

	    <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.C</p>																												
<table><tr><td>Date/s Tested</td><td>: 31-March-2022 - 25-June-2022</td></tr><tr><td>Manufacturer/Location</td><td>: Motorola Solutions Malaysia Sdn Bhd</td></tr><tr><td>Manufacturer Address</td><td>: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>Requestor</td><td>: SIEW KHENG TAN</td></tr><tr><td>Product Type</td><td>: Hand-held</td></tr><tr><td>Product Version (PMN)</td><td>: MSLB-MKZ920</td></tr><tr><td>Model Number (HVIN)</td><td>: AAH90UCU9RH1AN</td></tr><tr><td>Frequency Band</td><td>: Refer to section 1.4</td></tr><tr><td>Applicant Name</td><td>: Motorola Solutions Inc</td></tr><tr><td>Applicant Address</td><td>: 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322.</td></tr><tr><td>FCC Registrations</td><td>: 461337</td></tr><tr><td>ISED Registrations</td><td>: MY0001</td></tr><tr><td>Firmware Version (FVIN)</td><td>: D02.22.01.0103 (BP), D00.01.86 (AP)</td></tr></table>  <p>The equipment was tested accordance to the requirement listed below:</p> <table><tr><td>(LTE Band 4) FCC 47 CFR Part 2 / 27 ISED RSS GEN / 139</td><td>PASS</td></tr></table>		Date/s Tested	: 31-March-2022 - 25-June-2022	Manufacturer/Location	: Motorola Solutions Malaysia Sdn Bhd	Manufacturer Address	: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia	Requestor	: SIEW KHENG TAN	Product Type	: Hand-held	Product Version (PMN)	: MSLB-MKZ920	Model Number (HVIN)	: AAH90UCU9RH1AN	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)	: D02.22.01.0103 (BP), D00.01.86 (AP)	(LTE Band 4) FCC 47 CFR Part 2 / 27 ISED RSS GEN / 139	PASS
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REVISION HISTORY

Revision History	Description	Date	Originator
Rev A.	Initial Report	29-June-2022	Lim Khay Kwang
Rev B.	Corrected Max EIRP Power in General Description of EUT	7-July-2022	Lim Khay Kwang
Rev C.	Updated Calculated EIRP Power	26-July-2022	Lim Khay Kwang

1.0. Summary of Test Results

FCC Clause	ISED Clause	Test Item	Results	Remarks	Serial Number Tested
2.1046 27.50(d)(6)	RSS-Gen 6.12 RSS-139 4.1	Conducted RF Output Power	Pass	Meet the requirement of limit	734TYF0012
27.50(d)(5)	RSS-139 6.5	Peak-to-Average Power Ratio	Pass	Meet the requirement of limit	734TYF0012
2.1049 27.53(h)(3)	RSS-Gen 6.6	Occupied Bandwidth (26dBc, 99%)	Pass	Meet the requirement of limit	734TYF0012
2.1055 27.54	RSS-139 6.4	Frequency Stability	Pass	Meet the requirement of limit	734TYF0012
2.1051 27.53(h)(1)(3)	RSS-Gen 6.13 RSS-139 6.6	Band Edge Conducted Spurious Emission	Pass	Meet the requirement of limit	734TYF0012
2.1051 27.53(h)(1)	RSS-Gen 6.13 RSS-139 6.6	Conducted Spurious Emissions	Pass	Meet the requirement of limit	734TYF0012
2.1053 27.53 (h)	RSS-139 6.6	Radiated Spurious Emission	Pass	Meet the requirement of limit	734TYF0069
2.1049 27.50(d)(4)	RSS-139 6.5	Equivalent Isotropically Radiated Power (EIRP)	Pass	Meet the requirement of limit	734TYF0012

1.1. Measurement Uncertainty

Measurement	Frequency	Expended Uncertainty (k=1.96) (\pm 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 v1.8.9				
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	MY40001437	26-Aug-21	26-Aug-22
Radiated Spurious Emission (EMC Chamber 1); Test Software Version: EMC_FCC_RE_v1.6.2				
Drg Horn Freq.	SAS-571	720	06-Apr-21	06-Apr-23
Drg Horn Freq.	SAS-571	719	13-Sep-21	13-Sep-22
Power Supply	N7977A	MY54420118	17-Aug-21	17-Aug-22
Signal Generator	SMB 100A	182511	4-Jun-21	4-Jun-24
Emi Test Receiver	ESW44	101731	5-Nov-21	5-Nov-22
5m Semi-Anechoic Chamber	S800-HX	J2308	No Cal. Req'd	No Cal. Req'd
Bilog Antenna	CBL6112D	2950	30-Jul-21	30-Jul-22
Bilog Antenna	CBL6112D	30991	05-Oct-21	05-Oct-22
Data Logger Thermohygrometer	SDL500	A.016800	13-Jun-21	13-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	BBHA9170143	3-Aug-21	3-Aug-22
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	8-Oct-21	8-Oct-22

1.3. General Information

General Description of EUT

Product	MACKENZIE 8/900MHZ NAG MODEL		
Brand	Motorola Solutions		
Test Model	AAH90UCU9RH1AN		
Power Supply Rating	7.5Vdc		
Mode of operation	LTE Band 4		
Modulation Type	QPSK, 16QAM		
Operating Frequency	LTE Band 4	Channel Bandwidth 1.4MHz	1710.7MHz~1754.3MHz
		Channel Bandwidth 3MHz	1711.5MHz~1753.5MHz
		Channel Bandwidth 5MHz	1712.5MHz~1752.5MHz
		Channel Bandwidth 10MHz	1715.0MHz~1750.0MHz
		Channel Bandwidth 15MHz	1717.5MHz~1747.5MHz
		Channel Bandwidth 20MHz	1720.0MHz~1745.0MHz
Max. EIRP Power	LTE Band 4 QPSK	Channel Bandwidth 1.4MHz	25.682dBm (0.370W)
		Channel Bandwidth 3MHz	25.744dBm (0.375W)

		Channel Bandwidth 5MHz	25.758dBm (0.377W)	
		Channel Bandwidth 10MHz	25.803dBm (0.380W)	
		Channel Bandwidth 15MHz	25.814dBm (0.381W)	
		Channel Bandwidth 20MHz	25.812dBm (0.381W)	
	LTE Band 4 16QAM	Channel Bandwidth 1.4MHz	25.883dBm (0.388W)	
		Channel Bandwidth 3MHz	26.047dBm (0.402W)	
		Channel Bandwidth 5MHz	26.024dBm (0.400W)	
		Channel Bandwidth 10MHz	26.046dBm (0.402W)	
		Channel Bandwidth 15MHz	26.097dBm (0.407W)	
		Channel Bandwidth 20MHz	26.322dBm (0.429W)	
Emission Designator	LTE Band 4		QPSK	16QAM
		Channel Bandwidth 1.4MHz	1M07G7D	1M07D7W
		Channel Bandwidth 3MHz	2M68G7D	2M68D7W
		Channel Bandwidth 5MHz	4M48G7D	4M48D7W
		Channel Bandwidth 10MHz	8M93G7D	8M95D7W
		Channel Bandwidth 15MHz	13M4G7D	13M4D7W
		Channel Bandwidth 20MHz	17M9G7D	17M8D7W
Antenna Type	LTE Band 4	LTE MID-HIGH BAND MAIN ANTENNA (2.81dBi)		
SW Version	D02.22.01.0103 (BP), D00.01.86 (AP)			
HW Version	P2			

Note:

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

Item	Brand	Model or P/N	Specification
Li-Ion	MOTOROLA	PMNN4805A	BATTERY PACK,BATTERY PACK,IMPRES GEN2, LIION,IP68, 4400T

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 C63.26-2015

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 4	1.4 MHz	19957 ~ 20393	19957	20175	20393	1710.7	1732.5	1754.3
	3 MHz	19965 ~ 20386	19965	20175	20385	1711.5	1732.5	1753.5
	5 MHz	19975 ~ 20375	19975	20175	20375	1712.5	1732.5	1752.5
	10 MHz	20000 ~ 20350	20000	20175	20350	1715.0	1732.5	1750.0
	15 MHz	20025 ~ 20325	20025	20175	20325	1717.5	1732.5	1747.5
	20 MHz	20050 ~ 20300	20050	20175	20300	1720.0	1732.5	1745.0

1.5. Test Mode Applicability and Tested Channel Detail.

LTE Band 4

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted RF Output Power	19957 ~ 20393	19957, 20175, 20393	1.4 MHz	QPSK, 16QAM	As per table 1.6.3
	19965 ~ 20386	19965, 20175, 20385	3 MHz		
	19975 ~ 20375	19975, 20175, 20375	5 MHz		
	20000 ~ 20350	20000, 20175, 20350	10 MHz		
	20025 ~ 20325	20025, 20175, 20325	15 MHz		
	20050 ~ 20300	20050, 20175, 20300	20 MHz		
Peak to Average Power Ratio	19957 ~ 20393	19957, 20175, 20393	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
	19965 ~ 20386	19965, 20175, 20385	3 MHz		15 RB / 0 RB Offset
	19975 ~ 20375	19975, 20175, 20375	5 MHz		25 RB / 0 RB Offset
	20000 ~ 20350	20000, 20175, 20350	10 MHz		50 RB / 0 RB Offset
	20025 ~ 20325	20025, 20175, 20325	15 MHz		75 RB / 0 RB Offset
	20050 ~ 20300	20050, 20175, 20300	20 MHz		100 RB / 0 RB Offset
Occupied Bandwidth	19957 ~ 20393	19957, 20175, 20393	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
	19965 ~ 20386	19965, 20175, 20385	3 MHz		15 RB / 0 RB Offset
	19975 ~ 20375	19975, 20175, 20375	5 MHz		25 RB / 0 RB Offset
	20000 ~ 20350	20000, 20175, 20350	10 MHz		50 RB / 0 RB Offset
	20025 ~ 20325	20025, 20175, 20325	15 MHz		75 RB / 0 RB Offset
	20050 ~ 20300	20050, 20175, 20300	20 MHz		100 RB / 0 RB Offset
Frequency Stability	19957 ~ 20393	20175	1.4 MHz	QPSK	6 RB / 0 RB Offset
	19965 ~ 20386	20175	3 MHz		15 RB / 0 RB Offset
	19975 ~ 20375	20175	5 MHz		25 RB / 0 RB Offset
	20000 ~ 20350	20175	10 MHz		50 RB / 0 RB Offset
	20025 ~ 20325	20175	15 MHz		75 RB / 0 RB Offset
	20050 ~ 20300	20175	20 MHz		100 RB / 0 RB Offset
Band Edge Conducted Spurious Emission	19957 ~ 20393	19957, 20393	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset 1 RB / 5 RB Offset 6 RB / 0 RB Offset
	19965 ~ 20386	19965, 20385	3 MHz		1 RB / 0 RB Offset 1 RB / 14 RB Offset 15 RB / 0 RB Offset

