

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

FCC Applicant: Motive Technologies, Inc.
55 Hawthorne St., Suite 400, San Francisco, CA 94105

FCC Manufacturer: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

ISED Applicant: Motive Technologies, Inc.
55 Hawthorne St., Suite 400, San Francisco, CA 94105

ISED Manufacturer: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Product Name: Asset Gateway

Brand Name: Motive

FCC Model No.: AG-55

ISED Model No.: AG-55B

Model Difference: N/A

Report Number: TERF2207001194ER

FCC ID 2AQM7-AG55B

IC: 24516-AG55B

Issue Date: Sep. 05, 2022

Date of Test: Aug. 03, 2022

Date of EUT Received: Jul. 21, 2022

Approved By**Jazz Huang****We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 22H & 24E & 27 C & 90S and ISED RSS-Gen, 130, 132, 133, 139.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2207001194ER	00	Original.	Sep. 05, 2022	Yami Kuo	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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Contents

1	GENERAL PRODUCT INFORMATION	4
2	SYSTEM TEST CONFIGURATION	10
3	SUMMARY OF TEST RESULTS.....	14
4	DESCRIPTION OF TEST MODES	15
5	MEASUREMENT UNCERTAINTY	26
6	MEASUREMENT EQUIPMENT USED.....	27
7	MAXIMUM OUTPUT POWER	28
8	OCCUPIED BANDWIDTH MEASUREMENT	50
9	OUT OF BAND EMISSION AT ANTENNA TERMINALS	99
10	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	186
11	FREQUENCY STABILITY MEASUREMENT	250
12	PEAK TO AVERAGE RATIO	259
13	SPOT CHECK	288

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	Asset Gateway
Brand Name:	Motive
FCC Model No.:	AG-55
ISED Model No.:	AG-55B
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	ATY-TKR-KKQ
Power Supply:	3.6Vdc from Rechargeable Li-polymer Battery
Test Software (Name/Version)	N/A(link MT8821C)

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1.2 Frequency Range

1.2.1 NB IoT

NB IoT Band	Subcarrier Spacing (kHz)	Operation Frequency (MHz)
2	3.75	1850.1 - 1909.9
	15	
4	3.75	1710.1 - 1754.9
	15	
5	3.75	824.1 - 848.9
	15	
12	3.75	699.1 - 715.9
	15	
13	3.75	777.1 - 786.9
	15	
	15	
26	3.75	824.1 - 848.9
	15	
26 Part 90	3.75	814.1 - 823.9

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1.2.2 Cat. M1

M1 Band	BW (MHz)	Operation Frequency (MHz)		M1 Band	BW (MHz)	Operation Frequency (MHz)	
2	1.4	1850.7	- 1909.3	26	1.4	824.7	- 848.3
	3	1851.5	- 1908.5		3	825.5	- 847.5
	5	1852.5	- 1907.5		5	826.5	- 846.5
	10	1855.0	- 1905.0		10	829.0	- 844.0
	15	1857.5	- 1902.5		15	831.5	- 841.5
	20	1860.0	- 1900.0	26 Part90	1.4	814.7	- 823.3
4	1.4	1710.7	- 1754.3		3	815.5	- 822.5
	3	1711.5	- 1753.5		5	816.5	- 821.5
	5	1712.5	- 1752.5		10	819.0	
	10	1715.0	- 1750.0				
	15	1717.5	- 1747.5				
	20	1720.0	- 1745.0				
5	1.4	824.7	- 848.3				
	3	825.5	- 847.5				
	5	826.5	- 846.5				
	10	829.0	- 844.0				
12	1.4	699.7	- 715.3				
	3	700.5	- 714.5				
	5	701.5	- 713.5				
	10	704.0	- 711.0				
13	5	779.5	- 784.5				
	10	782					

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Main / Aux	Note
Monopole	INPAQ	WA-F-LTE8-03-005-B	Main	Ant 1
Operating Frequency (MHz)			Ant 1 Peak Antenna Gain (dBi)	
LTE-Band 2	1850.1	~ 1909.9	5.36	
LTE-Band 4	1710.1	~ 1754.9	4.30	
LTE-Band 5	824.1	~ 848.9	-1.63	
LTE-Band 12	699.1	~ 715.9	-0.36	
LTE-Band 13	777.1	~ 786.9	0.18	
LTE-Band 26	824.1	~ 848.9	-1.63	
LTE-Band 26 Part 90	814.1	~ 823.9	-1.68	

1.4 Type of Emission & Max ERP/EIRP Power Measurement Result:

1.4.1 NB IoT

NB IoT Band	Modulation	ERP / EIRP (dBm)		(W)	99% BW (kHz)	T ype of Emission
2	BPSK	28.31	EIRP	0.678	229.00	229KG7D
2	QPSK	28.33	EIRP	0.681	222.32	222KG7D
NB IoT Band	Modulation	ERP / EIRP (dBm)		(W)	99% BW (kHz)	T ype of Emission
4	BPSK	27.12	EIRP	0.515	230.08	230KG7D
4	QPSK	27.25	EIRP	0.531	222.91	223KG7D
NB IoT Band	Modulation	ERP / EIRP (dBm)		(W)	99% BW (kHz)	T ype of Emission
5	BPSK	21.22	ERP	0.132	223.60	224KG7D
5	QPSK	21.01	ERP	0.126	221.84	222KG7D
NB IoT Band	Modulation	ERP / EIRP (dBm)		(W)	99% BW (kHz)	T ype of Emission
12	BPSK	23.32	ERP	0.215	223.32	223KG7D
12	QPSK	23.30	ERP	0.214	225.64	226KG7D

NB IoT Band	Modulation	ERP / EIRP (dBm)		(W)	99% BW (kHz)	Type of Emission
13	BPSK	23.12	ERP	0.205	224.10	224KG7D
13	QPSK	23.05	ERP	0.202	221.54	222KG7D
NB IoT Band	Modulation	ERP / EIRP (dBm)		(W)	99% BW (kHz)	Type of Emission
26	BPSK	21.48	ERP	0.141	224.12	224KG7D
26	QPSK	21.45	ERP	0.140	221.00	221KG7D
NB IoT Band	Modulation	ERP / EIRP (dBm)		(W)	99% BW (kHz)	Type of Emission
26 Part90	BPSK	21.13	ERP	0.130	276.90	277KG7D
26 Part90	QPSK	21.11	ERP	0.129	276.20	276KG7D

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1.4.2 Cat. M1

M1 Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
2	1.4	QPSK	27.98	EIRP	0.628	1.0926	1M09G7D
		16QAM	27.90	EIRP	0.617	1.1023	1M10D7W
2	3	QPSK	27.99	EIRP	0.630	1.2203	1M22G7D
		16QAM	27.73	EIRP	0.593	1.1997	1M20D7W
2	5	QPSK	27.99	EIRP	0.630	1.4435	1M44G7D
		16QAM	28.63	EIRP	0.729	1.2842	1M28D7W
2	10	QPSK	27.72	EIRP	0.592	1.9901	1M99G7D
		16QAM	28.62	EIRP	0.728	2.6042	2M60D7W
2	15	QPSK	27.99	EIRP	0.630	2.300	2M30G7D
		16QAM	28.72	EIRP	0.745	2.293	2M29D7W
2	20	QPSK	28.57	EIRP	0.719	3.325	3M33G7D
		16QAM	28.57	EIRP	0.719	2.763	2M76D7W
M1 Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
4	1.4	QPSK	26.89	EIRP	0.489	1.0986	1M10G7D
		16QAM	26.77	EIRP	0.475	1.1017	1M10D7W
4	3	QPSK	26.91	EIRP	0.491	1.2129	1M21G7D
		16QAM	26.65	EIRP	0.462	1.1868	1M19D7W
4	5	QPSK	26.98	EIRP	0.499	1.3107	1M31G7D
		16QAM	27.59	EIRP	0.574	1.2488	1M25D7W
4	10	QPSK	26.73	EIRP	0.471	2.0659	2M07G7D
		16QAM	27.44	EIRP	0.555	2.0817	2M08D7W
4	15	QPSK	26.96	EIRP	0.497	2.324	2M32G7D
		16QAM	26.92	EIRP	0.492	2.284	2M28D7W
4	20	QPSK	26.97	EIRP	0.498	2.716	2M72G7D
		16QAM	26.98	EIRP	0.499	2.357	2M36D7W
M1 Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
5	1.4	QPSK	21.15	ERP	0.130	1.0964	1M10G7D
		16QAM	20.92	ERP	0.124	1.0985	1M10D7W
5	3	QPSK	21.08	ERP	0.128	1.2042	1M20G7D
		16QAM	20.90	ERP	0.123	1.1805	1M18D7W
5	5	QPSK	21.21	ERP	0.132	1.7009	1M70G7D
		16QAM	21.74	ERP	0.149	1.2383	1M24D7W
5	10	QPSK	21.08	ERP	0.128	2.2606	2M26G7D
		16QAM	21.73	ERP	0.149	2.5460	2M55D7W

M1 Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
12	1.4	QPSK	23.03	ERP	0.201	1.0975	1M10G7D
		16QAM	22.50	ERP	0.178	1.0978	1M10D7W
12	3	QPSK	23.01	ERP	0.200	1.2173	1M22G7D
		16QAM	22.67	ERP	0.185	1.1856	1M19D7W
12	5	QPSK	23.07	ERP	0.203	1.3468	1M35G7D
		16QAM	23.45	ERP	0.221	1.2886	1M29D7W
12	10	QPSK	23.01	ERP	0.200	2.3087	2M31G7D
		16QAM	23.52	ERP	0.225	2.5362	2M54D7W
M1 Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
13	5	QPSK	23.39	ERP	0.218	1.3430	1M34G7D
		16QAM	23.90	ERP	0.245	1.2718	1M27D7W
13	10	QPSK	23.45	ERP	0.221	1.9668	1M97G7D
		16QAM	23.93	ERP	0.247	2.0518	2M05D7W
M1 Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
26	1.4	QPSK	20.94	ERP	0.124	1.0962	1M10G7D
		16QAM	20.66	ERP	0.116	1.0994	1M10D7W
26	3	QPSK	20.92	ERP	0.124	1.2490	1M25G7D
		16QAM	20.53	ERP	0.113	1.1830	1M18D7W
26	5	QPSK	21.12	ERP	0.129	1.3587	1M36G7D
		16QAM	21.46	ERP	0.140	1.2934	1M29D7W
26	10	QPSK	20.86	ERP	0.122	2.5778	2M58G7D
		16QAM	21.55	ERP	0.143	2.5495	2M55D7W
26	15	QPSK	20.95	ERP	0.124	2.355	2M36G7D
		16QAM	21.50	ERP	0.141	2.377	2M38D7W
M1 Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
26 Part 90	1.4	QPSK	20.80	ERP	0.120	1.0974	1M10G7D
		16QAM	20.61	ERP	0.115	1.0980	1M10D7W
26 Part 90	3	QPSK	20.79	ERP	0.120	1.2675	1M27G7D
		16QAM	20.10	ERP	0.102	1.3861	1M39D7W
26 Part 90	5	QPSK	20.91	ERP	0.123	1.3541	1M35G7D
		16QAM	21.37	ERP	0.137	1.3285	1M33D7W
26 Part 90	10	QPSK	20.77	ERP	0.119	2.5316	2M53G7D
		16QAM	21.35	ERP	0.136	2.4742	2M47D7W

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1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90.

ISED RSS-130 Issue 2 Feb. 2019,

ISED RSS-132 Issue 3 Jan. 2013

ISED RSS-133 Issue 6, Amendment 1 Jan. 18, 2018, ISED RSS-139 Issue 3 July 16, 2015

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

TS 151 010-1 is used to set, and measure the output power.

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

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2.5 Final Amplifier Voltage and Current Information:

2.5.1 NB IoT

Band 2

Test mode	DC voltage (V)	DC current (mA)
Band 2_3.75K	3.6	167.000
Band 2_15K	3.6	154.000

Band 4

Test mode	DC voltage (V)	DC current (mA)
Band 4_3.75K	3.6	174.000
Band 4_15K	3.6	162.000

Band 5

Test mode	DC voltage (V)	DC current (mA)
Band 5_3.75K	3.6	163.000
Band 5_15K	3.6	194.000

Band 12

Test mode	DC voltage (V)	DC current (mA)
Band 12_3.75K	3.6	192.000
Band 12_15K	3.6	207.000

Band 13

Test mode	DC voltage (V)	DC current (mA)
Band 13_3.75K	3.6	173.000
Band 13_15K	3.6	184.000

Band 26

Test mode	DC voltage (V)	DC current (mA)
Band 26_3.75K	3.6	183.000
Band 26_15K	3.6	192.000

Band 26_Part90

Test mode	DC voltage (V)	DC current (mA)
Band 26_Part90_3.75K	3.6	194.000
Band 26_Part90_15K	3.6	186.000

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2.5.2 Cat M1

M1 Band 2

Test mode	DC voltage (V)	DC current (mA)
M1 Band 2_1.4M QPSK	3.6	168.000
M1 Band 2_1.4M 16QAM	3.6	156.000
M1 Band 2_3M QPSK	3.6	165.000
M1 Band 2_3M 16QAM	3.6	201.000
M1 Band 2_5M QPSK	3.6	195.000
M1 Band 2_5M 16QAM	3.6	193.000
M1 Band 2_10M QPSK	3.6	203.000
M1 Band 2_10M 16QAM	3.6	184.000
M1 Band 2_15M QPSK	3.6	176.000
M1 Band 2_15M 16QAM	3.6	186.000
M1 Band 2_20M QPSK	3.6	169.000
M1 Band 2_20M 16QAM	3.6	187.000

M1 Band 4

Test mode	DC voltage (V)	DC current (mA)
M1 Band 4_1.4M QPSK	3.6	175.000
M1 Band 4_1.4M 16QAM	3.6	183.000
M1 Band 4_3M QPSK	3.6	162.000
M1 Band 4_3M 16QAM	3.6	195.000
M1 Band 4_5M QPSK	3.6	183.000
M1 Band 4_5M 16QAM	3.6	187.000
M1 Band 4_10M QPSK	3.6	179.000
M1 Band 4_10M 16QAM	3.6	166.000
M1 Band 4_15M QPSK	3.6	182.000
M1 Band 4_15M 16QAM	3.6	194.000
M1 Band 4_20M QPSK	3.6	198.000
M1 Band 4_20M 16QAM	3.6	178.000

M1 Band 5

Test mode	DC voltage (V)	DC current (mA)
M1 Band 5_1.4M QPSK	3.6	212.000
M1 Band 5_1.4M 16QAM	3.6	198.000
M1 Band 5_3M QPSK	3.6	189.000
M1 Band 5_3M 16QAM	3.6	185.000
M1 Band 5_5M QPSK	3.6	219.000
M1 Band 5_5M 16QAM	3.6	192.000
M1 Band 5_10M QPSK	3.6	185.000
M1 Band 5_10M 16QAM	3.6	174.000

M1 Band 12

Test mode	DC voltage (V)	DC current (mA)
M1 Band 5_1.4M QPSK	3.6	199.000
M1 Band 5_1.4M 16QAM	3.6	168.000
M1 Band 5_3M QPSK	3.6	185.000
M1 Band 5_3M 16QAM	3.6	184.000
M1 Band 5_5M QPSK	3.6	193.000
M1 Band 5_5M 16QAM	3.6	178.000
M1 Band 5_10M QPSK	3.6	162.000
M1 Band 5_10M 16QAM	3.6	181.000
M1 Band 5_10M 64QAM	3.6	197.000

