TEST REPORT

Report Number: 14523744-E7V2

Applicant : APPLE, INC.
1 APPLE PARK WAY
CUPERTINO, CA. 95014, U.S.A.

Model : A3101 (Full Test Model)
A3102, A3104 (Variant Model)

Brand : APPLE

FCC ID : BCG-E8436A (Full Test Model)
BCG-E8437A, BCG-E8438A (Variant Model)

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E

Date Of Issue:
AUGUST 12, 2023

Prepared by:
UL Verification Services Inc.
47173 Benicia Street
Fremont, CA 94538, U.S.A.
TEL: (510) 771-1000
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ACCREDITED
CERT #0751.05

REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	8/5/2023	Initial Issue	Thu Chan
V2	8/12/2023	Address TCB questions sections 6, 7, 9	Chin Pang

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TABLE OF CONTENTS

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE INC.
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A

EUT DESCRIPTION: SMARTPHONE

MODEL: A3101 (Parent Model, Full Test)
A3102, A3104 (Variant Models)

BRAND: APPLE

FCC ID: BCG-E8436A (Parent Model)
BCG-E8437A, BCG-E8438A (Variant Models)

SERIAL NUMBER: C07GV10005V00003PM (conducted unit)
C07GT40004U00006GU
WFV6QM1296(Radiated Unit)
CLX2X4640T (Radiated Unit)

SAMPLE RECEIPT DATE: 01/23/2023

DATE TESTED: 4/3/2023 - 8/11/2023

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 Part 15 Subpart E	Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.
Approved & Released For
UL Verification Services Inc. By: Prepared By:

Chin Pang
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2. TEST RESULT SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer.

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.3)
2. Cable loss (see section 6.3)

FCC Clause	Requirement	Result	Comment
See Comment	Duty Cycle	Reporting purposes only	Per ANSI C63.10, Section 12.2.
See Comment	26dB BW/99% OBW	Reporting purposes only	Per ANSI C63.10 Sections 6.9.2 and 6.9.3
15.407 (e)	6 dB BW	Complies	None.
15.407 (a) (1 & 3)	Output Power	Complies	None.
15.407 (a) (1 & 3)	PSD	Complies	None.
15.209, 15.205, 15.407 (b)	Radiated Emissions	Complies	None.
15.207	AC Mains Conducted Emissions	Complies	None.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:
- FCC CFR 47 Part 2
- FCC CFR 47 Part 15E
- FCC KDB 662911 D01 v02r01
- FCC KDB 789033 D02 v02r01
- FCC KDB 644545 D03 v01
- ANSI C63.10-2013
- KDB 414788 D01 Radiated Test Site v01r01

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4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☒	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☒	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☐	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

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5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U_{Lab}
Conducted Antenna Port Emission Measurement	1.940 dB
Occupied Bandwidth	1.22 %
Power Spectral Density	2.466 dB
Time Domain Measurement using SA	3.39 %
RF Power Measurement Direct Method using Power Meter	0.450 dB (Peak), 1.300dB (Ave)
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

Uncertainty figures are valid to a confidence level of 95%.

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6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, UMTS, LTE, 5GNR1, IEEE 802.11a/b/g/n/ac/ax, Bluetooth (BT), Ultra-Wideband (UWB), GPS, NFC, NB UNII, 802.15.4, 802.15.4ab-NB and MSS technologies. The rechargeable battery is not user accessible.

The Model and FCC ID covered by this report includes:

Full Test Model: A3101, FCC ID: BCG-E8436A

Variant Models: A3102; FCC ID: BCG-E8437A
A3104; FCC ID: BCG-E8438A

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

Frequency Range (MHz)	Mode	Antenna	Configuration	Output Power (dBm)	Output Power (mW)
5162 - 5245 (UNII-1)	BDR	ANT 6	High Power	10.00	10.00
			Low Power	7.50	5.62
		ANT 5	High Power	10.00	10.00
			Low Power	4.50	2.82
		BF, ANT 6 + ANT 5	High Power	10.01	10.02
			Low Power	8.92	7.80
	HDR 4	ANT 6	High Power	12.00	15.85
			Low Power	0.99	1.26
		ANT 5	High Power	12.00	15.85
			Low Power	-2.02	0.63
		BF, ANT 6 + ANT 5	High Power	12.01	15.89
			Low Power	2.76	1.89
	HDR 8	ANT 6	High Power	13.96	24.89
			Low Power	0.99	1.26
		ANT 5	High Power	13.99	25.06
			Low Power	-2.00	0.63
		BF, ANT 6 + ANT 5	High Power	14.01	25.18
			Low Power	2.75	1.88

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Frequency Range (MHz)	Mode	Antenna	Configuration	Output Power (dBm)	Output Power (mW)
5733 - 5844 (UNII-3)	BDR	ANT 6	High Power	20	100.00
			Low Power	8	6.31
		ANT 5	High Power	19.50	89.13
			Low Power	5.5	3.55
		BF, ANT 6 + ANT 5	High Power	22.74	187.93
			Low Power	9.93	9.84
	HDR 4	ANT 6	High Power	14.5	28.18
			Low Power	1.5	1.41
		ANT 5	High Power	14.50	28.18
			Low Power	-1.1	0.78
		BF, ANT 6 + ANT 5	High Power	17.51	56.36
			Low Power	3.37	2.17
	HDR 8	ANT 6	High Power	14.5	28.18
			Low Power	1.5	1.41
		ANT 5	High Power	14.50	28.18
			Low Power	-1.11	0.77
		BF, ANT 6 + ANT 5	High Power	17.46	55.72
			Low Power	3.39	2.18

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6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an IFA antenna, with a maximum gain as follows.:

Frequency Range (GHz)	ANT 6 (dBi)	ANT 5 (dBi)
5162-5245	-3.4	-6.0
5733-5844	-5.2	-3.6

The cables loss of 2.7dB were used for RF antenna port tests that had been offset to the test equipment during testing.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was WiFi FW Version: 23_10_663.

6.5. WORST-CASE CONFIGURATION AND MODE

The EUT was investigated in three orthogonal orientations X, Y and Z on ANT 6, ANT 5 and 2TX, it was determined that Y (Landscape) was the worst-case orientation for both ANT 6 and ANT 5. And Z (Portrait) orientation for 2TX.

2TX Beamforming modes was used to perform on radiated harmonic spurious final test to cover all SISO modes. For testing purposes, radiated harmonics spurious below 1GHz, 1-18GHz L/M/H channels, 18-40GHz, and power line conducted emissions were performed with the EUT set at the 2TX Beamforming mode with power setting equal or higher than IC conducted SISO modes as worst-case scenario.

Below 1GHz tests were performed with EUT connected to AC power adapter as the worst case; and for above 1GHz, the worst-case configuration reported was tested with EUT only. For AC line conducted emission, test was investigated with AC power adapter and with laptop. There were no emissions found below 30MHz within 20dB of the limit.

For simultaneous transmission of multiple channels in the 2.4GHz BT and NB UNII 5GHz bands, no noticeable emission was found.

NOTE: For radiated data, ANT0=ANT6, ANT1=ANT 5.

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6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID/ DoC**
Laptop	Apple	Macbook Pro	C02VD7SAHV22	BCGA1708
Laptop AC/DC adapter	Liteon Technology	A1424	NSW25679	DoC
EUT AC/DC adapter	Apple	A1720	C3D8417A7R93KVPA8	DoC
Conducted Switch Box	UL	n/a	208281	N/A
10dB Fixed Attenuator, 2 Watts Up to 26.5 GHz	Pasternack Enterprises	PE7024-10	236358	N/A

I/O CABLES (RF CONDUCTED TEST)						
Cable No.	**Port**	**# of Identical Ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
1	SMA	1	SMA	Shielded	0.75	To spectrum Analyzer
2	Antenna	2	SMA	Un-shielded	0.2	To Conducted Switch Box
3	USB-C	1	USB-C	Shielded	1.0	N/A
4	AC	1	AC	Un-shielded	2	N/A

I/O CABLES (RF RADIATED AND AC LINE CONDUCTED TEST)						
Cable No.	**Port**	**# of Identical Ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
1	AC	1	AC	Un-shielded	2	N/A
2	USB	1	USB	Shielded	1	N/A

TEST SETUP

The EUT setup is shown as below. Test software exercised the radio card.

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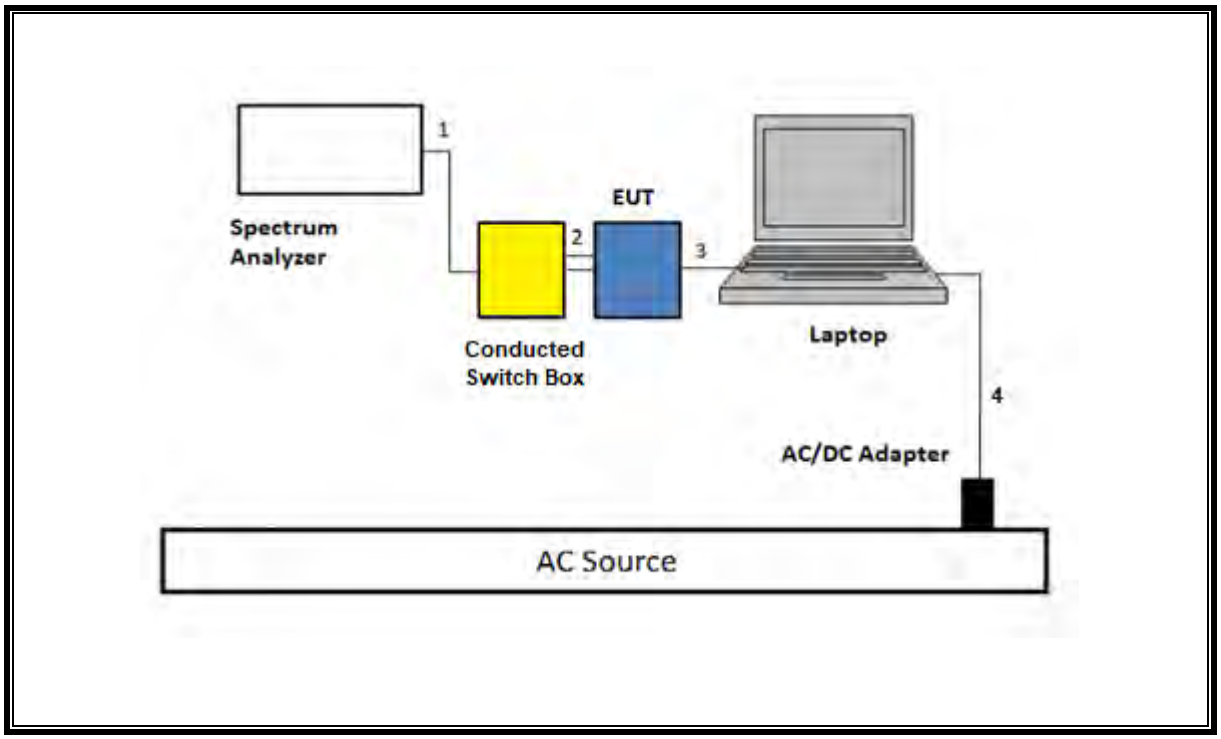
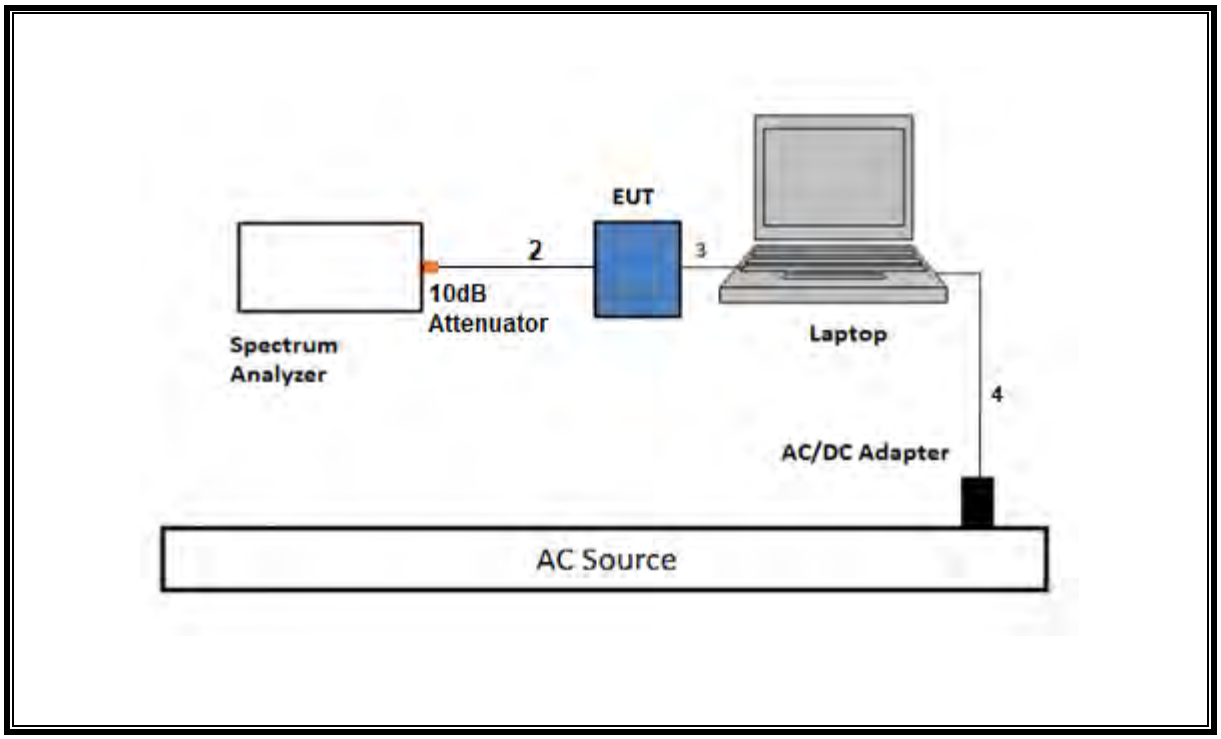
SETUP DIAGRAM FOR CONDUCTED TESTS





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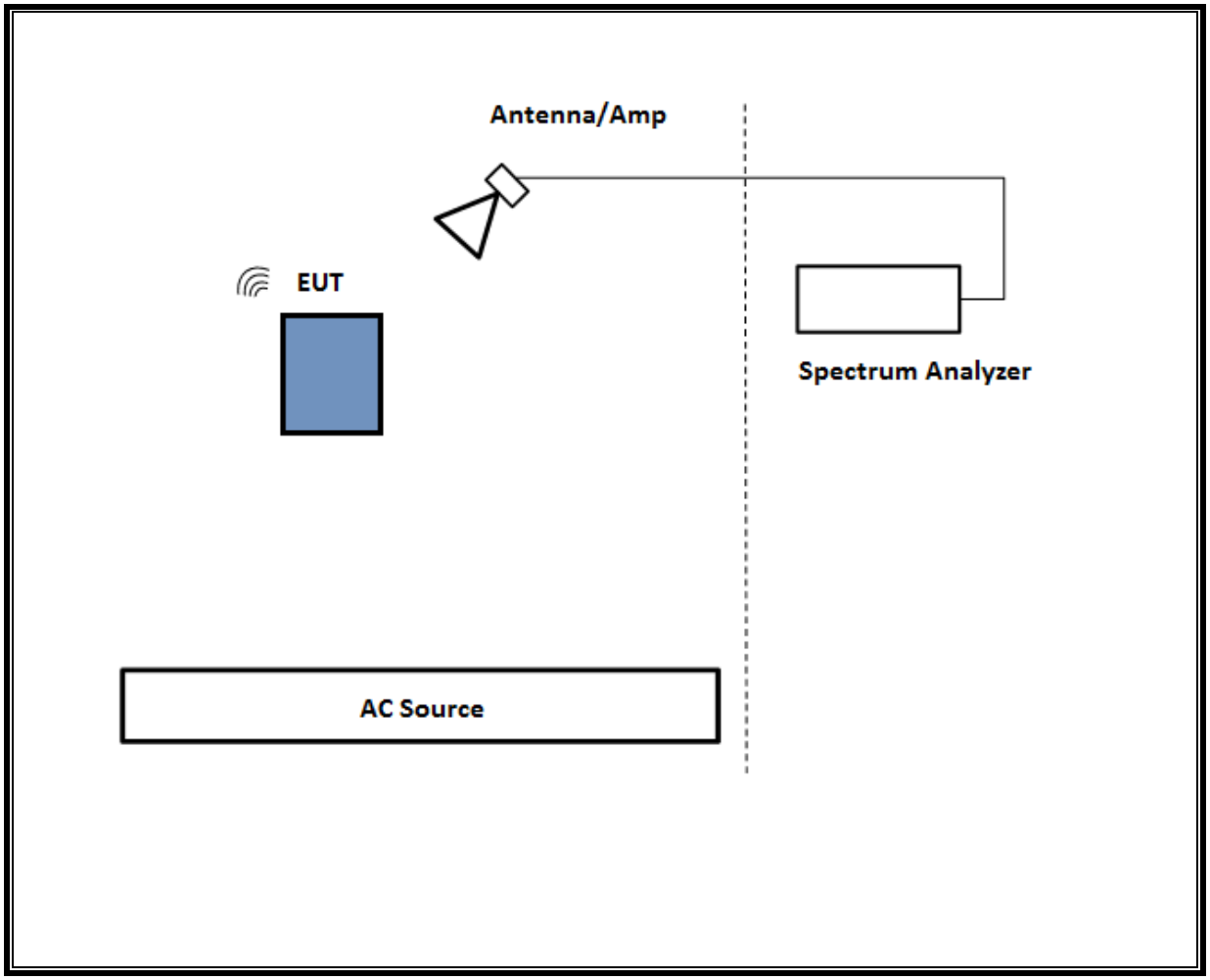
SETUP DIAGRAM FOR RADIATED TESTS Above 1 GHz



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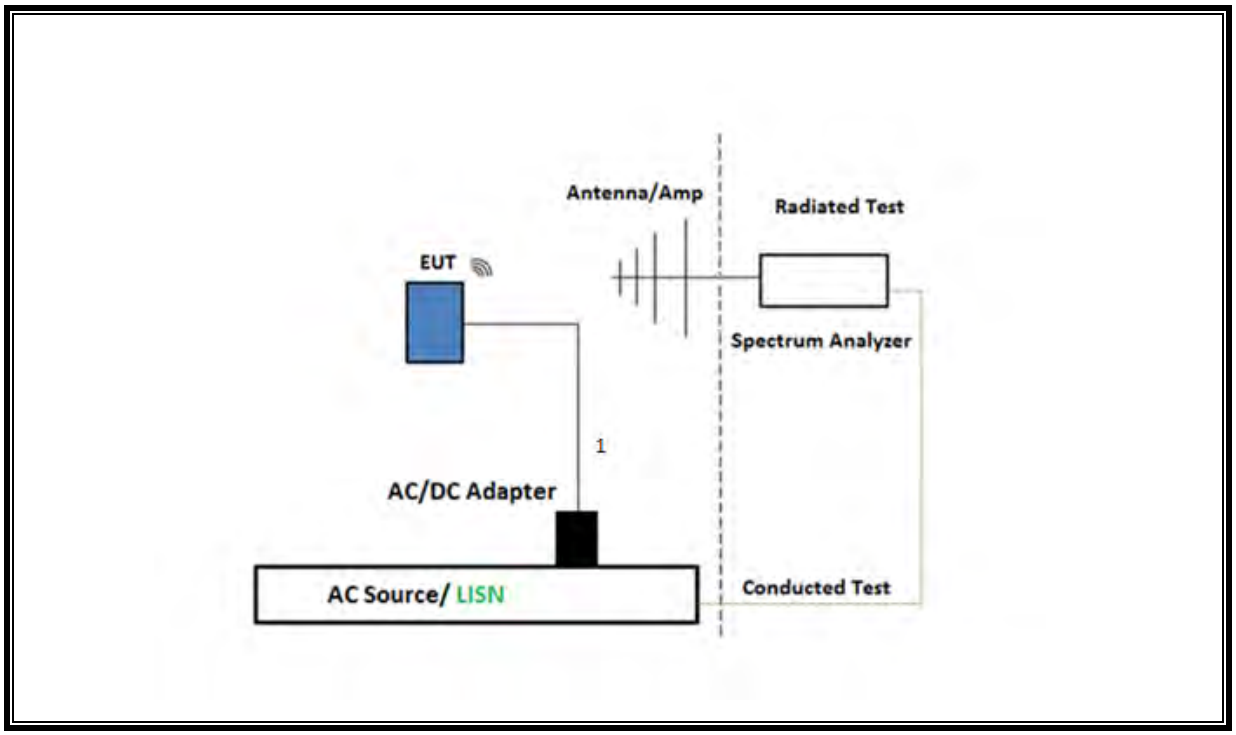
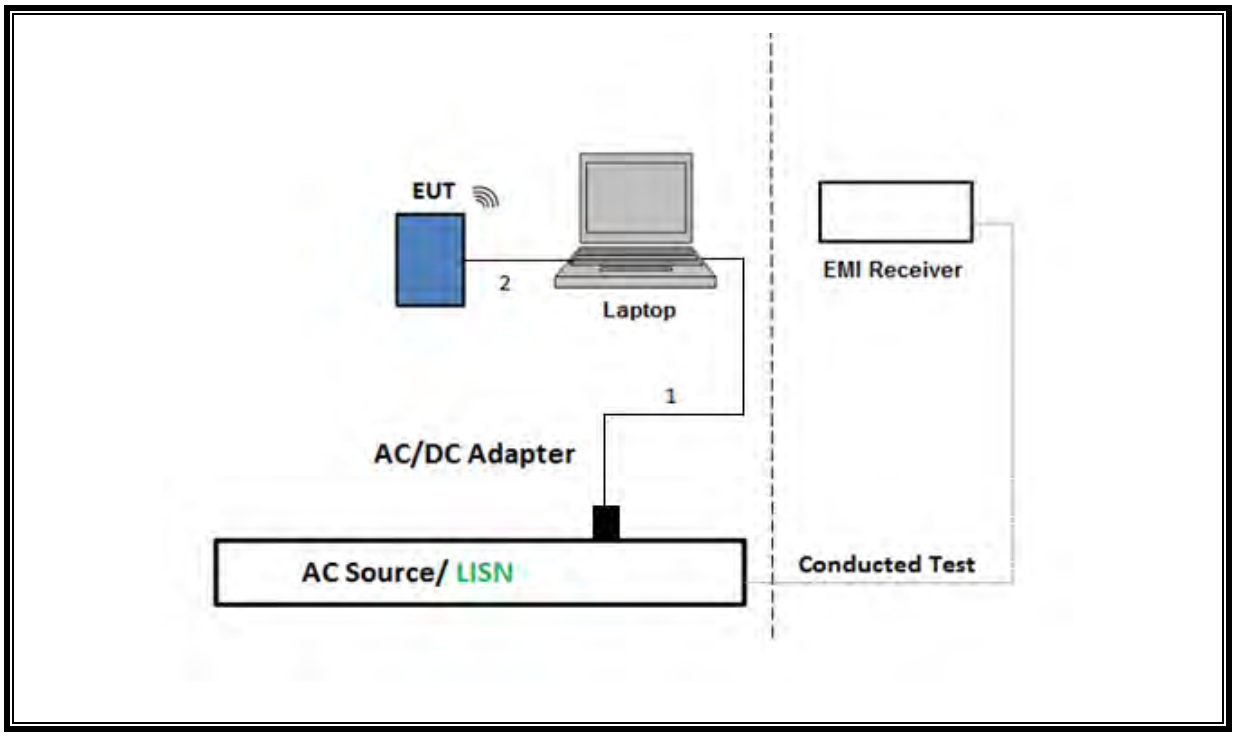
SETUP DIAGRAM FOR Below 1GHz and AC LINE CONDUCTED TEST



TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION



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7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST					
Description	**Manufacturer**	**Model**	**ID Num**	**Cal Due**	**Last Cal**
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	84797	09/20/2023	09/20/2022
EMI Receiver	Rohde & Schwarz	ESW44	201497	02/29/2024	02/29/2023
RF Filter Box, 1-18GHz	UL-FR1	n/a	171389	05/31/2024	05/31/2023
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp	JB3	80714	10/06/2023	10/06/2022
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	204041	08/24/2023	08/24/2022
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	200897	03/31/2024	03/31/2023
EMI Receiver	Rohde & Schwarz	ESW44	201498	02/29/2024	02/29/2023
RF Filter Box, 1-18GHz, 12 Port.	UL-FR1	Frankenstein	231874	04/19/2024	04/19/2023
*Antenna Horn, 18 to 26.5GHz	ARA	MWH-1826/B	172353	06/01/2023	06/01/2022
RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	AMPLICAL	AMP18G26.5-60	171583	02/29/2024	02/29/2023
EMI Receiver	Rohde & Schwarz	ESW44	201499	02/29/2024	02/29/2023
EMI Receiver	Rohde & Schwarz	ESW44	201500	02/29/2024	02/29/2023
Power Meter, P-series single channel	Keysight	N1912A	90630	01/31/2024	01/31/2023
Power Sensor	Keysight	N1921A	90391	01/31/2024	01/31/2023
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	200784	01/31/2024	01/31/2023
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	220095	01/31/2024	01/31/2023
Antenna, Horn 1-18GHz	ETS Lindgren	3117	226673	01/09/2024	01/09/2023
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	226781	04/30/2024	04/30/2023
EMI Receiver	Rohde & Schwarz	ESW44	169935	02/29/2024	02/29/2023
Antenna, Horn 1-18GHz	ETS Lindgren	3117	222740	08/31/2023	08/31/2023
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	02/29/2024	02/29/2023
RF Filter Box, 1-18GHz, 12 Port.	UL-FR1	Frankenstein	217255	08/23/2023	08/23/2022
*Antenna, Passive Loop 30Hz to 1MHz	Electro-Metrics	EM-6871	170013	07/28/2023	07/28/2022
*Antenna, Passive Loop 100KHz to 30MHz	ETS-Lindgren	EM-6872	170015	07/28/2023	07/28/2022
*Antenna, Horn 1-18GHz	ETS-Lindgren	3117	80404	08/08/2023	08/08/2022
EMI Receiver	Rohde & Schwarz	ESW44	230548	02/29/2024	02/29/2023
RF Filter Box, 1-18GHz, 12 Port.	UL-FR1	Frankenstein	216812	09/17/2023	09/17/2022
10dB Fixed Attenuator, 2 Watts Up to 26.5 GHz	Pasternack Enterprises	PE7024-10	236358	Verified/Characterized before use	
10dB Fixed Attenuator, 2 Watts Up to 26.5 GHz	Pasternack Enterprises	PE7024-10	236355	Verified/Characterized before use	
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90756	01/31/2024	01/31/2023
*Conducted Switch Box	N/A	CSB	221008	06/21/2023	06/21/2022
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	85214	02/28/2024	02/28/2023
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A-544	87738	02/28/2024	02/28/2023

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TEST EQUIPMENT LIST					
Description	**Manufacturer**	**Model**	**ID Num**	**Cal Due**	**Last CAL**
AMP26G40-65	AMPLICAL	AMP26G40-65	172346	02/29/2024	02/29/2023
*Antenna, Horn 26.5 to 40GHz	ARA	MWH-2640/B	81105	07/11/2023	07/11/2022
EMI Receiver	Rohde & Schwarz	ESW44	201502	02/29/2024	02/29/2023
*Antenna, Horn 1-18GHz	ETS-Lindgren	3117	80430	08/08/2023	08/08/2022
RF Filter Box 1-18GHz	UL-FR13528	NA	173528	12/22/2023	12/22/2022
EMI Test Receiver	Rohde & Schwarz	ESW44	169937	02/29/2024	02/29/2023
Antenna, Horn 1-18GHz	ETS Lindgren	3117	230299	01/12/2024	01/12/2023
EMI Test Receiver	Rohde & Schwarz	ESW44	PRE0179372	02/29/2024	02/29/2023
RF Filter Box 1-18GHz	UL-FR1	SAC 12 port rf box	217521	10/09/2023	10/09/2022
Antenna, Horn 1-18GHz	ETS Lindgren	3117	226672	01/09/2024	01/09/2023
EMI Receiver	Rohde & Schwarz	ESW44	170063	02/29/2024	02/29/2023
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	225079	10/31/2023	10/31/2022

AC Line Conducted					
Description	**Manufacturer**	**Model**	**ID Num**	**Cal Due**	**Last Cal**
EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESR	93091	02/29/2024	02/29/2023
LISN for Conducted Emissions CISPR-16	FISCHER CUSTOM COMMUNICATIONS	FCC-LISN-50/250-25-2-01-480V	175764	01/31/2024	01/31/2023
*Transient Limiter	TE	TBFL1	207996	07/15/2023	07/15/2022
UL AUTOMATION SOFTWARE					
Radiated Software	UL	UL EMC	Ver 9.5, May 1 , 2023		
Conducted Software	UL	UL EMC	2020.8.16		
AC Line Conducted Software	UL	UL EMC	Ver 9.5, Mar 3, 2023		

*Testing was completed before equipment calibration date

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8. MEASUREMENT METHODS

On Time and Duty Cycle: KDB 789033 D02 v02r01, Section B.

6 dB Emission BW: KDB 789033 D02 v02r01, Section C.2

26 dB Emission BW: KDB 789033 D02 v02r01, Section C.1

99% Occupied BW: KDB 789033 D02 v02r01, Section D.

Conducted Output Power: KDB 789033 D02 v02r01

Power Spectral Density: KDB 789033 D02 v02r01, Section F

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, and G.5.

AC Power Line Conducted Emissions: ANSI C63.10-2013, Section 6.2.

Radiated Spurious Emissions Below 30MHz: ANSI C63.10-2013 Section 6.4

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9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

PROCEDURE

ANSI C63.10, Section 12.2: Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Mode	Frequency (MHz)	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
UNII-1, BDR	5203	0.04	0.04	1.000	100.0%	0.00
UNII-1, HDR4	5203	0.04	0.04	1.000	100.0%	0.00
UNII-1, HDR8	5203	0.04	0.04	1.000	100.0%	0.00
UNII-3, BDR	5788	0.04	0.04	1.000	100.0%	0.00
UNII-3, HDR4	5788	0.04	0.04	1.000	100.0%	0.00
UNII-3, HDR8	5788	0.04	0.04	1.000	100.0%	0.00

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DUTY CYCLE PLOTS

UNII-1, BDR

UNII-1, HDR4

UNII-1, HDR8

UNII-3, BDR

UNII-3, HDR4

UNII-3, HDR8

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9.2. 26 dB AND 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The RBW is set to ≥ 1% of the 20 dB bandwidth. The VBW is set to ≥ 3xRBW. The sweep time is coupled.

RESULTS

Only High Power modes result is reported, it covers all Low Power modes. Only Mid channel plot is reported to show setting parameter complies with testing method/procedure.

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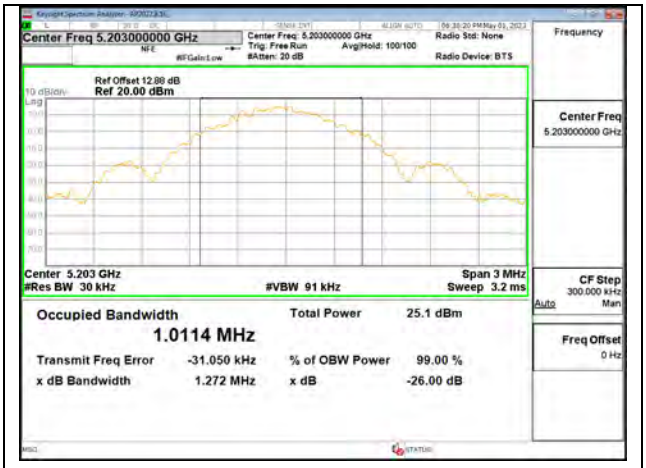
9.2.1. HIGH POWER BDR, UNII-1

ANT 6

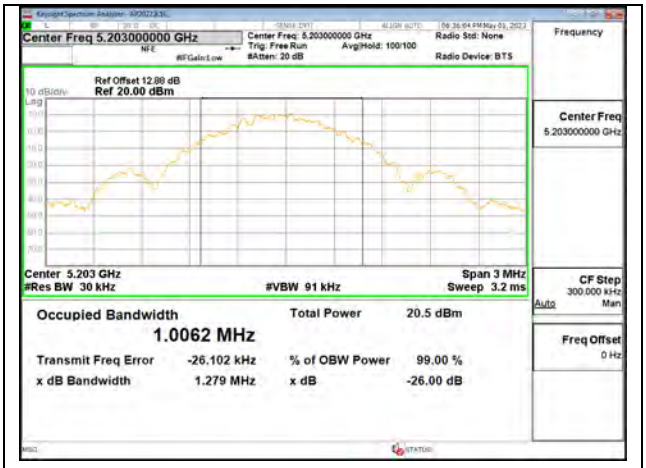
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5162	1.2790	1.0101
Mid	5203	1.2720	1.0114
High	5245	1.2790	1.0123



MID CHANNEL

ANT 5

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5162	1.2790	1.0051
Mid	5203	1.2790	1.0062
High	5245	1.2810	1.0118



MID CHANNEL

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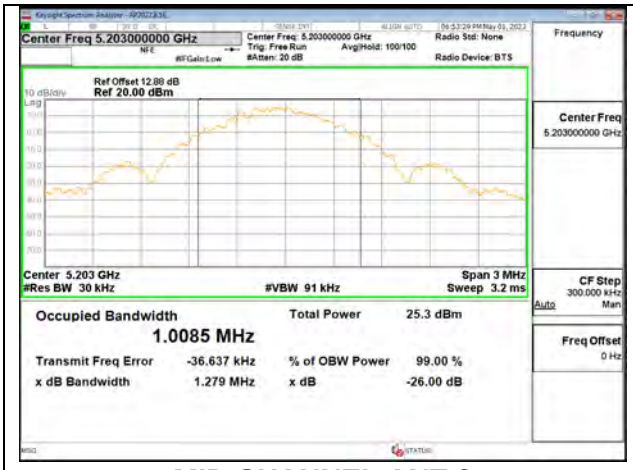
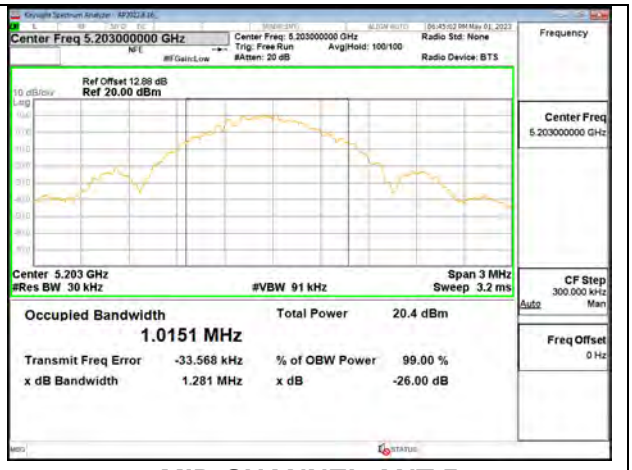
9.2.2. HIGH POWER BDR TXBF UNII-1

Channel	Frequency (MHz)	26dB Bandwidth ANT 6 (MHz)	26dB Bandwidth ANT 5 (MHz)	99% Bandwidth ANT 6 (MHz)	99% Bandwidth ANT 5 (MHz)
Low	5162	1.2790	1.2790	1.0127	1.0089
Mid	5203	1.2790	1.2810	1.0085	1.0151
High	5245	1.2790	1.2800	1.0105	1.0139



MID CHANNEL ANT 6

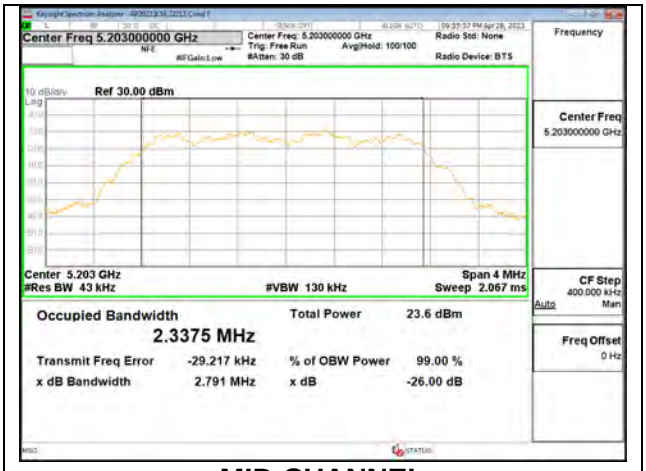


MID CHANNEL ANT 5

9.2.3. HIGH POWER HDR4, UNII-1

ANT 6

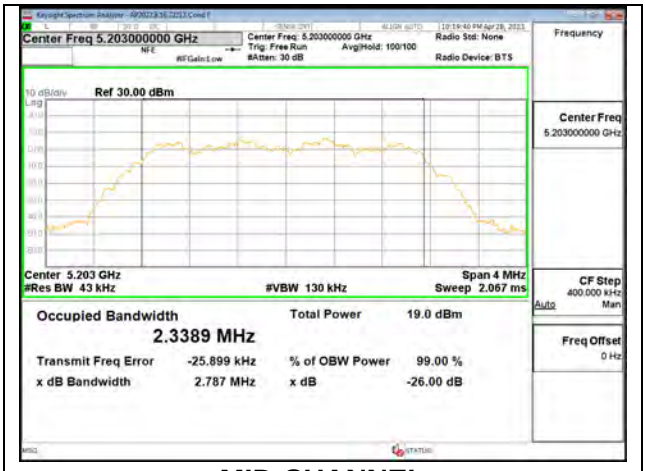
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5162	2.7800	2.3390
Mid	5203	2.7910	2.3375
High	5245	2.7840	2.3342



MID CHANNEL

ANT 5

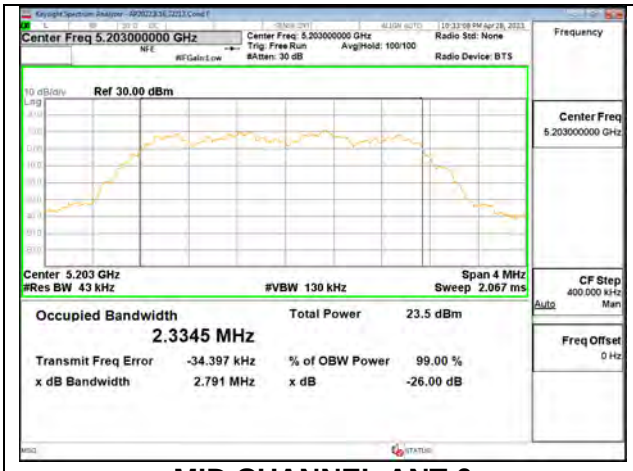
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5162	2.7880	2.3375
Mid	5203	2.7870	2.3389
High	5245	2.7960	2.3358



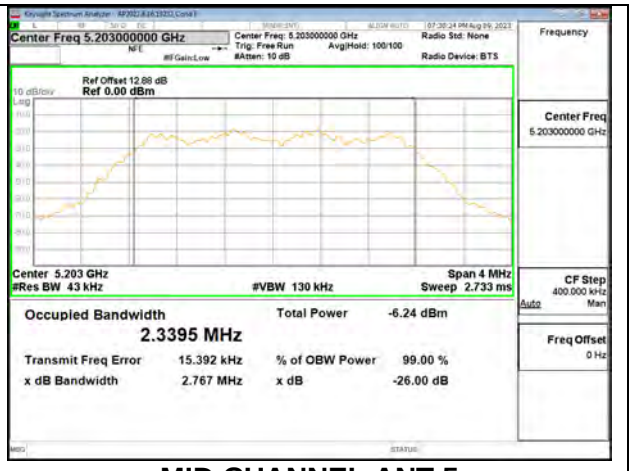
MID CHANNEL

9.2.4. HIGH POWER HDR4 TXBF UNII-1

Channel	Frequency (MHz)	26dB Bandwidth ANT 6 (MHz)	26dB Bandwidth ANT 5 (MHz)	99% Bandwidth ANT 6 (MHz)	99% Bandwidth ANT 5 (MHz)
Low	5162	2.7880	2.7900	2.3350	2.3376
Mid	5203	2.7910	2.7670	2.3345	2.3395
High	5245	2.7890	2.7900	2.3366	2.3341



MID CHANNEL ANT 6



MID CHANNEL ANT 5

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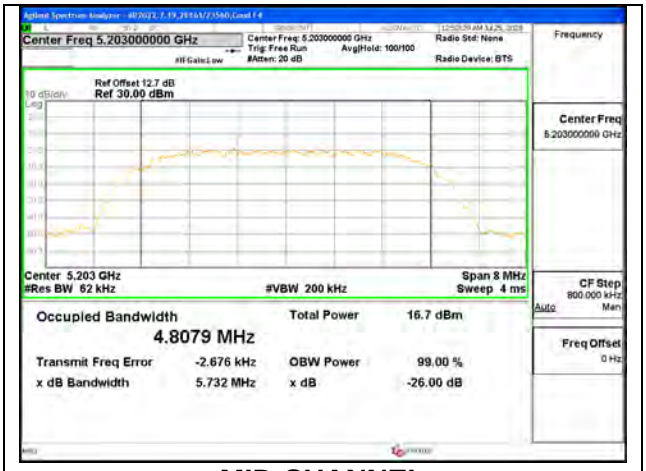
9.2.5. HIGH POWER HDR8, UNII-1

ANT 6

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5162	5.574	4.8145
Mid	5203	5.732	4.8079
High	5245	5.740	4.8123



MID CHANNEL

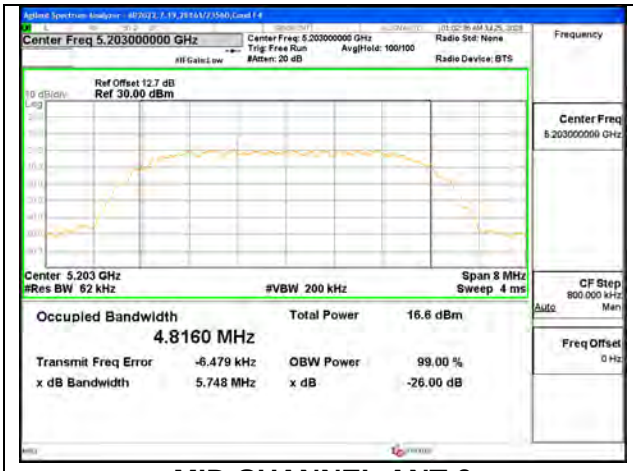
ANT 5

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5162	5.740	4.8126
Mid	5203	5.750	4.8123
High	5245	5.755	4.8255

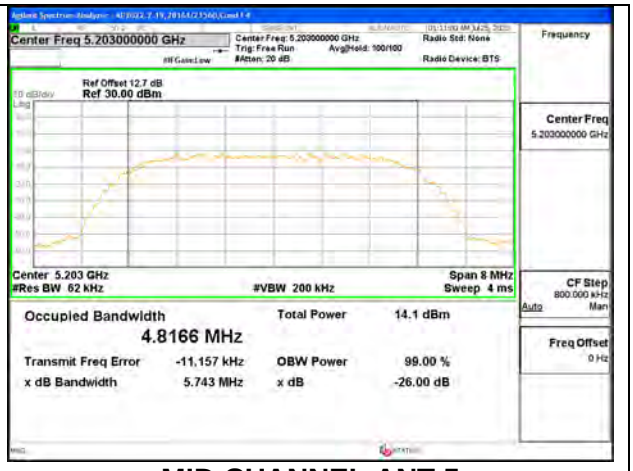
MID CHANNEL

9.2.6. HIGH POWER HDR8 TXBF UNII-1

Channel	Frequency (MHz)	26dB Bandwidth ANT 6 (MHz)	26dB Bandwidth ANT 5 (MHz)	99% Bandwidth ANT 6 (MHz)	99% Bandwidth ANT 5 (MHz)
Low	5162	5.754	5.755	4.8108	4.8171
Mid	5203	5.748	5.743	4.8160	4.8166
High	5245	5.741	5.759	4.8023	4.8301



MID CHANNEL ANT 6



MID CHANNEL ANT 5

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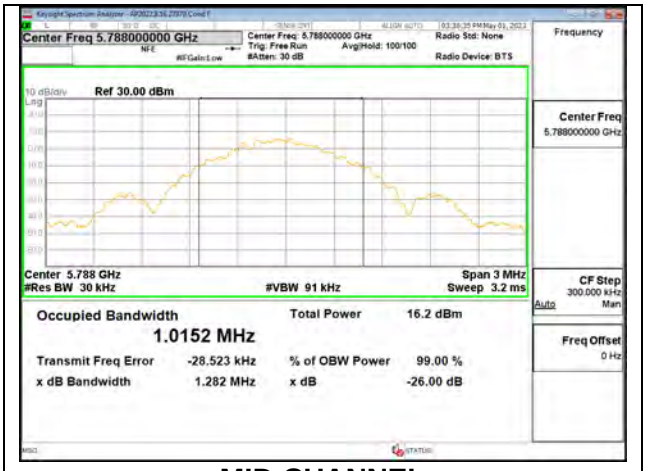
9.2.7. HIGH POWER BDR, UNII-3

ANT 6

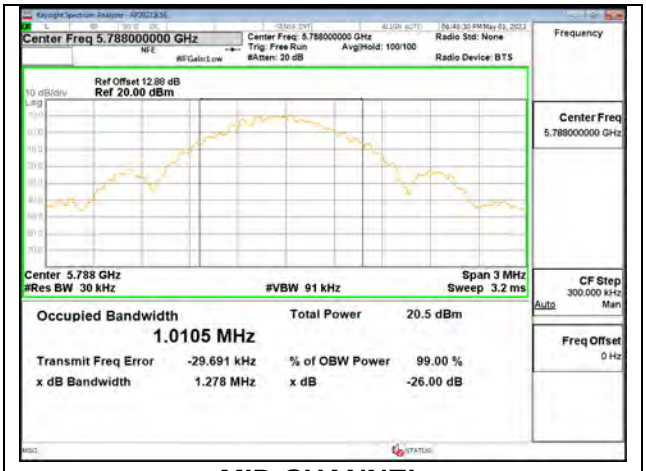
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5733	1.2830	1.0109
Mid	5788	1.2820	1.0152
High	5844	1.2820	1.0156



MID CHANNEL

ANT 5

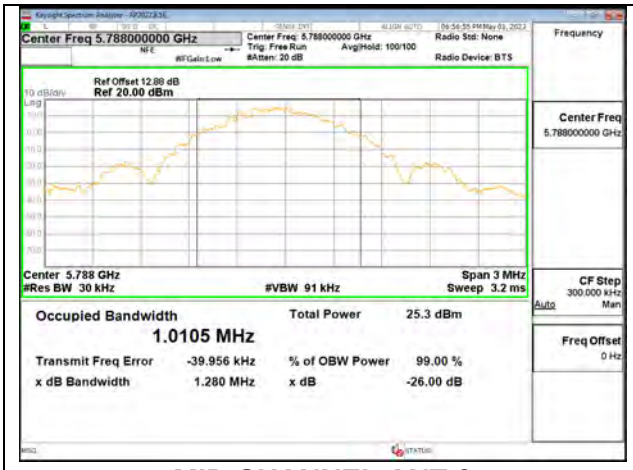
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5733	1.2810	1.0068
Mid	5788	1.2780	1.0105
High	5844	1.2800	1.0100



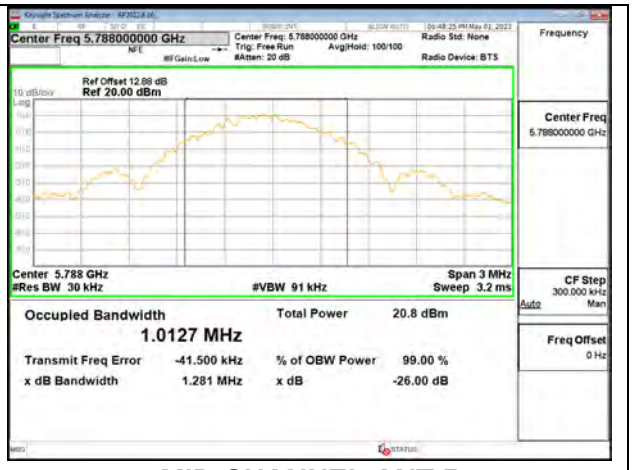
MID CHANNEL

9.2.8. HIGH POWER BDR TXBF UNII-3

Channel	Frequency (MHz)	26dB Bandwidth ANT 6 (MHz)	26dB Bandwidth ANT 5 (MHz)	99% Bandwidth ANT 6 (MHz)	99% Bandwidth ANT 5 (MHz)
Low	5733	1.2810	1.2800	1.0121	1.0078
Mid	5788	1.2800	1.2810	1.0105	1.0127
High	5844	1.2780	1.2820	1.0098	1.0118



MID CHANNEL ANT 6

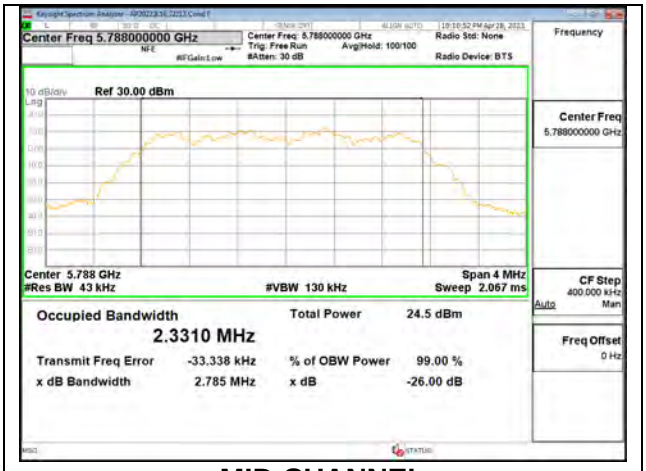


MID CHANNEL ANT 5

9.2.9. HIGH POWER HDR4, UNII-3

ANT 6

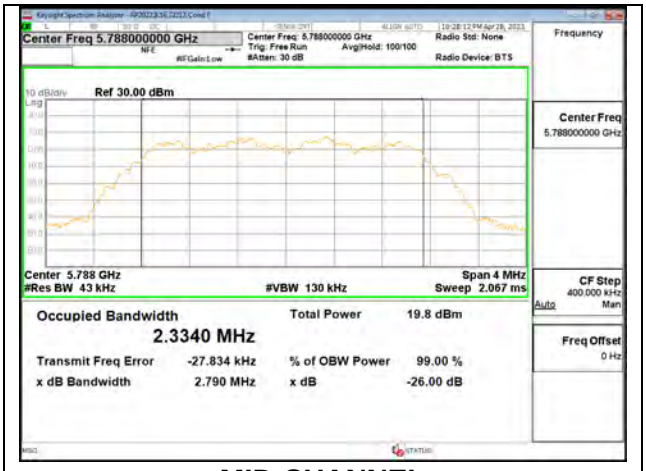
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5733	2.7860	2.3352
Mid	5788	2.7850	2.3310
High	5844	2.8030	2.3382



MID CHANNEL

ANT 5

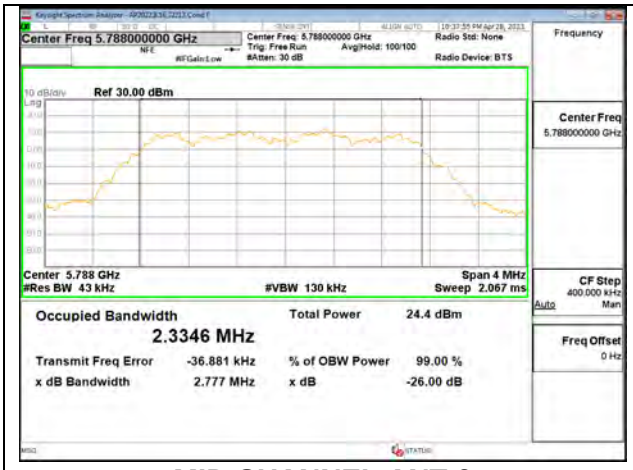
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5733	2.7900	2.3382
Mid	5788	2.7900	2.3340
High	5844	2.7820	2.3386



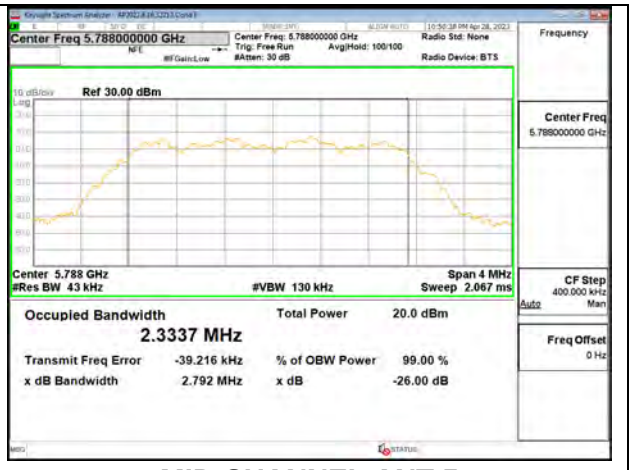
MID CHANNEL

9.2.10. HIGH POWER HDR4 TXBF UNII-3

Channel	Frequency (MHz)	26dB Bandwidth ANT 6 (MHz)	26dB Bandwidth ANT 5 (MHz)	99% Bandwidth ANT 6 (MHz)	99% Bandwidth ANT 5 (MHz)
Low	5733	2.7870	2.7930	2.3350	2.3382
Mid	5788	2.7770	2.7920	2.3346	2.3337
High	5844	2.7820	2.7940	2.3370	2.3396



MID CHANNEL ANT 6

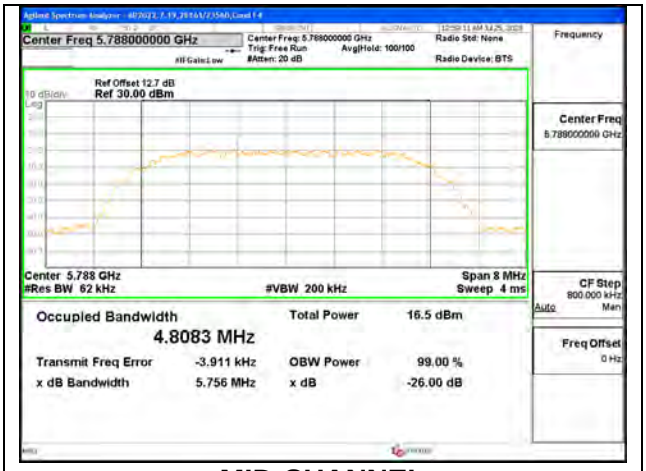


MID CHANNEL ANT 5

9.2.11. HIGH POWER HDR8, UNII-3

ANT 6

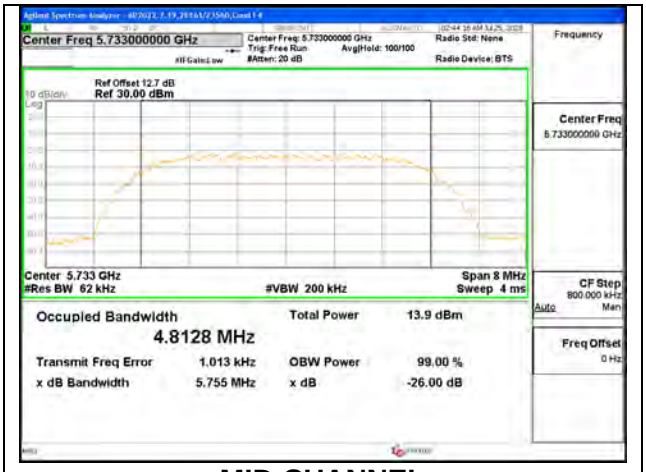
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5733	5.7500	4.8079
Mid	5788	5.7560	4.8083
High	5844	5.7430	4.7937



MID CHANNEL

ANT 5

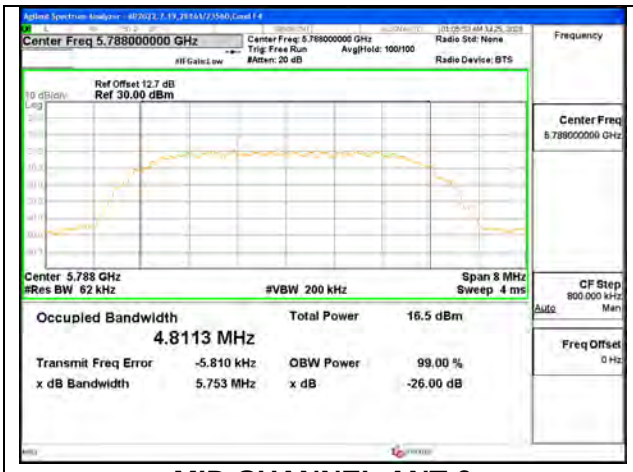
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5733	5.7620	4.8211
Mid	5788	5.7550	4.8128
High	5844	5.7470	4.8204



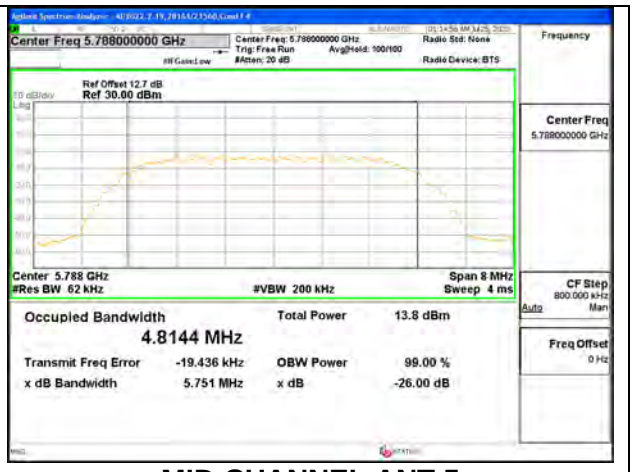
MID CHANNEL

9.2.12. HIGH POWER HDR8 TXBF UNII-3

Channel	Frequency (MHz)	26dB Bandwidth ANT 6 (MHz)	26dB Bandwidth ANT 5 (MHz)	99% Bandwidth ANT 6 (MHz)	99% Bandwidth ANT 5 (MHz)
Low	5733	5.7490	5.7620	4.8112	4.8211
Mid	5788	5.7530	5.7510	4.8113	4.8144
High	5844	5.7370	5.7560	4.8095	4.8094



MID CHANNEL ANT 6



MID CHANNEL ANT 5

9.3. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Only High Power modes result is reported, it covers all Low Power modes. Only Mid channel plot is reported to show setting parameter complies with testing method/procedure.

