

FCC Radio Test Report

FCC ID: TE7X60

This report concerns: Class II Permissive Change

Project No. : 1910C039A
Equipment : AX3000 Whole Home Mesh Wi-Fi System
Brand Name : tp-link
Test Model : Deco X60
Series Model : N/A
Applicant : TP-Link Technologies Co., Ltd.
Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Manufacturer : TP-Link Technologies Co., Ltd.
Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
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Date of Test : Apr. 08, 2019 ~ Apr. 24, 2020
Issued Date : May 09, 2020
Report Version : R00
Test Sample : Engineering Sample No.: DG2020040786 for conducted, DG2020040787 for radiated
Standard(s) : FCC Part15, Subpart E(15.407)
ANSI C63.10-2013
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

Vincent Tan

Prepared by : Vincent Tan

Ethan Ma

Approved by : Ethan Ma



Certificate #5123.02

Add: No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

Tel: +86-769-8318-3000

Web: www.newbtl.com

Declaration

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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 Version	Description	Issued Date
R00	Compared with the previous report (BTL-FCCP-2-1910C039), added the description and test data of UNII-3. In this report only record the UNII-3 description and test data, the original test data please refer to the previous report.	May 09, 2020

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E(15.407)				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207 15.407(b)	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.407(a) 15.407(e)	Spectrum Bandwidth	APPENDIX E	PASS	-----
15.407(a)	Maximum Output Power	APPENDIX F	PASS	-----
15.407(a)	Power Spectral Density	APPENDIX G	PASS	-----
15.407(g)	Frequency Stability	APPENDIX H	PASS	-----
15.203	Antenna Requirements	-----	PASS	NOTE (2)
15.407(c)	Automatically Discontinue Transmission	-----	PASS	NOTE (3)

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.
- (3) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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 Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm 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	Ant. H / V	U, (dB)
DG-CB03	CISPR	9kHz ~ 30MHz	V	3.79
		9kHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	4.88
		30MHz ~ 200MHz	H	4.14
		200MHz ~ 1,000MHz	V	4.62
		200MHz ~ 1,000MHz	H	4.80
		1GHz ~ 6GHz	-	4.58
		6GHz ~ 18GHz	-	5.18
		18GHz ~ 26.5GHz	-	3.62
		26.5GHz ~ 40GHz	-	4.00

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	53%	AC 120V/60Hz	Kwok Guo
Radiated Emissions-9K-30MHz	25°C	60%	AC 120V/60Hz	Kwok Guo
Radiated Emissions-30 MHz to 1GHz	24°C	68%	AC 120V/60Hz	Kwok Guo
Radiated Emissions-Above 1000 MHz	25°C	60%	AC 120V/60Hz	Kwok Guo
Spectrum Bandwidth	24°C	52%	AC 120V/60Hz	Hayden Chen
Maximum Output Power	24°C	52%	AC 120V/60Hz	Laughing Zhang
Power Spectral Density	24°C	52%	AC 120V/60Hz	Hayden Chen
Frequency Stability	Normal & Extreme	60%	Normal & Extreme	Hayden Chen

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AX3000 Whole Home Mesh Wi-Fi System
Brand Name	tp-link
Test Model	Deco X60
Series Model	N/A
Model Difference(s)	N/A
Power Source	DC Voltage supplied from AC adapter. Model: T120200-2B4
Power Rating	I/P:100-240V~ 50/60Hz, 0.8A O/P:12V --- 2A
Operation Frequency Bands	5725 MHz~5850 MHz
Modulation Type	IEEE 802.11a/n/ac: OFDM IEEE 802.11ax: OFDMA
Bit Rate of Transmitter	Up to 2402 Mbps
Maximum Output Power	IEEE 802.11a: 28.38 dBm (0.6887 W) IEEE 802.11ac (VHT20): 28.38 dBm (0.6887 W) IEEE 802.11ac (VHT40): 28.35 dBm (0.6839 W) IEEE 802.11ac (VHT80): 28.15 dBm (0.6531 W) IEEE 802.11ax (HEW20): 28.21 dBm (0.6622 W) IEEE 802.11ax (HEW40): 28.25 dBm (0.6683 W) IEEE 802.11ax (HEW 80): 28.14 dBm (0.6516 W)





Note:

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

2. Channel List:

IEEE 802.11a IEEE 802.11ac (VHT20) IEEE 802.11ax (HEW20)		IEEE 802.11ac (VHT40) IEEE 802.11ax (HEW40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HEW80)	
UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

3. Antenna Specification:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		3101502754	Internal	I-PEX	0.81
2		3101502755	Internal	I-PEX	0.88
3		3101502756	Internal	I-PEX	0.85
4		3101502757	Internal	I-PEX	0.94

Note: This EUT supports CDD, and antenna gains are not equal,
so Directional gain= $10\log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N] \text{dBi}$,
that is Directional gain= $10\log[(10^{0.81/20} + 10^{0.88/20} + 10^{0.85/20} + 10^{0.94/20})^2 / 4] \text{dBi} = 6.89$.
So, the output power limit is $30 - 6.89 + 6 = 29.11$, the power spectral density limit is $30 - 6.89 + 6 = 29.11$.

4. Table for Antenna Configuration:

Operating Mode	TX Mode	4TX
IEEE 802.11a		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac (VHT20)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac (VHT40)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac (VHT80)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ax (HEW20)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ax (HEW40)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ax (HEW80)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)

2.2 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 A Mode / CH149,CH157,CH165
Mode 2	TX AC (VHT20) Mode / CH149,CH157,CH165
Mode 3	TX AC (VHT40) Mode / CH151,CH159
Mode 4	TX AC (VHT80) Mode / CH155
Mode 5	TX AX (HEW20) Mode / CH149,CH157,CH165
Mode 6	TX AX (HEW40) Mode / CH151,CH159
Mode 7	TX AX (HEW80) Mode / CH155
Mode 8	TX A Mode / CH149

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 8	TX A Mode / CH149

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 8	TX A Mode / CH149

Radiated emissions test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX A Mode / CH149,CH157,CH165
Mode 2	TX AC (VHT20) Mode / CH149,CH157,CH165
Mode 3	TX AC (VHT40) Mode / CH151,CH159
Mode 4	TX AC (VHT80) Mode / CH155
Mode 5	TX AX (HEW20) Mode / CH149,CH157,CH165
Mode 6	TX AX (HEW40) Mode / CH151,CH159
Mode 7	TX AX (HEW80) Mode / CH155

Conducted test	
Final Test Mode	Description
Mode 1	TX A Mode / CH149,CH157,CH165
Mode 2	TX AC (VHT20) Mode / CH149,CH157,CH165
Mode 3	TX AC (VHT40) Mode / CH151,CH159
Mode 4	TX AC (VHT80) Mode / CH155
Mode 5	TX AX (HEW20) Mode / CH149,CH157,CH165
Mode 6	TX AX (HEW40) Mode / CH151,CH159
Mode 7	TX AX (HEW80) Mode / CH155

Note:

- (1) For radiated emission below 1 GHz test, the IEEE 802.11a channel 149 is found to be the worst case and recorded.
- (2) For radiated emission above 1 GHz test, 1GHz~26.5GHz and 26.5GHz~40GHz 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.
- (3) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (4) VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40

2.3 PARAMETERS OF TEST SOFTWARE

Test Software	N/A		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11a	22	21.5	21
IEEE 802.11ac (VHT20)	22	21.5	21
IEEE 802.11ax (HEW20)	22	21.5	21
Test Frequency (MHz)	5755	5795	
IEEE 802.11ac (VHT40)	22	22	
IEEE 802.11ax (HEW40)	22	22	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	22		
IEEE 802.11ax (HEW80)	22		

2.4 DUTY CYCLE

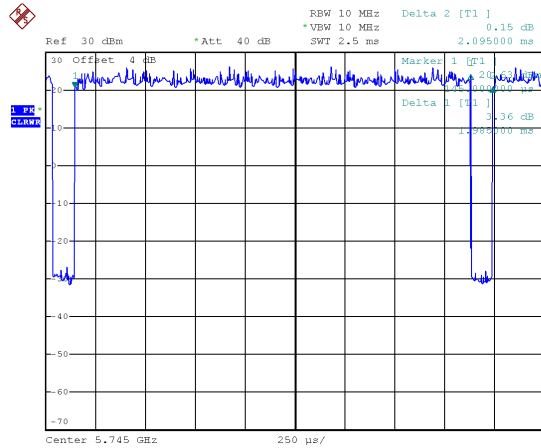
If duty cycle is $\geq 98\%$, duty factor is not required.

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

The output power = measured power + duty factor.

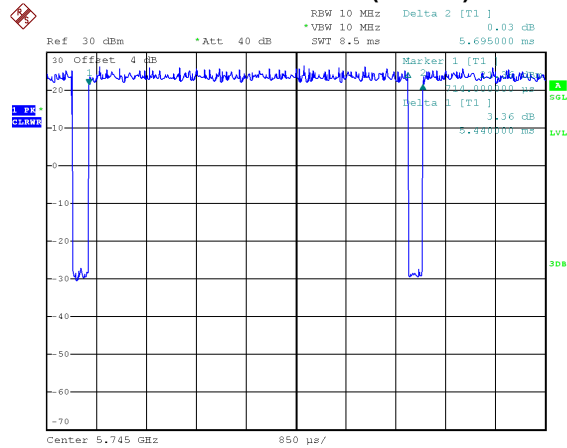
The power spectral density = measured power spectral density + duty factor.

IEEE 802.11a



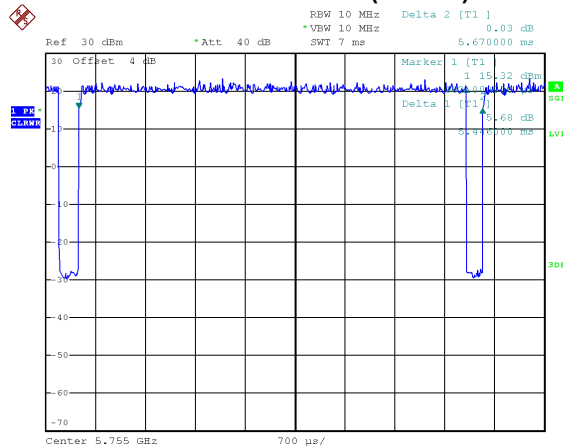
Duty cycle = $1.985 \text{ ms} / 2.095 \text{ ms} = 94.75\%$
 Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.23$

IEEE 802.11ac (VHT20)



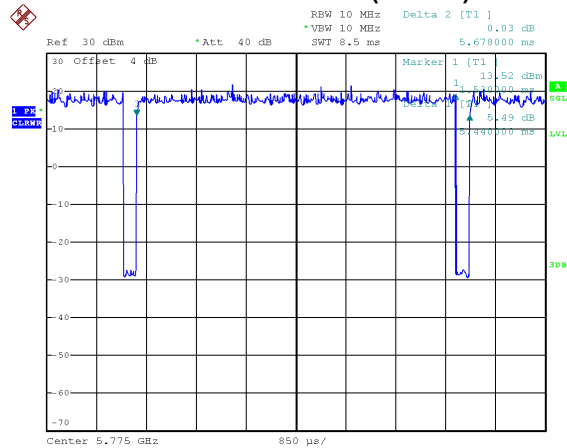
Duty cycle = $5.440 \text{ ms} / 5.695 \text{ ms} = 95.52\%$
 Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.20$

IEEE 802.11ac (VHT40)



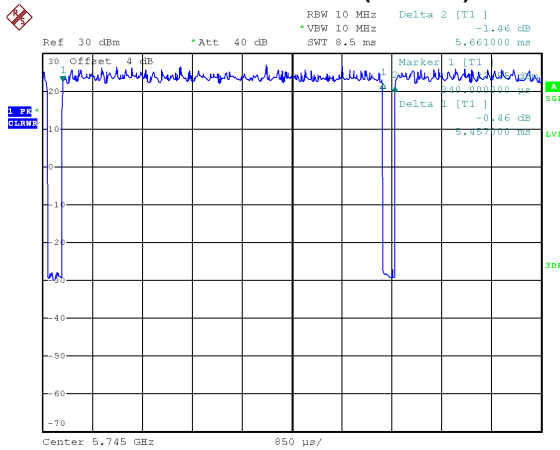
Duty cycle = $5.446 \text{ ms} / 5.670 \text{ ms} = 96.05\%$
 Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.18$

IEEE 802.11ac (VHT80)



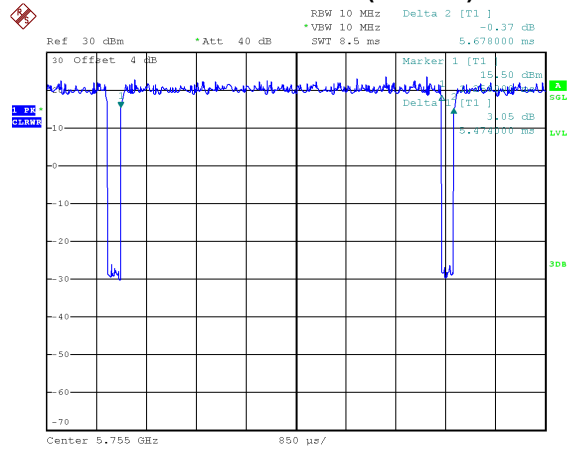
Duty cycle = $5.440 \text{ ms} / 5.678 \text{ ms} = 95.81\%$
 Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.19$

IEEE 802.11ax (HEW20)



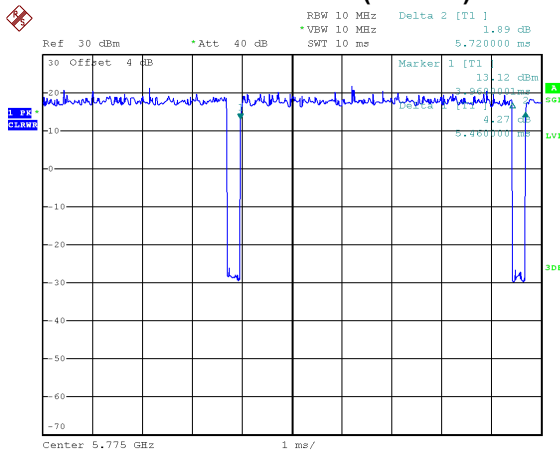
Duty cycle = 5.457 ms / 5.661 ms = 96.40%
Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.16$

IEEE 802.11ax (HEW40)



Duty cycle = 5.474 ms / 5.678 ms = 96.41%
Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.16$

IEEE 802.11ax (HEW80)



Duty cycle = 5.460 ms / 5.720 ms = 95.45%
Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.20$

NOTE:

For IEEE 802.11a, IEEE 802.11ac (VHT20) and IEEE 802.11ax (HEW20):

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 (Duty cycle < 98%).

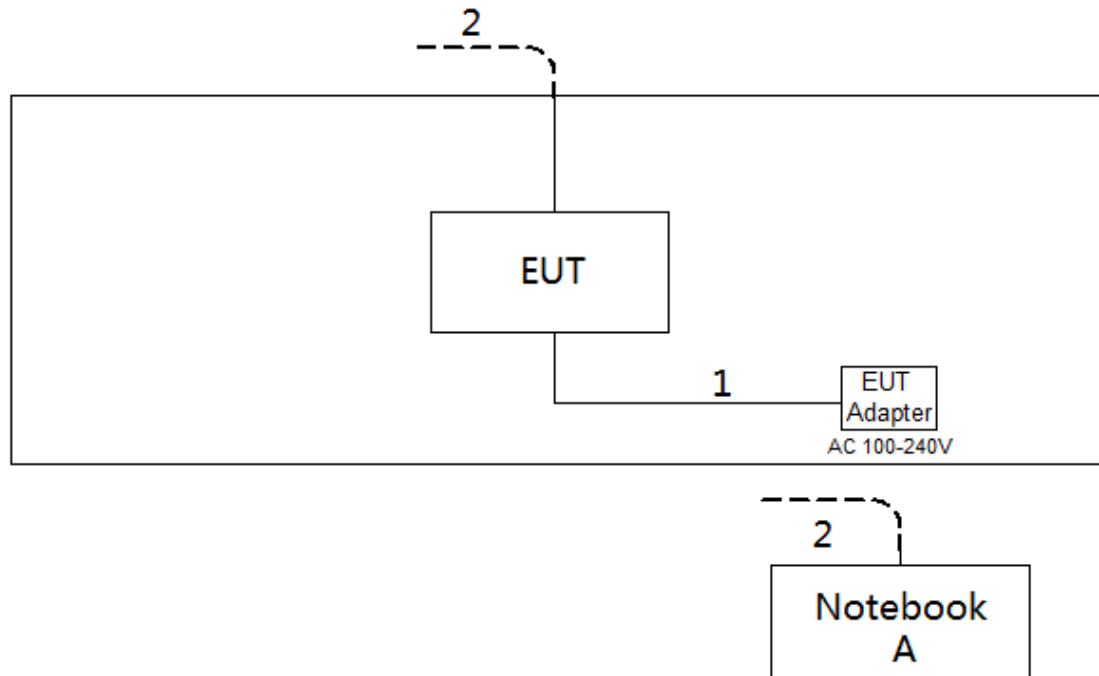
For IEEE 802.11ac (VHT40) and IEEE 802.11ax (HEW40):

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 (Duty cycle < 98%).

For IEEE 802.11ac (VHT80) and IEEE 802.11ax (HEW80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 kHz (Duty cycle < 98%).

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Dell	Inspiron 15-7559	N/A

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

3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (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.

The following table is the setting of the receiver

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

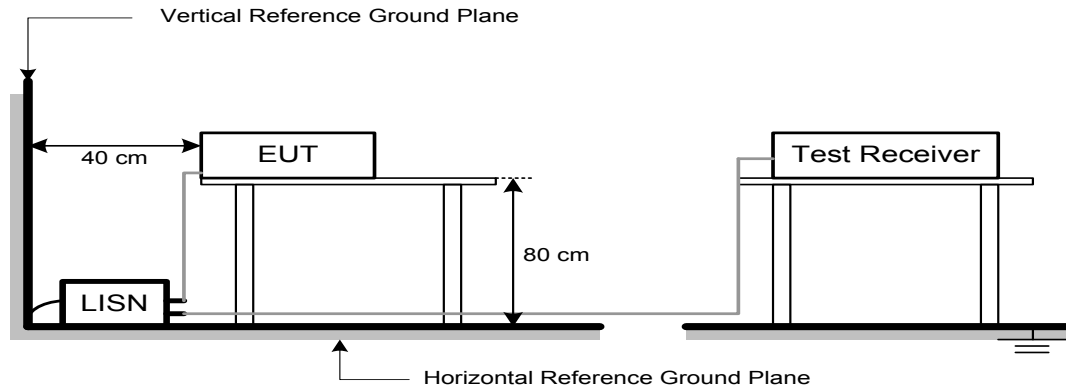
3.2 TEST PROCEDURE

- 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.

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting/TX mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS TEST

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 EMISSIONS MEASUREMENT (9 kHz to 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 UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5725-5850	-27 NOTE (2)	68.3
	10 NOTE (2)	105.3
	15.6 NOTE (2)	110.9
	27 NOTE (2)	122.3

NOTE:

- (1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

- (2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

4.2 TEST PROCEDURE

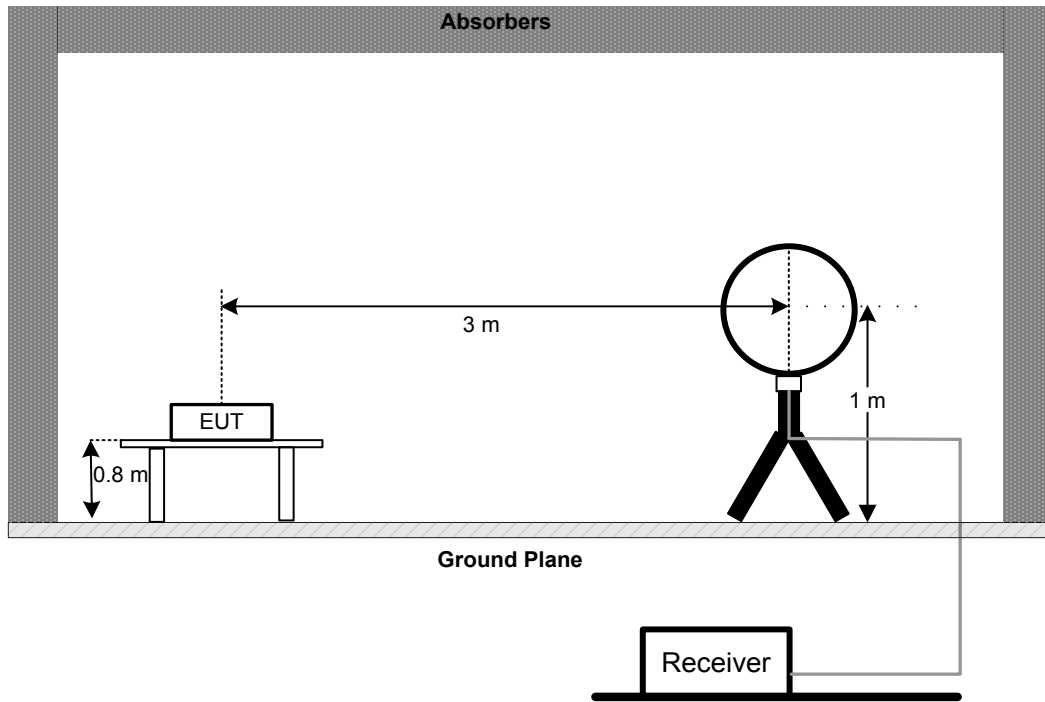
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance 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 1GHz)
- 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.

4.3 DEVIATION FROM TEST STANDARD

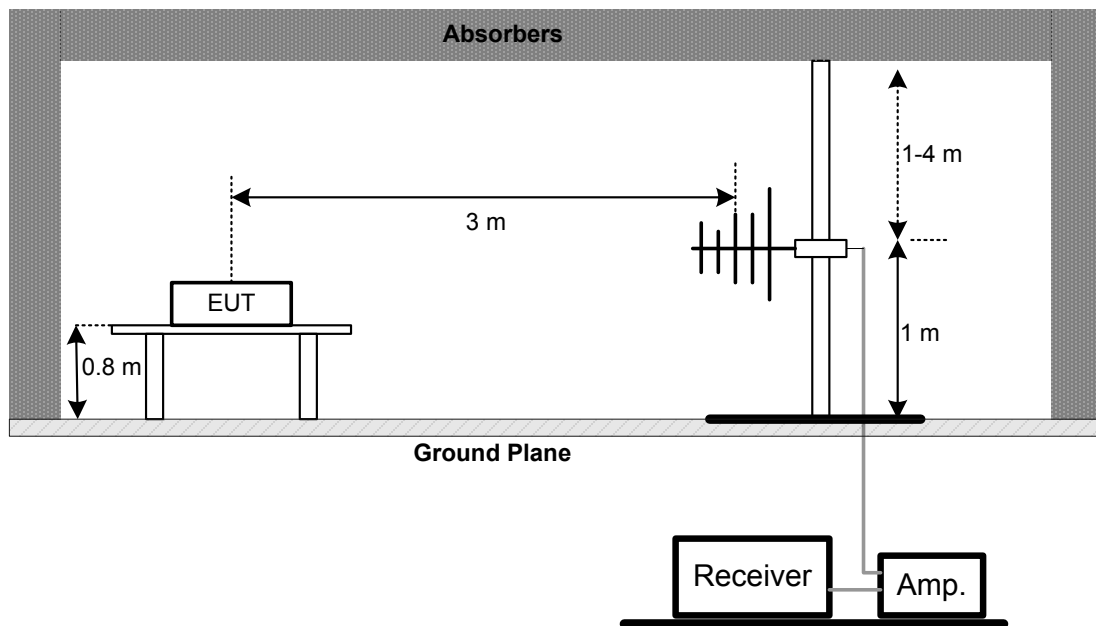
No deviation

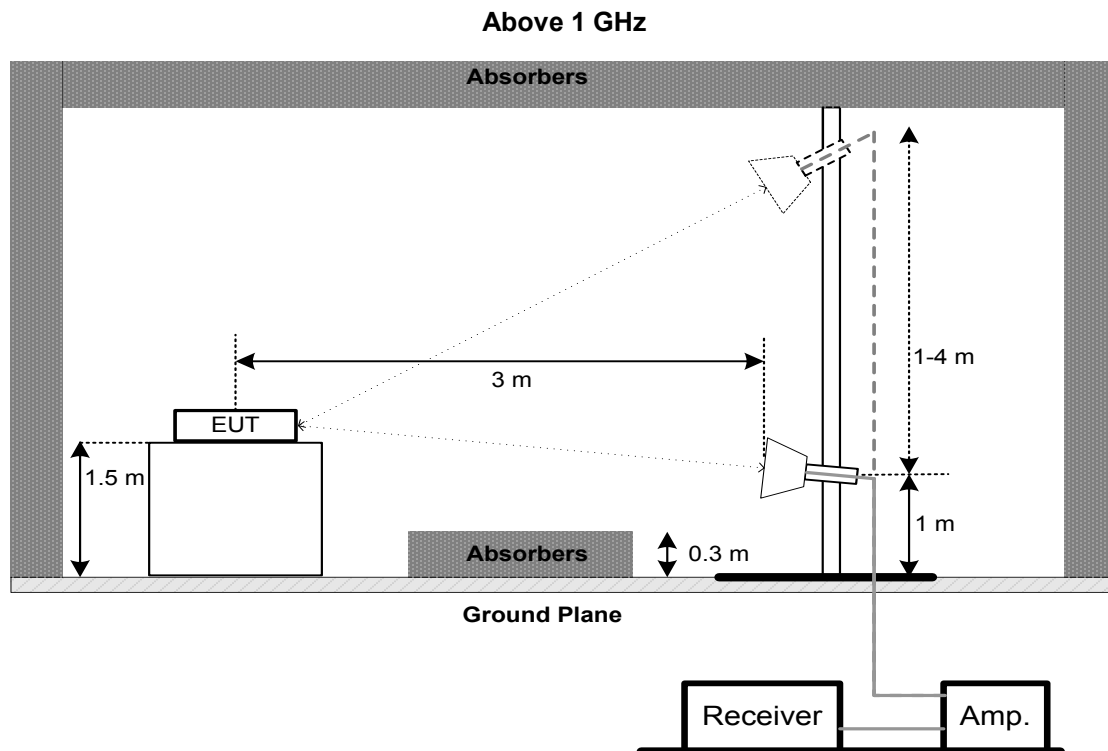
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

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 TEST

5.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a) 15.407(e)	6 dB Bandwidth	Minimum 500 kHz	5725-5850

5.2 TEST PROCEDURE

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	6 dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- Measured the spectrum width with power higher than 26 dB / 6dB below carrier

5.3 TEST PROCEDURE

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 TEST

6.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Maximum Output Power	1 Watt (30dBm)	5725-5850

6.2 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- Test test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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. POWER SPECTRAL DENSITY TEST

7.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Power Spectral Density	30 dBm/500 kHz	5725-5850

7.2 TEST PROCEDURE

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1 MHz.
VBW	≥ 3 MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

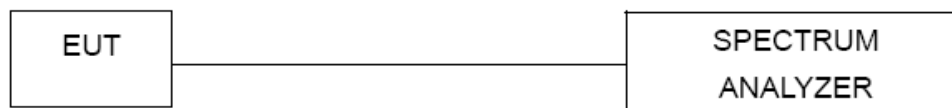
Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 1 MHz and VBW at 3 MHz if the spectrum analyzer does not have 500 kHz RBW.
- The value measured with RBW=1 MHz is to be added with $10\log(500 \text{ kHz}/1 \text{ MHz})$ which is -3 dB. For example, if the measured value is +10dBm using RBW=1 MHz (that is +10 dBm/MHz), then the converted value will be +7dBm/500kHz.

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. FREQUENCY STABILITY MEASUREMENT

8.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(g)	Frequency Stability	An emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.	5725-5850

8.2 TEST PROCEDURE

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

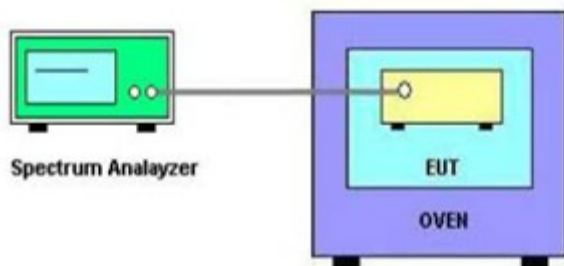
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

- The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- User manual temperature is 0°C~40°C.

