

FCC Test Report (Part 15 Subpart C)

FCC ID: 2AM8R-D810

Client Information:

*Applicant: Netradyne Inc

*Applicant add.: 9171 Towne Centre Drive, Suite 110, San Diego, CA 92122

Manufacturer: Netradyne Inc

*Manufacturer add.: 9171 Towne Centre Drive, Suite 110, San Diego, CA 92122

Product Information:

Sampling Details.....: The below Test Item provided by applicant

*Product Name: Driveri

*Model No.: D-810

*Derivative model No.: D-810A, D-811

*Brand Name:



Applied Standard:

FCC PART 15 Subpart C:2013 section 15.247

Laboratory Details:

AA Electro Magnetic Test Laboratory Private Limited

PlotNo174, Udyog Vihar-Phase4, Sector18, Gurgaon, Haryana, India

Date of Receipt: Apr. 02, 2025

Date of Test: Apr. 02 ~ May. 08, 2025

Date of Issue: May. 23, 2025

Test Result: **In Compliance/Pass**

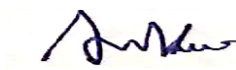
Declaration of Conformity: Declaration of conformity of the results is based as per the standard limits

Disclaimer: The * Information are provided by Manufacturer and it is verified through the Request form and Marking

Label, AA Electro Magnetic Test Laboratory is not responsible for the above information accuracy. This device described above has been tested by AA Electro Magnetic Test Laboratory Private Limited, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

*This test report must not be used by the client to claim product endorsement by any agency of the U.S. government.

Prepared By (+ signature) Ankur Kumar:



Reviewed & Approved by: (+ signature)

Dr. Lenin Raja (Authorized Representative)/(lenin83/)



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2 Test Summary

2.1 Compliance with FCC Part 15 subpart C

Test	Test Requirement	Standard Paragraph	Result
Antenna Requirement	FCC Part 15 C	Section 15.247©	PASS
Conduction Emissions	FCC Part 15 C	Section 15.207(a)	PASS
Radiated Emissions	FCC Part 15 C	Section 15.247(d)	PASS
Bandwidth Test	FCC Part 15 C	Section 15.247(a)	PASS
Carrier Frequencies Separated	FCC Part 15 C	Section 15.247(a)(1)	PASS
Hopping Channel Number	FCC Part 15 C	Section 15.247(a)(1) (iii)	PASS
Dwell Time	FCC Part 15 C	Section 15.247(a)(1) (iii)	PASS
Maximum Peak Output Power	FCC Part 15 C	Section 15.247(b)	PASS
Band edge	FCC Part 15 C	Section 15.247(d)	PASS
Conducted Spurious Emissions	FCC Part 15 C	Section 15.247(d)	PASS
Note: N/A is an abbreviation for Not Applicable.			
Model description: N/A			
(1)	Reference to the FCC Public Notice DA 00-705		
(2)	Reference to ANSI C63.10		

2.2 Test Location

All tests were performed at:

AA Electro Magnetic Test Laboratory Private Limited

Plot No 174, Udyog Vihar - Phase 4, Sector 18, Gurgaon, Haryana, India

Tel.: +91-0124-4235350

2.3 Measurement Uncertainty

All measurements involve certain levels of uncertainties, The following measurements uncertainty Levels have estimated based on ANSI C63.4:2009, the maximum value of the uncertainty as below

No.	Item	Uncertainty
1	Conducted Emission Test	2.83dB
2	Radiated Emission Test	3.78dB

3 Test Facility

ILAC / NABL Accreditation No.: TC-8597

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered by National Accreditation Board for Testing and Calibration Laboratories (NABL).

ILAC –A2LA Accreditation No.: 5593.01

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered American Association of Laboratory Accreditation (A2LA.)

FCC- Recognition No.: 137777

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered by Federal Communications Commission (FCC).

ISED Recognition No.: 26046

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered by Institute for Social and Economic Development.(ISED)

VCCI- Registration No: 4053

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered by Voluntary Control Council for Interference.(VCCI)

TEC Designation No.: IND063

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered by Telecommunication Engineering (TEC) Center.

BIS Recognition No: 816586

BIS recognized as per CRS scheme for IT electronics, LED control gears, Lamp, Inverter / UPS are recognized as per LRS 2020.

3.1 Deviation from standard


None

3.2 Abnormalities from standard conditions

None

4 General Information

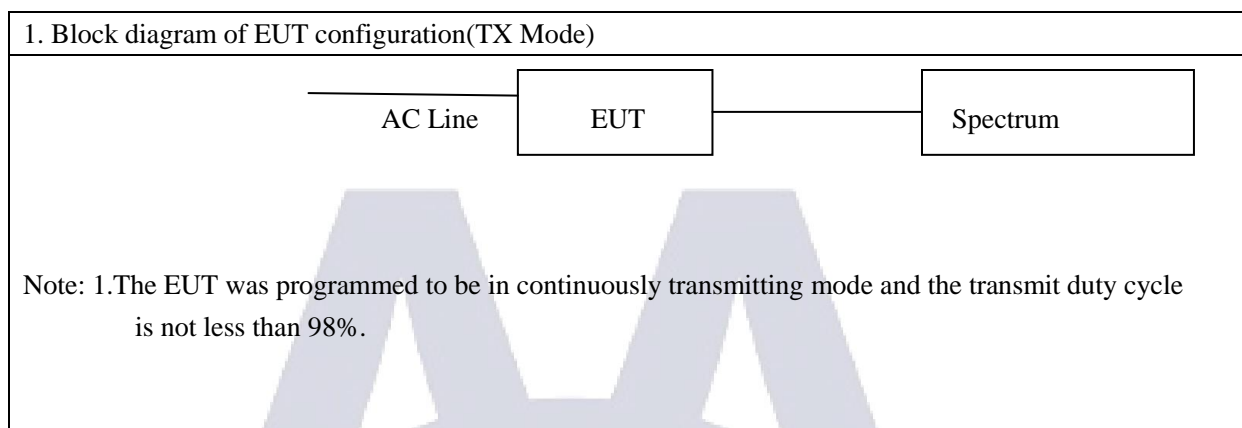
4.1 General Description of EUT

Manufacturer:	Netradyne Inc
Manufacturer Address:	9171 Towne Centre Drive, Suite 110, San Diego, CA 92122
EUT Name:	Driveri
Model No:	D-810
Brand Name:	 netradyne
Derivative model No.:	D-810A, D-811
Serial No:	125182500042
Operation frequency:	2402 MHz to 2480 MHz
Number Of Channel:	79
Modulation Technology:	GFSK, $\pi/4$ -DQPSK, 8DPSK (1/2/3Mbps)
Antenna Gain:	-2.6dBi
H/W No.:	125-00-00001
S/W No.:	15.0.5
Power Supply Range:	Input of AC Adapter: AC 100-240V, 0.5A, 50-60Hz Output of AC Adapter/Input of EUT : DC 12V, 5A
Condition of Sample on receipt:	Good
Note:	1 .For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. Antenna gain and antenna type provided by manufacturer.
Opinions and Interpretations:	See the specific Note / Annexure if any in the whole /full report/NA

Description of Channel:					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

4.2 Description of Test conditions

- (1) EUT was tested in normal configuration (Please See following Block diagram)



- (2) E.U.T. test conditions:

15.31(e): For intentional radiators, measurements of the variation of the input power or the adiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

- (3) Test frequencies:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and. If required reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

- (4) Frequency range of radiated measurements:

According to the 15.33, the test range will be up to the tenth harmonic of the highest fundamental frequency.

- (5) Pre-test the EUT in all transmitting mode at the lowest (2402 MHz), middle (2441 MHz) and highest (2480 MHz) channel with different data packet and conducted to determine the worst-case mode, only the worst-case results(1Mbps/2Mbps/3Mbps) are recorded in this report.

4.3 Test Peripheral List

No.	Equipment	Manufacturer	EMC Compliance	Model No.	Serial No.	Power cord	signal cable
1	Laptop	DELL	N/A	Latitude 3490	5M2Z1W2	2m unshielded	N/A

4.4 EUT Peripheral List

No.	Equipment	Manufacturer	FCC ID	Model No.	Serial No.	Power cord	signal cable
1	AC ADAPTER	DELTA ELECTRONIC S, INC.	--	LA-45WLAJI	N/A	1 meter	N/A

5 Equipments List for All Test Items

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal.Due Date
1	Spectrum Analyser	R&S	FSP	-	2024/01/10	2026/01/10
2	Loop antenna	DA ZE Beijing	ZN30900C	18052	2023/09/15	2026/09/15
3	Hi power horn antenna	DAZE Beijing	ZN30700	18012	2023/09/11	2026/09/10
4	MXA Signal Analyzer	KEYSIGHT	N9020A	MY53290443	2023/07/27	2025/07/27
5	Horn antenna	DAZE Beijing	ZN30703	18005	2023/09/11	2026/09/10
6	Pre-Amplifier	KELIANDA	LNA-0009295	-	2024/01/10	2026/01/10
7	Pre-Amplifier	HP	8447FOPTH64	-	2024/01/10	2026/01/10
8	Biconical Antenna	DAZE Beijing	ZN30505C	17038	2023/09/11	2026/09/10
9	EMI- Test RECEIVER	Rohde and Schwarz	ESIB26	509371	2023/06/11	2025/06/10
10	LISN	Kyoritsu	KNW-407	8-1789-5	2024/01/10	2026/01/10
11	Network – LISN	Schwarzbeck	NNBM8125	81251314	2024/01/10	2026/01/10
12	Network – LISN	Schwarzbeck	NNBM8125	81251315	2024/01/10	2026/01/10
13	PULSE LIMITER	Rohde and Schwarz	ESH3-Z2	100681	-	-
14	50Ω Coaxial Switch	DAIWA	1565157	-	-	-
15	50Ω Coaxial Switch	-	-	-	-	-
16	USB RF Power Sensor	DARE!!	RPR3006W	18I00043SN O02	2025/01/13	2026/01/12
17	USB RF Power Sensor	DARE!!	RPR3006W	18I00043SN O04	2025/01/13	2026/01/12
18	Signal Generator	KEYSIGHT	N5181A	512071	2024/01/10	2026/01/10
19	RF Vector Signal Generator	KEYSIGHT	N5182B	512094	2024/01/10	2026/01/10

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20	Spectrum analyzer	ROHDE & SCHWARZ	FSV40-N	101385	2023/04/28	2025/04/28
21	Radio Communication Tester	ROHDE & SCHWARZ	CMW 500	124589	2023/09/08	2025/09/08
22	Signal Generator	R&S	SMP 02	837017/004	2023/09/08	2025/09/07
23	DC Regulated Power	Metravi	RPS-3005	669076	2023/12/12	2025/12/11
24	Climatic Chamber (Environmental Chamber)	SUNRISE SCIENTIFIC	-	-	2024/11/06	2025/11/05
25	Attenuators	HP	8494B	1510A04625	2024/03/21	2026/03/21
26	Attenuators	AGILENT	8495B	MY42140429	2024/03/21	2026/03/21

6 Test Result

6.1 Antenna Requirement

6.1.1 Standard requirement

15.203 requirements: For intentional device, according to 15.203: an intentional radiator shall Be designed to ensure that no antenna other than that furnished by the responsible party shall be Used with the device.

15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used Exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional Gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

6.1.2 EUT Antenna

The antenna is a Patch Antenna with Cable which is connected to the board using a N-type to U.FL cable which is connected to the board via U.FL connector. Antenna gain is maximum -2.6dBi from 2.4GHz to 2.5 GHz.

6.2 Conduction Emissions Measurement

6.2.1 Applied procedures / Limit

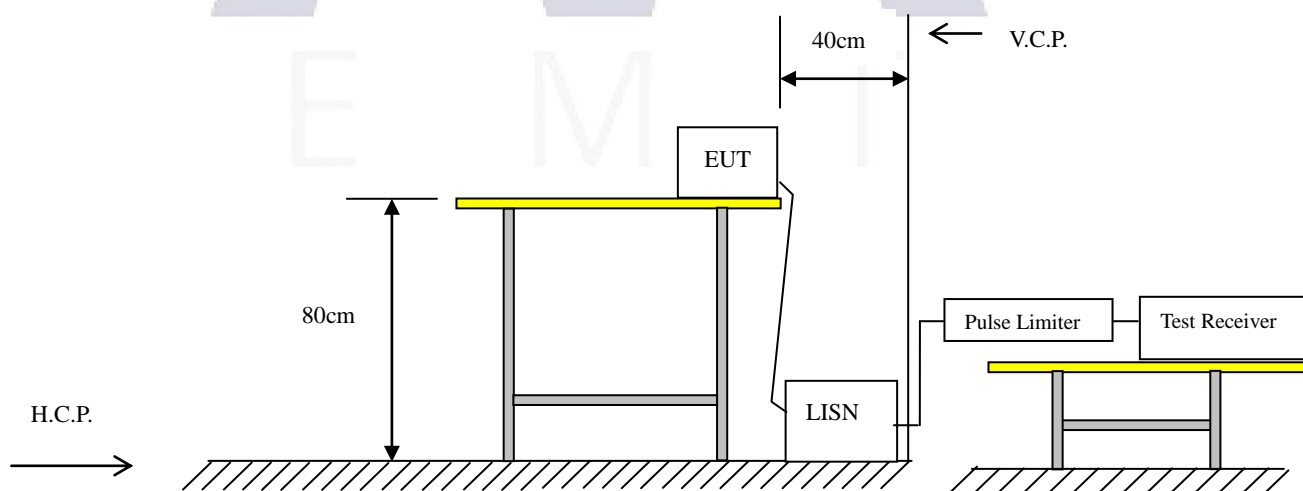
Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

Note: Decreases with the logarithm of the frequency.

6.2.2 Test procedure

EUT was placed upon a wooden test table 0.8m above the horizontal metal reference plane and 0.4m from the Vertical ground plane, and it was connected to an AMN. The closest distance between the boundary of the EUT and the surface of the AMN is 0.8m. All peripherals were connected to another AMN, and placed at a distance of 10cm from each other. A spectrum and receiver was connected to the RF output port of the AMN. Both average and quasi-peak value were detected.

6.2.3 Test setup

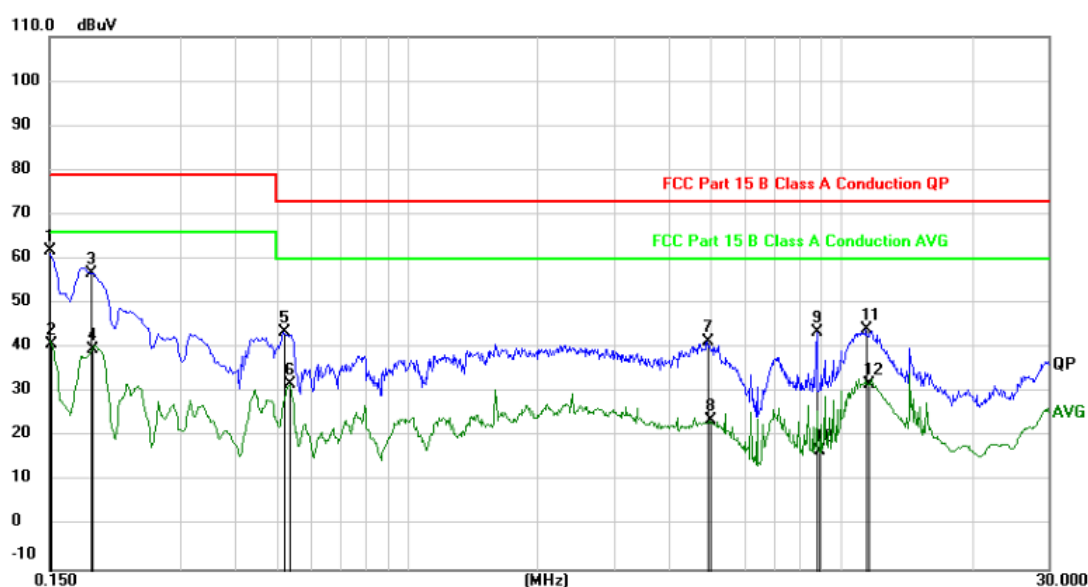


6.2.4 Test results

EUT:	Driveri	Model Name. :	D-810
Temperature:	25.8 °C	Relative Humidity:	52%
Pressure:	1010hPa	Test Date :	2025-04-24
Test Mode:	TX CH00 (1Mbps worst case)	Phase :	Line
Test Voltage :	110VAC,60Hz		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1499	49.87	11.95	61.82	79.00	-17.18	QP
2		0.1515	28.81	11.96	40.77	66.00	-25.23	AVG
3		0.1873	44.56	12.16	56.72	79.00	-22.28	QP
4		0.1883	27.61	12.16	39.77	66.00	-26.23	AVG
5		0.5190	32.49	10.97	43.46	73.00	-29.54	QP
6		0.5369	20.90	10.97	31.87	60.00	-28.13	AVG
7		4.9020	30.19	11.17	41.36	73.00	-31.64	QP
8		4.9965	12.64	11.17	23.81	60.00	-36.19	AVG
9		8.7990	32.15	11.34	43.49	73.00	-29.51	QP
10		8.8710	5.59	11.34	16.93	60.00	-43.07	AVG
11		11.4000	32.71	11.47	44.18	73.00	-28.82	QP
12		11.6025	20.40	11.48	31.88	60.00	-28.12	AVG

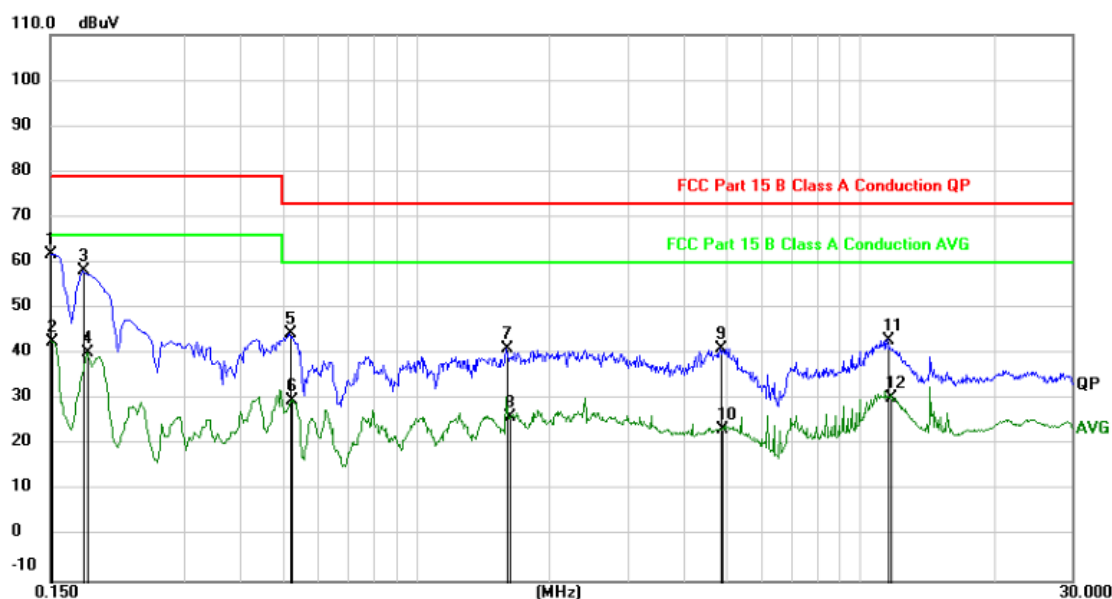
Remark: Factor = LISN factor + Cable Loss + Pulse limiter factor.



EUT:	Driveri	Model Name. :	D-450
Temperature:	25.8 °C	Relative Humidity:	52%
Pressure:	1010hPa	Test Date :	2025-04-24
Test Mode:	TX CH00 (worst case)	Phase :	Neutral
Test Voltage :	110VAC,60Hz		

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
	MHz	dBuV	dB	dBuV	dBuV	dB	
1 *	0.1499	50.16	11.75	61.91	79.00	-17.09	QP
2	0.1515	30.96	11.76	42.72	66.00	-23.28	AVG
3	0.1770	46.25	11.90	58.15	79.00	-20.85	QP
4	0.1815	28.25	11.92	40.17	66.00	-25.83	AVG
5	0.5190	33.70	10.80	44.50	73.00	-28.50	QP
6	0.5237	19.05	10.80	29.85	60.00	-30.15	AVG
7	1.5988	30.23	10.90	41.13	73.00	-31.87	QP
8	1.6259	15.26	10.90	26.16	60.00	-33.84	AVG
9	4.8435	30.09	10.97	41.06	73.00	-31.94	QP
10	4.8885	12.56	10.97	23.53	60.00	-36.47	AVG
11	11.5260	32.08	11.02	43.10	73.00	-29.90	QP
12	11.7240	19.34	11.02	30.36	60.00	-29.64	AVG

Remark: Factor = LISN factor + Cable Loss + Pulse limiter factor.



6.3 Radiated Emissions Measurement

6.3.1 Applied procedures / Limit

15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

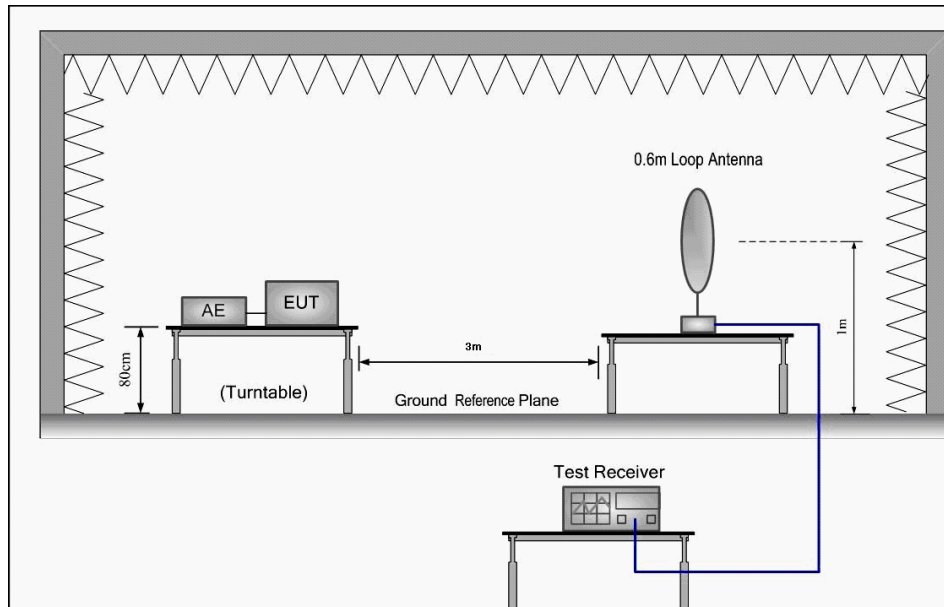
Frequency of Emission (MHz)	Field Strength		Measurement Distance (meters)
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	
0.009-0.49	2400/F(kHz)		300
0.49-1.705	24000/F(kHz)		30
1.705-30	30		30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

6.3.2 Test setup

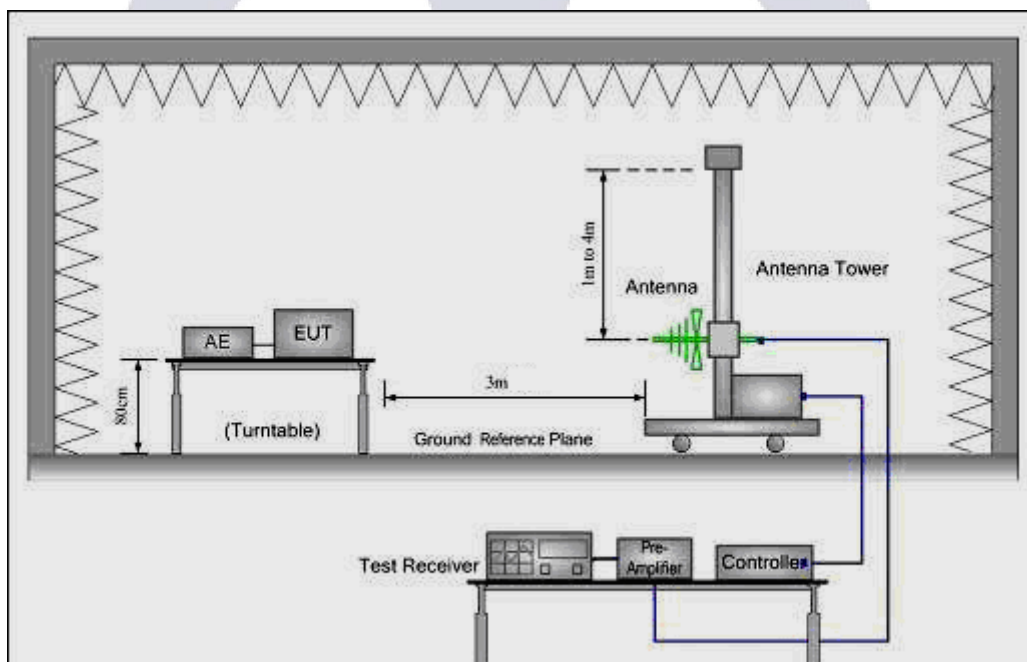
Test Configuration:

- 1) 9 kHz to 30 MHz emissions:

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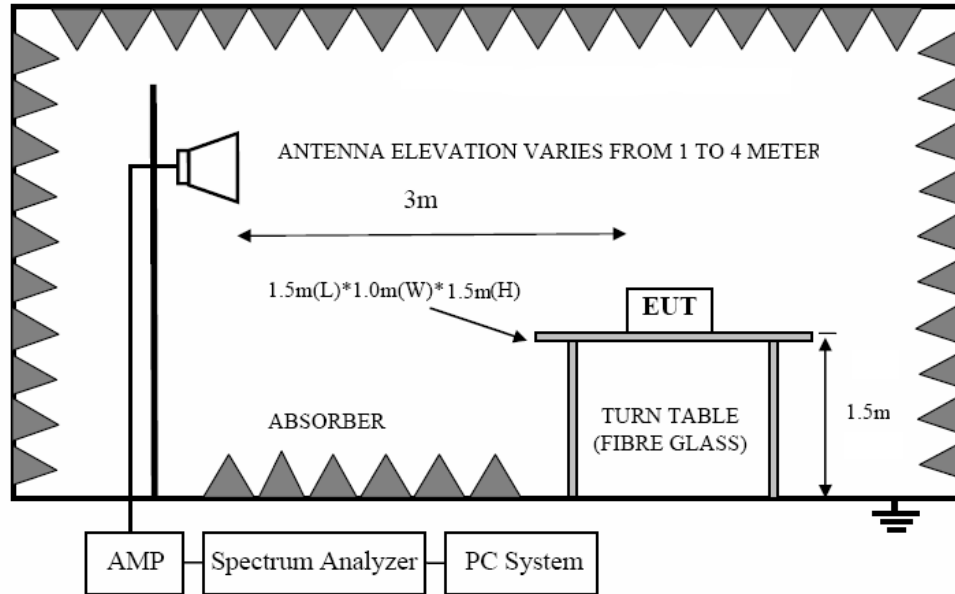


2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 25 GHz emissions:

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6.3.3 Test procedure

EUT was placed upon a wooden test table which was placed on the turn table 0.8m above the horizontal metal ground plane, and operating in the mode as mentioned above. A receiving antenna was placed 3m away from the EUT. During testing, turn around the turn table and move the antenna from 1m to 4m to find the maximum field-strength reading. All peripherals were placed at a distance of 10cm between each other. Both horizontal and Vertical antenna polarities were tested. The worst case emissions were reported.

