



FCC RF Test Report

APPLICANT : CHEP
EQUIPMENT : Asset Tracker
BRAND NAME : CHEP
MODEL NAME : Ultra Scout1
FCC ID : 2APRD-ULTRASCOUT1
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Jul. 01, 2025 ~ Jul. 15, 2025

We, Sporton International Inc. (ShenZhen), 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 of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Fly Liang

Approved by: Fly Liang



Sporton International Inc. (ShenZhen)

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People's Republic of China



TABLE OF CONTENTS

REVISION HISTORY.....	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant	5
1.2 Manufacturer	5
1.3 Product Feature of Equipment Under Test.....	5
1.4 Product Specification of Equipment Under Test.....	5
1.5 Modification of EUT	5
1.6 Testing Location	6
1.7 Test Software.....	6
1.8 Applicable Standards.....	6
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode.....	7
2.3 Connection Diagram of Test System.....	8
2.4 EUT Operation Test Setup	8
2.5 Measurement Results Explanation Example.....	8
3 TEST RESULT	9
3.1 6dB and 99% Bandwidth Measurement	9
3.2 Output Power Measurement.....	11
3.3 Power Spectral Density Measurement	12
3.4 Conducted Band Edges and Spurious Emission Measurement	14
3.5 Radiated Band Edges and Spurious Emission Measurement	27
3.6 Antenna Requirements.....	31
4 LIST OF MEASURING EQUIPMENT	32
5 MEASUREMENT UNCERTAINTY	33
APPENDIX A. CONDUCTED TEST RESULTS	
APPENDIX B. RADIATED SPURIOUS EMISSION	
APPENDIX C. DUTY CYCLE PLOTS	
APPENDIX D. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR543007B	Rev. 01	Initial issue of report	Jul. 23, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Report Only	-
3.2	15.247(b)	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.09 dB at 4824.00 MHz
-	15.207	AC Conducted Emission	15.207(a)	Not Required	1
3.6	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-
Remark1: The device is powered by the Battery only.					

Conformity Assessment Condition:

- 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/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 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.



1 General Description

1.1 Applicant

CHEP

2901 Tasman Drive Suite 101 Santa Clara, CA 95054

1.2 Manufacturer

Minewing (Shenzhen) Electronics Integrated Co., Ltd

Floor #2, Building H2, Hongfa Tech Park, No 32, Tangtou Road, Shiyan Town, Bao'an District, Shenzhen, China, 518108

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Asset Tracker
Brand Name	CHEP
Model Name	Ultra Scout1
FCC ID	2APRD-ULTRASCOUT1
SN Code	Conducted: 1250144000001613 Radiation: 1250144000001615
HW Version	GEN1
SW Version	10.01.0003-P
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum (Peak) Output Power to antenna	802.11b : 11.93 dBm (0.0156 W) 802.11g : 18.89 dBm (0.0774 W) 802.11n HT20 : 18.93 dBm (0.0782 W) 802.11n HT40 : 18.90 dBm (0.0776 W)
99% Occupied Bandwidth	802.11b : 13.26MHz 802.11g : 16.77MHz 802.11n HT20 : 17.61MHz 802.11n HT40 : 35.36MHz
Antenna Type / Gain	PCB Antenna type with gain -2.5 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ 03CH04-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

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

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. 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

- 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: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X/Z plane) were recorded in this report.

2.1 Carrier Frequency and Channel

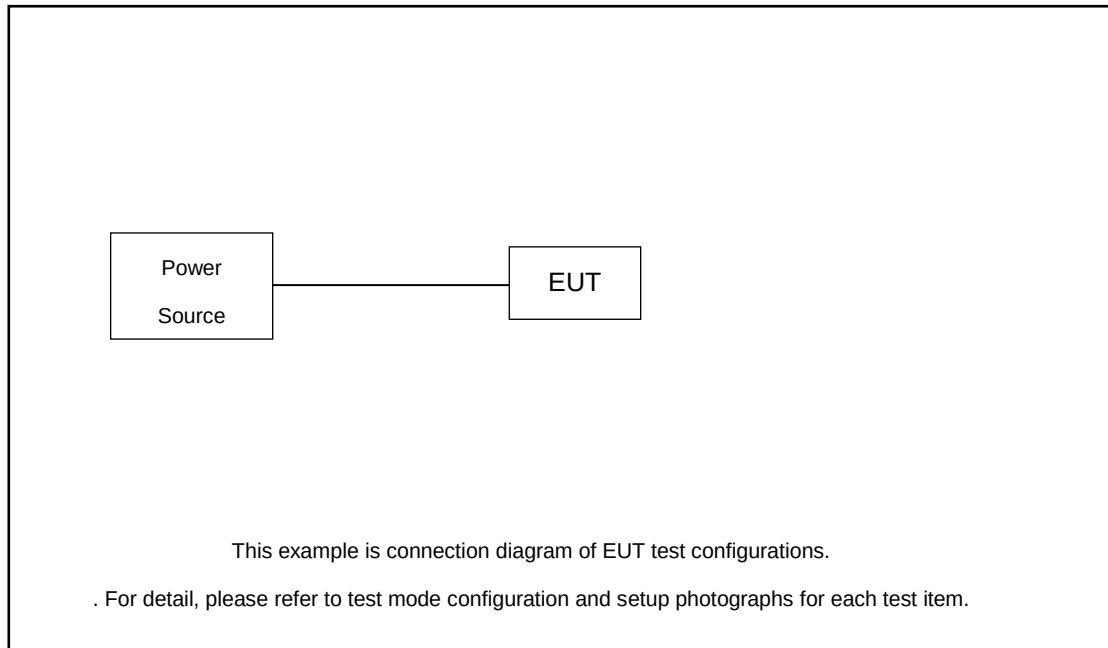
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437	-	-

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

2.5 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 1.3 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 1.3 + 10 = 11.3 (dB)

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.

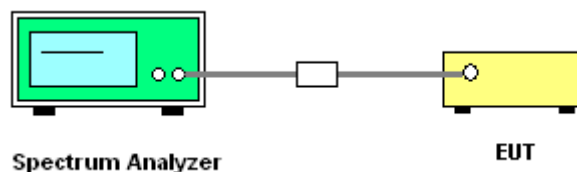
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) $\geq 3 \times \text{RBW}$. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1%~5% of OBW and set the Video bandwidth (VBW) approximately three times the RBW.
6. Measure and record the results in the test report.

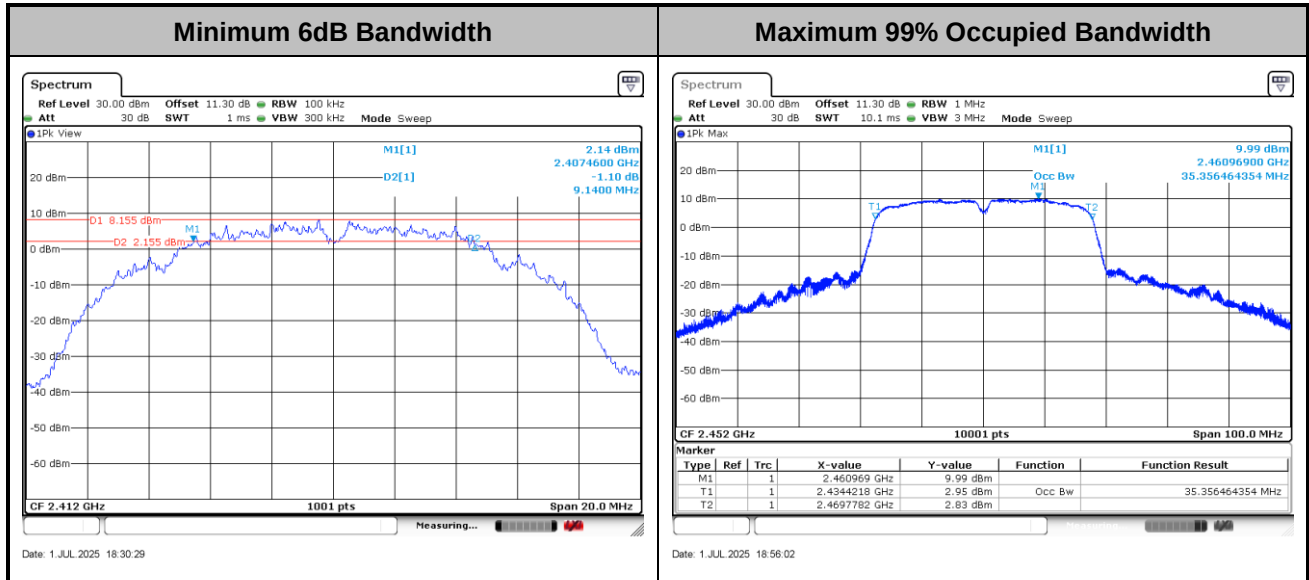
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi 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 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

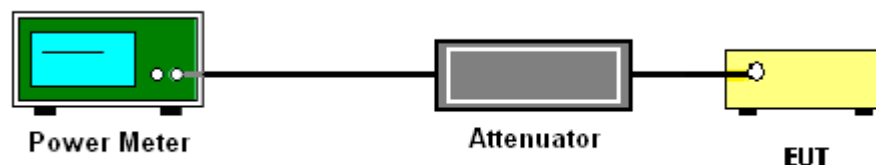
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

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 8dBm in any 3kHz band at any time interval of continuous transmission.

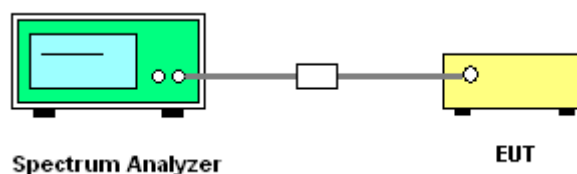
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

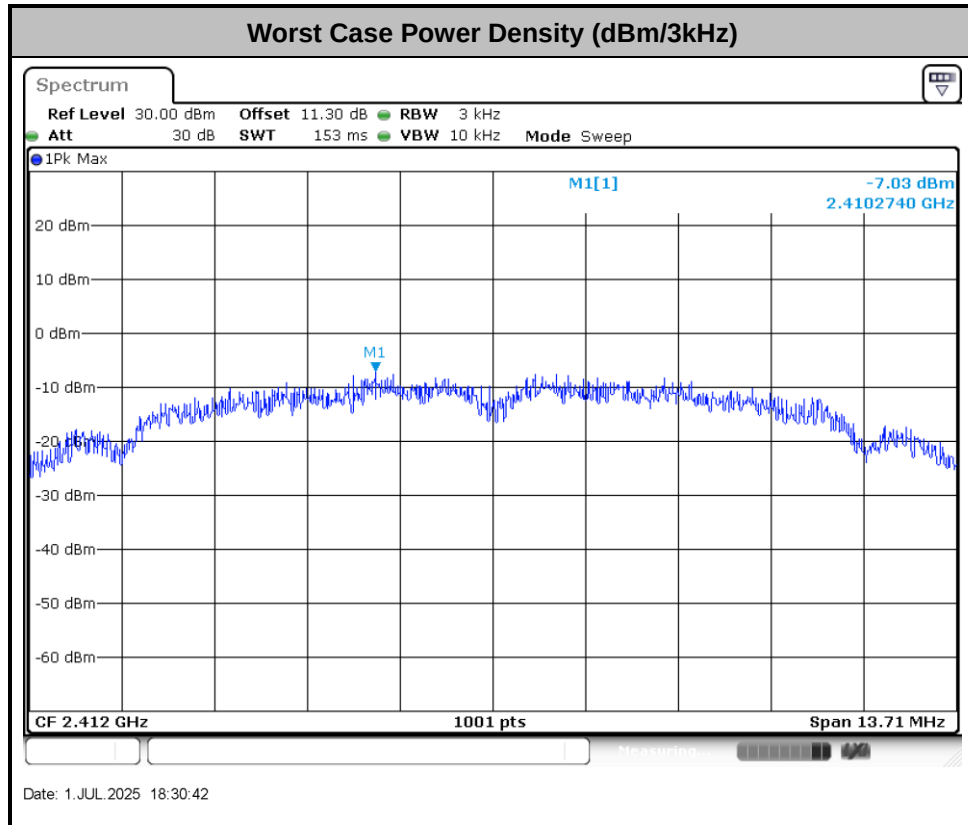
1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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. (6dB BW)
5. Detector = peak, Sweep time = auto couple, 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.

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 Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

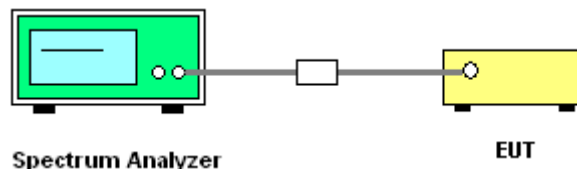
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.11
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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 per 15.247(d).
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



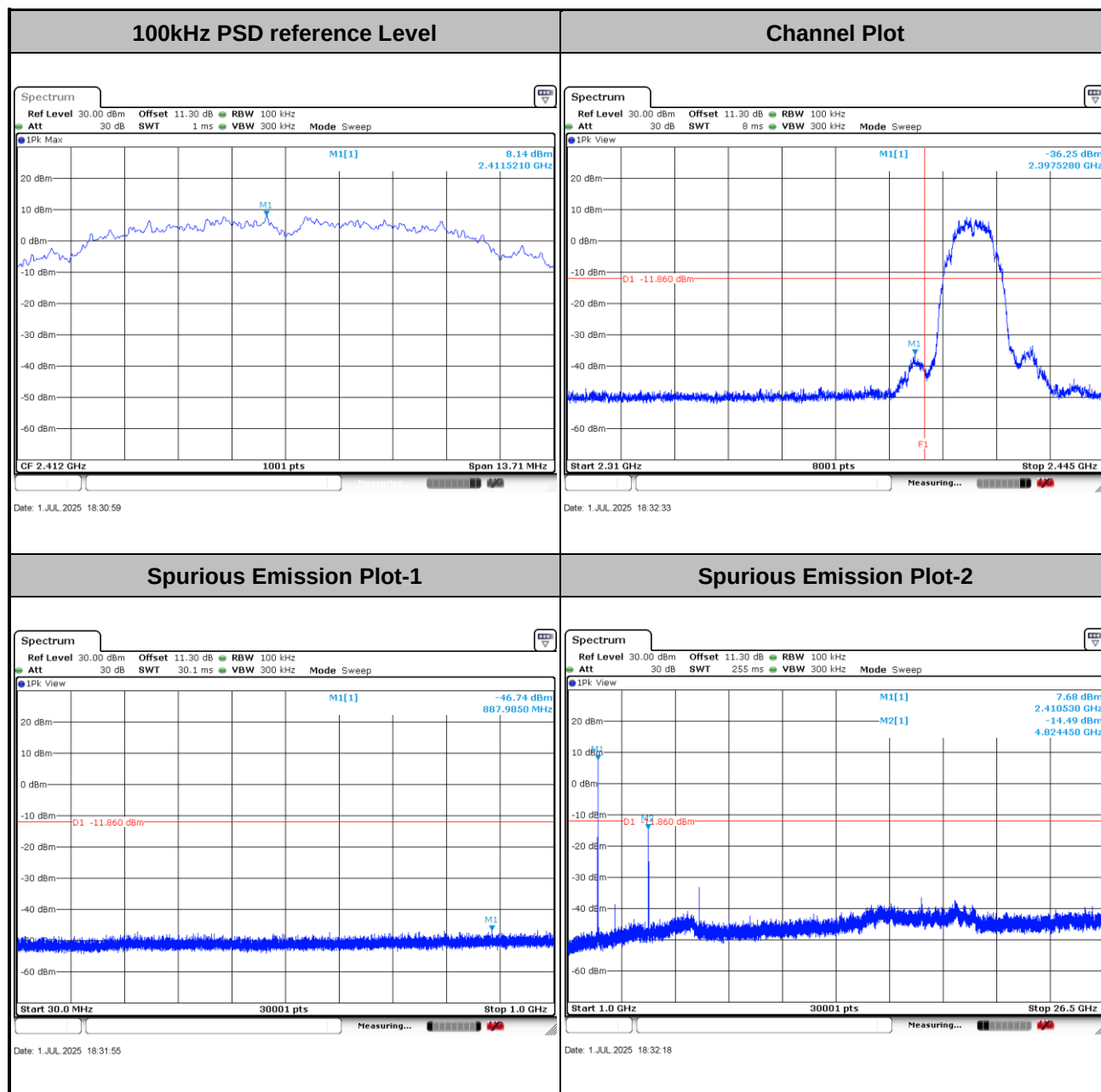


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Sam Zheng	Temperature :	24~26°C
		Relative Humidity :	50~53%

Number of TX = 1, Ant. 1 (Measured)

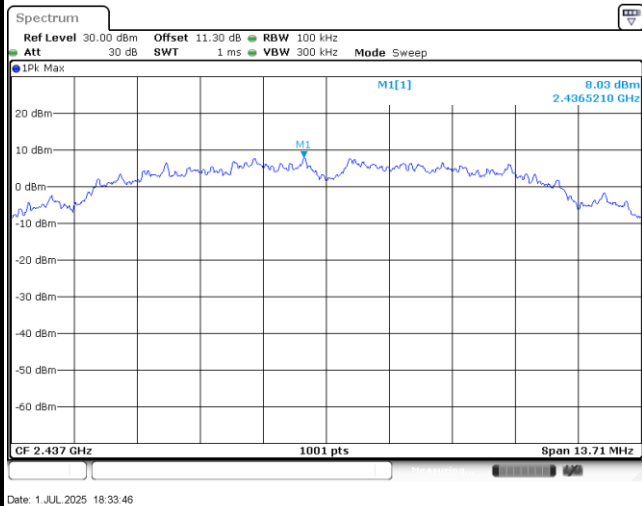
Test Mode :	802.11b	Test Channel :	01
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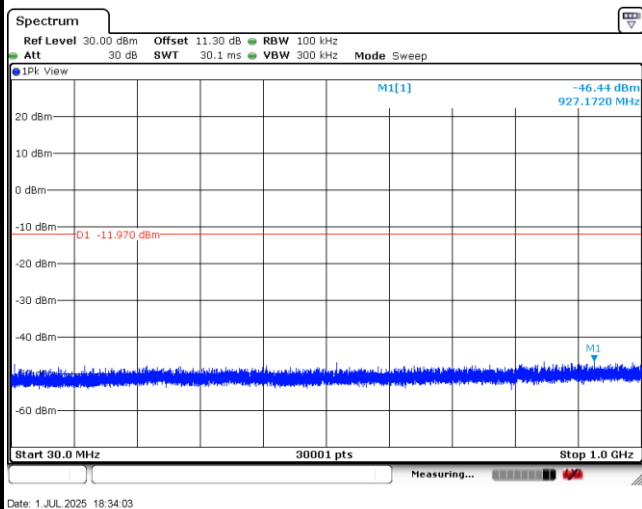
Test Mode :	802.11b	Test Channel :	06
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100kHz PSD reference Level