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	Feb. 28, 2021
2	LISN	EMCO	3816/2	52765	Mar. 01, 2021
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Feb. 28, 2021
4	50Ω Terminator	SHX	TF5-3	15041305	Mar. 01, 2021
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 10, 2021

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EM	EM-6876-1	230	Apr. 16, 2021
2*	Cable	N/A	RG 213/U(9kHz~1GHz)	N/A	May 31, 2020
3	EMI Test Receiver	R&S	ESCI	100895	Feb. 28, 2021
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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. 09, 2021
2*	Amplifier	HP	8447D	2944A08742	Mar. 01, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 25, 2020
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 19, 2021
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2020
3	Amplifier	Agilent	8449B	3008A02584	Aug. 03, 2020
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 07, 2021
5	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	RWLP50-4.0A-KJ-S MSM-12M	N/A	Nov. 25, 2020
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Aug. 03, 2020

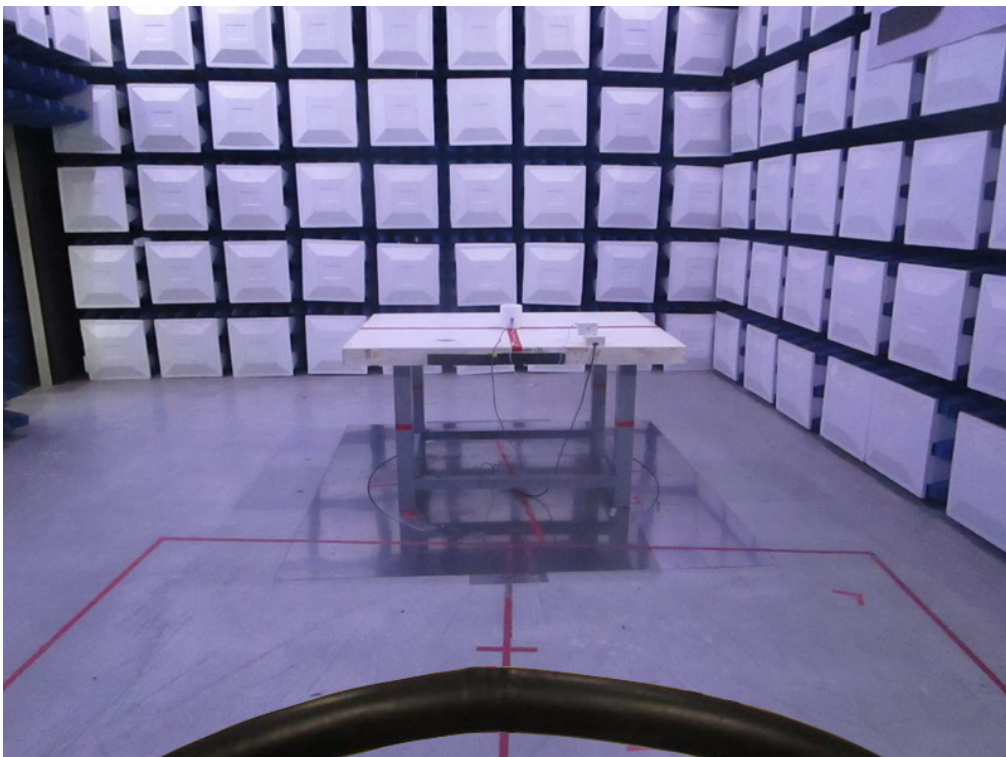
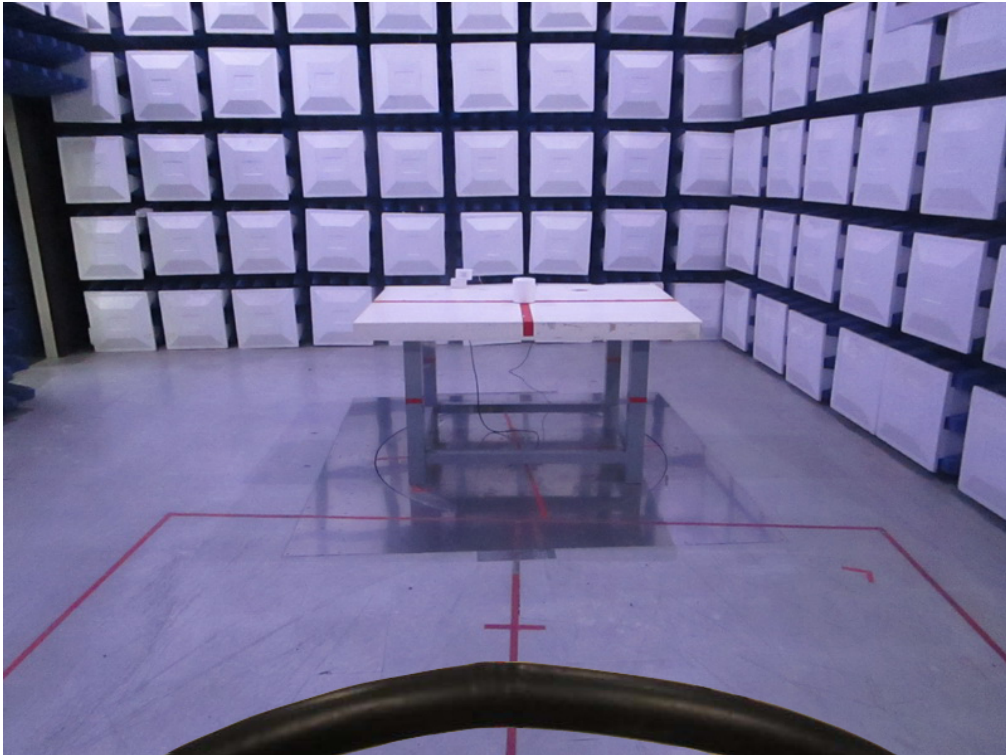
Frequency Stability					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020
2	Precision Oven Tester	CEPREI	CEEC-M64T-40	15-008	Feb. 28, 2021

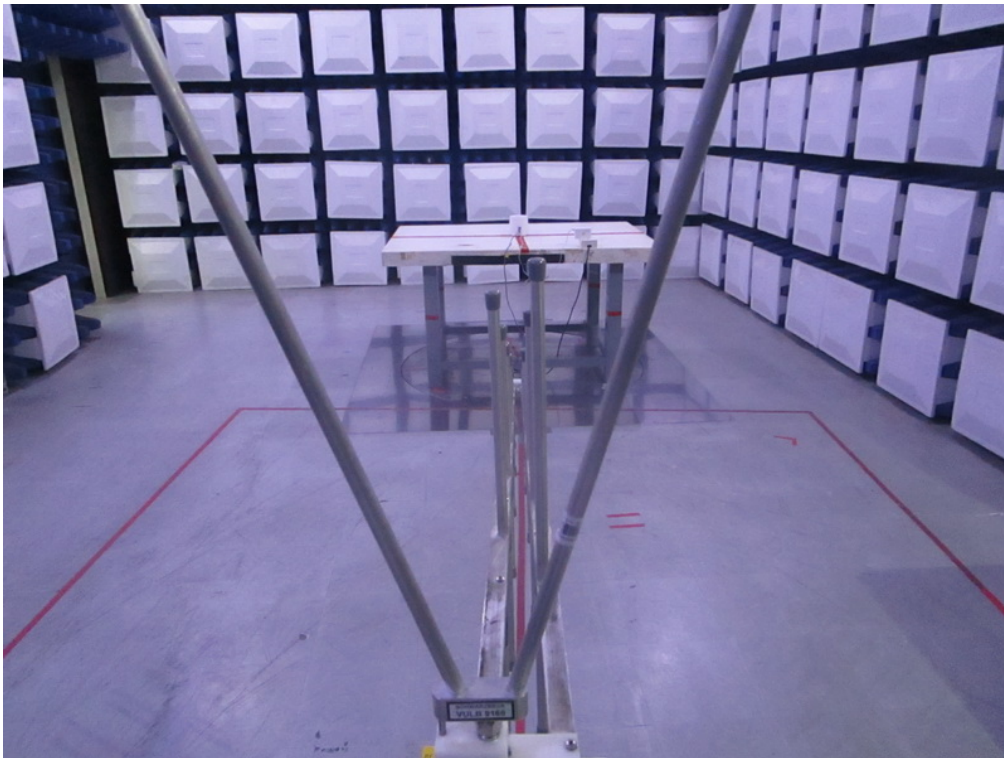
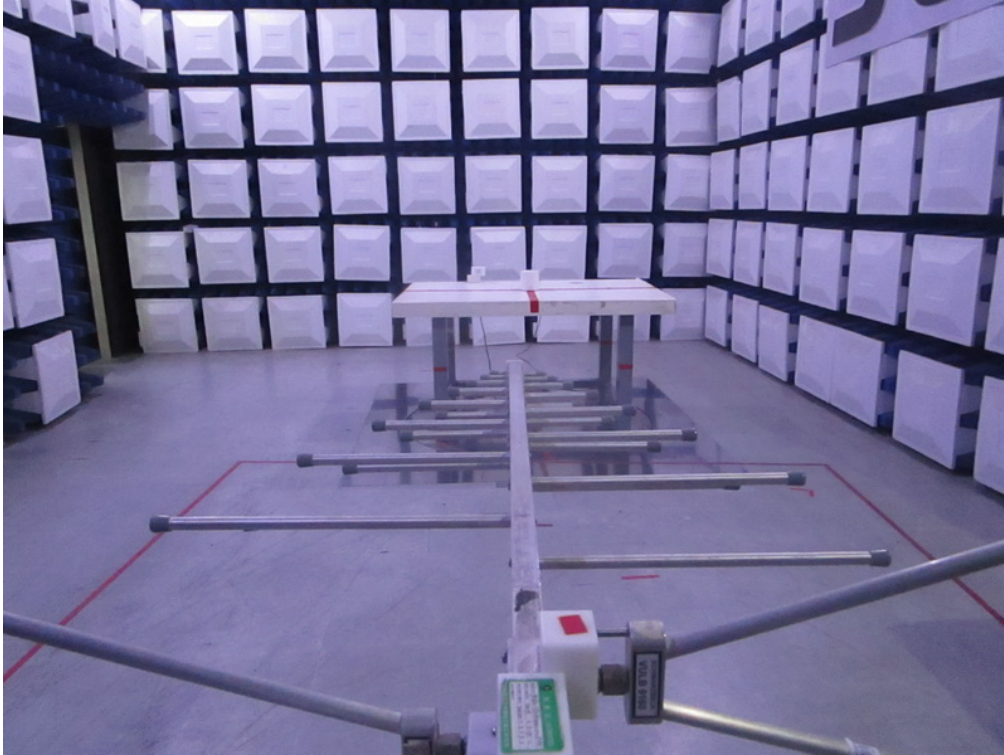
Remark: "N/A" denotes no model name, serial no. or calibration specified.

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

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

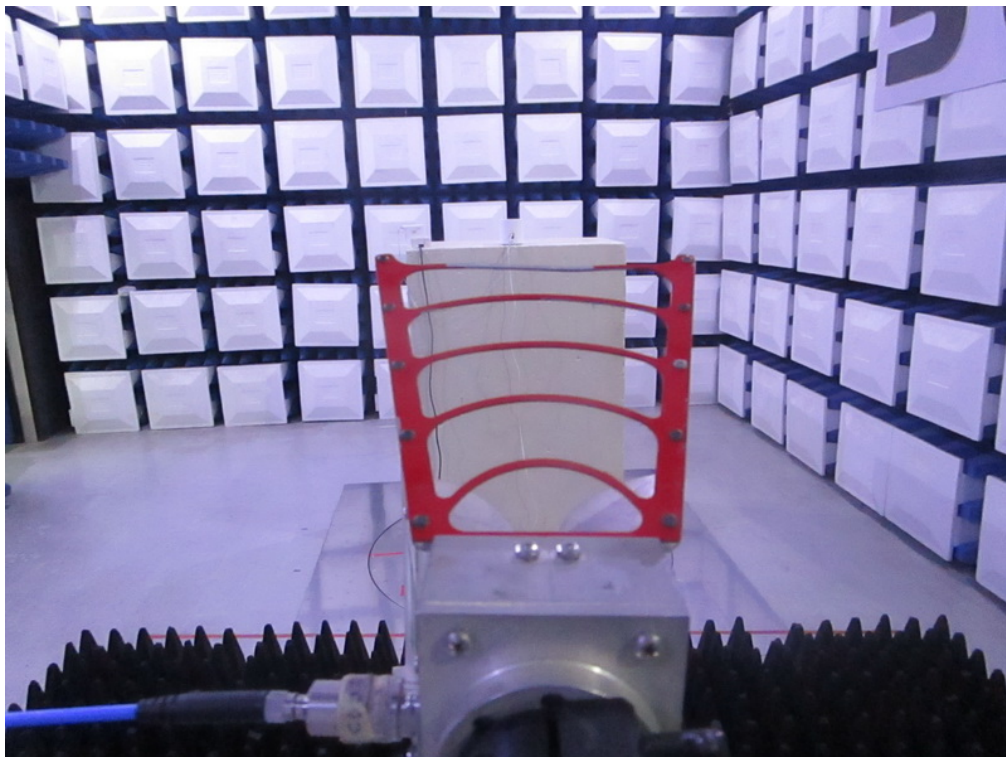
10. EUT TEST PHOTOS**AC Power Line Conducted Emissions Test Photos**

Radiated Emissions Test Photos**9 kHz to 30 MHz**

Radiated Emissions Test Photos**30 MHz to 1 GHz**

Radiated Emissions Test Photos

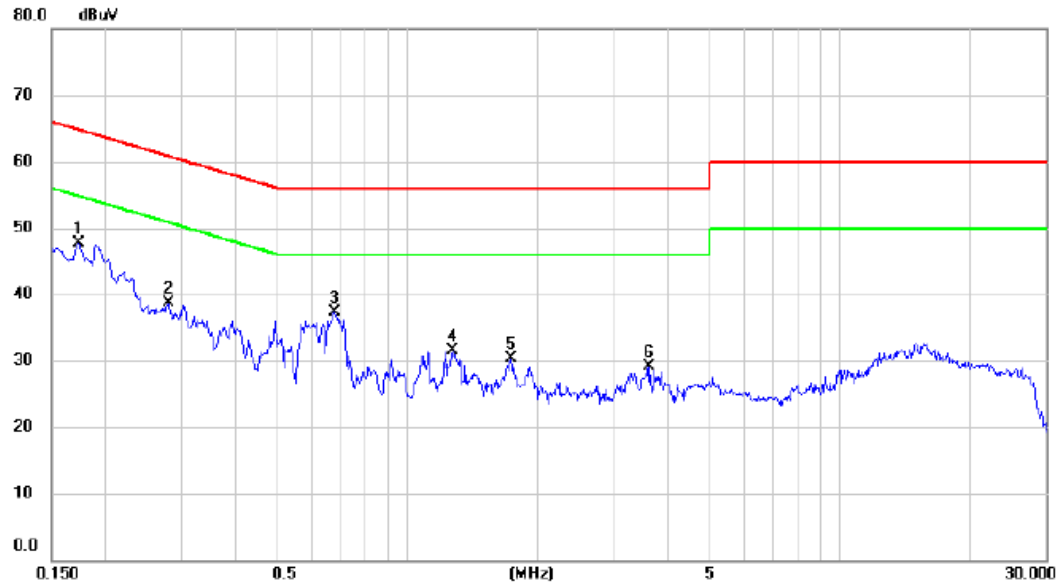
Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode: TX A Mode Channel 149

Line



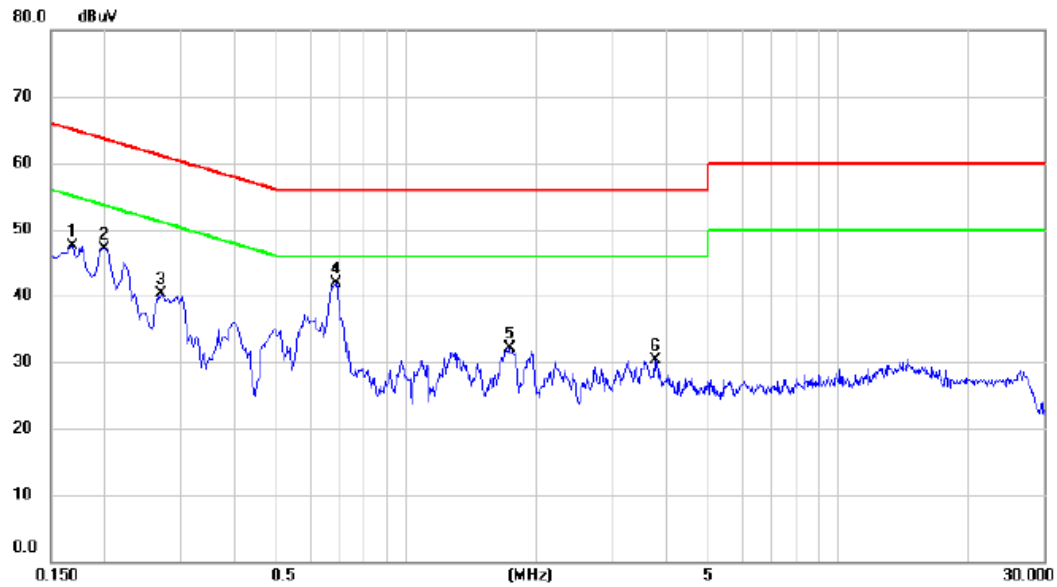
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1730	37.97	9.82	47.79	64.82	-17.03	peak	
2		0.2805	28.88	9.84	38.72	60.80	-22.08	peak	
3		0.6764	27.42	9.90	37.32	56.00	-18.68	peak	
4		1.2703	21.55	9.94	31.49	56.00	-24.51	peak	
5		1.7340	20.37	9.97	30.34	56.00	-25.66	peak	
6		3.6284	19.03	10.11	29.14	56.00	-26.86	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The test result has included the cable loss.

Test Mode: TX A Mode Channel 149

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1680	37.58	9.91	47.49	65.06	-17.57	peak	
2		0.1995	37.27	9.90	47.17	63.63	-16.46	peak	
3		0.2714	30.28	9.94	40.22	61.07	-20.85	peak	
4	*	0.6862	31.77	10.07	41.84	56.00	-14.16	peak	
5		1.7340	21.92	10.17	32.09	56.00	-23.91	peak	
6		3.7815	20.05	10.30	30.35	56.00	-25.65	peak	

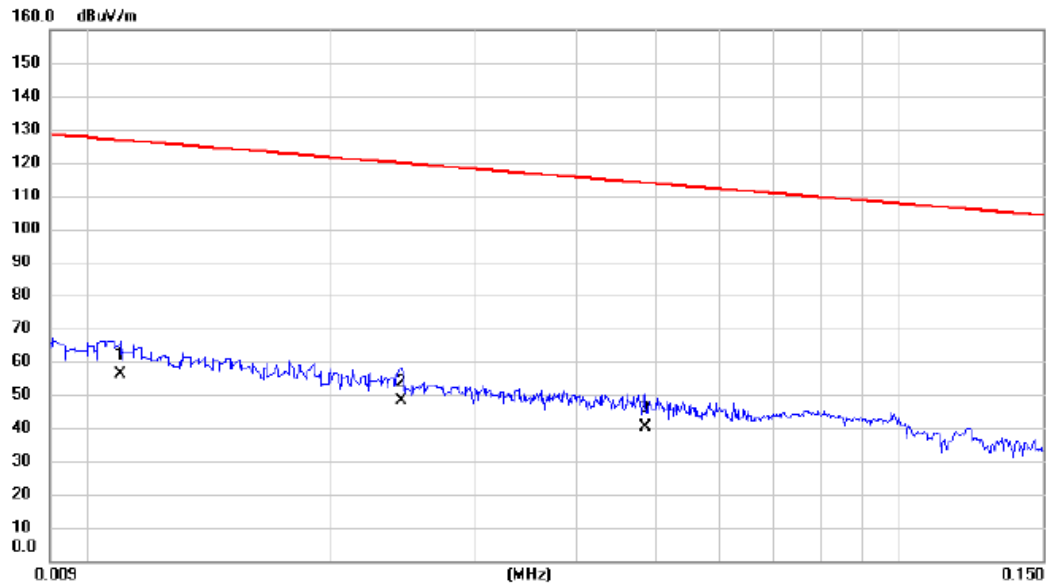
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The test result has included the cable loss.

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode: TX A Mode Channel 149

Ant 0°



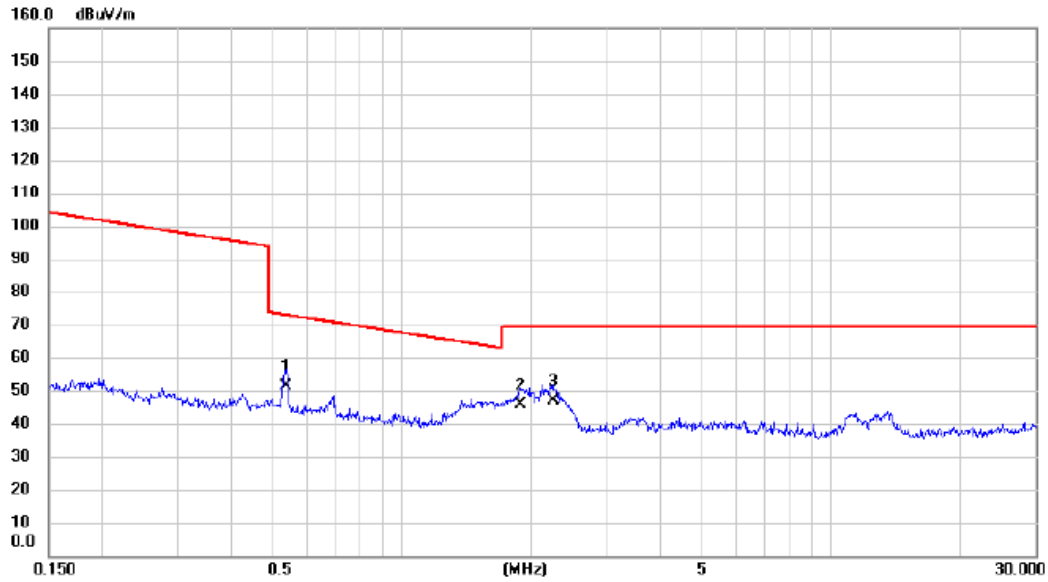
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0110	39.69	16.52	56.21	126.78	-70.57	AVG	
2		0.0244	34.54	13.83	48.37	119.86	-71.49	AVG	
3		0.0485	26.12	13.92	40.04	113.89	-73.85	AVG	

REMARKS:

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

Test Mode: TX A Mode Channel 149

Ant 0°



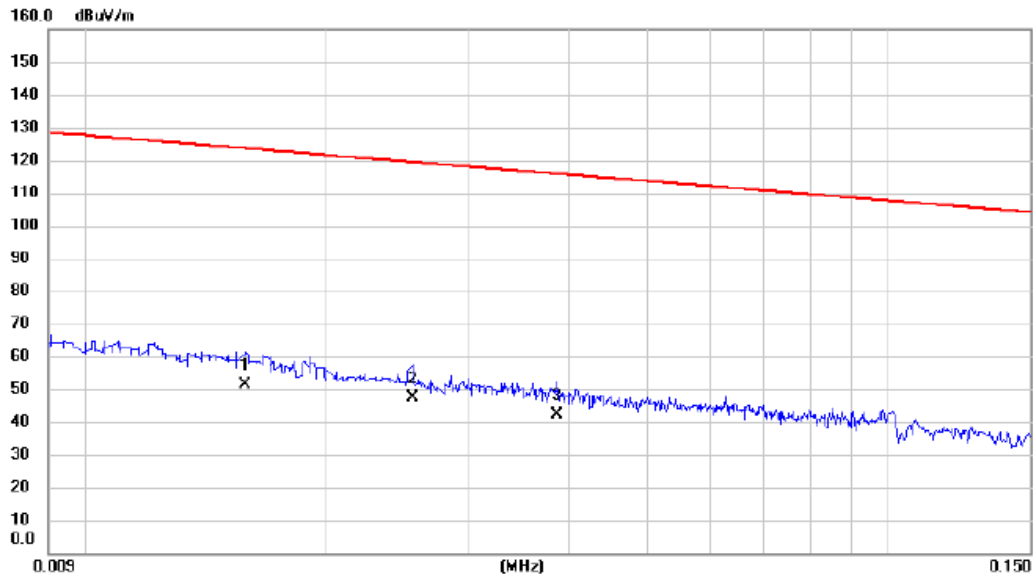
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.5350	38.42	12.99	51.41	73.04	-21.63	QP	
2		1.8880	34.07	11.89	45.96	69.54	-23.58	QP	
3		2.2486	35.33	11.67	47.00	69.54	-22.54	QP	

REMARKS:

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

Test Mode: TX A Mode Channel 149

Ant 90°



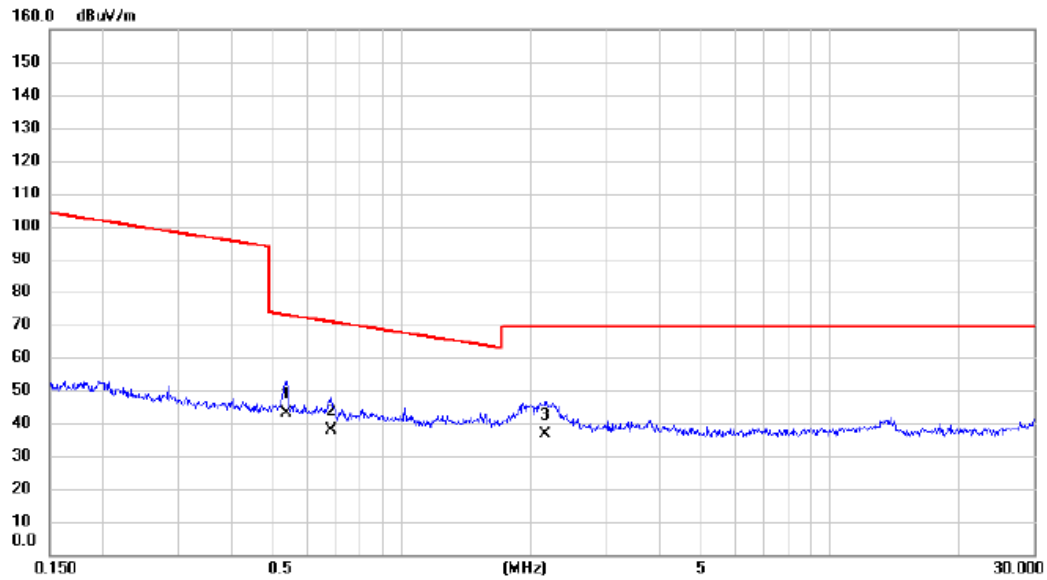
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0158	36.44	15.08	51.52	123.63	-72.11	AVG	
2		0.0256	33.47	13.84	47.31	119.44	-72.13	AVG	
3		0.0386	28.14	13.89	42.03	115.87	-73.84	AVG	

REMARKS:

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

Test Mode: TX A Mode Channel 149

Ant 90°



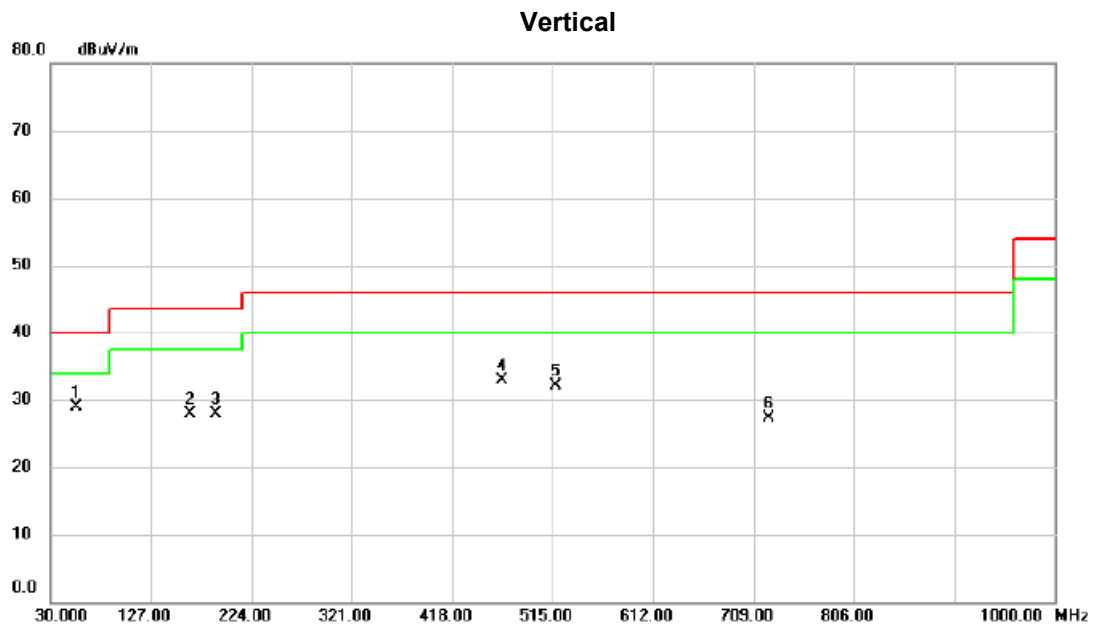
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.5350	30.00	12.99	42.99	73.04	-30.05	QP	
2		0.6825	25.15	12.70	37.85	70.92	-33.07	QP	
3		2.1667	25.02	11.72	36.74	69.54	-32.80	QP	

REMARKS:

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ

Test Mode: TX A Mode Channel 149



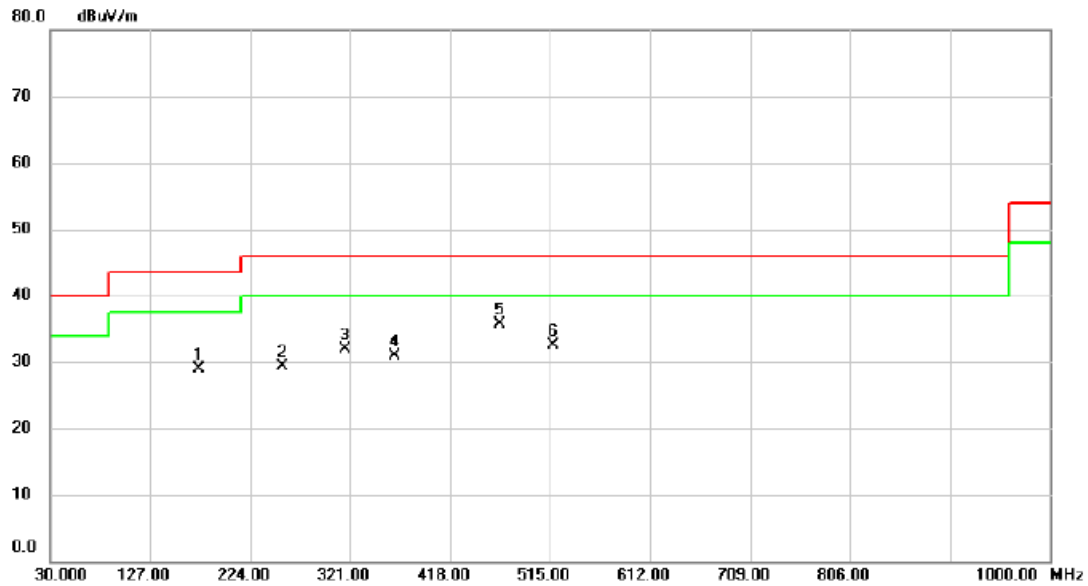
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	55.2200	43.01	-14.02	28.99	40.00	-11.01	peak	
2		165.3150	39.71	-11.82	27.89	43.50	-15.61	peak	
3		189.5650	42.30	-14.47	27.83	43.50	-15.67	peak	
4		466.5000	40.91	-8.02	32.89	46.00	-13.11	peak	
5		518.3950	39.73	-7.58	32.15	46.00	-13.85	peak	
6		724.0350	31.17	-3.85	27.32	46.00	-18.68	peak	