For measurement at frequency above 1GHz

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

6.3.4 Test Result

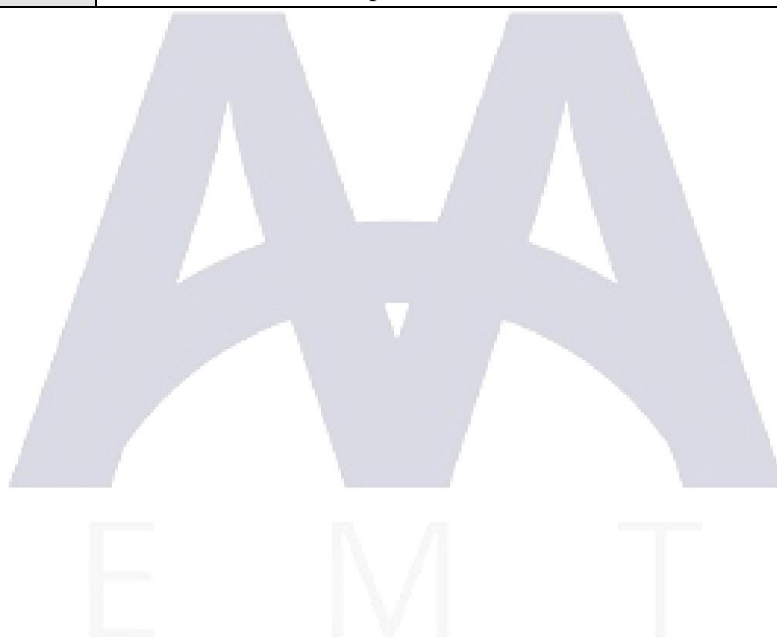
Radiated Emissions Test Data Below 30MHz

EUT:	Driveri	Model Name. :	D-810
Temperature:	25.4 °C	Relative Humidity:	53%
Pressure:	1010hPa	Test Date :	2025-04-28
Test Mode :	TX	Test Voltage :	110V AC, 60Hz
Measurement Distance	3 m	Frequency Range	9KHz to 30MHz
RBW/VBW	9KHz~150KHz/RB 200Hz for QP, 150KHz~30MHz/RB 9KHz for QP		

No emission found between lowest internal used/generated frequencies to 30MHz.

Radiated Emissions Test Data Below 1GHz

EUT:	Driveri	Model Name. :	D-810
Temperature:	25.4 °C	Relative Humidity:	53%
Pressure:	1010hPa	Test Date :	2025-04-28
Test Mode :	TX (1Mbps) CH00 (2402MHz)	Test Voltage :	110V AC, 60Hz
Measurement Distance	3 m	Frequency Range	30MHz to 1GHz
RBW/VBW	100KHz / 300KHz for spectrum, RBW=120KHz for receiver.		



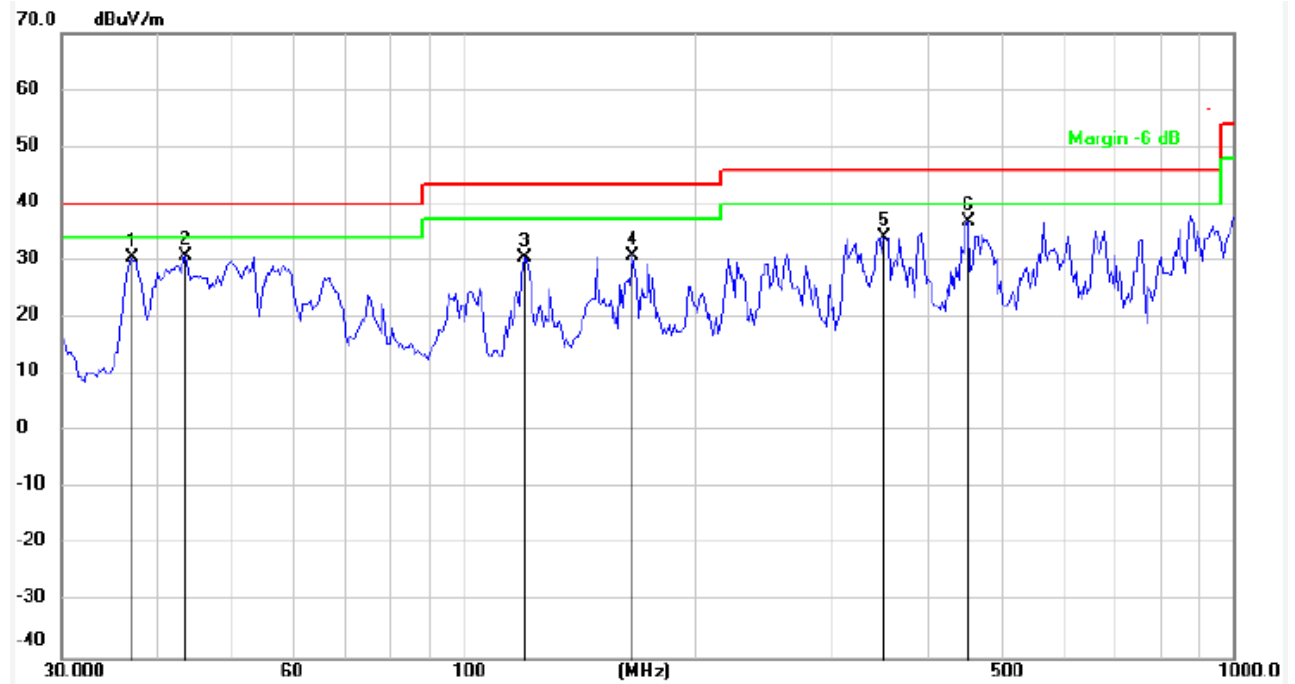
Test at Channel 00 (2.402 GHz) in transmitting status

30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

Vertical:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

No.	Frequency (MHz)	Factor (dBμV/m)	Reading (dBμV)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	37.0405	-23.30	53.74	30.44	40.00	-9.56	QP
2	43.5380	-17.21	48.00	30.79	40.00	-9.21	QP
3	119.7672	-14.88	45.40	30.52	43.50	-12.98	QP
4	165.4713	-15.46	46.38	30.92	43.50	-12.58	QP
5	350.9721	-8.41	42.63	34.22	46.00	-11.78	QP
6	452.0011	-5.85	42.62	36.77	46.00	-9.23	QP

Measurement Level = Reading Level + Factor

Factor= Ant Factor + Cable Loss - Pre-amplifier

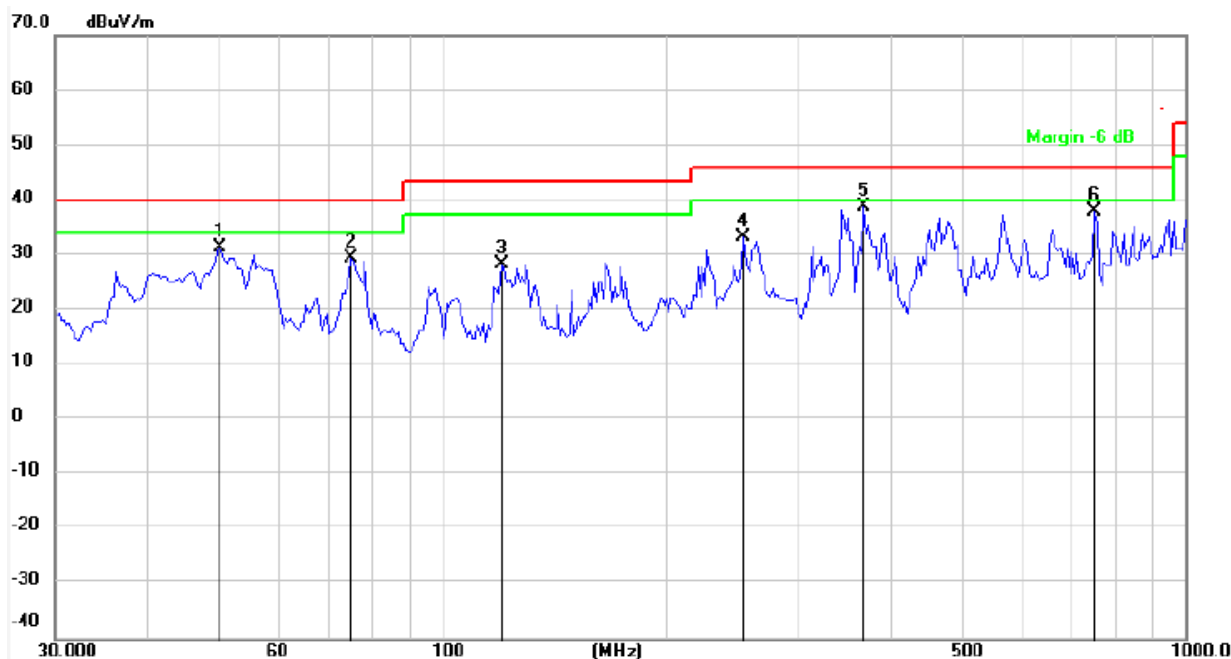
Test at Channel 00 (2.402 GHz) in transmitting status

30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

Horizontal:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

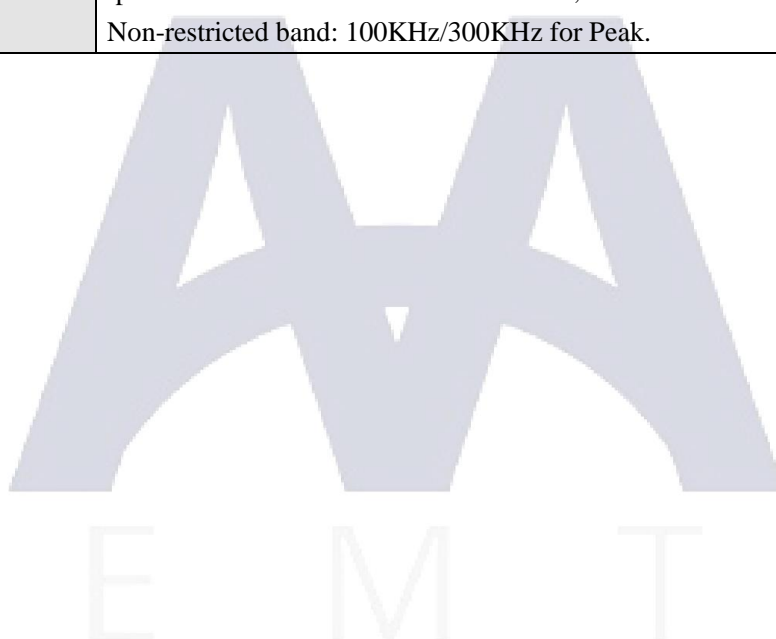
No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	50.1079	-9.89	41.26	31.37	40.00	-8.63	QP
2	75.3208	-15.25	44.69	29.44	40.00	-10.56	QP
3	119.7672	-12.88	41.33	28.45	43.50	-15.05	QP
4	254.0312	-8.97	42.19	33.22	46.00	-12.78	QP
5	368.6681	-5.92	44.61	38.69	46.00	-7.31	QP
6	754.9627	0.41	37.43	37.84	46.00	-8.16	QP

Measurement Level = Reading Level + Factor

Factor= Ant Factor + Cable Loss - Pre-amplifier

Radiated Emissions Test Data Above 1GHz

EUT:	Driveri	Model Name. :	D-810
Temperature:	25.4 °C	Relative Humidity:	53%
Pressure:	1010hPa	Test Date :	2025-04-28
Test Mode :	TX (1Mbps) CH00 (2402MHz)	Test Voltage :	110V AC, 60Hz
Measurement Distance	3 m	Frequency Range	1GHz to 25GHz
RBW/VBW	Spurious emission: 1MHz/1MHz for Peak, 1MHz/10Hz for Average. Non-restricted band: 100KHz/300KHz for Peak.		



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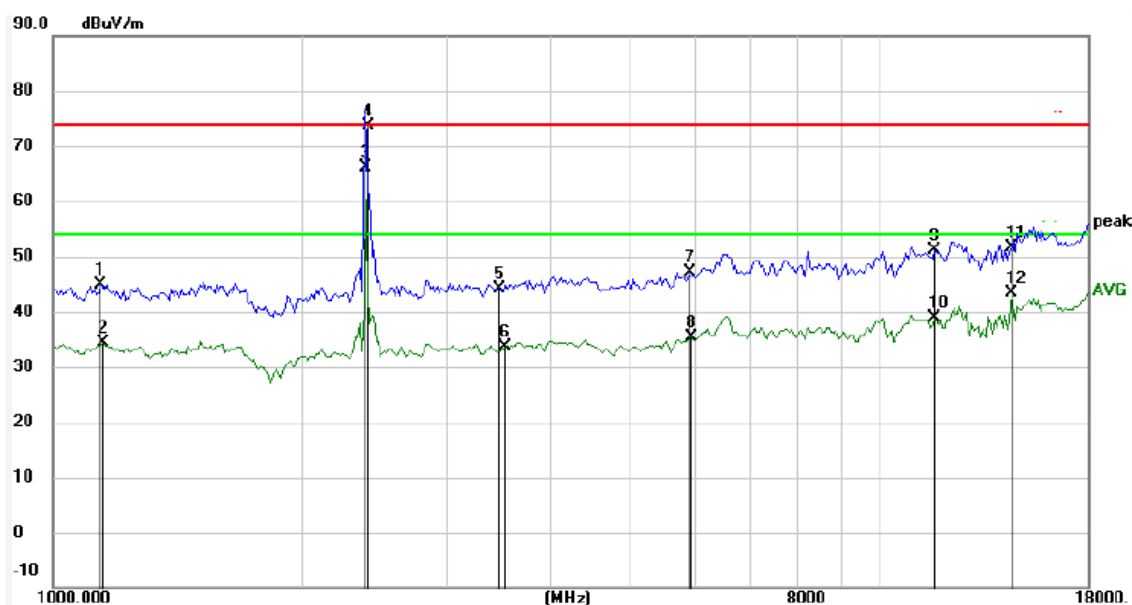
Test at Channel 00 (2.402 GHz) in transmitting status (Worst Case)

1000 MHz~18000 MHz Spurious Emissions .

Vertical:

Peak scan

Level (dBμV/m)



No.	Frequency (MHz)	Factor (dBμV/m)	Reading (dBμV)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1142.505	-4.40	49.32	44.92	74.00	-29.08	peak
2	1149.142	-4.38	38.73	34.35	54.00	-19.65	AVG
3	2398.015	-2.77	68.90	66.13	54.00	12.13	AVG
4	2402.000	-2.76	76.51	73.75	74.00	-0.25	peak
5	3474.152	-1.17	45.27	44.10	74.00	-29.90	peak
6	3535.050	-1.07	34.66	33.59	54.00	-20.41	AVG
7	5919.457	1.95	45.30	47.25	74.00	-26.75	peak
8	5953.844	1.98	33.39	35.37	54.00	-18.63	AVG
9	11725.189	8.46	42.57	51.03	74.00	-22.97	peak
10	11725.189	8.46	30.44	38.90	54.00	-15.10	AVG
11	14527.677	9.79	41.89	51.68	74.00	-22.32	peak
12	14527.677	9.79	33.48	43.27	54.00	-10.73	AVG

Measurement Level = Reading Level + Factor

Factor= Ant Factor + Cable Loss - Pre-amplifier

Note: Marker 3 & 4 is the intentional frequency from EUT, Hence considered as pass.

Report No.: AAEMT/RF/250402-01-02

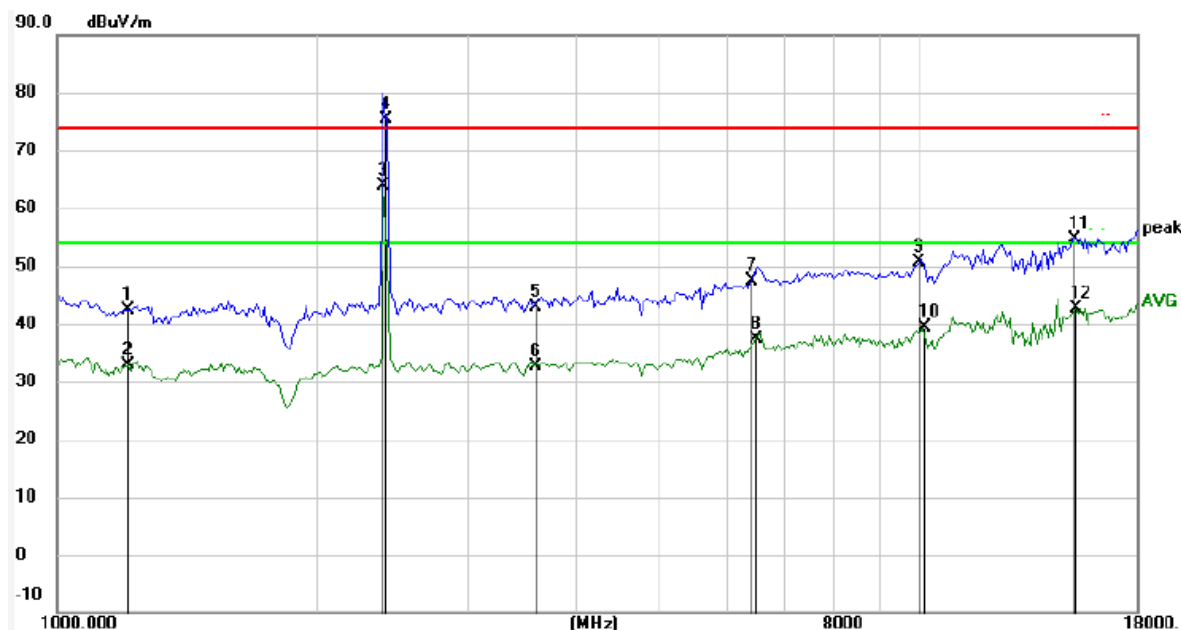
Test at Channel 00 (2.402 GHz) in transmitting status

1000 MHz~18000 MHz Spurious Emissions .

Horizontal:

Peak scan

Level (dBμV/m)



No.	Frequency (MHz)	Factor (dBμV/m)	Reading (dBμV)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1210.637	21.59	20.73	42.32	74.00	-31.68	peak
2	1210.637	21.59	11.28	32.87	54.00	-21.13	AVG
3	2398.015	24.68	39.16	63.84	54.00	9.84	AVG
4	2402.000	24.71	50.73	75.44	74.00	1.44	peak
5	3576.241	29.04	13.82	42.86	74.00	-31.14	peak
6	3576.241	29.04	3.70	32.74	54.00	-21.26	AVG
7	6419.481	40.87	6.42	47.29	74.00	-26.71	peak
8	6494.281	43.53	-6.05	37.48	54.00	-16.52	AVG
9	10027.653	43.44	7.09	50.53	74.00	-23.47	peak
10	10144.496	43.52	-4.03	39.49	54.00	-14.51	AVG
11	15128.826	49.19	5.48	54.67	74.00	-19.33	peak
12	15305.107	48.93	-6.21	42.72	54.00	-11.28	AVG

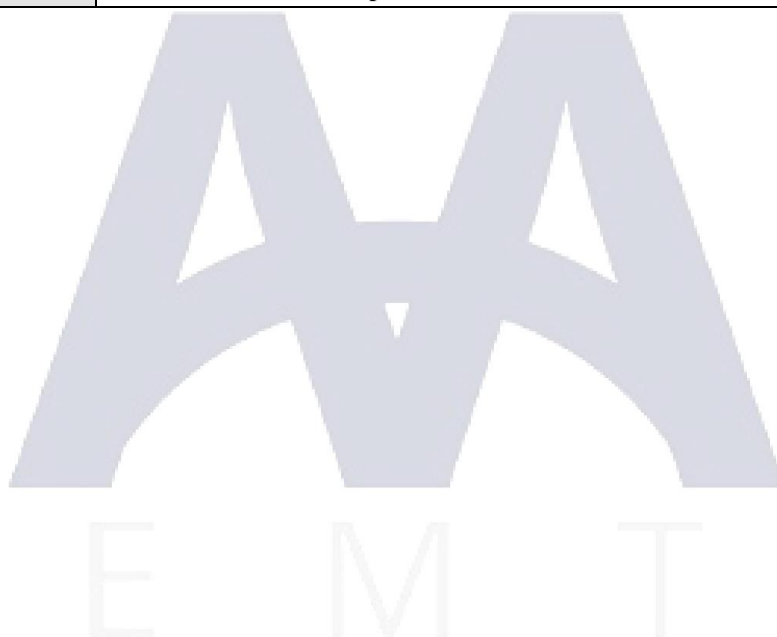
Measurement Level = Reading Level + Factor

Factor= Ant Factor + Cable Loss - Pre-amplifier

Note: Marker 3 & 4 is the intentional frequency from EUT, Hence considered as pass.

Radiated Emissions Test Data Below 1GHz

EUT:	Driveri	Model Name. :	D-810
Temperature:	25.4 °C	Relative Humidity:	53%
Pressure:	1010hPa	Test Date :	2024-09-24
Test Mode :	TX (1Mbps) CH78 (2480MHz)	Test Voltage :	110V AC, 60Hz
Measurement Distance	3 m	Frequency Range	30MHz to 1GHz
RBW/VBW	100KHz / 300KHz for spectrum, RBW=120KHz for receiver.		



