

FCC Radio Test Report

FCC ID: RWO-RZ090368

This report concerns: ClassII Change

Project No.	:	2101C089B
Equipment	:	Notebook PC
Brand Name	:	RAZER
Test Model	:	RZ09-0370
Series Model	:	N/A
Applicant	:	Razer Inc.
Address	:	9 Pasteur, Suite 100, Irvine, CA92618, USA.
Manufacturer	:	Razer Inc.
Address	:	9 Pasteur, Suite 100, Irvine, CA92618, USA.
Date of Receipt	:	May 11, 2021
Date of Test	:	May 12, 2021 ~ Oct. 09, 2021
Issued Date	:	Oct. 28, 2021
Report Version	:	R01
Test Sample	:	Sample No.: DG2021011156
Standard(s)	:	FCC CFR Title 47, Part 15, Subpart E
		ANSI C63.10-2013 FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01
		FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

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The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective. Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Oct. 22, 2021
R01	Revised report to address comments.	Oct. 28, 2021

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart E							
Standard(s) Section	Test Item	Test Result	Judgment	Remark			
15.207 15.407(b)	AC Power Line Conducted Emissions		PASS				
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX A	PASS				
15.407(a)	Bandwidth		PASS				
15.407(a)	Maximum e.i.r.p.		PASS				
15.407(a)	Maximum Power Spectral Density (e.i.r.p.)		PASS				
15.407(b)	In-Band Emission (Mask)		PASS				
15.407(d)	Contention Based Protocol	APPENDIX B	PASS				
15.407(g)	Frequency Stability		PASS				
15.203 15.407(a)	Antenna Requirements		PASS	NOTE (2) NOTE (3)			

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.
- (3) The device employ a permanently attached integrated antenna.

(4) Device Type:

- ☐ Indoor access point
- Subordinate device (operating under control of a low-power indoor access point)
- Indoor client (operating under control of a low-power indoor access point)
- Dual client (operating under control of either a low-power indoor access point or standard power access point)
- Standard power access point
- Standard client (operating under control of a Standard power access point)
- Fixed client (operating under control of a Standard power access point)
- (5) In this report only the radiated spurious emissions and Contention Based Protocol were evaluated and recorded. For the test results of all other test items please refer to module test report.





1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China. BTL's Test Firm Registration Number for FCC: 357015 BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)) The BTL measurement uncertainty as below table:

A. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	1GHz ~ 6GHz	-	3.96
		6GHz ~ 18GHz	-	5.24
		18GHz ~ 26.5GHz	-	3.62
		26.5GHz ~ 40GHz	-	4.00

B. Other Measurement test:

Test Item	Uncertainty
Temperature	±0.08 °C
Humidity	±1.5%

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Radiated Emissions-Above 1000 MHz	26°C	52%	AC 120V/60Hz	Grani Zhou
Contention Based Protocol	24°C	52%	AC 120V/60Hz	Grani Zhou

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Notebook PC
Brand Name	RAZER
Test Model	RZ09-0370
Series Model	N/A
Model Difference(s)	N/A
Hardware Version	PI411_MB
Software Version	Windows 10
Power Source	 1# DC voltage supplied from AC adapter. Model: RC30-024801 2# Supplied from battery. Model: RC30-0370
Power Rating	1# I/P: 100-240V~ 3.6A 50/60Hz O/P: 19.5V === 11.8A 2# DC 15.4V 4003mAh 61.6Wh
Operation Frequency Band(s)	UNII-5: 5925 MHz ~ 6425 MHz UNII-6: 6425 MHz ~ 6525 MHz UNII-7: 6525 MHz ~ 6875 MHz UNII-8: 6875 MHz ~ 7125 MHz
Modulation Type	IEEE 802.11a/n/ac: OFDM IEEE 802.11ax: OFDMA
Bit Rate of Transmitter	IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: Up to 300 Mbps IEEE 802.11ac: Up to 1733.4 Mbps IEEE 802.11ax: Up to 2402 Mbps

Note:

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



2. Channel List:

UNII-5							
IEEE 802.	IEEE 802.11a, IEEE 802.11n(HT20), IEEE 802.11ac(VHT20), IEEE 802.11ax(HE20)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
1	5955	33	6115	65	6275		
5	5975	37	6135	69	6295		
9	5995	41	6155	73	6315		
13	6015	45	6175	77	6335		
17	6035	49	6195	81	6355		
21	6055	53	6215	85	6375		
25	6075	57	6235	89	6395		
29	6095	61	6255	93	6415		

UNII-5								
IEI	IEEE 802.11n(HT40), IEEE 802.11ac(VHT40), IEEE 802.11ax(HE40)							
Channel Frequency Channel Frequency Channel Frequency (MHz) (MHz)								
3	5965	35	6125	67	6285			
11	6005	43	6165	75	6325			
19	6045	51	6205	83	6365			
27	6085	59	6245	91	6405			

UNII-5							
	IEEE 802.11ac(VHT80), IEEE 802.11ax(HE80)						
Channel Frequency (MHz) Channel Frequency (MHz) Channel Frequency (MHz) Channel (MHz)							
7	5985	39	6145	71	6305		
23	6065	55	6225	87	6385		

UNII-5						
IEEE 802.11ac(VHT160), IEEE 802.11ax(HE160)						
Channel Frequency Channel Frequency (MHz) Channel Frequency (MHz)						
15	6025	47	6185	79	6345	



UNII-6							
IEEE 802.11a, IEEE 802.11n(HT20), IEEE 802.11ac(VHT20), IEEE 802.11ax(HE20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
97	6435	105	6475	113	6515		
101	6455	109	6495				

UNII-6						
IEEE 802.11n(HT40), IEEE 802.11ac(VHT40), IEEE 802.11ax(HE40)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
99	6445	107	6485	115	6525	

UNII-6							
IEEE 802.11ac(VHT80), IEEE 802.11ax(HE80)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
103	6465						

UNII-6						
IEEE 802.11ac(VHT160), IEEE 802.11ax(HE160)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
111	6505					



UNII-7								
IEEE 802.	IEEE 802.11a, IEEE 802.11n(HT20), IEEE 802.11ac(VHT20), IEEE 802.11ax(HE20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)			
117	6535	141	6655	165	6775			
121	6555	145	6675	169	6795			
125	6575	149	6695	173	6815			
129	6595	153	6715	177	6835			
133	6615	157	6735	181	6855			
137	6635	161	6755	185	6875			

UNII-7							
IEEE 802.11n(HT40), IEEE 802.11ac(VHT40), IEEE 802.11ax(HE40)							
Channel Frequency Channel Frequency (MHz)				Channel	Frequency (MHz)		
123	6565	147	6685	171	6805		
131	6605	155	6725	179	6845		
139	6645	163	6765				

UNII-7							
IEEE 802.11ac(VHT80), IEEE 802.11ax(HE80)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
119	6545	151	6705	183	6865		
135	6625	167	6785				

UNII-7							
IEEE 802.11ac(VHT160), IEEE 802.11ax(HE160)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
143	6665	175	6825				



UNII-8								
IEEE 802.	IEEE 802.11a, IEEE 802.11n(HT20), IEEE 802.11ac(VHT20), IEEE 802.11ax(HE20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)					
189	6895	205	6975	221	7055			
193	6915	209	6995	225	7075			
197	6935	213	7015	229	7095			
201	6955	217	7035	233	7115			

IEEE 802.11n(HT40), IEEE 802.11ac(VHT40), IEEE 802.11ax(HE40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
187	6885	203	6965	219	7045		
195	6925	211	7005	227	7085		

UNII-8							
IEEE 802.11ac(VHT80), IEEE 802.11ax(HE80)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
199	6945	215	7025				

UNII-8						
	IEEE 802.11ac(VHT160), IEEE 802.11ax(HE160)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
207	6985					

3. Table for Filed Antenna:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	Amphenol	BY5894-16-001-C	PIFA	N/A	4.79
2	Amphenol	BY5894-16-002-C	PIFA	N/A	4.92

Note:

1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).

