

TEST REPORT

Report Number: 15496249-E9V2

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

Model : A3257 (Parent)
A3525, A3526, A3527 (Variants)

Brand : APPLE

FCC ID : BCG-E8950A (Parent)
BCG-E8960A, BCG-E8961A, BCG-E8962A (Variants)

IC : 579C-E8950A (Parent)
579C-E8960A, 579C-E8961A, 579C-E8962A (Variants)

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E
ISED RSS-248 Issue 3
ISED RSS-GEN Issue 5 + A1 + A2

Date Of Issue:
2025-08-08

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2025-08-01	Initial Review	---
V2	2025-08-08	Addressed TCB Comments on Sections 2, 6, 9, 11, Appendix A	Benjamin Dobbins

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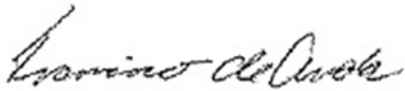
1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.
Model	A3257 (Parent) A3525, A3526, A3527 (Variants)
Brand	APPLE
FCC ID	BCG-E8950A (Parent) BCG-E8960A, BCG-E8961A, BCG-E8962A (Variants)
IC	579C-E8950A (Parent) 579C-E8960A, 579C-E8961A, 579C-E8962A (Variants)
EUT Description	SMARTPHONE
Serial Number	HVHHCY0001P0000YEE, HVHHHD0004U0000YE8 (Conducted) DHVYMJ7FMF (Radiated)
Sample Receipt Date	2025-02-28
Date Tested	2025-05-05 to 2025-07-30
Applicable Standards	CFR 47 Part 15 Subpart E ISED RSS-248 Issue 3 ISED RSS-GEN Issue 5 + A1 + A2
Test Results	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 can demonstrate 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 considered 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 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

Approved & Released By:	Prepared & Reviewed By:
	
Francisco de Anda Staff Engineer UL Verification Services, Inc.	Tony Li, Benjamin Dobbins Lead Test Engineer, Senior Test Engineer UL Verification Services, Inc.

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 correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

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)

Requirement Description	Requirement Clause Number (FCC)	Result	Comment
Duty Cycle	See Comment	Reporting purposes only	ANSI C63.10 Section 12.2
99% BW	§15.407 (a) (11) KDB 987594 D03 v02 Q18	Compliant	ANSI C63.10 Section 6.9.3
26dB BW			
Output Power EIRP	§15.407 (a) (7), (8), (9)	Compliant	Dual Client
PSD EIRP	§15.407 (a) (7), (8), (9)	Compliant	Dual Client
Emissions outside 5.925-7.125 GHz band	§15.407 (b) (6) (7)	Compliant	None
Emissions within 5.925-7.125 GHz Band (Emissions Mask)	§15.407 (b) (7)	Compliant	None
Unwanted emissions in restricted bands	§15.205	Compliant	None
Radiated Spurious Emissions	§15.209	Compliant	None
AC Mains Conducted Emissions	§15.207	Compliant	None
Transmit Power Control Mechanism	§15.407 (d) (10)	Compliant	Very Low Power Device

ISED:

Requirement Description	Requirement Clause Number (ISED)	Result	Comment
Duty Cycle	See Comment	Reporting purposes only	ANSI C63.10 Section 12.2
99% BW	RSS-248 4.4 KDB 987594 D03 v02 Q18	Compliant	ANSI C63.10 Section 6.9.3
26dB BW		Reporting purposes only	
Output Power EIRP	RSS-248 4.5.3, 4.5.5, 4.5.6	Compliant	Dual Client
PSD EIRP	RSS-248 4.5.3, 4.5.5, 4.5.6	Compliant	Dual Client
Emissions outside 5.925-7.125 GHz band	RSS-248 4.6.2(a)	Compliant	None
Emissions within 5.925-7.125 GHz Band (Emissions Mask)	RSS-248 4.6.2(b)	Compliant	None
Unwanted emissions in restricted bands	RSS-GEN 8.10	Compliant	None
Radiated Spurious Emissions	RSS-GEN 8.9	Compliant	None
AC Mains Conducted Emissions	RSS-GEN 8.8	Compliant	None
Transmit Power Control Mechanism	RSS-248 4.5.6	Compliant	Very Low Power Device

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- *ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- FCC 47 CFR Part 2
- FCC 47CFR Part 15
- FCC KDB 414788 D01 Radiated Test Site
- FCC KDB 662911 D01 Multiple Transmitter Output
- FCC KDB 789033 D02 General UNII Test Procedures New Rules
- FCC KDB 987594 D01 General Requirements
- FCC KDB 987594 D02 EMC Measurement
- RSS-248 Issue 3
- RSS-GEN Issue 5 + A1 +A2

*Note: The use of ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 does not deviate from the testing procedures of ANSI C63.10-2020

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.)

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
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using Power Meter	0.450 dB (Ave) 1.300 dB (Peak)
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
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%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, 5G NR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible.

This report covers the UNII-5 NB, which operates in the frequency range of 6106-6420MHz, equipped with VLP client device.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum EIRP output power as follows:

UNII-5 Frequency Range (MHz)	Mode	Antenna	Configuration	Output Power EIRP (dBm)	Output Power EIRP (mW)
6106 -6420	BDR	Ant 6	High Power	-6.24	0.24
			Low Power	-6.21	0.24
		Ant 5	High Power	-6.79	0.21
			Low Power	-6.82	0.21
		BF, Ant 6 + Ant 5	High Power	-6.29	0.23
			Low Power	-6.33	0.23
6106 -6420	LE1M	Ant 6	High Power	-5.76	0.27
			Low Power	-5.71	0.27
		Ant 5	High Power	-6.30	0.23
			Low Power	-6.28	0.24
		BF, Ant 6 + Ant 5	High Power	-6.03	0.25
			Low Power	-6.08	0.25
6106 -6420	LE2M	Ant 6	High Power	-5.01	0.32
			Low Power	-4.97	0.32
		Ant 5	High Power	-5.52	0.28
			Low Power	-5.54	0.28
		BF, Ant 6 + Ant 5	High Power	-5.06	0.31
			Low Power	-5.09	0.31
6106 -6420	HDT4	Ant 6	High Power	-3.52	0.44
			Low Power	-3.53	0.44
		Ant 5	High Power	-4.03	0.40
			Low Power	-5.77	0.26
		BF, Ant 6 + Ant 5	High Power	-3.60	0.44
			Low Power	-3.58	0.44
6106 -6420	HDR4	Ant 6	High Power	-3.75	0.42
			Low Power	-3.76	0.42
		Ant 5	High Power	-4.55	0.35
			Low Power	-5.85	0.26
		BF, Ant 6 + Ant 5	High Power	-4.04	0.39
			Low Power	-4.12	0.39
6107 -6420	XHDRPM8	Ant 6	High Power	-0.96	0.80
			Low Power	-1.03	0.79
		Ant 5	High Power	-1.54	0.70
			Low Power	-5.79	0.26
		BF, Ant 6 + Ant 5	High Power	-1.08	0.78
			Low Power	-1.03	0.79
6109 -6417	HDRPL8	Ant 6	High Power	2.04	1.60
			Low Power	2.00	1.58
		Ant 5	High Power	1.46	1.40
			Low Power	-5.82	0.26
		BF, Ant 6 + Ant 5	High Power	1.93	1.56
			Low Power	1.95	1.57

6.3. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS

The antenna(s) gain and type, cable loss as provided by the manufacturers are as follows:

Antenna Type is IFA

Frequency Range (MHz)	Sub-band (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
6105 - 6425 UNII-5	Sub-band 2 (6115 - 6255)	2.80	-6.00	0.33	2.48
	Sub-band 3 (6275 - 6415)	2.20	-7.10	-0.33	1.75

Note: antenna C0 and antenna C1 indicated in power tune-up document pertain to Ant 6 and ANT 5 of this report respectively.

Cable: SMA

Cable Loss		
Frequency Range (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)
6105-6265	-3.30	-2.90
6265-6425	-3.30	-2.90

Cable loss used for RF antenna port tests was included in offset of the test equipment during testing.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware is 23A258.

6.5. WORST-CASE CONFIGURATION AND MODE

This report is to document the very low power client mode only.

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 2TX beamforming.

For the radiated bandedge testing, we investigated and found that there were no emissions at both lower and upper bandedges.

For the radiation spurious harmonics testing, we have been investigated both SISO and MIMO modes under low power and high power, and we only report in high power mode, as this represents the worst case.

For radiated harmonics spurious below 1GHz, 1-18GHz L/M/H channels, 18-26GHz, 26-40GHz and power line conducted emissions were performed with the EUT set at the 2TX BF at high power mode with power setting equal or higher than 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 tests, the worst-case configuration reported was with EUT only. There were no emissions found below 30MHz within 20dB of the limit. For AC line conducted emission, test was investigated with AC power adapter and with laptop.

After the investigation, the worst case of power and PSD modes selecting for test are as table shown below.

UNII-5				
Mode	Modulation	Frequency Range (MHz)	Worst Case Tone	
			Power	PSD
BT5G	BDR	6106-6420	X	X
	EDR2	NS		
	EDR3			
LE	LE Adv	6106-6420		
	LE1M		X	X
	LELR8			
	LELR2			
	LE2M	6106-6420	X	X
	HDT2	6106-6420		
	HDT3			
	HDT4		X	X
	HDT6			
	HDT8			
HDR	HDR4	6106-6420	X	X
	HDRPS2			
	XHDRPS2			
	HDR8	6107-6420		
	HDRPM4			
	HDRPM6			
	HDRPM8			
	XHDRPM4			
	XHDRPM6			
	XHDRPM8		X	X
	HDRPM12			
	HDRPM16			
	XHDRPM12			
	XHDRPM16			
	HDRPL8	6109-6417	X	X
	HDRPL12			
	HDRPL16			
	XHDRPL8			
	XHDRPL12			
	XHDRPL16			
	HDRPL24			
	HDRPL32			
	XHDRPL24			
	XHDRPL32			