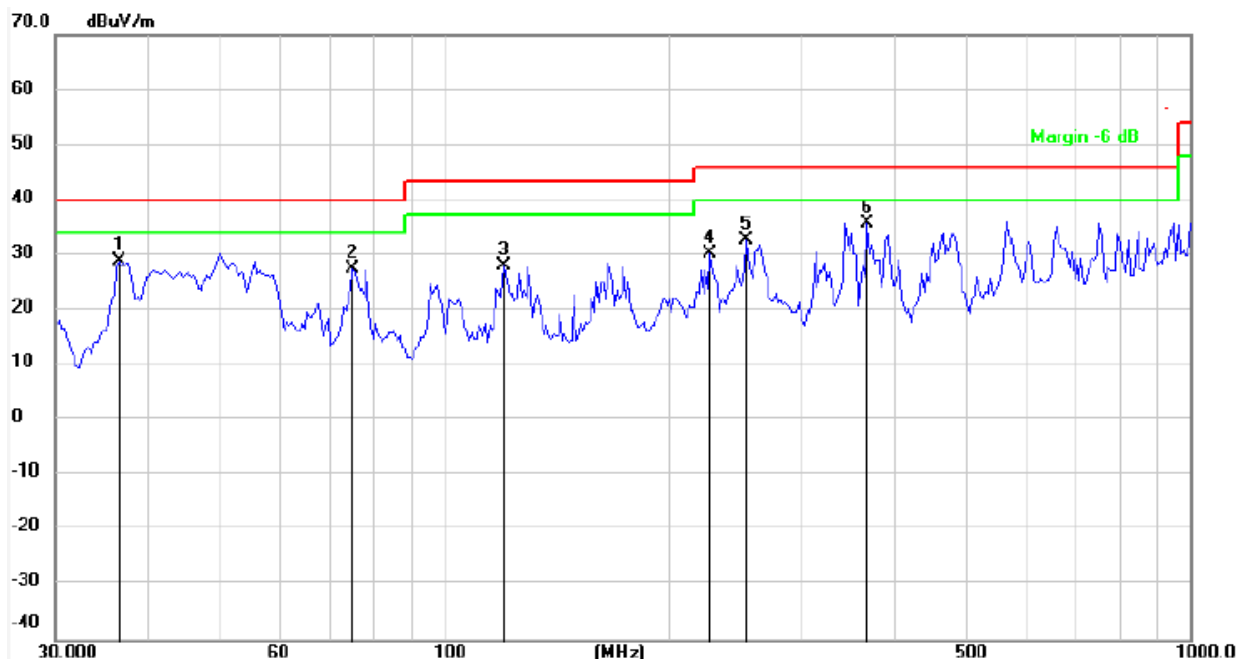
Test at Channel 78 (2.480 GHz) in transmitting status

30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

Vertical:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

No.	Frequency (MHz)	Factor (dBμV/m)	Reading (dBμV)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	36.5234	-18.56	47.38	28.82	40.00	-11.18	QP
2	75.3208	-15.25	42.69	27.44	40.00	-12.56	QP
3	119.7672	-12.88	40.83	27.95	43.50	-15.55	QP
4	227.0164	-10.15	40.50	30.35	46.00	-15.65	QP
5	254.0312	-8.97	41.69	32.72	46.00	-13.28	QP
6	368.6681	-5.92	41.61	35.69	46.00	-10.31	QP

Measurement Level = Reading Level + Factor

Factor= Ant Factor + Cable Loss - Pre-amplifier

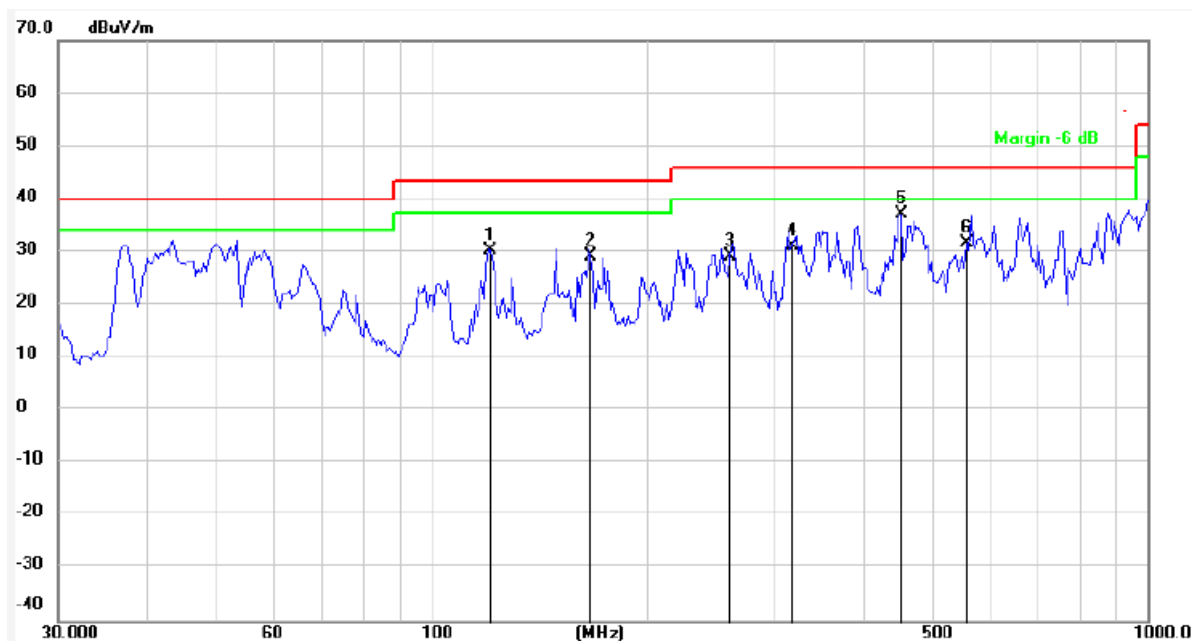
Test at Channel 78 (2.480 GHz) in transmitting status

30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

Horizontal:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

No.	Frequency (MHz)	Factor (dBμV/m)	Reading (dBμV)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	120.6115	-14.99	45.33	30.34	43.50	-13.16	QP
2	166.6382	-15.39	44.59	29.20	43.50	-14.30	QP
3	261.2727	-10.78	39.92	29.14	46.00	-16.86	QP
4	318.0874	-9.27	40.25	30.98	46.00	-15.02	QP
5	452.0011	-5.85	43.12	37.27	46.00	-8.73	QP
6	558.0787	-4.59	36.15	31.56	46.00	-14.44	QP

Measurement Level = Reading Level + Factor

Factor= Ant Factor + Cable Loss - Pre-amplifier

Radiated Emissions Test Data Above 1GHz

EUT:	Driveri	Model Name. :	D-810
Temperature:	25.4 °C	Relative Humidity:	53%
Pressure:	1010hPa	Test Date :	2024-09-24
Test Mode :	TX (1Mbps) CH78 (2480MHz)	Test Voltage :	110V AC, 60Hz
Measurement Distance	3 m	Frequency Range	1GHz to 25GHz
RBW/VBW	Spurious emission: 1MHz/1MHz for Peak, 1MHz/10Hz for Average. Non-restricted band: 100KHz/300KHz for Peak.		

Report No.: AAEMT/RF/250402-01-02

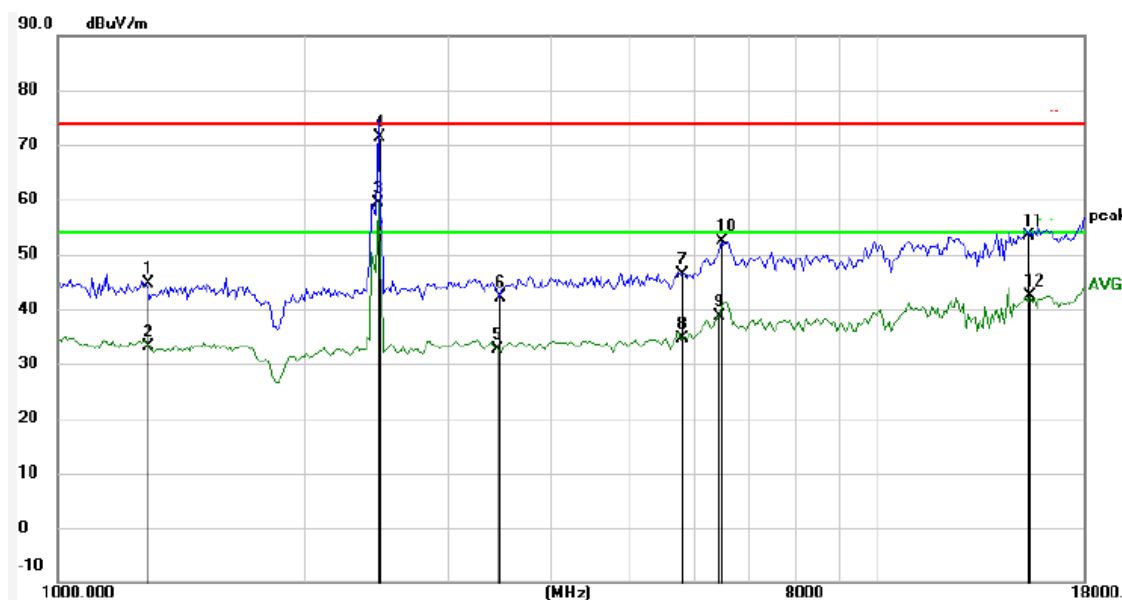
Test at Channel 78 (2.480 GHz) in transmitting status

1000 MHz~18000 MHz Spurious Emissions .

Vertical:

Peak scan

Level (dBμV/m)



No.	Frequency (MHz)	Factor (dBμV/m)	Reading (dBμV)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1282.832	-4.27	48.79	44.52	74.00	-29.48	peak
2	1290.284	-4.27	37.48	33.21	54.00	-20.79	AVG
3	2468.481	-2.70	62.05	59.35	54.00	5.35	AVG
4	2480.000	-2.69	74.04	71.35	74.00	-2.65	peak
5	3454.087	-1.21	33.81	32.60	54.00	-21.40	AVG
6	3474.152	-1.17	43.41	42.24	74.00	-31.76	peak
7	5817.483	1.84	44.44	46.28	74.00	-27.72	peak
8	5817.483	1.84	32.72	34.56	54.00	-19.44	AVG
9	6456.773	7.34	31.25	38.59	54.00	-15.41	AVG
10	6494.281	8.59	43.82	52.41	74.00	-21.59	peak
11	15394.016	9.97	43.44	53.41	74.00	-20.59	peak
12	15483.442	9.99	32.39	42.38	54.00	-11.62	AVG

Measurement Level = Reading Level + Factor

Factor= Ant Factor + Cable Loss - Pre-amplifier

Note: Marker 3 & 4 is the intentional frequency from EUT, Hence considered as pass.

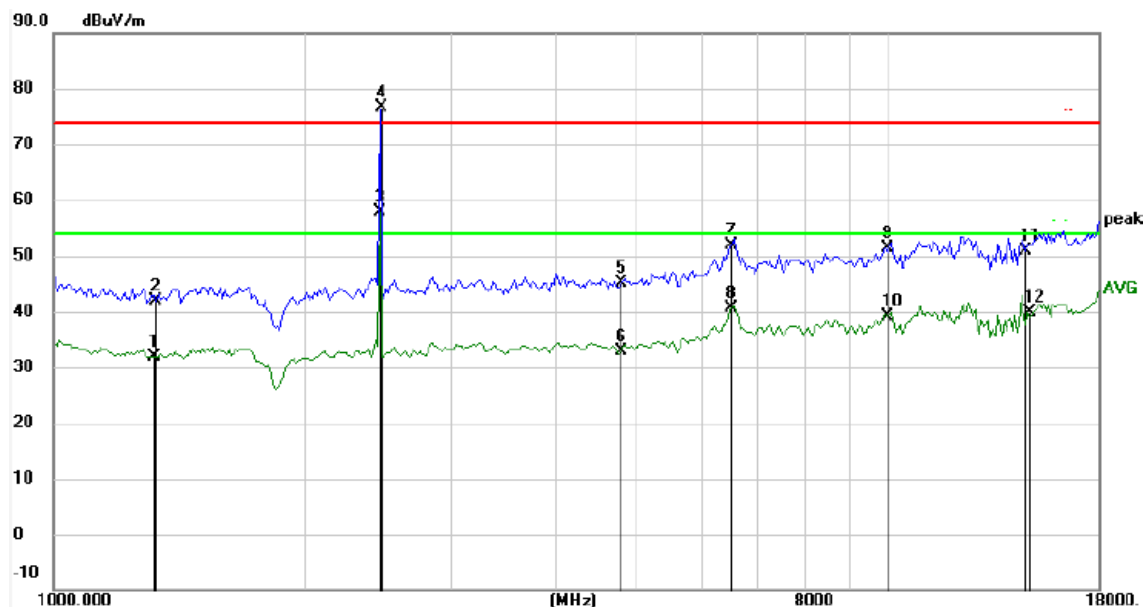
Test at Channel 78 (2.480 GHz) in transmitting status

1000 MHz~18000 MHz Spurious Emissions .

Horizontal:

Peak scan

Level (dBμV/m)



No.	Frequency (MHz)	Factor (dBμV/m)	Reading (dBμV)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1320.528	21.61	10.33	31.94	54.00	-22.06	AVG
2	1328.199	21.62	20.27	41.89	74.00	-32.11	peak
3	2468.481	24.96	32.84	57.80	54.00	3.80	AVG
4	2480.000	25.00	51.66	76.66	74.00	2.66	peak
5	4805.307	32.77	12.28	45.05	74.00	-28.95	peak
6	4805.307	32.77	0.10	32.87	54.00	-21.13	AVG
7	6532.007	29.99	21.85	51.84	74.00	-22.16	peak
8	6532.007	29.99	10.59	40.58	54.00	-13.42	AVG
9	9969.738	43.26	8.20	51.46	74.00	-22.54	peak
10	10027.653	43.44	-4.43	39.01	54.00	-14.99	AVG
11	14696.954	49.47	1.35	50.82	74.00	-23.18	peak
12	14782.331	49.45	-9.53	39.92	54.00	-14.08	AVG

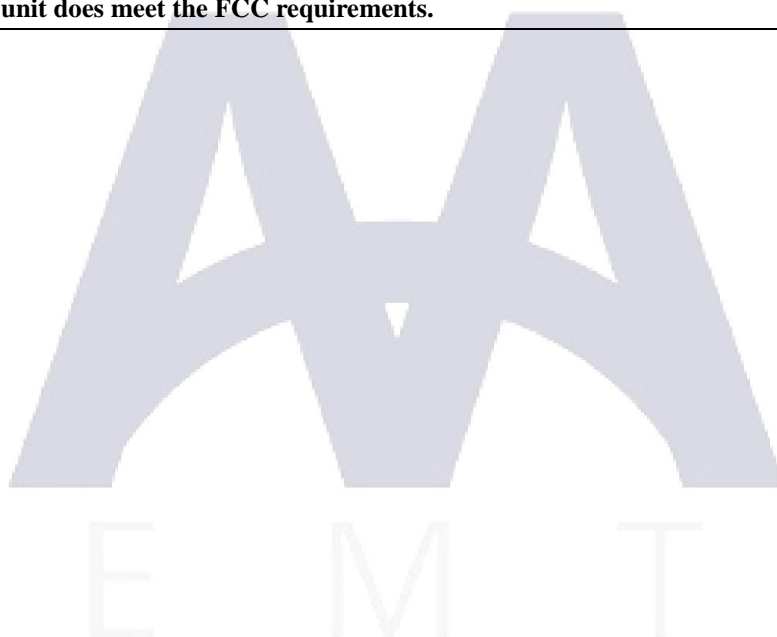
Measurement Level = Reading Level + Factor

Factor= Ant Factor + Cable Loss - Pre-amplifier

Note: Marker 3 & 4 is the intentional frequency from EUT, Hence considered as pass.

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Remark:
1) .For this intentional radiator operates below 25 GHz. The spectrum shall be investigated to the tenth Harmonics of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 3 rd harmonic.
2). As shown in Section, for frequencies above 1000 MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
3). The test only perform the EUT in transmitting status since the test frequencies were over 1GHz only required transmitting status.
Test result: The unit does meet the FCC requirements.



6.3.5 TEST RESULTS (Restricted Bands Requirements)

EUT:	Driveri	Model Name. :	D-810
Temperature:	25.4 °C	Relative Humidity:	53%
Pressure:	1010hPa	Test Date :	2025-04-02
Test Mode :	TX (1Mbps,2Mbps)	Test Voltage :	110V AC, 60Hz
Note:	1. The transmitter was setup to transmit at the lowest channel. Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was setup to transmit at the highest channel. Then the field strength was measured at 2483.5-2500 MHz. 3. The data of 2390MHz and 2483.5MHz was the worst.		

Test Mode	Ant.Pol. H/V	Freq. (MHz)	Reading		Ant/CF CF(dB)	Act		Limit	
			Peak (dBuv)	AV (dBuv)		Peak (dBuv/m)	AV (dBuv/m)	Peak (dBuv/m)	AV (dBuv/m)
Data rate 1Mbps	V	2390	42.98	31.98	-5.79	37.19	26.19	74	54
	H	2390	42.83	34.62	-5.79	37.04	28.83	74	54
	V	2483.5	44.26	33.31	-4.98	39.28	28.33	74	54
	H	2483.5	44.06	34.33	-4.98	39.08	29.35	74	54
Data rate 2Mbps	V	2390	-0.91	-0.70	-5.79	-6.70	-6.49	74	54
	H	2390	-0.28	0.52	-5.79	-6.07	-5.27	74	54
	V	2483.5	-0.56	0.19	-4.98	-5.54	-4.79	74	54
	H	2483.5	0.59	0.11	-4.98	-4.39	-4.87	74	54

Remark:

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode.
- (2) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (3) Corr.Factor = Antenna Factor + Cable Loss – Pre-amplifier.

6.4 BANDWIDTH TEST

6.4.1 Applied procedures / Limit

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dB bandwidth of hopping channel shall be a minimum limit for the hopping channel separation.

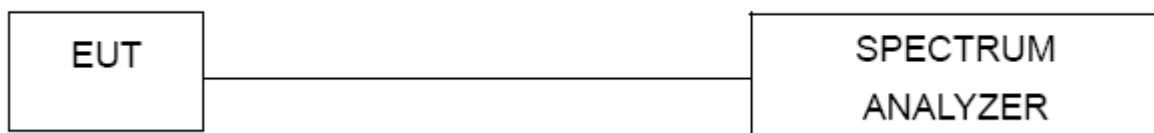
6.4.2 Test procedure

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
RBW \geq 1% of the 20 dB bandwidth, VBW \geq RBW, Sweep = auto, Detector function = peak
Trace = max hold

6.4.3 Deviation from standard

No deviation.

6.4.4 Test setup



6.4.5 Test results

EUT:	Driveri	Model Name. :	D-810
Temperature:	25.3 °C	Relative Humidity:	56%
Pressure:	1010 hPa	Test Power :	110V AC, 60Hz
Test Mode :	TX 1Mbps/ 2Mbps		

Channel		Channel frequency (MHz)	20dB bandwidth (KHz)	Limit (MHz)	Conclusion
1Mbps	Low	2402	886	N/A	Pass
	Middle	2441	886	N/A	Pass
	High	2480	886	N/A	Pass
2Mbps	Low	2402	1250	N/A	Pass
	Middle	2441	1232	N/A	Pass
	High	2480	1232	N/A	Pass
3Mbps	Low	2402	1220	N/A	Pass
	Middle	2441	1218	N/A	Pass
	High	2480	1220	N/A	Pass

