CFR 47 FCC PART 02
CFR 47 FCC PART 22 H
CFR 47 FCC PART 24 E
CFR 47 FCC PART 27
CFR 47 FCC PART 90S

TEST REPORT

For

Smart POS

MODEL NUMBER: D60

FCC ID: 2AGQ6-D60

REPORT NUMBER: 4790950508-1-RF-8

ISSUE DATE: October 22, 2023

Prepared for

Dspread Technology (Beijing) Inc
Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road, Chaoyang District, Beijing, 100015, China

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	October 22, 2023	Initial Issue	\

Note:
1.This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
2. The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 22 H >< CFR 47 FCC PART 24 E>< CFR 47 FCC PART 27 >< CFR 47 FCC PART 90S > when < Simple Acceptance > decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	Dspread Technology (Beijing) Inc
Address:	Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road, Chaoyang District, Beijing, 100015, China

Manufacturer Information

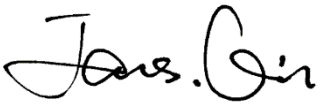
Company Name:	Dspread Technology (Beijing) Inc
Address:	Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road, Chaoyang District, Beijing, 100015, China

EUT Information

EUT Name:	Smart POS
Model:	D60
Sample Received Date:	August 2, 2023
Sample Status:	Normal
Sample ID:	6327587
Date of Tested:	August 12, 2023 to October 12, 2023

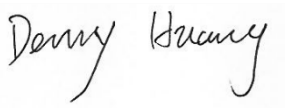
APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 FCC PART 22 H	PASS
CFR 47 FCC PART 24 E	PASS
CFR 47 FCC PART 27	PASS
CFR 47 FCC PART 90S	PASS

Prepared By:



James Qin
Project Engineer

Checked By:



Denny Huang
Senior Project Engineer

Approved By:

Stephen Guo
Operations Manager

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.26-2015, 971168 D01 Power Meas License Digital Systems v03r01, 971168 D02 Misc Rev Approv License Devices v02r01, 412172 D01 v01r01 Determining ERP and EIRP, CFR 47 FCC Part 2, Part 22 H, Part 24 E, Part 27, Part 90S.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. **VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 40 GHz)	5.78 dB (1 GHz-18 GHz)
	5.23dB (18 GHz-26 GHz)
	5.64 dB (26 GHz-40 GHz)
Bandwidth	1.1 %
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Smart POS
Model	D60

5.2. TEST CHANNEL CONFIGURATION

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 2	Low Range	1.4	18607	1850.7	607	1930.7
		3	18615	1851.5	615	1931.5
		5	18625	1852.5	625	1932.5
		10	18650	1855	650	1935
		15	18675	1857.5	675	1937.5
		20	18700	1860	700	1940
	Mid Range	1.4/3/5/10/15/20	18900	1880	900	1960
	High Range	1.4	19193	1909.3	1193	1989.3
		3	19185	1908.5	1185	1988.5
		5	19175	1907.5	1175	1987.5
		10	19150	1905	1150	1985
		15	19125	1902.5	1125	1982.5
		20	19100	1900	1100	1980

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 4	Low Range	1.4	19957	1710.7	1957	2110.7
		3	19965	1711.5	1965	2111.5
		5	19975	1712.5	1975	2112.5
		10	20000	1715	2000	2115
		15	20025	1717.5	2025	2117.5
		20	20050	1720	2050	2120
	Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
	High Range	1.4	20393	1754.3	2393	2154.3
		3	20385	1753.5	2385	2153.5
		5	20375	1752.5	2375	2152.5
		10	20350	1750	2350	2150
		15	20325	1747.5	2325	2147.5
		20	20300	1745	2300	2145

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 5	Low Range	1.4	20407	824.7	2407	869.7
		3	20415	825.5	2415	870.5
		5	20425	826.5	2425	871.5
		10	20450	829	2450	874
	Mid Range	1.4/3/5/10	20525	836.5	2525	881.5
	High Range	1.4	20643	848.3	2643	893.3
		3	20635	847.5	2635	892.5
		5	20625	846.5	2625	891.5
		10	20600	844	2600	889

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 7	Low Range	5	20775	2502.5	2775	2622.5
		10	20800	2505	2800	2625
		15	20825	2507.5	2825	2627.5
		20	20850	2510	2850	2630
	Mid Range	5/10/15/20	21100	2535	3100	2655
	High Range	5	21425	2567.5	3425	2687.5
		10	21400	2565	3400	2685
		15	21375	2562.5	3375	2682.5
		20	21350	2560	3350	2680

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 12	Low Range	1.4	23017	699.7	5017	729.7
		3	23025	700.5	5025	730.5
		5	23035	701.5	5035	731.5
		10	23060	704	5060	734
	Mid Range	1.4/3/5 /10	23095	707.5	5095	737.5
	High Range	1.4	23173	715.3	5173	745.3
		3	23165	714.5	5165	744.5
		5	23155	713.5	5155	743.5
		10	23130	711	5130	741

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 17	Low Range	5	23755	706.5	5755	736.5
		10	23780	709	5780	739
	Mid Range	5 /10	23790	710	5790	740
	High Range	5	23825	713.5	5825	743.5
		10	23800	711	5800	741

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 25	Low Range	1.4	26047	1850.7	8047	1930.7
		3	26055	1851.5	8055	1931.5
		5	26065	1852.5	8065	1932.5
		10	26090	1855	8090	1935
		15	26115	1857.5	8115	1937.5
		20	26140	1860	8140	1940
	Mid Range	1.4/3/5/10/15/20	26365	1882,5	8365	1962.5
	High Range	1.4	26683	1914.3	8683	1994.3
		3	26675	1913.5	8675	1993.5
		5	26665	1912.5	8665	1992.5
		10	26640	1910	8640	1990
		15	26615	1907.5	8615	1987.5
		20	26590	1905	8590	1985

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 26	Low Range	1.4	26697	814.7	8697	859.7
		3	26705	815.5	8705	860.5
		5	26715	816.5	8715	861.5
		10	26740	819	8740	864
		15	26765	821.5	8765	866.5
	Mid Range	1.4/3/5/10/15	26865	831.5	8865	876.5
	High Range	1.4	27033	848.3	9033	893.3
		3	27025	847.5	9025	892.5
		5	27015	846.5	9015	891.5
		10	26990	844	8990	889
		15	26965	841.5	8965	886.5

Band	Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
Band 38	Low Range	5	37775	2572.5
		10	37800	2575
		15	37825	2577.5
		20	37850	2580
	Mid Range	5/10/15/20	38000	2595
	High Range	5	38225	2617.5
		10	38200	2615
		15	38175	2612.5
		20	38150	2610

Band	Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
Band 41	Low Range	5	39675	2498.5
		10	39700	2501
		15	39725	2503.5
		20	39750	2506
	Mid Range	5/10/15/20	40620	2593
	High Range	5	41565	2687.5
		10	41540	2685
		15	41515	2682.5
		20	41490	2680

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 66	Low Range	1.4	131979	1710.7	66443	2110.7
		3	131987	1711.5	66451	2111.5
		5	131997	1712.5	66461	2112.5
		10	132022	1715	66486	2115
		15	132047	1717.5	66511	2117.5
		20	132072	1720	66536	2120
	Mid Range Tx[1]	1.4/3/5/10/15/20	132322	1745	66786	2145
	Mid Range	1.4/3/5/10/15/20	132422	1755	66886	2155
	Paired High Range[2]	1.4	132665	1779.3	67129	2179.3
		3	132657	1778.5	67121	2178.5
		5	132647	1777.5	67111	2177.5
		10	132622	1775	67086	2175
		15	132597	1772.5	67061	2172.5
		20	132572	1770	67036	2170
	High Range[3]	1.4	NA	NA	67329	2199.3
		3	NA	NA	67321	2198.5
		5	NA	NA	67311	2197.5
		10	NA	NA	67286	2195
		15	NA	NA	67261	2192.5
		20	NA	NA	67236	2190

Note 1: Applicable for transmitter testing.
Note 2: Applicable if UL is configured on the CC.
Note 3: Applicable if no UL is configured on the CC.

5.3. MAXIMUM AVERAGE OUTPUT POWER

LTE Band 2

Part 24	
EIRP Limit(W)	2.0
Antenna Gain (dBi)	1.19

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1850.7	1909.3	21.58	0.189	1.082	1M08G7W
	16QAM			20.94	0.163	1.081	1M08D7W
3	QPSK	1851.5	1908.5	21.66	0.193	2.680	2M68G7W
	16QAM			20.72	0.155	2.680	2M68D7W
5	QPSK	1852.5	1907.5	21.47	0.185	4.482	4M48G7W
	16QAM			20.66	0.153	4.479	4M48D7W
10	QPSK	1855.0	1905.0	21.63	0.191	8.952	8M95G7W
	16QAM			20.93	0.163	8.953	8M95D7W
15	QPSK	1857.5	1902.5	21.68	0.194	13.431	13M4G7W
	16QAM			20.89	0.161	13.429	13M4D7W
20	QPSK	1860.0	1900.0	21.86	0.202	17.971	18M0G7W
	16QAM			21.08	0.169	17.972	18M0D7W

LTE Band 4

Part 27	
EIRP Limit(W)	1.0
Antenna Gain (dBi)	0.53

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1710.7	1754.3	22.45	0.199	1.087	1M09G7W
	16QAM			21.21	0.149	1.086	1M09D7W
3	QPSK	1711.5	1753.5	22.30	0.192	2.688	2M69G7W
	16QAM			21.18	0.148	2.689	2M69D7W
5	QPSK	1712.5	1752.5	22.33	0.193	4.497	4M50G7W
	16QAM			21.38	0.155	4.509	4M51D7W
10	QPSK	1715	1750	22.24	0.189	8.981	8M98G7W
	16QAM			21.16	0.148	8.977	8M98D7W
15	QPSK	1717.5	1747.5	22.23	0.189	13.483	13M5G7W
	16QAM			21.10	0.146	13.469	13M5D7W
20	QPSK	1720	1745	22.45	0.199	18.003	18M0G7W
	16QAM			21.49	0.159	18.023	18M0D7W

LTE Band 5

Part 22H	
ERP Limit(W)	7.0
Antenna Gain (dBi)	-0.23

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	824.7	848.3	22.66	0.107	1.087	1M09G7W
	16QAM			21.94	0.090	1.086	1M09D7W
3	QPSK	825.5	847.5	22.68	0.107	2.688	2M69G7W
	16QAM			21.97	0.091	2.686	2M69D7W
5	QPSK	826.5	846.5	22.62	0.106	4.498	4M50G7W
	16QAM			21.97	0.091	4.504	4M50D7W
10	QPSK	829	844	22.91	0.113	8.984	8M98G7W
	16QAM			22.23	0.097	8.967	8M97D7W

LTE Band 7

Part 27	
EIRP Limit(W)	2.0
Antenna Gain (dBi)	2.02

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	2502.5	2567.5	21.16	0.208	4.494	4M49G7W
	16QAM			20.17	0.166	4.505	4M51D7W
10	QPSK	2505	2565	21.14	0.207	8.988	8M99G7W
	16QAM			20.04	0.161	8.977	8M98D7W
15	QPSK	2507.5	2562.5	21.12	0.206	13.481	13M5G7W
	16QAM			20.00	0.159	13.474	13M5D7W
20	QPSK	2510	2560	21.39	0.219	18.020	18M0G7W
	16QAM			20.38	0.174	18.022	18M0D7W

LTE Band 12

Part 27	
ERP Limit(W)	3.0
Antenna Gain (dBi)	-1.87

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	699.7	715.3	22.41	0.069	1.086	1M09G7W
	16QAM			21.59	0.057	1.085	1M09D7W
3	QPSK	700.5	714.5	22.52	0.071	2.687	2M69G7W
	16QAM			21.66	0.058	2.690	2M69D7W
5	QPSK	701.5	713.5	22.52	0.071	4.502	4M50G7W
	16QAM			21.58	0.057	4.512	4M50D7W
10	QPSK	704.0	711.0	22.67	0.073	8.991	9M00G7W
	16QAM			21.81	0.060	8.981	8M98D7W

LTE Band 17

Part 27	
ERP Limit(W)	3.0
Antenna Gain (dBi)	-1.87

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	706.5	713.5	22.50	0.070	4.499	4M50G7W
	16QAM			21.70	0.059	4.504	4M50D7W
10	QPSK	709.0	711.0	22.62	0.072	8.967	8M97G7W
	16QAM			21.85	0.061	8.961	8M96D7W

LTE Band 25

Part 24	
EIRP Limit(W)	2.0
Antenna Gain (dBi)	1.19

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1850.7	1914.3	21.88	0.203	1.093	1M09G7W
	16QAM			20.69	0.154	1.088	1M09D7W
3	QPSK	1851.5	1913.5	21.80	0.199	2.686	2M69G7W
	16QAM			20.73	0.156	2.686	2M69D7W
5	QPSK	1852.5	1912.5	21.83	0.200	4.492	4M50G7W
	16QAM			20.86	0.160	4.502	4M50D7W
10	QPSK	1855	1910	21.85	0.201	8.973	8M97G7W
	16QAM			20.66	0.153	8.956	8M96D7W
15	QPSK	1857.5	1907.5	21.76	0.197	13.451	13M5G7W
	16QAM			20.77	0.157	13.451	13M5D7W
20	QPSK	1860	1905	22.04	0.210	18.012	18M0G7W
	16QAM			21.05	0.167	17.995	18M0D7W

LTE Band 26

Part 22	
ERP Limit(W)	7.0
Antenna Gain (dBi)	-0.23

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	824.7	848.3	22.64	0.106	1.087	1M09G7W
	16QAM			22.04	0.092	1.086	1M09D7W
3	QPSK	825.5	847.5	22.64	0.106	2.691	2M69G7W
	16QAM			22.03	0.092	2.686	2M69D7W
5	QPSK	826.5	846.5	22.67	0.107	4.494	4M49G7W
	16QAM			22.03	0.092	4.502	4M50D7W
10	QPSK	829	844	22.57	0.104	8.983	8M98G7W
	16QAM			21.86	0.089	8.972	8M97D7W
15	QPSK	831.5	841.5	22.85	0.111	13.478	13M5G7W
	16QAM			22.15	0.095	13.467	13M5D7W

LTE Band 26

Part 90S	
ERP Limit(W)	100.0
Antenna Gain (dBi)	-0.23

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	814.7	823.3	22.64	0.106	1.088	1M09G7W
	16QAM			22.04	0.092	1.087	1M09D7W
3	QPSK	815.5	822.5	22.64	0.106	2.690	2M69G7W
	16QAM			22.03	0.092	2.685	2M69D7W
5	QPSK	816.5	821.5	22.67	0.107	4.494	4M49G7W
	16QAM			22.03	0.092	4.509	4M50D7W
10	QPSK	819	819	22.57	0.104	8.972	8M97G7W
	16QAM			21.86	0.089	8.963	8M96D7W

LTE Band 38

Part 27	
EIRP Limit(W)	2.0
Antenna Gain (dBi)	2.2

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	2572.5	2617.5	21.54	0.237	4.494	4M49G7W
	16QAM			20.72	0.196	4.505	4M50D7W
10	QPSK	2575	2615	21.50	0.234	8.988	8M99G7W
	16QAM			20.85	0.202	8.977	8M98D7W
15	QPSK	2577.5	2612.5	21.63	0.242	13.481	13M5G7W
	16QAM			20.72	0.196	13.474	13M5D7W
20	QPSK	2580	2610	21.78	0.250	18.020	18M0G7W
	16QAM			20.99	0.208	18.022	18M0D7W

LTE Band 41

Part 27	
EIRP Limit(W)	2.0
Antenna Gain (dBi)	2.41

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	2498.5	2687.5	21.67	0.256	4.499	4M50G7W
	16QAM			20.73	0.206	4.484	4M48D7W
10	QPSK	2501	2685	21.85	0.267	8.960	8M96G7W
	16QAM			20.83	0.211	8.972	8M97D7W
15	QPSK	2503.5	2682.5	21.67	0.256	13.453	13M5G7W
	16QAM			20.72	0.206	13.452	13M5D7W
20	QPSK	2506	2680	21.99	0.275	18.003	18M0G7W
	16QAM			20.94	0.216	17.988	18M0D7W

LTE Band 66

Part 27	
EIRP Limit(W)	1.0
Antenna Gain (dBi)	0.53

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1710.7	1779.3	21.95	0.177	1.084	1M08G7W
	16QAM			21.24	0.150	1.085	1M09D7W
3	QPSK	1711.5	1778.5	22.09	0.183	2.688	2M69G7W
	16QAM			21.04	0.144	2.687	2M69D7W
5	QPSK	1712.5	1777.5	22.05	0.181	4.491	4M49G7W
	16QAM			21.25	0.151	4.502	4M50D7W
10	QPSK	1715	1775	22.19	0.187	8.976	8M98G7W
	16QAM			21.27	0.151	8.968	8M97D7W
15	QPSK	1717.5	1772.5	22.09	0.183	13.454	13M5G7W
	16QAM			21.30	0.152	13.458	13M5D7W
20	QPSK	1720	1770	22.32	0.193	18.009	18M0G7W
	16QAM			21.42	0.157	18.005	18M0D7W

5.4. WORST-CASE CONFIGURATION AND MODE

During all testing, EUT is in link mode with base station emulator at maximum power level. The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM. All testing was performed using QPSK and 16QAM modulations to represent the worst case.

