

	
MOTOROLA PENANG ADV. COMM. LABORATORY Motorola Solutions Malaysia Sdn. Bhd. Plot 2A Medan Bayan Lepas, Mukim 12, S.W.D. 11900 Bayan Lepas, Penang, Malaysia.	FCC / ISED TEST REPORT Report Revision : Rev.A
Date/s Tested : 06-April-2026 - 20-April-2026 Report Issue Date : 20-April-2026 Test Location : MOTOROLA PENANG ADV. COMM. LABORATORY Manufacturer/Location : Motorola Solutions Malaysia Sdn Bhd Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia Requestor : SUBRAMANIAM VASU Product Type : Mobile / Vehicle Mount Product Marketing Name (PMN) : MR7r Hardware Version Identification Number (HVIN) : AAM29JNN9YA1AN Frequency Band : 2.402 - 2.480 GHz Max RF Output Power : GFSK - 11.22mW PI/4 DPSK & 8DPSK - 15.85mW Applicant Name : Motorola Solutions Inc Applicant Address : Plot 2A, Medan bayan Lepas, Mukim 12 S.W.D.11900 Bayan Lepas, Penang, Malaysia FCC Registrations : 461337 CAB ID : MY0001 Firmware Version Identification Number (FVIN) : D02.26.02.0175 The equipment was tested accordance to the requirement listed below: (2.4GHz BT) PASS FCC 47CFR Part 15C ISED RSS 247 Issue 4	
This report shall not be reproduced without written approval from an officially designated representative of the Motorola Penang Adv. Comm. Laboratory. The results and statements contained in this report pertain only to the device(s) evaluated.	
Prepared By:  SITI NURHIDAYATI BINTI ABDUL HALIM Test Personnel	Approved Signatory:  VINCENT FOONG CHUEN KIT Responsible Engineer

Table of Contents

1.0. General Information	3
2.0. Summary of Test Results.....	5
3.0. Measurement Uncertainty	6
4.0. Equipment List	7
5.0. Test Mode Applicability and Test Channel Detail	8
6.0. Transmitter Test Parameters	10
6.1. Conducted RF Output Power (Peak)	10
6.1.1. Test Setup	10
6.1.2. Test Limits:	10
6.1.3. Test Data:	11
6.2. 20dB Channel Bandwidth	15
6.2.1. Test Setup	15
6.2.2. Test Limits:	15
6.2.3. Test Data:	16
6.3. Band-edge Conducted Spurious Emission	19
6.3.1. Test Setup	19
6.3.2. Test Limits	19
6.3.3. Test Result	20
6.4. Dwell time on each channel	27
6.4.1. Test Setup	27
6.4.2. Test Limits:	27
6.4.3. Test Result	28
6.5. Number of hopping Frequency	32
6.5.1. Test Setup	32
6.5.2. Test Limits:	32
6.5.3. Test Result	33
6.6. Channel Separation	34
6.6.1. Test Setup	34
6.6.2. Test Limits:	34
6.6.3. Test Result	35
6.7. Conducted Spurious Emission.....	38
6.7.1. Test Setup	38
6.7.2. Test Limits:	38
6.7.3. Test Data:	39
6.8. Radiated Emission within restricted Bands	46
6.8.1. Test Setup	46
6.8.2. Test Limits:	47
6.8.3. Test Data:	48
6.9. AC Powerline Conducted Emission.....	93
6.9.1. Test Setup	93
6.9.2. Test Limits:	94
6.9.3. Test Result	95

REVISION HISTORY

Revision History	Description	Date	Originator
Rev. A	Initial Report	20-April-2026	Hidayati

1.0. General Information

EUT Description:

Technologies	2.4GHz BT
TX Frequency range	2402MHz – 2480MHz
Modulation Type	GFSK, Pi/4 DQPSK,8DPSK
Connector type	PROGRAMMING, TEST & ALIGNMENT CABLE
Antenna type	PIFA
Temporary RF Connector	0.56dB

Note: The description and information regarding the EUT are provided by the customer. The laboratory shall not be held responsible for any inaccuracies or misinformation in the provided details that may result in incorrect test outcomes.

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N
ANTENNA 132-174 3DB GAIN	MOTOROLA	HAD4022A
MOBILE ANTENNA GNSS L1 & L5 MAGNET MOUNT	MOTOROLA	PMAN4013A
GENESEE COLOR DISPLAY CONTROL HEAD	MOTOROLA	PMLN8805A
LTD DESKTOP MOBILE MIC	MOTOROLA	RMN5050A
DESKTOP TRAY WITH SPEAKER	MOTOROLA	RSN4005A
POWER SUPPLY ADAPTOR,EXT 280W POWER SUPPLY , 100-240VAC, SAE	MOTOROLA	PS000280A02
POWER CORD, US	MOTOROLA	3087791G01

Channel number and frequency information:

79 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, the EUT is to comply with the requirements of the following standards:

FCC 47 CFR Part 15 Subpart C

KDB 558074 D01 15.247 Meas Guidance v05

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024

Deviation from standard

Not applicable as no deviation from standard test method

Modifications to EUT

For RF conducted measurements a pigtail was soldered out of the board while for radiated measurements there were no modifications to the device

2.0. Summary of Test Results

FCC Clause	ISED Clause	Test Item	Result	Remark	Serial number tested	Tested by
15.247 (b)(1)	RSS-247 5.4(b)	Conducted RF Output Power (Peak)	Pass	Highest output power: 10.937 (12.408 mW)	008TCF1506	Hidayati
15.247 (a)(1)	RSS-247 5.1(a) RSS-247 5.1(b)	(1) 20dB Channel Bandwidth (2) Channel Separation	Pass	GFSK – 866KF1D Pi/4 DQPSK – 1M18G1D 8DPSK - 1M19G1D	008TCF1506	Hidayati
15.247(a)(1)(iii)	RSS-247 5.1(d)	Number of hopping Frequency used	Pass	Meet the limit requirement.	008TCF1506	Hidayati
15.247(a)(1)(iii)	RSS-247 5.1(d)	Dwell time on each channel	Pass	Meet the limit requirement.	008TCF1506	Hidayati
15.247 (d)	RSS-247 5.5	Band Edge Conducted Spurious Emission	Pass	Worst case emission: -44.25 dB	008TCF1506	Hidayati
15.247 (d)	RSS-247 5.5	Conducted Spurious Emission	Pass	Worst case emission: -44.88 dBm	008TCF1506	Hidayati
15.205, 15.209, 15.247 (d)	RSS-247 5.5	Radiated Emission within Restricted Bands	Pass	Worst case emission: RBE: 40.93dBuV/m (Margin: 13.07 dB) RSE: 31.57dBuV/m (Margin : 8.43 dB)	008TCF1512	Nazrin & Fuad
15.207	RSS-Gen 8.8	AC Powerline Conducted Emission	Pass	Meet the limit requirement.	008TCF1512	Helmy
15.203	-	Antenna Requirement	NA	Internal antenna is not accessible to the end-user	NA	NA

3.0. Measurement Uncertainty

The measurement uncertainties below were calculated using approach describe in ETSI TR 100 028, ETSI TR 100 028-2 (using a coverage factor of $k = 1.96$) & CISPR 16-4-2 (using a coverage factor of $k=2$), which gives a level of confidence of approximately 95%.

According to CISPR 16-4-2, the levels were found to be below levels of U_{CISPR} and therefore no adjustment of the data for measurement uncertainty is required.

ETSI TR 100 028 & ETSI TR 100 028-2:

MEASUREMENT TYPE	FREQUENCY RANGE	EXPANDED UNCERTAINTY
Conducted Spurious Output Power	9kHz-12750MHz	± 2.82 dB

CISPR 16-4-2:

MEASUREMENT TYPE	FREQUENCY RANGE	EXPANDED UNCERTAINTY
AC Power-line Conducted Emissions	150kHz-30MHz	± 3.44 dB
Radiated Emissions	30MHz-1000MHz	± 6.00 dB
Radiated Emissions	1000MHz-18000MHz	± 5.14 dB
Radiated Emissions	18000MHz-40000MHz	± 5.36 dB

Final Reported Test Results

The final reported test results are calculated using the following equation:

Reported RF Measurement Results = Measured Measurement Results + Correction Factor

Where:

- Measured Measurement Results is the measured test results
- Correction Factor is the cumulative loss of all cables used during measurement, including temporary RF connector and antenna gain.

4.0. Equipment List

Bluetooth ATE # 1 (SW Version: Ate Main_3.2.2)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
CHAMBER	SH-641	92003820	9-Jul-25	9-Jul-26
POWER SUPPLY	6652A	MY40001438	27-Aug-25	27-Aug-26
SPECTRUM ANALYZER	E4440A	MY46185415	15-Jan-25	15-Jul-26

Radiated Emission Station (SW Version: EMC FCC RE v1.8.2)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
DRG HORN FREQ.	SAS-571	719	31-Oct-25	31-Oct-26
DRG HORN FREQ.	SAS-571	1027	21-Jul-25	21-Jul-26
DC Power Supply	6031A	3313A02730	06-Oct-25	06-Oct-26
SIGNAL GENERATOR	SMB 100A	180683	20-Dec-24	20-Dec-27
EMI TEST RECEIVER	ESW44	101731	11-Aug-25	10-Aug-26
5m SEMI-ANECHOIC CHAMBER	S800-HX	J2308	No Cal. Req'd	No Cal. Req'd
BILOG ANTENNA	CBL 6112D	55546	30-Jun-25	30-Jun-26
BILOG ANTENNA	CBL6112B	2964	06-Nov-25	06-Nov-26
DATA LOGGER THERMOHYGROMETER	SDL500	A.016785	16-Jul-25	16-Jul-26
SYSTEM CONTROLLER	SC104V	050806-1	No Cal. Req'd	No Cal. Req'd
TURNTABLE FLUSH MOUNT 2M	FM2011	FM2011-001	No Cal. Req'd	No Cal. Req'd
ANTENNA POSITIONING TOWER	TLT2	090308-5	No Cal. Req'd	No Cal. Req'd
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170143	30-Sep-25	30-Sep-26
PREAMPLIFIER 18-40GHz	JS44-18004000-33-8P	2034566	No Cal. Req'd	No Cal. Req'd
PREAMPLIFIER 1-18GHz	EMC0518A45SE	981005	19-Sep-25	18-Sep-26
PREAMPLIFIER	PAM-0118P	361	29-Sep-23	29-Sep-26
LOOP ANTENNA	6502	00208416	06-Nov-25	06-Nov-26

AC Powerline Station (SW Version: EMC32 Ver.10.60.10)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
DATA LOGGER	DSB	16344143	16-Jul-2025	16-Jul-2026
V-NETWORK 2-LINE	ENV216	101268	30-Jun-2025	30-Jun-2026
EMI TEST RECEIVER	ESCI 3	100225	4-Sep-2025	4-Sep-2026
PROGRAMMABLE AC SOURCE	61604	ABR000000926	20-Aug-2025	20-Aug-2026

Note: Performed test site validation in accordance with ANSI C63.4-2014+C63.4a-2017 (30 MHz - 1 GHz) and CISPR 16-1-4 (1 GHz - 18 GHz) annually but no less than once every 3 years.

5.0. Test Mode Applicability and Test Channel Detail

Radiated Emission Test (Above 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Environmental Conditions
Test Mode	0 to 78	0,39,78	FHSS	GFSK, Pi/4 DQPSK,8DPSK	23.6°C, 68.9%RH

Radiated Emission Test (Below 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Environmental Conditions
Test Mode	0 to 78	0,39,78	FHSS	GFSK, Pi/4 DQPSK,8DPSK	23.6°C, 68.9%RH

Power Line Conducted Emission Test

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

NAEUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Environmental Conditions
Application Mode	0 to 78	AUTO	FHSS	AUTO	22.2°C, 64.4%RH

Antenna Port Conducted Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

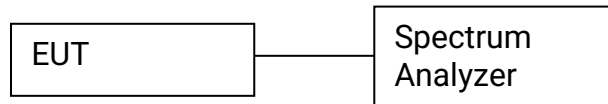
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Environmental Conditions
Test Mode	0 to 78	0,39,78	FHSS	GFSK, Pi/4 DQPSK,8DPSK	25°C, 54.8%RH

6.0. Transmitter Test Parameters

6.1. Conducted RF Output Power (Peak)

6.1.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and set EUT to transmit maximum data rate with hopping disable.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = > 20 dB bandwidth
 - b. VBW = RBW
 - c. Detector mode = Peak
 - d. AMPLITUDE → Scale/Div = 10 dB
 - e. Trace = Max hold
 - f. Sweep = auto
- e) Measure the captured power within the band and recording the plot.
- f) Repeat above procedure with other different mode of operation.

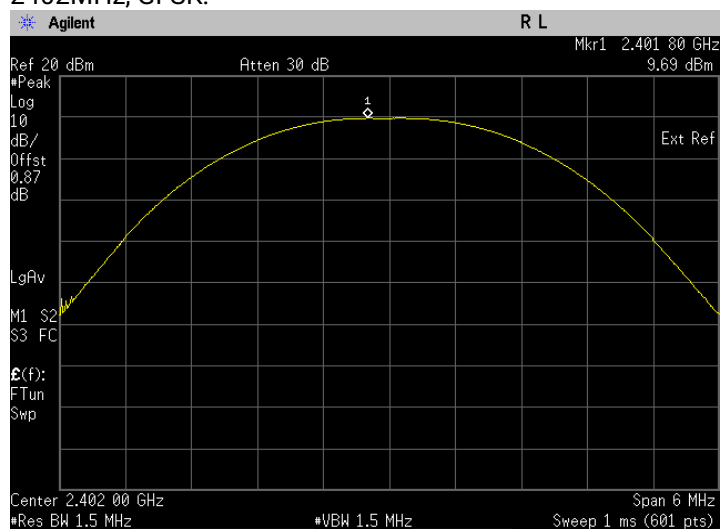
6.1.2. Test Limits:

Normal Condition (25 ° C)
≤ 125mW (or 20.9dBm)

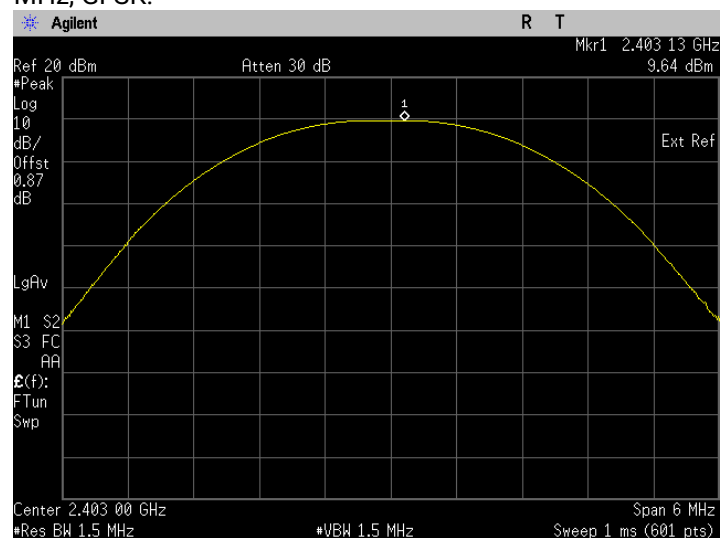
6.1.3. Test Data:

Test Conditions			Results	
Modulation	Voltage(V)	Test Frequency(GHz)	dBm	Status
GFSK	13.60	2.4020	9.692	Pass
		2.4030	9.640	Pass
		2.4410	9.414	Pass
		2.4790	9.290	Pass
		2.4800	9.326	Pass
Pi/4 DQPSK	13.60	2.4020	10.700	Pass
		2.4030	10.610	Pass
		2.4410	10.392	Pass
		2.4790	10.230	Pass
		2.4800	10.295	Pass
8DPSK	13.60	2.4020	10.937	Pass
		2.4030	10.870	Pass
		2.4410	10.645	Pass
		2.4790	10.520	Pass
		2.4800	10.520	Pass

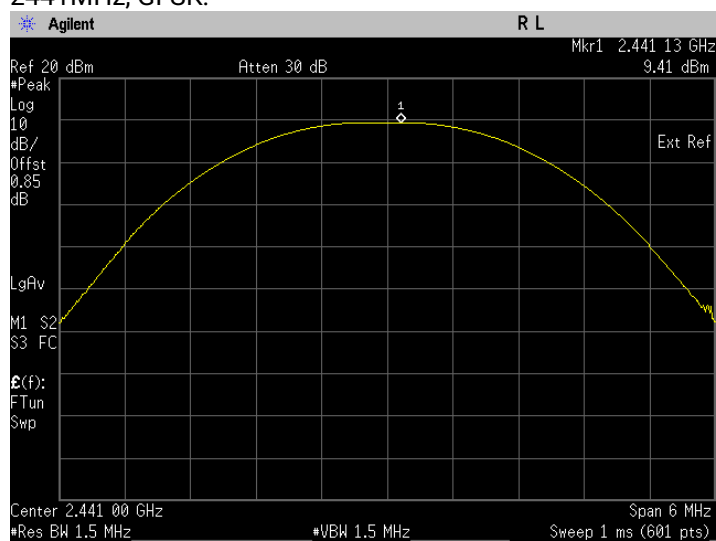
The Conducted RF Output Power test with result at 2402MHz, GFSK.



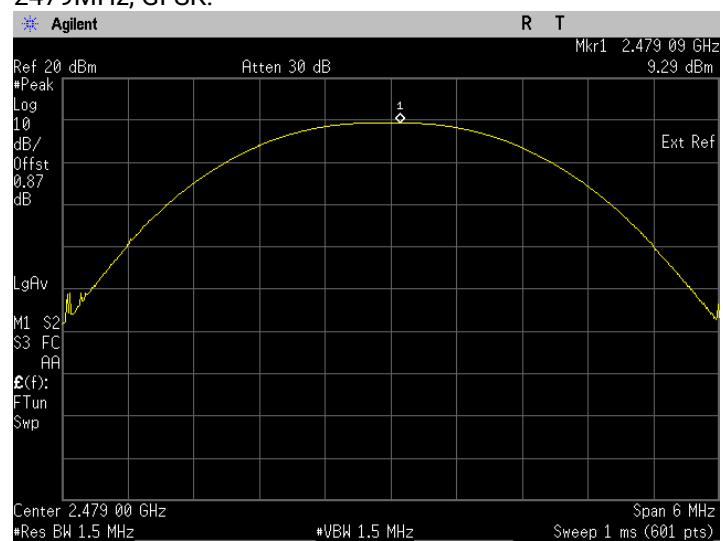
The Conducted RF Output Power test with result at 2403 MHz, GFSK.



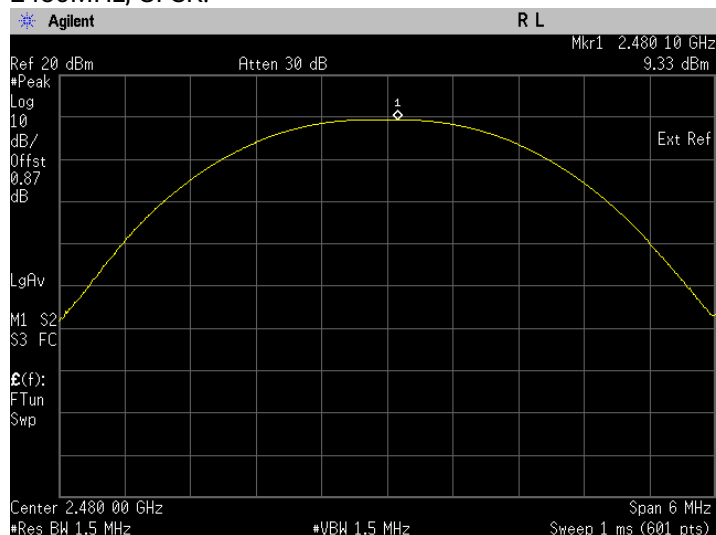
The Conducted RF Output Power test with result at 2441MHz, GFSK.



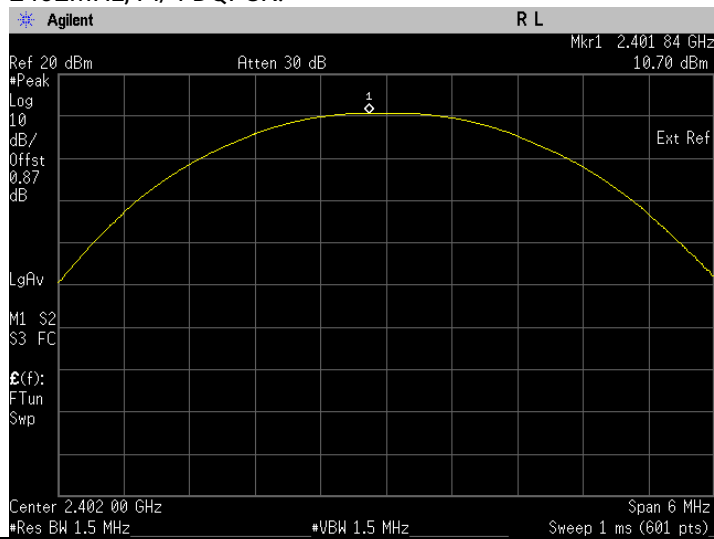
The Conducted RF Output Power test with result at 2479MHz, GFSK.



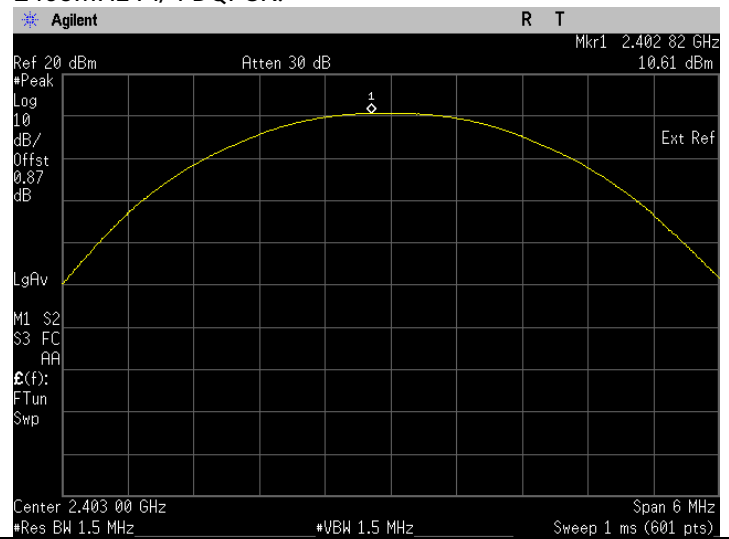
The Conducted RF Output Power test with result at 2480MHz, GFSK.



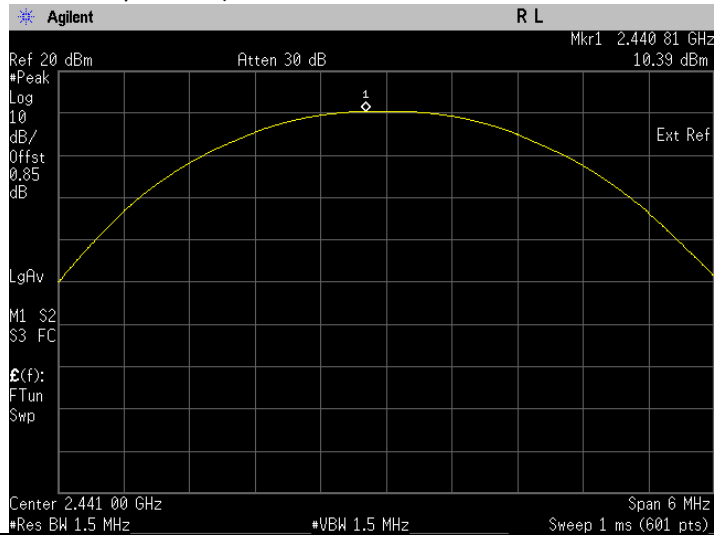
The Conducted RF Output Power test with result at 2402MHz, Pi/4 DQPSK.



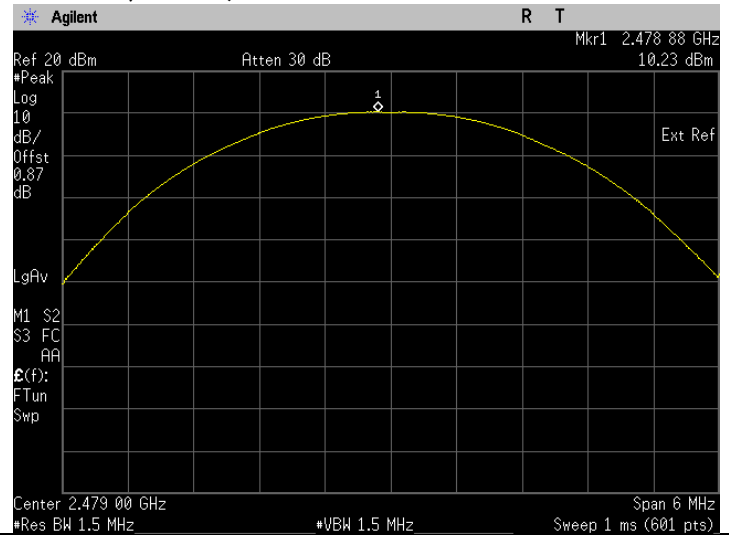
The Conducted RF Output Power test with result at 2403MHz Pi/4 DQPSK.



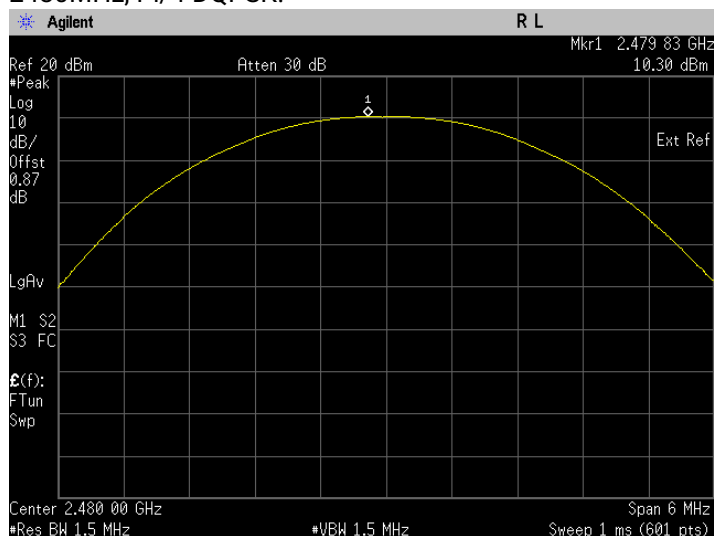
The Conducted RF Output Power test with result at 2441MHz, Pi/4 DQPSK.



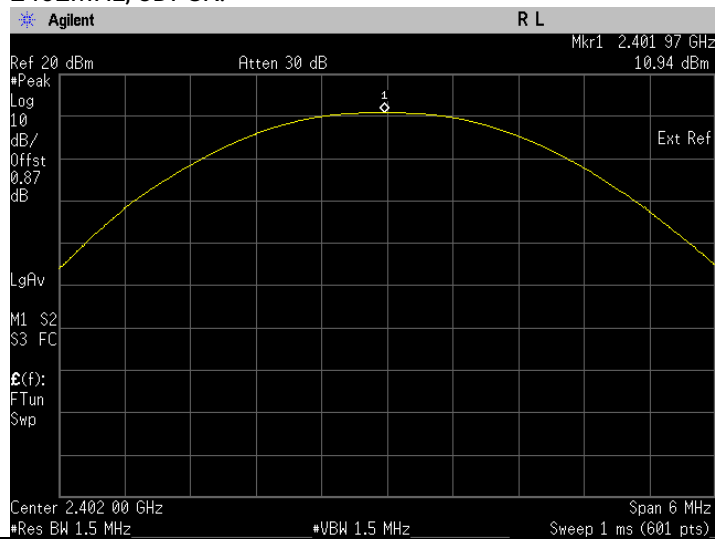
The Conducted RF Output Power test with result at 2479MHz, Pi/4 DQPSK.



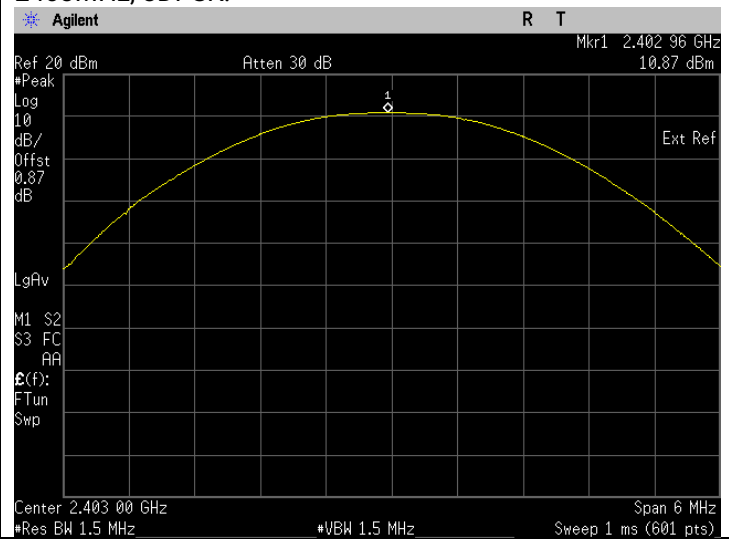
The Conducted RF Output Power test with result at 2480MHz, Pi/4 DQPSK.



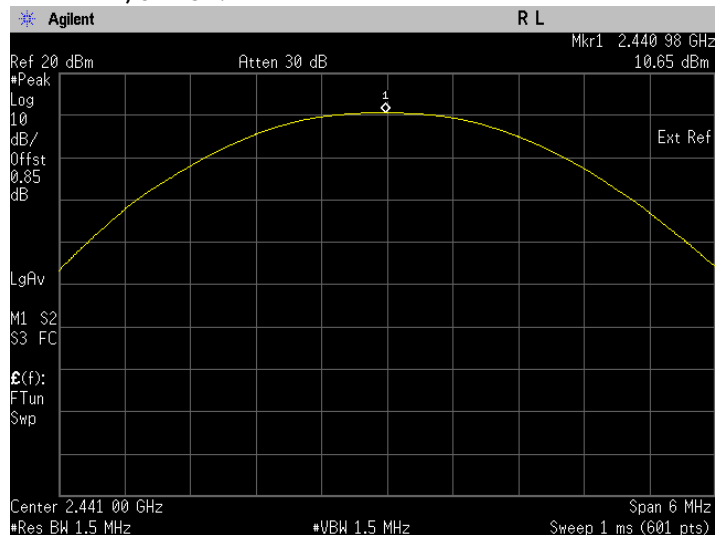
The Conducted RF Output Power test with result at 2402MHz, 8DPSK.



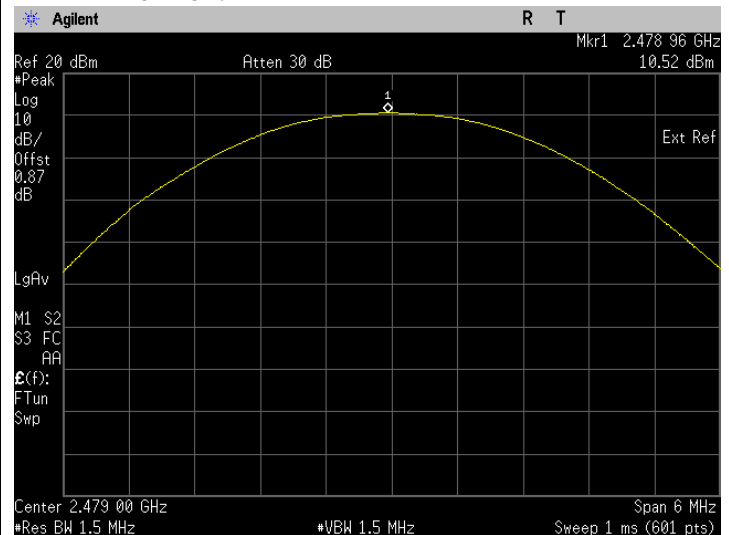
The Conducted RF Output Power test with result at 2403MHz, 8DPSK.



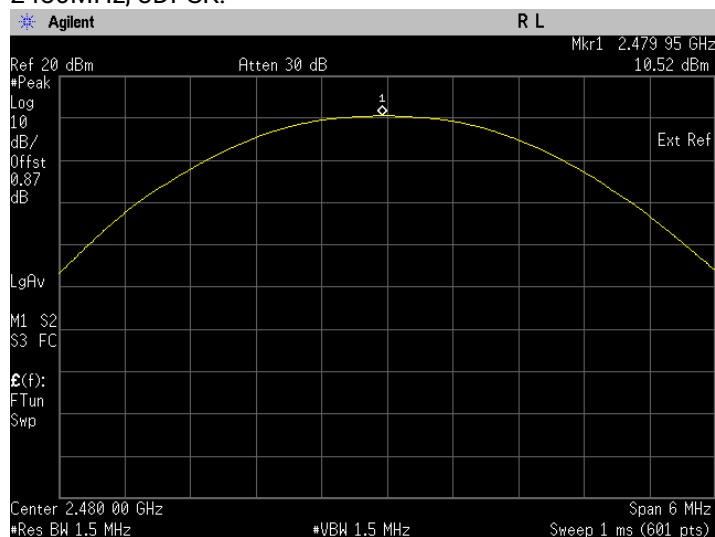
The Conducted RF Output Power test with result at 2441MHz, 8DPSK.



The Conducted RF Output Power test with result at 2479MHz 8DPSK.

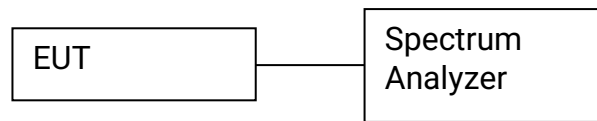


The Conducted RF Output Power test with result at 2480MHz, 8DPSK.



6.2. 20dB Channel Bandwidth

6.2.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and set EUT to transmit maximum data rate with hopping disable.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 30 kHz
 - b. VBW = 100 kHz
 - c. SPAN = 3 MHz, center on test frequency
 - d. AMPLITUDE → Scale/Div = 10 dB
 - e. Detector mode = Peak
 - f. Trace = Max hold
 - g. Sweep = auto
- e) Measure the freq different of two frequencies that were attenuated 20dB from peak of the emission & record the frequency difference as the emission bandwidth.
- f) Save the plot result from spectrum analyzer screen.
- g) Repeat above procedure with other different mode of operation.

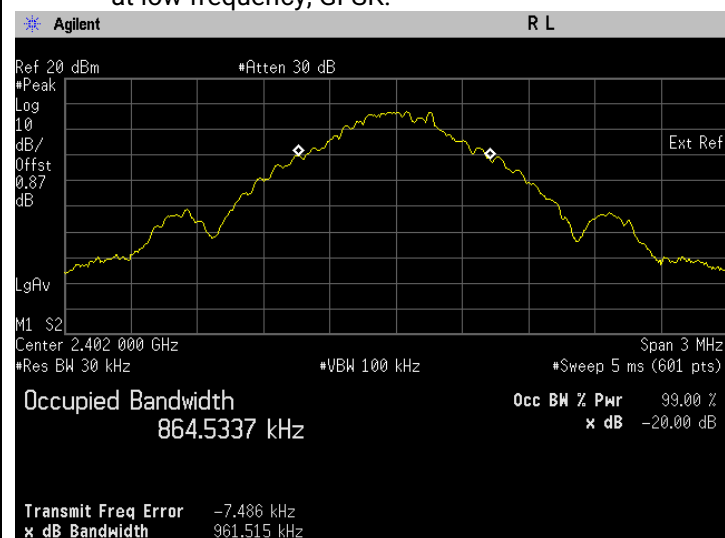
6.2.2. Test Limits:

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

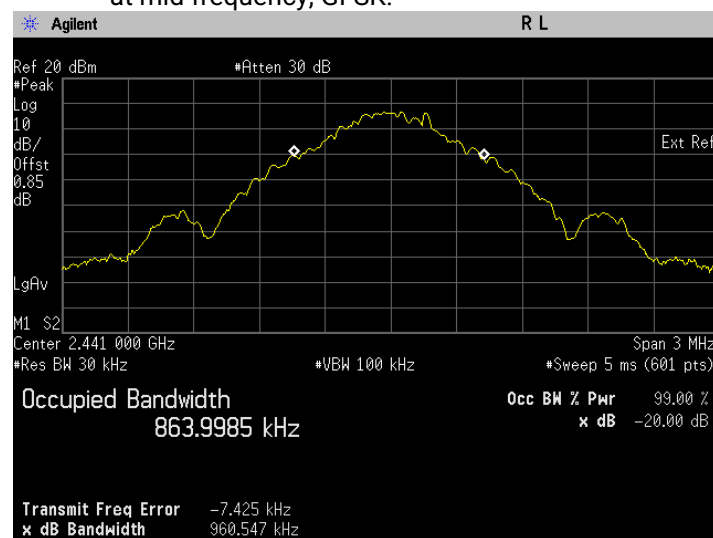
6.2.3. Test Data:

Test Conditions		Test Frequency	Results		
Modulation Type	Voltage(V)	TX (GHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Status
GFSK	13.60	2.4020	0.962	0.865	Pass
		2.4410	0.961	0.864	Pass
		2.4800	0.962	0.866	Pass
Pi/4 DQPSK	13.60	2.4020	1.335	1.179	Pass
		2.4410	1.335	1.179	Pass
		2.4800	1.335	1.178	Pass
8DPSK	13.60	2.4020	1.319	1.185	Pass
		2.4410	1.309	1.182	Pass
		2.4800	1.307	1.182	Pass

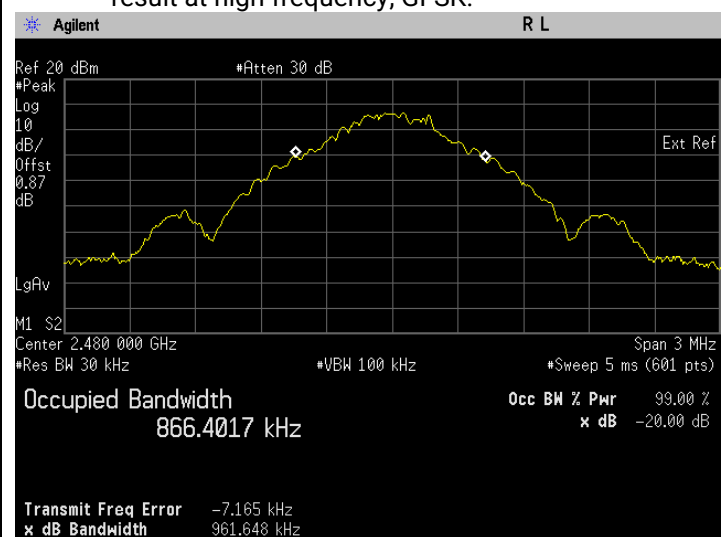
i. The 20 dB BW & occupied bandwidth test with result at low frequency, GFSK.

