



TEST REPORT

Applicant: AI MATCH INTELLIGENT TECHNOLOGY CO., LTD.
Address of Applicant: 4F, Bld 1, Shangpinjia Industrial Zone, No.1 Changsheng Road, Songgang Street, Nanhai District, Foshan,China
Manufacturer/Factory: AI MATCH INTELLIGENT TECHNOLOGY CO., LTD.
Address of Manufacturer: 4F, Bld 1, Shangpinjia Industrial Zone, No.1 Changsheng Road, Songgang Street, Nanhai District, Foshan,China
Product Name: 4G&WIFI Solar Router
Model No.: C&E-L8,U-L8,A-L8, G-L9,W3
Trade Mark: N/A
FCC ID: 2BEGK-CEL8
Applicable standards: 47 CRF Part 22H,47 CRF Part 2
Test Procedure:: ANSI C63.26:2015,ANSI/TIA-603-E-2016
KDB 971168 D01 Power Meas License Digital Systems v03r01
Date of Test: Jan.08, 2024-Feb.22, 2024
Date of report issued: Feb.22, 2024
Test Result : PASS *

Remark:

** In the configuration tested, the EUT complied with the standards specified above.*

The results shown in this test report refer only to the sample(s) tested , this test report cannot be reproduced, except in full without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By

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Report Revision History

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1 Test Summary

Test Item	Section in CFR 47	Result
Conducted RF Output	Part 2.1046 Part 22.913(a)	PASS
Peak to average power ratio(PAPR)	Part 2.1046, Part 22.913(a)	PASS
EIRP and ERP	Part 22.913(a)	PASS
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917(b)	PASS
Conducted spurious emissions	Part 2.1051 Part 22.917	PASS
band edge	Part 2.1051 Part 22.917	PASS
Radiated spurious emissions	Part 2.1053 Part 22.917	PASS
Frequency Stability	Part 2.1055(a)(1)(b) Part 22.255	PASS

Remark:

Pass: The EUT complies with the essential requirements in the standard.

1.1 Measurement Uncertainty

Test Item	Uncertainty Criterion	Measurement Uncertainty	Notes
Occupied Channel Bandwidth	±5%	2.38%	(1)
RF output power, conducted	±1.5dB	±0.63dB	(1)
Power Spectral Density, conducted	±3dB	±0.69dB	(1)
Unwanted Emissions, conducted	±3dB	±2.39dB	(1)
AC Power Line Conducted Emission	±6dB	± 3.27 dB	(1)
Radiated emissions Below 1GHz	±6dB	±3.82 dB	(1)
Radiated emissions Above 1GHz	±6dB	±4.30 dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

2 General Information

2.1 General Description of EUT

Product Name:	Solar power system
Model No.:	C&E-L8
Serial Models.:	U-L8,A-L8, G-L9,W3
Difference in series models	All the model are the same circuit and RF module, except the model names.
Hardware version:	N/A
Software version:	N/A
Sample(s) Status:	Engineer sample
Operation Band	Band 5
Operation Frequency:	Band 5: 824MHz-829MHz
Modulation technology:	QPSK ,16QAM
Power class	3
Temperature rang :	-30°C to +50°C
Antenna Type:	Integrated antenna
Antenna gain:	Band5:1.81dBi (Note: Antenna information is provided by applicant, Testing lab is not responsible for the accuracy of the information.)
Power supply:	DC 3.7V From Battery

Note: For more details, refer to the user's manual of the EUT.

2.2 Test frequency channel

LTE Band	Channel	Channel Bandwidth (MHz)	Frequency (MHz)
Band 5	Low	1.4	824.7
		3	825.5
		5	826.5
		10	829.0
	Middle	1.4/3/5/10	836.5
	High	1.4	848.3
		3	847.5
		5	846.5
		10	844.0

2.3 Test mode

Test Mode	Test Modes Description
Mode 1	QPSK modulation
Mode 2	16QAM modulation

2.4 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

Description of Support Units

No.	Description	Manufacturer	Model	Serial Number
1	/	/	/	/

2.5 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Voltage	TN	Ambient
	VL	3.33V
	VN	3.7V
	VH	4.07V

NOTE: VL=lower extreme test voltage VN=nominal voltage

VH=upper extreme test voltage TN=normal temperature

2.6 Test Facility

Test laboratory:	Shenzhen ETR Standard Technology Co., Ltd.
Laboratory location:	No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
CNAS Registration No.:	CNAS 11864
A2LA Certificate Number:	6640.01
FCC Designation Number:	CN1326
FCC Test Firm Registration:	183064
IC Company Number:	28440

2.7 Environmental conditions

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

2.8 Measurement Uncertainty

Test Item	Uncertainty Criterion	Measurement Uncertainty	Notes
Occupied Channel Bandwidth	±5%	2.38%	(1)
RF output power, conducted	±1.5dB	±0.63dB	(1)
Power Spectral Density, conducted	±3dB	±0.69dB	(1)
Unwanted Emissions, conducted	±3dB	±2.39dB	(1)
AC Power Line Conducted Emission	±6dB	± 3.27 dB	(1)
Radiated emissions Below 1GHz	±6dB	±3.82 dB	(1)
Radiated emissions Above 1GHz	±6dB	±4.30 dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

3 Test Instruments list

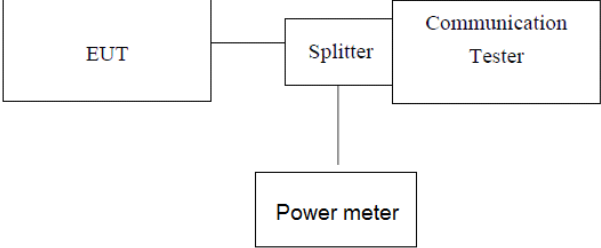
Item	Equipment name	Manufacturer	Model	Serial No.	Firmware Version	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESC17	100605	4.42 SP3	2023.3.02	2024.3.01
2	EMI Test Receiver	Rohde&schwarz	ESC13	102696	4.42 SP3	2023.3.02	2024.3.01
3	Loop Antenna	schwarabeck	FMZB 1519 B	FMZB 1519 B	/	2022.3.11	2024.3.10
4	Broadband antenna	schwarabeck	VULB9168	1064	/	2022.3.11	2024.3.10
5	Horn antenna	schwarabeck	BBHA9120D	9120D-1145	/	2022.3.11	2024.3.10
6	amplifier	EMtrace	RP01A	50117	/	2023.3.02	2024.3.01
7	Artificial power network	schwarabeck	NSLK8127	8127483	/	2023.3.02	2024.3.01
8	Artificial power network	ETS	3186/2NM	1132	/	2023.3.02	2024.3.01
9	10dB attenuator	HUBER+SUHNER	10dB	/	/	2023.3.02	2024.3.01
10	amplifier	Space-Dtronics	EWLAN0118G-P40	19113001	/	2023.3.02	2024.3.01
11	Filter	Xingbo	XLBLQ-GTA19	210410-3-1	/	2023.3.06	2024.3.05
12	Filter	Xin bo	XLBLQ-GTA29	210410-3-2	/	2023.3.06	2024.3.05
14	Automated filter bank	Tonscend	JS0806-F	CTA-404	/	2023.3.06	2024.3.05
15	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	A.17.05	2023.3.02	2024.3.01
16	Power detector box	MWRFtest	MW100-PSB	MW201020JY T	/	2023.10.18	2024.10.17
17	Amplifier	SKET	LNPA_1840-50	SK2019040302	/	2023.3.02	2024.3.01
18	Horn antenna	schwarabeck	BBHA 9170	946	/	2022.3.11	2024.3.10
19	Vector Signal generator	Agilent	N5182A	MY49060455	A.01.86	2023.10.18	2024.10.17
20	Power detector	MWRFtest	MW100-PSB	MW201020JY T	/	2023.10.18	2024.10.17
21	Comprehensive test instrument	Rohde&schwarz	cmw500	149155	V3.7.10	2023.10.18	2024.10.17
22	Spectrum analyzer	Rohde&schwarz	FSU40	1166.1660K43	4.71 SP5	2023.10.18	2024.10.17

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

Software Name	Manufacturer	Model	Version
RF test system	MWRFtest	MTS 8310	V4.0
EMI Test soft	Farad	EZ-EMC	Ver.EMC-CON 3A1.1
EMI Test soft	Farad	EZ-EMC	Ver.FA-03A2 RE

4 Test results and Measurement Data

4.1 RF Output Power & EIRP:

Limit:	For FCC Part 22.913(a)(2): The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.
Test setup:	 <p style="text-align: center;"><i>Note: Measurement setup for testing on Antenna connector</i></p>
Test procedure:	<ol style="list-style-type: none"> 1. The transmitter output port was connected to base station. 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement. 3. Set EUT at maximum power through base station. 4. Select lowest, middle, and highest channels for each band and different modulation. 5. Measure the maximum burst average power
Test results:	Pass

Test data:

$$\text{ERP} = \text{Average Power (dBm)} + \text{ANT Gain(dBi)} - \text{Correction (dB)}$$

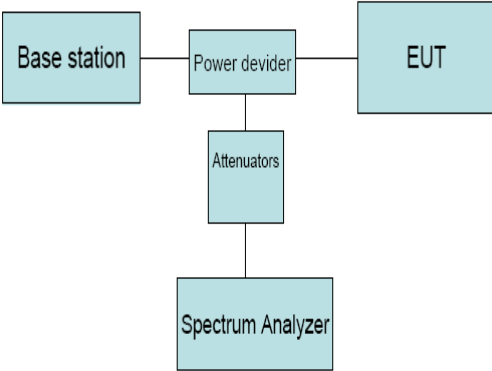
LTE Band 5										
Test Bandwidth	RB Size/Offset	Frequency (MHz)	Average Power (dBm)		ANT Gain (dBi)	Correction (dB)	ERP(dBm)		Limit (dBm)	
			QPSK	16QAM			QPSK	16QA		
1.4MHz	1 RB#0	824.7	23.56	22.26	1.81	2.15	23.22	21.92	38.4	
		836.5	23.47	22.45	1.81	2.15	23.13	22.11	38.4	
		848.3	23.40	22.16	1.81	2.15	23.06	21.82	38.4	
	1 RB#3	824.7	23.36	22.28	1.81	2.15	23.02	21.94	38.4	
		836.5	23.31	22.77	1.81	2.15	22.97	22.43	38.4	
		848.3	23.32	22.45	1.81	2.15	22.98	22.11	38.4	
	1 RB#5	824.7	23.24	22.52	1.81	2.15	22.90	22.18	38.4	
		836.5	23.32	22.19	1.81	2.15	22.98	21.85	38.4	
		848.3	23.26	22.34	1.81	2.15	22.92	22.00	38.4	
	3 RB#0	824.7	23.37	22.32	1.81	2.15	23.03	21.98	38.4	
		836.5	23.39	22.28	1.81	2.15	23.05	21.94	38.4	
		848.3	23.33	22.44	1.81	2.15	22.99	22.10	38.4	
	3 RB#2	824.7	23.38	22.55	1.81	2.15	23.04	22.21	38.4	
		836.5	23.37	22.42	1.81	2.15	23.03	22.08	38.4	
		848.3	23.31	22.52	1.81	2.15	22.97	22.18	38.4	
	3 RB#3	824.7	23.21	22.36	1.81	2.15	22.87	22.02	38.4	
		836.5	23.30	22.31	1.81	2.15	22.96	21.97	38.4	
		848.3	23.31	22.55	1.81	2.15	22.97	22.21	38.4	
	6%RB#0	824.7	23.34	22.43	1.81	2.15	23.00	22.09	38.4	
		836.5	23.35	22.44	1.81	2.15	23.01	22.10	38.4	
		848.3	23.31	22.32	1.81	2.15	22.97	21.98	38.4	
	3MHz	1 RB#0	825.5	23.38	22.51	1.81	2.15	23.04	22.17	38.4
			836.5	23.24	22.26	1.81	2.15	22.90	21.92	38.4
			847.5	23.22	22.19	1.81	2.15	22.88	21.85	38.4
1 RB#7		825.5	23.21	22.32	1.81	2.15	22.87	21.98	38.4	
		836.5	23.64	22.27	1.81	2.15	23.30	21.93	38.4	
		847.5	23.43	22.38	1.81	2.15	23.09	22.04	38.4	
1 RB#14		825.5	23.21	22.42	1.81	2.15	22.87	22.08	38.4	
		836.5	23.65	22.44	1.81	2.15	23.31	22.10	38.4	
		847.5	22.87	22.04	1.81	2.15	22.53	21.70	38.4	
8 RB#0		825.5	23.52	22.19	1.81	2.15	23.18	21.85	38.4	
		836.5	23.48	22.41	1.81	2.15	23.14	22.07	38.4	
		847.5	23.36	22.33	1.81	2.15	23.02	21.99	38.4	
8 RB#4		825.5	22.87	21.69	1.81	2.15	22.53	21.35	38.4	

		836.5	23.15	21.94	1.81	2.15	22.81	21.60	38.4	
		847.5	23.32	22.17	1.81	2.15	22.98	21.83	38.4	
	8 RB#7	825.5	23.18	22.44	1.81	2.15	22.84	22.10	38.4	
		836.5	22.89	21.25	1.81	2.15	22.55	20.91	38.4	
		847.5	22.78	21.71	1.81	2.15	22.44	21.37	38.4	
	15%RB#0	825.5	23.16	22.09	1.81	2.15	22.82	21.75	38.4	
		836.5	23.31	22.17	1.81	2.15	22.97	21.83	38.4	
		847.5	23.58	22.23	1.81	2.15	23.24	21.89	38.4	
	5MHz	1 RB#0	826.5	22.94	21.65	1.81	2.15	22.60	21.31	38.4
			836.5	23.43	22.46	1.81	2.15	23.09	22.12	38.4
846.5			23.17	21.89	1.81	2.15	22.83	21.55	38.4	
1 RB#13		826.5	23.44	22.31	1.81	2.15	23.10	21.97	38.4	
		836.5	23.26	22.67	1.81	2.15	22.92	22.33	38.4	
		846.5	23.14	22.45	1.81	2.15	22.80	22.11	38.4	
1 RB#24		826.5	23.36	22.26	1.81	2.15	23.02	21.92	38.4	
		836.5	23.23	22.33	1.81	2.15	22.89	21.99	38.4	
		846.5	23.42	22.17	1.81	2.15	23.08	21.83	38.4	
12 RB#0		826.5	22.87	21.68	1.81	2.15	22.53	21.34	38.4	
		836.5	22.89	22.01	1.81	2.15	22.55	21.67	38.4	
		846.5	23.15	21.88	1.81	2.15	22.81	21.54	38.4	
12 RB #6		826.5	23.31	22.06	1.81	2.15	22.97	21.72	38.4	
		836.5	22.88	21.49	1.81	2.15	22.54	21.15	38.4	
		846.5	22.91	21.54	1.81	2.15	22.57	21.20	38.4	
12 RB#13		826.5	23.14	21.77	1.81	2.15	22.80	21.43	38.4	
		836.5	23.28	22.04	1.81	2.15	22.94	21.70	38.4	
		846.5	23.31	22.31	1.81	2.15	22.97	21.97	38.4	
25 RB#0		826.5	23.25	22.16	1.81	2.15	22.91	21.82	38.4	
		836.5	23.34	22.21	1.81	2.15	23.00	21.87	38.4	
		846.5	22.99	21.76	1.81	2.15	22.65	21.42	38.4	
10MHz		1 RB#0	829.0	23.06	21.84	1.81	2.15	22.72	21.50	38.4
			836.5	23.19	22.31	1.81	2.15	22.85	21.97	38.4
			844.0	23.24	22.44	1.81	2.15	22.90	22.10	38.4
	1 RB#25	829.0	23.21	21.95	1.81	2.15	22.87	21.61	38.4	
		836.5	23.11	21.88	1.81	2.15	22.77	21.54	38.4	
		844.0	23.42	21.69	1.81	2.15	23.08	21.35	38.4	
	1 RB#49	829.0	23.22	22.13	1.81	2.15	22.88	21.79	38.4	
		836.5	23.21	22.08	1.81	2.15	22.87	21.74	38.4	
		844.0	23.18	22.12	1.81	2.15	22.84	21.78	38.4	
	25 RB#0	829.0	23.36	22.19	1.81	2.15	23.02	21.85	38.4	
		836.5	23.41	22.22	1.81	2.15	23.07	21.88	38.4	
		844.0	23.24	22.31	1.81	2.15	22.90	21.97	38.4	

	25 RB#13	829.0	23.31	22.15	1.81	2.15	22.97	21.81	38.4
		836.5	22.86	21.94	1.81	2.15	22.52	21.60	38.4
		844.0	22.79	21.89	1.81	2.15	22.45	21.55	38.4
	25 RB#25	829.0	23.06	21.87	1.81	2.15	22.72	21.53	38.4
		836.5	23.11	21.79	1.81	2.15	22.77	21.45	38.4
		844.0	22.89	21.66	1.81	2.15	22.55	21.32	38.4
	50 RB#0	829.0	23.07	21.97	1.81	2.15	22.73	21.63	38.4
		836.5	22.93	21.75	1.81	2.15	22.59	21.41	38.4
		844.0	22.88	21.89	1.81	2.15	22.54	21.55	38.4

Note: all modes of RB configurations have been tested, and only worst configuration data listed.

4.2 99% & -26 dB Occupied Bandwidth

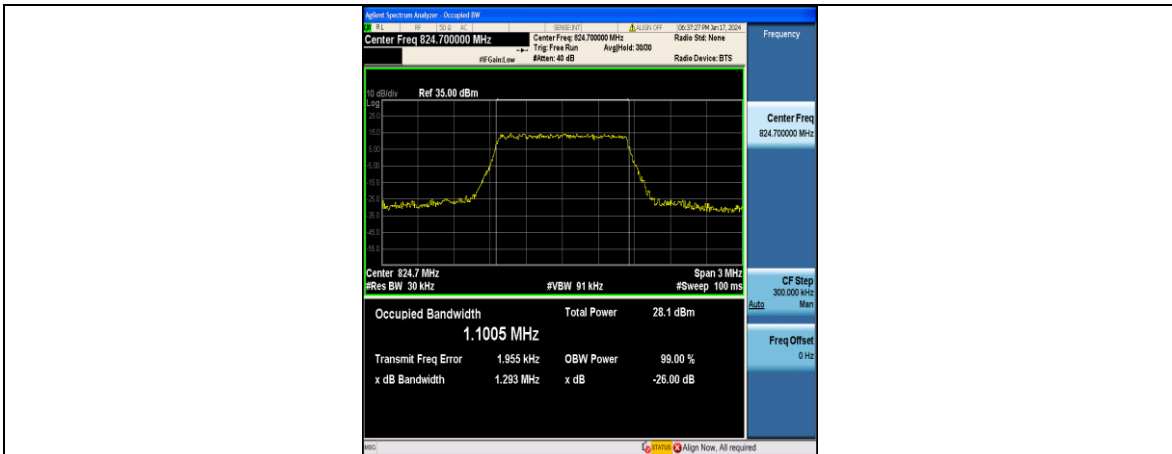
Limit:	N/A
Test procedure	<ol style="list-style-type: none"> 1. The EUT was directly connected to the spectrum analyzer and Base station via power splitter as show in the block diagram 2. RBW was set to about 1% of emission BW, VBW= 3 times RBW. 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. 4. The low, middle and the high channels are selected to perform tests respectively.
Test setup:	 <pre> graph TD BS[Base station] --- PD[Power divider] PD --- EUT[EUT] PD --- ATT[Attenuators] ATT --- SA[Spectrum Analyzer] </pre>
Test results:	Pass

Measurement data:

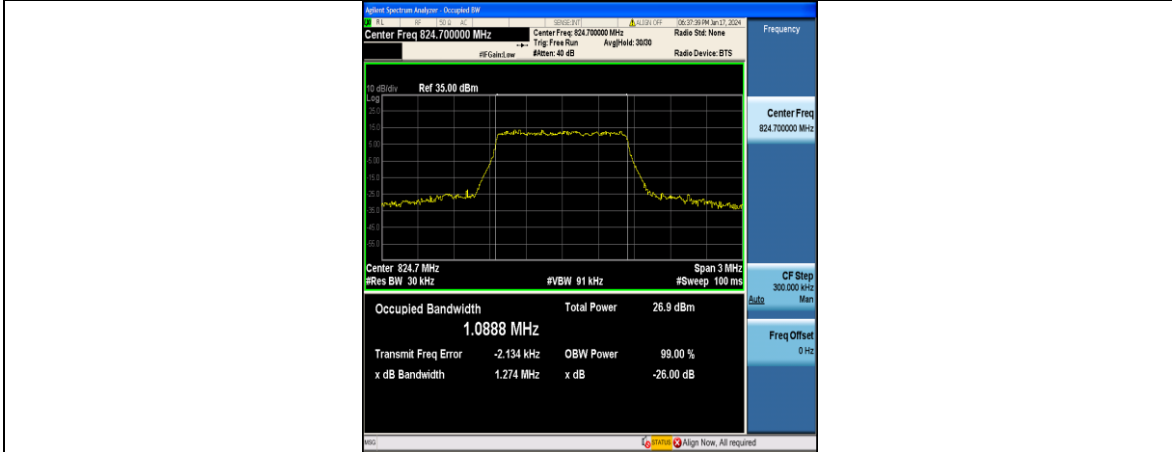
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.1005	1.293	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0888	1.274	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0938	1.305	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0987	1.297	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0953	1.309	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.1015	1.290	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6989	2.961	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6917	2.964	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6984	2.974	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6928	2.972	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7046	2.989	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6918	2.959	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4901	4.981	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5028	5.015	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5030	5.009	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4974	4.965	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5027	5.011	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4970	4.983	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9819	9.953	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9731	9.860	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9745	9.912	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9617	9.858	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9645	9.920	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9703	9.786	PASS

Remark: All modes of RB configurations have been tested, and only worst configuration data listed.

