  <p>CERTIFICATE 2518.08</p> <p>MS ISO/IEC 17025 TESTING SAMM NO. 0825</p>
<p>MOTOROLA PENANG ADV. COMM. LABORATORY Motorola Solutions Malaysia Sdn Bhd, Plot 2A, Medan Bayan Lepas, Mukim 12 S.W.D, 11900 Bayan Lepas, Penang, Malaysia.</p>	<p>FCC / ISED TEST REPORT Report Revision : Rev.A</p>
<p>Date/s Tested : 04-August-2022 - 17-August-2022 Manufacturer/Location : Motorola Solutions Malaysia Sdn Bhd Manufacturer Address : Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia Requestor : CADOGAN SEAN Product Type : Hand-held Product Version (PMN) : APX N70 Model Number (HVIN) : H35UCT9PW8AN Frequency Band : Refer to section 1.4 Applicant Name : Motorola Solutions Inc Applicant Address : 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322. FCC Registrations : 461337 ISED Registrations : MY0001 Firmware Version (FVIN) : D00.00.45</p> <p>The equipment was tested accordance to the requirement listed below:</p> <p>(LTE Band 12) FCC 47 CFR Part 2 / 27 PASS ISED RSS GEN / 130</p>	
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<p>Prepared By:</p> <hr/> <p>Lim Khay Kwang Technician</p>	<p>Approve Signatory:</p> <hr/> <p>Ho Sze Khian Technical Manager</p>

Table of Contents

1.0.	Summary of Test Results	3
1.1.	Measurement Uncertainty	3
1.2.	Equipment List.....	3
1.3.	General Information.....	4
1.4.	Channel number and frequency info.....	6
1.5.	Test Mode Applicability and Tested Channel Detail.....	6
1.6.	Conducted RF Output Power	9
1.6.1.	Test Setup.....	9
1.6.2.	Limits	9
1.6.3.	Conducted RF Output Power – LTE Band 12 (699-716MHz)	9
1.6.4.	Effective Radiated Power (ERP) - LTE Band 12 (699-716MHz)	11
1.7.	Peak-to-Average Power Ratio.....	13
1.7.1.	Test Setup.....	13
1.7.2.	Test Limit	13
1.7.3.	Peak-to-Average Power Ratio – LTE Band 12 (699-716MHz).....	13
1.8.	Occupied Bandwidth.....	17
1.8.1.	Test Setup.....	17
1.8.2.	Test Limit	17
1.8.3.	Occupied Bandwidth – LTE Band 12 (699-716MHz).....	18
1.9.	Frequency Stability	26
1.9.1.	Test Setup.....	26
1.9.2.	Test Limit	26
1.9.3.	Frequency Stability – LTE Band 12 (699-716MHz)	27
1.10.	Band Edge Conducted Spurious Emission	31
1.10.1.	Test Setup	31
1.10.2.	Test Limit	31
1.10.3.	Band Edge / Emission Mask Conducted Spurious Emission – LTE Band 12 (699-716MHz) 32	
1.11.	Conducted Spurious Emission	40
1.11.1.	Test Setup	40
1.11.2.	Test Limit	40
1.11.3.	Conducted Spurious Emissions – LTE Band 12 (699-716MHz)	41
1.12.	Radiated Spurious Emission	49
1.12.1.	Test Setup	49
1.12.2.	Test Limit	49
1.12.3.	Radiated Spurious Emission – LTE Band 12 (699-716MHz).....	50
1.13.	Effective Radiated Power (ERP)	59
1.13.1.	Test Setup	59
1.13.2.	Test Limit	59
1.13.3.	Effective Radiated Power (ERP) - LTE Band 12 (699-716MHz).....	59

REVISION HISTORY

Revision History	Description	Date	Originator
Rev A.	Initial Report	23-August-2022	Lim Khay Kwang

1.0. Summary of Test Results

FCC Clause	ISED Clause	Test Item	Results	Remarks	Serial Number Tested
2.1046	RSS-Gen 6.12 RSS-130 4.1	Conducted RF Output Power	Pass	Meet the requirement of limit	022TYP0011
-	RSS 130 4.4	Peak-to-Average Power Ratio	Pass	Meet the requirement of limit	022TYP0011
2.1046	RSS-Gen 6.7	Occupied Bandwidth (26dBc, 99%)	Pass	Meet the requirement of limit	022TYP0011
2.1055 27.54	RSS-130 4.3	Frequency Stability	Pass	Meet the requirement of limit	022TYP0011
2.1051 27.53(g)	RSS-Gen 6.13 RSS-130 4.6	Band Edge Conducted Spurious Emission	Pass	Meet the requirement of limit	022TYP0011
2.1051 27.53(g)	RSS-Gen 6.13 RSS-130 4.6	Conducted Spurious Emissions	Pass	Meet the requirement of limit	022TYP0011
2.1053 27.53 (g)	RSS-130 4.6	Radiated Spurious Emission: -42.6324dBm (NF)	Pass	Meet the requirement of limit	022TYP0004
2.1049 27.50(c)(9) (10)	RSS-130 4.4	Effective Radiated Power (ERP)	NA	NA	NA

1.1. Measurement Uncertainty

Measurement	Frequency	Expended Uncertainty (k=1.96) (±dB)
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	5.01
	200MHz ~ 1000MHz	5.01
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.01
	18GHz ~ 25GHz	5.01

1.2. Equipment List

Description	Model	Serial Number	Calibration Date	Calibration Due Date
Broadband ATE 1 (RF Conducted Tests); Test Software Version: CMWRun v1.9.8				
Signal Analyzer	FSV40	101431	02-Dec-21	02-Dec-23
Chamber	SH-641	92003150	17-Sep-21	17-Sep-22
Wideband Radio Communication Tester	CMW500	154550	07-Mar-21	07-Mar-23
Power Supply	6652A	3541A02565	29-Jun-22	29-Jun-23
Radiated Spurious Emission (EMC Chamber 1); Test Software Version: EMC_FCC_RE_v1.6.4				
Drg Horn Freq.	SAS-571	720	06-Apr-21	06-Apr-23

