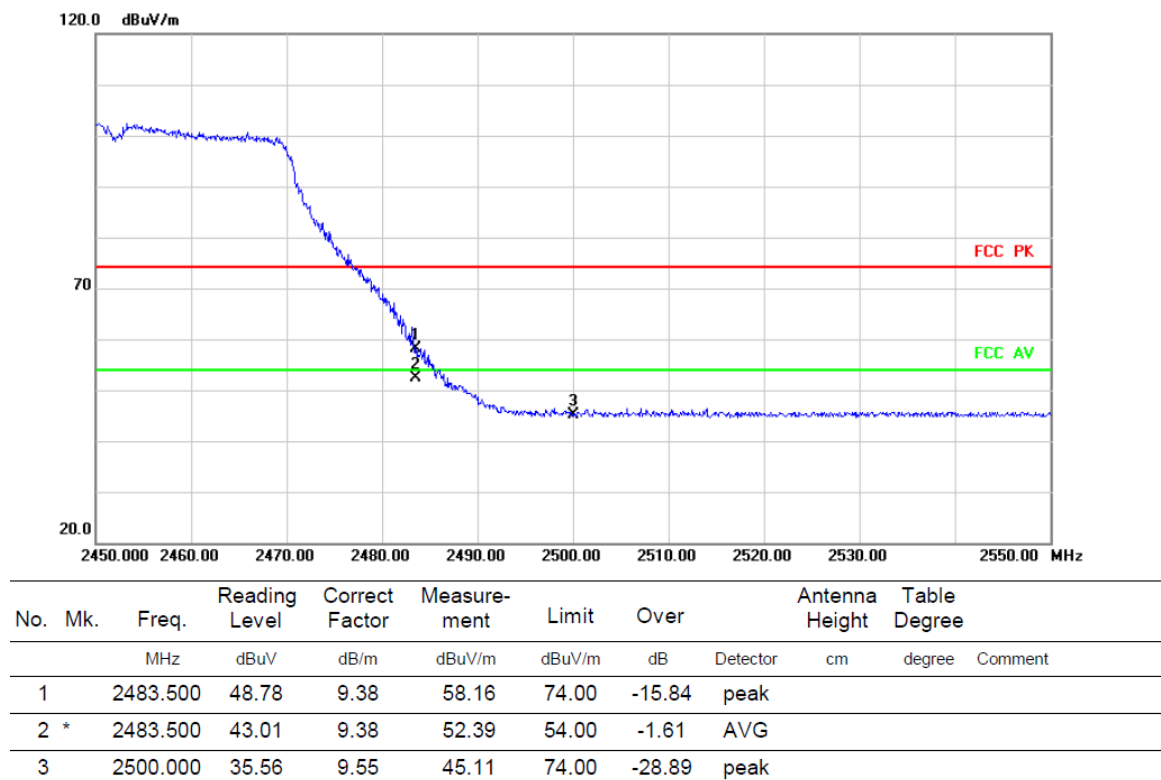
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		2483.500	45.84	9.38	55.22	74.00	-18.78	peak	
2	*	2483.500	37.05	9.38	46.43	54.00	-7.57	AVG	
3		2500.000	36.08	9.55	45.63	74.00	-28.37	peak	

HORIZONTALA

Radiated Emission



Radiated Emission



The high frequency, which started from 18GHz to 26.5GHz, was pre-scanned and the result which was 20dB lower than the limit line was not recorded in this report.

3.3 Spurious Emission at Antenna Port

3.3.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak 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. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

3.3.2 Test Procedure

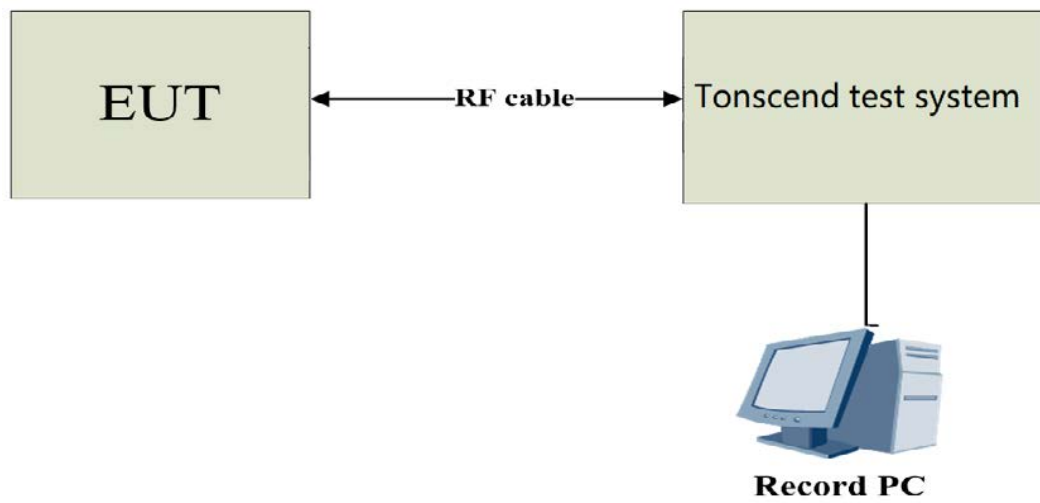
Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below.

b) Spectrum Setting as below:

Centre Frequency	The centre frequency of the channel under test
Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.3.3 Test Setup

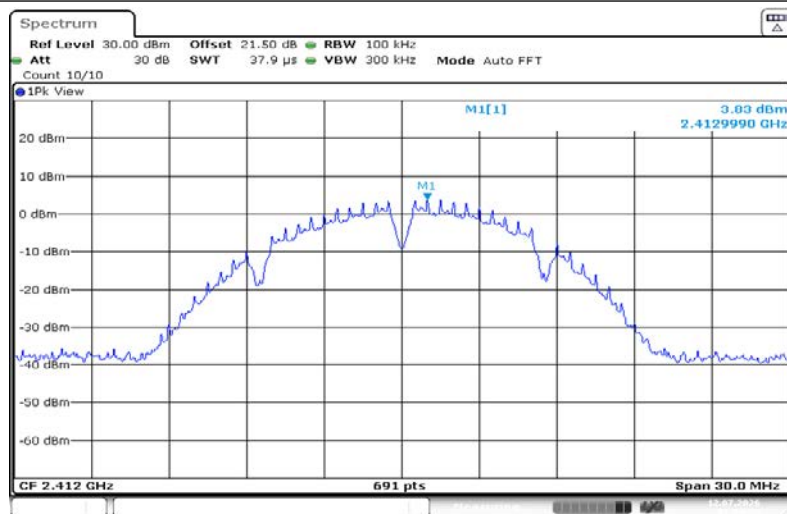


3.3.4 The Result

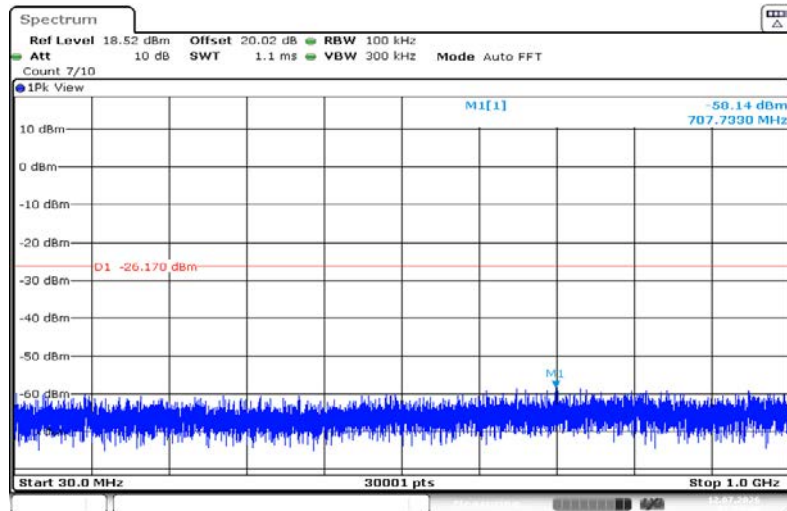
Conducted Spurious Emission

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	3.83	3.83	---	PASS
11B	Ant1	2412	30~1000	3.83	-58.14	≤-26.17	PASS
11B	Ant1	2412	1000~26500	3.83	-39.29	≤-26.17	PASS
11B	Ant1	2437	0~Reference	4.78	4.78	---	PASS
11B	Ant1	2437	30~1000	4.78	-57.24	≤-25.22	PASS
11B	Ant1	2437	1000~26500	4.78	-40.85	≤-25.22	PASS
11B	Ant1	2462	0~Reference	4.70	4.70	---	PASS
11B	Ant1	2462	30~1000	4.70	-57.96	≤-25.3	PASS
11B	Ant1	2462	1000~26500	4.70	-40.44	≤-25.3	PASS
11G	Ant1	2412	0~Reference	2.49	2.49	---	PASS
11G	Ant1	2412	30~1000	2.49	-57.84	≤-27.51	PASS
11G	Ant1	2412	1000~26500	2.49	-40.94	≤-27.51	PASS
11G	Ant1	2437	0~Reference	3.08	3.08	---	PASS
11G	Ant1	2437	30~1000	3.08	-57.6	≤-26.92	PASS
11G	Ant1	2437	1000~26500	3.08	-41.1	≤-26.92	PASS
11G	Ant1	2462	0~Reference	2.41	2.41	---	PASS
11G	Ant1	2462	30~1000	2.41	-57.37	≤-27.59	PASS
11G	Ant1	2462	1000~26500	2.41	-41.59	≤-27.59	PASS
11N20SISO	Ant1	2412	0~Reference	2.04	2.04	---	PASS
11N20SISO	Ant1	2412	30~1000	2.04	-58.6	≤-27.96	PASS
11N20SISO	Ant1	2412	1000~26500	2.04	-41	≤-27.96	PASS
11N20SISO	Ant1	2437	0~Reference	2.88	2.88	---	PASS
11N20SISO	Ant1	2437	30~1000	2.88	-58.04	≤-27.12	PASS
11N20SISO	Ant1	2437	1000~26500	2.88	-40.83	≤-27.12	PASS
11N20SISO	Ant1	2462	0~Reference	2.50	2.50	---	PASS
11N20SISO	Ant1	2462	30~1000	2.50	-58.56	≤-27.5	PASS
11N20SISO	Ant1	2462	1000~26500	2.50	-41.04	≤-27.5	PASS
11N40SISO	Ant1	2422	0~Reference	1.56	1.56	---	PASS
11N40SISO	Ant1	2422	30~1000	1.56	-45.76	≤-28.44	PASS
11N40SISO	Ant1	2422	1000~26500	1.56	-41.57	≤-28.44	PASS
11N40SISO	Ant1	2437	0~Reference	-0.01	-0.01	---	PASS
11N40SISO	Ant1	2437	30~1000	-0.01	-56.7	≤-30.01	PASS
11N40SISO	Ant1	2437	1000~26500	-0.01	-41.04	≤-30.01	PASS
11N40SISO	Ant1	2452	0~Reference	0.55	0.55	---	PASS
11N40SISO	Ant1	2452	30~1000	0.55	-57.92	≤-29.45	PASS
11N40SISO	Ant1	2452	1000~26500	0.55	-41.83	≤-29.45	PASS

