



FCC RADIO TEST REPORT

FCC ID : UZ7TCX01G
Equipment : Touch Computer
Brand Name : Zebra
Model Name : TCX01G
Applicant : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL
60069 USA
Manufacturer : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL
60069 USA
Standard : FCC Part 15 Subpart C §15.247

The product was received on Nov. 24, 2025 and testing was performed from Dec. 01, 2025 to Jan. 13, 2026. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR5O3114K	01	Initial issue of report	Jan. 30, 2026
FR5O3114K	02	Revised Sample list and Applicable Standards This report is an updated version, replacing the report issued on Jan. 30, 2026	Feb. 10, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.247(b)(3) 15.247(b)(4)	Output Power	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	Pass	2.49 dB under the limit at 2389.43 MHz
3.6	15.207	AC Conducted Emission	Pass	10.98 dB under the limit at 0.17925 MHz
3.7	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Wei Chen

Report Producer: Shannon Huang



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Touch Computer
Brand Name	ZEBRA
Model Name	TCX01G
FCC ID	UZ7TCX01G
EUT supports Radios application	Bluetooth BR/EDR/LE WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 WLAN 11be EHT20/ EHT40/EHT80/EHT160/EHT320 GSM/WCDMA/HSPA/LTE/5G NR/ NFC/UHF RFID /GNSS
SW Version	eris_A15_userdebug_GMS_RelKey_2025-10-07-205955_main_SE
FW Version	eris_A15_userdebug_GMS_RelKey_2025-10-07-205955_main_SE
MFD	30-Sep-25
EUT Stage	Identical Prototype

Remark: The EUT's information above is declared by manufacturer.

<Sample list>

	Scanner	Camera	Bumper
Sample 1	SE4730	Main	w/o
Sample 2	SE4780	Main+Indirect Time-of-Flight	w/o
Sample 3	SE4780	Main+Ultra wide Camera	w/o
Sample 4	SE56	Main+Indirect Time-of-Flight	w/o
Sample 5	SE56	Main+Ultra wide Camera	w/o
Sample 6	SE4730	Main	w/
Sample 7	SE4780	Main+Indirect Time-of-Flight	w/
Sample 8	SE4780	Main+Ultra wide Camera	w/
Sample 9	SE56	Main+Indirect Time-of-Flight	w/
Sample 10	SE56	Main+Ultra wide Camera	w/

Specification of Accessories				
AC Adapter 1 (TYPE C Wall Charger 1)	Brand Name	Zebra	Part Number	SAWA-102-22520A
AC Adapter 2 (TYPE A Wall Charger 2)	Brand Name	Zebra	Part Number	SAWA-65-20005A
Trigger Handle 1	Brand Name	Zebra	Part Number	TRG-TC5A-ELEC-01
Trigger Handle 2	Brand Name	Zebra	Part Number	TRG-TC7A-ELEC-01
Trigger Handle 3	Brand Name	Zebra	Part Number	TRG-TC5AB-ELEC-01
Arm Mount 1	Brand Name	Zebra	Part Number	SG-TC5A-WMADP1-01
Arm Mount 2	Brand Name	Zebra	Part Number	SG-TC5A-WMADP2-01
Soft Holster	Brand Name	Zebra	Part Number	SG-NGTC5TC7-HLSTR-01
Rugged boot	Brand Name	Zebra	Part Number	SG-TC5AEXO-01
Earphone 1 (Wired headset USB-C)	Brand Name	Zebra	Part Number	HDST-USBC-PTT1-01
Earphone 2 (3.5mm PTT Headset)	Brand Name	Zebra	Part Number	HDST-35MM-PTT1-01
Earphone 3 (Rugged Headset)	Brand Name	Zebra	Part Number	HS2100-OTH
Battery	Brand Name	Zebra	Part Number	BT-000535-0020
3.5mm to 3.5mm audio connector	Brand Name	Zebra	Part Number	CBL-HS2100-3MS1-01
USB Cable 1 USB-C to C Cable	Brand Name	Zebra	Part Number	CBL-EC5X-USBC3A-01
USB Cable 2 USB-A to C Cable	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency Range	2400 MHz ~ 2483.5 MHz
Number of Channels	75
Carrier Frequency of Each Channel	2404+n*1 MHz; n=2~76
Antenna Type / Gain	<Ant. 6>: PIFA with gain 0.83 dBi <Ant. 7>: PIFA with gain 1.04 dBi
Type of Modulation	Bluetooth-LE: GFSK

Remark:

1. MIMO Ant. 7+6 Directional Gain is a calculated result from MIMO Ant. 7 and MIMO Ant. 6. The formula used in calculation is documented in section 1.2.1.
2. Power of MIMO Ant. 7 + Ant. 6 is a calculated result from sum of the power MIMO Ant. 7 and MIMO Ant. 6.
3. The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.
4. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2.1 Antenna Directional Gain

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F2)f)ii)

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k th antenna.

As minimum $N_{SS}=1$ is supported by EUT, the formula can be simplified as:

Directional gain = $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi

Where $G_1, G_2, \dots, G_N$ denote single antenna gain.

The directional gain "DG" is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 7	Ant 6	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Bluetooth	1.04	0.83	1.04	3.95	0.00	0.00

Calculation example:

If a device has two antenna, $G_{ANT7} = 1.04$ dBi; $G_{ANT6} = 0.83$ dBi

Directional gain of power measurement = $\max(1.04, 0.83) + 0 = 1.04$ dBi

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[10^{1.04/20} + 10^{0.83/20} \right]^2 / 2 \right\}$$

$$= 3.95 \text{ dBi}$$

Power and PSD limit reduction = Composite gain – 6dBi, (min = 0)



1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Location

The test location is accredited based on TAF code 1190 designated by NCC (National Communication Commission).

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

FCC designation No.: TW1190

Note: The test site complies with ANSI C63.4 2014 requirement.

1.5 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC Part 15 Subpart C §15.247
- ♦ ANSI C63.10-2020 + Cor.1-2023

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	2	2404	40	2442
	3	2405	41	2443
	4	2406	42	2444
	5	2407	43	2445
	6	2408	44	2446
	7	2409	45	2447
	8	2410	46	2448
	9	2411	47	2449
	10	2412	48	2450
	11	2413	49	2451
	12	2414	50	2452
	13	2415	51	2453
	14	2416	52	2454
	15	2417	53	2455
	16	2418	54	2456
	17	2419	55	2457
	18	2420	56	2458
	19	2421	57	2459
	20	2422	58	2460
	21	2423	59	2461
	22	2424	60	2462
	23	2425	61	2463
	24	2426	62	2464
	25	2427	63	2465
	26	2428	64	2466
	27	2429	65	2467
	28	2430	66	2468
	29	2431	67	2469
	30	2432	68	2470
	31	2433	69	2471
	32	2434	70	2472
	33	2435	71	2473
	34	2436	72	2474
	35	2437	73	2475
	36	2438	74	2476
	37	2439	75	2477
	38	2440	76	2478
	39	2441		

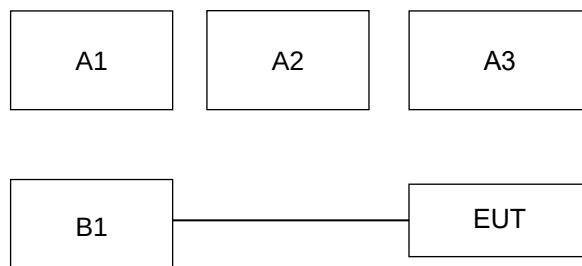
2.2 Test Mode

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Summary table of Test Cases	
Test Item	Data Rate / Modulation
Conducted Test Cases	Bluetooth – LE / GFSK
	Mode 1: Bluetooth_CS_GFSK Tx CH02_2404 MHz_1Mbps
	Mode 2: Bluetooth_CS_GFSK Tx CH38_2440 MHz_1Mbps
	Mode 3: Bluetooth_CS_GFSK Tx CH76_2478 MHz_1Mbps
	Mode 4: Bluetooth_CS_GFSK Tx CH02_2404 MHz_2Mbps
	Mode 5: Bluetooth_CS_GFSK Tx CH38_2440 MHz_2Mbps
	Mode 6: Bluetooth_CS_GFSK Tx CH76_2478 MHz_2Mbps
AC Conducted Emission	Mode 1: BT Link + WLAN (2.4GHz) Link + USB cable 2 with AC Adapter 2 + for Sample 1
Remark: - For Radiated Test Cases, the tests were performed with Sample 1. - The detailed Radiated test modes are shown in Appendix C. - For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.	

2.3 Connection Diagram of Test System



Conduction Test Setup									
No.	Wireless Station	Connection Type	Test Mode						
			1	-	-	-	-	-	-
A1	BT Earphone	Bluetooth	X	-	-	-	-	-	-
A2	AP router	WiFi	X	-	-	-	-	-	-
A3	Notebook	WiFi	X	-	-	-	-	-	-
No.	Power Source	Connection Type	1	-	-	-	-	-	-
B1	AC : 120V/60Hz	AC Power Cable	X	-	-	-	-	-	-

Radiation Tx Test Setup									
No.	Power Source	Connection Type	Test Mode						
			1~33	-	-	-	-	-	-
B1	AC : 120V/60Hz	USB Cable	X	-	-	-	-	-	-

2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	JLab	JBuds Mini	2AHYV	N/A	Unshielded, 1m
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8m
3.	Notebook	Dell	Latitude 3420	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m

Remark: Applicant has ensured support unit would not be attached with the product on the market, support unit is provided by lab for testing.

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT v4.1 Version 4.0.170.1” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

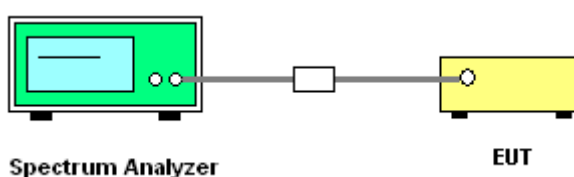
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth VBW $\geq 3 * RBW$. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth, and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna of directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

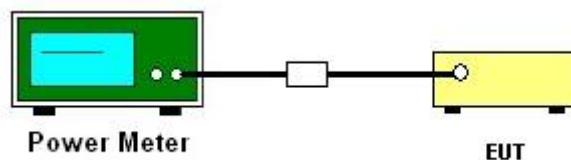
3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator.
3. The path loss is compensated to the results for each measurement.
4. Set the maximum power setting and enable the EUT to transmit continuously.
5. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

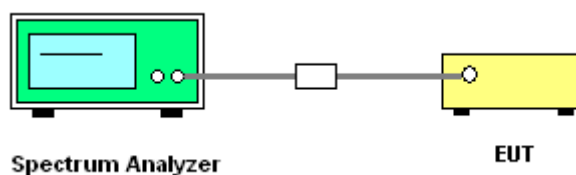
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth (VBW) = 10 kHz. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6 dB BW)
5. Detector = peak, Sweep time = No faster than coupled (auto) time, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100 kHz is a reference level and is used as 20 dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 30 dB down from the highest emission level within the authorized band.

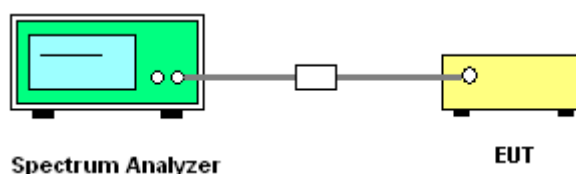
3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedure

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW = 300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges Plots

Please refer to Appendix A.

3.4.6 Test Result of Conducted Spurious Emission Plots

Please refer to Appendix A.

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

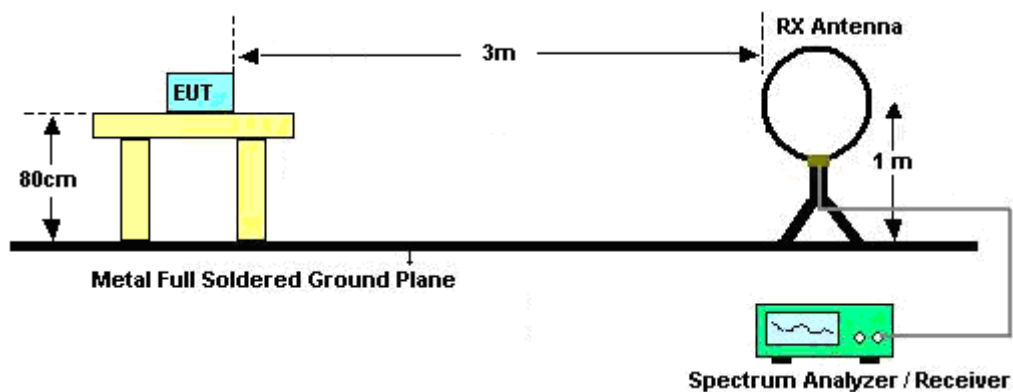


3.5.3 Test Procedures

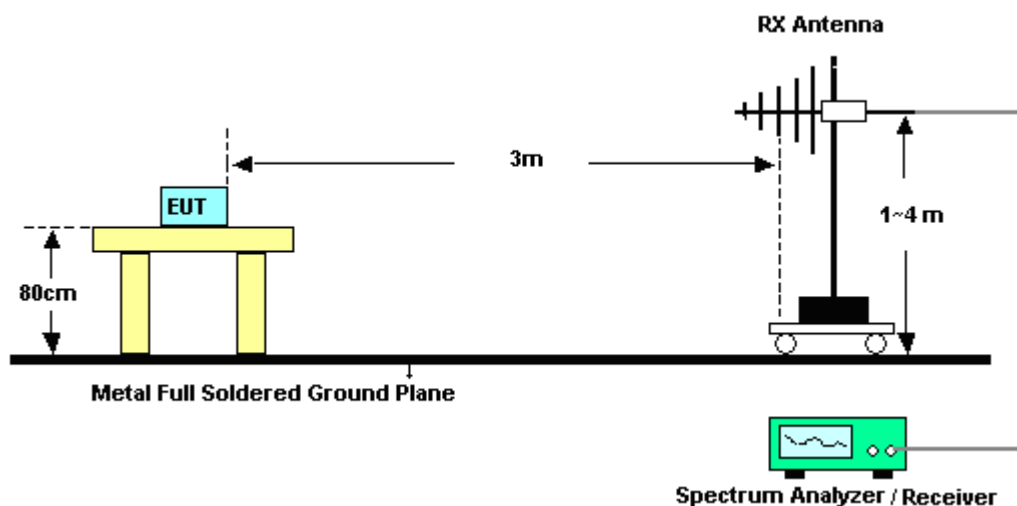
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW = 3 MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

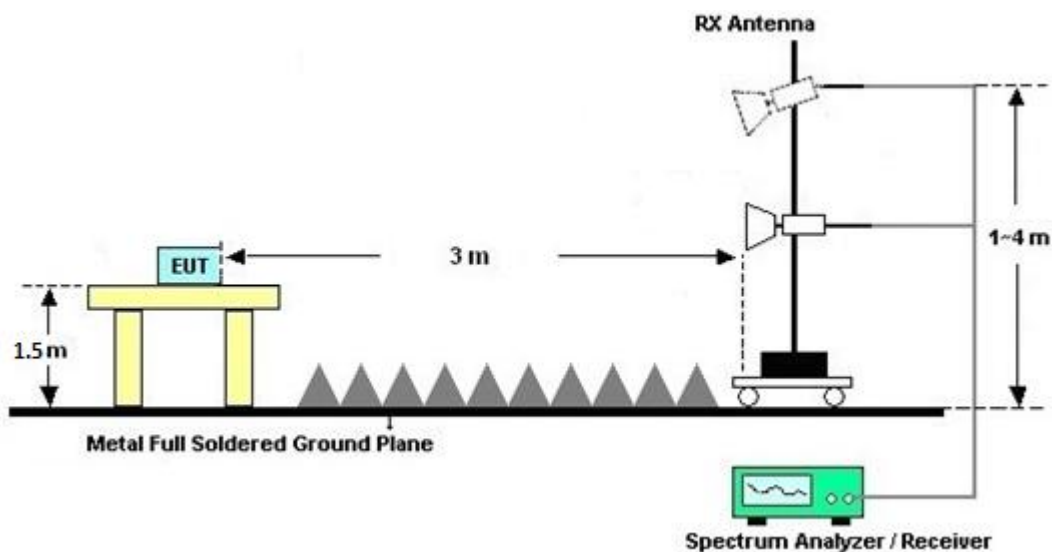
For radiated test below 30MHz



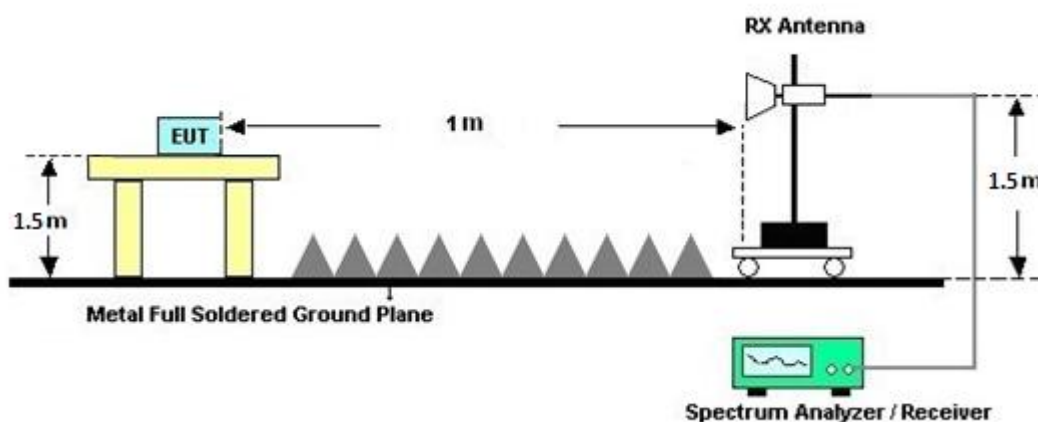
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30 MHz ~ 10th Harmonic)