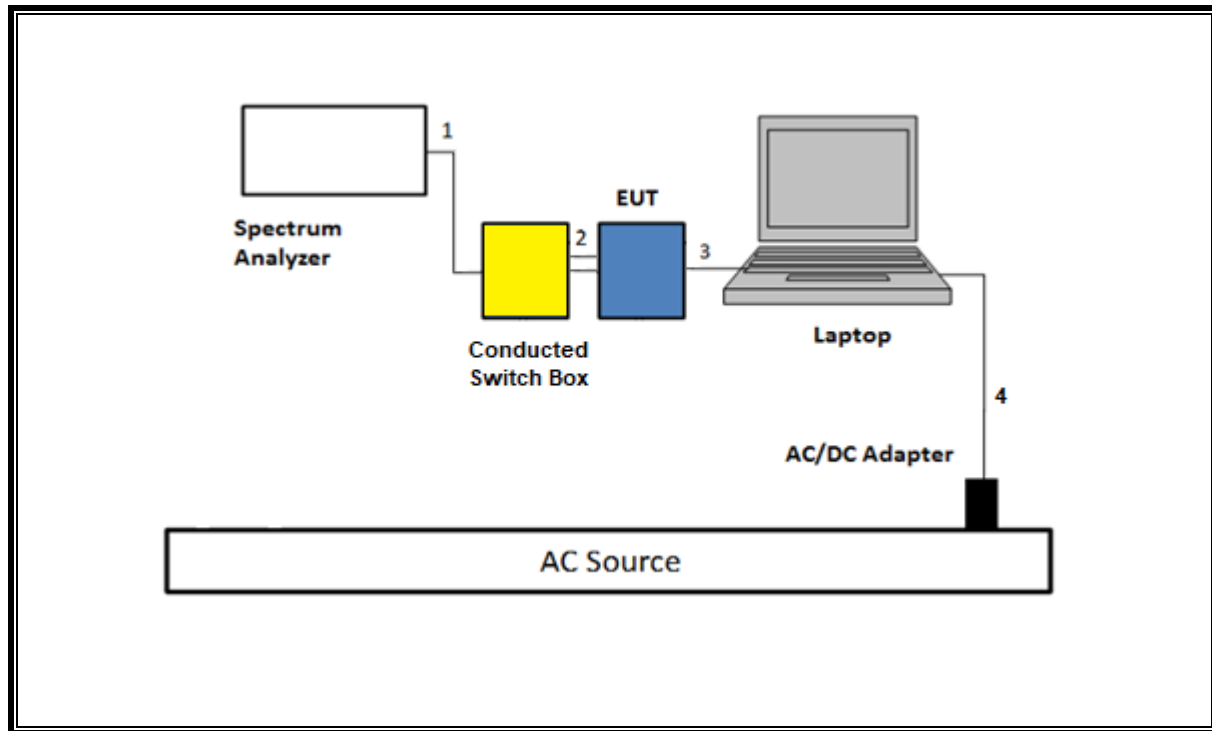
6.6. DESCRIPTION OF TEST SETUP

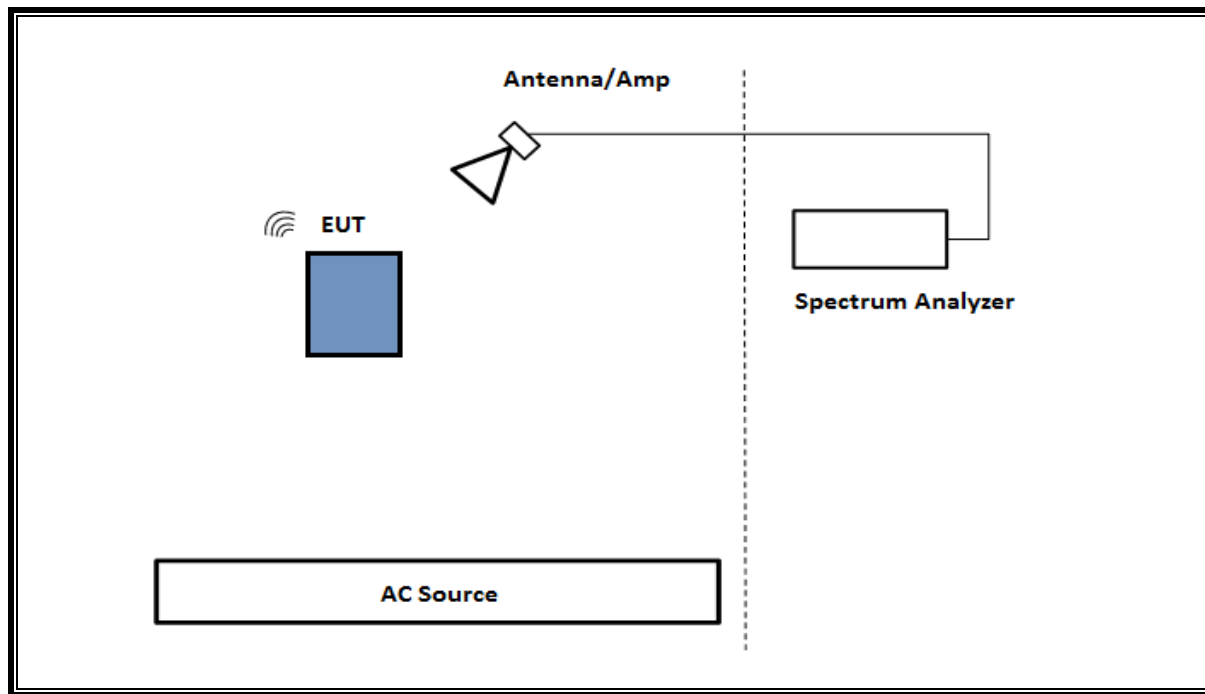
SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
Laptop		Apple	Macbook	G2YKJ9LWH5		N/A
Laptop AC/DC adapter		Apple	N/A	C4H238408AEPM0WAS		DoC
EUT AC/DC adapter		Apple	N/A	C4H238505ARPM0WAP		DoC
Conducted Switch Box		UL	N/A	245782		N/A
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	SMA	1	SMA	Shielded	0.2	To spectrum Analyzer
2	Antenna	2	SMA	Shielded	0.2	EUT to Switchbox
3	USB	1	USB-C	Shielded	1.0	N/A
4	DC	1	DC	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	DC	1	DC	Shielded	2	N/A
2	USB	1	USB-C	Shielded	1	N/A
I/O CABLES (TPC CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	2-Prong	Un-shielded	1	DC to AC Mains
2	DC	1	DC	Shielded	1.5	
3	USB-C	1	USB-C	Shielded	1.0	N/A
4	SMA	4	SMA	Shielded	0.75	To PXA, coupler, step attenuator and companion device

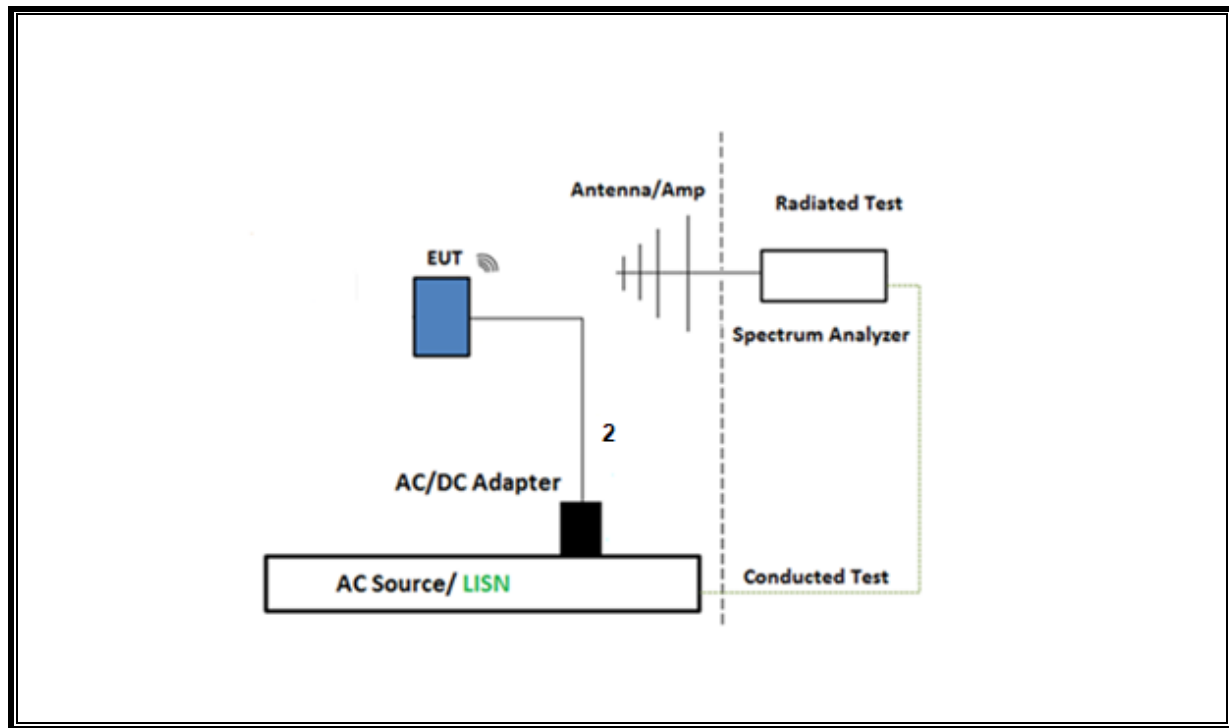
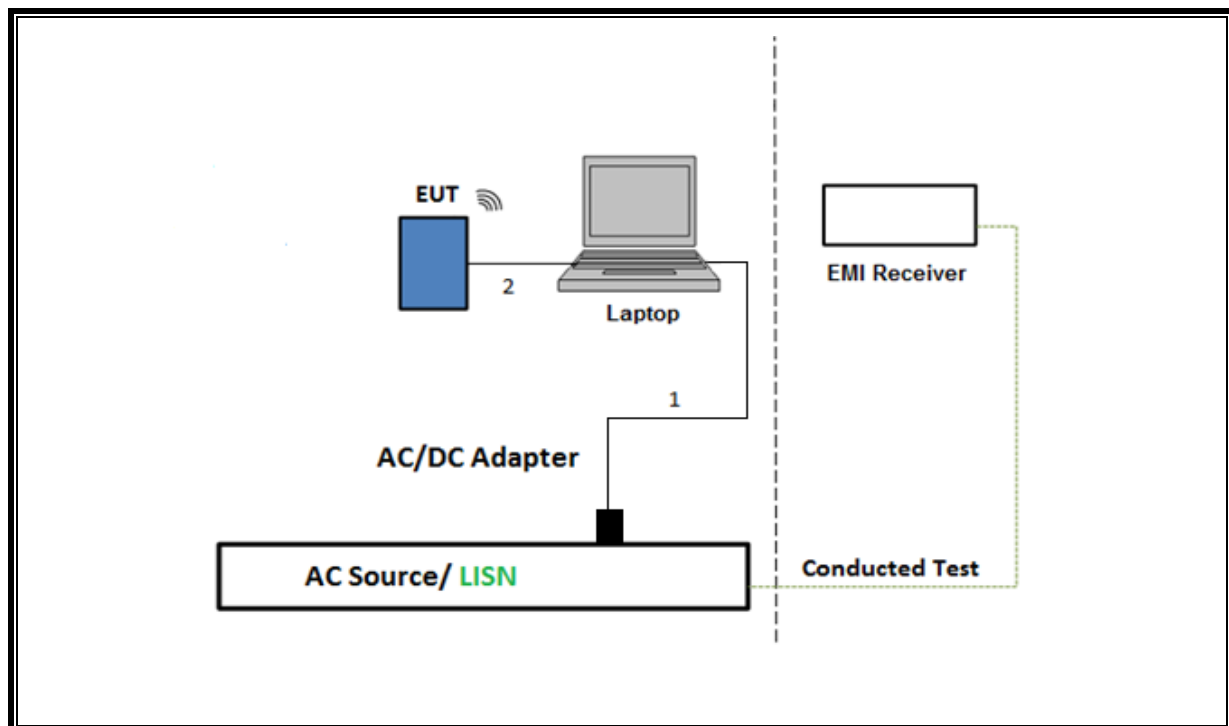
TEST SETUP