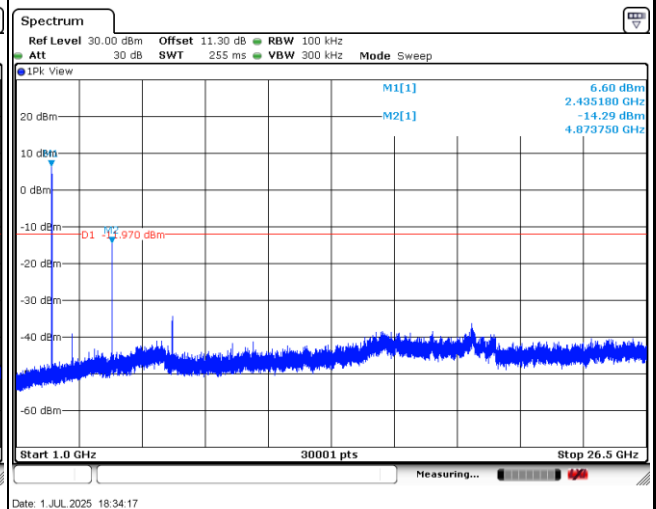


Channel Plot

Spurious Emission Plot-1

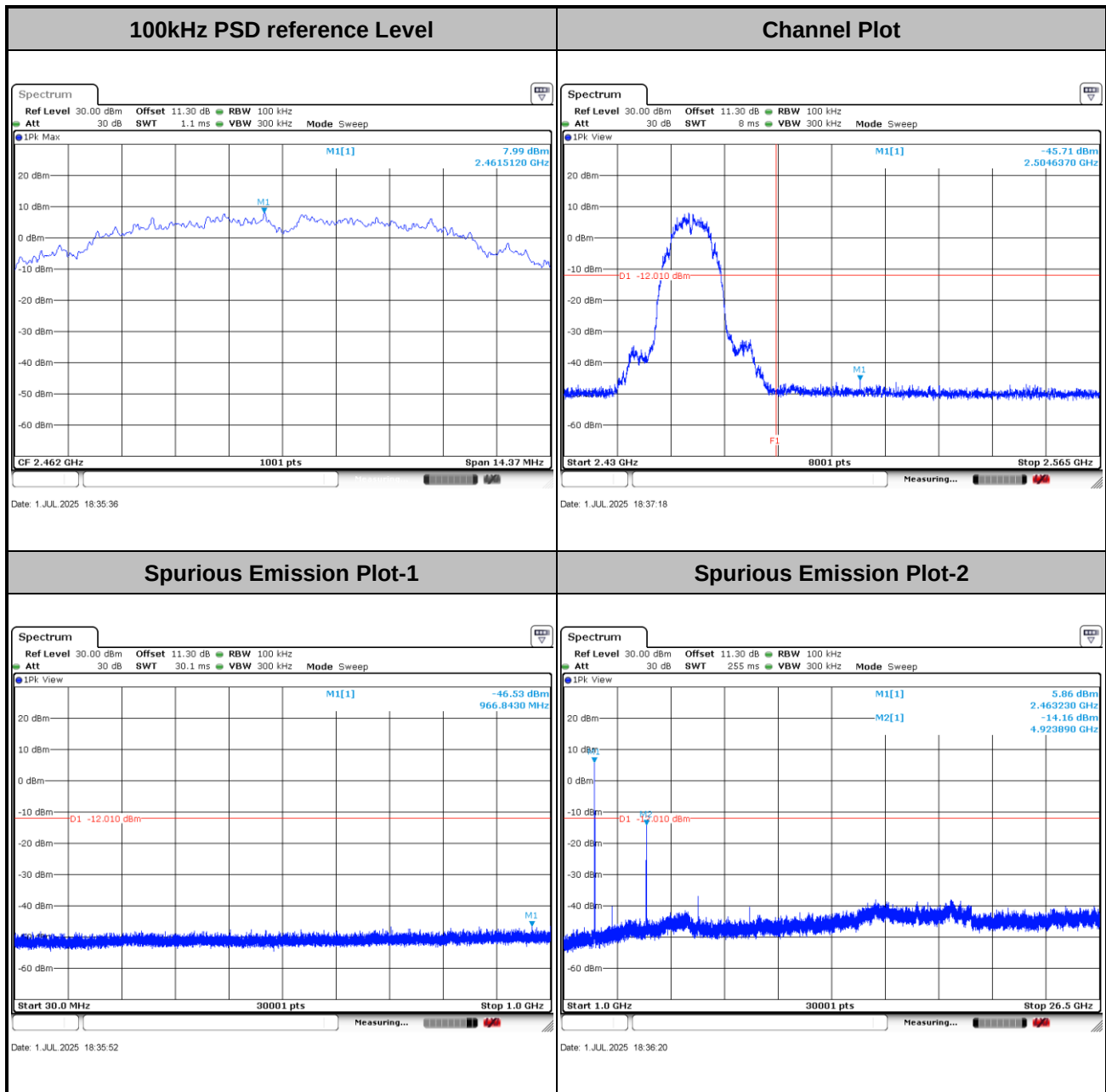


Spurious Emission Plot-2





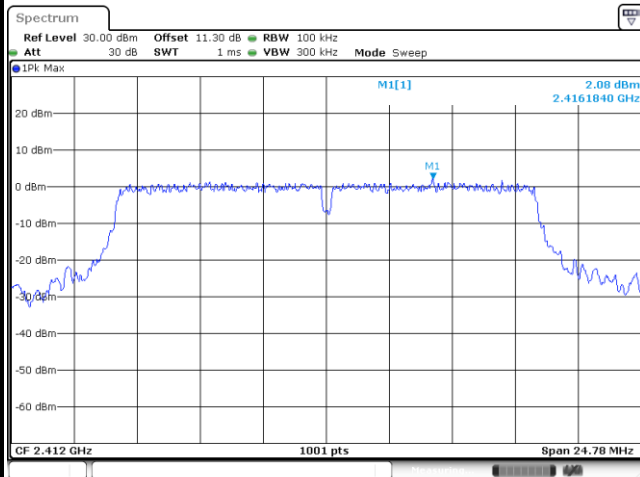
Test Mode :	802.11b	Test Channel :	11
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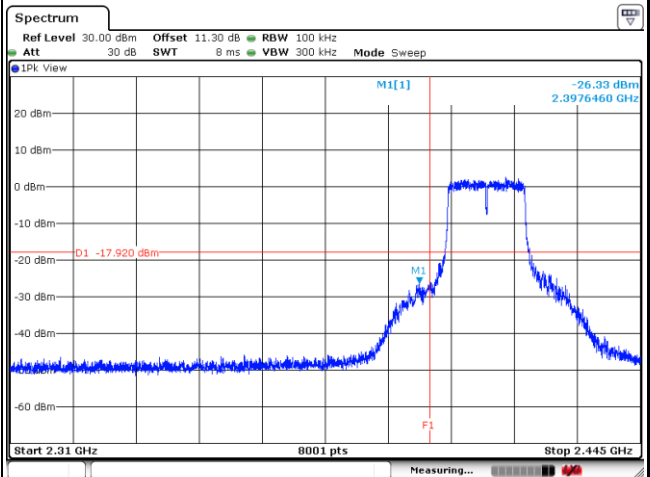
Test Mode :	802.11g	Test Channel :	01
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100kHz PSD reference Level



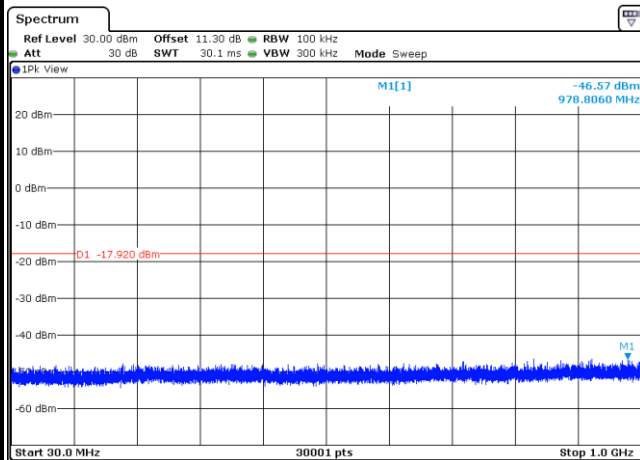
Date: 1 JUL 2025 18:39:21

Channel Plot



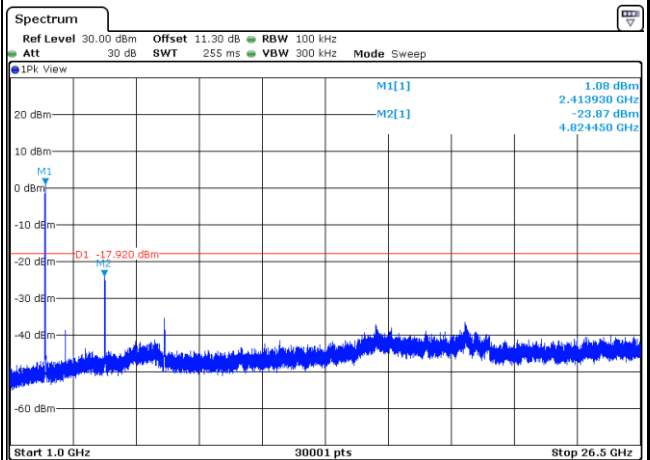
Date: 2 JUL 2025 11:47:19

Spurious Emission Plot-1



Date: 1 JUL 2025 18:39:37

Spurious Emission Plot-2

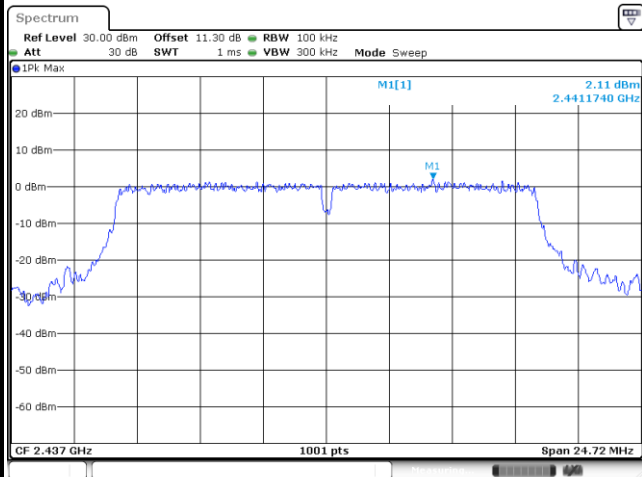


Date: 1 JUL 2025 18:39:54



Test Mode :	802.11g	Test Channel :	06
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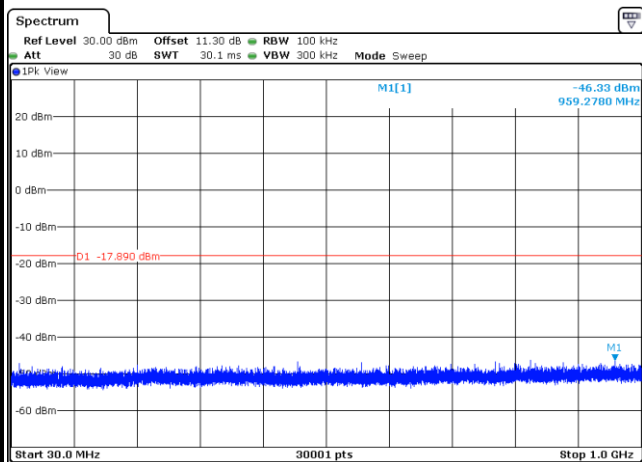
100kHz PSD reference Level



Date: 1 JUL 2025 18:43:12

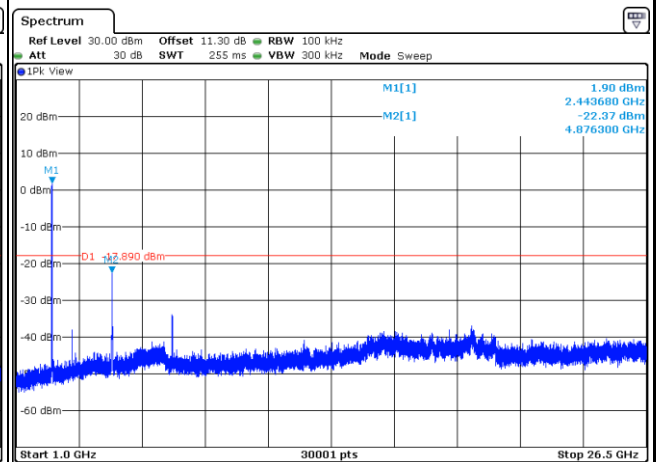
Channel Plot

Spurious Emission Plot-1



Date: 1 JUL 2025 18:43:29

Spurious Emission Plot-2

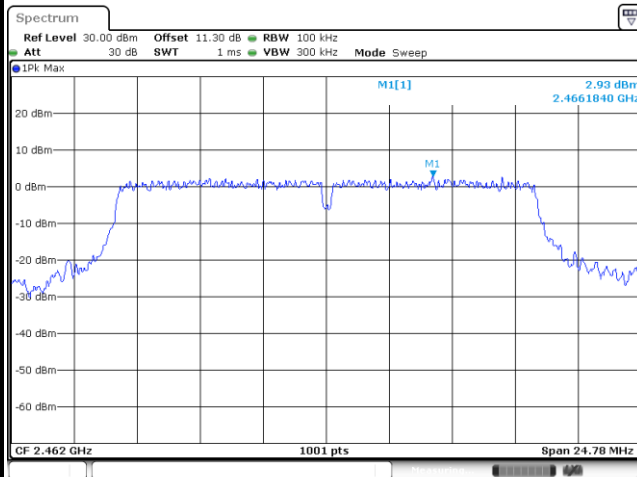


Date: 1 JUL 2025 18:43:49



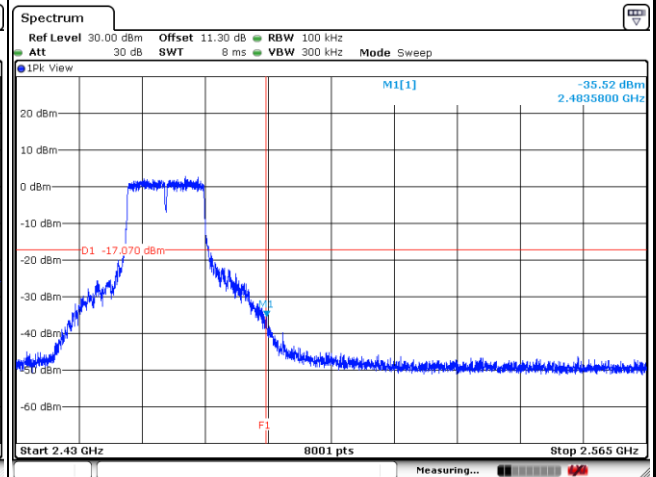
Test Mode :	802.11g	Test Channel :	11
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100kHz PSD reference Level