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

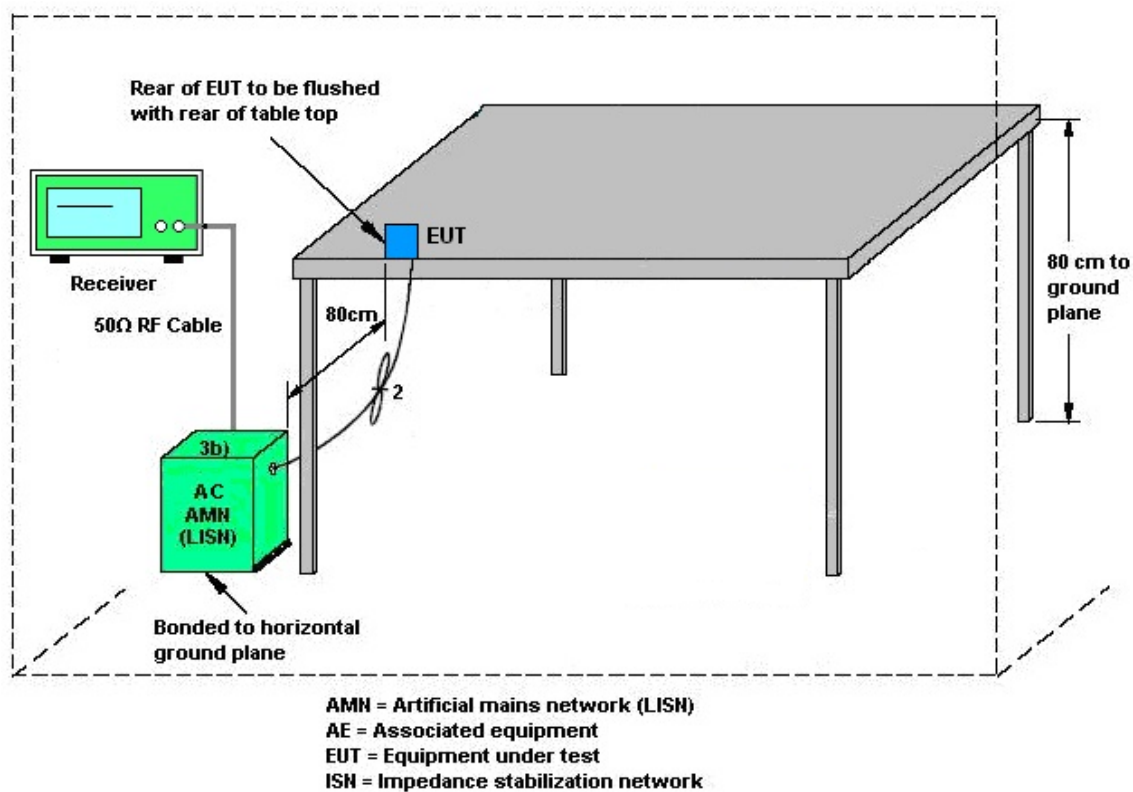
3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
6. The frequency range from 150 kHz to 30 MHz is scanned.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.7.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9kHz~30MHz	Mar. 06, 2025	Dec. 01, 2025 Jan. 13, 2026	Mar. 05, 2026	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 21, 2025	Dec. 01, 2025 Jan. 13, 2026	Apr. 20, 2026	Radiation (03CH07-HY)
Horn Antenna	SCHWARZBE CK	BBHA9170	00991	18GHz~40GHz	May 29, 2025	Dec. 01, 2025 Jan. 13, 2026	May 28, 2026	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D- 00101800-30- 10P	1590075	1GHz~18GHz	Apr. 18, 2025	Dec. 01, 2025 Jan. 13, 2026	Apr. 17, 2026	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Sep. 30, 2025	Dec. 01, 2025 Jan. 13, 2026	Sep. 29, 2026	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Mar. 22, 2025	Dec. 01, 2025 Jan. 13, 2026	Mar. 21, 2026	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Aug. 08, 2025	Dec. 01, 2025 Jan. 13, 2026	Aug. 07, 2026	Radiation (03CH07-HY)
Signal Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 28, 2025	Dec. 01, 2025 Jan. 13, 2026	Mar. 27, 2026	Radiation (03CH07-HY)
Double Ridged Guide Horn Antenna	ETS-Lindgren	3117	00066584	1GHz~18GHz	Dec. 20, 2024	Dec. 01, 2025 Dec. 08, 2025	Dec. 19, 2025	Radiation (03CH07-HY)
Double Ridged Guide Horn Antenna	ETS-Lindgren	3117	00075962	1GHz~18GHz	Dec. 09, 2025	Dec. 09, 2025 Jan. 13, 2026	Dec. 08, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4 MY15682/4	30MHz to 18GHz	Feb. 20, 2025	Dec. 01, 2025 Jan. 13, 2026	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 20, 2025	Dec. 01, 2025 Jan. 13, 2026	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 13, 2025	Dec. 01, 2025 Jan. 13, 2026	Sep. 12, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 20, 2025	Dec. 01, 2025 Jan. 13, 2026	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9kHz~40GHz	Apr. 23, 2025	Dec. 01, 2025 Jan. 13, 2026	Apr. 22, 2026	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Dec. 01, 2025 Jan. 13, 2026	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Dec. 01, 2025 Jan. 13, 2026	N/A	Radiation (03CH07-HY)
Antenna Mast	MF	MF-7802	N/A	Control Turn table	N/A	Dec. 01, 2025 Jan. 13, 2026	N/A	Radiation (03CH07-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Dec. 01, 2025 Jan. 13, 2026	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Feb. 24, 2025	Dec. 01, 2025 Jan. 13, 2026	Feb. 23, 2026	Radiation (03CH07-HY)
Attenuator	HONOVA	5910 SMA-50-005-19-NE	ATT-36	30MHz~18GHz	Feb. 11, 2025	Dec. 01, 2025 Jan. 13, 2026	Feb. 10, 2026	Radiation (03CH07-HY)
Software	Audix	E3	RK-002396	N/A	N/A	Dec. 01, 2025 Jan. 13, 2026	N/A	Radiation (03CH07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	N/A	Oct. 21, 2025	Dec. 04, 2025	Oct. 20, 2026	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP210031	N/A	Jun. 26, 2025	Dec. 04, 2025	Jun. 25, 2026	Conduction (CO05-HY)
Two-Line V-Network	Rohde & Schwarz	ENV216	100081	N/A	Jul. 25, 2025	Dec. 04, 2025	Jul. 24, 2026	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	00691	N/A	Jul. 29, 2025	Dec. 04, 2025	Jul. 28, 2026	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	MQT24082501	N/A	Oct. 14, 2025	Dec. 04, 2025	Oct. 13, 2026	Conduction (CO05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 04, 2025	N/A	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Dec. 04, 2025	N/A	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Dec. 08, 2025 Dec. 29, 2025	Nov. 03, 2026	Conducted (TH02-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO37 (NO:167)	10MHz~6GHz	Nov. 14, 2025	Dec. 08, 2025 Dec. 29, 2025	Nov. 13, 2026	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 29, 2025	Dec. 08, 2025 Dec. 29, 2025	Aug. 28, 2026	Conducted (TH02-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Dec. 08, 2025 Dec. 29, 2025	Feb. 09, 2026	Conducted (TH02-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Dec. 08, 2025 Dec. 29, 2025	N/A	Conducted (TH02-HY)

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.7 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.3 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7 dB
--	--------

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.5 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
--	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Junyu Zhou	Temperature:	21~25	°C
Test Date:	2025/12/8~2025/12/29	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE GFSK	1Mbps	2	2	2404	1.018	0.650	0.50	Pass
BLE GFSK	1Mbps	2	38	2440	1.019	0.650	0.50	Pass
BLE GFSK	1Mbps	2	76	2478	1.019	0.651	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power Ant 7 (dBm)	Average Conducted Power Ant 6 (dBm)	Total Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	Total EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE GFSK	1Mbps	2	2	2404	12.18	12.03	15.12	30.00	1.04	16.16	36.00	Pass
BLE GFSK	1Mbps	2	38	2440	11.99	11.92	14.97	30.00	1.04	16.01	36.00	Pass
BLE GFSK	1Mbps	2	76	2478	11.63	10.69	14.20	30.00	1.04	15.24	36.00	Pass

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	Peak PSD Worst +3.01 (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE GFSK	1Mbps	2	2	2404	13.35	-4.75	-1.74	1.04	8.00	Pass
BLE GFSK	1Mbps	2	38	2440	13.82	-4.28	-1.27	1.04	8.00	Pass
BLE GFSK	1Mbps	2	76	2478	12.86	-5.24	-2.23	1.04	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE GFSK	2Mbps	2	2	2404	2.049	0.868	0.50	Pass
BLE GFSK	2Mbps	2	38	2440	2.049	0.867	0.50	Pass
BLE GFSK	2Mbps	2	76	2478	2.047	0.867	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power Ant 7 (dBm)	Average Conducted Power Ant 6 (dBm)	Total Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	Total EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE GFSK	2Mbps	2	2	2404	12.26	12.14	15.21	30.00	1.04	16.25	36.00	Pass
BLE GFSK	2Mbps	2	38	2440	12.07	12.03	15.06	30.00	1.04	16.10	36.00	Pass
BLE GFSK	2Mbps	2	76	2478	11.65	10.81	14.26	30.00	1.04	15.30	36.00	Pass

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	Peak PSD Worst +3.01 (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE GFSK	2Mbps	2	2	2404	13.26	-9.24	-6.23	1.04	8.00	Pass
BLE GFSK	2Mbps	2	38	2440	13.75	-8.78	-5.77	1.04	8.00	Pass
BLE GFSK	2Mbps	2	76	2478	12.83	-9.67	-6.66	1.04	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

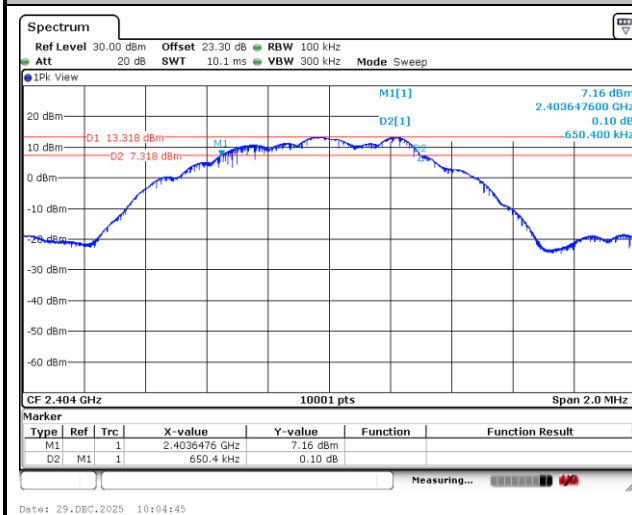


Number of TX = 2, Ant. 7 (Measured)

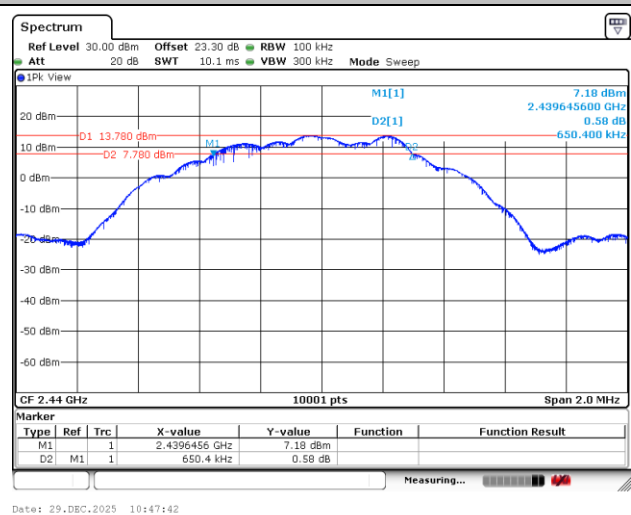
6dB Bandwidth

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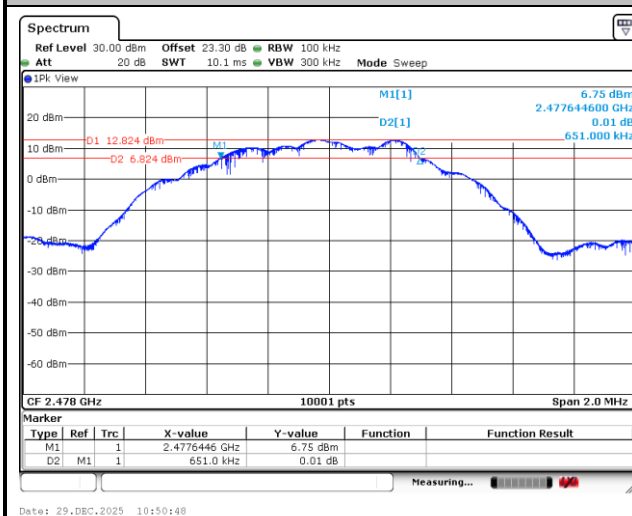
6 dB Bandwidth Plot on Channel 02



6 dB Bandwidth Plot on Channel 38



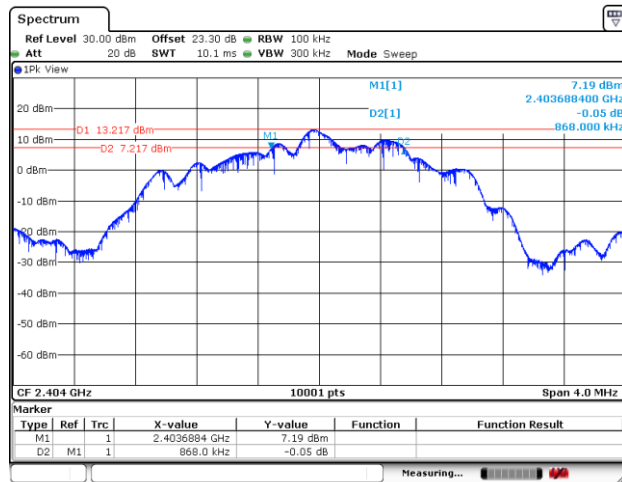
6 dB Bandwidth Plot on Channel 76



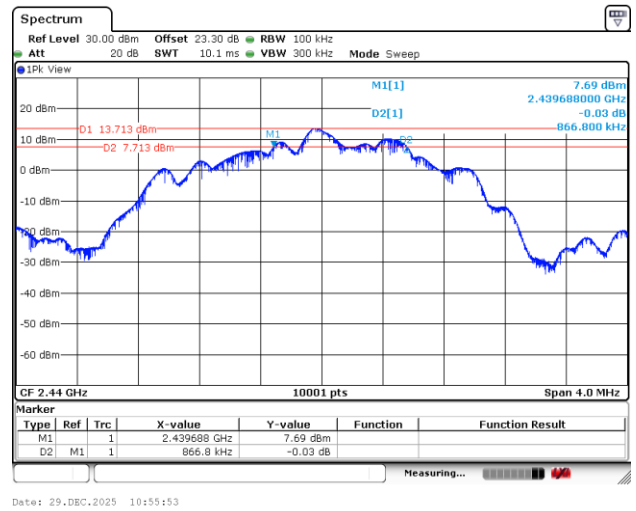


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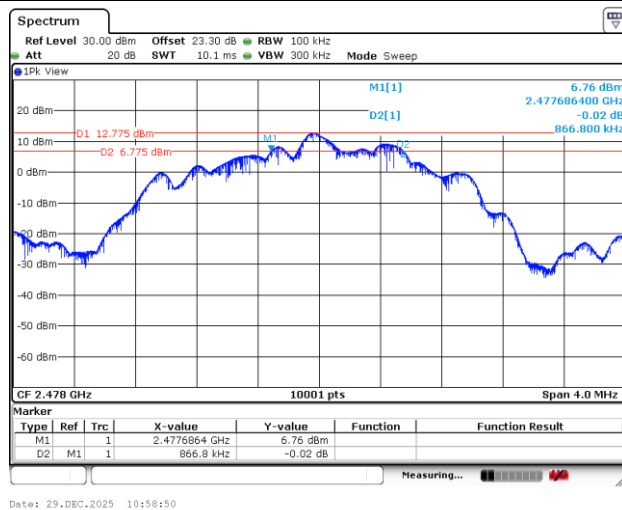
6 dB Bandwidth Plot on Channel 02



