TEST REPORT

Dt&C

Dt&C Co., Ltd.

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1. Report No : DRTFCC2304-0054			
2. Customer			
Name (FCC) : Point Mobile Co., LTD. / Name (IC) : POINTMOBILE CO.,LTD			
 Address (FCC) : B-9F, Kabul Great Valley 32 Digital-ro 9-gil, Geumcheon-gu Seoul South Korea 153-709 Address (IC) : B-9F Kabul Great Valley, 32, Digital-ro 9-gil, Geumcheon-gu Seoul Korea (Republic Of) 			
3. Use of Report : FCC & IC Certification			
 4. Product Name / Model Name : Mobile Computer / PM560 FCC ID : V2X-PM560 IC : 10664A-PM560 			
5. FCC Regulation(s): Part 15.247 IC Standard(s): RSS-247 Issue 2, RSS-Gen Issue 5 Test Method used: ANSI C63.10-2013, KDB558074 D01v05r02			
6. Date of Test : 2023.02.10 ~ 2023.03.29			
7. Location of Test : 🛛 Permanent Testing Lab 🛛 On Site Testing			
8. Testing Environment : See appended test report.			
9. Test Result : Refer to the attached test result.			
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report is not related to KOLAS accreditation.			
Tested by Technical Manager			
Affirmation Name : SeungMin Gil (Signature) Name : JaeJin Lee (Signature)			
2023.04.14.			
Dt&C Co., Ltd.			
If this report is required to confirmation of authenticity, please contact to report@dtnc.net			

Test Report Version

Test Report No.	Date	Description	Revised by	Reviewed by
DRTFCC2304-0054	Apr, 14. 2023	Initial issue	SeungMin Gil	JaeJin Lee

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1. General Information

1.1. Description of EUT

Equipment Class	Digital Transmission System (DTS)		
Product Name	Mobile Computer		
Model Name	PM560		
Add Model Name	-		
Firmware Version Identification Number	56.00xx		
EUT Serial Number	Conducted : 2223710235, 1822010146 Radiated: 2303310292		
Power Supply	Module 1: 3.63 V Module 2: 3.80 V		
Frequency Range	nge 2 402 MHz ~ 2 480 MHz		
Max. RF Output Power Module 1: 9.94 dBm (0.010 W) Module 2: 5.33 dBm (0.003 W)			
Modulation Technique	GFSK		
Symbol Rate	1 Ms/s(1 Mbps, Coded S=2, Coded S=8), 2 Ms/s(2 Mbps)		
Antenna Specification Module 1 Antenna Type: LDS Antenna, Gain: 1.979 dBi (PK) Module 2 Antenna Type: FPCB Antenna, Gain: 4.260 dBi (PK)			

Note: The EUT has two BLE transmitters.

The module 1 is operated by the main battery and the module 2 is operated by the backup battery.

1.2. Declaration by the applicant / manufacturer

N/A

1.3. Testing Laboratory

Dt&C Co., Ltd.

The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042.

The test site complies with the requirements of Part 2.948 according to ANSI C63.4-2014.

- FCC & IC MRA Designation No. : KR0034

- ISED#: 5740A

www.dtnc.net		
Telephone	:	+ 82-31-321-2664
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1.4. Testing Environment

Ambient Condition		
Temperature	+21 °C ~ +24 °C	
Relative Humidity	+36 % ~ +41 %	

1.5. Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C63.4-2014 and ANSI C63.10-2013. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95 % level of confidence.

Parameter	Measurement uncertainty
Antenna-port conducted emission	1.0 dB (The confidence level is about 95 %, $k = 2$)
AC power-line conducted emission	3.4 dB (The confidence level is about 95 %, $k = 2$)
Radiated emission (1 GHz Below)	4.8 dB (The confidence level is about 95 %, $k = 2$)
Radiated emission (1 GHz ~ 18 GHz)	5.0 dB (The confidence level is about 95 %, k = 2)
Radiated emission (18 GHz Above)	5.2 dB (The confidence level is about 95 %, $k = 2$)

1.6. Test Equipment List

Туре	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	22/06/24	23/06/24	MY46471622
Spectrum Analyzer	Agilent Technologies	N9020A	22/12/16	23/12/16	MY48011700
Spectrum Analyzer	Agilent Technologies	N9020A	22/06/24	23/06/24	US47360812
DC Power Supply	Agilent Technologies	66332A	22/06/24	23/06/24	US37473627
Multimeter	FLUKE	17B+	22/12/16	23/12/16	36390701WS
Signal Generator	Rohde Schwarz	SMBV100A	22/12/16	23/12/16	255571
Signal Generator	ANRITSU	MG3695C	22/12/16	23/12/16	173501
Thermohygrometer	BODYCOM	BJ5478	22/12/16	23/12/16	120612-1
Thermohygrometer	BODYCOM	BJ5478	22/12/16	23/12/16	120612-2
Thermohygrometer	BODYCOM	BJ5478	22/06/24	23/06/24	N/A
Loop Antenna	ETS-Lindgren	6502	22/12/16	24/12/16	00226186
Hybrid Antenna	Schwarzbeck	VULB 9160	22/12/16	23/12/16	3362
Horn Antenna	ETS-Lindgren	3117	22/06/24	23/06/24	00143278
Horn Antenna	A.H.Systems Inc.	SAS-574	22/06/24	23/06/24	155
PreAmplifier	tsj	MLA-0118-B01-40	22/12/16	23/12/16	1852267
PreAmplifier	tsj	MLA-1840-J02-45	22/06/24	23/06/24	16966-10728
PreAmplifier	H.P	8447D	22/12/16	23/12/16	2944A07774
High Pass Filter	Wainwright Instruments	WHKX12-935-1000- 15000-40SS	22/06/24	23/06/24	8
High Pass Filter	Wainwright Instruments	WHKX10-2838-3300- 18000-60SS	22/06/24	23/06/24	1
High Pass Filter	Wainwright Instruments	WHNX8.0/26.5-6SS	22/06/24	23/06/24	3
Attenuator	Hefei Shunze	SS5T2.92-10-40	22/06/24	23/06/24	16012202
Attenuator	Aeroflex/Weinschel	56-3	22/06/24	23/06/24	Y2370
Attenuator	SMAJK	SMAJK-2-3	22/06/24	23/06/24	3
Attenuator	SMAJK	SMAJK-2-3	22/06/24	23/06/24	2
Attenuator	Aeroflex/Weinschel	86-10-11	22/06/24	23/06/24	408
Power Meter & Wide	Anritsu	ML2496A	22/12/16	23/12/16	1338004
Bandwidth Sensor		MA2411B	22/12/16		1911481
EMI Test Receiver	ROHDE&SCHWARZ	ESCI7	23/01/31	24/01/31	100910
PULSE LIMITER	Rohde Schwarz	ESH3-Z2	22/08/22	23/08/22	101333
LISN	SCHWARZBECK	NSLK 8128 RC	22/10/26	23/10/26	8128 RC-387
Thermo Hygro Meter	TESTO	608-H1	23/01/13	24/01/13	45084791
Cable	Dt&C	Cable	23/01/04	24/01/04	G-2
Cable	HUBER+SUHNER	SUCOFLEX 100	23/01/04	24/01/04	G-3
Cable	Dt&C	Cable	23/01/04	24/01/04	G-4
Cable	OMT	YSS21S	23/01/04	24/01/04	G-5
Cable	Junkosha	MWX241	23/01/03	24/01/03	mmW-1
Cable	Junkosha	MWX241	23/01/03	24/01/03	mmW-4
Cable	HUBER+SUHNER	SUCOFLEX100	23/01/04	24/01/04	M-01
Cable	HUBER+SUHNER	SUCOFLEX100	23/01/04	24/01/04	M-02
Cable	JUNKOSHA	MWX241/B	23/01/04	24/01/04	M-03
Cable	JUNKOSHA	J12J101757-00	23/01/04	24/01/04	M-07
Cable	HUBER+SUHNER	SUCOFLEX106	23/01/04	24/01/04	M-09
Cable	RADIALL	TESTPRO 3	23/01/04	24/01/04	RFC-44
Cable	Dt&C	Cable	23/01/04	24/01/04	RFC-69
Test Software	tsj	Radiated Emission Measurement	NA	NA	Version 2.00.0147
Test Software	tsj	Noise Terminal Measurement	NA	NA	Version 2.00.0185

Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017.

Note2: The cable is not a regular calibration item, so it has been calibrated by Dt&C itself.



2. Test Methodology

The measurement procedures described in the ANSI C63.10-2013 and the guidance provided in KDB558074 D01v05r02 were used in measurement of the EUT.

The EUT was tested per the guidance of KDB558074 D01v05r02. And ANSI C63.10-2013 was used to reference appropriate EUT setup and maximizing procedures of radiated spurious emission and AC line conducted emission testing.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the test mode to fix the TX frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

Conducted Emissions

The power-line conducted emission test procedure is not described on the KDB558074 D01v05r02.

So this test was fulfilled with the requirements in Section 6.2 of ANSI C63.10-2013.

The EUT is placed on the wooden table, which is 0.8 m above ground plane and the conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and Average detector.

Radiated Emissions

Basically the radiated tests were performed with KDB558074 D01v05r02. But some requirements and procedures like test site requirements, EUT setup and maximizing procedure were fulfilled with the requirements in Section 5 and 6 of the ANSI C63.10-2013 as stated on section 12.1 of the KDB558074 D01v05r02.

The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

2.4. Instrument Calibration

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.



2.5. Description of Test Modes

The EUT has been tested with the operating condition for maximizing the emission characteristics. A test program is used to control the EUT for staying in continuous transmitting. The Bluetooth low energy mode with below low, middle and high channels were tested and reported.

	_	Tested Frequency (MHz)			
Test Mode	Description	Lowest Frequency	Middle Frequency	Highest Frequency	
TM 1	BT LE(1 Mbps) _Module 1	2 402	2 440	2 480	
TM 2	BT LE(2 Mbps) _Module 1	2 402	2 440	2 480	
ТМ 3	BT LE(1 Mbps) _Module 2	2 402	2 440	2 480	
TM 4	BT LE(2 Mbps) _Module 2	2 402	2 440	2 480	

Note1: The worst case data rate was determined according to the power measurements.

EUT Operation test setup

Module 1

- Test Software: Qualcomm Radio Control Tool 4.0.142.0
- Power setting: Default of EUT

Module 2

- Test Software: nRF Connect for Desktop 4.0.0.0
- Power setting: 5

3. Antenna Requirements

According to Part 15.203

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

The antenna is attached on the device by means of unique coupling method (Spring Tension). Therefore this E.U.T complies with the requirement of Part 15.203

4. Summary of Test Results

FCC part section(s)	RSS section(s)	Test Description	Limit	Test Condition	Status Note 1
15.247(a)	RSS-247[5.2]	6 dB Bandwidth	> 500 kHz		С
15.247(b)	RSS-247[5.4]	Maximum Peak Output Power	< 1 Watt (conducted), FCC & IC < 4 Watt (e.i.r.p), IC		С
15.247(d)	RSS-247[5.5]	Unwanted Emissions(Conducted)	20 dBc in any 100 kHz BW	Conducted	С
15.247(e)	RSS-247[5.2]	Power Spectral Density	< 8 dBm / 3 kHz		С
-	RSS-Gen[6.7]	Occupied Bandwidth (99 %)	NA		С
15.247(d) 15.205 15.209	RSS-247[5.5] RSS-Gen[8.9] RSS-Gen[8.10]	Unwanted Emissions(Radiated)	Part 15.209 limits (Refer to section 5.5)	Radiated	C Note 3
15.207	RSS-Gen [8.8]	AC Power-Line Conducted Emissions	Part 15.207 limits (Refer to section 5.6)	AC Line Conducted	С
15.203	-	Antenna Requirements	Part 15.203 (Refer to section 3)	-	С

Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable

Note 2: For radiated emission tests below 30 MHz were performed on semi-anechoic chamber which is correlated with OATS.

Note 3: This test item was performed in three orthogonal EUT positions and the worst case data was reported.



5. Test Result

5.1. Maximum Peak Conducted Output Power

Test Requirements and limit, Part 15.247(b) & RSS-247 [5.4]

A transmitter antenna terminal of EUT is connected to the input of a spectrum analyzer.

Measurement is made while the EUT is operating in transmission mode at the appropriate frequencies.

The maximum permissible conducted output power is 1 Watt.

The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e) of RSS-247.

5.1.1. Test Setup

Refer to the APPENDIX I.

5.1.2. Test Procedures

- KDB558074 D01v05r02 Section 8.3.1.1
- ANSI C63.10-2013 Section 11.9.1.1

RBW ≥ DTS bandwidth

- 1. Set the RBW ≥ DTS bandwidth. Actual RBW = 2 MHz or 2.4 MHz
- 2. Set VBW \ge 3 x RBW. Actual VBW = 6 MHz or 8 MHz
- 3. Set span ≥ 3 x RBW.
- 4. Sweep time = **auto couple**
- 5. Detector = **peak**
- 6. Trace mode = max hold
- 7. Allow trace to fully stabilize
- 8. Use peak marker function to determine the peak amplitude level.