Drg Horn Freq.	SAS-571	719	13-Sep-21	13-Sep-22
Advanced Power System - Dynamic Dc Power Supply, 120v, 16.7a, 2000w	N7976A	MY53410110	30-Jun-22	30-Jun-23
Signal Generator	SMB 100A	182511	04-Jun-21	04-Jun-24
Emi Test Receiver	ESW44	101731	05-Nov-21	05-Nov-22
5m SEMI-ANECHOIC CHAMBER	S800-HX	J2308	No Cal. Req'd	No Cal. Req'd
Bilog Antenna	CBL6112B	2863	22-Jun-22	22-Jun-23
Bilog Antenna	CBL6112D	30991	05-Oct-21	05-Oct-22
Data Logger Thermohygrometer	SDL500	A.016785	23-Jun-22	23-Jun-23
System Controller	SC104V	050806-1	No Cal. Req'd	No Cal. Req'd
Turntable Flush Mount 2m	FM2011	NA	No Cal. Req'd	No Cal. Req'd
Antenna Positioning Tower	TLT2	NA	No Cal. Req'd	No Cal. Req'd
Broad-Band Horn Antenna	BBHA9170	BBHA9170255	18-Feb-22	18-Feb-23
Preamplifier 18-40ghz	BBV9721	9721-007	No Cal. Req'd	No Cal. Req'd
Preamplifier	PAM-0118P	361	11-Sep-20	11-Sep-23
Loop Antenna	6502	00208416	08-Oct-21	08-Oct-22
Test Software	EMC_FCC_IC_BLUETOOTH_RE_TEST			

1.3. General Information

General Description of EUT

Product	ALOHA		
Brand	Motorola Solutions		
Test Model	H35UCT9PW8AN		
Power Supply Rating	7.5Vdc		
Mode of operation	LTE Band 12		
Modulation Type	QPSK, 16QAM		
Operating Frequency	LTE Band 12	Channel Bandwidth 1.4MHz	699.7MHz~715.3MHz
		Channel Bandwidth 3MHz	700.5MHz~714.5MHz
		Channel Bandwidth 5MHz	701.5MHz~713.5MHz
		Channel Bandwidth 10MHz	704.0MHz~711.0MHz
Max. Conducted Power	LTE Band 12 QPSK	Channel Bandwidth 1.4MHz	23.012dBm (0.200W)
		Channel Bandwidth 3MHz	23.089dBm (0.204W)
		Channel Bandwidth 5MHz	23.014dBm (0.200W)
		Channel Bandwidth 10MHz	23.355dBm (0.217W)
	LTE Band 12 16QAM	Channel Bandwidth 1.4MHz	22.126dBm (0.163W)
		Channel Bandwidth 3MHz	22.068dBm (0.161W)
		Channel Bandwidth 5MHz	22.183dBm (0.165W)
		Channel Bandwidth 10MHz	22.379dBm (0.173W)
Emission Designator	LTE Band 12		QPSK 16QAM
		Channel Bandwidth 1.4MHz	1M09G7D 1M08D7W

		Channel Bandwidth 3MHz	2M68G7D	2M68D7W
		Channel Bandwidth 5MHz	4M47G7D	4M47D7W
		Channel Bandwidth 10MHz	8M93G7D	8M93D7W
Antenna Type	LTE Band 12	LTE LOW BAND MAIN ANTENNA (-2.9dBi)		
SW Version	D00.00.45			
HW Version	P1			

Note:

1. The EUT contains following accessory devices and data cable.

Item	Brand	Model or P/N	Specification
Li-Ion	Motorola	PMNN4817A	Hi Cap 4400mAH (using RN 2170 Li-Ion cell) Non-UL battery

Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	Product	Brand	Model No.	Serial No.	FCC ID
1	Wideband Radio Communication Tester	R&S	CMW500	154550	NA

NO.	Signal Cable Description of The above Support Units
1	NA

Note:

1. All power cords of the above support units are non-shielded.
2. Item 1 acted as a communication partner to transfer data.

EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

KDB 971168 D01 Power Meas License Digital Systems v03r01

KDB 971168 D02 Misc OOB License Digital Systems v02r01

ANSI C63.26

NOTE: All test items have been performed and recorded as per the above standards.

1.4. Channel number and frequency info.

Band	Bandwidth supported	Available Channel Number	Test Channel Number			Test Channel Frequency (MHz)		
			Low Channel	Mid Channel	High Channel	Low Channel	Mid Channel	High Channel
LTE Band 12	1.4 MHz	23017 ~ 23173	23017	23095	23173	699.7	707.5	715.3
	3 MHz	23025 ~ 23165	23025	23095	23165	700.5	707.5	714.5
	5 MHz	23035 ~ 23155	23035	23095	23155	701.5	707.5	713.5
	10 MHz	23060 ~ 23130	23060	23095	23130	704.0	707.5	711.0

