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Test report No: 4941733.52

TEST REPORT
Radio Spectrum Matters (RF)

Identification of item tested	LED Device
Trademark	PHILIPS
Model and /or type reference	42949
FCC ID	2AGBW9290042949X
Features	24 Vdc
Applicant´s name / address	Signify (China) Investment Co.,Ltd. Building no.9, Lane888, Tianlin Road, Minhang District, Shanghai 200233, China
Test method requested, standard	FCC CFR Title 47 Part15 Subpart C Section 15.247; KDB558074 D01v05r02;
Verdict Summary	COMPLIANCE
Tested by (name & signature)	Johnny Bo Johnny Bo
Approved by (name & signature)	Tim Yan Tim Yan
Date of issue	2025-11-18
Report template No	TRF_EMC 2017-06- FCC_Part15C_247

INDEX

page

General conditions 4
Uncertainty 4
Environmental conditions 4
Possible test case verdicts 4
Definition of symbols used in this test report 5
Abbreviations 5
Document History 5
Remarks and Comments 5
1 General Information 6
1.1 General Description of the Item(s) 6
1.2 Test data 7
1.3 The environment(s) in which the EUT is intended to be used 7
1.4 Channel List 8
2 Description of Test Setup 9
2.1 Operating mode(s) used for tests 9
2.2 Support / Auxiliary equipment / unit / software for the EUT 9
2.3 Test Configuration / Block diagram used for tests 9
2.4 Measurement procedure 10
3 Verdict summary section 11
3.1 Standards 11
3.2 Deviation(s) from the Standard(s) / Test Specification(s) 11
3.3 Overview of results 11
4 Transmitter Test Results 12
4.1 AC Power Line Conducted Emission 12
4.2 Emissions in non-restricted frequency bands 15
4.3 Emissions in restricted frequency bands 40
4.4 Band Edge 63
4.5 Duty cycle 74
4.6 DTS Bandwidth 78
4.7 Fundamental emission output power 95
4.8 Power Density 104
5 Identification of the Equipment Under Test 115
Annex 1 – Measurement Uncertainty 116
Annex 2 - Used Equipment 117

Annex 3 - Test Photos..... 119

GENERAL CONDITIONS

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.
5. This report will not be used for social proof function in China market.

UNCERTAINTY

For all measurements where guidance for the calculation of the instrumentation uncertainty of a measurement is specified in EN 55016-4-2 (CISPR 16-4-2), EN/IEC 61000-4 series or a product standard, the measurement instrumentation uncertainty has been calculated and applied in accordance with these standards.

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	-40 °C – 105 °C
Relative Humidity air	30% - 60%
Atmospheric pressure	86 kPa – 106 kPa

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not tested	N/T

DEFINITION OF SYMBOLS USED IN THIS TEST REPORT

☒ Indicates that the listed condition, standard or equipment is applicable for this report/test/EUT.				
☐ Indicates that the listed condition, standard or equipment is not applicable for this report/test/EUT.				
Decimal separator used in this report	☐	Comma (,)	☒	Point (.)

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	:	Equipment Under Test
QP	:	Quasi-Peak
CAV	:	CISPR Average
AV	:	Average
CDN	:	Coupling Decoupling Network
SAC	:	Semi-Anechoic Chamber
OATS	:	Open Area Test Site
BW	:	Bandwidth
AM	:	Amplitude Modulation
PM	:	Pulse Modulation
HCP	:	Horizontal Coupling Plane
VCP	:	Vertical Coupling Plane
U_N	:	Nominal voltage
*T*x	:	Transmitter
*R*x	:	Receiver
N/A	:	Not Applicable
N/M	:	Not Measured

DOCUMENT HISTORY

Report nr.	Date	Description
4941733.52	2025-11-18	First release.

REMARKS AND COMMENTS

The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Description of the item ..... :	LED Device
Trademark ..... :	PHILIPS
Model / Type number ..... :	42949
FCC ID ..... :	2AGBW9290042949X
Hardware ..... :	N/A
Software ..... :	N/A
Firmware ..... :	N/A
Ratings ..... :	24 Vdc
Manufacturer..... :	Same as applicant
Factory ..... :	Guangdong Shimmering Lighting Technology Co., Ltd Building 18th, Keyuan East Road, High Tech District, Jiangmen City, China

Based on customer declaration:The product contains wireless RF module and the characteristics of radio module are:

Zigebee

Operating frequency range(s) – Tx :	2400~2483.5MHz
Type of Modulation ..... :	O-QPSK
Data Rate	250 kbps
Antenna type..... :	Integral Antenna
Maximum RF output power (EIRP) :	8.72 dBm
Antenna gain..... :	2.22 dBi
Number of channel..... :	11
Operating Temperature Range..... :	-20 – +100℃

BLE:

Operating frequency range(s) – Tx :	2400~2483.5MHz
Type of Modulation ..... :	GFSK
Data Rate	1Mbps, 2Mbps, 500kbps,125kbps
Antenna type..... :	Integral Antenna
Maximum RF output power (EIRP) :	8.62 dBm
Antenna gain..... :	2.22 dBi
Number of channel..... :	40
Operating Temperature Range..... :	-20 – +100℃

			Reference poles				
Rated power supply .....:	Voltage and Frequency		L1	L2	L3	N	PE
	☐	AC:	☐	☐	☐	☐	☐
	☒	DC: 24 V					
	☐	Battery:					
Mounting position.....:	☐	Table top equipment					
	☒	Wall/Ceiling mounted equipment					
	☐	Floor standing equipment					
	☐	Hand-held equipment					
	☐	Other: Built-in					

Intended use of the Equipment Under Test (EUT)
The apparatus as supplied for the test are LED Device intended for residential use and the product contains electronic control circuitry. The product is controlled via the mobile APP: Hue. Hence, model 42949 was chosen for full test.

Copy of marking plate:
No provide.

1.2 Test data

Test Location	DEKRA Testing and Certification (Shanghai) Ltd. Guangzhou Branch Block 5, No.3, Qiyun Road, Huangpu District, Guangzhou, Guangdong, China FCC Designation Number: CN1324;
Date of receipt of test item	2025-07-18
Date (s) of performance of tests	2025-07-18 to 2025-08-20
Test sample	Normal sample: 42949 (lab on.4941733-1) RF conducted sample: 42949 (lab on.4941733-2) RF radiated sample: 42949 (lab on.4941733-3)

1.3 The environment(s) in which the EUT is intended to be used

The equipment under test (EUT) is intended to be used in the following environment(s):

☒	Residential (domestic) environment.
☒	Commercial and light-industrial environment.
☐	Industrial environment.

1.4 Channel List

The radio module (Bluetooth) operating channels are:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454	-	-
13	2428	27	2456	-	-

The radio module (Zigbee) operating channels are:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	-	14	2420	-	-
1	-	15	2425	-	-
2	-	16	2430	-	-
3	-	17	2435	-	-
4	-	18	2440	-	-
5	-	19	2445	-	-
6	-	20	2450	-	-
7	-	21	2455	-	-
8	-	22	2460	-	-
9	-	23	2465	-	-
10	-	24	2470	-	-
11	2405	25	2475	-	-
12	2410	26	2480	-	-
13	2415	-	-	-	-

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

Operating mode	Operating mode description	Used for methos	
		Conducted	Radiated
1	Transmitting at BLE	☒	☒
2	Transmitting at Zigbee	☒	☒
3			
4			
Supplemental information: ---			

2.2 Support / Auxiliary equipment / unit / software for the EUT

The EUT has been tested with the following auxiliary equipment / unit / software:

Auxiliary equipment / unit / software	Type / Version	Manufacturer	Supplied by
Laptop	Latitude 5488	DELL	DEKRA
Hue debug board (red board)	---	---	Client
Supplemental information: ---			

2.3 Test Configuration / Block diagram used for tests

Refer to Annex 3.

2.4 Measurement procedure

The EUT was controlled by a Hue debug board (red board) which provided by manufacturer which connected to laptop through the com port. After connected, run the software “Hue Approbation Tool” to control the EUT work in required test mode as below table.

Mode	Frequency (MHz)	Power setting
BLE	2402	8
	2440	8
	2480	8

Mode	Frequency (MHz)	Power setting
Zigbee	2405	8
	2450	8
	2480	8

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart C Section 15.247	2025	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
KDB 558074 D01 v05r02	2019	Guidance for performing compliance measurements on Digital Transmission System (DTS) operating under section 15.247
ANSI C63.10	2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

3.3 Overview of results

FCC measurement			
Requirement – Test case	**Basic standard(s)**	**Verdict**	**Remark**
AC Power Line Conducted Emission	FCC 15.207	PASS	---
Emissions in non-restricted frequency bands	FCC 15.247(d), FCC 15.209	PASS	---
Emissions in restricted frequency bands	FCC 15.247(b)(3)	PASS	---
Duty cycle	ANSI C63.10:2013	PASS	---
Band Edge	FCC 15.247(d)	PASS	---
Fundamental emission output power	FCC 15.247(d), FCC 15.209	PASS	---
DTS Bandwidth	FCC 15.247(a)(2)	PASS	---
Power Spectral Density	FCC 15.247(e)	PASS	---
Antenna Requirement	FCC 15.203	PASS	---
Supplementary information:			

The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to calculate the uncertainty associated with the measurement result.

4 TRANSMITTER TEST RESULTS

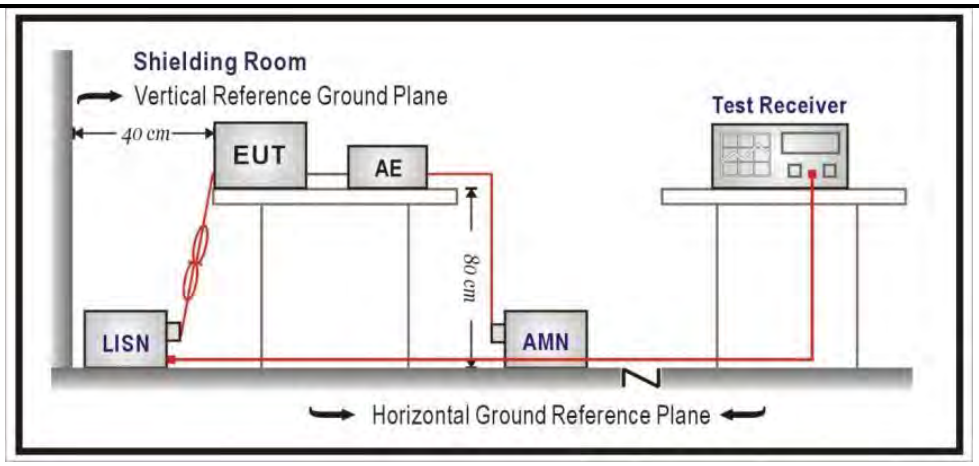
4.1	AC Power Line Conducted Emission	VERDICT: PASS

Limits

FCC Part 15 Subpart C Paragraph 15.207				
Frequency range [MHz]	Limit: QP [dB(μV)[1)]]	Limit: AV [dB(μV) [1)]]	IF BW	Detector(s)
0.15 - 0.50	66 – 56 [2)]	56 - 46 [2)]	9 KHz	QP, AV
0.50 - 5.0	56	46	9 KHz	QP, AV
5.0 - 30	60	50	9 KHz	QP, AV

[1)] At the transition frequency, the lower limit applies.
[2)] The limit decreases linearly with the logarithm of the frequency.

Test Configuration



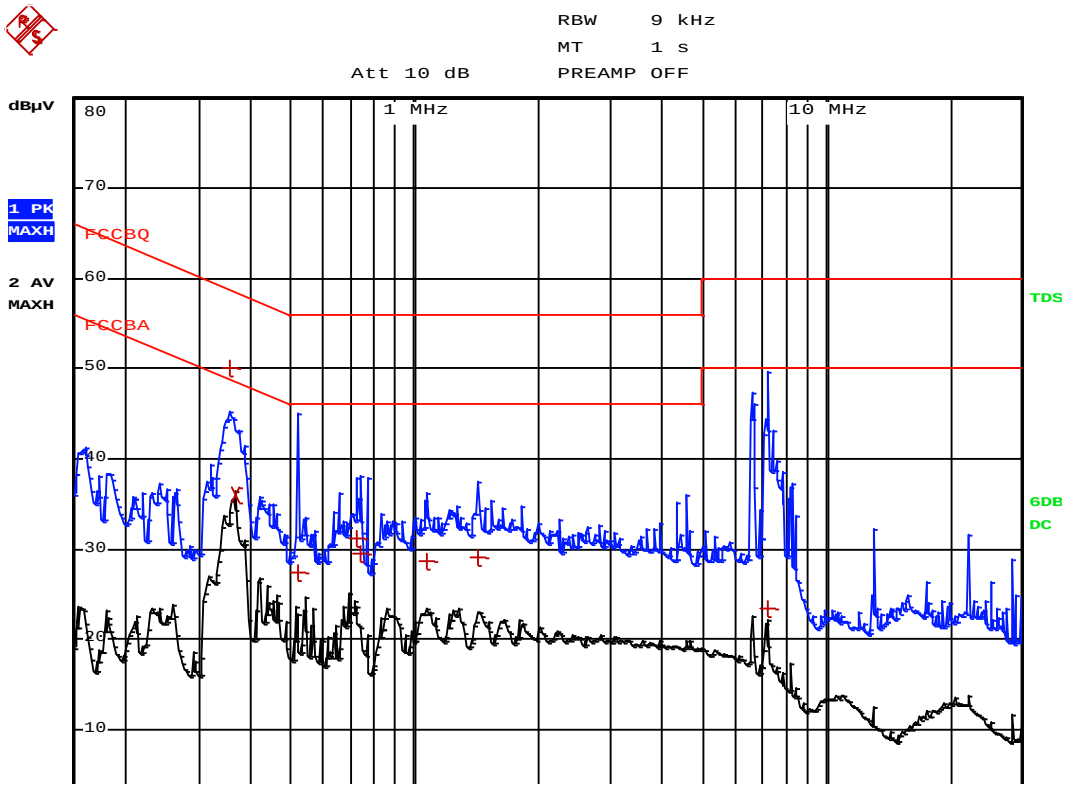
Performed measurements

Port under test		Terminal							
☒	AC mains input power	☒	N	☒	L1	☐	L2	☐	L3
☐	DC input power	☐	Positive (+)			☐	Negative (-)		

Test method applied	☒	Artificial mains network		
	☐	Voltage probe		
Test setup	☒	Table top	☐	Artificial hand applied
	☐	Floor standing	☐	Other:
	Refer to the Annex 2 for test setup photo(s).			
Envirment condition (temperature; humidiry)	23,0 °C; 45,0 %			
Remark	---			

Measurement data	Port under test	AC mains input power
Operating mode / voltage / frequency used during the test		Mode 1/24 Vdc – worst case

Live



EDIT PEAK LIST (Final Measurement Results)

Trace1:	FCCBQ
Trace2:	FCCBA
Trace3:	---

	TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1	Quasi Peak	354 kHz	50.11	-8.75
2	Average	366 kHz	36.03	-12.55
1	Quasi Peak	722 kHz	31.14	-24.85
1	Quasi Peak	738 kHz	29.48	-26.51
1	Quasi Peak	1.43 MHz	29.08	-26.91
1	Quasi Peak	1.07 MHz	28.55	-27.44
1	Quasi Peak	518 kHz	27.50	-28.50
1	Quasi Peak	7.238 MHz	23.36	-36.64

Remarks:

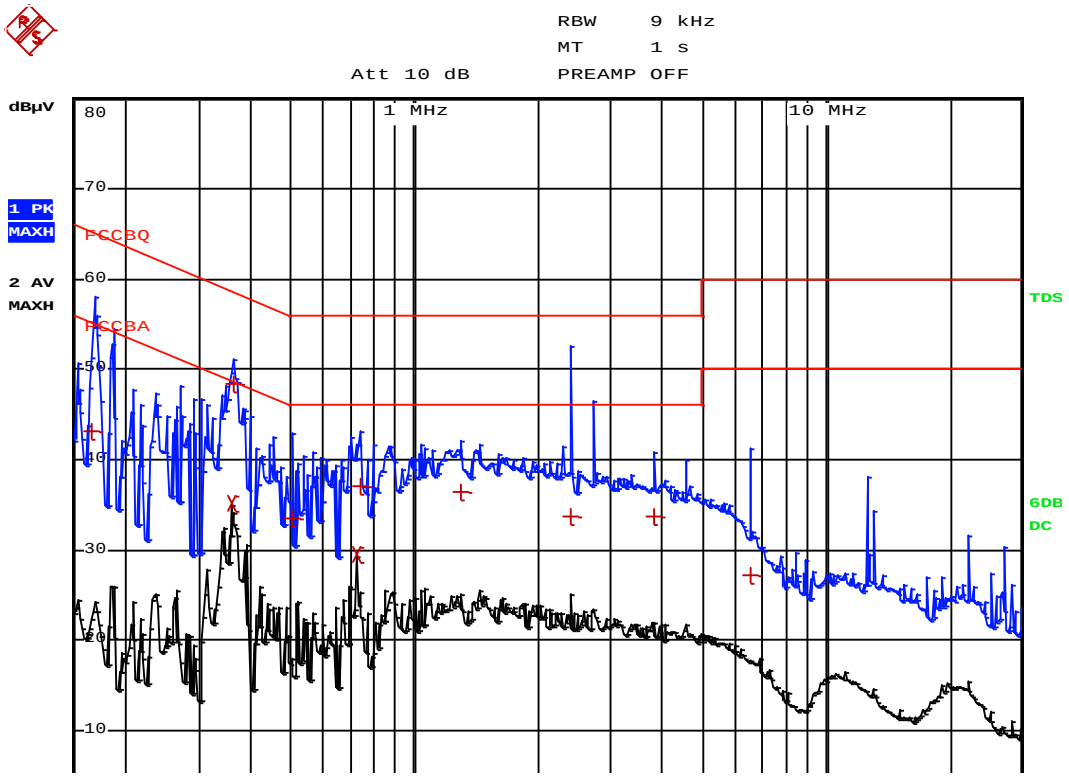
1) Level (Final measurement) = received value + transducer (Lisn + cable)

2) Delta = Level – Limit

No other significant emissions were measured at the frequency range of interest employing both the QP and AV detectors.

Measurement data	Port under test	AC mains input power

Neutral



EDIT PEAK LIST (Final Measurement Results)

Trace1: FCCBQ
Trace2: FCCBA
Trace3: ---

Date

	TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1	Quasi Peak	362 kHz	48.44	-10.24
2	Average	358 kHz	35.09	-13.68
2	Average	722 kHz	29.47	-16.53
1	Quasi Peak	738 kHz	37.02	-18.98
1	Quasi Peak	1.294 MHz	36.49	-19.50
1	Quasi Peak	166 kHz	43.21	-21.94
1	Quasi Peak	2.398 MHz	33.74	-22.26
1	Quasi Peak	3.85 MHz	33.71	-22.28
1	Quasi Peak	502 kHz	33.41	-22.58
1	Quasi Peak	6.57 MHz	27.13	-32.86

Remarks:

1) Level (Final measurement) = received value + transducer (Lisn + cable)

2) Delta = Level – Limit

No other significant emissions were measured at the frequency range of interest employing both the QP and AV detectors.

Remark	--

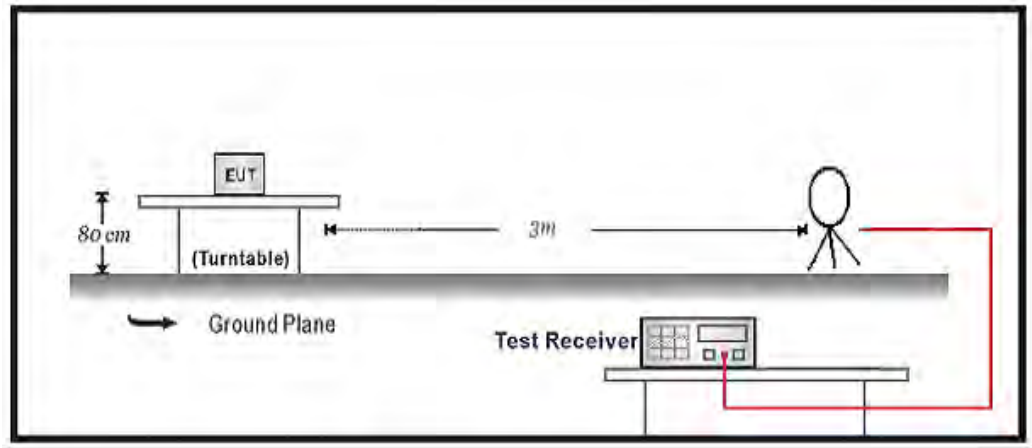
4.2	Emissions in non-restricted frequency bands	VERDICT: PASS

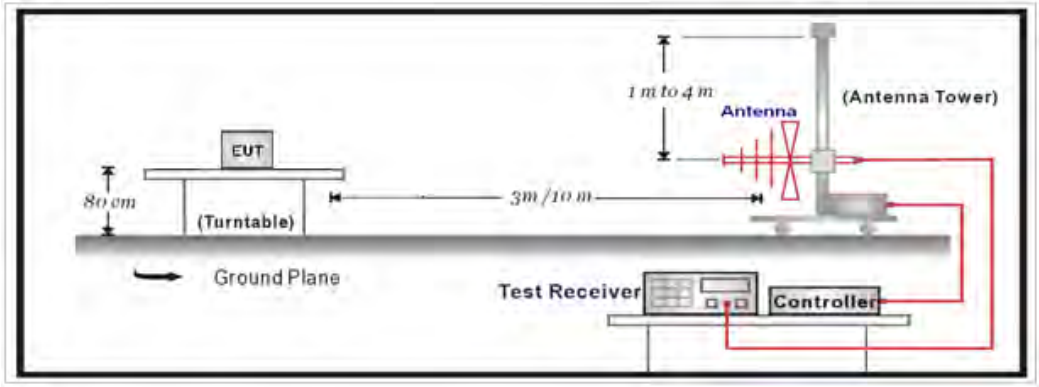
Emissions Limit 15.209(a)			
Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30(Note 1)
1.705 - 30	30	29.5	30(Note 1)
30 - 88	100	40	3(Note 2)
88 - 216	150	43.5	3(Note 2)
216 - 960	200	46	3(Note 2)
Above 960	500	54	3(Note 2)

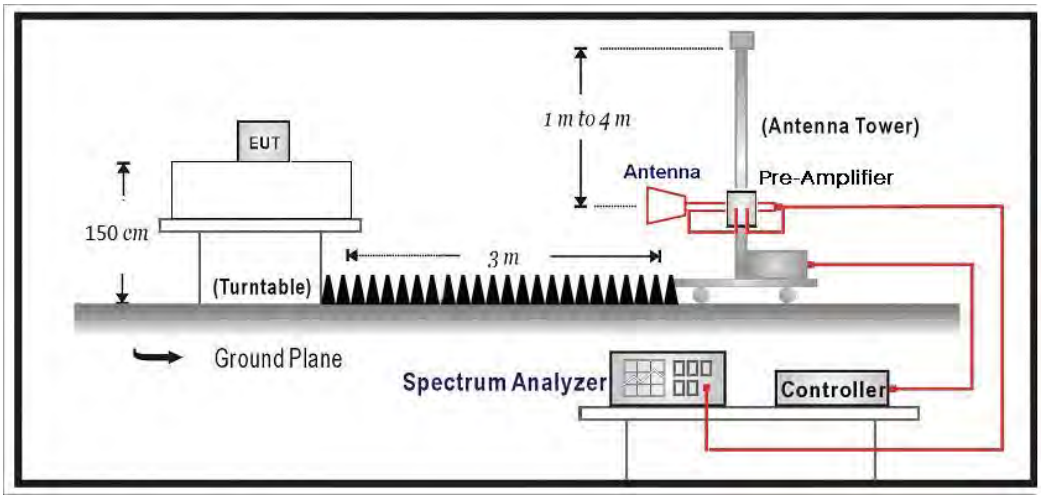
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

Test Configuration







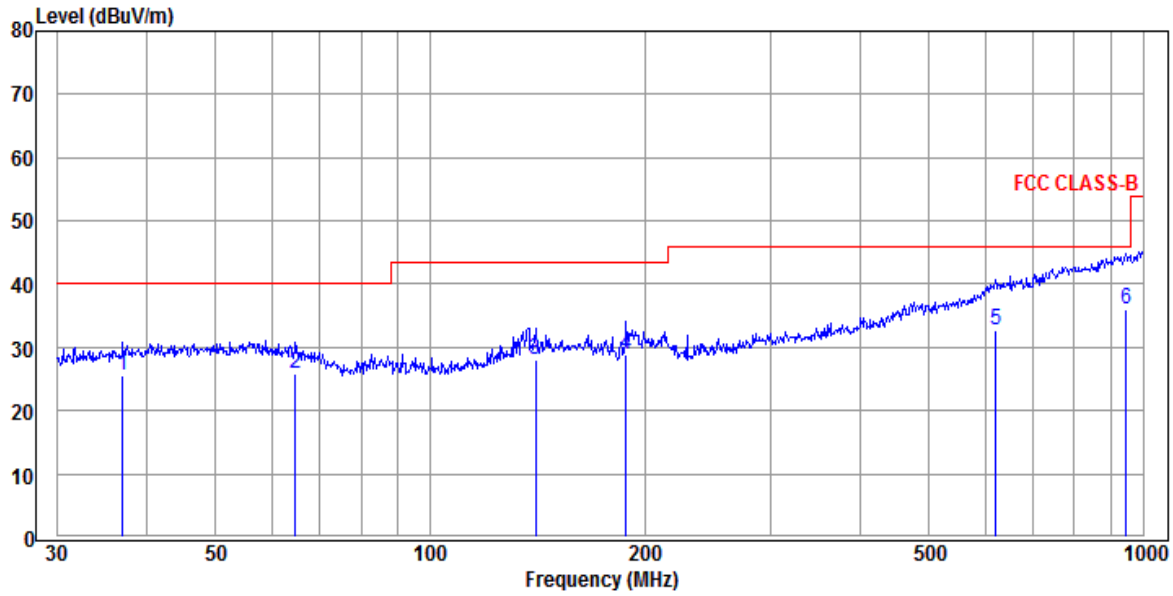
Performed measurements

Port under test	Enclosure port	
Test method applied	☐	Conducted measurement
	☒	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, 2	
Remark	1)The test frequency range, 9kHz~30MHz, 18GHz~26GHz, both of the worst case are at least 20dB below the limits, therefore no data appear in the report. 2)The EUT are tested in three orientations. The record is the worst orientation which refer to the Annex 3 for test setup photo(s).	

Results of 30 – 1000 MHz

Measurement data	
Operating mode / voltage / frequency used during the test	Mode 1 / 24 Vdc – worst case

Horizontal



Freq	Reading	C.F	Result	Limit	Margin	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
37.03	5.65	20.04	25.69	40.00	14.31	QP
64.66	6.20	19.64	25.84	40.00	14.16	QP
140.34	7.91	20.17	28.08	43.50	15.42	QP
188.41	10.47	18.49	28.96	43.50	14.54	QP
620.71	3.47	29.32	32.79	46.00	13.21	QP
945.44	2.12	33.78	35.90	46.00	10.10	QP

Margin=limit-result

Remarks:

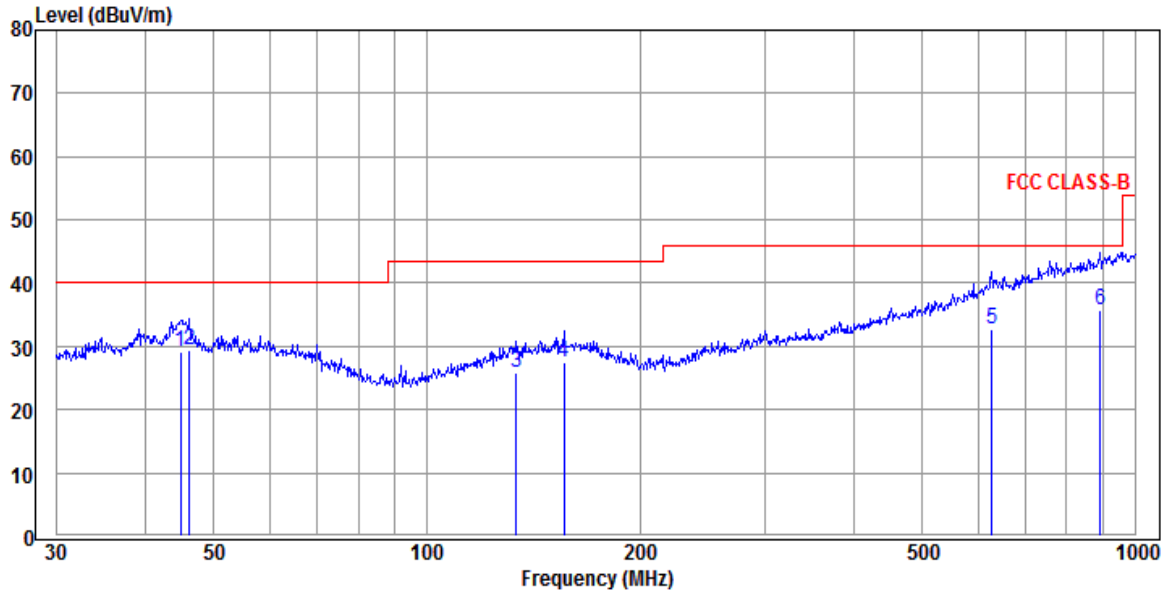
1) C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

2) Result = Reading + C.F (Correction Factor)

No other significant emissions were measured at the frequency range of interest employing the QP detector.

Measurement data	
Operating mode / voltage / frequency used during the test	Mode 1 / 24 Vdc – worst case

Vertical



Freq	Reading	C.F	Result	Limit	Margin	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
44.90	8.76	20.35	29.11	40.00	10.89	QP
46.18	8.93	20.37	29.30	40.00	10.70	QP
133.62	6.00	19.74	25.74	43.50	17.76	QP
155.91	6.54	20.82	27.36	43.50	16.14	QP
627.27	3.21	29.51	32.72	46.00	13.28	QP
893.86	2.48	33.21	35.69	46.00	10.31	QP

Margin=limit-result

Remarks:

1) C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

2) Result = Reading + C.F (Correction Factor)

No other significant emissions were measured at the frequency range of interest employing the QP detector.

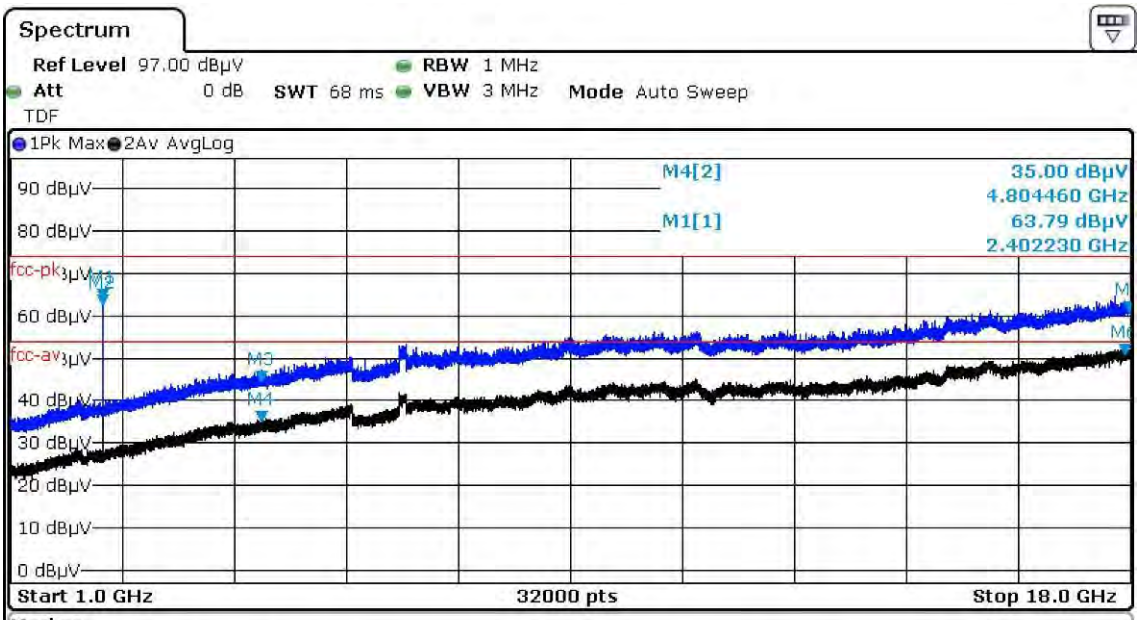
Remark	

Results of 1 – 18 GHz

Model	42949
Operation Mode	Mode 1 @2402 MHz, date rate: 125 KHz
Test voltage	24 Vdc

Results

Horizontal



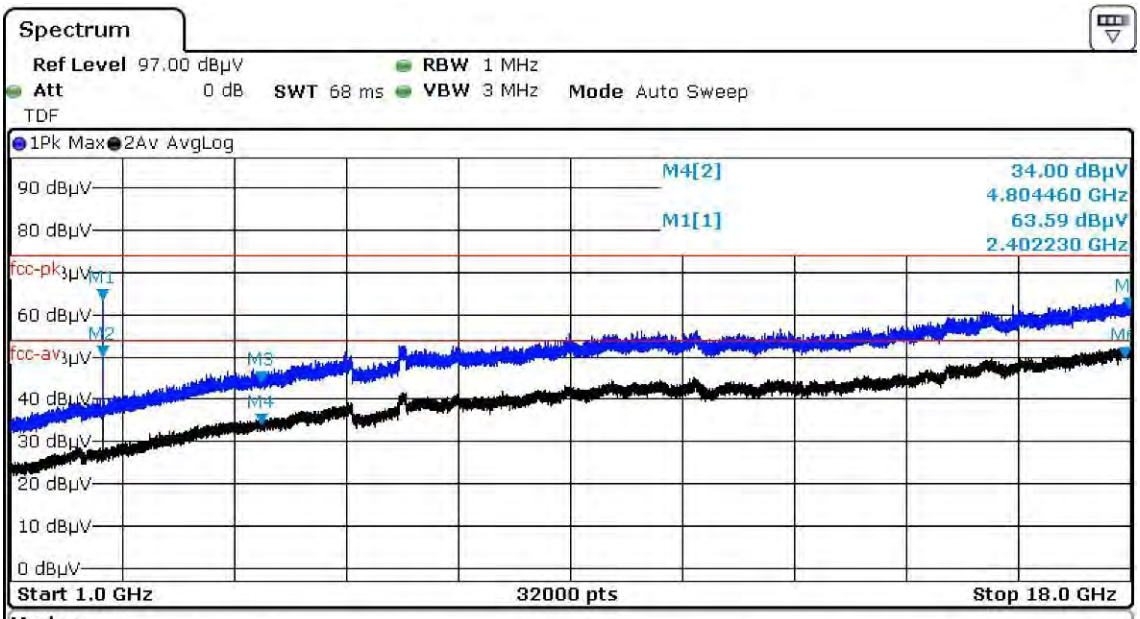
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40223 GHz	63.79 dBµV		
M2		2	2.40223 GHz	62.46 dBµV		
M3		1	4.80446 GHz	44.35 dBµV		
M4		2	4.80446 GHz	35.00 dBµV		
M5		1	17.98114 GHz	60.98 dBµV		
M6		2	17.9057 GHz	50.79 dBµV		

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40223 GHz	63.59 dBµV		
M2		2	2.40223 GHz	50.17 dBµV		
M3		1	4.80446 GHz	44.21 dBµV		
M4		2	4.80446 GHz	34.00 dBµV		
M5		1	17.98114 GHz	61.67 dBµV		
M6		2	17.9057 GHz	49.90 dBµV		

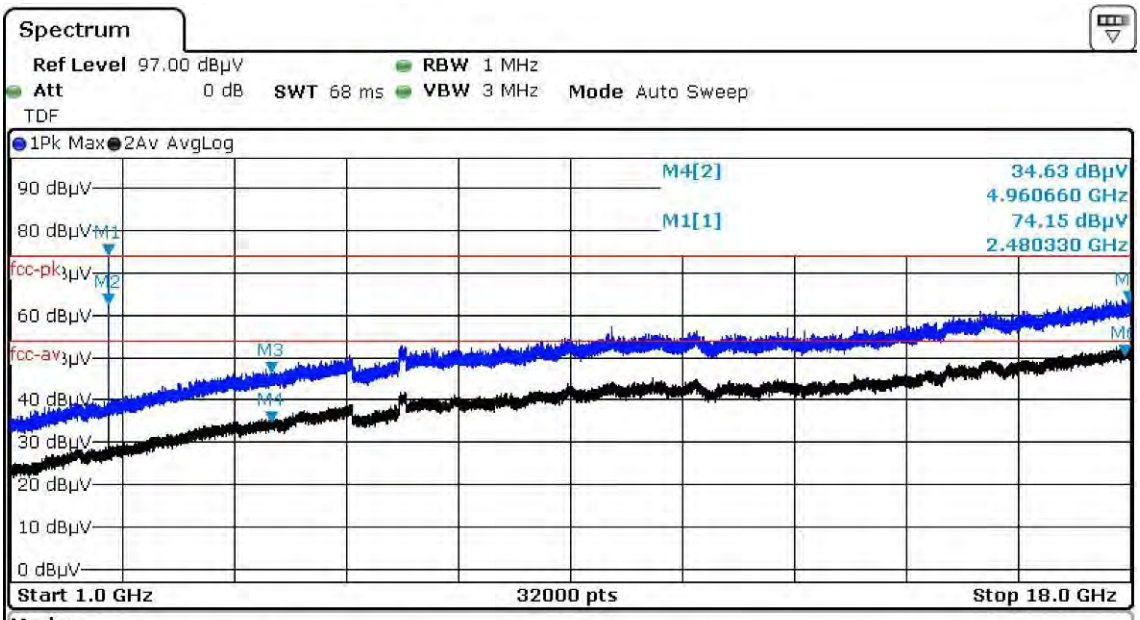
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 1 @2480 MHz, date rate: 125 KHz
Test voltage	24 Vdc

Results

Horizontal



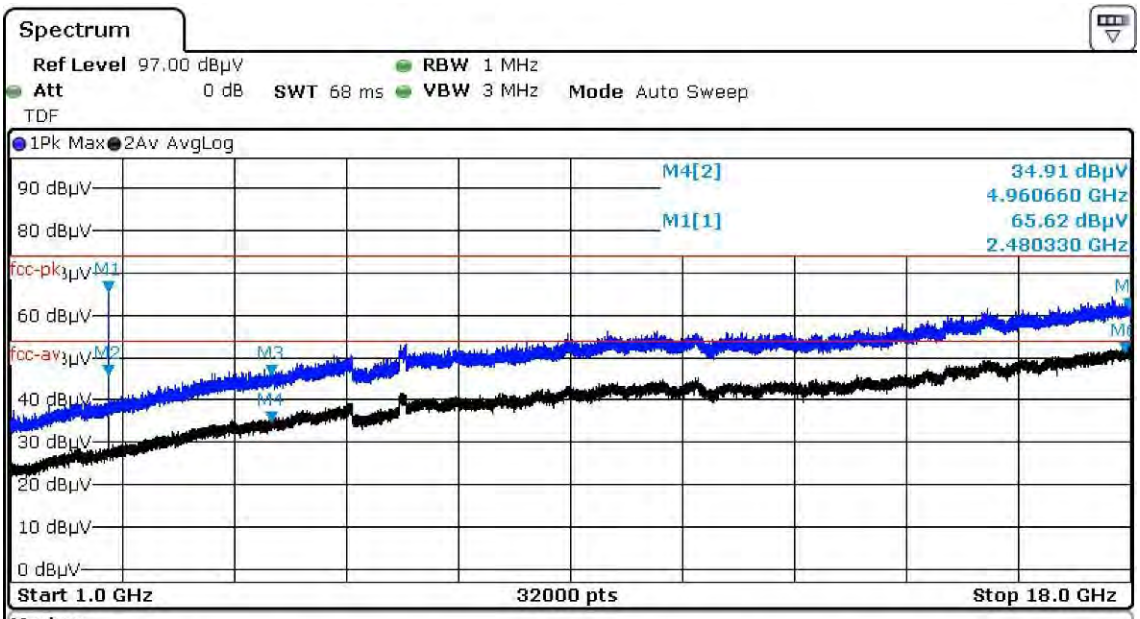
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48033 GHz	74.15 dBµV		
M2		2	2.48033 GHz	62.50 dBµV		
M3		1	4.96066 GHz	46.52 dBµV		
M4		2	4.96066 GHz	34.63 dBµV		
M5		1	17.98114 GHz	63.29 dBµV		
M6		2	17.9057 GHz	50.42 dBµV		

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48033 GHz	65.62 dBµV		
M2		2	2.48033 GHz	45.87 dBµV		
M3		1	4.96066 GHz	45.85 dBµV		
M4		2	4.96066 GHz	34.91 dBµV		
M5		1	17.98114 GHz	61.59 dBµV		
M6		2	17.9057 GHz	51.23 dBµV		

