



FCC Radio Test Report

FCC ID: 2AFZZL05G

This report concerns: Original Grant

Project No. : 2106C233

Equipment: Xiaomi Smart Speaker (IR Control)

Brand Name : Xiaomi
Test Model : L05G
Series Model : N/A

Applicant: Xiaomi Communications Co.,Ltd

Address : #019, 9th Floor, Building 6, 33 Xi'ergi Middle Road, Haidian District,

Beijing, China

Manufacturer : Xiaomi Communications Co.,Ltd

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Avenue, Huizhou City, Guangdong Province, China. 516000

Date of Receipt : Jun. 28, 2021

Date of Test : Jul. 06, 2021 ~ Nov. 03, 2021

Issued Date : Nov. 11, 2021

Report Version : R00

Test Sample: Engineering Sample No.: DG2021070646 for conducted,

DG2021071945 for radiated.

Standard(s) : FCC CFR Title 47, Part 15, Subpart C

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

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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Declaration

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BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

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	Original Issue.	Nov. 11, 2021



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, People's Republic of 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)
		9kHz ~ 30MHz	-	3.02
		30MHz ~ 200MHz	V	4.34
		30MHz ~ 200MHz	Н	4.00
		200MHz ~ 1,000MHz	V	4.50
DG-CB03	CISPR	200MHz ~ 1,000MHz	Η	4.26
		1GHz ~ 6GHz	•	4.04
		6GHz ~ 18GHz	ı	5.10
		18GHz ~ 26.5GHz	•	3.62
		26.5GHz ~ 40GHz	-	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	53%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-9kHz to 30 MHz	25°C	60%	AC 120V/60Hz	Hayden Chen
Radiated Emissions-30MHz to 1000MHz	26°C	52%	AC 120V/60Hz	Hayden Chen
Radiated Emissions-Above 1000MHz	26°C	52%	AC 120V/60Hz	Hayden Chen
Bandwidth	23°C	52%	DC 12V	Jesse Wang
Maximum Output Power	23°C	52%	DC 12V	Jesse Wang
Conducted Spurious Emissions	23°C	52%	DC 12V	Jesse Wang
Power Spectral Density	23°C	52%	DC 12V	Jesse Wang



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Xiaomi Smart Speaker (IR Control)	
Brand Name	Xiaomi	
Test Model	L05G	
Series Model	N/A	
Model Difference(s)	N/A	
Power Source	DC voltage supplied from AC adapter. Model: CYXT18-120100U	
Power Rating	I/P: 100-240V~ 50/60Hz 0.3A O/P: 12V === 1A	
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 150 Mbps	
Maximum Output Power	IEEE 802.11n(HT20): 25.95 dBm (0.3936 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.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
ſ	1	ETHETA	RD032102NB87-1	Internal	Cable+Plug	2.41

Note: The antenna gain is provided by the manufacturer.



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:

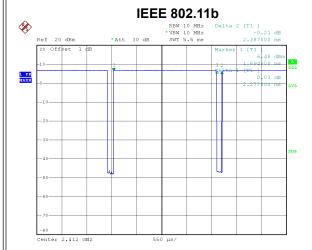
- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX N(HT20) Mode Channel 06 is found to be the worst case and recorded.
- (3) For radiated 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.

2.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	N/A		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	DC01	FF01	DF01
IEEE 802.11g	B401	FF01	9901
IEEE 802.11n(HT20)	DA01	FF01	9101
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	7D01	8F01	7B01

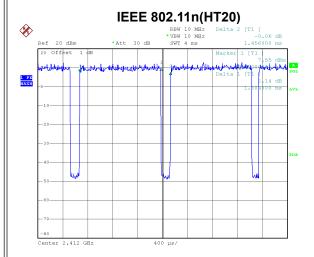


2.4 DUTY CYCLE



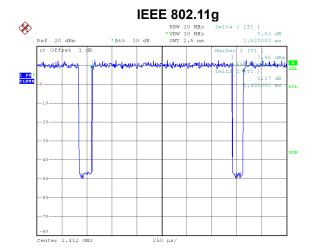
Date: 2.JUL.2021 14:10:03

Duty cycle = 2.277 ms / 2.387 ms = 95.39% Duty Factor = 10 log(1/Duty cycle) = 0.20



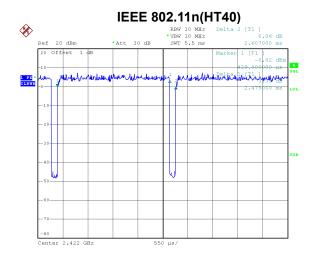
Date: 2.JUL.2021 14:11:11

Duty cycle = 1.304 ms / 1.456 ms = 89.56% Duty Factor = 10 log(1/Duty cycle) = 0.48



Date: 2.JUL.2021 14:10:32

Duty cycle = 1.405 ms / 1.520 ms = 92.43% Duty Factor = 10 log(1/Duty cycle) = 0.34



Date: 2.JUL.2021 14:12:33

Duty cycle = 2.475 ms / 2.607 ms = 94.94% Duty Factor = 10 log(1/Duty cycle) = 0.23





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 439 Hz.

For IEEE 802.11g:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 712 Hz.

For IEEE 802.11n(HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 767 Hz.

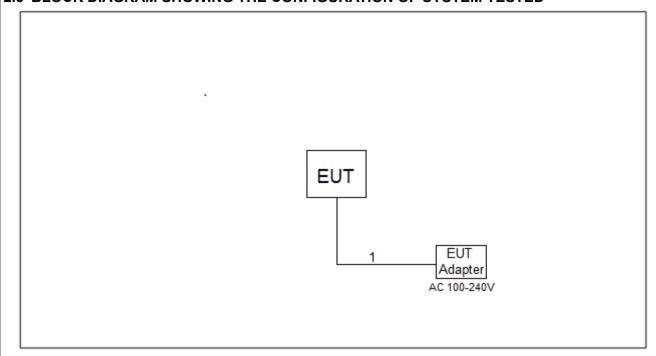
For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 404 Hz.

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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	DC Cable	NO	NO	1.2m



3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Fraguency of Emission (MHz)	Limit (dBμV)		
Frequency of Emission (MHz)	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:

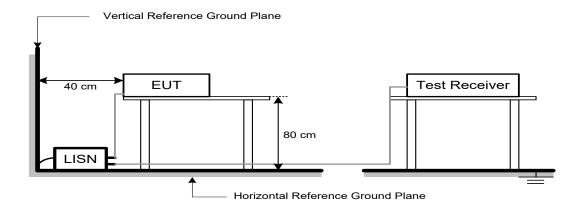
Receiver Parameters	Setting	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

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	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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)	
Frequency (Wiriz)	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	1 MHz / 3 MHz for PK value
(Emission in restricted band)	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

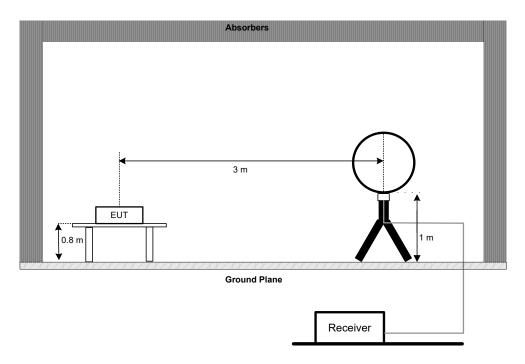


4.3 DEVIATION FROM TEST STANDARD

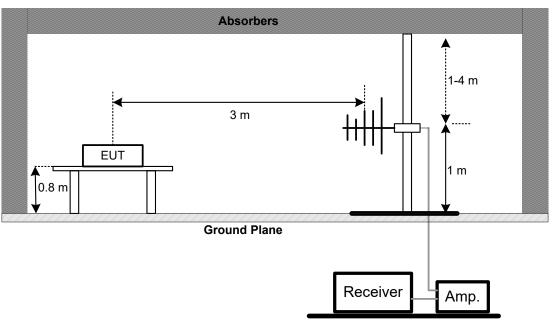
No deviation.

4.4 TEST SETUP

9 kHz to 30 MHz

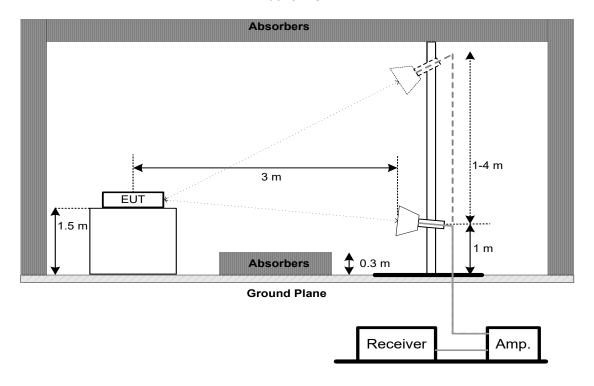


30 MHz to 1 GHz





Above 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 (specific distance / 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
FOC 45 247(a)(2)	6 dB Bandwidth	Minimum 500 kHz
FCC 15.247(a)(2)	99% Emission Bandwidth	-

5.2 TEST PROCEDURE

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

For 6 dB Bandwidth:

TOT O GE BUITAWIGHT.	
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	

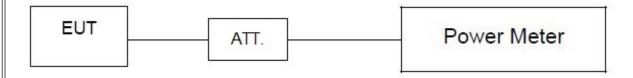
6.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.1.3 of ANSI C63.10-2013.