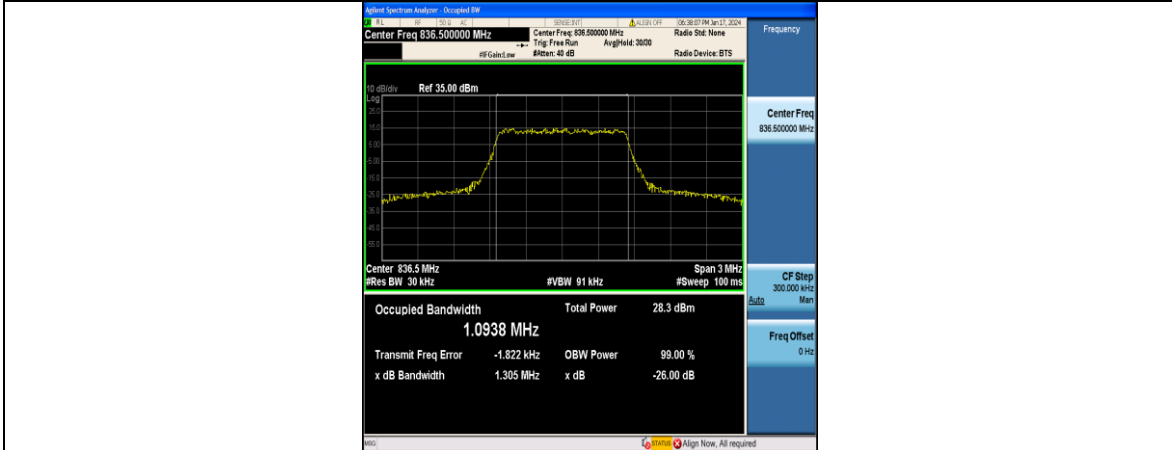
Test plots:



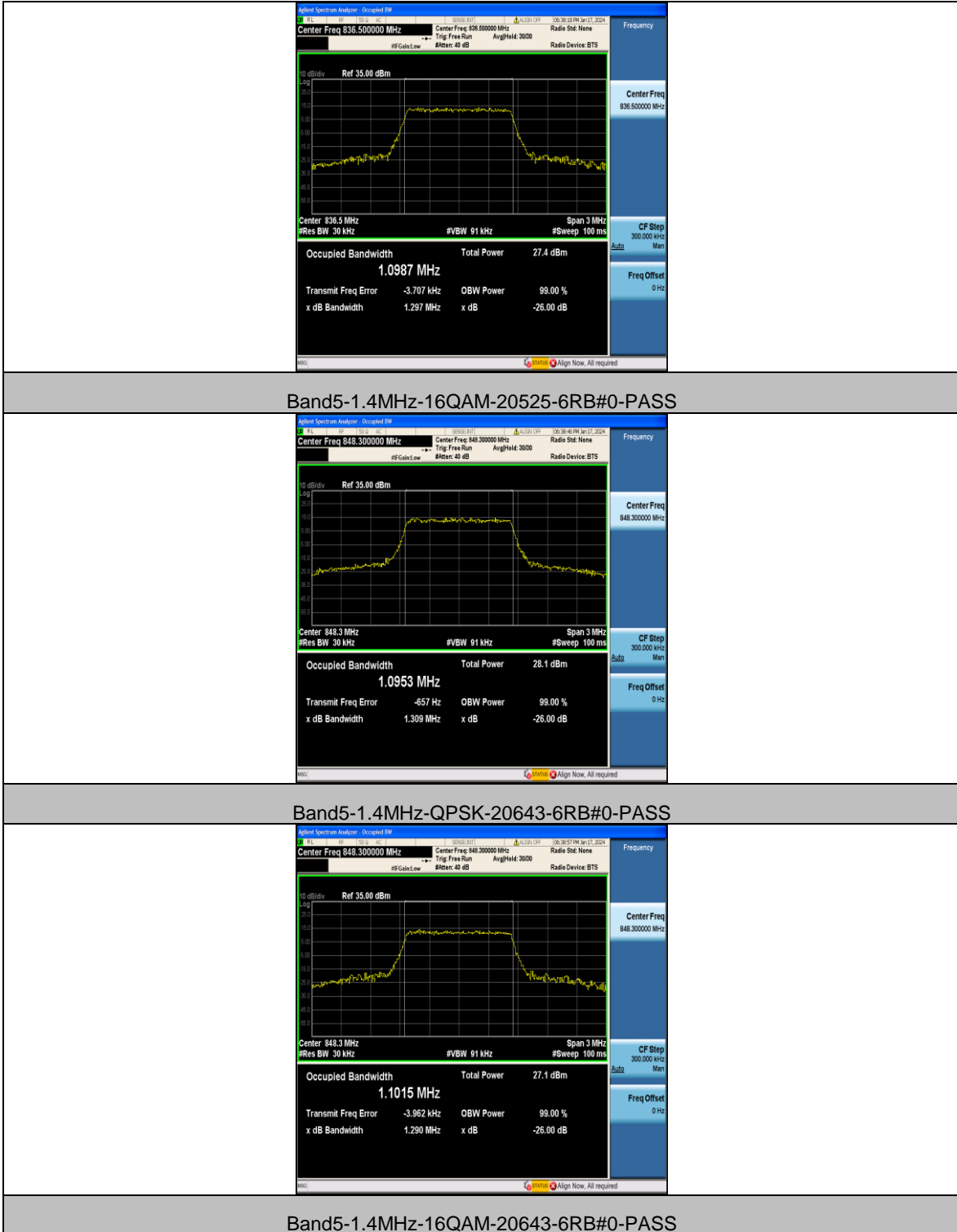
Band5-1.4MHz-QPSK-20407-6RB#0-PASS



Band5-1.4MHz-16QAM-20407-6RB#0-PASS



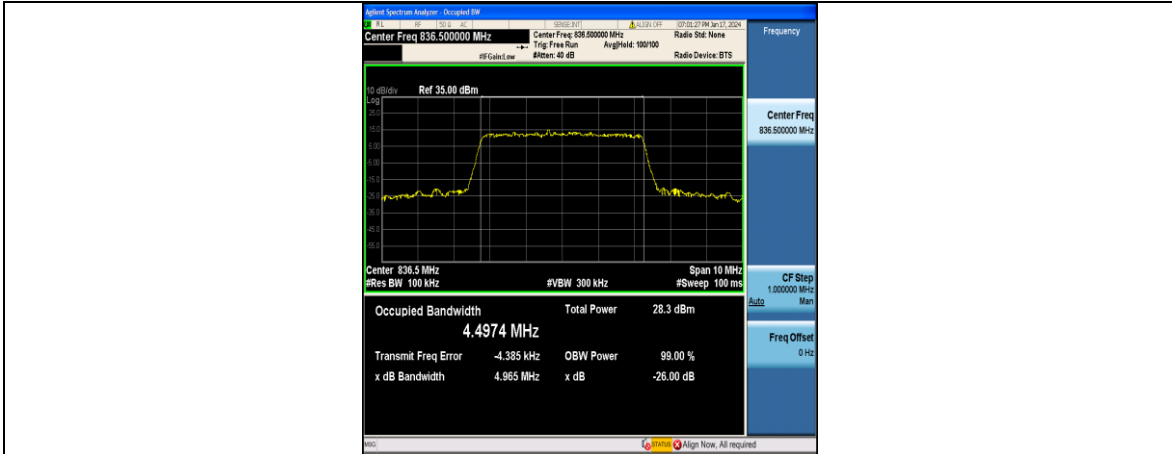
Band5-1.4MHz-QPSK-20525-6RB#0-PASS



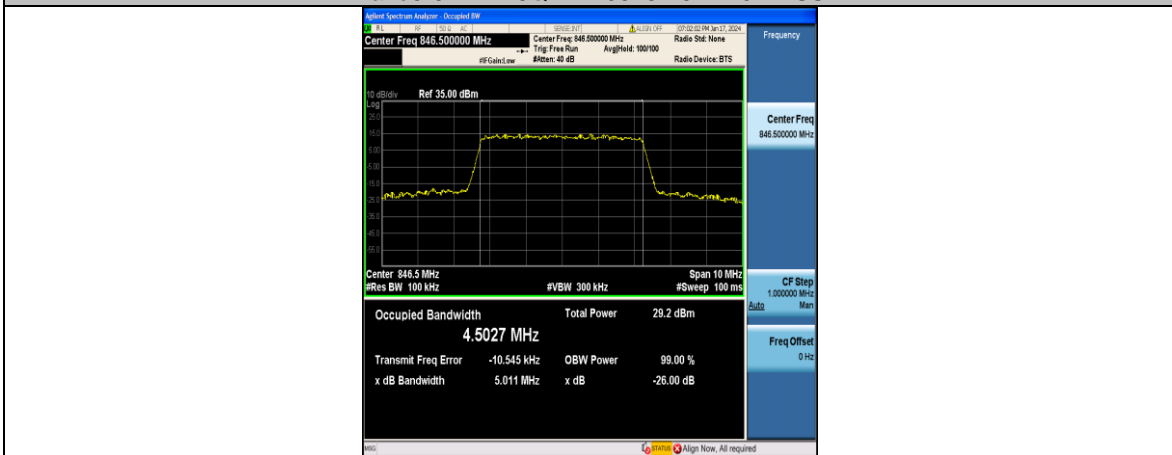




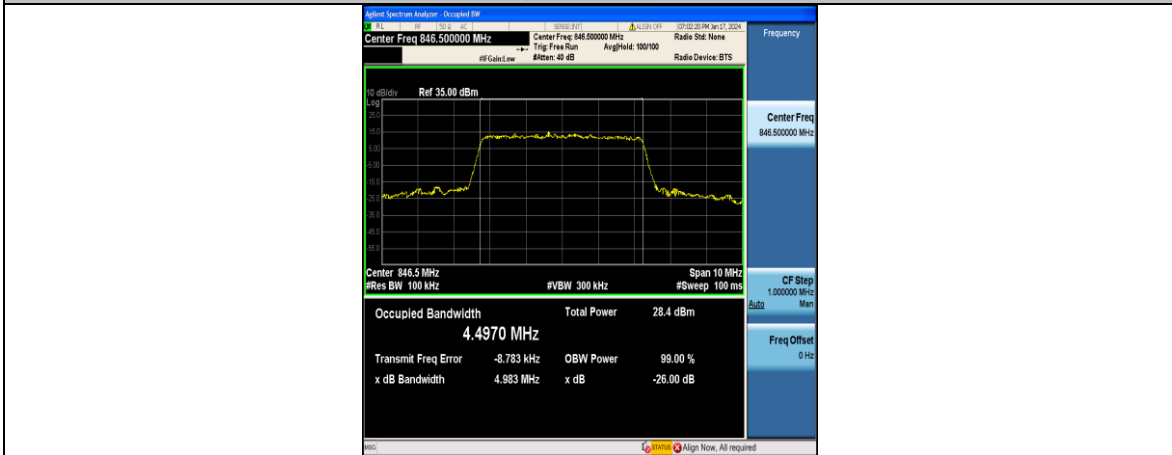




Band5-5MHz-16QAM-20525-25RB#0-PASS

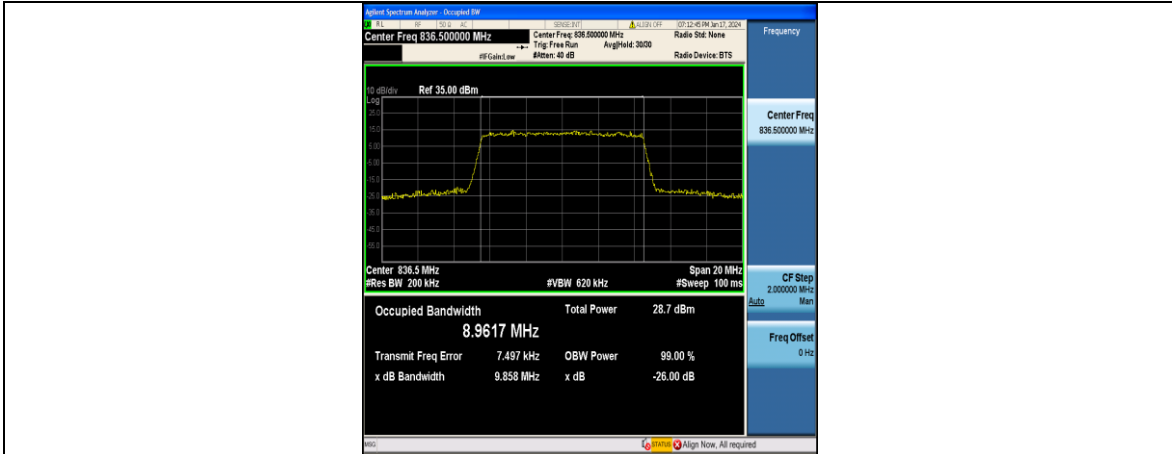


Band5-5MHz-QPSK-20625-25RB#0-PASS



Band5-5MHz-16QAM-20625-25RB#0-PASS

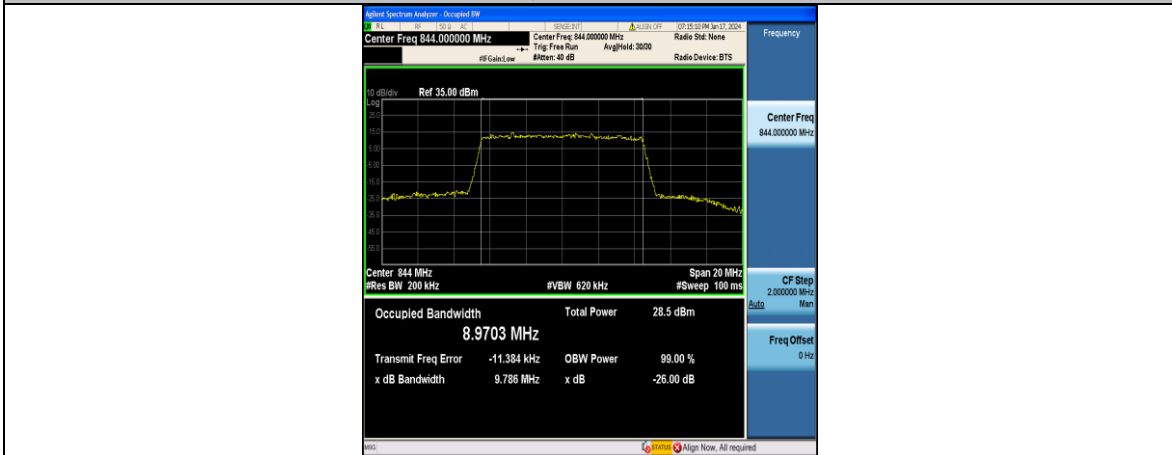




Band5-10MHz-16QAM-20525-50RB#0-PASS

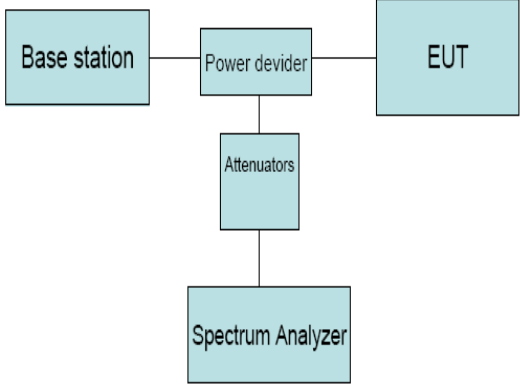


Band5-10MHz-QPSK-20600-50RB#0-PASS



Band5-10MHz-16QAM-20600-50RB#0-PASS

4.3 Peak to average power ratio (PAPR)

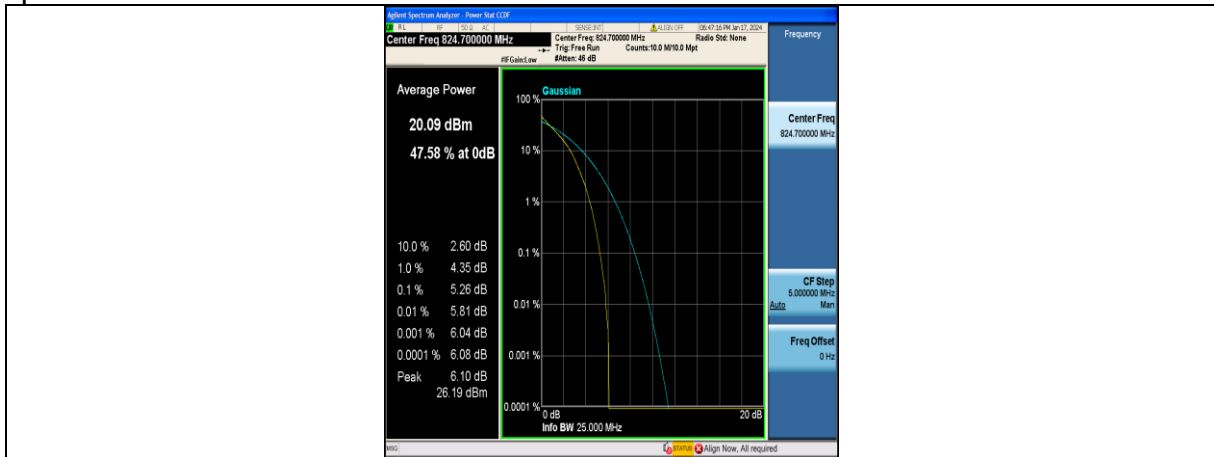
Limit:	The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.
Test setup:	 <pre> graph LR BS[Base station] --- PD[Power divider] PD --- EUT[EUT] PD --- ATT[Attenuators] ATT --- SA[Spectrum Analyzer] </pre>
Test procedure:	<ol style="list-style-type: none"> 1. The signal analyzer' s CCDF measurement profile is enabled 2. Frequency = carrier center frequency 3. Measurement BW > Emission bandwidth of signal 4. The signal analyzer was set to collect one million samples to generate the CCDF curve 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals(>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal " RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the " on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power
Test results:	Pass

Test data

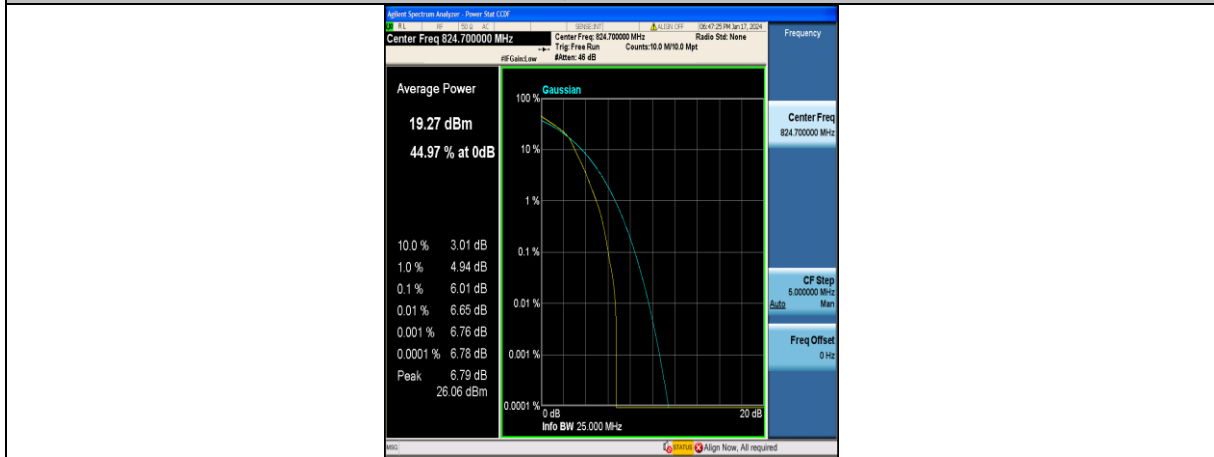
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	5.26	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.01	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	4.62	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.51	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.20	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.08	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.21	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.00	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	4.57	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.51	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.25	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.22	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.13	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	5.87	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.60	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.47	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.47	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.33	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	4.87	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.76	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.58	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.53	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.76	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.65	13	PASS

Remark: All modes of RB configurations have been tested, and only worst configuration data listed.

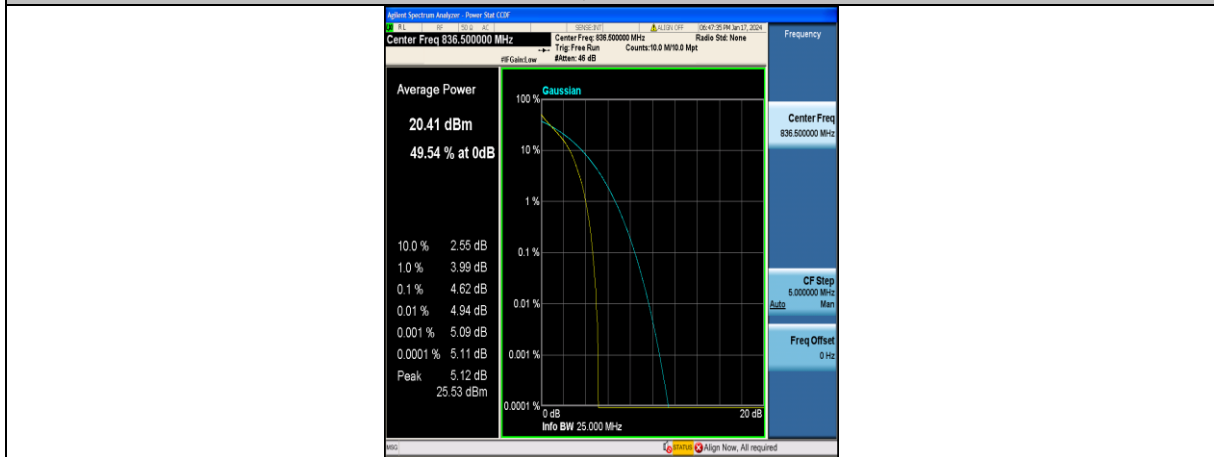
Test plots:



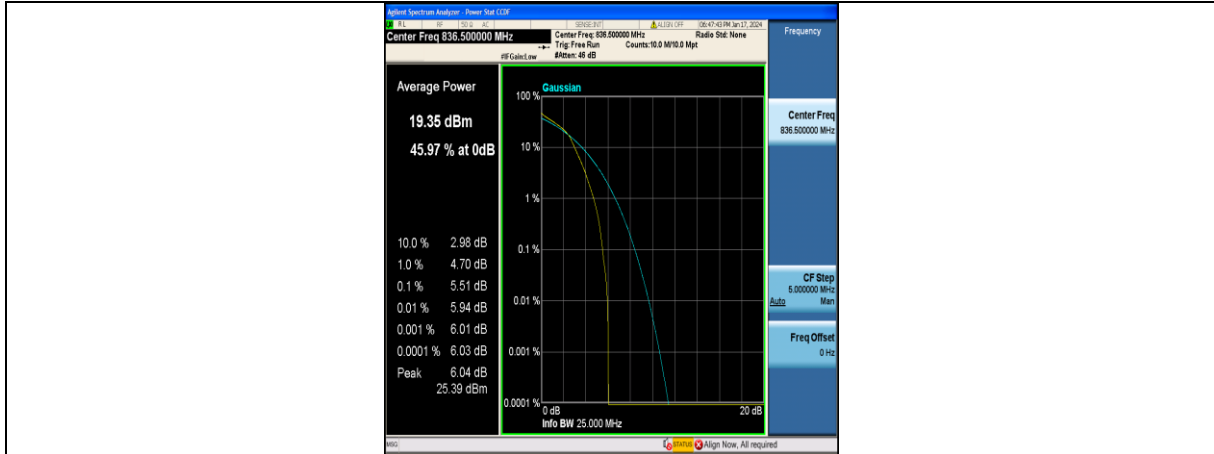
Band5-1.4MHz-QPSK-20407-6RB#0-PASS



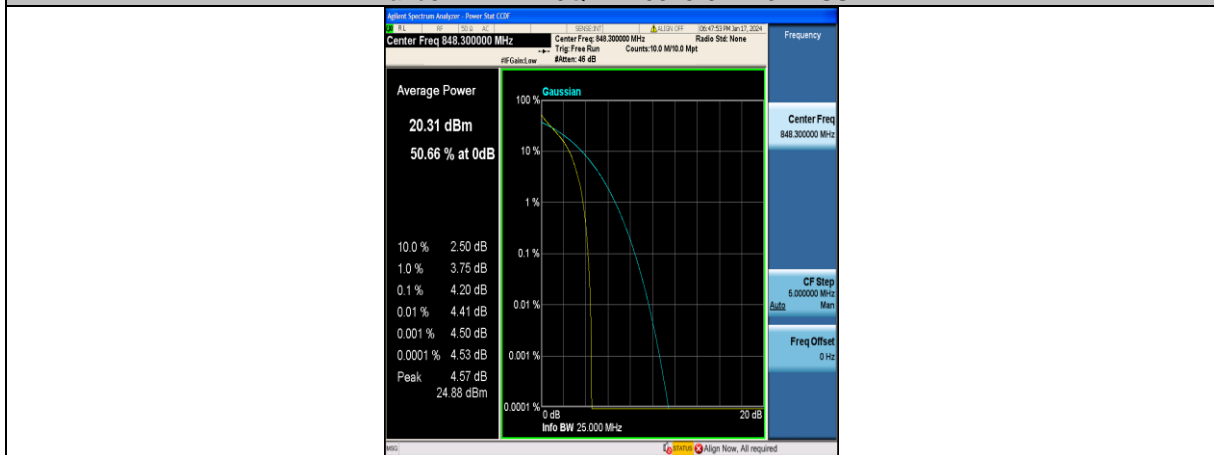
Band5-1.4MHz-16QAM-20407-6RB#0-PASS



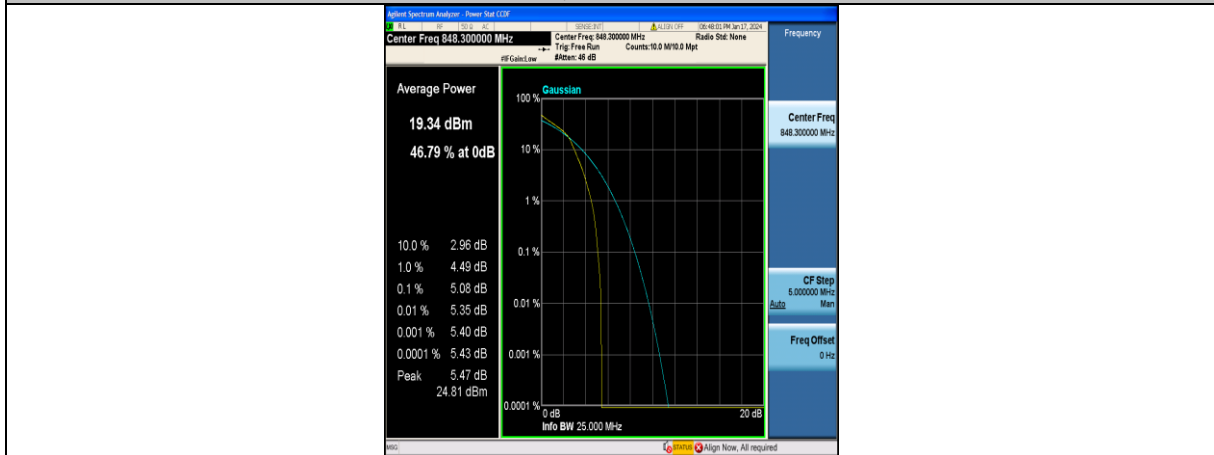
Band5-1.4MHz-QPSK-20525-6RB#0-PASS



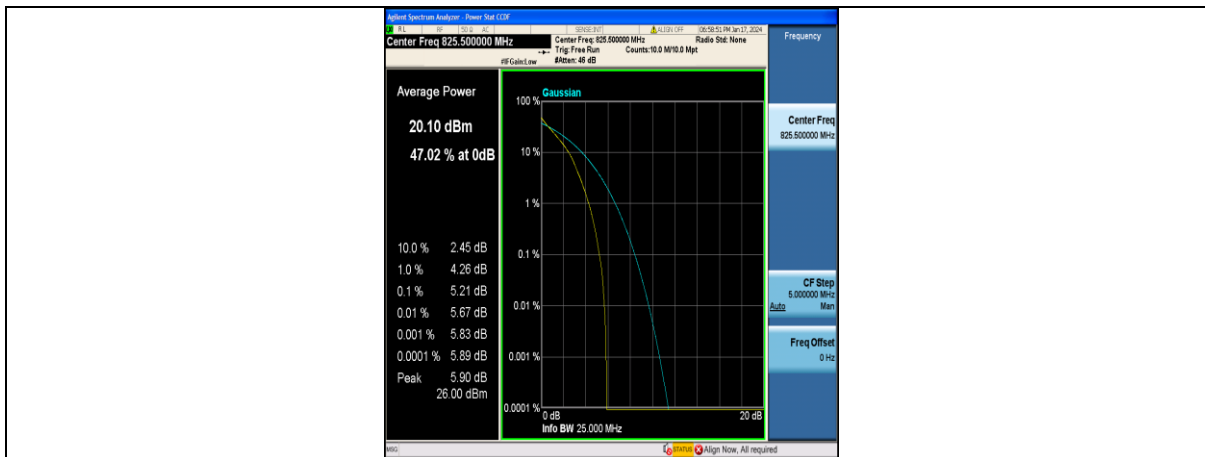
Band5-1.4MHz-16QAM-20525-6RB#0-PASS



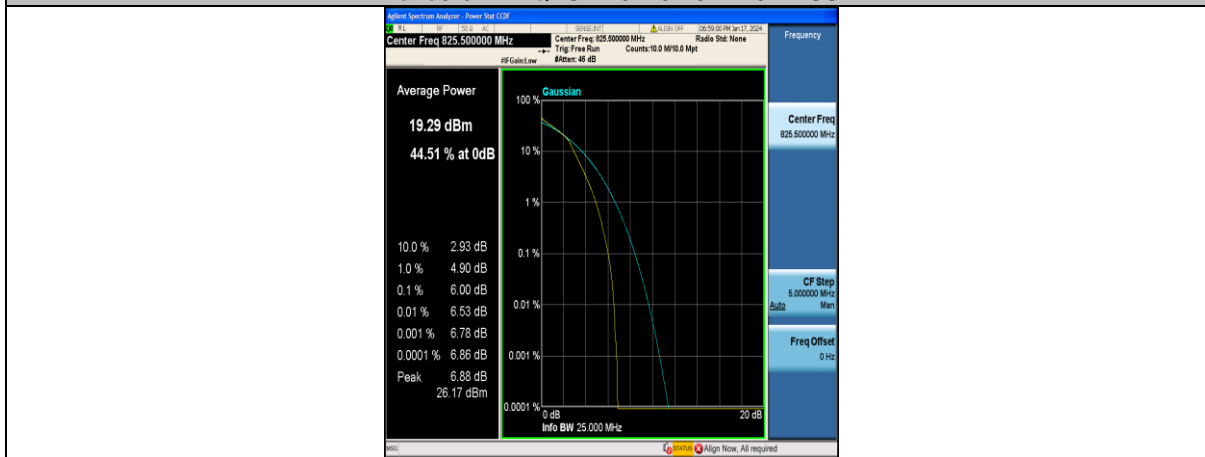
Band5-1.4MHz-QPSK-20643-6RB#0-PASS



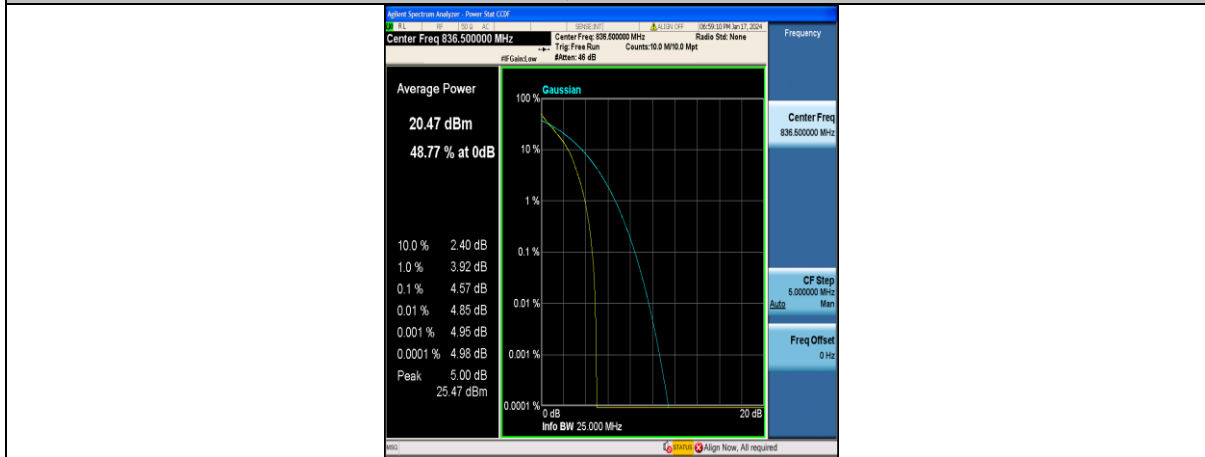
Band5-1.4MHz-16QAM-20643-6RB#0-PASS



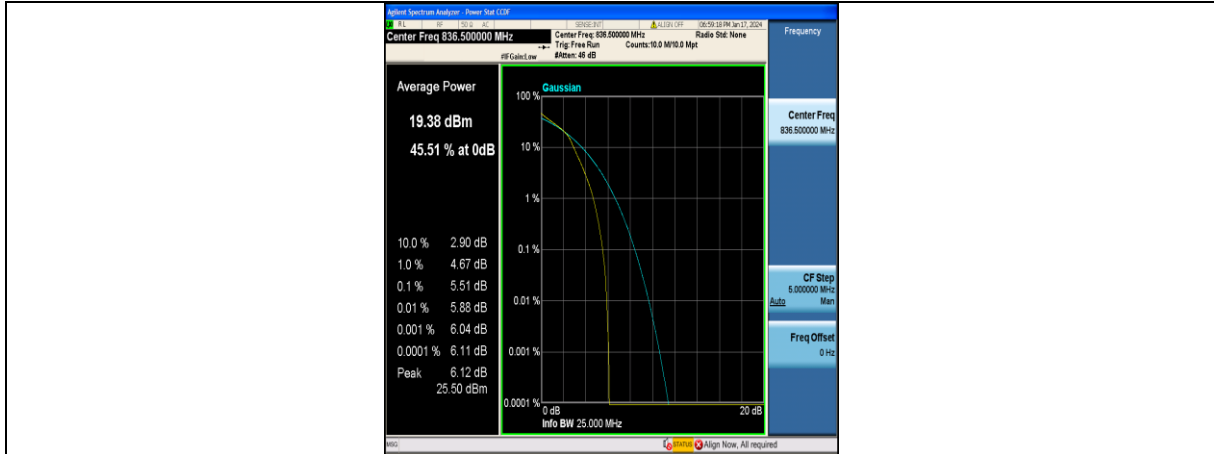
Band5-3MHz-QPSK-20415-15RB#0-PASS



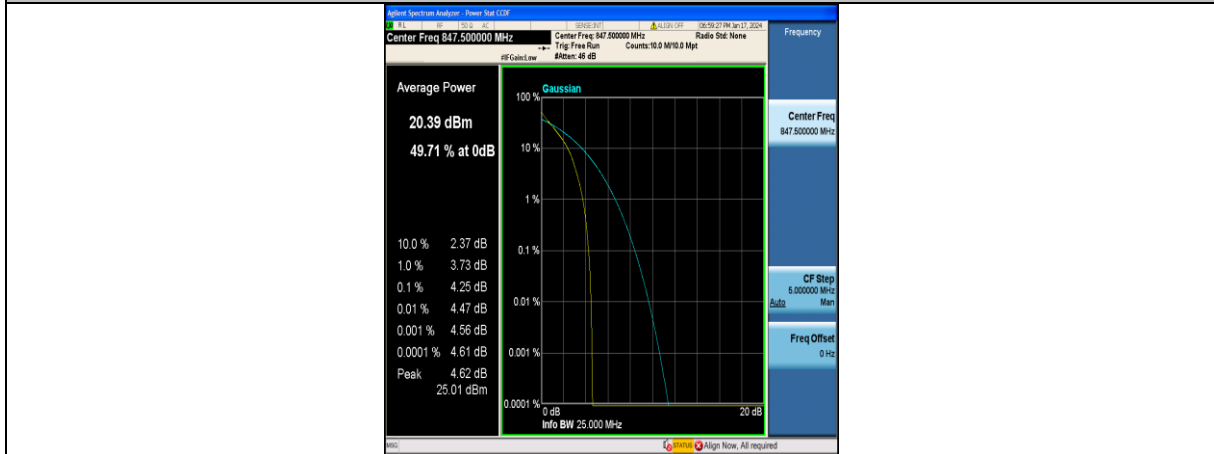
Band5-3MHz-16QAM-20415-15RB#0-PASS



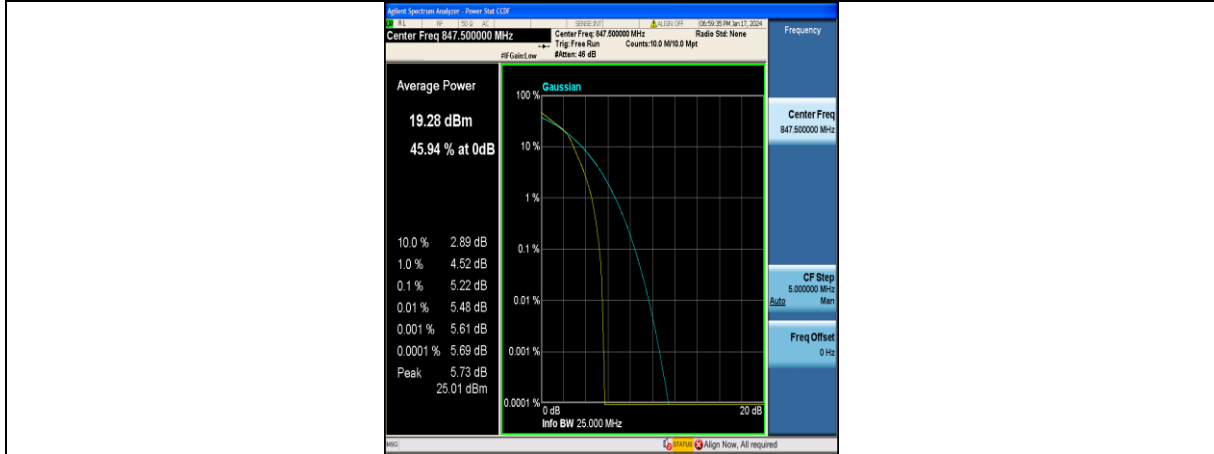
Band5-3MHz-QPSK-20525-15RB#0-PASS



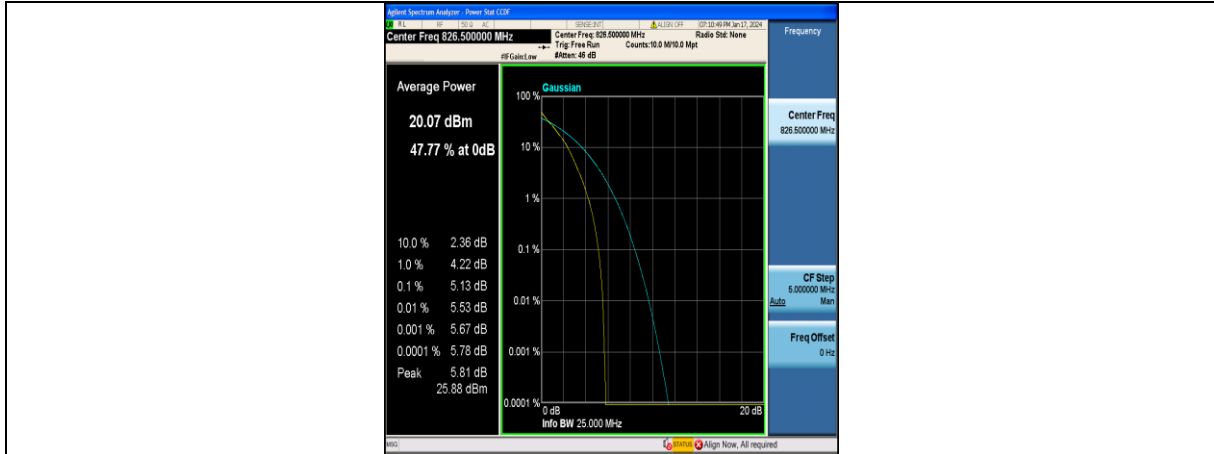
Band5-3MHz-16QAM-20525-15RB#0-PASS



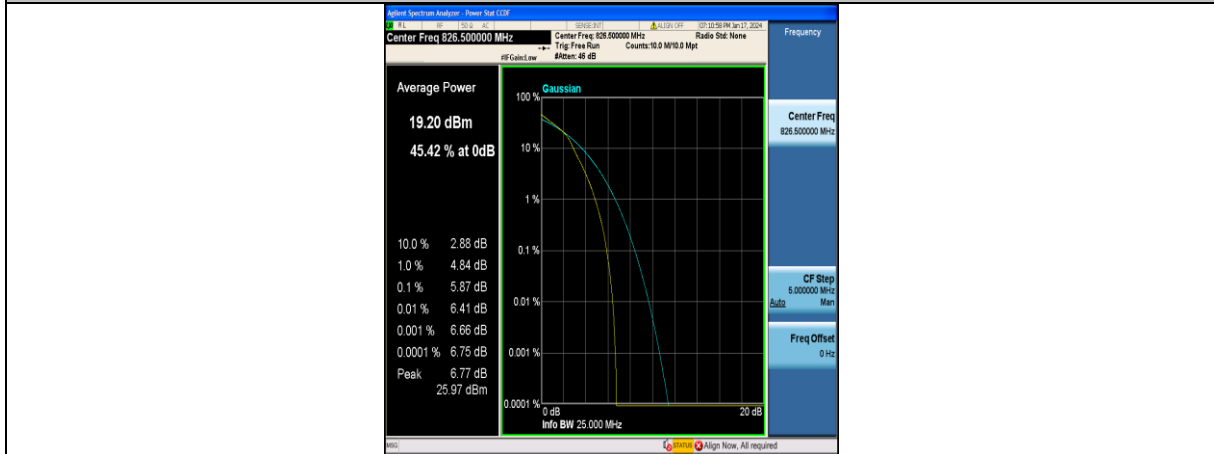
Band5-3MHz-QPSK-20635-15RB#0-PASS



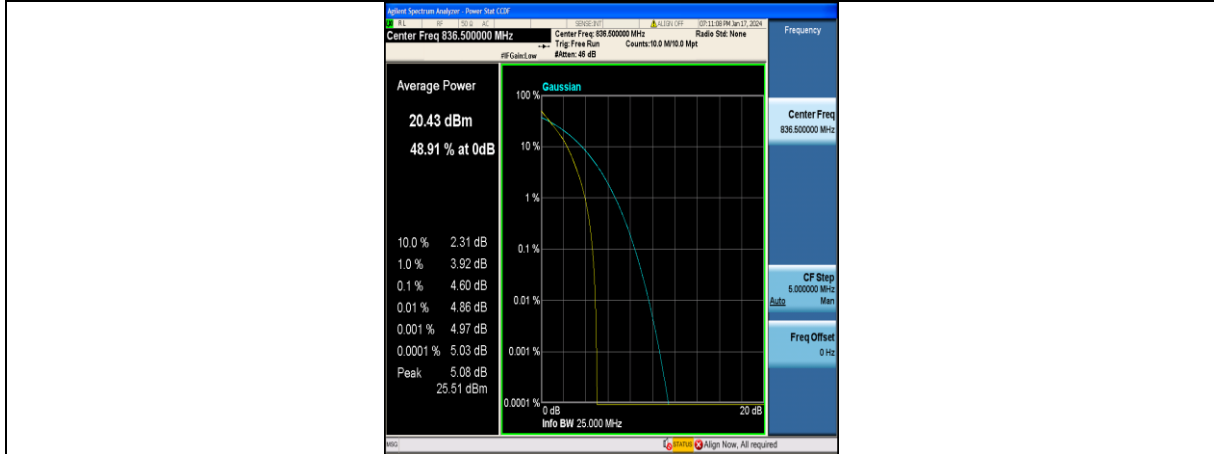
Band5-3MHz-16QAM-20635-15RB#0-PASS



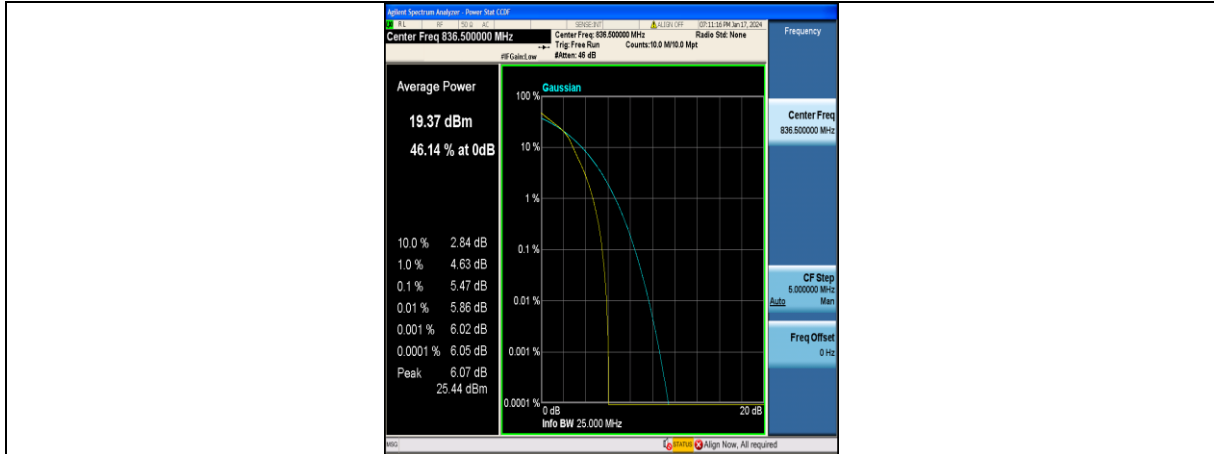
Band5-5MHz-QPSK-20425-25RB#0-PASS



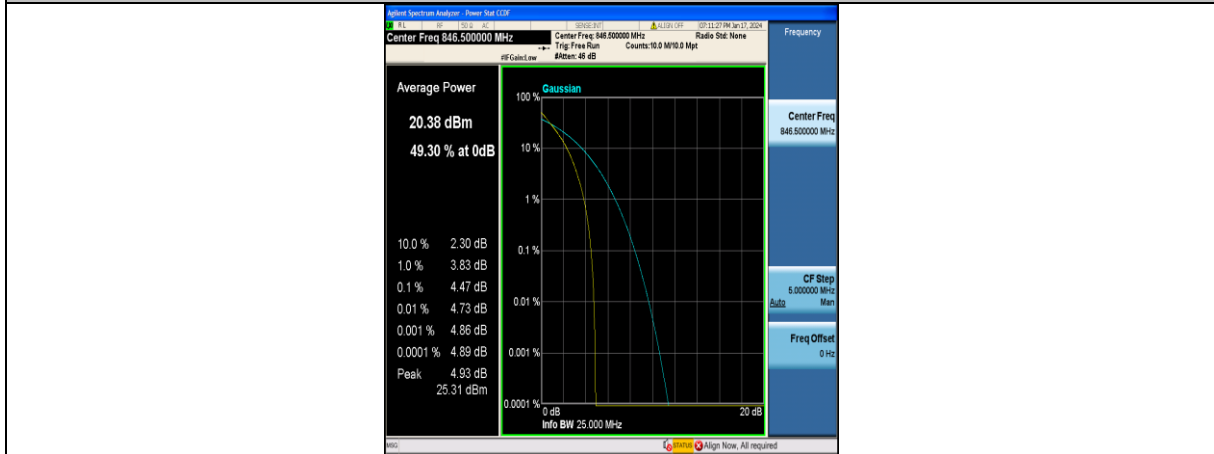
Band5-5MHz-16QAM-20425-25RB#0-PASS



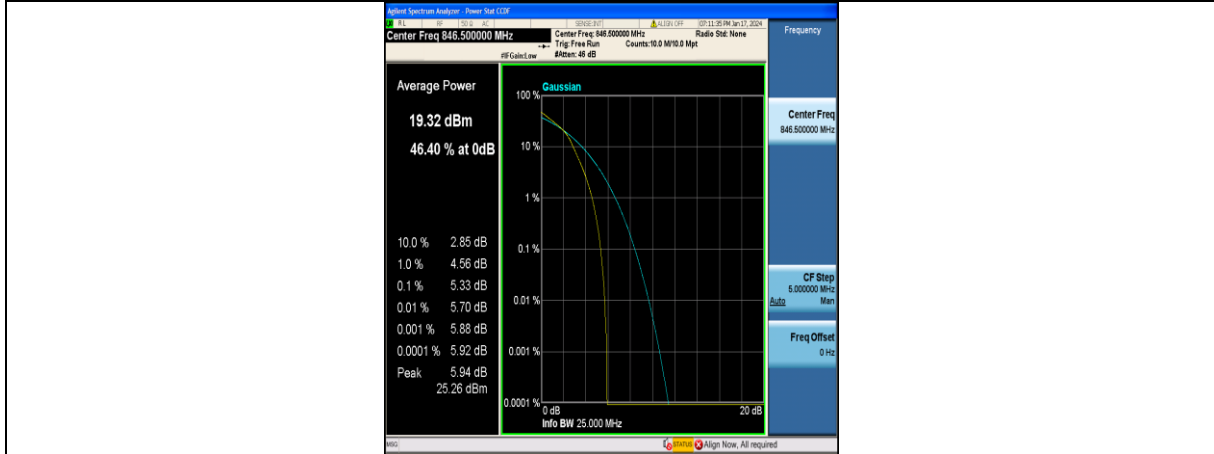
Band5-5MHz-QPSK-20525-25RB#0-PASS



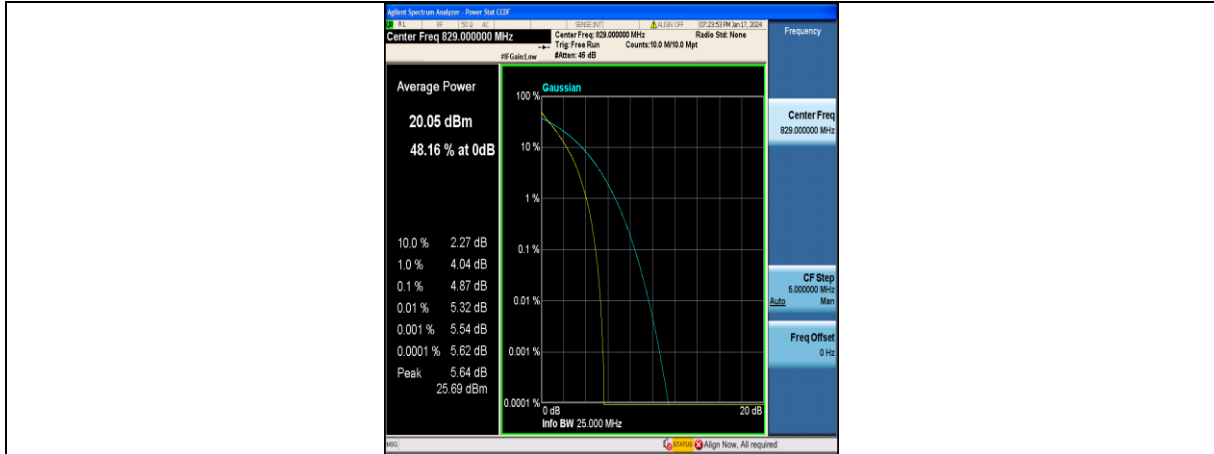
Band5-5MHz-16QAM-20525-25RB#0-PASS



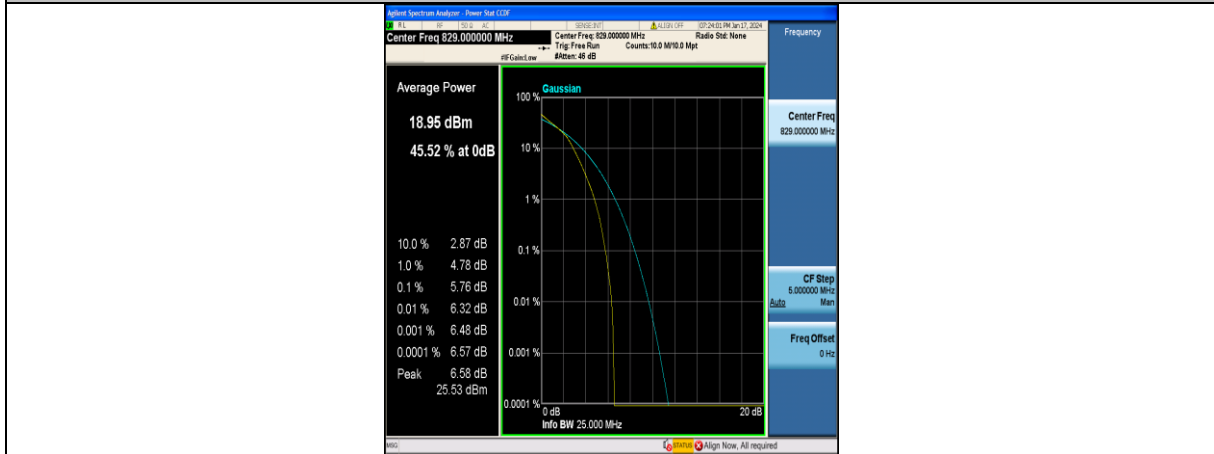
Band5-5MHz-QPSK-20625-25RB#0-PASS



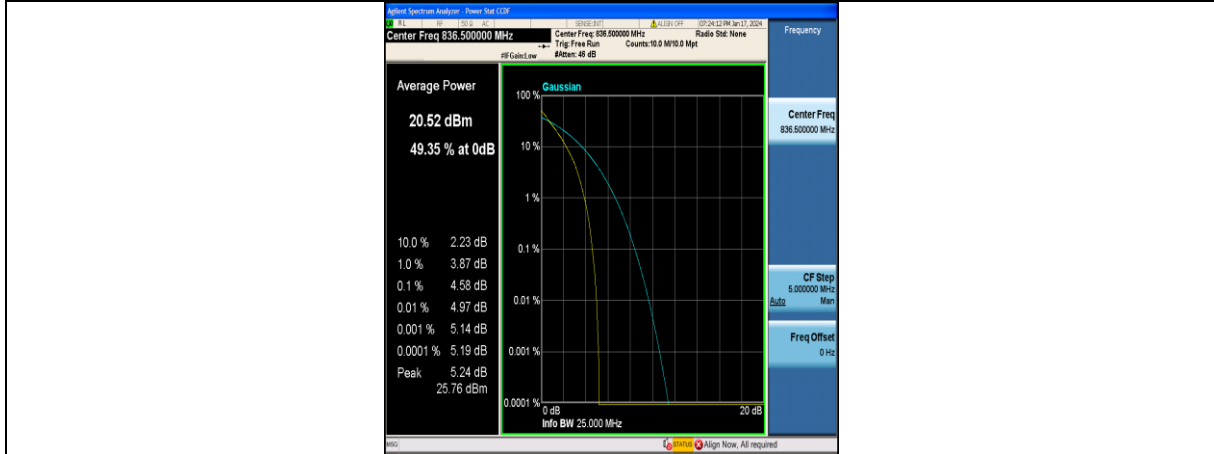
Band5-5MHz-16QAM-20625-25RB#0-PASS



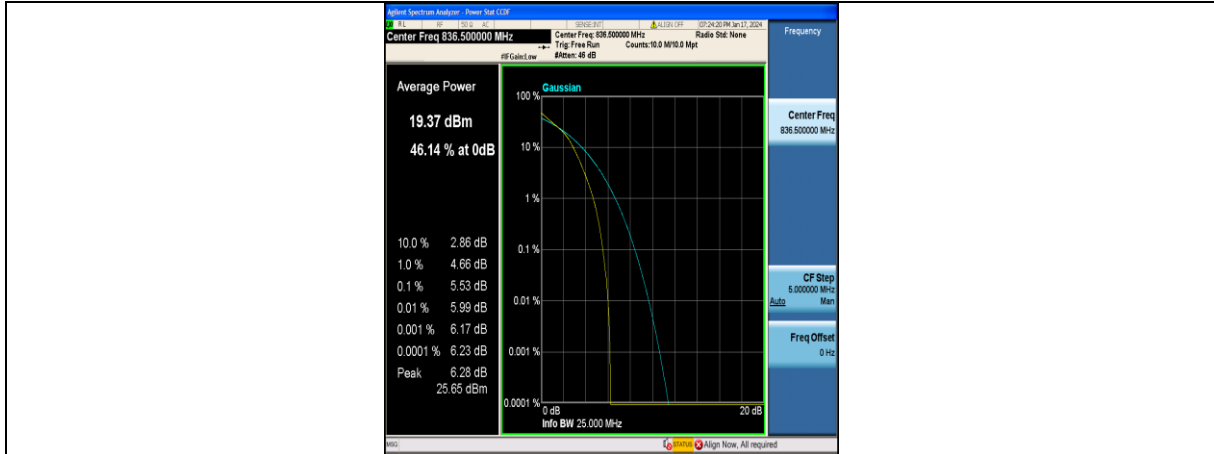
Band5-10MHz-QPSK-20450-50RB#0-PASS



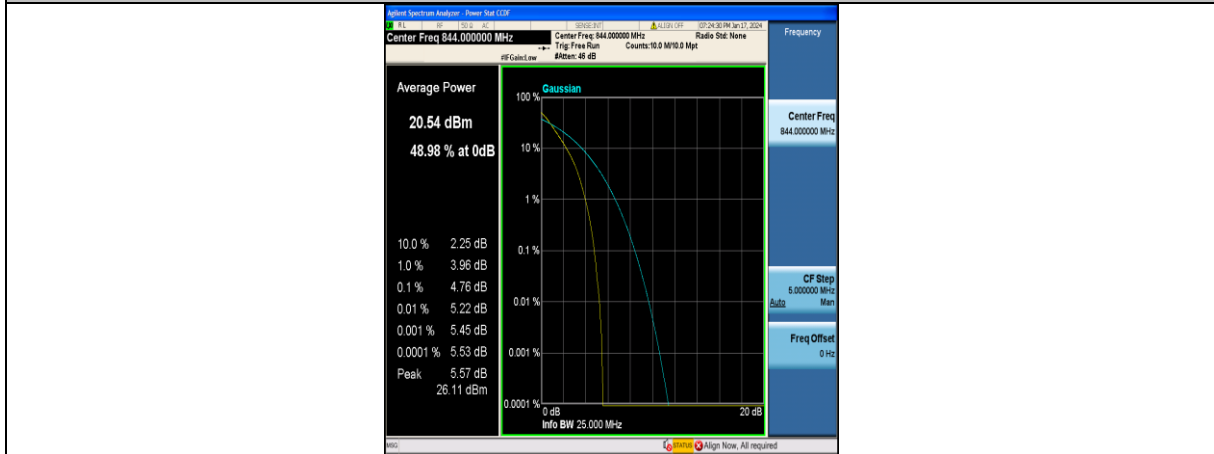
Band5-10MHz-16QAM-20450-50RB#0-PASS



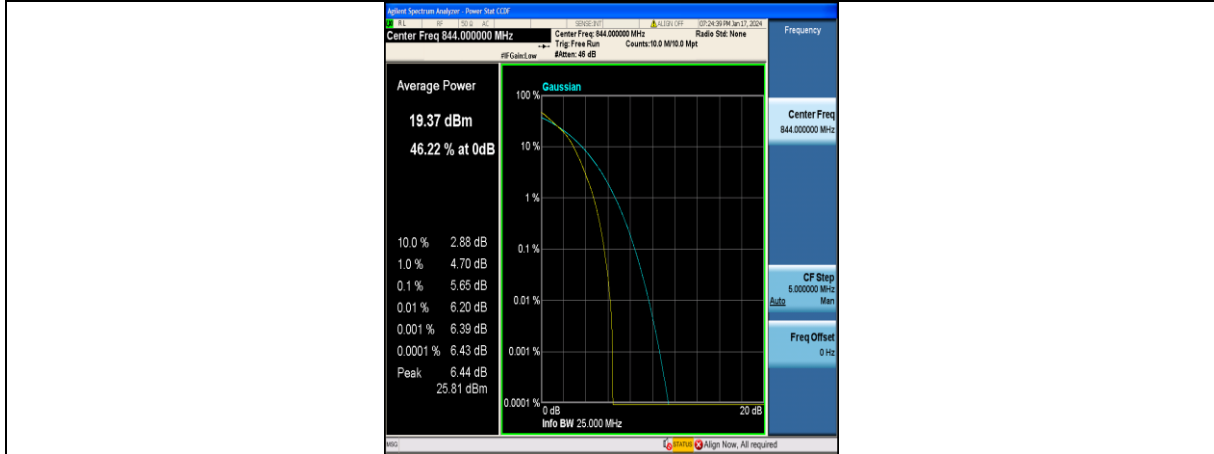
Band5-10MHz-QPSK-20525-50RB#0-PASS



Band5-10MHz-16QAM-20525-50RB#0-PASS

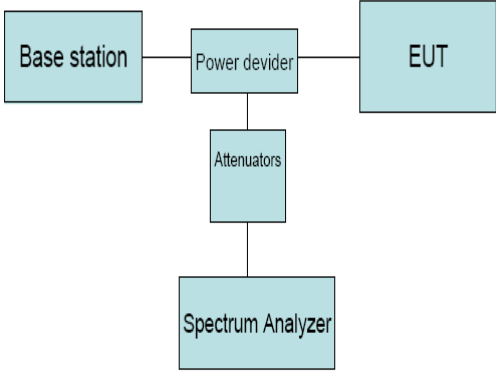


Band5-10MHz-QPSK-20600-50RB#0-PASS



Band5-10MHz-16QAM-20600-50RB#0-PASS

4.4 Conducted spurious emissions

<p>Limit:</p>	<ol style="list-style-type: none"> 1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10\log(P)$ dB 2. The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.
<p>Test setup:</p>	 <pre> graph LR BS[Base station] --- PD[Power divider] PD --- EUT[EUT] PD --- ATT[Attenuators] ATT --- SA[Spectrum Analyzer] </pre>
<p>Test procedure:</p>	<ol style="list-style-type: none"> 1. The EUT was directly connected to the spectrum analyzer and Base station via power splitter as show in the block diagram above. 2. Setting: Frequency bellow 1 GHz: RBW=100 kHz, VBW=300 kHz. Frequency above 1 GHz: RBW=1 MHz, VBW=3 MHz. 3. The low, middle and high channels of each band and mode's spurious emissions for 30 MHz to 10th Harmonic were measured by Spectrum analyzer.
<p>Test results:</p>	<p>Pass</p>

Band	Modulation	BW (MHz)	Frequency (MHz)	RB_Size	RB_start	RBW (kHz)	Test Freq Range (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Result
Band 5	QPSK	1.4M	824.7	1	0	1	0.009~0.150	0.092	-72.75	-13	Pass
Band 5	QPSK	1.4M	824.7	1	0	10	0.150~30.000	0.165	-71.56	-13	Pass
Band 5	QPSK	1.4M	824.7	1	0	100	30.000~822.600	822.204	-50.43	-13	Pass
Band 5	QPSK	1.4M	824.7	1	0	100	850.400~1000.000	851.073	-62.82	-13	Pass
Band 5	QPSK	1.4M	824.7	1	0	1000	1000.000~10000.000	6929.570	-47.79	-13	Pass
Band 5	16QAM	1.4M	824.7	1	0	1	0.009~0.150	0.012	-72.09	-13	Pass
Band 5	16QAM	1.4M	824.7	1	0	10	0.150~30.000	0.165	-70.92	-13	Pass
Band 5	16QAM	1.4M	824.7	1	0	100	30.000~822.600	822.204	-50.53	-13	Pass
Band 5	16QAM	1.4M	824.7	1	0	100	850.400~1000.000	953.297	-62.77	-13	Pass
Band 5	16QAM	1.4M	824.7	1	0	1000	1000.000~10000.000	6902.598	-47.77	-13	Pass
Band 5	QPSK	1.4M	836.5	6	0	1	0.009~0.150	0.014	-80.58	-13	Pass
Band 5	QPSK	1.4M	836.5	6	0	10	0.150~30.000	0.523	-68.39	-13	Pass
Band 5	QPSK	1.4M	836.5	6	0	100	30.000~822.600	781.030	-62.99	-13	Pass
Band 5	QPSK	1.4M	836.5	6	0	100	850.400~1000.000	855.556	-61.66	-13	Pass
Band 5	QPSK	1.4M	836.5	6	0	1000	1000.000~10000.000	6929.570	-47.72	-13	Pass
Band 5	16QAM	1.4M	836.5	6	0	1	0.009~0.150	0.009	-79.90	-13	Pass
Band 5	16QAM	1.4M	836.5	6	0	10	0.150~30.000	0.523	-69.04	-13	Pass