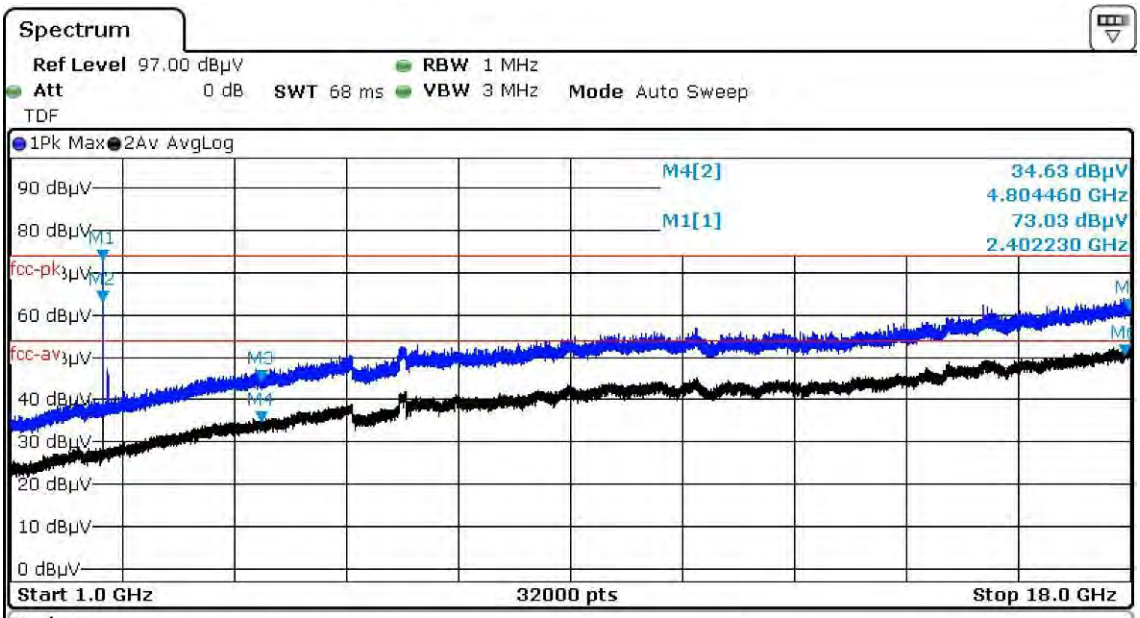
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 1 @2402 MHz, date rate: 500 KHz
Test voltage	24 Vdc

Results

Horizontal



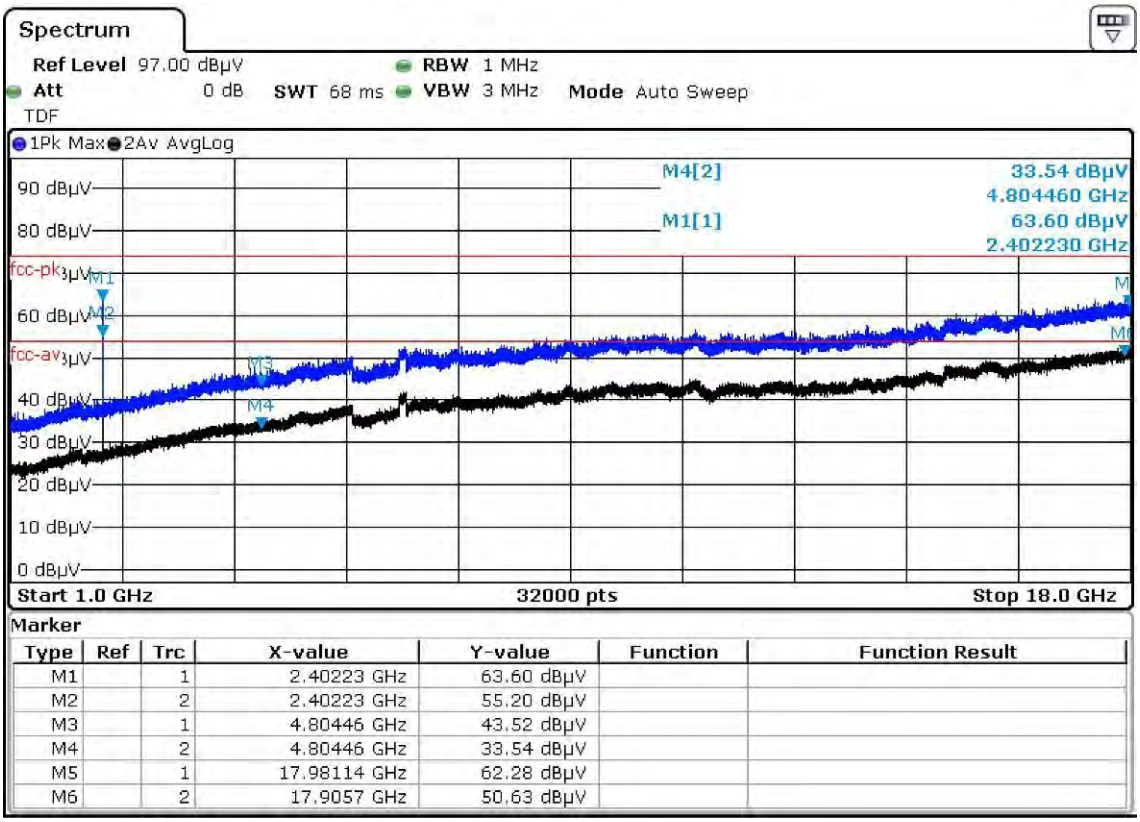
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40223 GHz	73.03 dBµV		
M2		2	2.40223 GHz	63.27 dBµV		
M3		1	4.80446 GHz	44.50 dBµV		
M4		2	4.80446 GHz	34.63 dBµV		
M5		1	17.98114 GHz	61.18 dBµV		
M6		2	17.9057 GHz	50.45 dBµV		

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40223 GHz	63.60 dBµV		
M2		2	2.40223 GHz	55.20 dBµV		
M3		1	4.80446 GHz	43.52 dBµV		
M4		2	4.80446 GHz	33.54 dBµV		
M5		1	17.98114 GHz	62.28 dBµV		
M6		2	17.9057 GHz	50.63 dBµV		

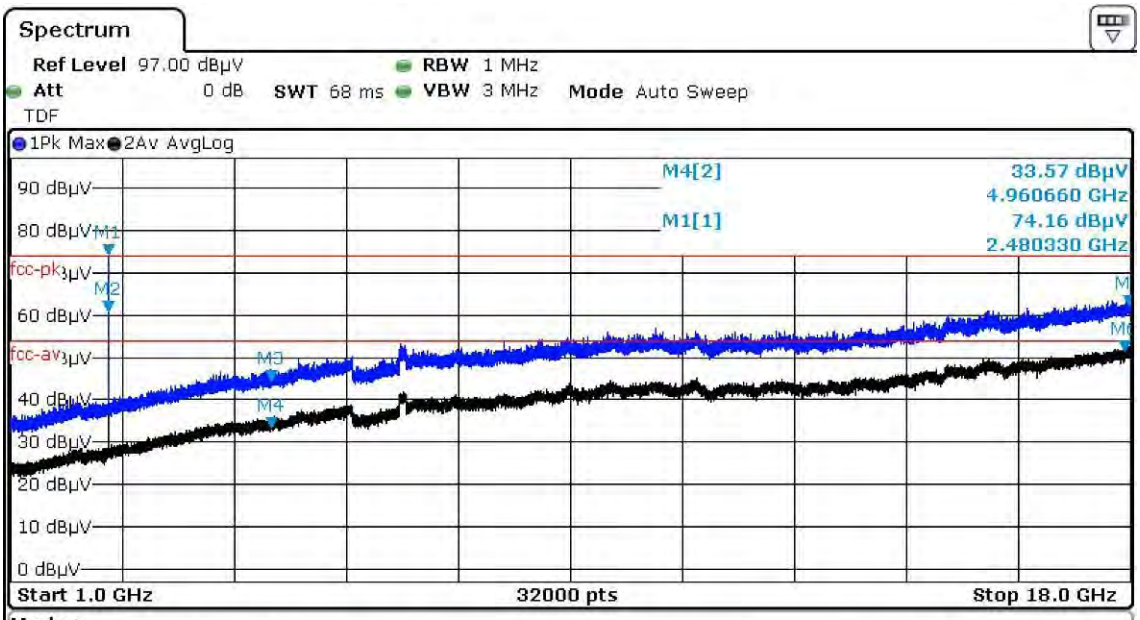
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 1 @2480 MHz, date rate: 500 KHz
Test voltage	24 Vdc

Results

Horizontal



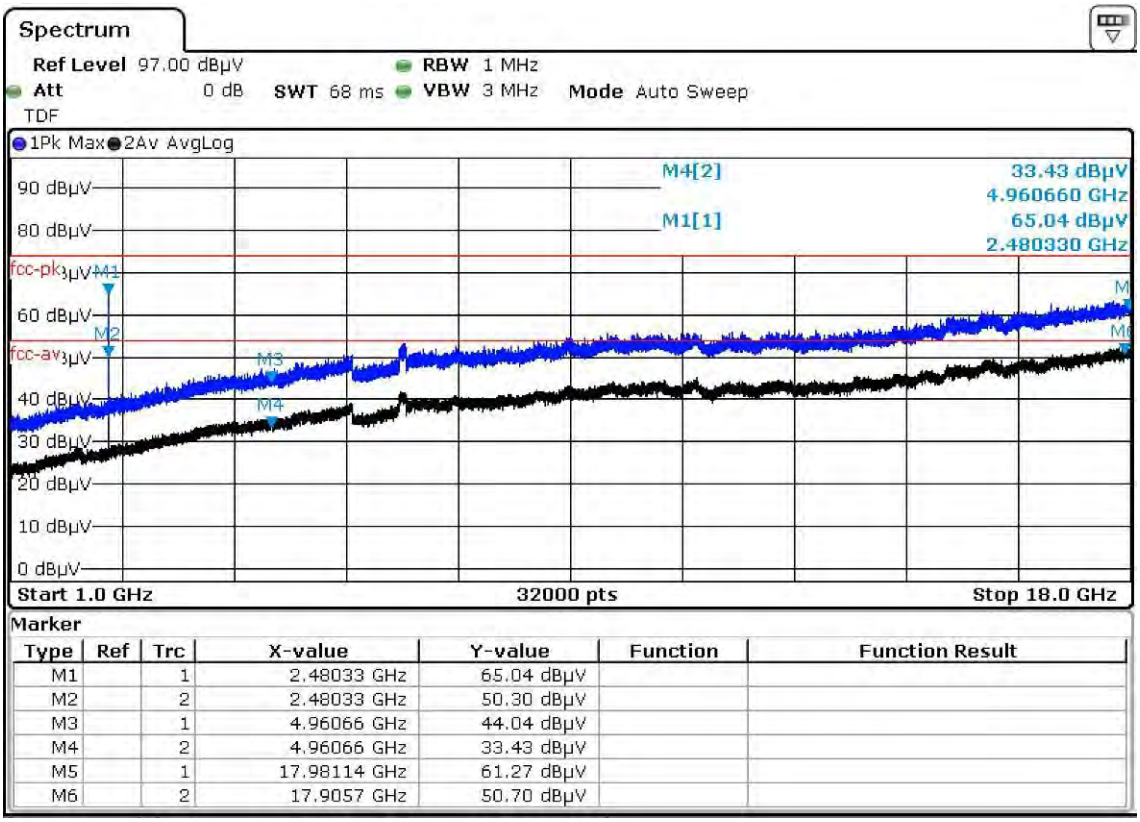
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48033 GHz	74.16 dBµV		
M2		2	2.48033 GHz	61.04 dBµV		
M3		1	4.96066 GHz	44.48 dBµV		
M4		2	4.96066 GHz	33.57 dBµV		
M5		1	17.98114 GHz	62.28 dBµV		
M6		2	17.9057 GHz	51.48 dBµV		

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48033 GHz	65.04 dBµV		
M2		2	2.48033 GHz	50.30 dBµV		
M3		1	4.96066 GHz	44.04 dBµV		
M4		2	4.96066 GHz	33.43 dBµV		
M5		1	17.98114 GHz	61.27 dBµV		
M6		2	17.9057 GHz	50.70 dBµV		

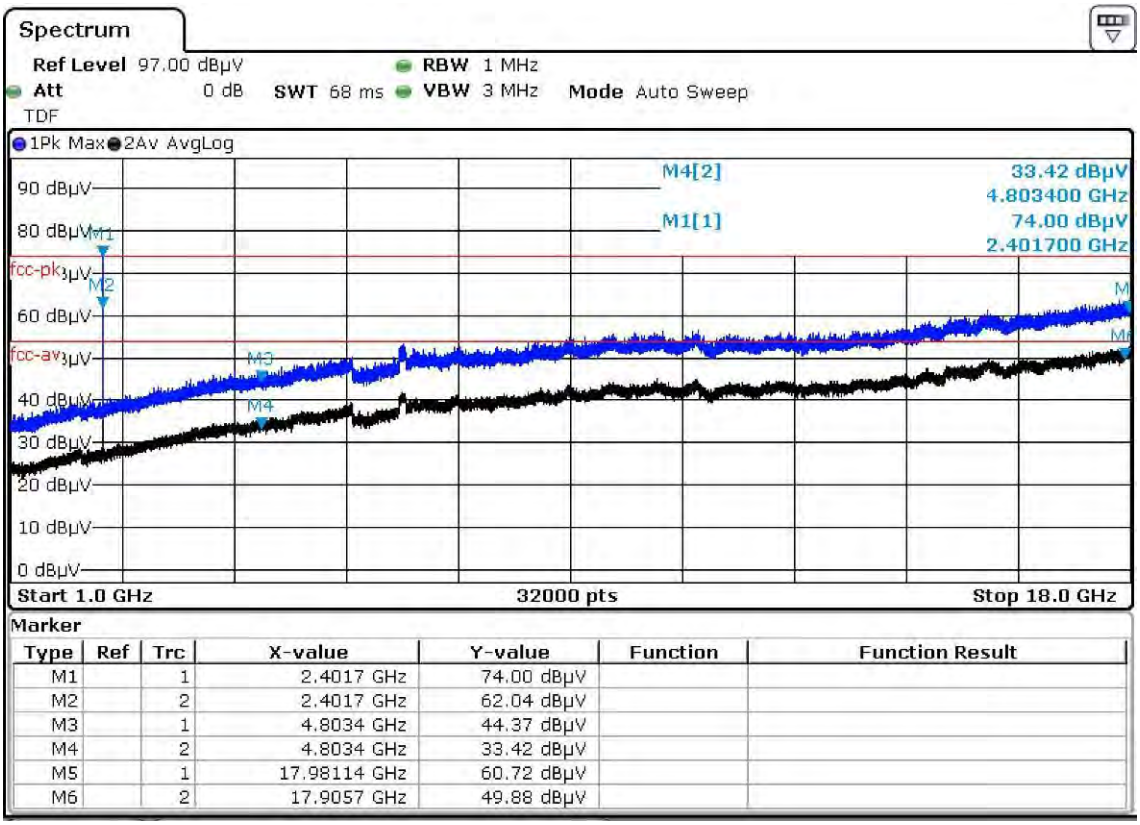
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 1 @2402 MHz, date rate: 1 MHz
Test voltage	24 Vdc

Results

Horizontal



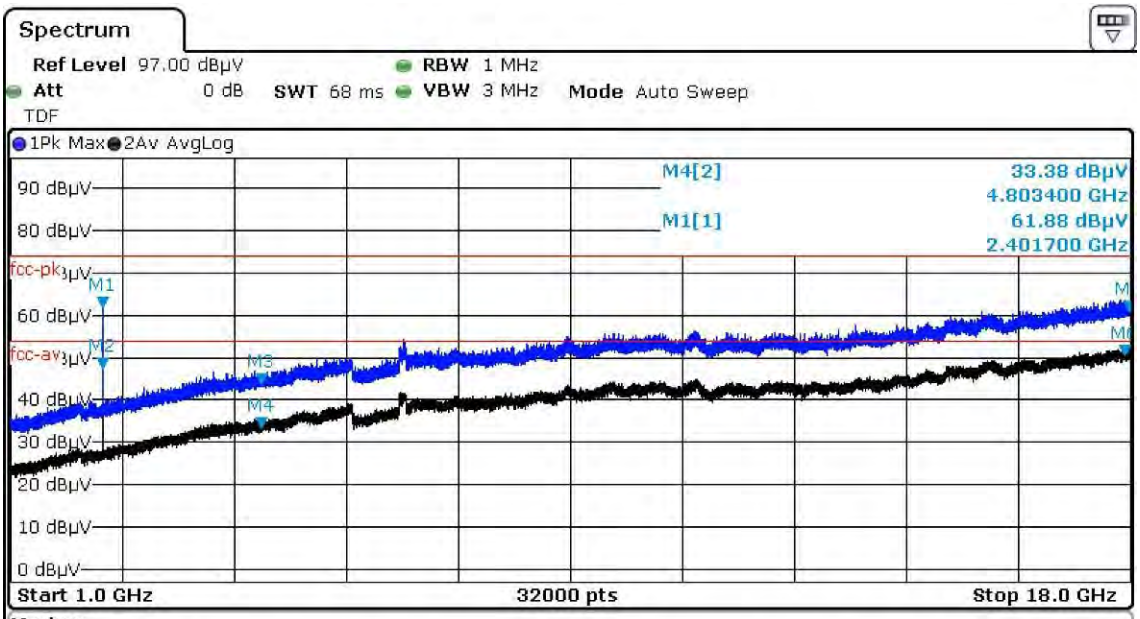
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4017 GHz	74.00 dBµV		
M2		2	2.4017 GHz	62.04 dBµV		
M3		1	4.8034 GHz	44.37 dBµV		
M4		2	4.8034 GHz	33.42 dBµV		
M5		1	17.98114 GHz	60.72 dBµV		
M6		2	17.9057 GHz	49.88 dBµV		

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4017 GHz	61.88 dBµV		
M2		2	2.4017 GHz	47.48 dBµV		
M3		1	4.8034 GHz	43.97 dBµV		
M4		2	4.8034 GHz	33.38 dBµV		
M5		1	17.98114 GHz	60.92 dBµV		
M6		2	17.9057 GHz	50.48 dBµV		

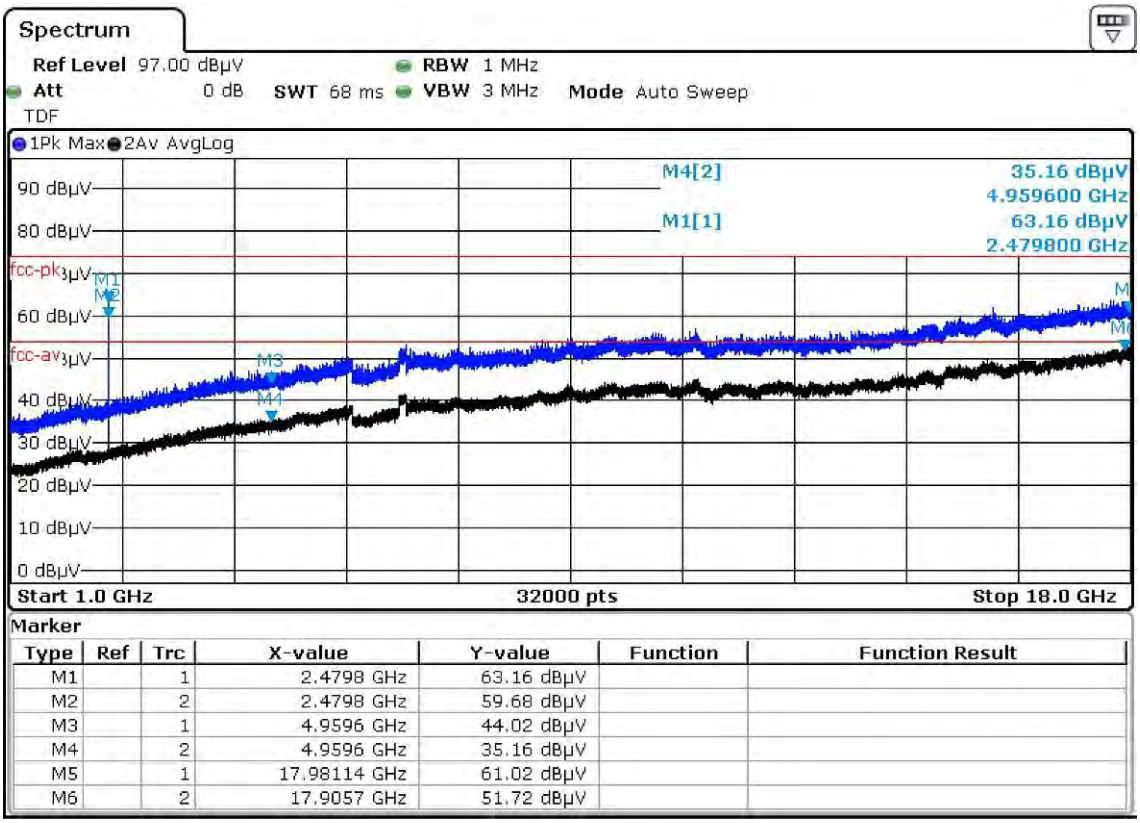
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 1 @2480 MHz, date rate: 1 MHz
Test voltage	24 Vdc

Results

Horizontal



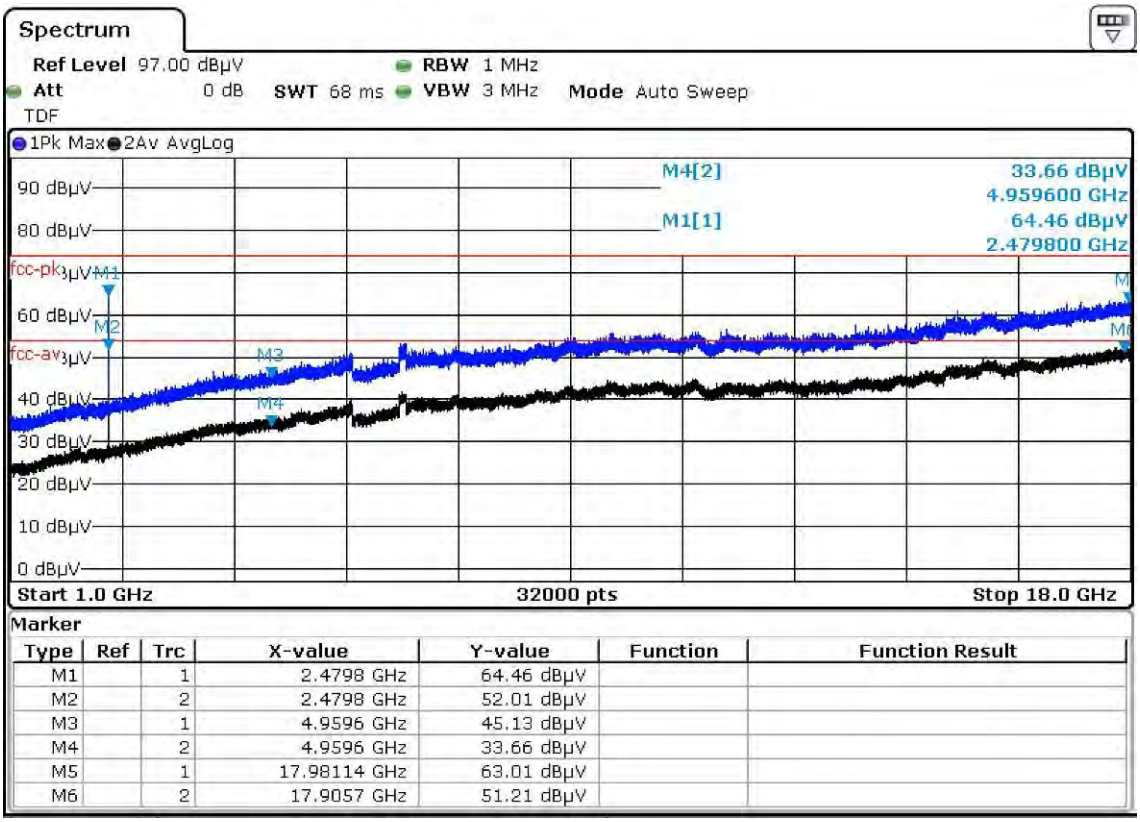
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4798 GHz	63.16 dBµV		
M2		2	2.4798 GHz	59.68 dBµV		
M3		1	4.9596 GHz	44.02 dBµV		
M4		2	4.9596 GHz	35.16 dBµV		
M5		1	17.98114 GHz	61.02 dBµV		
M6		2	17.9057 GHz	51.72 dBµV		

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4798 GHz	64.46 dBµV		
M2		2	2.4798 GHz	52.01 dBµV		
M3		1	4.9596 GHz	45.13 dBµV		
M4		2	4.9596 GHz	33.66 dBµV		
M5		1	17.98114 GHz	63.01 dBµV		
M6		2	17.9057 GHz	51.21 dBµV		

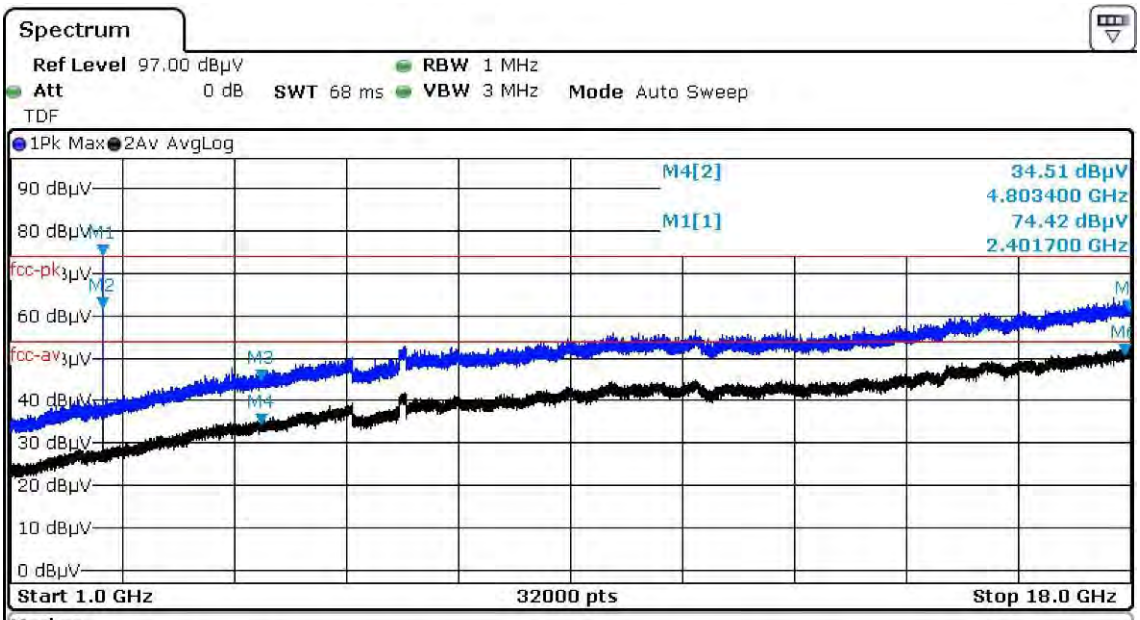
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 1 @2402 MHz, date rate: 2 MHz
Test voltage	24 Vdc

Results

Horizontal



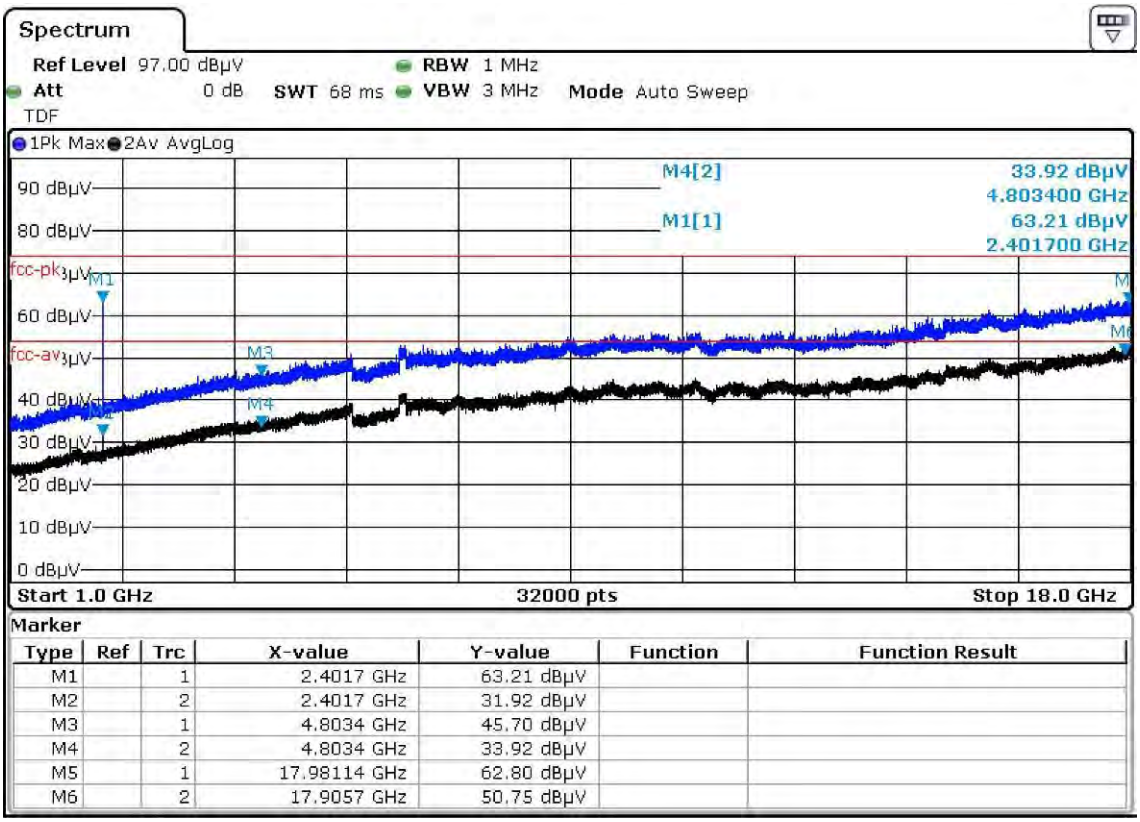
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4017 GHz	74.42 dBµV		
M2		2	2.4017 GHz	61.89 dBµV		
M3		1	4.8034 GHz	44.69 dBµV		
M4		2	4.8034 GHz	34.51 dBµV		
M5		1	17.98114 GHz	61.28 dBµV		
M6		2	17.9057 GHz	50.85 dBµV		

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4017 GHz	63.21 dBµV		
M2		2	2.4017 GHz	31.92 dBµV		
M3		1	4.8034 GHz	45.70 dBµV		
M4		2	4.8034 GHz	33.92 dBµV		
M5		1	17.98114 GHz	62.80 dBµV		
M6		2	17.9057 GHz	50.75 dBµV		

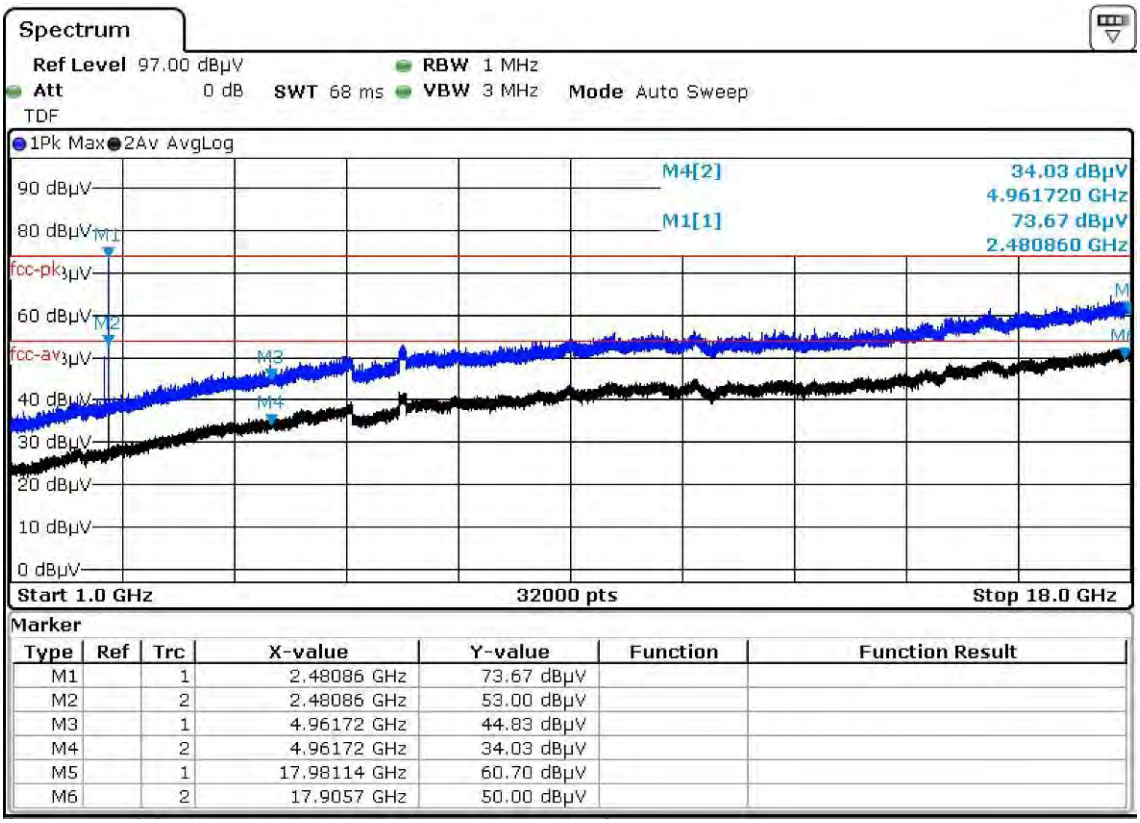
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 1 @2480 MHz, date rate: 2 MHz
Test voltage	24 Vdc

Results

Horizontal



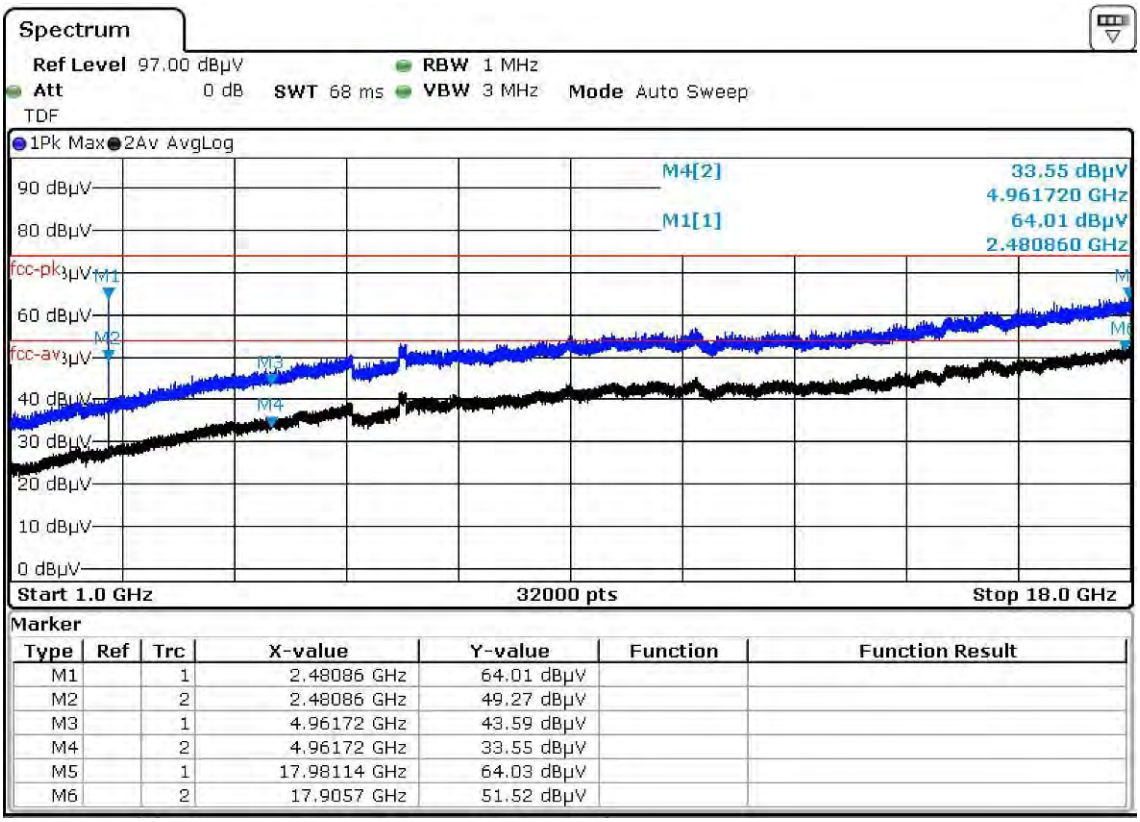
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48086 GHz	73.67 dBµV		
M2		2	2.48086 GHz	53.00 dBµV		
M3		1	4.96172 GHz	44.83 dBµV		
M4		2	4.96172 GHz	34.03 dBµV		
M5		1	17.98114 GHz	60.70 dBµV		
M6		2	17.9057 GHz	50.00 dBµV		

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48086 GHz	64.01 dBµV		
M2		2	2.48086 GHz	49.27 dBµV		
M3		1	4.96172 GHz	43.59 dBµV		
M4		2	4.96172 GHz	33.55 dBµV		
M5		1	17.98114 GHz	64.03 dBµV		
M6		2	17.9057 GHz	51.52 dBµV		

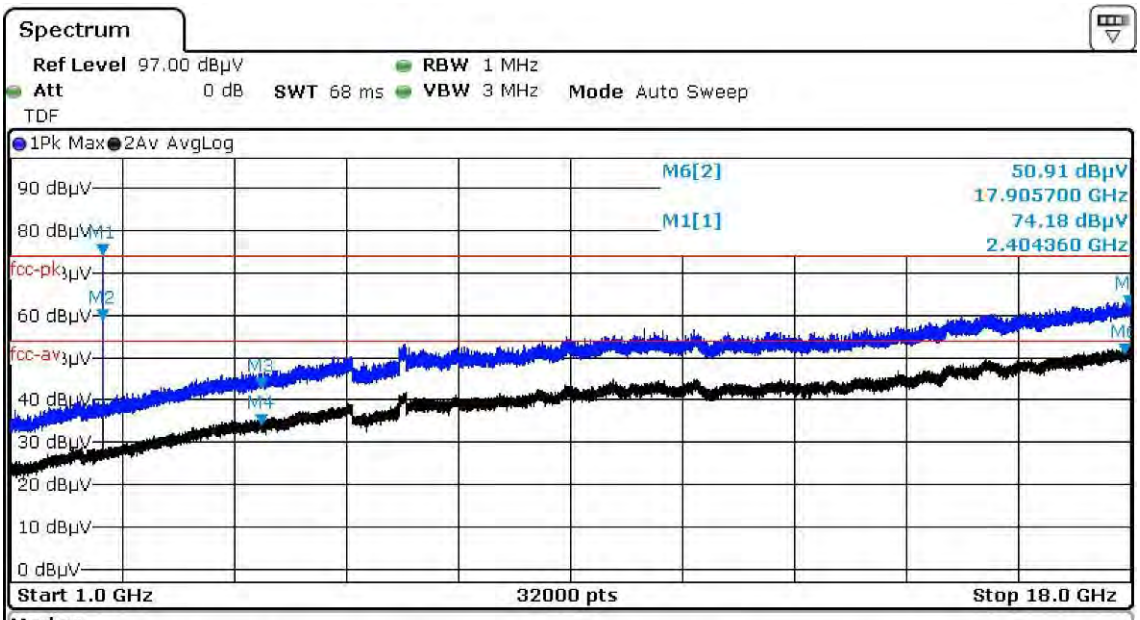
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 2 @2405 MHz
Test voltage	24 Vdc

Results

Horizontal



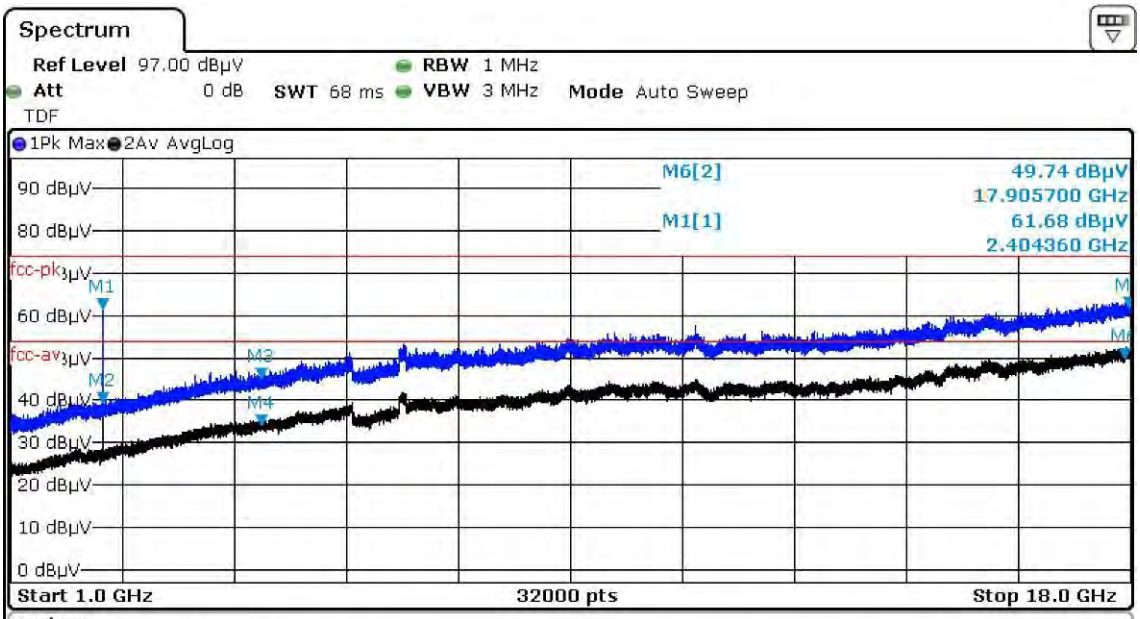
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40436 GHz	74.18 dBµV		
M2		2	2.40436 GHz	59.01 dBµV		
M3		1	4.80872 GHz	42.88 dBµV		
M4		2	4.80872 GHz	34.27 dBµV		
M5		1	17.98114 GHz	62.38 dBµV		
M6		2	17.9057 GHz	50.91 dBµV		