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

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

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

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

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

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

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, 2022	
2	LISN	EMCO	3816/2	52765	Feb. 27, 2022	
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Feb. 27, 2022	
4	50Ω Terminator	SHX	TF5-3	15041305	Feb. 27, 2022	
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
6	Cable	N/A	RG223	12m	Mar. 09, 2022	
7	643 Shield Room	ETS	6*4*3m	N/A	N/A	

	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. 28, 2022	
2	Cable	N/A	RG 213/U	N/A	May 27, 2022	
3	EMI Test Receiver	R&S	ESCI	100895	Feb. 27, 2022	
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
5	966 Chambe Room	RM	9*6*6m	N/A	Jul. 24, 2022	

Radiated Emissions - 30 MHz to 1 GHz								
Item	tem Kind of Equipment Manufactur		Type No.	Serial No.	Calibrated until			
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 15, 2022			
2	Amplifier	HP	8447D	2944A08742	Feb. 28, 2022			
3	Receiver Agilent		N9038A	MY52130039	Mar. 19, 2022			
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 20, 2022			
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			
8	966 Chambe Room	RM	9*6*6m	N/A	Jul. 24, 2022			

	Radiated Emissions - Above 1 GHz								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Double Ridged Guide Antenna	ETS	3115	75789	May 10, 2022				
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022				
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022				
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 28, 2022				
5	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022				
6	Controller	CT	SC100	N/A	N/A				
7	Controller	MF	MF-7802	MF780208416	N/A				
8	Cable	N/A	EMC104-SM-SM-6 000	N/A	Oct. 15, 2022				
9	Measurement Farad		EZ-EMC Ver.NB-03A1-01	N/A	N/A				
10	Filter	STI	STI15-9912	N/A	Jul. 10, 2022				
11	966 Chambe Room RM		9*6*6m	N/A	Jul. 24, 2022				



Bandwidth & Conducted Spurious Emissions & Power Spectral Density									
Item	em Kind of Equipment Manufacturer Type No. Serial No. Calibrated until								
1	Spectrum Analyzer	R&S	FSP40	100185	Jul. 10, 2022				
2	2 Attenuator WOKEN 6SM3502 VAS1214NL Feb. 07, 202								
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. Calibration									
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jul. 10, 2022				
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jul. 10, 2022				
3	Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 07, 2022				
4	RF Cable	Tongkaichuan	N/A	N/A	N/A				

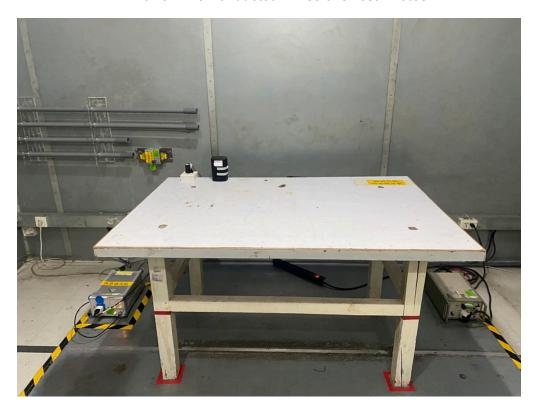
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.



10. EUT TEST PHOTO



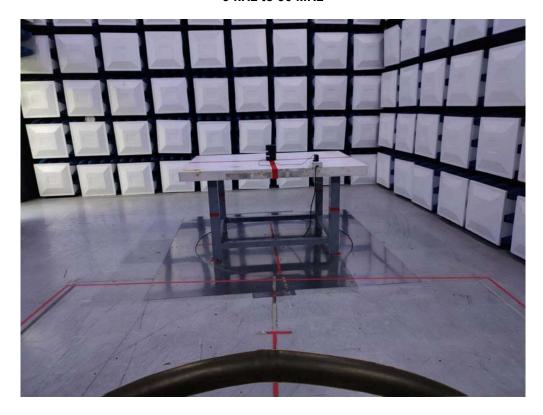


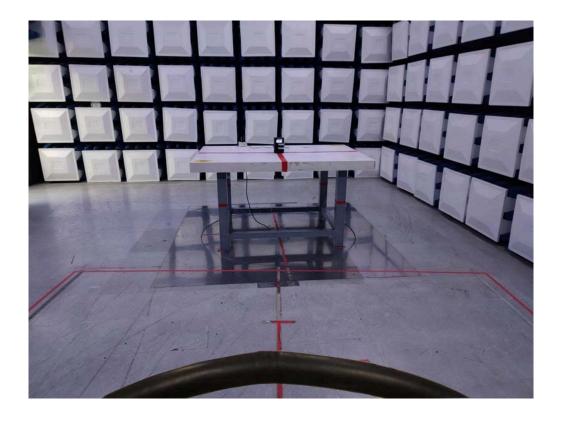




Radiated Emissions Test Photos

9 kHz to 30 MHz

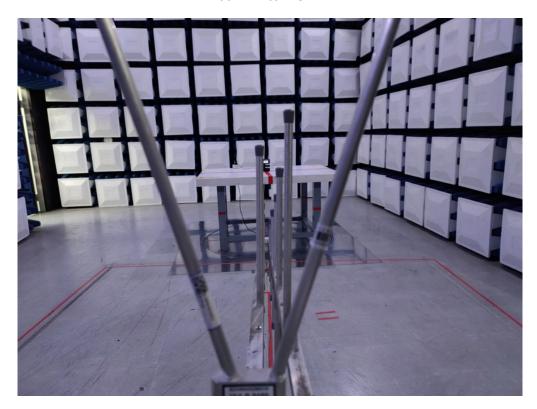


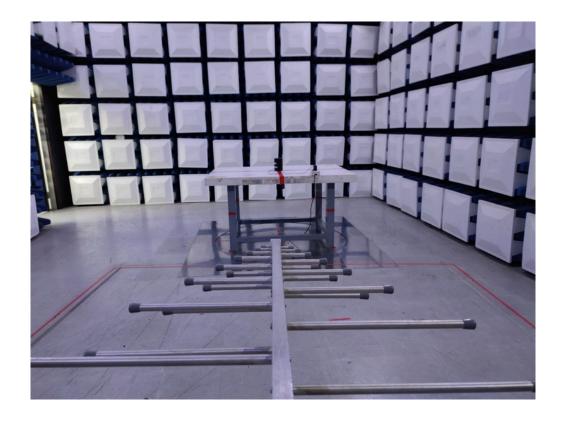




Radiated Emissions Test Photos

30 MHz to 1 GHz



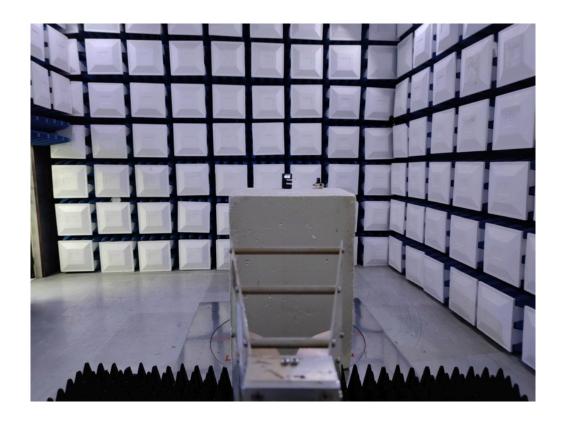




Radiated Emissions Test Photos

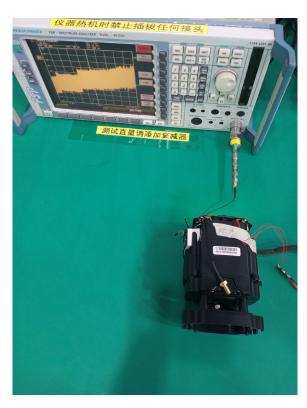
Above 1 GHz







Conducted Test Photos



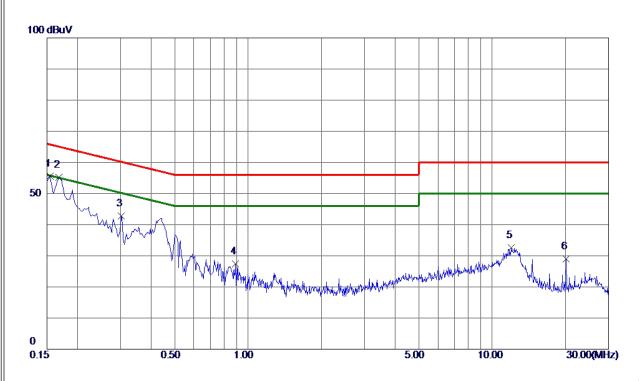




APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS







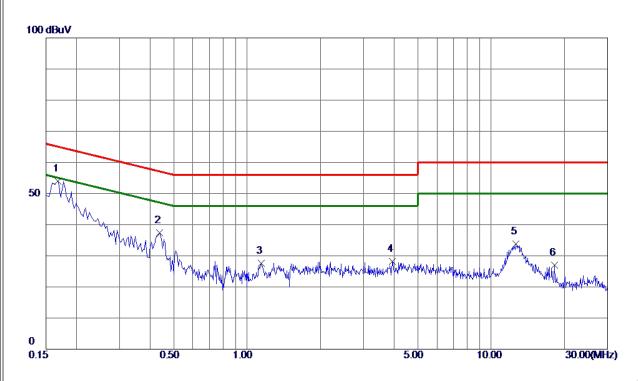
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 1545	45. 99	9. 70	55. 69	65. 75	-10.06	Peak	
2 *	0. 1680	45. 49	9. 80	55. 29	65.06	-9. 77	Peak	
3	0. 3030	32. 99	9. 88	42.87	60. 16	-17. 29	Peak	
4	0.8880	17. 39	9. 97	27. 36	56.00	-28. 64	Peak	
5	11. 9940	21. 88	10. 74	32. 62	60.00	-27. 38	Peak	
6	20. 0940	18. 09	10.87	28. 96	60.00	-31. 04	Peak	

REMARKS:

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







No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1680	44. 15	9. 88	54. 03	65. 06	-11. 03	Peak	
2	0. 4380	27. 39	10. 09	37. 48	57. 10	-19.62	Peak	
3	1. 1445	17. 37	10. 29	27. 66	56.00	-28. 34	Peak	
4	3. 9345	17. 67	10. 54	28. 21	56.00	-27. 79	Peak	
5	12. 6465	22. 79	11. 04	33. 83	60.00	-26. 17	Peak	
6	18. 1590	15. 83	11. 14	26. 97	60.00	-33. 03	Peak	

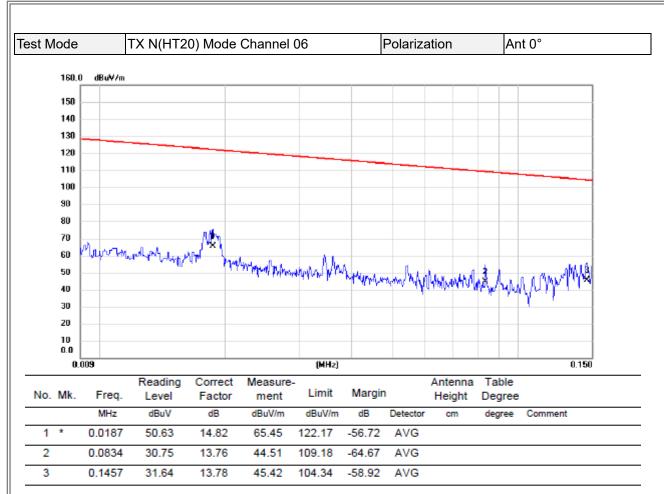
REMARKS:

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



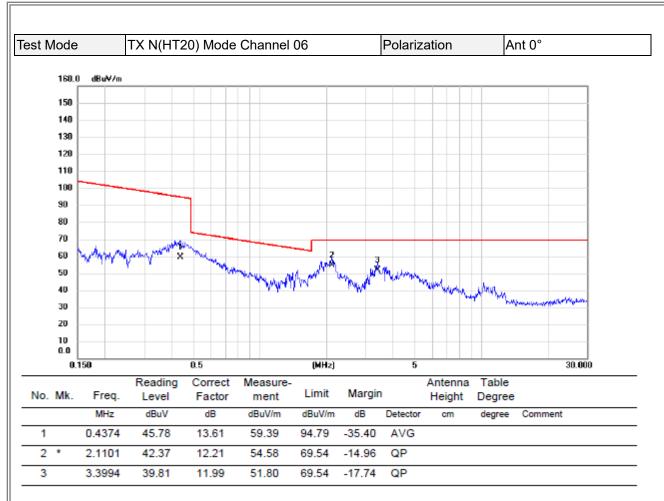
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ





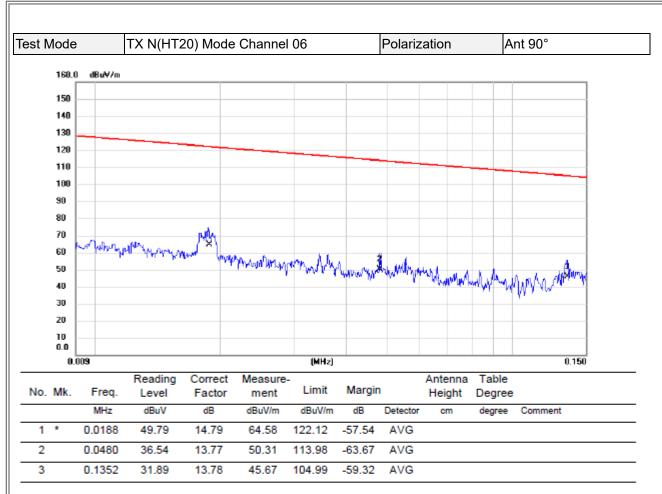
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





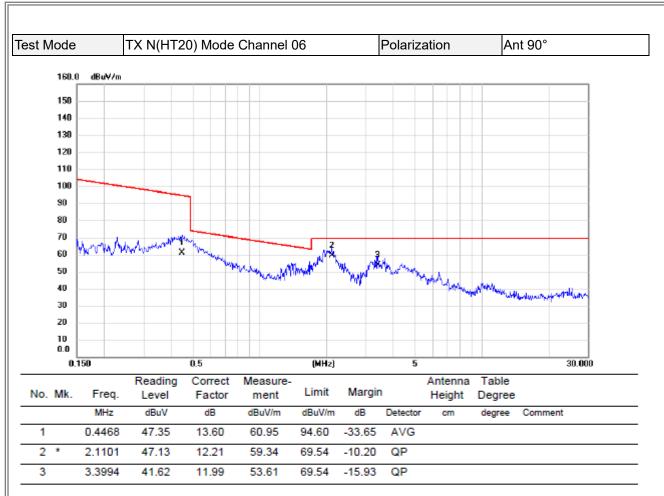
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





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





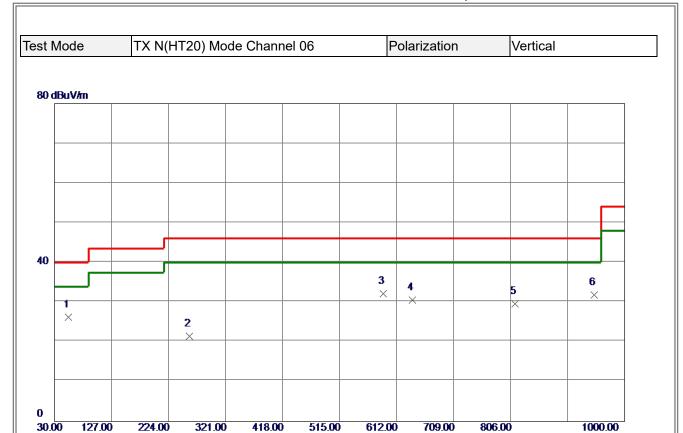
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

(MHz)

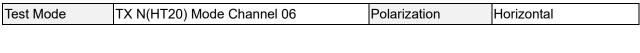


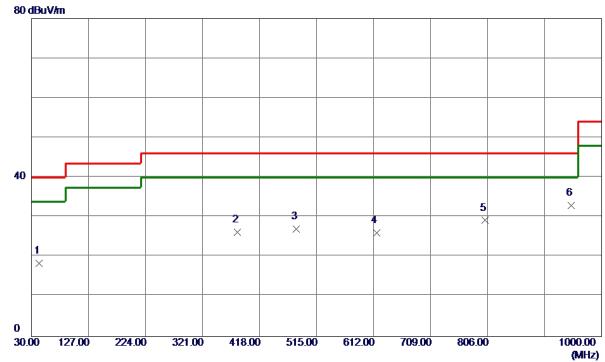


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	53. 7650	40. 24	-14. 06	26. 18	40.00	-13.82	Peak	
2	259. 4050	34. 08	-12. 58	21. 50	46.00	-24.50	Peak	
3	589. 6900	36. 99	-4. 83	32. 16	46.00	-13.84	Peak	
4	639. 1599	34. 43	-3. 91	30. 52	46.00	−15. 48	Peak	
5	813. 2750	30. 33	-0. 67	29. 66	46.00	-16. 34	Peak	
6	948. 1050	30. 10	1. 74	31. 84	46. 00	-14. 16	Peak	

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







No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	42.6100	32. 34	-13. 95	18. 39	40.00	-21. 61	Peak	
2	380. 6550	35. 45	-9. 24	26. 21	46.00	-19. 79	Peak	
3	480. 0800	33. 92	-6. 89	27. 03	46.00	-18. 97	Peak	
4	616. 8500	30. 34	-4. 28	26. 06	46.00	-19. 94	Peak	
5	802. 1200	29. 88	-0. 68	29. 20	46.00	-16. 80	Peak	
6 *	948. 1050	31. 19	1. 74	32. 93	46. 00	-13. 07	Peak	

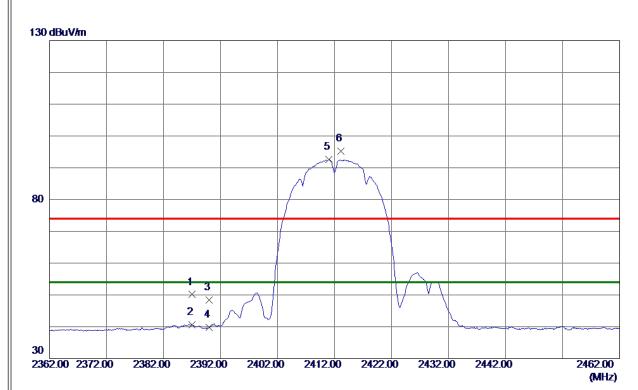
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ



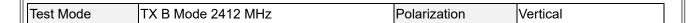


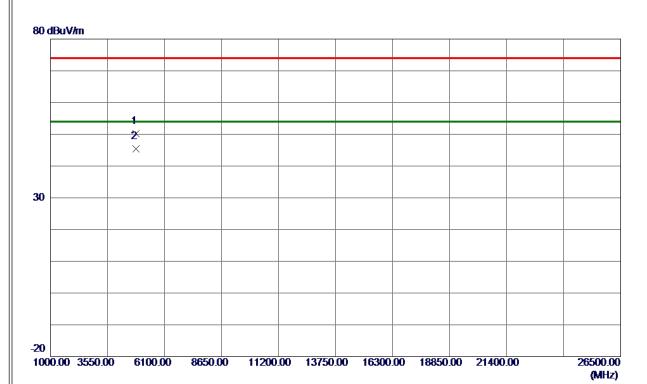


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2387. 0000	41.80	8. 30	50. 10	74.00	-23. 90	Peak	
2	2387. 0000	32. 32	8. 30	40.62	54.00	-13. 38	AVG	
3	2390. 0000	40. 17	8. 31	48. 48	74.00	-25. 52	Peak	
4	2390. 0000	31. 45	8. 31	39. 76	54.00	-14. 24	AVG	
5 *	2411. 0000	84. 23	8. 33	92. 56	54.00	38. 56	AVG	No Limit
6	2413. 1000	86. 89	8. 33	95. 22	74.00	21. 22	Peak	No Limit

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





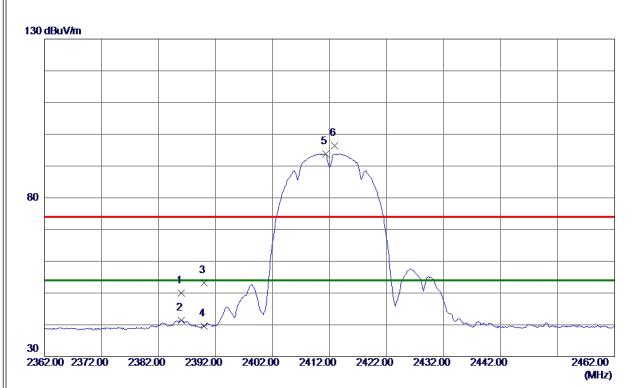


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823. 9980	44. 88	5. 23	50. 11	74.00	-23.89	Peak	
2 *	4824. 0179	40. 21	5. 23	45. 44	54.00	-8. 56	AVG	

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



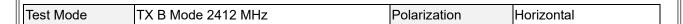


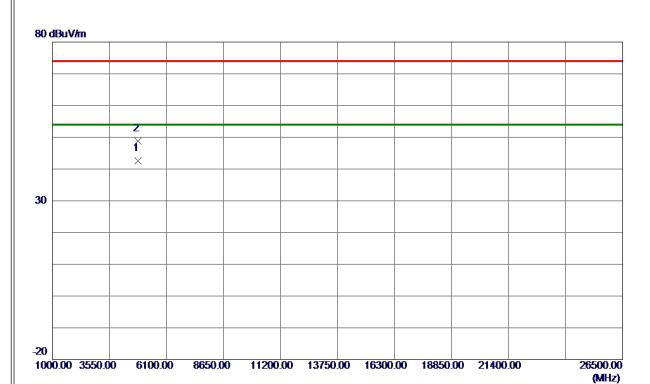


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2386. 0000	41. 79	8. 30	50. 09	74.00	-23. 91	Peak	
2	2386. 0000	33. 04	8. 30	41. 34	54.00	-12.66	AVG	
3	2390. 0000	44. 85	8. 31	53. 16	74.00	-20. 84	Peak	
4	2390. 0000	31. 32	8. 31	39. 63	54.00	-14. 37	AVG	
5 *	2411. 3000	85. 42	8. 33	93. 75	54.00	39. 75	AVG	No Limit
6	2412. 9000	88. 14	8. 33	96. 47	74.00	22. 47	Peak	No Limit