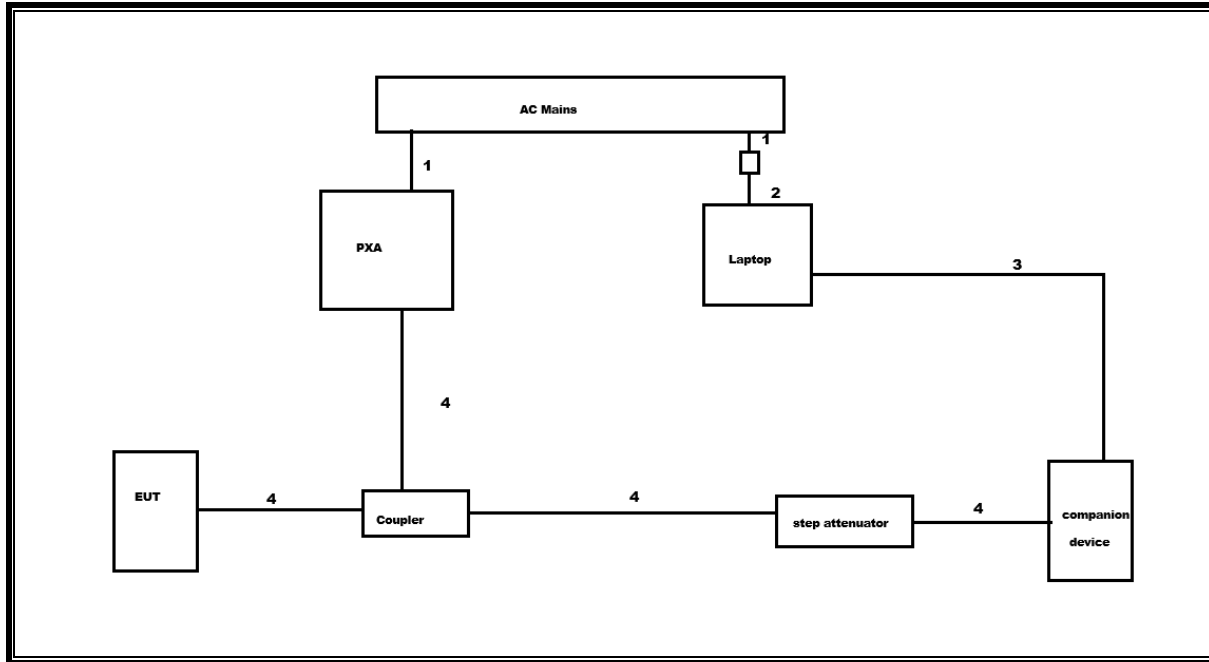
The EUT setup is shown as below. Test software exercised the radio card.

Note, For TPC test, companion device is same device type and model as the EUT and is used to establish a peer-to-peer link.

SETUP DIAGRAM FOR CONDUCTED TESTS

SETUP DIAGRAM FOR RADIATED TESTS Above 1 GHz

SETUP DIAGRAM FOR Below 1GHz and AC LINE CONDUCTED TEST**TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION**

SETUP DIAGRAM FOR TPC TEST

7. MEASUREMENT METHOD

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

26 dB Emission BW: KDB 789033 D02, Section II-C.

99% Occupied Bandwidth: KDB 789033 D02, Section II-D

Conducted Output Power: KDB 789033 D02, Section II E.3.b (Method PM-G).

Power Spectral Density (PSD): KDB 789033 D02, Section II- F

Spurious emissions within 5.925-7.125 GHz Band (Emissions Mask): KDB 987594 D02 EMC Measurement Section II-J

Unwanted emissions in restricted bands: KDB 789033 D02, Section II-G.3, G.4, G.5, and G.6.

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

AC Power Line Conducted Emissions: ANSI C63.10-2020, Section 6.2.

Radiated Spurious Emissions Below 30MHz: ANSI C63.10-2020 Section 6.4

8. 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
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	222740	2026-09-29
RF Filter Box, 1-18GHz	UL-FR1	RATS	171389	2026-03-30
EMI Test Receiver	Rohde & Schwarz	ESW44	201497	2026-02-28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	206808	2026-04-30
RF Filter Box, 1-18GHz	UL-FR1	RATS	197920	2026-03-31
EMI Test Receiver	Rohde & Schwarz	ESW44	225688	2026-02-28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	41112	2026-10-31
RF Filter Box, 1-18GHz	UL-FR1	RATS	243707	2026-04-30
EMI Test Receiver	Rohde & Schwarz	ESW44	169924	2026-02-28
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences Corp.	JB3	80714	2025-10-31
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	224491	2025-10-31
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	81139	2025-08-31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	AMPLICAL	AMP18G26.5-60	171583	2026-05-31
Antenna, Horn 26.5 to 40GHz	A.R.A.	MWH-2640/B	81105	2025-08-31
Link File, RF Amplifier Assembly, 26-40GHz, 65dB Gain	AMPLICAL	AMP26G40-65	172345	2026-05-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A-544	90238	2026-01-31
Spectrum Analyzer, PXA, 3Hz to 50GHz w/Ext. Mixer	Keysight Technologies Inc	N9030A	80400	2026-01-31
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90718	2026-03-31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	257704	2026-03-31
RF Device, Switch	UL	CSB	245262	2026-04-30
RF Device, Switch	UL	CSB	262287	2026-04-30
Antenna, Horn 18-26.5GHz	A.R.A.	MWH-1826/B	81139	2025-08-31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	Amplical	AMP18G26.5-60	220194	2026-04-29
Antenna, Horn 26.5-40GHz	A.R.A.	MWH-2640/B	81105	2025-08-31
Link File, RF Amplifier Assembly, 26.5-40GHz, 65dB Gain	Amplical	AMP26G40-65	220193	2026-04-30
EMI Test Receiver	Rohde & Schwarz	ESW44	226078	2026-02-28
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	170013	2025-07-31
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	170015	2025-07-31

AC Line Conducted				
Description	Manufacturer	Model	ID Num	Cal Due
EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESR	171646	2026-02-28
LISN for Conducted Emissions CISPR-16	Fischer Custom Communications	FCC-LISN-50/250-25-2-01-480V	175765	2026-01-31
Transient Limiter	TE	TBFL1	207996	2025-09-30
UL AUTOMATION SOFTWARE				
Conducted Software	UL	Antenna Port	Ver 2022.8.16, 2024.2.23	
Conducted Software	UL	Station Tool	Ver 5.3, 6.0, 6.1	
Radiated Software	UL	UL EMC	Ver 9.5, May 1 , 2023	
AC Line Conducted Software	UL	UL EMC	Ver 9.5, Mar 3, 2023	
TPC CONDUCTED TEST				
Description	Manufacturer	Model	ID Num	Cal Due
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	80400	2026-01-31
Step Attenuator 70dB	HP	8495B	2406A01354	N/A
Directional Coupler	Pasternack Enterprises	PE2204-6	246270	2026-05-31

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

PROCEDURE

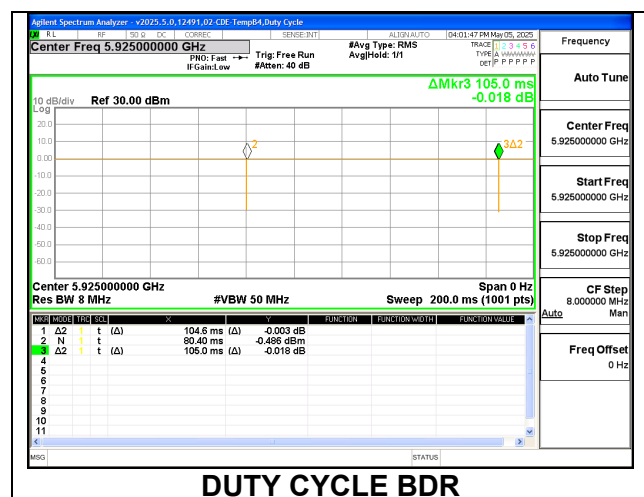
KDB 789033 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time T (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
BDR	104.60	105.00	0.996	99.6	0.00	0.010
LE1M	2.12	2.50	0.848	84.8	0.72	0.472
LE2M	1.07	1.87	0.572	57.2	2.42	0.935
HDT4	1.10	1.18	0.932	93.2	0.30	0.909
HDR4	2.79	3.75	0.744	74.4	1.28	0.358
XHDRPM8	8.07	8.76	0.921	92.1	0.36	0.124
HDRPL8	3.56	3.75	0.949	94.9	0.23	0.281

Note: The same DCCF is used for both 1TX and 2TX

DUTY CYCLE PLOTS



9.2. 26 dB AND 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

PROCEDURE

ANSI C63.10: 2020, Section 6.9.3

Worst-Case Mode	RBW (kHz)	VBW (kHz)
BDR	30	91
LE1M	30	91
LE2M	43	150
HDT4	43	150
HDR4	30	91
XHDRPM8	100	300
HDRPL8	200	620

RESULTS

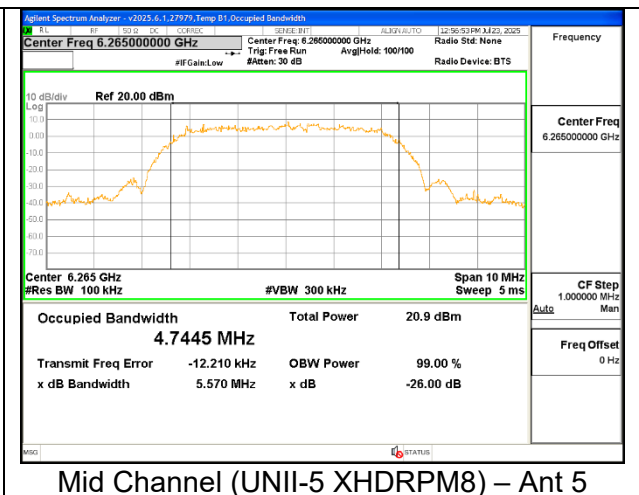
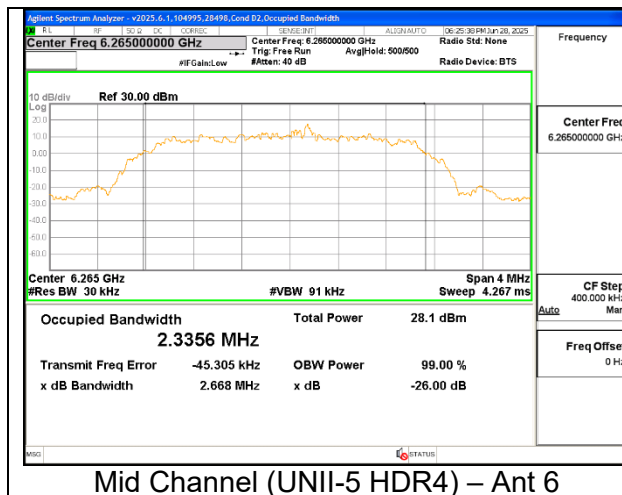
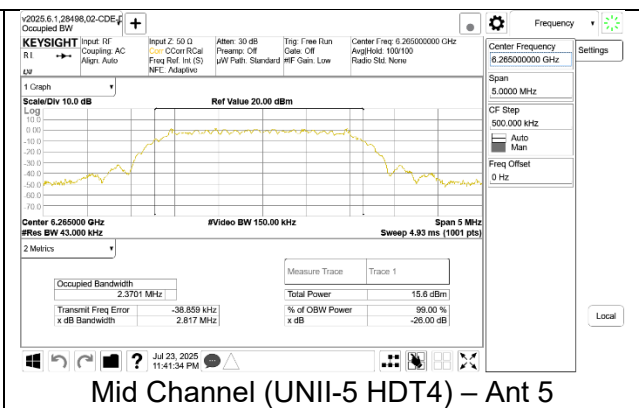
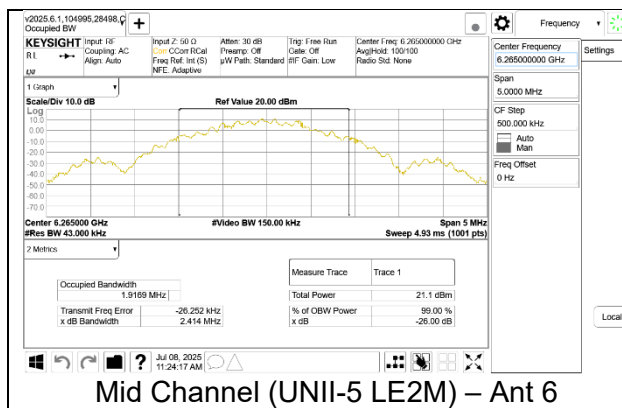
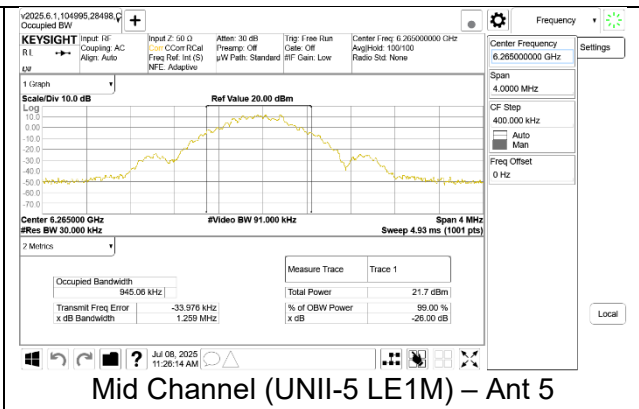
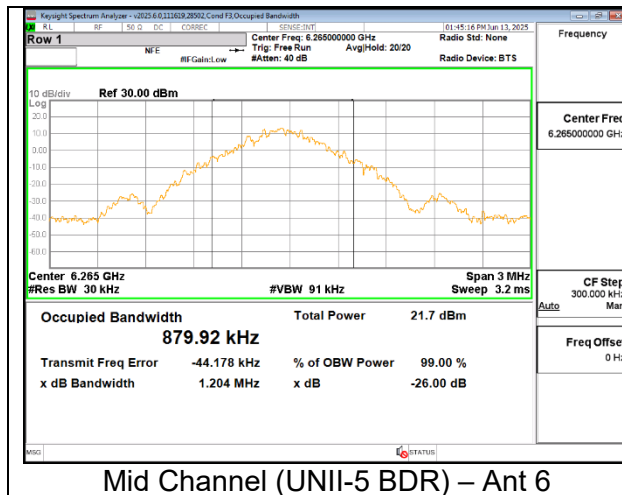
ID:	28498	Date:	2025-07-08
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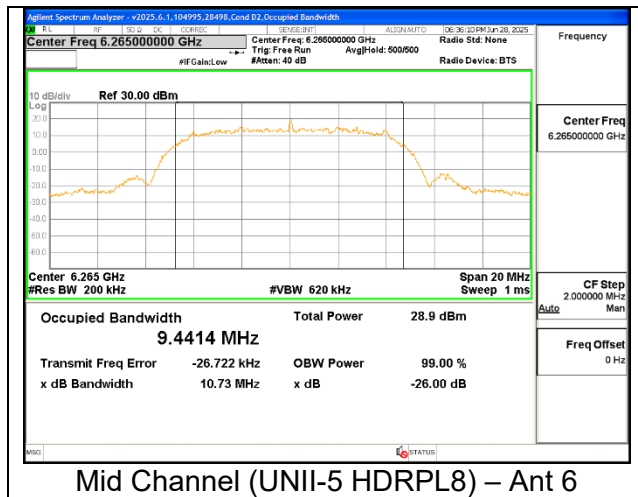
The plots in these sections are for reference settings only for different bandwidths and different antennas.