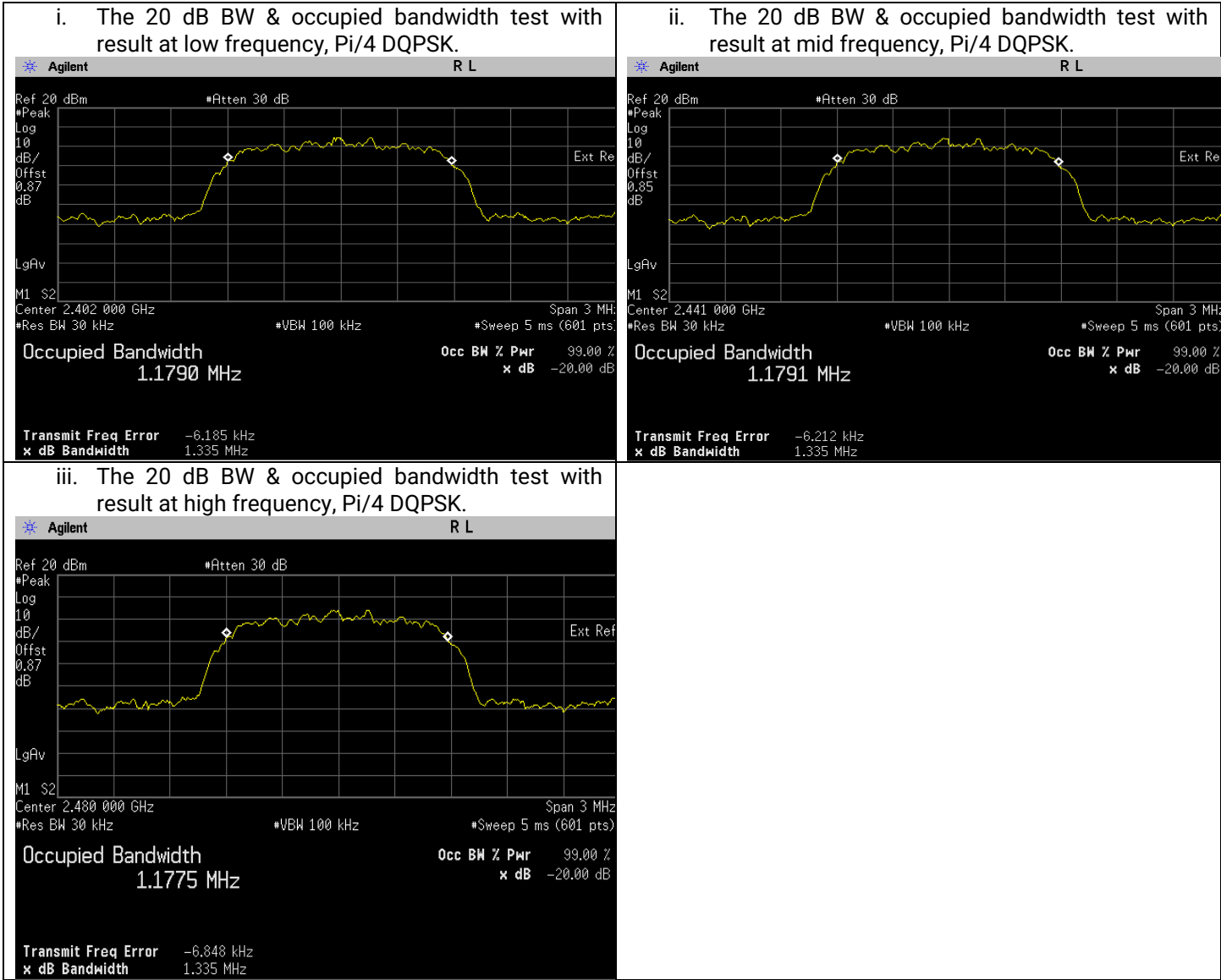


ii. The 20 dB BW & occupied bandwidth test with result at mid frequency, GFSK.

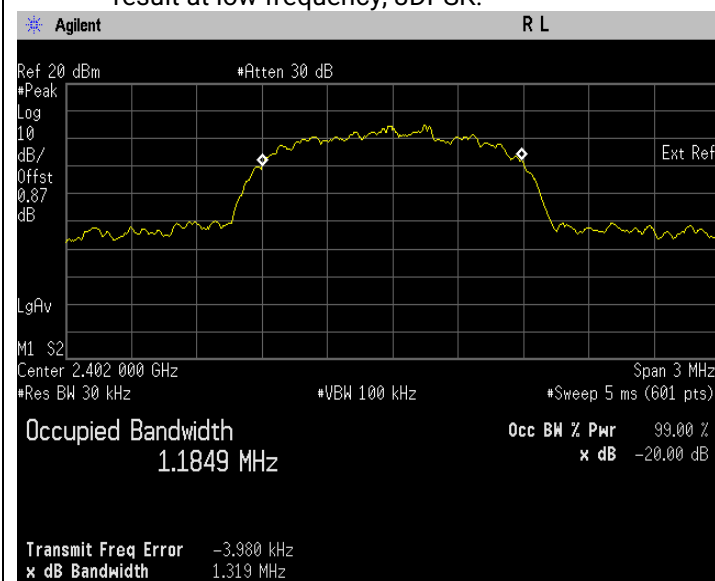


iii. The 20 dB BW & occupied bandwidth test with result at high frequency, GFSK.

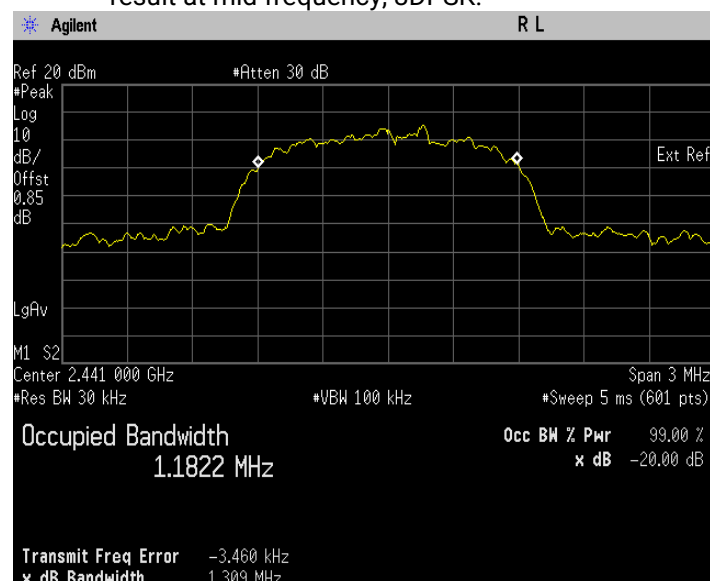




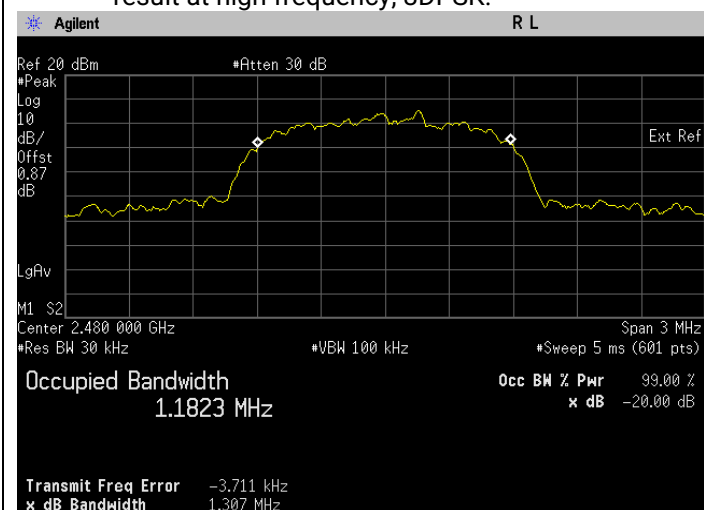
i. The 20 dB BW & occupied bandwidth test with result at low frequency, 8DPSK.



ii. The 20 dB BW & occupied bandwidth test with result at mid frequency, 8DPSK.

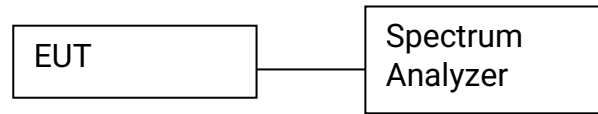


iii. The 20 dB BW & occupied bandwidth test with result at high frequency, 8DPSK.



6.3. Band-edge Conducted Spurious Emission

6.3.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and keep the EUT in hopping mode.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. SPAN = 4 MHz (Low channel) or 6MHz(High Channel)
 - d. Detector mode = Peak
 - e. AMPLITUDE → Scale/Div = 10 dB
 - f. Trace = Max hold
 - g. Sweep = auto
- e) Measure the captured band edge emission result and recording the plot.
- f) Repeat above on EUT with hopping disable.
- g) Repeat above procedure with other different test frequency.

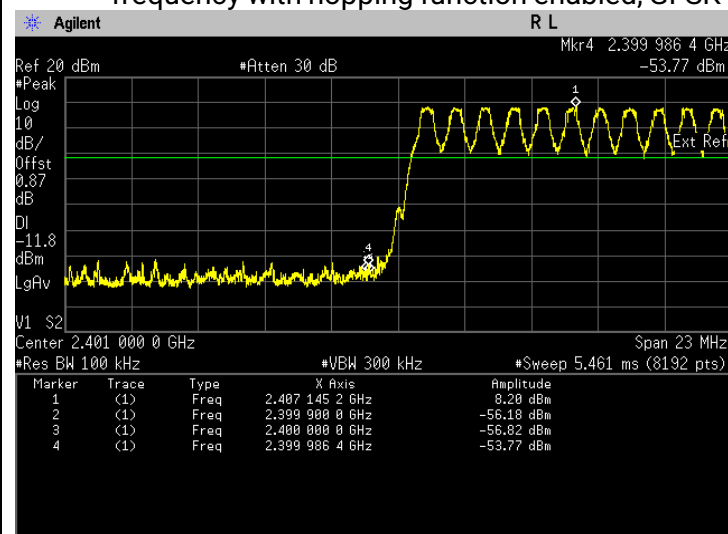
6.3.2. Test Limits

Normal Condition (25 ° C)
Shall be at least 20 dB below the peak power.

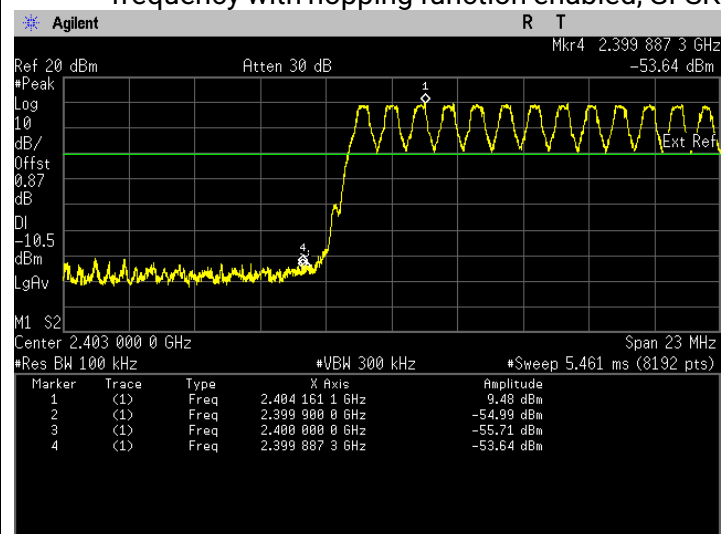
6.3.3. Test Result

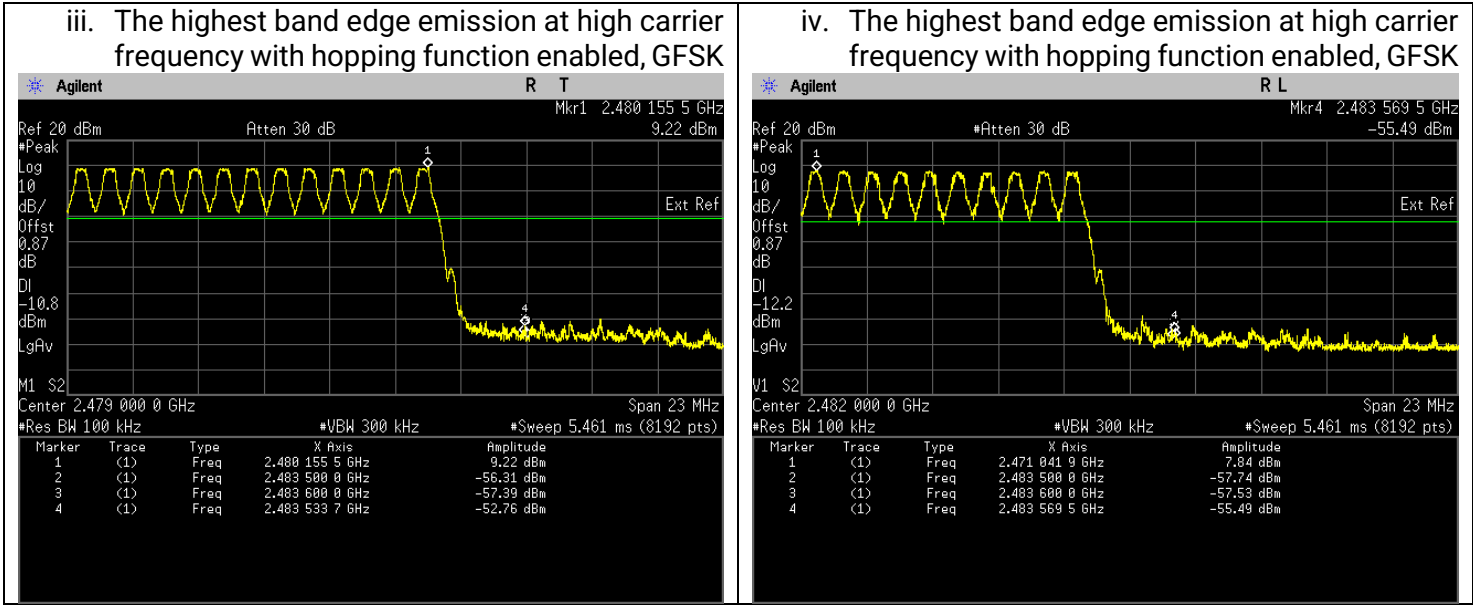
Test Conditions				Results	
Modulation	Voltage(V)	Hopping Method	Test Frequency(GHz)	dB	Status
GFSK	13.60	Enabled (continuously)	2.402	-53.77	Pass
			2.403	-53.64	Pass
			2.479	-52.76	Pass
			2.480	-55.49	Pass
		Disabled (constantly)	2.402	-51.41	Pass
			2.403	-55.71	Pass
			2.479	-56.21	Pass
			2.480	-53.03	Pass
Pi/4 DQPSK	13.60	Enabled (continuously)	2.402	-49.40	Pass
			2.403	-49.72	Pass
			2.479	-56.67	Pass
			2.480	-58.83	Pass
		Disabled (constantly)	2.402	-49.44	Pass
			2.403	-54.26	Pass
			2.479	-55.43	Pass
			2.480	-55.25	Pass
8 DPSK	13.60	Enabled (continuously)	2.402	-48.07	Pass
			2.403	-47.94	Pass
			2.479	-54.38	Pass
			2.480	-54.63	Pass
		Disabled (constantly)	2.402	-44.25	Pass
			2.403	-53.54	Pass
			2.479	-54.81	Pass
			2.480	-53.41	Pass

i. The highest band edge emission at low carrier frequency with hopping function enabled, GFSK

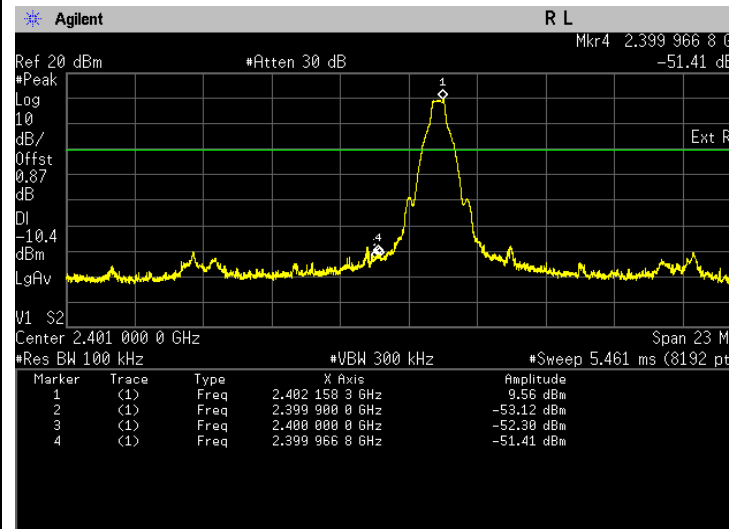


ii. The highest band edge emission at low carrier frequency with hopping function enabled, GFSK

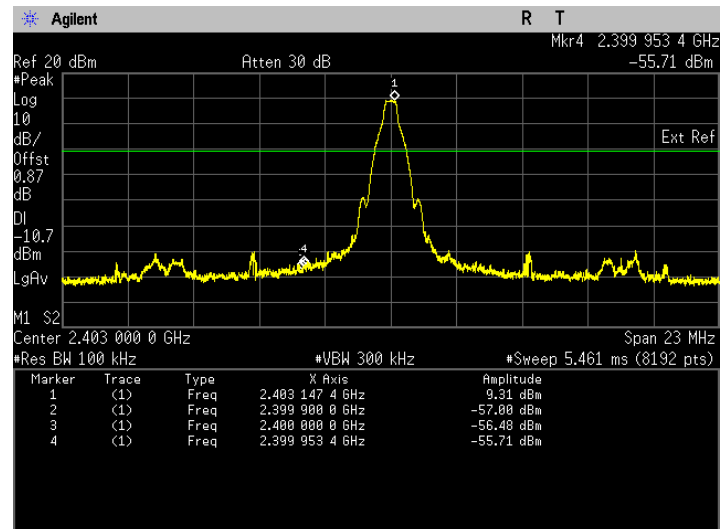




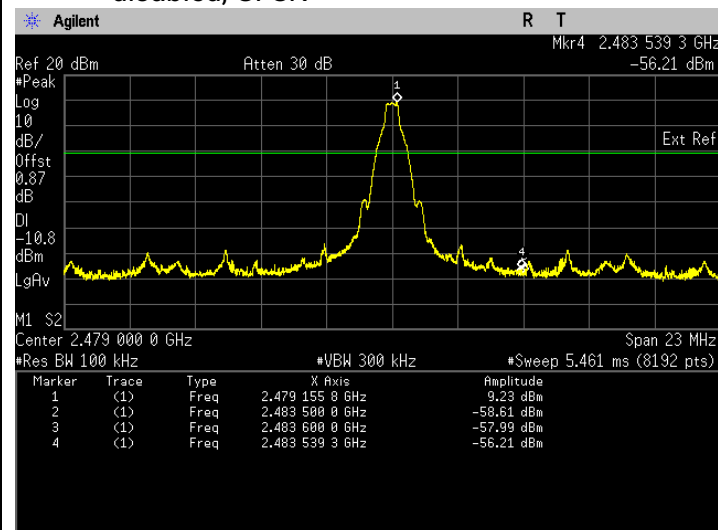
v. The highest band edge emission at low carrier frequency with hopping function disabled, GFSK



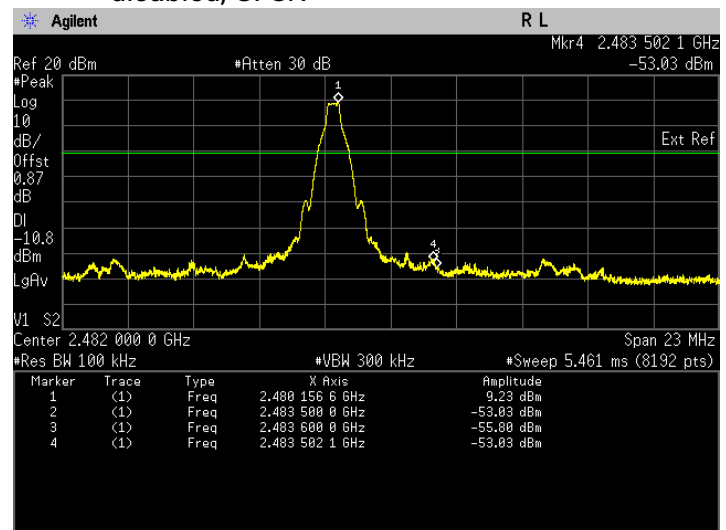
vi. The highest band edge emission at low carrier frequency with hopping function disabled, GFSK



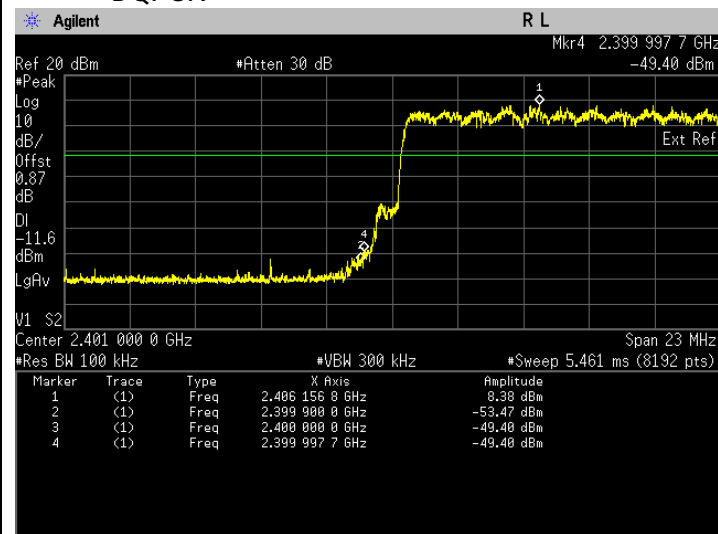
vii. The highest band edge emission at high carrier frequency with hopping function disabled, GFSK



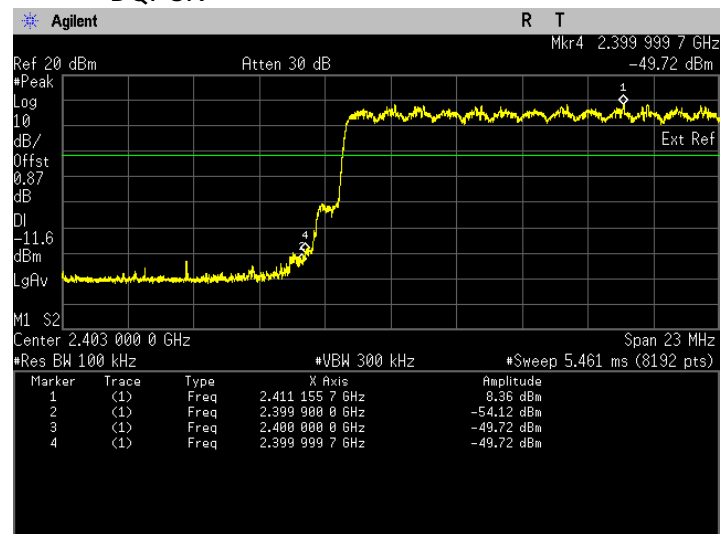
viii. The highest band edge emission at high carrier frequency with hopping function disabled, GFSK



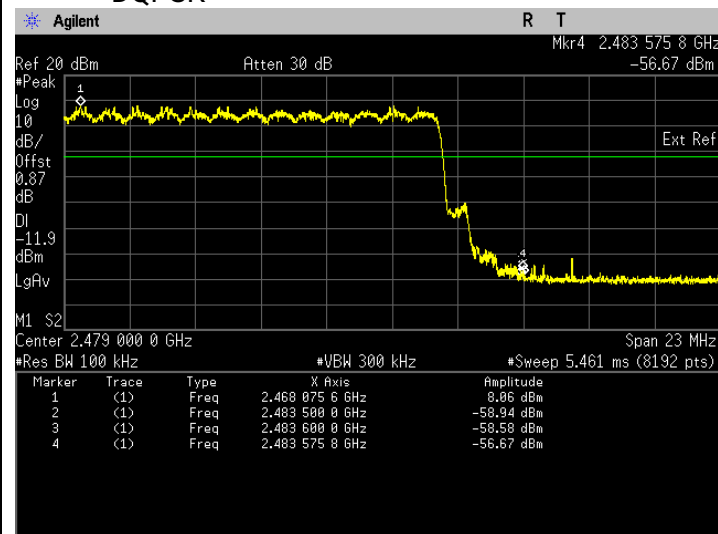
- i. The highest band edge emission at low carrier frequency with hopping function enabled, Pi/4 DQPSK



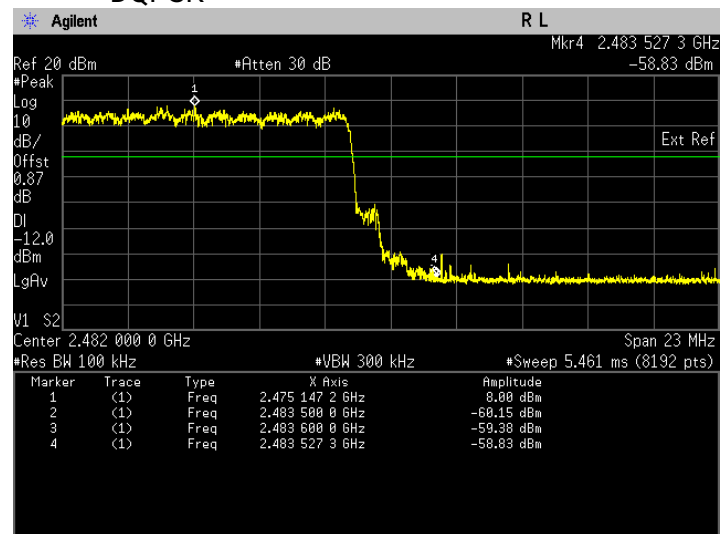
- ii. The highest band edge emission at low carrier frequency with hopping function enabled, Pi/4 DQPSK



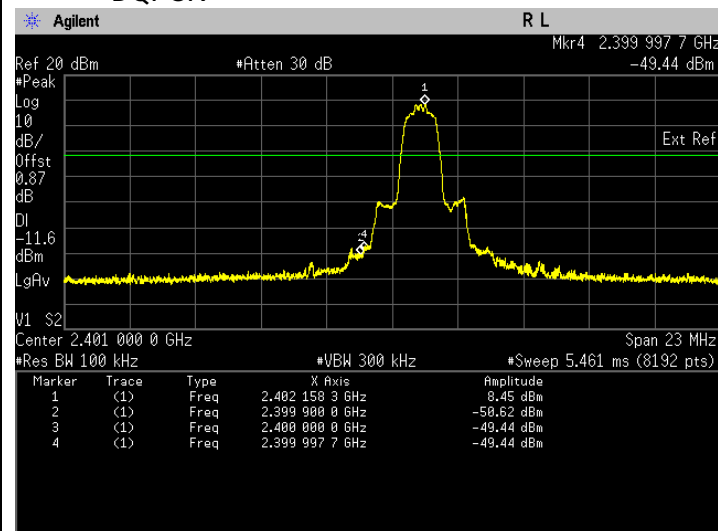
- iii. The highest band edge emission at high carrier frequency with hopping function enabled, Pi/4 DQPSK



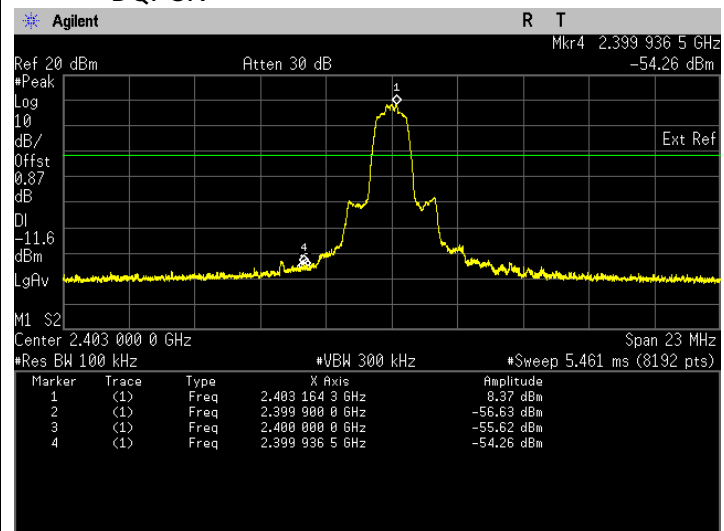
- iv. The highest band edge emission at high carrier frequency with hopping function enabled, Pi/4 DQPSK



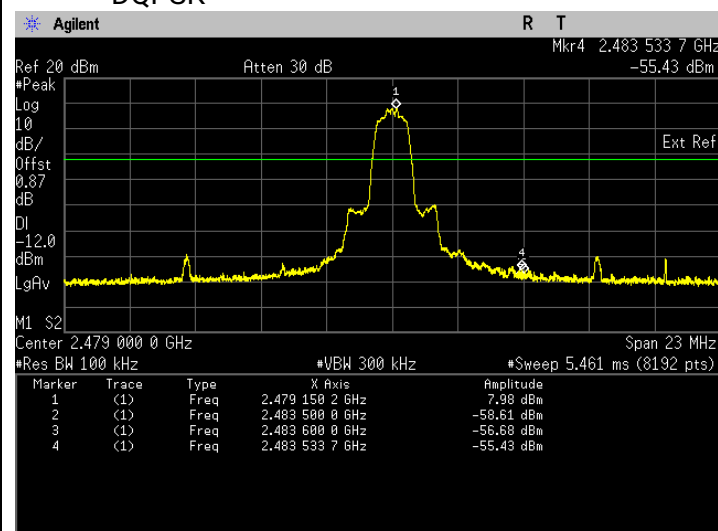
v. The highest band edge emission at low carrier frequency with hopping function disabled, Pi/4 DQPSK



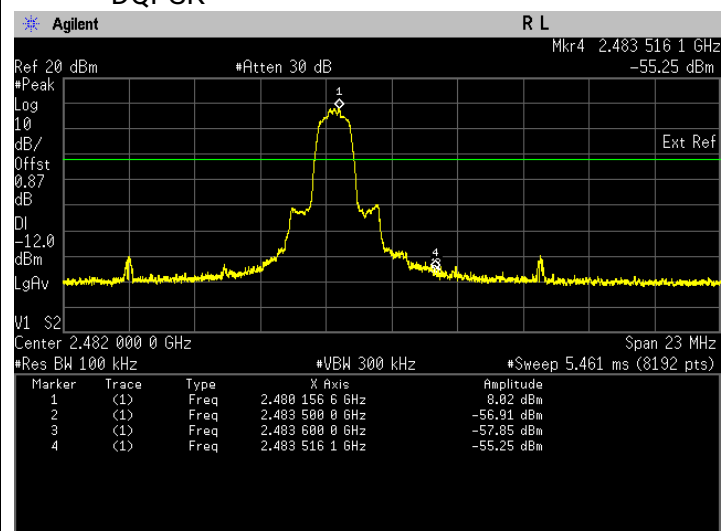
vi. The highest band edge emission at low carrier frequency with hopping function disabled, Pi/4 DQPSK



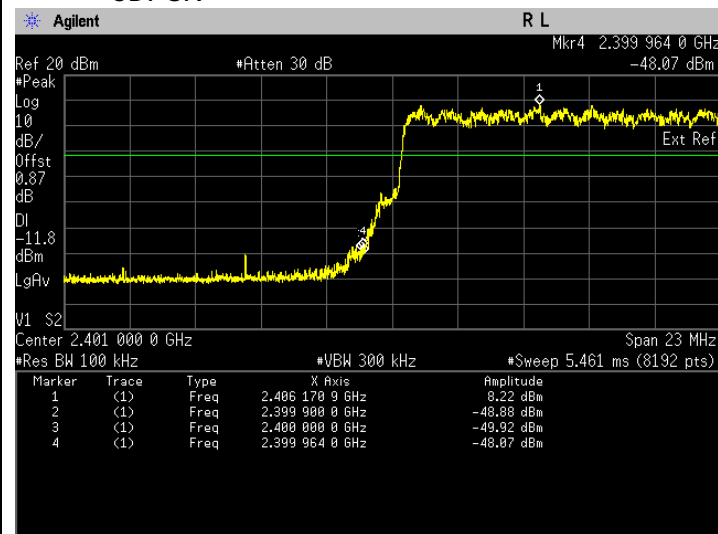
vii. The highest band edge emission at high carrier frequency with hopping function disabled, Pi/4 DQPSK



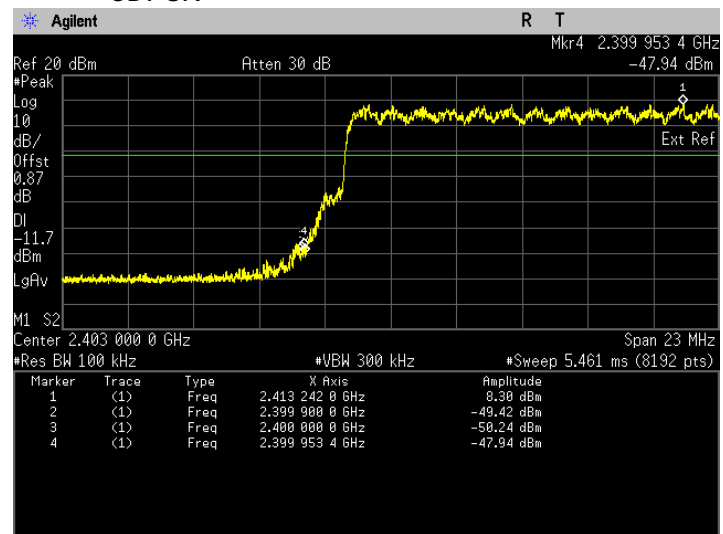
viii. The highest band edge emission at high carrier frequency with hopping function disabled, Pi/4 DQPSK



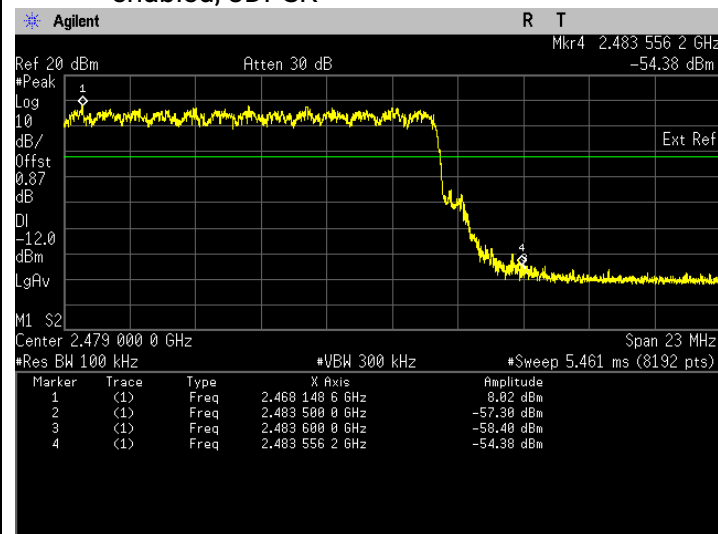
- i. The highest band edge emission at low carrier frequency with hopping function enabled, 8DPSK



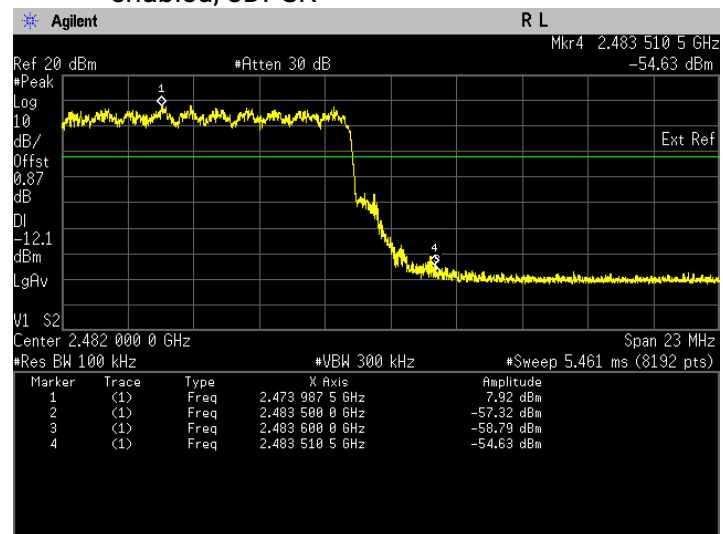
- ii. The highest band edge emission at low carrier frequency with hopping function enabled, 8DPSK



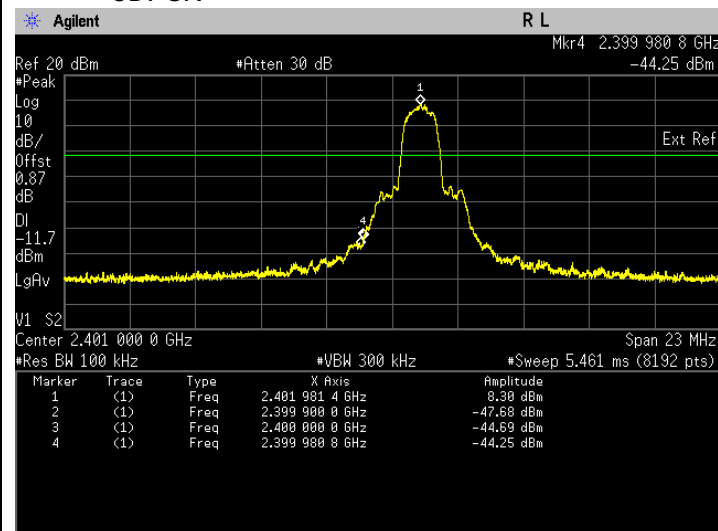
- iii. The highest band edge emission at high carrier frequency with hopping function enabled, 8DPSK



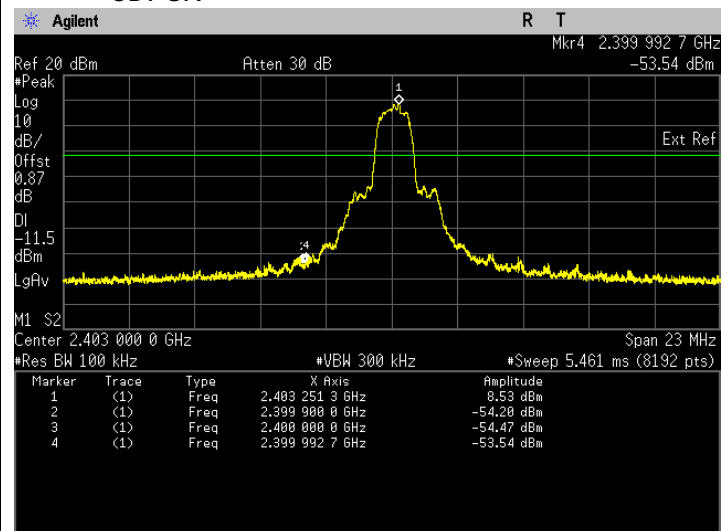
- iv. The highest band edge emission at high carrier frequency with hopping function enabled, 8DPSK



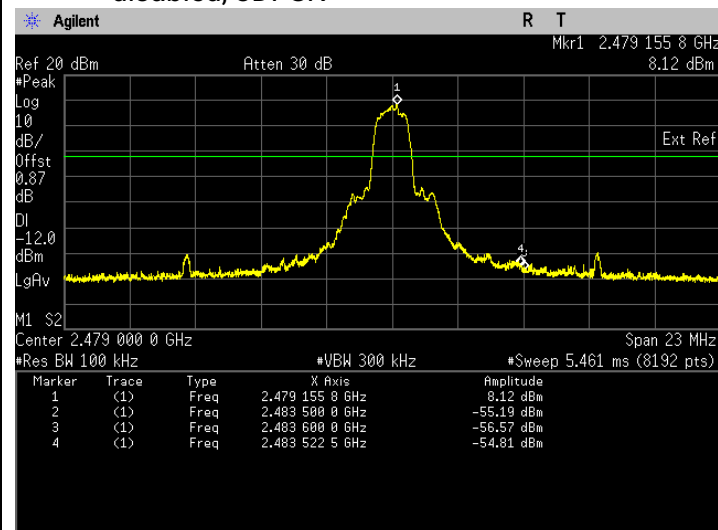
v. The highest band edge emission at low carrier frequency with hopping function disabled, 8DPSK



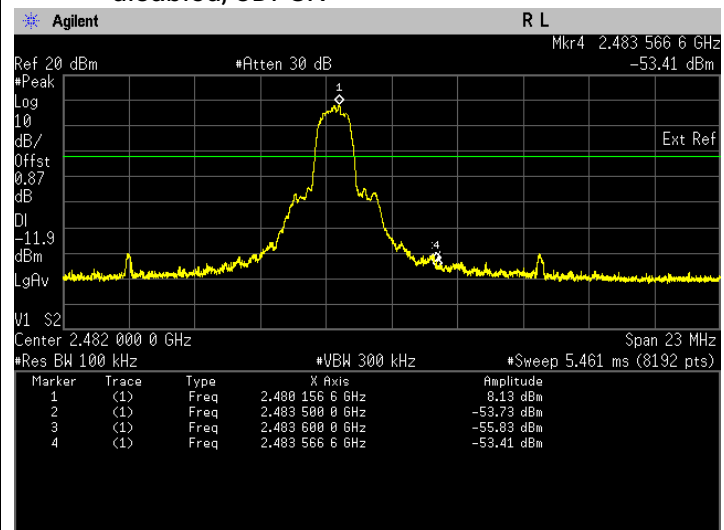
vi. The highest band edge emission at low carrier frequency with hopping function disabled, 8DPSK



vii. The highest band edge emission at high carrier frequency with hopping function disabled, 8DPSK

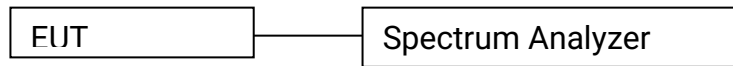


viii. The highest band edge emission at high carrier frequency with hopping function disabled, 8DPSK



6.4. Dwell time on each channel

6.4.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and keep the EUT in hopping mode.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. SPAN = Zero SPAN, center on hopping frequency
 - d. Detector mode = Peak
 - e. Trace = Max hold
 - f. Sweep time = 5second
 - g. Sweep = Single
- e) Measure total numbers of transmissions occur in 5 second and save the plot.
- f) Change the setting of spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. Sweep time = sufficient to capture dwell time for 1 transmission
 - d. Sweep = Single
- g) Measure dwell time for 1 transmission and save the plot.
- h) Calculate accumulate dwell time in a given period equal to number of hopping frequencies x 0.4
- i) Repeat above procedure with other different mode of operation.