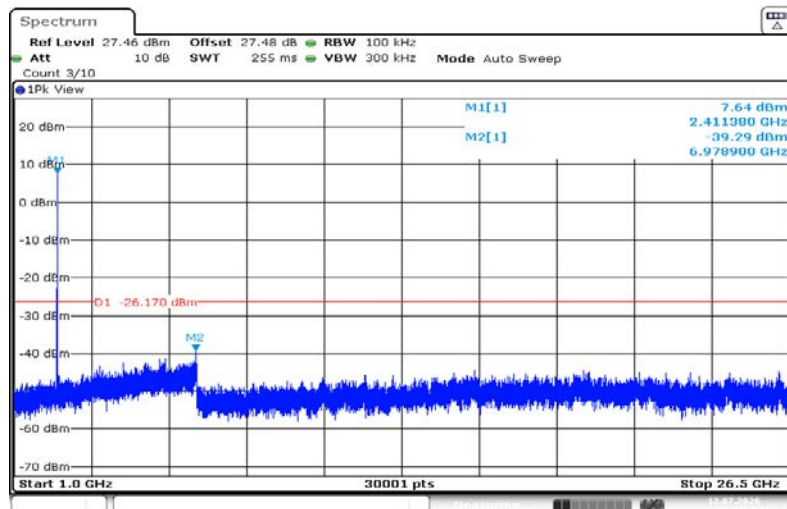
Test Graphs



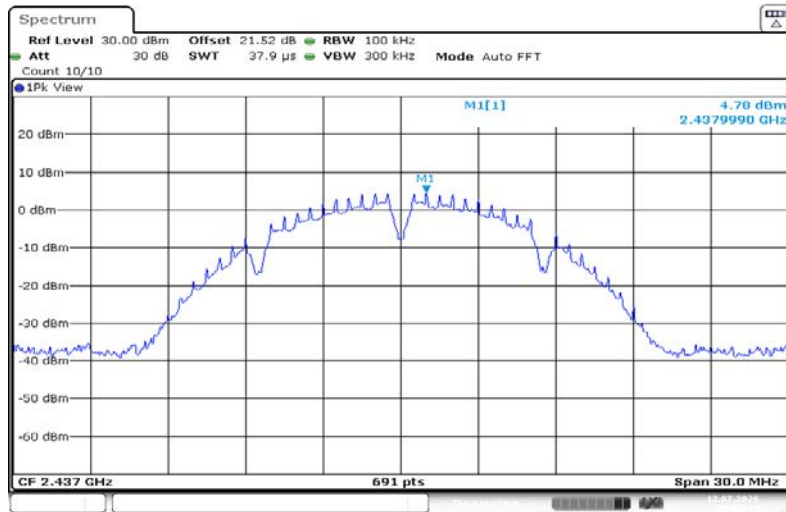
11B-Ant1-2412-0~Reference-PASS



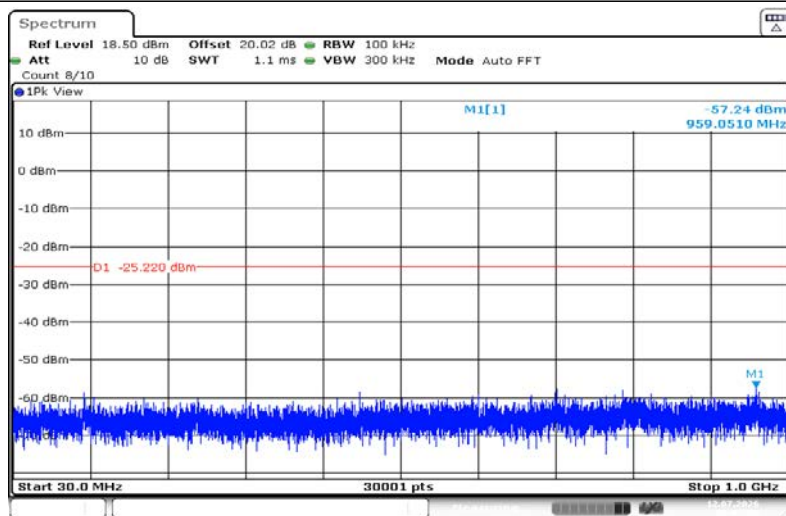
11B-Ant1-2412-30~1000-PASS



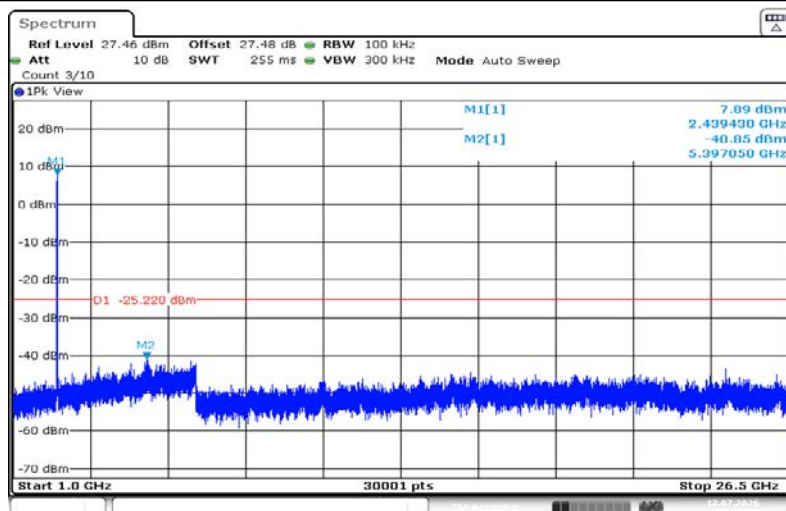
11B-Ant1-2412-1000~26500-PASS



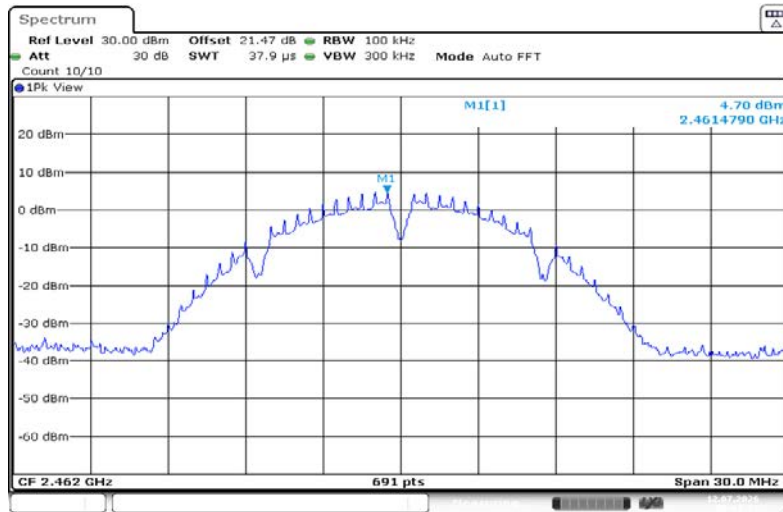
11B-Ant1-2437-0-Reference-PASS



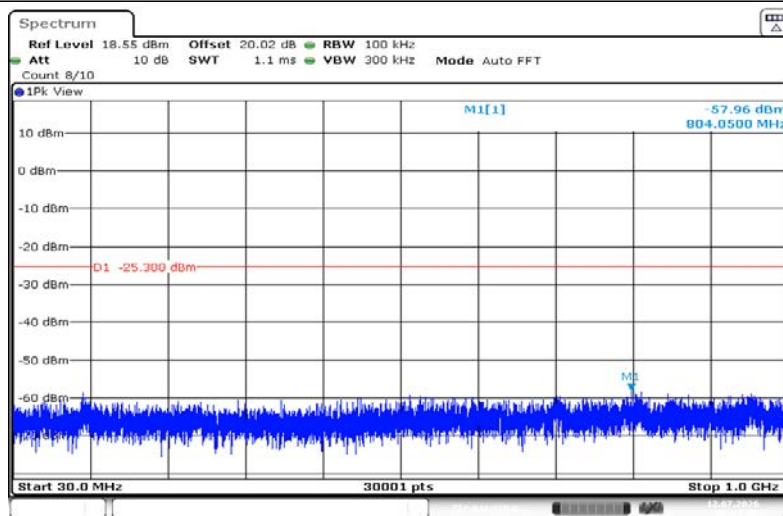
11B-Ant1-2437-30~1000-PASS



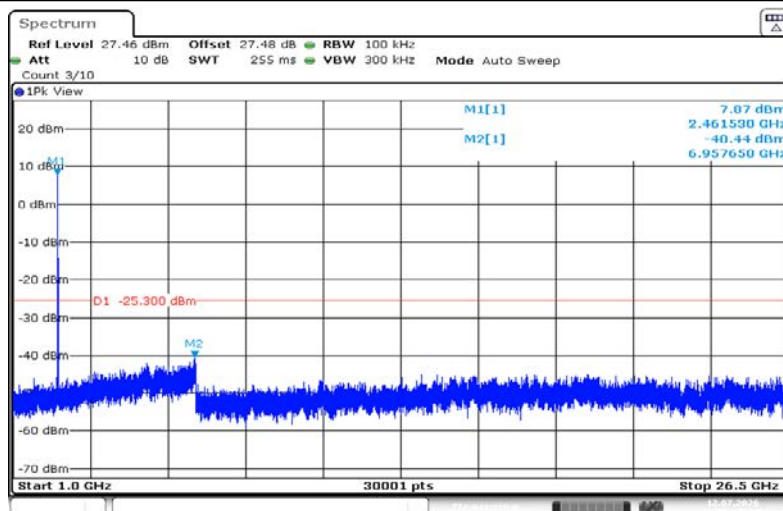
11B-Ant1-2437-1000~26500-PASS



11B-Ant1-2462-0-Reference-PASS



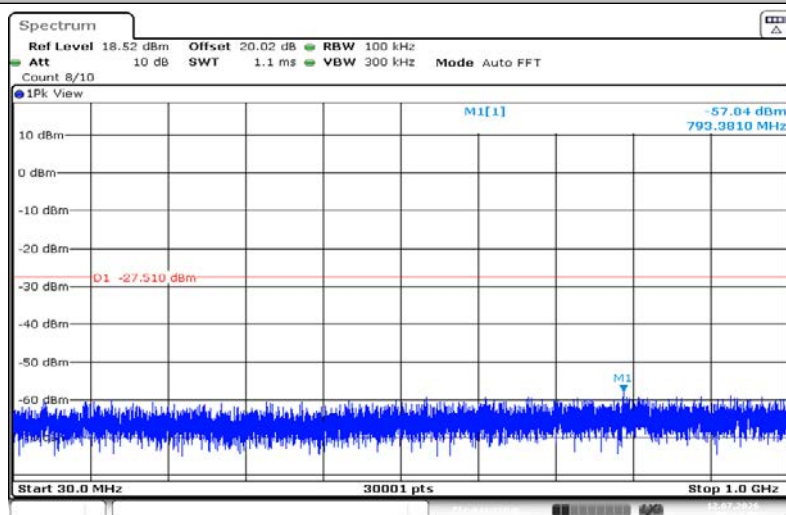
11B-Ant1-2462-30~1000-PASS



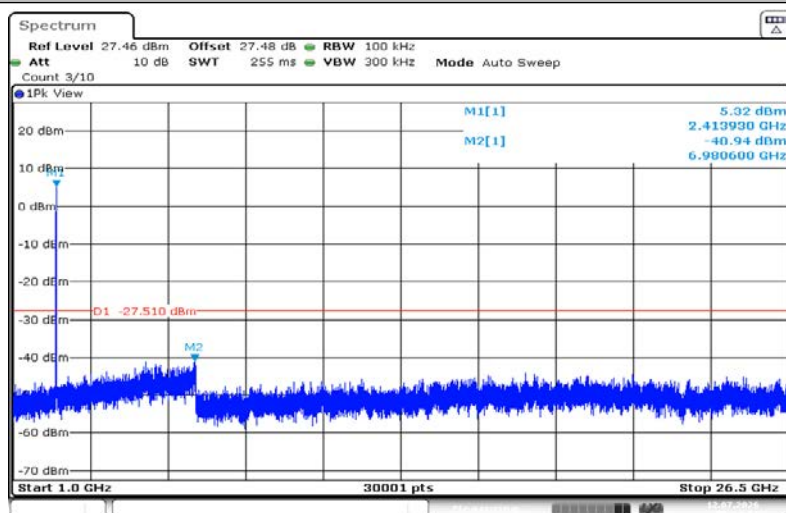
11B-Ant1-2462-1000~26500-PASS



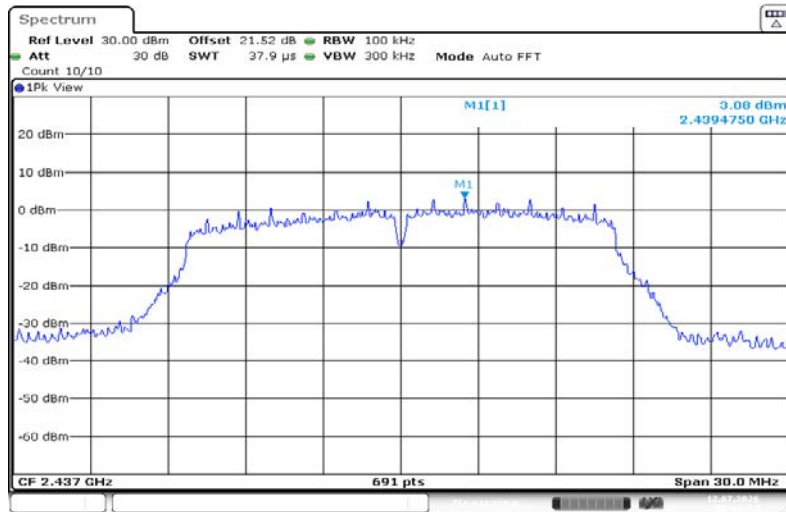
11G-Ant1-2412-0-Reference-PASS



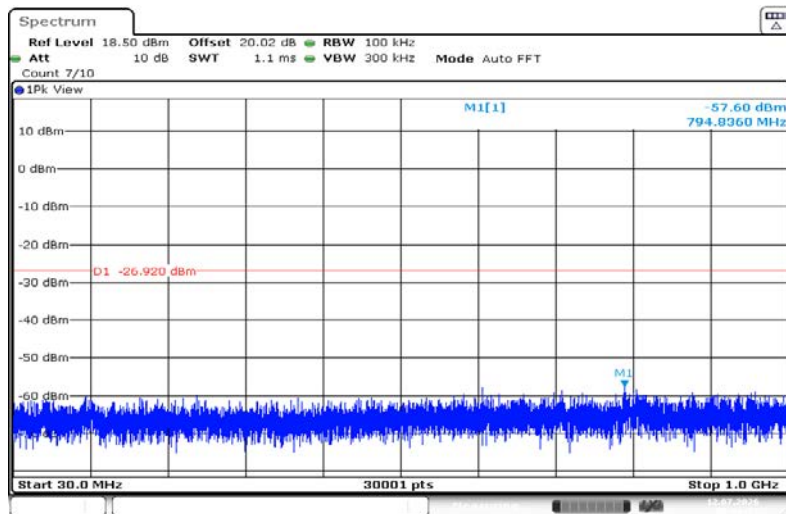
11G-Ant1-2412-30~1000-PASS



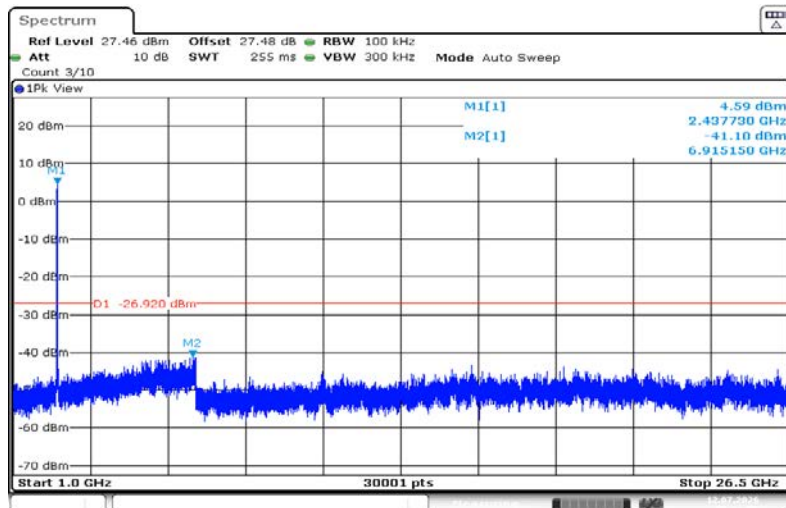
11G-Ant1-2412-1000~26500-PASS



11G-Ant1-2437-0-Reference-PASS



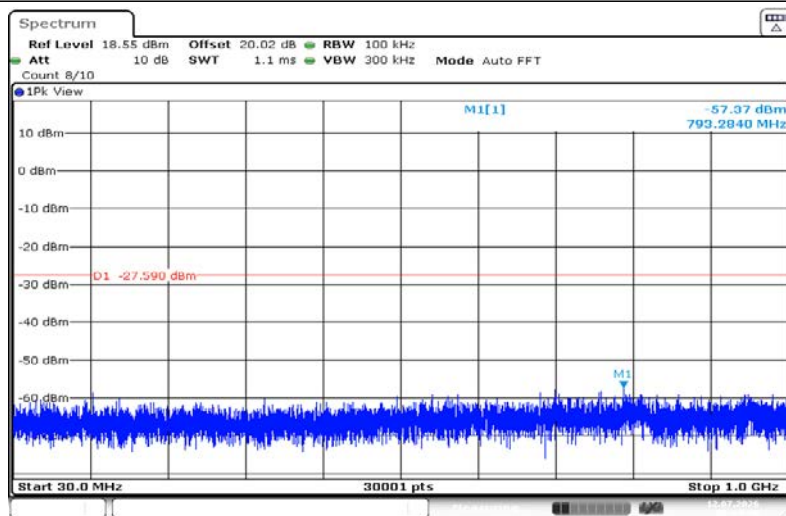
11G-Ant1-2437-30~1000-PASS



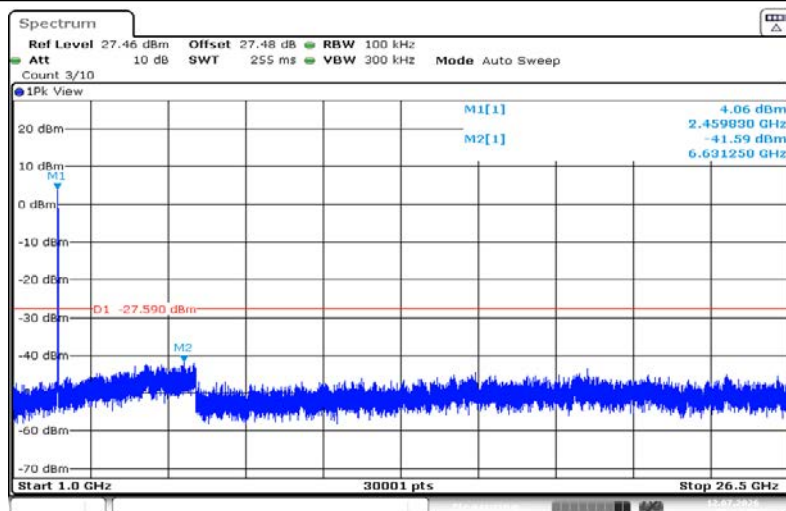