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9.3.1. HIGH OUTPUT BDR MODE IN THE UNII-3 BAND

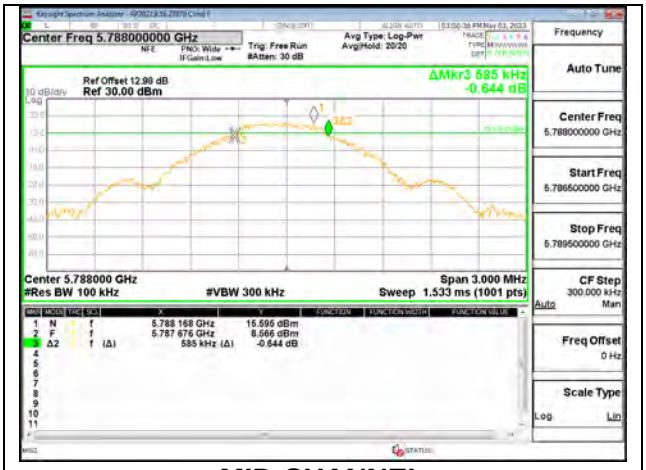
1TX Antenna 6

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5733	0.585	0.5
Mid	5788	0.594	0.5
High	5844	0.600	0.5

MID CHANNEL

1TX Antenna 5

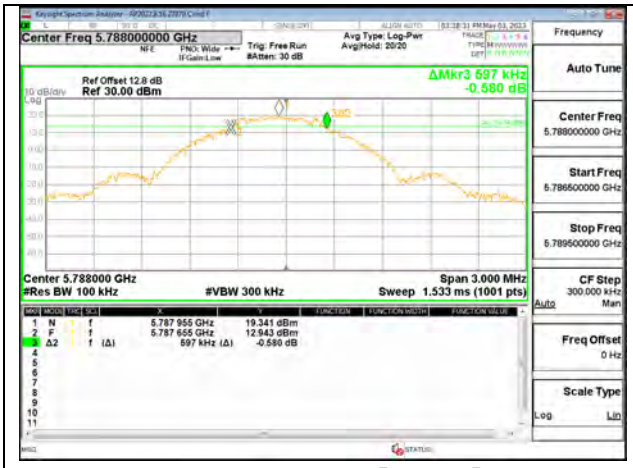
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5733	0.594	0.5
Mid	5788	0.585	0.5
High	5844	0.585	0.5



MID CHANNEL

2TX Antenna 6 + Antenna 5 TXBF MODE

Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5733	0.579	0.606	0.5
Mid	5788	0.597	0.606	0.5
High	5844	0.582	0.615	0.5



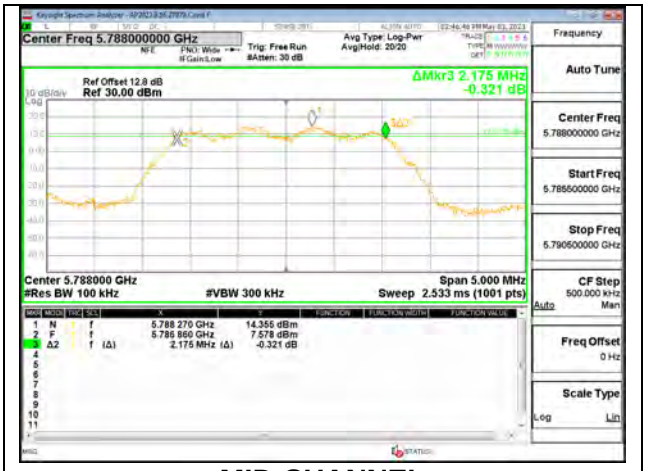
MID CHANNEL [ANT 6]

MID CHANNEL [ANT 5]

9.3.2. HIGH OUTPUT HDR4 MODE IN THE UNII-3 BAND

1TX Antenna 6

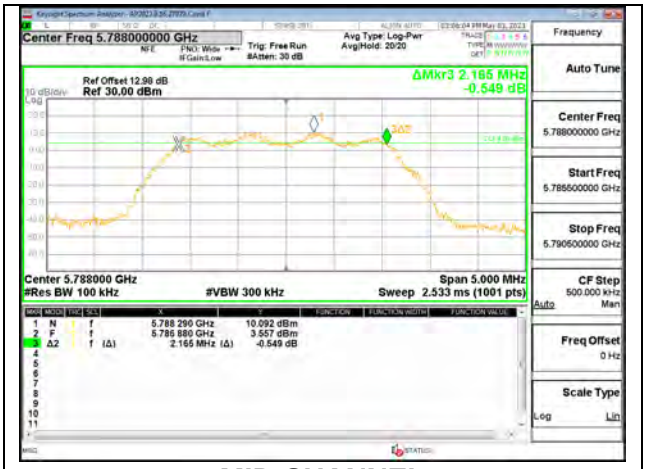
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5733	2.165	0.5
Mid	5788	2.175	0.5
High	5844	2.155	0.5



MID CHANNEL

1TX Antenna 5

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5733	2.185	0.5
Mid	5788	2.165	0.5
High	5844	2.175	0.5



MID CHANNEL

2TX Antenna 6 + Antenna 5 TXBF MODE

Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5733	2.165	2.17	0.5
Mid	5788	2.160	2.165	0.5
High	5844	2.150	2.170	0.5

MID CHANNEL [ANT 6]

MID CHANNEL [ANT 5]

9.3.3. HIGH OUTPUT HDR8 MODE IN THE UNII-3 BAND

1TX Antenna 6

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5733	4.210	0.5
Mid	5788	4.210	0.5
High	5844	4.300	0.5

MID CHANNEL

1TX Antenna 5

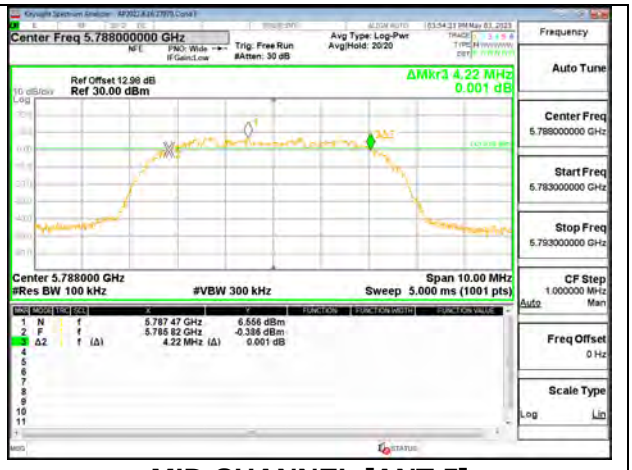
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5733	4.220	0.5
Mid	5788	4.190	0.5
High	5844	4.210	0.5

MID CHANNEL

2TX Antenna 6 + Antenna 5 TXBF MODE

Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5733	4.27	4.21	0.5
Mid	5788	4.21	4.22	0.5
High	5844	4.21	4.25	0.5

MID CHANNEL [ANT 6]



MID CHANNEL [ANT 5]

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9.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz

(a)(1)(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Band 5.725-5.85 GHz

(a)(3)(i) The maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02 v02r01, Section E.3.b (Method PM-G).

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F.

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DIRECTIONAL ANTENNA GAIN

For 1 TX:
There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:

Tx chains are correlated for both power and PSD due to the device supporting TXBF in all MIMO modes. The directional gains are as follows:

Band (GHz)	ANT 6 Gain (dBi)	ANT 5 Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
UNII-1, 5.2GHz	-3.40	-6.00	-4.51	-1.59
UNII-3, 5.8GHz	-5.20	-3.60	-4.33	-1.35

RESULTS:

DIRECTIONAL GAIN CALCULATION:

ANSI C63.10-2013 section 14.4.3

Uncorrelated directional gain=10*LOG((10^(Ant1/10)+10^(Ant2/10))/2)
Correlated directional Gain=10*LOG(((10^(Ant1/20)+10^(Ant2/20))^2)/2)

Sample Calculation:

Ant6=-5.2, Ant5=-3.6

Uncorrelated Antenna gain=10log[(10^(-5.2/10)+10^(-3.6/10))/2]=-4.33dBi

Correlated Antenna gain=10log[(10^(5.2/20)+10^(3.6/20))^2)/2]=-1.35dBi

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9.4.1. FCC HIGH OUTPUT BDR MODE IN UNII-1 BAND

1TX Antenna 6 MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-3.40	24.00	11.00
Mid	5203	-3.40	24.00	11.00
High	5245	-3.40	24.00	11.00

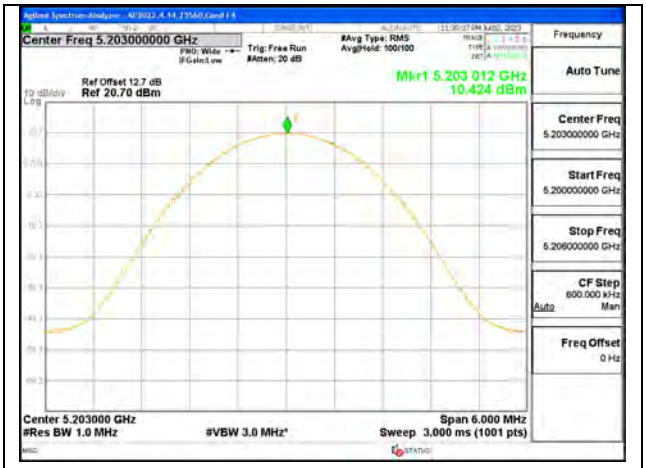
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	10.00	10.00	24.00	-14.00
Mid	5203	9.93	9.93	24.00	-14.07
High	5245	9.91	9.91	24.00	-14.09

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	10.412	10.412	11.00	-0.588
Mid	5203	10.424	10.424	11.00	-0.576
High	5245	10.522	10.522	11.00	-0.478



MID CHANNEL

1TX Antenna 5 MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-6.00	24.00	11.00
Mid	5203	-6.00	24.00	11.00
High	5245	-6.00	24.00	11.00

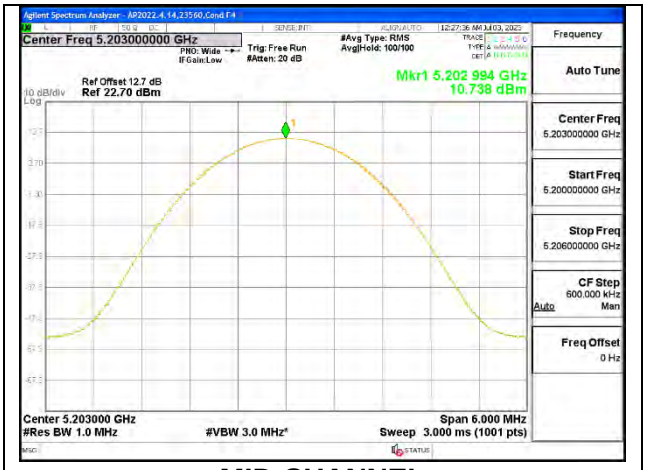
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	10.00	10.00	24.00	-14.00
Mid	5203	9.98	9.98	24.00	-14.02
High	5245	10.00	10.00	24.00	-14.00

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	10.922	10.922	11.00	-0.078
Mid	5203	10.738	10.738	11.00	-0.262
High	5245	10.981	10.981	11.00	-0.019



MID CHANNEL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

2TX Antenna 6 + Antenna 5 TXBF MODE

Test Engineer:	32181
Test Date:	6/16/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-1.59	-1.59	24.00	11.00
Mid	5203	-1.59	-1.59	24.00	11.00
High	5245	-1.59	-1.59	24.00	11.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

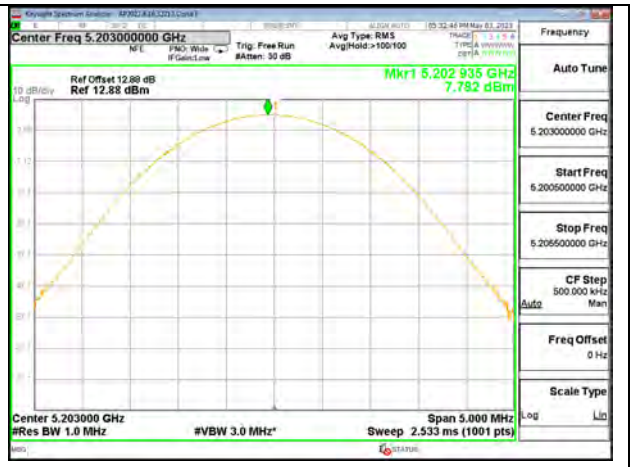
Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	6.98	6.97	9.99	24.00	-14.01
Mid	5203	6.98	7.00	10.00	24.00	-14.00
High	5245	7.00	7.00	10.01	24.00	-13.99

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	6.852	7.702	10.308	11.00	-0.692
Mid	5203	7.191	7.782	10.507	11.00	-0.493
High	5245	7.313	7.550	10.443	11.00	-0.557

MID CHANNEL [ANT 6]



MID CHANNEL [ANT 5]

9.4.2. FCC LOW OUTPUT BDR MODE IN UNII-1 BAND

1TX Antenna 6 MODE

Test Engineer:	32181
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-3.40	24.00	11.00
Mid	5203	-3.40	24.00	11.00
High	5245	-3.40	24.00	11.00

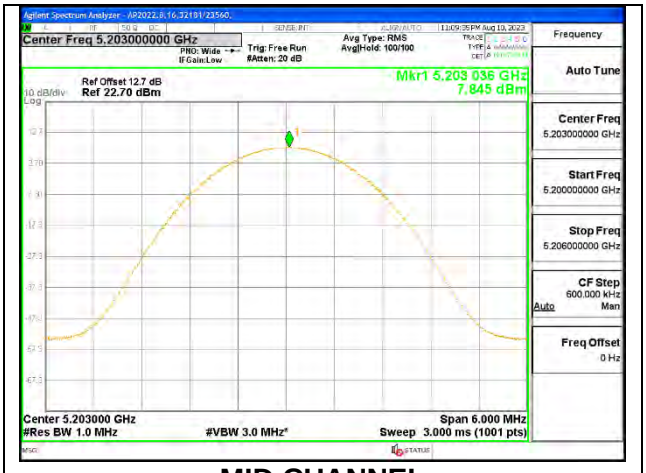
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	7.40	7.40	24.00	-16.60
Mid	5203	7.50	7.50	24.00	-16.50
High	5245	7.50	7.50	24.00	-16.50

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	7.776	7.776	11.00	-3.224
Mid	5203	7.845	7.845	11.00	-3.155
High	5245	7.890	7.890	11.00	-3.110



MID CHANNEL

1TX Antenna 5 MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-6.00	24.00	11.00
Mid	5203	-6.00	24.00	11.00
High	5245	-6.00	24.00	11.00

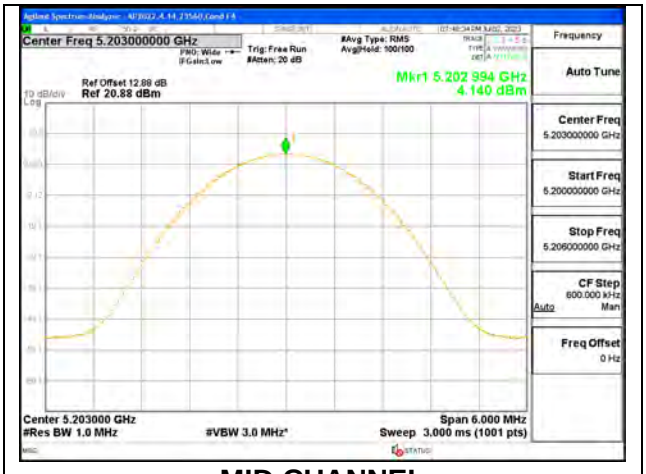
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	4.50	4.50	24.00	-19.50
Mid	5203	4.40	4.40	24.00	-19.60
High	5245	4.50	4.50	24.00	-19.50

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	3.800	3.800	11.00	-7.200
Mid	5203	4.140	4.140	11.00	-6.860
High	5245	3.702	3.702	11.00	-7.298



MID CHANNEL

2TX Antenna 6 + Antenna 5 TXBF MODE

Test Engineer:	44366
Test Date:	6/19/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-1.59	-1.59	24.00	11.00
Mid	5203	-1.59	-1.59	24.00	11.00
High	5245	-1.59	-1.59	24.00	11.00

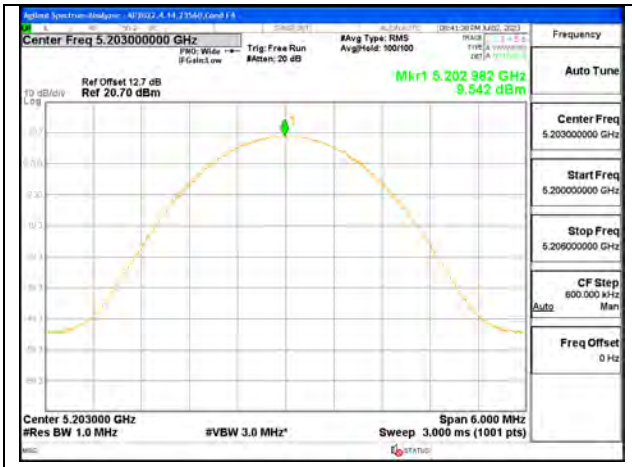
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

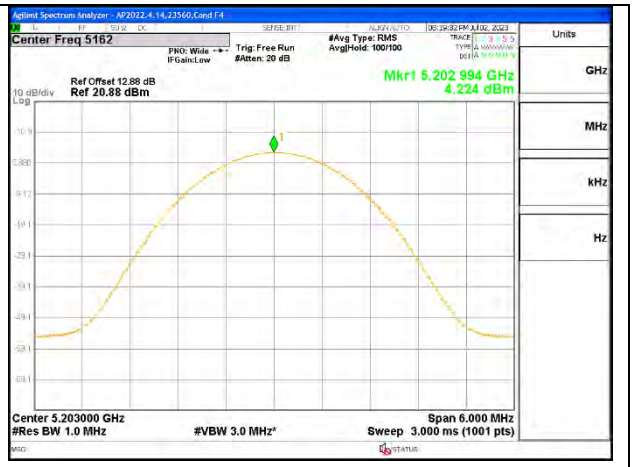
Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	7.00	4.30	8.87	24.00	-15.13
Mid	5203	6.98	4.50	8.92	24.00	-15.08
High	5245	7.00	4.44	8.92	24.00	-15.08

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	9.46	4.032	10.552	11.00	-0.448
Mid	5203	9.54	4.224	10.661	11.00	-0.339
High	5245	9.45	3.772	10.487	11.00	-0.513



MID CHANNEL [ANT 6]



MID CHANNEL [ANT 5]

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

9.4.3. FCC HIGH OUTPUT HDR4 MODE IN UNII-1 BAND

1TX Antenna 6 MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-3.40	24.00	11.00
Mid	5203	-3.40	24.00	11.00
High	5245	-3.40	24.00	11.00

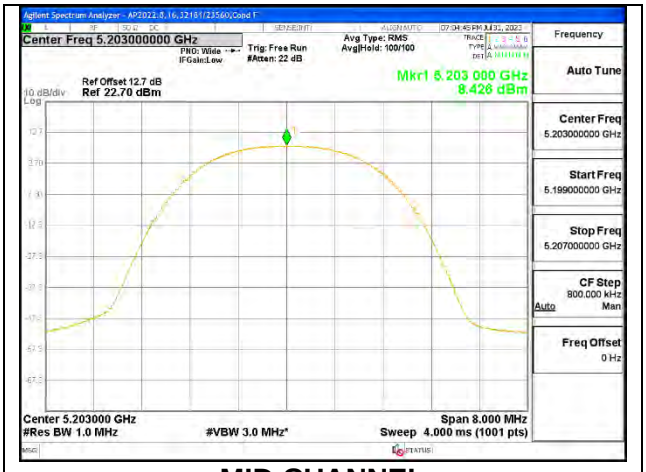
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	11.96	11.96	24.00	-12.04
Mid	5203	11.97	11.97	24.00	-12.03
High	5245	12.00	12.00	24.00	-12.00

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	8.879	8.879	11.00	-2.121
Mid	5203	8.426	8.426	11.00	-2.574
High	5245	8.640	8.640	11.00	-2.360



MID CHANNEL

1TX Antenna 5 MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-6.00	24.00	11.00
Mid	5203	-6.00	24.00	11.00
High	5245	-6.00	24.00	11.00

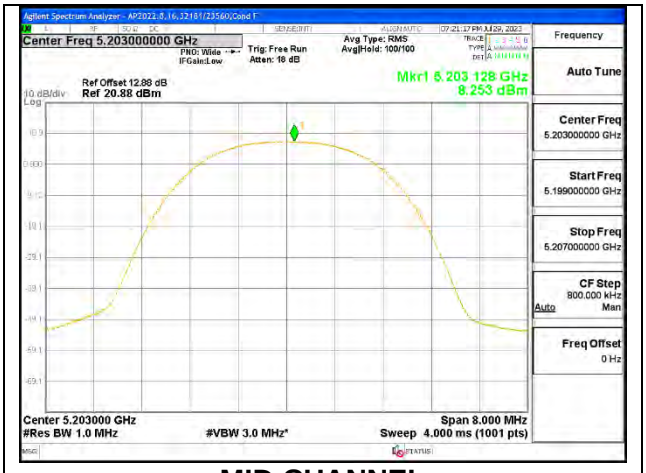
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	12.00	12.00	24.00	-12.00
Mid	5203	12.00	12.00	24.00	-12.00
High	5245	11.90	11.90	24.00	-12.10

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	8.706	8.706	11.00	-2.294
Mid	5203	8.253	8.253	11.00	-2.747
High	5245	8.431	8.431	11.00	-2.569



MID CHANNEL

2TX Antenna 6 + Antenna 5 TXBF MODE

Test Engineer:	32181
Test Date:	6/16/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-1.59	-1.59	24.00	11.00
Mid	5203	-1.59	-1.59	24.00	11.00
High	5245	-1.59	-1.59	24.00	11.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	9.00	9.00	12.01	24.00	-11.99
Mid	5203	8.95	8.98	11.98	24.00	-12.02
High	5245	8.86	8.88	11.88	24.00	-12.12

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	7.07	7.441	10.269	11.00	-0.731
Mid	5203	7.25	7.212	10.239	11.00	-0.761
High	5245	7.14	7.207	10.184	11.00	-0.816

MID CHANNEL [ANT 6]

MID CHANNEL [ANT 5]

9.4.4. FCC LOW OUTPUT HDR4 MODE IN UNII-1 BAND

1TX Antenna 6 MODE

Test Engineer:	32181
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-3.40	24.00	11.00
Mid	5203	-3.40	24.00	11.00
High	5245	-3.40	24.00	11.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	0.96	0.96	24.00	-23.04
Mid	5203	0.99	0.99	24.00	-23.01
High	5245	0.98	0.98	24.00	-23.02

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	-1.725	-1.725	11.00	-12.725
Mid	5203	-1.665	-1.665	11.00	-12.665
High	5245	-1.386	-1.386	11.00	-12.386

MID CHANNEL

1TX Antenna 5 MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-6.00	24.00	11.00
Mid	5203	-6.00	24.00	11.00
High	5245	-6.00	24.00	11.00

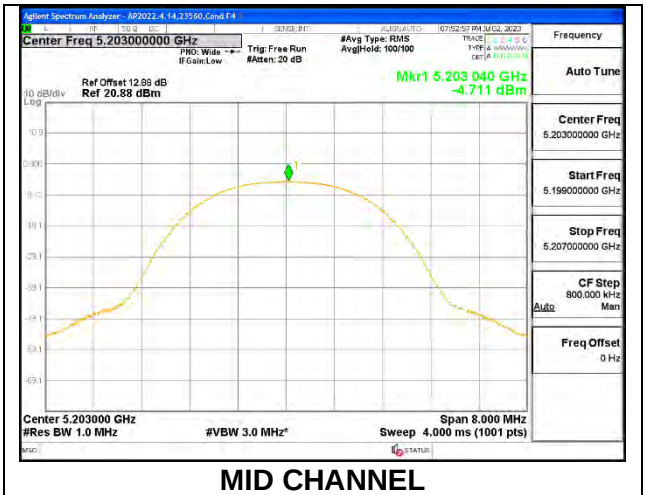
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	-2.02	-2.02	24.00	-26.02
Mid	5203	-2.04	-2.04	24.00	-26.04
High	5245	-2.05	-2.05	24.00	-26.05

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	-4.740	-4.740	11.00	-15.740
Mid	5203	-4.711	-4.711	11.00	-15.711
High	5245	-5.225	-5.225	11.00	-16.225



MID CHANNEL

2TX Antenna 6 + Antenna 5 TXBF MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-1.59	-1.59	24.00	11.00
Mid	5203	-1.59	-1.59	24.00	11.00
High	5245	-1.59	-1.59	24.00	11.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

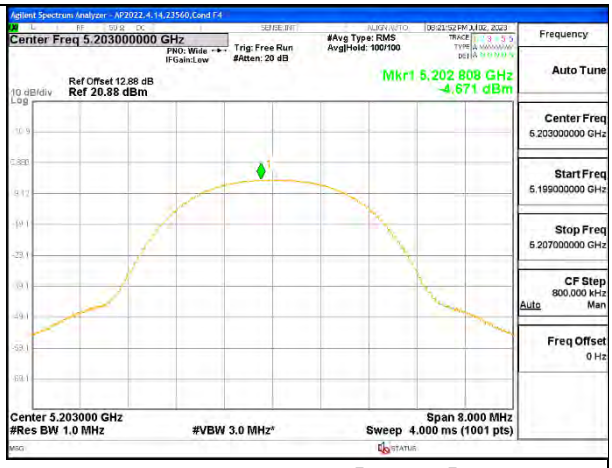
Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	0.98	-2.01	2.75	24.00	-21.25
Mid	5203	0.99	-2.00	2.76	24.00	-21.24
High	5245	0.95	-2.01	2.73	24.00	-21.27

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	-2.025	-4.690	-0.146	11.00	-11.146
Mid	5203	-1.758	-4.671	0.036	11.00	-10.964
High	5245	-2.137	-5.107	-0.363	11.00	-11.363

MID CHANNEL [ANT 6]



MID CHANNEL [ANT 5]

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

9.4.5. FCC HIGH OUTPUT HDR8 MODE IN UNII-1 BAND

1TX Antenna 6 MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-3.40	24.00	11.00
Mid	5203	-3.40	24.00	11.00
High	5245	-3.40	24.00	11.00

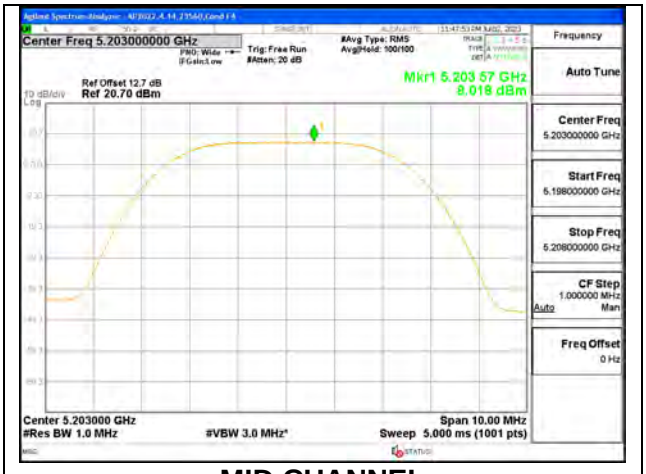
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	13.79	13.79	24.00	-10.21
Mid	5203	13.96	13.96	24.00	-10.04
High	5245	13.83	13.83	24.00	-10.17

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	8.546	8.546	11.00	-2.454
Mid	5203	8.018	8.018	11.00	-2.982
High	5245	8.364	8.364	11.00	-2.636



MID CHANNEL

1TX Antenna 5 MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-6.00	24.00	11.00
Mid	5203	-6.00	24.00	11.00
High	5245	-6.00	24.00	11.00

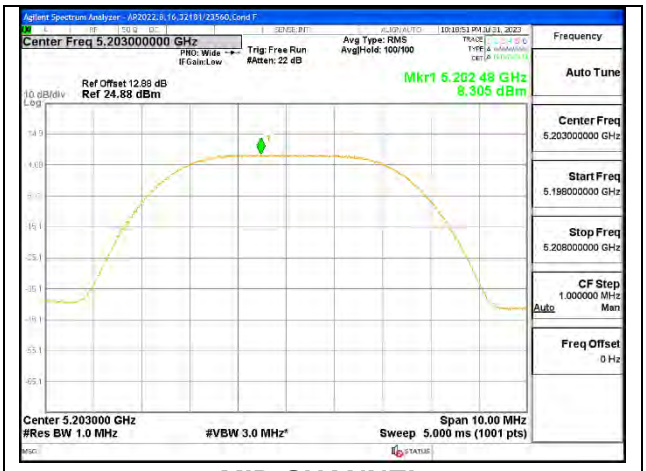
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	13.99	13.99	24.00	-10.01
Mid	5203	13.97	13.97	24.00	-10.03
High	5245	13.96	13.96	24.00	-10.04

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	8.267	8.267	11.00	-2.733
Mid	5203	8.305	8.305	11.00	-2.695
High	5245	8.444	8.444	11.00	-2.556



MID CHANNEL

2TX Antenna 6 + Antenna 5 TXBF MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-1.59	-1.59	24.00	11.00
Mid	5203	-1.59	-1.59	24.00	11.00
High	5245	-1.59	-1.59	24.00	11.00

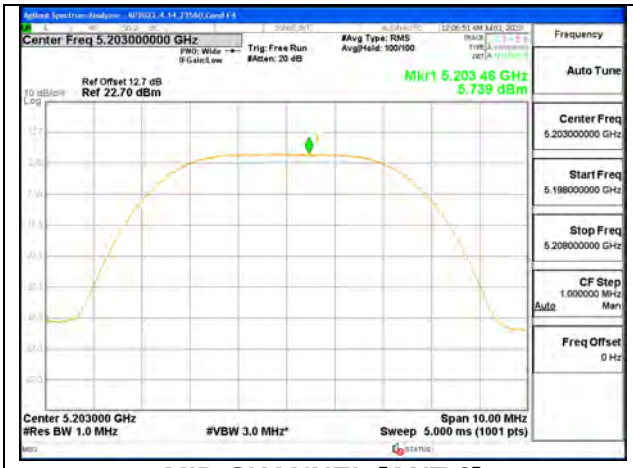
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

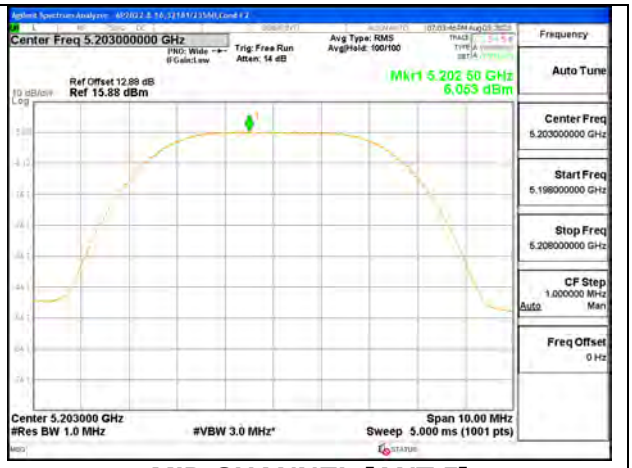
Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	11.00	10.90	13.96	24.00	-10.04
Mid	5203	11.00	10.99	14.01	24.00	-9.99
High	5245	10.95	11.00	13.99	24.00	-10.01

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	5.776	5.983	8.891	11.00	-2.109
Mid	5203	5.739	6.053	8.909	11.00	-2.091
High	5245	6.068	6.052	9.070	11.00	-1.930



MID CHANNEL [ANT 6]



MID CHANNEL [ANT 5]

9.4.6. FCC LOW OUTPUT HDR8 MODE IN UNII-1 BAND

1TX Antenna 6 MODE

Test Engineer:	32181
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-3.40	24.00	11.00
Mid	5203	-3.40	24.00	11.00
High	5245	-3.40	24.00	11.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	0.97	0.97	24.00	-23.03
Mid	5203	0.99	0.99	24.00	-23.01
High	5245	0.98	0.98	24.00	-23.02

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	-2.690	-2.690	11.00	-13.690
Mid	5203	-2.845	-2.845	11.00	-13.845
High	5245	-3.116	-3.116	11.00	-14.116

MID CHANNEL

1TX Antenna 5 MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-6.00	24.00	11.00
Mid	5203	-6.00	24.00	11.00
High	5245	-6.00	24.00	11.00

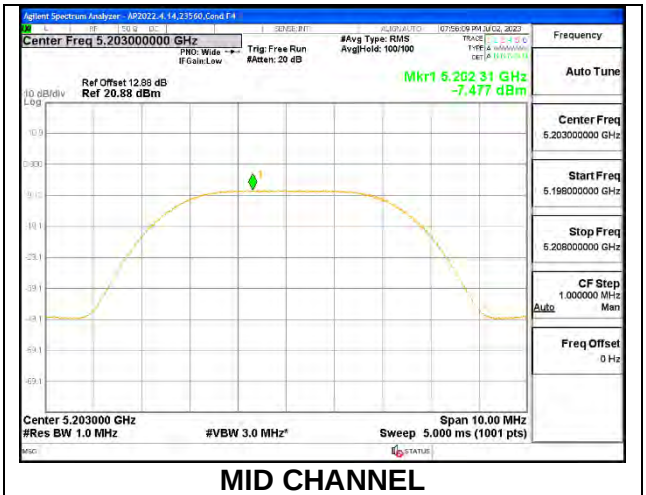
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	-2.01	-2.01	24.00	-26.01
Mid	5203	-2.00	-2.00	24.00	-26.00
High	5245	-2.01	-2.01	24.00	-26.01

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	-7.550	-7.550	11.00	-18.550
Mid	5203	-7.477	-7.477	11.00	-18.477
High	5245	-7.852	-7.852	11.00	-18.852



MID CHANNEL

2TX Antenna 6 + Antenna 5 TXBF MODE

Test Engineer:	32181
Test Date:	6/16/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5162	-1.59	-1.59	24.00	11.00
Mid	5203	-1.59	-1.59	24.00	11.00
High	5245	-1.59	-1.59	24.00	11.00

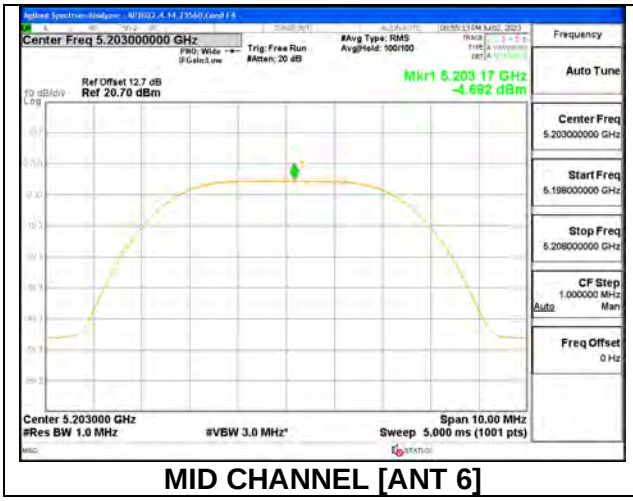
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

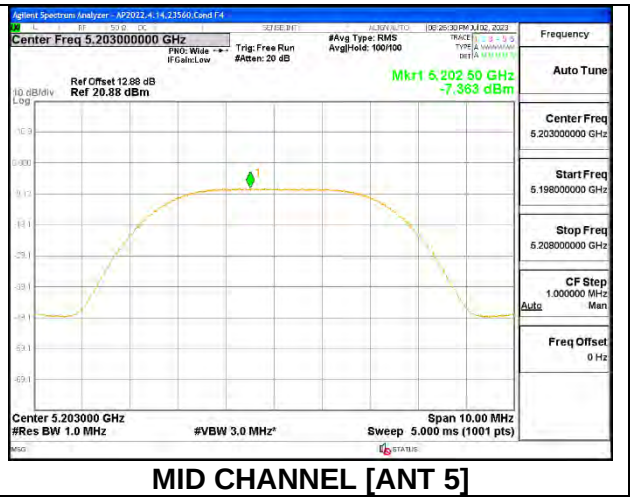
Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5162	0.98	-2.02	2.74	24.00	-21.26
Mid	5203	0.97	-2.06	2.72	24.00	-21.28
High	5245	0.99	-2.03	2.75	24.00	-21.25

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5162	-5.102	-7.325	-3.062	11.00	-14.062
Mid	5203	-4.682	-7.363	-2.809	11.00	-13.809
High	5245	-4.850	-7.455	-2.950	11.00	-13.950



MID CHANNEL [ANT 6]



MID CHANNEL [ANT 5]

9.4.7. HIGH OUTPUT BDR MODE IN UNII-3 BAND

1TX Antenna 6 MODE

Test Engineer:	27979
Test Date:	5/22/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 500KHz)
Low	5733	-5.20	30.00	30.00
Mid	5788	-5.20	30.00	30.00
High	5844	-5.20	30.00	30.00

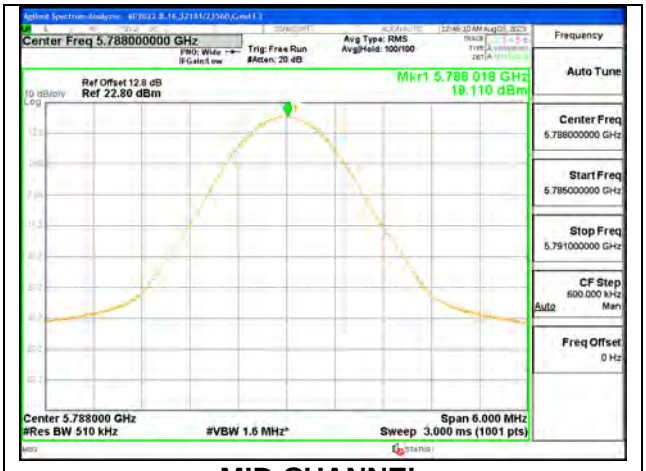
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	19.93	19.93	30.00	-10.07
Mid	5788	20.00	20.00	30.00	-10.00
High	5844	19.79	19.79	30.00	-10.21

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	18.689	18.689	30.00	-11.311
Mid	5788	18.110	18.110	30.00	-11.890
High	5844	18.529	18.529	30.00	-11.471



MID CHANNEL

1TX Antenna 5 MODE

Test Engineer:	32181
Test Date:	6/21/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 500KHz)
Low	5733	-3.60	30.00	30.00
Mid	5788	-3.60	30.00	30.00
High	5844	-3.60	30.00	30.00

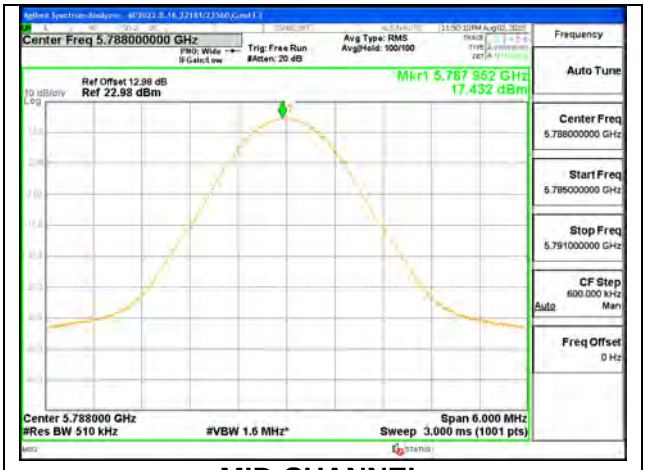
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	19.38	19.38	30.00	-10.62
Mid	5788	19.50	19.50	30.00	-10.50
High	5844	19.46	19.46	30.00	-10.54

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	17.970	17.970	30.00	-12.030
Mid	5788	17.432	17.432	30.00	-12.568
High	5844	17.380	17.380	30.00	-12.620



MID CHANNEL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

2TX Antenna 6 + Antenna 5 TXBF MODE

Test Engineer:	32181
Test Date:	6/21/2023

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5733	-1.35	-1.35	30.00	30.00
Mid	5788	-1.35	-1.35	30.00	30.00
High	5844	-1.35	-1.35	30.00	30.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

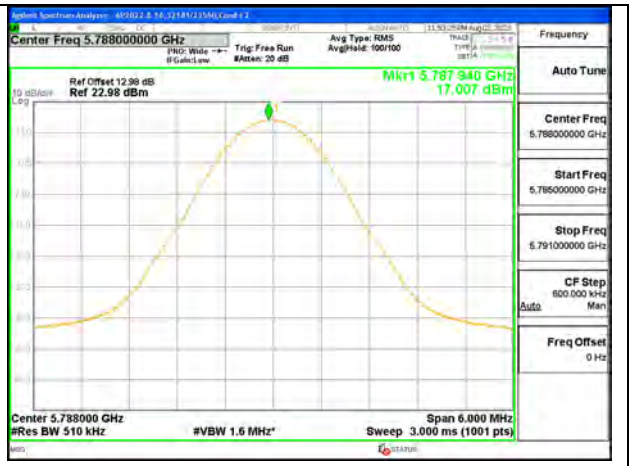
Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	19.85	19.45	22.66	30.00	-7.34
Mid	5788	19.81	19.50	22.67	30.00	-7.33
High	5844	20.00	19.44	22.74	30.00	-7.26

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	18.418	17.505	20.996	30.00	-9.004
Mid	5788	18.171	17.007	20.638	30.00	-9.362
High	5844	18.181	17.381	20.810	30.00	-9.190

MID CHANNEL [ANT 6]



MID CHANNEL [ANT 5]

9.4.8. LOW OUTPUT BDR MODE IN UNII-3 BAND

1TX Antenna 6 MODE

Test Engineer:	32181
Test Date:	6/15/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 500KHz)
Low	5733	-5.20	30.00	30.00
Mid	5788	-5.20	30.00	30.00
High	5844	-5.20	30.00	30.00

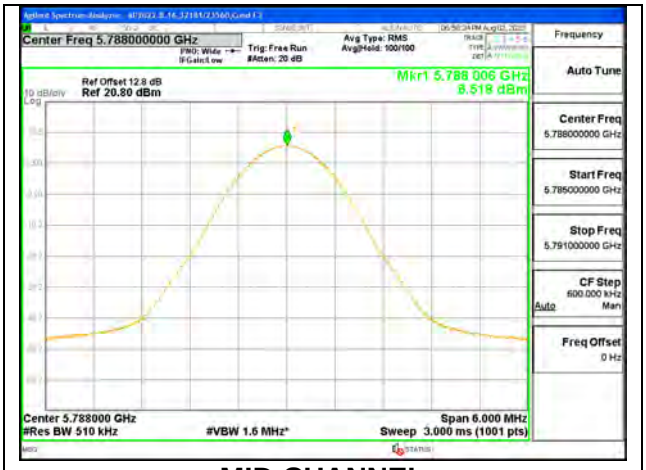
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	7.97	7.97	30.00	-22.03
Mid	5788	8.00	8.00	30.00	-22.00
High	5844	7.98	7.98	30.00	-22.02

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	6.605	6.605	30.00	-23.395
Mid	5788	6.518	6.518	30.00	-23.482
High	5844	6.482	6.482	30.00	-23.518



MID CHANNEL

1TX Antenna 5 MODE

Test Engineer:	23560
Test Date:	6/15/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 500KHz)
Low	5733	-3.60	30.00	30.00
Mid	5788	-3.60	30.00	30.00
High	5844	-3.60	30.00	30.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	5.34	5.34	30.00	-24.66
Mid	5788	5.40	5.40	30.00	-24.60
High	5844	5.50	5.50	30.00	-24.50

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	3.542	3.542	30.00	-26.458
Mid	5788	3.404	3.404	30.00	-26.596
High	5844	3.382	3.382	30.00	-26.618

MID CHANNEL

2TX Antenna 6 + Antenna 5 TX BF MODE (FCC)

Test Engineer:	23560
Test Date:	6/15/2023

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5733	-1.35	-1.35	30.00	30.00
Mid	5788	-1.35	-1.35	30.00	30.00
High	5844	-1.35	-1.35	30.00	30.00

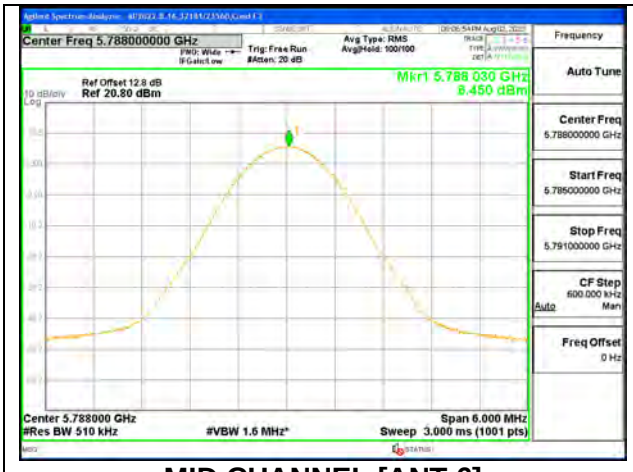
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	7.98	5.49	9.92	30.00	-20.08
Mid	5788	8.00	5.47	9.93	30.00	-20.07
High	5844	7.98	5.47	9.91	30.00	-20.09

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	6.796	3.185	8.366	30.00	-21.634
Mid	5788	6.450	3.766	8.322	30.00	-21.678
High	5844	6.303	3.985	8.307	30.00	-21.693



MID CHANNEL [ANT 6]

MID CHANNEL [ANT 5]

9.4.9. HIGH OUTPUT HDR4 MODE IN UNII-3 BAND

1TX Antenna 6 MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 500KHz)
Low	5733	-5.20	30.00	30.00
Mid	5788	-5.20	30.00	30.00
High	5844	-5.20	30.00	30.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	14.48	14.48	30.00	-15.52
Mid	5788	14.49	14.49	30.00	-15.51
High	5844	14.50	14.50	30.00	-15.50

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	8.520	8.520	30.00	-21.480
Mid	5788	8.117	8.117	30.00	-21.883
High	5844	8.513	8.513	30.00	-21.487

MID CHANNEL

1TX Antenna 5 MODE

Test Engineer:	32181
Test Date:	6/21/2023

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 500KHz)
Low	5733	-3.60	30.00	30.00
Mid	5788	-3.60	30.00	30.00
High	5844	-3.60	30.00	30.00

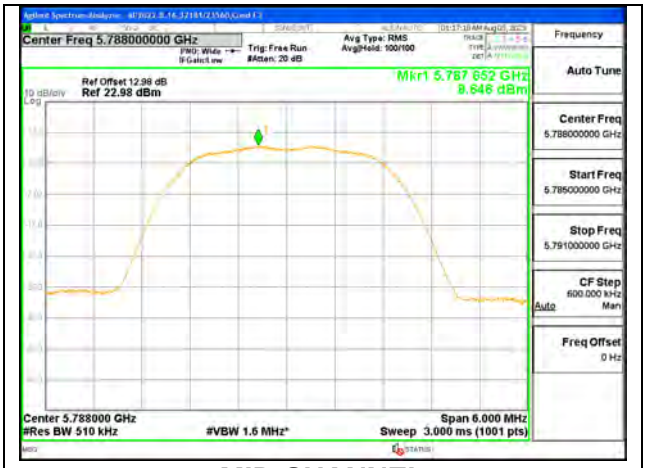
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	14.37	14.37	30.00	-15.63
Mid	5788	14.50	14.50	30.00	-15.50
High	5844	14.35	14.35	30.00	-15.65

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	8.295	8.295	30.00	-21.705
Mid	5788	8.646	8.646	30.00	-21.354
High	5844	8.120	8.120	30.00	-21.880



MID CHANNEL

2TX Antenna 6 + Antenna 5 TXBF MODE

Test Engineer:	32181
Test Date:	6/22/2023

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5733	-1.35	-1.35	30.00	30.00
Mid	5788	-1.35	-1.35	30.00	30.00
High	5844	-1.35	-1.35	30.00	30.00

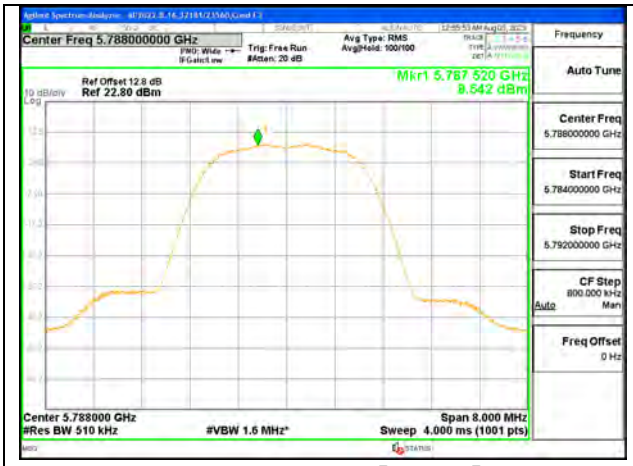
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	14.50	14.50	17.51	30.00	-12.49
Mid	5788	14.30	14.40	17.36	30.00	-12.64
High	5844	14.50	14.48	17.50	30.00	-12.50

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	8.319	8.735	11.542	30.00	-18.458
Mid	5788	8.542	8.602	11.582	30.00	-18.418
High	5844	8.741	8.088	11.437	30.00	-18.563



MID CHANNEL [ANT 6]

MID CHANNEL [ANT 5]

9.4.10. LOW OUTPUT HDR4 MODE IN UNII-3 BAND

1TX Antenna 6 MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 500KHz)
Low	5733	-5.20	30.00	30.00
Mid	5788	-5.20	30.00	30.00
High	5844	-5.20	30.00	30.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	1.50	1.50	30.00	-28.50
Mid	5788	1.49	1.49	30.00	-28.51
High	5844	1.45	1.45	30.00	-28.55

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	-3.729	-3.729	30.00	-33.729
Mid	5788	-3.614	-3.614	30.00	-33.614
High	5844	-4.070	-4.070	30.00	-34.070

MID CHANNEL

1TX Antenna 5 MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 500KHz)
Low	5733	-3.60	30.00	30.00
Mid	5788	-3.60	30.00	30.00
High	5844	-3.60	30.00	30.00

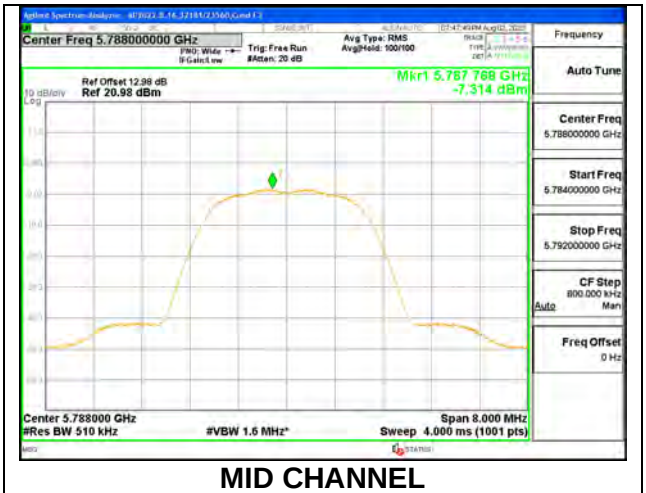
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	-1.10	-1.10	30.00	-31.10
Mid	5788	-1.20	-1.20	30.00	-31.20
High	5844	-1.21	-1.21	30.00	-31.21

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	-7.514	-7.514	30.00	-37.514
Mid	5788	-7.314	-7.314	30.00	-37.314
High	5844	-7.574	-7.574	30.00	-37.574



MID CHANNEL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

2TX Antenna 6 + Antenna 5 TXBF MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5733	-1.35	-1.35	30.00	30.00
Mid	5788	-1.35	-1.35	30.00	30.00
High	5844	-1.35	-1.35	30.00	30.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	1.50	-1.20	3.37	30.00	-26.63
Mid	5788	1.49	-1.30	3.33	30.00	-26.67
High	5844	1.45	-1.09	3.37	30.00	-26.63

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	-4.175	-7.804	-2.611	30.00	-32.611
Mid	5788	-4.097	-7.013	-2.304	30.00	-32.304
High	5844	-4.070	-7.014	-2.287	30.00	-32.287

MID CHANNEL [ANT 6]

MID CHANNEL [ANT 5]

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

9.4.11. HIGH OUTPUT HDR8 MODE IN UNII-3 BAND

1TX Antenna 6 MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 500KHz)
Low	5733	-5.20	30.00	30.00
Mid	5788	-5.20	30.00	30.00
High	5844	-5.20	30.00	30.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	14.40	14.40	30.00	-15.60
Mid	5788	14.50	14.50	30.00	-15.50
High	5844	14.50	14.50	30.00	-15.50

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	5.678	5.678	30.00	-24.322
Mid	5788	5.177	5.177	30.00	-24.823
High	5844	5.119	5.119	30.00	-24.881

MID CHANNEL

1TX Antenna 5 MODE

Test Engineer:	32181
Test Date:	6/21/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 500KHz)
Low	5733	-3.60	30.00	30.00
Mid	5788	-3.60	30.00	30.00
High	5844	-3.60	30.00	30.00

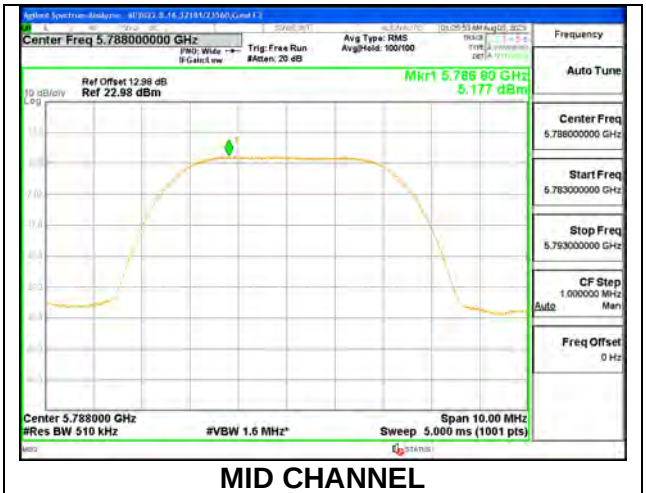
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	14.44	14.44	30.00	-15.56
Mid	5788	14.50	14.50	30.00	-15.50
High	5844	14.50	14.50	30.00	-15.50

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	5.354	5.354	30.00	-24.646
Mid	5788	5.177	5.177	30.00	-24.823
High	5844	4.858	4.858	30.00	-25.142



MID CHANNEL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

2TX Antenna 6 + Antenna 5 TXBF MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5733	-1.35	-1.35	30.00	30.00
Mid	5788	-1.35	-1.35	30.00	30.00
High	5844	-1.35	-1.35	30.00	30.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	14.50	14.40	17.46	30.00	-12.54
Mid	5788	14.49	14.38	17.45	30.00	-12.55
High	5844	14.50	14.40	17.46	30.00	-12.54

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	5.834	5.233	8.554	30.00	-21.446
Mid	5788	5.483	4.992	8.255	30.00	-21.745
High	5844	5.167	5.015	8.102	30.00	-21.898

MID CHANNEL [ANT 6]

MID CHANNEL [ANT 5]

9.4.12. LOW OUTPUT HDR8 MODE IN UNII-3 BAND

1TX Antenna 6 MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 500KHz)
Low	5733	-5.20	30.00	30.00
Mid	5788	-5.20	30.00	30.00
High	5844	-5.20	30.00	30.00

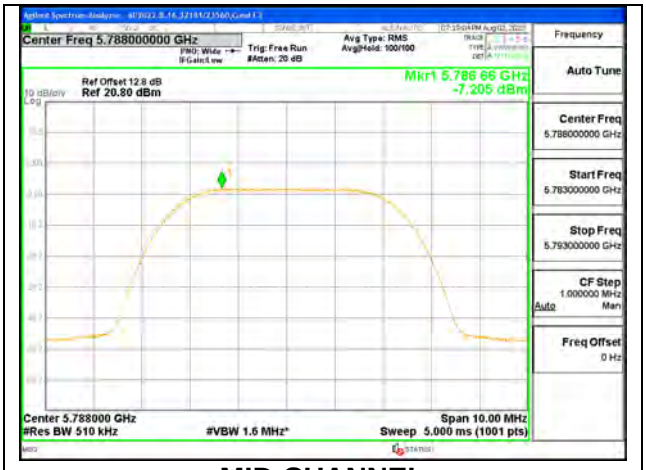
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	1.50	1.50	30.00	-28.50
Mid	5788	1.45	1.45	30.00	-28.55
High	5844	1.50	1.50	30.00	-28.50

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	-6.958	-6.958	30.00	-36.958
Mid	5788	-7.205	-7.205	30.00	-37.205
High	5844	-6.981	-6.981	30.00	-36.981



MID CHANNEL

1TX Antenna 5 MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 500KHz)
Low	5733	-3.60	30.00	30.00
Mid	5788	-3.60	30.00	30.00
High	5844	-3.60	30.00	30.00

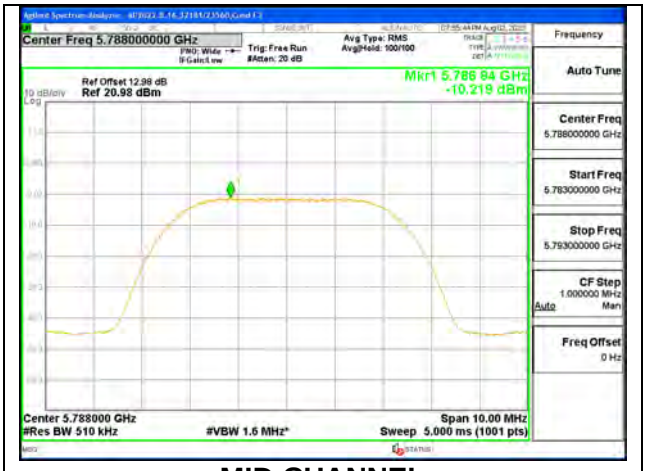
Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	-1.11	-1.11	30.00	-31.11
Mid	5788	-1.21	-1.21	30.00	-31.21
High	5844	-1.25	-1.25	30.00	-31.25

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	-9.971	-9.971	30.00	-39.971
Mid	5788	-10.219	-10.219	30.00	-40.219
High	5844	-10.201	-10.201	30.00	-40.201



MID CHANNEL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

2TX Antenna 6 + Antenna 5 TXBF MODE

Test Engineer:	23560
Test Date:	7/2/2023

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5733	-1.35	-1.35	30.00	30.00
Mid	5788	-1.35	-1.35	30.00	30.00
High	5844	-1.35	-1.35	30.00	30.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5733	1.48	-1.11	3.39	30.00	-26.61
Mid	5788	1.45	-1.14	3.36	30.00	-26.64
High	5844	1.45	-1.20	3.33	30.00	-26.67

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5733	-7.346	-9.609	-5.321	30.00	-35.321
Mid	5788	-7.406	-10.406	-5.642	30.00	-35.642
High	5844	-7.465	-10.610	-5.749	30.00	-35.749

MID CHANNEL [ANT 6]

MID CHANNEL [ANT 5]

10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 -Restriced bands
FCC §15.407(b)(1-3) -Un-Restriced bands

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz and 1.5 meters above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

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Note: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as report in the table) using free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

