

FCC Radio Test Report

FCC ID: ACJ-SL-G700M2

This report concerns: Original Grant

Project No. : 2207C092
Equipment : NETWORK / SUPER AUDIO CD PLAYER
Brand Name : Technics
Test Model : SL-G700M2
Series Model : N/A
Applicant : Panasonic Corporation of North America
Address : Two Riverfront Plaza, 9th Floor Newark, New Jersey 07102-5490
United States
Manufacturer : Panasonic Corporation of North America
Address : Two Riverfront Plaza, 9th Floor Newark, New Jersey 07102-5490
United States
Factory : Panasonic AVC Networks Johor Malaysia
Address : IE,PLO 460, Jalan Bandar, 81700 Pasir Gudang, Johor, Malaysia
Date of Receipt : Jul. 29, 2022
Date of Test : Aug. 02, 2022 ~ Sep. 09, 2022
Issued Date : Sep. 20, 2022
Report Version : R00
Test Sample : Engineering Sample No.: DG2022080148
Standard(s) : FCC CFR Title 47, Part 15, Subpart C
FCC KDB 558074 D01 15.247 Meas Guidance v05r02
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10-2013

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

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TESTING CERT #5123.02

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The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

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-3-2207C092	R00	Original Report.	Sep. 20, 2022	Valid

1. 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.

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.

BTL's Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 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.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	55%	AC 120V/60Hz	Farun Liang
Radiated Emissions-9kHz to 30 MHz	25°C	55%	AC 120V/60Hz	Bob Cao
Radiated Emissions-30MHz to 1000MHz	23°C	53%	AC 120V/60Hz	Berton Luo
Radiated Emissions-Above 1000MHz	23°C	53%	AC 120V/60Hz	Berton Luo
Bandwidth	23-24°C	58-61%	AC 120V/60Hz	Ansel Yang Complex Qin
Maximum Output Power	23.2-24°C	57.5-70%	AC 120V/60Hz	Complex Qin
Conducted Spurious Emissions	23-24°C	58-61%	AC 120V/60Hz	Ansel Yang Complex Qin
Power Spectral Density	23-24°C	58-61%	AC 120V/60Hz	Ansel Yang Complex Qin

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	NETWORK / SUPER AUDIO CD PLAYER
Brand Name	Technics
Test Model	SL-G700M2
Series Model	N/A
Model Difference(s)	N/A
Power Source	AC Mains.
Power Rating	120V~ 45W 60Hz
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
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 300 Mbps
Maximum Peak Output Power	IEEE 802.11n(HT20): 28.71 dBm (0.4730 W)
Maximum Average Output Power	IEEE 802.11b: 16.23 dBm (0.0420 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)							
CH03 - CH09 for IEEE 802.11n(HT40)							
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.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	Panasonic Corporation	TNPA7779-1	Dipole	N/A	1.69
2	Panasonic Corporation	TNPA7780-1	Dipole	N/A	1.69

Note:

- 1) This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain= $G_{ANT}+10\log(N)$ dBi, that is Directional gain= $1.69+10\log(2)$ dBi=4.70.
- 2) The antenna gain is provided by the manufacturer.

4. Table for Antenna Configuration:

Operating Mode	TX Mode	1TX	2TX
IEEE 802.11b		V (Ant. 1)	-
IEEE 802.11g		V (Ant. 1)	-
IEEE 802.11n(HT20)		-	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)		-	V(Ant. 1 + Ant. 2)

2.2 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 N(HT20) Mode Channel 06

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 5	TX N(HT20) Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 5	TX N(HT20) Mode Channel 06

Radiated emissions test- Above 1GHz	
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

Conducted test	
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

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 N(HT20) Mode Channel 06 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) For radiated emission above 1 GHz test: The polarization of vertical and horizontal are evaluated, the worst case is vertical and recorded.

2.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	DutApiMimoBtFmBridgeEth 2.0.0.87		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	16	17	17
IEEE 802.11g	17	17	17
IEEE 802.11n(HT20)	15	15	15
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	15	18	15

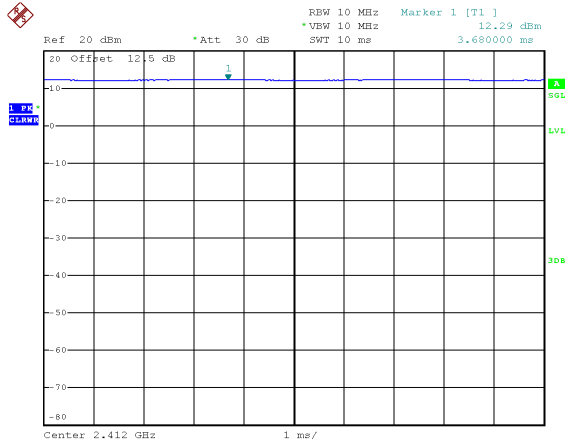
2.4 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.

If duty cycle is $< 98\%$, duty factor shall be considered.

The average output power = measured average power + duty factor.

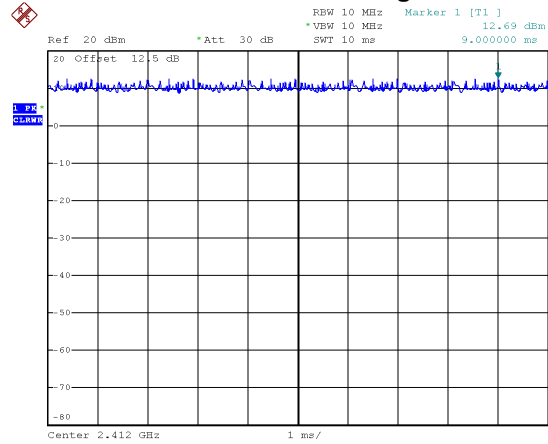
IEEE 802.11b



Date: 23.AUG.2022 05:26:33

Duty cycle = 1000.000 ms / 1000.000 ms = 100%
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$

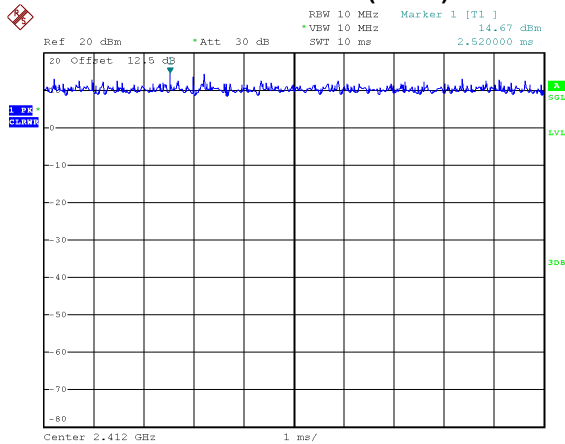
IEEE 802.11g



Date: 23.AUG.2022 05:29:32

Duty cycle = 1000.000 ms / 1000.000 ms = 100%
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$

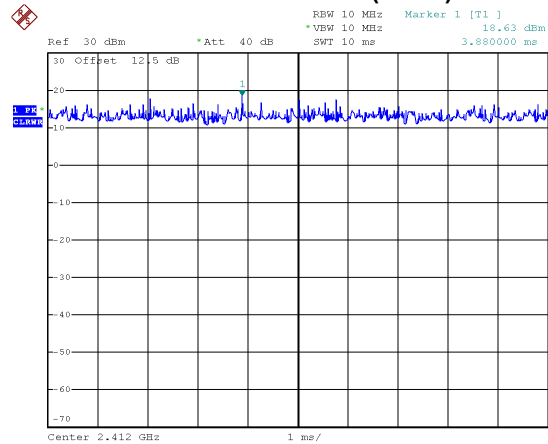
IEEE 802.11n(HT20)



Date: 23.AUG.2022 05:31:31

Duty cycle = 1000.000 ms / 1000.000 ms = 100%
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$

IEEE 802.11n(HT40)



Date: 23.AUG.2022 05:34:19

Duty cycle = 1000.000 ms / 1000.000 ms = 100%
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$

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 1 kHz.

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 1 kHz.

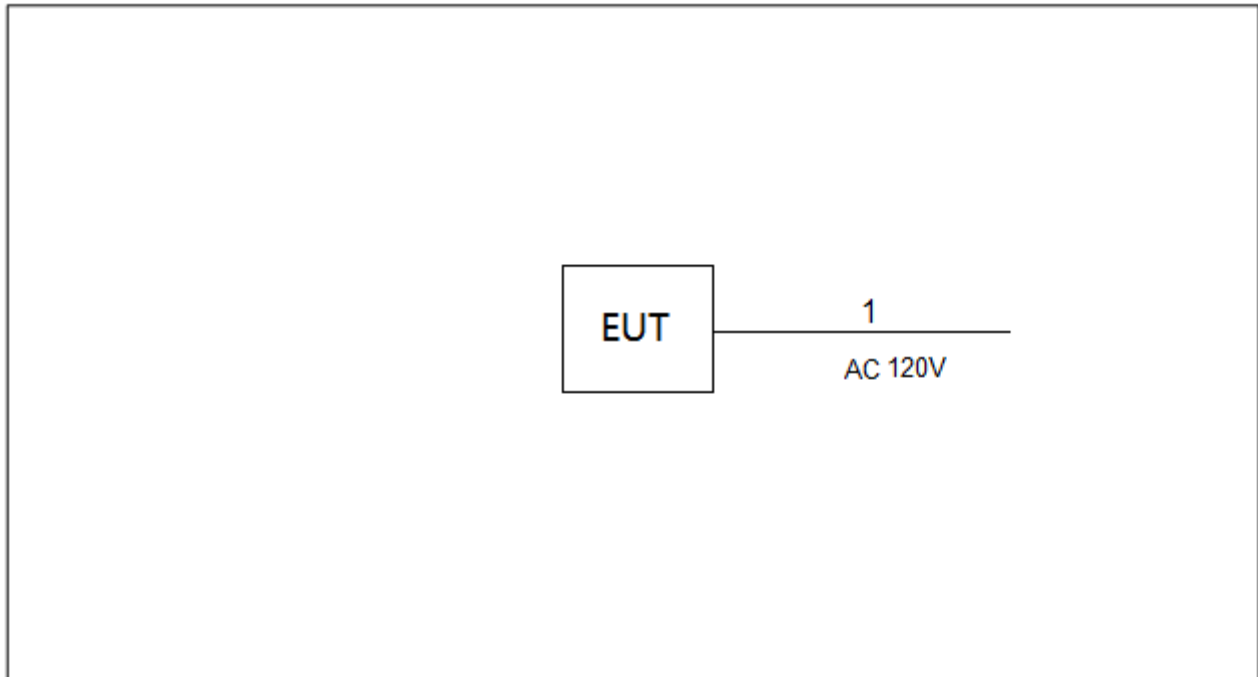
For IEEE 802.11n(HT20):

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 2 kHz.

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	AC Cable	NO	NO	1.8m

3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Frequency of Emission (MHz)	Limit (dB μ V)	
	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.

3.2 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.

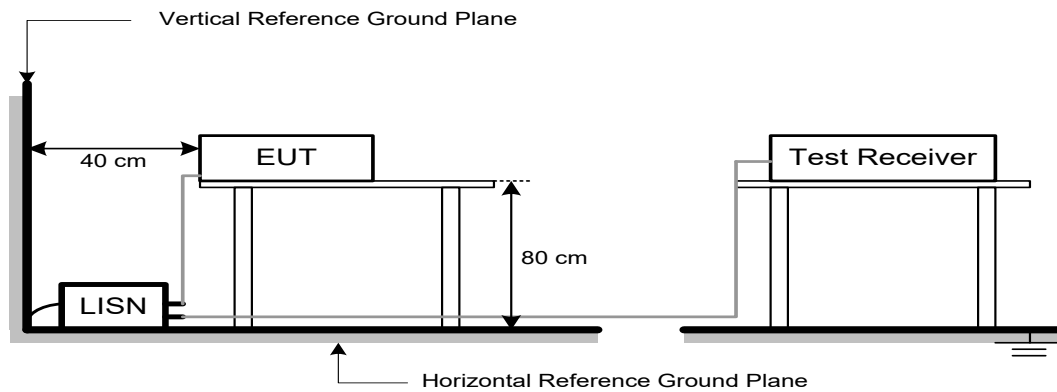
The following table is the setting of the receiver:

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

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS

4.1 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).

4.2 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

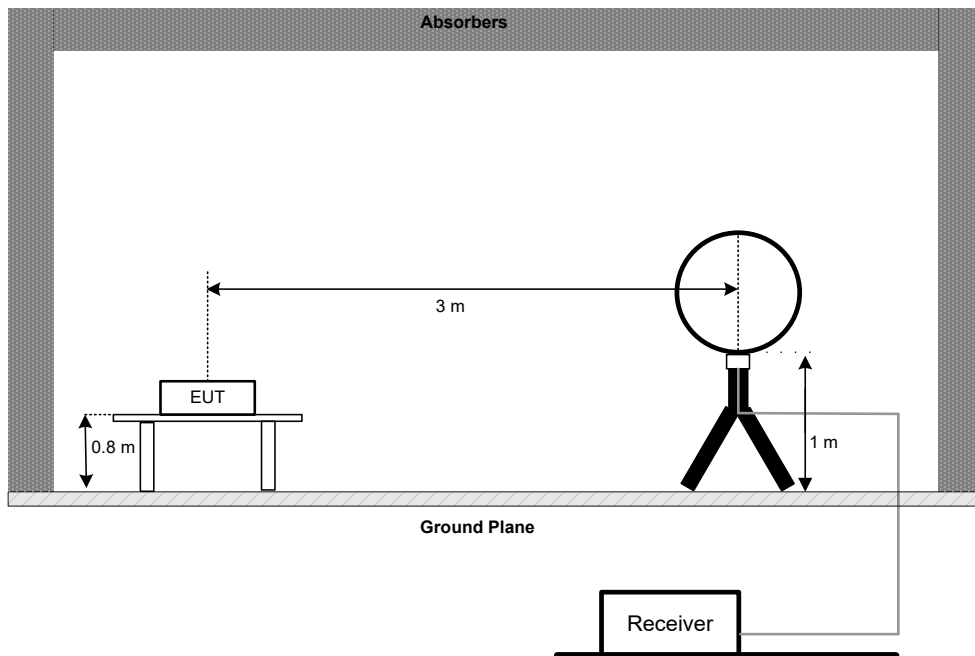
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

4.3 DEVIATION FROM TEST STANDARD

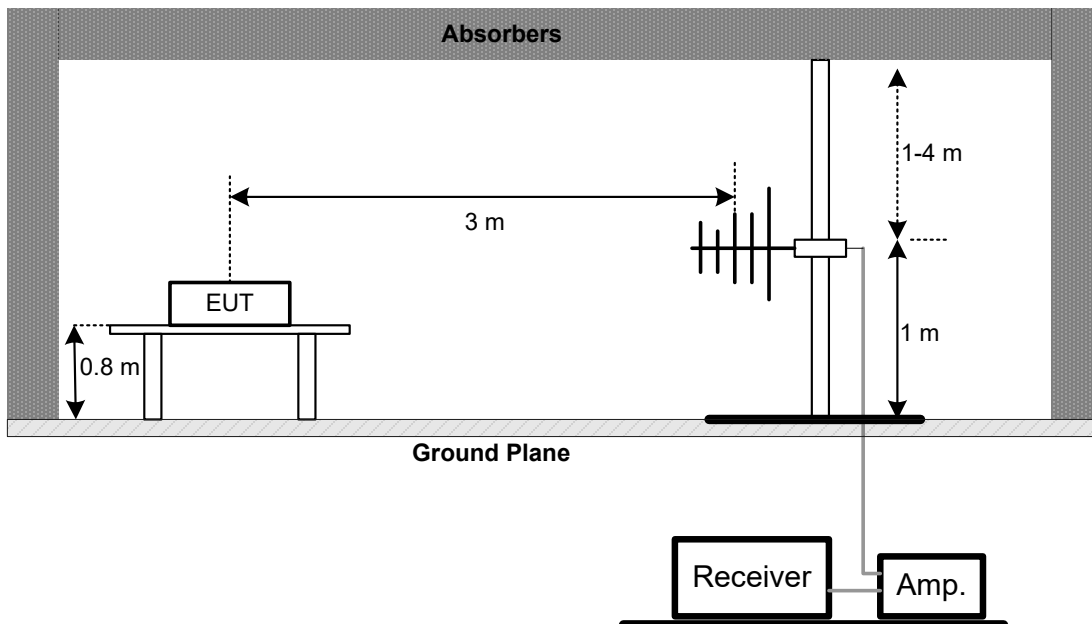
No deviation.

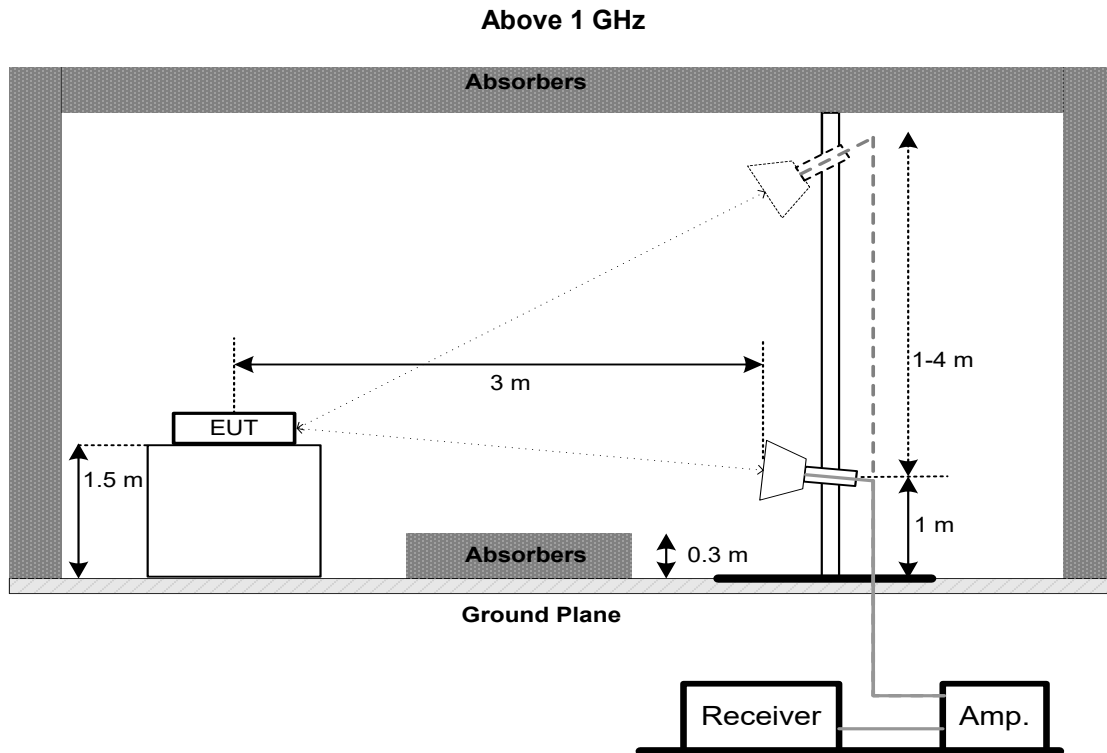
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 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.