2) Ant. 1 refers to main antenna, Ant. 2 refers to aux antenna.

3) The antenna gain is provided by the manufacturer.



4. Table for Antenna Configuration:

Operating Mode TX Mode	2TX
IEEE 802.11a	V (Ant. 1+ Ant. 2)
IEEE 802.11n(HT20)	V (Ant. 1+ Ant. 2)
IEEE 802.11n(HT40)	V (Ant. 1+ Ant. 2)
IEEE 802.11ac(VHT20)	V (Ant. 1+ Ant. 2)
IEEE 802.11ac(VHT40)	V (Ant. 1+ Ant. 2)
IEEE 802.11ac(VHT80)	V (Ant. 1+ Ant. 2)
IEEE 802.11ac(VHT160)	V (Ant. 1+ Ant. 2)
IEEE 802.11ax(HE20)	V (Ant. 1+ Ant. 2)
IEEE 802.11ax(HE40)	V (Ant. 1+ Ant. 2)
IEEE 802.11ax(HE80)	V (Ant. 1+ Ant. 2)
IEEE 802.11ax(HE160)	V (Ant. 1+ Ant. 2)



2.2 TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX AX(HE160) Mode Channel 79 (UNII-5)
Mode 2	TX AX(HE160) Mode Channel 111 (UNII-6)
Mode 3	TX AX(HE160) Mode Channel 143 (UNII-7)

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

Radiated Emissions Test - Above 1GHz			
Final Test Mode Description			
Mode 1	TX AX(HE160) Mode Channel 79 (UNII-5)		
Mode 2	TX AX(HE160) Mode Channel 111 (UNII-6)		
Mode 3	TX AX(HE160) Mode Channel 143 (UNII-7)		

Note:

IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.



3. RADIATED EMISSIONS

3.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS (Above 1000 MHz)

Frequency	EIRP Limit	Equivalent Field Strength at 3m
(MHz)	(dBm/MHz)	(dBµV/m)
5925-7125	Average: -27	68.2

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS (Above 1000 MHz)

Frequency	EIRP Limit	Band edge	Harmonic
(MHz)	(dBm/MHz)	at 3m (dBµV/m)	at 1.5m (dBµV/m)
5925-7125	Average: -27	68.2	74.2 (Note 2)

NOTE:

(1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength: $-1000000\sqrt{30P}$

3.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- b. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- d. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- e. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- g. For the actual test configuration, please refer to the related Item -EUT Test Photos.

Spectrum Parameters	Setting	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic or 40 GHz, whichever is lower	
RBW / VBW	1 MHz / 3 MHz for PK value	
(Emission in restricted band)	1 MHz / 1/T Hz for AVG value	

The following table is the setting of the receiver:

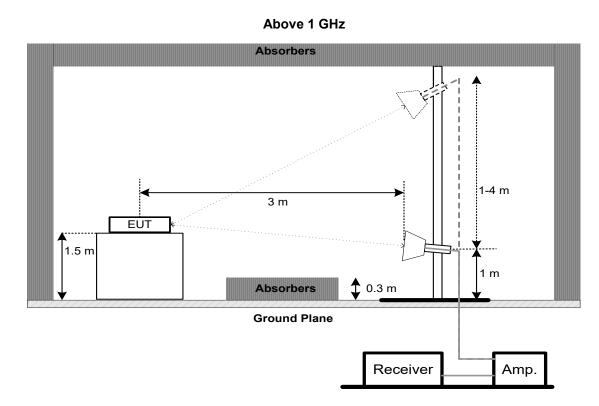
Receiver Parameters	Setting	
Start ~ Stop Frequency	1 GHz~40 GHz for PK/AVG detector	



3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

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

3.6 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX A.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.



4. CONTENTION BASED PROTOCOL

4.1 LIMIT

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. The EUT with a lowest gain is 4.79dBi. All power injected into EUT should be -62+4.79=-57.21dBm To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.



4.2 TEST PROCEDURE

a. Number of times detection threshold:

lf	Number of Tests	Placement of Incumbent Transmission
BW _{FUT} ≤BW _{Inc}	Once	Tune incumbent and EUT transmissions
		$(f_{c1}=f_{c2})$
$BW_{Inc} \leq BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW _{EUT}
2BW _{Inc} <bw<sub>EUT<4BW_{Inc}</bw<sub>	Twice. Incumbent transmission is contained within BW _{EUT}	Incumbent transmi⊡sion is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
BW _{EUT} >4BW _{Inc}	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel□ and as closely as possible to the upper edge of the EUT channel

Where:

BW_{EUT}: Transmission bandwidth of EUT signal.

- BWInc: Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal).
- f_{c1}: Center frequency of EUT transmission.
- f_{c2}: Center frequency of simulated incumbent signal.
- b. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use step b table to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- c. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer and the EUT as show in the block diagram below.
- d. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer.
- e. Monitor the signal analyzer to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- f. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- g. Refer to step b table to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step c, choose a different center frequency for the AWGN signal and repeat the process.



4.5 EUT OPERATION CONDITIONS

The EUT was Configured to be in normally transmitting mode with a constant duty cycle.

4.6 TEST RESULTS

Please refer to the APPENDIX B.

5. MEASUREMENT INSTRUMENTS LIST

	Radiated Emissions - Above 1 GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Double Ridged Guide Antenna	ETS	3115	75789	May 10, 2022		
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022		
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022		
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 28, 2022		
5	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022		
6	Controller	СТ	SC100	N/A	N/A		
7	Controller	MF	MF-7802	MF780208416	N/A		
8	Cable	N/A	EMC104-SM-SM-6 000	N/A	Oct. 16, 2021		
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
10	Band Reject Filter	Micro-Tronics	BRC50705-01	10	Feb. 27, 2022		
11	Band Reject Filter	Micro-Tronics	BRC50704-01	8	Feb. 27, 2022		
12	Band Reject Filter	Micro-Tronics	BRC50703-01	7	Feb. 27, 2022		
13	966 Chambe Room	RM	9*6*6m	N/A	Jul. 25, 2022		

	Contention Based Protocol						
Item Kind of Equipment		Manufacturer	Type No.	Serial No.	Calibrated until		
1	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	Jul. 10,2022		
2	Frequency expansion instrument	Keysight	N5182BX07	MY59360135	N/A		
3	MXG Vector Signal Gener ator	Keysight	N5182B	MY57300568	Jul. 10,2022		
4	Wi-Fi Router	ASUS	GT-AXE11000	N/A	N/A		
5	POWER SPLITTER	Mini-Circuits	ZFRSC-183-S+	SFG32801811-2	Feb. 07, 2022		
6	POWER SPLITTER	Mini-Circuits	ZFRSC-183-S+	SFG32801811-1	Feb. 07, 2022		
7	Cable	N/A	EMC104-SM-SM-6 000	N/A	Oct. 16, 2021		

