NVLAP TESTING
NVLAP LAB CODE 600354-0

FCC Radio Test Report

FCC ID: 2A29YPM6264S

This report concerns: Original Grant

Project No.	:	2311C096
Equipment	:	Optical Network Terminal (ONT)
Brand Name	:	Radisys
Test Model	:	PM6264S
Series Model	:	N/A
Applicant	:	Radisys Corporation
Address	:	8900 NE Walker Road, Suite#130, Hillsboro, OR 97006,USA
Manufacturer	:	Radisys Corporation
Address	:	8900 NE Walker Road, Suite#130, Hillsboro, OR 97006,USA
Factory	:	Sercomm Corporation
Address	:	8F, No. 3-1, YuanQu St. (Nankang Software Park) Taipei 115, Taiwan
Date of Receipt	:	Nov. 27, 2023
Date of Test	:	Nov. 28, 2023 ~ Dec. 19, 2023
Issued Date	:	Dec. 25, 2023
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG20231127171 for conducted, DG20231127170, DG20231127169 for radiated.
Standard(s)	:	FCC CFR Title 47, Part 15, Subpart C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Prepared by : Antony Liang

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.
Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2311C096	R00	Original Report.	Dec. 25, 2023	Valid

1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:
ANSI C63.10-2013
The following reference test guidance is not within the scope of accreditation of NVLAP:
KDB 558074 D01 15.247 Meas Guidance v05r02
KDB 662911 D01 Multiple Transmitter Output v02r01

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C				
Standard(s) Section	**Test Item**	**Test Result**	**Judgment**	**Remark**
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	------
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	------
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	------
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	------
15.247(d)	Conducted Spurious Emissions	APPENDIX G	PASS	------
15.247(e)	Power Spectral Density	APPENDIX H	PASS	------
15.203	Antenna Requirement	------	PASS	Note(2)

Note:
(1) “N/A” denotes test is not applicable in this test report.
(2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of
For AC power line conducted emissions test and Radiated emissions tests and power:
No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong 523792.
BTL's Registration Number for FCC: 162128
BTL's Designation Number for FCC: CN5042
For other conducted tests:
Room 108, Building 2, No. 1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong 523000
BTL's Registration Number for FCC: 568794
BTL's Designation Number for FCC: CN5041

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))
The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	*U*,(dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.60

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	*U*,(dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	*U*,(dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.36
		30MHz ~ 200MHz	H	3.32
		200MHz ~ 1,000MHz	V	4.08
		200MHz ~ 1,000MHz	H	3.96

Test Site	Method	Measurement Frequency Range	*U*,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	3.80
		6GHz ~ 18GHz	4.82

Test Site	Method	Measurement Frequency Range	*U*,(dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.62
		26.5 ~ 40 GHz	4.00

C. Other Measurement:

Test Item	Uncertainty
Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Conducted Spurious Emission	±2.71 dB
Power Spectral Density	±0.86 dB
Temperature	±0.08 °C
Humidity	±1.5%

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	54%	AC 120V/60Hz	Hayden Chen
Radiated Emissions-9kHz to 30 MHz	22°C	48%	AC 120V/60Hz	Hayden Chen
Radiated Emissions-30MHz to 1000MHz	23°C	47%	AC 120V/60Hz	Max Wang
Radiated Emissions-Above 1000MHz	22~23°C	44~45%	AC 120V/60Hz	Max Wang
Bandwidth	23.7°C	51%	DC 12V	Tember Zhuang
Maximum Output Power	23.7°C	51%	DC 12V	Tember Zhuang
Conducted Spurious Emissions	23.7°C	51%	DC 12V	Tember Zhuang
Power Spectral Density	23.7°C	51%	DC 12V	Tember Zhuang

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Optical Network Terminal (ONT)
Brand Name	Radisys
Test Model	PM6264S
Series Model	N/A
Model Difference(s)	N/A
Software Version	v3.0.05.01
Hardware Version	00
Power Source	DC voltage supplied from AC adapter. 1# Model: MS-V2500R120-030H0-US 2# Model: S030-1C120250VU
Power Rating	1# Input: 100-240V~ 50/60Hz 1.0A max. Output: 12.0V⎓2.5A 2# Input: 100-240V~ 50/60Hz 0.8A Output: 12.0V⎓2.5A
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 600 Mbps IEEE 802.11ax: up to 1147.2 Mbps
Maximum Output Power _Non Beamforming	IEEE 802.11g: 25.52 dBm (0.3565 W)
Maximum Output Power _Beamforming	IEEE 802.11ax(HE20): 24.81 dBm (0.3027 W)

Note:

1. For a more detailed features description, please refer to the manufacturer’s specifications or the user's manual.

2. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20), IEEE 802.11ax(HE20) CH03 - CH09 for IEEE 802.11n(HT40), IEEE 802.11ax(HE40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	HLtronics	N/A	Dipole	N/A	3.1
2	HLtronics	N/A	Dipole	N/A	3.2
3	HLtronics	N/A	Dipole	N/A	3.7
4	HLtronics	N/A	Dipole	N/A	3.1

Note:

1) This EUT supports CDD, and all antenna gains are not equal, Directional gain = G_{ANT} + Array Gain,
For Power measurement, Array Gain = 0 dB($N_{ANT} \leqslant 4$), so Directional gain=3.7+0=3.7.
For Power Spectral Density measurement, N_{ANT} =4, N_{SS} =1,
So Directional gain= G_{ANT} + Array Gain = G_{ANT} + 10 log(N_{ANT}/N_{ss}) =3.7+10 log(4/1) =9.72
So the power spectral density limit is 8-(9.72-6)=4.28.
2) The beamforming gain is 6dB. So Directional gain=3.7+6=9.7dBi,
So the power limit is 30-(9.7-6)=26.3.
3) The antenna gain and beamforming gain are provided by the manufacturer.

4. Table for Antenna Configuration:

For Non Beamforming:

Operating Mode / TX Mode	4TX
IEEE 802.11b	V(Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11g	V(Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11n(HT20)	V(Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11n(HT40)	V(Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ax(HE20)	V(Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ax(HE40)	V(Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)

For Beamforming:

Operating Mode / TX Mode	4TX
IEEE 802.11n(HT20)	V(Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11n(HT40)	V(Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ax(HE20)	V(Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ax(HE40)	V(Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)

3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09
Mode 7	TX G Mode Channel 01

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 7	TX G Mode Channel 01

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 7	TX G Mode Channel 01

Radiated emissions test- Above 1GHz_Non Beamforming	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

Output Power test_Non Beamforming	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

Output Power test_Beamforming	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

Other Conducted test_Non Beamforming	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

NOTE:
(1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
(2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX G Mode Channel 01 is found to be the worst case and recorded.
(3) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
(4) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.
(5) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.
(6) For AC power line conducted emissions and radiated emissions 9kHz to 30 MHz test, all adapters had been pre-tested and in this report only recorded the worst case(Model: MS-V2500R120-030H0-US).
(7) For radiated emission above 1 GHz test: The polarization of vertical and horizontal are evaluated, the worst case is horizontal and recorded.

3.3 PARAMETERS OF TEST SOFTWARE

Non Beamforming

Test Software Version	accessMTool_REL_3_3_0_6		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	67	68	68
IEEE 802.11g	72	74	68
IEEE 802.11n(HT20)	69	74	66
IEEE 802.11ax(HE20)	66	72	64
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	73	74	68
IEEE 802.11ax(HE40)	73	72	66

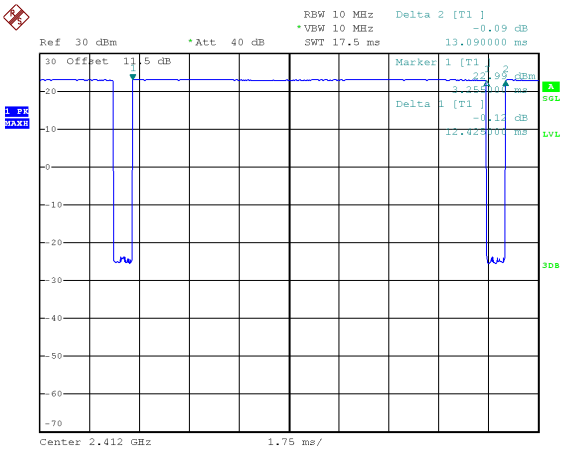
Beamforming

Test Software Version	accessMTool_REL_3_3_0_6		
Frequency (MHz)	2412	2437	2462
IEEE 802.11n(HT20)	68	73	65
IEEE 802.11ax(HE20)	65	71	63
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	72	73	67
IEEE 802.11ax(HE40)	72	71	65

3.4 DUTY CYCLE

If duty cycle is ≥ 98 %, duty factor is not required.
If duty cycle is < 98 %, duty factor shall be considered.
The output power = measured power + duty factor.

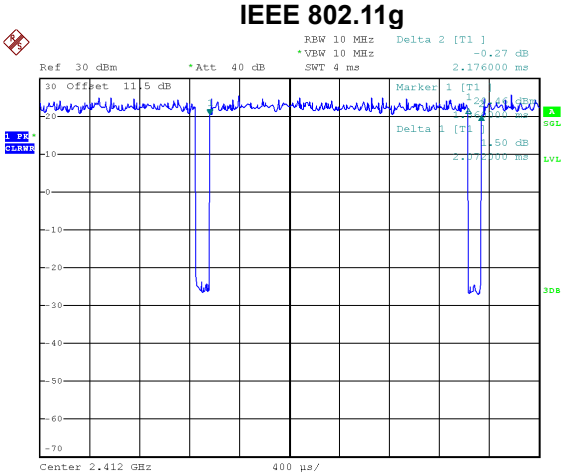
IEEE 802.11b



Date: 1.JAN.2003 01:11:36

Duty cycle = 12.425 ms / 13.090 ms = 94.92%
Duty Factor = 10 log(1/Duty cycle) = 0.23

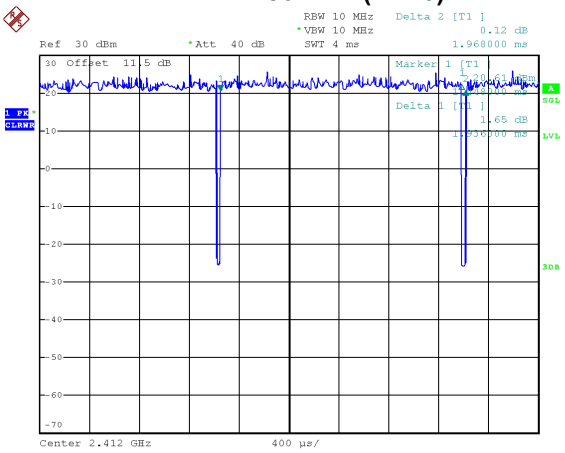
IEEE 802.11g



Date: 1.JAN.2003 01:13:45

Duty cycle = 2.072 ms / 2.176 ms = 95.22%
Duty Factor = 10 log(1/Duty cycle) = 0.21

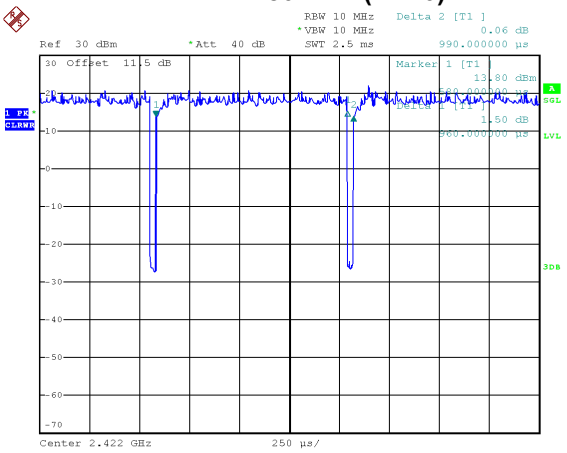
IEEE 802.11n(HT20)



Date: 1.JAN.2003 01:14:52

Duty cycle = 1.936 ms / 1.968 ms = 98.37%
Duty Factor = 10 log(1/Duty cycle) = 0.00

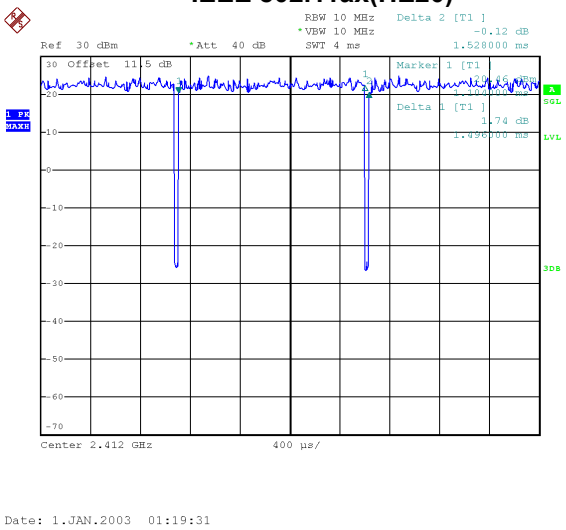
IEEE 802.11n(HT40)



Date: 1.JAN.2003 01:16:20

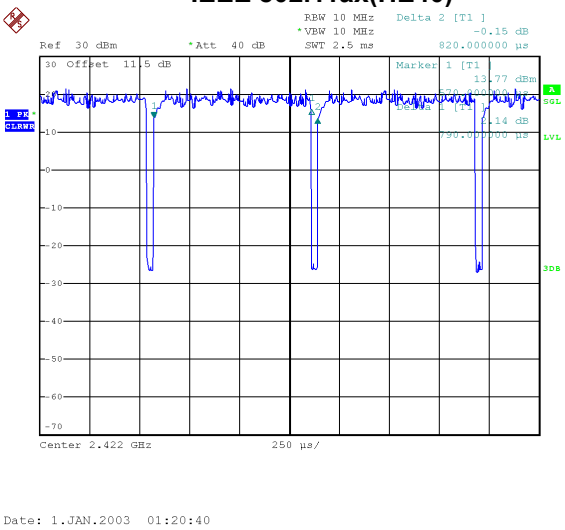
Duty cycle = 0.960 ms / 0.990 ms = 96.97%
Duty Factor = 10 log(1/Duty cycle) = 0.13

IEEE 802.11ax(HE20)



Duty cycle = 1.496 ms / 1.528 ms = 97.91%
Duty Factor = 10 log(1/Duty cycle) = 0.09

IEEE 802.11ax(HE40)



Duty cycle = 0.790 ms / 0.820 ms = 96.34%
Duty Factor = 10 log(1/Duty cycle) = 0.16

NOTE:
For IEEE 802.11b:
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 80 Hz.

For IEEE 802.11g:
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 483 Hz.

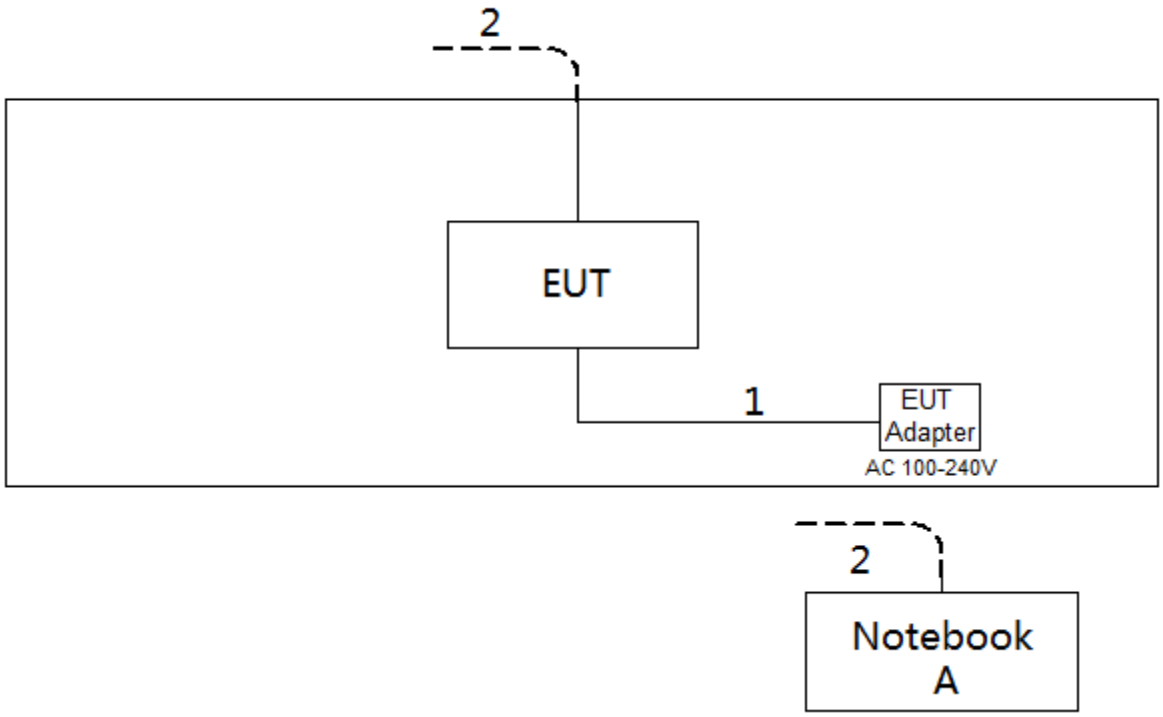
For IEEE 802.11n(HT20):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz.

For IEEE 802.11n(HT40):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1042 Hz.

For IEEE 802.11ax(HE20):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 668 Hz.

For IEEE 802.11ax(HE40):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1266 Hz.

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Honor	Nbl-WAQ9HNRP	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.5m
2	RJ45 Cable	NO	NO	10m

4. AC POWER LINE CONDUCTED EMISSIONS

4.1 LIMIT

Frequency of Emission (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

(1) The tighter limit applies at the band edges.
(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

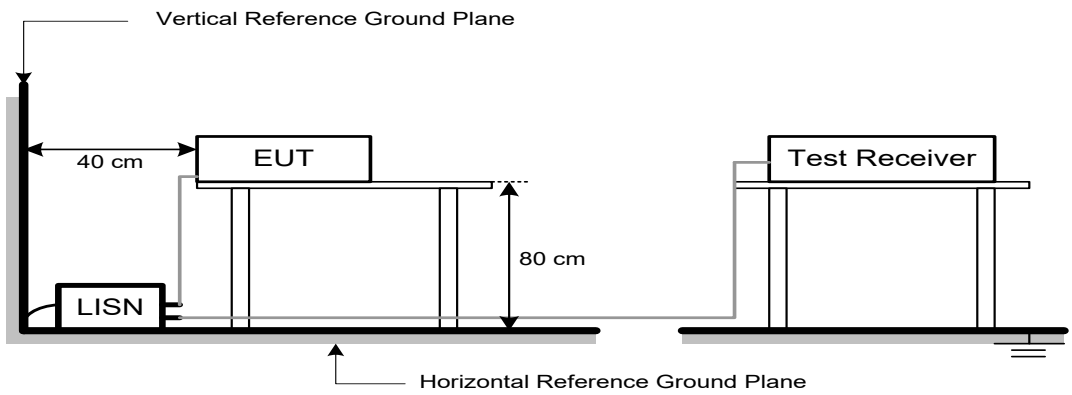
The following table is the setting of the receiver:

Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS

Please refer to the APPENDIX A.

5. RADIATED EMISSIONS

5.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 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
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

NOTE:

(1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
(2) The tighter limit applies at the band edges.
(3) Emission level (dBuV/m)=20log Emission level (uV/m).

5.2 TEST PROCEDURE

a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

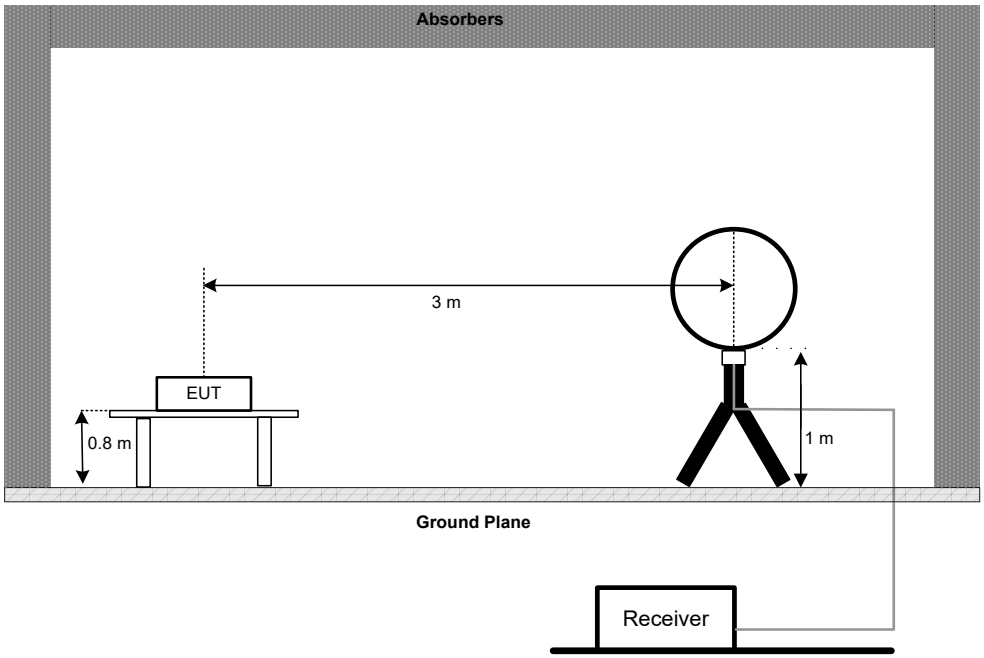
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector

5.3 DEVIATION FROM TEST STANDARD

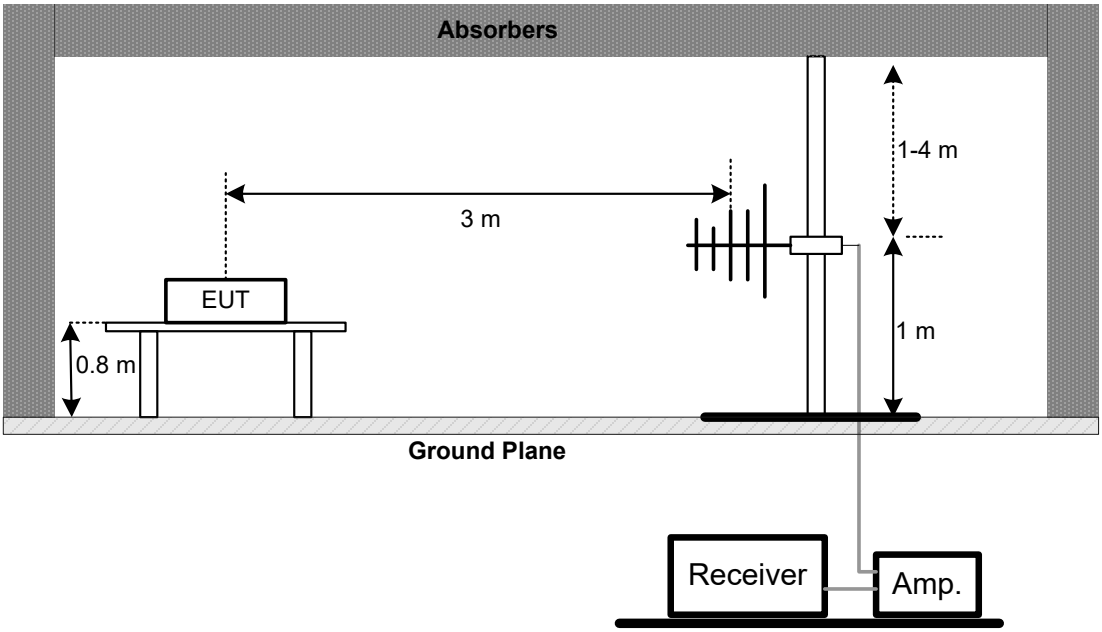
No deviation.

5.4 TEST SETUP

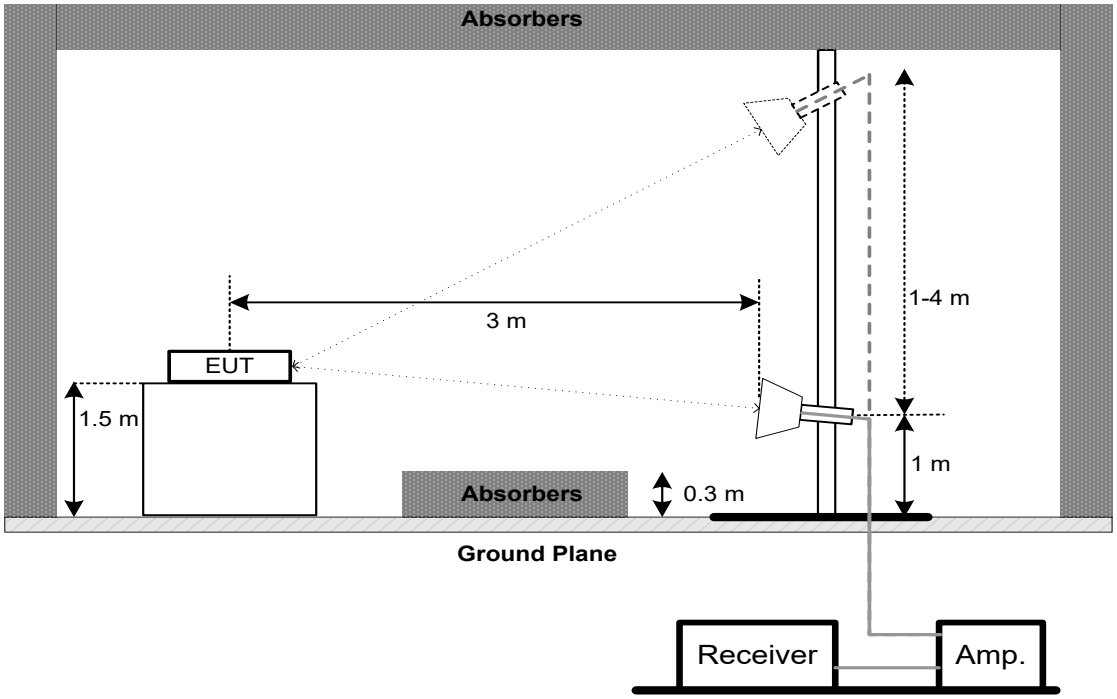
9 kHz to 30 MHz



30 MHz to 1 GHz



Above 1 GHz



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

(1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
(2) Limit line = specific limits (dBuV) + distance extrapolation factor.