M1 Band 13

Test mode	DC voltage (V)	DC current (mA)
M1 Band 13_5M QPSK	3.6	186.000
M1 Band 13_5M 16QAM	3.6	189.000
M1 Band 13_10M QPSK	3.6	175.000
M1 Band 13_10M 16QAM	3.6	192.000

M1 Band 26

Test mode	DC voltage (V)	DC current (mA)
M1 Band 26_1.4M QPSK	3.6	185.000
M1 Band 26_1.4M 16QAM	3.6	196.000
M1 Band 26_3M QPSK	3.6	168.000
M1 Band 26_3M 16QAM	3.6	178.000
M1 Band 26_5M QPSK	3.6	182.000
M1 Band 26_5M 16QAM	3.6	194.000
M1 Band 26_10M QPSK	3.6	173.000
M1 Band 26_10M 16QAM	3.6	169.000
M1 Band 26_15M QPSK	3.6	171.000
M1 Band 26_15M 16QAM	3.6	193.000

M1 Band 26 for Part 90S

Test Mode	DC voltage (V)	DC current (mA)
M1 Band 26_1.4M QPSK	3.6	195.000
M1 Band 26_1.4M 16QAM	3.6	192.000
M1 Band 26_3M QPSK	3.6	186.000
M1 Band 26_3M 16QAM	3.6	187.000
M1 Band 26_5M QPSK	3.6	177.000
M1 Band 26_5M 16QAM	3.6	196.000
M1 Band 26_10M QPSK	3.6	183.000
M1 Band 26_10M 16QAM	3.6	181.000

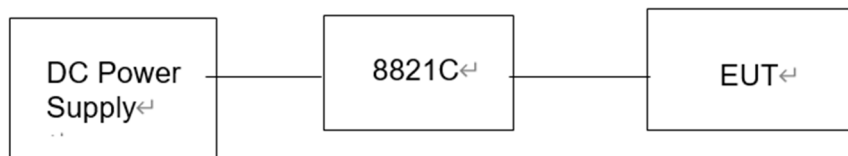
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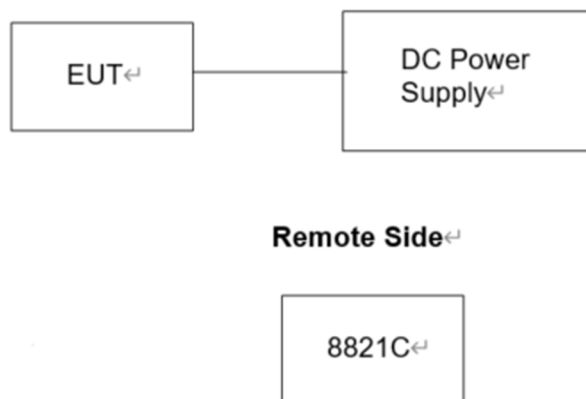
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2.6 Test Configuration

2.6.1 Conducted Emission at the Antenna Port



2.6.2 Radiated Emission



Note: Radio Communication Analyzer is placed in remote side for radiated test.

2.6.3 Equipment used for test

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyzer	Anritsu	MT8821C	6261786084	Shielded	Un-shielded
2.	DC Power Supply	Agilent	E3640A	MY52410006	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result	Note
§2.1046(a)	RSS-GEN §6.12	RF Power Output	Compliant	S
§22.913(a)(5) §24.232(c) §27.50(c)(10) §27.50(d)(4) §27.50(b)(10) §90.635(b)	RSS-130 §4.6 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.5	ERP/ EIRP measurement	Compliant	
§2.1049(h)	RSS-GEN §6.7	99% & 26dB Occupied Bandwidth	Compliant	
§2.1051 §22.917(a)(b) §24.238(a) §27.53(g) §27.53(c) §27.53(h) §90.691(a)(1)	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant	
§2.1053 §22.917(a) §24.238(a) §27.53(f) §27.53(g) §27.53(h) §90.691(a)(2)	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6	Field Strength of Spurious Radiation	Compliant	S
§24.232(d) §27.50((B)	RSS-130 §4.6.1 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.4	Peak to Average Ratio	Compliant	
§2.1055(a)(1) §22.355 §24.235 §27.54	RSS-130 §4.5 RSS-132 §5.3 RSS-133 §6.3 RSS-139 §6.5	Frequency Stability	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report ER/2019/80104.
3. The test data in the test report number ER/2019/80104 of the authorized FCC ID: 2AQM7-AG55 and certified IC: 24516-AG55 are fully referenced in this report.

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Configuration

1. The EUT has been tested under operating condition.
2. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

4.2 NB IoT

NB IoT Modes	Radiated Emission		
	E1	E2	H
B2	-	V	-
B4	-	V	-
B5	-	V	-
B12	-	V	-
B13	-	V	-
B17	-	V	-
B25	-	V	-
B26	-	V	-
B26 Part 90	-	V	-
B30	-	V	-
B38	-	V	-
B41	-	V	-
B66	-	V	-
B85	-	V	-

NB IoT Modes	Test Items	Subcarrier		Modulation		Test		
		3.75	15	BPSK	QPSK	L	M	H
B2	EIRP	V	V	V	V	V	V	V
	Occupied Bandwidth	V	V	V	V	V	V	V
	Band Edge Compliance	V	V	V	V	V	-	V
	Peak-To-Average Ratio	V	V	V	V	V	V	V
	Frequency Stability	V	V	V	V	-	V	-
	Conducted Spurious Emission	V	V	V	V	V	V	V
	Radiated Spurious Emission	V	-	V	-	V	V	V

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NB IoT Modes	Test Items	Subcarrier		Modulation		Test		
		3.75	15	BPSK	QPSK	L	M	H
B4	EIRP	V	V	V	V	V	V	V
	Occupied Bandwidth	V	V	V	V	V	V	V
	Band Edge Compliance	V	V	V	V	V	-	V
	Peak-To-Average Ratio	V	V	V	V	V	V	V
	Frequency Stability	V	V	V	V	-	V	-
	Conducted Spurious Emission	V	V	V	V	V	V	V
	Radiated Spurious Emission	V	-	V	-	V	V	V
NB IoT Modes	Test Items	Subcarrier		Modulation		Test		
		3.75	15	BPSK	QPSK	L	M	H
B5	EIRP	V	V	V	V	V	V	V
	Occupied Bandwidth	V	V	V	V	V	V	V
	Band Edge Compliance	V	V	V	V	V	-	V
	Peak-To-Average Ratio	V	V	V	V	V	V	V
	Frequency Stability	V	V	V	V	-	V	-
	Conducted Spurious Emission	V	V	V	V	V	V	V
	Radiated Spurious Emission	V	-	V	-	V	V	V
NB IoT Modes	Test Items	Subcarrier		Modulation		Test		
		3.75	15	BPSK	QPSK	L	M	H
B12	EIRP	V	V	V	V	V	V	V
	Occupied Bandwidth	V	V	V	V	V	V	V
	Band Edge Compliance	V	V	V	V	V	-	V
	Peak-To-Average Ratio	V	V	V	V	V	V	V
	Frequency Stability	V	V	V	V	-	V	-
	Conducted Spurious Emission	V	V	V	V	V	V	V
	Radiated Spurious Emission	V	-	V	-	V	V	V
NB IoT Modes	Test Items	Subcarrier		Modulation		Test		
		3.75	15	BPSK	QPSK	L	M	H
B13	EIRP	V	V	V	V	V	V	V
	Occupied Bandwidth	V	V	V	V	V	V	V
	Band Edge Compliance	V	V	V	V	V	-	V
	Peak-To-Average Ratio	V	V	V	V	V	V	V
	Frequency Stability	V	V	V	V	-	V	-
	Conducted Spurious Emission	V	V	V	V	V	V	V
	Radiated Spurious Emission	V	-	V	-	V	V	V

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NB IoT Modes	Test Items	Subcarrier		Modulation		Test		
		3.75	15	BPSK	QPSK	L	M	H
B14	EIRP	V	V	V	V	V	V	V
	Occupied Bandwidth	V	V	V	V	V	V	V
	Band Edge Compliance	V	V	V	V	V	-	V
	Peak-To-Average Ratio	V	V	V	V	V	V	V
	Frequency Stability	V	V	V	V	-	V	-
	Conducted Spurious Emission	V	V	V	V	V	V	V
	Radiated Spurious Emission	V	-	V	-	V	V	V
NB IoT Modes	Test Items	Subcarrier		Modulation		Test		
		3.75	15	BPSK	QPSK	L	M	H
B17	EIRP	V	V	V	V	V	V	V
	Occupied Bandwidth	V	V	V	V	V	V	V
	Band Edge Compliance	V	V	V	V	V	-	V
	Peak-To-Average Ratio	V	V	V	V	V	V	V
	Frequency Stability	V	V	V	V	-	V	-
	Conducted Spurious Emission	V	V	V	V	V	V	V
	Radiated Spurious Emission	V	-	V	-	V	V	V
NB IoT Modes	Test Items	Subcarrier		Modulation		Test		
		3.75	15	BPSK	QPSK	L	M	H
B25	EIRP	V	V	V	V	V	V	V
	Occupied Bandwidth	V	V	V	V	V	V	V
	Band Edge Compliance	V	V	V	V	V	-	V
	Peak-To-Average Ratio	V	V	V	V	V	V	V
	Frequency Stability	V	V	V	V	-	V	-
	Conducted Spurious Emission	V	V	V	V	V	V	V
	Radiated Spurious Emission	V	-	V	-	V	V	V
NB IoT Modes	Test Items	Subcarrier		Modulation		Test		
		3.75	15	BPSK	QPSK	L	M	H
B26	EIRP	V	V	V	V	V	V	V
	Occupied Bandwidth	V	V	V	V	V	V	V
	Band Edge Compliance	V	V	V	V	V	-	V
	Peak-To-Average Ratio	V	V	V	V	V	V	V
	Frequency Stability	V	V	V	V	-	V	-
	Conducted Spurious Emission	V	V	V	V	V	V	V
	Radiated Spurious Emission	V	-	V	-	V	V	V

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NB IoT Modes	Test Items	Subcarrier		Modulation		Test		
		3.75	15	BPSK	QPSK	L	M	H
B26 Part 90	EIRP	V	V	V	V	V	V	V
	Occupied Bandwidth	V	V	V	V	V	V	V
	Band Edge Compliance	V	V	V	V	V	-	V
	Peak-To-Average Ratio	V	V	V	V	V	V	V
	Frequency Stability	V	V	V	V	-	V	-
	Conducted Spurious Emission	V	V	V	V	V	V	V
	Radiated Spurious Emission	V	-	V	-	V	V	V

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4.3 Cat M1

M1 Band 2

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
FREQUENCY STA-BILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	16QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
CONDCUDED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	1 RB, 0 RB Offest

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M1 Band 4

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
FREQUENCY STABILITY	20000 to 20350	20175	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	16QAM	Full RB
BAND EDGE	19957 to 19393	19957, 19393	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK,	1 RB/ 0,4 RB Offest Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
CONDCUDED EMISSION	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK,	1 RB, 0 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK,	1 RB, 0 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK,	1 RB, 0 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 0 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK,	1 RB, 0 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	19975 to 20375	19975, 20175, 20375	15MHz	16QAM	1 RB, 5 RB Offest

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M1 Band 5

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	16QAM	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
CONDCUDED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS- SION	20425 to 20625	20425, 20525, 20625	5MHz	16QAM	1 RB, 0 RB Offest

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M1 Band 12

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAMM	1 RB/ 0,5 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	16QAM	Full RB
BAND EDGE	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
CONDUCTED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23060 to 23130	23060, 23095, 23130	10MHz	16QAM	1 RB, 5 RB Offest

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M1 Band 13

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
FREQUENCY STABILITY	23230	23230	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB
	23230	23230	10MHz	16QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	23230	23230	10MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
CONDCUDED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23230	23230	10MHz	16QAM	1 RB/ 0 RB Offest

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M1 Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
FREQUENCY STABIL- ITY	26865 to 26965	26915	15MHz	QPSK,	Full RB
OCCUPIED BAND- WIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM,	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM,	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM,	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM,	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RA- TIO	26797 to 27033	26797, 26915, 27033	1.4MHz	16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	16QAM	Full RB
BAND EDGE	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB/ 0,74 RB Offest
CONDCUETED EMIS- SION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB, 0 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB, 0 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB, 0 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26840 to 26990	26840, 26915, 26990	10MHz	16QAM	1 RB, 0 RB Offest

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M1 Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26740	26740	10MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
FREQUENCY STABIL- ITY	26697 to 26783	26740	1.4MHz	QPSK,	Full RB
OCCUPIED BAND- WIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RA- TIO	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	16QAM	Full RB
	26740	26740	10MHz	16QAM	Full RB
EMISSION MASK	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
	26740	26740	10MHz	QPSK,	1 RB/ 0,5 RB Offest Full RB
CONDCUETED EMIS- SION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 0 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	26715 to 26765	26715, 26740, 26765	5MHz	16QAM	1 RB, 5 RB Offest

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1 dB
ERP/ EIRP measurement	+/- 3 dB
	+/- 3 dB
Emission Bandwidth	+/- 1.53 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.68 dB
Peak to Average Ratio	+/- 1 dB
Frequency Stability vs. Temperature	+/- 1.53 Hz
Frequency Stability vs. Voltage	+/- 1.53 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 2.57 dB	9kHz~30MHz
	+/- 4.85 dB	30MHz - 1000MHz
	+/- 4.45 dB	1GHz - 18GHz
	+/- 4.24 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 2.57 dB	9kHz~30MHz
	+/- 4.37 dB	30MHz - 1000MHz
	+/- 4.45 dB	1GHz - 18GHz
	+/- 4.24 dB	18GHz - 40GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyser	Anritsu	MT8821C	6261786084	01/09/2019	01/08/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/04/2018	12/03/2019
Attenuator	Mini-Circuit	BW-S10W2+	4	01/02/2019	01/01/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2019	01/01/2020
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2019	01/01/2020

6.2 Radiated Measurement

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	01/04/2019	01/03/2020
Horn Antenna	Schwarzbeck	BBHA9120D	603	04/24/2019	04/23/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/27/2018	12/26/2019
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/24/2018	12/23/2019
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/10/2019	01/09/2020
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2019	01/01/2020
Pre-Amplifier	EMC Instruments	EMC051825	980152	01/02/2019	01/01/2020
Pre-Amplifier	HP	8447D	2944A09469	01/02/2019	01/01/2020
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2019	01/01/2020
Filter 1700-2000	Micro-Tronics	EWT	M3	01/02/2019	01/01/2020
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2019	01/01/2020
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2019	01/01/2020
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2019	01/02/2020
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2019	01/02/2020
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	01/02/2019	01/02/2020

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7 MAXIMUM OUTPUT POWER

7.1 Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

7.2 FCC ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50 (b)

(9) Control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 30 watts ERP.

(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

FCC 27.50(c)

(9) Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

(7) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band are limited to 2 watts EIRP.

FCC 90.635(b)

Mobile station is limited to 100W ERP

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RSS-130 §4.6

The e.r.p. shall not exceed 3 watts for mobile equipment, fixed subscriber equipment and portable equipment operating in the Band 617-652 and 663-698MHz.

RSS-132 §5.4

The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment in operating in the Bands 824-849 and 869-894MHz shall not exceed 11.5 watts.

RSS-133 §6.4

The equivalent isotropically radiated power (e.i.r.p.) for transmitters shall not exceed the limits given in SRSP-510.