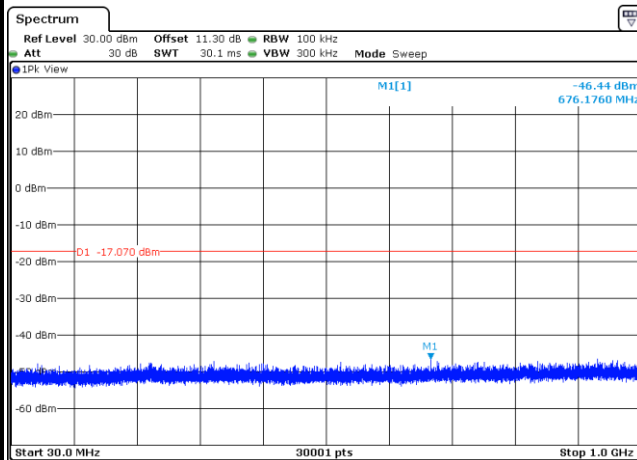
Date: 1 JUL 2025 18:44:57

Channel Plot



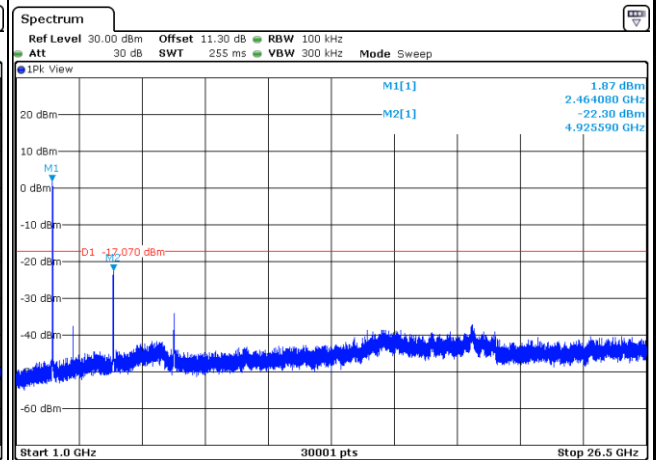
Date: 1 JUL 2025 18:45:48

Spurious Emission Plot-1



Date: 1 JUL 2025 18:45:18

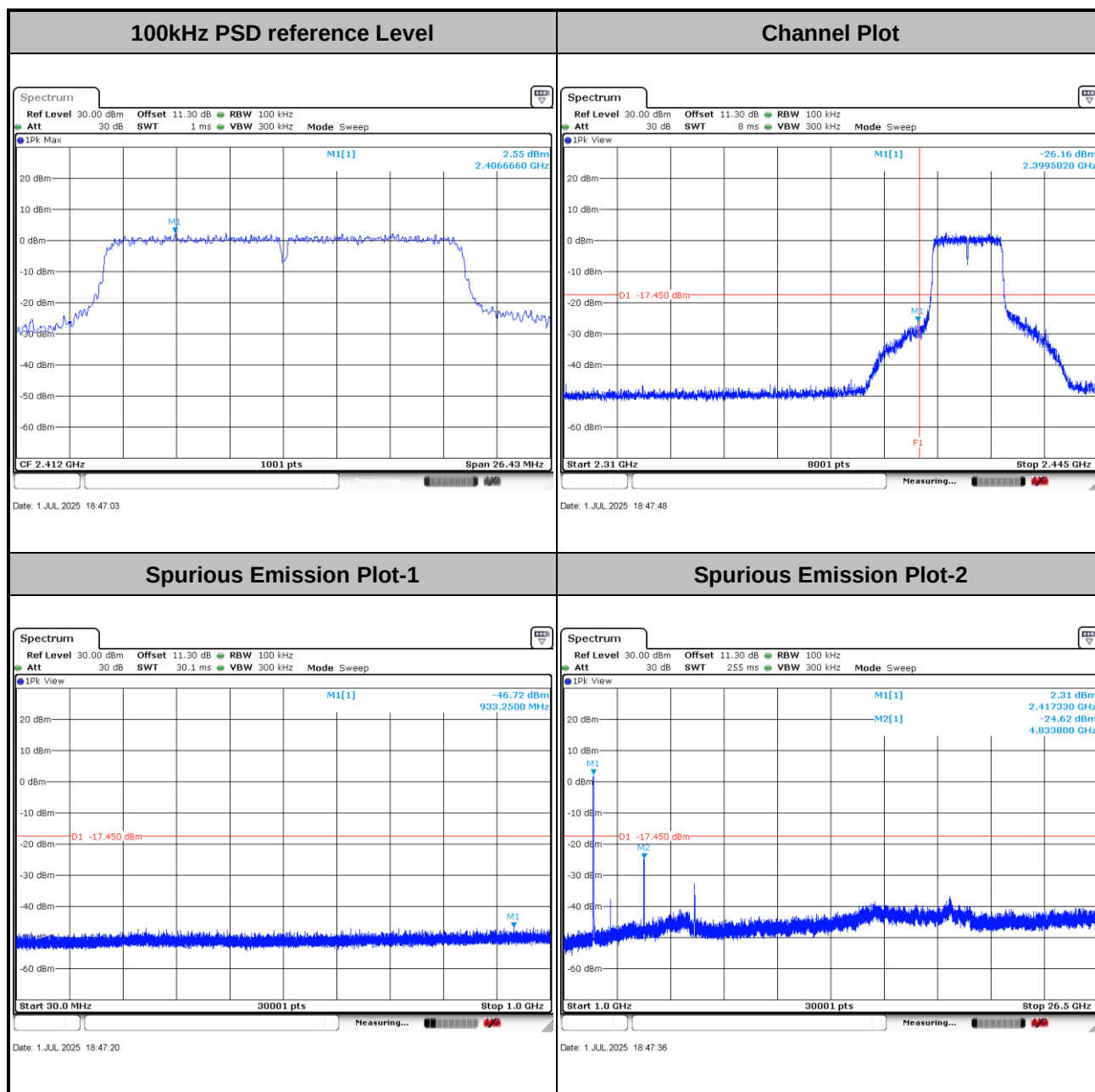
Spurious Emission Plot-2



Date: 1 JUL 2025 18:45:36

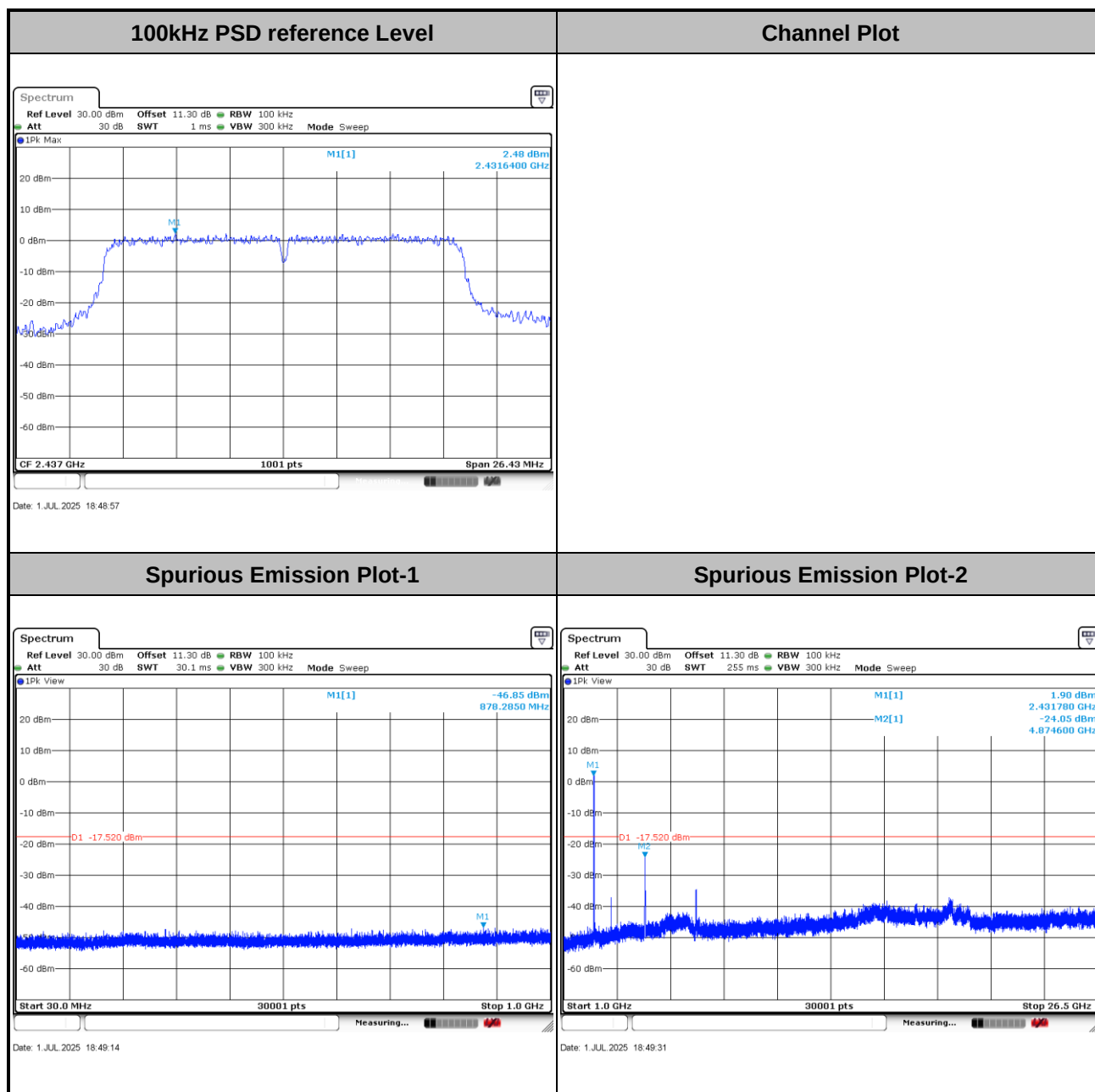


Test Mode :	802.11n HT20	Test Channel :	01
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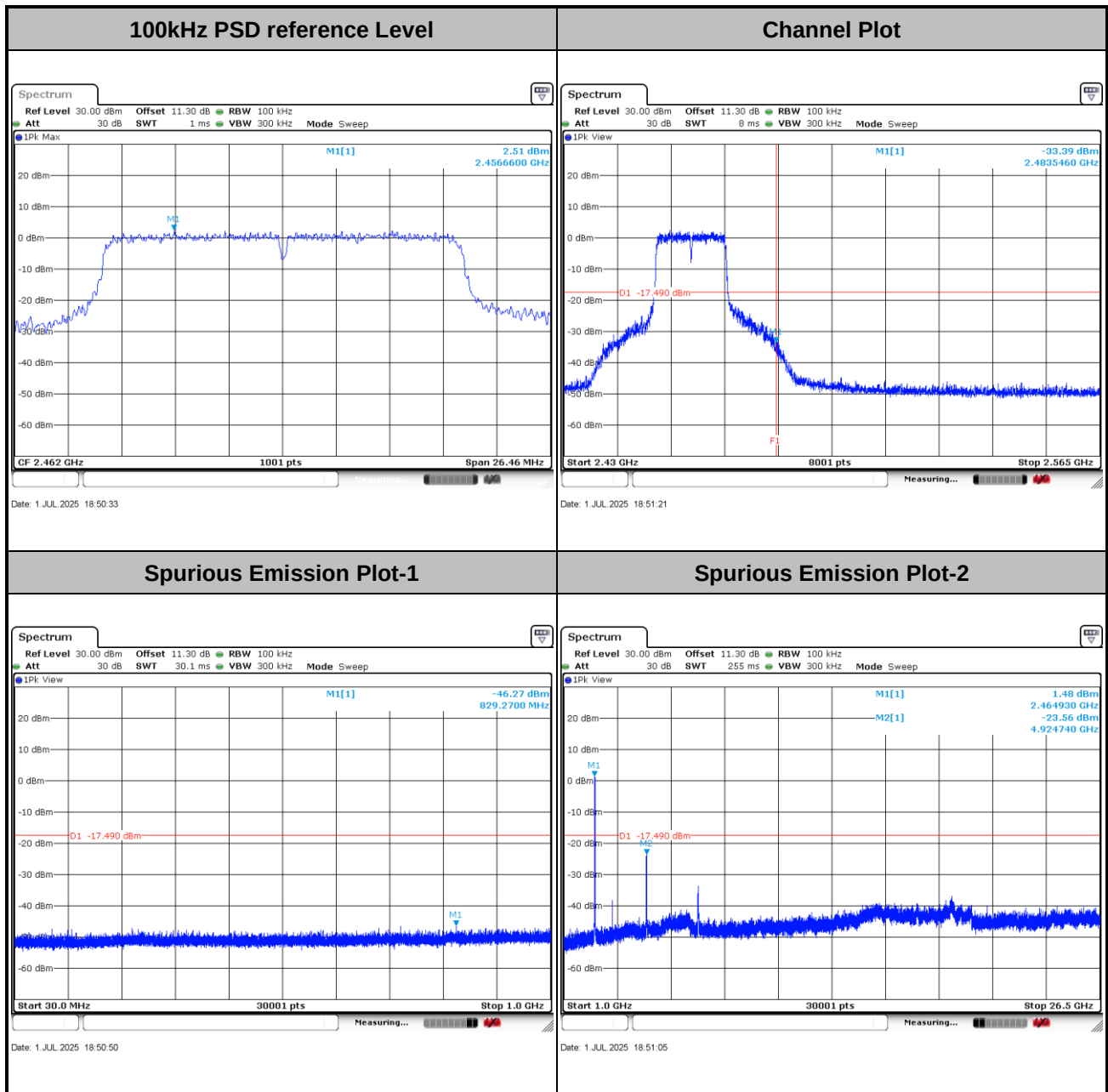


Test Mode :	802.11n HT20	Test Channel :	06
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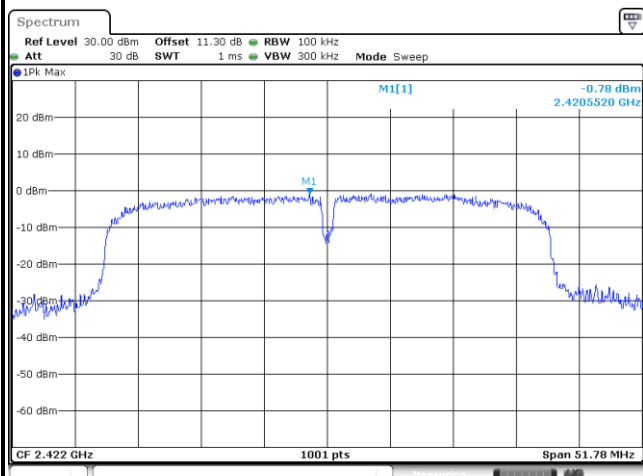
Test Mode :	802.11n HT20	Test Channel :	11
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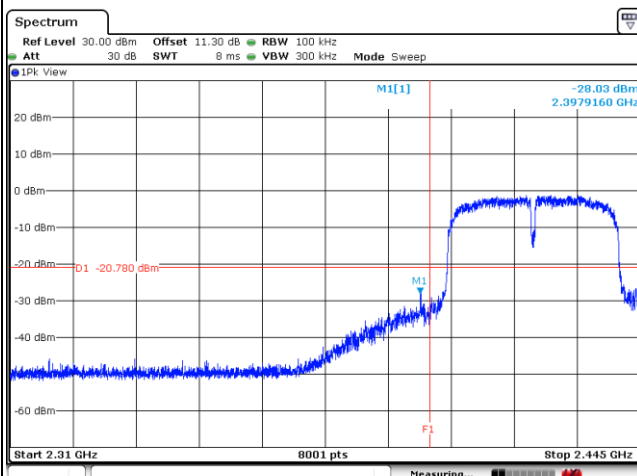
Test Mode :	802.11n HT40	Test Channel :	03
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100kHz PSD reference Level