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CH00-1Mbps

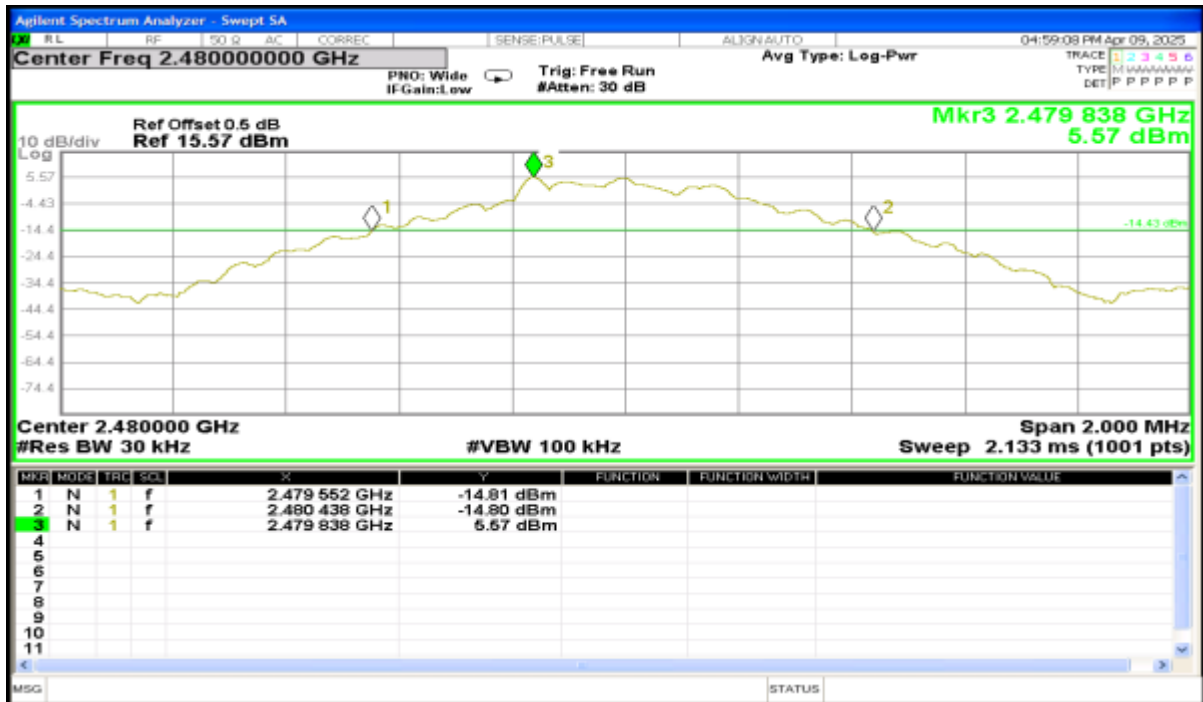


CH 39-1Mbps

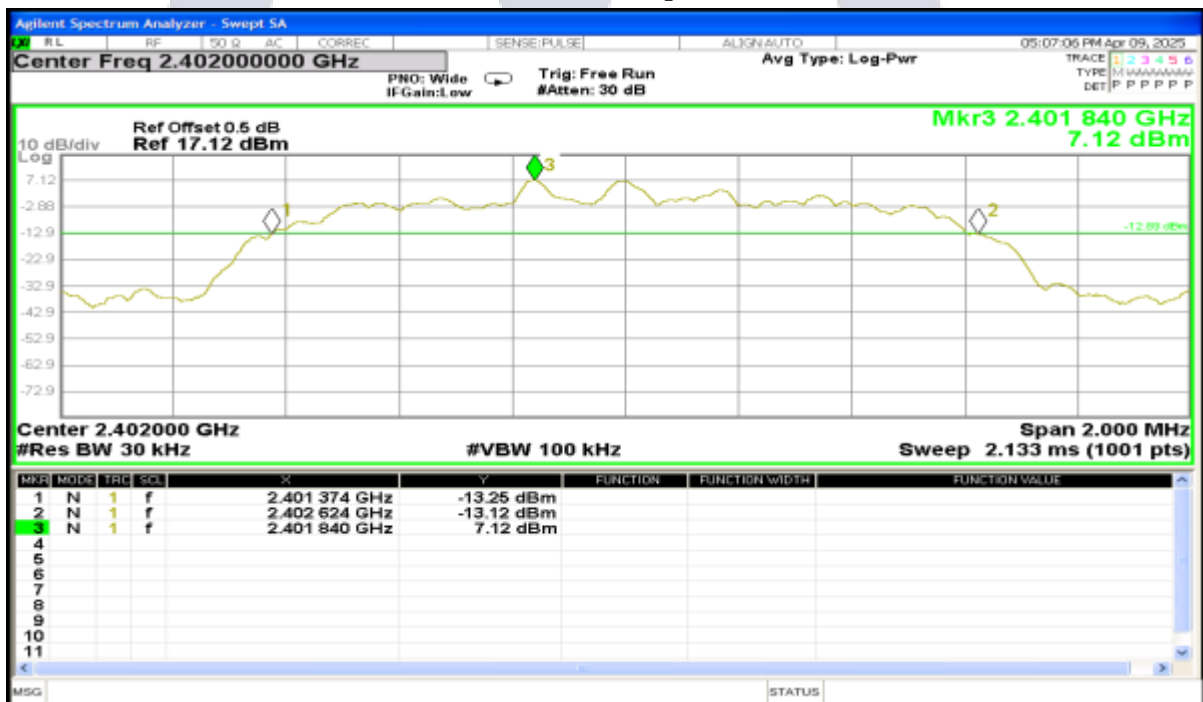


Report No.: AAEMT/RF/250402-01-02

CH 78-1Mbps

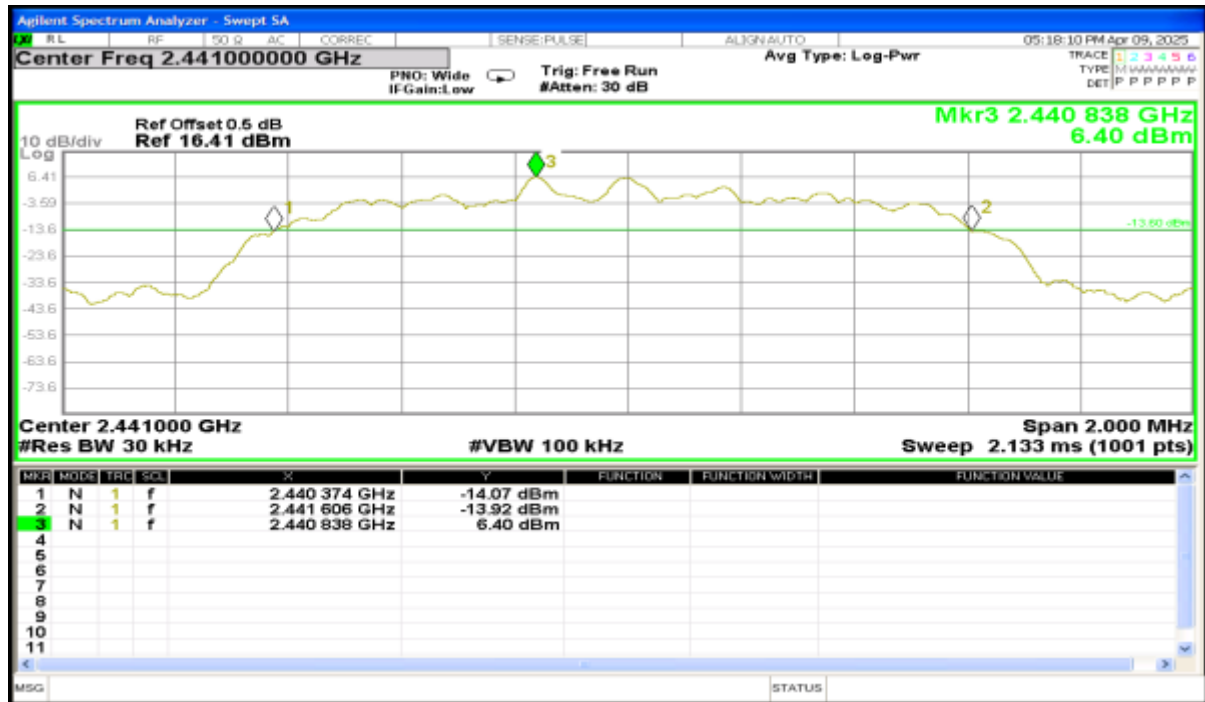


CH 00-2Mbps

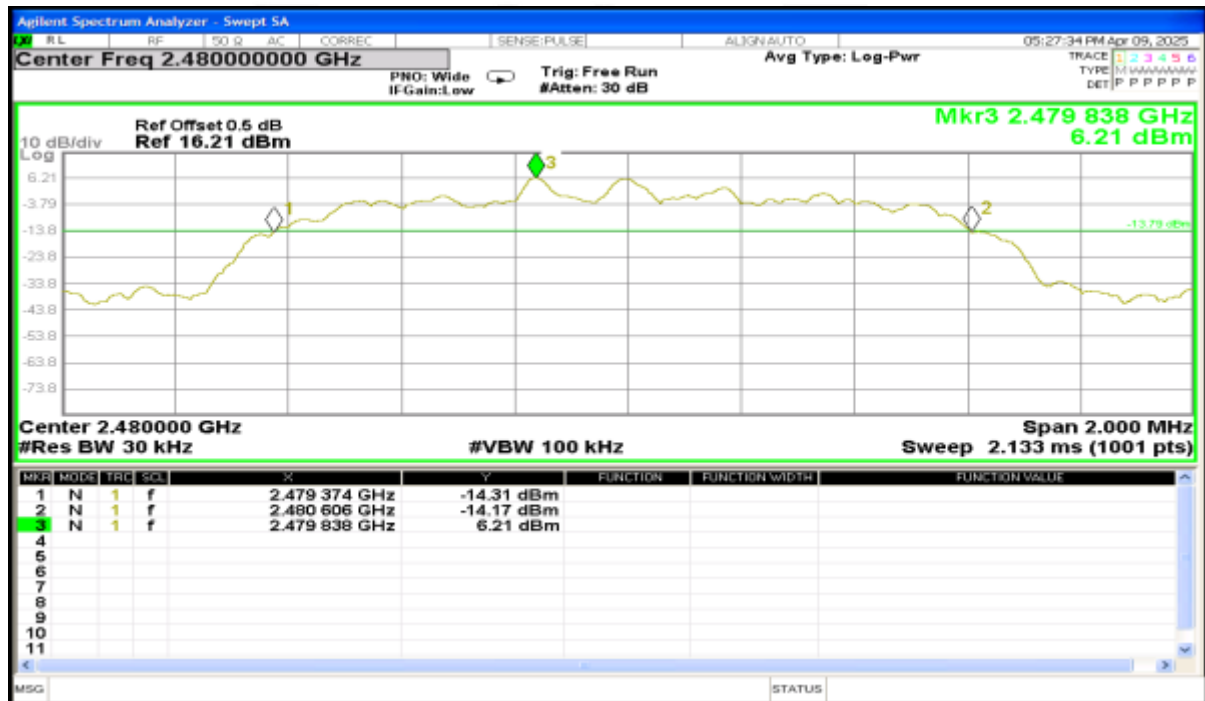


Report No.: AAEMT/RF/250402-01-02

CH 39-2Mbps

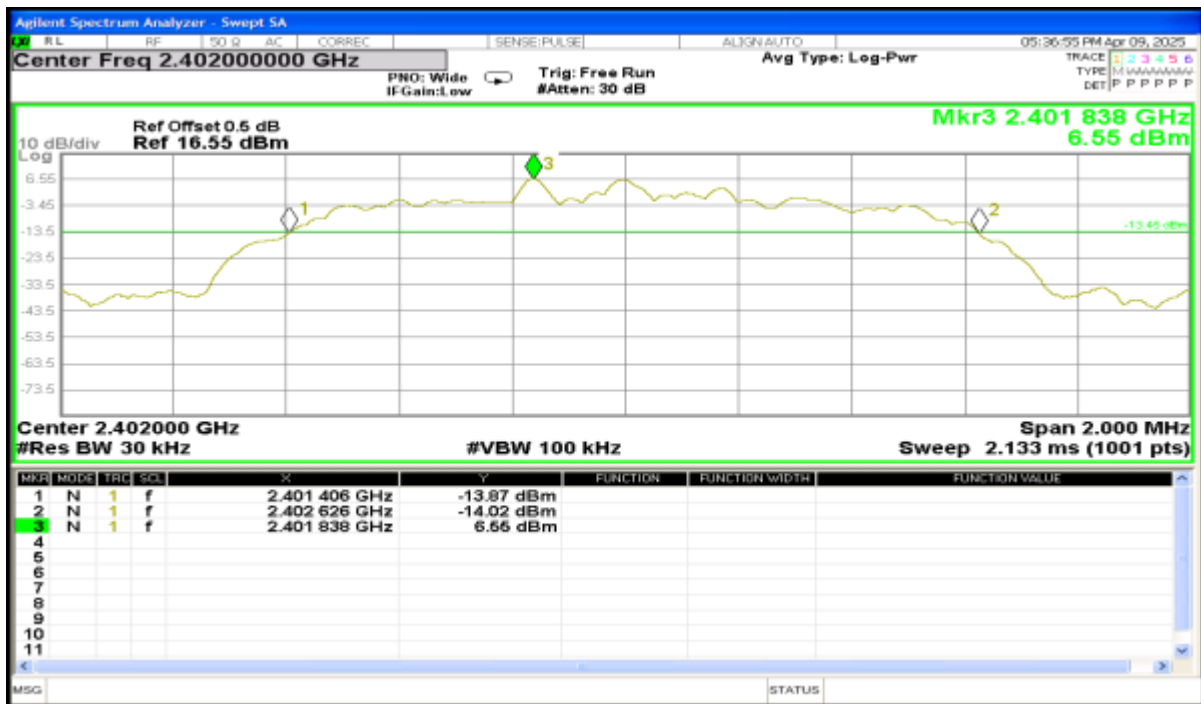


CH 78-2Mbps

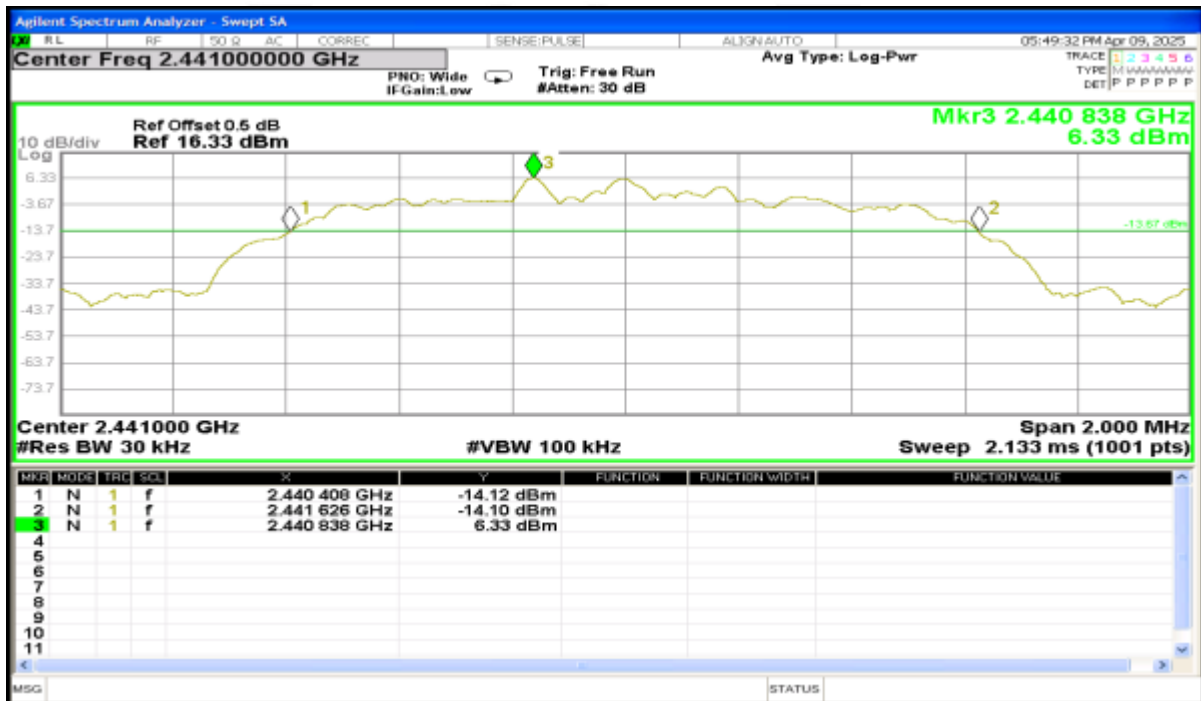


Report No.: AAEMT/RF/250402-01-02

CH00-3Mbps

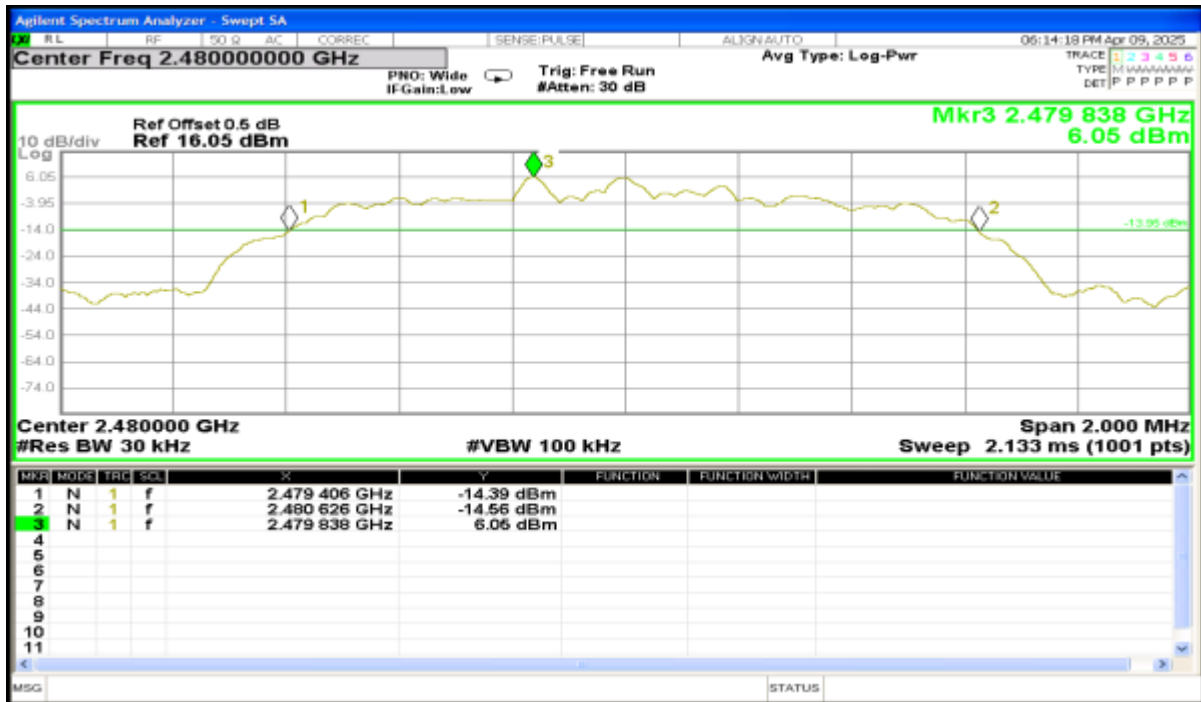


CH 39-3Mbps



Report No.: AAEMT/RF/250402-01-02

CH 78-3Mbps



6.5 Carrier Frequencies Separated

6.5.1 Applied procedures / Limit

15.247(a) (1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, 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, provided the systems operate with an output power no greater than 125 mW.

6.5.2 Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as
Span = wide enough to capture the peaks of two adjacent channels, Resolution (or IF)
Bandwidth (RBW) \geq 1% of the span, Video (or Average) Bandwidth (VBW) \geq RBW
Sweep = auto, Detector function = peak, Trace = max hold
- (2) The EUT should be transmitting at its maximum data rate. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.
- (3) The above procedure shall be repeated at the lowest, the middle, and the highest frequency of the stated frequency range with modulated mode. also shall be performed at different modes of operation.

6.5.3 Deviation from standard

No deviation.

6.5.4 Test setup



6.5.5 Test results

EUT:	Driveri	Model Name. :	D-810
Temperature:	25.6 °C	Relative Humidity:	56%
Pressure:	1010 hPa	Test Power :	110V AC, 60Hz
Test Mode :	TX 1Mbps/ 2Mbps/ 3Mbps		

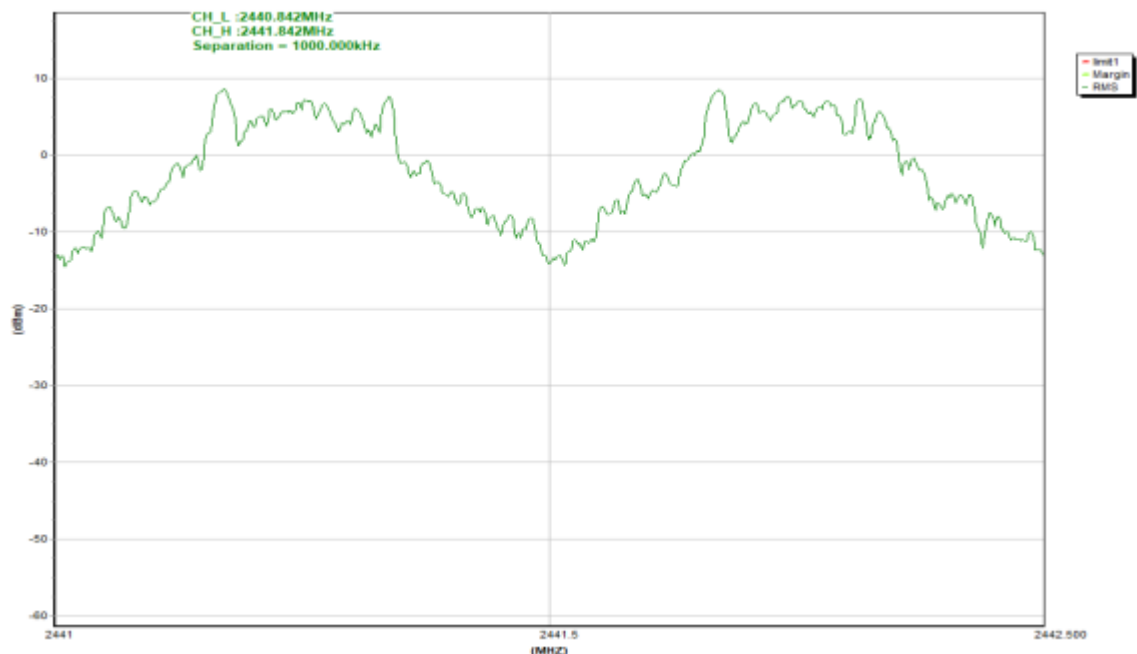
Channel		Channel frequency (MHz)	Channel Separation (MHz)	Conclusion
1Mbps	Low	2402	1.164	Pass
	Middle	2441	1.000	Pass
	Highest	2480	0.850	Pass
2Mbps	Low	2402	1.166	Pass
	Middle	2441	0.840	Pass
	Highest	2480	1.004	Pass
3Mbps	Low	2402	1.172	Pass
	Middle	2441	1.164	Pass
	Highest	2480	1.160	Pass

Ch. Separation >2/3(20dB bandwidth)