Band 5	16QAM	1.4M	836.5	6	0	100	30.000~822.600	760.443	-62.86	-13	Pass
Band 5	16QAM	1.4M	836.5	6	0	100	850.400~1000.000	850.923	-61.92	-13	Pass
Band 5	16QAM	1.4M	836.5	6	0	1000	1000.000~10000.000	6893.606	-47.75	-13	Pass
Band 5	QPSK	1.4M	848.3	1	5	1	0.009~0.150	0.086	-72.06	-13	Pass
Band 5	QPSK	1.4M	848.3	1	5	10	0.150~30.000	0.165	-71.61	-13	Pass
Band 5	QPSK	1.4M	848.3	1	5	100	30.000~822.600	771.528	-63.13	-13	Pass
Band 5	QPSK	1.4M	848.3	1	5	100	850.400~1000.000	850.624	-44.25	-13	Pass
Band 5	QPSK	1.4M	848.3	1	5	1000	1000.000~10000.000	6911.588	-47.65	-13	Pass
Band 5	16QAM	1.4M	848.3	1	5	1	0.009~0.150	0.092	-72.30	-13	Pass
Band 5	16QAM	1.4M	848.3	1	5	10	0.150~30.000	0.165	-70.59	-13	Pass
Band 5	16QAM	1.4M	848.3	1	5	100	30.000~822.600	822.204	-62.97	-13	Pass
Band 5	16QAM	1.4M	848.3	1	5	100	850.400~1000.000	850.624	-44.56	-13	Pass
Band 5	16QAM	1.4M	848.3	1	5	1000	1000.000~10000.000	6929.570	-47.75	-13	Pass
Band 5	QPSK	3M	825.5	1	0	1	0.009~0.150	0.092	-73.00	-13	Pass
Band 5	QPSK	3M	825.5	1	0	10	0.150~30.000	0.165	-70.25	-13	Pass
Band 5	QPSK	3M	825.5	1	0	100	30.000~821.000	819.024	-50.91	-13	Pass
Band 5	QPSK	3M	825.5	1	0	100	852.000~1000.000	981.740	-62.89	-13	Pass
Band 5	QPSK	3M	825.5	1	0	1000	1000.000~10000.000	6902.598	-47.67	-13	Pass
Band 5	16QAM	3M	825.5	1	0	1	0.009~0.150	0.016	-71.95	-13	Pass

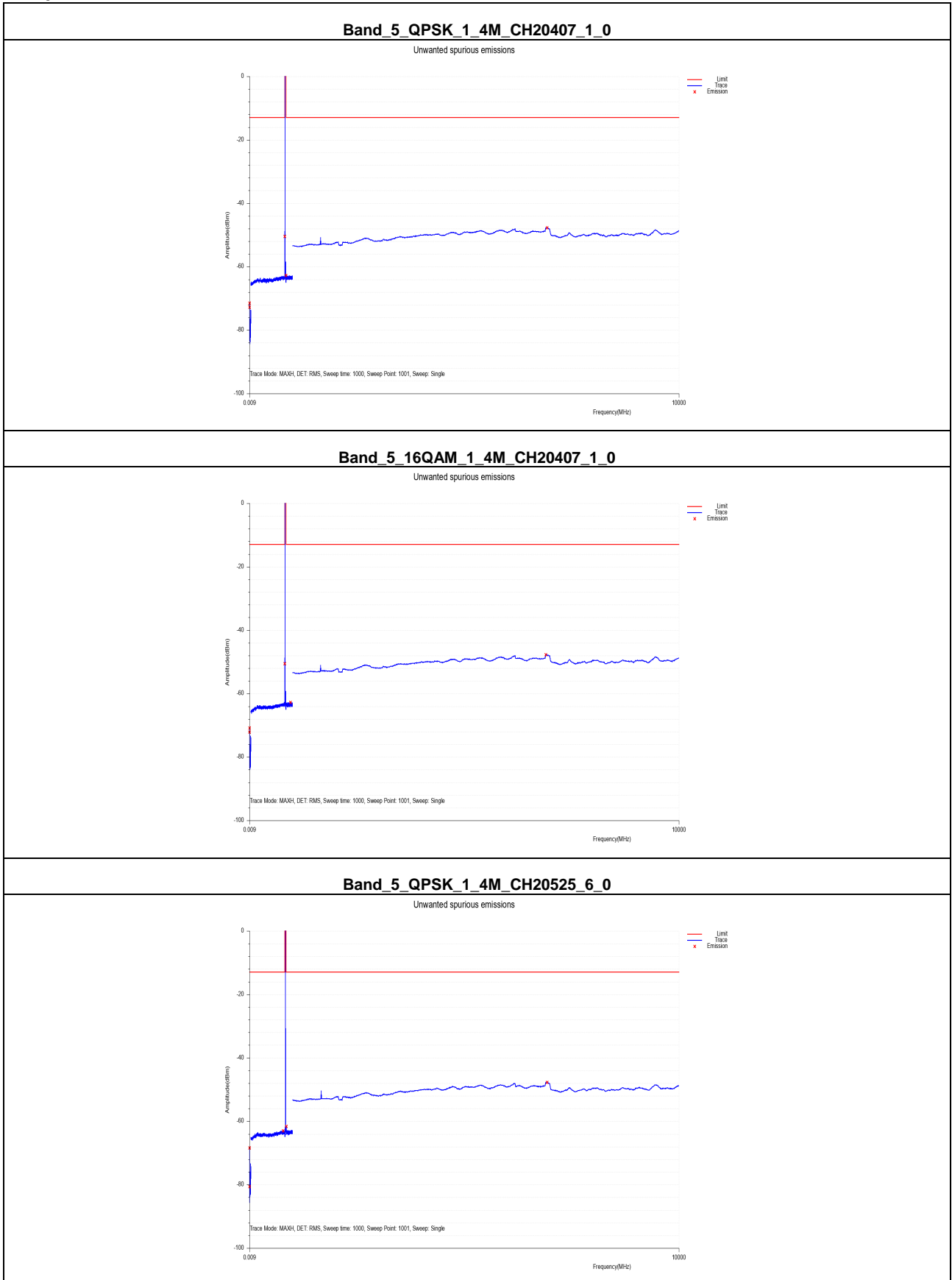
Band 5	16QAM	3M	825.5	1	0	10	0.150~30.000	0.165	-70.73	-13	Pass
Band 5	16QAM	3M	825.5	1	0	100	30.000~821.000	819.024	-52.23	-13	Pass
Band 5	16QAM	3M	825.5	1	0	100	852.000~1000.000	990.907	-62.91	-13	Pass
Band 5	16QAM	3M	825.5	1	0	1000	1000.000~10000.000	6920.580	-47.78	-13	Pass
Band 5	QPSK	3M	836.5	15	0	1	0.009~0.150	0.009	-81.01	-13	Pass
Band 5	QPSK	3M	836.5	15	0	10	0.150~30.000	28.196	-72.98	-13	Pass
Band 5	QPSK	3M	836.5	15	0	100	30.000~821.000	751.066	-62.90	-13	Pass
Band 5	QPSK	3M	836.5	15	0	100	852.000~1000.000	855.622	-62.21	-13	Pass
Band 5	QPSK	3M	836.5	15	0	1000	1000.000~10000.000	6911.588	-47.63	-13	Pass
Band 5	16QAM	3M	836.5	15	0	1	0.009~0.150	0.009	-80.41	-13	Pass
Band 5	16QAM	3M	836.5	15	0	10	0.150~30.000	24.111	-73.13	-13	Pass
Band 5	16QAM	3M	836.5	15	0	100	30.000~821.000	795.318	-63.10	-13	Pass
Band 5	16QAM	3M	836.5	15	0	100	852.000~1000.000	855.327	-62.44	-13	Pass
Band 5	16QAM	3M	836.5	15	0	1000	1000.000~10000.000	6911.588	-47.69	-13	Pass
Band 5	QPSK	3M	847.5	1	11	1	0.009~0.150	0.086	-71.85	-13	Pass
Band 5	QPSK	3M	847.5	1	11	10	0.150~30.000	0.165	-69.11	-13	Pass
Band 5	QPSK	3M	847.5	1	11	100	30.000~821.000	817.444	-63.05	-13	Pass
Band 5	QPSK	3M	847.5	1	11	100	852.000~1000.000	853.996	-54.76	-13	Pass
Band 5	QPSK	3M	847.5	1	11	1000	1000.000~10000.000	6920.580	-47.80	-13	Pass
Band 5	16QAM	3M	847.5	1	11	1	0.009~0.150	0.092	-72.19	-13	Pass
Band 5	16QAM	3M	847.5	1	11	10	0.150~30.000	0.165	-70.25	-13	Pass
Band 5	16QAM	3M	847.5	1	11	100	30.000~821.000	724.199	-62.98	-13	Pass
Band 5	16QAM	3M	847.5	1	11	100	852.000~1000.000	853.848	-54.79	-13	Pass
Band 5	16QAM	3M	847.5	1	11	1000	1000.000~10000.000	6911.588	-47.73	-13	Pass
Band 5	QPSK	5M	826.5	1	0	1	0.009~0.150	0.102	-72.20	-13	Pass
Band 5	QPSK	5M	826.5	1	0	10	0.150~30.000	0.165	-71.58	-13	Pass
Band 5	QPSK	5M	826.5	1	0	100	30.000~819.000	815.453	-58.81	-13	Pass
Band 5	QPSK	5M	826.5	1	0	100	854.000~1000.000	912.269	-62.91	-13	Pass
Band 5	QPSK	5M	826.5	1	0	1000	1000.000~10000.000	6911.588	-47.67	-13	Pass
Band 5	16QAM	5M	826.5	1	0	1	0.009~0.150	0.014	-70.92	-13	Pass
Band 5	16QAM	5M	826.5	1	0	10	0.150~30.000	0.165	-70.23	-13	Pass
Band 5	16QAM	5M	826.5	1	0	100	30.000~819.000	815.453	-60.12	-13	Pass
Band 5	16QAM	5M	826.5	1	0	100	854.000~1000.000	870.700	-62.86	-13	Pass
Band 5	16QAM	5M	826.5	1	0	1000	1000.000~10000.000	6938.562	-47.78	-13	Pass
Band 5	QPSK	5M	836.5	25	0	1	0.009~0.150	0.009	-80.89	-13	Pass
Band 5	QPSK	5M	836.5	25	0	10	0.150~30.000	22.172	-73.55	-13	Pass
Band 5	QPSK	5M	836.5	25	0	100	30.000~819.000	818.606	-62.65	-13	Pass
Band 5	QPSK	5M	836.5	25	0	100	854.000~1000.000	854.656	-61.85	-13	Pass