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40436 GHz	61.68 dBµV		
M2		2	2.40436 GHz	39.35 dBµV		
M3		1	4.80872 GHz	45.06 dBµV		
M4		2	4.80872 GHz	34.06 dBµV		
M5		1	17.98114 GHz	62.05 dBµV		
M6		2	17.9057 GHz	49.74 dBµV		

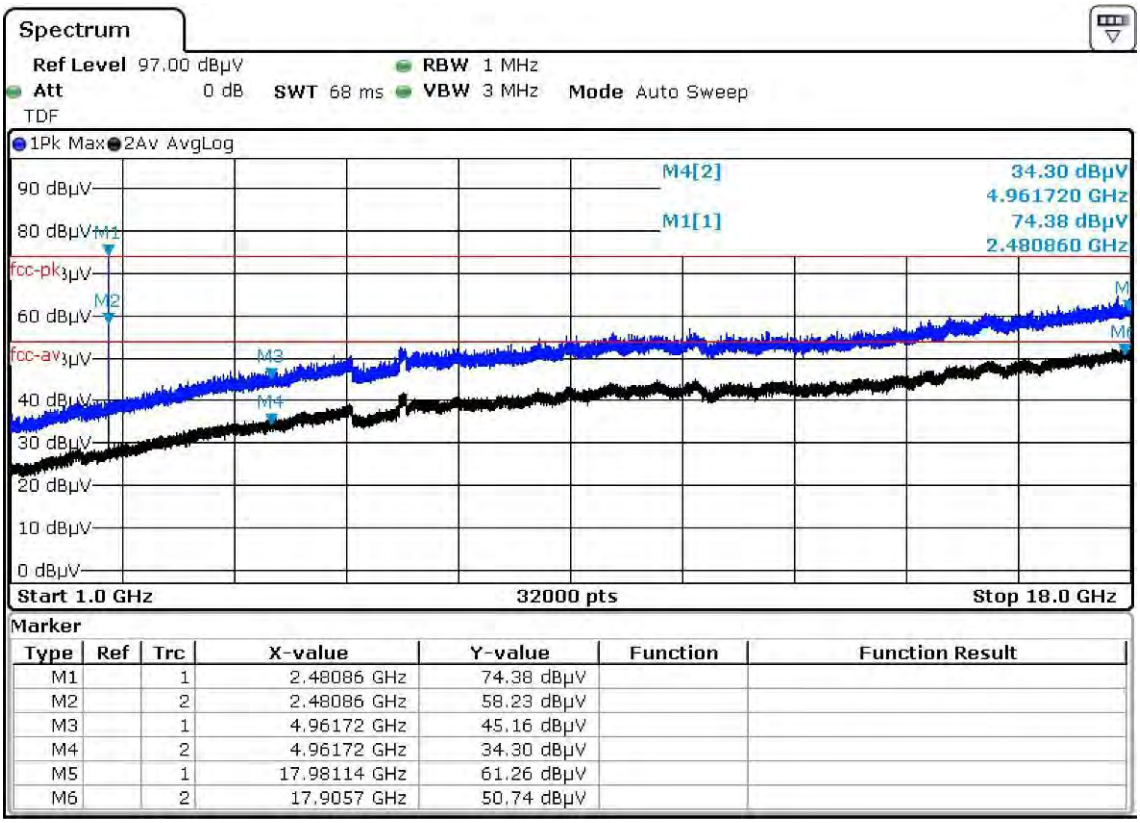
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 2 @2480 MHz
Test voltage	24 Vdc

Results

Horizontal



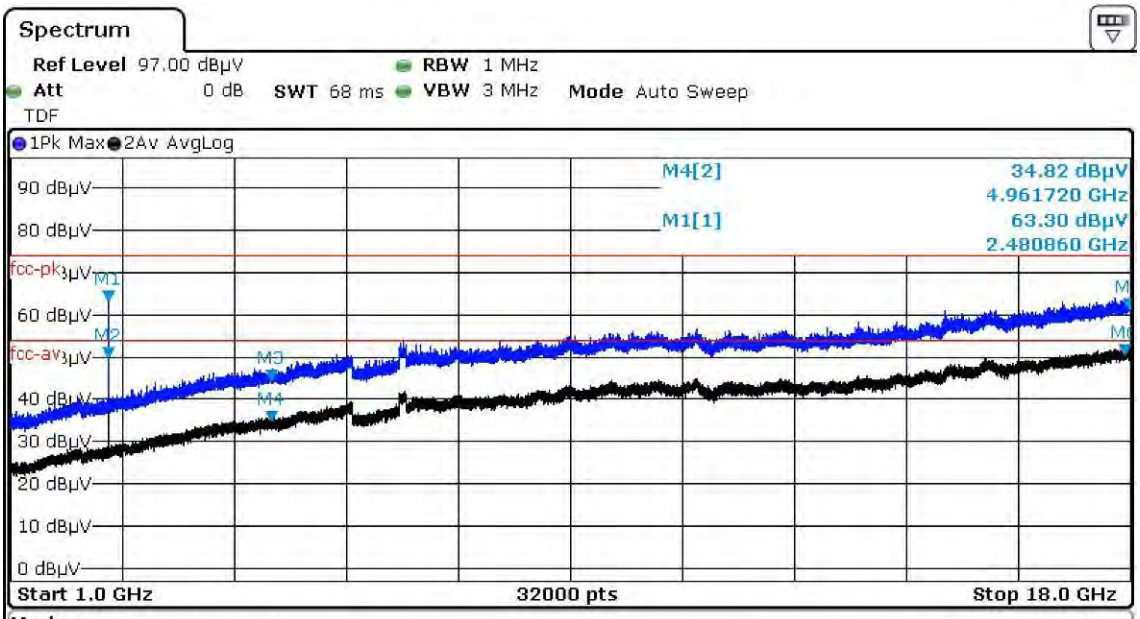
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48086 GHz	74.38 dBµV		
M2		2	2.48086 GHz	58.23 dBµV		
M3		1	4.96172 GHz	45.16 dBµV		
M4		2	4.96172 GHz	34.30 dBµV		
M5		1	17.98114 GHz	61.26 dBµV		
M6		2	17.9057 GHz	50.74 dBµV		

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48086 GHz	63.30 dBµV		
M2		2	2.48086 GHz	49.72 dBµV		
M3		1	4.96172 GHz	44.66 dBµV		
M4		2	4.96172 GHz	34.82 dBµV		
M5		1	17.98114 GHz	61.38 dBµV		
M6		2	17.9057 GHz	50.47 dBµV		

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

4.3	Emissions in restricted frequency bands	VERDICT: PASS

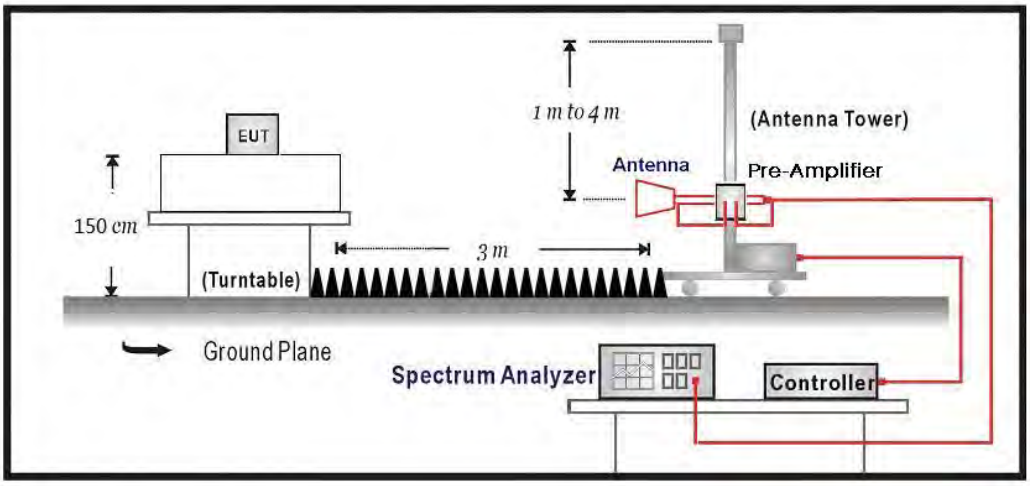
Restricted Bands of operation of FCC			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975–12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675–12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			
Restricted Bands of operation for IC			
0.090 - 0.110	13.36 - 13.41	960 - 1427	9.0 - 9.2
0.495 - 0.505	16.42 - 16.423	1435 - 1626.5	9.3 - 9.5
2.1735 - 2.1905	16.69475 - 16.69525	1645.5 - 1646.5	10.6 - 12.7
3.020 - 3.026	16.80425 - 16.80475	1660 - 1710	13.25 - 13.4
4.125 - 4.128	25.5 - 25.67	1718.8 - 1722.2	14.47 - 14.5
4.17725 - 4.17775	37.5 - 38.25	2200 - 2300	15.35 - 16.2
4.20725 - 4.20775	73 - 74.6	2310 - 2390	17.7 - 21.4
5.677 - 5.683	74.8 - 75.2	2483.5 - 2500	22.01 - 23.12
6.215 - 6.218	108 - 138	2655 - 2900	23.6 - 24.0
6.26775 - 6.26825	149.9 - 150.05	3260 - 3267	31.2 - 31.8
6.31175 - 6.31225	156.52475 - 156.52525	3332 - 3339	36.43 - 36.5
8.291 - 8.294	156.7 - 156.9	3345.8 - 3358	Above 38.6
8.362 - 8.366	162.0125 - 167.17	3500 - 4400	
8.37625 - 8.38675	167.72 - 173.2	4500 - 5150	
8.41425 - 8.41475	240 - 285	5350 - 5460	
12.29 - 12.293	322 - 335.4	7250 - 7750	
12.51975 - 12.52025	399.9 - 410	8025 - 8500	
12.57675 - 12.57725	608 - 614	--	

Restricted Band Emissions Limit			
Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30(Note 1)
1.705 - 30	30	29.5	30(Note 1)
30 - 88	100	40	3(Note 2)
88 - 216	150	43.5	3(Note 2)
216 - 960	200	46	3(Note 2)
Above 960	500	54	3(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

Test Configuration



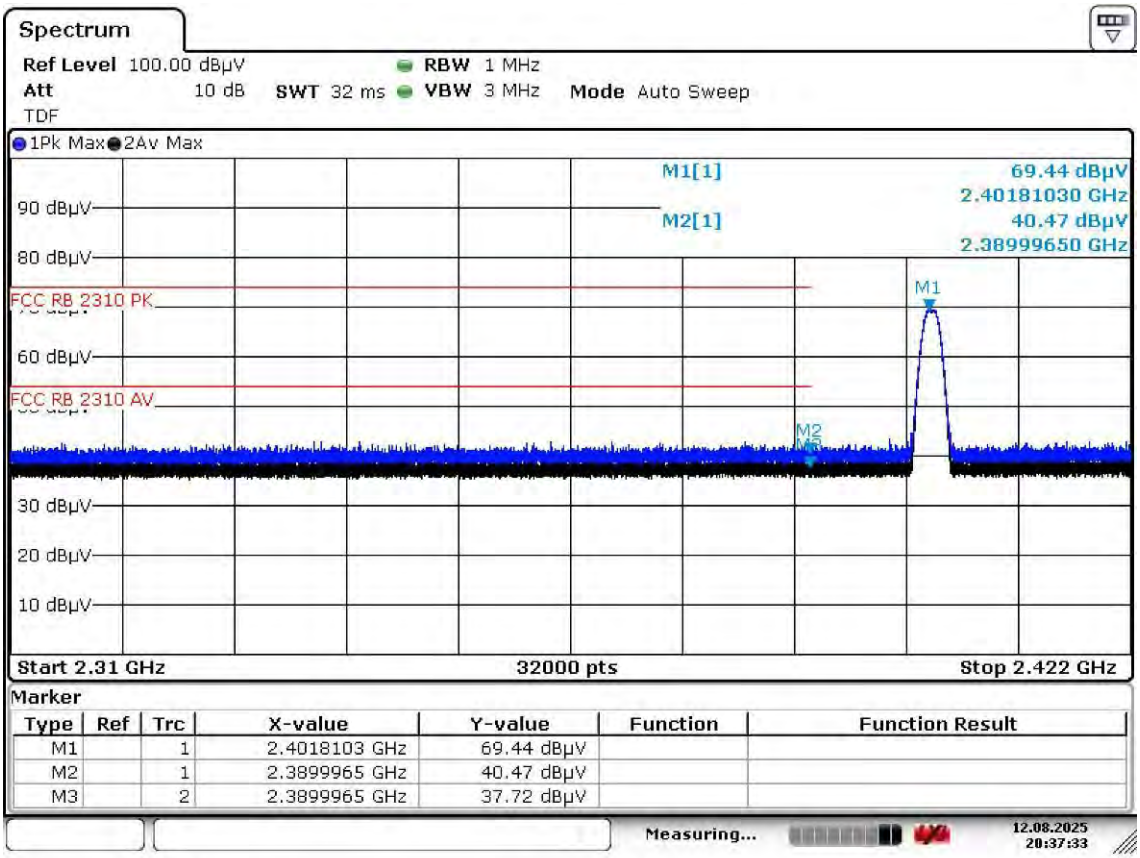
Performed measurements

Port under test	Enclosure port	
Test method applied	☐	Conducted measurement
	☒	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, 2	
Remark	---	

Model	42949
Operation Mode	Mode 1 @2402 MHz, date rate: 125 KHz
Test voltage	24 Vdc

Results

Horizontal

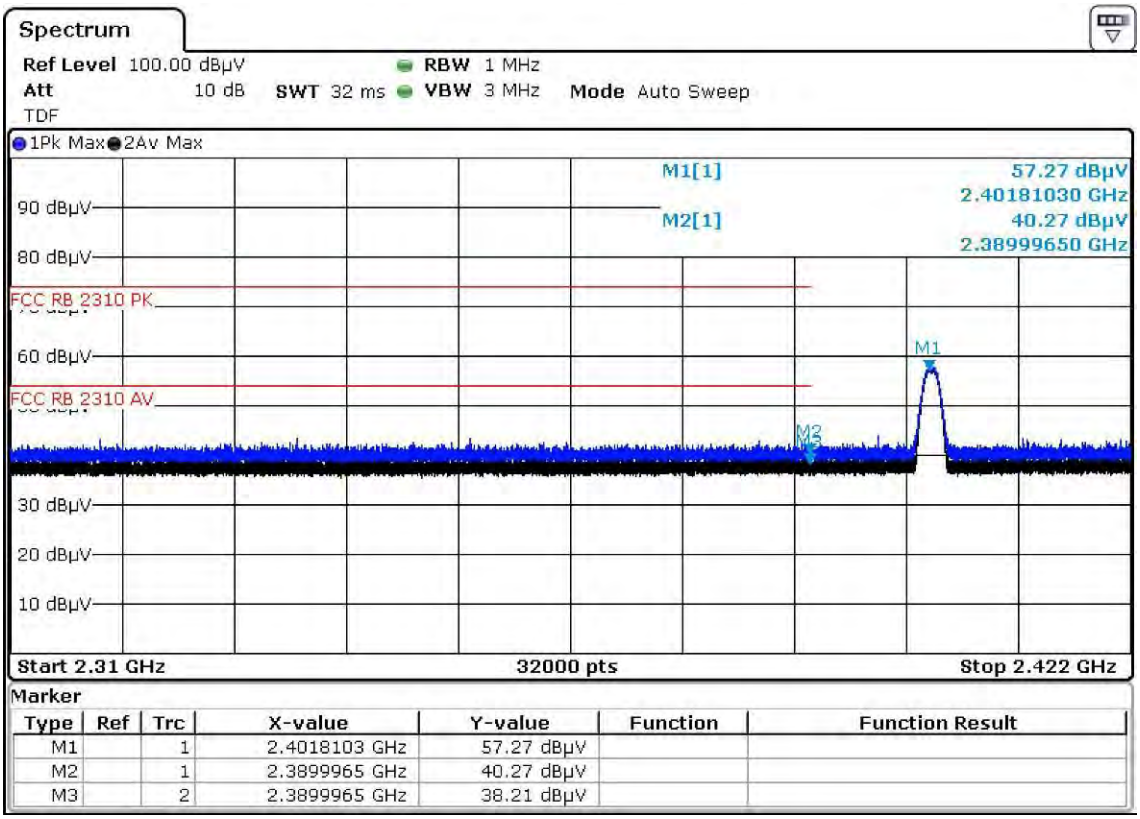


Date: 12.AUG.2025 20:37:33

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



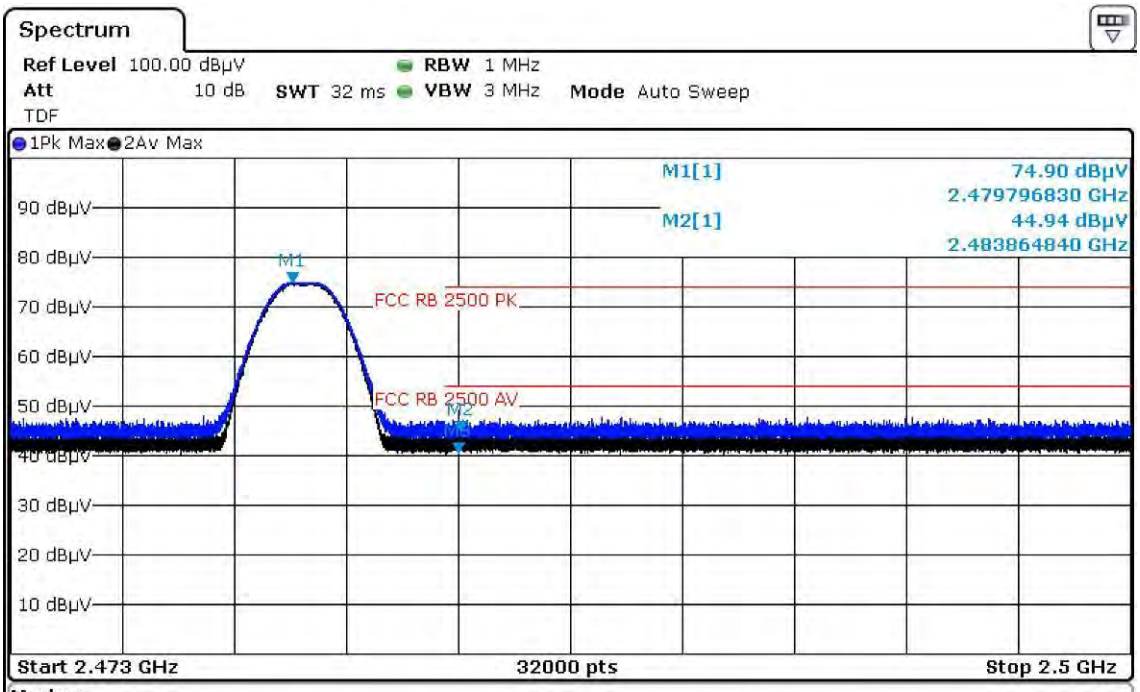
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 1 @2480 MHz, date rate: 125 KHz
Test voltage	24 Vdc

Results

Horizontal



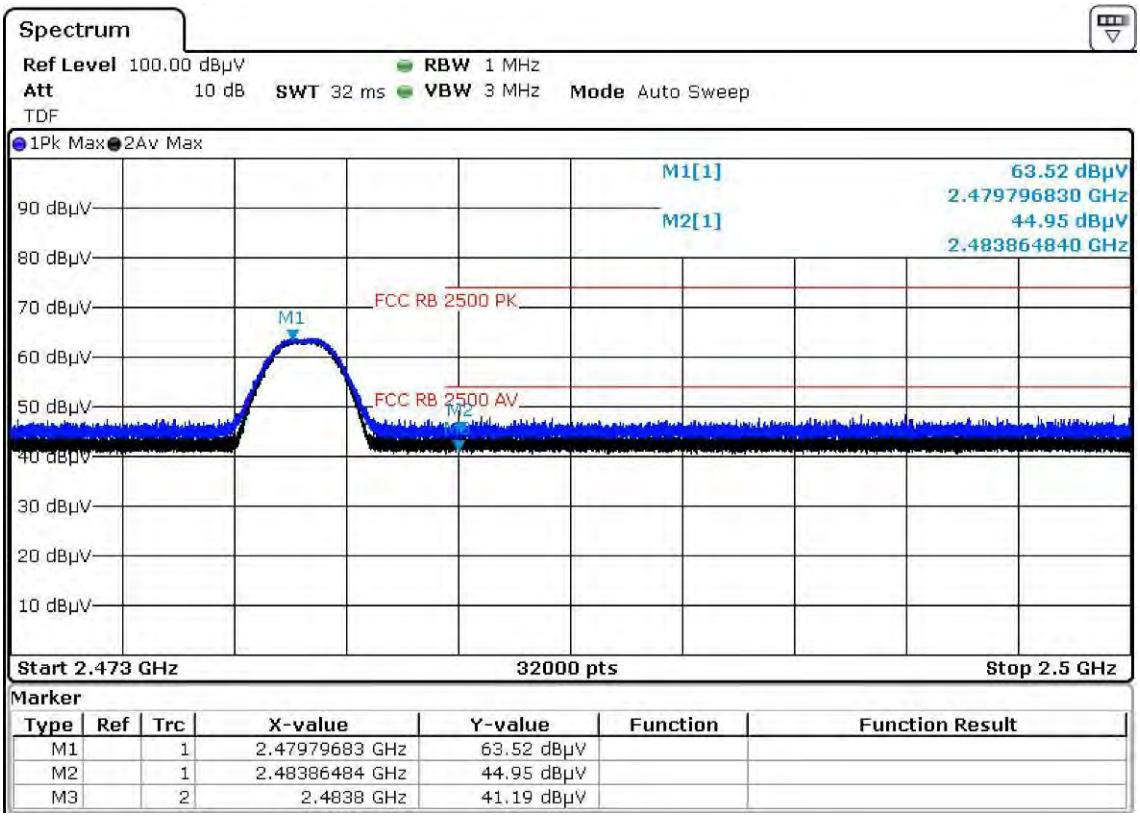
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47979683 GHz	74.90 dBµV		
M2		1	2.48386484 GHz	44.94 dBµV		
M3		2	2.4838 GHz	40.59 dBµV		

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47979683 GHz	63.52 dBµV		
M2		1	2.48386484 GHz	44.95 dBµV		
M3		2	2.4838 GHz	41.19 dBµV		

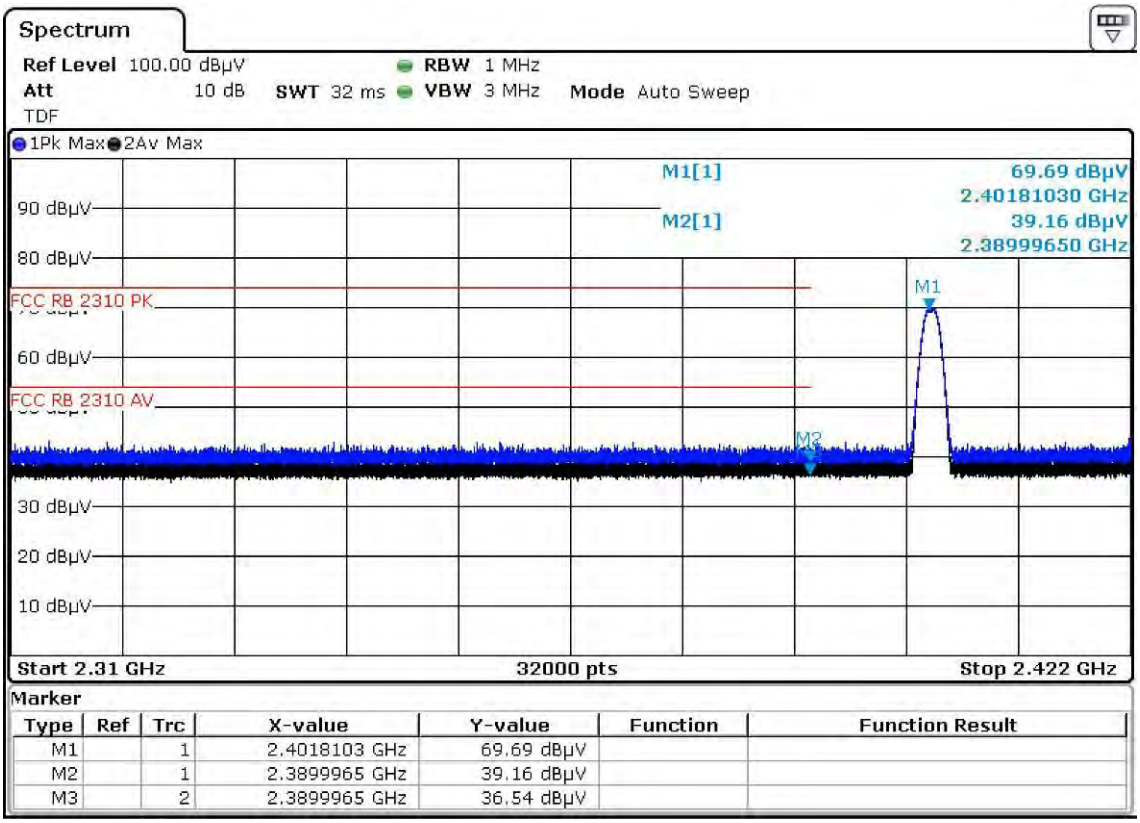
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 1 @2402 MHz, date rate: 500 KHz
Test voltage	24 Vdc

Results

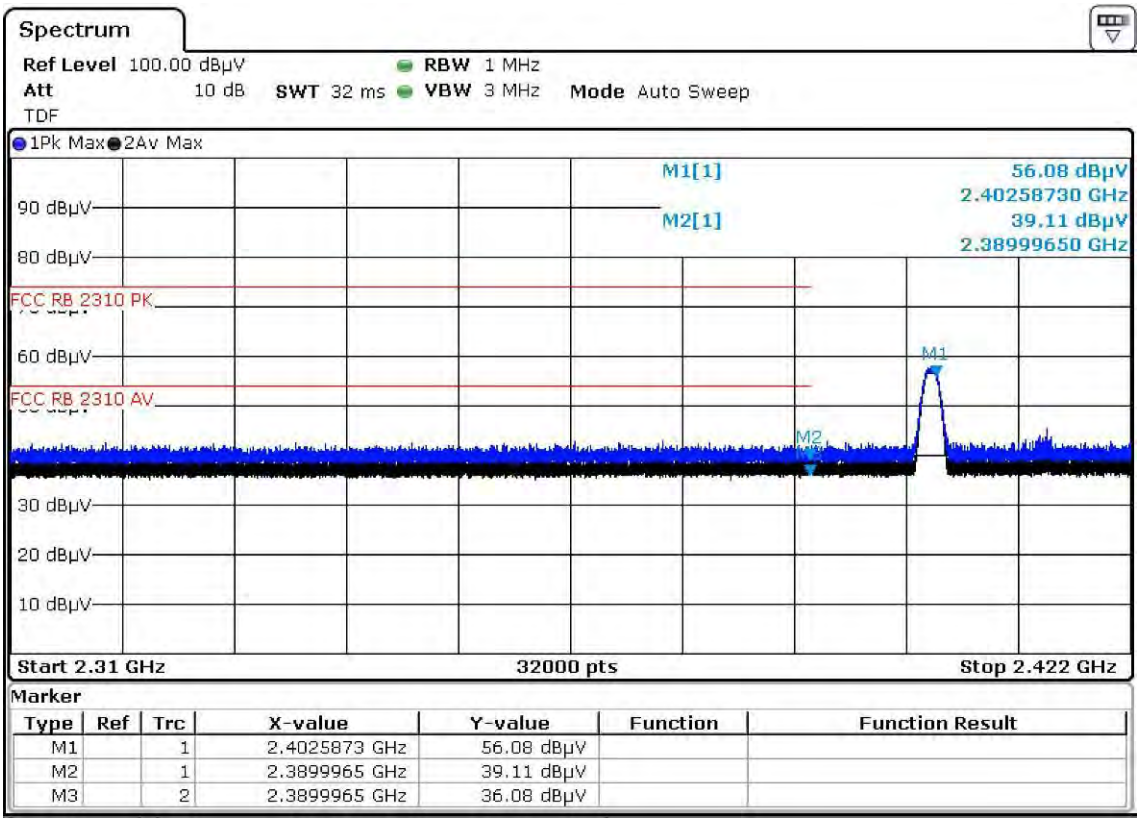
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



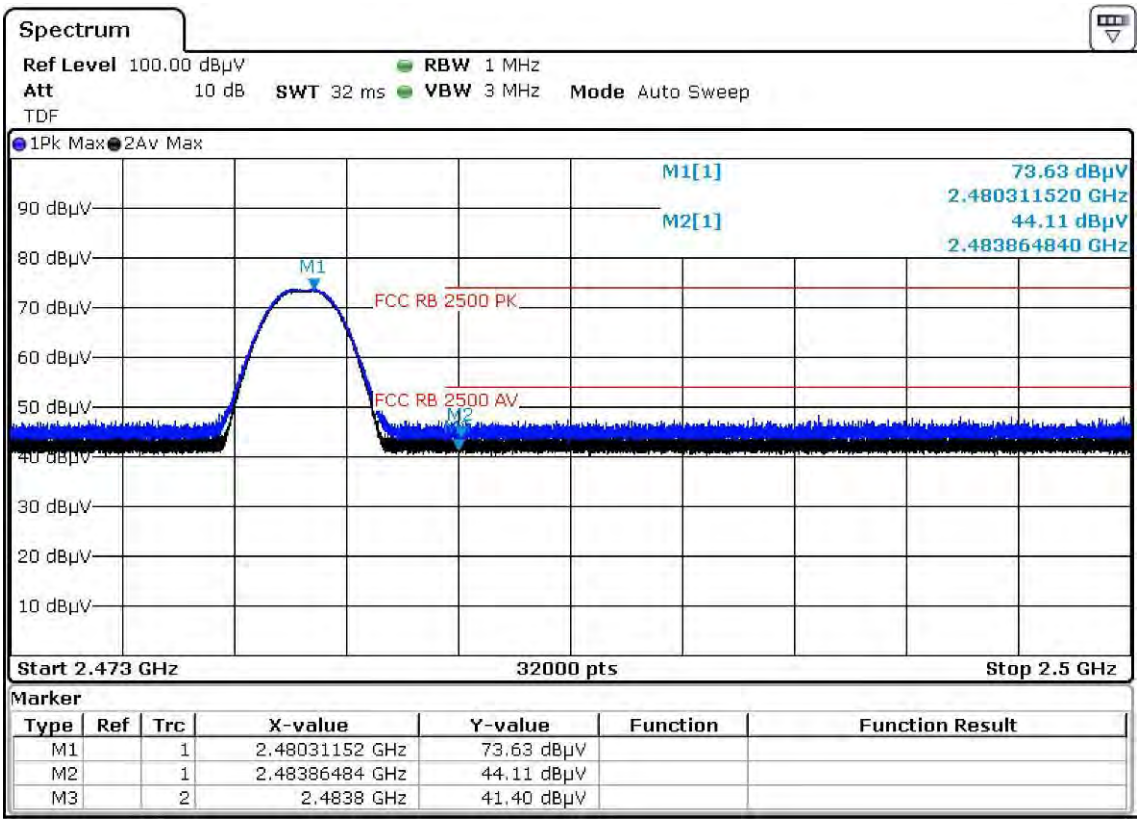
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 1 @2480 MHz, date rate: 500 KHz
Test voltage	24 Vdc

Results

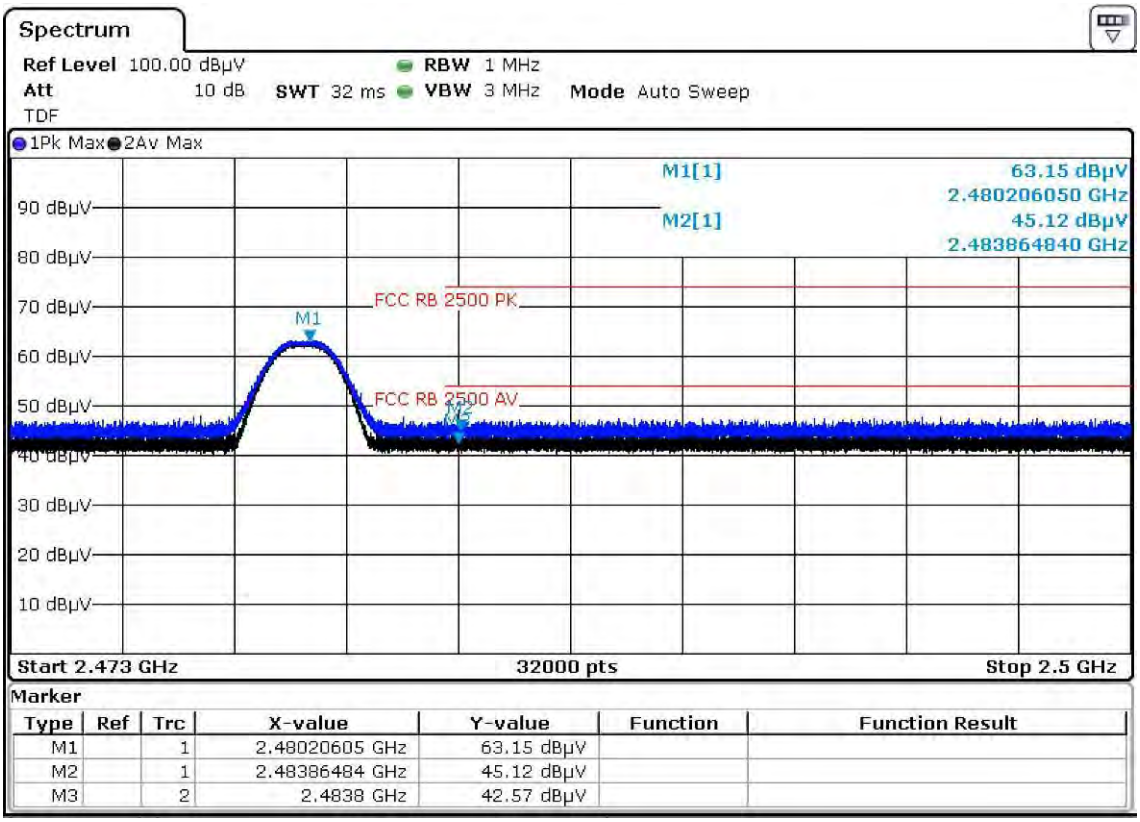
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48020605 GHz	63.15 dBµV		
M2		1	2.48386484 GHz	45.12 dBµV		
M3		2	2.4838 GHz	42.57 dBµV		

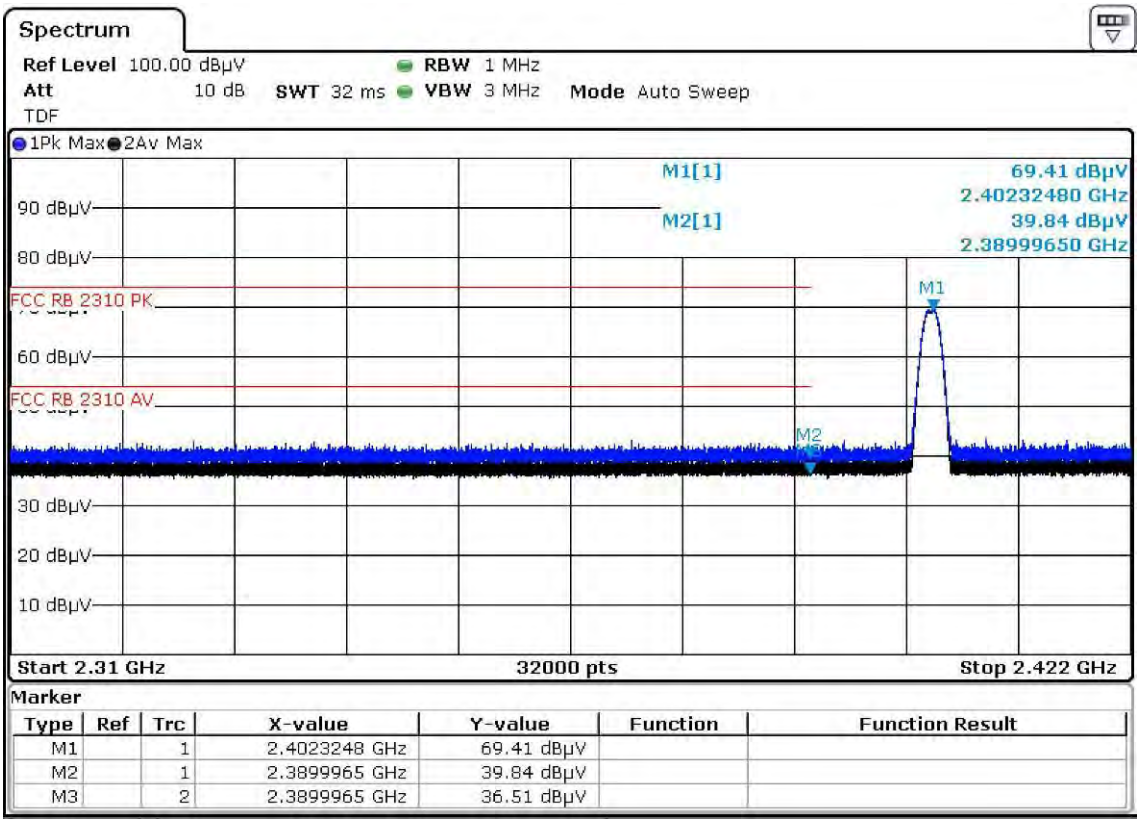
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 1 @2402 MHz, date rate: 1 MHz
Test voltage	24 Vdc

Results

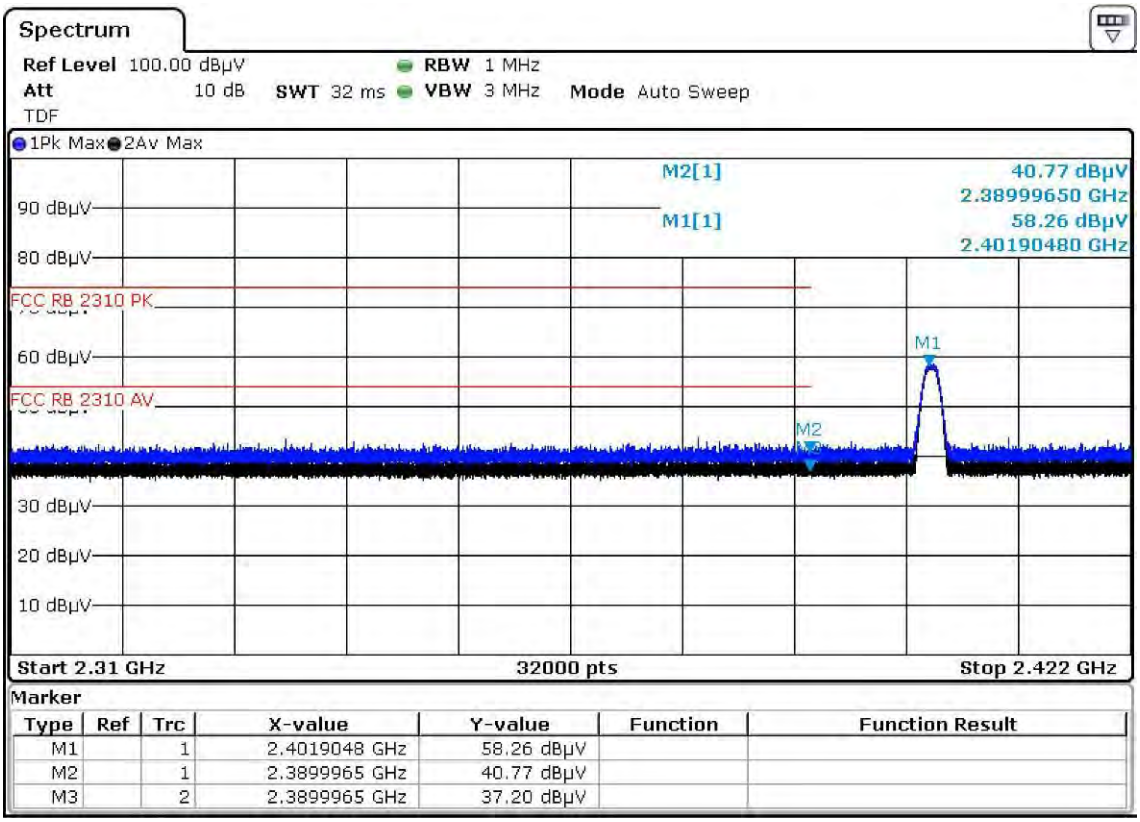
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4019048 GHz	58.26 dBµV		
M2		1	2.3899965 GHz	40.77 dBµV		
M3		2	2.3899965 GHz	37.20 dBµV		