5.1.3. Test Results

Test Mode	Tested Channel	Burst Average Output Power (dBm)	Peak Conducted Output Power (dBm)	Antenna Gain(dBi)	e.i.r.p ^{Note3} (dBm)
	Lowest	8.42	9.84	1.979	11.819
TM 1	Middle	7.92	9.65	1.979	11.629
	Highest	6.67	8.32	1.979	10.299
	Lowest	8.41	9.94	1.979	11.919
TM 2	Middle	7.91	9.80	1.979	11.779
	Highest	6.60	8.55	1.979	10.529
	Lowest	4.59	5.28	4.260	9.54
ТМ 3	Middle	4.63	5.16	4.260	9.42
	Highest	4.39	5.31	4.260	9.57
	Lowest	4.59	5.29	4.260	9.55
TM 4	Middle	4.62	5.19	4.260	9.45
	Highest	4.39	5.32	4.260	9.58

Note 1: The average output power was tested using an average power meter for reference only.

Note 2: See next pages for actual measured spectrum plots.

Note 3: e.i.r.p = $P_{cond} + G_{EUT}$

P_{cond} = measured power at feedpoint of the EUT antenna, in dBm (Peak Conducted Output Power)

 G_{EUT} = gain of the EUT radiating element (antenna), in dBi

TM 1 Test Channel : Lowest



Peak Output Power

TM 1 Test Channel : Middle



TM 1 Test Channel : Highest



TM 2 Test Channel : Lowest



Peak Output Power

TM 2 Test Channel : Middle



TM 2 Test Channel : Highest



TM 3 Test Channel : Lowest



Peak Output Power

TM 3 Test Channel : Middle



TM 3 Test Channel : Highest



TM 4 Test Channel : Lowest



Peak Output Power

TM 4 Test Channel : Middle



TM 4 Test Channel : Highest



5.2. 6 dB Bandwidth

Test Requirements and limit, Part 15.247(a) & RSS-247 [5.2]

The bandwidth at 6 dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the EUT's antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

The minimum permissible 6 dB bandwidth is 500 kHz.

5.2.1. Test Setup

Refer to the APPENDIX I.

5.2.2. Test Procedures

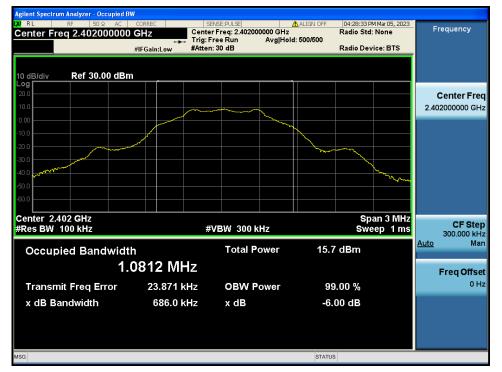
- KDB558074 D01v05r02 Section 8.2
- ANSI C63.10-2013 Section 11.8.2
- 1. Set resolution bandwidth (RBW) = 100 kHz
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = **max hold**.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Option 1 Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Option 2 - The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW \ge 3 × RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \ge 6 dB.

5.2.3. Test Results

Test Mode	Tested Channel	Test Results (MHz)
	Lowest	0.686
TM 1	Middle	0.691
	Highest	0.687
	Lowest	1.280
TM 2	Middle	1.275
	Highest	1.276
	Lowest	0.686
ТМ 3	Middle	0.692
	Highest	0.691
	Lowest	1.154
TM 4	Middle	1.155
	Highest	1.168

TM 1 Test Channel : Lowest



6 dB Bandwidth

TM 1 Test Channel : Middle



TM 1 Test Channel : Highest



TM 2 Test Channel : Lowest



6 dB Bandwidth

TM 2 Test Channel : Middle



TM 2 Test Channel : Highest



TM 3 Test Channel : Lowest



6 dB Bandwidth

TM 3 Test Channel : Middle



TM 3 Test Channel : Highest

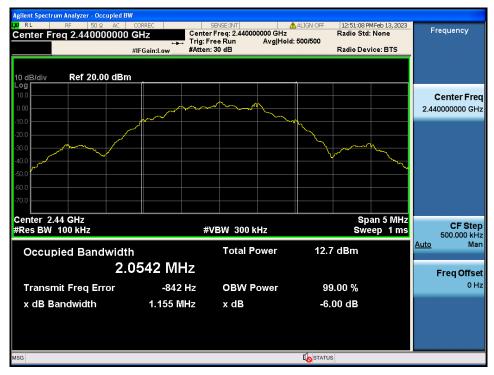


TM 4 Test Channel : Lowest



6 dB Bandwidth

TM 4 Test Channel : Middle



TM 4 Test Channel : Highest



5.3. Power Spectral Density

Test requirements and limit, Part 15.247(e) & RSS-247 [5.2]

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.3.1. Test Setup

Refer to the APPENDIX I.

5.3.2. Test Procedures

- KDB558074 D01v05r02 Section 8.4
- ANSI C63.10-2013 Section 11.10.2

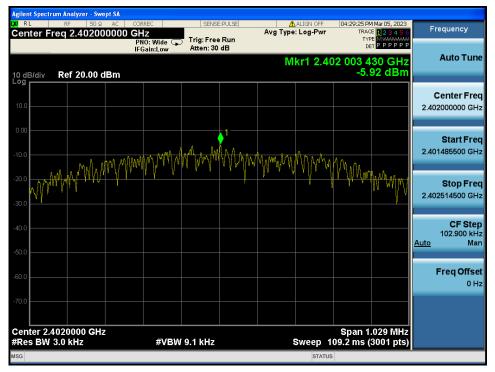
Method PKPSD (peak PSD)

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to **1.5 times** the DTS bandwidth.
- 3. Set the RBW : 3 kHz ≤ RBW ≤ 100 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = **peak.**
- 6. Sweep time = **auto couple.**
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the **peak marker function** to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3.3. Test Results

Test Mode	Tested Channel	RBW	PKPSD (dBm)	Limit (dBm / 3 kHz)
TM 1	Lowest	3 kHz	-5.92	8.00
	Middle	3 kHz	-6.25	8.00
	Highest	3 kHz	-7.53	8.00
TM 2	Lowest	3 kHz	-8.24	8.00
	Middle	3 kHz	-8.49	8.00
	Highest	3 kHz	-9.85	8.00
ТМ 3	Lowest	3 kHz	-10.35	8.00
	Middle	3 kHz	-10.43	8.00
	Highest	3 kHz	-10.40	8.00
TM 4	Lowest	3 kHz	-12.22	8.00
	Middle	3 kHz	-12.21	8.00
	Highest	3 kHz	-12.20	8.00