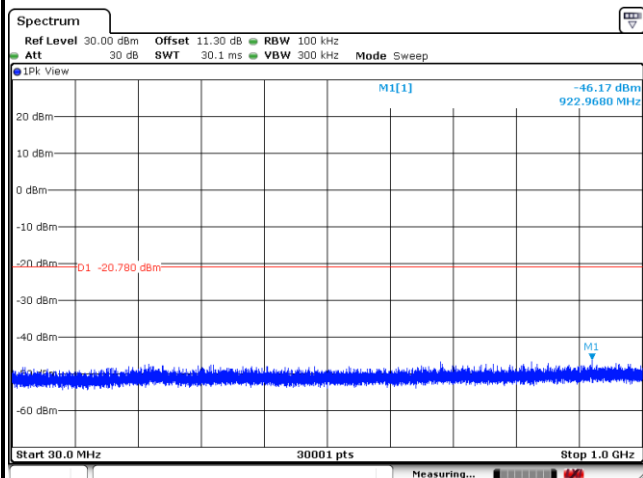
Date: 1 JUL 2025 18:52:45

Channel Plot



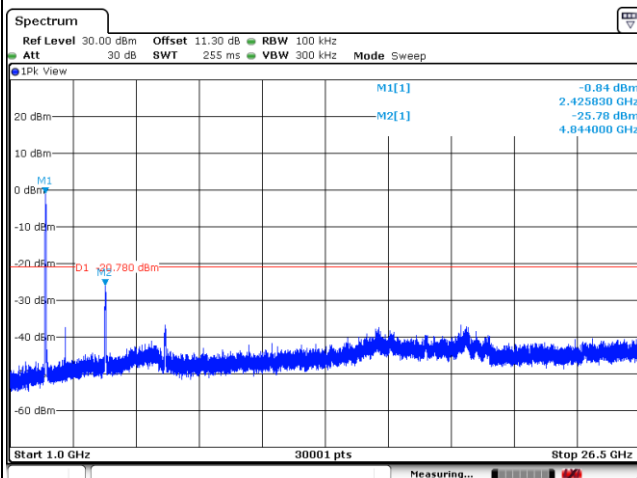
Date: 1 JUL 2025 18:53:38

Spurious Emission Plot-1



Date: 1 JUL 2025 18:53:02

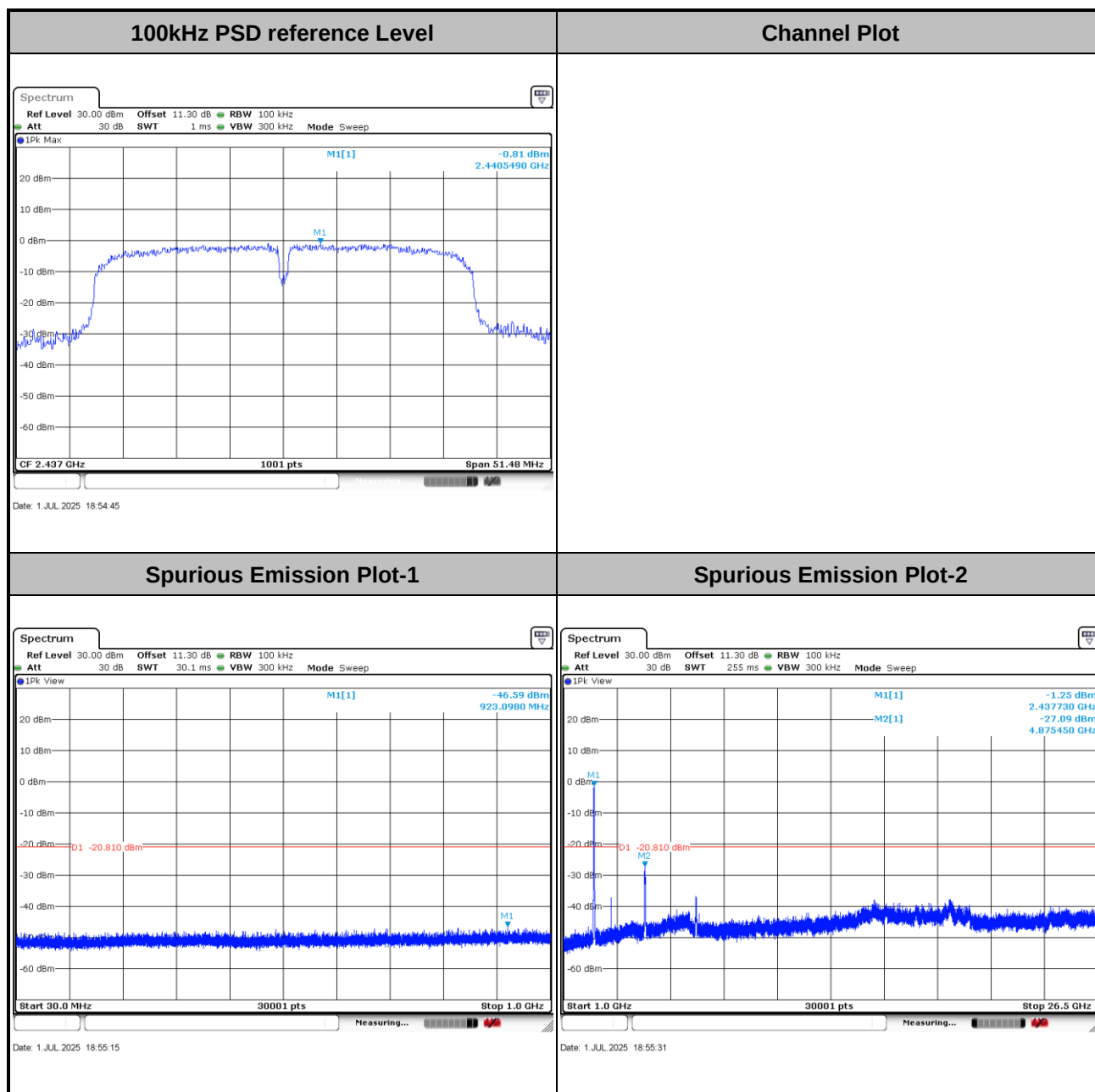
Spurious Emission Plot-2



Date: 1 JUL 2025 18:53:22

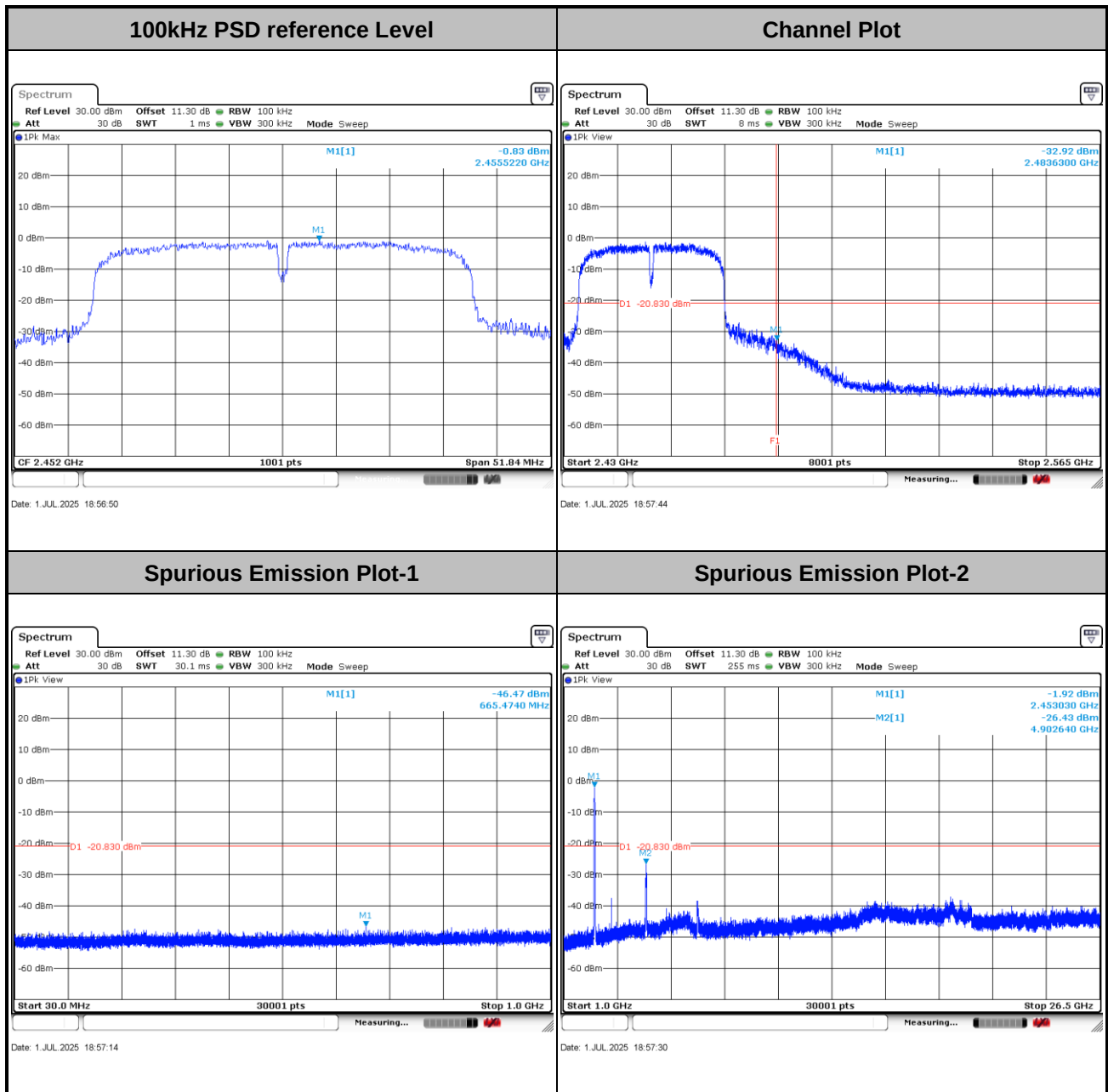


Test Mode :	802.11n HT40	Test Channel :	06
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Test Mode :	802.11n HT40	Test Channel :	09
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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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 output power of this device was measured by spectrum analyzer, the attenuation under this paragraph 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

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

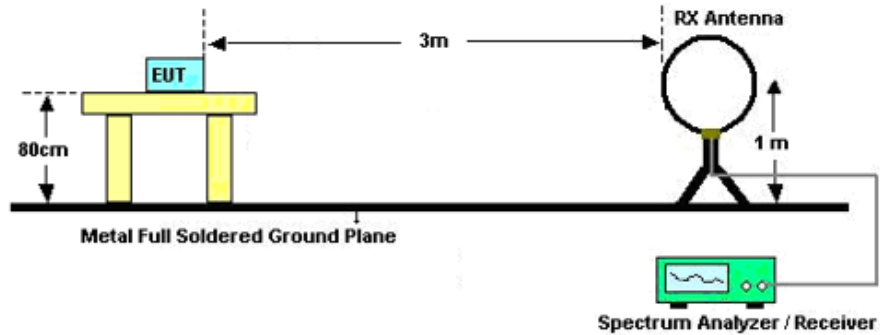
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
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= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

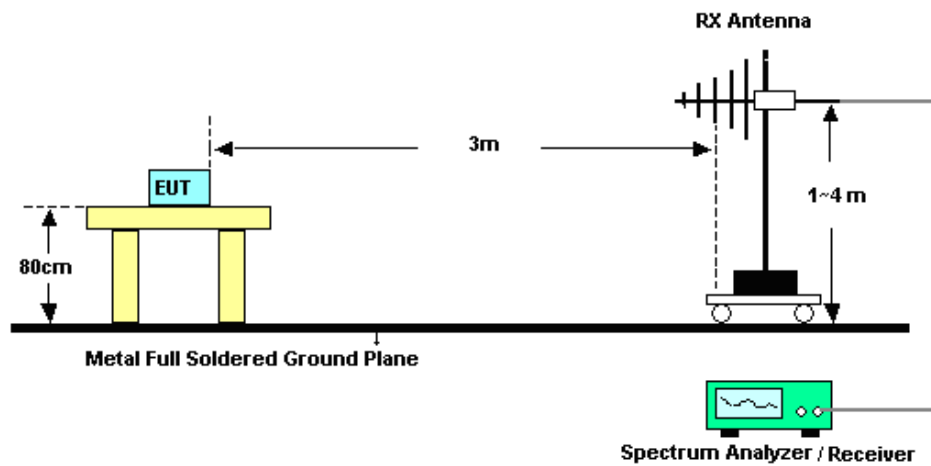
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

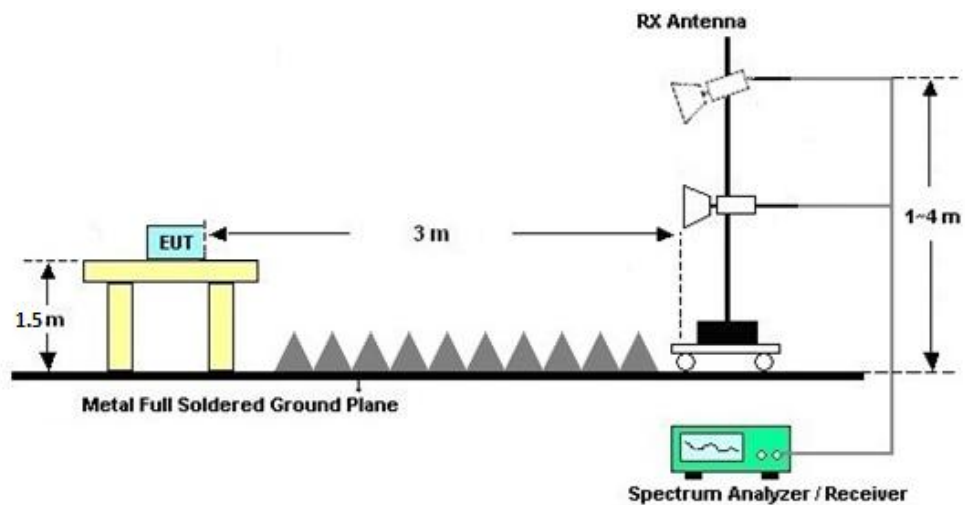
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.5.7 Duty Cycle

Please refer to Appendix C.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 14, 2024	Jul. 15, 2025	Oct. 13, 2025	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	Jul. 15, 2025	Jul. 02, 2026	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Jul. 15, 2025	Dec. 27, 2025	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 09, 2025	Jul. 15, 2025	May 08, 2026	Radiation (03CH04-SZ)
Double Ridge Guide Antenna	ETS-Lindgren	Burgeon-3117	00240057	1GHz~18GHz	Jul. 03, 2025	Jul. 15, 2025	Jul. 02, 2026	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 04, 2025	Jul. 15, 2025	Jul. 03, 2026	Radiation (03CH04-SZ)
LF Amplifier	EM Electronics	EM330	060773	20MHz~3GHz	Apr. 02, 2025	Jul. 15, 2025	Apr. 01, 2026	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 14, 2024	Jul. 15, 2025	Oct. 13, 2025	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Jul. 15, 2025	Jul. 02, 2026	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Jul. 03, 2025	Jul. 15, 2025	Jul. 02, 2026	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 14, 2024	Jul. 15, 2025	Oct. 13, 2025	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 15, 2025	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 15, 2025	NCR	Radiation (03CH04-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	Jul. 01, 2025~Jul. 02, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Jul. 01, 2025~Jul. 02, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct.14,2024	Jul. 01, 2025~Jul. 02, 2025	Oct. 13, 2025	Conducted (TH01-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Conducted Power Spectral Density	± 1.32 dB
Frequency	± 1.3 Hz

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
---	--------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
---	--------

----- THE END -----



Appendix A. Conducted Test Results

Appendix A. Test Result of Conducted Test Items

Test Engineer:	He Qingsheng	Temperature:	21~25	°C
Test Date:	2025/7/1~2025/7/2	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 1		
11b	1Mbps	1	1	2412	13.19	9.14	0.50	Pass
11b	1Mbps	1	6	2437	13.18	9.14	0.50	Pass
11b	1Mbps	1	11	2462	13.26	9.58	0.50	Pass
11g	6Mbps	1	1	2412	16.72	16.52	0.50	Pass
11g	6Mbps	1	6	2437	16.70	16.48	0.50	Pass
11g	6Mbps	1	11	2462	16.77	16.52	0.50	Pass
HT20	MCS0	1	1	2412	17.60	17.62	0.50	Pass
HT20	MCS0	1	6	2437	17.59	17.62	0.50	Pass
HT20	MCS0	1	11	2462	17.61	17.64	0.50	Pass
HT40	MCS0	1	3	2422	35.35	34.52	0.50	Pass
HT40	MCS0	1	6	2437	35.34	34.32	0.50	Pass
HT40	MCS0	1	9	2452	35.36	34.56	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1	
11b	1Mbps	1	1	2412	8.60	30.00	-2.50	6.10	36.00	Pass
11b	1Mbps	1	6	2437	8.60	30.00	-2.50	6.10	36.00	Pass
11b	1Mbps	1	11	2462	9.10	30.00	-2.50	6.60	36.00	Pass
11g	6Mbps	1	1	2412	10.20	30.00	-2.50	7.70	36.00	Pass
11g	6Mbps	1	6	2437	9.60	30.00	-2.50	7.10	36.00	Pass
11g	6Mbps	1	11	2462	10.30	30.00	-2.50	7.80	36.00	Pass
HT20	MCS0	1	1	2412	10.30	30.00	-2.50	7.80	36.00	Pass
HT20	MCS0	1	6	2437	9.60	30.00	-2.50	7.10	36.00	Pass
HT20	MCS0	1	11	2462	10.50	30.00	-2.50	8.00	36.00	Pass
HT40	MCS0	1	3	2422	10.30	30.00	-2.50	7.80	36.00	Pass
HT40	MCS0	1	6	2437	8.80	30.00	-2.50	6.30	36.00	Pass
HT40	MCS0	1	9	2452	8.40	30.00	-2.50	5.90	36.00	Pass

Setting
Ant 1
50.00
48.00
45.00
33.00
34.00
32.00
31.00
33.00
30.00
28.00
33.00
36.00

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Output Power

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1	
11b	1Mbps	1	1	2412	11.25	30.00	-2.50	8.75	36.00	Pass
11b	1Mbps	1	6	2437	11.46	30.00	-2.50	8.96	36.00	Pass
11b	1Mbps	1	11	2462	11.93	30.00	-2.50	9.43	36.00	Pass
11g	6Mbps	1	1	2412	18.65	30.00	-2.50	16.15	36.00	Pass
11g	6Mbps	1	6	2437	18.34	30.00	-2.50	15.84	36.00	Pass
11g	6Mbps	1	11	2462	18.89	30.00	-2.50	16.39	36.00	Pass
HT20	MCS0	1	1	2412	18.88	30.00	-2.50	16.38	36.00	Pass
HT20	MCS0	1	6	2437	17.96	30.00	-2.50	15.46	36.00	Pass
HT20	MCS0	1	11	2462	18.93	30.00	-2.50	16.43	36.00	Pass
HT40	MCS0	1	3	2422	18.90	30.00	-2.50	16.40	36.00	Pass
HT40	MCS0	1	6	2437	17.92	30.00	-2.50	15.42	36.00	Pass
HT40	MCS0	1	9	2452	17.63	30.00	-2.50	15.13	36.00	Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)	DG (dBi)	Peak PSD Limit (dBm/3kHz)	Pass/Fail
					Ant 1	Ant 1	Ant 1	
11b	1Mbps	1	1	2412	-7.03	-2.50	8.00	Pass
11b	1Mbps	1	6	2437	-7.14	-2.50	8.00	Pass
11b	1Mbps	1	11	2462	-7.14	-2.50	8.00	Pass
11g	6Mbps	1	1	2412	-13.03	-2.50	8.00	Pass
11g	6Mbps	1	6	2437	-13.10	-2.50	8.00	Pass
11g	6Mbps	1	11	2462	-12.08	-2.50	8.00	Pass
HT20	MCS0	1	1	2412	-11.43	-2.50	8.00	Pass
HT20	MCS0	1	6	2437	-11.82	-2.50	8.00	Pass
HT20	MCS0	1	11	2462	-11.18	-2.50	8.00	Pass
HT40	MCS0	1	3	2422	-13.85	-2.50	8.00	Pass
HT40	MCS0	1	6	2437	-13.49	-2.50	8.00	Pass
HT40	MCS0	1	9	2452	-13.70	-2.50	8.00	Pass

Measured power density (dBm) has offset with cable loss.



Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Wenbo Xiao	Relative Humidity :	48~49%
		Temperature :	24~25℃

Radiated Spurious Emission Test Modes

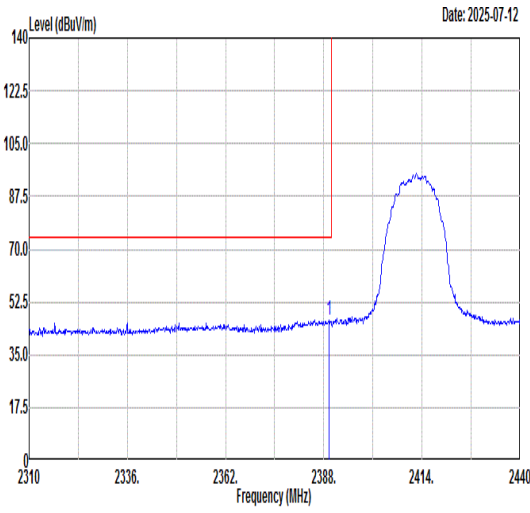
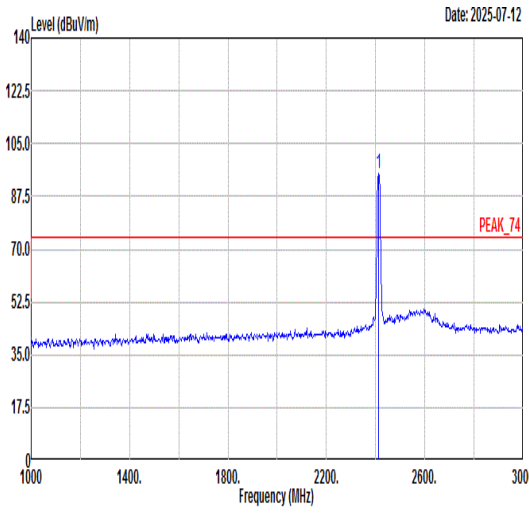
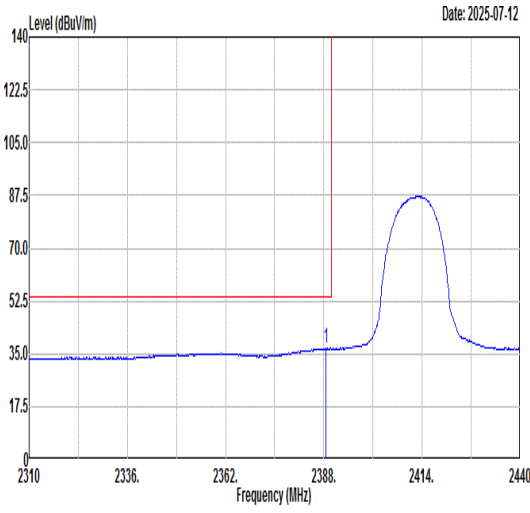
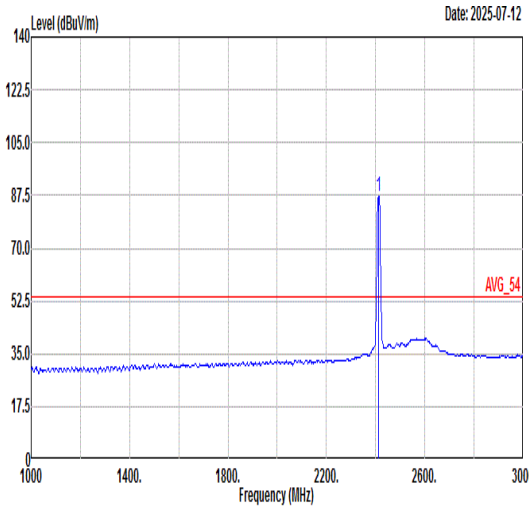
Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 7	2400-2483.5	SISO	802.11b	01	2412	1Mbps	-	-
Mode 8	2400-2483.5	SISO	802.11b	06	2437	1Mbps	-	-
Mode 9	2400-2483.5	SISO	802.11b	11	2462	1Mbps	-	-
Mode 10	2400-2483.5	SISO	802.11g	01	2412	6Mbps	-	-
Mode 11	2400-2483.5	SISO	802.11g	06	2437	6Mbps	-	-
Mode 12	2400-2483.5	SISO	802.11g	11	2462	6Mbps	-	-
Mode 13	2400-2483.5	SISO	802.11n HT20	01	2412	MCS0	-	-
Mode 14	2400-2483.5	SISO	802.11n HT20	06	2437	MCS0	-	-
Mode 15	2400-2483.5	SISO	802.11n HT20	11	2462	MCS0	-	-
Mode 16	2400-2483.5	SISO	802.11n HT40	03	2422	MCS0	-	-
Mode 17	2400-2483.5	SISO	802.11n HT40	09	2452	MCS0	-	-
Mode 18	2400-2483.5	SISO	802.11b	01	2412	1Mbps	-	LF
Mode 19	2400-2483.5	SISO	802.11n HT40	06	2437	MCS0	-	-