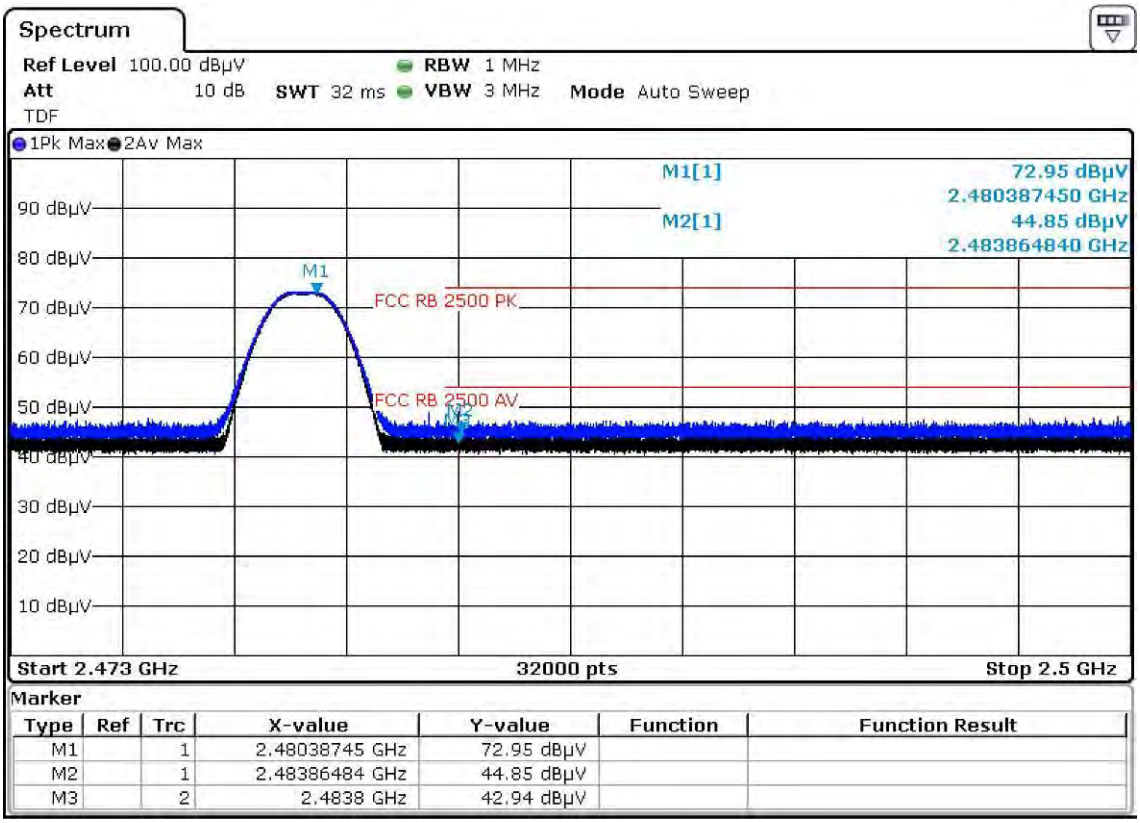
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 1 @2480 MHz, date rate: 1 MHz
Test voltage	24 Vdc

Results

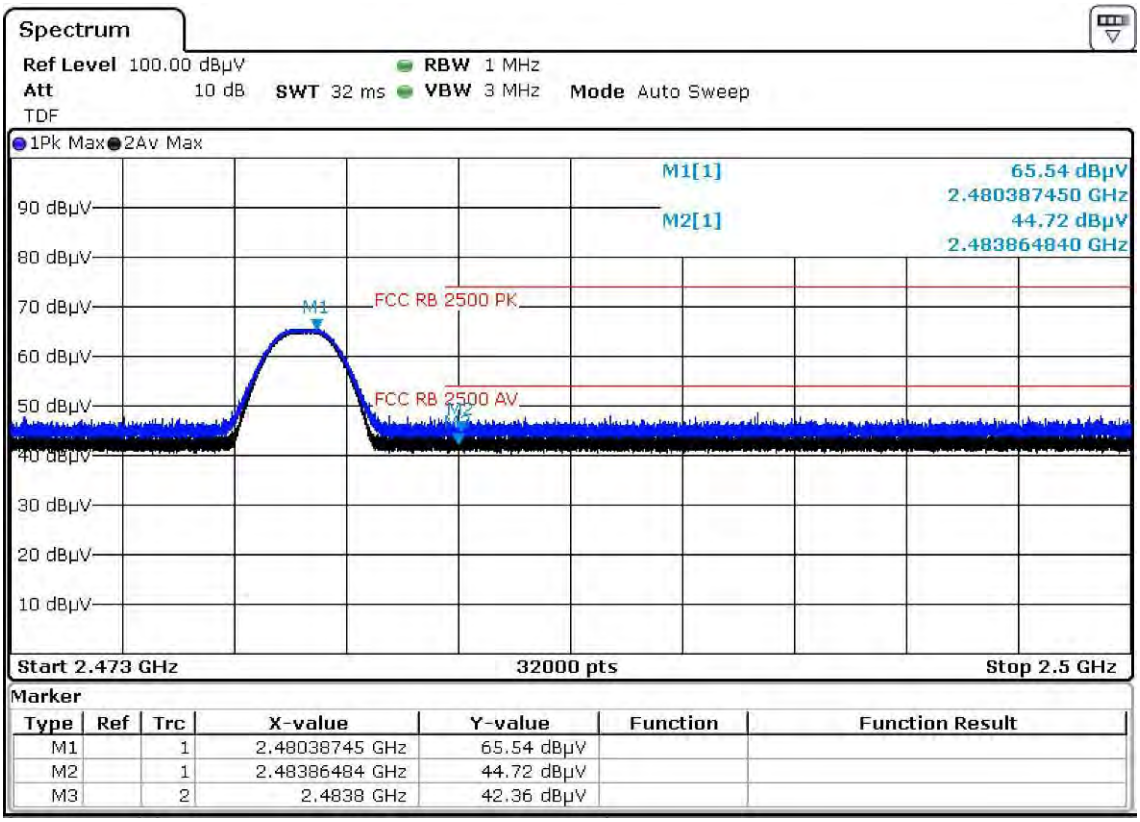
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48038745 GHz	65.54 dBµV		
M2		1	2.48386484 GHz	44.72 dBµV		
M3		2	2.4838 GHz	42.36 dBµV		

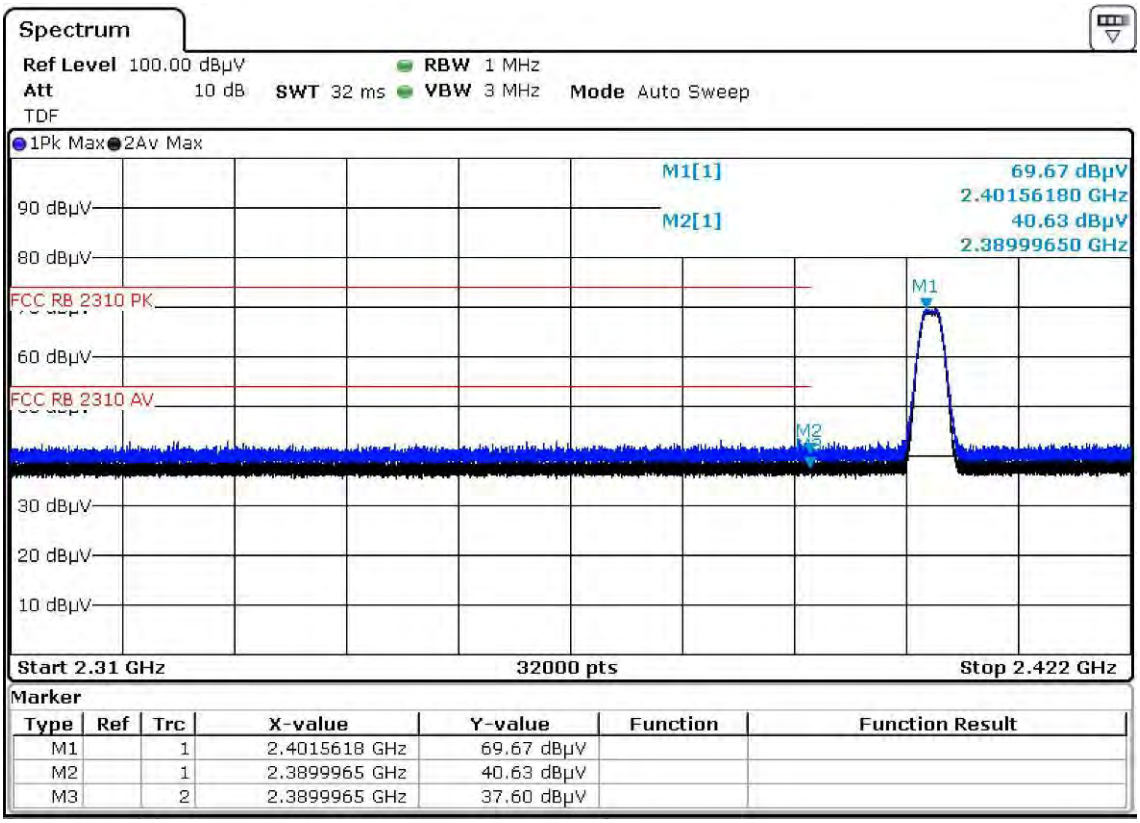
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 1 @2402 MHz, date rate: 2 MHz
Test voltage	24 Vdc

Results

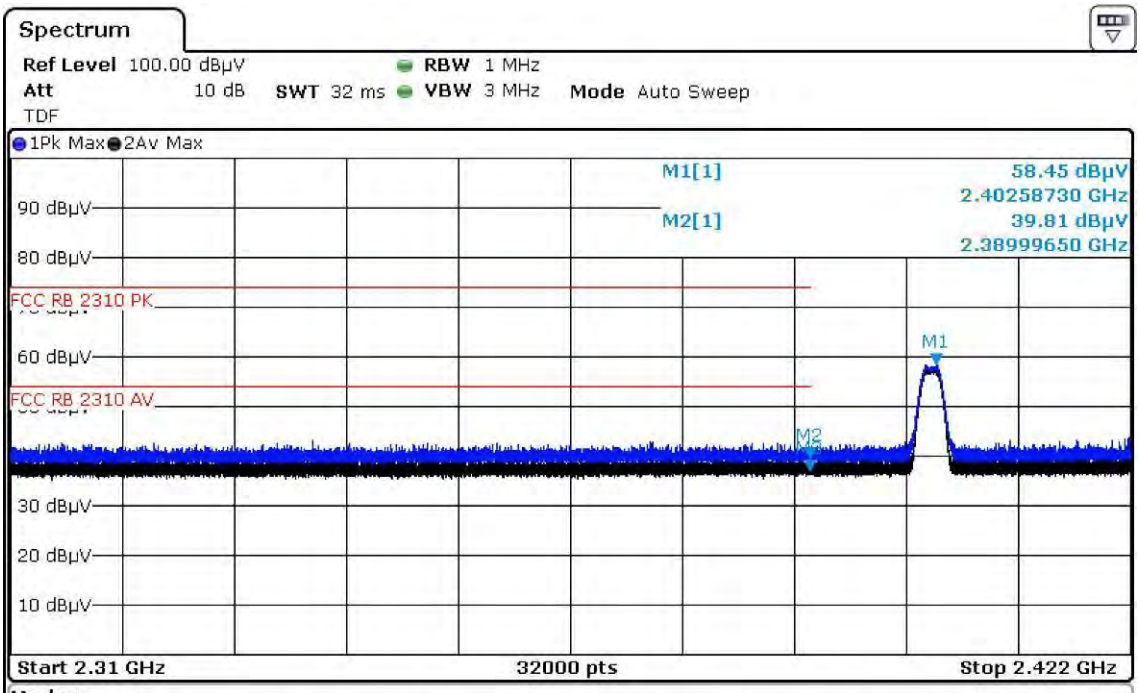
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4025873 GHz	58.45 dBµV		
M2		1	2.3899965 GHz	39.81 dBµV		
M3		2	2.3899965 GHz	37.14 dBµV		

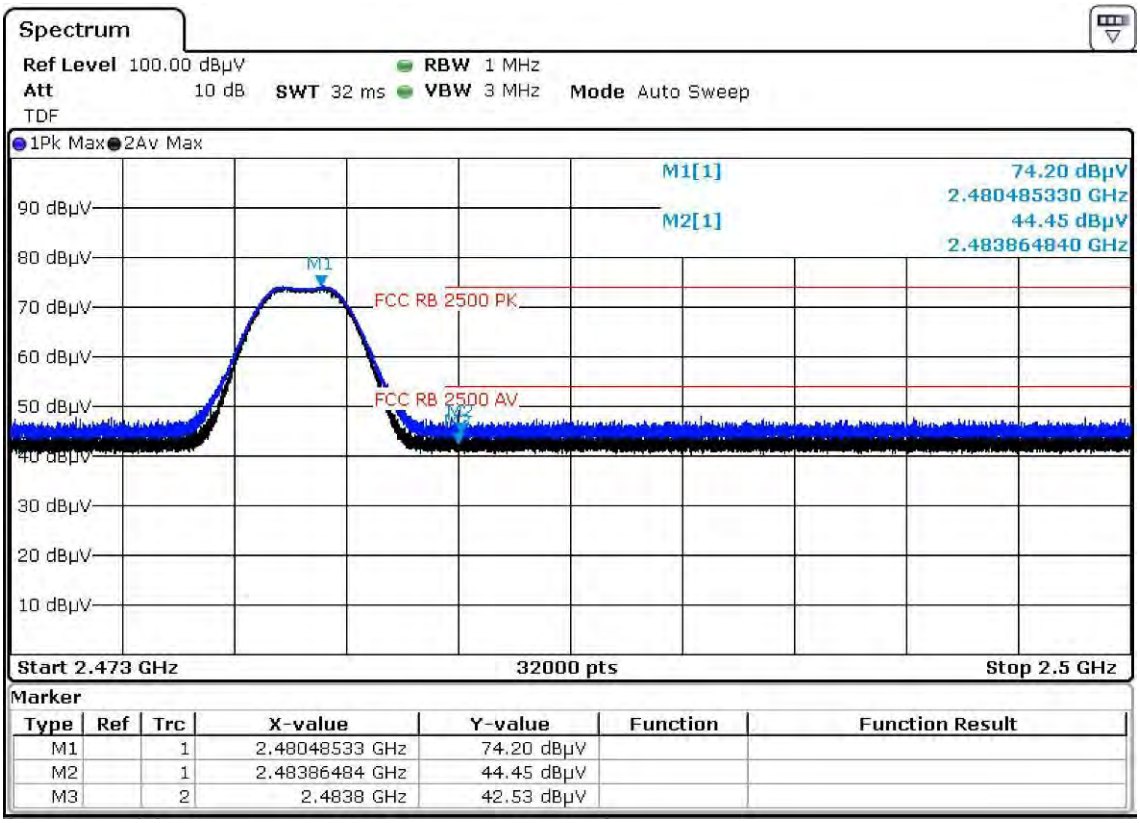
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 1 @2480 MHz, date rate: 2 MHz
Test voltage	24 Vdc

Results

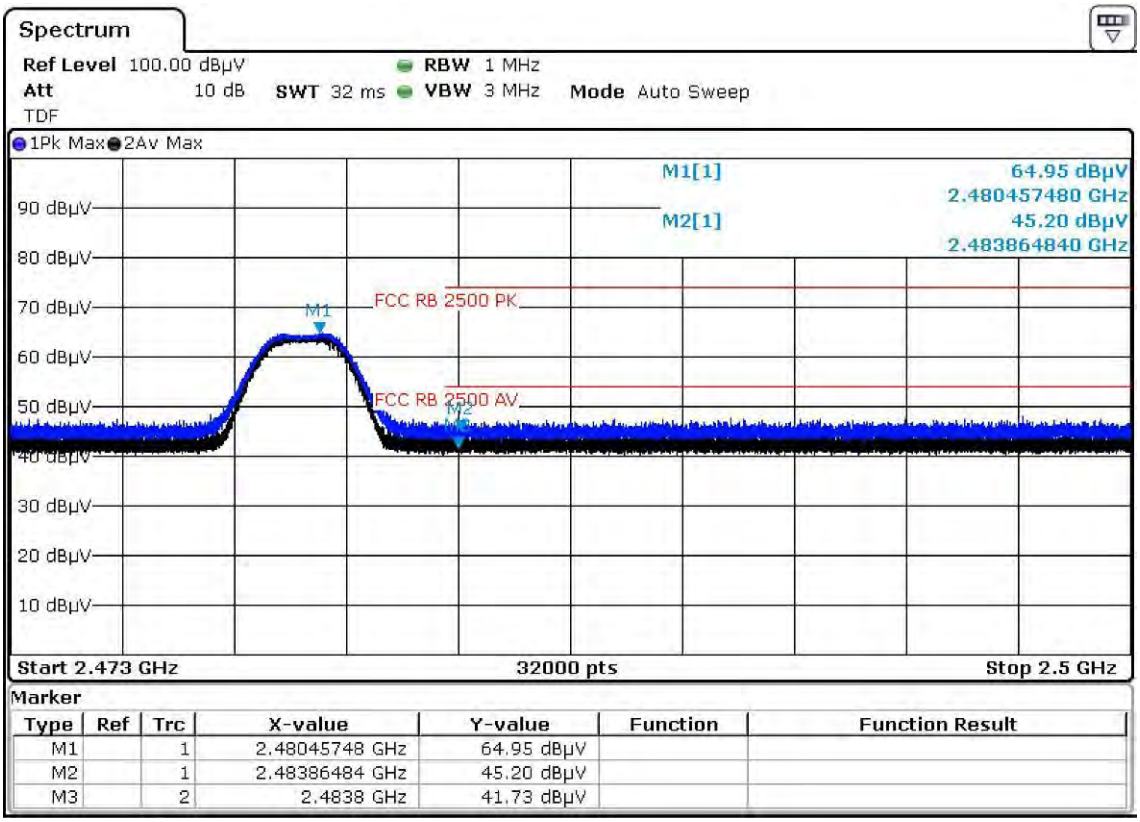
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48045748 GHz	64.95 dBµV		
M2		1	2.48386484 GHz	45.20 dBµV		
M3		2	2.4838 GHz	41.73 dBµV		

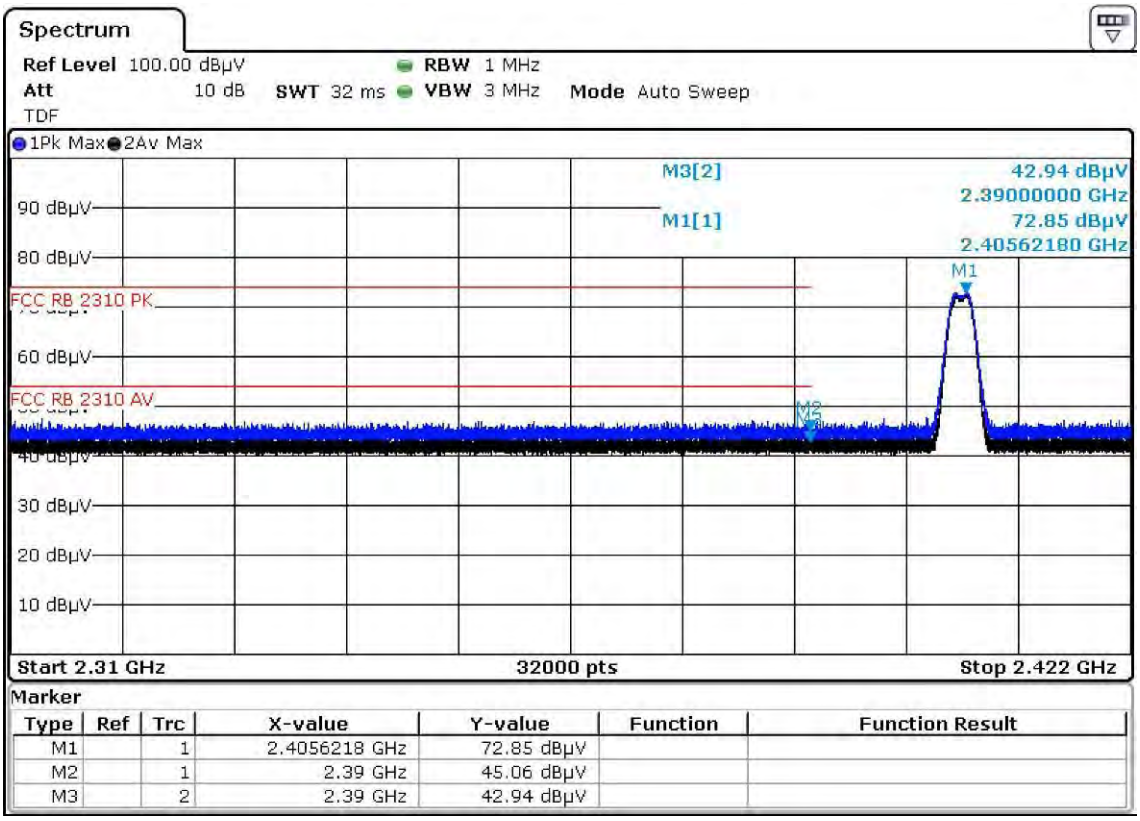
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 2 @2405 MHz
Test voltage	24 Vdc

Results

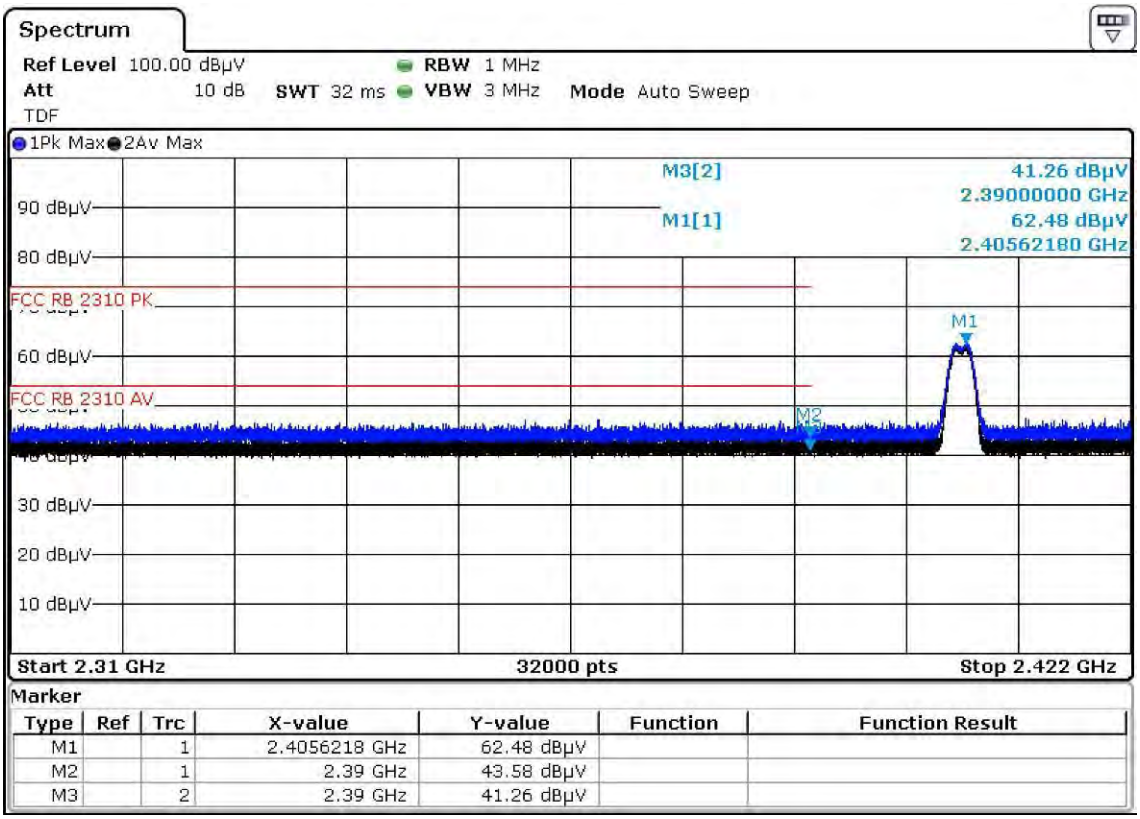
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



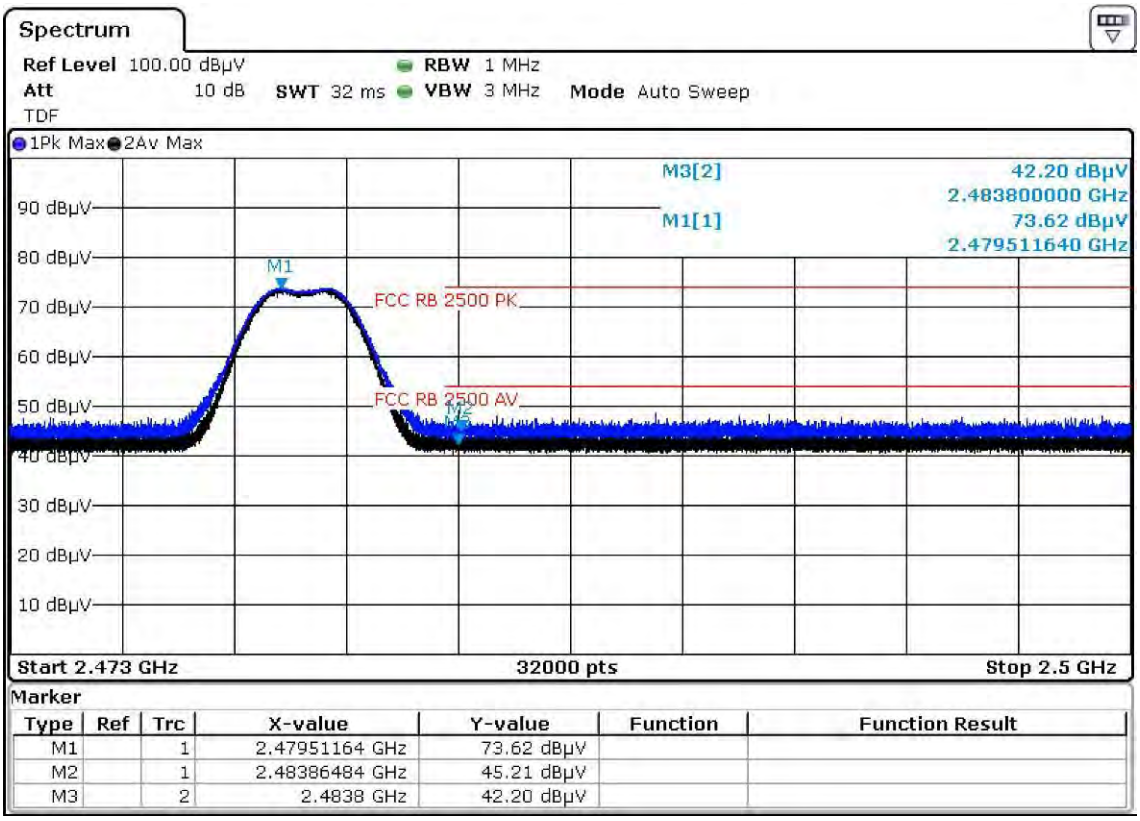
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	42949
Operation Mode	Mode 2 @2480 MHz
Test voltage	24 Vdc

Results

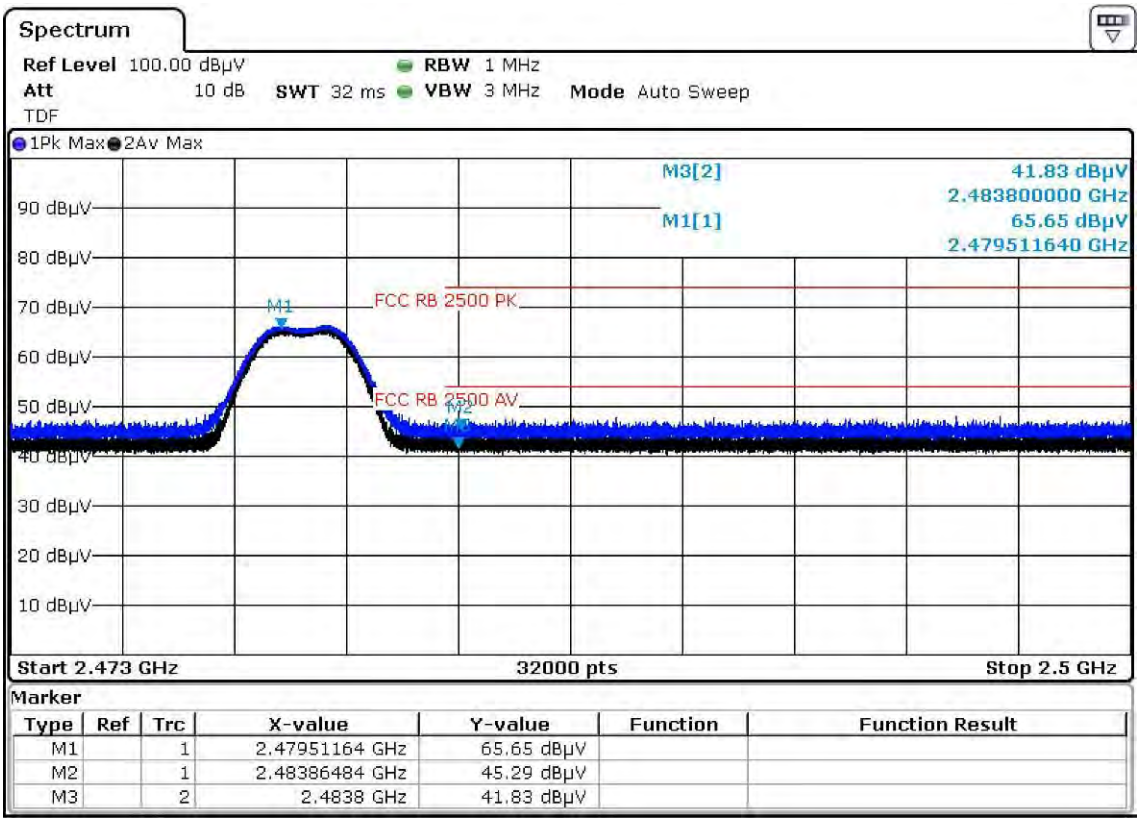
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47951164 GHz	65.65 dBµV		
M2		1	2.48386484 GHz	45.29 dBµV		
M3		2	2.4838 GHz	41.83 dBµV		

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

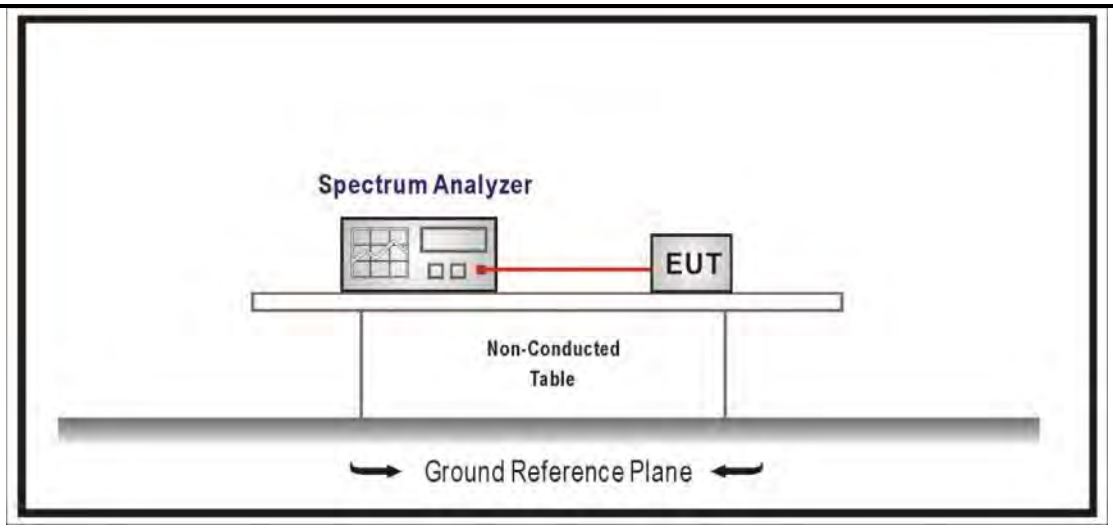
4.4	Band Edge	VERDICT: PASS

Standard	FCC Part 15 Subpart C Paragraph 15.247(d)
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30dBc(Note1)
RF Output power(PK detector)	20dBc(Note2)

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at by LEast 30 dB relative to the maximum in-band peak PSD by LEvel in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at by least 20 dB relative to the maximum in-band peak PSD by level in 100 kHz (i.e., 20 dBc).

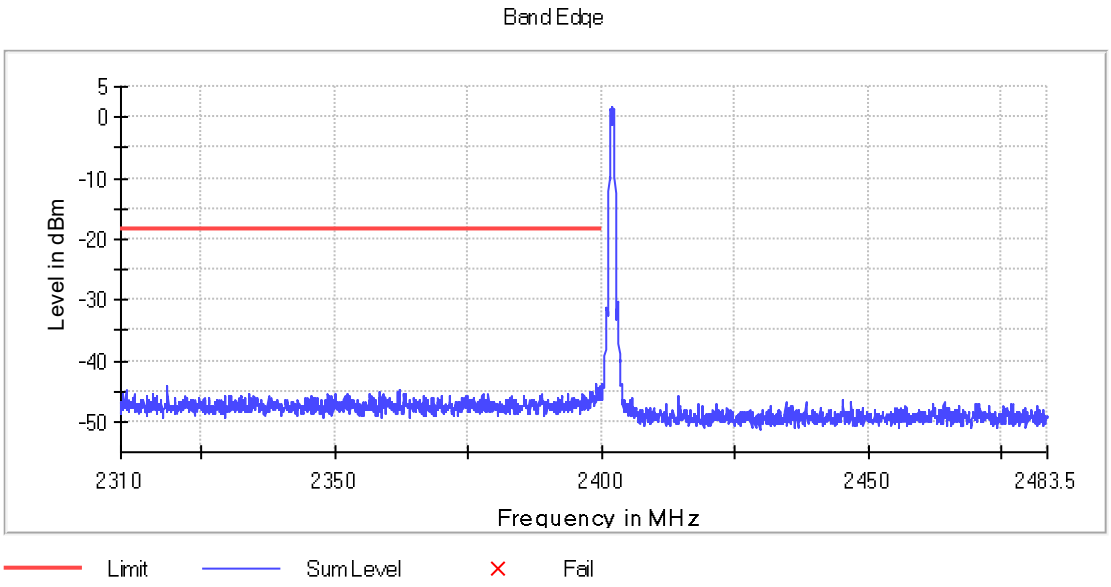
Test Configuration



Performed measurements

Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, 2	
Remark	---	

Results for mode 1 @2402 MHz, date rate: 125 KHz



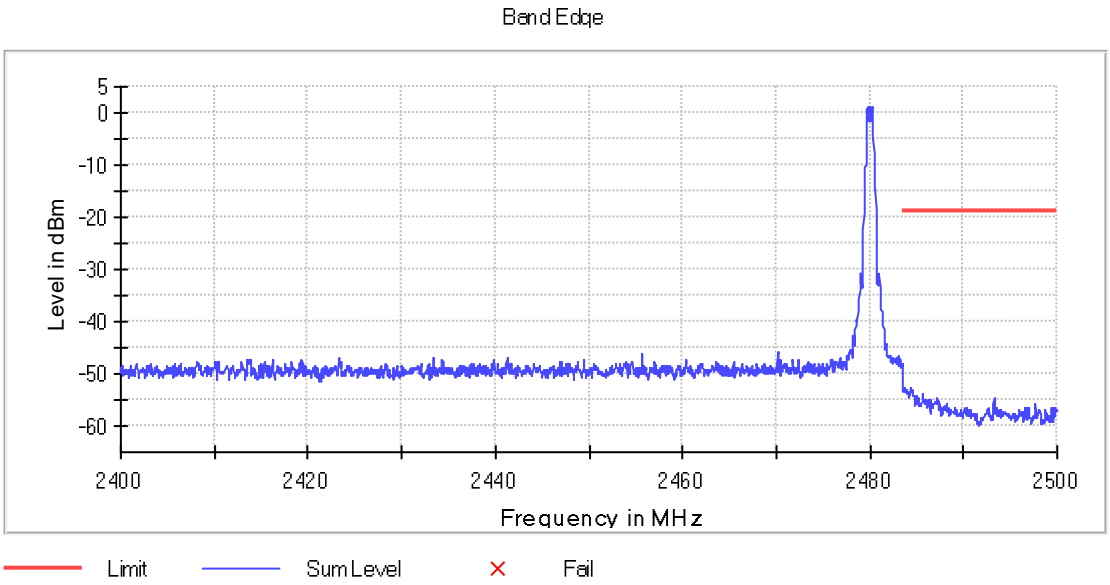
Inband Peak

Frequency (MHz)	Level (dBm)
2402.0000	

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.125000	-43.8	25.4	-18.4	PASS
2399.975000	-44.0	25.7	-18.4	PASS
2399.575000	-44.2	25.8	-18.4	PASS
2318.775000	-44.2	25.8	-18.4	PASS
2399.325000	-44.4	26.1	-18.4	PASS
2399.275000	-44.6	26.2	-18.4	PASS
2310.975000	-44.6	26.3	-18.4	PASS
2399.375000	-44.7	26.3	-18.4	PASS
2399.175000	-44.7	26.3	-18.4	PASS
2362.175000	-44.7	26.3	-18.4	PASS
2311.025000	-44.7	26.4	-18.4	PASS
2399.825000	-44.8	26.4	-18.4	PASS
2399.925000	-44.8	26.4	-18.4	PASS
2399.075000	-44.9	26.5	-18.4	PASS
2399.725000	-44.9	26.5	-18.4	PASS

Results for mode 1 @2480 MHz, date rate: 125 KHz



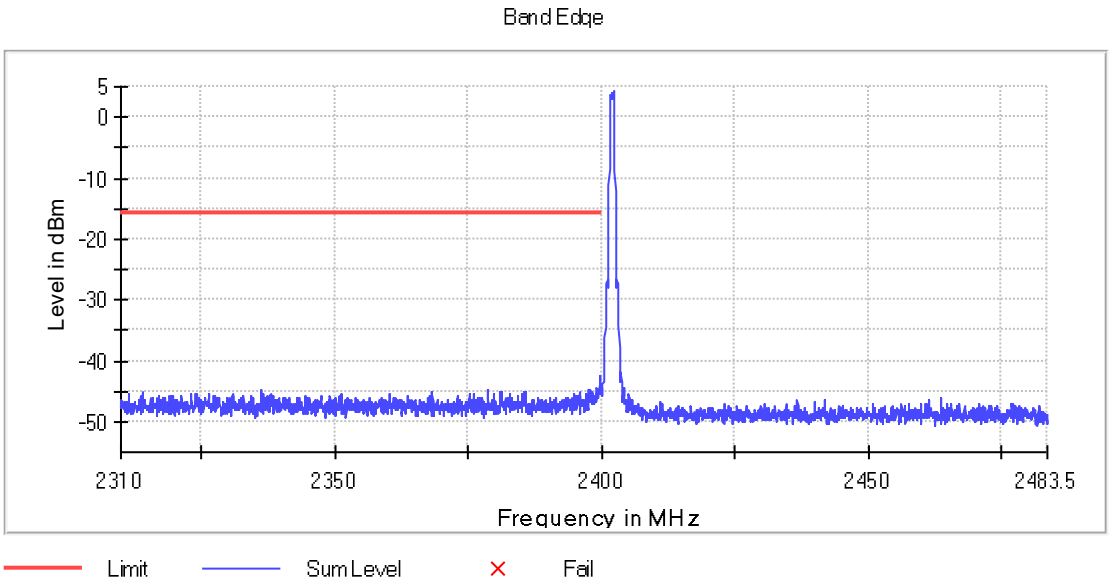
Inband Peak

Frequency (MHz)	Level (dBm)
2480.0000	

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.525000	-51.8	33.0	-18.8	PASS
2484.425000	-52.6	33.9	-18.8	PASS
2484.375000	-52.7	33.9	-18.8	PASS
2483.725000	-52.8	34.0	-18.8	PASS
2483.775000	-52.8	34.1	-18.8	PASS
2483.925000	-53.0	34.3	-18.8	PASS
2484.525000	-53.2	34.4	-18.8	PASS
2483.625000	-53.2	34.5	-18.8	PASS
2483.575000	-53.3	34.5	-18.8	PASS
2484.475000	-53.3	34.5	-18.8	PASS
2484.575000	-53.4	34.6	-18.8	PASS
2484.325000	-53.4	34.6	-18.8	PASS
2483.875000	-53.5	34.7	-18.8	PASS
2483.825000	-53.5	34.7	-18.8	PASS
2483.675000	-53.5	34.8	-18.8	PASS