TM 1 Test Channel : Lowest



Maximum PKPSD

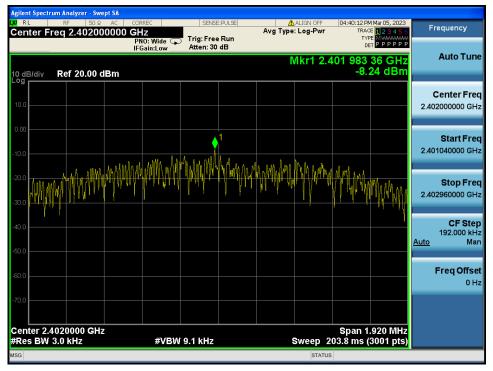
TM 1 Test Channel : Middle



TM 1 Test Channel : Highest

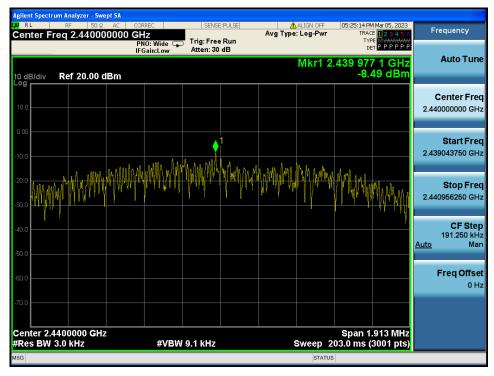


TM 2 Test Channel : Lowest

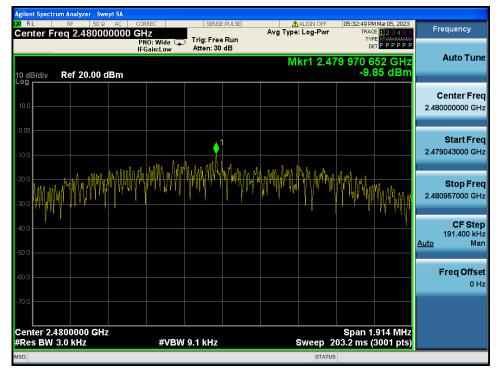


Maximum PKPSD

TM 2 Test Channel : Middle



TM 2 Test Channel : Highest

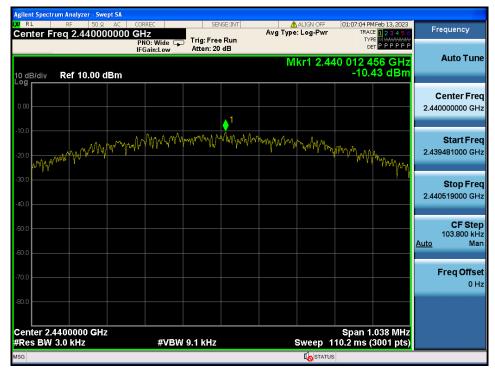


TM 3 Test Channel : Lowest

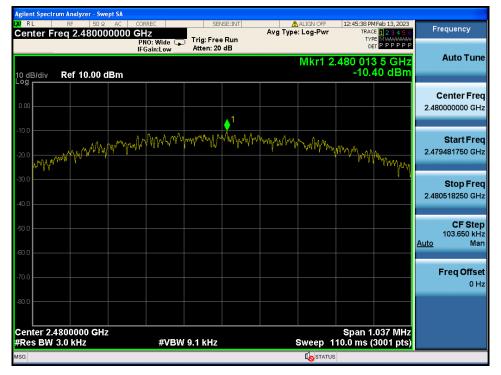


Maximum PKPSD

TM 3 Test Channel : Middle



TM 3 Test Channel : Highest



TM 4 Test Channel : Lowest



Maximum PKPSD

TM 4 Test Channel : Middle



TM 4 Test Channel : Highest



5.4. Unwanted Emissions (Conducted)

Test requirements and limit, Part 15.247(d) & RSS-247 [5.5]

In any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions :

If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured inband average PSD level. In either case, attenuation to levels below the general emission limits specified in §15.209(a) is not required.

5.4.1. Test Setup

Refer to the APPENDIX I including path loss

5.4.2. Test Procedures

- KDB558074 D01v05r02 Section 8.5
- ANSI C63.10-2013 Section 11.11

Reference level measurement

- 1. Set instrument center frequency to DTS channel center frequency.
- 2. Set the span to \geq 1.5 times the DTS bandwidth.
- 3. Set the RBW = 100 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum PSD level LIMIT LINE = 20 dB below of the reference level.

Emission level measurement

- 1. Set the center frequency and span to encompass frequency range to be measured.
- 2. Set the RBW = 100 kHz.(Actual 1 MHz , See below note)
- 3. Set the VBW ≥ 3 x RBW.(Actual 3 MHz, See below note)
- 4. Detector = **peak**.
- 5. Ensure that the number of measurement points ≥ span / RBW
- 6. Sweep time = **auto couple.**
- 7. Trace mode = **max hold.**
- 8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
- 9. Use the peak marker function to determine the maximum amplitude level.

Note: The unwanted(conducted) emission was tested with below settings.

Frequency range	RBW	VBW	Detector	Trace	Sweep Point
9 kHz ~ 30 MHz	100 kHz	300 kHz			
30 MHz ~ 10 GHz	1 MHz	3 MHz	Peak	Max Hold	40 001
10 GHz ~ 25 GHz	1 MHz	3 MHz			

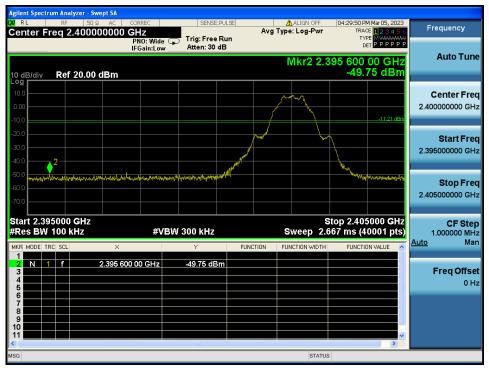
If the emission level with above setting was close to the limit (ie, less than 3 dB margin) then zoom scan is required using RBW = 100 kHz, VBW = 300 kHz, SPAN = 100 MHz and BINS = 2 001 to get accurate emission level within 100 kHz BW.