11G-Ant1-2437-1000~26500-PASS



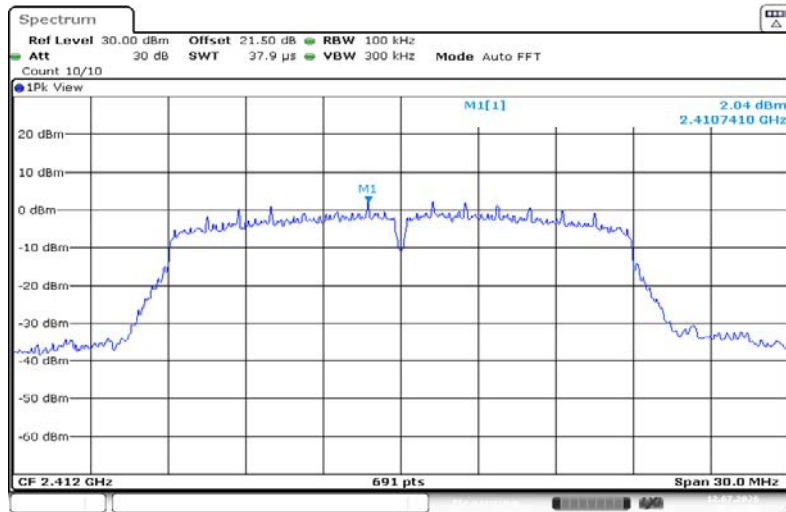
11G-Ant1-2462-0~Reference-PASS



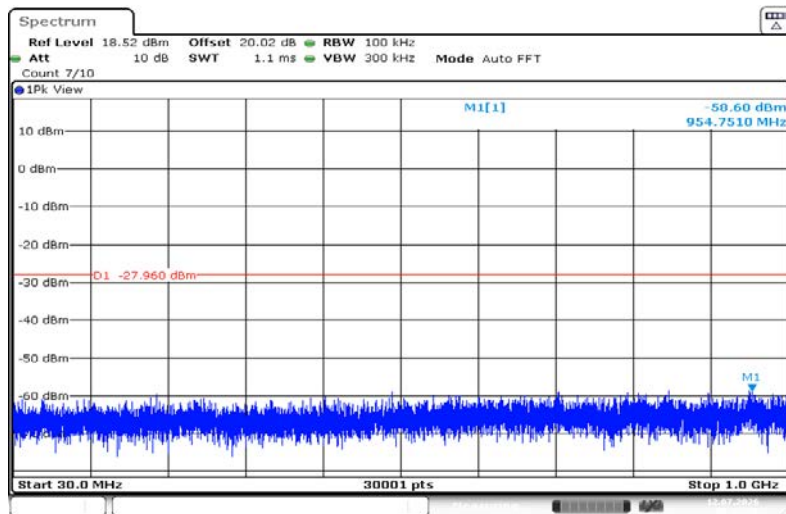
11G-Ant1-2462-30~1000-PASS



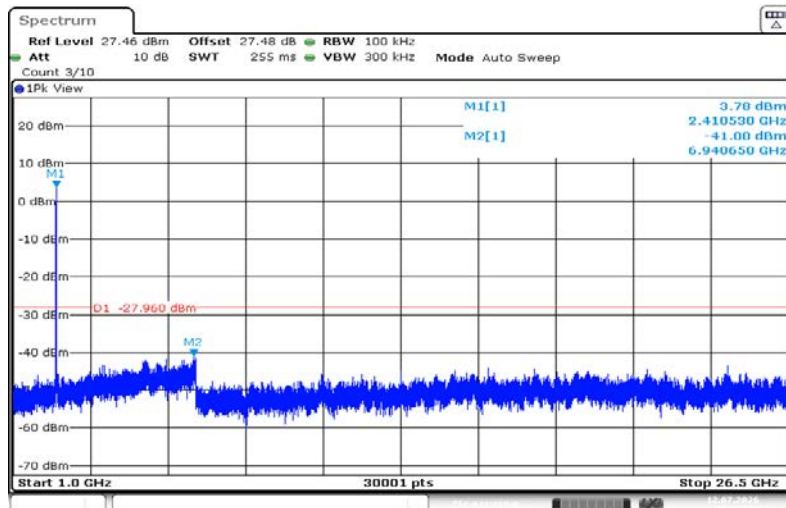
11G-Ant1-2462-1000~26500-PASS



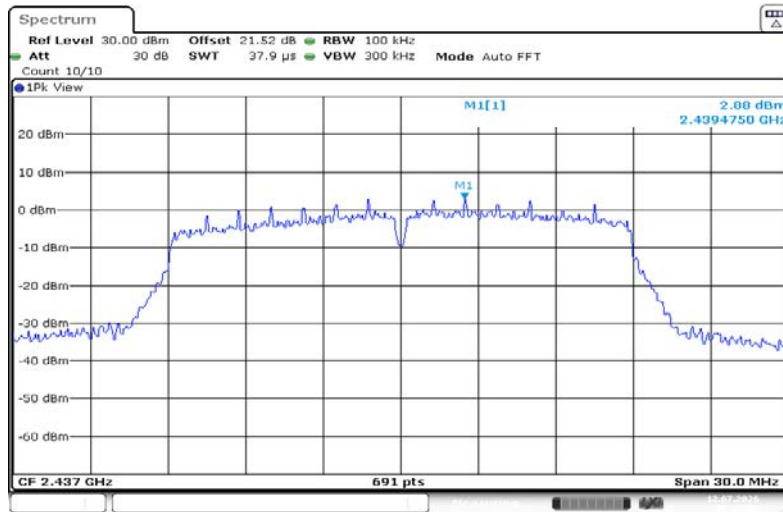
11N20SISO-Ant1-2412-0~Reference-PASS



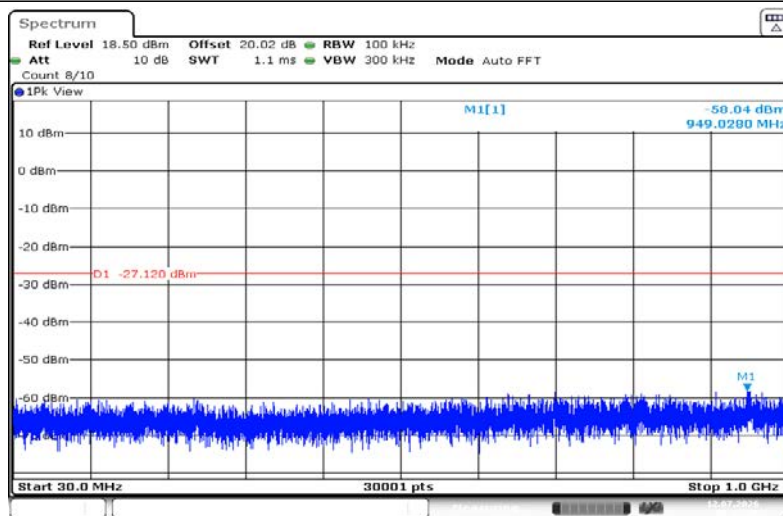
11N20SISO-Ant1-2412-30~1000-PASS



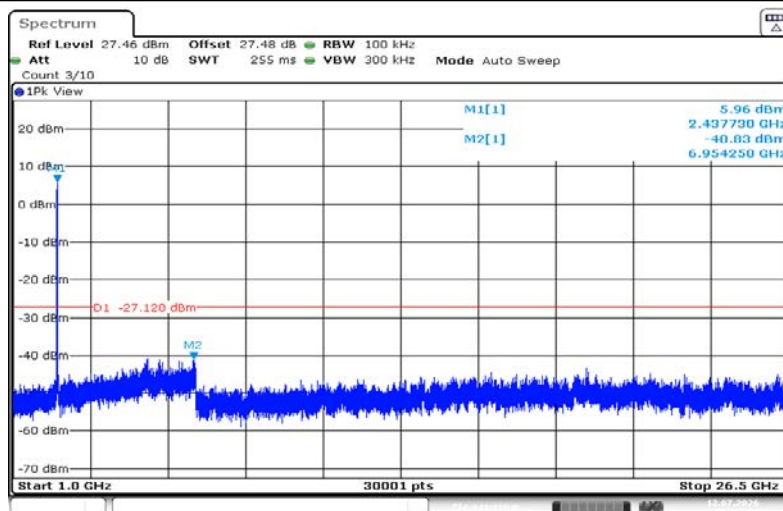
11N20SISO-Ant1-2412-1000~26500-PASS



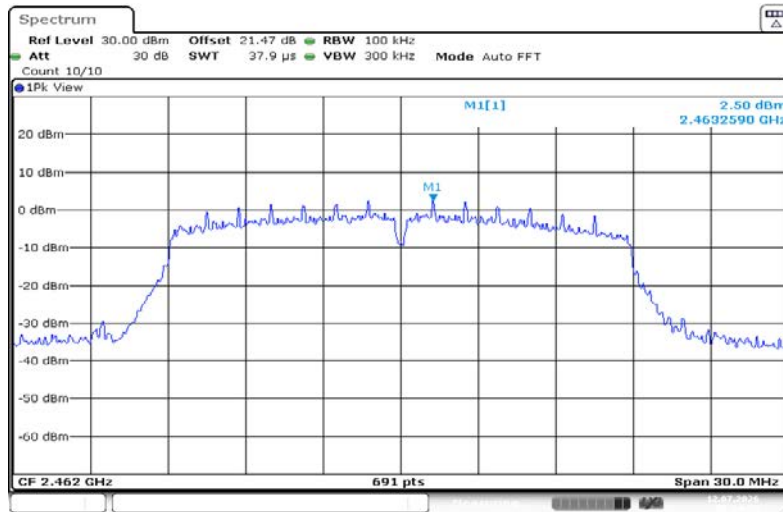
11N20SISO-Ant1-2437-0~Reference-PASS



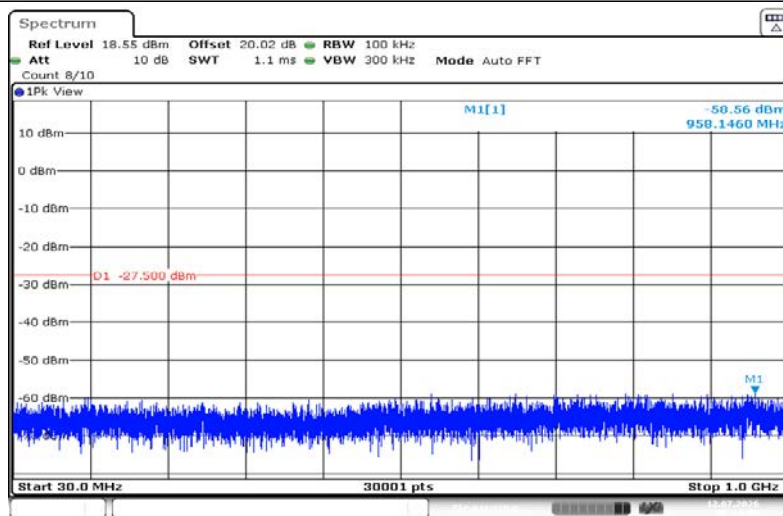
11N20SISO-Ant1-2437-30~1000-PASS



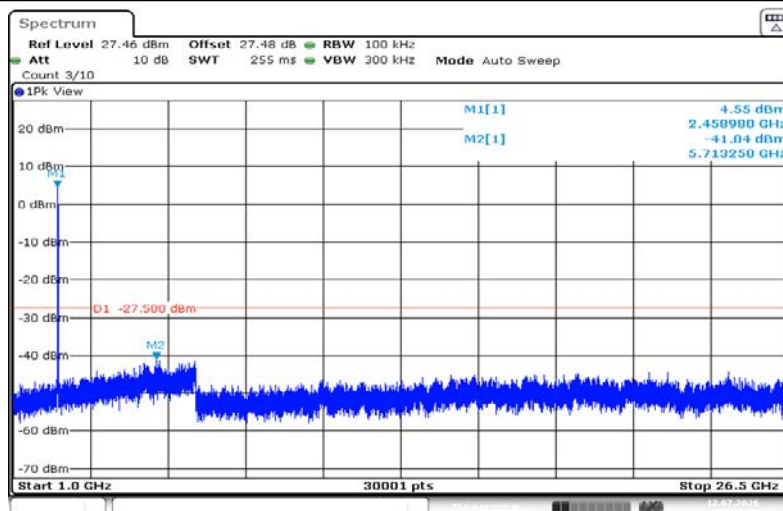
11N20SISO-Ant1-2437-1000~2650-PASS



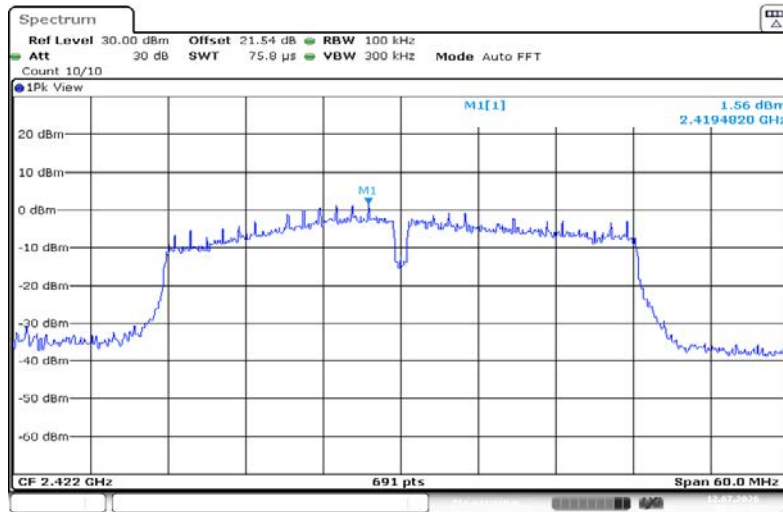
11N20SISO-Ant1-2462-0~Reference-PASS



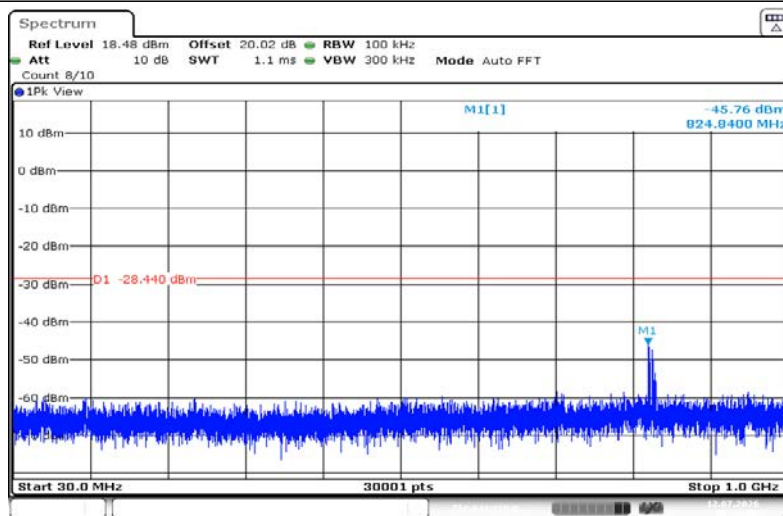
11N20SISO-Ant1-2462-30~1000-PASS



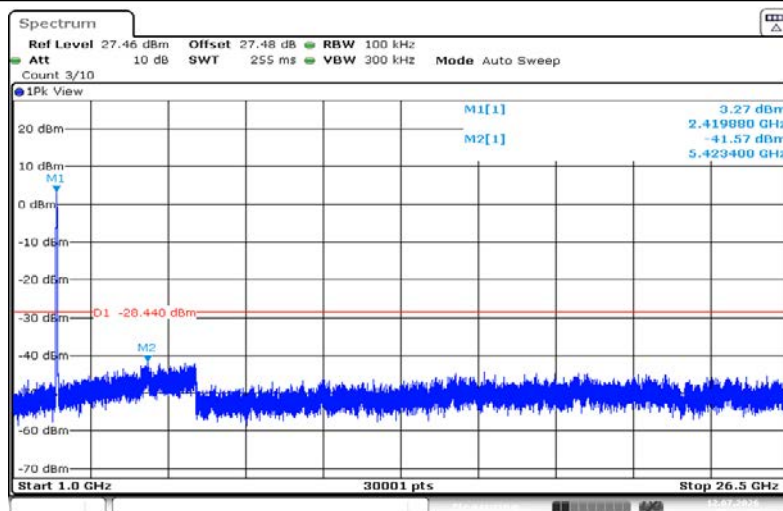
11N20SISO-Ant1-2462-1000~26500-PASS



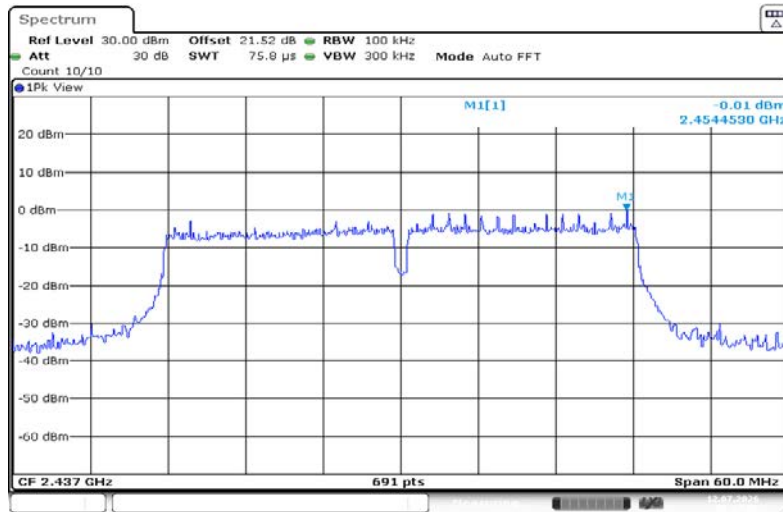
