

 MOTOROLA SOLUTIONS	 MS ISO/IEC 17025 TESTING SAMM No. 0825																						
MOTOROLA PENANG ADV. COMM. LABORATORY Motorola Solutions Malaysia Sdn Bhd, Innoplex Plot 2A, Medan Bayan Lepas, Mukim 12 S.W.D, 11900 Bayan Lepas, Penang, Malaysia.	FCC / IC TEST REPORT Report Revision : Rev.B																						
<table><tr><td>Date/s Tested</td><td>: 17-Nov-2017 - 25-Mar-2018</td></tr><tr><td>Manufacturer/Location</td><td>: Motorola Solutions – Penang</td></tr><tr><td>Requestor</td><td>: RONI KOZIEL</td></tr><tr><td>Product Type</td><td>: LEX L11 Mission Critical LTE Device</td></tr><tr><td>Model Number</td><td>: LEX L11n</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>IC Registrations</td><td>: 109AK</td></tr></table> The equipment was tested accordance to the requirement listed below: <table><tr><td>(LTE Band 66) FCC 47 CFR Part 2 / 27 ISED RSS GEN Issue 4, November 2014 ISED RSS 139 Issue 3, July 2015</td><td>PASS</td></tr></table>		Date/s Tested	: 17-Nov-2017 - 25-Mar-2018	Manufacturer/Location	: Motorola Solutions – Penang	Requestor	: RONI KOZIEL	Product Type	: LEX L11 Mission Critical LTE Device	Model Number	: LEX L11n	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	IC Registrations	: 109AK	(LTE Band 66) FCC 47 CFR Part 2 / 27 ISED RSS GEN Issue 4, November 2014 ISED RSS 139 Issue 3, July 2015	PASS
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Prepared By:  Maheshvaran Rajagopal Technician	Approved By:  Goh Aik Hong Responsible Engineer																						

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REVISION HISTORY

Revision History	Description	Date	Originator
Rev A.	Initial Report	25-March-2018	Maheshvaran Rajagopal
Rev B.	i. Applicant name and address has been added. ii. The battery model number has been revised. iii. AC adapter accessories devices	30-May-2018	Maheshvaran Rajagopal

	information has been added. iv. The Test report number of page format is corrected. v. RSSs version standard have been added to the cover page. vi. Justification statement of accessory devices is included at section 1.5.		
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1.0. Summary of Test Results

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

1.1. Measurement Uncertainty

Measurement	Frequency	Expanded Uncertainty (k=1.96) (±)
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				
Wideband Radio Communication Tester	CMW500	154550	14-Feb-17	14-Feb-19
Signal Analyzer	FSV40	101431	13-Jul-17	12-Jul-19
Chamber	SH-641	92002651	6-Mar-17	6-Mar-18
Power Supply	6621A	US37370810	5-Jun-17	5-Jun-18
Radiated Emission				
Drg Horn Freq.	SAS-571	719	18-Jul-17	18-Jul-19
Drg Horn Freq.	SAS-571	720	2-Mar-17	2-Mar-19
Power Supply	6032A	2615A01178	6-Jun-17	6-Jun-18

Microwave Signal Generator	SMP04	100127	19-Jul-17	18-Jul-18
Emi Test Receiver	ESIB26	100336	13-Jul-17	12-Jul-18
Signal Analyzer	FSV40	101103	18-Jul-17	17-Jul-18
5m Semi-Anechoic Chamber	S800-HX	J2308	Not Required	Not Required
Bilog Antenna	CBL6112B	2950	23-Feb-16	23-Feb-18
BILOG ANTENNA	CBL6112B	2964	3-Feb-17	3-Feb-18
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170143	20-Mar-17	10-Apr-18
DATA LOGGER	SDL500	A.016776	18-Mar-17	18-Mar-18
LOOP ANTENNA	6502	208416	27-Jul-17	27-Jul-18
SYSTEM CONTROLLER	SC104V	050806-1	Not Required	Not Required
TURNTABLE FLUSH MOUNT 2M	FM2011	NA	Not Required	Not Required
ANTENNA POSITIONING TOWER	TLT2	NA	Not Required	Not Required
18 - 40GHz PREAMPLIFIER	BBV9721	9721-007	Not Required	Not Required
PREAMPLIFIER	PAM-0118P	361	Not Required	Not Required
Wideband Radio Communication Tester	CMW500	153174	9-Jan-2017	9-Jan-2019

1.3. General Information

General Description of EUT

Product	LEX L11 Mission Critical LTE Device		
Brand	Motorola Solutions		
Test Model	LEX L11n		
Power Supply Rating	3.7Vdc (Battery), 5Vdc (Adapter)		
Mode of operation	LTE Band 66		
Modulation Type	QPSK, 16QAM		
Operating Frequency	LTE Band 66	Channel Bandwidth 1.4MHz	1710.7MHz~1779.3MHz
		Channel Bandwidth 3MHz	1711.5MHz~1778.5MHz
		Channel Bandwidth 5MHz	1712.5MHz~1777.5MHz
		Channel Bandwidth 10MHz	1715.0MHz~1775.0MHz
		Channel Bandwidth 15MHz	1717.5MHz~1772.5MHz
		Channel Bandwidth 20MHz	1720.0MHz~1770.0MHz
Max. EIRP Power	LTE Band 66 QPSK	Channel Bandwidth 1.4MHz	24.806dBm (0.302W)
		Channel Bandwidth 3MHz	24.942dBm (0.312W)
		Channel Bandwidth 5MHz	24.632dBm (0.291W)
		Channel Bandwidth 10MHz	24.893dBm (0.309W)
		Channel Bandwidth 15MHz	24.685dBm (0.294W)
		Channel Bandwidth 20MHz	24.46dBm (0.279W)
	LTE Band 66 16QAM	Channel Bandwidth 1.4MHz	23.76dBm (0.238W)
		Channel Bandwidth 3MHz	23.953dBm (0.249W)
		Channel Bandwidth 5MHz	23.885dBm (0.245W)
		Channel Bandwidth 10MHz	23.854dBm (0.243W)
		Channel Bandwidth 15MHz	23.875dBm (0.244W)
		Channel Bandwidth 20MHz	24.284dBm (0.268W)

Antenna Type	LTE Band 66	Monopole with 1.59dBi gain
SW Version	L11_D01.00.28	
HW Version	P3a	

Note:

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

Item	Brand	Model or P/N	Specification
Rechargeable Lithium ion battery	Motorola Solutions	PMNN4545A	2500mAH 3.7V LI-ION STD
Rechargeable Lithium ion battery	Motorola Solutions	PMNN4546A	5000mAH 3.7V LI-ION HICAP
Charger Vehicular Adapter VPA	Motorola Solutions	PMLN7779A	18W
Power Supply Adaptor, Power supply Wall cube, AC, DC (USB type A-C)	Motorola Solutions	PS000150A31 - US/JPN plug	7.5W, 100V-240V
Power Supply Adaptor (USB type C-C)	Motorola Solutions	PS000278A01 - US/JPN plug	27W
Detachable Power/Data Cable USB-A to USB-C	Motorola Solutions	CB000756A01	-
Detachable Power/Data Cable USB-C to USB-C	Motorola Solutions	CB000754A01	-

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 66	1.4 MHz	131979 ~ 132665	131979	132322	132665	1710.7	1745.0	1779.3
	3 MHz	131987 ~ 132657	131987	132322	132657	1711.5	1745.0	1778.5
	5 MHz	131997 ~ 132647	131997	132322	132647	1712.5	1745.0	1777.5
	10 MHz	132022 ~ 132622	132022	132322	132622	1715.0	1745.0	1775.0
	15 MHz	132047 ~ 132597	132047	132322	132597	1717.5	1745.0	1772.5
	20 MHz	132072 ~ 132572	132072	132322	132572	1720.0	1745.0	1770.0

1.5. Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The Radiated Emission worst case was found when positioned on Z-Plane for LTE band 66.

Pre-scan also have been conducted with the accessory devices listed in section table 1.3, only the worst case radiated emission results of the combination test configuration is reported in this report.

The following channel(s) was (were) selected for the final test as listed below:

LTE Band 66

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Uplink Modulation	Mode
Conducted RF Output Power/ Equivalent Isotropically Radiated Power (EIRP)	131979 ~ 132665	131979, 132322, 132665	1.4 MHz	QPSK, 16QAM	As per table 1.6.2 & 1.6.4
	131987 ~ 132657	131987, 132322, 132657	3 MHz		
	131997 ~ 132647	131997, 132322, 132647	5 MHz		
	132022 ~ 132622	132047, 132322, 132622	10 MHz		
	132047 ~ 132597	132047, 132322, 132597	15 MHz		
	132072 ~ 132572	132072, 132322, 132572	20 MHz		
Peak to Average Power Ratio	131979 ~ 132665	131979, 132322, 132665	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
	131987 ~ 132657	131987, 132322, 132657	3 MHz		15 RB / 0 RB Offset
	131997 ~ 132647	131997, 132322, 132647	5 MHz		25 RB / 0 RB Offset
	132022 ~ 132622	132047, 132322, 132622	10 MHz		50 RB / 0 RB Offset
	132047 ~ 132597	132047, 132322, 132597	15 MHz		75 RB / 0 RB Offset
	132072 ~ 132572	132072, 132322, 132572	20 MHz		100 RB / 0 RB Offset
Occupied Bandwidth	131979 ~ 132665	131979, 132322, 132665	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
	131987 ~ 132657	131987, 132322, 132657	3 MHz		15 RB / 0 RB Offset
	131997 ~ 132647	131997, 132322, 132647	5 MHz		25 RB / 0 RB Offset
	132022 ~ 132622	132047, 132322, 132622	10 MHz		50 RB / 0 RB Offset
	132047 ~ 132597	132047, 132322, 132597	15 MHz		75 RB / 0 RB Offset
	132072 ~ 132572	132072, 132322, 132572	20 MHz		100 RB / 0 RB Offset
Frequency Stability	131979 ~ 132665	131979, 132665	1.4 MHz	QPSK	6 RB / 0 RB Offset
	131987 ~ 132657	131987, 132657	3 MHz		15 RB / 0 RB Offset
	131997 ~ 132647	131997, 132647	5 MHz		25 RB / 0 RB Offset
	132022 ~ 132622	132047, 132622	10 MHz		50 RB / 0 RB Offset
	132047 ~ 132597	132047, 132597	15 MHz		75 RB / 0 RB Offset
	132072 ~ 132572	132072, 132572	20 MHz		100 RB / 0 RB Offset
Band Edge	131979 ~ 132665	1131979, 132665	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset

Conducted Spurious Emission					1 RB / 5 RB Offset
					6 RB / 0 RB Offset
	131987 ~ 132657	131987, 132657	3 MHz		1 RB / 0 RB Offset 1 RB / 14 RB Offset 15 RB / 0 RB Offset
	131997 ~ 132647	131997, 132647	5 MHz		1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
	132022 ~ 132622	132047, 132622	10 MHz		1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
	132047 ~ 132597	132047, 132597	15 MHz		1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
	132072 ~ 132572	132072, 132572	20 MHz		1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset
Conducted Spurious Emission	131979 ~ 132665	131979, 132322, 132665	1.4 MHz	QPSK	1 RB / 3 RB Offset
	131987 ~ 132657	131987, 132322, 132657	3 MHz		1 RB / 7 RB Offset
	131997 ~ 132647	131997, 132322, 132647	5 MHz		1 RB / 13 RB Offset
	132022 ~ 132622	132047, 132322, 132622	10 MHz		1 RB / 0 RB Offset
	132047 ~ 132597	132047, 132322, 132597	15 MHz		1 RB / 0 RB Offset
	132072 ~ 132572	132072, 132322, 132572	20 MHz		1 RB / 0 RB Offset
Radiated Spurious Emission	131979 ~ 132665	131979, 132322, 132665	1.4 MHz	QPSK	1 RB / 3 RB Offset
	131987 ~ 132657	131987, 132322, 132657	3 MHz		1 RB / 7 RB Offset
	131997 ~ 132647	131997, 132322, 132647	5 MHz		1 RB / 13 RB Offset
	132022 ~ 132622	132047, 132322, 132622	10 MHz		1 RB / 0 RB Offset
	132047 ~ 132597	132047, 132322, 132597	15 MHz		1 RB / 0 RB Offset
	132072 ~ 132572	132072, 132322, 132572	20 MHz		1 RB / 0 RB Offset

NOTE:

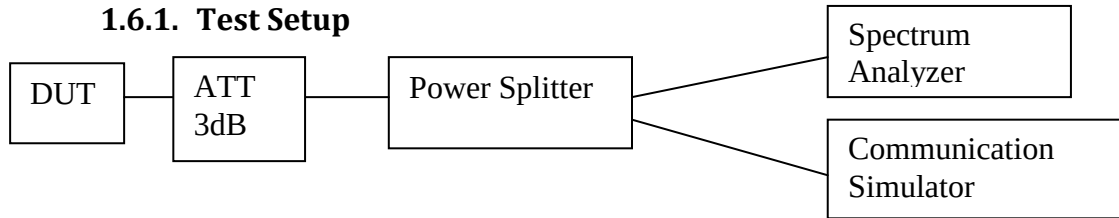
1. The Conducted RF Output Power for QPSK and 16QAM, measured value of QPSK mode is higher than 16QAM mode. Therefore, only Conducted Spurious Emission and Radiated Emission had been tested under QPSK modes.
2. Band Edge was performed with 1 and full Resource Block at the lowest and highest operating frequency band.
3. The 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/ Equivalent Isotropically Radiated Power (EIRP)	25°C, 50% RH	3.7V DC	Maheshvaran
Peak-to-Average Power Ratio	25°C, 50% RH	3.7V DC	Maheshvaran
Occupied Bandwidth	25°C, 50% RH	3.7V DC	Maheshvaran
Frequency Stability	25°C, 50% RH	3.7V DC	Maheshvaran
Band Edge Conducted Spurious Emission	25°C, 50% RH	3.7V DC	Maheshvaran
Conducted Spurious Emission	25°C, 50% RH	3.7V DC	Maheshvaran
Radiated Spurious Emission	25°C, 63.7% RH	3.7V DC	Nazrin/Qawiman

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.
 ISSED: 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 66 (1710-1780MHz)

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
			131979	132322	132665	131979	132322	132665
			1710.7 MHz	1745 MHz	1779.3 MHz	1710.7 MHz	1745 MHz	1779.3 MHz
band 66 / 1.4 MHz	1	0	23.184	22.979	22.86	22.121	22.081	21.859
	1	3	23.216	23.008	22.915	22.17	22.149	21.901
	1	5	23.166	22.966	22.838	22.119	22.106	21.816
	3	0	23.138	22.943	22.816	22.309	22.113	21.773
	3	2	23.186	22.997	22.837	22.345	22.147	21.836
	3	3	23.144	22.924	22.786	22.293	22.094	21.791
	6	0	22.16	21.969	21.898	21.18	21	20.863

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
			131987	132322	132657	131987	132322	132657
			1711.5 MHz	1745 MHz	1778.5 MHz	1711.5 MHz	1745 MHz	1778.5 MHz
band 66 / 3MHz	1	0	23.256	22.852	22.961	22.198	22.228	21.986
	1	7	23.352	23.014	23.008	22.275	22.363	22.038
	1	14	23.243	22.909	22.847	22.141	22.211	21.871
	8	0	22.261	22.061	21.99	21.264	21.158	20.941
	8	4	22.271	22.024	21.986	21.274	21.202	20.944

	8	7	22.243	22.029	21.967	21.228	21.159	20.91
	15	0	22.255	22.042	21.924	21.24	21.079	20.939

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
			131997	132322	132647	131997	132322	132647
			1712.5MHz	1745MHz	1777.5MHz	1712.5MHz	1745MHz	1777.5MHz
band 66 / 5MHz	1	0	23.235	23.034	22.962	22.312	22.282	21.908
	1	13	23.249	23.09	22.949	22.316	22.295	21.915
	1	25	23.136	23.042	22.9	22.263	22.227	21.805
	12	0	22.249	22.074	21.997	21.164	21.035	21.015
	12	6	22.285	22.081	21.986	21.183	21.054	21.016
	12	13	22.228	22.058	21.937	21.149	21.027	20.954
	25	0	22.229	22.056	22.011	21.226	21.04	20.961

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
			132022	132322	132622	132022	132322	132622
			1715MHz	1745MHz	1775MHz	1715MHz	1745MHz	1775MHz
band 66 / 10MHz	1	0	23.303	22.926	23.034	22.256	22.264	22.038
	1	25	23.229	22.927	22.96	22.132	22.293	22.023
	1	49	23.2	22.995	22.86	22.085	22.308	21.908
	25	0	22.27	22.063	22.127	21.295	21.123	21.215
	25	13	22.245	22.058	22.054	21.282	21.116	21.133
	25	25	22.165	22.069	21.983	21.261	21.129	21.067
	50	0	22.255	22.064	22.061	21.261	21.12	21.065

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
			132047	132322	132597	132047	132322	132597
			1717.5MHz	1745MHz	1772.5MHz	1717.5MHz	1745MHz	1772.5MHz
band 66 / 15MHz	1	0	23.362	23.095	22.532	22.285	22.276	21.443
	1	38	23.169	22.955	23.056	22.099	22.25	22.08
	1	74	23.086	23.168	22.949	21.999	22.437	21.951
	36	0	22.283	22.068	21.903	21.265	21.097	20.98
	36	19	22.254	22.064	22.114	21.217	21.069	21.154
	36	39	22.182	22.048	22.015	21.13	21.076	21.047
	75	0	22.187	22.071	22.073	21.199	21.076	21.152

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
			132072	132322	132572	132072	132322	132572
			1720MHz	1745MHz	1770MHz	1720MHz	1745MHz	1770MHz
band 66 / 20MHz	1	0	23.57	22.87	22.555	22.694	21.813	21.976
	1	49	23.04	22.95	23.016	22.456	21.925	22.506
	1	99	22.494	23.106	22.903	21.77	22.094	22.376
	50	0	22.298	22.141	21.497	21.282	21.12	20.551
	50	25	22.219	22.128	22.078	21.255	21.091	21.088
	50	50	22.101	22.108	22.078	21.159	21.096	21.059
	100	0	22.257	22.115	22.096	21.243	21.156	21.119

1.6.4. Equivalent Isotropically Radiated Power (EIRP) – LTE Band 66 (1710-1780Mhz)

EIRP (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			131979	132322	132665	131979	132322	132665
			1710.7 MHz	1745 MHz	1779.3 MHz	1710.7 MHz	1745 MHz	1779.3 MHz
Band 66 / 1.4 MHz	1	0	24.774	24.569	24.45	23.711	23.671	23.449
	1	3	24.806	24.598	24.505	23.76	23.739	23.491
	1	5	24.756	24.556	24.428	23.709	23.696	23.406
	3	0	24.728	24.533	24.406	23.899	23.703	23.363
	3	2	24.776	24.587	24.427	23.935	23.737	23.426
	3	3	24.734	24.514	24.376	23.883	23.684	23.381
	6	0	23.75	23.559	23.488	22.77	22.59	22.453

EIRP (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			131987	132322	132657	131987	132322	132657
			1711.5 MHz	1745 MHz	1778.5 MHz	1711.5 MHz	1745 MHz	1778.5 MHz
Band 66 / 3MHz	1	0	24.846	24.442	24.551	23.788	23.818	23.576
	1	7	24.942	24.604	24.598	23.865	23.953	23.628
	1	14	24.833	24.499	24.437	23.731	23.801	23.461
	8	0	23.851	23.651	23.58	22.854	22.748	22.531

	8	4	23.861	23.614	23.576	22.864	22.792	22.534
	8	7	23.833	23.619	23.557	22.818	22.749	22.5
	15	0	23.845	23.632	23.514	22.83	22.669	22.529

EIRP (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			131997	132322	132647	131997	132322	132647
			1712.5MHz	1745MHz	1777.5MHz	1712.5MHz	1745MHz	1777.5MHz
Band 66 / 5MHz	1	0	24.825	24.624	24.552	23.902	23.872	23.498
	1	13	24.839	24.68	24.539	23.906	23.885	23.505
	1	24	24.726	24.632	24.49	23.853	23.817	23.395
	12	0	23.839	23.664	23.587	22.754	22.625	22.605
	12	6	23.875	23.671	23.576	22.773	22.644	22.606
	12	13	23.818	23.648	23.527	22.739	22.617	22.544
	25	0	23.819	23.646	23.601	22.816	22.63	22.551

EIRP (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			132022	132322	132622	132022	132322	132622
			1715MHz	1745MHz	1775MHz	1715MHz	1745MHz	1775MHz
Band 66 / 10MHz	1	0	24.893	24.516	24.624	23.846	23.854	23.628
	1	25	24.819	24.517	24.55	23.722	23.883	23.613
	1	49	24.79	24.585	24.45	23.675	23.898	23.498
	25	0	23.86	23.653	23.717	22.885	22.713	22.805
	25	13	23.835	23.648	23.644	22.872	22.706	22.723
	25	25	23.755	23.659	23.573	22.851	22.719	22.657
	50	0	23.845	23.654	23.651	22.851	22.71	22.655

EIRP (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			132047	132322	132597	132047	132322	132597
			1717.5MHz	1745MHz	1772.5MHz	1717.5MHz	1745MHz	1772.5MHz
Band 66 / 15MHz	1	0	24.952	24.685	24.122	23.875	23.866	23.033
	1	38	24.759	24.545	24.646	23.689	23.84	23.67
	1	74	24.676	24.758	24.539	23.589	24.027	23.541
	36	0	23.873	23.658	23.493	22.855	22.687	22.57
	36	19	23.844	23.654	23.704	22.807	22.659	22.744
	36	39	23.772	23.638	23.605	22.72	22.666	22.637
	75	0	23.777	23.661	23.663	22.789	22.666	22.742