	19975 ~ 20375	19975, 20375	5 MHz		1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
	20000 ~ 20350	20000, 20350	10 MHz		1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
	20025 ~ 20325	20025, 20325	15 MHz		1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
	20050 ~ 20300	20050, 20300	20 MHz		1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset
Conducted Spurious Emission	19957 ~ 20393	19957, 20175, 20393	1.4 MHz	16QAM	3 RB / 2 RB Offset
	19965 ~ 20386	19965, 20175, 20385	3 MHz		1 RB / 7 RB Offset
	19975 ~ 20375	19975, 20175, 20375	5 MHz		1 RB / 13 RB Offset
	20000 ~ 20350	20000, 20175, 20350	10 MHz		1 RB / 0 RB Offset
	20025 ~ 20325	20025, 20175, 20325	15 MHz		1 RB / 0 RB Offset
	20050 ~ 20300	20050, 20175, 20300	20 MHz		1 RB / 0 RB Offset
Radiated Emission	20050 ~ 20300	20050	20 MHz	16QAM	1 RB / 0 RB Offset
	20050 ~ 20300	20175	20 MHz		1 RB / 0 RB Offset
	19965 ~ 20386	20385	3 MHz		1 RB / 7 RB Offset
Equivalent Isotropically Radiated Power (EIRP)	19957 ~ 20393	19957, 20175, 20393	1.4 MHz	QPSK, 16QAM	As per table 1.6.4
	19965 ~ 20386	19965, 20175, 20385	3 MHz		
	19975 ~ 20375	19975, 20175, 20375	5 MHz		
	20000 ~ 20350	20000, 20175, 20350	10 MHz		
	20025 ~ 20325	20025, 20175, 20325	15 MHz		
	20050 ~ 20300	20050, 20175, 20300	20 MHz		

NOTE:

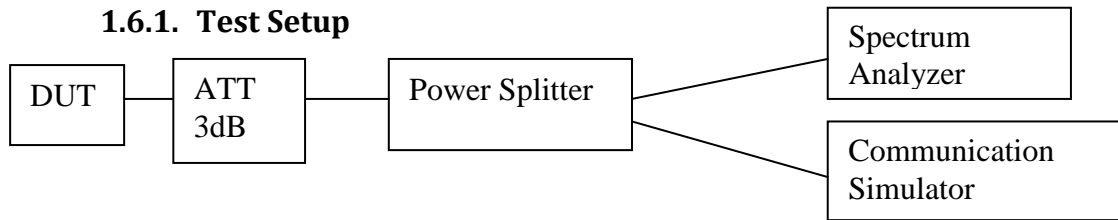
1. The Conducted RF Output Power for QPSK and 16QAM, measured value of 16QAM mode is higher than QPSK mode. Therefore, only Conducted Spurious Emission and Radiated Emission had been tested under 16QAM modes.
2. Band Edge was performed with 1 and full Resource Block at the lowest and highest operating frequency band.
3. The Equivalent Isotropically Radiated Power (EIRP) 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	-30°C ~ 60°C	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	Azil&Qawiman
Equivalent Isotropically Radiated Power (EIRP)	25°C, 50% 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: 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 watt EIRP.
 ISED: The equivalent isotropically radiated power (e.i.r.p.) for mobile and portable transmitters shall not exceed one watt.

1.6.3. Conducted RF Output Power – LTE Band 4(1710-1755MHz)

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
			19957	20175	20393	19957	20175	20393
			1710.7 MHz	1732.5 MHz	1754.3 MHz	1710.7 MHz	1732.5 MHz	1754.3 MHz
Band 4 / 1.4 MHz	1	0	22.816	22.814	22.749	22.841	22.877	22.865
	1	3	22.872	22.866	22.841	22.897	22.966	22.943
	1	5	22.804	22.806	22.786	22.837	22.911	22.885
	3	0	22.767	22.708	22.815	23.026	22.951	22.786
	3	2	22.821	22.779	22.861	23.073	23.022	22.864
	3	3	22.792	22.727	22.811	23.023	22.982	22.806
	6	0	22.744	22.778	22.841	21.895	21.888	21.867

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
			19965	20175	20385	19965	20175	20385
			1711.5 MHz	1732.5 MHz	1753.5 MHz	1711.5 MHz	1732.5 MHz	1753.5 MHz
Band 4 / 3MHz	1	0	22.888	22.84	22.753	22.984	22.872	23.137
	1	7	22.926	22.934	22.903	23.042	22.943	23.237
	1	14	22.854	22.855	22.822	22.948	22.877	23.104
	8	0	22.876	22.826	22.874	21.909	21.902	22.107
	8	4	22.929	22.843	22.917	21.947	21.982	22.129
	8	7	22.886	22.801	22.868	21.925	21.912	22.083
	15	0	22.88	22.862	22.899	21.937	21.938	22.011

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
			19975	20175	20375	19975	20175	20375
			1712.5MHz	1732.5MHz	1752.5MHz	1712.5MHz	1732.5MHz	1752.5MHz
Band 4 / 5MHz	1	0	22.813	22.848	22.888	22.864	22.951	23.134
	1	13	22.87	22.893	22.948	22.882	22.989	23.214
	1	25	22.802	22.877	22.899	22.867	22.983	23.18
	12	0	22.934	22.853	22.913	21.956	21.84	21.99
	12	6	22.93	22.858	22.945	21.983	21.869	21.976
	12	13	22.898	22.883	22.942	21.936	21.851	21.988
	25	0	22.904	22.892	22.937	21.921	21.924	21.993

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
			20000	20175	20350	20000	20175	20350
			1715MHz	1732.5MHz	1750MHz	1715MHz	1732.5MHz	1750MHz
Band 4 / 10MHz	1	0	22.915	22.904	22.905	22.994	22.903	23.236
	1	25	22.846	22.87	22.78	22.967	22.869	23.11
	1	49	22.857	22.958	22.871	22.982	22.923	23.182
	25	0	22.962	22.878	22.993	22.069	22.006	22.079
	25	13	22.962	22.909	22.985	22.071	22.04	22.106
	25	25	22.915	22.932	22.917	22.05	22.036	22.029
	50	0	22.944	22.9	22.974	21.989	21.993	22.086

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
			20025	20175	20325	20025	20175	20325
			1717.5MHz	1732.5MHz	1747.5MHz	1717.5MHz	1732.5MHz	1747.5MHz
Band 4 / 15MHz	1	0	22.955	23.004	22.898	23.287	23.04	22.926
	1	38	22.839	22.907	22.844	23.172	22.948	22.836
	1	74	22.811	22.898	22.835	23.155	22.957	22.829
	36	0	22.925	22.874	22.861	22.031	22.019	21.965
	36	19	22.927	22.878	22.875	22.03	22.038	21.962
	36	39	22.829	22.914	22.897	21.953	22.039	22.004
	75	0	22.846	22.895	22.901	21.95	22.02	21.993

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
			20050	20175	20300	20050	20175	20300
			1720MHz	1732.5MHz	1745MHz	1720MHz	1732.5MHz	1745MHz
Band 4 / 20MHz	1	0	22.95	22.822	22.918	23.512	23.293	22.962
	1	49	22.839	22.781	22.749	23.377	23.226	22.783
	1	99	22.855	22.814	22.777	23.418	23.252	22.789
	50	0	22.98	22.94	23.002	22.065	21.989	22.048
	50	25	22.882	22.944	22.91	21.951	22.002	21.99
	50	50	22.89	22.951	22.918	21.94	22.025	21.994
	100	0	22.833	22.893	22.861	21.887	21.982	21.931

1.6.4. Equivalent Isotropically Radiated Power (EIRP) - LTE Band 4 (1710-1755MHz)

Equivalent Isotropically Radiated 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
			19957	20175	20393	19957	20175	20393
			1710.7 MHz	1732.5 MHz	1754.3 MHz	1710.7 MHz	1732.5 MHz	1754.3 MHz
Band 4 / 1.4 MHz	1	0	25.626	25.624	25.559	25.651	25.687	25.675
	1	3	25.682	25.676	25.651	25.707	25.776	25.753
	1	5	25.614	25.616	25.596	25.647	25.721	25.695
	3	0	25.577	25.518	25.625	25.836	25.761	25.596
	3	2	25.631	25.589	25.671	25.883	25.832	25.674
	3	3	25.602	25.537	25.621	25.833	25.792	25.616
	6	0	25.554	25.588	25.651	24.705	24.698	24.677

Equivalent Isotropically Radiated 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
			19965	20175	20385	19965	20175	20385
			1711.5 MHz	1732.5 MHz	1753.5 MHz	1711.5 MHz	1732.5 MHz	1753.5 MHz
Band 4 / 3MHz	1	0	25.698	25.65	25.563	25.794	25.682	25.947
	1	7	25.736	25.744	25.713	25.852	25.753	26.047
	1	14	25.664	25.665	25.632	25.758	25.687	25.914
	8	0	25.686	25.636	25.684	24.719	24.712	24.917
	8	4	25.739	25.653	25.727	24.757	24.792	24.939
	8	7	25.696	25.611	25.678	24.735	24.722	24.893
	15	0	25.69	25.672	25.709	24.747	24.748	24.821

Equivalent Isotropically Radiated 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
			19975	20175	20375	19975	20175	20375
			1712.5MHz	1732.5MHz	1752.5MHz	1712.5MHz	1732.5MHz	1752.5MHz
Band 4 / 5MHz	1	0	25.623	25.658	25.698	25.674	25.761	25.944
	1	13	25.68	25.703	25.758	25.692	25.799	26.024
	1	25	25.612	25.687	25.709	25.677	25.793	25.99
	12	0	25.744	25.663	25.723	24.766	24.65	24.8
	12	6	25.74	25.668	25.755	24.793	24.679	24.786
	12	13	25.708	25.693	25.752	24.746	24.661	24.798
	25	0	25.714	25.702	25.747	24.731	24.734	24.803