5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

5.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

6. BANDWIDTH

6.1 LIMIT

Section	Test Item	Limit
FCC 15.247(a)(2)	6 dB Bandwidth	Minimum 500 kHz
	99% Emission Bandwidth	-

6.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

Spectrum Parameters	Setting
Span Frequency	> Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

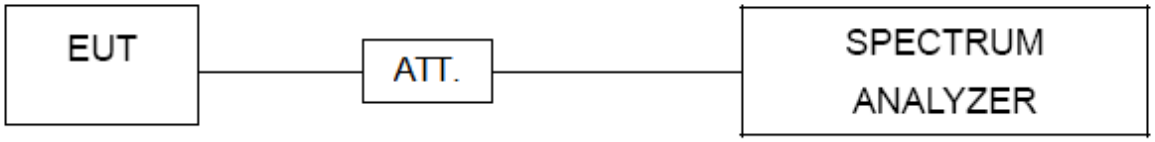
For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	300 kHz For 20MHz 1 MHz For 40MHz
VBW	1 MHz For 20MHz 3 MHz For 40MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX E.

7. MAXIMUM OUTPUT POWER

7.1 LIMIT

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Output Power	1.0000 Watt or 30.00 dBm

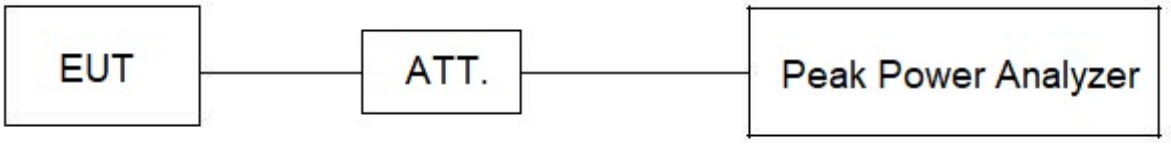
7.2 TEST PROCEDURE

a. The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
b. The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX F.

8. CONDUCTED SPURIOUS EMISSIONS

8.1 LIMIT

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

8.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP

8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX G.

9. POWER SPECTRAL DENSITY

9.1 LIMIT

Section	Test Item	Limit
FCC 15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

9.2 TEST PROCEDURE

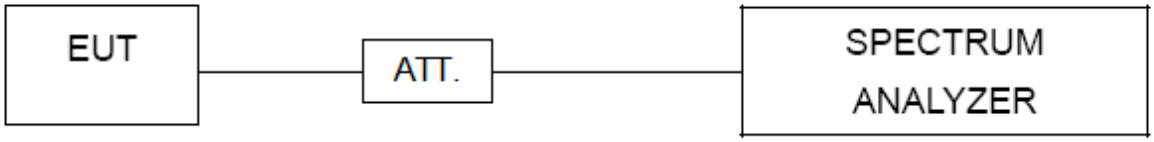
a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	25 MHz (20 MHz) / 60 MHz (40 MHz)
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULTS

Please refer to the APPENDIX H.

10. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESR3	103027	Jun. 16, 2024
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Jan. 07, 2024
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9M -001	9M	Nov. 27, 2024
5	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60B	1513-60 B-034	Apr. 01, 2024
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Jan. 07, 2024
3	Cable	N/A	RW2350-3.8A-NMB M-1.5M	N/A	Jun. 10, 2024
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	966 Chamber room	ETS	9*6*6	N/A	Jul. 11, 2024

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	1461	Nov. 28, 2024
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06010	Nov. 28, 2024
3	Preamplifier	EMC INSTRUMENT	EMC001330	980863	Nov. 17, 2024
4	Cable	RegalWay	LMR400-NMNM-12 .5m	N/A	Jul. 04, 2024
5	Cable	RegalWay	LMR400-NMNM-3 m	N/A	Jul. 04, 2024
6	Cable	RegalWay	LMR400-NMNM-0. 5m	N/A	Jul. 04, 2024
7	Receiver	Agilent	N9038A	MY52130039	Jan. 07, 2024
8	Positioning Controller	MF	MF-7802	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	966 Chamber room	CM	9*6*6	N/A	May 17, 2024

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Jan. 07, 2024
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Nov. 17, 2024
3	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	Jun. 16, 2024
4	Double Ridged Guide Antenna	ETS	3115	75789	May 31, 2024
5	Cable	RegalWay	A81-SMAMSMAM-12.5M	N/A	Aug. 08, 2024
6	Cable	RegalWay	RWLP50-4.0A-NMRA SM-2.5M	N/A	Aug. 08, 2024
7	Cable	RegalWay	RWLP50-4.0A-NMRA SMRA-0.8M	N/A	Aug. 08, 2024
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 06, 2024
9	Cable	RegalWay	RWLP50-2.6A-2.92M 2.92M-1.1M	N/A	Jul. 26, 2024
10	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 26, 2024
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 20, 2024
12	966 Chamber room	CM	9*6*6	N/A	May 17, 2024
13	Positioning Controller	MF	MF-7802	N/A	N/A
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth & Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Measurement Software	BTL	BTL Conducted Test	N/A	N/A
2	Cable	Woke	20210802 001	RWP50-402-SMSM-1M	N/A
3	Spectrum Analyzer	R&S	FSP38	100852	Jun. 16, 2024
4	Attenuator	RegalWay	RWA-201-S-10	N/A	Sep. 26, 2024
5	Attenuator	RegalWay	RWA-201-S-6	N/A	Sep. 26, 2024

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jun. 17, 2024
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jun. 17, 2024
3	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A

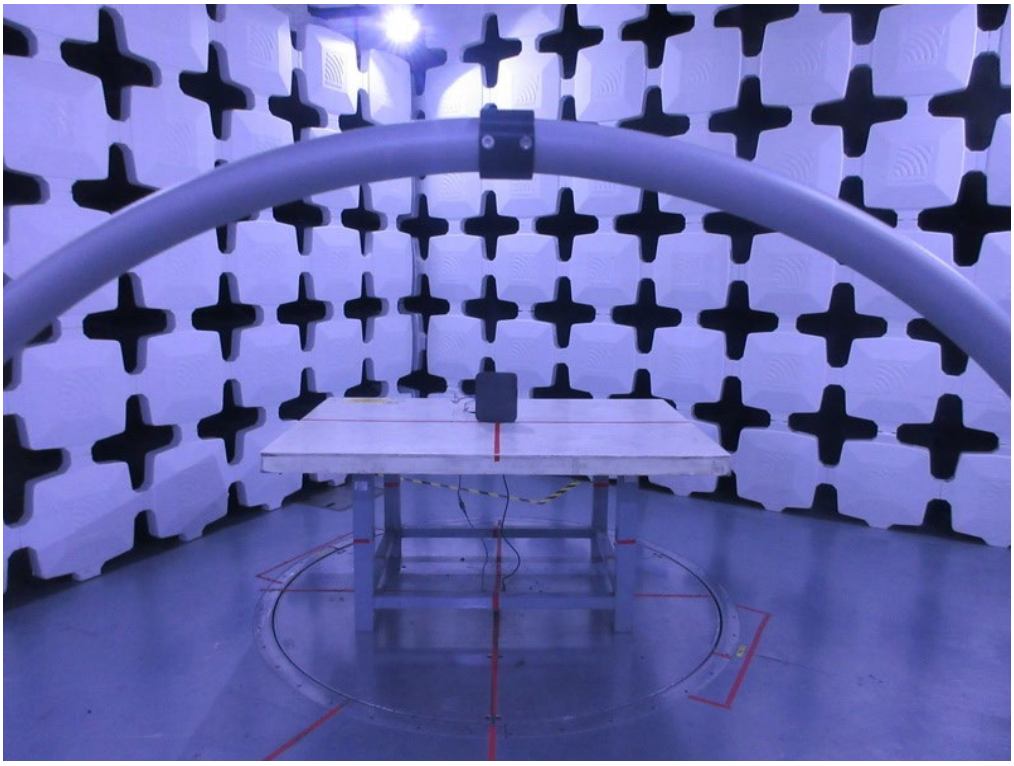
Remark: ”N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