REMARKS:

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

Test Mode: TX A Mode Channel 149

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		173.5600	41.73	-12.74	28.99	43.50	-14.51	peak	
2		256.0100	42.38	-13.16	29.22	46.00	-16.78	peak	
3		316.6350	43.11	-11.28	31.83	46.00	-14.17	peak	
4		364.6500	41.23	-10.39	30.84	46.00	-15.16	peak	
5	*	466.5000	43.77	-8.02	35.75	46.00	-10.25	peak	
6		518.3950	40.00	-7.58	32.42	46.00	-13.58	peak	

REMARKS:

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

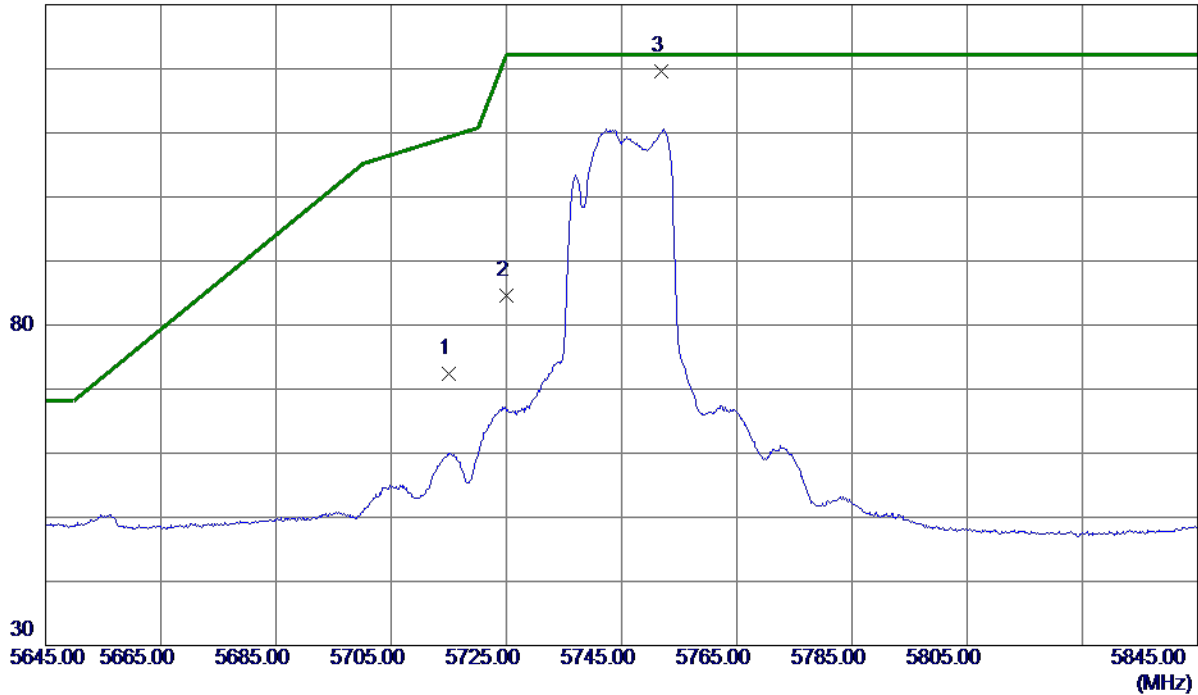
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Orthogonal Axis	X
Test Mode	TX A Mode 5745 MHz

Vertical

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	5715.0000	53.76	18.65	72.41	109.40	-36.99	Peak	
2	5725.0000	65.83	18.69	84.52	122.20	-37.68	Peak	
3 *	5751.8000	100.91	18.77	119.68	122.20	-2.52	Peak	No Limit

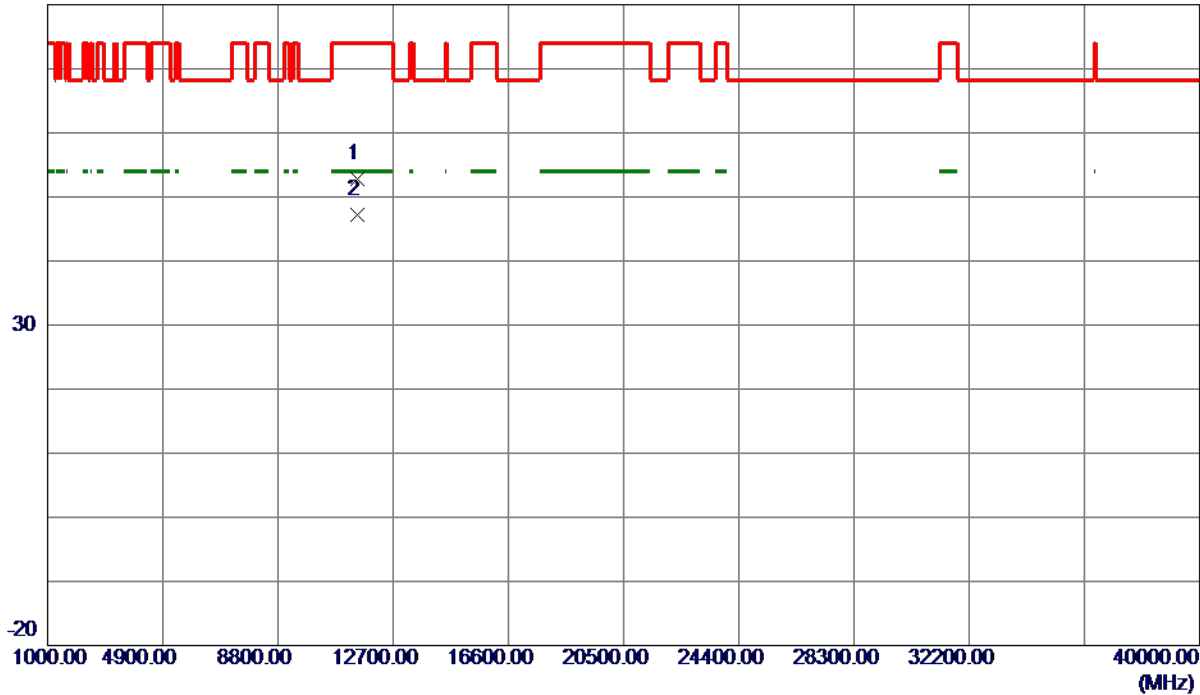
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX A Mode 5745 MHz

Vertical

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	11489.8530	35.65	17.16	52.81	74.00	-21.19	Peak	
2 *	11489.9000	30.02	17.16	47.18	54.00	-6.82	AVG	

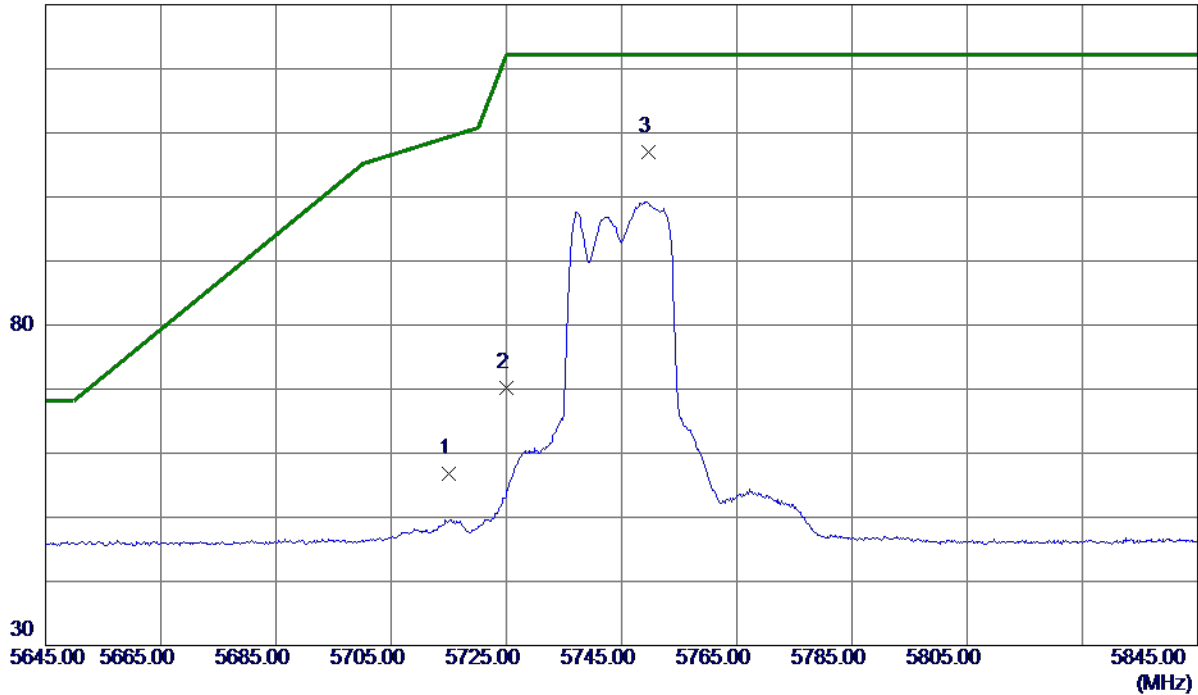
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX A Mode 5745 MHz

Horizontal

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	5715.0000	38.13	18.65	56.78	109.40	-52.62	Peak	
2	5725.0000	51.44	18.69	70.13	122.20	-52.07	Peak	
3 *	5749.7000	88.24	18.77	107.01	122.20	-15.19	Peak	No Limit

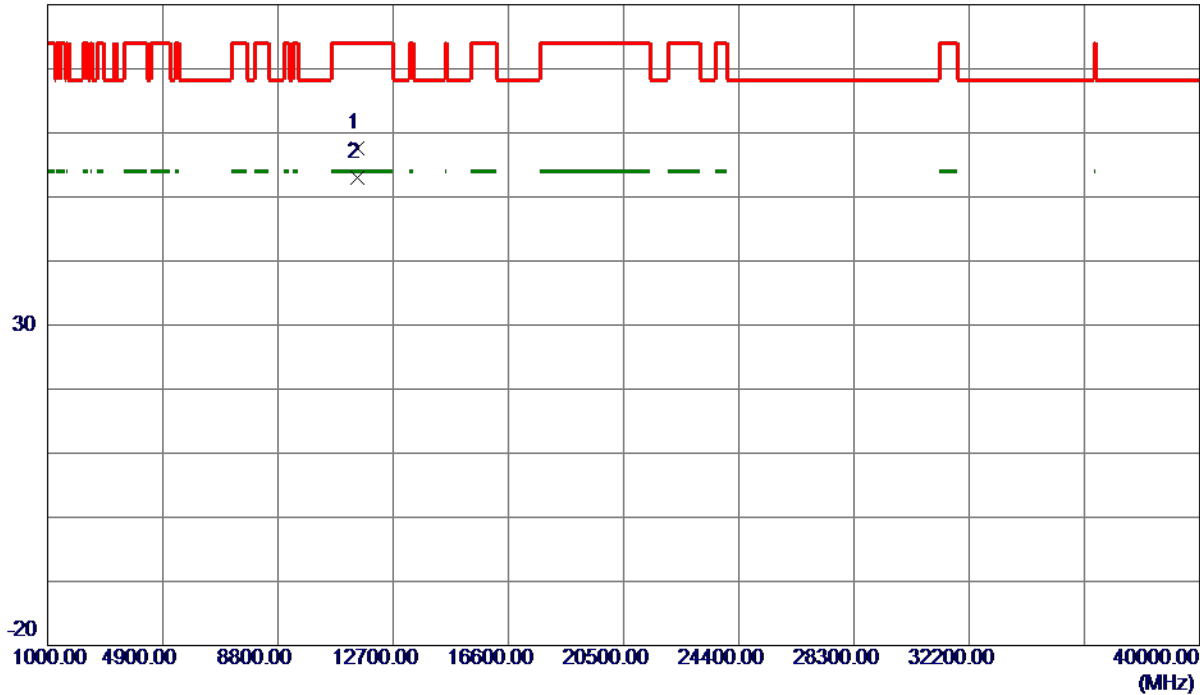
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX A Mode 5745 MHz

Horizontal

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	11489.7430	40.41	17.16	57.57	74.00	-16.43	Peak	
2 *	11489.8370	35.84	17.16	53.00	54.00	-1.00	AVG	

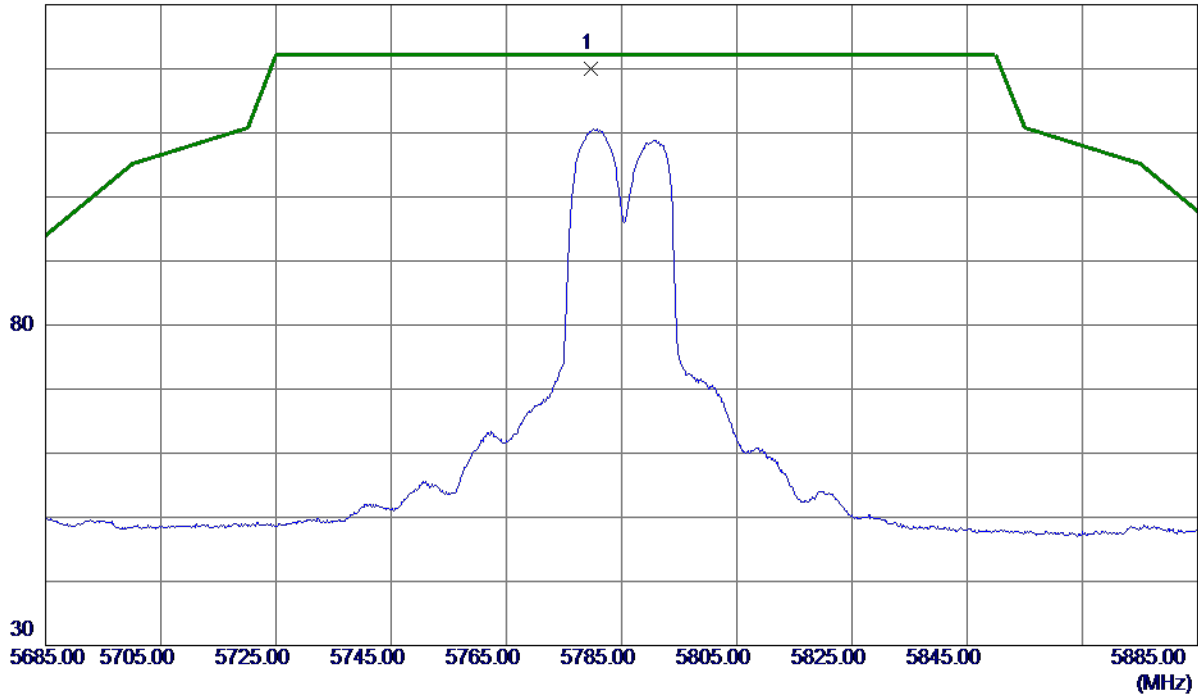
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX A Mode 5785 MHz

Vertical

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 *	5779.6000	101.15	18.86	120.01	122.20	-2.19	Peak	No Limit

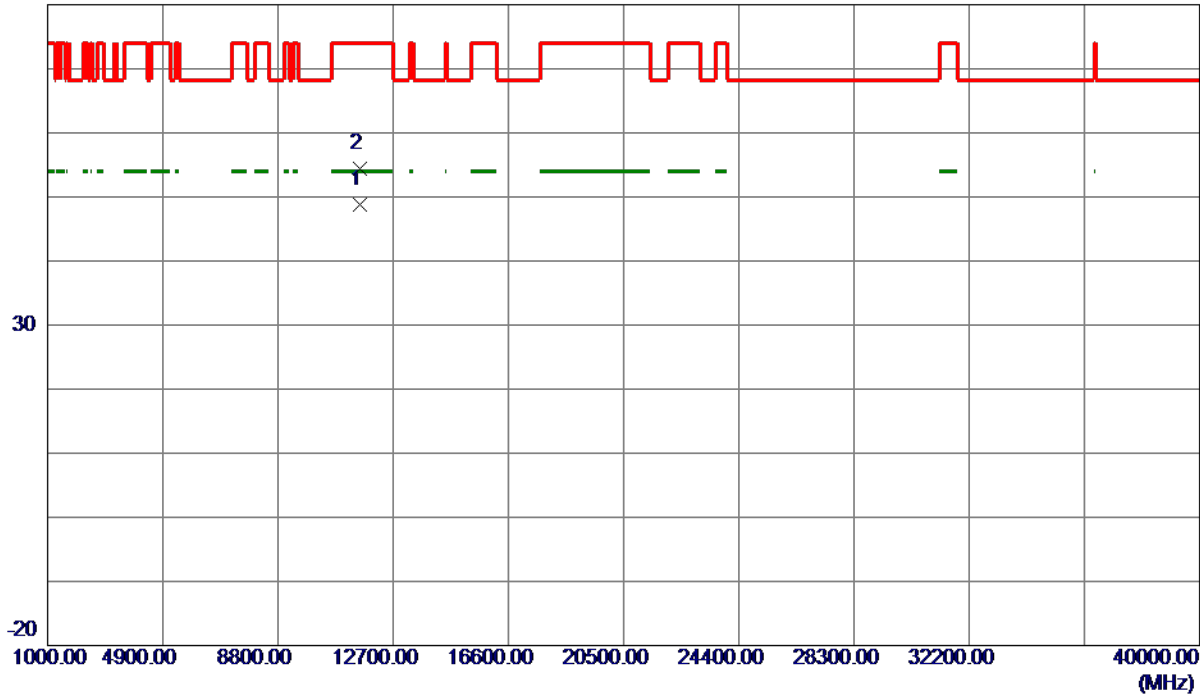
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX A Mode 5785 MHz

Vertical

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 *	11569.7430	31.62	17.20	48.82	54.00	-5.18	AVG	
2	11569.7900	37.14	17.20	54.34	74.00	-19.66	Peak	

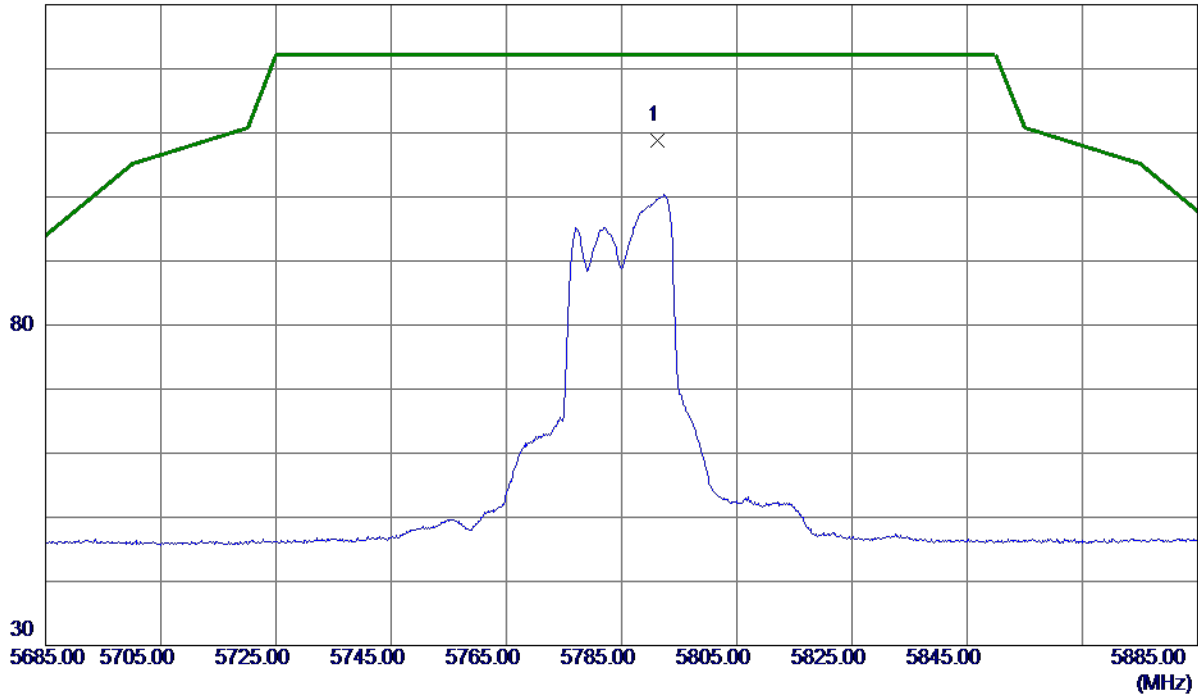
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX A Mode 5785 MHz

Horizontal

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 *	5791.2000	89.85	18.90	108.75	122.20	-13.45	Peak	No Limit

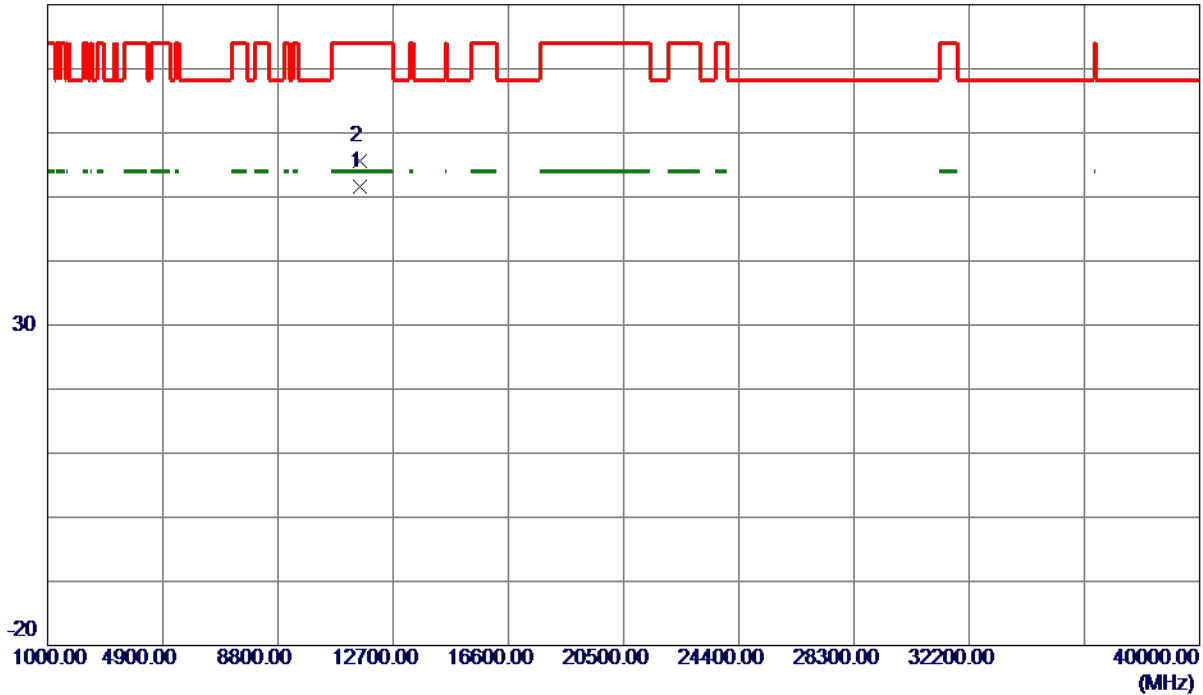
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX A Mode 5785 MHz

Horizontal

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 *	11569.7820	34.37	17.20	51.57	54.00	-2.43	AVG	
2	11569.8270	38.43	17.20	55.63	74.00	-18.37	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX A Mode 5825 MHz

Vertical

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 *	5821.5000	100.17	19.00	119.17	122.20	-3.03	Peak	No Limit
2	5850.0000	54.17	19.09	73.26	122.20	-48.94	Peak	
3	5860.0000	41.60	19.13	60.73	109.40	-48.67	Peak	

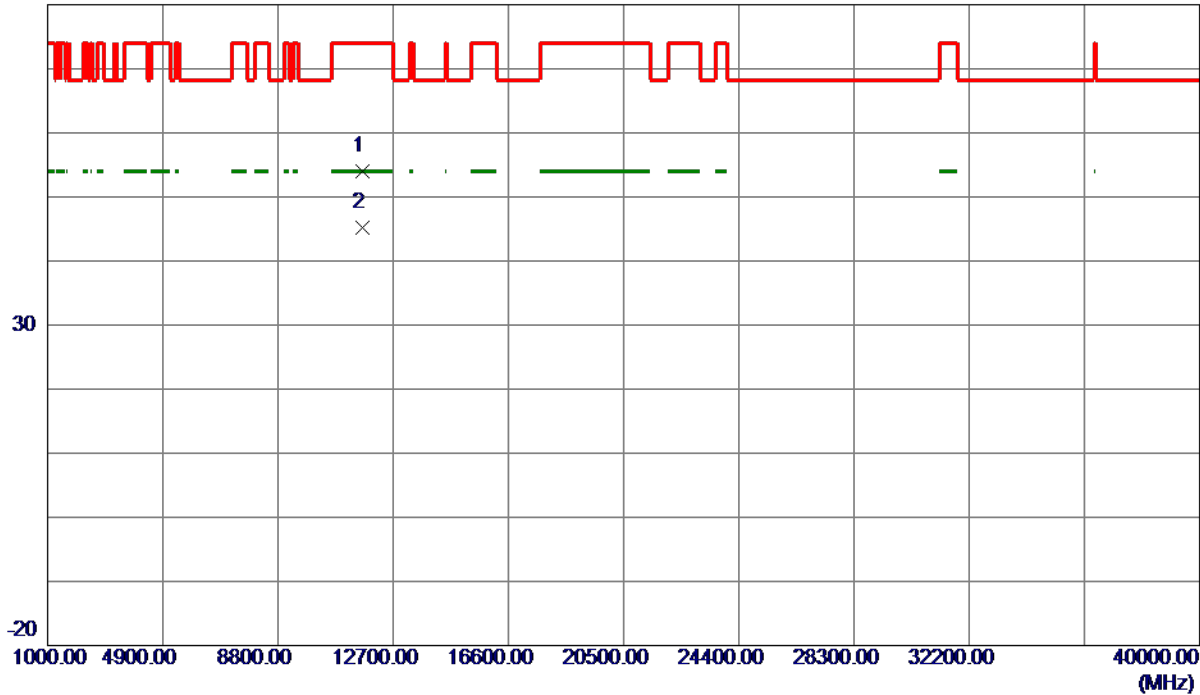
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX A Mode 5825 MHz

Vertical

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	11649.7430	36.80	17.23	54.03	74.00	-19.97	Peak	
2 *	11649.7530	27.98	17.23	45.21	54.00	-8.79	AVG	

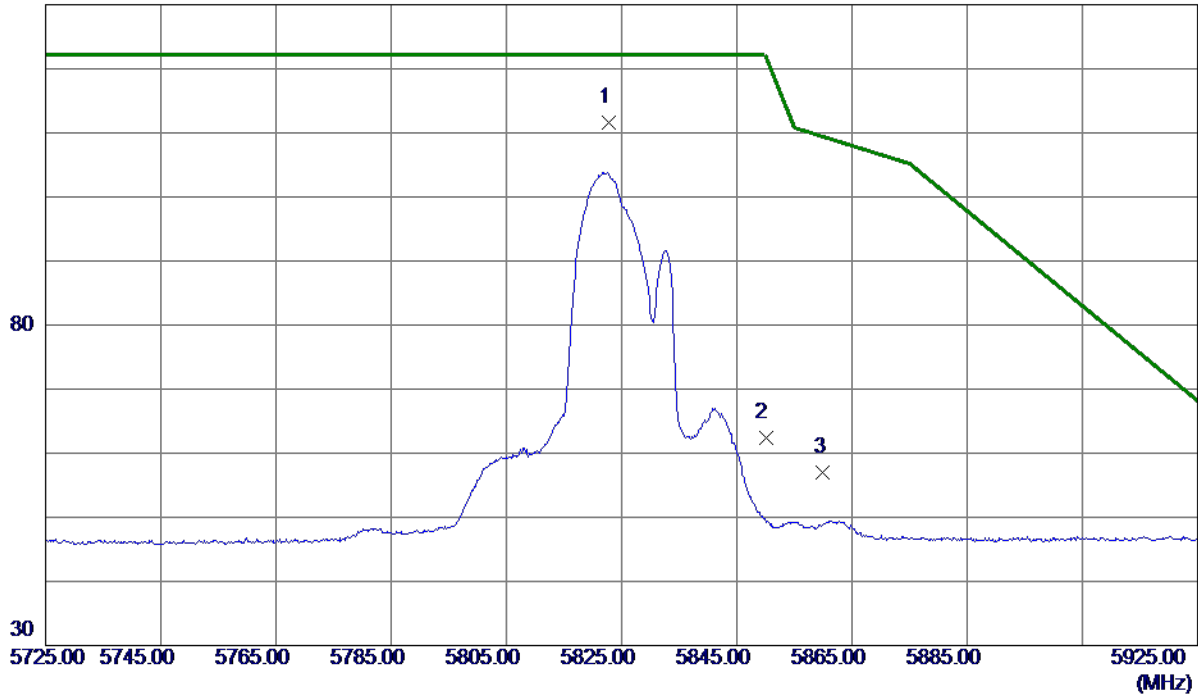
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX A Mode 5825 MHz