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
7	802.11b	01	2385.53	43.69	54.00	-10.31	V	Average	Pass	Band Edge
7	802.11b	01	4824.00	50.91	54.00	-3.09	V	Average	Pass	Harmonic
8	802.11b	06	2483.75	45.02	54.00	-8.98	H	Average	Pass	Band Edge
8	802.11b	06	4874.00	50.86	54.00	-3.14	V	Average	Pass	Harmonic
9	802.11b	11	2487.57	45.57	54.00	-8.43	H	Average	Pass	Band Edge
9	802.11b	11	4924.00	50.60	54.00	-3.40	V	Average	Pass	Harmonic
10	802.11g	01	2389.95	41.18	54.00	-12.82	H	Average	Pass	Band Edge
10	802.11g	01	4824.00	50.88	54.00	-3.12	V	Average	Pass	Harmonic
11	802.11g	06	-	-	-	-	-	-	-	Band Edge
11	802.11g	06	4874.00	50.71	54.00	-3.29	V	Average	Pass	Harmonic
12	802.11g	11	2483.62	46.01	54.00	-7.99	H	Average	Pass	Band Edge
12	802.11g	11	4924.00	50.67	54.00	-3.33	V	Average	Pass	Harmonic
13	802.11n HT20	01	2389.43	40.22	54.00	-13.78	H	Average	Pass	Band Edge
13	802.11n HT20	01	4824.00	50.80	54.00	-3.20	V	Average	Pass	Harmonic
14	802.11n HT20	06	2488.98	42.56	54.00	-11.44	H	Average	Pass	Band Edge
14	802.11n HT20	06	4874.00	50.75	54.00	-3.25	V	Average	Pass	Harmonic
15	802.11n HT20	11	2483.62	47.20	54.00	-6.80	H	Average	Pass	Band Edge
15	802.11n HT20	11	4924.00	50.87	54.00	-3.13	V	Average	Pass	Harmonic
16	802.11n HT40	03	2485.80	44.04	54.00	-9.96	H	Average	Pass	Band Edge
16	802.11n HT40	03	4844.00	50.76	54.00	-3.24	V	Average	Pass	Harmonic
17	802.11n HT40	09	2484.54	50.11	54.00	-3.89	H	Average	Pass	Band Edge
17	802.11n HT40	09	4904.00	50.85	54.00	-3.15	V	Average	Pass	Harmonic
18	802.11b	01	75.59	32.99	40.00	-7.01	H	PEAK	PASS	LF
19	802.11n HT40	06	-	-	-	-	-	-	-	Band Edge
19	802.11n HT40	06	4874.00	50.59	54.00	-3.41	V	Average	Pass	Harmonic

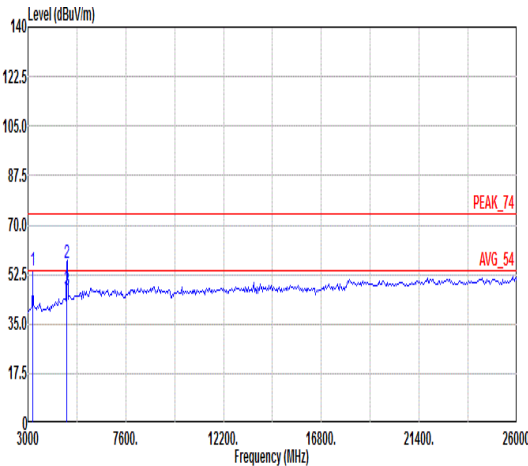
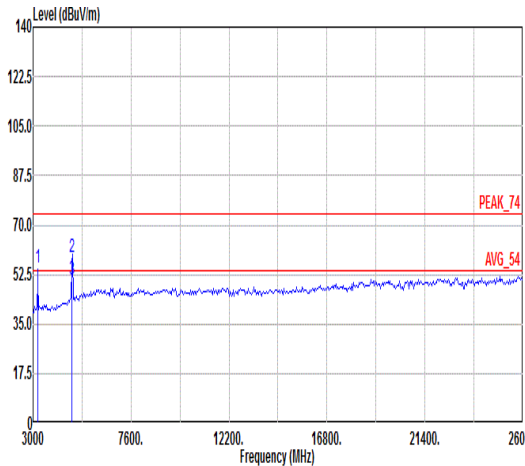


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Peak	 Level (dBuV/m) Date: 2025-07-12 <table><thead><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th></th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1 2389.30</td><td>46.39</td><td>74.00</td><td>-27.61</td><td>44.57</td><td>30.60</td><td>5.36</td><td>34.14</td><td>162</td><td>360 PEAK</td></tr></tbody></table>						Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	1 2389.30	46.39	74.00	-27.61	44.57	30.60	5.36	34.14	162	360 PEAK	 Level (dBuV/m) Date: 2025-07-12 <table><thead><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th></th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1 2412.00</td><td>94.95</td><td>-----</td><td>-----</td><td>93.09</td><td>30.62</td><td>5.38</td><td>34.14</td><td>162</td><td>360 PEAK</td></tr></tbody></table>						Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	1 2412.00	94.95	-----	-----	93.09	30.62	5.38	34.14	162	360 PEAK
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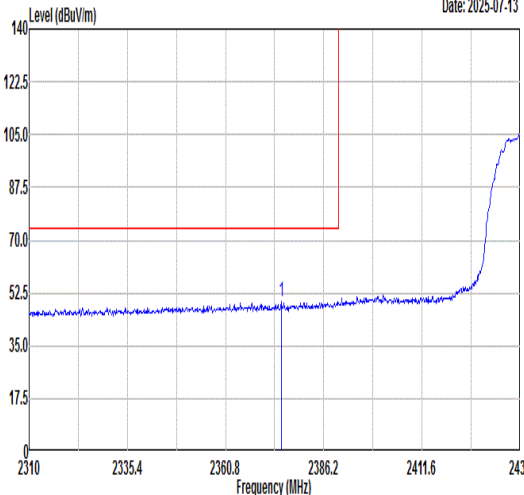
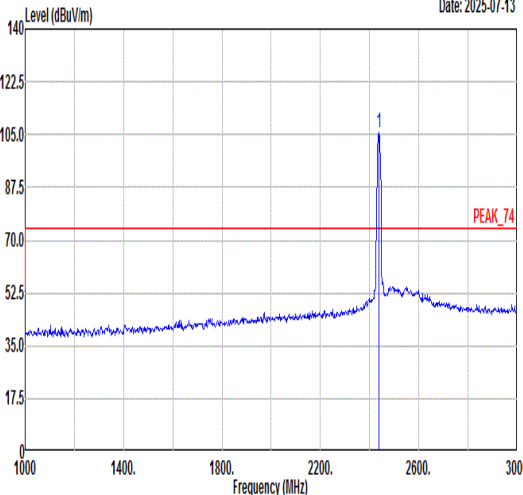
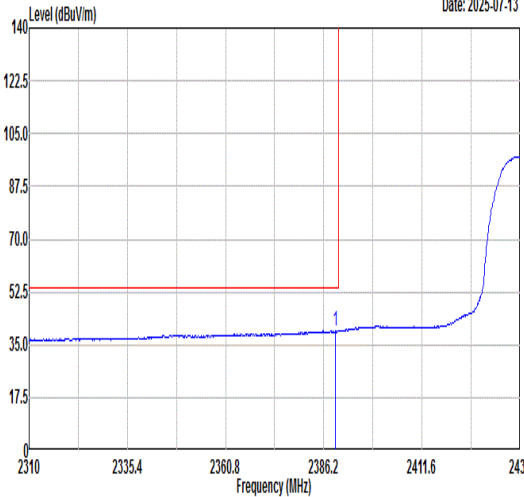
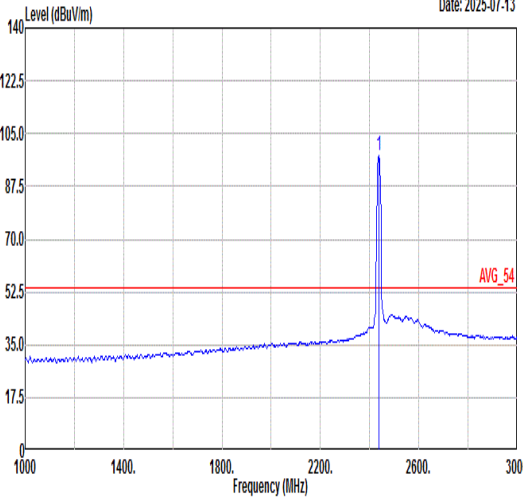


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	<table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th></th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2486.46</td><td>55.62</td><td>74.00</td><td>-18.38</td><td>50.71</td><td>33.56</td><td>5.46</td><td>34.11</td><td>100</td><td>103 PEAK</td></tr></table>											Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	1	2486.46	55.62	74.00	-18.38
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																					
Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark																																				
MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg																																				
1	2486.46	55.62	74.00	-18.38	50.71	33.56	5.46	34.11	100	103 PEAK																																			
Avg	Date: 2025-07-13 AVG_BE_54					Blank																																							
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	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																					
Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark																																				
MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg																																				
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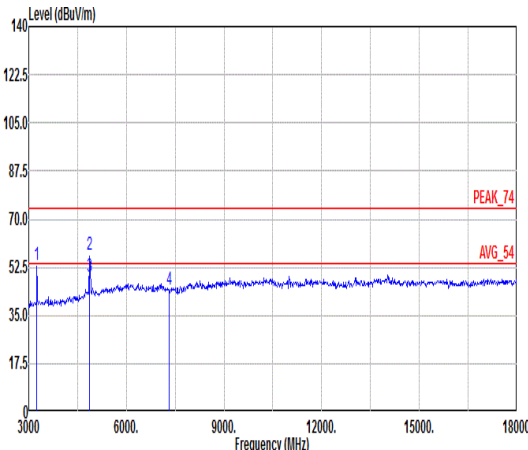
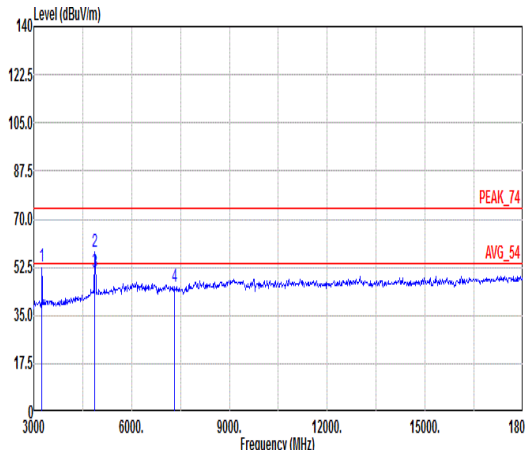


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ANT	SISO	
Pol.	Vertical	Fundamental
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	Level (dBuV/m) Date: 2025-07-13 Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2310.38 36.64 54.00 -17.36 32.42 33.11 5.29 34.18 378 309 AVERAGE	Level (dBuV/m) Date: 2025-07-13 Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2437.00 91.80 ----- 87.07 33.44 5.41 34.12 378 309 AVERAGE



Mode	8																																										
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Peak	Date: 2025-07-13 PEAK_BE_74 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><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>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2484.31</td><td>47.99</td><td>74.00</td><td>-26.01</td><td>43.08</td><td>33.56</td><td>5.46</td><td>34.11</td><td>378</td><td>309 PEAK</td></tr></table>					Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg		1	2484.31	47.99	74.00	-26.01	43.08	33.56	5.46	34.11	378	309 PEAK	Blank				
	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark																																
MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg																																		
1	2484.31	47.99	74.00	-26.01	43.08	33.56	5.46	34.11	378	309 PEAK																																	
Avg	Date: 2025-07-13 AVG_BE_54 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><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>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2489.61</td><td>37.54</td><td>54.00</td><td>-16.46</td><td>32.60</td><td>33.57</td><td>5.47</td><td>34.10</td><td>378</td><td>309 AVERAGE</td></tr></table>					Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg		1	2489.61	37.54	54.00	-16.46	32.60	33.57	5.47	34.10	378	309 AVERAGE	Blank				
	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark																																
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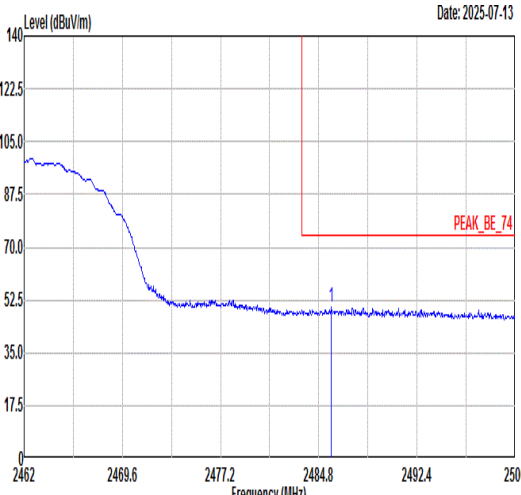
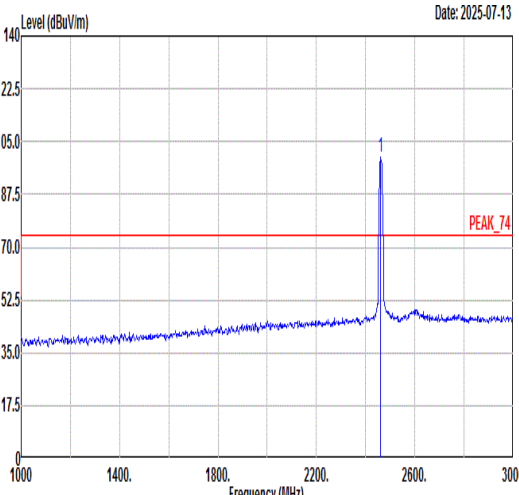
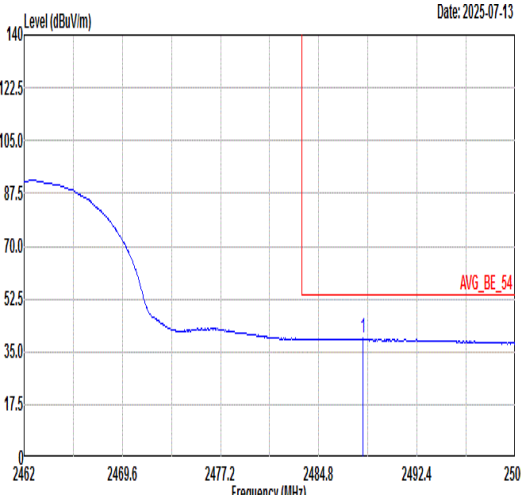
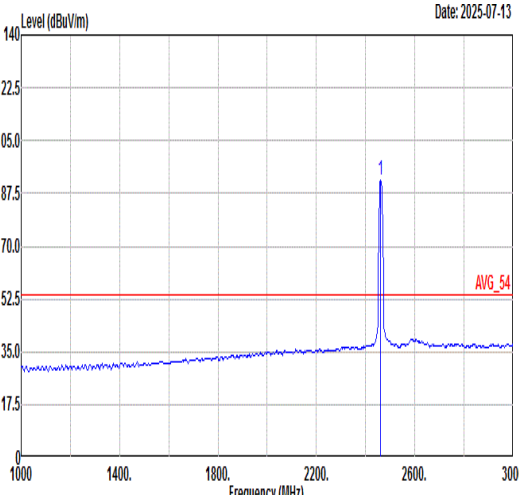


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		Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																																																																																																						
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Pol.		Horizontal					Fundamental																																																																																					
Peak	Level (dBuV/m) Date: 2025-07-13 24622469.62477.22484.82492.42500 Frequency (MHz) <table><thead><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2485.37</td><td>56.57</td><td>74.00</td><td>-17.43</td><td>51.66</td><td>33.56</td><td>5.46</td><td>34.11</td><td>100</td><td>113 PEAK</td></tr></tbody></table>						Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2485.37	56.57	74.00	-17.43	51.66	33.56	5.46	34.11	100	113 PEAK	Level (dBuV/m) Date: 2025-07-13 100014001800220026003000 Frequency (MHz) <table><thead><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2462.00</td><td>105.20</td><td>-----</td><td>-----</td><td>100.38</td><td>33.50</td><td>5.44</td><td>34.12</td><td>100</td><td>113 PEAK</td></tr></tbody></table>						Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2462.00	105.20	-----	-----	100.38	33.50	5.44	34.12	100	113 PEAK
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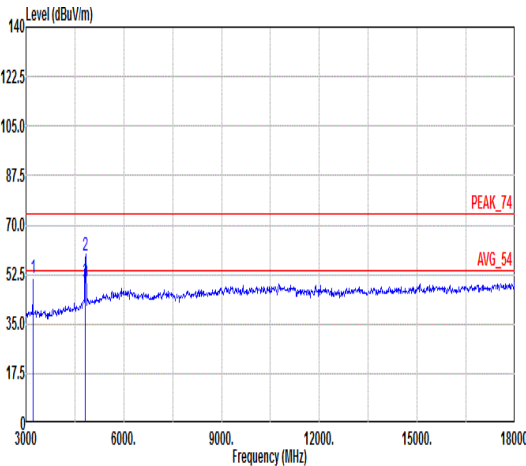
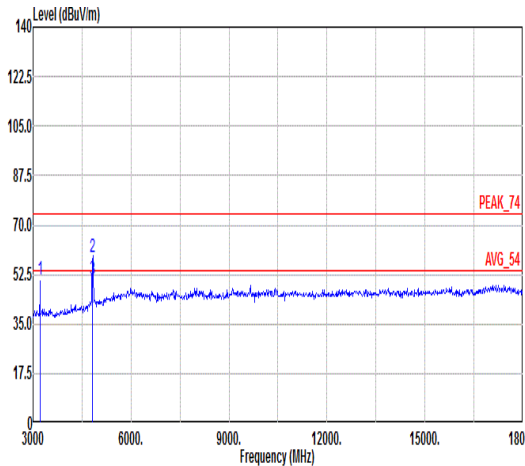