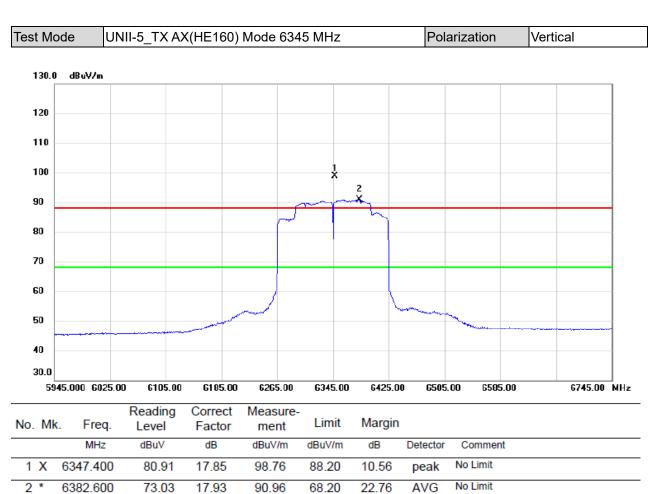
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.



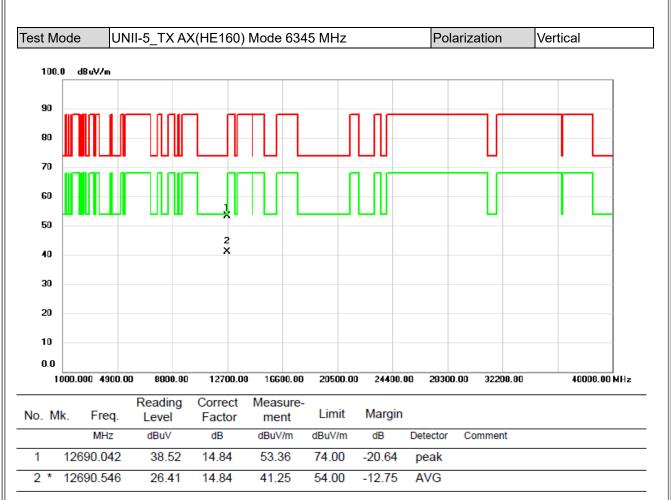
APPENDIX A - RADIATED EMISSION - ABOVE 1000 MHZ





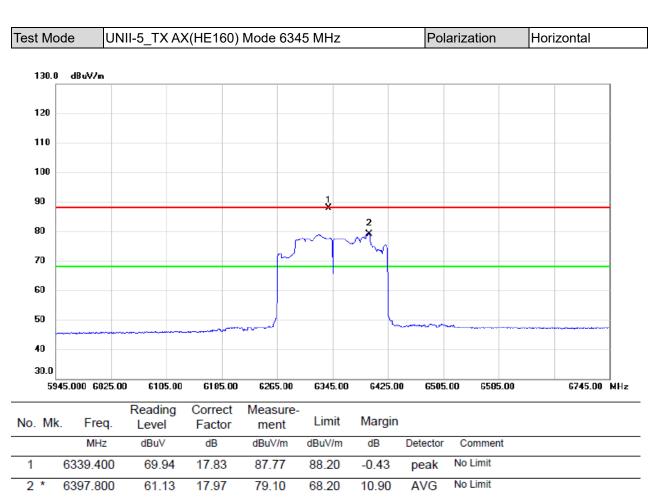
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





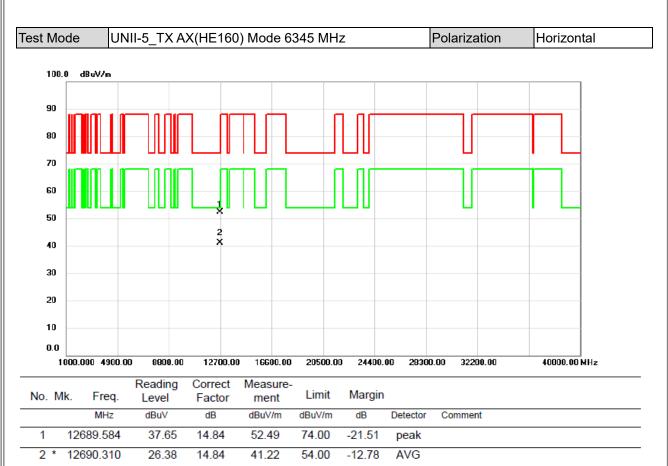
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





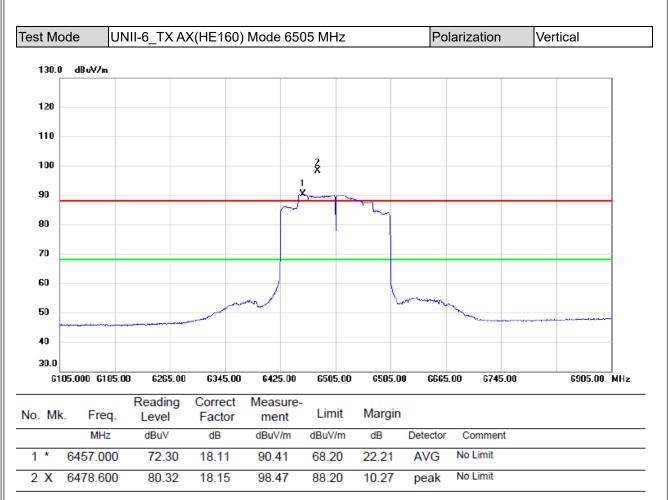
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





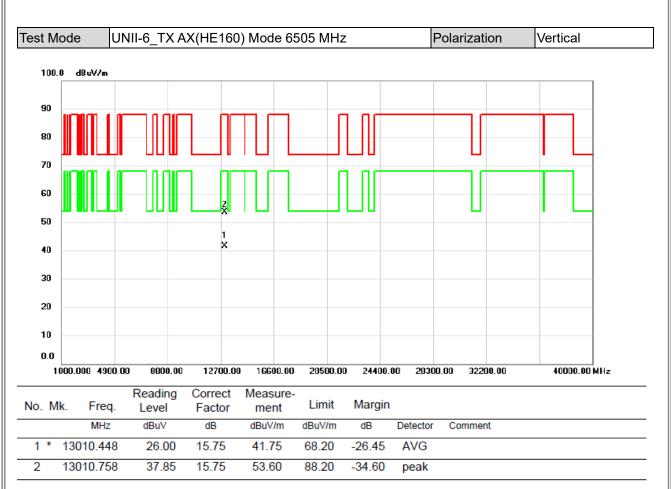
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