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





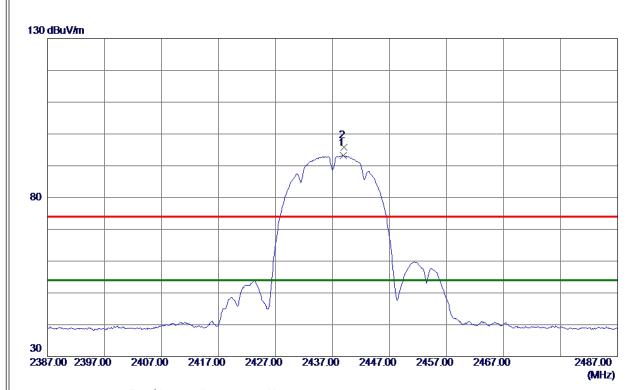


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4824. 0259	37. 32	5. 23	42. 55	54.00	-11. 45	AVG	
2	4824. 0780	43. 66	5. 23	48. 89	74. 00	-25. 11	Peak	

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



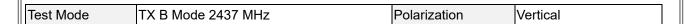




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2438. 9000	84. 76	8. 37	93. 13	54.00	39. 13	AVG	No Limit
2	2439. 0000	87. 33	8. 37	95. 70	74.00	21.70	Peak	No Limit

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





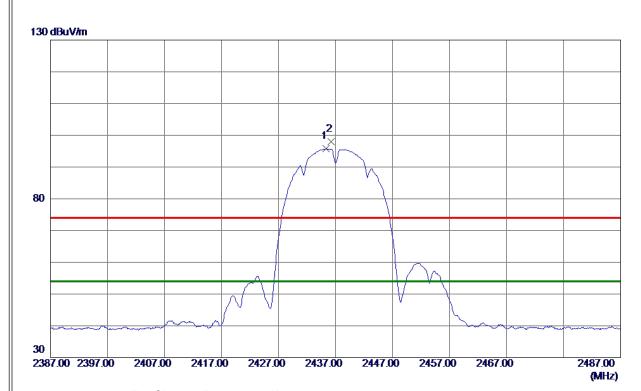


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873. 9820	43. 07	5. 48	48. 55	54.00	−5. 45	AVG	
2	4874. 0660	46. 10	5. 48	51. 58	74.00	-22. 42	Peak	

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



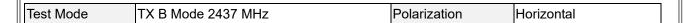


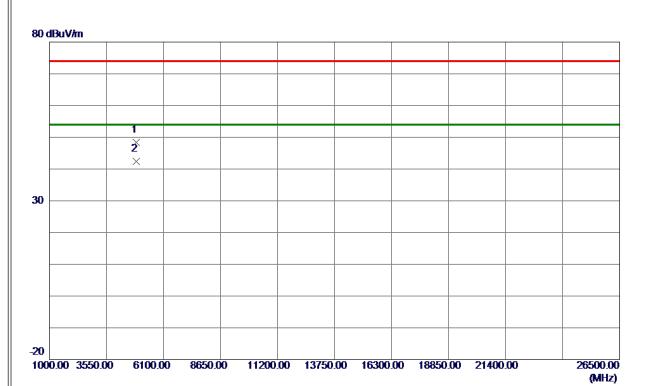


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2435. 3000	87. 37	8. 36	95. 73	54.00	41. 73	AVG	No Limit
2	2436. 2000	89. 54	8. 36	97. 90	74. 00	23. 90	Peak	No Limit

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





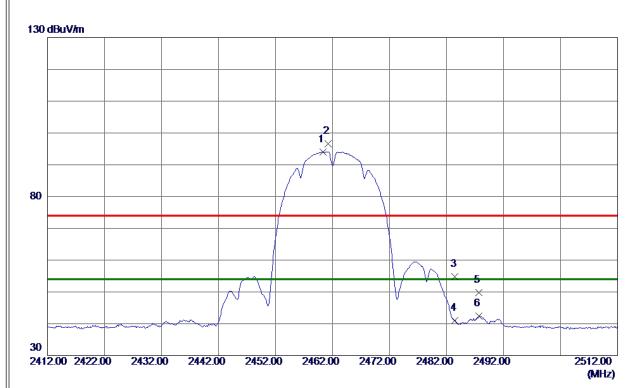


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873. 9700	42. 93	5. 4 8	48. 41	74.00	-25.59	Peak	
2 *	4874, 0059	36, 97	5. 48	42, 45	54. 00	-11, 55	AVG	

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







No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2460. 3000	85. 66	8. 39	94. 05	54.00	40.05	AVG	No Limit
2	2461. 2000	88. 14	8. 40	96. 54	74.00	22. 54	Peak	No Limit
3	2483. 5000	46. 37	8. 42	54. 79	74.00	-19. 21	Peak	
4	2483. 5000	32. 49	8. 42	40. 91	54.00	-13. 09	AVG	
5	2487. 7000	41. 31	8. 43	49. 74	74.00	-24. 26	Peak	
6	2487. 7000	33. 95	8. 43	42. 38	54.00	-11. 62	AVG	

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





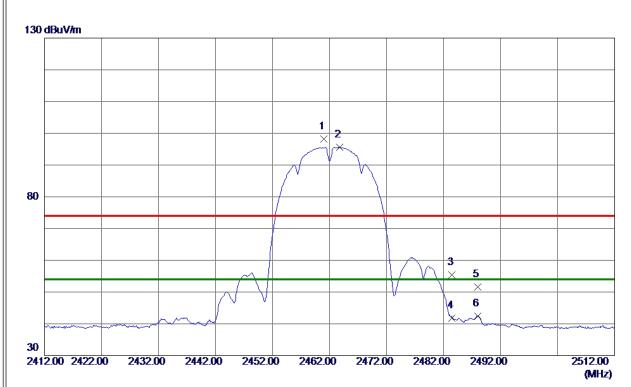


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924. 0419	41. 13	5. 73	46.86	54.00	-7. 14	AVG	
2	4924. 0720	45. 60	5. 74	51. 34	74. 00	-22. 66	Peak	

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



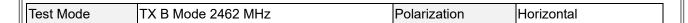


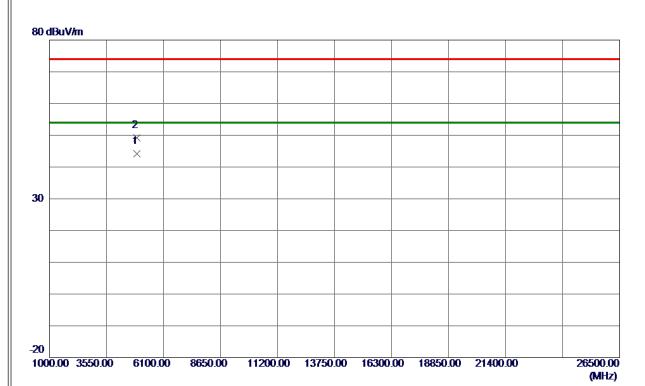


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461.0000	89. 87	8. 40	98. 27	74.00	24. 27	Peak	No Limit
2 *	2463. 8000	87. 25	8. 40	95. 65	54.00	41.65	AVG	No Limit
3	2483. 5000	46. 95	8. 42	55. 37	74.00	-18. 63	Peak	
4	2483. 5000	33. 42	8. 42	41.84	54.00	-12. 16	AVG	
5	2488. 0000	43. 16	8. 43	51. 59	74.00	-22. 41	Peak	
6	2488. 0000	34. 01	8. 43	42. 44	54. 00	-11. 56	AVG	

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





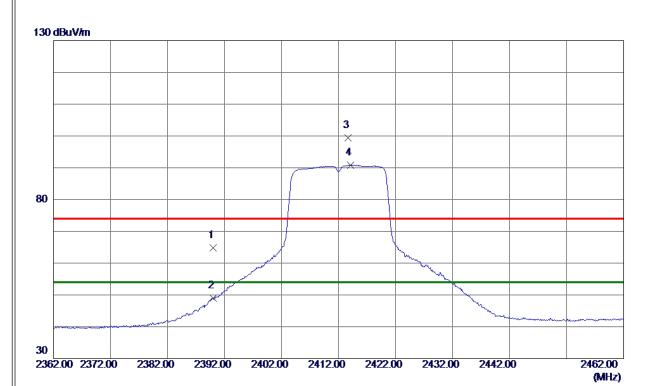


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924. 0099	38. 38	5. 73	44. 11	54.00	-9.89	AVG	
2	4924. 0480	43. 54	5. 73	49. 27	74.00	-24. 73	Peak	

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





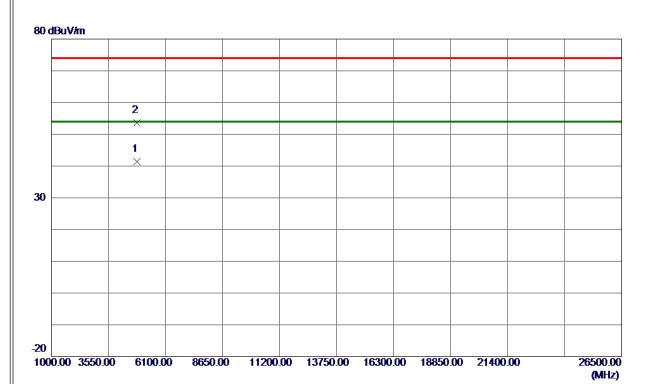


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	56. 46	8. 31	64. 77	74.00	-9. 23	Peak	
2	2390. 0000	40. 70	8. 31	49. 01	54.00	-4.99	AVG	
3	2413. 7000	90. 97	8. 34	99. 31	74.00	25. 31	Peak	No Limit
4 *	2414. 1000	82. 51	8. 34	90. 85	54.00	36. 85	AVG	No Limit

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





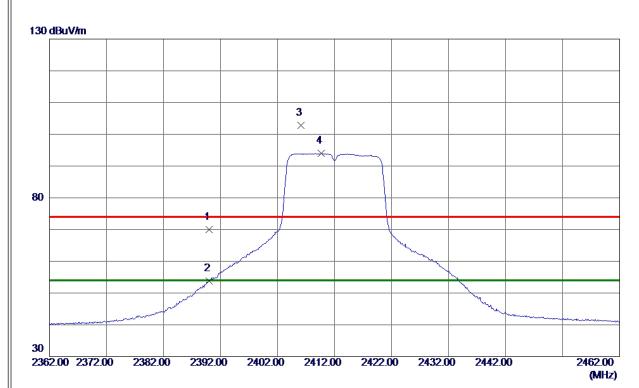


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4824. 0019	36. 20	5. 23	41. 43	54.00	-12. 57	AVG	
2	4824. 1840	48. 37	5. 23	53. 60	74.00	-20. 40	Peak	