Equivalent Isotropically Radiated 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
			20000	20175	20350	20000	20175	20350
			1715MHz	1732.5MHz	1750MHz	1715MHz	1732.5MHz	1750MHz
Band 4 / 10MHz	1	0	25.725	25.714	25.715	25.804	25.713	26.046
	1	25	25.656	25.68	25.59	25.777	25.679	25.92
	1	49	25.667	25.768	25.681	25.792	25.733	25.992
	25	0	25.772	25.688	25.803	24.879	24.816	24.889
	25	13	25.772	25.719	25.795	24.881	24.85	24.916
	25	25	25.725	25.742	25.727	24.86	24.846	24.839
	50	0	25.754	25.71	25.784	24.799	24.803	24.896

Equivalent Isotropically Radiated 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
			20025	20175	20325	20025	20175	20325
			1717.5MHz	1732.5MHz	1747.5MHz	1717.5MHz	1732.5MHz	1747.5MHz
Band 4 / 15MHz	1	0	25.765	25.814	25.708	26.097	25.85	25.736
	1	38	25.649	25.717	25.654	25.982	25.758	25.646
	1	74	25.621	25.708	25.645	25.965	25.767	25.639
	36	0	25.735	25.684	25.671	24.841	24.829	24.775
	36	19	25.737	25.688	25.685	24.84	24.848	24.772
	36	39	25.639	25.724	25.707	24.763	24.849	24.814
	75	0	25.656	25.705	25.711	24.76	24.83	24.803

Equivalent Isotropically Radiated 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
			20050	20175	20300	20050	20175	20300
			1720MHz	1732.5MHz	1745MHz	1720MHz	1732.5MHz	1745MHz
Band 4 / 20MHz	1	0	25.76	25.632	25.728	26.322	26.103	25.772
	1	49	25.649	25.591	25.559	26.187	26.036	25.593
	1	99	25.665	25.624	25.587	26.228	26.062	25.599
	50	0	25.79	25.75	25.812	24.875	24.799	24.858
	50	25	25.692	25.754	25.72	24.761	24.812	24.8
	50	50	25.7	25.761	25.728	24.75	24.835	24.804
	100	0	25.643	25.703	25.671	24.697	24.792	24.741

The maximum ERP/EIRP from the measured RF output power is given in Equation as follows:

$$\mathbf{EIRP = P_{Meas} + GT}$$

$$\mathbf{ERP = EIRP - 2.15}$$

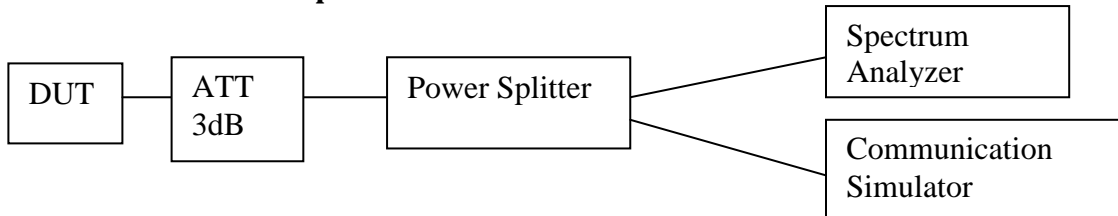
Where, ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively
 (Expressed in the same units as P_{Meas}, e.g., dBm)

P_{Meas} measured transmitter output power, in dBm

GT gain of the transmitting antenna, in dBi (EIRP)

1.1. Peak-to-Average Power Ratio

1.1.1. Test Setup



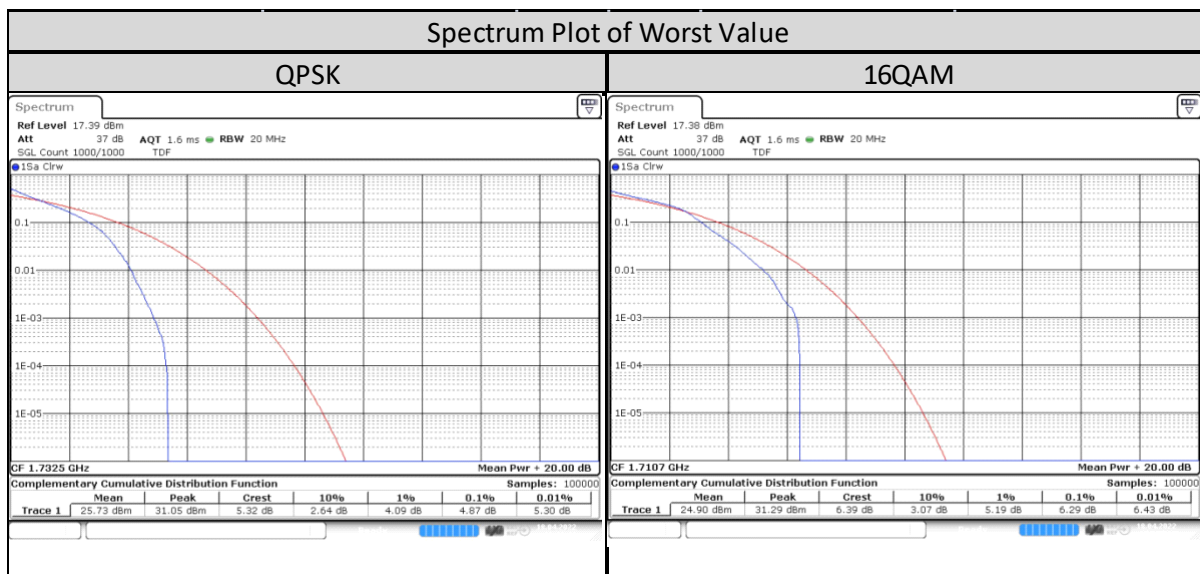
1. The DUT transmitter output port was connected to communication simulator with above setup.
2. Path loss for the measurement included.
3. Set DUT to transmit maximum power through communication simulator
4. Set the CCDF (Complementary Cumulative Distribution Function) option in the spectrum analyzer.
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.

1.1.2. Test Limit

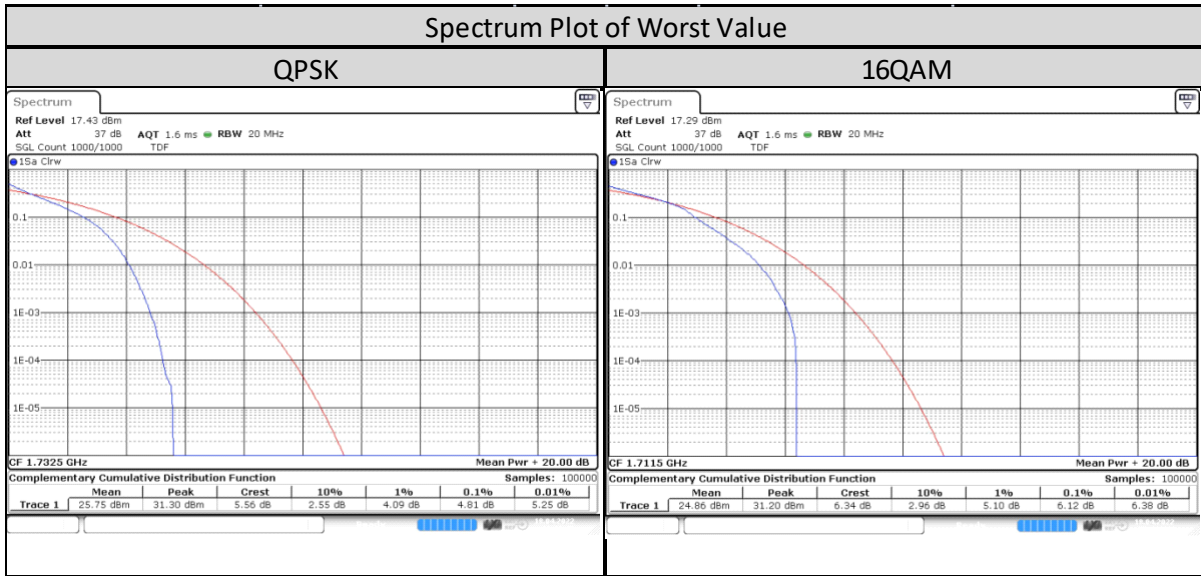
In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

1.1.3. Peak-to-Average Power Ratio - LTE Band 4 (1710-1755MHz)

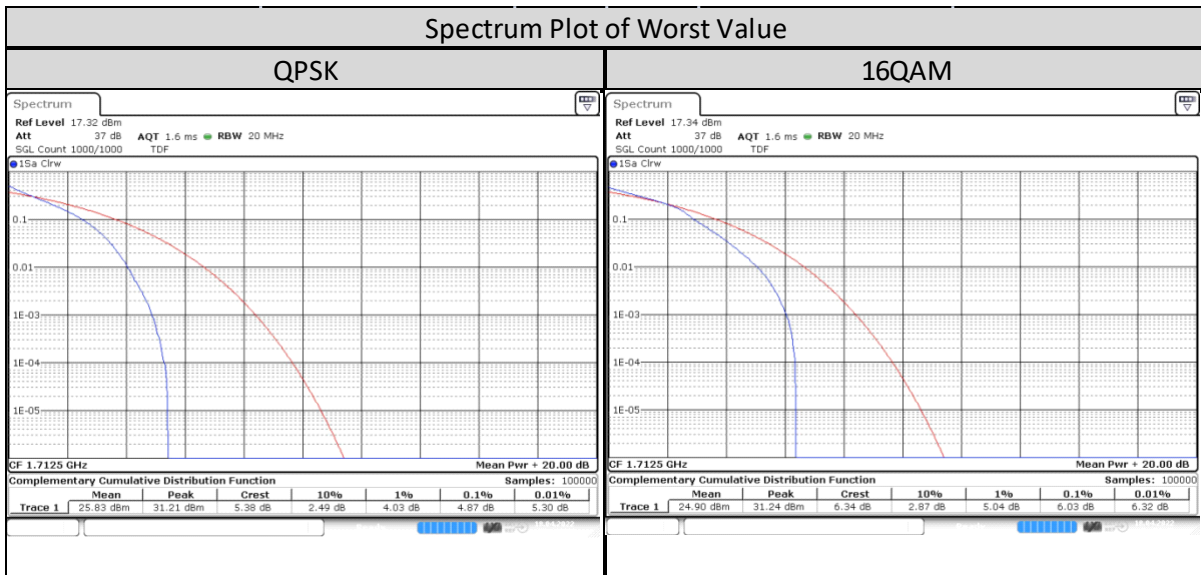
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 4/1.4MHz/6/0	Low CH 19957	1710.7 MHz	4.841	6.29
	Mid CH 20175	1732.5 MHz	4.87	5.884
	High CH 20393	1754.3 MHz	4.812	5.884



