

CFR 47 FCC PART 15 SUBPART C(DTS)

TEST REPORT

For

Smart Projector

MODEL NUMBER: A5 Pro, P1, P1 PRO, P1 Max, P2, P2 PRO, P2 Max, P3, P3 PRO, P3 Max, P5, P5 PRO, P5 Max, P6, P6 PRO, P6 Max, P7, P7 PRO, P7 Max, P8, P8 PRO, P8 Max, P9, P9 PRO, P9 Max, P10, P10 PRO, P10 Max, P11, P11 PRO, P11 Max, P12, P12 PRO, P12 Max, P20, P20 PRO, P20 Max, P30, P30 PRO, P30 Max, P60, P60 Pro, P60 Max, P100, P100 Pro, P100 Max. A10 PRO, N1, N1 PRO, N1 Max, N2, N2 PRO, N2 Max, N3, N3 PRO, N3 Max, N5, N5 PRO, N5 Max, N6, N6 PRO, N6 Max, N7, N7 PRO, N7 Max, N8, N8 PRO, N8 Max, N9, N9 PRO, N9 Max, N10, N10 PRO, N10 Max, N11, N11 PRO, N11 Max, N12, N12 PRO, N12 Max, N20, N20 PRO, N20 Max, N30, N30 PRO, N30 Max, N60, N60 Pro, N60 Max, N100, N100 Pro, A10, PDA10B

REPORT NUMBER: E04A25041547F00303

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FCC ID: 2BM4Z-A5PRO

Prepared for

Shenzhen Dongying Optoelectronics Co., Ltd.

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Baoan District, Shenzhen Guangdong Province, China**

Prepared by

Guangdong Global Testing Technology Co., Ltd.

**Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park,
Dongguan city, Guangdong, People's Republic of China, 523808**

This report is based on a single evaluation of the submitted sample(s) of the above mentioned product, it does not imply an assessment of the production of the products.

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Guangdong Global Testing Technology Co., Ltd.**

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	June 28, 2025	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.1.3	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.2	FCC Part 15.247 (e)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d)	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.11 & Clause 11.12	FCC Part 15.205/15.209	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C(DTS)> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Shenzhen Dongying Optoelectronics Co., Ltd.
Address: 3rd Floor, Building 2, No. 42, Di Tang Road, Shajing Street,
Shasan Community, Baoan District, Shenzhen Guangdong
Province, China

Manufacturer Information

Company Name: Shenzhen Dongying Optoelectronics Co., Ltd.
Address: 3rd Floor, Building 2, No. 42, Di Tang Road, Shajing Street,
Shasan Community, Baoan District, Shenzhen Guangdong
Province, China

EUT Information

Product Description: Smart Projector
Model: A5 Pro, A10 PRO
Series Model: P1, P1 PRO, P1 Max, P2, P2 PRO, P2 Max, P3, P3 PRO, P3
Max, P5, P5 PRO, P5 Max, P6, P6 PRO, P6 Max, P7, P7 PRO,
P7 Max, P8, P8 PRO, P8 Max, P9, P9 PRO, P9 Max, P10, P10
PRO, P10 Max, P11, P11 PRO, P11 Max, P12, P12 PRO, P12
Max, P20, P20 PRO, P20 Max, P30, P30 PRO, P30 Max, P60,
P60 Pro, P60 Max, P100, P100 Pro, P100 Max. N1, N1 PRO, N1
Max, N2, N2 PRO, N2 Max, N3, N3 PRO, N3 Max, N5, N5 PRO,
N5 Max, N6, N6 PRO, N6 Max, N7, N7 PRO, N7 Max, N8, N8
PRO, N8 Max, N9, N9 PRO, N9 Max, N10, N10 PRO, N10 Max,
N11, N11 PRO, N11 Max, N12, N12 PRO, N12 Max, N20, N20
PRO, N20 Max, N30, N30 PRO, N30 Max, N60, N60 Pro, N60
Max, N100, N100 Pro, A10, PDA10B
Brand: N/A
Sample Received Date: June 04, 2025
Sample Status: Normal
Sample ID: A25041547 003
Date of Tested: June 04, 2025 to June 23, 2025

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C(DTS)	Pass

Prepared By:

Poal Chen

Poal Chen

Project Engineer

Checked By:

Alan He

Alan He

Laboratory Leader

Approved By:

Shawn Wen

Shawn Wen

Laboratory Manager



2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C(DTS)

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.
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Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Items	k	Uncertainty
DTS Bandwidth	1.96	±9.2 PPM
20dB Emission Bandwidth	1.96	±9.2 PPM
Carrier Frequency Separation	1.96	±9.2 PPM
Time of Occupancy	1.96	±0.57%
Conducted Output Power	1.96	±1.5 dB
Power Spectral Density Level	1.96	±1.9 dB
Conducted Spurious Emission	1.96	9 kHz-30 MHz: ± 0.95 dB 30 MHz-1 GHz: ± 1.5 dB 1GHz-12.75GHz: ± 1.8 dB 12.75 GHz-26.5 GHz: ± 2.1dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.		

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions from the AC mains power ports (AMN)	150 kHz ~ 30 MHz	2	3.37
Radiated emissions	9 kHz ~ 30 MHz	2	4.16
Radiated emissions	30 MHz ~ 1 GHz	2	3.79
Radiated emissions	1 GHz ~ 18 GHz	2	5.62
Radiated emissions	18 GHz ~ 40 GHz	2	5.54
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		Smart Projector
Model		A5 Pro, A10 PRO
Series Model		P1, P1 PRO, P1 Max, P2, P2 PRO, P2 Max, P3, P3 PRO, P3 Max, P5, P5 PRO, P5 Max, P6, P6 PRO, P6 Max, P7, P7 PRO, P7 Max, P8, P8 PRO, P8 Max, P9, P9 PRO, P9 Max, P10, P10 PRO, P10 Max, P11, P11 PRO, P11 Max, P12, P12 PRO, P12 Max, P20, P20 PRO, P20 Max, P30, P30 PRO, P30 Max, P60, P60 Pro, P60 Max, P100, P100 Pro, P100 Max. N1, N1 PRO, N1 Max, N2, N2 PRO, N2 Max, N3, N3 PRO, N3 Max, N5, N5 PRO, N5 Max, N6, N6 PRO, N6 Max, N7, N7 PRO, N7 Max, N8, N8 PRO, N8 Max, N9, N9 PRO, N9 Max, N10, N10 PRO, N10 Max, N11, N11 PRO, N11 Max, N12, N12 PRO, N12 Max, N20, N20 PRO, N20 Max, N30, N30 PRO, N30 Max, N60, N60 Pro, N60 Max, N100, N100 Pro, A10, PDA10B
Model Difference		The differences between A5 Pro and A10 PRO are as follows: (1) The appearance of the stands is different. The stand of A5 Pro has a speaker. (2) The parameters of the speakers are not the same. (3) The positions of the buttons are not the same.
Hardware Version		V1.0
Software Version		V1.0
Ratings		100-240V~; 50/60Hz, 1.0A
Power Supply	AC	120VAC/60Hz

Frequency Band:		2400 MHz to 2483.5 MHz
Frequency Range:		2412 MHz to 2462 MHz
Support Standards:		IEEE 802.11b/g/n /ax
Type of Modulation:		IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11ax: OFDMA(1024-QAM, 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK)
Data Rate:		IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n: Up to MCS15 IEEE 802.11ax: Up to MCS11
Number of Channels:		IEEE 802.11b/g/n-HT20/ ax HE20: 11 IEEE 802.11n-HT40/ ax HE40: 7
Maximum Peak Power:		IEEE 802.11b: 16.1 dBm IEEE 802.11g: 15.93 dBm IEEE 802.11n HT20: 15.8 dBm IEEE 802.11n HT40: 15.34 dBm IEEE 802.11ax HE20: 15.99 dBm IEEE 802.11ax HE40: 15.14 dBm
Antenna Type:		Integral Antenna
Antenna Gain:		2.19dBi

Normal Test Voltage:	120VAC/60Hz
EUT Test software:	SecureCRT.exe
Note:	The Antenna Gain was provided by customer, and this information may affect the validity of the results, customer should be responsible for this.

5.2. CHANNEL LIST

Channel List for 802.11b/g/n/ax (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452	/	/

Channel List for 802.11n/ax (40 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	5	2432	7	2442	9	2452
4	2427	6	2437	8	2447	/	/

5.3. MAXIMUM PEAK OUTPUT POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted Output Power (dBm)
b	2412 ~ 2462	1-11[11]	16.1
g	2412 ~ 2462	1-11[11]	15.93
n HT20	2412 ~ 2462	1-11[11]	15.8
n HT40	2422 ~ 2452	3-9[7]	15.34
ax HE20	2412 ~ 2462	1-11[11]	15.99
ax HE40	2422 ~ 2452	3-9[7]	15.14

5.4. TEST CHANNEL CONFIGURATION

IEEE Std. 802.11	Test Channel Number	Frequency
b	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
g	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz
ax HE20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
ax HE40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		SecureCRT.exe					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	1	13	13	13	/		
802.11g	1	9	9	9			
802.11n HT20	1	8	8	8			
ax HE20	1	8	8	8			
802.11n HT40	1	/			8	8	8
ax HE40	1				7	7	7

WORST-CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps
 802.11g mode: 6 Mbps
 802.11n HT20 mode: MCS8
 802.11n HT40 mode: MCS8
 802.11ax HE20 mode: MCS0
 802.11ax HE40 mode: MCS0

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	Internal antenna	2.19

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	☒ TX, RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	☒ TX, RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	☒ TX, RX	ANT 1 can be used as transmitting/receiving antenna.

IEEE 802.11n HT40	☒ TX, RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE20	☒ TX, RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE40	☒ TX, RX	ANT 1 can be used as transmitting/receiving antenna.

5.7. SUPPORT UNITS FOR SYSTEM TEST

The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	PC	Lenovo	B4650-D002	M90601U3	GTG Support

The following cables were used to form a representative test configuration during the tests.

Item	Type of cable	Shielded Type	Ferrite Core	Length
C-1	USB cable	Shielded	without ferrite	1.0 m

5.8. SETUP DIAGRAM

Radiated emissions:



6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted RF					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2024/09/14	2025/09/13
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2024/09/14	2025/09/13
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2024/09/14	2025/09/13
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2024/09/14	2025/09/13
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2024/09/14	2025/09/13
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2024/09/14	2025/09/13
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2024/09/14	2025/09/13
temperature humidity chamber	Espec	SH-241	SH-241-2014	2024/09/14	2025/09/13
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2024/09/14	2025/09/13
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2024/09/14	2025/09/13
Pre-Amplifier	HzEMC	HPA-9K0130	HYP A21001	2024/09/14	2025/09/13
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09
Biconilog Antenna	ETS	3142E	00243651	2025/02/22	2028/02/21
Loop Antenna	ETS	6502	00243668	2025/02/22	2028/02/21
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

Test Equipment of Radiated emissions above 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2149	2022/08/30	2025/08/29
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2024/09/14	2025/09/13
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2024/09/14	2025/09/13
Pre-Amplifier	HzEMC	HPA-1G1850	HYP A21003	2024/09/14	2025/09/13
Horn antenna	ETS	3117	00246069	2025/02/22	2028/02/21
Pre-Amplifier	HzEMC	HPA-184057	HYP A21004	2024/09/14	2025/09/13

Horn antenna	ETS	3116C	00246265	2025/02/22	2028/02/21
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE+)	N/A	N/A	N/A

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2024/09/14	2025/09/13
LISN/AMN	Rohde & Schwarz	ENV216	102843	2024/09/14	2025/09/13
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2024/09/14	2025/09/13
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

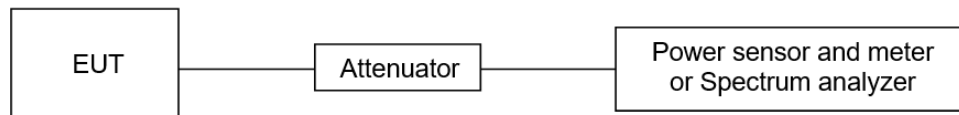
CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3)	Peak Conduct Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor and meter or Spectrum analyzer (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.2°C	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix C

7.2. 6DB BANDWIDTH OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5

TEST PROCEDURE

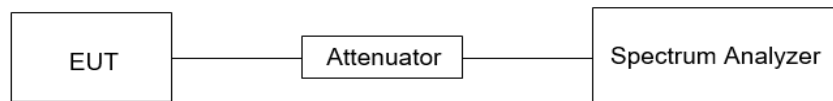
Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz
VBW	For 6 dB Bandwidth: $\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

a) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission..

TEST SETUP



TEST ENVIRONMENT

Temperature	25.2°C	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix C

7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.

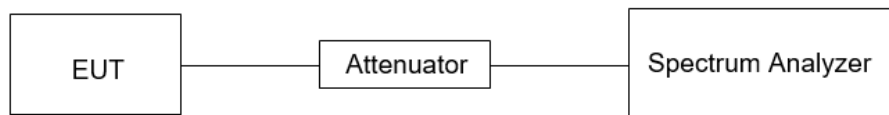
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.2°C	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix C

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{DTS bandwidth}$
Trace	Max hold
Sweep time	Auto couple.

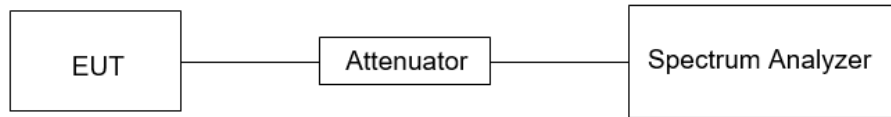
Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.2°C	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix C

7.5. DUTY CYCLE

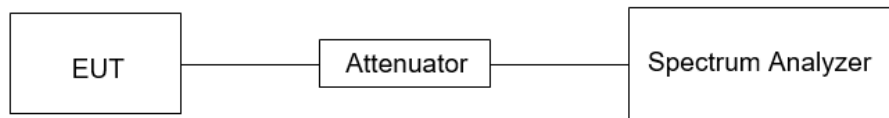
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.2°C	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix C

8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
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

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
2. The EUT was arranged to its worst case and then 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. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
8. measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, W dB, to the limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.

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. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm 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. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

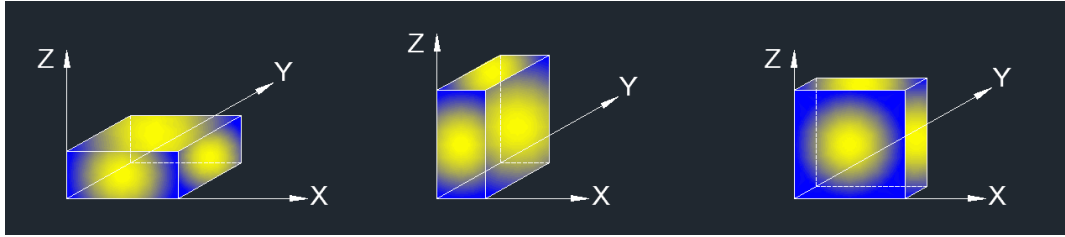
Above 1G

The setting of the spectrum analyser

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

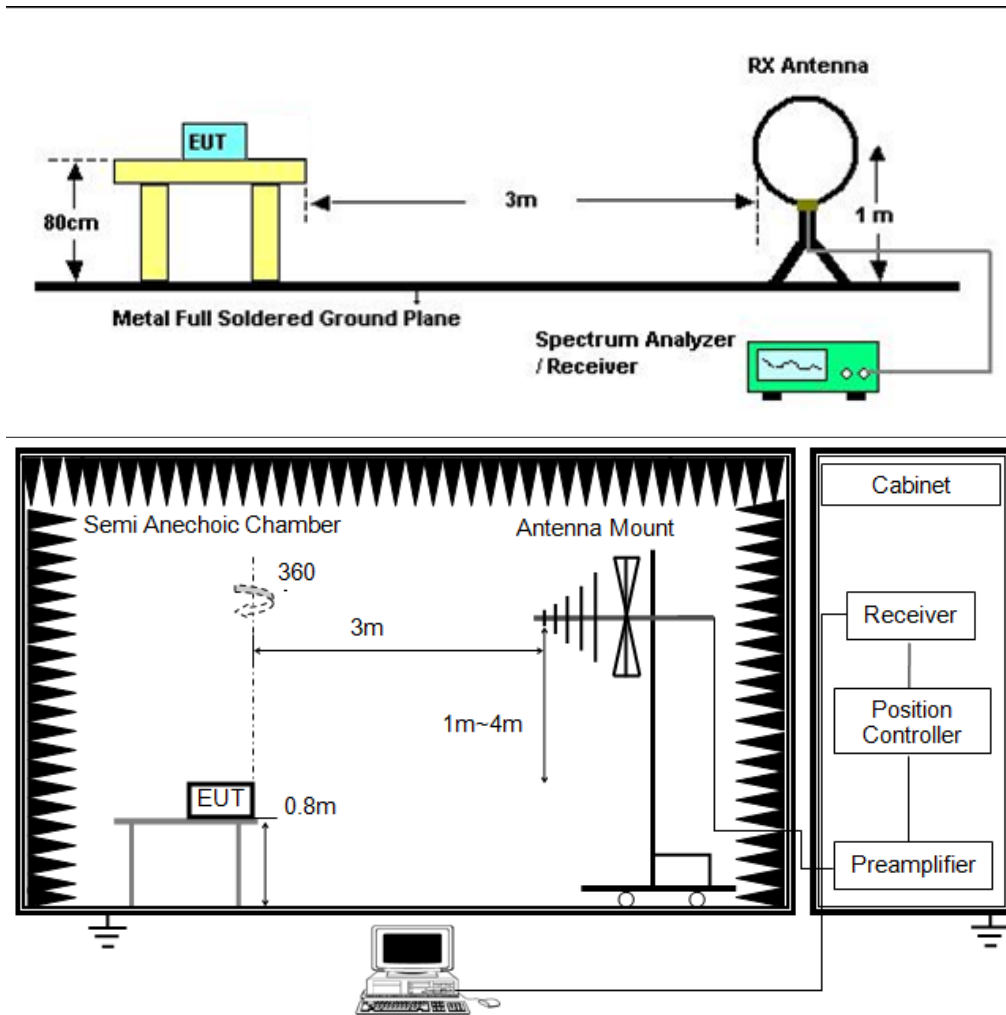
1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m 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. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

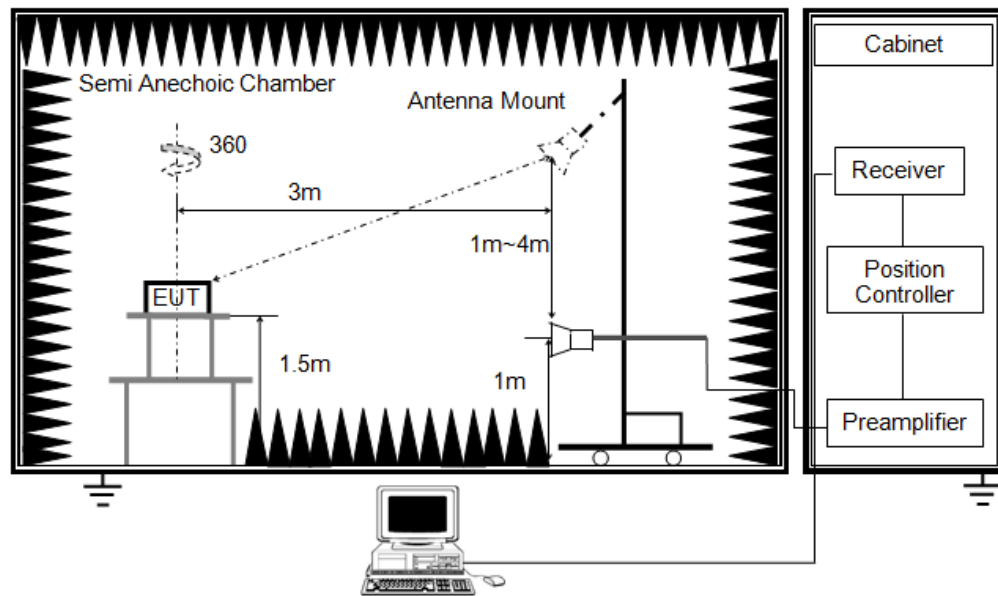
X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST SETUP



**TEST ENVIRONMENT**

Temperature	22.3°C	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

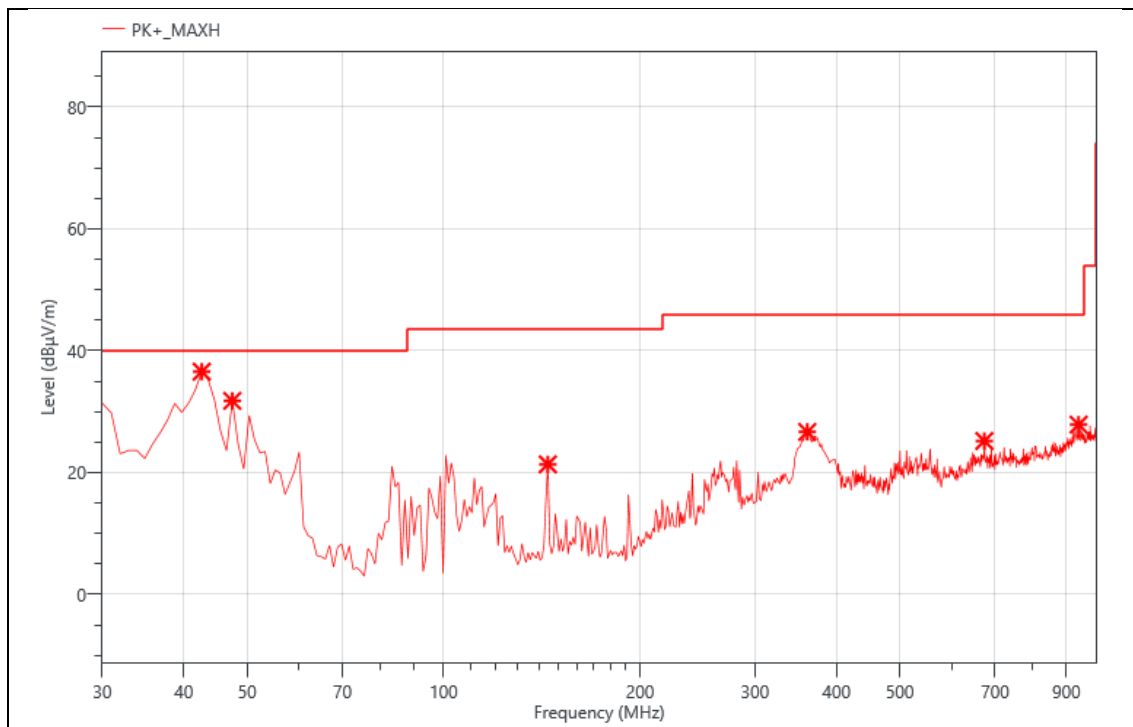
8.1. RADIATED BAND EDGE AND SPURIOUS EMISSION

Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)

All modes have been tested and the worst result as bellow:

Model: A5 Pro

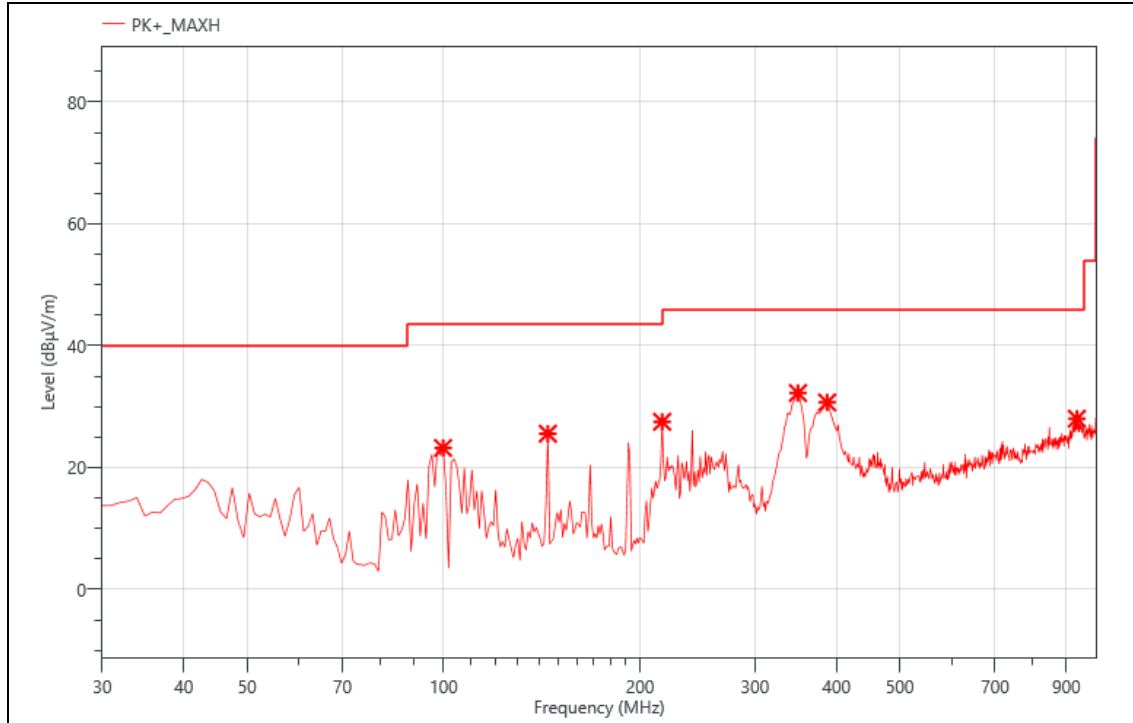
Mode:	11B-2412
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/09
T/A/P	22.3°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	42.610	58.05	-21.48	36.57	40.00	3.43	PK+	V
2	47.460	54.93	-23.15	31.78	40.00	8.22	PK+	V
3	144.460	44.31	-22.95	21.36	43.50	22.14	PK+	V
4	360.770	42.33	-15.65	26.68	46.00	19.32	PK+	V
5	674.080	32.53	-7.34	25.19	46.00	20.81	PK+	V
6	939.860	30.04	-2.16	27.88	46.00	18.12	PK+	V

Mode:	11B-2412
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/09
T/A/P	22.3°C/53%/101Kpa

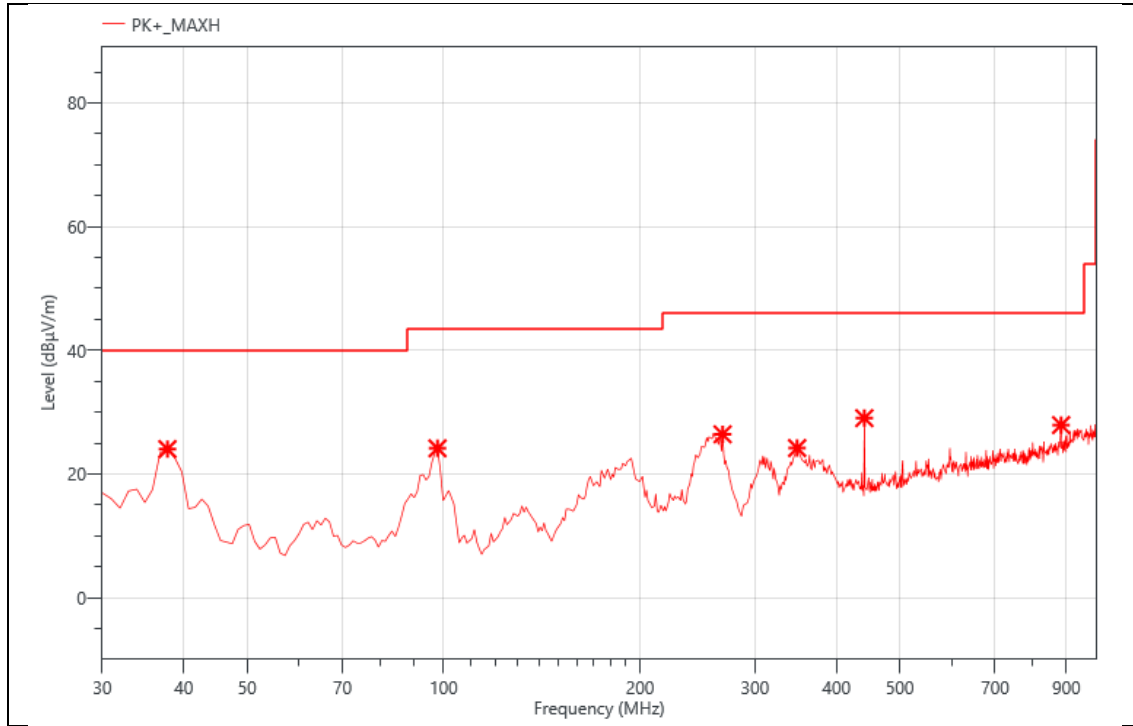


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	99.840	47.28	-24.05	23.23	43.50	20.27	PK+	H
2	144.460	48.52	-22.95	25.57	43.50	17.93	PK+	H
3	216.240	48.25	-20.73	27.52	46.00	18.48	PK+	H
4	349.130	48.51	-16.26	32.25	46.00	13.75	PK+	H
5	386.960	44.86	-14.15	30.71	46.00	15.29	PK+	H
6	934.040	30.19	-2.16	28.03	46.00	17.97	PK+	H

Model: A10 PRO

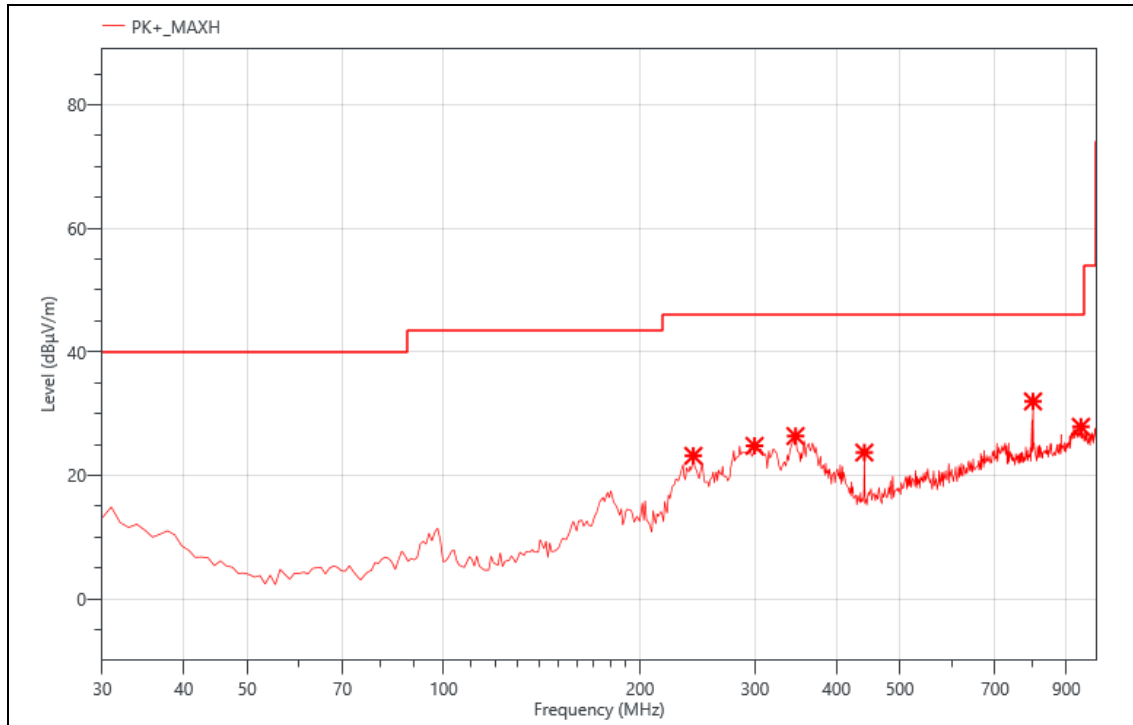
Mode:	11B-2412
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/19
T/A/P	22.3°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	37.760	42.88	-18.85	24.03	40.00	15.97	PK+	V
2	97.900	48.44	-24.29	24.15	43.50	19.35	PK+	V
3	267.650	44.69	-18.27	26.42	46.00	19.58	PK+	V
4	348.160	40.51	-16.32	24.19	46.00	21.81	PK+	V
5	441.280	43.08	-14.05	29.03	46.00	16.97	PK+	V
6	883.600	32.32	-4.41	27.91	46.00	18.09	PK+	V

Mode:	11B-2412
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/19
T/A/P	22.3°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	241.460	42.28	-19.12	23.16	46.00	22.84	PK+	H
2	299.660	43.45	-18.68	24.77	46.00	21.23	PK+	H
3	346.220	42.77	-16.41	26.36	46.00	19.64	PK+	H
4	441.280	37.74	-14.05	23.69	46.00	22.31	PK+	H
5	800.180	37.73	-5.76	31.97	46.00	14.03	PK+	H
6	947.620	30.13	-2.27	27.86	46.00	18.14	PK+	H

Note:

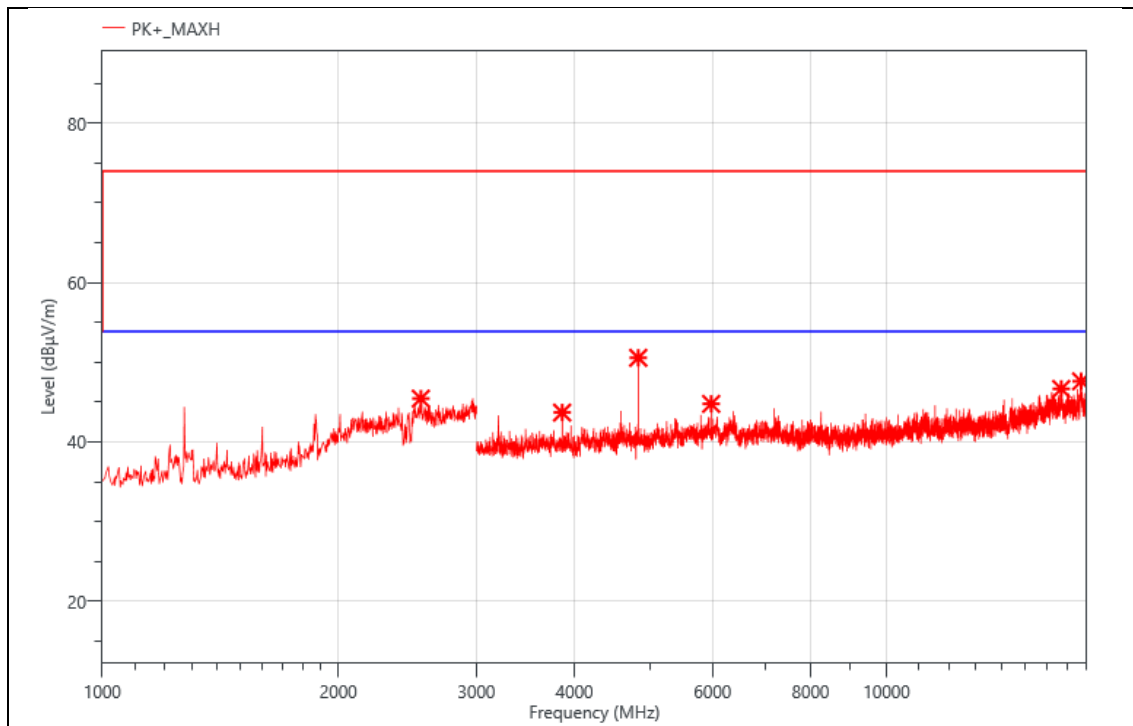
1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

All modes have been tested and the worst result as bellow:

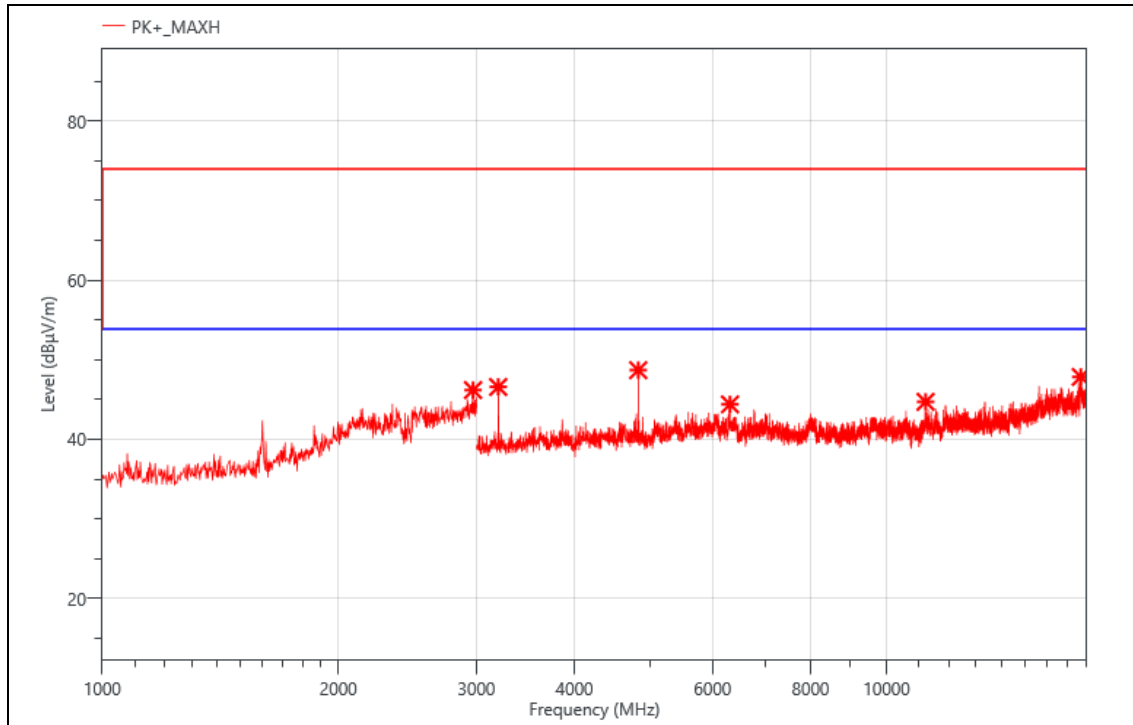
Model: A5 Pro

Mode:	11B-2412
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/18
T/A/P	22.3°C/53%/101Kpa

**Critical_Freqs**

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2548.000	53.65	-8.22	45.43	74.00	28.57	PK+	V
2	3858.000	56.98	-13.31	43.67	74.00	30.33	PK+	V
3	4824.000	62.01	-11.47	50.54	74.00	23.46	PK+	V
4	5976.000	53.68	-8.92	44.76	74.00	29.24	PK+	V
5	16702.500	47.23	-0.59	46.64	74.00	27.36	PK+	V
6	17706.000	47.54	0.05	47.59	74.00	26.41	PK+	V

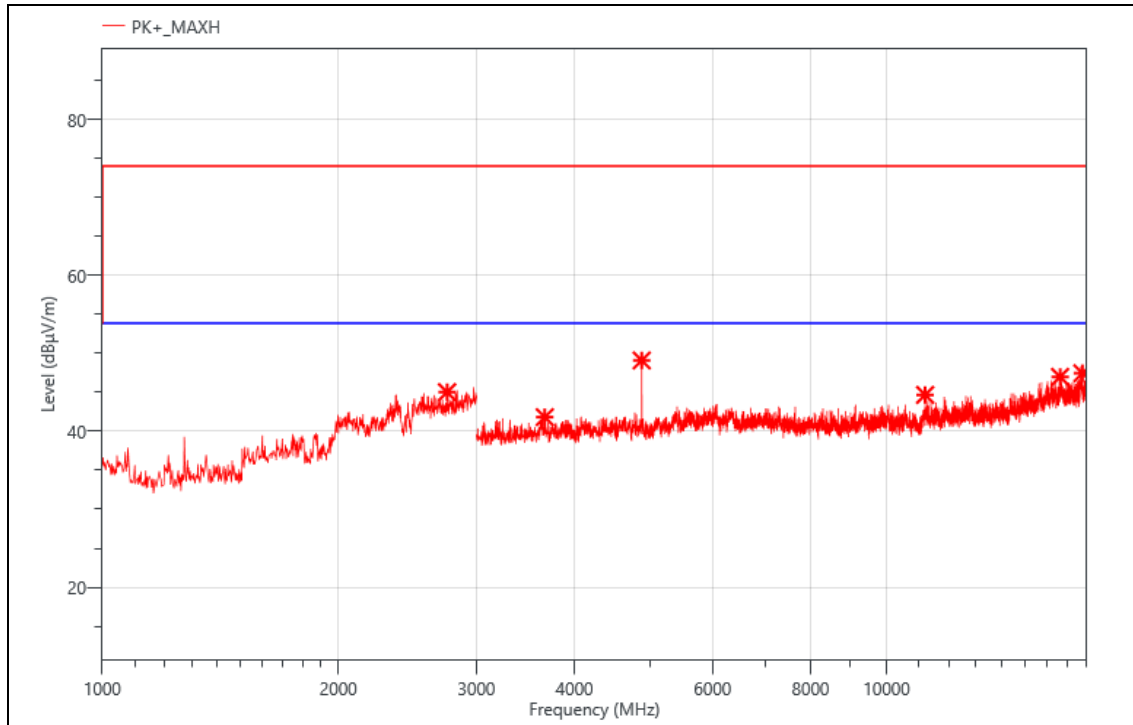
Mode:	11B-2412
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/18
T/A/P	22.3°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2970.000	53.34	-7.16	46.18	74.00	27.82	PK+	H
2	3198.000	61.37	-14.8	46.57	74.00	27.43	PK+	H
3	4824.000	60.15	-11.47	48.68	74.00	25.32	PK+	H
4	6315.000	52.03	-7.65	44.38	74.00	29.62	PK+	H
5	11214.000	48.85	-4.15	44.70	74.00	29.30	PK+	H
6	17686.500	47.58	0.25	47.83	74.00	26.17	PK+	H

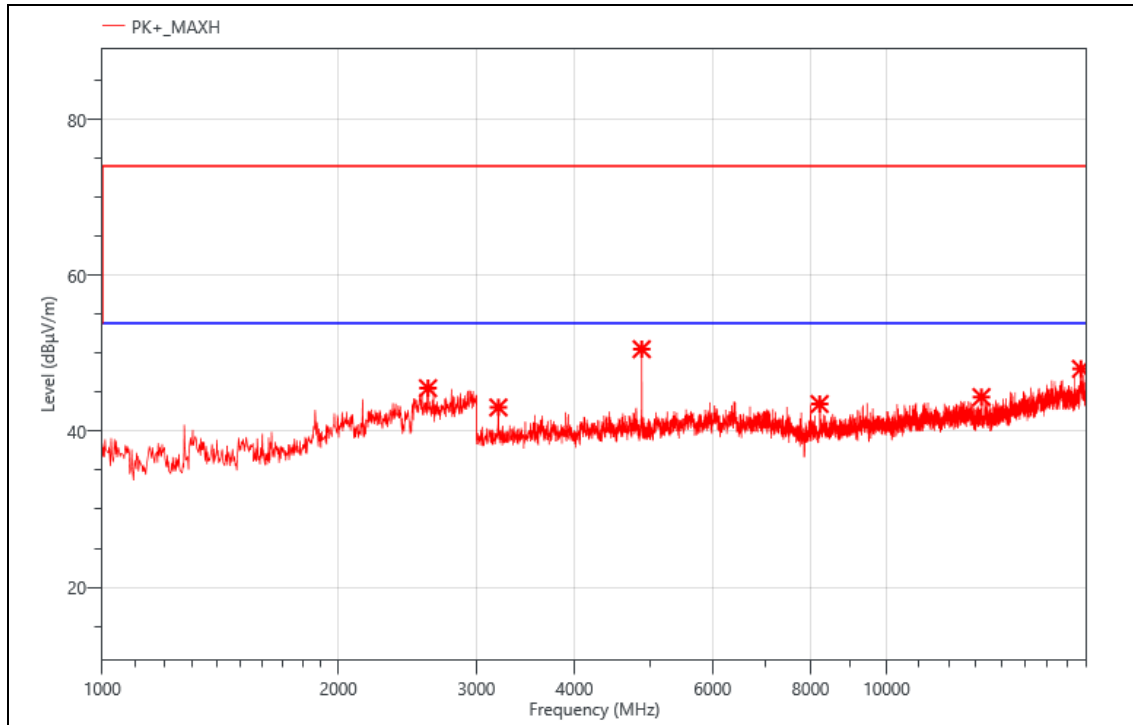
Mode:	11B-2437
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/18
T/A/P	22.3°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2752.000	53.10	-8.07	45.03	74.00	28.97	PK+	H
2	3666.000	55.24	-13.42	41.82	74.00	32.18	PK+	H
3	4873.500	60.24	-11.15	49.09	74.00	24.91	PK+	H
4	11199.000	49.13	-4.46	44.67	74.00	29.33	PK+	H
5	16644.000	47.93	-0.95	46.98	74.00	27.02	PK+	H
6	17769.000	47.93	-0.48	47.45	74.00	26.55	PK+	H