RESULTS

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

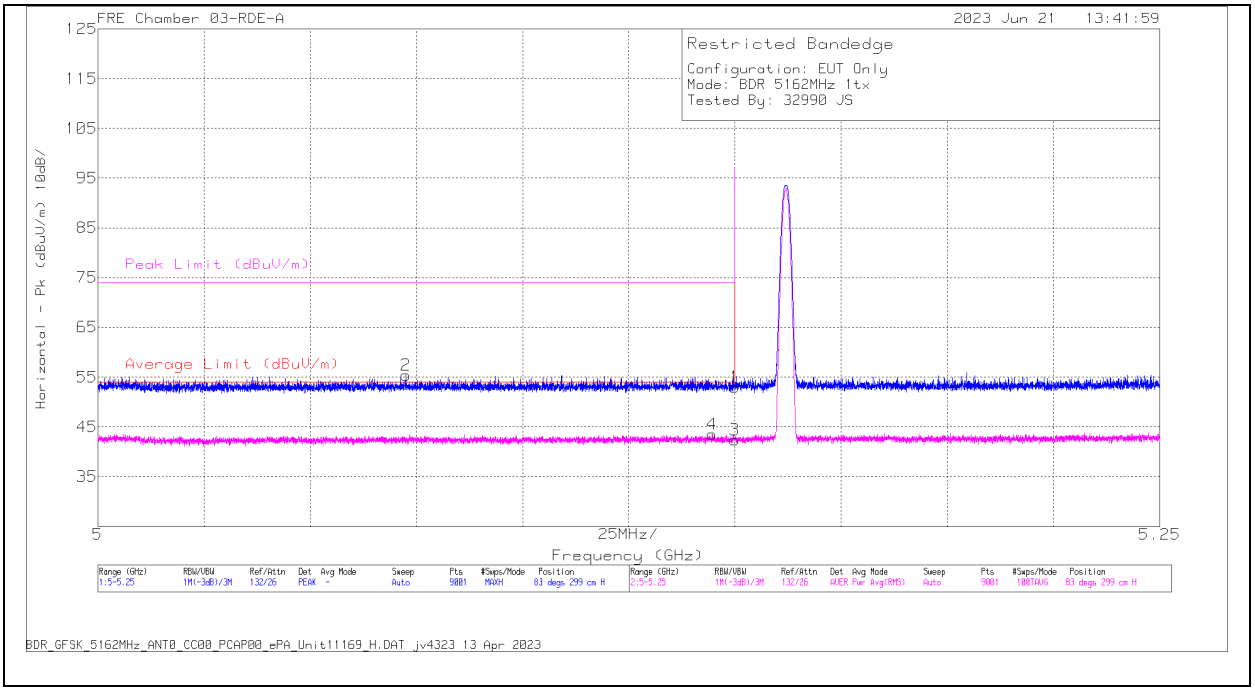
10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. BDR, HIGH POWER UNII-1 BANDEDGE

ANT 6

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

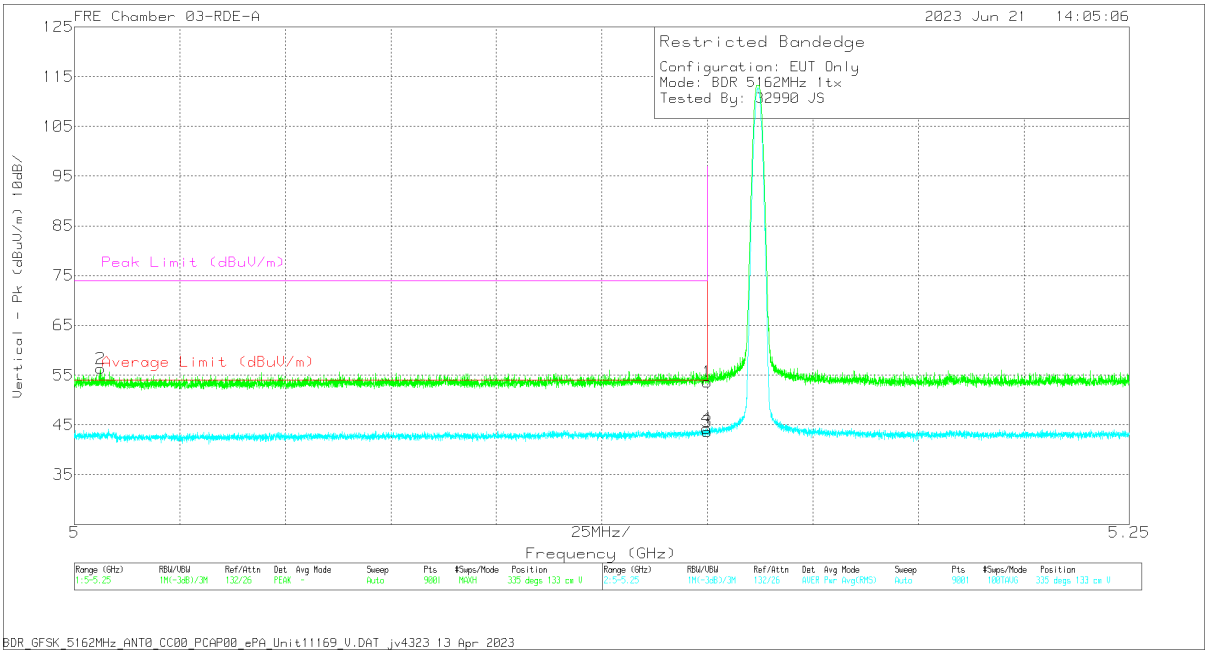


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.072473	59.83	Pk	34.5	0	-38.9	55.43	-	-	74	-18.57	83	299	H
4	* 5.14464	47.75	RMS	34.6	0	-38.79	43.56	54	-10.44	-	-	83	299	H
1	* 5.15	57.1	Pk	34.6	0	-38.69	53.01	-	-	74	-20.99	83	299	H
3	* 5.15	46.48	RMS	34.6	0	-38.69	42.39	54	-11.61	-	-	83	299	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



Trace Markers

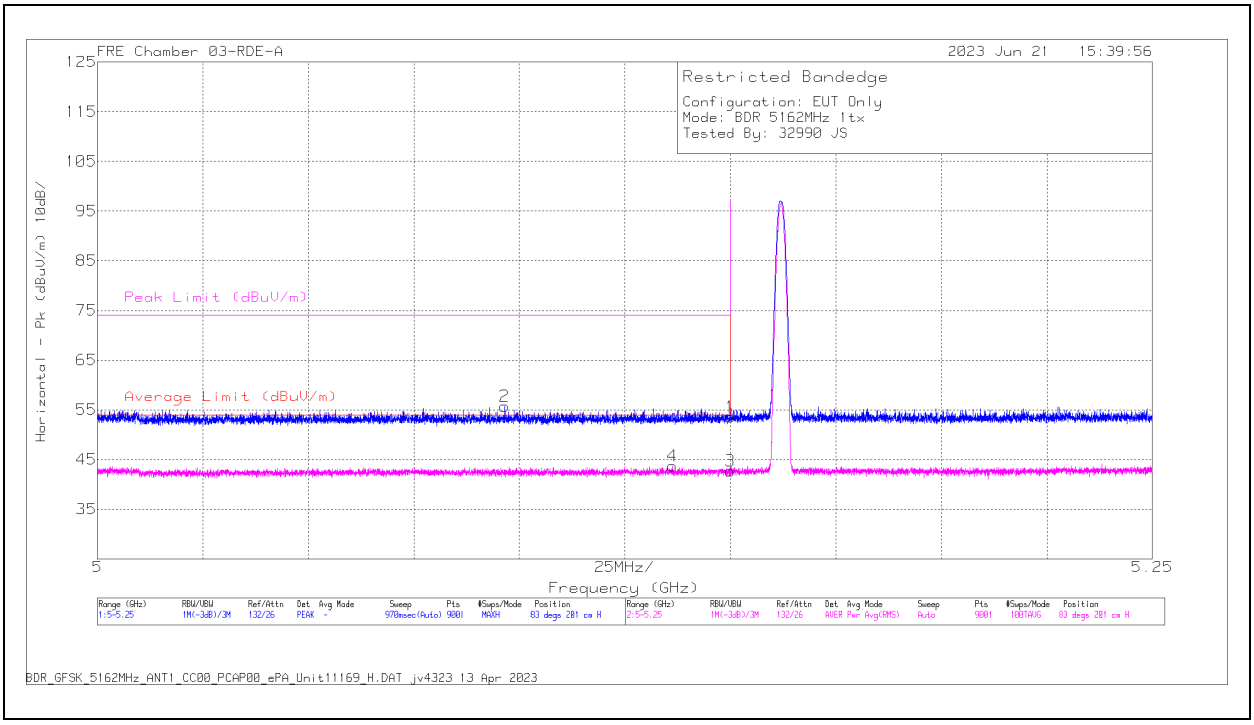
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.73	Pk	34.6	0	-38.69	53.64	-	-	74	-20.36	335	133	V
2	* 5.006194	60.89	Pk	34.4	0	-38.96	56.33	-	-	74	-17.67	335	133	V
3	* 5.15	47.7	RMS	34.6	0	-38.69	43.61	54	-10.39	-	-	335	133	V
4	* 5.149807	48.36	RMS	34.6	0	-38.7	44.26	54	-9.74	-	-	335	133	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

ANT 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

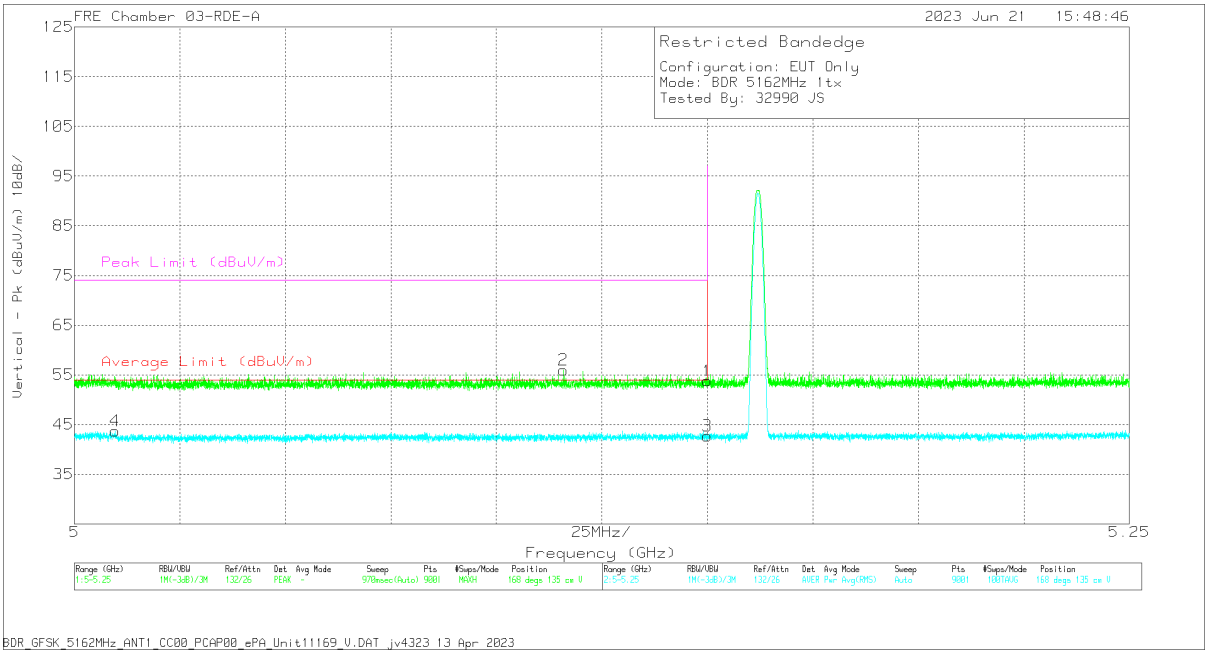


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.69	Pk	34.6	0	-38.69	53.6	-	-	74	-20.4	83	201	H
2	* 5.096556	60.16	Pk	34.5	0	-38.92	55.74	-	-	74	-18.26	83	201	H
3	* 5.15	46.82	RMS	34.6	0	-38.69	42.73	54	-11.27	-	-	83	201	H
4	* 5.136307	47.91	RMS	34.5	0	-38.73	43.68	54	-10.32	-	-	83	201	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



Trace Markers

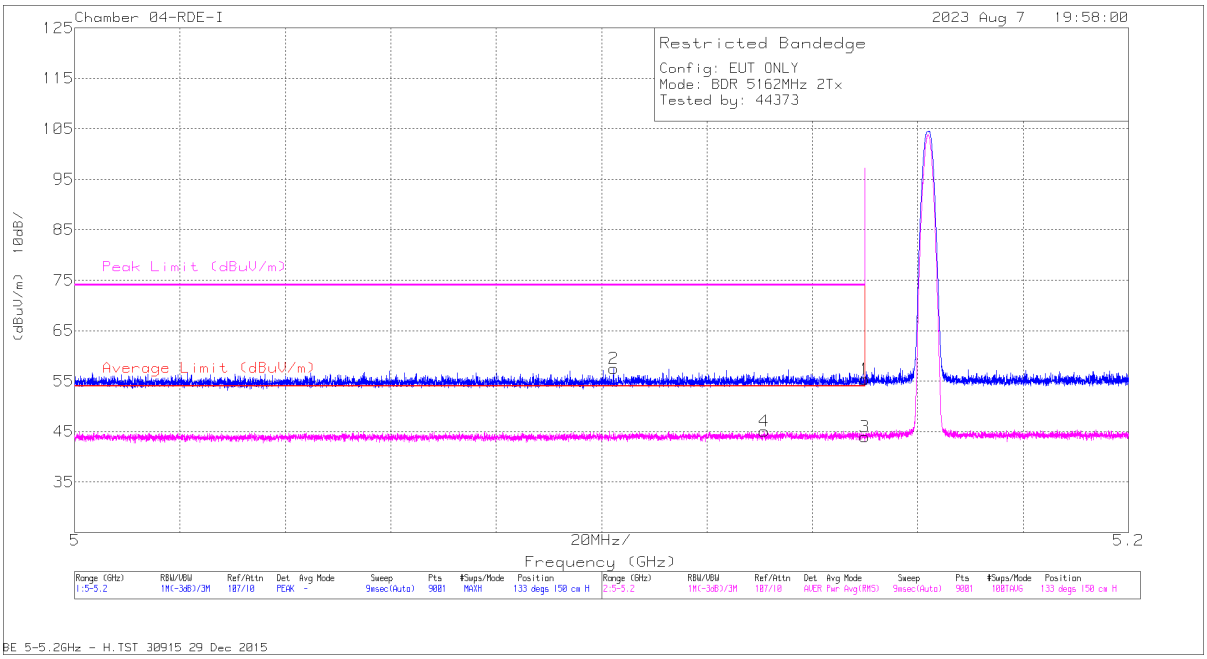
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.87	Pk	34.6	0	-38.69	53.78	-	-	74	-20.22	168	135	V
2	* 5.115834	60.33	Pk	34.5	0	-38.85	55.98	-	-	74	-18.02	168	135	V
3	* 5.15	46.82	RMS	34.6	0	-38.69	42.73	54	-11.27	-	-	168	135	V
4	* 5.009667	48.33	RMS	34.4	0	-39	43.73	54	-10.27	-	-	168	135	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

2TX Antenna 6 + Antenna 5 TXBF MODE

BANDEDGE (LOW CHANNEL)

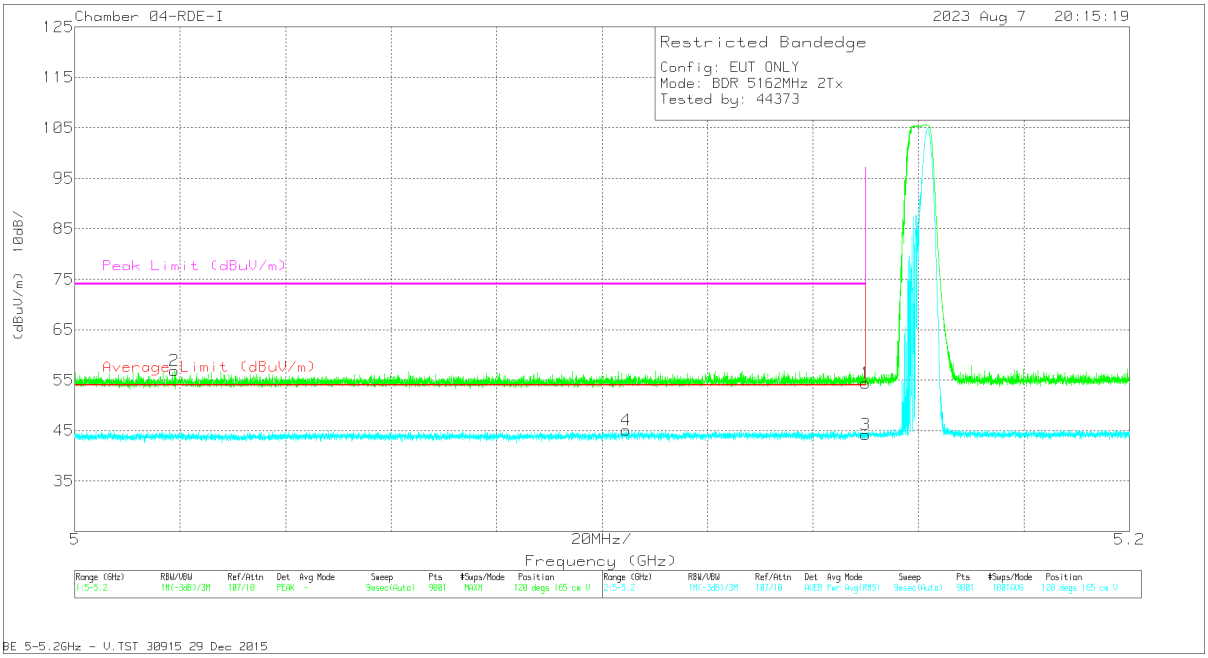
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	38.61	Pk	34.2	-17.4	55.41	-	-	74	-18.59	133	150	H
2	* 5.102266	40.65	Pk	34.1	-17.3	57.45	-	-	74	-16.55	133	150	H
3	* 5.15	27.22	RMS	34.2	-17.4	44.02	54	-9.98	-	-	133	150	H
4	* 5.130888	28.21	RMS	34.2	-17.3	45.11	54	-8.89	-	-	133	150	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT

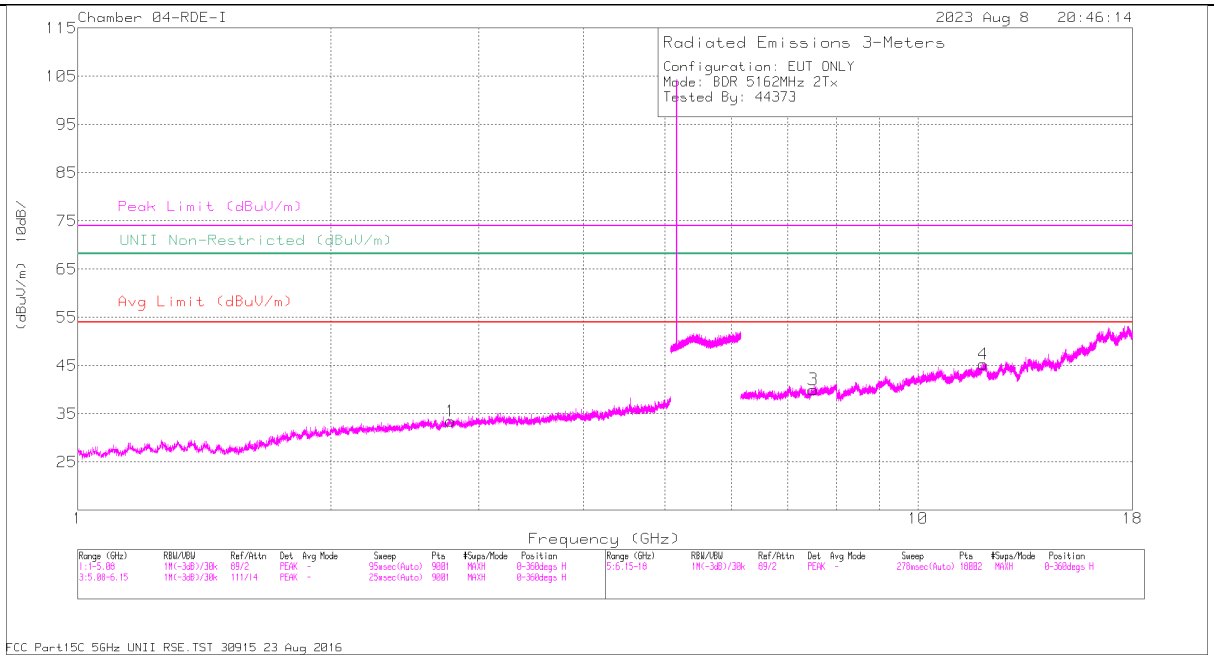


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	37.61	Pk	34.2	-17.4	54.41	-	-	74	-19.59	120	165	V
2	* 5.018911	39.81	Pk	34.1	-17	56.91	-	-	74	-17.09	120	165	V
3	* 5.15	27.38	RMS	34.2	-17.4	44.18	54	-9.82	-	-	120	165	V
4	* 5.10451	28.19	RMS	34.1	-17.2	45.09	54	-8.91	-	-	120	165	V

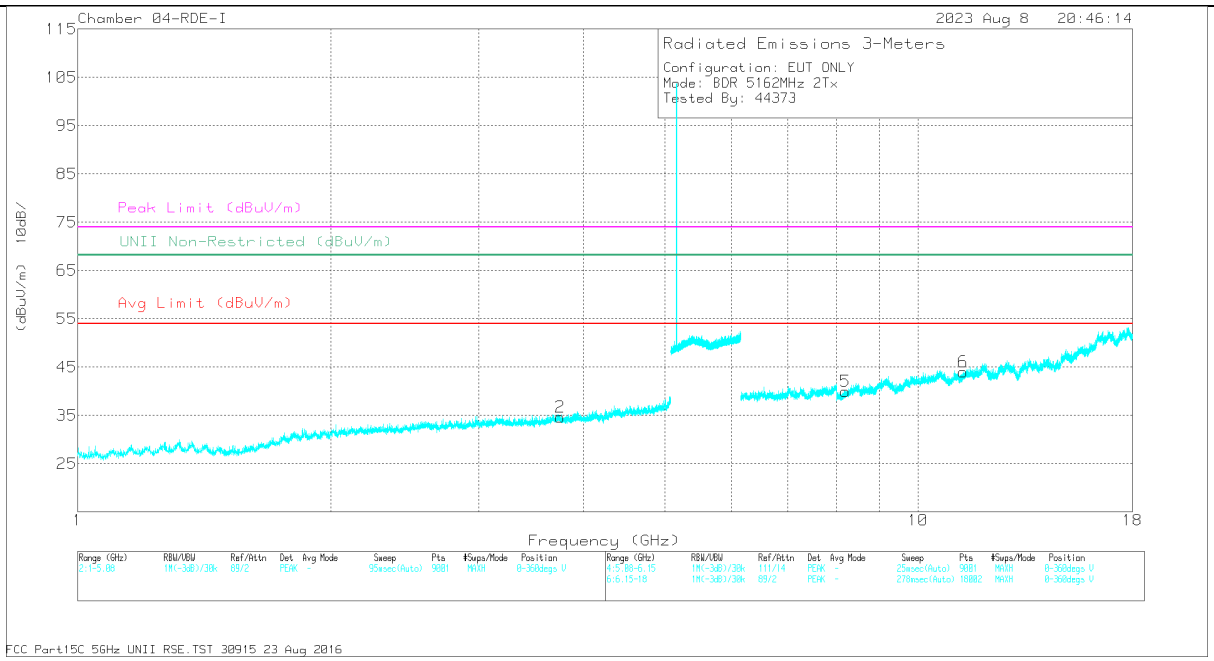
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

10.1.2. BDR, HIGH POWER, UNII-1, HARMONIC AND SPURIOUS IN THE 5.2 GHz BAND

LOW CHANNEL 5162MHz



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.77518	41.07	PK-U	32.4	-29.2	44.27	-	-	74	-29.73	360	101	H
	* 2.772773	29.07	ADR	32.4	-29.2	32.27	54	-21.73	-	-	360	101	H
2	* 3.753916	39.73	PK-U	33.2	-27.8	45.13	-	-	74	-28.87	360	200	V
	* 3.752957	27.86	ADR	33.2	-27.8	33.26	54	-20.74	-	-	360	200	V
3	* 7.5016	33.51	PK-U	35.6	-19.2	49.91	-	-	74	-24.09	360	101	H
	* 7.50201	22.19	ADR	35.6	-19.2	38.59	54	-15.41	-	-	360	101	H
4	* 11.965535	32.47	PK-U	38.6	-16.7	54.37	-	-	74	-19.63	360	101	H
	* 11.964287	21	ADR	38.6	-16.8	42.8	54	-11.2	-	-	360	101	H
5	* 8.193822	32.66	PK-U	35.9	-18.6	49.96	-	-	74	-24.04	360	101	V
	* 8.195792	20.65	ADR	35.9	-18.7	37.85	54	-16.15	-	-	360	101	V
6	* 11.32204	32.3	PK-U	37.8	-16.9	53.2	-	-	74	-20.8	360	200	V
	* 11.325327	20.81	ADR	37.8	-16.9	41.71	54	-12.29	-	-	360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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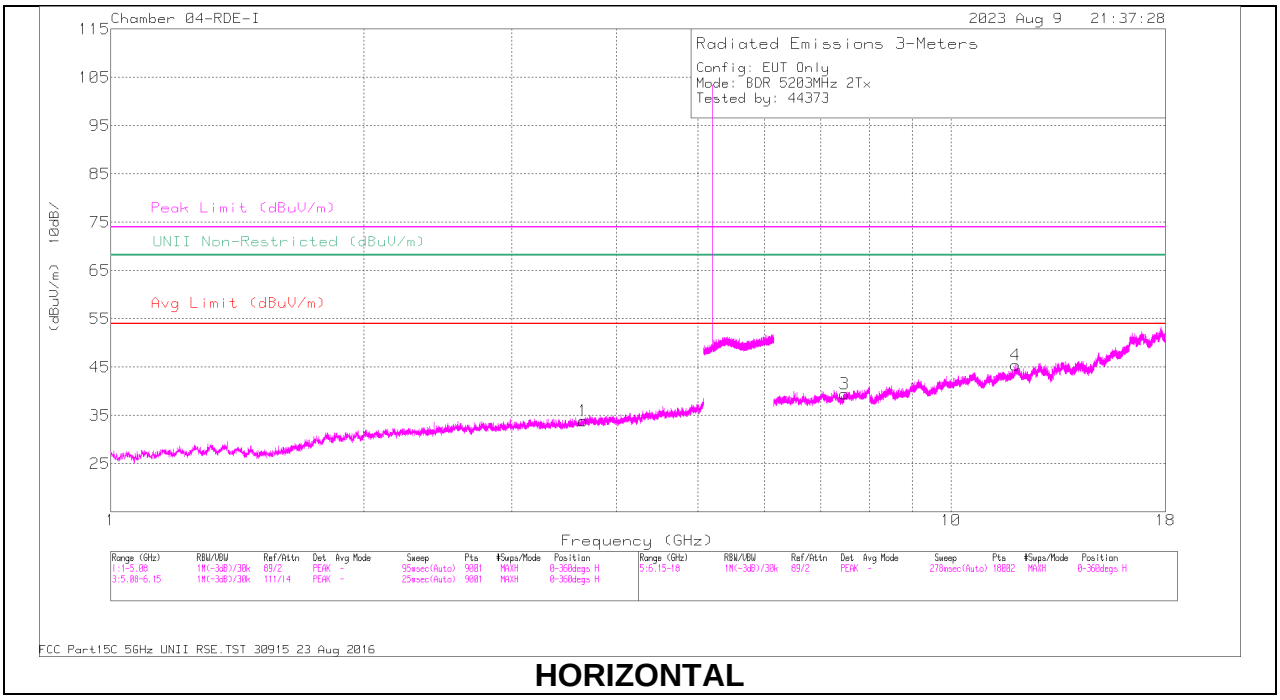
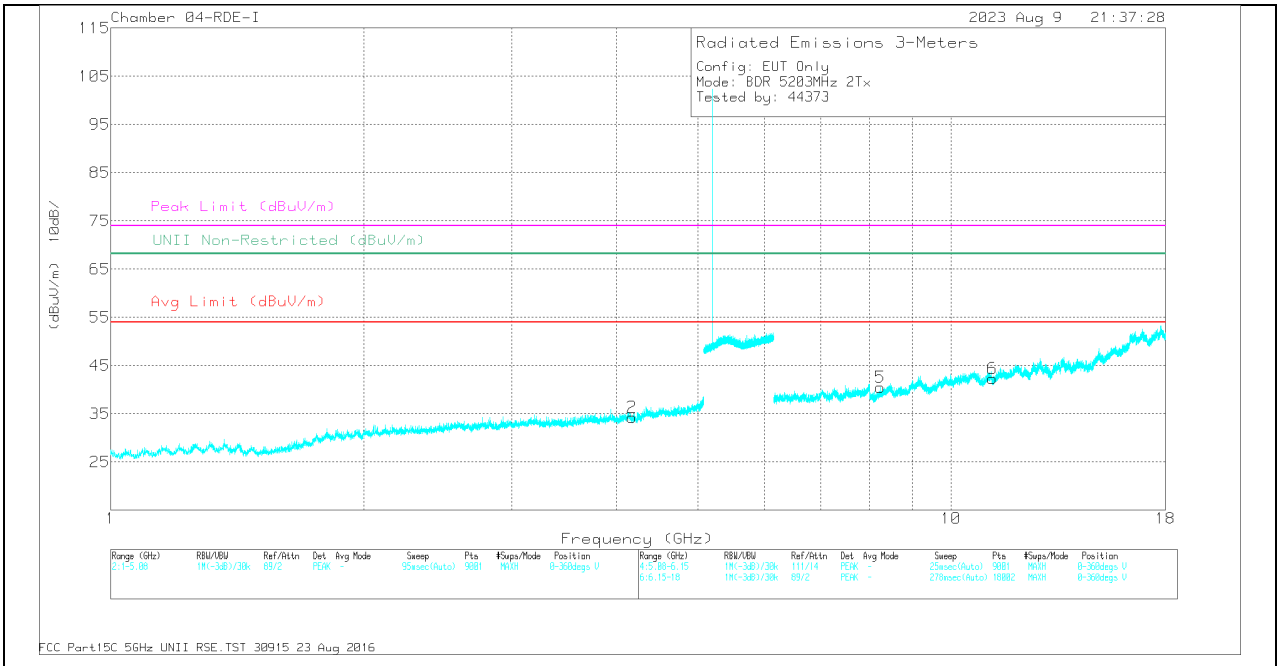
MID CHANNEL 5203MHz



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.650611	39.01	PK-U	33.1	-28.6	43.51	-	-	74	-30.49	360	199	H
	* 3.648979	27.98	ADR	33.1	-28.6	32.48	54	-21.52	-	-	360	199	H
2	* 4.171845	38.14	PK-U	33.5	-27.3	44.34	-	-	74	-29.66	360	199	V
	* 4.171836	26.55	ADR	33.5	-27.3	32.75	54	-21.25	-	-	360	199	V
3	* 7.465369	33.57	PK-U	35.6	-19.5	49.67	-	-	74	-24.33	360	101	H
	* 7.46435	21.85	ADR	35.6	-19.5	37.95	54	-16.05	-	-	360	101	H
4	* 11.938291	32.48	PK-U	38.6	-16.6	54.48	-	-	74	-19.52	360	101	H
	* 11.93838	20.94	ADR	38.6	-16.6	42.94	54	-11.06	-	-	360	101	H
5	* 8.235688	33.2	PK-U	35.9	-18.9	50.2	-	-	74	-23.8	360	200	V
	* 8.236143	21.05	ADR	35.9	-18.9	38.05	54	-15.95	-	-	360	200	V
6	* 11.201907	31.55	PK-U	37.7	-17	52.25	-	-	74	-21.75	360	101	V
	* 11.199747	20.02	ADR	37.7	-17	40.72	54	-13.28	-	-	360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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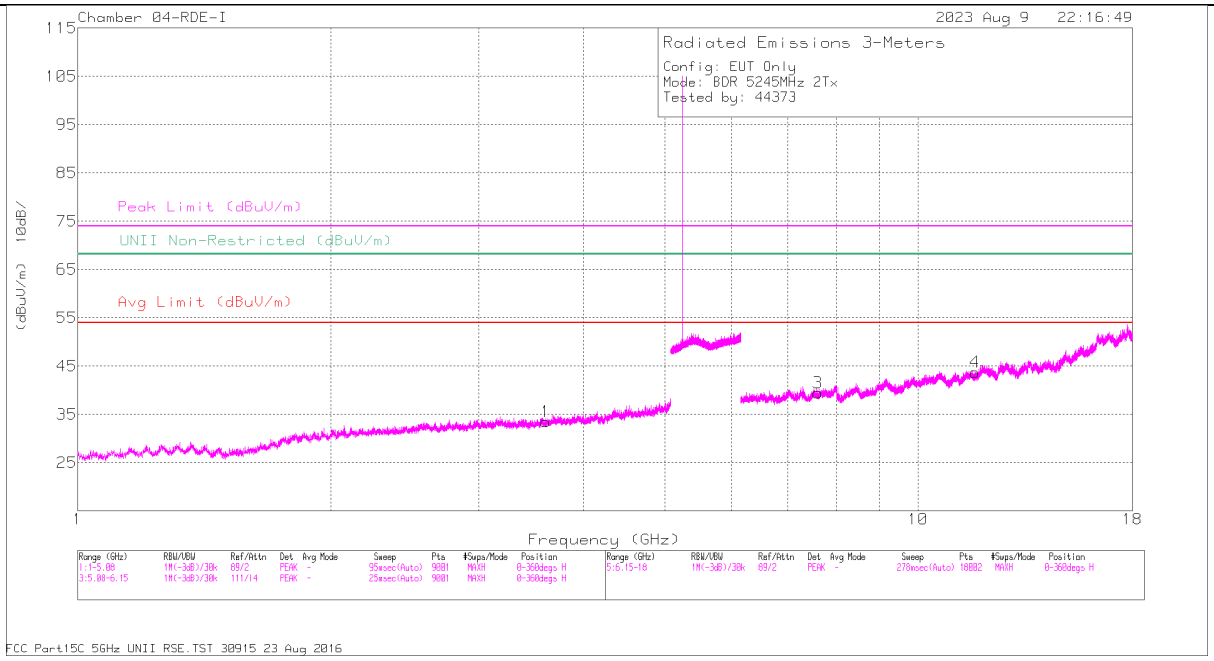
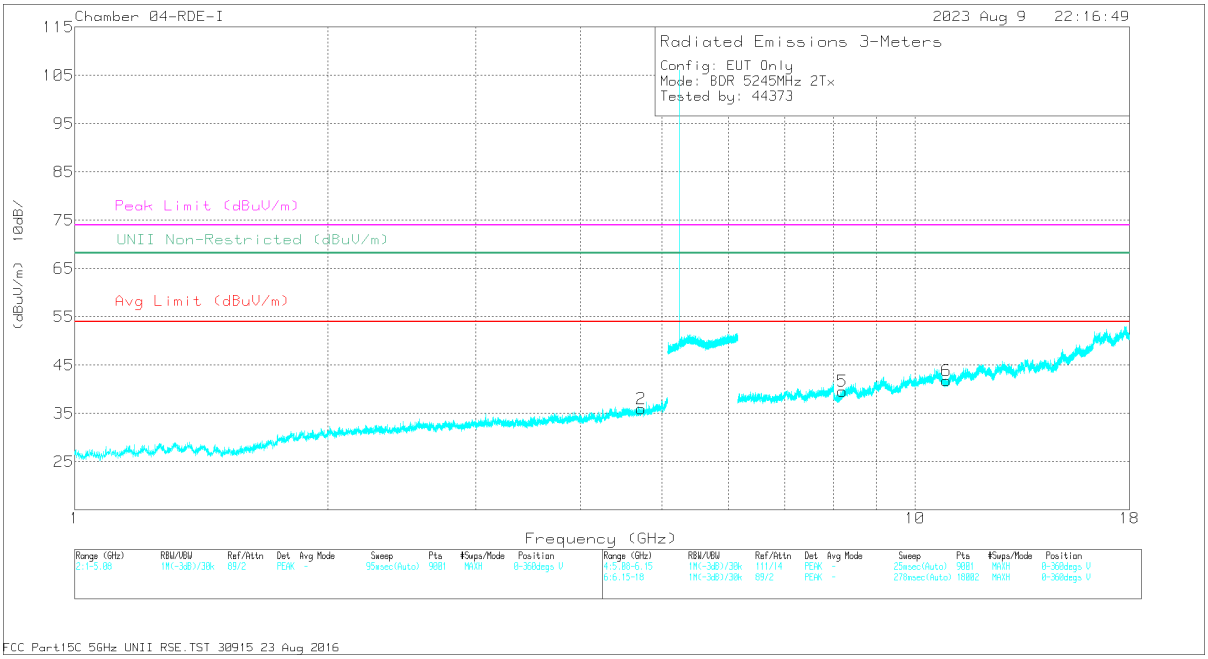
HIGH CHANNEL



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.609638	40.14	PK-U	33	-28.9	44.24	-	-	74	-29.76	360	101	H
	* 3.609784	28.11	ADR	33	-28.9	32.21	54	-21.79	-	-	360	101	H
2	* 4.723568	38.34	PK-U	34.3	-26.5	46.14	-	-	74	-27.86	360	101	V
	* 4.725635	26.79	ADR	34.3	-26.5	34.59	54	-19.41	-	-	360	101	V
3	* 7.5928	32.96	PK-U	35.7	-19.7	48.96	-	-	74	-25.04	360	200	H
	* 7.591777	21.44	ADR	35.7	-19.7	37.44	54	-16.56	-	-	360	200	H
4	* 11.707109	32.43	PK-U	38.3	-16.7	54.03	-	-	74	-19.97	360	101	H
	* 11.704309	20.52	ADR	38.3	-16.8	42.02	54	-11.98	-	-	360	101	H
5	* 8.201466	31.84	PK-U	35.9	-18.7	49.04	-	-	74	-24.96	360	101	V
	* 8.199391	20.51	ADR	35.9	-18.8	37.61	54	-16.39	-	-	360	101	V
6	* 10.909726	31.09	PK-U	37.6	-16.7	51.99	-	-	74	-22.01	360	200	V
	* 10.908126	19.42	ADR	37.6	-16.7	40.32	54	-13.68	-	-	360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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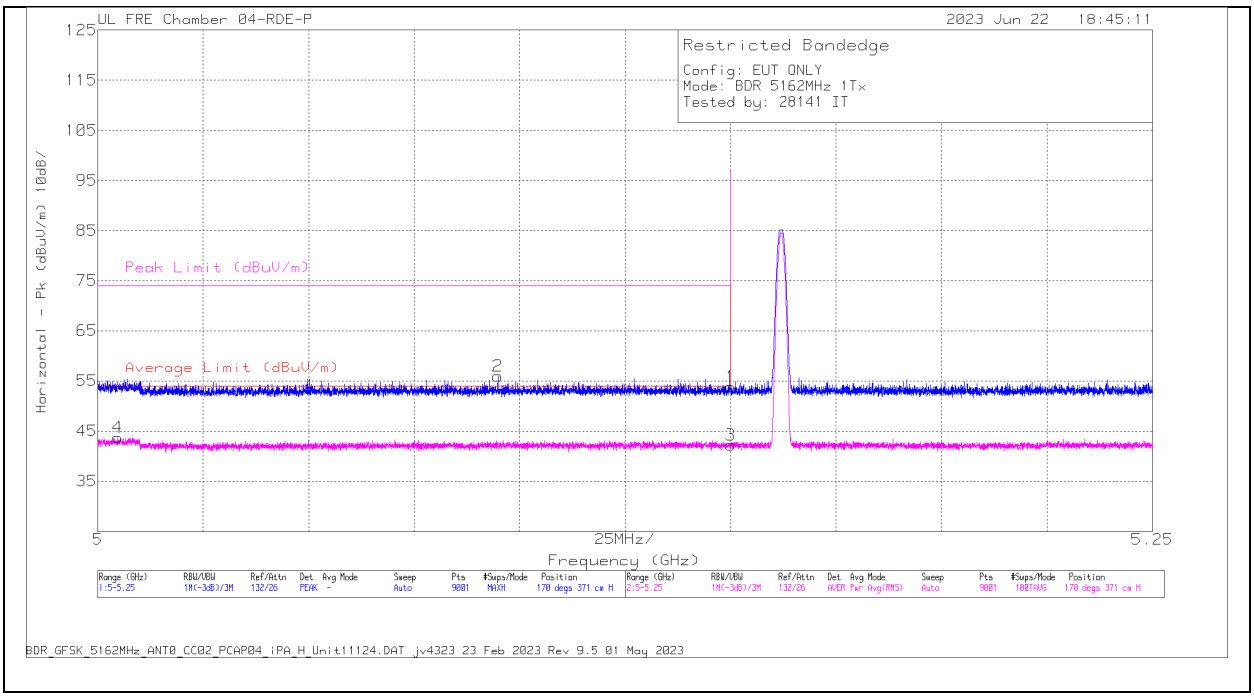
10.1.3 BDR, LOW POWER UNII-1 BANDEDGE

ANT 6

Low Channel

HORIZONTAL RESULT

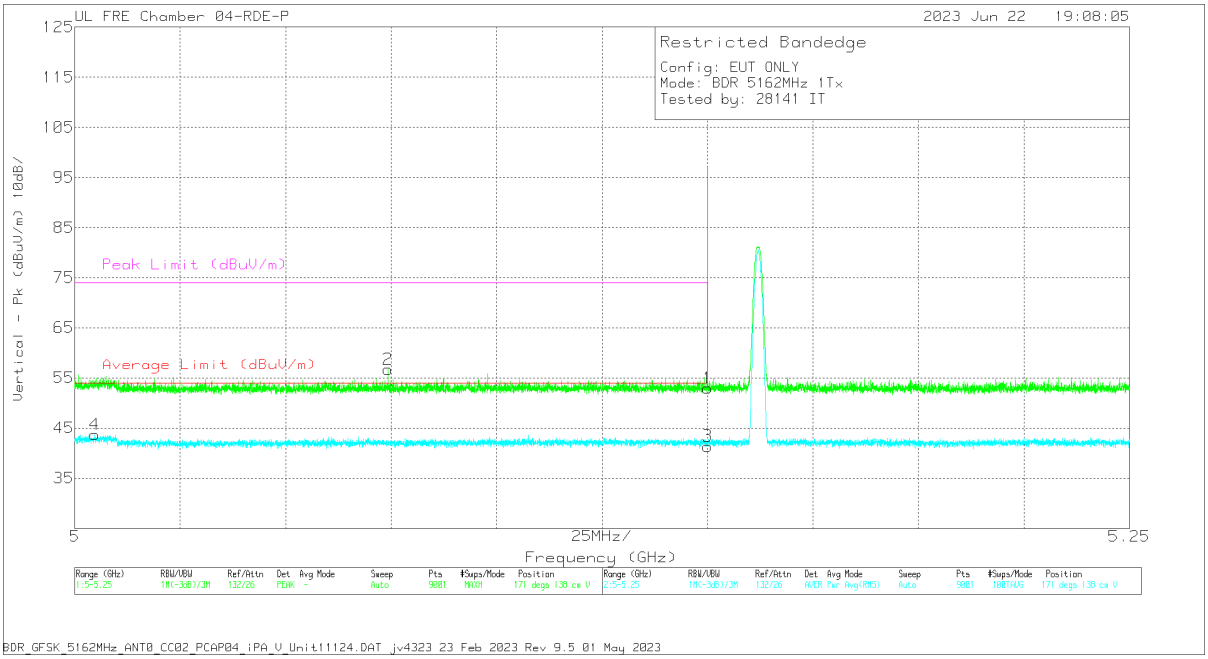


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.00475	48.41	RMS	33.9	-38.6	43.71	54	-10.29	-	-	170	371	H
2	5.094834	60.61	Pk	34	-38.67	55.94	-	-	74	-18.06	170	371	H
1	5.15	58.23	Pk	34.1	-38.51	53.82	-	-	74	-20.18	170	371	H
3	5.15	46.65	RMS	34.1	-38.51	42.24	54	-11.76	-	-	170	371	H

Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



Trace Markers

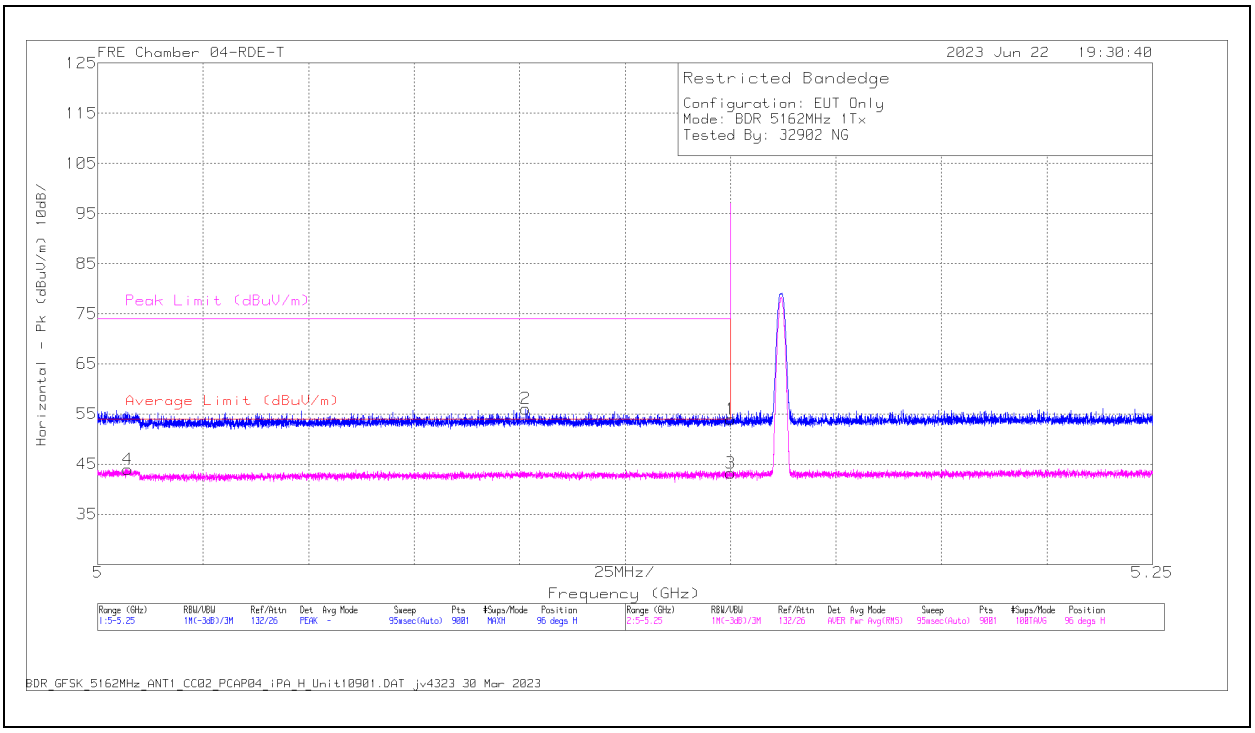
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.004694	48.39	RMS	33.9	-38.6	43.69	54	-10.31	-	-	171	138	V
2	5.074251	61.41	Pk	34	-38.66	56.75	-	-	74	-17.25	171	138	V
1	5.15	57.34	Pk	34.1	-38.51	52.93	-	-	74	-21.07	171	138	V
3	5.15	45.81	RMS	34.1	-38.51	41.4	54	-12.6	-	-	171	138	V

Pk - Peak detector
RMS - RMS detection

ANT 5

Low Channel

HORIZONTAL RESULT

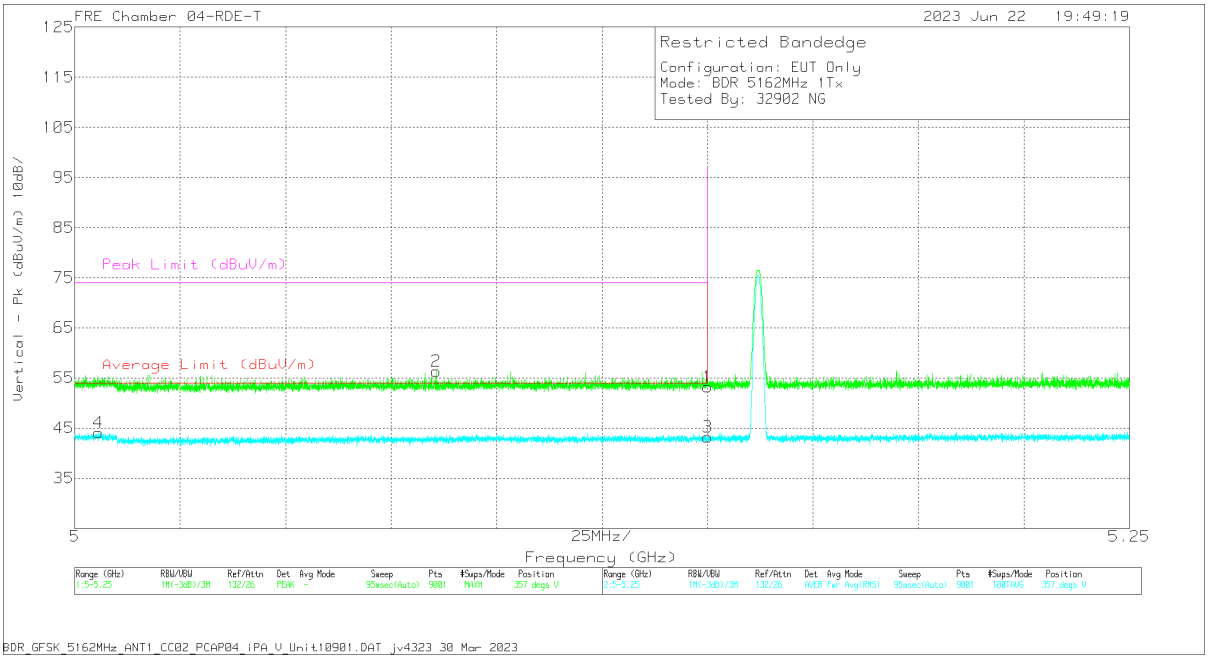


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	55.66	Pk	34.2	-35.9	53.96	-	-	74	-20.04	96	221	H
2	* 5.101473	57.99	Pk	34.1	-36.05	56.04	-	-	74	-17.96	96	221	H
3	* 5.15	44.87	RMS	34.2	-35.9	43.17	54	-10.83	-	-	96	221	H
4	* 5.007139	46.37	RMS	34	-36.36	44.01	54	-9.99	-	-	96	221	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



Trace Markers

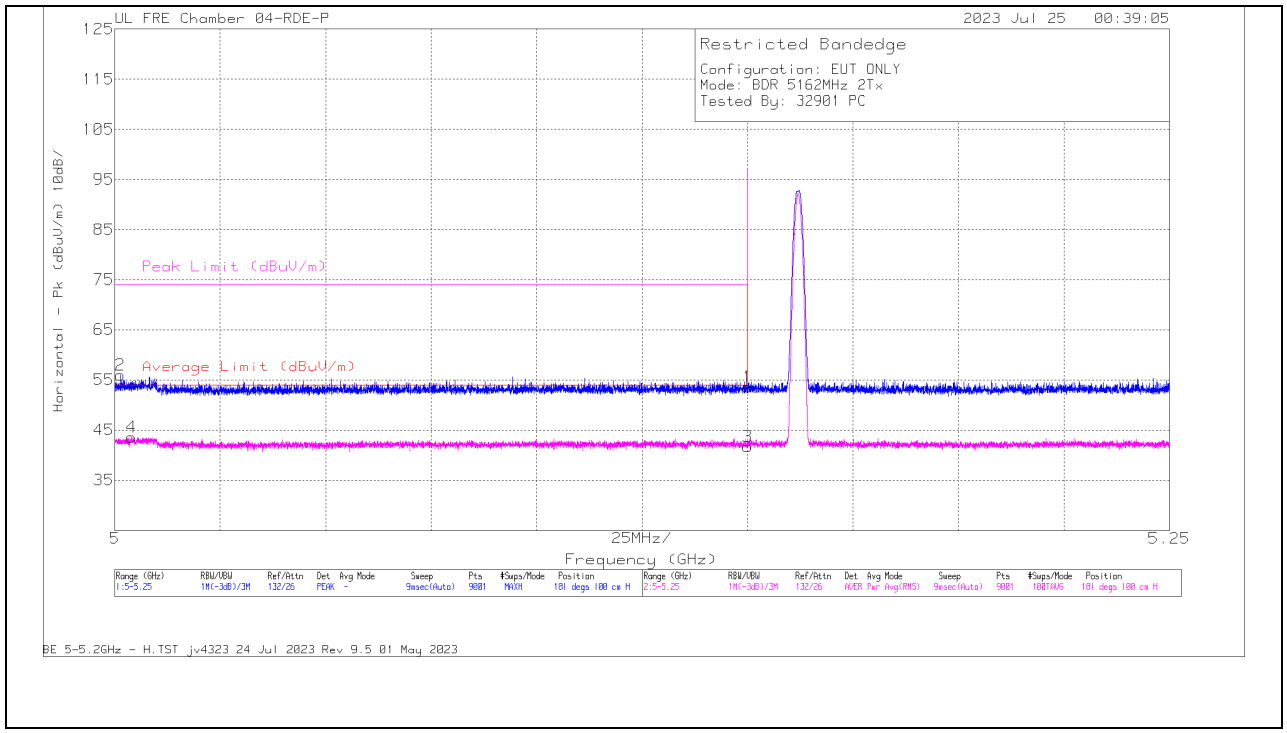
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	54.88	Pk	34.2	-35.9	53.18	-	-	74	-20.82	357	327	V
2	* 5.085667	58.35	Pk	34.1	-36.13	56.32	-	-	74	-17.68	357	327	V
3	* 5.15	44.94	RMS	34.2	-35.9	43.24	54	-10.76	-	-	357	327	V
4	* 5.005583	46.48	RMS	34	-36.37	44.11	54	-9.89	-	-	357	327	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

2TX Antenna 6 + Antenna 5 TXBF MODE

BANDEDGE (LOW CHANNEL)

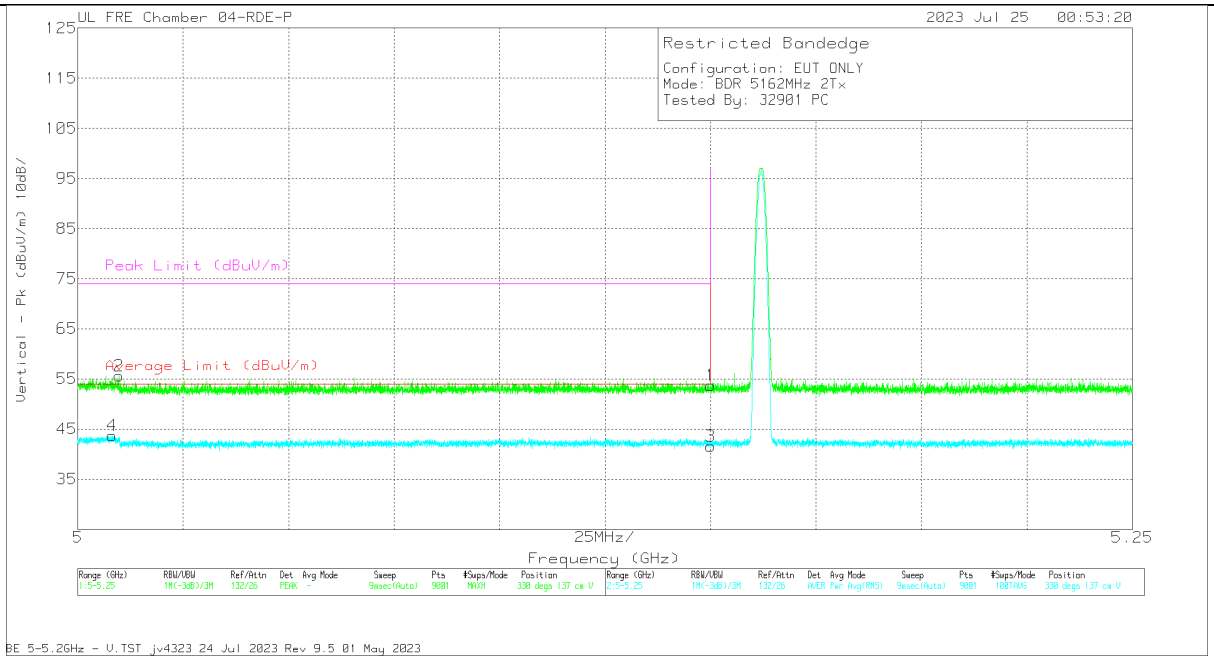
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.001278	60.74	Pk	33.9	0	-38.64	56	-	-	74	-18	181	100	H
4	5.004028	48.28	RMS	33.9	0	-38.61	43.57	54	-10.43	-	-	181	100	H
1	5.15	58.05	Pk	34.1	0	-38.51	53.64	-	-	74	-20.36	181	100	H
3	5.15	46.15	RMS	34.1	0	-38.51	41.74	54	-12.26	-	-	181	100	H

Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT

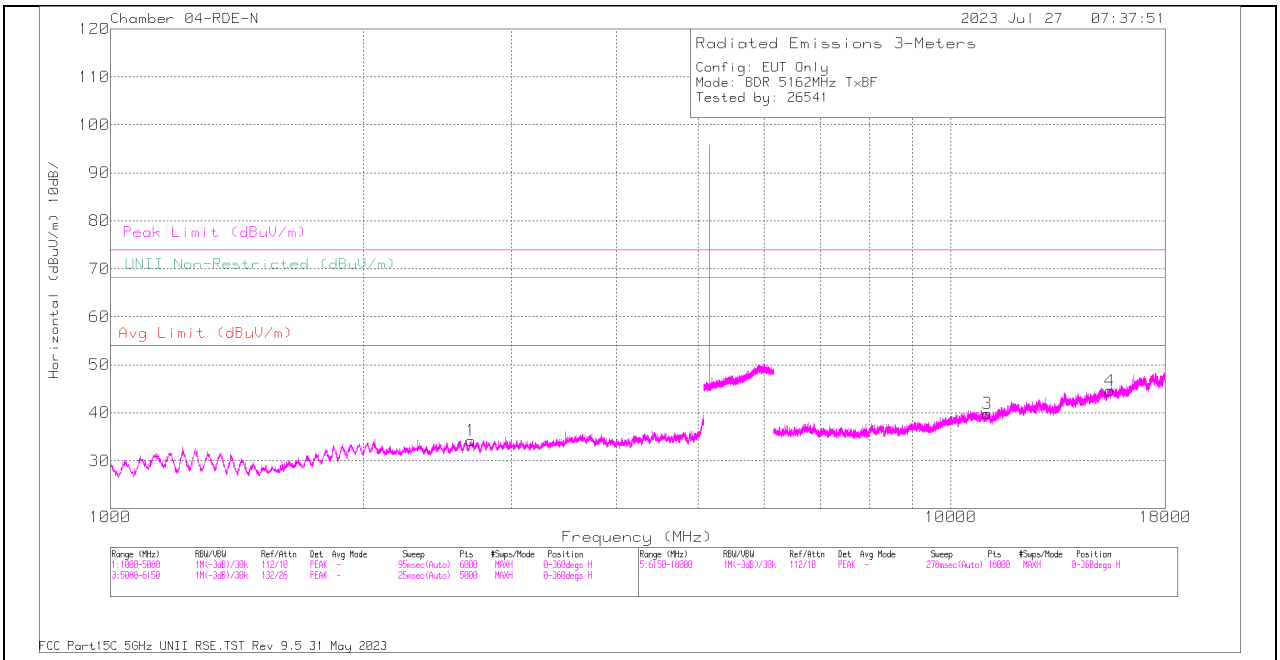


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.008083	48.38	RMS	33.9	0	-38.56	43.72	54	-10.28	-	-	330	137	V
2	5.009722	60.34	Pk	33.9	0	-38.63	55.61	-	-	74	-18.39	330	137	V
1	5.15	58.08	Pk	34.1	0	-38.51	53.67	-	-	74	-20.33	330	137	V
3	5.15	46	RMS	34.1	0	-38.51	41.59	54	-12.41	-	-	330	137	V