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



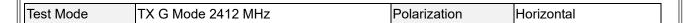


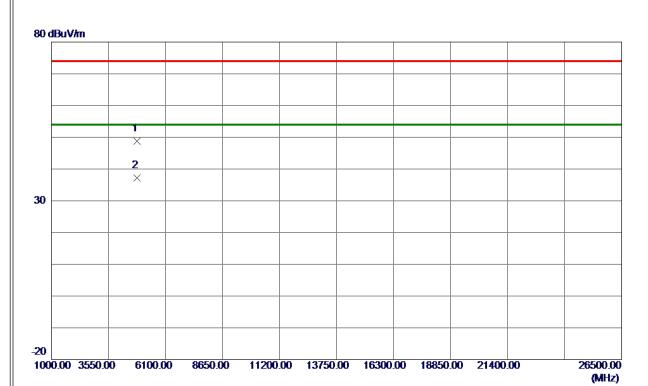


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	61. 67	8. 31	69. 98	74.00	-4.02	Peak	
2	2390. 0000	45. 48	8. 31	53. 79	54.00	-0. 21	AVG	
3	2406. 1000	94. 46	8. 33	102. 79	74.00	28. 79	Peak	No Limit
4 *	2409. 7000	85. 61	8. 33	93. 94	54.00	39. 94	AVG	No Limit

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





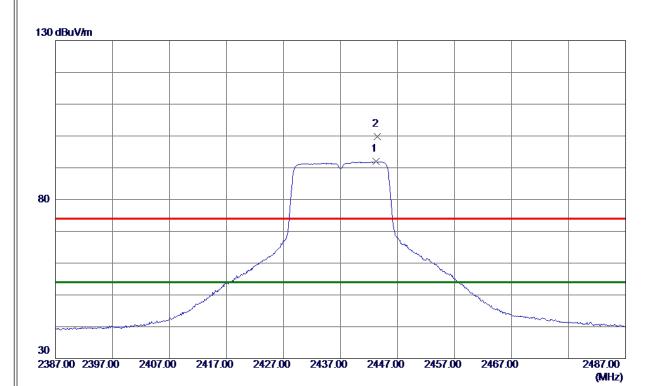


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823. 7580	43. 49	5. 23	48. 72	74.00	-25. 28	Peak	
2 *	4823. 9900	31. 93	5. 23	37. 16	54. 00	-16. 84	AVG	

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



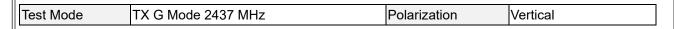


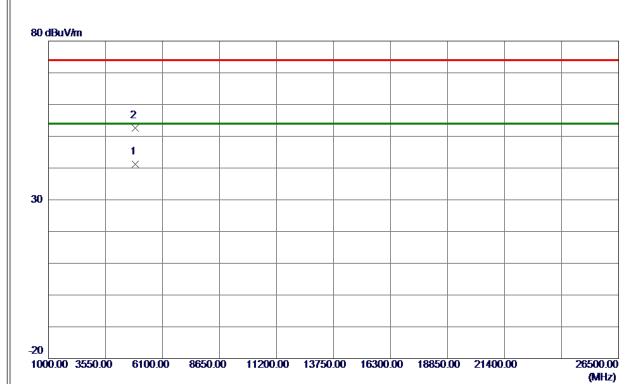


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2443. 2000	83. 55	8. 37	91. 92	54.00	37. 92	AVG	No Limit
2	2443. 4000	91. 41	8. 37	99. 78	74.00	25. 78	Peak	No Limit

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





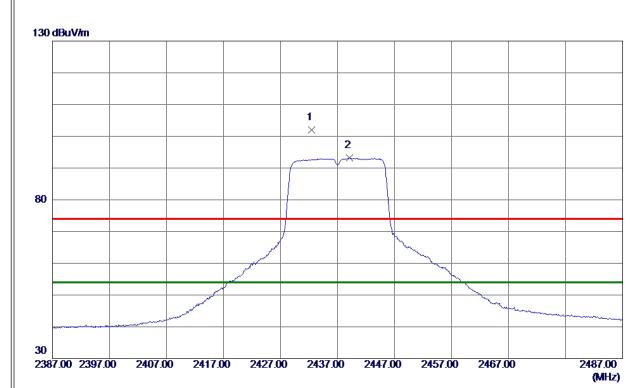


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873. 9500	35. 65	5. 48	41. 13	54.00	-12.87	AVG	
2	4874. 0160	47. 04	5. 48	52. 52	74.00	-21. 48	Peak	

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





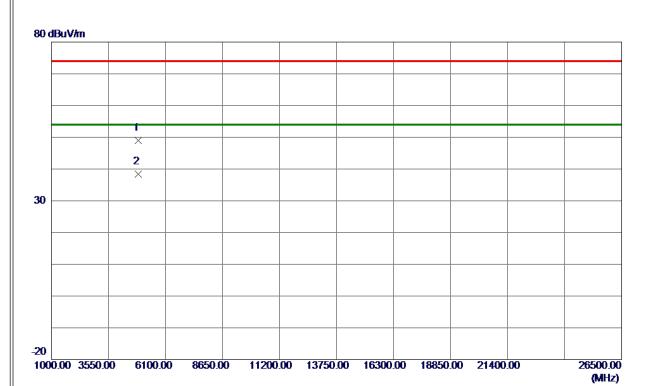


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2432. 4000	93. 58	8. 36	101. 94	74.00	27. 94	Peak	No Limit
2 *	2439. 1000	84. 75	8. 37	93. 12	54.00	39. 12	AVG	No Limit

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





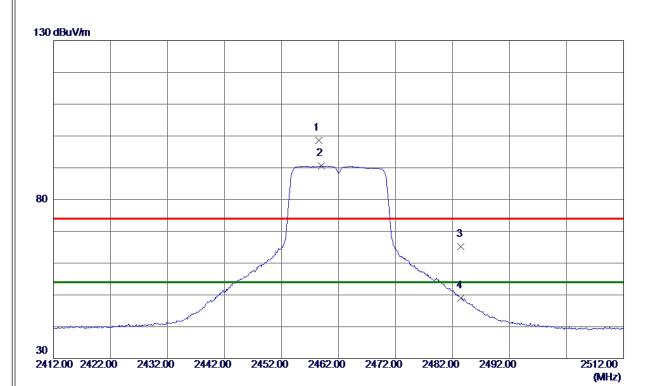


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.8620	43. 50	5. 48	48. 98	74.00	-25. 02	Peak	
2 *	4873. 8700	32. 88	5. 48	38. 36	54.00	-15. 64	AVG	

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





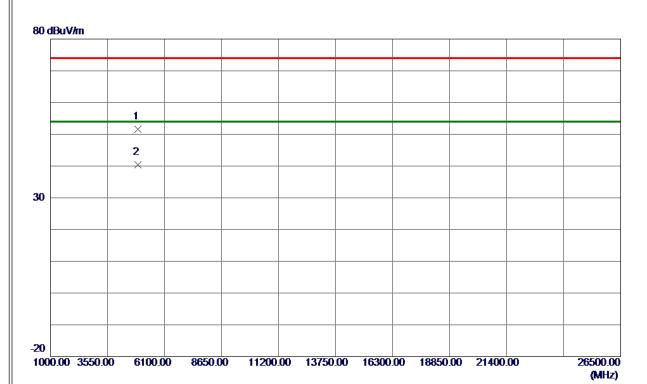


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2458. 5000	90. 25	8. 39	98. 64	74.00	24. 64	Peak	No Limit
2 *	2459.0000	82. 14	8. 39	90. 53	54.00	36. 53	AVG	No Limit
3	2483. 5000	56. 70	8. 42	65. 12	74.00	-8. 88	Peak	
4	2483. 5000	40. 52	8. 42	48. 94	54. 00	-5. 06	AVG	

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





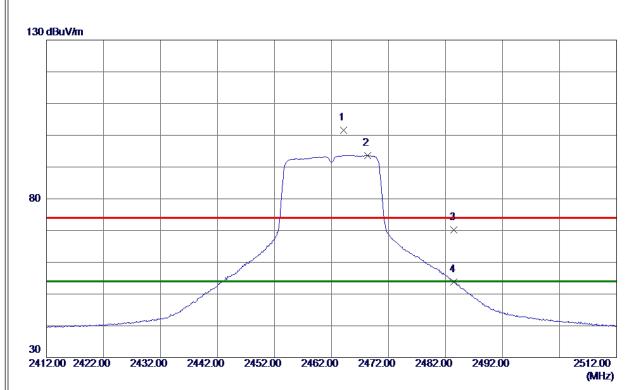


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923. 0419	45. 96	5. 73	51. 69	74.00	-22. 31	Peak	
2 *	4924. 0040	34. 75	5. 73	40. 48	54.00	-13. 52	AVG	

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





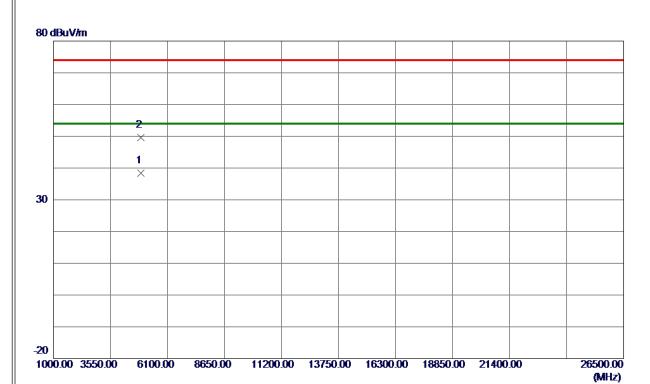


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2464. 1000	93. 27	8. 40	101. 67	74.00	27. 67	Peak	No Limit
2 *	2468. 3000	85. 29	8. 40	93. 69	54.00	39. 69	AVG	No Limit
3	2483. 5000	61.81	8. 42	70. 23	74.00	-3. 77	Peak	
4	2483. 5000	45. 41	8. 42	53. 83	54.00	-0. 17	AVG	