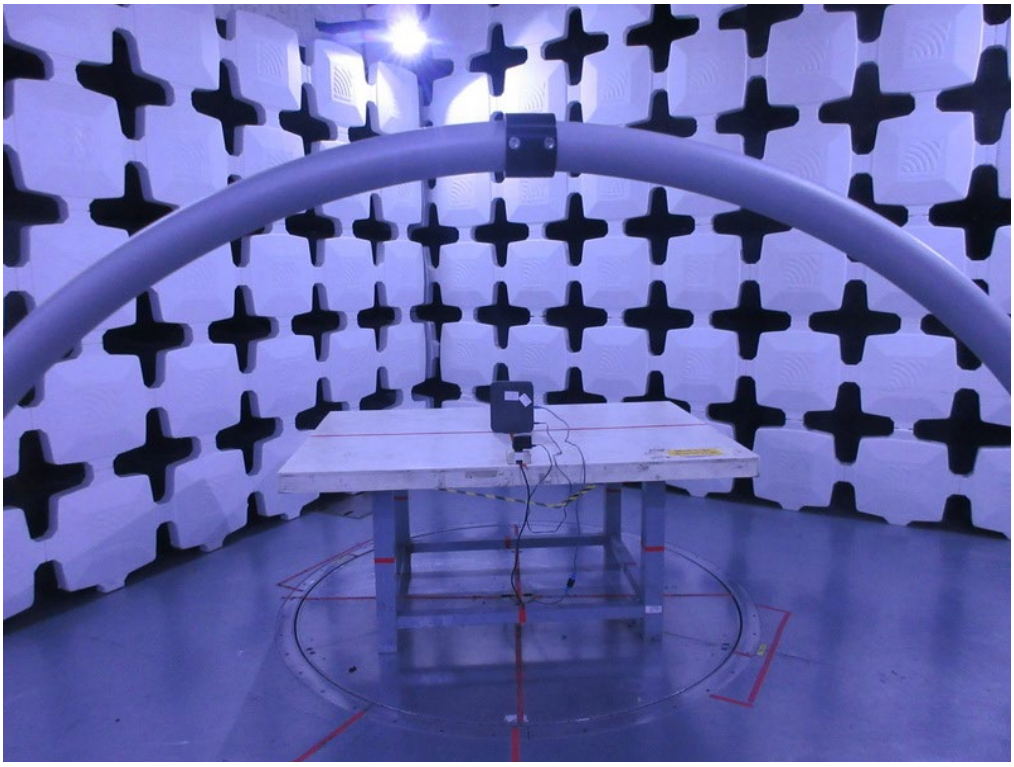
11. EUT TEST PHOTO

AC Power Line Conducted Emissions Test Photos

Radiated Emissions Test Photos

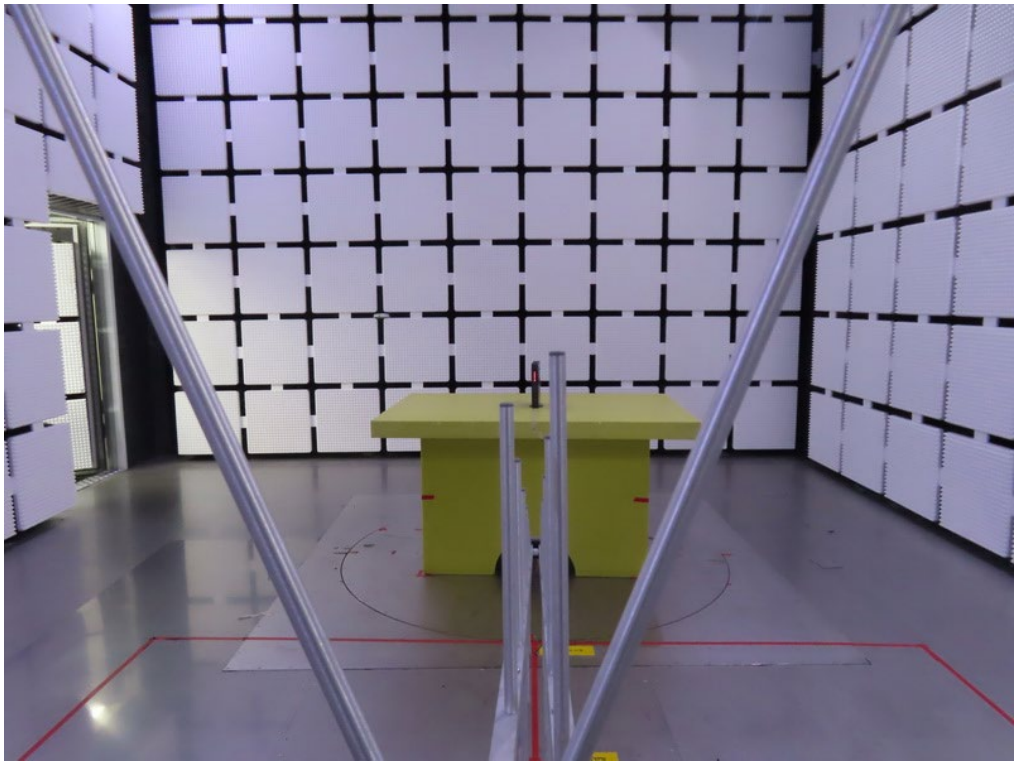
9 kHz to 30 MHz

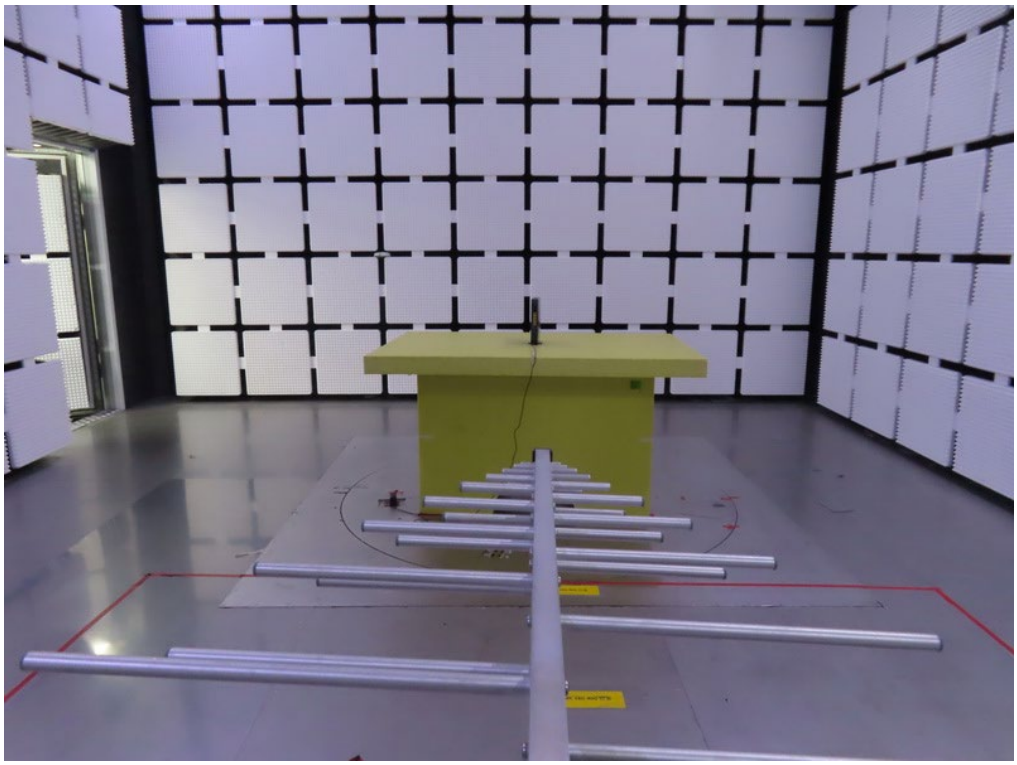




Radiated Emissions Test Photos

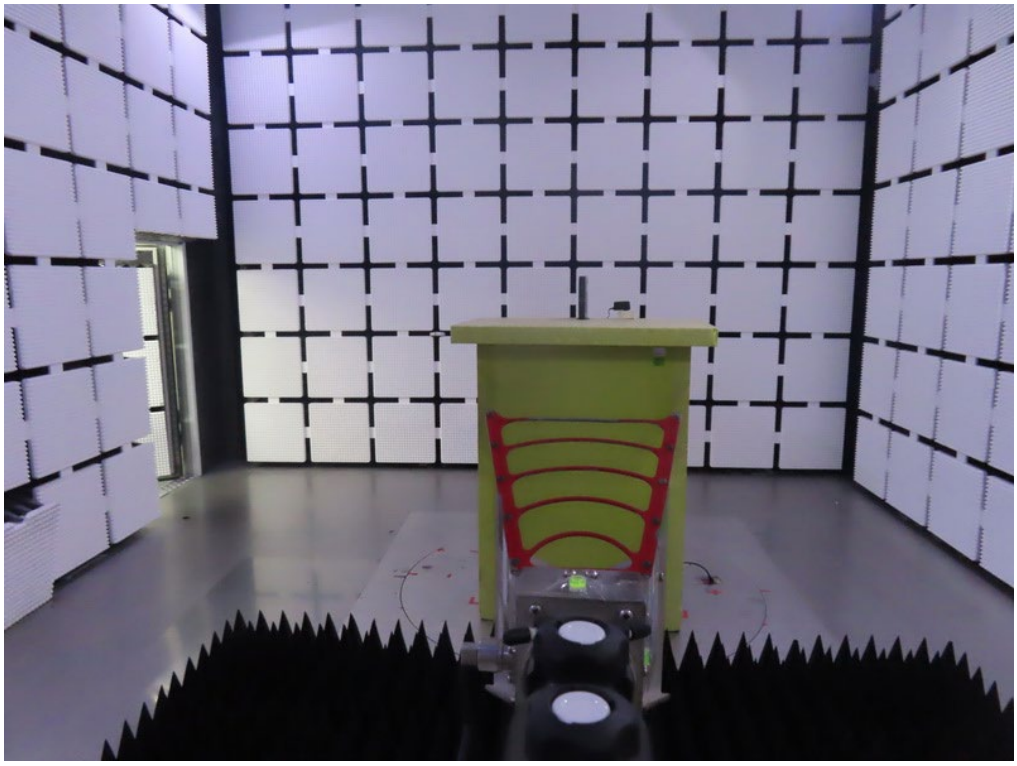
30 MHz to 1 GHz

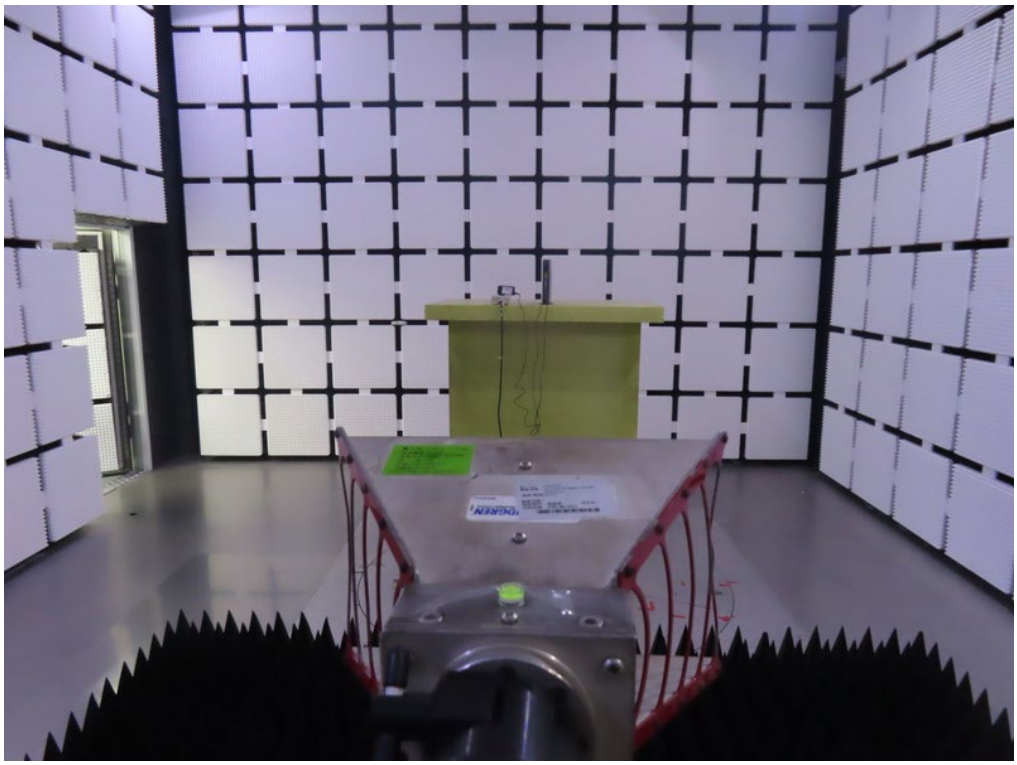




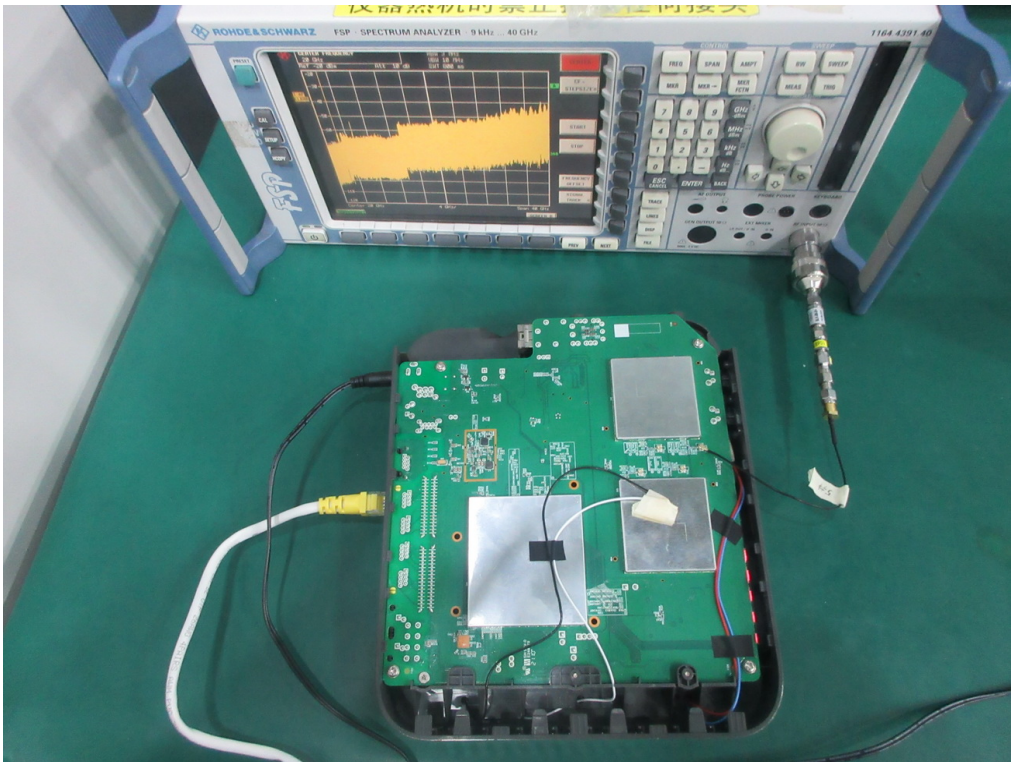
Radiated Emissions Test Photos

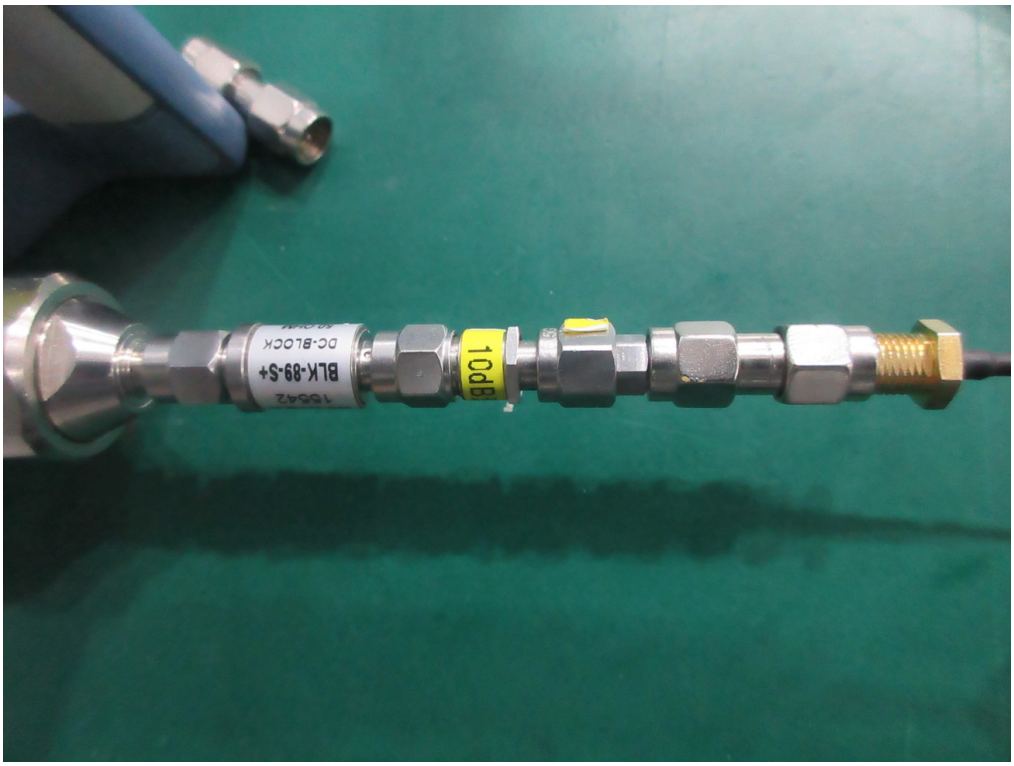
Above 1 GHz





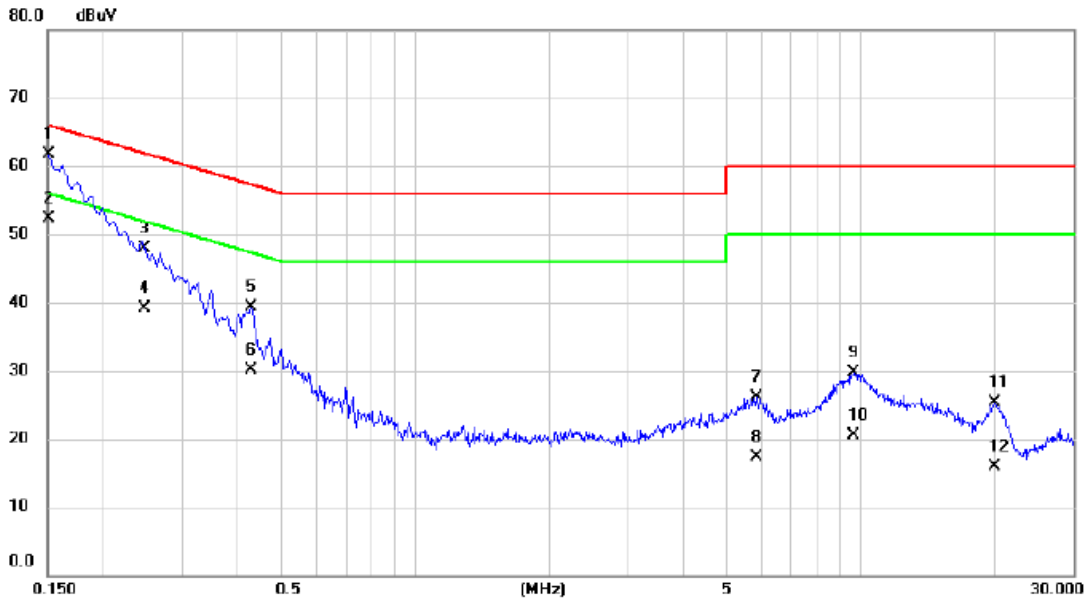
Conducted Test Photos





APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

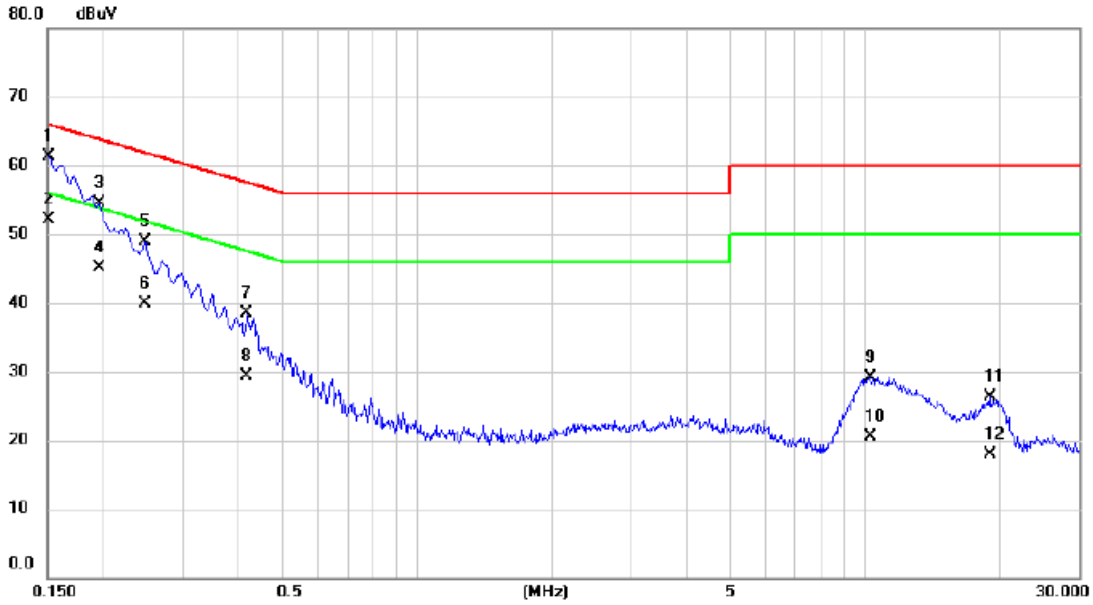
Test Mode	TX G Mode Channel 01	Phase	Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	51.96	9.68	61.64	66.00	-4.36	QP	
2	*	0.1500	42.60	9.68	52.28	56.00	-3.72	AVG	
3		0.2468	38.29	9.67	47.96	61.86	-13.90	QP	
4		0.2468	29.40	9.67	39.07	51.86	-12.79	AVG	
5		0.4290	29.54	9.69	39.23	57.27	-18.04	QP	
6		0.4290	20.50	9.69	30.19	47.27	-17.08	AVG	
7		5.8605	16.29	9.87	26.16	60.00	-33.84	QP	
8		5.8605	7.50	9.87	17.37	50.00	-32.63	AVG	
9		9.6878	19.73	9.98	29.71	60.00	-30.29	QP	
10		9.6878	10.60	9.98	20.58	50.00	-29.42	AVG	
11		19.9837	14.98	10.25	25.23	60.00	-34.77	QP	
12		19.9837	5.60	10.25	15.85	50.00	-34.15	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode Channel 01	Phase	Neutral

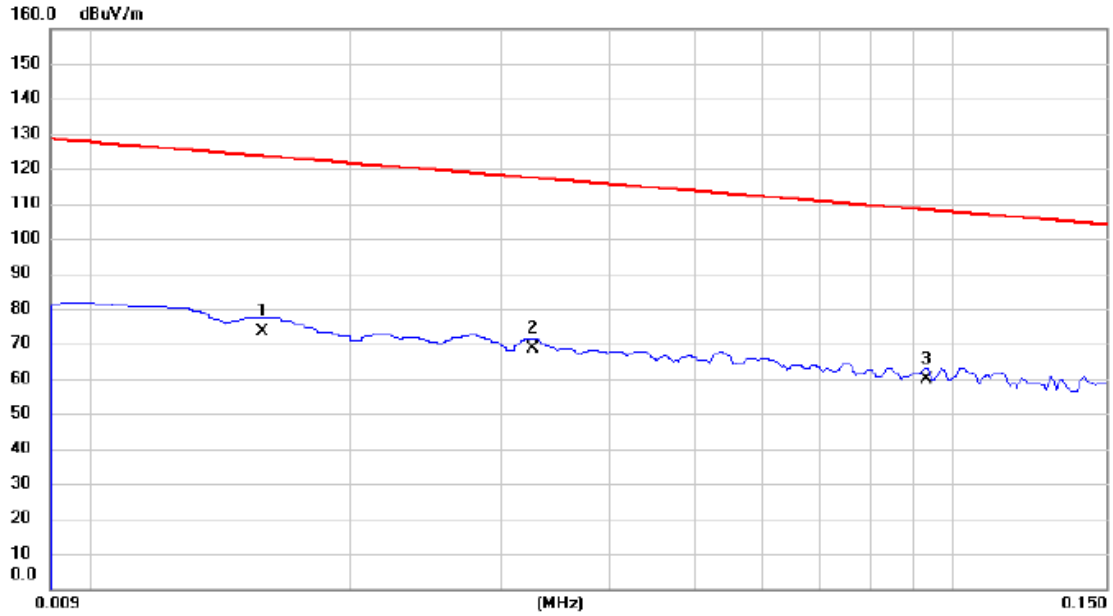


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	51.73	9.65	61.38	66.00	-4.62	QP	
2	*	0.1500	42.50	9.65	52.15	56.00	-3.85	AVG	
3		0.1950	44.84	9.65	54.49	63.82	-9.33	QP	
4		0.1950	35.40	9.65	45.05	53.82	-8.77	AVG	
5		0.2468	39.23	9.65	48.88	61.86	-12.98	QP	
6		0.2468	30.20	9.65	39.85	51.86	-12.01	AVG	
7		0.4177	28.83	9.65	38.48	57.49	-19.01	QP	
8		0.4177	19.60	9.65	29.25	47.49	-18.24	AVG	
9		10.3043	19.11	9.96	29.07	60.00	-30.93	QP	
10		10.3043	10.50	9.96	20.46	50.00	-29.54	AVG	
11		18.9915	16.04	10.21	26.25	60.00	-33.75	QP	
12		18.9915	7.60	10.21	17.81	50.00	-32.19	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

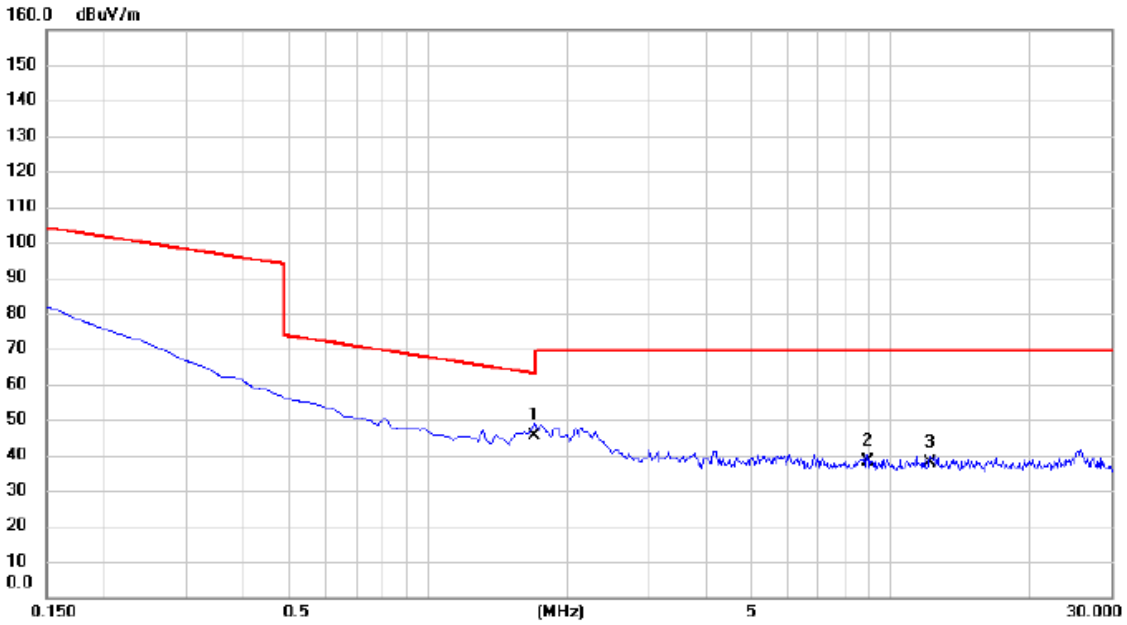
Test Mode	TX G Mode Channel 01	Polarization	Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0158	52.94	20.58	73.52	123.63	-50.11	AVG	
2		0.0325	48.62	19.80	68.42	117.37	-48.95	AVG	
3	*	0.0930	40.03	19.90	59.93	108.24	-48.31	QP	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

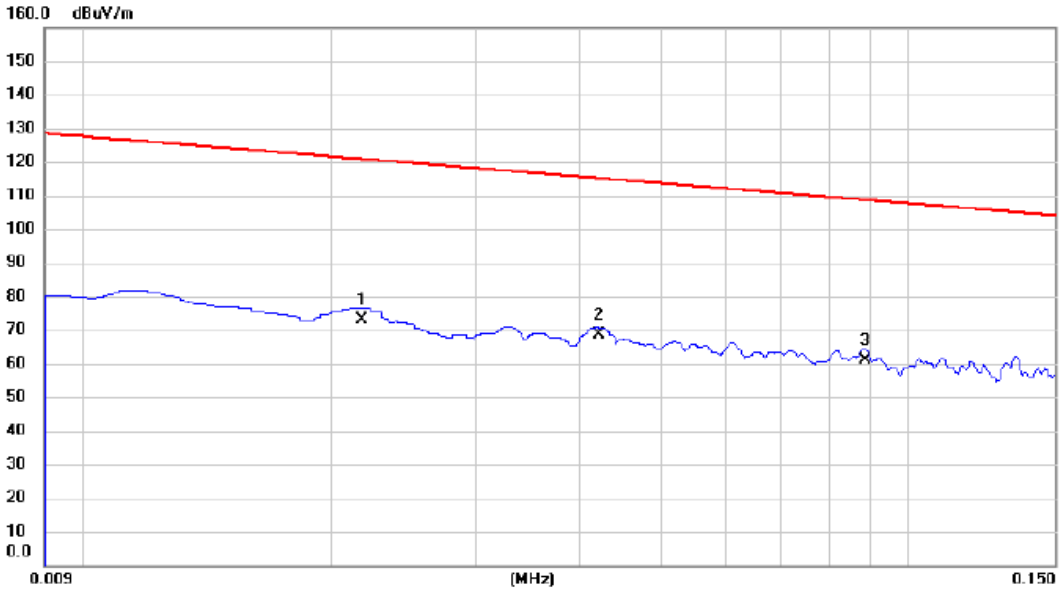
Test Mode	TX G Mode Channel 01	Polarization	Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	1.7020	25.62	19.95	45.57	62.99	-17.42	QP	
2		8.9408	17.85	20.45	38.30	69.54	-31.24	QP	
3		12.1945	17.26	20.56	37.82	69.54	-31.72	QP	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

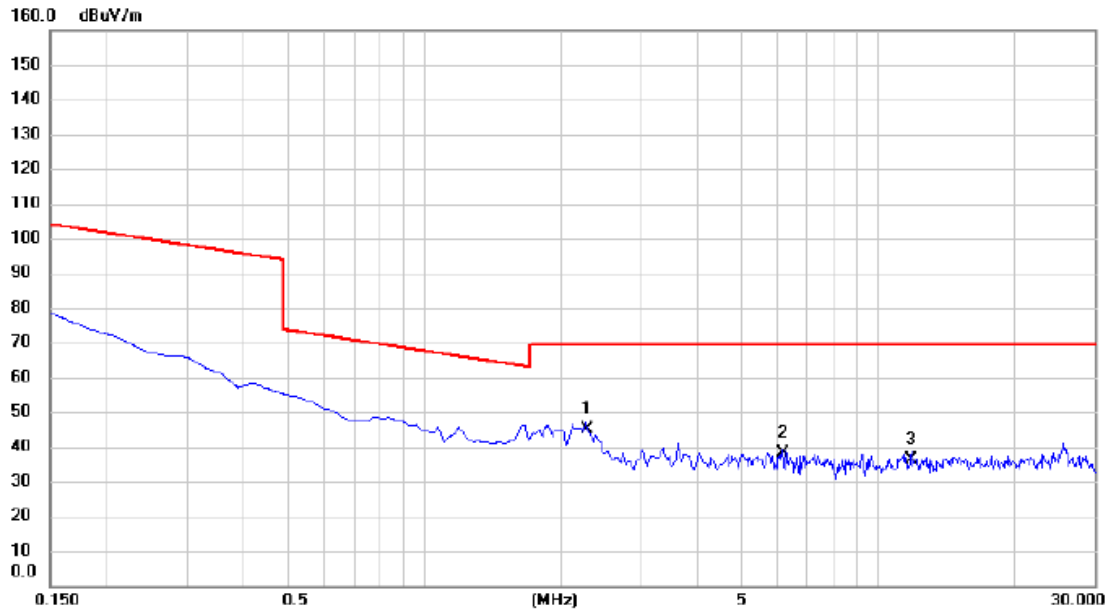
Test Mode	TX G Mode Channel 01	Polarization	Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0218	52.69	20.25	72.94	120.84	-47.90	AVG	
2	*	0.0421	48.94	19.80	68.74	115.12	-46.38	AVG	
3		0.0884	41.20	19.86	61.06	108.68	-47.62	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode Channel 01	Polarization	Ant 90°

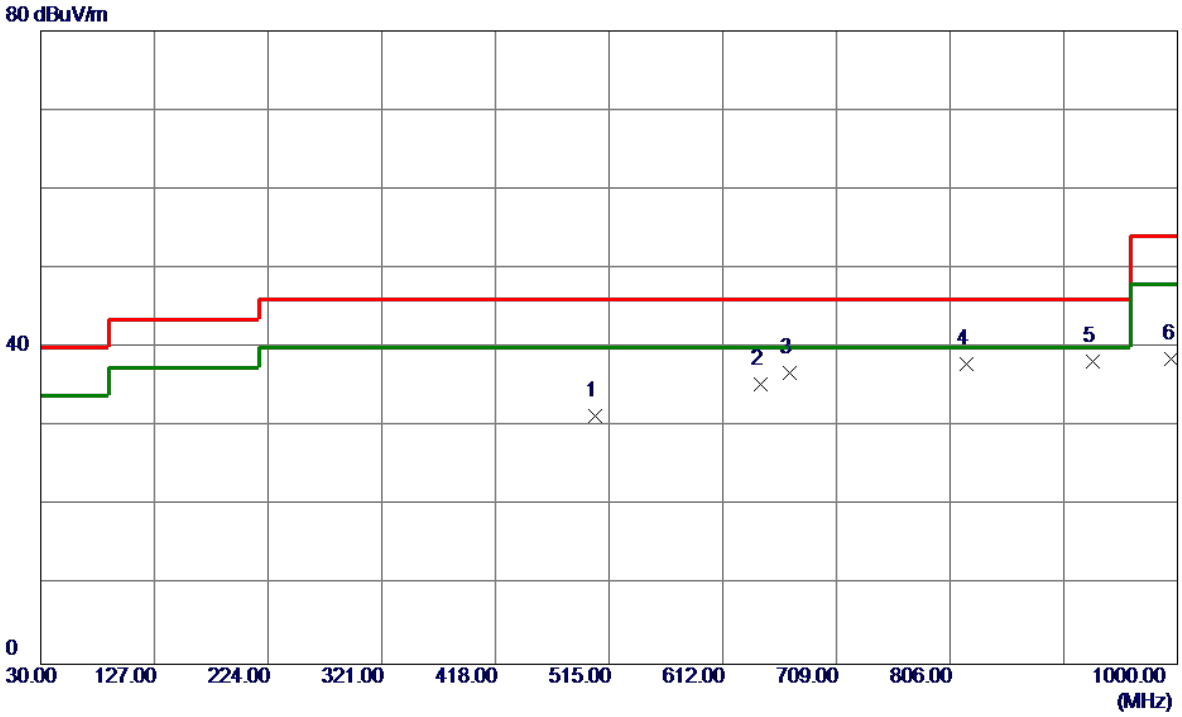


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2.2843	24.96	19.96	44.92	69.54	-24.62	QP	
2		6.1648	17.85	20.21	38.06	69.54	-31.48	QP	
3		11.8661	15.69	20.55	36.24	69.54	-33.30	QP	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

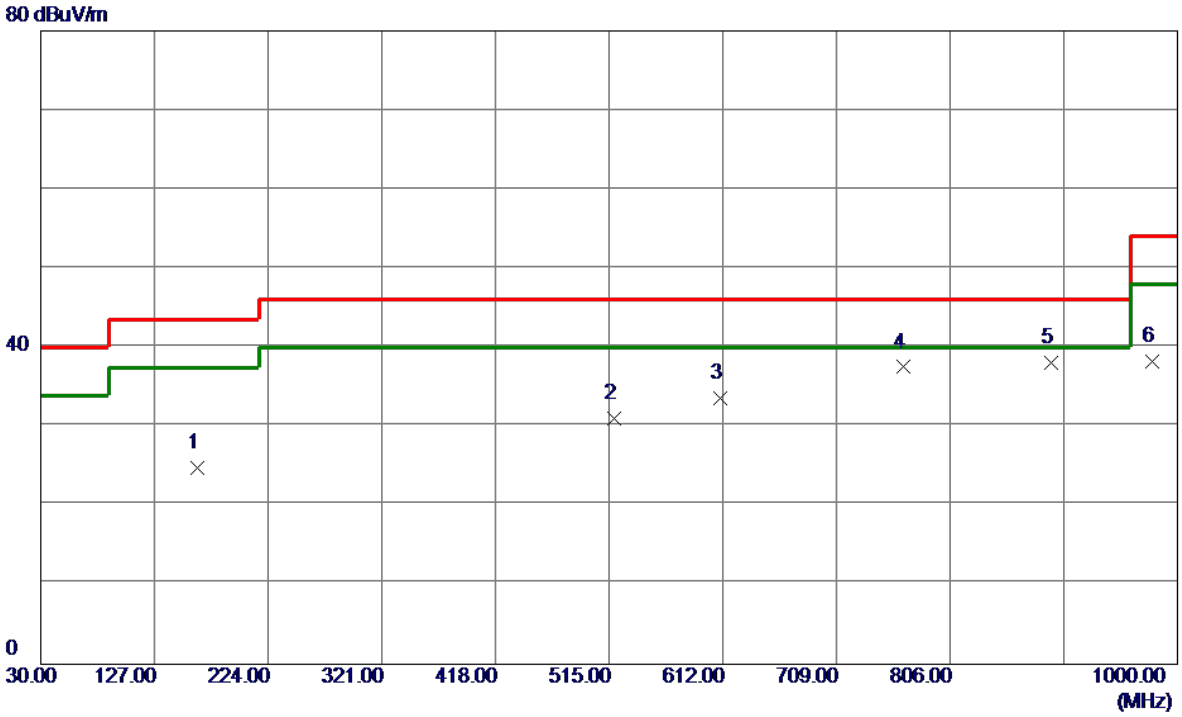
Test Mode	TX G Mode Channel 01	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	502.8750	37.33	-5.92	31.41	46.00	-14.59	Peak	
2	644.0100	38.69	-3.27	35.42	46.00	-10.58	Peak	
3	669.2300	39.67	-2.86	36.81	46.00	-9.19	Peak	
4	819.5800	38.52	-0.66	37.86	46.00	-8.14	Peak	
5 *	928.2200	38.20	0.10	38.30	46.00	-7.70	Peak	
6	995.1500	37.60	0.98	38.58	54.00	-15.42	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode Channel 01	Polarization	Horizontal

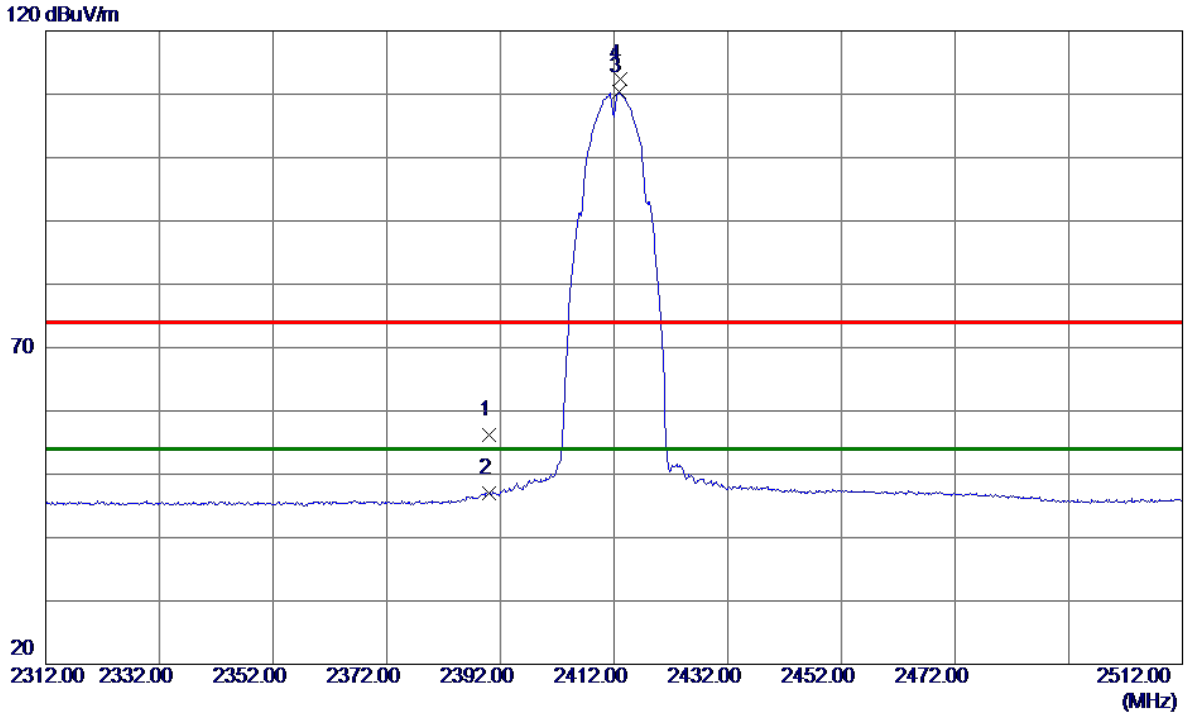


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	163.3750	35.69	-10.92	24.77	43.50	-18.73	Peak	
2	518.8800	36.70	-5.67	31.03	46.00	-14.97	Peak	
3	610.0600	37.04	-3.41	33.63	46.00	-12.37	Peak	
4	765.7450	38.98	-1.46	37.52	46.00	-8.48	Peak	
5 *	891.8450	38.20	-0.17	38.03	46.00	-7.97	Peak	
6	978.6600	37.57	0.73	38.30	54.00	-15.70	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

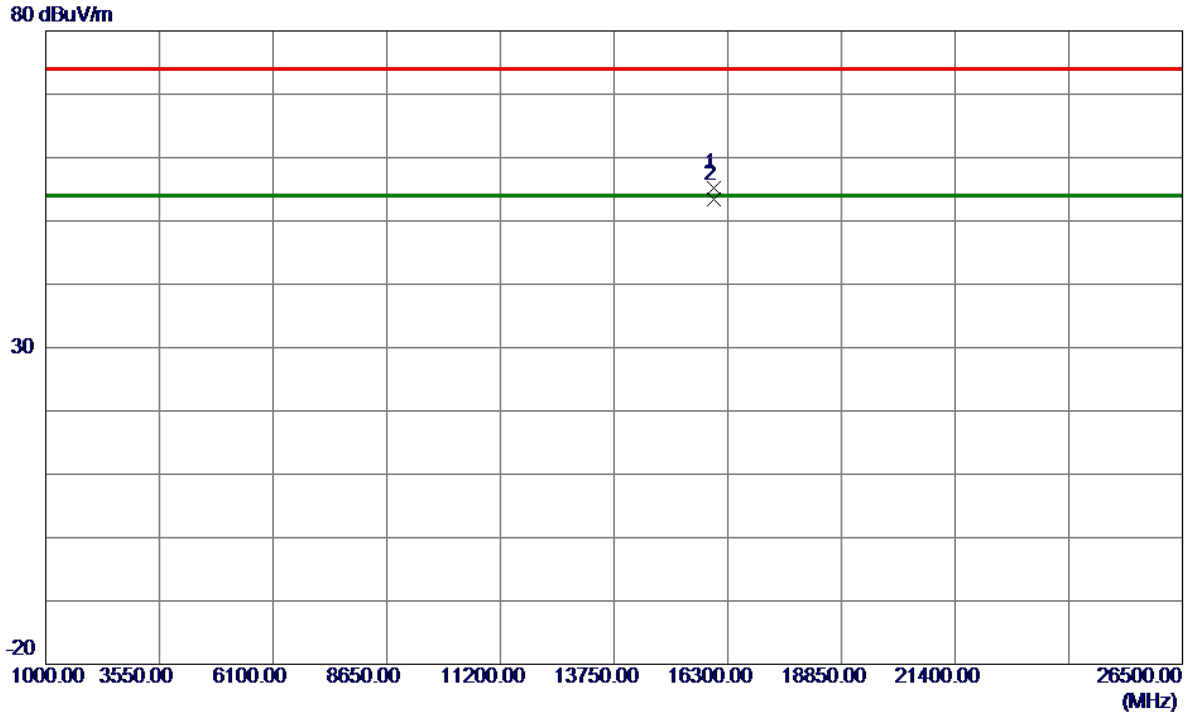
Test Mode	TX B Mode 2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	49.97	6.17	56.14	74.00	-17.86	Peak	
2	2390.0000	40.86	6.17	47.03	54.00	-6.97	AVG	
3 *	2412.8000	104.13	6.18	110.31	54.00	56.31	AVG	No Limit
4	2413.0000	106.30	6.18	112.48	74.00	38.48	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