1.5. Test Mode Applicability and Tested Channel Detail.

LTE Band 12

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Uplink Modulation	Mode
Conducted RF Output Power	23017 ~ 23173	23017, 23095, 23173	1.4 MHz	QPSK, 16QAM	As per table 1.6.3
	23025 ~ 23165	23025, 23095, 23165	3 MHz		
	23035 ~ 23155	23035, 23095, 23155	5 MHz		
	23060 ~ 23130	23060, 23095, 23130	10 MHz		
Peak to Average Power Ratio	23017 ~ 23173	23017, 23095, 23173	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
	23025 ~ 23165	23025, 23095, 23165	3 MHz		15 RB / 0 RB Offset
	23035 ~ 23155	23035, 23095, 23155	5 MHz		25 RB / 0 RB Offset
	23060 ~ 23130	23060, 23095, 23130	10 MHz		50 RB / 0 RB Offset
Occupied Bandwidth	23017 ~ 23173	23017, 23095, 23173	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
	23025 ~ 23165	23025, 23095, 23165	3 MHz		15 RB / 0 RB Offset
	23035 ~ 23155	23035, 23095, 23155	5 MHz		25 RB / 0 RB Offset
	23060 ~ 23130	23060, 23095, 23130	10 MHz		50 RB / 0 RB Offset
Frequency Stability	23017 ~ 23173	23017, 23173	1.4 MHz	QPSK	6 RB / 0 RB Offset
	23025 ~ 23165	23025, 23165	3 MHz		15 RB / 0 RB Offset
	23035 ~ 23155	23035, 23155	5 MHz		25 RB / 0 RB Offset
	23060 ~ 23130	23060, 23130	10 MHz		50 RB / 0 RB Offset

Band Edge Conducted Spurious Emission	23017 ~ 23173	23017, 23173	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
					1 RB / 5 RB Offset
	23025 ~ 23165	23025, 23165	3 MHz		6 RB / 0 RB Offset
					1 RB / 0 RB Offset
	23035 ~ 23155	23035, 23155	5 MHz		1 RB / 14 RB Offset
					15 RB / 0 RB Offset
					1 RB / 0 RB Offset
					1 RB / 24 RB Offset
					25 RB / 0 RB Offset
	23060 ~ 23130	23060, 23130	10 MHz		1 RB / 0 RB Offset
					1 RB / 49 RB Offset
					50 RB / 0 RB Offset
Conducted Spurious Emission	23017 ~ 23173	23017, 23095, 23173	1.4 MHz	QPSK	3 RB / 0 RB Offset
	23025 ~ 23165	23025, 23095, 23165	3 MHz		1 RB / 0 RB Offset
	23035 ~ 23155	23035, 23095, 23155	5 MHz		1 RB / 0 RB Offset
	23060 ~ 23130	23060, 23095, 23130	10 MHz		1 RB / 0 RB Offset
Radiated Spurious Emission	23035 ~ 23155	23035	10 MHz	QPSK	1 RB / 0 RB Offset
	23060 ~ 23130	23095	10 MHz		1 RB / 0 RB Offset
	23060 ~ 23130	23130	10 MHz		1 RB / 0 RB Offset
Effective Radiated Power (ERP)	23017 ~ 23173	23017, 23095, 23173	1.4 MHz	QPSK, 16QAM	As per table 1.6.4
	23025 ~ 23165	23025, 23095, 23165	3 MHz		
	23035 ~ 23155	23035, 23095, 23155	5 MHz		
	23060 ~ 23130	23060, 23095, 23130	10 MHz		

NOTE:

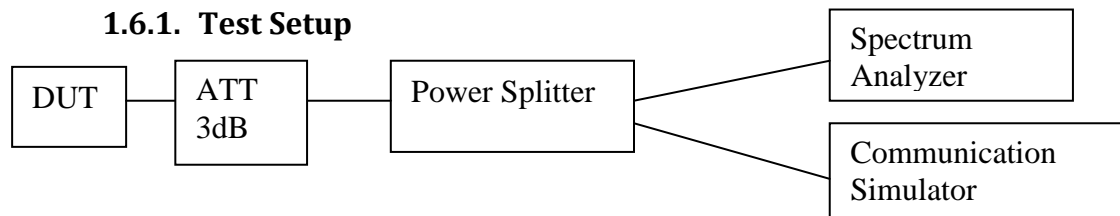
1. The Conducted RF Output Power for QPSK and 16QAM, measured value of QPSK mode is higher than 16QAM mode. Therefore, only Conducted Spurious Emission and Radiated Emission had been tested under QPSK modes.
2. Band Edge was performed with 1 and full Resource Block at the lowest and highest operating frequency band.
3. The Effective Radiated Power (ERP) was calculated from Conducted RF Output Power results in QPSK and 16QAM modulation.
4. Peak to Average and Occupied Bandwidth were performed with full Resource Block which is the worst case.
5. Frequency stability was performed with full Resource Block in QPSK modulation.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
Conducted RF Output Power	25°C, 50% RH	7.5V DC	Khay Kwang
Peak-to-Average Power Ratio	25°C, 50% RH	7.5V DC	Khay Kwang
Occupied Bandwidth	25°C, 50% RH	7.5V DC	Khay Kwang
Frequency Stability	25°C, 50% RH	7.5V DC	Khay Kwang
Band Edge Conducted Spurious Emission	25°C, 50% RH	7.5V DC	Khay Kwang
Conducted Spurious Emission	25°C, 50% RH	7.5V DC	Khay Kwang
Radiated Spurious Emission	25°C, 63.7% RH	7.5V DC	Qawiman&Nazrin
Equivalent Isotropically Radiated Power (EIRP)	25°C, 63.7% RH	7.5V DC	Khay Kwang

1.6. Conducted RF Output Power

1.6.1. Test Setup



1. The DUT transmitter output port was connected to communication simulator with above setup.
2. Path loss for the measurement included.
3. Set DUT to transmit maximum power through communication simulator
4. All the measurement was done at low, mid, high channel for each band and different modulation.
5. Record the average power into the test report.

1.6.2. Limits

FCC: 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.

ISED: The e.i.r.p. shall not exceed 50 watts for mobile equipment or for outdoor fixed subscriber equipment, nor shall it exceed 5 watts for portable equipment or for indoor fixed subscriber equipment.