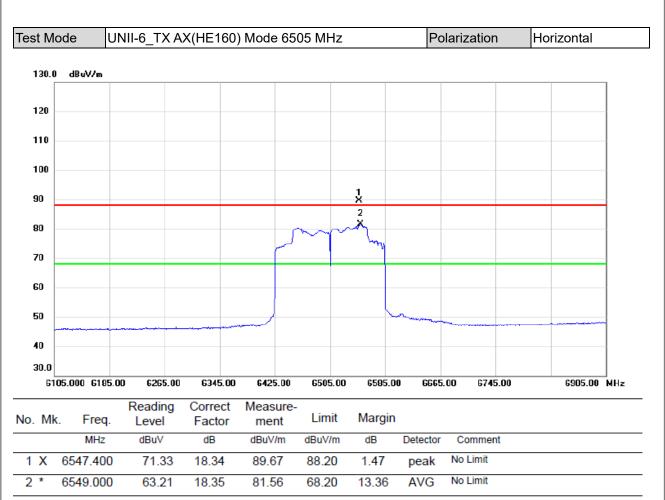
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





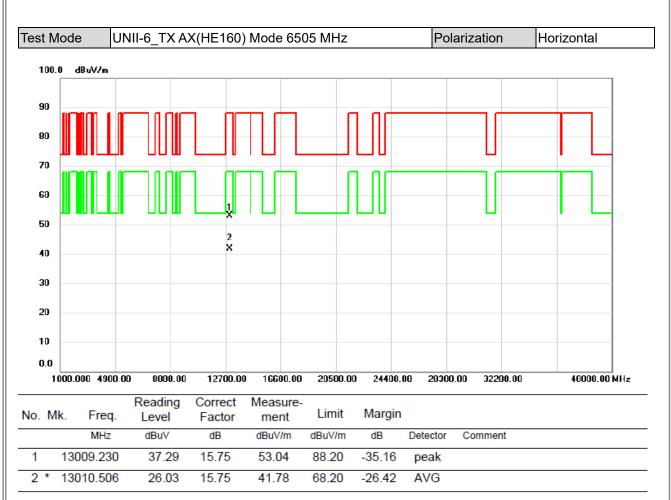
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





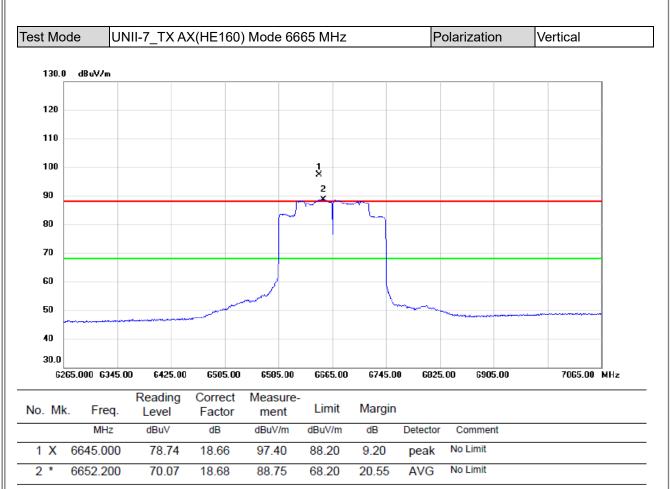
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





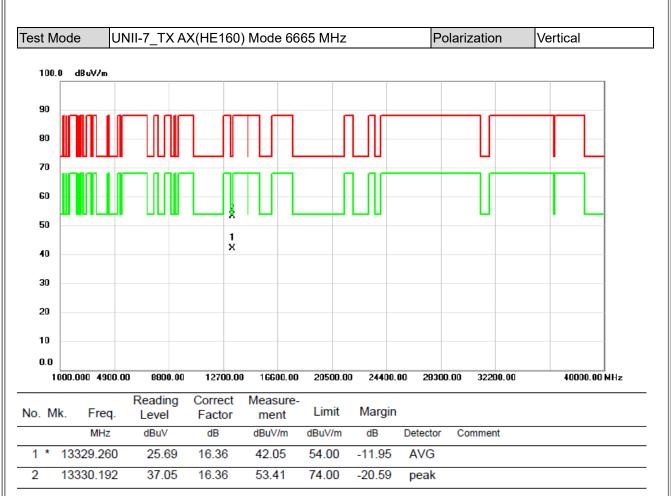
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





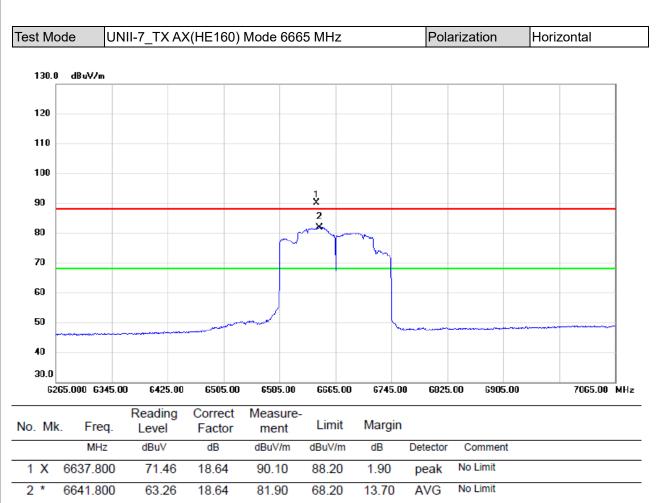
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





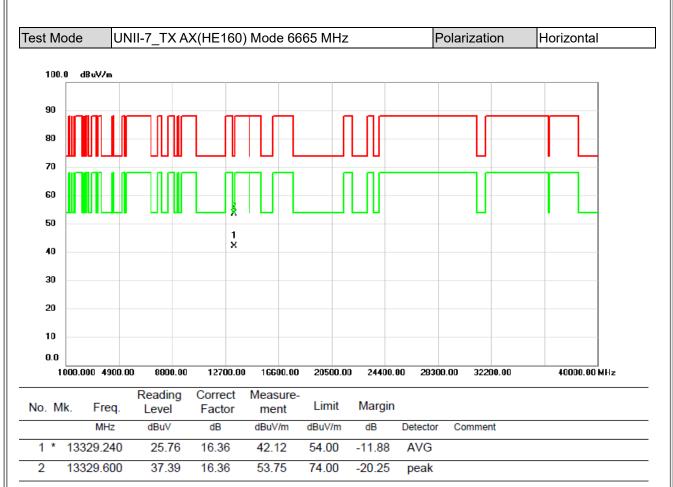
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