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





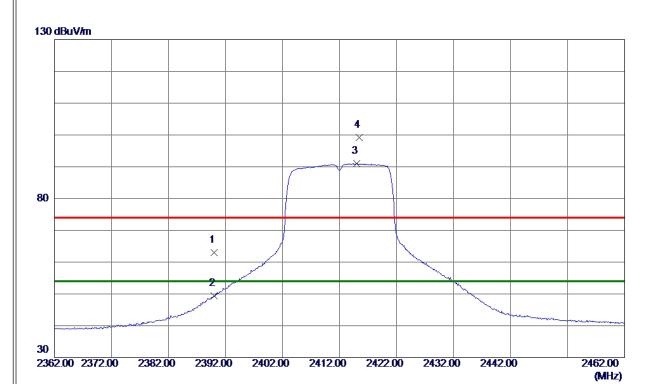


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923. 9660	32. 74	5. 73	38. 47	54.00	-15. 53	AVG	
2	4924. 0660	43. 80	5. 74	49. 54	74.00	-24. 46	Peak	

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





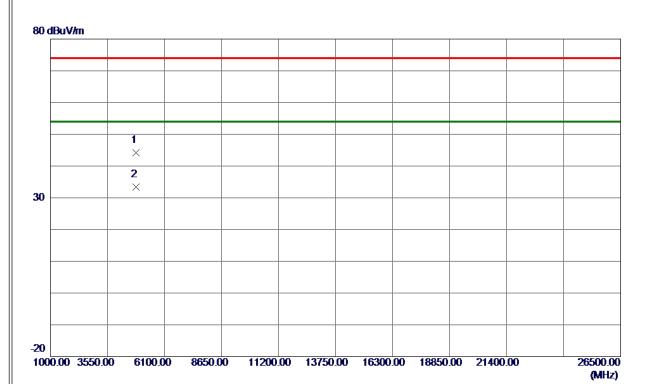


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	54. 70	8. 31	63. 01	74.00	-10. 99	Peak	
2	2390.0000	41.02	8. 31	49. 33	54.00	-4.67	AVG	
3 *	2415. 0000	82. 67	8. 34	91. 01	54.00	37. 01	AVG	No Limit
4	2415. 4000	90. 77	8. 34	99. 11	74.00	25. 11	Peak	No Limit

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





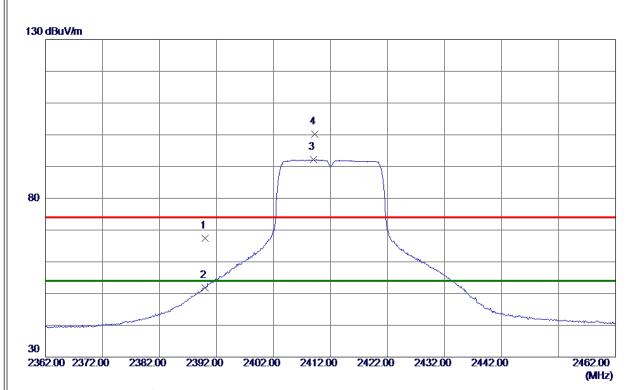


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.0680	39. 06	5. 22	44. 28	74.00	-29. 72	Peak	
2 *	4823. 5299	28. 14	5. 23	33. 37	54.00	-20. 63	AVG	

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





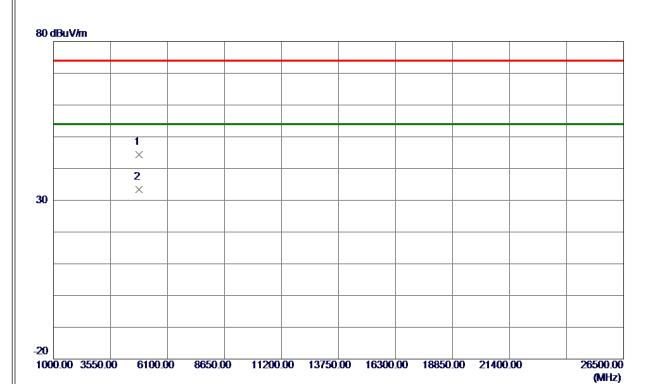


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	59. 05	8. 31	67. 36	74.00	-6. 64	Peak	
2	2390. 0000	43. 47	8. 31	51. 78	54.00	-2. 22	AVG	
3 *	2409.0000	83. 85	8. 33	92. 18	54.00	38. 18	AVG	No Limit
4	2409. 2000	91. 78	8. 33	100. 11	74. 00	26. 11	Peak	No Limit

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



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

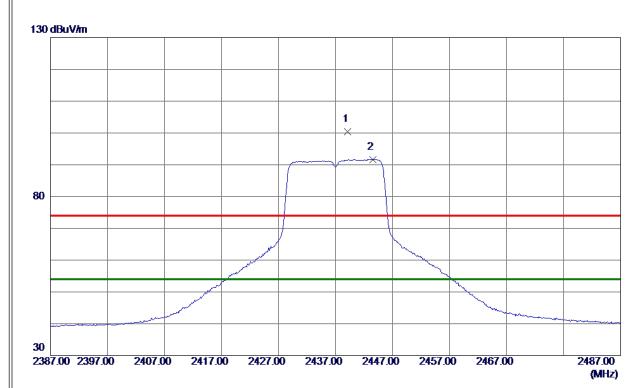


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823. 2360	39. 13	5. 22	44. 35	74.00	-29.65	Peak	
2 *	4824. 9140	28. 11	5. 23	33. 34	54. 00	-20. 66	AVG	

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





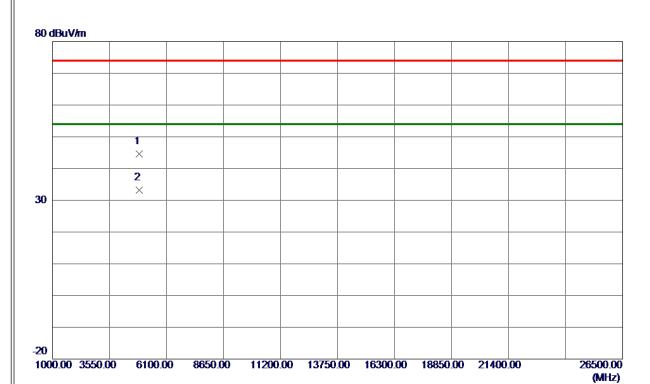


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439. 1000	92. 03	8. 37	100. 40	74.00	26. 40	Peak	No Limit
2 *	2443. 5000	83. 32	8. 37	91. 69	54.00	37. 69	AVG	No Limit

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



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

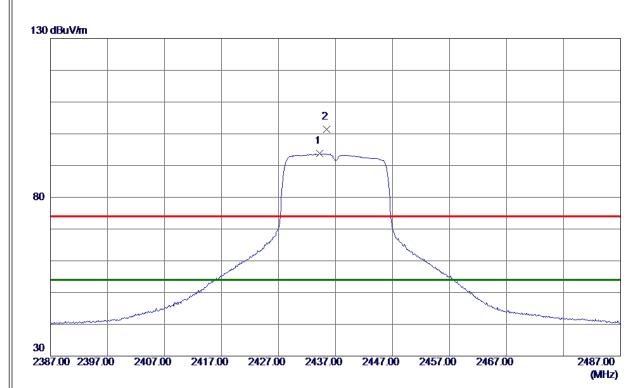


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874. 3060	39. 17	5. 48	44. 65	74.00	-29. 35	Peak	
2 *	4874. 6940	27. 75	5. 48	33. 23	54.00	-20. 77	AVG	

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





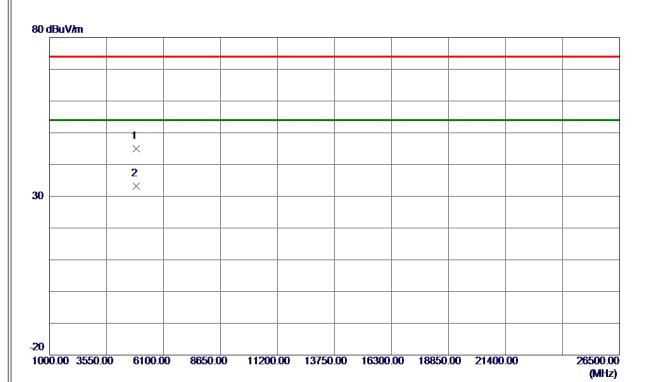


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2434. 2000	85. 37	8. 36	93. 73	54.00	39. 73	AVG	No Limit
2	2435. 4000	93. 00	8. 36	101. 36	74.00	27. 36	Peak	No Limit

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





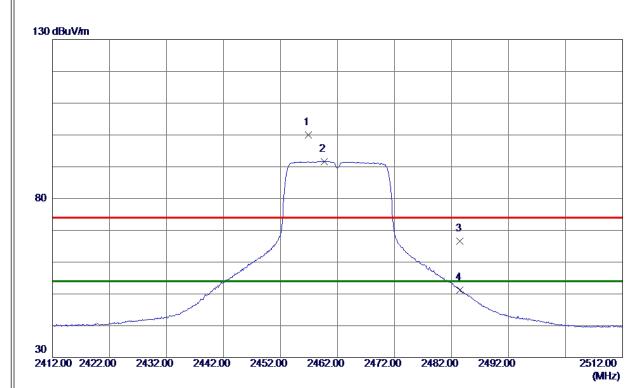


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874. 7340	39. 45	5. 48	44. 93	74.00	-29. 07	Peak	
2 *	4874, 9580	27. 69	5. 49	33, 18	54.00	-20. 82	AVG	

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





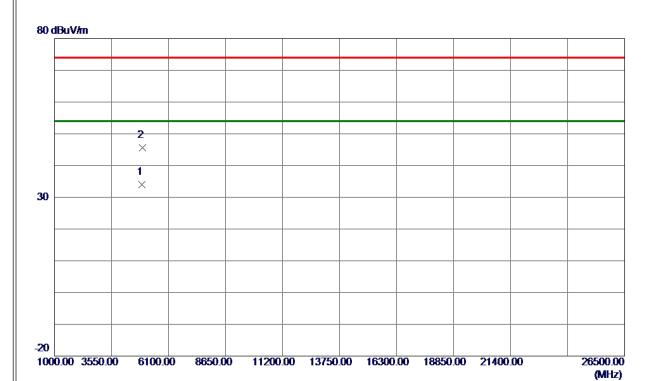


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2456. 9000	91. 62	8. 39	100. 01	74.00	26. 01	Peak	No Limit
2 *	2459. 7000	83. 28	8. 39	91. 67	54.00	37. 67	AVG	No Limit
3	2483. 5000	58. 13	8. 42	66. 55	74.00	−7. 45	Peak	
4	2483. 5000	42. 69	8. 42	51. 11	54. 00	-2. 89	AVG	