1.6.3. Conducted RF Output Power – LTE Band 12 (699-716MHz)

Conducted Output Power (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			23017	23095	23173	23017	23095	23173
			699.7 MHz	707.5 MHz	715.3 MHz	699.7 MHz	707.5 MHz	715.3 MHz
Band 12 / 1.4 MHz	1	0	22.988	22.766	22.773	22.126	21.751	21.795
	1	3	22.962	22.757	22.869	22.018	21.756	21.862
	1	5	22.942	22.735	22.79	21.973	21.737	21.805
	3	0	23.012	22.717	22.723	22.004	21.937	21.89
	3	2	22.951	22.74	22.789	21.879	21.868	21.924
	3	3	22.894	22.669	22.74	21.877	21.862	21.909
	6	0	22.042	21.64	21.691	21.037	20.733	20.802

Conducted Output Power (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			23025	23095	23165	23025	23095	23165
			700.5 MHz	707.5 MHz	714.5 MHz	700.5 MHz	707.5 MHz	714.5 MHz
Band 12 / 3MHz	1	0	23.089	22.726	22.809	22.059	22.011	21.849
	1	7	23.001	22.656	22.817	21.899	22.068	21.882
	1	14	22.949	22.685	22.862	21.894	21.941	21.846
	8	0	21.942	21.763	21.75	20.972	20.95	20.704
	8	4	21.953	21.738	21.89	21.008	20.903	20.842
	8	7	21.953	21.744	21.841	21.013	20.898	20.818
	15	0	21.92	21.722	21.808	20.946	20.775	20.822

Conducted Output Power (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			23035	23095	23155	23035	23095	23155
			701.5 MHz	707.5 MHz	713.5 MHz	701.5 MHz	707.5 MHz	713.5 MHz
Band 12 / 5MHz	1	0	23.014	22.864	22.774	22.183	22.029	21.791
	1	13	22.903	22.784	22.741	21.959	22.013	21.788
	1	25	22.867	22.739	22.845	21.884	21.916	21.887
	12	0	21.944	21.745	21.793	20.896	20.804	20.802
	12	6	21.897	21.7	21.768	20.868	20.745	20.809
	12	13	21.942	21.7	21.829	20.916	20.732	20.911
	25	0	21.897	21.746	21.806	20.923	20.753	20.716

Conducted Output Power (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			23060	23095	23130	23060	23095	23130
			704.0 MHz	707.5 MHz	711.0 MHz	704.0 MHz	707.5MHz	711.0 MHz
Band 12 / 10MHz	1	0	23.355	23.048	23.04	22.294	22.379	22.087
	1	25	22.933	22.674	22.765	21.87	22.038	21.818
	1	49	22.999	22.907	22.957	21.946	22.199	22
	25	0	21.917	21.886	21.733	21.066	20.953	20.862
	25	13	21.874	21.779	21.766	20.996	20.823	20.866
	25	25	21.807	21.735	21.816	20.895	20.785	20.845
	50	0	21.861	21.804	21.728	20.873	20.848	20.725

1.6.4. Effective Radiated Power (ERP) - LTE Band 12 (699-716MHz)

ERP (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			23017	23095	23173	23017	23095	23173
			699.7 MHz	707.5 MHz	715.3 MHz	699.7 MHz	707.5 MHz	715.3 MHz
Band 12 / 1.4 MHz	1	0	17.938	17.716	17.723	17.076	16.701	16.745
	1	3	17.912	17.707	17.819	16.968	16.706	16.812
	1	5	17.892	17.685	17.74	16.923	16.687	16.755
	3	0	17.962	17.667	17.673	16.954	16.887	16.84
	3	2	17.901	17.69	17.739	16.829	16.818	16.874
	3	3	17.844	17.619	17.69	16.827	16.812	16.859
	6	0	16.992	16.59	16.641	15.987	15.683	15.752

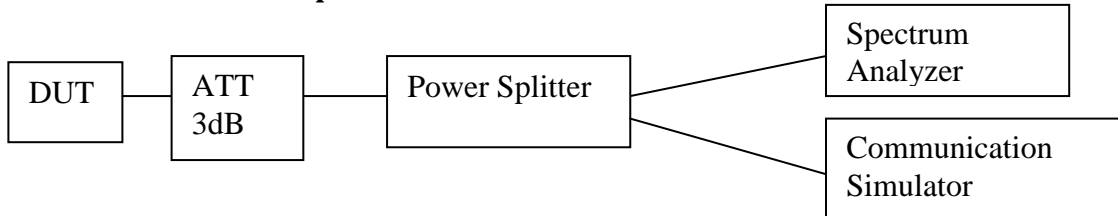
ERP (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			23025	23095	23165	23025	23095	23165
			700.5 MHz	707.5 MHz	714.5 MHz	700.5 MHz	707.5 MHz	714.5 MHz
Band 12 / 3MHz	1	0	18.039	17.676	17.759	17.009	16.961	16.799
	1	7	17.951	17.606	17.767	16.849	17.018	16.832
	1	14	17.899	17.635	17.812	16.844	16.891	16.796
	8	0	16.892	16.713	16.7	15.922	15.9	15.654
	8	4	16.903	16.688	16.84	15.958	15.853	15.792
	8	7	16.903	16.694	16.791	15.963	15.848	15.768
	15	0	16.87	16.672	16.758	15.896	15.725	15.772

ERP (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			23035	23095	23155	23035	23095	23155
			701.5 MHz	707.5 MHz	713.5 MHz	701.5 MHz	707.5 MHz	713.5 MHz
Band 12 / 5MHz	1	0	17.964	17.814	17.724	17.133	16.979	16.741
	1	13	17.853	17.734	17.691	16.909	16.963	16.738
	1	25	17.817	17.689	17.795	16.834	16.866	16.837
	12	0	16.894	16.695	16.743	15.846	15.754	15.752
	12	6	16.847	16.65	16.718	15.818	15.695	15.759
	12	13	16.892	16.65	16.779	15.866	15.682	15.861
	25	0	16.847	16.696	16.756	15.873	15.703	15.666