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



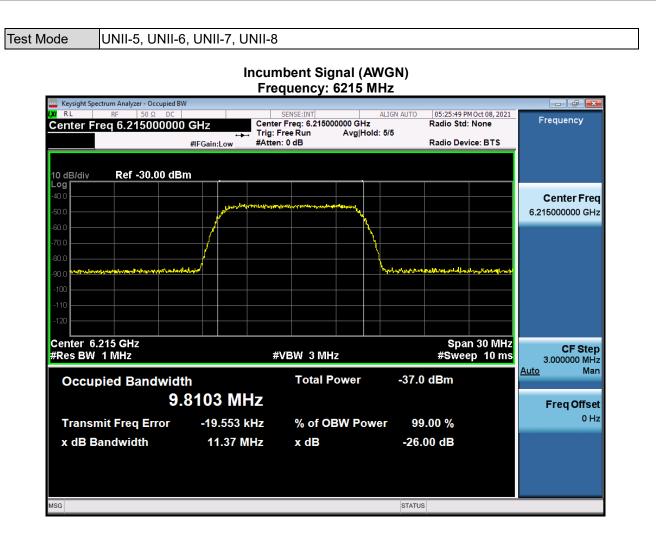


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

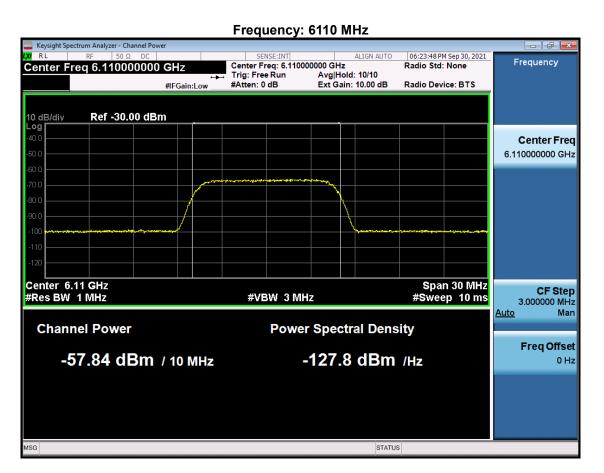


APPENDIX B - CONTENTION BASED PROTOCOL





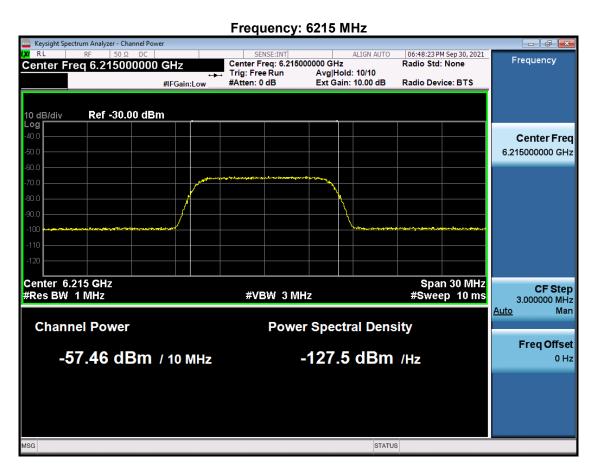




Frequency: 6185 MHz



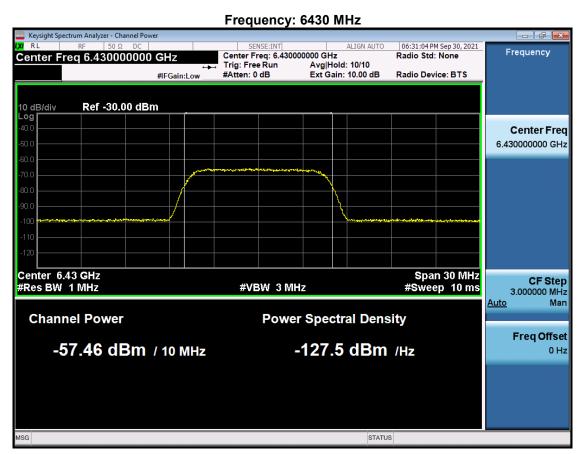


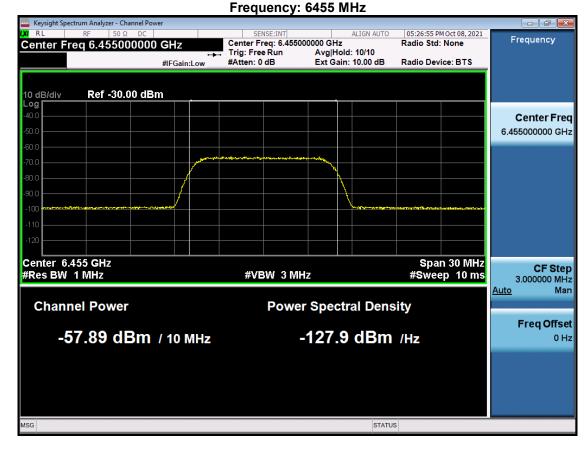


Frequency: 6260 MHz

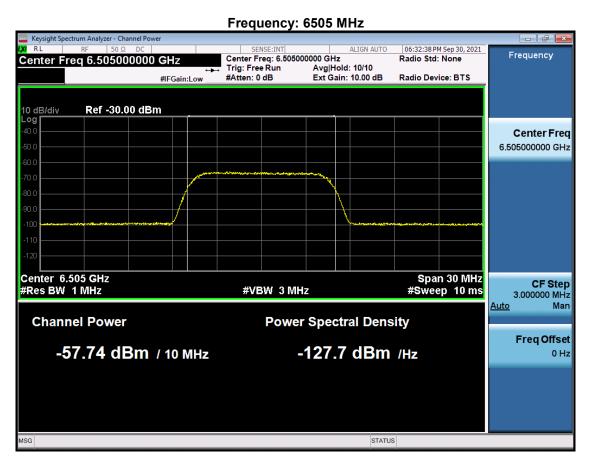




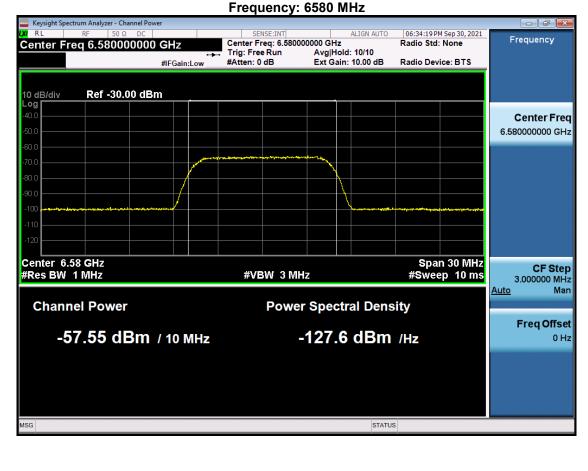




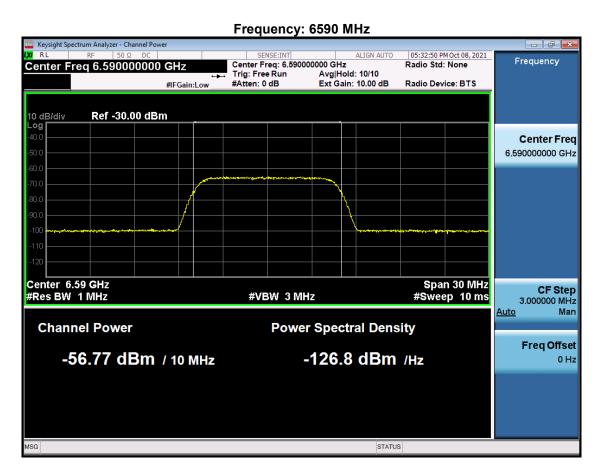




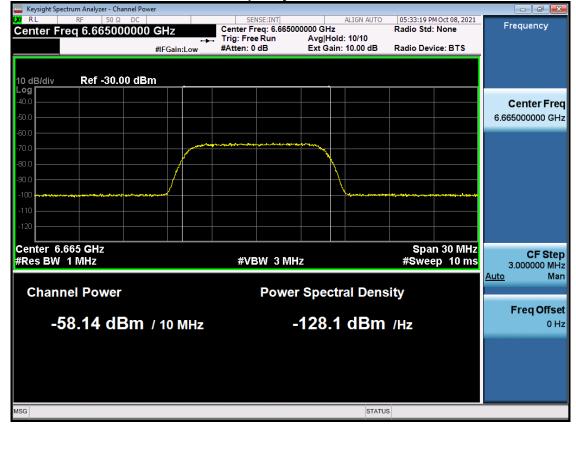
Eroqueney CEOO MU-



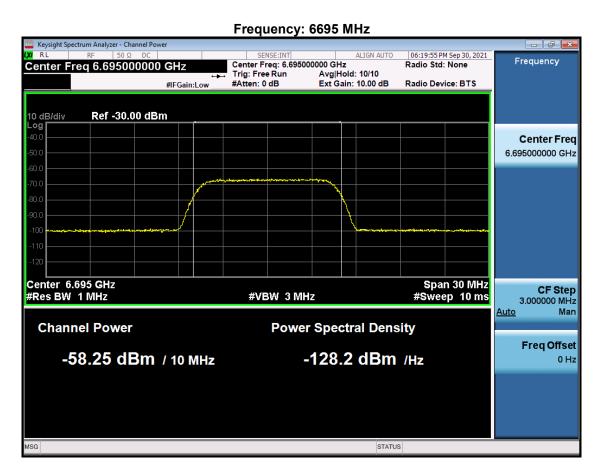




Frequency: 6665 MHz



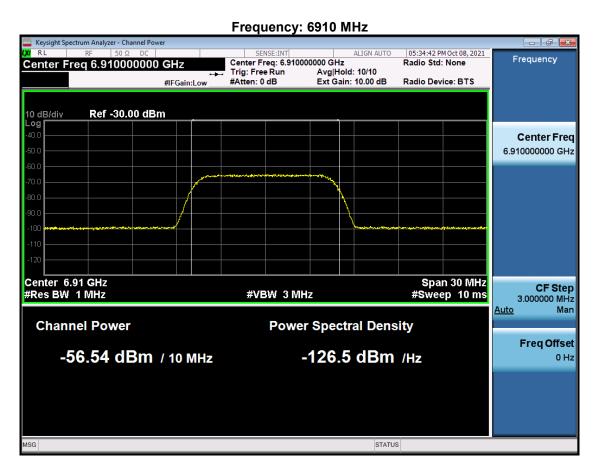




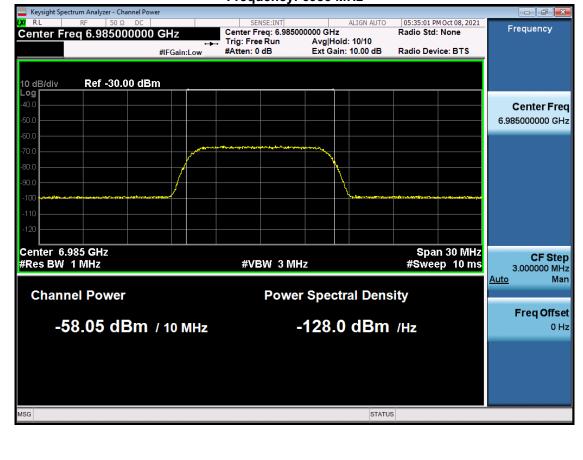
Frequency: 6740 MHz



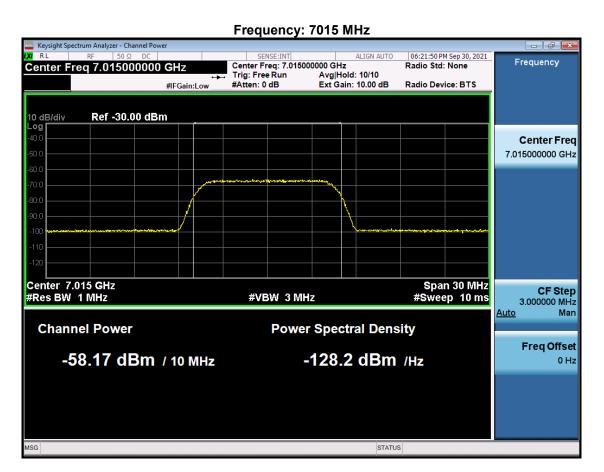




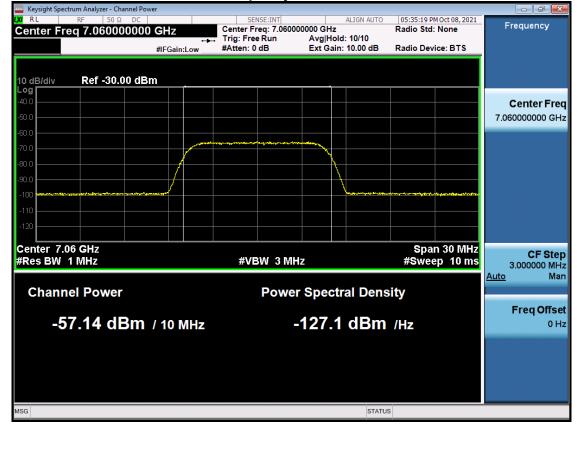
Frequency: 6985 MHz





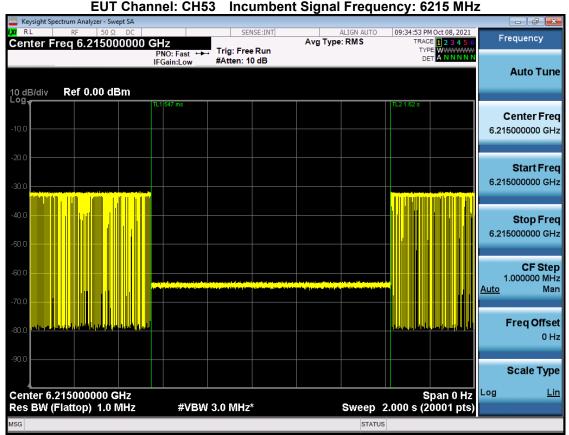


Frequency: 7060 MHz



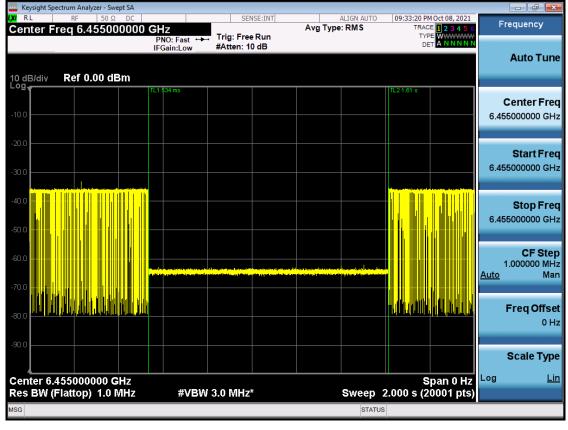