6 dB Bandwidth Plot on Channel 38

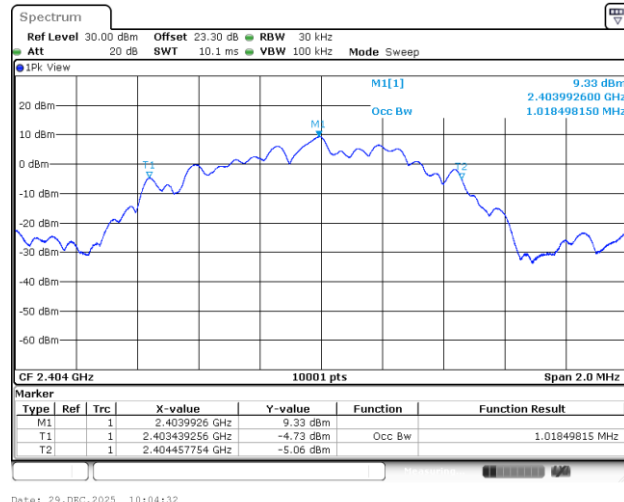
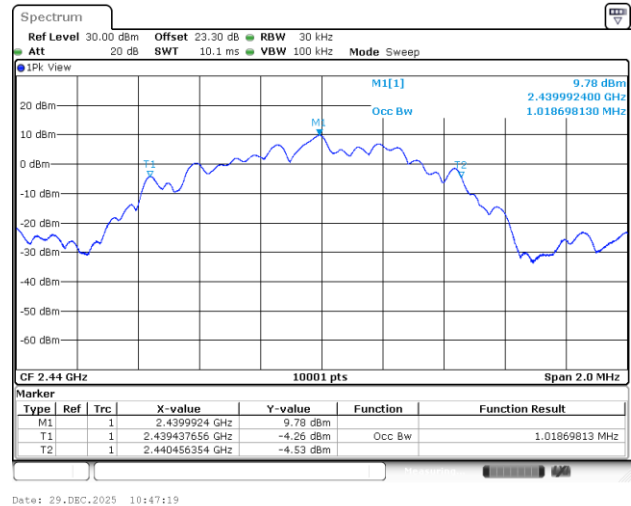
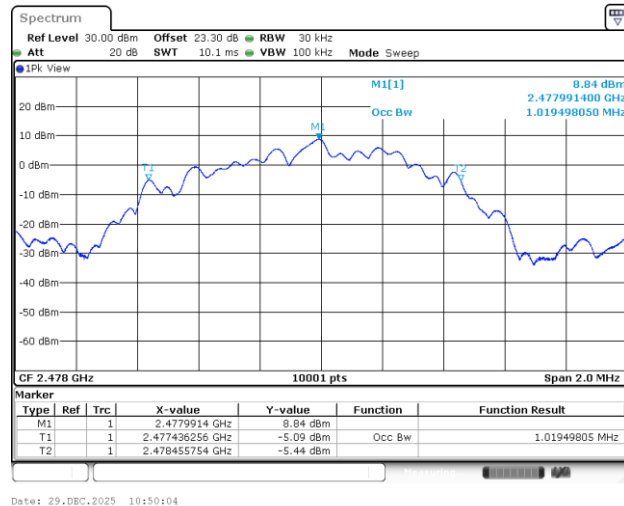


6 dB Bandwidth Plot on Channel 76



**99% Occupied Bandwidth**

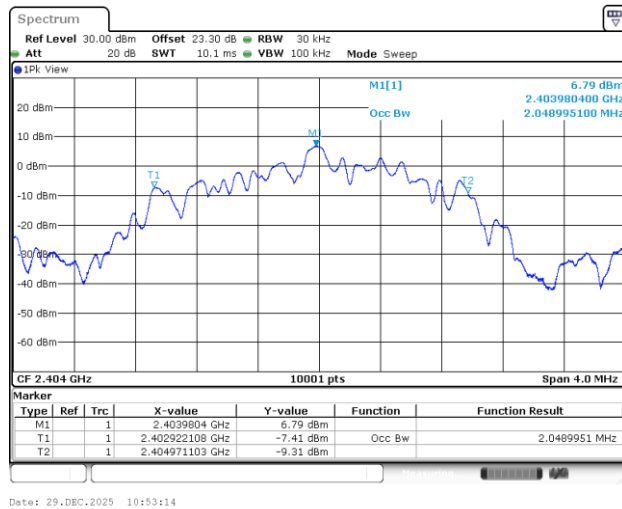
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99% Occupied Bandwidth Plot on Channel 02**99% Occupied Bandwidth Plot on Channel 38****99% Occupied Bandwidth Plot on Channel 76**

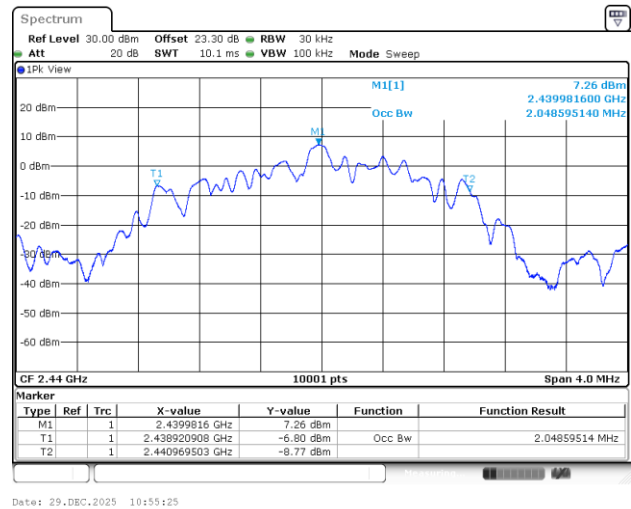


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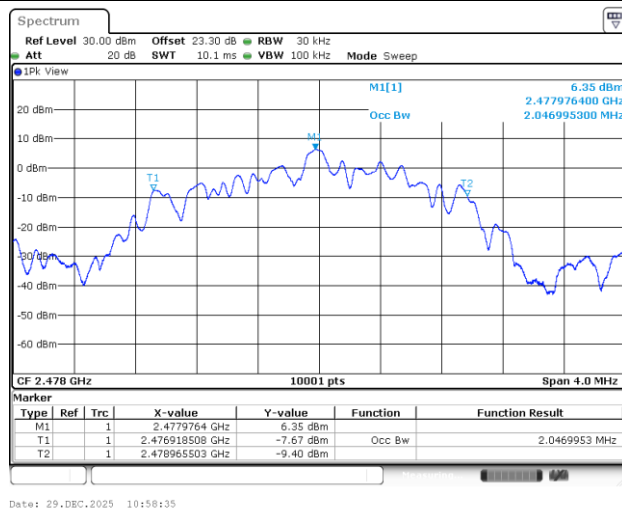
99% Occupied Bandwidth Plot on Channel 02



99% Occupied Bandwidth Plot on Channel 38

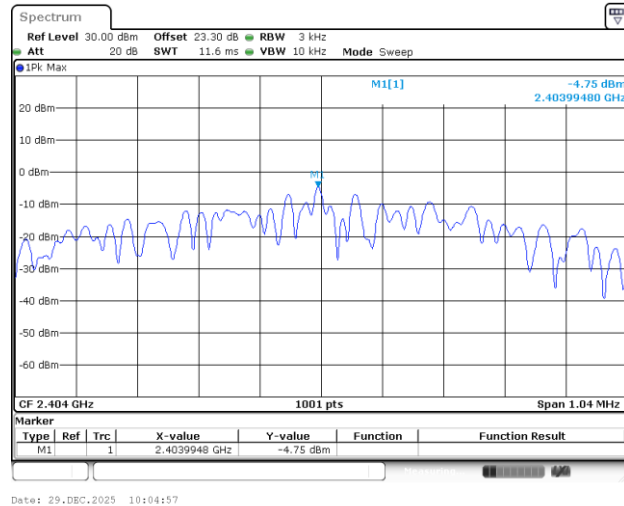
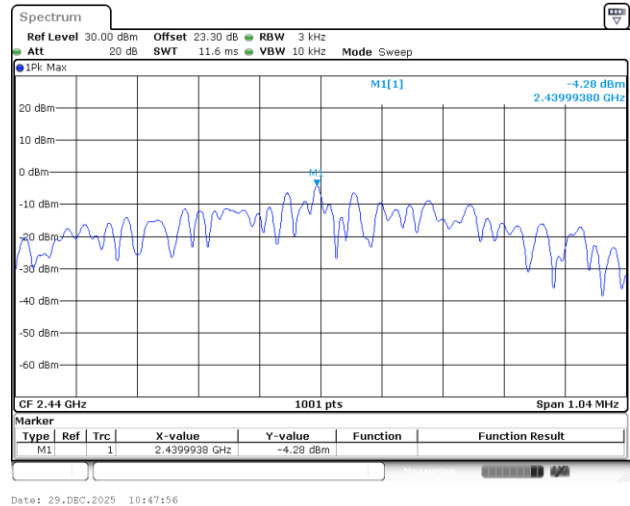
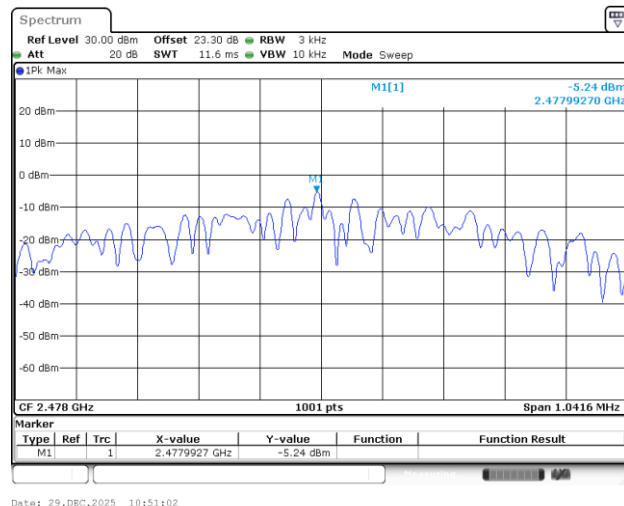


99% Occupied Bandwidth Plot on Channel 76



**Power Spectral Density (dBm/3kHz)**

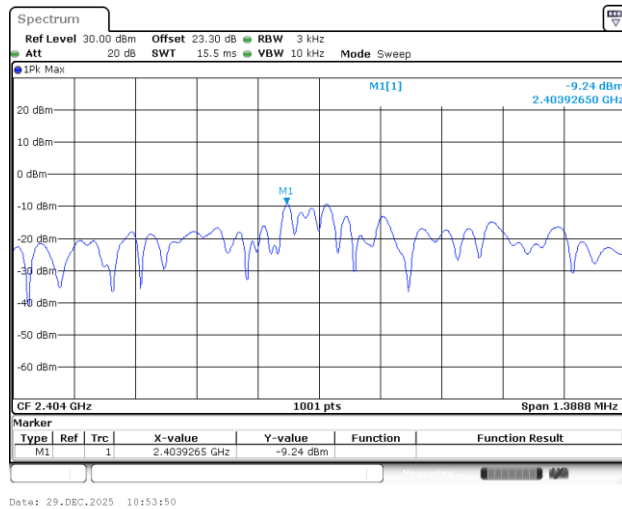
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Power Density (dBm/3kHz) Plot Channel 02**Power Density (dBm/3kHz) Plot Channel 38****Power Density (dBm/3kHz) Plot Channel 76**

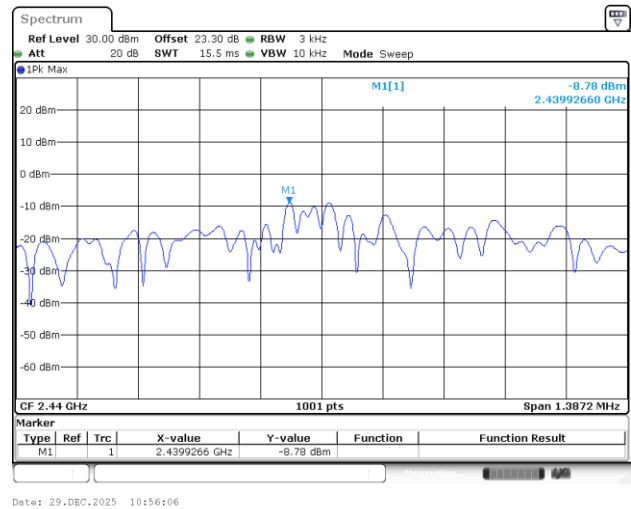


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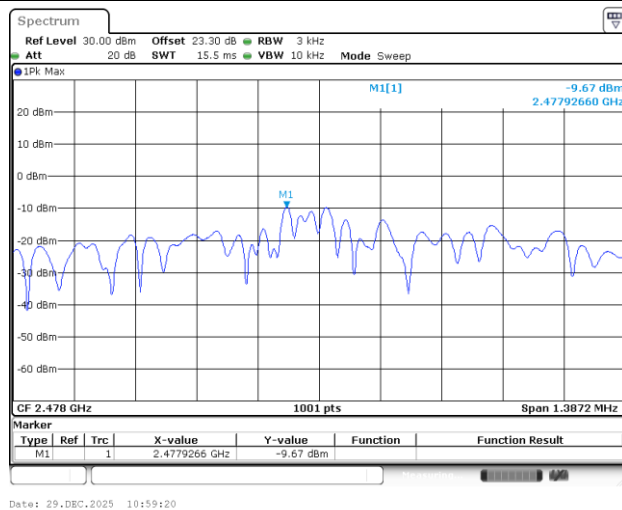
Power Density (dBm/3kHz) Plot Channel 02



Power Density (dBm/3kHz) Plot Channel 38

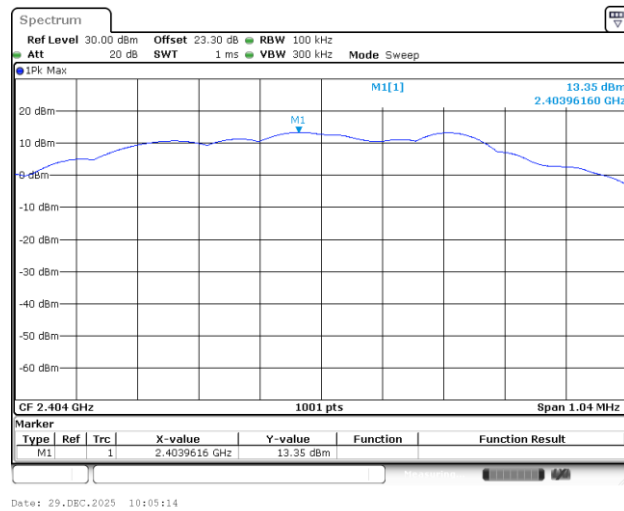
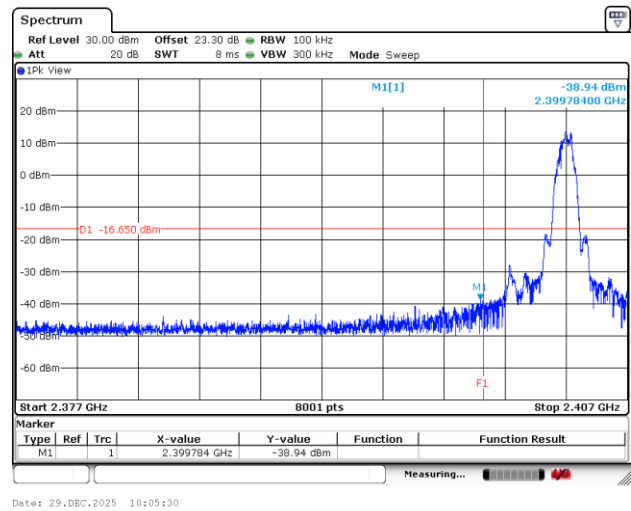
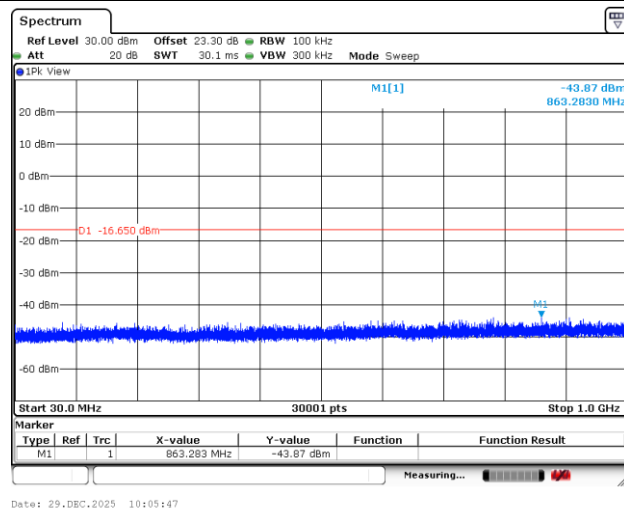
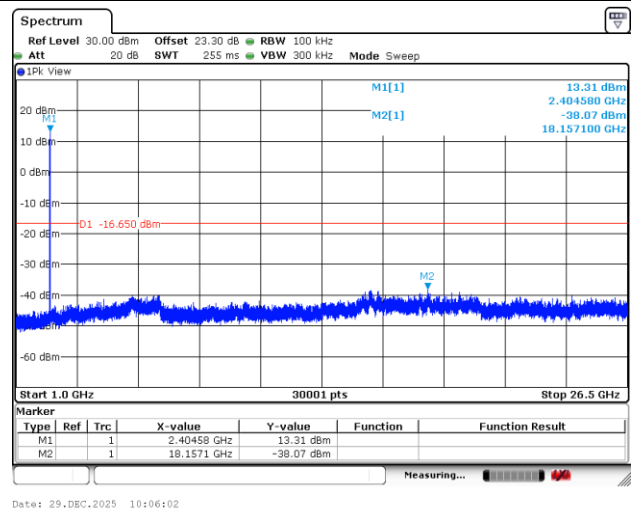