The radiated spurious emissions measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT was investigated in three orthogonal orientations X,Y and Z. It was determined that X orientation was the worst-case.

Radiated spurious emissions were investigated below 30 MHz, 30 MHz - 1 GHz and above 1 GHz. There are no emissions found on below 1GHz and above 18 GHz, the emissions between 1 GHz – 18 GHz are tested ate the low, mid, high channel and the worse configuration.

Test Items	Worst case test configuration			
Description	Modulation	Channel	Bandwidth (MHz)	RB Configuration
Radiated Spurious Emissions	QPSK	L, M, H	Maximum BW	RB size=1, RB Location= Low

5.5. DESCRIPTION OF AVAILABLE ANTENNAS

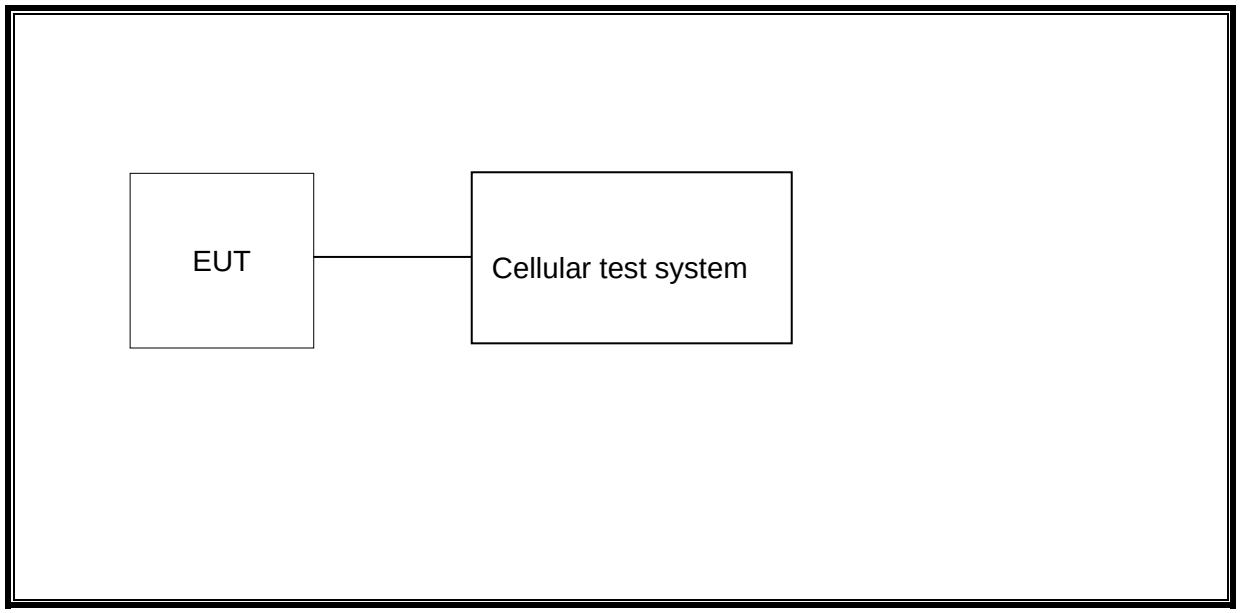
Antenna	Band	Antenna Type	MAX Antenna Gain (dBi)
Main	LTE Band 2	FPC	1.19
Main	LTE Band 4	FPC	0.53
Main	LTE Band 5	FPC	-0.23
Main	LTE Band 7	FPC	2.02
Main	LTE Band 12	FPC	-1.87
Main	LTE Band 17	FPC	-1.87
Main	LTE Band 25	FPC	1.19
Main	LTE Band 26	FPC	-0.23
Main	LTE Band 38	FPC	2.2
Main	LTE Band 41	FPC	2.41
Main	LTE Band 66	FPC	0.53

Band	Transmit and Receive Mode	Description
LTE Band 2	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 4	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 5	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 7	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 12	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 17	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 25	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 26	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 38	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 41	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 66	☒1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna

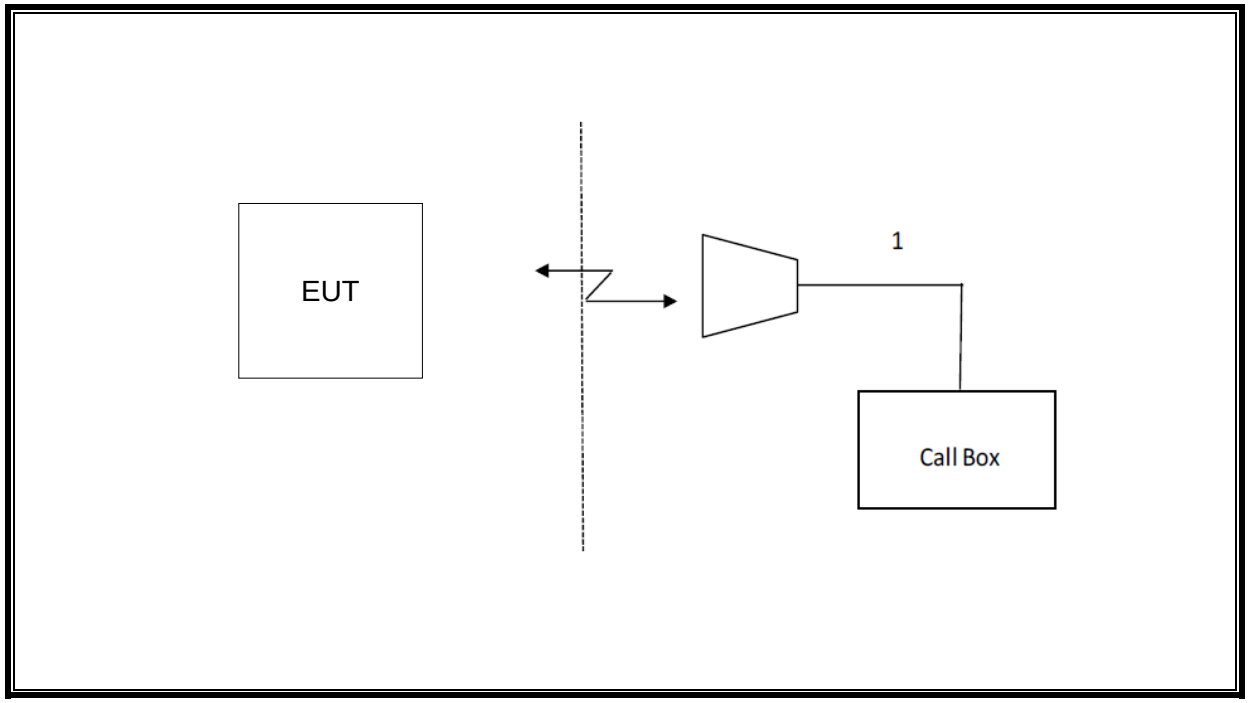
Note: The value of the antenna gain was declared by customer.

5.6. DESCRIPTION OF TEST SETUP

Conducted



Radiated



6. MEASURING INSTRUMENT AND SOFTWARE USED

Antenna Terminal Test						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☑	Spectrum Analyzer	R&S	FSV40	S422060001	Oct.17, 2022	Oct.16, 2023
☑	Wideband Radio Communication Tester	R&S	CMW500	155523	Oct.17, 2022	Oct.16, 2023
☑	DC Power Supply	Array	3662A	A1512015	Oct.17, 2022	Oct.16, 2023
Software						
Used	Description		Manufacturer	Name		Version
☑	Tonsend Cellular Test System		Tonsend	JS1120 RF Auto Test System		3.1.46
Radiated Test						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☑	MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.17, 2022	Oct.16, 2023
☑	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
☑	Preamplifier	HP	8447D	2944A09099	Oct.17, 2022	Oct.16, 2023
☑	EMI Measurement Receiver	R&S	ESR26	101377	Oct.17, 2022	Oct.16, 2023
☑	Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
☑	Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
☑	Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct.17, 2022	Oct.16, 2023
☑	Preamplifier	TDK	PA-02-2	TRS-307-00003	Oct.17, 2022	Oct.16, 2023
☑	Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024
☑	High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Oct.17, 2022	Oct.16, 2023
Software						
Used	Description		Manufacturer	Name		Version
☑	Test Software for Radiated disturbance		Farad	EZ-EMC		Ver. UL-3A1

7. ANTENNA TERMINAL TEST RESULTS

7.1. EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.50

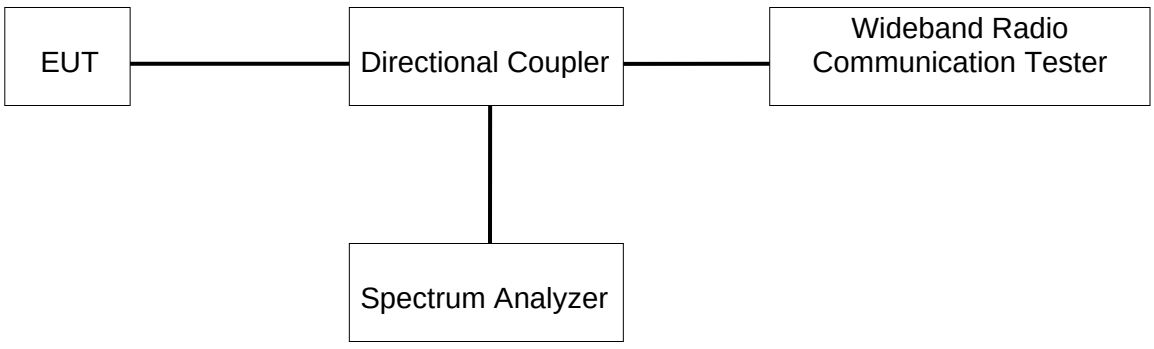
LIMITS

22.913(a) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.
24.232(c) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.
27.50(c) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.
27.50(d) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watts EIRP.
27.50(h) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.
In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

TEST PROCEDURE

Refer to ANSI C63.26:2015 and KDB 971168 D01 Section 5.6
ERP/ EIRP = PMeas + GT − LC
where:
ERP or EIRP = effective or equivalent isotropically radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);
PMeas = measured transmitter output power or PSD, in dBm or dBW;
GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB
The transmitter has a maximum radiated ERP / EIRP output powers as follows:

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4°C	Relative Humidity	57.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

RESULTS

Please refer to Appendix A.

7.2. PEAK TO AVERAGE RADIO

LIMITS

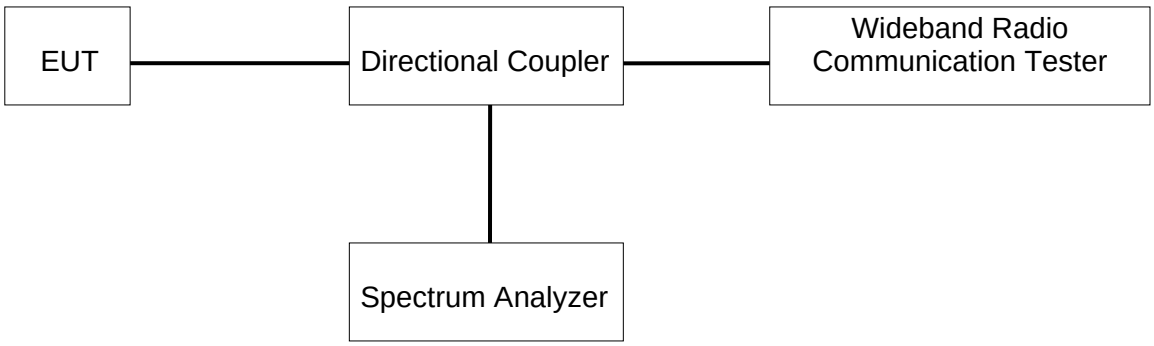
In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The PAR was measured on the Spectrum Analyzer.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4°C	Relative Humidity	57.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

RESULTS

Middle was used to measure as the worst case. The results from all CCDF plots are passed with 13dB peak-to-average power ratio criteria.

Please refer to Appendix B.

7.3. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

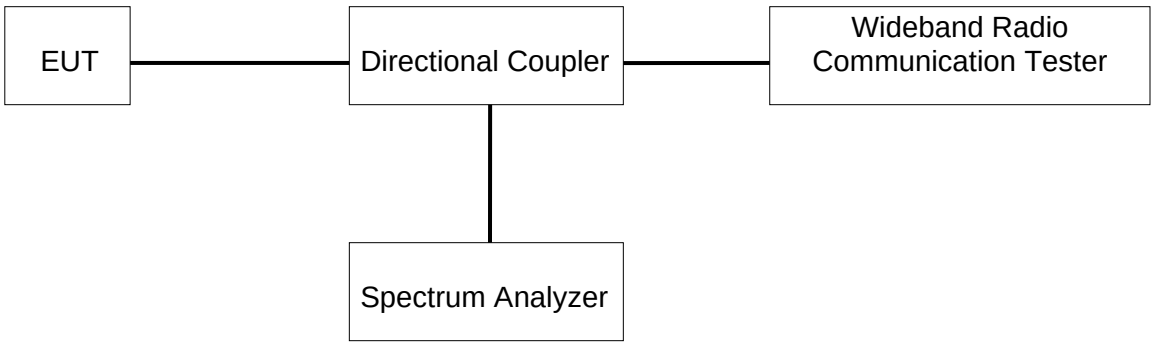
For reporting purposes only.

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

(Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01)

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4°C	Relative Humidity	57.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

RESULTS

There is no limit required and power is the same for low, middle and high channel, therefore, only middle channel was tested.

Please refer to Appendix C.

7.4. BAND EDGE EMISSIONS

RULE PART(S)

FCC §2.1051, §22.917, §24.238, §27.53

LIMITS

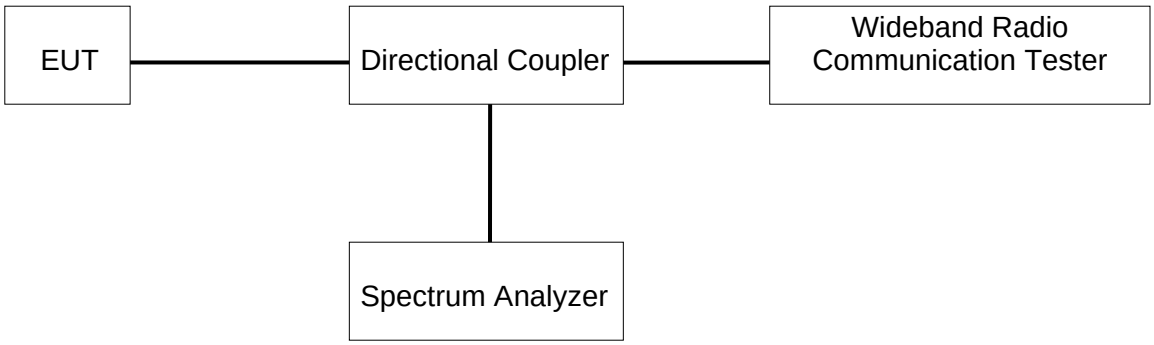
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01
The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power.
The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

a) Set the RBW = 1 ~ 1.5 % of OBW (Typically limited to a minimum RBW of 1% of the OBW)
b) Set VBW ≥ 3 × RBW;
c) Set span ≥ 1.5 times the OBW;
d) Sweep time = Auto;
e) Detector = RMS;
f) Ensure that the number of measurement points ≥ 2*Span/RBW;
g) Trace mode = Average (100);

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4°C	Relative Humidity	57.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

RESULTS

Please refer to Appendix D.