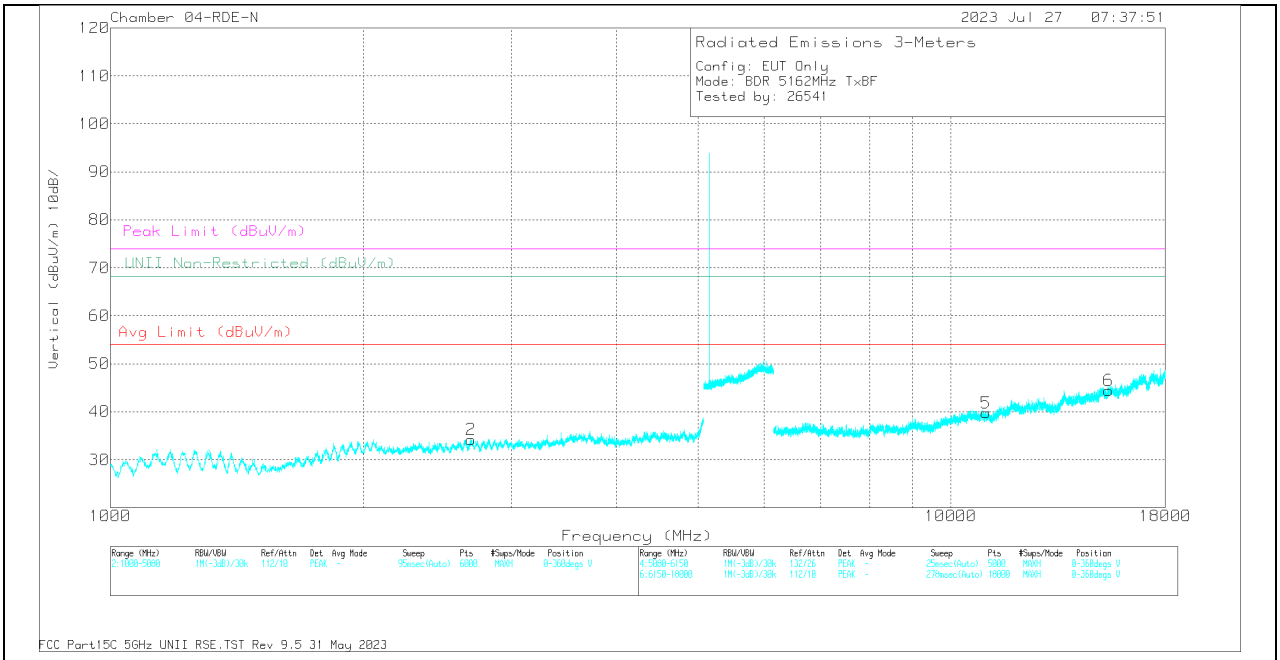
Pk - Peak detector
RMS - RMS detection

10.1.4 BDR, LOW POWER, UNII-1, HARMONIC AND SPURIOUS TX ABOVE 1 GHz IN THE 5.2 GHz BAND

LOW CHANNEL



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80430 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2686.687	63.2	PK-U	32.3	-51.45	44.05	-	-	74	-29.95	360	100	H
	* 2686.635	51.63	ADR	32.3	-51.45	32.48	54	-21.52	-	-	360	100	H
2	* 2685.778	63.56	PK-U	32.3	-51.43	44.43	-	-	74	-29.57	360	201	V
	* 2687.158	51.72	ADR	32.3	-51.46	32.56	54	-21.44	-	-	360	201	V
3	* 11040.547	52.63	PK-U	37.8	-41.17	49.26	-	-	74	-24.74	360	100	H
	* 11042.19	41.02	ADR	37.8	-41.13	37.69	54	-16.31	-	-	360	100	H
4	* 15451.422	48.66	PK-U	41	-35.7	53.96	-	-	74	-20.04	360	100	H
	* 15452.531	37.05	ADR	41	-35.59	42.46	54	-11.54	-	-	360	100	H
5	* 11010.742	52.74	PK-U	37.9	-41.25	49.39	-	-	74	-24.61	360	201	V
	* 11009.796	41.35	ADR	37.8	-41.12	38.03	54	-15.97	-	-	360	201	V
6	* 15402.83	48.99	PK-U	40.8	-35.88	53.91	-	-	74	-20.09	360	200	V
	* 15402.395	37.45	ADR	40.8	-35.91	42.34	54	-11.66	-	-	360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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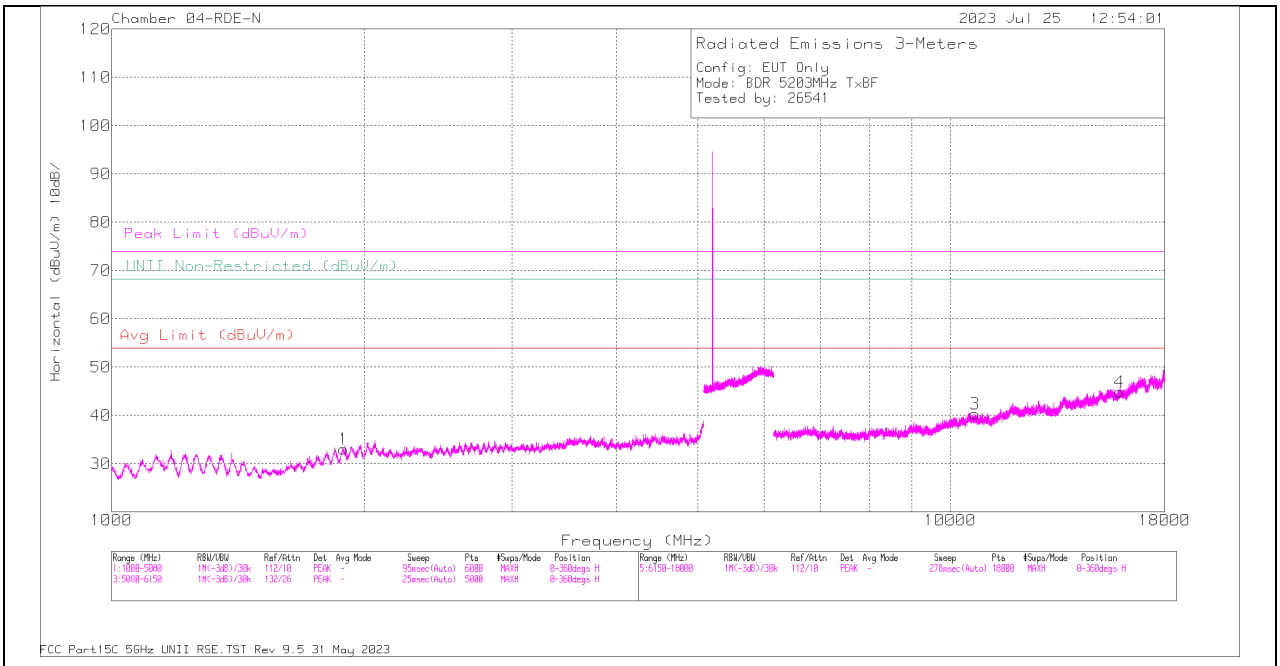
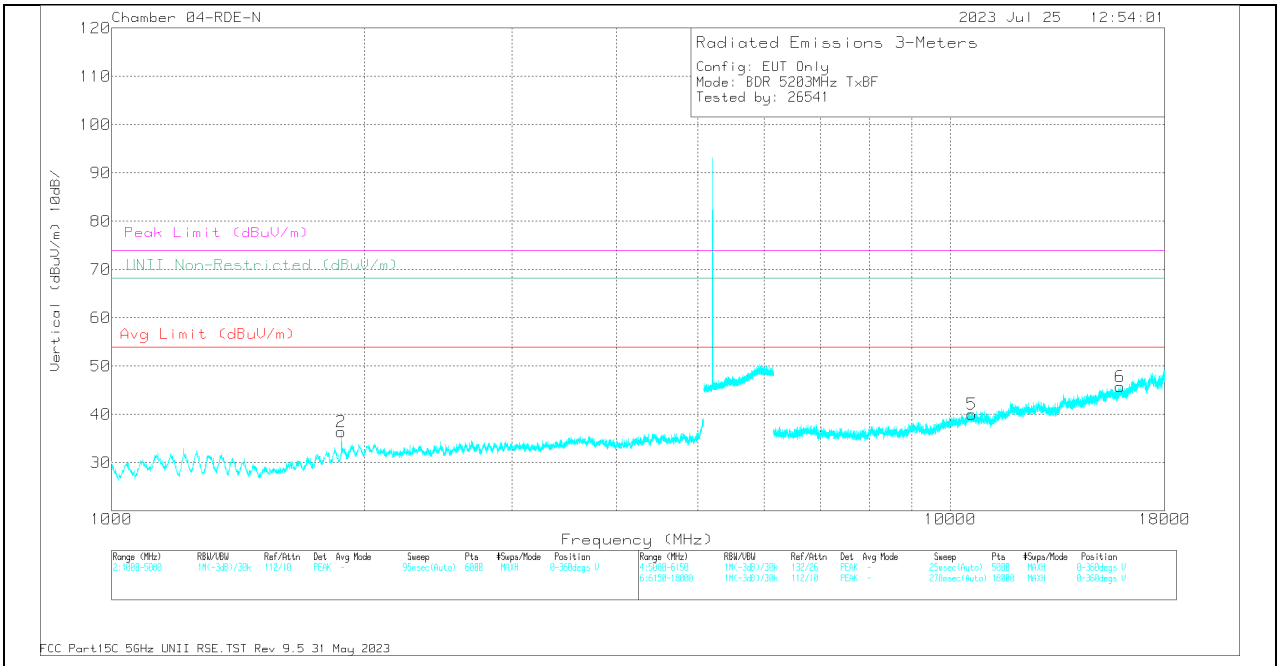
MID CHANNEL 5203MHz



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80430 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 10692.183	51.6	PK-U	37.9	-39.81	49.69	-	-	74	-24.31	-	-	0	100	H
	* 10694.542	40.09	ADR	37.9	-39.83	38.16	54	-15.84	-	-	-	-	0	100	H
4	* 15898.21	48.3	PK-U	41.1	-35.48	53.92	-	-	74	-20.08	-	-	0	100	H
	* 15895.75	36.9	ADR	41.1	-35.52	42.48	54	-11.52	-	-	-	-	0	100	H
6	* 15943.575	48.27	PK-U	41.2	-34.98	54.49	-	-	74	-19.51	-	-	0	200	V
	* 15940.424	36.88	ADR	41.2	-34.95	43.13	54	-10.87	-	-	-	-	0	200	V
2	1878.94	65.87	PK-U	31.3	-53.34	43.83	-	-	-	-	68.2	-24.37	0	201	V
1	1889.533	65.33	PK-U	31.4	-53.26	43.47	-	-	-	-	68.2	-24.73	0	100	H
5	10596.729	51.72	PK-U	37.8	-40.36	49.16	-	-	-	-	68.2	-19.04	0	201	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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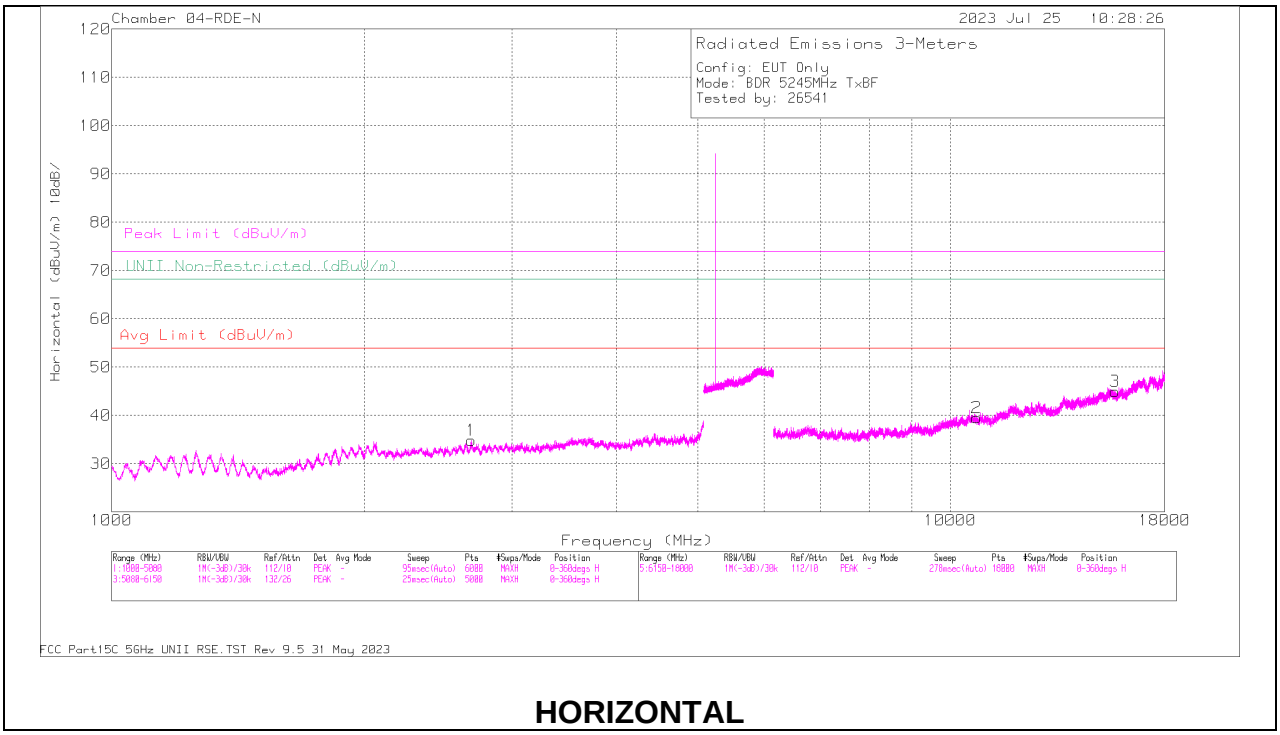
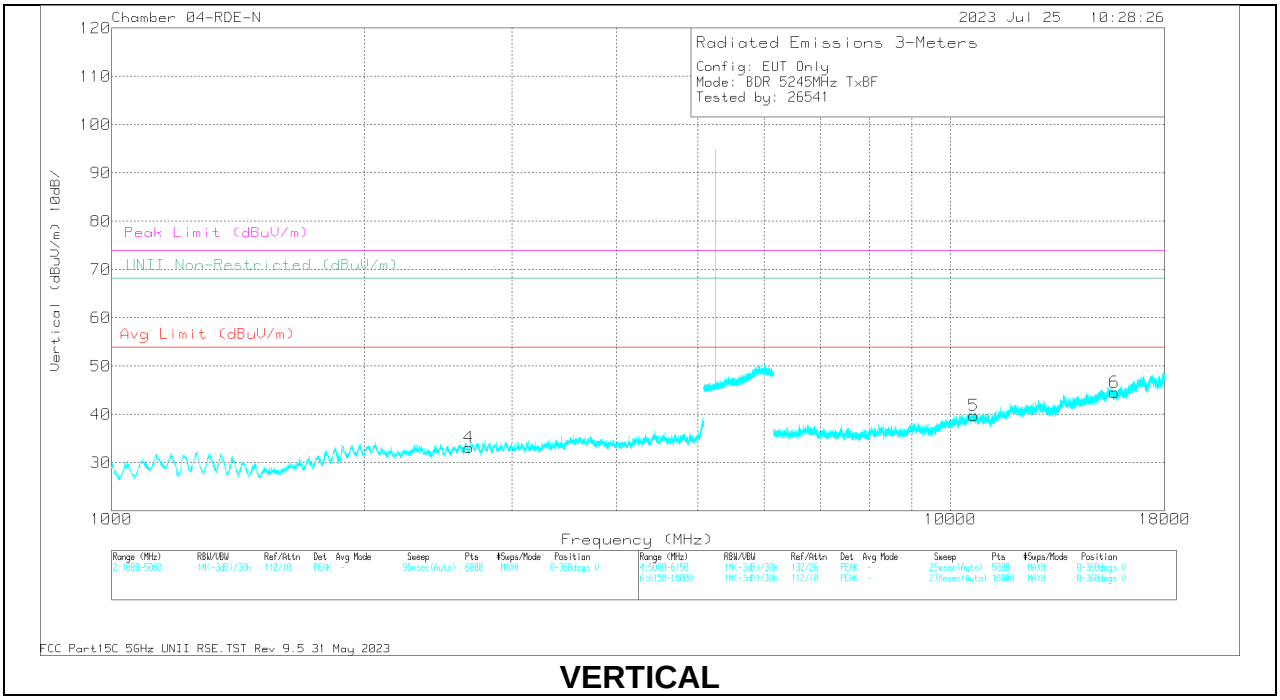
HIGH CHANNEL



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80430 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2686.55	63.1	PK-U	32.3	-51.44	43.96	-	-	74	-30.04	360	100	H
	* 2686.924	51.61	ADR	32.3	-51.46	32.45	54	-21.55	-	-	360	100	H
4	* 2663.925	62.6	PK-U	32.3	-51.29	43.61	-	-	74	-30.39	360	201	V
	* 2666.395	50.44	ADR	32.3	-51.39	31.35	54	-22.65	-	-	360	201	V
2	* 10744.293	52.27	PK-U	37.7	-40.52	49.45	-	-	74	-24.55	360	100	H
	* 10743.783	40.64	ADR	37.7	-40.49	37.85	54	-16.15	-	-	360	100	H
3	* 15720.105	49.39	PK-U	40.8	-35.84	54.35	-	-	74	-19.65	360	100	H
	* 15720.878	38.08	ADR	40.9	-35.62	43.36	54	-10.64	-	-	360	100	H
5	* 10651.721	51.54	PK-U	37.8	-40.22	49.12	-	-	74	-24.88	360	201	V
	* 10652.853	40.16	ADR	37.7	-40.21	37.65	54	-16.35	-	-	360	201	V
6	* 15681.248	49.25	PK-U	40.8	-35.16	54.89	-	-	74	-19.11	360	200	V
	* 15680.809	37.52	ADR	40.8	-35.21	43.11	54	-10.89	-	-	360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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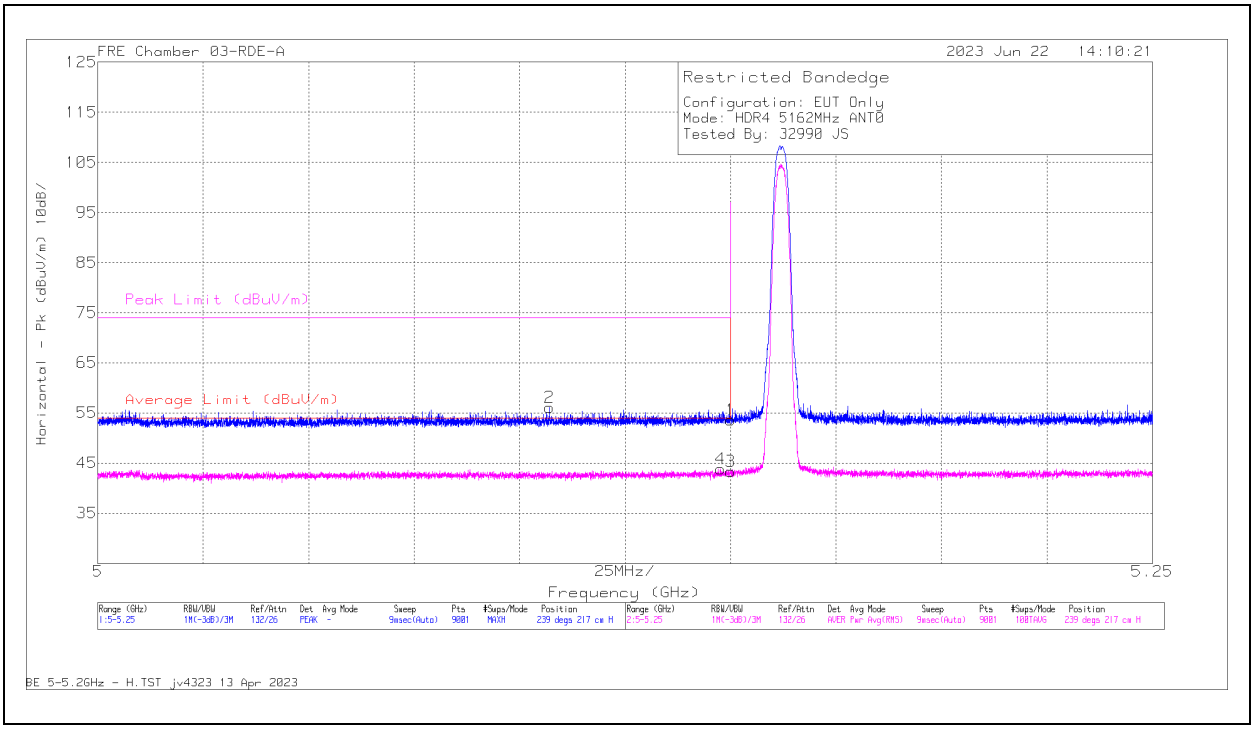
10.1.5 HDR4, HIGH POWER UNII-1 BANDEDGE

ANT 6

BANDEDGE (LOW CHANNEL)

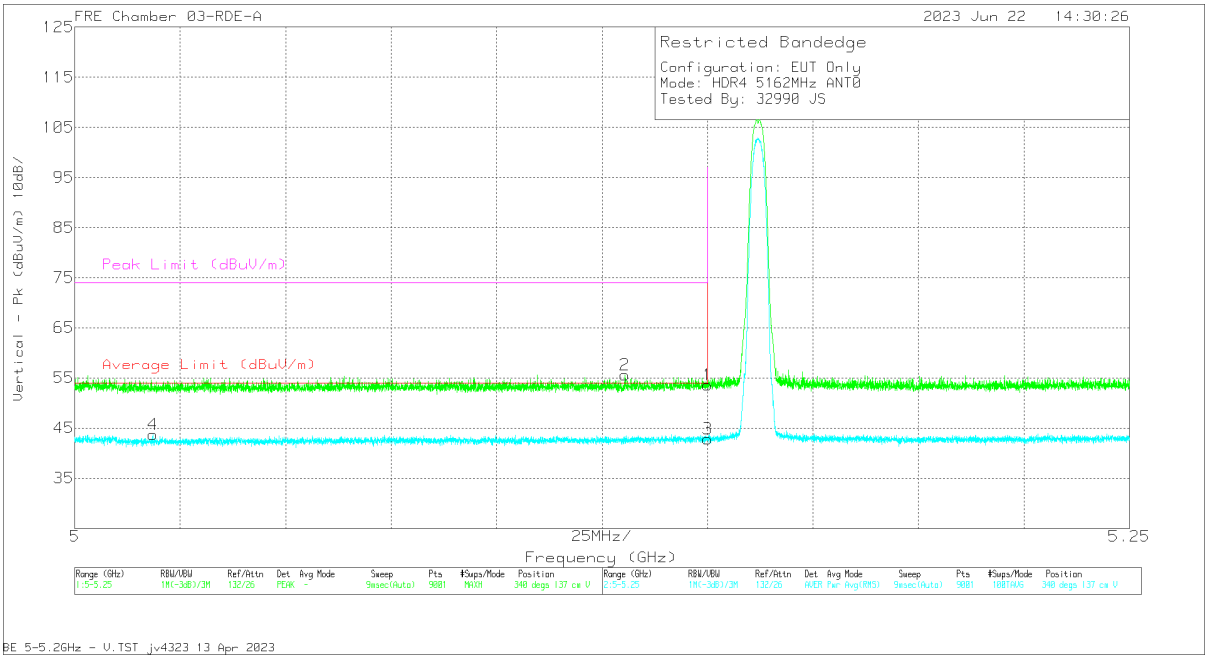
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.69	Pk	34.6	0	-38.69	53.6	-	-	74	-20.4	239	217	H
2	* 5.107056	60.5	Pk	34.5	0	-38.85	56.15	-	-	74	-17.85	239	217	H
3	* 5.15	47.46	RMS	34.6	0	-38.69	43.37	54	-10.63	-	-	239	217	H
4	* 5.147668	47.97	RMS	34.6	0	-38.76	43.81	54	-10.19	-	-	239	217	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.67	Pk	34.6	0	-38.69	53.58	-	-	74	-20.42	340	137	V
2	* 5.130445	59.94	Pk	34.5	0	-38.87	55.57	-	-	74	-18.43	340	137	V
3	* 5.15	46.94	RMS	34.6	0	-38.69	42.85	54	-11.15	-	-	340	137	V
4	* 5.0185	48.27	RMS	34.4	0	-38.94	43.73	54	-10.27	-	-	340	137	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

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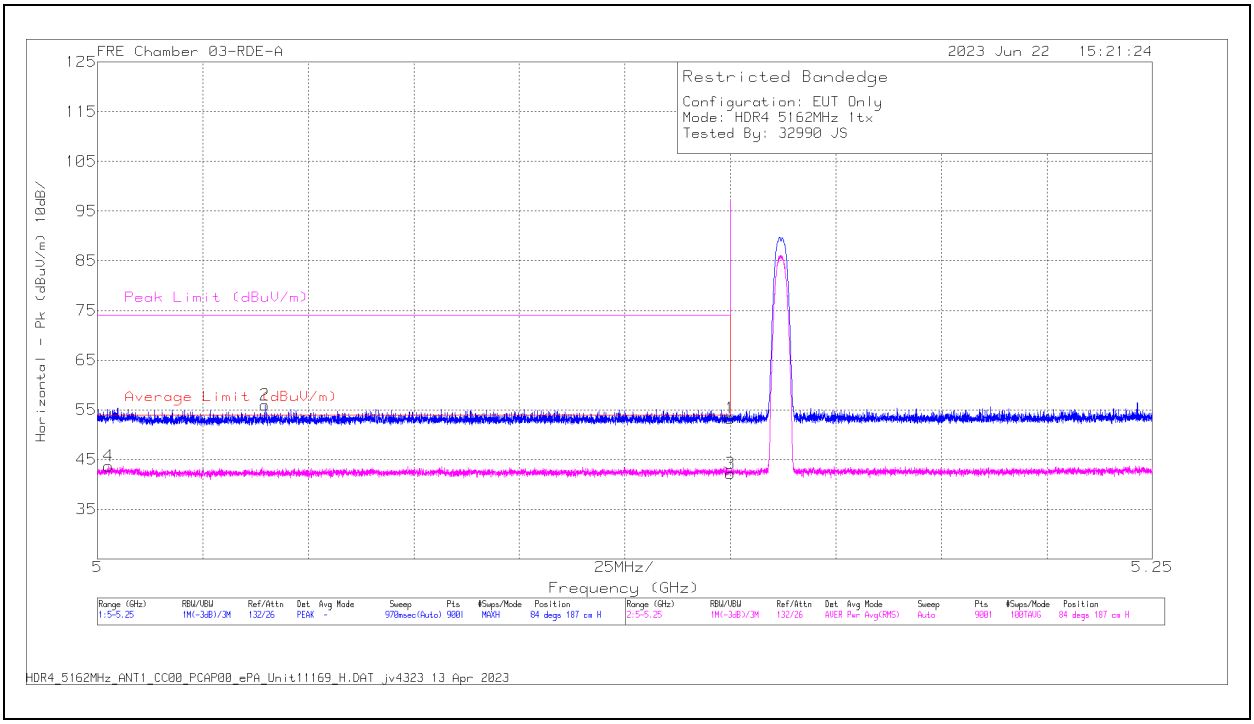
ANT 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

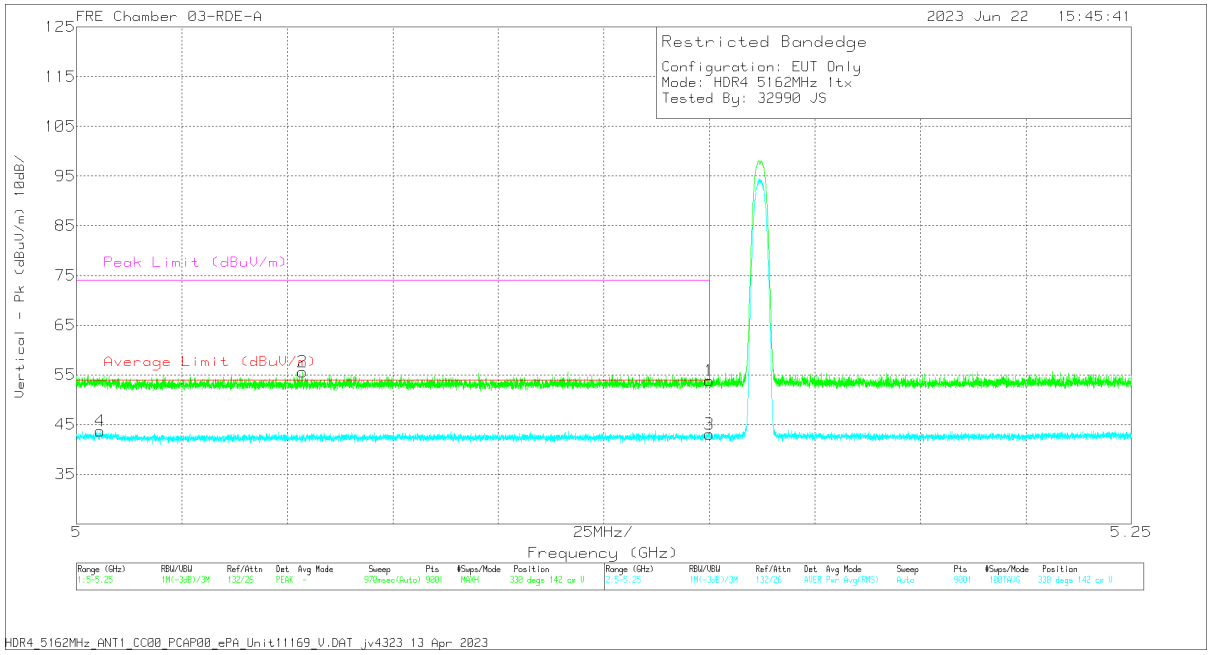


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.43	Pk	34.6	0	-38.69	53.34	-	-	74	-20.66	84	187	H
2	* 5.039695	60.5	Pk	34.4	0	-38.95	55.95	-	-	74	-18.05	84	187	H
3	* 5.15	46.31	RMS	34.6	0	-38.69	42.22	54	-11.78	-	-	84	187	H
4	* 5.002694	48.29	RMS	34.4	0	-38.98	43.71	54	-10.29	-	-	84	187	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



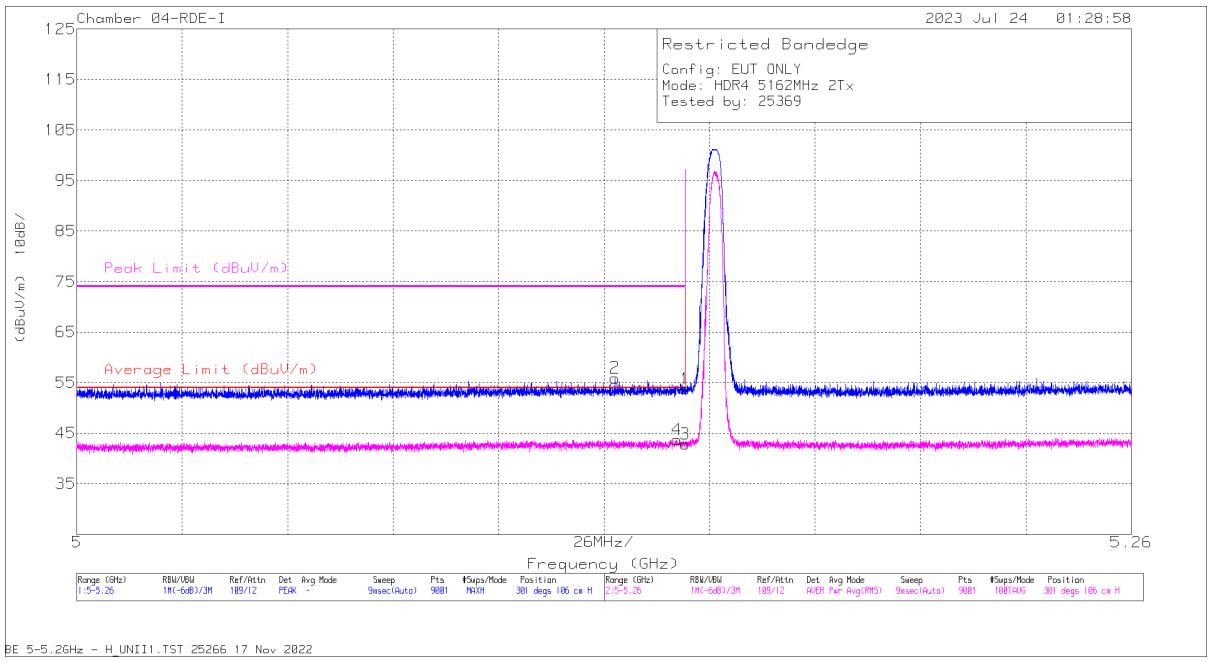
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.91	Pk	34.6	0	-38.69	53.82	-	-	74	-20.18	330	142	V
2	* 5.053584	60.21	Pk	34.4	0	-38.96	55.65	-	-	74	-18.35	330	142	V
3	* 5.15	47.14	RMS	34.6	0	-38.69	43.05	54	-10.95	-	-	330	142	V
4	* 5.005639	48.26	RMS	34.4	0	-38.94	43.72	54	-10.28	-	-	330	142	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

2TX Antenna 6 + Antenna 5 TXBF MODE

BANDEDGE (LOW CHANNEL)

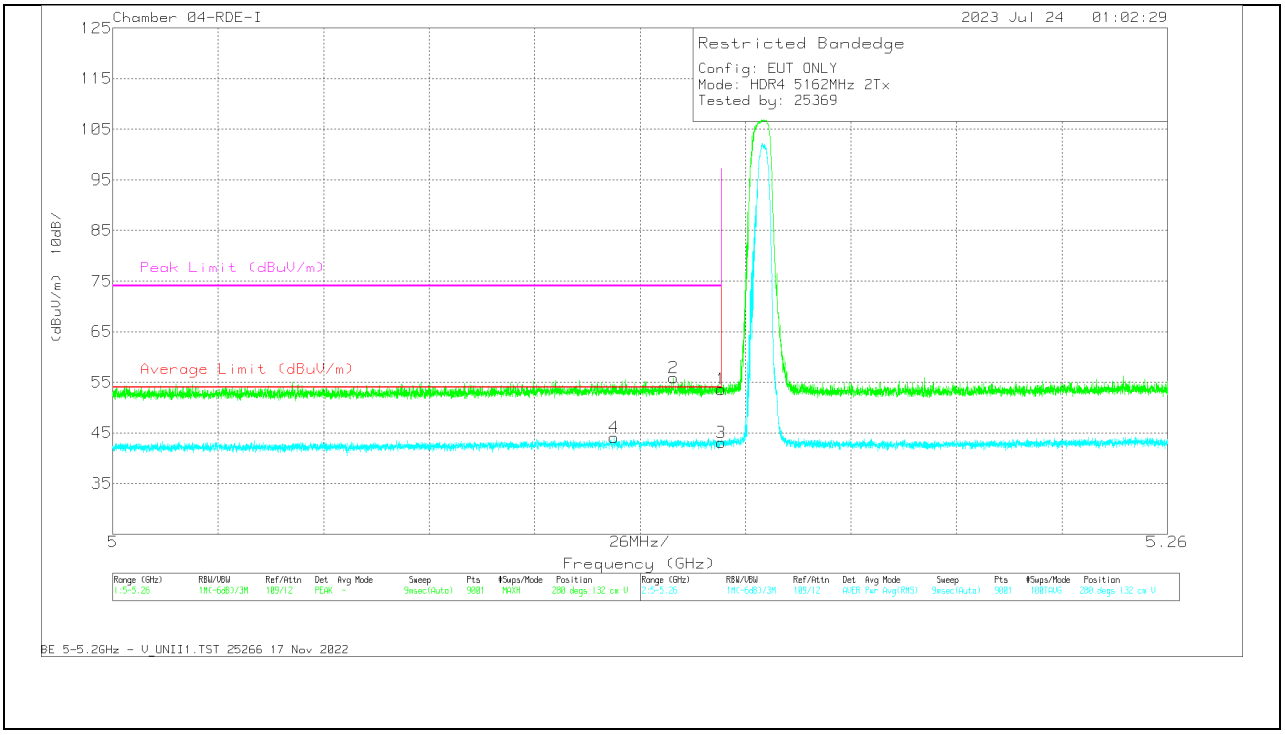
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	33.75	Pk	34.2	-14.2	53.75	-	-	74	-20.25	301	106	H
2	* 5.132687	35.94	Pk	34.2	-14.2	55.94	-	-	74	-18.06	301	106	H
3	* 5.15	22.89	RMS	34.2	-14.2	42.89	54	-11.11	-	-	301	106	H
4	* 5.147969	23.63	RMS	34.2	-14.1	43.73	54	-10.27	-	-	301	106	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT

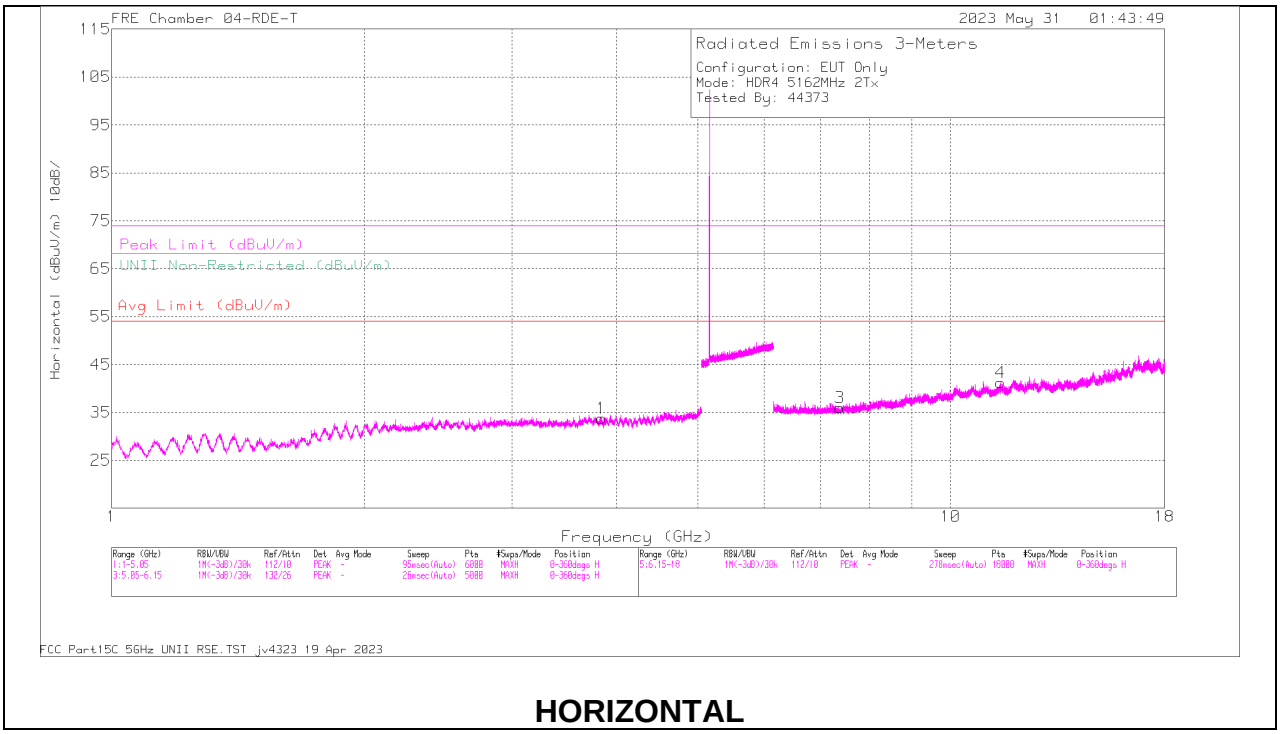


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	33.58	Pk	34.2	-14.2	53.58	-	-	74	-20.42	280	132	V
2	* 5.138292	35.85	Pk	34.2	-14.2	55.85	-	-	74	-18.15	280	132	V
3	* 5.15	23.05	RMS	34.2	-14.2	43.05	54	-10.95	-	-	280	132	V
4	* 5.123558	23.95	RMS	34.2	-14.1	44.05	54	-9.95	-	-	280	132	V

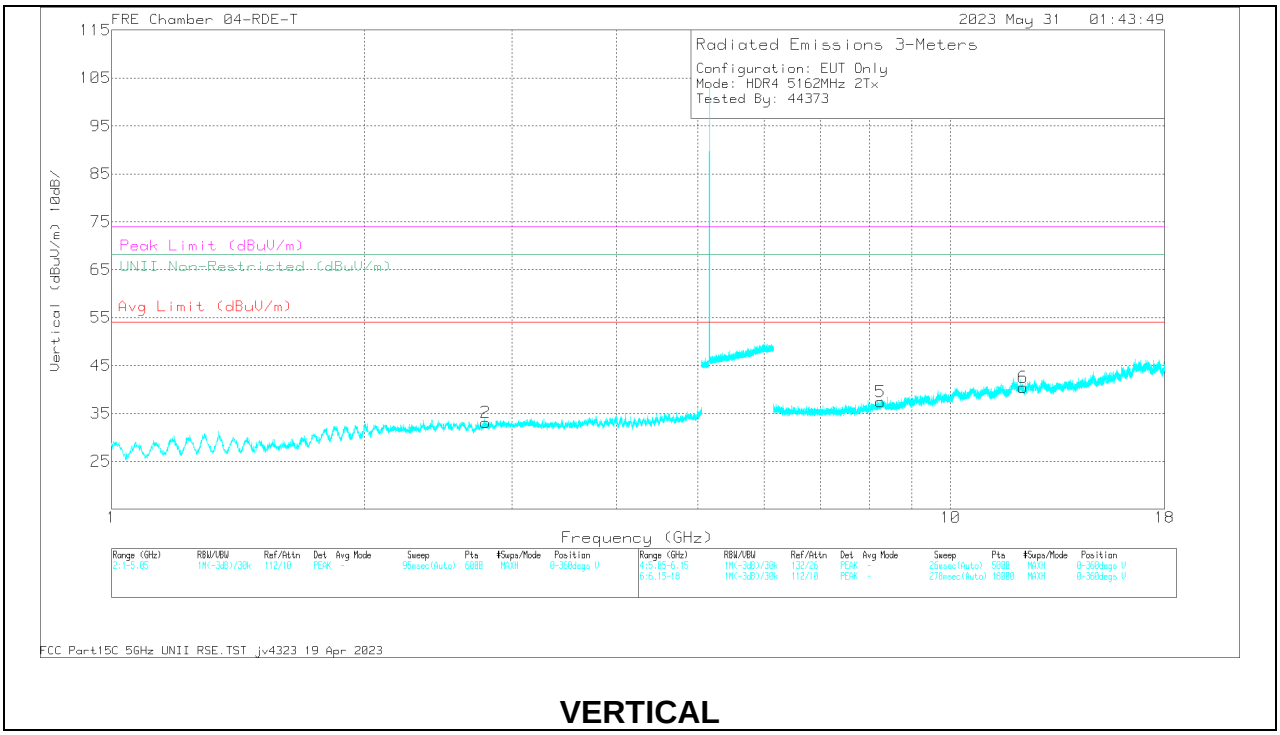
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

10.1.6 HDR4, HIGH POWER UNII-1 HARMONIC AND SPURIOUS IN THE 5.2 GHz BAND

LOW CHANNEL 5162MHz



HORIZONTAL



VERTICAL

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.833283	55.69	PK-U	33.4	-44.86	44.23	-	-	74	-29.77	0	101	H
	* 3.83332	43.46	ADR	33.4	-44.86	32	54	-22	-	-	0	101	H
2	* 2.791066	58.31	PK-U	32.3	-47.54	43.07	-	-	74	-30.93	0	198	V
	* 2.791546	46.75	ADR	32.3	-47.55	31.5	54	-22.5	-	-	0	198	V
3	* 7.380669	53.76	PK-U	35.7	-43.29	46.17	-	-	74	-27.83	0	101	H
	* 7.378745	42.14	ADR	35.7	-43.25	34.59	54	-19.41	-	-	0	101	H
4	* 11.479676	52.55	PK-U	38.1	-41.3	49.35	-	-	74	-24.65	0	198	H
	* 11.478184	41.06	ADR	38.1	-41.37	37.79	54	-16.21	-	-	0	198	H
5	* 8.254932	53.73	PK-U	35.9	-42.69	46.94	-	-	74	-27.06	0	101	V
	* 8.254938	42.16	ADR	35.9	-42.69	35.37	54	-18.63	-	-	0	101	V
6	* 12.206974	53.02	PK-U	38.8	-41.37	50.45	-	-	74	-23.55	0	198	V
	* 12.205828	41.42	ADR	38.8	-41.34	38.88	54	-15.12	-	-	0	198	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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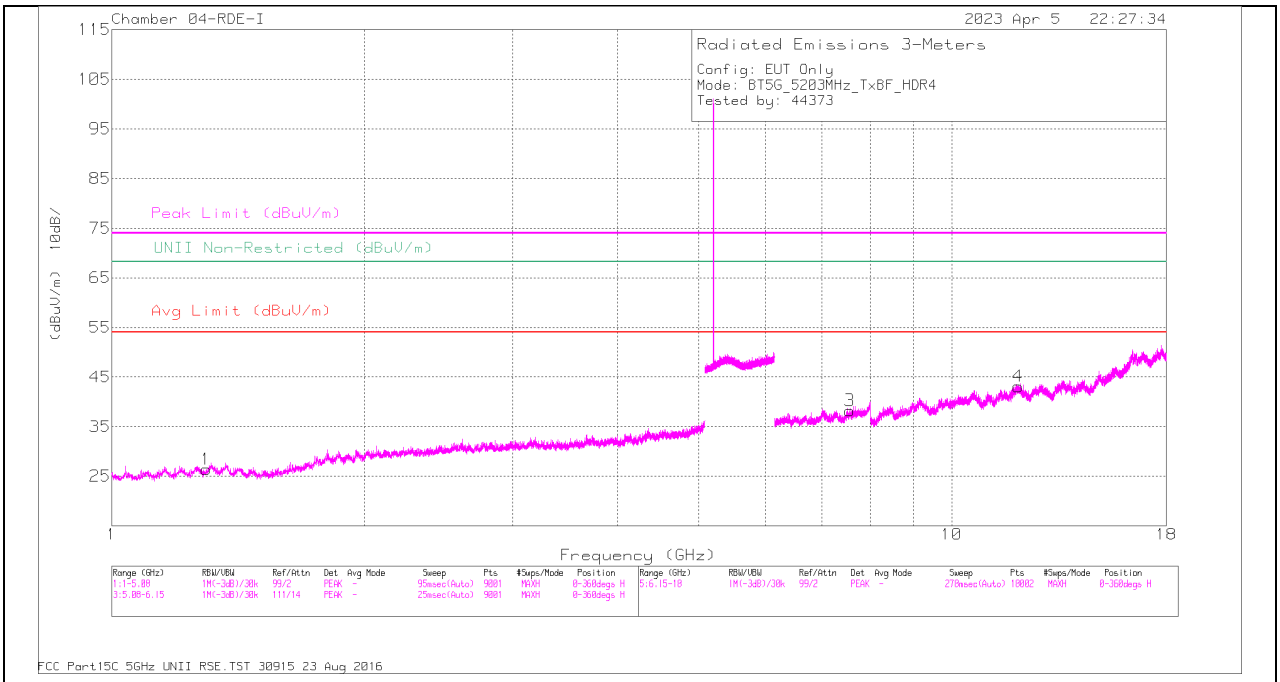
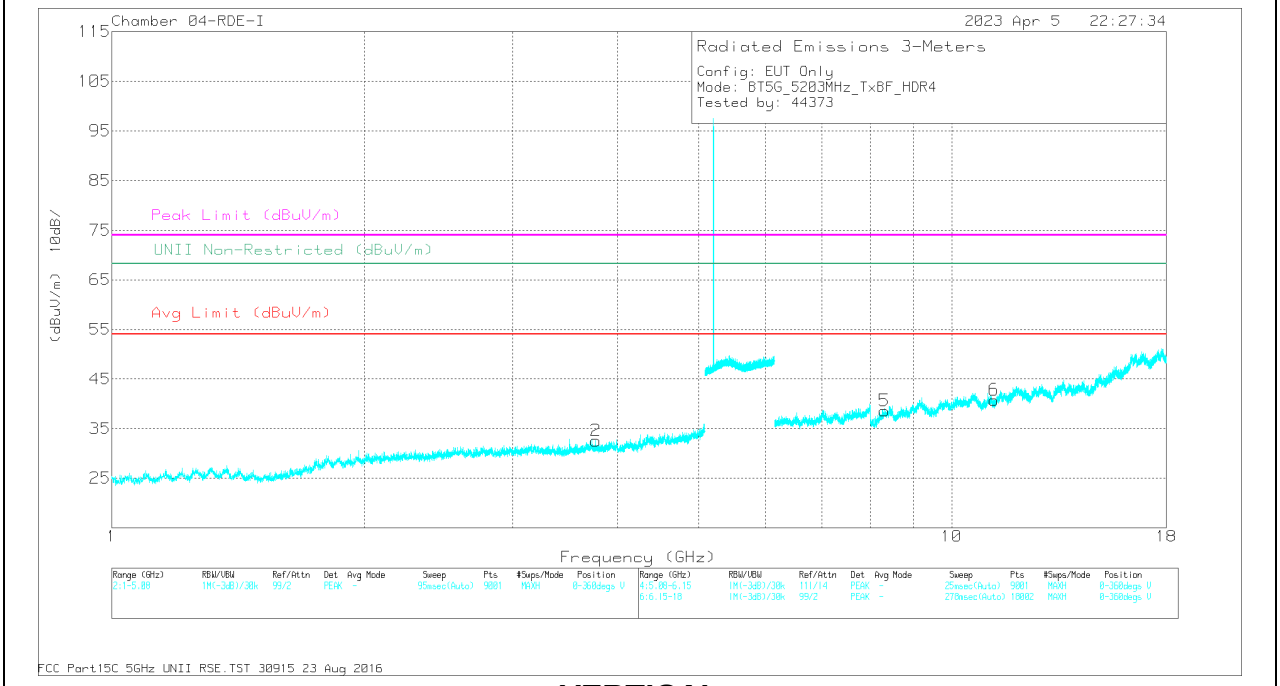
MID CHANNEL 5203MHz



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Amp/Cbl/Fltr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.29609	40.69	PK-U	28.6	-33.1	36.19	-	-	74	-37.81	0	101	H
	* 1.29798	29.39	ADR	28.6	-33.1	24.89	54	-29.11	-	-	0	101	H
2	* 3.771286	38.07	PK-U	33.2	-29.2	42.07	-	-	74	-31.93	0	101	V
	* 3.768888	26.71	ADR	33.2	-29.3	30.61	54	-23.39	-	-	0	101	V
3	* 7.562433	32.96	PK-U	35.7	-20.8	47.86	-	-	74	-26.14	0	101	H
	* 7.562426	21.34	ADR	35.7	-20.8	36.24	54	-17.76	-	-	0	101	H
4	* 11.994684	32.43	PK-U	38.6	-18.2	52.83	-	-	74	-21.17	0	101	H
	* 11.996847	20.98	ADR	38.6	-18.1	41.48	54	-12.52	-	-	0	101	H
5	* 8.315143	32.65	PK-U	35.9	-20.5	48.05	-	-	74	-25.95	0	101	V
	* 8.314555	21.42	ADR	35.9	-20.5	36.82	54	-17.18	-	-	0	101	V
6	* 11.222243	31.52	PK-U	37.7	-18.5	50.72	-	-	74	-23.28	0	200	V
	* 11.22176	19.8	ADR	37.7	-18.5	39	54	-15	-	-	0	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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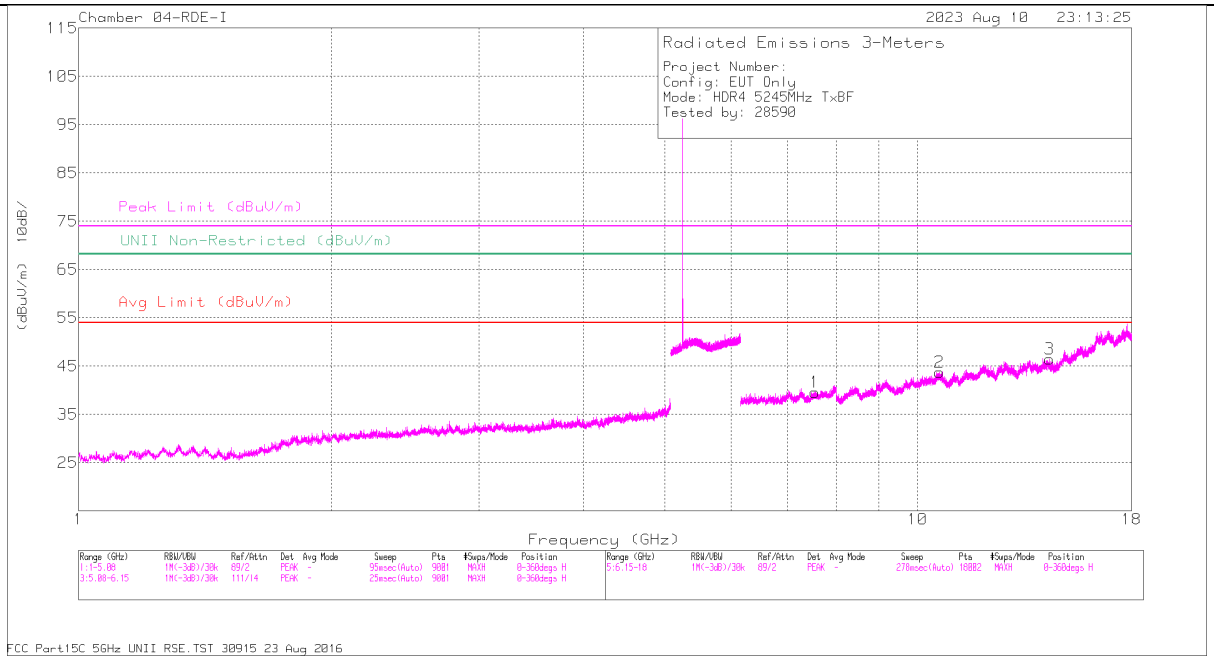
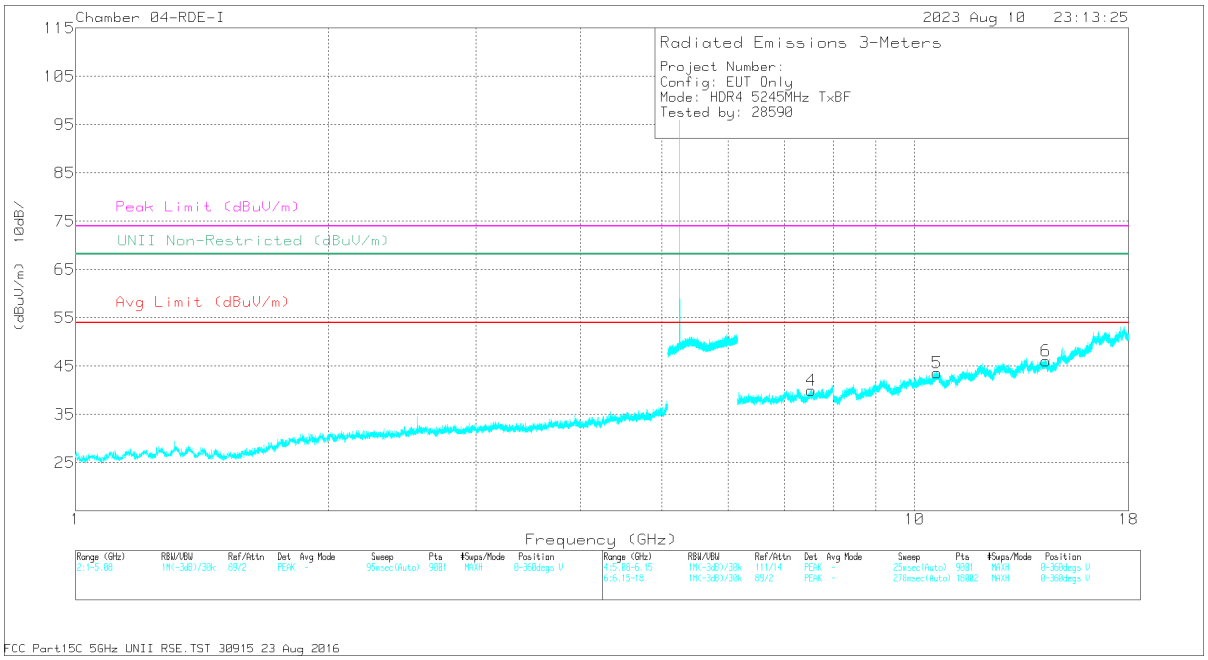
HIGH CHANNEL 5245MHz



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.548941	33.54	PK-U	35.7	-19.2	50.04	-	-	74	-23.96	-	-	360	200	H
	* 7.547981	21.08	ADR	35.7	-19.1	37.68	54	-16.32	-	-	-	-	360	200	H
2	* 10.621051	32.87	PK-U	37.6	-17	53.47	-	-	74	-20.53	-	-	360	200	H
	* 10.621012	21.23	ADR	37.6	-17	41.83	54	-12.17	-	-	-	-	360	200	H
3	14.36351	32.72	PK-U	39.6	-16.9	55.42	-	-	-	-	68.2	-12.78	360	101	H
4	* 7.536054	32.36	PK-U	35.6	-18.9	49.06	-	-	74	-24.94	-	-	360	200	V
	* 7.53657	21.03	ADR	35.6	-18.9	37.73	54	-16.27	-	-	-	-	360	200	V
5	* 10.639685	32.68	PK-U	37.6	-16.9	53.38	-	-	74	-20.62	-	-	360	101	V
	* 10.639704	21.04	ADR	37.6	-16.9	41.74	54	-12.26	-	-	-	-	360	101	V
6	14.353716	33.75	PK-U	39.6	-16.9	56.45	-	-	-	-	68.2	-11.75	360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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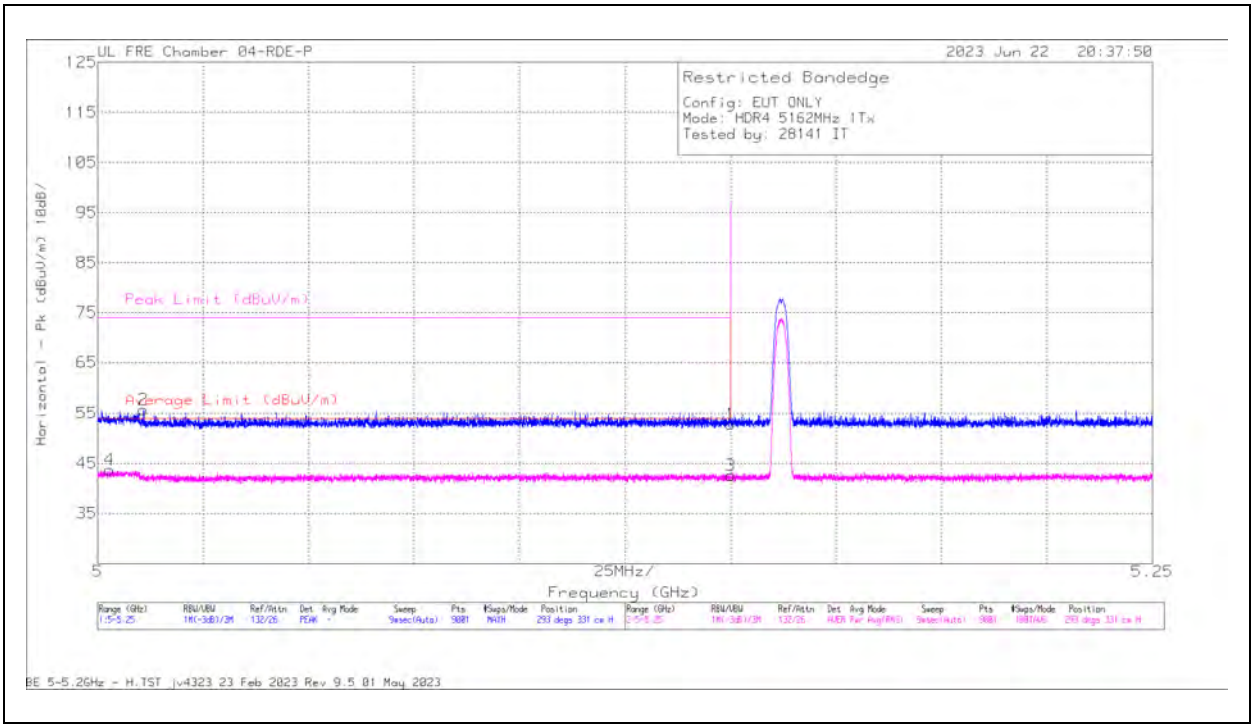
10.1.7 HDR4, LOW POWER UNII-1 BANDEDGE