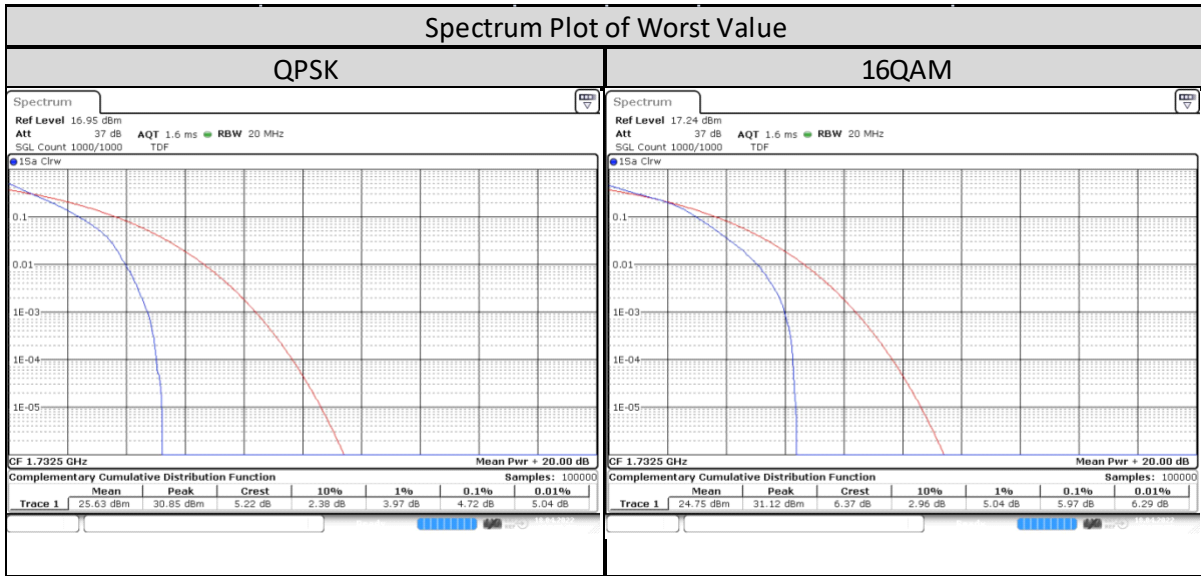
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 4/3MHz/15/0	Low CH 19965	1711.5 MHz	4.667	6.116
	Mid CH 20175	1732.5 MHz	4.812	6.029
	High CH 20385	1753.5 MHz	4.725	5.768



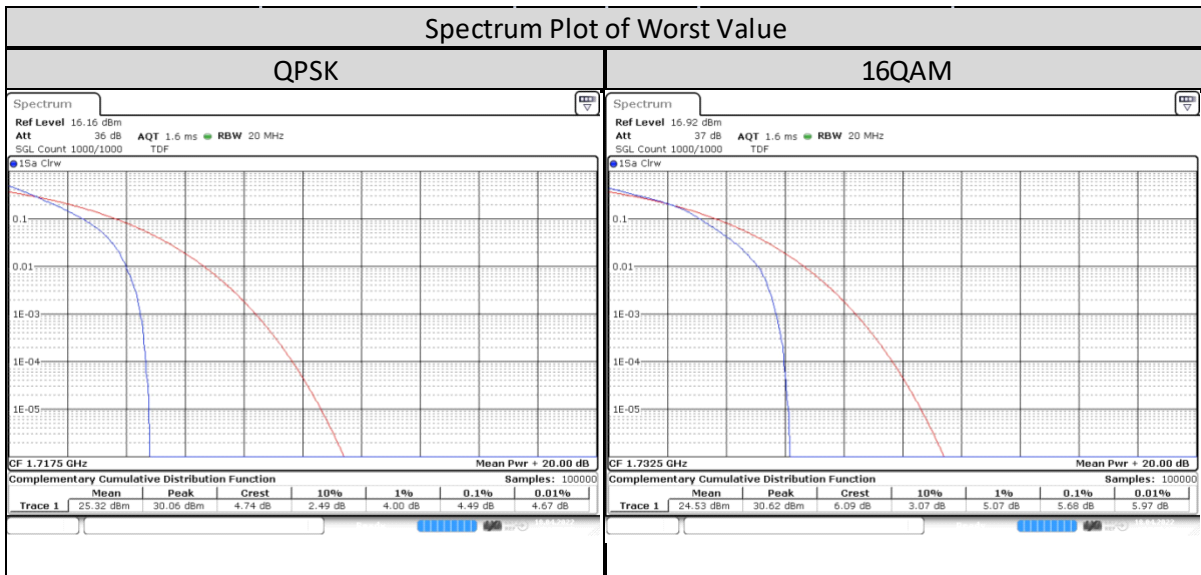
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 4/5MHz/25/0	Low CH 19975	1712.5 MHz	4.87	6.029
	Mid CH 20175	1732.5 MHz	4.754	6
	High CH 20375	1752.5 MHz	4.667	5.623



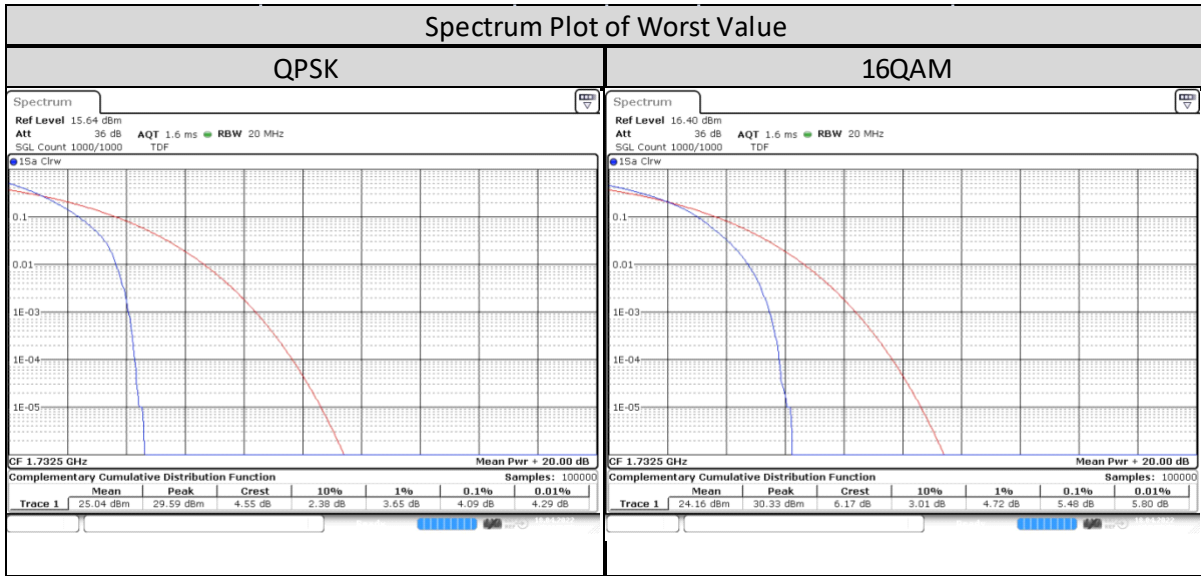
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 4/10MHz/50/0	Low CH 20000	1715 MHz	4.696	5.913
	Mid CH 20175	1732.5 MHz	4.725	5.971
	High CH 20350	1750 MHz	4.493	5.565



LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 4/15MHz/75/0	Low CH 20025	1717.5 MHz	4.493	5.623
	Mid CH 20175	1732.5 MHz	4.493	5.681
	High CH 20325	1747.5 MHz	4.377	5.565

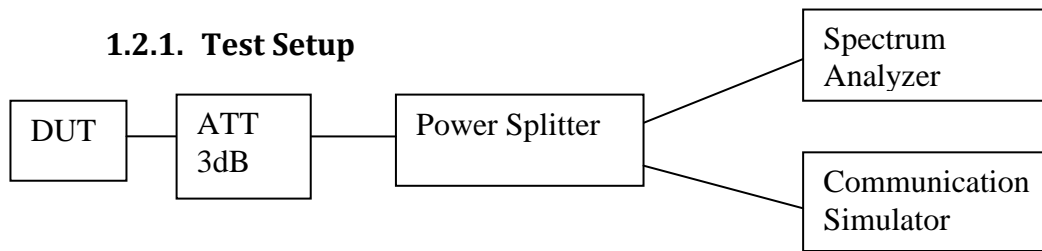


LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 4/ 20MHz/100/0	Low CH 20050	1720 MHz	3.971	5.333
	Mid CH 20175	1732.5 MHz	4.087	5.478
	High CH 20300	1745 MHz	3.971	5.333