7.5. SPURIOUS EMISSION AT ANTENNA TERMINAL

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53

LIMITS

FCC: §22.901, §22.917, §24.238
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.

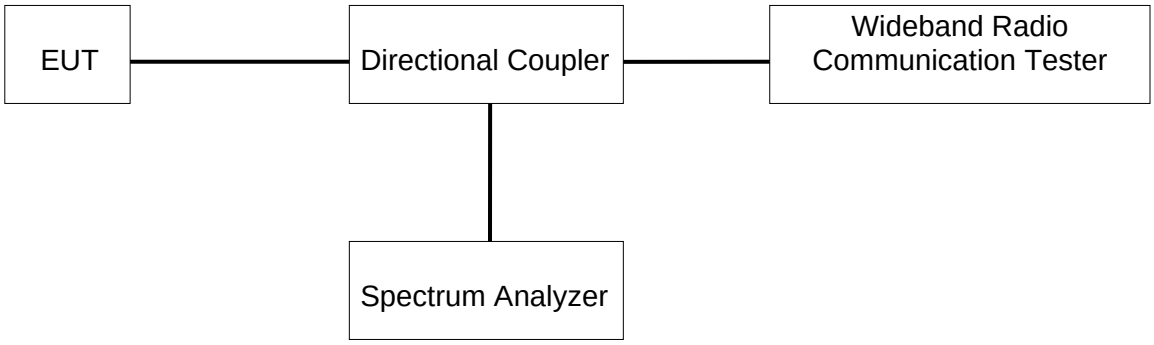
TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

a) Set the RBW = 100 kHz for emission below 1GHz and 1MHz for emissions above 1GHz
(Tests were performed 1 MHz [Worst case], to sweep 1 time for all frequency range)
b) Set VBW ≥ 3 × RBW;
c) Set span ≥ 1.5 times the OBW;
d) Sweep time = auto couple;
e) Detector = rms;
f) Ensure that the number of measurement points = Max (40001);
g) Trace mode = average (LTE 5), Maxhold (LTE Band7);

Note: Please refer to section 5.4 for bandwidth and RB setting about LTE bands.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4°C	Relative Humidity	57.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

RESULTS

Please refer to Appendix E.

7.6. FREQUENCY STABILITY

Rule Part:
FCC: §2.1055, §22.355, §24.235, §27.54

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ±2.5 ppm for mobile stations.

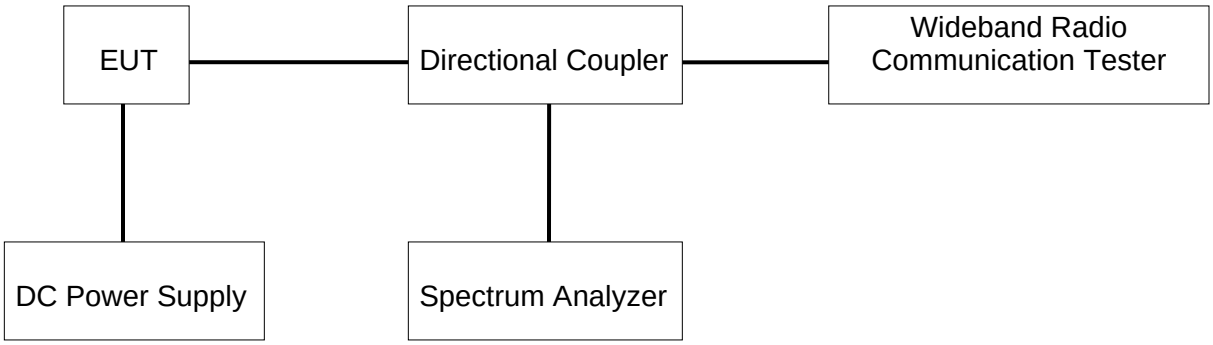
§24.235 and §27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

	Normal Test Conditions	Extreme Test Conditions
Relative Humidity	45 % - 75 %	/
Atmospheric Pressure	100 kPa ~102 kPa	/
Temperature	T_N (Normal Temperature): 24.7 °C	T_L (Low Temperature): -30 °C
		T_H (High Temperature): 50 °C
Supply Voltage	V_N (Normal Voltage): DC 7.2 V	V_L (Low Voltage): DC 6.1V
		V_H (High Voltage): DC 8.3 V

TEST SETUP



RESULTS

The peak frequency error is recorded (worst-case).

Please refer to Appendix F.

8. APPENDIX

8.1. Appendix A: Effective (Isotropic) Radiated Power Output Data

LTE FDD B2				Conducted Power(dBm)			EIRP (W)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				18607	18900	19193	18607	18900	19193
1.4MHz	QPSK	1	0	21.20	21.24	21.31	0.173	0.175	0.178
		1	2	21.38	21.58	21.16	0.181	0.189	0.172
		1	5	21.19	20.93	20.79	0.173	0.163	0.158
		3	0	20.39	20.33	19.96	0.144	0.142	0.130
		3	1	20.63	20.30	19.99	0.152	0.141	0.131
		3	3	20.37	20.16	19.89	0.143	0.136	0.128
		6	0	20.38	20.22	20.02	0.144	0.138	0.132
	16QAM	1	0	20.44	20.41	20.27	0.146	0.145	0.140
		1	2	20.94	20.37	20.27	0.163	0.143	0.140
		1	5	20.38	19.91	20.05	0.144	0.129	0.133
		3	0	19.62	19.68	19.28	0.121	0.122	0.111
		3	1	19.66	19.45	18.99	0.122	0.116	0.104
		3	3	19.54	19.48	18.88	0.118	0.117	0.102
		6	0	19.34	19.41	19.02	0.113	0.115	0.105
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				18615	18900	19185	18615	18900	19185
3MHz	QPSK	1	0	21.51	21.26	21.11	0.186	0.176	0.170
		1	8	21.66	21.55	21.31	0.193	0.188	0.178
		1	14	21.14	21.07	21.03	0.171	0.168	0.167
		8	0	20.50	20.28	20.20	0.148	0.140	0.138
		8	4	20.74	20.31	20.11	0.156	0.141	0.135
		8	7	20.30	20.49	20.06	0.141	0.147	0.133
		15	0	20.34	20.50	20.05	0.142	0.148	0.133
	16QAM	1	0	20.64	20.19	20.29	0.152	0.137	0.141
		1	8	20.71	20.72	20.15	0.155	0.155	0.136
		1	14	20.22	20.24	19.88	0.138	0.139	0.128
		8	0	19.71	19.46	19.32	0.123	0.116	0.112
		8	4	19.58	19.48	19.33	0.119	0.117	0.113
		8	7	19.47	19.43	19.09	0.116	0.115	0.107
		15	0	19.34	19.63	18.92	0.113	0.121	0.103
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				18625	18900	19175	18625	18900	19175
5MHz	QPSK	1	0	21.20	20.96	21.07	0.173	0.164	0.168
		1	12	21.47	21.37	21.23	0.185	0.180	0.175
		1	24	21.44	20.98	21.00	0.183	0.165	0.166
		12	0	20.65	20.47	20.33	0.153	0.147	0.142
		12	6	20.55	20.69	20.15	0.149	0.154	0.136
		12	13	20.32	20.36	19.71	0.142	0.143	0.123
		25	0	20.60	20.55	19.96	0.151	0.149	0.130
	16QAM	1	0	20.66	20.26	19.90	0.153	0.140	0.129
		1	12	20.66	20.63	20.29	0.153	0.152	0.141
		1	24	20.27	20.20	20.12	0.140	0.138	0.135
		12	0	19.56	19.65	19.26	0.119	0.121	0.111
		12	6	19.58	19.64	19.20	0.119	0.121	0.109

		12	13	19.55	19.58	18.71	0.119	0.119	0.098
		25	0	19.25	19.25	18.97	0.111	0.111	0.104
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				18650	18900	19150	18650	18900	19150
10MHz	QPSK	1	0	21.50	21.32	21.19	0.186	0.178	0.173
		1	24	21.63	21.33	21.16	0.191	0.179	0.172
		1	49	21.14	20.87	20.91	0.171	0.161	0.162
		25	0	20.70	20.46	20.04	0.155	0.146	0.133
		25	12	20.45	20.51	20.13	0.146	0.148	0.136
		25	25	20.45	20.42	19.82	0.146	0.145	0.126
		50	0	20.52	20.29	20.14	0.148	0.141	0.136
	16QAM	1	0	20.45	20.16	19.96	0.146	0.136	0.130
		1	24	20.93	20.74	20.11	0.163	0.156	0.135
		1	49	20.45	20.12	19.99	0.146	0.135	0.131
		25	0	19.71	19.59	19.02	0.123	0.120	0.105
		25	12	19.50	19.70	19.06	0.117	0.123	0.106
		25	25	19.34	19.54	18.81	0.113	0.118	0.100
		50	0	19.52	19.38	19.07	0.118	0.114	0.106
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				18675	18900	19125	18675	18900	19125
15MHz	QPSK	1	0	21.13	21.20	21.07	0.171	0.173	0.168
		1	38	21.68	21.33	21.52	0.194	0.179	0.187
		1	74	21.22	21.13	20.99	0.174	0.171	0.165
		36	0	20.54	20.55	20.15	0.149	0.149	0.136
		36	18	20.73	20.64	20.31	0.156	0.152	0.141
		36	37	20.40	20.38	19.86	0.144	0.144	0.127
		75	0	20.63	20.35	20.02	0.152	0.143	0.132
	16QAM	1	0	20.29	20.28	19.96	0.141	0.140	0.130
		1	38	20.89	20.42	20.16	0.161	0.145	0.136
		1	74	20.19	19.91	19.82	0.137	0.129	0.126
		36	0	19.40	19.71	19.21	0.115	0.123	0.110
		36	18	19.52	19.40	19.01	0.118	0.115	0.105
		36	37	19.27	19.40	18.99	0.111	0.115	0.104
		75	0	19.40	19.61	18.89	0.115	0.120	0.102
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				18700	18900	19100	18700	18900	19100
20MHz	QPSK	1	0	21.62	21.44	21.44	0.191	0.183	0.183
		1	49	21.86	21.76	21.64	0.202	0.197	0.192
		1	99	21.54	21.35	21.19	0.187	0.179	0.173
		50	0	20.85	20.71	20.43	0.160	0.155	0.145
		50	25	20.85	20.80	20.44	0.160	0.158	0.146
		50	50	20.67	20.65	20.19	0.153	0.153	0.137
		100	0	20.76	20.68	20.30	0.157	0.154	0.141
	16QAM	1	0	20.76	20.51	20.39	0.157	0.148	0.144
		1	49	21.08	20.84	20.60	0.169	0.160	0.151
		1	99	20.69	20.40	20.24	0.154	0.144	0.139
		50	0	19.90	19.81	19.44	0.129	0.126	0.116
		50	25	19.90	19.83	19.43	0.129	0.126	0.115
		50	50	19.73	19.71	19.19	0.124	0.123	0.109
		100	0	19.75	19.74	19.34	0.124	0.124	0.113

LTE FDD B4				Conducted Power(dBm)			EIRP (W)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				19957	20175	20393	19957	20175	20393
1.4MHz	QPSK	1	0	21.68	21.98	22.06	0.166	0.178	0.182
		1	2	22.31	22.44	22.45	0.192	0.198	0.199
		1	5	22.05	21.88	22.09	0.181	0.174	0.183
		3	0	20.94	21.12	21.26	0.140	0.146	0.151
		3	1	21.03	21.07	21.26	0.143	0.145	0.151
		3	3	21.24	21.09	21.16	0.150	0.145	0.148
		6	0	21.1	21.14	21.21	0.146	0.147	0.149
	16QAM	1	0	20.48	20.97	20.81	0.126	0.141	0.136
		1	2	21.14	21.21	21	0.147	0.149	0.142
		1	5	20.89	20.9	20.78	0.139	0.139	0.135
		3	0	19.69	19.86	20.17	0.105	0.109	0.117
		3	1	19.76	19.89	19.94	0.107	0.110	0.111
		3	3	19.95	19.81	20.02	0.112	0.108	0.114
		6	0	20.07	19.8	20.05	0.115	0.108	0.114
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				19965	20175	20385	19965	20175	20385
3MHz	QPSK	1	0	21.4	21.73	21.84	0.156	0.168	0.173
		1	8	21.98	22.09	22.3	0.178	0.183	0.192
		1	14	21.88	21.6	21.69	0.174	0.163	0.167
		8	0	20.8	20.74	20.98	0.136	0.134	0.142
		8	4	20.86	20.96	21.01	0.138	0.141	0.143
		8	7	20.96	20.73	21.06	0.141	0.134	0.144
		15	0	20.75	20.79	21.11	0.134	0.136	0.146
	16QAM	1	0	20.33	20.98	20.82	0.122	0.142	0.136
		1	8	21.18	21.09	21.16	0.148	0.145	0.148
		1	14	20.79	20.74	20.93	0.136	0.134	0.140
		8	0	19.78	19.86	20.15	0.107	0.109	0.117
		8	4	19.79	19.83	19.99	0.108	0.109	0.113
		8	7	19.99	19.98	19.95	0.113	0.112	0.112
		15	0	19.77	19.98	20.03	0.107	0.112	0.114
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				19975	20175	20375	19975	20175	20375
5MHz	QPSK	1	0	21.52	21.81	21.82	0.160	0.171	0.172
		1	12	22.08	22.33	22.31	0.182	0.193	0.192
		1	24	21.89	21.7	21.99	0.175	0.167	0.179
		12	0	20.72	20.75	21.14	0.133	0.134	0.147
		12	6	20.86	20.84	21.06	0.138	0.137	0.144
		12	13	21.13	20.74	21.05	0.147	0.134	0.144
		25	0	20.82	20.99	20.94	0.136	0.142	0.140
	16QAM	1	0	20.55	20.94	20.96	0.128	0.140	0.141
		1	12	20.95	21.38	21.09	0.141	0.155	0.145
		1	24	20.84	20.88	20.85	0.137	0.138	0.137
		12	0	19.76	20.04	20.07	0.107	0.114	0.115
		12	6	19.89	19.77	19.88	0.110	0.107	0.110
		12	13	19.87	19.95	20.06	0.110	0.112	0.115
		25	0	19.8	19.76	19.95	0.108	0.107	0.112
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel

				20000	20175	20350	20000	20175	20350
10MHz	QPSK	1	0	21.46	21.8	21.72	0.158	0.171	0.168
		1	24	22	22.24	22.09	0.179	0.189	0.183
		1	49	21.92	21.75	21.93	0.176	0.169	0.176
		25	0	20.65	21.01	21.05	0.131	0.143	0.144
		25	12	20.66	20.7	21.09	0.132	0.133	0.145
		25	25	21.06	20.85	20.92	0.144	0.137	0.140
		50	0	20.89	20.95	20.98	0.139	0.141	0.142
	16QAM	1	0	20.58	20.86	20.75	0.129	0.138	0.134
		1	24	21.16	21.1	21.14	0.148	0.146	0.147
		1	49	20.67	20.81	20.72	0.132	0.136	0.133
		25	0	19.85	19.74	20.18	0.109	0.106	0.118
		25	12	19.61	19.9	20.08	0.103	0.110	0.115
		25	25	20.12	19.81	20.02	0.116	0.108	0.114
		50	0	20.06	19.93	19.89	0.115	0.111	0.110
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				20025	20175	20325	20025	20175	20325
15MHz	QPSK	1	0	21.34	21.54	21.65	0.154	0.161	0.165
		1	38	22.06	22.04	22.23	0.182	0.181	0.189
		1	74	21.9	21.42	21.76	0.175	0.157	0.169
		36	0	20.55	21	20.94	0.128	0.142	0.140
		36	18	20.78	20.57	20.89	0.135	0.129	0.139
		36	37	21.06	20.98	20.95	0.144	0.142	0.141
		75	0	20.61	20.99	20.92	0.130	0.142	0.140
	16QAM	1	0	20.53	20.71	20.71	0.128	0.133	0.133
		1	38	20.88	21.04	21.1	0.138	0.144	0.146
		1	74	20.7	20.59	20.73	0.133	0.129	0.134
		36	0	19.73	19.72	19.84	0.106	0.106	0.109
		36	18	19.7	19.91	19.92	0.105	0.111	0.111
		36	37	19.73	19.79	19.86	0.106	0.108	0.109
		75	0	19.95	19.78	19.77	0.112	0.107	0.107
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				20050	20175	20300	20050	20175	20300
20MHz	QPSK	1	0	21.68	21.98	22.06	0.166	0.178	0.182
		1	49	22.31	22.44	22.45	0.192	0.198	0.199
		1	99	22.05	21.88	22.09	0.181	0.174	0.183
		50	0	20.94	21.12	21.26	0.140	0.146	0.151
		50	25	21.03	21.07	21.26	0.143	0.145	0.151
		50	50	21.24	21.09	21.16	0.150	0.145	0.148
		100	0	21.1	21.14	21.21	0.146	0.147	0.149
	16QAM	1	0	20.71	21.14	21.07	0.133	0.147	0.145
		1	49	21.29	21.49	21.31	0.152	0.159	0.153
		1	99	21.05	21.06	21.04	0.144	0.144	0.144
		50	0	20.02	20.14	20.31	0.114	0.117	0.121
		50	25	20.01	20.16	20.24	0.113	0.117	0.119
		50	50	20.23	20.18	20.22	0.119	0.118	0.119
		100	0	20.17	20.14	20.24	0.117	0.117	0.119