ANT 6

Low Channel

HORIZONTAL RESULT

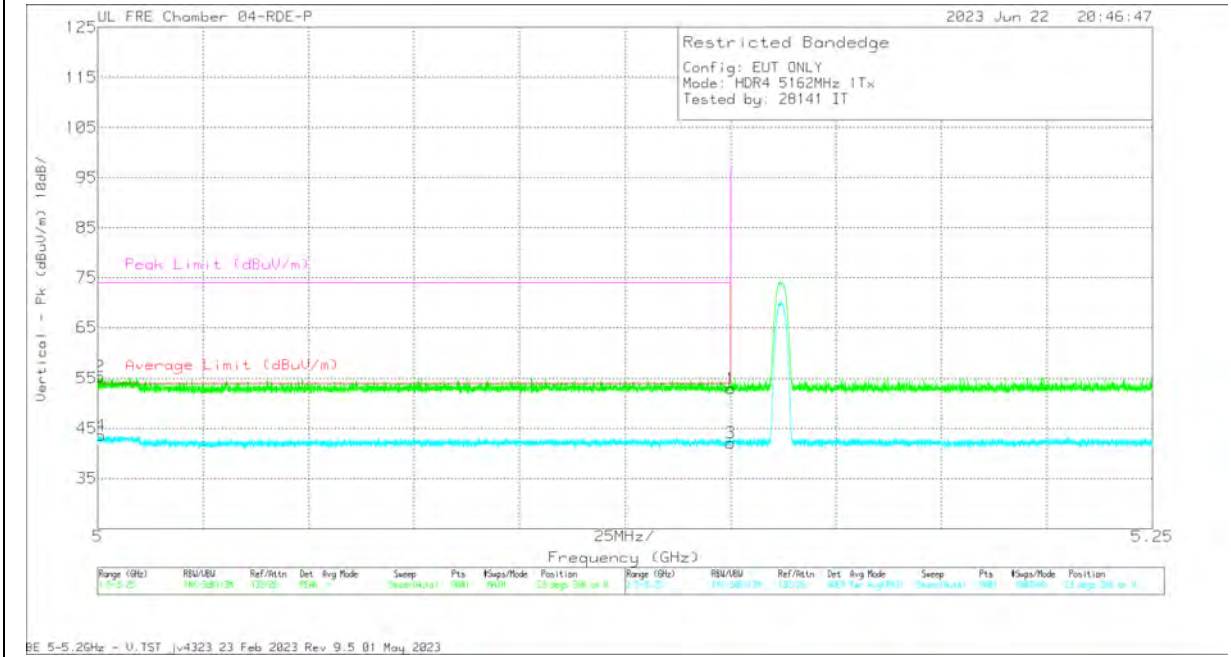


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.002806	48.45	RMS	33.9	-38.67	43.68	54	-10.32	-	-	293	331	H
2	5.010889	60.49	Pk	33.9	-38.68	55.71	-	-	74	-18.29	293	331	H
1	5.15	57.24	Pk	34.1	-38.51	52.83	-	-	74	-21.17	293	331	H
3	5.15	46.98	RMS	34.1	-38.51	42.57	54	-11.43	-	-	293	331	H

Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.000556	60.16	Pk	33.9	-38.68	55.38	-	-	74	-18.62	23	266	V
4	5.000694	48.34	RMS	33.9	-38.66	43.58	54	-10.42	-	-	23	266	V
1	5.15	57.4	Pk	34.1	-38.51	52.99	-	-	74	-21.01	23	266	V
3	5.15	46.49	RMS	34.1	-38.51	42.08	54	-11.92	-	-	23	266	V

Pk - Peak detector
RMS - RMS detection

UL VERIFICATION SERVICES INC.
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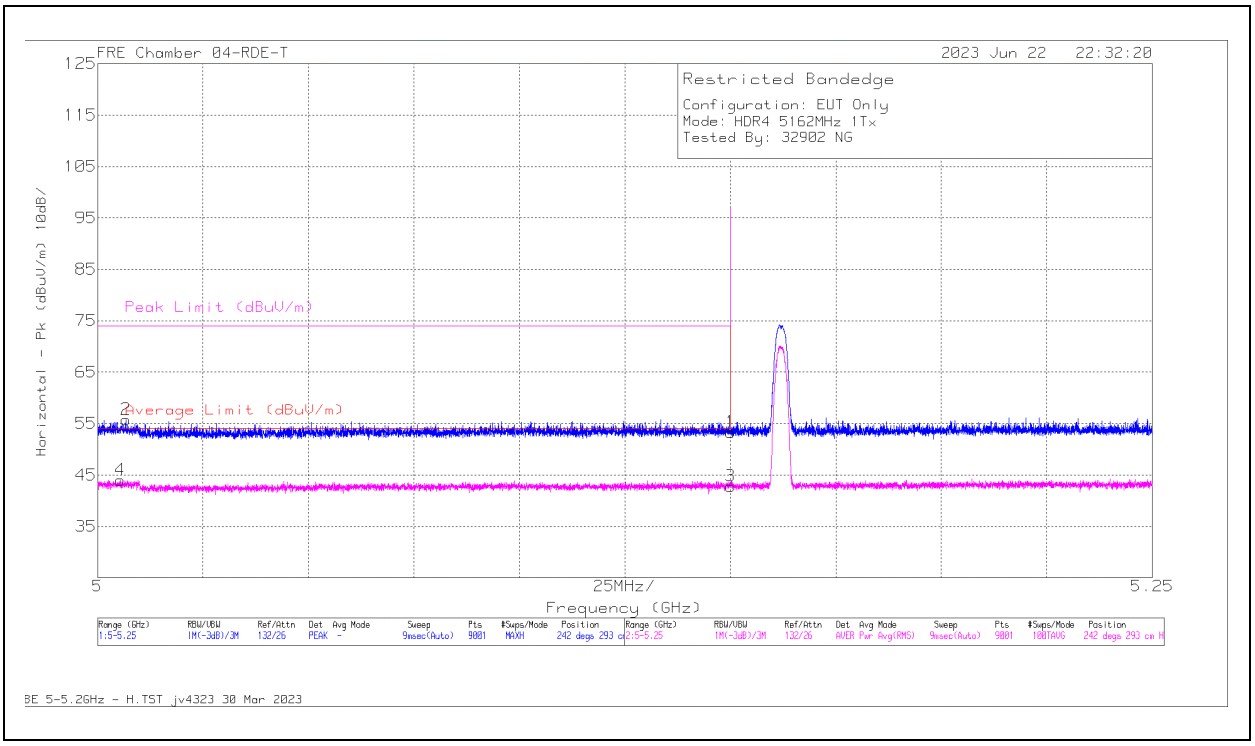
ANT 5

Low Channel

HORIZONTAL RESULT

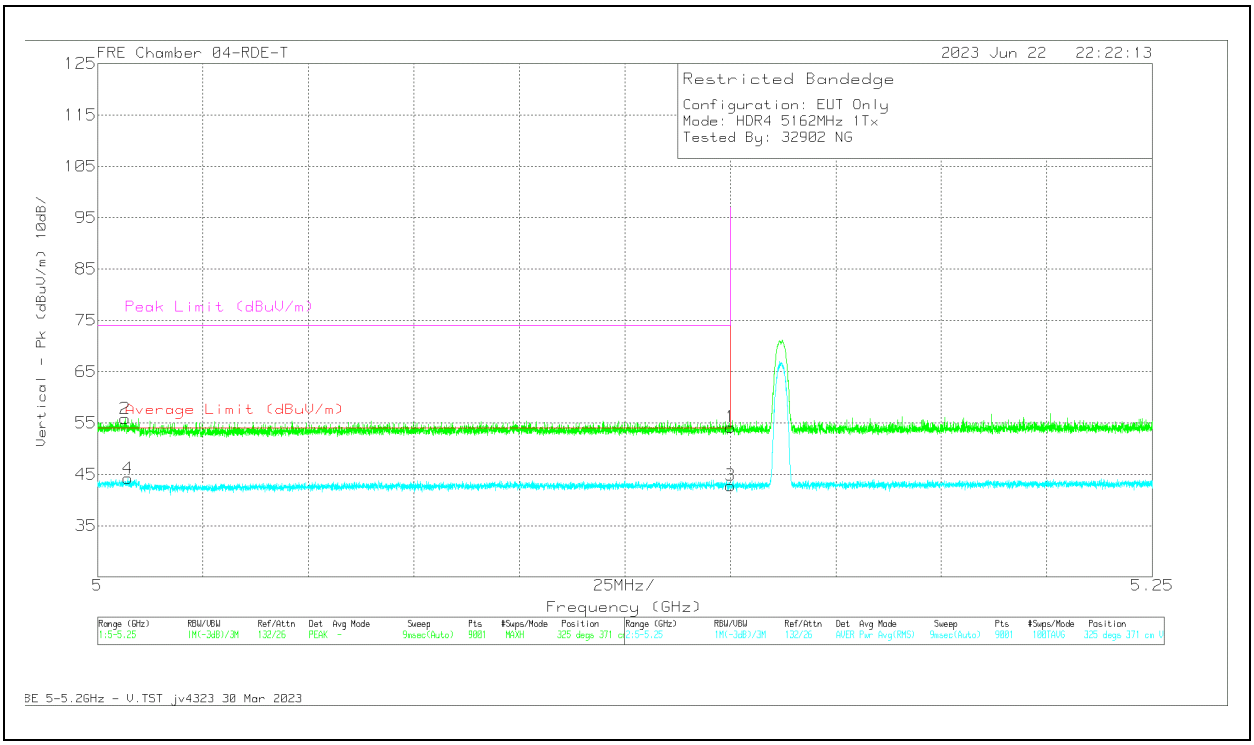


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	55.03	Pk	34.2	-35.9	53.33	-	-	74	-20.67	242	293	H
2	* 5.006806	58.14	Pk	34	-36.36	55.78	-	-	74	-18.22	242	293	H
3	* 5.15	44.54	RMS	34.2	-35.9	42.84	54	-11.16	-	-	242	293	H
4	* 5.005417	46.41	RMS	34	-36.38	44.03	54	-9.97	-	-	242	293	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



Trace Markers

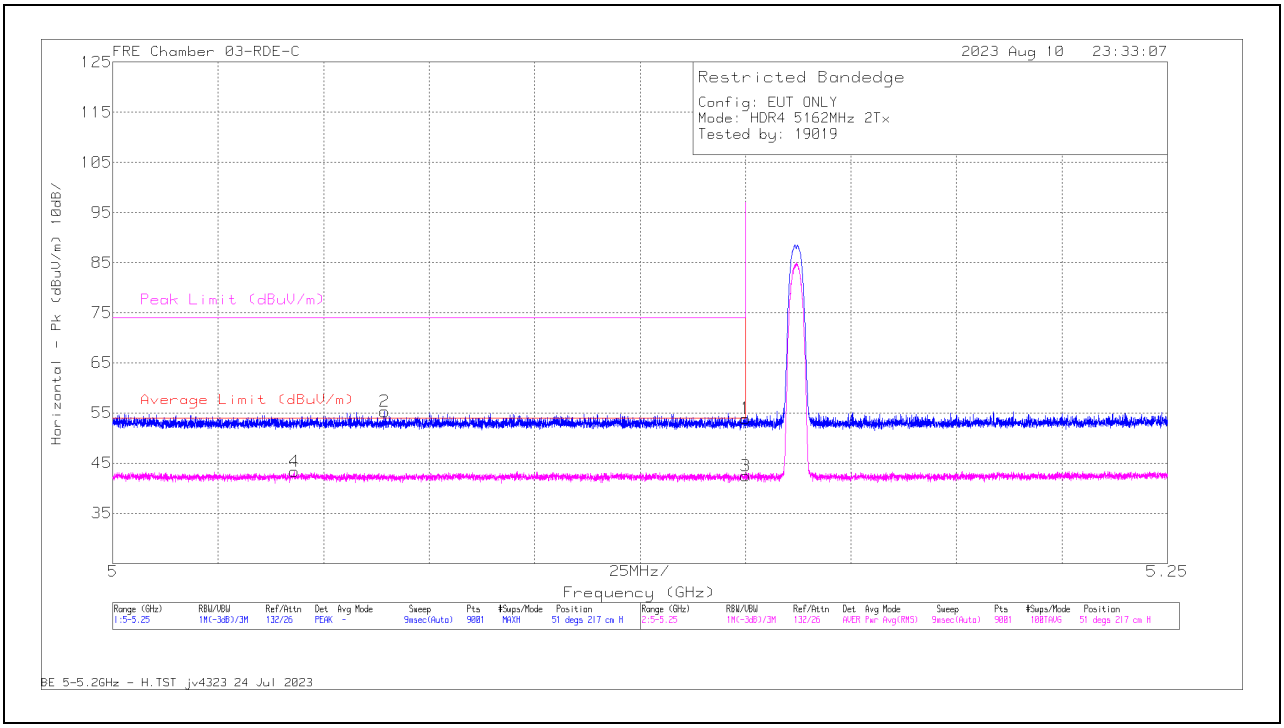
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	55.92	Pk	34.2	-35.9	54.22	-	-	74	-19.78	325	371	V
2	* 5.006556	58.21	Pk	34	-36.36	55.85	-	-	74	-18.15	325	371	V
3	* 5.15	44.53	RMS	34.2	-35.9	42.83	54	-11.17	-	-	325	371	V
4	* 5.007222	46.58	RMS	34	-36.36	44.22	54	-9.78	-	-	325	371	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

2TX Antenna 6 + Antenna 5 TXBF MODE

BANDEDGE (LOW CHANNEL)

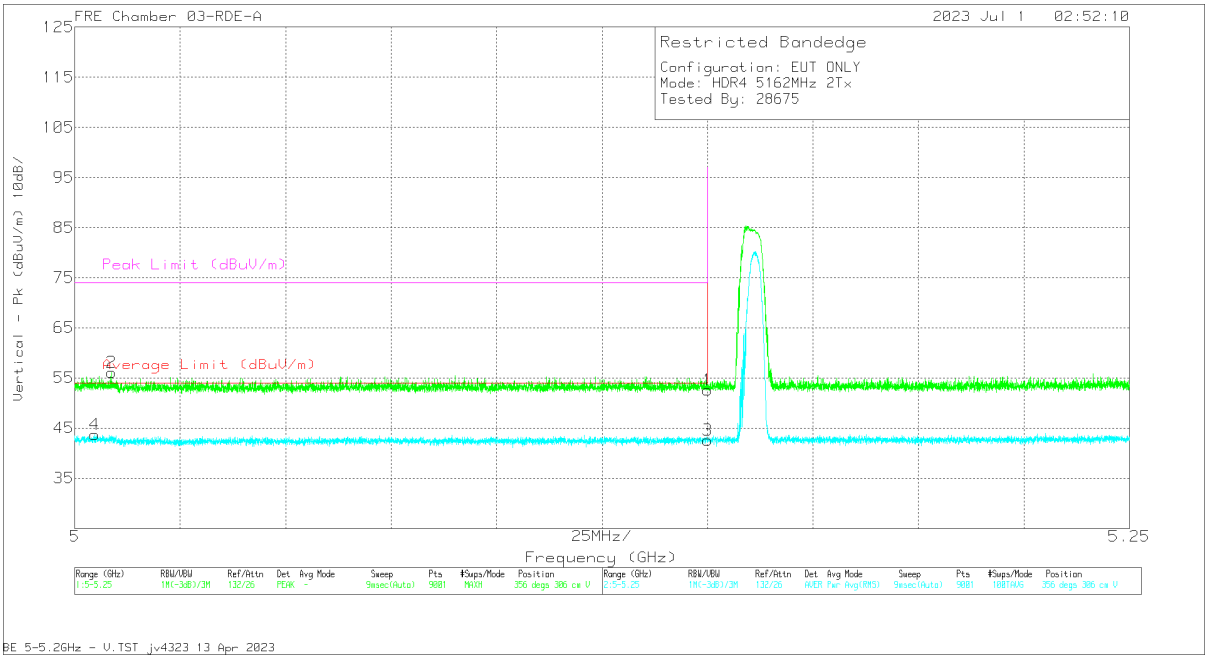
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.91	Pk	34.4	-38.4	53.91	-	-	74	-20.09	51	217	H
2	* 5.064445	59.58	Pk	34.2	-38.49	55.29	-	-	74	-18.71	51	217	H
3	* 5.15	46.51	RMS	34.4	-38.4	42.51	54	-11.49	-	-	51	217	H
4	* 5.043084	47.6	RMS	34.2	-38.5	43.3	54	-10.7	-	-	51	217	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT

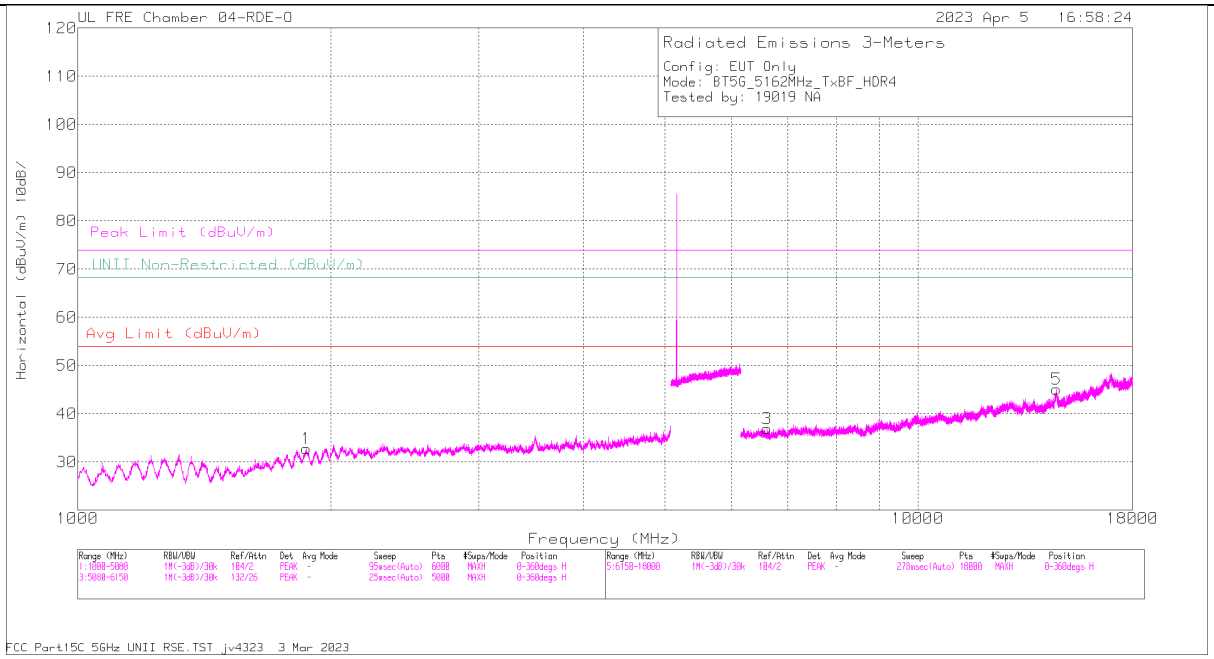


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	56.74	Pk	34.6	-38.69	52.65	-	-	74	-21.35	356	306	V
2	* 5.008722	60.72	Pk	34.4	-39.01	56.11	-	-	74	-17.89	356	306	V
3	* 5.15	46.69	RMS	34.6	-38.69	42.6	54	-11.4	-	-	356	306	V
4	* 5.004667	48.2	RMS	34.4	-38.93	43.67	54	-10.33	-	-	356	306	V

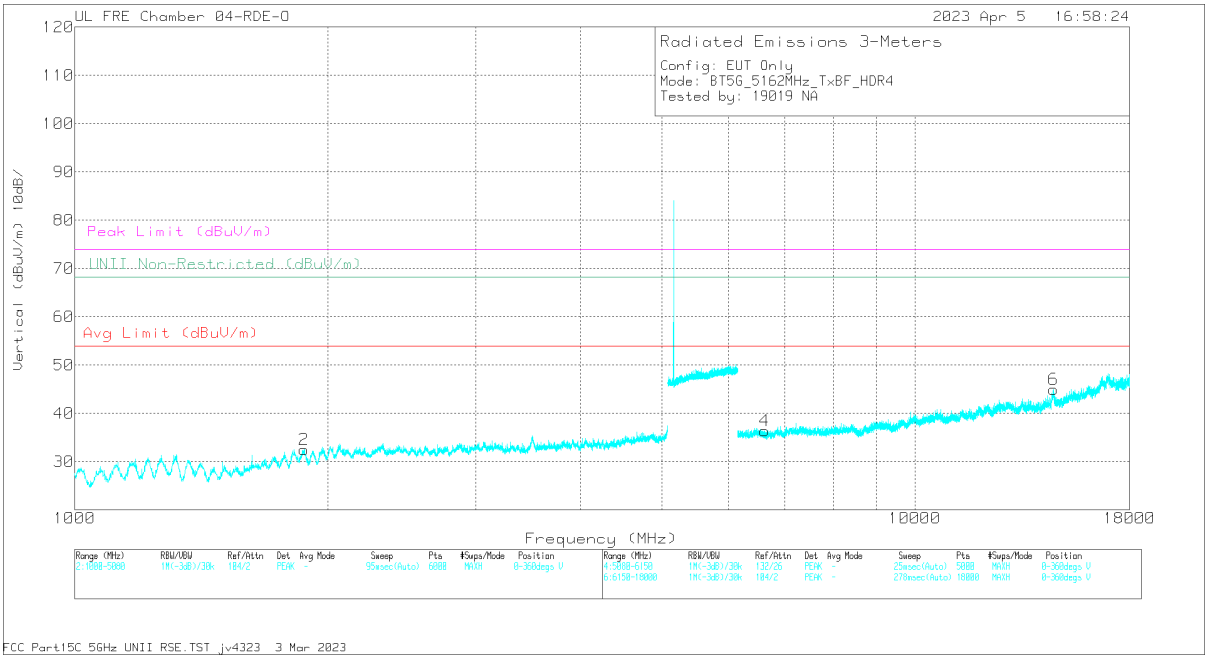
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

10.1.8 HDR4, LOW POWER UNII-1 HARMONIC AND SPURIOUS IN THE 5.2 GHz BAND

LOW CHANNEL



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF (dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1870.542	58.5	PK-U	30.8	-46.57	42.73	68.2	-25.47	339	181	H
2	1875.723	58.63	PK-U	30.9	-46.76	42.77	68.2	-25.43	109	130	V
3	6610.804	53.48	PK-U	35.8	-42.94	46.34	68.2	-21.86	159	216	H
4	6627.072	54.05	PK-U	35.7	-43.13	46.62	68.2	-21.58	111	185	V
5	14612.095	52.86	PK-U	39.7	-38.13	54.43	68.2	-13.77	136	148	H
6	14614.1	53.15	PK-U	39.7	-38.06	54.79	68.2	-13.41	177	243	V

PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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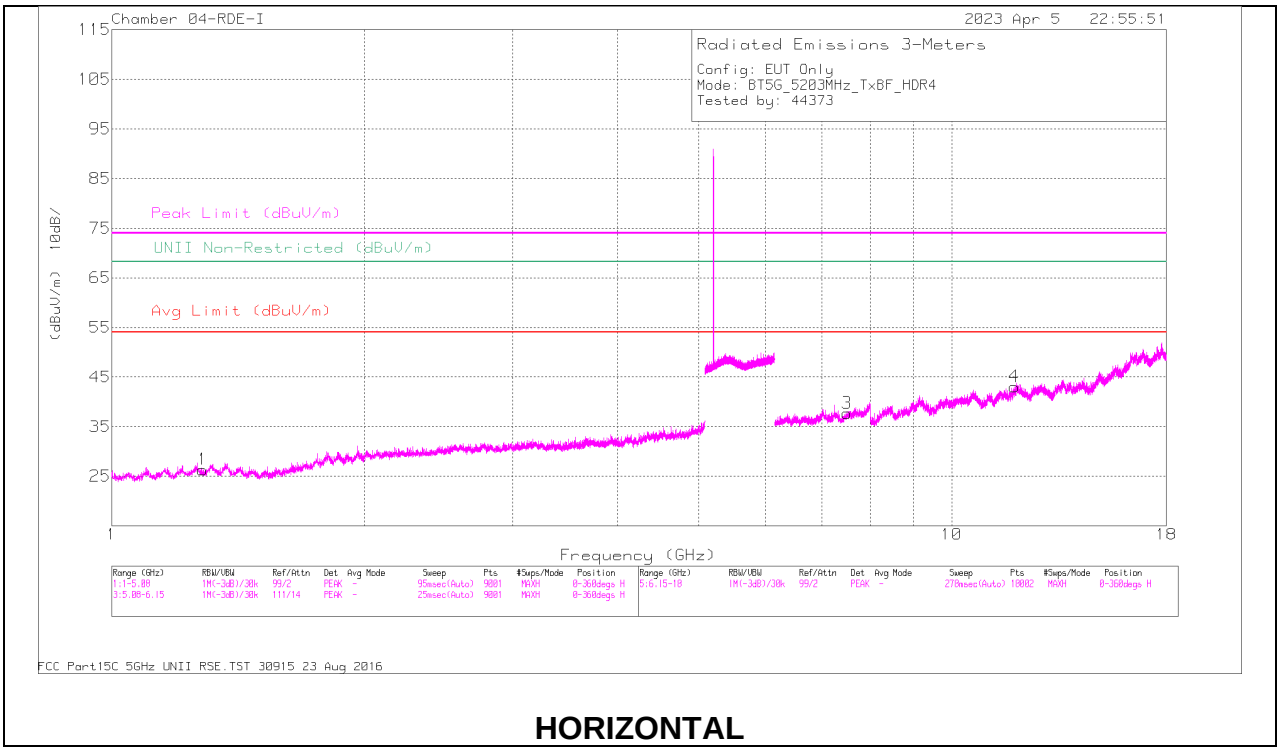
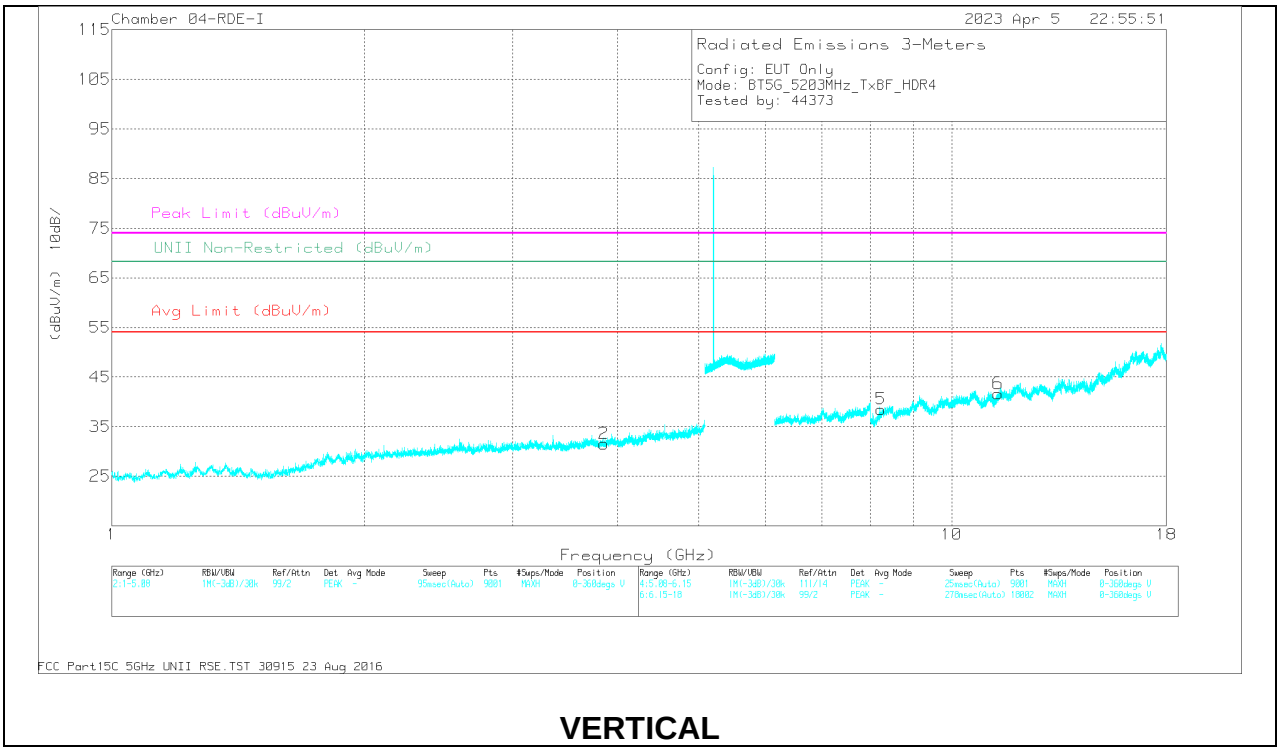
MID CHANNEL 5203MHz



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Amp/Cbl /Fltr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.284792	40.5	PK-U	28.6	-33.3	35.8	-	-	74	-38.2	360	101	H
	* 1.2833	29.54	ADR	28.6	-33.2	24.94	54	-29.06	-	-	360	101	H
2	* 3.849793	38.19	PK-U	33.2	-29.6	41.79	-	-	74	-32.21	360	200	V
	* 3.852619	26.71	ADR	33.2	-29.4	30.51	54	-23.49	-	-	360	200	V
3	* 7.506974	33.43	PK-U	35.6	-20.7	48.33	-	-	74	-25.67	360	200	H
	* 7.508314	21.11	ADR	35.6	-20.5	36.21	54	-17.79	-	-	360	200	H
4	* 11.871729	32.06	PK-U	38.5	-18.8	51.76	-	-	74	-22.24	360	101	H
	* 11.87067	20.81	ADR	38.5	-18.8	40.51	54	-13.49	-	-	360	101	H
5	* 8.238863	32.22	PK-U	35.9	-20.6	47.52	-	-	74	-26.48	360	101	V
	* 8.239146	20.88	ADR	35.9	-20.6	36.18	54	-17.82	-	-	360	101	V
6	* 11.35363	32.31	PK-U	37.8	-18.7	51.41	-	-	74	-22.59	360	200	V
	* 11.351271	20.53	ADR	37.8	-18.7	39.63	54	-14.37	-	-	360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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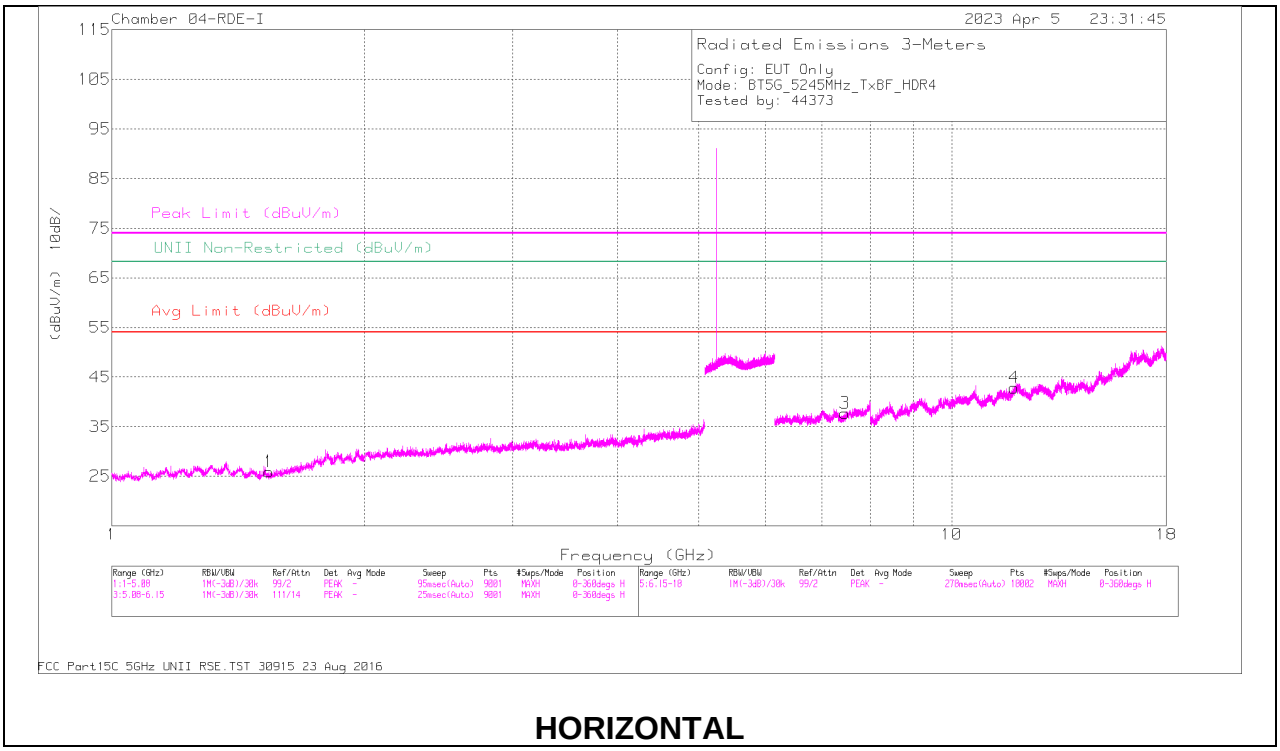
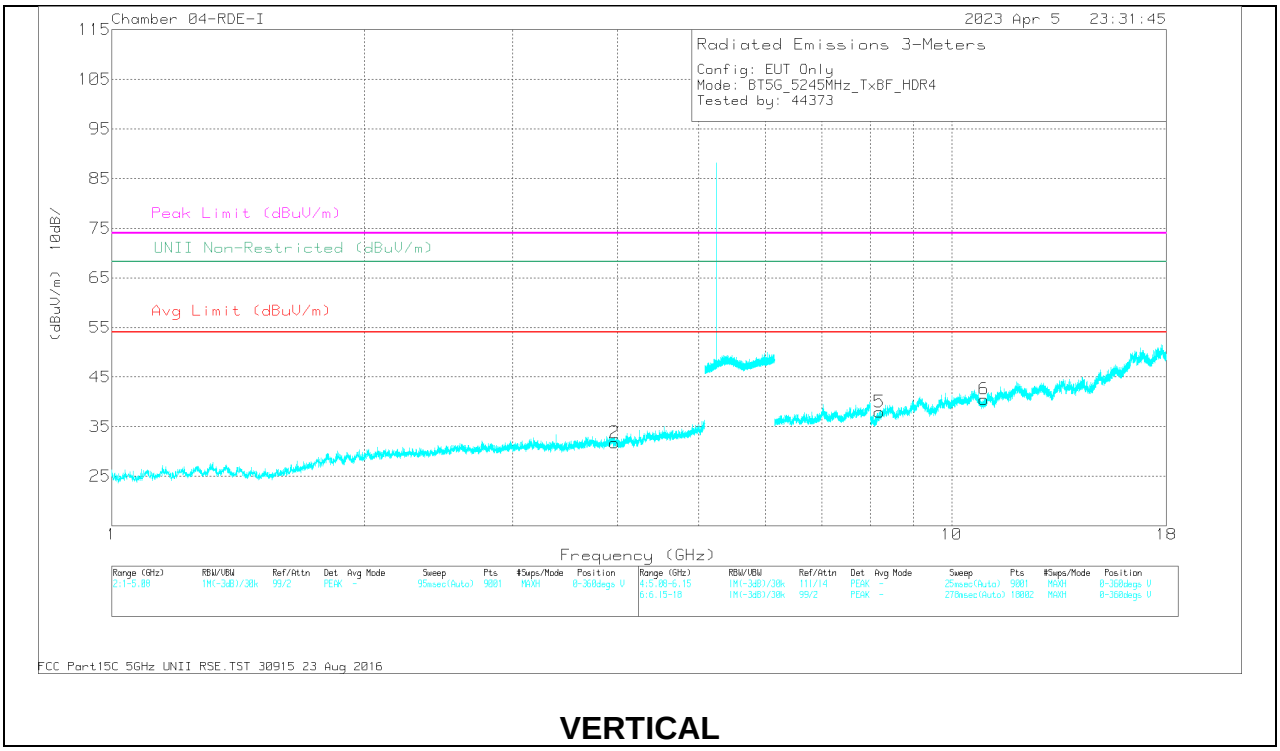
HIGH CHANNEL 5245MHz



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Amp/Cbl /Fltr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.539366	40.48	PK-U	27.6	-32.5	35.58	-	-	74	-38.42	360	101	H
	* 1.538143	29.41	ADR	27.6	-32.7	24.31	54	-29.69	-	-	360	101	H
2	* 3.96733	37.8	PK-U	33.2	-28.8	42.2	-	-	74	-31.8	360	200	V
	* 3.967212	26.23	ADR	33.2	-28.8	30.63	54	-23.37	-	-	360	200	V
3	* 7.458828	33.24	PK-U	35.6	-21.3	47.54	-	-	74	-26.46	360	101	H
	* 7.458545	21.42	ADR	35.6	-21.3	35.72	54	-18.28	-	-	360	101	H
4	* 11.867136	32.25	PK-U	38.5	-18.9	51.85	-	-	74	-22.15	360	101	H
	* 11.865984	20.85	ADR	38.5	-18.9	40.45	54	-13.55	-	-	360	101	H
5	* 8.202038	31.67	PK-U	35.9	-20.1	47.47	-	-	74	-26.53	360	200	V
	* 8.200319	20.17	ADR	35.9	-20.1	35.97	54	-18.03	-	-	360	200	V
6	* 10.91896	31.33	PK-U	37.6	-17.9	51.03	-	-	74	-22.97	360	200	V
	* 10.916524	19.32	ADR	37.6	-18	38.92	54	-15.08	-	-	360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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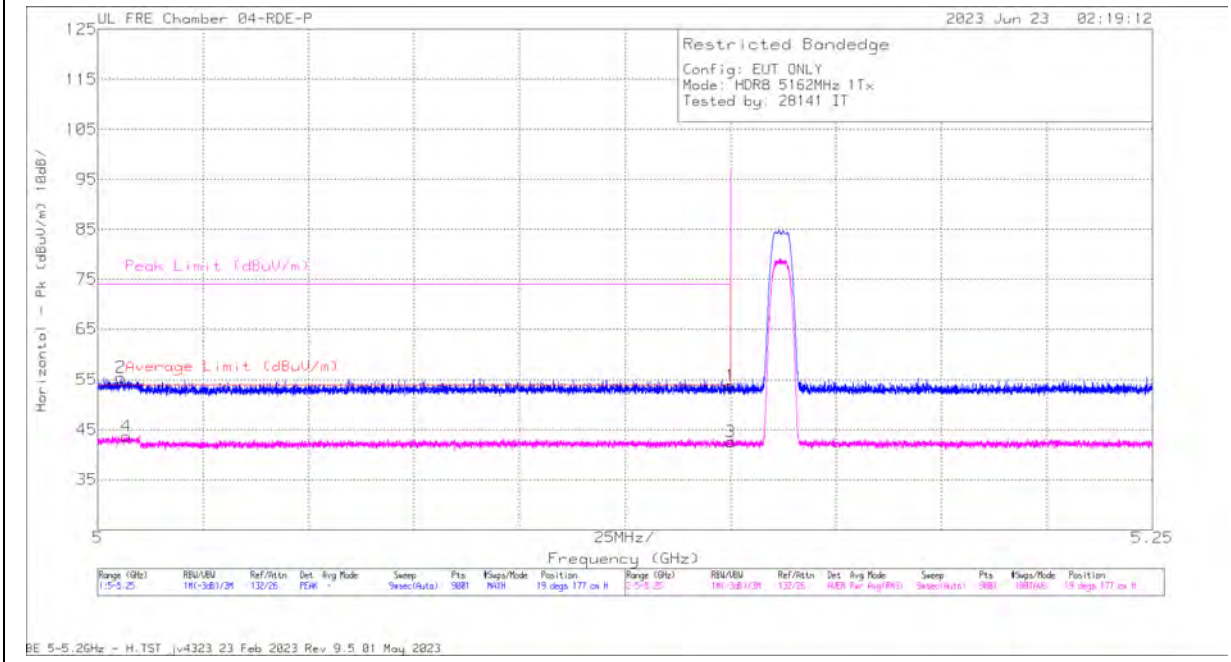
10.1.9 HDR8, HIGH POWER UNII-1 BANDEDGE

ANT 6

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

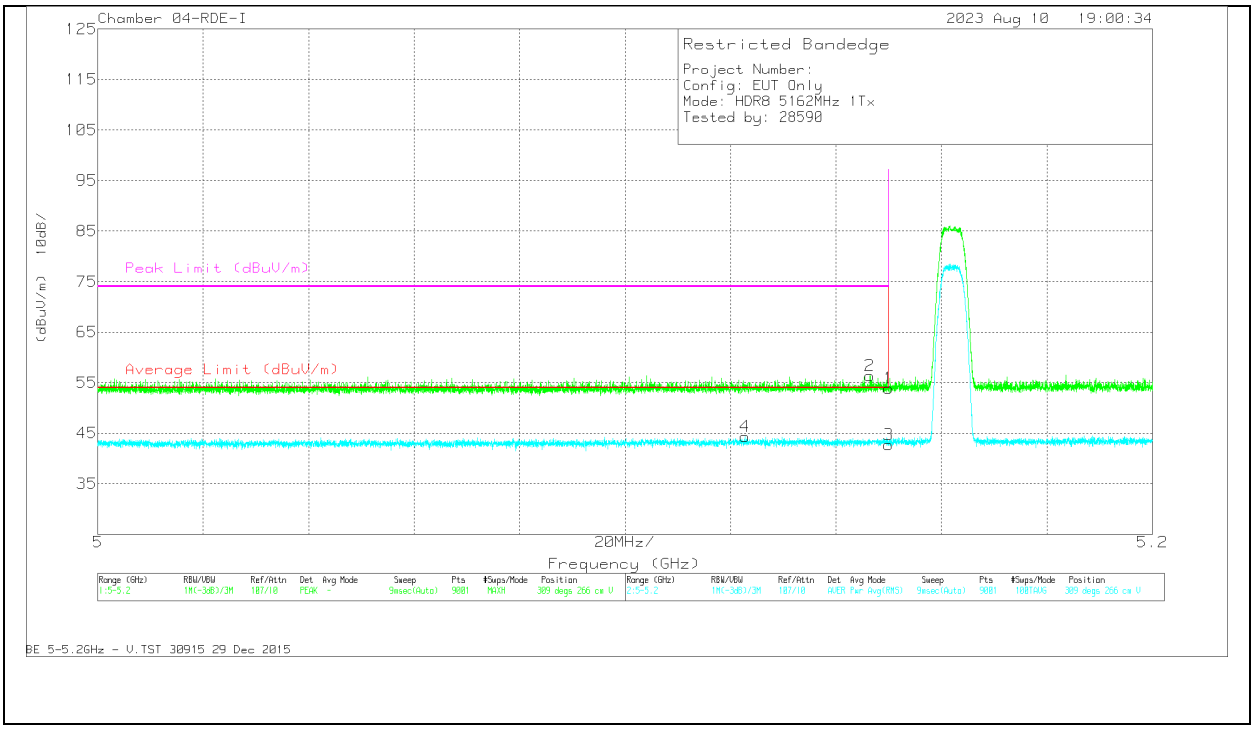


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.005528	60.09	Pk	33.9	-38.57	55.42	-	-	74	-18.58	19	177	H
4	5.006806	48.37	RMS	33.9	-38.53	43.74	54	-10.26	-	-	19	177	H
1	5.15	58.28	Pk	34.1	-38.51	53.87	-	-	74	-20.13	19	177	H
3	5.15	46.98	RMS	34.1	-38.51	42.57	54	-11.43	-	-	19	177	H

Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



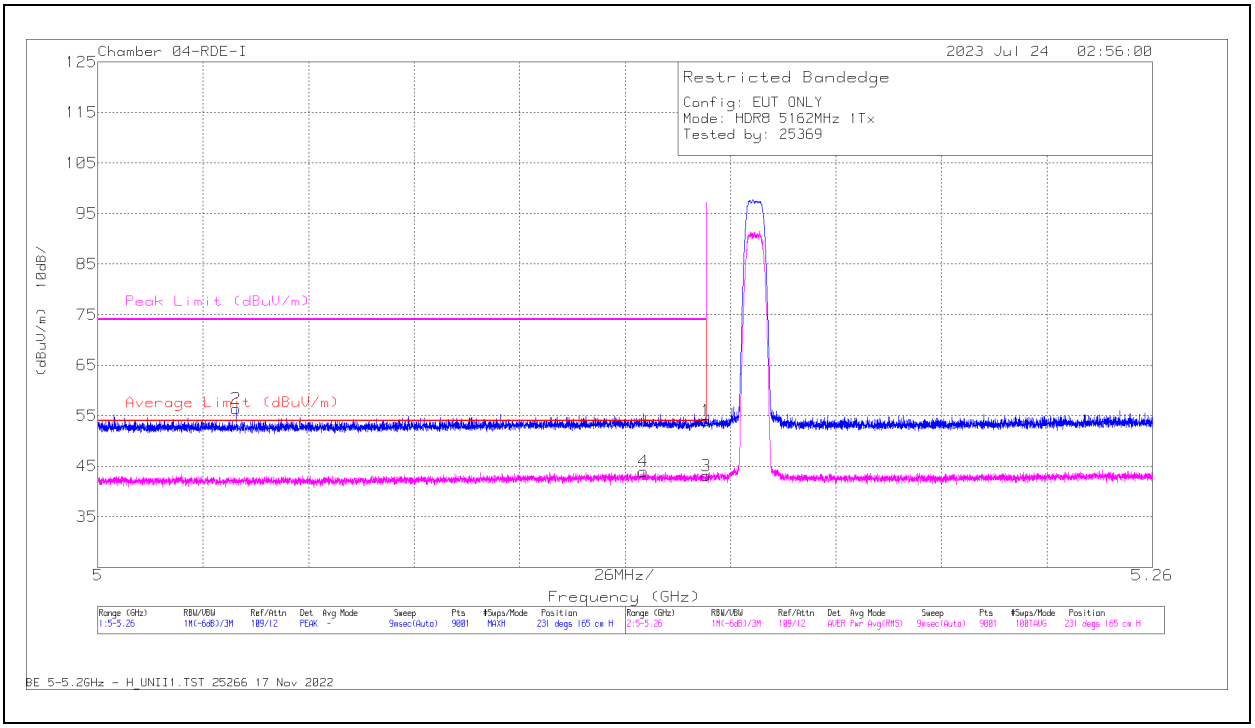
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	37.11	Pk	34.2	-17.4	53.91	-	-	74	-20.09	309	266	V
2	* 5.146443	39.58	Pk	34.2	-17.4	56.38	-	-	74	-17.62	309	266	V
3	* 5.15	25.94	RMS	34.2	-17.4	42.74	54	-11.26	-	-	309	266	V
4	* 5.12271	27.45	RMS	34.2	-17.3	44.35	54	-9.65	-	-	309	266	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

ANT 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT)

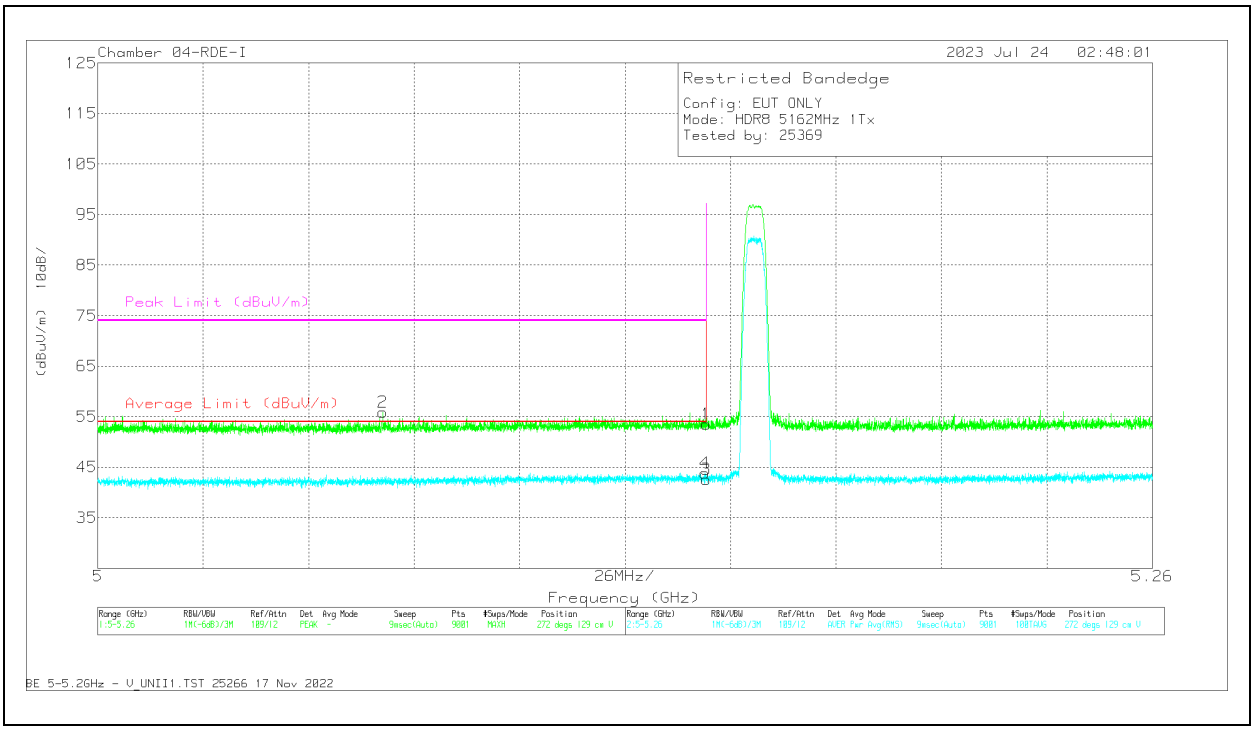


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	33.98	Pk	34.2	-14.2	53.98	-	-	74	-20.02	231	165	H
2	* 5.034118	36.22	Pk	34.1	-14	56.32	-	-	74	-17.68	231	165	H
3	* 5.15	23.06	RMS	34.2	-14.2	43.06	54	-10.94	-	-	231	165	H
4	* 5.134565	23.81	RMS	34.2	-14.1	43.91	54	-10.09	-	-	231	165	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



Trace Markers

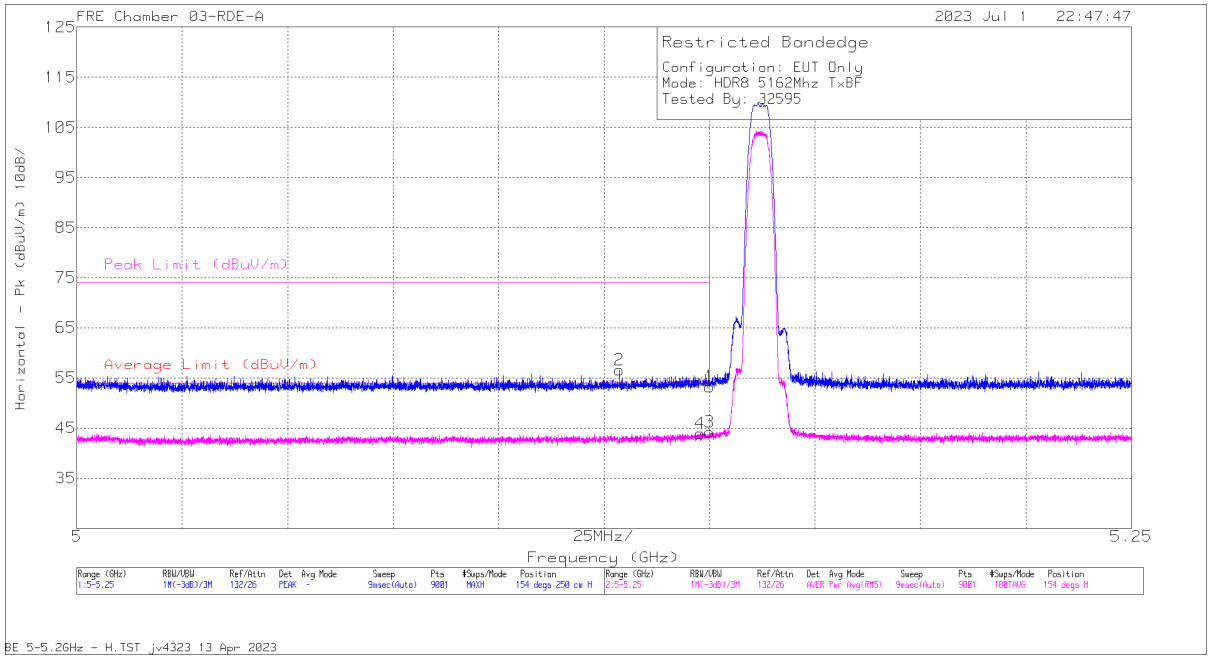
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	33.52	Pk	34.2	-14.2	53.52	-	-	74	-20.48	272	129	V
2	* 5.070287	35.9	Pk	34.1	-14.1	55.9	-	-	74	-18.1	272	129	V
3	* 5.15	22.62	RMS	34.2	-14.2	42.62	54	-11.38	-	-	272	129	V
4	* 5.149674	23.84	RMS	34.2	-14.2	43.84	54	-10.16	-	-	272	129	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

2TX Antenna 6 + Antenna 5 TXBF MODE

BANDEDGE (LOW CHANNEL)

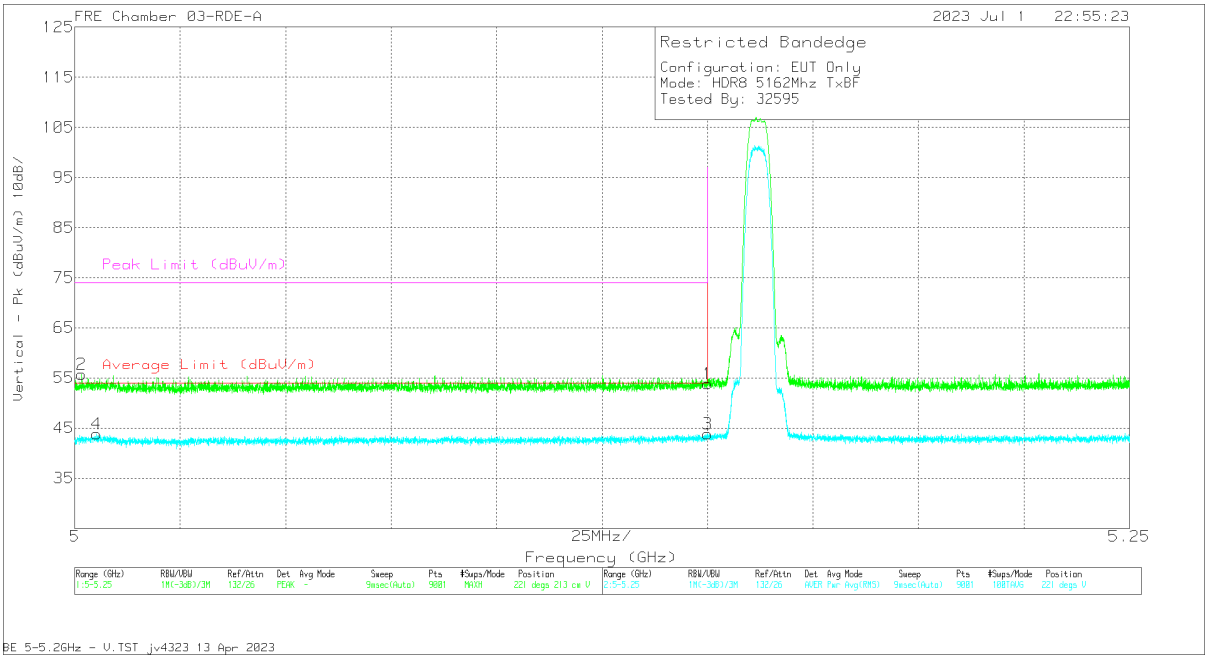
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.37	Pk	34.6	0	-38.69	53.28	-	-	74	-20.72	154	250	H
2	* 5.128612	60.99	Pk	34.5	0	-38.86	56.63	-	-	74	-17.37	154	250	H
3	* 5.15	48.31	RMS	34.6	0	-38.69	44.22	54	-9.78	-	-	154	250	H
4	* 5.147723	48.18	RMS	34.6	0	-38.76	44.02	54	-9.98	-	-	154	250	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT

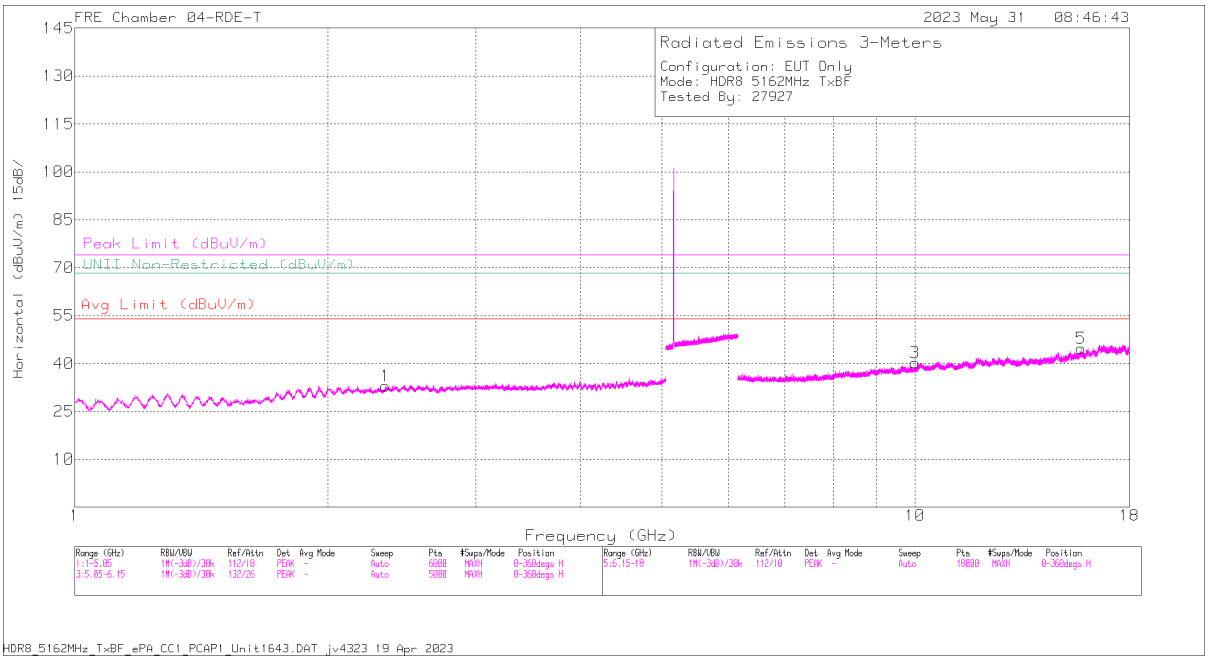


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.93	Pk	34.6	0	-38.69	53.84	-	-	74	-20.16	221	213	V
2	* 5.001667	60.35	Pk	34.4	0	-39.01	55.74	-	-	74	-18.26	221	213	V
3	* 5.15	47.98	RMS	34.6	0	-38.69	43.89	54	-10.11	-	-	221	213	V
4	* 5.00525	48.35	RMS	34.4	0	-38.94	43.81	54	-10.19	-	-	221	213	V

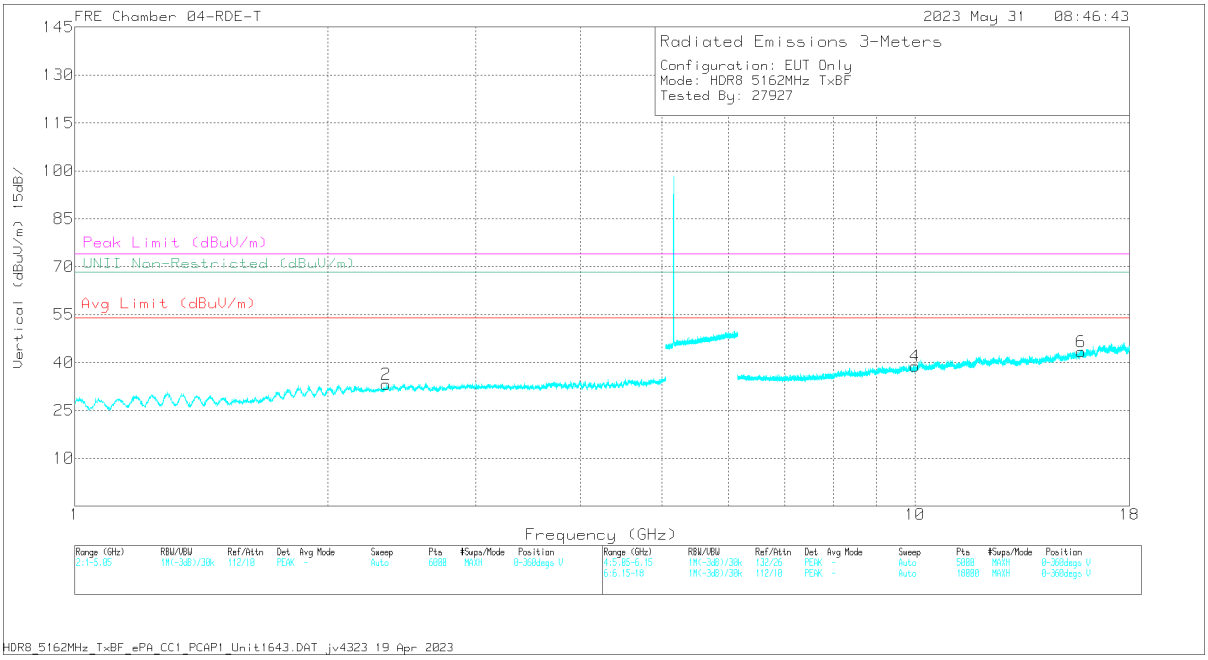
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

10.1.10 HDR8, HIGH POWER UNII-1 HARMONIC AND SPURIOUS IN THE 5.2 GHz BAND

LOW CHANNEL



HORIZONTAL



VERTICAL

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.343982	58.51	PK-U	31.9	-47.59	42.82	-	-	74	-31.18	-	-	119	101	H
	* 2.343707	46.55	ADR	31.9	-47.58	30.87	54	-23.13	-	-	-	-	119	101	H
2	* 2.346882	58.5	PK-U	31.9	-47.66	42.74	-	-	74	-31.26	-	-	119	101	V
	* 2.348905	46.54	ADR	31.9	-47.66	30.78	54	-23.22	-	-	-	-	119	101	V
5	* 15.772675	53.01	PK-U	40.7	-41.29	52.42	-	-	74	-21.58	-	-	119	199	H
	* 15.770128	41.29	ADR	40.7	-41.34	40.65	54	-13.35	-	-	-	-	119	199	H
6	* 15.777579	52.86	PK-U	40.7	-41.23	52.33	-	-	74	-21.67	-	-	119	199	V
	* 15.776567	41.27	ADR	40.7	-41.23	40.74	54	-13.26	-	-	-	-	119	199	V
3	10.0047	52.83	PK-U	37.1	-42.05	47.88	-	-	-	-	68.2	-20.32	119	199	H
4	10.011258	53.15	PK-U	37.1	-42.14	48.11	-	-	-	-	68.2	-20.09	119	199	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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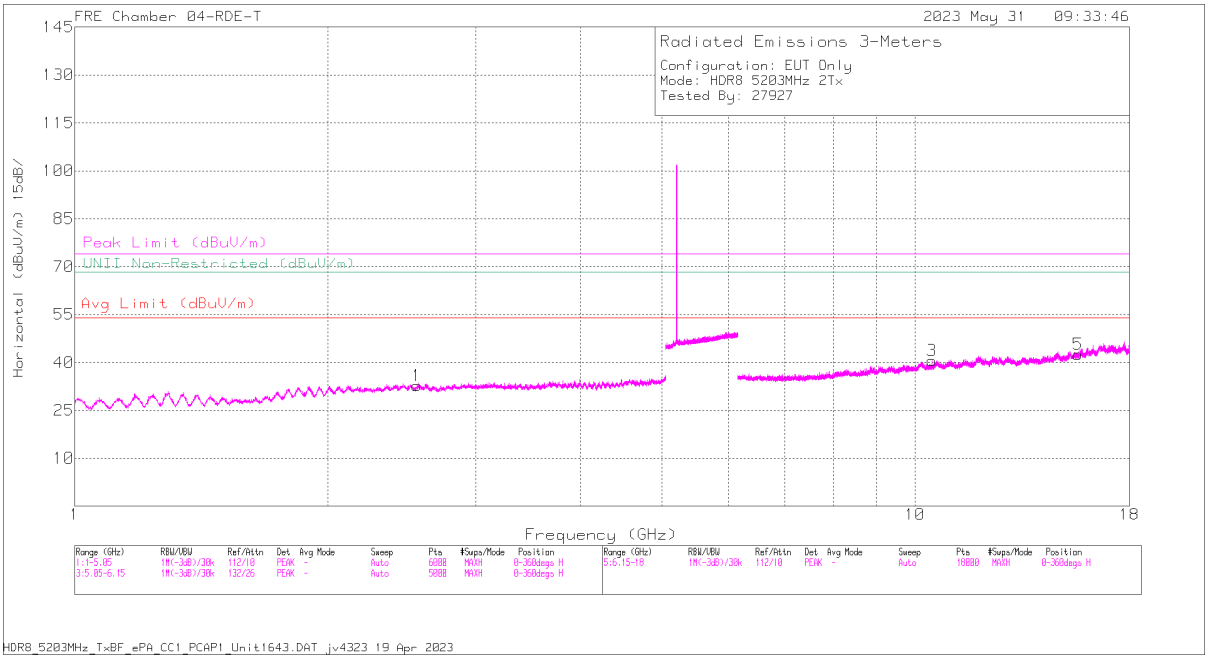
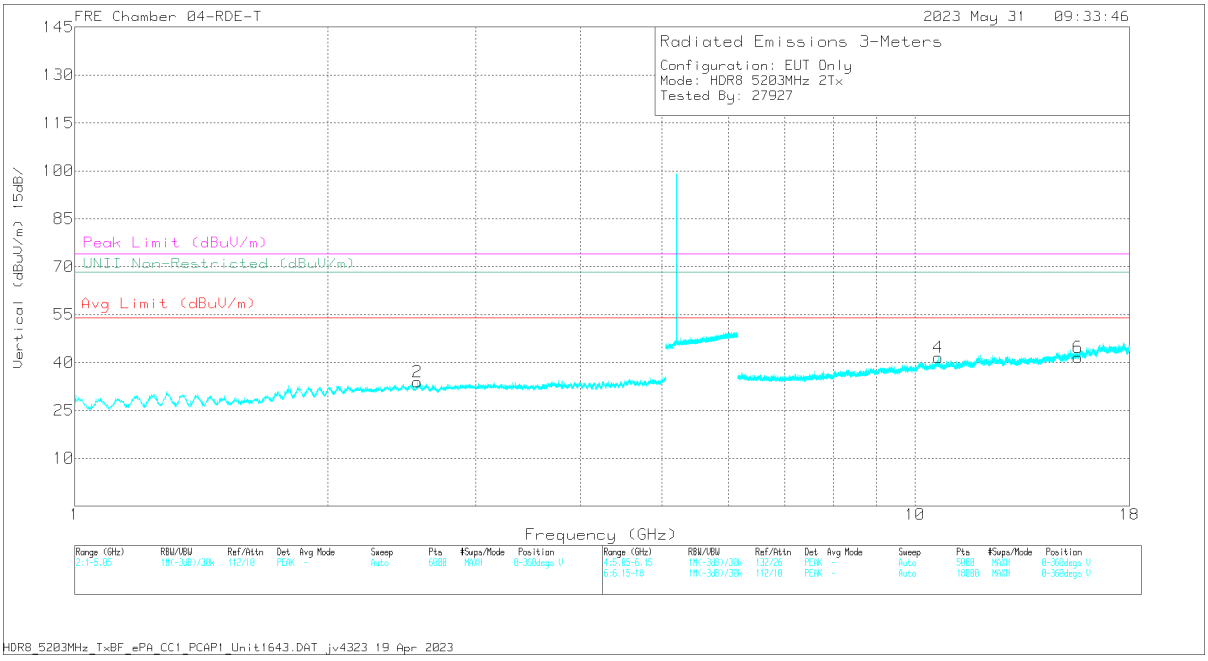
MID CHANNEL



HORIZONTAL



VERTICAL

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 15.624888	53.16	PK-U	40.5	-42.08	51.58	-	-	74	-22.42	-	-	119	199	H
	* 15.624089	41.44	ADR	40.5	-42.04	39.9	54	-14.1	-	-	-	-	119	199	H
4	* 10.657939	53.16	PK-U	37.7	-41.57	49.29	-	-	74	-24.71	-	-	119	199	V
	* 10.659807	41.58	ADR	37.7	-41.6	37.68	54	-16.32	-	-	-	-	119	199	V
6	* 15.631246	53	PK-U	40.5	-42.26	51.24	-	-	74	-22.76	-	-	119	199	V
	* 15.630437	41.33	ADR	40.5	-42.24	39.59	54	-14.41	-	-	-	-	119	199	V
1	2.554157	57.5	PK-U	32.3	-47.42	42.38	-	-	-	-	68.2	-25.82	119	199	H
2	2.557141	57.83	PK-U	32.3	-47.38	42.75	-	-	-	-	68.2	-25.45	119	199	V
3	10.481335	53.77	PK-U	37.5	-42.09	49.18	-	-	-	-	68.2	-19.02	119	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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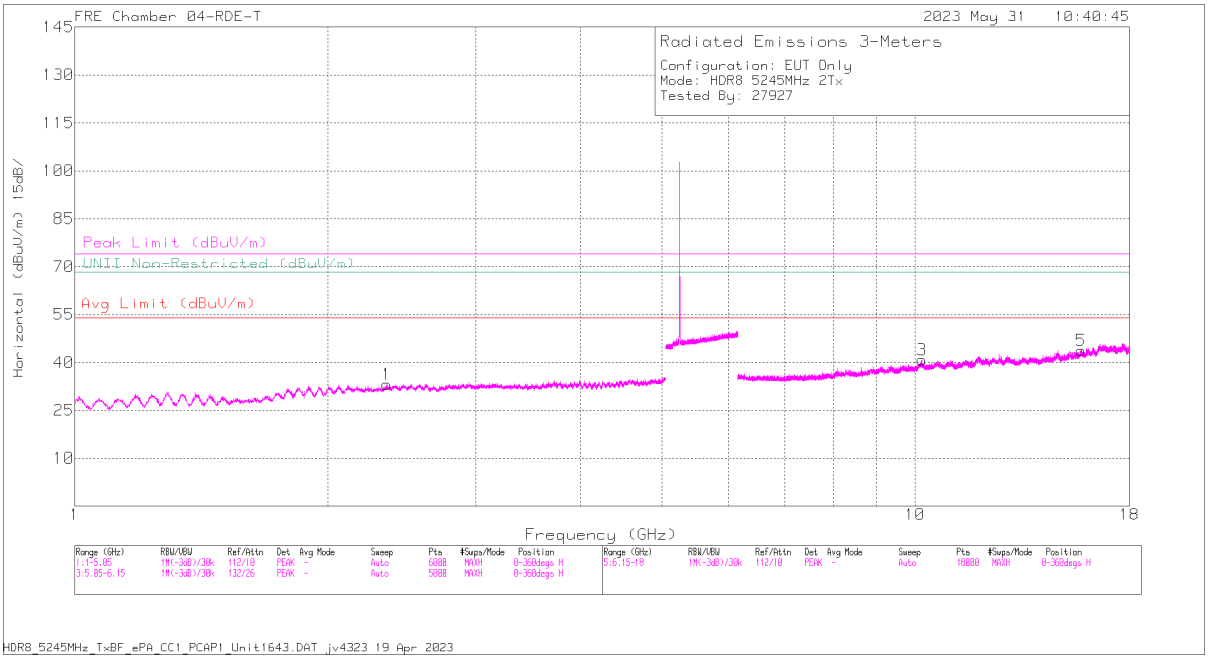
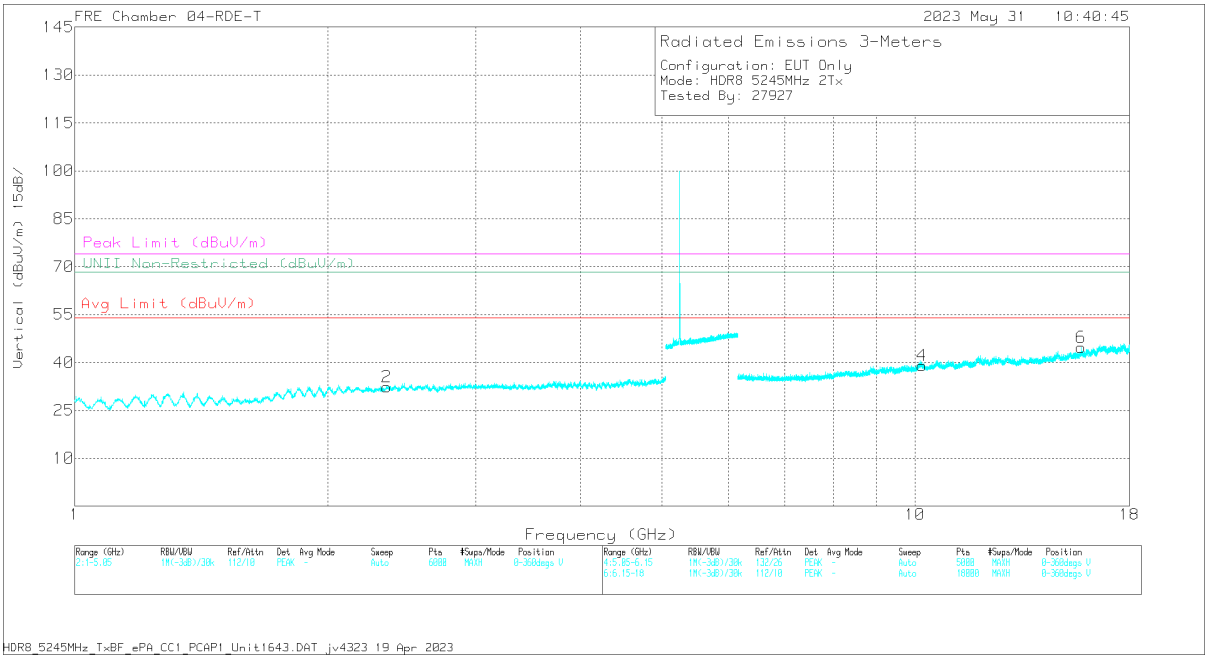
HIGH CHANNEL



HORIZONTAL



VERTICAL

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.351514	58.68	PK-U	32	-47.61	43.07	-	-	74	-30.93	-	-	119	101	H
	* 2.350557	46.81	ADR	32	-47.62	31.19	54	-22.81	-	-	-	-	119	101	H
2	* 2.352399	58.79	PK-U	32	-47.63	43.16	-	-	74	-30.84	-	-	119	101	V
	* 2.352607	46.76	ADR	32	-47.63	31.13	54	-22.87	-	-	-	-	119	101	V
5	* 15.765757	52.83	PK-U	40.7	-41.46	52.07	-	-	74	-21.93	-	-	119	101	H
	* 15.766381	41.34	ADR	40.7	-41.44	40.6	54	-13.4	-	-	-	-	119	101	H
6	* 15.772324	52.82	PK-U	40.7	-41.29	52.23	-	-	74	-21.77	-	-	119	101	V
	* 15.775183	41.04	ADR	40.7	-41.25	40.49	54	-13.51	-	-	-	-	119	101	V
3	10.186518	53.26	PK-U	37.3	-41.31	49.25	-	-	-	-	68.2	-18.95	119	101	H
4	10.188949	53.49	PK-U	37.3	-41.35	49.44	-	-	-	-	68.2	-18.76	119	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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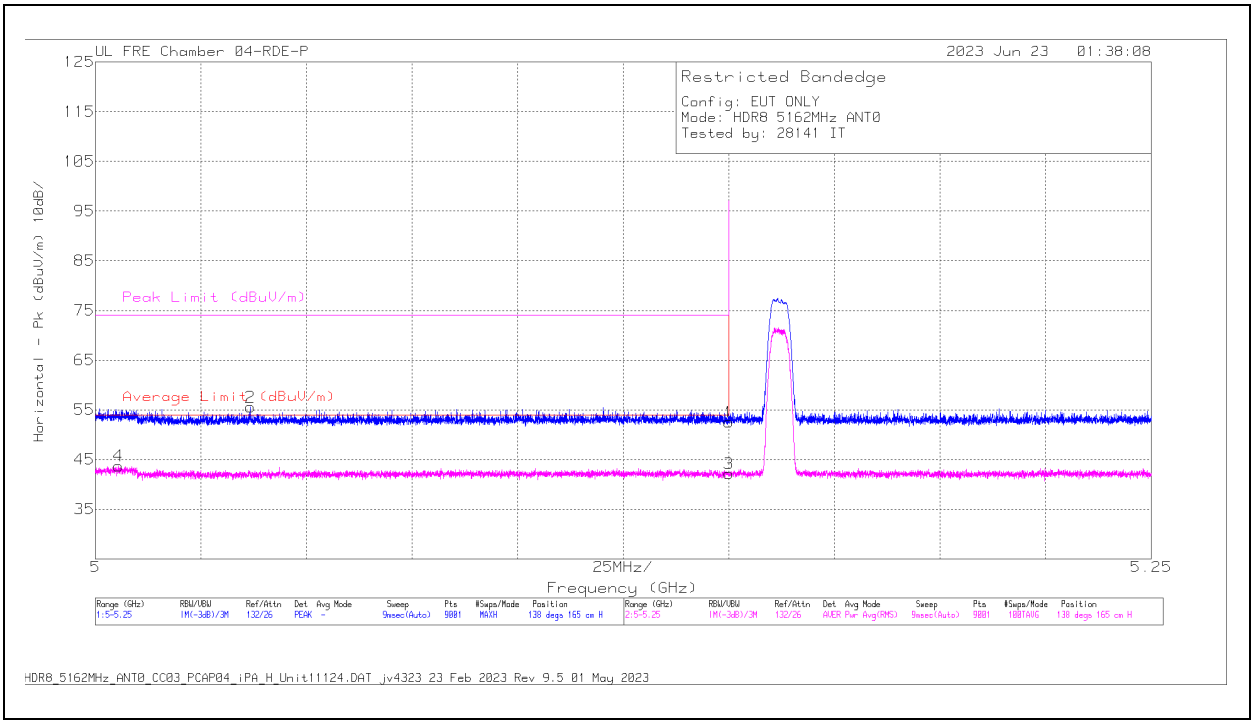
10.1.11 HDR8, LOW POWER UNII-1 BANDEDGE

ANT 6

BANDEDGE (LOW CHANNEL)

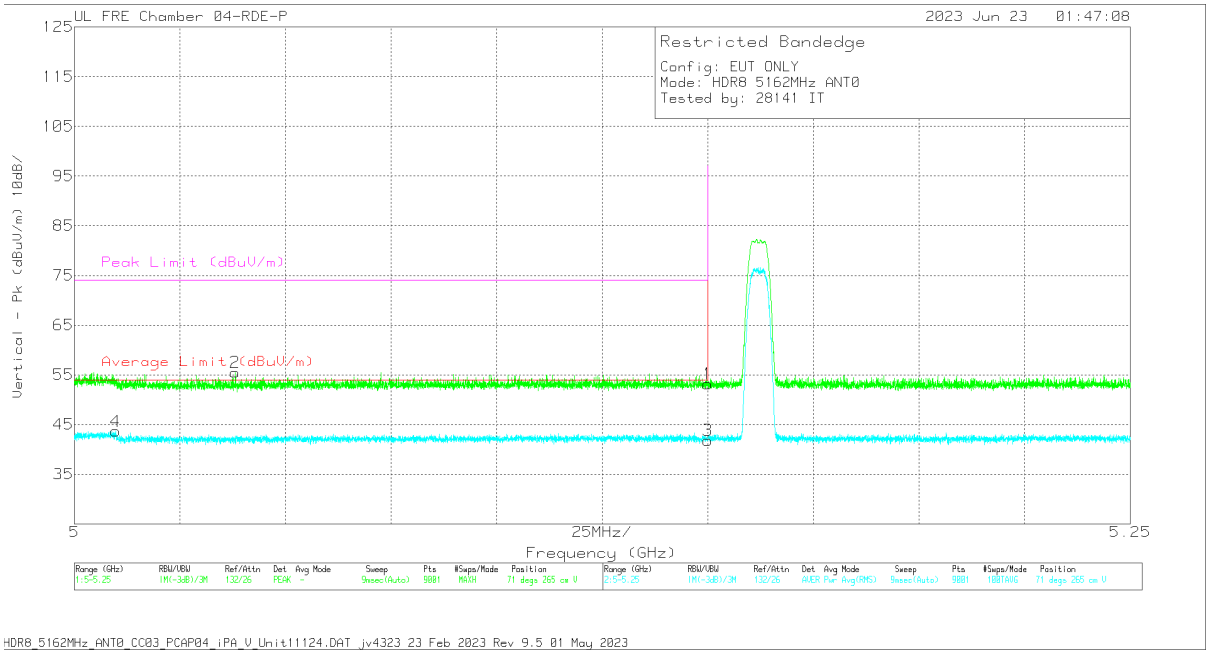
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.0055	48.39	RMS	33.9	-38.57	43.72	54	-10.28	-	-	138	165	H
2	5.036778	60.23	Pk	33.9	-38.59	55.54	-	-	74	-18.46	138	165	H
1	5.15	56.93	Pk	34.1	-38.51	52.52	-	-	74	-21.48	138	165	H
3	5.15	46.56	RMS	34.1	-38.51	42.15	54	-11.85	-	-	138	165	H

Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



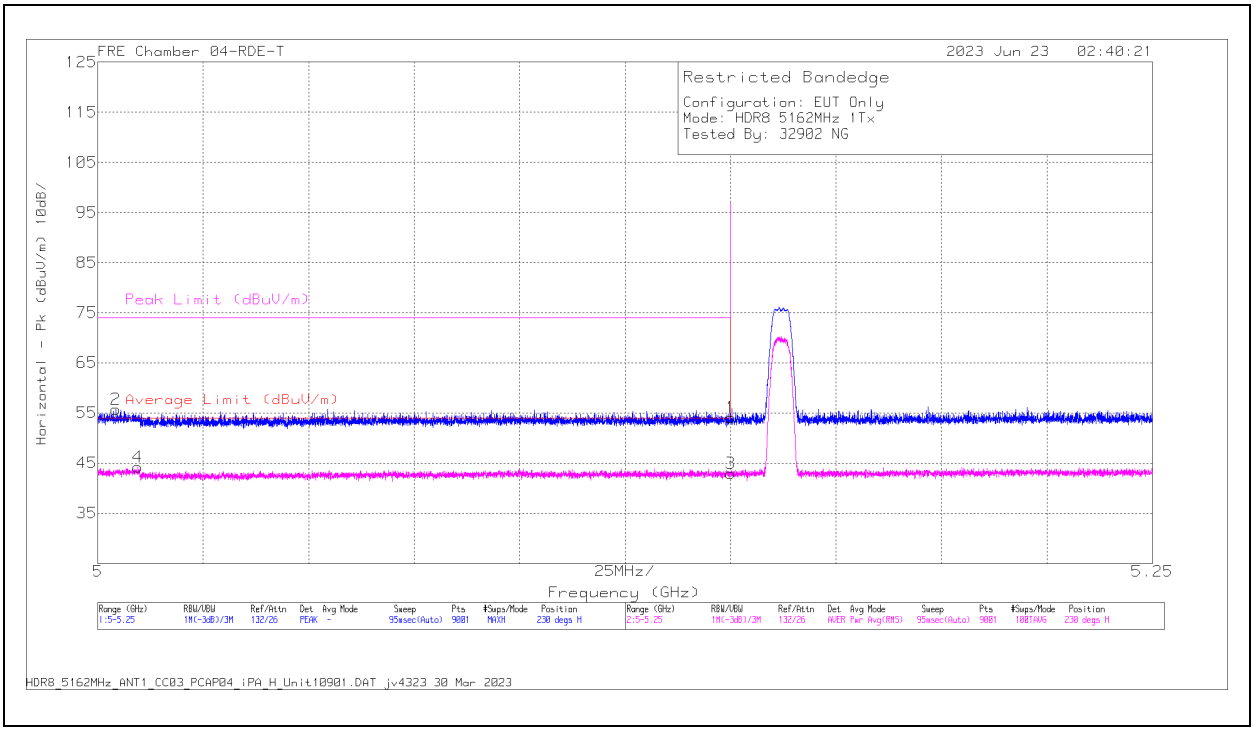
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.009861	48.4	RMS	33.9	-38.64	43.66	54	-10.34	-	-	71	265	V
2	5.038111	60.21	Pk	33.9	-38.58	55.53	-	-	74	-18.47	71	265	V
1	5.15	57.61	Pk	34.1	-38.51	53.2	-	-	74	-20.8	71	265	V
3	5.15	46.24	RMS	34.1	-38.51	41.83	54	-12.17	-	-	71	265	V

Pk - Peak detector
RMS - RMS detection

ANT 5

BANDEDGE (LOW CHANNEL)

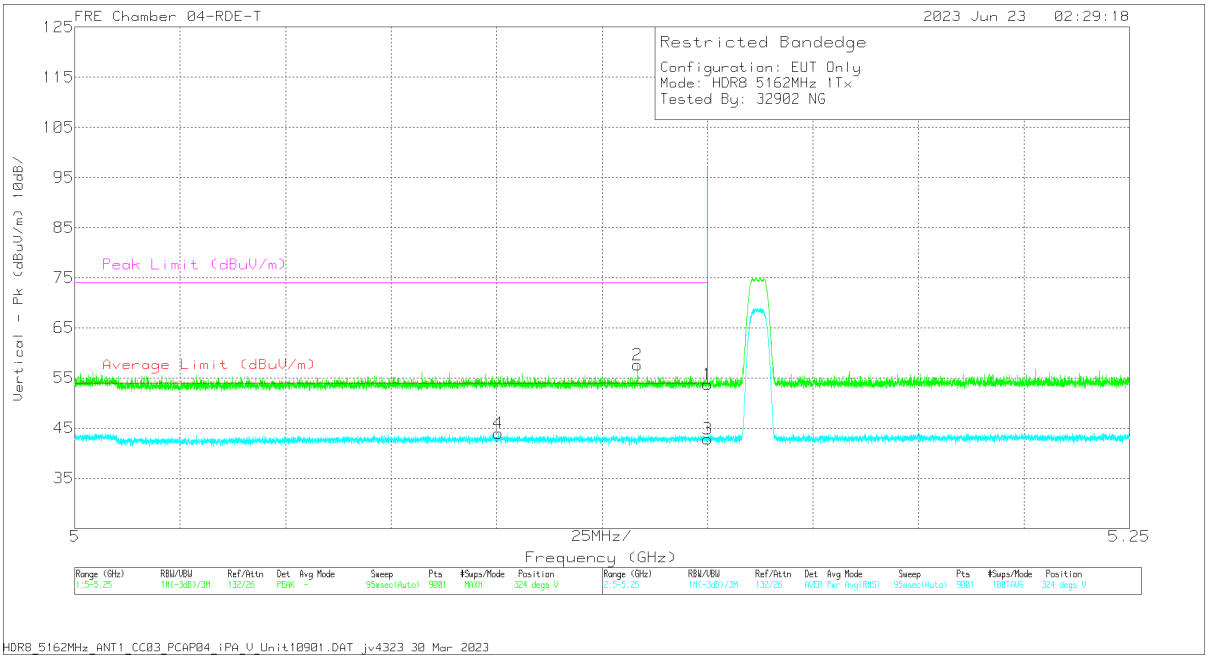
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	55.84	Pk	34.2	-35.9	54.14	-	-	74	-19.86	230	206	H
2	* 5.00425	58.09	Pk	34	-36.39	55.7	-	-	74	-18.3	230	206	H
3	* 5.15	44.66	RMS	34.2	-35.9	42.96	54	-11.04	-	-	230	206	H
4	* 5.009472	46.6	RMS	34	-36.39	44.21	54	-9.79	-	-	230	206	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



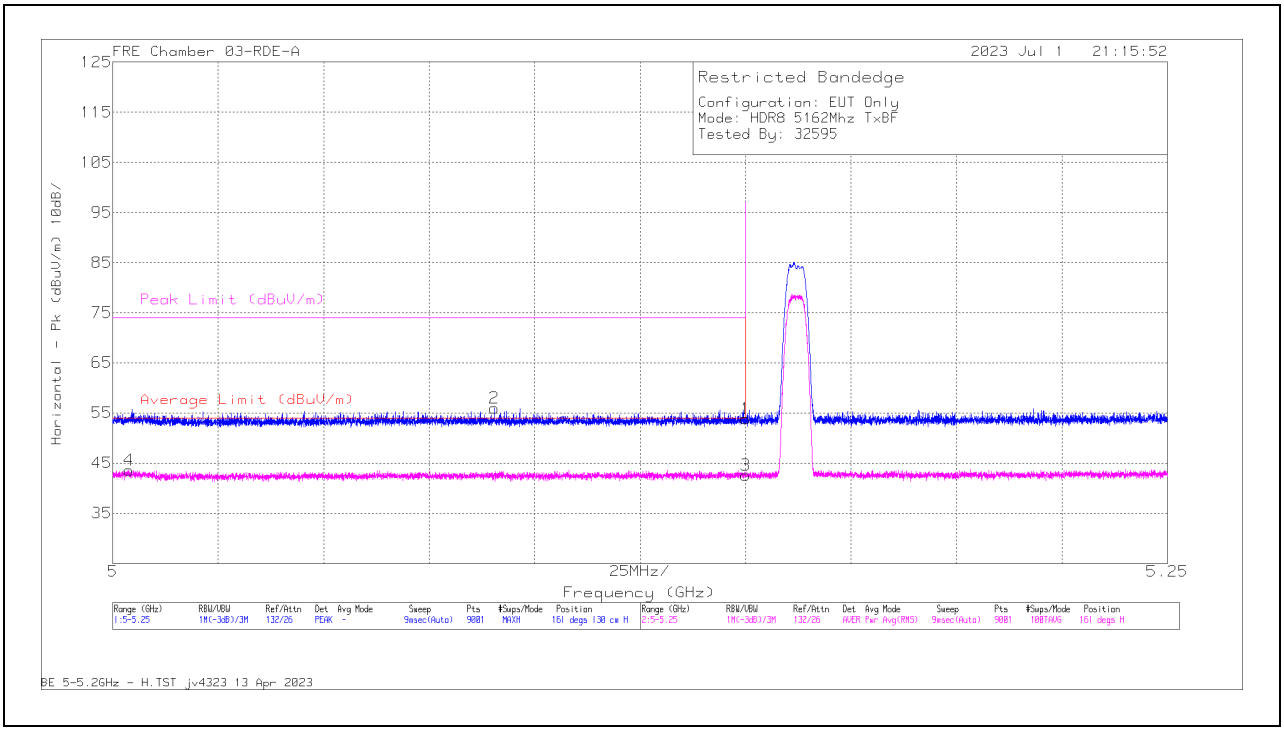
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	55.47	Pk	34.2	-35.9	53.77	-	-	74	-20.23	324	146	V
2	* 5.133418	59.34	Pk	34.2	-35.96	57.58	-	-	74	-16.42	324	146	V
3	* 5.15	44.58	RMS	34.2	-35.9	42.88	54	-11.12	-	-	324	146	V
4	* 5.100417	45.97	RMS	34.1	-36.06	44.01	54	-9.99	-	-	324	146	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

2TX Antenna 6 + Antenna 5 TXBF MODE

BANDEDGE (LOW CHANNEL)

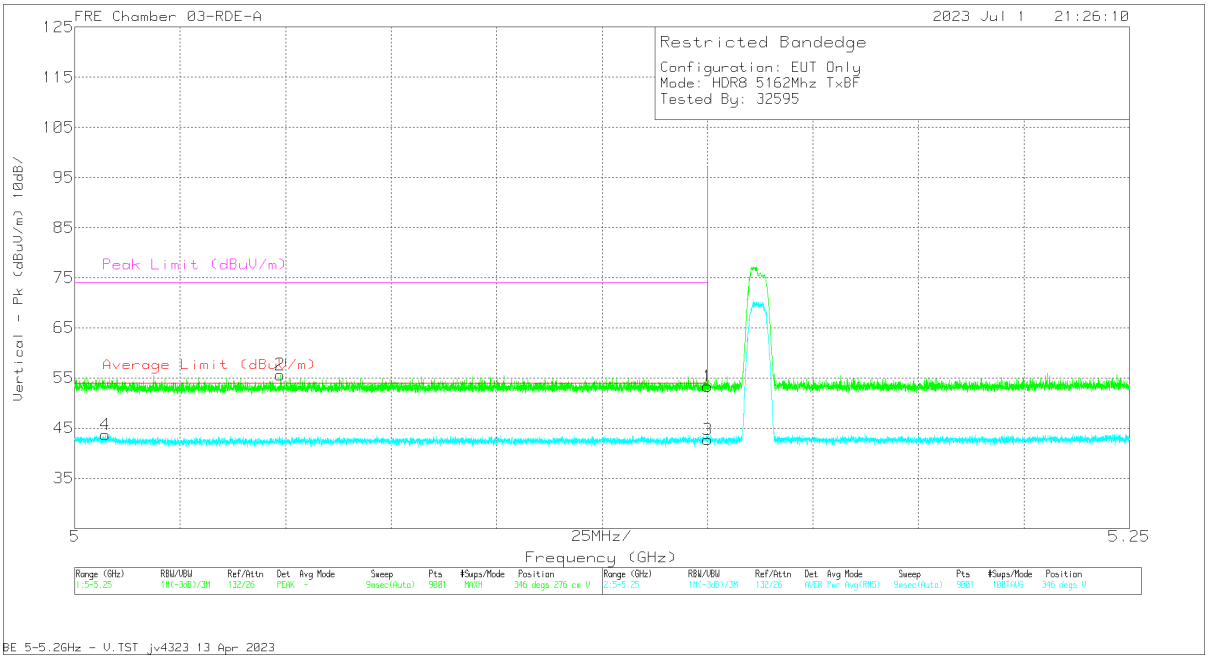
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.96	Pk	34.6	0	-38.69	53.87	-	-	74	-20.13	161	130	H
2	* 5.090445	60.26	Pk	34.5	0	-38.82	55.94	-	-	74	-18.06	161	130	H
3	* 5.15	46.72	RMS	34.6	0	-38.69	42.63	54	-11.37	-	-	161	130	H
4	* 5.003889	48.17	RMS	34.4	0	-38.94	43.63	54	-10.37	-	-	161	130	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT

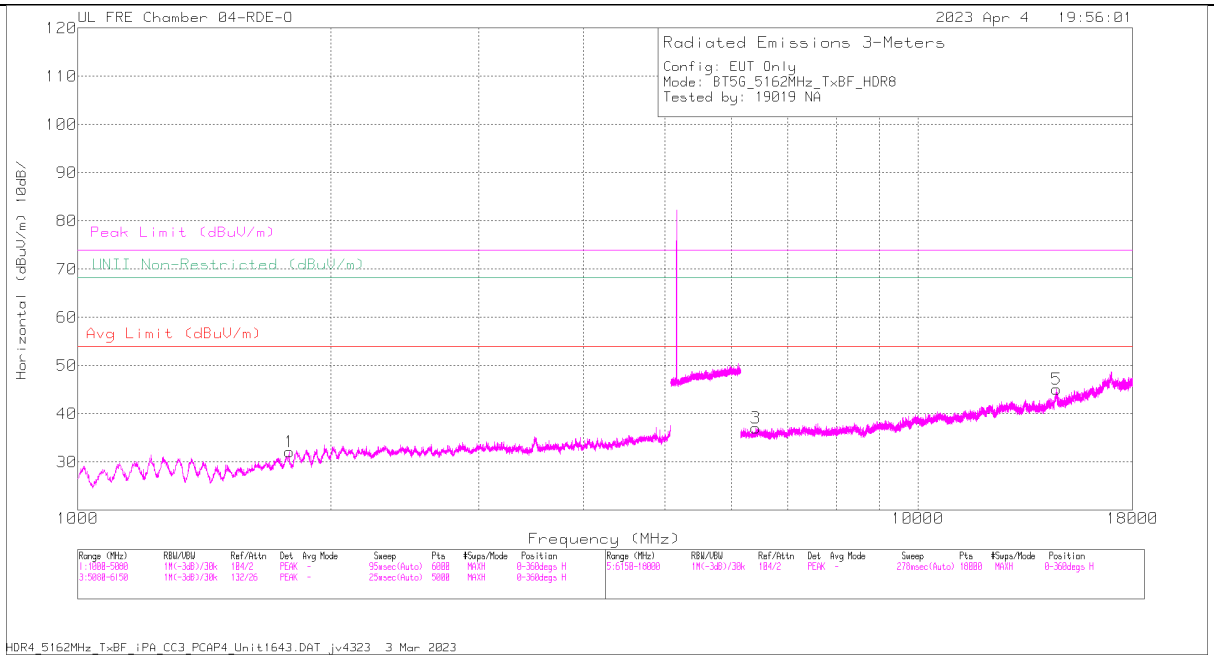


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.47	Pk	34.6	0	-38.69	53.38	-	-	74	-20.62	346	276	V
2	* 5.048723	60.23	Pk	34.4	0	-38.97	55.66	-	-	74	-18.34	346	276	V
3	* 5.15	46.82	RMS	34.6	0	-38.69	42.73	54	-11.27	-	-	346	276	V
4	* 5.007278	48.3	RMS	34.4	0	-38.99	43.71	54	-10.29	-	-	346	276	V

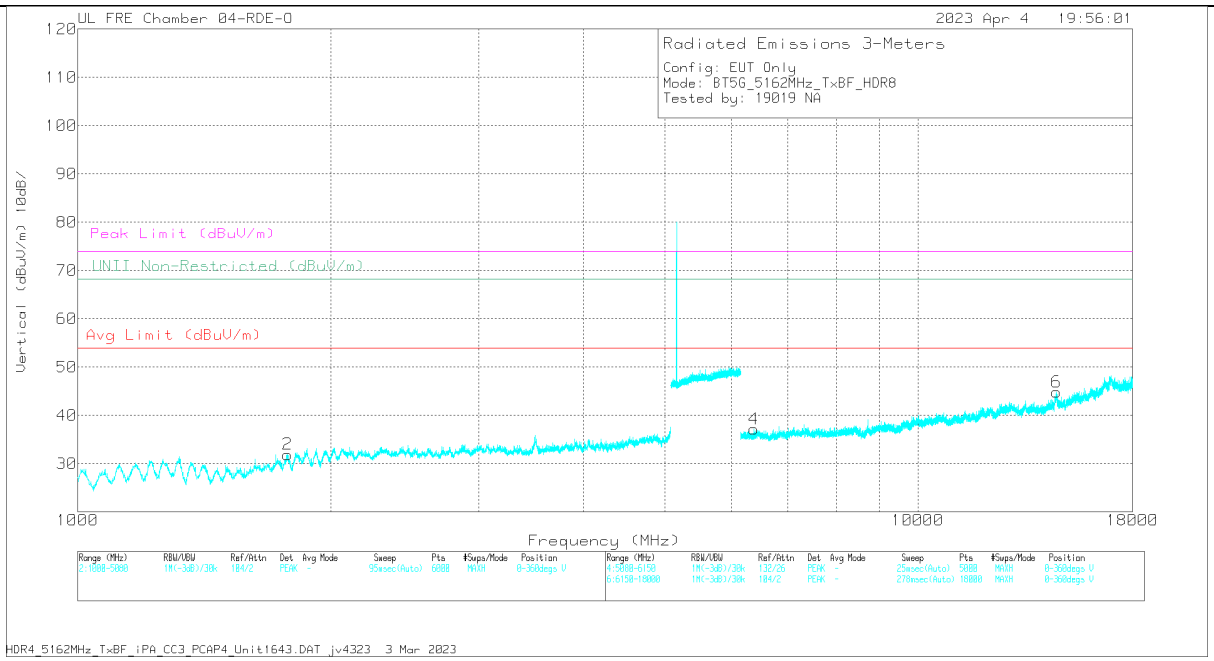
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

10.1.12 HDR8, LOW POWER UNII-1 HARMONIC AND SPURIOUS IN THE 5.2 GHz BAND

LOW CHANNEL



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	1779.707	58.3	PK-U	30.3	-46.67	41.93	68.2	-26.27	158	140	V
1	1784.896	57.65	PK-U	30.3	-46.75	41.2	68.2	-27	124	166	H
4	6379.756	54.15	PK-U	35.7	-43.04	46.81	68.2	-21.39	137	149	V
3	6414.785	53.67	PK-U	35.6	-42.87	46.4	68.2	-21.8	209	164	H
6	14609.876	52.83	PK-U	39.7	-38.29	54.24	68.2	-13.96	107	176	V
5	14620.789	52.73	PK-U	39.7	-38.12	54.31	68.2	-13.89	192	161	H

PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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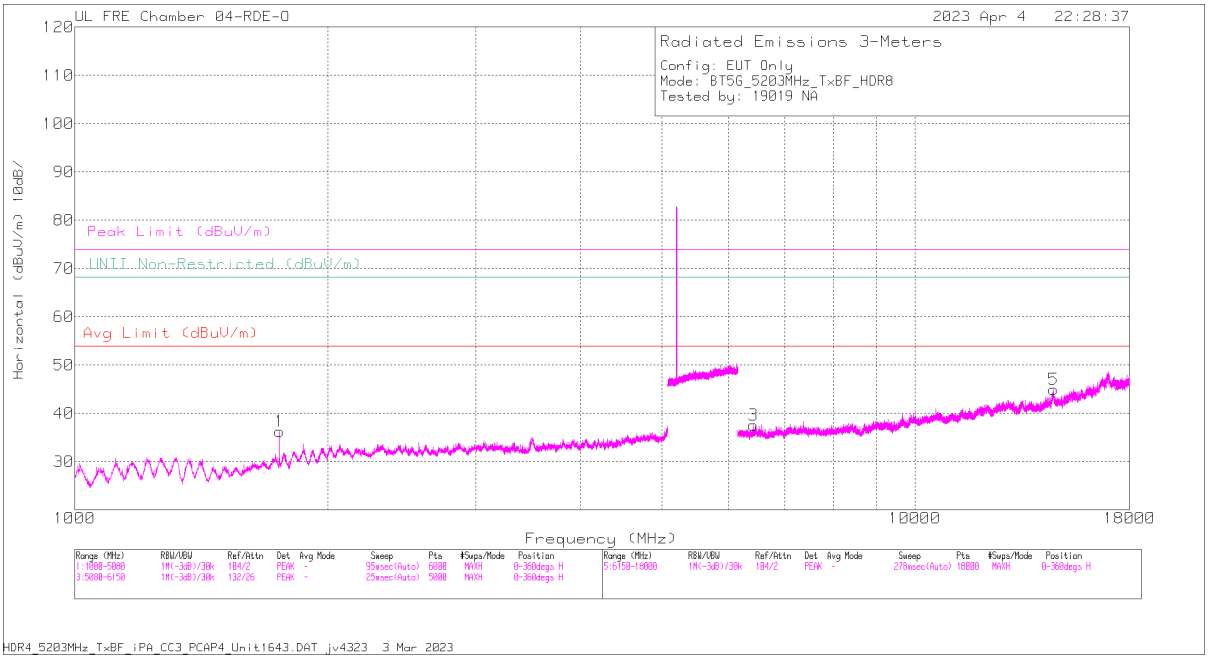
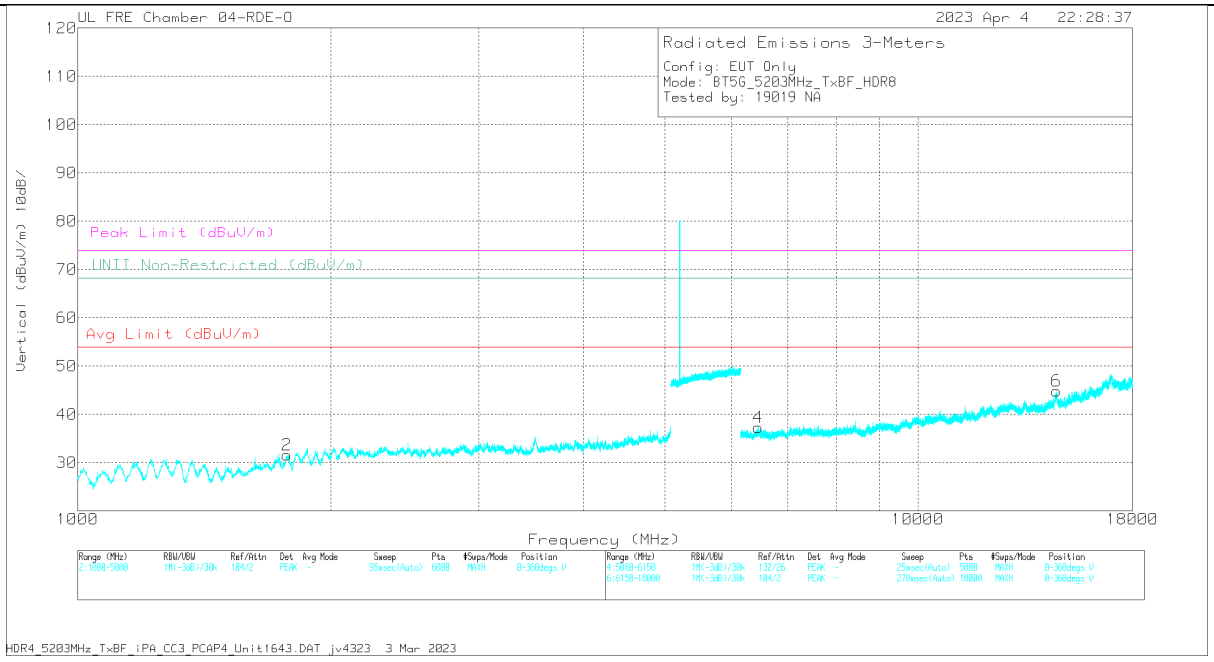
MID CHANNEL



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF (dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1757.803	56.2	PK-U	30.1	-46.62	39.68	68.2	-28.52	284	277	H
2	1774.827	58.18	PK-U	30.3	-46.78	41.7	68.2	-26.5	212	159	V
3	6425.169	53.7	PK-U	35.6	-42.71	46.59	68.2	-21.61	173	115	H
4	6457.775	53.59	PK-U	35.6	-42.16	47.03	68.2	-21.17	111	225	V
6	14615.825	52.95	PK-U	39.7	-38.03	54.62	68.2	-13.58	91	223	V
5	14623.59	52.8	PK-U	39.7	-38.23	54.27	68.2	-13.93	143	143	H

PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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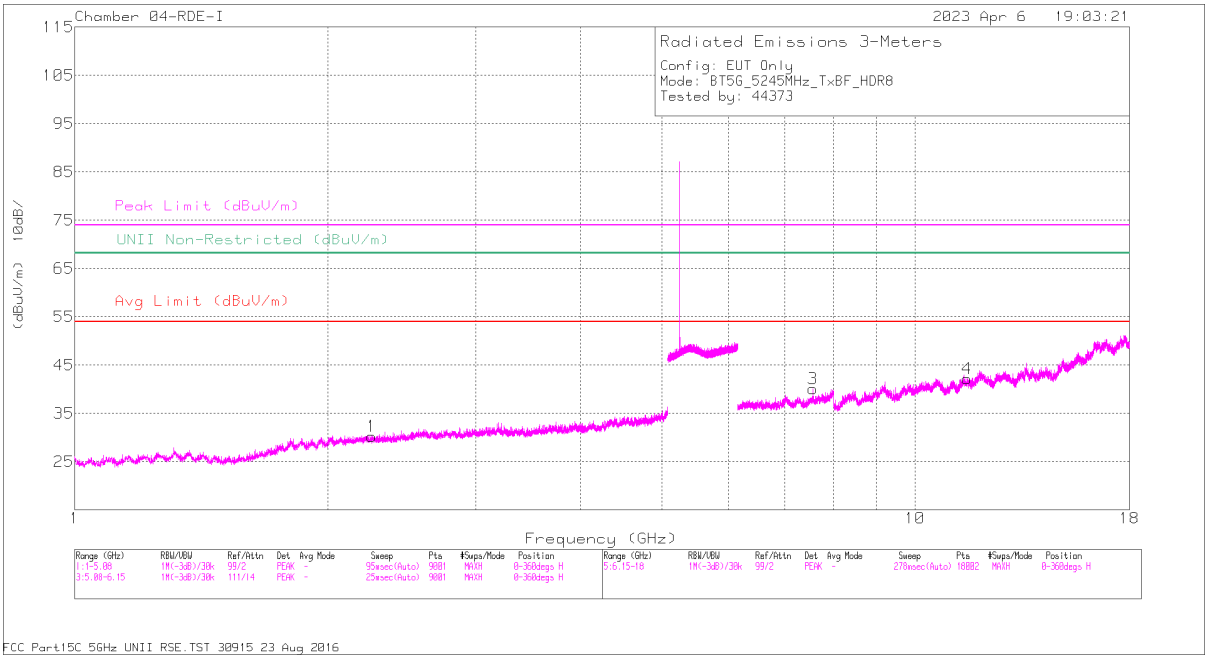
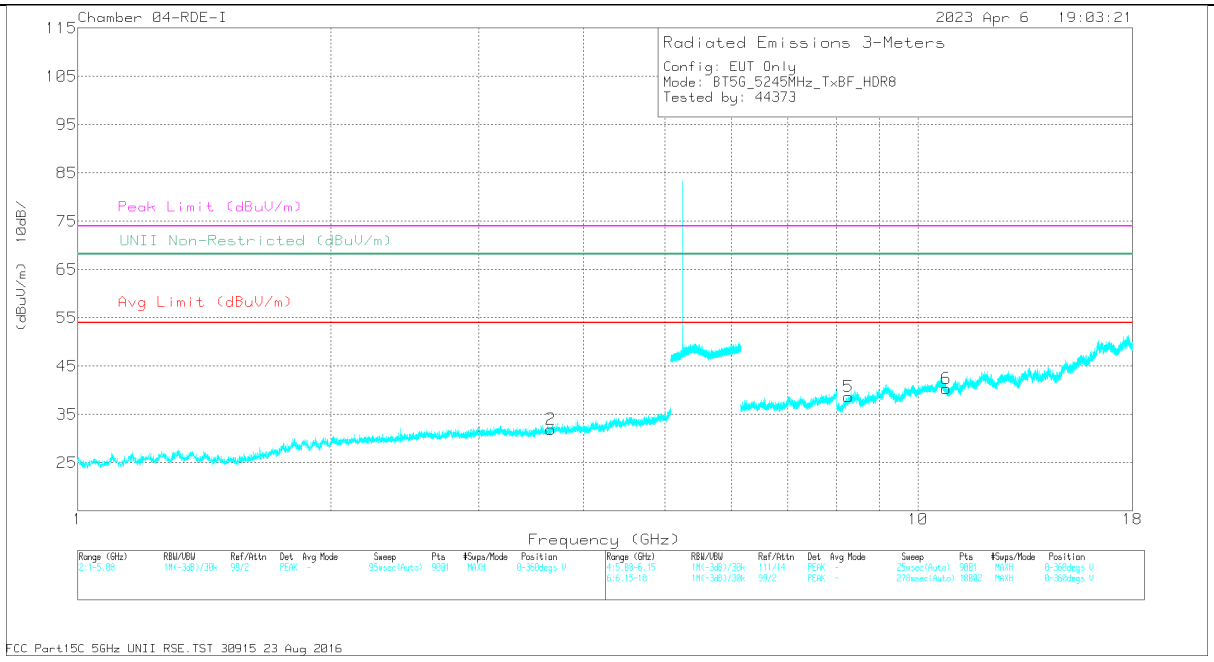
HIGH CHANNEL



HORIZONTAL



VERTICAL

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RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Amp/Cbl/Fltr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.254188	40.28	PK-U	31.8	-31.5	40.58	-	-	74	-33.42	0	200	H
	* 2.254562	28.69	ADR	31.8	-31.5	28.99	54	-25.01	-	-	0	200	H
2	* 3.657802	38.46	PK-U	33.1	-29.7	41.86	-	-	74	-32.14	0	101	V
	* 3.656031	26.97	ADR	33.1	-29.7	30.37	54	-23.63	-	-	0	101	V
3	* 7.559163	33.02	PK-U	35.7	-20.8	47.92	-	-	74	-26.08	314	333	H
	* 7.559709	20.91	ADR	35.7	-20.8	35.81	54	-18.19	-	-	314	333	H
4	* 11.545323	31.45	PK-U	38.1	-18.2	51.35	-	-	74	-22.65	314	101	H
	* 11.54296	20.18	ADR	38.1	-18.2	40.08	54	-13.92	-	-	314	101	H
5	* 8.263939	32.61	PK-U	35.9	-20.3	48.21	-	-	74	-25.79	314	200	V
	* 8.266243	20.55	ADR	35.9	-20.2	36.25	54	-17.75	-	-	314	200	V
6	* 10.814935	30.99	PK-U	37.6	-18.2	50.39	-	-	74	-23.61	314	200	V
	* 10.81791	19.33	ADR	37.6	-18.3	38.63	54	-15.37	-	-	314	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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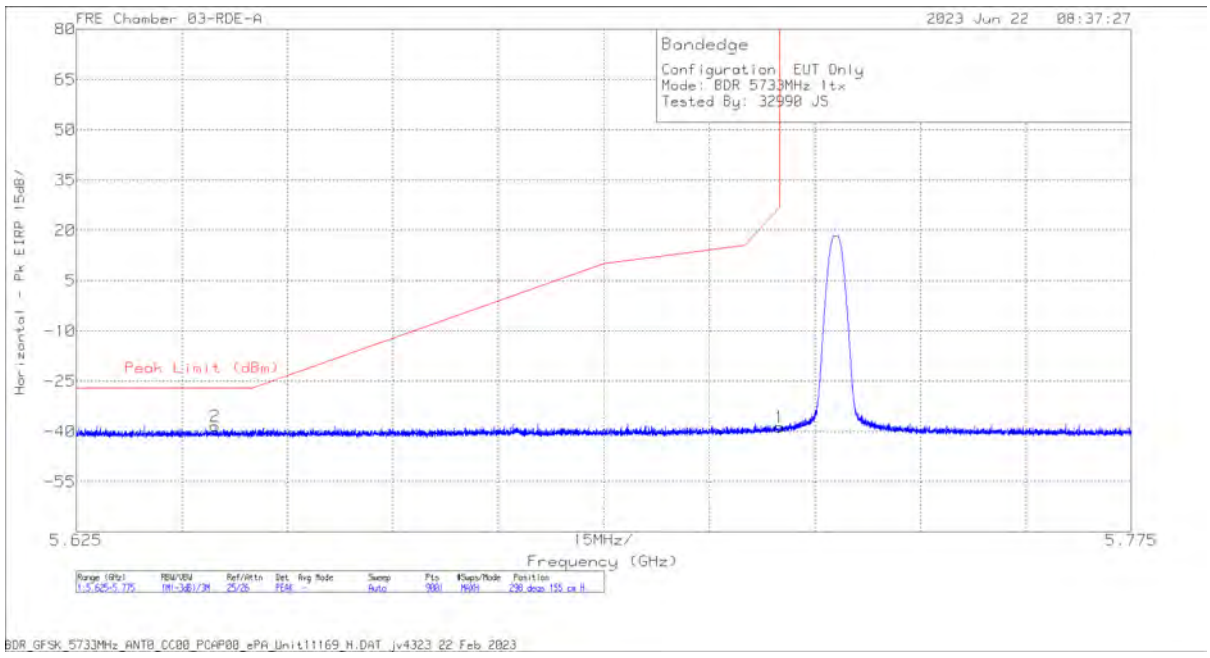
10.1.13 BDR, HIGH POWER UNII-3 BANDEDGE

ANT 6

BANDEDGE (LOW CHANNEL)