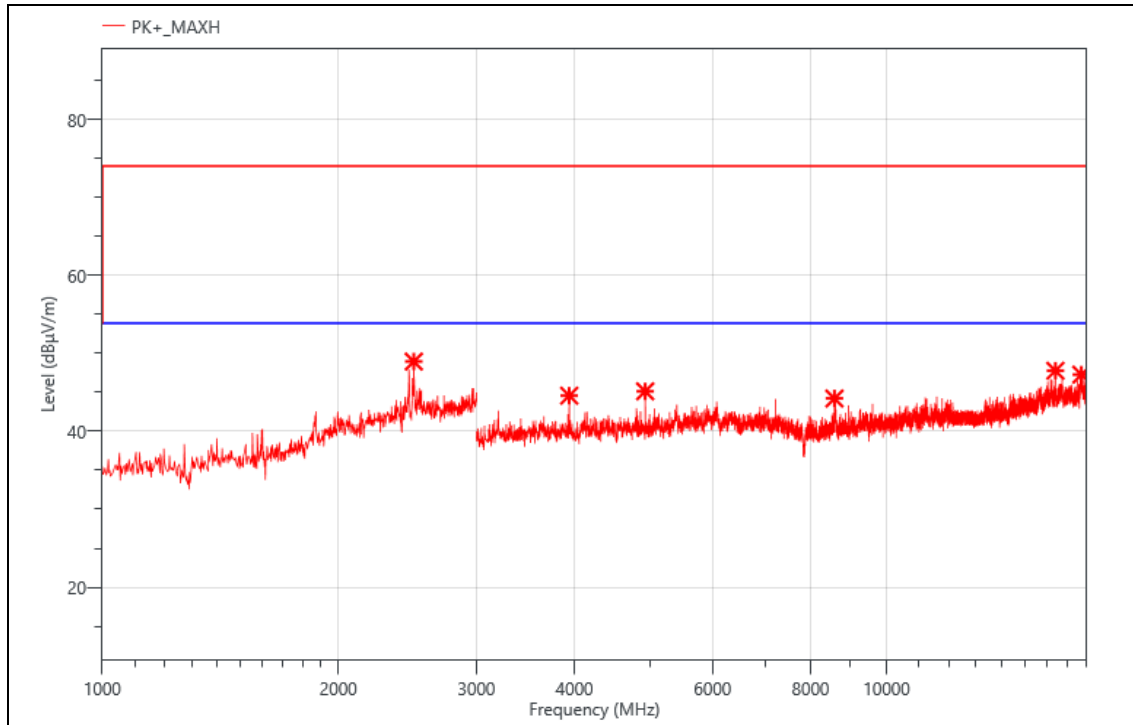
Mode:	11B-2437
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/18
T/A/P	22.3°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2602.000	53.70	-8.17	45.53	74.00	28.47	PK+	V
2	3199.500	57.86	-14.8	43.06	74.00	30.94	PK+	V
3	4873.500	61.68	-11.15	50.53	74.00	23.47	PK+	V
4	8215.500	51.16	-7.66	43.50	74.00	30.50	PK+	V
5	13213.500	48.88	-4.49	44.39	74.00	29.61	PK+	V
6	17698.500	47.82	0.19	48.01	74.00	25.99	PK+	V

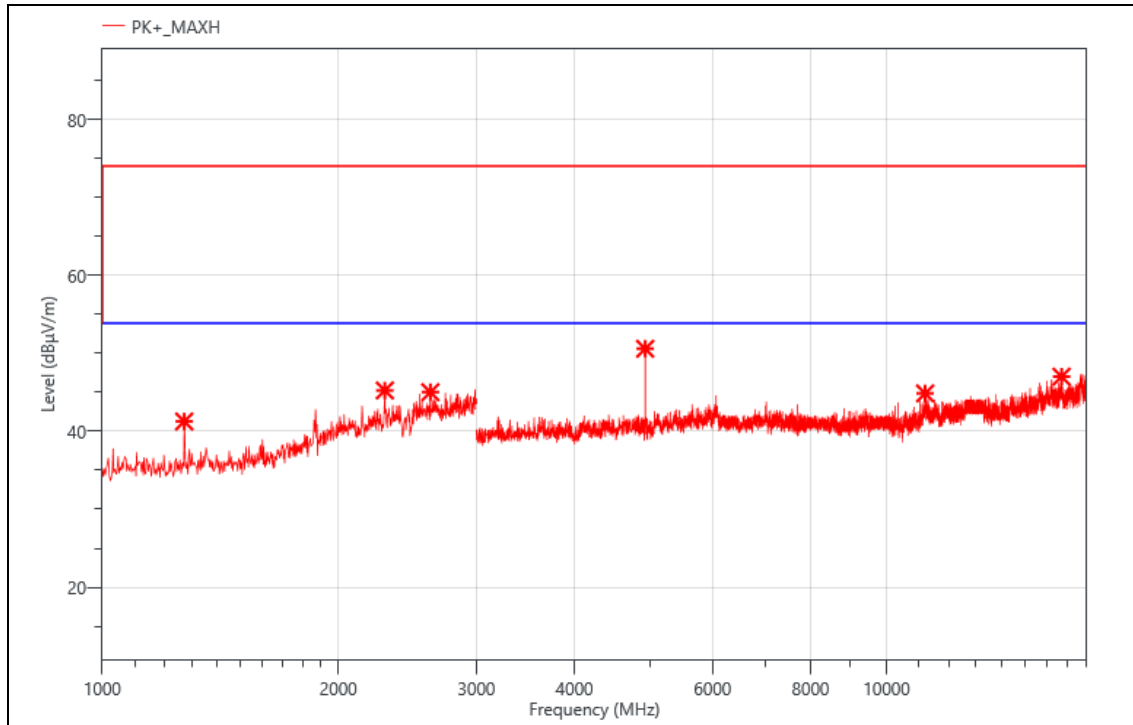
Mode:	11B-2462
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/18
T/A/P	22.3°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2496.000	57.36	-8.41	48.95	74.00	25.05	PK+	V
2	3939.000	57.82	-13.25	44.57	74.00	29.43	PK+	V
3	4923.000	56.24	-11.11	45.13	74.00	28.87	PK+	V
4	8581.500	52.13	-7.92	44.21	74.00	29.79	PK+	V
5	16416.000	49.06	-1.29	47.77	74.00	26.23	PK+	V
6	17718.000	47.48	-0.21	47.27	74.00	26.73	PK+	V

Mode:	11B-2462
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/18
T/A/P	22.3°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	1272.000	55.54	-14.28	41.26	74.00	32.74	PK+	H
2	2292.000	54.27	-9.03	45.24	74.00	28.76	PK+	H
3	2620.000	53.45	-8.43	45.02	74.00	28.98	PK+	H
4	4923.000	61.70	-11.11	50.59	74.00	23.41	PK+	H
5	11199.000	49.33	-4.46	44.87	74.00	29.13	PK+	H
6	16716.000	47.92	-0.91	47.01	74.00	26.99	PK+	H

Note:

1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

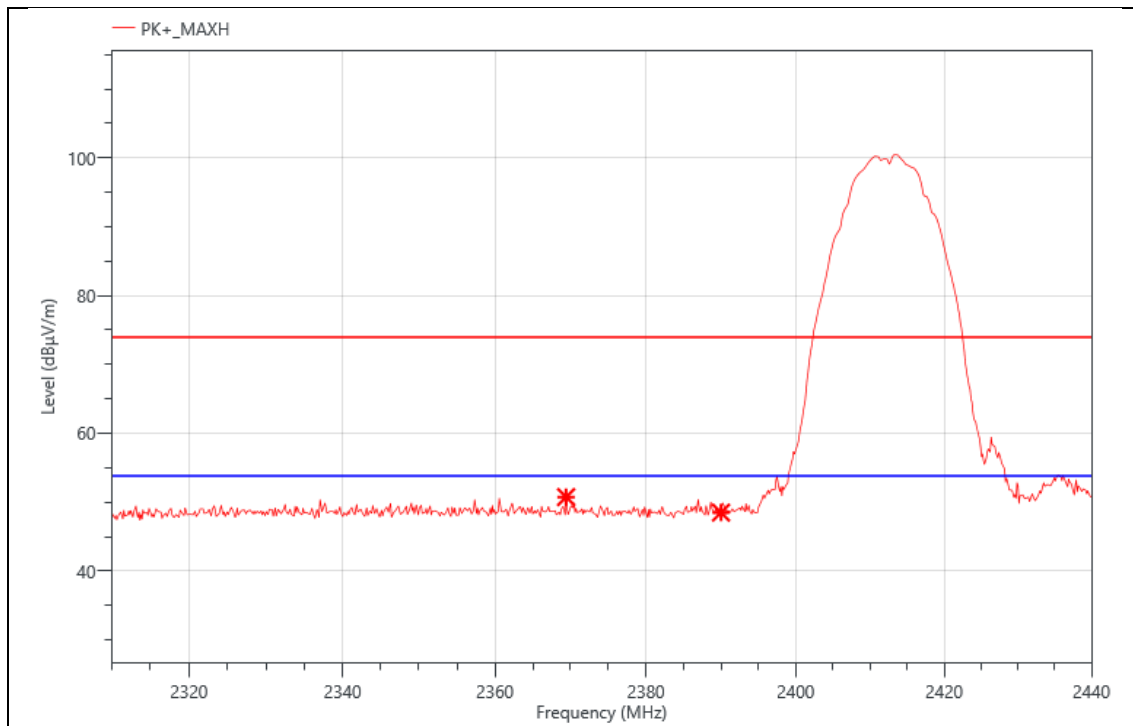
For the frequency above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.

Band Edge

All modes have been tested and the worst result as bellow:

Model: A5 Pro

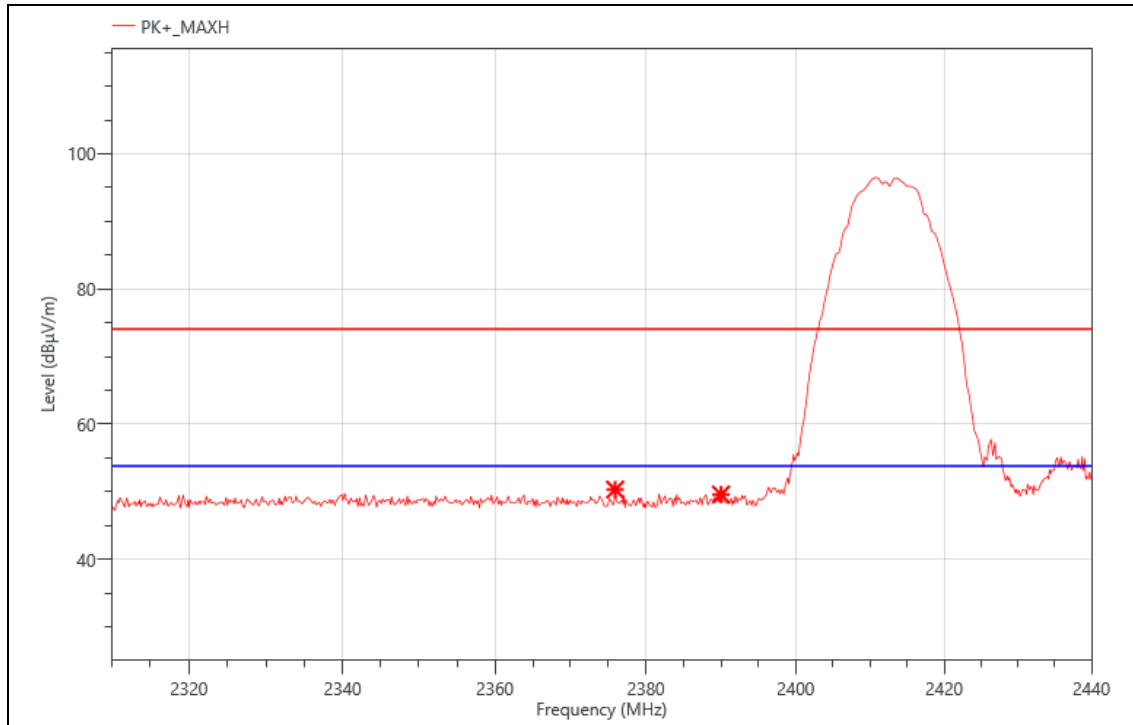
Mode:	11B-2412
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/09
T/A/P	22.3°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2369.410	28.10	22.63	50.73	74.00	23.27	PK+	V
2	2390.000	25.76	22.72	48.48	74.00	25.52	PK+	V

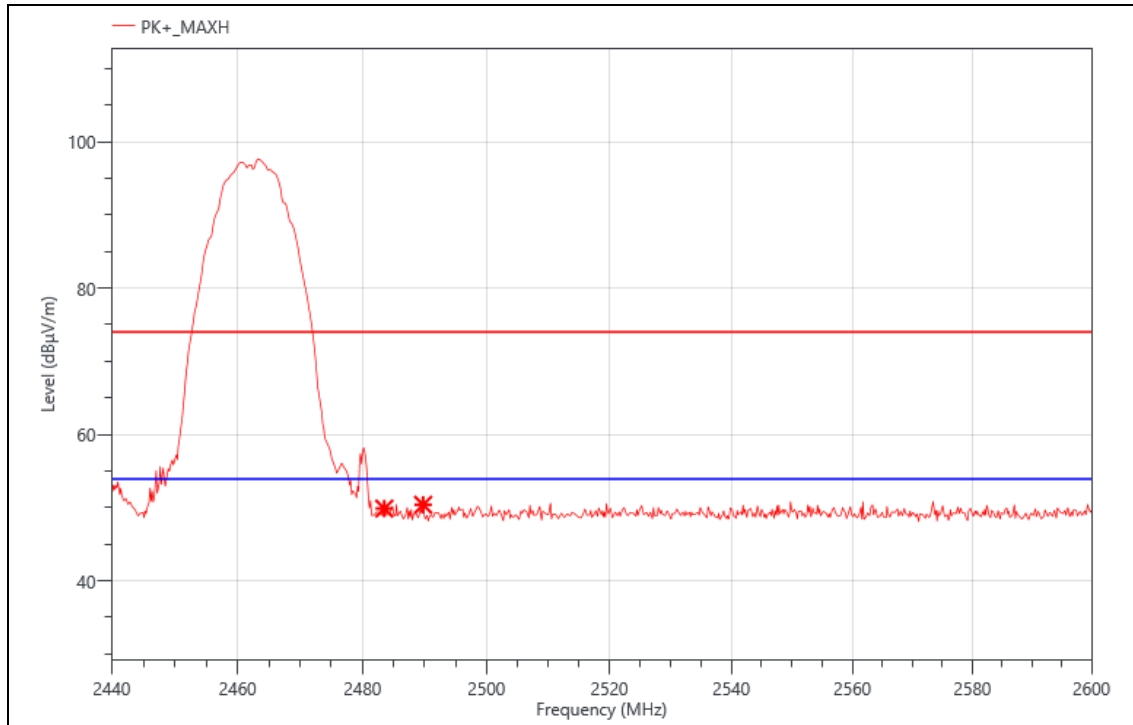
Mode:	11B-2412
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/09
T/A/P	22.3°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2375.910	27.75	22.57	50.32	74.00	23.68	PK+	H
2	2390.000	26.88	22.72	49.60	74.00	24.40	PK+	H

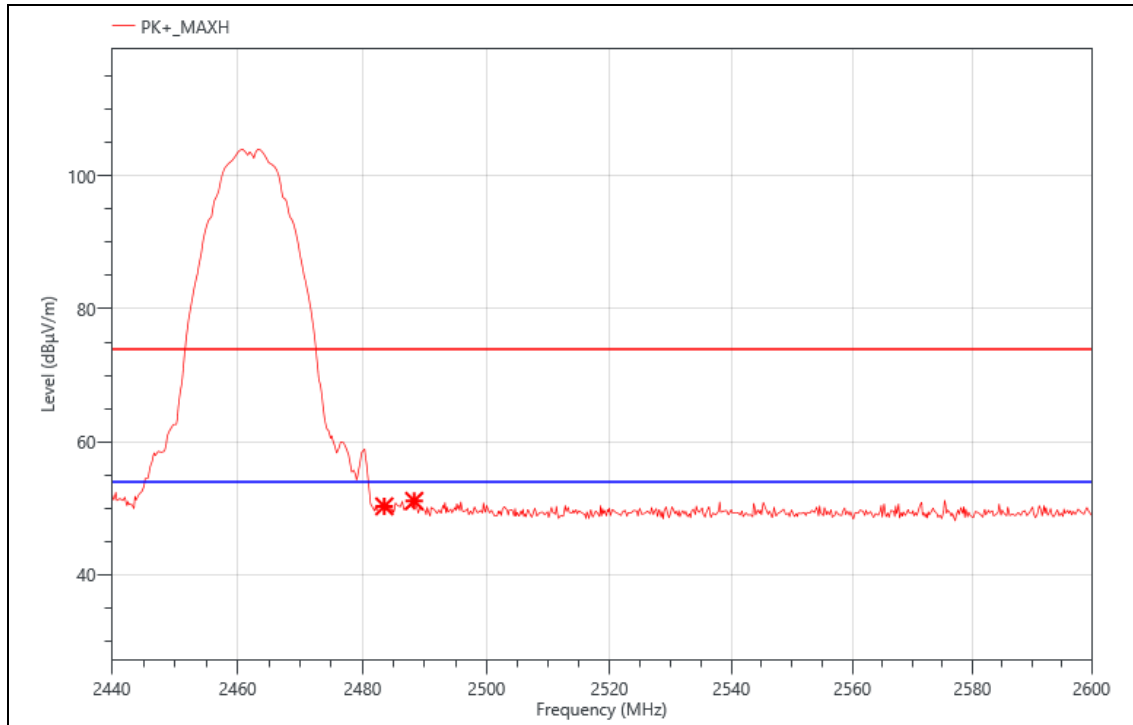
Mode:	11B-2462
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/09
T/A/P	22.3°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	26.72	23.15	49.87	74.00	24.13	PK+	H
2	2489.760	27.26	23.13	50.39	74.00	23.61	PK+	H

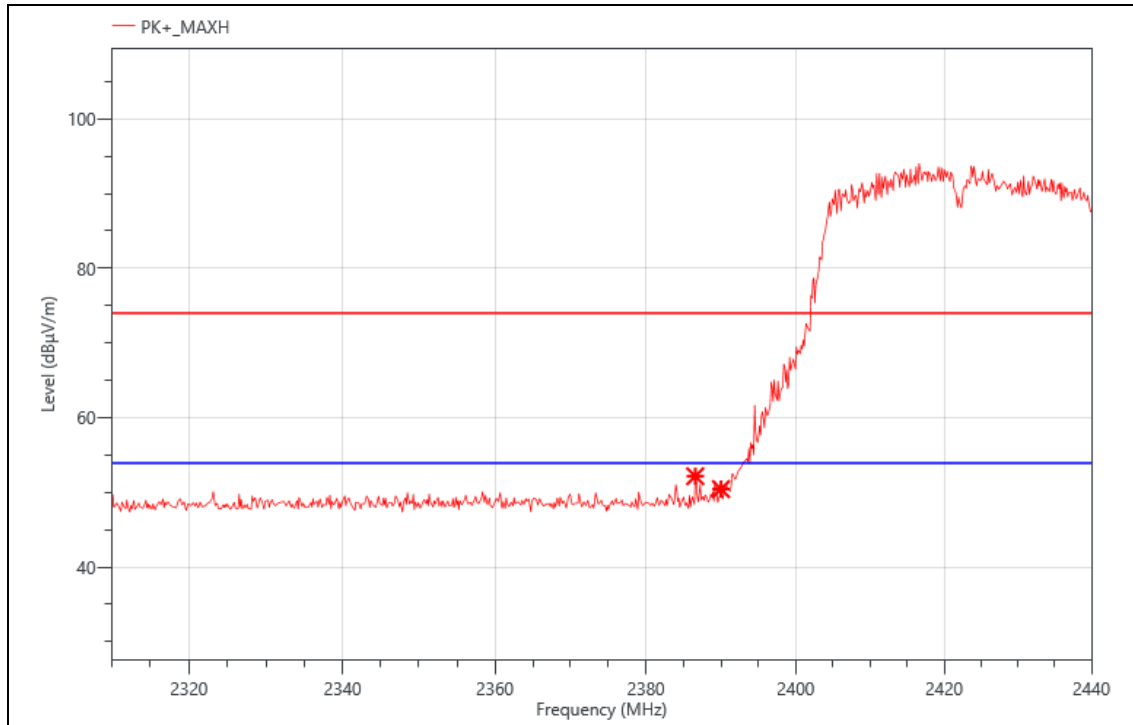
Mode:	11B-2462
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/09
T/A/P	22.3°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	27.15	23.15	50.30	74.00	23.70	PK+	V
2	2488.320	27.98	23.14	51.12	74.00	22.88	PK+	V

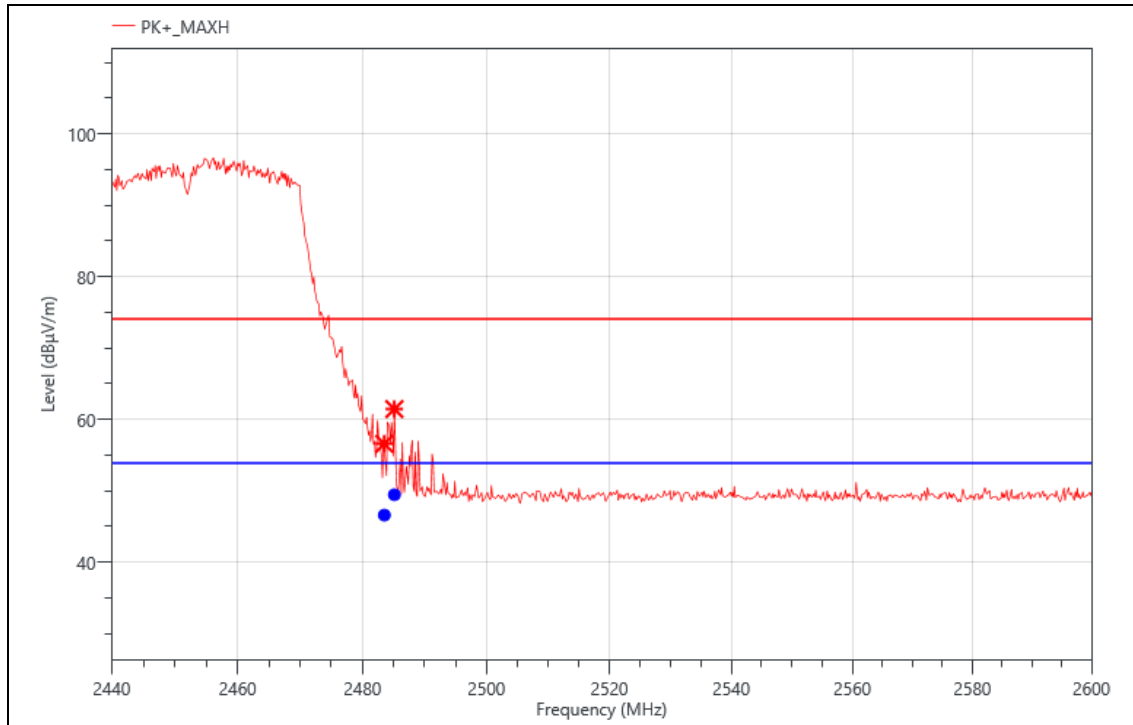
Mode:	N40-2422
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/10
T/A/P	22.3°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2386.570	29.51	22.65	52.16	74.00	21.84	PK+	H
2	2390.000	27.72	22.72	50.44	74.00	23.56	PK+	H

Mode:	N40-2452
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/10
T/A/P	22.3°C/53%/101Kpa



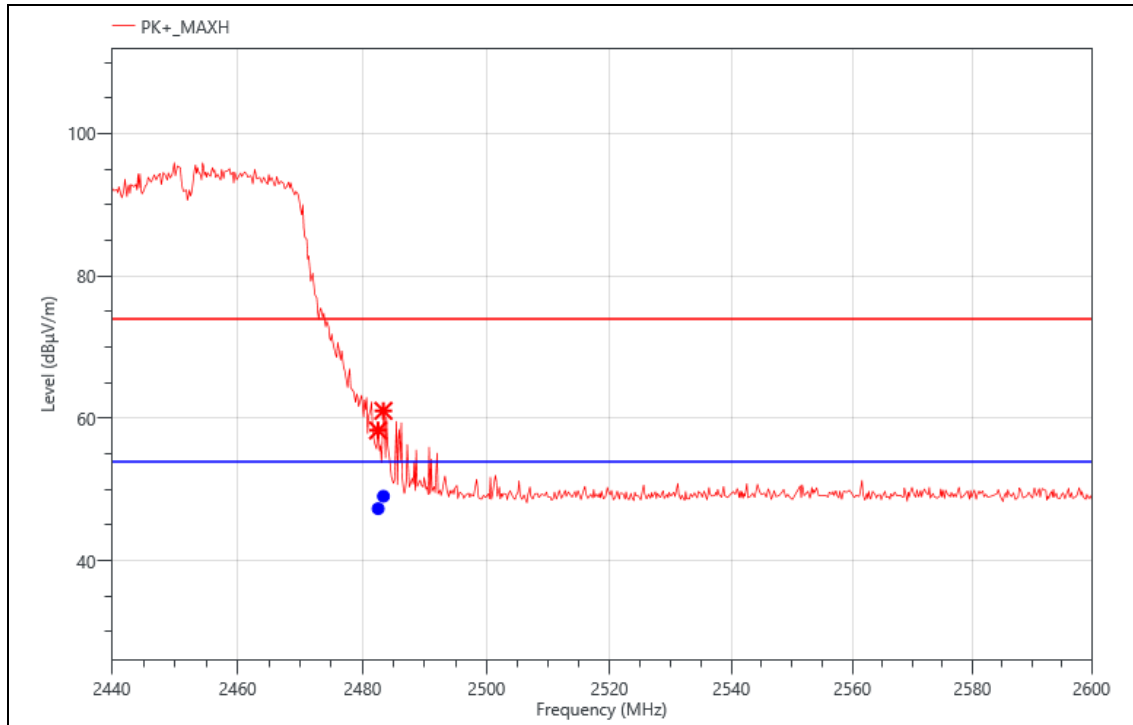
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	33.46	23.15	56.61	74.00	17.39	PK+	V
2	2485.120	38.33	23.14	61.47	74.00	12.53	PK+	V

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2483.500	23.46	23.15	46.61	53.90	7.29	AVG	V	PASS
2	2485.120	26.33	23.14	49.47	53.90	4.43	AVG	V	PASS

Mode:	N40-2452
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/06/10
T/A/P	22.3°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2482.500	35.16	23.15	58.31	74.00	15.69	PK+	H
2	2483.360	37.91	23.15	61.06	74.00	12.94	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2482.500	24.16	23.15	47.31	53.90	6.59	AVG	H	PASS
2	2483.360	25.91	23.15	49.06	53.90	4.84	AVG	H	PASS

Note:

1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass.