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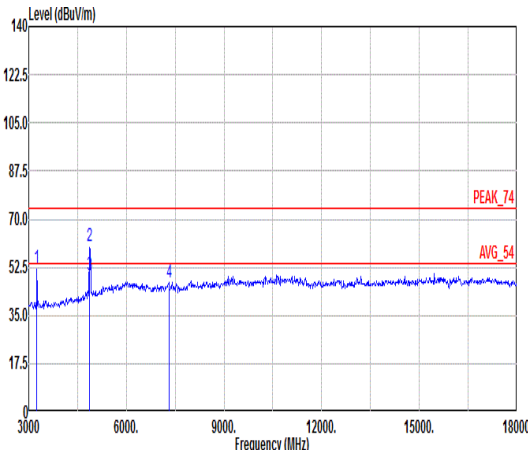
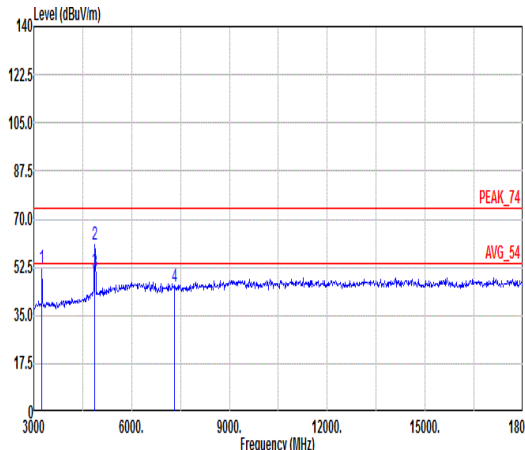


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Pol.	Vertical	Fundamental
Peak	Level (dBuV/m) Date: 2025-07-13 Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dB dB cm deg 1 2389.82 47.93 74.00 -26.07 43.40 33.31 5.36 34.14 385 283 PEAK	Level (dBuV/m) Date: 2025-07-13 Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dB dB cm deg 1 2412.00 97.94 ----- 93.29 33.39 5.39 34.13 385 283 PEAK
	Level (dBuV/m) Date: 2025-07-13 Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dB dB cm deg 1 2389.95 38.27 54.00 -15.73 33.74 33.31 5.36 34.14 385 283 AVERAGE	Level (dBuV/m) Date: 2025-07-13 Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dB dB cm deg 1 2412.00 90.60 ----- 85.95 33.39 5.39 34.13 385 283 AVERAGE

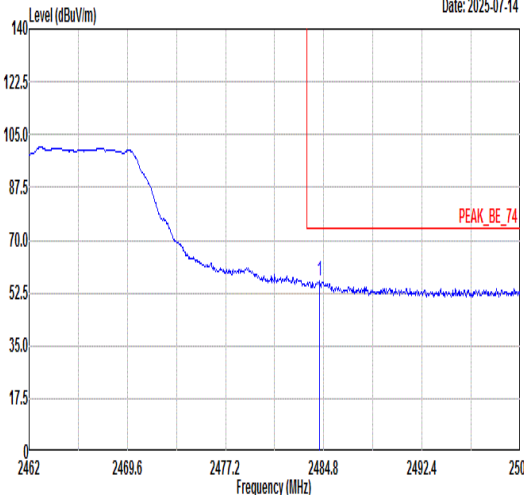
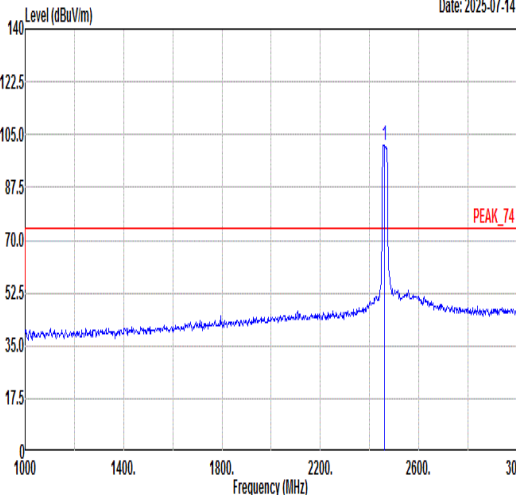
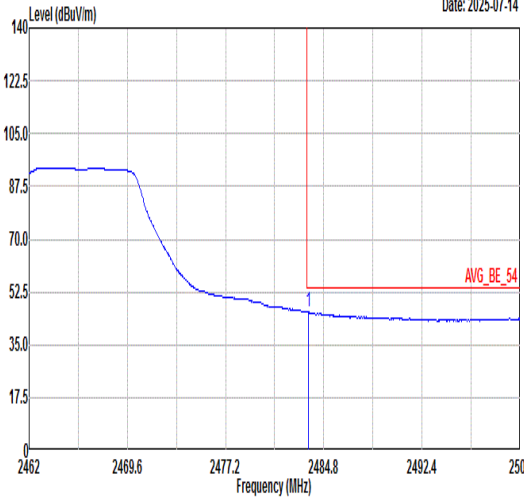
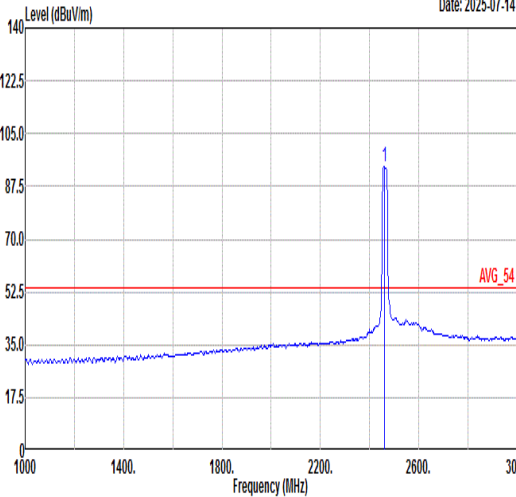


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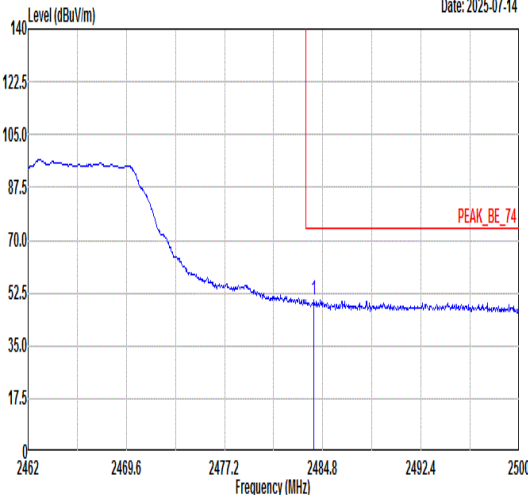
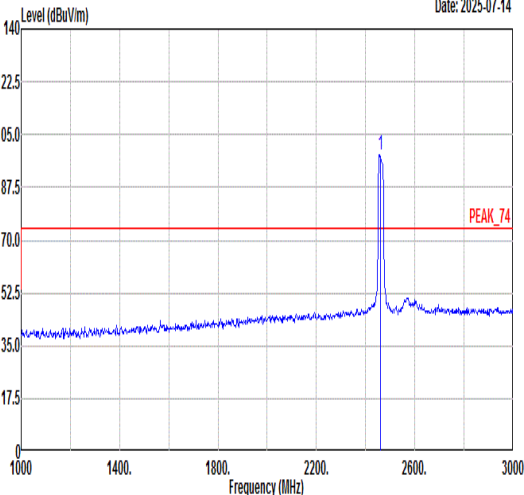
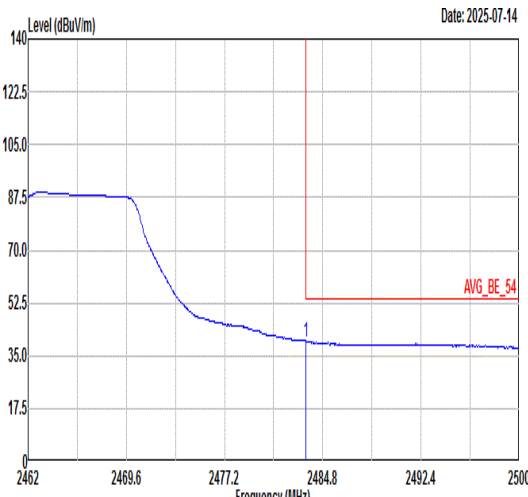
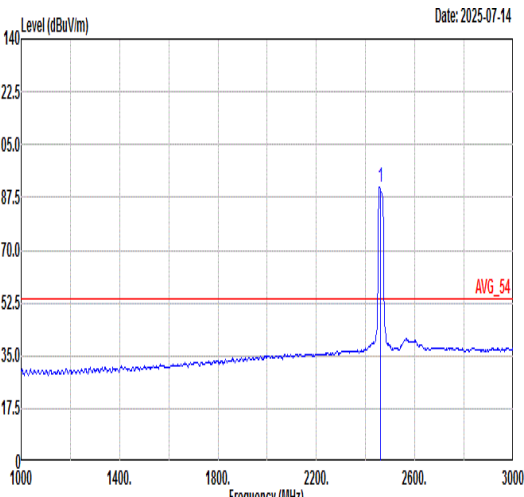


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Pol.	Horizontal																																																																																													
Peak Avg																																																																																														
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			Limit		Read		Ant	Cable	Preamp	APos	TPos	Remark																																																																																		
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2	4874.00	60.12	74.00	-13.88	80.61	35.62	8.72	64.83	100	217	Peak																																																																																			
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			Limit		Read		Ant	Cable	Preamp	APos	TPos	Remark																																																																																		
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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																				
1	3250.00	52.41	74.00	-21.59	78.35	31.70	6.61	64.25	252	306	Peak																																																																																			
2	4874.00	60.99	74.00	-13.01	81.48	35.62	8.72	64.83	100	301	Peak																																																																																			
3	4874.00	50.71	54.00	-3.29	71.20	35.62	8.72	64.83	100	301	Average																																																																																			
4	7311.00	45.69	74.00	-28.31	63.77	36.75	10.18	65.01	---	---	Peak																																																																																			

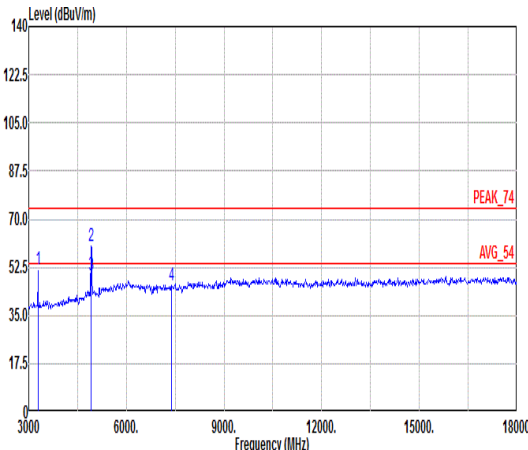
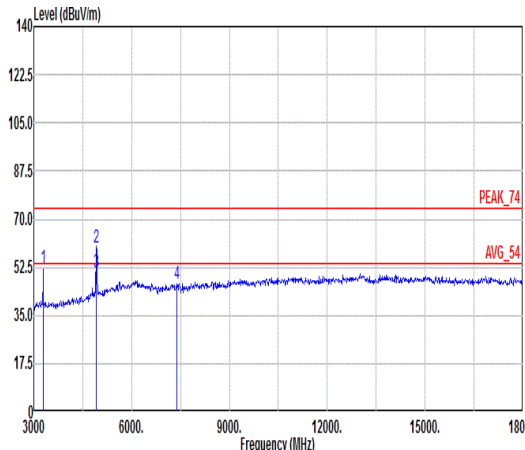


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	Level (dBuV/m) Date: 2025-07-14  AVG_BE_54 Freq Level Line (dB) Read Level Factor Ant Cable Preamp APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2483.62 46.01 54.00 -7.99 41.10 33.56 5.46 34.11 154 123 AVERAGE					Level (dBuV/m) Date: 2025-07-14  AVG_54 Freq Level Line (dB) Read Level Factor Ant Cable Preamp APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2462.00 94.02 ----- 89.22 33.49 5.43 34.12 154 123 AVERAGE					

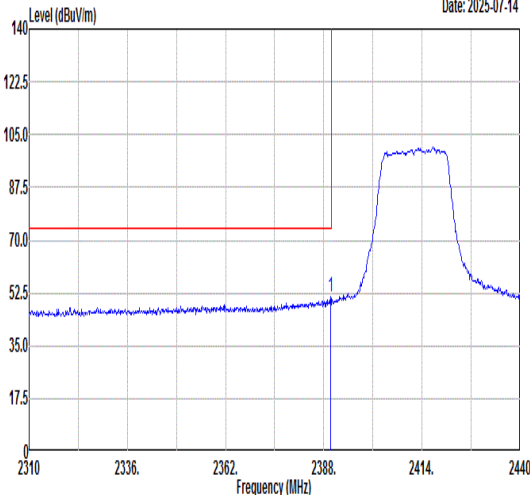
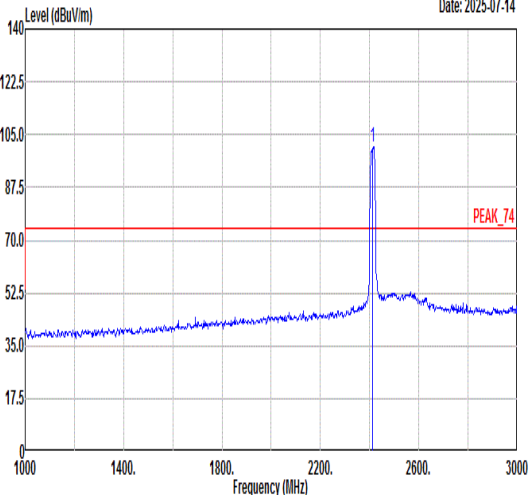
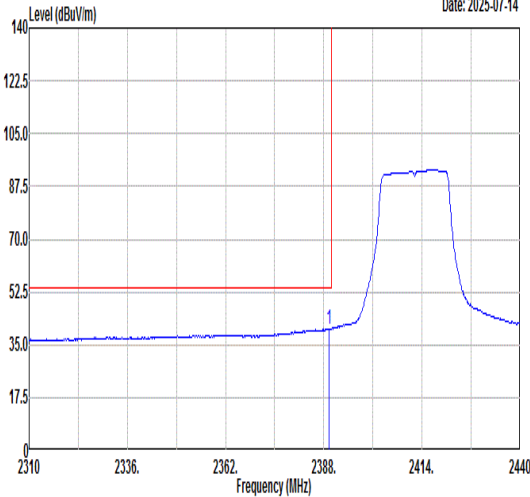
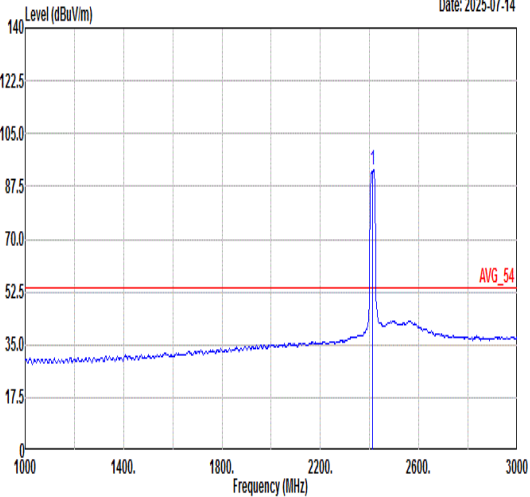


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	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																																																																	
Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark																																																																																
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1	2462.00	98.45	-----	-----	93.65	33.49	5.43	34.12	376 283 PEAK																																																																																
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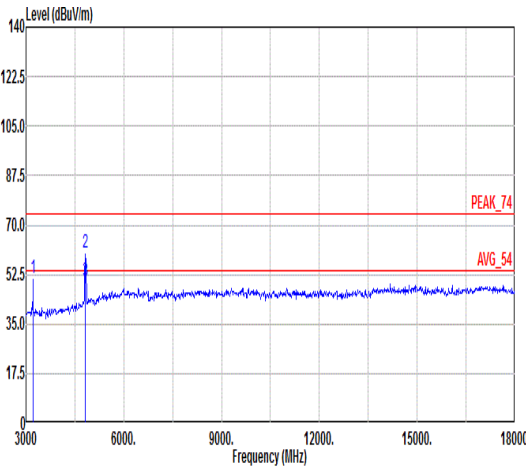
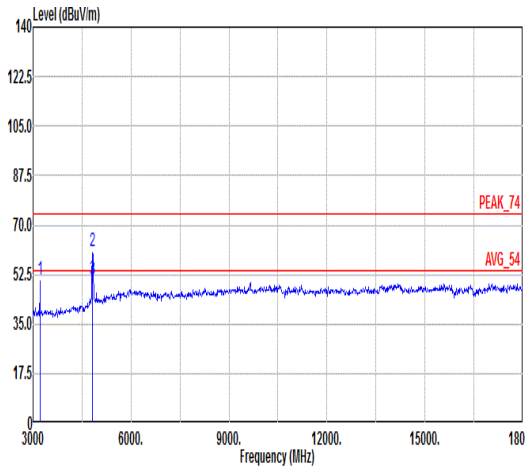