Power Density (dBm/3kHz) Plot Channel 76



**Band Edge and Conducted Spurious Emission**

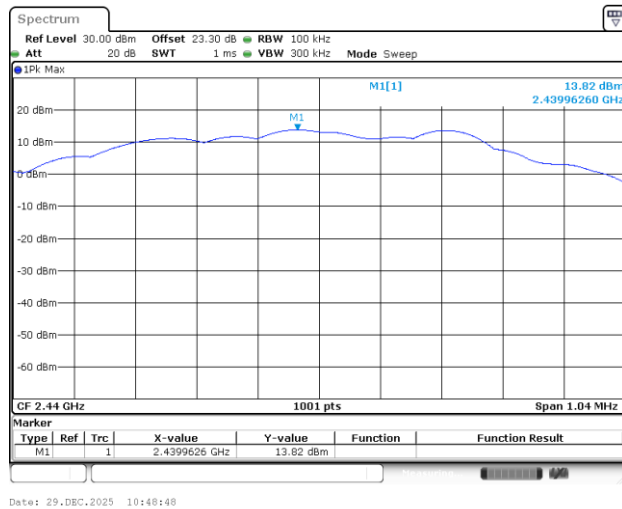
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Channel 02**100kHz PSD reference Level Plot****Plot on Channel 02****Spurious Emission 30MHz~1GHz Plot****Spurious Emission 1GHz~26.5GHz Plot**

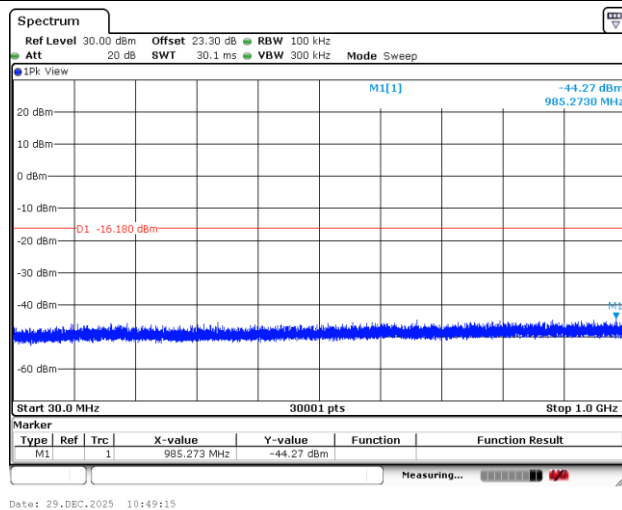


Channel 38

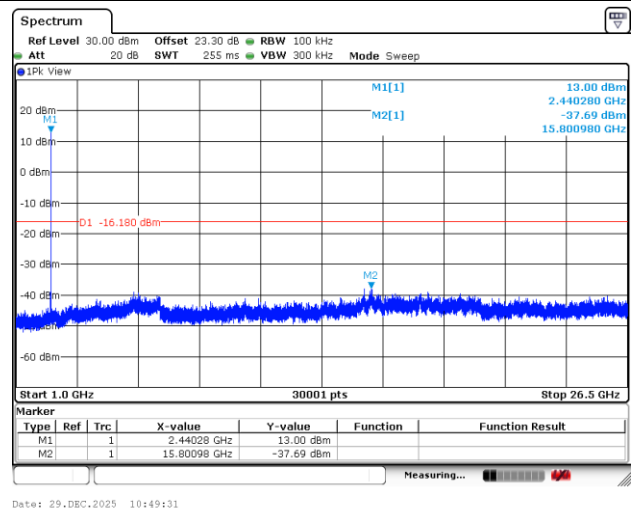
100kHz PSD reference Level Plot



Spurious Emission 30MHz~1GHz Plot



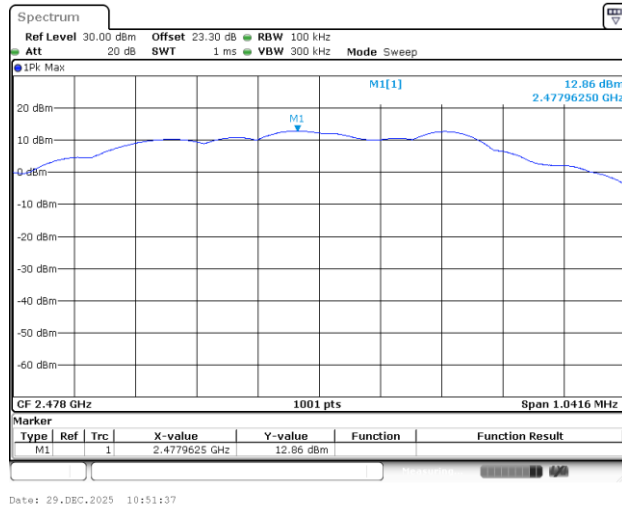
Spurious Emission 1GHz~26.5GHz Plot



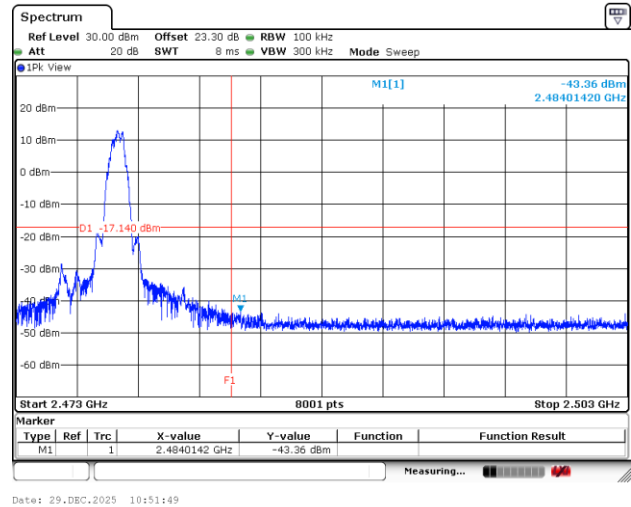


Channel 76

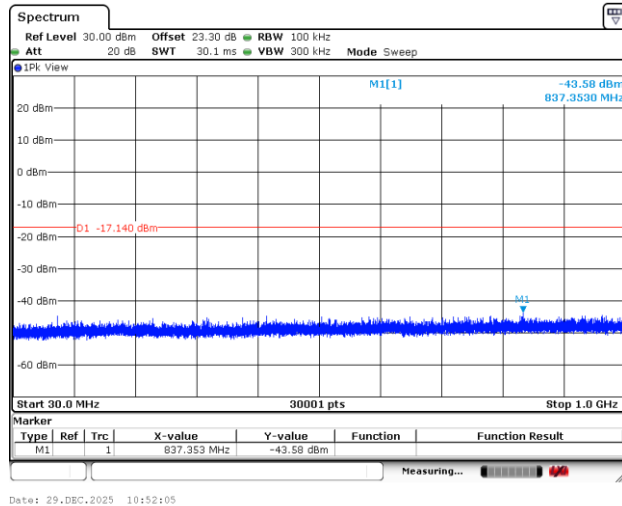
100kHz PSD reference Level Plot



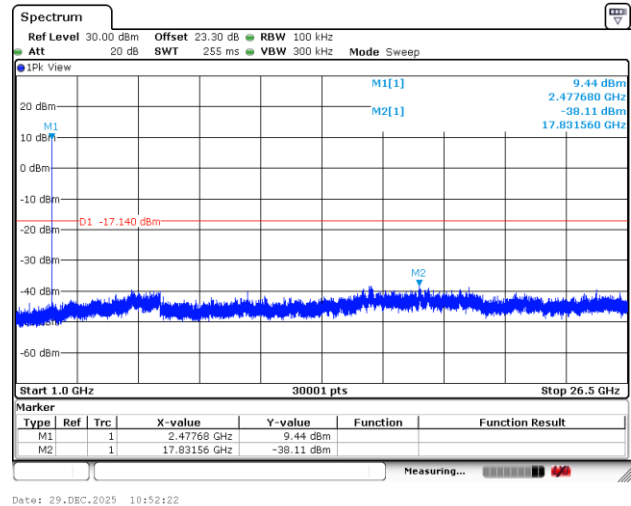
Plot on Channel 76



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot

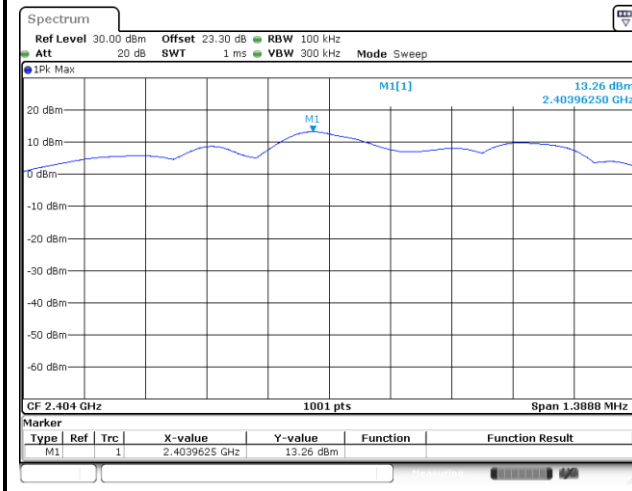




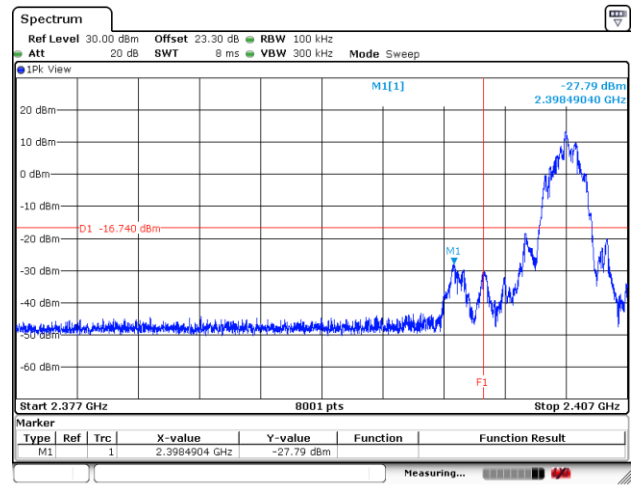
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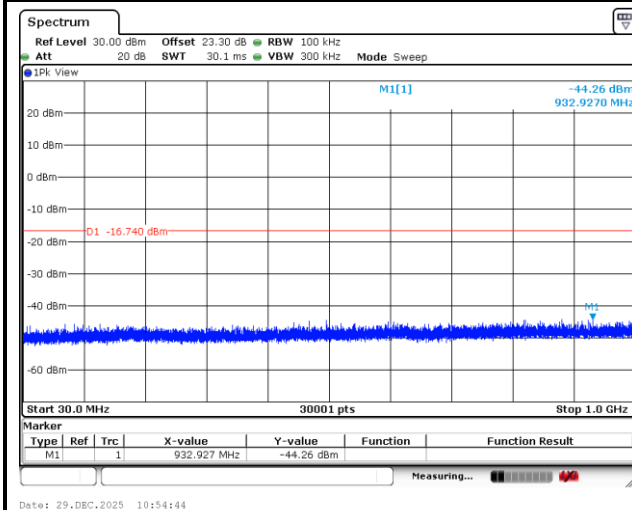
100kHz PSD reference Level Plot