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a).

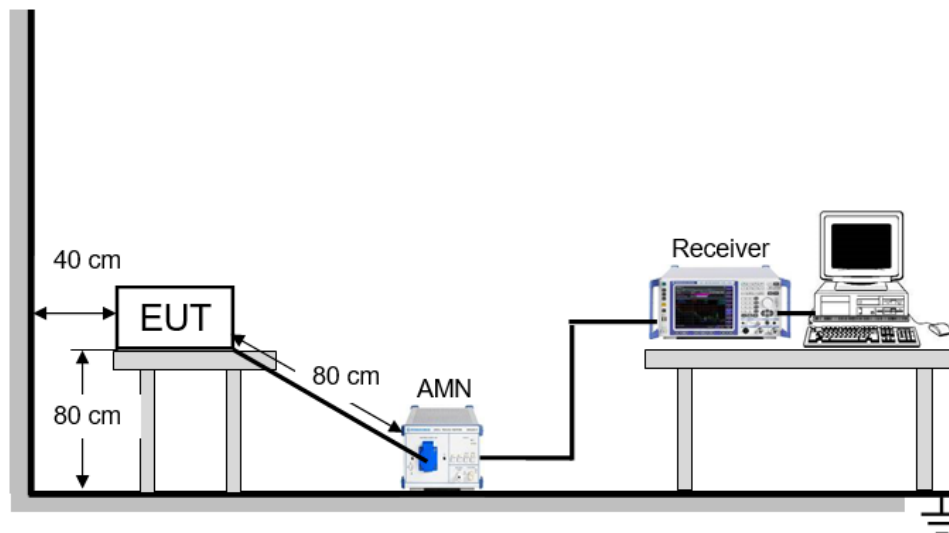
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

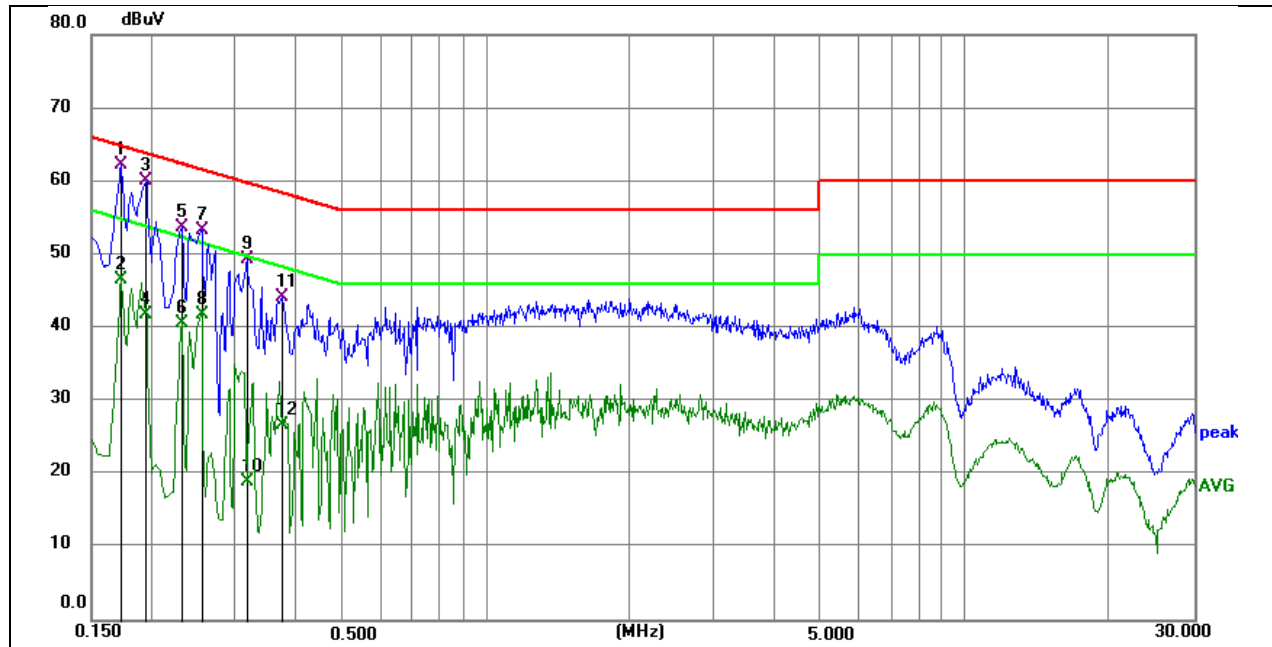
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

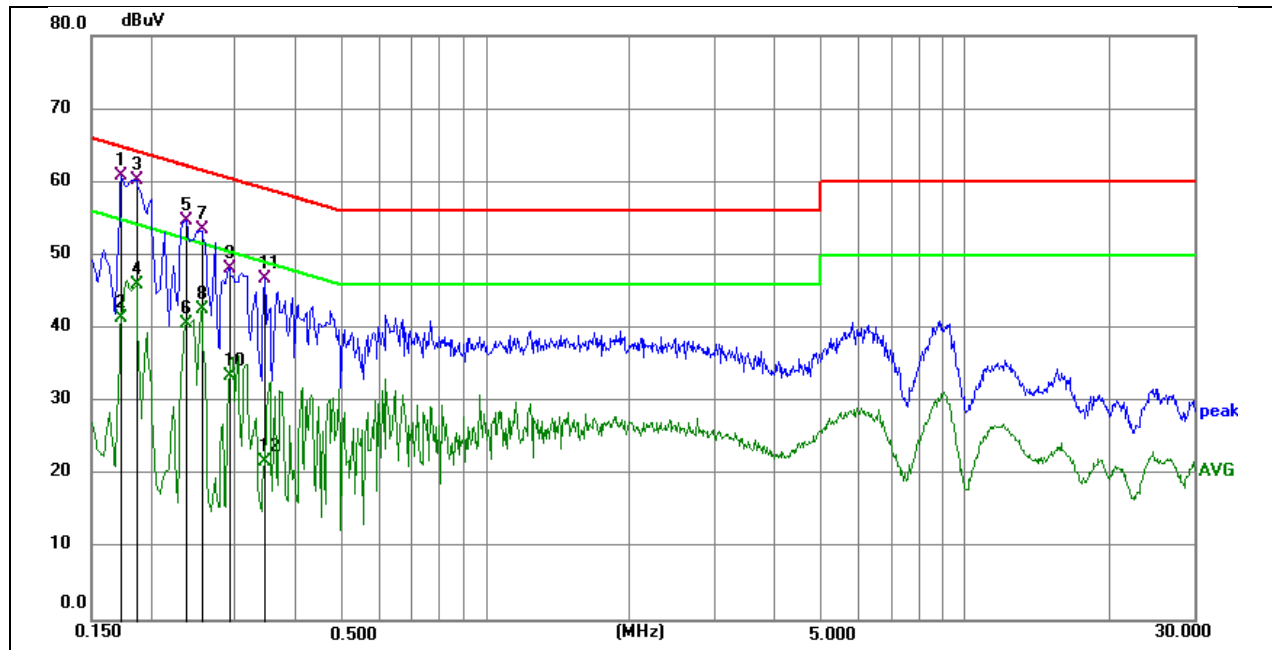
Temperature	23.4°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

TEST RESULTS

Phase: L1

Mode: 11B-2412

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1723	52.43	9.71	62.14	64.85	-2.71	QP
2	0.1723	36.90	9.71	46.61	54.85	-8.24	AVG
3	0.1949	50.42	9.71	60.13	63.83	-3.70	QP
4	0.1949	32.02	9.71	41.73	53.83	-12.10	AVG
5	0.2310	43.92	9.72	53.64	62.41	-8.77	QP
6	0.2310	30.92	9.72	40.64	52.41	-11.77	AVG
7	0.2535	43.64	9.73	53.37	61.64	-8.27	QP
8	0.2535	32.04	9.73	41.77	51.64	-9.87	AVG
9	0.3165	39.58	9.76	49.34	59.80	-10.46	QP
10	0.3165	9.14	9.76	18.90	49.80	-30.90	AVG
11	0.3750	34.41	9.78	44.19	58.39	-14.20	QP
12	0.3750	16.96	9.78	26.74	48.39	-21.65	AVG



Phase: N

Mode: 11B-2412

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1730	51.05	9.86	60.91	64.82	-3.91	QP
2	0.1730	31.52	9.86	41.38	54.82	-13.44	AVG
3	0.1862	50.39	9.84	60.23	64.20	-3.97	QP
4	0.1862	36.08	9.84	45.92	54.20	-8.28	AVG
5	0.2363	44.83	9.80	54.63	62.23	-7.60	QP
6	0.2363	30.83	9.80	40.63	52.23	-11.60	AVG
7	0.2545	43.61	9.79	53.40	61.61	-8.21	QP
8	0.2545	32.74	9.79	42.53	51.61	-9.08	AVG
9	0.2908	38.44	9.78	48.22	60.50	-12.28	QP
10	0.2908	23.66	9.78	33.44	50.50	-17.06	AVG
11	0.3446	36.91	9.77	46.68	59.09	-12.41	QP
12	0.3446	11.93	9.77	21.70	49.09	-27.39	AVG

Note: 1. Result = Reading + Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

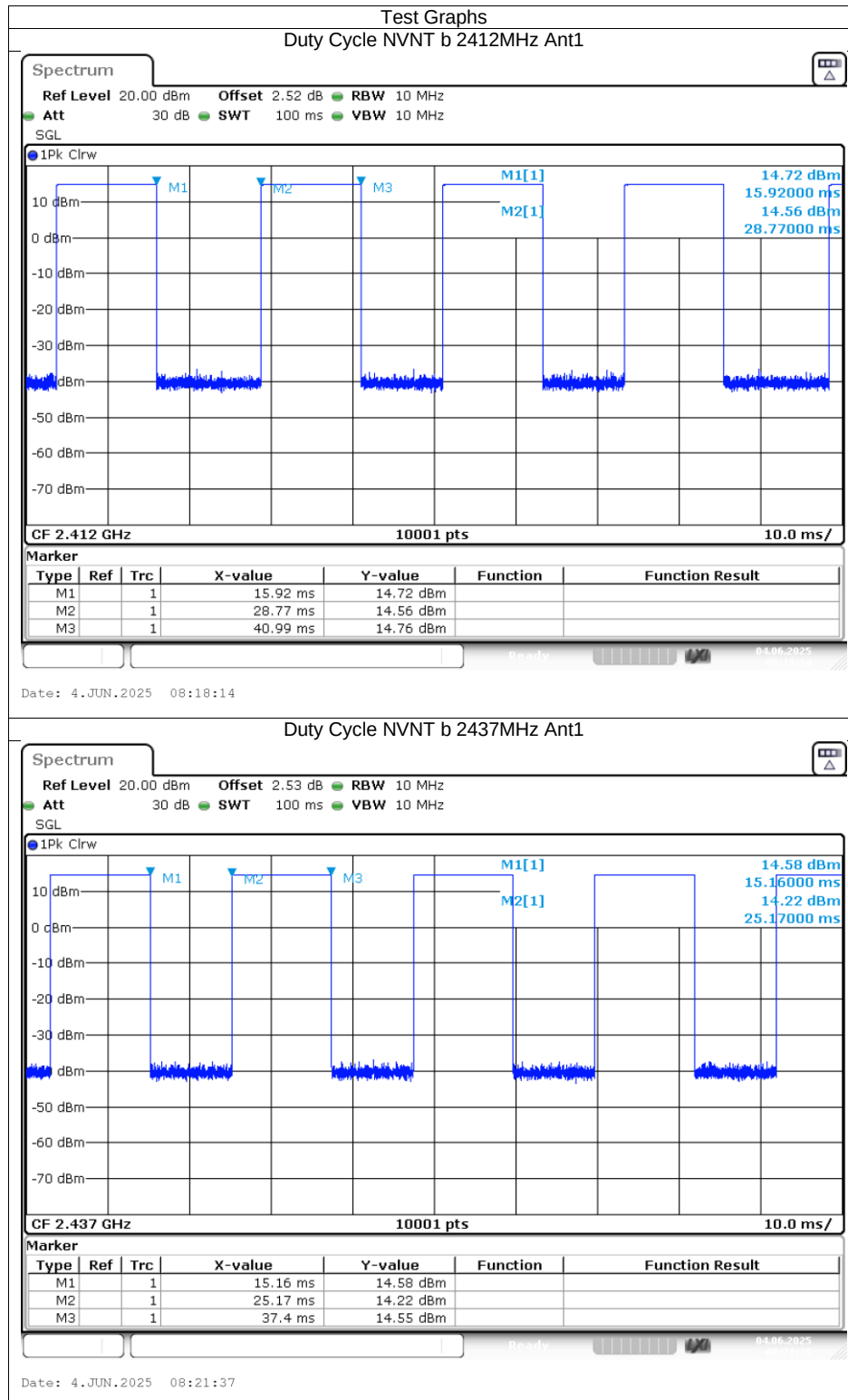
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

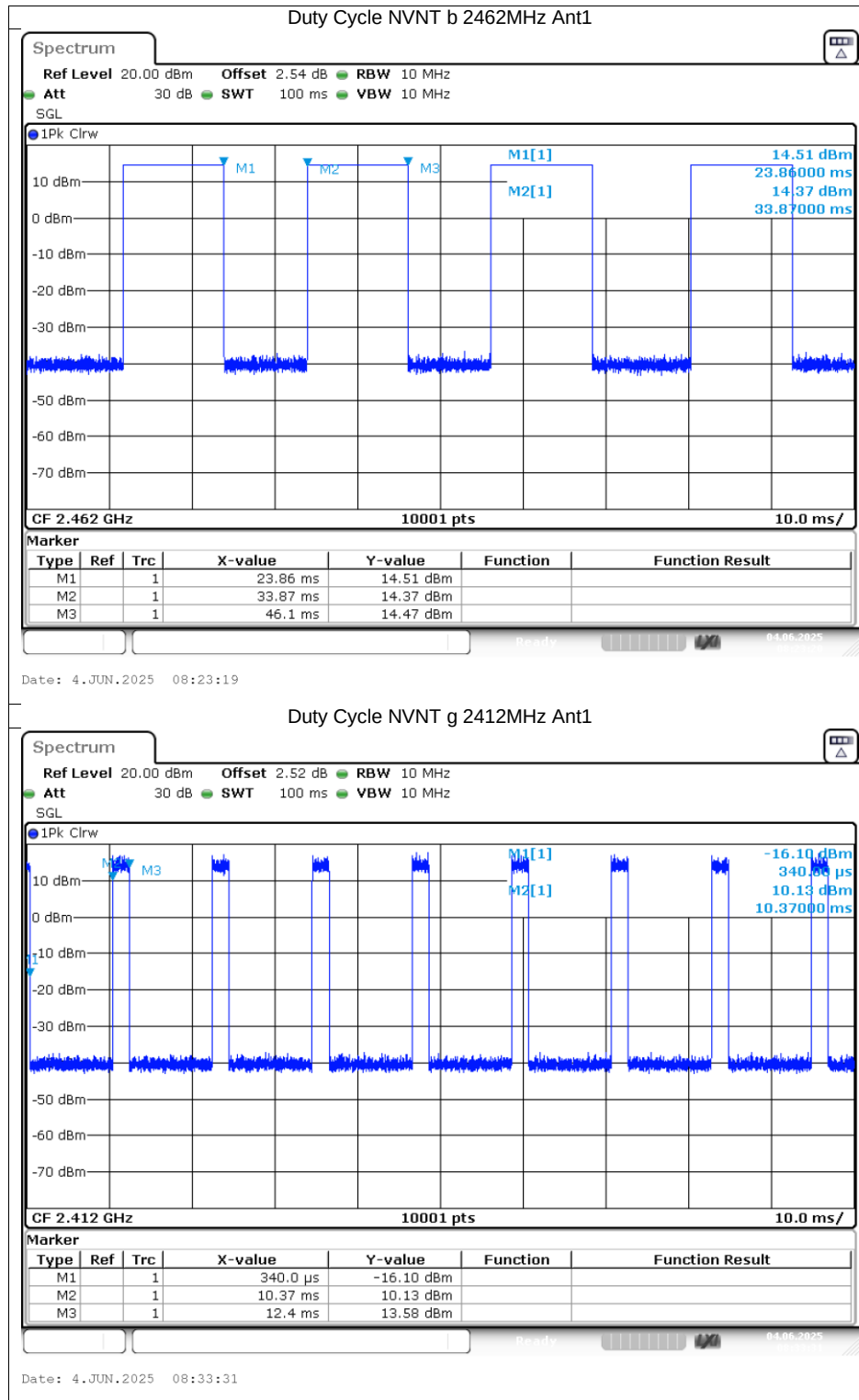
Note: All the modes have been tested, only the worst data was recorded in the report.