CH 00-1Mbps

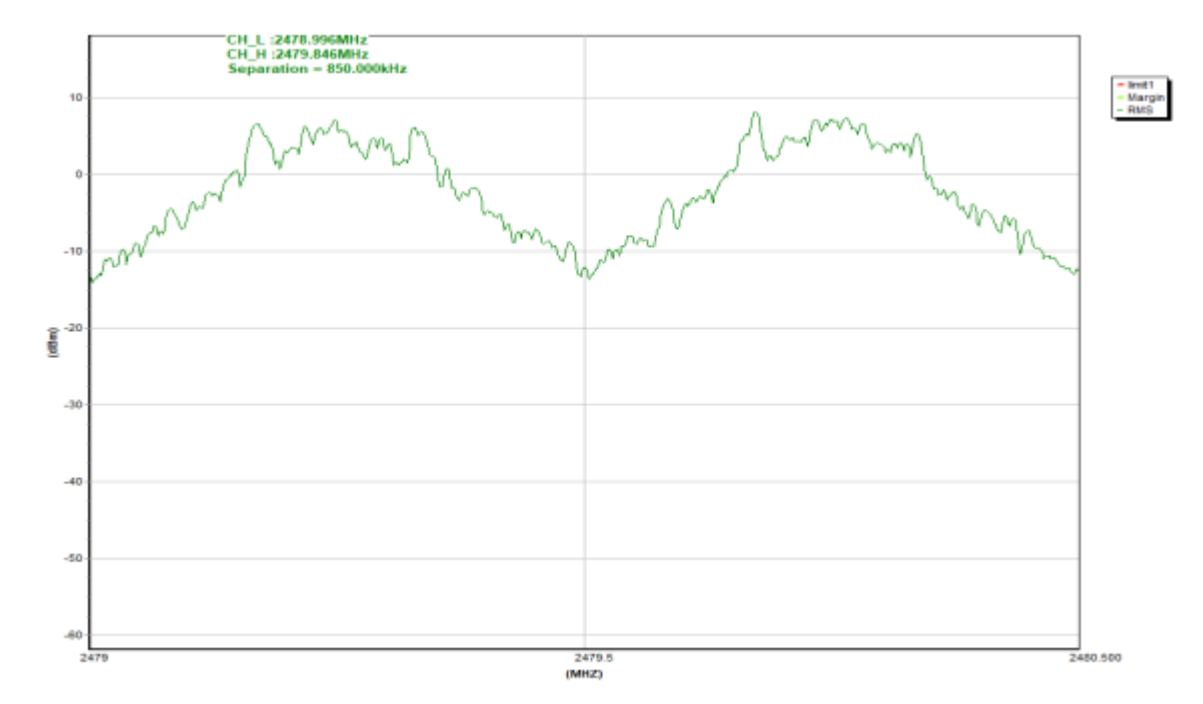


CH 39-1Mbps



Report No.: AAEMT/RF/250402-01-02

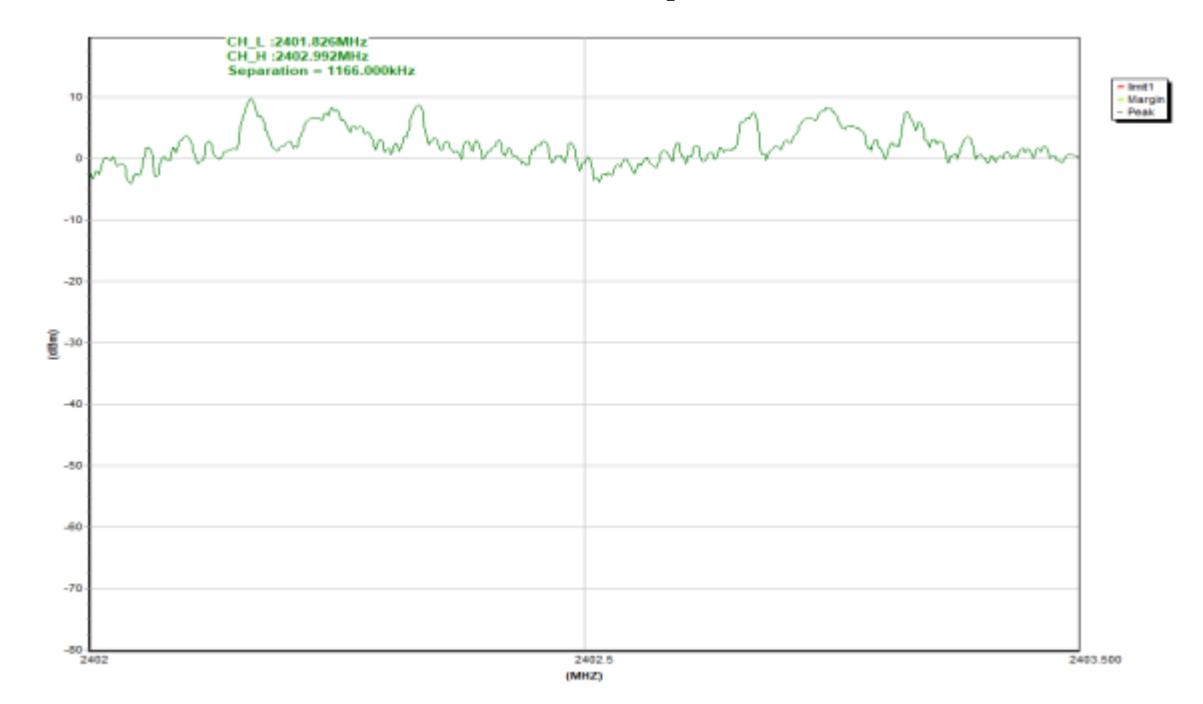
CH 78-1Mbps



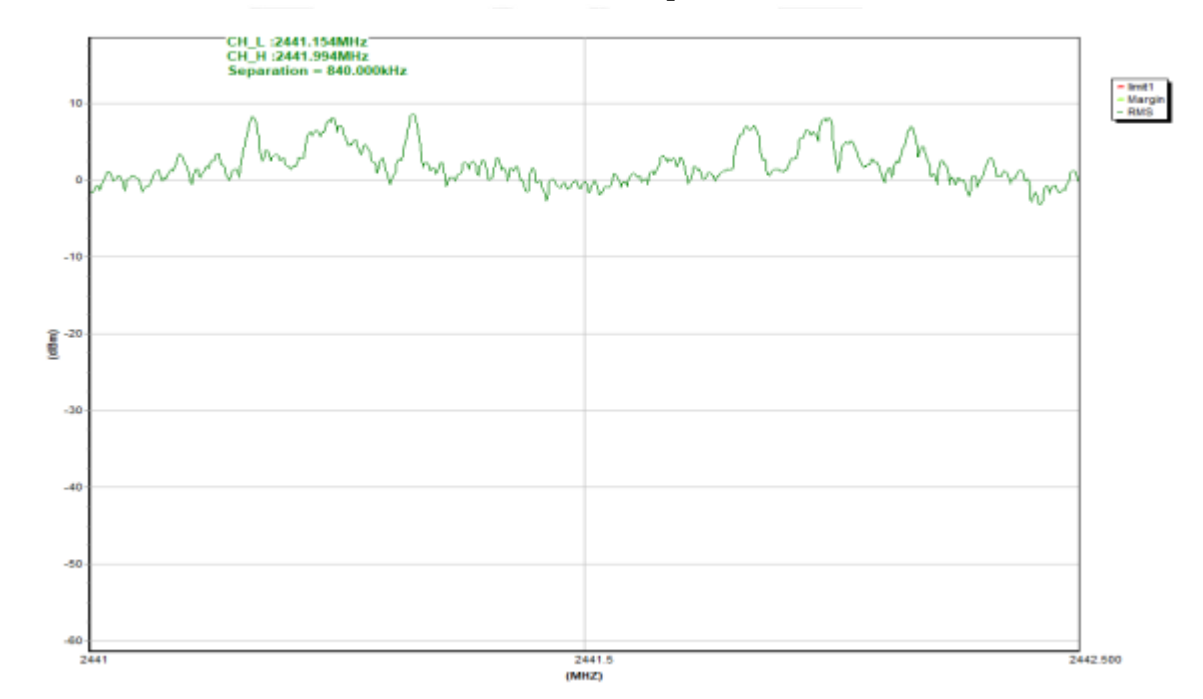
E M T

Report No.: AAEMT/RF/250402-01-02

CH 00-2Mbps

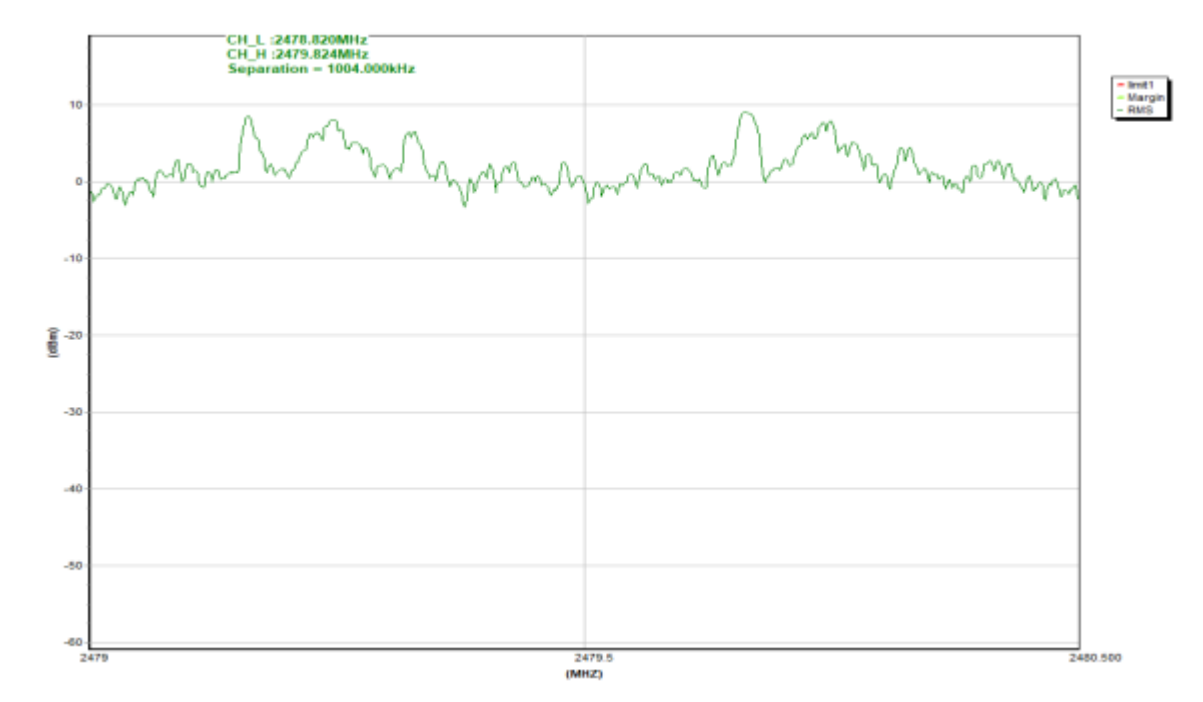


CH 39-2Mbps



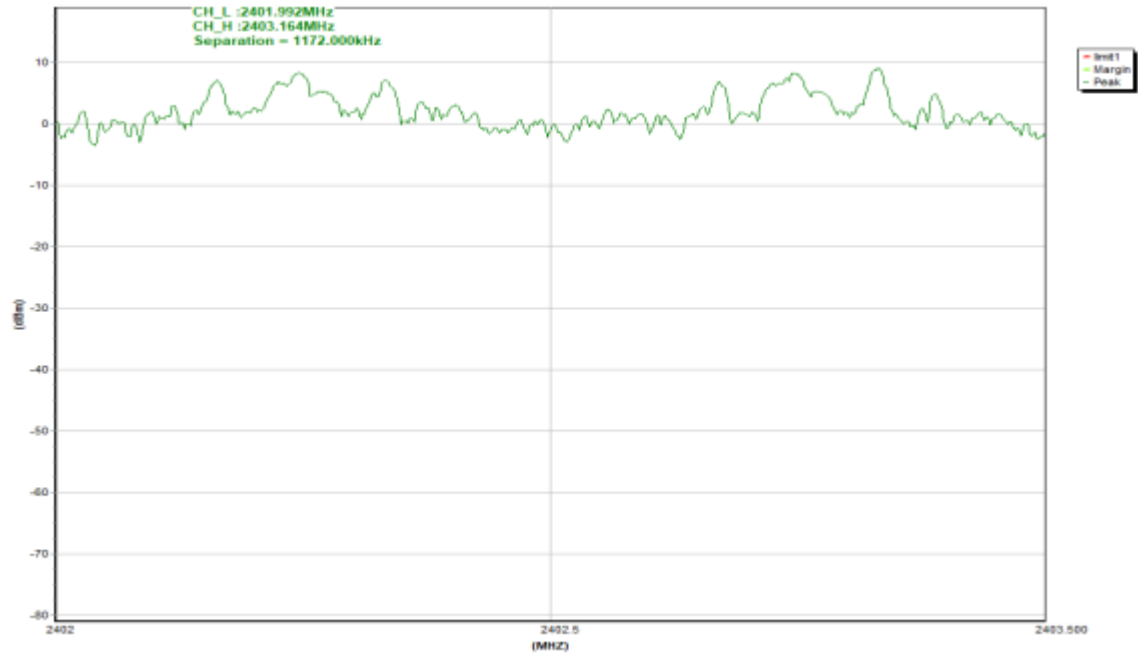
Report No.: AAEMT/RF/250402-01-02

CH 78-2Mbps

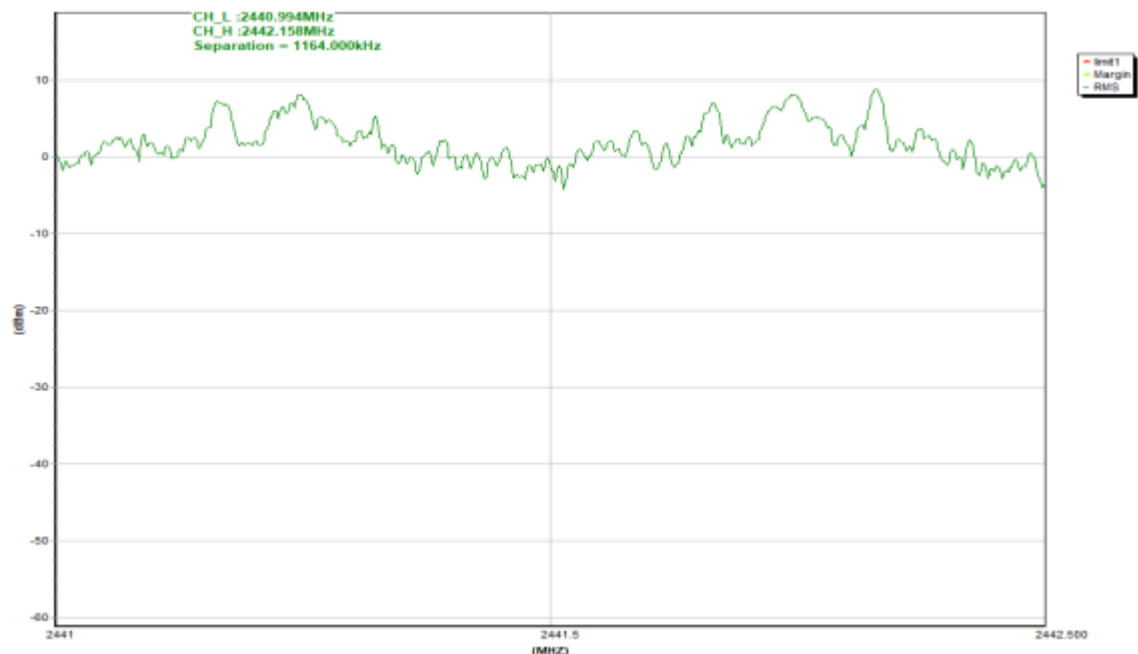


Report No.: AAEMT/RF/250402-01-02

CH 00-3Mbps

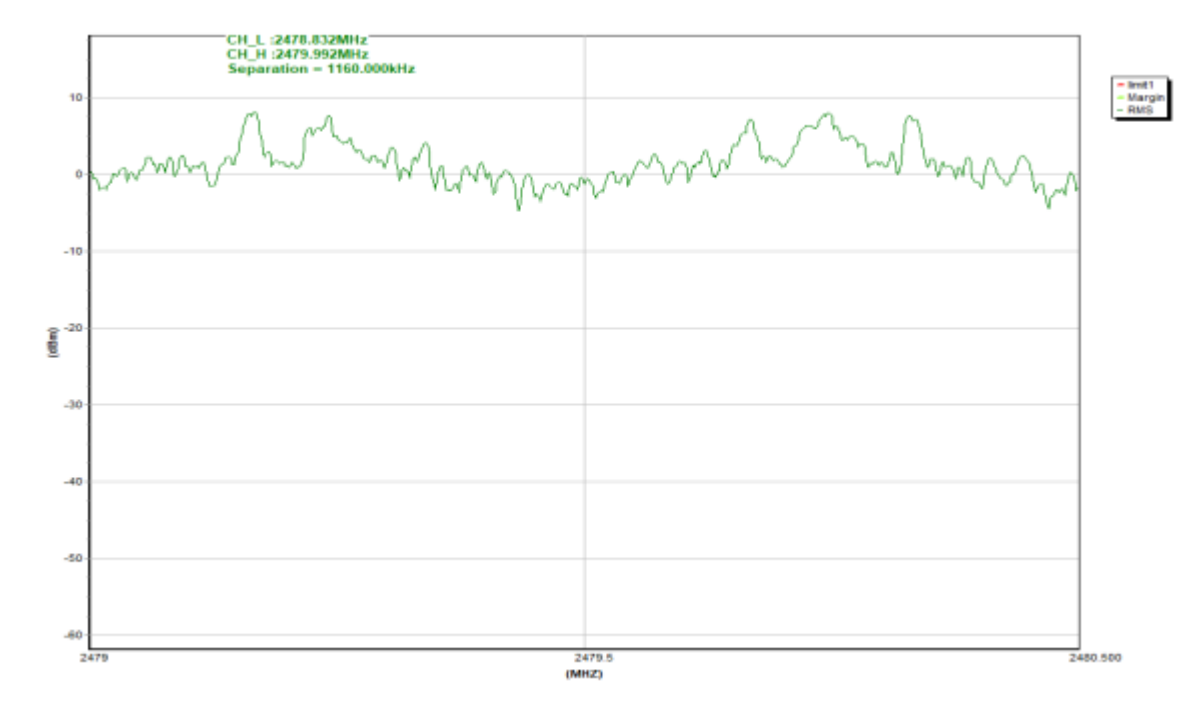


CH 39-3Mbps



Report No.: AAEMT/RF/250402-01-02

CH 78-3Mbps



E M T

6.6 Hopping Channel Number

6.6.1 Applied procedures / Limit

15.247(a) (1) (iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

6.6.2 Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer , set the Spectrum Analyzer as
Span = the frequency band of operation, RBW \geq 1% of the span, VBW \geq RBW Sweep = auto
Detector function = peak, Trace = max hold
- (2) The EUT should be have its hopping function enabled. Maxhold and record hopping channels It may prove necessary to break the span up to sections, in order to clearly show all of the hopping frequencies.

6.6.3 Deviation from standard

No deviation.

6.6.4 Test setup



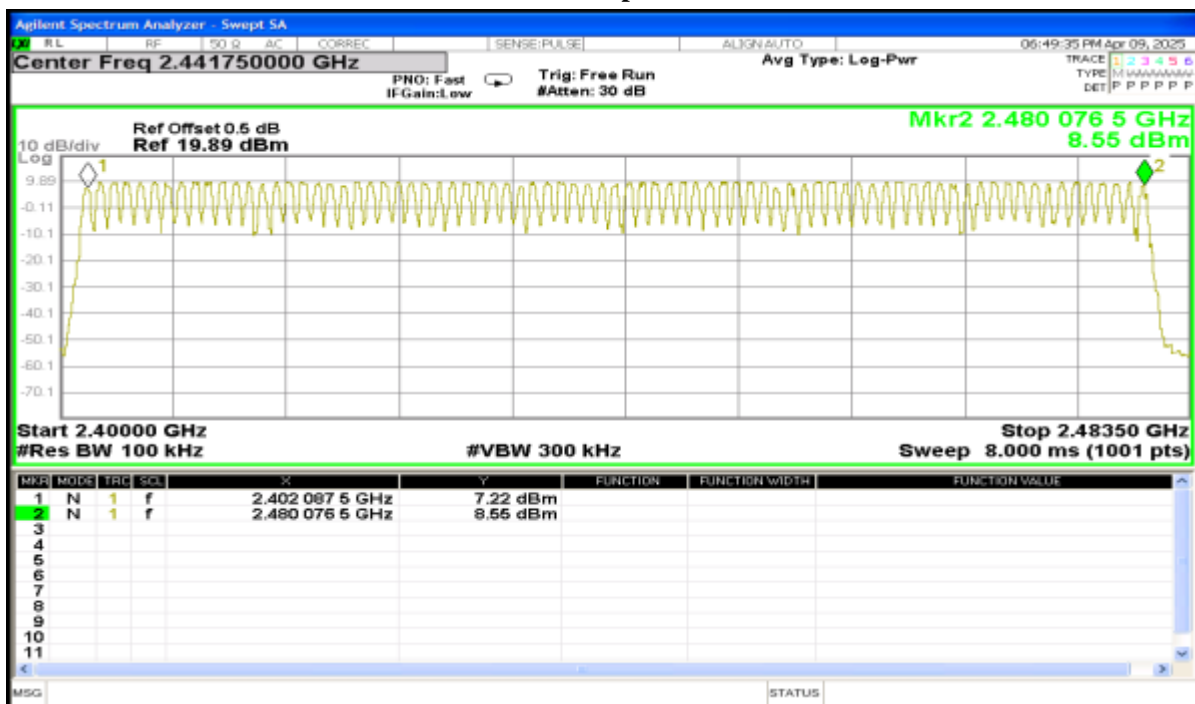
6.6.5 Test result

Hopping Channel Number result		
Operating Mode: 1Mbps/ 2Mbps/3Mbps Mode		Test date:2025-04-09
Result	Limit	Conclusion
79	>15	Pass

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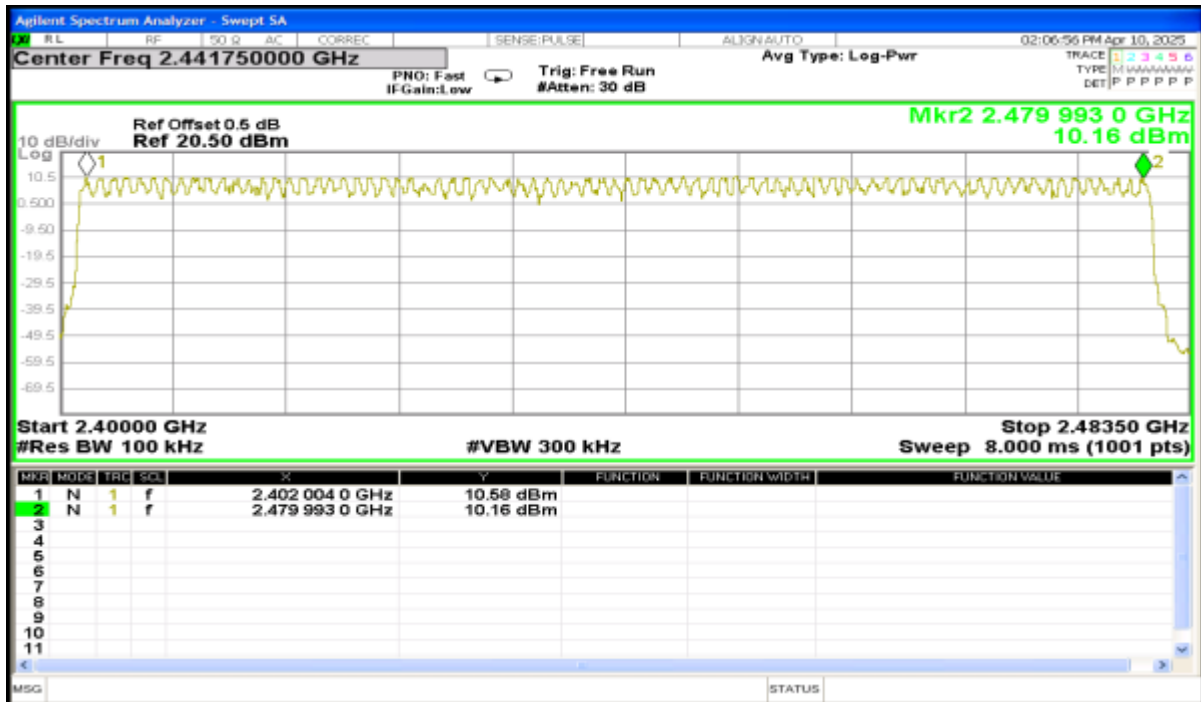
EUT:	Driveri	Model Name. :	D-810
Temperature:	25.4 °C	Relative Humidity:	55%
Pressure:	1010 hPa	Test Power :	110V AC, 60Hz
Test Mode :	TX 1Mbps/ 2Mbps/ 3Mbps		

1Mbps

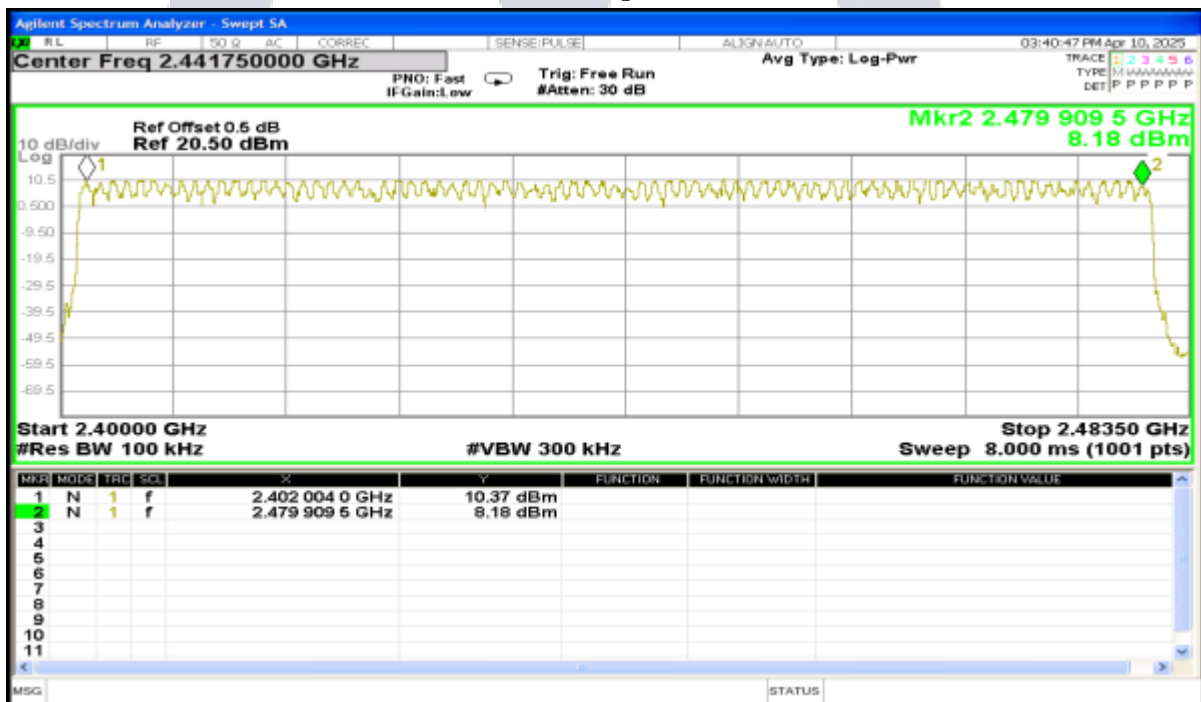


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2Mbps



3Mbps



6.7 Dwell time

6.7.1 Applied procedures / Limit

15.247(a) (1) (iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

6.7.2 Test procedure

- (1) Place the EUT on the table in the chamber or connect the antenna port of the EUT to spectrum analyzer and set it in transmitting mode.
- (2) Set RBW of spectrum analyzer to 1MHz, VBW \geq RBW
- (3) Use a video trigger with the trigger level set to enable triggering only on full pulses.
- (4) Sweep Time is more than once pulse time.
- (5) Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- (6) Measure the maximum time duration of one single pulse.
- (7) Set the EUT for DH5, DH3 and DH1 packet transmitting.
- (8) Measure the maximum time duration of one single pulse.
- (9) A Period Time = $79 \times 0.4 = 31.6$ S
 - DH1 Time Slot: Reading * $(1600/2) \times 31.6/79$
 - DH3 Time Slot: Reading * $(1600/4) \times 31.6/79$
 - DH5 Time Slot: Reading * $(1600/6) \times 31.6/79$

6.7.3 Deviation from standard

No deviation.

6.7.4 Test setup

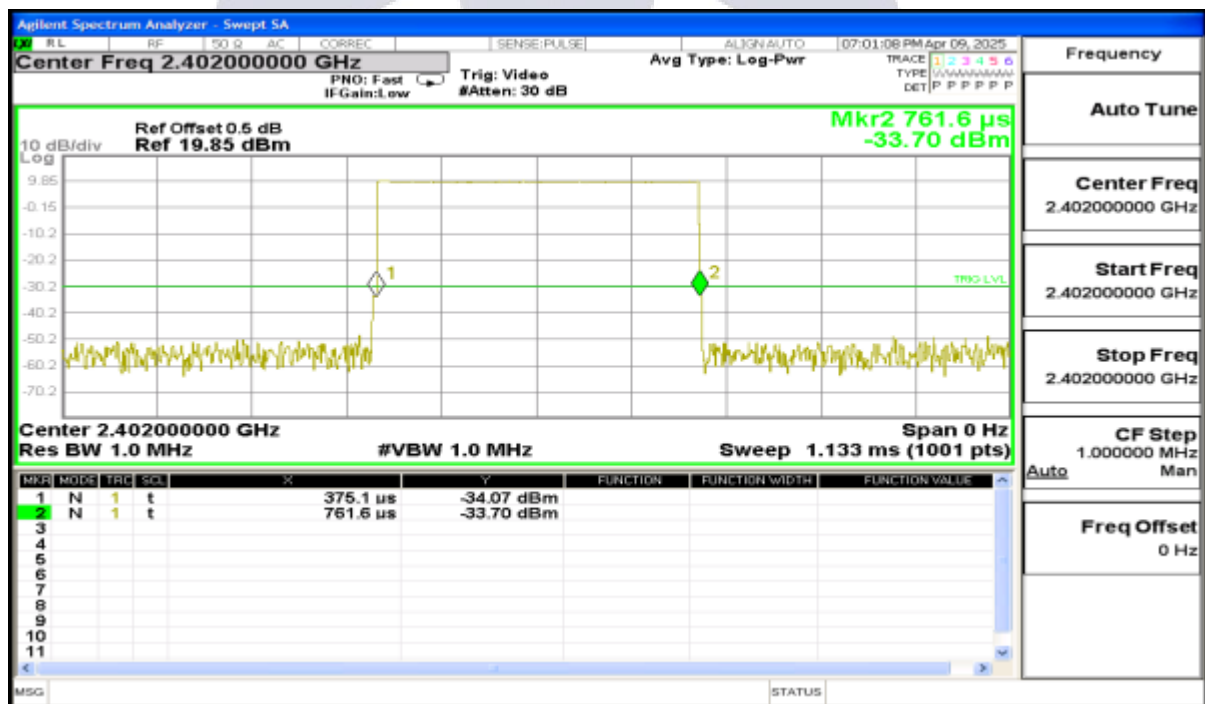


6.7.5 Test result

EUT:	Driveri	Model Name. :	D-810
Temperature:	25.4 °C	Relative Humidity:	55%
Pressure:	1010 hPa	Test Power :	110V AC, 60Hz
Test Mode :	CH00-DH1/DH3/DH5 (1Mbps Mode)		

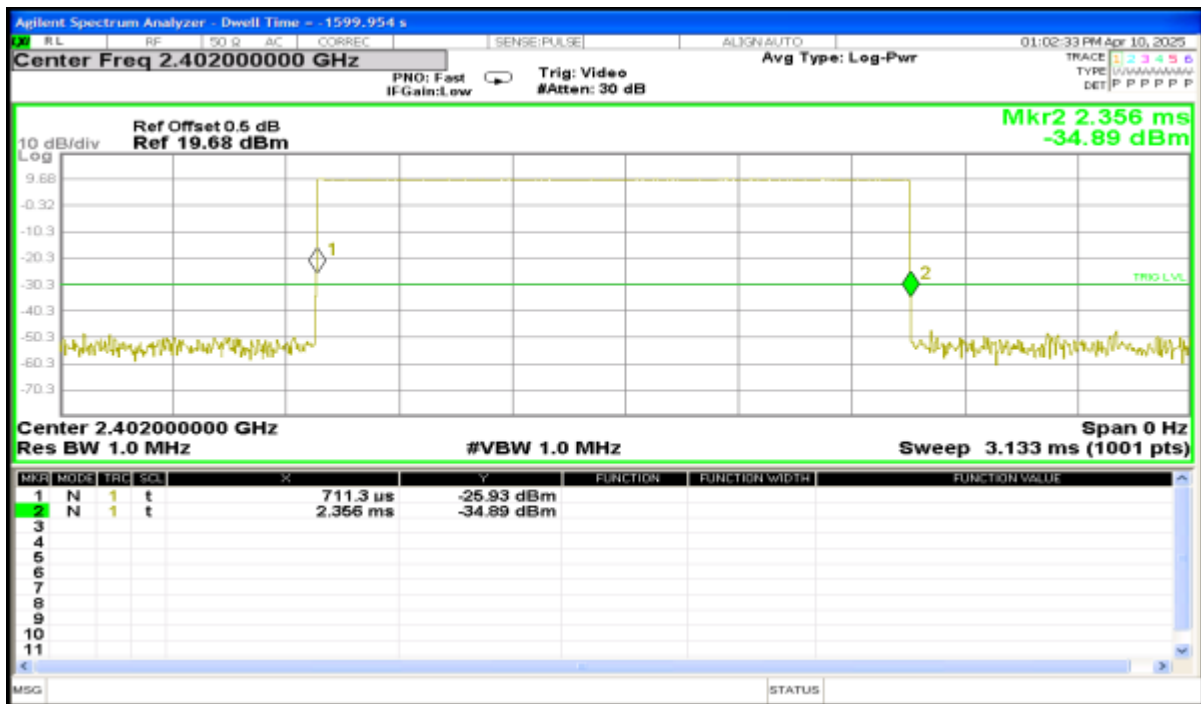
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (ms)	Limits (s)
DH1	2402 MHz	0.387	123.680	0.4000
DH3	2402 MHz	1.645	258.265	0.4000
DH5	2402 MHz	2.896	289.600	0.4000