Band 5	QPSK	5M	836.5	25	0	1000	1000.000~10000.000	6920.580	-47.67	-13	Pass
Band 5	16QAM	5M	836.5	25	0	1	0.009~0.150	0.009	-80.81	-13	Pass
Band 5	16QAM	5M	836.5	25	0	10	0.150~30.000	23.514	-73.83	-13	Pass
Band 5	16QAM	5M	836.5	25	0	100	30.000~819.000	817.029	-63.01	-13	Pass
Band 5	16QAM	5M	836.5	25	0	100	854.000~1000.000	854.073	-62.38	-13	Pass
Band 5	16QAM	5M	836.5	25	0	1000	1000.000~10000.000	6911.588	-47.78	-13	Pass
Band 5	QPSK	5M	846.5	1	24	1	0.009~0.150	0.088	-72.59	-13	Pass
Band 5	QPSK	5M	846.5	1	24	10	0.150~30.000	0.165	-70.04	-13	Pass
Band 5	QPSK	5M	846.5	1	24	100	30.000~819.000	753.184	-62.89	-13	Pass
Band 5	QPSK	5M	846.5	1	24	100	854.000~1000.000	857.282	-47.14	-13	Pass
Band 5	QPSK	5M	846.5	1	24	1000	1000.000~10000.000	6902.598	-47.68	-13	Pass
Band 5	16QAM	5M	846.5	1	24	1	0.009~0.150	0.090	-72.50	-13	Pass
Band 5	16QAM	5M	846.5	1	24	10	0.150~30.000	0.165	-71.24	-13	Pass
Band 5	16QAM	5M	846.5	1	24	100	30.000~819.000	781.560	-63.04	-13	Pass
Band 5	16QAM	5M	846.5	1	24	100	854.000~1000.000	857.282	-47.18	-13	Pass
Band 5	16QAM	5M	846.5	1	24	1000	1000.000~10000.000	6920.580	-47.69	-13	Pass
Band 5	QPSK	10M	829.0	1	0	1	0.009~0.150	0.092	-73.09	-13	Pass
Band 5	QPSK	10M	829.0	1	0	10	0.150~30.000	0.165	-69.91	-13	Pass
Band 5	QPSK	10M	829.0	1	0	100	30.000~814.000	806.559	-63.00	-13	Pass
Band 5	QPSK	10M	829.0	1	0	100	859.000~1000.000	970.772	-62.81	-13	Pass
Band 5	QPSK	10M	829.0	1	0	1000	1000.000~10000.000	6911.588	-47.71	-13	Pass
Band 5	16QAM	10M	829.0	1	0	1	0.009~0.150	0.016	-72.02	-13	Pass
Band 5	16QAM	10M	829.0	1	0	10	0.150~30.000	0.165	-69.80	-13	Pass
Band 5	16QAM	10M	829.0	1	0	100	30.000~814.000	785.413	-63.07	-13	Pass
Band 5	16QAM	10M	829.0	1	0	100	859.000~1000.000	997.394	-62.81	-13	Pass
Band 5	16QAM	10M	829.0	1	0	1000	1000.000~10000.000	6902.598	-47.75	-13	Pass
Band 5	QPSK	10M	836.5	50	0	1	0.009~0.150	0.009	-80.92	-13	Pass
Band 5	QPSK	10M	836.5	50	0	10	0.150~30.000	22.172	-73.92	-13	Pass
Band 5	QPSK	10M	836.5	50	0	100	30.000~814.000	779.930	-63.01	-13	Pass
Band 5	QPSK	10M	836.5	50	0	100	859.000~1000.000	859.352	-62.55	-13	Pass
Band 5	QPSK	10M	836.5	50	0	1000	1000.000~10000.000	6920.580	-47.71	-13	Pass
Band 5	16QAM	10M	836.5	50	0	1	0.009~0.150	0.009	-80.91	-13	Pass
Band 5	16QAM	10M	836.5	50	0	10	0.150~30.000	29.687	-73.60	-13	Pass
Band 5	16QAM	10M	836.5	50	0	100	30.000~814.000	791.678	-62.87	-13	Pass
Band 5	16QAM	10M	836.5	50	0	100	859.000~1000.000	915.273	-62.68	-13	Pass
Band 5	16QAM	10M	836.5	50	0	1000	1000.000~10000.000	6911.588	-47.72	-13	Pass
Band 5	QPSK	10M	844.0	1	49	1	0.009~0.150	0.086	-72.18	-13	Pass
Band 5	QPSK	10M	844.0	1	49	10	0.150~30.000	0.165	-70.34	-13	Pass

Band 5	QPSK	10M	844.0	1	49	100	30.000~814.000	769.748	-63.11	-13	Pass
Band 5	QPSK	10M	844.0	1	49	100	859.000~1000.000	867.522	-60.20	-13	Pass
Band 5	QPSK	10M	844.0	1	49	1000	1000.000~10000.000	6902.598	-47.67	-13	Pass
Band 5	16QAM	10M	844.0	1	49	1	0.009~0.150	0.092	-72.31	-13	Pass
Band 5	16QAM	10M	844.0	1	49	10	0.150~30.000	0.165	-69.90	-13	Pass
Band 5	16QAM	10M	844.0	1	49	100	30.000~814.000	773.664	-62.90	-13	Pass
Band 5	16QAM	10M	844.0	1	49	100	859.000~1000.000	867.522	-60.29	-13	Pass
Band 5	16QAM	10M	844.0	1	49	1000	1000.000~10000.000	6920.580	-47.67	-13	Pass

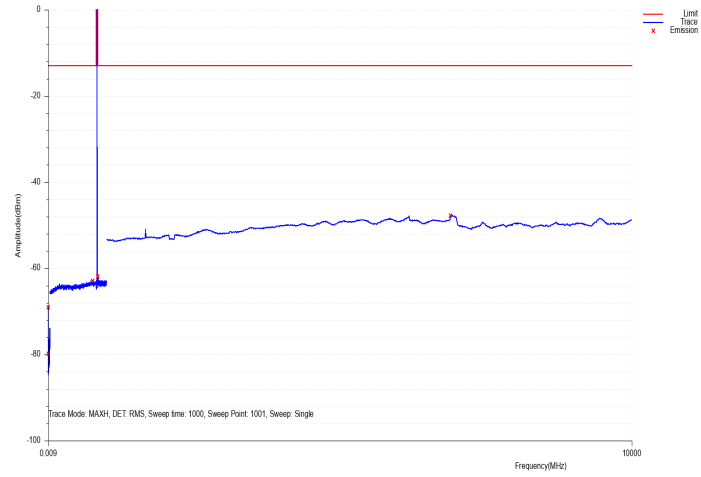
Remark: All modes of RB configurations have been tested, and only worst configuration data listed.

Test plots:



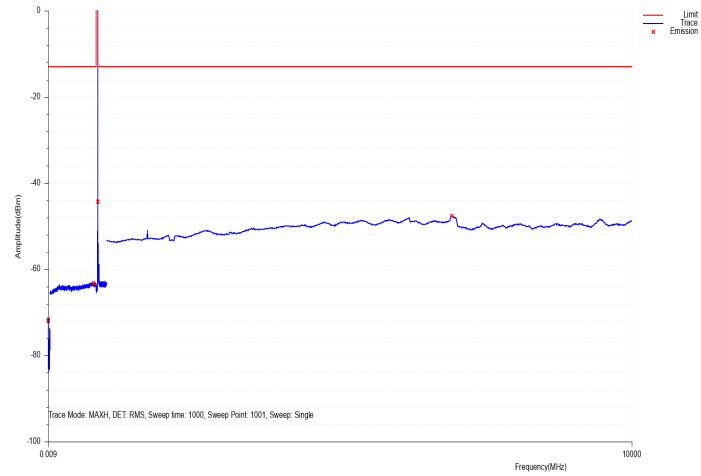
Band 5_16QAM_1_4M_CH20525_6_0

Unwanted spurious emissions



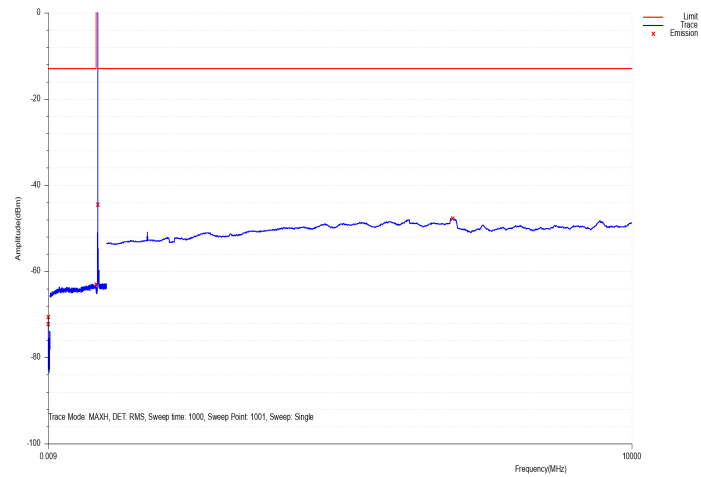
Band 5_QPSK_1_4M_CH20643_1_5

Unwanted spurious emissions

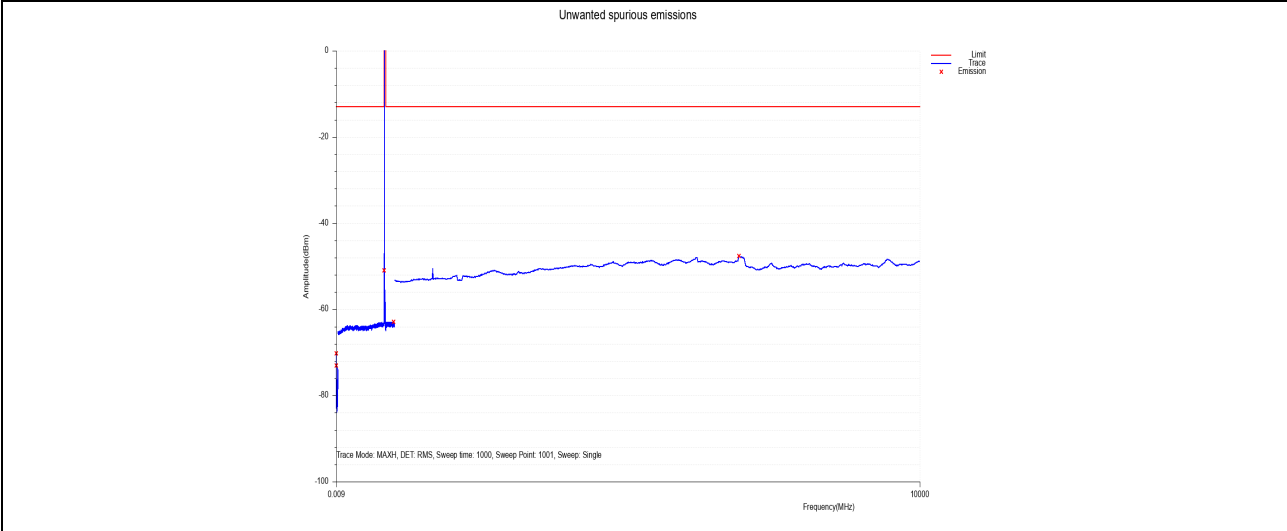


Band 5_16QAM_1_4M_CH20643_1_5

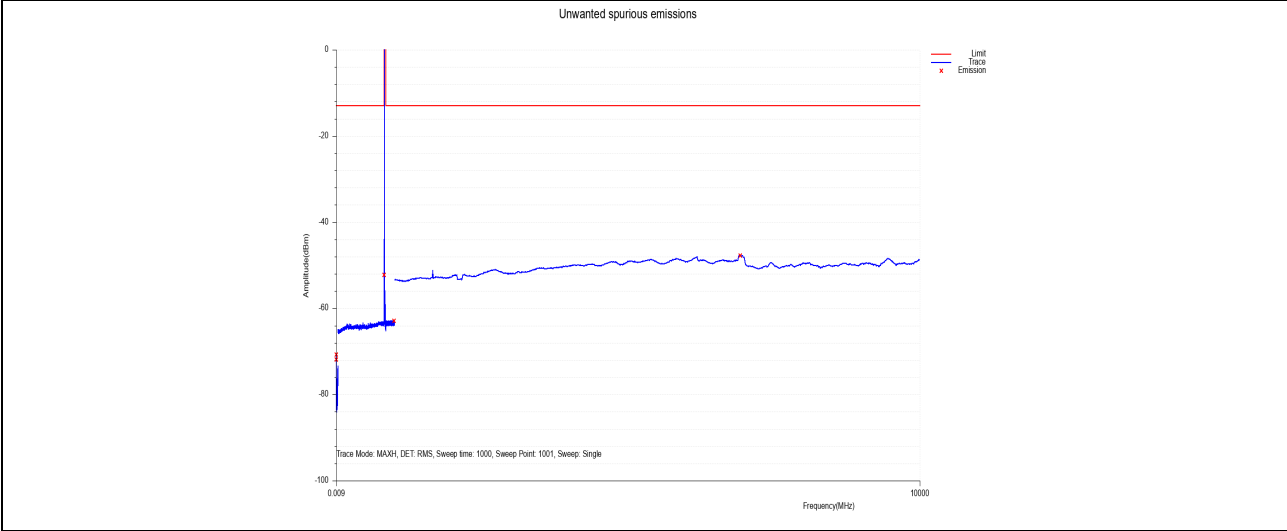
Unwanted spurious emissions



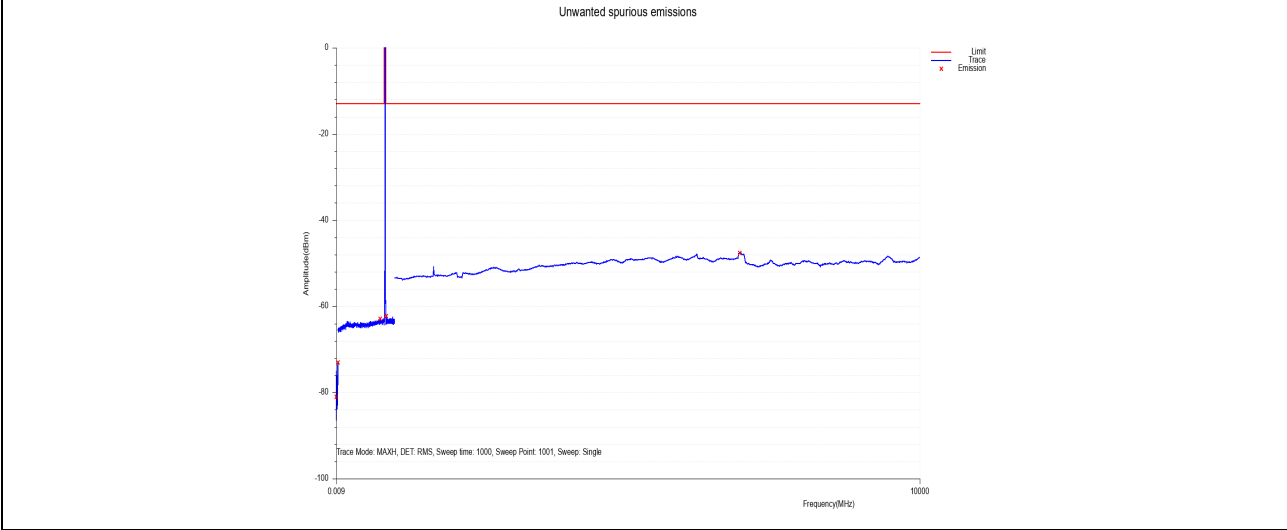
Band_5_QPSK_3M_CH20415_1_0



Band_5_16QAM_3M_CH20415_1_0

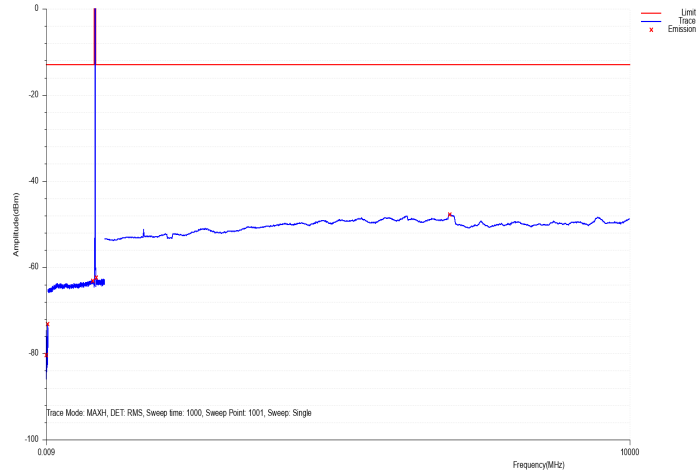


Band_5_QPSK_3M_CH20525_15_0



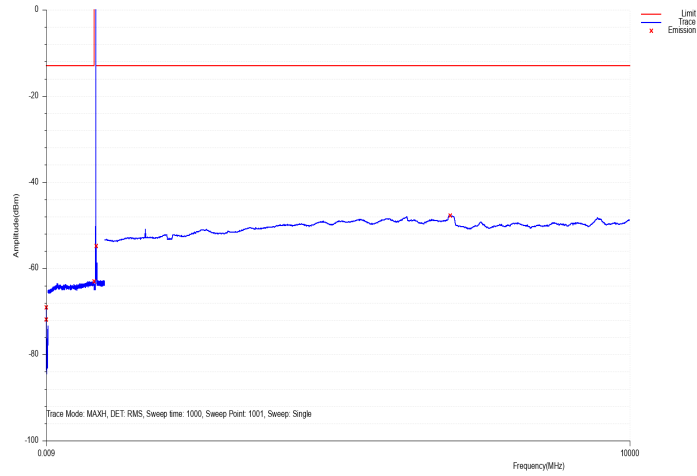
Band 5_16QAM_3M_CH20525_15_0

Unwanted spurious emissions



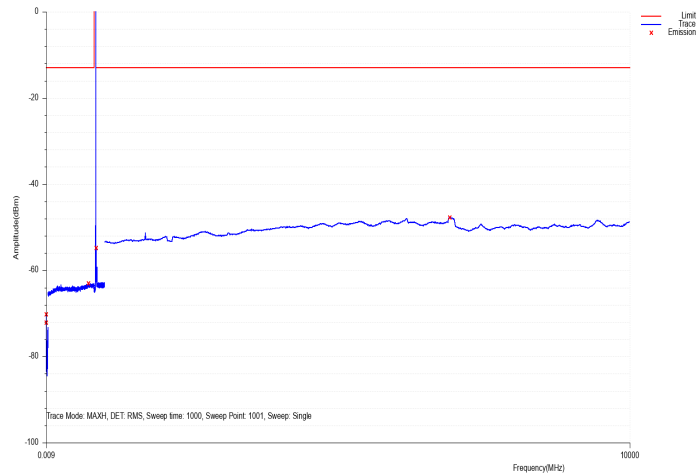
Band 5_QPSK_3M_CH20635_1_11

Unwanted spurious emissions



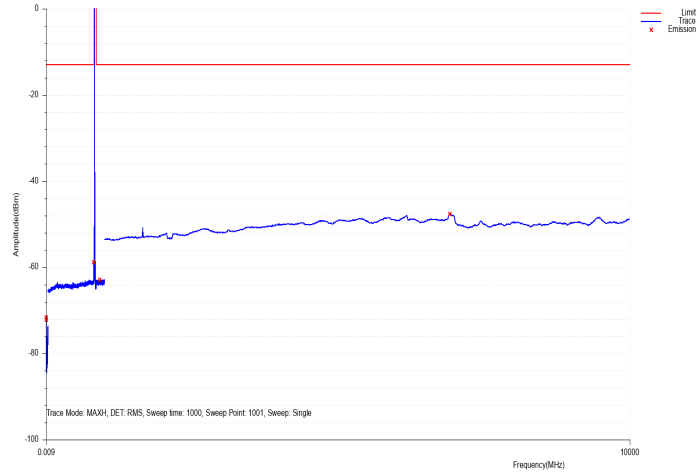
Band 5_16QAM_3M_CH20635_1_11

Unwanted spurious emissions



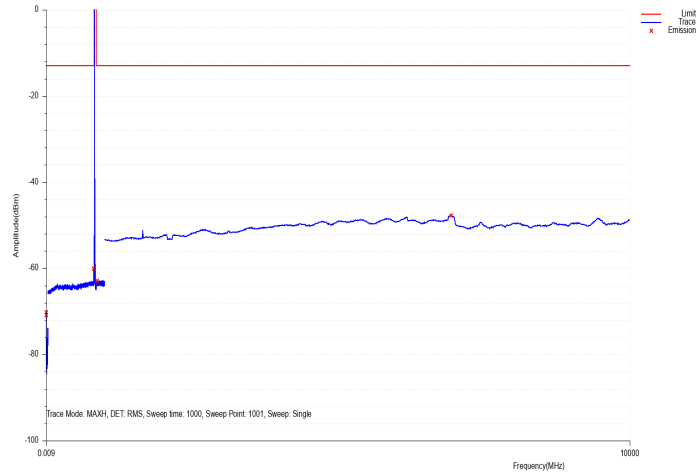
Band 5_QPSK_5M_CH20425_1_0

Unwanted spurious emissions



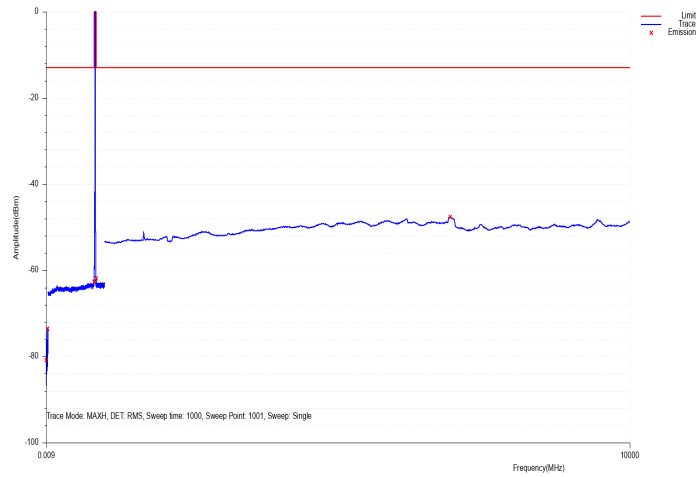
Band 5_16QAM_5M_CH20425_1_0

Unwanted spurious emissions



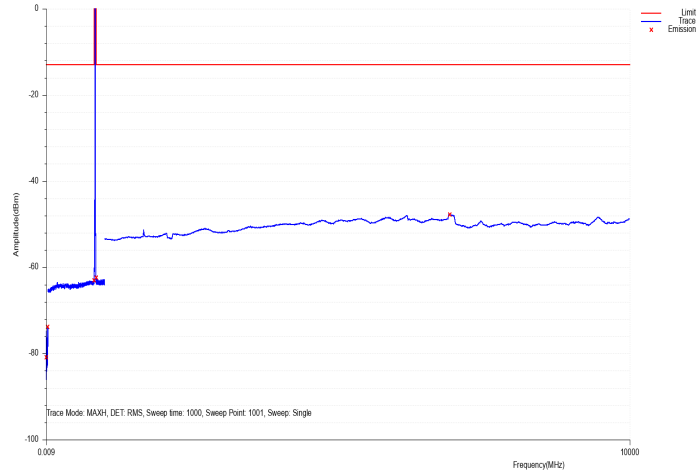
Band 5_QPSK_5M_CH20525_25_0

Unwanted spurious emissions



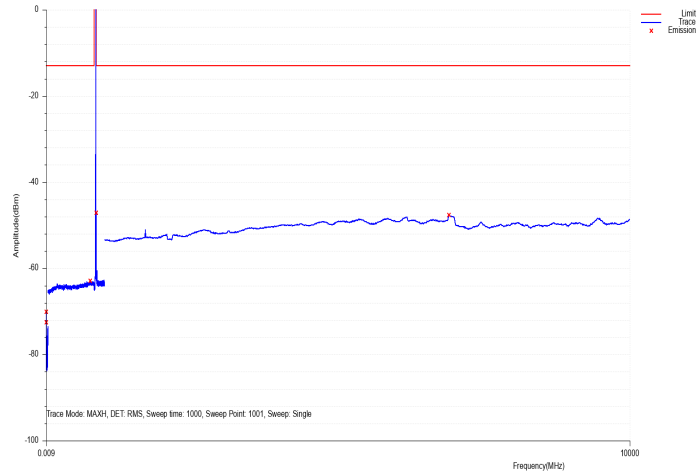
Band 5_16QAM_5M_CH20525_25_0

Unwanted spurious emissions



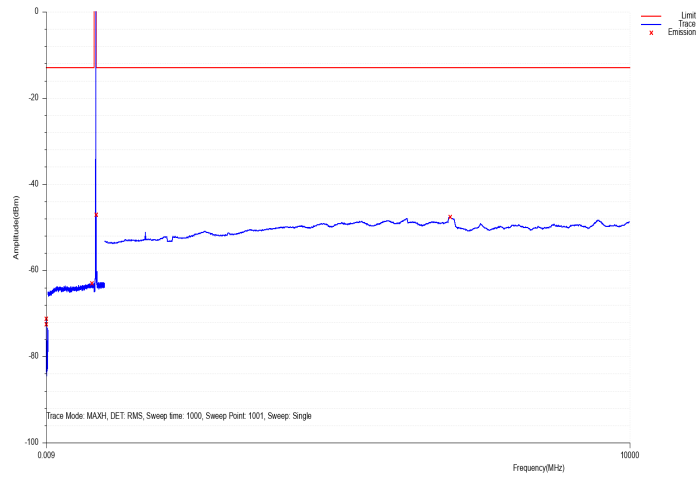
Band 5_QPSK_5M_CH20625_1_24

Unwanted spurious emissions



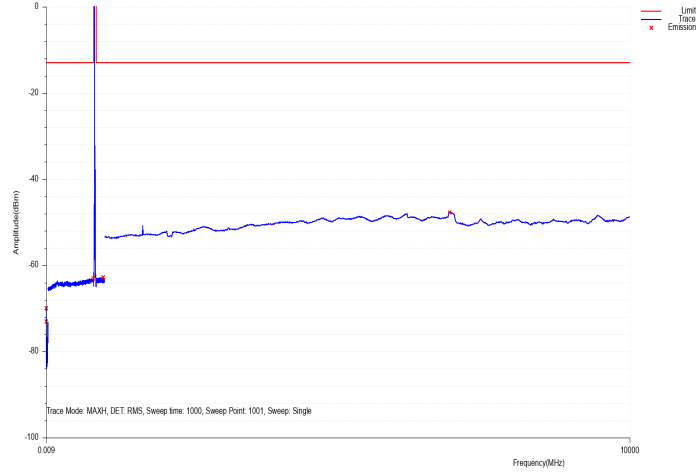
Band 5_16QAM_5M_CH20625_1_24

Unwanted spurious emissions



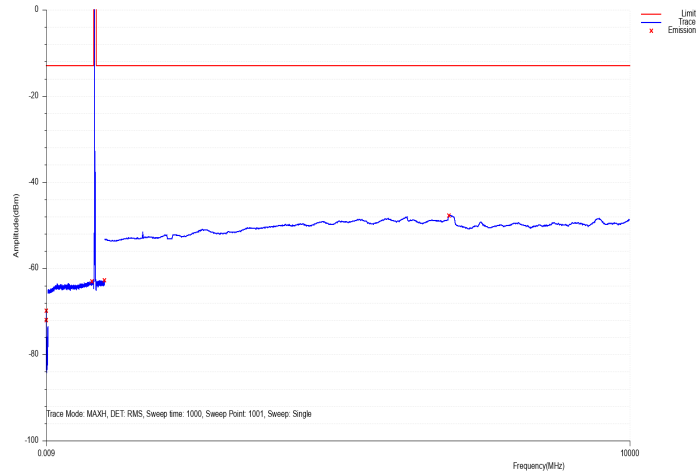
Band 5_QPSK_10M_CH20450_1_0

Unwanted spurious emissions



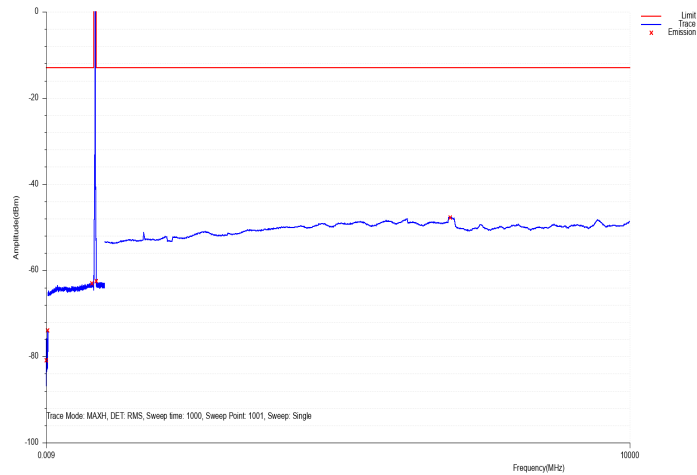
Band 5_16QAM_10M_CH20450_1_0

Unwanted spurious emissions



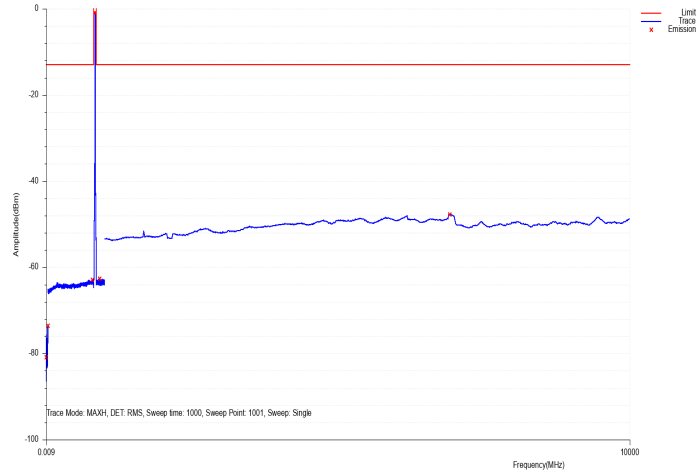
Band 5_QPSK_10M_CH20525_50_0

Unwanted spurious emissions



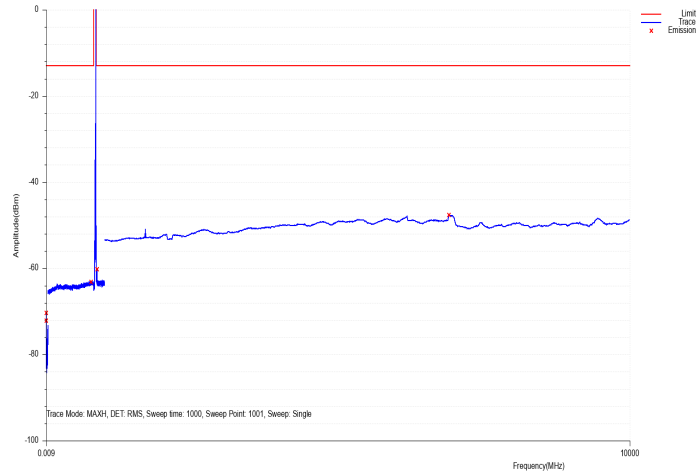
Band 5_16QAM_10M_CH20525_50_0

Unwanted spurious emissions



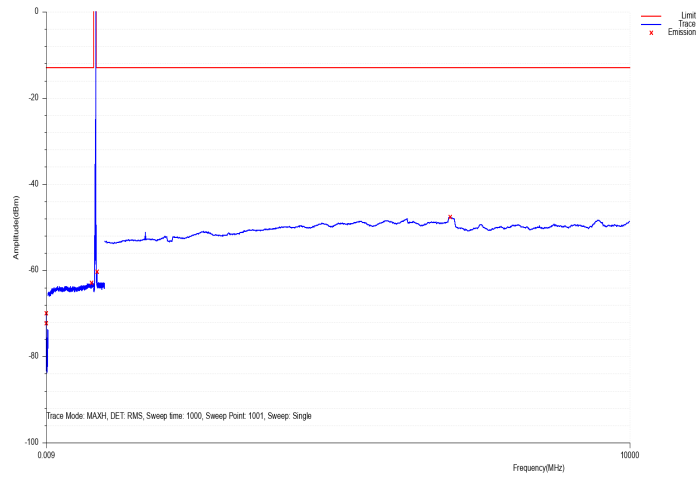
Band 5_QPSK_10M_CH20600_1_49

Unwanted spurious emissions

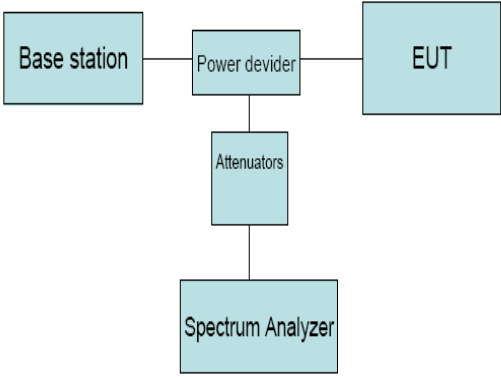


Band 5_16QAM_10M_CH20600_1_49

Unwanted spurious emissions



4.5 Band edge

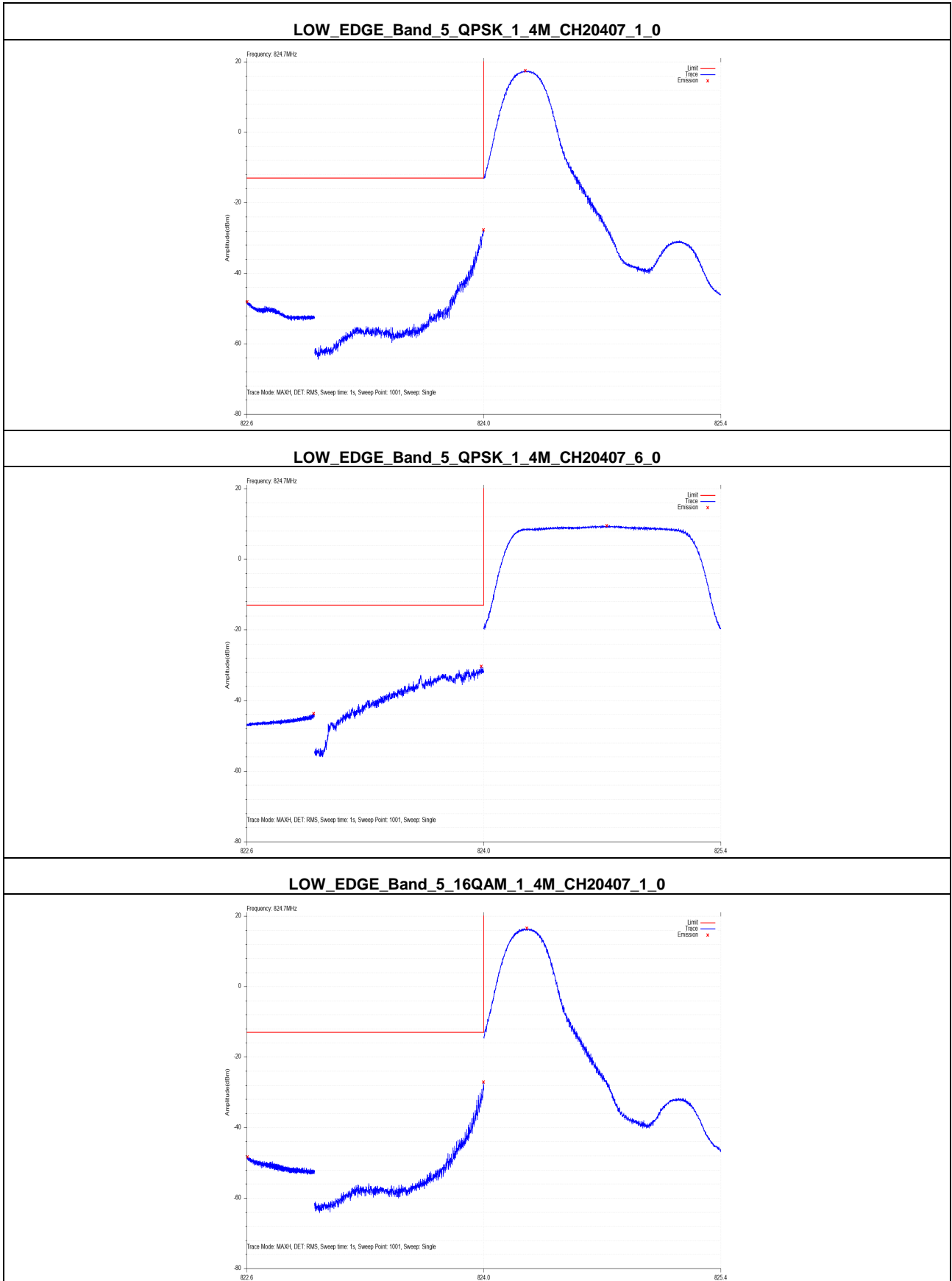
<p>Limit:</p>	<ol style="list-style-type: none"> 1.The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10\log (P)$ dB 2. The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out
<p>Test setup:</p>	 <pre> graph LR BS[Base station] --- PD[Power divider] PD --- EUT[EUT] PD --- ATT[Attenuators] ATT --- SA[Spectrum Analyzer] </pre>
<p>Test procedure:</p>	<ol style="list-style-type: none"> 1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2. The band edges of low and high channels for the highest RF powers were measured. Set $RBW \geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge. 3. Set spectrum analyzer with RMS detector 4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
<p>Test results:</p>	<p>Pass</p>

Band	Modulation	BW (MHz)	Frequency (MHz)	RB_Size	RB_start	RBW (kHz)	Test Freq Range(MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Result
Band 5	QPSK	1.4M	824.7	1	0	100	822.6~823.0	822.602	-48.10	-13	Pass
Band 5	QPSK	1.4M	824.7	1	0	14.0	823.0~824.0	823.999	-27.73	-13	Pass
Band 5	QPSK	1.4M	824.7	6	0	100	822.6~823.0	822.995	-43.74	-13	Pass
Band 5	QPSK	1.4M	824.7	6	0	14.0	823.0~824.0	823.985	-30.35	-13	Pass
Band 5	16QAM	1.4M	824.7	1	0	100	822.6~823.0	822.604	-48.31	-13	Pass
Band 5	16QAM	1.4M	824.7	1	0	14.0	823.0~824.0	823.999	-27.15	-13	Pass
Band 5	16QAM	1.4M	824.7	6	0	100	822.6~823.0	822.992	-43.19	-13	Pass
Band 5	16QAM	1.4M	824.7	6	0	14.0	823.0~824.0	823.980	-32.41	-13	Pass
Band 5	QPSK	1.4M	848.3	1	5	14.0	849.0~850.0	849.002	-26.61	-13	Pass
Band 5	QPSK	1.4M	848.3	1	5	100	850.0~850.4	850.389	-46.59	-13	Pass
Band 5	QPSK	1.4M	848.3	6	0	14.0	849.0~850.0	849.009	-28.78	-13	Pass
Band 5	QPSK	1.4M	848.3	6	0	100	850.0~850.4	850.003	-41.11	-13	Pass
Band 5	16QAM	1.4M	848.3	1	5	14.0	849.0~850.0	849.004	-26.98	-13	Pass
Band 5	16QAM	1.4M	848.3	1	5	100	850.0~850.4	850.383	-45.88	-13	Pass
Band 5	16QAM	1.4M	848.3	6	0	14.0	849.0~850.0	849.007	-30.51	-13	Pass
Band 5	16QAM	1.4M	848.3	6	0	100	850.0~850.4	850.005	-42.16	-13	Pass
Band 5	QPSK	3M	825.5	15	0	100	821.0~823.0	822.999	-28.60	-13	Pass
Band 5	QPSK	3M	825.5	15	0	30.0	823.0~824.0	823.977	-28.96	-13	Pass
Band 5	QPSK	3M	825.5	1	0	100	821.0~823.0	821.746	-46.28	-13	Pass
Band 5	QPSK	3M	825.5	1	0	30.0	823.0~824.0	823.999	-22.10	-13	Pass
Band 5	16QAM	3M	825.5	15	0	100	821.0~823.0	822.993	-30.75	-13	Pass
Band 5	16QAM	3M	825.5	15	0	30.0	823.0~824.0	823.969	-31.45	-13	Pass
Band 5	16QAM	3M	825.5	1	0	100	821.0~823.0	822.993	-39.27	-13	Pass
Band 5	16QAM	3M	825.5	1	0	30.0	823.0~824.0	823.994	-22.91	-13	Pass
Band 5	QPSK	3M	847.5	15	0	30.0	849.0~850.0	849.004	-28.16	-13	Pass
Band 5	QPSK	3M	847.5	15	0	100	850.0~852.0	850.047	-27.43	-13	Pass
Band 5	QPSK	3M	847.5	1	11	30.0	849.0~850.0	849.004	-50.37	-13	Pass
Band 5	QPSK	3M	847.5	1	11	100	850.0~852.0	851.126	-42.45	-13	Pass
Band 5	16QAM	3M	847.5	15	0	30.0	849.0~850.0	849.024	-30.08	-13	Pass
Band 5	16QAM	3M	847.5	15	0	100	850.0~852.0	850.023	-29.71	-13	Pass
Band 5	16QAM	3M	847.5	1	11	30.0	849.0~850.0	849.020	-49.53	-13	Pass
Band 5	16QAM	3M	847.5	1	11	100	850.0~852.0	851.142	-43.42	-13	Pass
Band 5	QPSK	5M	826.5	1	0	100	819.0~823.0	820.041	-50.86	-13	Pass
Band 5	QPSK	5M	826.5	1	0	50.0	823.0~824.0	823.996	-16.24	-13	Pass
Band 5	QPSK	5M	826.5	25	0	100	819.0~823.0	822.982	-29.72	-13	Pass
Band 5	QPSK	5M	826.5	25	0	50.0	823.0~824.0	823.999	-26.80	-13	Pass

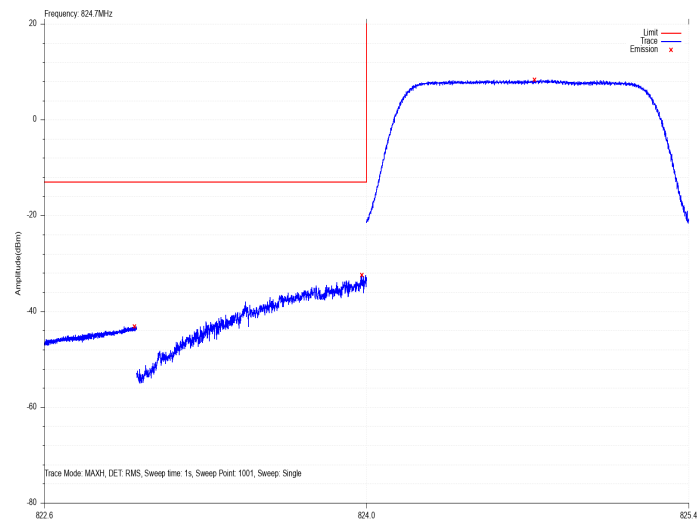
Band 5	16QAM	5M	826.5	1	0	100	819.0~823.0	822.998	-51.79	-13	Pass
Band 5	16QAM	5M	826.5	1	0	50.0	823.0~824.0	823.994	-17.04	-13	Pass
Band 5	16QAM	5M	826.5	25	0	100	819.0~823.0	822.990	-32.45	-13	Pass
Band 5	16QAM	5M	826.5	25	0	50.0	823.0~824.0	823.996	-28.97	-13	Pass
Band 5	QPSK	5M	846.5	1	24	50.0	849.0~850.0	849.006	-17.46	-13	Pass
Band 5	QPSK	5M	846.5	1	24	100	850.0~854.0	850.833	-51.47	-13	Pass
Band 5	QPSK	5M	846.5	25	0	50.0	849.0~850.0	849.004	-27.55	-13	Pass
Band 5	QPSK	5M	846.5	25	0	100	850.0~854.0	850.198	-29.32	-13	Pass
Band 5	16QAM	5M	846.5	1	24	50.0	849.0~850.0	849.007	-17.71	-13	Pass
Band 5	16QAM	5M	846.5	1	24	100	850.0~854.0	852.995	-50.60	-13	Pass
Band 5	16QAM	5M	846.5	25	0	50.0	849.0~850.0	849.006	-29.44	-13	Pass
Band 5	16QAM	5M	846.5	25	0	100	850.0~854.0	850.050	-31.81	-13	Pass
Band 5	QPSK	10M	829.0	1	0	100	814.0~823.0	822.986	-48.33	-13	Pass
Band 5	QPSK	10M	829.0	1	0	100.0	823.0~824.0	823.996	-18.94	-13	Pass
Band 5	QPSK	10M	829.0	50	0	100	814.0~823.0	822.996	-31.77	-13	Pass
Band 5	QPSK	10M	829.0	50	0	100.0	823.0~824.0	823.998	-28.82	-13	Pass
Band 5	16QAM	10M	829.0	1	0	100	814.0~823.0	822.996	-49.65	-13	Pass
Band 5	16QAM	10M	829.0	1	0	100.0	823.0~824.0	823.986	-20.20	-13	Pass
Band 5	16QAM	10M	829.0	50	0	100	814.0~823.0	822.986	-34.42	-13	Pass
Band 5	16QAM	10M	829.0	50	0	100.0	823.0~824.0	823.994	-31.14	-13	Pass
Band 5	QPSK	10M	844.0	1	49	100.0	849.0~850.0	849.004	-19.69	-13	Pass
Band 5	QPSK	10M	844.0	1	49	100	850.0~859.0	850.004	-49.43	-13	Pass
Band 5	QPSK	10M	844.0	50	0	100.0	849.0~850.0	849.006	-31.94	-13	Pass
Band 5	QPSK	10M	844.0	50	0	100	850.0~859.0	850.040	-34.75	-13	Pass
Band 5	16QAM	10M	844.0	1	49	100.0	849.0~850.0	849.004	-19.99	-13	Pass
Band 5	16QAM	10M	844.0	1	49	100	850.0~859.0	850.076	-48.51	-13	Pass
Band 5	16QAM	10M	844.0	50	0	100.0	849.0~850.0	849.002	-34.34	-13	Pass
Band 5	16QAM	10M	844.0	50	0	100	850.0~859.0	850.391	-37.28	-13	Pass

Note: all modes of RB configurations have been tested, and only worst configuration data listed.