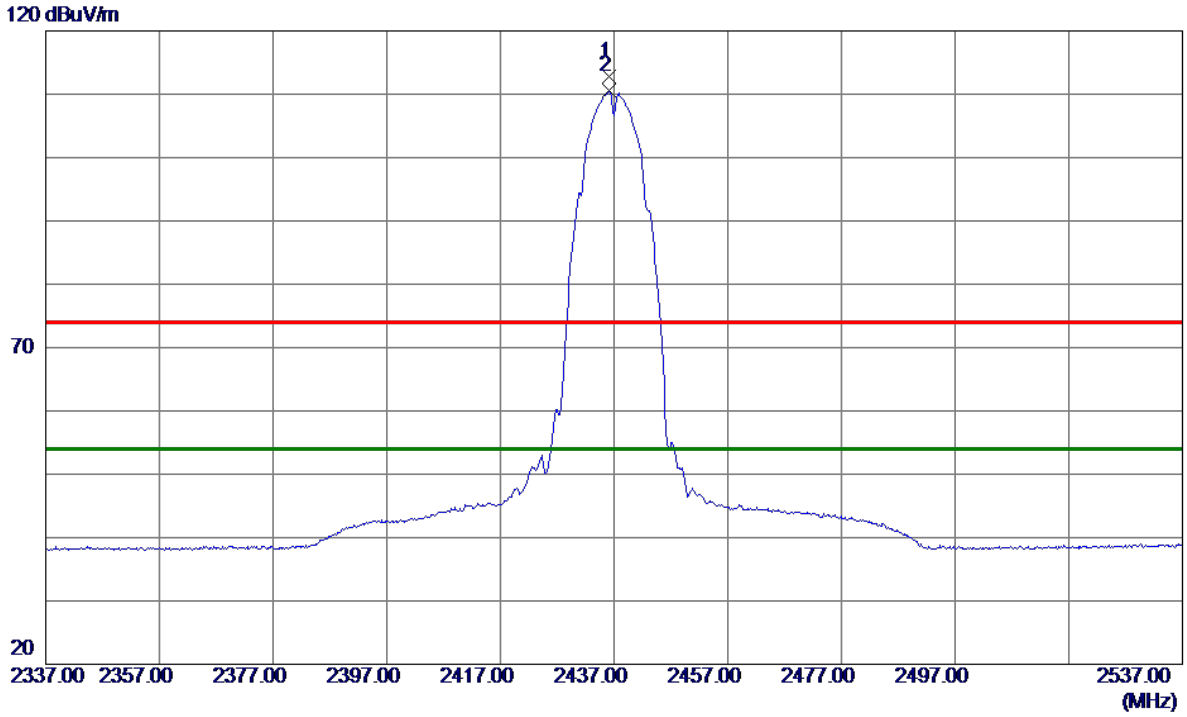
Test Mode	TX B Mode 2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15999.8750	49.22	5.99	55.21	74.00	-18.79	Peak	
2 *	16000.0000	47.39	5.99	53.38	54.00	-0.62	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

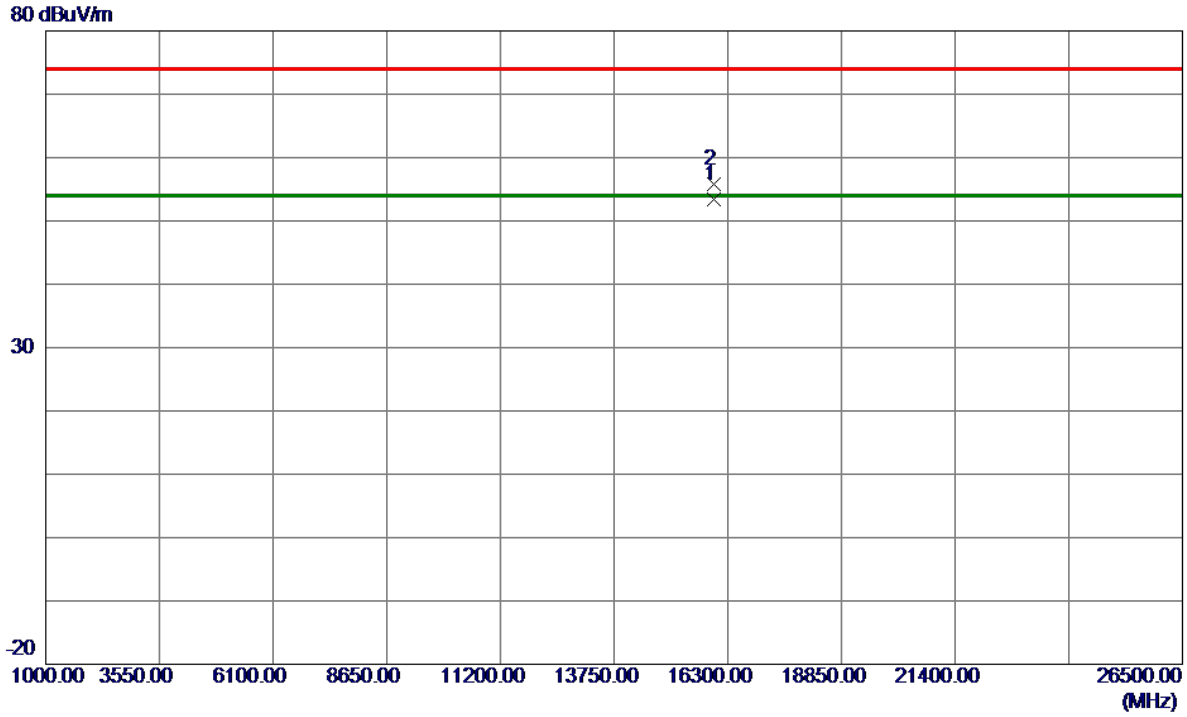
Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436.2000	106.60	6.20	112.80	74.00	38.80	Peak	No Limit
2 *	2436.2000	104.43	6.20	110.63	54.00	56.63	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

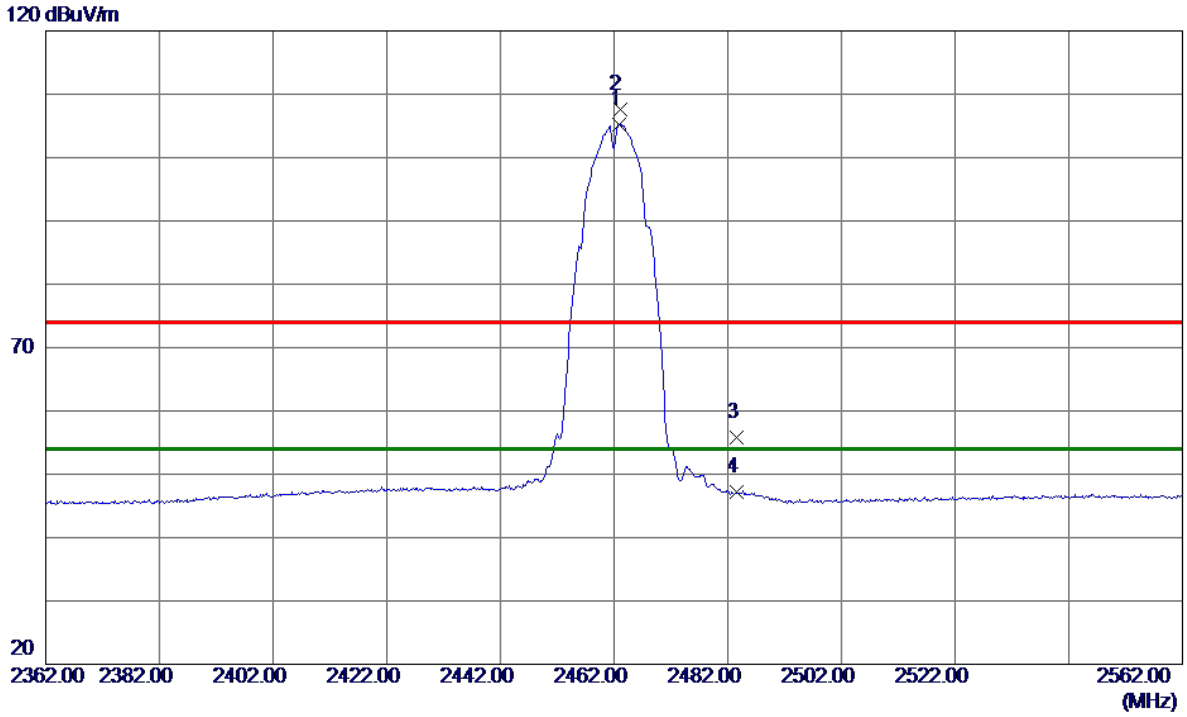
Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	16000.0000	47.47	5.99	53.46	54.00	-0.54	AVG	
2	16000.2500	49.75	5.99	55.74	74.00	-18.26	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

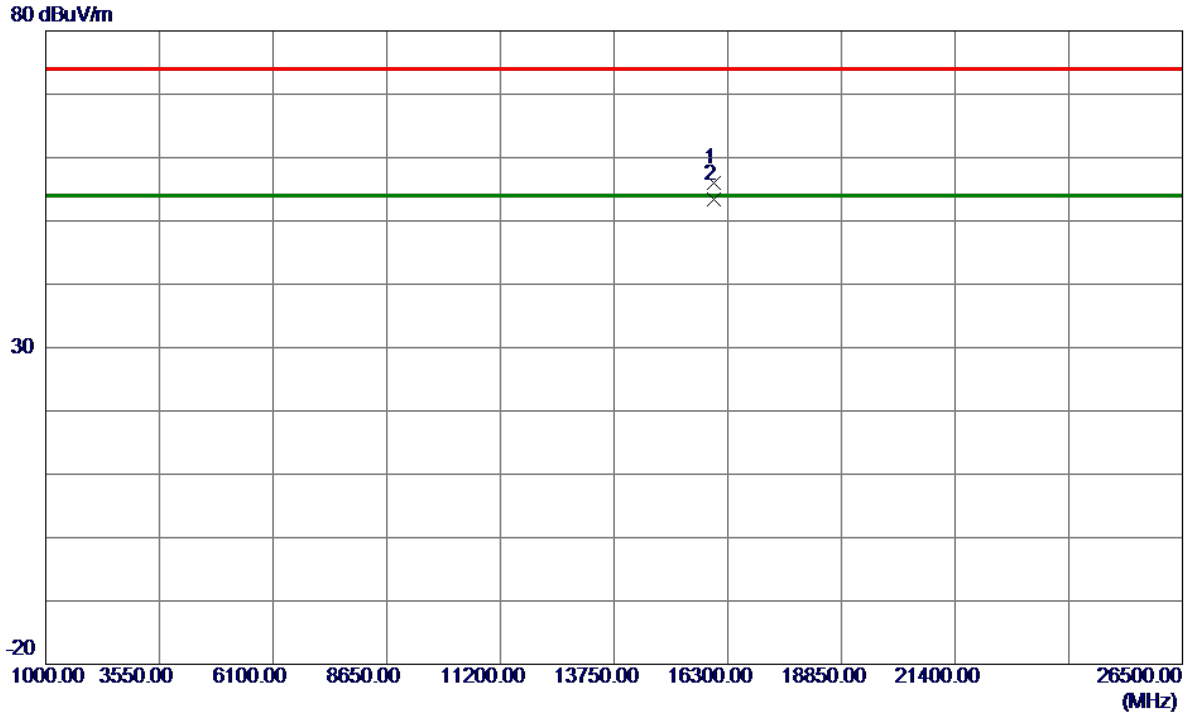
Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2462.9000	99.02	6.22	105.24	54.00	51.24	AVG	No Limit
2	2463.0000	101.34	6.22	107.56	74.00	33.56	Peak	No Limit
3	2483.5000	49.63	6.23	55.86	74.00	-18.14	Peak	
4	2483.5000	40.89	6.23	47.12	54.00	-6.88	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

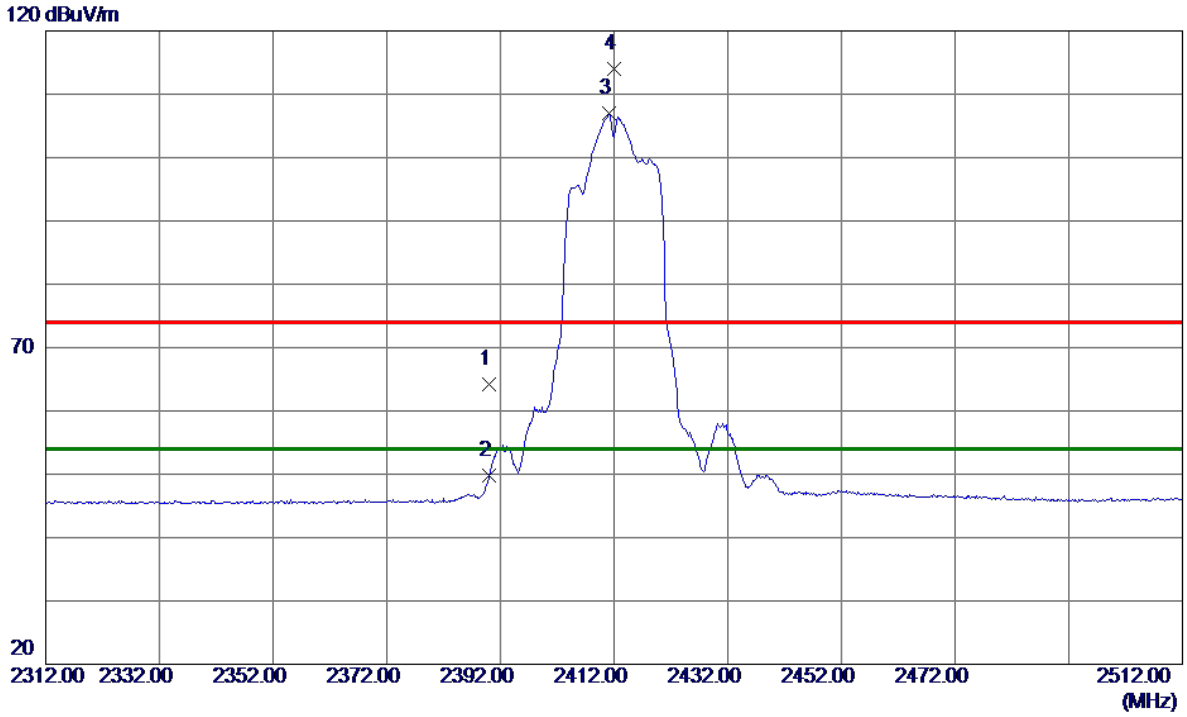
Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	16000.0250	49.99	5.99	55.98	74.00	-18.02	Peak	
2 *	16000.0750	47.49	5.99	53.48	54.00	-0.52	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

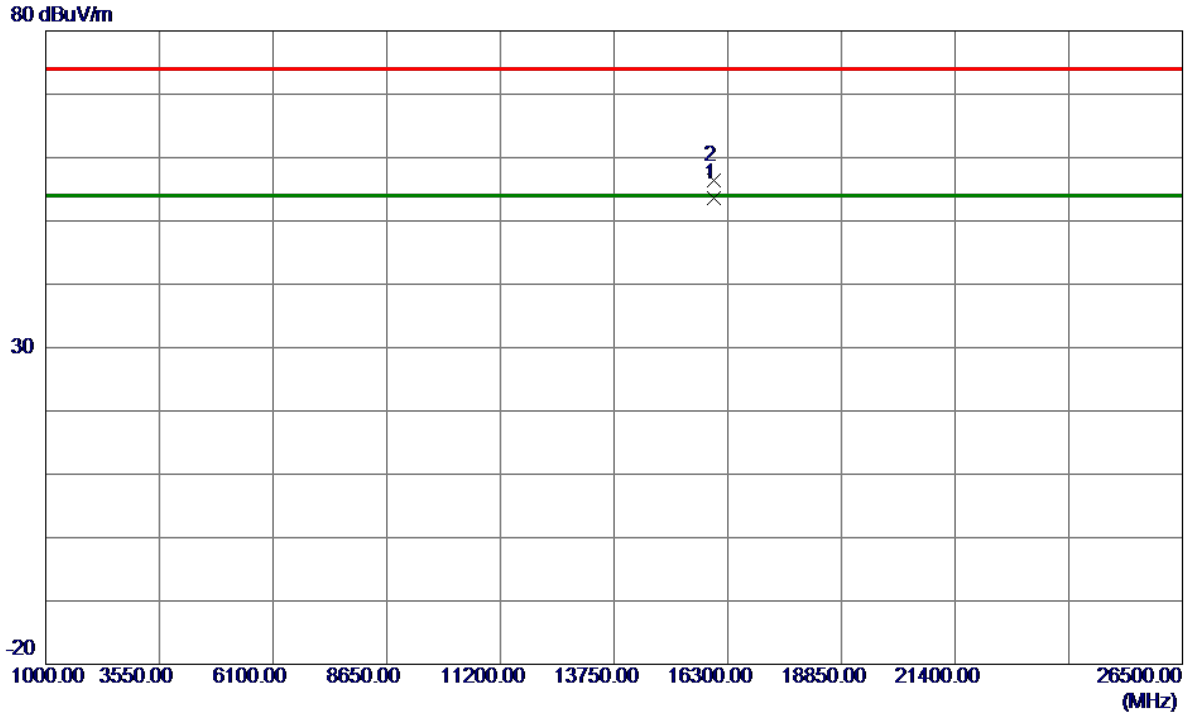
Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	58.09	6.17	64.26	74.00	-9.74	Peak	
2	2390.0000	43.58	6.17	49.75	54.00	-4.25	AVG	
3 *	2411.2000	100.83	6.18	107.01	54.00	53.01	AVG	No Limit
4	2411.9000	107.88	6.18	114.06	74.00	40.06	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

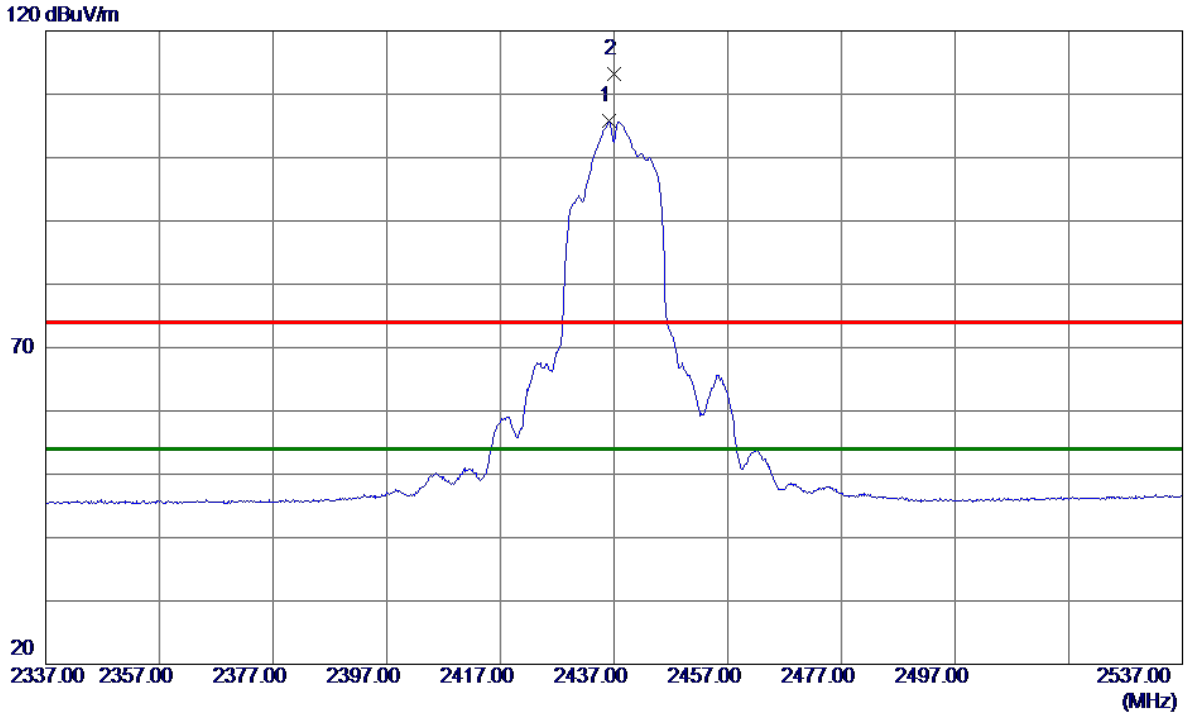
Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	16000.0250	47.60	5.99	53.59	54.00	-0.41	AVG	
2	16000.0500	50.42	5.99	56.41	74.00	-17.59	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

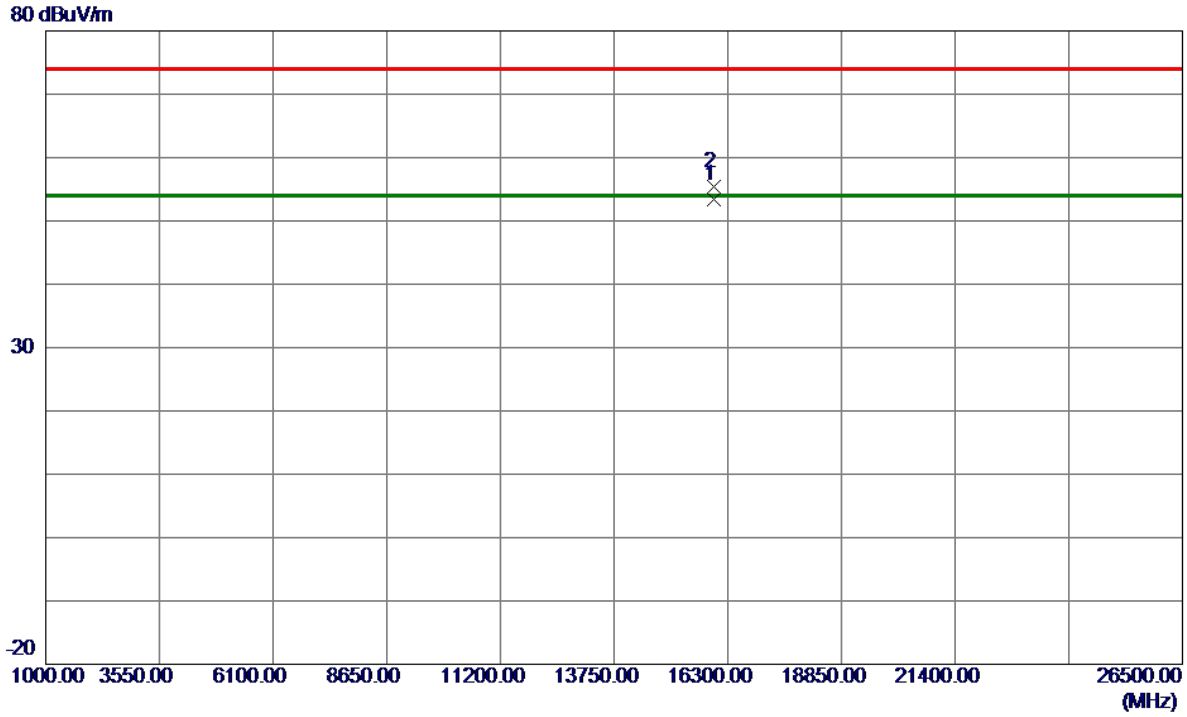
Test Mode	TX G Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2436.2000	99.68	6.20	105.88	54.00	51.88	AVG	No Limit
2	2436.9000	107.03	6.20	113.23	74.00	39.23	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

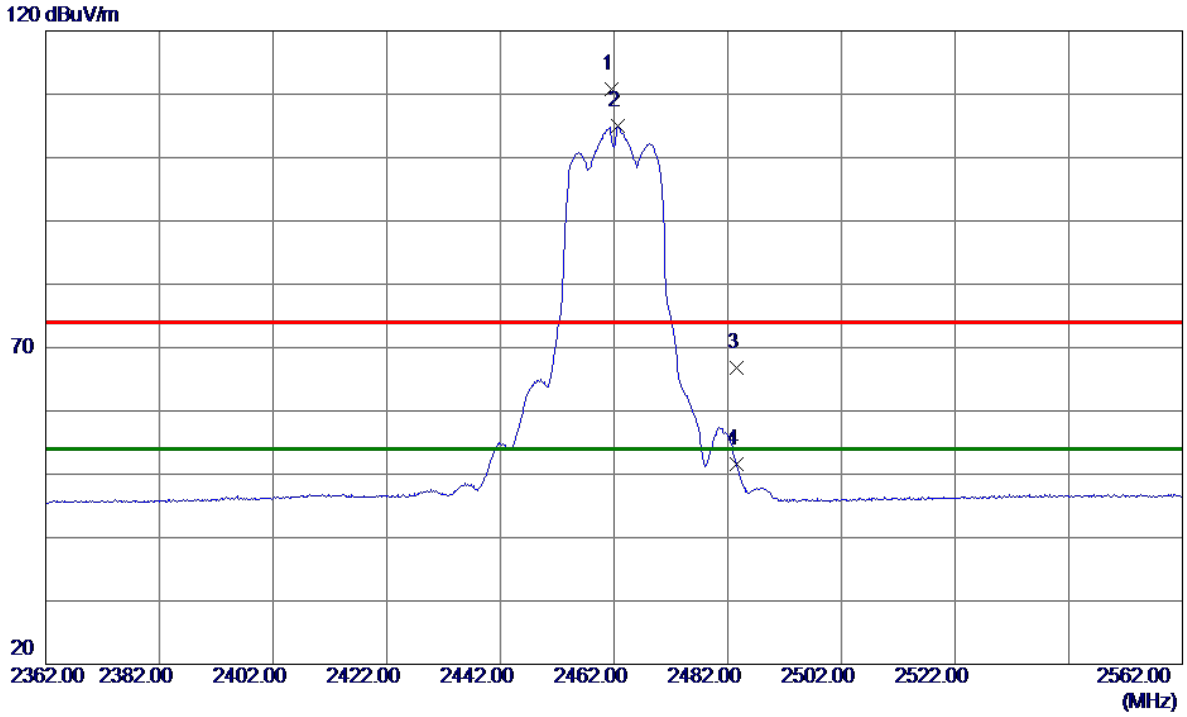
Test Mode	TX G Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	16000.0250	47.49	5.99	53.48	54.00	-0.52	AVG	
2	16000.1250	49.34	5.99	55.33	74.00	-18.67	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