LTE FDD B5				Conducted Power(dBm)			ERP (W)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				20407	20525	20643	20407	20525	20643
1.4MHz	QPSK	1	0	22.25	22.46	22.45	0.097	0.102	0.102
		1	2	22.64	22.49	22.66	0.106	0.103	0.107
		1	5	22.58	22.49	22.44	0.105	0.103	0.101
		3	0	21.49	21.53	21.65	0.081	0.082	0.085
		3	1	21.52	21.49	21.65	0.082	0.081	0.085
		3	3	21.50	21.72	21.63	0.082	0.086	0.084
		6	0	21.59	21.67	21.58	0.083	0.085	0.083
	16QAM	1	0	21.64	21.71	21.88	0.084	0.086	0.089
		1	2	21.71	21.91	21.94	0.086	0.090	0.090
		1	5	21.60	21.64	21.63	0.084	0.084	0.084
		3	0	20.34	20.65	20.73	0.063	0.067	0.068
		3	1	20.31	20.81	20.70	0.062	0.070	0.068
		3	3	20.45	20.75	20.86	0.064	0.069	0.070
		6	0	20.46	20.63	20.64	0.064	0.110	0.067
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				20415	20525	20635	20415	20525	20635
3MHz	QPSK	1	0	22.21	22.36	22.51	0.096	0.100	0.103
		1	8	22.40	22.68	22.53	0.100	0.107	0.104
		1	14	22.37	22.49	22.66	0.100	0.103	0.107
		8	0	21.45	21.55	21.70	0.081	0.083	0.086
		8	4	21.44	21.62	21.78	0.081	0.084	0.087
		8	7	21.59	21.64	21.62	0.083	0.084	0.084
		15	0	21.43	21.56	21.78	0.080	0.083	0.087
	16QAM	1	0	21.64	21.69	21.89	0.084	0.085	0.089
		1	8	21.76	21.73	21.97	0.087	0.086	0.091
		1	14	21.56	21.71	21.82	0.083	0.086	0.088
		8	0	20.44	20.70	20.67	0.064	0.068	0.067
		8	4	20.49	20.69	20.87	0.065	0.068	0.071
		8	7	20.37	20.75	20.88	0.063	0.069	0.071
		15	0	20.60	20.66	20.66	0.066	0.110	0.067
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				20425	20525	20625	20425	20525	20625
5MHz	QPSK	1	0	22.20	22.53	22.53	0.096	0.104	0.104
		1	12	22.59	22.43	22.55	0.105	0.101	0.104
		1	24	22.58	22.62	22.61	0.105	0.106	0.105
		12	0	21.48	21.51	21.59	0.081	0.082	0.083
		12	6	21.53	21.69	21.82	0.082	0.085	0.088
		12	13	21.31	21.57	21.72	0.078	0.083	0.086
		25	0	21.32	21.70	21.66	0.078	0.086	0.085
	16QAM	1	0	21.42	21.71	21.63	0.080	0.086	0.084
		1	12	21.75	21.77	21.97	0.086	0.087	0.091
		1	24	21.53	21.57	21.86	0.082	0.083	0.089
		12	0	20.40	20.81	20.77	0.063	0.070	0.069

		12	6	20.46	20.66	20.78	0.064	0.067	0.069
		12	13	20.56	20.70	20.65	0.066	0.068	0.067
		25	0	20.30	20.50	20.80	0.062	0.106	0.070
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				20450	20525	20600	20450	20525	20600
10MHz	QPSK	1	0	22.56	22.70	22.83	0.104	0.108	0.111
		1	24	22.74	22.80	22.91	0.109	0.110	0.113
		1	49	22.71	22.76	22.76	0.108	0.109	0.109
		25	0	21.71	21.88	21.99	0.086	0.089	0.091
		25	12	21.72	21.89	21.97	0.086	0.089	0.091
		25	25	21.70	21.86	21.97	0.086	0.089	0.091
		50	0	21.70	21.86	21.97	0.086	0.089	0.091
	16QAM	1	0	21.78	21.88	22.03	0.087	0.089	0.092
		1	24	21.86	22.01	22.23	0.089	0.092	0.097
		1	49	21.92	21.97	22.00	0.090	0.091	0.092
		25	0	20.69	20.97	21.05	0.068	0.072	0.074
		25	12	20.68	20.98	21.02	0.068	0.072	0.073
		25	25	20.70	20.90	20.98	0.068	0.071	0.072
		50	0	20.70	20.90	21.03	0.068	0.117	0.073

LTE FDD B7				Conducted Power(dBm)			EIRP (W)		
	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				20775	21100	21425	20775	21100	21425
5MHz	QPSK	1	0	21.05	21.07	20.92	0.203	0.204	0.197
		1	12	21.16	20.95	20.95	0.208	0.198	0.198
		1	24	20.82	20.3	20.39	0.192	0.171	0.174
		12	0	19.97	19.63	19.81	0.158	0.146	0.152
		12	6	19.92	19.76	19.77	0.156	0.151	0.151
		12	13	20.08	19.7	19.69	0.162	0.149	0.148
		25	0	20.26	19.59	19.67	0.169	0.145	0.148
	16QAM	1	0	20.17	19.55	19.62	0.166	0.144	0.146
		1	12	20	19.86	19.95	0.159	0.154	0.157
		1	24	19.67	19.47	19.65	0.148	0.141	0.147
		12	0	19.1	18.84	18.78	0.129	0.122	0.120
		12	6	18.86	18.7	18.8	0.122	0.118	0.121
		12	13	19.07	18.56	18.78	0.129	0.114	0.120
		25	0	19.02	18.91	18.58	0.127	0.124	0.115
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				20800	21100	21400	20800	21100	21400
10MHz	QPSK	1	0	20.91	21.14	20.98	0.196	0.207	0.200
		1	24	21.07	20.83	20.7	0.204	0.193	0.187
		1	49	20.73	20.33	20.45	0.188	0.172	0.177
		25	0	20	19.67	19.57	0.159	0.148	0.144
		25	12	19.91	19.72	19.63	0.156	0.149	0.146
		25	25	20.16	19.72	19.67	0.165	0.149	0.148
		50	0	20.08	19.77	19.6	0.162	0.151	0.145
	16QAM	1	0	20.04	19.7	19.65	0.161	0.149	0.147
		1	24	20	19.83	19.77	0.159	0.153	0.151
		1	49	19.69	19.61	19.7	0.148	0.146	0.149
		25	0	19.02	18.64	18.74	0.127	0.116	0.119
		25	12	18.82	18.86	18.88	0.121	0.122	0.123
		25	25	19.29	18.73	18.69	0.135	0.119	0.118
		50	0	19.18	18.9	18.71	0.132	0.124	0.118
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				20825	21100	21375	20825	21100	21375
15MHz	QPSK	1	0	20.94	21	21.12	0.198	0.200	0.206
		1	38	21.03	20.96	20.78	0.202	0.199	0.191
		1	74	20.69	20.3	20.46	0.187	0.171	0.177
		36	0	19.96	19.79	19.66	0.158	0.152	0.147
		36	18	19.81	19.77	19.67	0.152	0.151	0.148
		36	37	19.99	19.92	19.64	0.159	0.156	0.147
		75	0	20.29	19.66	19.6	0.170	0.147	0.145
	16QAM	1	0	19.98	19.47	19.5	0.158	0.141	0.142
		1	38	20	19.93	19.93	0.159	0.157	0.157
		1	74	19.52	19.58	19.71	0.143	0.145	0.149

		36	0	18.98	18.81	18.63	0.126	0.121	0.116
		36	18	18.78	18.82	18.86	0.120	0.121	0.122
		36	37	19.37	18.54	18.68	0.138	0.114	0.117
		75	0	19.19	18.83	18.74	0.132	0.122	0.119
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				20850	21100	21350	20850	21100	21350
20MHz	QPSK	1	0	21.21	21.24	21.25	0.210	0.212	0.212
		1	49	21.39	21.16	21.05	0.219	0.208	0.203
		1	99	21	20.7	20.78	0.200	0.187	0.191
		50	0	20.23	19.98	19.92	0.168	0.158	0.156
		50	25	20.15	20.11	20	0.165	0.163	0.159
		50	50	20.39	20.02	19.89	0.174	0.160	0.155
		100	0	20.39	19.94	19.93	0.174	0.157	0.157
	16QAM	1	0	20.31	19.86	19.85	0.171	0.154	0.154
		1	49	20.38	20.22	20.11	0.174	0.167	0.163
		1	99	19.89	19.76	19.83	0.155	0.151	0.153
		50	0	19.29	19.04	18.96	0.135	0.128	0.125
		50	25	18.96	19.03	18.99	0.125	0.127	0.126
		50	50	19.47	18.93	18.88	0.141	0.124	0.123
		100	0	19.4	19.01	18.92	0.139	0.127	0.124

LTE FDD B12				Conducted Power(dBm)			ERP (W)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				23017	23095	23173	23017	23095	23173
1.4MHz	QPSK	1	0	22.14	22.1	22.19	0.065	0.064	0.066
		1	2	22.32	22.33	22.33	0.068	0.068	0.068
		1	5	22.31	22.34	22.41	0.067	0.068	0.069
		3	0	21.13	21.36	21.08	0.051	0.054	0.051
		3	1	21.3	21.25	21.23	0.053	0.053	0.053
		3	3	21.33	21.32	21.13	0.054	0.054	0.051
		6	0	21.27	21.24	21.23	0.053	0.053	0.053
	16QAM	1	0	21.22	21.01	21.26	0.052	0.050	0.053
		1	2	21.59	21.32	21.43	0.057	0.054	0.055
		1	5	21.29	21.27	21.46	0.053	0.053	0.055
		3	0	20.4	20.31	20.34	0.043	0.043	0.043
		3	1	20.3	20.2	20.06	0.042	0.041	0.040
		3	3	20.23	20.37	20.23	0.042	0.043	0.042
		6	0	20.14	20.27	20.38	0.041	0.069	0.043
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				23025	23095	23165	23025	23095	23165
3MHz	QPSK	1	0	21.97	22.11	22.29	0.062	0.064	0.067
		1	8	22.36	22.52	22.35	0.068	0.071	0.068
		1	14	22.26	22.37	22.45	0.067	0.068	0.070
		8	0	21.12	21.38	21.28	0.051	0.054	0.053
		8	4	21.27	21.36	21.23	0.053	0.054	0.053
		8	7	21.07	21.43	21.36	0.051	0.055	0.054
		15	0	21.11	21.21	21.15	0.051	0.052	0.052
	16QAM	1	0	21.37	21.1	21.45	0.054	0.051	0.055
		1	8	21.51	21.16	21.66	0.056	0.052	0.058
		1	14	21.42	21.34	21.55	0.055	0.054	0.057
		8	0	20.26	20.47	20.23	0.042	0.044	0.042
		8	4	20.42	20.29	20.19	0.044	0.042	0.041
		8	7	20.42	20.35	20.26	0.044	0.043	0.042
		15	0	20.39	20.35	20.27	0.043	0.070	0.042
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				23035	23095	23155	23035	23095	23155
5MHz	QPSK	1	0	21.94	22.08	22.07	0.062	0.064	0.064
		1	12	22.37	22.52	22.34	0.068	0.071	0.068
		1	24	22.22	22.3	22.45	0.066	0.067	0.070
		12	0	21.31	21.38	21.3	0.054	0.054	0.053
		12	6	21.27	21.34	21.17	0.053	0.054	0.052
		12	13	21.26	21.3	21.08	0.053	0.053	0.051
		25	0	21.15	21.42	21.27	0.052	0.055	0.053
	16QAM	1	0	21.34	20.97	21.51	0.054	0.050	0.056
		1	12	21.54	21.12	21.58	0.056	0.051	0.057
		1	24	21.54	21.38	21.43	0.056	0.054	0.055
		12	0	20.42	20.41	20.16	0.044	0.044	0.041
		12	6	20.29	20.25	20.26	0.042	0.042	0.042
		12	13	20.19	20.38	20.2	0.041	0.043	0.041
		25	0	20.37	20.45	20.32	0.043	0.072	0.043

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				23060	23095	23130	23060	23095	23130
10MHz	QPSK	1	0	22.31	22.4	22.44	0.067	0.069	0.070
		1	24	22.5	22.67	22.58	0.070	0.073	0.072
		1	49	22.42	22.56	22.57	0.069	0.071	0.072
		25	0	21.51	21.59	21.43	0.056	0.057	0.055
		25	12	21.5	21.55	21.42	0.056	0.057	0.055
		25	25	21.47	21.62	21.48	0.056	0.058	0.056
		50	0	21.49	21.55	21.46	0.056	0.057	0.055
	16QAM	1	0	21.49	21.33	21.64	0.056	0.054	0.058
		1	24	21.74	21.47	21.81	0.059	0.056	0.060
		1	49	21.64	21.52	21.75	0.058	0.056	0.059
		25	0	20.56	20.57	20.49	0.045	0.045	0.044
		25	12	20.55	20.59	20.45	0.045	0.045	0.044
		25	25	20.58	20.69	20.49	0.045	0.046	0.044
		50	0	20.51	20.61	20.48	0.045	0.075	0.044

LTE FDD B17				Conducted Power(dBm)			ERP (W)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				23755	23790	23825	23755	23790	23825
5MHz	QPSK	1	0	21.94	22.21	22.15	0.062	0.066	0.065
		1	12	22.43	22.5	22.32	0.069	0.070	0.068
		1	24	22.22	22.33	22.41	0.066	0.068	0.069
		12	0	21.16	21.2	21.36	0.052	0.052	0.054
		12	6	21.23	21.21	21.23	0.053	0.052	0.053
		12	13	21.29	21.41	21.39	0.053	0.055	0.055
		25	0	21.17	21.23	21.12	0.052	0.053	0.051
	16QAM	1	0	21.35	21.02	21.46	0.054	0.050	0.055
		1	12	21.59	21.34	21.7	0.057	0.054	0.059
		1	24	21.33	21.35	21.34	0.054	0.054	0.054
		12	0	20.3	20.15	20.38	0.042	0.041	0.043
		12	6	20.29	20.33	20.16	0.042	0.043	0.041
		12	13	20.49	20.39	20.3	0.044	0.043	0.042
		25	0	20.51	20.3	20.24	0.045	0.070	0.042
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				23780	23790	23800	23780	23790	23800
10MHz	QPSK	1	0	22.33	22.49	22.39	0.068	0.070	0.069
		1	24	22.62	22.62	22.58	0.072	0.072	0.072
		1	49	22.55	22.56	22.54	0.071	0.071	0.071
		25	0	21.5	21.47	21.49	0.056	0.056	0.056
		25	12	21.53	21.52	21.5	0.056	0.056	0.056
		25	25	21.58	21.58	21.52	0.057	0.057	0.056
		50	0	21.55	21.48	21.48	0.057	0.056	0.056
	16QAM	1	0	21.55	21.35	21.56	0.057	0.054	0.057
		1	24	21.8	21.49	21.85	0.060	0.056	0.061
		1	49	21.69	21.5	21.74	0.058	0.056	0.059
		25	0	20.54	20.53	20.48	0.045	0.045	0.044
		25	12	20.61	20.59	20.53	0.046	0.045	0.045
		25	25	20.65	20.59	20.53	0.046	0.045	0.045
		50	0	20.62	20.55	20.47	0.046	0.074	0.044