5. BANDWIDTH

5.1 LIMIT

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

5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- 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

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER

6.1 LIMIT

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

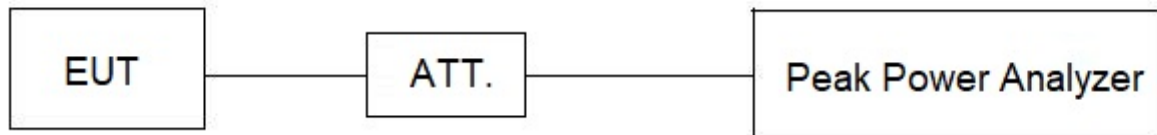
6.2 TEST PROCEDURE

- The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.1.3 or 11.9.2.3.1 of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

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 F.

7. CONDUCTED SPURIOUS EMISSIONS

7.1 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.

7.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- 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

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 G.

8. POWER SPECTRAL DENSITY

8.1 LIMIT

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

8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- 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

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 H.

9. 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	ESCI	100382	Jan. 22, 2023
2	LISN	EMCO	3816/2	52765	Jan. 23, 2023
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Jan. 23, 2023
4	50Ω Terminator	SHX	TF5-3	15041304	Jan. 22, 2023
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 08, 2023
7	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	MXE EMI Receiver	Keysight	N9038A	MY56400091	Jan. 22, 2023
2*	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 23, 2024
3	Cable	N/A	RG 213/U(9kHz~1GHz)	N/A	Jun. 17, 2023
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. 14, 2023

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 03, 2023
2	Amplifier	HP	8447D	2944A08742	Jan. 22, 2023
3	Cable	emci	LMR-400	N/A	Nov. 30, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	966 Chamber Room	RM	9*6*6	N/A	Jul. 15, 2023

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Horn Antenna	ARA	DRG-118A	16554	Apr. 18, 2023
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	May 27, 2023
3	Amplifier	Agilent	8449B	3008A02584	Jul. 03, 2023
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023
7	EXA Spectrum Analyzer	Keysight	N9010A	MY56480488	Jan. 22, 2023
8*	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 05, 2025
9	Cable	Talent microwave	A81-SMAMSMAM-12.5M	N/A	Oct. 15, 2022
10	Cable	Talent microwave	A40-2.92M2.92M-2.5M	N/A	Nov. 30, 2022
11	Filter	STI	STI15-9912	N/A	Jul. 03, 2023
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
13	966 Chamber Room	RM	9*6*6	N/A	Jul. 15, 2023

Bandwidth & Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Jul. 03, 2023
2	Attenuator	WOKEN	6SM3502	VAS1214NL	N/A
3	RF Cable	Tongkaichuan	N/A	N/A	N/A
4	DC Block	Mini	N/A	N/A	N/A

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jul. 03, 2023
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jul. 03, 2023
3	Attenuator	WOKEN	6SM3502	VAS1214NL	N/A
4	RF Cable	Tongkaichuan	N/A	N/A	N/A

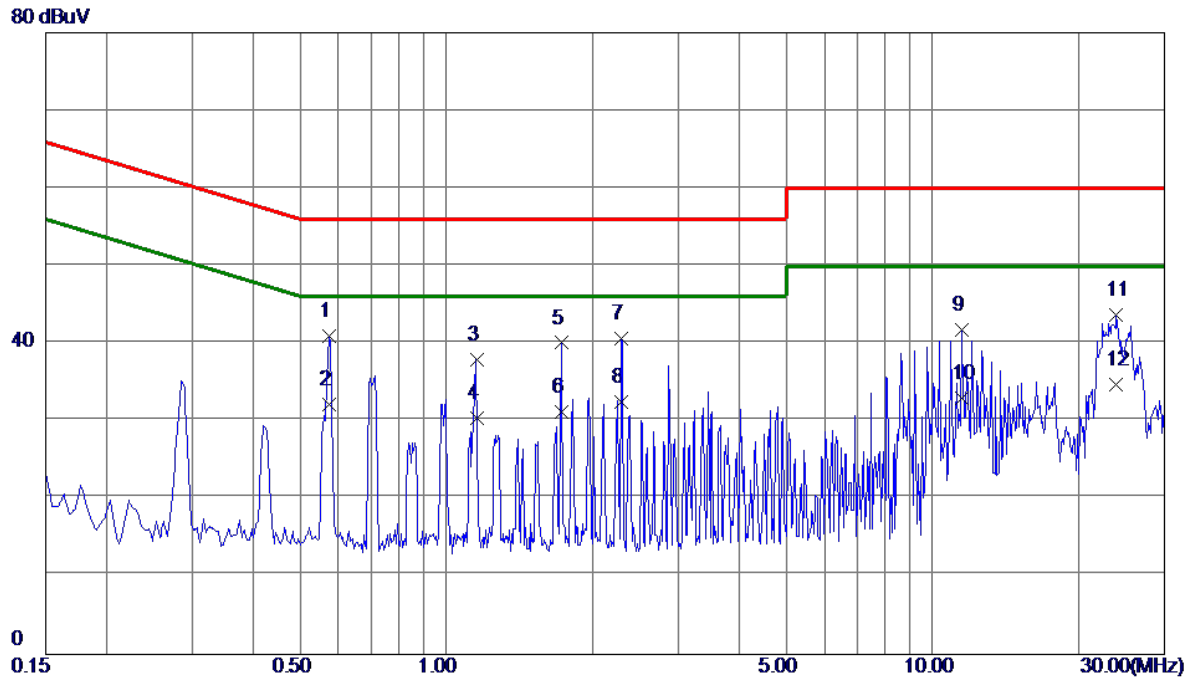
Remark: "N/A" denotes no model name, serial no. or calibration specified.

"**" calibration period of equipment list is three year.

Except * item, all calibration period of equipment list is one year.

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX N(HT20) Mode Channel 06	Phase	Line
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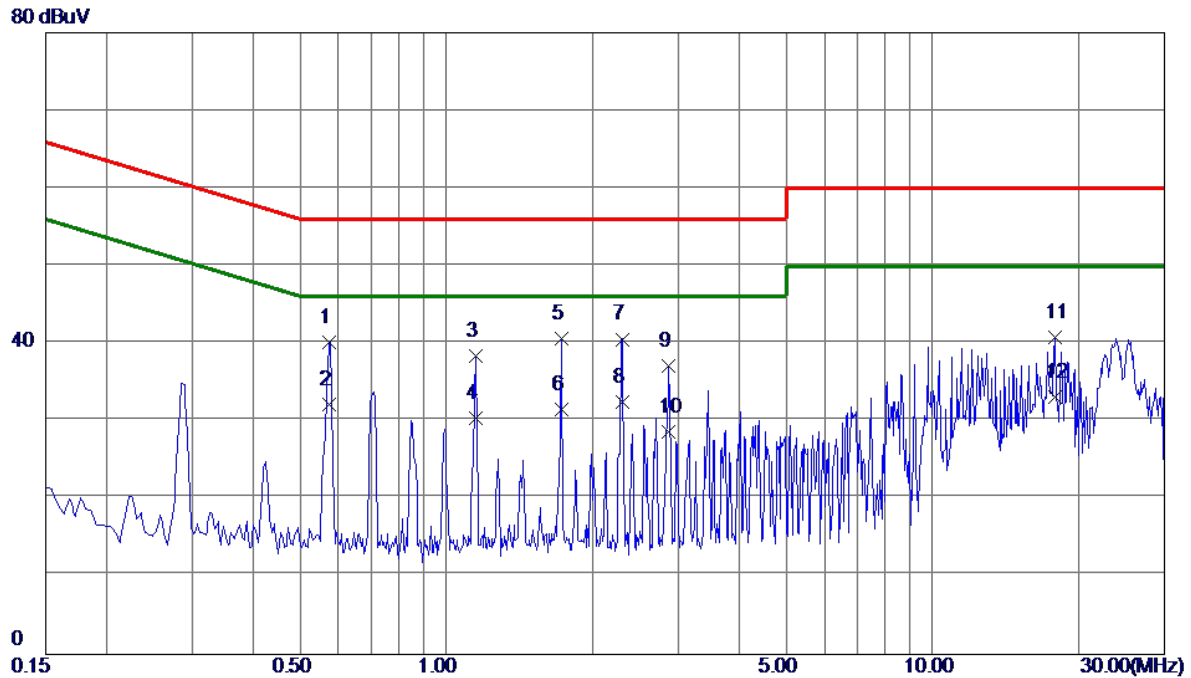


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.5730	31.20	9.78	40.98	56.00	-15.02	QP	
2	0.5730	22.40	9.78	32.18	46.00	-13.82	AVG	
3	1.1535	28.10	9.84	37.94	56.00	-18.06	QP	
4	1.1535	20.50	9.84	30.34	46.00	-15.66	AVG	
5	1.7250	30.21	9.87	40.08	56.00	-15.92	QP	
6	1.7250	21.39	9.87	31.26	46.00	-14.74	AVG	
7	2.2965	30.76	9.91	40.67	56.00	-15.33	QP	
8 *	2.2965	22.61	9.91	32.52	46.00	-13.48	AVG	
9	11.4809	31.30	10.52	41.82	60.00	-18.18	QP	
10	11.4809	22.39	10.52	32.91	50.00	-17.09	AVG	
11	23.8920	32.84	10.90	43.74	60.00	-16.26	QP	
12	23.8920	23.80	10.90	34.70	50.00	-15.30	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 06	Phase	Neutral
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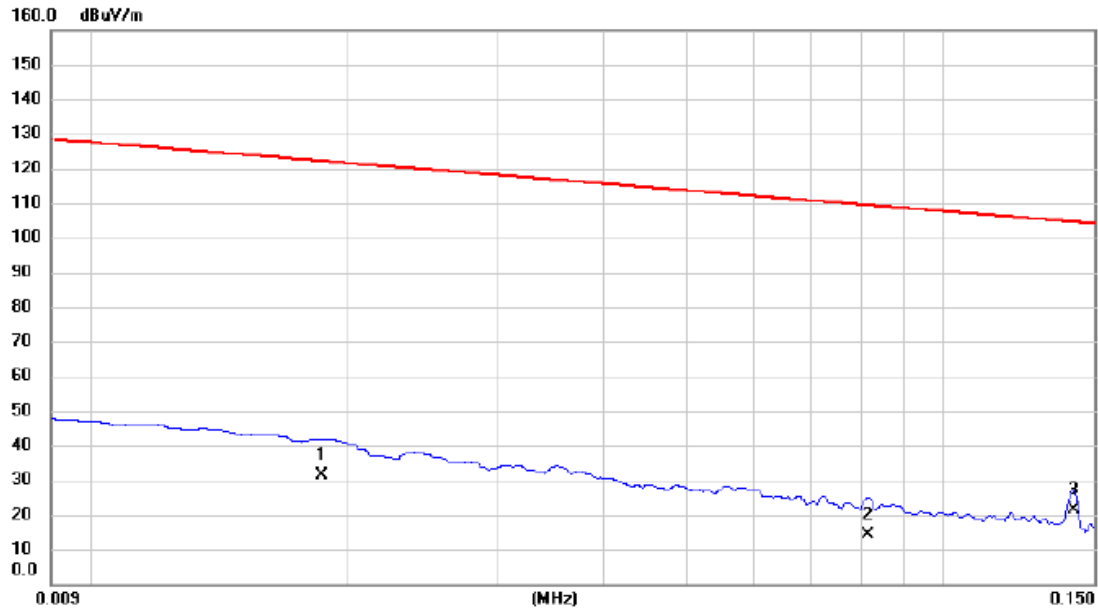
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.5730	30.40	9.81	40.21	56.00	-15.79	QP	
2	0.5730	22.40	9.81	32.21	46.00	-13.79	AVG	
3	1.1490	28.49	9.87	38.36	56.00	-17.64	QP	
4	1.1490	20.50	9.87	30.37	46.00	-15.63	AVG	
5	1.7250	30.69	9.90	40.59	56.00	-15.41	QP	
6	1.7250	21.60	9.90	31.50	46.00	-14.50	AVG	
7	2.3055	30.62	9.94	40.56	56.00	-15.44	QP	
8 *	2.3055	22.51	9.94	32.45	46.00	-13.55	AVG	
9	2.8725	27.07	9.99	37.06	56.00	-18.94	QP	
10	2.8725	18.60	9.99	28.59	46.00	-17.41	AVG	
11	17.8575	30.10	10.74	40.84	60.00	-19.16	QP	
12	17.8575	22.40	10.74	33.14	50.00	-16.86	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 N(HT20) Mode Channel 06	Polarization	Ant 0°
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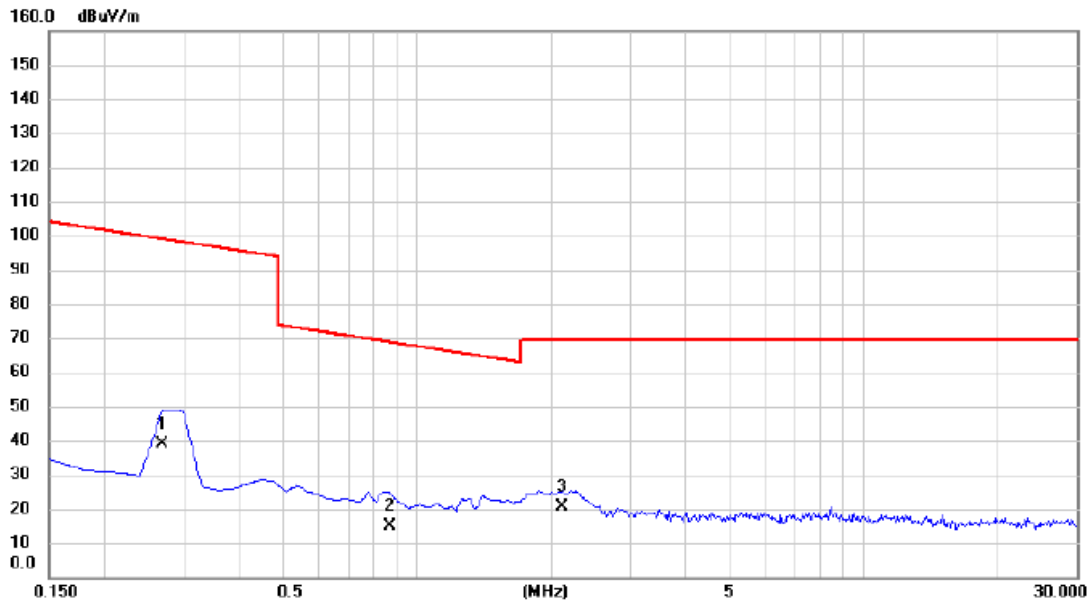


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0187	68.35	-36.81	31.54	122.17	-90.63	AVG	
2		0.0815	52.14	-37.86	14.28	109.38	-95.10	AVG	
3	*	0.1420	59.36	-37.83	21.53	104.56	-83.03	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 0°
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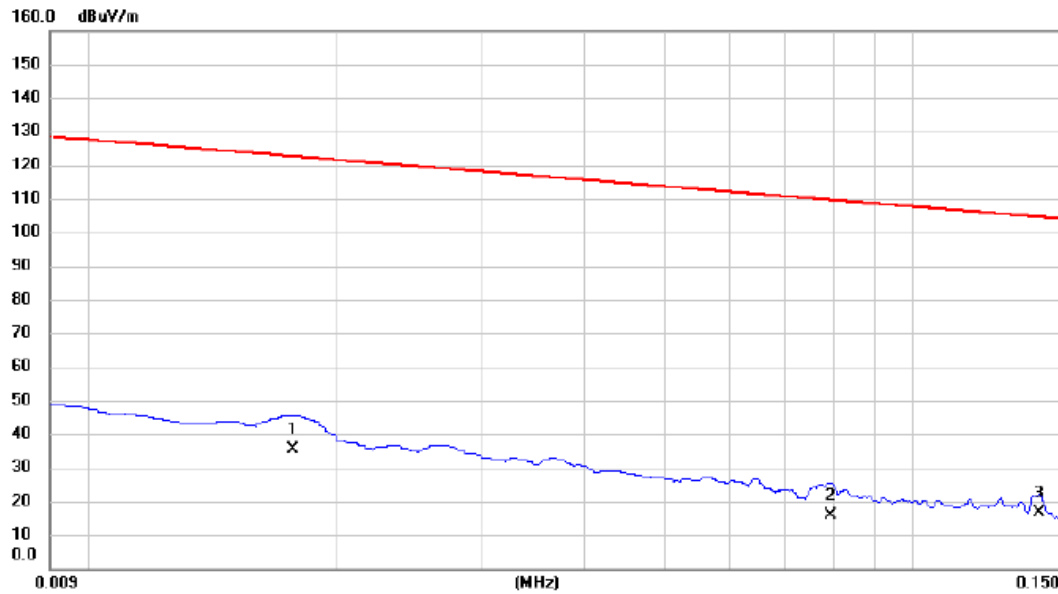
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2694	77.03	-37.95	39.08	99.00	-59.92	AVG	
2		0.8664	53.49	-38.61	14.88	68.85	-53.97	QP	
3	*	2.1201	60.11	-39.62	20.49	69.54	-49.05	QP	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 90°
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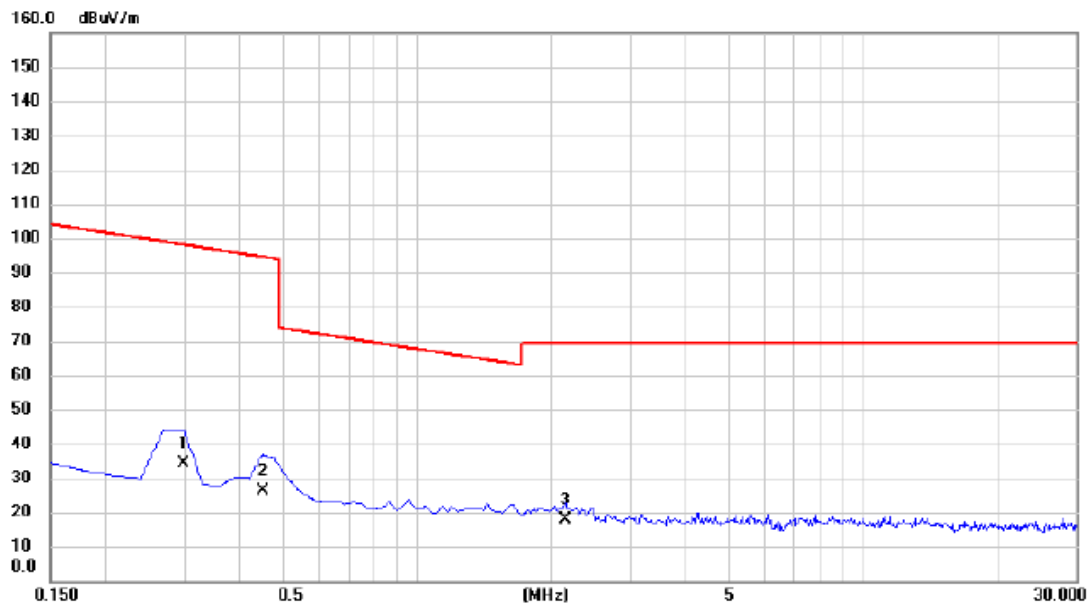