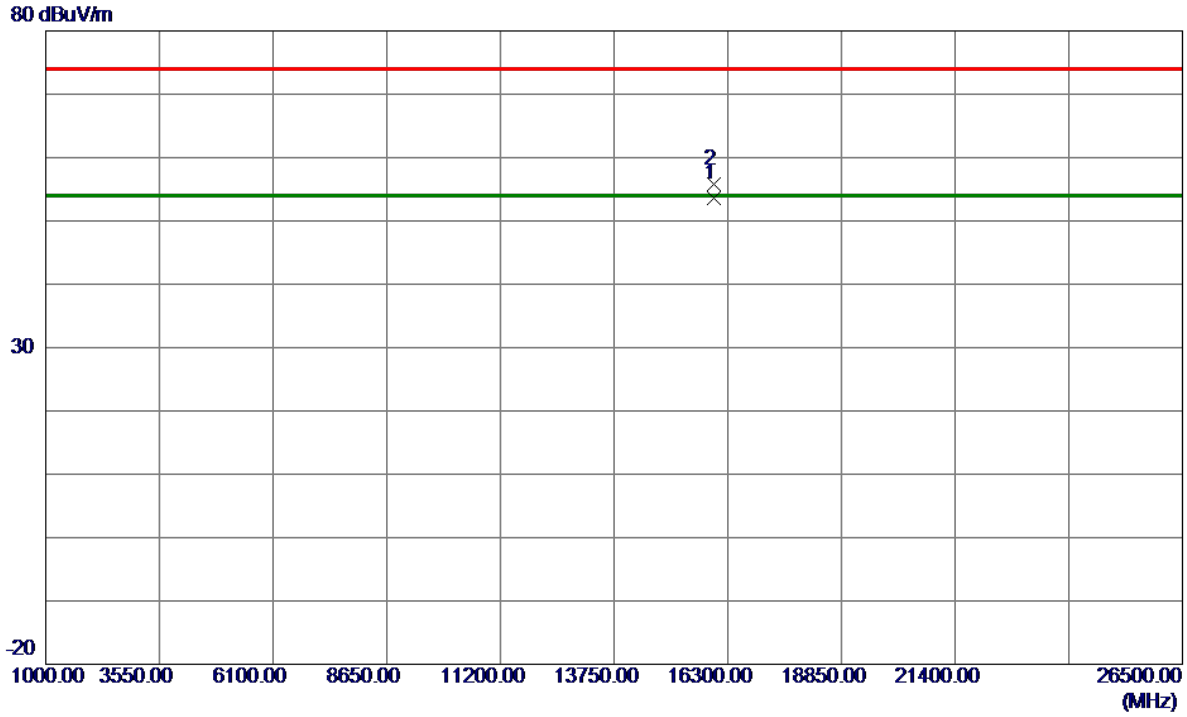
Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461.6000	104.68	6.21	110.89	74.00	36.89	Peak	No Limit
2 *	2462.7000	98.70	6.22	104.92	54.00	50.92	AVG	No Limit
3	2483.5000	60.50	6.23	66.73	74.00	-7.27	Peak	
4	2483.5000	45.29	6.23	51.52	54.00	-2.48	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

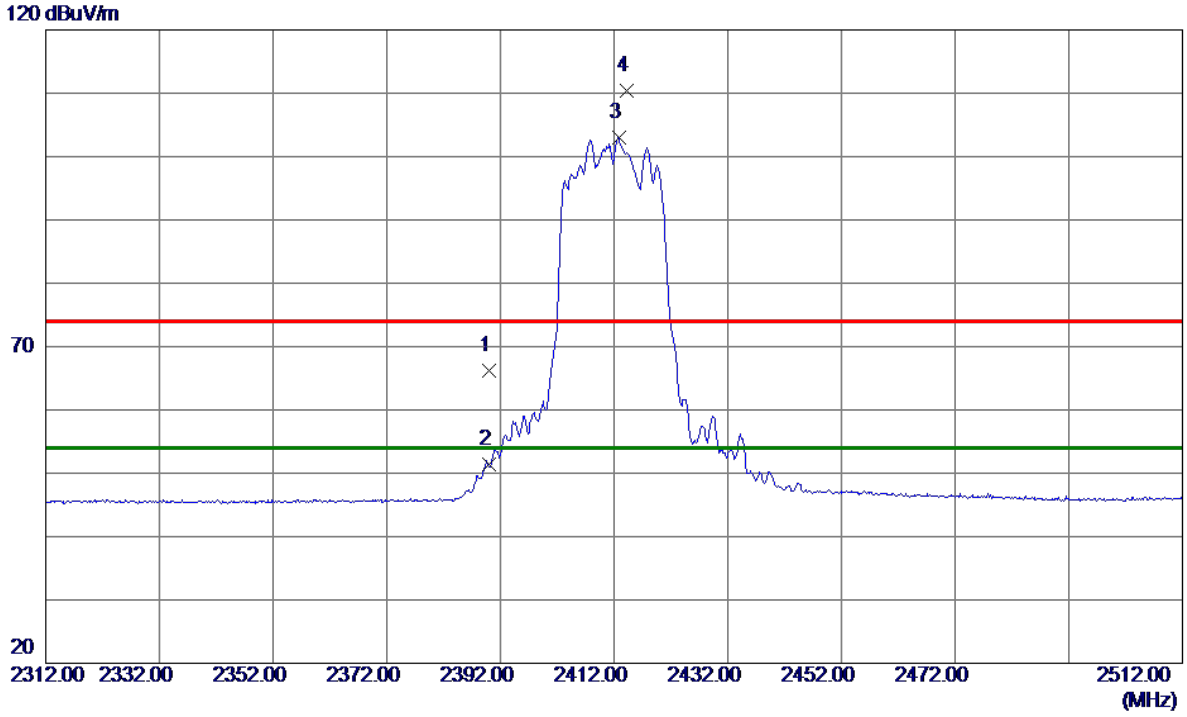
Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	16000.0250	47.66	5.99	53.65	54.00	-0.35	AVG	
2	16000.0750	49.75	5.99	55.74	74.00	-18.26	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

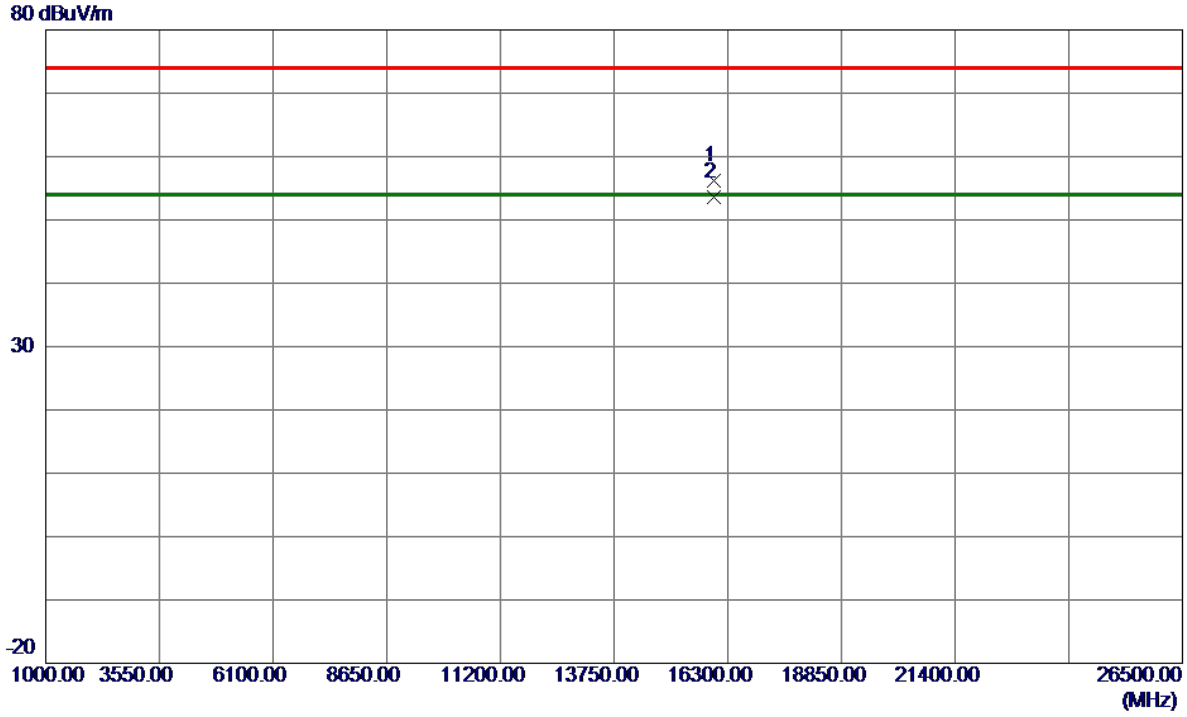
Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	60.07	6.17	66.24	74.00	-7.76	Peak	
2	2390.0000	45.14	6.17	51.31	54.00	-2.69	AVG	
3 *	2412.8000	96.89	6.18	103.07	54.00	49.07	AVG	No Limit
4	2414.3000	104.21	6.18	110.39	74.00	36.39	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

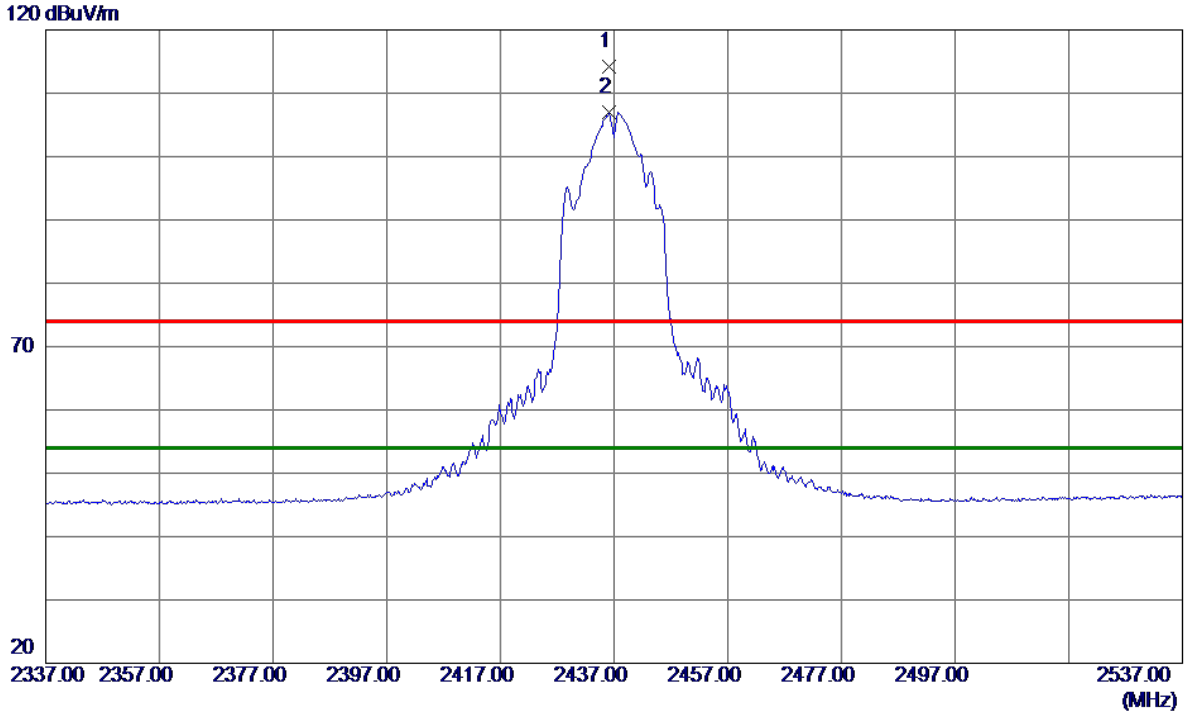
Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	16000.0750	50.17	5.99	56.16	74.00	-17.84	Peak	
2 *	16000.0750	47.53	5.99	53.52	54.00	-0.48	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

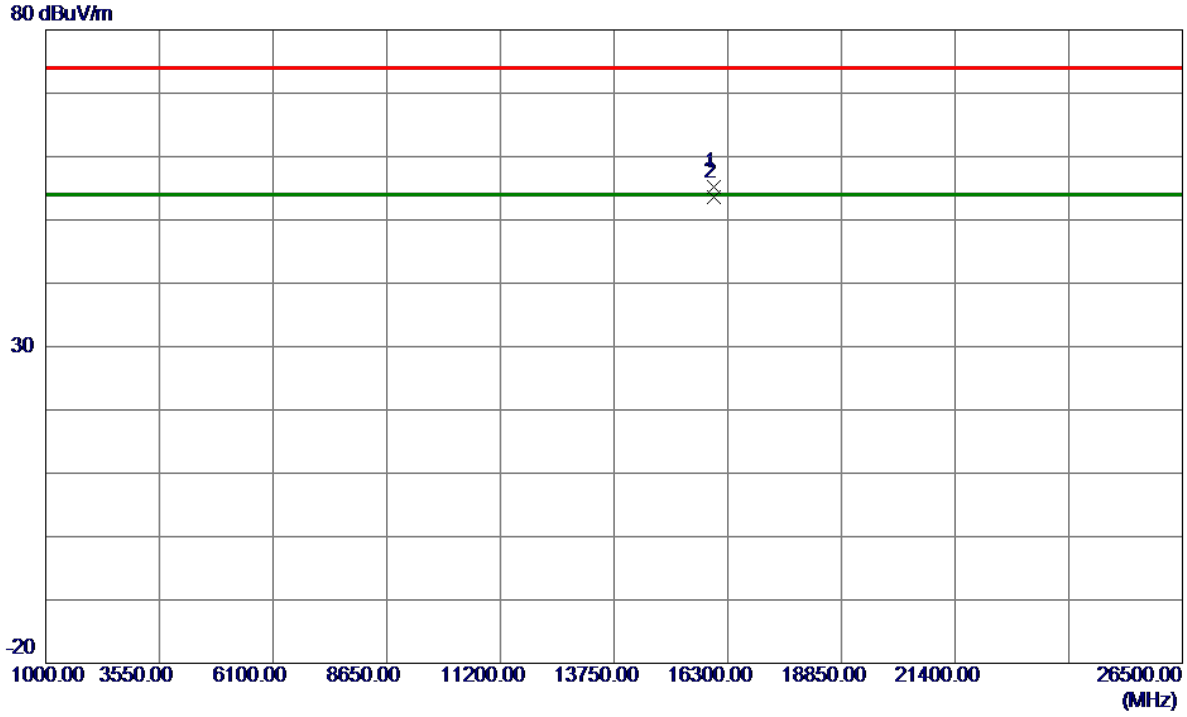
Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436.1000	107.99	6.20	114.19	74.00	40.19	Peak	No Limit
2 *	2436.2000	100.76	6.20	106.96	54.00	52.96	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

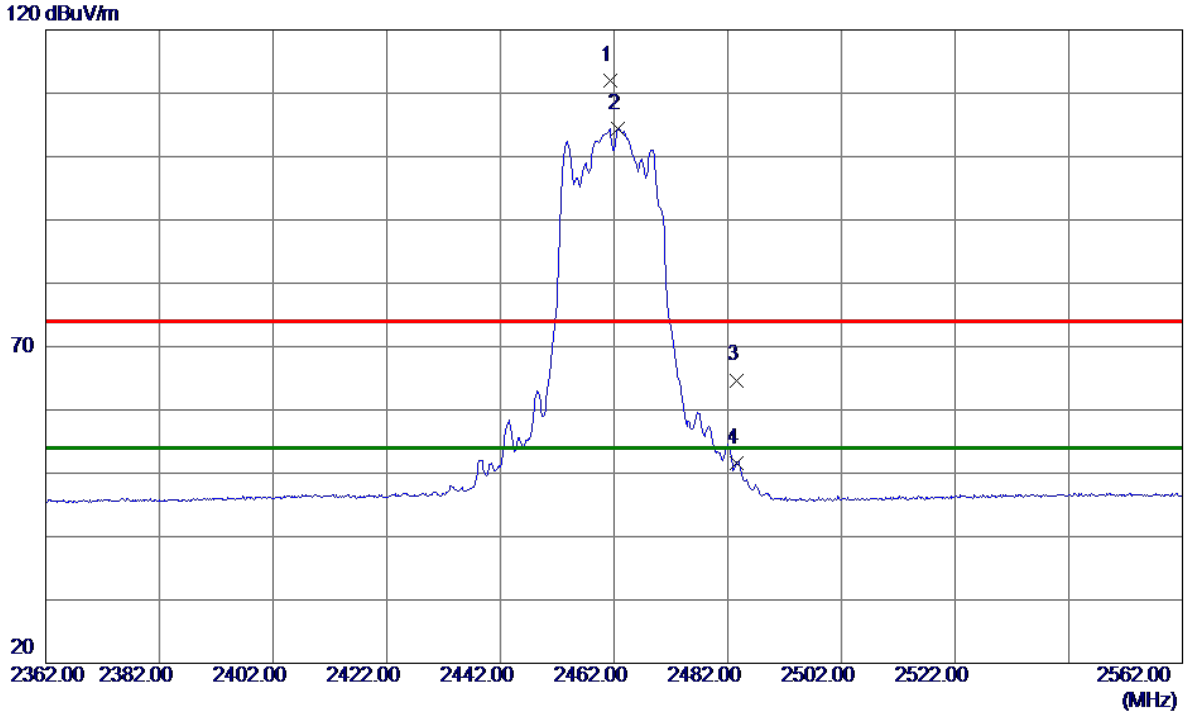
Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	16000.0000	49.27	5.99	55.26	74.00	-18.74	Peak	
2 *	16000.0250	47.52	5.99	53.51	54.00	-0.49	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

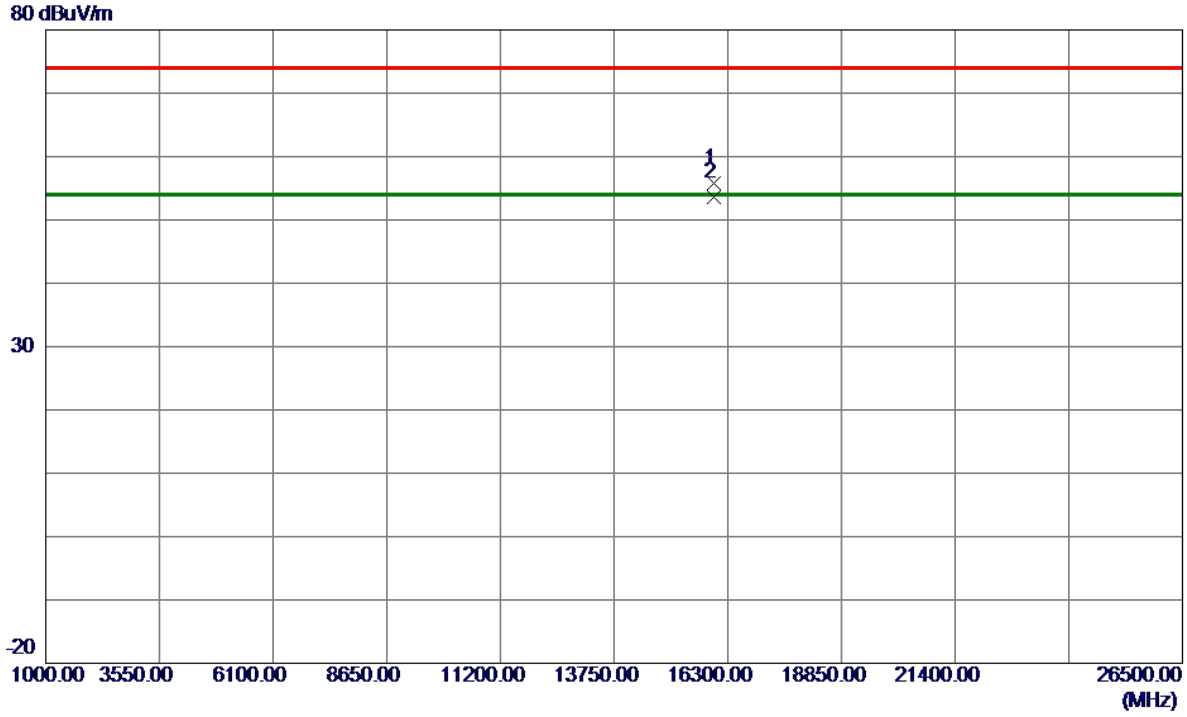
Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461.3000	105.73	6.21	111.94	74.00	37.94	Peak	No Limit
2 *	2462.7000	98.27	6.22	104.49	54.00	50.49	AVG	No Limit
3	2483.5000	58.47	6.23	64.70	74.00	-9.30	Peak	
4	2483.5000	45.45	6.23	51.68	54.00	-2.32	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

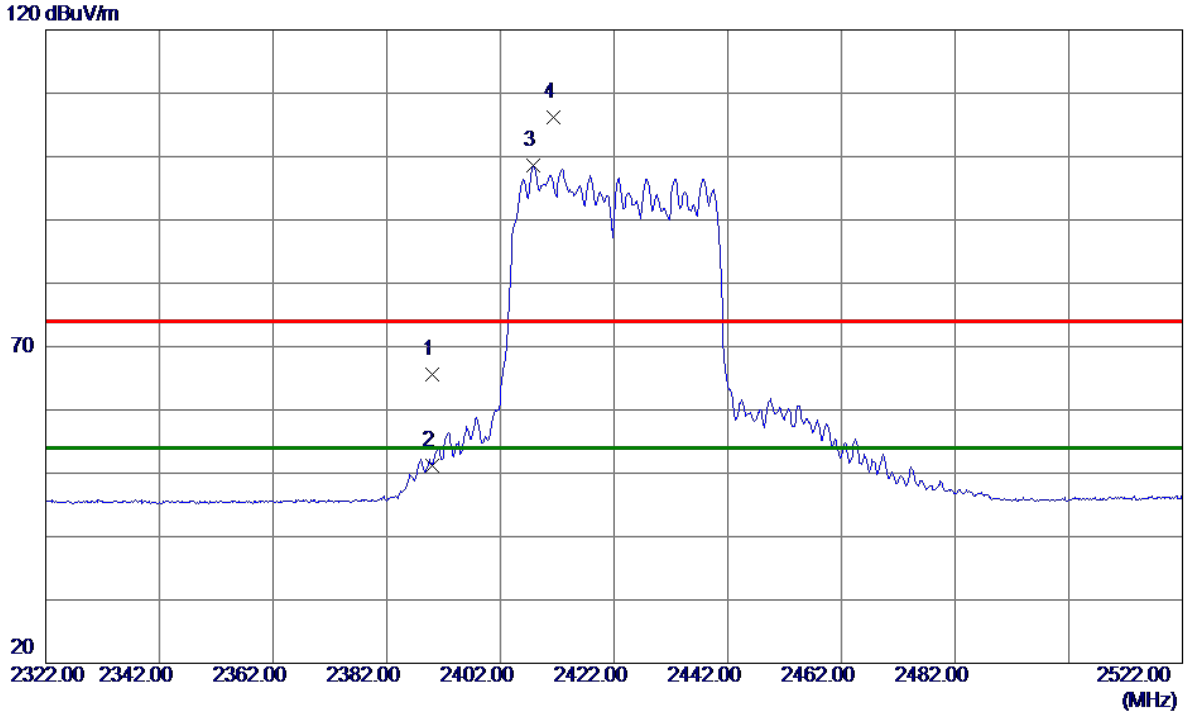
Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	16000.0500	49.84	5.99	55.83	74.00	-18.17	Peak	
2 *	16000.0500	47.53	5.99	53.52	54.00	-0.48	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

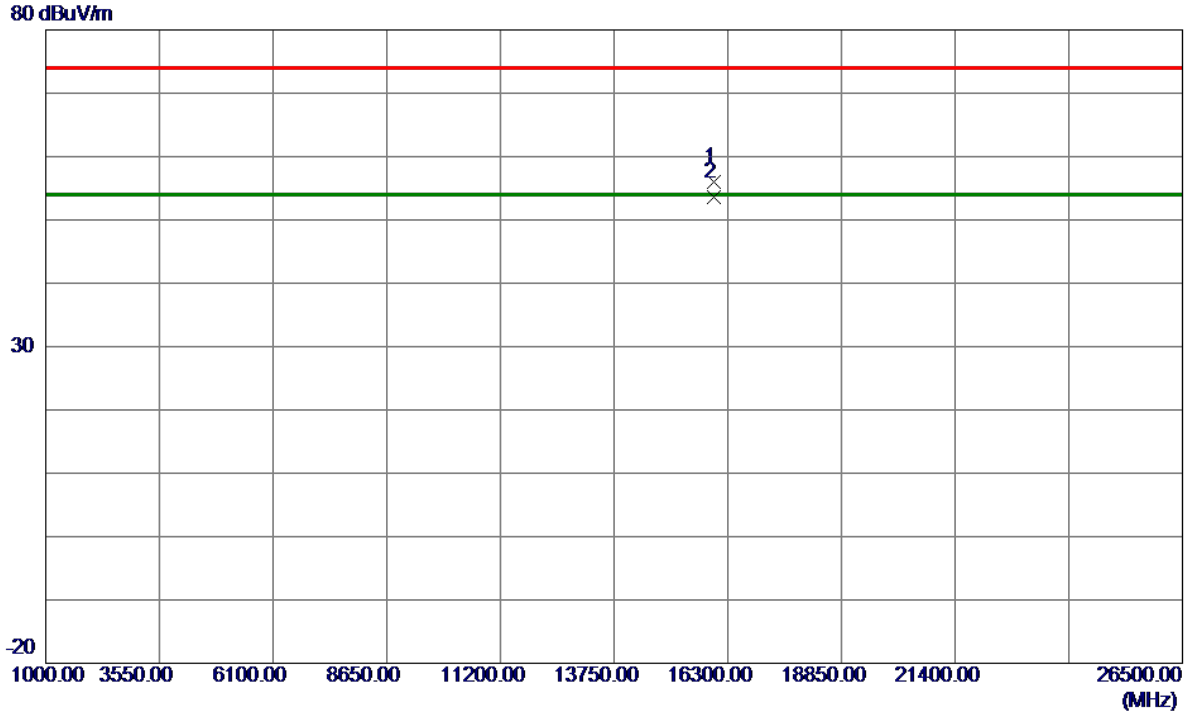
Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	59.43	6.17	65.60	74.00	-8.40	Peak	
2	2390.0000	45.09	6.17	51.26	54.00	-2.74	AVG	
3 *	2407.8000	92.40	6.18	98.58	54.00	44.58	AVG	No Limit
4	2411.3000	100.11	6.18	106.29	74.00	32.29	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