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



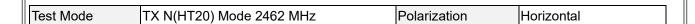


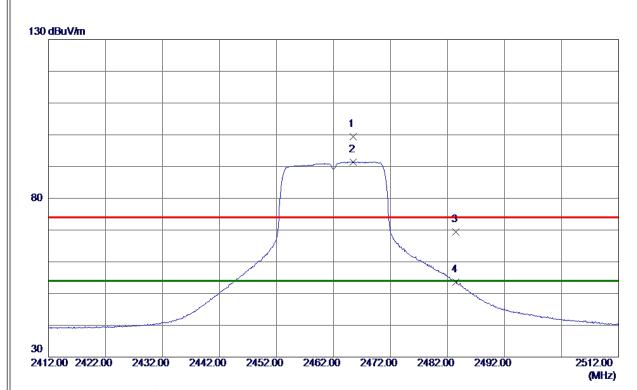


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923. 3380	28. 21	5. 73	33. 94	54.00	-20.06	AVG	
2	4924, 6460	39. 95	5. 74	45. 69	74. 00	-28. 31	Peak	

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



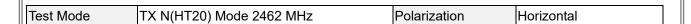


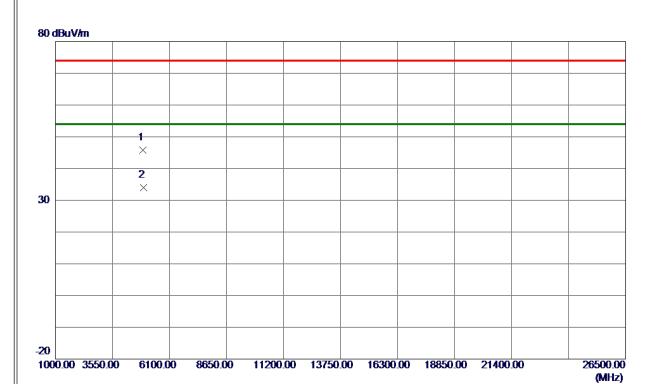


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2465. 4000	90. 99	8. 40	99. 39	74.00	25. 39	Peak	No Limit
2 *	2465. 5000	83. 02	8. 40	91. 42	54.00	37. 42	AVG	No Limit
3	2483. 5000	60. 95	8. 42	69. 37	74.00	-4.63	Peak	
4	2483. 5000	45. 20	8. 42	53. 62	54. 00	-0. 38	AVG	

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



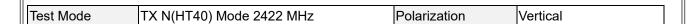


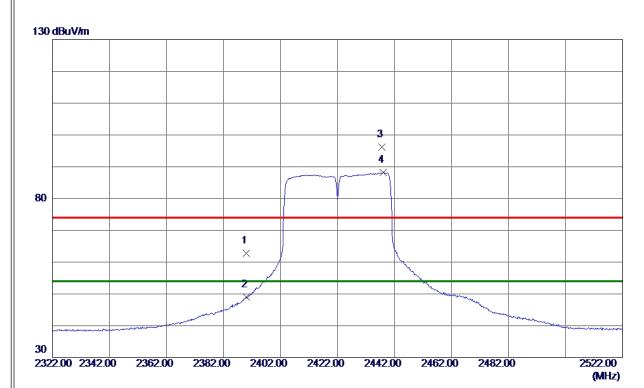


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923. 3840	40.07	5. 73	45. 80	74.00	-28. 20	Peak	
2 *	4924. 2180	28. 17	5. 74	33. 91	54.00	-20.09	AVG	

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





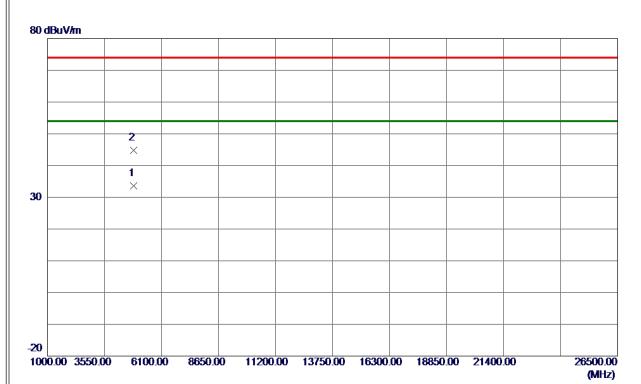


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	54. 41	8. 31	62. 72	74.00	-11. 28	Peak	
2	2390. 0000	40. 64	8. 31	48. 95	54.00	-5. 05	AVG	
3	2437. 6000	87. 89	8. 37	96. 26	74.00	22. 26	Peak	No Limit
4 *	2438. 0000	79. 75	8. 37	88. 12	54. 00	34. 12	AVG	No Limit

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



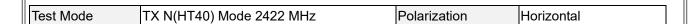


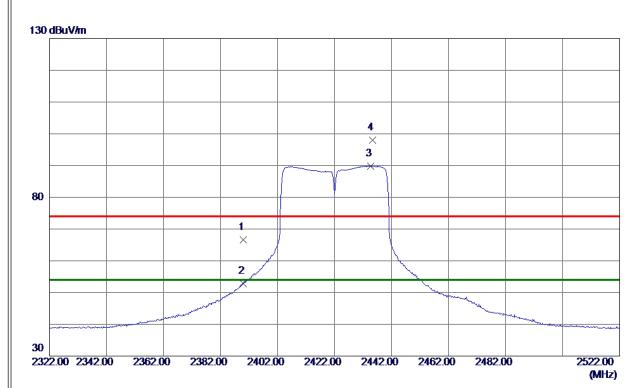


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4844. 4980	28. 36	5. 33	33. 69	54.00	-20. 31	AVG	
2	4844. 7580	39. 45	5. 33	44. 78	74. 00	-29. 22	Peak	

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





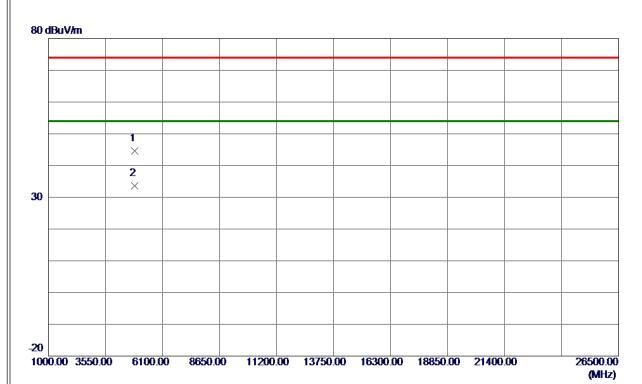


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	58. 30	8. 31	66. 61	74.00	-7. 39	Peak	
2	2390. 0000	44. 46	8. 31	52. 77	54.00	-1. 23	AVG	
3 *	2434. 6000	81. 52	8. 36	89. 88	54.00	35. 88	AVG	No Limit
4	2435. 4000	89. 73	8. 36	98. 09	74.00	24. 09	Peak	No Limit

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





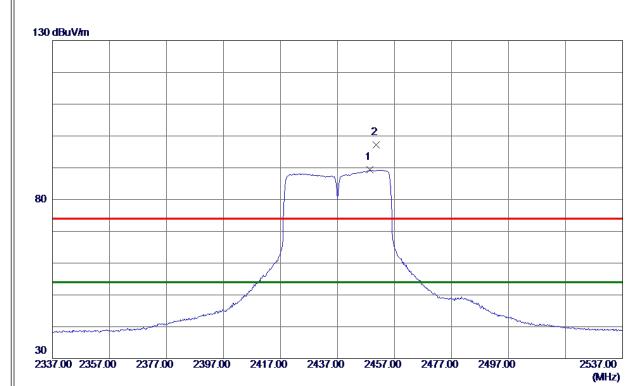


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843. 0580	39. 36	5. 32	44. 68	74.00	-29. 32	Peak	
2 *	4843, 6960	28, 30	5, 33	33, 63	54.00	-20, 37	AVG	

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



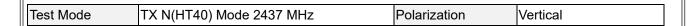


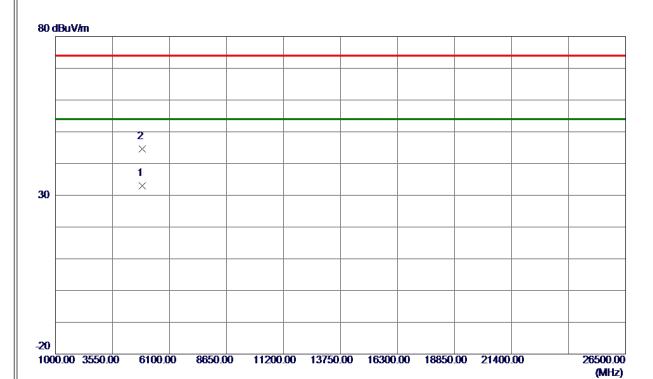


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2448. 4000	80. 97	8. 38	89. 35	54.00	35. 35	AVG	No Limit
2	2450. 6000	88. 83	8. 38	97. 21	74. 00	23. 21	Peak	No Limit

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



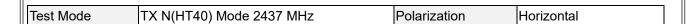


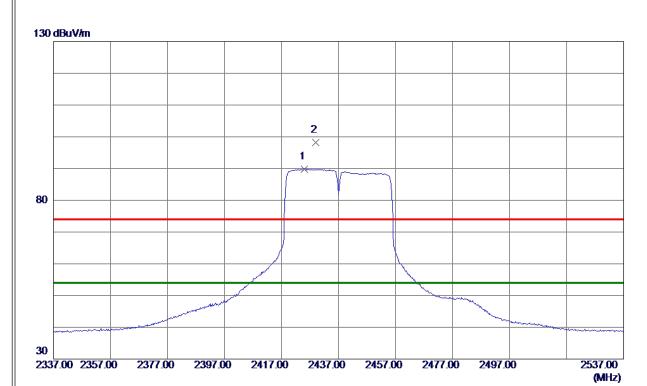


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874. 2860	27. 58	5. 48	33. 06	54.00	-20.94	AVG	
2	4874, 3980	39. 08	5. 48	44. 56	74. 00	-29. 44	Peak	

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





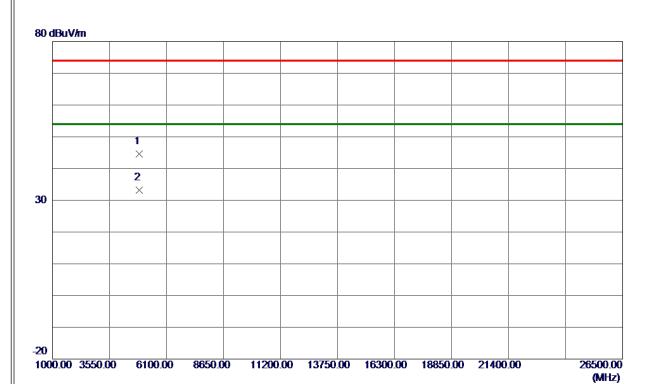


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2425. 0000	81. 47	8. 35	89. 82	54.00	35. 82	AVG	No Limit
2	2429, 0000	89. 92	8. 35	98. 27	74. 00	24, 27	Peak	No Limit