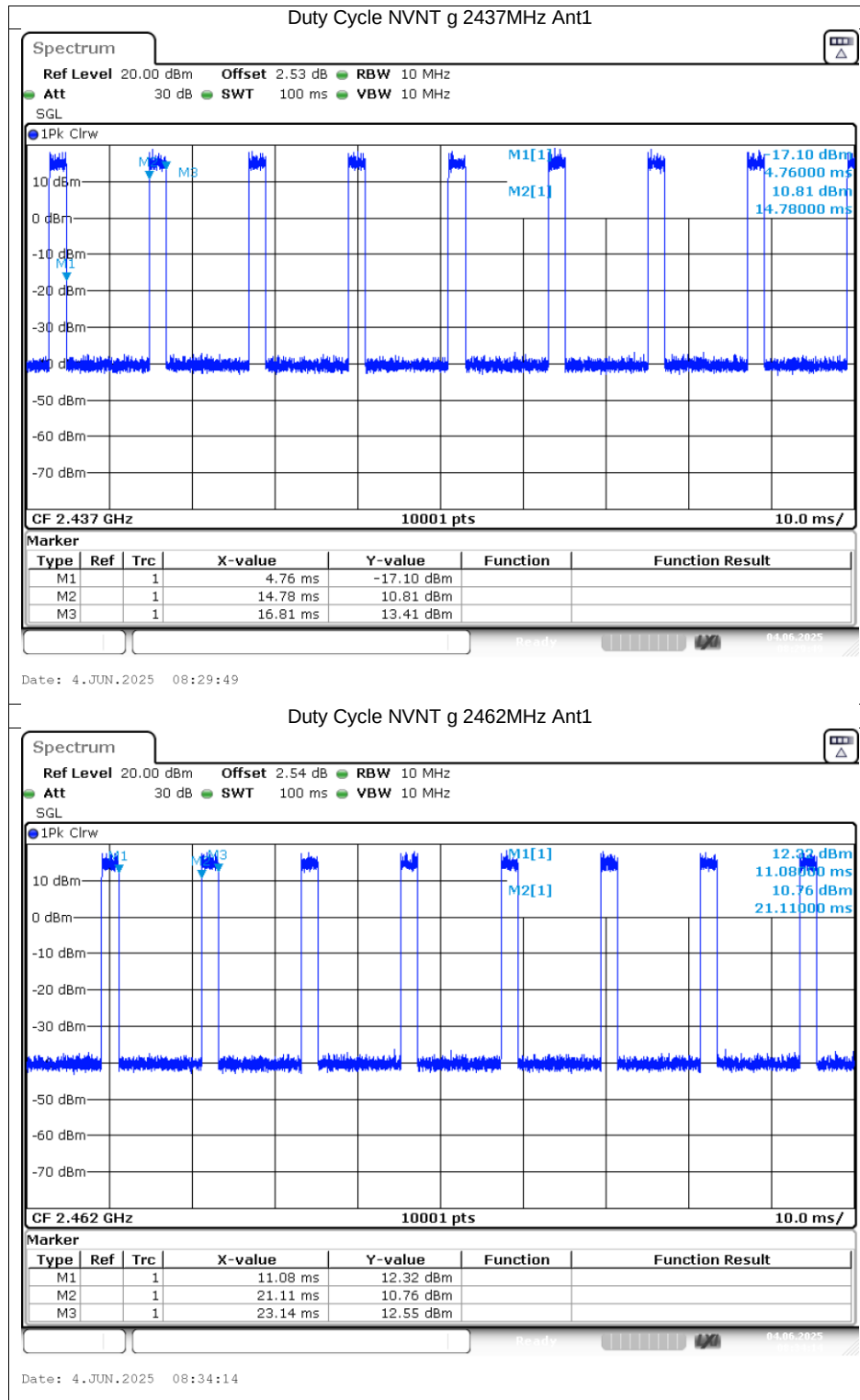
11. TEST DATA - Appendix C

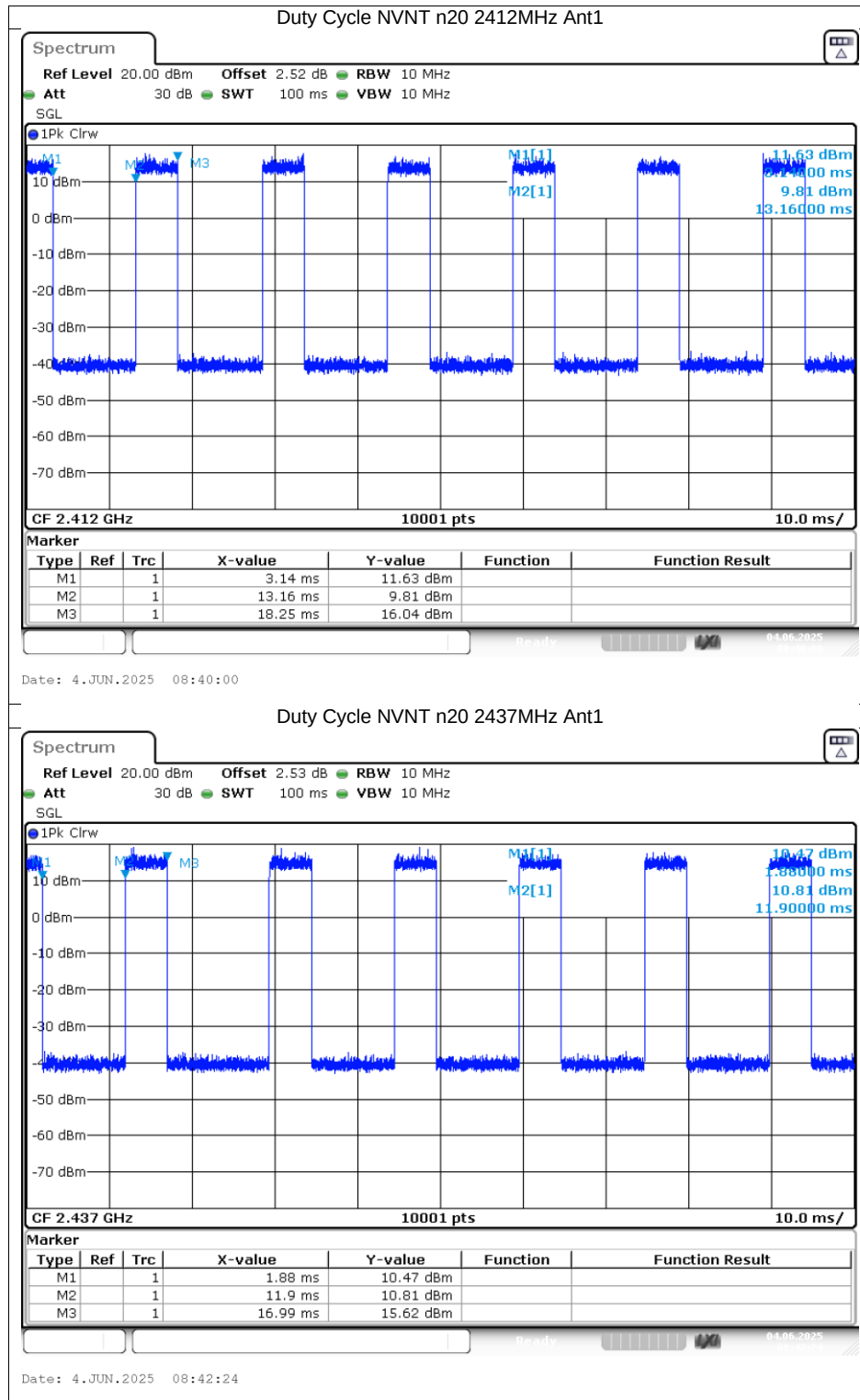
Duty Cycle

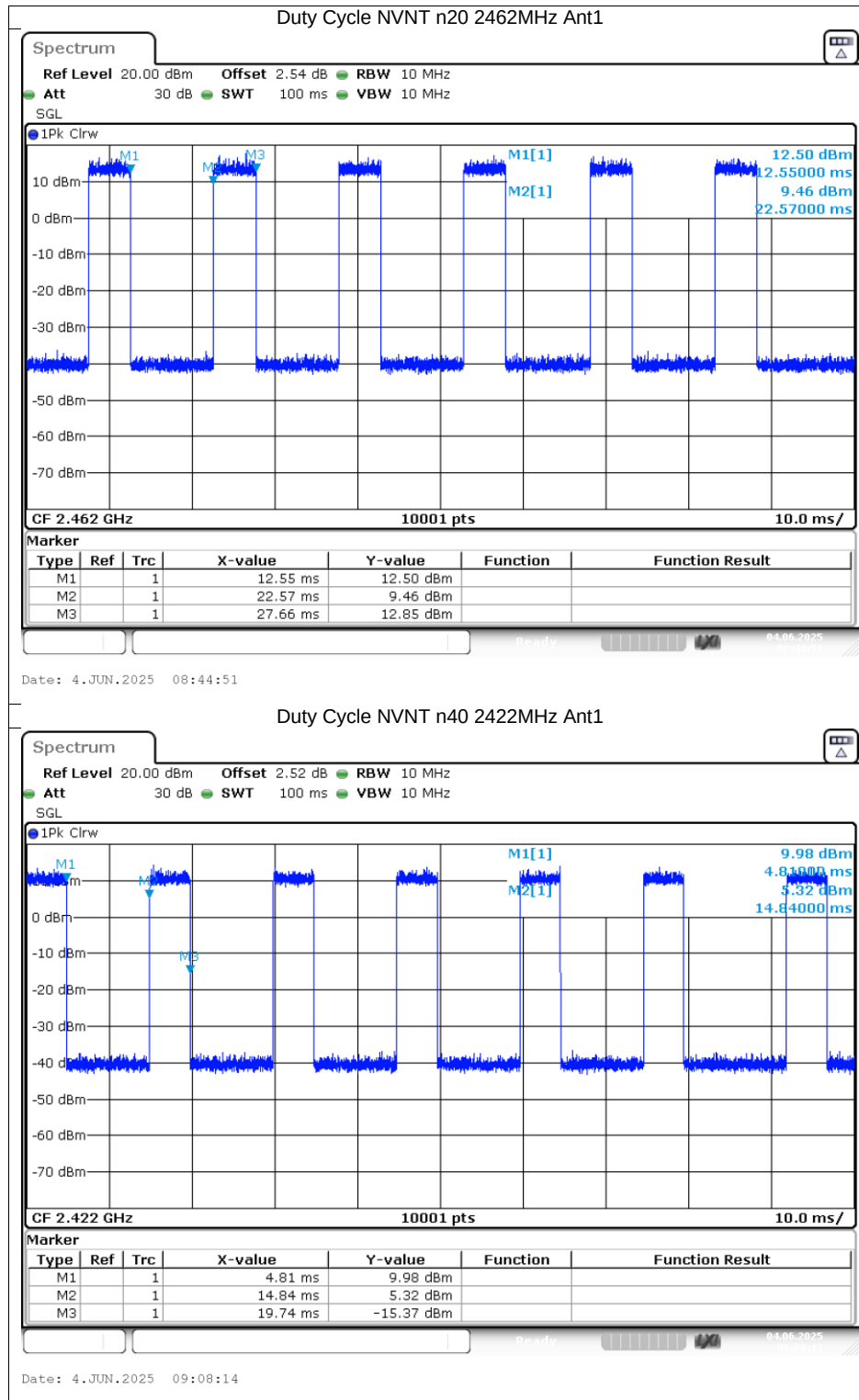
Condition	Mode	Frequency (MHz)	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Final settingFor VBW (kHz)
NVNT	b	2412	Ant1	12.22	25.07	48.74	3.12	0.08	1
NVNT	b	2437	Ant1	12.23	22.24	54.99	2.6	0.08	1
NVNT	b	2462	Ant1	12.23	22.24	54.99	2.6	0.08	1
NVNT	g	2412	Ant1	2.03	12.06	16.83	7.74	0.49	1
NVNT	g	2437	Ant1	2.03	12.05	16.85	7.73	0.49	1
NVNT	g	2462	Ant1	2.03	12.06	16.83	7.74	0.49	1
NVNT	n20	2412	Ant1	5.09	15.11	33.69	4.72	0.2	1
NVNT	n20	2437	Ant1	5.09	15.11	33.69	4.72	0.2	1
NVNT	n20	2462	Ant1	5.09	15.11	33.69	4.72	0.2	1
NVNT	n40	2422	Ant1	4.9	14.93	32.82	4.84	0.2	1
NVNT	n40	2437	Ant1	4.89	14.92	32.77	4.85	0.2	1
NVNT	n40	2452	Ant1	4.89	14.92	32.77	4.85	0.2	1
NVNT	ax20	2412	Ant1	3.88	13.9	27.91	5.54	0.26	1
NVNT	ax20	2437	Ant1	3.87	15.46	25.03	6.02	0.26	1
NVNT	ax20	2462	Ant1	3.87	13.89	27.86	5.55	0.26	1
NVNT	ax40	2422	Ant1	3.87	13.9	27.84	5.55	0.26	1
NVNT	ax40	2437	Ant1	3.87	13.9	27.84	5.55	0.26	1
NVNT	ax40	2452	Ant1	3.87	13.9	27.84	5.55	0.26	1