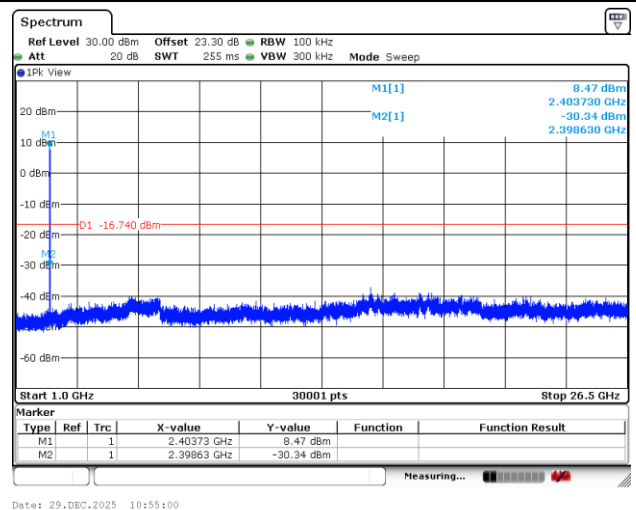
Plot on Channel 02



Spurious Emission 30MHz~1GHz Plot



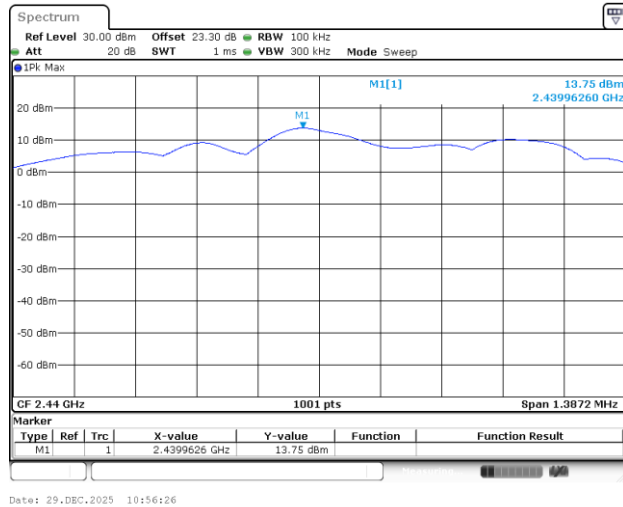
Spurious Emission 1GHz~26.5GHz Plot



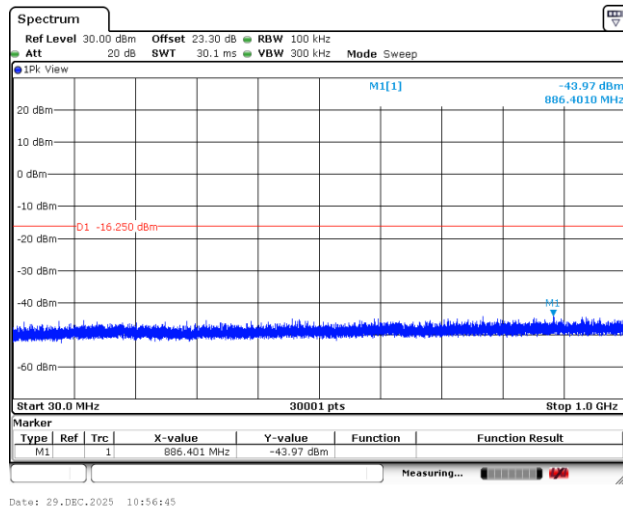


Channel 38

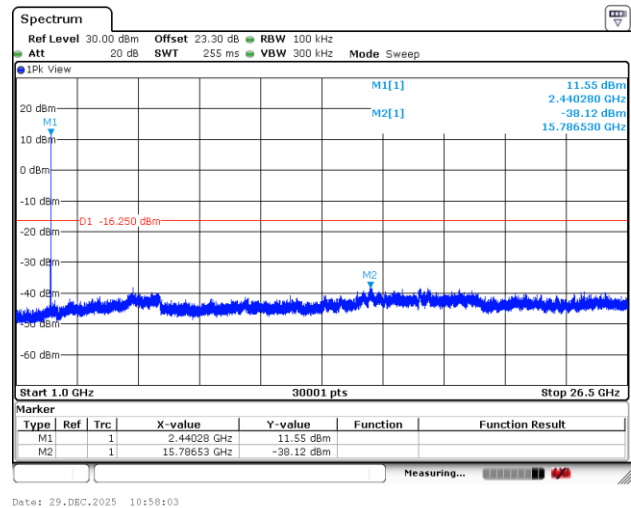
100kHz PSD reference Level Plot



Spurious Emission 30MHz~1GHz Plot



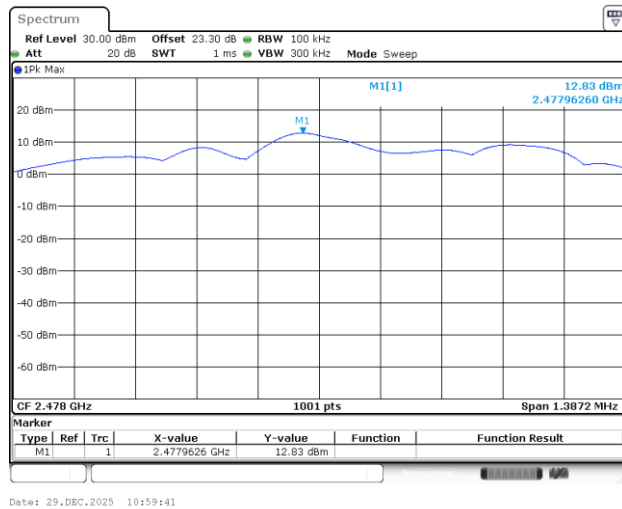
Spurious Emission 1GHz~26.5GHz Plot



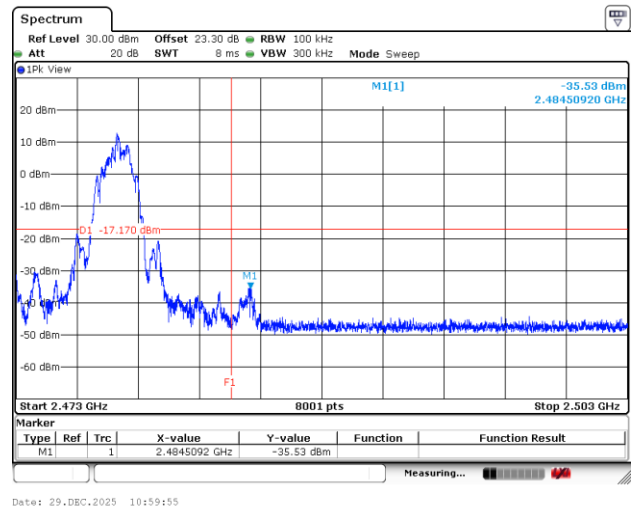


Channel 76

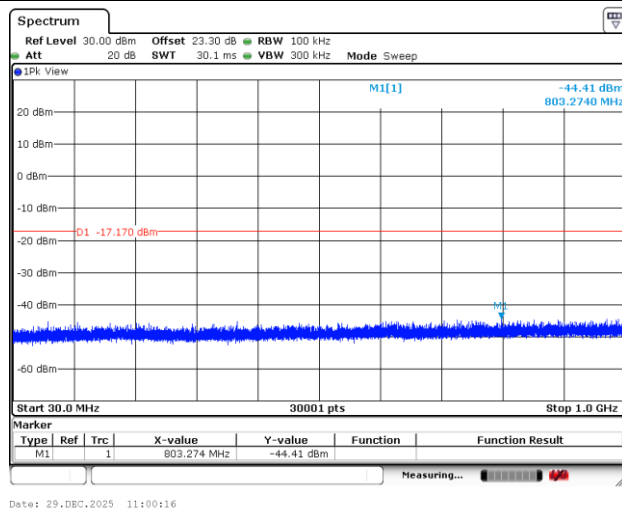
100kHz PSD reference Level Plot



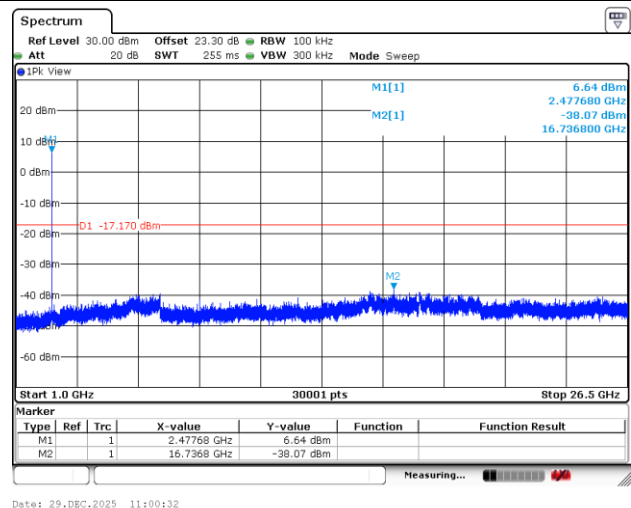
Plot on Channel 76



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot



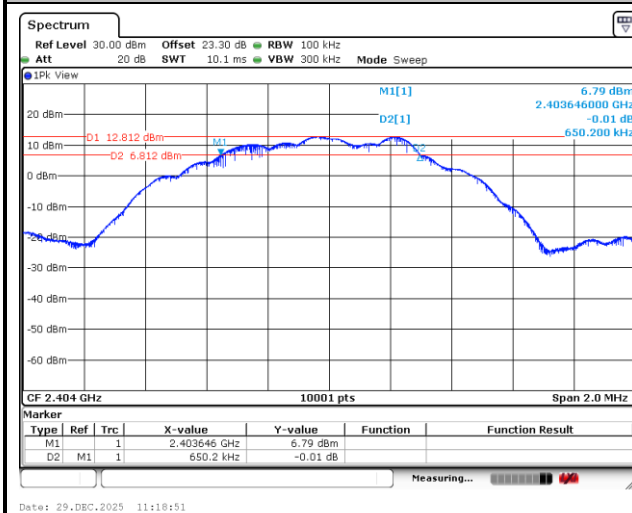


Number of TX = 2, Ant. 6 (Measured)

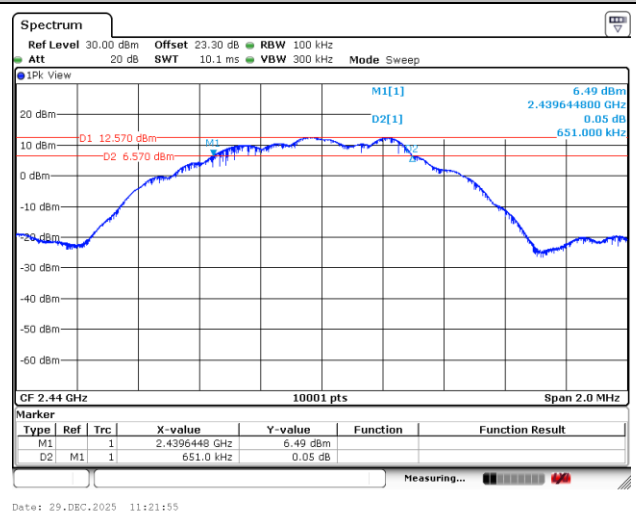
6dB Bandwidth

<GFSK-1M>

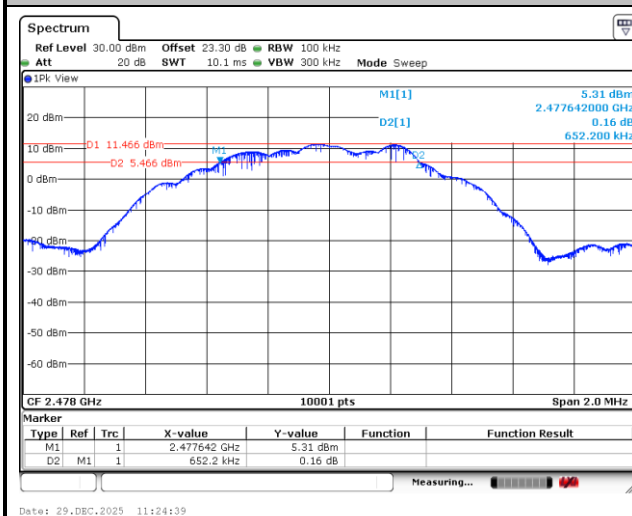
6 dB Bandwidth Plot on Channel 02



6 dB Bandwidth Plot on Channel 38



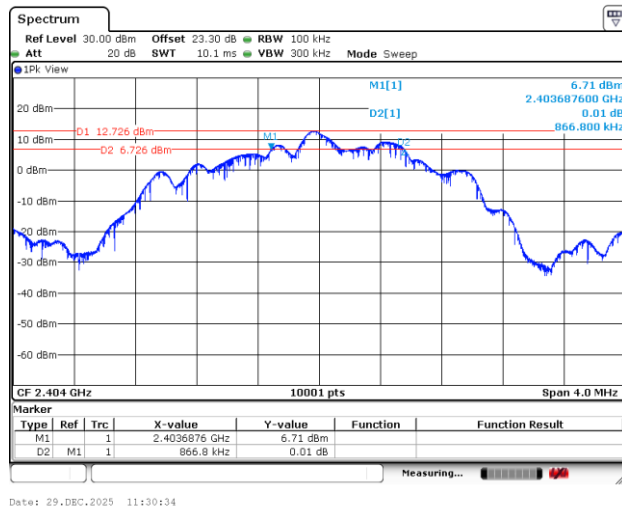
6 dB Bandwidth Plot on Channel 76



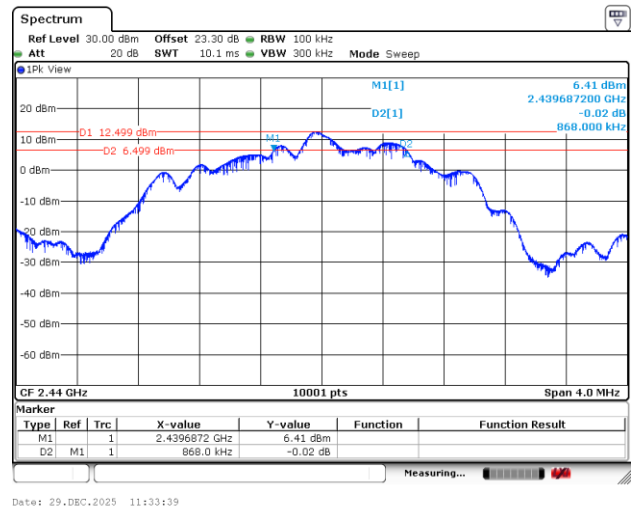


<GFSK-2M>

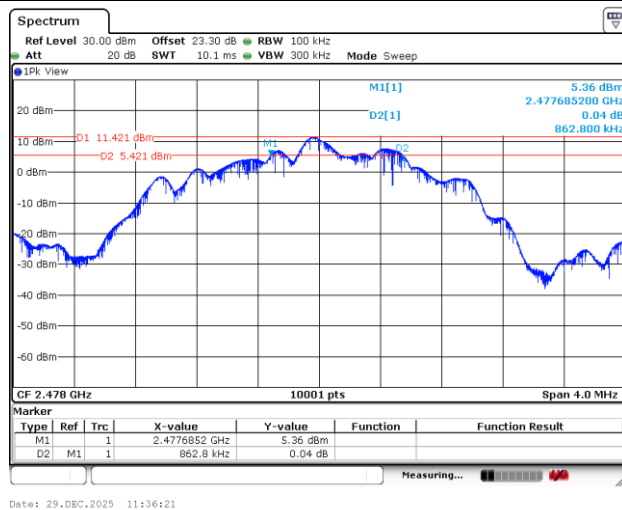
6 dB Bandwidth Plot on Channel 02



6 dB Bandwidth Plot on Channel 38

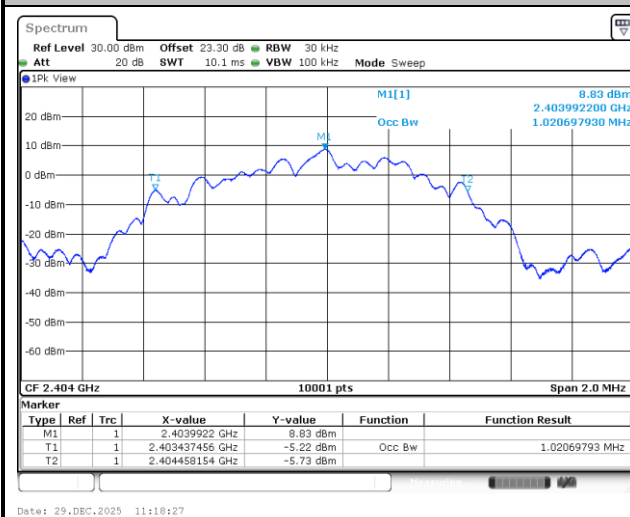
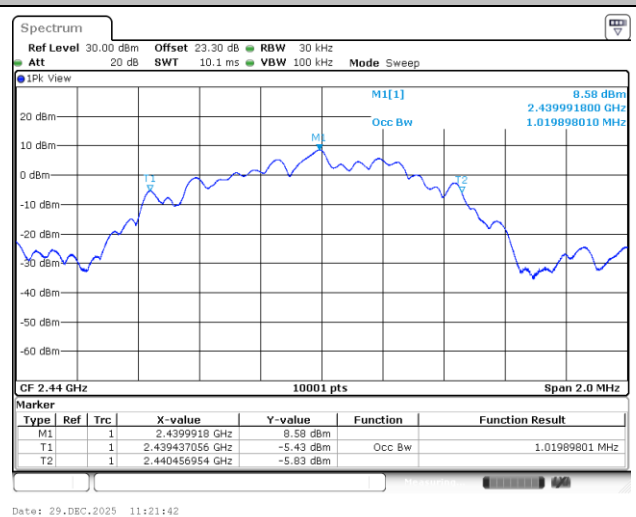
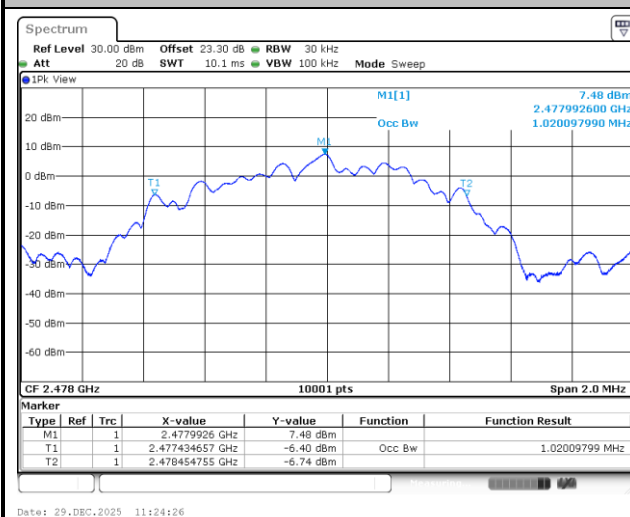


6 dB Bandwidth Plot on Channel 76



**99% Occupied Bandwidth**

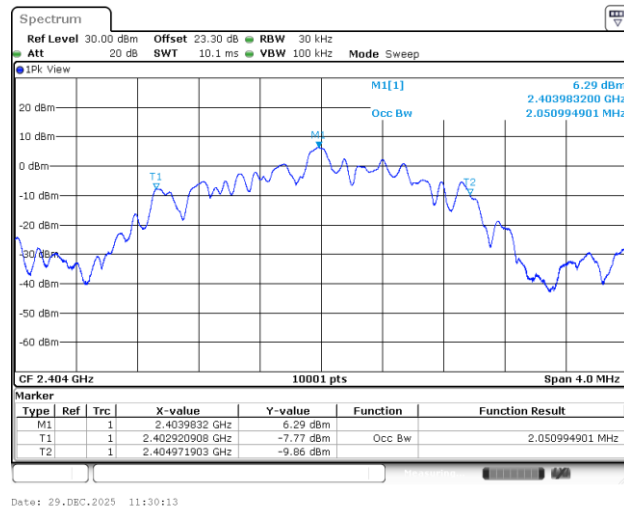
<GFSK-1M>

99% Occupied Bandwidth Plot on Channel 02**99% Occupied Bandwidth Plot on Channel 38****99% Occupied Bandwidth Plot on Channel 76**

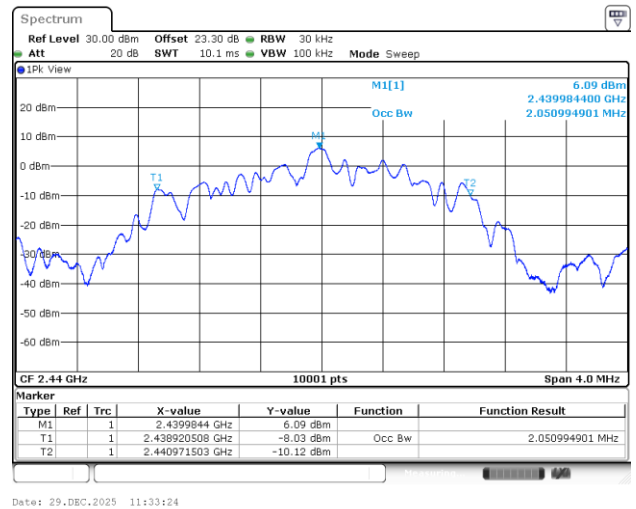


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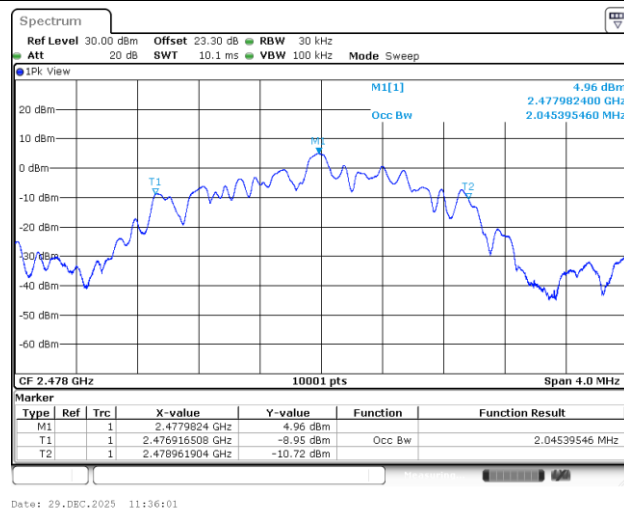
99% Occupied Bandwidth Plot on Channel 02