Results for mode 1 @2402 MHz, date rate: 500 KHz



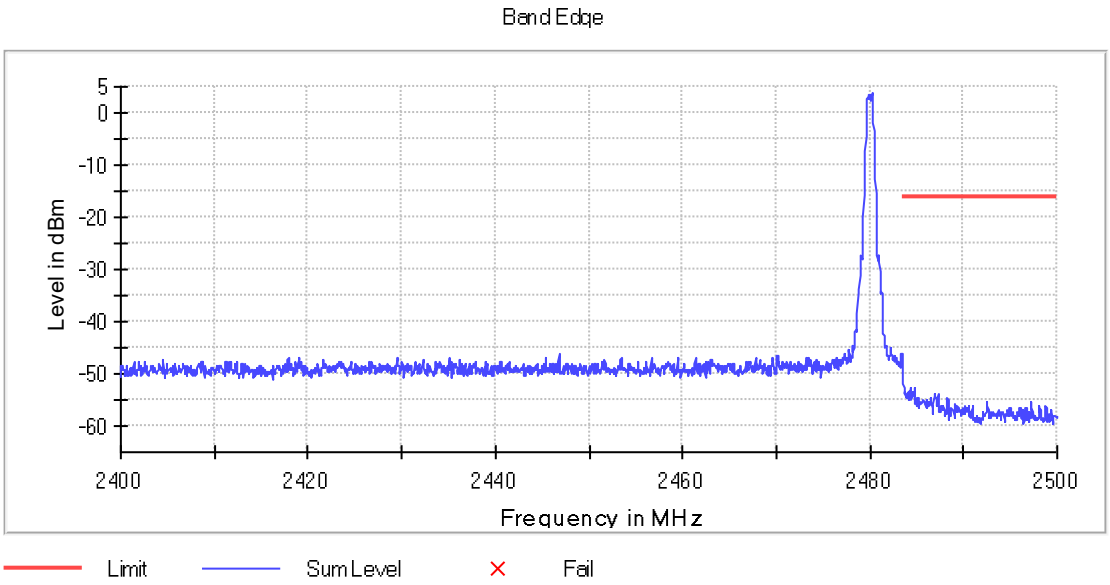
Inband Peak

Frequency (MHz)	Level (dBm)
2402.0000	

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.775000	-42.5	26.9	-15.7	PASS
2399.825000	-42.6	26.9	-15.7	PASS
2399.875000	-43.4	27.7	-15.7	PASS
2399.725000	-43.6	27.9	-15.7	PASS
2399.625000	-43.7	28.0	-15.7	PASS
2399.575000	-43.8	28.1	-15.7	PASS
2399.175000	-44.3	28.7	-15.7	PASS
2399.975000	-44.4	28.7	-15.7	PASS
2399.225000	-44.6	28.9	-15.7	PASS
2378.825000	-44.7	29.0	-15.7	PASS
2378.775000	-44.8	29.1	-15.7	PASS
2399.375000	-44.8	29.1	-15.7	PASS
2397.675000	-44.8	29.1	-15.7	PASS
2399.425000	-44.8	29.1	-15.7	PASS
2397.725000	-44.8	29.2	-15.7	PASS

Results for mode 1 @2480 MHz, date rate: 500 KHz



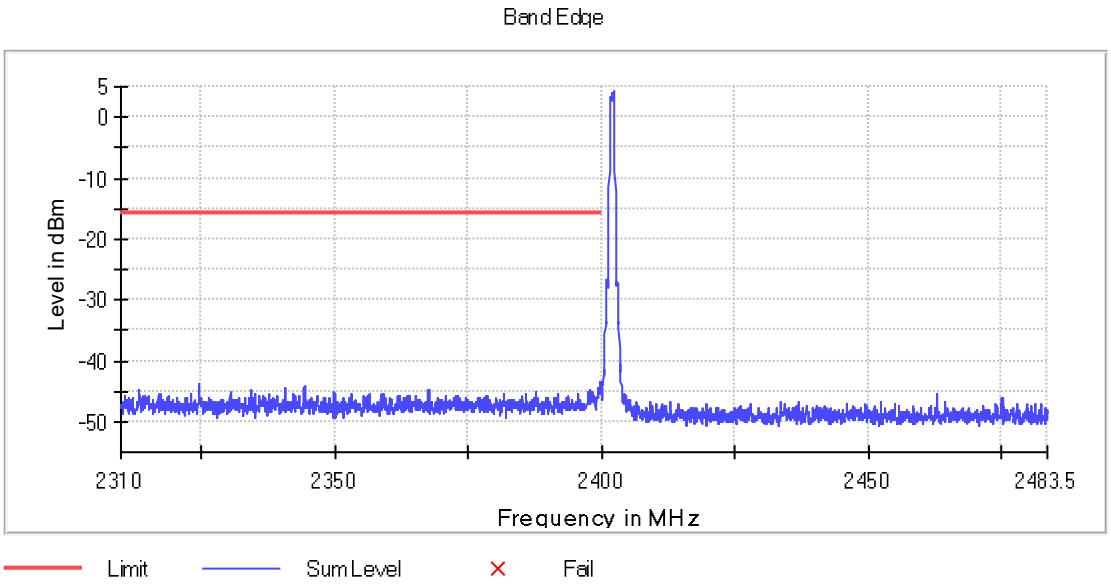
Inband Peak

Frequency (MHz)	Level (dBm)
2480.0000	

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.575000	-51.9	35.8	-16.0	PASS
2483.525000	-52.1	36.0	-16.0	PASS
2484.775000	-52.5	36.5	-16.0	PASS
2484.325000	-52.6	36.6	-16.0	PASS
2483.625000	-52.9	36.8	-16.0	PASS
2484.825000	-52.9	36.9	-16.0	PASS
2484.275000	-53.0	37.0	-16.0	PASS
2484.375000	-53.1	37.0	-16.0	PASS
2484.425000	-53.3	37.2	-16.0	PASS
2483.775000	-53.3	37.2	-16.0	PASS
2484.075000	-53.3	37.3	-16.0	PASS
2483.725000	-53.5	37.5	-16.0	PASS
2484.225000	-53.6	37.5	-16.0	PASS
2484.625000	-53.6	37.6	-16.0	PASS
2484.125000	-53.7	37.7	-16.0	PASS

Results for mode 1 @2402 MHz, date rate: 1 MHz



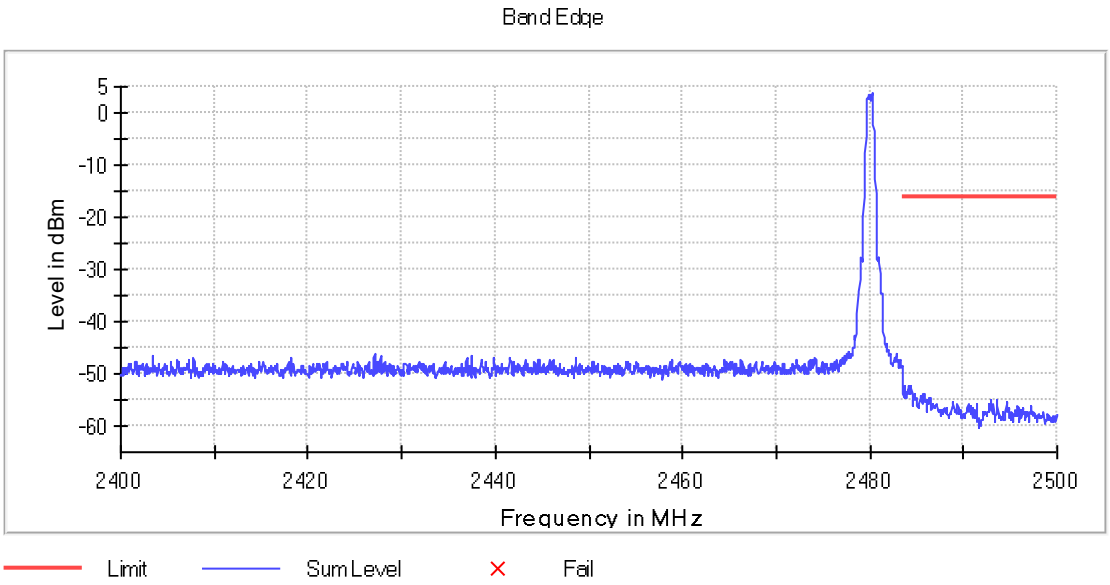
Inband Peak

Frequency (MHz)	Level (dBm)
2402.0000	

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.875000	-43.5	27.8	-15.7	PASS
2399.825000	-43.8	28.1	-15.7	PASS
2399.775000	-43.8	28.1	-15.7	PASS
2324.625000	-43.9	28.2	-15.7	PASS
2344.375000	-44.3	28.6	-15.7	PASS
2324.675000	-44.4	28.6	-15.7	PASS
2324.575000	-44.4	28.7	-15.7	PASS
2340.875000	-44.5	28.8	-15.7	PASS
2344.325000	-44.5	28.8	-15.7	PASS
2399.925000	-44.5	28.8	-15.7	PASS
2399.975000	-44.5	28.8	-15.7	PASS
2340.925000	-44.5	28.8	-15.7	PASS
2399.425000	-44.6	28.8	-15.7	PASS
2399.725000	-44.7	29.0	-15.7	PASS
2334.375000	-44.7	29.0	-15.7	PASS

Results for mode 1 @2480 MHz, date rate: 1 MHz



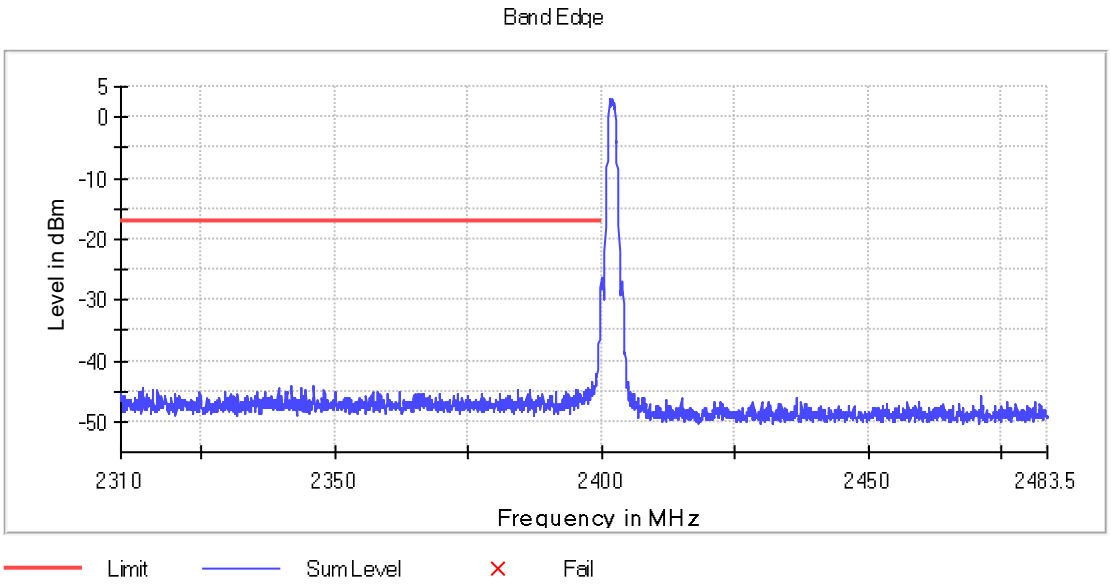
Inband Peak

Frequency (MHz)	Level (dBm)
2480.0000	

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.725000	-52.3	36.1	-16.1	PASS
2484.125000	-52.3	36.2	-16.1	PASS
2484.425000	-52.5	36.4	-16.1	PASS
2484.075000	-52.5	36.4	-16.1	PASS
2484.475000	-52.6	36.4	-16.1	PASS
2483.675000	-52.9	36.8	-16.1	PASS
2484.175000	-53.0	36.9	-16.1	PASS
2483.975000	-53.4	37.3	-16.1	PASS
2483.525000	-53.5	37.3	-16.1	PASS
2483.775000	-53.5	37.4	-16.1	PASS
2484.025000	-53.7	37.5	-16.1	PASS
2484.225000	-53.7	37.5	-16.1	PASS
2483.575000	-53.8	37.6	-16.1	PASS
2485.775000	-53.8	37.7	-16.1	PASS
2484.525000	-53.9	37.8	-16.1	PASS

Results for mode 1 @2402 MHz, date rate: 2 MHz



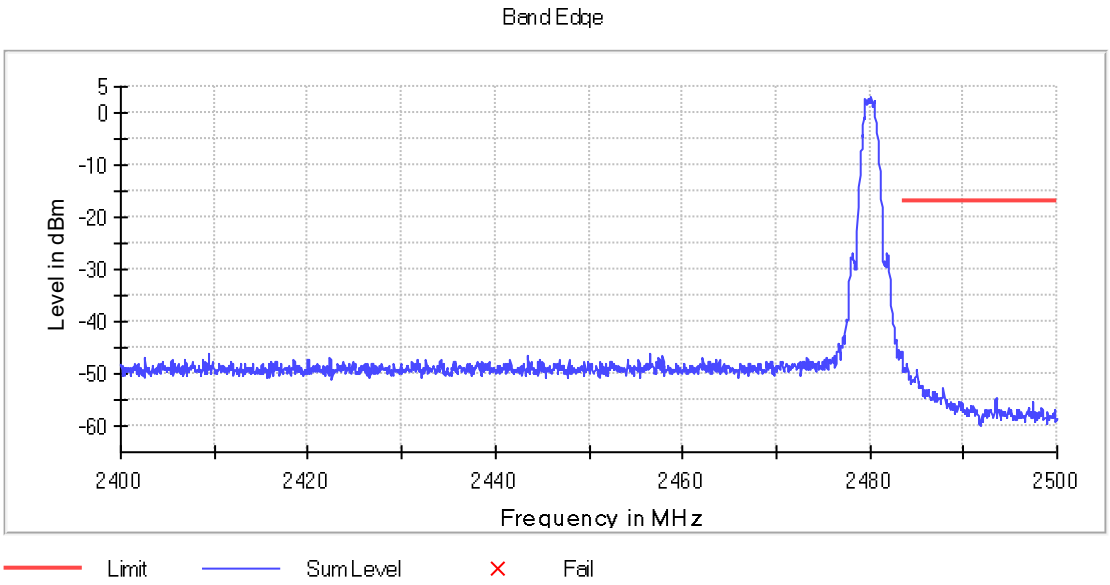
Inband Peak

Frequency (MHz)	Level (dBm)
2402.0000	

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.975000	-26.2	9.2	-17.0	PASS
2399.925000	-28.0	10.9	-17.0	PASS
2399.875000	-29.1	12.1	-17.0	PASS
2399.825000	-30.6	13.5	-17.0	PASS
2399.775000	-32.5	15.5	-17.0	PASS
2399.725000	-34.7	17.7	-17.0	PASS
2399.675000	-35.3	18.2	-17.0	PASS
2399.625000	-35.3	18.3	-17.0	PASS
2399.575000	-36.4	19.4	-17.0	PASS
2399.525000	-37.3	20.3	-17.0	PASS
2399.475000	-37.6	20.6	-17.0	PASS
2399.425000	-40.8	23.8	-17.0	PASS
2399.375000	-40.9	23.9	-17.0	PASS
2399.225000	-41.3	24.3	-17.0	PASS
2399.275000	-41.4	24.4	-17.0	PASS

Results for mode 1 @2480 MHz, date rate: 2 MHz



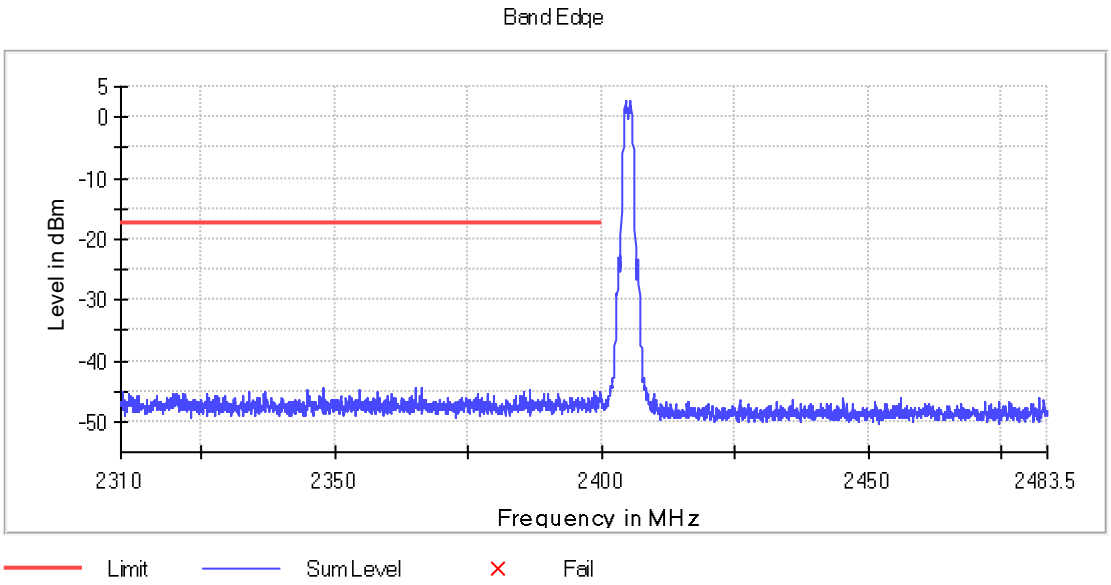
Inband Peak

Frequency (MHz)	Level (dBm)
2480.0000	

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.975000	-48.2	31.1	-17.1	PASS
2483.925000	-48.4	31.3	-17.1	PASS
2484.025000	-48.5	31.4	-17.1	PASS
2483.675000	-48.9	31.9	-17.1	PASS
2485.025000	-49.1	32.0	-17.1	PASS
2483.625000	-49.3	32.3	-17.1	PASS
2483.825000	-49.4	32.3	-17.1	PASS
2483.575000	-49.4	32.3	-17.1	PASS
2483.725000	-49.4	32.4	-17.1	PASS
2483.525000	-49.5	32.4	-17.1	PASS
2484.125000	-49.5	32.4	-17.1	PASS
2485.075000	-49.6	32.5	-17.1	PASS
2483.775000	-49.6	32.6	-17.1	PASS
2484.975000	-49.6	32.6	-17.1	PASS
2484.075000	-49.7	32.6	-17.1	PASS

Results for mode 2 @2405 MHz



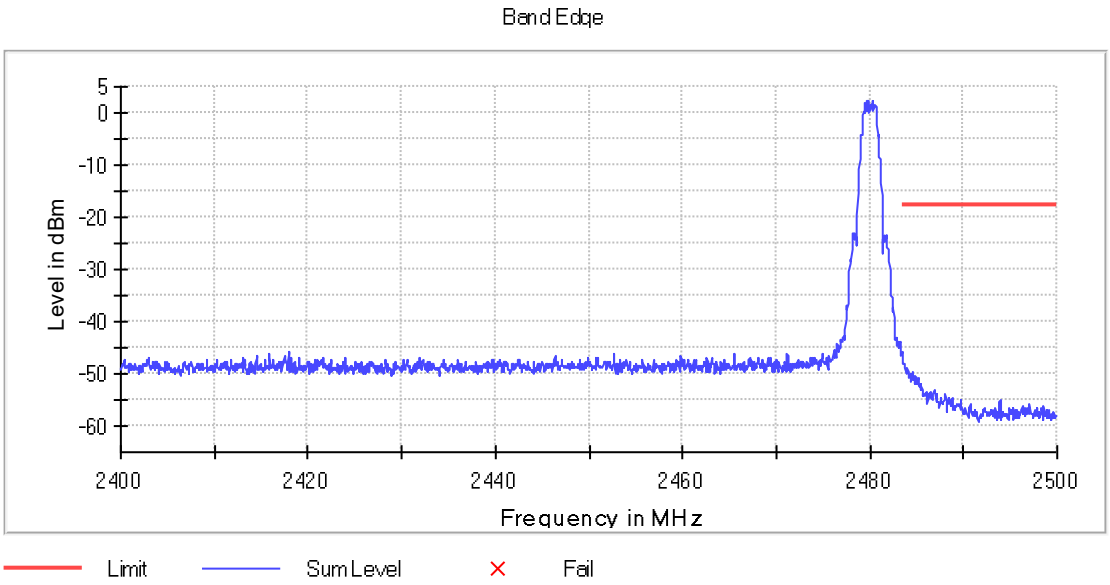
Inband Peak

Frequency (MHz)	Level (dBm)
2402.0000	

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2365.125000	-44.5	27.1	-17.4	PASS
2366.325000	-44.5	27.1	-17.4	PASS
2347.875000	-44.6	27.2	-17.4	PASS
2347.925000	-44.7	27.3	-17.4	PASS
2344.925000	-44.7	27.3	-17.4	PASS
2386.525000	-44.8	27.4	-17.4	PASS
2365.075000	-44.8	27.4	-17.4	PASS
2354.775000	-44.8	27.4	-17.4	PASS
2354.825000	-44.8	27.4	-17.4	PASS
2385.425000	-45.0	27.6	-17.4	PASS
2344.875000	-45.0	27.6	-17.4	PASS
2399.875000	-45.0	27.6	-17.4	PASS
2398.575000	-45.0	27.7	-17.4	PASS
2333.975000	-45.2	27.8	-17.4	PASS
2357.975000	-45.2	27.8	-17.4	PASS

Results for mode 2 @2480 MHz



Inband Peak

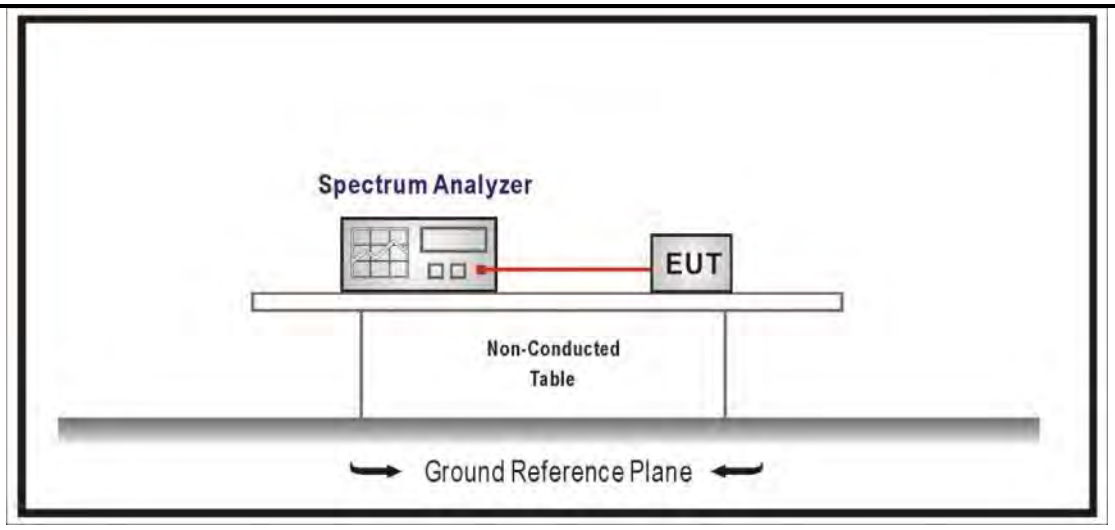
Frequency (MHz)	Level (dBm)
2480.0000	

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.525000	-48.1	30.6	-17.5	PASS
2483.625000	-48.2	30.7	-17.5	PASS
2483.575000	-48.3	30.7	-17.5	PASS
2483.775000	-48.3	30.8	-17.5	PASS
2483.675000	-48.4	30.9	-17.5	PASS
2483.725000	-48.6	31.1	-17.5	PASS
2483.825000	-48.9	31.4	-17.5	PASS
2484.025000	-49.0	31.5	-17.5	PASS
2484.575000	-49.6	32.0	-17.5	PASS
2484.525000	-49.6	32.1	-17.5	PASS
2483.975000	-49.6	32.1	-17.5	PASS
2484.125000	-49.7	32.2	-17.5	PASS
2484.075000	-49.7	32.2	-17.5	PASS
2484.425000	-50.0	32.4	-17.5	PASS
2483.875000	-50.0	32.5	-17.5	PASS

4.5 Duty cycle	VERDICT: PASS

Test Configuration



Performed measurements

Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, 2	
Remark	---	

Results for 125 KHz

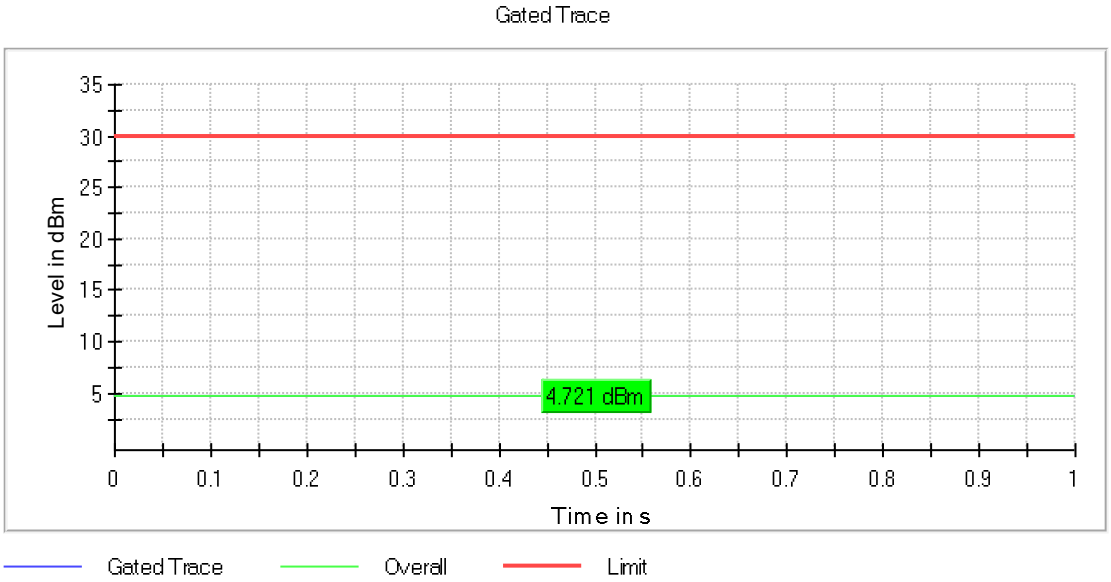
Test Mode	Tx On (ms)	Tx On + Tx Off (ms)	Duty Cycle
Mode 1	---	---	100%

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control Level for the tested mode of operation.
Note 2: According to KDB 558074, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: VBW ≥ 1/T will be used.

Results for 500 KHz

Test Mode	Tx On (ms)	Tx On + Tx Off (ms)	Duty Cycle
Mode 1	---	---	100%

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control Level for the tested mode of operation.
Note 2: According to KDB 558074, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: VBW ≥ 1/T will be used.



Results for 1 MHz

Test Mode	Tx On (ms)	Tx On + Tx Off (ms)	Duty Cycle
Mode 1	---	---	100%

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control Level for the tested mode of operation.

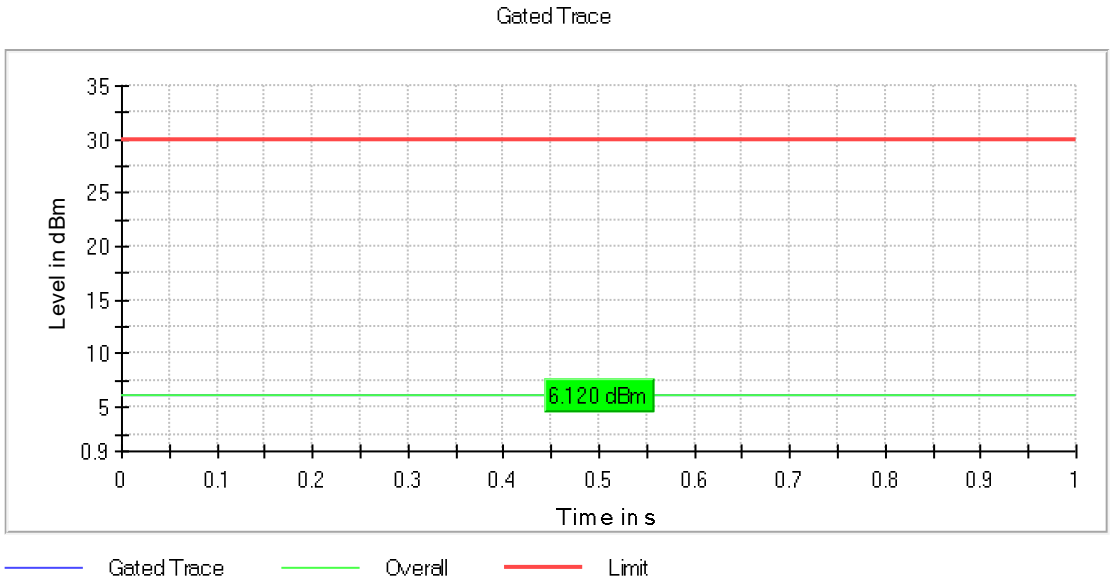
Note 2: According to KDB 558074, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: VBW ≥ 1/T will be used.

Results for 2 MHz

Test Mode	Tx On (ms)	Tx On + Tx Off (ms)	Duty Cycle
Mode 1	---	---	100%

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control Level for the tested mode of operation.

Note 2: According to KDB 558074, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: VBW ≥ 1/T will be used.



Results

Test Mode	Tx On (ms)	Tx On + Tx Off (ms)	Duty Cycle
Mode 2	---	---	100%

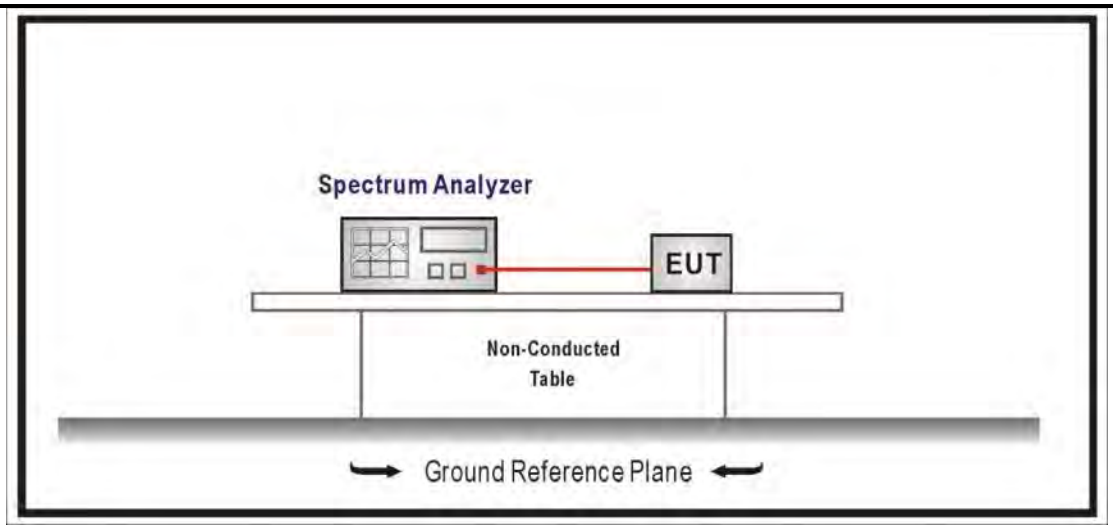
Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control Level for the tested mode of operation.

Note 2: According to KDB 558074, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: VBW ≥ 1/T will be used.

4.6 DTS Bandwidth	VERDICT: PASS

Standard	FCC Part 15 Subpart C Paragraph 15.247 (a)(2)
Systems using digital modulation techniques operate in the 2400-2483.5 MHz .The minimum 6 dB bandwidth shall be at by least 500 kHz	

Test Configuration



Performed measurements

Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, 2	
Remark	---	

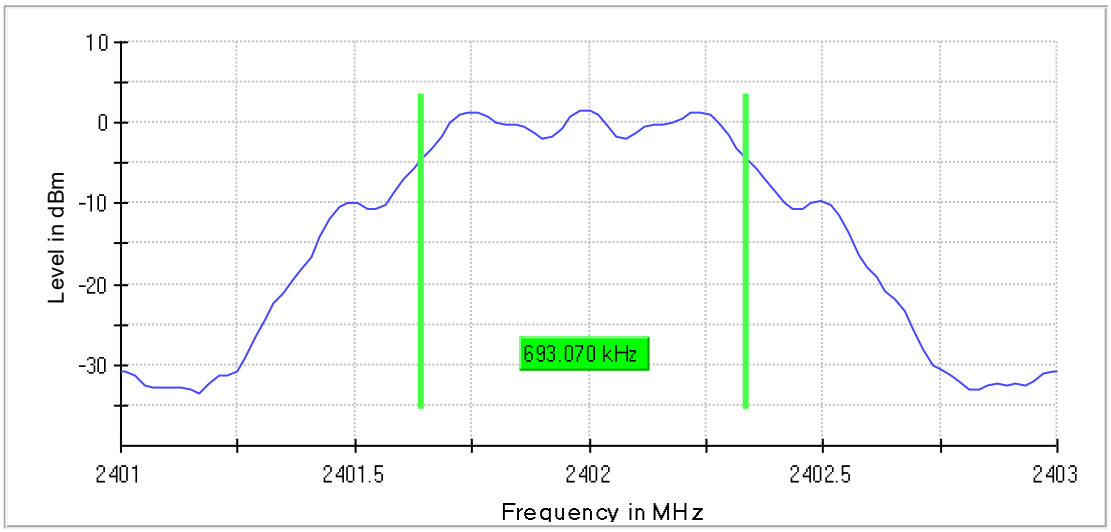
Results for 125 KHz

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
1	0	2402	0.693	>500	Pass
	19	2440	0.693	>500	Pass
	39	2480	0.712	>500	Pass

6dB Occupied Bandwidth

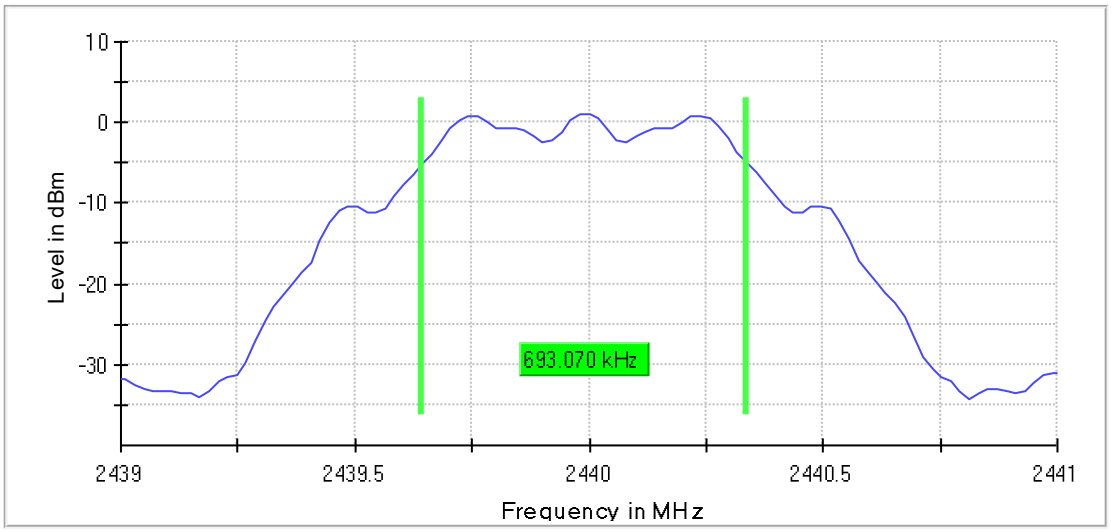
Mode 1 / CH0 (2402MHz)

6 dB Bandwidth

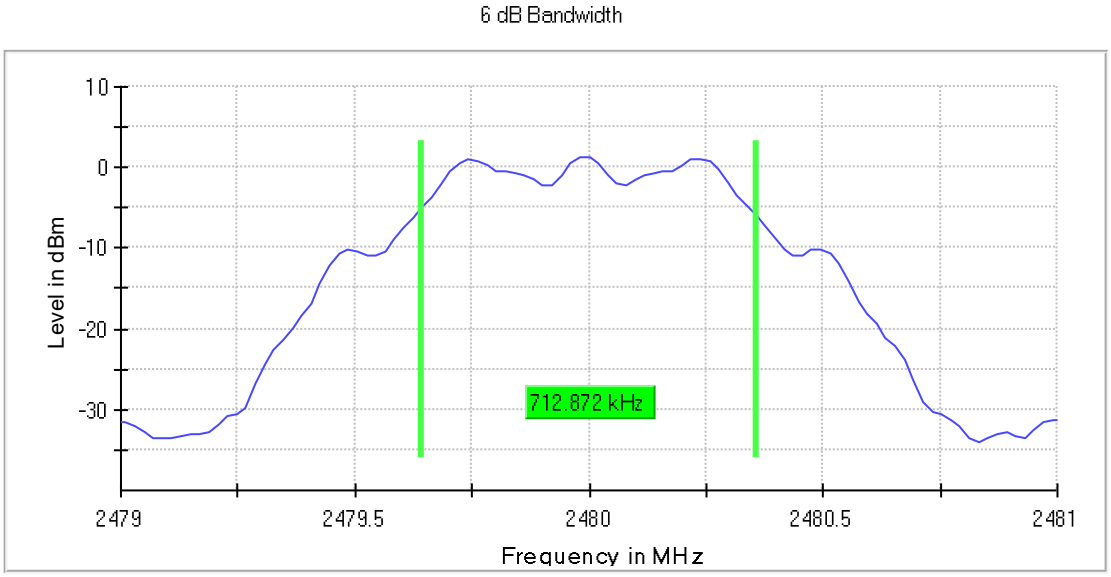


Mode 1 / CH19 (2440MHz)

6 dB Bandwidth



Mode 1 / CH39 (2480MHz)

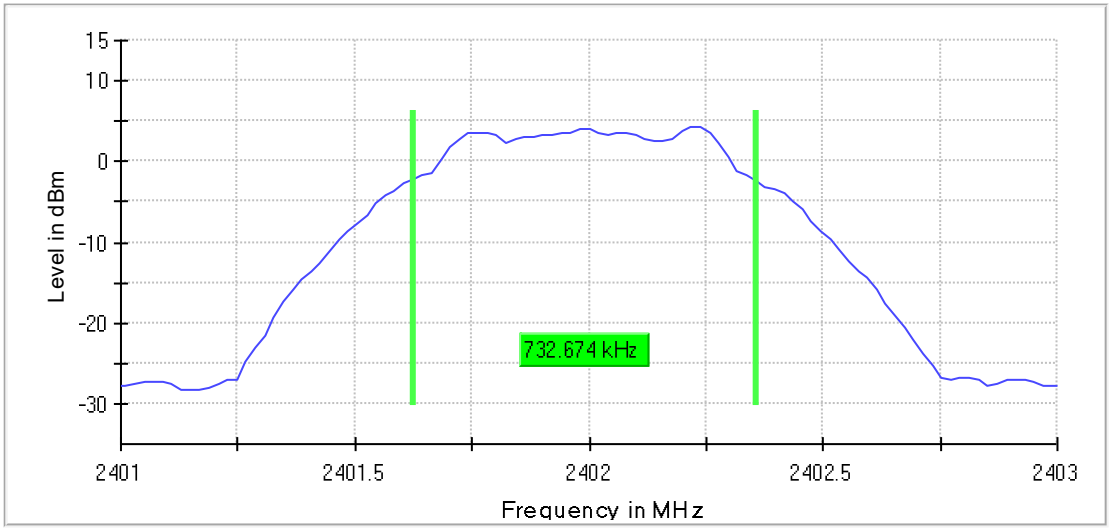


Results for 500 KHz

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
1	0	2402	0.732	>500	Pass
	19	2440	0.732	>500	Pass
	39	2480	0.732	>500	Pass

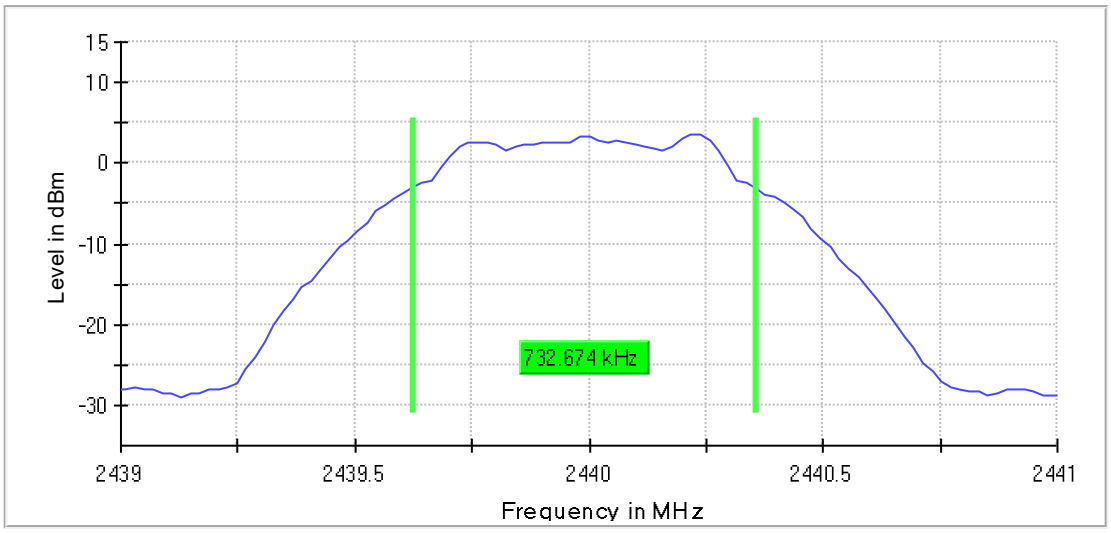
6dB Occupied Bandwidth

Mode 1 / CH0 (2402MHz)