6.4.2. Test Limits:

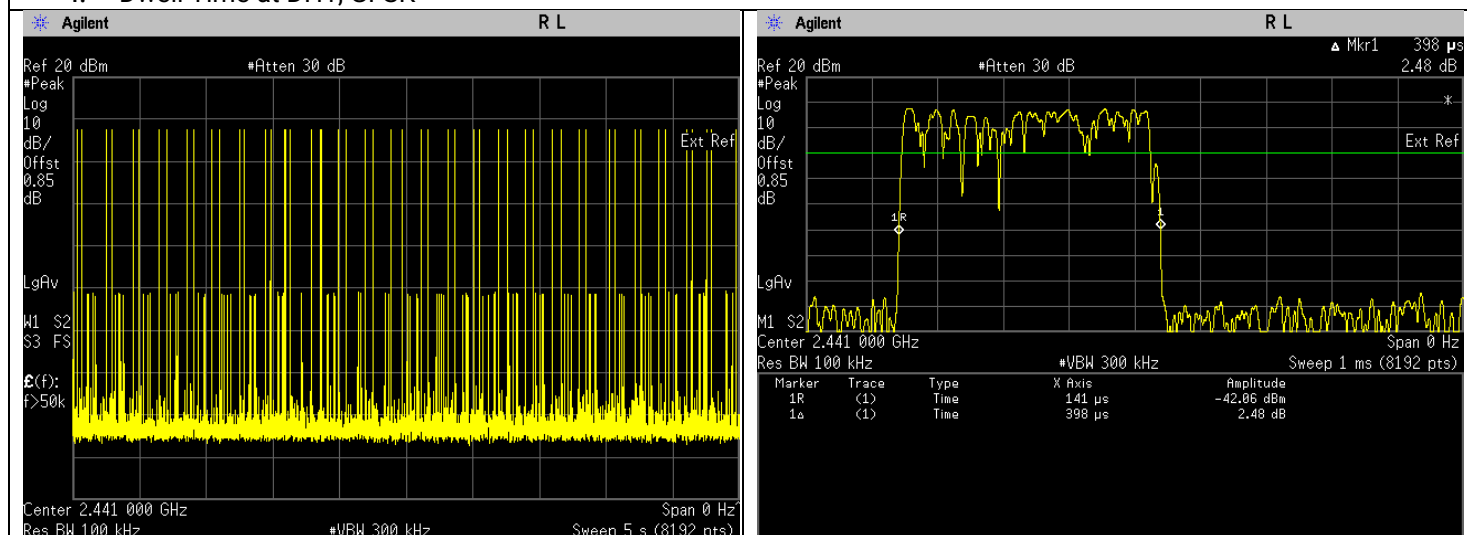
Normal Condition (25 ° C)
≤ 400ms

6.4.3. Test Result

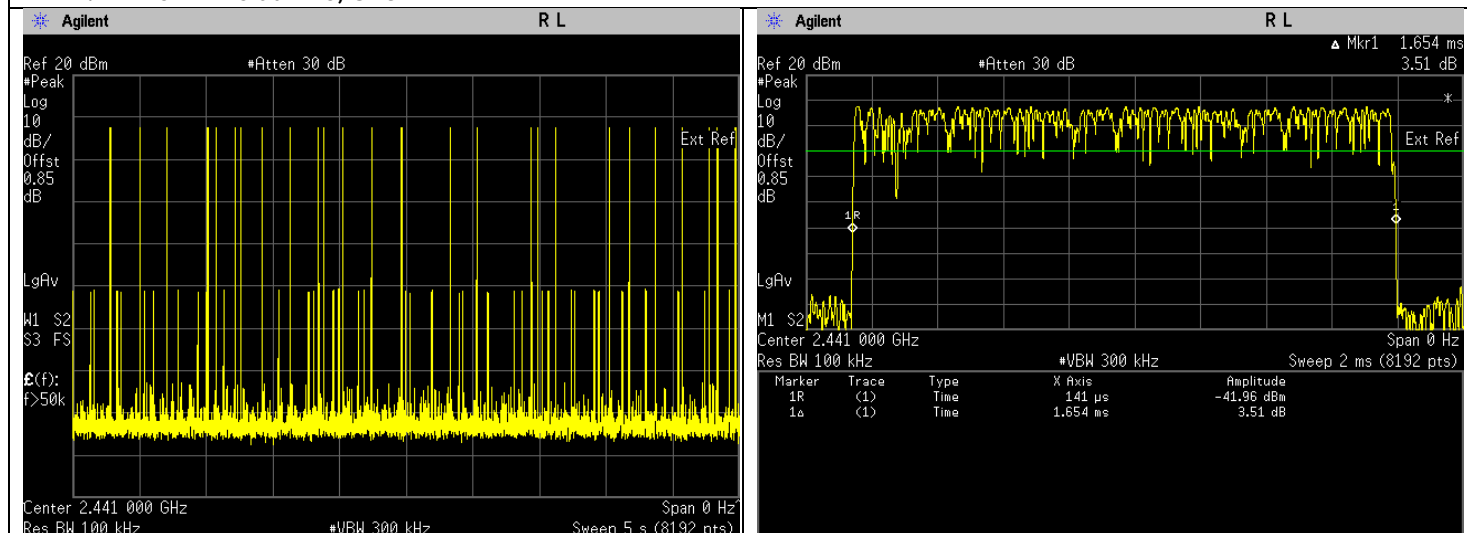
Test Conditions				Results			
Modulation	Voltage (V)	TX Frequency (MHz)	Data Package	No. of transmission in 5s (a)	Dwell time in one transmission (b)	Total accumulate dwell time in 31.6s. (c)	Status
GFSK	13.60	2441	DH1	52	0.398	130.798720	Pass
			DH3	27	1.654	282.238560	Pass
			DH5	18	2.902	330.131520	Pass
Pi/4 DQPSK	13.60	2441	DH1	51	0.401	129.250320	Pass
			DH3	27	1.653	282.067920	Pass
			DH5	14	2.902	256.768960	Pass
8 DPSK	13.60	2441	DH1	51	0.401	129.250320	Pass
			DH3	27	1.651	281.726640	Pass
			DH5	17	2.901	311.683440	Pass

****Note:** Total dwell time 31.6s (79Hopping*0.4), (c) = (a) x 6.32 x (b)

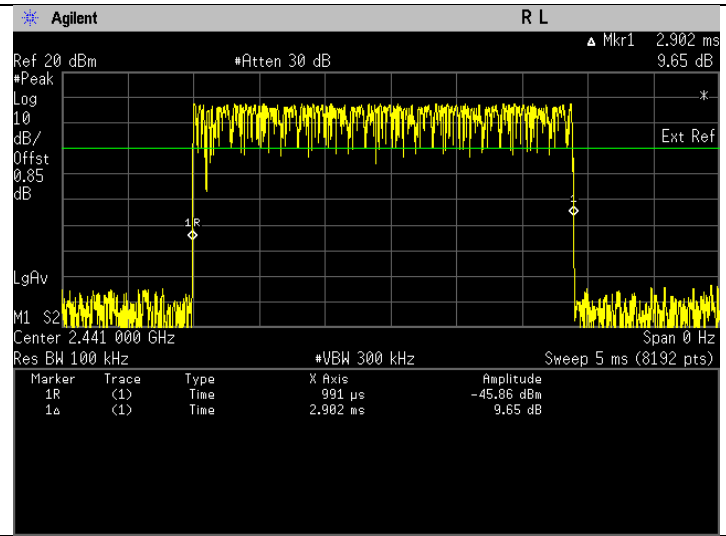
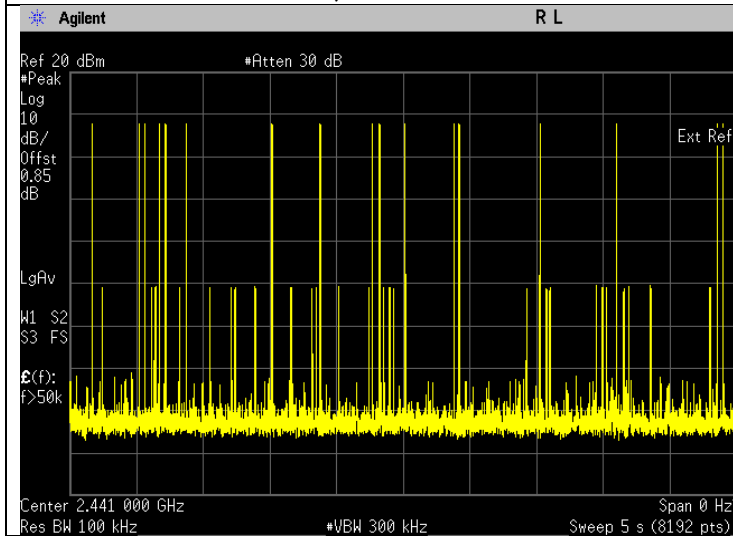
i. Dwell Time at DH1, GFSK



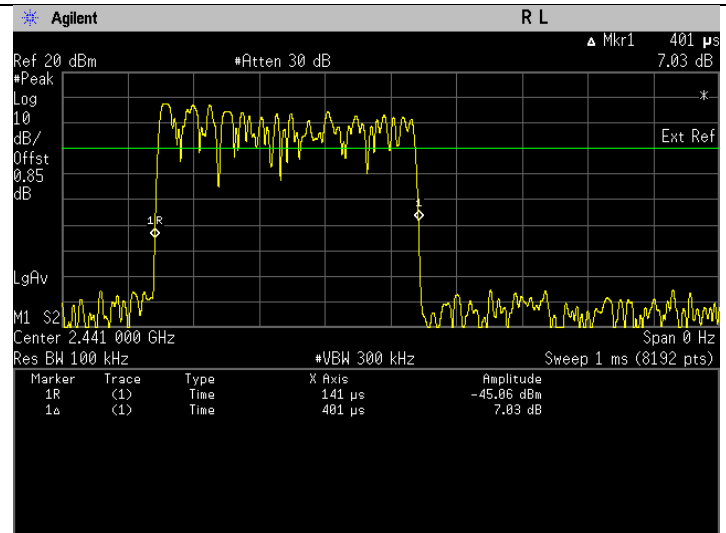
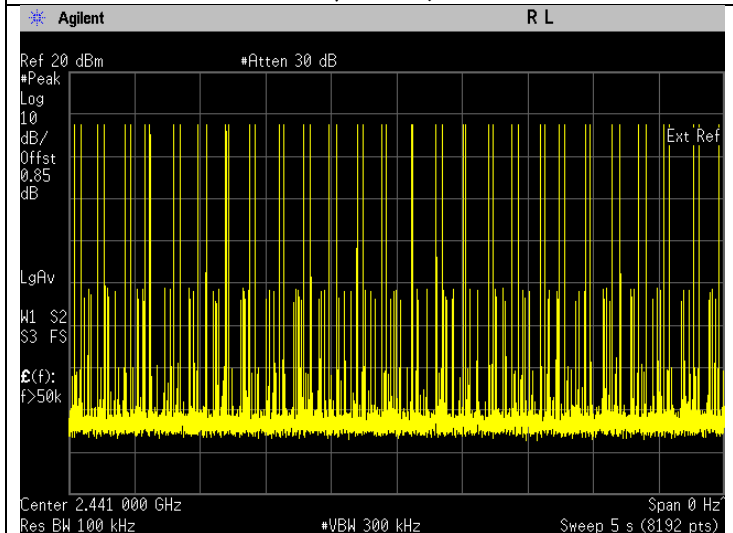
ii. Dwell Time at DH3, GFSK



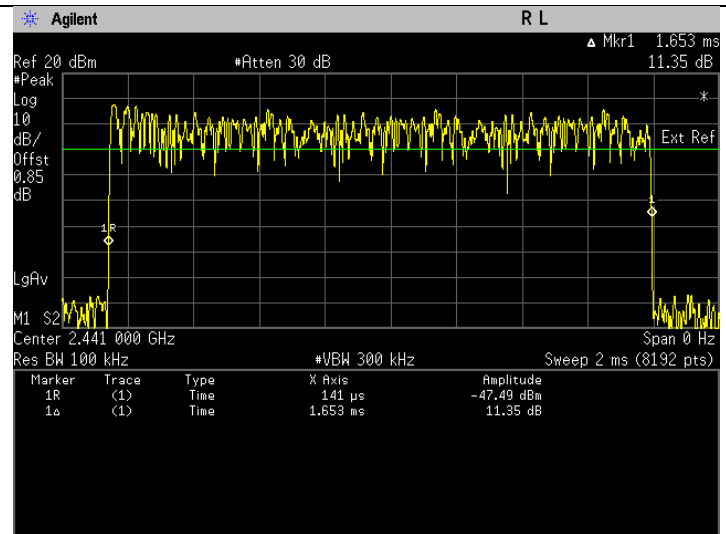
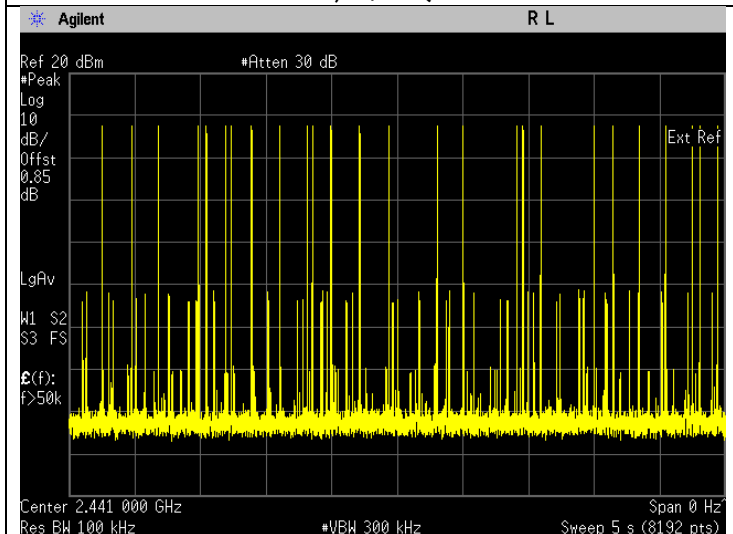
iii. Dwell Time at DH5, GFSK



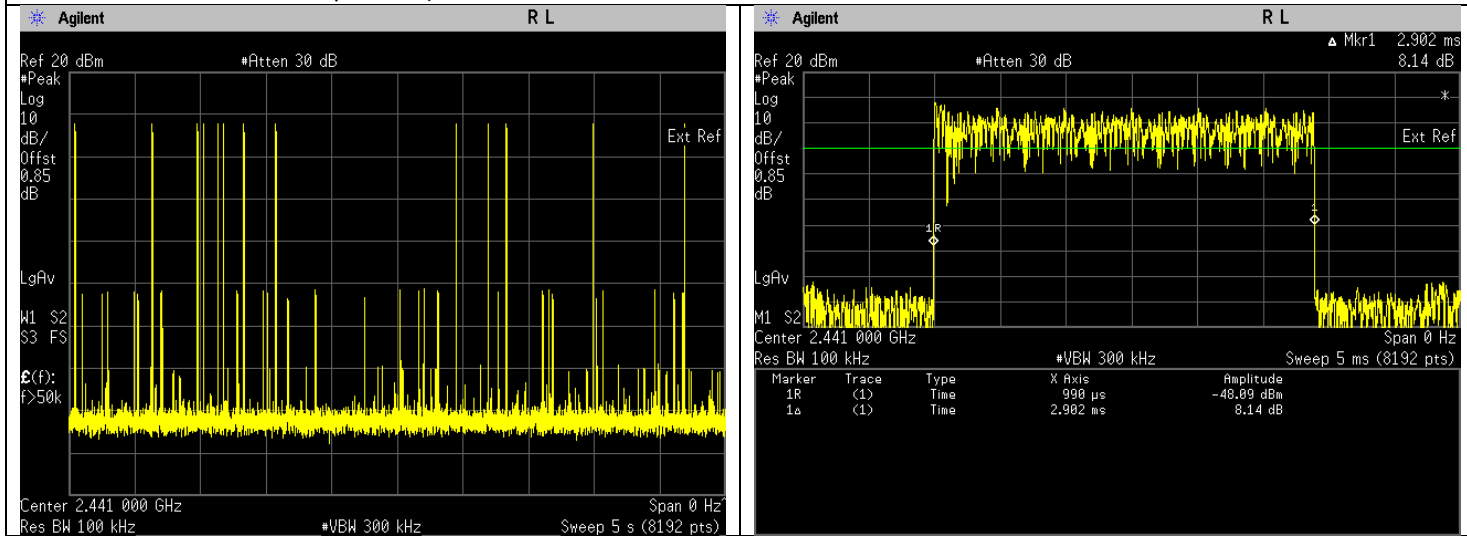
iv. Dwell Time at DH1, PI/4DQPSK



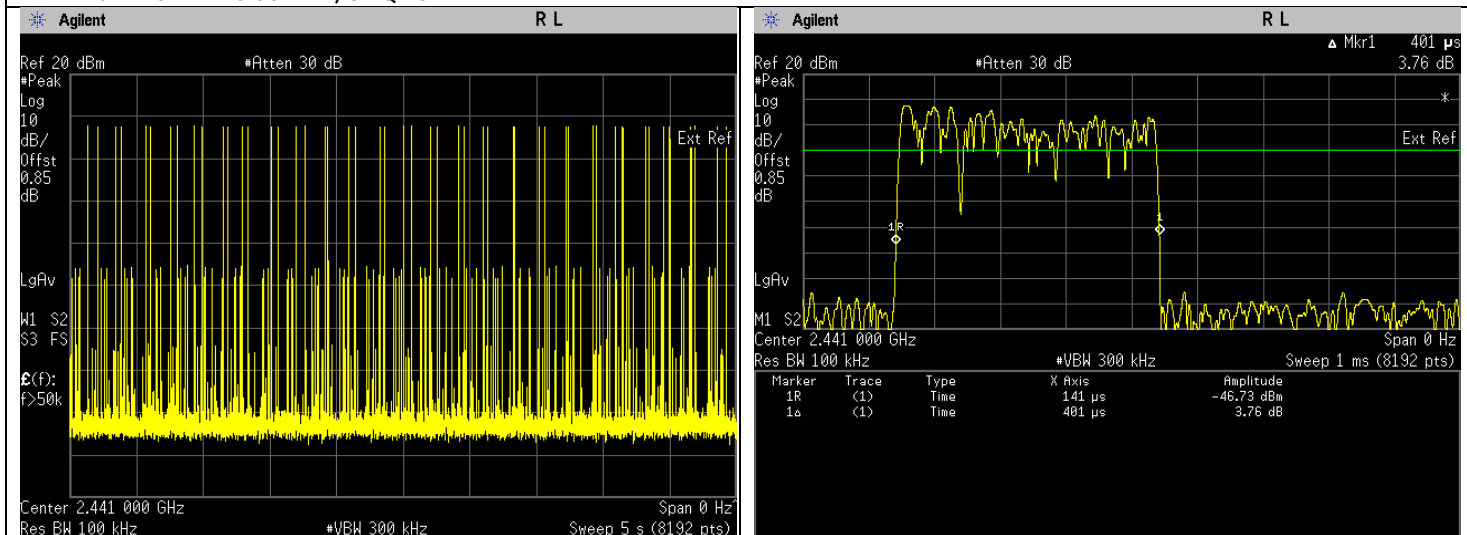
v. Dwell Time at DH3, PI/4DQPSK



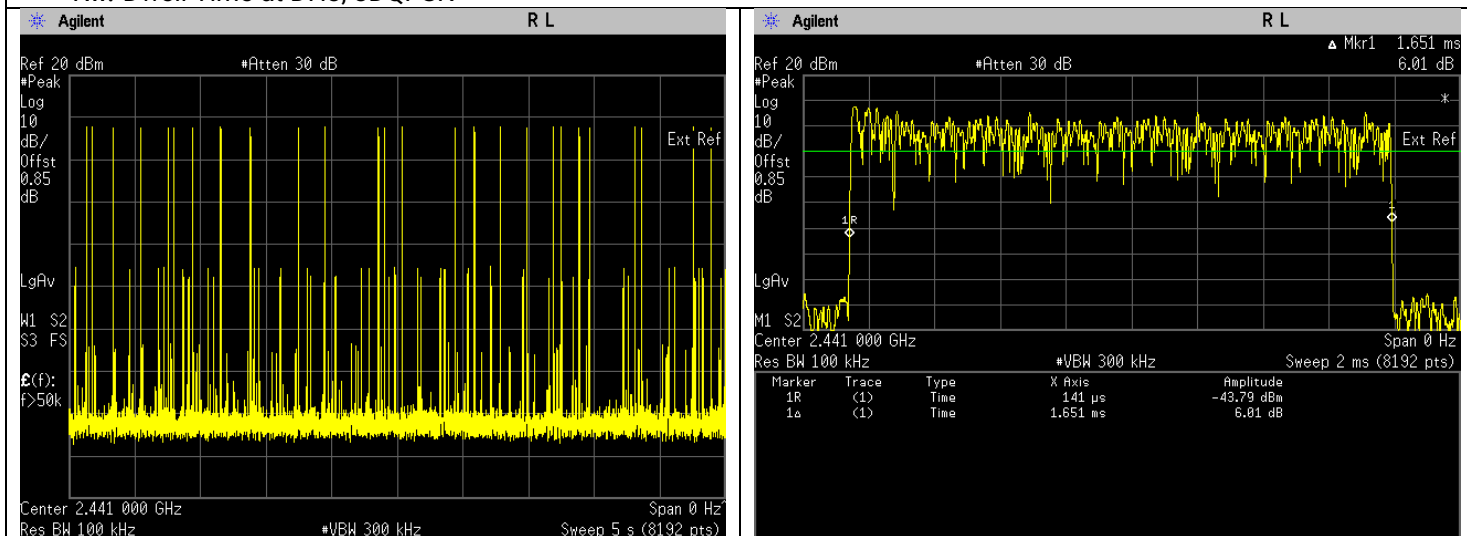
vi. Dwell Time at DH5, PI/4DQPSK



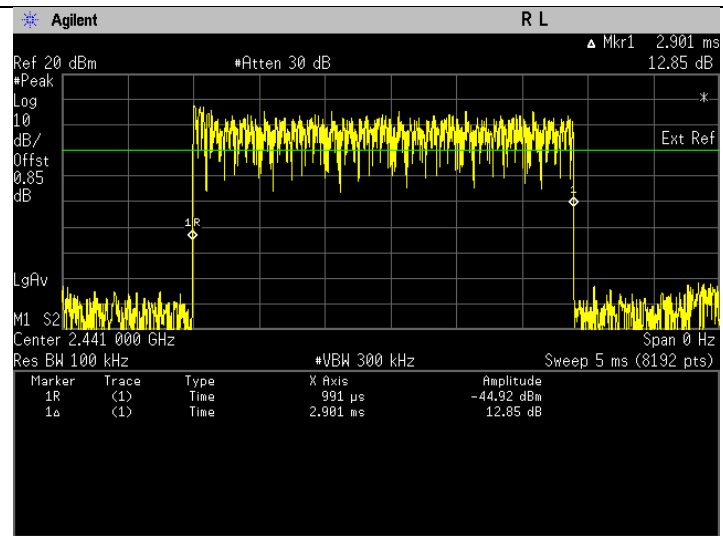
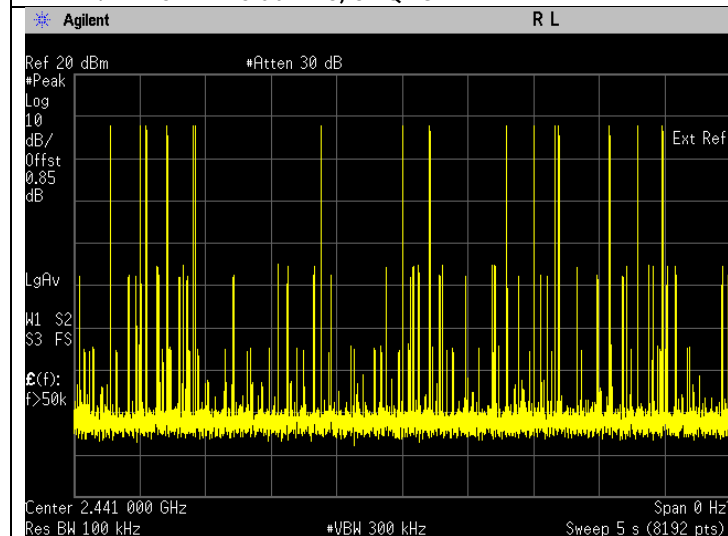
vii. Dwell Time at DH1, 8DQPSK



viii. Dwell Time at DH3, 8DQPSK

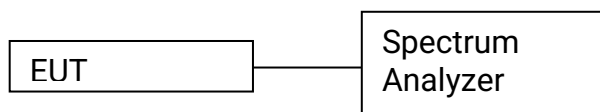


ix. Dwell Time at DH5, 8DQPSK



6.5. Number of hopping Frequency

6.5.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and keep the EUT in hopping mode.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 300 kHz
 - b. VBW = 300 kHz
 - c. Detector mode = Peak
 - d. Trace = Max hold
- e) Allow the trace to stabilized & save the plot result from spectrum analyzer screen.
- f) Count number of channel frequency in the operating.
- g) Repeat above procedure for other test frequency.

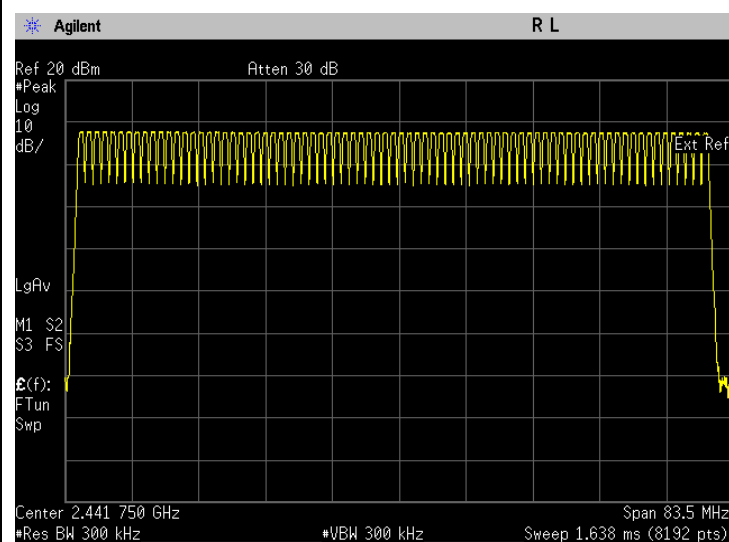
6.5.2. Test Limits:

Normal Condition (25 ° C)
≥ 15

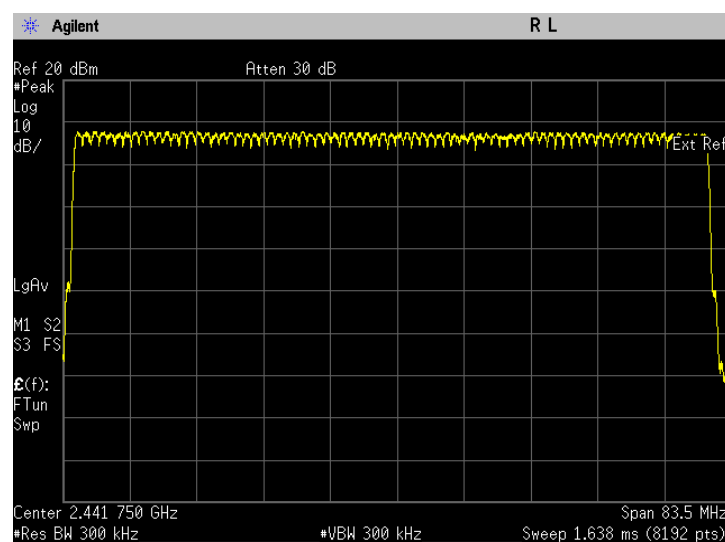
6.5.3. Test Result

Test Conditions			Results	
Modulation	Voltage(V)	Test Frequency (GHz)	No. of Hopping Frequencies	Status
GFSK	13.60	2.4020-2.4835	79	Pass
Pi/4DQPSK	13.60	2.4020-2.4835	79	Pass
8DPSK	13.60	2.4020-2.4835	79	Pass

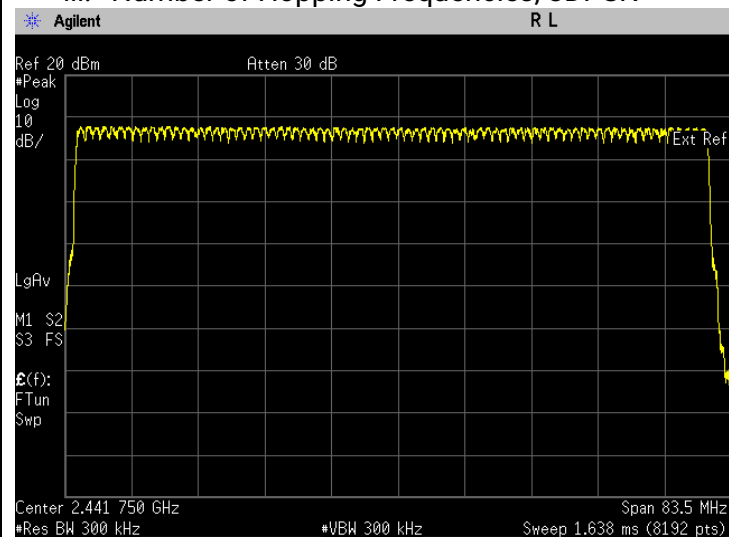
i. Number of Hopping Frequencies, GFSK



ii. Number of Hopping Frequencies, Pi/4 DQPSK

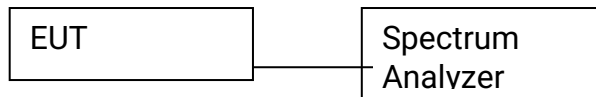


iii. Number of Hopping Frequencies, 8DPSK



6.6.Channel Separation

6.6.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and keep the EUT in hopping mode.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 300 kHz
 - b. VBW = 300 kHz
 - c. SPAN = 3 MHz, center on test frequency
 - d. AMPLITUDE → Scale/Div = 5 dB
 - e. Detector mode = Peak
 - f. Trace = Max hold
 - g. Sweep = auto
- e) Measure the frequency different of these two adjacent channels with marker delta function & record the measurement results.
- f) Repeat above procedure with other different mode of operation.

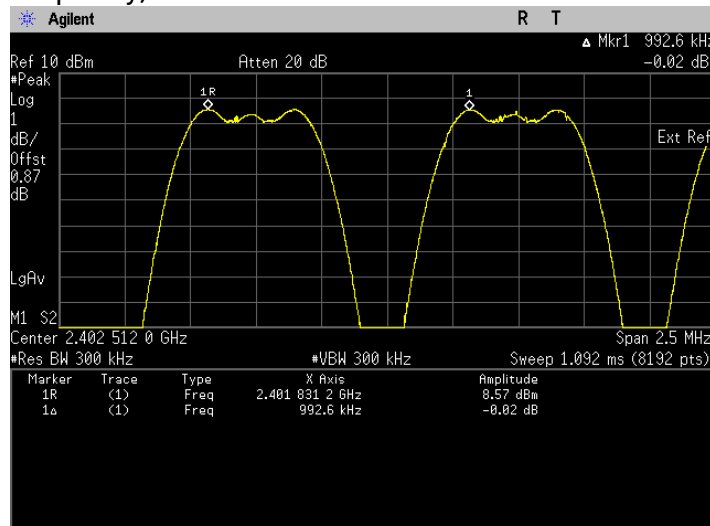
6.6.2. Test Limits:

Normal Condition (25 ° C)
≥ 2/3 of 20dB Bandwidth

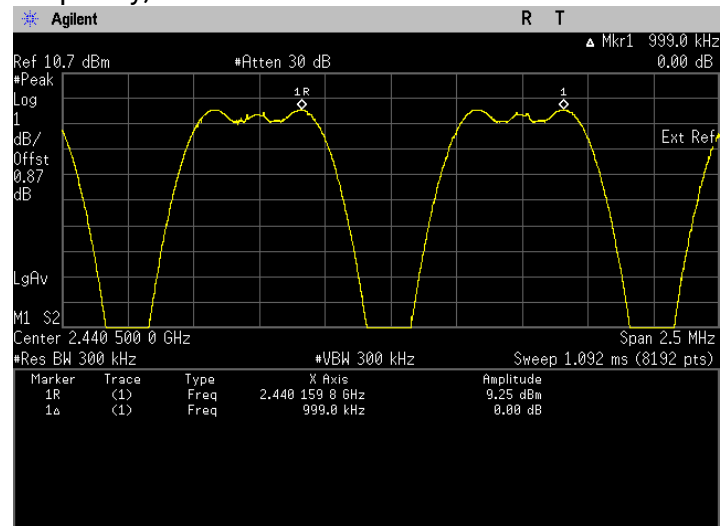
6.6.3. Test Result

Test Conditions			Results			
Modulation	Voltage(V)	Test Frequency (GHz)	Adjacent Channel Separation (MHz)	20dB Bandwidth (MHz)	2/3 of 20dB Bandwidth (kHz)	Status
GFSK	13.60	2.4020	0.993	0.962	641.333	Pass
		2.4410	0.999	0.961	640.667	Pass
		2.4800	1.000	0.962	641.333	Pass
Pi/4DQPSK	13.60	2.4020	1.000	1.335	890.000	Pass
		2.4410	1.000	1.335	890.000	Pass
		2.4800	0.999	1.335	890.000	Pass
8DPSK	13.60	2.4020	0.996	1.319	879.333	Pass
		2.4410	1.006	1.309	872.667	Pass
		2.4800	1.006	1.307	871.333	Pass

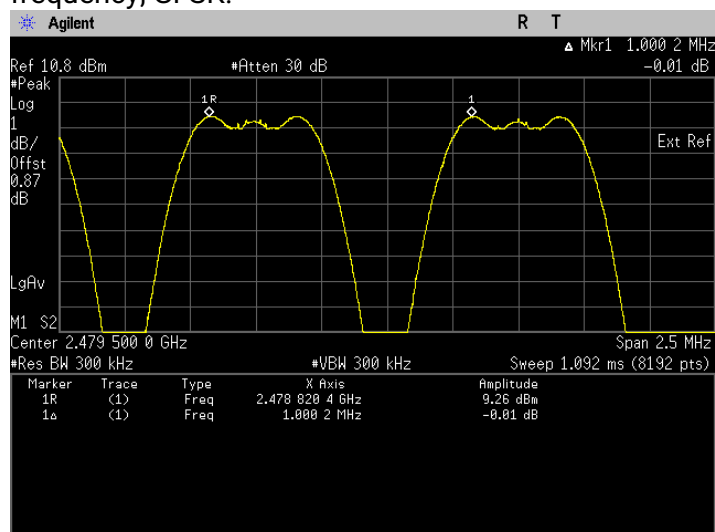
The Conducted RF Output Power test with result at low frequency, GFSK.