11N40SISO-Ant1-2422-0~Reference-PASS



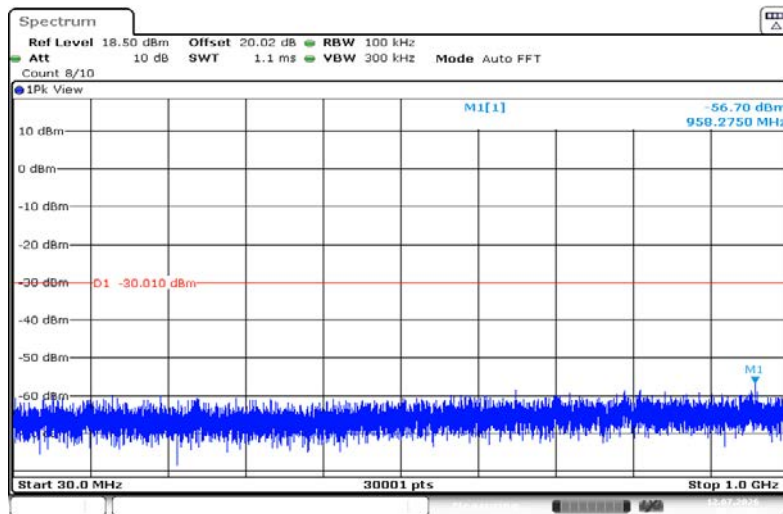
11N40SISO-Ant1-2422-30~1000-PASS



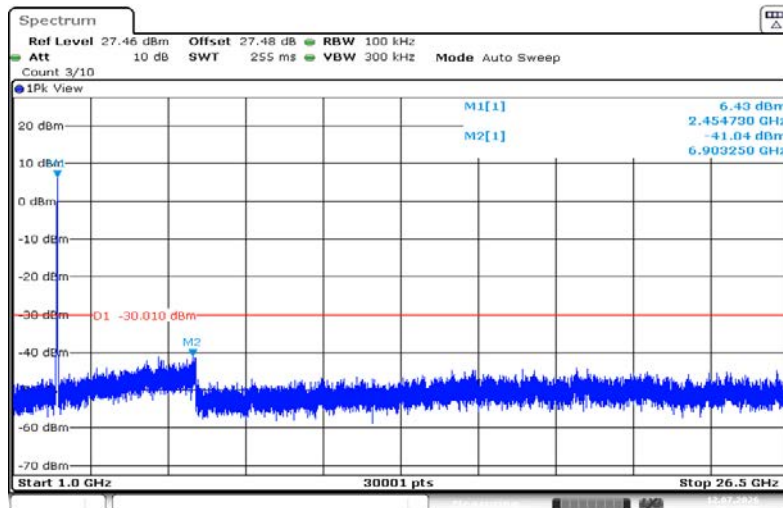
11N40SISO-Ant1-2422-1000~26500-PASS



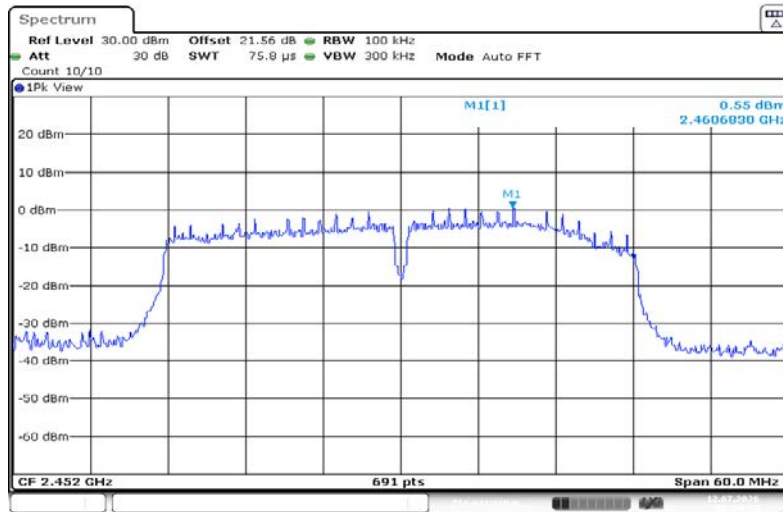
11N40SISO-Ant1-2437-0~Reference-PASS



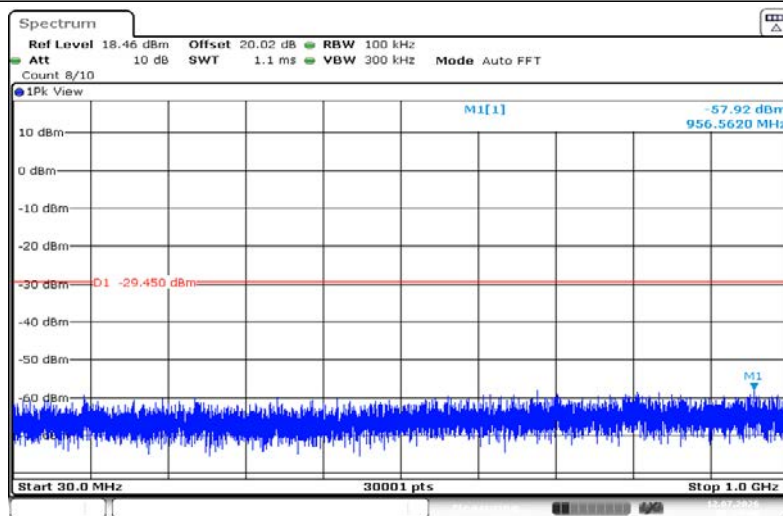
11N40SISO-Ant1-2437-30~1000-PASS



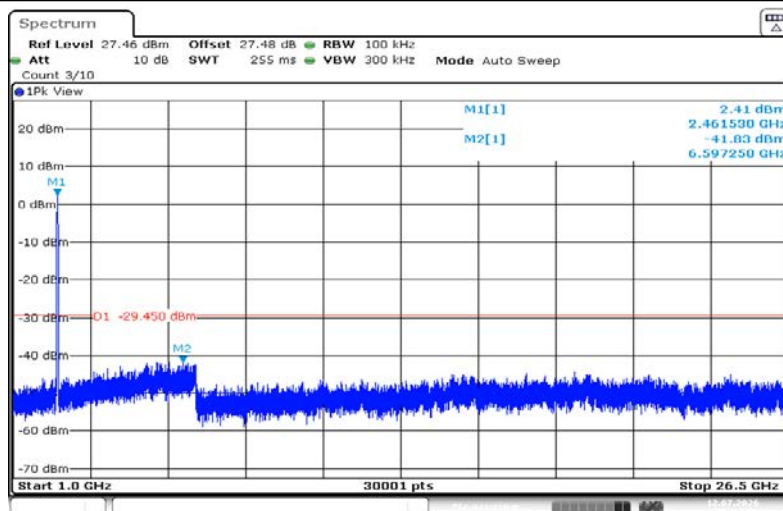
11N40SISO-Ant1-2437-1000~26500-PASS



11N40SISO-Ant1-2452-0~Reference-PASS



11N40SISO-Ant1-2452-30~1000-PASS

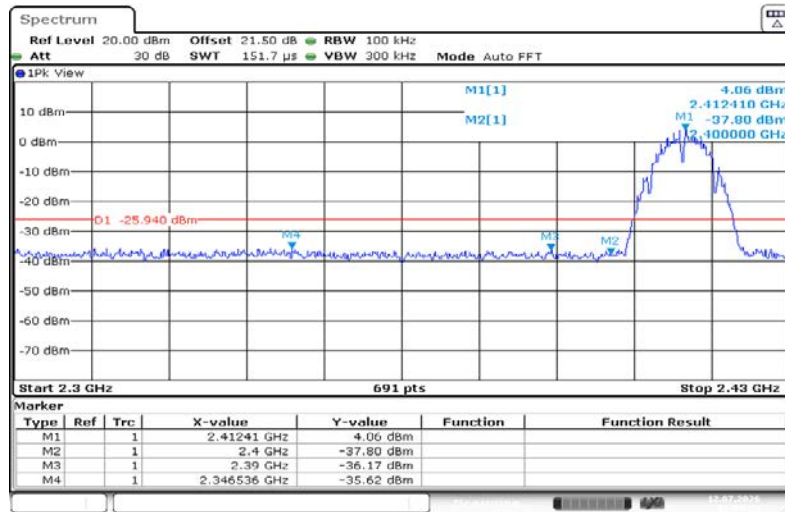


11N40SISO-Ant1-2452-1000~26500-PASS

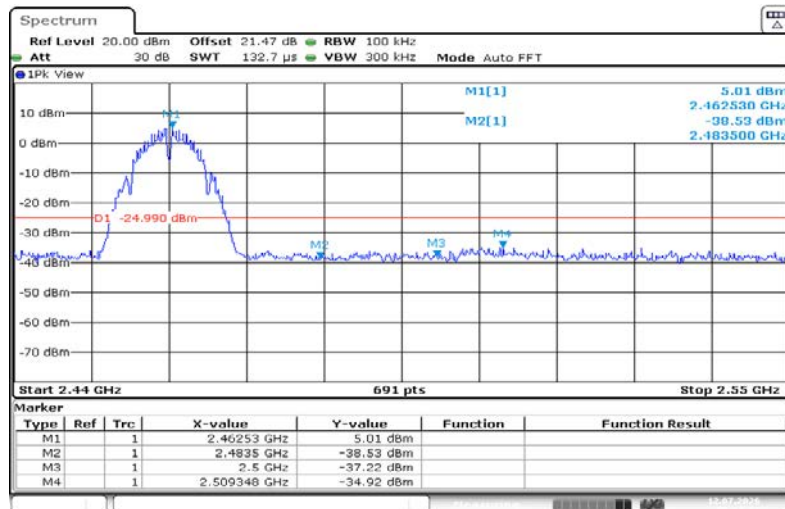
Band edge

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.06	-35.62	≤-25.94	PASS
11B	Ant1	High	2462	5.01	-34.92	≤-24.99	PASS
11G	Ant1	Low	2412	2.25	-35.48	≤-27.75	PASS
11G	Ant1	High	2462	0.48	-33.9	≤-29.52	PASS
11N20SISO	Ant1	Low	2412	1.79	-34.99	≤-28.21	PASS
11N20SISO	Ant1	High	2462	0.71	-34.75	≤-29.29	PASS
11N40SISO	Ant1	Low	2422	0.59	-32.49	≤-29.41	PASS
11N40SISO	Ant1	High	2452	0.08	-35.12	≤-29.92	PASS