1.2. Occupied Bandwidth

1.2.1. Test Setup



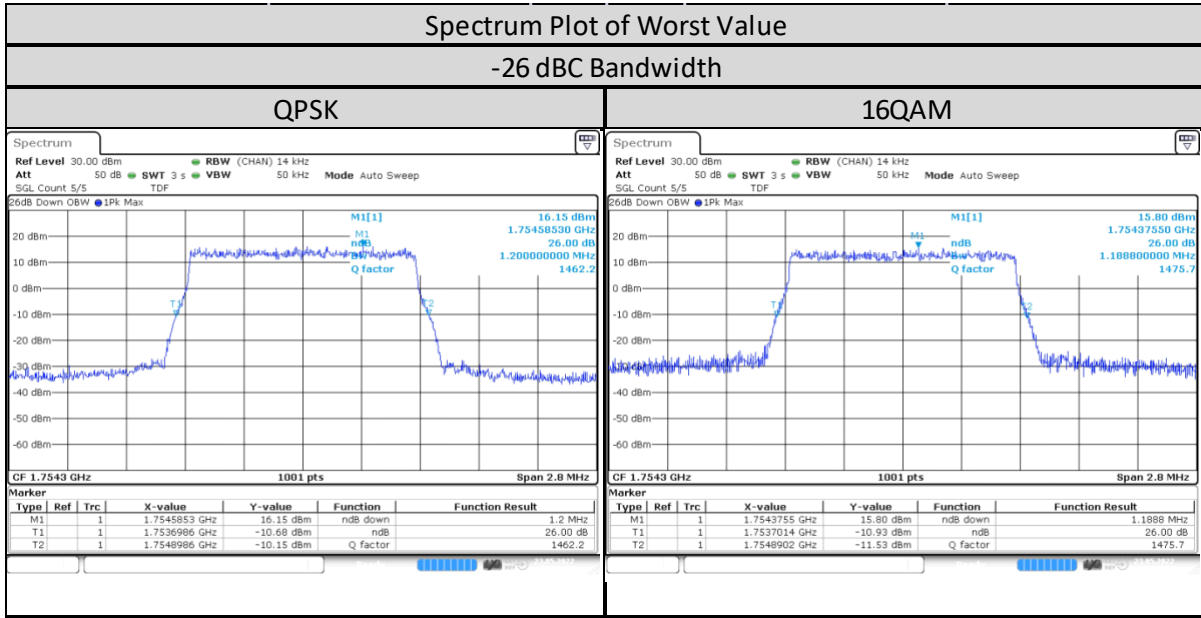
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) For LTE measurement, set DUT to transmit maximum power & full RB size through communication simulator.
- 4) For LTE measurement, set DUT to transmit maximum 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.

1.2.2. Test Limit

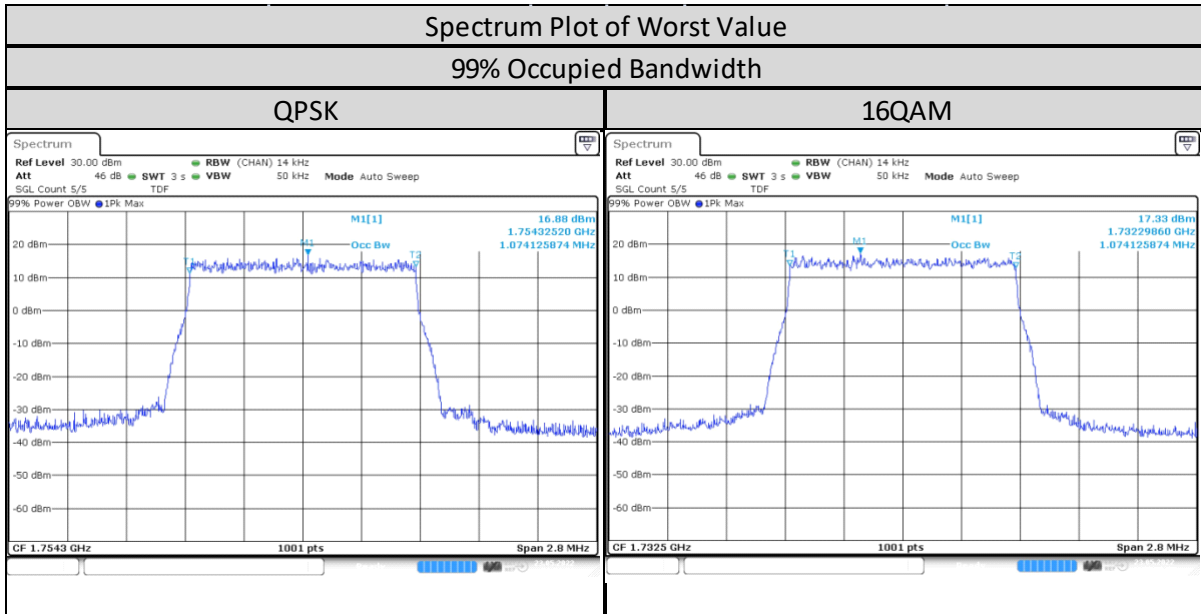
The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

1.2.3. Occupied Bandwidth - LTE Band 4 (1710-1755MHz)

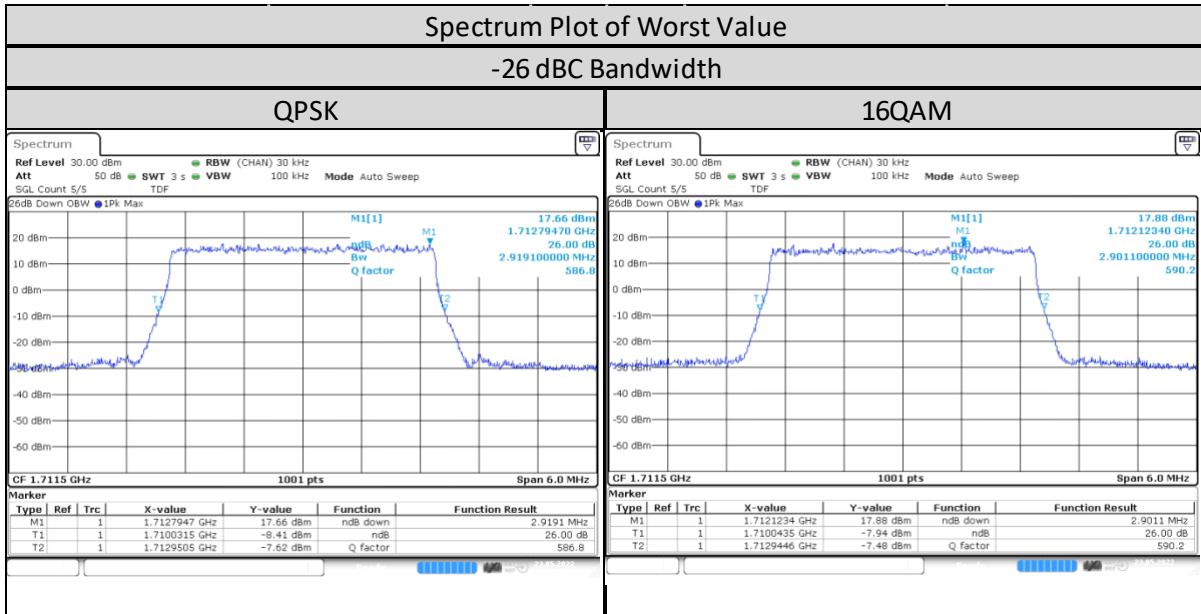
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 4/1.4MHz/6/0	Low CH 19957	1710.7 MHz	1.197	1.178
	Mid CH 20175	1732.5 MHz	1.189	1.183
	High CH 20393	1754.3 MHz	1.2	1.189



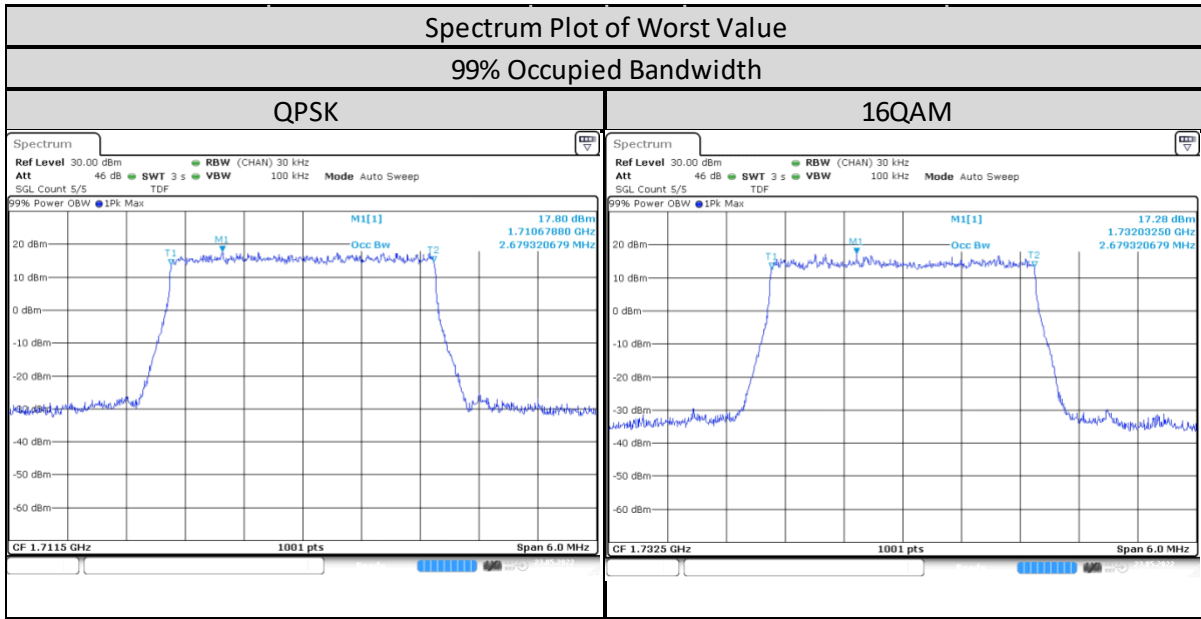
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 4/1.4MHz/6/0	Low CH 19957	1710.7 MHz	1.071	1.071
	Mid CH 20175	1732.5 MHz	1.071	1.074
	High CH 20393	1754.3 MHz	1.074	1.071