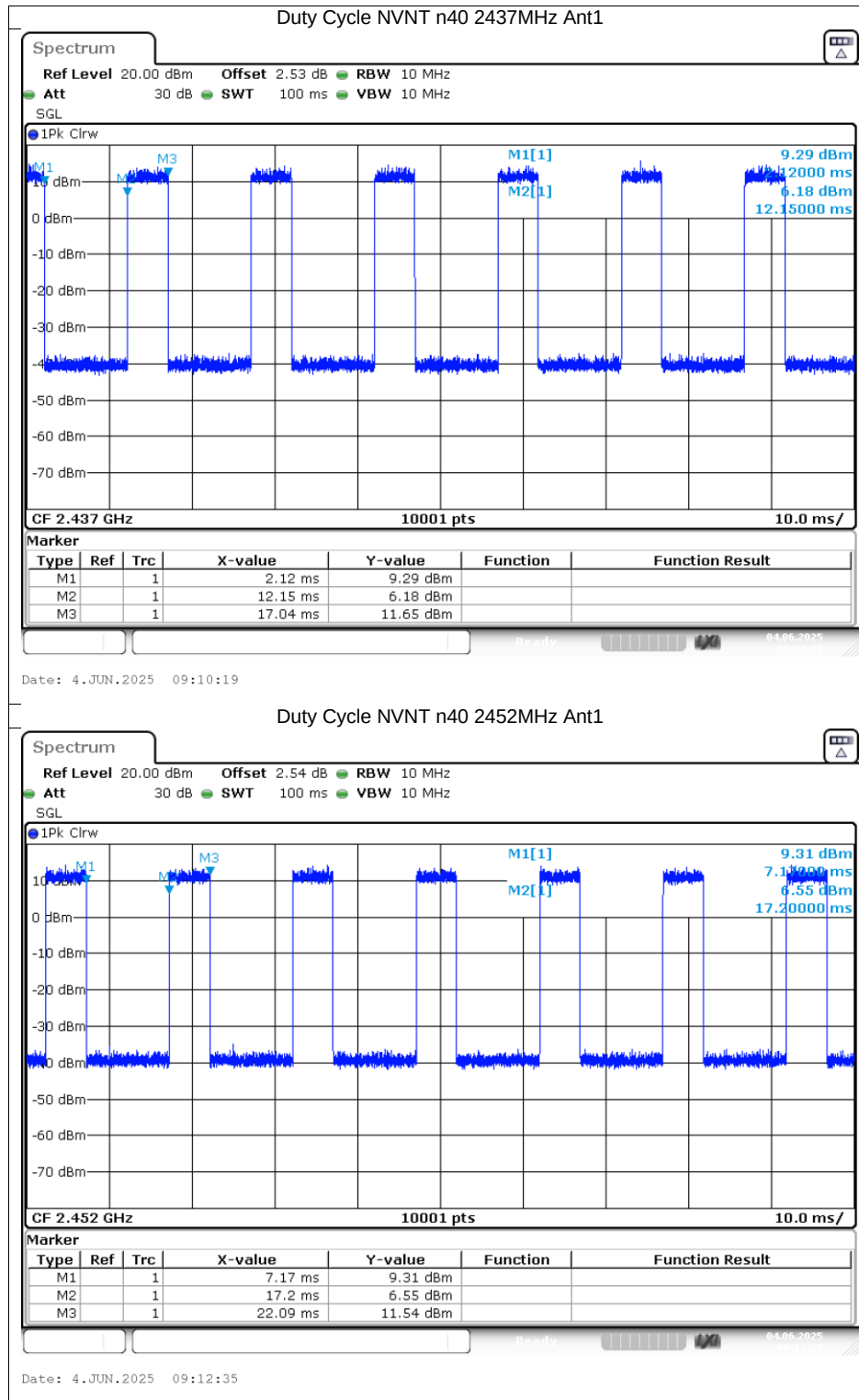


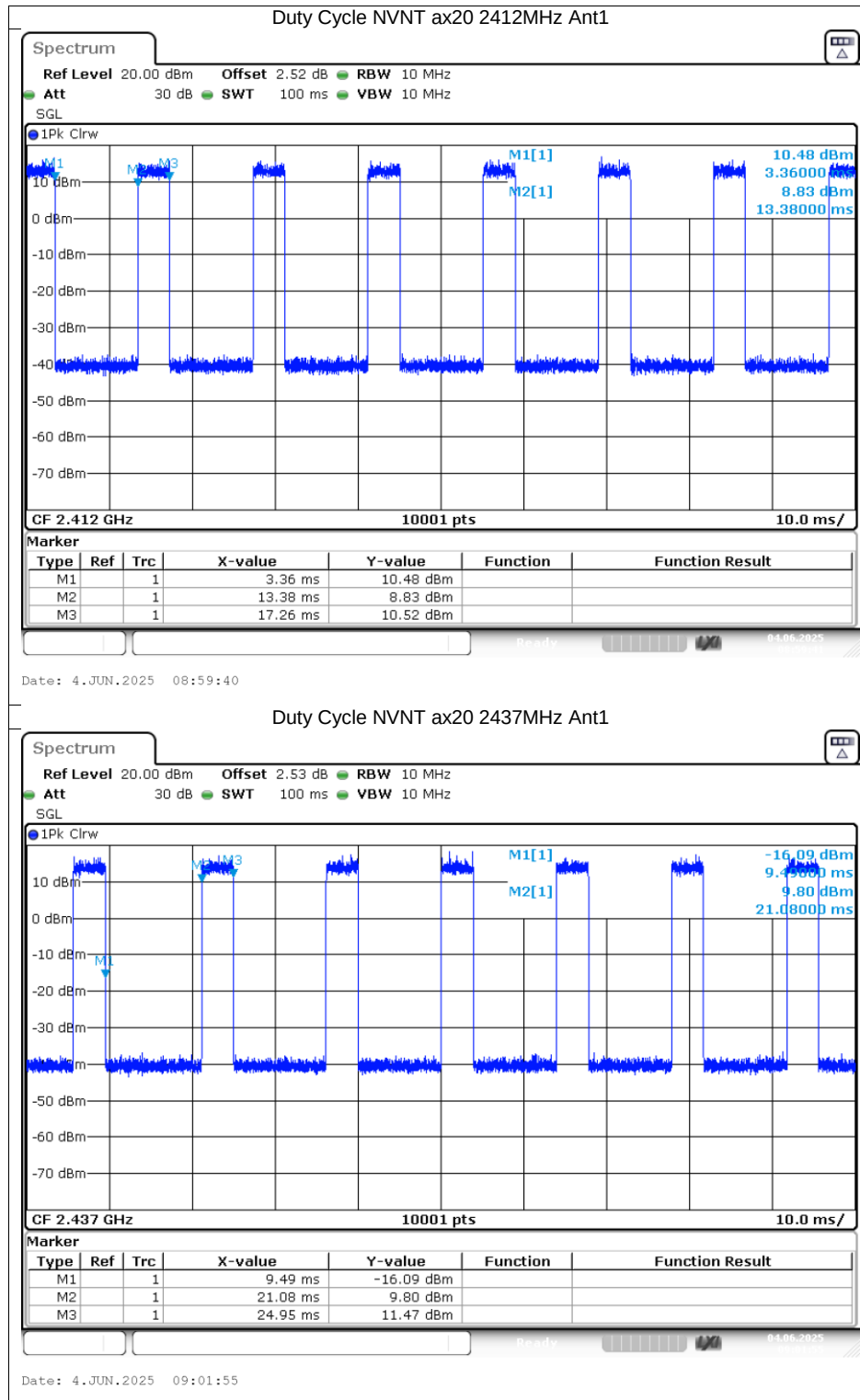


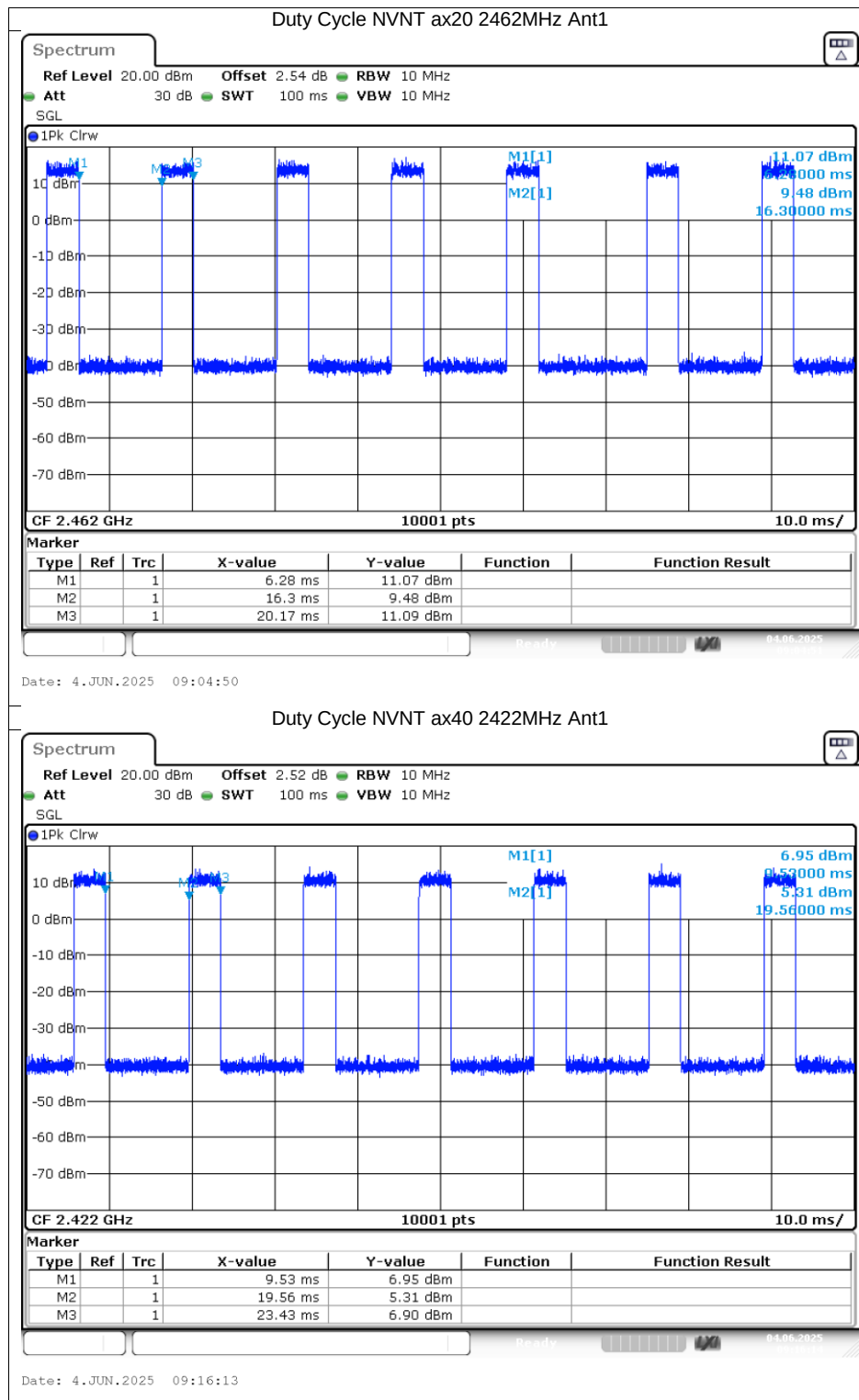












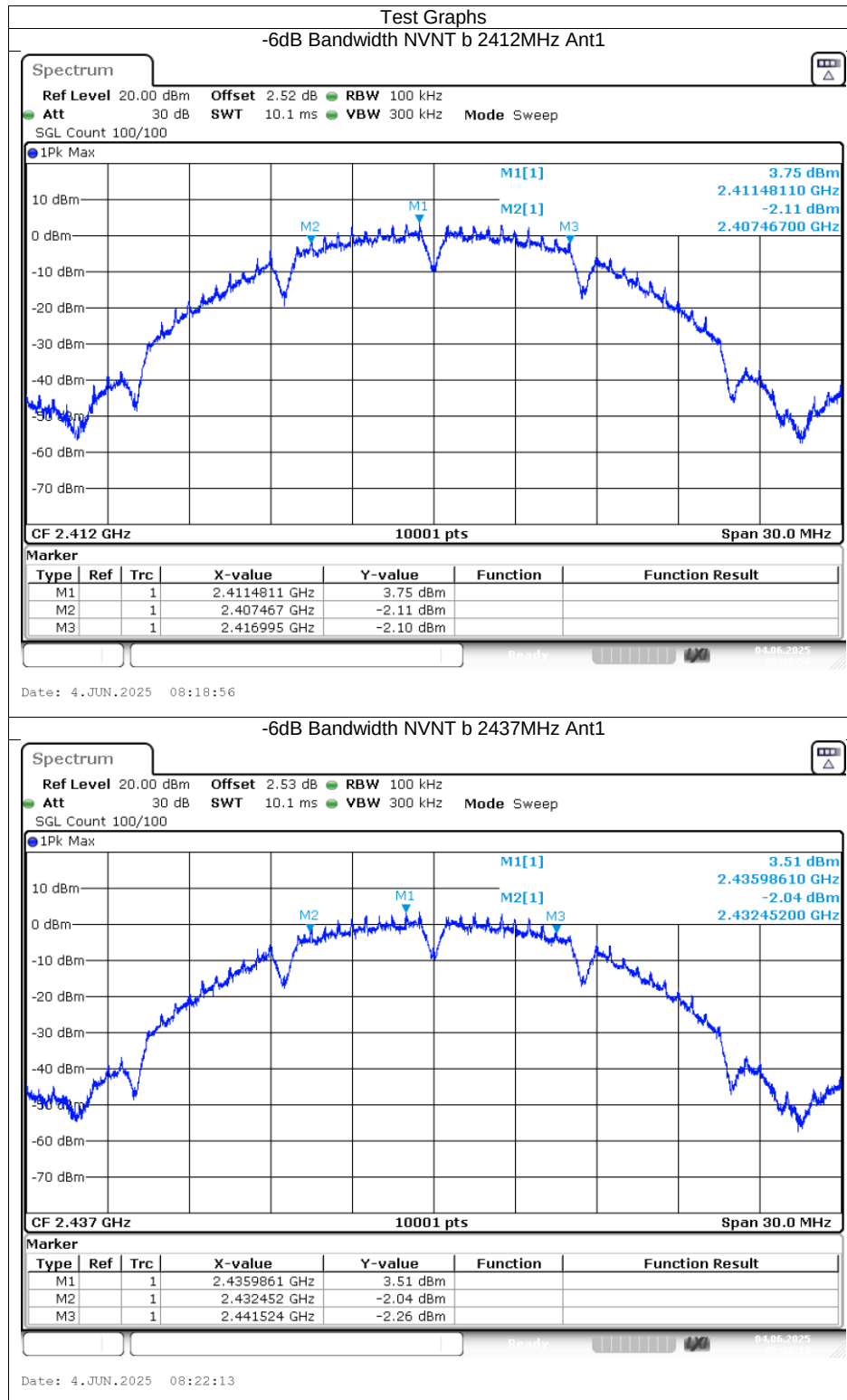


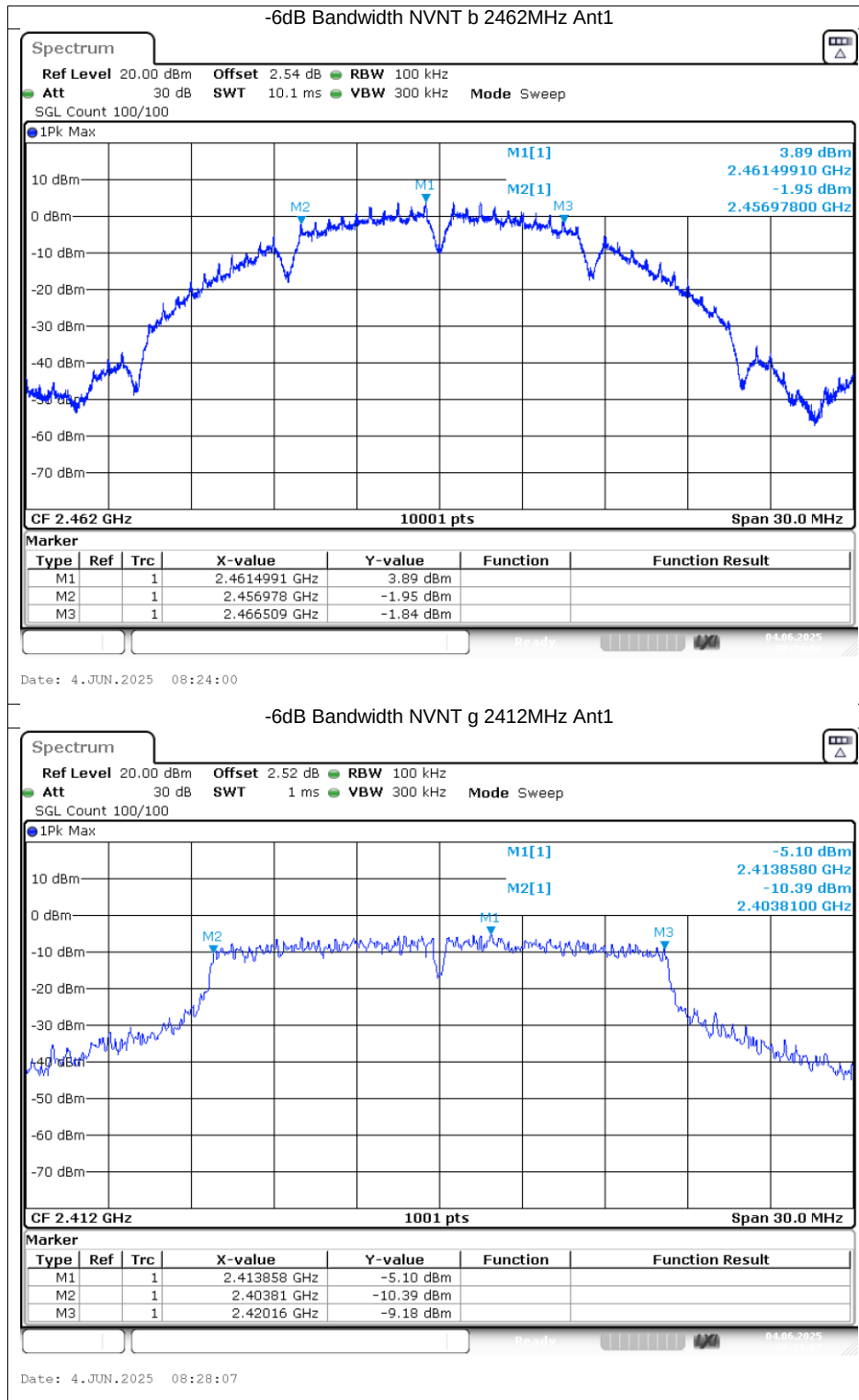
Maximum Conducted Output Power

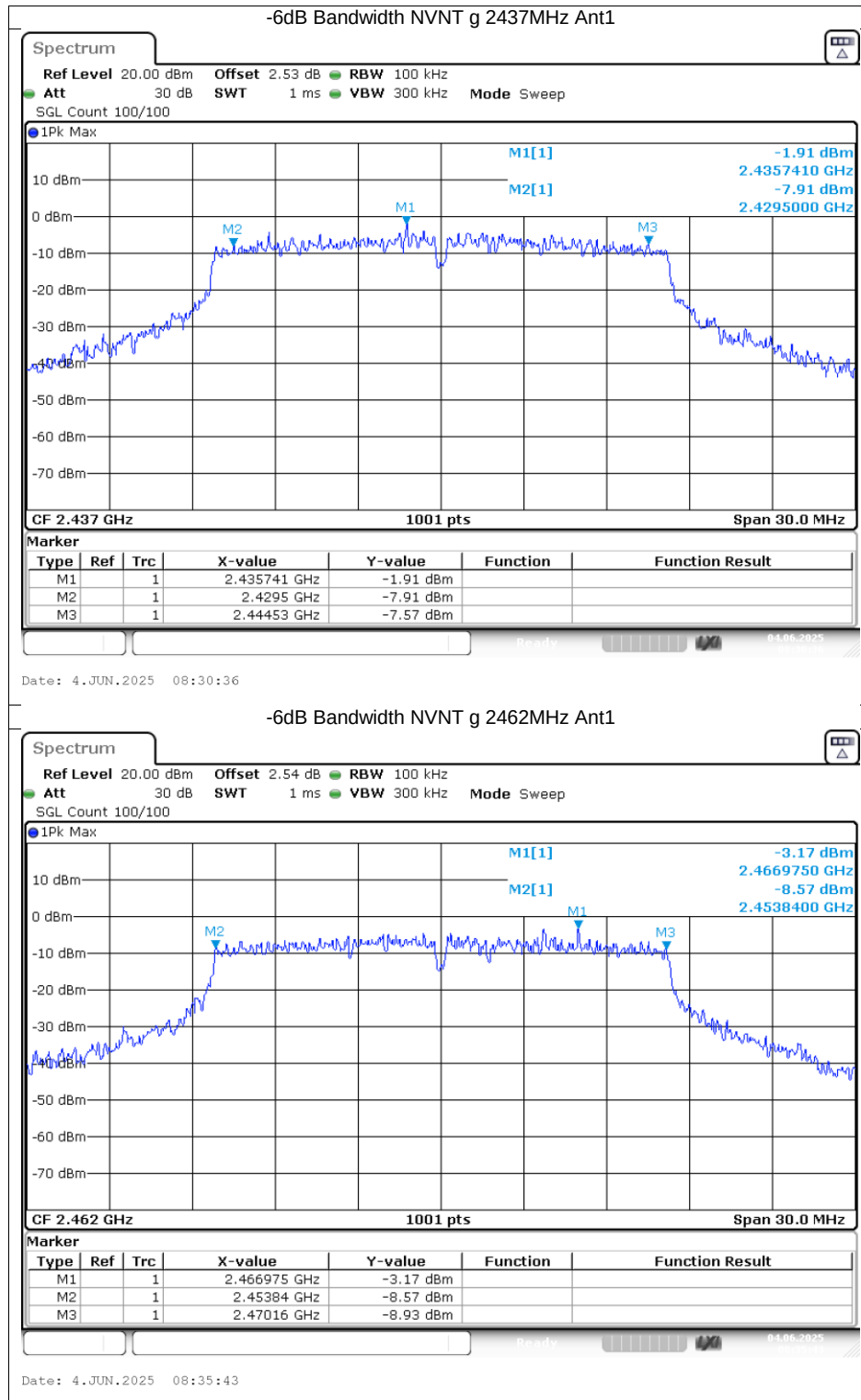
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.1	30	Pass
NVNT	b	2437	Ant1	15.9	30	Pass
NVNT	b	2462	Ant1	15.8	30	Pass
NVNT	g	2412	Ant1	15.06	30	Pass
NVNT	g	2437	Ant1	15.93	30	Pass
NVNT	g	2462	Ant1	15.59	30	Pass
NVNT	n20	2412	Ant1	15.8	30	Pass
NVNT	n20	2437	Ant1	15.61	30	Pass
NVNT	n20	2462	Ant1	15.08	30	Pass
NVNT	n40	2422	Ant1	14.74	30	Pass
NVNT	n40	2437	Ant1	15.34	30	Pass
NVNT	n40	2452	Ant1	15.32	30	Pass
NVNT	ax20	2412	Ant1	14.89	30	Pass
NVNT	ax20	2437	Ant1	15.99	30	Pass
NVNT	ax20	2462	Ant1	15.49	30	Pass
NVNT	ax40	2422	Ant1	14.93	30	Pass
NVNT	ax40	2437	Ant1	15.14	30	Pass
NVNT	ax40	2452	Ant1	14.8	30	Pass

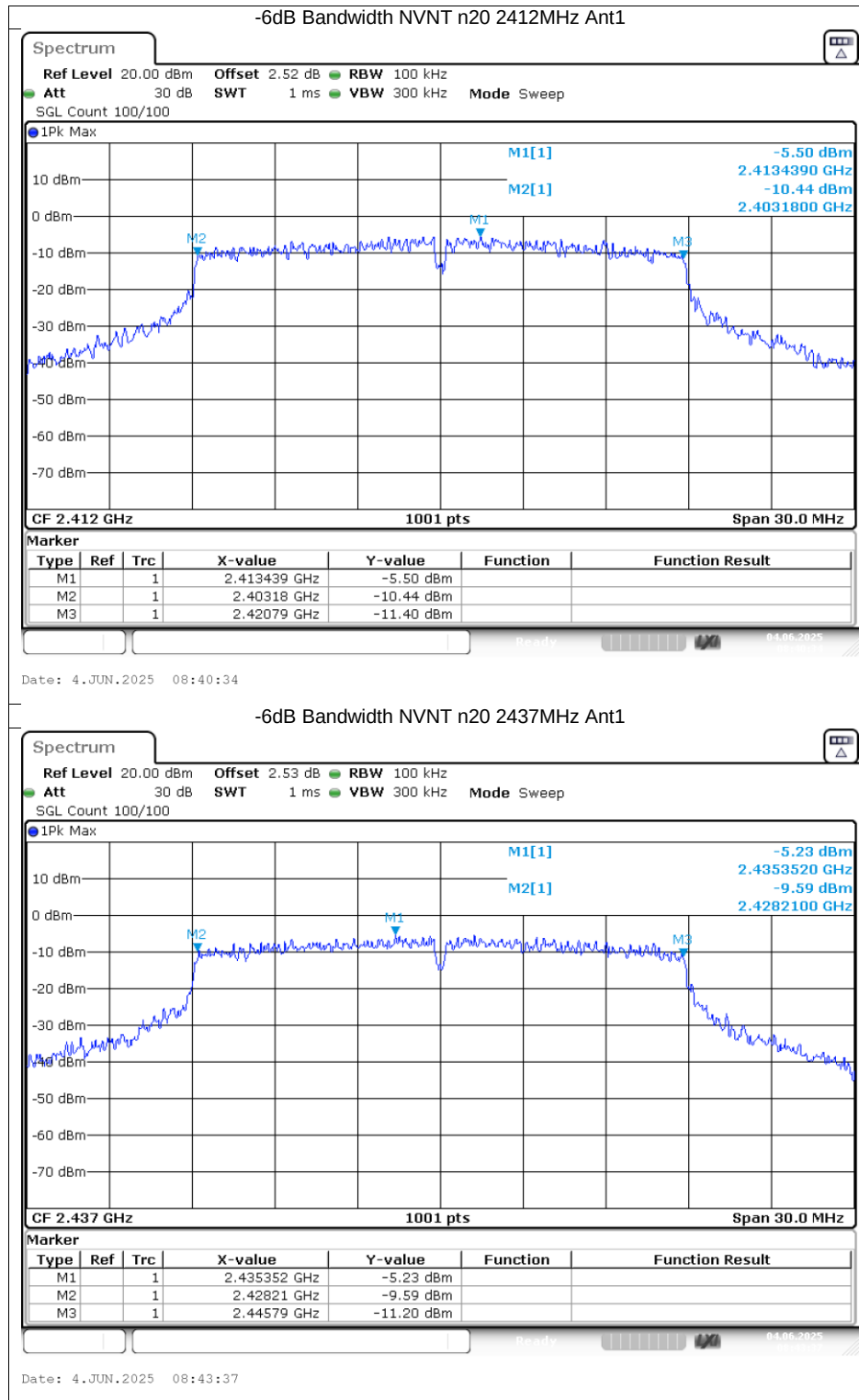
-6dB Bandwidth

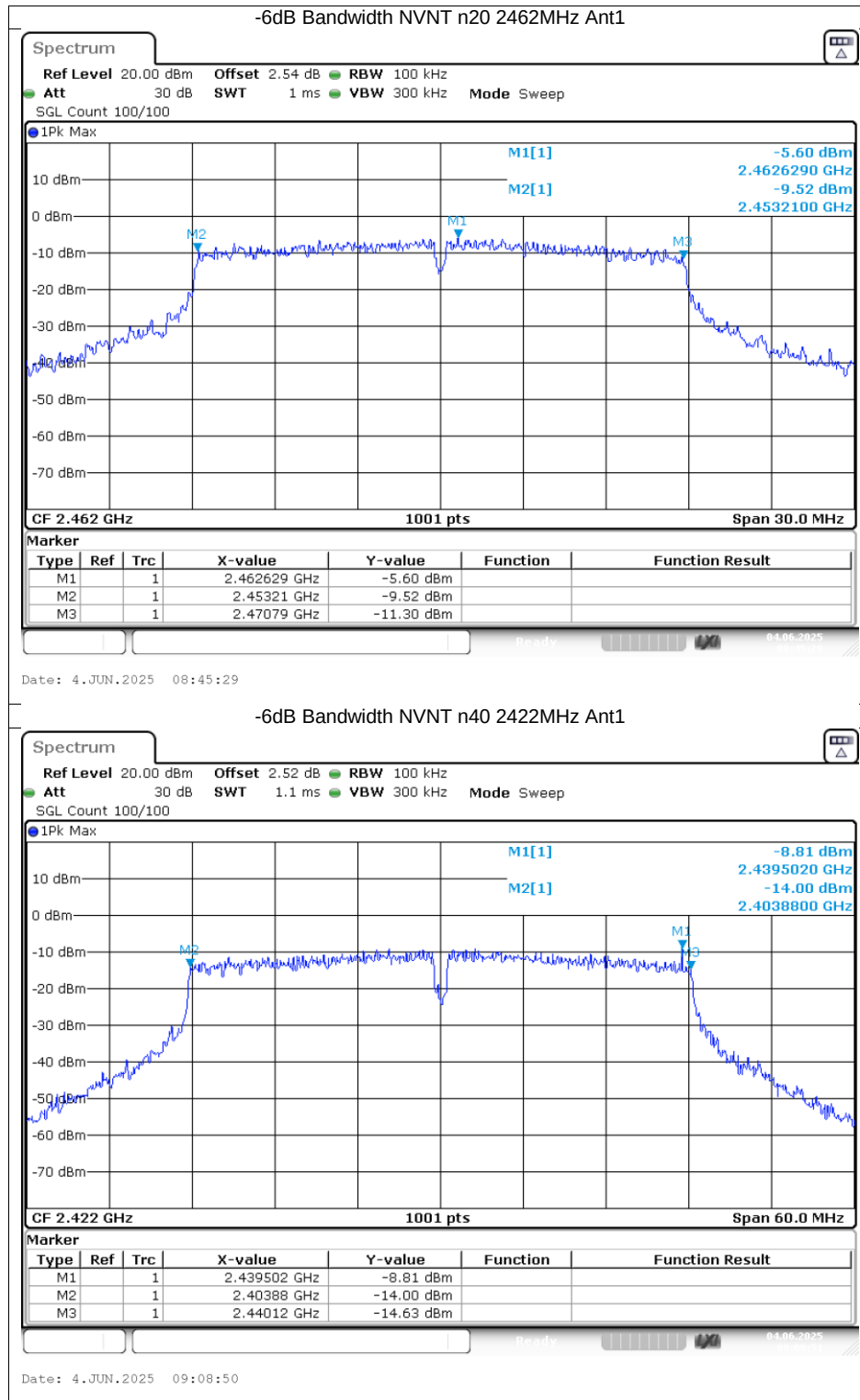
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.53	0.5	Pass
NVNT	b	2437	Ant1	9.07	0.5	Pass
NVNT	b	2462	Ant1	9.53	0.5	Pass
NVNT	g	2412	Ant1	16.35	0.5	Pass
NVNT	g	2437	Ant1	15.03	0.5	Pass
NVNT	g	2462	Ant1	16.32	0.5	Pass
NVNT	n20	2412	Ant1	17.61	0.5	Pass
NVNT	n20	2437	Ant1	17.58	0.5	Pass
NVNT	n20	2462	Ant1	17.58	0.5	Pass
NVNT	n40	2422	Ant1	36.24	0.5	Pass
NVNT	n40	2437	Ant1	36.12	0.5	Pass
NVNT	n40	2452	Ant1	35.46	0.5	Pass
NVNT	ax20	2412	Ant1	18.75	0.5	Pass
NVNT	ax20	2437	Ant1	17.82	0.5	Pass
NVNT	ax20	2462	Ant1	18.87	0.5	Pass
NVNT	ax40	2422	Ant1	36.48	0.5	Pass
NVNT	ax40	2437	Ant1	33.3	0.5	Pass
NVNT	ax40	2452	Ant1	31.08	0.5	Pass