CH 00- DH1

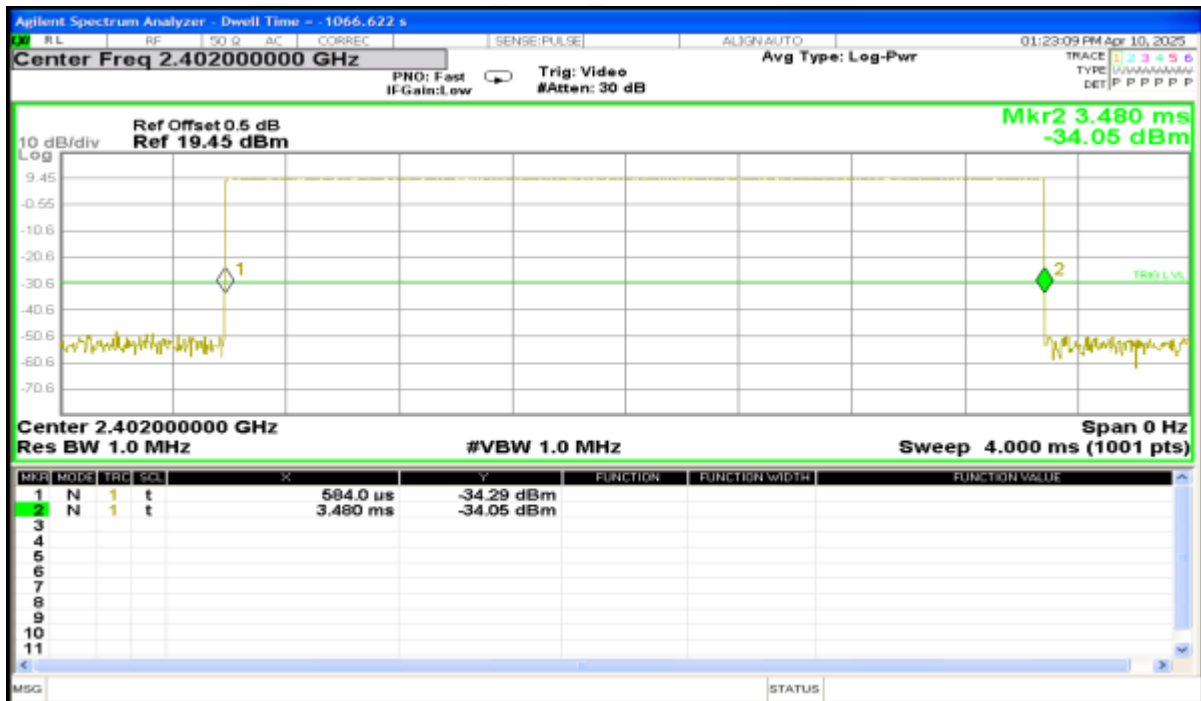


Report No.: AAEMT/RF/250402-01-02

CH 00- DH3



CH 00- DH5

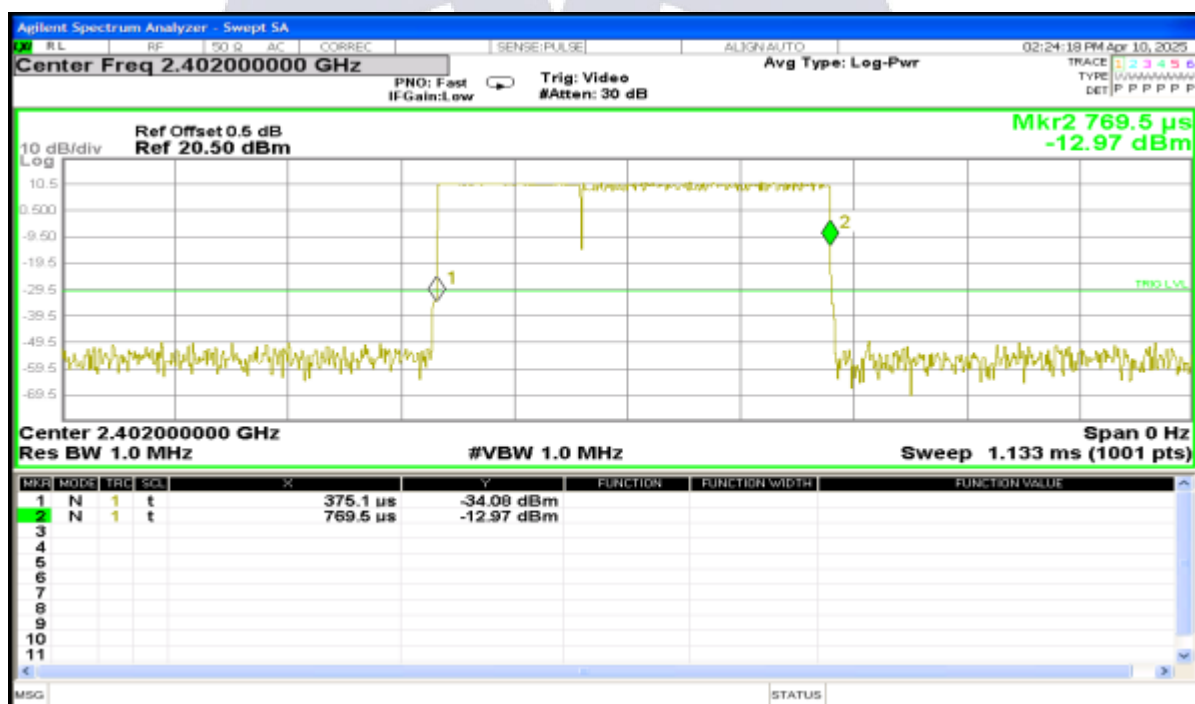


Report No.: AAEMT/RF/250402-01-02

EUT:	Driveri	Model Name. :	D-810
Temperature:	25.4 °C	Relative Humidity:	55%
Pressure:	1010 hPa	Test Power :	110V AC, 60Hz
Test Mode :	CH00-2DH1/2DH3/2DH5 (2Mbps Mode)		

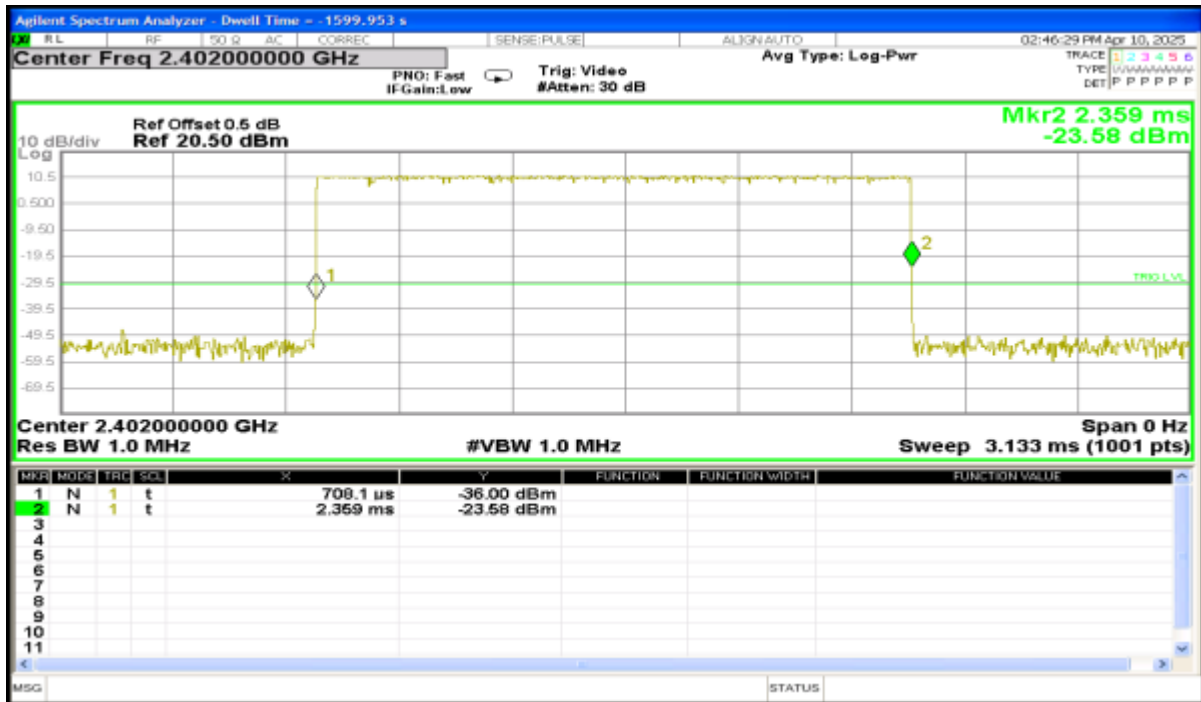
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (ms)	Limits (s)
2DH1	2402 MHz	0.394	126.208	0.4000
2DH3	2402 MHz	1.651	262.557	0.4000
2DH5	2402 MHz	2.900	290.000	0.4000

CH 00- 2DH1



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CH 00- 2DH3



CH 00- 2DH5



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EUT:	Driveri	Model Name. :	D-810
Temperature:	25.4 °C	Relative Humidity:	55%
Pressure:	1010 hPa	Test Power :	110V AC, 60Hz
Test Mode :	CH00-3DH1/3DH3/3DH5 (3Mbps Mode)		

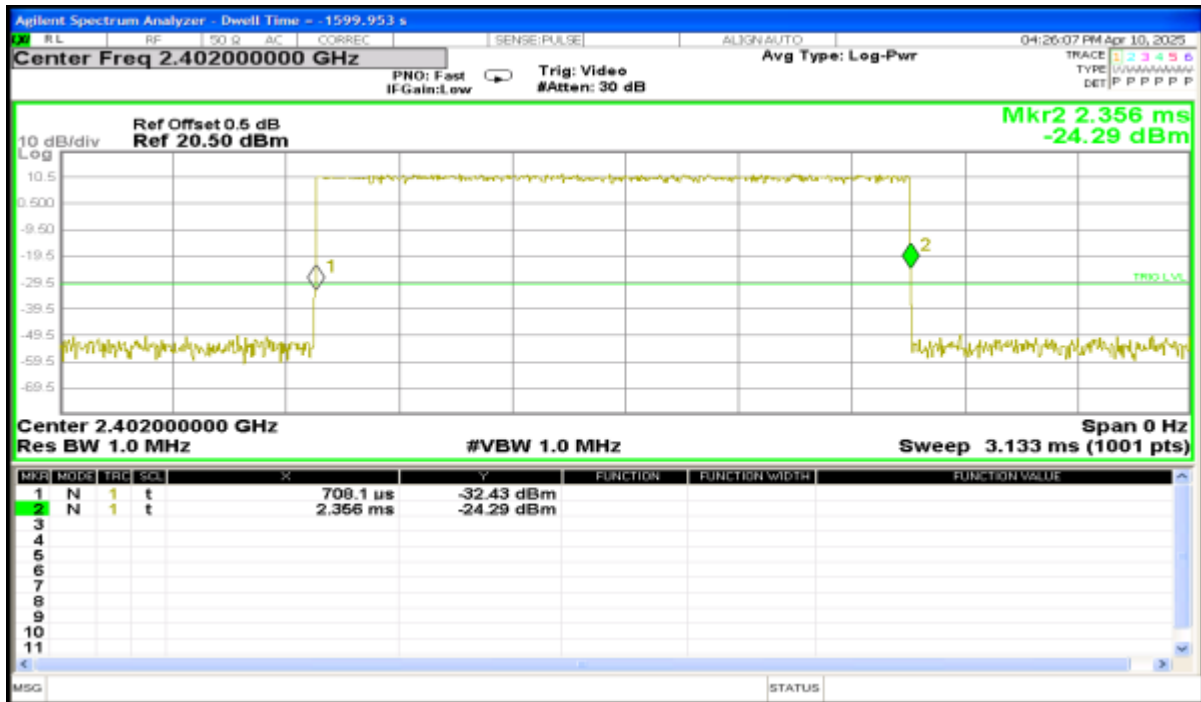
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (ms)	Limits (s)
3DH1	2402 MHz	0.394	125.814	0.4000
3DH3	2402 MHz	1.648	257.104	0.4000
3DH5	2402 MHz	2.904	316.536	0.4000

CH 00- 3DH1

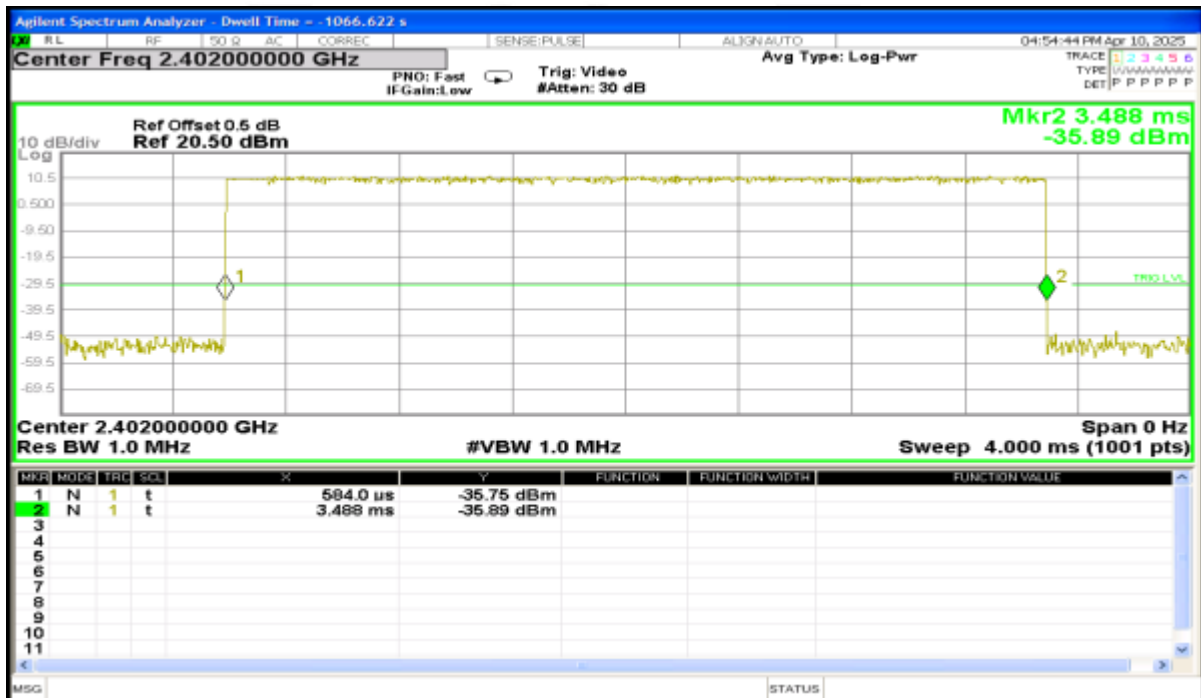


Report No.: AAEMT/RF/250402-01-02

CH 00- 3DH3



CH 00- 3DH5



6.8 Maximum Peak Output Power

6.8.1 Applied procedures / Limit

15.247(a) (1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, 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, provided the systems operate with an output power no greater than 125 mW.

15.247(b) (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

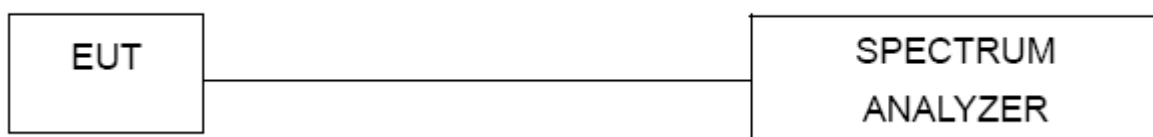
6.8.2 Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as
Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
RBW > the 20 dB bandwidth of the emission being measured, VBW ≥ RBW, Sweep = auto
Detector function = peak, Trace = max hold
- (2) The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power.
- (3) The above procedure shall be repeated at the lowest, the middle, and the highest frequency of the stated frequency range with modulated mode. Also shall be performed at different modes of operation.

6.8.3 Deviation from standard

No deviation.

6.8.4 Test setup

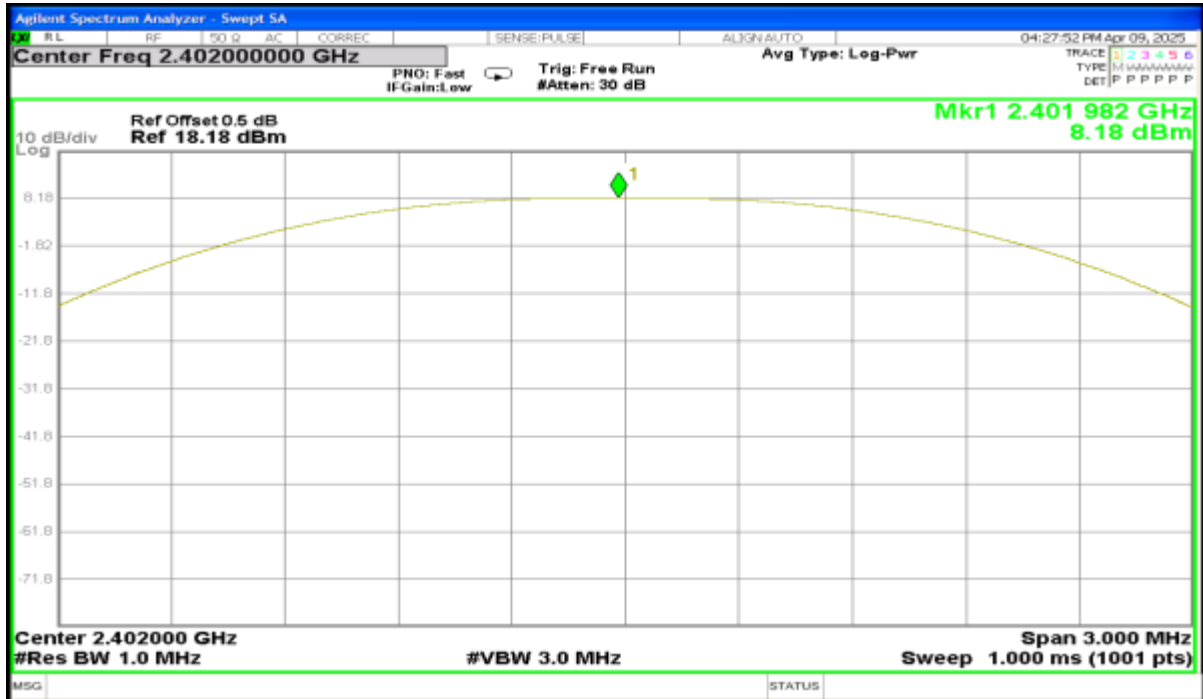


6.8.5 Test results

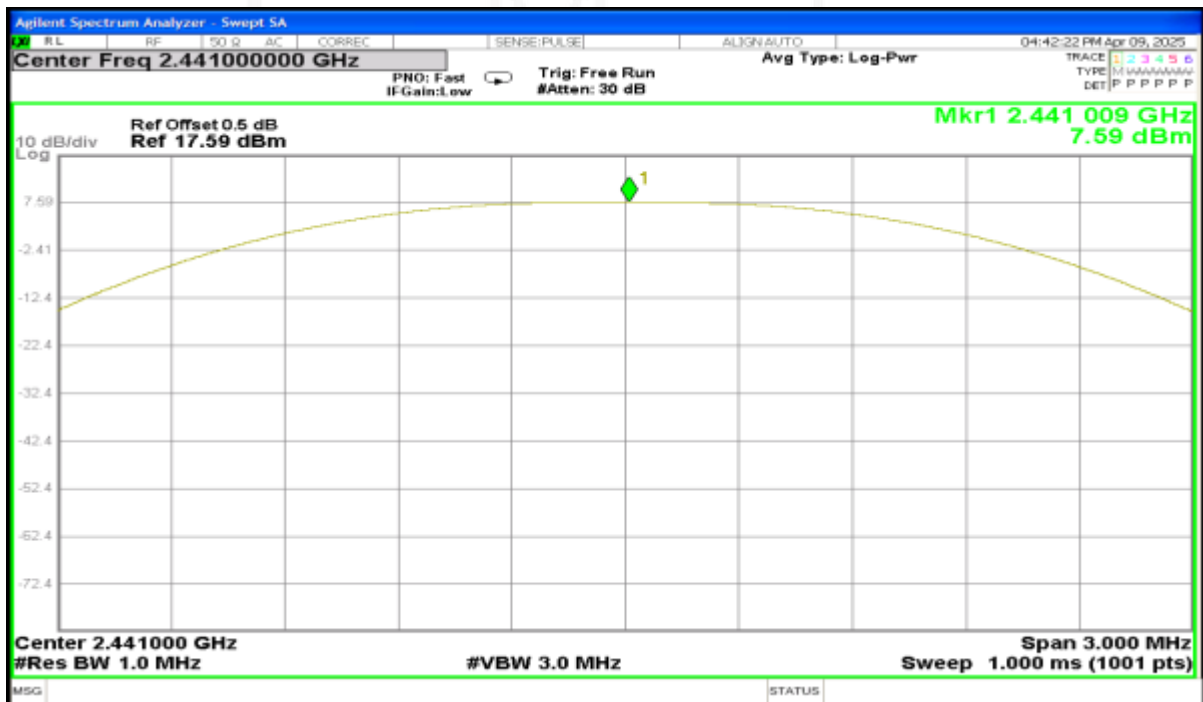
EUT:	Driveri	Model Name. :	D-810
Temperature:	25.4 °C	Relative Humidity:	55%
Pressure:	1010 hPa	Test Power :	110V AC, 60Hz
Test Mode :	TX 1Mbps/ 2Mbps/3Mbps		
Note: All the data rates have be tested and the worst-case as the table below.			

Test Mode	Frequency	Peak Output Power (dBm)	Limit (dBm)	Result
Data rate 1Mbps	2402 MHz	8.18	30	Pass
	2441 MHz	7.59	30	Pass
	2480 MHz	7.30	30	Pass
Data rate 2Mbps	2402 MHz	9.91	30	Pass
	2441 MHz	9.18	30	Pass
	2480 MHz	9.02	30	Pass
Data rate 3Mbps	2402 MHz	9.78	30	Pass
	2441 MHz	9.57	30	Pass
	2480 MHz	9.46	30	Pass
Cable loss = 1.0 dBm				