5.4.3. Test Results

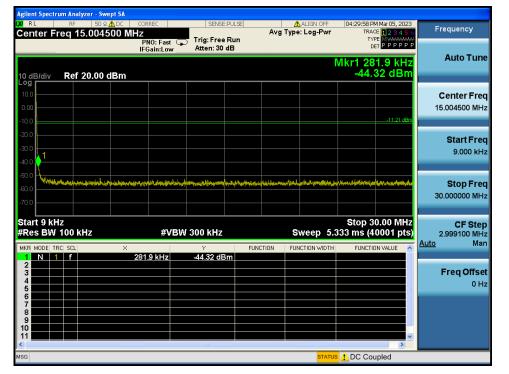


TM 1 Reference (Test Channel : Lowest)

TM 1 Low Band-edge (Test Channel : Lowest)

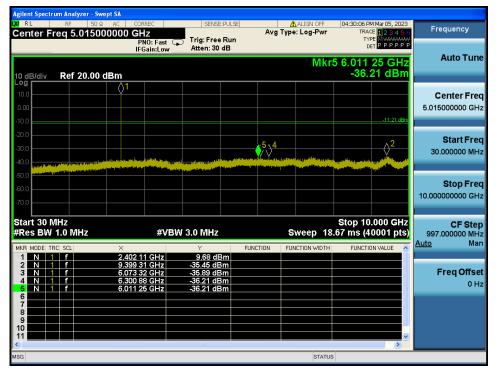


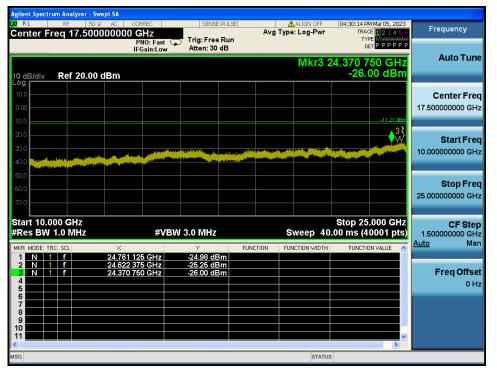




TM 1 Conducted Spurious Emissions 1 (Test Channel : Lowest)

TM 1 Conducted Spurious Emissions 2 (Test Channel : Lowest)



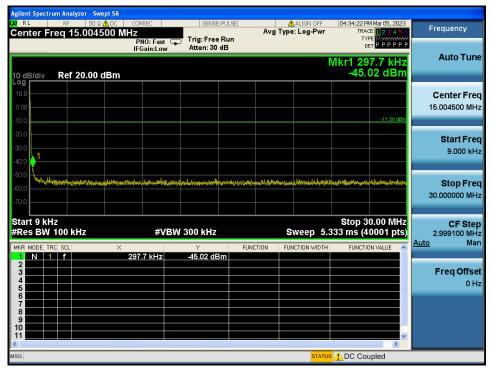


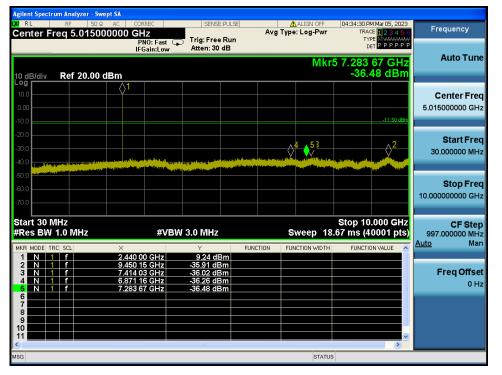
TM 1 Conducted Spurious Emissions 3 (Test Channel : Lowest)



TM 1 Reference (Test Channel : Middle)

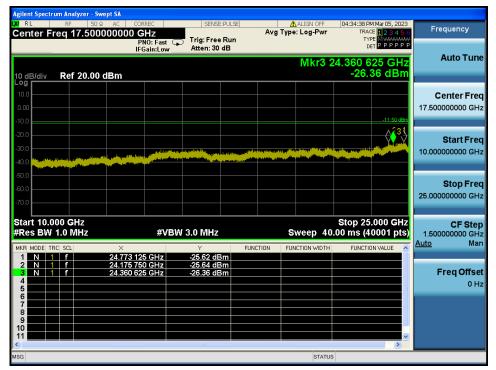
TM 1 Conducted Spurious Emissions 1 (Test Channel : Middle)





TM 1 Conducted Spurious Emissions 2 (Test Channel : Middle)

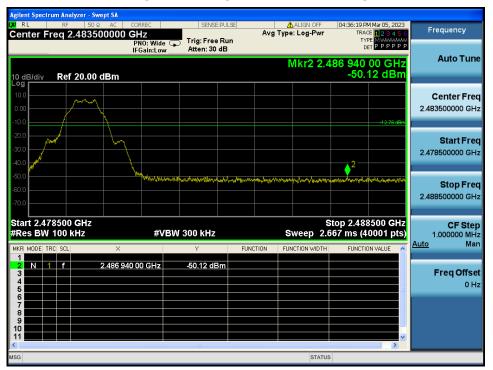
TM 1 Conducted Spurious Emissions 3 (Test Channel : Middle)

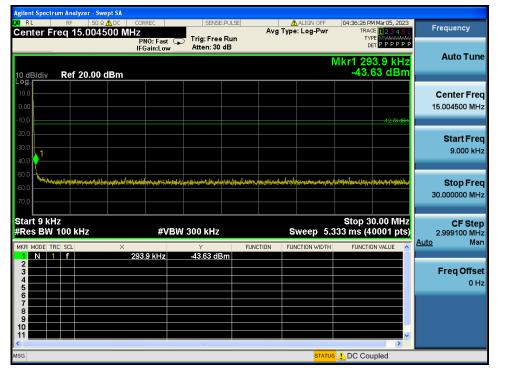




TM 1 Reference (Test Channel : Highest)

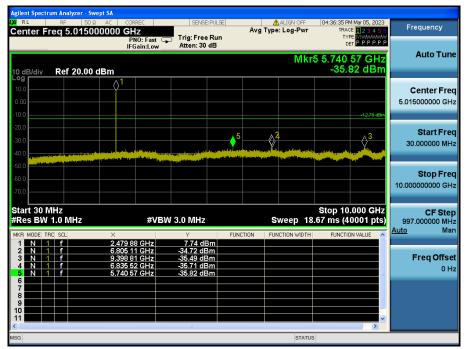
TM 1 High Band-edge (Test Channel : Highest)



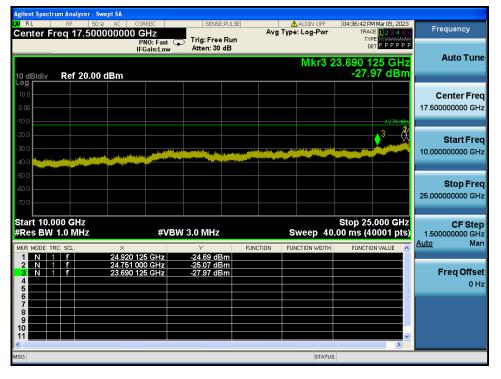


TM 1 Conducted Spurious Emissions 1 (Test Channel : Highest)

TM 1 Conducted Spurious Emissions 2 (Test Channel : Highest)