The tests performed on this device show that both 99% and 26dB bandwidths are less than 320 MHz. for all supported channel bandwidths.

9.2.1. UNII-5 BAND SISO MODE

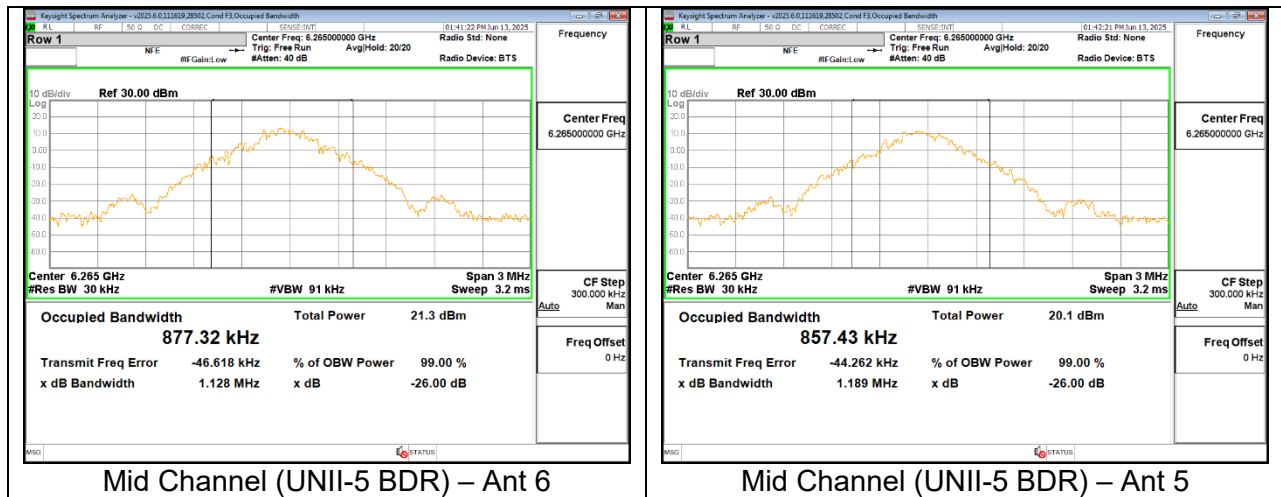
Worst-Case Mode (SISO)	Frequency (MHz)	Channel Number	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
			Ant 6	Ant 5	Ant 6	Ant 5
BDR	6106	Low	1.121	1.152	0.8566	0.8727
	6265	Mid	1.204	1.191	0.8799	0.8255
	6420	High	1.160	1.130	0.8732	0.8465
LE1M	6106	Low	1.261	1.258	0.9455	0.9513
	6265	Mid	1.259	1.259	0.9470	0.9450
	6420	High	1.257	1.256	0.9488	0.9451
LE2M	6106	Low	2.413	2.415	1.9160	1.9268
	6265	Mid	2.414	2.493	1.9169	1.9064
	6420	High	2.411	2.499	1.9235	1.9146
HDT4	6106	Low	2.819	2.813	2.3697	2.3679
	6265	Mid	2.814	2.817	2.3704	2.3701
	6420	High	2.816	2.816	2.3730	2.3710
HDR4	6106	Low	2.667	2.668	2.3254	2.3234
	6265	Mid	2.668	2.668	2.3356	2.3254
	6420	High	2.670	2.665	2.3247	2.3222
XHDRPM8	6107	Low	5.366	5.516	4.7386	4.7282
	6265	Mid	5.306	5.570	4.7281	4.7445
	6420	High	5.530	5.500	4.7385	4.7255
HDRPL8	6109	Low	10.700	10.660	9.4111	9.3207
	6265	Mid	10.730	10.590	9.4414	9.3551
	6417	High	10.620	10.580	9.3233	9.3356





9.2.2. UNII-5 BAND MIMO TXBF MODE

Worst-Case Mode (TxBF)	Frequency (MHz)	Channel Number	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
			Ant 6	Ant 5	Ant 6	Ant 5
BDR	6106	Low	1.133	1.132	0.8661	0.8472
	6265	Mid	1.128	1.189	0.8773	0.8574
	6420	High	1.130	1.191	0.8492	0.8456
LE1M	6106	Low	1.256	1.264	0.9469	0.9525
	6265	Mid	1.252	1.261	0.9451	0.9483
	6420	High	1.255	1.260	0.9398	0.9417
LE2M	6106	Low	2.411	2.412	1.9207	1.9116
	6265	Mid	2.411	2.414	1.9231	1.9302
	6420	High	2.502	2.406	1.9124	1.9234
HDT4	6106	Low	2.816	2.815	2.3690	2.3701
	6265	Mid	2.807	2.815	2.3698	2.3684
	6420	High	2.812	2.814	2.3699	2.3718
HDR4	6106	Low	2.690	2.672	2.3204	2.3252
	6265	Mid	2.706	2.671	2.3259	2.3276
	6420	High	2.691	2.666	2.3270	2.3226
XHDRPM8	6107	Low	5.548	2.377	4.7559	4.7386
	6265	Mid	5.323	5.594	4.7299	4.7497
	6420	High	5.422	5.242	4.7341	4.7192
HDRPL8	6109	Low	10.760	10.640	9.4016	9.3776
	6265	Mid	10.670	10.740	9.3650	9.3605
	6417	High	10.650	10.780	9.3150	9.4032



9.3. VLP OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Bands: 5.925–6.425 GHz and 6.525–6.875 GHz

(9) For very low power devices operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed –5 dBm e.i.r.p in any 1-megahertz band and the maximum e.i.r.p must not exceed 14 dBm.

RSS 248 4.5.6

Power limits for very low-power devices

Both of the following limits shall apply to very low-power devices:

- a. the maximum e.i.r.p. spectral density shall not exceed –5 dBm/MHz
- b. the maximum e.i.r.p. shall not exceed 14 dBm

TEST PROCEDURE

Conducted Output Power: KDB 789033 D02, Section II E.3.b (Method PM-G). Gated power measurement is used to calculate EIRP. Power does not include any corrections for duty factor.

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

RESULTS

The plots in these sections are for reference settings only for different bandwidths and different antenna ports.

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:

BF MIMO Tx chains used correlated gain for power EIRP calculation and correlated gain for PSD EIRP calculation; For the straddle channels, the higher antenna gains were chosen between two bands where straddle channels are located. The directional gains are as follows:

Frequency Range (MHz)	Sub-band (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
6105 - 6425 UNII-5	Sub-band 2 (6115 - 6255)	2.80	-6.00	0.33	2.48
	Sub-band 3 (6275 - 6415)	2.20	-7.10	-0.33	1.75

DIRECTIONAL GAIN CALCULATION:

ANSI C63.10 section 14.4.3

Uncorrelated directional gain= $10 \cdot \log((10^{(\text{Ant6}/10)} + 10^{(\text{Ant5}/10)})/2)$

Correlated directional Gain= $10 \cdot \log(((10^{(\text{Ant6}/20)} + 10^{(\text{Ant5}/20)})^2)/2)$

Sample Calculation at UNII-5 Band:

Ant 6=2.80, Ant5=-6.00

Uncorrelated Antenna gain= $10 \log[(10^{(2.80/10)} + 10^{(-6.00/10)})/2] = 0.33 \text{ dBi}$

Correlated Antenna gain= $10 \log[(10^{(2.80/20)} + 10^{(-6.00/20)})^2/2] = 2.48 \text{ dBi}$

EIRP Calculation:**1Tx**

EIRP corr'd power = Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant 6 Power= -9.04 dBm

EIRP corr'd power = -9.04 + (2.80) = -6.24 dBm

2Tx

EIRP corr'd power = $10 \cdot \text{LOG}(10^{(\text{Ant6}/10)} + 10^{(\text{Ant5}/10)}) + \text{correlated directional gain}$

Sample Calculation at UNII-5 Band:

Ant 6 Power= -11.76 dBm, Ant5 Power= -11.80 dBm

EIRP corr'd power = $10 \cdot \text{LOG}(10^{(-11.76/10)} + 10^{(-11.80/10)}) + (2.48) = -6.29 \text{ dBm}$

EIRP PSD Calculation:**1Tx**

EIRP corr'd PSD = DCCF + Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant 6 PSD= -10.380 dBm/1MHz