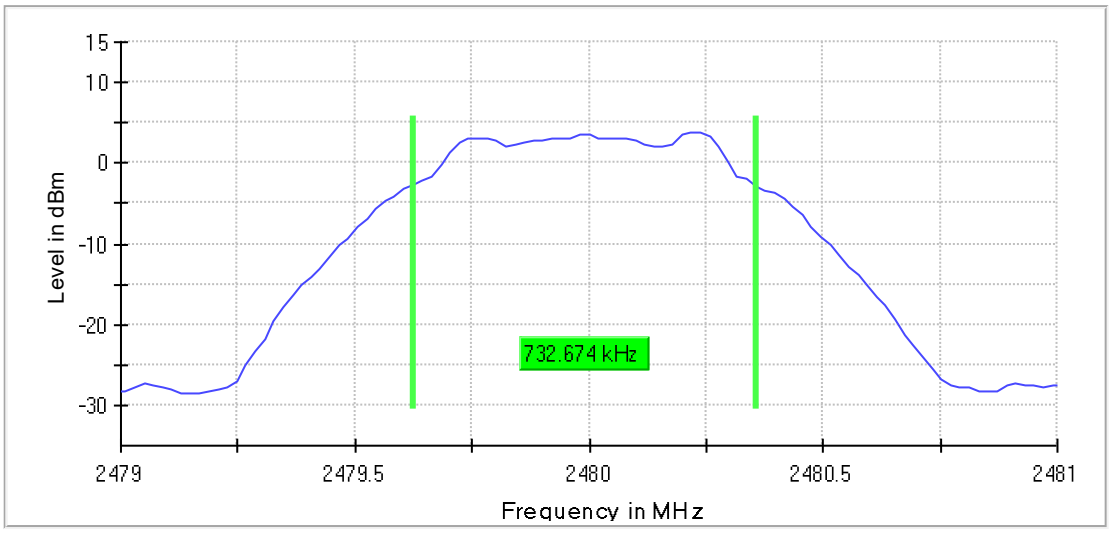
Mode 1 / CH19 (2440MHz)

6 dB Bandwidth



Mode 1 / CH39 (2480MHz)

6 dB Bandwidth

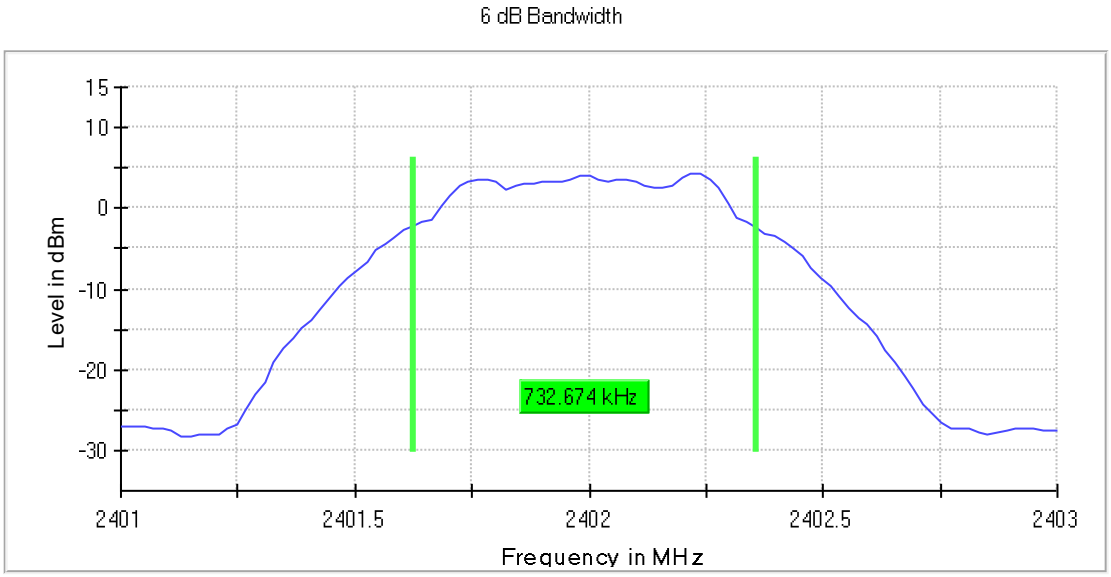


Results for 1 MHz

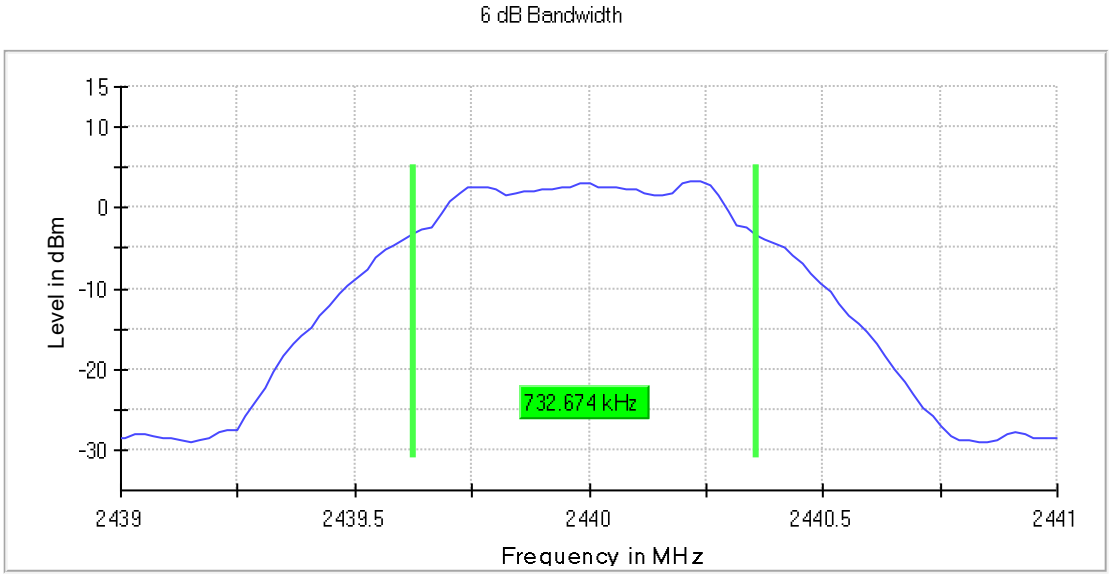
Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
1	0	2402	0.732	>500	Pass
	19	2440	0.732	>500	Pass
	39	2480	0.732	>500	Pass

6dB Occupied Bandwidth

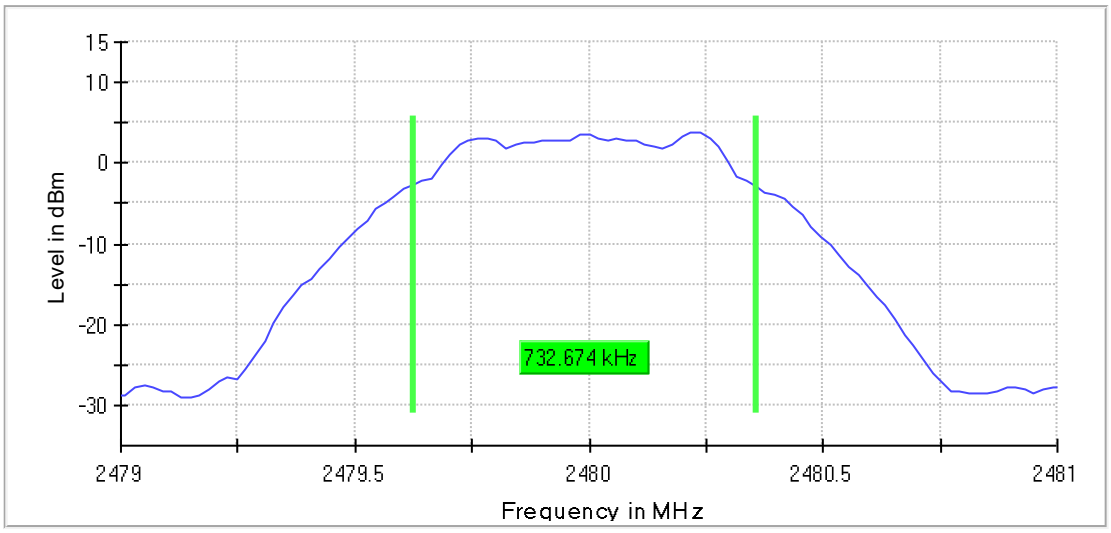
Mode 1 / CH0 (2402MHz)



Mode 1 / CH19 (2440MHz)



Mode 1 / CH39 (2480MHz)

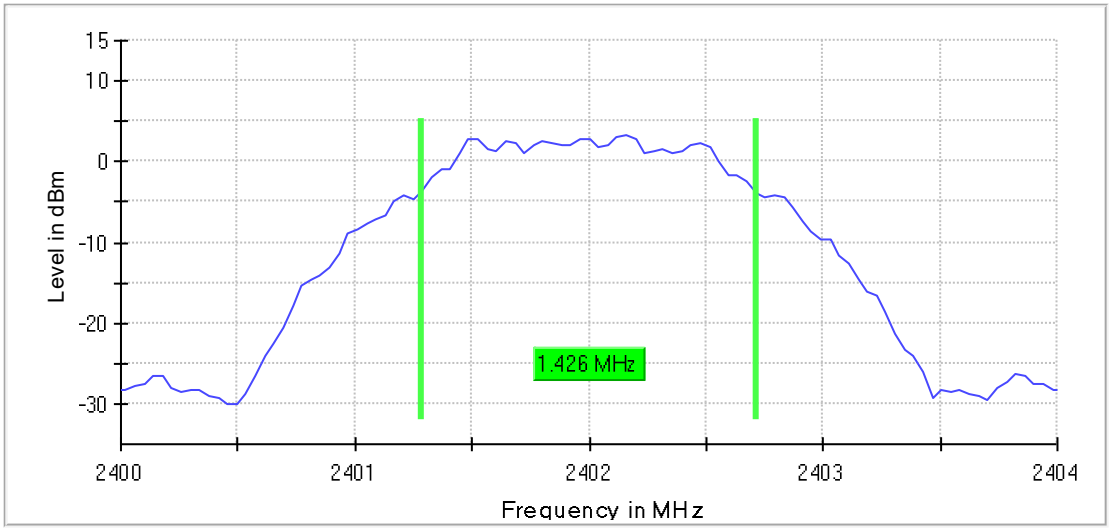


Results for 2 MHz

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
1	0	2402	1.426	>500	Pass
	19	2440	1.426	>500	Pass
	39	2480	1.426	>500	Pass

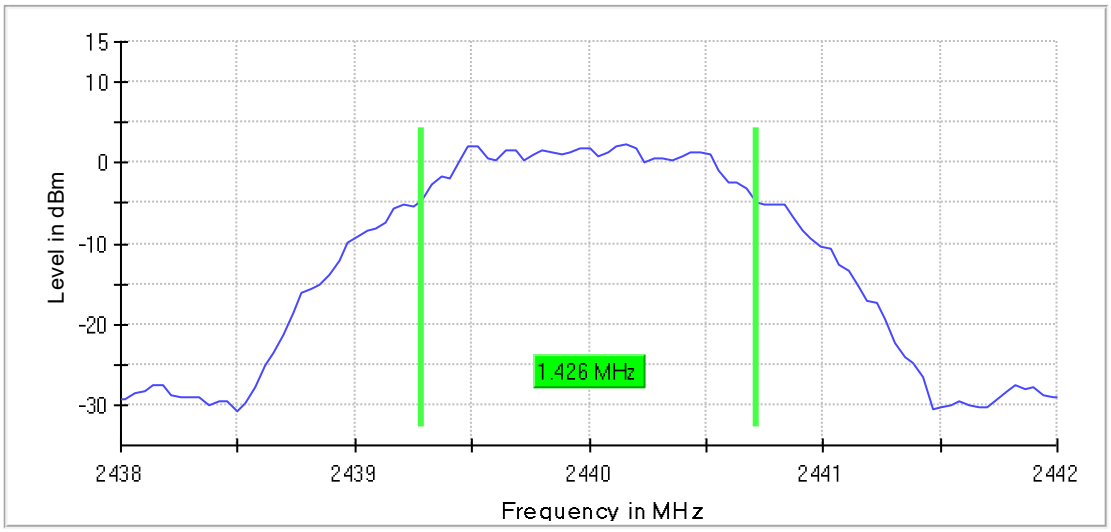
6dB Occupied Bandwidth

Mode 1 / CH0 (2402MHz)



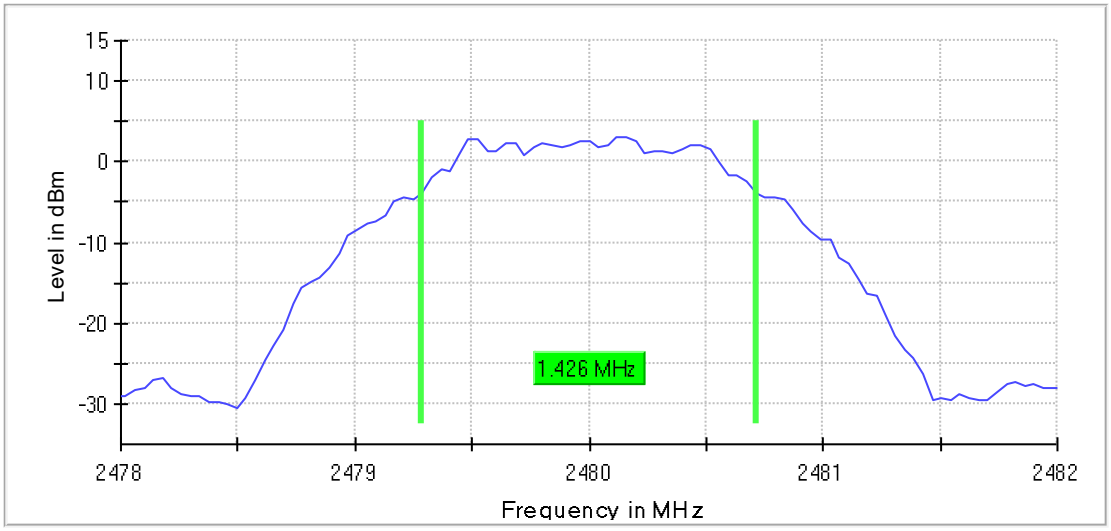
Mode 1 / CH19 (2440MHz)

6 dB Bandwidth



Mode 1 / CH39 (2480MHz)

6 dB Bandwidth



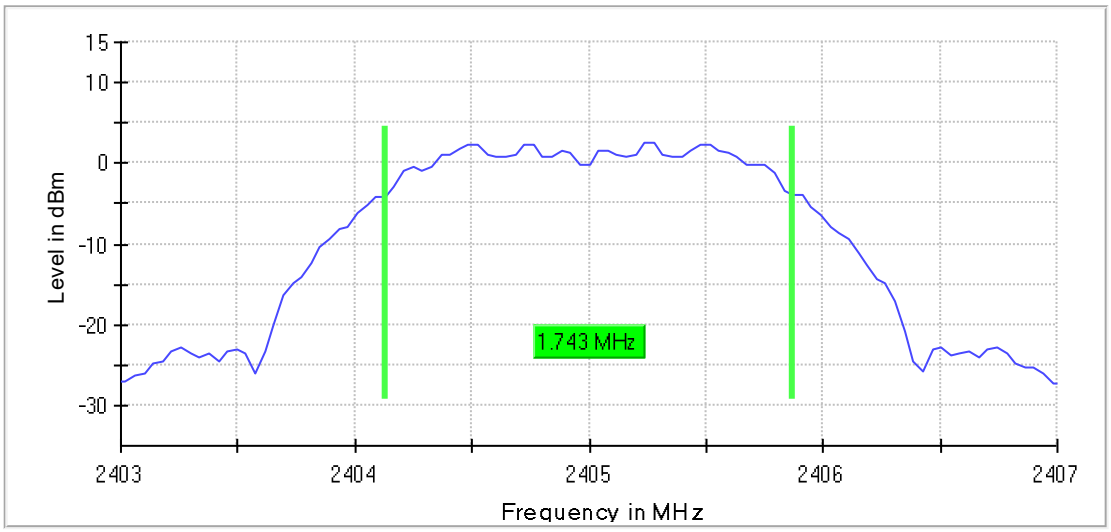
Results

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
2	11	2405	1.743	>500	Pass
	20	2450	1.426	>500	Pass
	26	2480	1.743	>500	Pass

6dB Occupied Bandwidth

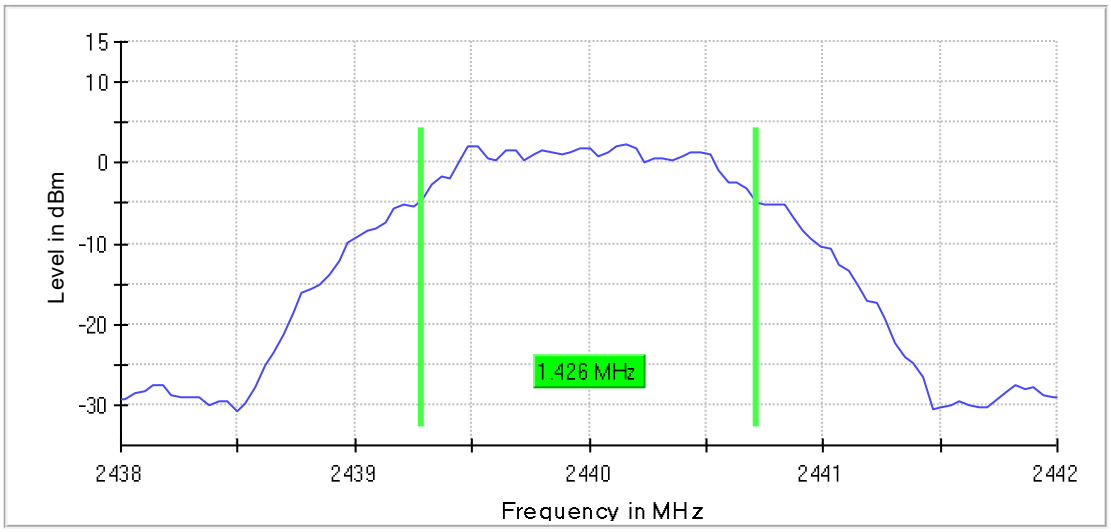
Mode 2 / CH11 (2405MHz)

6 dB Bandwidth



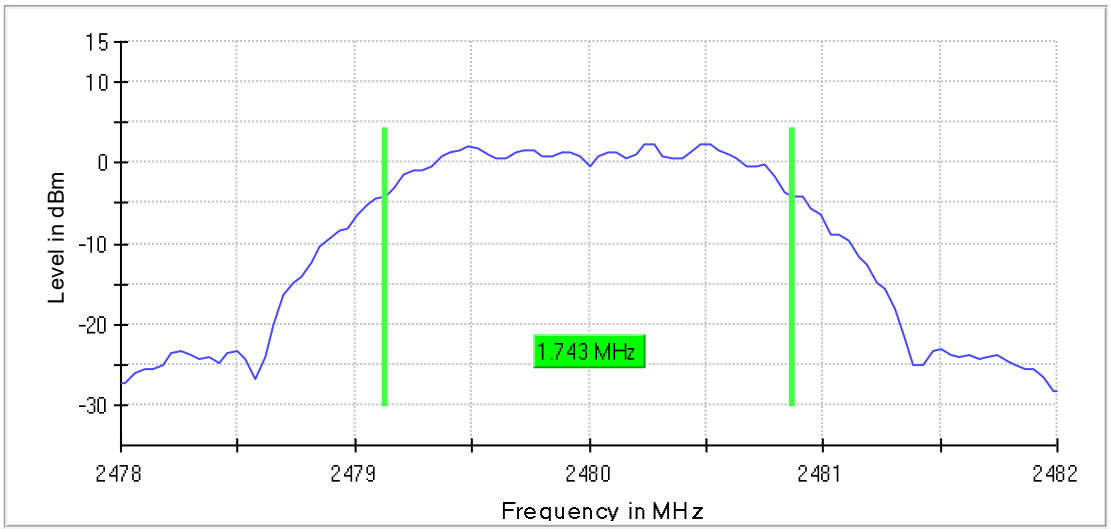
Mode 2 / CH20 (2450MHz)

6 dB Bandwidth



Mode 2 / CH26 (2480MHz)

6 dB Bandwidth

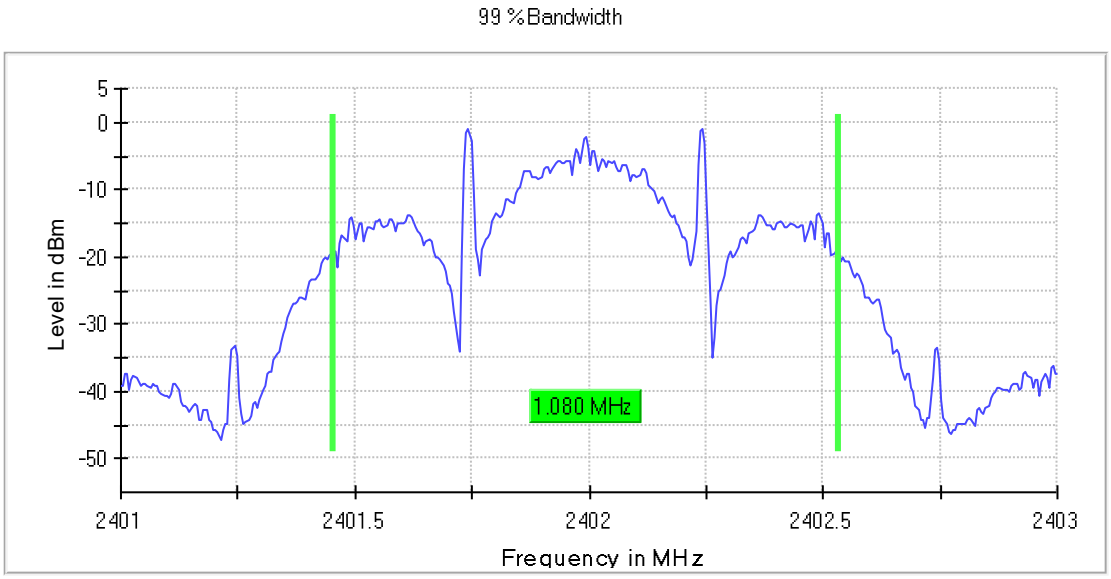


Result for 125 KHz

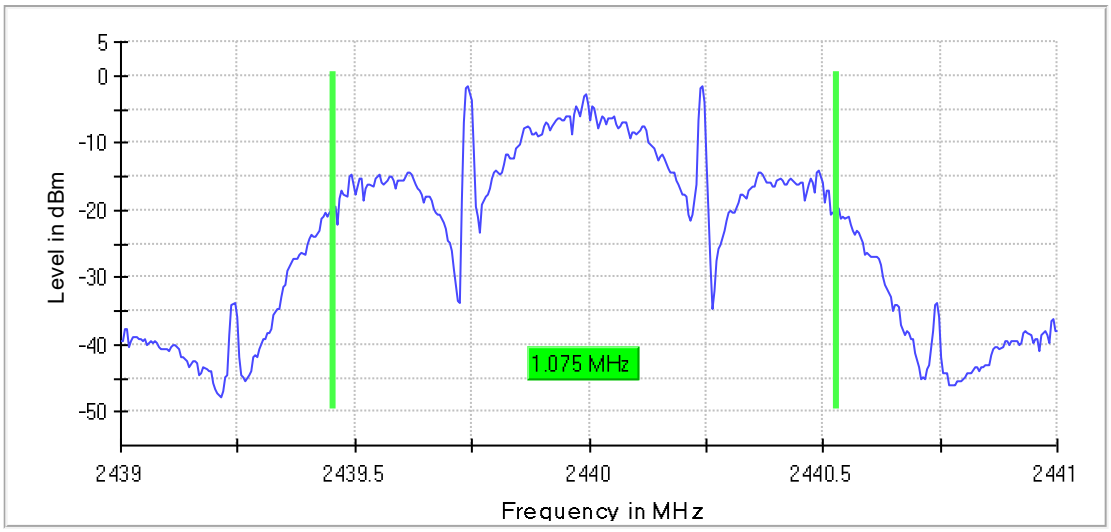
Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
1	0	2402	1.080	Within frequency range	Pass
	19	2440	1.075	Within frequency range	Pass
	39	2480	1.075	Within frequency range	Pass

99% Occupied Bandwidth

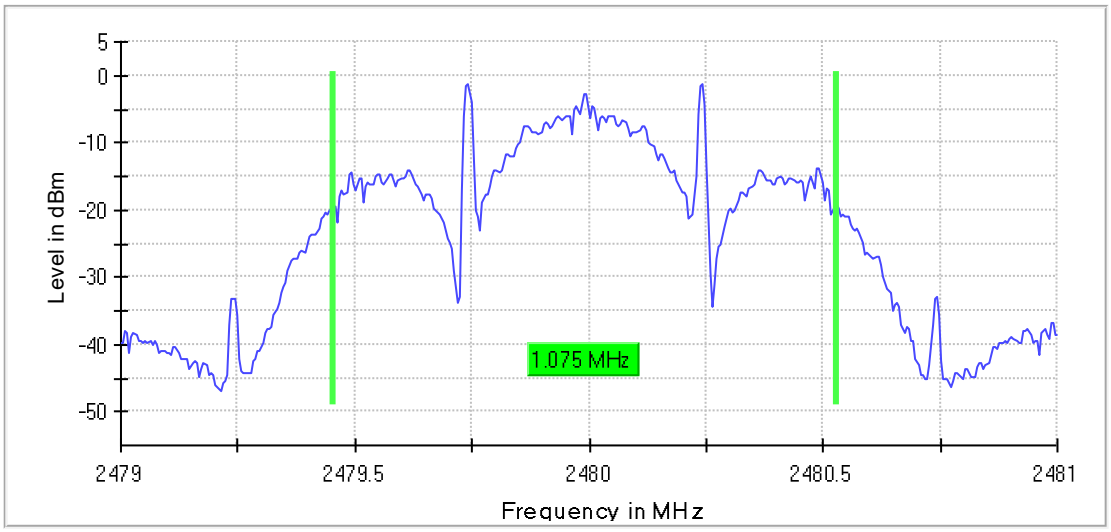
Mode 1 / CH0 (2402 MHz)



Mode 1 / CH19 (2440 MHz)



Mode 1 / CH39 (2480 MHz)

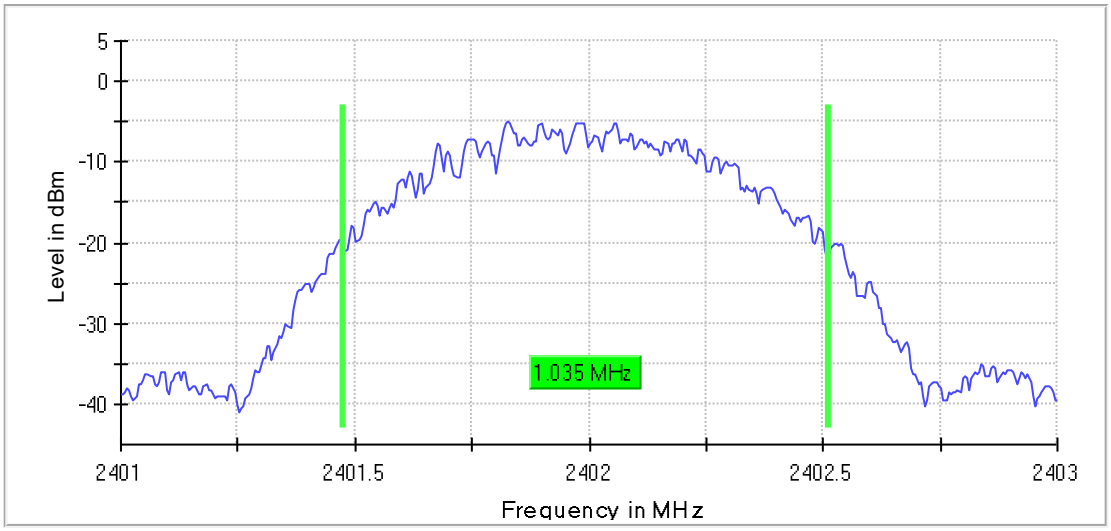


Result for 500 KHz

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
1	0	2402	1.035	Within frequency range	Pass
	19	2440	1.035	Within frequency range	Pass
	39	2480	1.040	Within frequency range	Pass

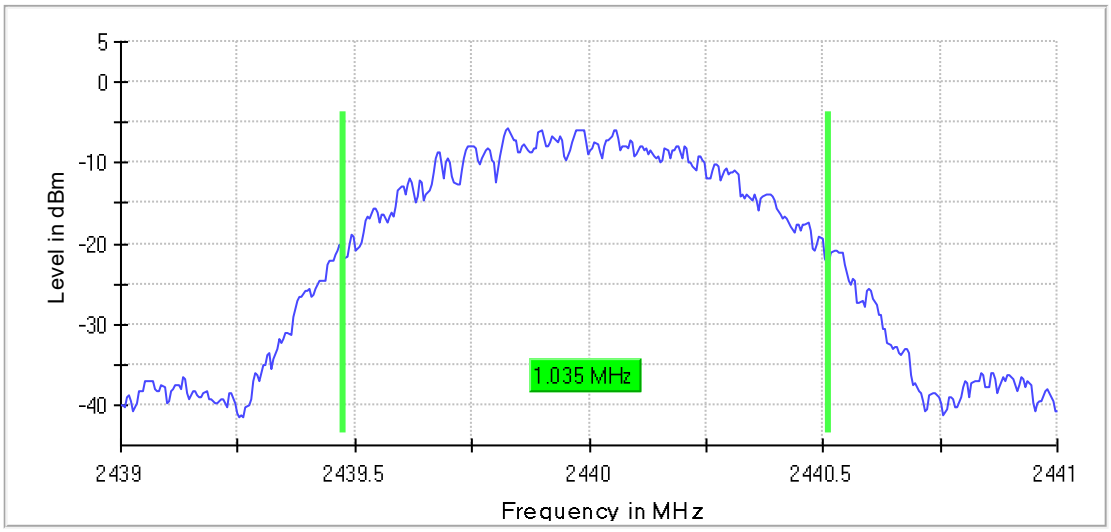
99% Occupied Bandwidth

Mode 1 / CH0 (2402 MHz)



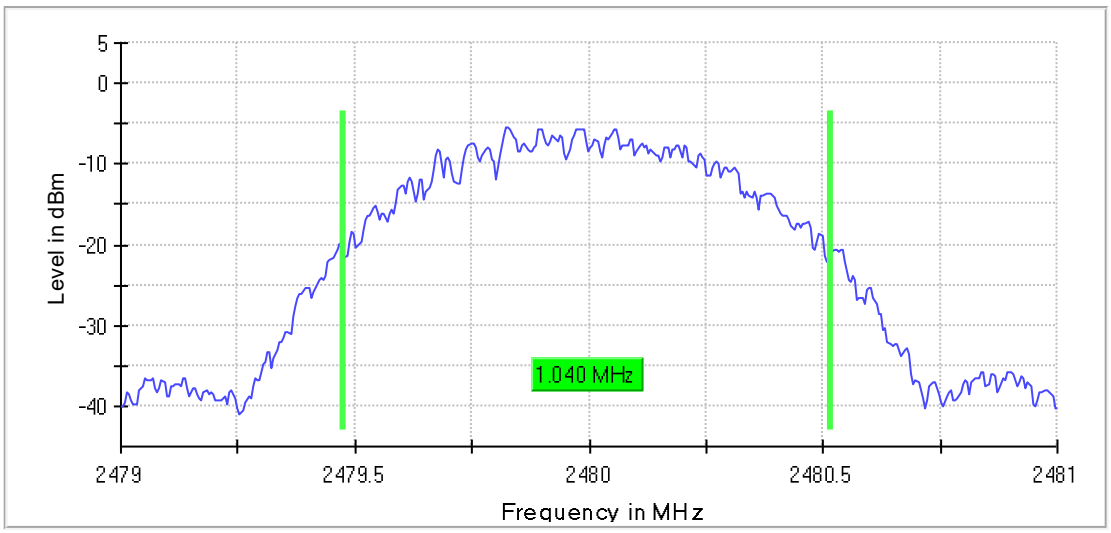
Mode 1 / CH19 (2440 MHz)

99 % Bandwidth



Mode 1 / CH39 (2480 MHz)

99 % Bandwidth

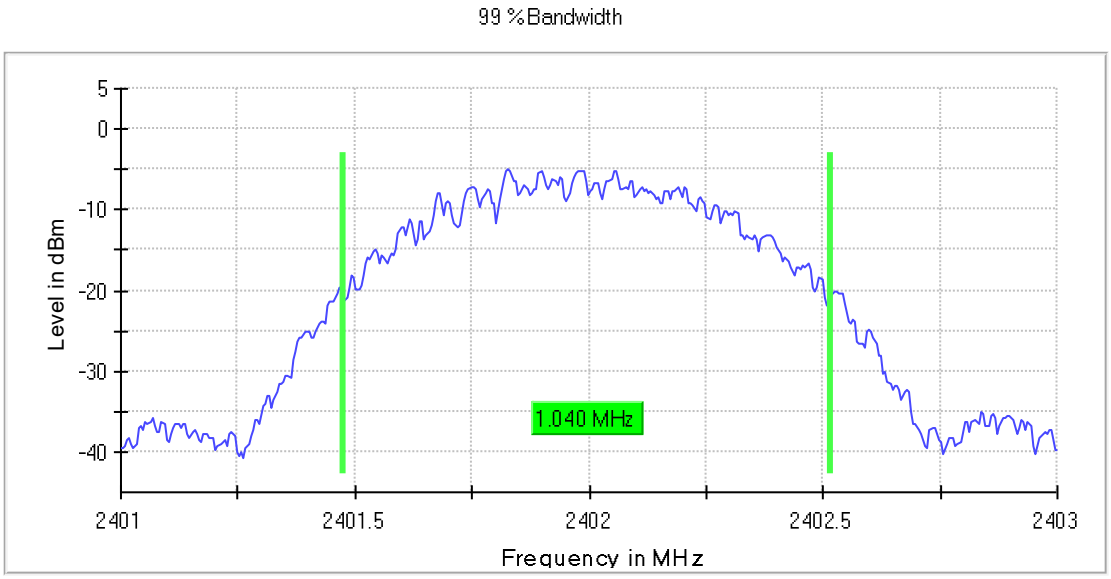


Result for 1 MHz

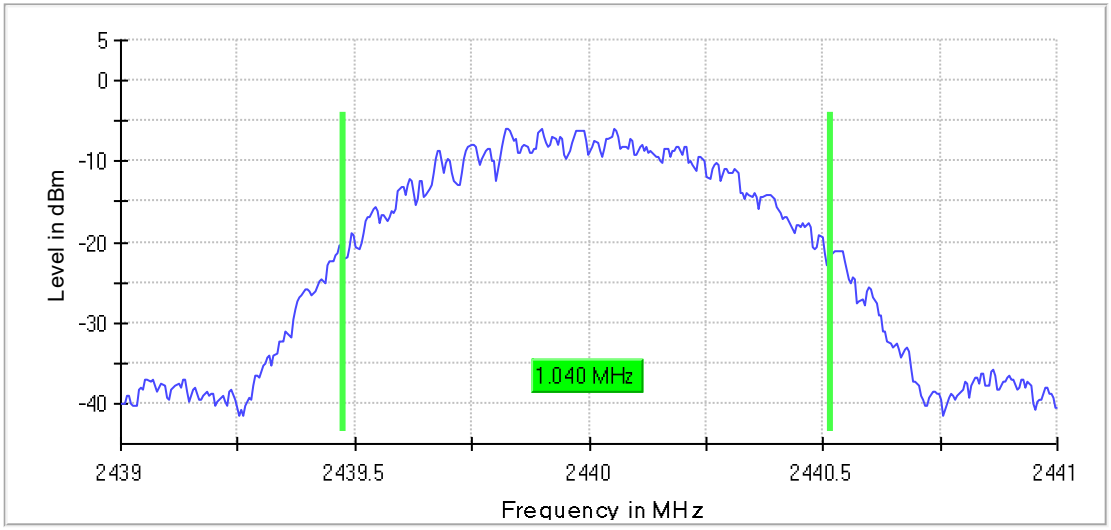
Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
1	0	2402	1.040	Within frequency range	Pass
	19	2440	1.040	Within frequency range	Pass
	39	2480	1.040	Within frequency range	Pass

99% Occupied Bandwidth

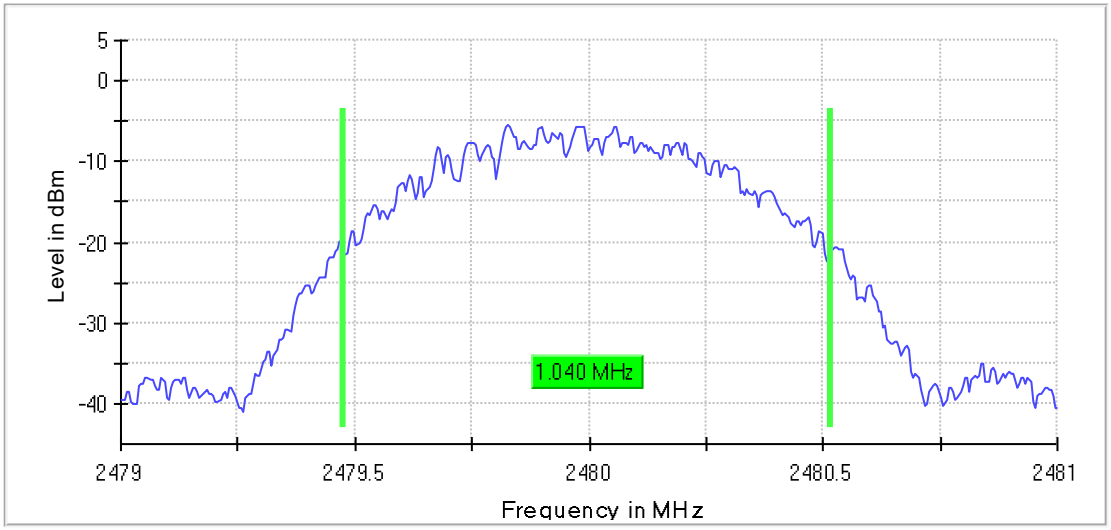
Mode 1 / CH0 (2402 MHz)



Mode 1 / CH19 (2440 MHz)



Mode 1 / CH39 (2480 MHz)

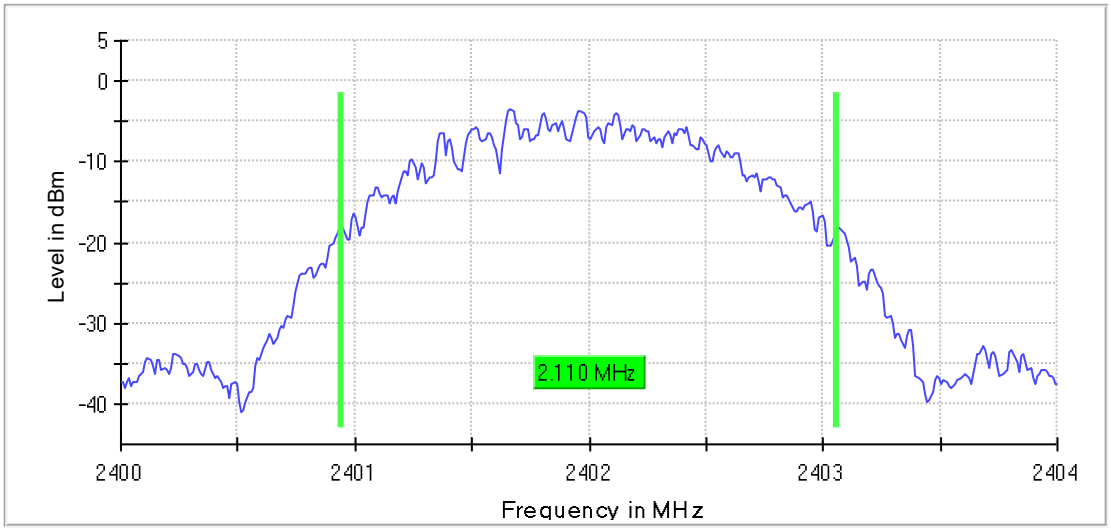


Result for 2 MHz

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
1	0	2402	2.110	Within frequency range	Pass
	19	2440	2.110	Within frequency range	Pass
	39	2480	2.100	Within frequency range	Pass