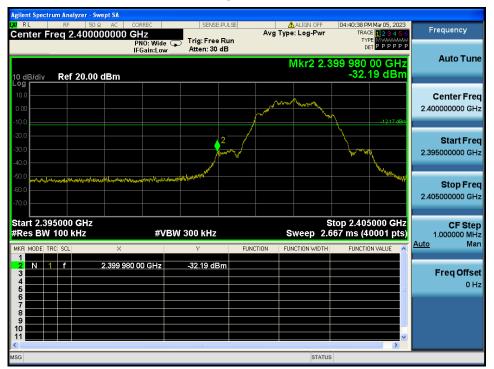


TM 1 Conducted Spurious Emissions 3 (Test Channel : Highest)

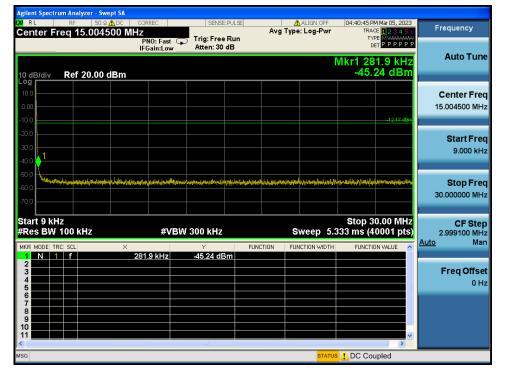


TM 2 Reference (Test Channel : Lowest)

TM 2 Low Band-edge (Test Channel : Lowest)

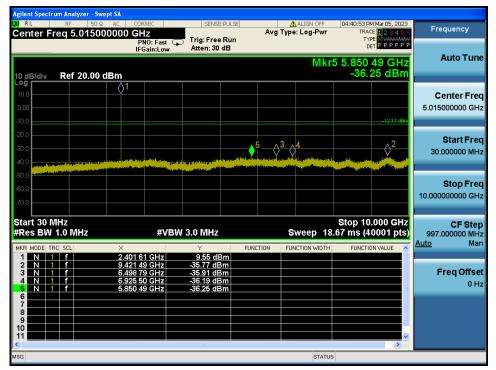


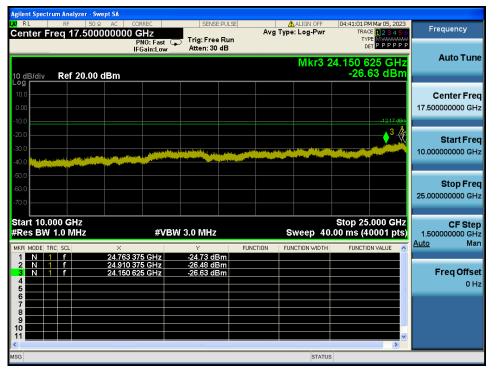




TM 2 Conducted Spurious Emissions 1 (Test Channel : Lowest)

TM 2 Conducted Spurious Emissions 2 (Test Channel : Lowest)



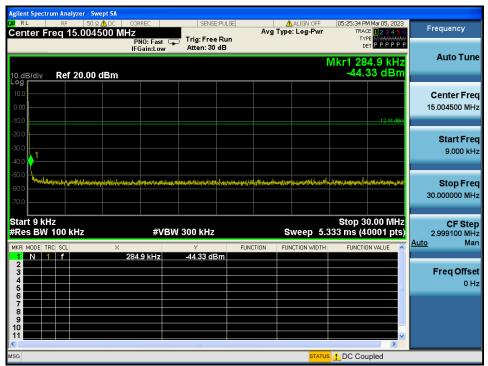


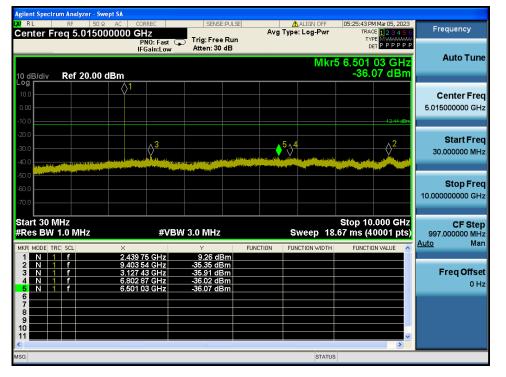
TM 2 Conducted Spurious Emissions 3 (Test Channel : Lowest)



TM 2 Reference (Test Channel : Middle)

TM 2 Conducted Spurious Emissions 1 (Test Channel : Middle)





TM 2 Conducted Spurious Emissions 2 (Test Channel : Middle)

TM 2 Conducted Spurious Emissions 3 (Test Channel : Middle)



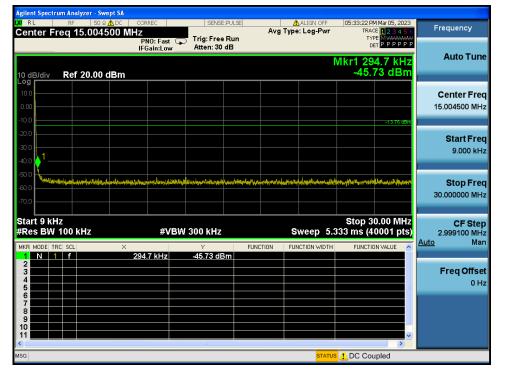


TM 2 Reference (Test Channel : Highest)

TM 2 High Band-edge (Test Channel : Highest)

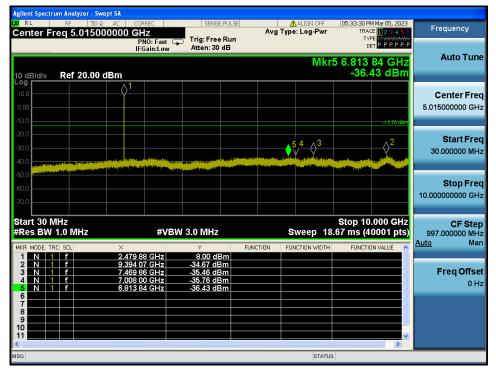






TM 2 Conducted Spurious Emissions 1 (Test Channel : Highest)

TM 2 Conducted Spurious Emissions 2 (Test Channel : Highest)





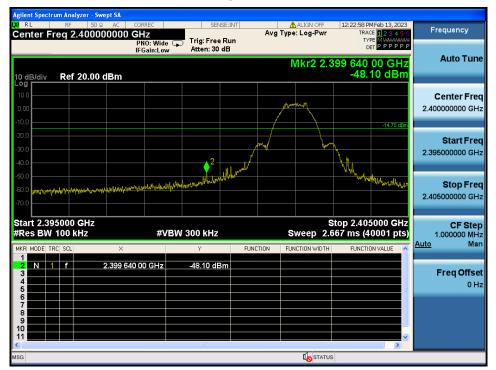


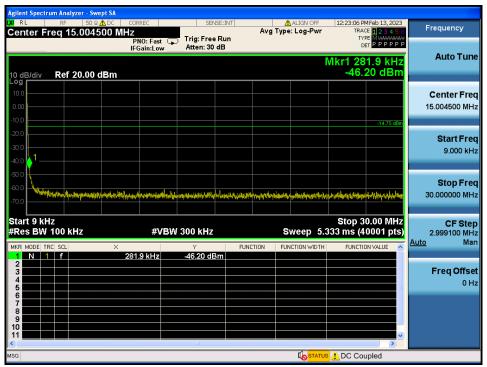
TM 2 Conducted Spurious Emissions 3 (Test Channel : Highest)