According to section 5.1.2 of SRSP-510, Mobile stations and hand-held portables are limited to 2 watts maximum e.i.r.p. The equipment shall employ means to limit the power to the minimum necessary for successful communication.

RSS-139 §6.5

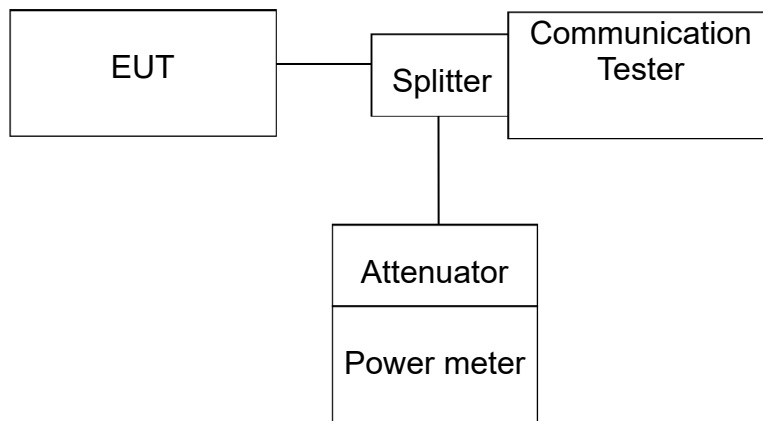
The equivalent isotropically radiated power (e.i.r.p.) for mobile and portable transmitters in the Bands 1710-1780MHz shall not exceed one watt.

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7.3 Test Set-up



Note: Measurement setup for testing on Antenna connector

7.4 Output Power Measurement Applicable Guidance

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results. Wall bands conducted average power is obtained from the simulator telecommunication test set.

7.5 Determining ERP and/or EIRP from conducted RF output power measurements

$$ERP/EIRP = P_{Meas} + GT - LC$$

Where:

ERP/EIRP	= effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);
P_{Meas}	= measured transmitter output power or PSD, in dBm or dBW;
GT	= gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)
LC	= signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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7.6 Measurement Result

7.6.1 NB IoT

Gain: 5.36

LTE NB-IoT Band 2						
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Measure Result	
					Power(dBm)	EIRP(dBm)
18601	1850.1	BPSK	3.75	1@0	22.72	28.08
				1@47	22.68	28.04
		QPSK	15	1@11	22.95	28.31
				1@0	22.97	28.33
				1@11	22.95	28.31
				12@0	21.27	26.63
18900	1880	BPSK	3.75	1@0	22.77	28.13
				1@47	22.66	28.02
		QPSK	15	1@11	22.94	28.3
				1@0	22.88	28.24
				1@11	22.93	28.29
				12@0	21.3	26.66
19199	1909.9	BPSK	3.75	1@0	22.66	28.02
				1@47	22.64	28
		QPSK	15	1@11	22.59	27.95
				1@0	22.6	27.96
				1@11	22.62	27.98
				12@0	21.04	26.4

Gain: 4.3

LTE NB-IoT Band 4						
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Measure Result	
					Power(dBm)	EIRP(dBm)
19951	1710.1	BPSK	3.75	1@0	22.49	26.79
				1@47	22.59	26.89
		QPSK	15	1@11	22.82	27.12
				1@0	22.86	27.16
				1@11	22.95	27.25
				12@0	21.2	25.5
20175	1732.5	BPSK	3.75	1@0	22.53	26.83
				1@47	22.42	26.72
		QPSK	15	1@11	22.52	26.82
				1@0	22.59	26.89
				1@11	22.54	26.84
				12@0	21.03	25.33
20399	1754.9	BPSK	3.75	1@0	22.41	26.71
				1@47	22.38	26.68
		QPSK	15	1@11	22.71	27.01
				1@0	22.66	26.96
				1@11	22.67	26.97
				12@0	20.94	25.24

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Gain: -1.63

LTE NB-IoT Band 5						
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Measure Result	
					Power(dBm)	EIRP(dBm)
20401	824.1	BPSK	3.75	1@0	22.55	20.92
				1@47	22.43	20.8
		QPSK	15	1@11	22.38	20.75
				1@0	22.39	20.76
				1@11	22.46	20.83
				12@0	20.88	19.25
20525	836.5	BPSK	3.75	1@0	22.55	20.92
				1@47	22.57	20.94
		QPSK	15	1@11	22.66	21.03
				1@0	22.61	20.98
				1@11	22.54	20.91
				12@0	21.06	19.43
20649	848.9	BPSK	3.75	1@0	22.51	20.88
				1@47	22.61	20.98
		QPSK	15	1@11	22.85	21.22
				1@0	22.64	21.01
				1@11	22.63	21
				12@0	21.03	19.4

Gain: -0.36

LTE NB-IoT Band 12						
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Measure Result	
					Power(dBm)	EIRP(dBm)
23011	699.1	BPSK	3.75	1@0	23.12	22.76
				1@47	23.19	22.83
		QPSK	15	1@11	23.68	23.32
				1@0	23.56	23.2
				1@11	23.66	23.3
				12@0	21.88	21.52
23095	707.5	BPSK	3.75	1@0	23.07	22.71
				1@47	23.19	22.83
		QPSK	15	1@11	23.38	23.02
				1@0	23.44	23.08
				1@11	23.51	23.15
				12@0	21.78	21.42
23179	715.9	BPSK	3.75	1@0	23.09	22.73
				1@47	23.33	22.97
		QPSK	15	1@11	23.26	22.9
				1@0	23.31	22.95
				1@11	23.28	22.92
				12@0	21.55	21.19

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Gain: 0.18

LTE NB-IoT Band 13						
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Measure Result	
					Power(dBm)	EIRP(dBm)
23181	777.1	BPSK	3.75	1@0	22.94	23.12
				1@47	22.87	23.05
		QPSK	15	1@11	22.83	23.01
				1@0	22.87	23.05
				1@11	22.85	23.03
				12@0	21.13	21.31
23230	782	BPSK	3.75	1@0	22.78	22.96
				1@47	22.71	22.89
		QPSK	15	1@11	22.76	22.94
				1@0	22.79	22.97
				1@11	22.78	22.96
				12@0	21.05	21.23
23279	786.9	BPSK	3.75	1@0	22.59	22.77
				1@47	22.61	22.79
		QPSK	15	1@11	22.62	22.8
				1@0	22.62	22.8
				1@11	22.61	22.79
				12@0	20.88	21.06

Gain: -1.63

LTE NB-IoT Band 26						
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Measure Result	
					Power(dBm)	EIRP(dBm)
26791	824.1	BPSK	3.75	1@0	22.41	20.78
				1@47	22.47	20.84
		QPSK	15	1@11	22.78	21.15
				1@0	22.79	21.16
				1@11	22.81	21.18
				12@0	20.95	19.32
26915	836.5	BPSK	3.75	1@0	22.52	20.89
				1@47	22.58	20.95
		QPSK	15	1@11	22.86	21.23
				1@0	22.84	21.21
				1@11	22.88	21.25
				12@0	21.09	19.46
27039	848.9	BPSK	3.75	1@0	22.67	21.04
				1@47	22.59	20.96
		QPSK	15	1@11	23.11	21.48
				1@0	23.07	21.44
				1@11	23.08	21.45
				12@0	21.23	19.6

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7.6.2 Cat M1

Antenna gain (dBi)		5.36								
M1 Band 2_Uplink frequency band : 1850 to 1910 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	0	22.12	27.48	33	-5.52
				1	5	0	22.34	27.70	33	-5.3
				6	0	0	20.45	25.81	33	-7.19
	18900	1880	QPSK	1	0	0	22.53	27.89	33	-5.11
				1	5	0	22.62	27.98	33	-5.02
				6	0	0	20.48	25.84	33	-7.16
	19193	1909.3	QPSK	1	0	0	22.24	27.60	33	-5.4
				1	5	0	22.32	27.68	33	-5.32
				6	0	0	20.32	25.68	33	-7.32
	18607	1850.7	16QAM	1	0	0	22.31	27.67	33	-5.33
				1	5	0	22.54	27.90	33	-5.1
				6	0	0	20.59	25.95	33	-7.05
	18900	1880	16QAM	1	0	0	22.37	27.73	33	-5.27
				1	5	0	22.42	27.78	33	-5.22
				6	0	0	20.61	25.97	33	-7.03
	19193	1909.3	16QAM	1	0	0	22.32	27.68	33	-5.32
				1	5	0	22.48	27.84	33	-5.16
				6	0	0	20.46	25.82	33	-7.18

Antenna gain (dBi)		5.36								
M1 Band 2_Uplink frequency band : 1850 to 1910 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	0	22.47	27.83	33	-5.17
				1	5	0	22.51	27.87	33	-5.13
				6	0	0	20.55	25.91	33	-7.09
	18900	1880	QPSK	1	0	0	22.52	27.88	33	-5.12
				1	5	0	22.63	27.99	33	-5.01
				6	0	0	20.64	26.00	33	-7
	19185	1908.5	QPSK	1	0	1	22.46	27.82	33	-5.18
				1	5	1	22.58	27.94	33	-5.06
				6	0	1	20.49	25.85	33	-7.15
	18615	1851.5	16QAM	1	0	0	21.78	27.14	33	-5.86
				1	5	0	21.86	27.22	33	-5.78
				6	0	0	20.64	26.00	33	-7
	18900	1880	16QAM	1	0	0	22.07	27.43	33	-5.57
				1	5	0	22.13	27.49	33	-5.51
				6	0	0	20.65	26.01	33	-6.99
	19185	1908.5	16QAM	1	0	1	22.24	27.60	33	-5.4
				1	5	1	22.37	27.73	33	-5.27
				6	0	1	20.55	25.91	33	-7.09

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Antenna gain (dBi)	5.36									
M1 Band 2 Uplink frequency band : 1850 to 1910 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	0	22.43	27.79	33	-5.21
				1	5	0	22.52	27.88	33	-5.12
				6	0	0	21.49	26.85	33	-6.15
	18900	1880	QPSK	1	0	0	22.55	27.91	33	-5.09
				1	5	0	22.63	27.99	33	-5.01
				6	0	0	21.46	26.82	33	-6.18
	19175	1907.5	QPSK	1	0	3	22.59	27.95	33	-5.05
				1	5	3	22.62	27.98	33	-5.02
				6	0	3	21.52	26.88	33	-6.12
	18625	1852.5	16QAM	1	0	0	23.21	28.57	33	-4.43
				1	5	0	23.27	28.63	33	-4.37
				6	0	0	20.70	26.06	33	-6.94
	18900	1880	16QAM	1	0	0	23.13	28.49	33	-4.51
				1	5	0	23.22	28.58	33	-4.42
				6	0	0	20.78	26.14	33	-6.86
	19175	1907.5	16QAM	1	0	3	23.19	28.55	33	-4.45
				1	5	3	23.24	28.60	33	-4.4
				6	0	3	20.66	26.02	33	-6.98

Antenna gain (dBi)	5.36									
M1 Band 2 Uplink frequency band : 1850 to 1910 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	0	22.22	27.58	33	-5.42
				1	5	0	22.35	27.71	33	-5.29
				6	0	0	21.54	26.90	33	-6.1
	18900	1880	QPSK	1	0	0	22.21	27.57	33	-5.43
				1	5	0	22.36	27.72	33	-5.28
				6	0	0	21.63	26.99	33	-6.01
	19150	1905	QPSK	1	0	7	22.28	27.64	33	-5.36
				1	5	7	22.19	27.55	33	-5.45
				6	0	7	21.45	26.81	33	-6.19
	18650	1855	16QAM	1	0	0	23.11	28.47	33	-4.53
				1	5	0	23.13	28.49	33	-4.51
				6	0	0	20.73	26.09	33	-6.91
	18900	1880	16QAM	1	0	0	23.23	28.59	33	-4.41
				1	5	0	23.26	28.62	33	-4.38
				6	0	0	20.64	26.00	33	-7
	19150	1905	16QAM	1	0	7	23.11	28.47	33	-4.53
				1	5	7	23.22	28.58	33	-4.42
				6	0	7	20.68	26.04	33	-6.96

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Antenna gain (dBi)	5.36									
M1 Band 2 Uplink frequency band : 1850 to 1910 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	0	22.39	27.75	33	-5.25
				1	5	0	22.43	27.79	33	-5.21
				6	0	0	22.55	27.91	33	-5.09
	18900	1880	QPSK	1	0	0	22.36	27.72	33	-5.28
				1	5	0	22.63	27.99	33	-5.01
				6	0	0	22.51	27.87	33	-5.13
	19125	1902.5	QPSK	1	0	11	22.37	27.73	33	-5.27
				1	5	11	22.35	27.71	33	-5.29
				6	0	11	22.58	27.94	33	-5.06
	18675	1857.5	16QAM	1	0	0	23.05	28.41	33	-4.59
				1	5	0	23.14	28.50	33	-4.5
				6	0	0	22.77	28.13	33	-4.87
	18900	1880	16QAM	1	0	0	23.16	28.52	33	-4.48
				1	5	0	23.36	28.72	33	-4.28
				6	0	0	22.71	28.07	33	-4.93
	19125	1902.5	16QAM	1	0	11	23.19	28.55	33	-4.45
				1	5	11	23.09	28.45	33	-4.55
				6	0	11	22.67	28.03	33	-4.97

Antenna gain (dBi)	5.36									
M1 Band 2 Uplink frequency band : 1850 to 1910 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	0	23.21	28.57	33	-4.43
				1	5	0	22.41	27.77	33	-5.23
				6	0	0	22.56	27.92	33	-5.08
	18900	1880	QPSK	1	0	0	22.34	27.70	33	-5.3
				1	5	0	22.41	27.77	33	-5.23
				6	0	0	22.57	27.93	33	-5.07
	19100	1900	QPSK	1	0	15	22.36	27.72	33	-5.28
				1	5	15	22.41	27.77	33	-5.23
				6	0	15	22.58	27.94	33	-5.06
	18700	1860	16QAM	1	0	0	23.08	28.44	33	-4.56
				1	5	0	23.15	28.51	33	-4.49
				6	0	0	22.79	28.15	33	-4.85
	18900	1880	16QAM	1	0	0	23.18	28.54	33	-4.46
				1	5	0	23.21	28.57	33	-4.43
				6	0	0	22.80	28.16	33	-4.84
	19100	1900	16QAM	1	0	15	23.13	28.49	33	-4.51
				1	5	15	23.12	28.48	33	-4.52
				6	0	15	22.57	27.93	33	-5.07

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Antenna gain (dBi)		4.3								
M1 Band 4_Uplink frequency band : 1710 to 1755 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	0	22.08	26.38	30	-3.62
				1	5	0	22.29	26.59	30	-3.41
				6	0	0	20.41	24.71	30	-5.29
	20175	1732.5	QPSK	1	0	0	22.51	26.81	30	-3.19
				1	5	0	22.59	26.89	30	-3.11
				6	0	0	20.51	24.81	30	-5.19
	20393	1754.3	QPSK	1	0	0	22.23	26.53	30	-3.47
				1	5	0	22.38	26.68	30	-3.32
				6	0	0	20.41	24.71	30	-5.29
	19957	1710.7	16QAM	1	0	0	22.28	26.58	30	-3.42
				1	5	0	22.47	26.77	30	-3.23
				6	0	0	20.54	24.84	30	-5.16
	20175	1732.5	16QAM	1	0	0	22.34	26.64	30	-3.36
				1	5	0	22.47	26.77	30	-3.23
				6	0	0	20.68	24.98	30	-5.02
	20393	1754.3	16QAM	1	0	0	22.28	26.58	30	-3.42
				1	5	0	22.41	26.71	30	-3.29
				6	0	0	20.41	24.71	30	-5.29