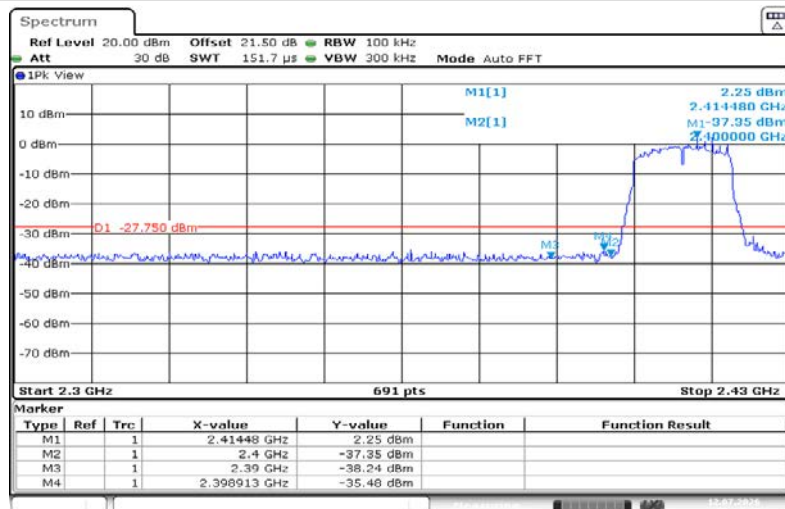
Test Graphs



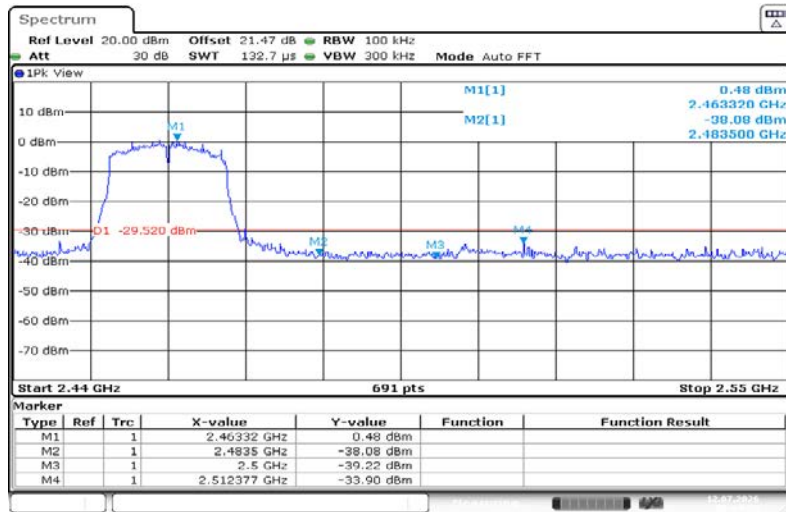
11B-Ant1-2412-PASS



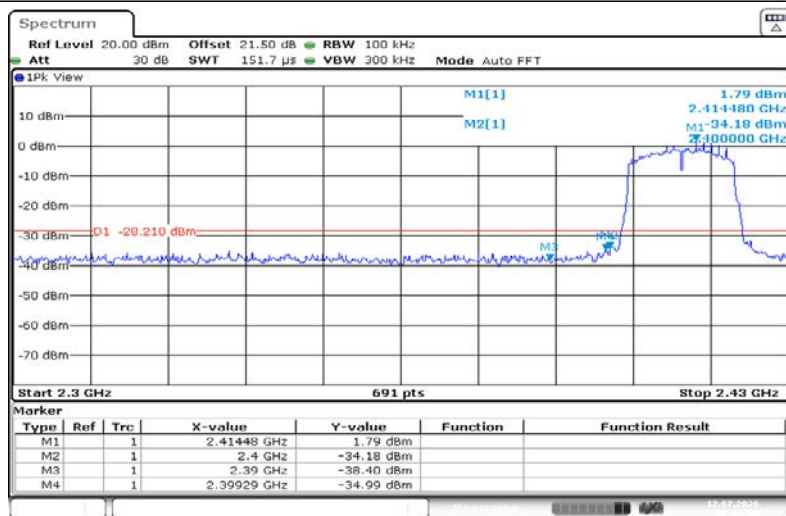
11B-Ant1-2462-PASS



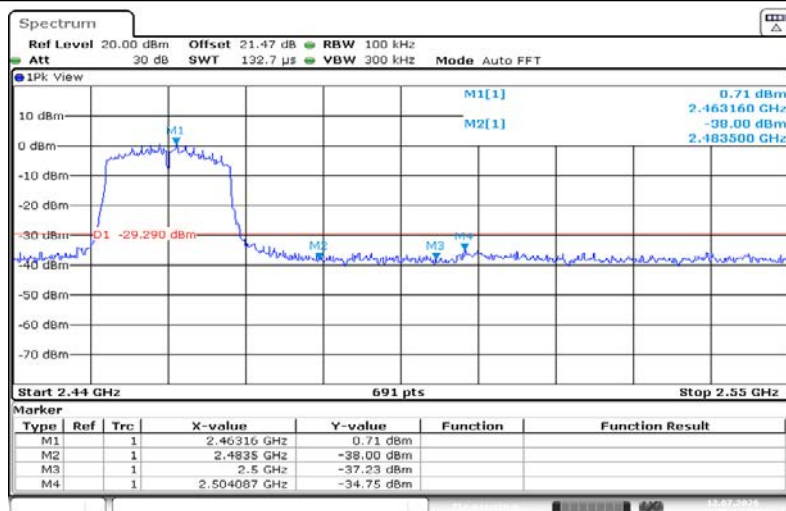
11G-Ant1-2412-PASS



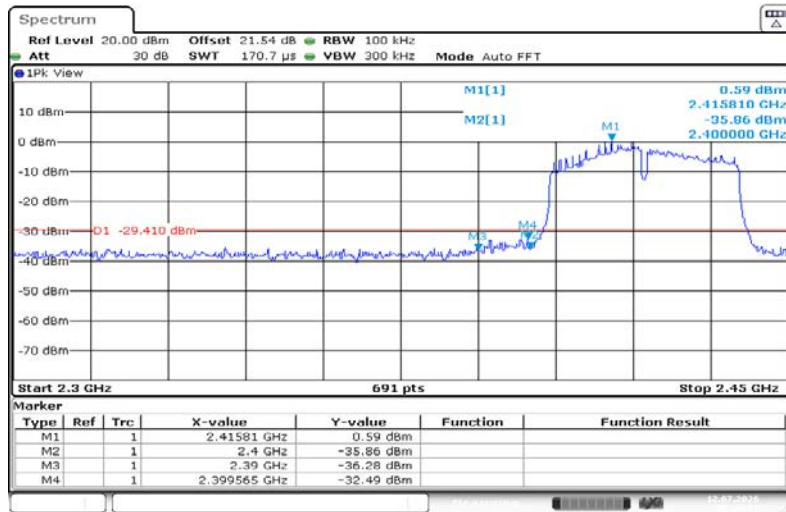
11G-Ant1-2462-PASS



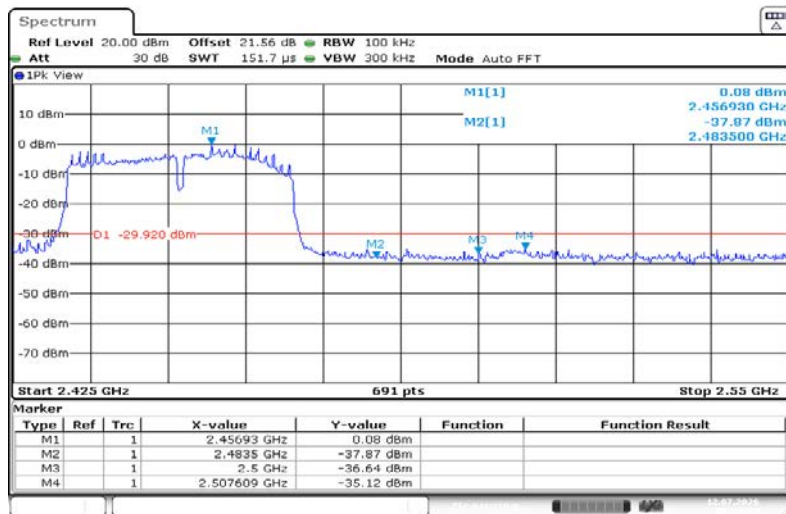
11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS



11N40ISO-Ant1-2422-PASS



11N40ISO-Ant1-2452-PASS

3.4 6dB Bandwidth

3.4.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

3.4.2 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme

Note: ☒ : Test ☐ : No Test

a) The EUT was connected to the tonscend test system, and the spectrum analyser is set as follow:

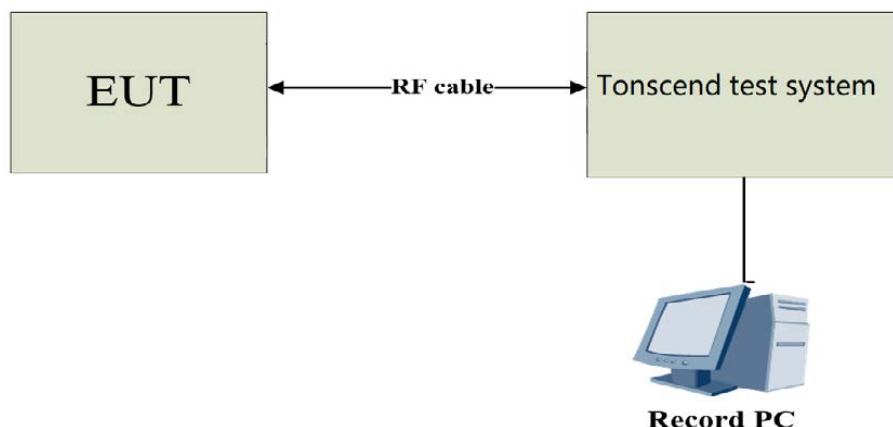
Centre Frequency	The centre frequency of the channel under test
RBW	1%~5% OBW but not less than 100 kHz.
VBW	≥ 3 RBW
Frequency span	2x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

b) Wait for the trace to stabilize then find the peak value of the trace and place the analyser marker on this peak.

c) Use the -6dB bandwidth function of the spectrum analyser to measure the 6dB Bandwidth of the EUT. This value shall be recorded.

d) Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

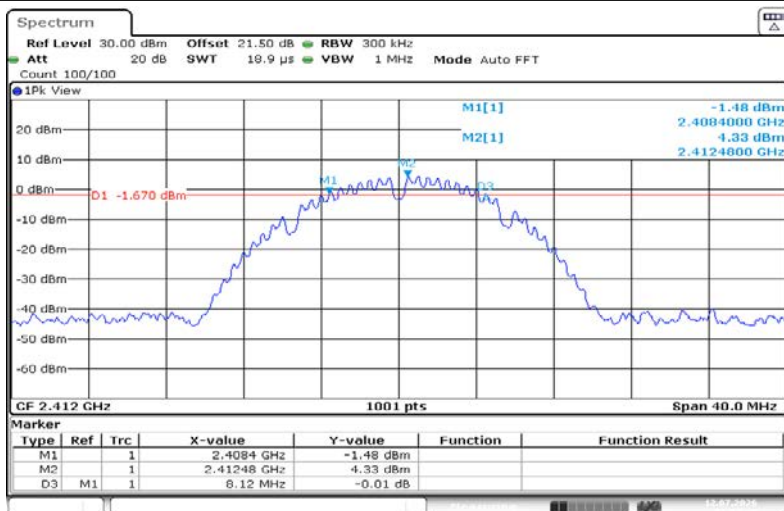
3.4.3 Test Setup



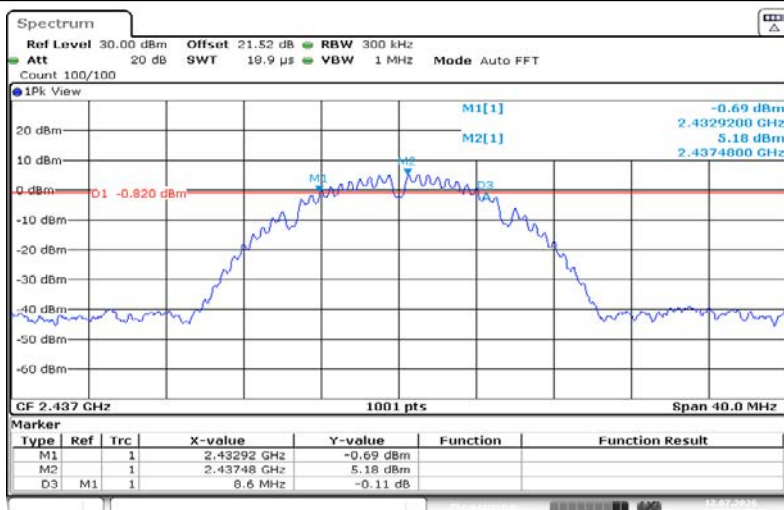
3.4.4 Test Result

DTS Bandwidth

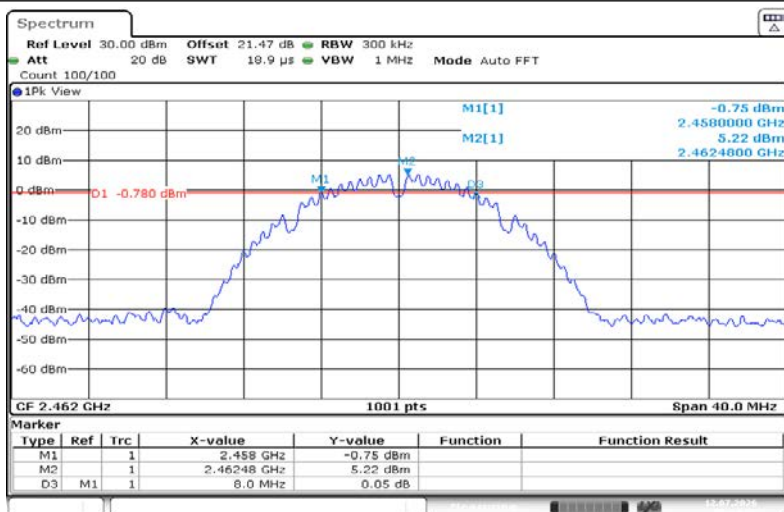
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.12	2408.40	2416.52	0.5	PASS
11B	Ant1	2437	8.60	2432.92	2441.52	0.5	PASS
11B	Ant1	2462	8.00	2458.00	2466.00	0.5	PASS
11G	Ant1	2412	16.24	2403.88	2420.12	0.5	PASS
11G	Ant1	2437	15.60	2429.52	2445.12	0.5	PASS
11G	Ant1	2462	15.88	2453.88	2469.76	0.5	PASS
11N20SISO	Ant1	2412	17.12	2403.40	2420.52	0.5	PASS
11N20SISO	Ant1	2437	16.36	2429.44	2445.80	0.5	PASS
11N20SISO	Ant1	2462	16.36	2453.40	2469.76	0.5	PASS
11N40SISO	Ant1	2422	31.12	2408.80	2439.92	0.5	PASS
11N40SISO	Ant1	2437	36.40	2418.84	2455.24	0.5	PASS
11N40SISO	Ant1	2452	32.96	2434.08	2467.04	0.5	PASS