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Peak	 Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a signal peak around 2412 MHz. A red line indicates the limit at 74.00 dBuV/m. The measured level is 51.17 dBuV/m.					 Level (dBuV/m) vs Frequency (MHz) for Fundamental polarization. The plot shows a signal peak around 2412 MHz. A red line indicates the limit at 74.00 dBuV/m. The measured level is 101.12 dBuV/m.																																																																														
		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2389.82	51.17	74.00	-22.83	46.64	33.31	5.36	34.14	111 120 PEAK		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2412.00	101.12	-----	-----	96.47	33.39	5.39	34.13	111 120 PEAK				
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Avg	 Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a signal peak around 2412 MHz. A red line indicates the limit at 54.00 dBuV/m. The measured level is 40.22 dBuV/m.					 Level (dBuV/m) vs Frequency (MHz) for Fundamental polarization. The plot shows a signal peak around 2412 MHz. A red line indicates the limit at 54.00 dBuV/m. The measured level is 93.07 dBuV/m.																																																																														
		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2389.43	40.22	54.00	-13.78	35.69	33.31	5.36	34.14	111 120 AVERAGE		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2412.00	93.07	-----	-----	88.42	33.39	5.39	34.13	111 120 AVERAGE				
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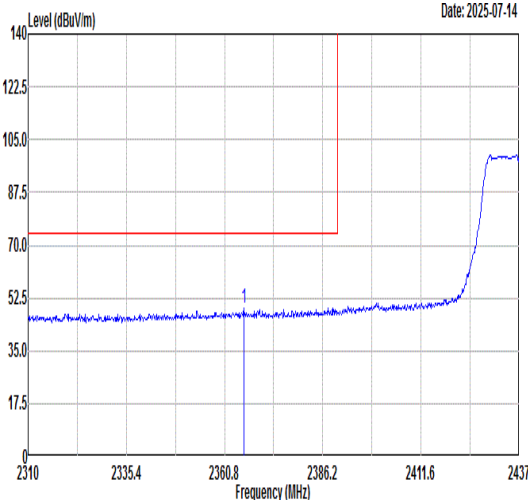
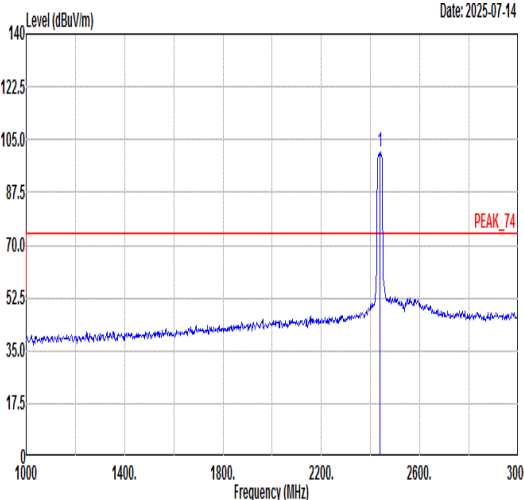
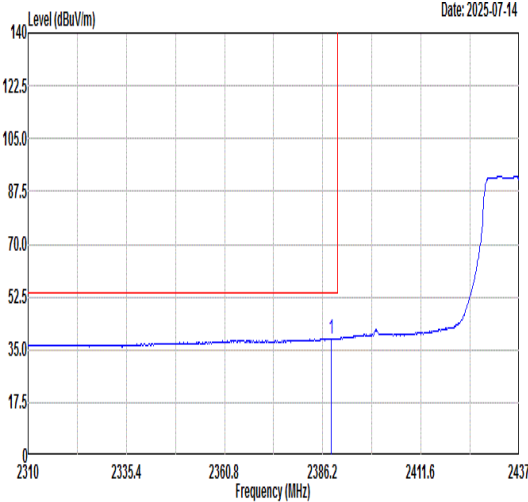
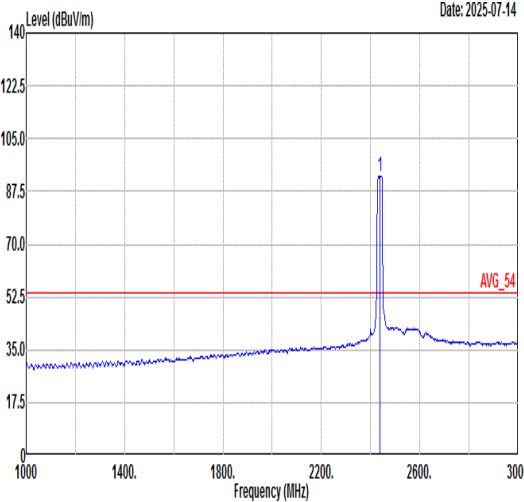


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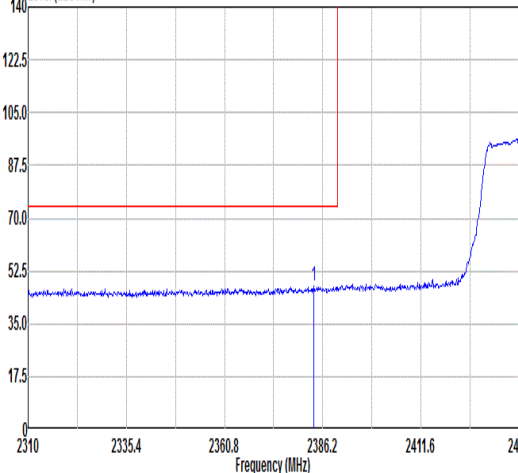
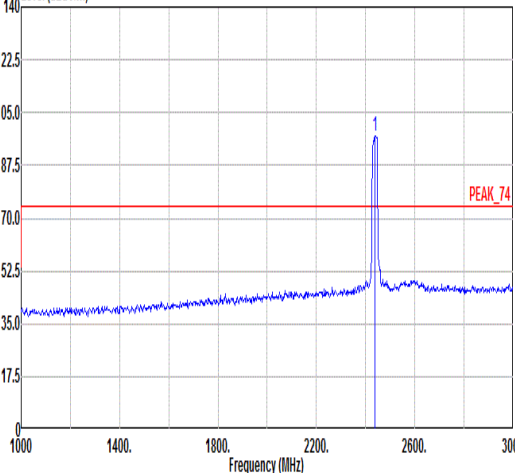
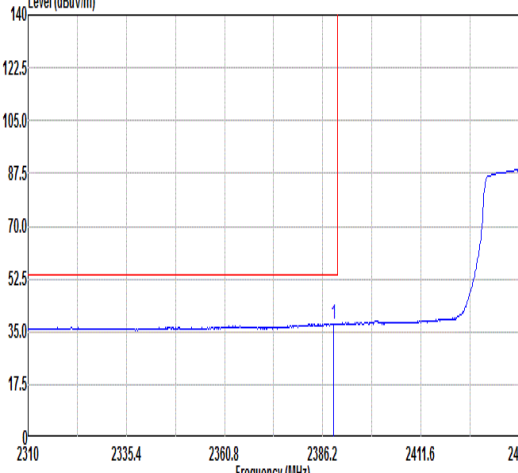
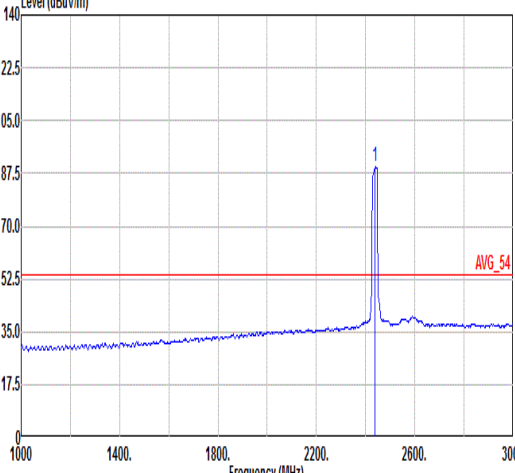


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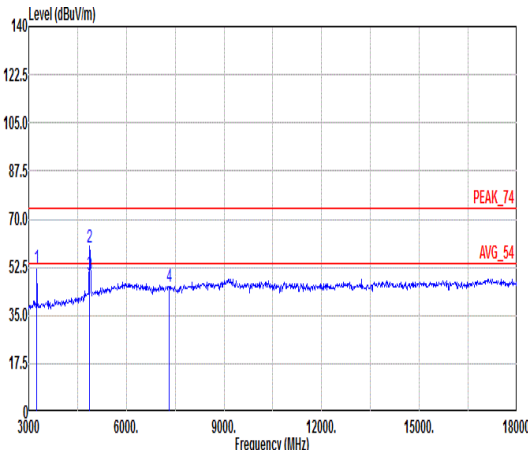
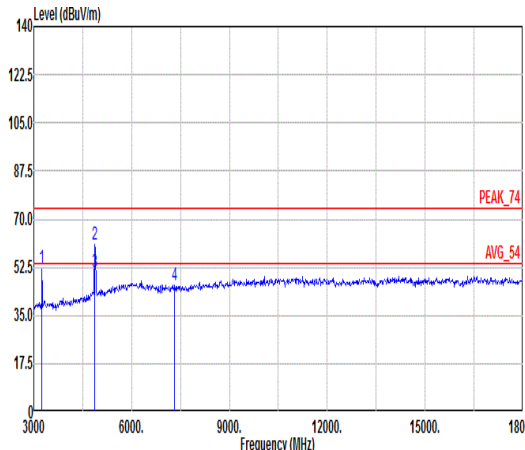


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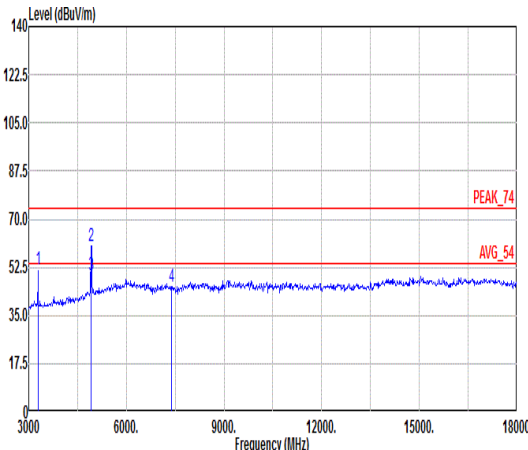
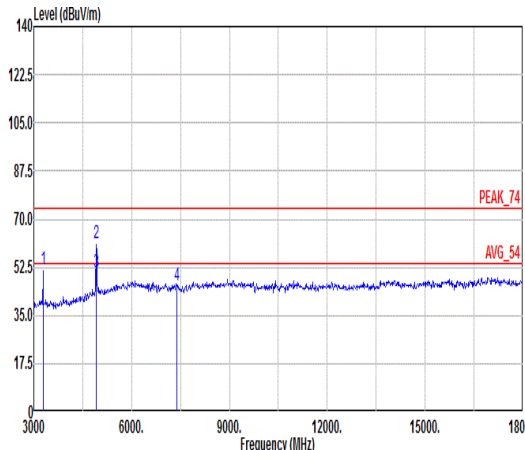


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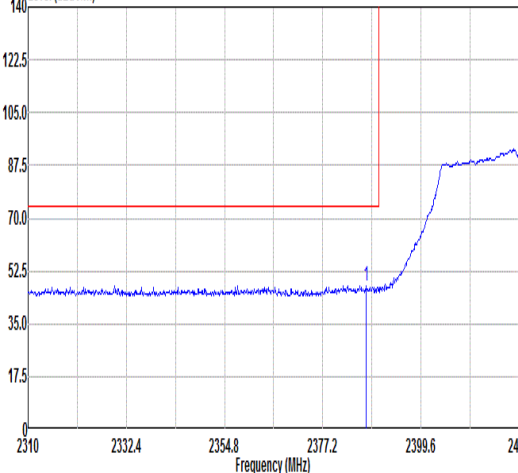
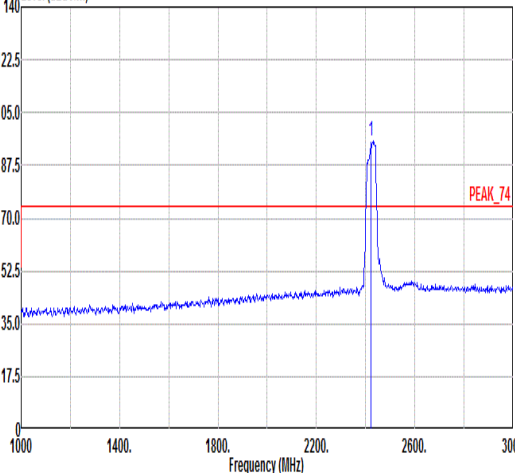
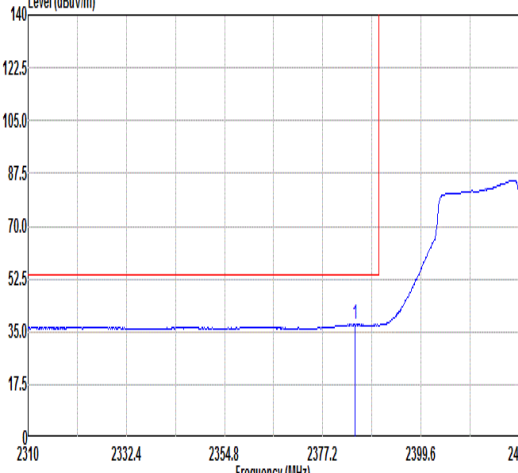
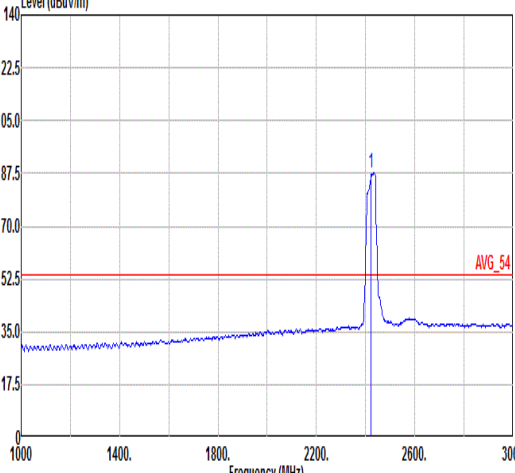


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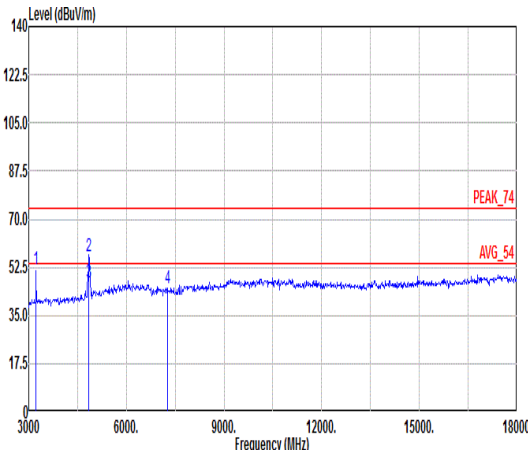
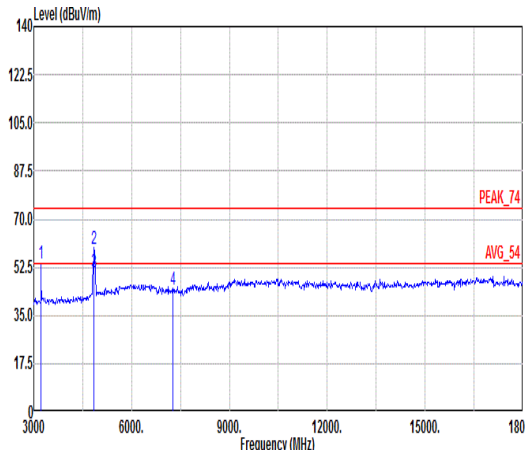


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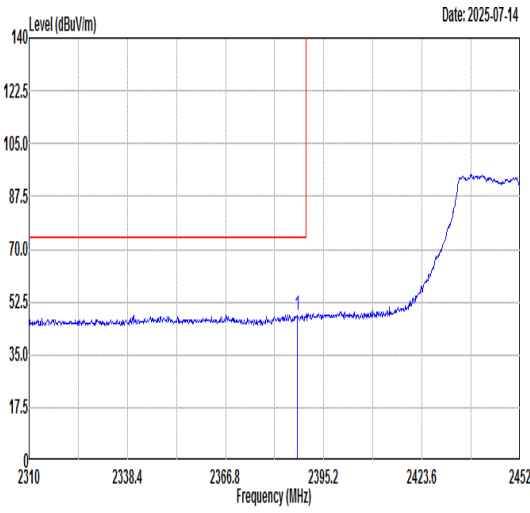
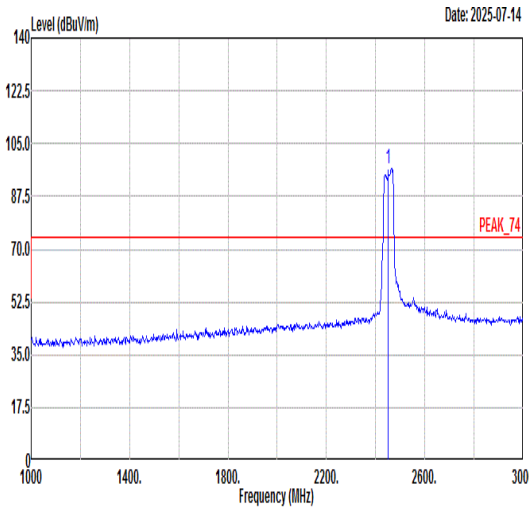
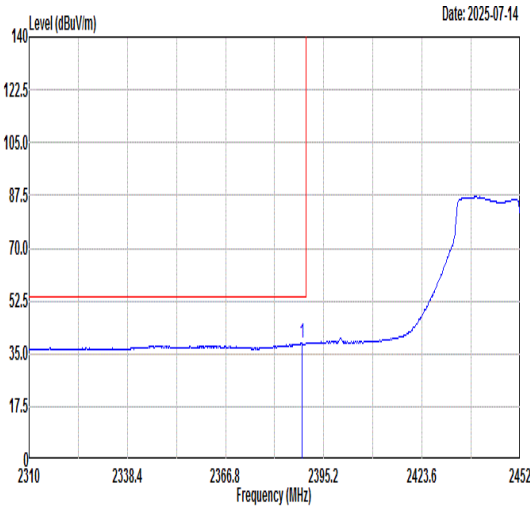
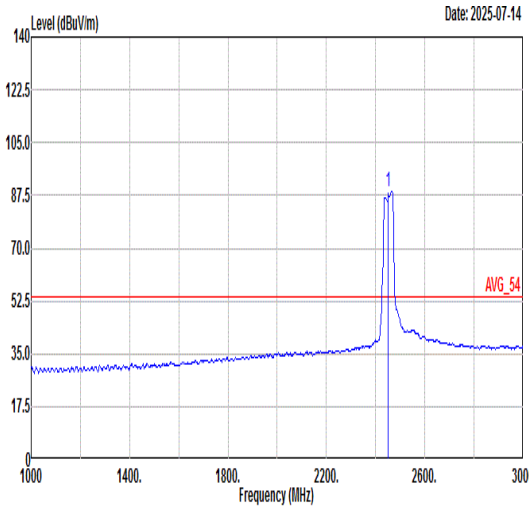