ERP (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			23060	23095	23130	23060	23095	23130
			704.0 MHz	707.5 MHz	711.0 MHz	704.0 MHz	707.5MHz	711.0 MHz
Band 12 / 10MHz	1	0	18.305	17.998	17.99	17.244	17.329	17.037
	1	25	17.883	17.624	17.715	16.82	16.988	16.768
	1	49	17.949	17.857	17.907	16.896	17.149	16.95
	25	0	16.867	16.836	16.683	16.016	15.903	15.812
	25	13	16.824	16.729	16.716	15.946	15.773	15.816
	25	25	16.757	16.685	16.766	15.845	15.735	15.795
	50	0	16.811	16.754	16.678	15.823	15.798	15.675

1.7. Peak-to-Average Power Ratio

1.7.1. Test Setup



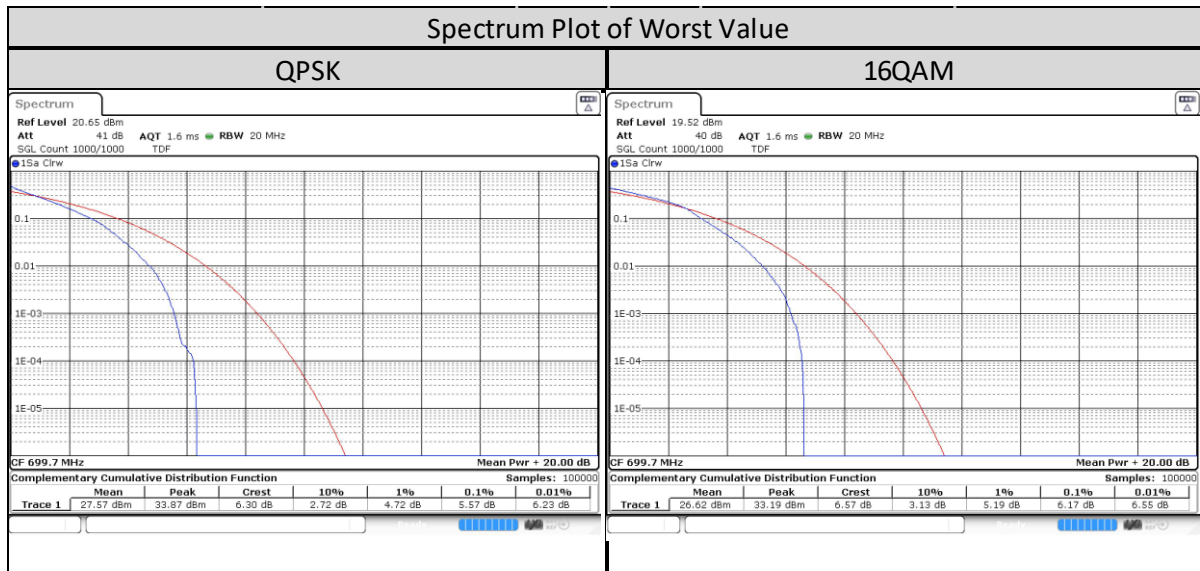
1. The DUT transmitter output port was connected to communication simulator with above setup.
2. Path loss for the measurement included.
3. Set DUT to transmit maximum power through communication simulator
4. Set the CCDF (Complementary Cumulative Distribution Function) option in the spectrum analyzer.
5. Spectrum Analyzer setting, RBW = 20MHz.
6. Recorded the maximum PAR level associated with a probability of 0.1% as Peak to Average Ratio.
7. All the measurement was done at low, mid, high channel for each band and different modulation.

1.7.2. Test Limit

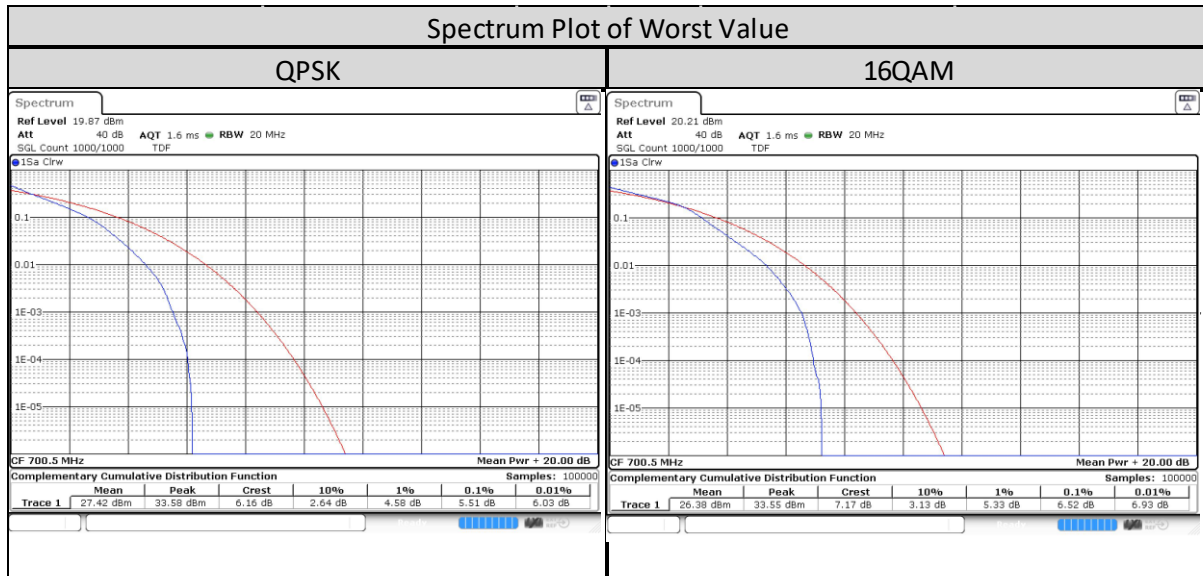
In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