Bands	Test Mode	Bandwidth (MHz)	Channel	Frequency (MHz)	interference Frequency (MHz)	Detection power level (dBm)	Detection Power Limit	Number of Times	Number of Detected	Detection Probability	Detection Probability Limit	Test Result
UNII-5	802.11a	20	53	6215	6215	-58.97	-57.21	10	10	100%	90%	Pass
	802.11ax	160	47	6185	6110	-59.26	-57.21	10	9	90%	90%	Pass
					6185	-59.32	-57.21	10	10	100%	90%	Pass
					6260	-59.34	-57.21	10	10	100%	90%	Pass
UNII-6	802.11a	20	101	6455	6455	-58.97	-57.21	10	9	90%	90%	Pass
	802.11ax	160	111	6505	6430	-59.26	-57.21	10	10	100%	90%	Pass
					6505	-59.32	-57.21	10	9	90%	90%	Pass
					6580	-59.34	-57.21	10	10	100%	90%	Pass
UNII-7	802.11a	20	149	6695	6695	-59.12	-57.21	10	9	90%	90%	Pass
	802.11ax	160	143	6665	6590	-58.63	-57.21	10	10	100%	90%	Pass
					6665	-58.59	-57.21	10	9	90%	90%	Pass
					6740	-59.36	-57.21	10	10	100%	90%	Pass
UNII-8	802.11a	20	213	7015	7015	-59.31	-57.21	10	9	90%	90%	Pass
	802.11ax	160	207	6985	6910	-59.25	-57.21	10	10	100%	90%	Pass
					6985	-58.79	-57.21	10	9	90%	90%	Pass
					7060	-59.13	-57.21	10	10	100%	90%	Pass