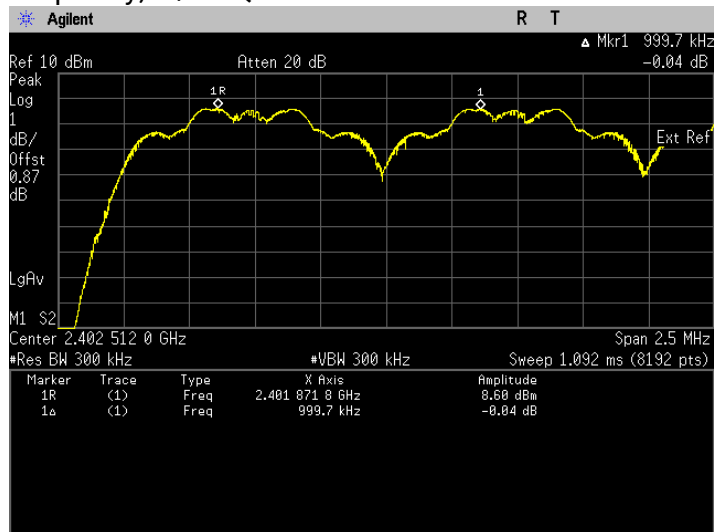
The Conducted RF Output Power test with result at mid frequency, GFSK.



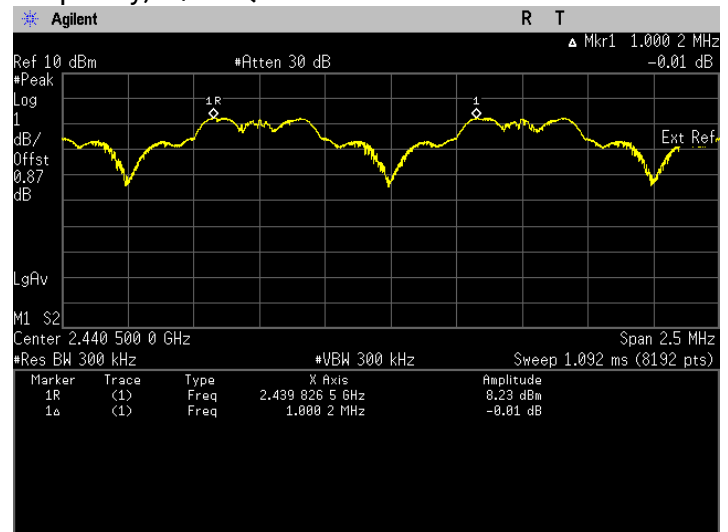
The Conducted RF Output Power test with result at high frequency, GFSK.



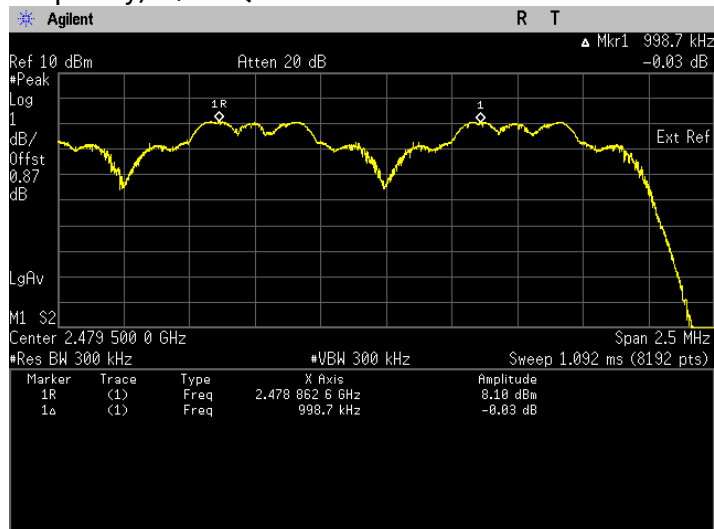
The Conducted RF Output Power test with result at low frequency, Pi/4 DQPSK.



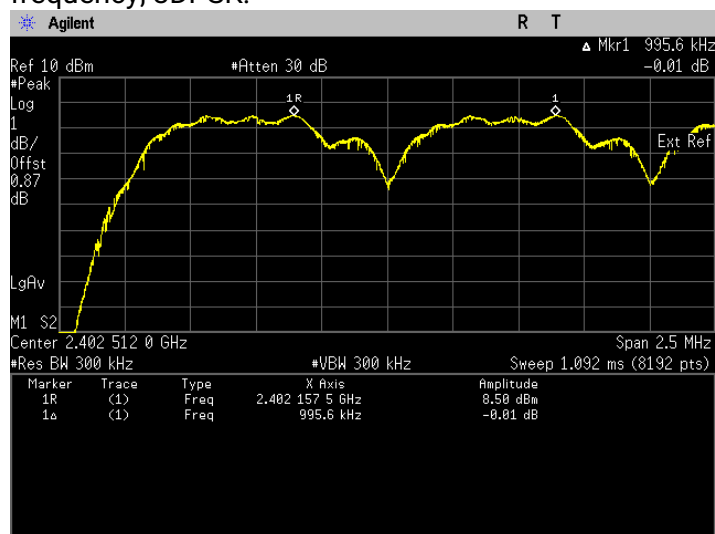
The Conducted RF Output Power test with result at mid frequency, Pi/4 DQPSK.



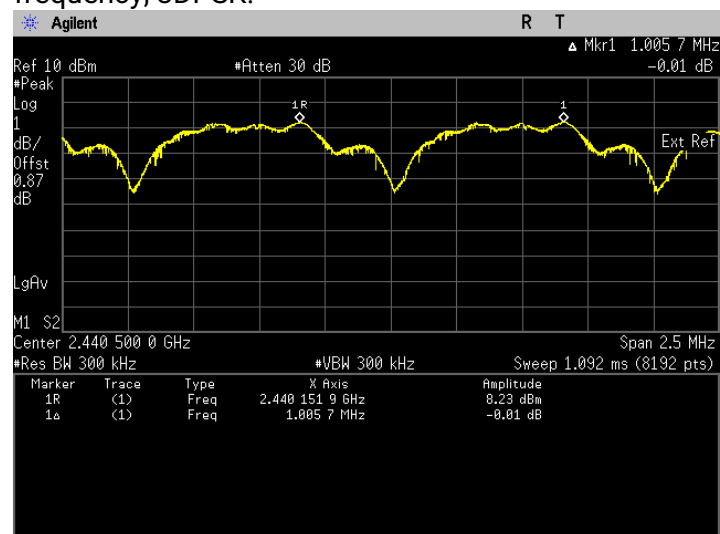
The Conducted RF Output Power test with result at high frequency, Pi/4 DQPSK.



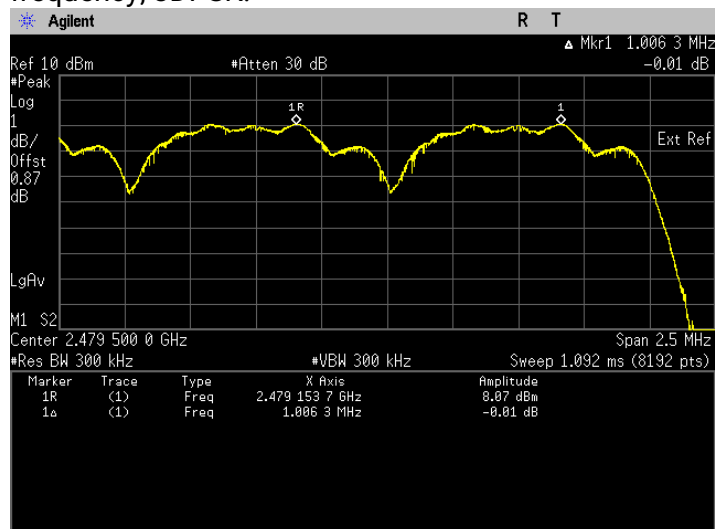
The Conducted RF Output Power test with result at low frequency, 8DPSK.



The Conducted RF Output Power test with result at mid frequency, 8DPSK.

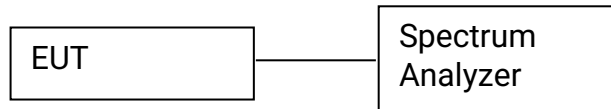


The Conducted RF Output Power test with result at high frequency, 8DPSK.



6.7. Conducted Spurious Emission

6.7.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and set EUT to transmit maximum data rate with hopping disable.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. SPAN = Cover until 10th harmonic
 - d. Detector mode = Peak
 - e. AMPLITUDE → Scale/Div = 10 dB
 - f. Trace = Max hold
 - g. Sweep = auto
- e) Measure the captured spurious emission result and recording the plot.
- f) Repeat above procedure with other different mode of operation.

6.7.2. Test Limits:

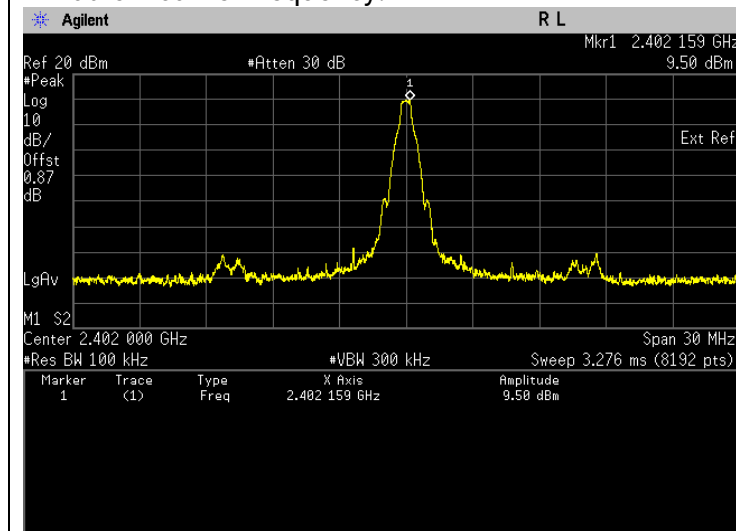
Normal Condition (25 ° C)
Shall be at least 20 dB below for peak power.

6.7.3. Test Data:

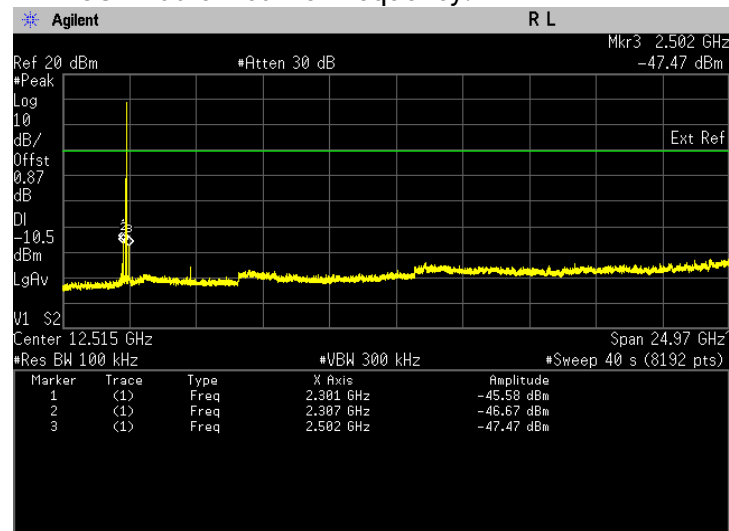
Test Conditions			Results		
Modulation	Voltage(V)	Test Frequency (GHz)	Spurs (MHz)	Level (dBm)	Status
GFSK	13.60	2.4020	2301.000	-45.583	Pass
		2.4030	2502.000	-46.550	Pass
		2.4410	2542.000	-46.137	Pass
		2.4790	2380.000	-44.880	Pass
		2.4800	2377.000	-45.950	Pass
Pi/4 DQPSK	13.60	2.4020	2304.000	-47.897	Pass
		2.4030	2496.000	-52.090	Pass
		2.4410	2542.000	-51.652	Pass
		2.4790	24759.000	-53.980	Pass
		2.4800	2383.000	-50.428	Pass
8DPSK	13.60	2.4020	24997.000	-52.174	Pass
		2.4030	1758.000	-47.780	Pass
		2.4410	1783.000	-48.974	Pass
		2.4790	2472.000	-49.760	Pass
		2.4800	2374.000	-47.537	Pass

GFSK Modulation:

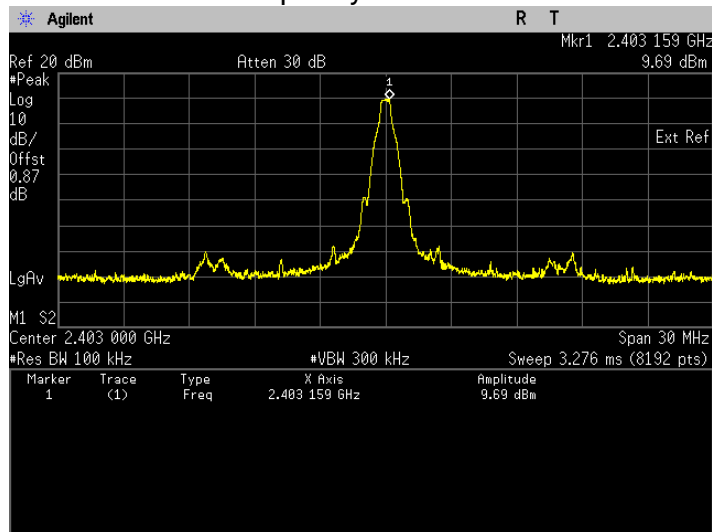
- The high emission level within the assigned band at low carrier frequency.



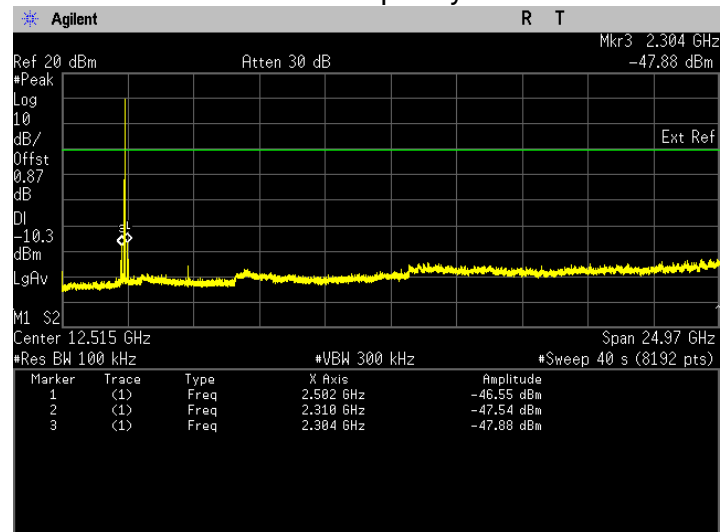
- Spurious emission measurement in 30MHz – 25GHz at low carrier frequency.



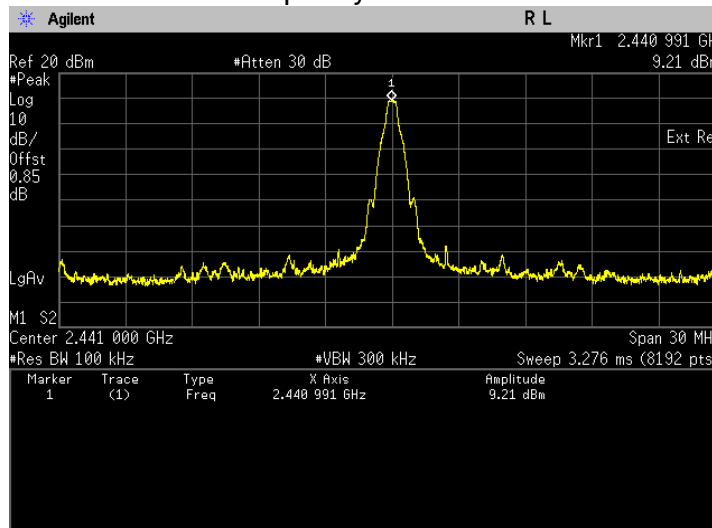
- The high emission level within the assigned band at low carrier frequency.



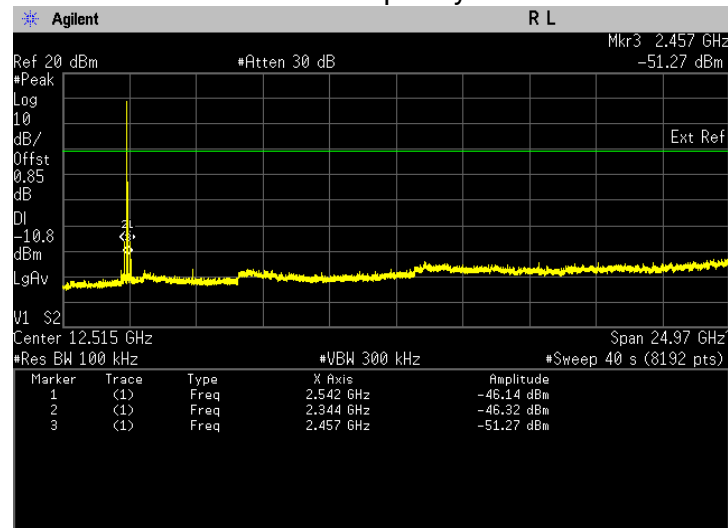
- Spurious emission measurement in 30MHz - 25GHz at low carrier frequency.



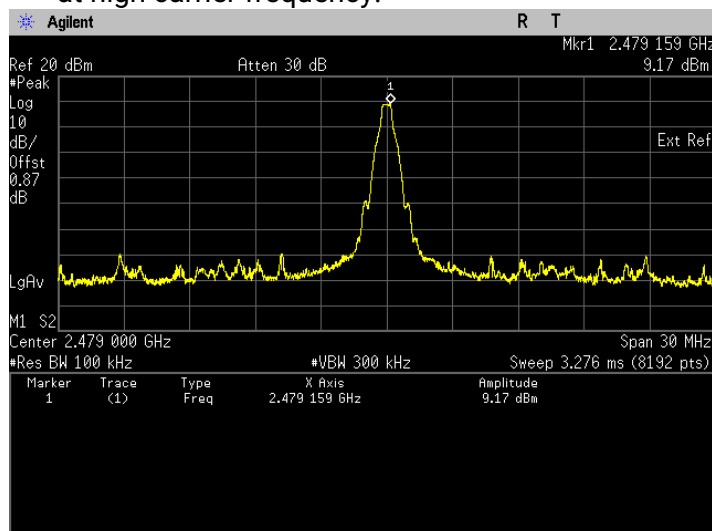
- The high emission level within the assigned band at mid carrier frequency.



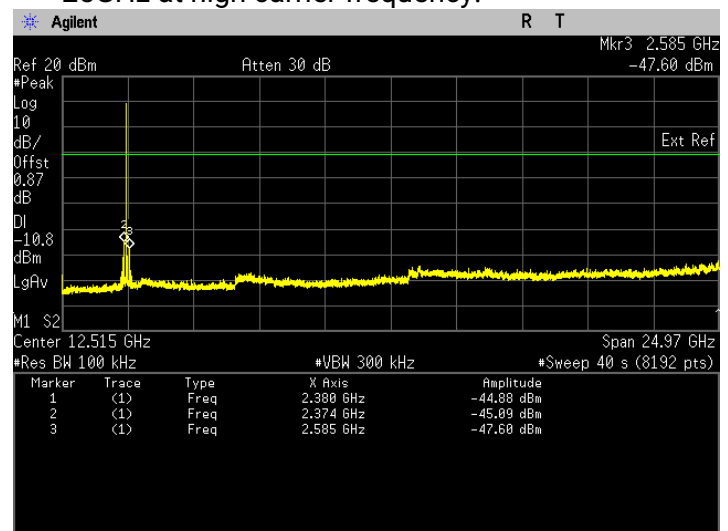
- Spurious emission measurement in 30MHz - 25GHz at mid carrier frequency.

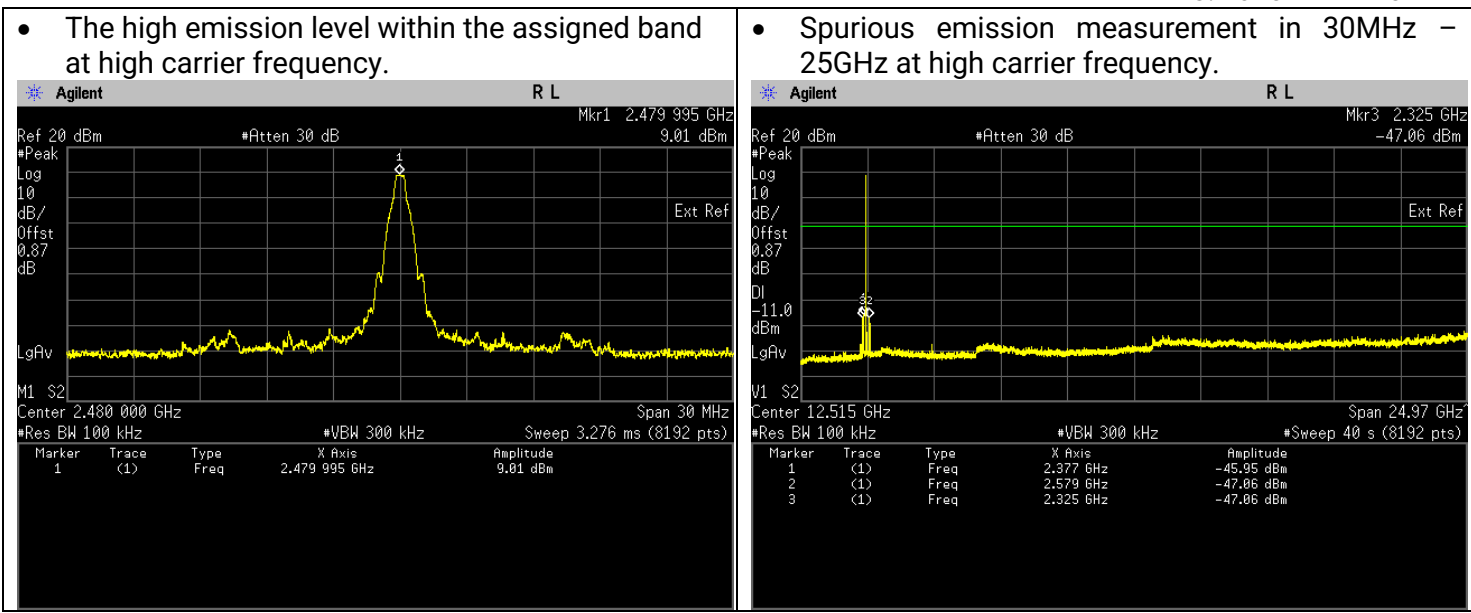


- The high emission level within the assigned band at high carrier frequency.



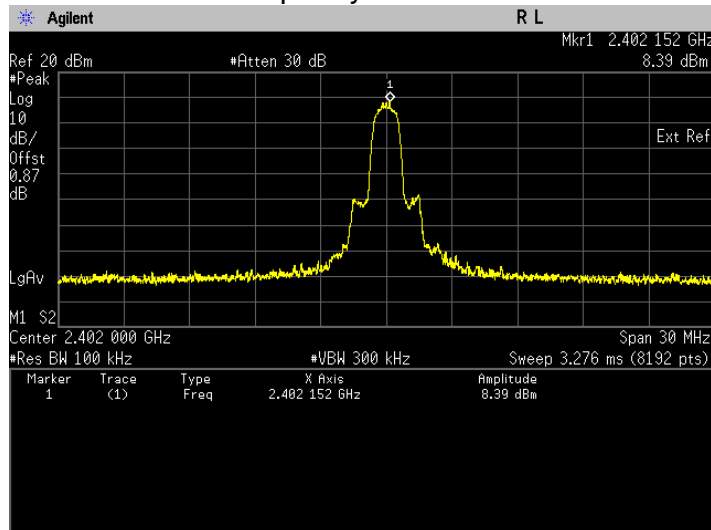
- Spurious emission measurement in 30MHz - 25GHz at high carrier frequency.



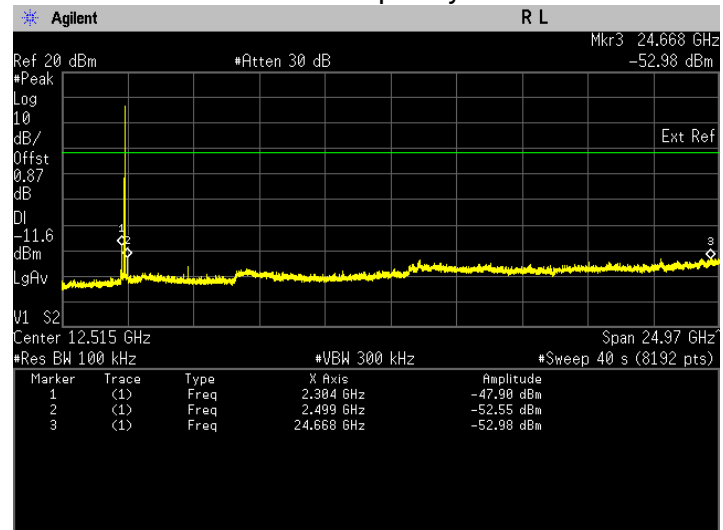


Pi/4 DQPSK Modulation:

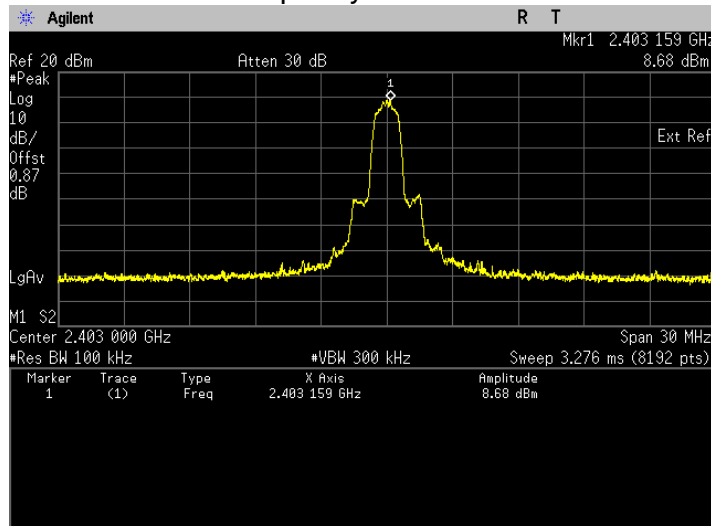
- The high emission level within the assigned band at low carrier frequency.



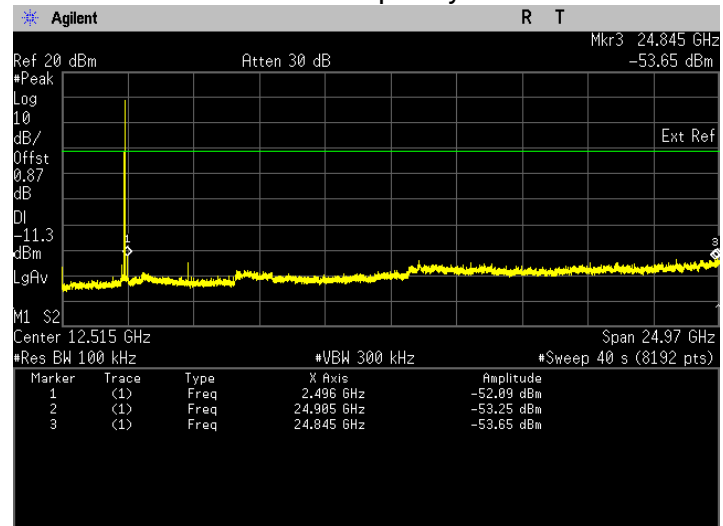
- Spurious emission measurement in 30MHz – 25GHz at low carrier frequency.



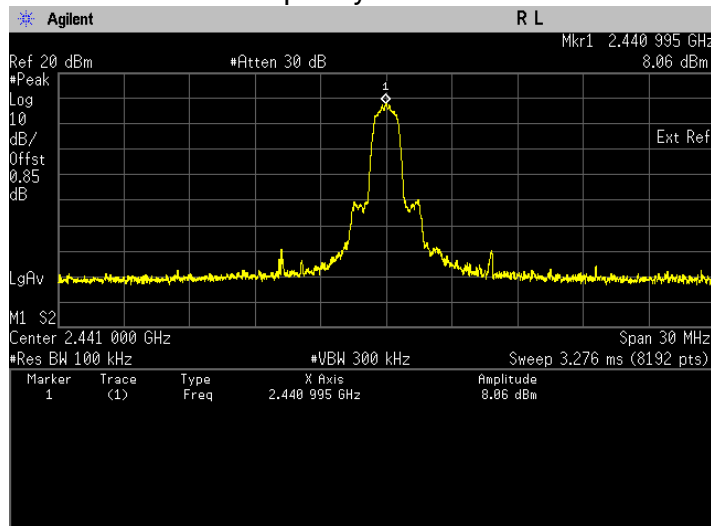
- The high emission level within the assigned band at low carrier frequency.



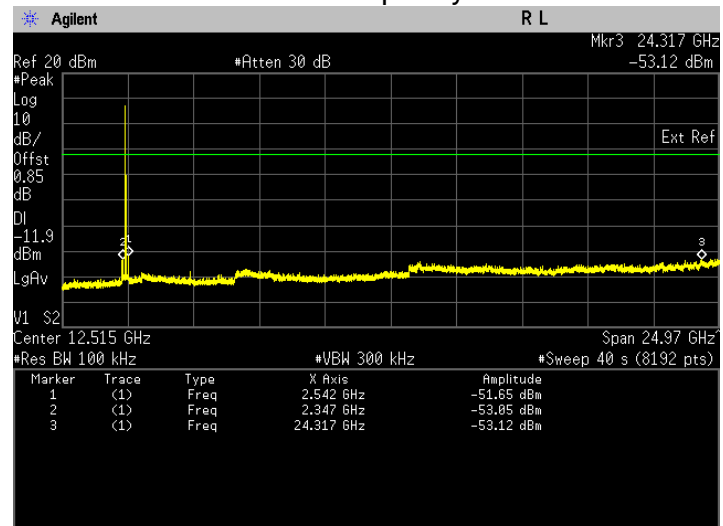
- Spurious emission measurement in 30MHz – 25GHz at low carrier frequency.



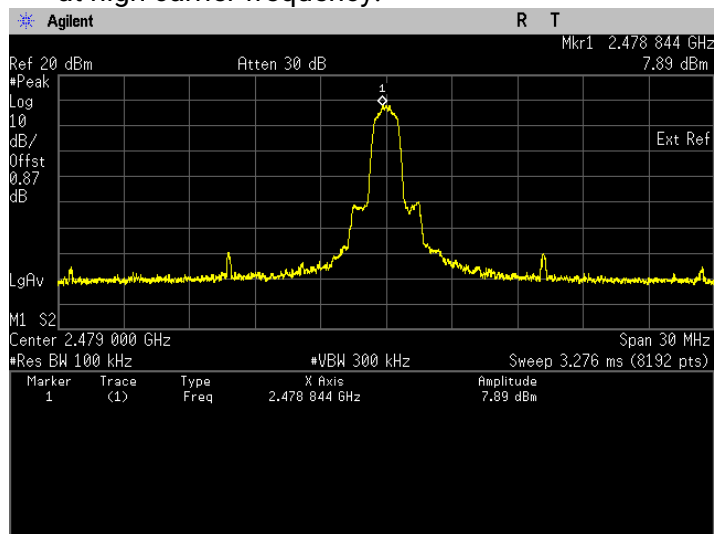
- The high emission level within the assigned band at mid carrier frequency.



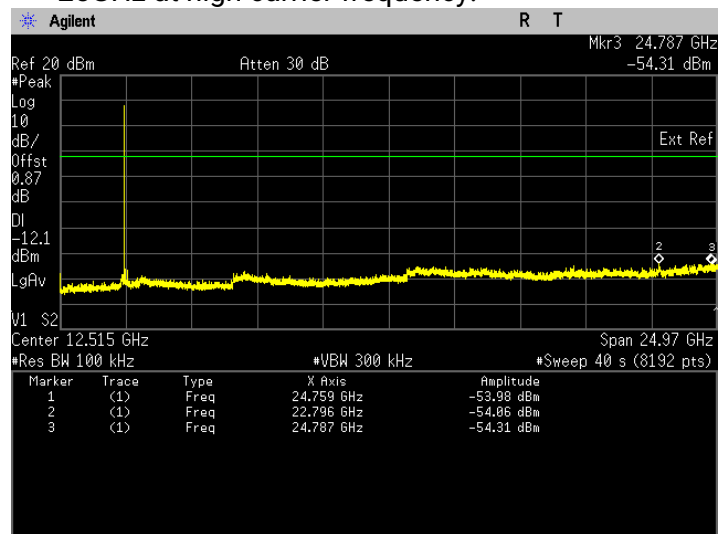
- Spurious emission measurement in 30MHz – 25GHz at mid carrier frequency.



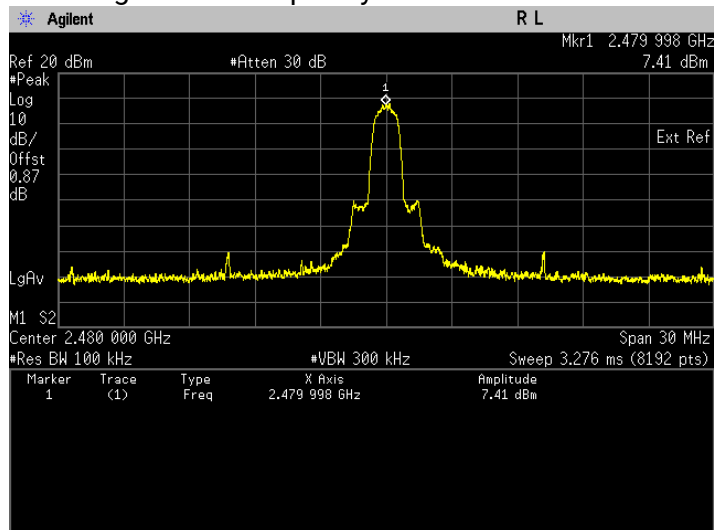
- The high emission level within the assigned band at high carrier frequency.



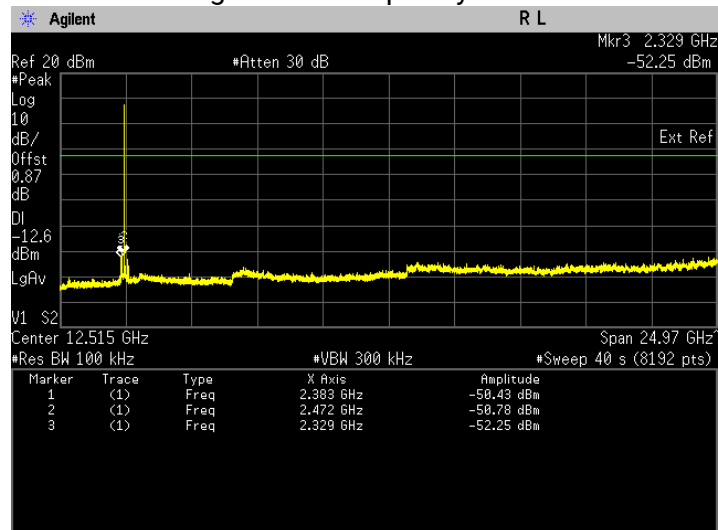
- Spurious emission measurement in 30MHz – 25GHz at high carrier frequency.



- The high emission level within the assigned band at high carrier frequency.

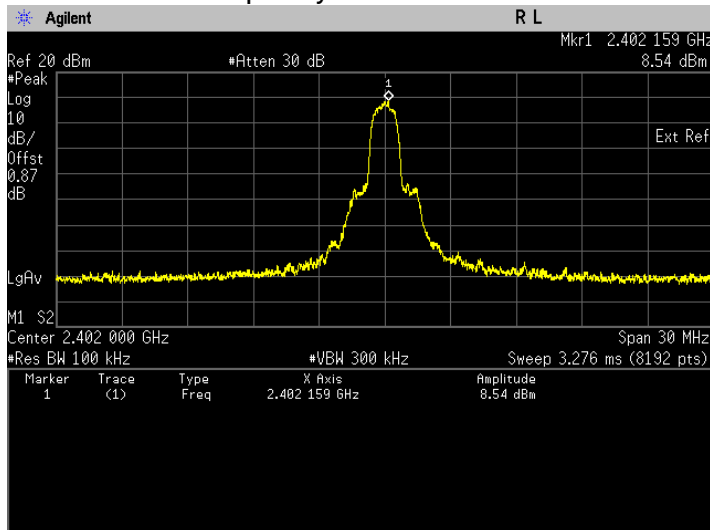


- Spurious emission measurement in 30MHz – 25GHz at high carrier frequency.

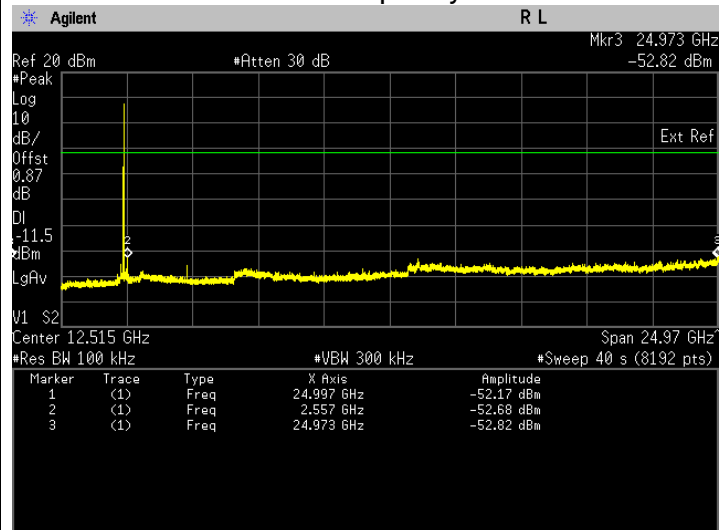


8DPSK Modulation:

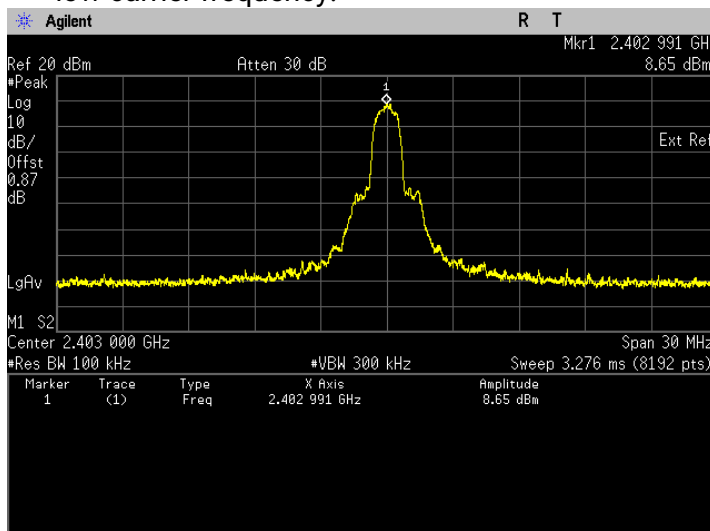
- The high emission level within the assigned band at low carrier frequency.