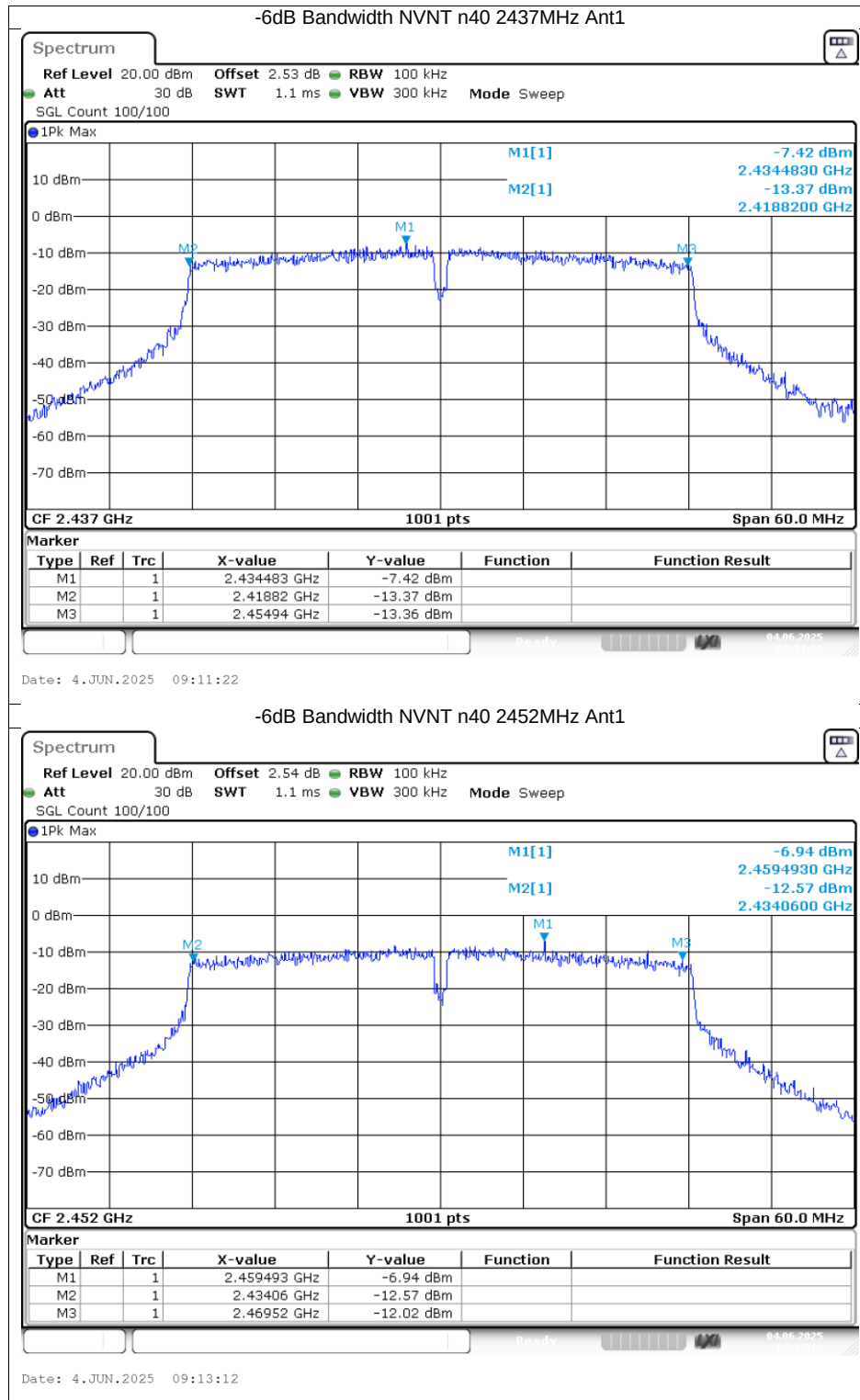


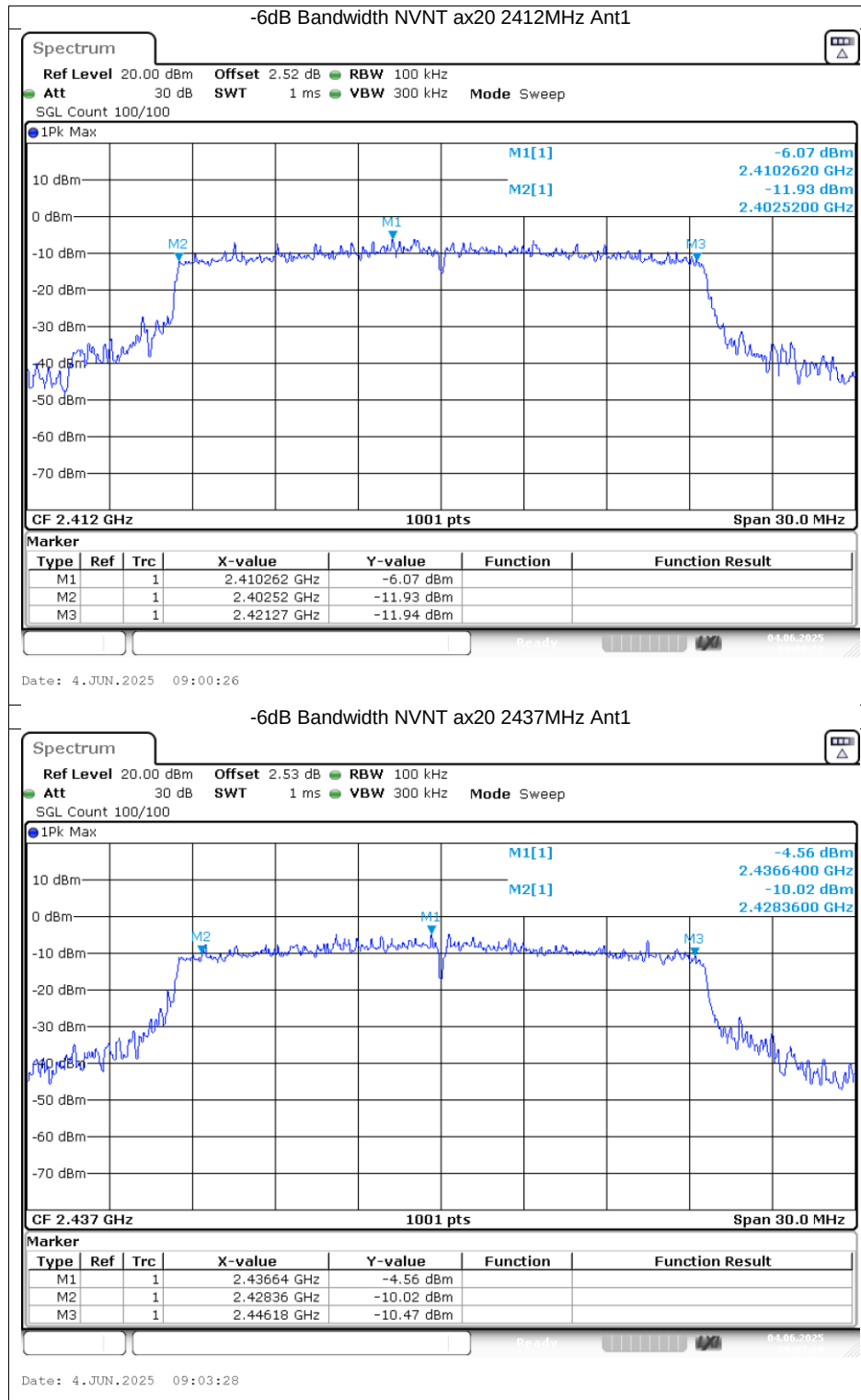


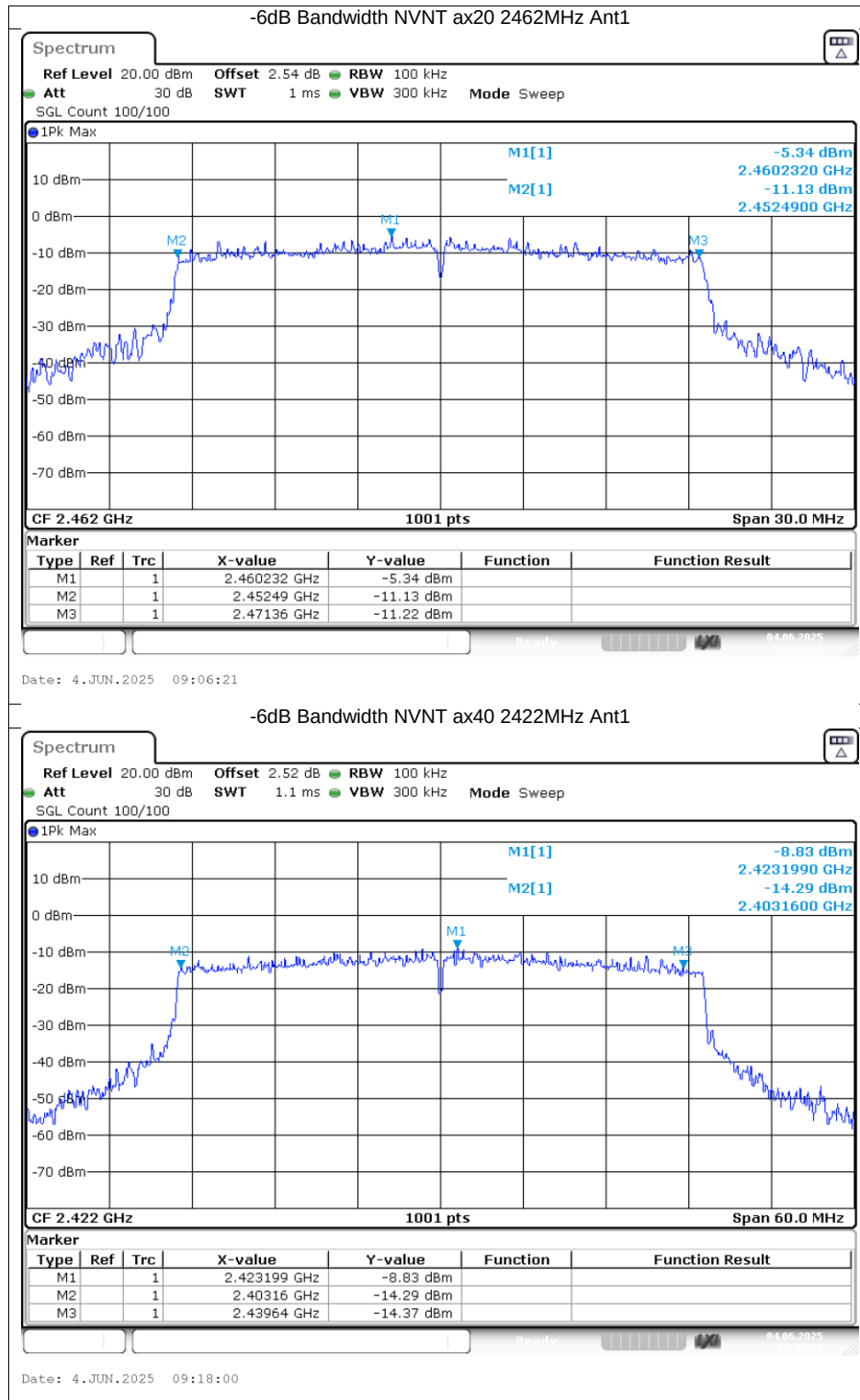


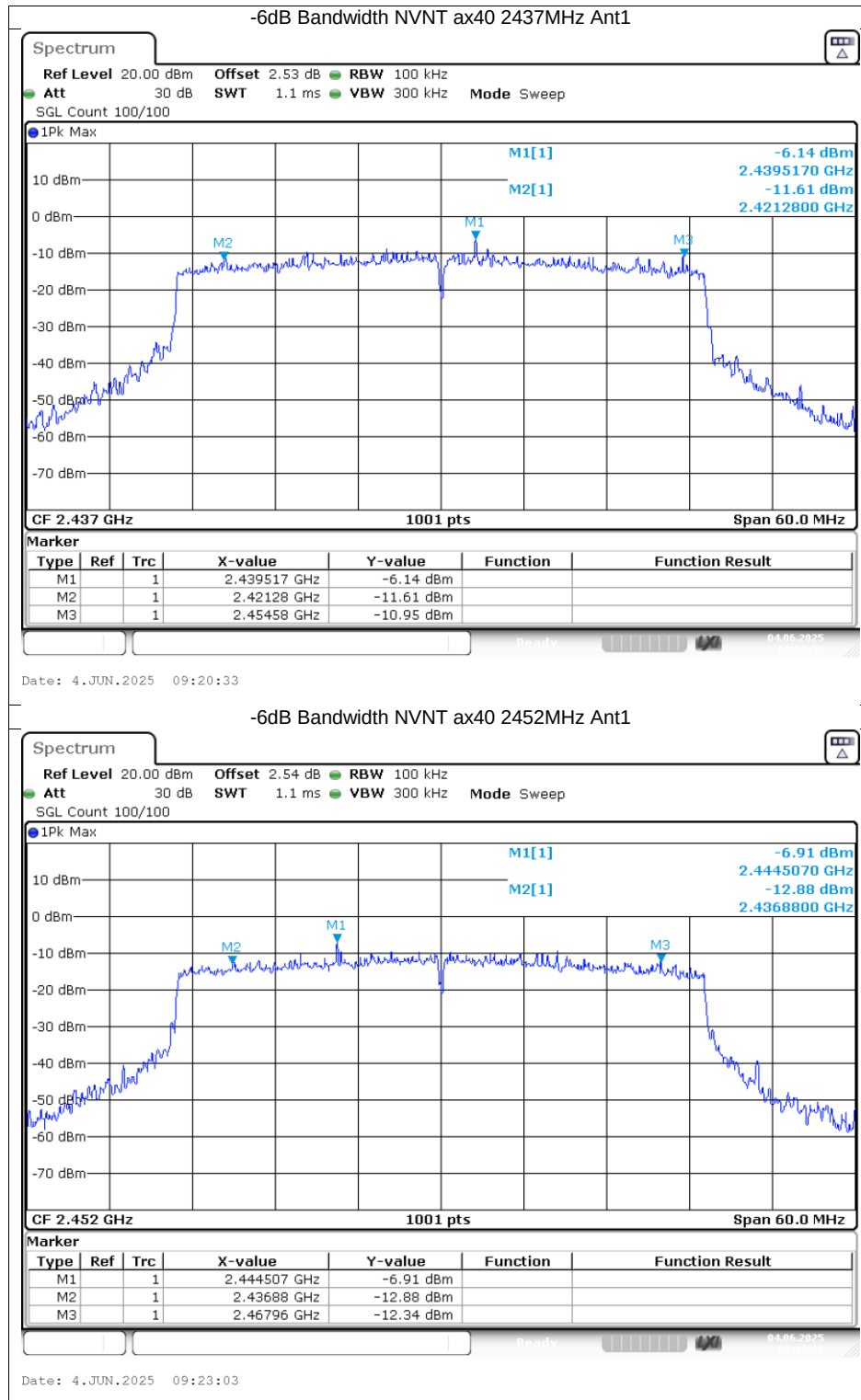






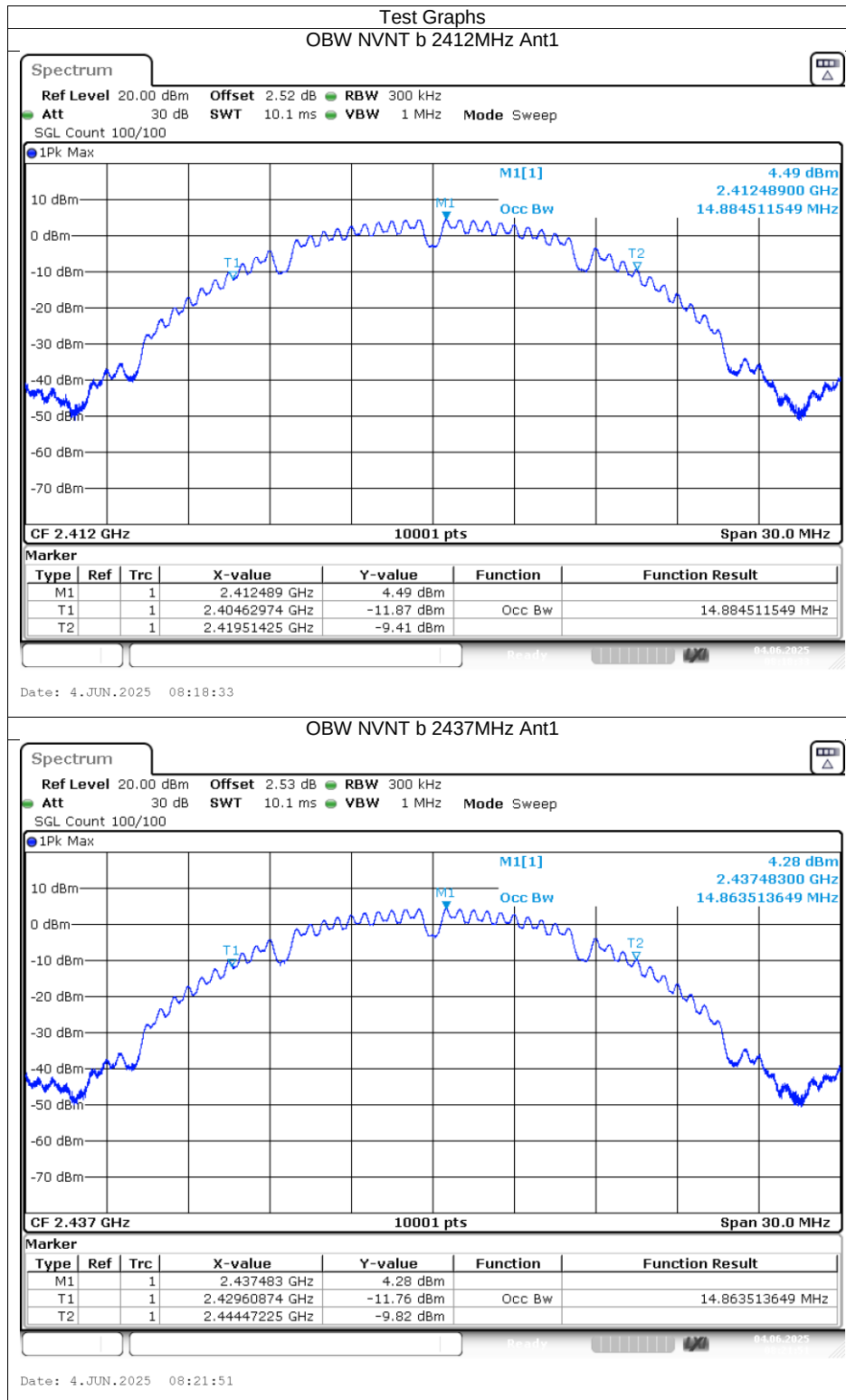


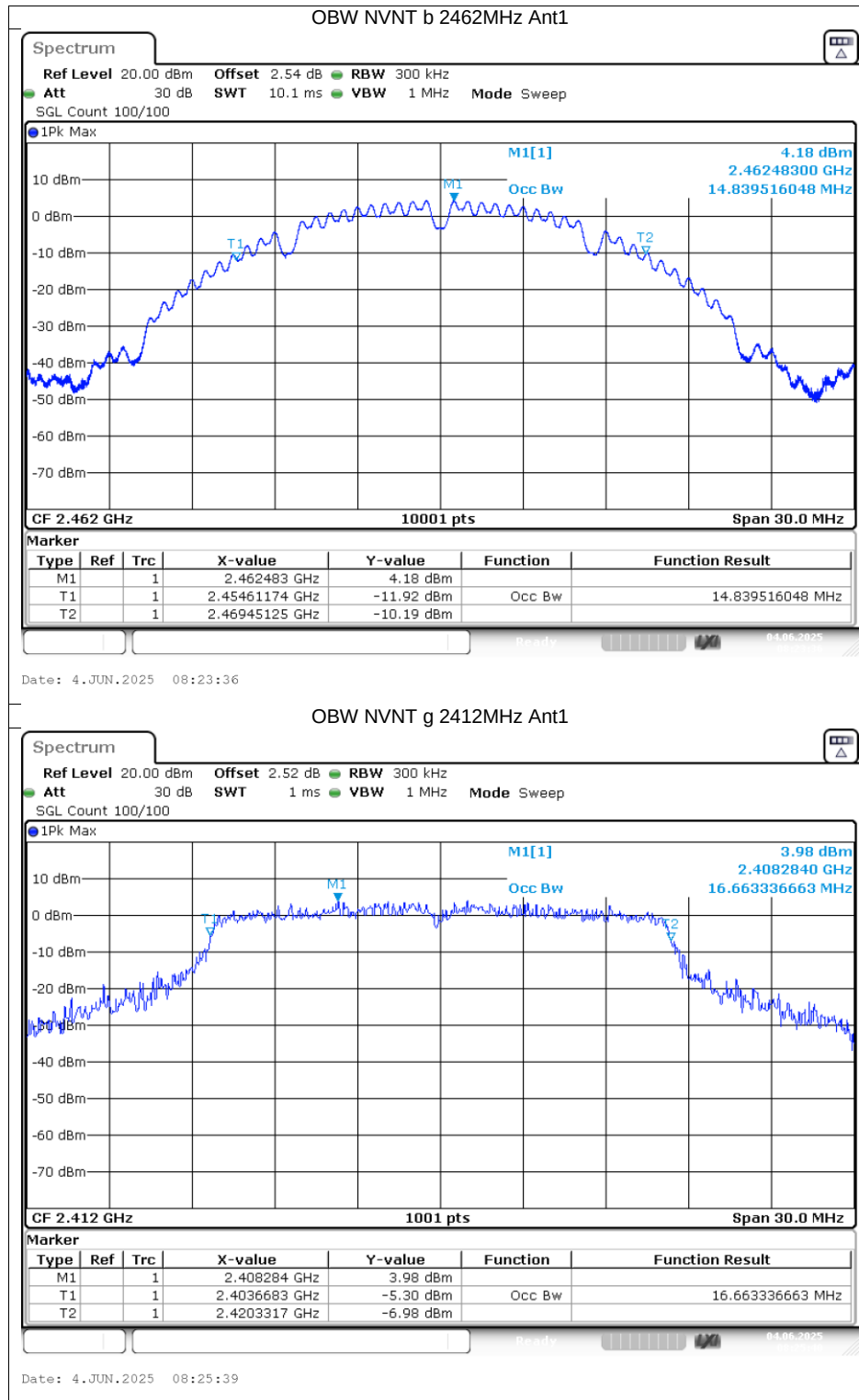


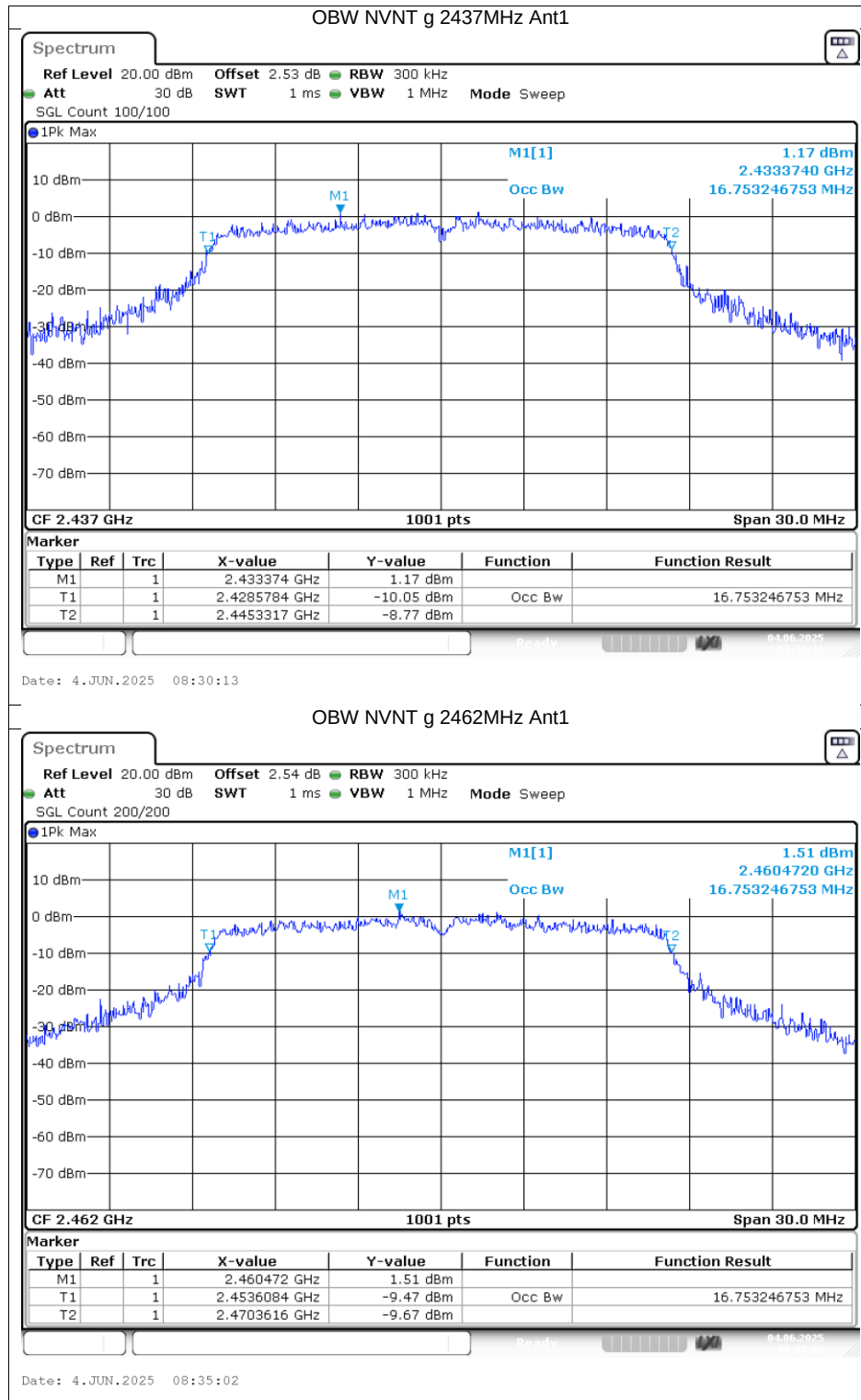


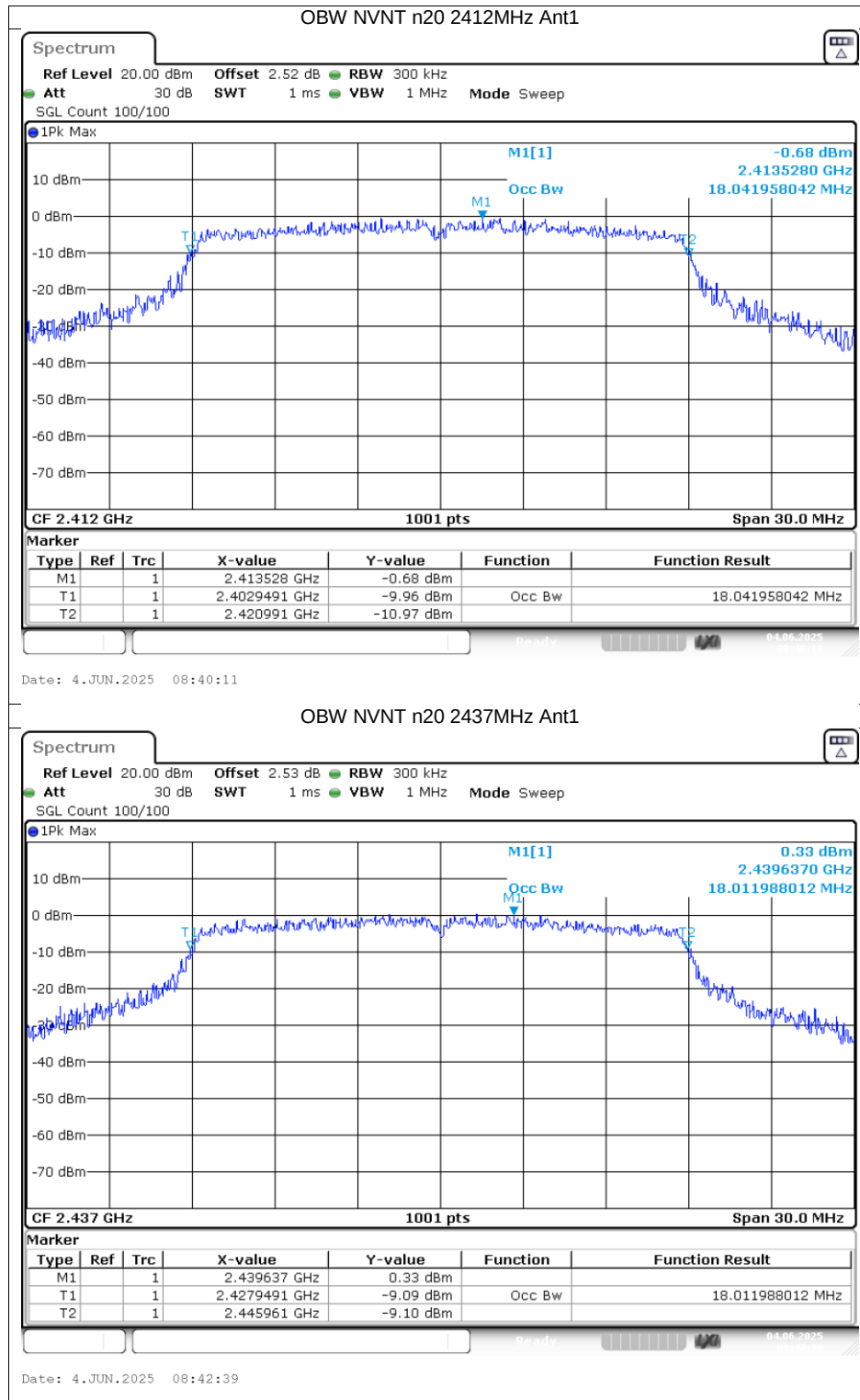
Occupied Channel Bandwidth

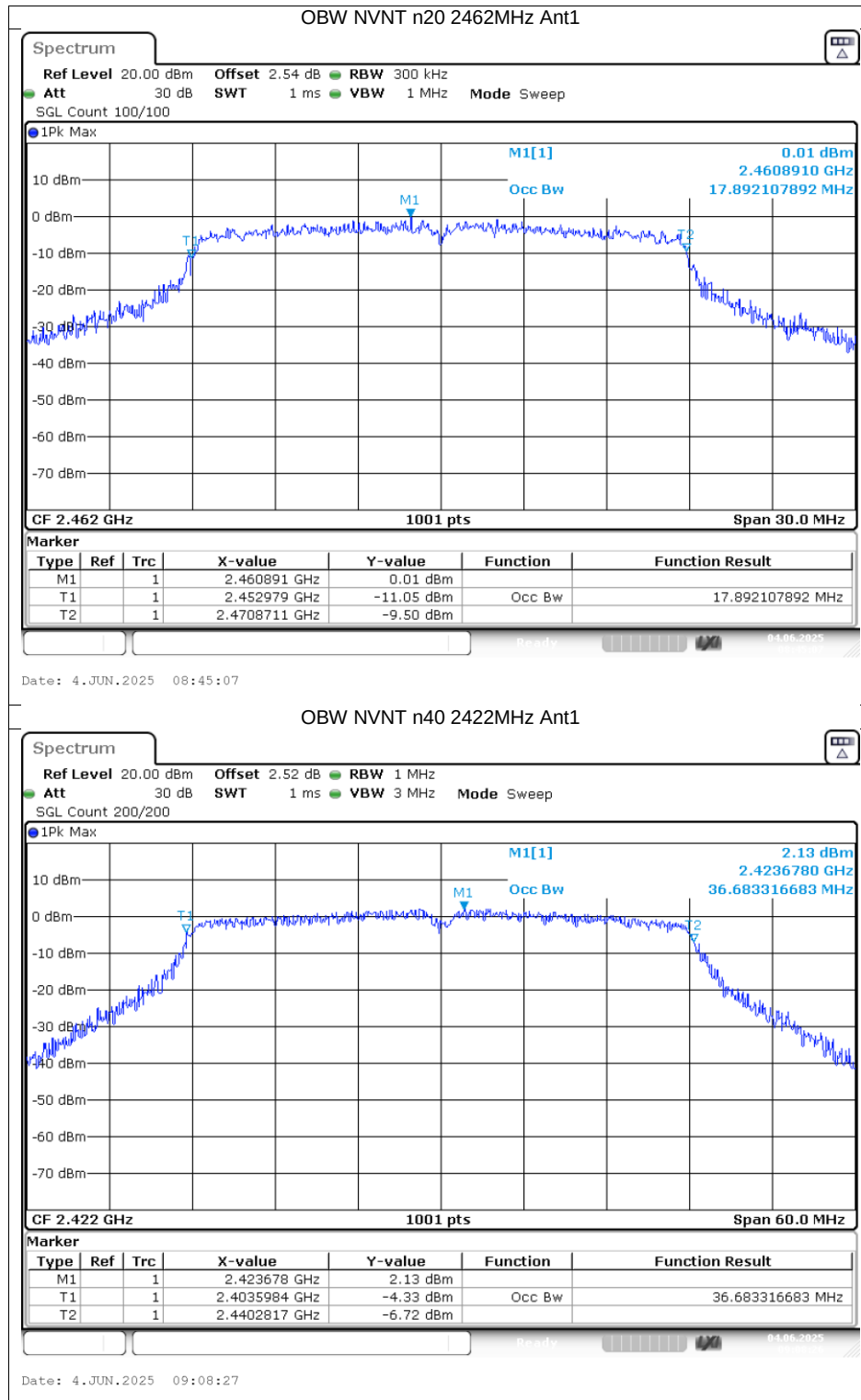
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	14.885
NVNT	b	2437	Ant1	14.864
NVNT	b	2462	Ant1	14.84
NVNT	g	2412	Ant1	16.663
NVNT	g	2437	Ant1	16.753
NVNT	g	2462	Ant1	16.753
NVNT	n20	2412	Ant1	18.042
NVNT	n20	2437	Ant1	18.012
NVNT	n20	2462	Ant1	17.892
NVNT	n40	2422	Ant1	36.683
NVNT	n40	2437	Ant1	36.623
NVNT	n40	2452	Ant1	36.683
NVNT	ax20	2412	Ant1	19.001
NVNT	ax20	2437	Ant1	19.001
NVNT	ax20	2462	Ant1	19.001
NVNT	ax40	2422	Ant1	37.942