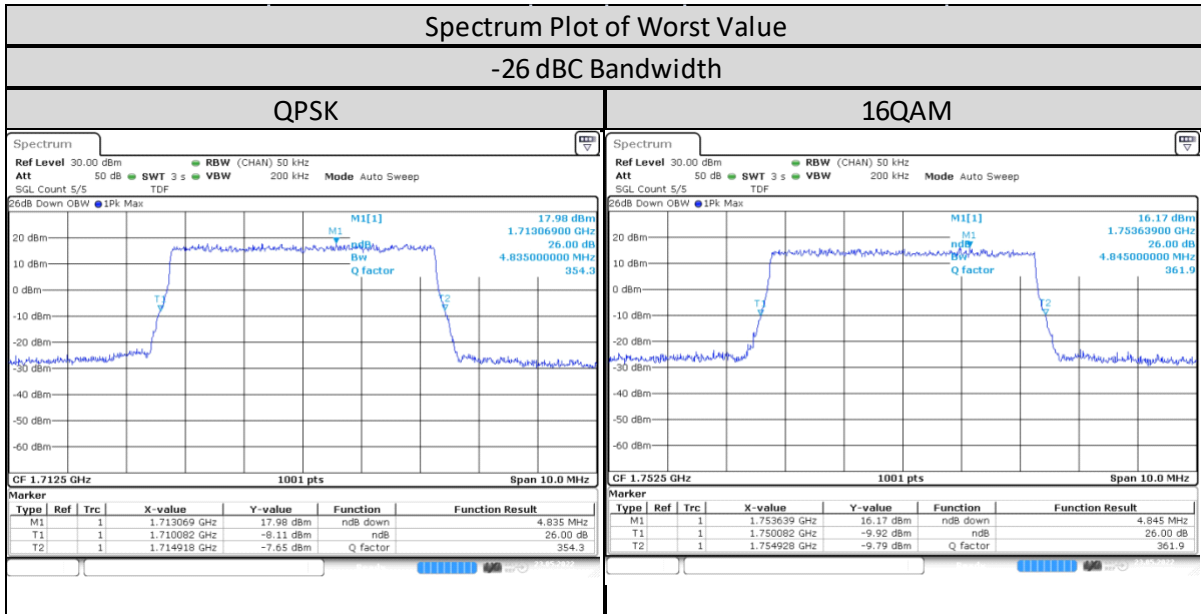
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 4/3MHz/15/0	Low CH 19965	1711.5 MHz	2.919	2.901
	Mid CH 20175	1732.5 MHz	2.895	2.901
	High CH 20385	1753.5 MHz	2.889	2.871



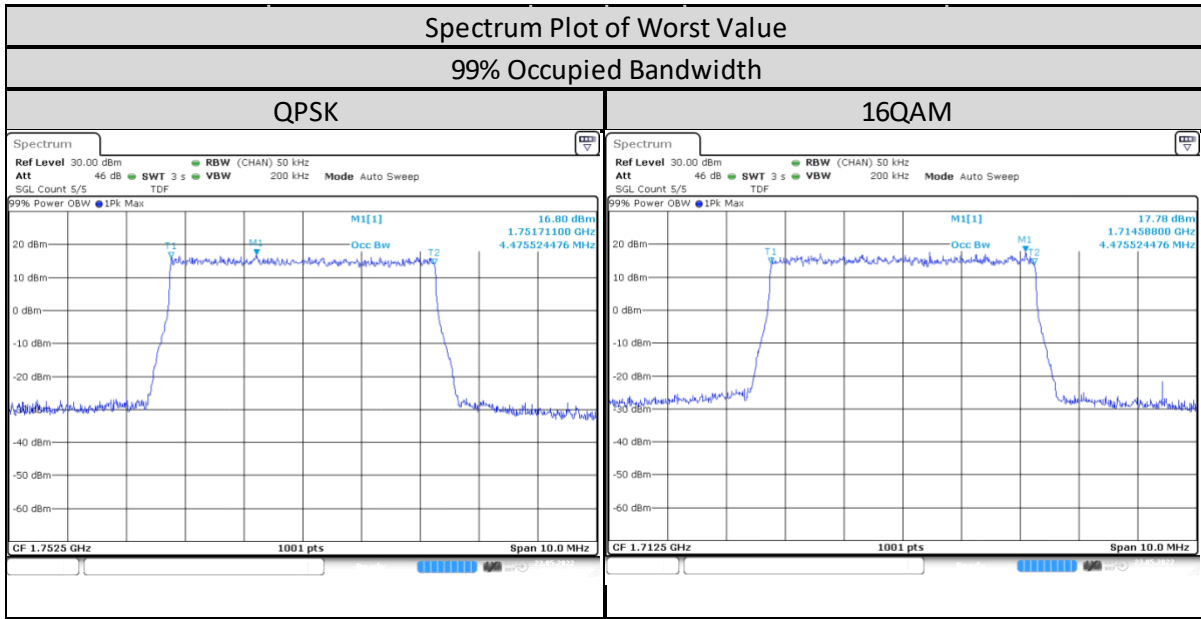
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 4/3MHz/15/0	Low CH 19965	1711.5 MHz	2.679	2.673
	Mid CH 20175	1732.5 MHz	2.679	2.679
	High CH 20385	1753.5 MHz	2.673	2.679



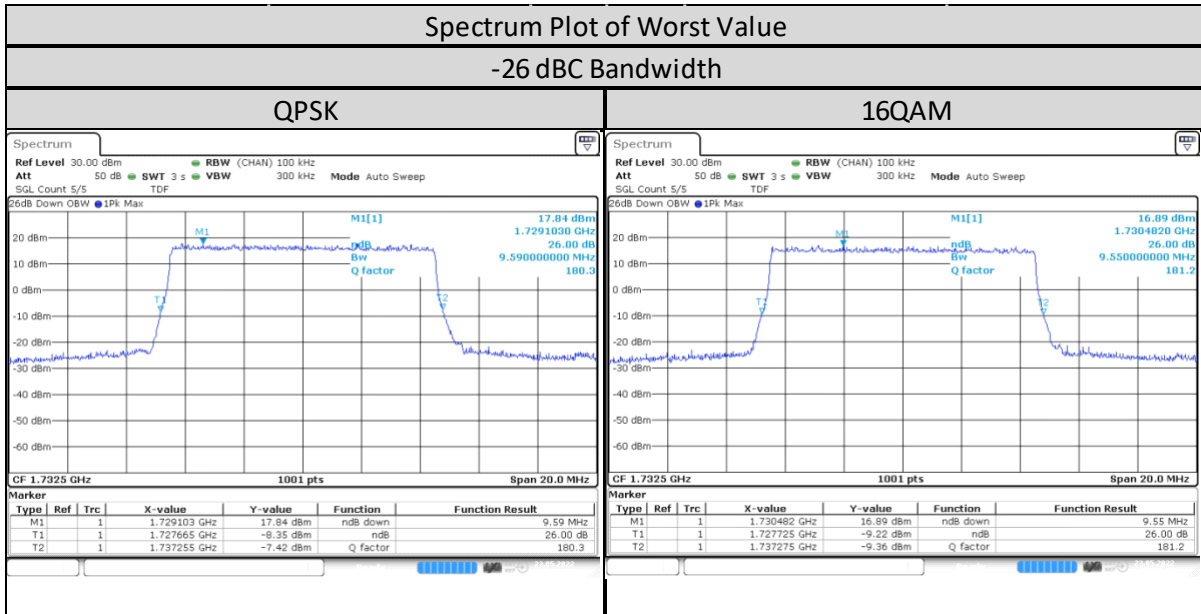
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 4/5MHz/25/0	Low CH 19975	1712.5 MHz	4.835	4.785
	Mid CH 20175	1732.5 MHz	4.815	4.805
	High CH 20375	1752.5 MHz	4.815	4.845



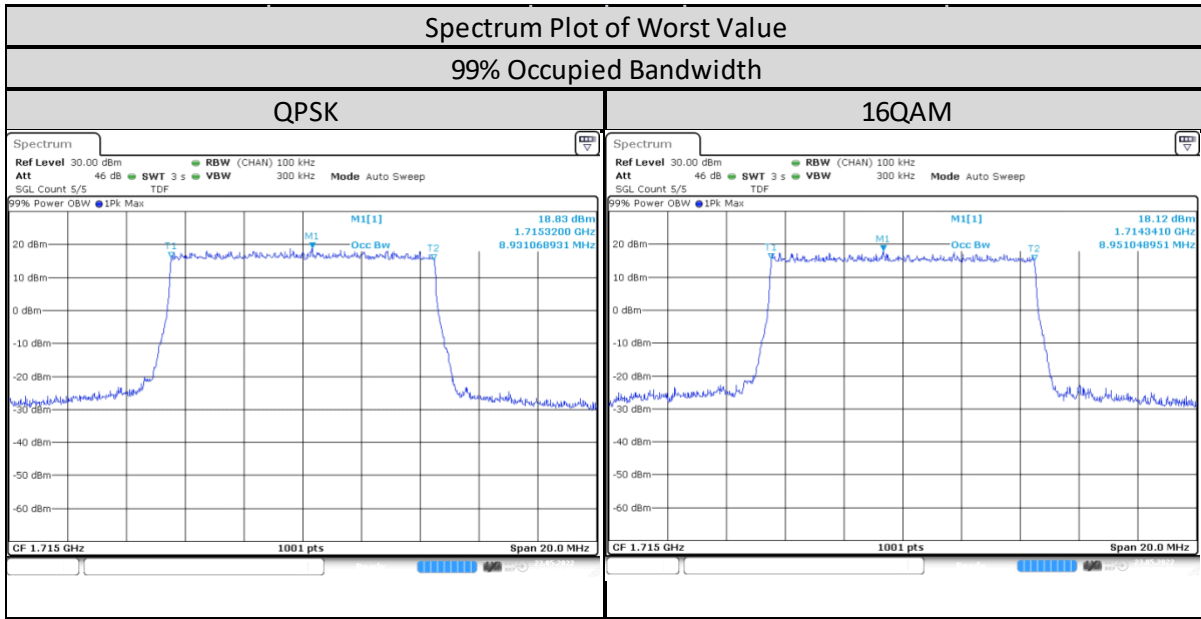
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 4/5MHz/25/0	Low CH 19975	1712.5 MHz	4.456	4.476
	Mid CH 20175	1732.5 MHz	4.466	4.456
	High CH 20375	1752.5 MHz	4.476	4.466