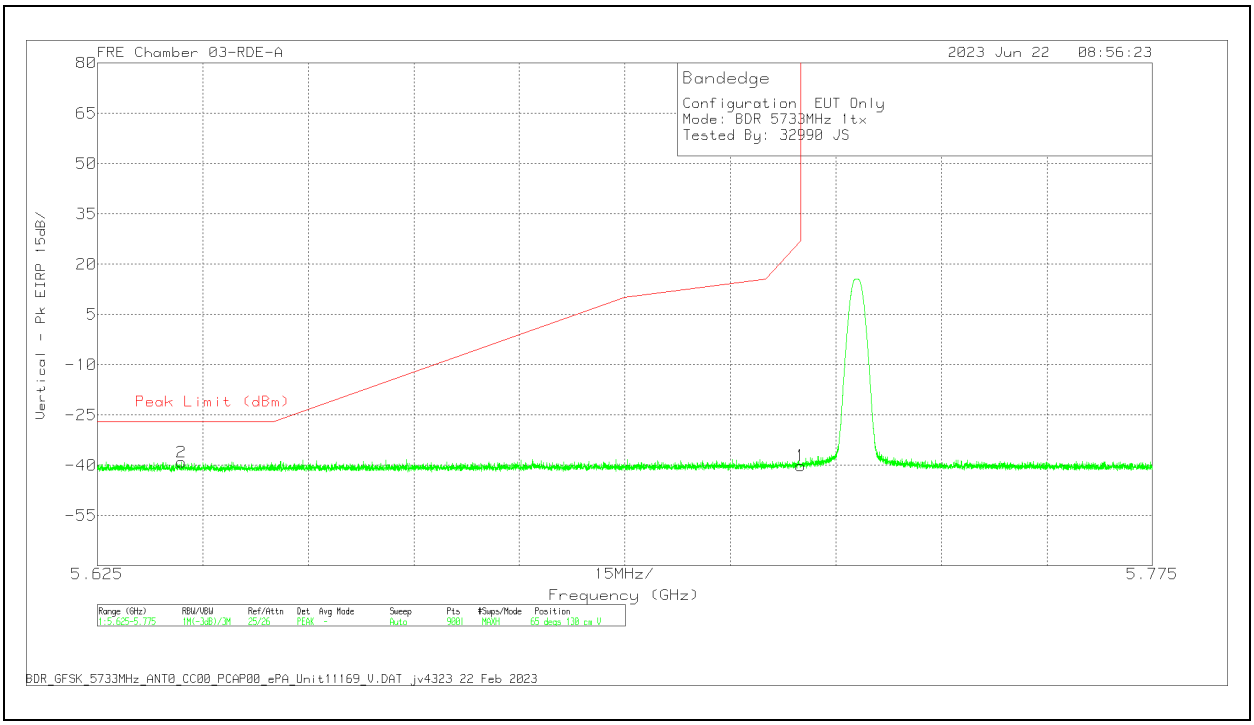
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.644767	-47.45	Pk	35.2	11.8	0	-37.92	-38.37	-27	-11.37	298	155	H
1	5.725	-47.96	Pk	35.2	11.8	0	-37.78	-38.74	27	-65.74	298	155	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.636984	-48.16	Pk	35.2	11.8	0	-37.93	-39.09	-27	-12.09	65	130	V
1	5.725	-49.4	Pk	35.2	11.8	0	-37.78	-40.18	27	-67.18	65	130	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

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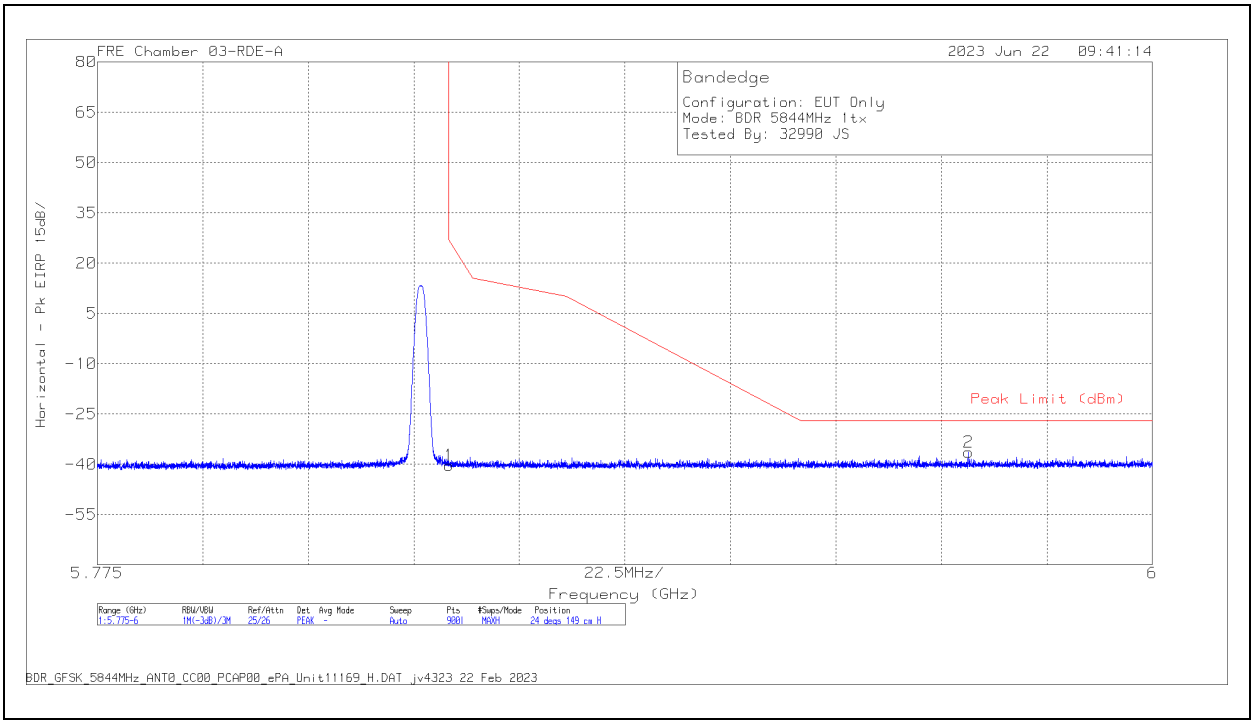
BANDEDGE (HIGH CHANNEL)

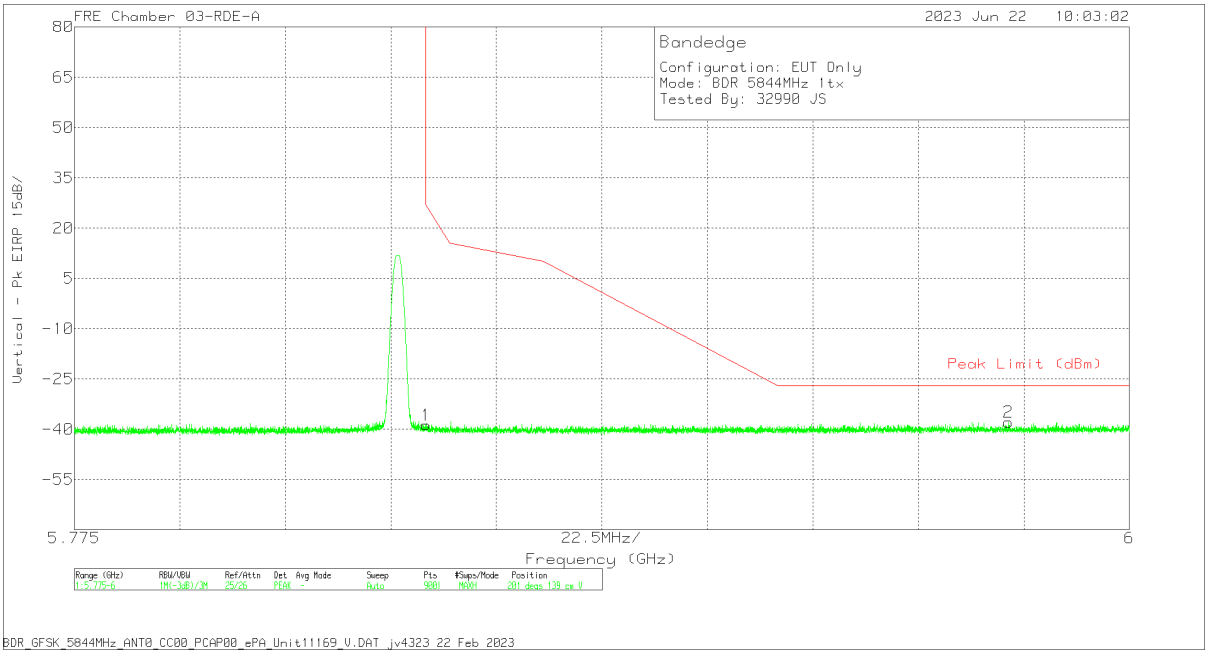
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-49.77	Pk	35.2	11.8	0	-37.49	-40.26	27	-67.26	24	149	H
2	5.96085	-46.3	Pk	35.4	11.8	0	-37.26	-36.36	-27	-9.36	24	149	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-48.25	Pk	35.2	11.8	0	-37.49	-38.74	27	-65.74	201	139	V
2	5.97425	-47.79	Pk	35.4	11.8	0	-37.24	-37.83	-27	-10.83	201	139	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

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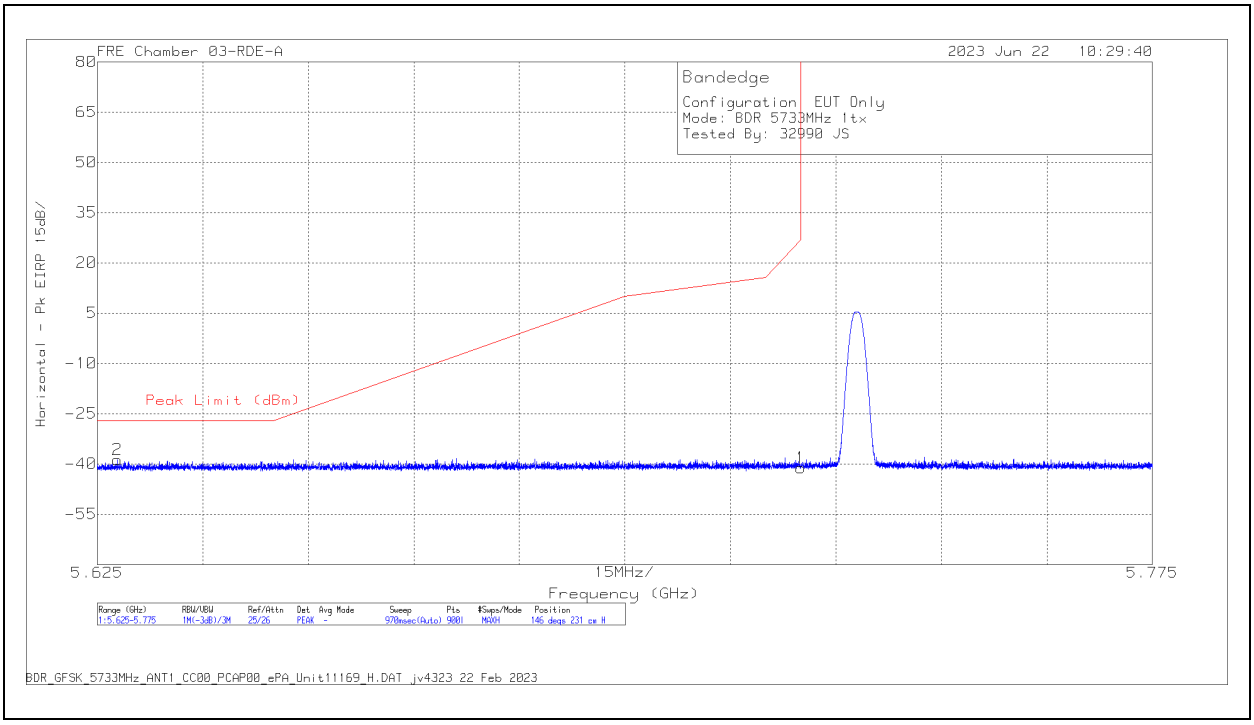
ANT 5

BANDEDGE (LOW CHANNEL)

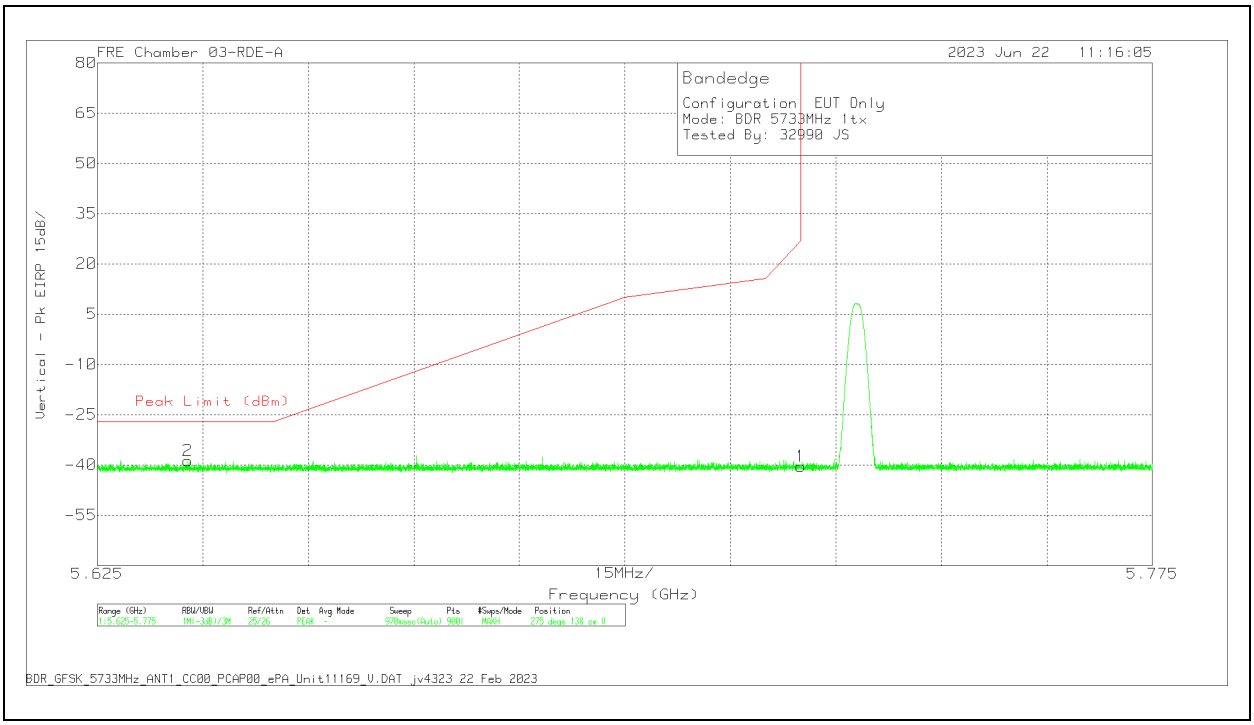
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.62785	-47.67	Pk	35.1	11.8	0	-37.96	-38.73	-27	-11.73	146	231	H
1	5.725	-50.3	Pk	35.2	11.8	0	-37.78	-41.08	27	-68.08	146	231	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

VERTICAL RESULT

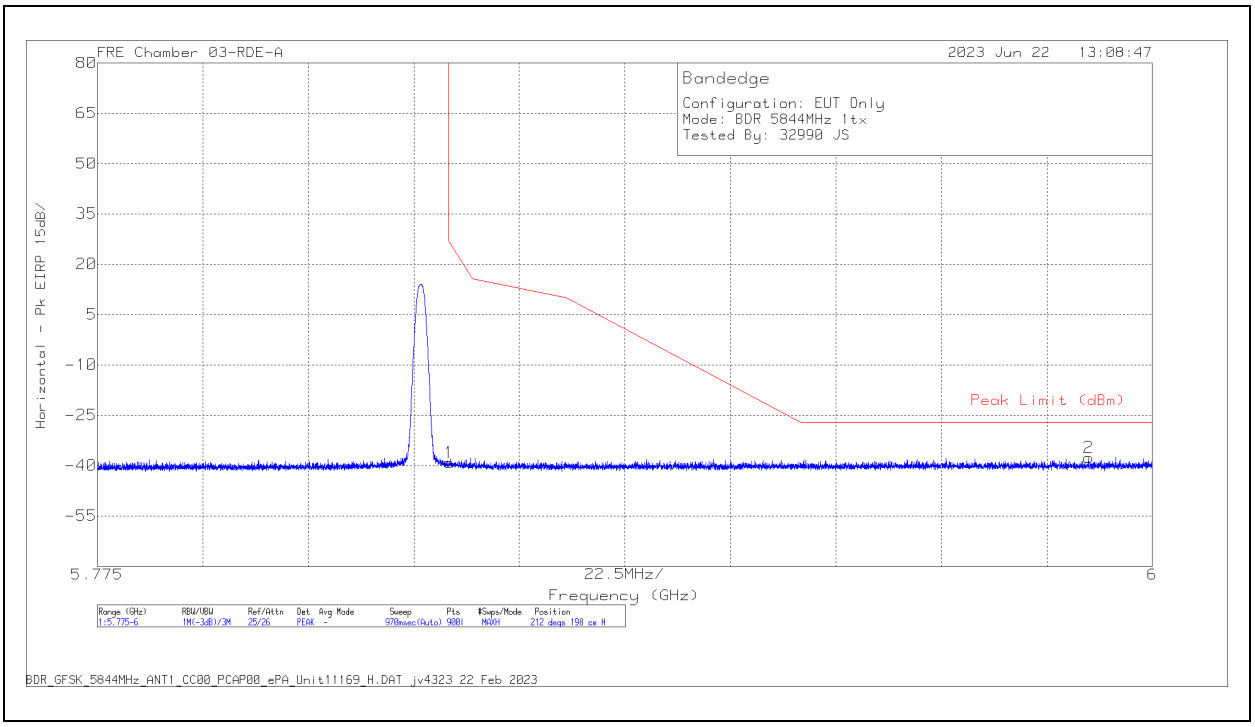


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.637884	-47.73	Pk	35.2	11.8	0	-37.95	-38.68	-27	-11.68	275	138	V
1	5.725	-49.63	Pk	35.2	11.8	0	-37.78	-40.41	27	-67.41	275	138	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-48.61	Pk	35.2	11.8	0	-37.49	-39.1	27	-66.1	212	198	H
2	5.98635	-47.48	Pk	35.4	11.8	0	-37.24	-37.52	-27	-10.52	212	198	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

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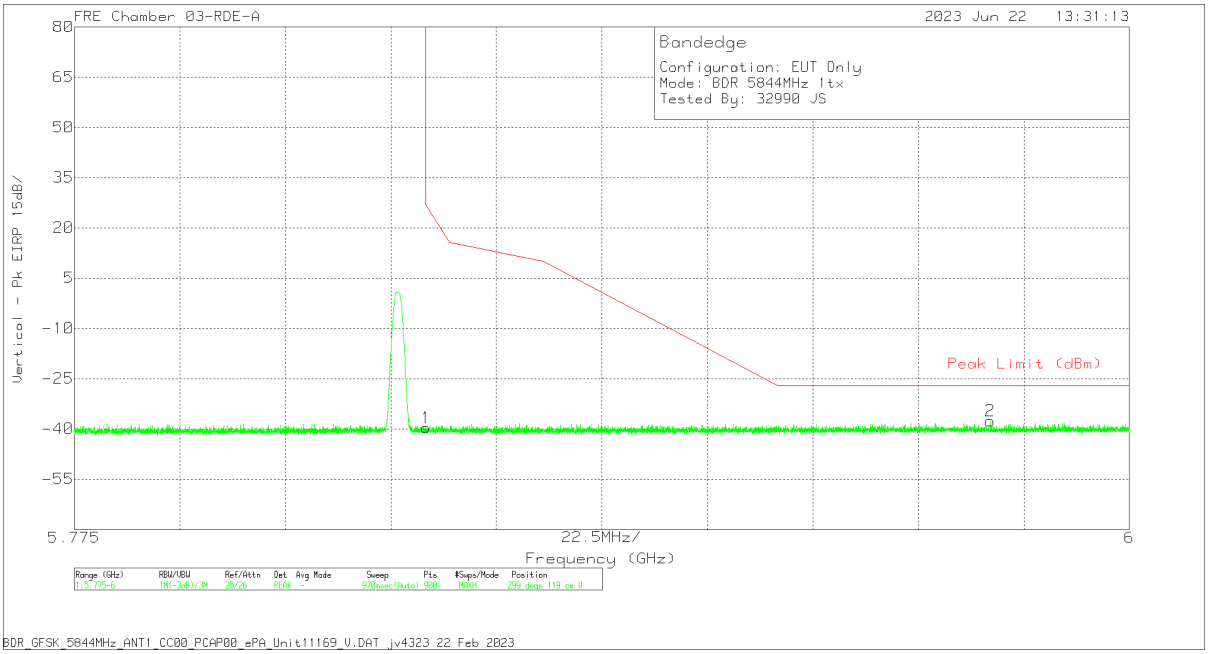
VERTICAL RESULT



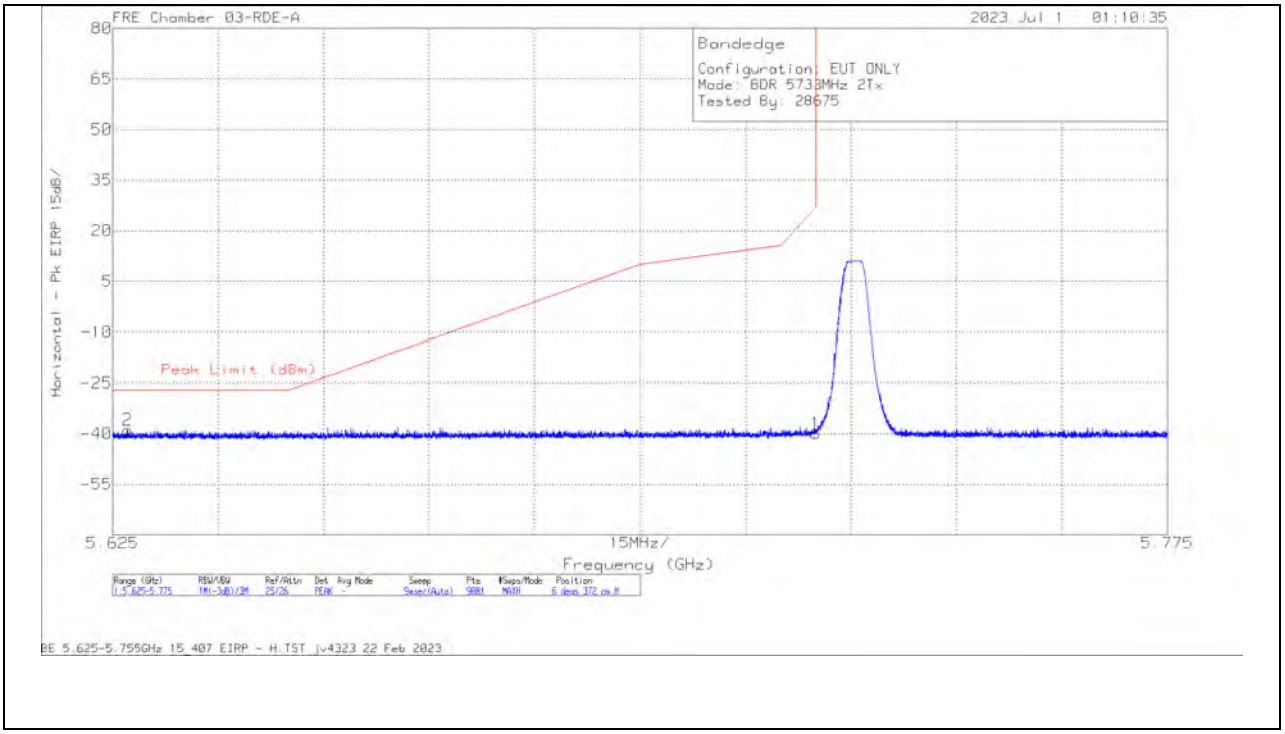
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-49.08	Pk	35.2	11.8	0	-37.49	-39.57	27	-66.57	299	119	V
2	5.970375	-47.55	Pk	35.4	11.8	0	-37.27	-37.62	-27	-10.62	299	119	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

2TX Antenna 6 + Antenna 5 TXBF MODE

BANDEDGE (LOW CHANNEL)

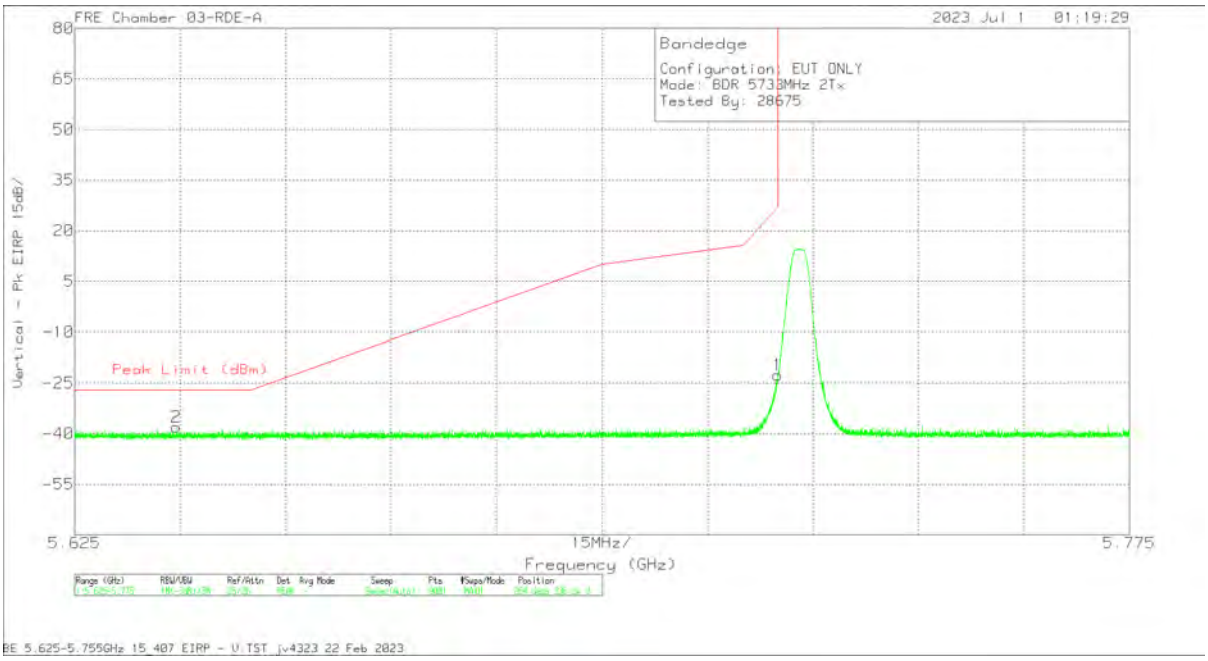
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.6271	-47.78	Pk	35.1	11.8	-37.96	-38.84	-27	-11.84	6	372	H
1	5.725	-49.05	Pk	35.2	11.8	-37.78	-39.83	27	-66.83	6	372	H

Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63945	-47.1	Pk	35.2	11.8	-37.97	-38.07	-27	-11.07	264	336	V
1	5.725	-31.79	Pk	35.2	11.8	-37.78	-22.57	27	-49.57	264	336	V

Pk - Peak detector

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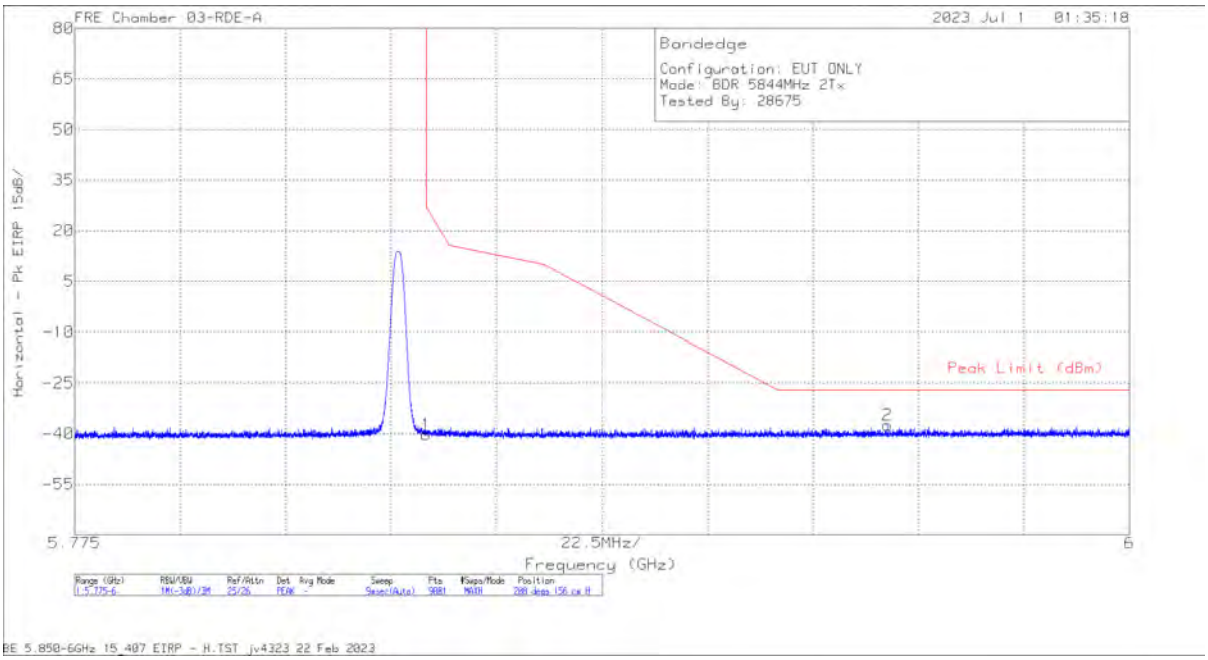
BANDEDGE (HIGH CHANNEL)

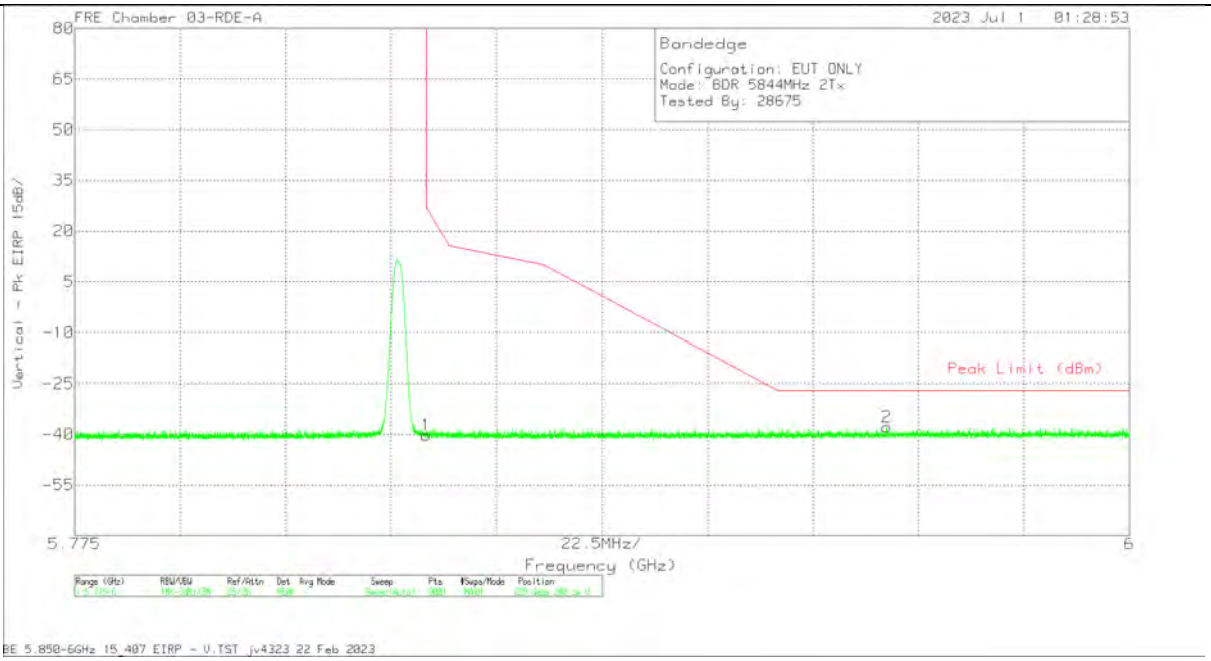
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-49.74	Pk	35.2	11.8	-37.49	-40.23	27	-67.23	288	156	H
2	5.94835	-47.23	Pk	35.3	11.8	-37.27	-37.4	-27	-10.4	288	156	H

Pk - Peak detector

VERTICAL RESULT

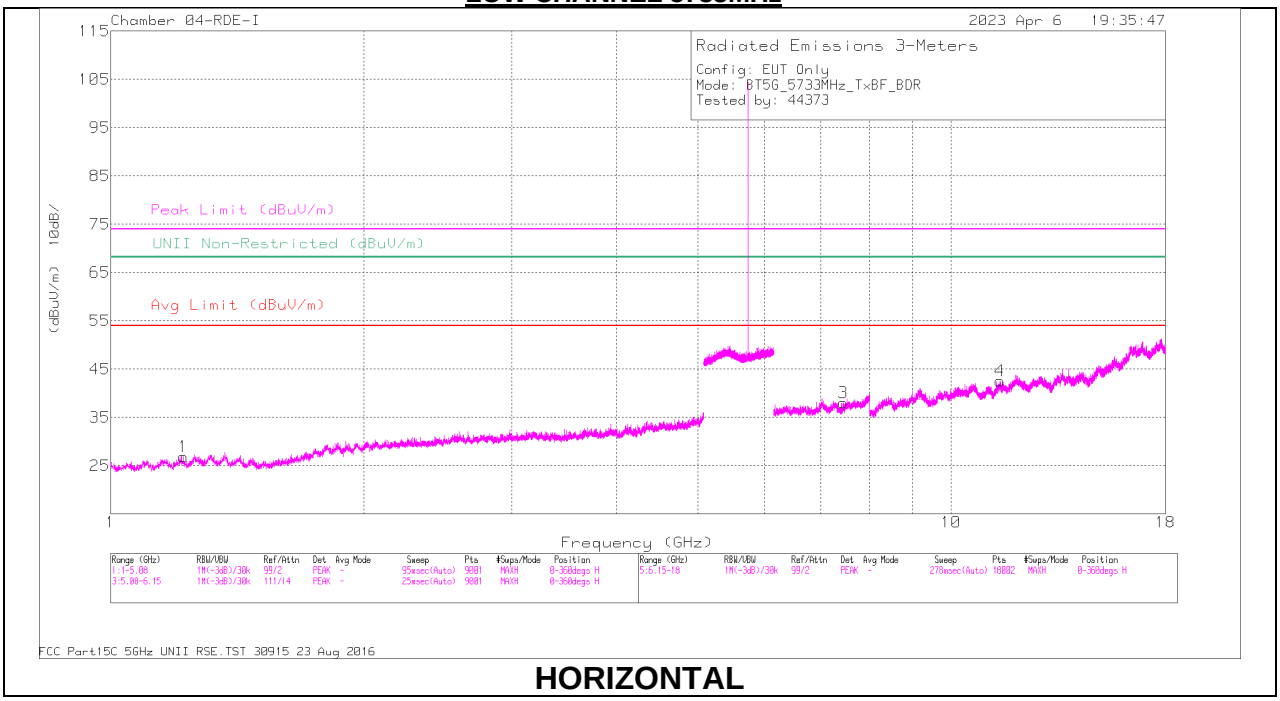


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-49.82	Pk	35.2	11.8	-37.49	-40.31	27	-67.31	229	240	V
2	5.9482	-47.56	Pk	35.3	11.8	-37.27	-37.73	-27	-10.73	229	240	V

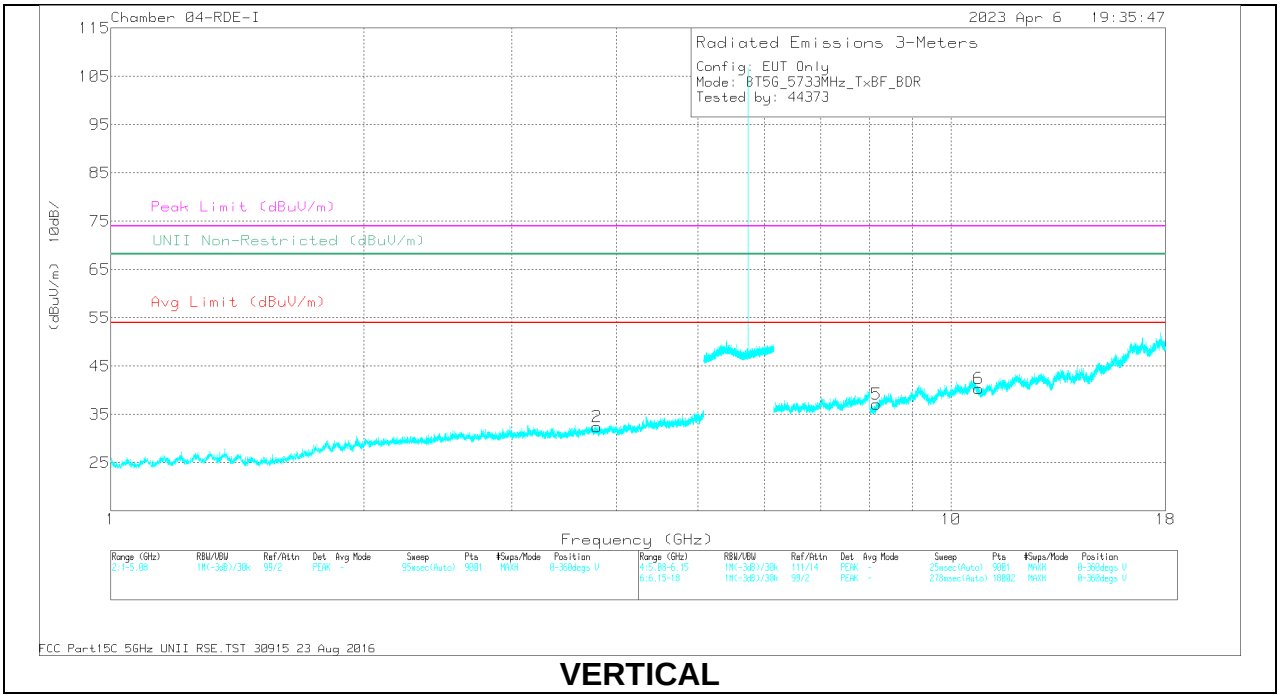
Pk - Peak detector

10.1.14 BDR, HIGH POWER, UNII-3, HARMONIC AND SPURIOUS IN THE 5.8 GHz BAND

LOW CHANNEL 5733MHz



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Amp/Cbl /Fltr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.218862	41.5	PK-U	28.3	-33.4	36.4	-	-	74	-37.6	0	101	H
	* 1.220517	30	ADR	28.3	-33.3	25	54	-29	-	-	0	101	H
2	* 3.789635	38.94	PK-U	33.3	-29.6	42.64	-	-	74	-31.36	0	101	V
	* 3.789634	27.14	ADR	33.3	-29.6	30.84	54	-23.16	-	-	0	101	V
3	* 7.450071	33.53	PK-U	35.6	-21.4	47.73	-	-	74	-26.27	0	200	H
	* 7.450716	21.36	ADR	35.6	-21.4	35.56	54	-18.44	-	-	0	200	H
4	* 11.431684	31.68	PK-U	37.9	-17.7	51.88	-	-	74	-22.12	0	101	H
	* 11.431946	20.24	ADR	37.9	-17.7	40.44	54	-13.56	-	-	0	101	H
5	* 8.153096	31.51	PK-U	35.8	-19.9	47.41	-	-	74	-26.59	0	200	V
	* 8.153481	19.84	ADR	35.8	-19.9	35.74	54	-18.26	-	-	0	200	V
6	* 10.787836	31.19	PK-U	37.6	-18.5	50.29	-	-	74	-23.71	0	101	V
	* 10.786534	19.77	ADR	37.6	-18.6	38.77	54	-15.23	-	-	0	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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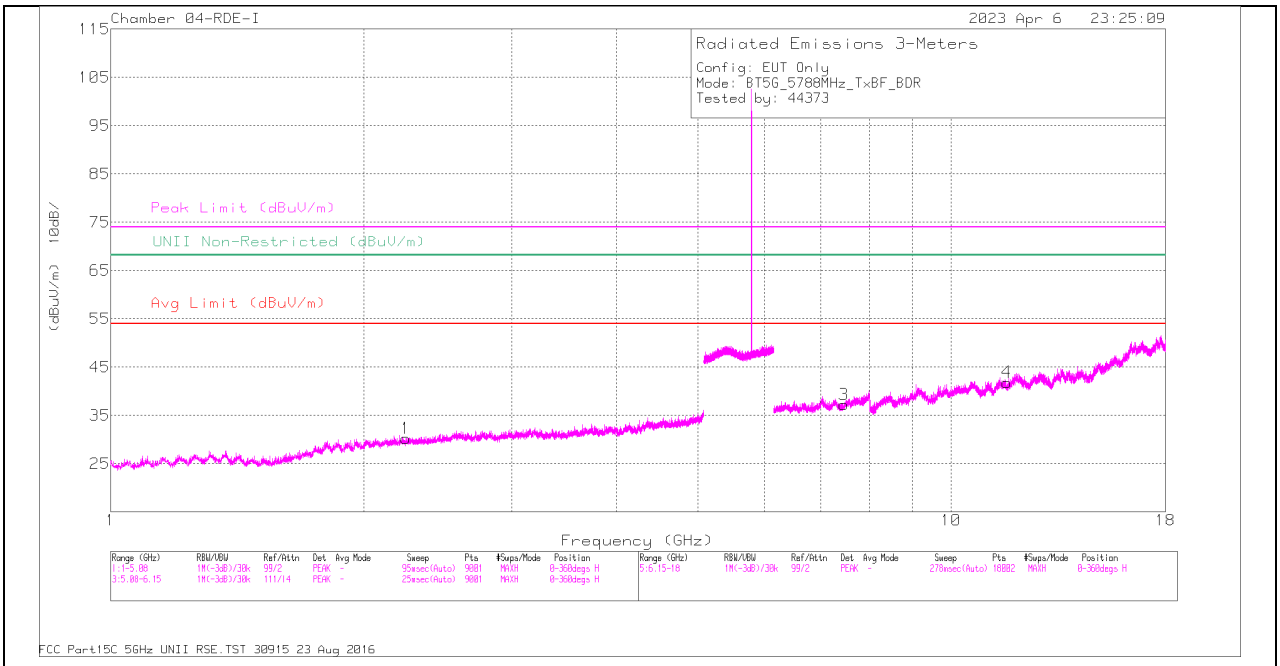
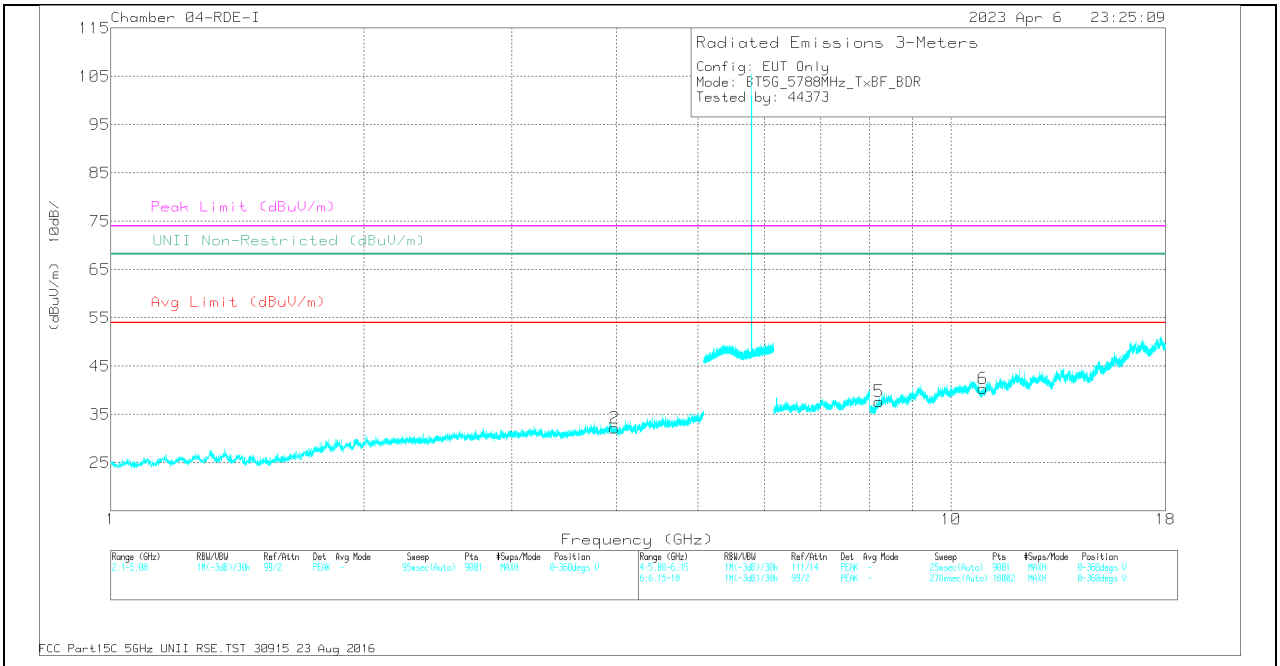
MID CHANNEL, 5788MHz



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Amp/Cbl/Fltr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.244933	40.15	PK-U	31.8	-31.4	40.55	-	-	74	-33.45	360	101	H
	* 2.246318	28.32	ADR	31.8	-31.4	28.72	54	-25.28	-	-	360	101	H
2	* 3.977645	38.17	PK-U	33.2	-29.1	42.27	-	-	74	-31.73	360	200	V
	* 3.977143	26.58	ADR	33.2	-29.1	30.68	54	-23.32	-	-	360	200	V
3	* 7.454544	33.3	PK-U	35.6	-21.3	47.6	-	-	74	-26.4	360	200	H
	* 7.452151	21.56	ADR	35.6	-21.3	35.86	54	-18.14	-	-	360	200	H
4	* 11.664916	31.94	PK-U	38.2	-18.4	51.74	-	-	74	-22.26	360	200	H
	* 11.665808	20.42	ADR	38.2	-18.4	40.22	54	-13.78	-	-	360	200	H
5	* 8.205804	32.14	PK-U	35.9	-20	48.04	-	-	74	-25.96	360	200	V
	* 8.205249	20.64	ADR	35.9	-20	36.54	54	-17.46	-	-	360	200	V
6	* 10.925431	30.47	PK-U	37.6	-17.9	50.17	-	-	74	-23.83	360	101	V
	* 10.925437	19.21	ADR	37.6	-17.9	38.91	54	-15.09	-	-	360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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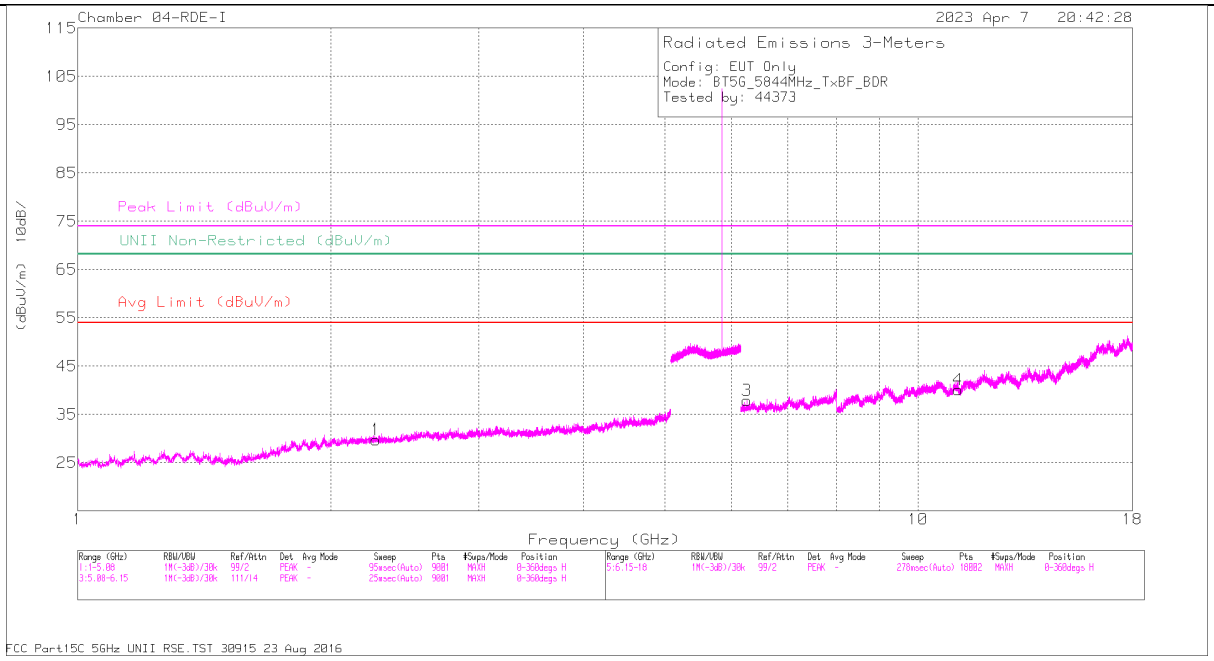
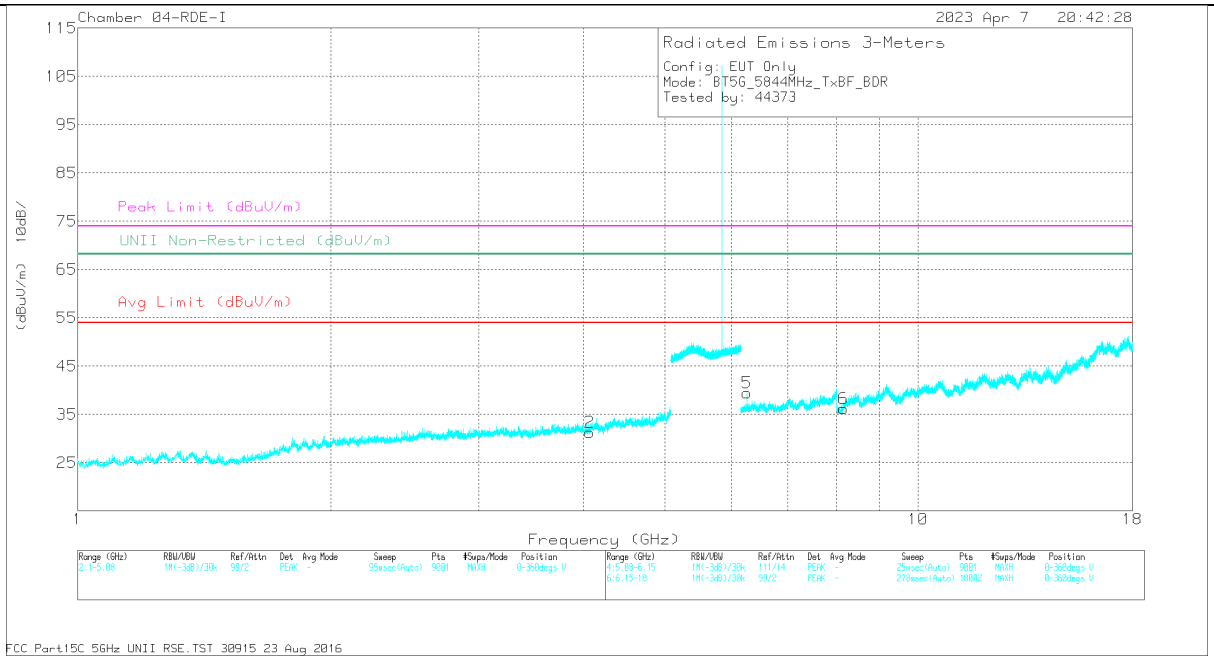
HIGH CHANNEL 5844MHz



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Amp /Cbl/ Fltr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Pol.
1	* 2.264559	40.13	PK-U	31.8	-31.5	40.43	-	-	74	-33.57	-	-	360	100	H
	* 2.264607	28.38	ADR	31.8	-31.5	28.68	54	-25.32	-	-	-	-	360	100	H
2	* 4.066188	37.97	PK-U	33.4	-28.9	42.47	-	-	74	-31.53	-	-	360	200	V
	* 4.066539	26.15	ADR	33.4	-28.9	30.65	54	-23.35	-	-	-	-	360	200	V
3	6.261218	33.52	PK-U	35.7	-22.8	46.42	-	-	-	-	68.2	-21.78	9	108	H
	6.261566	22.7	ADR	35.7	-22.8	35.6	-	-	-	-	-	-	9	108	H
4	* 11.16504	31.51	PK-U	37.7	-18.3	50.91	-	-	74	-23.09	-	-	9	199	H
	* 11.164235	19.9	ADR	37.7	-18.3	39.3	54	-14.7	-	-	-	-	9	199	H
5	6.261244	35.68	PK-U	35.7	-22.8	48.58	-	-	-	-	68.2	-19.62	103	288	V
	6.261536	26.32	ADR	35.7	-22.8	39.22	-	-	-	-	-	-	103	288	V
6	* 8.158352	30.99	PK-U	35.8	-19.9	46.89	-	-	74	-27.11	-	-	103	101	V
	* 8.161862	19.12	ADR	35.8	-19.9	35.02	54	-18.98	-	-	-	-	103	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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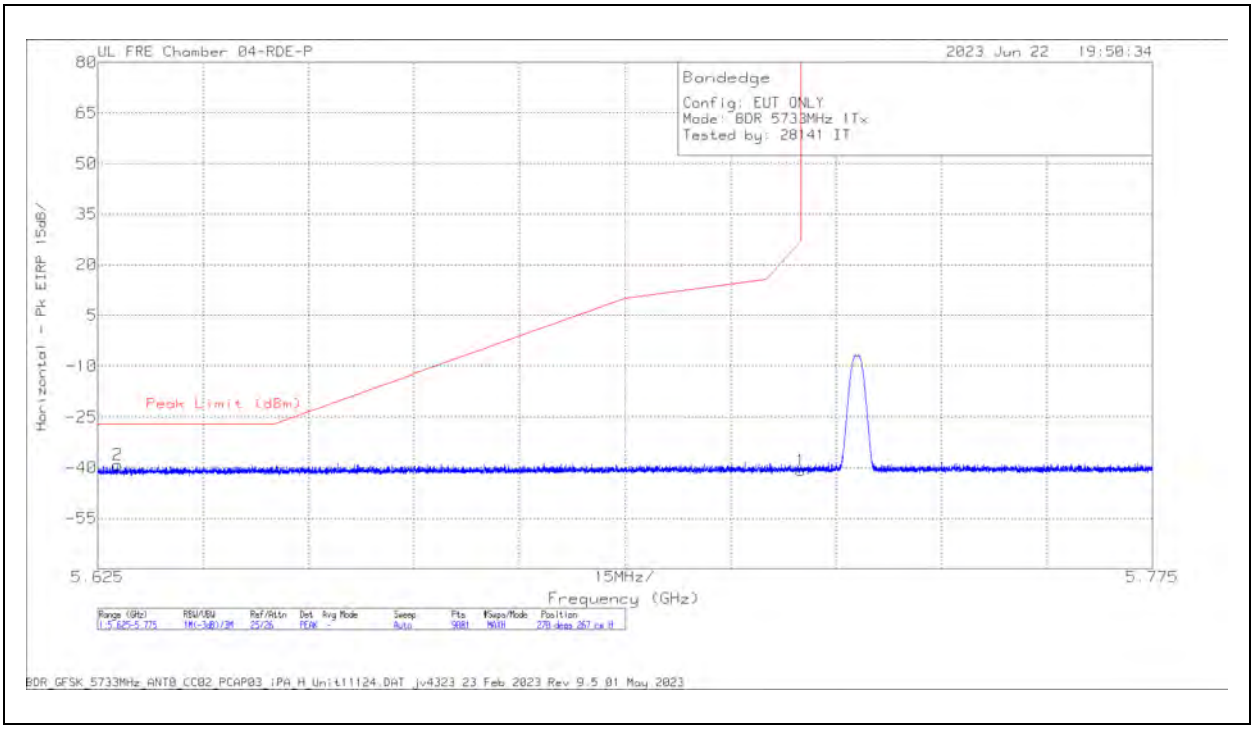
10.1.15 BDR, LOW POWER UNII-3 BANDEDGE

ANT 6

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

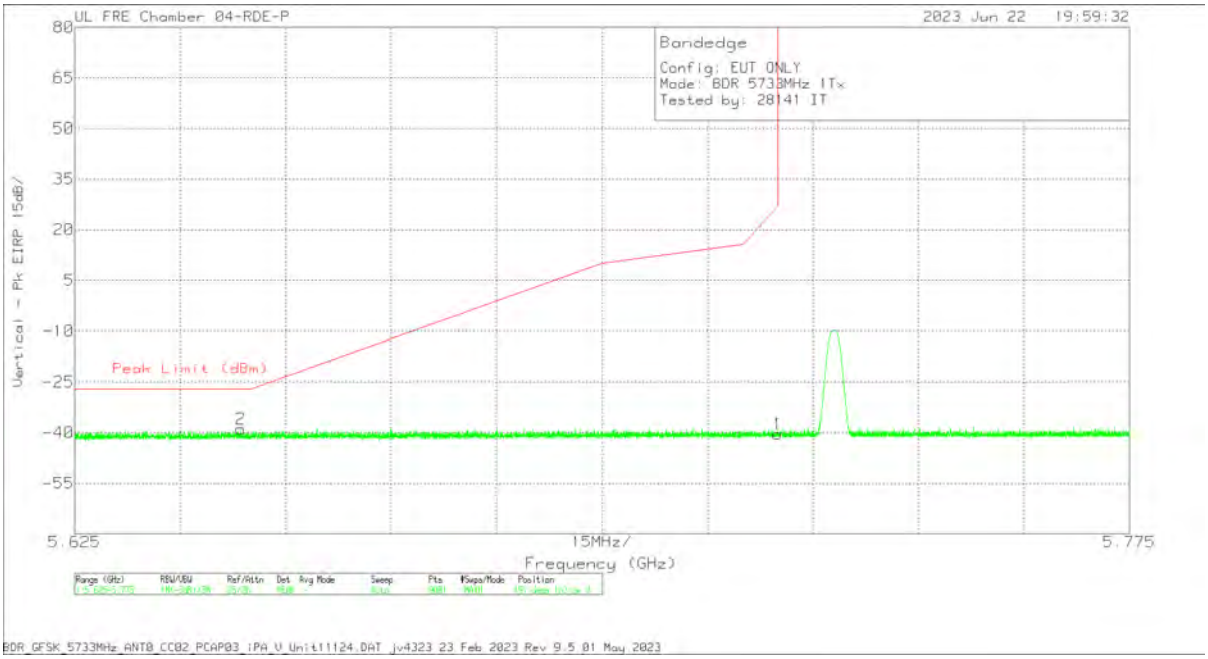


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	222740 ACF(dB) - 3mH	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.6278	-47.97	Pk	34.4	11.8	-37.41	-39.18	-27	-12.18	270	267	H
1	5.725	-50.03	Pk	34.5	11.8	-37.07	-40.8	27	-67.8	270	267	H

Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	222740 ACF(dB) - 3mH	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.648584	-48.06	Pk	34.5	11.8	-37.18	-38.94	-27	-11.94	191	163	V
1	5.725	-49.6	Pk	34.5	11.8	-37.07	-40.37	27	-67.37	191	163	V