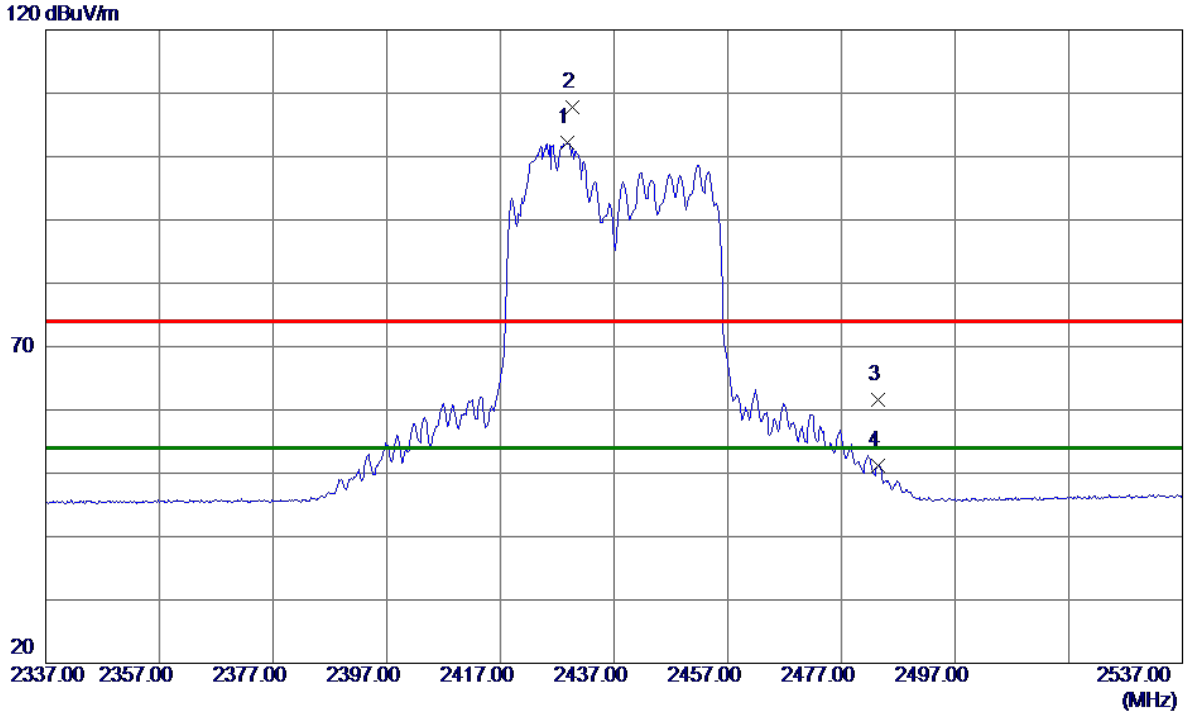
Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	16000.0250	50.00	5.99	55.99	74.00	-18.01	Peak	
2 *	16000.0250	47.60	5.99	53.59	54.00	-0.41	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

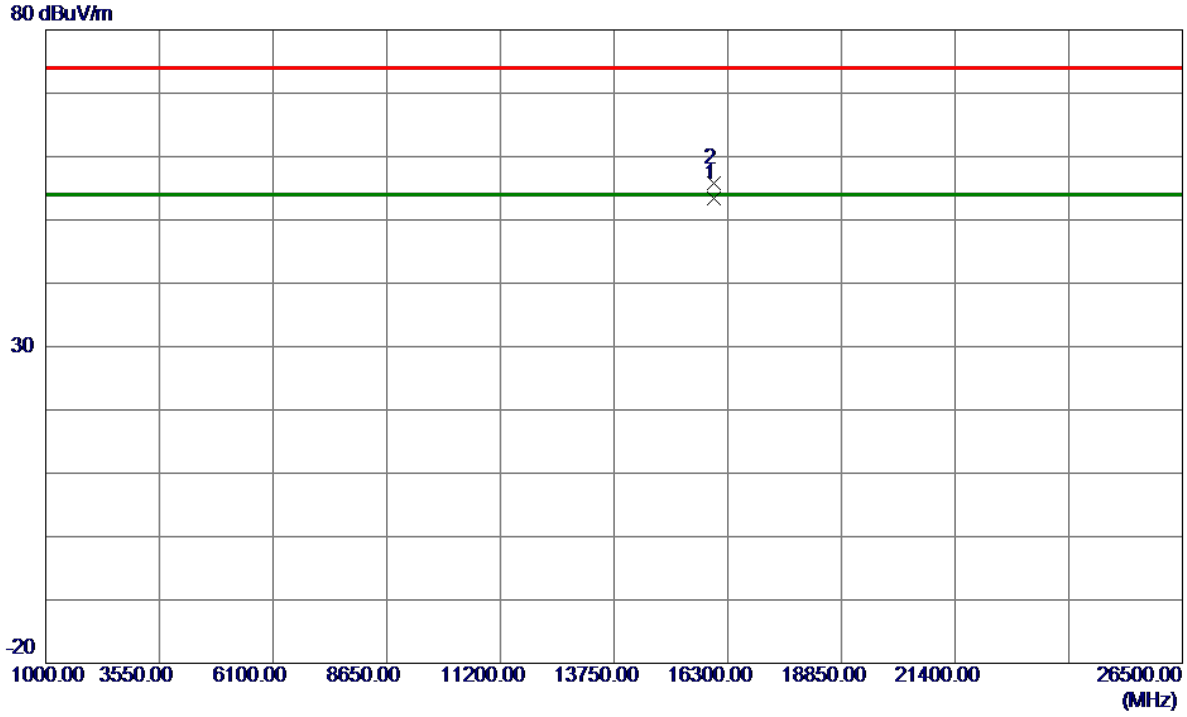
Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2428.7000	96.08	6.19	102.27	54.00	48.27	AVG	No Limit
2	2429.7000	101.60	6.19	107.79	74.00	33.79	Peak	No Limit
3	2483.5000	55.28	6.23	61.51	74.00	-12.49	Peak	
4	2483.5000	44.89	6.23	51.12	54.00	-2.88	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

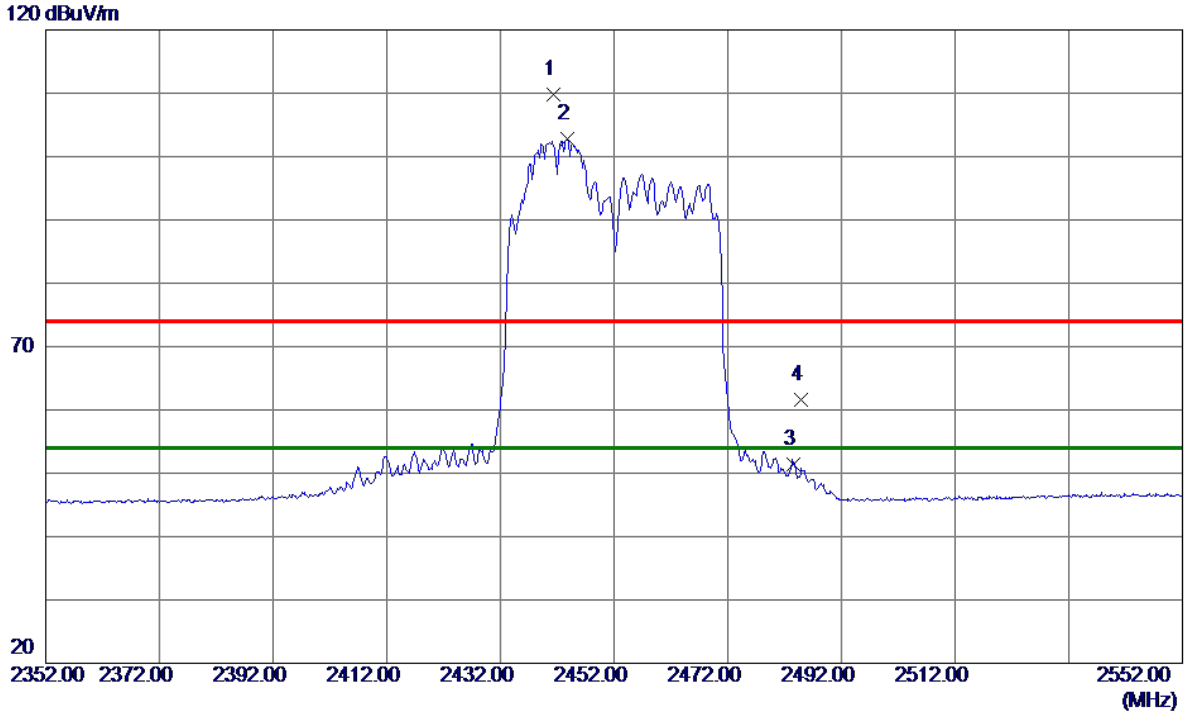
Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	16000.0250	47.47	5.99	53.46	54.00	-0.54	AVG	
2	16000.0500	49.89	5.99	55.88	74.00	-18.12	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

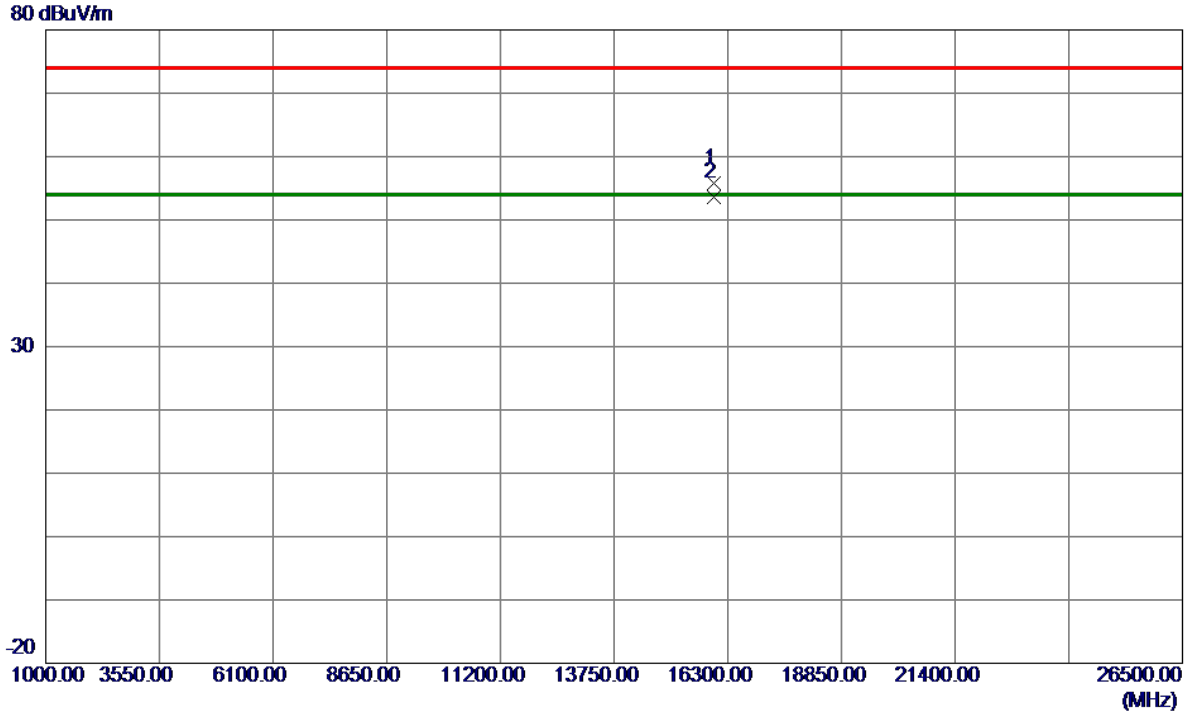
Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2441.4000	103.64	6.20	109.84	74.00	35.84	Peak	No Limit
2 *	2443.7000	96.61	6.20	102.81	54.00	48.81	AVG	No Limit
3	2483.5000	45.23	6.23	51.46	54.00	-2.54	AVG	
4	2484.8000	55.29	6.23	61.52	74.00	-12.48	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

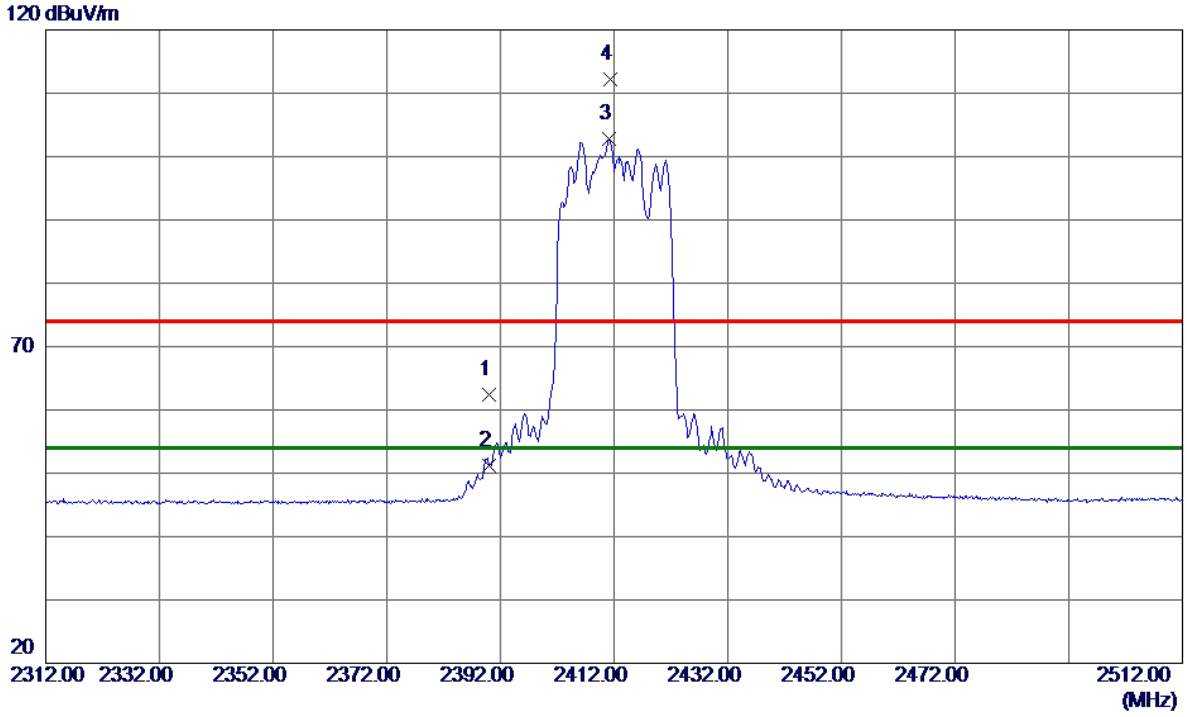
Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15999.9750	49.81	5.99	55.80	74.00	-18.20	Peak	
2 *	16000.0250	47.54	5.99	53.53	54.00	-0.47	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

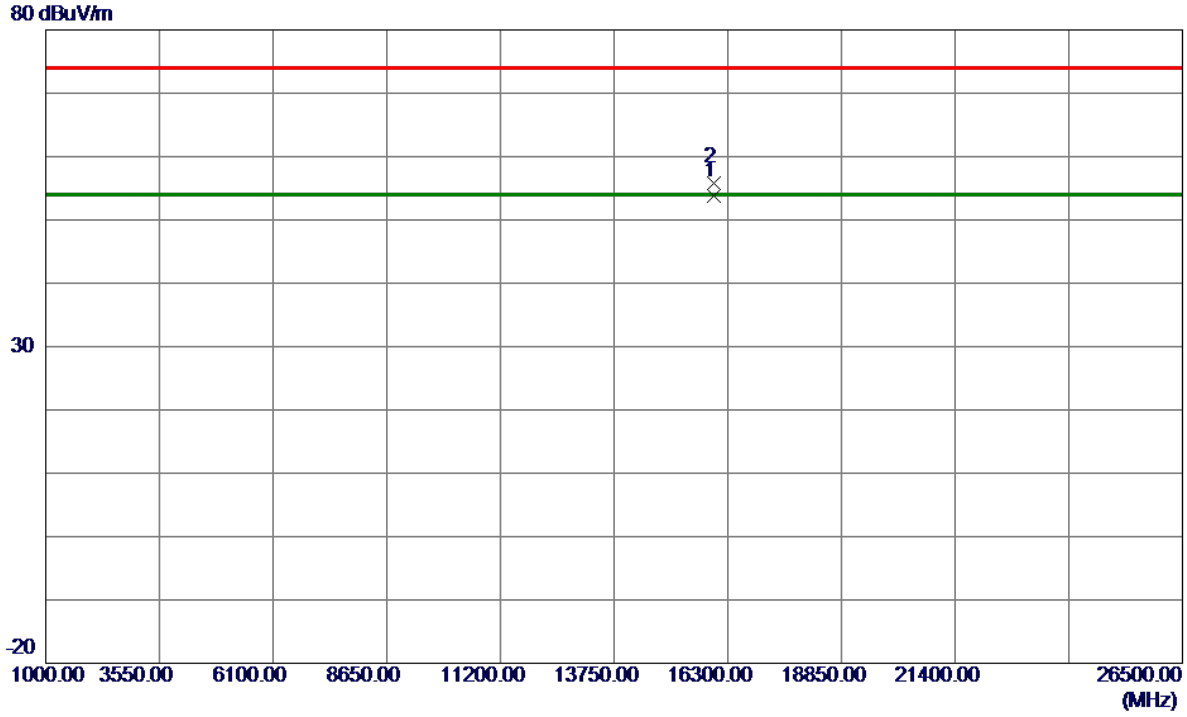
Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	56.16	6.17	62.33	74.00	-11.67	Peak	
2	2390.0000	45.04	6.17	51.21	54.00	-2.79	AVG	
3 *	2411.1000	96.57	6.18	102.75	54.00	48.75	AVG	No Limit
4	2411.3000	106.03	6.18	112.21	74.00	38.21	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

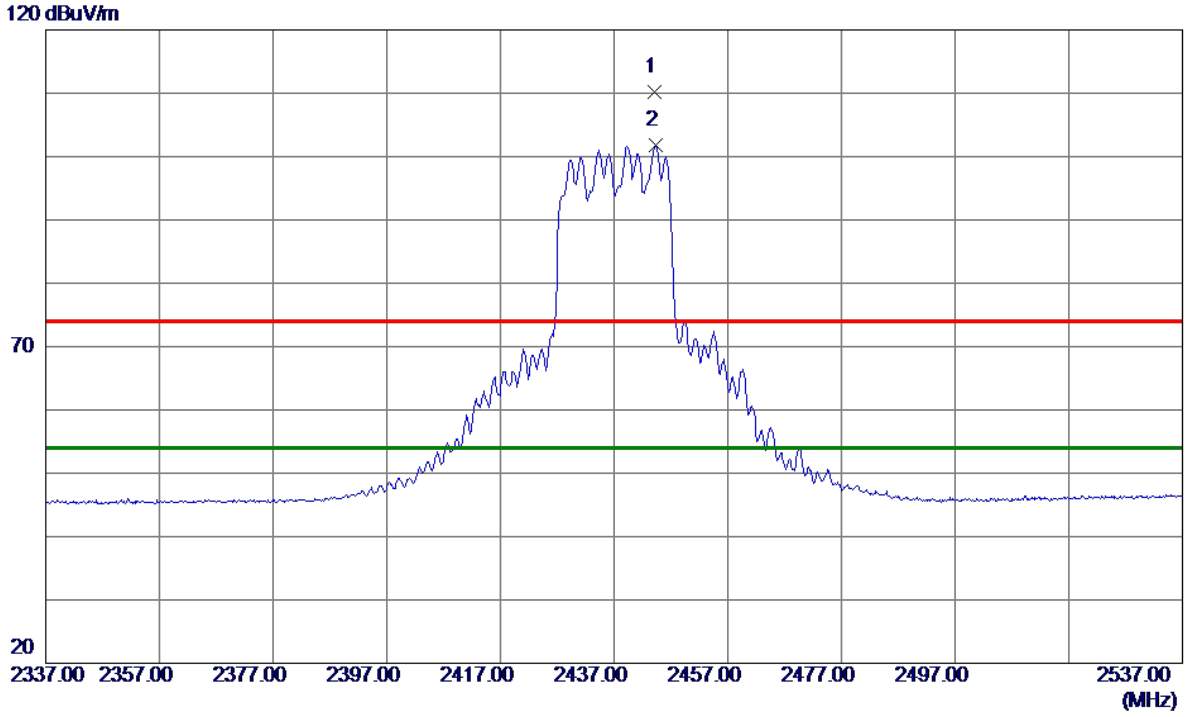
Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	16000.0250	47.77	5.99	53.76	54.00	-0.24	AVG	
2	16000.1500	49.91	5.99	55.90	74.00	-18.10	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

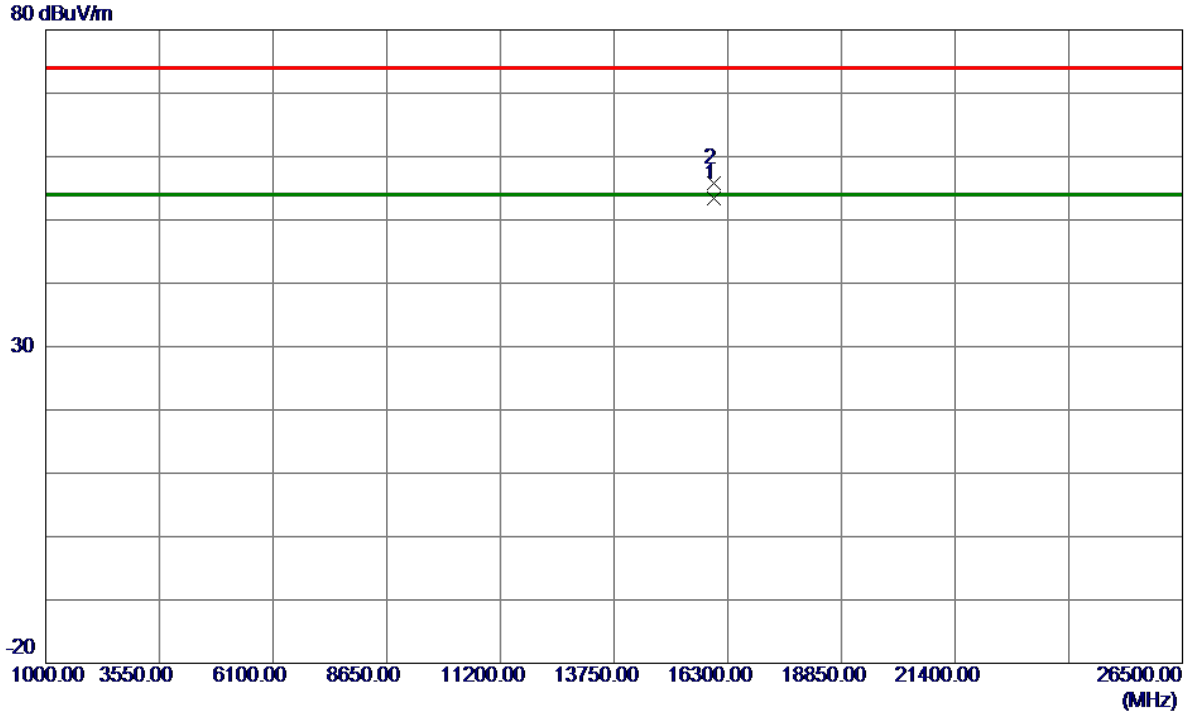
Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2444.2000	104.02	6.20	110.22	74.00	36.22	Peak	No Limit
2 *	2444.3000	95.53	6.20	101.73	54.00	47.73	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

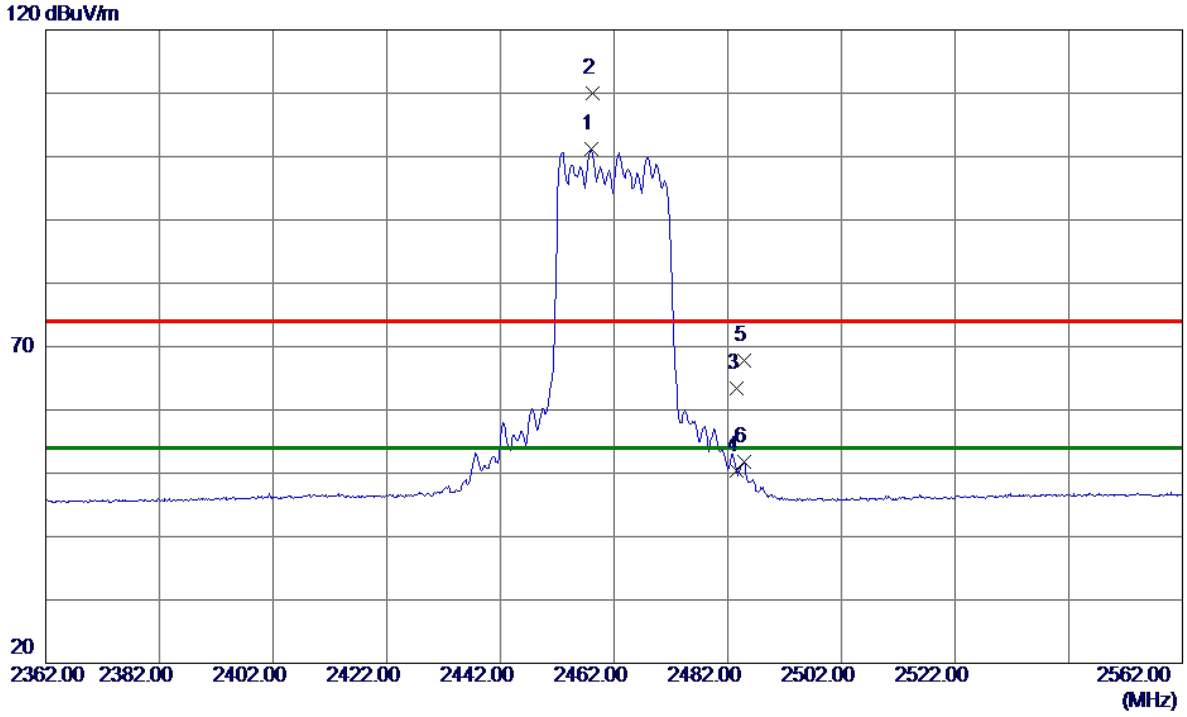
Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	16000.0000	47.50	5.99	53.49	54.00	-0.51	AVG	
2	16000.0500	49.77	5.99	55.76	74.00	-18.24	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