LTE FDD B25			Conducted Power(dBm)				EIRP (W)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				26047	26365	26683	26047	26365	26683
1.4MHz	QPSK	1	0	21.53	21.43	20.88	0.187	0.183	0.161
		1	2	21.6	21.88	21.02	0.190	0.203	0.166
		1	5	21.4	21.18	20.7	0.182	0.173	0.155
		3	0	20.77	20.7	20.29	0.157	0.155	0.141
		3	1	20.66	20.48	20.08	0.153	0.147	0.134
		3	3	20.37	20.44	20.07	0.143	0.146	0.134
		6	0	20.46	20.44	20.22	0.146	0.146	0.138
	16QAM	1	0	20.49	20.59	19.88	0.147	0.151	0.128
		1	2	20.69	20.67	20.26	0.154	0.153	0.140
		1	5	20.36	20.46	19.98	0.143	0.146	0.131
		3	0	19.6	19.73	19.15	0.120	0.124	0.108
		3	1	19.49	19.59	19.15	0.117	0.120	0.108
		3	3	19.65	19.45	19.09	0.121	0.116	0.107
		6	0	19.48	19.28	19.1	0.117	0.111	0.107
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				26055	26365	26675	26055	26365	26675
3MHz	QPSK	1	0	21.5	21.32	20.95	0.186	0.178	0.164
		1	8	21.56	21.8	21.24	0.188	0.199	0.175
		1	14	21.22	21.3	20.85	0.174	0.177	0.160
		8	0	20.66	20.57	20.12	0.153	0.150	0.135
		8	4	20.76	20.57	20.32	0.157	0.150	0.142
		8	7	20.54	20.5	20.06	0.149	0.148	0.133
		15	0	20.5	20.54	20.02	0.148	0.149	0.132
	16QAM	1	0	20.38	20.44	19.98	0.144	0.146	0.131
		1	8	20.58	20.73	20.37	0.150	0.156	0.143
		1	14	20.15	20.4	20.12	0.136	0.144	0.135
		8	0	19.69	19.66	19.29	0.122	0.122	0.112
		8	4	19.57	19.61	19.19	0.119	0.120	0.109
		8	7	19.7	19.29	19.1	0.123	0.112	0.107
		15	0	19.69	19.54	19.05	0.122	0.118	0.106
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				26065	26365	26665	26065	26365	26665
5MHz	QPSK	1	0	21.52	21.44	20.81	0.187	0.183	0.158
		1	12	21.68	21.83	21.13	0.194	0.200	0.171
		1	24	21.18	21.07	20.85	0.173	0.168	0.160
		12	0	20.48	20.7	20.13	0.147	0.155	0.136
		12	6	20.68	20.54	20.04	0.154	0.149	0.133
		12	13	20.39	20.47	20.05	0.144	0.147	0.133
		25	0	20.47	20.4	20.14	0.147	0.144	0.136
	16QAM	1	0	20.56	20.6	19.94	0.150	0.151	0.130
		1	12	20.62	20.86	20.27	0.152	0.160	0.140
		1	24	20.32	20.44	19.88	0.142	0.146	0.128

		12	0	19.69	19.58	19.1	0.122	0.119	0.107
		12	6	19.6	19.47	19.25	0.120	0.116	0.111
		12	13	19.52	19.52	19.19	0.118	0.118	0.109
		25	0	19.68	19.44	19.01	0.122	0.116	0.105
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				26090	26365	26640	26090	26365	26640
10MHz	QPSK	1	0	21.47	21.45	20.86	0.185	0.184	0.160
		1	24	21.55	21.85	21.03	0.188	0.201	0.167
		1	49	21.17	21.18	20.74	0.172	0.173	0.156
		25	0	20.56	20.43	20.3	0.150	0.145	0.141
		25	12	20.5	20.55	20.14	0.148	0.149	0.136
		25	25	20.57	20.46	19.96	0.150	0.146	0.130
		50	0	20.68	20.36	20.07	0.154	0.143	0.134
	16QAM	1	0	20.41	20.63	20.14	0.145	0.152	0.136
		1	24	20.54	20.66	20.41	0.149	0.153	0.145
		1	49	20.37	20.28	19.87	0.143	0.140	0.128
		25	0	19.62	19.43	19.36	0.121	0.115	0.114
		25	12	19.51	19.68	19.23	0.117	0.122	0.110
		25	25	19.6	19.29	19.18	0.120	0.112	0.109
		50	0	19.6	19.32	19.25	0.120	0.112	0.111
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				26115	26365	26615	26115	26365	26615
15MHz	QPSK	1	0	21.33	21.52	20.87	0.179	0.187	0.161
		1	38	21.7	21.76	21.18	0.195	0.197	0.173
		1	74	21.43	21.12	20.97	0.183	0.170	0.164
		36	0	20.77	20.48	20.24	0.157	0.147	0.139
		36	18	20.61	20.59	20.28	0.151	0.151	0.140
		36	37	20.65	20.21	19.92	0.153	0.138	0.129
		75	0	20.64	20.48	20.05	0.152	0.147	0.133
	16QAM	1	0	20.48	20.67	19.98	0.147	0.153	0.131
		1	38	20.56	20.77	20.22	0.150	0.157	0.138
		1	74	20.27	20.3	20.05	0.140	0.141	0.133
		36	0	19.75	19.72	19.36	0.124	0.123	0.114
		36	18	19.68	19.6	19.32	0.122	0.120	0.112
		36	37	19.65	19.33	18.98	0.121	0.113	0.104
		75	0	19.62	19.47	19.14	0.121	0.116	0.108
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				26140	26365	26590	26140	26365	26590
20MHz	QPSK	1	0	21.72	21.63	21.14	0.195	0.191	0.171
		1	49	21.87	22.04	21.42	0.202	0.210	0.182
		1	99	21.56	21.41	21.1	0.188	0.182	0.169
		50	0	20.88	20.8	20.47	0.161	0.158	0.147
		50	25	20.87	20.79	20.44	0.161	0.158	0.146
		50	50	20.75	20.6	20.29	0.156	0.151	0.141
		100	0	20.78	20.72	20.32	0.157	0.155	0.142

	16QAM	1	0	20.67	20.8	20.25	0.153	0.158	0.139
		1	49	20.9	21.05	20.54	0.162	0.167	0.149
		1	99	20.55	20.57	20.26	0.149	0.150	0.140
		50	0	19.86	19.83	19.48	0.127	0.126	0.117
		50	25	19.86	19.84	19.46	0.127	0.127	0.116
		50	50	19.8	19.66	19.36	0.126	0.122	0.114
		100	0	19.82	19.68	19.37	0.126	0.122	0.114

LTE FDD B26				Conducted Power(dBm)			ERP (W)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				26697	26865	27033	26697	26865	27033
1.4MHz	QPSK	1	0	22.29	22.38	22.35	0.098	0.100	0.099
		1	2	22.19	22.33	22.63	0.096	0.099	0.106
		1	5	22.25	22.64	22.47	0.097	0.106	0.102
		3	0	21.26	21.41	21.75	0.077	0.080	0.086
		3	1	21.43	21.45	21.73	0.080	0.081	0.086
		3	3	21.44	21.56	21.77	0.081	0.083	0.087
		6	0	21.27	21.67	21.9	0.077	0.085	0.090
	16QAM	1	0	21.75	21.25	21.65	0.086	0.077	0.085
		1	2	21.74	21.38	22.04	0.086	0.079	0.092
		1	5	21.45	21.58	21.9	0.081	0.083	0.090
		3	0	20.32	20.53	20.8	0.062	0.065	0.070
		3	1	20.49	20.41	20.62	0.065	0.064	0.067
		3	3	20.44	20.42	20.6	0.064	0.064	0.066
		6	0	20.26	20.48	20.64	0.061	0.106	0.067
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				26705	26865	27025	26705	26865	27025
3MHz	QPSK	1	0	22.32	22.27	22.48	0.099	0.097	0.102
		1	8	22.36	22.51	22.64	0.100	0.103	0.106
		1	14	22.32	22.53	22.64	0.099	0.104	0.106
		8	0	21.24	21.35	21.84	0.077	0.079	0.088
		8	4	21.16	21.45	21.87	0.076	0.081	0.089
		8	7	21.31	21.49	21.65	0.078	0.081	0.085
		15	0	21.26	21.47	21.87	0.077	0.081	0.089
	16QAM	1	0	21.53	21.18	21.66	0.082	0.076	0.085
		1	8	21.51	21.51	22.03	0.082	0.082	0.092
		1	14	21.69	21.49	21.69	0.085	0.081	0.085
		8	0	20.46	20.5	20.69	0.064	0.065	0.068
		8	4	20.47	20.43	20.72	0.064	0.064	0.068
		8	7	20.38	20.31	20.6	0.063	0.062	0.066
		15	0	20.52	20.49	20.7	0.065	0.106	0.068
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				26715	26865	27015	26715	26865	27015
5MHz	QPSK	1	0	22.22	22.43	22.57	0.096	0.101	0.104
		1	12	22.17	22.6	22.45	0.095	0.105	0.102
		1	24	22.24	22.64	22.67	0.097	0.106	0.107
		12	0	21.38	21.41	21.83	0.079	0.080	0.088
		12	6	21.41	21.4	21.85	0.080	0.080	0.089
		12	13	21.35	21.61	21.79	0.079	0.084	0.087
		25	0	21.37	21.43	21.79	0.079	0.080	0.087
	16QAM	1	0	21.66	21.3	21.66	0.085	0.078	0.085
		1	12	21.49	21.51	22.03	0.081	0.082	0.092
		1	24	21.62	21.35	21.7	0.084	0.079	0.086
		12	0	20.43	20.51	20.68	0.064	0.065	0.068

		12	6	20.5	20.28	20.59	0.065	0.062	0.066
		12	13	20.52	20.27	20.77	0.065	0.062	0.069
		25	0	20.33	20.37	20.73	0.062	0.103	0.068
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				26740	26865	26990	26740	26865	26990
10MHz	QPSK	1	0	22.12	22.47	22.36	0.094	0.102	0.100
		1	24	22.41	22.43	22.57	0.101	0.101	0.104
		1	49	22.44	22.49	22.57	0.101	0.103	0.104
		25	0	21.24	21.29	21.71	0.077	0.078	0.086
		25	12	21.43	21.49	21.75	0.080	0.081	0.086
		25	25	21.25	21.47	21.82	0.077	0.081	0.088
		50	0	21.32	21.44	21.8	0.078	0.081	0.087
	16QAM	1	0	21.53	21.21	21.75	0.082	0.076	0.086
		1	24	21.5	21.54	21.86	0.082	0.082	0.089
		1	49	21.64	21.46	21.8	0.084	0.081	0.087
		25	0	20.45	20.58	20.73	0.064	0.066	0.068
		25	12	20.33	20.33	20.79	0.062	0.062	0.069
		25	25	20.42	20.49	20.65	0.064	0.065	0.067
		50	0	20.38	20.59	20.62	0.063	0.109	0.067
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				26765	26865	26965	26765	26865	26965
15MHz	QPSK	1	0	22.48	22.58	22.73	0.102	0.105	0.108
		1	38	22.57	22.7	22.85	0.104	0.108	0.111
		1	74	22.59	22.84	22.83	0.105	0.111	0.111
		36	0	21.5	21.69	22.03	0.082	0.085	0.092
		36	18	21.55	21.74	21.99	0.083	0.086	0.091
		36	37	21.56	21.71	21.99	0.083	0.086	0.091
		75	0	21.66	21.78	22.05	0.085	0.087	0.093
	16QAM	1	0	21.85	21.51	21.91	0.089	0.082	0.090
		1	38	21.86	21.68	22.15	0.089	0.085	0.095
		1	74	21.83	21.75	22.01	0.088	0.086	0.092
		36	0	20.62	20.72	20.94	0.067	0.068	0.072
		36	18	20.63	20.62	20.97	0.067	0.067	0.072
		36	37	20.62	20.66	20.99	0.067	0.067	0.073
		75	0	20.65	20.76	20.98	0.067	0.113	0.072

LTE FDD B26				Conducted Power(dBm)			ERP (W)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				26697	26865	27033	26697	26865	27033
1.4MHz	QPSK	1	0	22.29	22.38	22.35	0.098	0.100	0.099
		1	2	22.19	22.33	22.63	0.096	0.099	0.106
		1	5	22.25	22.64	22.47	0.097	0.106	0.102
		3	0	21.26	21.41	21.75	0.077	0.080	0.086
		3	1	21.43	21.45	21.73	0.080	0.081	0.086
		3	3	21.44	21.56	21.77	0.081	0.083	0.087
		6	0	21.27	21.67	21.9	0.077	0.085	0.090
	16QAM	1	0	21.75	21.25	21.65	0.086	0.077	0.085
		1	2	21.74	21.38	22.04	0.086	0.079	0.092
		1	5	21.45	21.58	21.9	0.081	0.083	0.090
		3	0	20.32	20.53	20.8	0.062	0.065	0.070
		3	1	20.49	20.41	20.62	0.065	0.064	0.067
		3	3	20.44	20.42	20.6	0.064	0.064	0.066
		6	0	20.26	20.48	20.64	0.061	0.106	0.067
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				26705	26865	27025	26705	26865	27025
3MHz	QPSK	1	0	22.32	22.27	22.48	0.099	0.097	0.102
		1	8	22.36	22.51	22.64	0.100	0.103	0.106
		1	14	22.32	22.53	22.64	0.099	0.104	0.106
		8	0	21.24	21.35	21.84	0.077	0.079	0.088
		8	4	21.16	21.45	21.87	0.076	0.081	0.089
		8	7	21.31	21.49	21.65	0.078	0.081	0.085
		15	0	21.26	21.47	21.87	0.077	0.081	0.089
	16QAM	1	0	21.53	21.18	21.66	0.082	0.076	0.085
		1	8	21.51	21.51	22.03	0.082	0.082	0.092
		1	14	21.69	21.49	21.69	0.085	0.081	0.085
		8	0	20.46	20.5	20.69	0.064	0.065	0.068
		8	4	20.47	20.43	20.72	0.064	0.064	0.068
		8	7	20.38	20.31	20.6	0.063	0.062	0.066
		15	0	20.52	20.49	20.7	0.065	0.106	0.068
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				26715	26865	27015	26715	26865	27015
5MHz	QPSK	1	0	22.22	22.43	22.57	0.096	0.101	0.104
		1	12	22.17	22.6	22.45	0.095	0.105	0.102
		1	24	22.24	22.64	22.67	0.097	0.106	0.107
		12	0	21.38	21.41	21.83	0.079	0.080	0.088
		12	6	21.41	21.4	21.85	0.080	0.080	0.089
		12	13	21.35	21.61	21.79	0.079	0.084	0.087
		25	0	21.37	21.43	21.79	0.079	0.080	0.087
	16QAM	1	0	21.66	21.3	21.66	0.085	0.078	0.085
		1	12	21.49	21.51	22.03	0.081	0.082	0.092
		1	24	21.62	21.35	21.7	0.084	0.079	0.086
		12	0	20.43	20.51	20.68	0.064	0.065	0.068

		12	6	20.5	20.28	20.59	0.065	0.062	0.066
		12	13	20.52	20.27	20.77	0.065	0.062	0.069
		25	0	20.33	20.37	20.73	0.062	0.103	0.068
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				26740	26865	26990	26740	26865	26990
10MHz	QPSK	1	0	22.12	22.47	22.36	0.094	0.102	0.100
		1	24	22.41	22.43	22.57	0.101	0.101	0.104
		1	49	22.44	22.49	22.57	0.101	0.103	0.104
		25	0	21.24	21.29	21.71	0.077	0.078	0.086
		25	12	21.43	21.49	21.75	0.080	0.081	0.086
		25	25	21.25	21.47	21.82	0.077	0.081	0.088
		50	0	21.32	21.44	21.8	0.078	0.081	0.087
	16QAM	1	0	21.53	21.21	21.75	0.082	0.076	0.086
		1	24	21.5	21.54	21.86	0.082	0.082	0.089
		1	49	21.64	21.46	21.8	0.084	0.081	0.087
		25	0	20.45	20.58	20.73	0.064	0.066	0.068
		25	12	20.33	20.33	20.79	0.062	0.062	0.069
		25	25	20.42	20.49	20.65	0.064	0.065	0.067
		50	0	20.38	20.59	20.62	0.063	0.109	0.067