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0177	71.89	-36.50	35.39	122.65	-87.26	AVG	
2		0.0793	53.47	-37.86	15.61	109.62	-94.01	AVG	
3		0.1421	54.39	-37.83	16.56	104.56	-88.00	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 90°
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No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2993	72.14	-37.98	34.16	98.08	-63.92	AVG	
2	0.4485	64.39	-38.15	26.24	94.57	-68.33	AVG	
3 *	2.1500	57.47	-39.63	17.84	69.54	-51.70	QP	

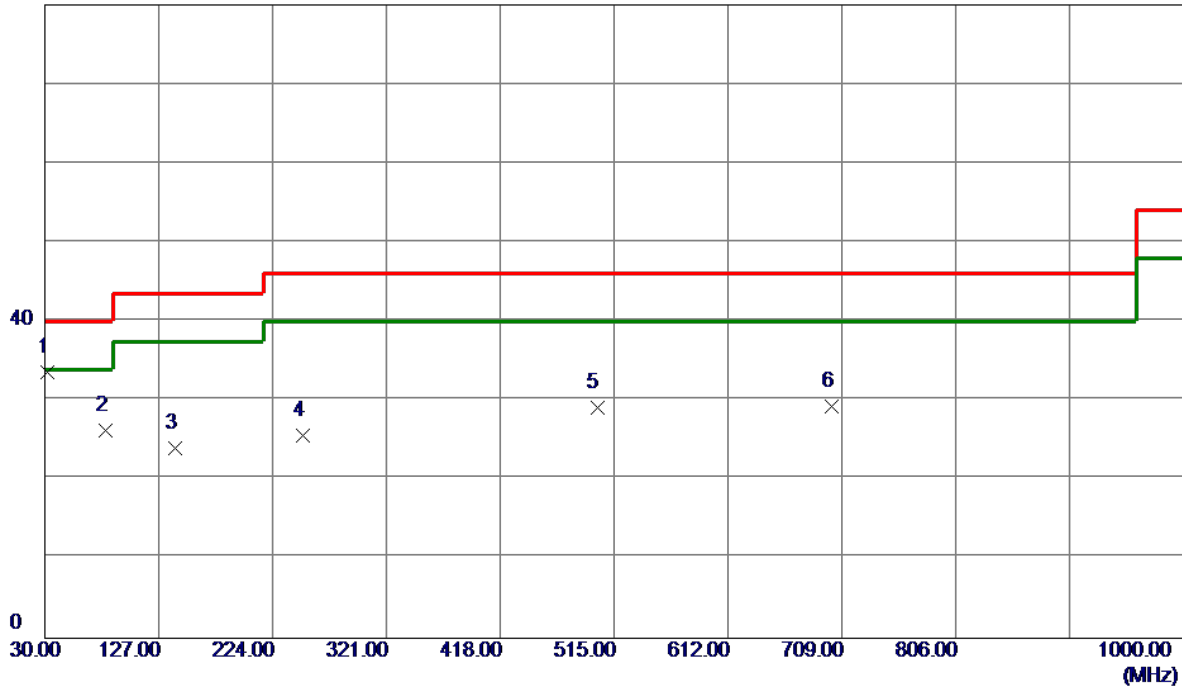
REMARKS:

- (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 N(HT20) Mode Channel 06	Polarization	Vertical
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80 dBuV/m



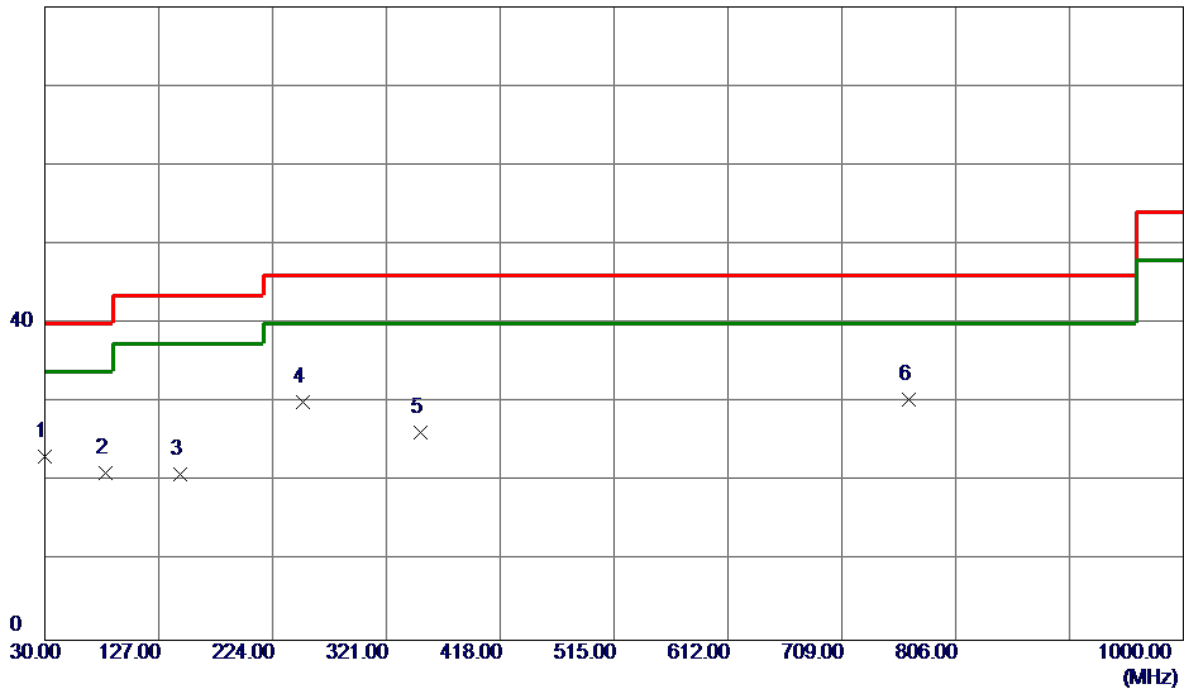
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	31.9400	49.39	-15.74	33.65	40.00	-6.35	Peak	
2	81.4100	44.76	-18.56	26.20	40.00	-13.80	Peak	
3	140.5800	36.97	-13.02	23.95	43.50	-19.55	Peak	
4	250.1900	38.84	-13.17	25.67	46.00	-20.33	Peak	
5	500.4500	36.04	-6.86	29.18	46.00	-16.82	Peak	
6	700.2700	32.16	-2.95	29.21	46.00	-16.79	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Horizontal
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80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	30.0000	39.23	-16.07	23.16	40.00	-16.84	Peak	
2	81.4100	39.75	-18.56	21.19	40.00	-18.81	Peak	
3	145.4299	33.76	-12.86	20.90	43.50	-22.60	Peak	
4	250.1900	43.25	-13.17	30.08	46.00	-15.92	Peak	
5	350.1000	36.47	-10.22	26.25	46.00	-19.75	Peak	
6 *	766.2300	32.10	-1.70	30.40	46.00	-15.60	Peak	

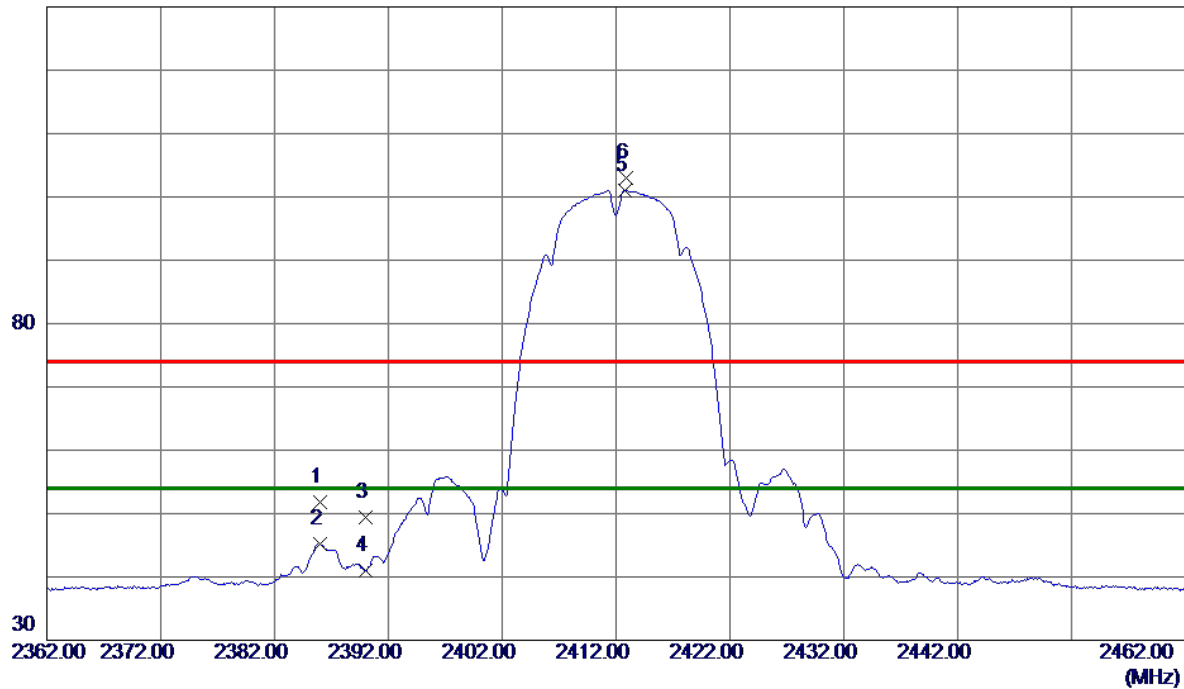
REMARKS:

- (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	Vertical
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130 dBuV/m



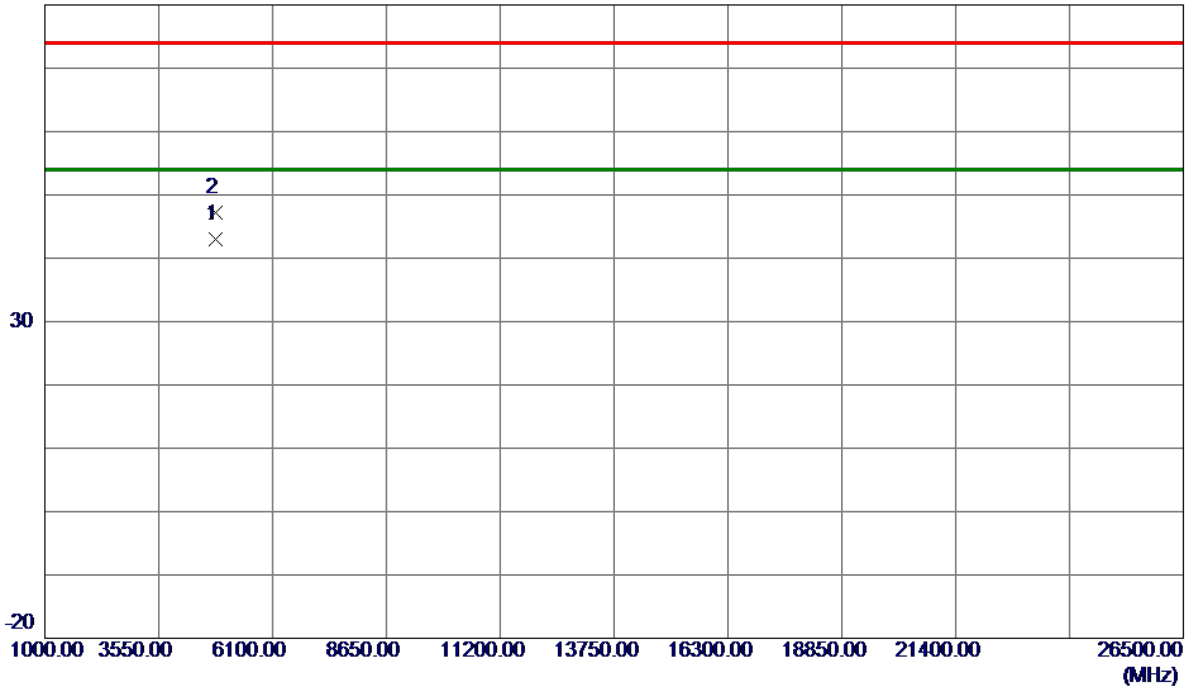
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.0000	44.64	7.17	51.81	74.00	-22.19	Peak	
2	2386.0000	38.09	7.17	45.26	54.00	-8.74	AVG	
3	2390.0000	42.23	7.17	49.40	74.00	-24.60	Peak	
4	2390.0000	33.86	7.17	41.03	54.00	-12.97	AVG	
5 *	2412.8000	93.88	7.17	101.05	54.00	47.05	AVG	No Limit
6	2412.9000	95.77	7.17	102.94	74.00	28.94	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	Vertical
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80 dBuV/m



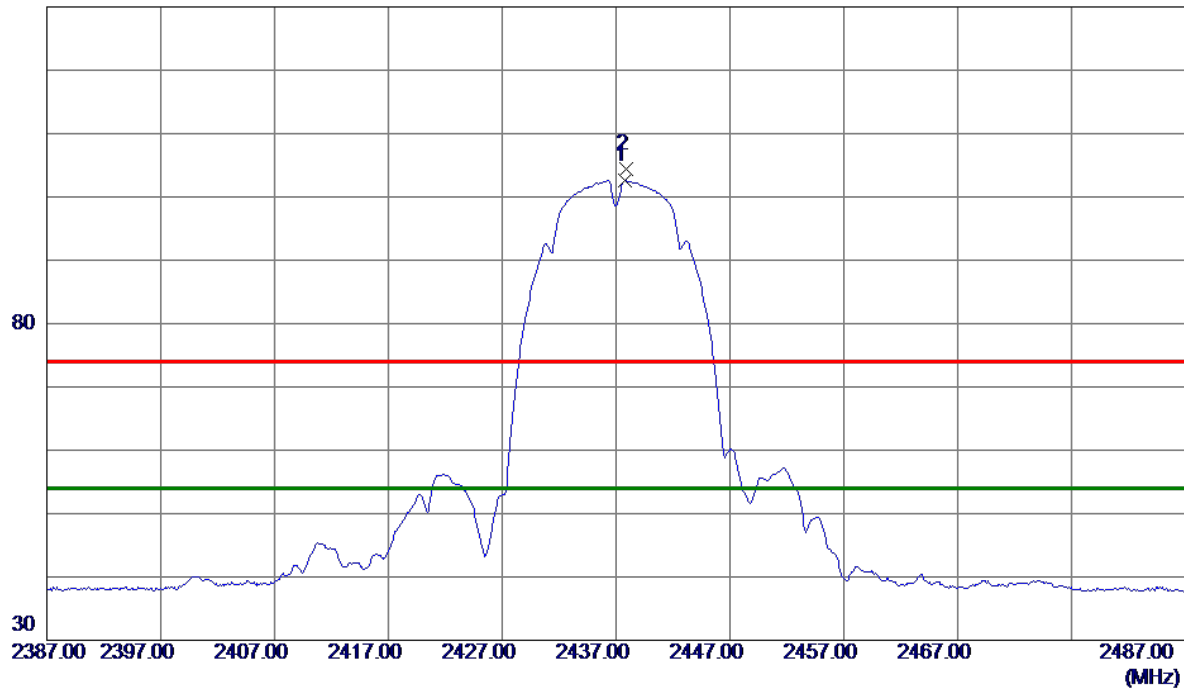
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9900	38.80	4.23	43.03	54.00	-10.97	AVG	
2	4824.0400	43.03	4.23	47.26	74.00	-26.74	Peak	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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130 dBuV/m



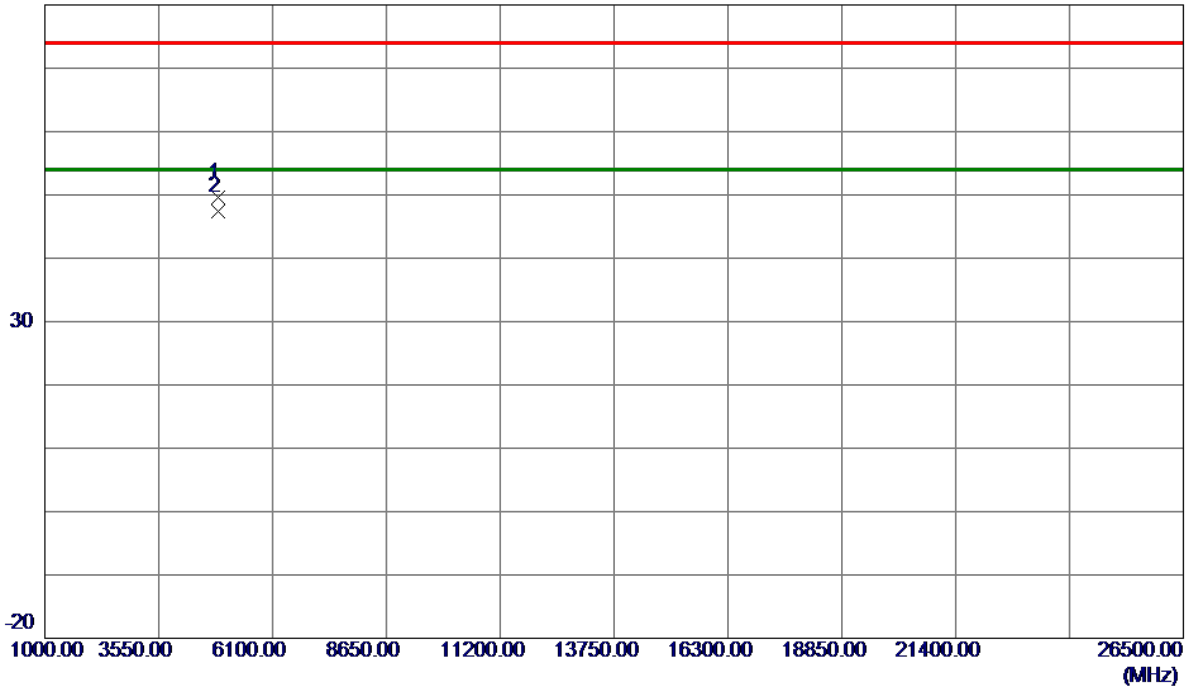
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2437.8000	95.38	7.18	102.56	54.00	48.56	AVG	No Limit
2	2437.9000	97.29	7.18	104.47	74.00	30.47	Peak	No Limit

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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80 dBuV/m