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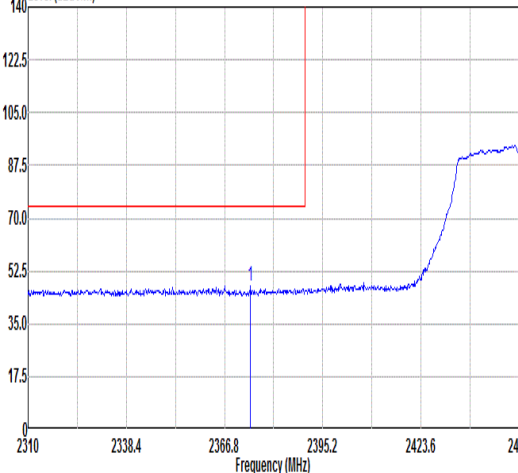
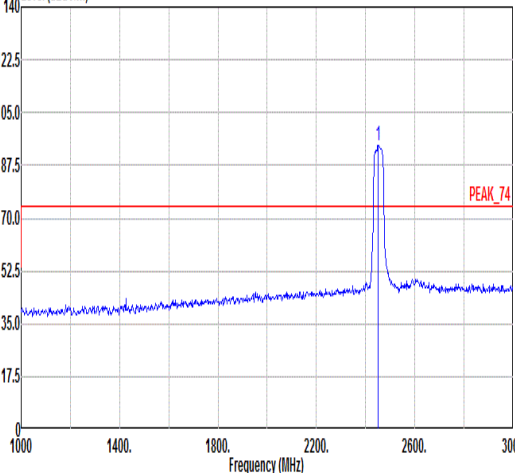
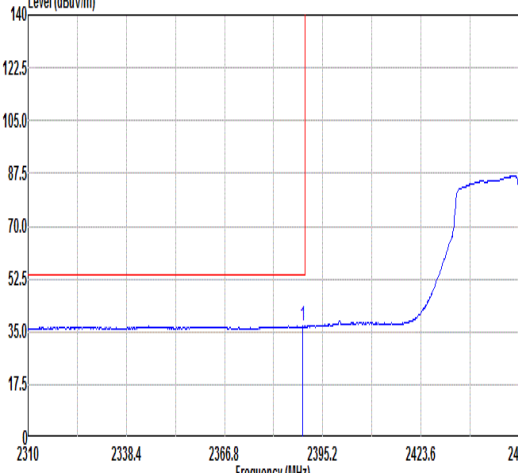
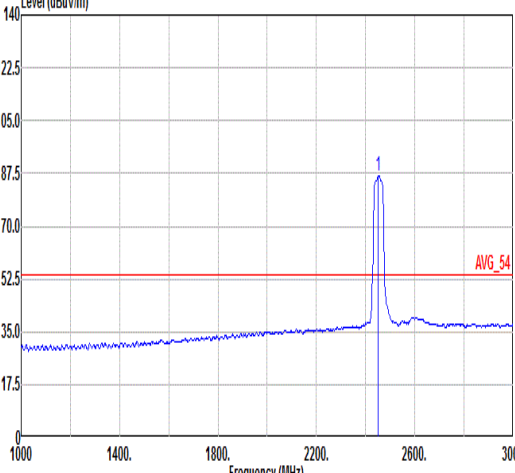


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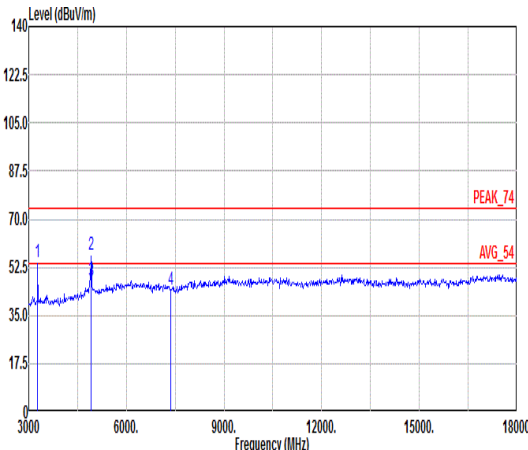
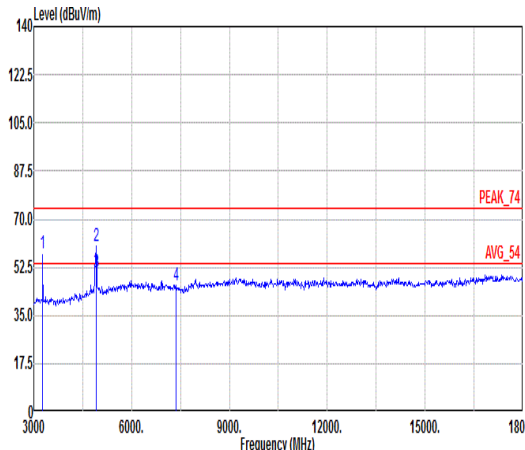


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1	2452.00	86.61	-----	-----	81.82	33.48	5.43	34.12	329	306	AVERAGE																																																																																			

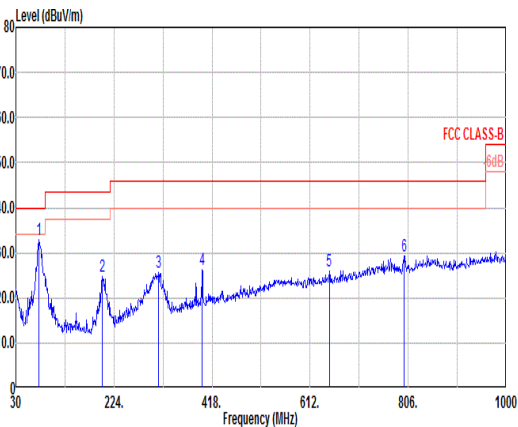
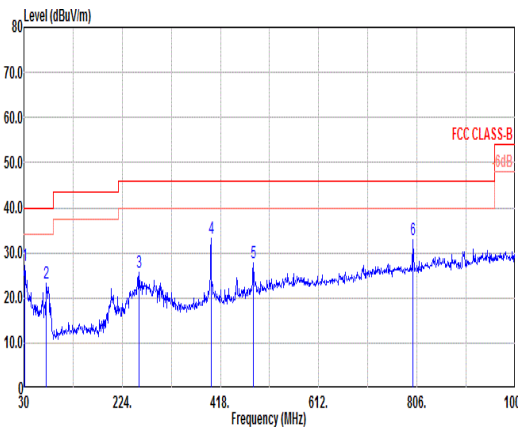


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ANT	SISO									
Pol.	Vertical					Fundamental				
Peak										



Mode	17																																																																																							
	Harmonic																																																																																							
	2400-2483.5_802.11n HT40_CH09_2452MHz																																																																																							
ANT	SISO																																																																																							
Pol.	Horizontal						Vertical																																																																																	
Peak Avg																																																																																								
	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</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>Remark</th></tr><tr><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>cm</th><th>deg</th></tr><tr><td>1</td><td>3270.00</td><td>54.36</td><td>74.00</td><td>-19.64</td><td>79.22</td><td>32.80</td><td>6.61</td><td>64.27</td><td>288</td><td>360</td><td>Peak</td></tr><tr><td>2</td><td>4904.00</td><td>56.82</td><td>74.00</td><td>-17.18</td><td>76.46</td><td>36.55</td><td>8.63</td><td>64.82</td><td>100</td><td>119</td><td>Peak</td></tr><tr><td>3</td><td>4904.00</td><td>47.60</td><td>54.00</td><td>-6.40</td><td>67.24</td><td>36.55</td><td>8.63</td><td>64.82</td><td>100</td><td>119</td><td>Average</td></tr><tr><td>4</td><td>7356.00</td><td>44.54</td><td>74.00</td><td>-29.46</td><td>62.51</td><td>36.84</td><td>10.18</td><td>64.99</td><td>---</td><td>---</td><td>Peak</td></tr></table>													Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	3270.00	54.36	74.00	-19.64	79.22	32.80	6.61	64.27	288	360	Peak	2	4904.00	56.82	74.00	-17.18	76.46	36.55	8.63	64.82	100	119	Peak	3	4904.00	47.60	54.00	-6.40	67.24	36.55	8.63	64.82	100	119	Average	4	7356.00	44.54	74.00	-29.46	62.51	36.84	10.18	64.99	---	---	Peak
	Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																																	
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark																																																																																
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1	3270.00	54.36	74.00	-19.64	79.22	32.80	6.61	64.27	288	360	Peak																																																																													
2	4904.00	56.82	74.00	-17.18	76.46	36.55	8.63	64.82	100	119	Peak																																																																													
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		Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																																																																																																																																																												
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1	75.59	32.99	40.00	-7.01	50.71	13.02	0.87	31.61	---	---	Peak																																																																																																																																																																																																									
2	200.72	24.85	43.50	-18.65	39.89	15.03	1.43	31.50	---	---	Peak																																																																																																																																																																																																									
3	312.27	25.58	46.00	-20.42	35.70	19.61	1.85	31.58	---	---	Peak																																																																																																																																																																																																									
4	398.60	26.17	46.00	-19.83	33.37	22.01	2.10	31.31	---	---	Peak																																																																																																																																																																																																									
5	649.83	25.83	46.00	-20.17	27.64	26.74	2.65	31.20	---	---	Peak																																																																																																																																																																																																									
6	797.27	29.30	46.00	-16.70	28.67	28.79	2.93	31.09	---	---	Peak																																																																																																																																																																																																									
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1	31.94	27.28	40.00	-12.72	34.06	24.25	0.55	31.58	---	---	Peak																																																																																																																																																																																																									
2	74.62	23.12	40.00	-16.88	40.94	12.92	0.86	31.60	---	---	Peak																																																																																																																																																																																																									
3	257.95	25.63	46.00	-20.37	35.75	19.73	1.67	31.52	---	---	Peak																																																																																																																																																																																																									
4	399.57	33.08	46.00	-12.92	40.22	22.06	2.10	31.30	---	---	Peak																																																																																																																																																																																																									
5	482.99	27.81	46.00	-18.19	32.90	23.92	2.29	31.30	---	---	Peak																																																																																																																																																																																																									
6	797.27	32.91	46.00	-13.09	32.28	28.79	2.93	31.09	---	---	Peak																																																																																																																																																																																																									

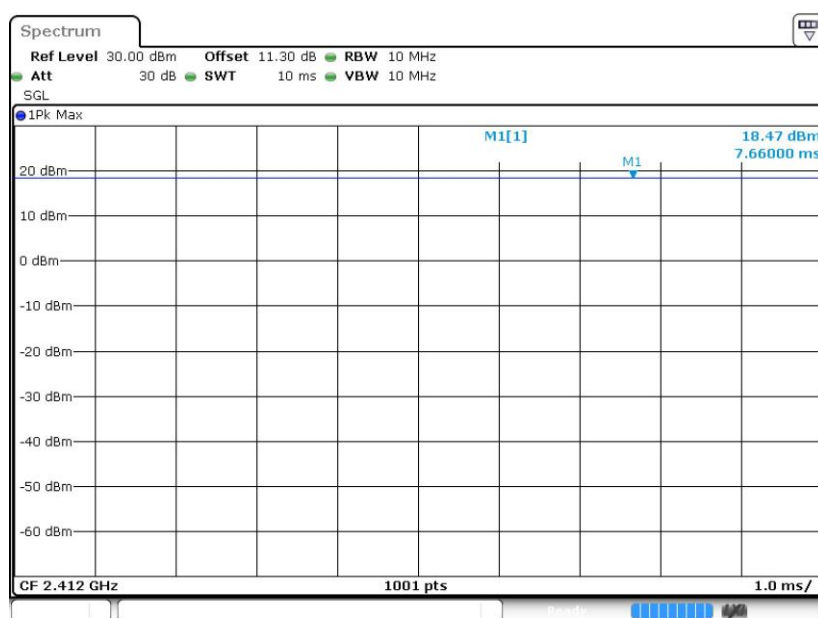


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Pol.	Horizontal										Vertical																																																																																																																																				
Peak Avg	Data: 3 <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>3255.00</td><td>53.51</td><td>-20.49</td><td>74.00</td><td>78.39</td><td>32.76</td><td>6.61</td><td>64.25</td><td>132</td><td>331 Peak</td></tr><tr><td>2 *</td><td>4874.00</td><td>55.26</td><td>-18.74</td><td>74.00</td><td>74.83</td><td>36.50</td><td>8.76</td><td>64.83</td><td>100</td><td>116 Peak</td></tr><tr><td>3</td><td>4874.00</td><td>48.35</td><td>-5.65</td><td>54.00</td><td>67.92</td><td>36.50</td><td>8.76</td><td>64.83</td><td>100</td><td>116 Average</td></tr><tr><td>4</td><td>7311.00</td><td>44.95</td><td>-29.05</td><td>74.00</td><td>62.89</td><td>36.89</td><td>10.18</td><td>65.01</td><td>---</td><td>---</td></tr></tbody></table> Data: 4 <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>3255.00</td><td>53.93</td><td>-20.07</td><td>74.00</td><td>78.81</td><td>32.76</td><td>6.61</td><td>64.25</td><td>112</td><td>91 Peak</td></tr><tr><td>2 *</td><td>4874.00</td><td>58.78</td><td>-15.22</td><td>74.00</td><td>78.35</td><td>36.50</td><td>8.76</td><td>64.83</td><td>100</td><td>290 Peak</td></tr><tr><td>3</td><td>4874.00</td><td>50.59</td><td>-3.41</td><td>54.00</td><td>70.16</td><td>36.50</td><td>8.76</td><td>64.83</td><td>100</td><td>290 Average</td></tr><tr><td>4</td><td>7311.00</td><td>46.30</td><td>-27.70</td><td>74.00</td><td>64.24</td><td>36.89</td><td>10.18</td><td>65.01</td><td>---</td><td>---</td></tr></tbody></table>												Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	3255.00	53.51	-20.49	74.00	78.39	32.76	6.61	64.25	132	331 Peak	2 *	4874.00	55.26	-18.74	74.00	74.83	36.50	8.76	64.83	100	116 Peak	3	4874.00	48.35	-5.65	54.00	67.92	36.50	8.76	64.83	100	116 Average	4	7311.00	44.95	-29.05	74.00	62.89	36.89	10.18	65.01	---	---		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	3255.00	53.93	-20.07	74.00	78.81	32.76	6.61	64.25	112	91 Peak	2 *	4874.00	58.78	-15.22	74.00	78.35	36.50	8.76	64.83	100	290 Peak	3	4874.00	50.59	-3.41	54.00	70.16	36.50	8.76	64.83	100	290 Average	4	7311.00	46.30	-27.70	74.00	64.24	36.89	10.18	65.01	---	---
		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																																				
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1	3255.00	53.93	-20.07	74.00	78.81	32.76	6.61	64.25	112	91 Peak																																																																																																																																					
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3	4874.00	50.59	-3.41	54.00	70.16	36.50	8.76	64.83	100	290 Average																																																																																																																																					
4	7311.00	46.30	-27.70	74.00	64.24	36.89	10.18	65.01	---	---																																																																																																																																					

Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	100	-	-	10Hz
802.11g	100	-	-	10Hz
802.11n HT20	100	-	-	10Hz
802.11n HT40	100	-	-	10Hz

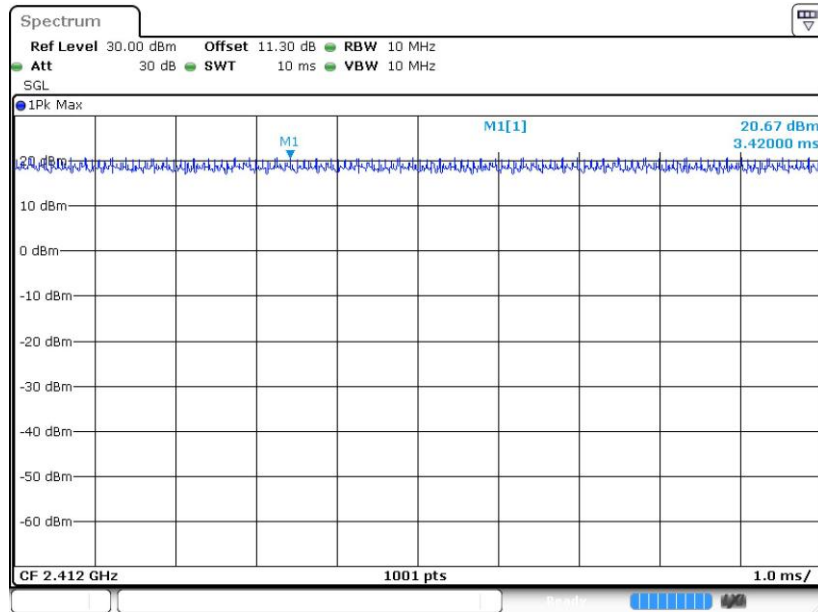
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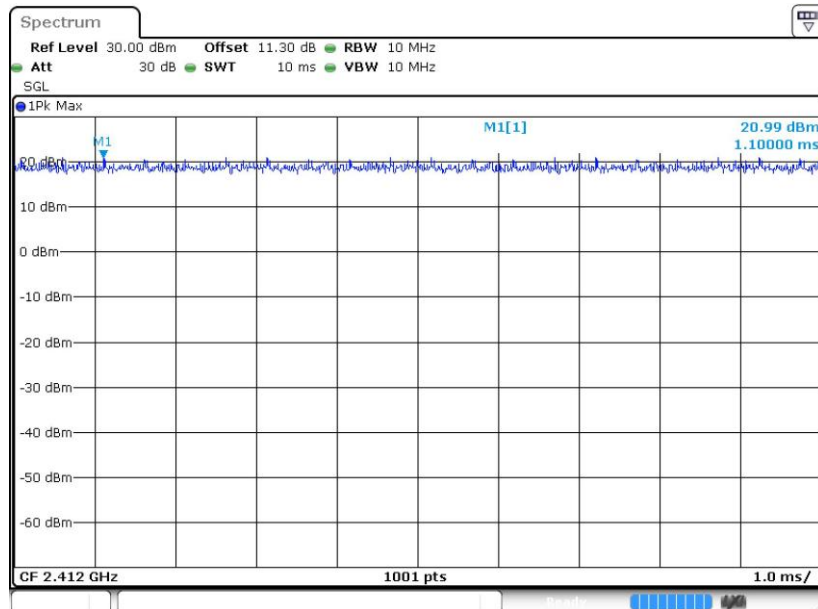


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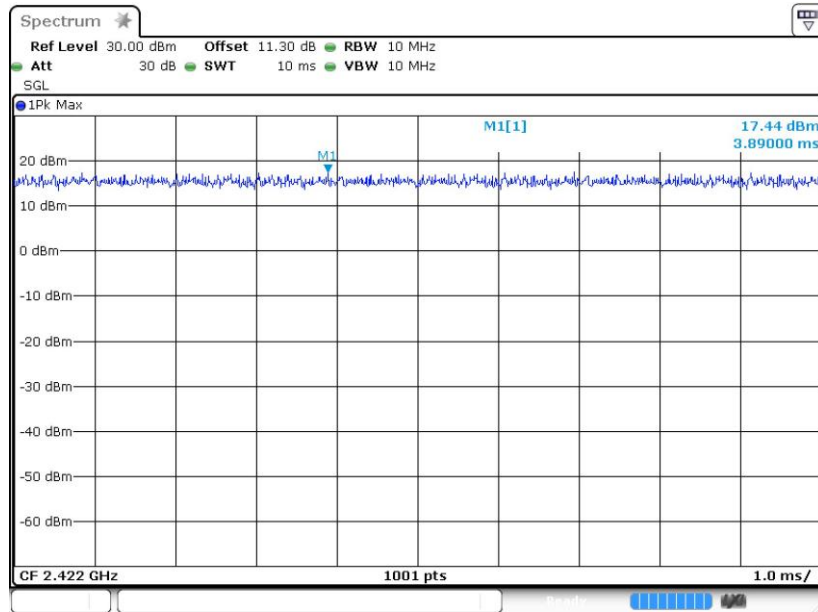
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