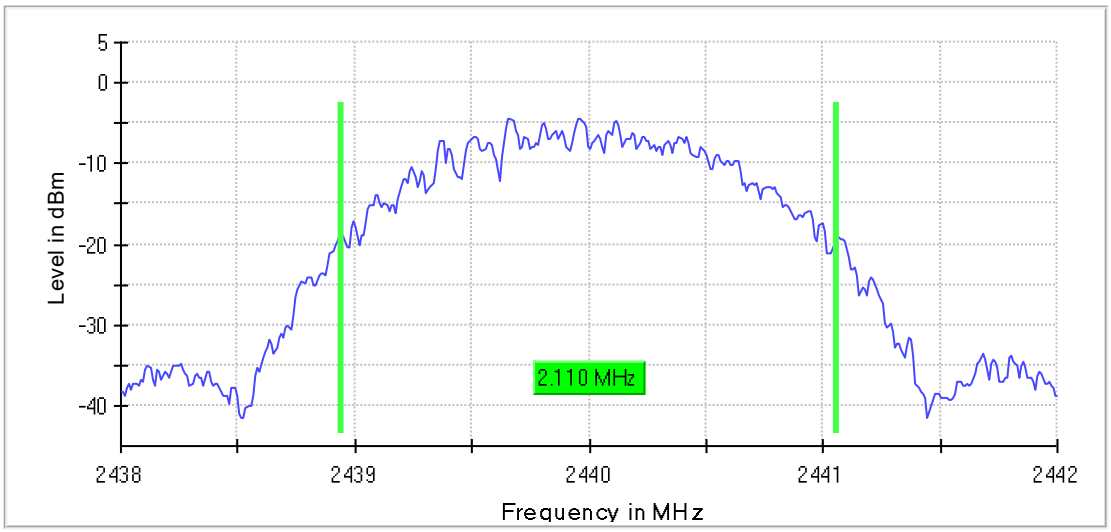
99% Occupied Bandwidth

Mode 1 / CH0 (2402 MHz)



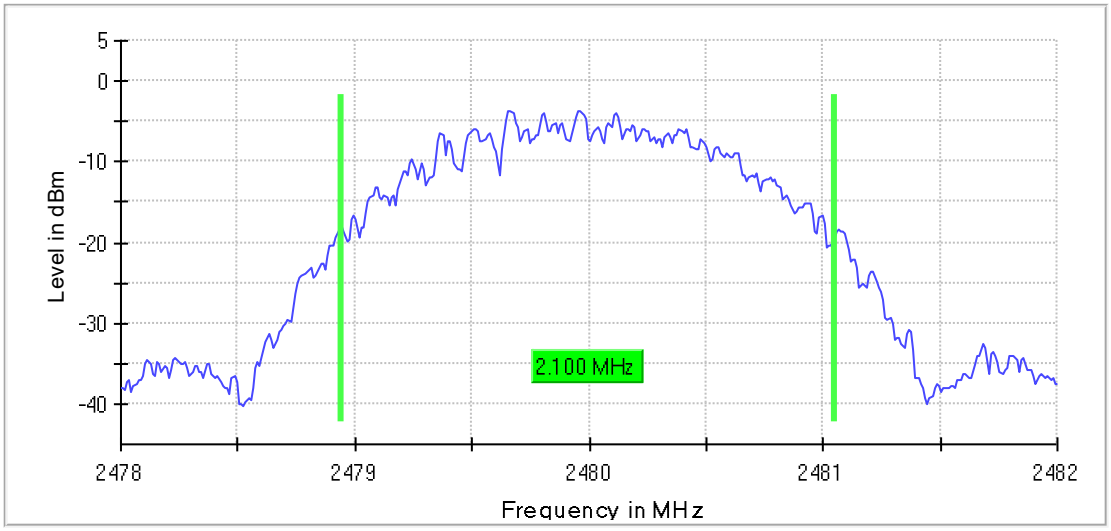
Mode 1 / CH19 (2440 MHz)

99 % Bandwidth



Mode 1 / CH39 (2480 MHz)

99 % Bandwidth

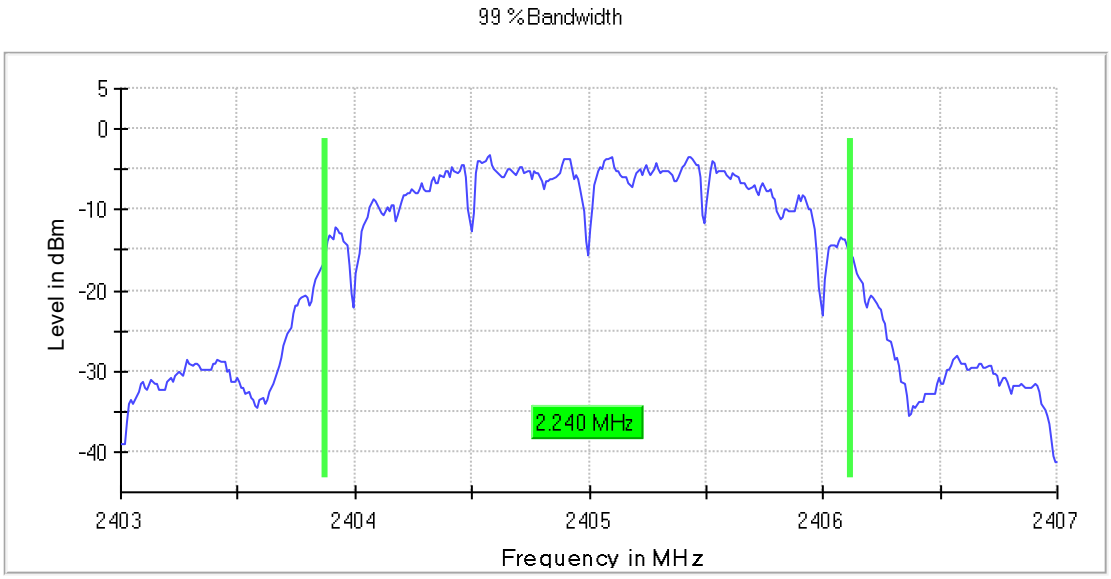


Result

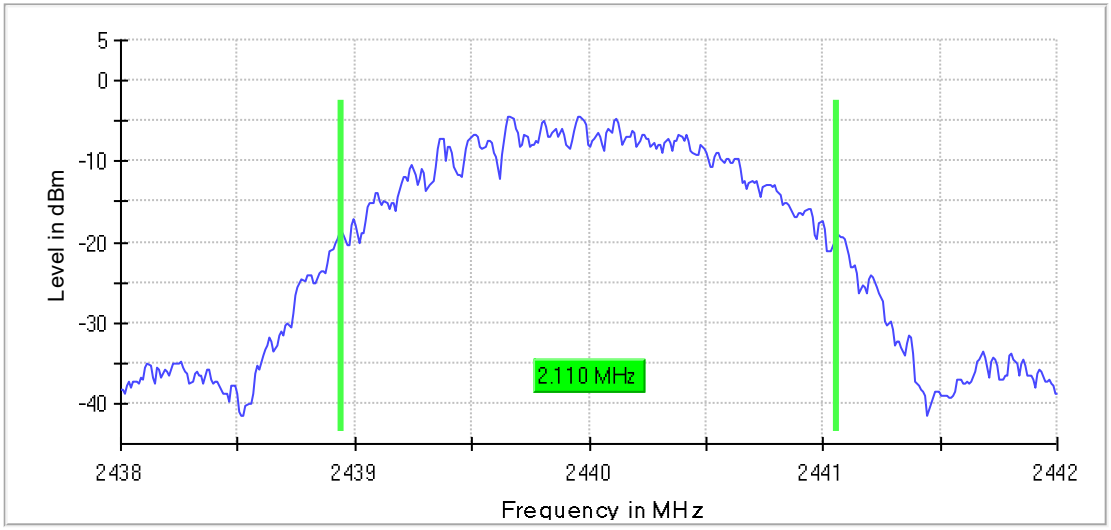
Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
2	11	2405	2.240	Within frequency range	Pass
	20	2450	2.110	Within frequency range	Pass
	26	2480	2.230	Within frequency range	Pass

99% Occupied Bandwidth

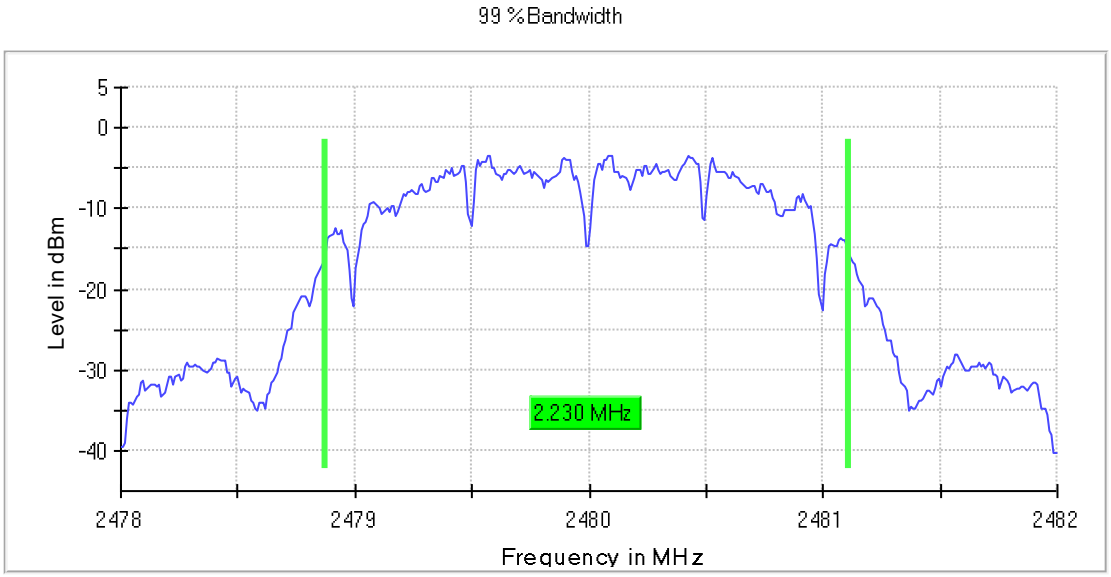
Mode 2 / CH11 (2405 MHz)



Mode 2 / CH20 (2450 MHz)



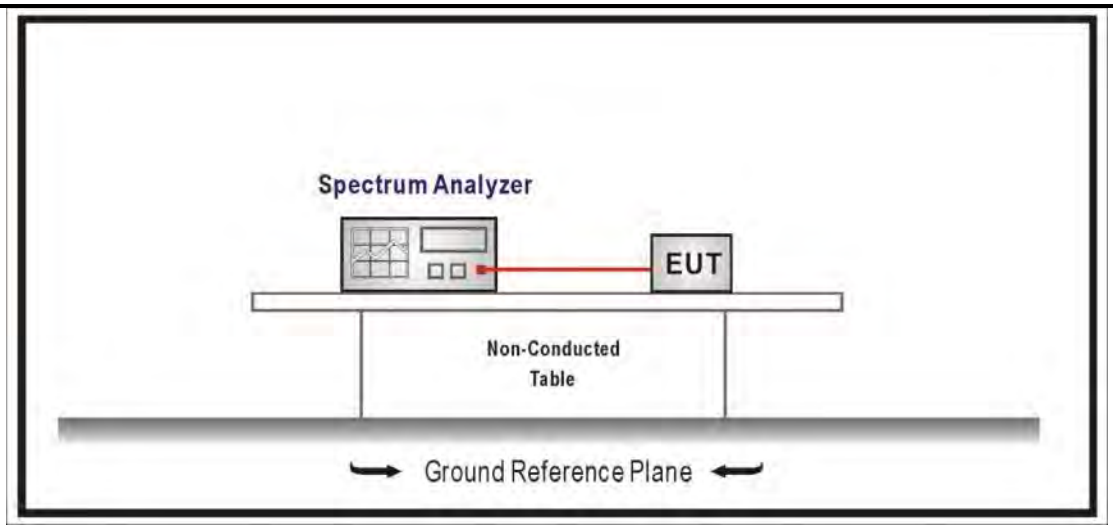
Mode 2 / CH26 (2480 MHz)



4.7	Fundamental emission output power	VERDICT: PASS

Standard			FCC Part 15 Subpart C Paragraph 15.247 (b)(3)
☒	GTX ＜6dBi		Pout≤30dBm
☐	GTX ＞6dBi		
	☐	Non-Fix point-point	Pout≤30-(GTX -6)
	☐	Fix point-point	Pout≤30-[(GTX-6)]/3
	☐	Point-to-multipoint	Pout≤30-(GTX-6)
	☐	Overlap Beams	Pout≤30-[(GTX-6)]/3
	☐	Aggregate power transmitted simultaneously on all beams	Pout≤30-[(GTX-6)]/3
	☐	singby LE directional beam	Pout≤30-[(GTX-6)]/3+8dB
Note 1 : GTX directional gain of transmitting antennas. Note 2 : Pout is maximum peak conducted output power .			

Test Configuration



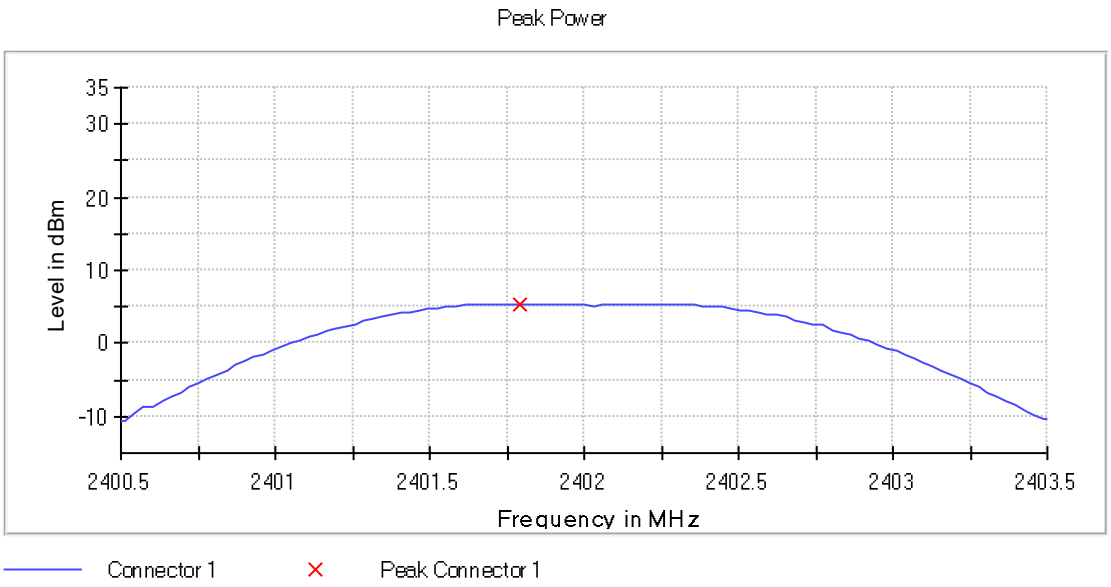
Performed measurements

Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, 2	
Remark	---	

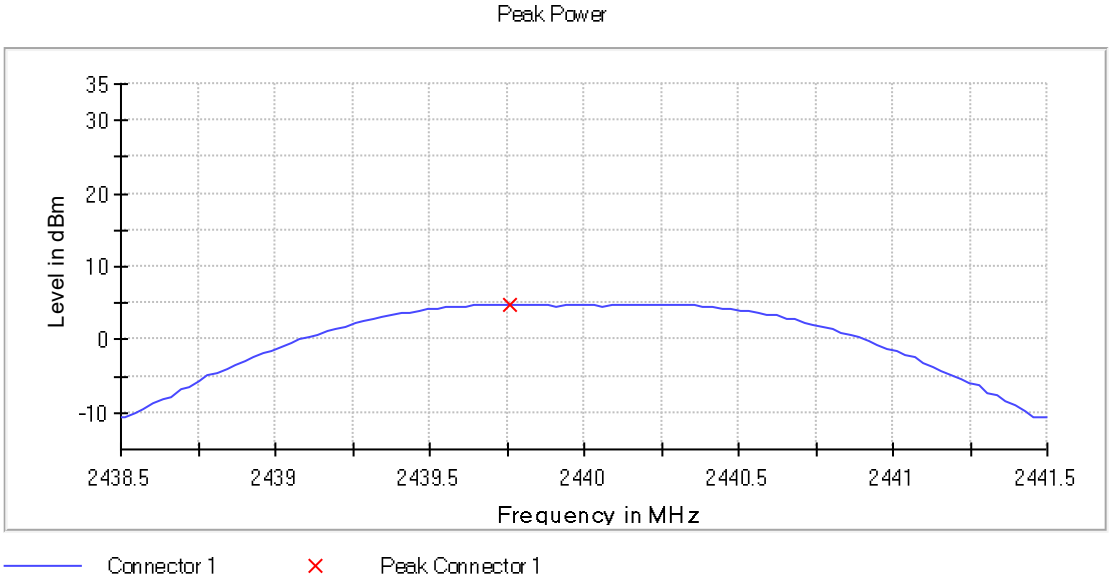
Results for 125 KHz

Mode	Channel	Test Frequency (MHz)	Power Output (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
BLE	0	2402	5.4	≤30	7.62	≤36	Pass
	19	2440	4.8	≤30	7.02	≤36	Pass
	39	2480	5.1	≤30	7.32	≤36	Pass

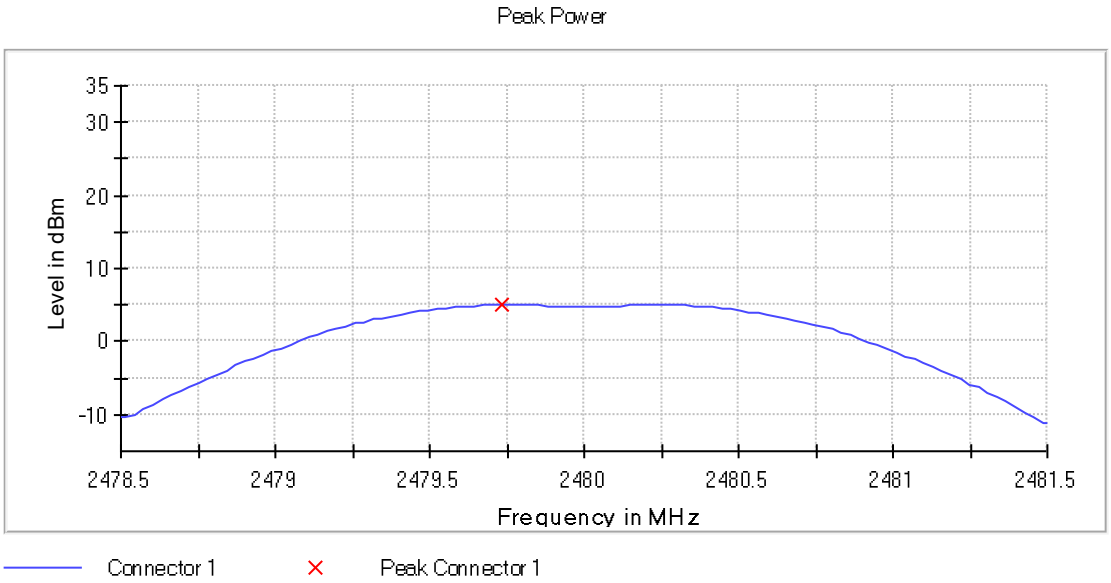
Data of 2402MHz



Data of 2440MHz



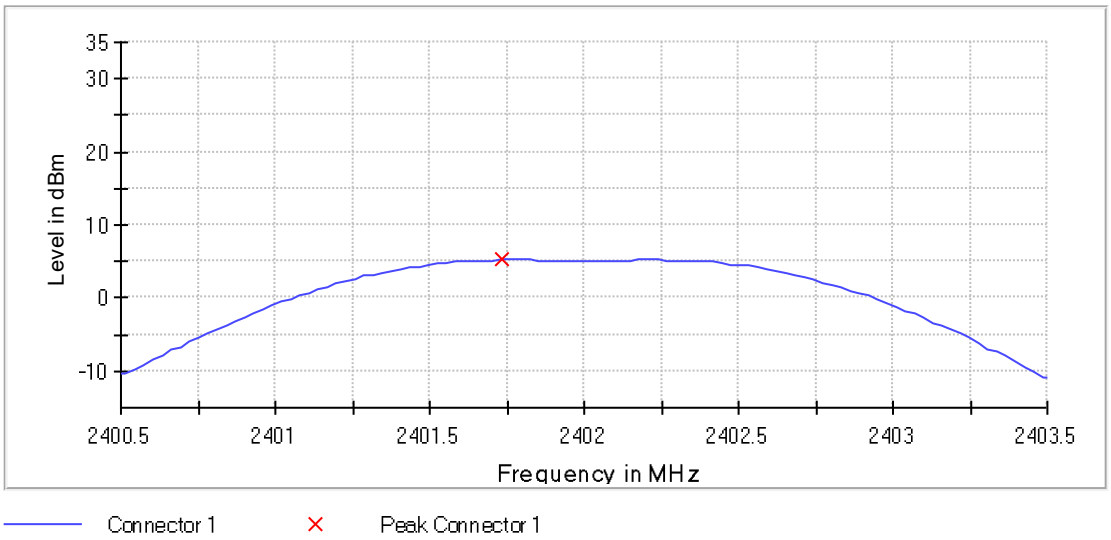
Data of 2480MHz



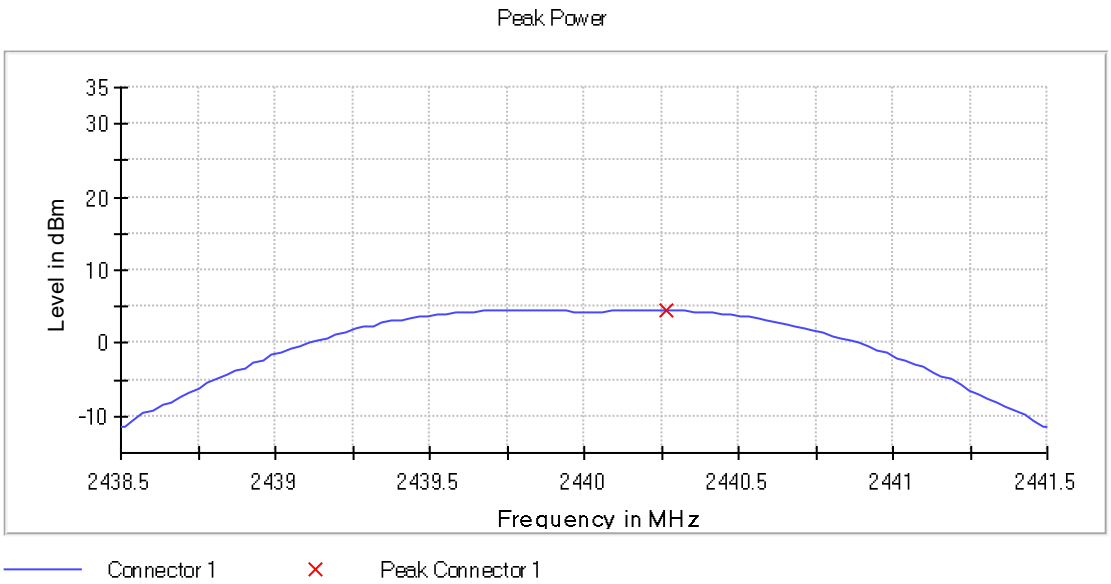
Results for 500 KHz

Mode	Channel	Test Frequency (MHz)	Power Output (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
BLE	0	2402	5.4	≤30	7.62	≤36	Pass
	19	2440	4.5	≤30	6.72	≤36	Pass
	39	2480	4.9	≤30	7.12	≤36	Pass

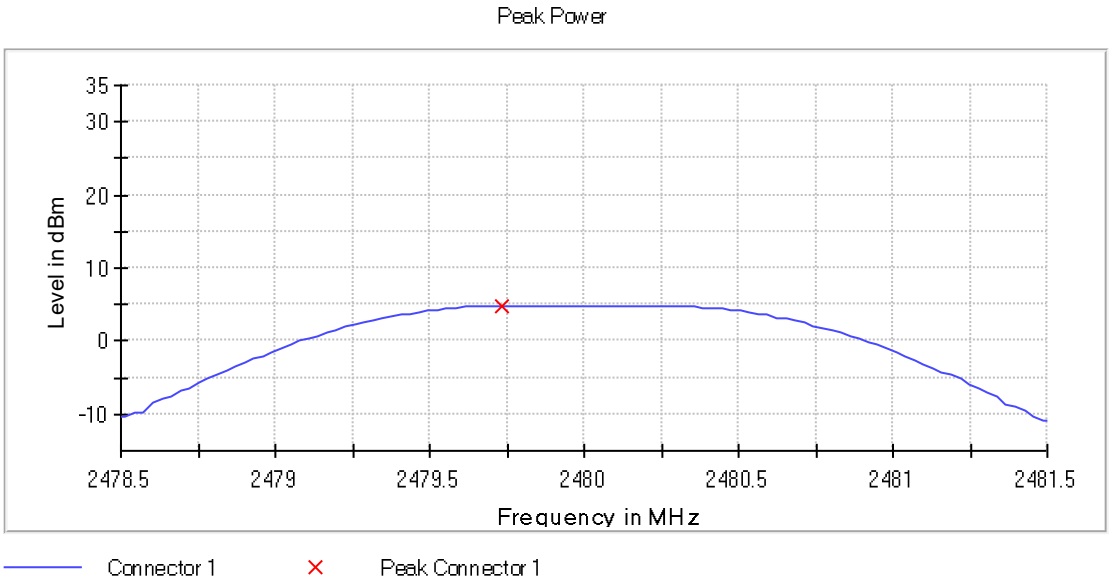
Data of 2402MHz



Data of 2440MHz



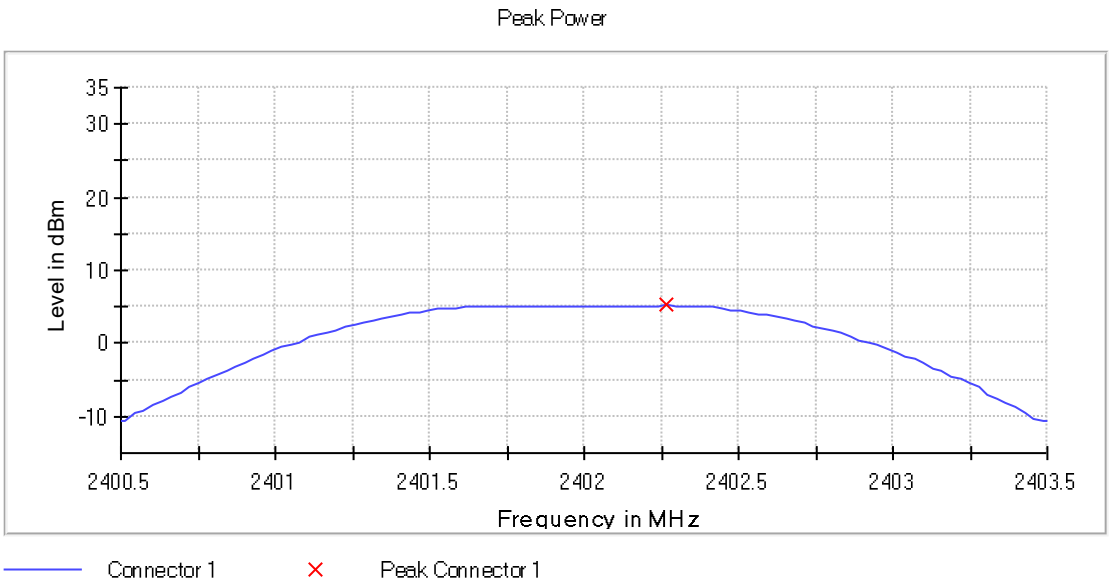
Data of 2480MHz



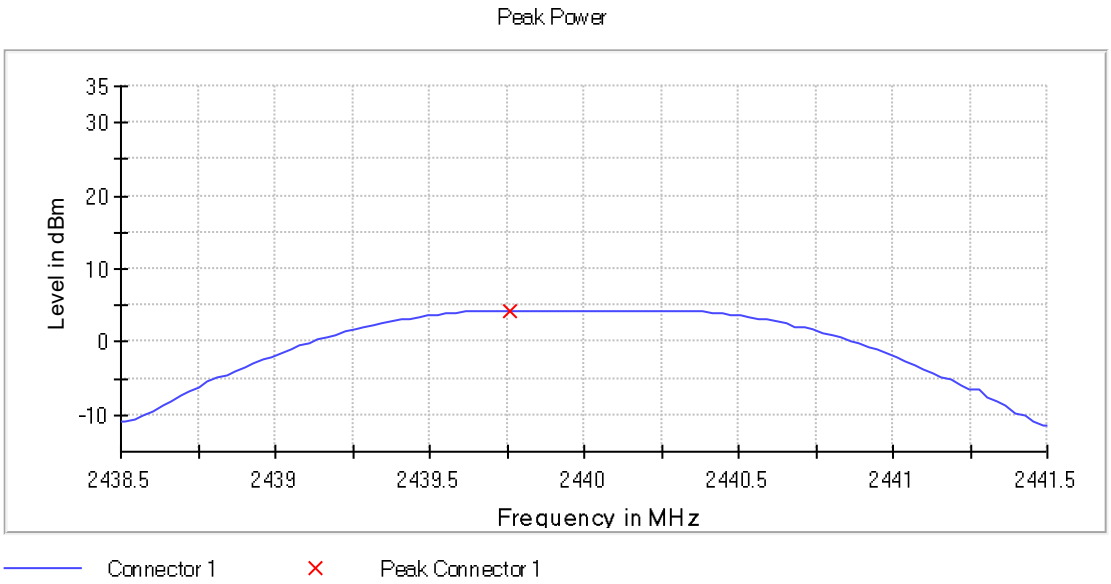
Results for 1 MHz

Mode	Channel	Test Frequency (MHz)	Power Output (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
BLE	0	2402	5.2	≤30	7.42	≤36	Pass
	19	2440	4.3	≤30	6.52	≤36	Pass
	39	2480	4.7	≤30	6.92	≤36	Pass

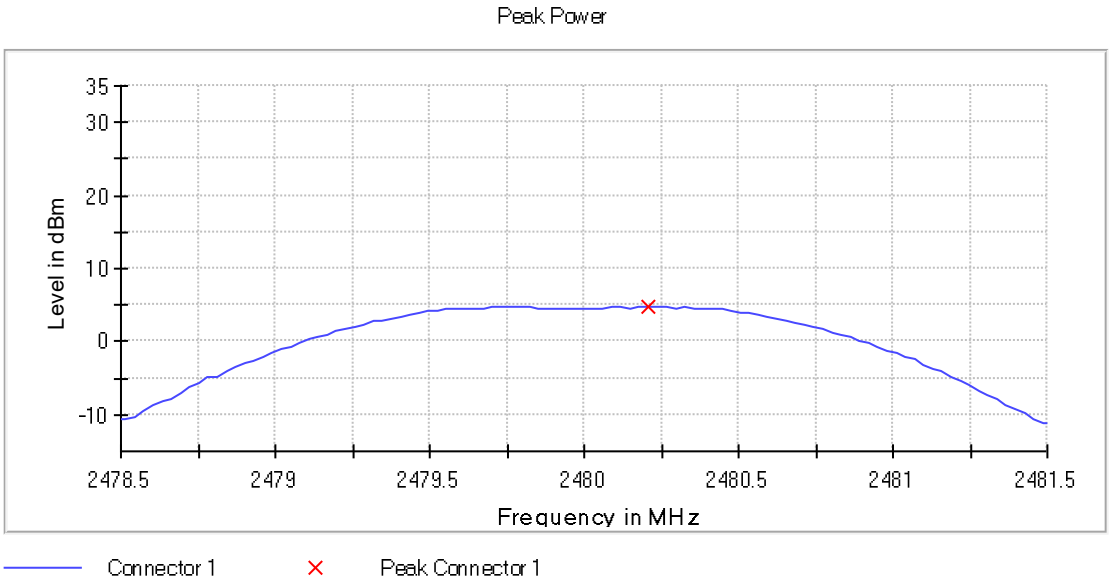
Data of 2402MHz



Data of 2440MHz



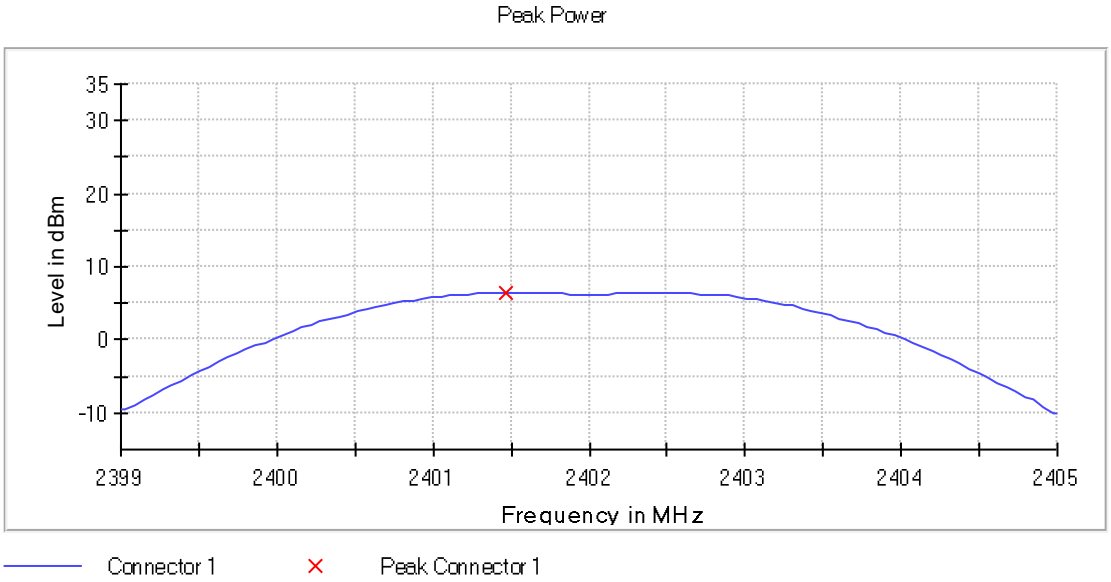
Data of 2480MHz



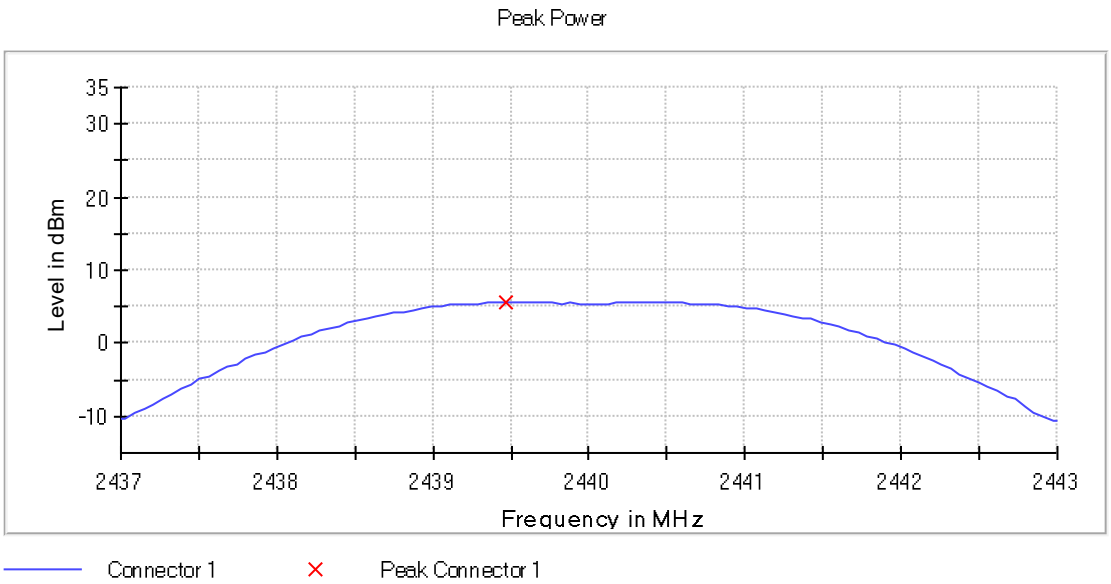
Results for 2 MHz

Mode	Channel	Test Frequency (MHz)	Power Output (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
BLE	0	2402	6.4	≤30	8.62	≤36	Pass
	19	2440	5.6	≤30	7.82	≤36	Pass
	39	2480	6.3	≤30	8.52	≤36	Pass

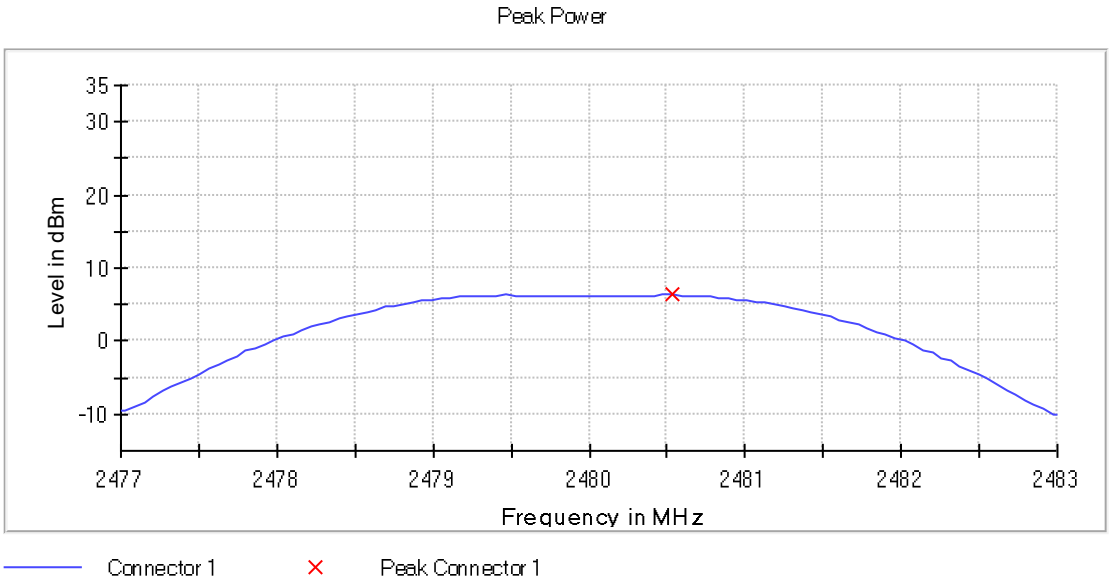
Data of 2402MHz



Data of 2440MHz



Data of 2480MHz

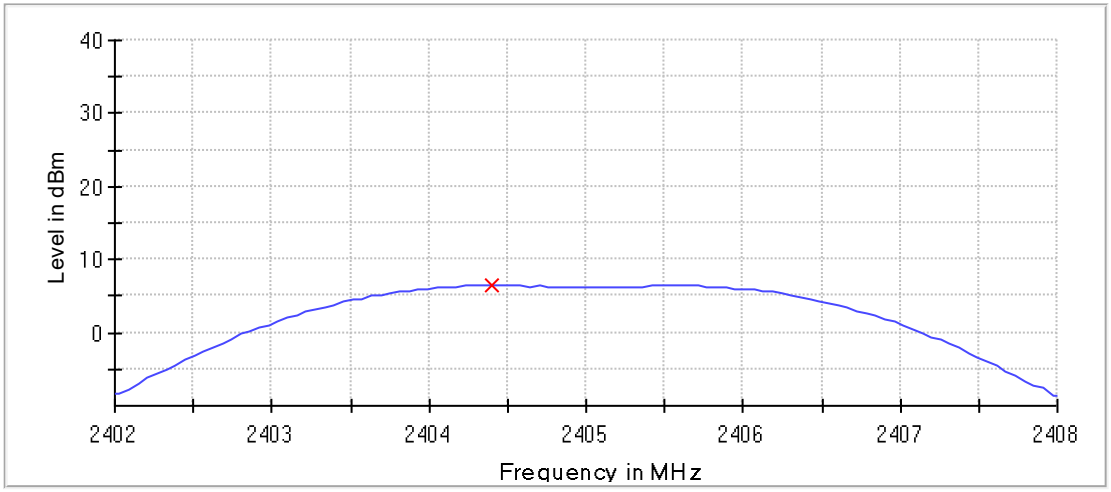


Results

Mode	Channel	Test Frequency (MHz)	Power Output (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
Zigbee	11	2405	6.5	≤30	8.72	≤36	Pass
	20	2450	5.7	≤30	7.92	≤36	Pass
	26	2480	6.3	≤30	8.52	≤36	Pass