Horizontal

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 *	5822.7000	92.59	19.00	111.59	122.20	-10.61	Peak	No Limit
2	5850.0000	43.27	19.09	62.36	122.20	-59.84	Peak	
3	5860.0000	37.90	19.13	57.03	109.40	-52.37	Peak	

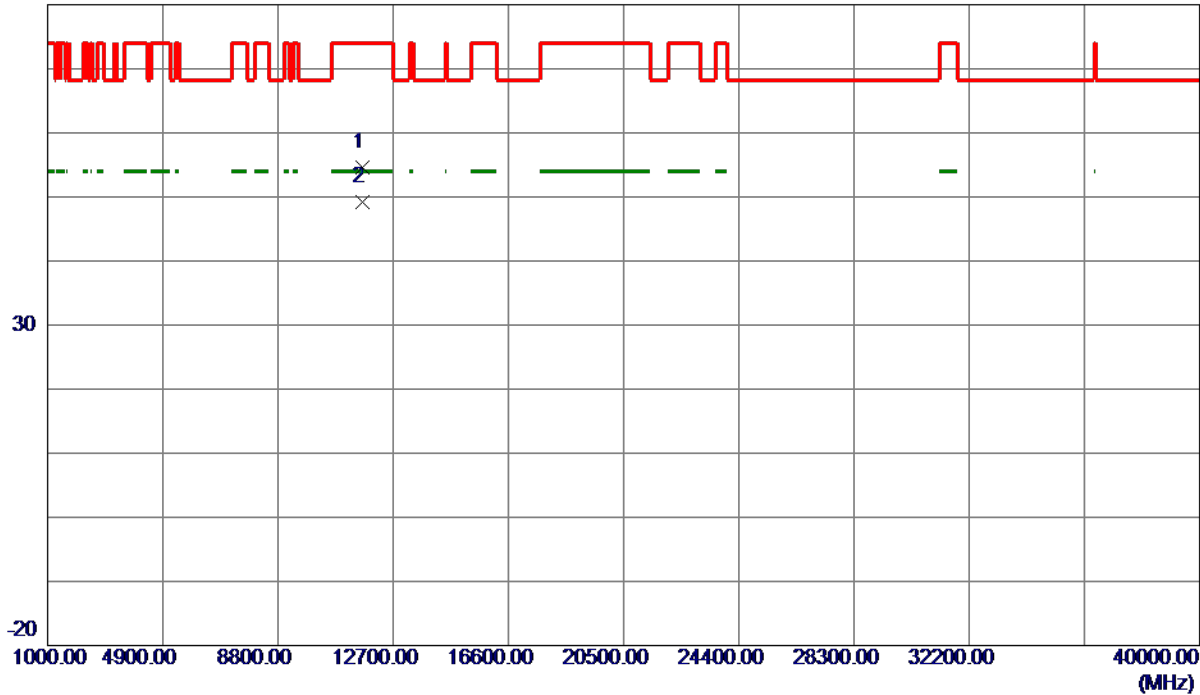
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX A Mode 5825 MHz

Horizontal

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	11649.7250	37.29	17.23	54.52	74.00	-19.48	Peak	
2 *	11649.7550	31.99	17.23	49.22	54.00	-4.78	AVG	

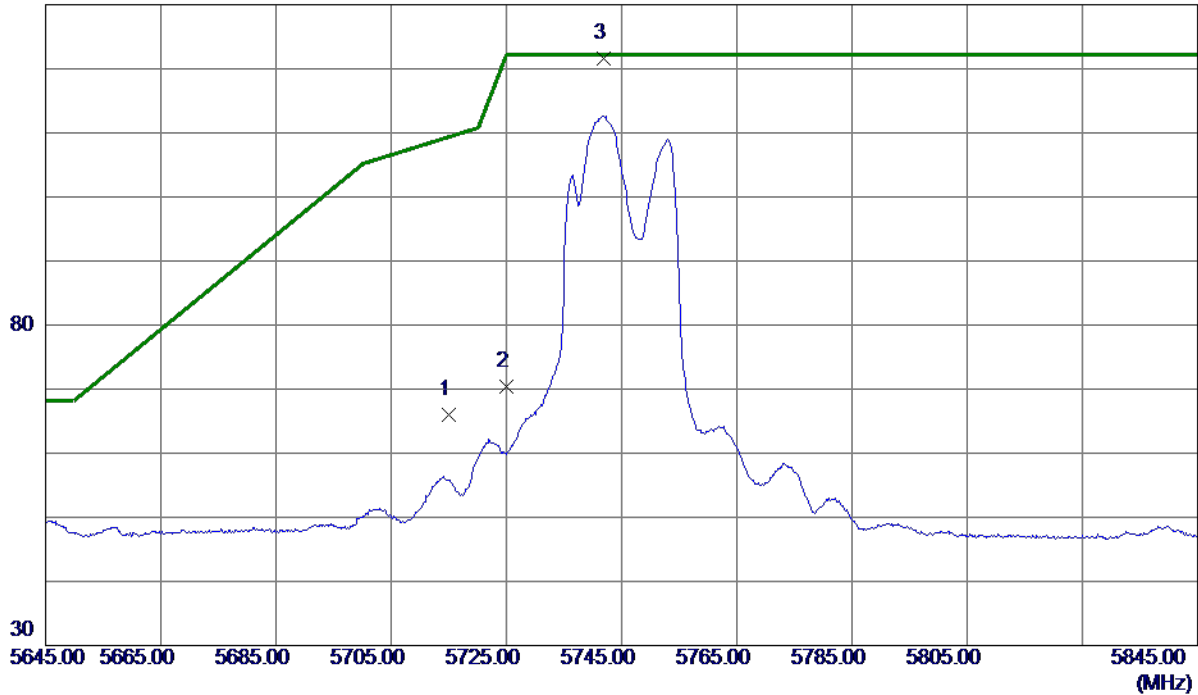
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT20) Mode 5745 MHz

Vertical

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	5715.0000	47.35	18.65	66.00	109.40	-43.40	Peak	
2	5725.0000	51.62	18.69	70.31	122.20	-51.89	Peak	
3 *	5741.8000	102.84	18.74	121.58	122.20	-0.62	Peak	No Limit

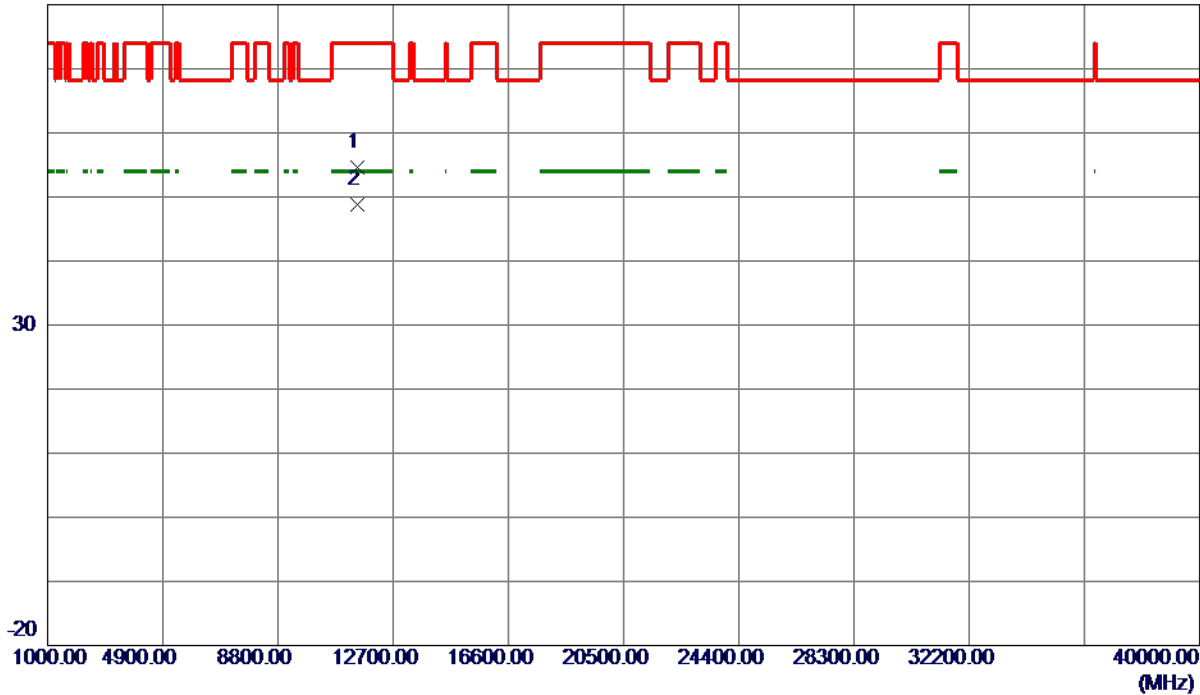
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT20) Mode 5745 MHz

Vertical

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	11489.6730	37.38	17.16	54.54	74.00	-19.46	Peak	
2 *	11489.8170	31.63	17.16	48.79	54.00	-5.21	AVG	

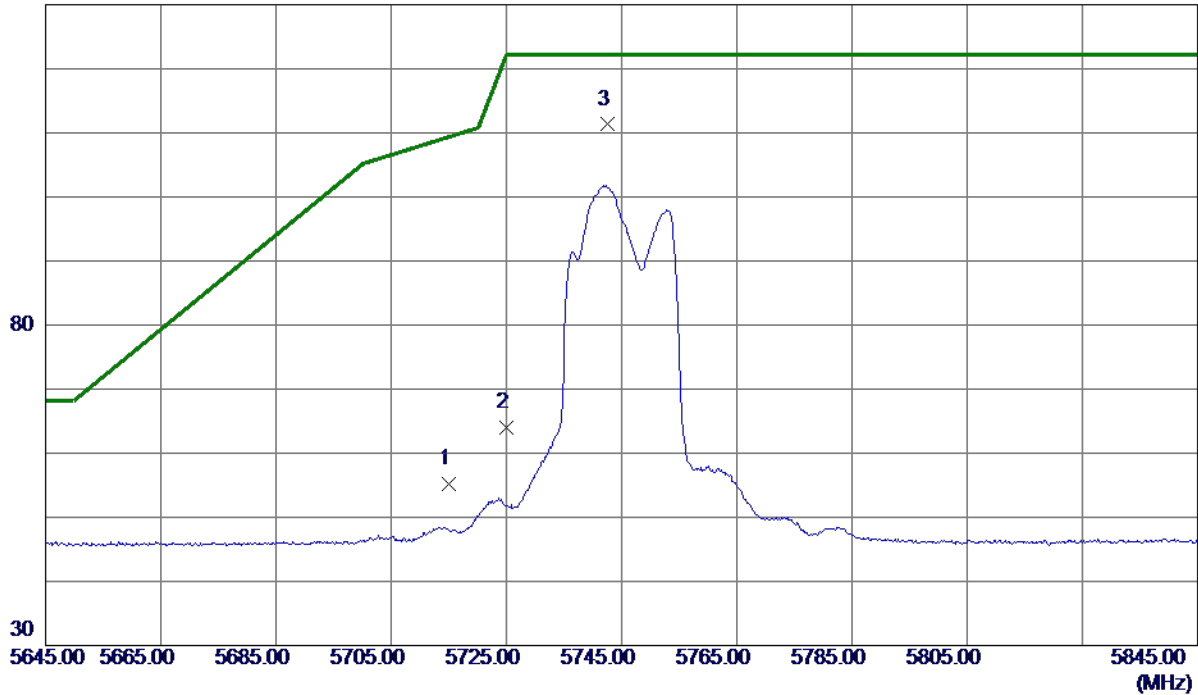
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT20) Mode 5745 MHz

Horizontal

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	5715.0000	36.48	18.65	55.13	109.40	-54.27	Peak	
2	5725.0000	45.39	18.69	64.08	122.20	-58.12	Peak	
3 *	5742.6000	92.56	18.74	111.30	122.20	-10.90	Peak	No Limit

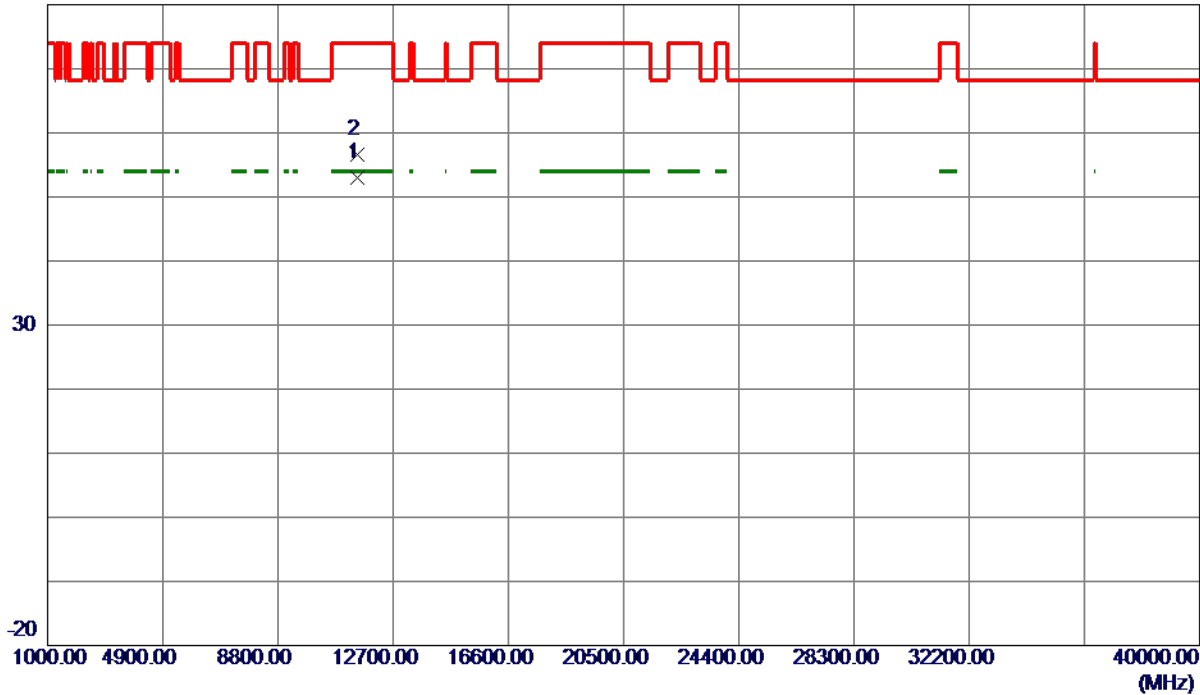
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT20) Mode 5745 MHz

Horizontal

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 *	11489.7150	35.76	17.16	52.92	54.00	-1.08	AVG	
2	11489.7699	39.52	17.16	56.68	74.00	-17.32	Peak	

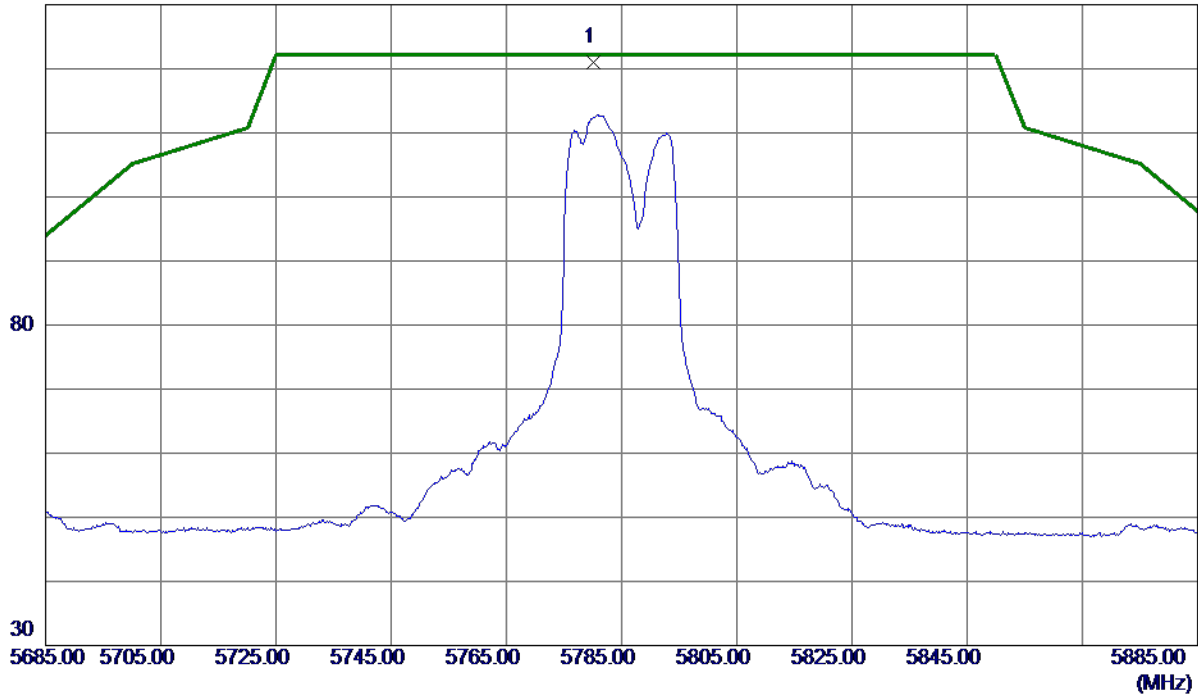
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT20) Mode 5785 MHz

Vertical

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 *	5780.1000	102.11	18.87	120.98	122.20	-1.22	Peak	No Limit

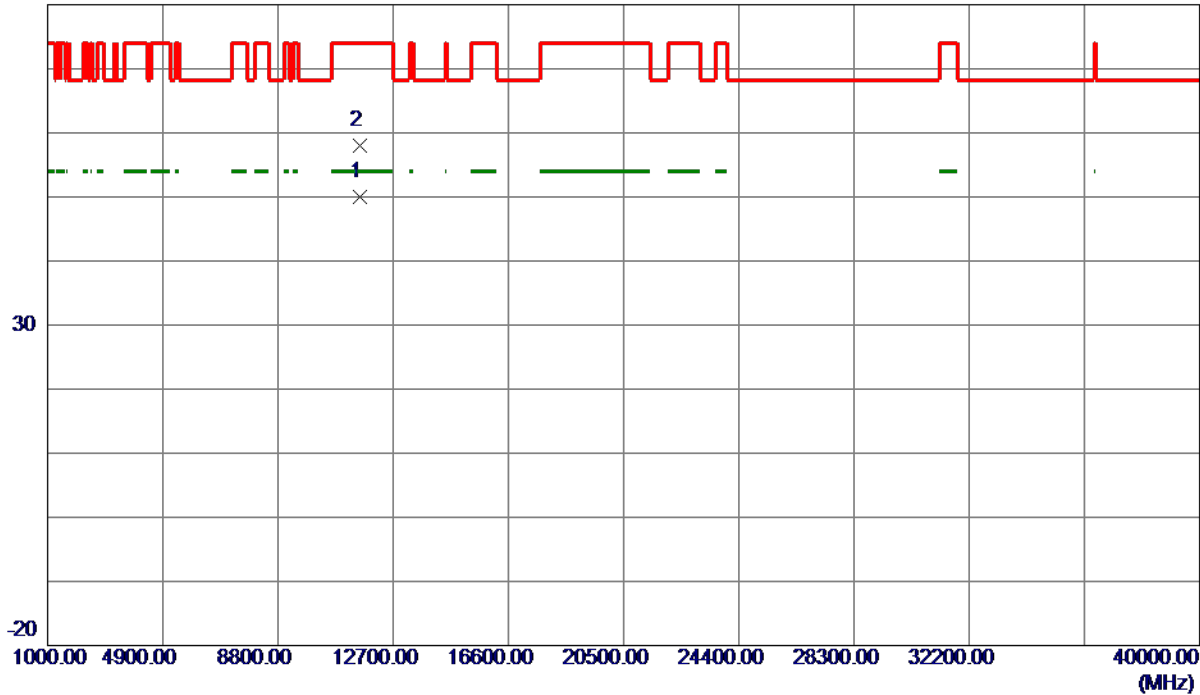
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT20) Mode 5785 MHz

Vertical

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 *	11569.7720	32.71	17.20	49.91	54.00	-4.09	AVG	
2	11570.0870	40.78	17.20	57.98	74.00	-16.02	Peak	

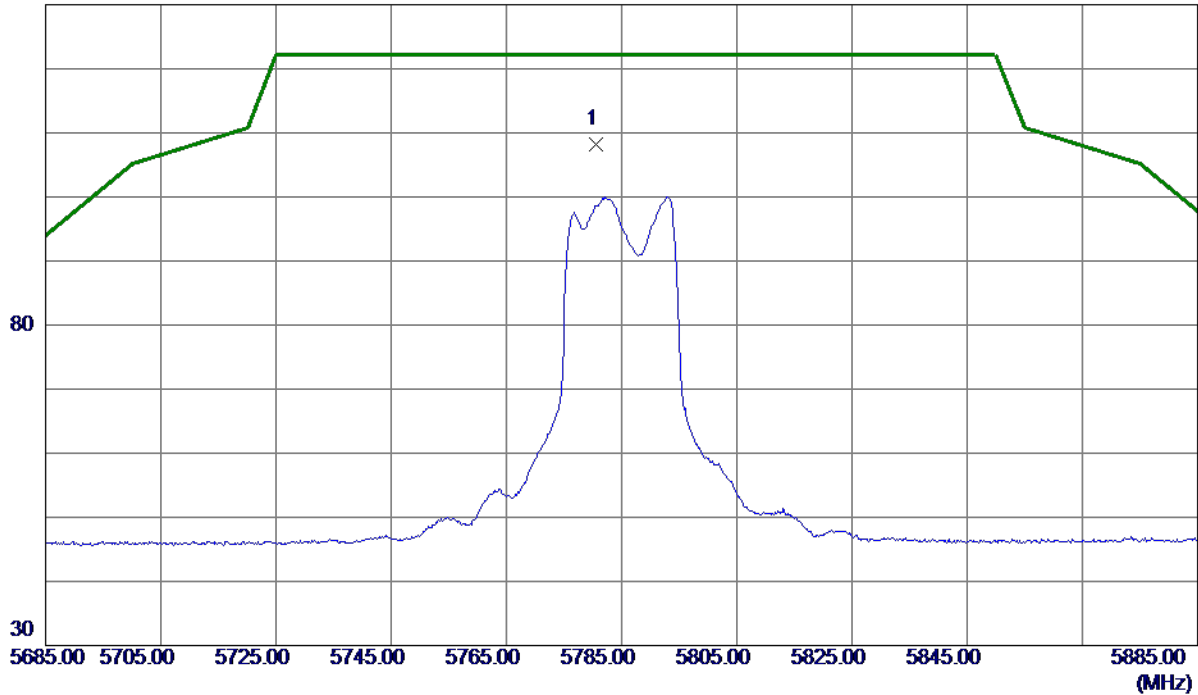
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT20) Mode 5785 MHz

Horizontal

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 *	5780.6000	89.38	18.87	108.25	122.20	-13.95	Peak	No Limit

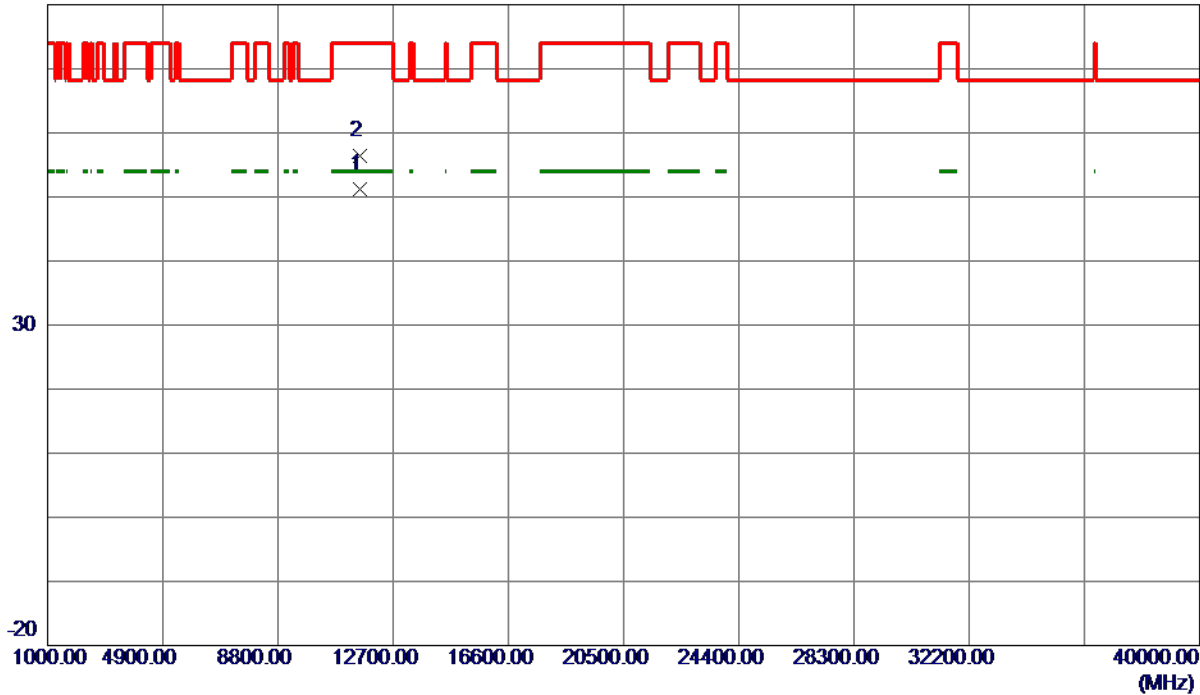
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT20) Mode 5785 MHz

Horizontal

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 *	11569.6849	34.00	17.20	51.20	54.00	-2.80	AVG	
2	11569.8050	39.21	17.20	56.41	74.00	-17.59	Peak	

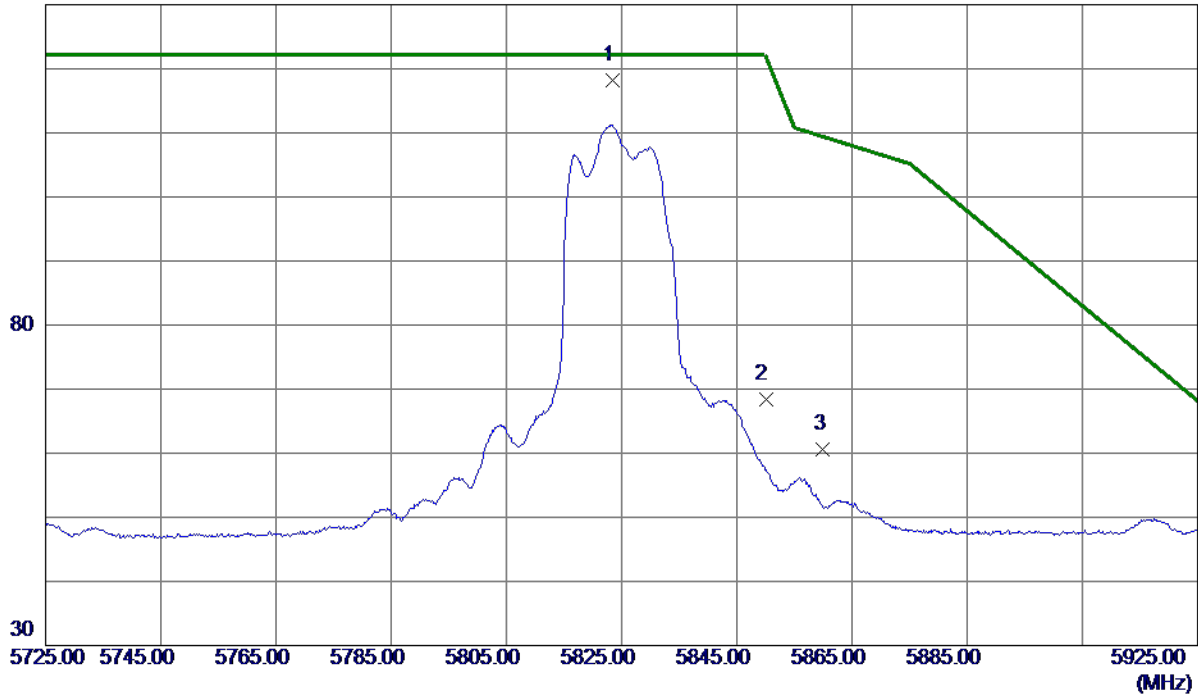
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT20) Mode 5825 MHz

Vertical

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 *	5823.5000	99.10	19.01	118.11	122.20	-4.09	Peak	No Limit
2	5850.0000	49.24	19.09	68.33	122.20	-53.87	Peak	
3	5860.0000	41.42	19.13	60.55	109.40	-48.85	Peak	