NVNT	ax40	2437	Ant1	37.822
NVNT	ax40	2452	Ant1	37.882

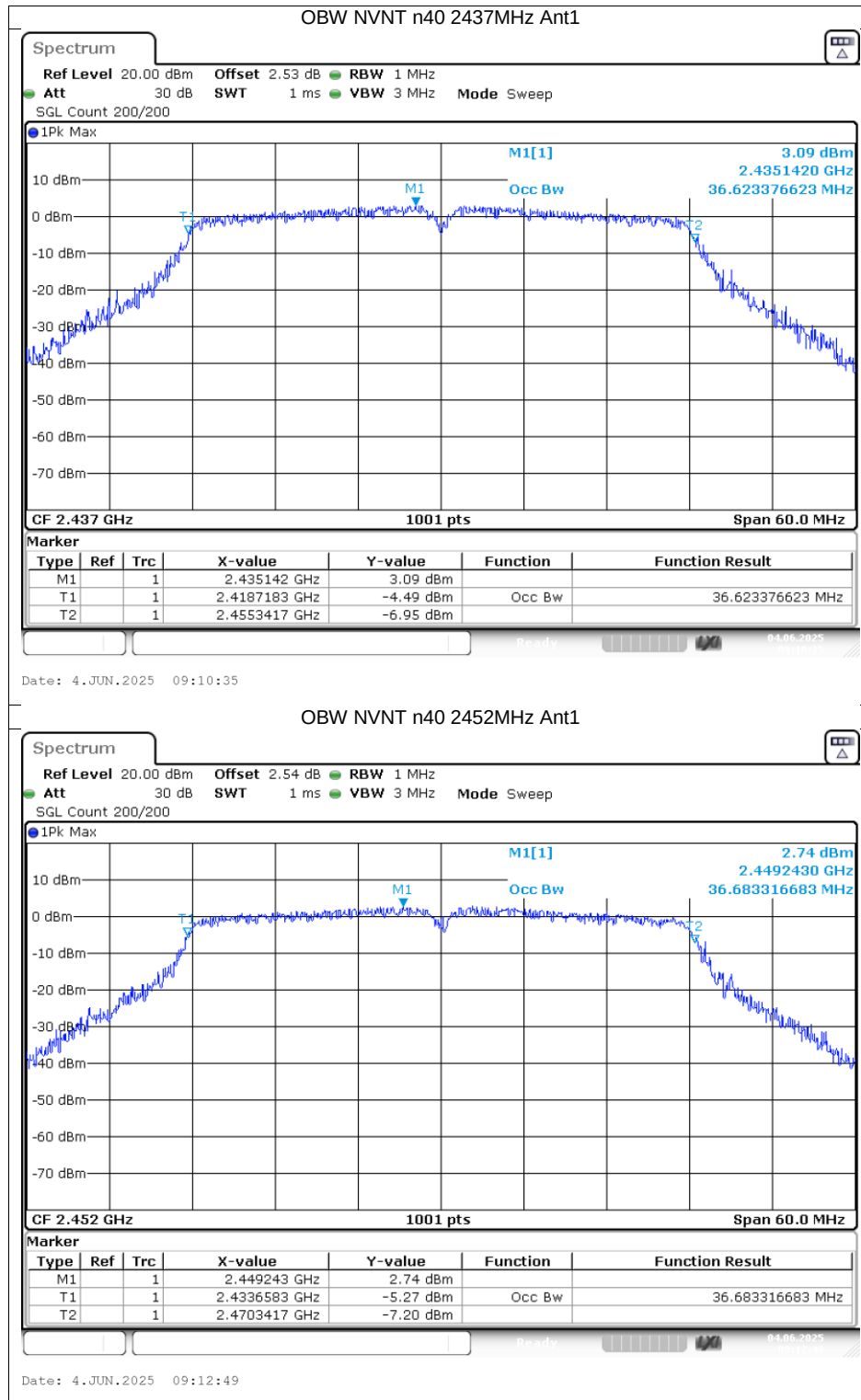


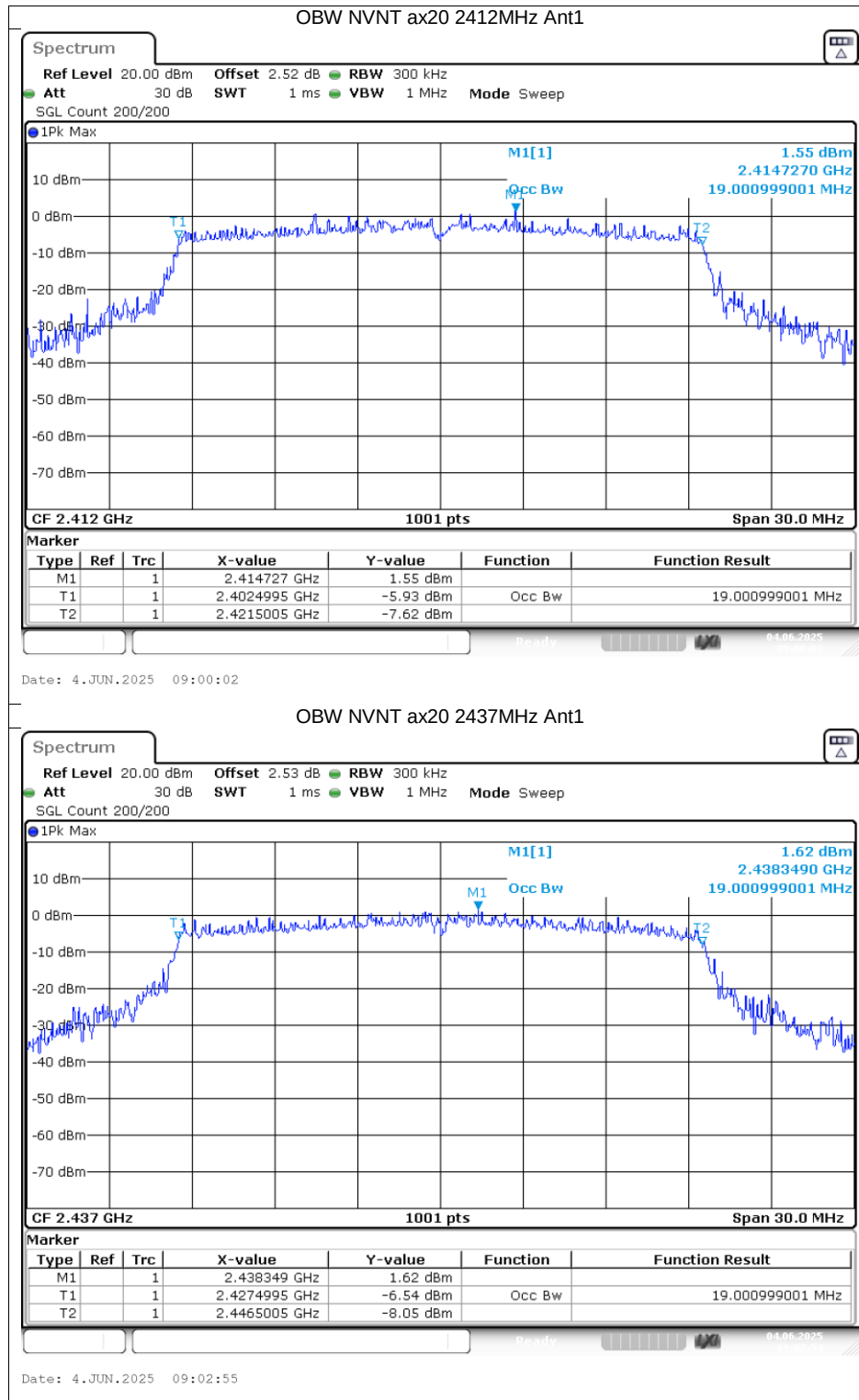


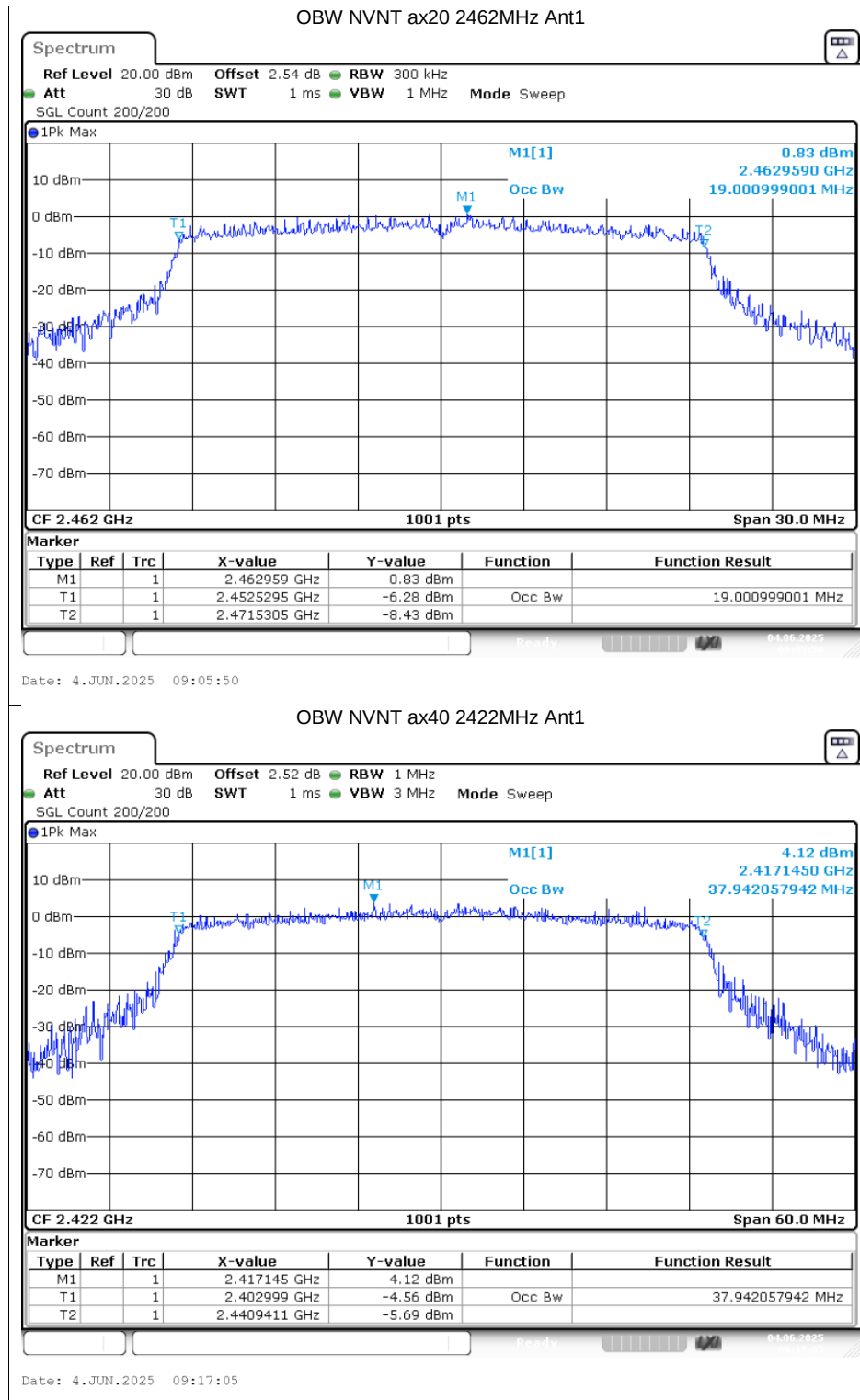


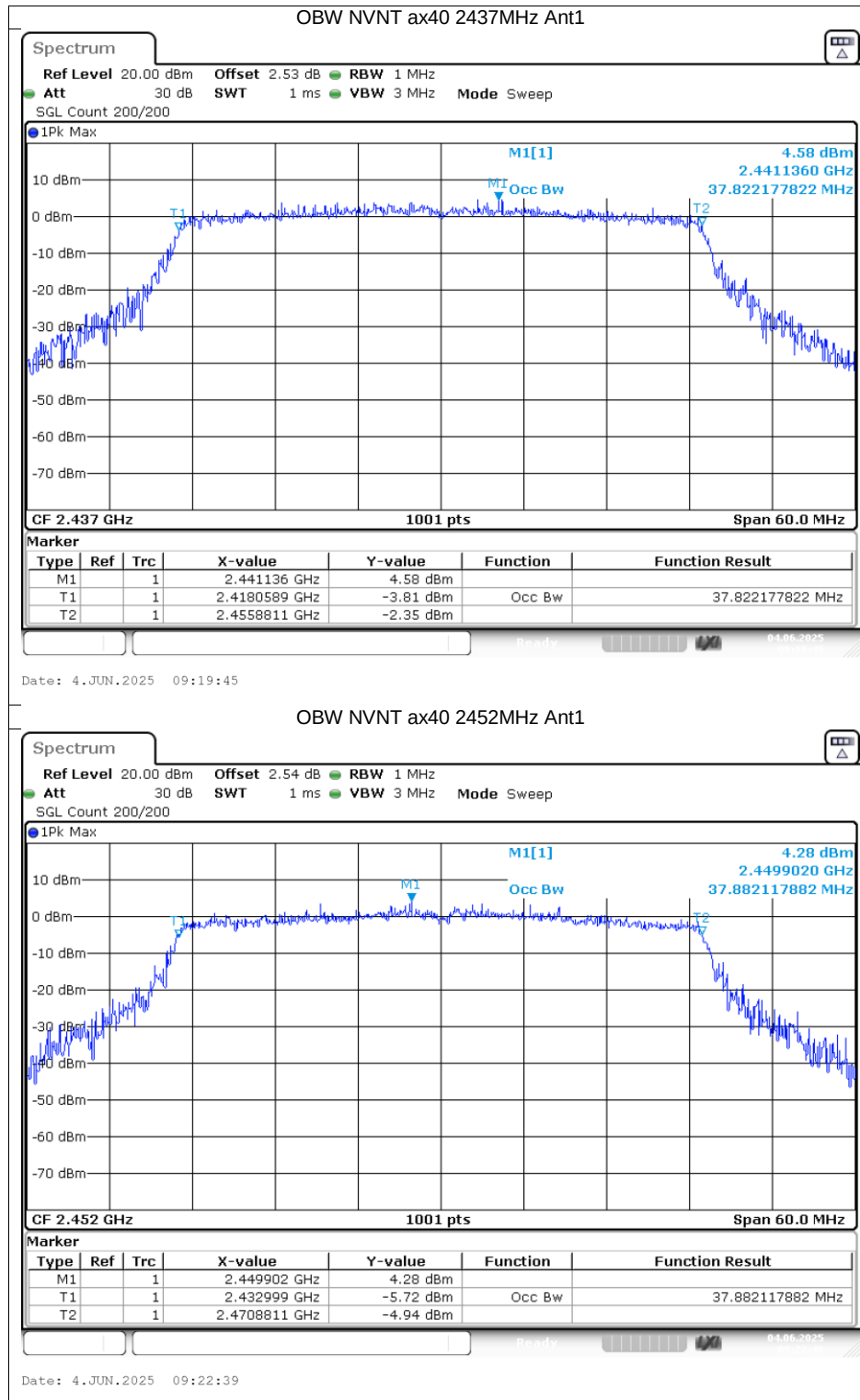












Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-10.82	8	Pass
NVNT	b	2437	Ant1	-11.15	8	Pass
NVNT	b	2462	Ant1	-11.71	8	Pass
NVNT	g	2412	Ant1	-15.92	8	Pass
NVNT	g	2437	Ant1	-15.76	8	Pass
NVNT	g	2462	Ant1	-16.86	8	Pass
NVNT	n20	2412	Ant1	-16.9	8	Pass
NVNT	n20	2437	Ant1	-15.93	8	Pass
NVNT	n20	2462	Ant1	-17.04	8	Pass
NVNT	n40	2422	Ant1	-19.72	8	Pass
NVNT	n40	2437	Ant1	-18.97	8	Pass
NVNT	n40	2452	Ant1	-19.3	8	Pass
NVNT	ax20	2412	Ant1	-16.47	8	Pass
NVNT	ax20	2437	Ant1	-17.26	8	Pass
NVNT	ax20	2462	Ant1	-18.26	8	Pass
NVNT	ax40	2422	Ant1	-20.85	8	Pass
NVNT	ax40	2437	Ant1	-20.71	8	Pass
NVNT	ax40	2452	Ant1	-21.22	8	Pass