1.7.3. Peak-to-Average Power Ratio - LTE Band 12 (699-716MHz)

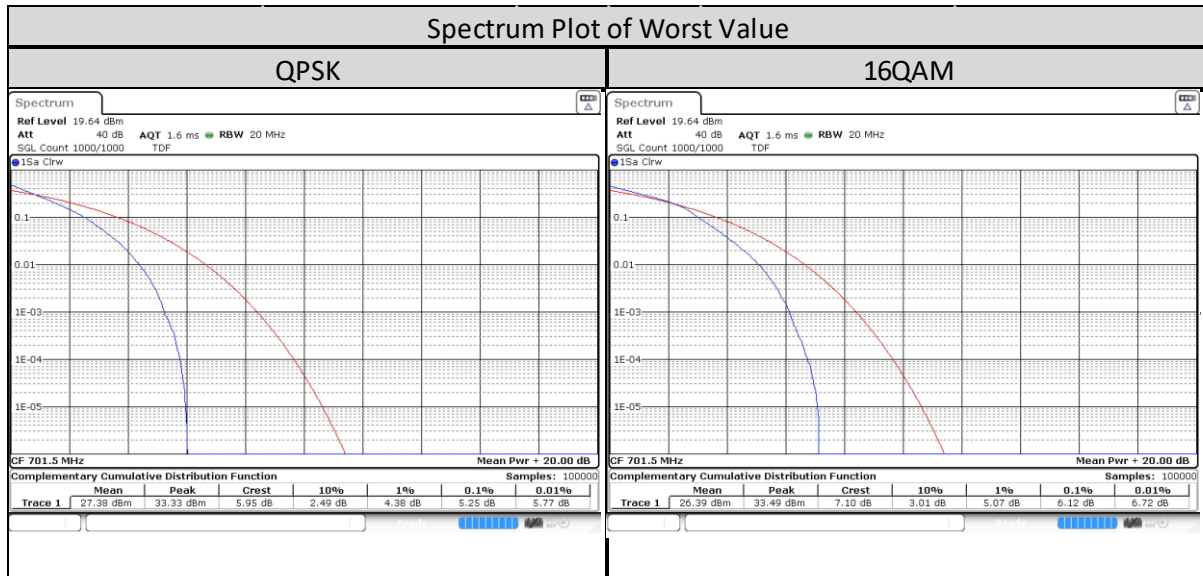
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 12/1.4MHz/6/0	Low CH 23017	699.7 MHz	5.565	6.174
	Mid CH 23095	707.5 MHz	5.217	5.71
	High CH 23173	715.3 MHz	4.58	5.333



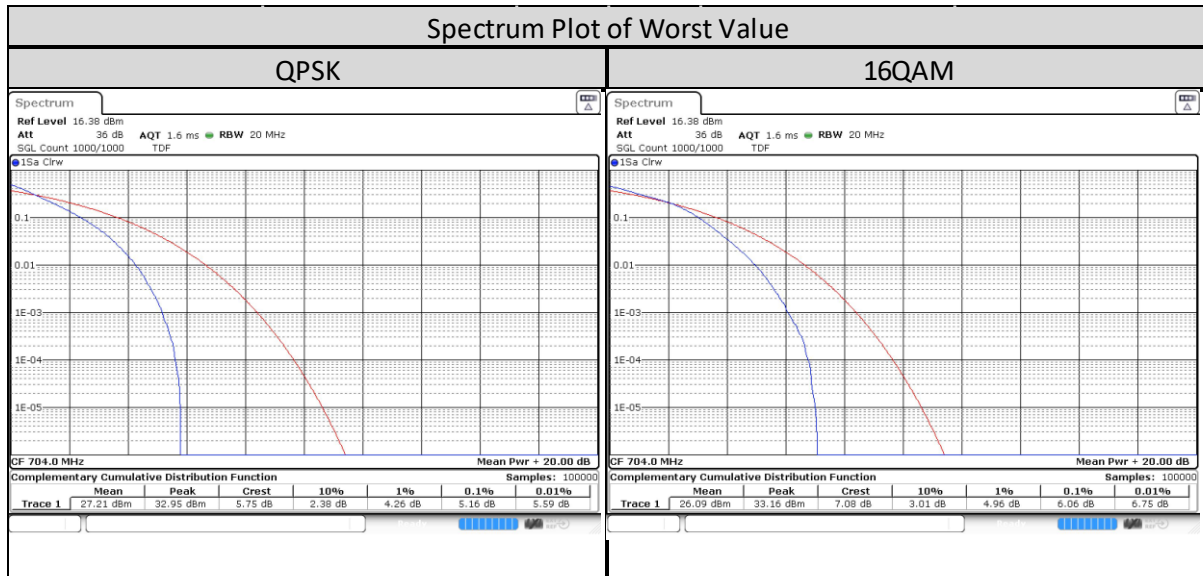
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 12/3MHz/15/0	Low CH 23025	700.5 MHz	5.507	6.522
	Mid CH 23095	707.5 MHz	5.188	6.116
	High CH 23165	714.5 MHz	4.377	5.449



LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 12/5MHz/25/0	Low CH 23035	701.5 MHz	5.246	6.116
	Mid CH 23095	707.5 MHz	5.246	5.971
	High CH 23155	713.5 MHz	4.87	5.565

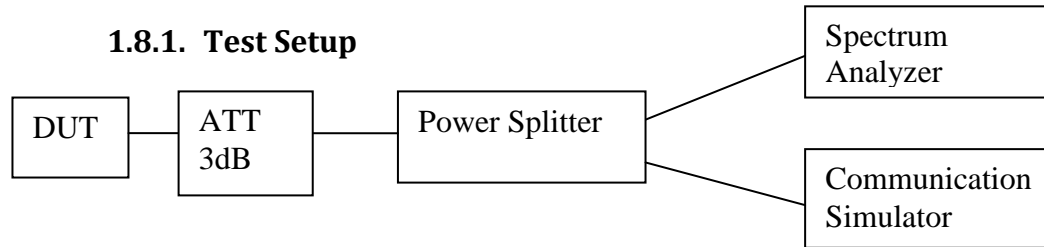


LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 12/10MHz/50/0	Low CH 23060	704 MHz	5.159	6.058
	Mid CH 23095	707.5 MHz	5.159	5.913
	High CH 23130	711 MHz	4.87	5.797