Pk - Peak detector

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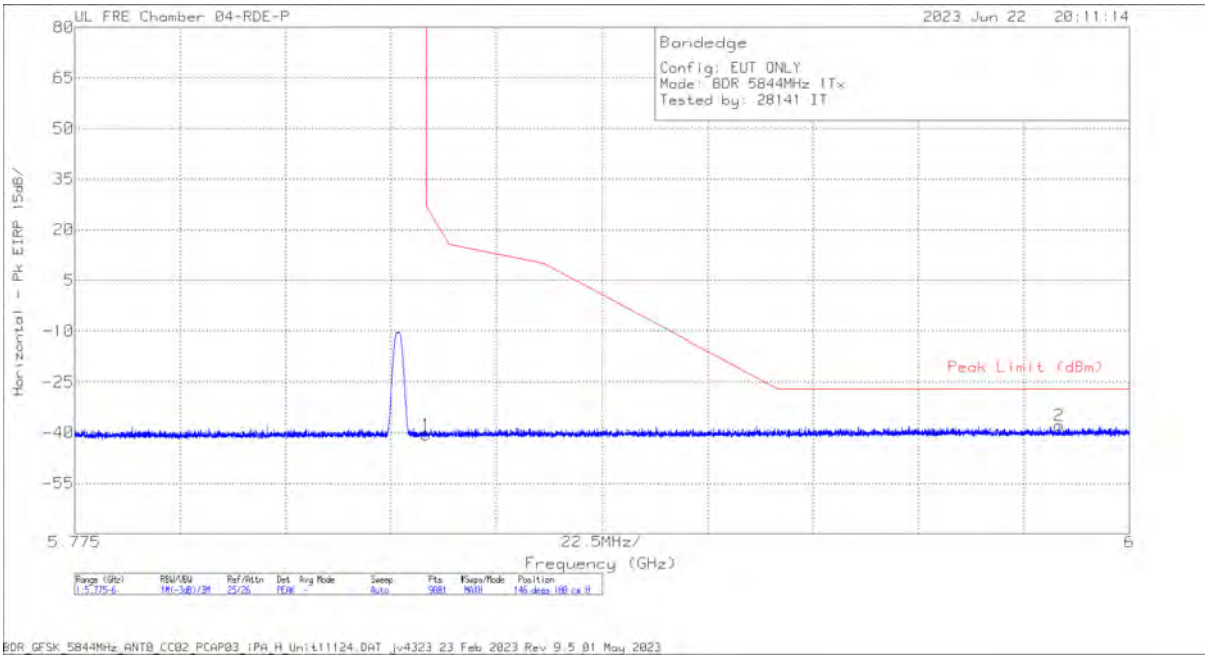
BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	222740 ACF(dB) - 3mH	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-50.43	Pk	34.7	11.8	-36.6	-40.53	27	-67.53	146	180	H
2	5.98505	-48.45	Pk	35	11.8	-36.18	-37.83	-27	-10.83	146	180	H

Pk - Peak detector

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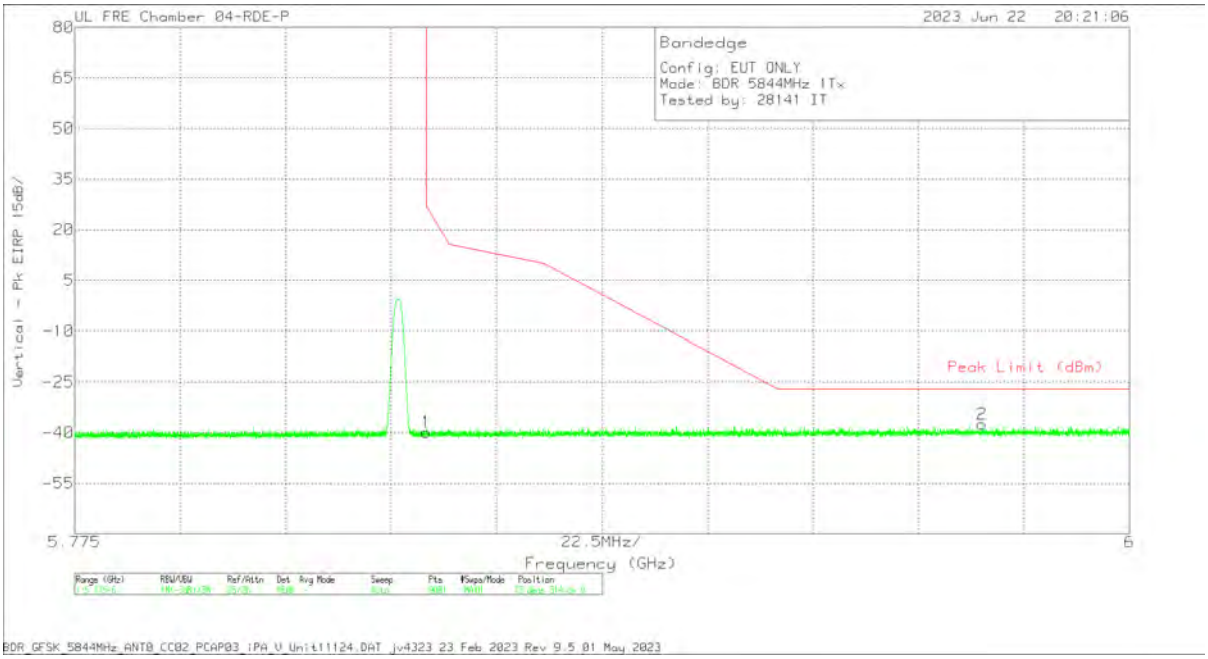
VERTICAL RESULT



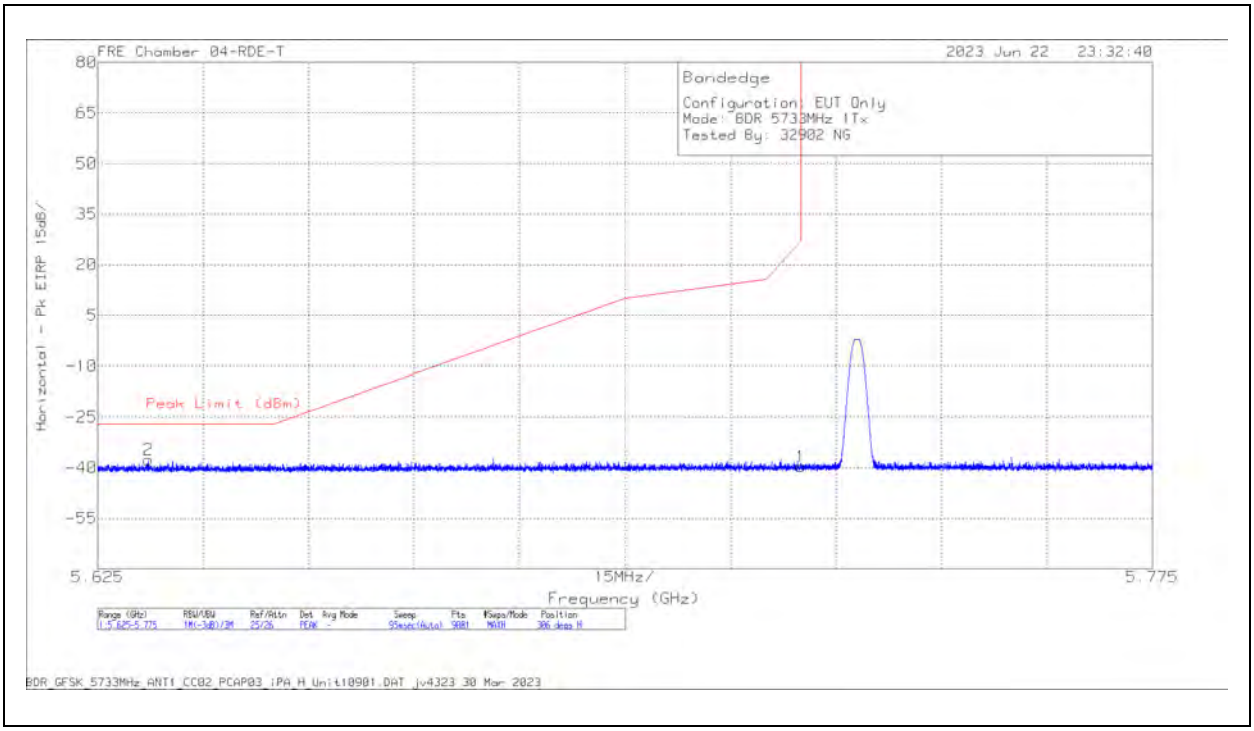
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	222740 ACF(dB) - 3mH	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-49.67	Pk	34.7	11.8	-36.6	-39.77	27	-66.77	73	314	V
2	5.96855	-48.29	Pk	35	11.8	-35.99	-37.48	-27	-10.48	73	314	V

Pk - Peak detector

ANT 5

BANDEDGE (LOW CHANNEL)

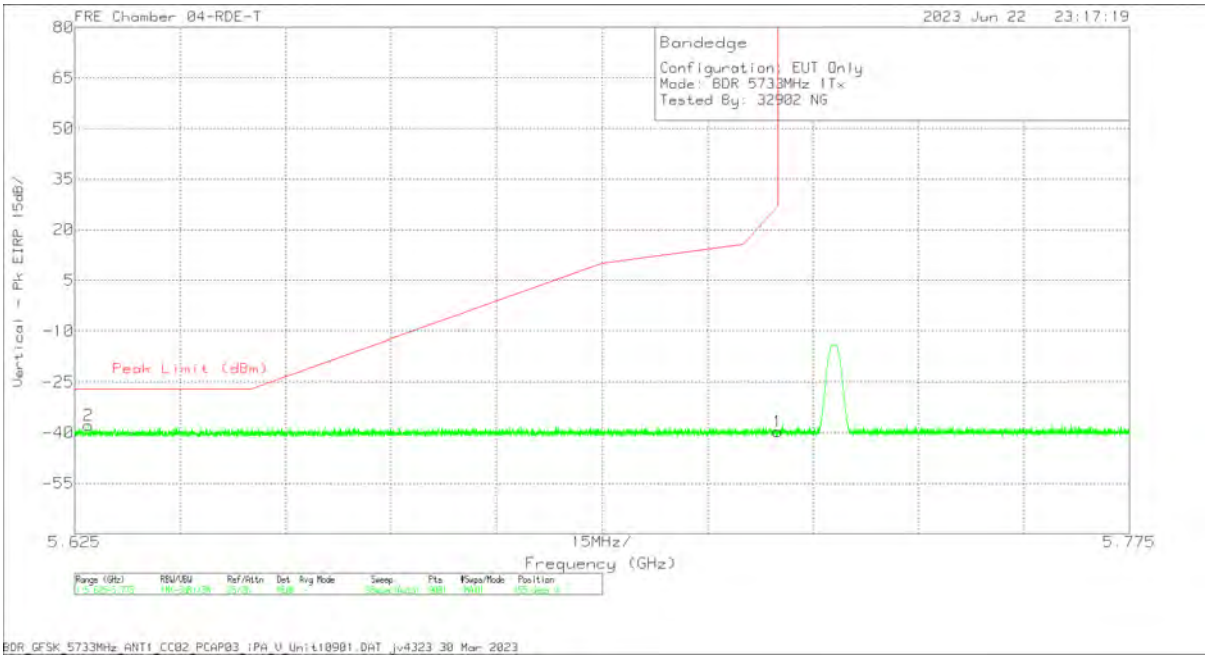
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dB) 3mH	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.632167	-49.47	Pk	34.5	11.8	-34.53	-37.7	-27	-10.7	306	136	H
1	5.725	-51.67	Pk	34.6	11.8	-34.48	-39.75	27	-66.75	306	136	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

VERTICAL RESULT

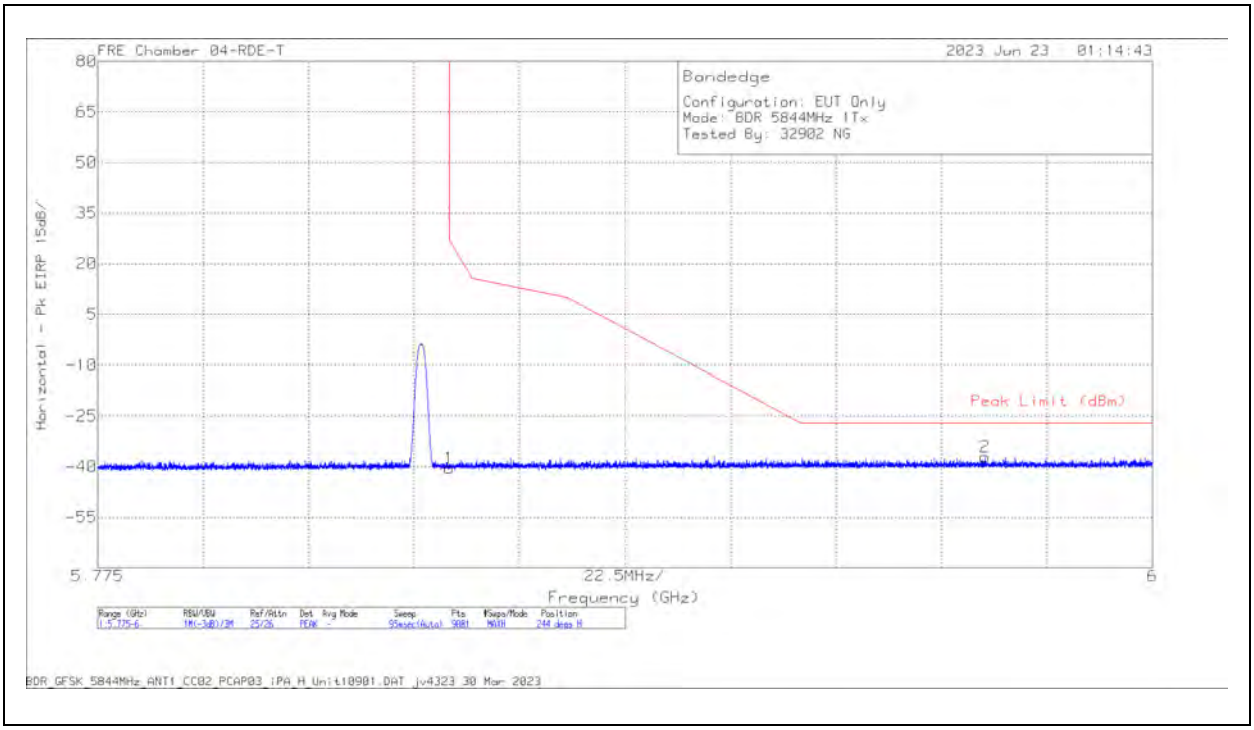


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dB) 3mH	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.626967	-49.56	Pk	34.5	11.8	-34.53	-37.79	-27	-10.79	155	233	V
1	5.725	-51.6	Pk	34.6	11.8	-34.48	-39.68	27	-66.68	155	233	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

BANDEDGE (LOW CHANNEL)

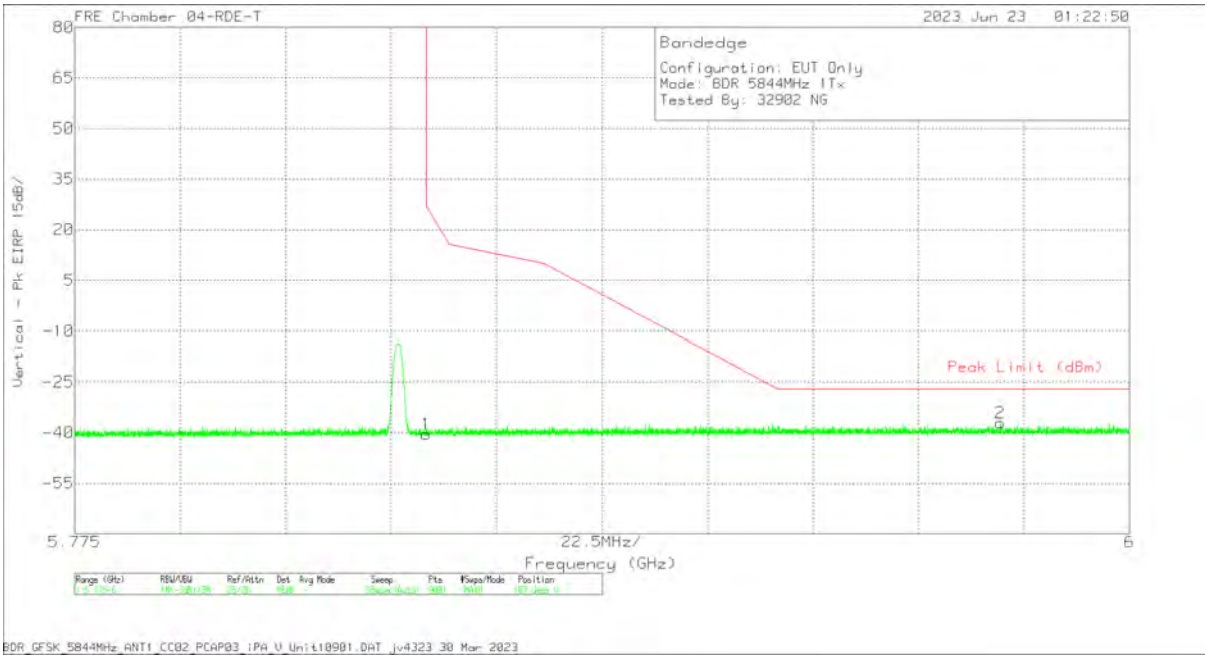
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dB) 3mH	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-52.72	Pk	34.9	11.8	-34.34	-40.36	27	-67.36	244	128	H
2	5.964325	-49.76	Pk	35.2	11.8	-34.29	-37.05	-27	-10.05	244	128	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dB) 3mH	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-52.82	Pk	34.9	11.8	-34.34	-40.46	27	-67.46	107	141	V
2	5.9725	-49.8	Pk	35.2	11.8	-34.25	-37.05	-27	-10.05	107	141	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

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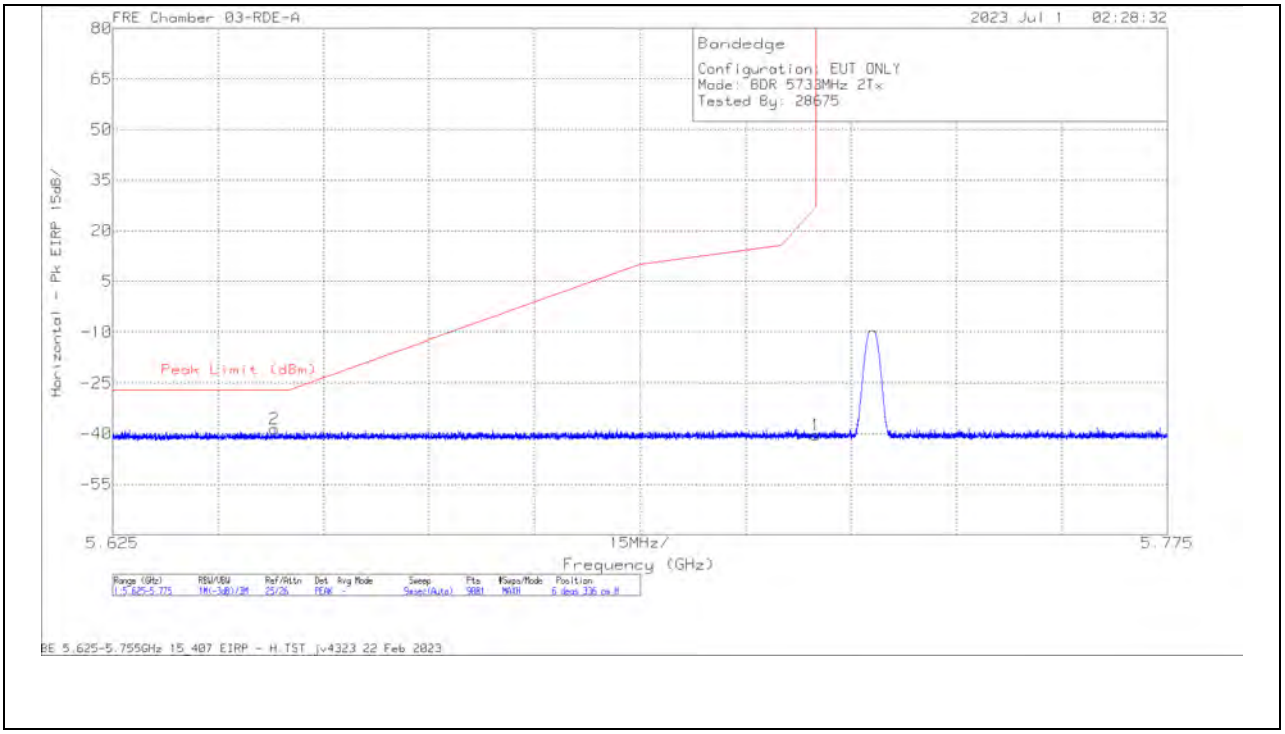
2TX Antenna 6 + Antenna 5 TXBF MODE

BANDEDGE (LOW CHANNEL)

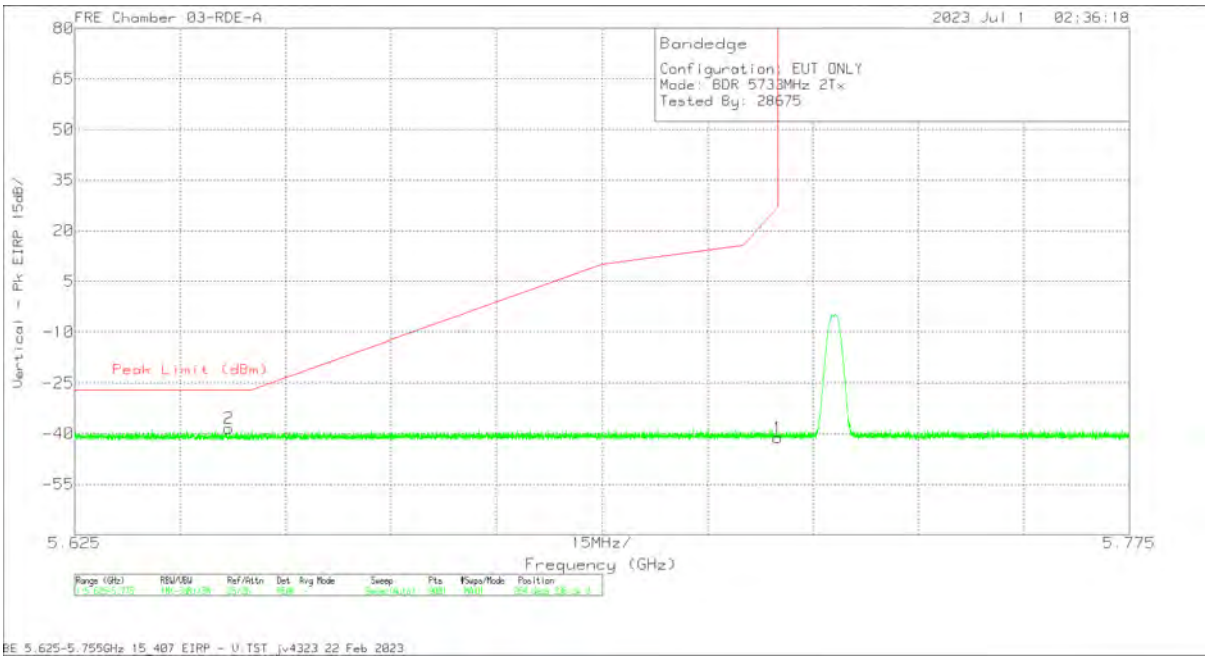
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.647984	-47.69	Pk	35.2	11.8	-37.94	-38.63	-27	-11.63	6	336	H
1	5.725	-49.69	Pk	35.2	11.8	-37.78	-40.47	27	-67.47	6	336	H

Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.646934	-47.52	Pk	35.2	11.8	-37.93	-38.45	-27	-11.45	264	336	V
1	5.725	-50.29	Pk	35.2	11.8	-37.78	-41.07	27	-68.07	264	336	V

Pk - Peak detector

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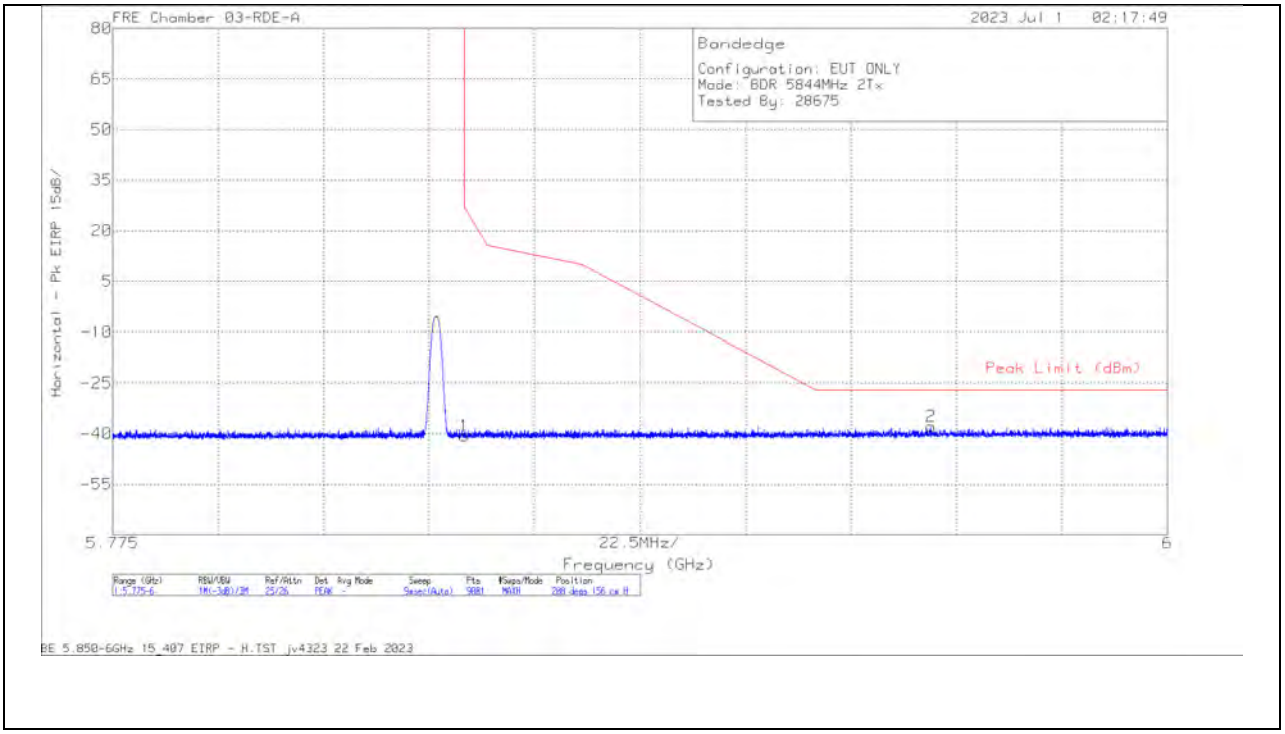
BANDEDGE (HIGH CHANNEL)

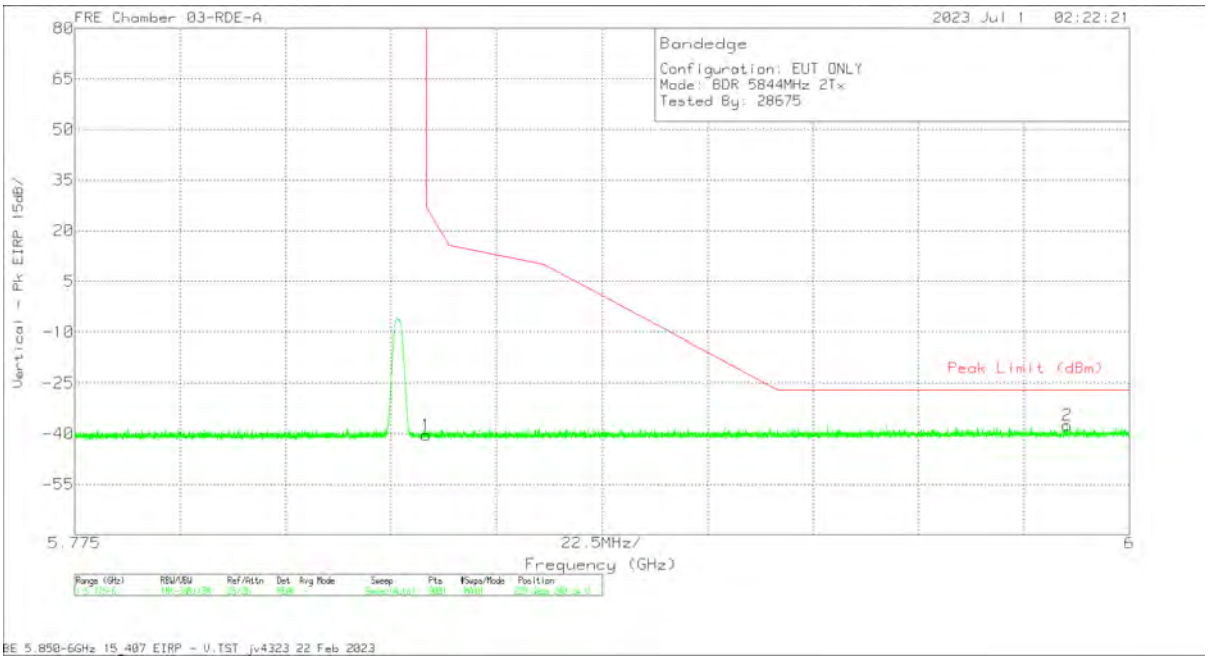
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-50.17	Pk	35.2	11.8	-37.49	-40.66	27	-67.66	288	156	H
2	5.94955	-47.67	Pk	35.3	11.8	-37.27	-37.84	-27	-10.84	288	156	H

Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-49.89	Pk	35.2	11.8	-37.49	-40.38	27	-67.38	229	240	V
2	5.9867	-47.34	Pk	35.4	11.8	-37.25	-37.39	-27	-10.39	229	240	V

Pk - Peak detector

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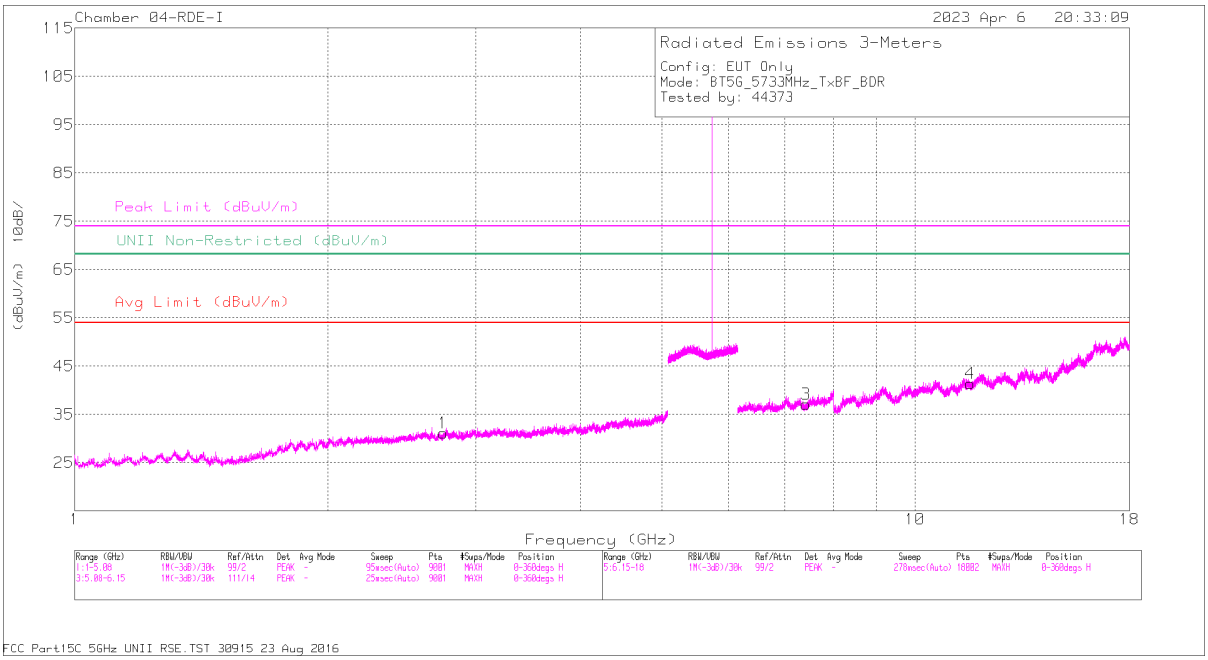
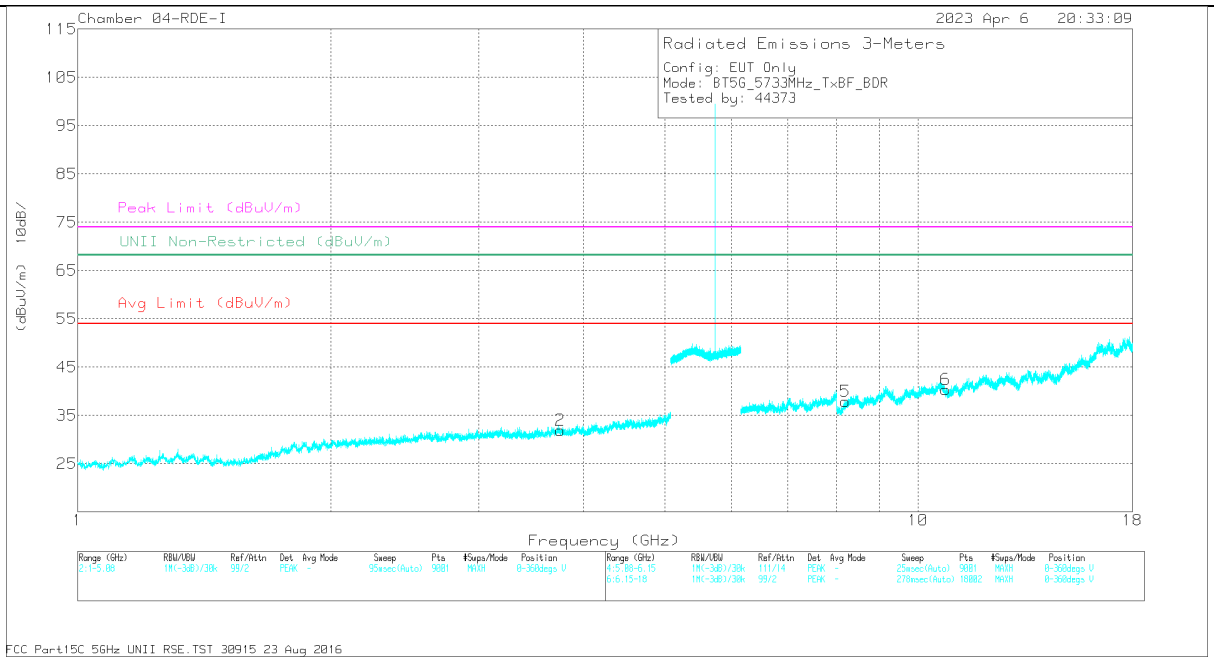
10.1.16 BDR, LOW POWER, UNII-3, HARMONIC AND SPURIOUS TX ABOVE 1 GHz IN THE 5.8GHz BAND

LOW CHANNEL 5733MHz



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Amp/Cbl /Fltr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.745085	39.15	PK-U	32.4	-30.6	40.95	-	-	74	-33.05	0	101	H
	* 2.746276	27.36	ADR	32.4	-30.6	29.16	54	-24.84	-	-	0	101	H
2	* 3.753888	38.41	PK-U	33.2	-29.1	42.51	-	-	74	-31.49	0	200	V
	* 3.753587	26.62	ADR	33.2	-29.1	30.72	54	-23.28	-	-	0	200	V
3	* 7.413146	33.17	PK-U	35.6	-21.9	46.87	-	-	74	-27.13	0	200	H
	* 7.41198	21.66	ADR	35.6	-21.9	35.36	54	-18.64	-	-	0	200	H
4	* 11.644286	31.67	PK-U	38.2	-18.8	51.07	-	-	74	-22.93	0	101	H
	* 11.641504	20.33	ADR	38.2	-18.8	39.73	54	-14.27	-	-	0	101	H
5	* 8.204921	32.01	PK-U	35.9	-20	47.91	-	-	74	-26.09	0	101	V
	* 8.202114	20.24	ADR	35.9	-20.1	36.04	54	-17.96	-	-	0	101	V
6	* 10.787241	30.89	PK-U	37.6	-18.6	49.89	-	-	74	-24.11	0	101	V
	* 10.786374	19.75	ADR	37.6	-18.6	38.75	54	-15.25	-	-	0	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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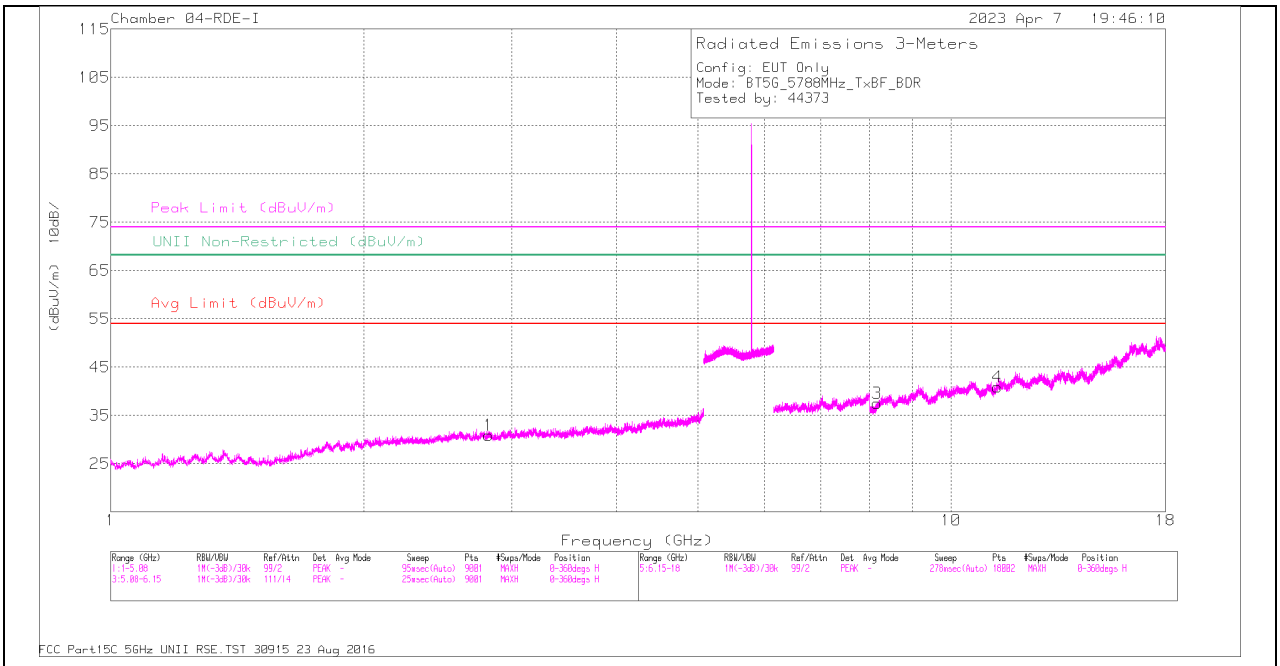
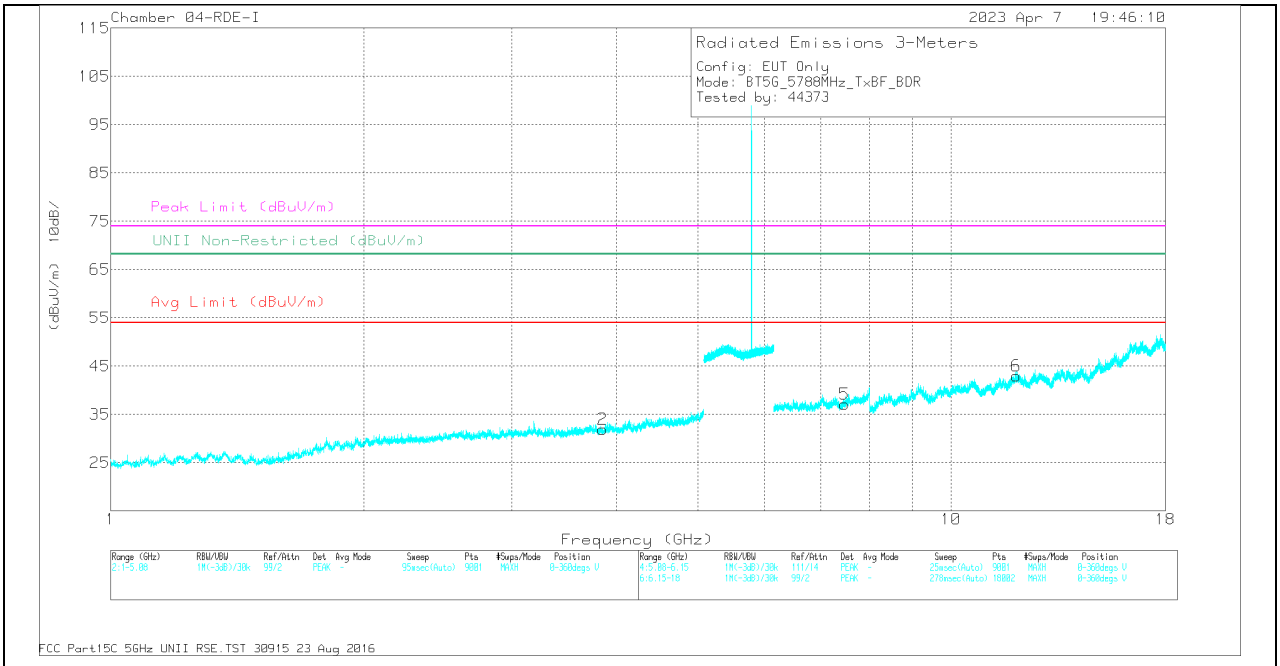
MID CHANNEL 5788MHz



HORIZONTAL



VERTICAL

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RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Amp/Cbl /Fltr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.816586	39.75	PK-U	32.5	-30.3	41.95	-	-	74	-32.05	360	200	H
	* 2.816227	27.84	ADR	32.5	-30.3	30.04	54	-23.96	-	-	360	200	H
2	* 3.848149	38.42	PK-U	33.2	-29.6	42.02	-	-	74	-31.98	360	200	V
	* 3.848647	26.87	ADR	33.2	-29.6	30.47	54	-23.53	-	-	360	200	V
3	* 8.170133	31.44	PK-U	35.8	-20.2	47.04	-	-	74	-26.96	360	101	H
	* 8.169494	19.99	ADR	35.8	-20.1	35.69	54	-18.31	-	-	360	101	H
4	* 11.35824	32.11	PK-U	37.8	-18.7	51.21	-	-	74	-22.79	360	200	H
	* 11.360858	20.7	ADR	37.9	-18.5	40.1	54	-13.9	-	-	360	200	H
5	* 7.468686	33.27	PK-U	35.6	-21.1	47.77	-	-	74	-26.23	360	200	V
	* 7.470938	21.48	ADR	35.6	-21	36.08	54	-17.92	-	-	360	200	V
6	* 11.960356	32.52	PK-U	38.6	-18.1	53.02	-	-	74	-20.98	360	101	V
	* 11.959353	20.8	ADR	38.6	-18.1	41.3	54	-12.7	-	-	360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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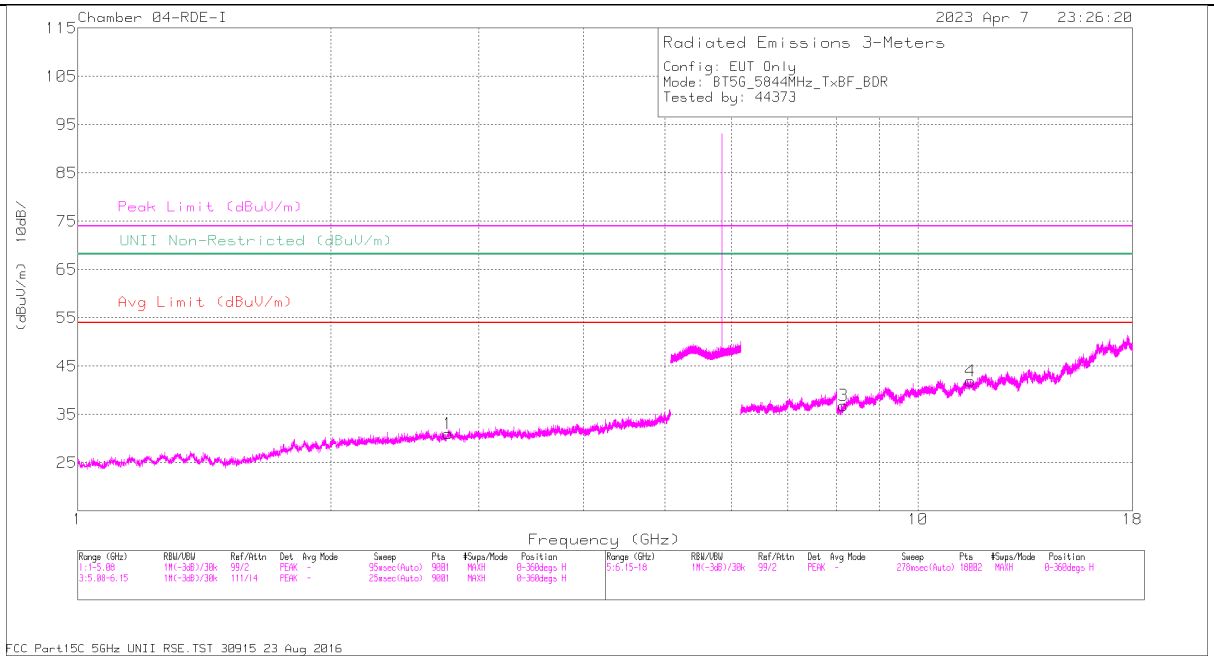
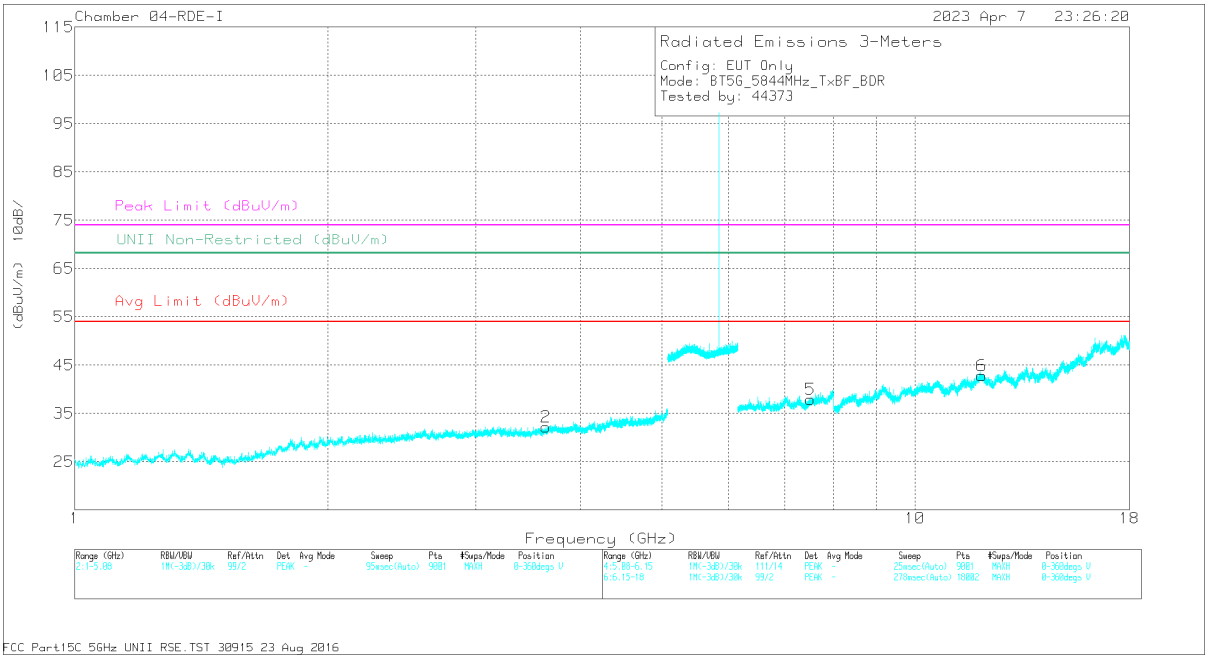
HIGH CHANNEL 5844MHz



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Amp/Cbl/Fltr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.757361	39.56	PK-U	32.4	-30.4	41.56	-	-	74	-32.44	360	200	H
	* 2.757405	27.78	ADR	32.4	-30.4	29.78	54	-24.22	-	-	360	200	H
25	* 3.638184	38.76	PK-U	33.1	-30	41.86	-	-	74	-32.14	360	101	V
	* 3.636988	27.14	ADR	33.1	-29.9	30.34	54	-23.66	-	-	360	101	V
3	* 8.146614	31.03	PK-U	35.8	-20.1	46.73	-	-	74	-27.27	360	101	H
	* 8.146823	19.87	ADR	35.8	-20.1	35.57	54	-18.43	-	-	360	101	H
4	* 11.545059	32.72	PK-U	38.1	-18.2	52.62	-	-	74	-21.38	360	101	H
	* 11.544094	20.85	ADR	38.1	-18.3	40.65	54	-13.35	-	-	360	101	H
	* 7.503471	33.4	PK-U	35.6	-20.6	48.4	-	-	74	-25.6	360	101	V
	* 7.507144	21.3	ADR	35.6	-20.6	36.3	54	-17.7	-	-	360	101	V
6	* 12.012111	32.31	PK-U	38.6	-18.2	52.71	-	-	74	-21.29	360	101	V
	* 12.011658	20.81	ADR	38.6	-18.2	41.21	54	-12.79	-	-	360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

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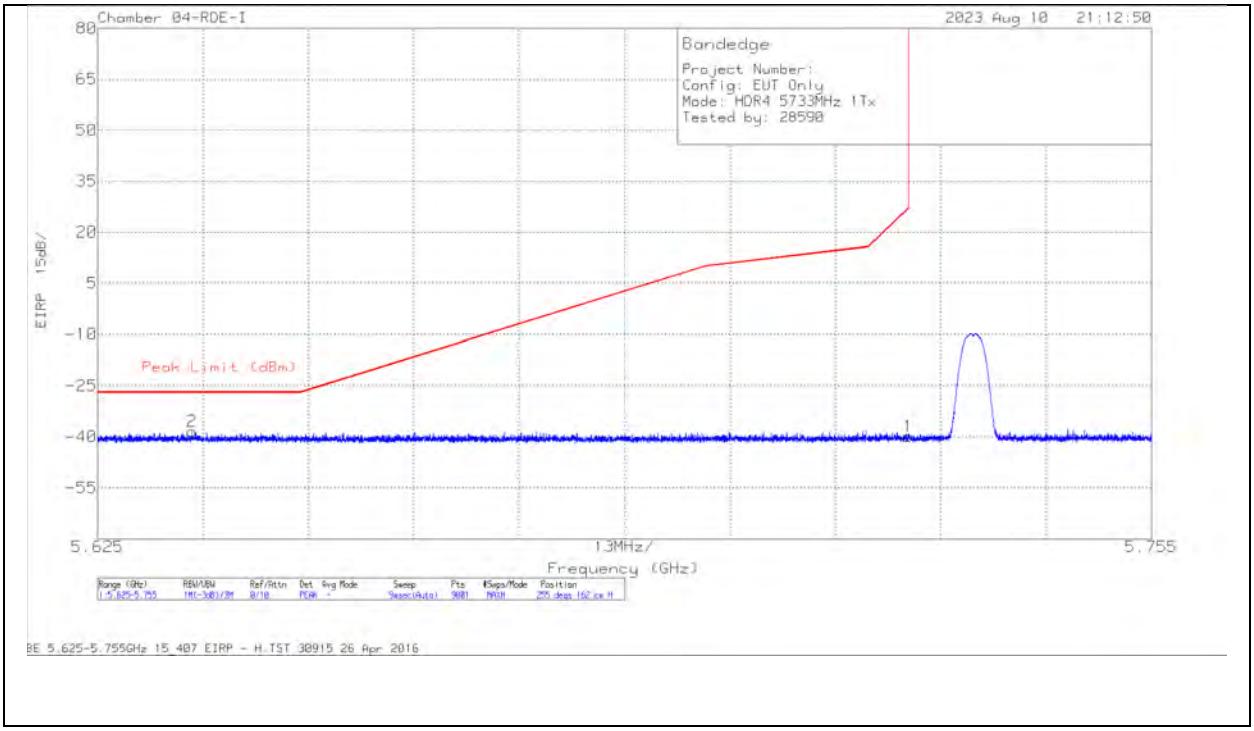
10.1.17 HDR4, HIGH POWER UNII-3 BANDEDGE

ANT 6

BANDEDGE (LOW CHANNEL)

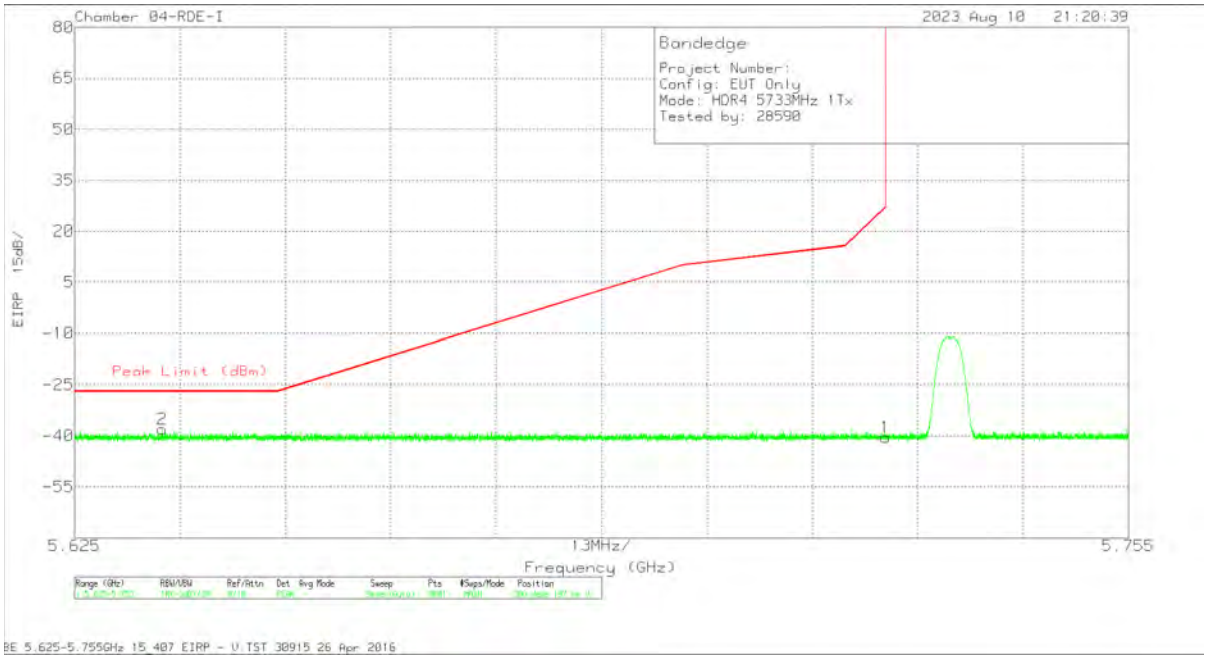
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB) - 3mH	Cbl/Amp (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-69.9	Pk	34.9	-16.7	11.8	-39.9	27	-66.9	255	162	H
2	5.636656	-68.4	Pk	34.9	-16.7	11.8	-38.4	-27	-11.4	255	162	H

Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB) - 3mH	Cbl/Amp (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-70.42	Pk	34.9	-16.7	11.8	-40.42	27	-67.42	306	197	V
2	5.635775	-67.91	Pk	34.9	-16.8	11.8	-38.01	-27	-11.01	306	197	V

Pk - Peak detector

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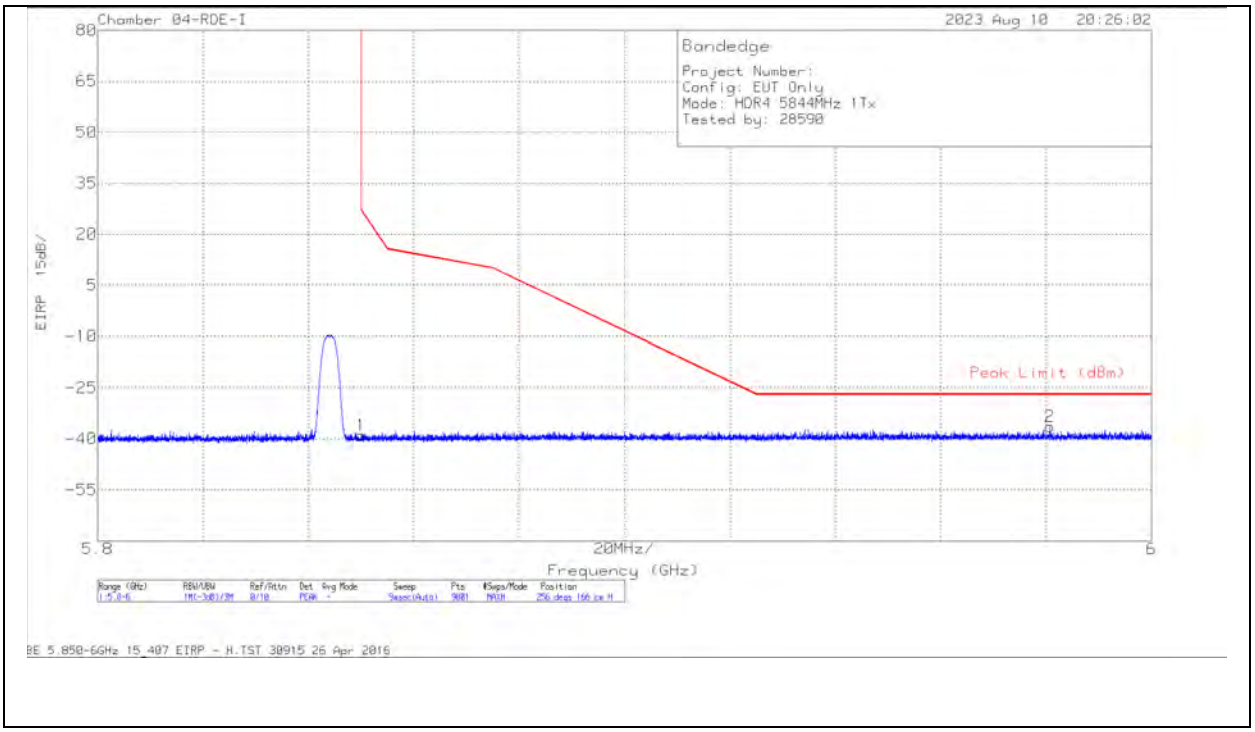
BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB) - 3mH	Cbl/Amp (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.85	Pk	35	-15.9	11.8	-38.95	27	-65.95	256	166	H
2	5.980687	-67.79	Pk	35.3	-15.7	11.8	-36.39	-27	-9.39	256	166	H

Pk - Peak detector