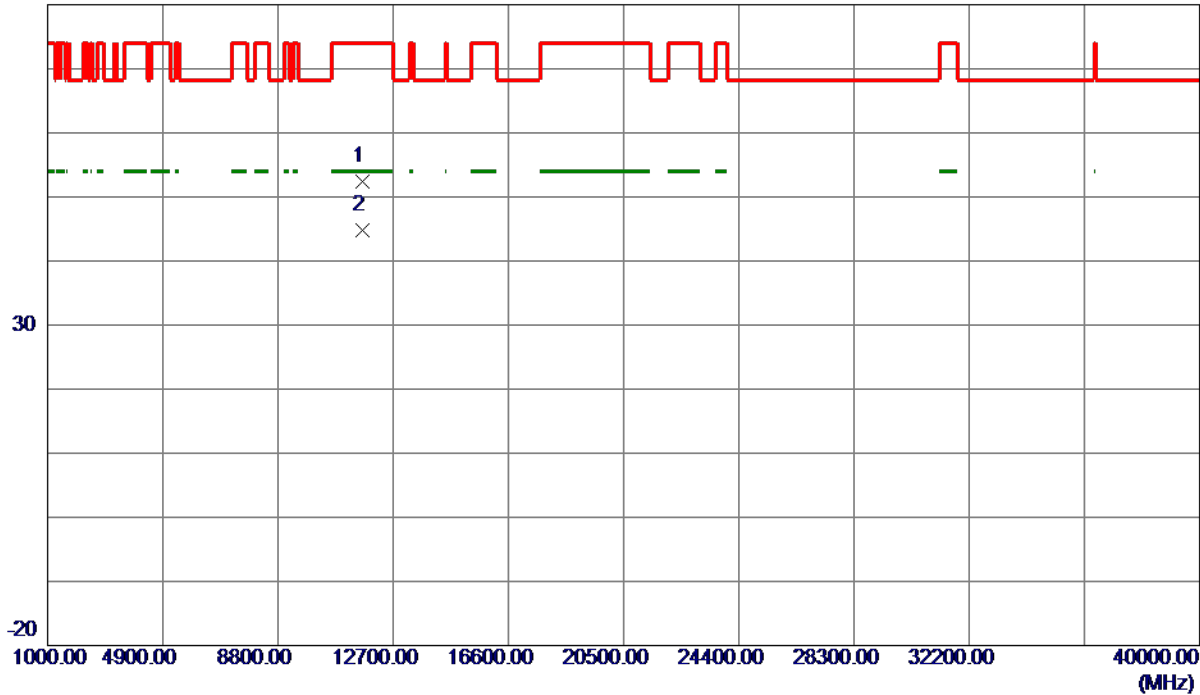
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT20) Mode 5825 MHz

Vertical

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	11649.4480	35.26	17.23	52.49	74.00	-21.51	Peak	
2 *	11649.6900	27.54	17.23	44.77	54.00	-9.23	AVG	

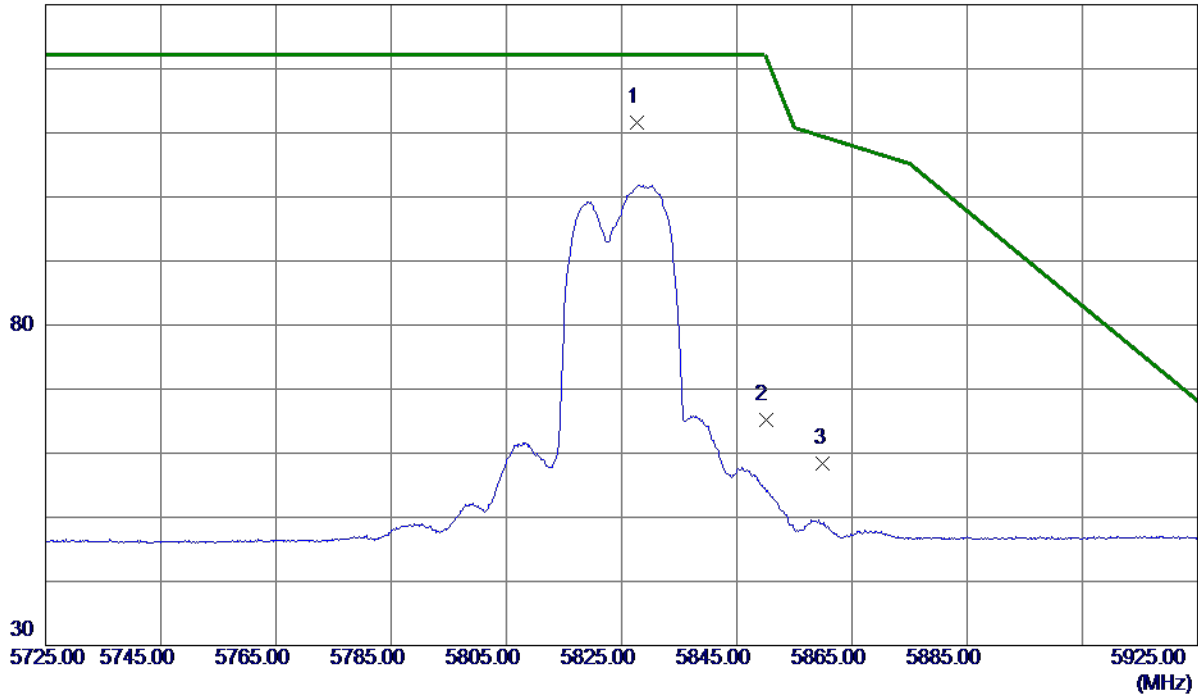
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT20) Mode 5825 MHz

Horizontal

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 *	5827.6000	92.64	19.02	111.66	122.20	-10.54	Peak	No Limit
2	5850.0000	46.17	19.09	65.26	122.20	-56.94	Peak	
3	5860.0000	39.31	19.13	58.44	109.40	-50.96	Peak	

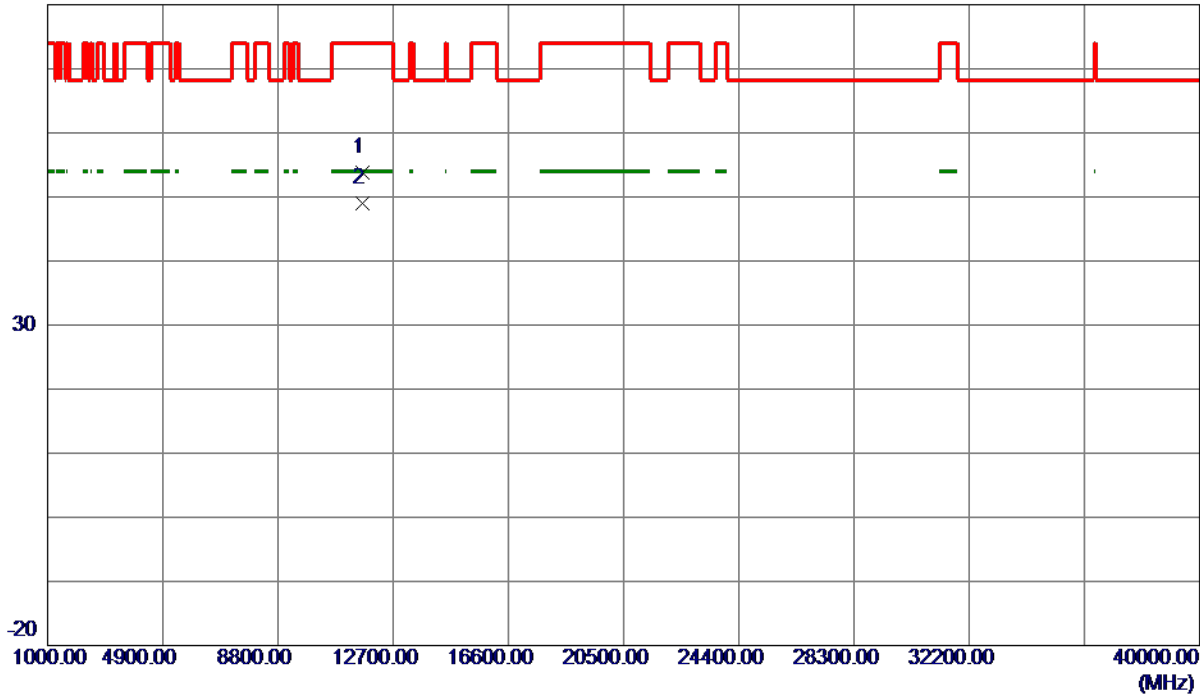
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT20) Mode 5825 MHz

Horizontal

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	11649.7670	36.66	17.23	53.89	74.00	-20.11	Peak	
2 *	11649.7800	31.71	17.23	48.94	54.00	-5.06	AVG	

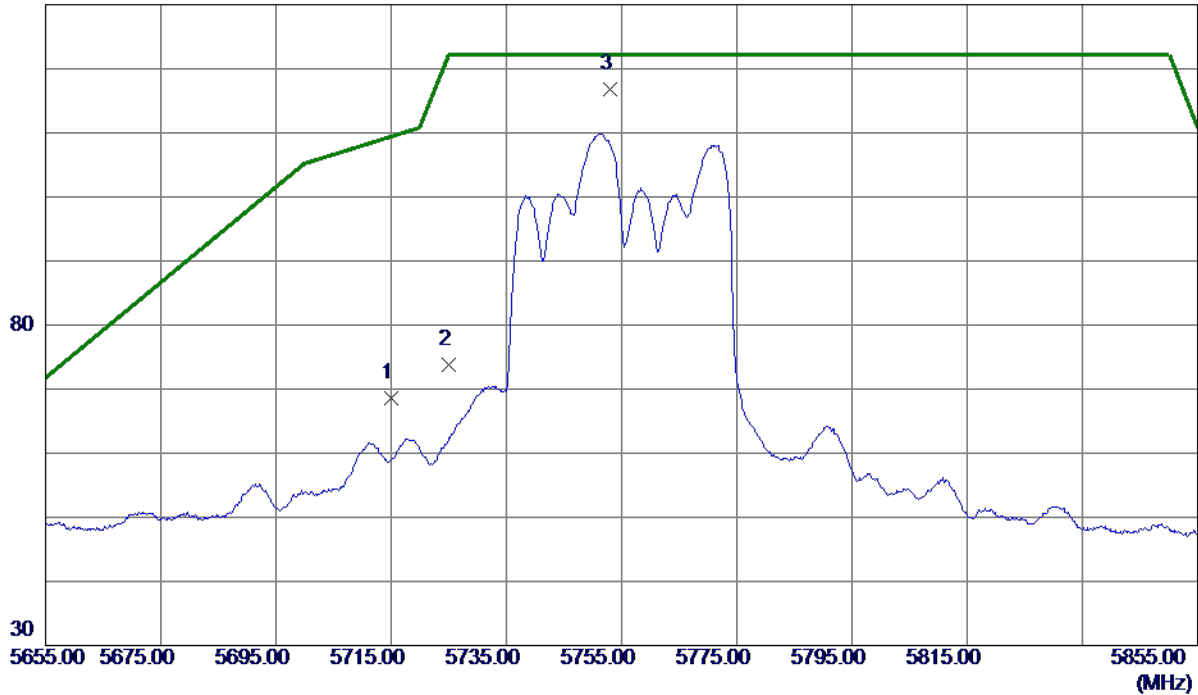
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT40) Mode 5755 MHz

Vertical

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	5715.0000	49.91	18.65	68.56	109.40	-40.84	Peak	
2	5725.0000	55.15	18.69	73.84	122.20	-48.36	Peak	
3 *	5752.9000	97.97	18.78	116.75	122.20	-5.45	Peak	No Limit

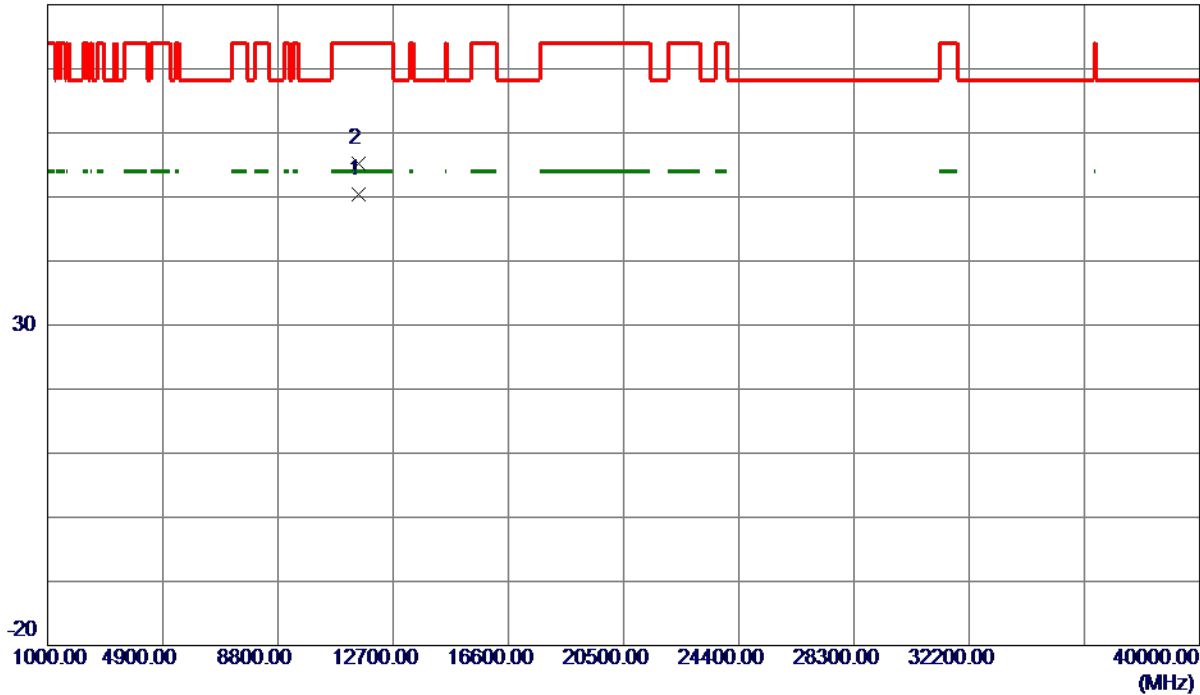
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT40) Mode 5755 MHz

Vertical

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 *	11509.7670	33.16	17.18	50.34	54.00	-3.66	AVG	
2	11509.8450	37.98	17.18	55.16	74.00	-18.84	Peak	

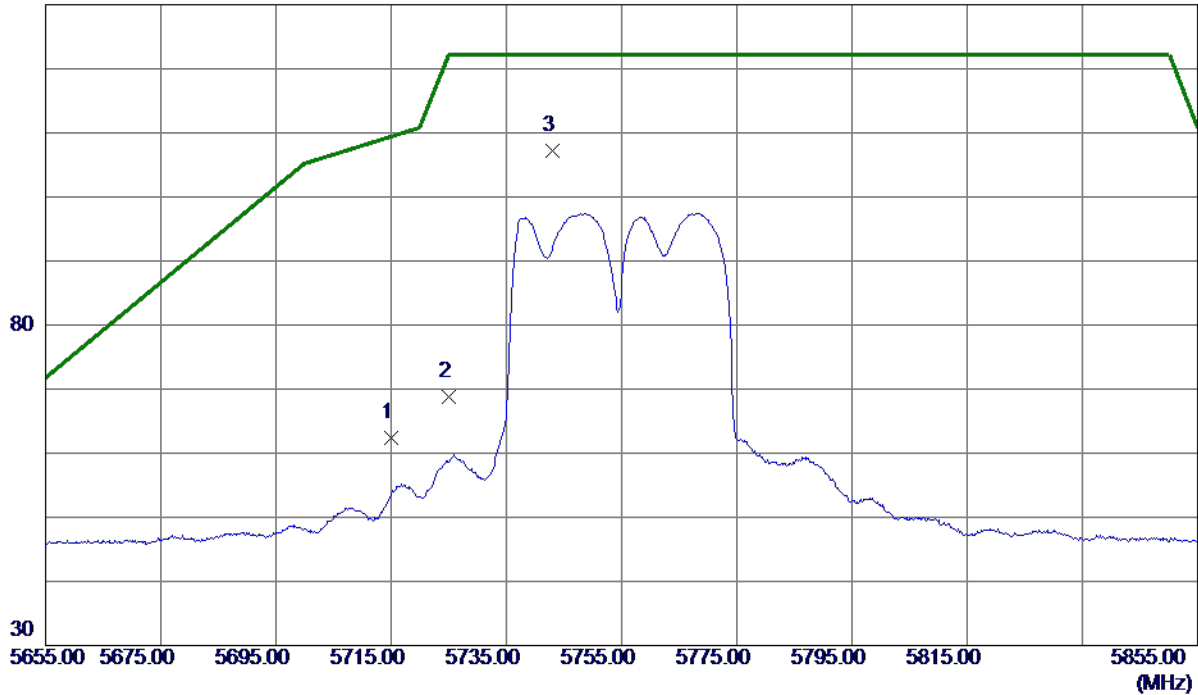
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT40) Mode 5755 MHz

Horizontal

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	5715.0000	43.76	18.65	62.41	109.40	-46.99	Peak	
2	5725.0000	50.06	18.69	68.75	122.20	-53.45	Peak	
3 *	5743.1000	88.52	18.75	107.27	122.20	-14.93	Peak	No Limit

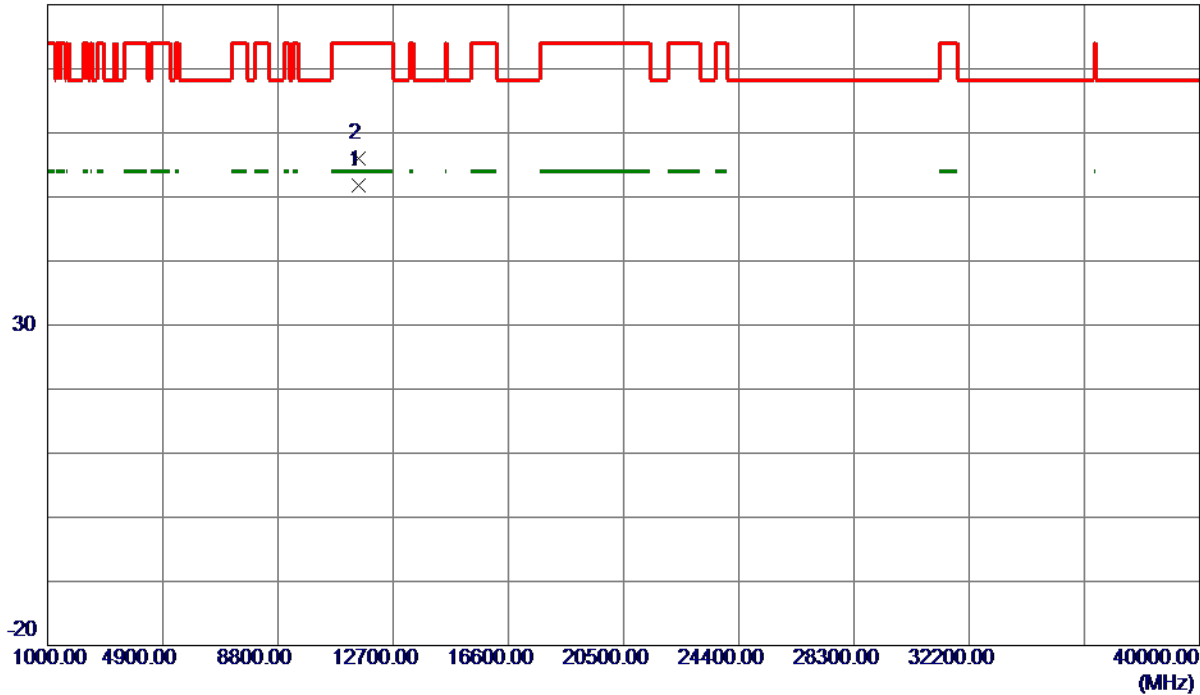
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT40) Mode 5755 MHz

Horizontal

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 *	11509.7180	34.66	17.18	51.84	54.00	-2.16	AVG	
2	11509.7900	38.82	17.18	56.00	74.00	-18.00	Peak	

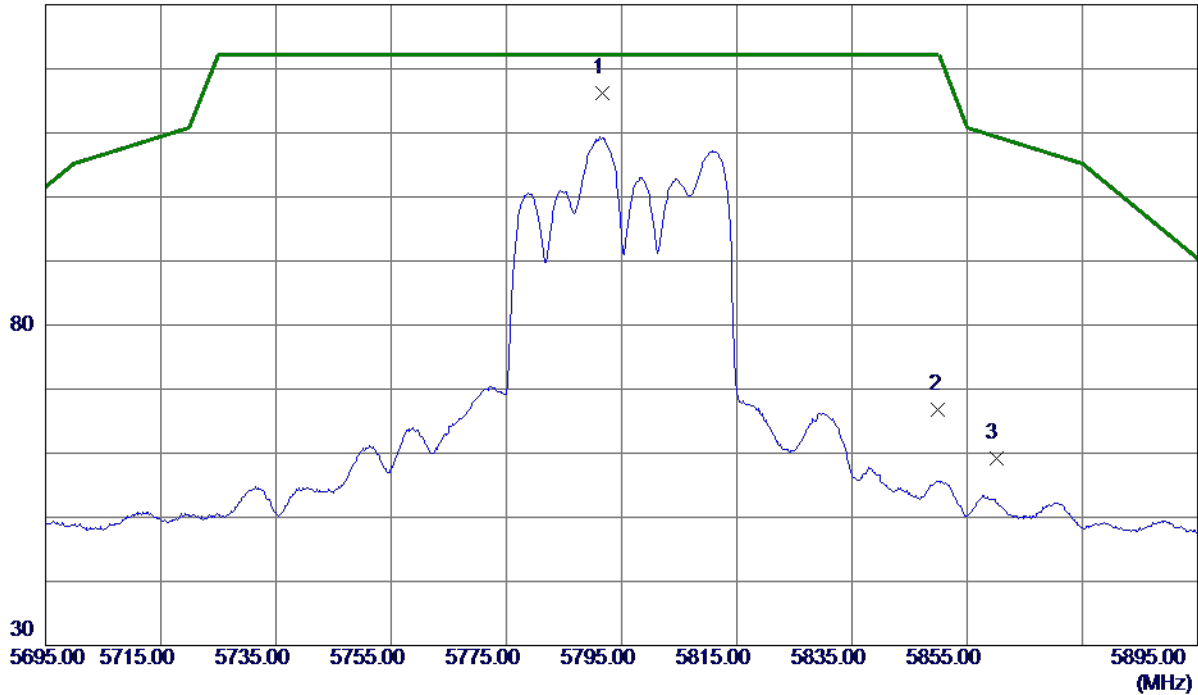
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT40) Mode 5795 MHz

Vertical

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 *	5791.7000	97.27	18.90	116.17	122.20	-6.03	Peak	No Limit
2	5850.0000	47.66	19.09	66.75	122.20	-55.45	Peak	
3	5860.0000	40.06	19.13	59.19	109.40	-50.21	Peak	

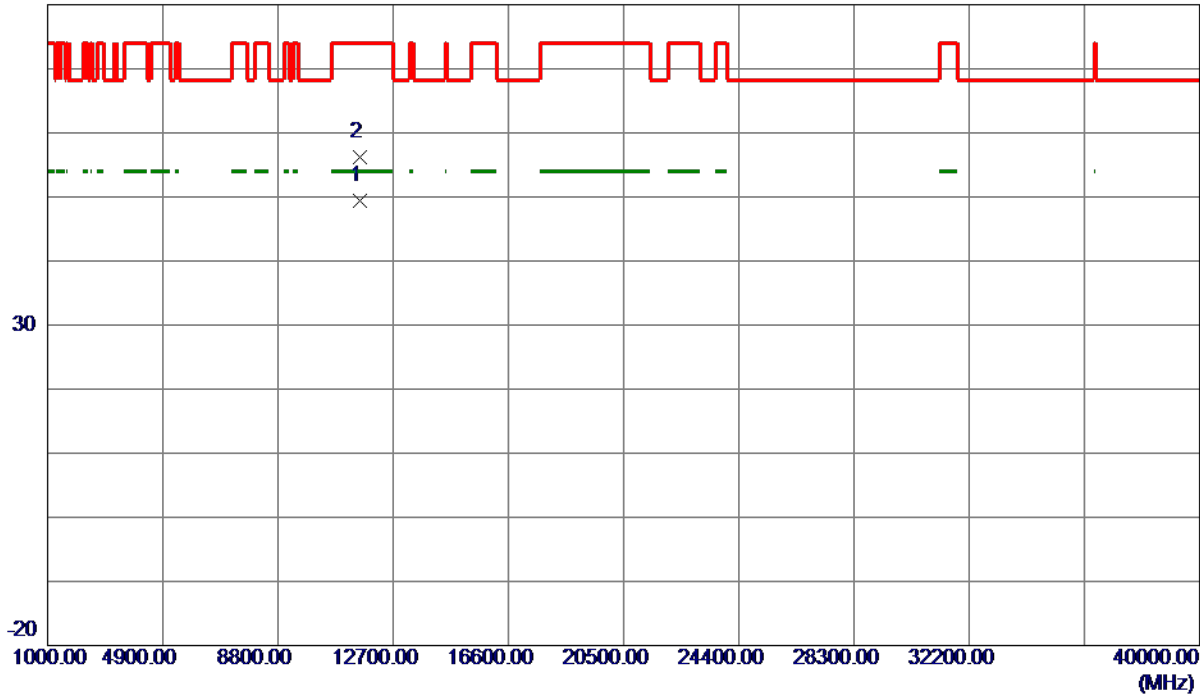
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT40) Mode 5795 MHz

Vertical

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 *	11589.7400	32.24	17.21	49.45	54.00	-4.55	AVG	
2	11589.9100	38.92	17.21	56.13	74.00	-17.87	Peak	

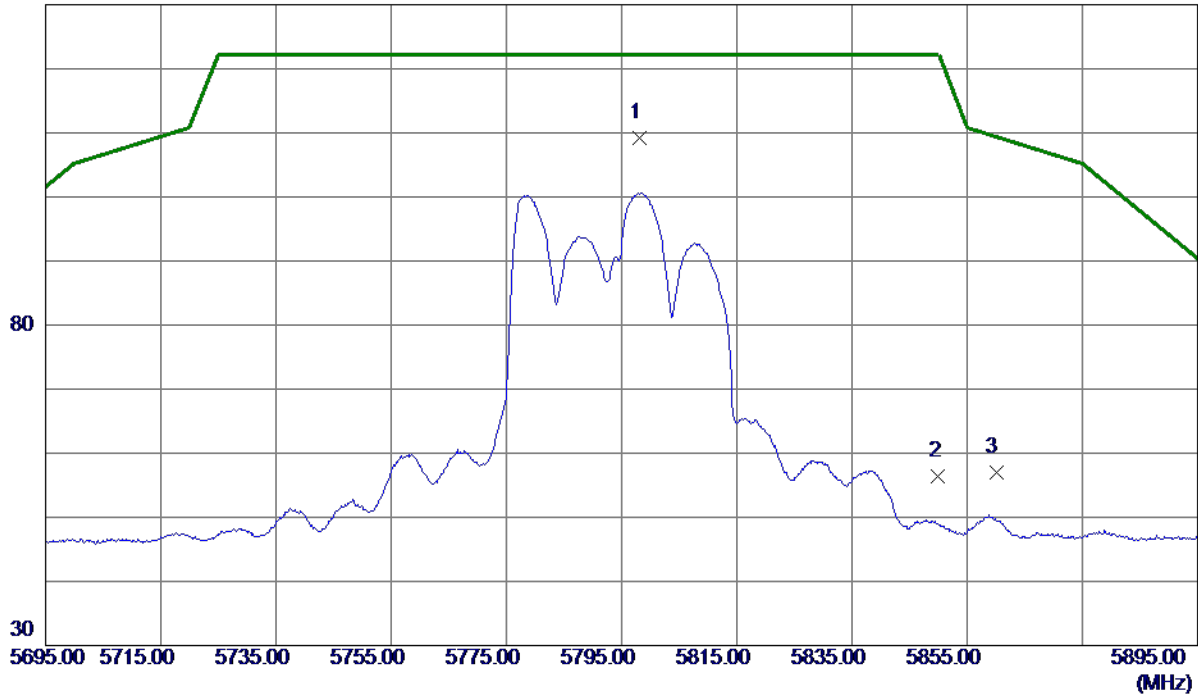
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT40) Mode 5795 MHz

Horizontal

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 *	5798.1000	90.31	18.92	109.23	122.20	-12.97	Peak	No Limit
2	5850.0000	37.24	19.09	56.33	122.20	-65.87	Peak	
3	5860.0000	37.84	19.13	56.97	109.40	-52.43	Peak	

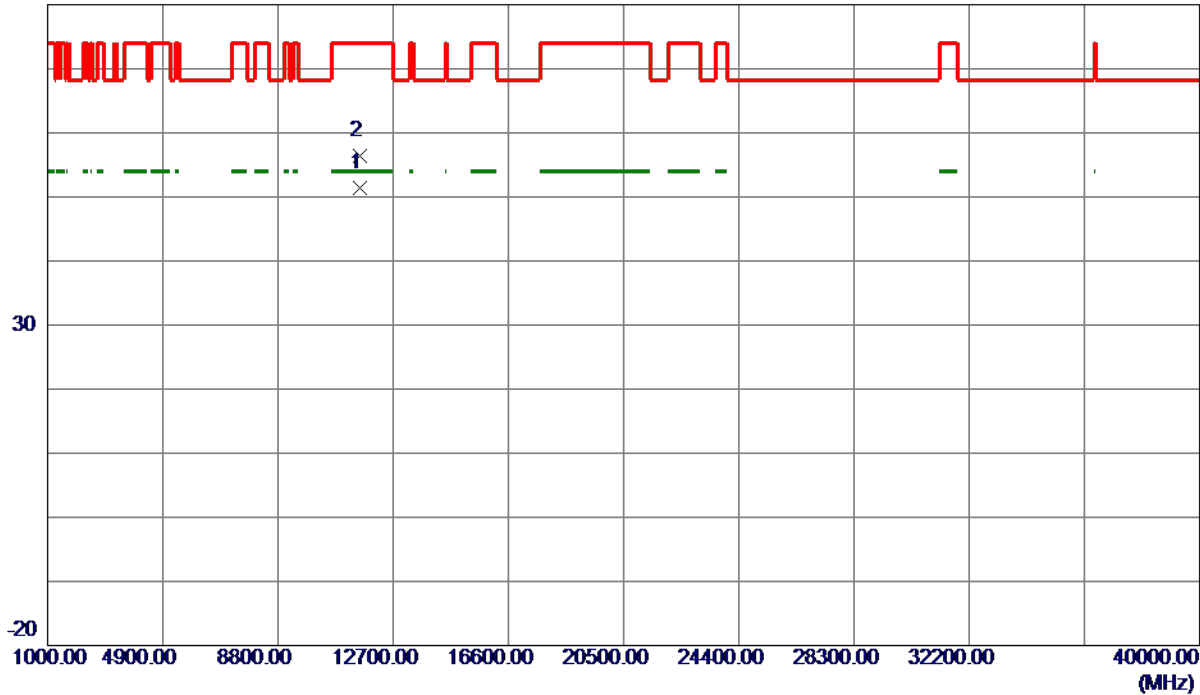
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT40) Mode 5795 MHz