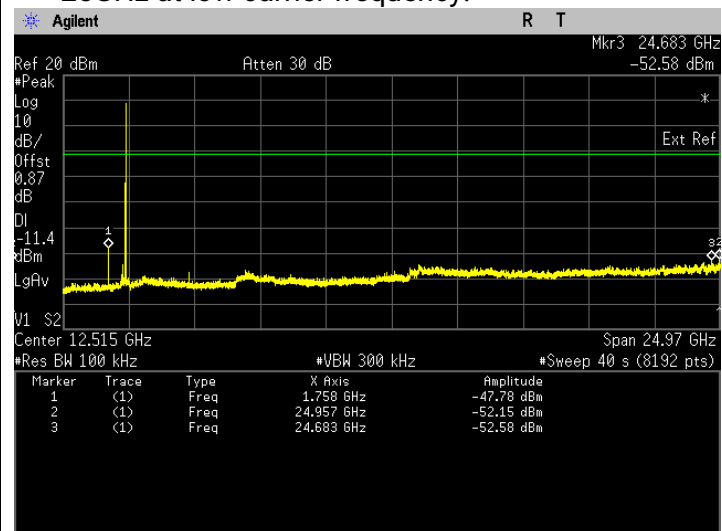
- Spurious emission measurement in 30MHz – 25GHz at low carrier frequency.



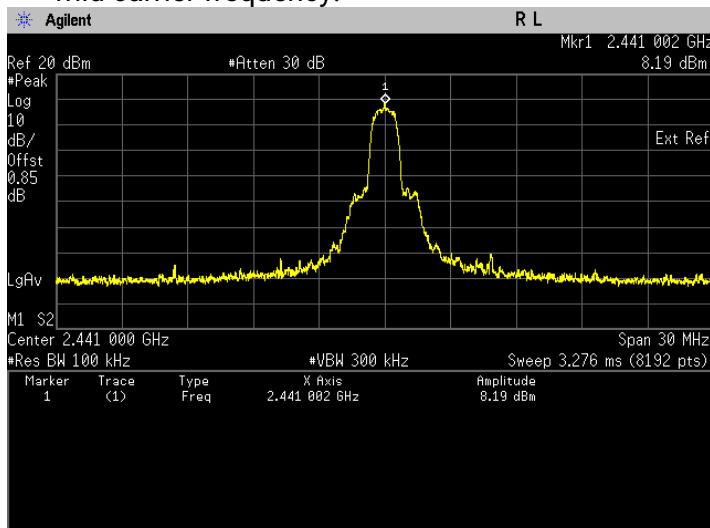
- The high emission level within the assigned band at low carrier frequency.



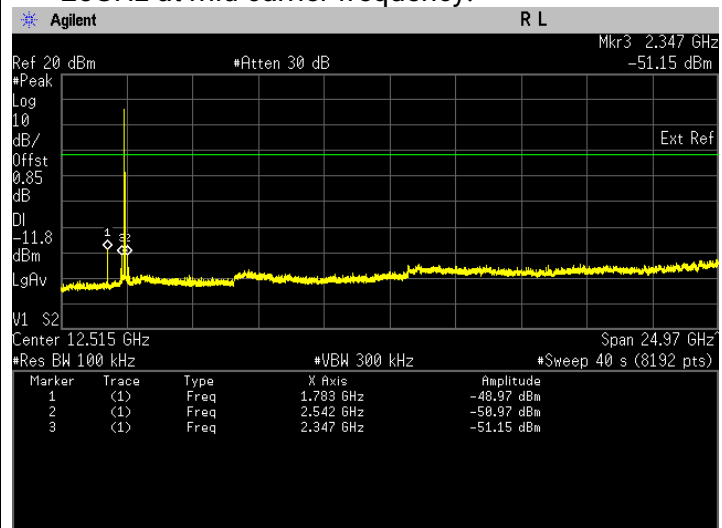
- Spurious emission measurement in 30MHz – 25GHz at low carrier frequency.



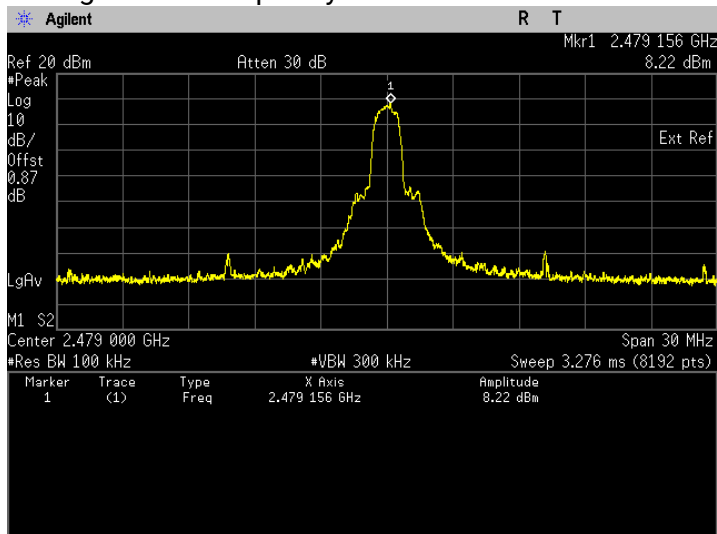
- The high emission level within the assigned band at mid carrier frequency.



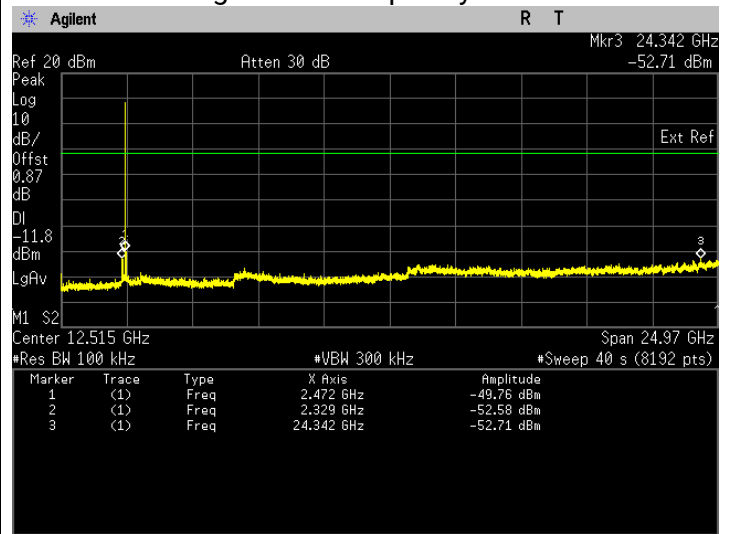
- Spurious emission measurement in 30MHz – 25GHz at mid carrier frequency.



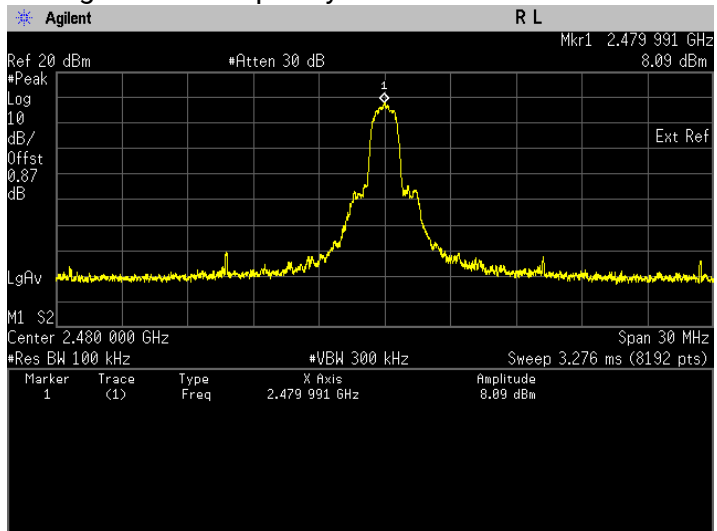
- The high emission level within the assigned band at high carrier frequency.



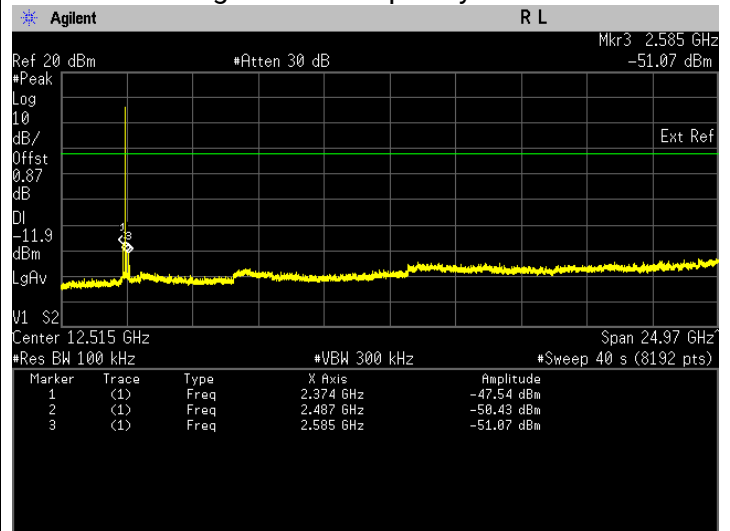
- Spurious emission measurement in 30MHz - 25GHz at high carrier frequency.



- The high emission level within the assigned band at high carrier frequency.

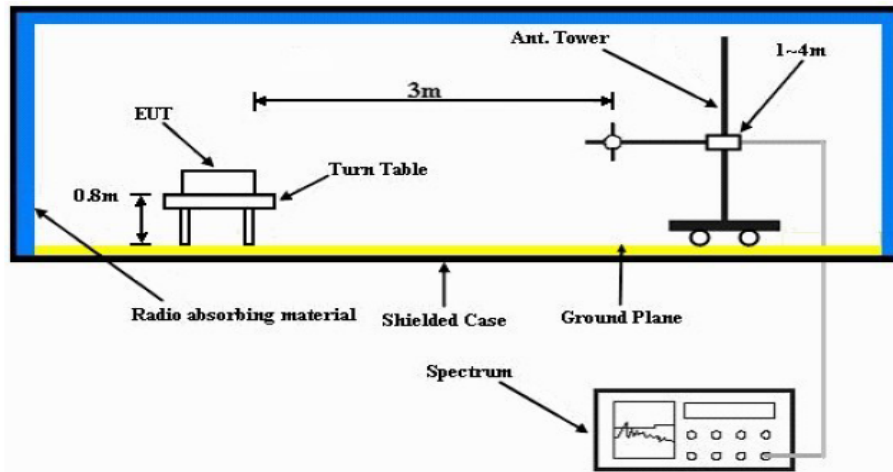


- Spurious emission measurement in 30MHz - 25GHz at high carrier frequency.



6.8. Radiated Emission within restricted Bands

6.8.1. Test Setup



- The EUT is placed on the top of a rotating table 0.8m (<1GHz) or 1.5m (>1GHz) above the ground at a 3m semi-anechoic chamber. The table is rotated 360 degrees to determine the position of the highest radiation.
- The EUT is set 3m away from the interference-receiving antenna, which is mounted on the top of a variable-height antenna tower.
- The antenna is Bilog/Horn antenna depend on which frequency range uses, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT is arranged to its worst case and then the antenna is tuned to heights from 1m to 4m and the rotatable table is turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system is set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode is fall within the range of 10dB from the limit specified, the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Otherwise, the testing could be stopped and the peak values of the EUT would be reported.

NOTE:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

6.8.2. Test Limits:

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

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

NOTE:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

6.8.3. Test Data:

SAC TX Restricted Band-edge : 1467N00-EMC-00042

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1512
Battery :	-	Charger :	-
Accessory :	HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01		
Test Mode :	BT - GFSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2402.0000	Softpot Power :	10.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	Voltage (V) :	120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	2376.6930	48.83 *	74.00	25.17
Horizontal	Peak	2384.9250	47.84 *	74.00	26.16
Vertical	Average	2390.0000	36.02	54.00	17.98
Horizontal	Average	2390.0000	35.08	54.00	18.92
Vertical	Peak	2390.0000	45.98 *	74.00	28.02
Horizontal	Peak	2390.0000	46.21 *	74.00	27.79

Temperature (°C) :	23.6	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sat, 11 Apr, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

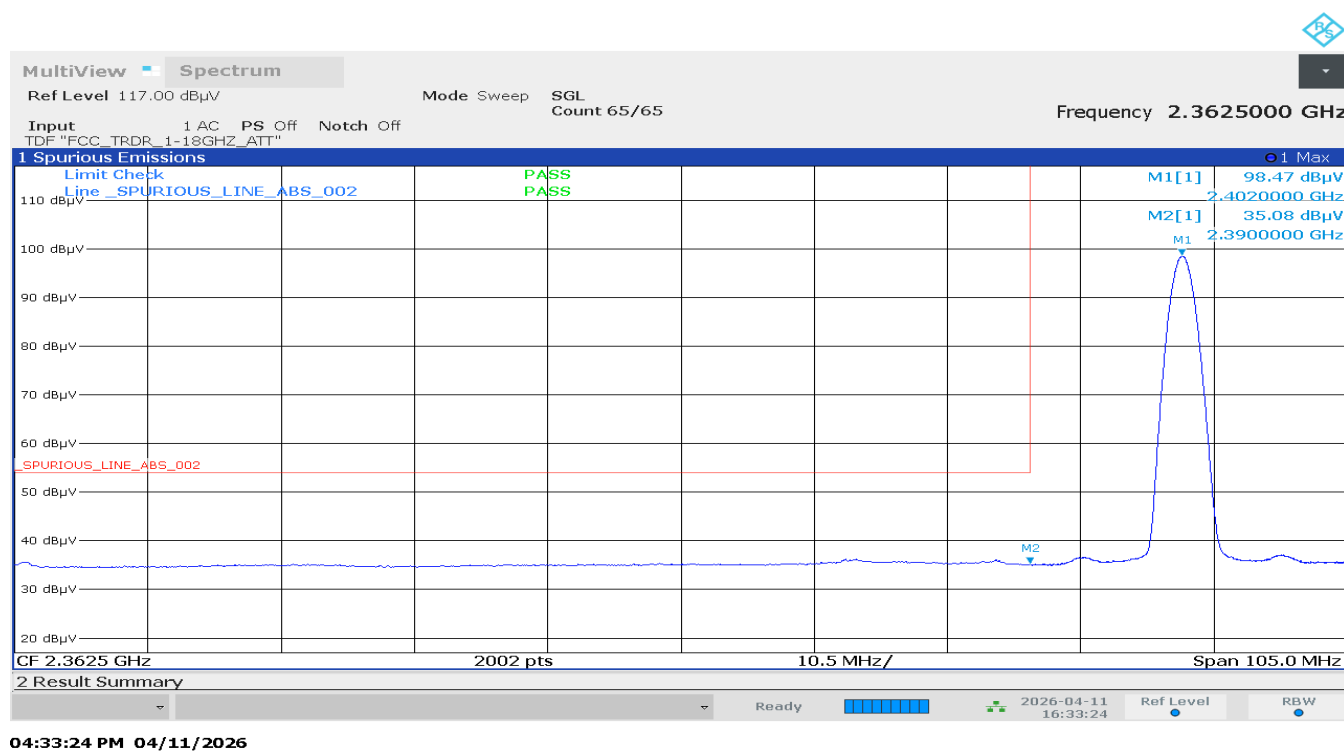
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

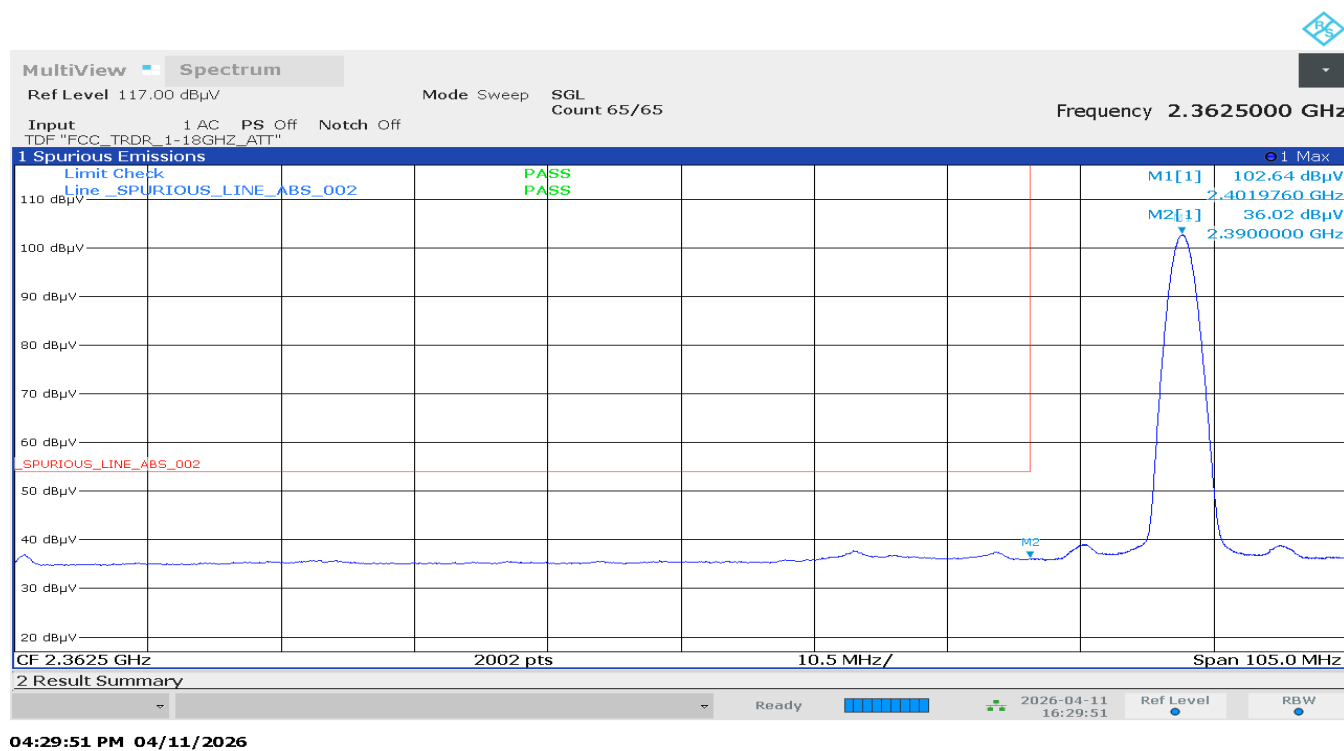
- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



SAC TX Restricted Band-edge : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1,
PS000280A02-CF1, 3087791G01
Test Mode : BT - GFSK Channel SP/Bandwidth (kHz) : 1000.0000
Test Frequency (MHz) : 2480.0000 Softpot Power : 10.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. Voltage (V) : 120.00
1-2023+C63.10a-2024 +
Errata to C63.10a-2024

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Average	2483.5000	40.02	54.00	13.98
Horizontal	Average	2483.5000	36.10	54.00	17.90
Vertical	Peak	2483.5000	47.54 *	74.00	26.46
Horizontal	Peak	2483.5000	45.72 *	74.00	28.28
Horizontal	Peak	2484.2170	46.38 *	74.00	27.62
Horizontal	Peak	2484.8100	47.38 *	74.00	26.62
Vertical	Peak	2484.9260	50.92 *	74.00	23.08
Horizontal	Peak	2487.9260	46.27 *	74.00	27.73
Horizontal	Peak	2490.9750	46.41 *	74.00	27.59
Horizontal	Peak	2491.7670	45.98 *	74.00	28.02
Horizontal	Peak	2496.4810	46.42 *	74.00	27.58
Horizontal	Peak	2498.7060	46.25 *	74.00	27.75
Horizontal	Peak	2498.8710	46.21 *	74.00	27.79
Horizontal	Peak	2499.4970	46.46 *	74.00	27.54
Horizontal	Peak	2499.9750	45.66 *	74.00	28.34

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Sat, 11 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

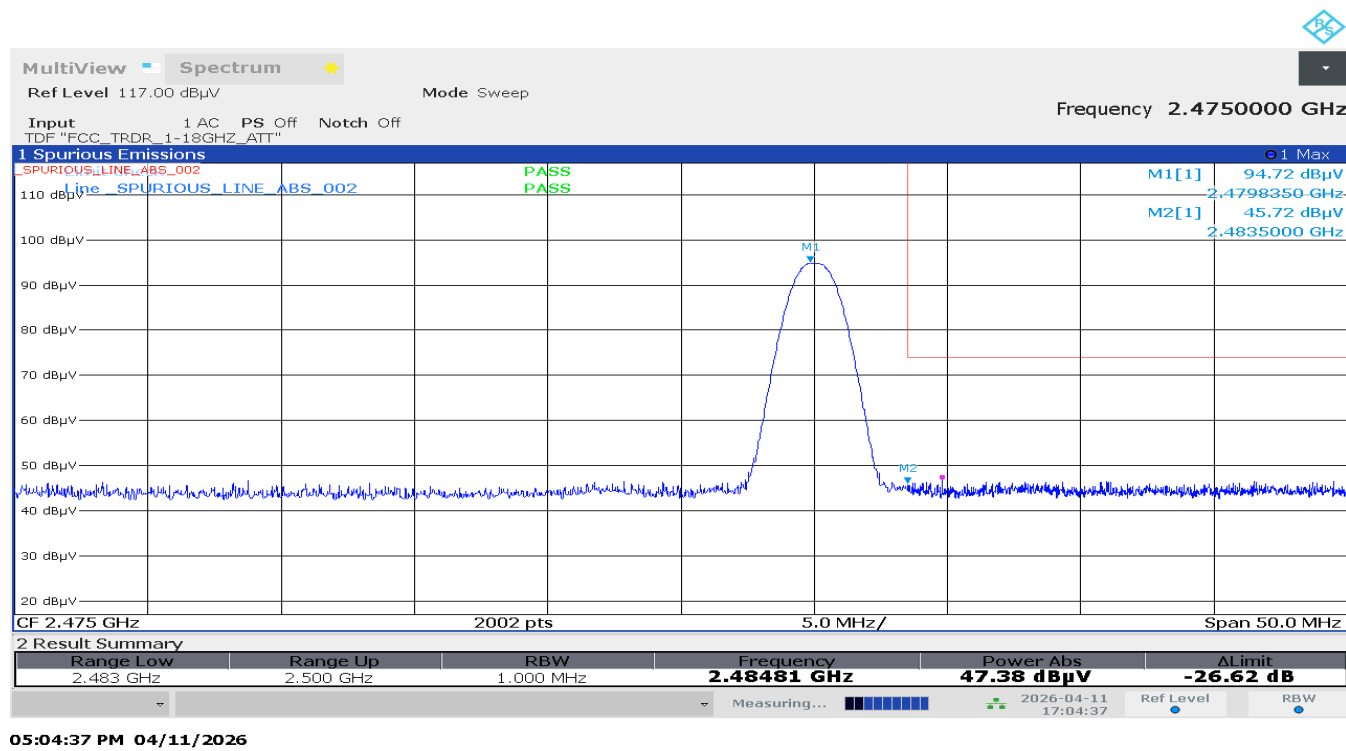
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

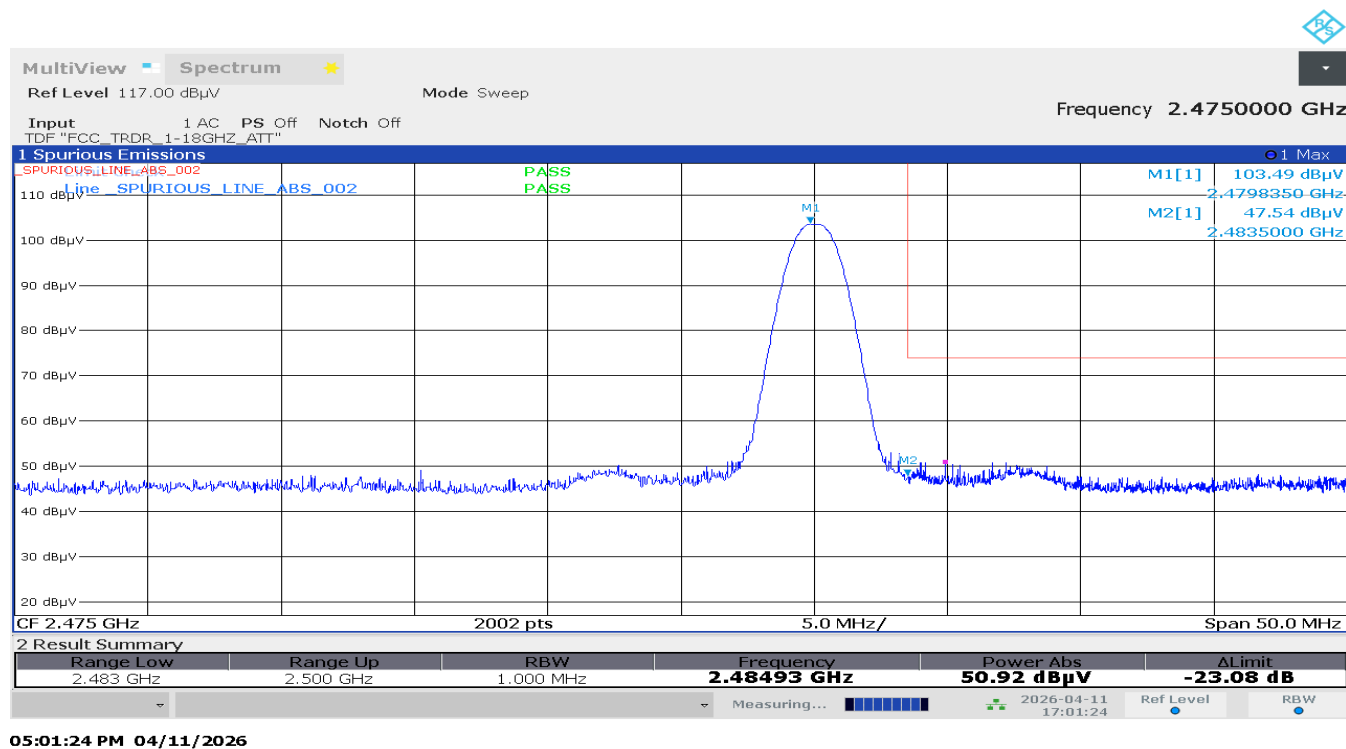
NOTE :

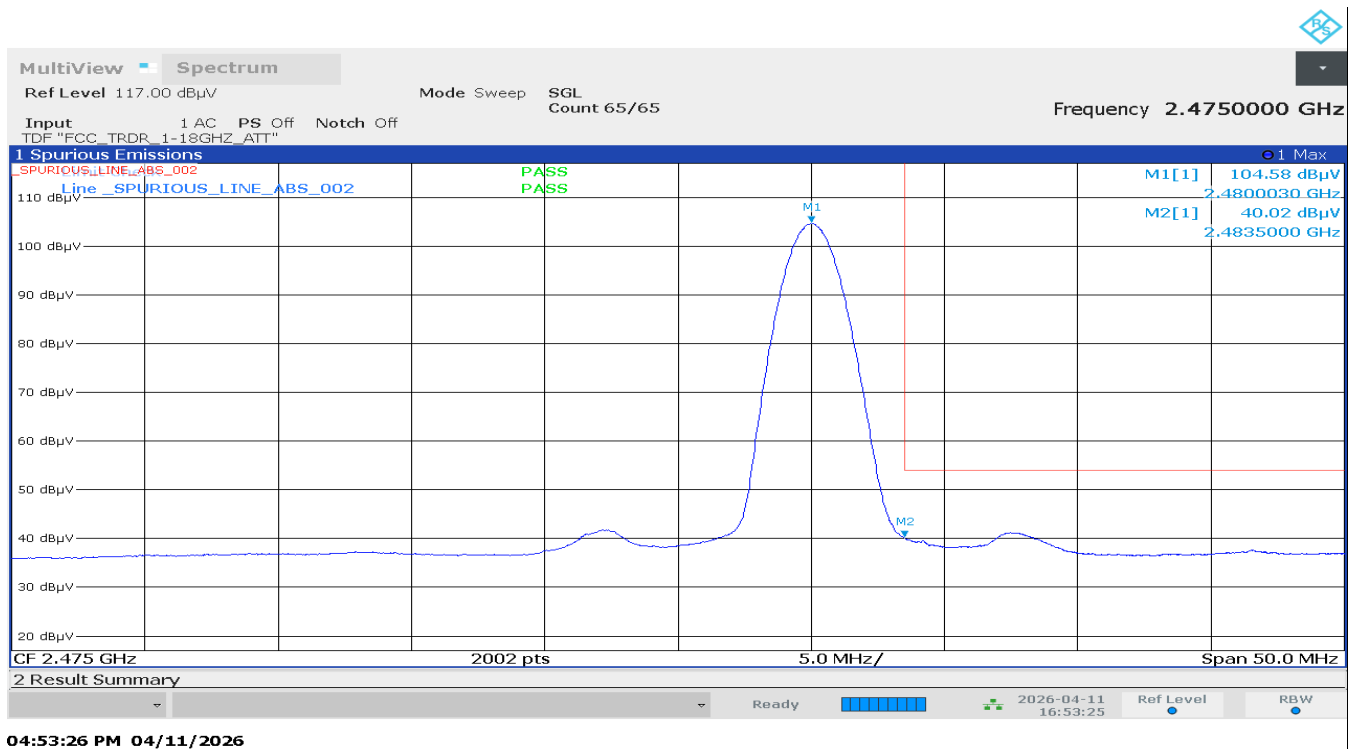
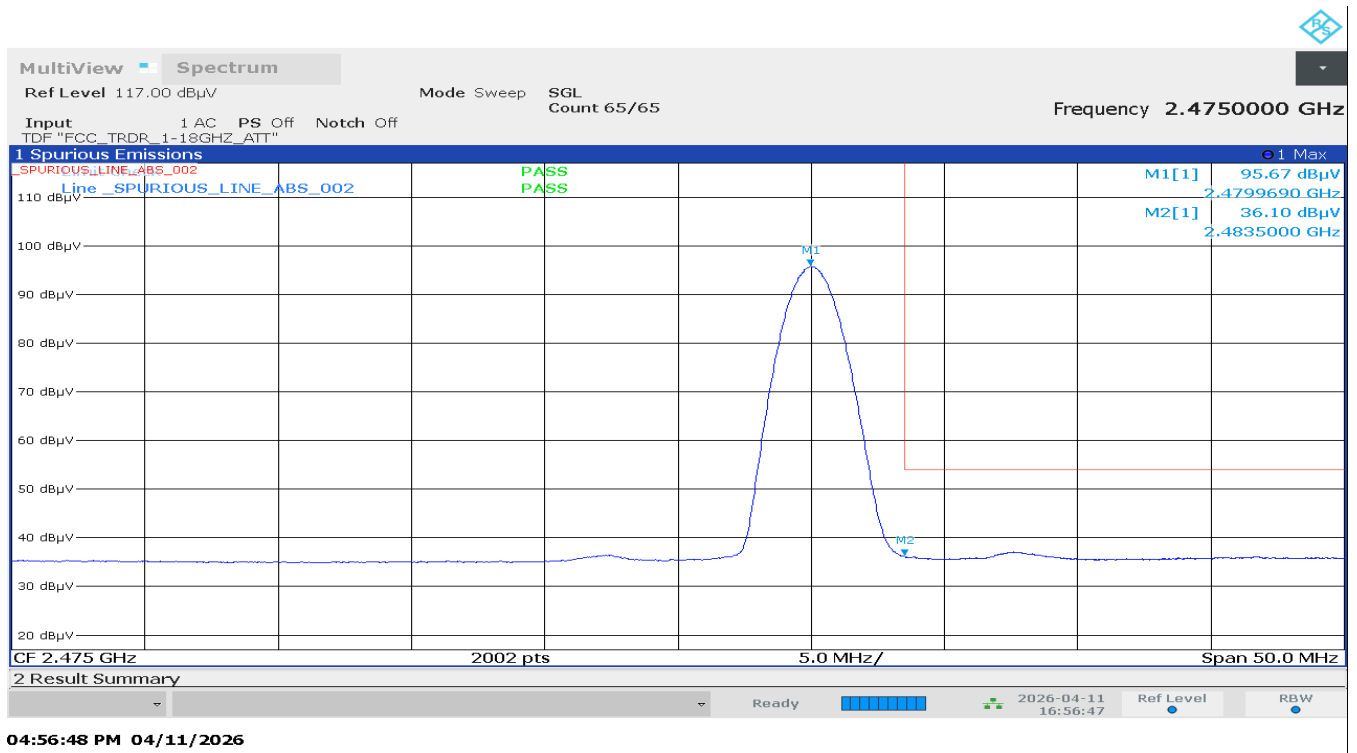
- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



Restricted Band Edge (Peak,Vertical)





SAC TX Restricted Band-edge : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01
Test Mode : BT - PI/4-DQPSK Channel SP/Bandwidth (kHz) : 1000.0000
Test Frequency (MHz) : 2402.0000 Softpot Power : 12.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Voltage (V) : 120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Peak	2310.6790	47.34 *	74.00	26.66
Vertical	Peak	2388.1220	47.51 *	74.00	26.49
Vertical	Average	2390.0000	35.90	54.00	18.10
Horizontal	Average	2390.0000	34.74	54.00	19.26
Vertical	Peak	2390.0000	45.46 *	74.00	28.54
Horizontal	Peak	2390.0000	44.27 *	74.00	29.73

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Sat, 11 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

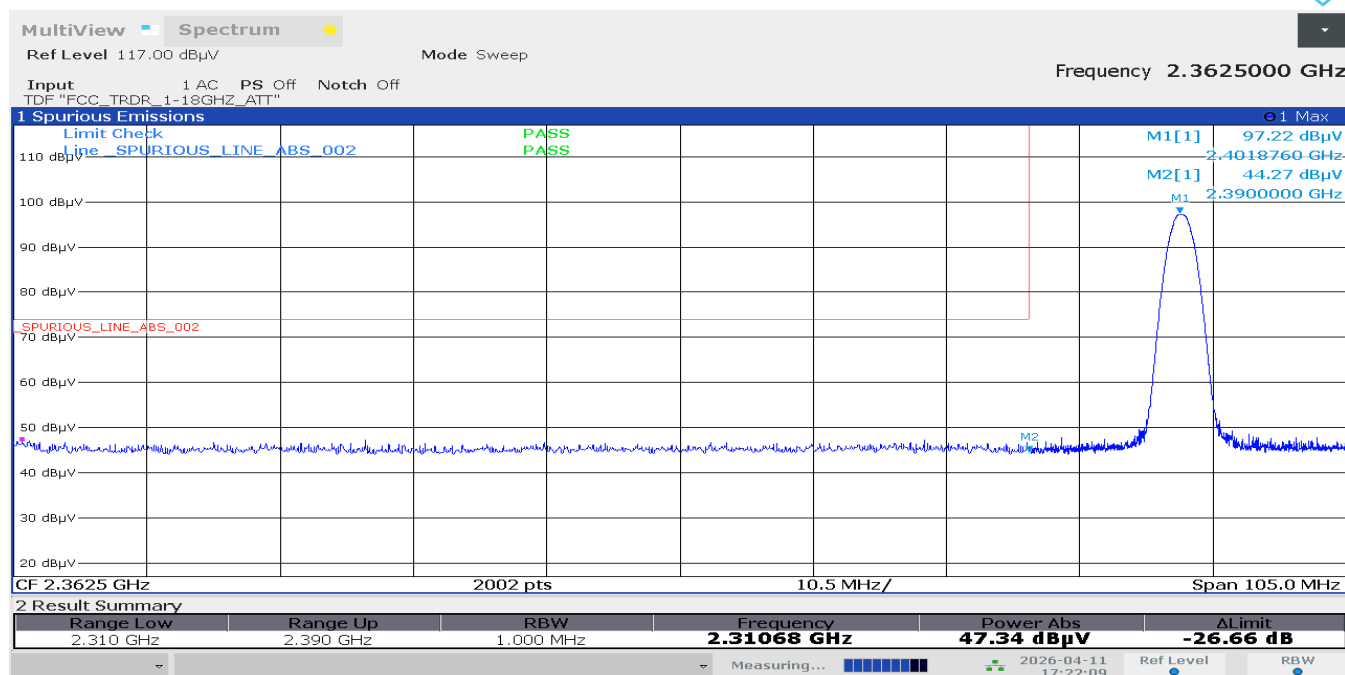
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

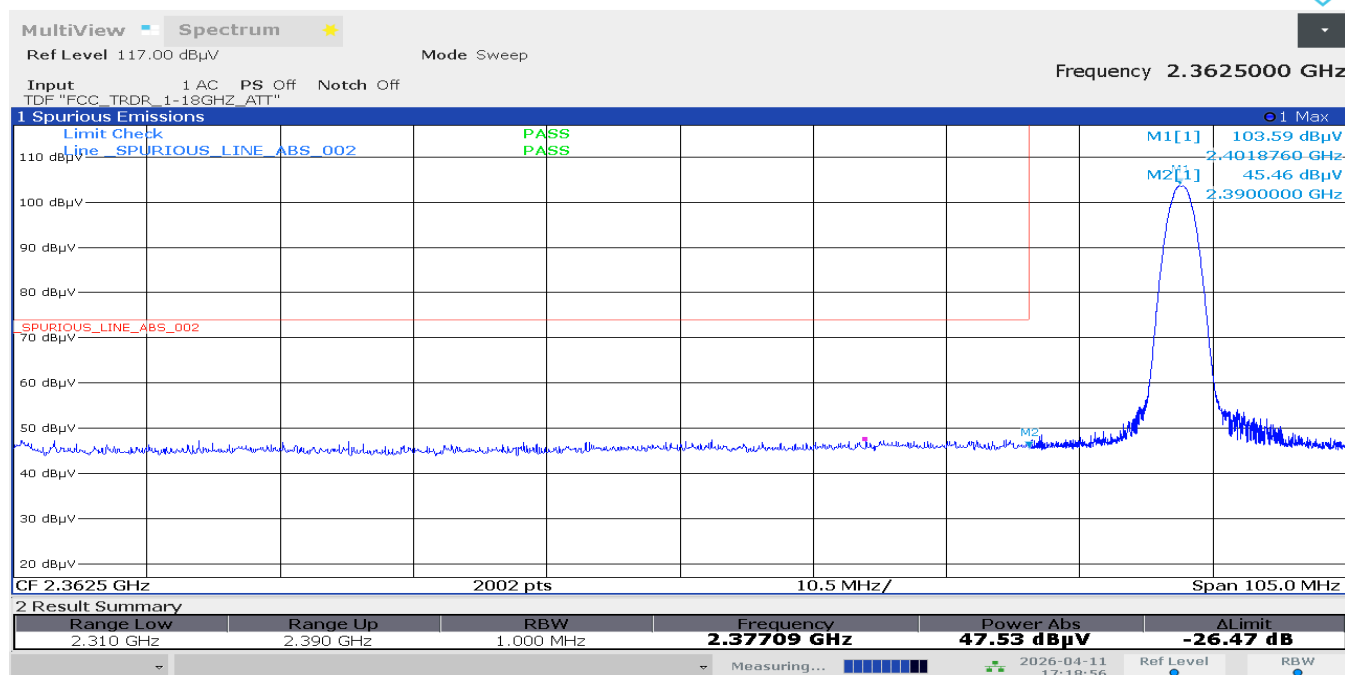
- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