Antenna gain (dBi)		4.3								
M1 Band 4 Uplink frequency band : 1710 to 1755 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	0	22.45	26.75	30	-3.25
				1	5	0	22.57	26.87	30	-3.13
				6	0	0	20.51	24.81	30	-5.19
	20175	1732.5	QPSK	1	0	0	22.56	26.86	30	-3.14
				1	5	0	22.61	26.91	30	-3.09
				6	0	0	20.60	24.90	30	-5.1
	20385	1753.5	QPSK	1	0	1	22.41	26.71	30	-3.29
				1	5	1	22.55	26.85	30	-3.15
				6	0	1	20.41	24.71	30	-5.29
	19965	1711.5	16QAM	1	0	0	21.86	26.16	30	-3.84
				1	5	0	21.92	26.22	30	-3.78
				6	0	0	20.66	24.96	30	-5.04
	20175	1732.5	16QAM	1	0	0	22.10	26.40	30	-3.6
				1	5	0	22.19	26.49	30	-3.51
				6	0	0	20.71	25.01	30	-4.99
	20385	1753.5	16QAM	1	0	1	22.21	26.51	30	-3.49
				1	5	1	22.35	26.65	30	-3.35
				6	0	1	20.58	24.88	30	-5.12

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Antenna gain (dBi)	4.3									
M1 Band 4 Uplink frequency band : 1710 to 1755 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	0	22.43	26.73	30	-3.27
				1	5	0	22.51	26.81	30	-3.19
				6	0	0	21.54	25.84	30	-4.16
	20175	1732.5	QPSK	1	0	0	22.51	26.81	30	-3.19
				1	5	0	22.68	26.98	30	-3.02
				6	0	0	21.42	25.72	30	-4.28
	20375	1752.5	QPSK	1	0	3	22.52	26.82	30	-3.18
				1	5	3	22.67	26.97	30	-3.03
				6	0	3	21.47	25.77	30	-4.23
	19975	1712.5	16QAM	1	0	0	23.18	27.48	30	-2.52
				1	5	0	23.21	27.51	30	-2.49
				6	0	0	20.68	24.98	30	-5.02
	20175	1732.5	16QAM	1	0	0	23.15	27.45	30	-2.55
				1	5	0	23.29	27.59	30	-2.41
				6	0	0	20.67	24.97	30	-5.03
	20375	1752.5	16QAM	1	0	3	23.14	27.44	30	-2.56
				1	5	3	23.22	27.52	30	-2.48
				6	0	3	20.69	24.99	30	-5.01

Antenna gain (dBi)	4.3									
M1 Band 4 Uplink frequency band : 1710 to 1755 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	0	22.33	26.63	30	-3.37
				1	5	0	22.43	26.73	30	-3.27
				6	0	0	21.55	25.85	30	-4.15
	20175	1732.5	QPSK	1	0	0	22.24	26.54	30	-3.46
				1	5	0	22.35	26.65	30	-3.35
				6	0	0	21.57	25.87	30	-4.13
	20375	1750	QPSK	1	0	7	22.31	26.61	30	-3.39
				1	5	7	22.24	26.54	30	-3.46
				6	0	7	21.53	25.83	30	-4.17
	20000	1715	16QAM	1	0	0	23.05	27.35	30	-2.65
				1	5	0	23.14	27.44	30	-2.56
				6	0	0	20.68	24.98	30	-5.02
	20175	1732.5	16QAM	1	0	0	23.12	27.42	30	-2.58
				1	5	0	23.05	27.35	30	-2.65
				6	0	0	20.57	24.87	30	-5.13
	20375	1750	16QAM	1	0	7	22.99	27.29	30	-2.71
				1	5	7	23.03	27.33	30	-2.67
				6	0	7	20.57	24.87	30	-5.13

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Antenna gain (dBi)		4.3									
M1 Band 4_Uplink frequency band : 1710 to 1755 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)	
15	20025	1717.5	QPSK	1	0	0	22.21	26.51	30	-3.49	
				1	5	0	22.43	26.73	30	-3.27	
				6	0	0	22.66	26.96	30	-3.04	
	20175	1732.5	QPSK	1	0	0	22.27	26.57	30	-3.43	
				1	5	0	22.41	26.71	30	-3.29	
				6	0	0	22.43	26.73	30	-3.27	
	20325	1747.5	QPSK	1	0	11	22.41	26.71	30	-3.29	
				1	5	11	22.55	26.85	30	-3.15	
				6	0	11	22.47	26.77	30	-3.23	
	20025	1717.5	16QAM	1	0	0	22.25	26.55	30	-3.45	
				1	5	0	22.47	26.77	30	-3.23	
				6	0	0	22.62	26.92	30	-3.08	
	20175	1732.5	16QAM	1	0	0	22.31	26.61	30	-3.39	
				1	5	0	22.47	26.77	30	-3.23	
				6	0	0	22.45	26.75	30	-3.25	
	20325	1747.5	16QAM	1	0	11	22.46	26.76	30	-3.24	
				1	5	11	22.42	26.72	30	-3.28	
				6	0	11	22.53	26.83	30	-3.17	

Antenna gain (dBi)		4.3								
M1 Band 4_Uplink frequency band : 1710 to 1755 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	0	22.44	26.74	30	-3.26
				1	5	0	22.53	26.83	30	-3.17
				6	0	0	22.61	26.91	30	-3.09
	20175	1732.5	QPSK	1	0	0	22.59	26.89	30	-3.11
				1	5	0	22.67	26.97	30	-3.03
				6	0	0	22.58	26.88	30	-3.12
	20300	1745	QPSK	1	0	15	22.55	26.85	30	-3.15
				1	5	15	22.43	26.73	30	-3.27
				6	0	15	22.45	26.75	30	-3.25
	20050	1720	16QAM	1	0	0	22.42	26.72	30	-3.28
				1	5	0	22.59	26.89	30	-3.11
				6	0	0	22.68	26.98	30	-3.02
	20175	1732.5	16QAM	1	0	0	22.54	26.84	30	-3.16
				1	5	0	22.63	26.93	30	-3.07
				6	0	0	22.61	26.91	30	-3.09
	20300	1745	16QAM	1	0	15	22.49	26.79	30	-3.21
				1	5	15	22.54	26.84	30	-3.16
				6	0	15	22.52	26.82	30	-3.18

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Antenna gain (dBi) -1.63

M1 Band 5 Uplink frequency band : 824 to 849 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	0	22.57	18.79	20.94	38.45	-17.51
				1	5	0	22.55	18.77	20.92	38.45	-17.53
				6	0	0	20.69	16.91	19.06	38.45	-19.39
	20525	836.5	QPSK	1	0	0	22.61	18.83	20.98	38.45	-17.47
				1	5	0	22.78	19.00	21.15	38.45	-17.3
				6	0	0	22.73	18.95	21.10	38.45	-17.35
	20643	848.3	QPSK	1	0	0	22.76	18.98	21.13	38.45	-17.32
				1	5	0	22.62	18.84	20.99	38.45	-17.46
				6	0	0	20.78	17.00	19.15	38.45	-19.3
	20407	824.7	16QAM	1	0	0	22.55	18.77	20.92	38.45	-17.53
				1	5	0	22.16	18.38	20.53	38.45	-17.92
				6	0	0	20.79	17.01	19.16	38.45	-19.29
	20525	836.5	16QAM	1	0	0	22.25	18.47	20.62	38.45	-17.83
				1	5	0	22.46	18.68	20.83	38.45	-17.62
				6	0	0	20.86	17.08	19.23	38.45	-19.22
	20643	848.3	16QAM	1	0	0	22.26	18.48	20.63	38.45	-17.82
				1	5	0	22.12	18.34	20.49	38.45	-17.96
				6	0	0	20.94	17.16	19.31	38.45	-19.14

Antenna gain (dBi) -1.63

M1 Band 5 Uplink frequency band : 824 to 849 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	0	22.57	18.79	20.94	38.45	-17.51
				1	5	0	22.61	18.83	20.98	38.45	-17.47
				6	0	0	20.69	16.91	19.06	38.45	-19.39
	20525	836.5	QPSK	1	0	0	22.69	18.91	21.06	38.45	-17.39
				1	5	0	22.65	18.87	21.02	38.45	-17.43
				6	0	0	20.76	16.98	19.13	38.45	-19.32
	20635	847.5	QPSK	1	0	1	22.65	18.87	21.02	38.45	-17.43
				1	5	1	22.71	18.93	21.08	38.45	-17.37
				6	0	1	20.78	17.00	19.15	38.45	-19.3
	20415	825.5	16QAM	1	0	0	22.14	18.36	20.51	38.45	-17.94
				1	5	0	22.27	18.49	20.64	38.45	-17.81
				6	0	0	20.77	16.99	19.14	38.45	-19.31
	20525	836.5	16QAM	1	0	0	22.13	18.35	20.50	38.45	-17.95
				1	5	0	22.24	18.46	20.61	38.45	-17.84
				6	0	0	20.84	17.06	19.21	38.45	-19.24
	20635	847.5	16QAM	1	0	1	22.49	18.71	20.86	38.45	-17.59
				1	5	1	22.53	18.75	20.90	38.45	-17.55
				6	0	1	20.94	17.16	19.31	38.45	-19.14

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Antenna gain (dBi)	-1.63										
M1 Band 5 Uplink frequency band : 824 to 849 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	0	22.65	18.87	21.02	38.45	-17.43
				1	5	0	22.81	19.03	21.18	38.45	-17.27
				6	0	0	21.71	17.93	20.08	38.45	-18.37
	20525	836.5	QPSK	1	0	0	22.84	19.06	21.21	38.45	-17.24
				1	5	0	22.67	18.89	21.04	38.45	-17.41
				6	0	0	21.75	17.97	20.12	38.45	-18.33
	20625	846.5	QPSK	1	0	3	22.72	18.94	21.09	38.45	-17.36
				1	5	3	22.78	19.00	21.15	38.45	-17.3
				6	0	3	21.65	17.87	20.02	38.45	-18.43
	20425	826.5	16QAM	1	0	0	23.28	19.50	21.65	38.45	-16.8
				1	5	0	23.16	19.38	21.53	38.45	-16.92
				6	0	0	20.83	17.05	19.20	38.45	-19.25
	20525	836.5	16QAM	1	0	0	23.24	19.46	21.61	38.45	-16.84
				1	5	0	23.32	19.54	21.69	38.45	-16.76
				6	0	0	20.81	17.03	19.18	38.45	-19.27
	20625	846.5	16QAM	1	0	3	23.37	19.59	21.74	38.45	-16.71
				1	5	3	23.21	19.43	21.58	38.45	-16.87
				6	0	3	21.01	17.23	19.38	38.45	-19.07

Antenna gain (dBi)	-1.63										
M1 Band 5 Uplink frequency band : 824 to 849 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	0	22.71	18.93	21.08	38.45	-17.37
				1	5	0	22.53	18.75	20.90	38.45	-17.55
				6	0	0	21.68	17.90	20.05	38.45	-18.4
	20525	836.5	QPSK	1	0	0	22.61	18.83	20.98	38.45	-17.47
				1	5	0	22.63	18.85	21.00	38.45	-17.45
				6	0	0	21.45	17.67	19.82	38.45	-18.63
	20600	844	QPSK	1	0	7	22.62	18.84	20.99	38.45	-17.46
				1	5	7	22.63	18.85	21.00	38.45	-17.45
				6	0	7	21.76	17.98	20.13	38.45	-18.32
	20450	829	16QAM	1	0	0	23.24	19.46	21.61	38.45	-16.84
				1	5	0	23.26	19.48	21.63	38.45	-16.82
				6	0	0	20.75	16.97	19.12	38.45	-19.33
	20525	836.5	16QAM	1	0	0	23.36	19.58	21.73	38.45	-16.72
				1	5	0	23.24	19.46	21.61	38.45	-16.84
				6	0	0	20.94	17.16	19.31	38.45	-19.14
	20600	844	16QAM	1	0	7	23.27	19.49	21.64	38.45	-16.81
				1	5	7	23.13	19.35	21.50	38.45	-16.95
				6	0	7	20.68	16.90	19.05	38.45	-19.4

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Antenna gain (dBi) -0.36

M1 Band 12 Uplink frequency band : 699 to 716 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	0	23.33	20.82	22.97	34.77	-11.8
				1	5	0	23.36	20.85	23.00	34.77	-11.77
				6	0	0	21.31	18.80	20.95	34.77	-13.82
	23095	707.5	QPSK	1	0	0	23.35	20.84	22.99	34.77	-11.78
				1	5	0	23.34	20.83	22.98	34.77	-11.79
				6	0	0	21.33	18.82	20.97	34.77	-13.8
	23173	715.5	QPSK	1	0	0	23.39	20.88	23.03	34.77	-11.74
				1	5	0	23.34	20.83	22.98	34.77	-11.79
				6	0	0	21.32	18.81	20.96	34.77	-13.81
	23017	699.7	16QAM	1	0	0	22.85	20.34	22.49	34.77	-12.28
				1	5	0	22.86	20.35	22.50	34.77	-12.27
				6	0	0	21.42	18.91	21.06	34.77	-13.71
	23095	707.5	16QAM	1	0	0	22.84	20.33	22.48	34.77	-12.29
				1	5	0	22.82	20.31	22.46	34.77	-12.31
				6	0	0	21.46	18.95	21.10	34.77	-13.67
	23173	715.5	16QAM	1	0	0	22.66	20.15	22.30	34.77	-12.47
				1	5	0	22.65	20.14	22.29	34.77	-12.48
				6	0	0	21.33	18.82	20.97	34.77	-13.8

Antenna gain (dBi) -0.36

M1 Band 12 Uplink frequency band : 699 to 716 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	0	23.28	20.77	22.92	34.77	-11.85
				1	5	0	23.30	20.79	22.94	34.77	-11.83
				6	0	0	21.31	18.80	20.95	34.77	-13.82
	23095	707.5	QPSK	1	0	0	23.37	20.86	23.01	34.77	-11.76
				1	5	0	23.28	20.77	22.92	34.77	-11.85
				6	0	0	21.35	18.84	20.99	34.77	-13.78
	23165	714.5	QPSK	1	0	1	23.12	20.61	22.76	34.77	-12.01
				1	5	1	23.21	20.70	22.85	34.77	-11.92
				6	0	1	21.21	18.70	20.85	34.77	-13.92
	23025	700.5	16QAM	1	0	0	23.01	20.50	22.65	34.77	-12.12
				1	5	0	23.03	20.52	22.67	34.77	-12.1
				6	0	0	21.45	18.94	21.09	34.77	-13.68
	23095	707.5	16QAM	1	0	0	22.72	20.21	22.36	34.77	-12.41
				1	5	0	22.69	20.18	22.33	34.77	-12.44
				6	0	0	21.49	18.98	21.13	34.77	-13.64
	23165	714.5	16QAM	1	0	1	22.61	20.10	22.25	34.77	-12.52
				1	5	1	22.52	20.01	22.16	34.77	-12.61
				6	0	1	21.35	18.84	20.99	34.77	-13.78