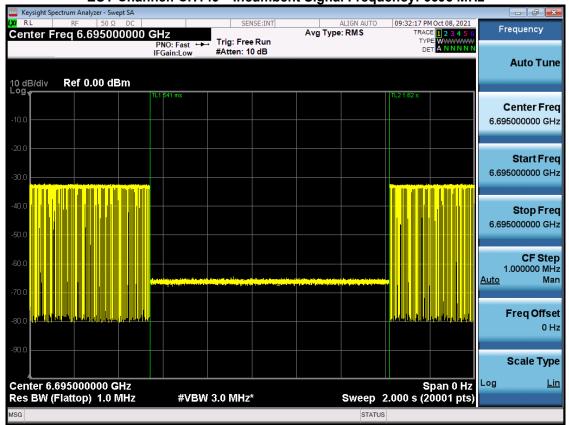
Detection power level and detection probability



Contention-Based Protocol EUT Channel: CH53 Incumbent Signal Frequency: 6215 MHz

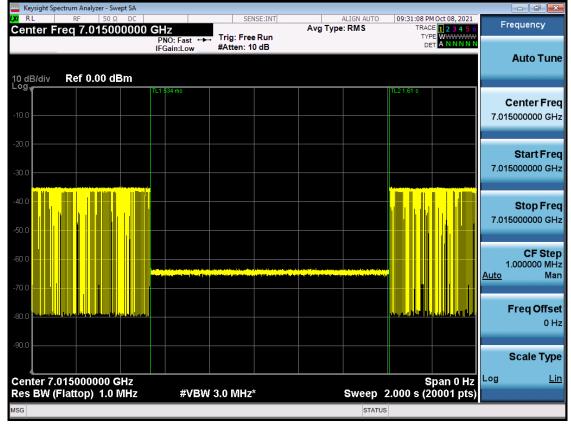
EUT Channel: CH101 Incumbent Signal Frequency: 6455 MHz

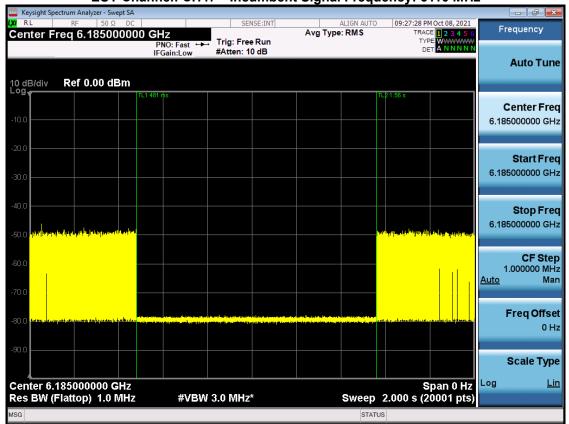




EUT Channel: CH149 Incumbent Signal Frequency: 6695 MHz

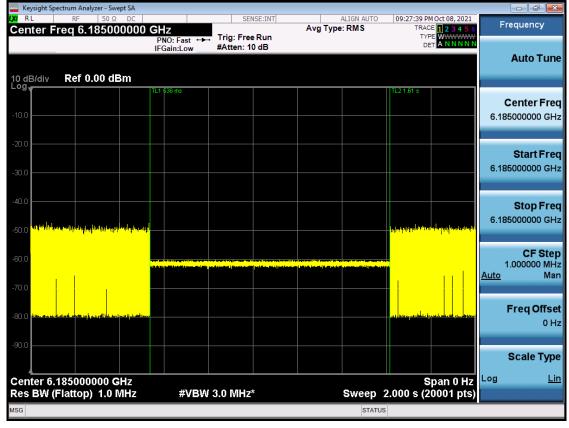
EUT Channel: CH213 Incumbent Signal Frequency: 7015 MHz

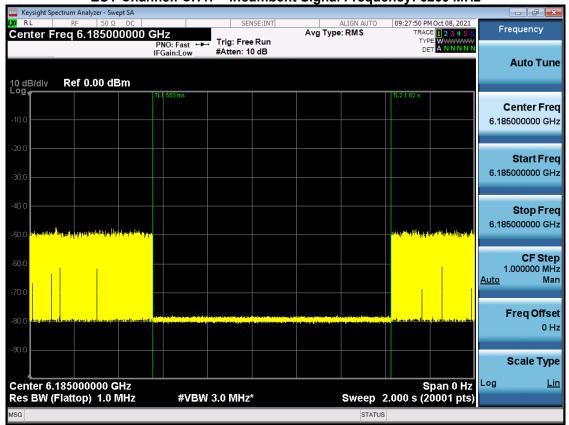




EUT Channel: CH47 Incumbent Signal Frequency: 6110 MHz

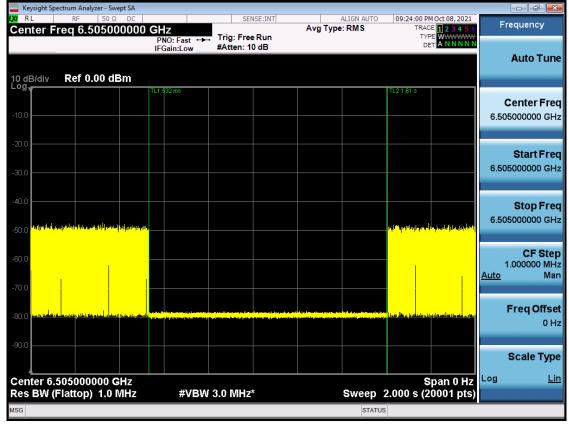
EUT Channel: CH47 Incumbent Signal Frequency: 6185 MHz