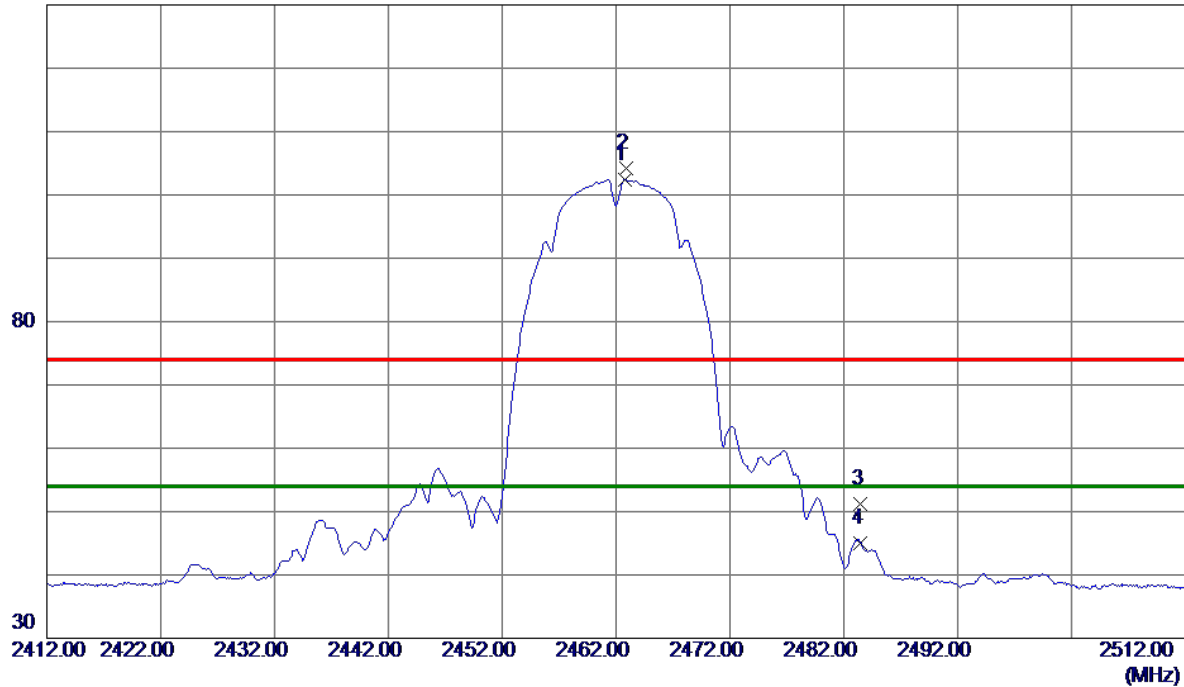
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.8900	45.26	4.38	49.64	74.00	-24.36	Peak	
2 *	4873.9800	42.98	4.38	47.36	54.00	-6.64	AVG	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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130 dBuV/m



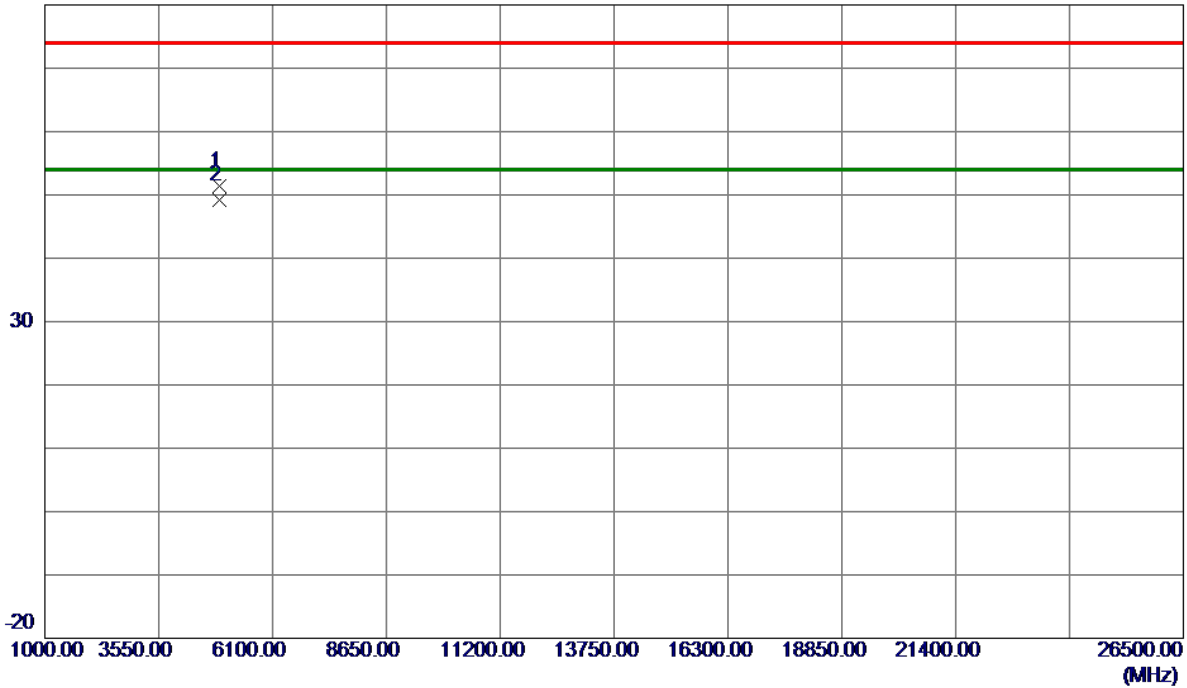
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2462.8000	95.22	7.19	102.41	54.00	48.41	AVG	No Limit
2	2462.9000	97.10	7.19	104.29	74.00	30.29	Peak	No Limit
3	2483.5000	44.00	7.19	51.19	74.00	-22.81	Peak	
4	2483.5000	37.78	7.19	44.97	54.00	-9.03	AVG	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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80 dBuV/m



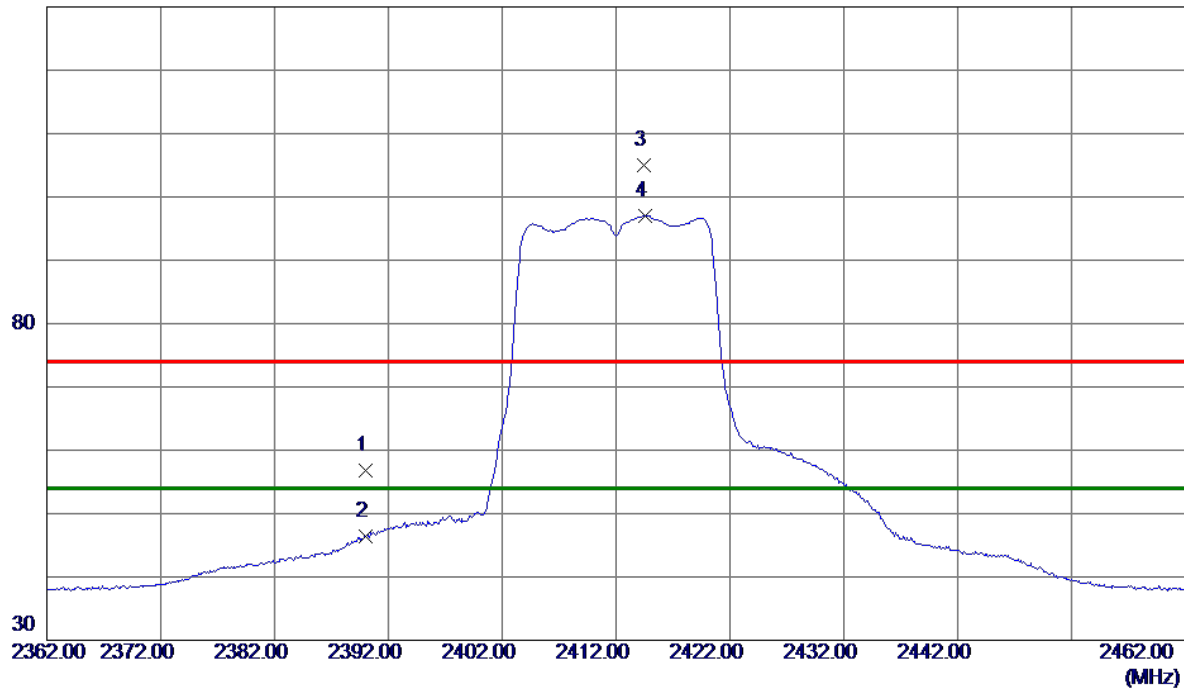
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9500	46.89	4.52	51.41	74.00	-22.59	Peak	
2 *	4924.0099	44.75	4.52	49.27	54.00	-4.73	AVG	

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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130 dBuV/m



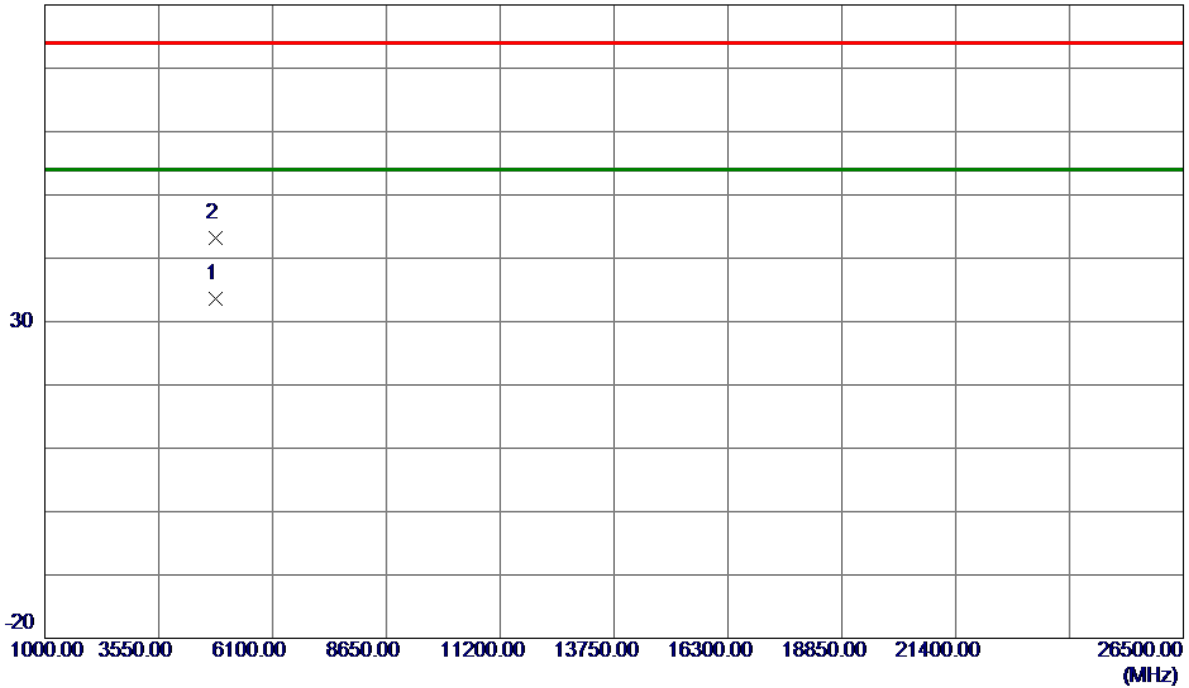
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	49.60	7.17	56.77	74.00	-17.23	Peak	
2	2390.0000	39.24	7.17	46.41	54.00	-7.59	AVG	
3	2414.4000	97.76	7.17	104.93	74.00	30.93	Peak	No Limit
4 *	2414.6000	89.89	7.17	97.06	54.00	43.06	AVG	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	Vertical
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80 dBuV/m



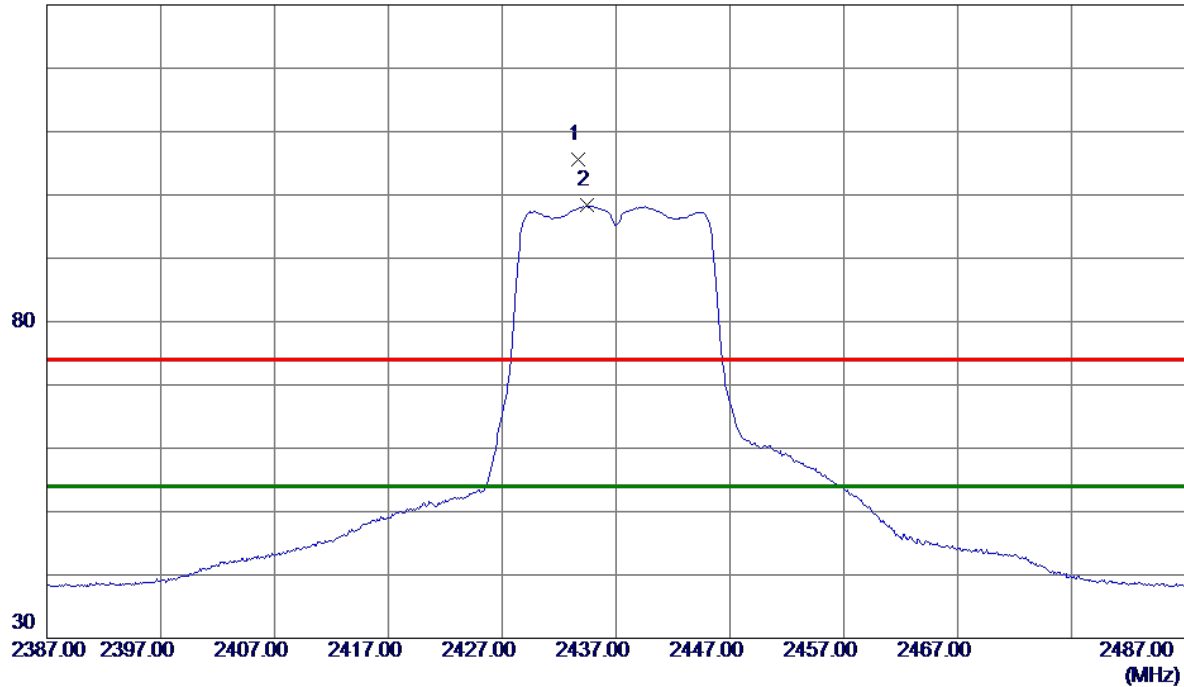
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4819.7599	29.48	4.21	33.69	54.00	-20.31	AVG	
2	4826.8600	38.97	4.24	43.21	74.00	-30.79	Peak	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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130 dBuV/m



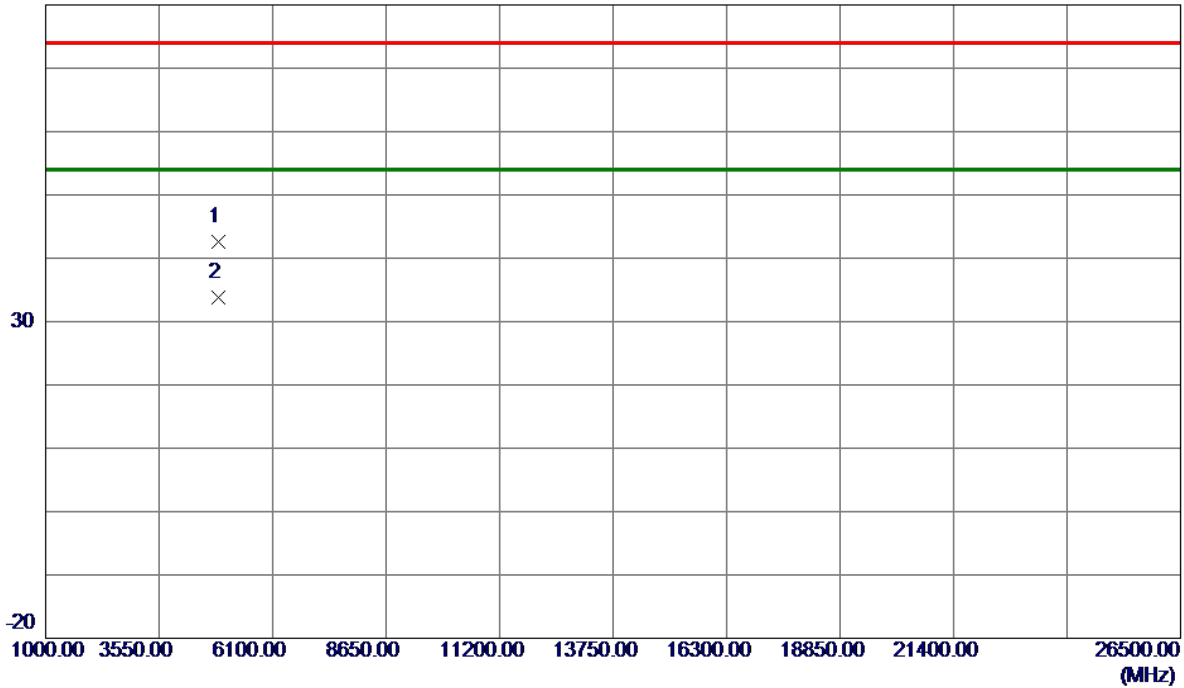
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2433.7000	98.46	7.18	105.64	74.00	31.64	Peak	No Limit
2 *	2434.4000	91.13	7.18	98.31	54.00	44.31	AVG	No Limit

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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80 dBuV/m



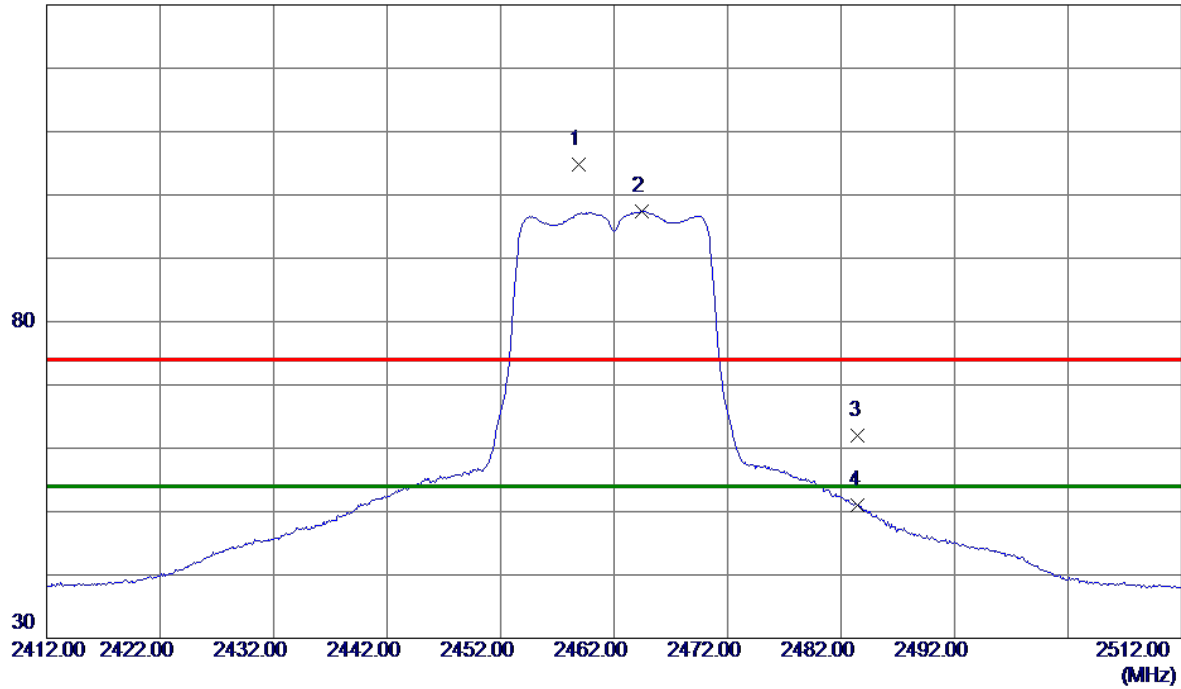
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4869.5500	38.22	4.36	42.58	74.00	-31.42	Peak	
2 *	4870.5299	29.47	4.37	33.84	54.00	-20.16	AVG	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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130 dBuV/m