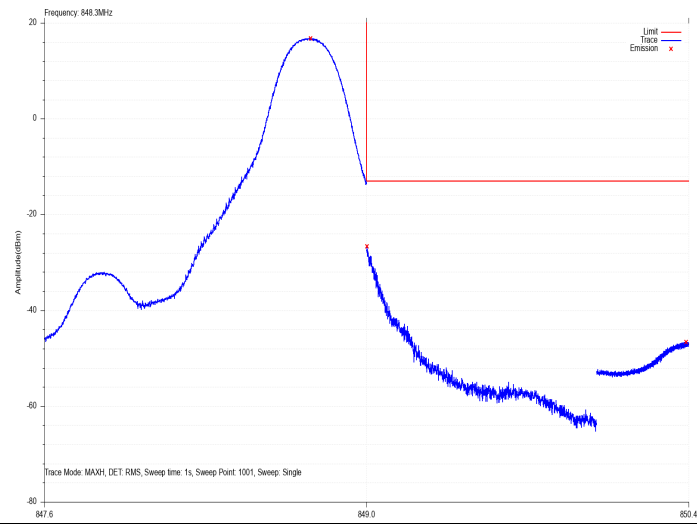
Test plots:



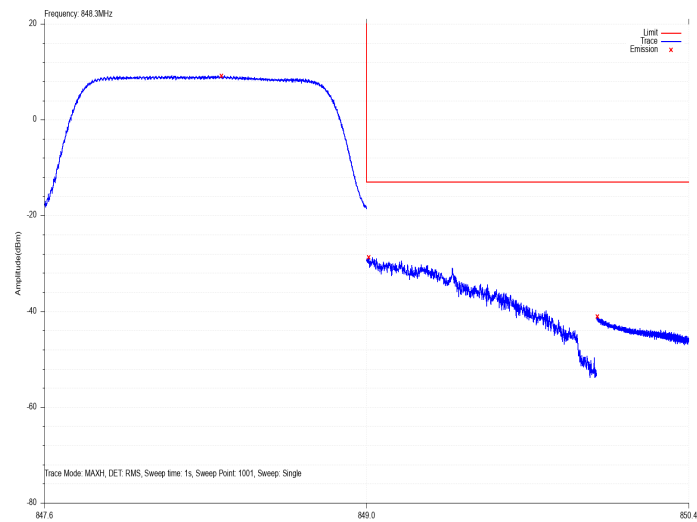
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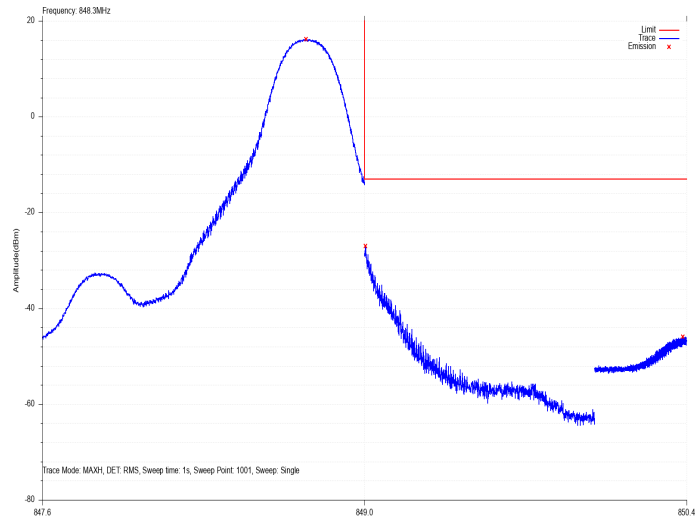
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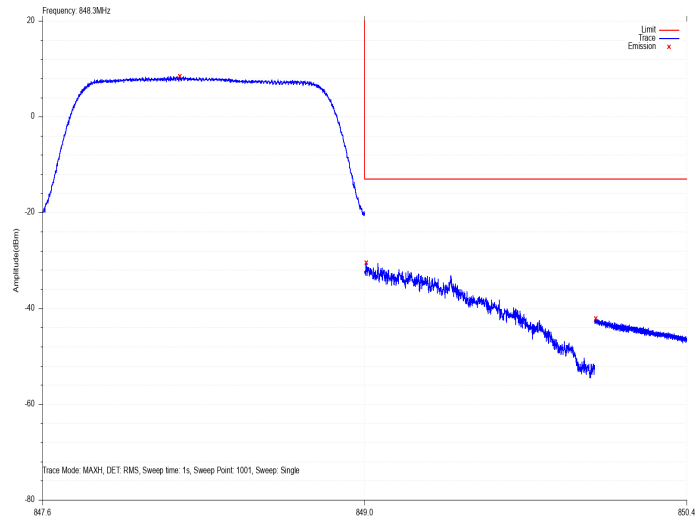
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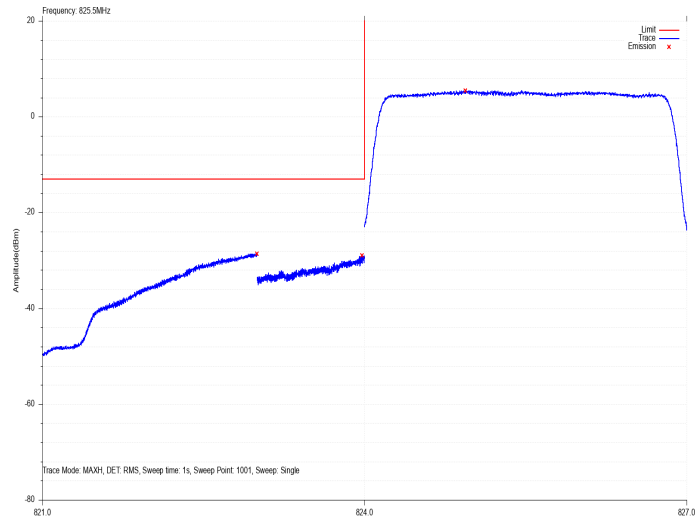
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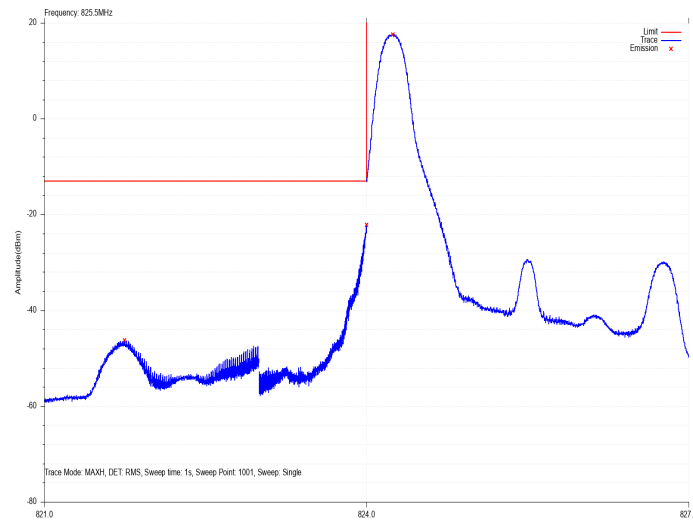
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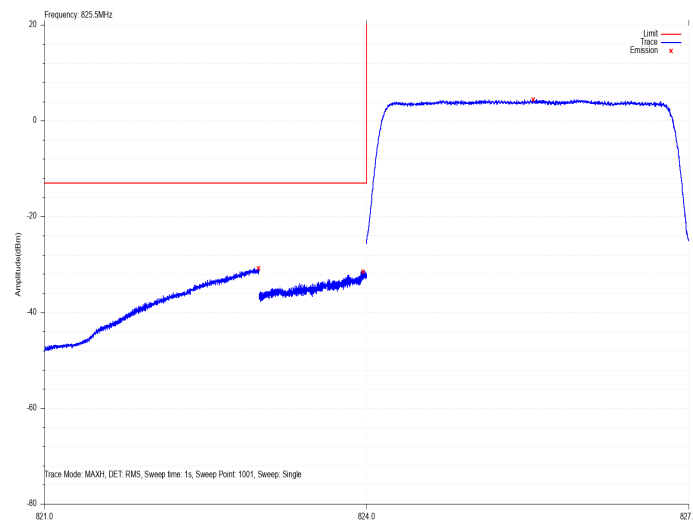
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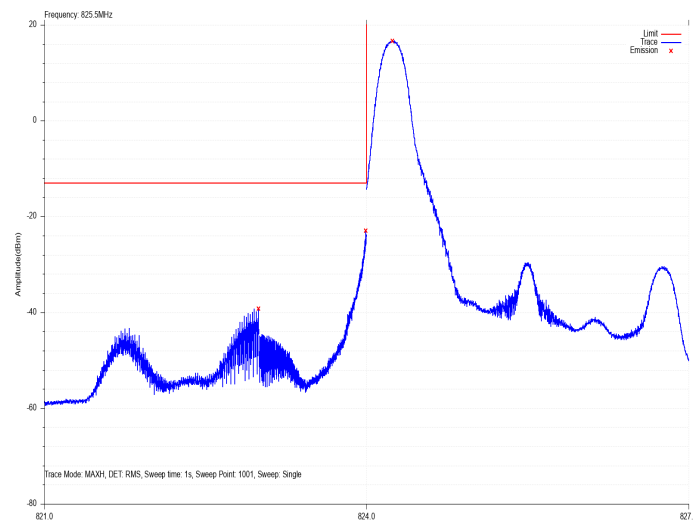
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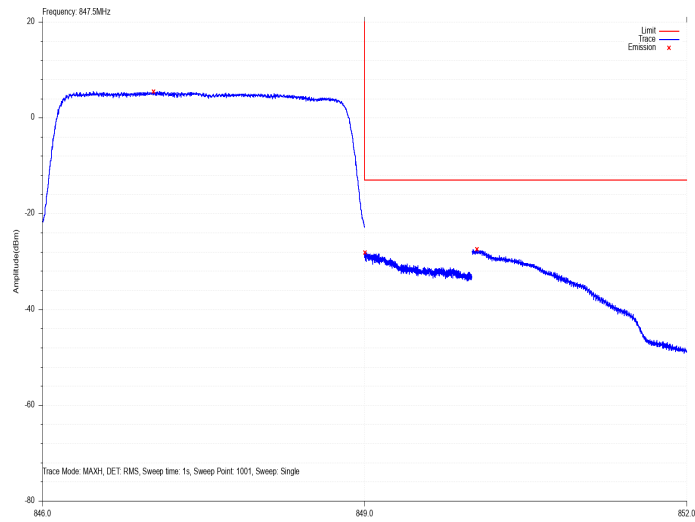
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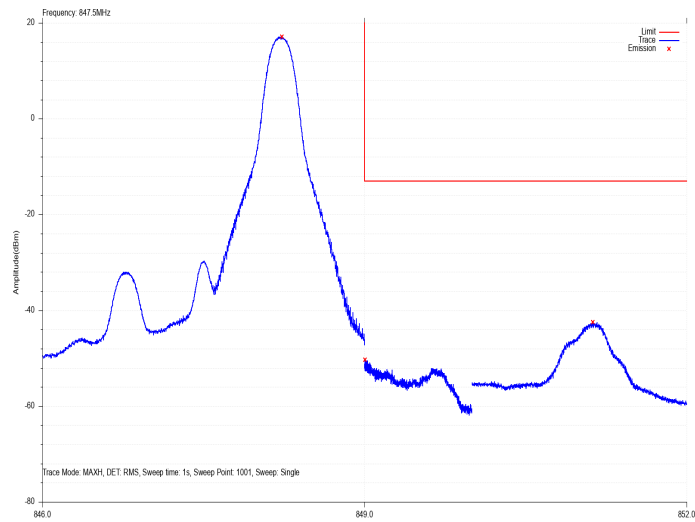
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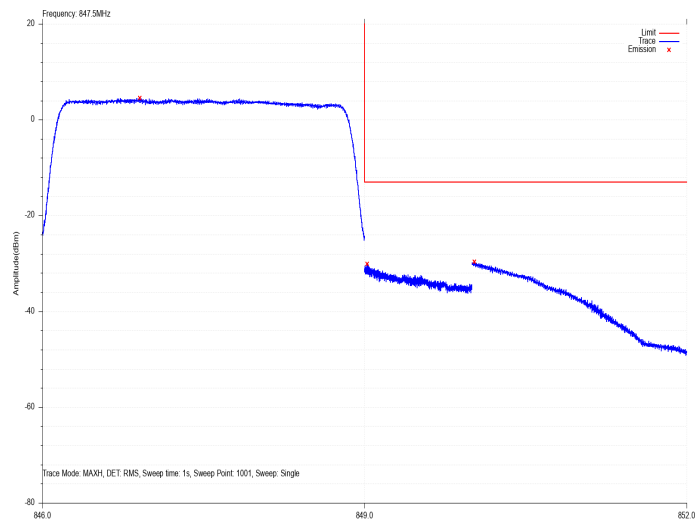
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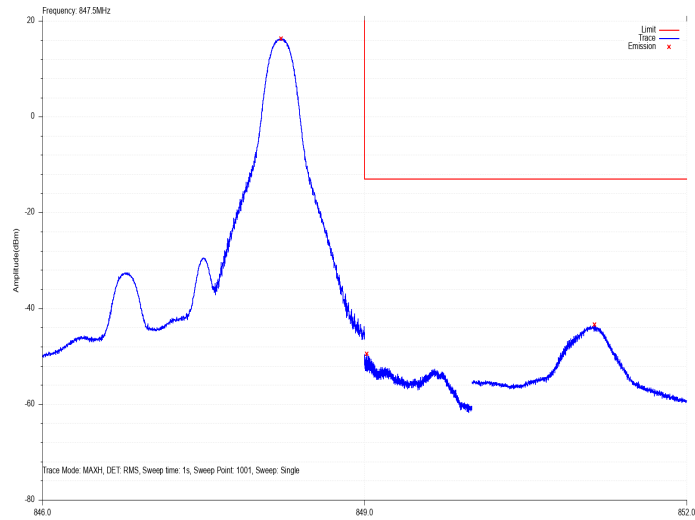
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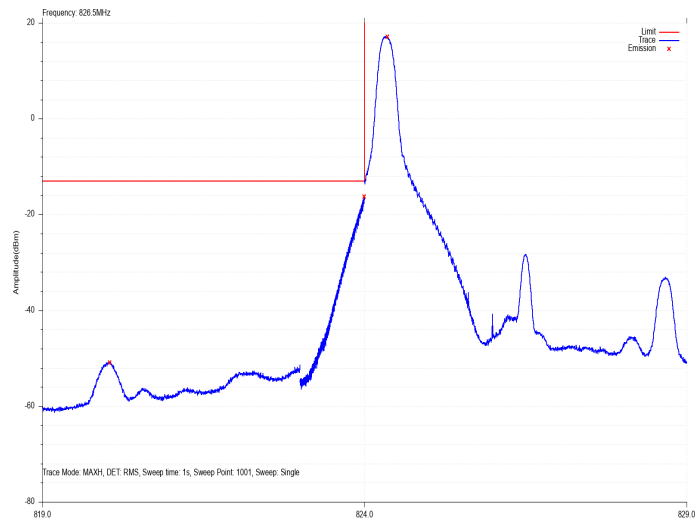
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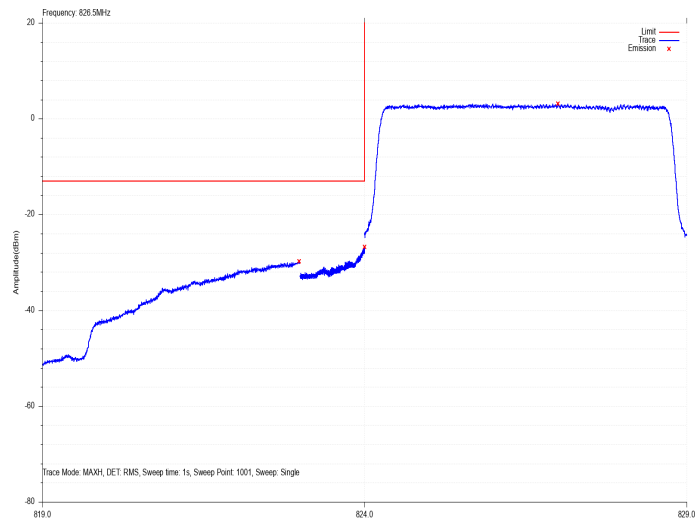
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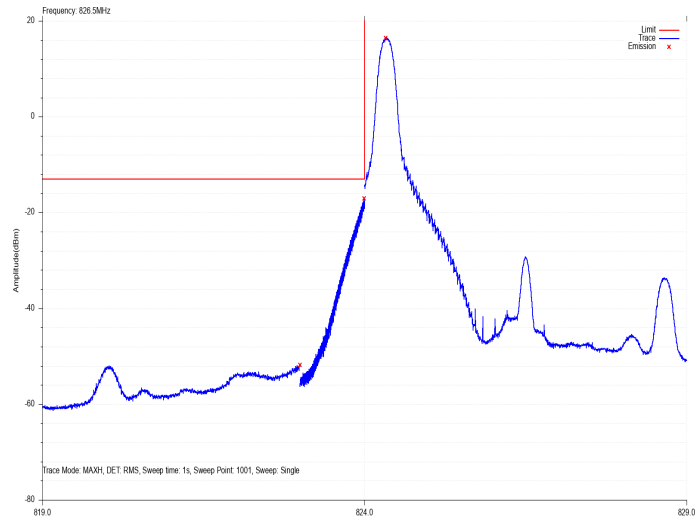
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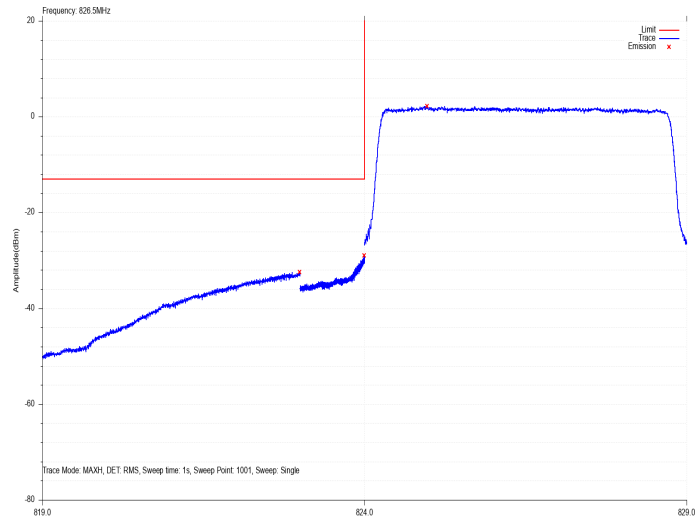
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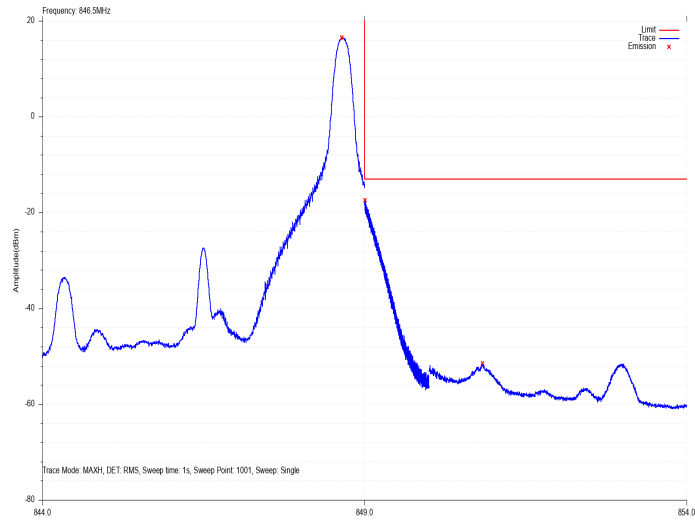
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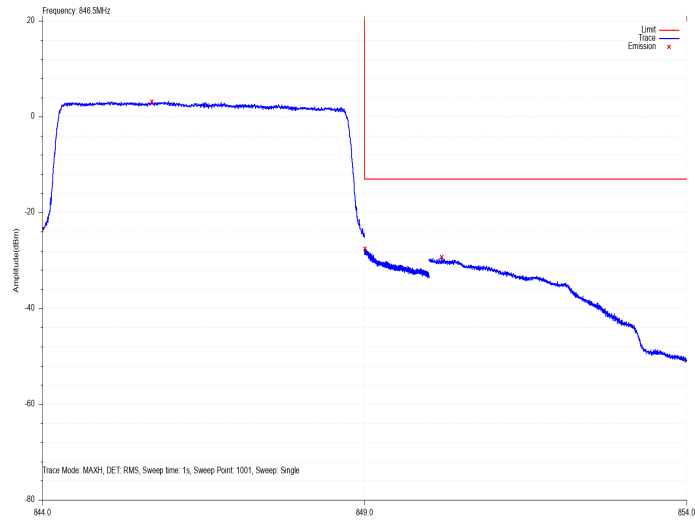
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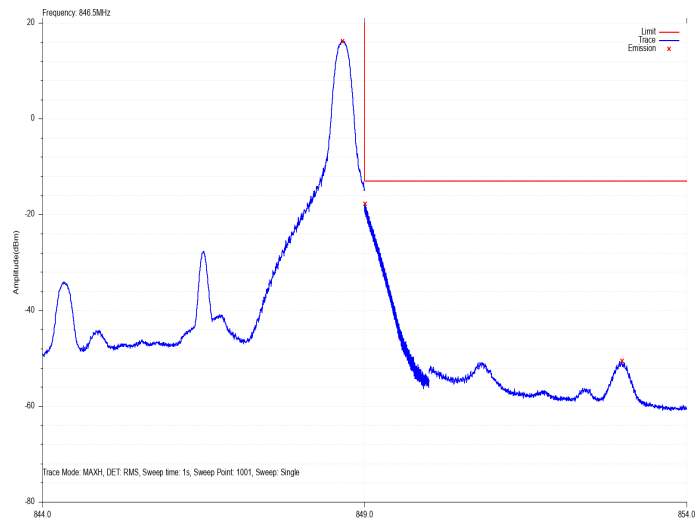
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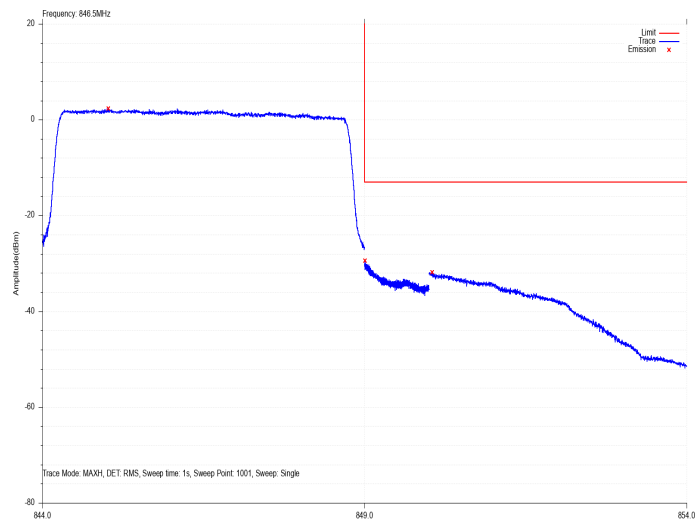
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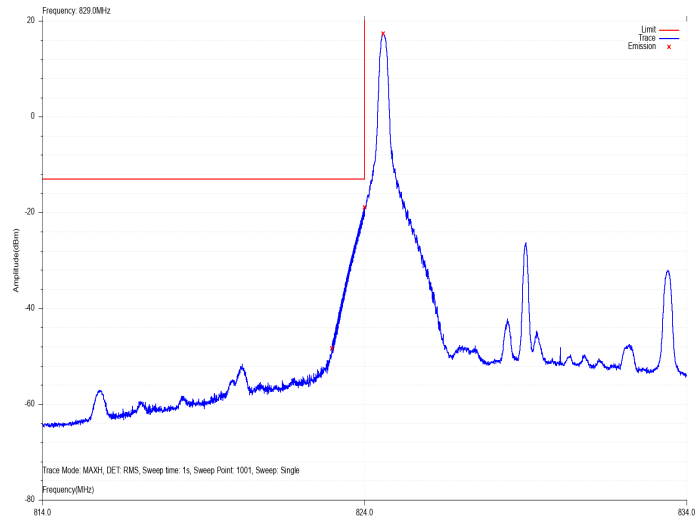
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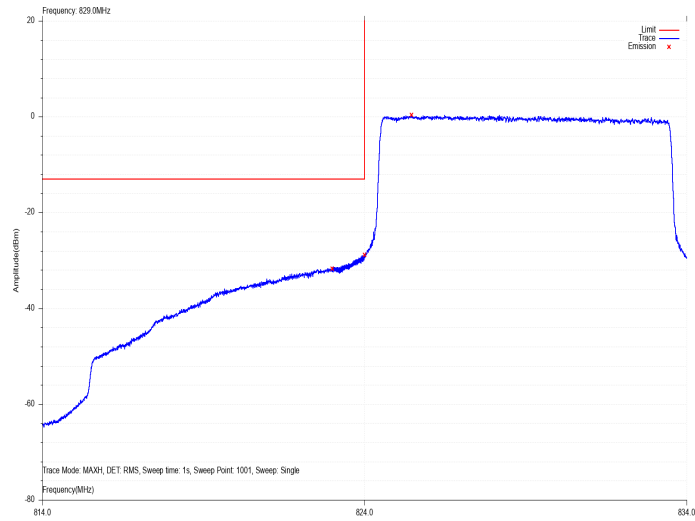
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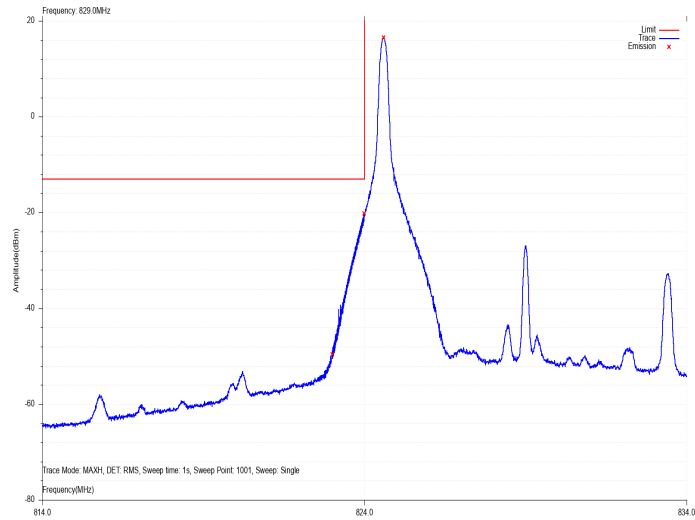
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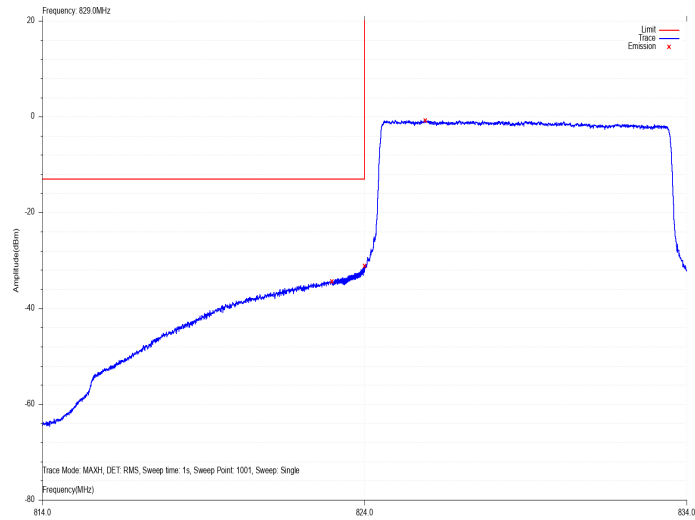
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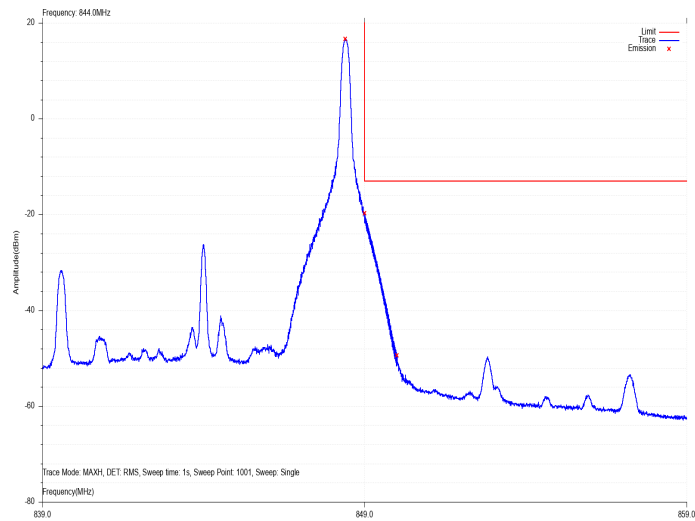
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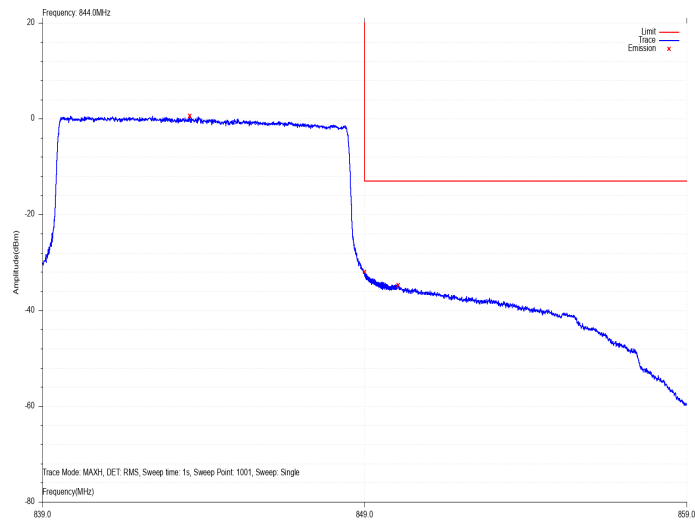
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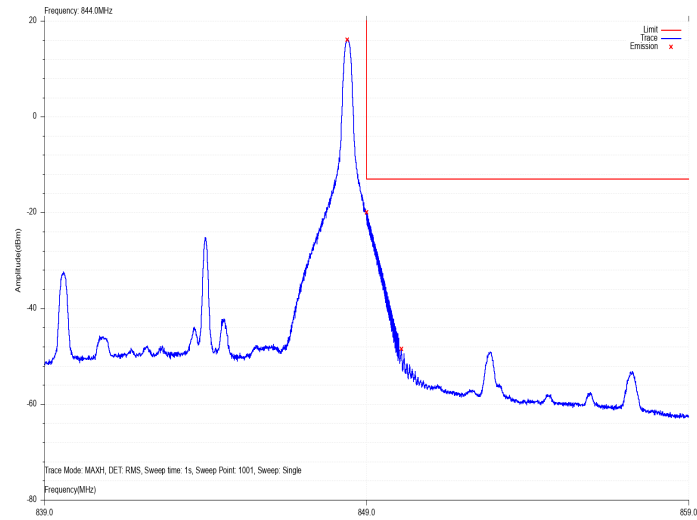
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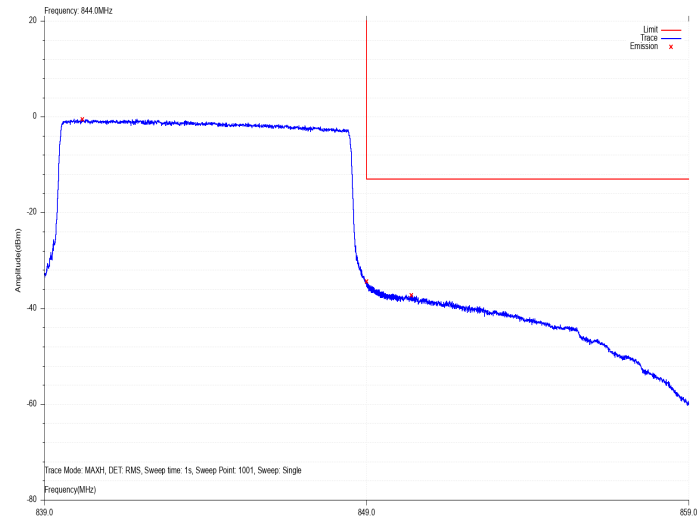
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UPPER_EDGE_Band 5_16QAM_10M_CH20600_1_49