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Antenna gain (dBi)	-0.36										
M1 Band 12 Uplink frequency band : 699 to 716 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	0	23.36	20.85	23.00	34.77	-11.77
				1	5	0	23.22	20.71	22.86	34.77	-11.91
				6	0	0	22.24	19.73	21.88	34.77	-12.89
	23095	707.5	QPSK	1	0	0	23.12	20.61	22.76	34.77	-12.01
				1	5	0	23.43	20.92	23.07	34.77	-11.7
				6	0	0	22.36	19.85	22.00	34.77	-12.77
	23155	713.5	QPSK	1	0	3	23.27	20.76	22.91	34.77	-11.86
				1	5	3	23.24	20.73	22.88	34.77	-11.89
				6	0	3	22.32	19.81	21.96	34.77	-12.81
	23035	701.5	16QAM	1	0	0	23.81	21.30	23.45	34.77	-11.32
				1	5	0	23.76	21.25	23.40	34.77	-11.37
				6	0	0	21.35	18.84	20.99	34.77	-13.78
	23095	707.5	16QAM	1	0	0	23.65	21.14	23.29	34.77	-11.48
				1	5	0	23.77	21.26	23.41	34.77	-11.36
				6	0	0	21.37	18.86	21.01	34.77	-13.76
	23155	713.5	16QAM	1	0	3	23.63	21.12	23.27	34.77	-11.5
				1	5	3	23.56	21.05	23.20	34.77	-11.57
				6	0	3	21.26	18.75	20.90	34.77	-13.87

Antenna gain (dBi)	-0.36										
M1 Band 12 Uplink frequency band : 699 to 716 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	0	23.37	20.86	23.01	34.77	-11.76
				1	5	0	23.28	20.77	22.92	34.77	-11.85
				6	0	0	22.36	19.85	22.00	34.77	-12.77
	23095	707.5	QPSK	1	0	0	23.24	20.73	22.88	34.77	-11.89
				1	5	0	23.26	20.75	22.90	34.77	-11.87
				6	0	0	22.25	19.74	21.89	34.77	-12.88
	23130	711	QPSK	1	0	7	23.36	20.85	23.00	34.77	-11.77
				1	5	7	23.21	20.70	22.85	34.77	-11.92
				6	0	7	22.25	19.74	21.89	34.77	-12.88
	23060	704	16QAM	1	0	0	23.84	21.33	23.48	34.77	-11.29
				1	5	0	23.79	21.28	23.43	34.77	-11.34
				6	0	0	21.44	18.93	21.08	34.77	-13.69
	23095	707.5	16QAM	1	0	0	23.79	21.28	23.43	34.77	-11.34
				1	5	0	23.77	21.26	23.41	34.77	-11.36
				6	0	0	21.35	18.84	20.99	34.77	-13.78
	23130	711	16QAM	1	0	7	23.86	21.35	23.50	34.77	-11.27
				1	5	7	23.88	21.37	23.52	34.77	-11.25
				6	0	7	21.40	18.89	21.04	34.77	-13.73

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Antenna gain (dBi) 0.18

M1 Band 13_Uplink frequency band : 777 to 787 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	0	23.12	21.15	23.30	34.77	-11.47
				1	5	0	23.15	21.18	23.33	34.77	-11.44
				6	0	0	22.18	20.21	22.36	34.77	-12.41
	23230	782	QPSK	1	0	0	23.15	21.18	23.33	34.77	-11.44
				1	5	0	23.16	21.19	23.34	34.77	-11.43
				6	0	0	22.12	20.15	22.30	34.77	-12.47
	23255	784.5	QPSK	1	0	3	23.21	21.24	23.39	34.77	-11.38
				1	5	3	23.18	21.21	23.36	34.77	-11.41
				6	0	3	22.16	20.19	22.34	34.77	-12.43
	23205	779.5	16QAM	1	0	0	23.72	21.75	23.90	34.77	-10.87
				1	5	0	23.68	21.71	23.86	34.77	-10.91
				6	0	0	21.29	19.32	21.47	34.77	-13.3
	23230	782	16QAM	1	0	0	23.66	21.69	23.84	34.77	-10.93
				1	5	0	23.69	21.72	23.87	34.77	-10.9
				6	0	0	21.28	19.31	21.46	34.77	-13.31
	23255	784.5	16QAM	1	0	3	23.69	21.72	23.87	34.77	-10.9
				1	5	3	23.63	21.66	23.81	34.77	-10.96
				6	0	3	21.06	19.09	21.24	34.77	-13.53

Antenna gain (dBi) 0.18

M1 Band 13_Uplink frequency band : 777 to 787 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	0	23.22	21.25	23.40	34.77	-11.37
				1	5	0	23.27	21.30	23.45	34.77	-11.32
				6	0	0	22.17	20.20	22.35	34.77	-12.42
	23230	782	16QAM	1	0	0	23.75	21.78	23.93	34.77	-10.84
				1	5	0	23.71	21.74	23.89	34.77	-10.88
				6	0	0	21.34	19.37	21.52	34.77	-13.25

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Antenna gain (dBi) -1.63

M1 Band 26 Uplink frequency band : 824 to 849 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26797	824.7	QPSK	1	0	0	22.52	18.74	20.89	38.45	-17.56
				1	5	0	22.48	18.70	20.85	38.45	-17.6
				6	0	0	20.61	16.83	18.98	38.45	-19.47
	26915	836.5	QPSK	1	0	0	22.51	18.73	20.88	38.45	-17.57
				1	5	0	22.53	18.75	20.90	38.45	-17.55
				6	0	0	20.58	16.80	18.95	38.45	-19.5
	27033	848.3	QPSK	1	0	0	22.55	18.77	20.92	38.45	-17.53
				1	5	0	22.57	18.79	20.94	38.45	-17.51
				6	0	0	20.61	16.83	18.98	38.45	-19.47
	26797	824.7	16QAM	1	0	0	22.28	18.50	20.65	38.45	-17.8
				1	5	0	22.22	18.44	20.59	38.45	-17.86
				6	0	0	20.79	17.01	19.16	38.45	-19.29
	26915	836.5	16QAM	1	0	0	22.25	18.47	20.62	38.45	-17.83
				1	5	0	22.26	18.48	20.63	38.45	-17.82
				6	0	0	20.74	16.96	19.11	38.45	-19.34
	27033	848.3	16QAM	1	0	0	22.24	18.46	20.61	38.45	-17.84
				1	5	0	22.29	18.51	20.66	38.45	-17.79
				6	0	0	20.78	17.00	19.15	38.45	-19.3

Antenna gain (dBi) -1.63

M1 Band 26 Uplink frequency band : 824 to 849 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26805	825.5	QPSK	1	0	0	22.48	18.70	20.85	38.45	-17.6
				1	5	0	22.50	18.72	20.87	38.45	-17.58
				6	0	0	20.48	16.70	18.85	38.45	-19.6
	26915	836.5	QPSK	1	0	0	22.49	18.71	20.86	38.45	-17.59
				1	5	0	22.53	18.75	20.90	38.45	-17.55
				6	0	0	20.43	16.65	18.80	38.45	-19.65
	27025	847.5	QPSK	1	0	1	22.48	18.70	20.85	38.45	-17.6
				1	5	1	22.55	18.77	20.92	38.45	-17.53
				6	0	1	20.49	16.71	18.86	38.45	-19.59
	26805	825.5	16QAM	1	0	0	22.16	18.38	20.53	38.45	-17.92
				1	5	0	22.13	18.35	20.50	38.45	-17.95
				6	0	0	20.72	16.94	19.09	38.45	-19.36
	26915	836.5	16QAM	1	0	0	22.11	18.33	20.48	38.45	-17.97
				1	5	0	22.13	18.35	20.50	38.45	-17.95
				6	0	0	20.68	16.90	19.05	38.45	-19.4
	27025	847.5	16QAM	1	0	1	22.13	18.35	20.50	38.45	-17.95
				1	5	1	22.14	18.36	20.51	38.45	-17.94
				6	0	1	20.73	16.95	19.10	38.45	-19.35

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Antenna gain (dBi)	-1.63										
M1 Band 26 Uplink frequency band : 824 to 849 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26815	826.5	QPSK	1	0	0	22.48	18.70	20.85	38.45	-17.6
				1	5	0	22.67	18.89	21.04	38.45	-17.41
				6	0	0	21.47	17.69	19.84	38.45	-18.61
	26915	836.5	QPSK	1	0	0	22.64	18.86	21.01	38.45	-17.44
				1	5	0	22.70	18.92	21.07	38.45	-17.38
				6	0	0	21.50	17.72	19.87	38.45	-18.58
	27015	846.5	QPSK	1	0	3	22.73	18.95	21.10	38.45	-17.35
				1	5	3	22.75	18.97	21.12	38.45	-17.33
				6	0	3	21.60	17.82	19.97	38.45	-18.48
	26815	826.5	16QAM	1	0	0	23.03	19.25	21.40	38.45	-17.05
				1	5	0	23.09	19.31	21.46	38.45	-16.99
				6	0	0	20.64	16.86	19.01	38.45	-19.44
	26915	836.5	16QAM	1	0	0	23.03	19.25	21.40	38.45	-17.05
				1	5	0	23.05	19.27	21.42	38.45	-17.03
				6	0	0	20.67	16.89	19.04	38.45	-19.41
	27015	846.5	16QAM	1	0	3	23.04	19.26	21.41	38.45	-17.04
				1	5	3	23.01	19.23	21.38	38.45	-17.07
				6	0	3	20.69	16.91	19.06	38.45	-19.39

Antenna gain (dBi)	-1.63										
M1 Band 26 Uplink frequency band : 824 to 849 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26840	829	QPSK	1	0	0	22.46	18.68	20.83	38.45	-17.62
				1	5	0	22.40	18.62	20.77	38.45	-17.68
				6	0	0	21.39	17.61	19.76	38.45	-18.69
	26915	836.5	QPSK	1	0	0	22.47	18.69	20.84	38.45	-17.61
				1	5	0	22.49	18.71	20.86	38.45	-17.59
				6	0	0	21.56	17.78	19.93	38.45	-18.52
	26990	844	QPSK	1	0	7	22.47	18.69	20.84	38.45	-17.61
				1	5	7	22.43	18.65	20.80	38.45	-17.65
				6	0	7	21.56	17.78	19.93	38.45	-18.52
	26840	829	16QAM	1	0	0	23.18	19.40	21.55	38.45	-16.9
				1	5	0	23.15	19.37	21.52	38.45	-16.93
				6	0	0	20.83	17.05	19.20	38.45	-19.25
	26915	836.5	16QAM	1	0	0	23.11	19.33	21.48	38.45	-16.97
				1	5	0	23.17	19.39	21.54	38.45	-16.91
				6	0	0	20.89	17.11	19.26	38.45	-19.19
	26990	844	16QAM	1	0	7	23.08	19.30	21.45	38.45	-17
				1	5	7	23.15	19.37	21.52	38.45	-16.93
				6	0	7	20.82	17.04	19.19	38.45	-19.26

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Antenna gain (dBi)		-1.63											
M1 Band 26 Uplink frequency band : 824 to 849 MHz													
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)		
15	26865	831.5	QPSK	1	0	0	22.49	18.71	20.86	38.45	-17.59		
				1	5	0	22.46	18.68	20.83	38.45	-17.62		
				6	0	0	22.53	18.75	20.90	38.45	-17.55		
	26915	836.5	QPSK	1	0	0	22.48	18.70	20.85	38.45	-17.6		
				1	5	0	22.44	18.66	20.81	38.45	-17.64		
				6	0	0	22.56	18.78	20.93	38.45	-17.52		
	26965	841.5	QPSK	1	0	11	22.41	18.63	20.78	38.45	-17.67		
				1	5	11	22.47	18.69	20.84	38.45	-17.61		
				6	0	11	22.58	18.80	20.95	38.45	-17.5		
	26865	831.5	16QAM	1	0	0	23.05	19.27	21.42	38.45	-17.03		
				1	5	0	23.02	19.24	21.39	38.45	-17.06		
				6	0	0	22.75	18.97	21.12	38.45	-17.33		
	26915	836.5	16QAM	1	0	0	23.01	19.23	21.38	38.45	-17.07		
				1	5	0	23.02	19.24	21.39	38.45	-17.06		
				6	0	0	22.85	19.07	21.22	38.45	-17.23		
	26965	841.5	16QAM	1	0	11	23.13	19.35	21.50	38.45	-16.95		
				1	5	11	23.10	19.32	21.47	38.45	-16.98		
				6	0	11	22.67	18.89	21.04	38.45	-17.41		

Antenna gain (dBi)		-1.68									
Part 90S_M1 Band 26 Uplink frequency band : 814 to 824 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26697	814.7	QPSK	1	0	0	22.45	18.62	20.77	50	-29.23
				1	5	0	22.41	18.58	20.73	50	-29.27
				6	0	0	20.47	16.64	18.79	50	-31.21
	26740	819	QPSK	1	0	0	22.44	18.61	20.76	50	-29.24
				1	5	0	22.38	18.55	20.70	50	-29.3
				6	0	0	20.48	16.65	18.80	50	-31.2
	26783	823.3	QPSK	1	0	0	22.48	18.65	20.80	50	-29.2
				1	5	0	22.42	18.59	20.74	50	-29.26
				6	0	0	20.45	16.62	18.77	50	-31.23
	26697	814.7	16QAM	1	0	0	22.27	18.44	20.59	50	-29.41
				1	5	0	22.26	18.43	20.58	50	-29.42
				6	0	0	20.61	16.78	18.93	50	-31.07
	26740	819	16QAM	1	0	0	22.24	18.41	20.56	50	-29.44
				1	5	0	22.29	18.46	20.61	50	-29.39
				6	0	0	20.58	16.75	18.90	50	-31.1
	26783	823.3	16QAM	1	0	0	22.28	18.45	20.60	50	-29.4
				1	5	0	22.23	18.40	20.55	50	-29.45
				6	0	0	20.54	16.71	18.86	50	-31.14

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Antenna gain (dBi)	-1.68										
Part 90S_M1 Band 26 Uplink frequency band : 814 to 824 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26705	815.5	QPSK	1	0	0	22.43	18.60	20.75	50	-29.25
				1	5	0	22.42	18.59	20.74	50	-29.26
				6	0	0	20.49	16.66	18.81	50	-31.19
	26740	819	QPSK	1	0	0	22.44	18.61	20.76	50	-29.24
				1	5	0	22.45	18.62	20.77	50	-29.23
				6	0	0	20.48	16.65	18.80	50	-31.2
	26775	822.5	QPSK	1	0	1	22.47	18.64	20.79	50	-29.21
				1	5	1	22.43	18.60	20.75	50	-29.25
				6	0	1	20.52	16.69	18.84	50	-31.16
	26705	815.5	16QAM	1	0	0	21.77	17.94	20.09	50	-29.91
				1	5	0	21.72	17.89	20.04	50	-29.96
				6	0	0	20.55	16.72	18.87	50	-31.13
	26740	819	16QAM	1	0	0	21.74	17.91	20.06	50	-29.94
				1	5	0	21.78	17.95	20.10	50	-29.9
				6	0	0	20.59	16.76	18.91	50	-31.09
	26775	822.5	16QAM	1	0	1	21.78	17.95	20.10	50	-29.9
				1	5	1	21.75	17.92	20.07	50	-29.93
				6	0	1	20.55	16.72	18.87	50	-31.13