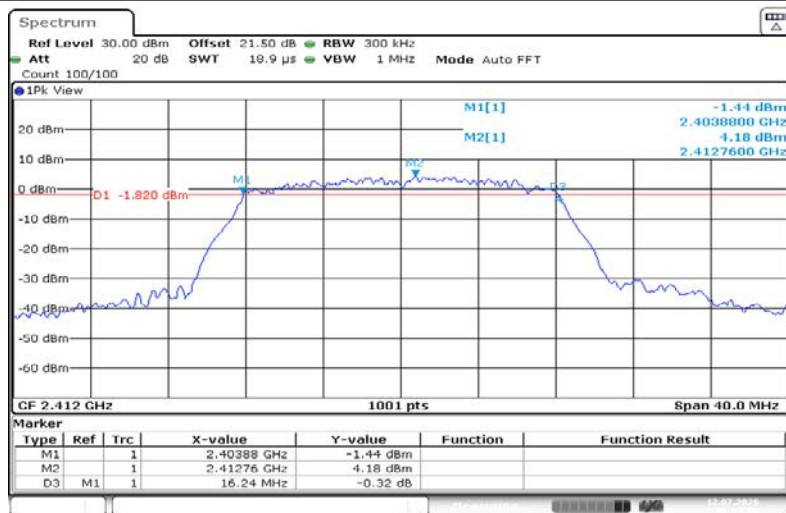
11B-Ant1-2412-PASS



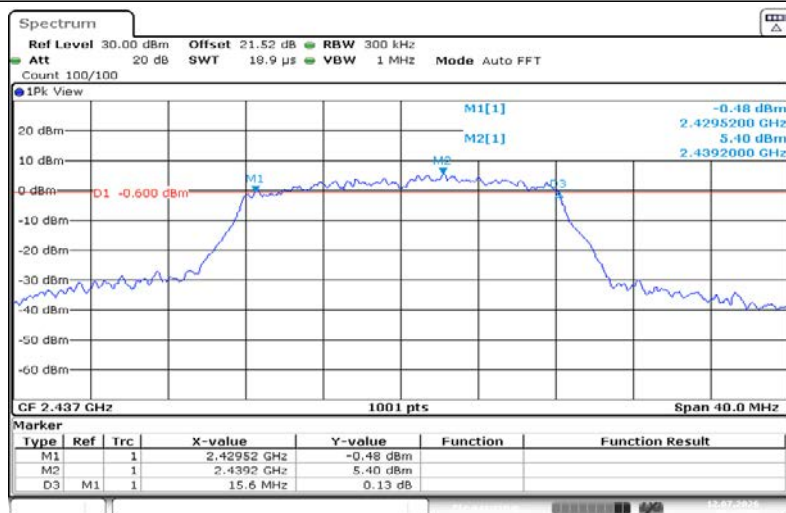
11B-Ant1-2437-PASS



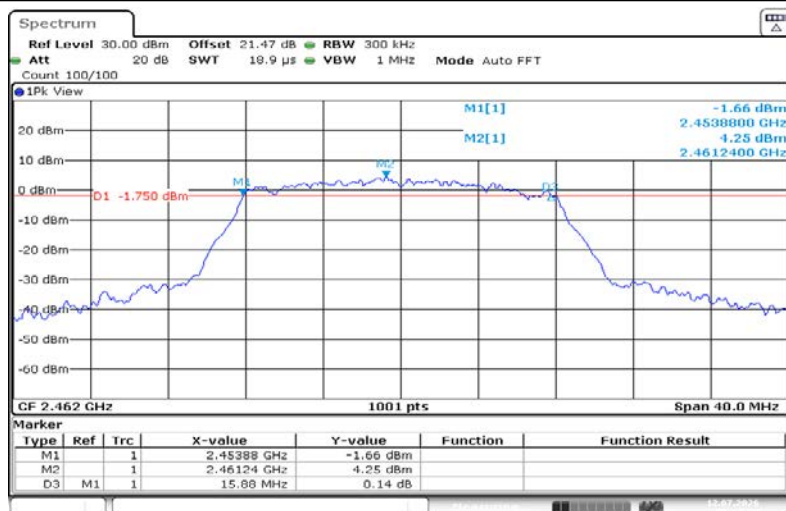
11B-Ant1-2462-PASS



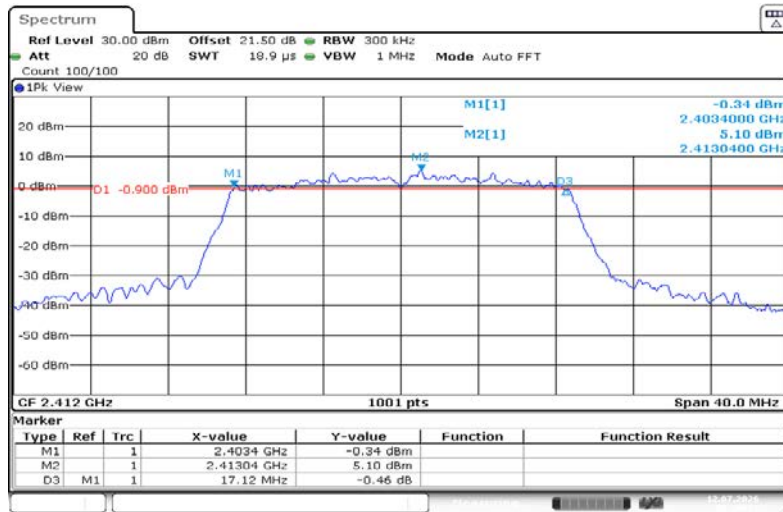
11G-Ant1-2412-PASS



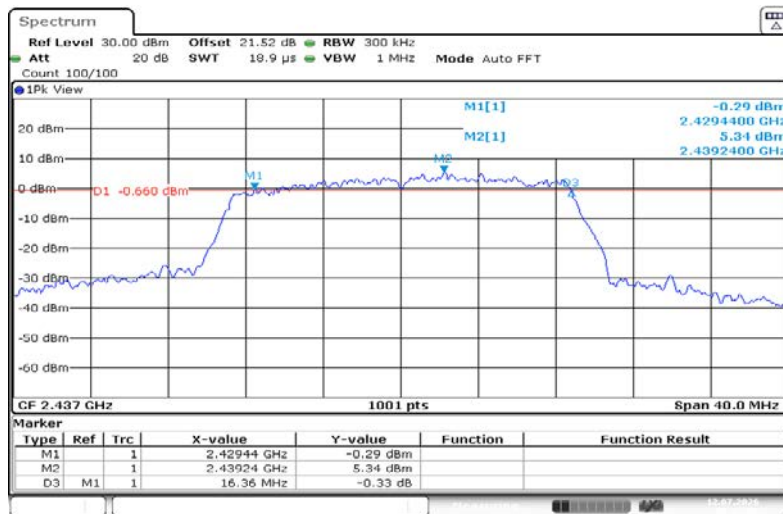
11G-Ant1-2437-PASS



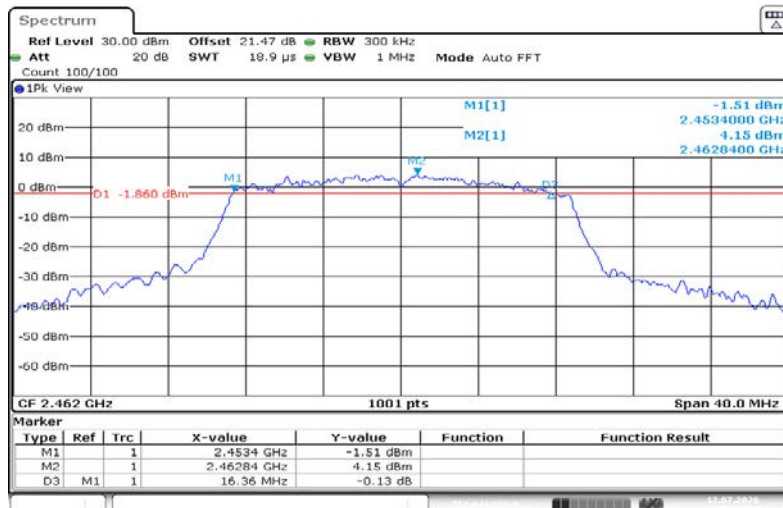
11G-Ant1-2462-PASS



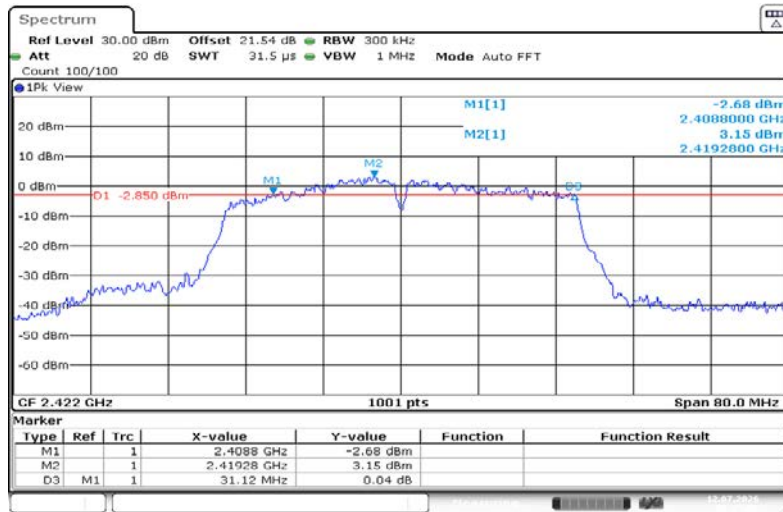
11N20SISO-Ant1-2412-PASS



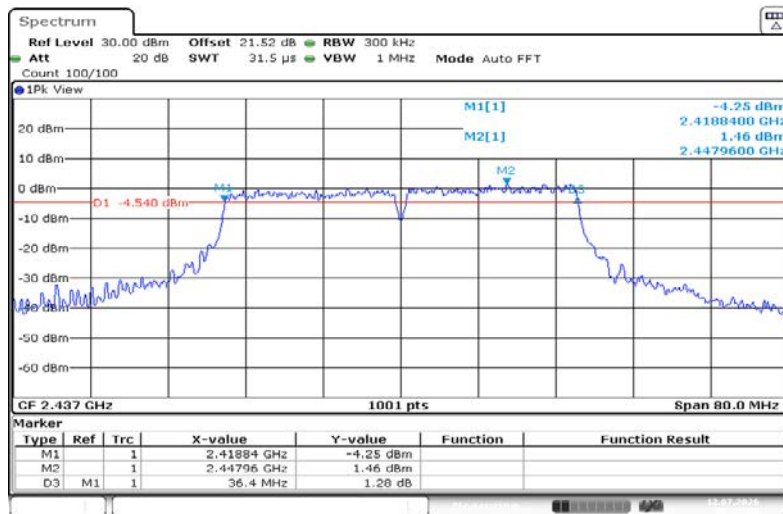
11N20SISO-Ant1-2437-PASS



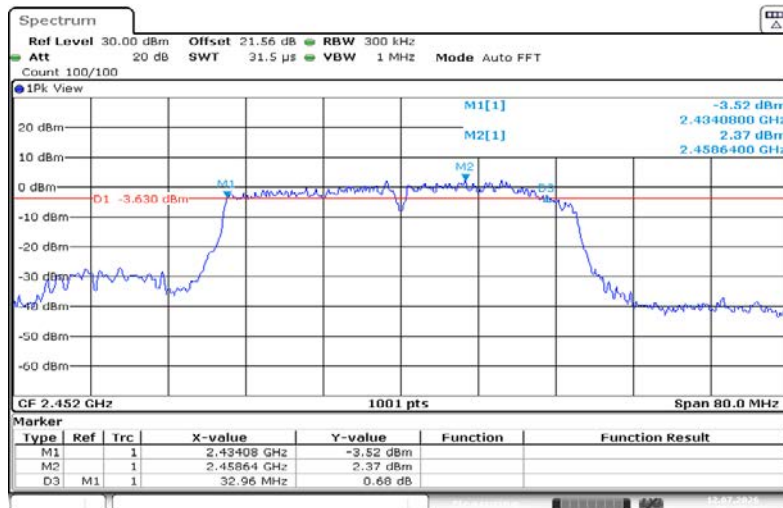
11N20SISO-Ant1-2462-PASS



11N40ISO-Ant1-2422-PASS



11N40ISO-Ant1-2437-PASS

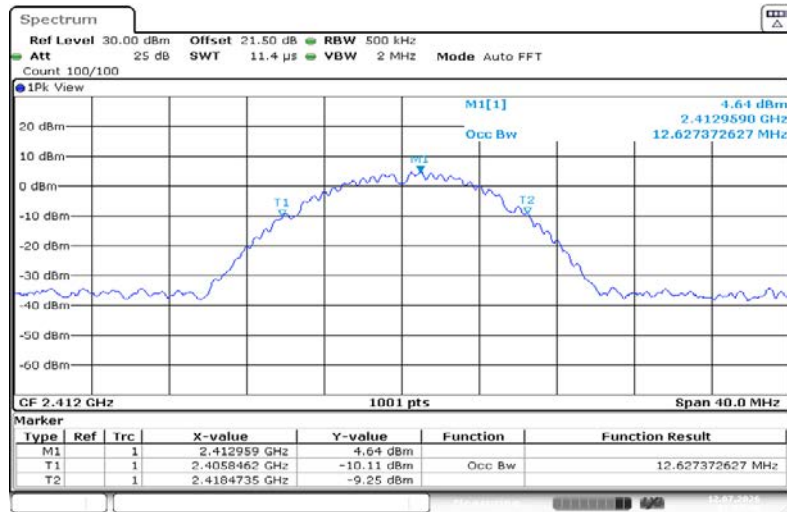


11N40ISO-Ant1-2452-PASS

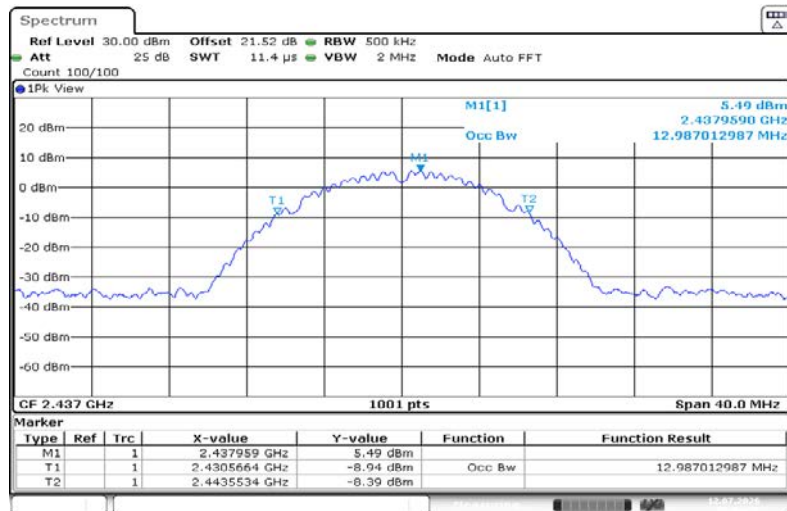
Occupied Channel Bandwidth

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.627	2405.8462	2418.4735	---	---
11B	Ant1	2437	12.987	2430.5664	2443.5534	---	---
11B	Ant1	2462	12.268	2455.8462	2468.1139	---	---
11G	Ant1	2412	17.023	2403.4885	2420.5115	---	---
11G	Ant1	2437	17.103	2428.7283	2445.8312	---	---
11G	Ant1	2462	16.863	2453.6084	2470.4715	---	---
11N20SISO	Ant1	2412	17.822	2403.0889	2420.9111	---	---
11N20SISO	Ant1	2437	18.142	2428.0889	2446.2308	---	---
11N20SISO	Ant1	2462	17.862	2453.0090	2470.8711	---	---
11N40SISO	Ant1	2422	35.884	2404.2577	2440.1419	---	---
11N40SISO	Ant1	2437	37.243	2418.8581	2456.1009	---	---
11N40SISO	Ant1	2452	36.044	2433.6983	2469.7423	---	---