TM 3 Reference (Test Channel : Lowest)

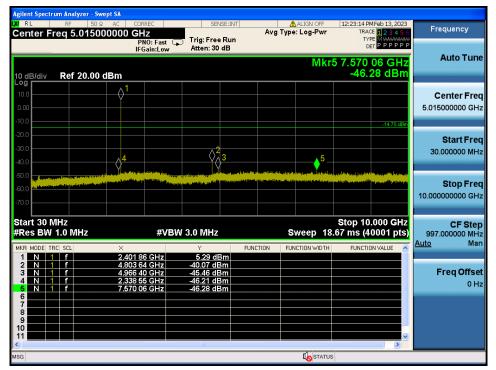
TM 3 Low Band-edge (Test Channel : Lowest)

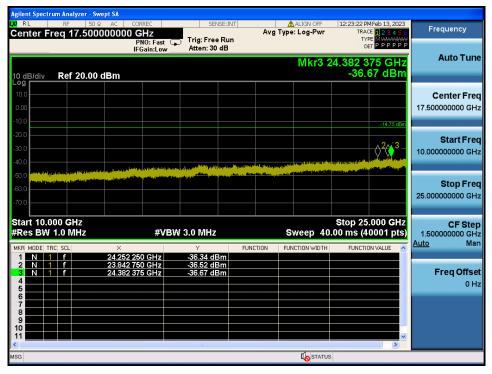




TM 3 Conducted Spurious Emissions 1 (Test Channel : Lowest)

TM 3 Conducted Spurious Emissions 2 (Test Channel : Lowest)



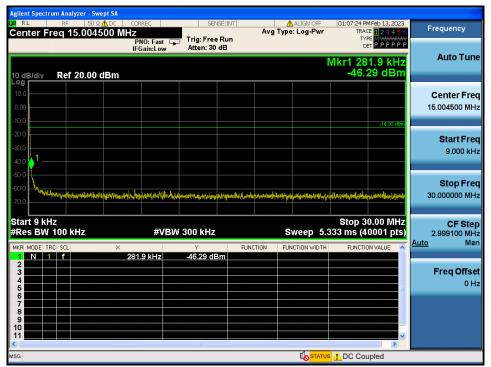


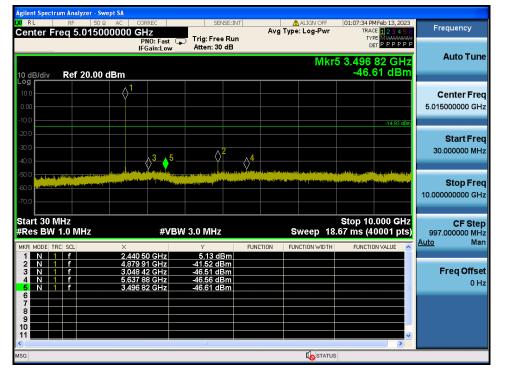
TM 3 Conducted Spurious Emissions 3 (Test Channel : Lowest)



TM 3 Reference (Test Channel : Middle)

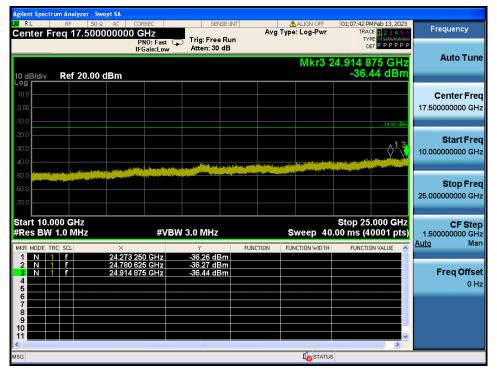
TM 3 Conducted Spurious Emissions 1 (Test Channel : Middle)





TM 3 Conducted Spurious Emissions 2 (Test Channel : Middle)

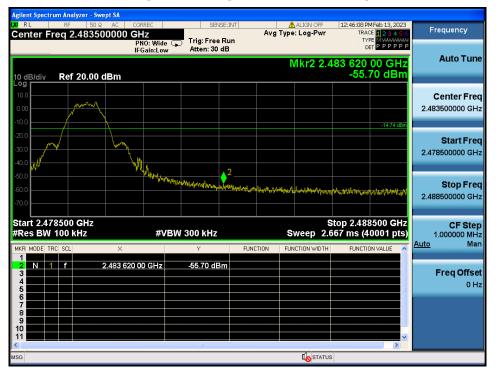
TM 3 Conducted Spurious Emissions 3 (Test Channel : Middle)

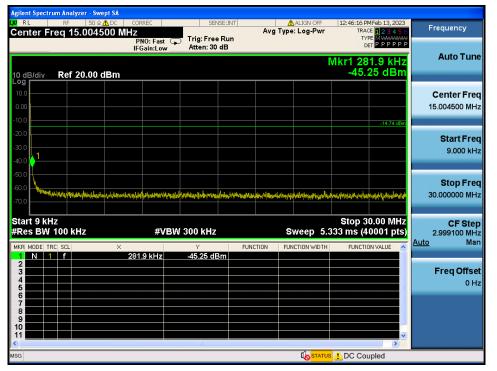




TM 3 Reference (Test Channel : Highest)

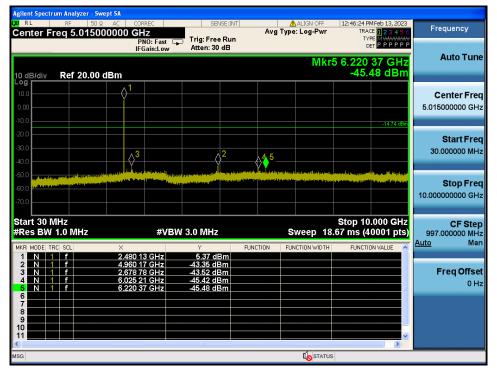
TM 3 High Band-edge (Test Channel : Highest)





TM 3 Conducted Spurious Emissions 1 (Test Channel : Highest)

TM 3 Conducted Spurious Emissions 2 (Test Channel : Highest)