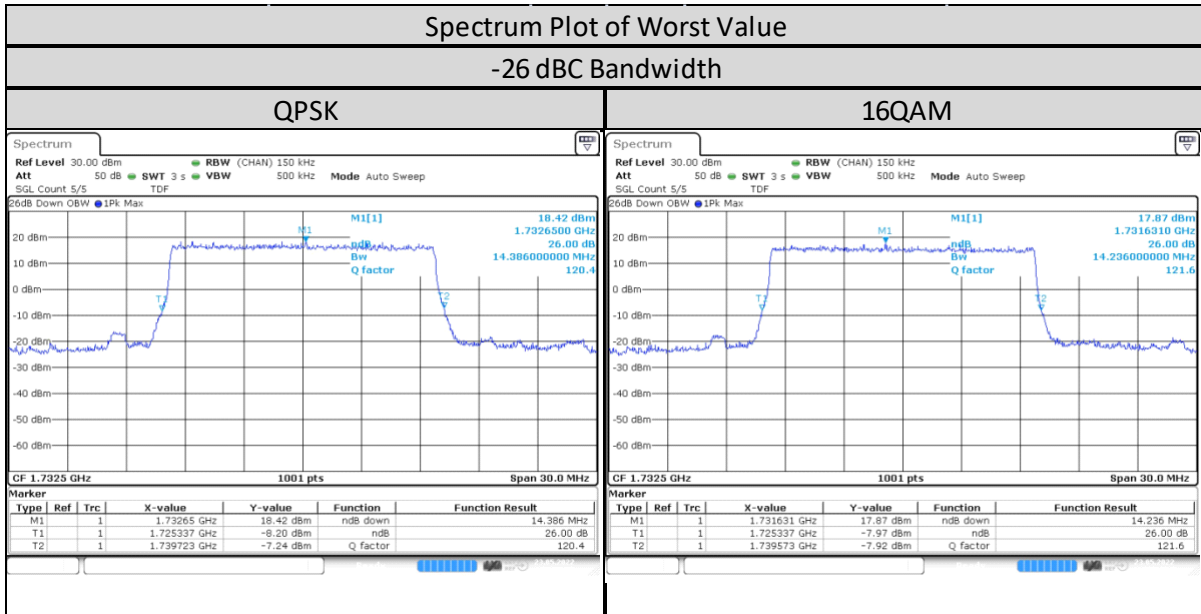
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 4/10MHz/50/0	Low CH 20000	1715 MHz	9.53	9.53
	Mid CH 20175	1732.5 MHz	9.59	9.55
	High CH 20350	1750 MHz	9.53	9.471



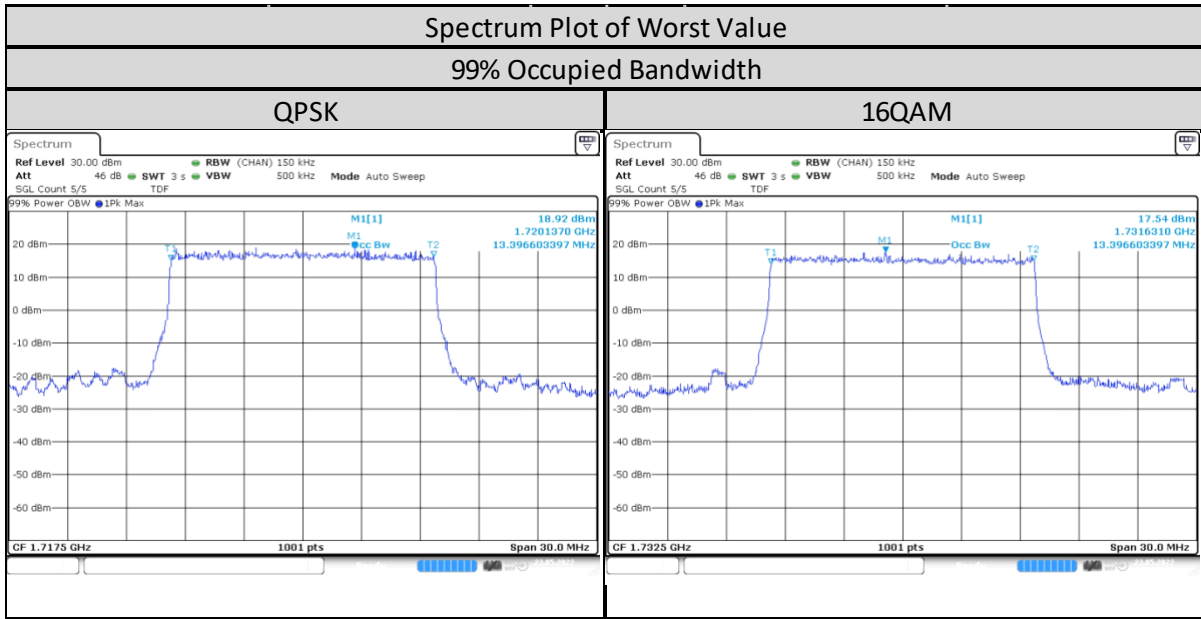
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 4/10MHz/50/0	Low CH 20000	1715 MHz	8.931	8.951
	Mid CH 20175	1732.5 MHz	8.931	8.931
	High CH 20350	1750 MHz	8.911	8.911



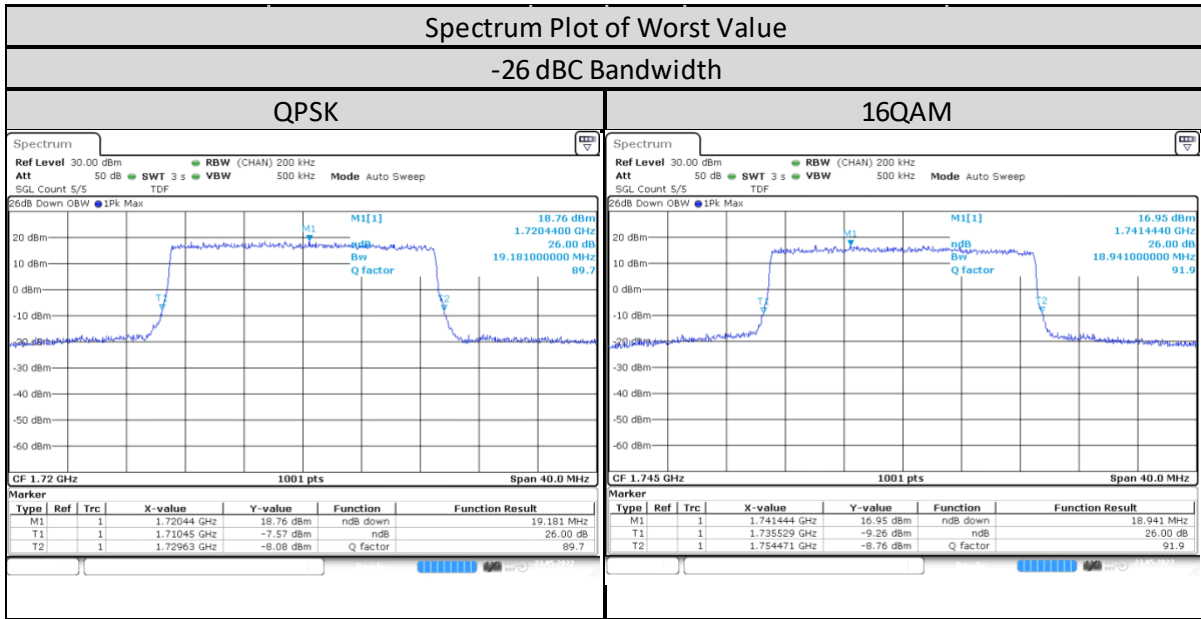
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 4/15MHz/75/0	Low CH 20025	1717.5 MHz	14.296	14.176
	Mid CH 20175	1732.5 MHz	14.386	14.236
	High CH 20325	1747.5 MHz	14.386	14.236



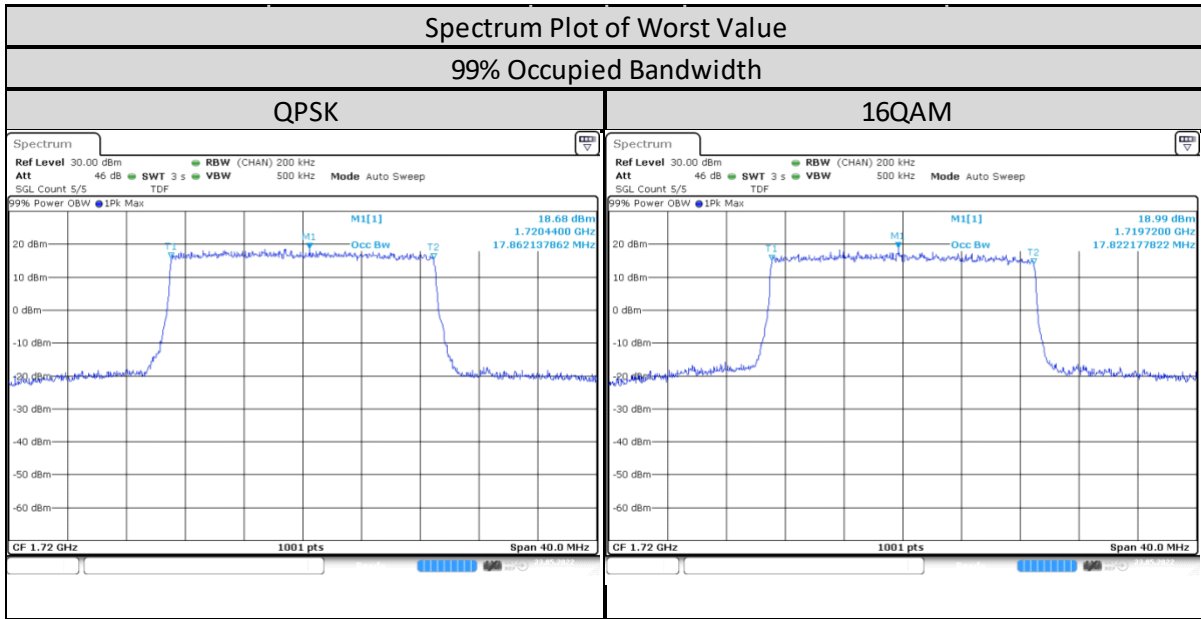
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 4/15MHz/75/0	Low CH 20025	1717.5 MHz	13.397	13.367
	Mid CH 20175	1732.5 MHz	13.367	13.397
	High CH 20325	1747.5 MHz	13.397	13.367



LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 4/20MHz/100/0	Low CH 20050	1720 MHz	19.181	18.821
	Mid CH 20175	1732.5 MHz	18.901	18.861
	High CH 20300	1745 MHz	19.061	18.941