LTE FDD B38				Conducted Power(dBm)			EIRP (W)		
	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				37775	38000	38225	37775	38000	38225
5MHz	QPSK	1	0	21.17	21.26	21.15	0.217	0.222	0.216
		1	12	21.33	21.54	21.38	0.225	0.237	0.228
		1	24	21.06	21.24	21.26	0.212	0.221	0.222
		12	0	20.19	20.36	20.4	0.173	0.180	0.182
		12	6	20.29	20.41	20.43	0.177	0.182	0.183
		12	13	20.32	20.41	20.51	0.179	0.182	0.187
		25	0	20.19	20.4	20.31	0.173	0.182	0.178
	16QAM	1	0	19.92	20.19	20.55	0.163	0.173	0.188
		1	12	20.1	20.38	20.72	0.170	0.181	0.196
		1	24	19.75	20.21	20.26	0.157	0.174	0.176
		12	0	19.46	19.18	19.34	0.147	0.137	0.143
		12	6	19.43	19.47	19.61	0.146	0.147	0.152
		12	13	19.54	19.51	19.41	0.149	0.148	0.145
		25	0	19.38	19.38	19.42	0.144	0.144	0.145
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				37800	38000	38200	37800	38000	38200
10MHz	QPSK	1	0	21.09	21.03	21.08	0.213	0.210	0.213
		1	24	21.42	21.5	21.39	0.230	0.234	0.229
		1	49	21.2	21.24	21.25	0.219	0.221	0.221
		25	0	20.23	20.47	20.54	0.175	0.185	0.188
		25	12	20.12	20.43	20.34	0.171	0.183	0.179
		25	25	20.28	20.49	20.39	0.177	0.186	0.182
		50	0	20.22	20.34	20.49	0.175	0.179	0.186
	16QAM	1	0	19.68	20.22	20.46	0.154	0.175	0.185
		1	24	20.21	20.39	20.85	0.174	0.182	0.202
		1	49	19.89	20.11	20.24	0.162	0.170	0.175
		25	0	19.23	19.41	19.49	0.139	0.145	0.148
		25	12	19.44	19.4	19.38	0.146	0.145	0.144
		25	25	19.49	19.5	19.45	0.148	0.148	0.146
		50	0	19.32	19.43	19.37	0.142	0.146	0.144
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				37825	38000	38175	37825	38000	38175
15MHz	QPSK	1	0	21.19	21.12	21.24	0.218	0.215	0.221
		1	38	21.46	21.63	21.56	0.232	0.242	0.238
		1	74	20.93	21.25	21.08	0.206	0.221	0.213
		36	0	20.18	20.32	20.49	0.173	0.179	0.186
		36	18	20.32	20.34	20.52	0.179	0.179	0.187
		36	37	20.29	20.34	20.43	0.177	0.179	0.183
		75	0	20.2	20.53	20.51	0.174	0.187	0.187
	16QAM	1	0	19.91	20.13	20.33	0.163	0.171	0.179
		1	38	20.23	20.57	20.72	0.175	0.189	0.196
		1	74	19.76	20.08	20.37	0.157	0.169	0.181

		36	0	19.44	19.4	19.58	0.146	0.145	0.151
		36	18	19.37	19.18	19.6	0.144	0.137	0.151
		36	37	19.56	19.4	19.57	0.150	0.145	0.150
		75	0	19.24	19.46	19.44	0.139	0.147	0.146
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				37850	38000	38150	37850	38000	38150
20MHz	QPSK	1	0	21.37	21.38	21.43	0.228	0.228	0.231
		1	49	21.67	21.76	21.78	0.244	0.249	0.250
		1	99	21.32	21.43	21.39	0.225	0.231	0.229
		50	0	20.55	20.61	20.68	0.188	0.191	0.194
		50	25	20.5	20.6	20.7	0.186	0.191	0.195
		50	50	20.6	20.68	20.69	0.191	0.194	0.195
		100	0	20.58	20.67	20.67	0.190	0.194	0.194
	16QAM	1	0	20.04	20.34	20.68	0.167	0.179	0.194
		1	49	20.35	20.76	20.99	0.180	0.198	0.208
		1	99	20.05	20.44	20.62	0.168	0.184	0.191
		50	0	19.62	19.58	19.7	0.152	0.151	0.155
		50	25	19.61	19.58	19.71	0.152	0.151	0.155
		50	50	19.67	19.69	19.75	0.154	0.155	0.157
		100	0	19.59	19.72	19.71	0.151	0.156	0.155

LTE FDD B41				Conducted Power(dBm)			EIRP (W)		
	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				40065	40615	41215	40065	40615	41215
5MHz	QPSK	1	0	20.97	21.07	21.3	0.218	0.223	0.235
		1	12	21.49	21.67	21.63	0.245	0.256	0.254
		1	24	21.05	21.16	21.39	0.222	0.228	0.240
		12	0	20.28	20.51	20.63	0.186	0.196	0.201
		12	6	20.2	20.36	20.67	0.182	0.189	0.203
		12	13	20.36	20.38	20.55	0.189	0.190	0.198
		25	0	20.47	20.56	20.54	0.194	0.198	0.197
	16QAM	1	0	20.44	20.02	20.39	0.193	0.175	0.191
		1	12	20.55	20.08	20.73	0.198	0.177	0.206
		1	24	20.26	20.03	20.22	0.185	0.175	0.183
		12	0	19.35	19.53	19.66	0.150	0.156	0.161
		12	6	19.21	19.53	19.73	0.145	0.156	0.164
		12	13	19.39	19.54	19.68	0.151	0.157	0.162
		25	0	19.42	19.61	19.54	0.152	0.159	0.157
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				40090	40615	41190	40090	40615	41190
10MHz	QPSK	1	0	21.11	21.21	21.51	0.225	0.230	0.247
		1	24	21.28	21.58	21.85	0.234	0.251	0.267
		1	49	20.97	21.39	21.57	0.218	0.240	0.250
		25	0	20.24	20.27	20.67	0.184	0.185	0.203
		25	12	20.38	20.43	20.66	0.190	0.192	0.203
		25	25	20.4	20.28	20.67	0.191	0.186	0.203
		50	0	20.22	20.47	20.46	0.183	0.194	0.194
	16QAM	1	0	20.28	19.86	20.21	0.186	0.169	0.183
		1	24	20.75	20.35	20.83	0.207	0.189	0.211
		1	49	20.36	20.01	20.45	0.189	0.175	0.193
		25	0	19.25	19.4	19.63	0.147	0.152	0.160
		25	12	19.34	19.47	19.49	0.150	0.154	0.155
		25	25	19.41	19.56	19.74	0.152	0.157	0.164
		50	0	19.3	19.62	19.61	0.148	0.160	0.159
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				40115	40615	41165	40115	40615	41165
15MHz	QPSK	1	0	21.01	21.11	21.27	0.220	0.225	0.233
		1	38	21.38	21.67	21.65	0.239	0.256	0.255
		1	74	21.03	21.1	21.48	0.221	0.224	0.245
		36	0	20.16	20.51	20.43	0.181	0.196	0.192
		36	18	20.28	20.41	20.57	0.186	0.191	0.199
		36	37	20.34	20.36	20.69	0.188	0.189	0.204
		75	0	20.26	20.43	20.68	0.185	0.192	0.204
	16QAM	1	0	20.34	19.99	20.26	0.188	0.174	0.185
		1	38	20.72	20.26	20.58	0.206	0.185	0.199
		1	74	20.26	19.86	20.33	0.185	0.169	0.188

		36	0	19.34	19.5	19.62	0.150	0.155	0.160
		36	18	19.27	19.57	19.73	0.147	0.158	0.164
		36	37	19.54	19.36	19.54	0.157	0.150	0.157
		75	0	19.19	19.4	19.52	0.145	0.152	0.156
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				40140	40615	41140	40140	40615	41140
20MHz	QPSK	1	0	21.32	21.47	21.65	0.236	0.244	0.255
		1	49	21.65	21.82	21.99	0.255	0.265	0.275
		1	99	21.31	21.49	21.67	0.236	0.245	0.256
		50	0	20.44	20.62	20.81	0.193	0.201	0.210
		50	25	20.55	20.6	20.8	0.198	0.200	0.209
		50	50	20.6	20.65	20.85	0.200	0.202	0.212
		100	0	20.61	20.71	20.8	0.200	0.205	0.209
	16QAM	1	0	20.61	20.15	20.54	0.200	0.180	0.197
		1	49	20.92	20.46	20.94	0.215	0.194	0.216
		1	99	20.59	20.19	20.58	0.200	0.182	0.199
		50	0	19.6	19.69	19.83	0.159	0.162	0.167
		50	25	19.58	19.71	19.86	0.158	0.163	0.169
		50	50	19.67	19.75	19.84	0.161	0.164	0.168
		100	0	19.57	19.76	19.89	0.158	0.165	0.170

LTE FDD B66				Conducted Power(dBm)			EIRP (W)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				131979	132322	132665	131979	132322	132665
1.4MHz	QPSK	1	0	21.56	21.89	21.63	0.162	0.175	0.164
		1	2	21.88	21.95	21.69	0.174	0.177	0.167
		1	5	21.79	21.83	21.23	0.171	0.172	0.150
		3	0	20.58	21.18	20.68	0.129	0.148	0.132
		3	1	20.82	20.92	20.88	0.136	0.140	0.138
		3	3	21.11	20.83	20.61	0.146	0.137	0.130
		6	0	20.81	20.94	20.74	0.136	0.140	0.134
	16QAM	1	0	20.55	20.86	20.57	0.128	0.138	0.129
		1	2	20.89	21.24	20.87	0.139	0.150	0.138
		1	5	20.8	20.69	20.38	0.136	0.132	0.123
		3	0	19.62	20.19	19.68	0.104	0.118	0.105
		3	1	19.64	20.13	19.83	0.104	0.116	0.109
		3	3	20.09	19.99	19.54	0.115	0.113	0.102
		6	0	19.81	20.11	19.54	0.108	0.116	0.102
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				191987	132322	132657	191987	132322	132657
3MHz	QPSK	1	0	21.43	21.72	21.82	0.157	0.168	0.172
		1	8	21.96	22.09	21.81	0.177	0.183	0.171
		1	14	21.65	21.78	21.32	0.165	0.170	0.153
		8	0	20.81	20.98	20.9	0.136	0.142	0.139
		8	4	20.6	20.89	20.68	0.130	0.139	0.132
		8	7	20.97	21.07	20.38	0.141	0.145	0.123
		15	0	20.87	20.98	20.68	0.138	0.142	0.132
	16QAM	1	0	20.54	20.92	20.79	0.128	0.140	0.136
		1	8	21.04	21.02	20.82	0.144	0.143	0.136
		1	14	20.84	20.72	20.41	0.137	0.133	0.124
		8	0	19.83	19.98	19.69	0.109	0.112	0.105
		8	4	19.85	19.95	19.69	0.109	0.112	0.105
		8	7	20.04	20	19.64	0.114	0.113	0.104
		15	0	19.96	19.93	19.6	0.112	0.111	0.103
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
				131997	132322	132647	131997	132322	132647
5MHz	QPSK	1	0	21.27	21.8	21.57	0.151	0.171	0.162
		1	12	21.84	22.05	21.85	0.173	0.181	0.173
		1	24	21.78	22	21.12	0.170	0.179	0.146
		12	0	20.62	21.01	20.87	0.130	0.143	0.138
		12	6	20.83	21.04	20.89	0.137	0.144	0.139
		12	13	20.94	20.83	20.41	0.140	0.137	0.124
		25	0	21.02	21.03	20.75	0.143	0.143	0.134
	16QAM	1	0	20.33	20.94	20.66	0.122	0.140	0.132
		1	12	20.98	21.25	20.85	0.142	0.151	0.137
		1	24	20.73	20.79	20.15	0.134	0.136	0.117
		12	0	19.73	20.06	19.67	0.106	0.115	0.105
		12	6	19.91	19.92	19.79	0.111	0.111	0.108

		12	13	19.91	19.86	19.65	0.111	0.109	0.104
		25	0	20.01	19.93	19.72	0.113	0.111	0.106
Bandwidth	**Modulation**	**RB size**	**RB offset**	Channel	Channel	Channel	Channel	Channel	Channel
				132022	132322	132622	132022	132322	132622
10MHz	QPSK	1	0	21.43	21.8	21.6	0.157	0.171	0.163
		1	24	21.81	22.19	21.78	0.171	0.187	0.170
		1	49	21.78	21.8	21.2	0.170	0.171	0.149
		25	0	20.81	21.07	20.67	0.136	0.145	0.132
		25	12	20.76	20.9	20.8	0.135	0.139	0.136
		25	25	21.03	20.87	20.57	0.143	0.138	0.129
		50	0	20.82	21.05	20.68	0.136	0.144	0.132
	16QAM	1	0	20.3	20.76	20.68	0.121	0.135	0.132
		1	24	21.03	21.27	20.73	0.143	0.151	0.134
		1	49	20.94	20.87	20.15	0.140	0.138	0.117
		25	0	19.68	20.1	19.76	0.105	0.116	0.107
		25	12	19.72	19.97	19.78	0.106	0.112	0.107
		25	25	20.15	20.05	19.63	0.117	0.114	0.104
		50	0	20.04	19.83	19.59	0.114	0.109	0.103
Bandwidth	**Modulation**	**RB size**	**RB offset**	Channel	Channel	Channel	Channel	Channel	Channel
				132047	132322	132597	132047	132322	132597
15MHz	QPSK	1	0	21.29	21.75	21.83	0.152	0.169	0.172
		1	38	22.09	21.97	21.64	0.183	0.178	0.165
		1	74	21.78	21.95	21.14	0.170	0.177	0.147
		36	0	20.85	21.14	20.92	0.137	0.147	0.140
		36	18	20.85	21.12	20.76	0.137	0.146	0.135
		36	37	20.93	20.83	20.6	0.140	0.137	0.130
		75	0	20.72	21.03	20.45	0.133	0.143	0.125
	16QAM	1	0	20.45	20.82	20.78	0.125	0.136	0.135
		1	38	20.92	21.3	20.93	0.140	0.152	0.140
		1	74	20.81	20.92	20.36	0.136	0.140	0.123
		36	0	19.91	20.13	19.8	0.111	0.116	0.108
		36	18	19.9	19.92	19.87	0.110	0.111	0.110
		36	37	20.15	19.88	19.56	0.117	0.110	0.102
		75	0	19.84	19.86	19.55	0.109	0.109	0.102
Bandwidth	**Modulation**	**RB size**	**RB offset**	Channel	Channel	Channel	Channel	Channel	Channel
				132072	132322	232572	132072	132322	232572
20MHz	QPSK	1	0	21.67	22.1	21.95	0.166	0.183	0.177
		1	49	22.21	22.32	22.02	0.188	0.193	0.180
		1	99	22.05	22.11	21.5	0.181	0.184	0.160
		50	0	20.98	21.3	21.05	0.142	0.152	0.144
		50	25	20.99	21.29	21	0.142	0.152	0.142
		50	50	21.22	21.19	20.76	0.150	0.149	0.135
		100	0	21.12	21.21	20.85	0.146	0.149	0.137
	16QAM	1	0	20.7	21.09	20.93	0.133	0.145	0.140
		1	49	21.19	21.42	21.09	0.149	0.157	0.145

		1	99	21.04	21.09	20.51	0.144	0.145	0.127
		50	0	20.01	20.33	20.03	0.113	0.122	0.114
		50	25	20.01	20.29	20.04	0.113	0.121	0.114
		50	50	20.29	20.24	19.78	0.121	0.119	0.107
		100	0	20.15	20.22	19.88	0.117	0.119	0.110