Horizontal

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 *	11589.7470	34.13	17.21	51.34	54.00	-2.66	AVG	
2	11589.7720	39.26	17.21	56.47	74.00	-17.53	Peak	

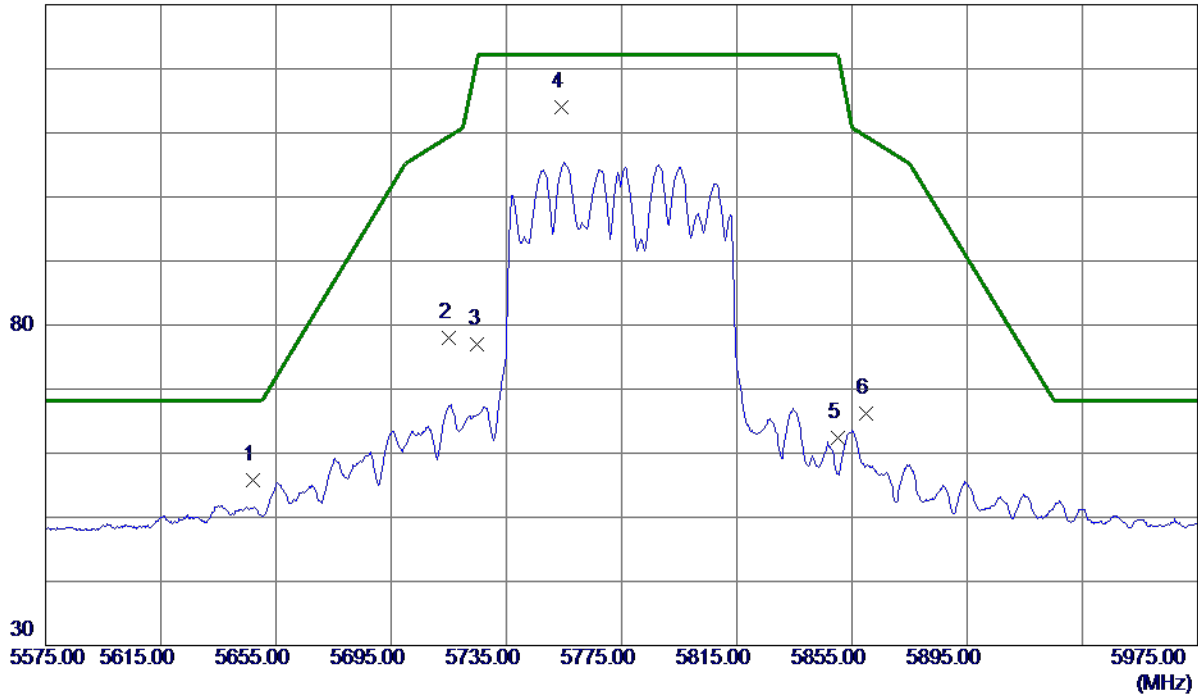
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT80) Mode 5775 MHz

Vertical

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	5647.0000	37.40	18.43	55.83	68.20	-12.37	Peak	
2	5715.0000	59.34	18.65	77.99	109.40	-31.41	Peak	
3	5725.0000	58.34	18.69	77.03	122.20	-45.17	Peak	
4 *	5754.2000	95.13	18.78	113.91	122.20	-8.29	Peak	No Limit
5	5850.0000	43.28	19.09	62.37	122.20	-59.83	Peak	
6	5860.0000	47.01	19.13	66.14	109.40	-43.26	Peak	

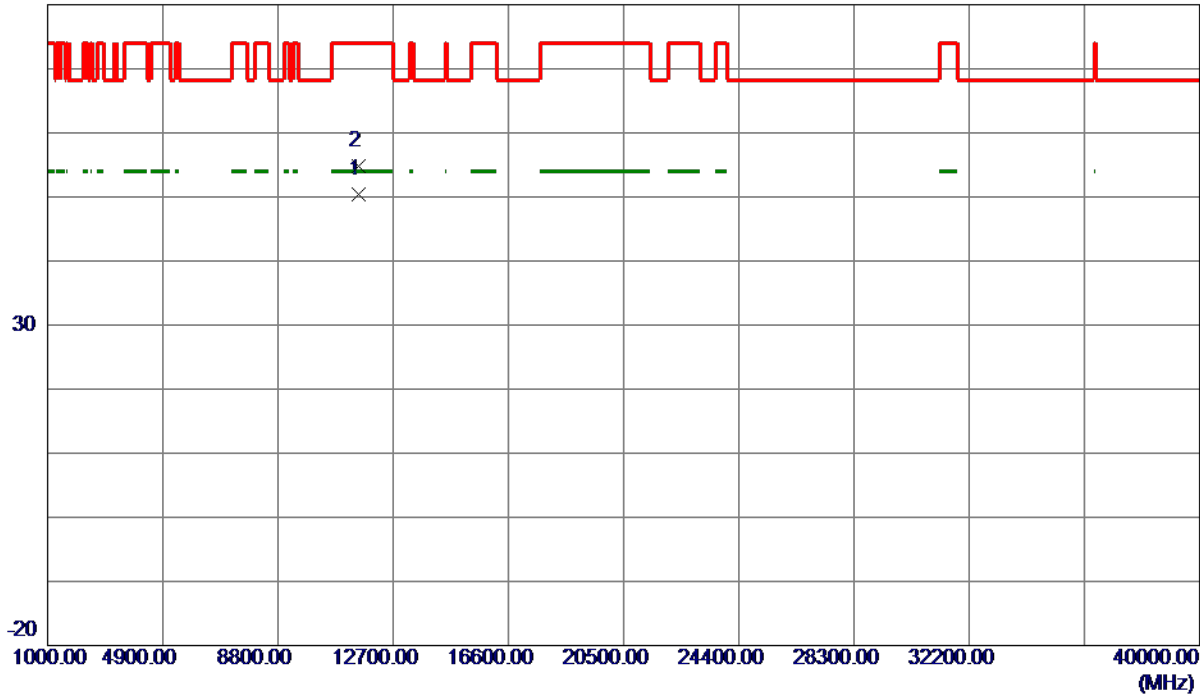
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT80) Mode 5775 MHz

Vertical

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 *	11549.7150	33.13	17.20	50.33	54.00	-3.67	AVG	
2	11549.7330	37.64	17.20	54.84	74.00	-19.16	Peak	

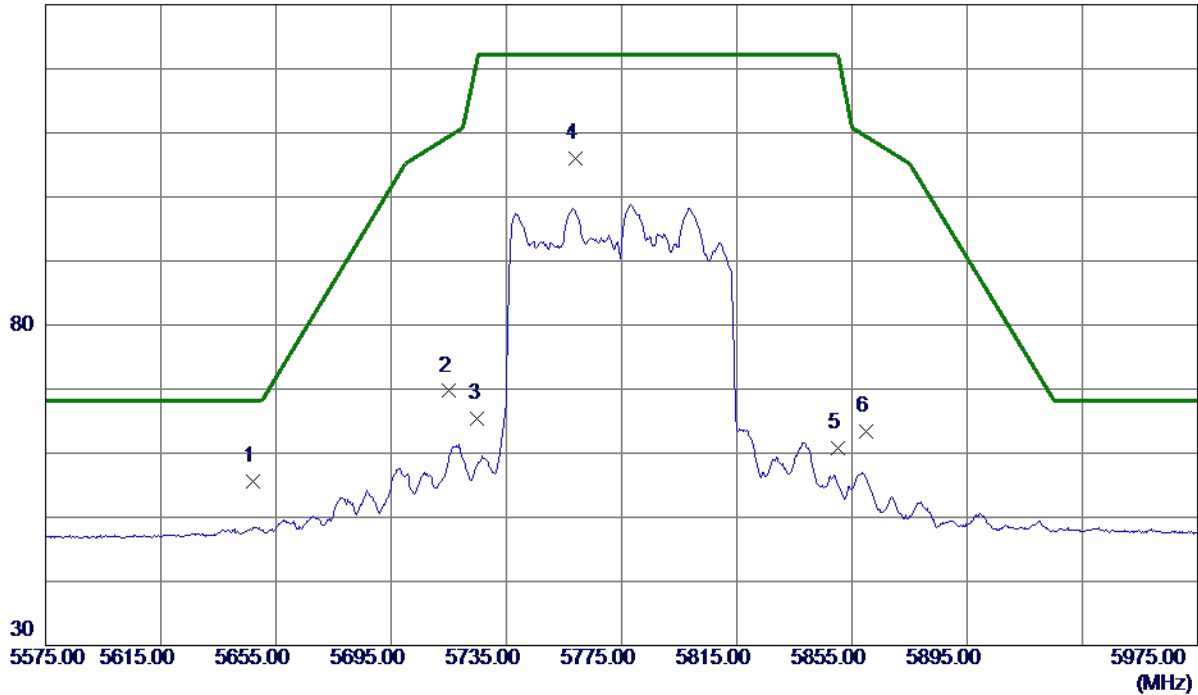
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT80) Mode 5775 MHz

Horizontal

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 *	5647.0000	37.20	18.43	55.63	68.20	-12.57	Peak	
2	5715.0000	51.05	18.65	69.70	109.40	-39.70	Peak	
3	5725.0000	46.64	18.69	65.33	122.20	-56.87	Peak	
4	5758.8000	87.20	18.80	106.00	122.20	-16.20	Peak	No Limit
5	5850.0000	41.65	19.09	60.74	122.20	-61.46	Peak	
6	5860.0000	44.33	19.13	63.46	109.40	-45.94	Peak	

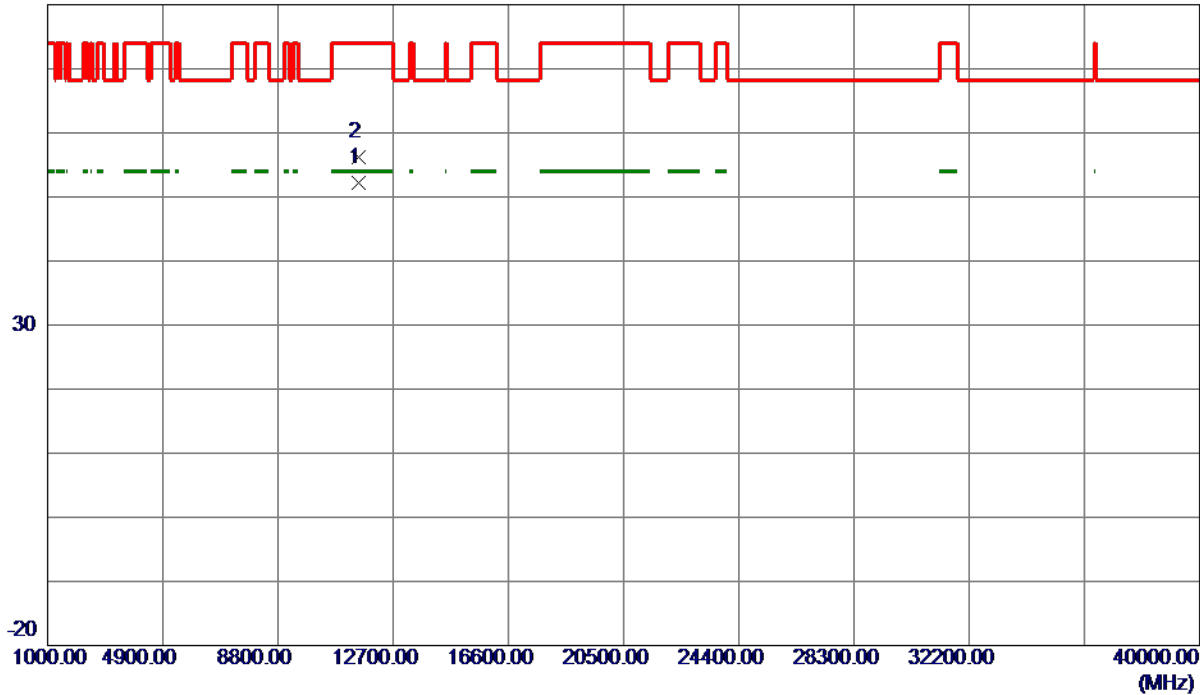
REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AC (VHT80) Mode 5775 MHz

Horizontal

80 dBuV/m

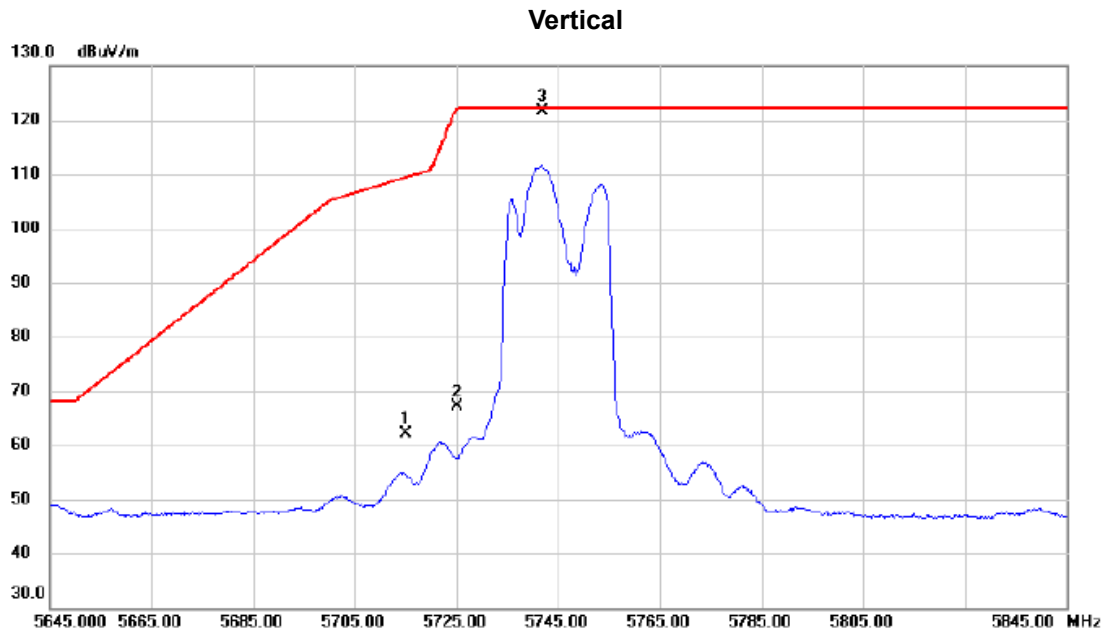


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11549.7670	34.94	17.20	52.14	54.00	-1.86	AVG	
2	11549.8150	38.95	17.20	56.15	74.00	-17.85	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW20) Mode 5745 MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	43.54	18.66	62.20	109.40	-47.20	peak	
2		5725.000	48.55	18.69	67.24	122.20	-54.96	peak	
3	*	5742.000	102.8	18.74	121.56	122.20	-0.64	peak	No Limit

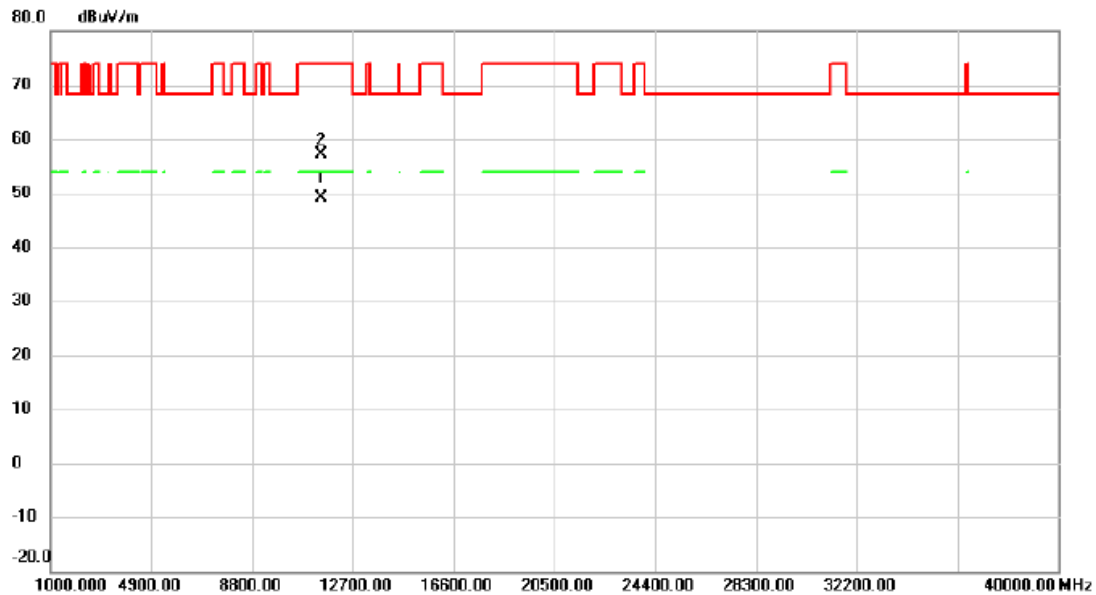
REMARKS:

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

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

Orthogonal Axis	X
Test Mode	TX AX (HEW20) Mode 5745 MHz

Vertical

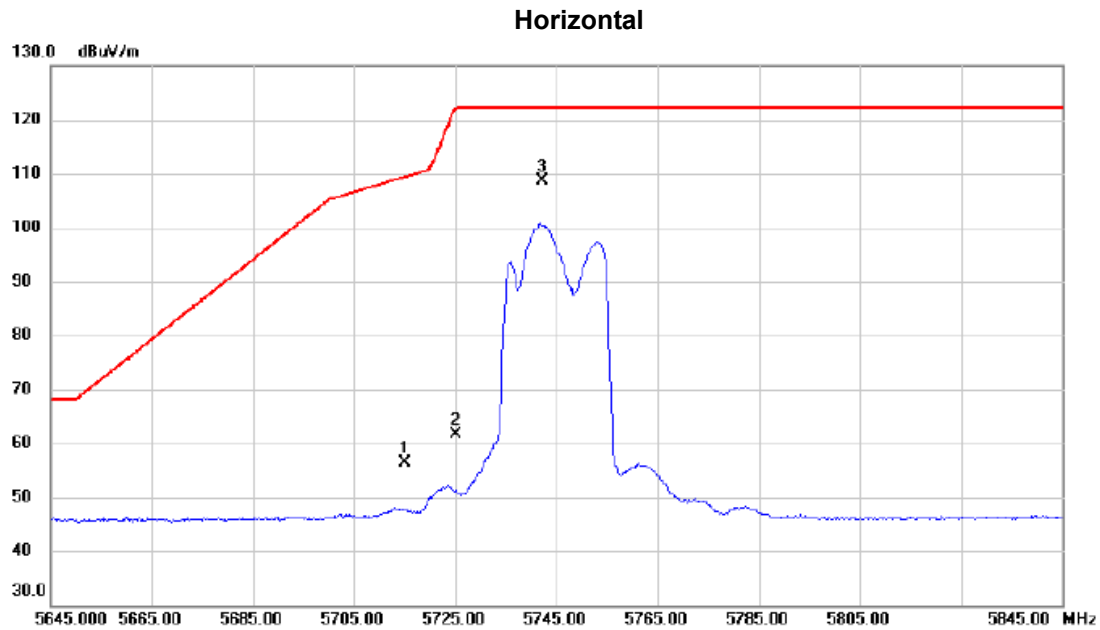


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11489.80	31.89	17.16	49.05	54.00	-4.95	AVG	
2		11492.01	40.07	17.17	57.24	74.00	-16.76	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW20) Mode 5745 MHz



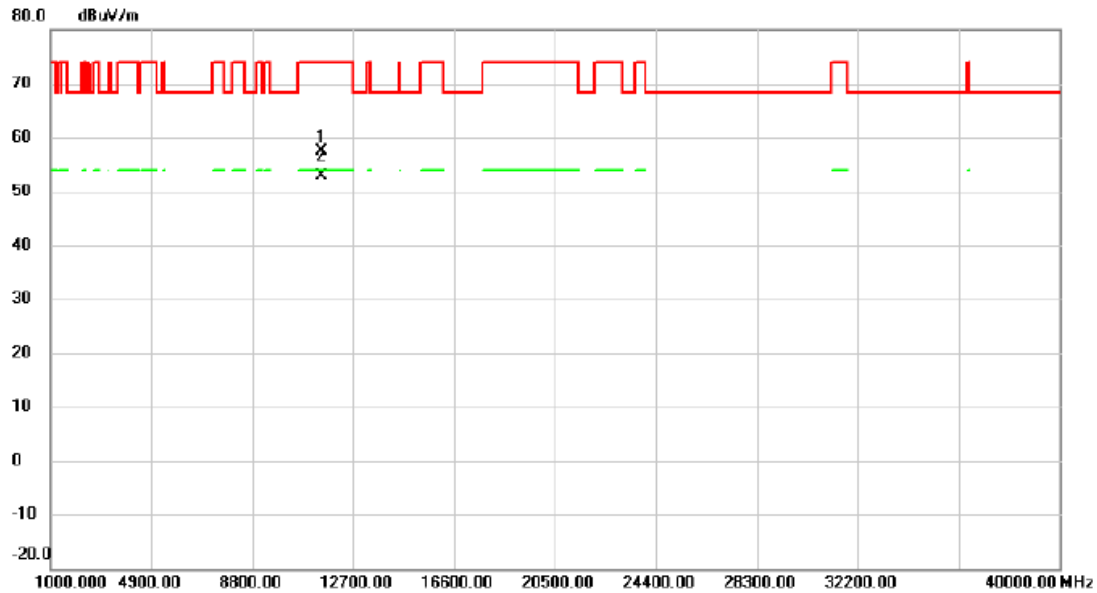
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	37.70	18.66	56.36	109.40	-53.04	peak	
2		5725.000	42.89	18.69	61.58	122.20	-60.62	peak	
3	*	5742.200	89.86	18.74	108.60	122.20	-13.60	peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW20) Mode 5745 MHz

Horizontal

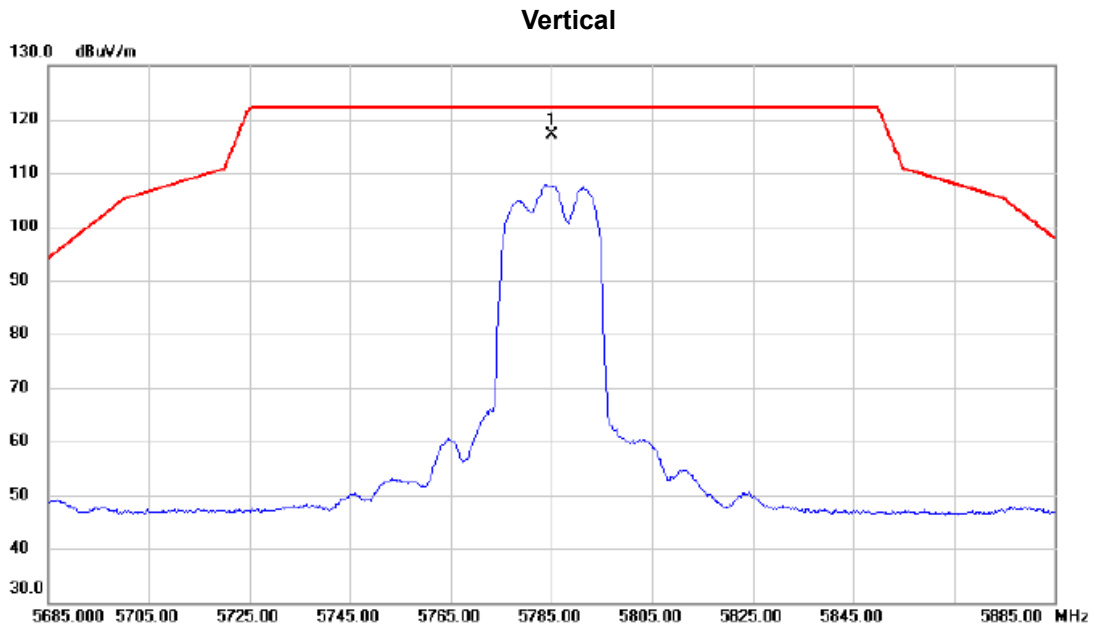


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11489.64	40.15	17.16	57.31	74.00	-16.69	peak	
2	*	11489.79	35.82	17.16	52.98	54.00	-1.02	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW20) Mode 5785 MHz



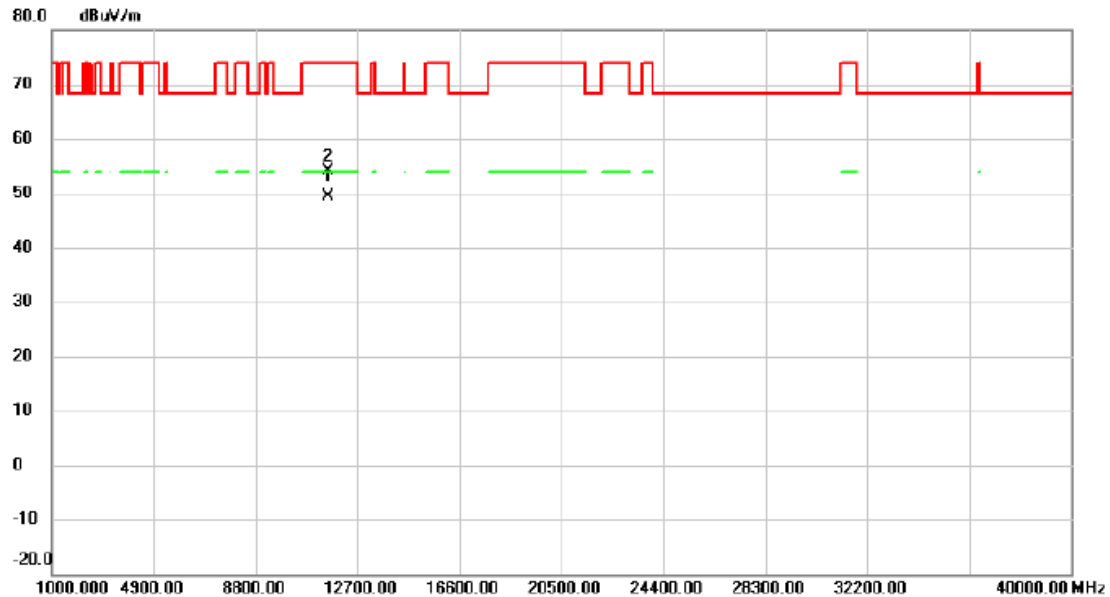
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5785.000	98.30	18.88	117.18	122.20	-5.02	peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW20) Mode 5785 MHz

Vertical

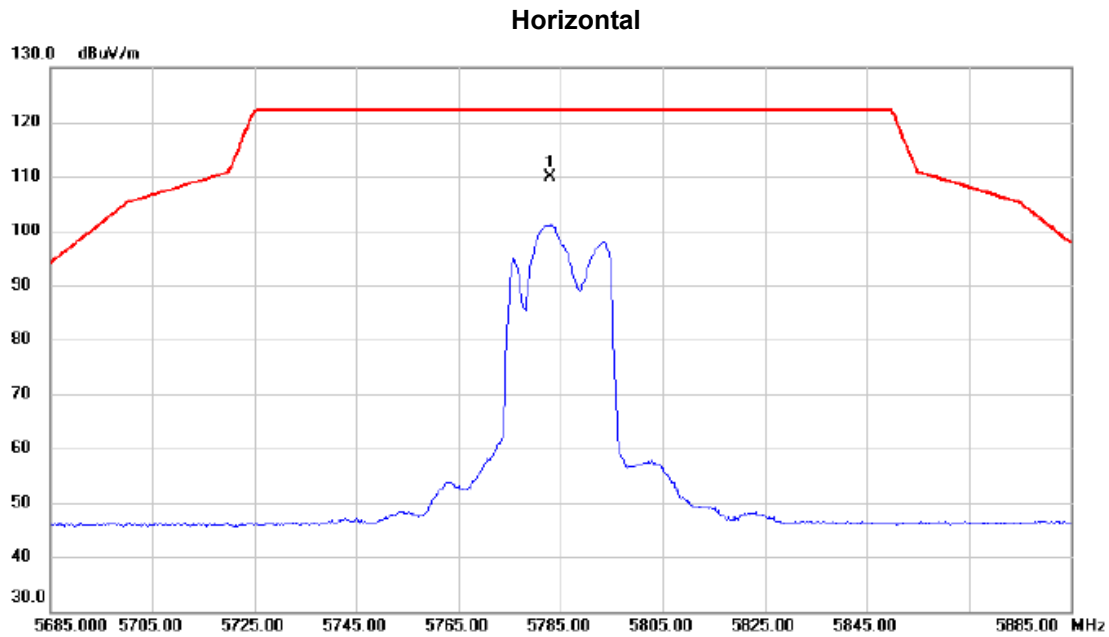


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11569.70	32.27	17.20	49.47	54.00	-4.53	AVG	
2		11569.71	37.03	17.20	54.23	74.00	-19.77	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW20) Mode 5785 MHz