05:22:09 PM 04/11/2026

Restricted Band Edge (Peak,Vertical)



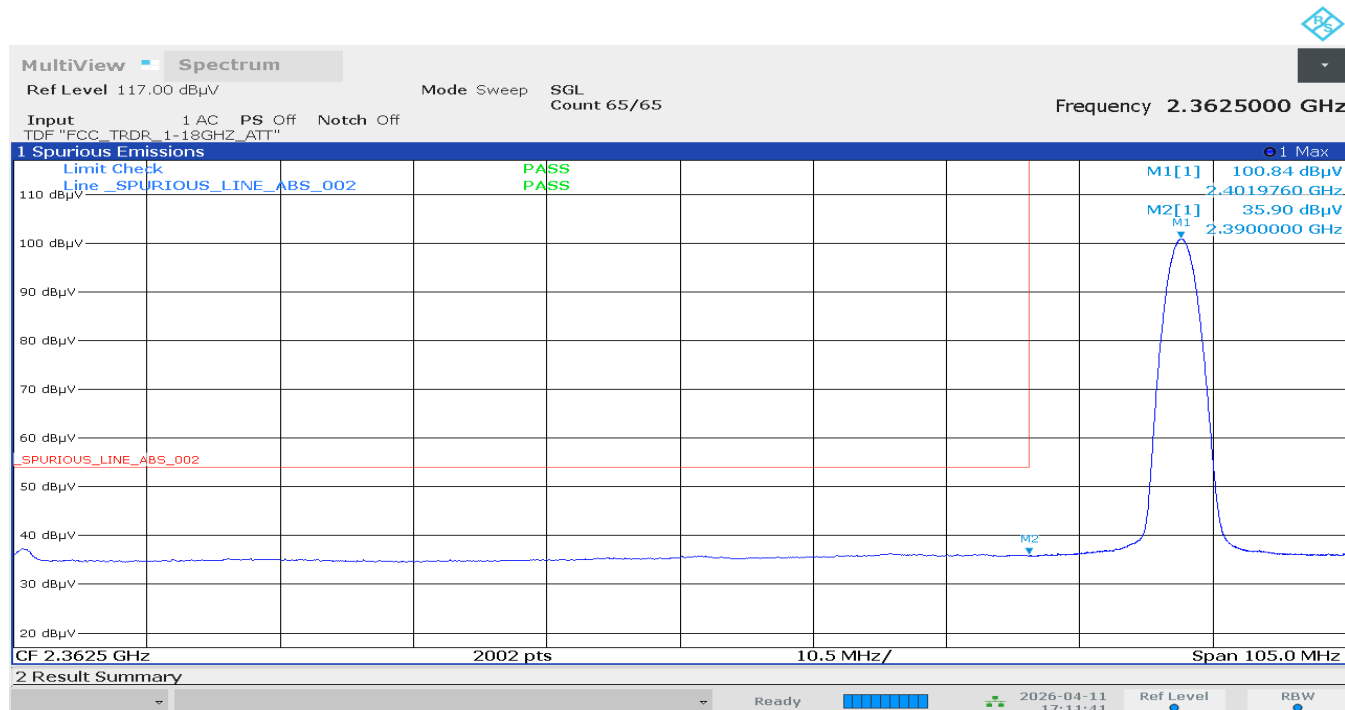
05:18:57 PM 04/11/2026

Restricted Band Edge (Average,Horizontal)



05:15:04 PM 04/11/2026

Restricted Band Edge (Average,Vertical)



05:11:42 PM 04/11/2026

SAC TX Restricted Band-edge : 1467N00-EMC-00042

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1512
Battery :	-	Charger :	-
Accessory :	HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01		
Test Mode :	BT - PI/4-DQPSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2480.0000	Softpot Power :	12.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	Voltage (V) :	120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Average	2483.5000	40.93	54.00	13.07
Horizontal	Average	2483.5000	36.64	54.00	17.36
Vertical	Peak	2483.5000	51.50 *	74.00	22.50
Horizontal	Peak	2483.5000	44.50 *	74.00	29.50
Horizontal	Peak	2483.5410	48.96 *	74.00	25.04
Vertical	Peak	2483.8870	53.10 *	74.00	20.90
Vertical	Peak	2484.2170	52.44 *	74.00	21.56
Vertical	Peak	2484.4150	51.88 *	74.00	22.12
Vertical	Peak	2484.5960	52.73 *	74.00	21.27
Vertical	Peak	2484.8440	52.73 *	74.00	21.27
Vertical	Peak	2485.0410	52.48 *	74.00	21.52
Horizontal	Peak	2485.5030	46.77 *	74.00	27.23
Vertical	Peak	2485.8160	51.09 *	74.00	22.91
Vertical	Peak	2486.7390	51.00 *	74.00	23.00
Horizontal	Peak	2489.7720	47.02 *	74.00	26.98
Horizontal	Peak	2491.9150	46.21 *	74.00	27.79
Horizontal	Peak	2493.6460	46.56 *	74.00	27.44
Horizontal	Peak	2495.0470	46.45 *	74.00	27.55
Horizontal	Peak	2495.3600	46.33 *	74.00	27.67
Horizontal	Peak	2498.3100	46.07 *	74.00	27.93
Horizontal	Peak	2499.6950	46.41 *	74.00	27.59
Horizontal	Peak	2499.9590	44.78 *	74.00	29.22

Temperature (°C) :	23.6	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sat, 11 Apr, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

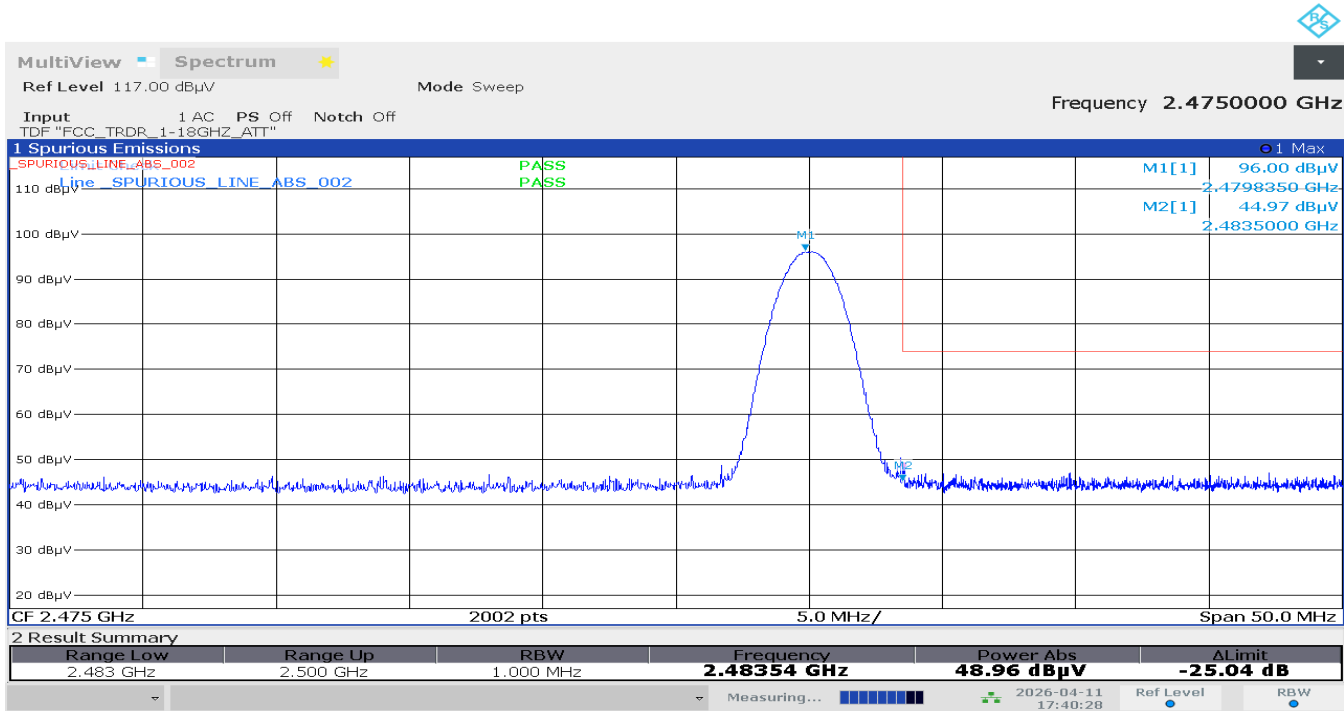
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

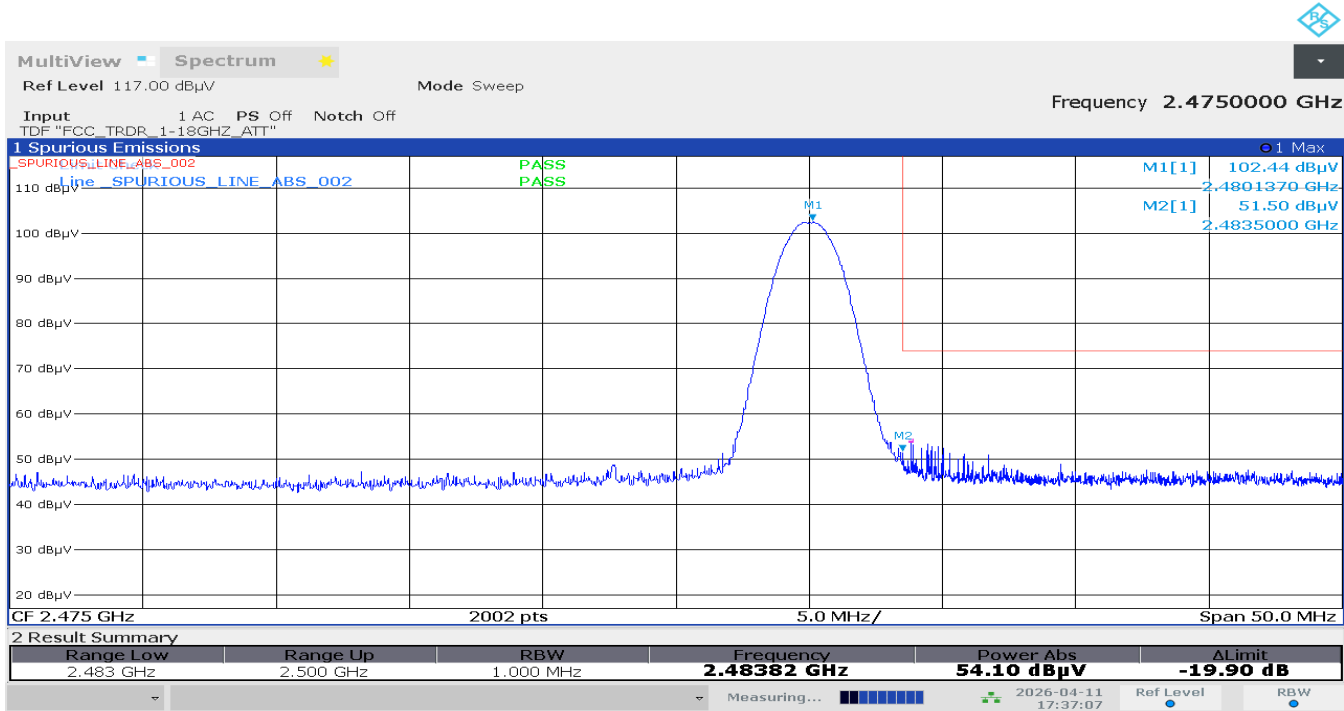
- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



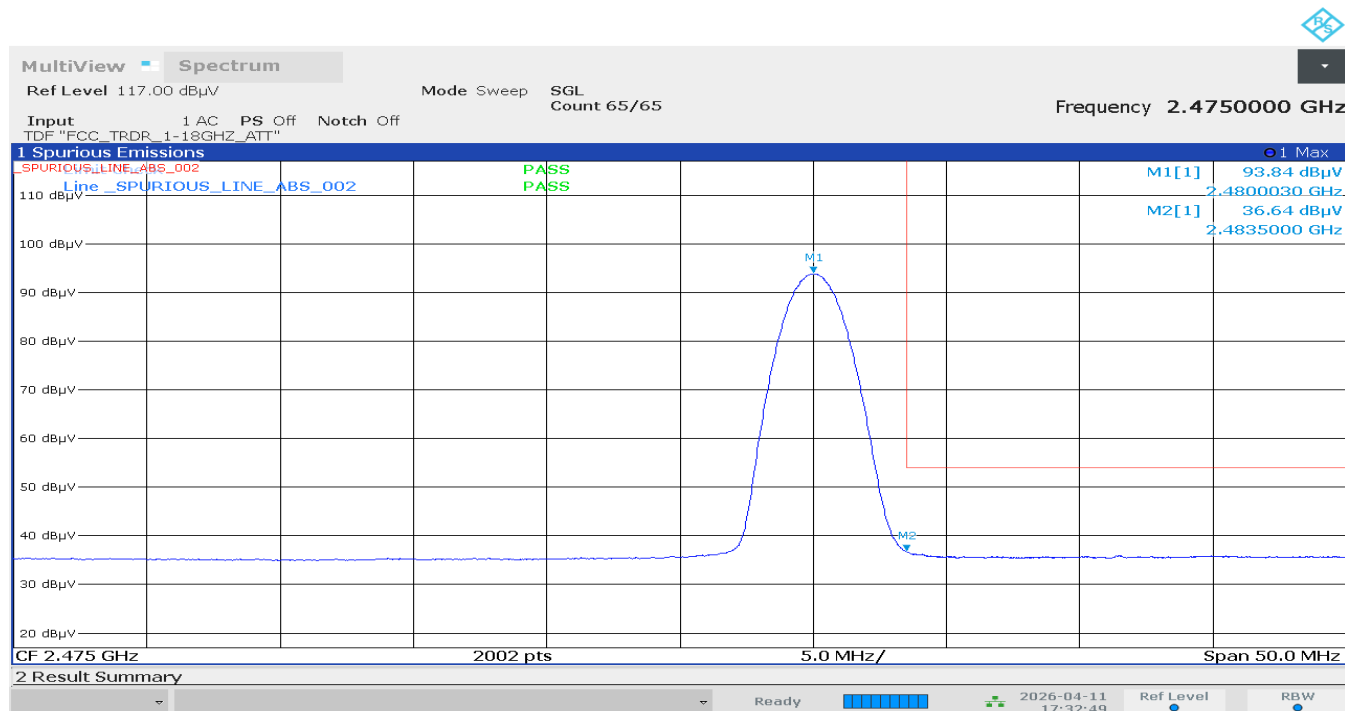
05:40:29 PM 04/11/2026

Restricted Band Edge (Peak,Vertical)



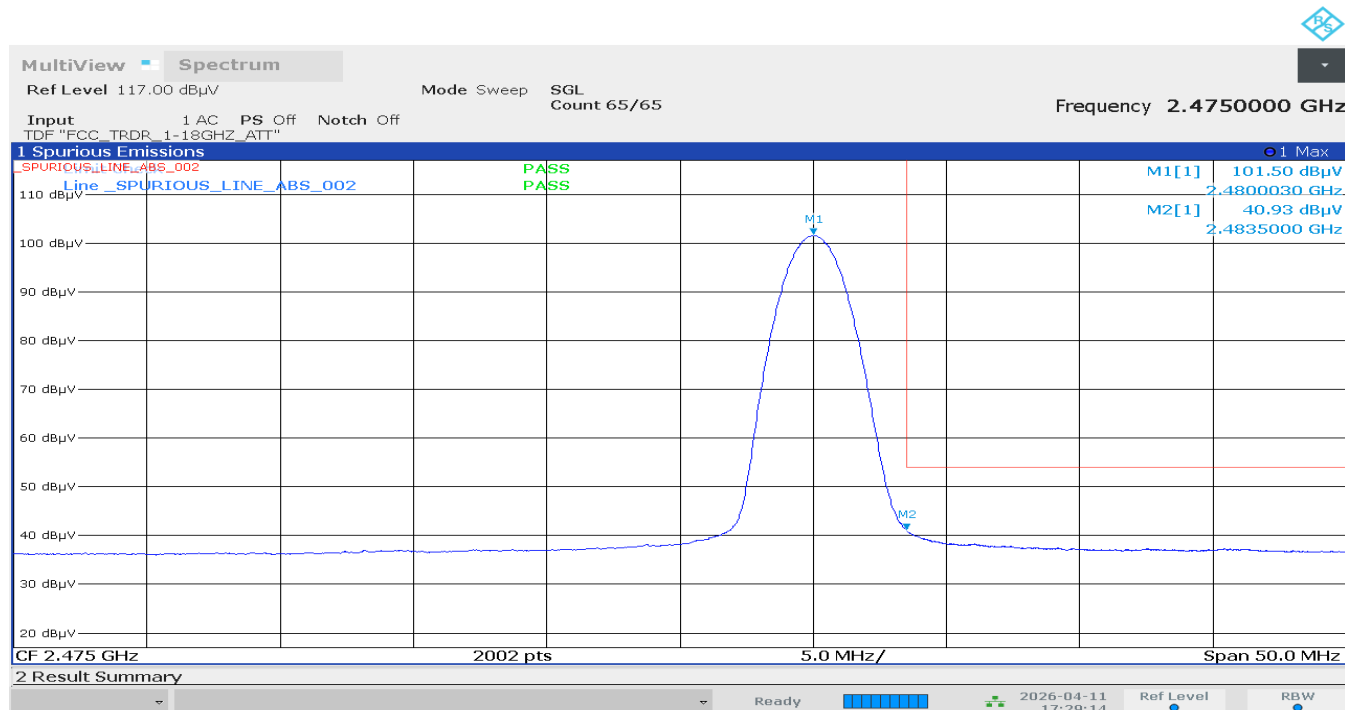
05:37:08 PM 04/11/2026

Restricted Band Edge (Average,Horizontal)



05:32:49 PM 04/11/2026

Restricted Band Edge (Average,Vertical)



05:29:14 PM 04/11/2026

SAC TX Restricted Band-edge : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01
Test Mode : BT - 8-DPSK Channel SP/Bandwidth (kHz) : 1000.0000
Test Frequency (MHz) : 2402.0000 Softpot Power : 12.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Voltage (V) : 120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Peak	2311.1590	48.51 *	74.00	25.49
Vertical	Peak	2311.3990	51.39 *	74.00	22.61
Vertical	Average	2390.0000	36.98	54.00	17.02
Horizontal	Average	2390.0000	35.01	54.00	18.99
Vertical	Peak	2390.0000	45.97 *	74.00	28.03
Horizontal	Peak	2390.0000	45.45 *	74.00	28.55

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Sat, 11 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

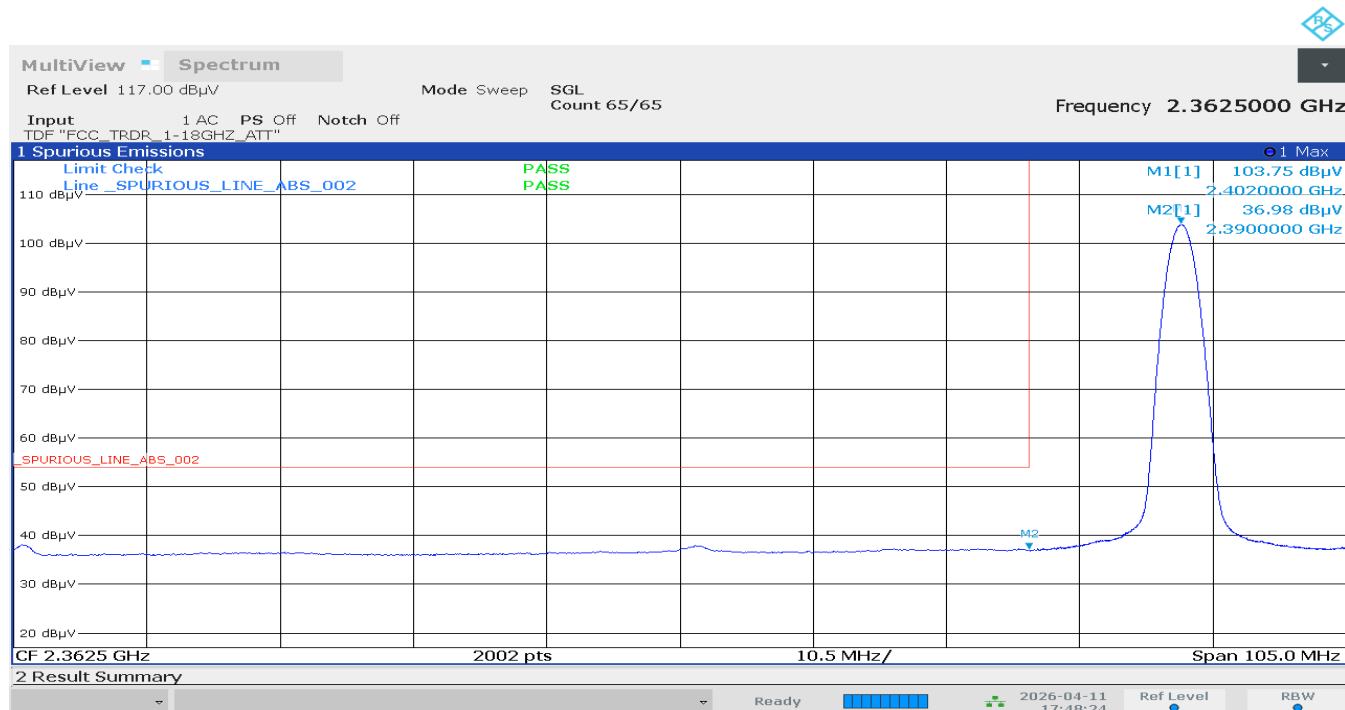


Restricted Band Edge (Average,Horizontal)



05:51:41 PM 04/11/2026

Restricted Band Edge (Average,Vertical)



05:48:24 PM 04/11/2026

SAC TX Restricted Band-edge : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01
Test Mode : BT - 8-DPSK Channel SP/Bandwidth (kHz) : 1000.0000
Test Frequency (MHz) : 2480.0000 Softpot Power : 12.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. Voltage (V) : 120.00
1-2023+C63.10a-2024 +
Errata to C63.10a-2024

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Average	2483.5000	40.43	54.00	13.57
Horizontal	Average	2483.5000	37.01	54.00	16.99
Vertical	Peak	2483.5000	52.23 *	74.00	21.77
Horizontal	Peak	2483.5000	47.33 *	74.00	26.67
Horizontal	Peak	2483.7220	48.89 *	74.00	25.11
Vertical	Peak	2484.1180	54.53	74.00	19.47
Vertical	Peak	2485.4040	53.70 *	74.00	20.30
Horizontal	Peak	2487.7110	46.65 *	74.00	27.35
Horizontal	Peak	2489.1130	46.77 *	74.00	27.23
Horizontal	Peak	2491.2390	46.58 *	74.00	27.42
Horizontal	Peak	2492.4090	46.57 *	74.00	27.43
Horizontal	Peak	2493.7110	46.58 *	74.00	27.42
Horizontal	Peak	2494.6350	43.91 *	74.00	30.09
Horizontal	Peak	2497.0740	46.75 *	74.00	27.25
Horizontal	Peak	2498.0630	46.72 *	74.00	27.28
Horizontal	Peak	2499.1510	46.39 *	74.00	27.61

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Sun, 12 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

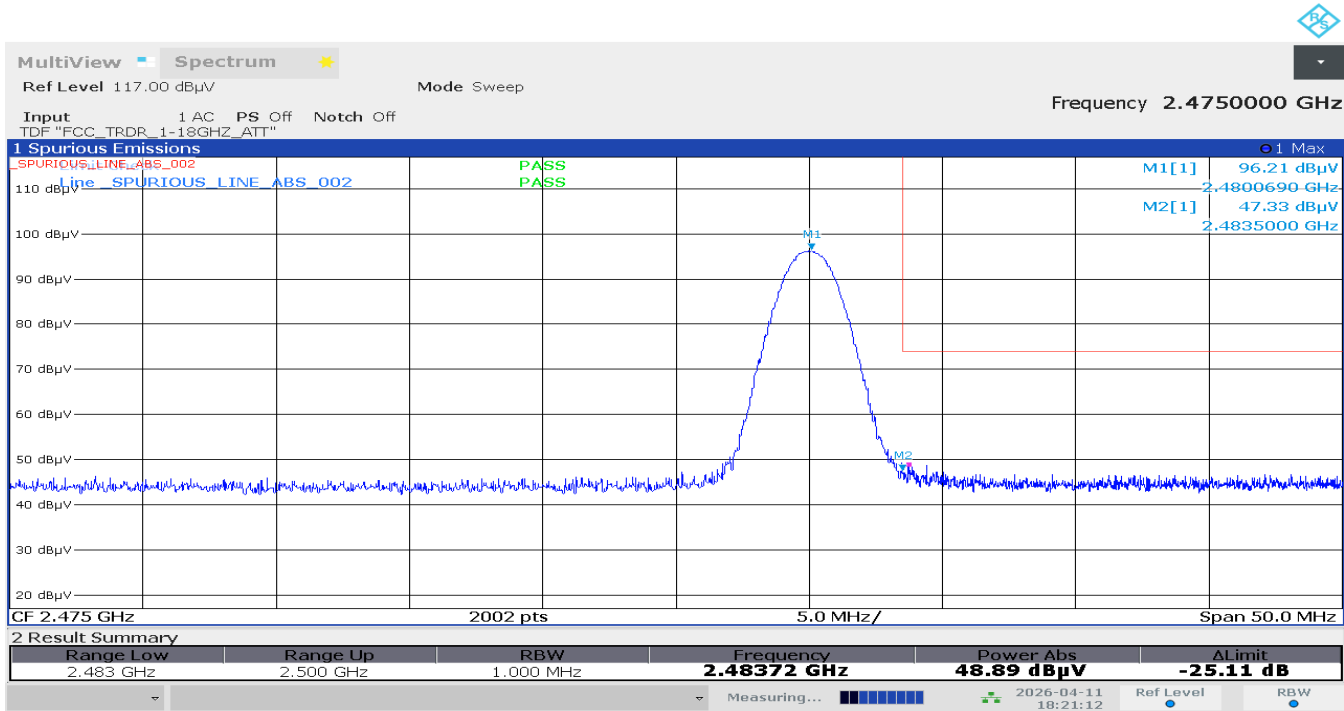
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

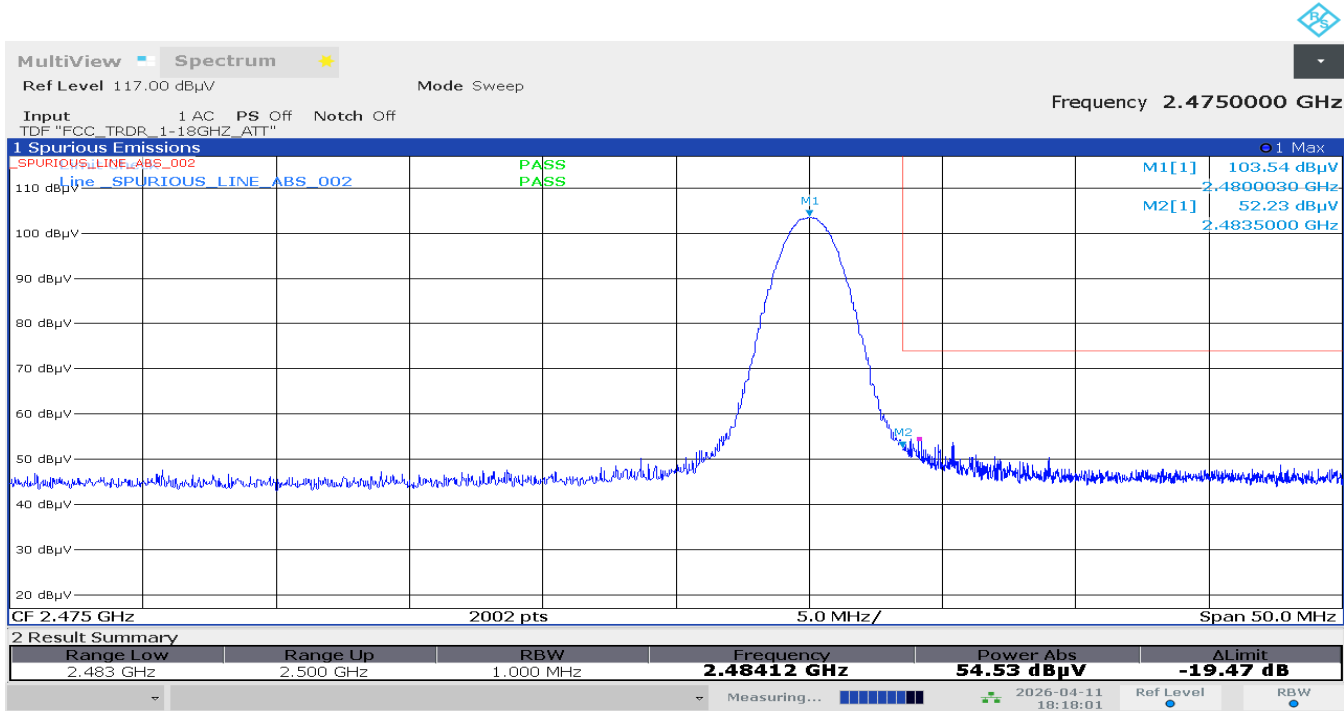
- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



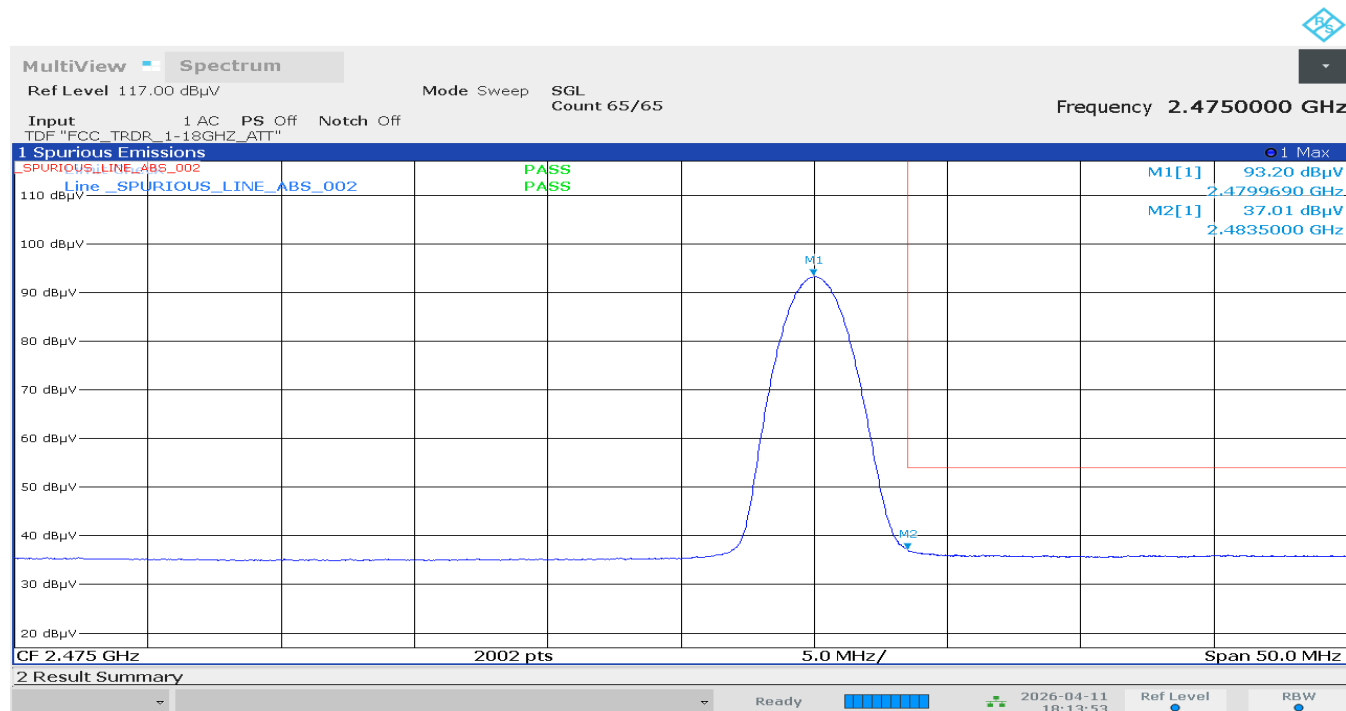
06:21:13 PM 04/11/2026

Restricted Band Edge (Peak,Vertical)



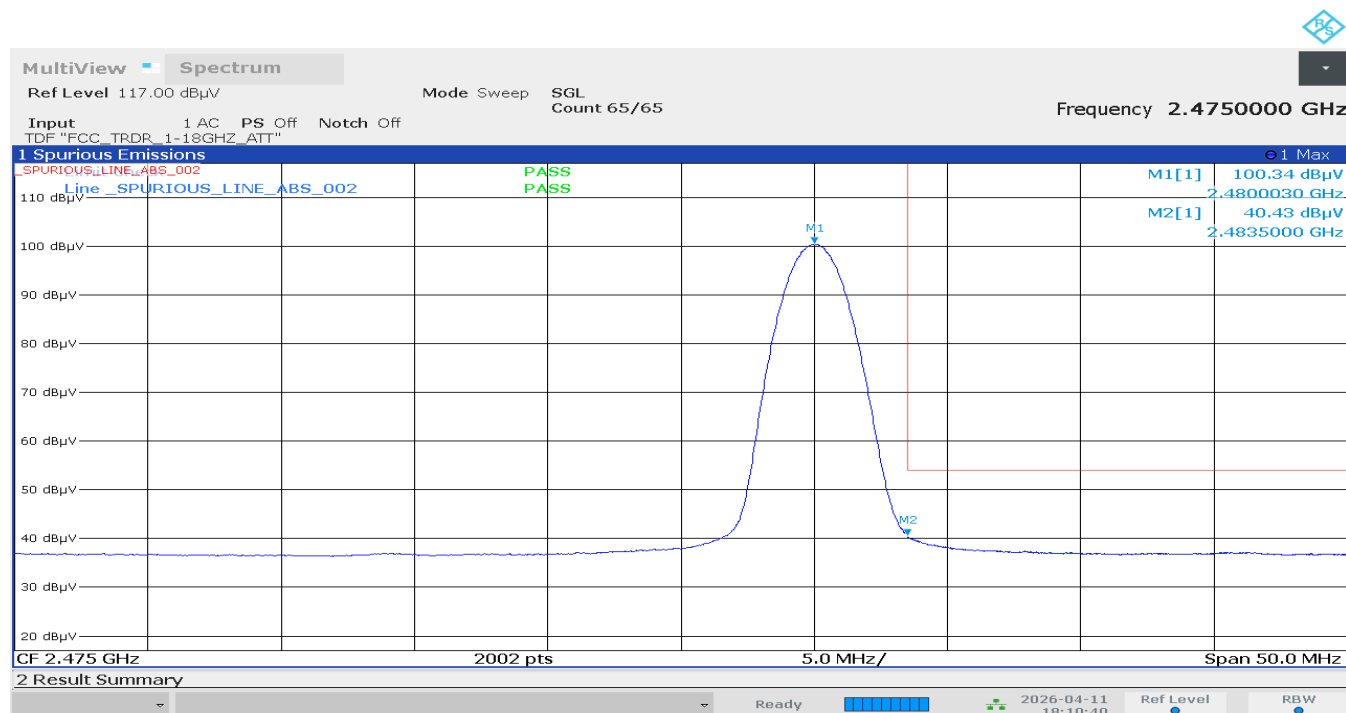
06:18:02 PM 04/11/2026

Restricted Band Edge (Average,Horizontal)



06:13:53 PM 04/11/2026

Restricted Band Edge (Average,Vertical)



06:10:40 PM 04/11/2026

SAC TX Radiated Emission : 1467N00-EMC-00042

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1512
Battery :	-	Charger :	-
Accessory :	HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01		
Test Mode :	BT - GFSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2402.0000	Softpot Power :	10.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	Voltage (V) :	120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Peak	71.6898	35.32 *	104.73	84.73	49.41
Vertical	Peak	71.9246	34.88 *	104.73	84.73	49.85
Horizontal	Quasi-Peak	74.5399	30.59	-	40.00	9.41
Vertical	Quasi-Peak	74.5699	27.88	-	40.00	12.12
Horizontal	Peak	77.1550	36.71 *	104.73	84.73	48.02
Vertical	Peak	77.2170	35.26 *	104.73	84.73	49.46
Horizontal	Quasi-Peak	130.5842	30.05	-	43.50	13.45
Vertical	Quasi-Peak	130.7600	18.75 *	-	43.50	24.75
Horizontal	Peak	141.4174	34.26 *	104.73	84.73	50.47
Vertical	Peak	141.8190	28.29 *	104.73	84.73	56.44
Vertical	Peak	501.5730	33.67 *	104.73	84.73	51.05
Horizontal	Peak	501.6239	31.95 *	104.73	84.73	52.78
Vertical	Peak	1499.9250	39.87 *	-	74.00	34.13
Vertical	Average	1499.9250	33.30 *	-	54.00	20.70
Horizontal	Peak	1500.1690	37.21 *	-	74.00	36.79
Horizontal	Average	1500.1690	29.68 *	-	54.00	24.32
Horizontal	Peak	4803.6300	46.74 *	-	74.00	27.26
Horizontal	Average	4803.6300	38.83	-	54.00	15.17
Vertical	Peak	4804.1870	47.74 *	-	74.00	26.26
Vertical	Average	4804.1870	41.93	-	54.00	12.07

Temperature (°C) :	23.6	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Mon, 13 Apr, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

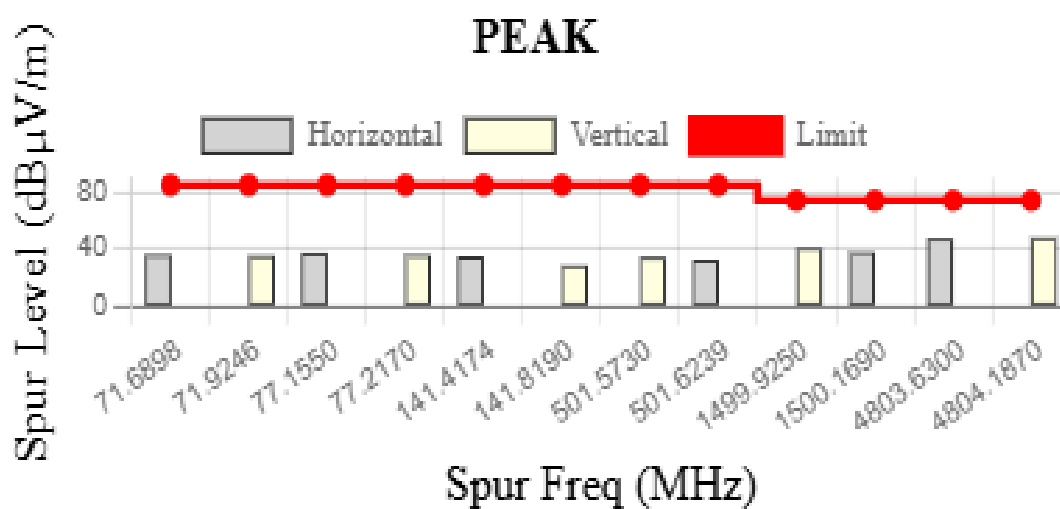
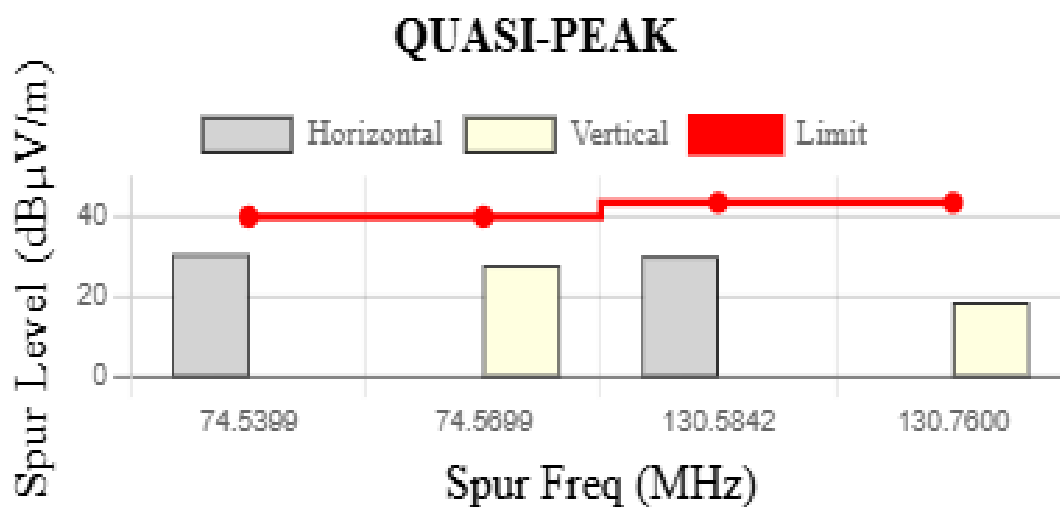
Remarks:

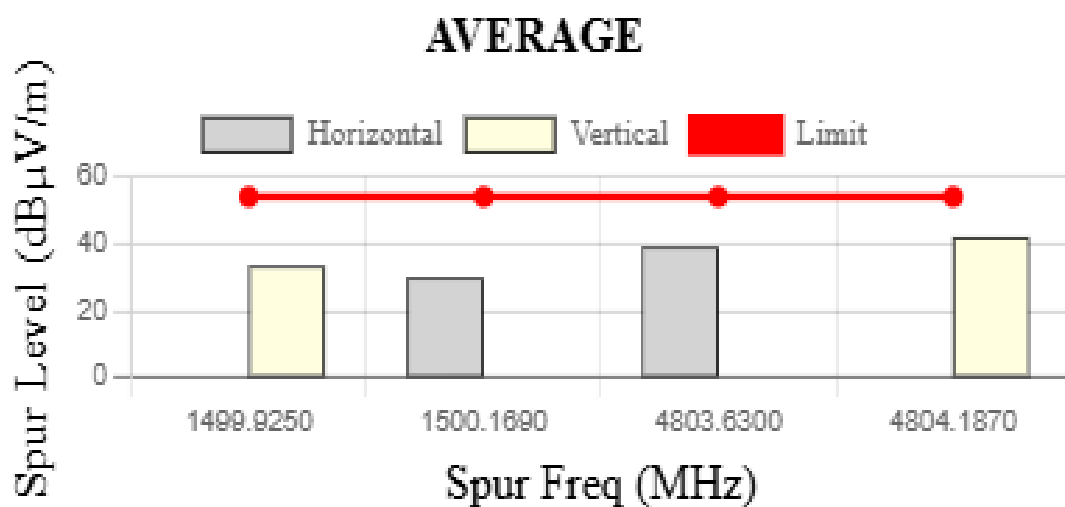
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.