99% Occupied Bandwidth Plot on Channel 38

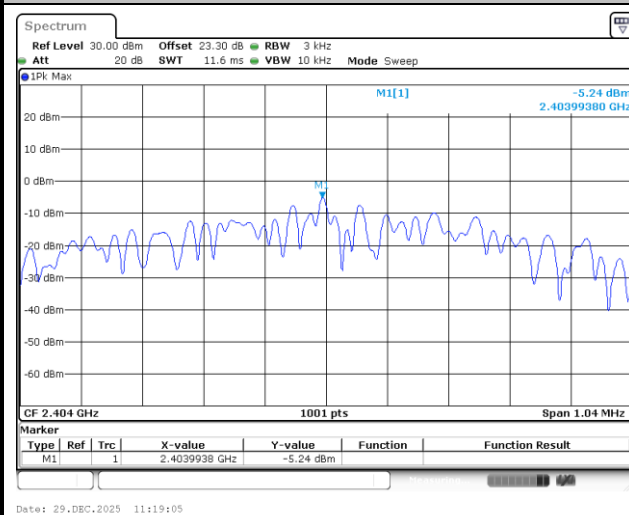
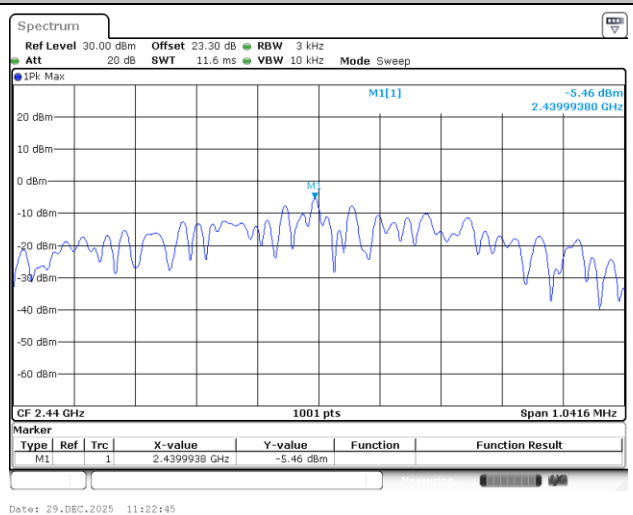
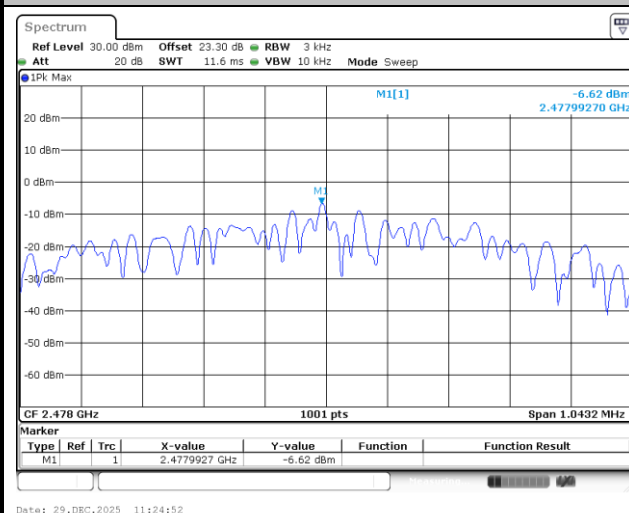


99% Occupied Bandwidth Plot on Channel 76



**Power Spectral Density (dBm/3kHz)**

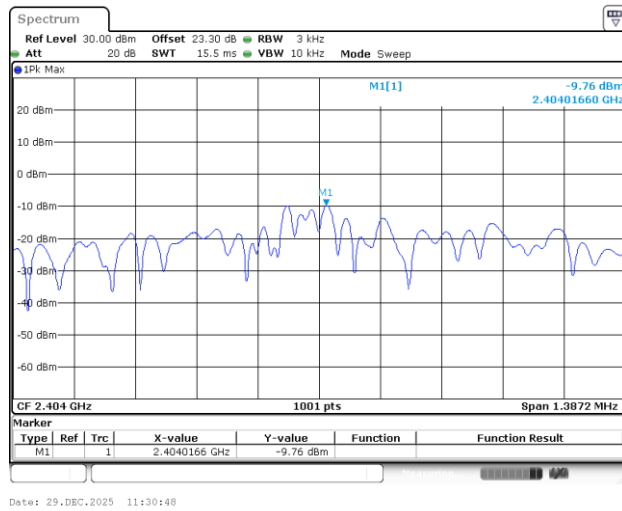
<GFSK-1M>

Power Density (dBm/3kHz) Plot Channel 02**Power Density (dBm/3kHz) Plot Channel 38****Power Density (dBm/3kHz) Plot Channel 76**

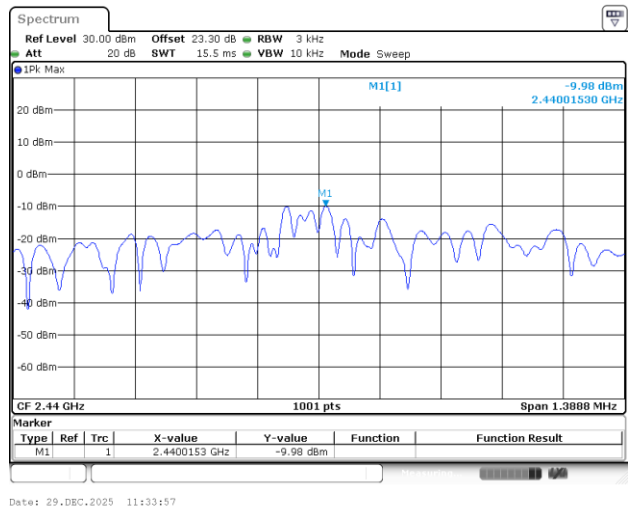


<GFSK-2M>

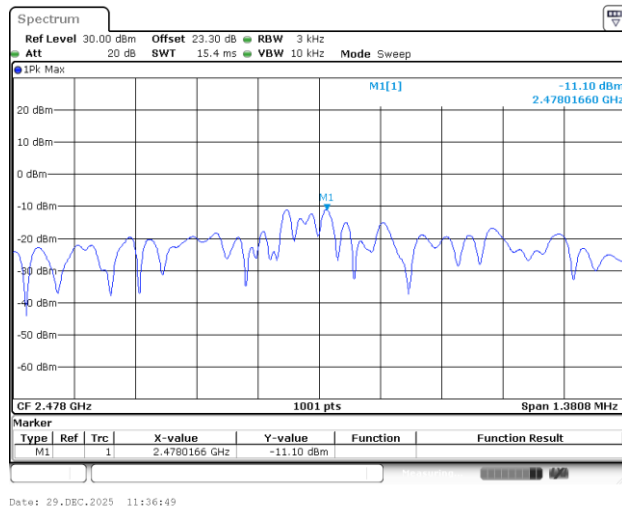
Power Density (dBm/3kHz) Plot Channel 02



Power Density (dBm/3kHz) Plot Channel 38

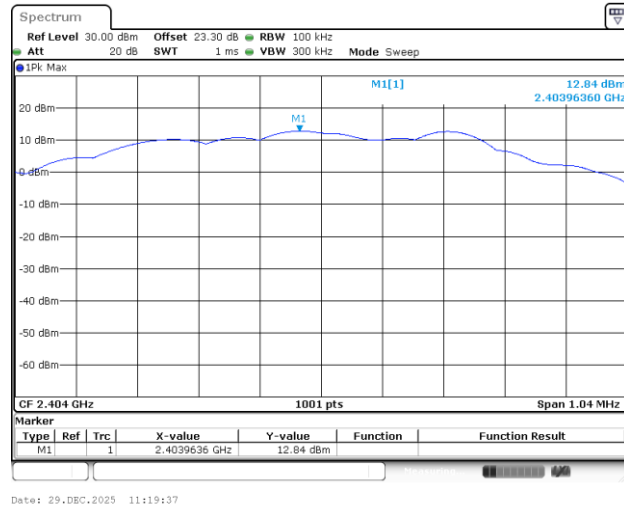
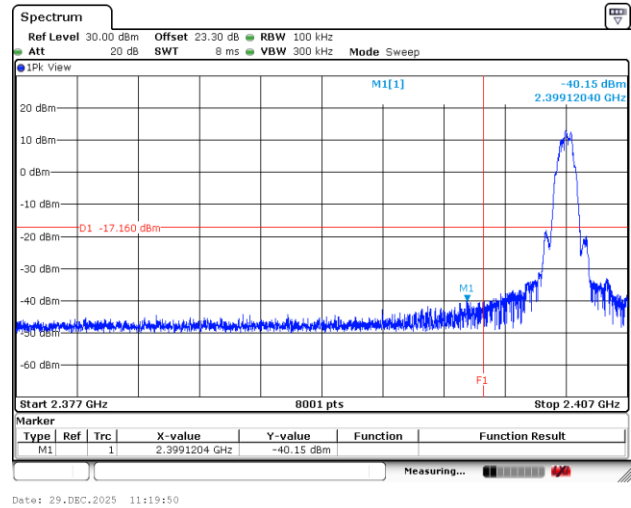
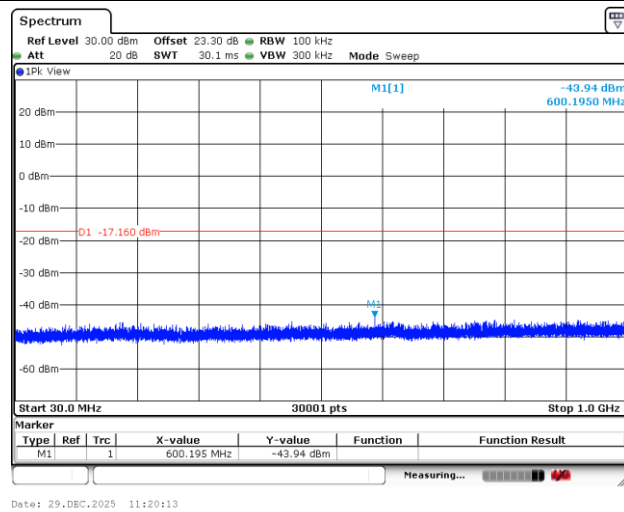
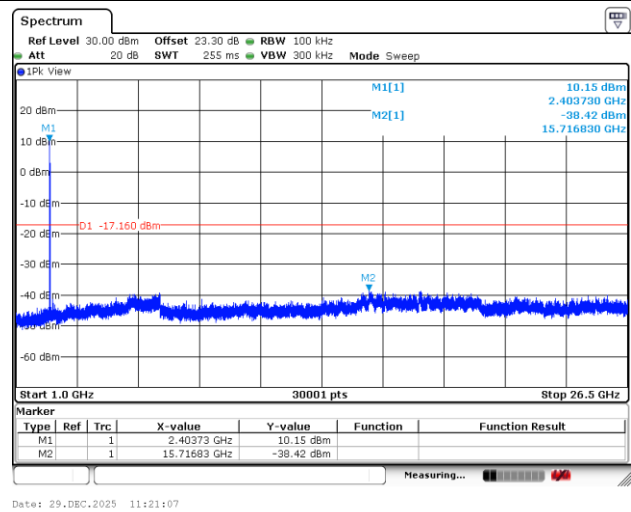


Power Density (dBm/3kHz) Plot Channel 76



**Band Edge and Conducted Spurious Emission**

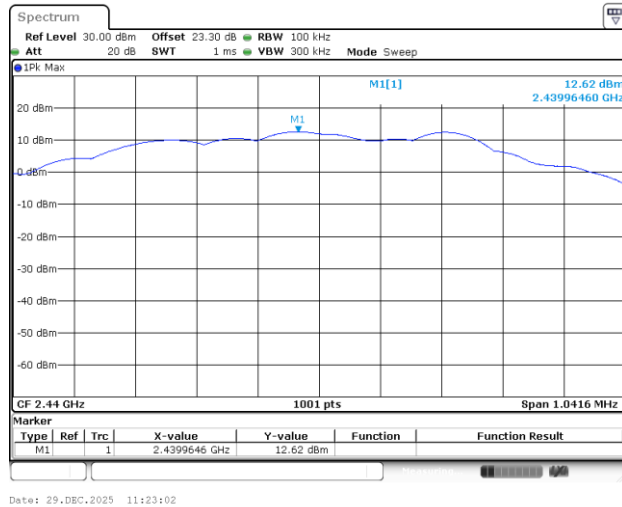
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Channel 02**100kHz PSD reference Level Plot****Plot on Channel 02****Spurious Emission 30MHz~1GHz Plot****Spurious Emission 1GHz~26.5GHz Plot**

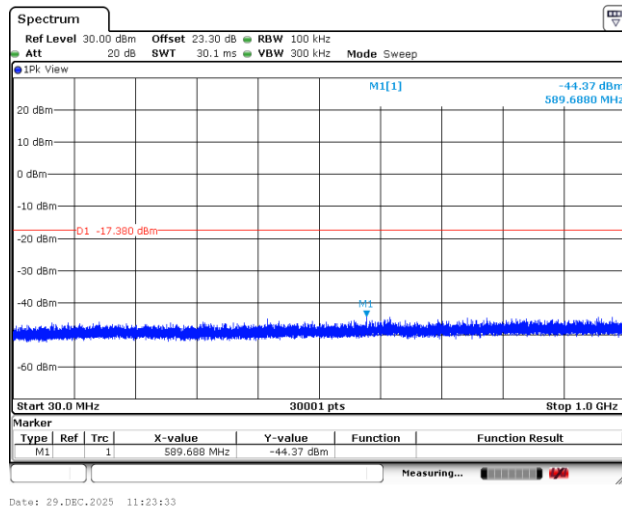


Channel 38

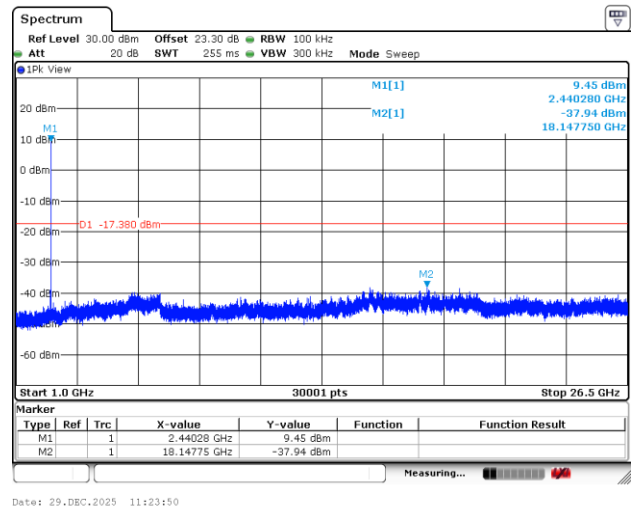
100kHz PSD reference Level Plot



Spurious Emission 30MHz~1GHz Plot



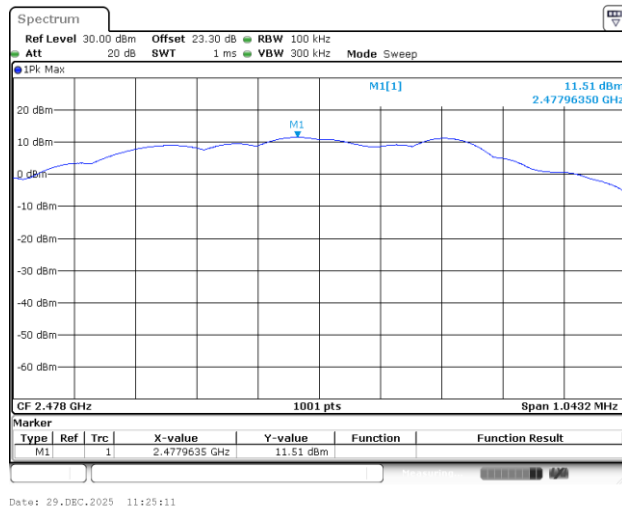
Spurious Emission 1GHz~26.5GHz Plot



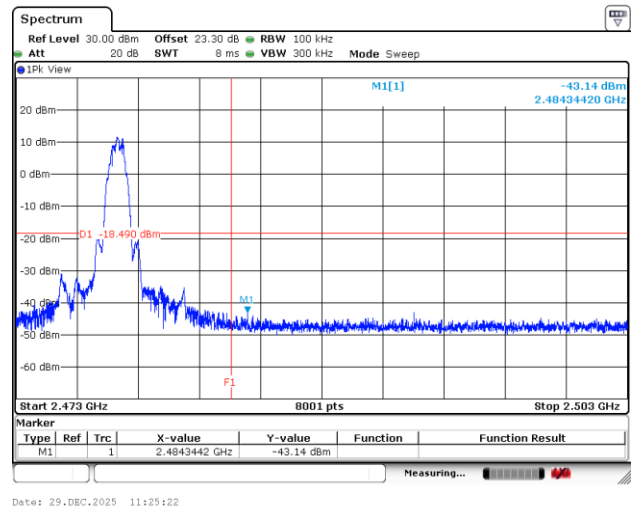


Channel 76

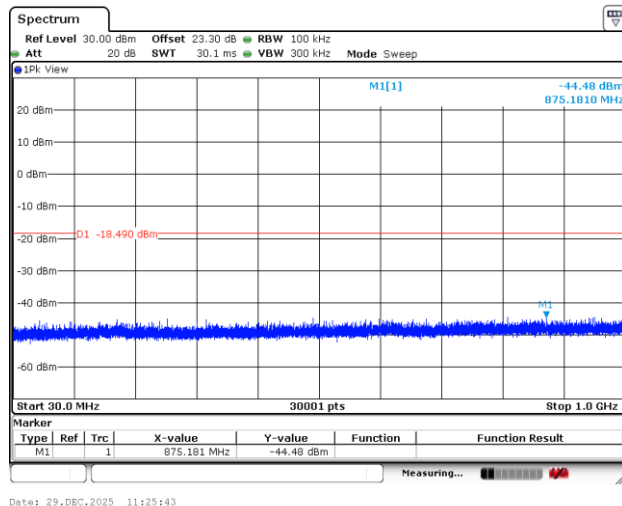
100kHz PSD reference Level Plot



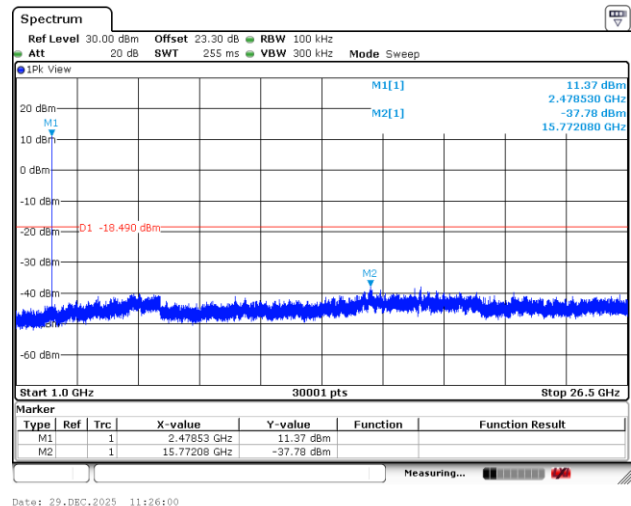
Plot on Channel 76



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot

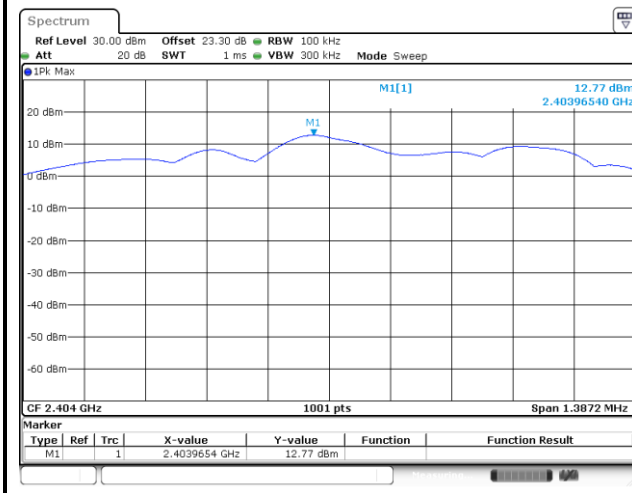




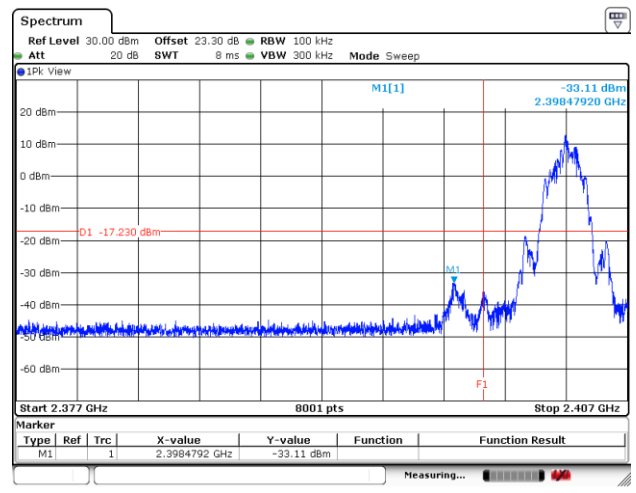
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Channel 02