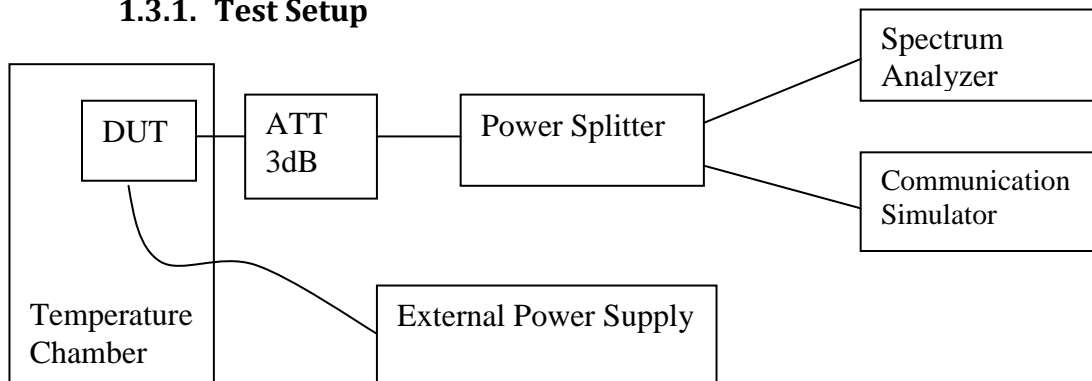


LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 4/20MHz/100/0	Low CH 20050	1720 MHz	17.862	17.822
	Mid CH 20175	1732.5 MHz	17.822	17.822
	High CH 20300	1745 MHz	17.822	17.782



1.3. Frequency Stability

1.3.1. Test Setup



- 1) The DUT is placed in the temperature chamber and DUT is power up by external power supply to control the DC input voltage.
- 2) The temperature chamber could control the temperature and humidity and external power supply could control the test voltage range from minimum to maximum operating voltage.
- 3) Measured frequency error from the communication simulator by vary below step :
 - i. Vary temperature of the temperature chamber from -30 ~ 60 deg C (10 deg C / Step) and set external supply voltage constant at nominal voltage.
 - ii. Vary external supply voltage from minimum to maximum operation voltage support by DUT and set temperature chamber constant at room temp.
- 4) All the measurement was done at mid channel for each band.

1.3.2. Test Limit

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

1.3.3. Frequency Stability – LTE Band 4 (1710-1755MHz)

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 1.4 MHz			
		Low Channel		High Channel	
		1710.7MHz		1754.3MHz	
		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
LTE Band 4	60	1710.700014	0.00832	1754.300021	0.011995
	50	1710.700019	0.01118	1754.30002	0.011253
	40	1710.700016	0.009374	1754.299984	-0.008978
	30	1710.699972	-0.016105	1754.29998	-0.011669
	20	1710.700022	0.013045	1754.299979	-0.011718
	10	1710.699981	-0.011163	1754.299979	-0.012174
	0	1710.699981	-0.011314	1754.299988	-0.00707
	-10	1710.699981	-0.010854	1754.299974	-0.014882
	-20	1710.699982	-0.010269	1754.299972	-0.015689
	-30	1710.69998	-0.011724	1754.300021	0.011889

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 1.4 MHz			
		Low Channel		High Channel	
		1710.7MHz		1754.3MHz	
LTE Band 4		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	9V	1710.699981	-0.011013	1754.29998	-0.011204
	7.5V	1710.699978	-0.012635	1754.300022	0.012647
	6V	1710.699975	-0.014467	1754.299969	-0.017907

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 3 MHz			
		Low Channel		High Channel	
		1711.5MHz		1753.5MHz	
LTE Band 4		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	60	1711.500021	0.012462	1753.500022	0.012588
	50	1711.500023	0.013407	1753.50002	0.011413
	40	1711.500021	0.01237	1753.500022	0.012596
	30	1711.500021	0.012019	1753.500019	0.01107
	20	1711.500022	0.012755	1753.500024	0.013893
	10	1711.500021	0.011986	1753.50002	0.011568
	0	1711.50002	0.011676	1753.500019	0.010695
	-10	1711.500017	0.009871	1753.500027	0.015345
	-20	1711.500021	0.01247	1753.500021	0.012
	-30	1711.500025	0.014811	1753.500027	0.015606

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 3 MHz			
		Low Channel		High Channel	
		1711.5MHz		1753.5MHz	
LTE Band 4		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	9V	1711.500019	0.010874	1753.500019	0.010981
	7.5V	1711.500019	0.010907	1753.500017	0.009781
	6V	1711.500028	0.016432	1753.500029	0.016275

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 5 MHz			
		Low Channel		High Channel	
		1712.5MHz		1752.5MHz	
LTE Band 4		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	60	1712.499981	-0.01096	1752.499986	-0.008097
	50	1712.499972	-0.016147	1752.50003	0.017297
	40	1712.499983	-0.00979	1752.499985	-0.008644
	30	1712.499979	-0.012213	1752.499984	-0.009069
	20	1712.499976	-0.014042	1752.500019	0.010775
	10	1712.499988	-0.007259	1752.500016	0.009208
	0	1712.499976	-0.013733	1752.499985	-0.008554
	-10	1712.499979	-0.01238	1752.500019	0.01106
	-20	1712.499984	-0.009414	1752.500017	0.009542
	-30	1712.499983	-0.010191	1752.500016	0.009175

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 5 MHz			
		Low Channel		High Channel	
		1712.5MHz		1752.5MHz	
LTE Band 4		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	9V	1712.49998	-0.011427	1752.499985	-0.008301
	7.5V	1712.499982	-0.010701	1752.500015	0.008399
	6V	1712.500022	0.012856	1752.500019	0.01084

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 10 MHz			
		Low Channel		High Channel	
		1715MHz		1750MHz	
		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
LTE Band 4	60	1715.000016	0.009501	1749.999972	-0.01594
	50	1715.000017	0.010118	1749.999975	-0.014011
	40	1714.999987	-0.007465	1749.999983	-0.009646
	30	1714.999987	-0.007407	1749.999983	-0.009646
	20	1715.000013	0.007565	1749.999979	-0.011779
	10	1714.999986	-0.008124	1749.999974	-0.014697
	0	1715.000014	0.008383	1749.999982	-0.010185
	-10	1715.000016	0.009317	1749.999981	-0.010643
	-20	1715.000002	0.011861	1749.99998	-0.011232
	-30	1714.999982	-0.010376	1749.999983	-0.009899

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 10 MHz			
		Low Channel		High Channel	
		1715MHz		1750MHz	
		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
LTE Band 4	9V	1715.000017	0.010126	1749.999983	-0.009989
	7.5V	1715.000014	0.007924	1749.999978	-0.012368
	6V	1714.99998	-0.011569	1749.99998	-0.011542

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 15 MHz			
		Low Channel		High Channel	
		1717.5MHz		1747.5MHz	
		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
LTE Band 4	60	1717.500026	0.014951	1747.500017	0.00966
	50	1717.50002	0.011486	1747.500021	0.012287
	40	1717.50002	0.011677	1747.500022	0.012312
	30	1717.50002	0.011636	1747.500017	0.009455
	20	1717.50002	0.011527	1747.500021	0.011993
	10	1717.500019	0.011053	1747.500021	0.011853
	0	1717.500018	0.010403	1747.500019	0.010683
	-10	1717.500021	0.012385	1747.500018	0.010478
	-20	1717.50002	0.011877	1747.500029	0.01679
	-30	1717.500018	0.01062	1747.50002	0.011256

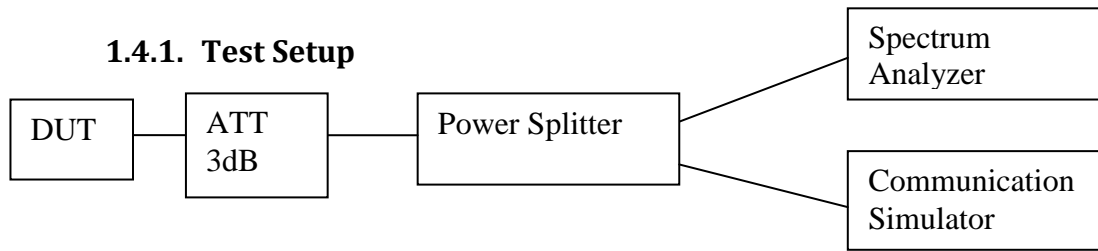
Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 15 MHz			
		Low Channel		High Channel	
		1717.5MHz		1747.5MHz	
LTE Band 4		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	9V	1717.500017	0.009712	1747.500017	0.009586
	7.5V	1717.500017	0.009862	1747.50002	0.011256
	6V	1717.500024	0.014259	1747.500026	0.014743

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 20 MHz			
		Low Channel		High Channel	
		1720MHz		1745MHz	
LTE Band 4		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	60	1720.000024	0.013781	1744.999982	-0.01051
	50	1720.000023	0.013432	1744.999977	-0.013149
	40	1719.999982	-0.010321	1744.999982	-0.010575
	30	1719.999983	-0.009864	1744.999985	-0.008878
	20	1719.999981	-0.010945	1745.000014	0.008042
	10	1719.999981	-0.011086	1745.000014	0.008198
	0	1719.999982	-0.010205	1744.99999	-0.005697
	-10	1719.999983	-0.009639	1745.00002	0.011346
	-20	1719.999979	-0.012326	1744.999973	-0.015199
	-30	1719.999982	-0.010446	1745.000018	0.010296

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 20 MHz			
		Low Channel		High Channel	
		1720MHz		1745MHz	
LTE Band 4		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	9V	1719.999982	-0.010737	1744.999986	-0.00805
	7.5V	1719.99998	-0.01181	1745.000014	0.00787
	6V	1719.999979	-0.012351	1745.000018	0.010247

1.4. Band Edge Conducted Spurious Emission

1.4.1. 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) The band edges of lowest and highest channels with the highest RF powers were measured.
- 5) The center frequency of spectrum is the band edge frequency, span is 3MHz, RBW is 1~3% of EBW and VBW is at least 3 times of RBW
- 6) Record the maximum trace plot into the test report.

1.4.2. Test Limit

For operations in the 1710-1755 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB. In the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.