1.8. Occupied Bandwidth

1.8.1. Test Setup



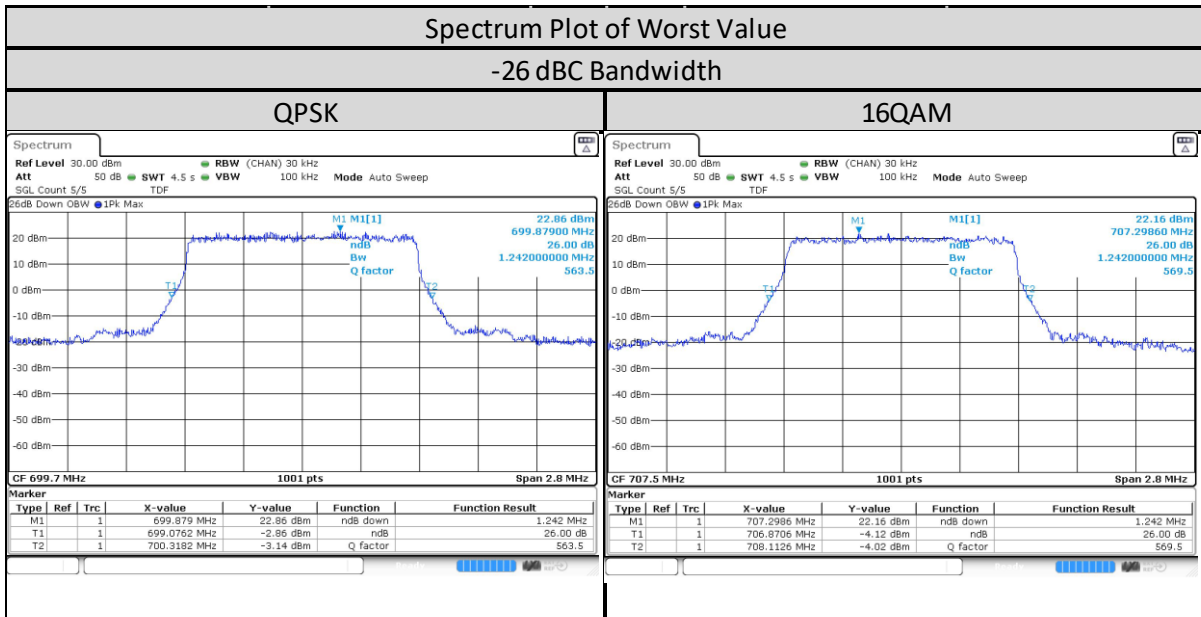
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) For LTE measurement, set DUT to transmit maximum power & full RB size through communication simulator.
- 4) For LTE measurement, set DUT to transmit maximum power through communication simulator.
- 5) Spectrum Analyzer setting, RBW is 1% of OBW and VBW is 3 times of RBW.
- 6) Measure & record -26dBc and 99% occupied bandwidth (BW).
- 7) All the measurement was done at low, mid, high channel for each band and different modulation.

1.8.2. Test Limit

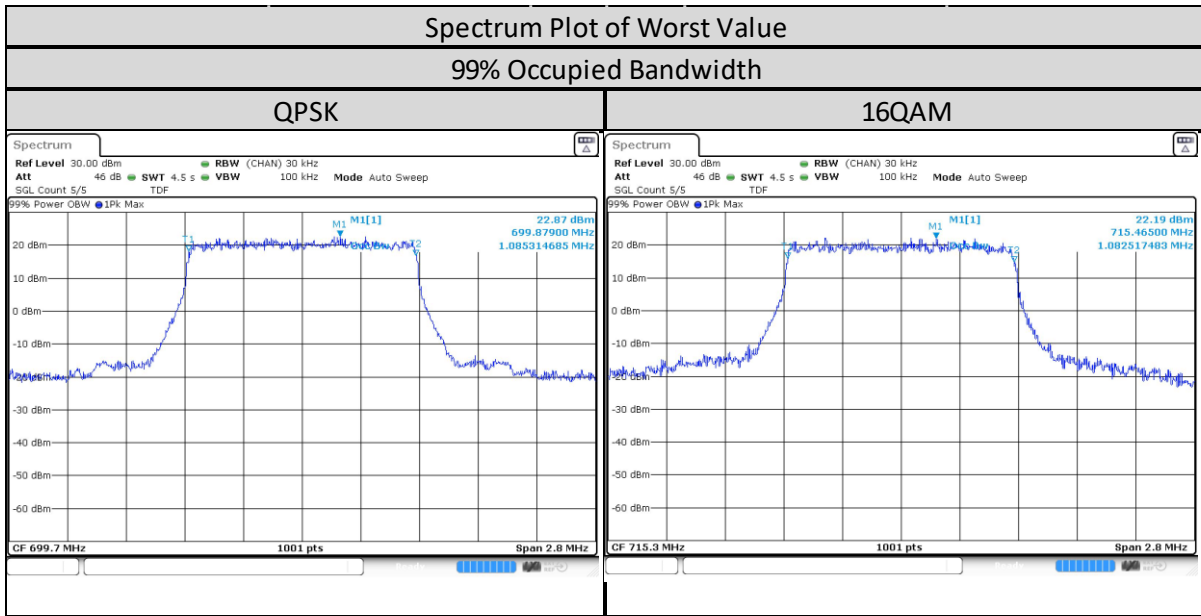
For measurement 99% of occupied bandwidth that is required by FCC 2.1049 and RSS Gen 6.6.