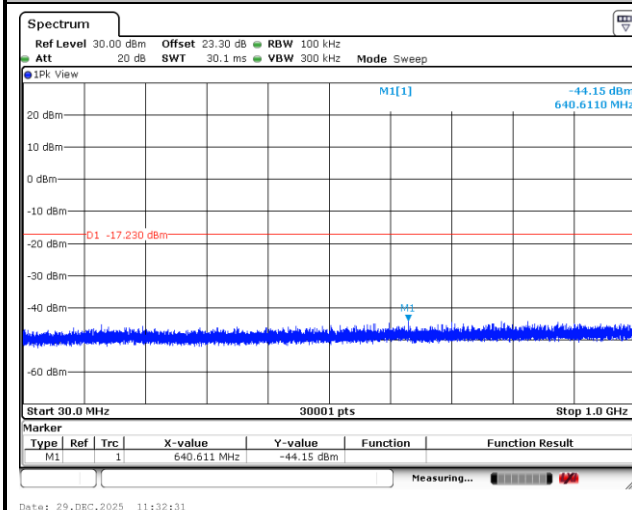
100kHz PSD reference Level Plot



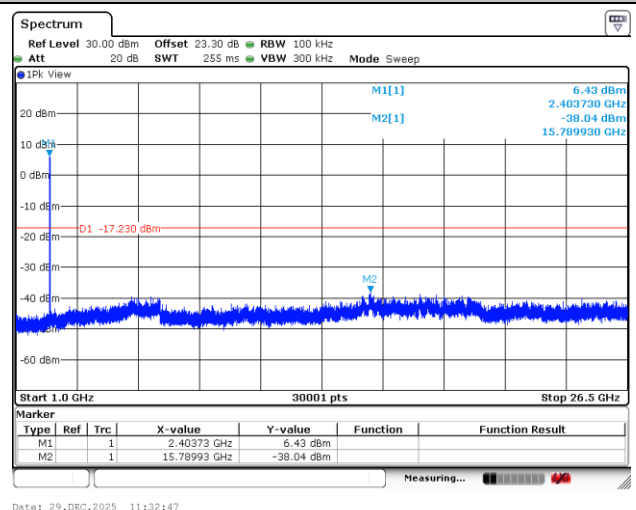
Plot on Channel 02



Spurious Emission 30MHz~1GHz Plot



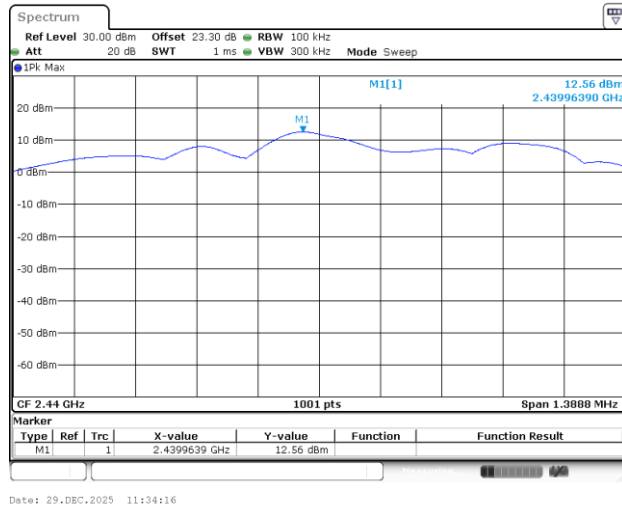
Spurious Emission 1GHz~26.5GHz Plot



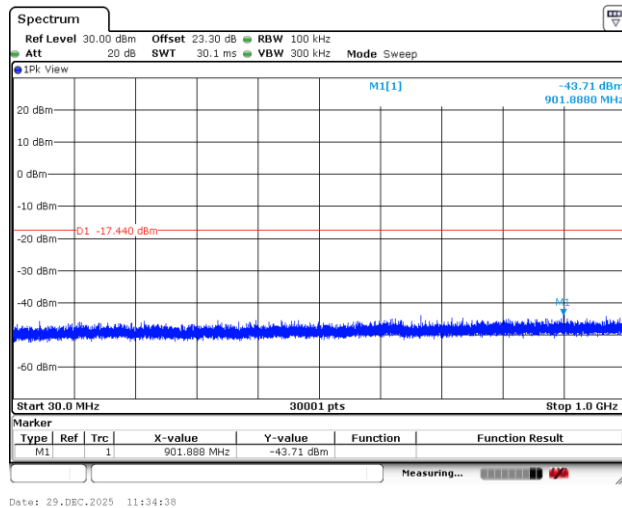


Channel 38

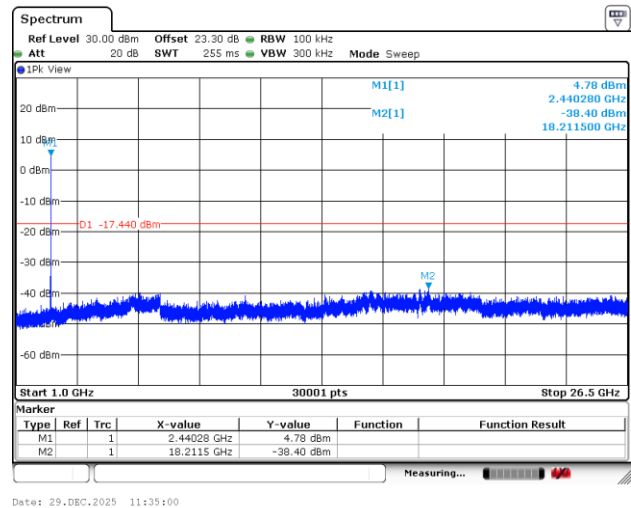
100kHz PSD reference Level Plot



Spurious Emission 30MHz~1GHz Plot



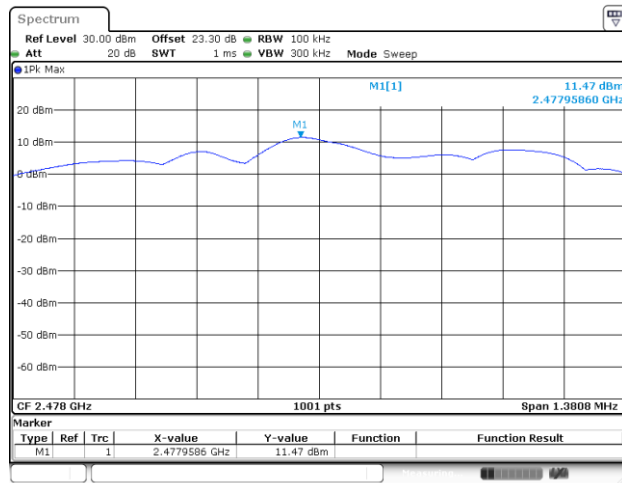
Spurious Emission 1GHz~26.5GHz Plot



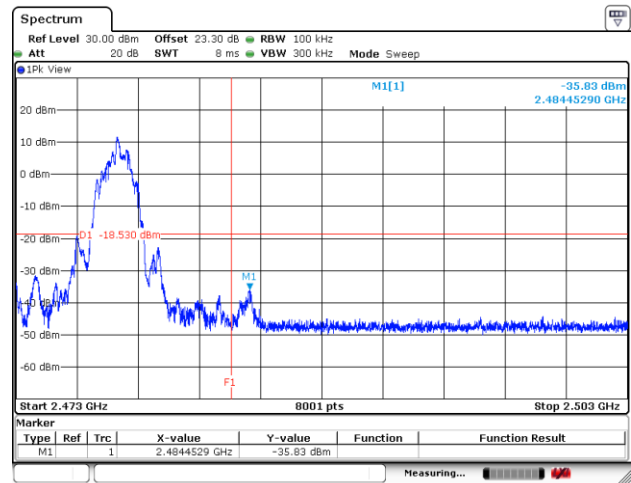


Channel 76

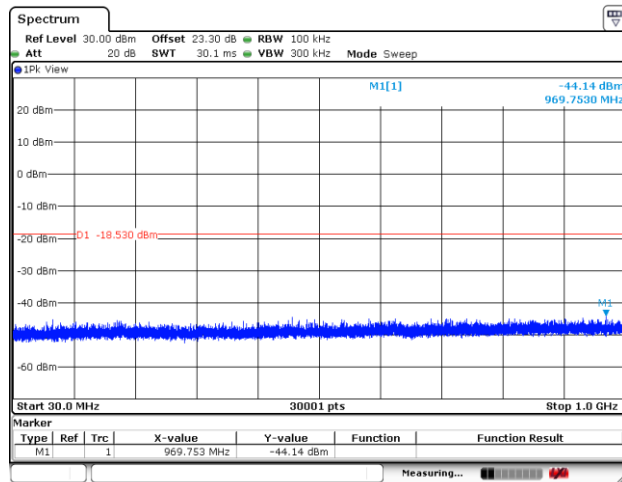
100kHz PSD reference Level Plot



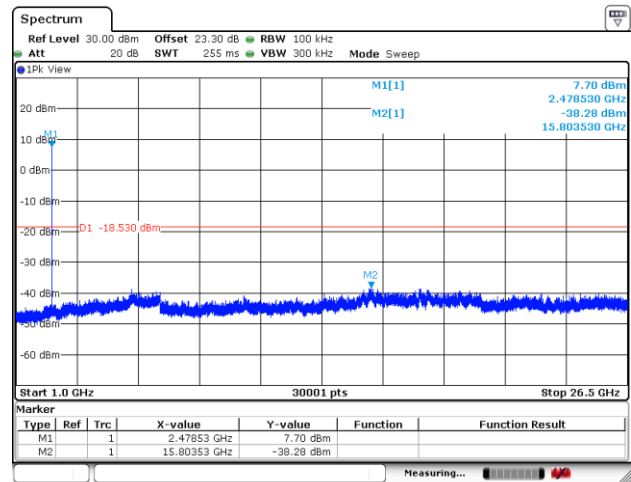
Plot on Channel 76



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot





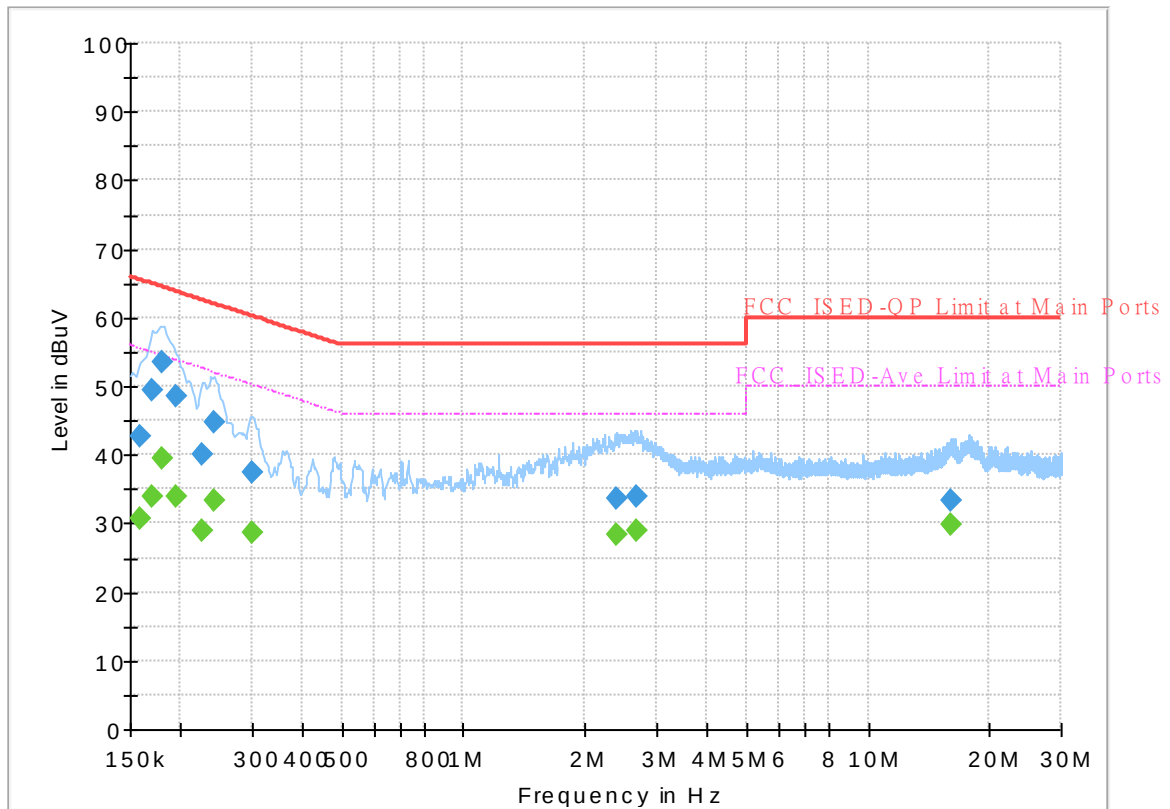
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Brian Chen	Temperature :	23.0 ~ 26.0°C
		Relative Humidity :	45.0 ~ 55.0%

EUT Information

Report NO : 5O3114
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



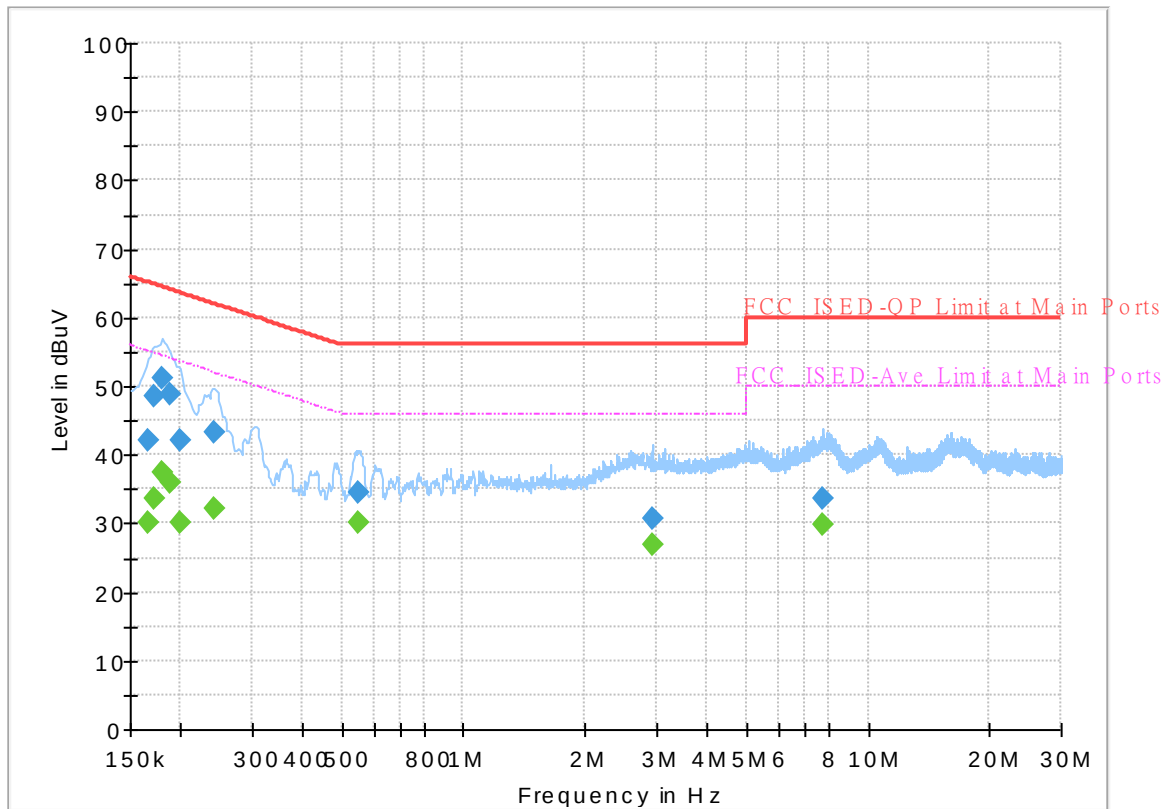
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	30.65	55.52	24.87	L1	OFF	19.8
0.159000	42.81	---	65.52	22.71	L1	OFF	19.8
0.170250	---	33.81	54.95	21.14	L1	OFF	19.8
0.170250	49.29	---	64.95	15.66	L1	OFF	19.8
0.179250	---	39.42	54.52	15.10	L1	OFF	19.8
0.179250	53.54	---	64.52	10.98	L1	OFF	19.8
0.195000	---	34.05	53.82	19.77	L1	OFF	19.8
0.195000	48.43	---	63.82	15.39	L1	OFF	19.8
0.226500	---	28.86	52.58	23.72	L1	OFF	19.8
0.226500	40.13	---	62.58	22.45	L1	OFF	19.8
0.242250	---	33.19	52.02	18.83	L1	OFF	19.8
0.242250	44.83	---	62.02	17.19	L1	OFF	19.8
0.300750	---	28.58	50.22	21.64	L1	OFF	19.8
0.300750	37.43	---	60.22	22.79	L1	OFF	19.8
2.377500	---	28.47	46.00	17.53	L1	OFF	19.9
2.377500	33.58	---	56.00	22.42	L1	OFF	19.9
2.674500	---	28.99	46.00	17.01	L1	OFF	19.9
2.674500	33.87	---	56.00	22.13	L1	OFF	19.9
15.987750	---	29.92	50.00	20.08	L1	OFF	20.6
15.987750	33.42	---	60.00	26.58	L1	OFF	20.6