Data of 2405MHz

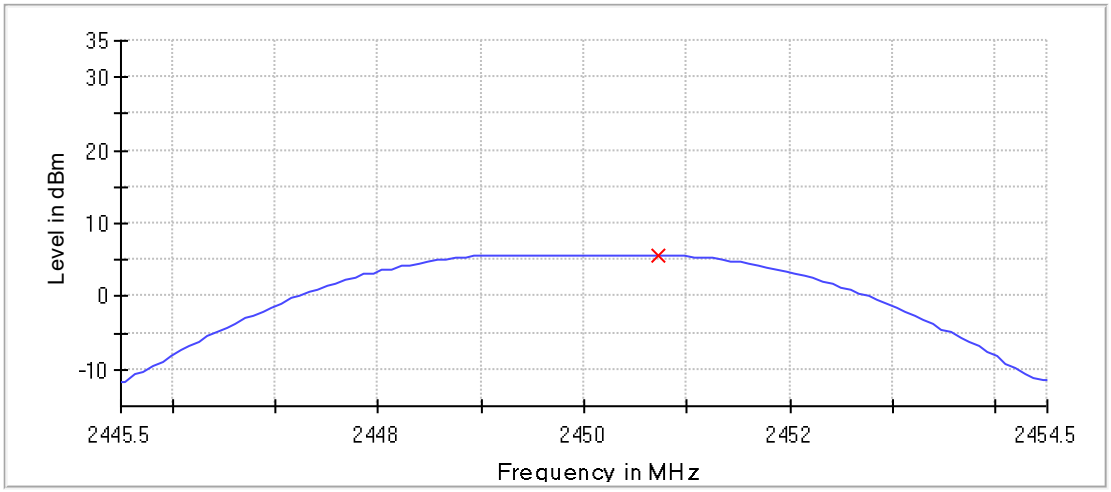
Peak Power



Connector 1 × Peak Connector 1

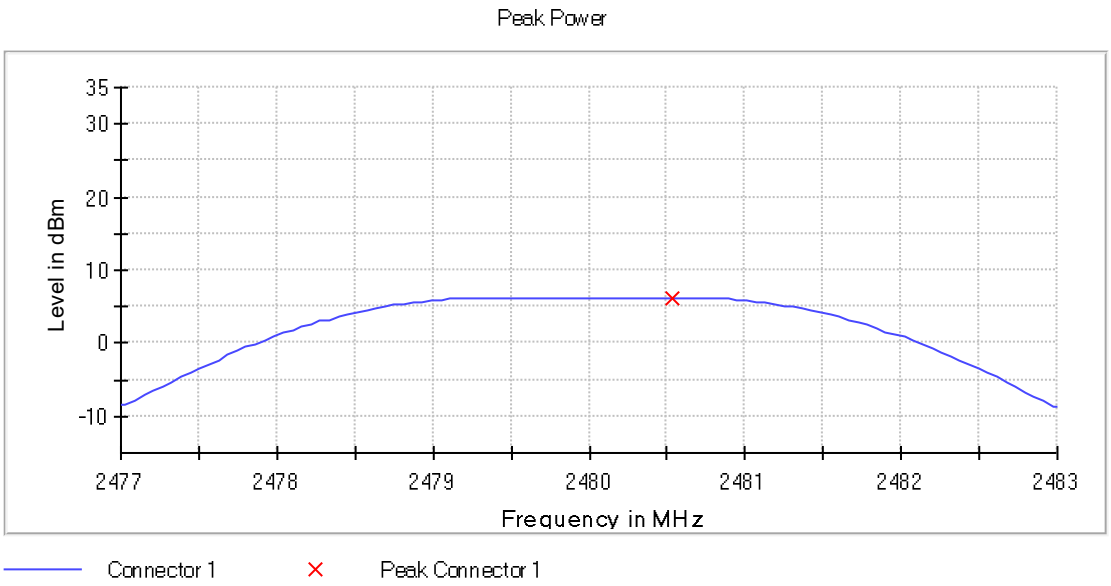
Data of 2450MHz

Peak Power



Connector 1 × Peak Connector 1

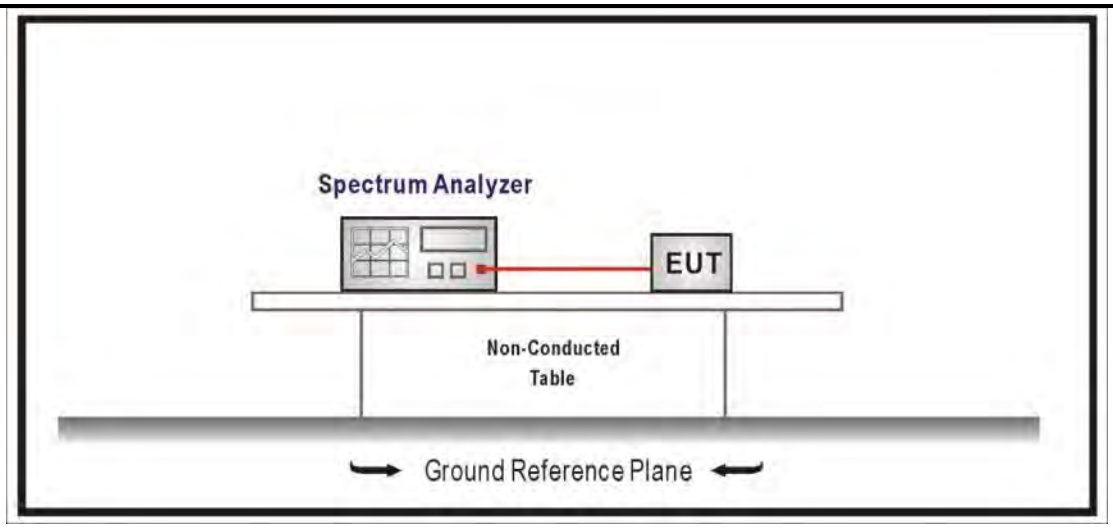
Data of 2480MHz



4.8	Power Density	VERDICT: PASS

Standard	FCC Part 15 Subpart C Paragraph 15.247 (b)(3)
Power Spectral Density≤8dBm/3kHz	

Test Configuration



Performed measurements

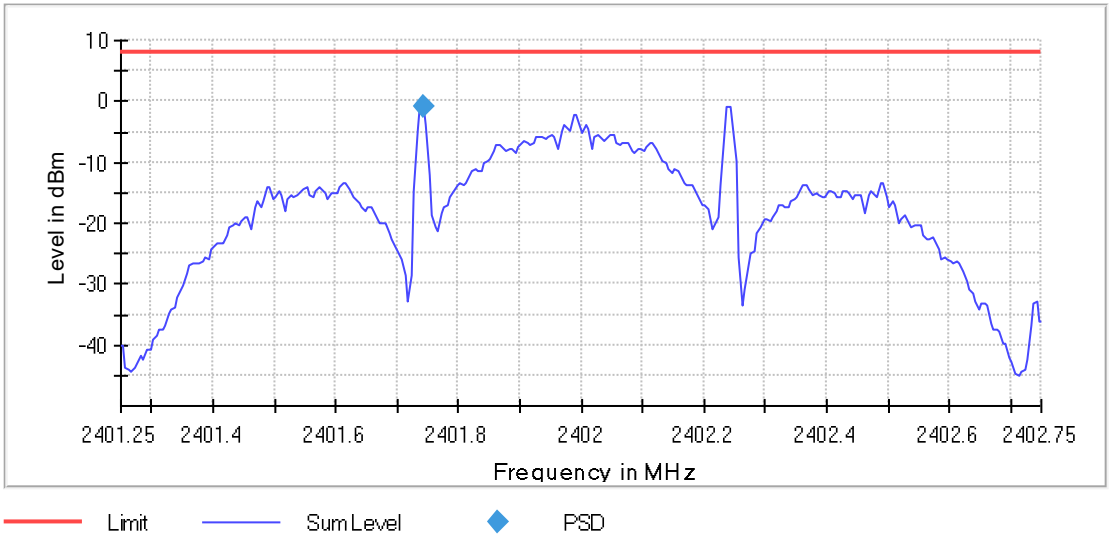
Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, 2	
Remark	---	

Results for 125 KHz

Mode	Channel	Test Frequency (MHz)	PSD (dBm)	Limit (dBm/3kHz)	Result
1	0	2402	-0.883	≤8	Pass
	19	2440	-1.429	≤8	Pass
	39	2480	-1.248	≤8	Pass

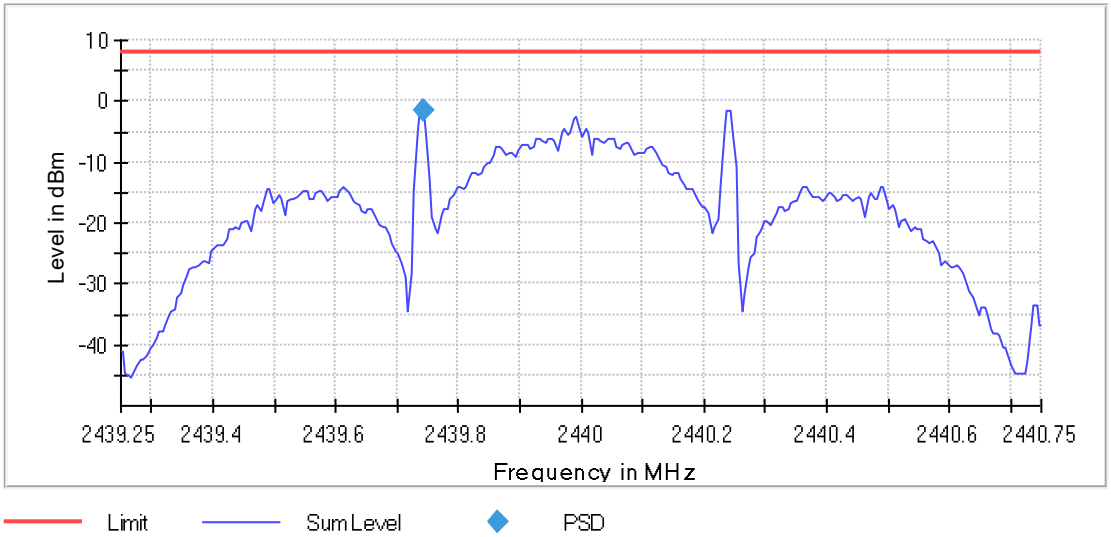
Data of 2402MHz

Peak Power Spectral Density

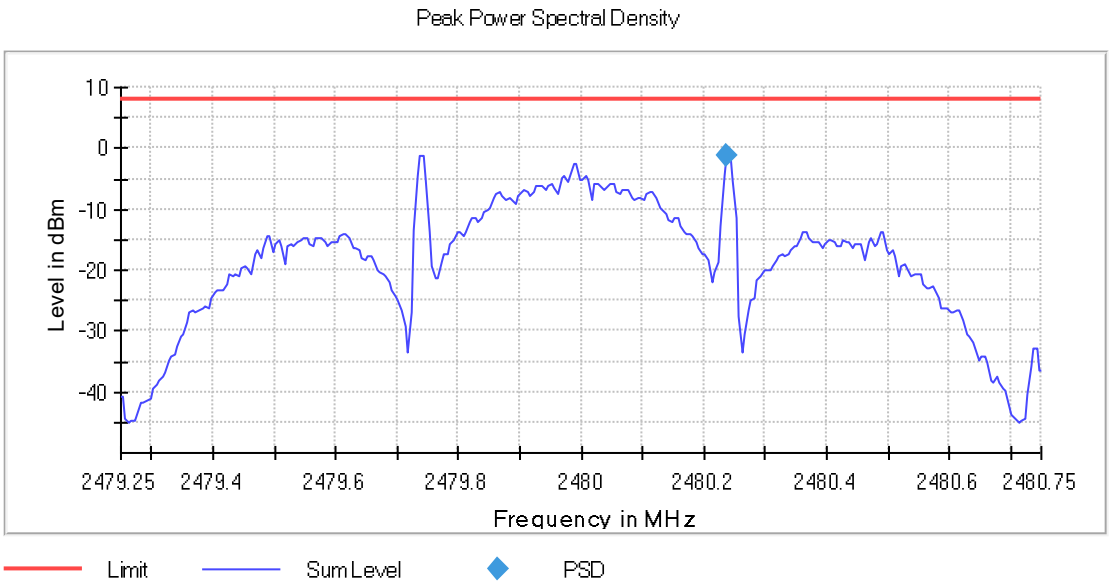


Data of 2440MHz

Peak Power Spectral Density



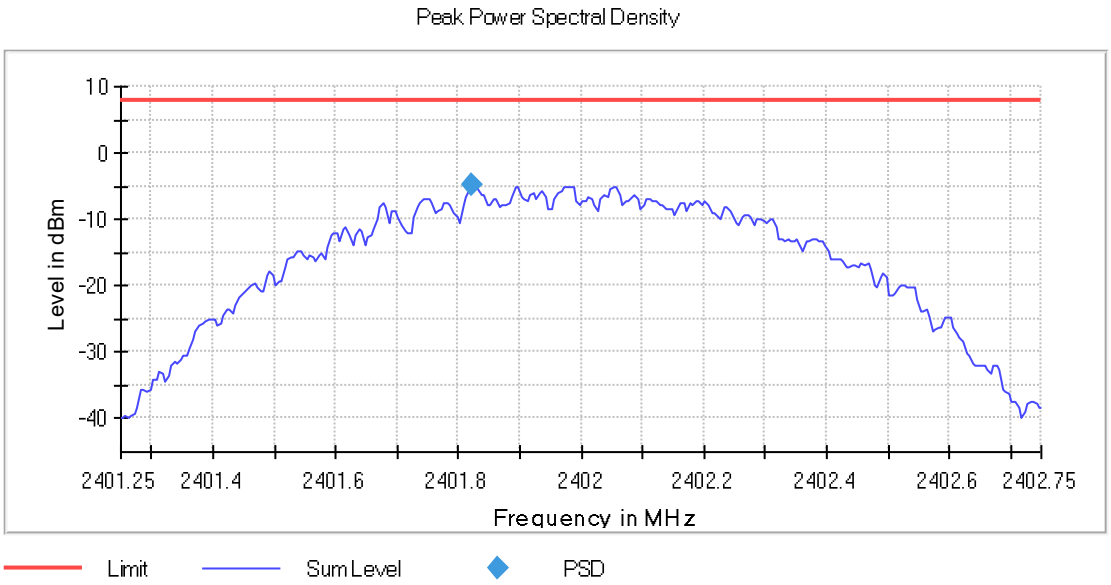
Data of 2480MHz



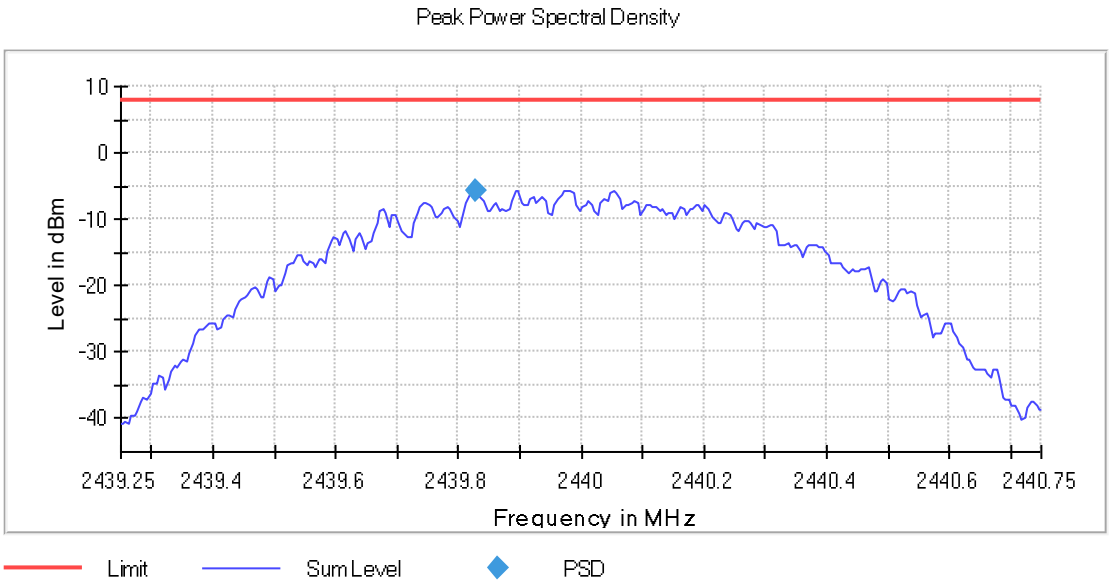
Results for 500 KHz

Mode	Channel	Test Frequency (MHz)	PSD (dBm)	Limit (dBm/3kHz)	Result
1	0	2402	-4.829	≤8	Pass
	19	2440	-5.590	≤8	Pass
	39	2480	-5.215	≤8	Pass

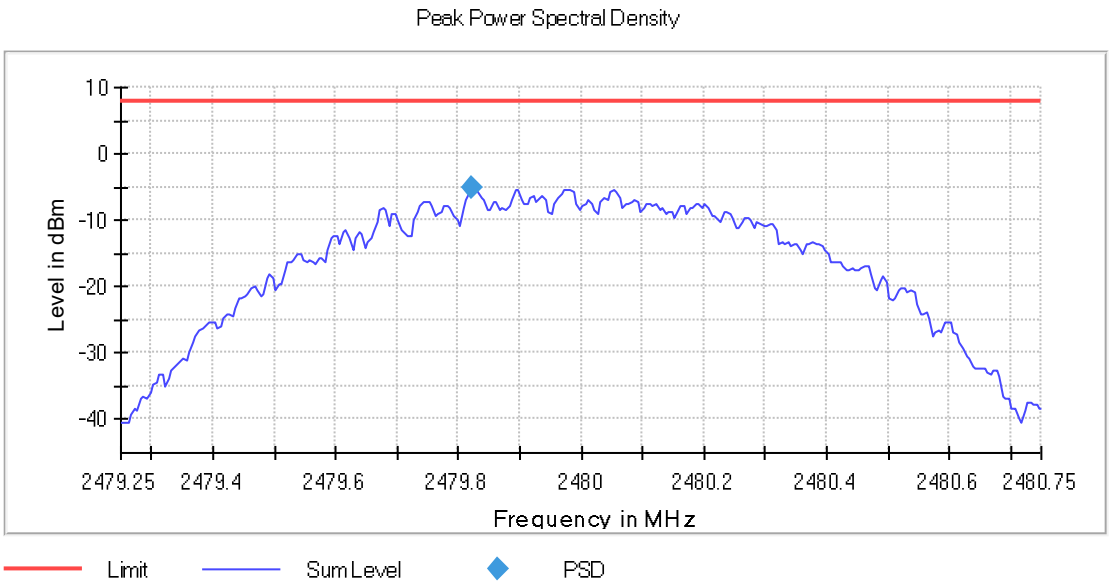
Data of 2402MHz



Data of 2440MHz



Data of 2480MHz

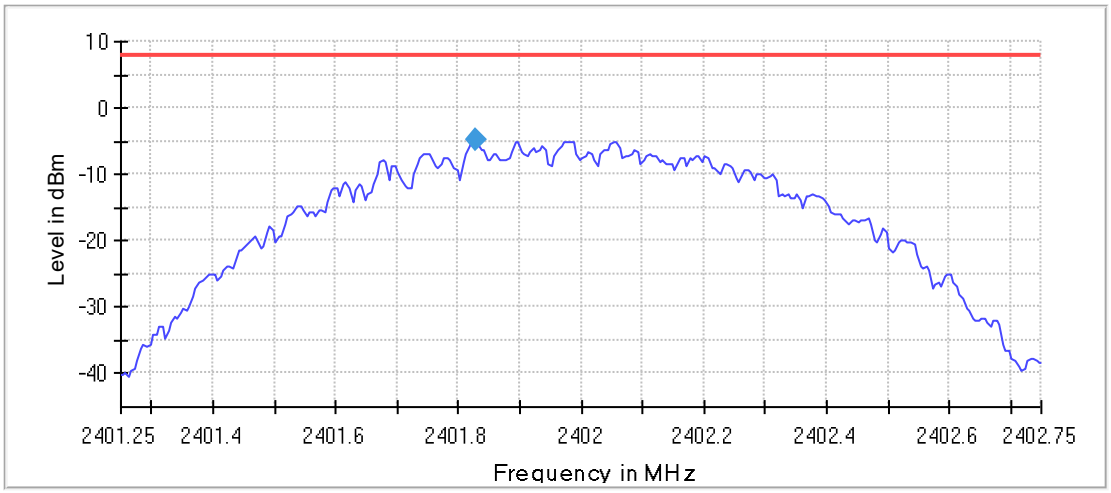


Results for 1 MHz

Mode	Channel	Test Frequency (MHz)	PSD (dBm)	Limit (dBm/3kHz)	Result
1	0	2402	-4.885	≤8	Pass
	19	2440	-5.719	≤8	Pass
	39	2480	-5.303	≤8	Pass

Data of 2402MHz

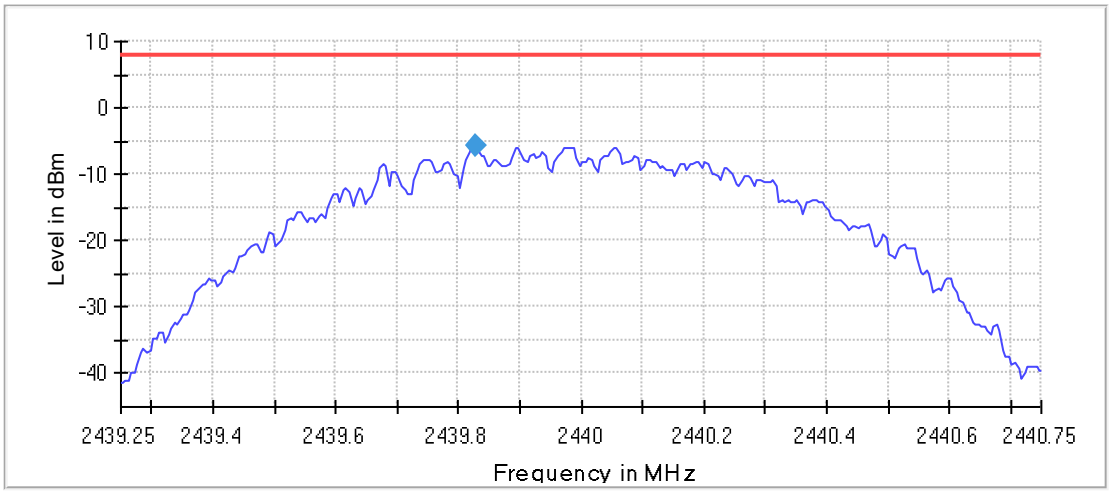
Peak Power Spectral Density



Limit Sum Level PSD

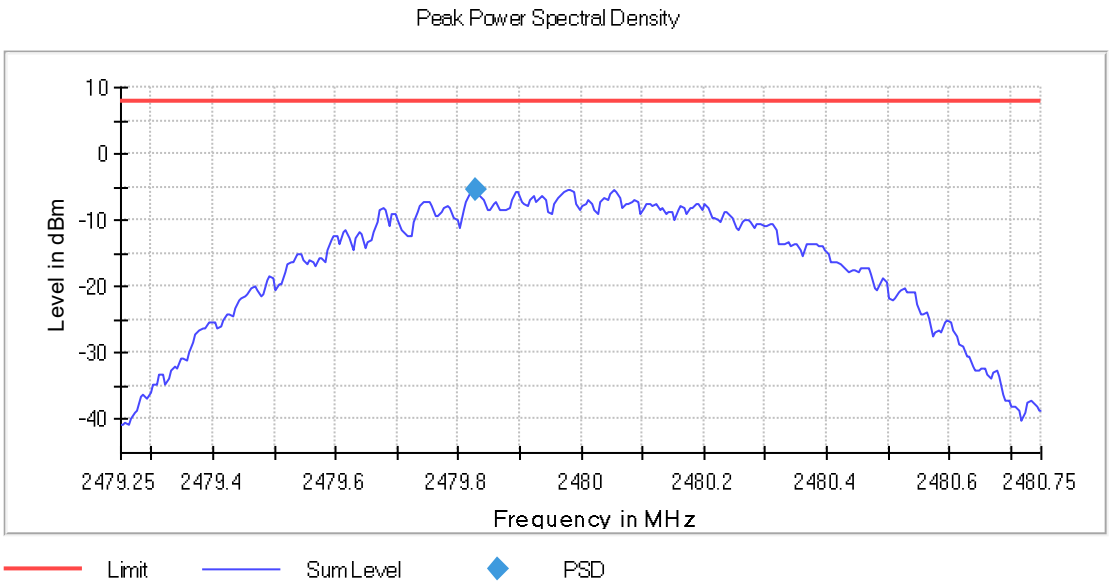
Data of 2440MHz

Peak Power Spectral Density



Limit Sum Level PSD

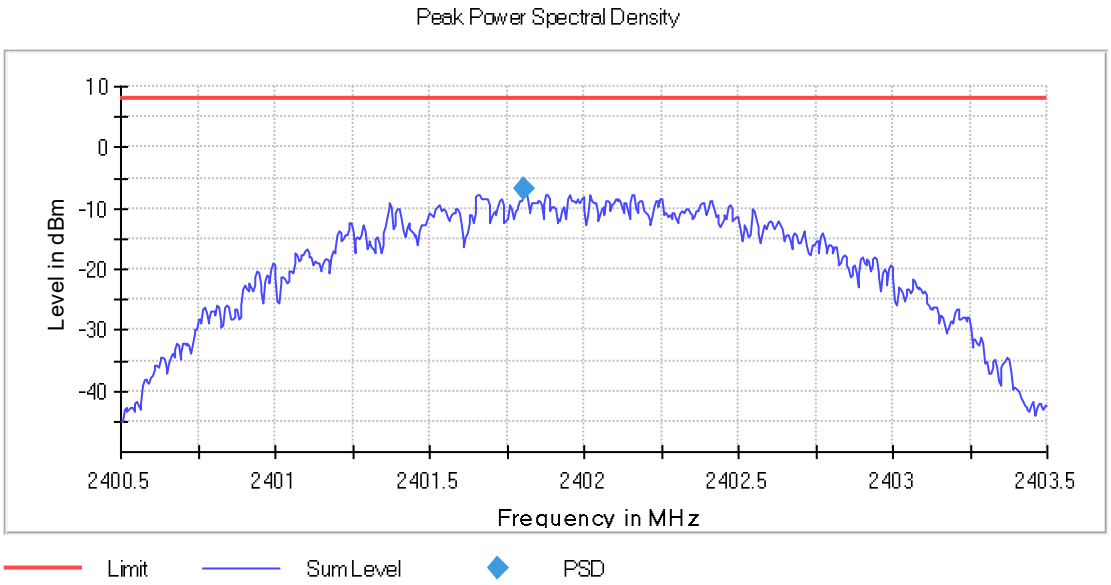
Data of 2480MHz



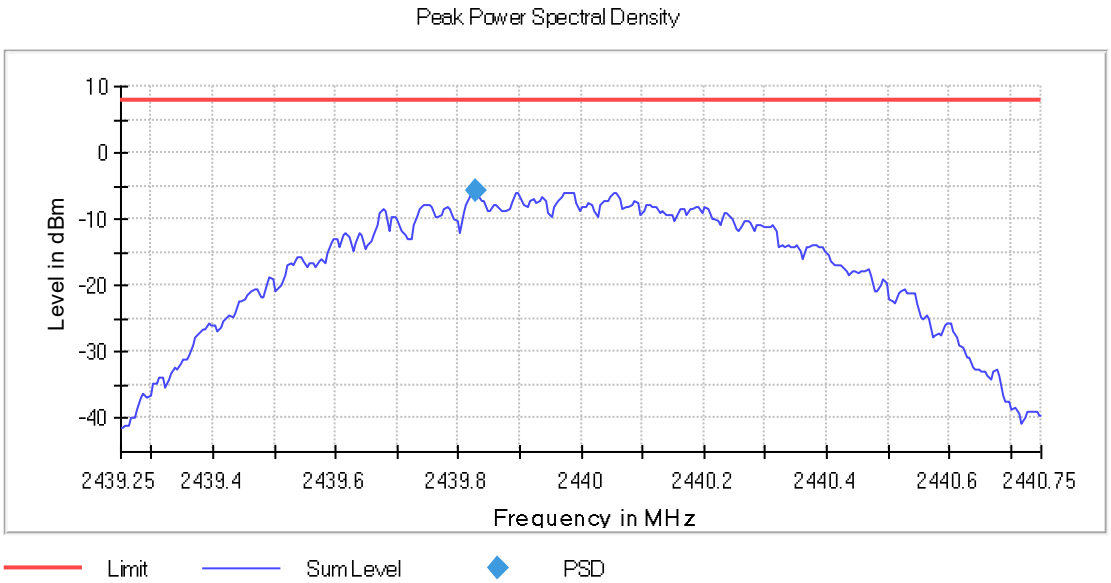
Results for 2 MHz

Mode	Channel	Test Frequency (MHz)	PSD (dBm)	Limit (dBm/3kHz)	Result
1	0	2402	-6.823	≤8	Pass
	19	2440	-5.719	≤8	Pass
	39	2480	-6.883	≤8	Pass

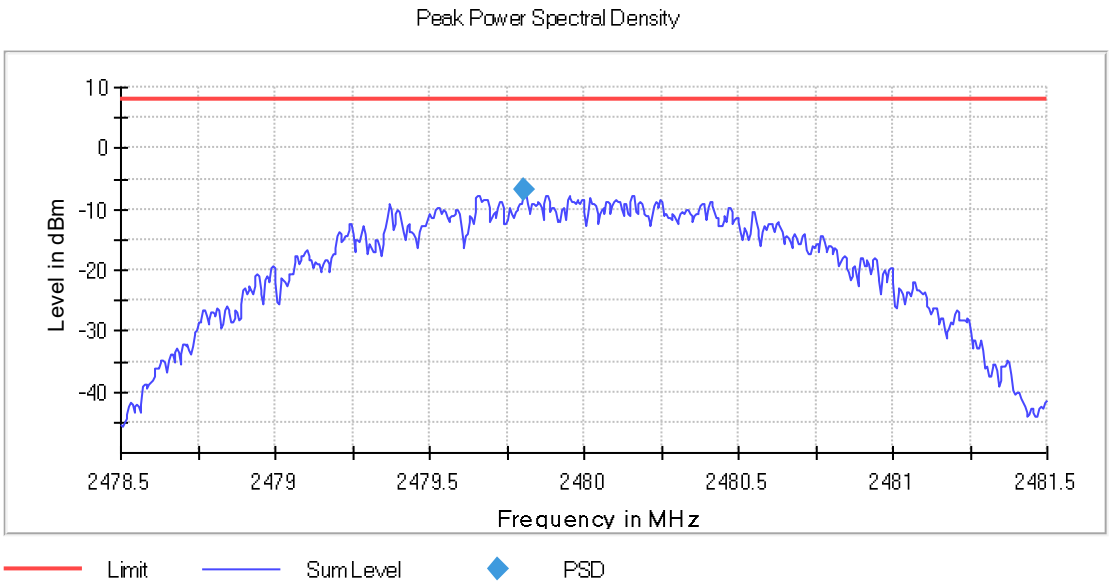
Data of 2402MHz



Data of 2440MHz



Data of 2480MHz

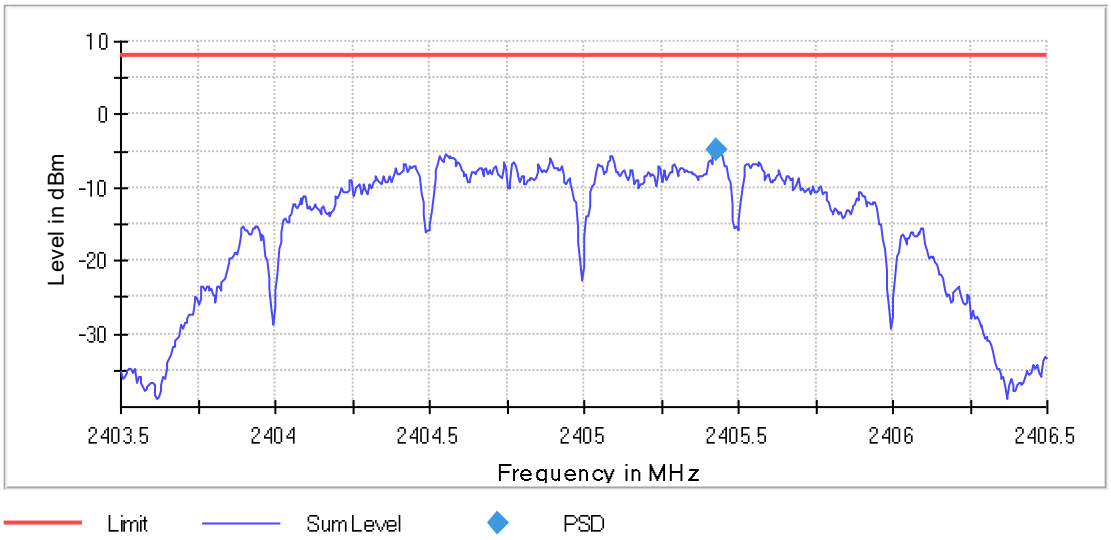


Results for 2 MHz

Mode	Channel	Test Frequency (MHz)	PSD (dBm)	Limit (dBm/3kHz)	Result
2	11	2405	-4.815	≤8	Pass
	20	2450	-5.482	≤8	Pass
	26	2480	-4.954	≤8	Pass

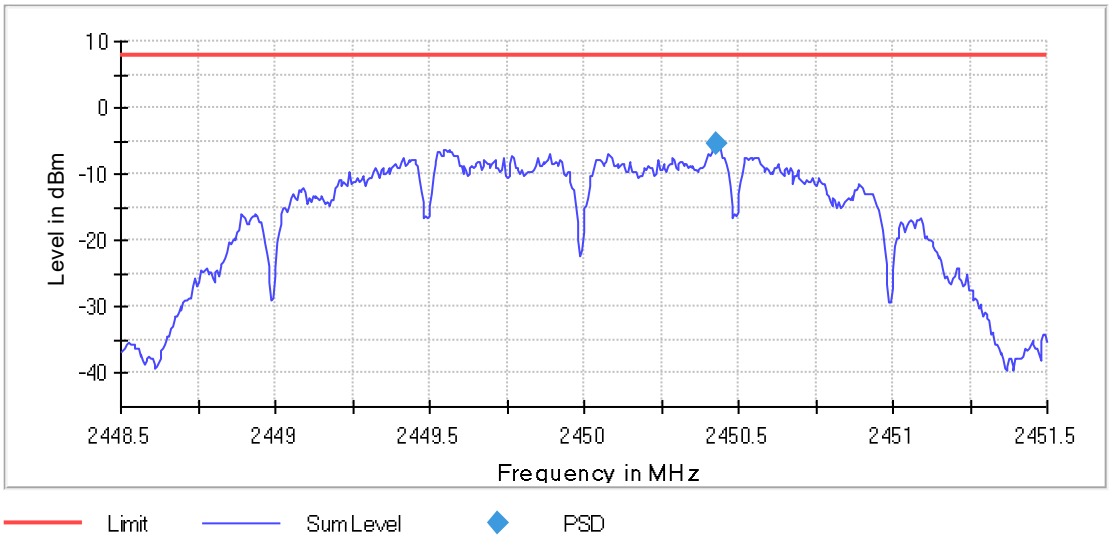
Data of 2405MHz

Peak Power Spectral Density

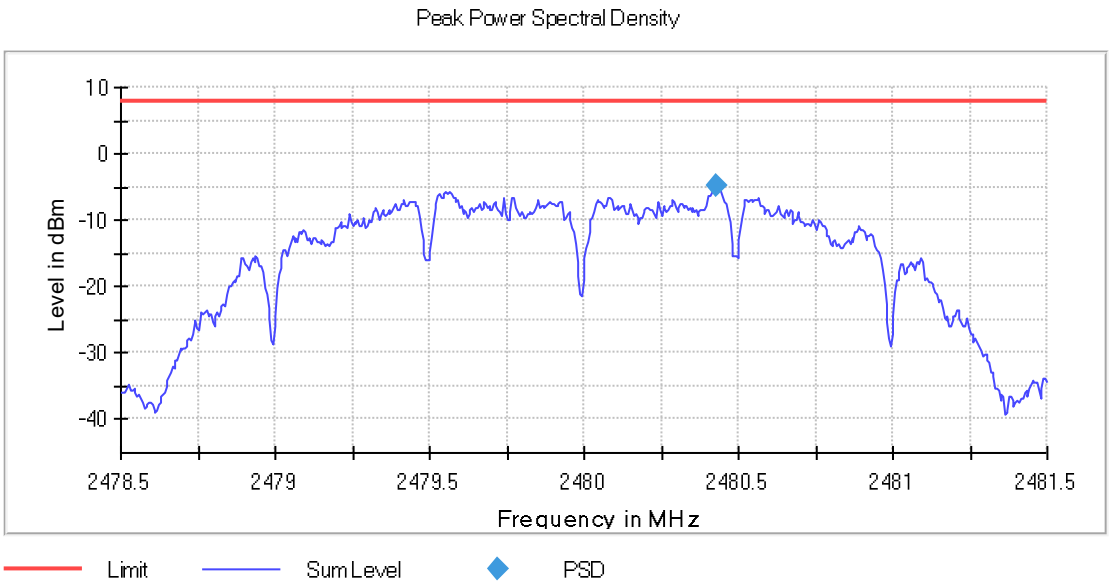


Data of 2450MHz

Peak Power Spectral Density



Data of 2480MHz



5 IDENTIFICATION OF THE EQUIPMENT UNDER TEST

The photographs show the tested device.

Refer to documents External photo and Internal photo.

ANNEX 1 – MEASUREMENT UNCERTAINTY

Test Item	Uncertainty
Occupied Channel Bandwidth	±0.7%
RF Output power, conducted	±0.6dB
Power Spectral Density, Conducted	±0.6dB
Unwanted Emissions, Conducted	±0.7dB
Spurious (30-1000MHz)	±4.4dB
Spurious (1-18GHz)	±4.4dB

ANNEX 2 - USED EQUIPMENT

For Radiated Emission (30MHz-1000MHz)

Instrumentation	Manufacturer	Model No.	Serial No.	DEKRA No.	Cal. Last date	Cal. Due date
3m Chamber	ETS	FACT3-2.0	CT000344-1100	G/L856	2025/03/11	2028/03/10
EMI receiver	R&S	ESCI	101205	G/L858	2025/05/14	2026/05/13
Antenna (30MHz-2GHz)	SCHWARZBECK	VULB9168	01229	GZ2018	2025/03/17	2026/03/16
Test software	AUDIX	e3	Version 6.130520	---	-	---

For Radiated Emission (1GHz-40GHz)

Instrumentation	Manufacturer	Model No.	Serial No.	DEKRA No.	Cal. Last date	Cal. Due date
3m Chamber	ETS	FACT3-2.0	CT000344-1100	G/L856	2025/03/12	2026/03/11
Antenna (1GHz-18GHz)	SCHWARZBECK	BBHA 9120D	02408	GZ2019	2025/01/17	2026/01/16
Horn antenna preamplifier	EMC Instruments corporation	EMC051845 SE	980778	GZ2009	2024/11/14	2025/11/13
Antenna (18GHz-26.5GHz)	ETS	3160-09	00164643	G/L1237	2025/01/17	2026/01/16
Horn antenna preamplifier	SCHWARZBECK	SCU-26D	1879064	G/L1237-1	2025/01/13	2026/01/12
Antenna (15GHz-40GHz)	SCHWARZBECK	BBHA 9170	00908	GZ1901	2025/06/22	2026/06/21
Horn antenna preamplifier	EMCI	EMC264045 SE	980679	GZ1901-1	2025/06/06	2026/06/05
Spectrum analyzer	R&S	FSV	SN101012	G/L1235	2024/12/02	2025/12/01

FOR RF

Instrumentation	Manufacturer	Model	Serial no.	DEKRA No.	Cal. Last date	Cal Due date
Spectrum analyzer	R&S	FSV	SN101012	G/L1235	2024/12/02	2025/12/01
Chamber	ETS	/	/	G/L856	2025/03/13	2026/03/12
Horn antenna (1GHz-18GHz)	R&S	HF907	102306	G/L1236	2025/05/28	2026/05/27
Horn antenna preamplifier	Schwarzbeek	SCU-18	102234	G/L1236-1	2025/01/08	2026/01/07
Horn antenna (18GHz-26.5GHz)	ETS	3160-09	00164643	G/L1237	2025/01/17	2026/01/16
Horn antenna preamplifier	/	SCU-26D	1879064	G/L1237-1	2025/01/13	2026/01/12
EMI receiver	R&S	ESCI	101205	G/L857	2025/05/14	2026/05/13
Antenna (30MHz-3GHz)	SCHWARZBECK	VULB9163	506	G/L864	2025/07/17	2026/07/16
OSP	R&S	OSP 150	101907	GZ1893	2025/01/08	2026/01/07
Signal generator	R&S	SMB 100A	181317	GZ1895	2025/01/08	2026/01/07
Vector signal	R&S	SMBV100A	263671	GZ1896	2025/01/08	2026/01/07

generator						
Wireless connectivity tester	R&S	CMW 270	100990	GZ1894	2025/01/08	2026/01/07
Band filter	HX Microwave	HXLBQ-DZA219	23080804-1	GZ2464	2025/07/15	2026/07/14
RMI artificial antenna	/	/	/	GZ1988	2025/03/14	2026/03/13
Programmable Temperature & Humidity Chamber	ASTUOD	TT-5166	52689	GZ2209	2025/03/14	2026/03/13
Test software	R&S	EMC32	Version 11.30.00	---	-	-

ANNEX 3 - TEST PHOTOS

Refer to document Test setup.

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