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



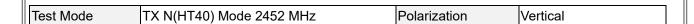
Test Mode TX N(HT40) Mode 2437 MHz Polarization Horizontal	
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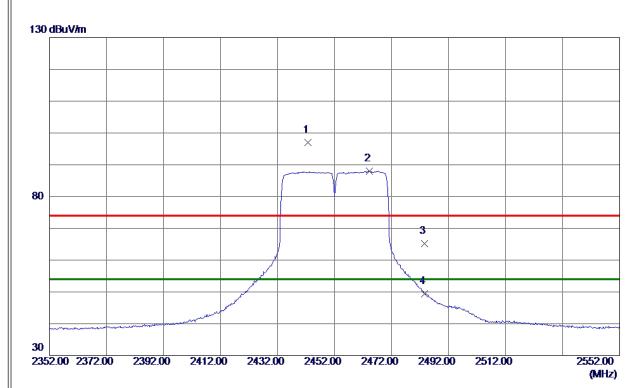


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873. 4700	39. 15	5. 48	44. 63	74.00	-29. 37	Peak	
2 *	4874. 3040	27. 66	5. 48	33. 14	54. 00	-20. 86	AVG	

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





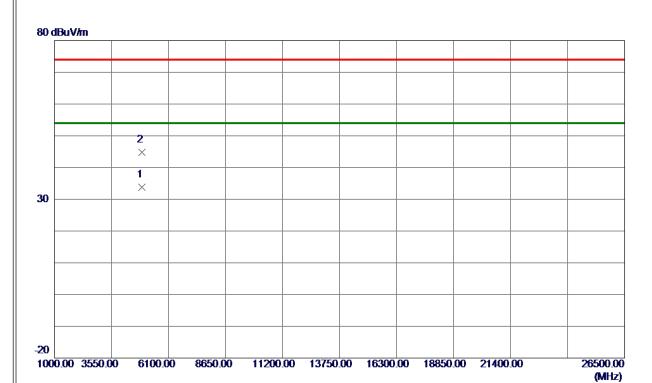


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2442. 6000	88. 67	8. 37	97. 04	74.00	23. 04	Peak	No Limit
2 *	2464. 2000	79. 52	8. 40	87. 92	54.00	33. 92	AVG	No Limit
3	2483. 5000	56. 83	8. 42	65. 25	74.00	-8. 75	Peak	
4	2483. 5000	40. 89	8. 42	49. 31	54.00	-4. 69	AVG	

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



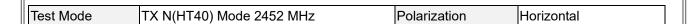
Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical

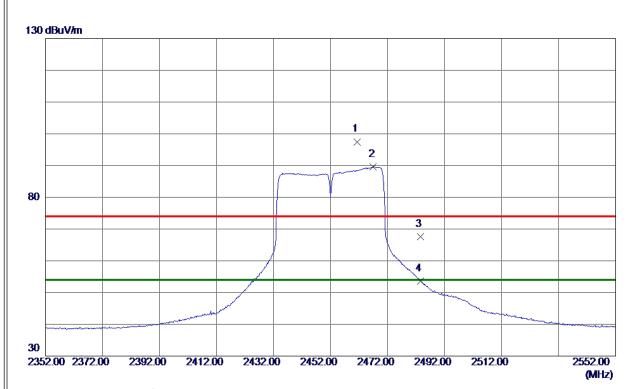


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4904. 4120	28. 16	5. 64	33. 80	54.00	-20. 20	AVG	
2	4904. 8840	39. 10	5. 64	44. 74	74.00	-29. 26	Peak	

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





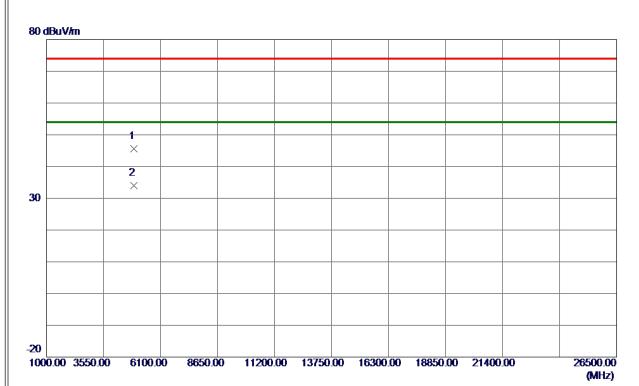


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461. 4000	89. 10	8. 40	97. 50	74.00	23. 50	Peak	No Limit
2 *	2467. 0000	81. 15	8. 40	89. 55	54.00	35. 55	AVG	No Limit
3	2483. 5000	59. 19	8. 42	67. 61	74.00	-6. 39	Peak	
4	2483. 5000	45. 15	8. 42	53. 57	54. 00	-0. 43	AVG	

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







No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4904. 0200	39. 89	5. 63	45 . 52	74.00	-28. 48	Peak	
2 *	4904. 3140	28. 33	5. 63	33. 96	54. 00	-20. 04	AVG	

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

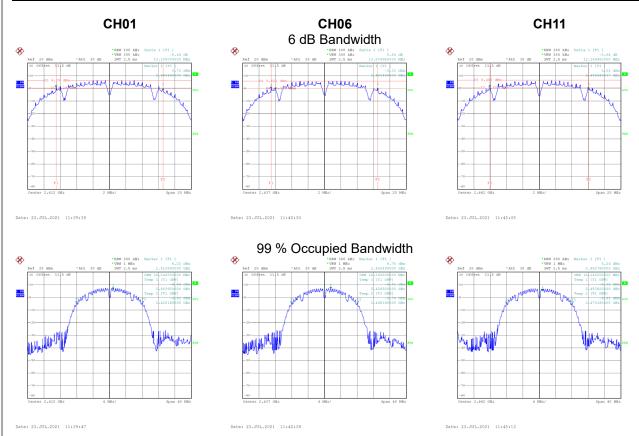


APPENDIX E - BANDWIDTH	



Test Mode	TX B Mode
1001111040	171000

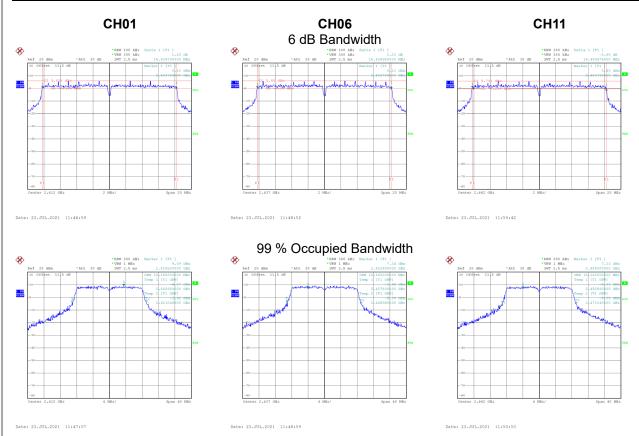
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	13.10	16.24	0.50	Complies
06	2437	13.08	16.24	0.50	Complies
11	2462	12.15	16.24	0.50	Complies





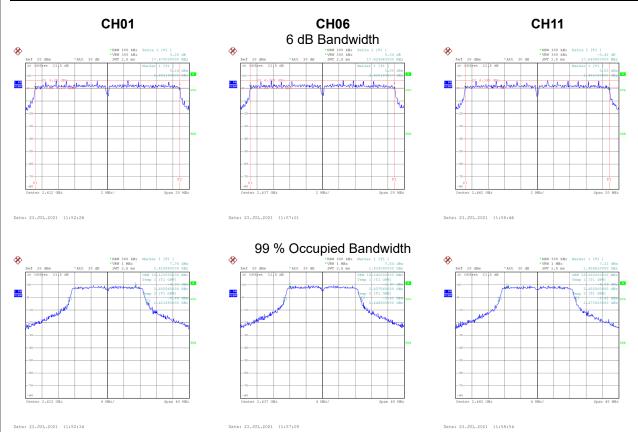
Test Mode TX G Mod

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.44	18.16	0.50	Complies
06	2437	16.44	18.16	0.50	Complies
11	2462	16.46	18.16	0.50	Complies





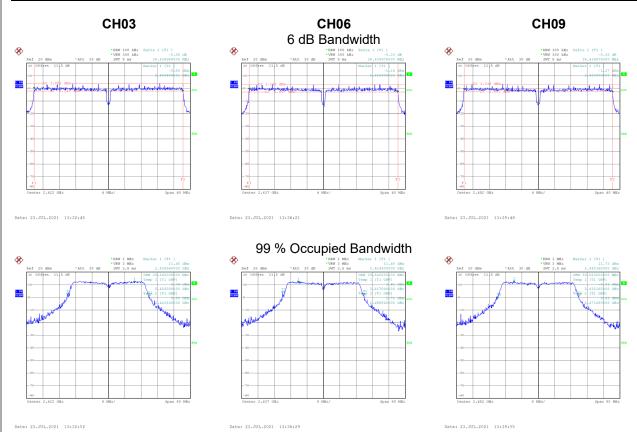
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.67	19.12	0.50	Complies
06	2437	17.63	19.04	0.50	Complies
11	2462	17.65	18.96	0.50	Complies





Test Mode TX N(HT40) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	36.44	39.84	0.50	Complies
06	2437	36.44	39.84	0.50	Complies
09	2452	36.44	39.52	0.50	Complies





APPENDIX F - MAXIMUM OUTPUT POWER



Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.62	30.00	1.0000	Complies
06	2437	22.39	30.00	1.0000	Complies
11	2462	20.54	30.00	1.0000	Complies

Test Mode TX G Mode

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.15	30.00	1.0000	Complies
06	2437	25.94	30.00	1.0000	Complies
11	2462	24.58	30.00	1.0000	Complies

Test Mode TX N(HT20) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.72	30.00	1.0000	Complies
06	2437	25.95	30.00	1.0000	Complies
11	2462	24.68	30.00	1.0000	Complies

Test Mode TX N(HT40) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.63	30.00	1.0000	Complies
06	2437	25.07	30.00	1.0000	Complies
09	2452	24.73	30.00	1.0000	Complies



APPENDIX G - CONDUCTED SPURIOUS EMISSIONS