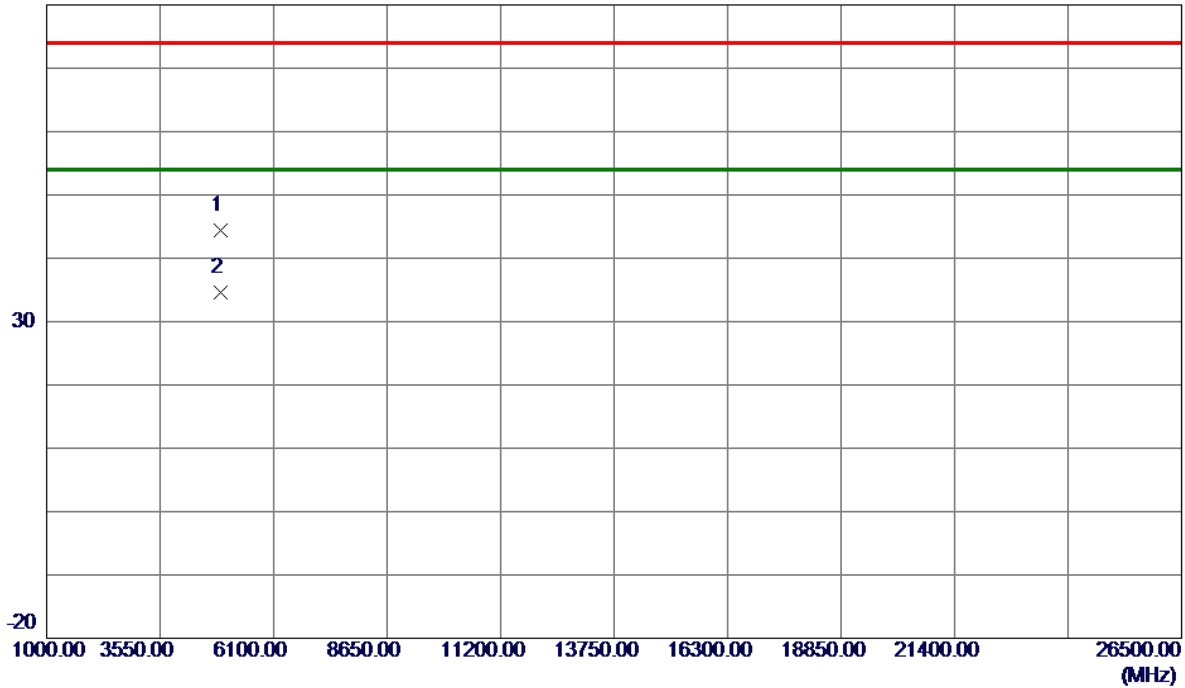
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2458.9000	97.60	7.18	104.78	74.00	30.78	Peak	No Limit
2 *	2464.4000	90.17	7.19	97.36	54.00	43.36	AVG	No Limit
3	2483.5000	54.89	7.19	62.08	74.00	-11.92	Peak	
4	2483.5000	43.74	7.19	50.93	54.00	-3.07	AVG	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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80 dBuV/m



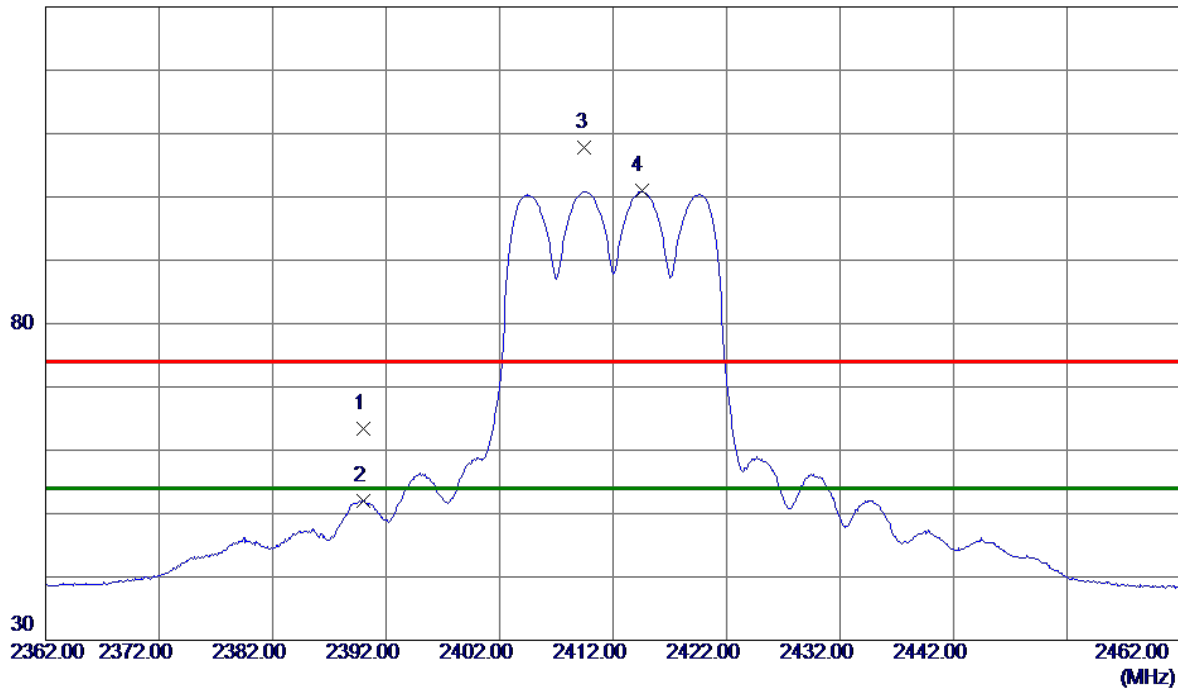
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.0000	39.83	4.52	44.35	74.00	-29.65	Peak	
2 *	4924.1500	30.14	4.52	34.66	54.00	-19.34	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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130 dBuV/m



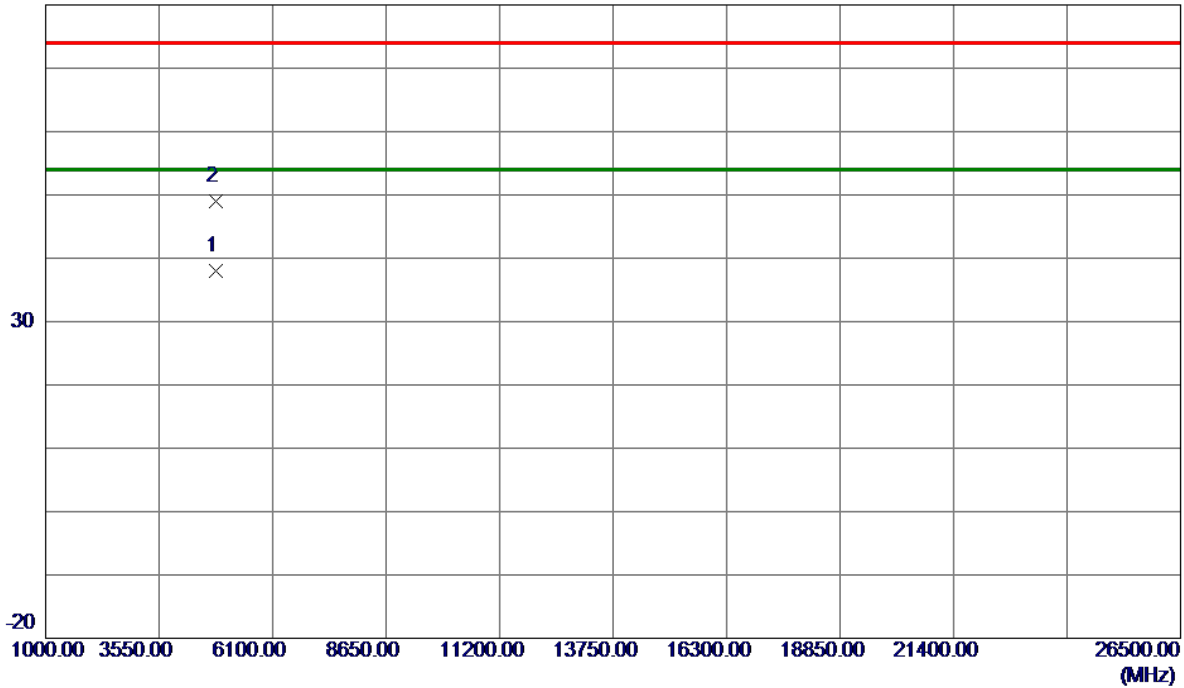
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	56.18	7.17	63.35	74.00	-10.65	Peak	
2	2390.0000	44.81	7.17	51.98	54.00	-2.02	AVG	
3	2409.5000	100.60	7.17	107.77	74.00	33.77	Peak	No Limit
4 *	2414.5000	93.73	7.17	100.90	54.00	46.90	AVG	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	Vertical
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80 dBuV/m



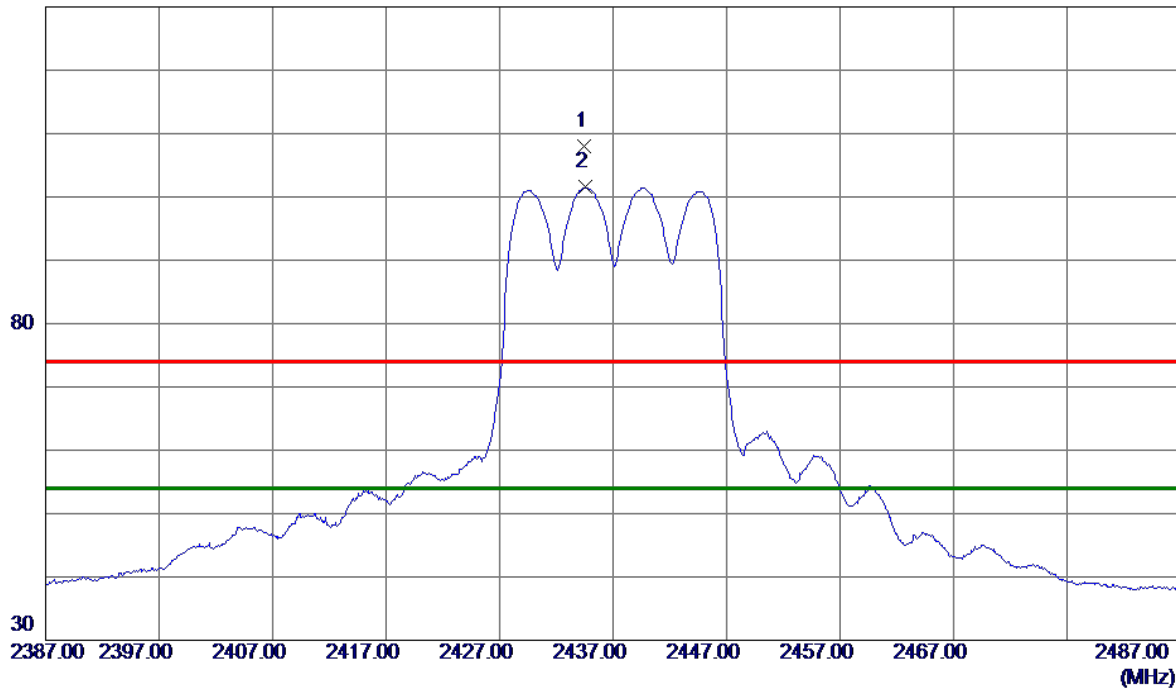
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.3000	33.74	4.23	37.97	54.00	-16.03	AVG	
2	4828.3500	44.73	4.24	48.97	74.00	-25.03	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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130 dBuV/m



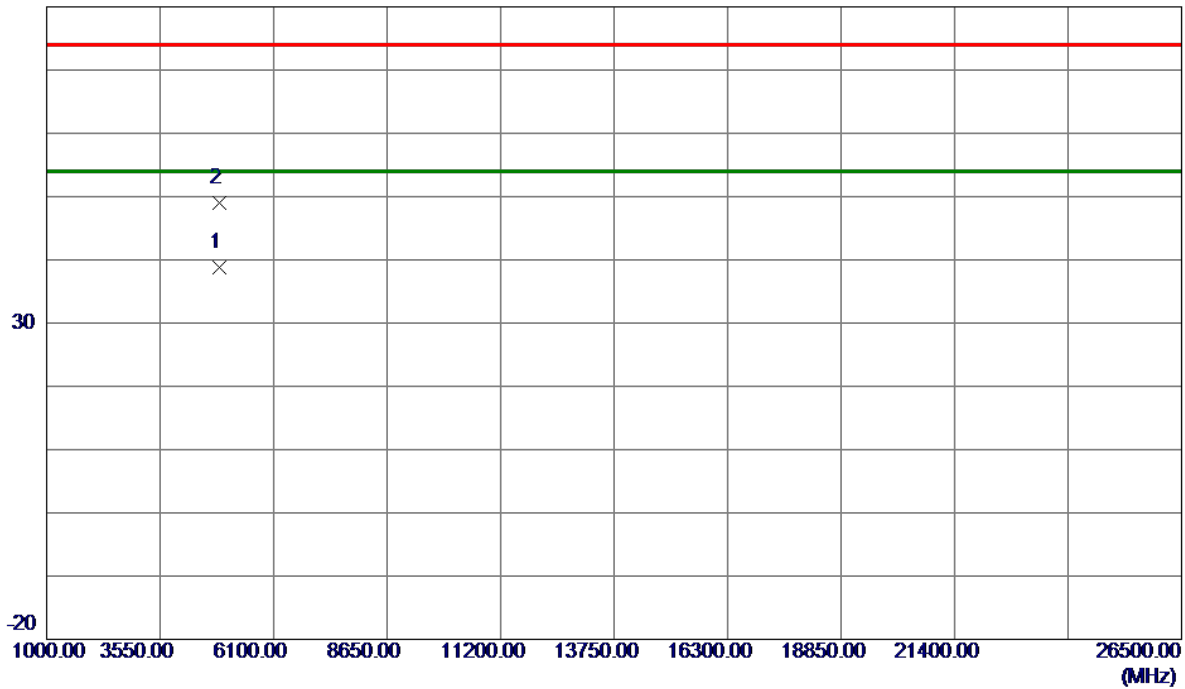
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2434.5000	100.88	7.18	108.06	74.00	34.06	Peak	No Limit
2 *	2434.6000	94.35	7.18	101.53	54.00	47.53	AVG	No Limit

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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80 dBuV/m



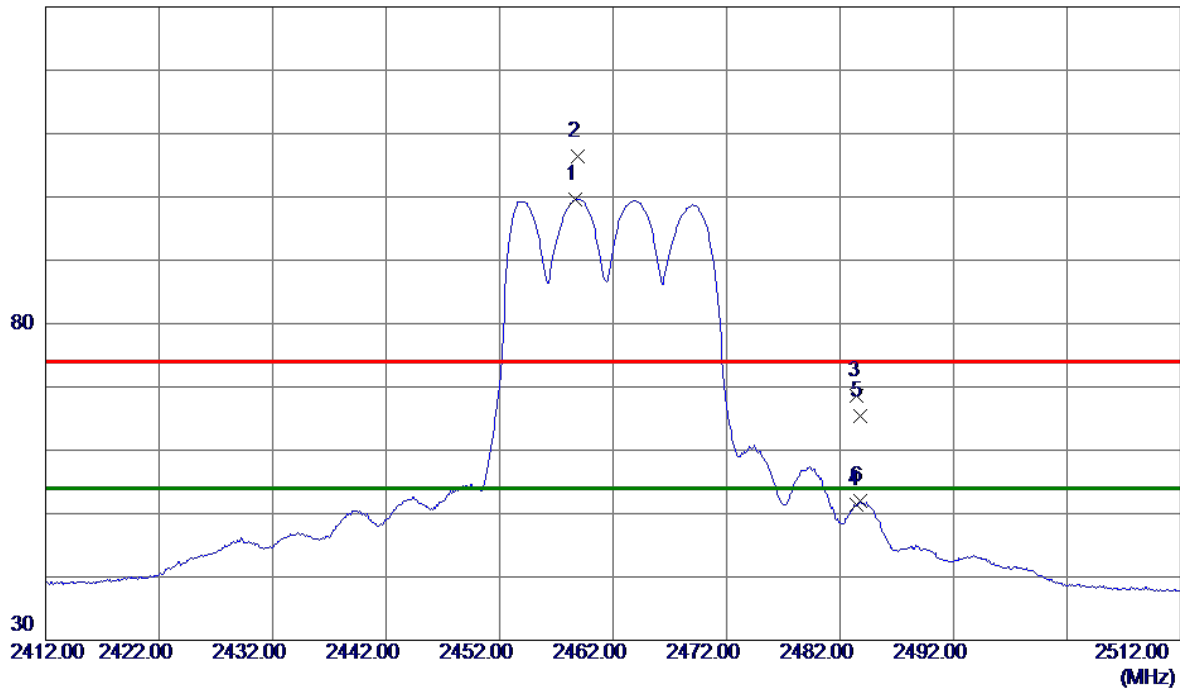
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.8000	34.39	4.38	38.77	54.00	-15.23	AVG	
2	4885.7500	44.62	4.41	49.03	74.00	-24.97	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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130 dBuV/m



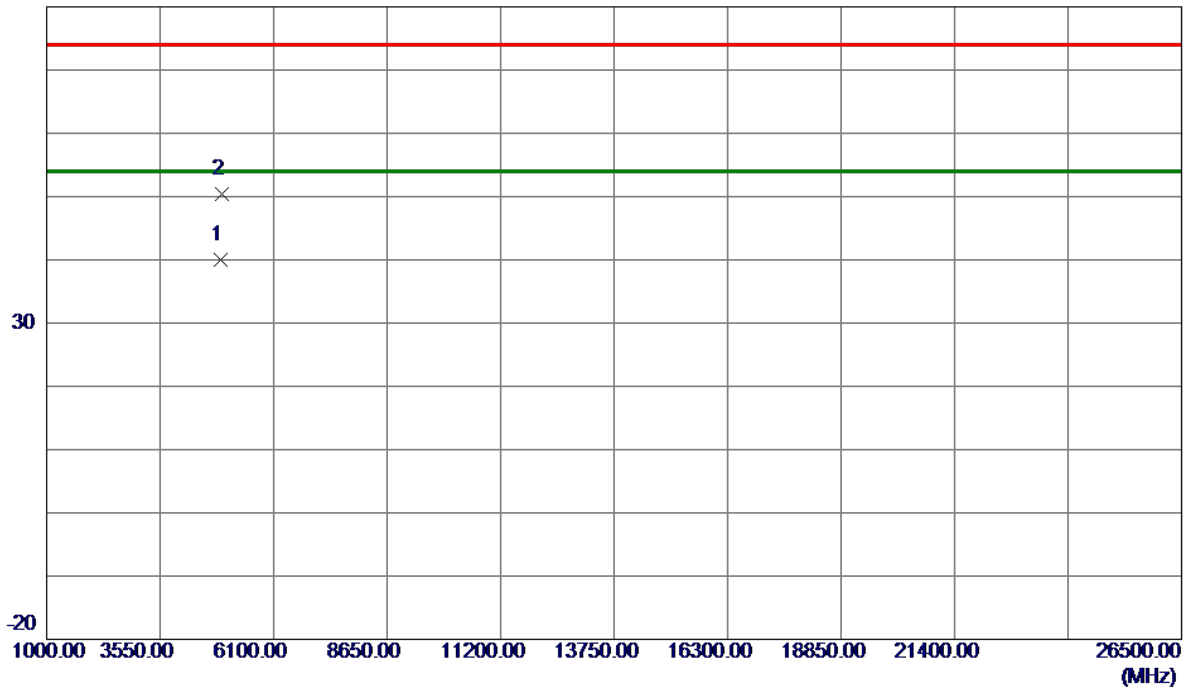
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2458.7000	92.46	7.18	99.64	54.00	45.64	AVG	No Limit
2	2458.9000	99.15	7.18	106.33	74.00	32.33	Peak	No Limit
3	2483.5000	61.39	7.19	68.58	74.00	-5.42	Peak	
4	2483.5000	44.30	7.19	51.49	54.00	-2.51	AVG	
5	2483.8000	58.17	7.19	65.36	74.00	-8.64	Peak	
6	2483.8000	44.75	7.19	51.94	54.00	-2.06	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	Vertical
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80 dBuV/m