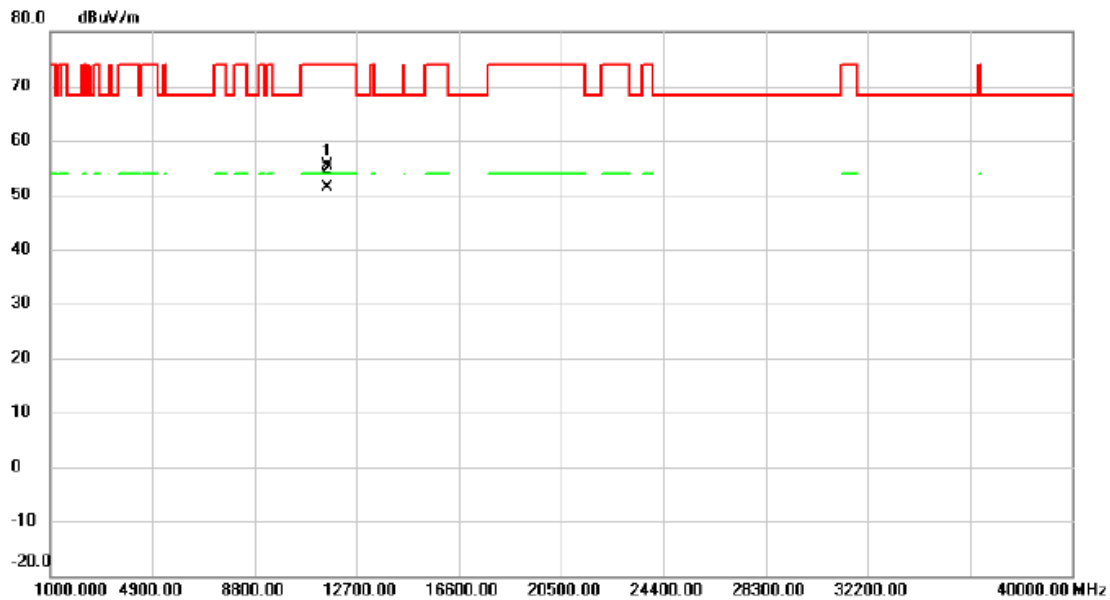
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5783.100	91.11	18.88	109.99	122.20	-12.21	peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW20) Mode 5785 MHz

Horizontal

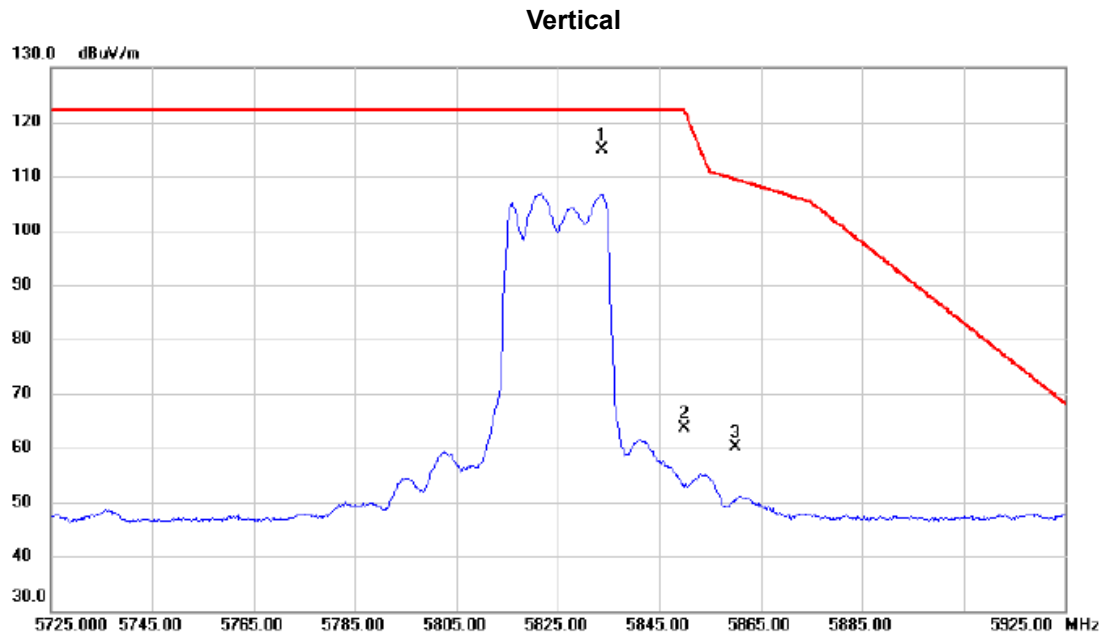


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11569.72	38.20	17.20	55.40	74.00	-18.60	peak	
2	*	11569.79	34.10	17.20	51.30	54.00	-2.70	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW20) Mode 5825 MHz



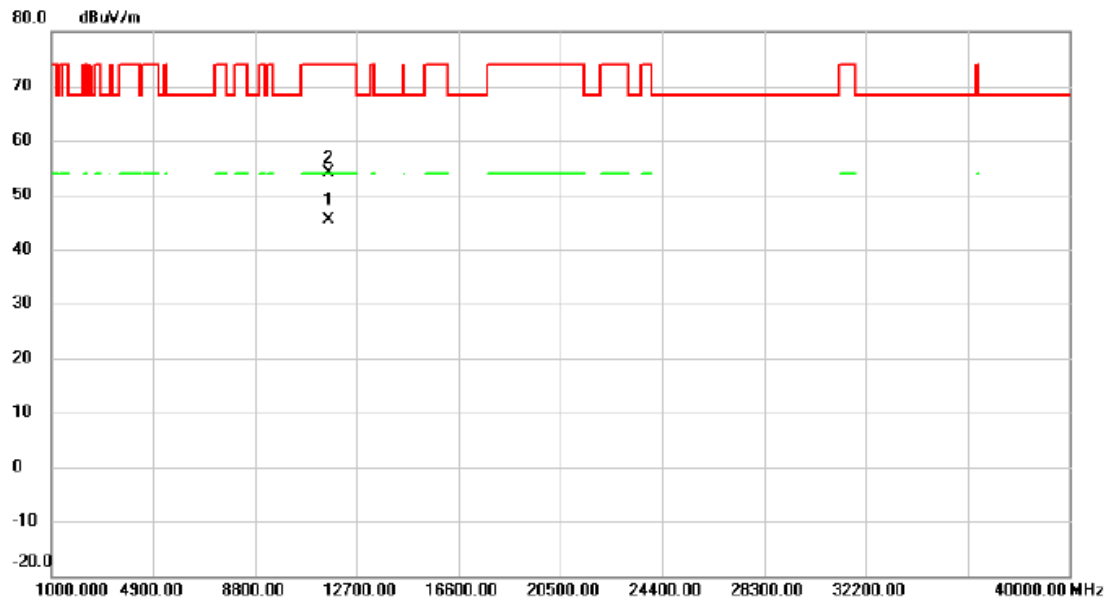
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5833.600	95.78	19.04	114.82	122.20	-7.38	peak	No Limit
2		5850.000	44.55	19.09	63.64	122.20	-58.56	peak	
3		5860.000	40.99	19.12	60.11	109.40	-49.29	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW20) Mode 5825 MHz

Vertical

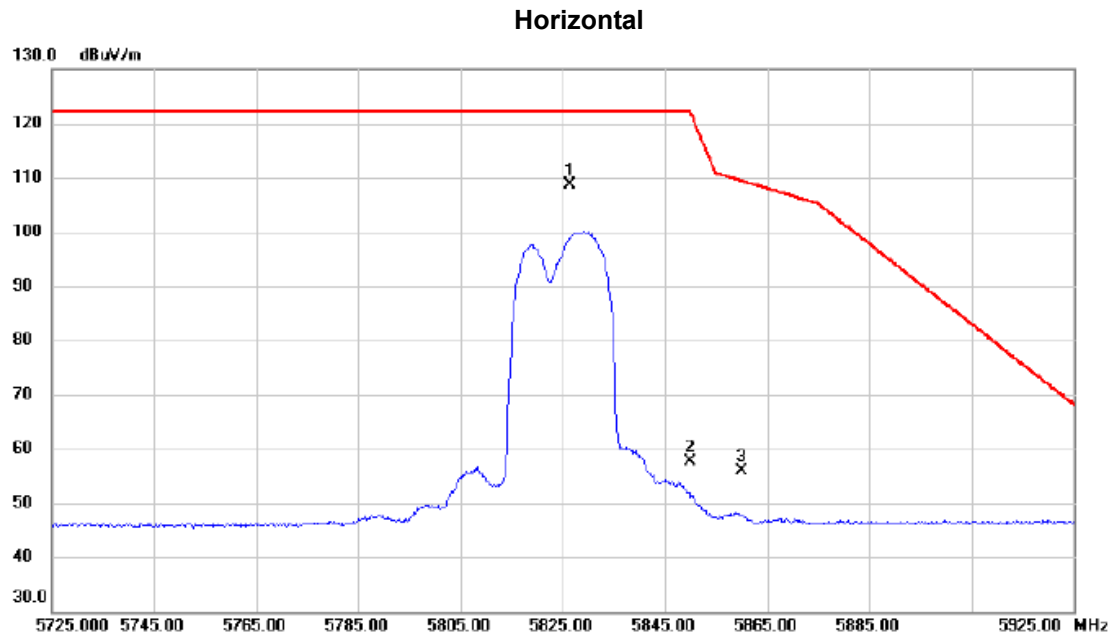


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	11649.69	28.08	17.22	45.30	54.00	-8.70	AVG	
2		11649.88	36.94	17.22	54.16	74.00	-19.84	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW20) Mode 5825 MHz



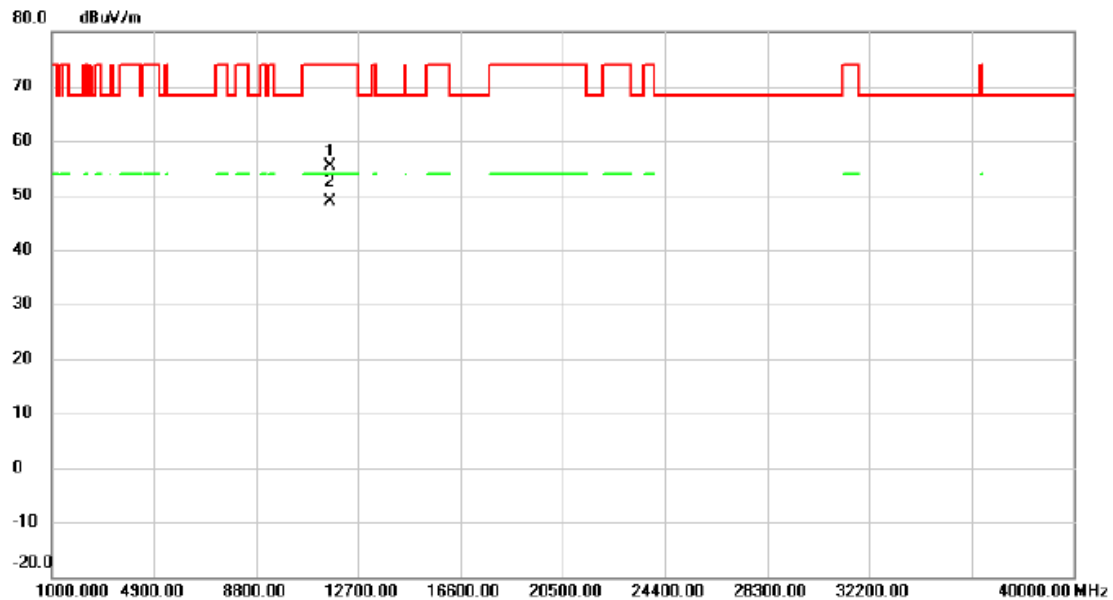
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5826.400	89.69	19.01	108.70	122.20	-13.50	peak	No Limit
2		5850.000	38.66	19.09	57.75	122.20	-64.45	peak	
3		5860.000	36.80	19.12	55.92	109.40	-53.48	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW20) Mode 5825 MHz

Horizontal

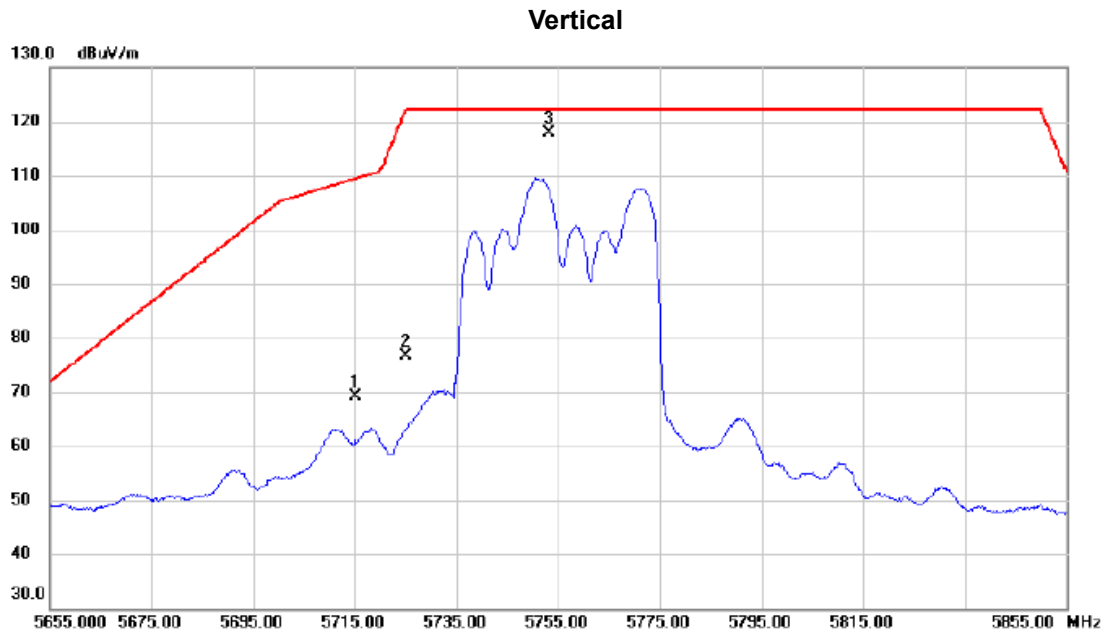


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11649.42	38.21	17.22	55.43	74.00	-18.57	peak	
2	*	11649.74	31.61	17.22	48.83	54.00	-5.17	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW40) Mode 5755 MHz



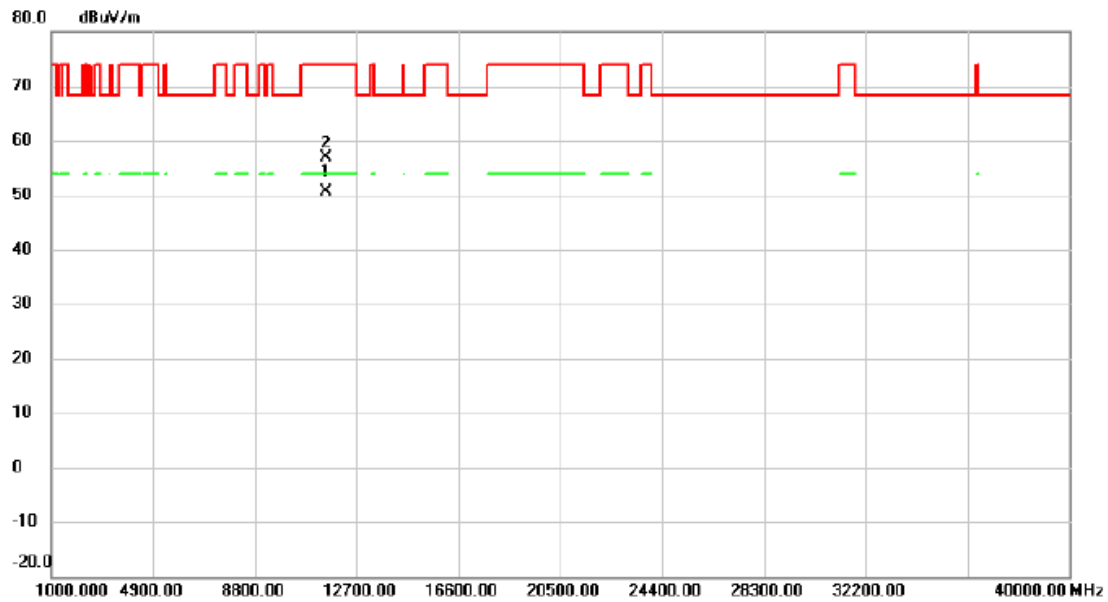
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	50.56	18.66	69.22	109.40	-40.18	peak	
2		5725.000	58.01	18.69	76.70	122.20	-45.50	peak	
3	*	5753.300	99.05	18.78	117.83	122.20	-4.37	peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW40) Mode 5755 MHz

Vertical

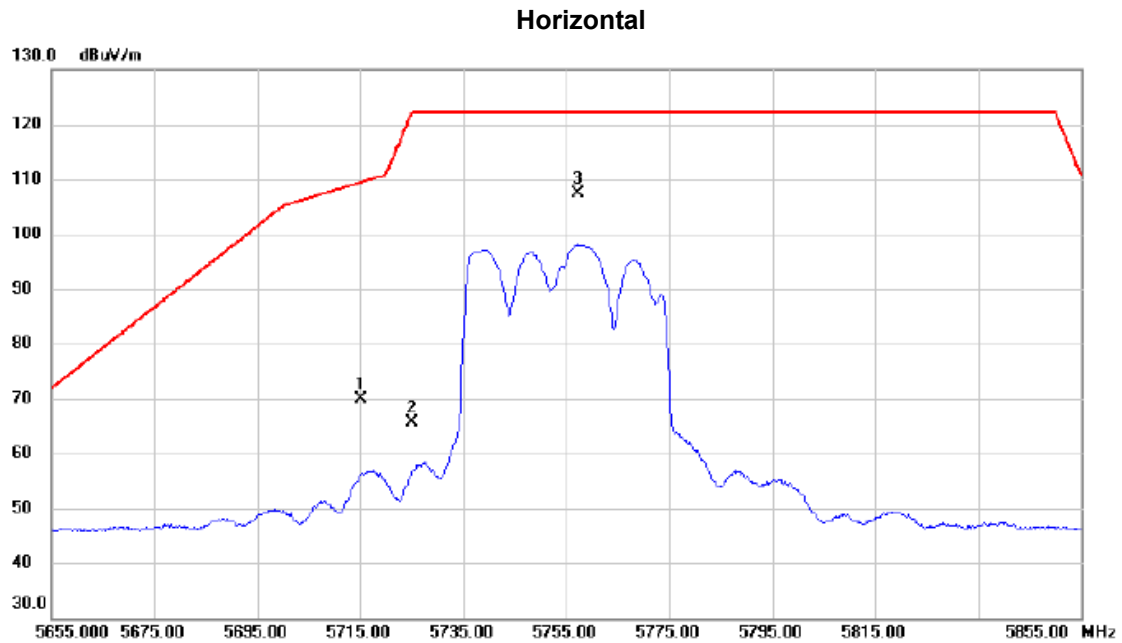


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11509.76	33.37	17.18	50.55	54.00	-3.45	AVG	
2		11509.90	39.72	17.18	56.90	74.00	-17.10	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW40) Mode 5755 MHz



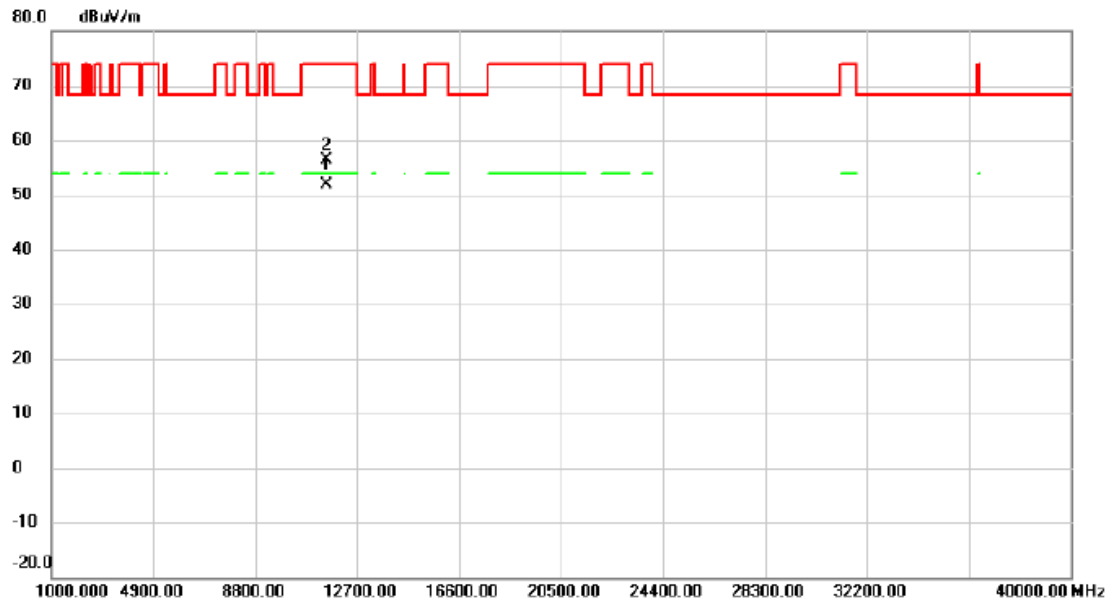
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	51.27	18.66	69.93	109.40	-39.47	peak	
2		5725.000	46.88	18.69	65.57	122.20	-56.63	peak	
3	*	5757.400	88.61	18.80	107.41	122.20	-14.79	peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW40) Mode 5755 MHz

Horizontal

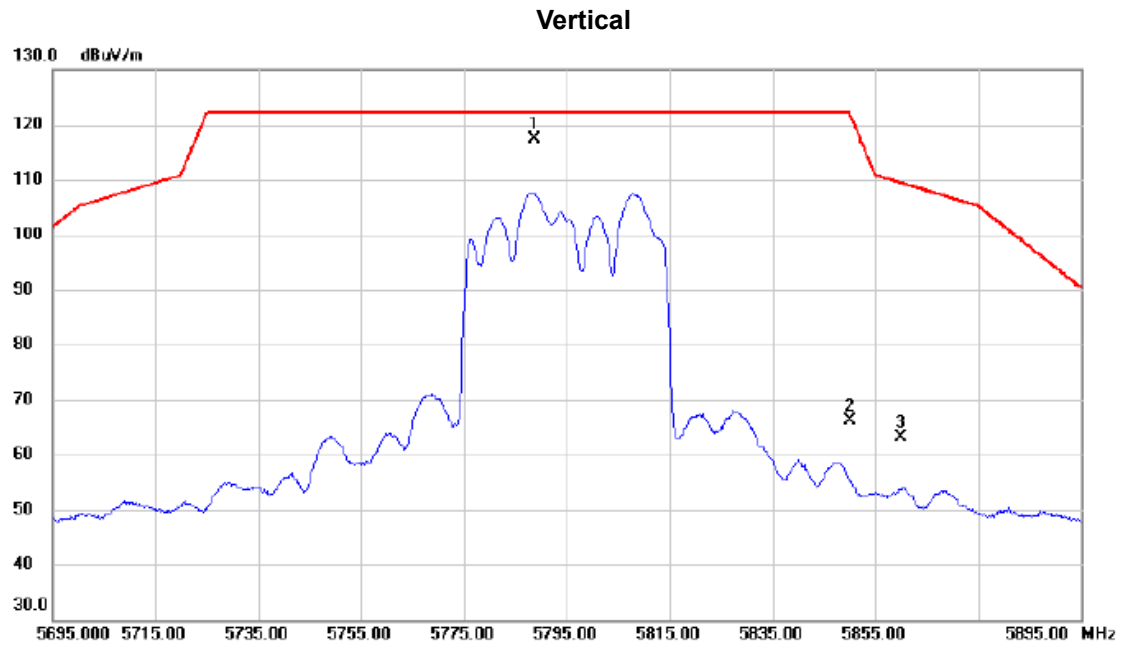


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11509.77	34.70	17.18	51.88	54.00	-2.12	AVG	
2		11509.81	39.16	17.18	56.34	74.00	-17.66	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW40) Mode 5795 MHz



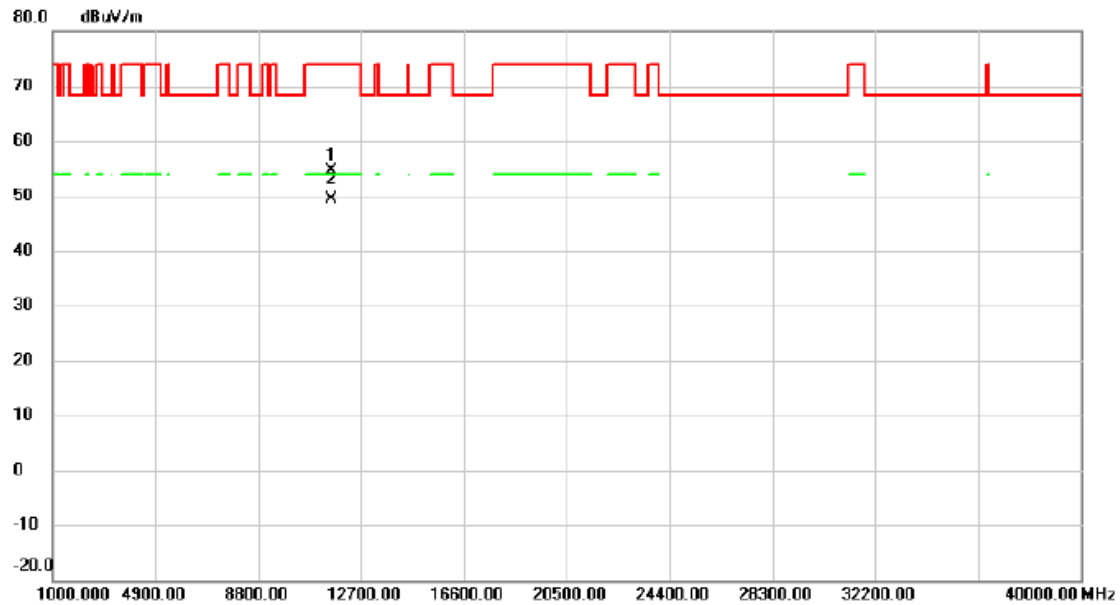
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5788.700	98.45	18.89	117.34	122.20	-4.86	peak	No Limit
2		5850.000	47.09	19.09	66.18	122.20	-56.02	peak	
3		5860.000	44.01	19.12	63.13	109.40	-46.27	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW40) Mode 5795 MHz

Vertical

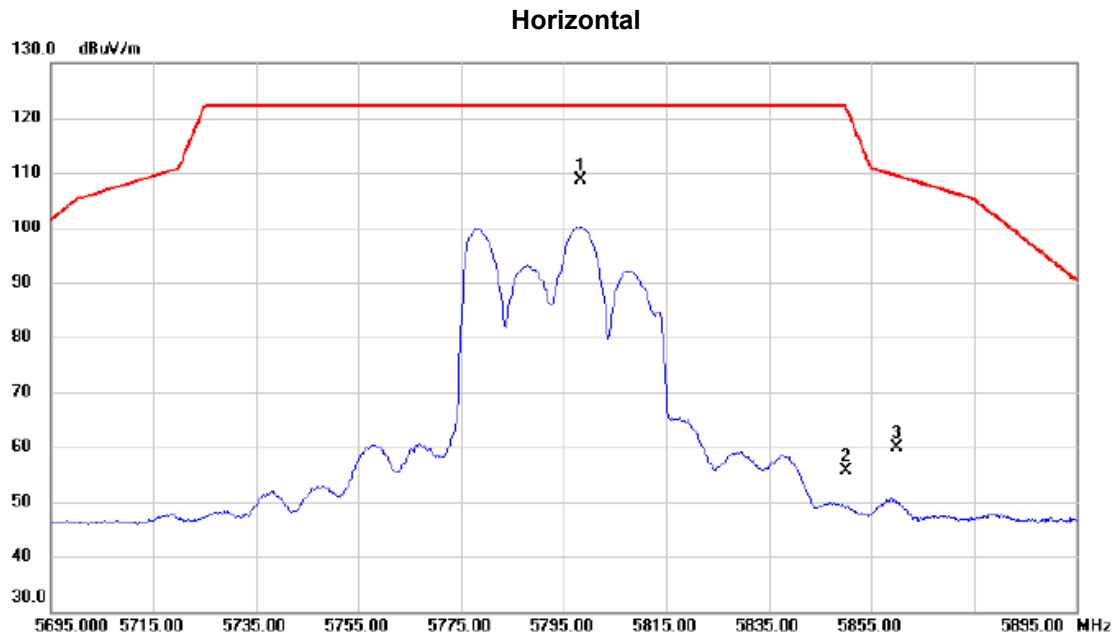


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11589.72	37.34	17.21	54.55	74.00	-19.45	peak	
2	*	11589.78	32.05	17.21	49.26	54.00	-4.74	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW40) Mode 5795 MHz



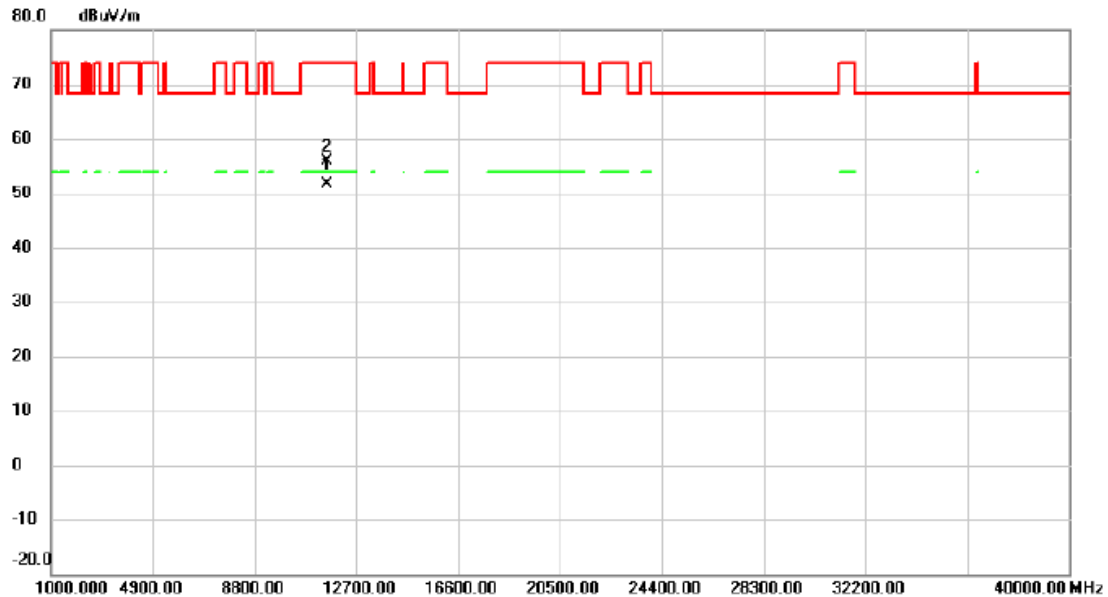
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5798.300	89.70	18.93	108.63	122.20	-13.57	peak	No Limit
2		5850.000	36.43	19.09	55.52	122.20	-66.68	peak	
3		5860.000	40.69	19.12	59.81	109.40	-49.59	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW40) Mode 5795 MHz