8.2. Appendix B: Peak-to-Average Ratio(CCDF)

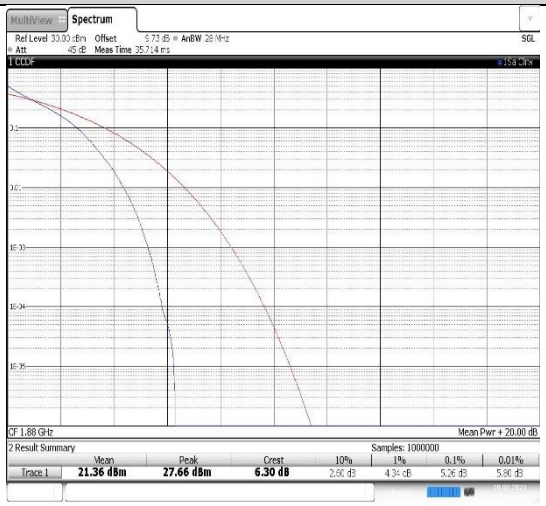
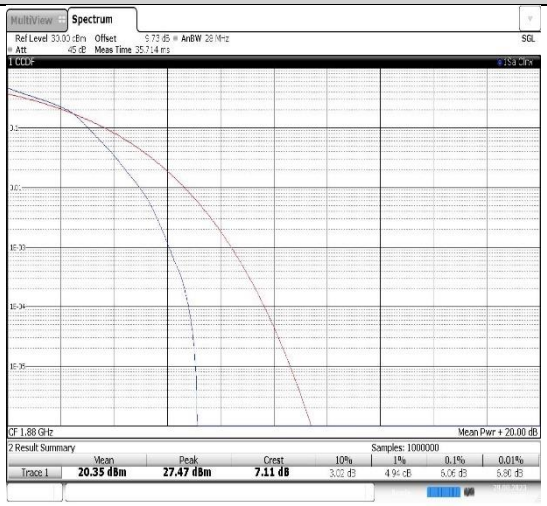
8.2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18900	6RB#0	5.26	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	6.06	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	5.32	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	6.16	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	5.38	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	6.10	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.34	13	PASS
Band2	10MHz	16QAM	18900	50RB#0	6.12	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	5.66	13	PASS
Band2	15MHz	16QAM	18900	75RB#0	6.26	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.44	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.24	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	5.32	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	6.06	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	5.34	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	6.24	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	5.56	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	6.28	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.52	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	6.30	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	5.84	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	6.44	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.56	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.36	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.38	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.18	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.48	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.30	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.56	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.28	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.56	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.32	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.42	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.20	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.40	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.24	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.72	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.38	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.52	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.36	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.46	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.24	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.50	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.36	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.50	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.28	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.40	13	PASS

Band12	10MHz	16QAM	23095	50RB#0	6.22	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.30	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.08	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.36	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.18	13	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	5.24	13	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	6.02	13	PASS
Band25	3MHz	QPSK	26365	15RB#0	5.28	13	PASS
Band25	3MHz	16QAM	26365	15RB#0	6.12	13	PASS
Band25	5MHz	QPSK	26365	25RB#0	5.28	13	PASS
Band25	5MHz	16QAM	26365	25RB#0	6.04	13	PASS
Band25	10MHz	QPSK	26365	50RB#0	5.26	13	PASS
Band25	10MHz	16QAM	26365	50RB#0	6.06	13	PASS
Band25	15MHz	QPSK	26365	75RB#0	5.58	13	PASS
Band25	15MHz	16QAM	26365	75RB#0	6.18	13	PASS
Band25	20MHz	QPSK	26365	100RB#0	5.50	13	PASS
Band25	20MHz	16QAM	26365	100RB#0	6.30	13	PASS
Band26(814-824)	1.4MHz	QPSK	26740	6RB#0	5.36	13	PASS
Band26(814-824)	1.4MHz	16QAM	26740	6RB#0	6.18	13	PASS
Band26(814-824)	3MHz	QPSK	26740	15RB#0	5.44	13	PASS
Band26(814-824)	3MHz	16QAM	26740	15RB#0	6.30	13	PASS
Band26(814-824)	5MHz	QPSK	26740	25RB#0	5.50	13	PASS
Band26(814-824)	5MHz	16QAM	26740	25RB#0	6.26	13	PASS
Band26(814-824)	10MHz	QPSK	26740	50RB#0	5.52	13	PASS
Band26(814-824)	10MHz	16QAM	26740	50RB#0	6.32	13	PASS
Band26(824-849)	1.4MHz	QPSK	26915	6RB#0	5.12	13	PASS
Band26(824-849)	1.4MHz	16QAM	26915	6RB#0	5.96	13	PASS
Band26(824-849)	3MHz	QPSK	26915	15RB#0	5.20	13	PASS
Band26(824-849)	3MHz	16QAM	26915	15RB#0	6.06	13	PASS
Band26(824-849)	5MHz	QPSK	26915	25RB#0	5.44	13	PASS
Band26(824-849)	5MHz	16QAM	26915	25RB#0	6.16	13	PASS
Band26(824-849)	10MHz	QPSK	26915	50RB#0	5.62	13	PASS
Band26(824-849)	10MHz	16QAM	26915	50RB#0	6.38	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	9.34	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	10.00	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.34	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	10.04	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	9.66	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	10.22	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	9.30	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	10.04	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	9.38	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	9.94	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.32	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	10.04	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	9.68	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	10.22	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	9.30	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	10.02	13	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	5.54	13	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	6.32	13	PASS

Band66	3MHz	QPSK	132322	15RB#0	5.56	13	PASS
Band66	3MHz	16QAM	132322	15RB#0	6.42	13	PASS
Band66	5MHz	QPSK	132322	1RB#0	5.66	13	PASS
Band66	5MHz	QPSK	132322	25RB#0	5.62	13	PASS
Band66	5MHz	16QAM	132322	1RB#0	6.12	13	PASS
Band66	5MHz	16QAM	132322	25RB#0	6.38	13	PASS
Band66	10MHz	QPSK	132322	50RB#0	5.76	13	PASS
Band66	10MHz	16QAM	132322	50RB#0	6.52	13	PASS
Band66	15MHz	QPSK	132322	75RB#0	5.96	13	PASS
Band66	15MHz	16QAM	132322	75RB#0	6.56	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.78	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	6.58	13	PASS

8.2.2. Test Graphs

Band2-1.4MHz-QPSK-18900-6RB#0	Band2-1.4MHz-16QAM-18900-6RB#0
	
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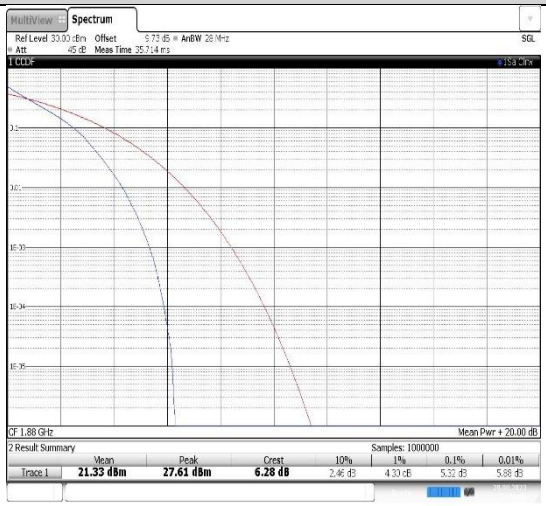	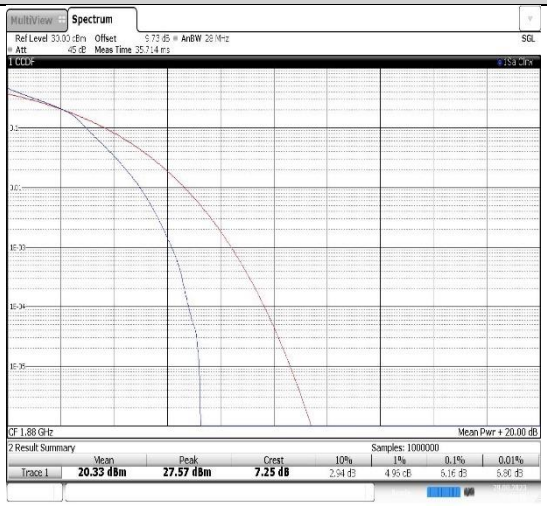
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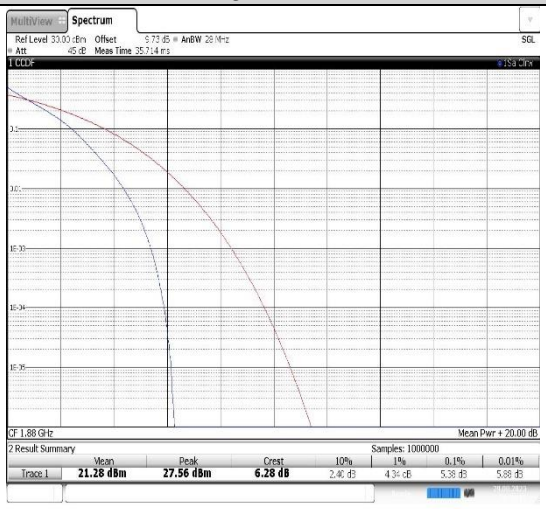
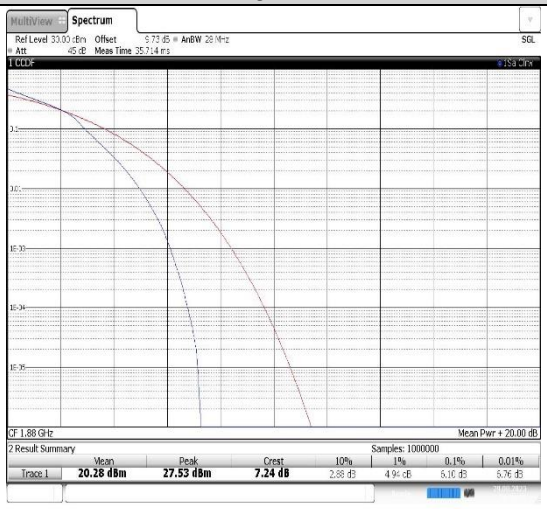
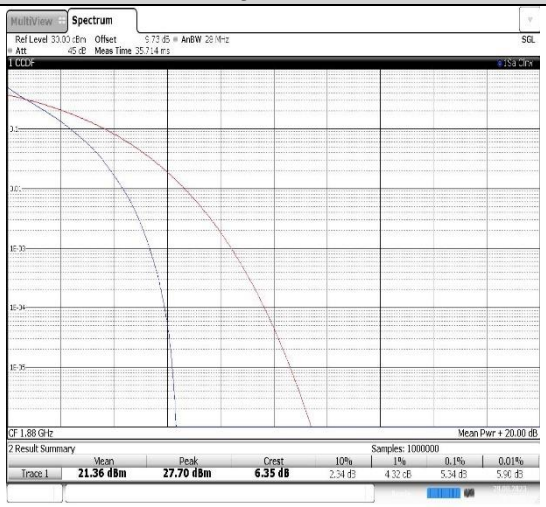
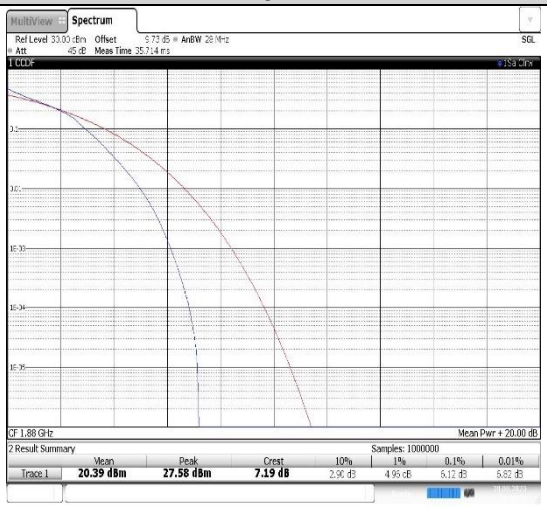
	

Band2-10MHz-QPSK-18900-50RB#0	Band2-10MHz-16QAM-18900-50RB#0
	
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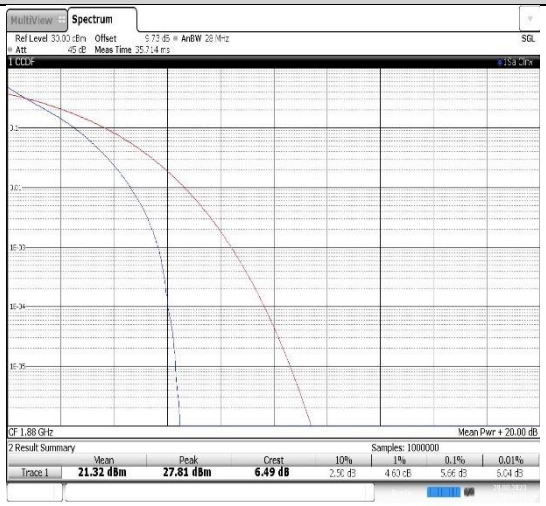	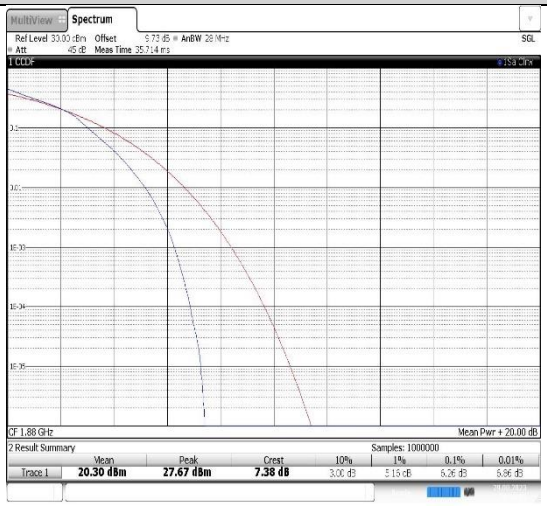
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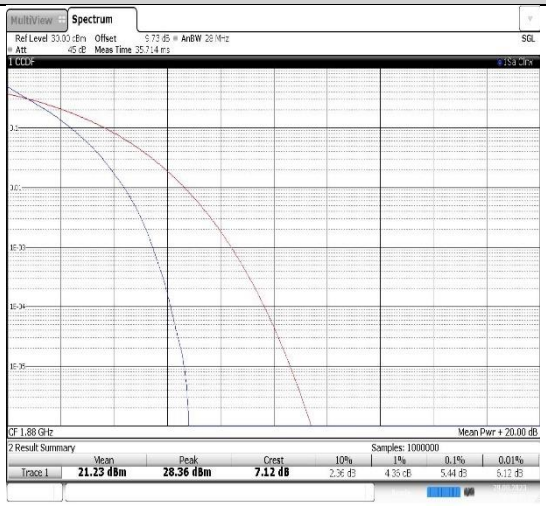	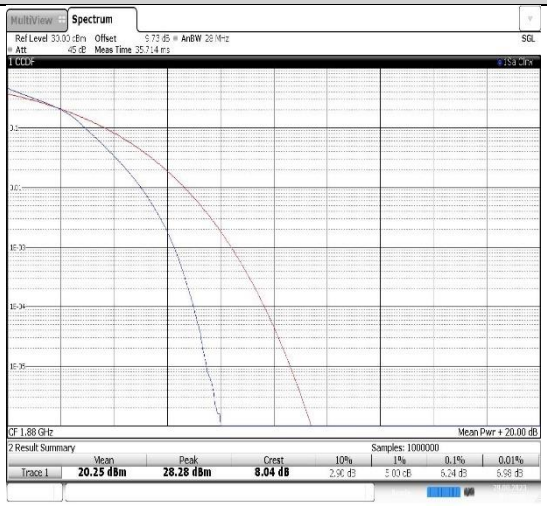
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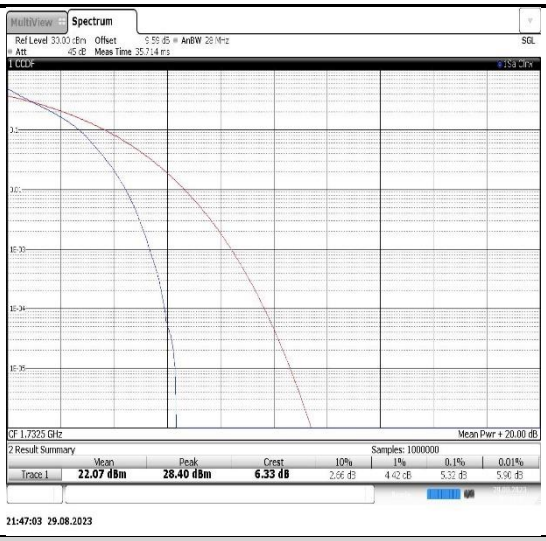
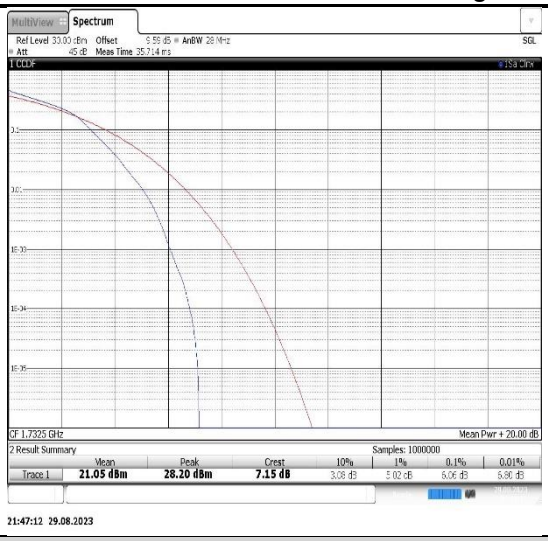
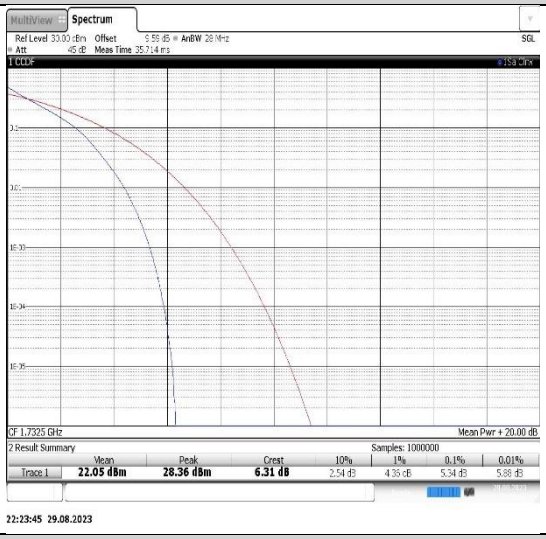