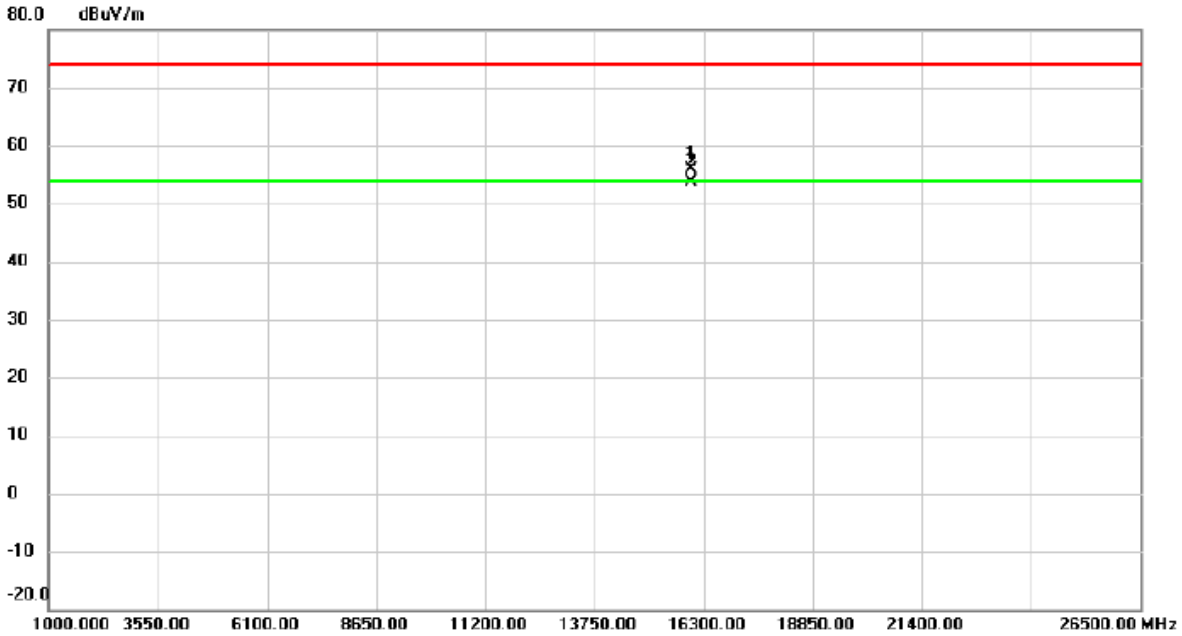
Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2457.9000	94.97	6.21	101.18	54.00	47.18	AVG	No Limit
2	2458.2000	103.88	6.21	110.09	74.00	36.09	Peak	No Limit
3	2483.5000	57.22	6.23	63.45	74.00	-10.55	Peak	
4	2483.5000	44.14	6.23	50.37	54.00	-3.63	AVG	
5	2484.8000	61.66	6.23	67.89	74.00	-6.11	Peak	
6	2484.8000	45.58	6.23	51.81	54.00	-2.19	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

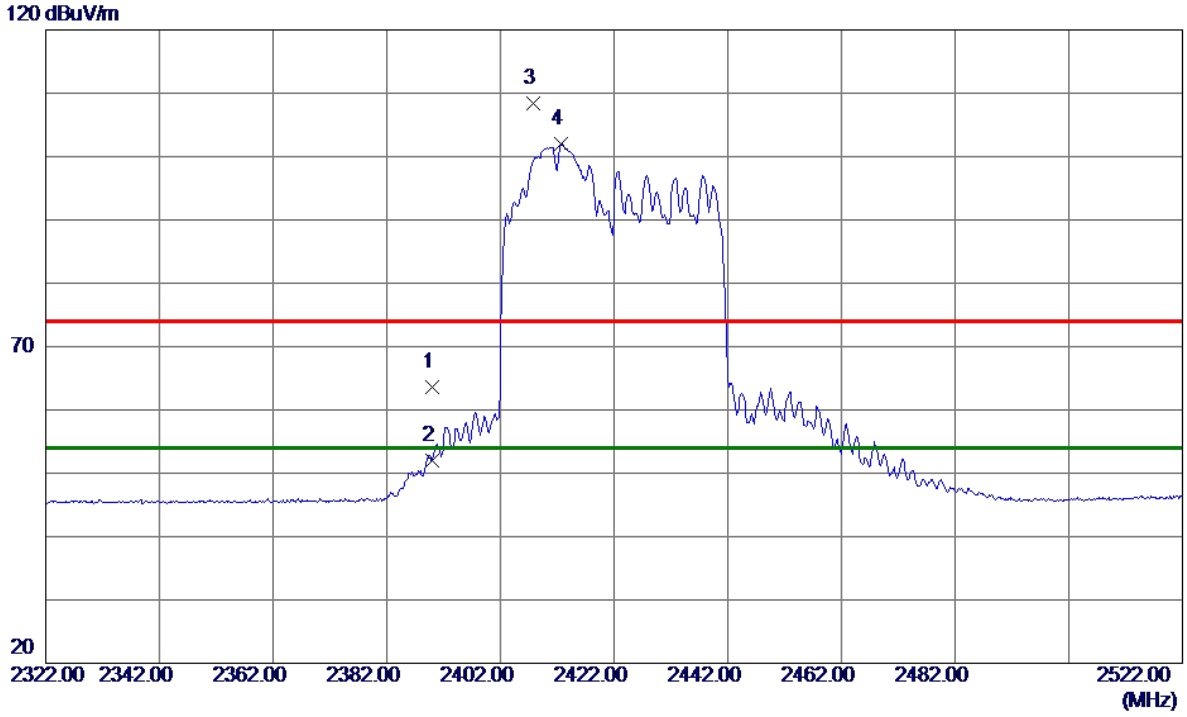
Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		16000.02	49.84	5.99	55.83	74.00	-18.17	peak	
2	*	16000.05	47.65	5.99	53.64	54.00	-0.36	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

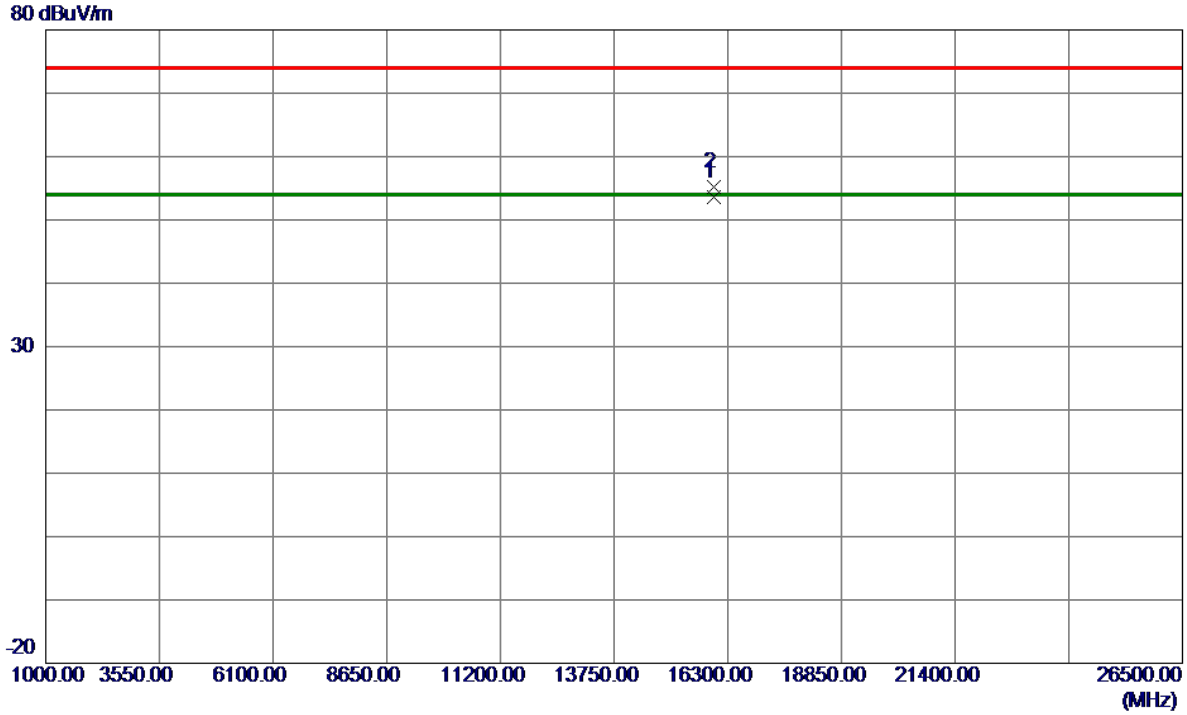
Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	57.35	6.17	63.52	74.00	-10.48	Peak	
2	2390.0000	45.83	6.17	52.00	54.00	-2.00	AVG	
3	2407.8000	102.29	6.18	108.47	74.00	34.47	Peak	No Limit
4 *	2412.6000	95.77	6.18	101.95	54.00	47.95	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

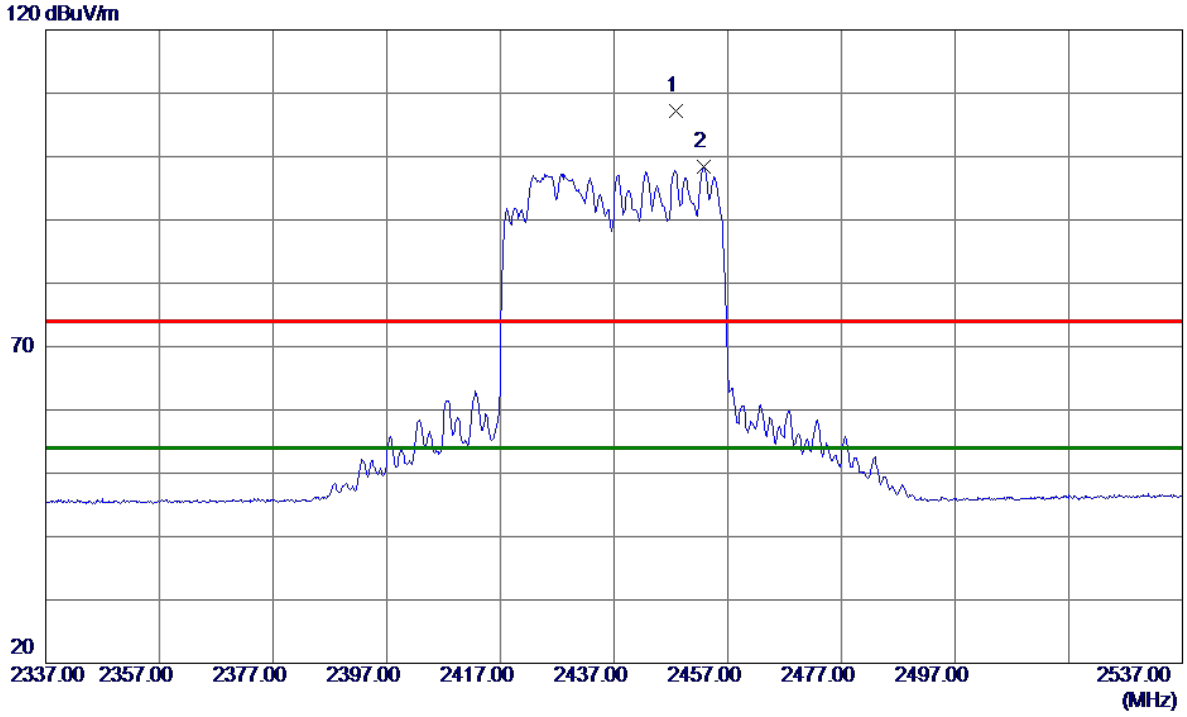
Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	16000.0500	47.62	5.99	53.61	54.00	-0.39	AVG	
2	16000.0750	49.19	5.99	55.18	74.00	-18.82	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

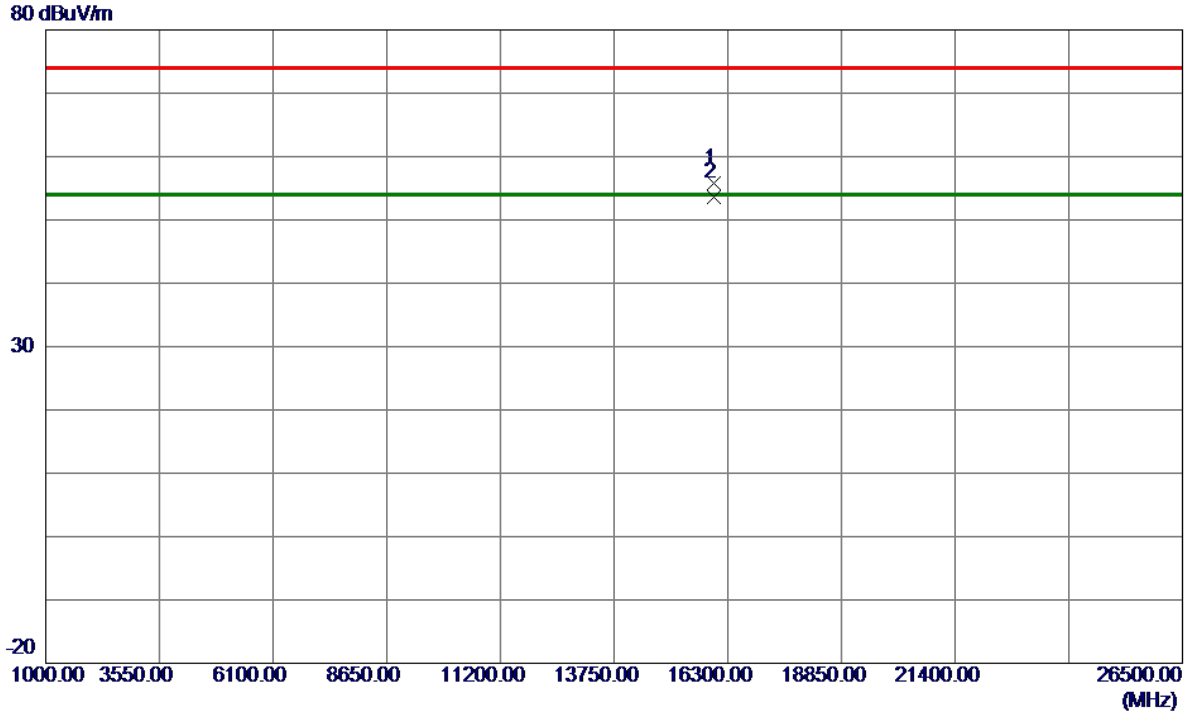
Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2447.9000	100.99	6.21	107.20	74.00	33.20	Peak	No Limit
2 *	2452.7000	92.21	6.21	98.42	54.00	44.42	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

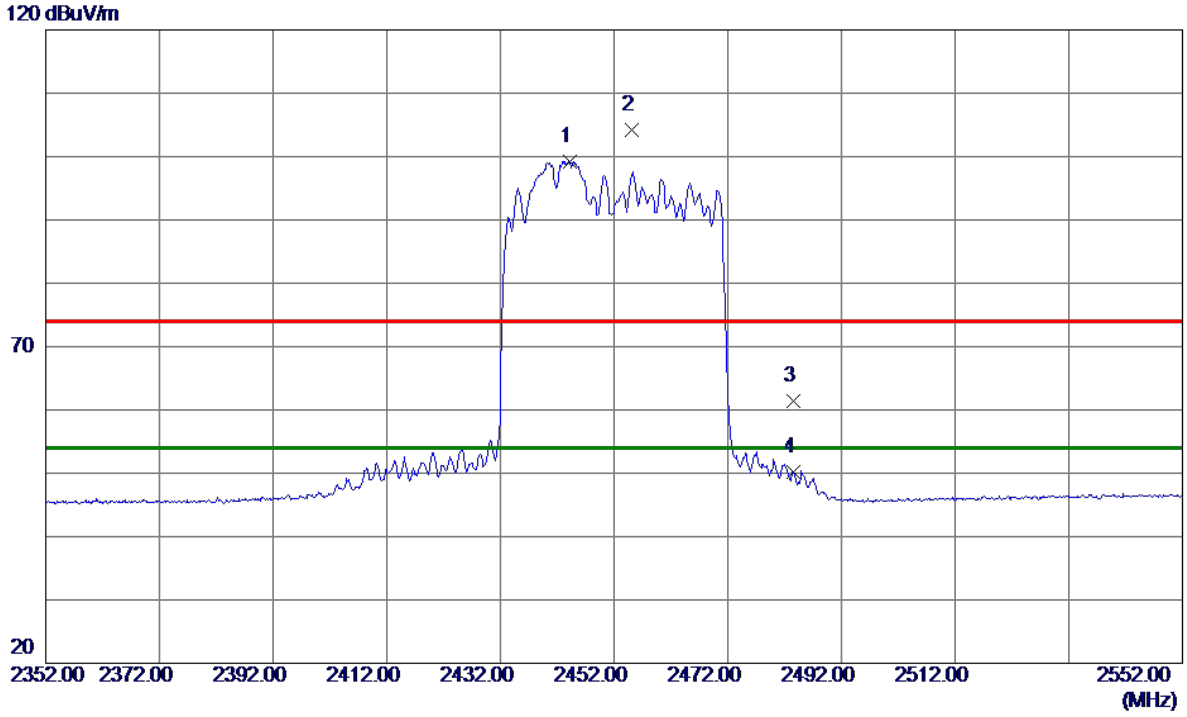
Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15999.9750	49.83	5.99	55.82	74.00	-18.18	Peak	
2 *	16000.0000	47.58	5.99	53.57	54.00	-0.43	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

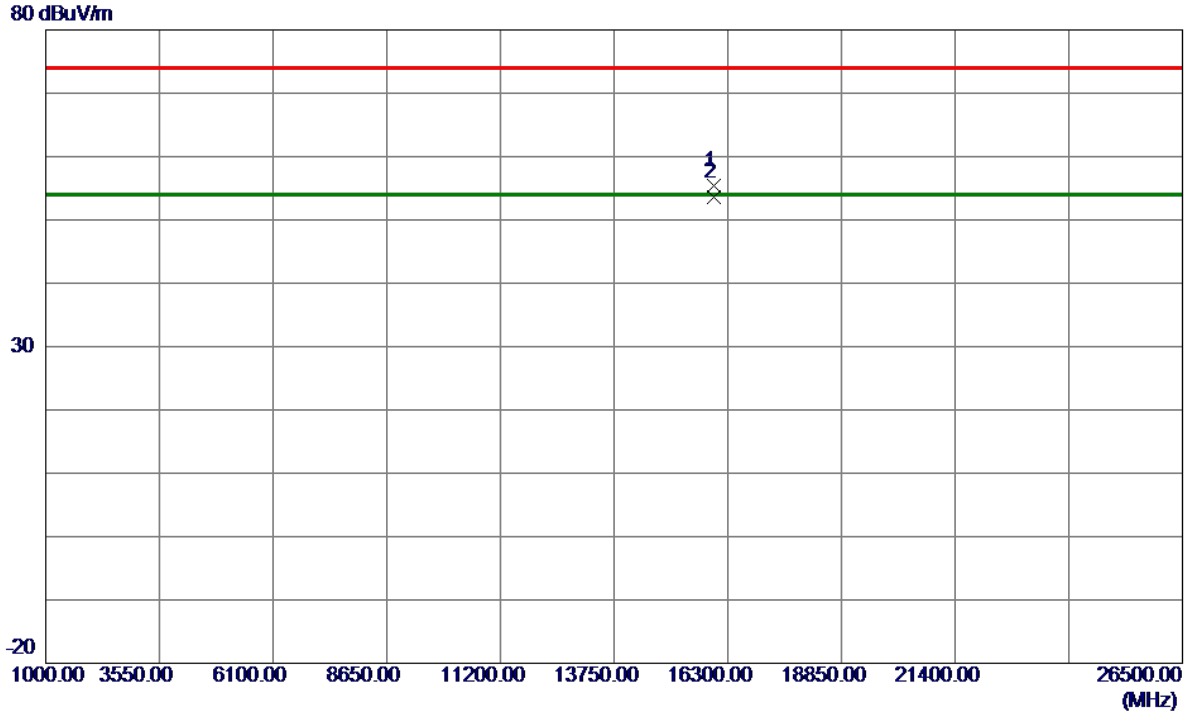
Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2444.3000	93.01	6.20	99.21	54.00	45.21	AVG	No Limit
2	2455.1000	97.91	6.21	104.12	74.00	30.12	Peak	No Limit
3	2483.5000	55.17	6.23	61.40	74.00	-12.60	Peak	
4	2483.5000	44.05	6.23	50.28	54.00	-3.72	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	16000.0750	49.35	5.99	55.34	74.00	-18.66	Peak	
2 *	16000.0750	47.60	5.99	53.59	54.00	-0.41	AVG	

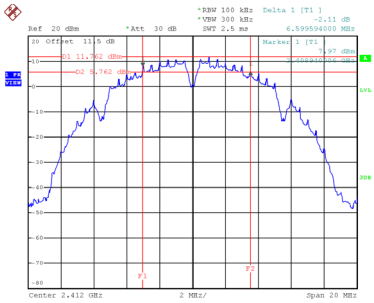
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	TX B Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	6.600	10.480	0.5	Complies
06	2437	7.120	10.560	0.5	Complies
11	2462	7.030	10.640	0.5	Complies

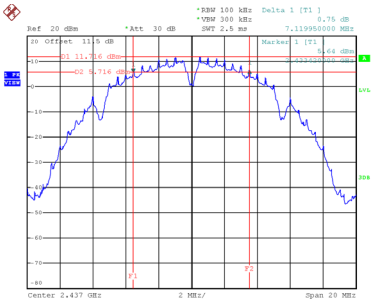
CH01



Date: 5.DEC.2023 11:40:05

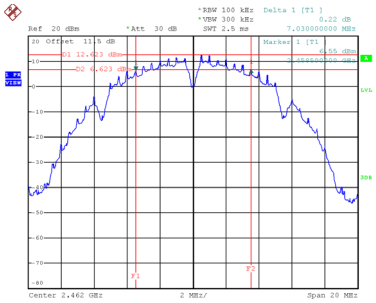
CH06

6 dB Bandwidth

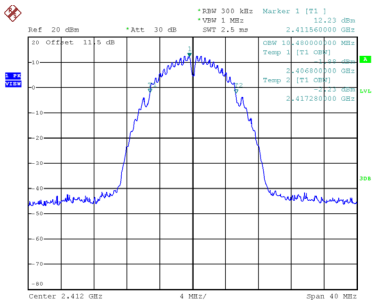


Date: 5.DEC.2023 11:43:00

CH11

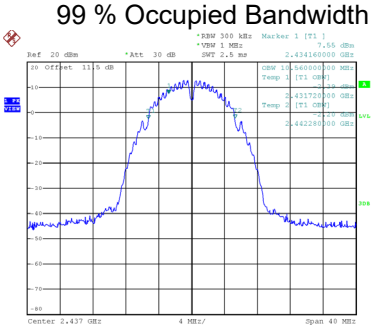


Date: 5.DEC.2023 11:46:10

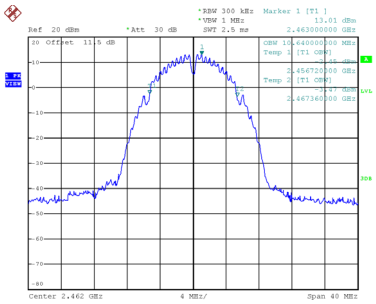


Date: 5.DEC.2023 11:40:14

99 % Occupied Bandwidth



Date: 5.DEC.2023 11:43:08

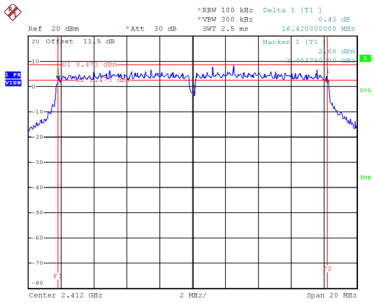


Date: 5.DEC.2023 11:46:18

Test Mode	TX G Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.420	17.120	0.5	Complies
06	2437	16.420	17.360	0.5	Complies
11	2462	16.420	17.200	0.5	Complies

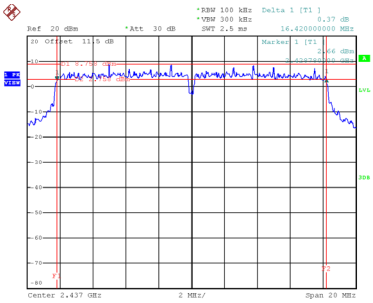
CH01



Date: 5.DEC.2023 13:51:14

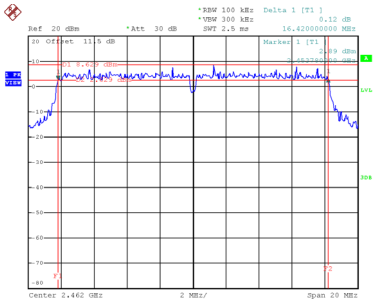
CH06

6 dB Bandwidth



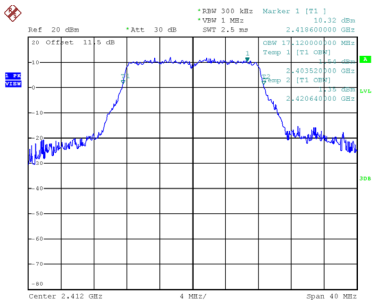
Date: 5.DEC.2023 13:53:03

CH11

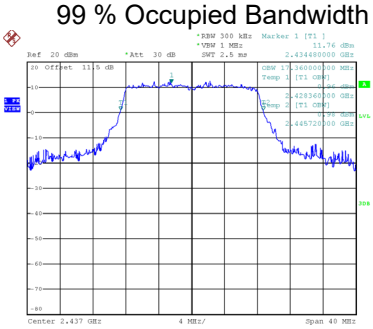


Date: 5.DEC.2023 13:54:42

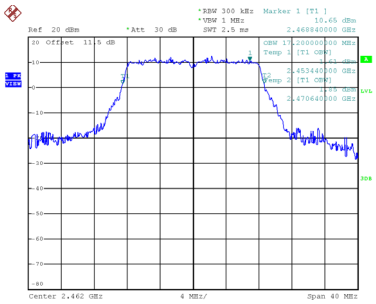
99 % Occupied Bandwidth



Date: 5.DEC.2023 13:51:23



Date: 5.DEC.2023 13:53:12

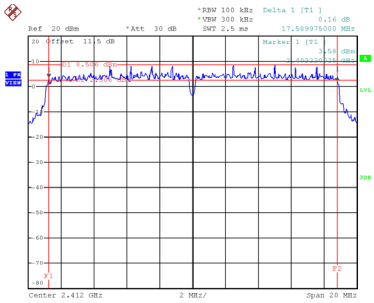


Date: 5.DEC.2023 13:54:50

Test Mode	TX N(HT20) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.590	18.240	0.5	Complies
06	2437	17.660	18.400	0.5	Complies
11	2462	17.630	18.320	0.5	Complies