EIRP (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			132072	132322	132572	132072	132322	132572
			1720MHz	1745MHz	1770MHz	1720MHz	1745MHz	1770MHz
Band 66 / 20MHz	1	0	25.16	24.46	24.145	24.284	23.403	23.566
	1	49	24.63	24.54	24.606	24.046	23.515	24.096
	1	99	24.084	24.696	24.493	23.36	23.684	23.966
	50	0	23.888	23.731	23.087	22.872	22.71	22.141
	50	25	23.809	23.718	23.668	22.845	22.681	22.678
	50	50	23.691	23.698	23.668	22.749	22.686	22.649
	100	0	23.847	23.705	23.686	22.833	22.746	22.709

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

$$\text{EIRP} = \text{P}_{\text{Meas}} + \text{G}_T$$

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

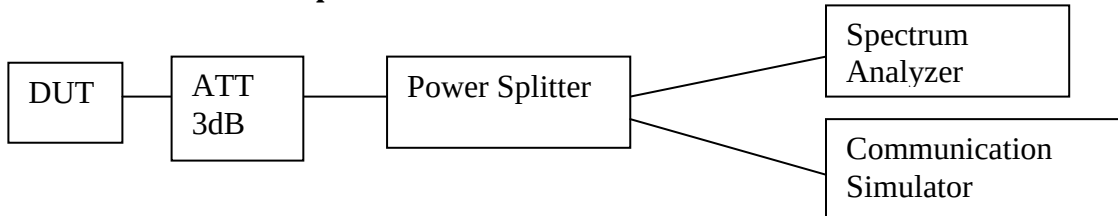
Where, ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively
 (Expressed in the same units as P_{Meas} , e.g., dBm)

P_{Meas} measured transmitter output power, in dBm

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

1.7. Peak-to-Average Power Ratio

1.7.1. Test Setup



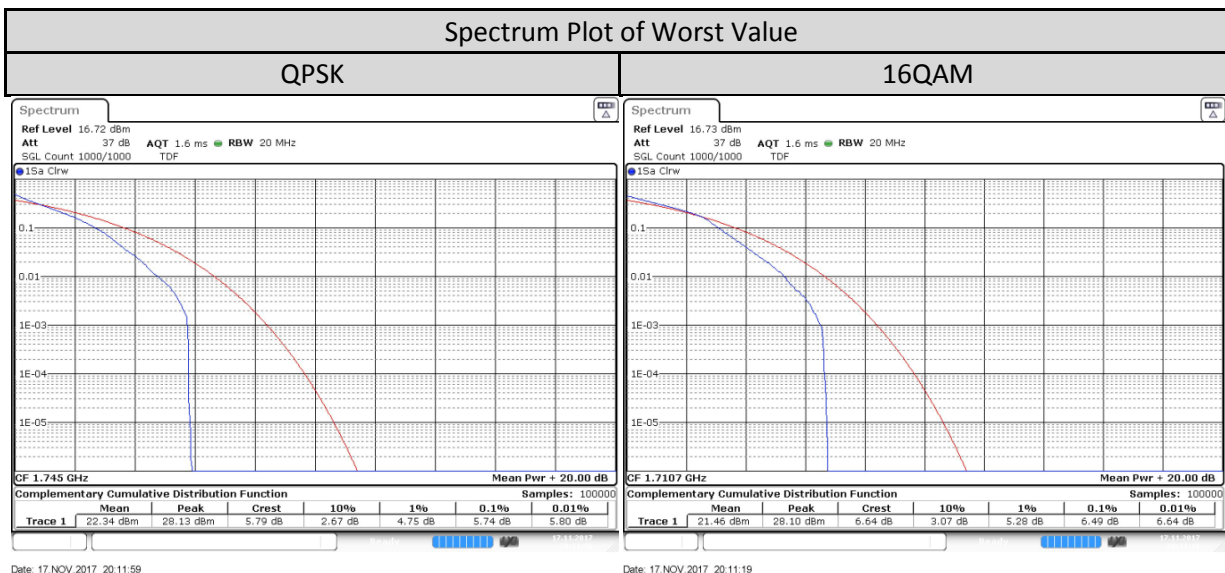
1. The DUT transmitter output port was connected to communication simulator with above setup.
2. Path loss for the measurement included.
3. Set DUT to transmit maximum power through communication simulator
4. Set the CCDF (Complementary Cumulative Distribution Function) option in the spectrum analyzer.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

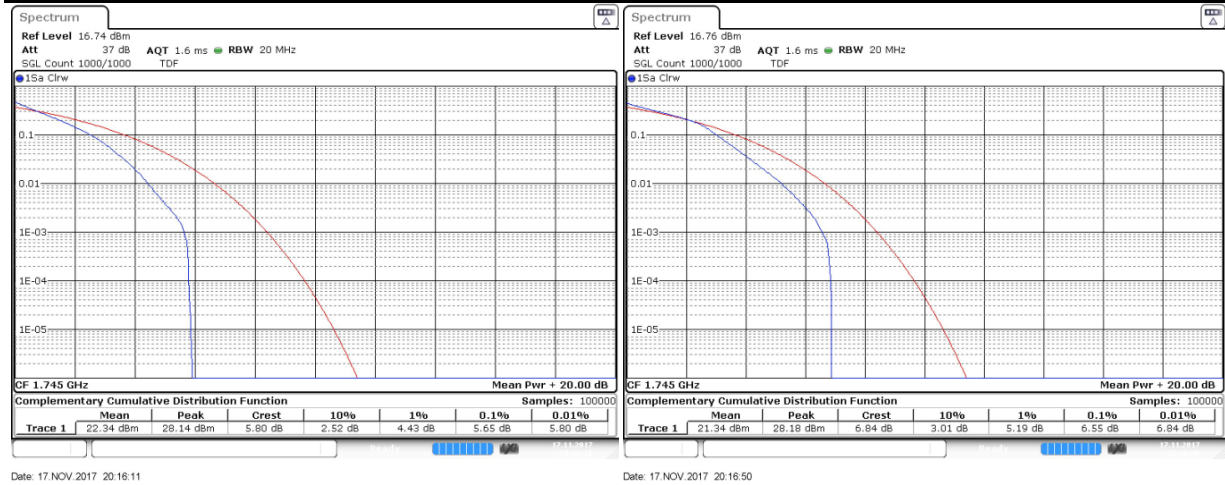
1.7.3. Peak-to-Average Power Ratio - LTE Band 66 (1710-1780Mhz)

LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 66/1.4MHz/6/0	Low CH 131979	1710.7 MHz	5.536	6.493
	Mid CH 132322	1745 MHz	5.739	6.377
	High CH 132665	1779.3 MHz	4.87	5.884



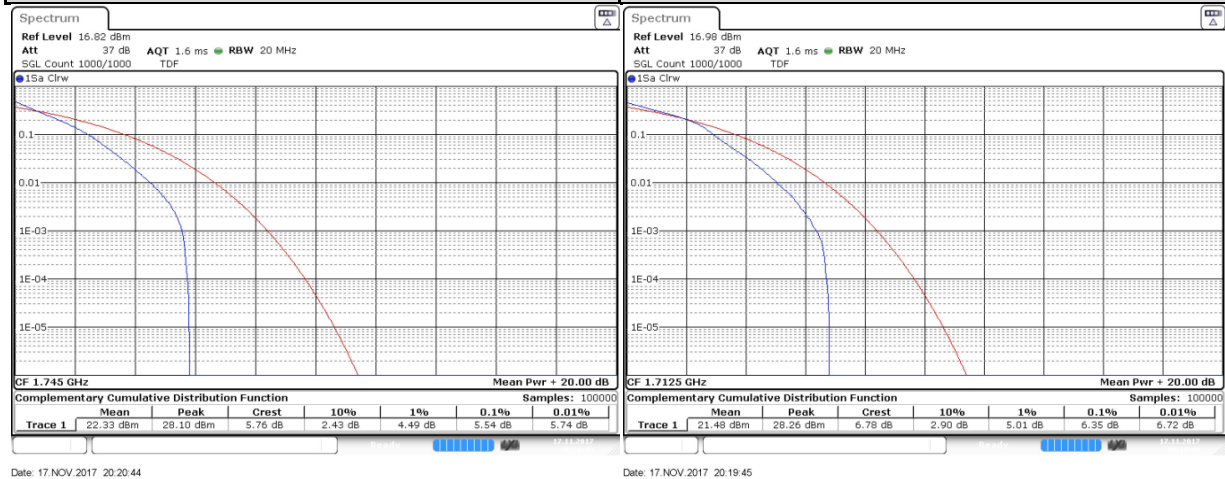
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 66/3MHz/15/0	Low CH 131987	1711.5 MHz	5.536	6.493
	Mid CH 132322	1745 MHz	5.652	6.551
	High CH 132657	1778.5 MHz	5.043	6.203

Spectrum Plot of Worst Value	
QPSK	16QAM



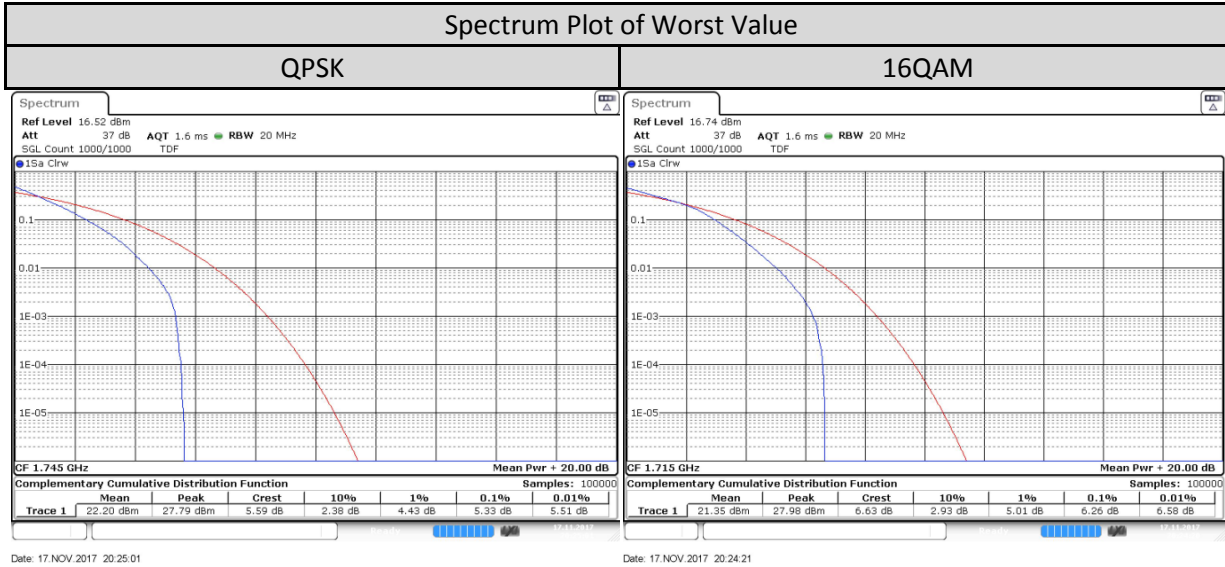
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 66/5MHz/25/0	Low CH 131997	1712.5 MHz	5.449	6.348
	Mid CH 132322	1745 MHz	5.536	6.29
	High CH 132647	1777.5 MHz	5.246	6.261