EUT Information

Report NO : 5O3114
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.165750	---	30.05	55.17	25.12	N	OFF	19.8
0.165750	42.22	---	65.17	22.95	N	OFF	19.8
0.172500	---	33.71	54.84	21.13	N	OFF	19.8
0.172500	48.58	---	64.84	16.26	N	OFF	19.8
0.179250	---	37.57	54.52	16.95	N	OFF	19.8
0.179250	51.28	---	64.52	13.24	N	OFF	19.8
0.188250	---	35.88	54.11	18.23	N	OFF	19.8
0.188250	48.85	---	64.11	15.26	N	OFF	19.8
0.199500	---	30.06	53.63	23.57	N	OFF	19.8
0.199500	42.17	---	63.63	21.46	N	OFF	19.8
0.242250	---	32.28	52.02	19.74	N	OFF	19.8
0.242250	43.25	---	62.02	18.77	N	OFF	19.8
0.552750	---	30.07	46.00	15.93	N	OFF	19.8
0.552750	34.43	---	56.00	21.57	N	OFF	19.8
2.919750	---	26.96	46.00	19.04	N	OFF	20.0
2.919750	30.73	---	56.00	25.27	N	OFF	20.0
7.770750	---	29.72	50.00	20.28	N	OFF	20.3
7.770750	33.66	---	60.00	26.34	N	OFF	20.3



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Jesse Wang, Stan Hsieh, Ken Wu	Temperature :	21.2~26.3°C
		Relative Humidity :	47.4~68.6%

Note symbol

-L	Low channel location
-R	High channel location



C1. Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 30	2400-2483.5	7+6	BLE CS_GFSK	02	2404	1Mbps	-	-
Mode 31	2400-2483.5	7+6	BLE CS_GFSK	38	2440	1Mbps	-	-
Mode 32	2400-2483.5	7+6	BLE CS_GFSK	76	2478	1Mbps	-	-
Mode 33	2400-2483.5	7+6	BLE CS_GFSK	02	2404	2Mbps	-	-
Mode 34	2400-2483.5	7+6	BLE CS_GFSK	38	2440	2Mbps	-	-
Mode 35	2400-2483.5	7+6	BLE CS_GFSK	76	2478	2Mbps	-	-
Mode 43	2400-2483.5	7+6	BLE CS_GFSK	02	2404	2Mbps	-	LF



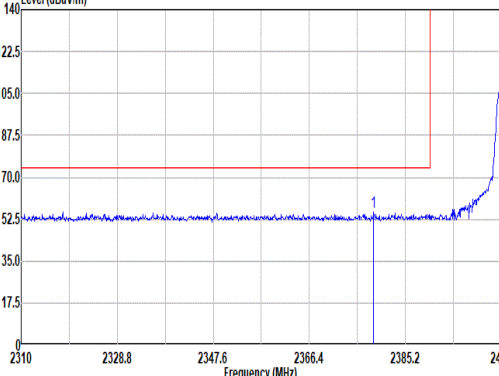
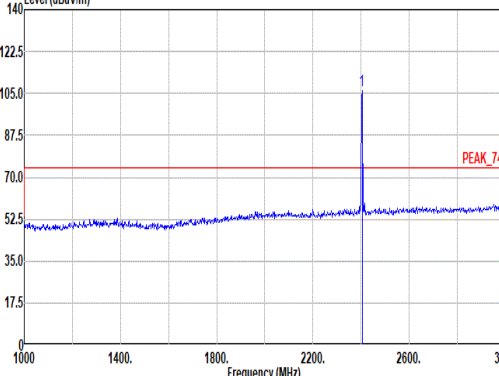
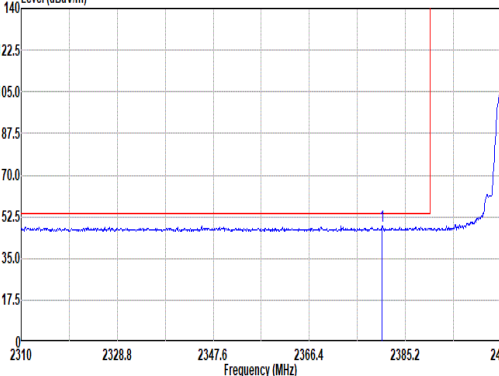
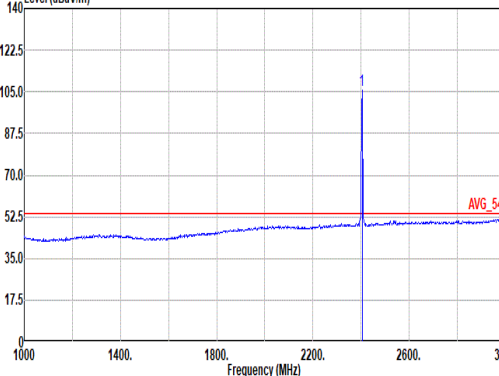
C2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
30	BLE CS_GFSK	02	2380.69	48.60	54.00	-5.40	H	Avg.	Pass	-	Band Edge
	BLE CS_GFSK	02	4808.00	42.24	74.00	-31.76	V	Peak	Pass	-	Harmonic
31	BLE CS_GFSK	38	2498.14	48.73	54.00	-5.27	V	Avg.	Pass	-	Band Edge
	BLE CS_GFSK	38	4880.00	43.27	74.00	-30.73	H	Peak	Pass	-	Harmonic
32	BLE CS_GFSK	76	2483.65	50.26	54.00	-3.74	H	Avg.	Pass	-	Band Edge
	BLE CS_GFSK	76	7434.00	42.49	74.00	-31.51	H	Peak	Pass	-	Harmonic
33	BLE CS_GFSK	02	2389.43	51.51	54.00	-2.49	V	Avg.	Pass	-	Band Edge
	BLE CS_GFSK	02	4808.00	42.32	74.00	-31.68	H	Peak	Pass	-	Harmonic
34	BLE CS_GFSK	38	2483.68	50.14	54.00	-3.86	H	Avg.	Pass	-	Band Edge
	BLE CS_GFSK	38	4880.00	42.60	74.00	-31.40	H	Peak	Pass	-	Harmonic

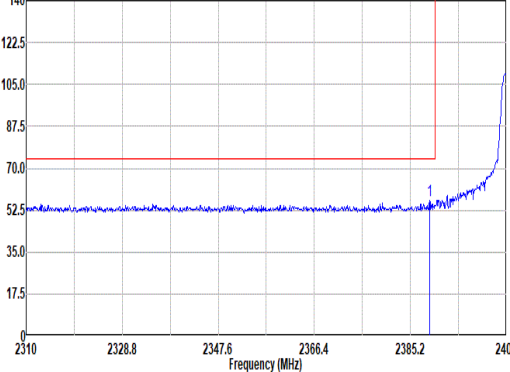
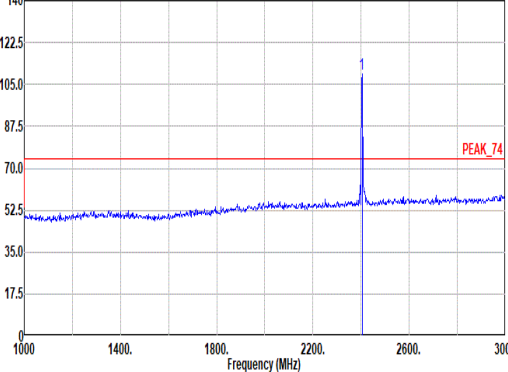
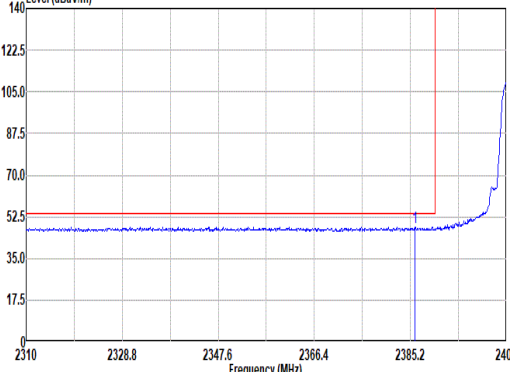
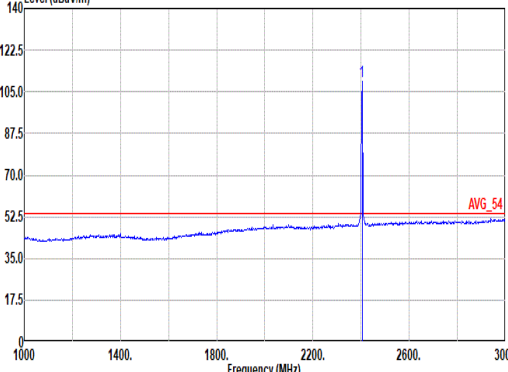


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
35	BLE CS_GFSK	76	2484.09	50.90	54.00	-3.10	H	Avg.	Pass	-	Band Edge
	BLE CS_GFSK	76	4956.00	42.40	74.00	-31.60	H	Peak	Pass	-	Harmonic
43	LF	02	53.28	29.51	40.00	-10.49	V	Peak	Pass	-	LF



Mode	30																																																																																		
	Band Edge																																																																																		
	2400-2483.5_BLE_CS_GFSK_CH02_2404MHz																																																																																		
ANT	7+6																																																																																		
Pol.	Horizontal						Fundamental																																																																												
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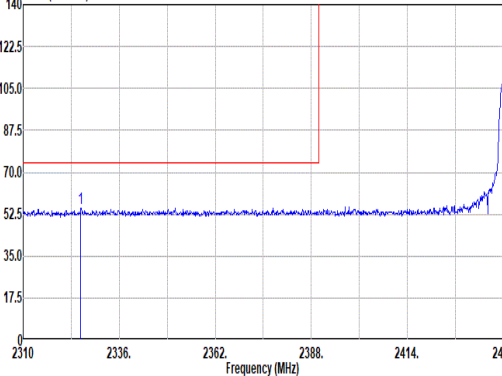
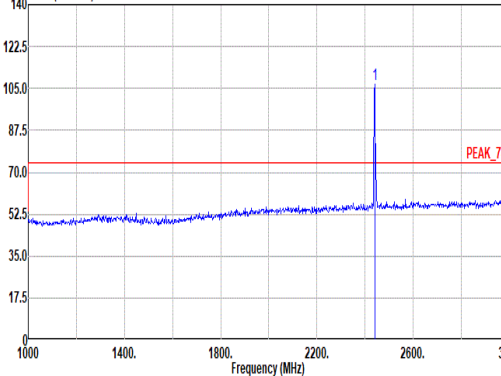
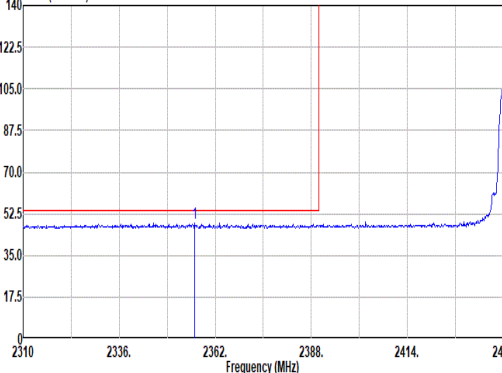
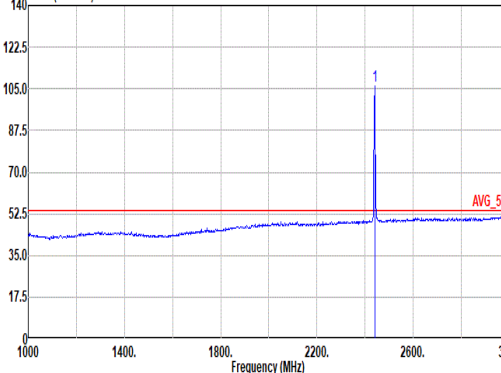


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Peak Avg	Date: 2025-12-18 Site : 03CH07-HY Condition: PEAK_74 3m HF_ANT_00066584 HORIZONTAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4800.00</td><td>41.71</td><td>74.00</td><td>-32.29</td><td>52.75</td><td>34.38</td><td>11.93</td><td>58.40</td><td>1.05</td><td>--</td><td>--</td><td>Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	4800.00	41.71	74.00	-32.29	52.75	34.38	11.93	58.40	1.05	--	--	Peak	Date: 2025-12-18 Site : 03CH07-HY Condition: PEAK_74 3m HF_ANT_00066584 VERTICAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4800.00</td><td>42.24</td><td>74.00</td><td>-31.76</td><td>53.28</td><td>34.38</td><td>11.93</td><td>58.40</td><td>1.05</td><td>--</td><td>--</td><td>Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	4800.00	42.24	74.00	-31.76	53.28	34.38	11.93	58.40	1.05	--	--	Peak
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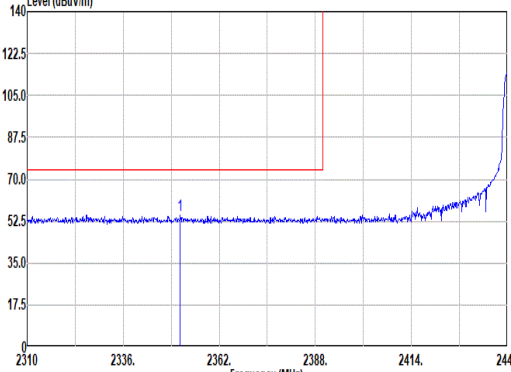
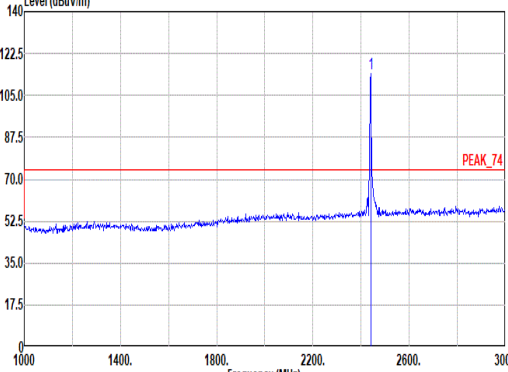
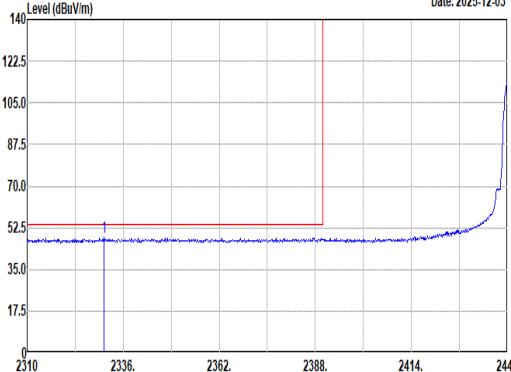
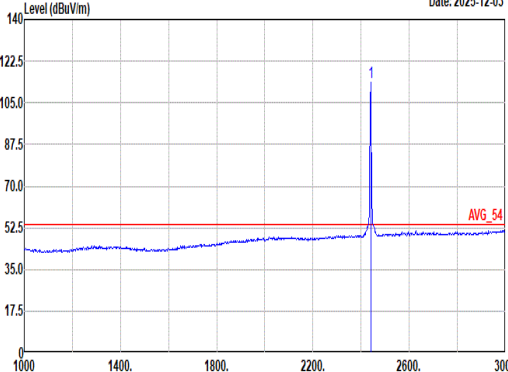


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