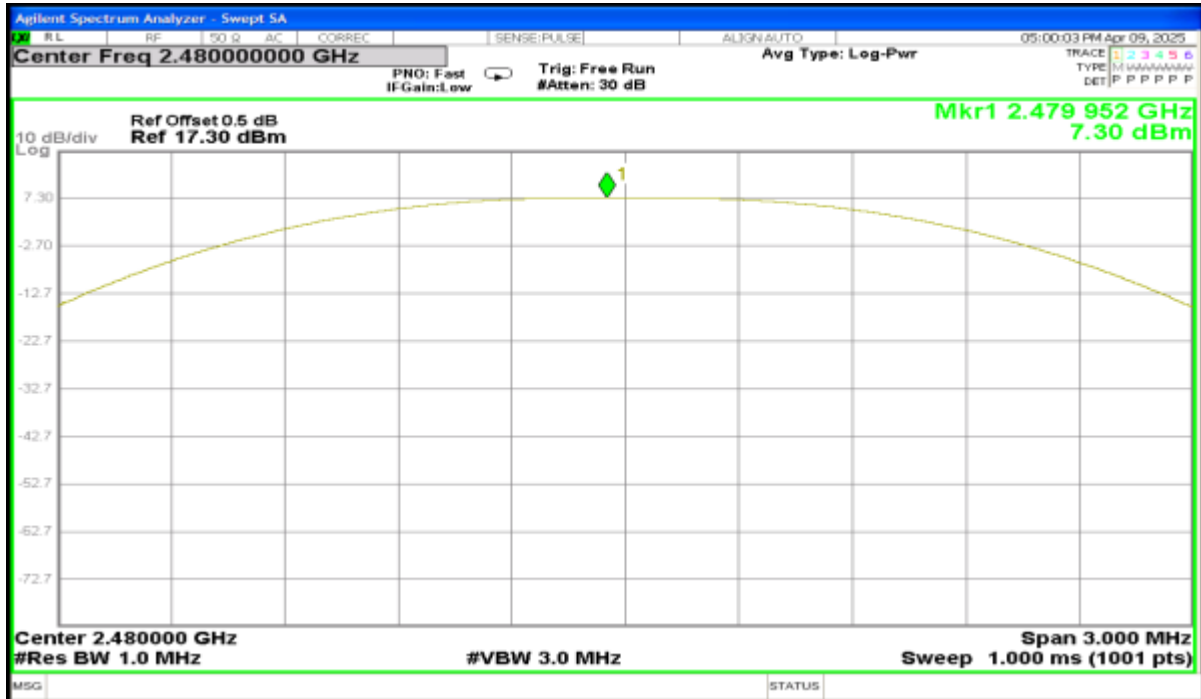
CH 00-1Mbps



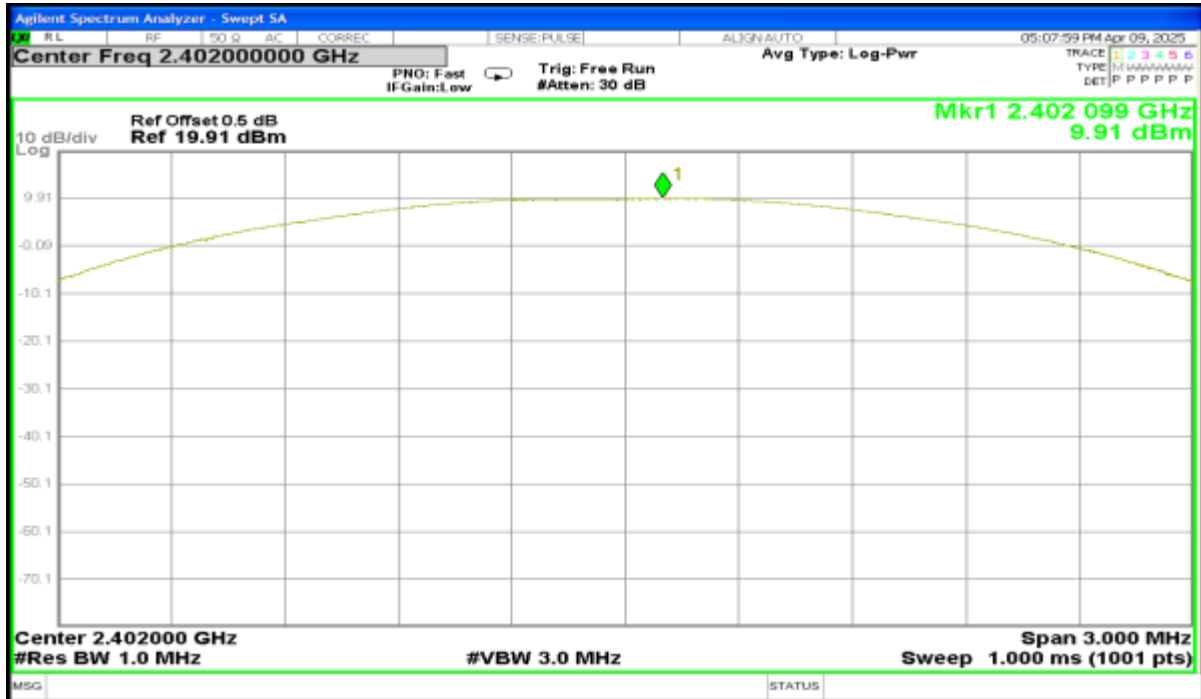
CH 39-1Mbps



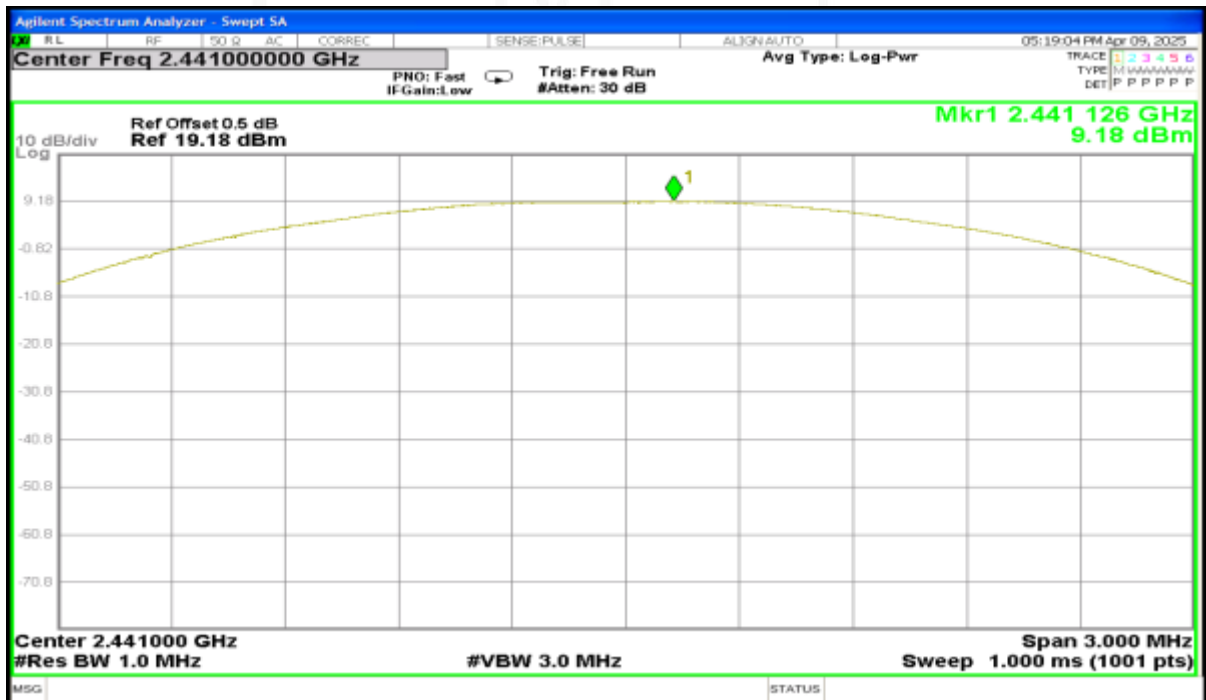
CH 78-1Mbps



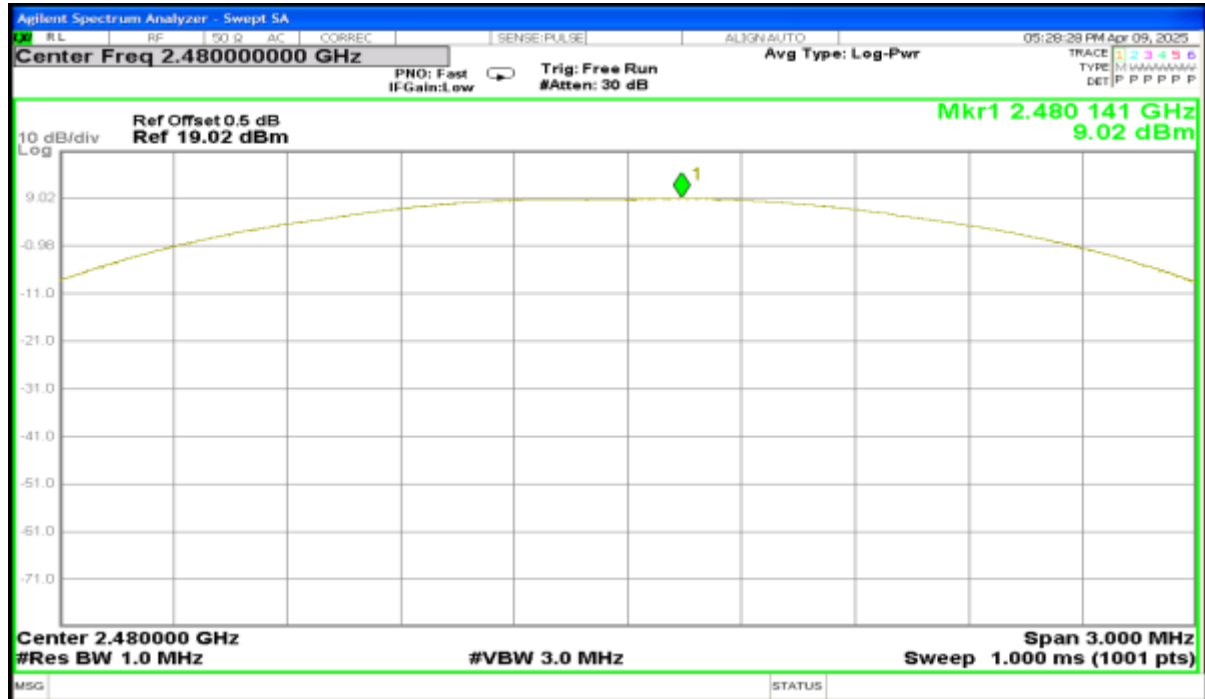
CH 00-2Mbps



CH 39-2Mbps

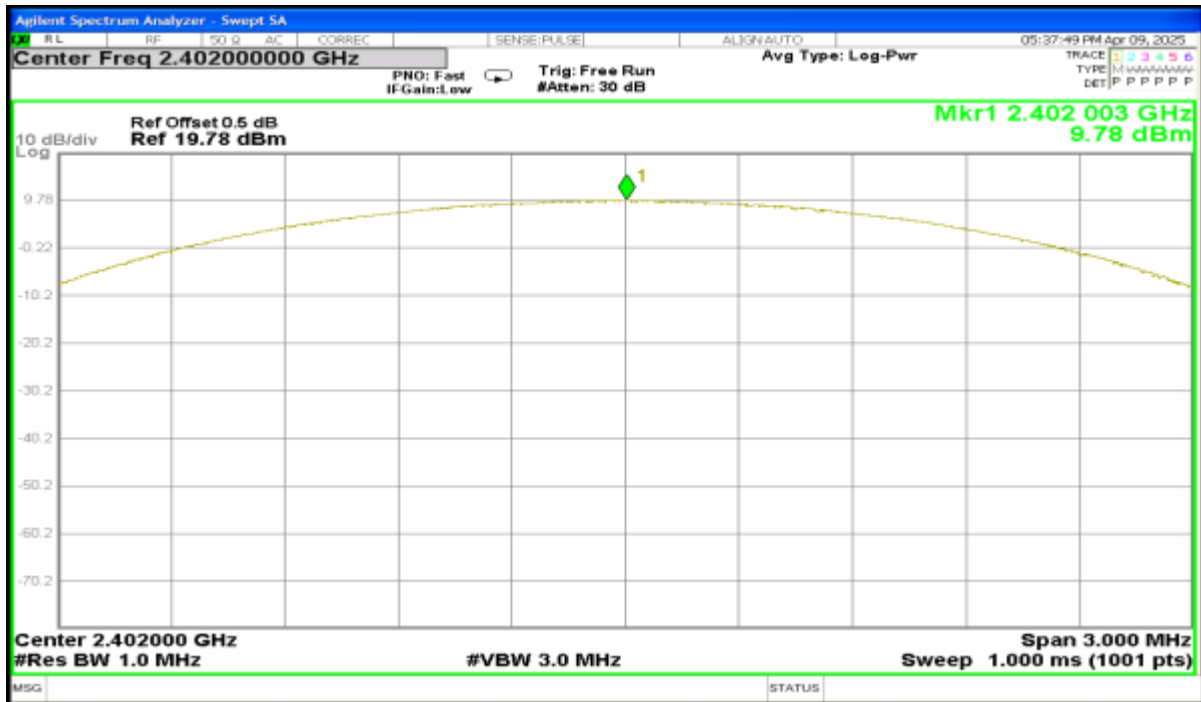


CH 78-2Mbps

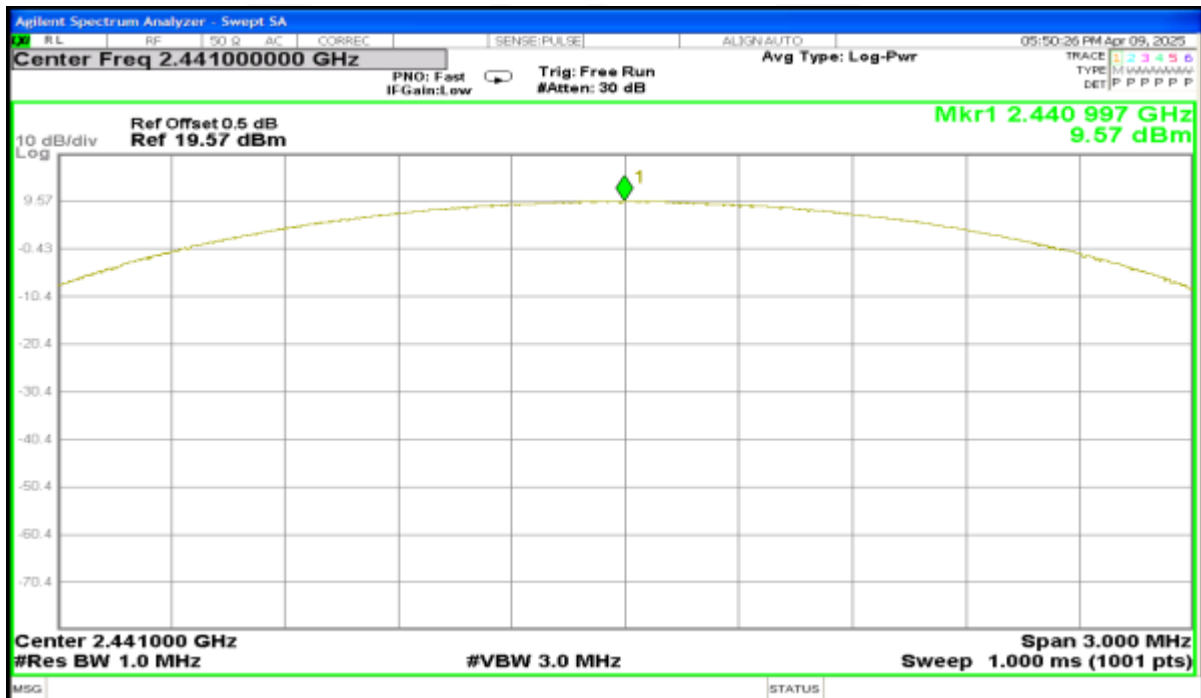


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CH 00-3Mbps

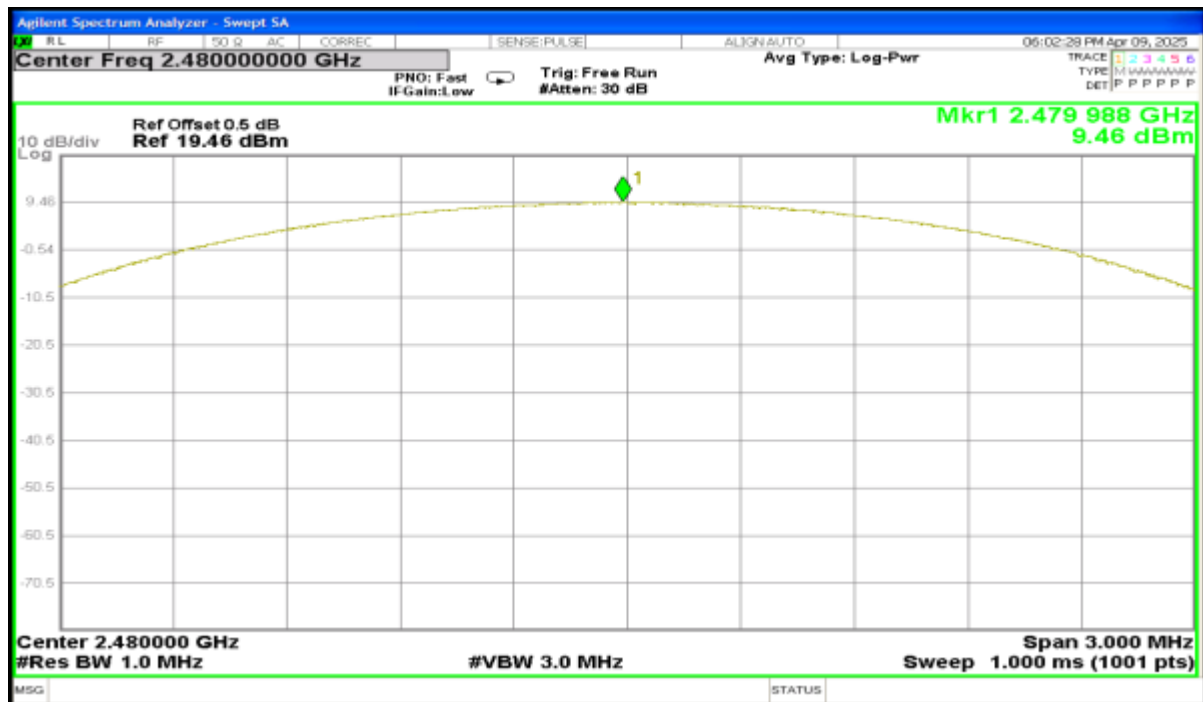


CH 39-3Mbps



Report No.: AAEMT/RF/250402-01-02

CH 78-3Mbps



6.9 Band edge

6.9.1 Applied procedures / Limit

15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

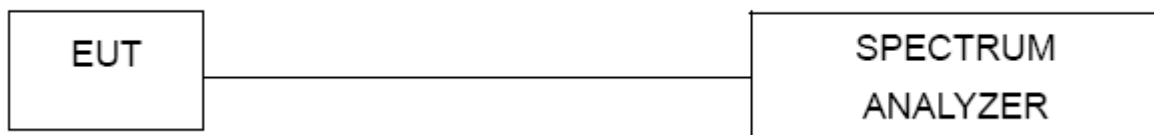
6.9.2 Test procedure

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation, $RBW \geq 1\%$ of the span, $VBW \geq RBW$, Sweep = auto, Detector function = peak, Trace = max hold

6.9.3 Deviation from standard

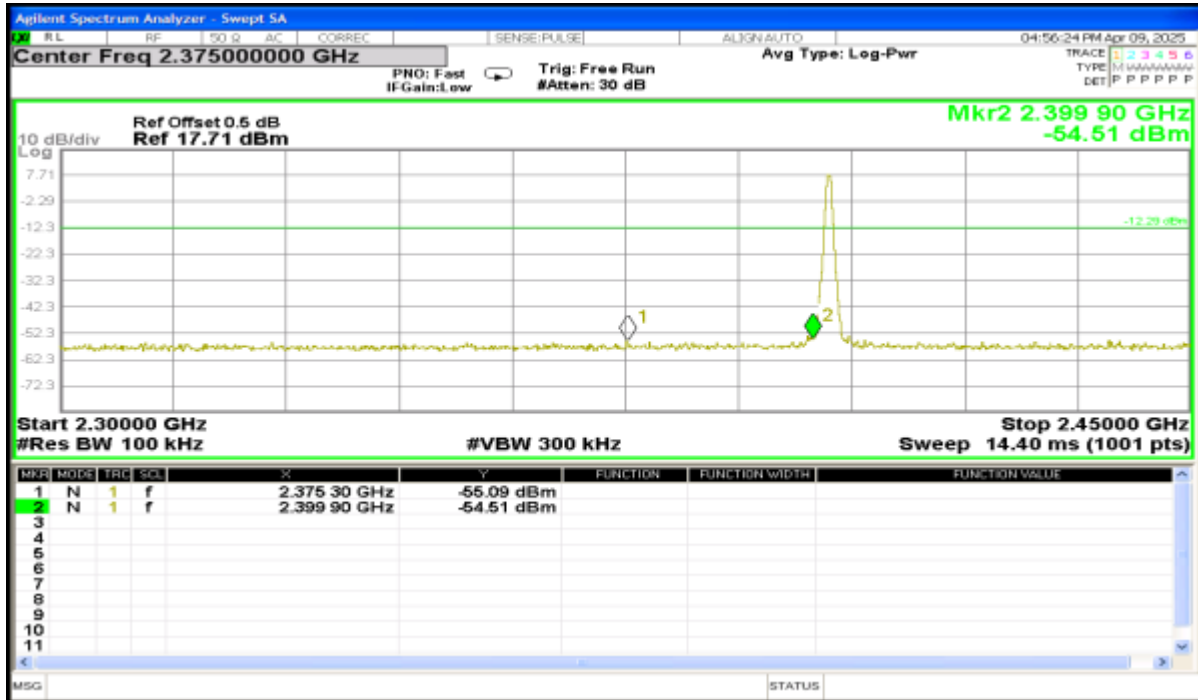
No deviation.

6.9.4 Test setup

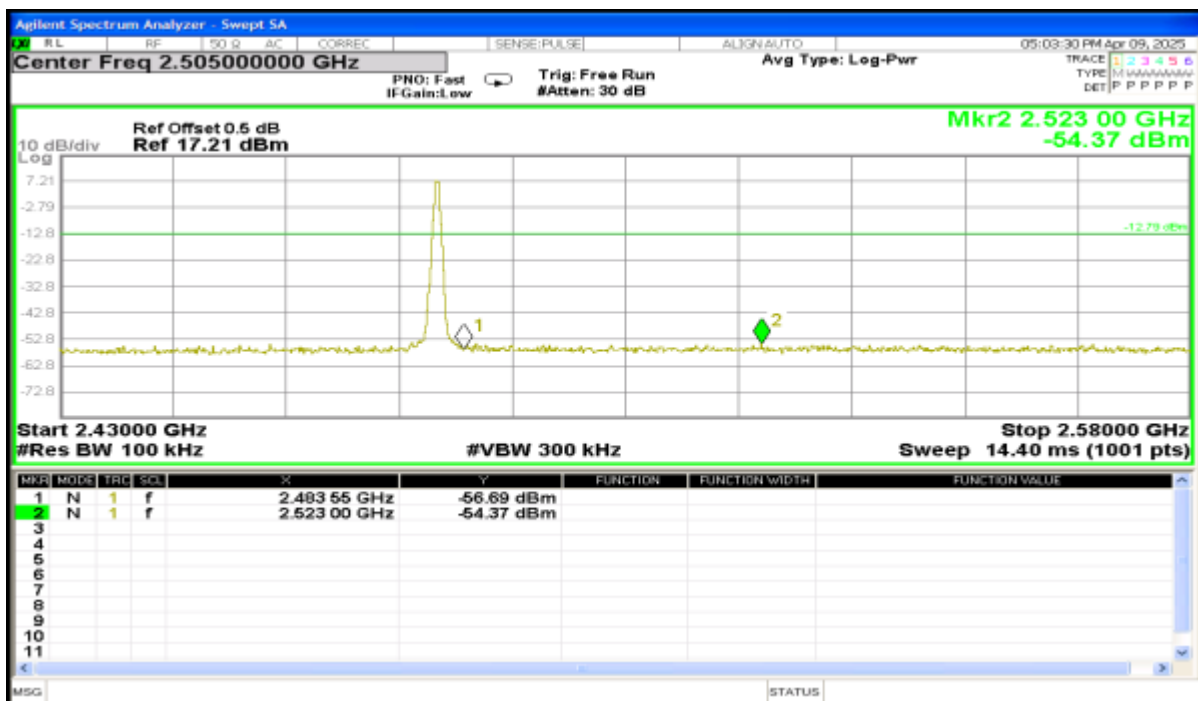


6.9.5 Test results

CH00 (Lower) Data rate 1Mbps



CH 78 (Upper) Data rate 1Mbps

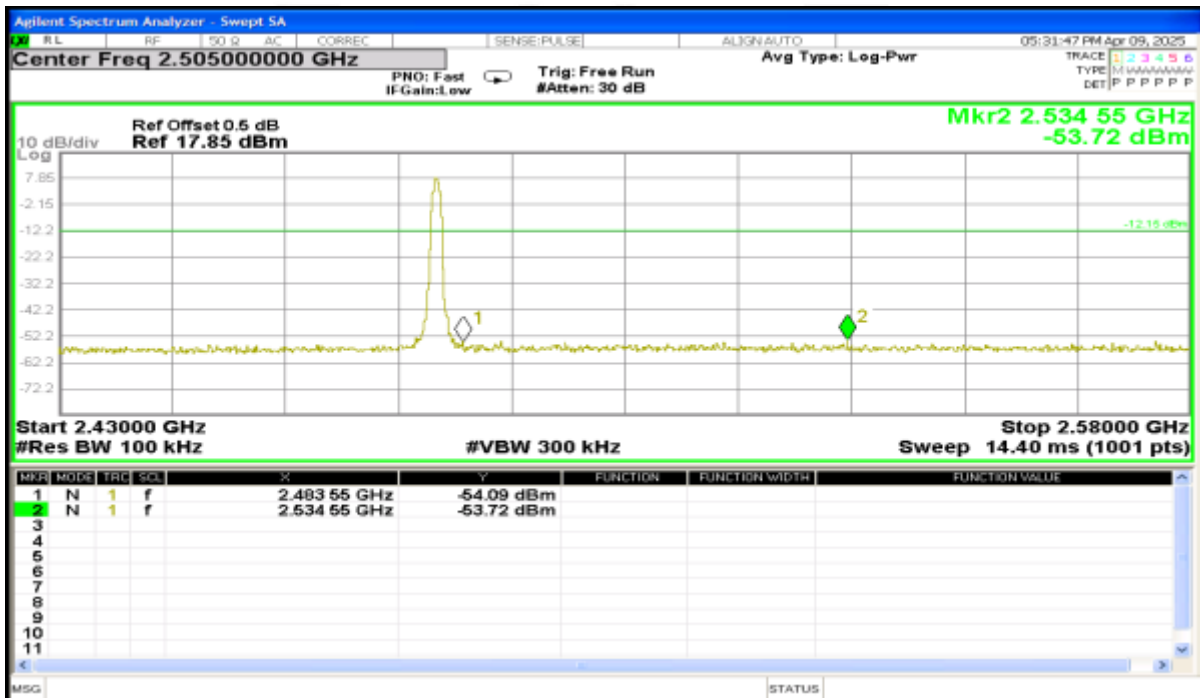


Report No.: AAEMT/RF/250402-01-02

CH00 (Lower) Data rate 2Mbps



CH 78 (Upper) Data rate 2Mbps

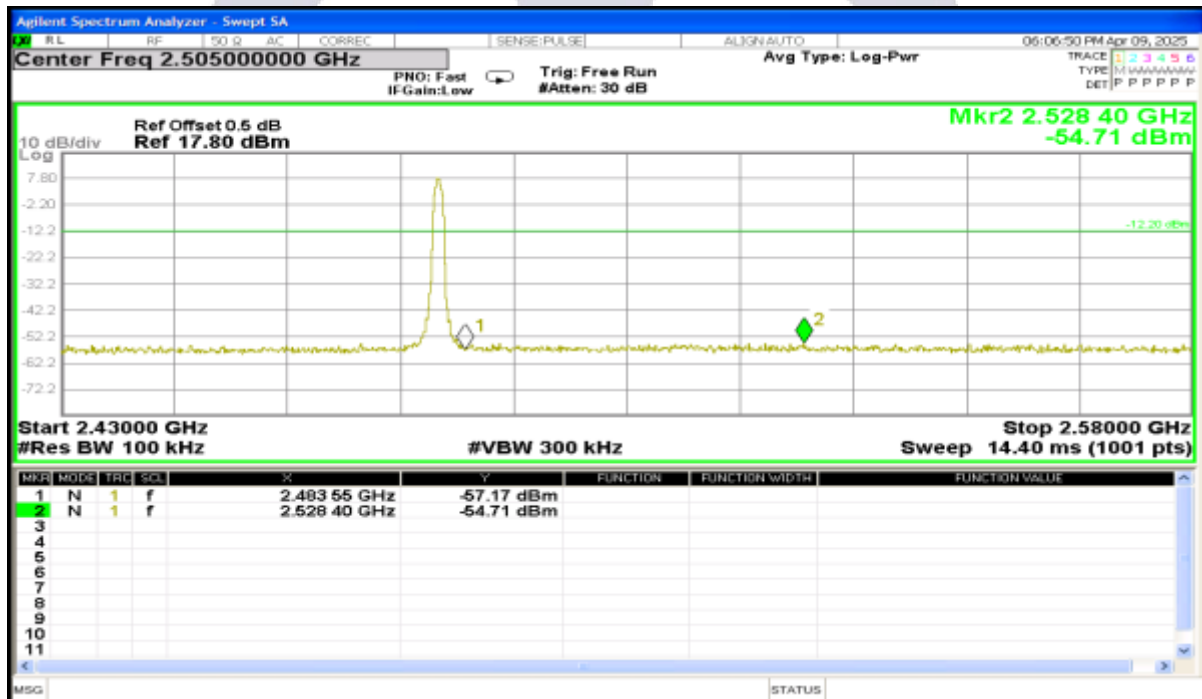


Report No.: AAEMT/RF/250402-01-02

CH00 (Lower) Data rate 3Mbps



CH 78 (Upper) Data rate 3Mbps



6.10 Conducted Spurious Emissions

6.10.1 Applied procedures / Limit

15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.10.2 Test procedure

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span. RBW = 100 kHz
VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold
Sweep points ≥ investigated frequency range/RBW.