Spectrum Plot of Worst Value	
QPSK	16QAM

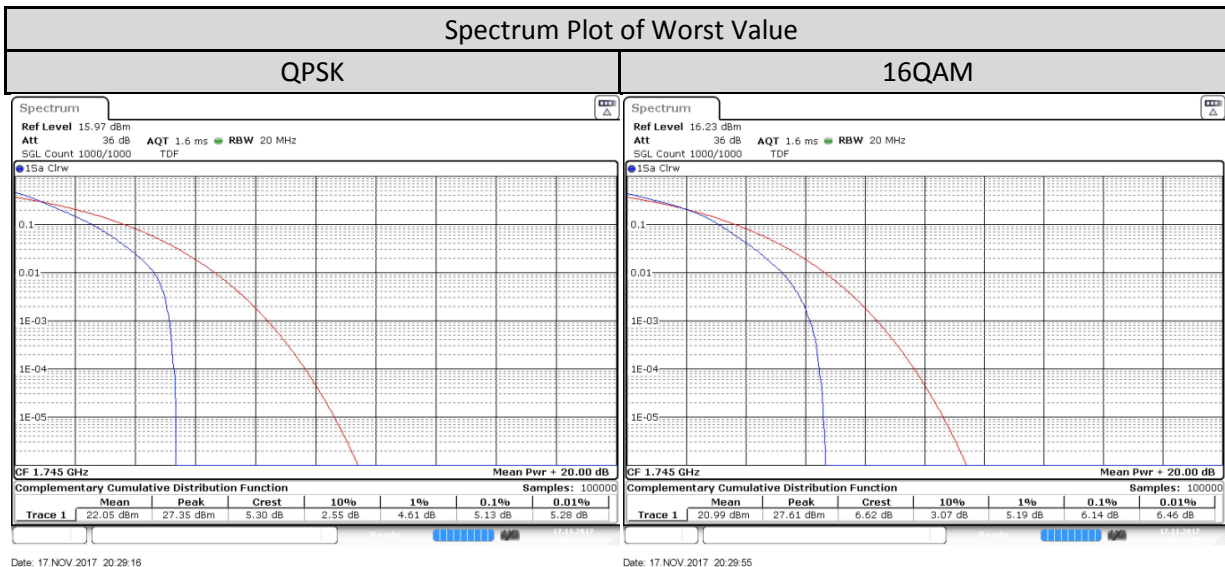


LTE Band/BW/RB	Channel Number	Tx	Peak To Average (dB)
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Size/RB Offset		Frequency	QPSK Modulation	16QAM Modulation
Band 66/10MHz/50/0	Low CH 132022	1715 MHz	5.304	6.261
	Mid CH 132322	1745 MHz	5.333	6.261
	High CH 132622	1775 MHz	5.014	6.087

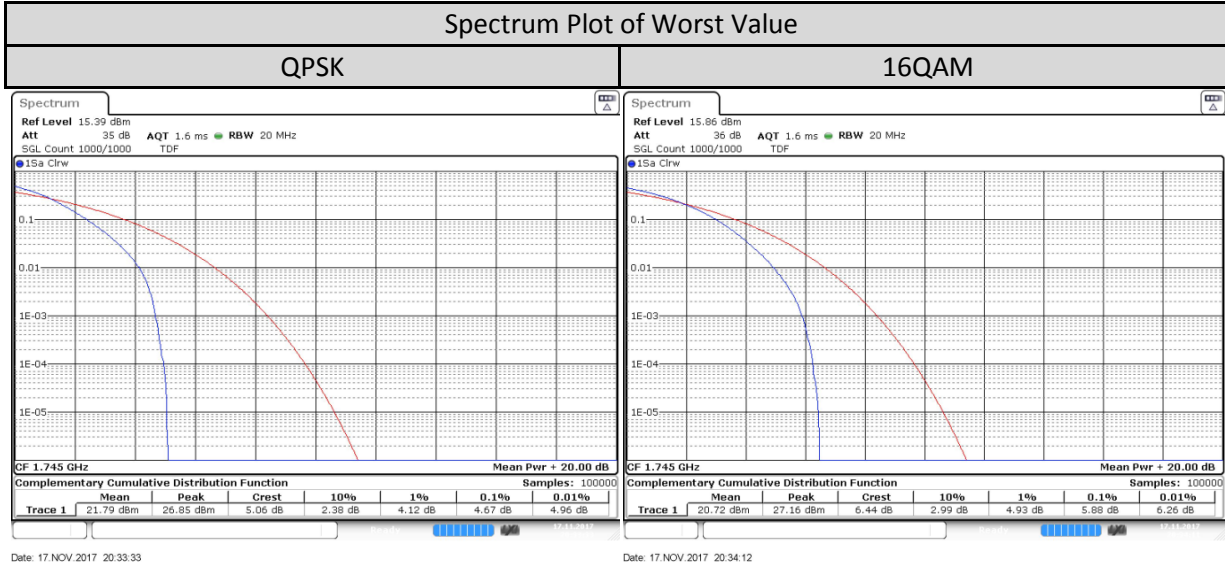


LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 66/15MHz/75/0	Low CH 132047	1717.5 MHz	4.986	6.058
	Mid CH 132322	1745 MHz	5.13	6.145
	High CH 132597	1772.5 MHz	4.957	5.942



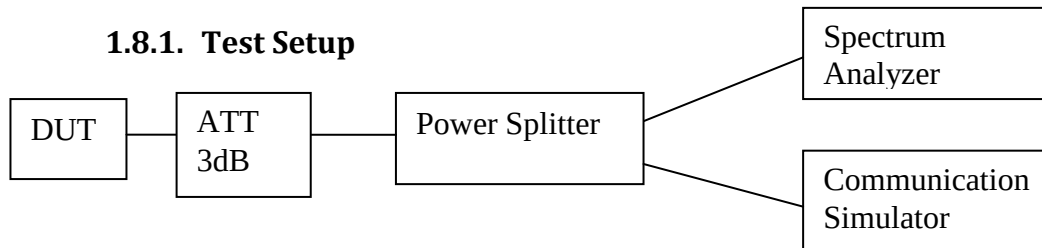
LTE Band/BW/RB	Channel Number	Tx	Peak To Average (dB)
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Size/RB Offset		Frequency	QPSK Modulation	16QAM Modulation
Band 66/ 20MHz/100/0	Low CH 132072	1720 MHz	4.493	5.594
	Mid CH 132322	1745 MHz	4.667	5.884
	High CH 132572	1770 MHz	4.638	5.681



1.8. Occupied Bandwidth

1.8.1. Test Setup



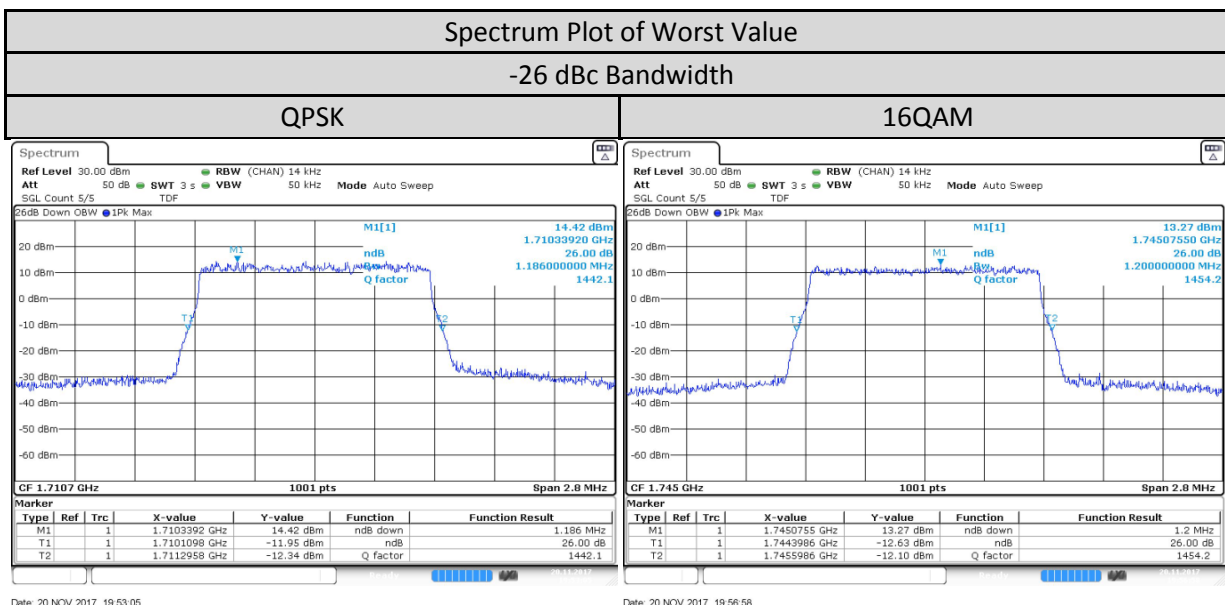
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) For LTE measurement, set DUT to transmit maximum power & full RB size through communication simulator.
- 4) For LTE measurement, set DUT to transmit maximum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

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.

1.8.3. Occupied Bandwidth – LTE Band 66 (1710-1780Mhz)

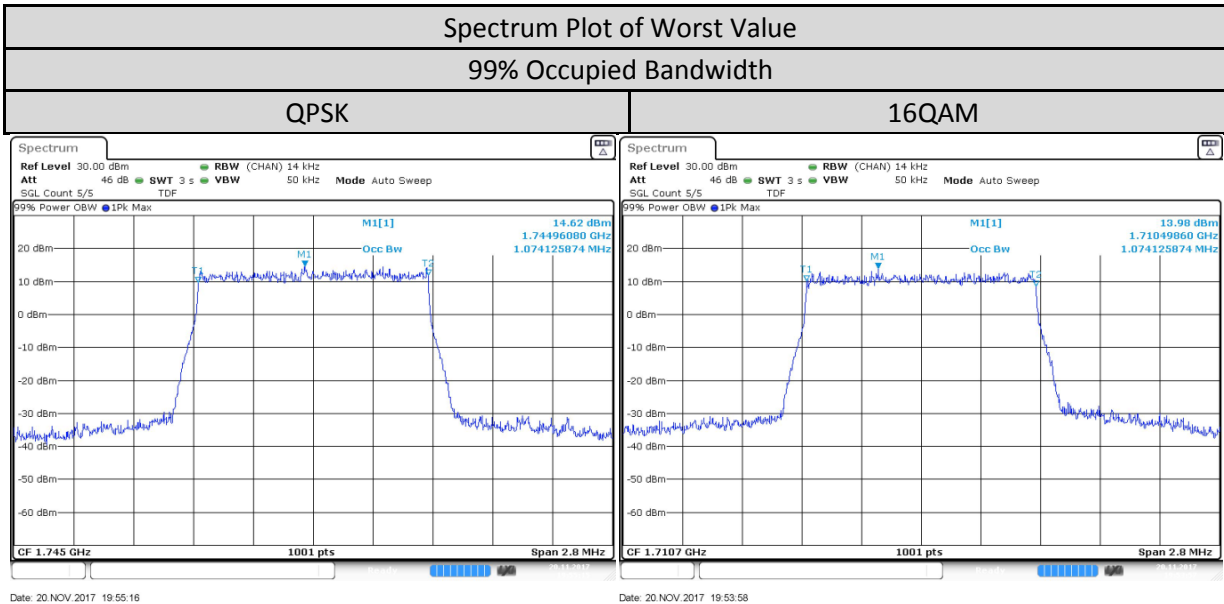
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 66/1.4MHz/6/0	Low CH 131979	1710.7 MHz	1.186	1.189
	Mid CH 132322	1745 MHz	1.18	1.2
	High CH 132665	1779.3 MHz	1.186	1.18