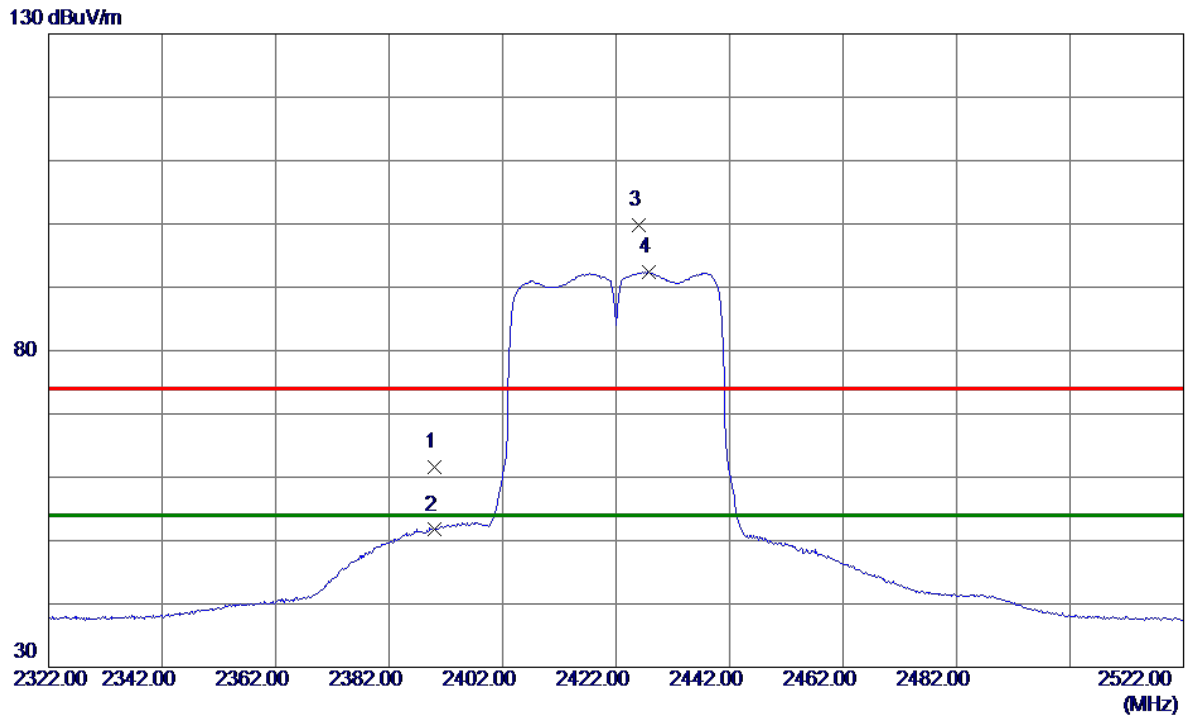


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0000	35.47	4.52	39.99	54.00	-14.01	AVG	
2	4925.8500	45.79	4.53	50.32	74.00	-23.68	Peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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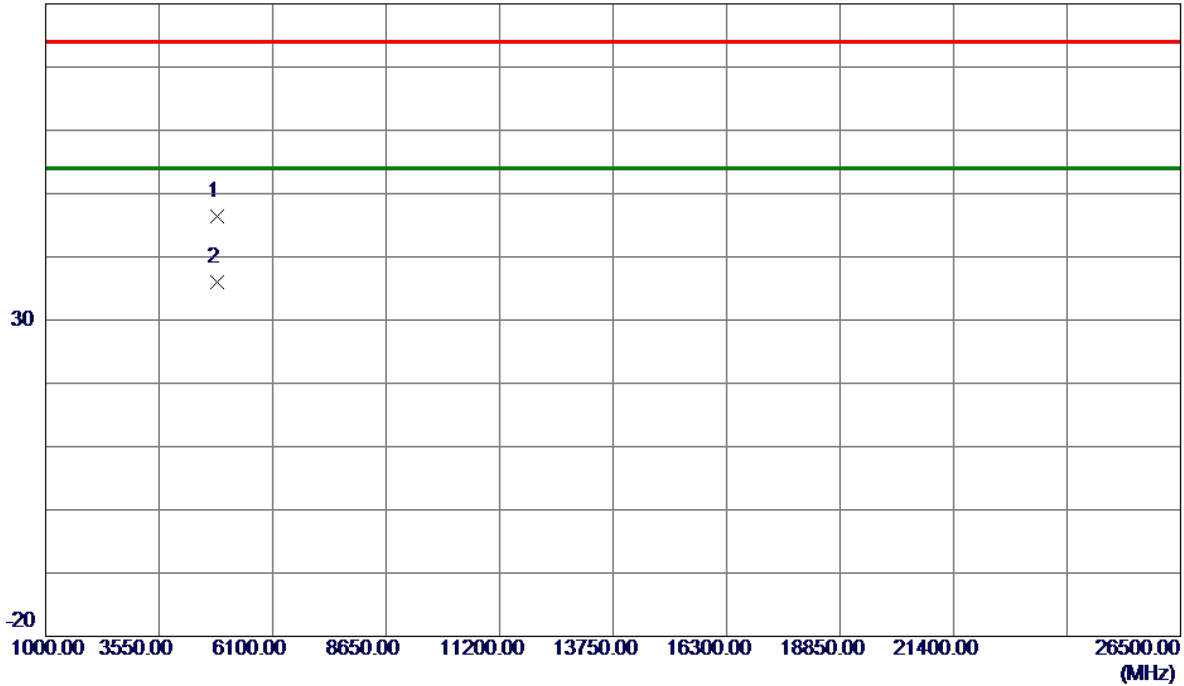
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	54.51	7.17	61.68	74.00	-12.32	Peak	
2	2390.0000	44.53	7.17	51.70	54.00	-2.30	AVG	
3	2426.0000	92.57	7.18	99.75	74.00	25.75	Peak	No Limit
4 *	2427.8000	85.29	7.18	92.47	54.00	38.47	AVG	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	Vertical
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80 dBuV/m



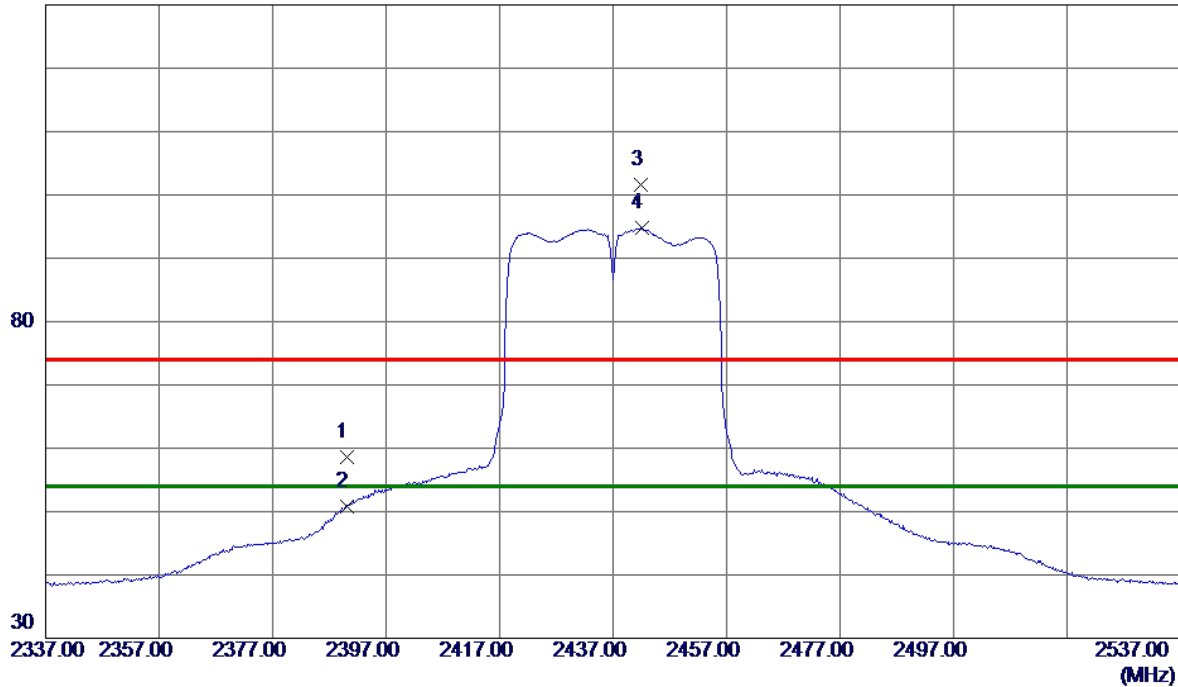
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4841.0500	42.04	4.28	46.32	74.00	-27.68	Peak	
2 *	4843.2500	31.75	4.28	36.03	54.00	-17.97	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
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130 dBuV/m



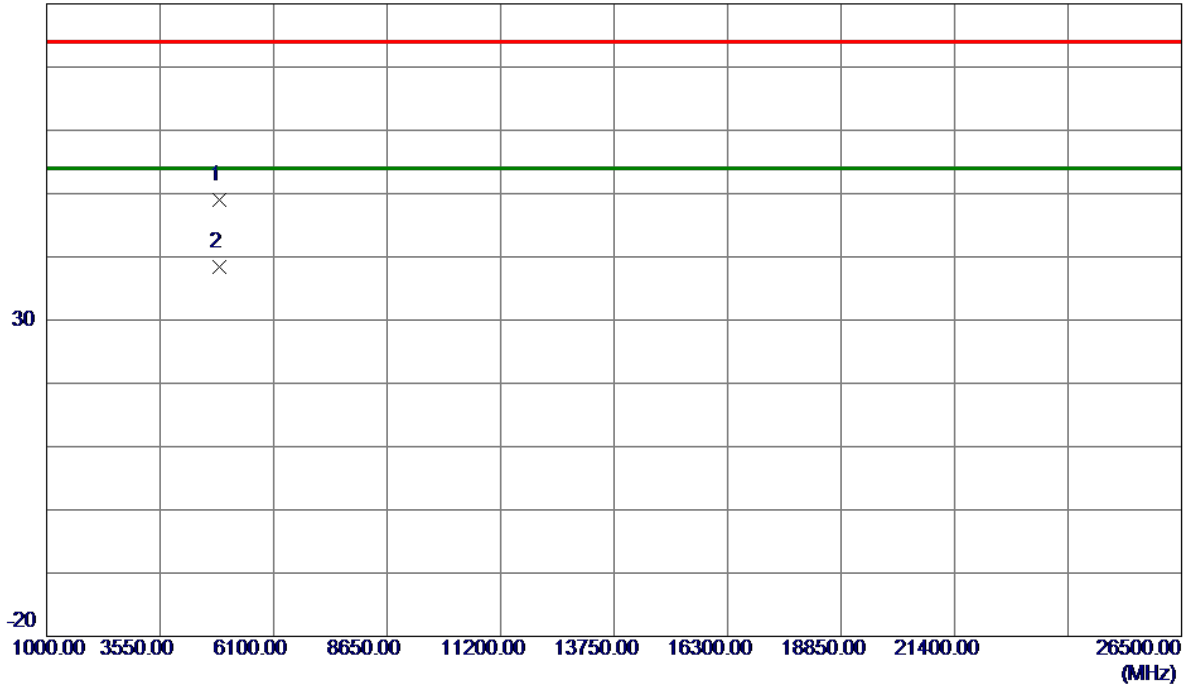
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	51.51	7.17	58.68	74.00	-15.32	Peak	
2	2390.0000	43.62	7.17	50.79	54.00	-3.21	AVG	
3	2441.8000	94.39	7.18	101.57	74.00	27.57	Peak	No Limit
4 *	2442.0000	87.54	7.18	94.72	54.00	40.72	AVG	No Limit

REMARKS:

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
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80 dBuV/m



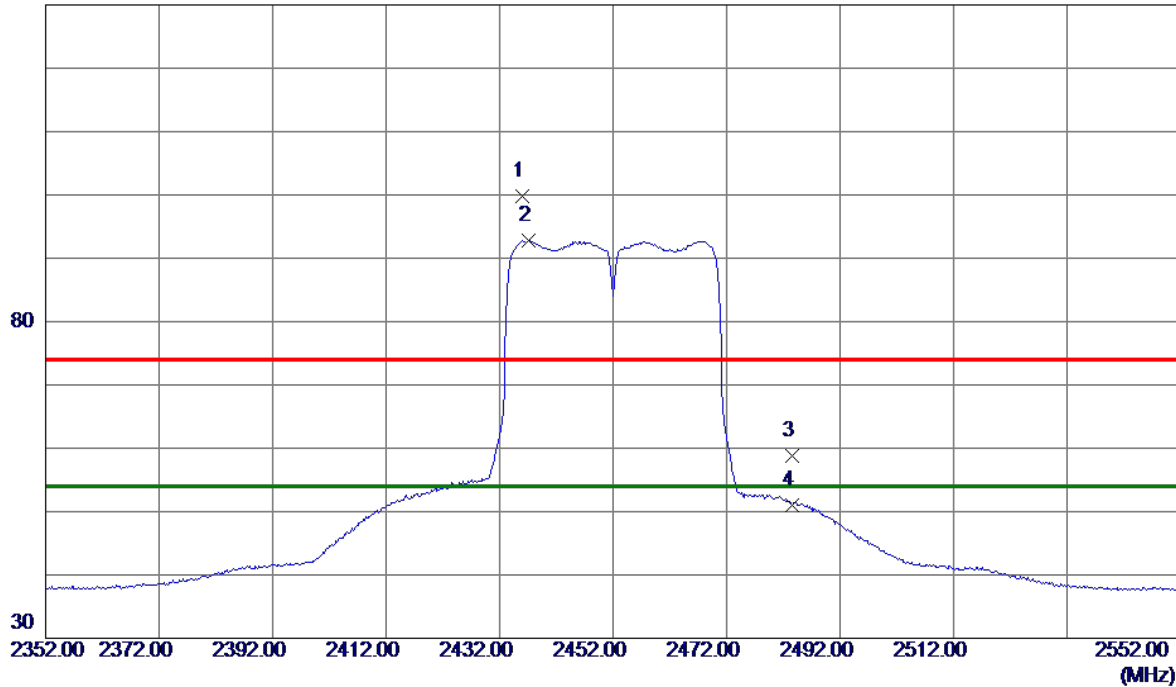
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.5500	44.57	4.37	48.94	74.00	-25.06	Peak	
2 *	4874.2000	34.09	4.38	38.47	54.00	-15.53	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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130 dBuV/m



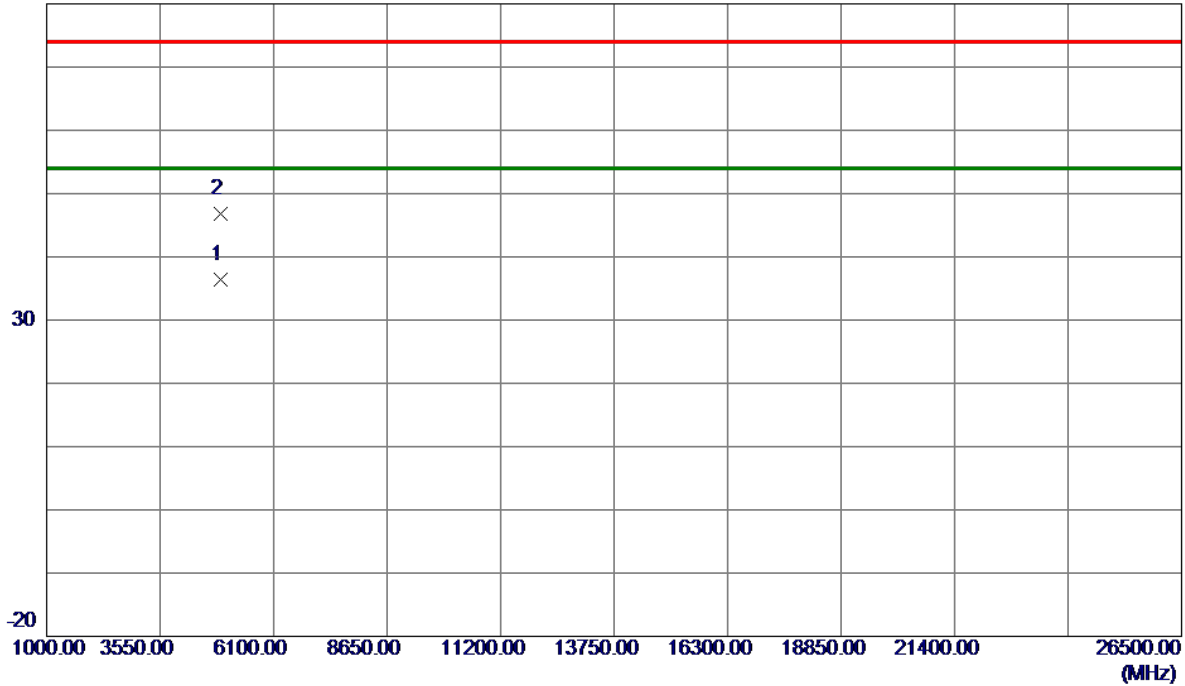
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.0000	92.66	7.18	99.84	74.00	25.84	Peak	No Limit
2 *	2437.2000	85.60	7.18	92.78	54.00	38.78	AVG	No Limit
3	2483.5000	51.68	7.19	58.87	74.00	-15.13	Peak	
4	2483.5000	43.79	7.19	50.98	54.00	-3.02	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4904.1000	31.93	4.47	36.40	54.00	-17.60	AVG	
2	4909.5500	42.34	4.48	46.82	74.00	-27.18	Peak	

REMARKS:

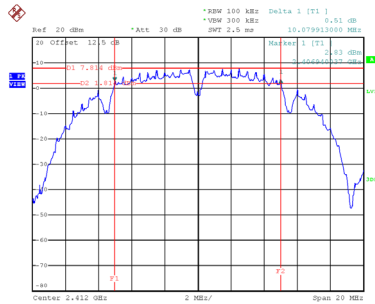
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	TX B Mode
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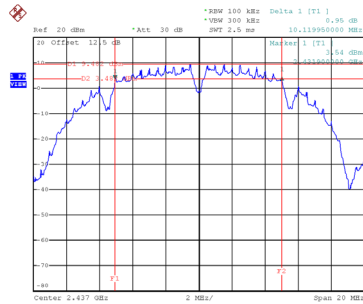
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	10.080	13.280	0.5	Complies
06	2437	10.120	13.360	0.5	Complies
11	2462	10.100	13.360	0.5	Complies