EIRP corr'd PSD = 0.00 + (-10.380) + (2.80) = -7.580 dBm/1MHz

2Tx (OFDMA)

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((\text{DCCF} + \text{Ant6})/10)} + 10^{((\text{DCCF} + \text{Ant5})/10)})) + \text{correlated directional gain}$

Sample Calculation at UNII-5 Band:

Ant 6 PSD= -12.424 dBm/1MHz, Ant5 PSD= -12.832 dBm/1MHz

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((0 + (-12.424))/10)} + 10^{((0 + (-12.832))/10)})) + (2.48) = -7.133 \text{ dBm/1MHz}$

9.3.1. UNII-5 BAND SISO MODE

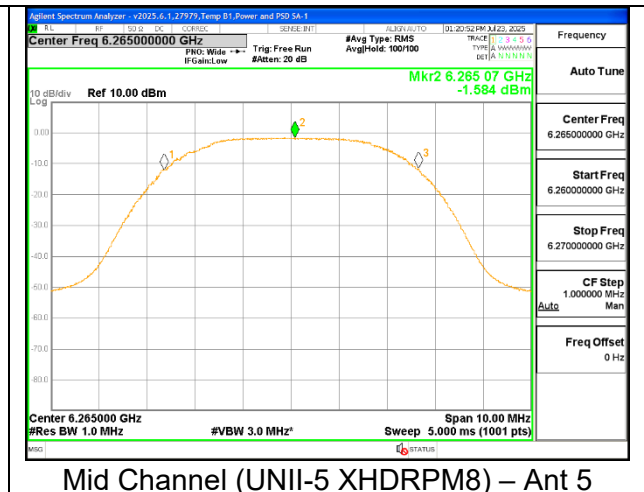
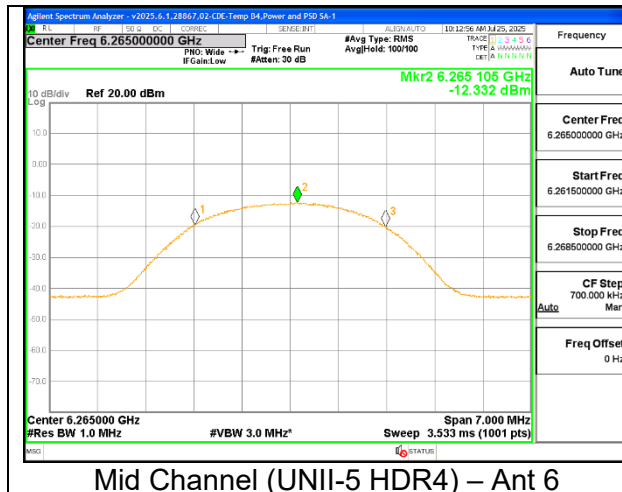
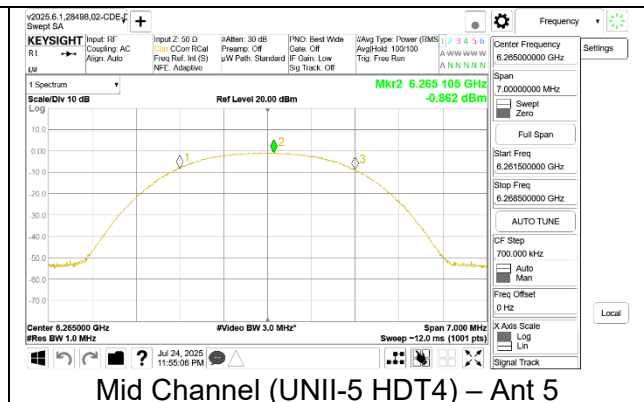
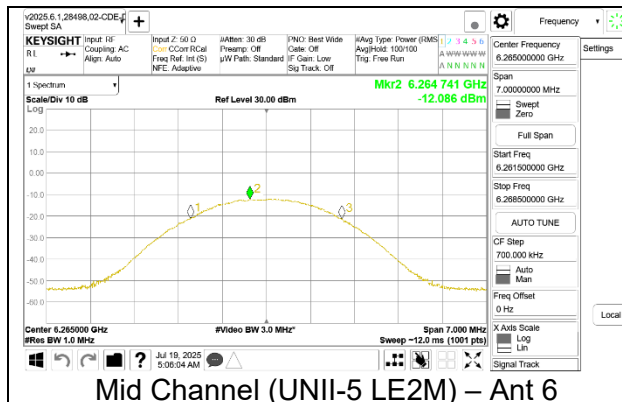
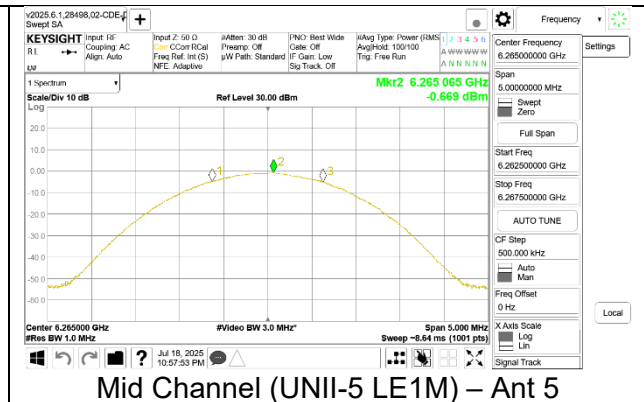
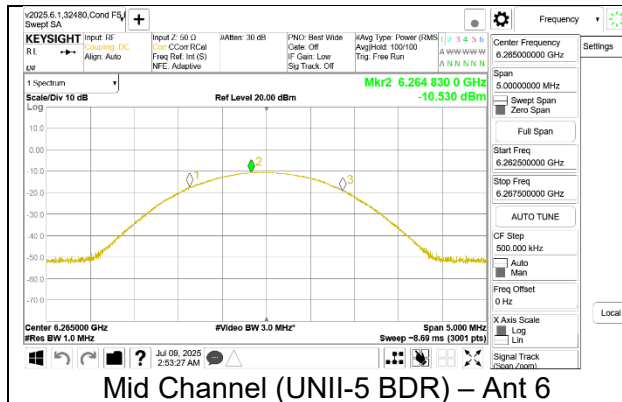
UNII-5 (SISO) (6105 - 6425MHz)	Low CH	Mid CH	High CH
Ant 6 (dBi)	2.80	2.80	2.20
Ant 5 (dBi)	-6.00	-6.00	-7.10

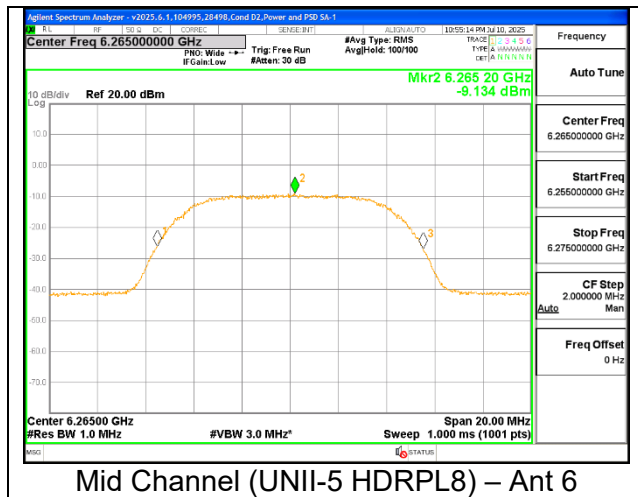
UNII-5 (SISO)	Power Config.	Freq (MHz)	Ch. #	Duty Cycle (dB)	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 14dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -5dBm/MHz EIRP)	
					Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5
BDR	High	6106	Low	0.00	-9.04	-0.79	-6.24	-6.79	-10.380	-1.770	-7.580	-7.770
		6265	Mid		-9.07	-0.80	-6.27	-6.80	-10.530	-1.676	-7.730	-7.676
		6420	High		-9.05	-0.84	-6.85	-7.94	-10.141	-1.659	-7.941	-8.759
	Low	6106	Low		-9.02	-0.84	-6.22	-6.84	-10.545	-1.914	-7.745	-7.914
		6265	Mid		-9.01	-0.82	-6.21	-6.82	-10.398	-1.741	-7.598	-7.741
		6420	High		-9.09	-0.83	-6.89	-7.93	-10.694	-1.965	-8.494	-9.065
LE1M	High	6106	Low	0.72	-8.56	-0.30	-5.76	-6.30	-10.011	-0.815	-6.491	-6.095
		6265	Mid		-8.60	-0.35	-5.80	-6.35	-10.158	-0.669	-6.638	-5.949
		6420	High		-8.52	-0.37	-6.32	-7.47	-9.897	-0.868	-6.977	-7.248
	Low	6106	Low		-8.51	-0.28	-5.71	-6.28	-10.069	-1.085	-6.549	-6.365
		6265	Mid		-8.53	-0.35	-5.73	-6.35	-9.971	-1.018	-6.451	-6.298
		6420	High		-8.58	-0.34	-6.38	-7.44	-10.387	-1.098	-7.467	-7.478
LE2M	High	6106	Low	2.42	-7.81	0.48	-5.01	-5.52	-11.928	-3.111	-6.708	-6.691
		6265	Mid		-7.83	0.44	-5.03	-5.56	-12.086	-2.818	-6.866	-6.398
		6420	High		-7.79	0.46	-5.59	-6.64	-12.094	-3.051	-7.474	-7.731
	Low	6106	Low		-7.77	0.40	-4.97	-5.60	-11.972	-3.476	-6.752	-7.056
		6265	Mid		-7.87	0.46	-5.07	-5.54	-12.051	-3.453	-6.831	-7.033
		6420	High		-7.79	0.41	-5.59	-6.69	-12.420	-3.417	-7.800	-8.097
HDT4	High	6106	Low	0.30	-6.34	1.95	-3.54	-4.05	-8.982	-0.941	-5.882	-6.641
		6265	Mid		-6.32	1.97	-3.52	-4.03	-8.912	-0.862	-5.812	-6.562
		6420	High		-6.38	1.89	-4.18	-5.21	-9.056	-0.775	-6.556	-7.575
	Low	6106	Low		-6.33	0.23	-3.53	-5.77	-9.023	-2.448	-5.923	-8.148
		6265	Mid		-6.35	0.21	-3.55	-5.79	-9.048	-2.601	-5.948	-8.301
		6420	High		-6.34	0.17	-4.14	-6.93	-8.935	-2.285	-6.435	-9.085
HDR4	High	6106	Low	1.28	-6.55	1.43	-3.75	-4.57	-12.053	-1.102	-9.300	-7.102
		6265	Mid		-6.59	1.45	-3.79	-4.55	-12.332	-1.271	-9.532	-7.271
		6420	High		-6.52	1.47	-4.32	-5.63	-12.214	-1.133	-10.014	-8.233
	Low	6106	Low		-6.59	0.15	-3.79	-5.85	-11.914	-2.307	-9.350	-8.307
		6265	Mid		-6.56	0.13	-3.76	-5.87	-12.192	-2.583	-9.392	-8.583
		6420	High		-6.59	0.22	-4.39	-6.88	-11.829	-2.359	-9.629	-9.459
XHDRPM8	High	6107	Low	0.36	-3.76	4.46	-0.96	-1.54	-10.226	-1.716	-7.066	-7.356
		6265	Mid		-3.80	4.46	-1.00	-1.54	-10.373	-1.584	-7.213	-7.224
		6420	High		-3.85	4.44	-1.65	-2.66	-10.139	-1.584	-7.579	-8.324
	Low	6107	Low		-3.84	0.19	-1.04	-5.81	-10.637	-6.286	-7.477	-11.926
		6265	Mid		-3.83	0.21	-1.03	-5.79	-10.264	-6.211	-7.104	-11.851
		6420	High		-3.84	0.19	-1.64	-6.91	-10.186	-6.096	-7.626	-12.836
HDRPL8	High	6109	Low	0.23	-0.78	7.46	2.02	1.46	-9.421	-0.123	-6.391	-5.893
		6265	Mid		-0.76	7.42	2.04	1.42	-9.134	0.139	-6.104	-5.631
		6417	High		-0.78	7.44	1.42	0.34	-9.123	0.269	-6.693	-6.601
	Low	6109	Low		-0.80	0.18	2.00	-5.82	-8.822	-7.787	-5.792	-13.557
		6265	Mid		-0.84	0.15	1.96	-5.85	-8.834	-7.403	-5.804	-13.173
		6417	High		-0.90	0.23	1.30	-6.87	-8.904	-7.418	-6.474	-14.288