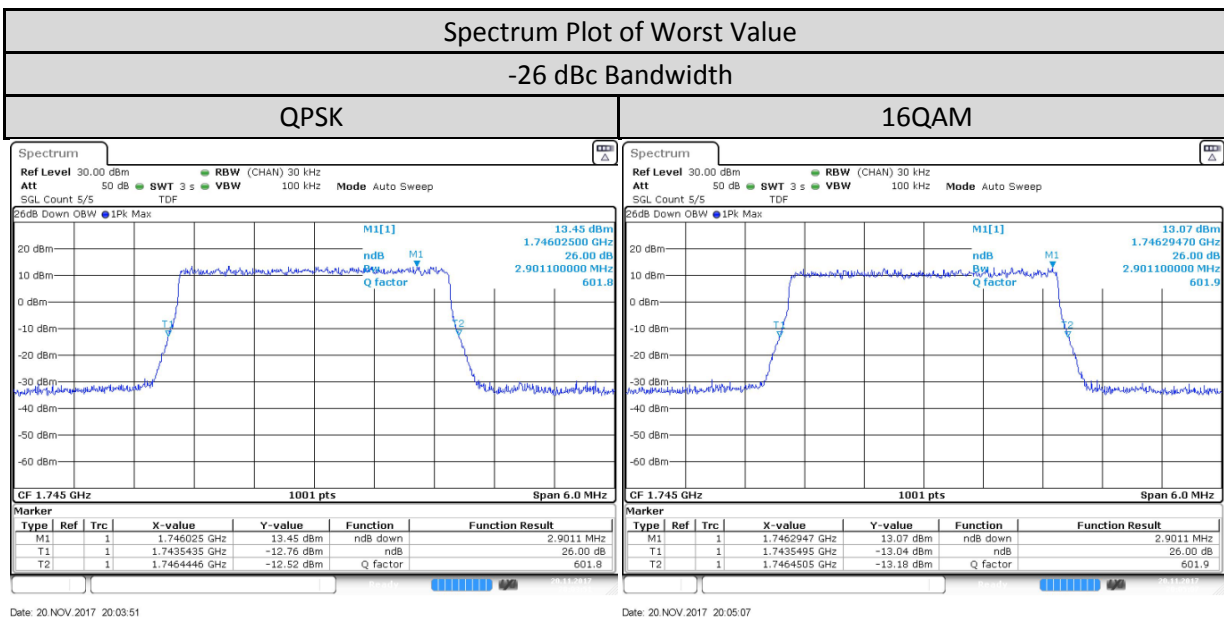
Date: 20 NOV 2017 19:53:05

Date: 20 NOV 2017 19:56:58

LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 66/1.4MHz/6/0	Low CH 131979	1710.7 MHz	1.071	1.074
	Mid CH 132322	1745 MHz	1.074	1.074
	High CH 132665	1779.3 MHz	1.074	1.071



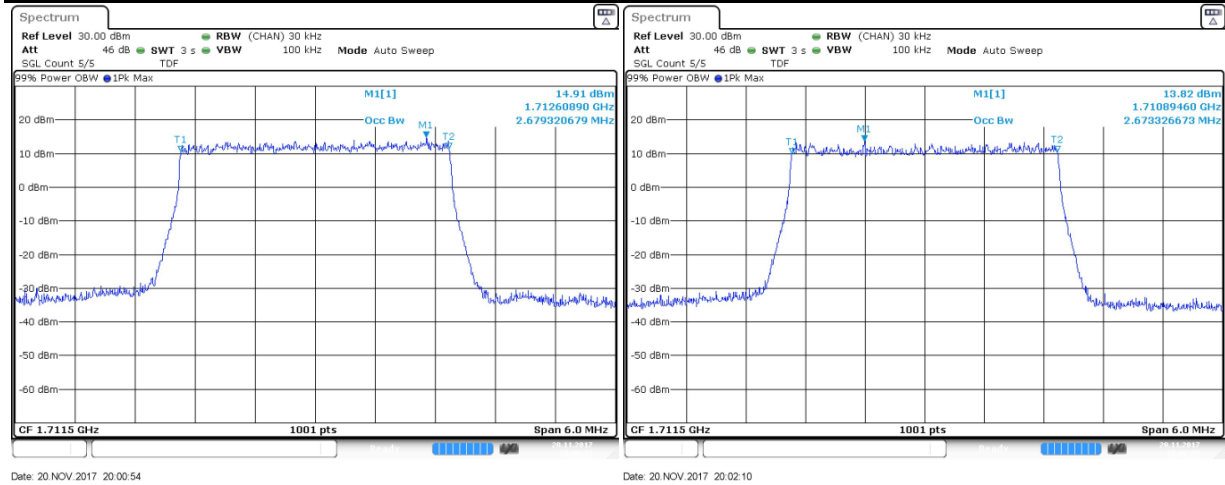
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 66/3MHz/15/0	Low CH 131987	1711.5 MHz	2.883	2.895
	Mid CH 132322	1745 MHz	2.901	2.901
	High CH 132657	1778.5 MHz	2.865	2.883



LTE Band/BW/RB	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)
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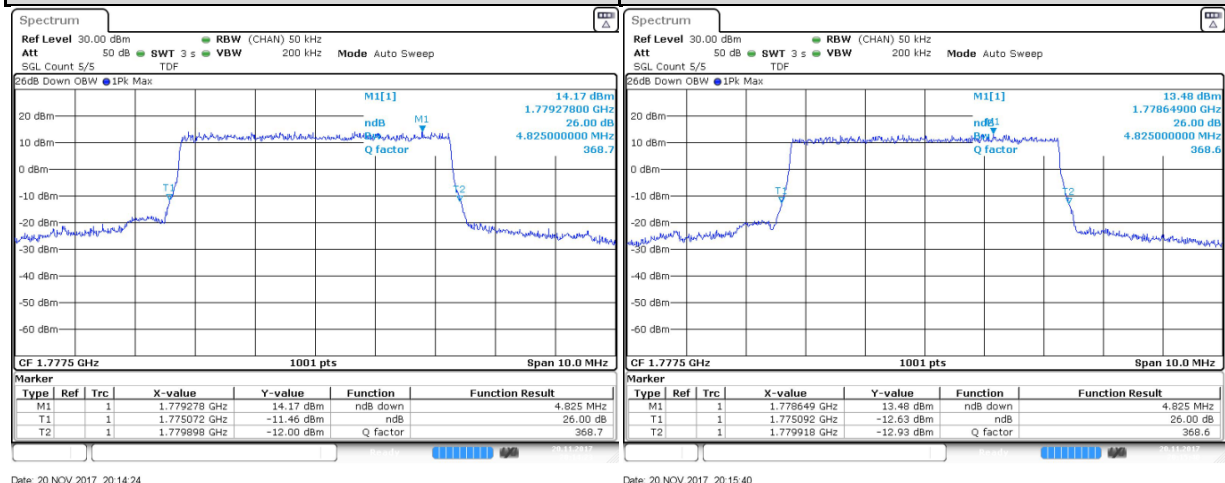
Size/RB Offset			QPSK Modulation	16QAM Modulation
Band 66/3MHz/15/0	Low CH 131987	1711.5 MHz	2.679	2.673
	Mid CH 132322	1745 MHz	2.679	2.673
	High CH 132657	1778.5 MHz	2.673	2.673

Spectrum Plot of Worst Value	
99% Occupied Bandwidth	
QPSK	16QAM



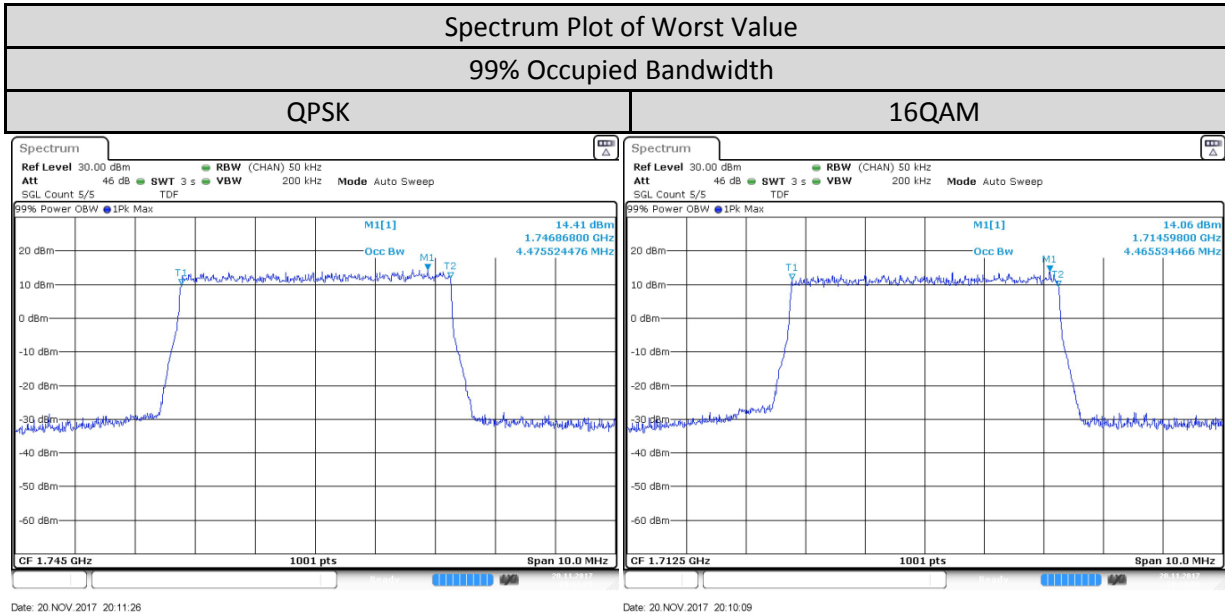
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 66/5MHz/25/0	Low CH 131997	1712.5 MHz	4.785	4.765
	Mid CH 132322	1745 MHz	4.815	4.795
	High CH 132647	1777.5 MHz	4.825	4.825