Antenna gain (dBi)	-1.68										
Part 90S_M1 Band 26 Uplink frequency band : 814 to 824 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26715	816.5	QPSK	1	0	0	22.55	18.72	20.87	50	-29.13
				1	5	0	22.43	18.60	20.75	50	-29.25
				6	0	0	21.35	17.52	19.67	50	-30.33
	26740	819	QPSK	1	0	0	22.53	18.70	20.85	50	-29.15
				1	5	0	22.42	18.59	20.74	50	-29.26
				6	0	0	21.36	17.53	19.68	50	-30.32
	26765	821.5	QPSK	1	0	3	22.59	18.76	20.91	50	-29.09
				1	5	3	22.45	18.62	20.77	50	-29.23
				6	0	3	21.38	17.55	19.70	50	-30.3
	26715	816.5	16QAM	1	0	0	23.02	19.19	21.34	50	-28.66
				1	5	0	23.04	19.21	21.36	50	-28.64
				6	0	0	20.67	16.84	18.99	50	-31.01
	26740	819	16QAM	1	0	0	23.01	19.18	21.33	50	-28.67
				1	5	0	23.00	19.17	21.32	50	-28.68
				6	0	0	20.63	16.80	18.95	50	-31.05
	26765	821.5	16QAM	1	0	3	23.00	19.17	21.32	50	-28.68
				1	5	3	23.05	19.22	21.37	50	-28.63
				6	0	3	20.69	16.86	19.01	50	-30.99

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Antenna gain (dBi)	-1.68										
Part 90S_M1 Band 26 Uplink frequency band : 814 to 824 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26740	819	QPSK	1	0	0	22.43	18.60	20.75	50	-29.25
				1	5	0	22.45	18.62	20.77	50	-29.23
				6	0	0	21.39	17.56	19.71	50	-30.29
	26740	819	16QAM	1	0	0	23.01	19.18	21.33	50	-28.67
				1	5	0	23.03	19.20	21.35	50	-28.65
				6	0	0	20.84	17.01	19.16	50	-30.84

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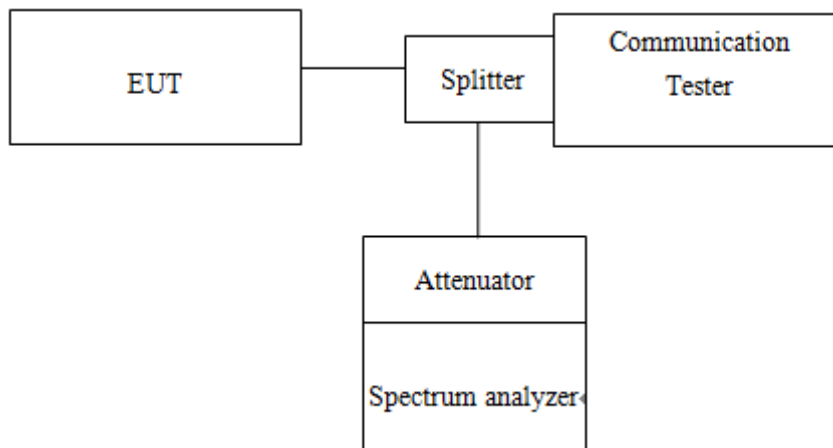
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8 OCCUPIED BANDWIDTH MEASUREMENT

8.1 Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

8.2 Test Set-up



8.3 Measurement Procedure

99% & 26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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8.4 Measurement Result

8.4.1 NB IoT

LTE NB-IoT Band 2						
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Measure Result (kHz)	
					26dB BW	99% BW
18601	1850.1	BPSK	3.75	1@0	307.400	229.00
		QPSK	15	1@0	256.000	210.38
		QPSK	15	12@0	268.300	222.04
18900	1880	BPSK	3.75	1@0	308.300	227.65
		QPSK	15	1@0	261.200	211.19
		QPSK	15	12@0	261.600	221.53
19199	1909.9	BPSK	3.75	1@0	279.400	224.62
		QPSK	15	1@0	257.600	208.13
		QPSK	15	12@0	271.700	222.32
LTE NB-IoT Band 4						
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Measure Result (kHz)	
					26dB BW	99% BW
19951	1710.1	BPSK	3.75	1@0	312.700	228.83
		QPSK	15	1@0	267.900	213.99
		QPSK	15	12@0	278.900	222.40
20175	1732.5	BPSK	3.75	1@0	322.100	229.27
		QPSK	15	1@0	260.500	212.39
		QPSK	15	12@0	266.400	222.91
20399	1754.9	BPSK	3.75	1@0	314.000	230.08
		QPSK	15	1@0	270.200	214.44
		QPSK	15	12@0	267.400	222.65
LTE NB-IoT Band 5						
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Measure Result (kHz)	
					26dB BW	99% BW
20401	824.1	BPSK	3.75	1@0	273.900	221.73
		QPSK	15	1@0	245.600	200.10
		QPSK	15	12@0	273.000	220.77
20525	836.5	BPSK	3.75	1@0	272.300	223.21
		QPSK	15	1@0	254.000	198.88
		QPSK	15	12@0	274.000	221.84
20649	848.9	BPSK	3.75	1@0	268.300	223.60
		QPSK	15	1@0	255.500	200.62
		QPSK	15	12@0	271.500	218.98

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LTE NB-IoT Band 12						
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Measure Result (kHz)	
					26dB BW	99% BW
23011	699.1	BPSK	3.75	1@0	277.700	223.32
		QPSK	15	1@0	254.400	198.30
		QPSK	15	12@0	268.300	219.48
23095	707.5	BPSK	3.75	1@0	274.300	223.02
		QPSK	15	1@0	244.300	195.39
		QPSK	15	12@0	268.700	225.64
23719	715.9	BPSK	3.75	1@0	270.400	217.93
		QPSK	15	1@0	248.700	197.76
		QPSK	15	12@0	279.800	217.28
LTE NB-IoT Band 13						
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Measure Result (kHz)	
					26dB BW	99% BW
23181	777.1	BPSK	3.75	1@0	273.500	222.24
		QPSK	15	1@0	256.200	201.23
		QPSK	15	12@0	264.500	221.54
23230	782	BPSK	3.75	1@0	280.800	218.61
		QPSK	15	1@0	248.400	200.29
		QPSK	15	12@0	275.400	219.85
23279	786.9	BPSK	3.75	1@0	284.400	224.10
		QPSK	15	1@0	254.000	200.11
		QPSK	15	12@0	277.500	220.80
LTE NB-IoT Band 26						
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Measure Result (kHz)	
					26dB BW	99% BW
26791	824.1	BPSK	3.75	1@0	273.300	223.86
		QPSK	15	1@0	251.900	199.12
		QPSK	15	12@0	269.400	217.08
26915	836.5	BPSK	3.75	1@0	273.900	223.61
		QPSK	15	1@0	248.600	202.24
		QPSK	15	12@0	268.400	221.00
27039	848.9	BPSK	3.75	1@0	273.400	224.12
		QPSK	15	1@0	255.500	201.88
		QPSK	15	12@0	275.500	219.03

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LTE NB-IoT Band 26_Part90						
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Measure Result (kHz)	
					26dB BW	99% BW
26691	814.1	BPSK	3.75	1@0	224.290	275.10
		QPSK	15	1@0	201.950	257.40
		QPSK	15	12@0	219.280	272.30
26740	819	BPSK	3.75	1@0	211.660	252.80
		QPSK	15	1@0	199.620	250.60
		QPSK	15	12@0	223.650	262.80
26789	823.9	BPSK	3.75	1@0	224.160	276.90
		QPSK	15	1@0	201.880	249.10
		QPSK	15	12@0	222.780	276.20

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8.4.2 Cat M1

M1 BAND 2 Channel bandwidth: 1.4MHz						M1 BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.0919	1.0991	1.270	1.273	1851.5	18615	1.1829	1.1997	2.318	2.092
1880.0	18900	1.0926	1.0999	1.286	1.281	1880.0	18900	1.1785	1.1843	2.572	1.459
1909.3	19193	1.0916	1.1023	1.262	1.263	1908.5	19185	1.2203	1.1660	2.657	1.429
M1 BAND 2 Channel bandwidth: 5MHz						M1 BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
1852.5	18625	1.3331	1.2842	3.332	1.879	1855.0	18650	1.9901	2.6042	3.712	3.795
1880.0	18900	1.4435	1.2694	2.987	1.725	1880.0	18900	1.9204	1.9928	3.799	3.754
1907.5	19175	1.2742	1.2337	2.647	1.793	1905.0	19150	1.9864	1.9733	3.901	3.425
M1 BAND 2 Channel bandwidth: 15MHz						M1 BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
1857.5	18675	2.245	2.293	5.650	3.262	1860.0	18700	3.325	2.763	6.135	4.145
1880.0	18900	2.300	2.226	3.370	3.548	1880.0	18900	2.426	2.614	5.531	4.502
1902.5	19125	2.107	1.974	3.837	3.857	1900.0	19100	2.535	2.383	3.816	3.829
M1 BAND 4 Channel bandwidth: 1.4MHz						M1 BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.0919	1.1017	1.273	1.283	1711.5	19965	1.1946	1.1868	2.671	1.816
1732.5	20175	1.0986	1.0941	1.310	1.267	1732.5	20175	1.2129	1.1779	2.516	1.479
1754.3	20393	1.0911	1.1003	1.262	1.266	1753.5	20385	1.2002	1.1594	2.543	2.178
M1 BAND 4 Channel bandwidth: 5MHz						M1 BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
1712.5	19975	1.3107	1.2239	3.255	1.587	1715.0	20000	2.0659	2.0817	3.986	3.383
1732.5	20175	1.3003	1.2488	2.887	1.613	1732.5	20175	1.9888	1.9287	3.819	3.794
1752.5	20375	1.2944	1.2165	3.018	1.548	1750.0	20350	1.8569	1.9931	3.582	3.550
M1 BAND 4 Channel bandwidth: 15MHz						M1 BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
1717.5	20025	2.324	2.155	4.055	3.680	1720.0	20050	2.441	2.187	5.081	3.101
1732.5	20175	2.200	2.284	3.280	3.507	1732.5	20175	2.662	2.088	5.404	3.018
1747.5	20325	2.218	1.931	3.511	3.715	1745.0	20300	2.716	2.357	3.898	3.736

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M1 BAND 5 Channel bandwidth: 1.4MHz						M1 BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
824.7	20407	1.0929	1.0959	1.277	1.295	825.5	20415	1.1856	1.1805	2.236	1.470
836.5	20525	1.0961	1.0904	1.285	1.276	836.5	20525	1.2042	1.1716	2.443	2.200
848.3	20643	1.0964	1.0985	1.286	1.269	847.5	20635	1.1976	1.1719	2.633	1.453
M1 BAND 5 Channel bandwidth: 5MHz						M1 BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
826.5	20425	1.3059	1.2282	2.844	1.561	829.0	20450	2.1334	2.0515	4.117	3.536
836.5	20525	1.7009	1.2383	3.209	1.569	836.5	20525	2.2606	2.5460	4.113	3.841
846.5	20625	1.3457	1.2377	2.896	1.456	844.0	20600	1.8906	2.1794	4.171	3.577
M1 BAND 12 Channel bandwidth: 1.4MHz						M1 BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
699.7	23017	1.0975	1.0978	1.293	1.302	700.5	23025	1.2162	1.1856	2.181	1.465
707.5	23095	1.0890	1.0957	1.272	1.280	707.5	23095	1.2173	1.1641	2.586	1.425
715.3	23173	1.0933	1.0919	1.305	1.272	714.5	23165	1.1885	1.1657	2.548	1.437
M1 BAND 12 Channel bandwidth: 5MHz						M1 BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
701.5	23035	1.3336	1.2720	2.810	1.601	704.0	23060	2.3087	2.5362	3.980	3.715
707.5	23095	1.3468	1.2886	3.061	2.409	707.5	23095	2.2743	2.0445	3.870	3.746
713.5	23155	1.3073	1.2570	3.018	1.593	711.0	23130	1.8749	1.9477	4.200	3.584
M1 BAND 13 Channel bandwidth: 5MHz						M1 BAND 13 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
779.5	23205	1.3430	1.2718	3.142	1.578	782.0	23230	1.967	2.052	3.608	3.819
782.0	23230	1.3158	1.2597	2.996	1.640						
784.5	23255	1.3058	1.2527	2.515	1.556						

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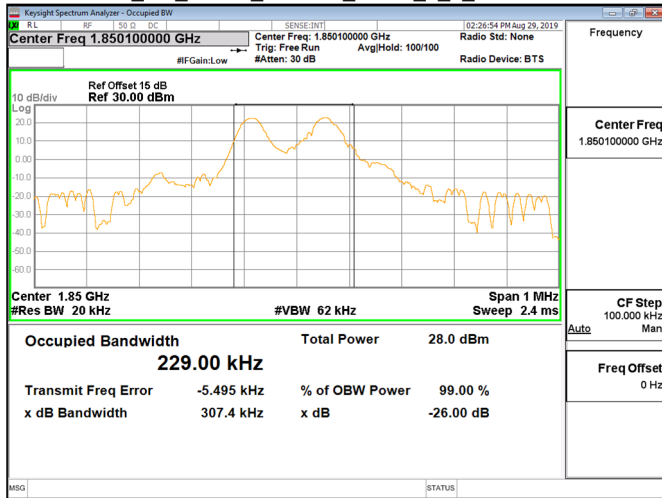
M1 BAND 26 Channel bandwidth: 1.4MHz						M1 BAND 26 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
824.7	26797	1.0944	1.0941	1.281	1.285	825.5	26805	1.2263	1.1827	2.923	1.441
836.5	26915	1.0962	1.0994	1.287	1.295	836.5	26915	1.2490	1.1830	2.930	1.514
848.3	27033	1.0962	1.0950	1.289	1.258	847.5	27025	1.2413	1.1687	3.050	1.444
M1 BAND 26 Channel bandwidth: 5MHz						M1 BAND 26 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
826.5	26815	1.3587	1.2934	3.689	2.554	829.0	26840	1.9523	2.0630	3.840	4.033
836.5	26915	1.3550	1.2877	3.135	1.589	836.5	26915	2.5778	2.5495	4.366	3.932
846.5	27015	1.3375	1.2446	3.029	1.610	844.0	26990	1.8117	2.4210	3.354	4.055
M1 BAND 26 Channel bandwidth: 15MHz											
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
831.5	26865	2.310	2.120	4.354	4.171						
836.5	26915	2.355	2.294	4.441	4.541						
841.5	26965	2.235	2.377	4.523	3.976						
M1 BAND 26 for part 90S Channel bandwidth: 1.4MHz						M1 BAND 26 for part 90S Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
814.7	26697	1.0964	1.0980	1.282	1.289	815.5	26705	1.2093	1.2118	2.903	2.742
819.0	26740	1.0974	1.0964	1.279	1.286	819.0	26740	1.2188	1.2308	2.646	2.933
823.3	26783	1.0961	1.0947	1.282	1.281	822.5	26775	1.2675	1.3861	2.876	2.844
M1 BAND 26 for part 90S Channel bandwidth: 5MHz						M1 BAND 26 for part 90S Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
816.5	26715	1.3541	1.2759	3.965	1.787	819.0	26740	2.5316	2.4742	4.311	4.577
819.0	26740	1.3117	1.3285	3.005	2.900						
821.5	26765	1.3302	1.2685	3.068	1.580						