SAC TX Radiated Emission : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01
Test Mode : BT - GFSK Channel SP/Bandwidth (kHz) : 1000.0000
Test Frequency (MHz) : 2441.0000 Softpot Power : 10.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Voltage (V) : 120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Quasi-Peak	74.4610	29.77	-	40.00	10.23
Vertical	Quasi-Peak	74.5389	31.57	-	40.00	8.43
Horizontal	Peak	77.1740	36.87 *	104.73	84.73	47.85
Vertical	Peak	77.2000	35.62 *	104.73	84.73	49.10
Horizontal	Peak	89.4413	33.02 *	104.73	84.73	51.71
Vertical	Peak	90.0397	33.20 *	104.73	84.73	51.53
Vertical	Quasi-Peak	130.8130	18.74 *	-	43.50	24.76
Horizontal	Quasi-Peak	130.9049	30.20	-	43.50	13.30
Vertical	Peak	139.5425	26.78 *	104.73	84.73	57.95
Horizontal	Peak	140.0909	32.88 *	104.73	84.73	51.85
Horizontal	Peak	501.5900	31.99 *	104.73	84.73	52.73
Vertical	Peak	501.6159	33.61 *	104.73	84.73	51.12
Vertical	Peak	1439.8580	40.81 *	-	74.00	33.19
Vertical	Average	1439.8580	26.77 *	-	54.00	27.23
Horizontal	Peak	1440.0060	38.87 *	-	74.00	35.13
Horizontal	Average	1440.0060	25.45 *	-	54.00	28.55
Horizontal	Peak	1499.6640	37.51 *	-	74.00	36.49
Horizontal	Average	1499.6640	30.67 *	-	54.00	23.33
Vertical	Peak	1500.1660	39.65 *	-	74.00	34.35
Vertical	Average	1500.1660	33.60 *	-	54.00	20.40
Horizontal	Peak	4881.7920	47.04 *	-	74.00	26.96
Horizontal	Average	4881.7920	39.57	-	54.00	14.43
Vertical	Peak	4881.9260	47.39 *	-	74.00	26.61
Vertical	Average	4881.9260	31.98 *	-	54.00	22.02

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Mon, 13 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

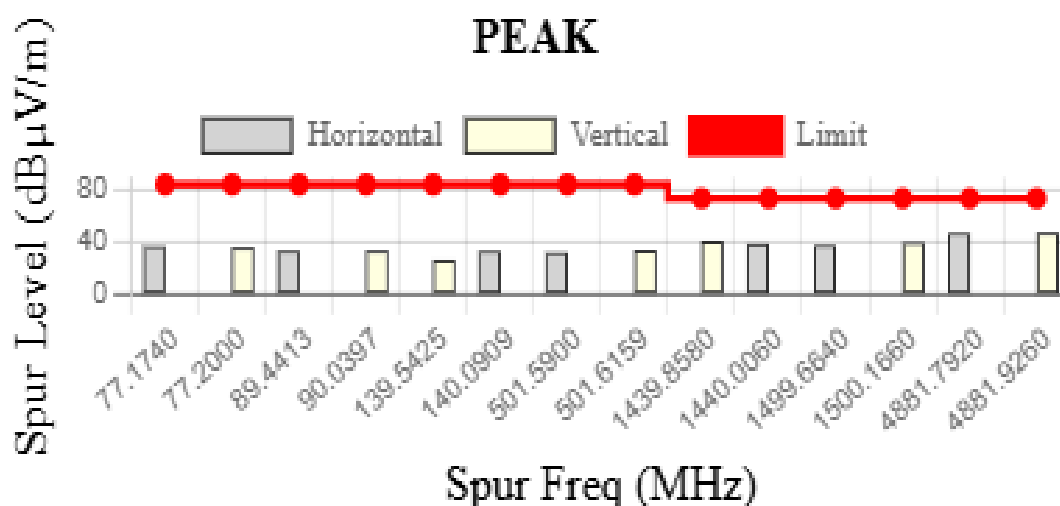
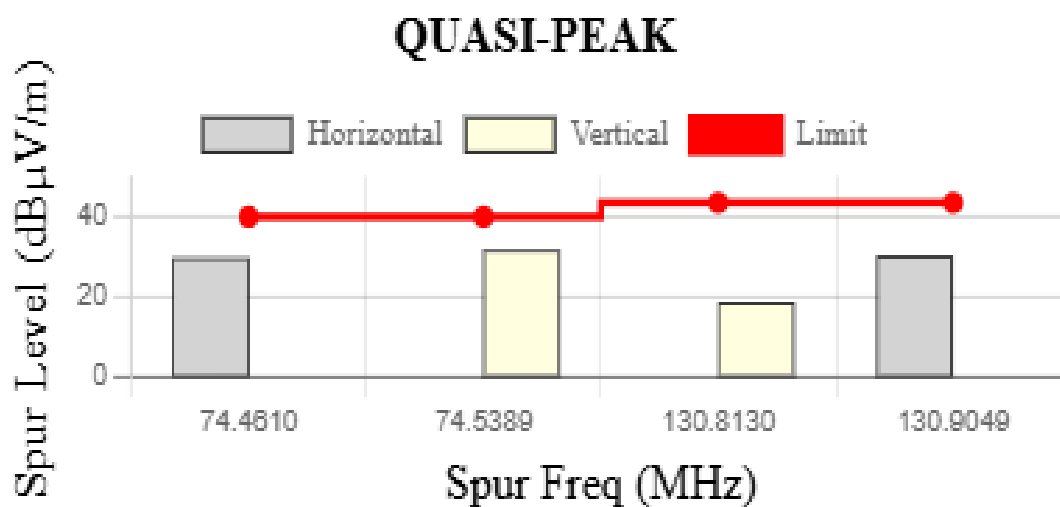
Remarks:

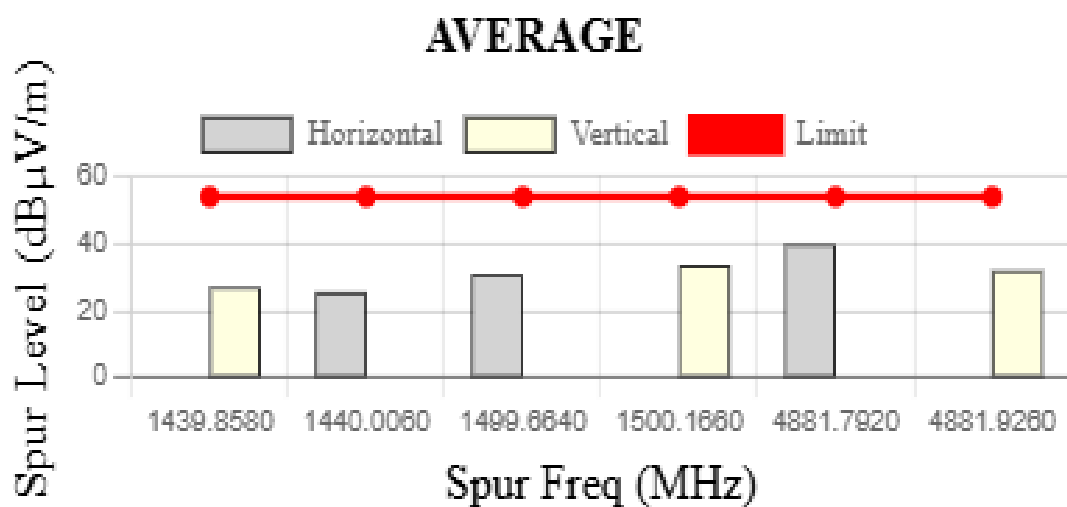
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.





SAC TX Radiated Emission : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01
Test Mode : BT - GFSK Channel SP/Bandwidth (kHz) : 1000.0000
Test Frequency (MHz) : 2480.0000 Softpot Power : 10.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Voltage (V) : 120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	70.8748	33.73 *	104.73	84.73	50.99
Horizontal	Peak	71.0296	35.02 *	104.73	84.73	49.71
Vertical	Quasi-Peak	74.3981	23.40	-	40.00	16.60
Horizontal	Quasi-Peak	74.5220	30.66	-	40.00	9.34
Vertical	Peak	79.2070	35.82 *	104.73	84.73	48.91
Horizontal	Peak	79.2260	37.65 *	104.73	84.73	47.08
Vertical	Quasi-Peak	130.5872	18.61 *	-	43.50	24.89
Horizontal	Quasi-Peak	130.8080	30.43	-	43.50	13.07
Vertical	Peak	141.3964	28.11 *	104.73	84.73	56.62
Horizontal	Peak	141.7570	34.71 *	104.73	84.73	50.02
Horizontal	Peak	501.6020	32.11 *	104.73	84.73	52.61
Vertical	Peak	501.6139	33.82 *	104.73	84.73	50.91
Vertical	Peak	1499.8270	39.94 *	-	74.00	34.06
Vertical	Average	1499.8270	34.79	-	54.00	19.21
Horizontal	Peak	1500.1560	37.71 *	-	74.00	36.29
Horizontal	Average	1500.1560	30.47 *	-	54.00	23.53

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Mon, 13 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

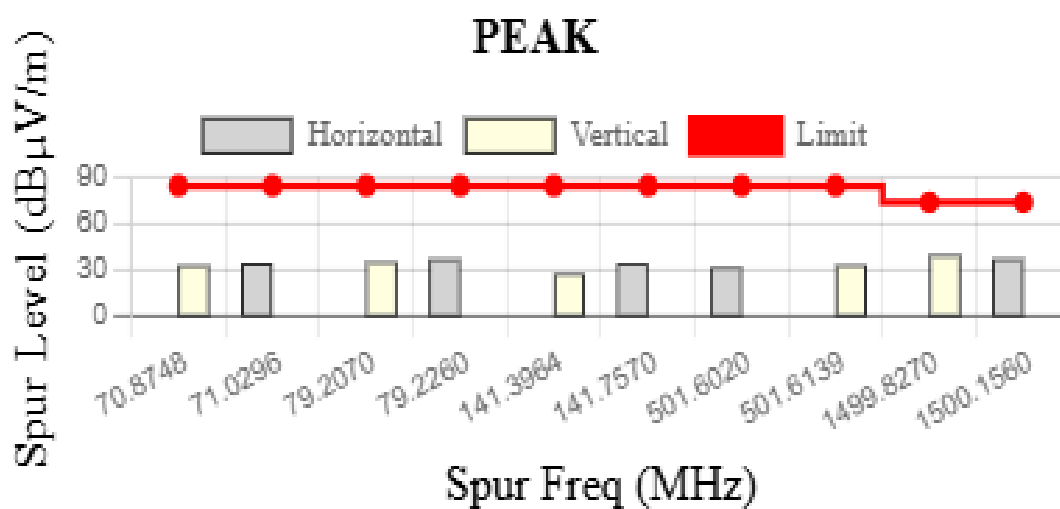
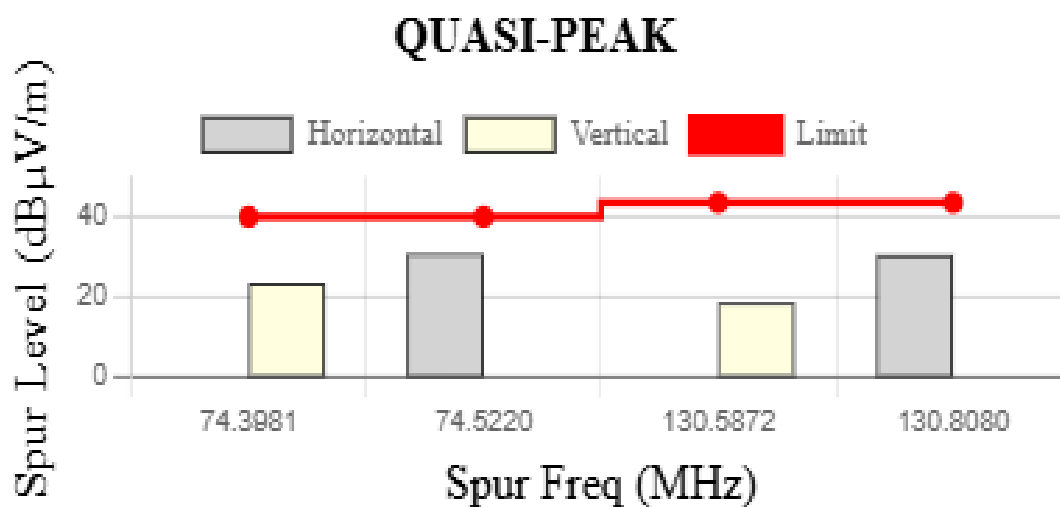
Remarks:

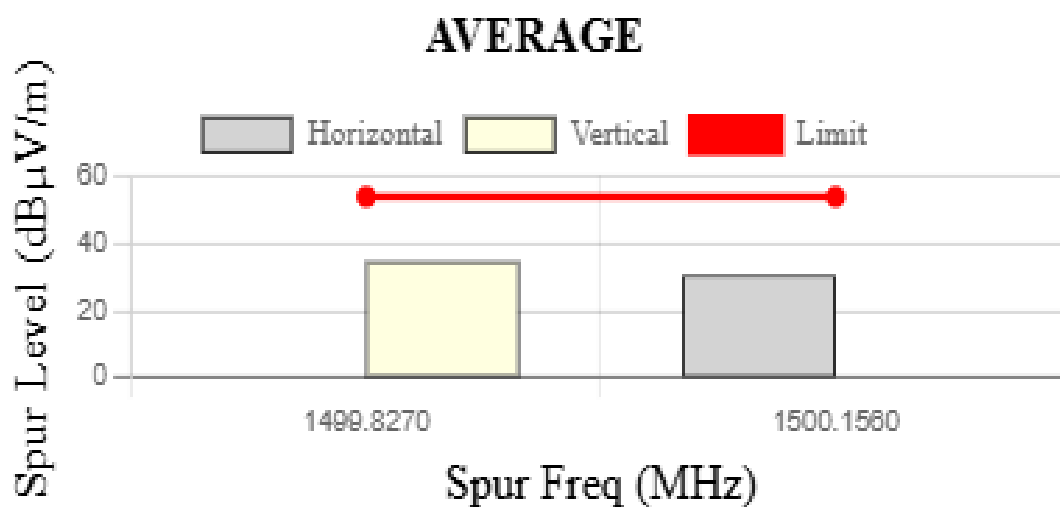
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.





SAC TX Radiated Emission : 1467N00-EMC-00042

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1512
Battery :	-	Charger :	-
Accessory :	HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01		
Test Mode :	BT - PI/4-DQPSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2402.0000	Softpot Power :	12.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	Voltage (V) :	120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	32.9910	28.88 *	104.73	84.73	55.84
Horizontal	Peak	33.1679	27.32 *	104.73	84.73	57.40
Horizontal	Quasi-Peak	74.5140	25.66	-	40.00	14.34
Vertical	Quasi-Peak	74.5630	27.64	-	40.00	12.36
Horizontal	Peak	76.9263	35.97 *	104.73	84.73	48.76
Vertical	Peak	77.2010	34.98 *	104.73	84.73	49.75
Vertical	Peak	79.3649	35.05 *	104.73	84.73	49.68
Horizontal	Peak	79.4138	37.31 *	104.73	84.73	47.41
Horizontal	Quasi-Peak	127.9603	28.92	-	43.50	14.58
Vertical	Quasi-Peak	128.6766	11.97 *	-	43.50	31.53
Vertical	Peak	501.5850	33.66 *	104.73	84.73	51.07
Horizontal	Peak	501.6179	31.88 *	104.73	84.73	52.84
Horizontal	Peak	1499.9580	37.52 *	-	74.00	36.48
Horizontal	Average	1499.9580	30.57 *	-	54.00	23.43
Vertical	Peak	1500.1040	40.11 *	-	74.00	33.89
Vertical	Average	1500.1040	34.58	-	54.00	19.42

Temperature (°C) :	23.6	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Mon, 13 Apr, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

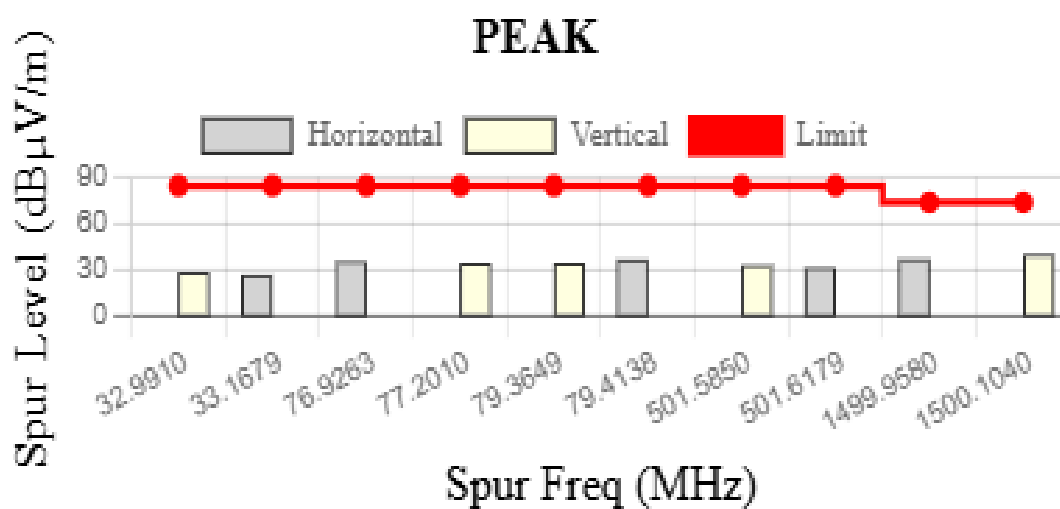
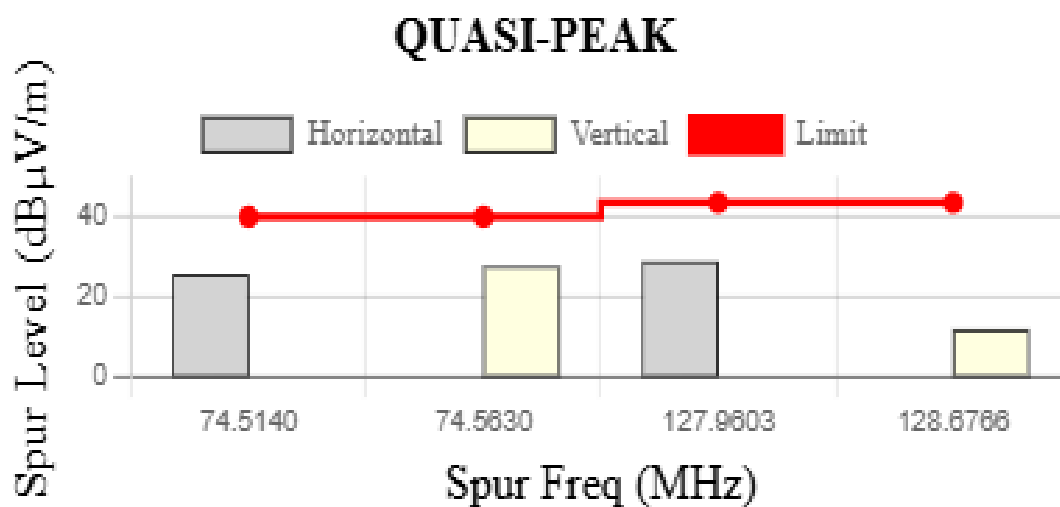
Remarks:

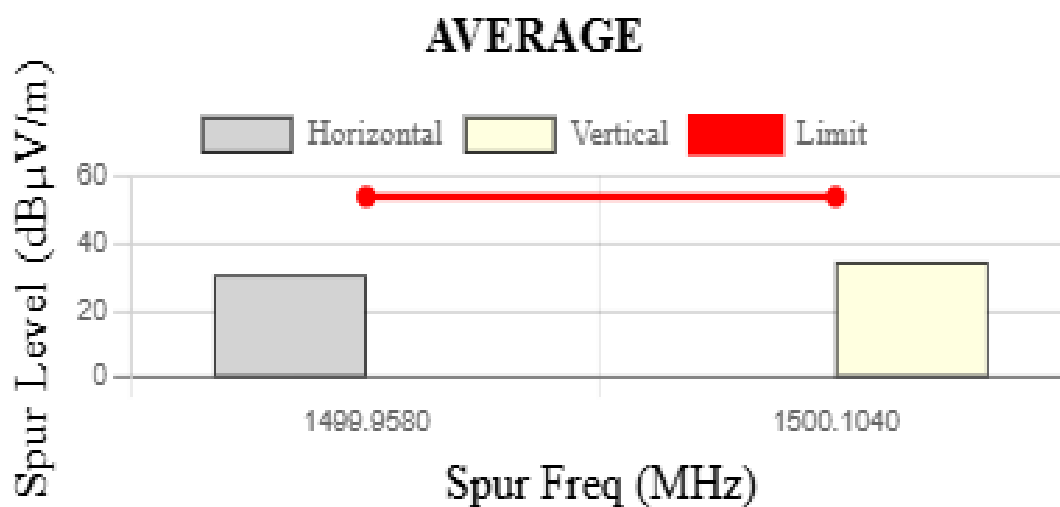
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.





SAC TX Radiated Emission : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01
Test Mode : BT - PI/4-DQPSK Channel SP/Bandwidth (kHz) : 1000.0000
Test Frequency (MHz) : 2441.0000 Softpot Power : 12.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Voltage (V) : 120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Peak	31.4795	28.73 *	104.73	84.73	56.00
Vertical	Peak	31.4945	30.25 *	104.73	84.73	54.48
Vertical	Quasi-Peak	74.5387	30.27	-	40.00	9.73
Horizontal	Quasi-Peak	74.9882	26.92	-	40.00	13.08
Horizontal	Peak	77.1191	36.61 *	104.73	84.73	48.12
Vertical	Peak	77.1650	33.36 *	104.73	84.73	51.36
Vertical	Peak	79.3085	35.10 *	104.73	84.73	49.62
Horizontal	Peak	79.9838	36.71 *	104.73	84.73	48.02
Vertical	Quasi-Peak	130.6494	19.70 *	-	43.50	23.80
Horizontal	Quasi-Peak	130.8072	28.51	-	43.50	14.99
Horizontal	Peak	501.5880	32.06 *	104.73	84.73	52.67
Vertical	Peak	501.5970	33.04 *	104.73	84.73	51.69
Vertical	Average	1499.8560	33.64 *	-	54.00	20.36
Horizontal	Peak	1500.0830	38.63 *	-	74.00	35.37
Horizontal	Average	1500.0830	32.53 *	-	54.00	21.47

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Mon, 13 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

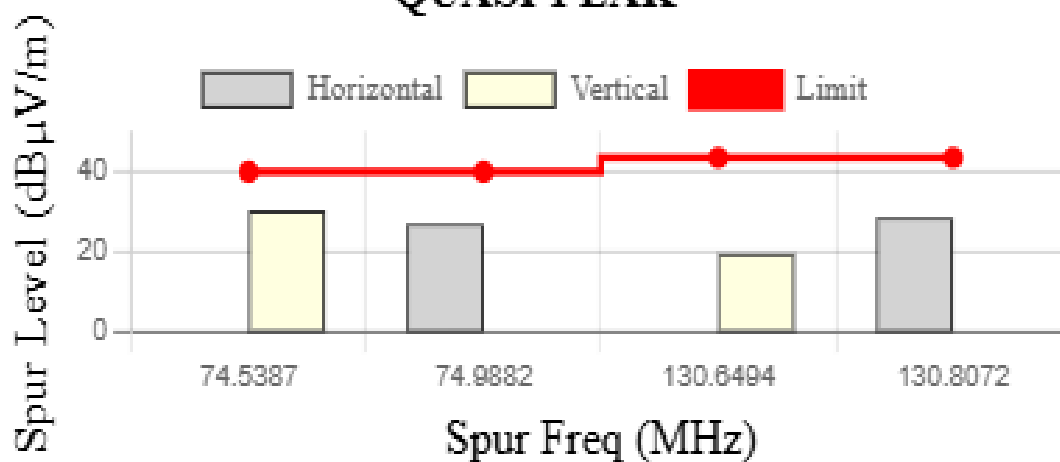
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

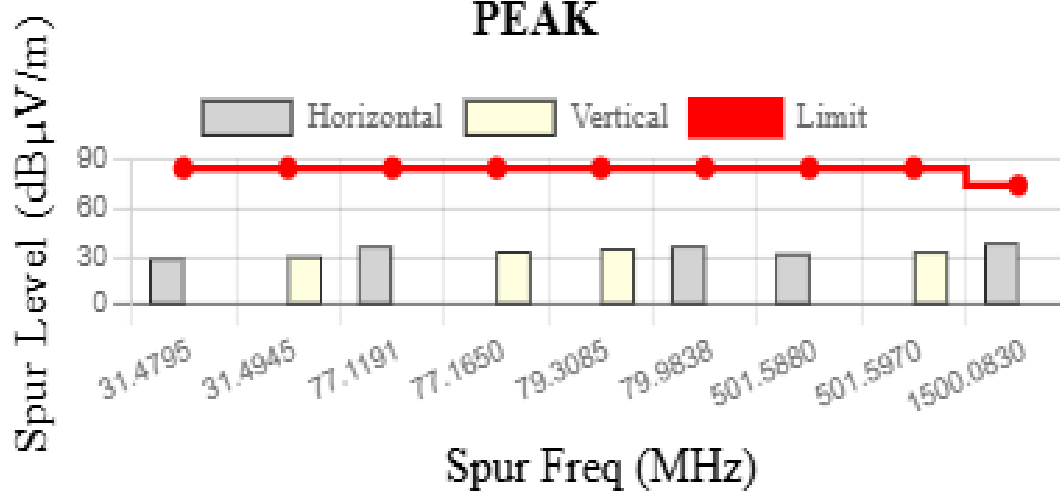
NOTE :

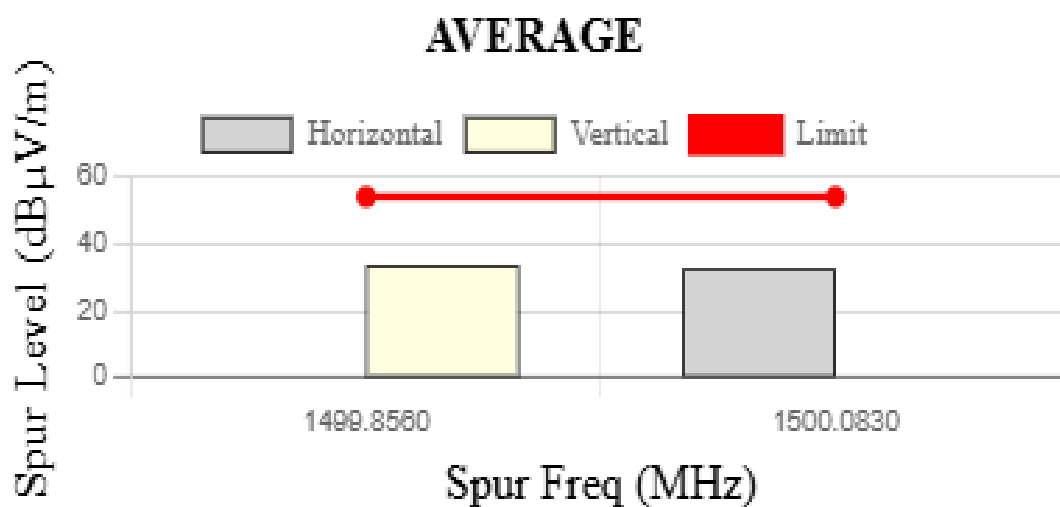
- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

QUASI-PEAK



PEAK





SAC TX Radiated Emission : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01
Test Mode : BT - PI/4-DQPSK Channel SP/Bandwidth (kHz) : 1000.0000
Test Frequency (MHz) : 2480.0000 Softpot Power : 12.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Voltage (V) : 120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Peak	30.4604	28.67 *	104.73	84.73	56.05
Vertical	Peak	30.7051	30.68 *	104.73	84.73	54.05
Vertical	Peak	70.6854	34.11 *	104.73	84.73	50.62
Horizontal	Peak	71.4277	34.85 *	104.73	84.73	49.88
Horizontal	Peak	79.2879	38.03 *	104.73	84.73	46.69
Vertical	Peak	79.7205	34.80 *	104.73	84.73	49.93
Horizontal	Peak	138.9030	33.35 *	104.73	84.73	51.38
Vertical	Peak	138.9420	26.77 *	104.73	84.73	57.95
Vertical	Quasi-Peak	250.0090	23.57 *	-	46.00	22.43
Horizontal	Quasi-Peak	250.0230	29.00	-	46.00	17.00
Vertical	Peak	501.5790	33.59 *	104.73	84.73	51.14
Horizontal	Peak	501.6159	31.74 *	104.73	84.73	52.99
Horizontal	Peak	1499.8590	37.68 *	-	74.00	36.32
Horizontal	Average	1499.8590	30.30 *	-	54.00	23.70
Vertical	Peak	1500.0220	39.94 *	-	74.00	34.06
Vertical	Average	1500.0220	33.86 *	-	54.00	20.14

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Mon, 13 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

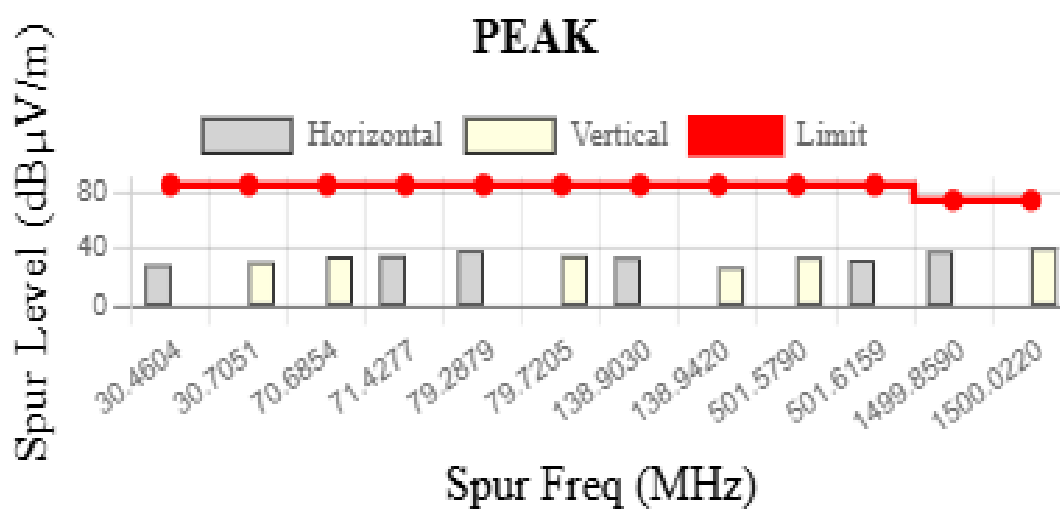
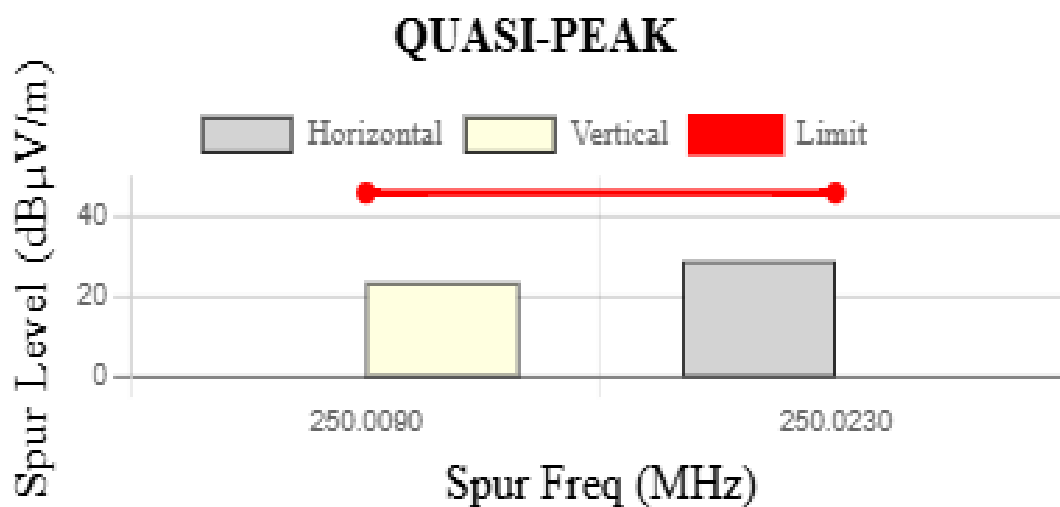
Remarks:

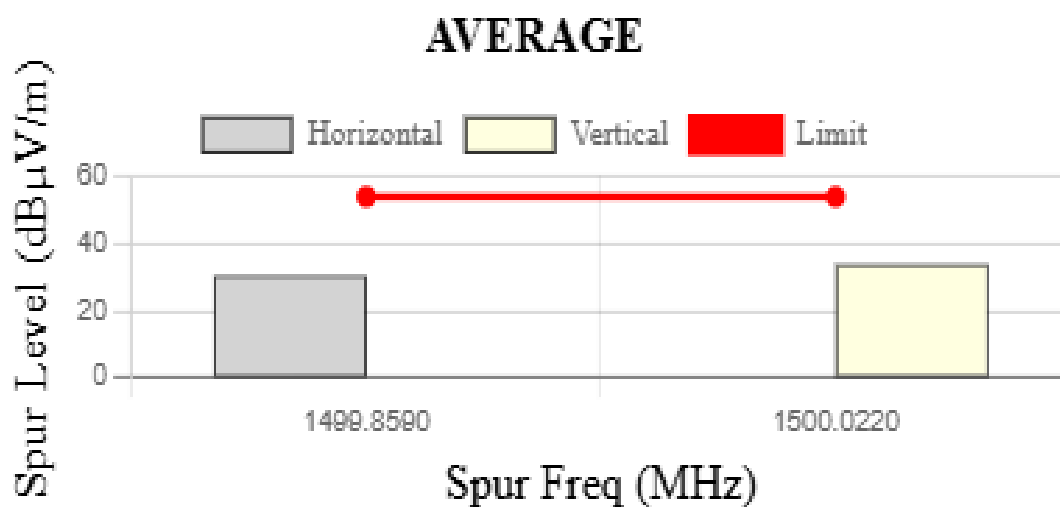
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.