Spectrum Plot of Worst Value	
-26 dBc Bandwidth	
QPSK	16QAM

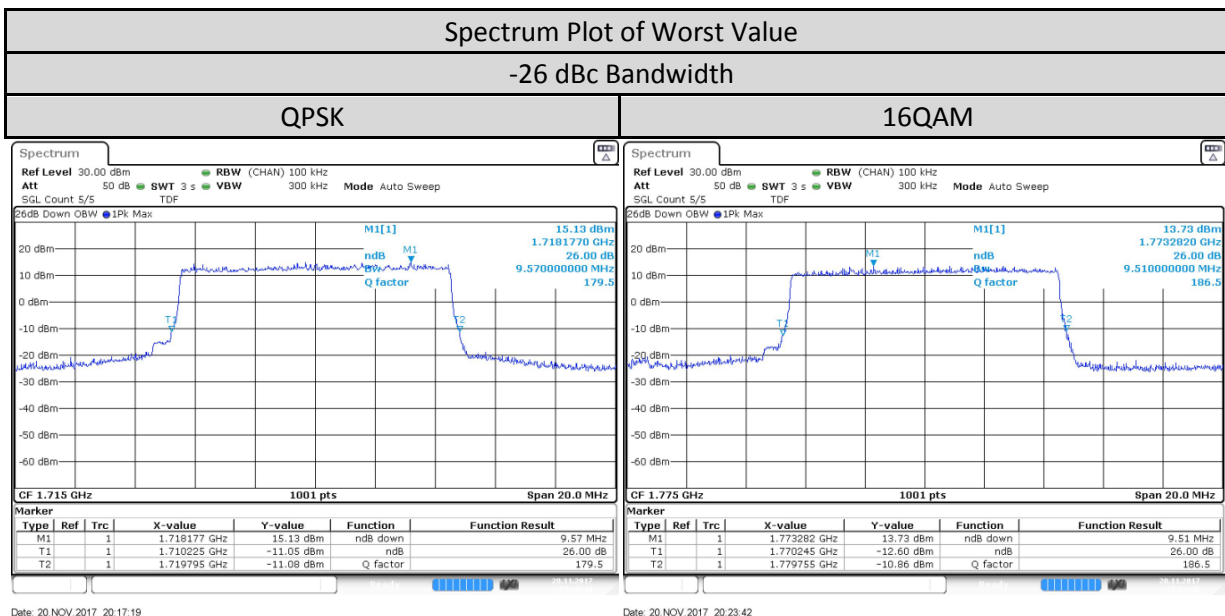


LTE Band/BW/RB	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)
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Size/RB Offset			QPSK Modulation	16QAM Modulation
Band 66/5MHz/25/0	Low CH 131997	1712.5 MHz	4.466	4.466
	Mid CH 132322	1745 MHz	4.476	4.466
	High CH 132647	1777.5 MHz	4.466	4.466

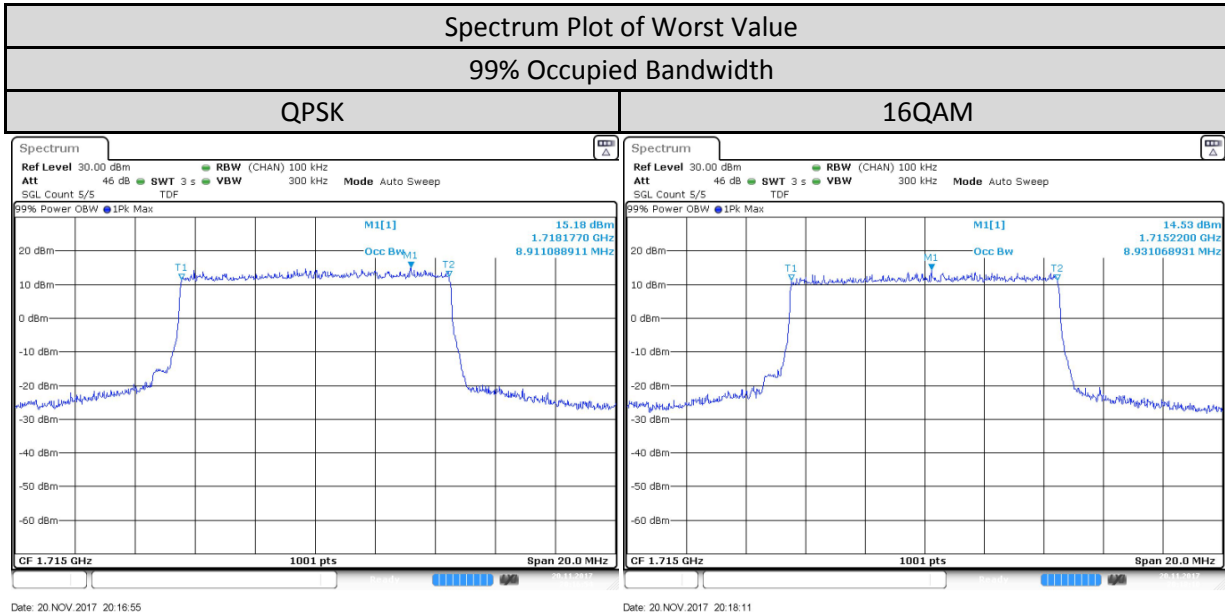


LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 66/10MHz/50/0	Low CH 132022	1715 MHz	9.57	9.491
	Mid CH 132322	1745 MHz	9.57	9.471
	High CH 132622	1775 MHz	9.51	9.51

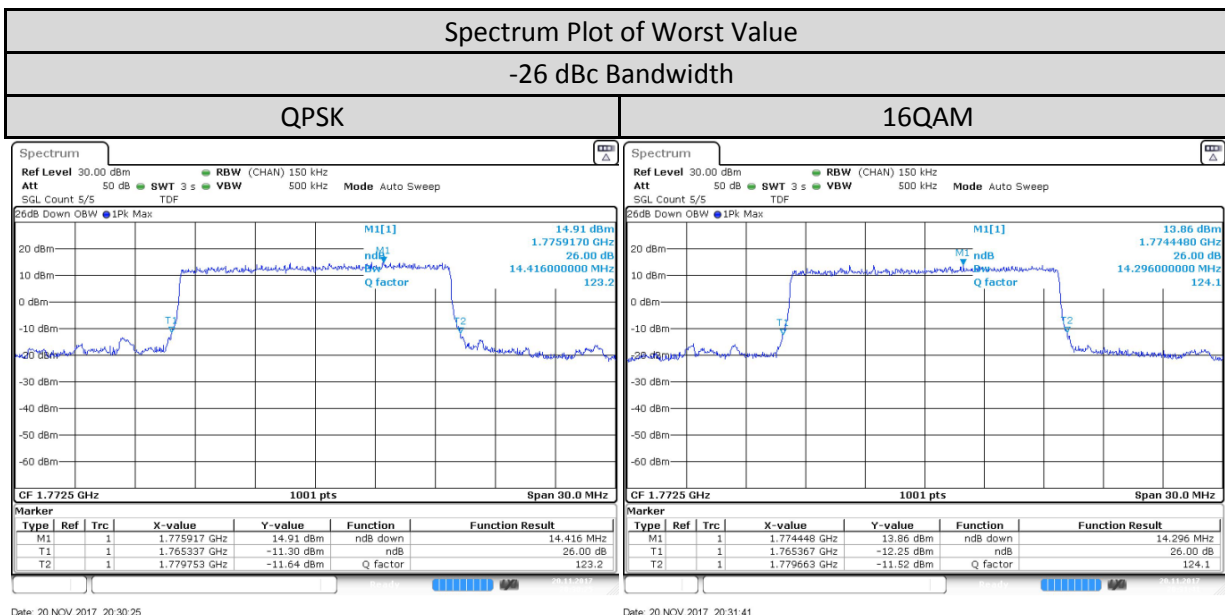


LTE Band/BW/RB	Channel Number	Tx	99% Occupied Bandwidth (MHz)
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Size/RB Offset		Frequency	QPSK Modulation	16QAM Modulation
Band 66/10MHz/50/0	Low CH 132022	1715 MHz	8.911	8.931
	Mid CH 132322	1745 MHz	8.911	8.931
	High CH 132622	1775 MHz	8.911	8.931

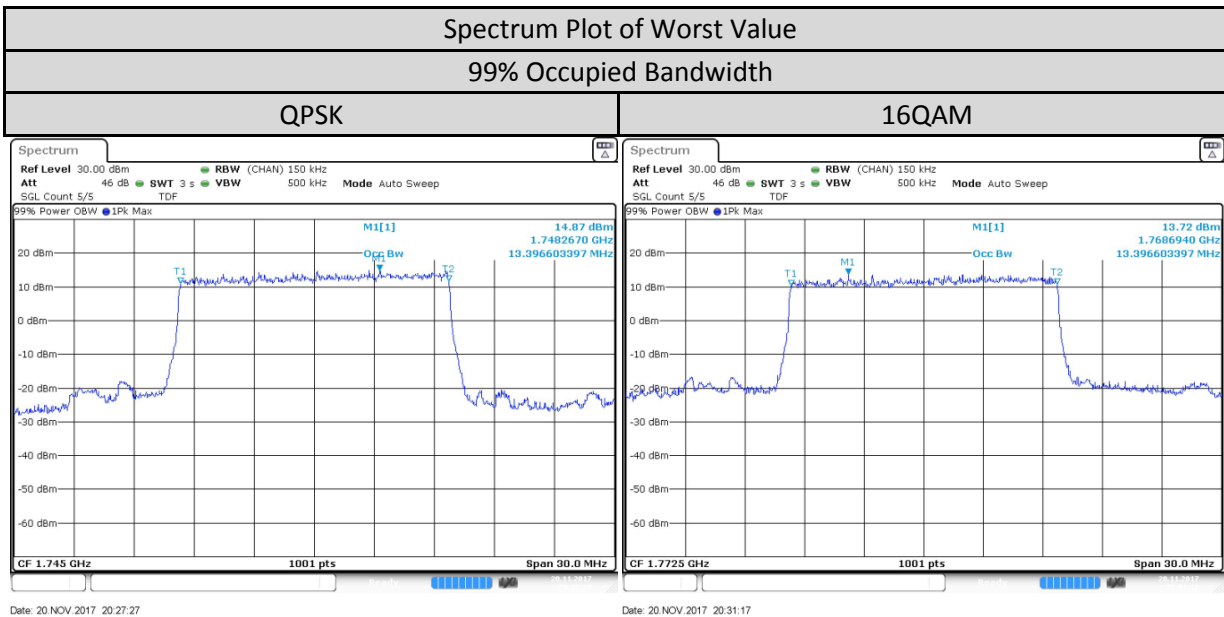


LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 66/15MHz/75/0	Low CH 132047	1717.5 MHz	14.326	14.146
	Mid CH 132322	1745 MHz	14.236	14.146
	High CH 132597	1772.5 MHz	14.416	14.296