CH01



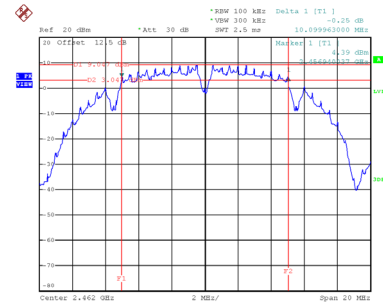
Date: 22.AUG.2022 05:43:30

CH06
6 dB Bandwidth



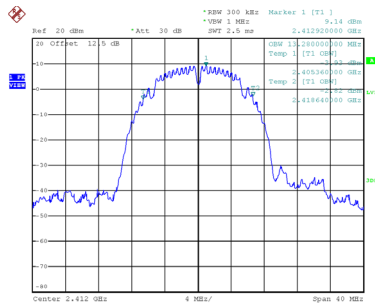
Date: 22.AUG.2022 05:46:25

CH11

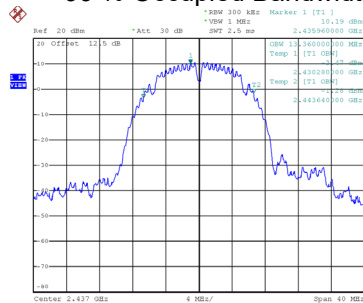


Date: 22.AUG.2022 05:48:21

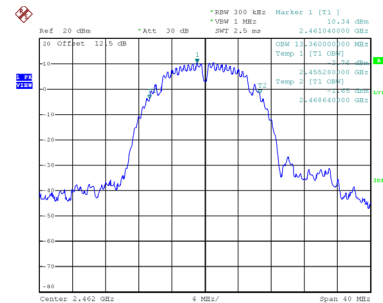
99 % Occupied Bandwidth



Date: 22.AUG.2022 05:43:37



Date: 22.AUG.2022 05:46:32

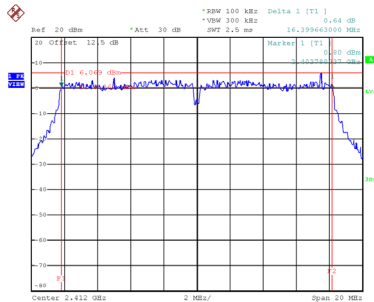


Date: 22.AUG.2022 05:48:29

Test Mode	TX G Mode
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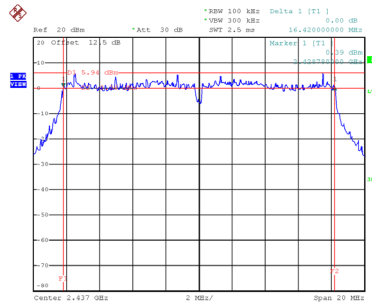
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.400	16.880	0.5	Complies
06	2437	16.420	16.800	0.5	Complies
11	2462	16.450	16.880	0.5	Complies

CH01



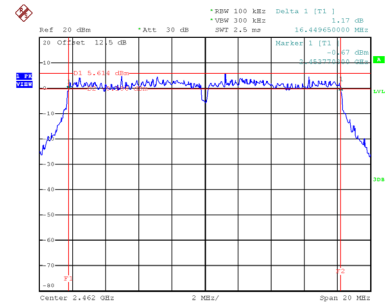
Date: 22.AUG.2022 05:50:53

CH06
6 dB Bandwidth



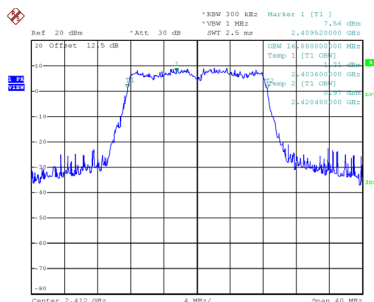
Date: 22.AUG.2022 05:52:34

CH11

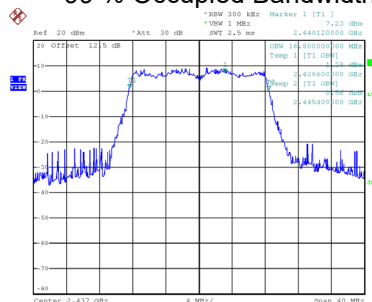


Date: 22.AUG.2022 05:55:01

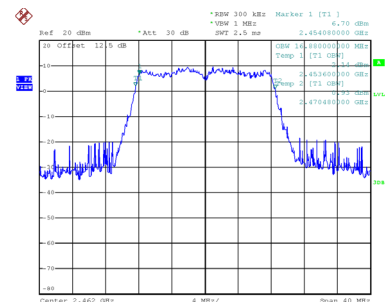
99 % Occupied Bandwidth



Date: 22.AUG.2022 05:51:00



Date: 22.AUG.2022 05:52:41

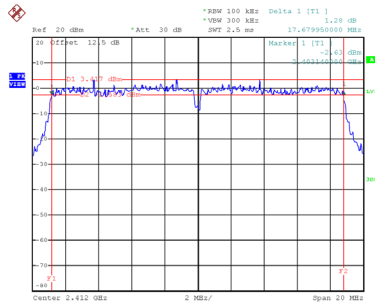


Date: 22.AUG.2022 05:55:08

Test Mode	TX N(HT20) Mode
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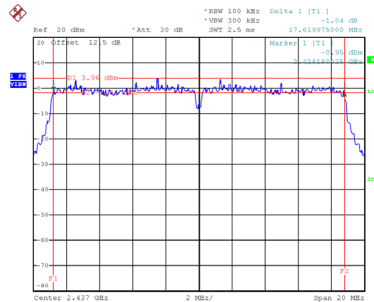
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.680	17.760	0.5	Complies
06	2437	17.620	17.840	0.5	Complies
11	2462	17.620	17.760	0.5	Complies

CH01



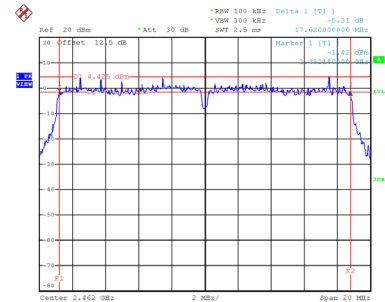
Date: 22.AUG.2022 06:03:38

CH06
6 dB Bandwidth



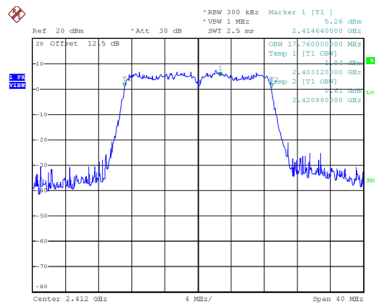
Date: 22.AUG.2022 06:05:12

CH11

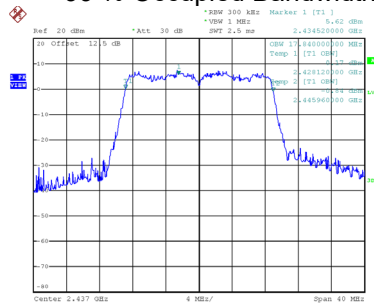


Date: 22.AUG.2022 06:06:51

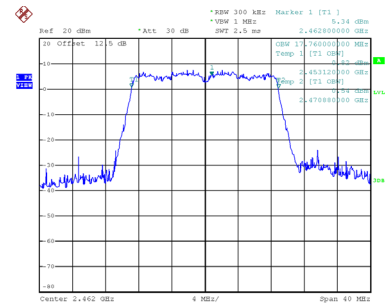
99 % Occupied Bandwidth



Date: 22.AUG.2022 06:03:46



Date: 22.AUG.2022 06:05:20

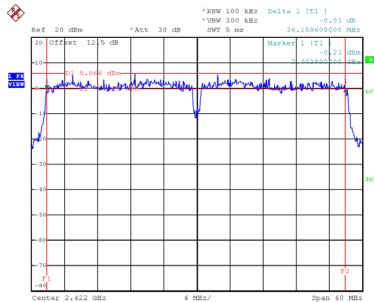


Date: 22.AUG.2022 06:06:58

Test Mode	TX N(HT40) Mode
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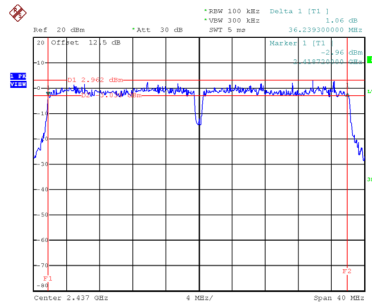
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	36.160	37.120	0.5	Complies
06	2437	36.239	36.640	0.5	Complies
09	2452	35.759	36.800	0.5	Complies

CH03



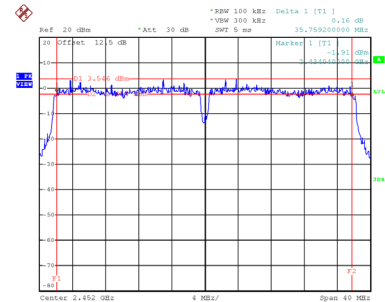
Date: 22.AUG.2022 06:10:03

CH06
6 dB Bandwidth



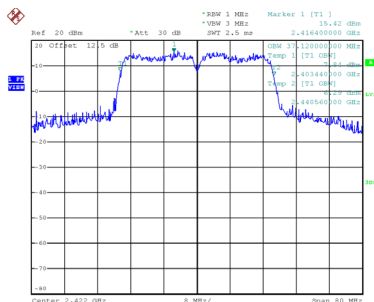
Date: 22.AUG.2022 07:39:14

CH09

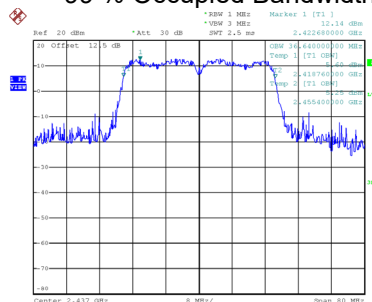


Date: 22.AUG.2022 07:40:55

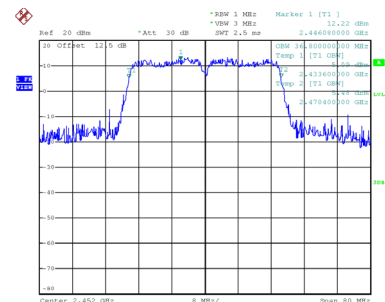
99 % Occupied Bandwidth



Date: 22.AUG.2022 06:10:10



Date: 22.AUG.2022 07:39:20



Date: 22.AUG.2022 07:41:02

APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode_Ant.1
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Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.38	30.00	1.0000	Complies
06	2437	21.28	30.00	1.0000	Complies
11	2462	22.09	30.00	1.0000	Complies

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.62	0.00	15.62	30.00	1.0000	Complies
06	2437	15.87	0.00	15.87	30.00	1.0000	Complies
11	2462	16.23	0.00	16.23	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant.1
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Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	26.61	30.00	1.0000	Complies
06	2437	26.55	30.00	1.0000	Complies
11	2462	25.87	30.00	1.0000	Complies

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.03	0.00	14.03	30.00	1.0000	Complies
06	2437	14.02	0.00	14.02	30.00	1.0000	Complies
11	2462	13.87	0.00	13.87	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.72	30.00	1.0000	Complies
06	2437	25.76	30.00	1.0000	Complies
11	2462	25.23	30.00	1.0000	Complies

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	11.74	0.00	11.74	30.00	1.0000	Complies
06	2437	11.64	0.00	11.64	30.00	1.0000	Complies
11	2462	11.81	0.00	11.81	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 2
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Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.66	30.00	1.0000	Complies
06	2437	25.63	30.00	1.0000	Complies
11	2462	25.13	30.00	1.0000	Complies

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	11.76	0.00	11.76	30.00	1.0000	Complies
06	2437	11.82	0.00	11.82	30.00	1.0000	Complies
11	2462	11.93	0.00	11.93	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Total
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Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	28.70	30.00	1.0000	Complies
06	2437	28.71	30.00	1.0000	Complies
11	2462	28.19	30.00	1.0000	Complies

Channel	Frequency (MHz)	Average Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.76	30.00	1.0000	Complies
06	2437	14.74	30.00	1.0000	Complies
11	2462	14.88	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.97	30.00	1.0000	Complies
06	2437	21.86	30.00	1.0000	Complies
09	2452	18.54	30.00	1.0000	Complies

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	9.16	0.00	9.16	30.00	1.0000	Complies
06	2437	12.02	0.00	12.02	30.00	1.0000	Complies
09	2452	8.79	0.00	8.79	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 2
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Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.78	30.00	1.0000	Complies
06	2437	21.94	30.00	1.0000	Complies
09	2452	18.51	30.00	1.0000	Complies

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	8.92	0.00	8.92	30.00	1.0000	Complies
06	2437	12.11	0.00	12.11	30.00	1.0000	Complies
09	2452	8.75	0.00	8.75	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Total
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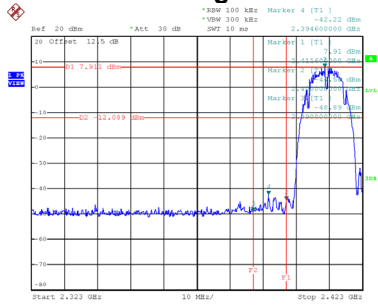
Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	21.89	30.00	1.0000	Complies
06	2437	24.91	30.00	1.0000	Complies
09	2452	21.54	30.00	1.0000	Complies

Channel	Frequency (MHz)	Average Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	12.05	30.00	1.0000	Complies
06	2437	15.08	30.00	1.0000	Complies
09	2452	11.78	30.00	1.0000	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

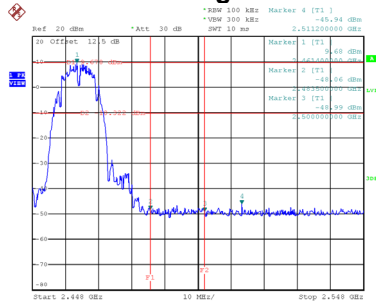
Test Mode TX B Mode_Ant.1

Bandedge-CH01



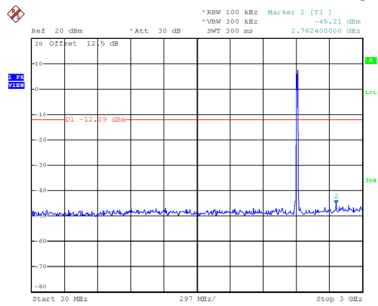
Date: 22.AUG.2022 05:43:45

Bandedge-CH11

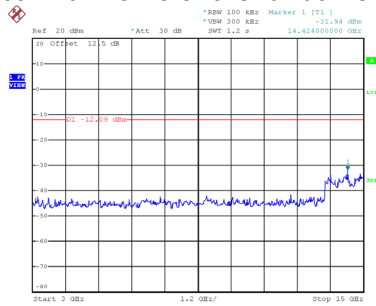


Date: 22.AUG.2022 05:48:36

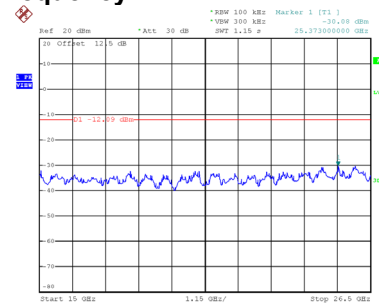
CH01 – 10th Harmonic of the fundamental frequency



Date: 22.AUG.2022 05:43:58

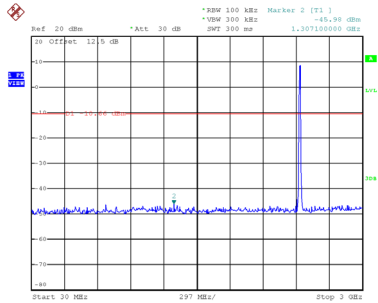


Date: 22.AUG.2022 05:44:06

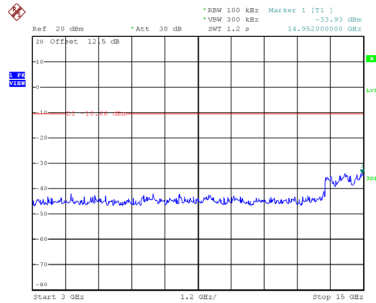


Date: 22.AUG.2022 05:44:13

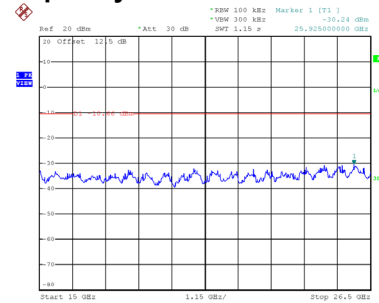
CH06 – 10th Harmonic of the fundamental frequency



Date: 22.AUG.2022 05:46:53

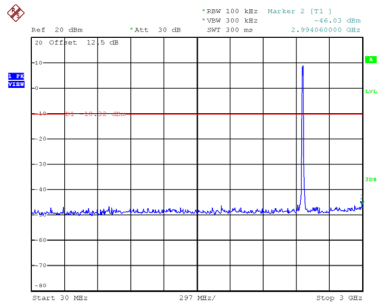


Date: 22.AUG.2022 05:47:01

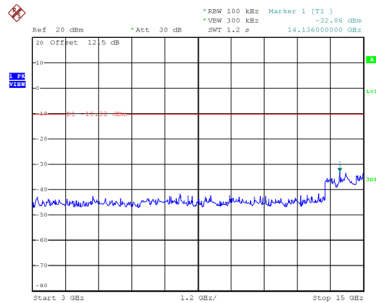


Date: 22.AUG.2022 05:47:08

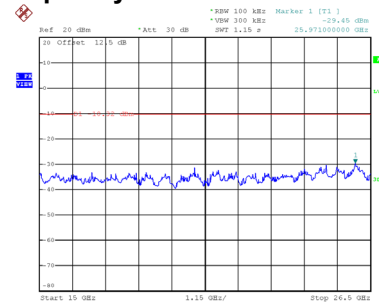
CH11 – 10th Harmonic of the fundamental frequency