Note:

EIRP Output Power (dBm) = Measured Conducted Power (dBm)+ Peak Antenna Gain (dBi)

EIRP PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) + Duty Factor (dB) + Peak Antenna Gain (dBi)





9.3.2. UNII-5 BAND MIMO TXBF MODE

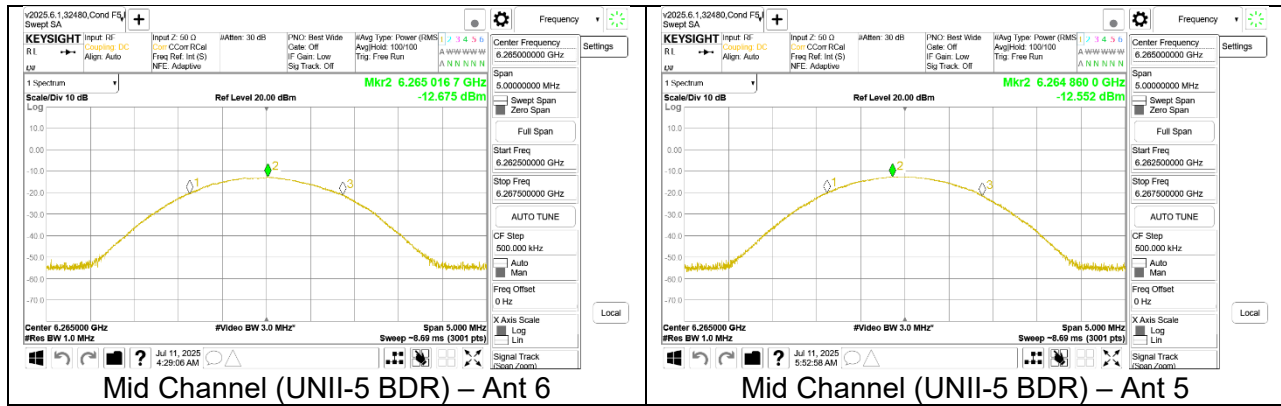
UNII-5 (MIMO BF) (6105 - 6425MHz)	Low CH	Mid CH	High CH
Un-Correlated Gain (dBi)	0.33	0.33	-0.33
Correlated Gain (dBi)	2.48	2.48	1.75

UNII-5 (MIMO BF)	Power Config.	Freq (MHz)	Ch. #	Duty Cycle (dB)	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 14dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -5dBm/MHz EIRP)
					Ant 6	Ant 5		Ant 6	Ant 5	
BDR	High	6106	Low	0.00	-11.76	-11.80	-6.29	-12.424	-12.832	-7.133
		6265	Mid		-11.82	-11.77	-6.30	-12.675	-12.552	-7.123
		6420	High		-11.81	-11.78	-7.03	-12.612	-12.478	-7.784
	Low	6106	Low		-11.83	-11.82	-6.33	-12.838	-12.735	-7.296
		6265	Mid		-11.82	-11.87	-6.35	-12.452	-12.671	-7.070
		6420	High		-11.86	-11.78	-7.06	-12.692	-12.461	-7.815
LE1M	High	6106	Low	0.72	-11.53	-11.52	-6.03	-12.116	-12.238	-5.966
		6265	Mid		-11.57	-11.51	-6.05	-12.175	-12.095	-5.925
		6420	High		-11.59	-11.53	-6.80	-12.181	-12.128	-6.674
	Low	6106	Low		-11.66	-11.55	-6.11	-12.560	-12.160	-6.145
		6265	Mid		-11.60	-11.54	-6.08	-12.265	-12.058	-5.950
		6420	High		-11.61	-11.59	-6.84	-12.269	-12.267	-6.788
LE2M	High	6106	Low	2.42	-10.58	-10.57	-5.08	-13.748	-13.812	-5.870
		6265	Mid		-10.54	-10.57	-5.06	-14.069	-14.180	-6.214
		6420	High		-10.57	-10.53	-5.79	-14.127	-13.887	-6.825
	Low	6106	Low		-10.59	-10.61	-5.11	-14.099	-14.136	-6.207
		6265	Mid		-10.58	-10.59	-5.09	-14.025	-14.163	-6.183
		6420	High		-10.54	-10.55	-5.78	-13.781	-13.877	-6.648
HDT4	High	6106	Low	0.30	-9.12	-9.07	-3.60	-12.164	-12.288	-6.435
		6265	Mid		-9.16	-9.11	-3.64	-12.409	-12.451	-6.640
		6420	High		-9.14	-9.07	-4.34	-12.431	-12.009	-7.155
	Low	6106	Low		-9.04	-9.12	-3.59	-12.003	-12.373	-6.394
		6265	Mid		-9.01	-9.14	-3.58	-12.281	-12.467	-6.583
		6420	High		-9.10	-9.10	-4.34	-12.279	-12.289	-7.224
HDR4	High	6106	Low	1.28	-9.52	-9.55	-4.04	-14.506	-14.745	-7.854
		6265	Mid		-9.54	-9.62	-4.09	-14.997	-14.812	-8.133
		6420	High		-9.57	-9.60	-4.82	-14.582	-14.920	-8.707
	Low	6106	Low		-9.65	-9.64	-4.15	-14.743	-14.416	-7.806
		6265	Mid		-9.57	-9.65	-4.12	-14.566	-14.587	-7.806
		6420	High		-9.52	-9.65	-4.82	-14.796	-14.537	-8.624
XHDRPM8	High	6107	Low	0.36	-6.55	-6.59	-1.08	-12.953	-12.749	-7.000
		6265	Mid		-6.60	-6.65	-1.13	-13.082	-12.667	-7.019
		6420	High		-6.59	-6.57	-1.82	-12.724	-12.998	-7.739
	Low	6107	Low		-6.51	-6.54	-1.03	-13.031	-12.905	-7.117
		6265	Mid		-6.57	-6.59	-1.09	-12.864	-12.692	-6.927
		6420	High		-6.60	-6.65	-1.86	-12.607	-12.879	-7.621
HDRPL8	High	6109	Low	0.23	-3.60	-3.61	1.89	-11.017	-11.064	-5.320
		6265	Mid		-3.61	-3.51	1.93	-11.619	-10.848	-5.496
		6417	High		-3.57	-3.53	1.21	-10.814	-10.664	-5.748
	Low	6109	Low		-3.53	-3.55	1.95	-11.359	-11.252	-5.585
		6265	Mid		-3.57	-3.59	1.91	-11.051	-11.112	-5.361
		6417	High		-3.59	-3.55	1.19	-11.061	-10.859	-5.969

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 1 + Ant 2) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 1 + Ant 2) + Duty Factor (dB) + Correlated Antenna Gain (dBi)



9.4. VLP SPURIOUS EMISSIONS IN-BAND– EMISSION MASK

LIMITS

FCC §15.407

(b)(7) For transmitters operating within the 5.925-7.125 GHz bands: power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

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b. the e.i.r.p. spectral density of unwanted emissions falling into the 5925-7125 MHz frequency band shall be attenuated below the reference power spectral density by:

- i. 20 dB at 1 MHz away from the channel edges
- ii. a value, linearly interpolated in a dB scale, between 20 dB and 28 dB at frequencies between 1 MHz outside of channel edges and 1 channel bandwidth away from the operating channel centre, respectively
- iii. 28 dB at 1 channel bandwidth away from the operating channel centre
- iv. a value, linearly interpolated in a dB scale, between 28 dB and 40 dB at frequencies between 1 channel bandwidth away from the operating channel centre and 1.5 times the channel bandwidth away from the operating channel centre, respectively
- v. 40 dB at one- and one-half (1.5) times the channel bandwidth away from the channel centre; and
- vi. a minimum of 40 dB at frequencies that are further away than one and one-half (1.5) times the channel bandwidth from the channel centre.

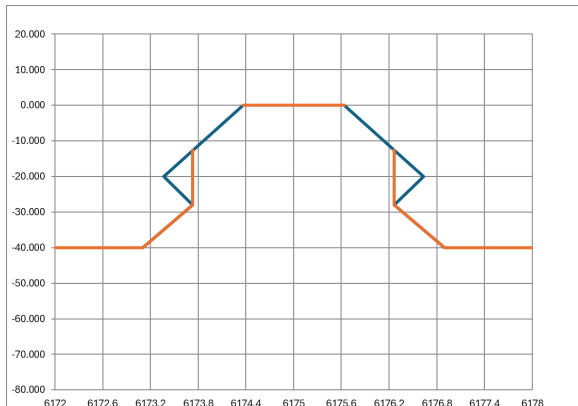
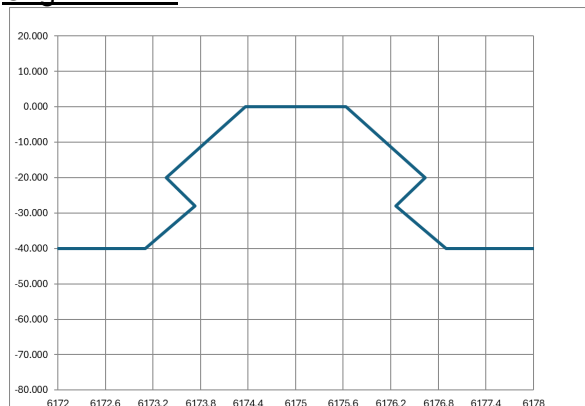
TEST PROCEDURE

Follow KDB 987594 D02, Section II-J, RBW & VBW settings were based on 26dB bandwidth test settings.