6.10.3 Deviation from standard

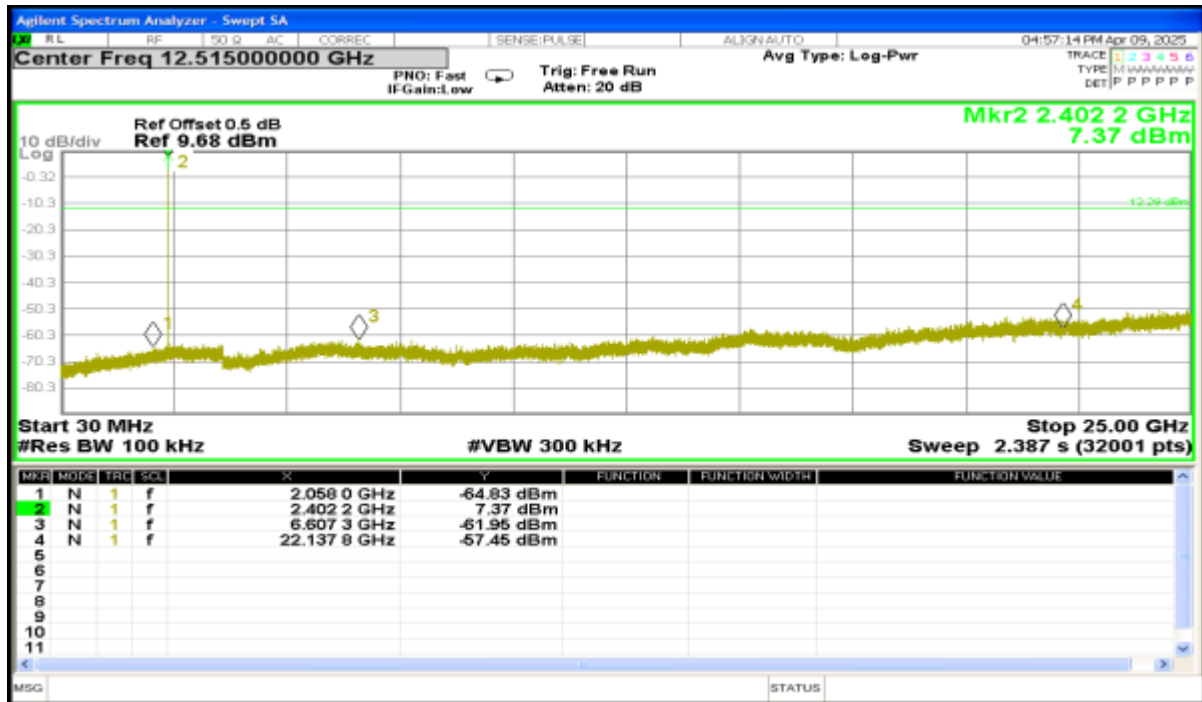
No deviation.

6.10.4 Test setup

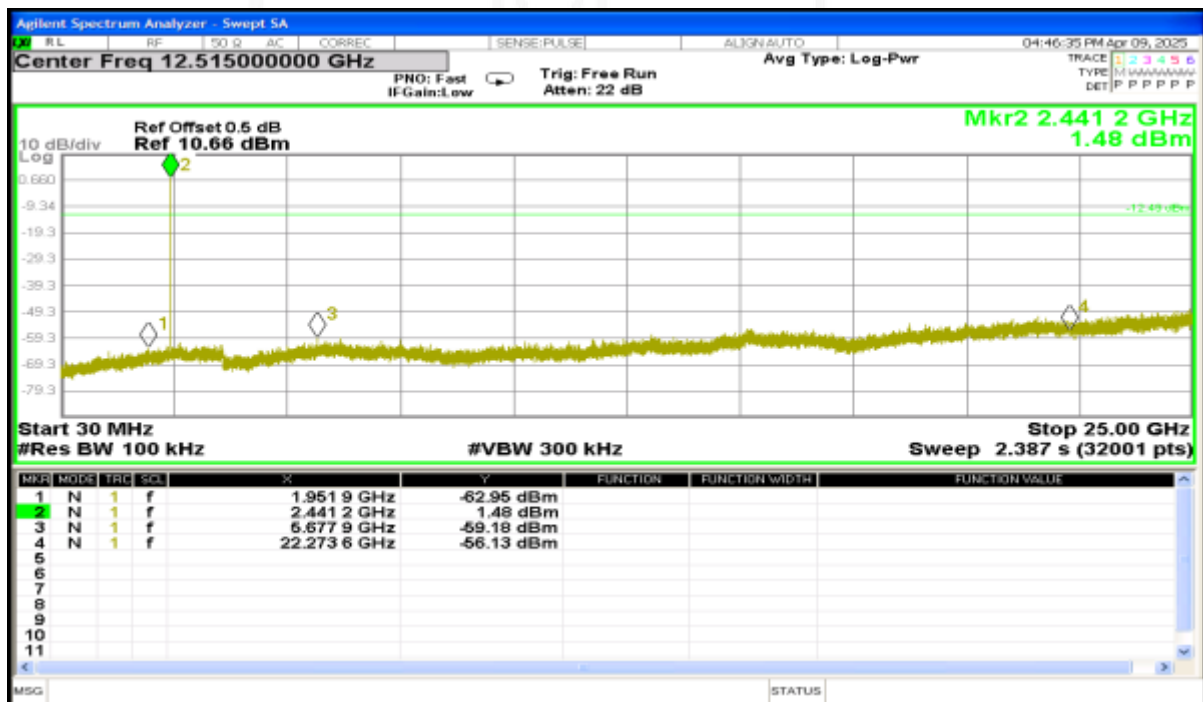


6.10.5 Test results

CH00 Data rate 1Mbps

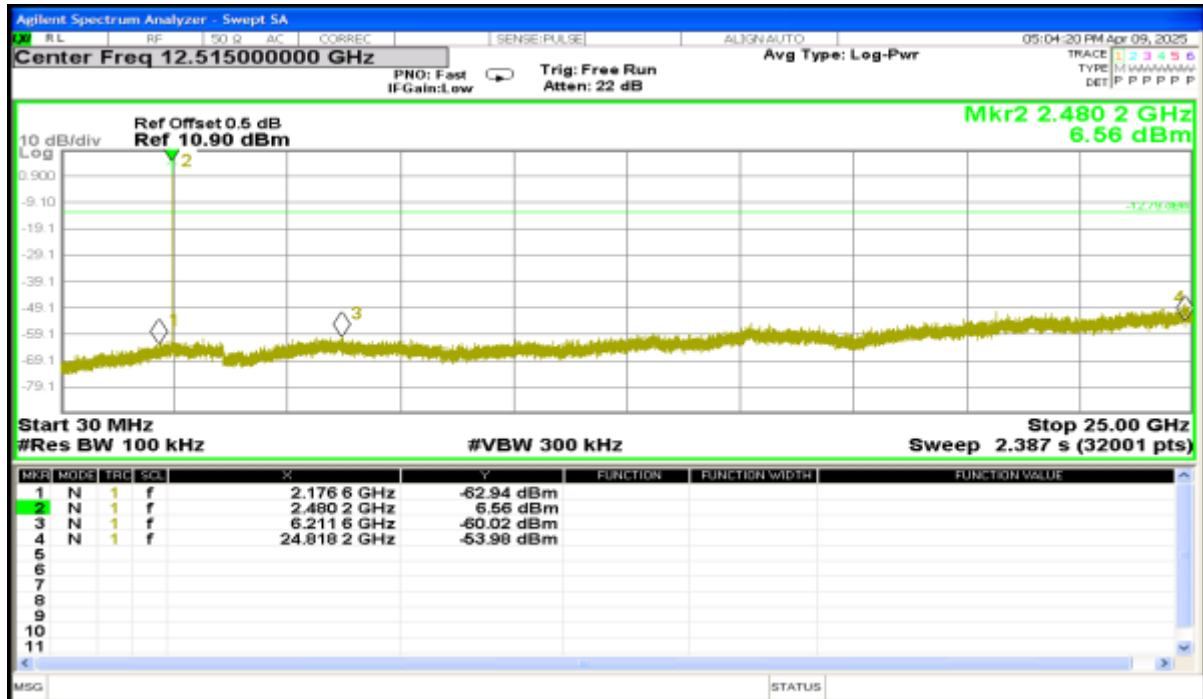


CH39 Data rate 1Mbps

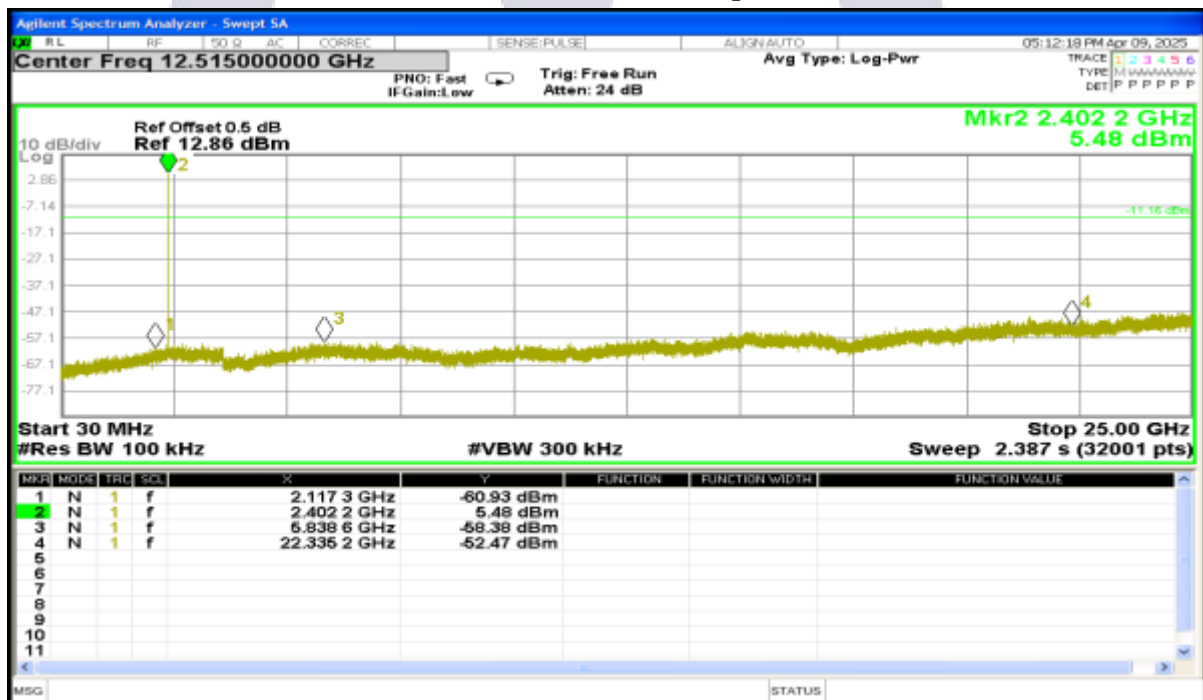


Report No.: AAEMT/RF/250402-01-02

CH78 Data rate 1Mbps

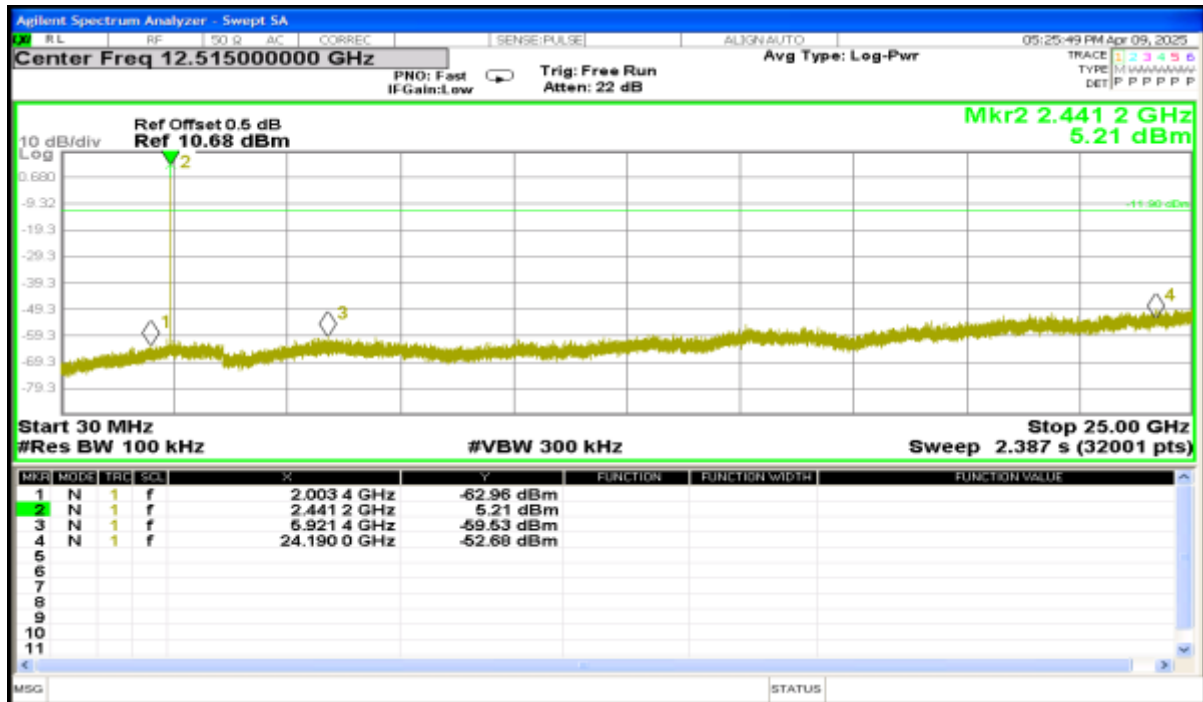


CH00 Data rate 2Mbps

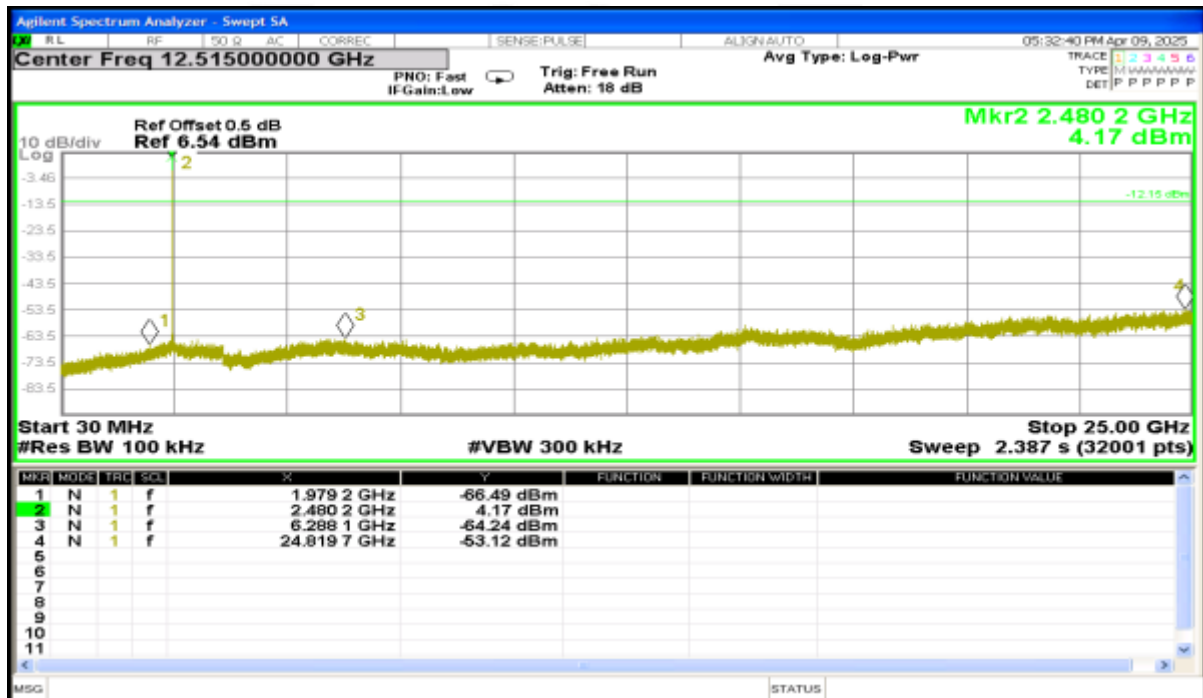


Report No.: AAEMT/RF/250402-01-02

CH39 Data rate 2Mbps

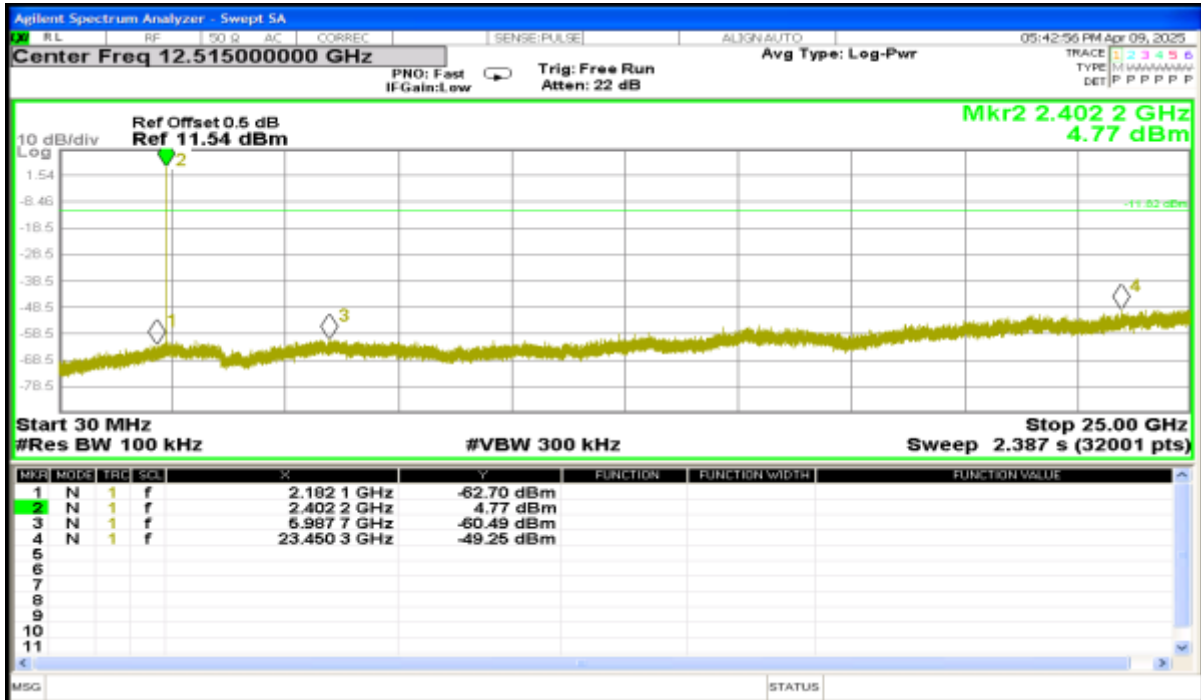


CH78 Data rate 2Mbps

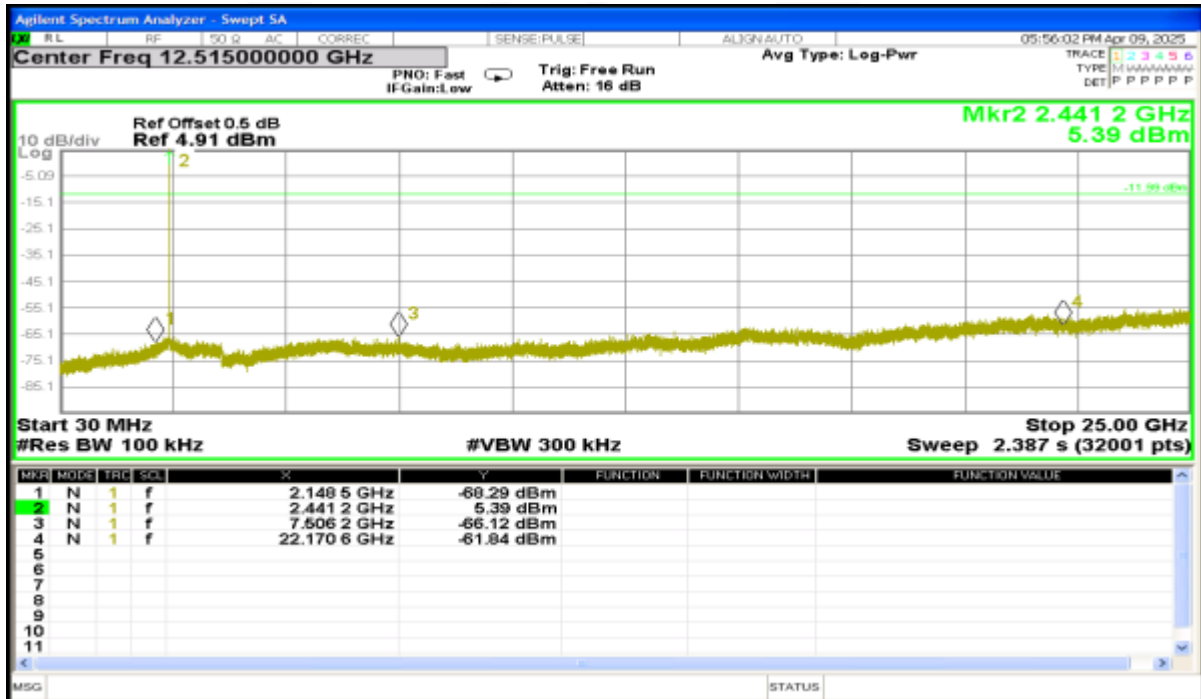


Report No.: AAEMT/RF/250402-01-02

CH00 Data rate 3Mbps

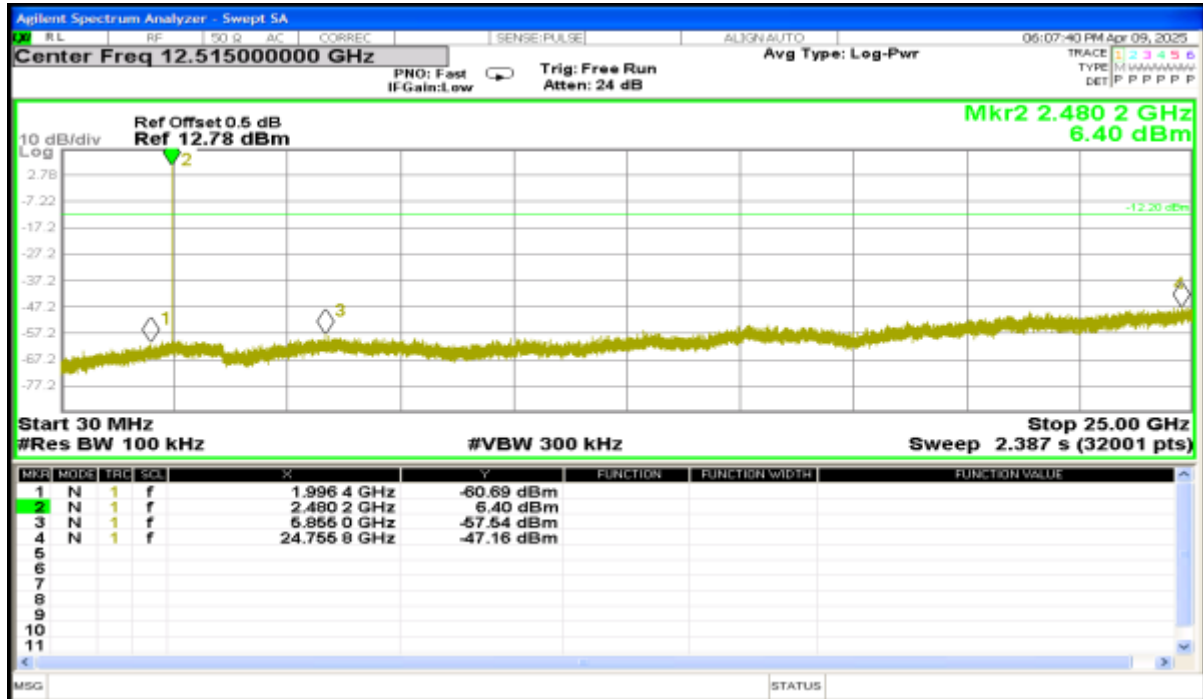


CH39 Data rate 3Mbps



Report No.: AAEMT/RF/250402-01-02

CH78 Data rate 3Mbps



****End of Report****