Date: 22.AUG.2022 05:48:50



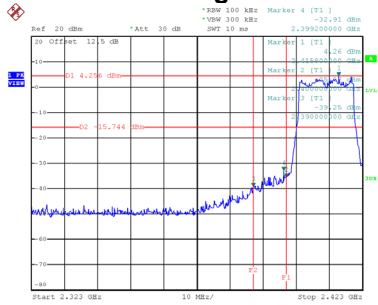
Date: 22.AUG.2022 05:48:57



Date: 22.AUG.2022 05:49:05

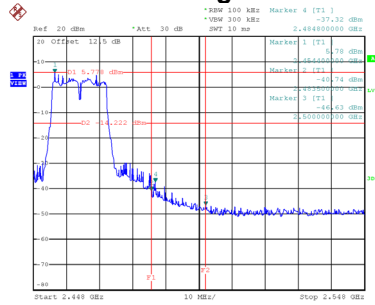
Test Mode TX G Mode_Ant.1

Bandedge-CH01



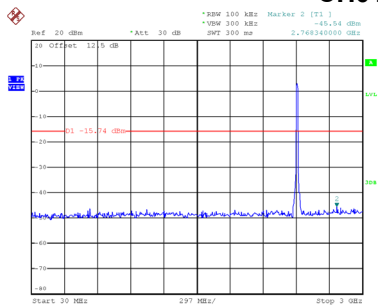
Date: 22.AUG.2022 05:51:08

Bandedge-CH11

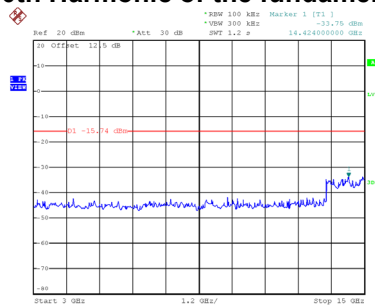


Date: 22.AUG.2022 05:51:15

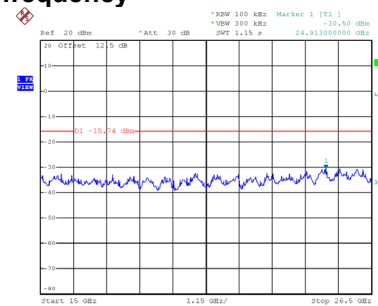
CH01 – 10th Harmonic of the fundamental frequency



Date: 22.AUG.2022 05:51:21

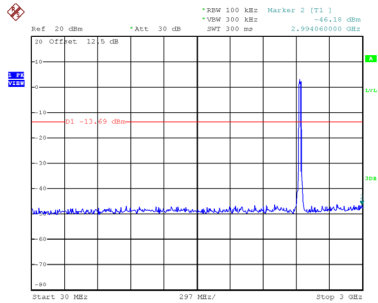


Date: 22.AUG.2022 05:51:29

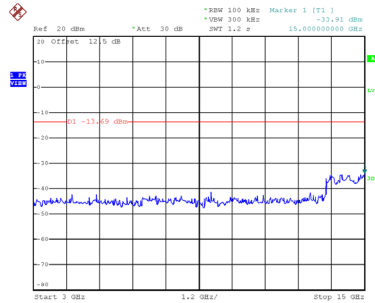


Date: 22.AUG.2022 05:51:36

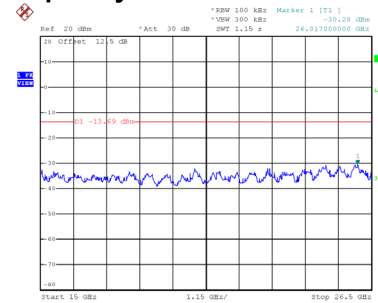
CH06 – 10th Harmonic of the fundamental frequency



Date: 22.AUG.2022 05:53:02

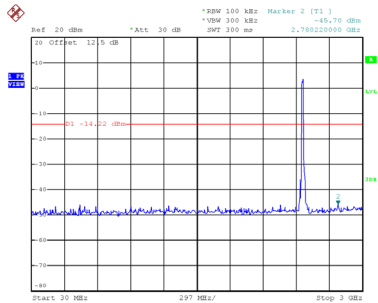


Date: 22.AUG.2022 05:53:09

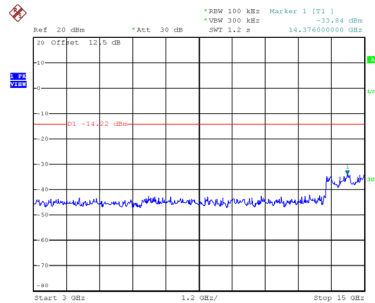


Date: 22.AUG.2022 05:53:17

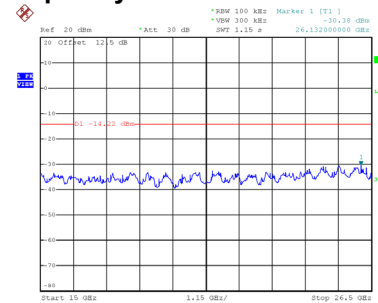
CH11 – 10th Harmonic of the fundamental frequency



Date: 22.AUG.2022 05:55:29



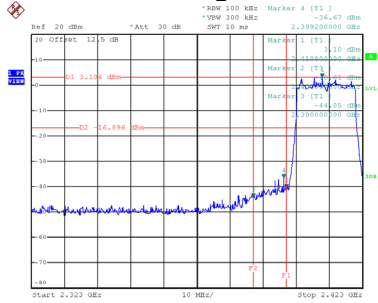
Date: 22.AUG.2022 05:55:36



Date: 22.AUG.2022 05:55:44

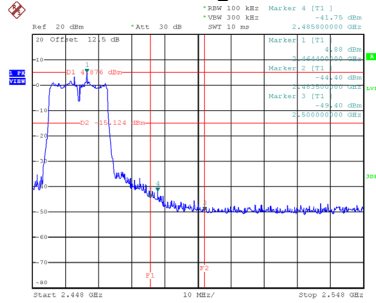
Test Mode TX N(HT20) Mode_Ant. 1

Bandedge-CH01



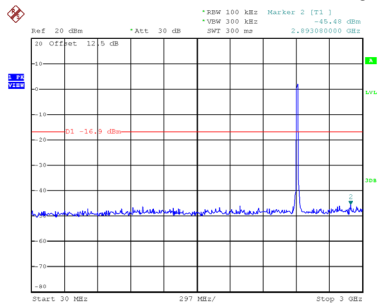
Date: 22.AUG.2022 06:03:53

Bandedge-CH11

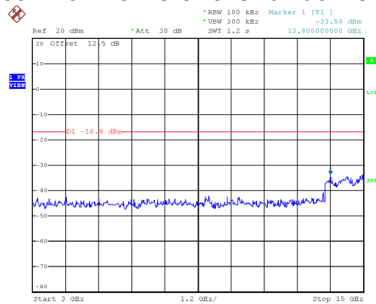


Date: 22.AUG.2022 06:07:05

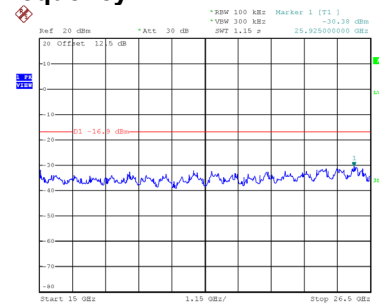
CH01 – 10th Harmonic of the fundamental frequency



Date: 22.AUG.2022 06:04:07

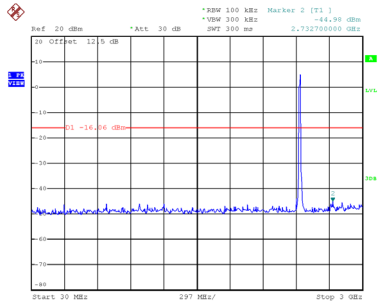


Date: 22.AUG.2022 06:04:14

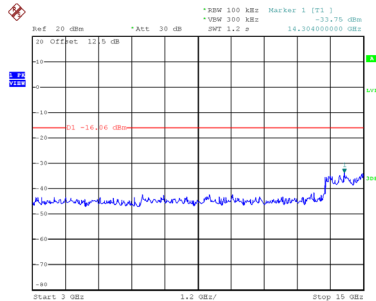


Date: 22.AUG.2022 06:04:22

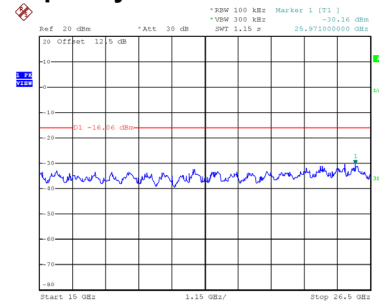
CH06 – 10th Harmonic of the fundamental frequency



Date: 22.AUG.2022 06:05:41

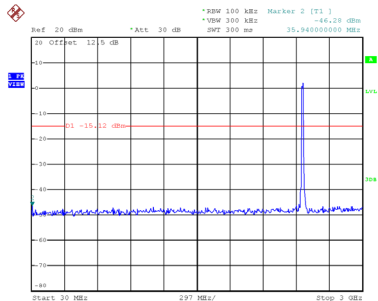


Date: 22.AUG.2022 06:05:48

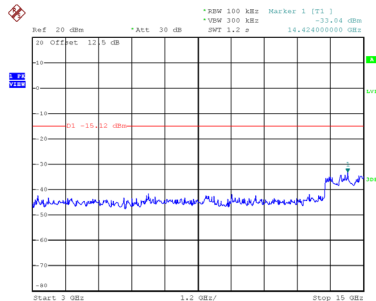


Date: 22.AUG.2022 06:05:56

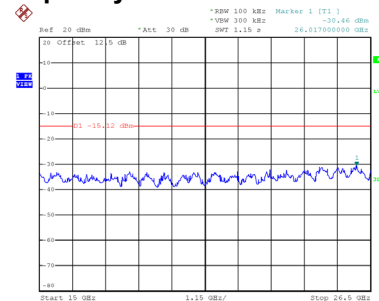
CH11 – 10th Harmonic of the fundamental frequency



Date: 22.AUG.2022 06:07:19



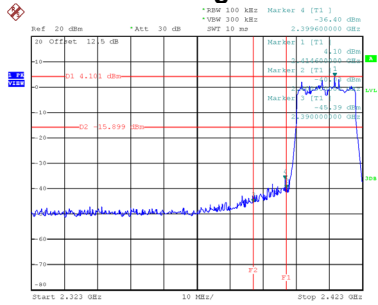
Date: 22.AUG.2022 06:07:26



Date: 22.AUG.2022 06:07:34

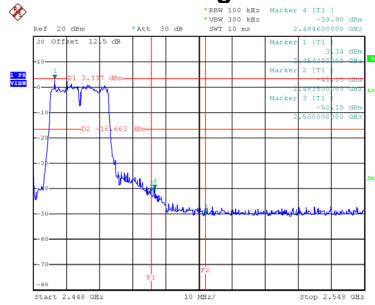
Test Mode TX N(HT20) Mode_Ant. 2

Bandedge-CH01



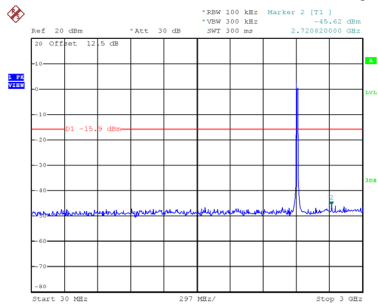
Date: 31.AUG.2022 13:41:50

Bandedge-CH11

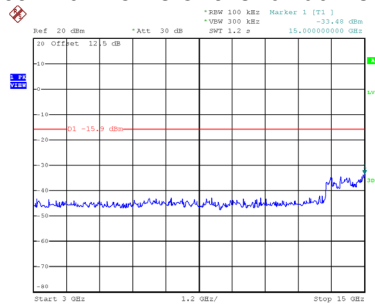


Date: 31.AUG.2022 13:44:44

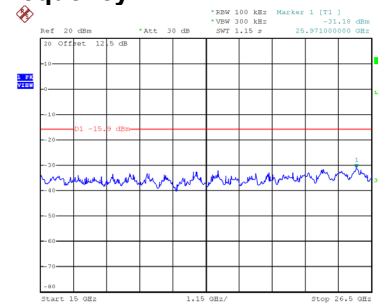
CH01 – 10th Harmonic of the fundamental frequency



Date: 31.AUG.2022 13:42:02

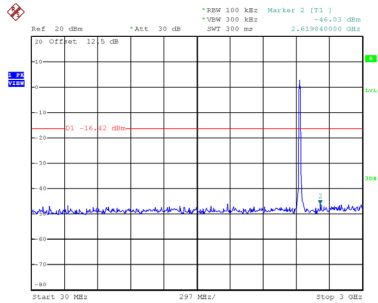


Date: 31.AUG.2022 13:42:09

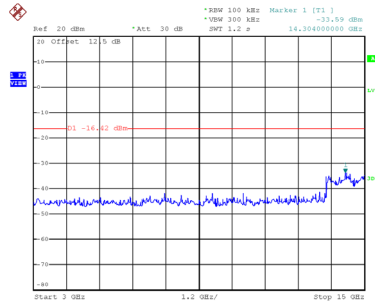


Date: 31.AUG.2022 13:42:16

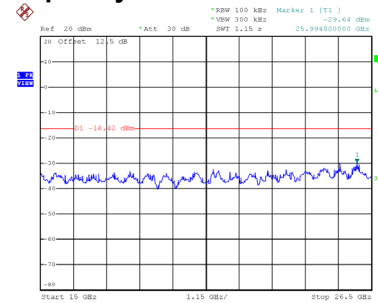
CH06 – 10th Harmonic of the fundamental frequency



Date: 31.AUG.2022 13:43:35

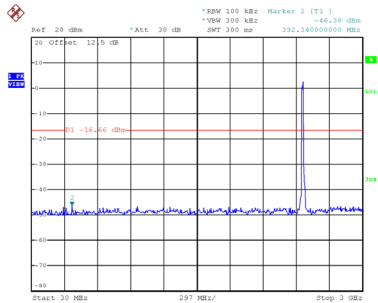


Date: 31.AUG.2022 13:43:42

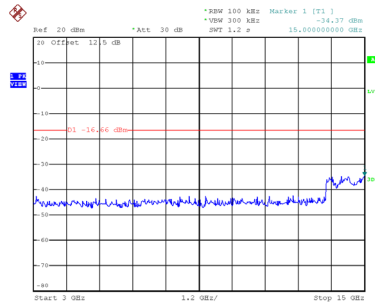


Date: 31.AUG.2022 13:43:49

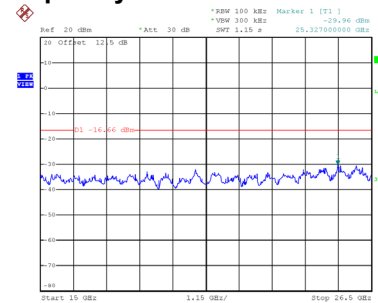
CH11 – 10th Harmonic of the fundamental frequency



Date: 31.AUG.2022 13:44:56



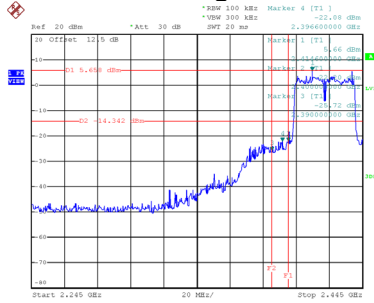
Date: 31.AUG.2022 13:45:03



Date: 31.AUG.2022 13:45:10

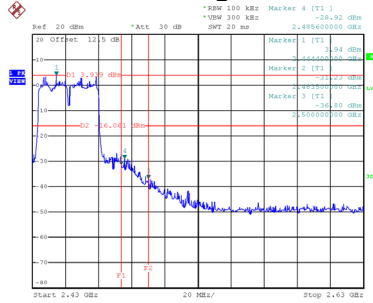
Test Mode TX N(HT40) Mode_Ant. 1

Bandedge-CH03



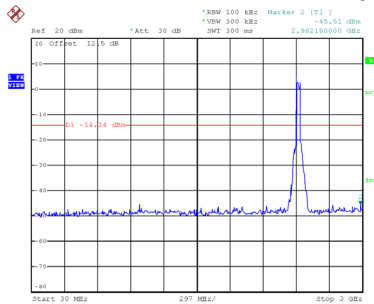
Date: 22.AUG.2022 06:10:17

Bandedge-CH09

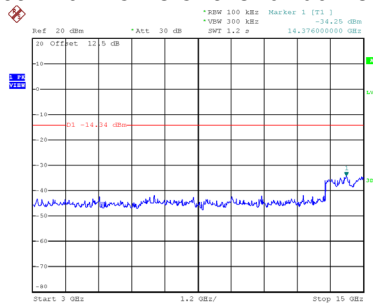


Date: 22.AUG.2022 07:41:09

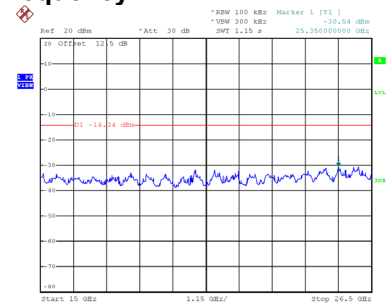
CH03 – 10th Harmonic of the fundamental frequency



Date: 22.AUG.2022 06:10:31

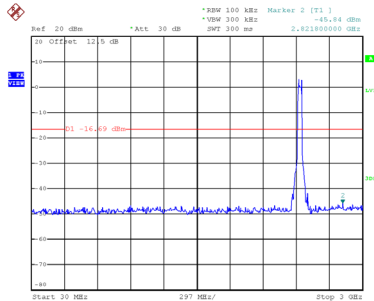


Date: 22.AUG.2022 06:10:38

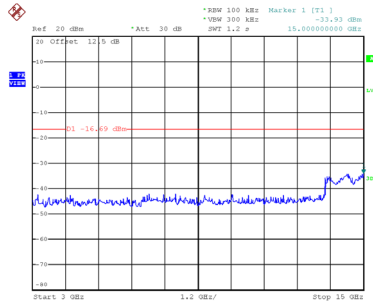


Date: 22.AUG.2022 06:10:46

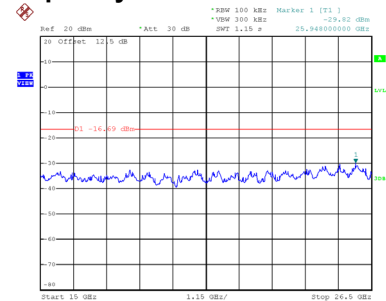
CH06 – 10th Harmonic of the fundamental frequency



Date: 22.AUG.2022 07:39:40

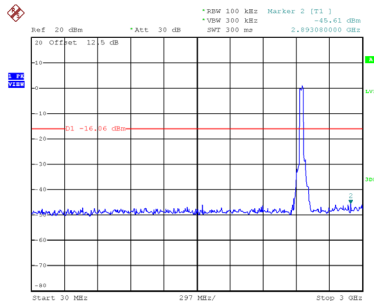


Date: 22.AUG.2022 07:39:46

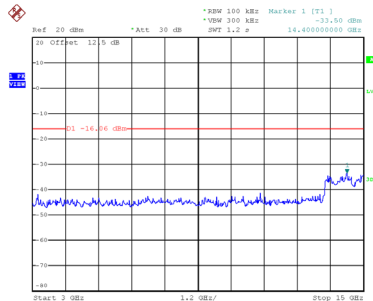


Date: 22.AUG.2022 07:39:53

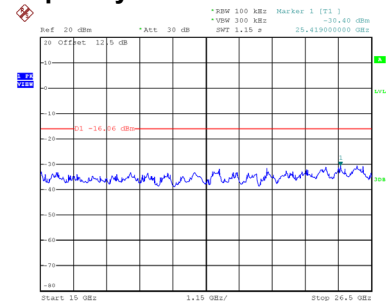
CH09 – 10th Harmonic of the fundamental frequency



Date: 22.AUG.2022 07:41:21



Date: 22.AUG.2022 07:41:28



Date: 22.AUG.2022 07:41:34