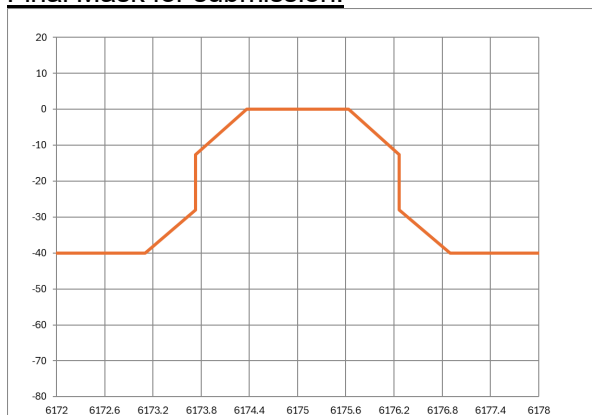
Worst-Case Mode	RBW (kHz)	VBW (kHz)
BDR	30	91
LE1M	30	91
LE2M	43	150
HDT4	43	150
HDR4	30	91
XHDRPM8	100	300
HDRPL8	200	620

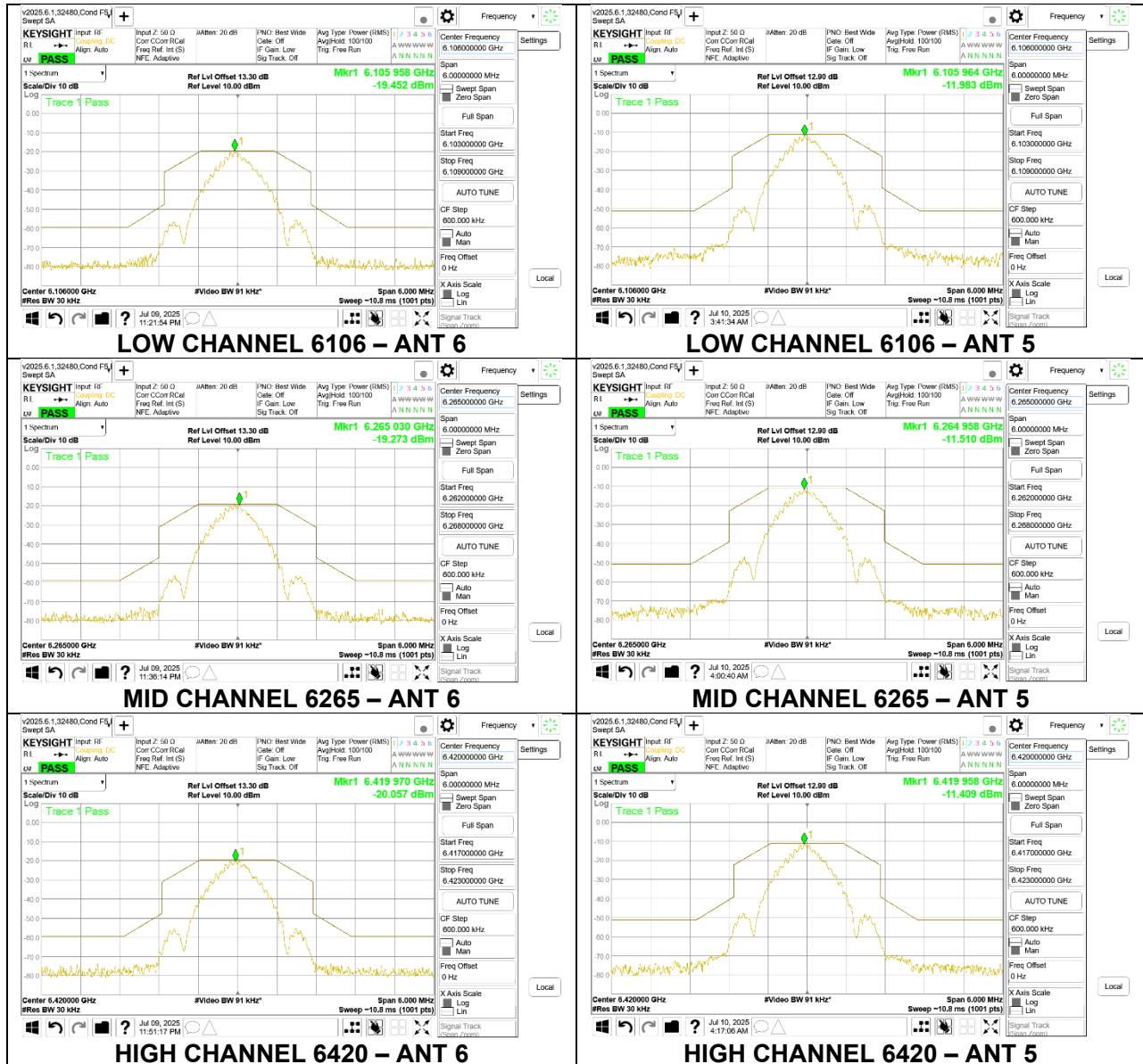
For the emission mask of EBW < 2MHz, we have created and used real limits (using the FCC formula) and removed the 'bulge', as shown in the images below.

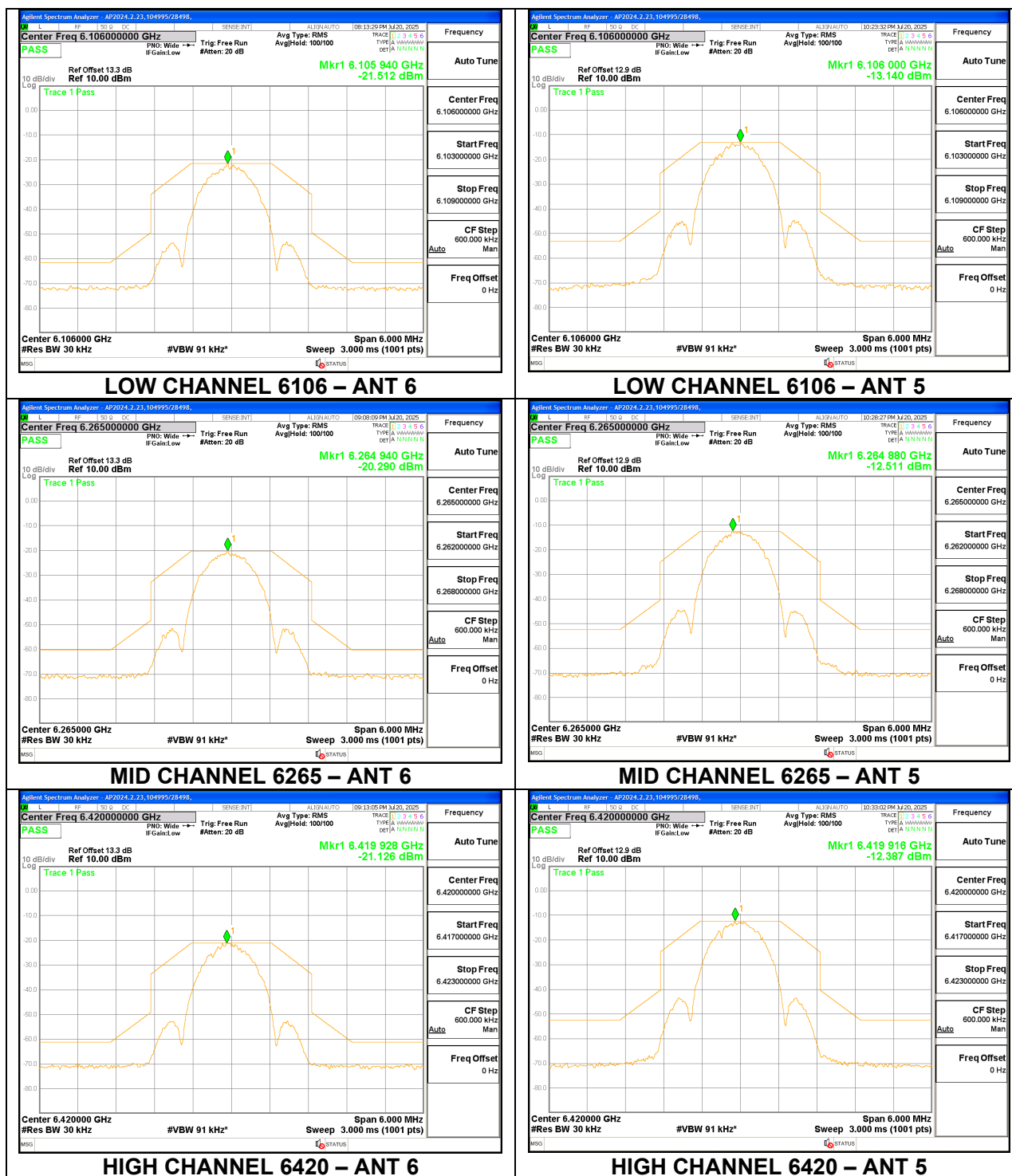
Original Mask:

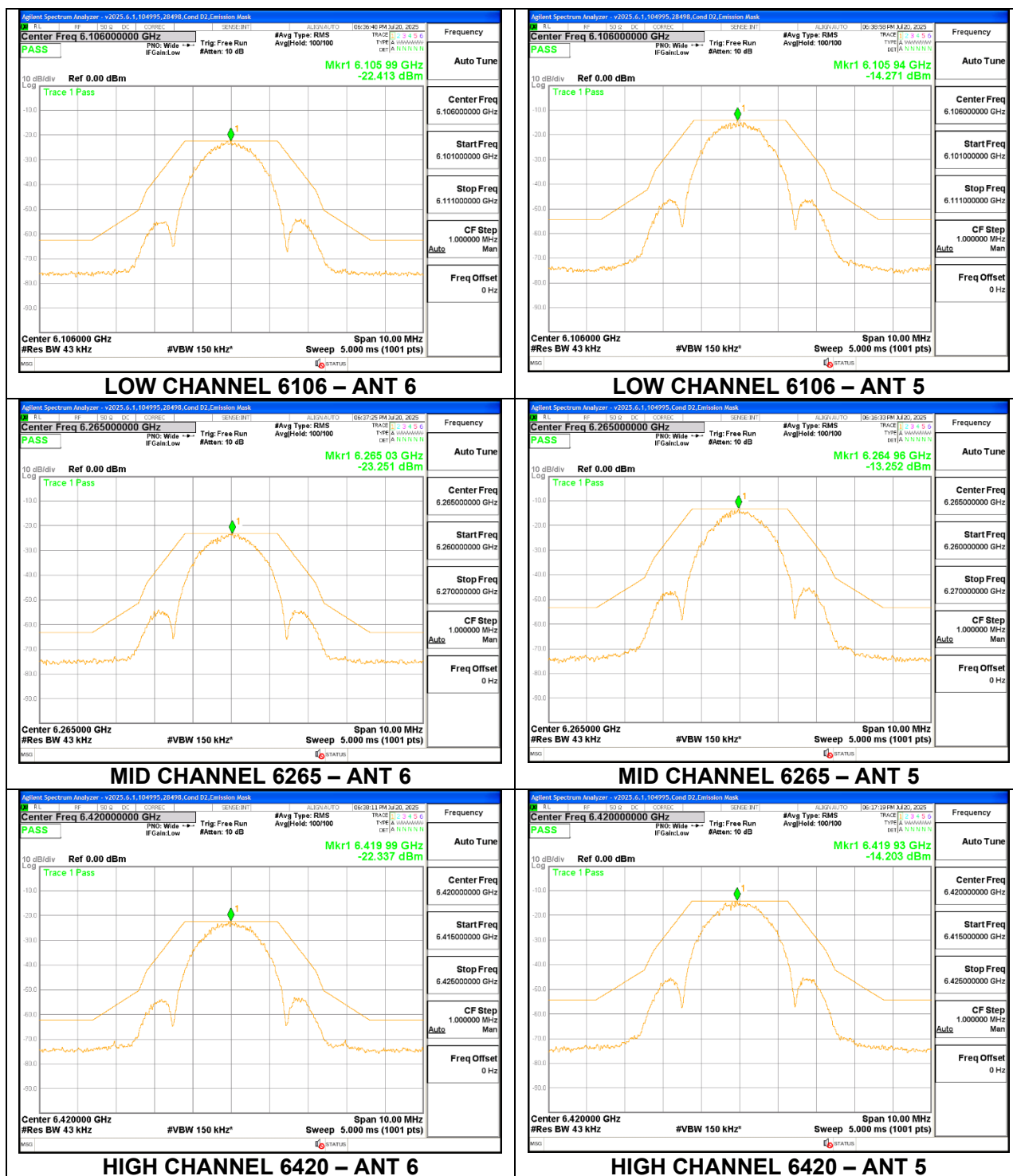


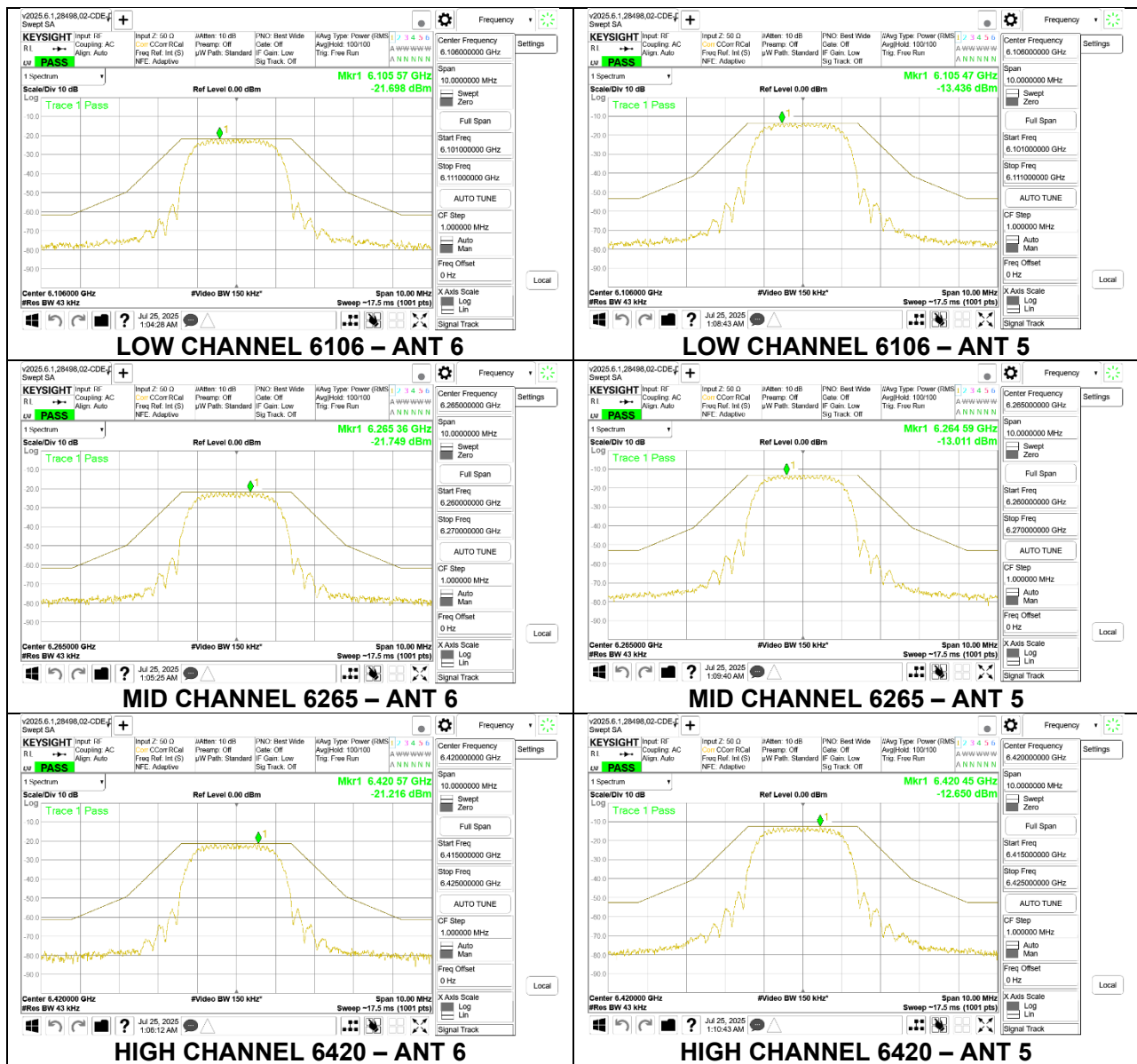
Final Mask for submission:

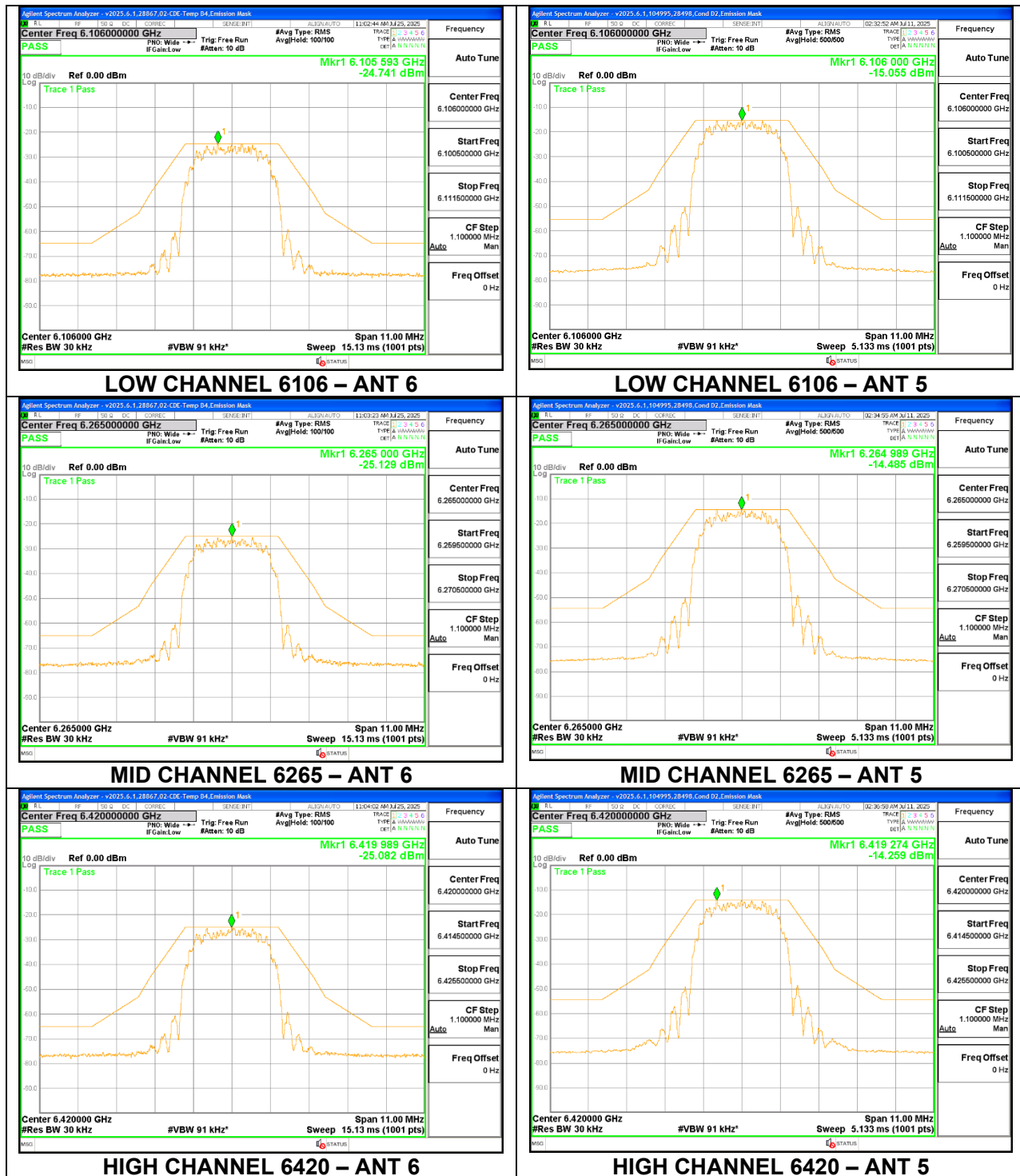


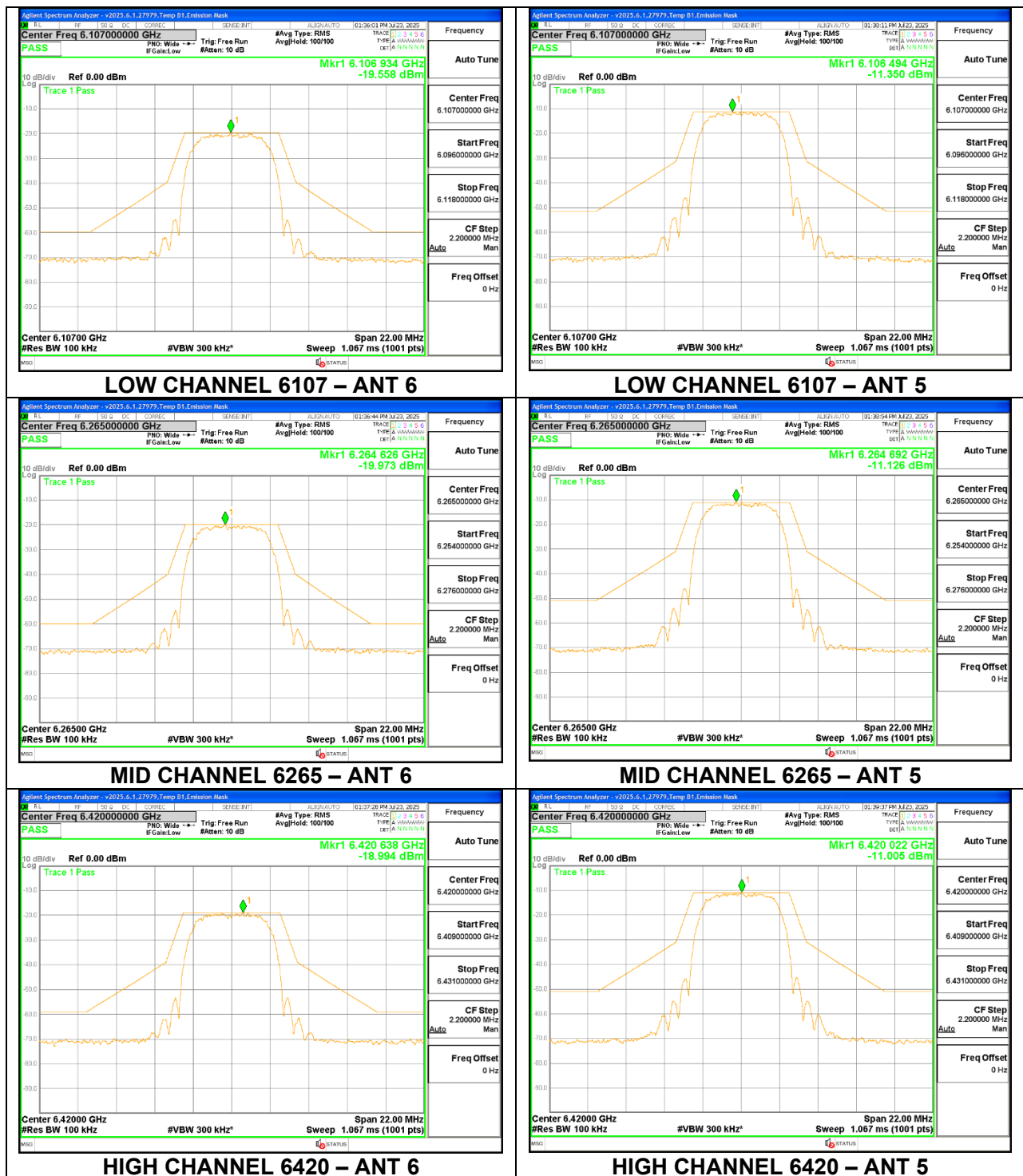
RESULTS**9.4.1. HIGH POWER UNII-5 BAND SISO MODE****BDR**

LE1M

LE2M

HDT4

HDR4

XHDRPM8

HDRPL8