Horizontal

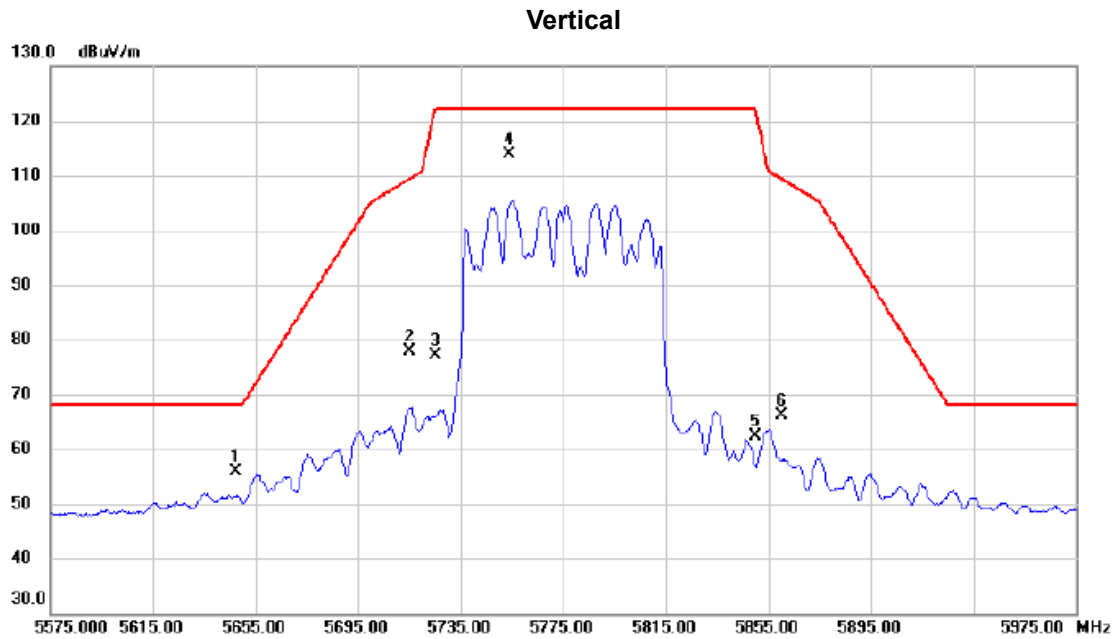


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11589.77	34.36	17.21	51.57	54.00	-2.43	AVG	
2		11590.01	38.77	17.21	55.98	74.00	-18.02	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW80) Mode 5775 MHz



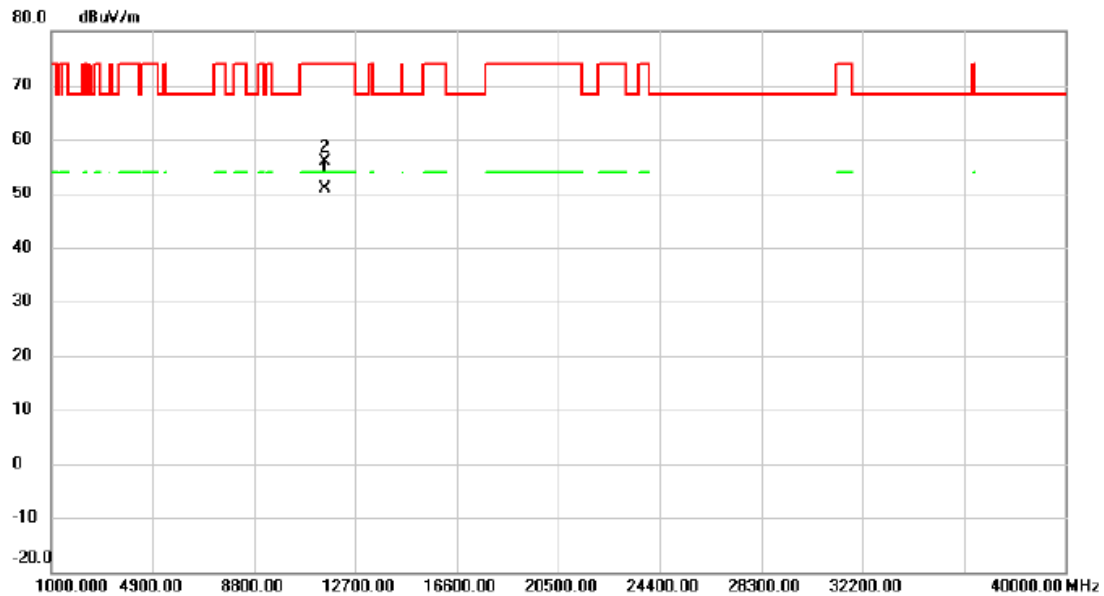
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5647.000	37.40	18.43	55.83	68.20	-12.37	peak	
2		5715.000	59.33	18.66	77.99	109.40	-31.41	peak	
3		5725.000	58.34	18.69	77.03	122.20	-45.17	peak	
4	*	5754.200	95.13	18.78	113.91	122.20	-8.29	peak	No Limit
5		5850.000	43.28	19.09	62.37	122.20	-59.83	peak	
6		5860.000	47.02	19.12	66.14	109.40	-43.26	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW80) Mode 5775 MHz

Vertical

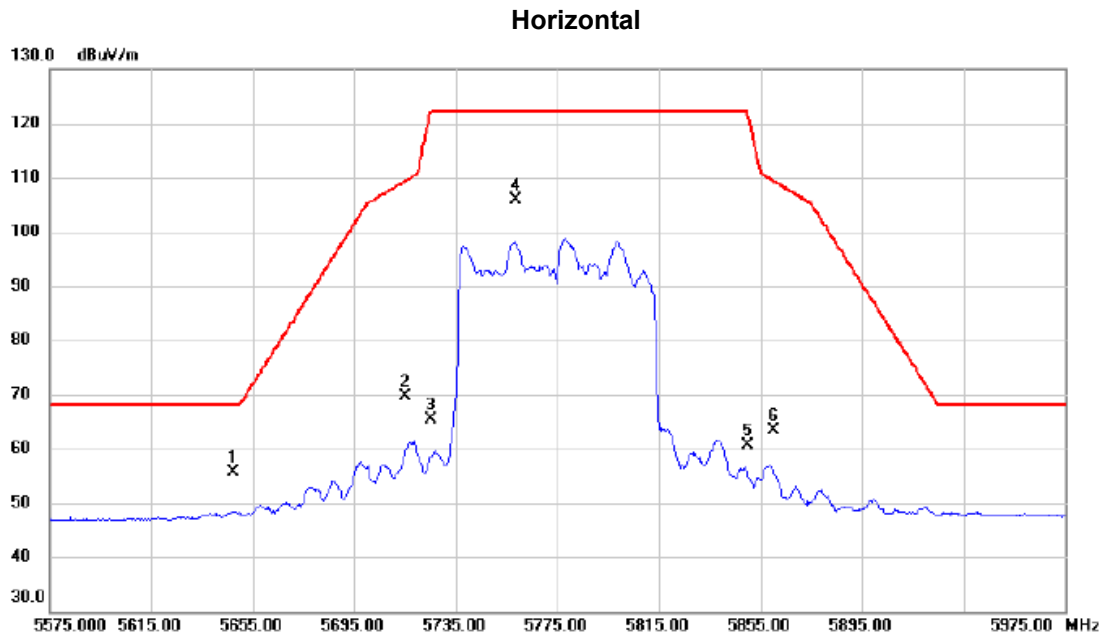


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11549.72	33.57	17.19	50.76	54.00	-3.24	AVG	
2		11549.80	38.75	17.19	55.94	74.00	-18.06	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	TX AX (HEW80) Mode 5775 MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5647.000	37.20	18.43	55.63	68.20	-12.57	peak	
2		5715.000	51.04	18.66	69.70	109.40	-39.70	peak	
3		5725.000	46.64	18.69	65.33	122.20	-56.87	peak	
4		5758.800	87.20	18.80	106.00	122.20	-16.20	peak	No Limit
5		5850.000	41.65	19.09	60.74	122.20	-61.46	peak	
6		5860.000	44.34	19.12	63.46	109.40	-45.94	peak	

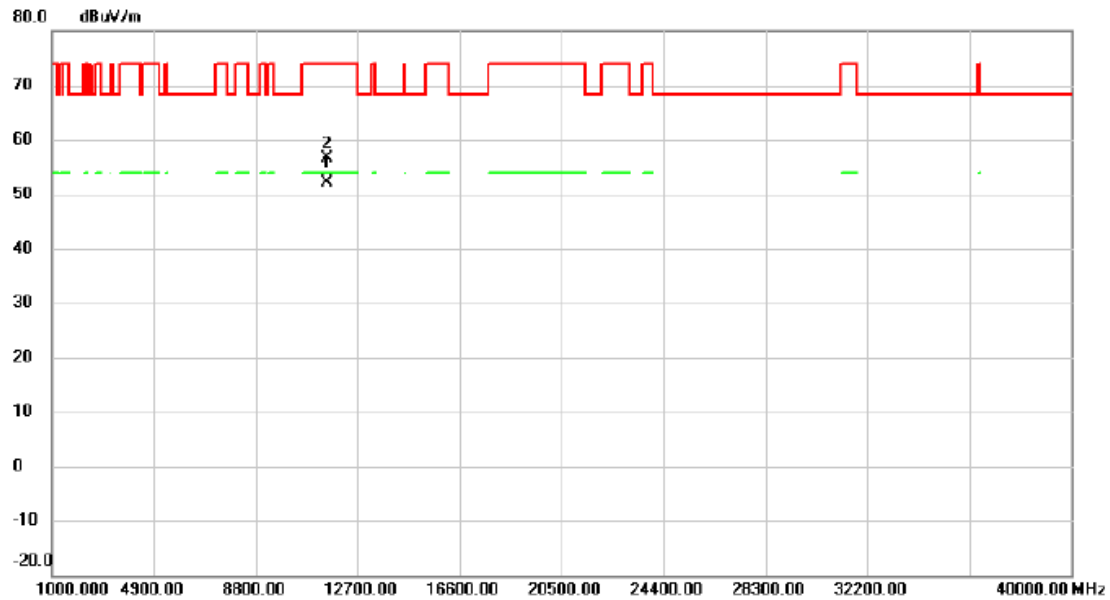
REMARKS:

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

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

Orthogonal Axis	X
Test Mode	TX AX (HEW80) Mode 5775 MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11549.80	34.83	17.19	52.02	54.00	-1.98	AVG	
2		11549.90	39.50	17.19	56.69	74.00	-17.31	peak	

REMARKS:

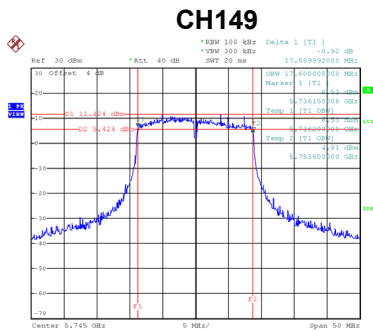
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

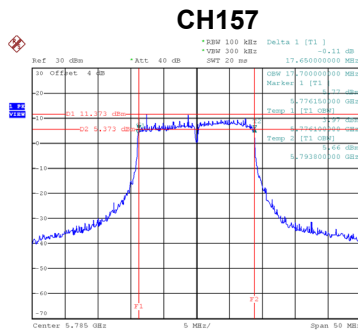
Date: 16-APR-2020 19:38:11

Test Mode	TX AC (VHT20) Mode
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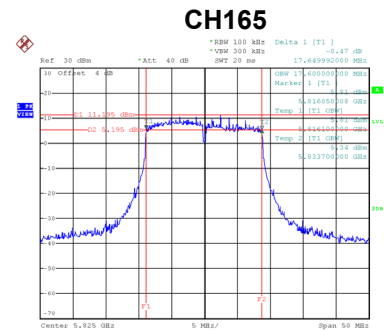
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
149	5745	17.59	500	Complies
157	5785	17.65	500	Complies
165	5825	17.65	500	Complies



Date: 16.APR.2020 19:17:55

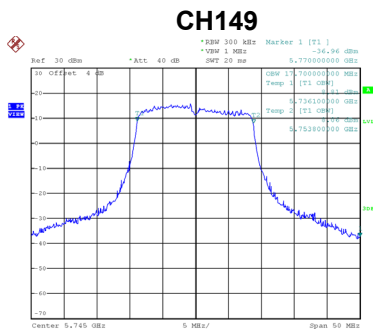


Date: 16.APR.2020 19:18:39

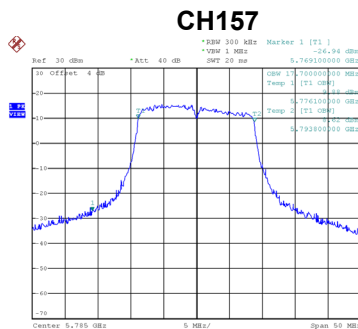


Date: 16.APR.2020 19:19:27

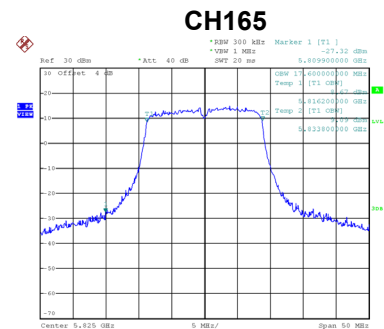
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
149	5745	17.70	Complies
157	5785	17.70	Complies
165	5825	17.60	Complies



Date: 16.APR.2020 19:38:34



Date: 16.APR.2020 19:39:05

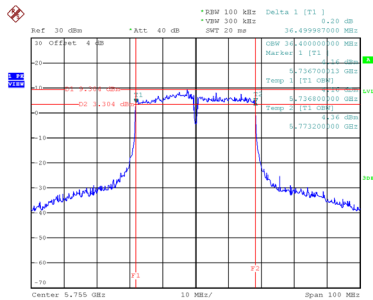


Date: 16.APR.2020 19:39:30

Test Mode	TX AC (VHT40) Mode
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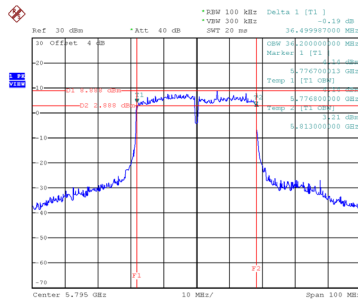
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
151	5755	36.50	500	Complies
159	5795	36.50	500	Complies

CH151



Date: 16.APR.2020 19:20:40

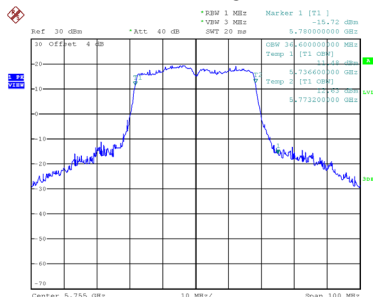
CH159



Date: 16.APR.2020 19:21:41

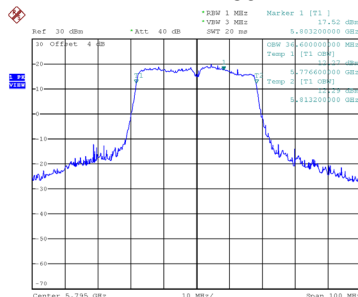
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
151	5755	36.60	Complies
159	5795	36.60	Complies

CH151



Date: 16.APR.2020 19:39:59

CH159

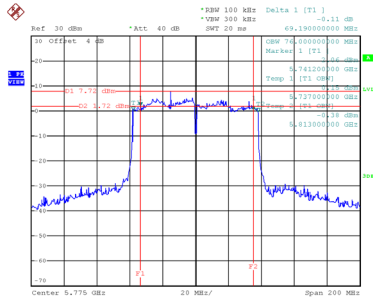


Date: 16.APR.2020 19:40:28

Test Mode	TX AC (VHT80) Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
155	5775	69.19	500	Complies

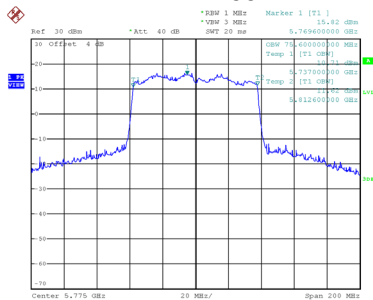
CH155



Date: 16.APR.2020 19:22:45

Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
155	5775	75.60	Complies

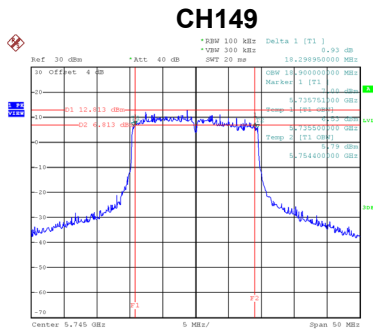
CH155



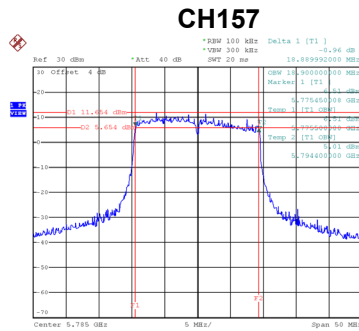
Date: 16.APR.2020 19:41:14

Test Mode	TX AX (HEW20) Mode
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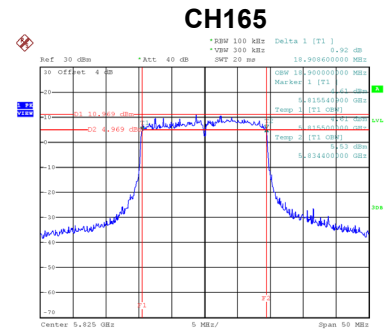
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
149	5745	18.30	500	Complies
157	5785	18.89	500	Complies
165	5825	18.91	500	Complies



Date: 16.APR.2020 19:23:39

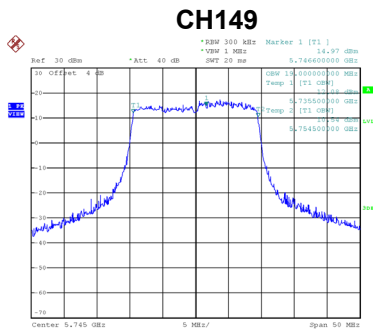


Date: 16.APR.2020 19:24:37

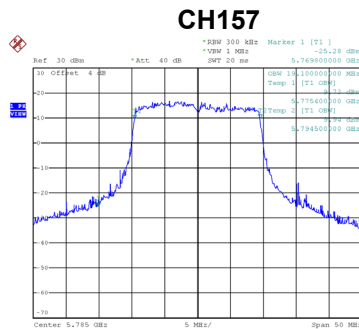


Date: 16.APR.2020 19:26:13

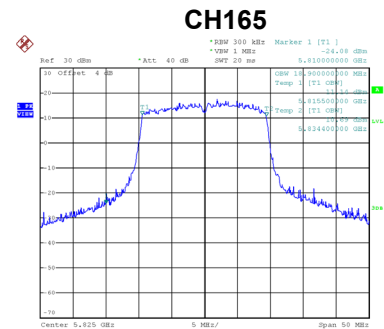
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
149	5745	19.00	Complies
157	5785	19.10	Complies
165	5825	18.90	Complies



Date: 16.APR.2020 19:42:07



Date: 16.APR.2020 19:42:36

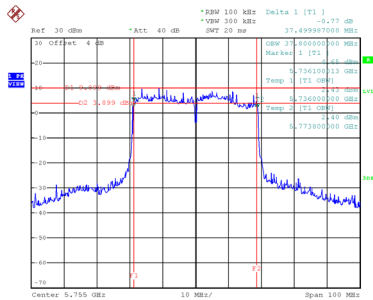


Date: 16.APR.2020 19:43:13

Test Mode	TX AX (HEW40) Mode
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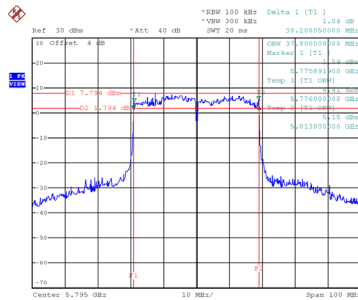
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
151	5755	37.50	500	Complies
159	5795	38.21	500	Complies

CH151



Date: 16.APR.2020 19:29:16

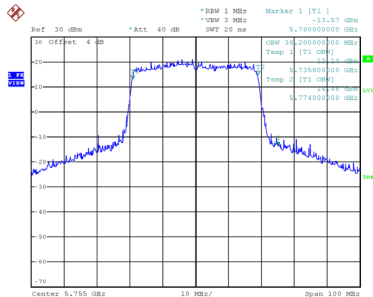
CH159



Date: 16.APR.2020 19:32:32

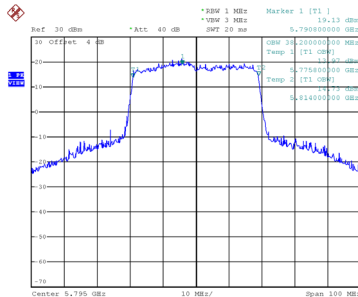
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
151	5755	38.20	Complies
159	5795	38.20	Complies

CH151



Date: 16.APR.2020 19:43:41

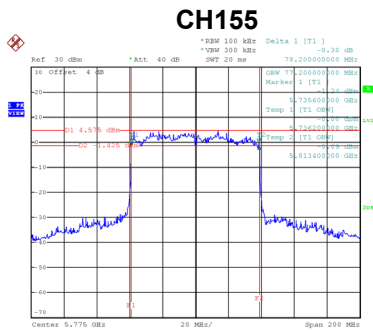
CH159



Date: 16.APR.2020 19:44:04

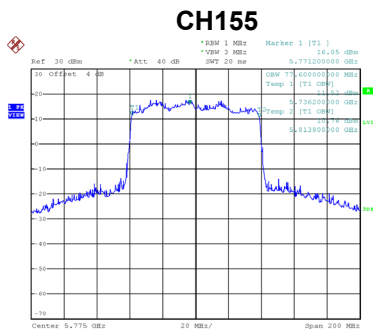
Test Mode	TX AX (HEW80) Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
155	5775	78.20	500	Complies



Date: 16.APR.2020 19:34:50

Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
155	5775	77.60	Complies



Date: 16.APR.2020 19:44:22

APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	TX A Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	21.72	0.23	21.95	29.11	0.81	Complies
157	5785	21.76	0.23	21.99	29.11	0.81	Complies
165	5825	22.01	0.23	22.24	29.11	0.81	Complies

Test Mode	TX A Mode_Ant. 2
-----------	------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.53	0.23	22.76	29.11	0.81	Complies
157	5785	22.59	0.23	22.82	29.11	0.81	Complies
165	5825	22.11	0.23	22.34	29.11	0.81	Complies

Test Mode	TX A Mode_Ant. 3
-----------	------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.11	0.23	22.34	29.11	0.81	Complies
157	5785	21.46	0.23	21.69	29.11	0.81	Complies
165	5825	21.53	0.23	21.76	29.11	0.81	Complies

Test Mode	TX A Mode_Ant. 4
-----------	------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.09	0.23	22.32	29.11	0.81	Complies
157	5785	21.72	0.23	21.95	29.11	0.81	Complies
165	5825	21.74	0.23	21.97	29.11	0.81	Complies

Test Mode	TX A Mode_Total
-----------	-----------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	28.38	29.11	0.81	Complies
157	5785	28.16	29.11	0.81	Complies
165	5825	28.11	29.11	0.81	Complies

Test Mode	TX AC (VHT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	21.69	0.20	21.89	29.11	0.81	Complies
157	5785	21.55	0.20	21.75	29.11	0.81	Complies
165	5825	21.85	0.20	22.05	29.11	0.81	Complies

Test Mode	TX AC (VHT20) Mode_Ant. 2
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.62	0.20	22.82	29.11	0.81	Complies
157	5785	22.21	0.20	22.41	29.11	0.81	Complies
165	5825	21.97	0.20	22.17	29.11	0.81	Complies

Test Mode	TX AC (VHT20) Mode_Ant. 3
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	21.76	0.20	21.96	29.11	0.81	Complies
157	5785	21.59	0.20	21.79	29.11	0.81	Complies
165	5825	21.73	0.20	21.93	29.11	0.81	Complies

Test Mode	TX AC (VHT20) Mode_Ant. 4
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.48	0.20	22.68	29.11	0.81	Complies
157	5785	21.63	0.20	21.83	29.11	0.81	Complies
165	5825	22.15	0.20	22.35	29.11	0.81	Complies

Test Mode	TX AC (VHT20) Mode_Total
-----------	--------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	28.38	29.11	0.81	Complies
157	5785	27.97	29.11	0.81	Complies
165	5825	28.15	29.11	0.81	Complies

Test Mode	TX AC (VHT40) Mode_Ant. 1
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	21.62	0.18	21.80	29.11	0.81	Complies
159	5795	21.81	0.18	21.99	29.11	0.81	Complies

Test Mode	TX AC (VHT40) Mode_Ant. 2
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	22.64	0.18	22.82	29.11	0.81	Complies
159	5795	22.53	0.18	22.71	29.11	0.81	Complies

Test Mode	TX AC (VHT40) Mode_Ant. 3
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	22.19	0.18	22.37	29.11	0.81	Complies
159	5795	21.52	0.18	21.70	29.11	0.81	Complies

Test Mode	TX AC (VHT40) Mode_Ant. 4
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	22.11	0.18	22.29	29.11	0.81	Complies
159	5795	22.22	0.18	22.40	29.11	0.81	Complies

Test Mode	TX AC (VHT40) Mode_Total
-----------	--------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	28.35	29.11	0.81	Complies
159	5795	28.23	29.11	0.81	Complies

Test Mode	TX AC (VHT80) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	21.89	0.19	22.08	29.11	0.81	Complies

Test Mode	TX AC (VHT80) Mode_Ant. 2
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	22.21	0.19	22.40	29.11	0.81	Complies

Test Mode	TX AC (VHT80) Mode_Ant. 3
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	21.72	0.19	21.91	29.11	0.81	Complies

Test Mode	TX AC (VHT80) Mode_Ant. 4
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	21.95	0.19	22.14	29.11	0.81	Complies

Test Mode	TX AC (VHT80) Mode_Total
-----------	--------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	28.15	29.11	0.81	Complies

Test Mode	TX AX (HEW20) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	21.64	0.16	21.80	29.11	0.81	Complies
157	5785	21.78	0.16	21.94	29.11	0.81	Complies
165	5825	22.02	0.16	22.18	29.11	0.81	Complies

Test Mode	TX AX (HEW20) Mode_Ant. 2
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.41	0.16	22.57	29.11	0.81	Complies
157	5785	22.23	0.16	22.39	29.11	0.81	Complies
165	5825	21.89	0.16	22.05	29.11	0.81	Complies

Test Mode	TX AX (HEW20) Mode_Ant. 3
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	21.69	0.16	21.85	29.11	0.81	Complies
157	5785	21.65	0.16	21.81	29.11	0.81	Complies
165	5825	21.61	0.16	21.77	29.11	0.81	Complies

Test Mode	TX AX (HEW20) Mode_Ant. 4
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.32	0.16	22.48	29.11	0.81	Complies
157	5785	21.89	0.16	22.05	29.11	0.81	Complies
165	5825	21.67	0.16	21.83	29.11	0.81	Complies

Test Mode	TX AX (HEW20) Mode_Total
-----------	--------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	28.21	29.11	0.81	Complies
157	5785	28.07	29.11	0.81	Complies
165	5825	27.98	29.11	0.81	Complies

Test Mode	TX AX (HEW40) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	21.66	0.16	21.82	29.11	0.81	Complies
159	5795	22.03	0.16	22.19	29.11	0.81	Complies

Test Mode	TX AX (HEW40) Mode_Ant. 2
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	22.37	0.16	22.53	29.11	0.81	Complies
159	5795	22.53	0.16	22.69	29.11	0.81	Complies

Test Mode	TX AX (HEW40) Mode_Ant. 3
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	22.08	0.16	22.24	29.11	0.81	Complies
159	5795	21.44	0.16	21.60	29.11	0.81	Complies

Test Mode	TX AX (HEW40) Mode_Ant. 4
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	22.13	0.16	22.29	29.11	0.81	Complies
159	5795	22.12	0.16	22.28	29.11	0.81	Complies

Test Mode	TX AX (HEW40) Mode_Total
-----------	--------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	28.25	29.11	0.81	Complies
159	5795	28.23	29.11	0.81	Complies

Test Mode	TX AX (HEW80) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	21.83	0.20	22.03	29.11	0.81	Complies

Test Mode	TX AX (HEW80) Mode_Ant. 2
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	22.17	0.20	22.37	29.11	0.81	Complies

Test Mode	TX AX (HEW80) Mode_Ant. 3
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	21.76	0.20	21.96	29.11	0.81	Complies

Test Mode	TX AX (HEW80) Mode_Ant. 4
-----------	---------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	21.88	0.20	22.08	29.11	0.81	Complies

Test Mode	TX AX (HEW80) Mode_Total
-----------	--------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	28.14	29.11	0.81	Complies

APPENDIX G - POWER SPECTRAL DENSITY