UPPER_EDGE_Band 5_16QAM_10M_CH20600_50_0



4.6 Radiated Spurious Emission

Limit:	<p>1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10\log(P)$ dB</p> <p>2. The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out</p>
Test Procedure:	<ol style="list-style-type: none"> 1. For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80 cm above the reference ground plane. For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table or support at a nominal height of 1.5 m above the ground plane. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level. 2. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector. 3. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver 4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r). 5. The EUT shall be replaced by a substitution antenna. In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization. 6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (P_{cl}), the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test. The measurement results are obtained as described below: 7. Power(EIRP) Level= P_{Mea} (dBm)-Cable loss(dB) +Antenna Ga(dBi) This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

Test setup:						
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	DC 3.7V					
Test results:	Pass					

Remarks:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
2. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTEFDD Band 2;

Measurement Data:

LTE FDD Band 5_Channel Bandwidth 10MHz_QPSK_Low Channel

Frequency (MHz)	PMea (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Level (dBm)	Limit (dBm)	Margin	Polarization
1658.0	-32.62	2.15	9.80	-24.97	-13	-11.97	H
1658.0	-31.43	2.15	9.80	-23.78	-13	-10.78	V
2487.0	-32.90	3.21	10.90	-25.21	-13	-12.21	H
2487.0	-32.34	3.21	10.90	-24.65	-13	-11.65	V
186.40	-22.66	1.58	6.10	-18.14	-13	-5.14	H
275.10	-24.17	1.76	6.90	-19.03	-13	-6.03	V

LTE FDD Band 5_Channel Bandwidth 10MHz_QPSK_Mid Channel

Frequency (MHz)	PMea (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Measurement (dBm)	Limit (dBm)	Margin	Polarization
1673.0	-34.19	2.15	9.80	-26.54	-13	-13.54	H
1673.0	-32.78	2.15	9.80	-25.13	-13	-12.13	V
2509.5	-32.72	3.21	11.30	-24.63	-13	-11.63	H
2509.5	-33.28	3.21	11.30	-25.19	-13	-12.19	V
186.40	-23.39	1.58	6.10	-18.87	-13	-5.87	H
275.10	-24.12	1.76	6.90	-18.98	-13	-5.98	V

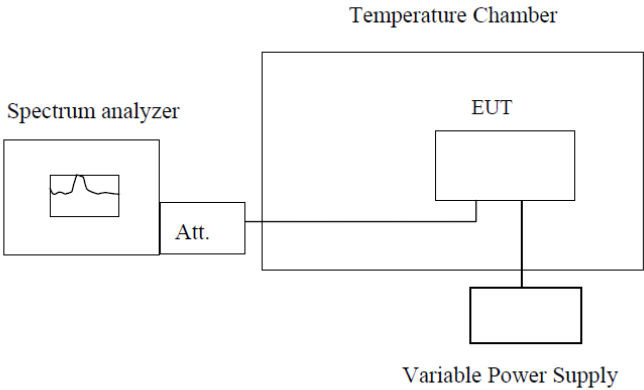
LTE FDD Band 5_Channel Bandwidth 10MHz_QPSK_High Channel

Frequency (MHz)	PMea (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Measurement (dBm)	Limit (dBm)	Margin	Polarization
1688.0	-32.01	2.15	9.80	-24.36	-13	-11.36	H
1688.0	-32.77	2.15	9.80	-25.12	-13	-12.12	V
2532.0	-32.56	3.21	11.70	-24.07	-13	-11.07	H
2532.0	-33.88	3.21	11.70	-25.39	-13	-12.39	V
186.40	-23.21	1.58	6.10	-18.69	-13	-5.69	H
275.10	-23.88	1.76	6.90	-18.74	-13	-5.74	V

Notes:

1. All channel bandwidth were tested, the report recorded the worst data.
2. $Level = SPMea (dBm) - Cable loss (dB) + Antenna Ga (dBi)$
4. $Margin = Level - Limit$
5. We measured all modes and only recorded the worst case.

4.7 Frequency stability

<p>Limit:</p>	<p>For FCC part 22.355: the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances 2.5ppm for mobile $\leq 3W$ condition.</p>
<p>Test Procedure:</p>	<p>Test Procedures for Temperature Variation:</p> <ol style="list-style-type: none"> 1, The EUT was set up in the thermal chamber and connected with the base station. 2, With power off, the temperature was decreased to $-30^{\circ}C$ and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute. 3, With power off, the temperature was raised in $10^{\circ}C$ set up to $50^{\circ}C$ and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute. 4, measure the carrier frequency error. <p>Test Procedures for Voltage Variation:</p> <ol style="list-style-type: none"> 1, The EUT was placed in a temperature chamber at $25\pm 5^{\circ}C$ and connected with the base station. 2, Reduce the primary supply voltage to the battery operating end point. 3, measure the carrier frequency error.
<p>Test setup:</p>	<div style="text-align: center;">  <p>The diagram shows a Spectrum analyzer on the left, connected to an Attenuator (Att.) box. The Attenuator is connected to the EUT (Equipment Under Test) inside a Temperature Chamber. The EUT is also connected to a Variable Power Supply box below it.</p> </div> <p>Note : Measurement setup for testing on Antenna connector</p>
<p>Test results:</p>	<p>Pass</p>

Measurement data:

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band5	1.4MHz	QPSK	20407	6RB#0	VN	NT	-13.40	-0.016248	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	VL	NT	-12.92	-0.015666	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	VH	NT	-11.99	-0.014539	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	VN	NT	-5.16	-0.006257	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	VL	NT	-5.55	-0.006730	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	VH	NT	3.96	0.004802	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VN	NT	-13.79	-0.016485	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VL	NT	-13.65	-0.016318	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VH	NT	-12.95	-0.015481	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VN	NT	-4.53	-0.005415	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VL	NT	-5.02	-0.006001	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VH	NT	-4.55	-0.005439	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	VN	NT	-12.47	-0.014700	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	VL	NT	-10.24	-0.012071	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	VH	NT	-10.70	-0.012613	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	VN	NT	-4.12	-0.004857	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	VL	NT	-3.03	-0.003572	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	VH	NT	-2.47	-0.002912	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	VN	NT	-4.41	-0.005342	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	VL	NT	-6.62	-0.008019	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	VH	NT	-3.98	-0.004821	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	VN	NT	5.62	0.006808	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	VL	NT	-2.42	-0.002932	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	VH	NT	-3.78	-0.004579	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VN	NT	2.30	0.002750	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VL	NT	4.26	0.005093	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VH	NT	-3.88	-0.004638	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VN	NT	4.29	0.005129	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VL	NT	4.28	0.005117	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VH	NT	2.06	0.002463	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	VN	NT	4.32	0.005097	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	VL	NT	-3.66	-0.004319	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	VH	NT	-4.78	-0.005640	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	VN	NT	3.39	0.004000	±2.5	PASS

Band5	3MHz	16QAM	20635	15RB#0	VL	NT	6.85	0.008083	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	VH	NT	3.99	0.004708	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	VN	NT	3.68	0.004453	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	VL	NT	-2.95	-0.003569	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	VH	NT	-4.75	-0.005747	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	VN	NT	-2.86	-0.003460	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	VL	NT	-1.39	-0.001682	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	VH	NT	-2.33	-0.002819	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VN	NT	-3.78	-0.004519	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VL	NT	1.60	0.001913	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VH	NT	3.26	0.003897	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VN	NT	-4.65	-0.005559	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VL	NT	-1.90	-0.002271	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VH	NT	-2.70	-0.003228	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	VN	NT	3.85	0.004548	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	VL	NT	3.81	0.004501	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	VH	NT	1.93	0.002280	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	VN	NT	6.90	0.008151	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	VL	NT	-4.25	-0.005021	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	VH	NT	7.14	0.008435	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-2.57	-0.003100	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-3.72	-0.004487	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-4.62	-0.005573	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	1.52	0.001834	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	2.62	0.003160	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-6.05	-0.007298	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	3.16	0.003778	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	2.29	0.002738	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-5.48	-0.006551	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-3.95	-0.004722	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	4.31	0.005152	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-5.95	-0.007113	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-4.88	-0.005782	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-3.48	-0.004123	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-3.76	-0.004455	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	2.57	0.003045	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	3.15	0.003732	±2.5	PASS

Band5	10MHz	16QAM	20600	50RB#0	VH	NT	4.22	0.005000	±2.5	PASS
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Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-30	-7.00	-0.008488	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-20	-7.50	-0.009094	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-10	-5.46	-0.006621	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	0	-3.81	-0.004620	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	10	-8.57	-0.010392	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	20	-4.03	-0.004887	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	30	-2.90	-0.003516	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	40	-4.41	-0.005347	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	50	-4.16	-0.005044	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-30	-3.83	-0.004644	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-20	-3.33	-0.004038	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-10	-3.13	-0.003795	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	0	-2.90	-0.003516	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	10	2.68	0.003250	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	20	-3.28	-0.003977	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	30	2.72	0.003298	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	40	-5.62	-0.006815	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	50	-3.38	-0.004098	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-30	-6.72	-0.008033	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-20	-5.72	-0.006838	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-10	-4.99	-0.005965	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	0	-6.72	-0.008033	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	10	-3.09	-0.003694	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	20	-5.14	-0.006145	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	30	-6.59	-0.007878	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	40	-4.21	-0.005033	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	50	-4.43	-0.005296	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-30	-2.93	-0.003503	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-20	4.35	0.005200	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-10	1.92	0.002295	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	0	1.83	0.002188	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	10	-2.73	-0.003264	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	20	-4.79	-0.005726	±2.5	PASS

Band5	1.4MHz	16QAM	20525	6RB#0	NV	30	-4.63	-0.005535	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	40	2.92	0.003491	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	50	-2.92	-0.003491	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-30	-8.08	-0.009525	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-20	-6.90	-0.008134	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-10	3.28	0.003867	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	0	-3.56	-0.004197	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	10	-3.96	-0.004668	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	20	-3.48	-0.004102	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	30	-7.54	-0.008888	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	40	-6.42	-0.007568	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	50	-3.42	-0.004032	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-30	-2.93	-0.003454	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-20	-3.86	-0.004550	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-10	-4.18	-0.004928	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	0	-4.15	-0.004892	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	10	-4.95	-0.005835	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	20	-3.42	-0.004032	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	30	-4.11	-0.004845	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	40	1.83	0.002157	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	50	-2.65	-0.003124	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-30	4.89	0.005924	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-20	-1.70	-0.002059	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-10	4.73	0.005730	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	0	-4.51	-0.005463	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	10	-3.52	-0.004264	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	20	-2.66	-0.003222	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	30	-4.26	-0.005161	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	40	-3.35	-0.004058	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	50	-4.52	-0.005475	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-30	2.95	0.003574	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-20	3.72	0.004506	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-10	5.78	0.007002	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	0	4.13	0.005003	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	10	-3.02	-0.003658	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	20	-2.80	-0.003392	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	30	-3.92	-0.004749	±2.5	PASS

Band5	3MHz	16QAM	20415	15RB#0	NV	40	-6.74	-0.008165	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	50	-5.58	-0.006760	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-30	-2.02	-0.002415	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-20	2.68	0.003204	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-10	-5.31	-0.006348	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	0	2.95	0.003527	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	10	-2.59	-0.003096	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	20	2.50	0.002989	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	30	3.15	0.003766	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	40	2.63	0.003144	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	50	-2.88	-0.003443	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-30	3.58	0.004280	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-20	4.89	0.005846	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-10	4.56	0.005451	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	0	-5.22	-0.006240	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	10	-3.81	-0.004555	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	20	7.41	0.008858	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	30	3.71	0.004435	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	40	4.68	0.005595	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	50	3.36	0.004017	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-30	-4.32	-0.005097	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-20	3.56	0.004201	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-10	4.94	0.005829	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	0	-4.79	-0.005652	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	10	3.86	0.004555	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	20	-4.12	-0.004861	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	30	-2.92	-0.003445	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	40	2.83	0.003339	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	50	-5.79	-0.006832	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-30	2.23	0.002631	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-20	2.85	0.003363	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-10	2.69	0.003174	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	0	5.66	0.006678	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	10	1.54	0.001817	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	20	4.49	0.005298	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	30	-3.22	-0.003799	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	40	4.31	0.005086	±2.5	PASS

Band5	3MHz	16QAM	20635	15RB#0	NV	50	-3.78	-0.004460	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-30	-3.92	-0.004743	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-20	3.35	0.004053	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-10	-4.35	-0.005263	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	0	3.43	0.004150	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	10	-3.95	-0.004779	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	20	-4.69	-0.005675	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	30	-4.25	-0.005142	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	40	-3.06	-0.003702	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	50	-2.26	-0.002734	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-30	-6.21	-0.007514	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-20	-2.90	-0.003509	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-10	-3.49	-0.004223	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	0	-4.95	-0.005989	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	10	3.76	0.004549	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	20	-2.27	-0.002747	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	30	-3.92	-0.004743	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	40	-3.93	-0.004755	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	50	-2.57	-0.003109	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-30	2.76	0.003299	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-20	7.48	0.008942	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-10	9.71	0.011608	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	0	5.91	0.007065	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	10	5.58	0.006671	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	20	5.16	0.006169	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	30	5.84	0.006981	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	40	8.00	0.009564	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	50	8.51	0.010173	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-30	9.01	0.010771	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-20	-3.60	-0.004304	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-10	4.29	0.005129	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	0	-2.85	-0.003407	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	10	-3.25	-0.003885	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	20	-3.73	-0.004459	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	30	-5.75	-0.006874	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	40	7.60	0.009085	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	50	3.35	0.004005	±2.5	PASS

Band5	5MHz	QPSK	20625	25RB#0	NV	-30	2.60	0.003071	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-20	3.13	0.003698	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-10	4.28	0.005056	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	0	1.27	0.001500	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	10	3.91	0.004619	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	20	-2.98	-0.003520	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	30	1.69	0.001996	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	40	-1.62	-0.001914	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	50	4.36	0.005151	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-30	-3.91	-0.004619	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-20	-2.60	-0.003071	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-10	-4.39	-0.005186	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	0	2.56	0.003024	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	10	2.57	0.003036	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	20	4.31	0.005092	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	30	-5.26	-0.006214	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	40	-2.95	-0.003485	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	50	-4.42	-0.005222	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-3.45	-0.004162	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-3.45	-0.004162	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-2.02	-0.002437	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-4.41	-0.005320	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-1.90	-0.002292	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	3.96	0.004777	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	18.15	0.021894	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-3.50	-0.004222	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-6.05	-0.007298	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-3.25	-0.003920	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-5.59	-0.006743	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-10	4.53	0.005464	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	6.22	0.007503	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-4.52	-0.005452	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	3.66	0.004415	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	2.88	0.003474	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-1.49	-0.001797	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	4.35	0.005247	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	2.45	0.002929	±2.5	PASS

Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-1.37	-0.001638	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	3.63	0.004340	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	3.95	0.004722	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	2.62	0.003132	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	3.91	0.004674	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	2.55	0.003048	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-2.89	-0.003455	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	3.78	0.004519	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	2.29	0.002738	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-4.19	-0.005009	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-10	1.76	0.002104	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-2.37	-0.002833	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-7.47	-0.008930	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-3.68	-0.004399	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	3.09	0.003694	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	2.39	0.002857	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	2.95	0.003527	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-6.14	-0.007275	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-3.35	-0.003969	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	-5.97	-0.007073	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-3.99	-0.004727	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-2.90	-0.003436	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	2.75	0.003258	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-3.58	-0.004242	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-1.90	-0.002251	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	3.48	0.004123	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-3.52	-0.004171	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-3.32	-0.003934	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-10	2.88	0.003412	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	1.93	0.002287	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-2.35	-0.002784	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-1.87	-0.002216	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-5.51	-0.006528	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-4.21	-0.004988	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-4.28	-0.005071	±2.5	PASS

Note:

1. Normal Voltage = 3.7V; Low Voltage= 3.33V; High Voltage=4.07V
2. All modes of EUT have been tested; only the data of worst case mode is reported.



5 Test Setup Photo

Reference to the **appendix I** for details.

6 EUT Constructional Details

Reference to the **appendix II** for details.

---END---