Agilent Spectrum Analyzer - S					
Center Freg 17.50		SENSE:INT	ALIGN OFF Avg Type: Log-Pwr	12:46:32 PM Feb 13, 2023 TRACE 12 3 4 5 6	Frequency
	PNO: Fast C IFGain:Low	Trig: Free Run Atten: 30 dB		DET PPPPP	
			Mkr3 2	24.136 750 GHz	Auto Tune
10 dB/div Ref 20.00	dBm			-36.79 dBm	
10.0					Center Freq
0.00					17.500000000 GHz
-10.0				-14.74 dBm	
-20.0					Start Freq
-30.0				3,}	10.000000000 GHz
-40.0	ى بىرىم يې بىرى يې بىرى يې بىرى يې بىرى يې بىرى يې	and the second se	and the strange of the strange of the strange	tig de la completit en la completit en la factor de la completit en la completit en la completit en la completit La completit en la completit en	
-50.0 Perturbative from a data and a second		history and the second seco	Mainton and a second		Stop Freq
-60.0					25.000000000 GHz
-70.0					
Start 10.000 GHz				Stop 25.000 GHz	CF Step
#Res BW 1.0 MHz		W 3.0 MHz	-	.00 ms (40001 pts)	1.500000000 GHz Auto Man
MKR MODE TRC SCL	× 24.572 500 GHz	Y FU -36.70 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Hato</u> India
2 N 1 F 3 N 1 F	24.777 625 GHz 24.136 750 GHz	-36.75 dBm -36.79 dBm			Freq Offset
4	24.100 700 0112				0 Hz
6					
7 8					
9					
				~	
ISG					

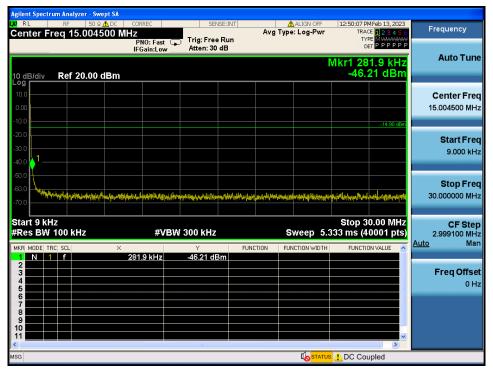
TM 3 Conducted Spurious Emissions 3 (Test Channel : Highest)



TM 4 Reference (Test Channel : Lowest)

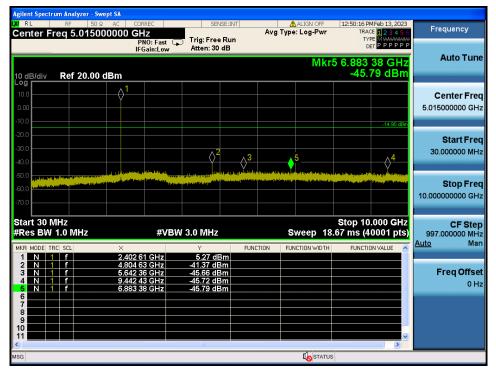
TM 4 Low Band-edge (Test Channel : Lowest)

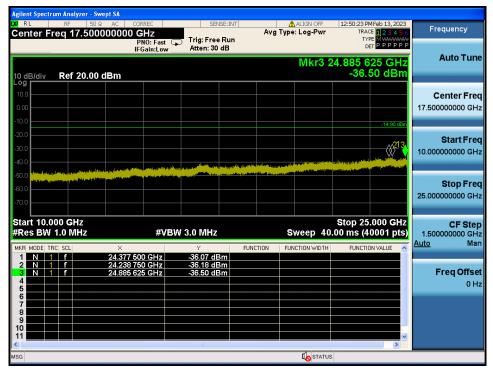




TM 4 Conducted Spurious Emissions 1 (Test Channel : Lowest)

TM 4 Conducted Spurious Emissions 2 (Test Channel : Lowest)



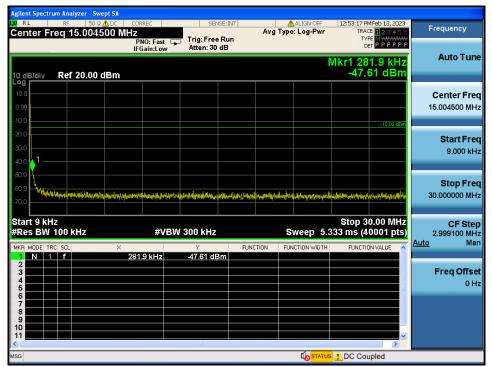


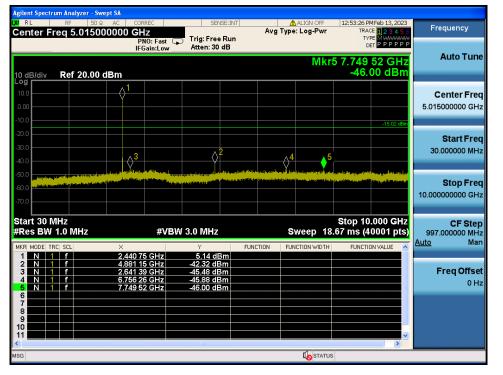
TM 4 Conducted Spurious Emissions 3 (Test Channel : Lowest)



TM 4 Reference (Test Channel : Middle)

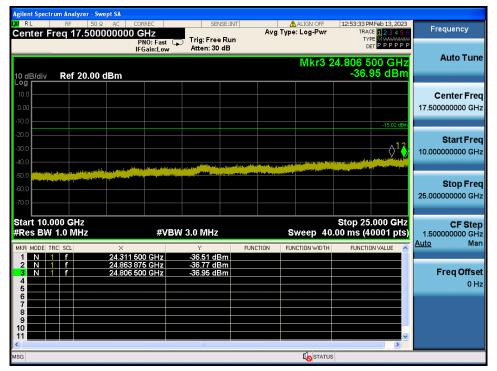
TM 4 Conducted Spurious Emissions 1 (Test Channel : Middle)





TM 4 Conducted Spurious Emissions 2 (Test Channel : Middle)

TM 4 Conducted Spurious Emissions 3 (Test Channel : Middle)

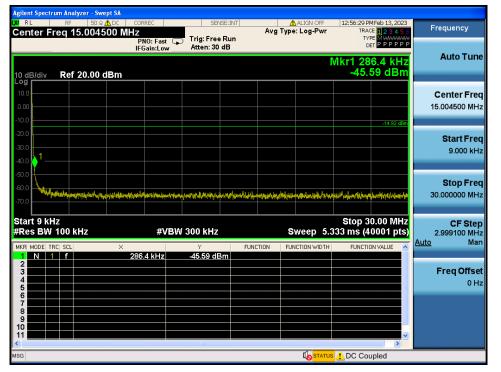




TM 4 Reference (Test Channel : Highest)

TM 4 High Band-edge (Test Channel : Highest)





TM 4 Conducted Spurious Emissions 1 (Test Channel : Highest)

TM 4 Conducted Spurious Emissions 2 (Test Channel : Highest)