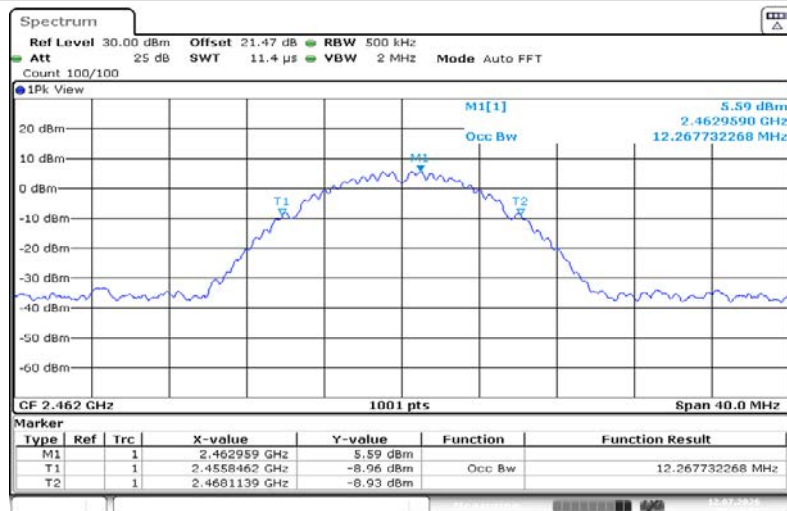
Test Graphs



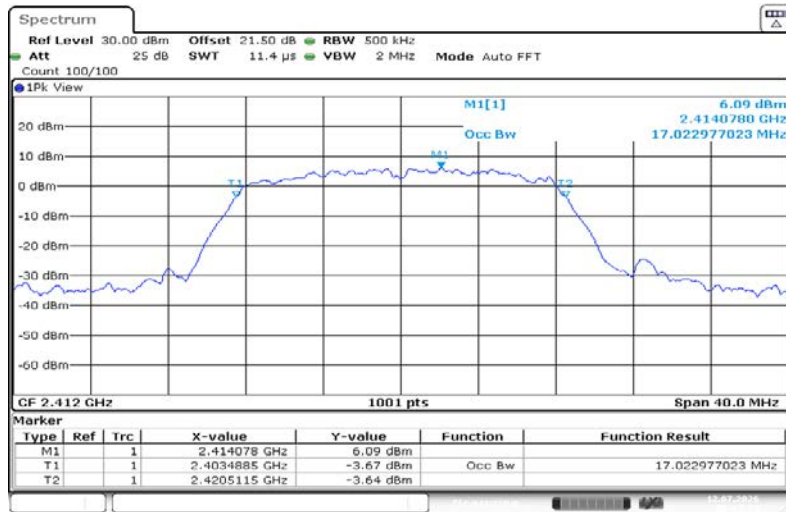
11B-Ant1-2412



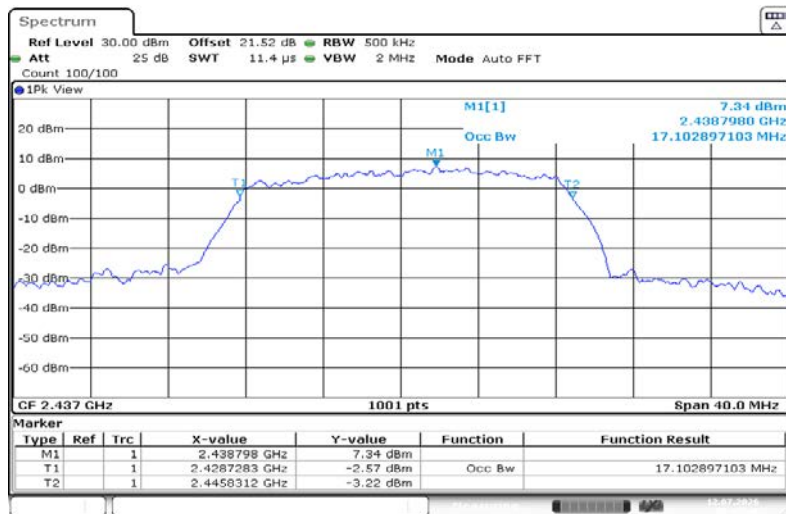
11B-Ant1-2437



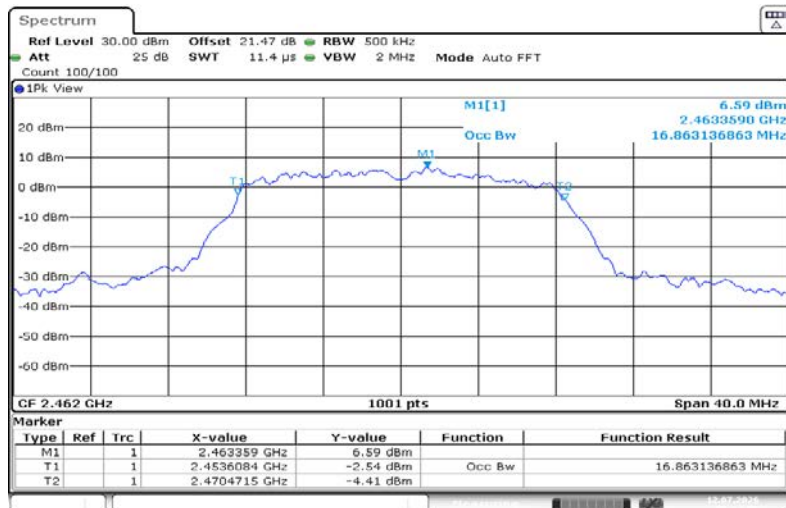
11B-Ant1-2462



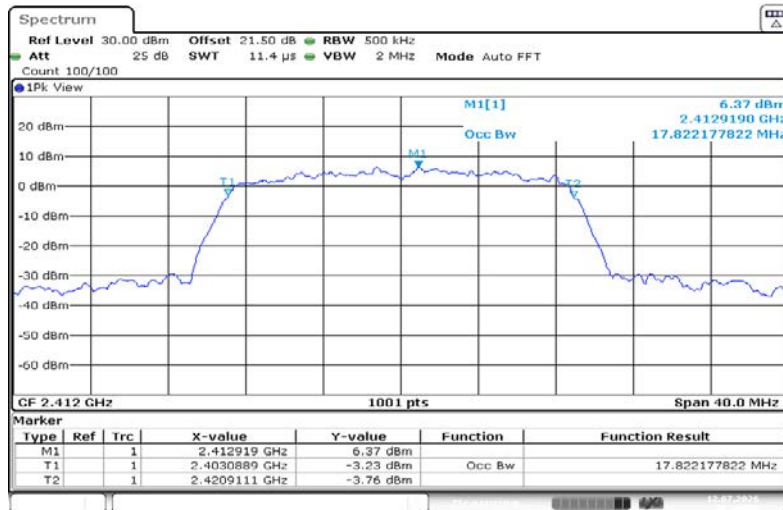
11G-Ant1-2412



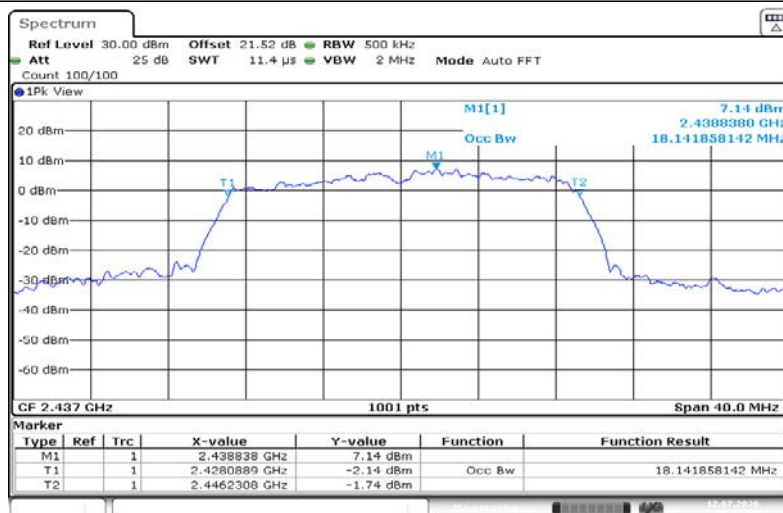
11G-Ant1-2437



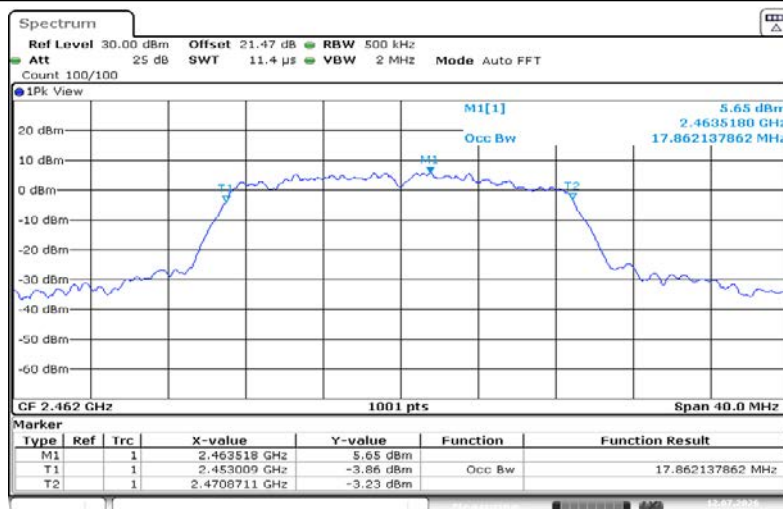
11G-Ant1-2462



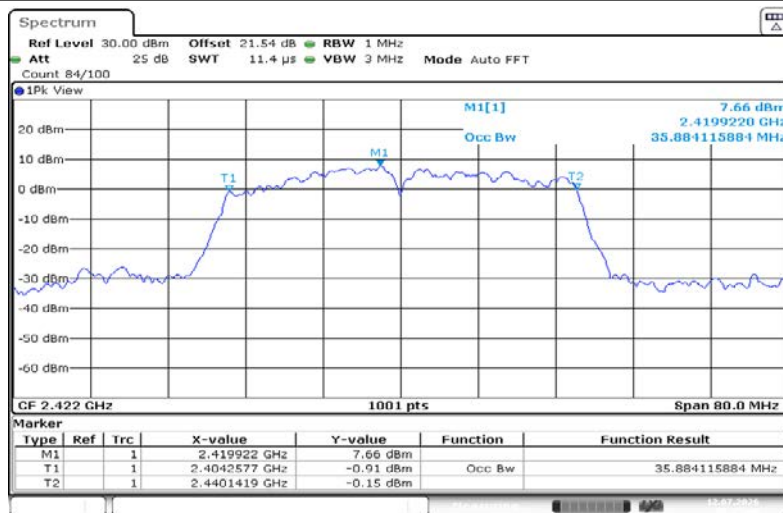
11N20SISO-Ant1-2412



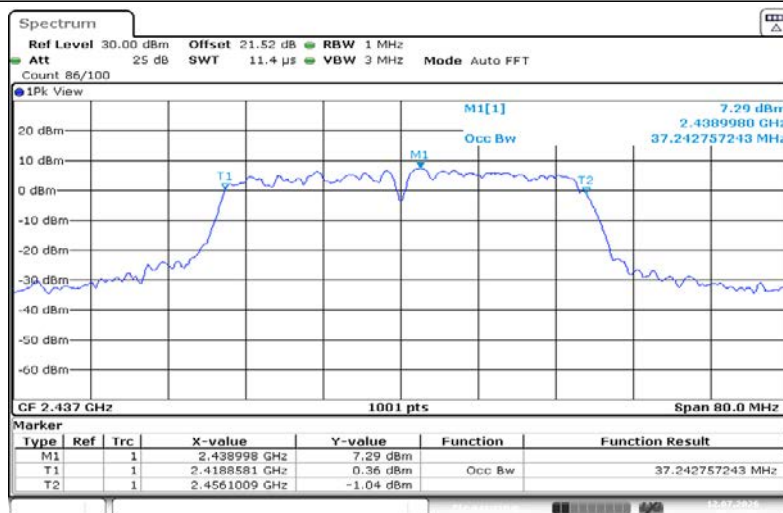
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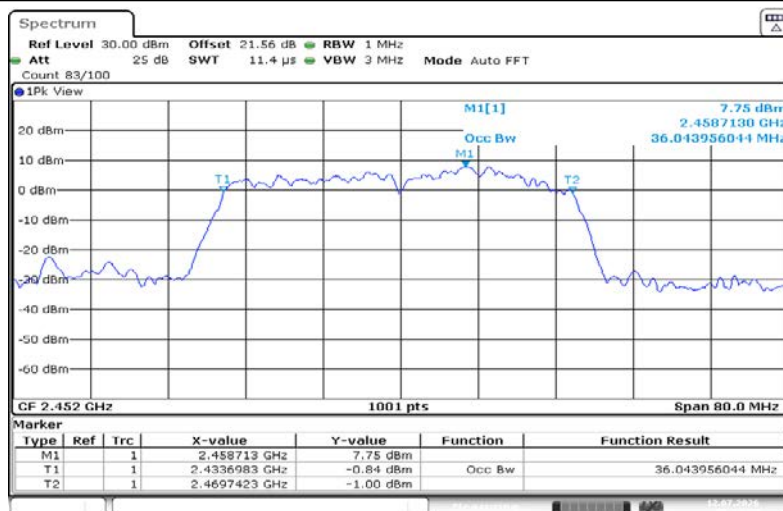
11N20SISO-Ant1-2462



11N40SISO-Ant1-2422



11N40SISO-Ant1-2437



11N40SISO-Ant1-2452

3.5 Maximum conducted output power

3.5.1 Limit

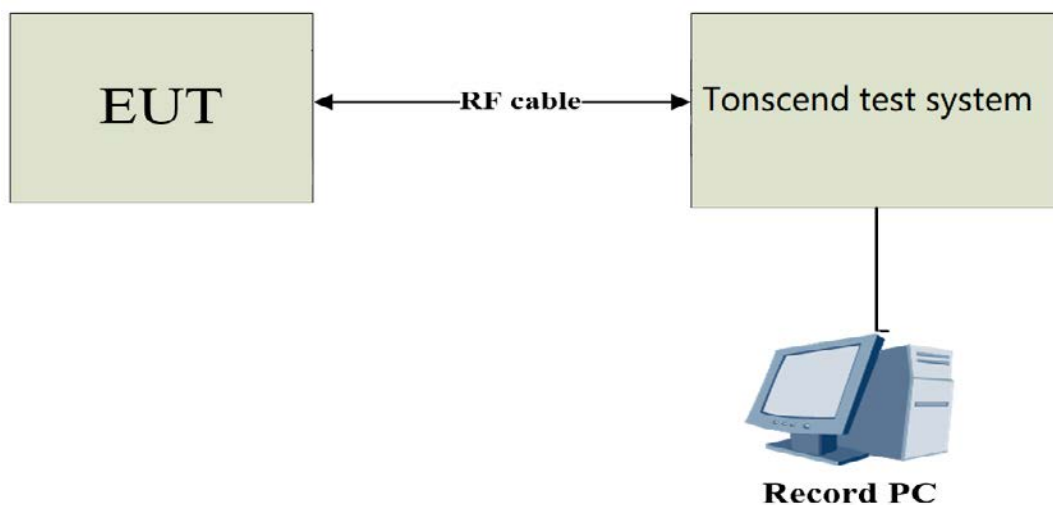
For systems using digital modulation in the 2400~2483.5MHz, The Maximum output Power shall not exceed 1W(30dBm)

3.5.2 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

- a) The EUT was directly connected to the tonskend test system and antenna output port as show in the block diagram below.
- b) The maximum conducted output power was performed in accordance with method 11.9.1.2 (for peak power) of ANSI C63.10-2020.

3.5.3 Test Setup



3.5.4 Table of Parameters of Text Software Setting

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.

For Power setting value			
Test Mode	Power Level Setting defined by Manufacturer		
Test Software			
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	Default	Default	Default
IEEE 802.11g	Default	Default	Default
IEEE 802.11n(20)	Default	Default	Default
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(40)	Default	Default	Default

3.5.5 The Result

Test Mode	Antenna	Frequency[MHz]	Maximum conducted output Power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.11	≤30.00	PASS
		2437	13.90	≤30.00	PASS
		2462	12.80	≤30.00	PASS
11G	Ant1	2412	12.19	≤30.00	PASS
		2437	12.66	≤30.00	PASS
		2462	11.87	≤30.00	PASS
11N20SISO	Ant1	2412	13.18	≤30.00	PASS
		2437	13.62	≤30.00	PASS
		2462	12.73	≤30.00	PASS
11N40SISO	Ant1	2422	13.73	≤30.00	PASS
		2437	12.55	≤30.00	PASS
		2452	13.39	≤30.00	PASS

3.6 Power Spectral Density

3.6.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmitting.

3.6.2 Test Procedure

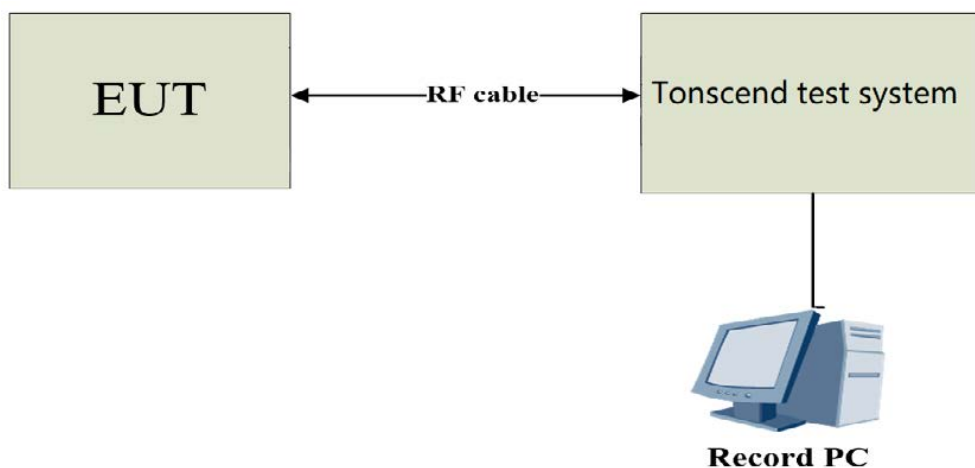
Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below.

b) Spectrum analyser settings as following:

Spectrum Parameters	Setting
Span Frequency	1.5 times the DTS bandwidth
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