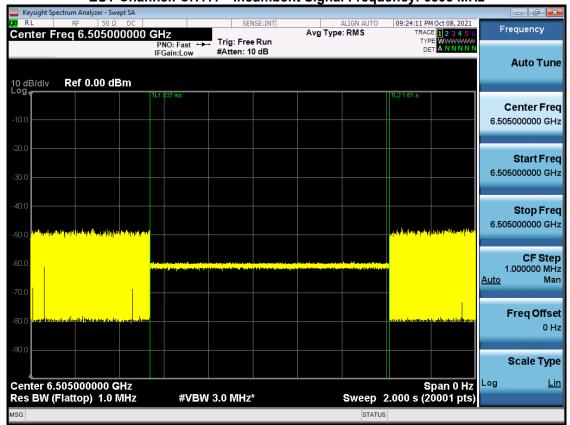




EUT Channel: CH47 Incumbent Signal Frequency: 6260 MHz

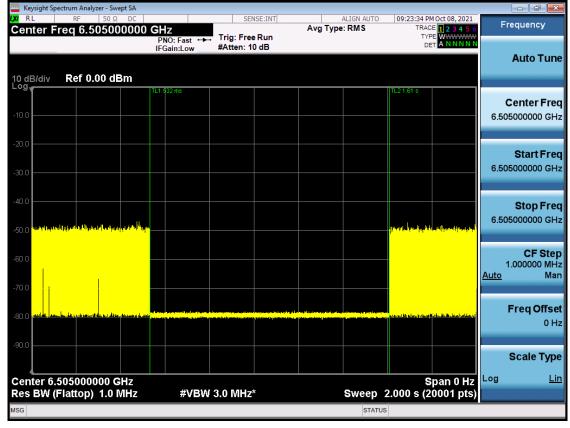
EUT Channel: CH111 Incumbent Signal Frequency: 6430 MHz



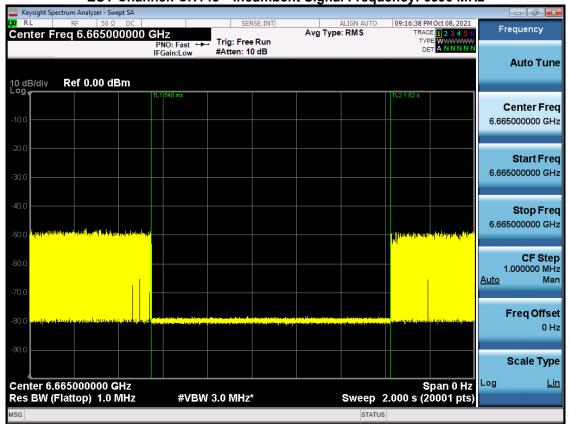


EUT Channel: CH111 Incumbent Signal Frequency: 6505 MHz

EUT Channel: CH111 Incumbent Signal Frequency: 6580 MHz

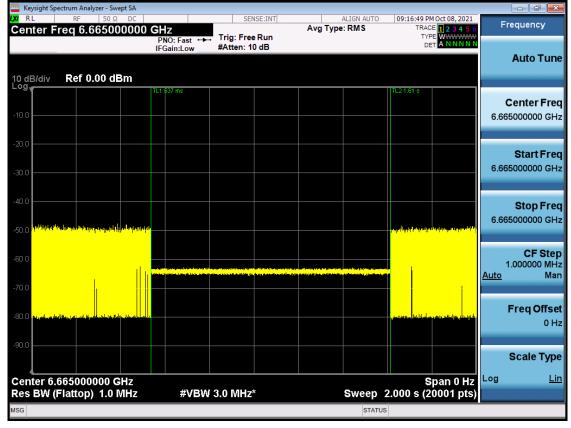


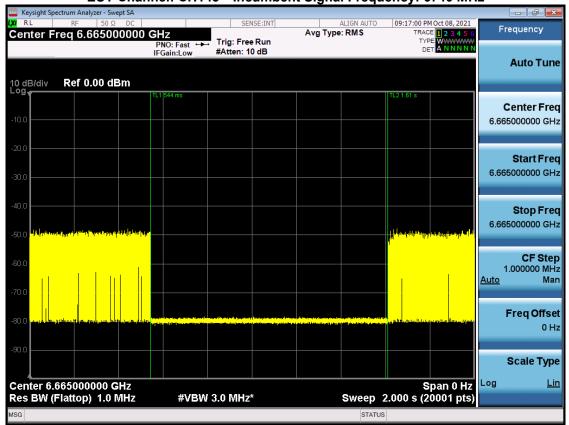




EUT Channel: CH143 Incumbent Signal Frequency: 6590 MHz

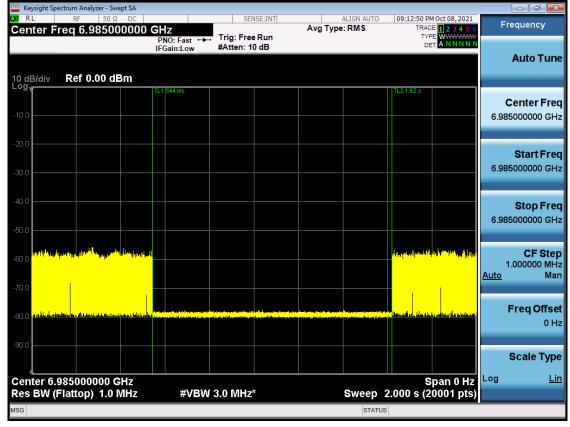
EUT Channel: CH143 Incumbent Signal Frequency: 6665 MHz





EUT Channel: CH143 Incumbent Signal Frequency: 6740 MHz

EUT Channel: CH207 Incumbent Signal Frequency: 6910 MHz

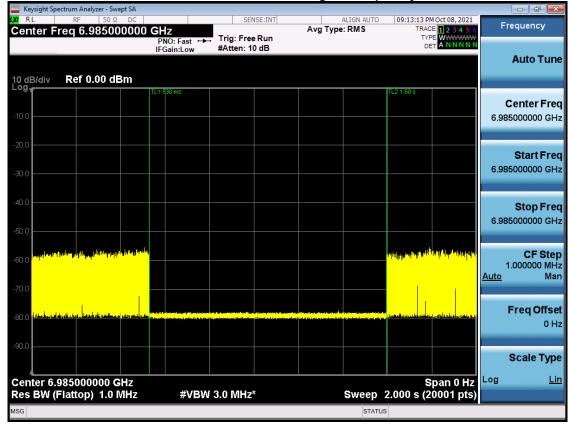




Keysight Spectrum Analyzer - Swept SA RL RF 50Ω DC Center Freq 6.985000000	SENSE	INDERIL SIGNAL FREQ		Frequency
0 dB/div Ref 0.00 dBm	PNO: Fast ↔ Trig: Free Ro IFGain:Low #Atten: 10 d		TYPE WWWWWW DET ANNNN	Auto Tun
00	475 m/s		TL2 1.55 s	Center Fre 6.985000000 GH
30.0				Start Fre 6.985000000 G⊢
50.0				Stop Fre 6.985000000 GH
		the design of the second state of the second s	na kanalayayay na biryan kinya kinya sa	CF Ste 1.000000 MH <u>Auto</u> Ma
			ana at , 19, 1 local 1, in the synthesis of a second state	Freq Offs 0 F
Center 6.985000000 GHz Res BW (Flattop) 1.0 MHz	#VBW 3.0 MHz*	Sweep	Span 0 Hz 2.000 s (20001 pts)	Scale Typ Log <u>L</u>
sg		STAT		

EUT Channel: CH207 Incumbent Signal Frequency: 6985 MHz

EUT Channel: CH207 Incumbent Signal Frequency: 7060 MHz



End of Test Report