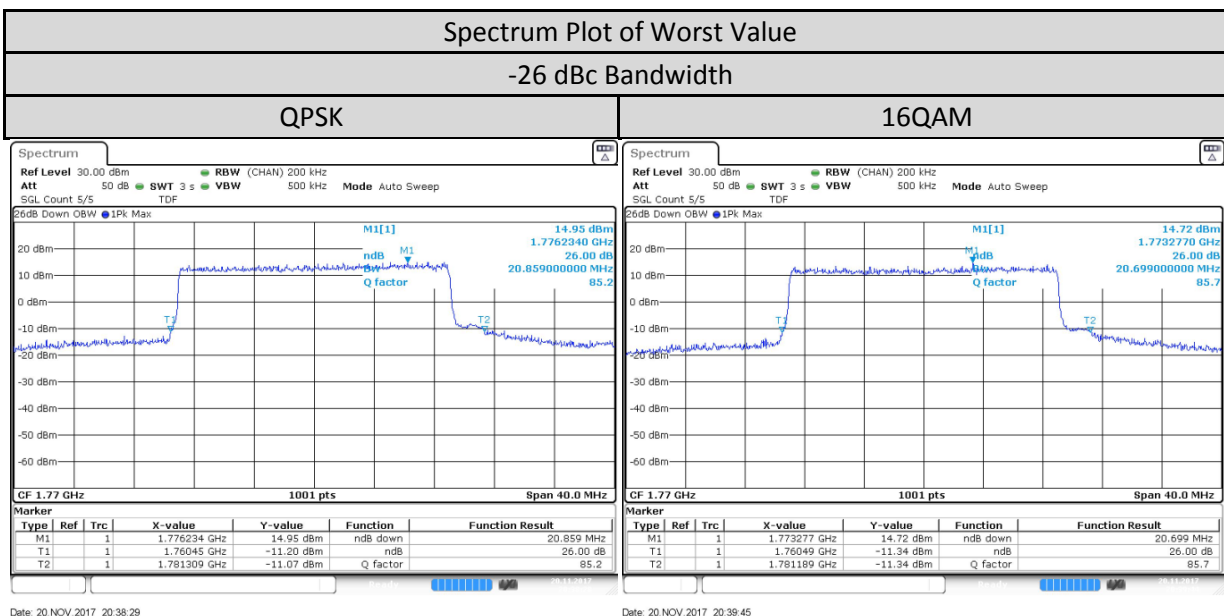


LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation

Band 66/15MHz/75/0	Low CH 132047	1717.5 MHz	13.367	13.367
	Mid CH 132322	1745 MHz	13.397	13.367
	High CH 132597	1772.5 MHz	13.397	13.397

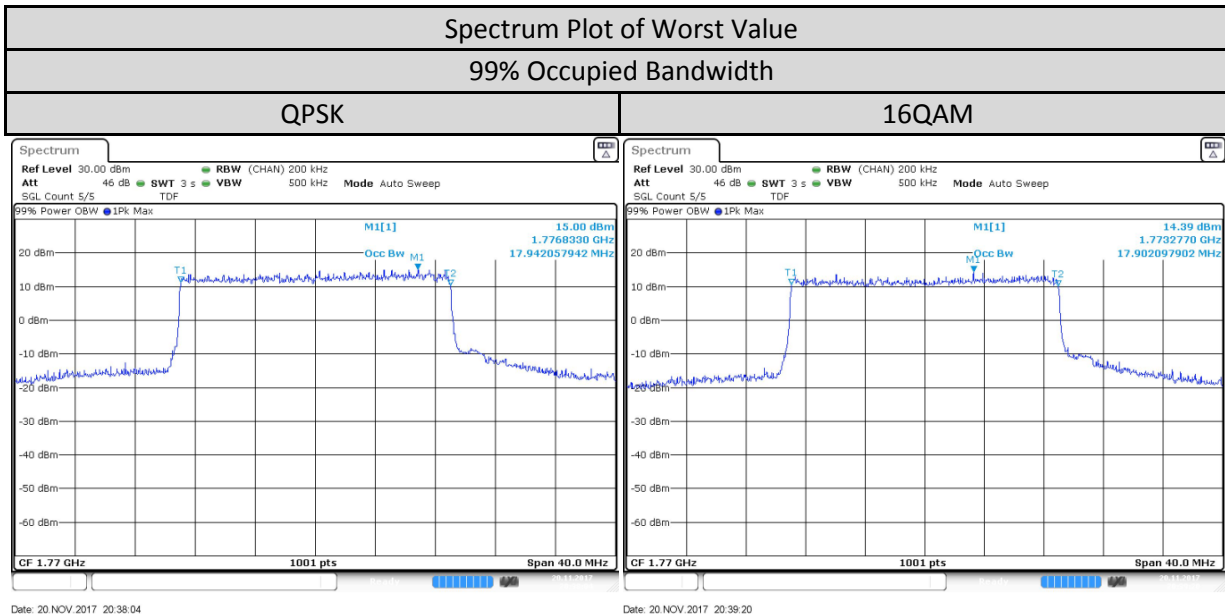


LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 66/20MHz/100/0	Low CH 132072	1720 MHz	19.061	18.941
	Mid CH 132322	1745 MHz	18.861	18.941
	High CH 132572	1770 MHz	20.859	20.699



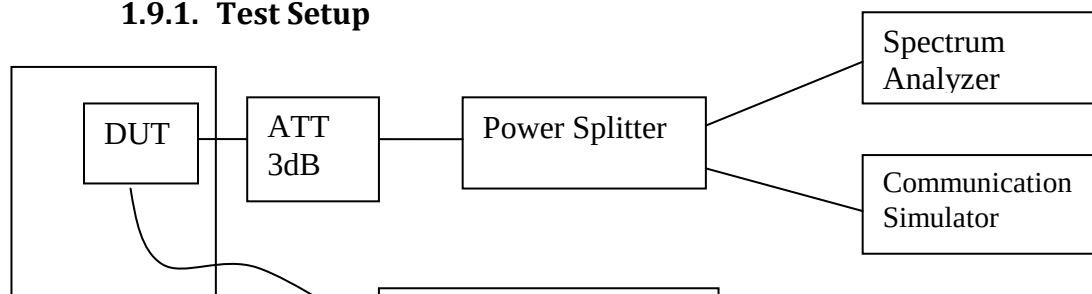
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band	Low CH 132072	1720 MHz	17.822	17.822

66/20MHz/100/0	Mid CH 132322	1745 MHz	17.822	17.862
	High CH 132572	1770 MHz	17.942	17.902



1.9. Frequency Stability

1.9.1. 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 ~ 50 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.

1.9.2. Test Limit

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

1.9.3. Frequency Stability – LTE Band 66 (1710-1780Mhz)

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 1.4 MHz			
		Low Channel		High Channel	
		1710.7MHz		1779.3MHz	
LTE Band 66		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	50	1710.700016	0.009541	1779.300024	0.013651
	40	1710.699966	-0.020052	1779.299984	-0.009222
	30	1710.700021	0.01246	1779.299988	-0.00693
	20	1710.699965	-0.020245	1779.300017	0.009511
	10	1710.700022	0.012928	1779.300026	0.014865
	0	1710.700021	0.012225	1779.29999	-0.005684
	-10	1710.700007	0.003855	1779.299983	-0.009736
	-20	1710.700018	0.010561	1779.300021	0.011738
	-30	1710.700021	0.012225	1779.300023	0.013177

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 1.4 MHz			
		Low Channel		High Channel	
		1710.7MHz		1779.3MHz	
LTE		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)

Band 66	4.35	1710.699993	-0.004281	1779.300012	0.006625
	3.7	1710.700006	0.003688	1779.300006	0.003481
	3.2	1710.700014	0.008053	1779.300021	0.012052

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 3 MHz			
		Low Channel		High Channel	
		1711.5MHz		1778.5MHz	
LTE Band 66		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	50	1711.500017	0.010189	1778.499983	-0.009829
	40	1711.500017	0.01003	1778.499984	-0.009097
	30	1711.50002	0.011626	1778.499984	-0.009041
	20	1711.500019	0.011175	1778.499984	-0.009137
	10	1711.500019	0.011325	1778.499987	-0.00736
	0	1711.50002	0.011793	1778.499983	-0.009459
	-10	1711.500009	0.005399	1778.499992	-0.004295
	-20	1711.500015	0.00901	1778.499983	-0.009459
	-30	1711.500019	0.01135	1778.499989	-0.006411

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 3 MHz			
		Low Channel		High Channel	
		1711.5MHz		1778.5MHz	
LTE Band 66		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	4.35	1711.500016	0.00947	1778.499984	-0.008751
	3.7	1711.500016	0.009604	1778.499985	-0.008309
	3.2	1711.500018	0.010239	1778.499985	-0.008671

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 5 MHz			
		Low Channel		High Channel	
		1712.5MHz		1777.5MHz	
LTE Band 66		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	50	1712.499988	-0.007201	1777.500015	0.008273

	40	1712.499984	-0.009389	1777.500017	0.009488
	30	1712.499982	-0.010408	1777.500019	0.010671
	20	1712.499985	-0.008537	1777.500018	0.010205
	10	1712.499984	-0.009381	1777.500018	0.009851
	0	1712.499984	-0.009489	1777.500019	0.010655
	-10	1712.499991	-0.005146	1777.500014	0.007943
	-20	1712.499982	-0.010358	1777.500019	0.010615
	-30	1712.499981	-0.010809	1777.500019	0.01047

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 5 MHz			
		Low Channel		High Channel	
		1712.5MHz		1777.5MHz	
LTE Band 66		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	4.35	1712.499984	-0.009314	1777.50002	0.011251
	3.7	1712.499983	-0.010099	1777.500017	0.009319
	3.2	1712.499984	-0.009088	1777.500017	0.009835

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 10 MHz			
		Low Channel		High Channel	
		1715MHz		1775MHz	
LTE Band 66		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	50	1714.999986	-0.007983	1774.999987	-0.007116
	40	1714.999981	-0.010793	1775.000014	0.00793
	30	1715.000013	0.00739	1774.999988	-0.006633
	20	1715.000012	0.007207	1774.999988	-0.006762
	10	1715.000017	0.009918	1775.000013	0.007423
	0	1714.999988	-0.006773	1774.999987	-0.007568
	-10	1714.999994	-0.003779	1774.999993	-0.003957
	-20	1714.999986	-0.008358	1775.000016	0.008873
	-30	1714.999986	-0.008324	1774.999984	-0.008736

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 10 MHz			
		Low Channel		High Channel	
		1715MHz		1775MHz	
LTE Band 66		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	4.35	1715.000013	0.007565	1775.000015	0.008261

	3.7	1715.000014	0.008366	1775.000015	0.008341
	3.2	1715.000013	0.007524	1775.000013	0.007318

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 15 MHz			
		Low Channel		High Channel	
		1717.5MHz		1772.5MHz	
LTE Band 66		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	50	1717.500017	0.00982	1772.499982	-0.010032
	40	1717.500017	0.009928	1772.499982	-0.010048
	30	1717.500016	0.009537	1772.499983	-0.00987
	20	1717.500018	0.010678	1772.499983	-0.009426
	10	1717.500018	0.010694	1772.499982	-0.009878
	0	1717.500018	0.010728	1772.499984	-0.009176
	-10	1717.500016	0.009145	1772.499987	-0.007546
	-20	1717.500017	0.01017	1772.499983	-0.009636
	-30	1717.500021	0.012002	1772.499984	-0.009079