1.8.3. Occupied Bandwidth - LTE Band 12 (699-716MHz)

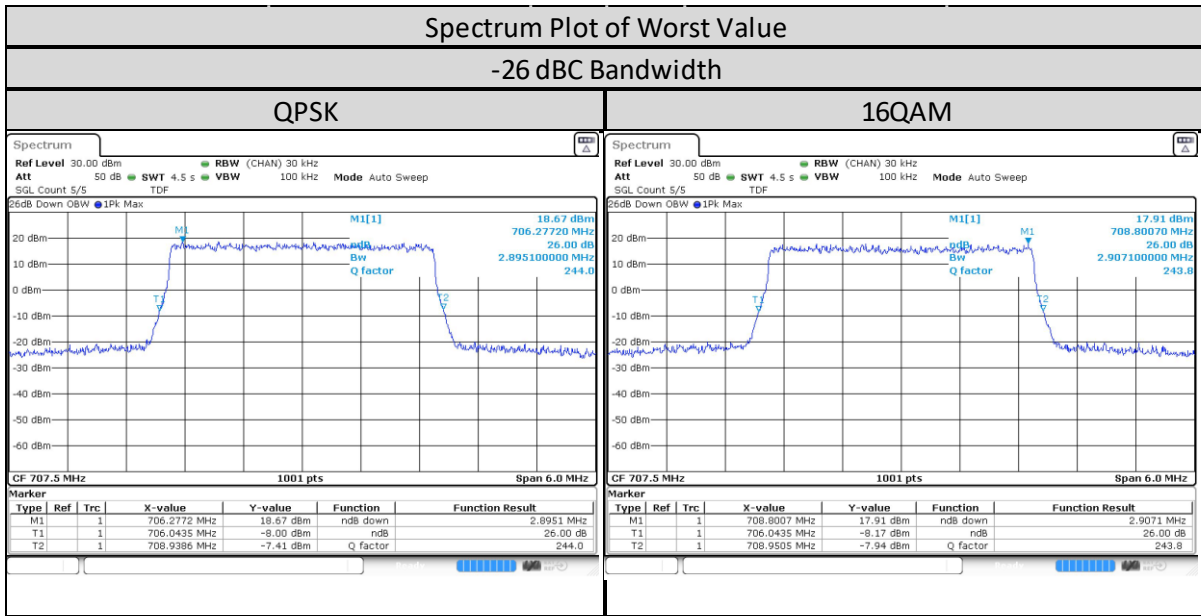
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 12/1.4MHz/6/0	Low CH 23017	699.7 MHz	1.242	1.234
	Mid CH 23095	707.5 MHz	1.239	1.242
	High CH 23173	715.3 MHz	1.239	1.236



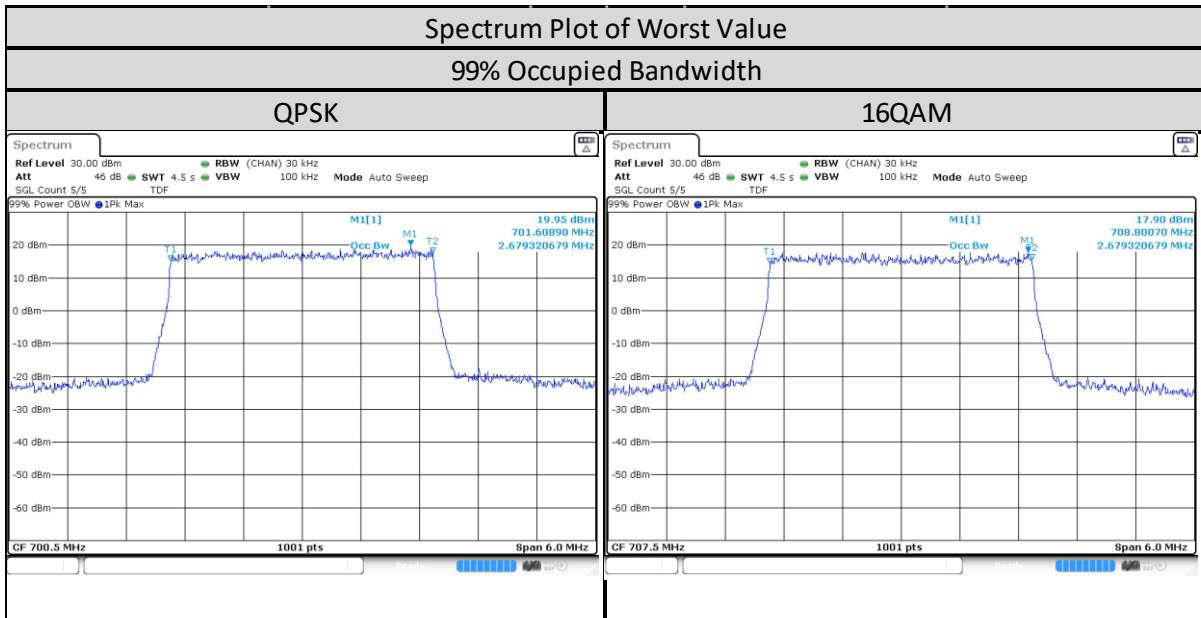
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 12/1.4MHz/6/0	Low CH 23017	699.7 MHz	1.085	1.08
	Mid CH 23095	707.5 MHz	1.08	1.08
	High CH 23173	715.3 MHz	1.083	1.083



LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 12/3MHz/15/0	Low CH 23025	700.5 MHz	2.883	2.889
	Mid CH 23095	707.5 MHz	2.895	2.907
	High CH 23165	714.5 MHz	2.889	2.889



LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 12/3MHz/15/0	Low CH 23025	700.5 MHz	2.679	2.673
	Mid CH 23095	707.5 MHz	2.679	2.679
	High CH 23165	714.5 MHz	2.673	2.679



LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 12/5MHz/25/0	Low CH 23035	701.5 MHz	4.745	4.725
	Mid CH 23095	707.5 MHz	4.795	4.735
	High CH 23155	713.5 MHz	4.745	4.775