SAC TX Radiated Emission : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01
Test Mode : BT - 8-DPSK Channel SP/Bandwidth (kHz) : 1000.0000
Test Frequency (MHz) : 2402.0000 Softpot Power : 12.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Voltage (V) : 120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	71.6898	30.15 *	104.73	84.73	54.58
Horizontal	Peak	72.0305	34.21 *	104.73	84.73	50.52
Vertical	Quasi-Peak	74.5220	20.67	-	40.00	19.33
Horizontal	Quasi-Peak	74.5620	28.20	-	40.00	11.80
Horizontal	Peak	79.1282	36.52 *	104.73	84.73	48.21
Vertical	Peak	79.3919	32.42 *	104.73	84.73	52.30
Vertical	Peak	157.2597	25.56 *	104.73	84.73	59.17
Horizontal	Peak	157.2787	32.71 *	104.73	84.73	52.01
Vertical	Peak	160.9944	26.49 *	104.73	84.73	58.24
Horizontal	Peak	161.0953	34.80 *	104.73	84.73	49.93
Horizontal	Peak	501.6050	31.77 *	104.73	84.73	52.96
Vertical	Peak	501.6149	33.60 *	104.73	84.73	51.13
Vertical	Peak	1499.9650	40.28 *	-	74.00	33.72
Vertical	Average	1499.9650	34.31	-	54.00	19.69
Horizontal	Peak	1500.0670	38.77 *	-	74.00	35.23
Horizontal	Average	1500.0670	32.68 *	-	54.00	21.32

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Mon, 13 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

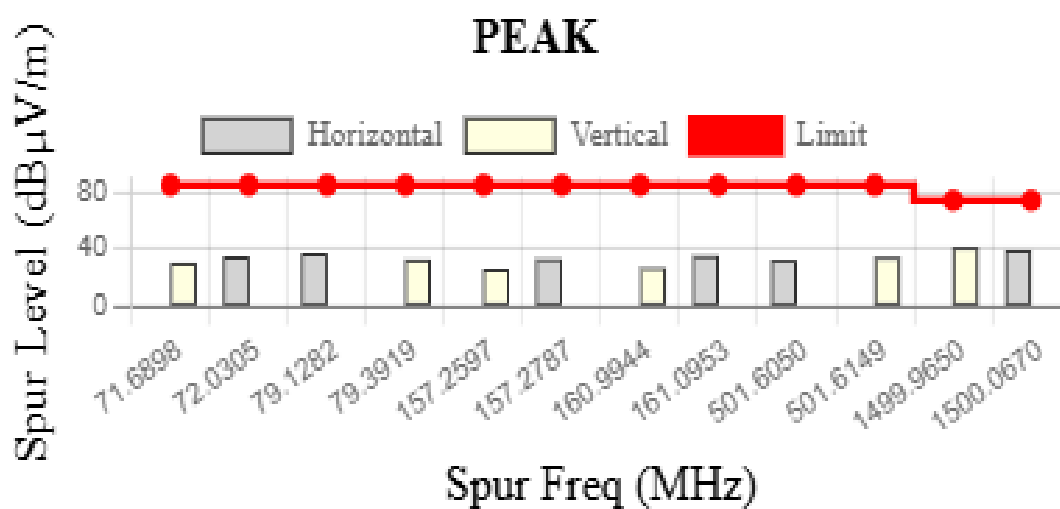
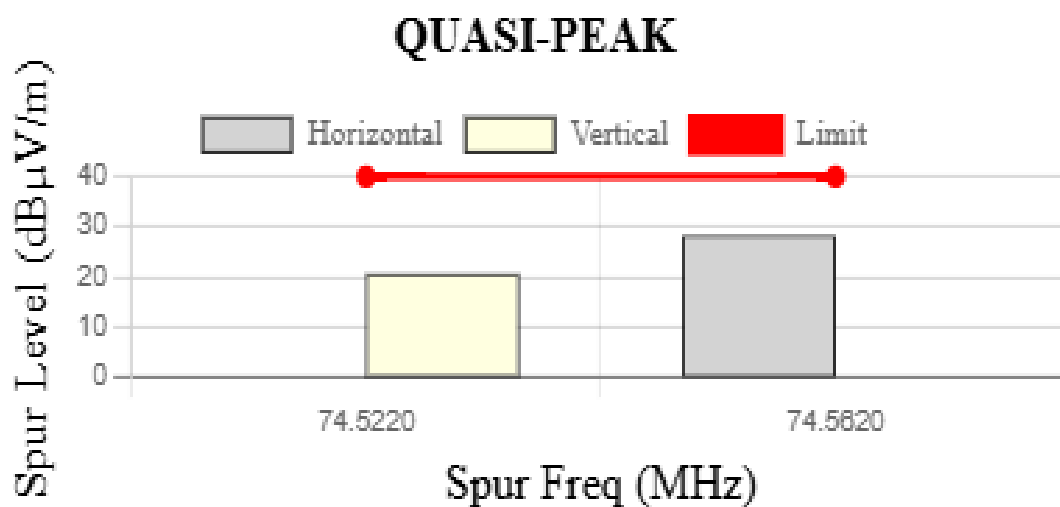
Remarks:

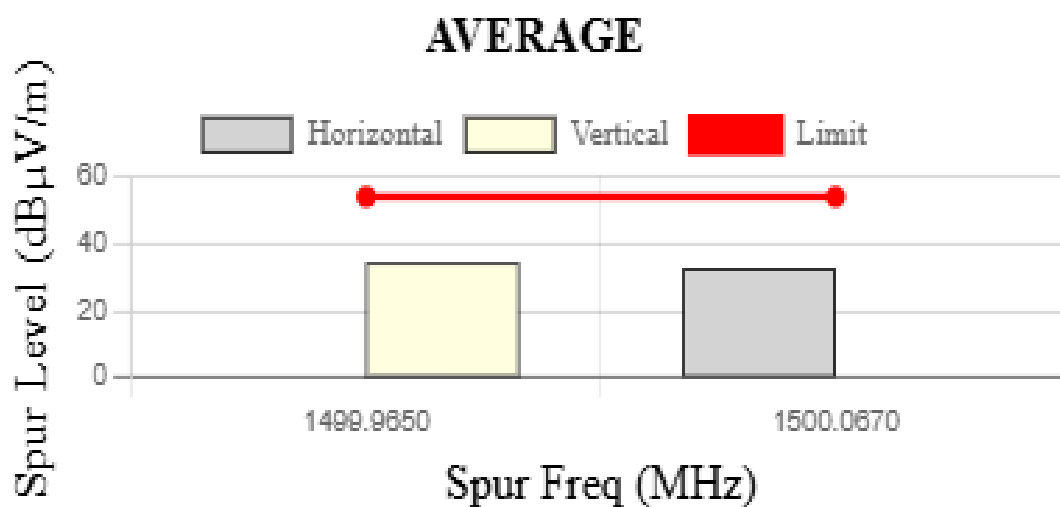
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.





SAC TX Radiated Emission : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01
Test Mode : BT - 8-DPSK Channel SP/Bandwidth (kHz) : 1000.0000
Test Frequency (MHz) : 2441.0000 Softpot Power : 12.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Voltage (V) : 120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Peak	30.8818	28.16 *	104.73	84.73	56.57
Vertical	Peak	31.0696	30.18 *	104.73	84.73	54.54
Horizontal	Quasi-Peak	74.8074	24.34	-	40.00	15.66
Vertical	Quasi-Peak	75.1602	29.11	-	40.00	10.89
Horizontal	Peak	79.2680	36.74 *	104.73	84.73	47.99
Vertical	Peak	79.3339	34.99 *	104.73	84.73	49.73
Horizontal	Quasi-Peak	130.5280	30.85	-	43.50	12.65
Vertical	Quasi-Peak	130.8367	20.80 *	-	43.50	22.70
Horizontal	Peak	141.8519	34.91 *	104.73	84.73	49.82
Vertical	Peak	141.9538	28.06 *	104.73	84.73	56.67
Horizontal	Peak	501.5810	30.93 *	104.73	84.73	53.80
Vertical	Peak	501.5990	33.57 *	104.73	84.73	51.16
Horizontal	Peak	1499.9190	38.77 *	-	74.00	35.23
Horizontal	Average	1499.9190	31.85 *	-	54.00	22.15
Vertical	Peak	1500.1220	38.41 *	-	74.00	35.59
Vertical	Average	1500.1220	31.39 *	-	54.00	22.61

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Mon, 13 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

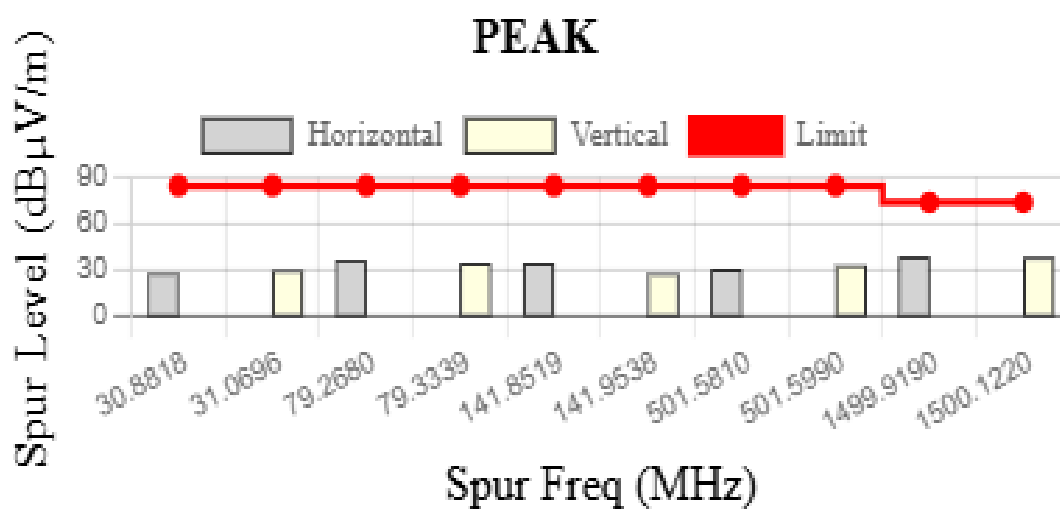
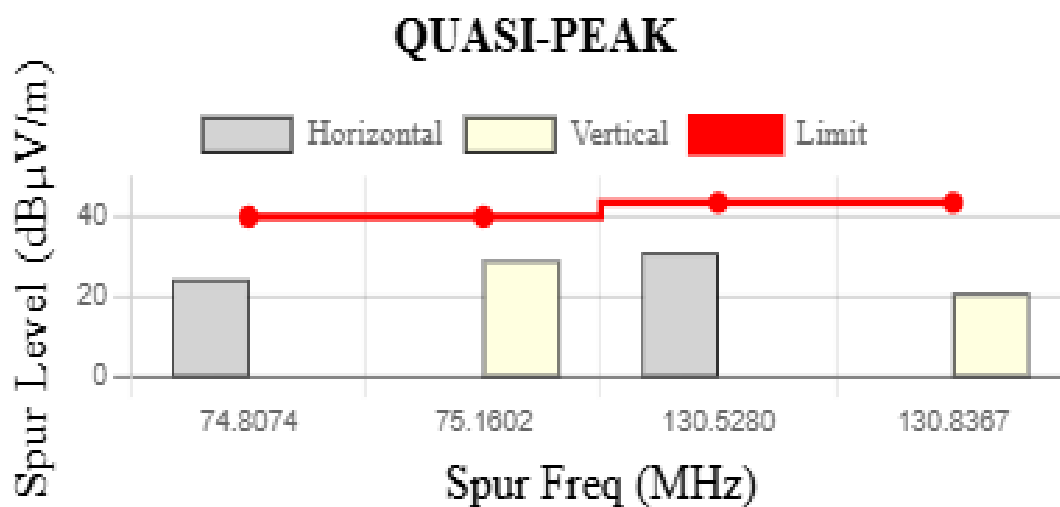
Remarks:

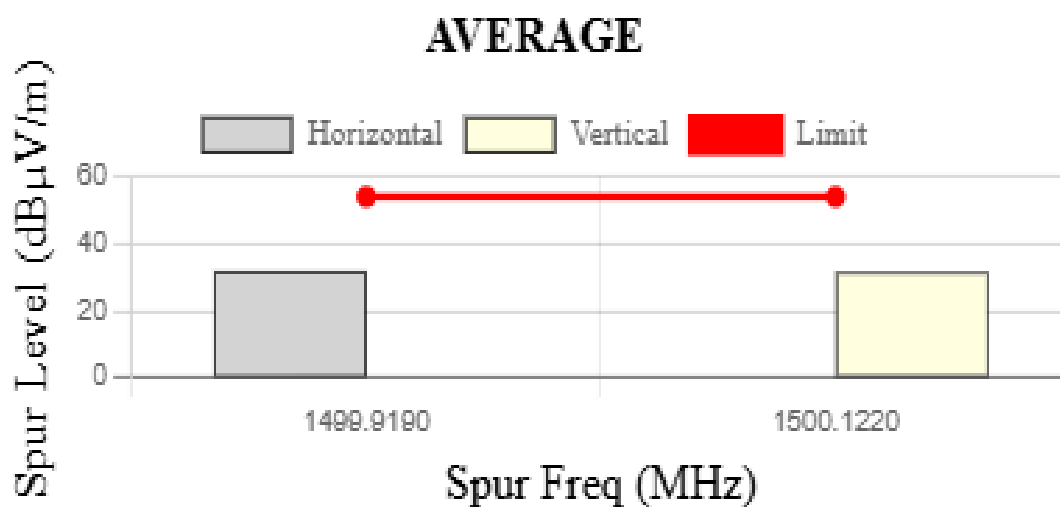
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.





SAC TX Radiated Emission : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01
Test Mode : BT - 8-DPSK Channel SP/Bandwidth (kHz) : 1000.0000
Test Frequency (MHz) : 2480.0000 Softpot Power : 12.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Voltage (V) : 120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Peak	30.3862	28.87 *	104.73	84.73	55.85
Vertical	Peak	30.8887	30.84 *	104.73	84.73	53.89
Horizontal	Quasi-Peak	74.5120	27.04	-	40.00	12.96
Vertical	Quasi-Peak	74.5740	30.72	-	40.00	9.28
Horizontal	Peak	77.1690	35.55 *	104.73	84.73	49.18
Vertical	Peak	77.1930	34.53 *	104.73	84.73	50.20
Vertical	Peak	79.7430	34.53 *	104.73	84.73	50.20
Horizontal	Peak	79.8409	36.09 *	104.73	84.73	48.64
Vertical	Quasi-Peak	128.8849	15.38 *	-	43.50	28.12
Horizontal	Quasi-Peak	128.9568	28.19	-	43.50	15.31
Vertical	Peak	501.6020	33.98 *	104.73	84.73	50.75
Horizontal	Peak	501.6069	32.04 *	104.73	84.73	52.68
Vertical	Peak	1444.5910	34.81 *	-	74.00	39.19
Vertical	Average	1444.5910	20.78 *	-	54.00	33.22
Horizontal	Peak	1444.6730	36.68 *	-	74.00	37.32
Horizontal	Average	1444.6730	23.60 *	-	54.00	30.40
Horizontal	Peak	1499.8070	38.96 *	-	74.00	35.04
Horizontal	Average	1499.8070	33.03 *	-	54.00	20.97
Vertical	Peak	1499.8910	40.12 *	-	74.00	33.88
Vertical	Average	1499.8910	35.02	-	54.00	18.98

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Mon, 13 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

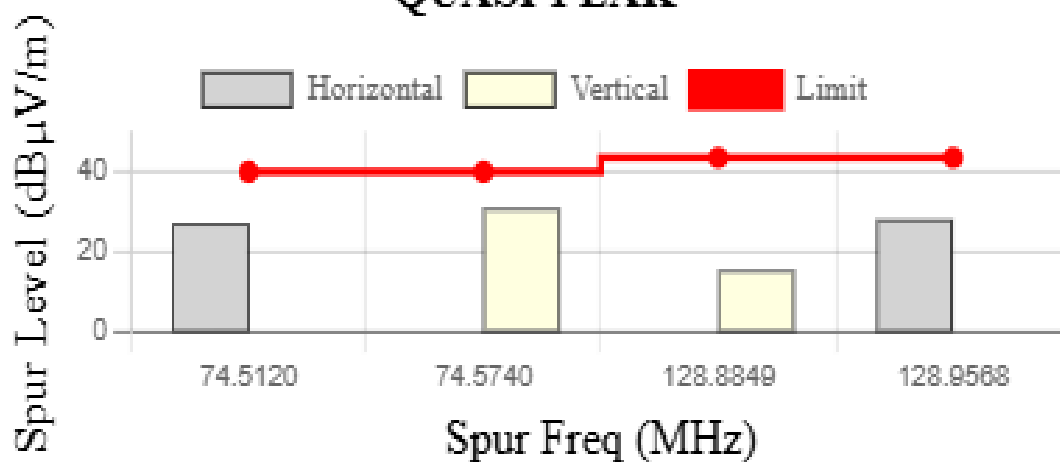
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

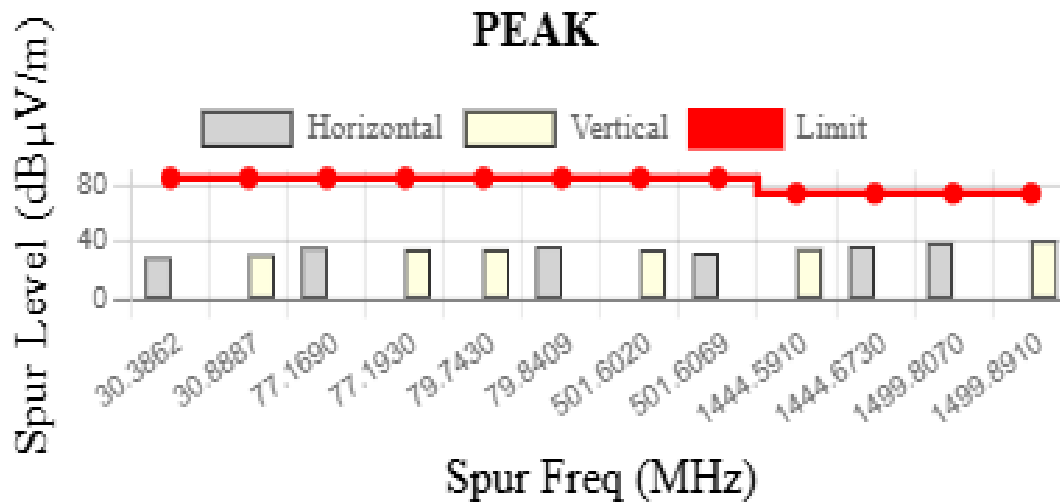
NOTE :

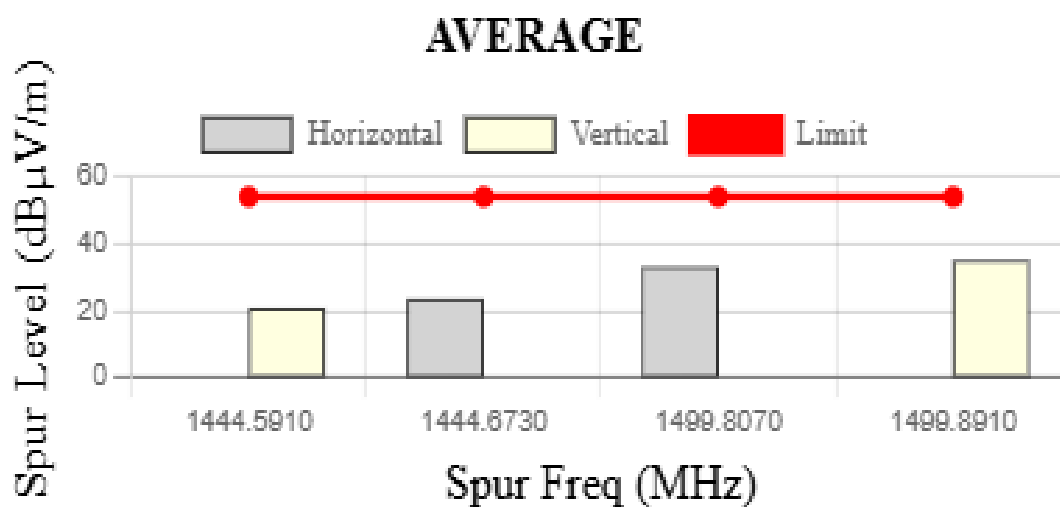
- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

QUASI-PEAK



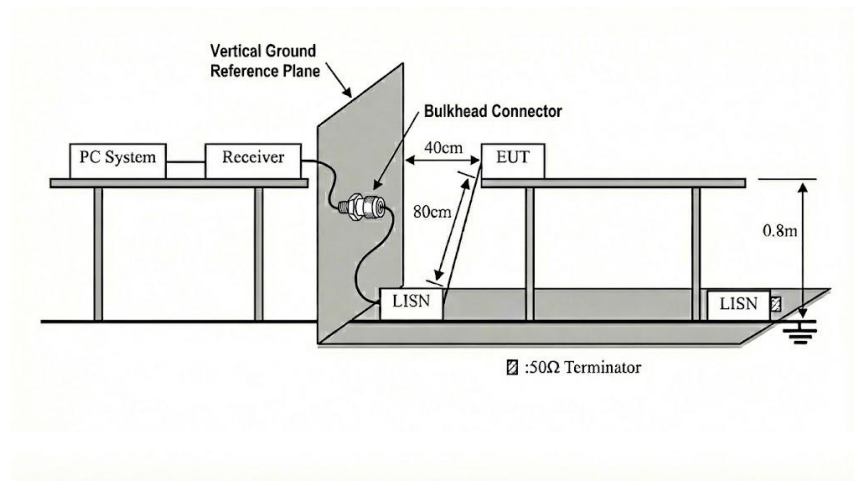
PEAK





6.9.AC Powerline Conducted Emission

6.9.1. Test Setup



- 1) Tests were conducted for both Receive and Transmit Mode of the EUT.
- 2) The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN) and connected to test receiver. All other EUT support units were connected to the power mains through another LISN terminated with 50 ohm loads.
- 3) Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- 4) The frequency range from 150 kHz to 30MHz was measured.

6.9.2. Test Limits:

For AC Power Line Conducted Test Limit can be Class A or B depends on product classification.

**Limits for conducted disturbance at the mains ports
of class A ITE**

Frequency range MHz	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	79	66
0,50 to 30	73	60
NOTE The lower limit shall apply at the transition frequency.		

Table 1: Limits for Conducted Disturbance at the Mains Ports of Class A ITE.

**Limits for conducted disturbance at the mains ports
of class B ITE**

Frequency range MHz	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50
NOTE 1 The lower limit shall apply at the transition frequencies. NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.		

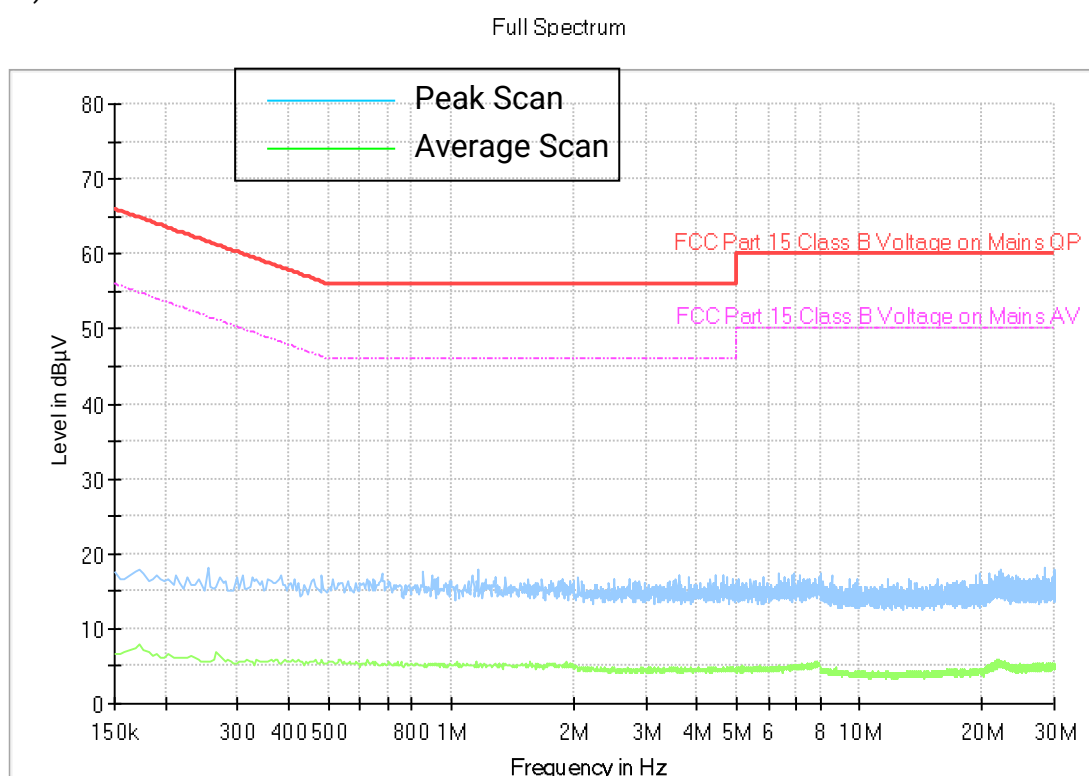
Table 2: Limits for Conducted Disturbance at the Mains Ports of Class B ITE

6.9.3. Test Result

Report ID: 1467N00-EMC-00042
Temperature: 22.2 °C
Humidity: 64.4 %RH
Tester: Helmy
Date of Test: 20 April 2026

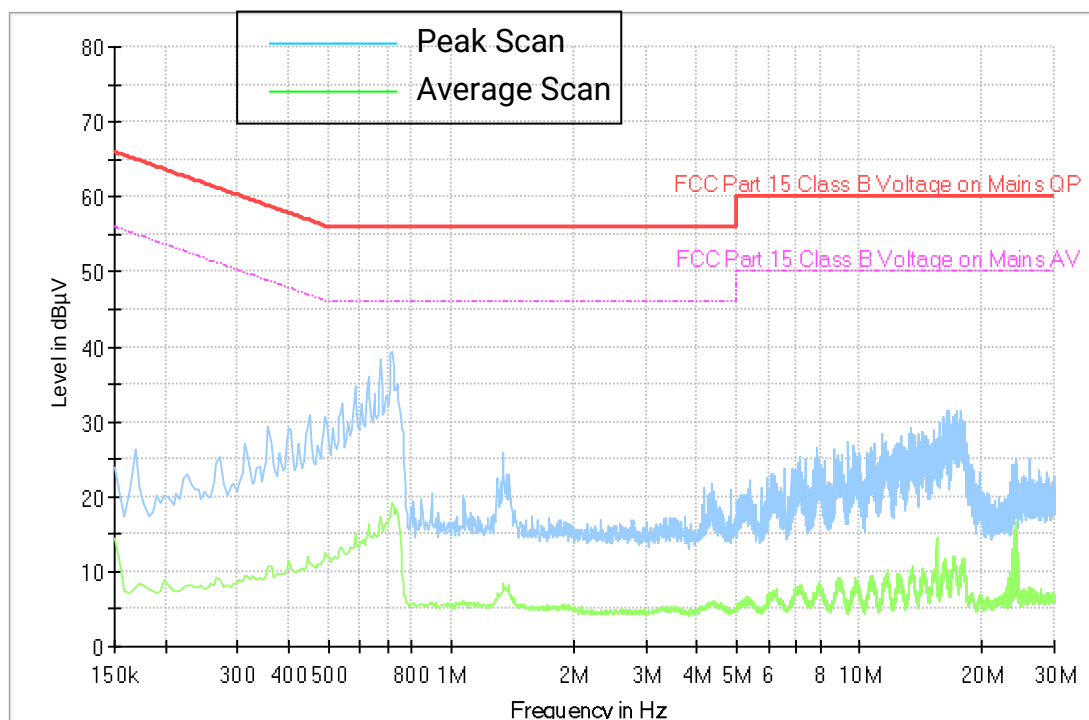
Test Data
120 VAC, 60Hz

1) Ambient



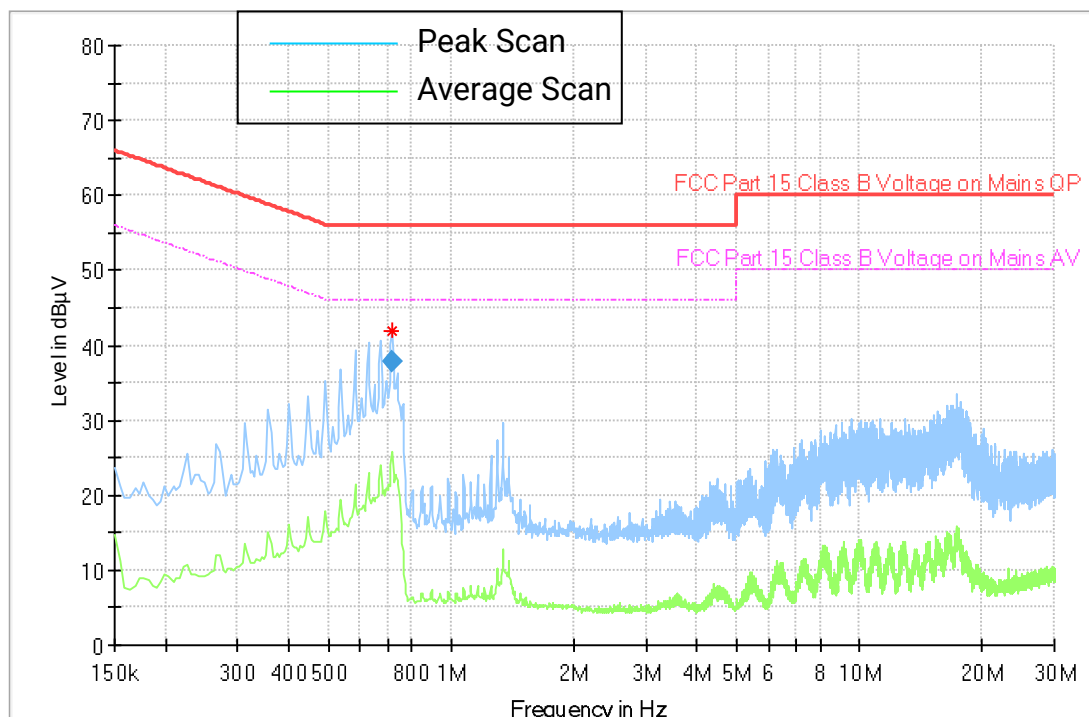
2) PSU Alone

Full Spectrum



3) PSU + Radio Off

Full Spectrum

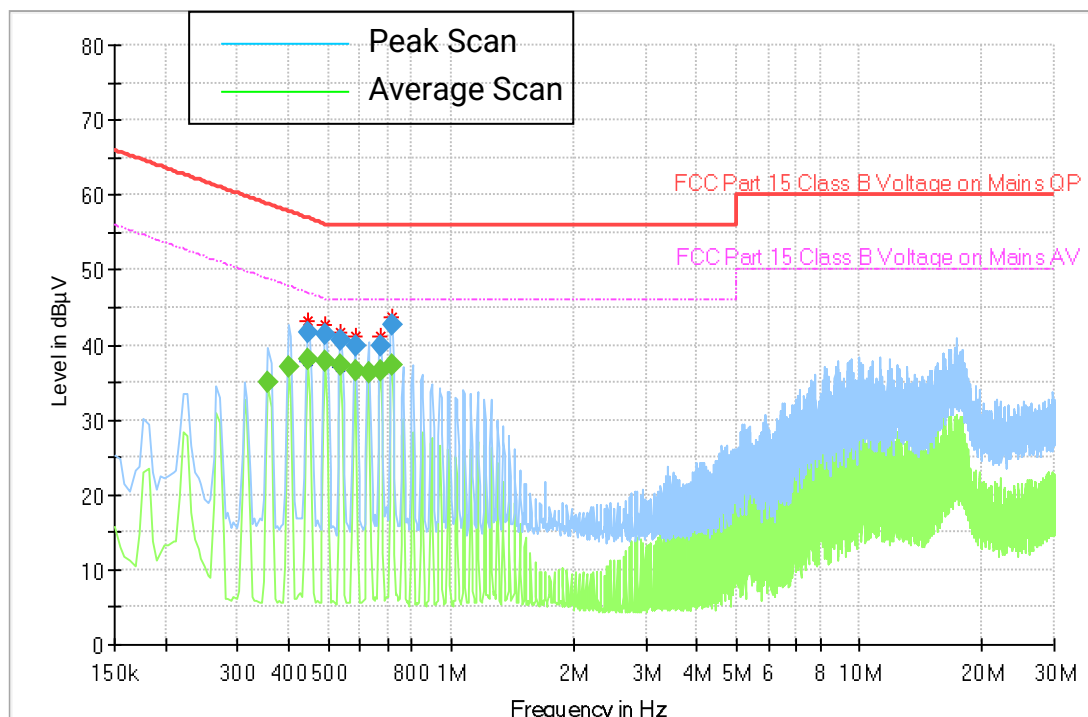


QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.717000	37.70	---	56.00	18.30	N	ON	9.9

4) PSU + Radio Standby

Full Spectrum

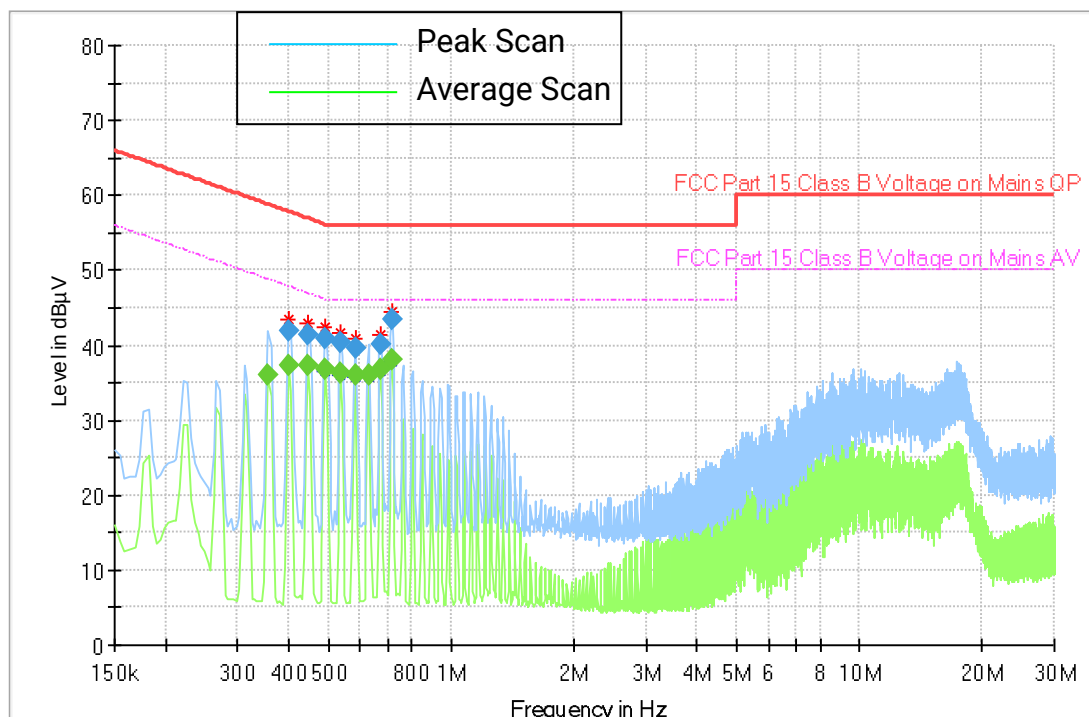


QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.357000	---	35.05	48.80	13.75	N	ON	10.0
0.402000	---	37.09	47.81	10.72	N	ON	10.0
0.447000	---	37.99	46.93	8.94	N	ON	10.0
0.447000	41.75	---	56.93	15.18	N	ON	10.0
0.492000	---	37.87	46.13	8.27	N	ON	10.0
0.492000	41.38	---	56.13	14.76	N	ON	10.0
0.537000	---	37.19	46.00	8.81	N	ON	10.0
0.537000	40.59	---	56.00	15.41	N	ON	10.0
0.582000	39.79	---	56.00	16.21	N	ON	10.0
0.582000	---	36.62	46.00	9.38	N	ON	10.0
0.627000	---	36.40	46.00	9.60	N	ON	10.0
0.672000	39.84	---	56.00	16.16	N	ON	9.9
0.672000	---	36.64	46.00	9.36	L1	ON	9.9
0.717000	---	37.33	46.00	8.67	N	ON	9.9
0.717000	42.68	---	56.00	13.32	L1	ON	9.9

5) PSU + Radio Standby (BT EDR TX CH: 2402, MOD: 8DPSK)

Full Spectrum



QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.357000	---	36.16	48.80	12.64	N	ON	10.0
0.402000	---	37.43	47.81	10.38	N	ON	10.0
0.402000	41.99	---	57.81	15.83	L1	ON	10.0
0.447000	---	37.36	46.93	9.57	N	ON	10.0
0.447000	41.43	---	56.93	15.50	N	ON	10.0
0.492000	---	36.69	46.13	9.45	N	ON	10.0
0.492000	40.98	---	56.13	15.15	L1	ON	10.0
0.537000	40.29	---	56.00	15.71	L1	ON	10.0
0.537000	---	36.18	46.00	9.82	N	ON	10.0
0.582000	39.68	---	56.00	16.32	L1	ON	10.0
0.582000	---	35.99	46.00	10.01	N	ON	10.0
0.627000	---	36.01	46.00	9.99	L1	ON	10.0
0.672000	40.07	---	56.00	15.93	N	ON	9.9
0.672000	---	36.71	46.00	9.29	L1	ON	9.9
0.717000	---	38.03	46.00	7.97	N	ON	9.9
0.717000	43.46	---	56.00	12.55	N	ON	9.9

END OF TEST REPORT