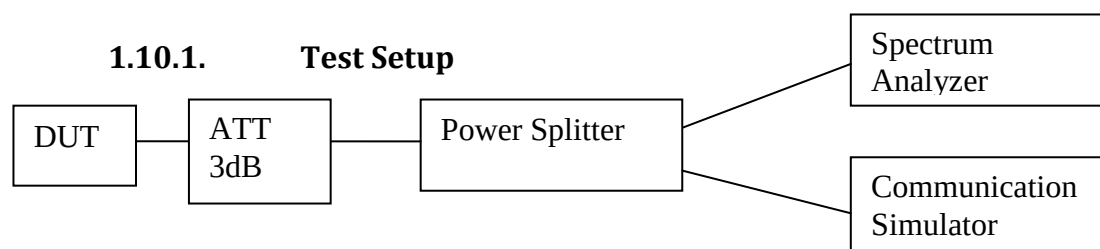
Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 15 MHz			
		Low Channel		High Channel	
		1717.5MHz		1772.5MHz	
LTE Band 66		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	4.35	1717.500014	0.008279	1772.499984	-0.009192
	3.7	1717.500014	0.008079	1772.499992	-0.004754
	3.2	1717.500018	0.010719	1772.499982	-0.009975

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 20 MHz			
		Low Channel		High Channel	
		1720MHz		1770MHz	
LTE Band 66		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	50	1719.999983	-0.009989	1770.000016	0.008906
	40	1719.999983	-0.009606	1770.000017	0.009464

	30	1719.999983	-0.009656	1770.000018	0.010337
	20	1719.999983	-0.009822	1770.000018	0.009997
	10	1719.999983	-0.009598	1770.000017	0.009618
	0	1719.999983	-0.009872	1770.000017	0.009634
	-10	1719.999984	-0.009498	1770.000018	0.010353
	-20	1719.999983	-0.010105	1770.000021	0.011638
	-30	1719.999981	-0.011286	1770.000018	0.010232

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 20 MHz			
		Low Channel		High Channel	
		1720MHz		1770MHz	
LTE Band 66		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	4.35	1719.99998	-0.011569	1770.00002	0.011185
	3.7	1719.999982	-0.010521	1770.000019	0.010709
	3.2	1719.999982	-0.010571	1770.000019	0.010612

1.10. Band Edge Conducted Spurious Emission

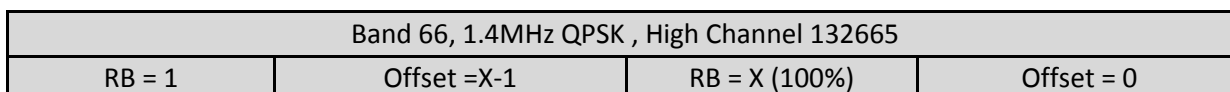
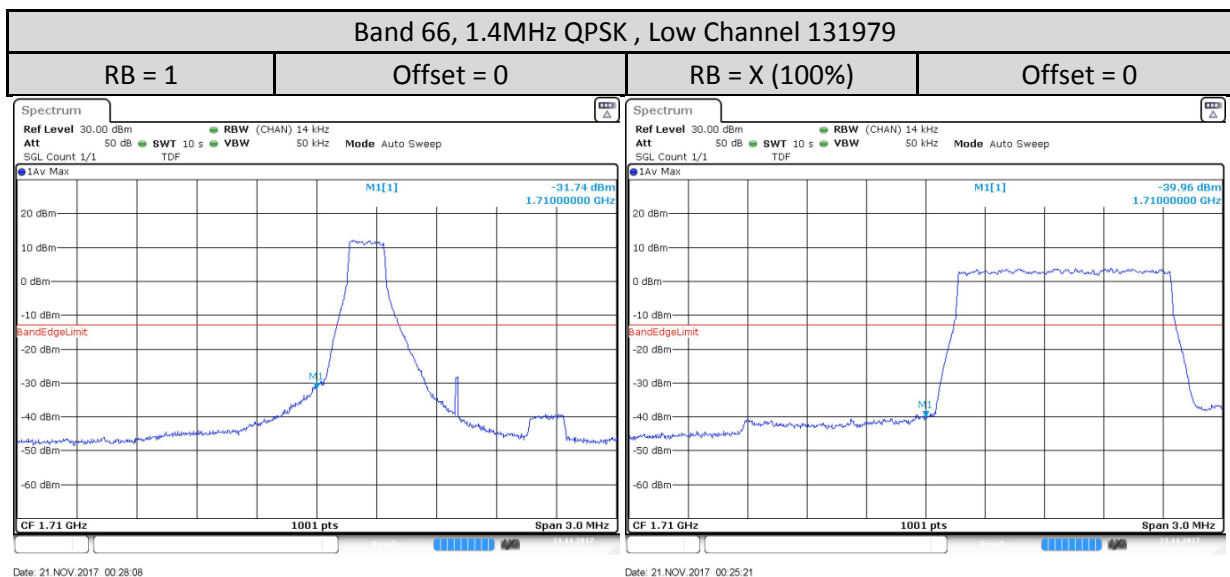


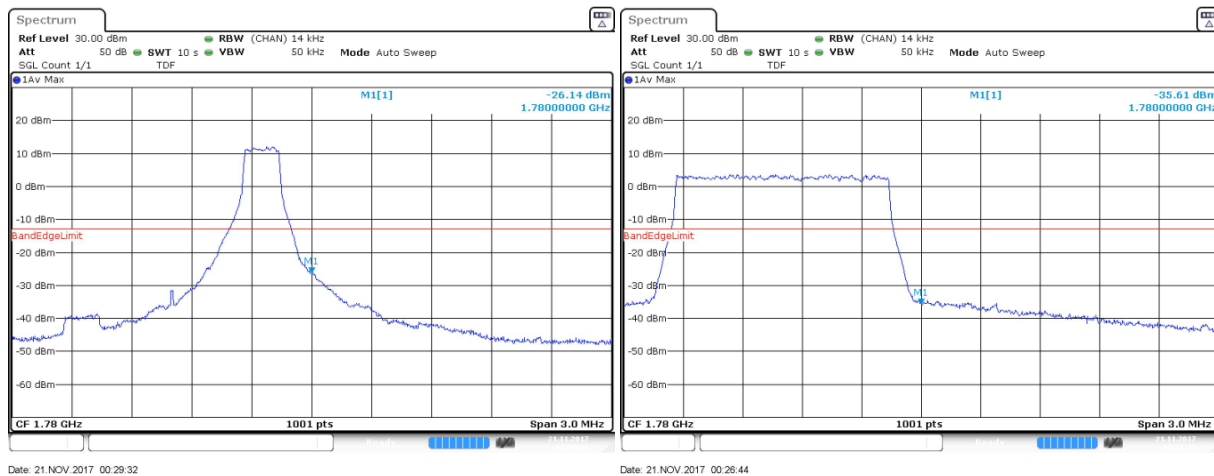
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) Set DUT to transmit maximum power through communication simulator.
- 4) The band edges of lowest and highest channels with the highest RF powers were measured.
- 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.

1.10.2. Test Limit

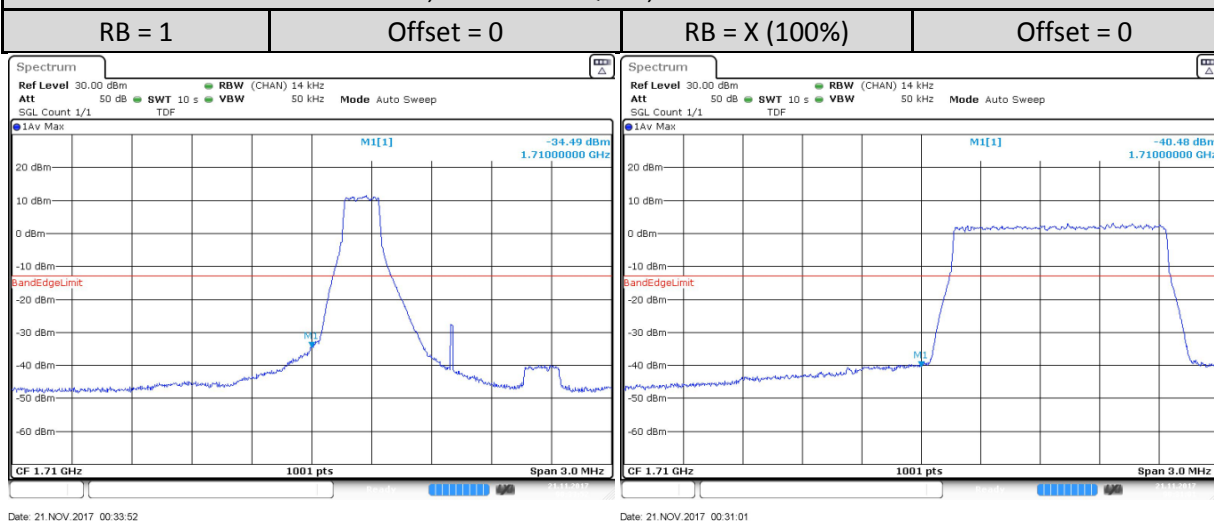
For operations in the 1710-1755 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB. In the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a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

1.10.3. Band Edge Conducted Spurious Emission – LTE Band 66 (1710-1780Mhz)

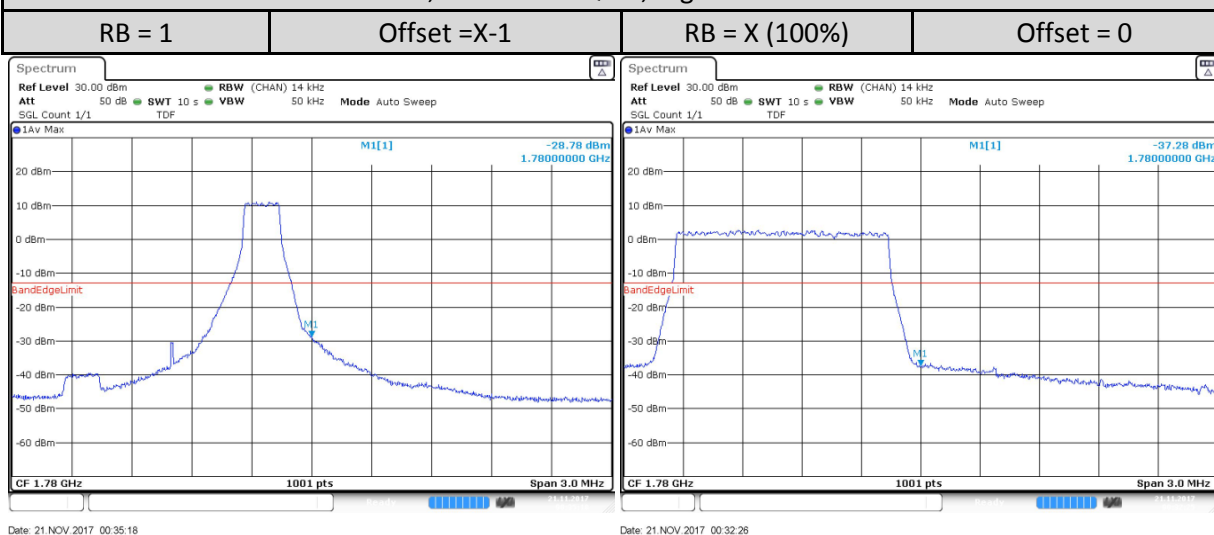




Band 66, 1.4MHz 16-QAM , Low Channel 131979



Band 66, 1.4MHz 16-QAM, High Channel 132665



Band 66, 3MHz QPSK, Low CH 131987