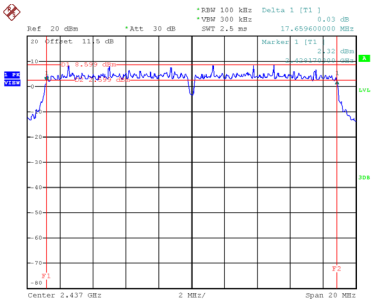
CH01



Date: 5.DEC.2023 13:57:16

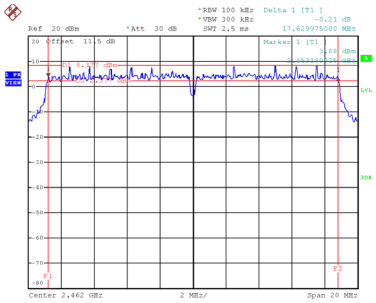
CH06

6 dB Bandwidth



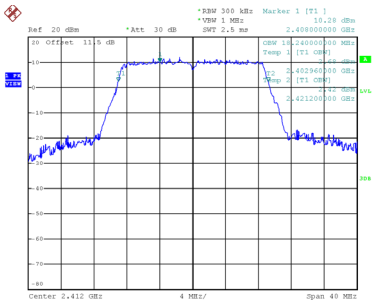
Date: 5.DEC.2023 13:58:53

CH11

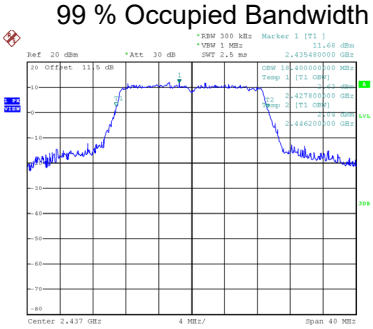


Date: 5.DEC.2023 14:00:32

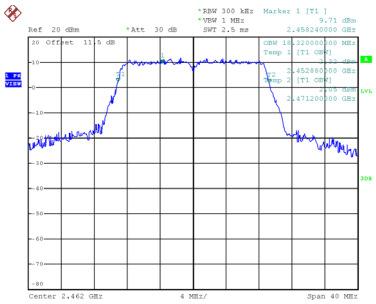
99 % Occupied Bandwidth



Date: 5.DEC.2023 13:57:25



Date: 5.DEC.2023 13:59:01

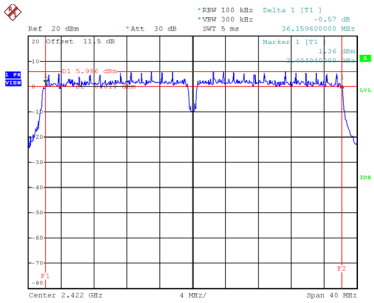


Date: 5.DEC.2023 14:00:41

Test Mode	TX N(HT40) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	36.160	37.120	0.5	Complies
06	2437	36.419	37.280	0.5	Complies
09	2452	36.439	37.120	0.5	Complies

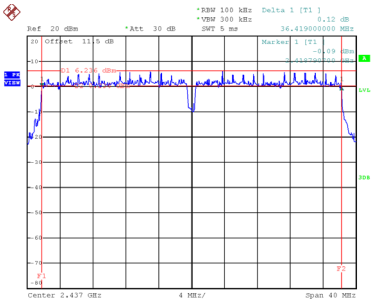
CH03



Date: 5.DEC.2023 14:02:40

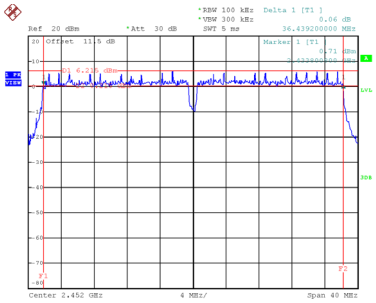
CH06

6 dB Bandwidth



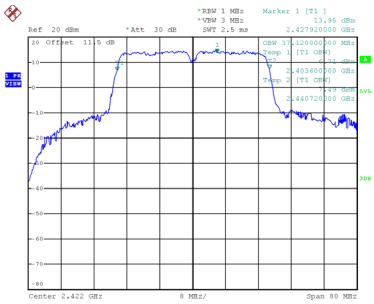
Date: 5.DEC.2023 14:04:53

CH09

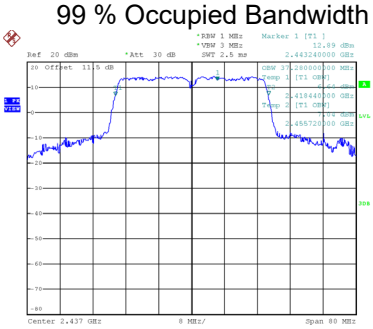


Date: 5.DEC.2023 14:06:39

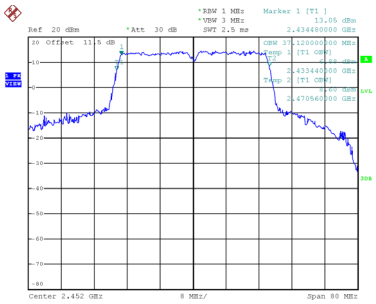
99 % Occupied Bandwidth



Date: 5.DEC.2023 14:02:49



Date: 5.DEC.2023 14:05:02

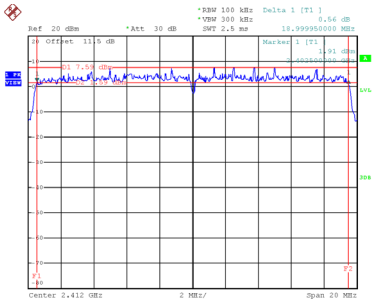


Date: 5.DEC.2023 14:06:48

Test Mode	TX AX(HE20) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	19.000	19.120	0.5	Complies
06	2437	18.950	19.200	0.5	Complies
11	2462	19.000	19.120	0.5	Complies

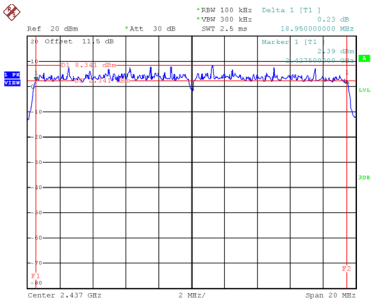
CH01



Date: 5.DEC.2023 14:14:04

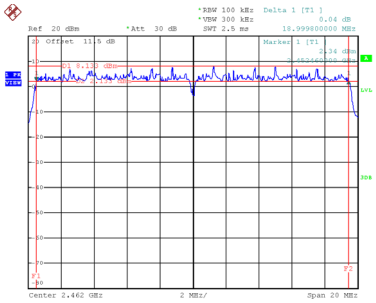
CH06

6 dB Bandwidth

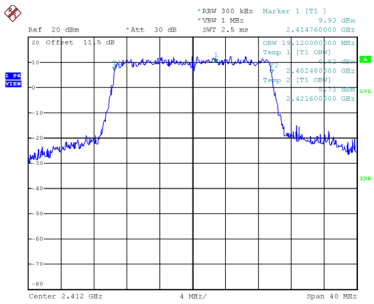


Date: 5.DEC.2023 14:15:43

CH11

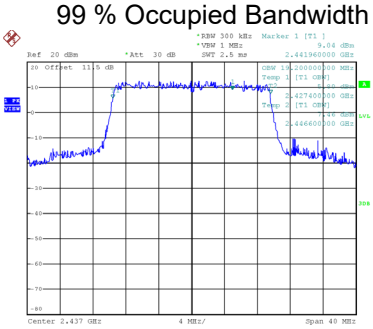


Date: 5.DEC.2023 14:17:17

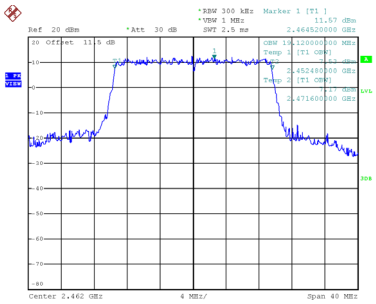


Date: 5.DEC.2023 14:14:13

99 % Occupied Bandwidth



Date: 5.DEC.2023 14:15:52

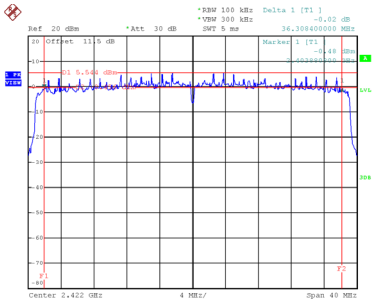


Date: 5.DEC.2023 14:17:25

Test Mode	TX AX(HE40) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	36.308	37.760	0.5	Complies
06	2437	37.679	38.080	0.5	Complies
09	2452	37.038	38.080	0.5	Complies

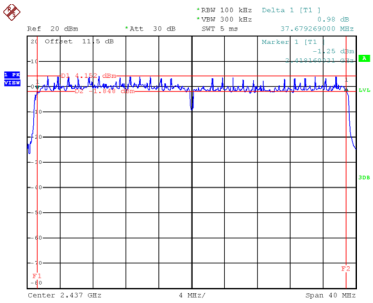
CH03



Date: 5.DEC.2023 14:27:05

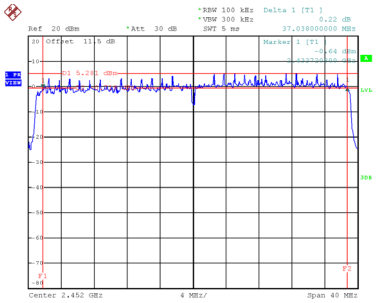
CH06

6 dB Bandwidth



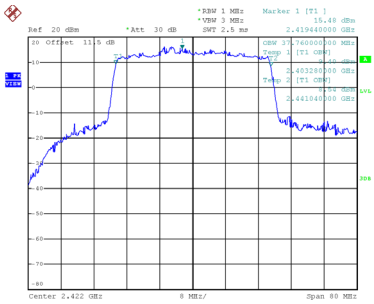
Date: 5.DEC.2023 14:28:45

CH09

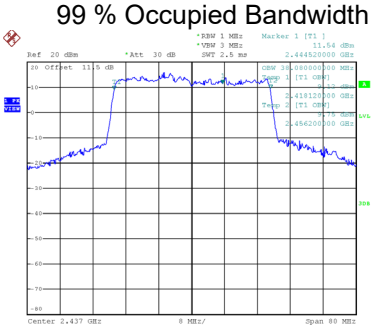


Date: 5.DEC.2023 14:30:21

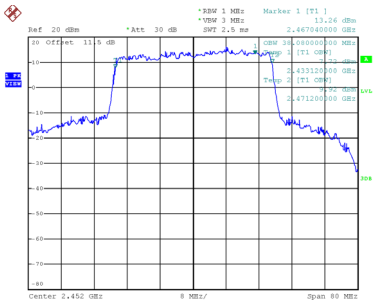
99 % Occupied Bandwidth



Date: 5.DEC.2023 14:27:14



Date: 5.DEC.2023 14:28:54



Date: 5.DEC.2023 14:30:30

APPENDIX F - MAXIMUM OUTPUT POWER

Non Beamforming

Test Mode	TX B Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.22	0.23	19.45	30.00	1.0000	Complies
06	2437	19.19	0.23	19.42	30.00	1.0000	Complies
11	2462	19.07	0.23	19.30	30.00	1.0000	Complies

Test Mode	TX B Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.20	0.23	19.43	30.00	1.0000	Complies
06	2437	19.08	0.23	19.31	30.00	1.0000	Complies
11	2462	19.26	0.23	19.49	30.00	1.0000	Complies

Test Mode	TX B Mode_Ant. 3

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.34	0.23	19.57	30.00	1.0000	Complies
06	2437	19.05	0.23	19.28	30.00	1.0000	Complies
11	2462	19.36	0.23	19.59	30.00	1.0000	Complies

Test Mode	TX B Mode_Ant. 4

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.15	0.23	19.38	30.00	1.0000	Complies
06	2437	19.29	0.23	19.52	30.00	1.0000	Complies
11	2462	19.32	0.23	19.55	30.00	1.0000	Complies

Test Mode	TX B Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.48	30.00	1.0000	Complies
06	2437	25.40	30.00	1.0000	Complies
11	2462	25.50	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.29	0.21	19.50	30.00	1.0000	Complies
06	2437	19.20	0.21	19.41	30.00	1.0000	Complies
11	2462	18.59	0.21	18.80	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.96	0.21	19.17	30.00	1.0000	Complies
06	2437	18.72	0.21	18.93	30.00	1.0000	Complies
11	2462	18.52	0.21	18.73	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 3

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.33	0.21	19.54	30.00	1.0000	Complies
06	2437	18.87	0.21	19.08	30.00	1.0000	Complies
11	2462	18.02	0.21	18.23	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 4

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.55	0.21	19.76	30.00	1.0000	Complies
06	2437	19.35	0.21	19.56	30.00	1.0000	Complies
11	2462	18.55	0.21	18.76	30.00	1.0000	Complies

Test Mode	TX G Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.52	30.00	1.0000	Complies
06	2437	25.28	30.00	1.0000	Complies
11	2462	24.66	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.85	0.00	18.85	30.00	1.0000	Complies
06	2437	19.19	0.00	19.19	30.00	1.0000	Complies
11	2462	17.96	0.00	17.96	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.35	0.00	18.35	30.00	1.0000	Complies
06	2437	18.83	0.00	18.83	30.00	1.0000	Complies
11	2462	17.85	0.00	17.85	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 3

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.81	0.00	18.81	30.00	1.0000	Complies
06	2437	18.82	0.00	18.82	30.00	1.0000	Complies
11	2462	17.48	0.00	17.48	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 4

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.71	0.00	18.71	30.00	1.0000	Complies
06	2437	19.13	0.00	19.13	30.00	1.0000	Complies
11	2462	17.89	0.00	17.89	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.71	30.00	1.0000	Complies
06	2437	25.02	30.00	1.0000	Complies
11	2462	23.82	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.64	0.13	18.77	30.00	1.0000	Complies
06	2437	19.12	0.13	19.25	30.00	1.0000	Complies
09	2452	17.19	0.13	17.32	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.22	0.13	18.35	30.00	1.0000	Complies
06	2437	18.68	0.13	18.81	30.00	1.0000	Complies
09	2452	17.22	0.13	17.35	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 3

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.47	0.13	18.60	30.00	1.0000	Complies
06	2437	18.53	0.13	18.66	30.00	1.0000	Complies
09	2452	17.07	0.13	17.20	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 4

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.85	0.13	18.98	30.00	1.0000	Complies
06	2437	18.81	0.13	18.94	30.00	1.0000	Complies
09	2452	17.56	0.13	17.69	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.71	30.00	1.0000	Complies
06	2437	24.94	30.00	1.0000	Complies
09	2452	23.42	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.35	0.09	18.44	30.00	1.0000	Complies
06	2437	19.27	0.09	19.36	30.00	1.0000	Complies
11	2462	17.89	0.09	17.98	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.13	0.09	18.22	30.00	1.0000	Complies
06	2437	18.66	0.09	18.75	30.00	1.0000	Complies
11	2462	17.89	0.09	17.98	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Ant. 3

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.33	0.09	18.42	30.00	1.0000	Complies
06	2437	18.84	0.09	18.93	30.00	1.0000	Complies
11	2462	17.45	0.09	17.54	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Ant. 4

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.37	0.09	18.46	30.00	1.0000	Complies
06	2437	19.18	0.09	19.27	30.00	1.0000	Complies
11	2462	17.94	0.09	18.03	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.41	30.00	1.0000	Complies
06	2437	25.11	30.00	1.0000	Complies
11	2462	23.91	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	19.21	0.16	19.37	30.00	1.0000	Complies
06	2437	19.14	0.16	19.30	30.00	1.0000	Complies
09	2452	17.37	0.16	17.53	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.82	0.16	18.98	30.00	1.0000	Complies
06	2437	18.57	0.16	18.73	30.00	1.0000	Complies
09	2452	17.27	0.16	17.43	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Ant. 3

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.71	0.16	18.87	30.00	1.0000	Complies
06	2437	18.78	0.16	18.94	30.00	1.0000	Complies
09	2452	17.18	0.16	17.34	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Ant. 4

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	19.35	0.16	19.51	30.00	1.0000	Complies
06	2437	19.02	0.16	19.18	30.00	1.0000	Complies
09	2452	17.64	0.16	17.80	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	25.21	30.00	1.0000	Complies
06	2437	25.07	30.00	1.0000	Complies
09	2452	23.55	30.00	1.0000	Complies

Beamforming

Test Mode	TX N(HT20) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.39	0.00	18.39	26.30	0.4266	Complies
06	2437	18.45	0.00	18.45	26.30	0.4266	Complies
11	2462	17.60	0.00	17.60	26.30	0.4266	Complies

Test Mode	TX N(HT20) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.18	0.00	18.18	26.30	0.4266	Complies
06	2437	18.59	0.00	18.59	26.30	0.4266	Complies
11	2462	17.48	0.00	17.48	26.30	0.4266	Complies

Test Mode	TX N(HT20) Mode_Ant. 3

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.48	0.00	18.48	26.30	0.4266	Complies
06	2437	18.59	0.00	18.59	26.30	0.4266	Complies
11	2462	17.34	0.00	17.34	26.30	0.4266	Complies

Test Mode	TX N(HT20) Mode_Ant. 4

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.26	0.00	18.26	26.30	0.4266	Complies
06	2437	18.70	0.00	18.70	26.30	0.4266	Complies
11	2462	17.59	0.00	17.59	26.30	0.4266	Complies

Test Mode	TX N(HT20) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.35	26.30	0.4266	Complies
06	2437	24.60	26.30	0.4266	Complies
11	2462	23.52	26.30	0.4266	Complies

Test Mode	TX N(HT40) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.17	0.13	18.30	26.30	0.4266	Complies
06	2437	18.50	0.13	18.63	26.30	0.4266	Complies
09	2452	16.80	0.13	16.93	26.30	0.4266	Complies

Test Mode	TX N(HT40) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.83	0.13	17.96	26.30	0.4266	Complies
06	2437	18.41	0.13	18.54	26.30	0.4266	Complies
09	2452	17.23	0.13	17.36	26.30	0.4266	Complies

Test Mode	TX N(HT40) Mode_Ant. 3

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.01	0.13	18.14	26.30	0.4266	Complies
06	2437	18.05	0.13	18.18	26.30	0.4266	Complies
09	2452	16.59	0.13	16.72	26.30	0.4266	Complies

Test Mode	TX N(HT40) Mode_Ant. 4

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.40	0.13	18.53	26.30	0.4266	Complies
06	2437	18.45	0.13	18.58	26.30	0.4266	Complies
09	2452	17.35	0.13	17.48	26.30	0.4266	Complies

Test Mode	TX N(HT40) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.26	26.30	0.4266	Complies
06	2437	24.51	26.30	0.4266	Complies
09	2452	23.16	26.30	0.4266	Complies

Test Mode	TX AX(HE20) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.55	0.09	17.64	26.30	0.4266	Complies
06	2437	18.71	0.09	18.80	26.30	0.4266	Complies
11	2462	17.47	0.09	17.56	26.30	0.4266	Complies

Test Mode	TX AX(HE20) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.83	0.09	17.92	26.30	0.4266	Complies
06	2437	18.66	0.09	18.75	26.30	0.4266	Complies
11	2462	17.63	0.09	17.72	26.30	0.4266	Complies

Test Mode	TX AX(HE20) Mode_Ant. 3

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.27	0.09	18.36	26.30	0.4266	Complies
06	2437	18.54	0.09	18.63	26.30	0.4266	Complies
11	2462	17.24	0.09	17.33	26.30	0.4266	Complies

Test Mode	TX AX(HE20) Mode_Ant. 4

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.95	0.09	18.04	26.30	0.4266	Complies
06	2437	18.88	0.09	18.97	26.30	0.4266	Complies
11	2462	17.66	0.09	17.75	26.30	0.4266	Complies

Test Mode	TX AX(HE20) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.02	26.30	0.4266	Complies
06	2437	24.81	26.30	0.4266	Complies
11	2462	23.62	26.30	0.4266	Complies

Test Mode	TX AX(HE40) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.95	0.16	19.11	26.30	0.4266	Complies
06	2437	18.42	0.16	18.58	26.30	0.4266	Complies
09	2452	16.86	0.16	17.02	26.30	0.4266	Complies

Test Mode	TX AX(HE40) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.46	0.16	18.62	26.30	0.4266	Complies
06	2437	18.54	0.16	18.70	26.30	0.4266	Complies
09	2452	16.84	0.16	17.00	26.30	0.4266	Complies

Test Mode	TX AX(HE40) Mode_Ant. 3

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.22	0.16	18.38	26.30	0.4266	Complies
06	2437	18.32	0.16	18.48	26.30	0.4266	Complies
09	2452	16.75	0.16	16.91	26.30	0.4266	Complies

Test Mode	TX AX(HE40) Mode_Ant. 4

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.77	0.16	18.93	26.30	0.4266	Complies
06	2437	18.64	0.16	18.80	26.30	0.4266	Complies
09	2452	17.23	0.16	17.39	26.30	0.4266	Complies

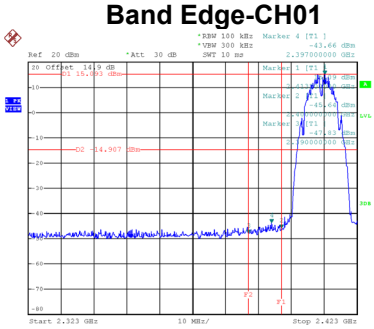
Test Mode	TX AX(HE40) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.79	26.30	0.4266	Complies
06	2437	24.66	26.30	0.4266	Complies
09	2452	23.11	26.30	0.4266	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

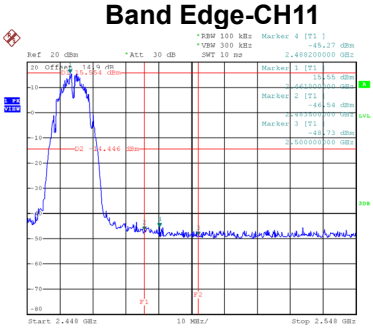
Test Mode	TX B Mode_Ant. 1

Band Edge-CH01



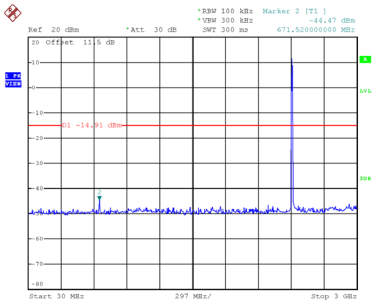
Date: 5.DEC.2023 11:40:23

Band Edge-CH11



Date: 5.DEC.2023 11:46:28

CH01 – 10th Harmonic of the fundamental frequency



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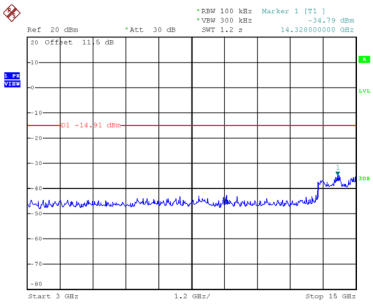

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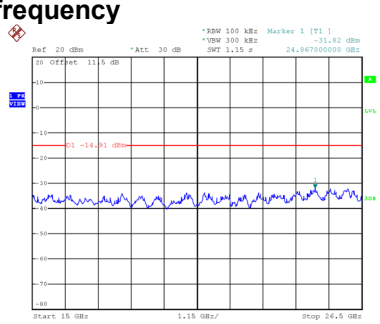
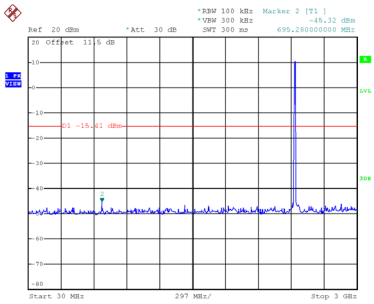
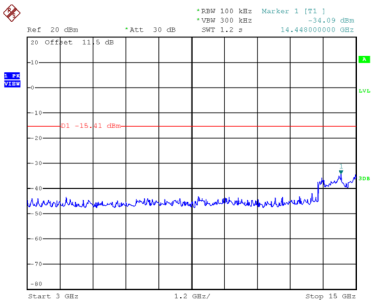


Date: 5.DEC.2023 11:40:57

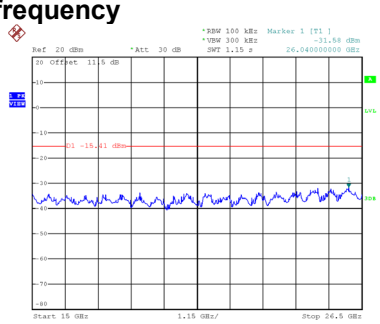
CH06 – 10th Harmonic of the fundamental frequency



Date: 5.DEC.2023 11:44:35

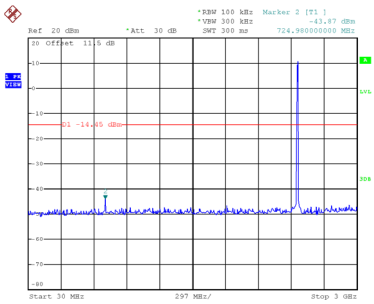


Date: 5.DEC.2023 11:44:44



Date: 5.DEC.2023 11:44:54

CH11 – 10th Harmonic of the fundamental frequency



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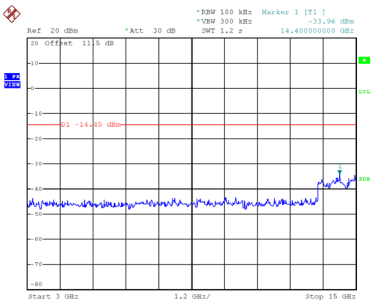
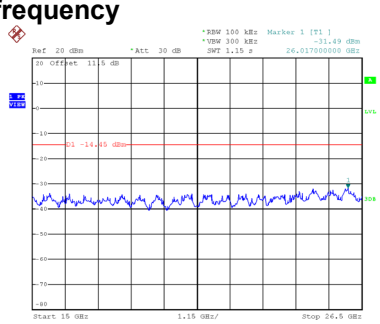


Date: 5.DEC.2023 11:46:52



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