Band4-3MHz-QPSK-20175-15RB#0



Band4-3MHz-16QAM-20175-15RB#0



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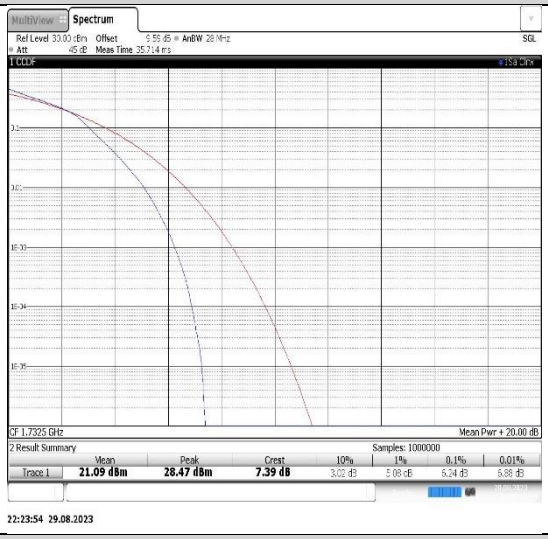

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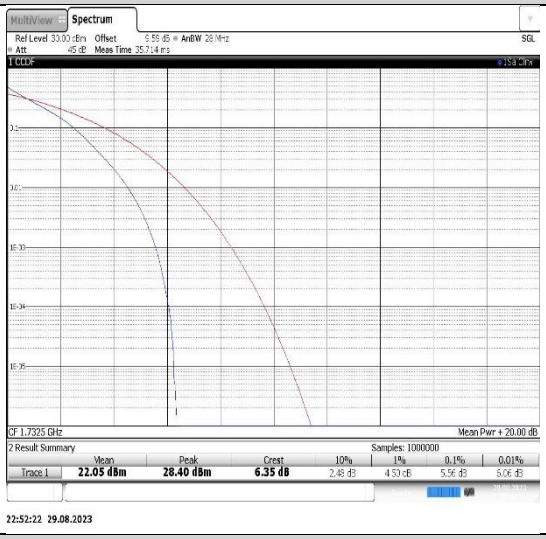
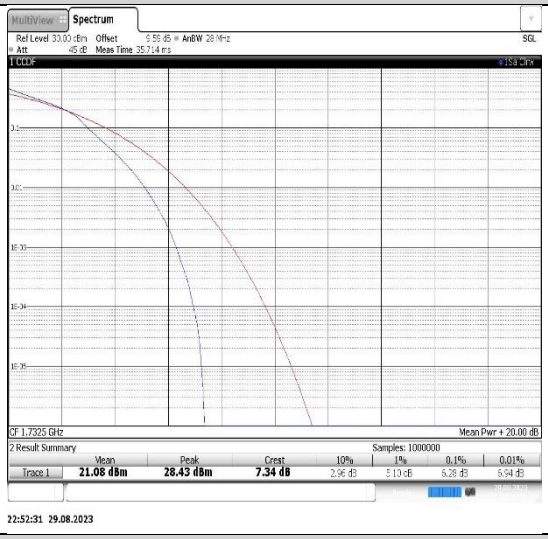
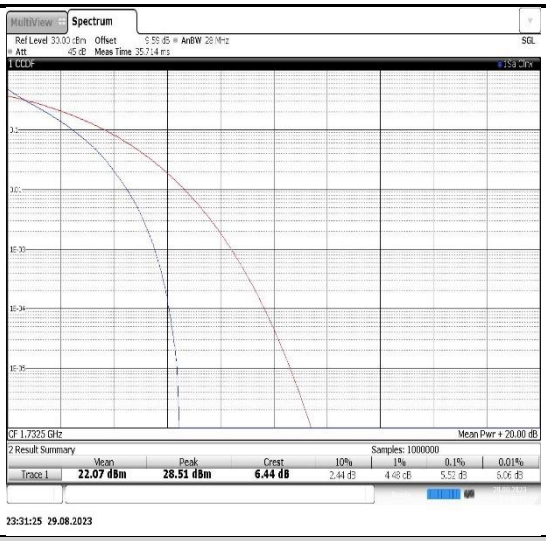


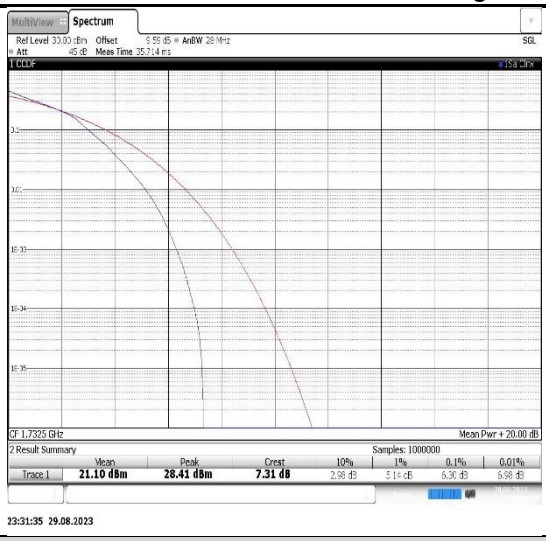
Band4-10MHz-QPSK-20175-50RB#0



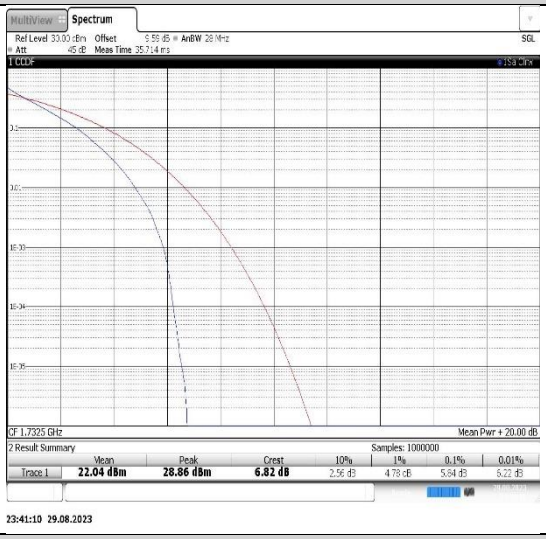
Band4-10MHz-16QAM-20175-50RB#0



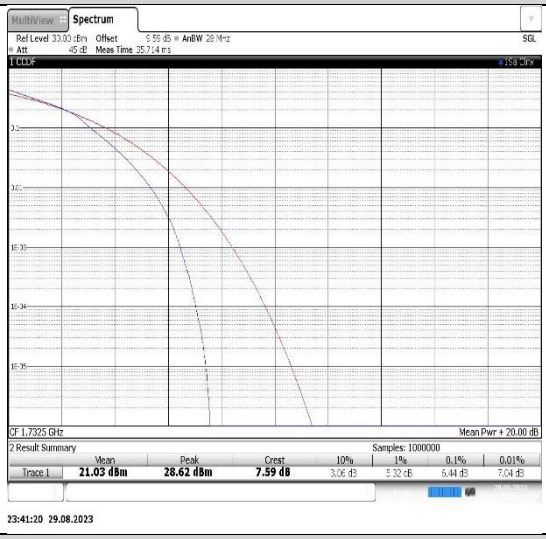
Band4-15MHz-QPSK-20175-75RB#0



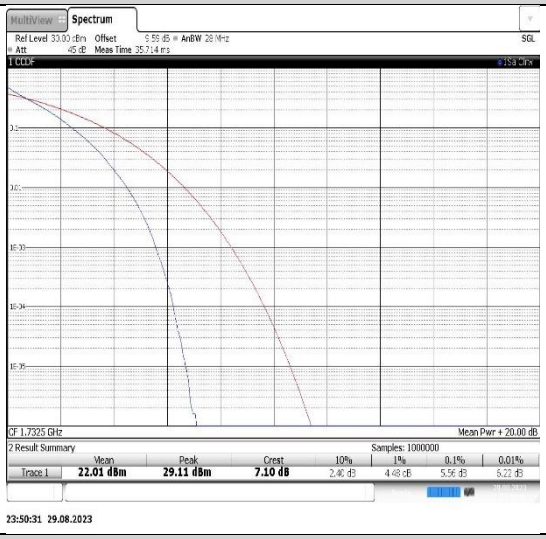
Band4-15MHz-16QAM-20175-75RB#0



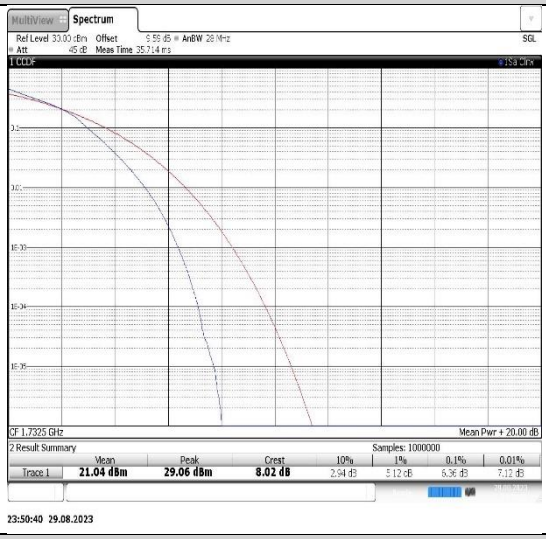
Band4-20MHz-QPSK-20175-100RB#0



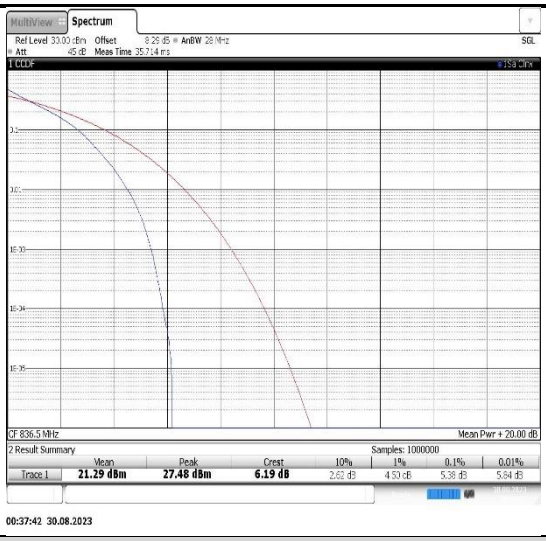
Band4-20MHz-16QAM-20175-100RB#0



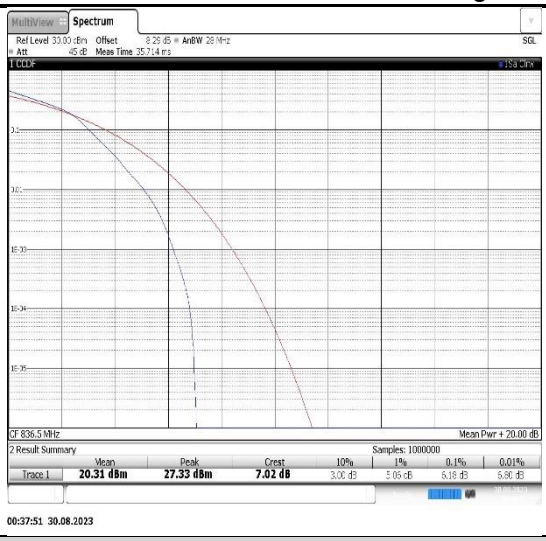
Band5-1.4MHz-QPSK-20525-6RB#0



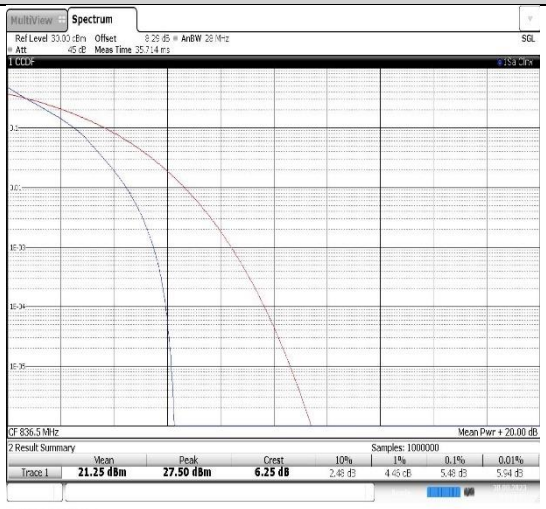
Band5-1.4MHz-16QAM-20525-6RB#0



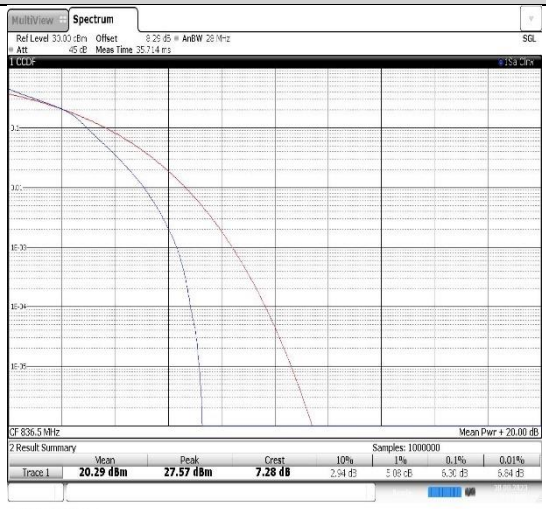
Band5-3MHz-QPSK-20525-15RB#0



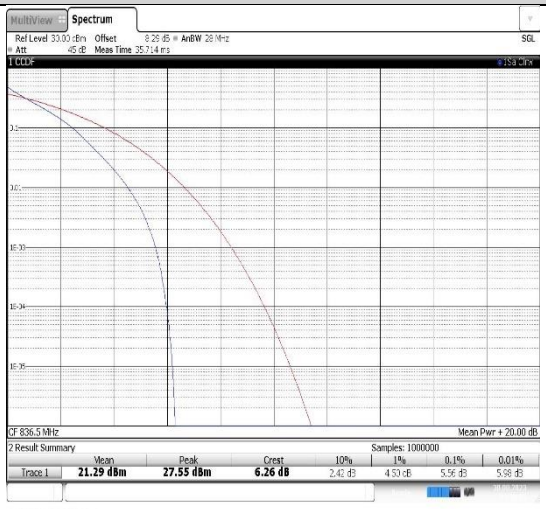
Band5-3MHz-16QAM-20525-15RB#0



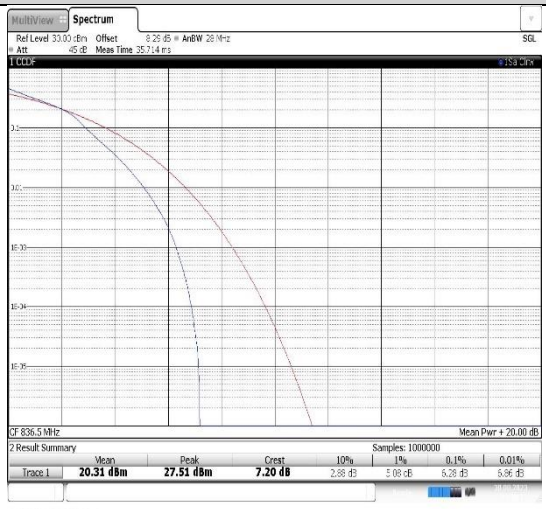
Band5-5MHz-QPSK-20525-25RB#0



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



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



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