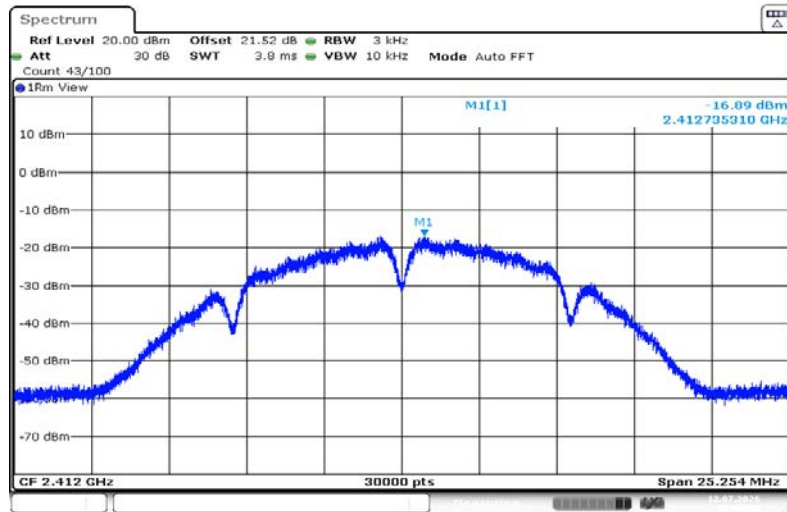
3.6.3 Test Setup



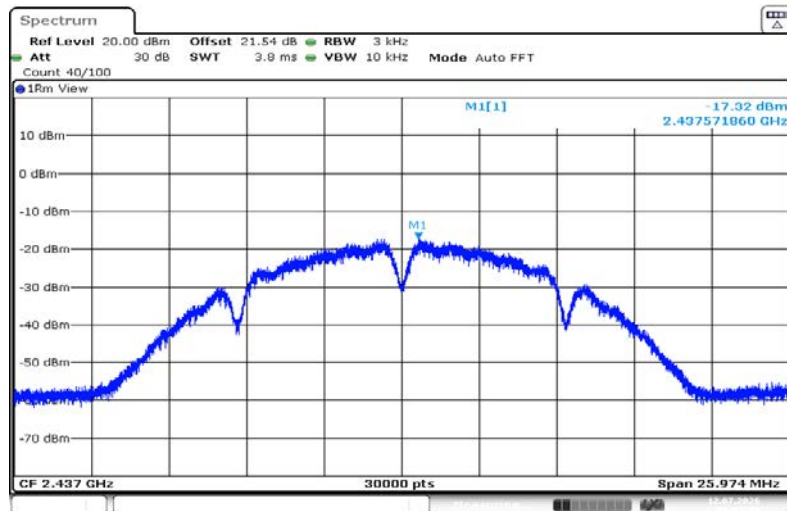
3.6.4 The Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.89	≤8.00	PASS
		2437	-17.32	≤8.00	PASS
		2462	-17.10	≤8.00	PASS
11G	Ant1	2412	-19.37	≤8.00	PASS
		2437	-18.49	≤8.00	PASS
		2462	-17.11	≤8.00	PASS
11N20SISO	Ant1	2412	-18.81	≤8.00	PASS
		2437	-18.75	≤8.00	PASS
		2462	-17.25	≤8.00	PASS
11N40SISO	Ant1	2422	-19.35	≤8.00	PASS
		2437	-21.40	≤8.00	PASS
		2452	-20.16	≤8.00	PASS

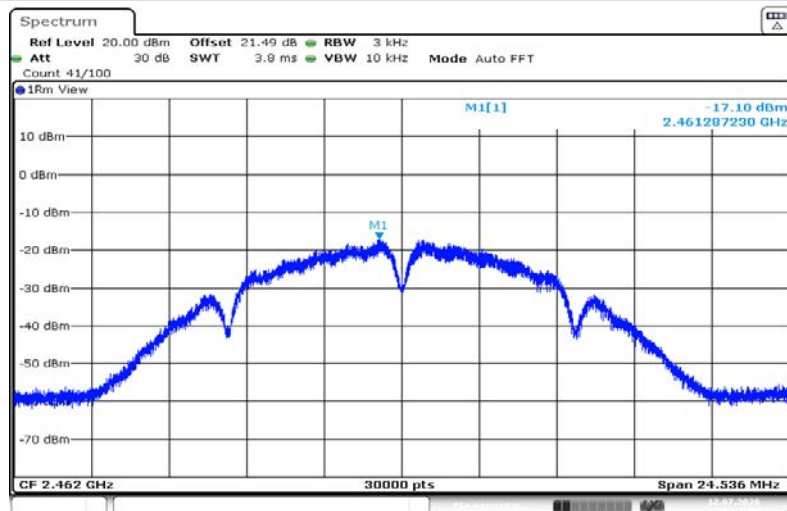
Test Graphs



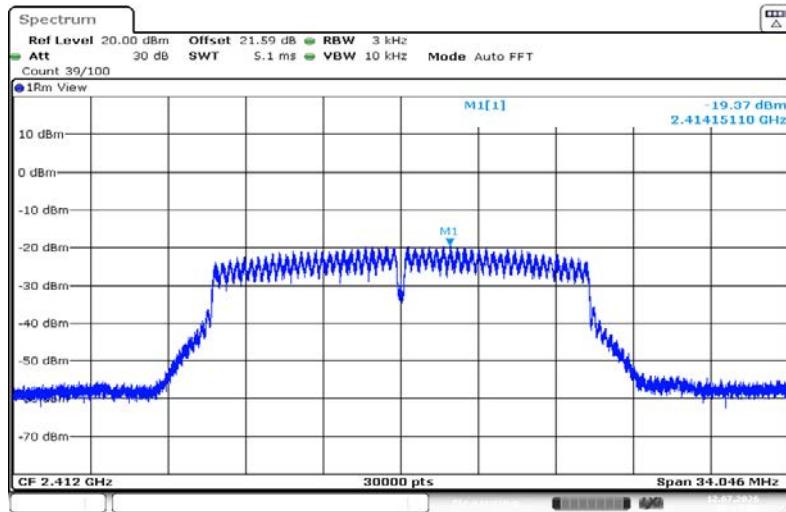
11B-Ant1-2412-PASS



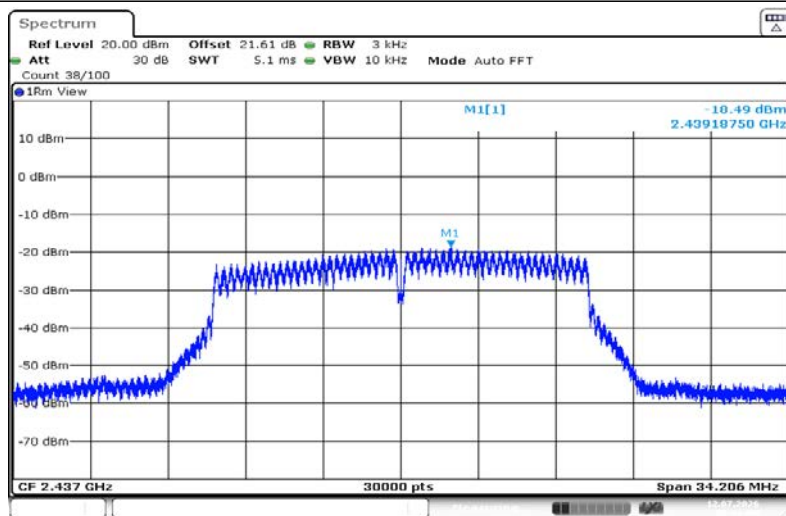
11B-Ant1-2437-PASS



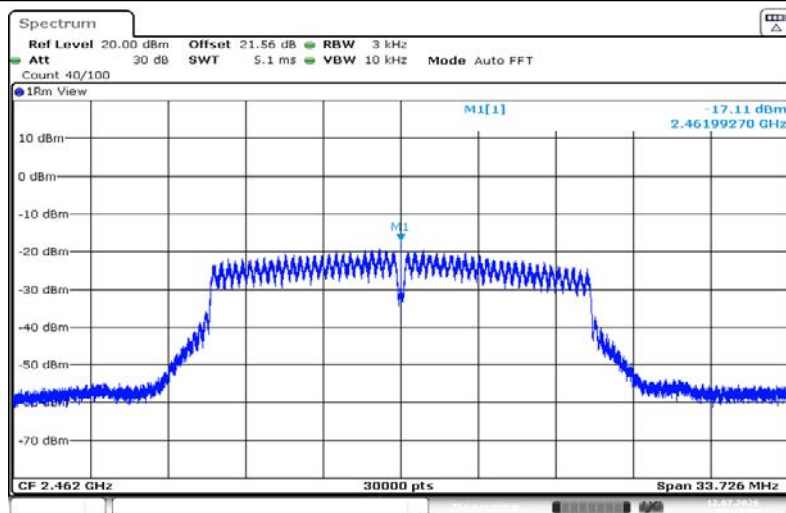
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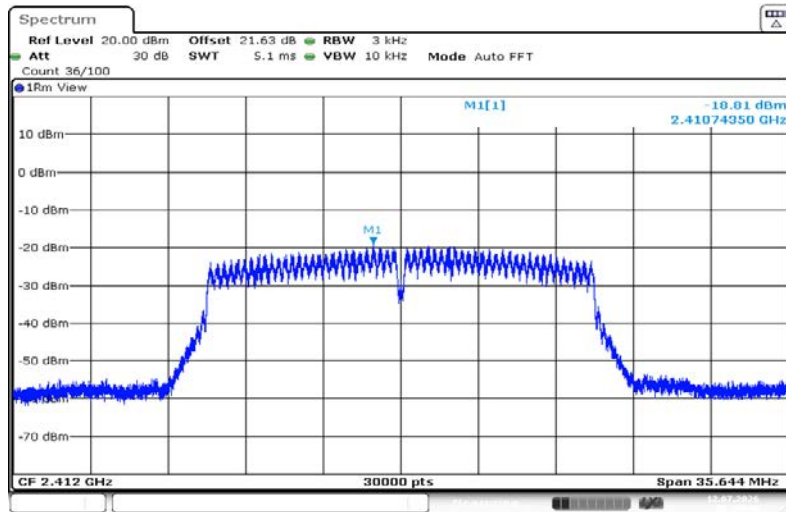
11G-Ant1-2412-PASS



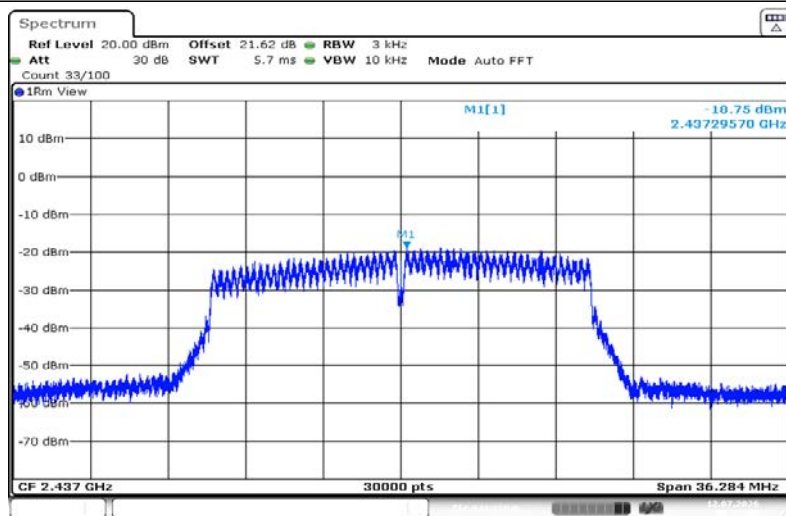
11G-Ant1-2437-PASS



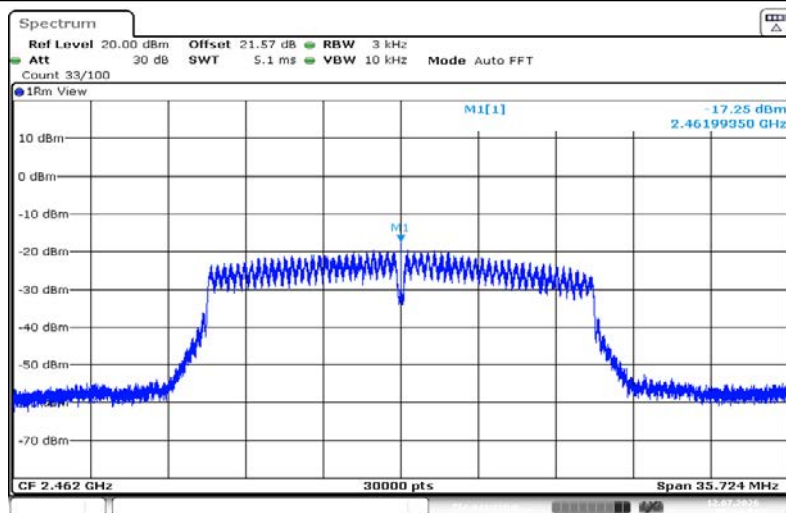
11G-Ant1-2462-PASS



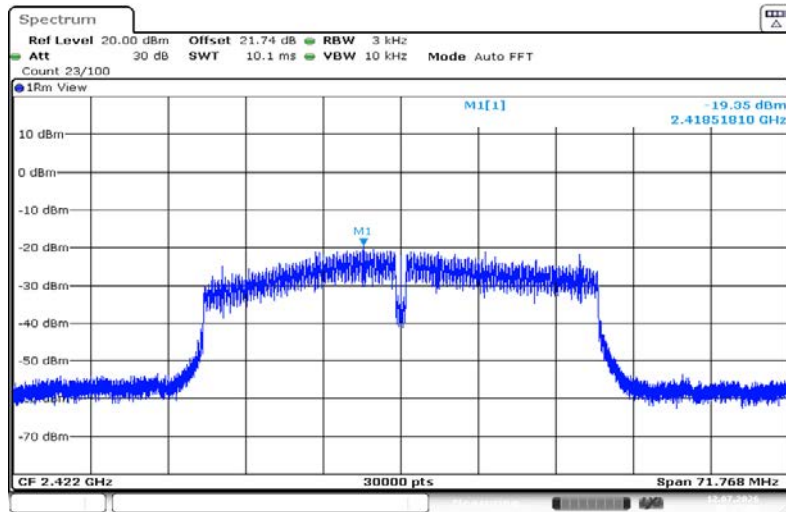
11N20SISO-Ant1-2412-PASS



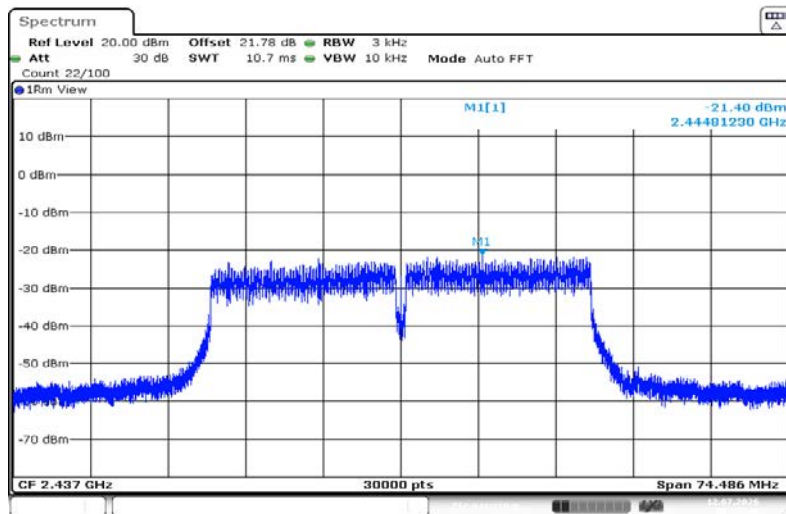
11N20SISO-Ant1-2437-PASS



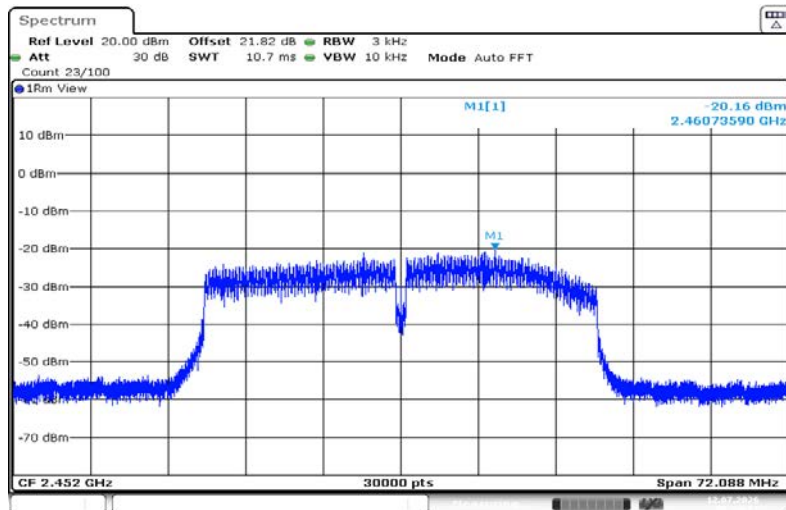
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technical Co., Ltd.

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End of Test Report