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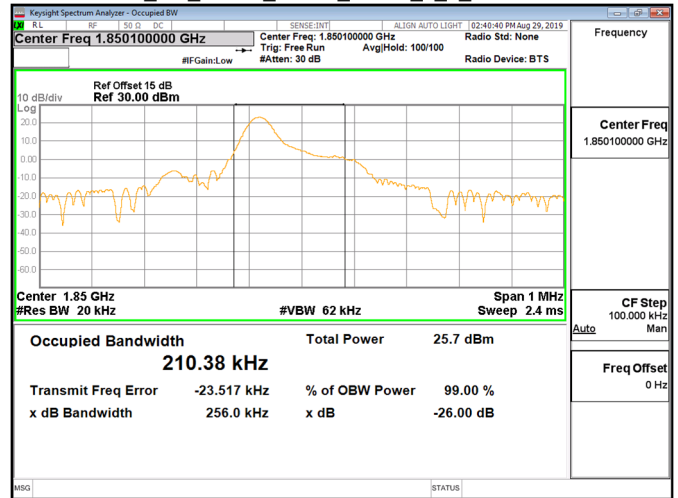
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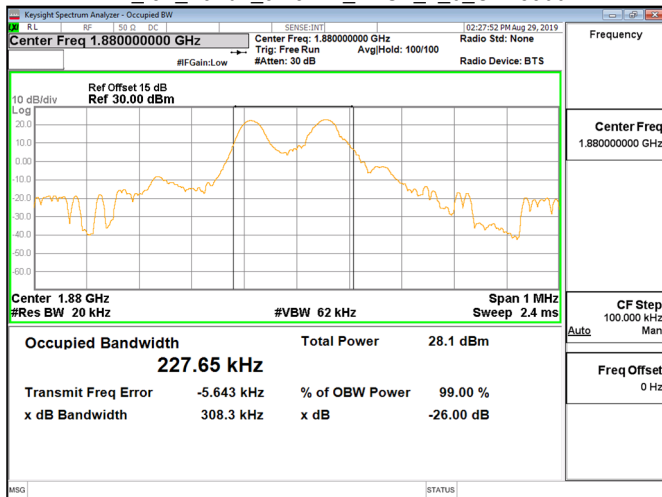
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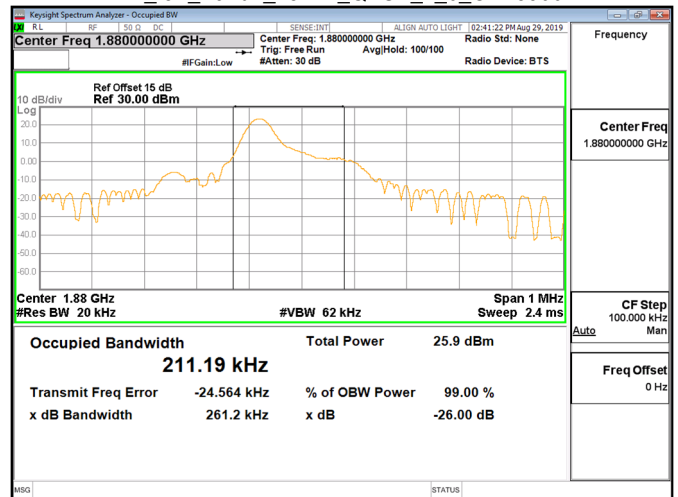
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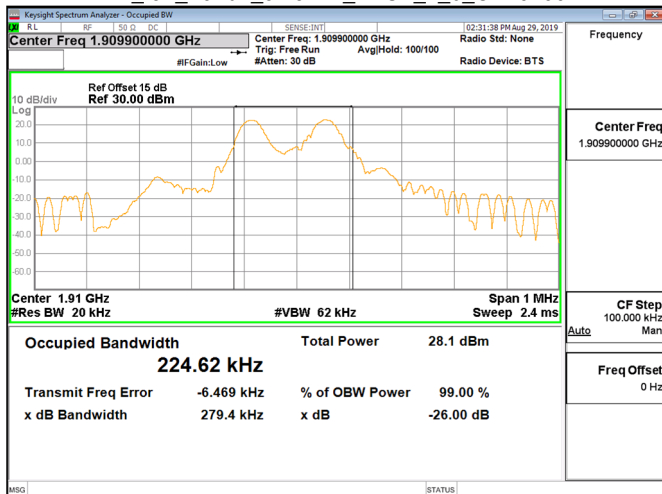
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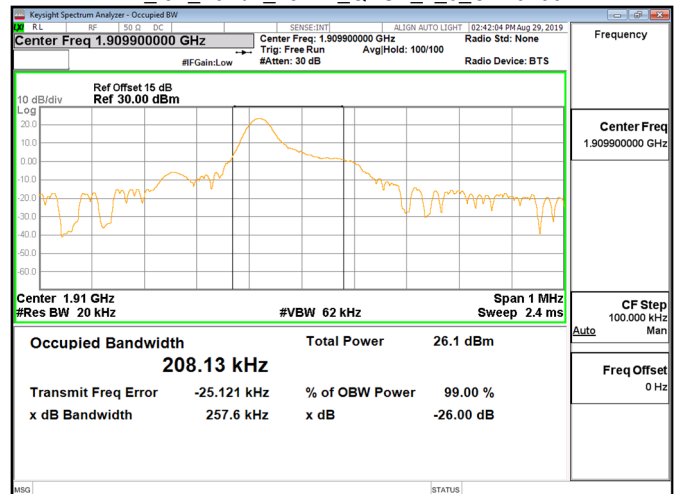
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NB_IoT_Band2_3.75kHz_BPSK_1_0_CH19199



NB_IoT_Band2_15kHz_QPSK_1_0_CH19199

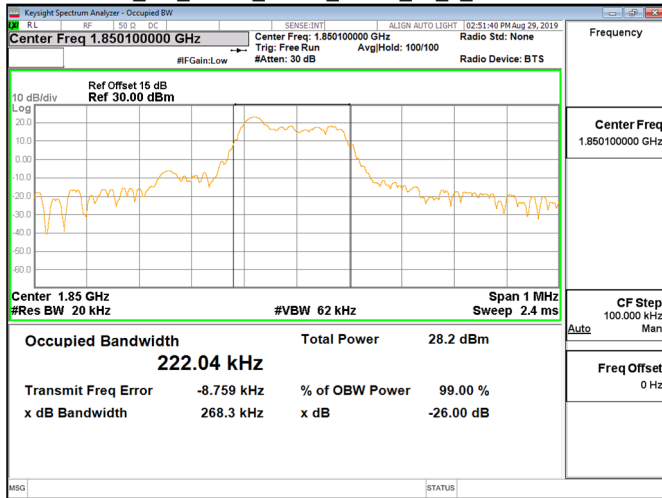


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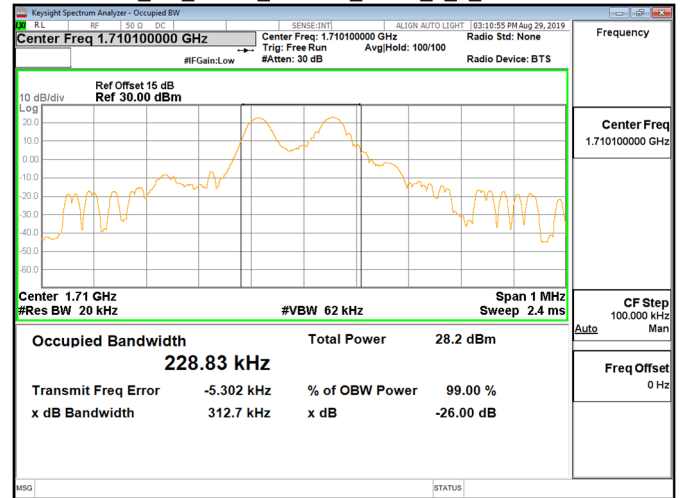
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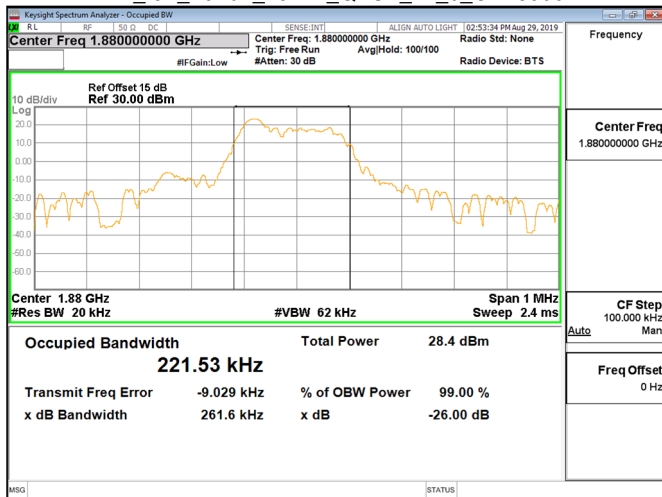
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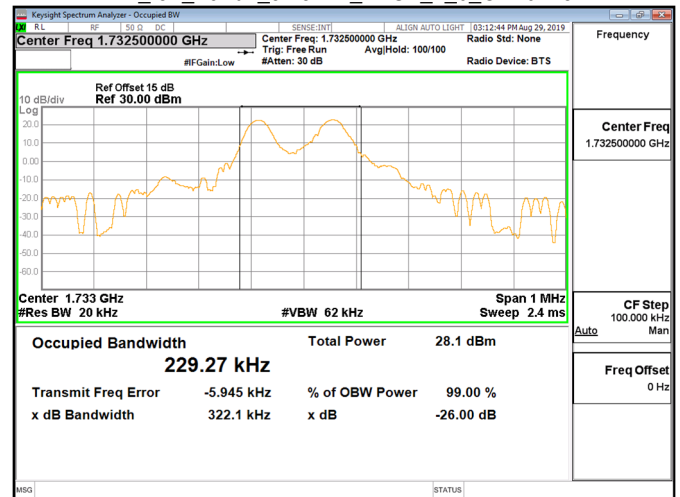
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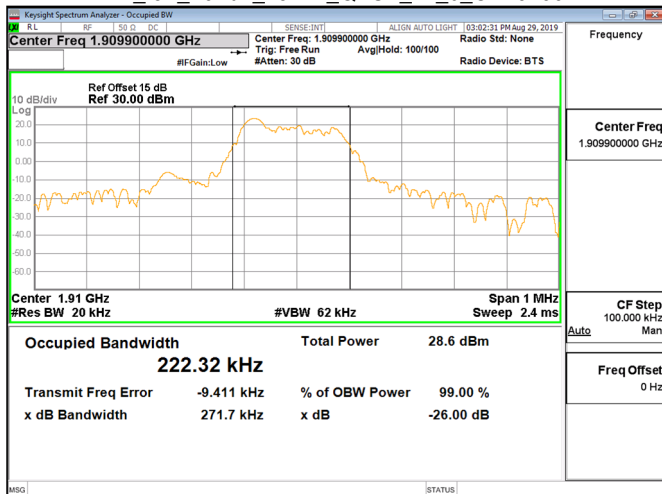
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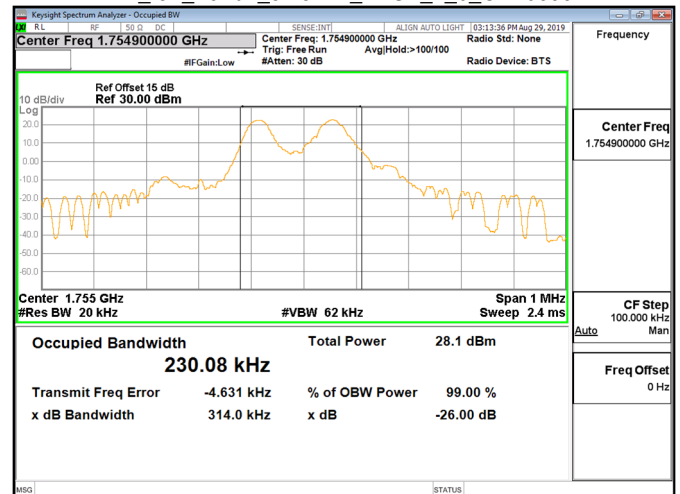
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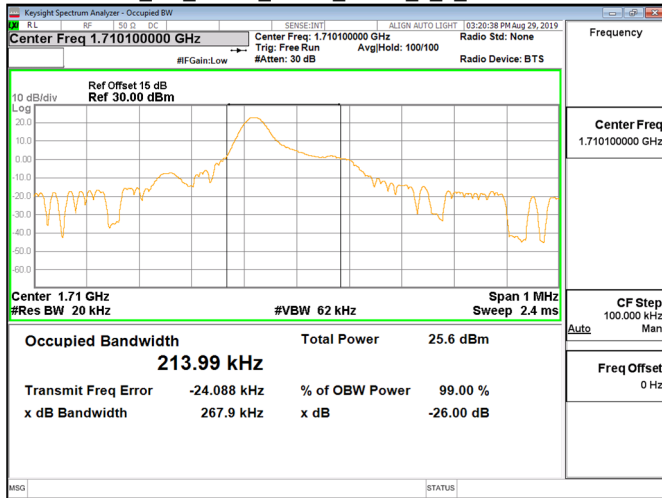


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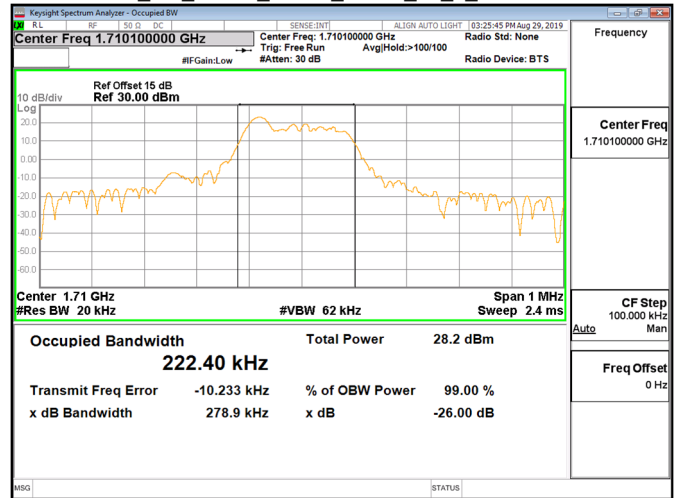
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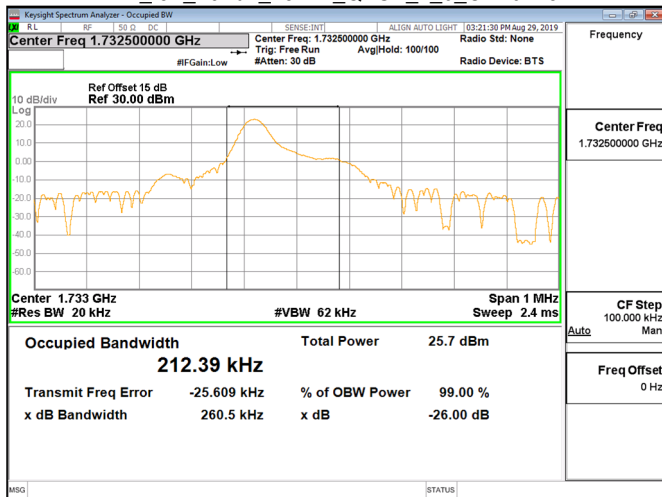
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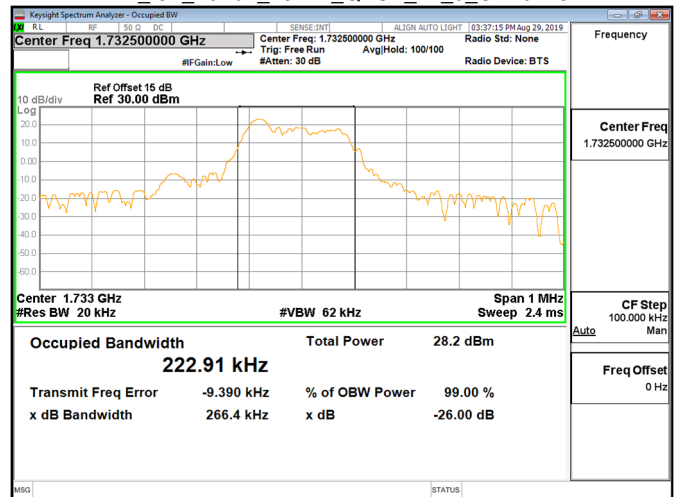
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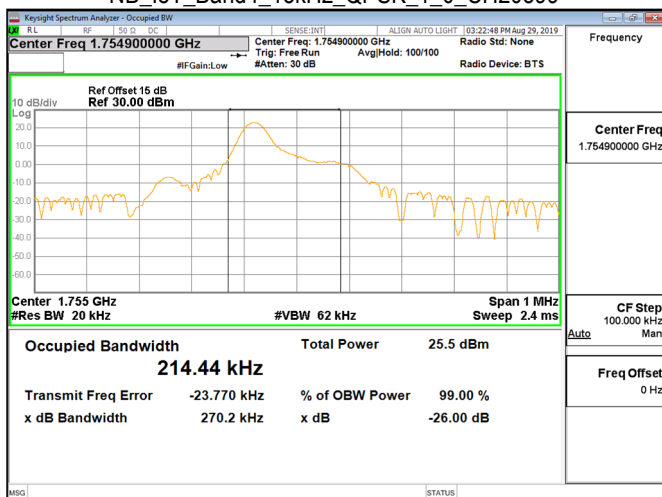
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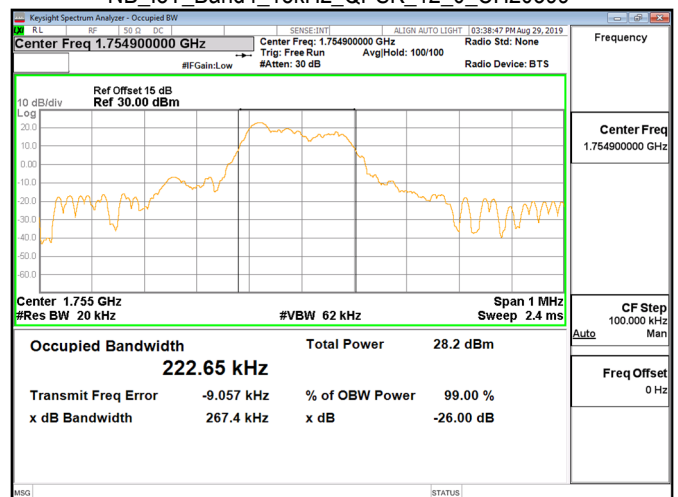
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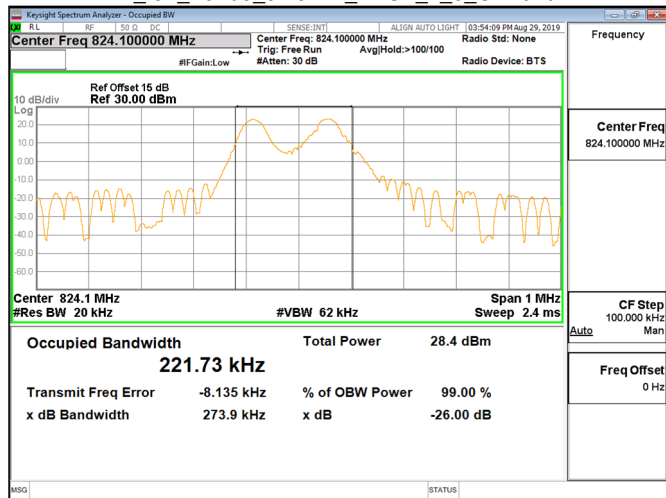


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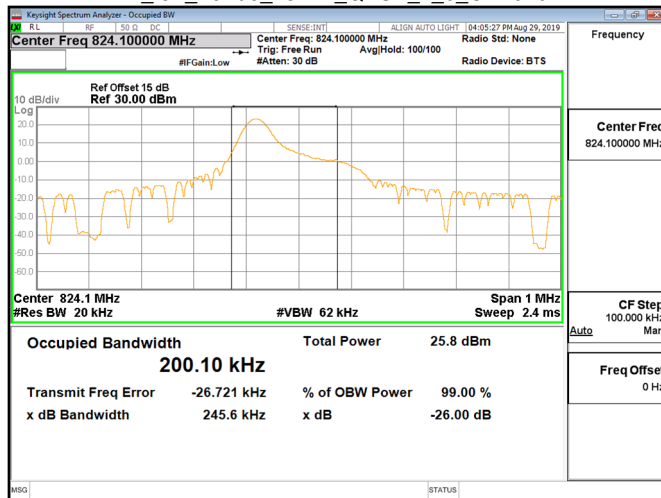
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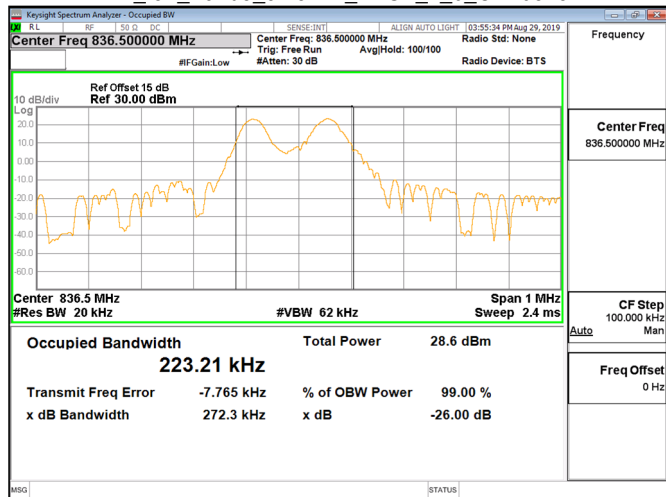
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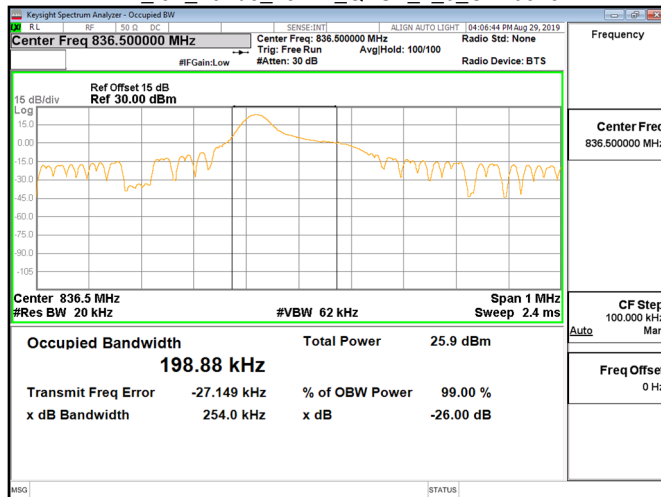
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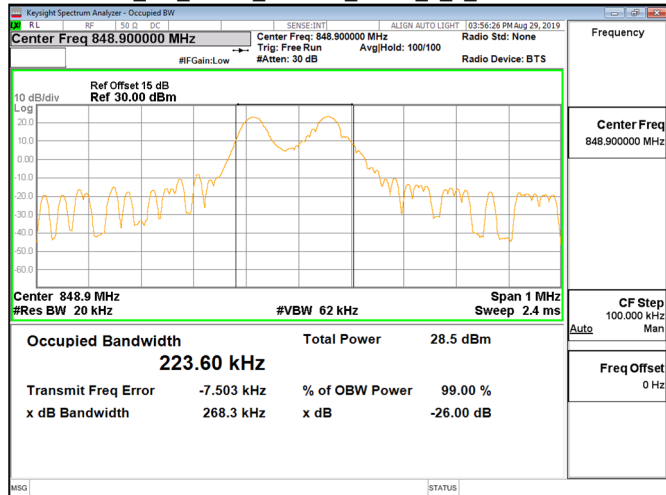
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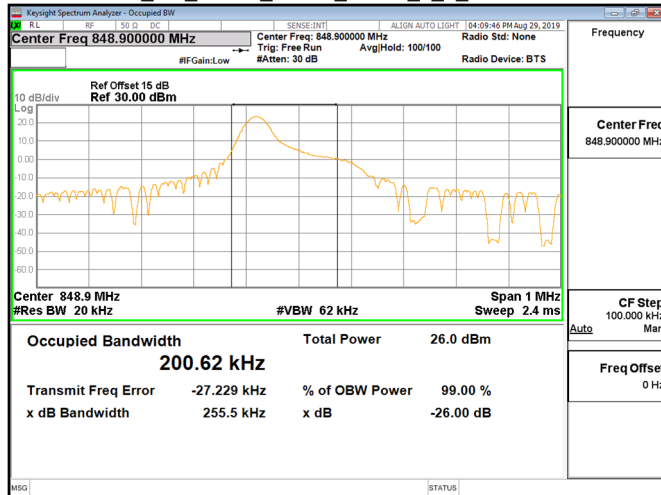
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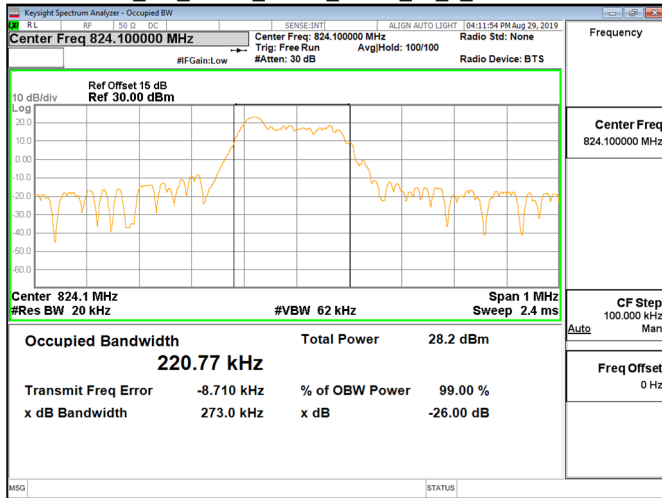


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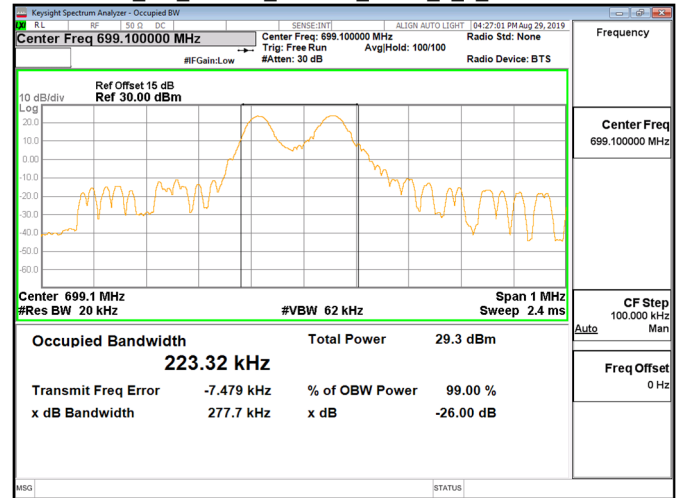
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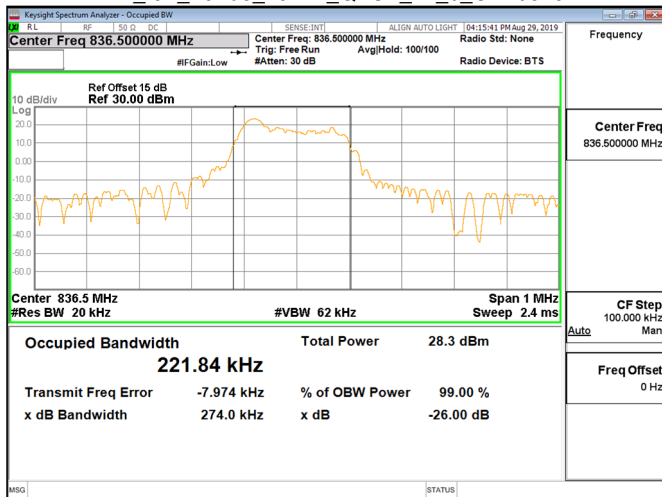
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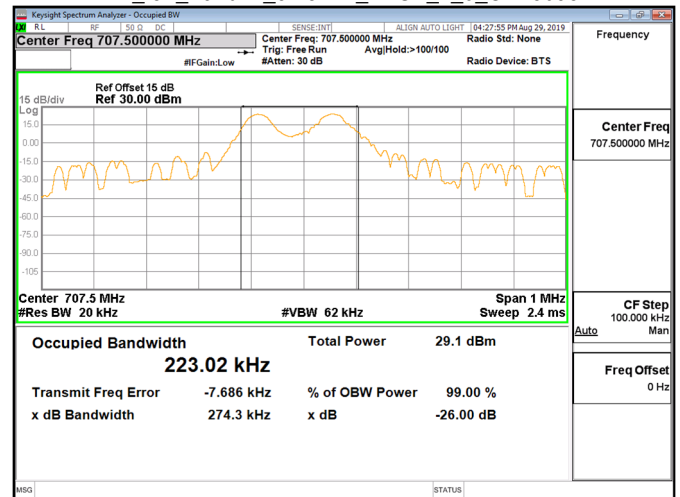
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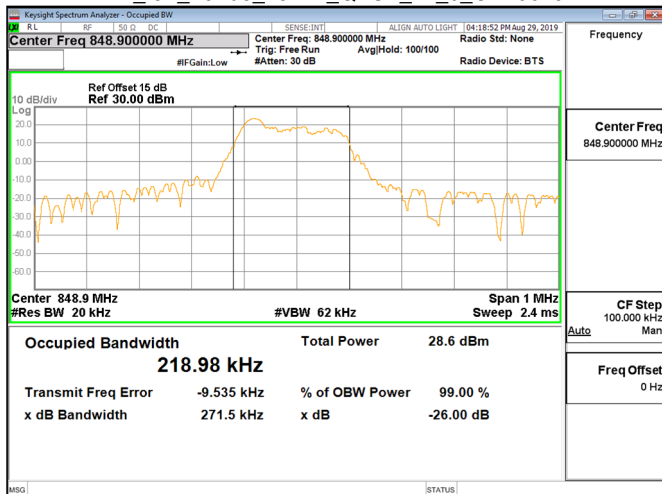
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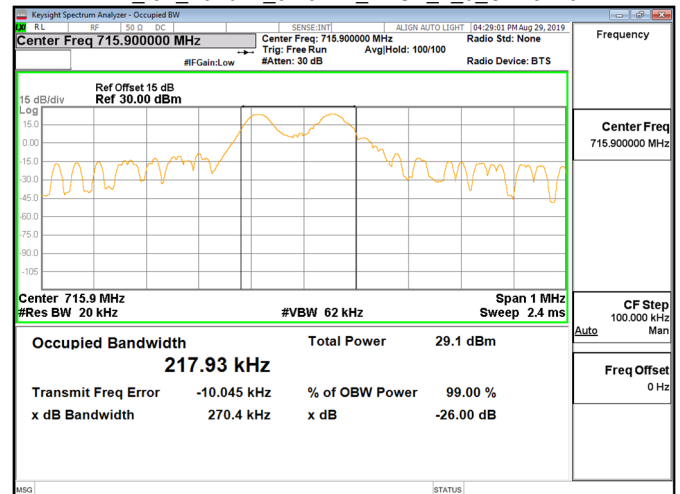
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NB_IoT_Band5_15kHz_QPSK_12_0_CH20649



NB_IoT_Band12_3.75kHz_BPSK_1_0_CH23179



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