



TEST REPORT

APPLICANT : Reliance Communications LLC

PRODUCT NAME : Orbic Myra

MODEL NAME : R678L5S6

BRAND NAME : Orbic

FCC ID : 2ABGH-R678L5S6

STANDARD(S) : 47 CFR Part 2
47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27, Subpart D&L&M

RECEIPT DATE : 2020-11-05

TEST DATE : 2020-11-06 to 2021-02-09

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Edited by: Li Huaijie
Li Huaijie (Rapporteur)

Approved by: Shen Junsheng
Shen Junsheng (Supervisor)

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Change History		
Version	Date	Reason for change
1.0	2022-08-08	First edition



1. Technical Information

Note: Provide by applicant.

1.1.Applicant and Manufacturer Information

Applicant:	Reliance Communications LLC
Applicant Address:	1560 Fifth Ave BayShore, NY 11706
Manufacturer:	ZJY RIGHT SOURCE INDIA PRIVATE LIMITED
Manufacturer Address:	MIDC industrial Area, Shiravane, Nerul,India

1.2.Equipment Under Test (EUT) Description

Product Name:	Orbic Myra	
Hardware Version:	V2.2	
Software Version:	ORB678L5S6_v1.0.68_BVT-NA	
IMEI:	35775889	
Modulation Type:	QPSK, 16QAM,64QAM	
Operation Band:	Uplink:2A_4A; 2A_5A; 2A_12A; 2A_13A; 2A_66A; 4A_5A; 4A_12A; 4A_13A; 5A_66A; 13A_66A; 5B; 66B; 66C	
Channel Bandwidth	LTE 2A_4A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 2A_5A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 2A_12A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 2A_13A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 2A_66A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 4A_5A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 4A_12A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 4A_13A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 5A_66A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 13A_66A	5MHz, 10MHz, 15MHz, 20MHz
	LTE 5B	5MHz, 10MHz, 15MHz, 20MHz
	LTE 66B	5MHz, 10MHz, 15MHz, 20MHz
	LTE 66C	5MHz, 10MHz, 15MHz, 20MHz



Antenna Type:	Fixed Internal	
Antenna Gain:	LTE Band 2	-0.28 dBi
	LTE Band 4	-1.55 dBi
	LTE Band 5	-1.57 dBi
	LTE Band 12	-1.77 dBi
	LTE Band 13	-1.52 dBi
	LTE Band 66	-1.55 dBi
Accessory Information:	AC Adapter	
	Brand Name:	Orbic
	Model No.:	BLJ-QC06HU
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-240V~ 50/60HZ, 0.50A
	Rated Output:	5---3A;9---2A; 12---1.5A
	Manufacturer:	Baolijin
	Battery	
	Brand Name:	Orbic
	Model No.:	BLE-5001
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	5000.00mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.40V
	Manufacturer:	HUIZHOU DXDRAGON INC

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.3.Maximum ERP/EIRP and Emission Designator

Top antenna

Channel bandwidth	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE 5B (Top antenna)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10+10	0.169	0.147	0.113	18M7G7D	/	/
LTE 5B (Bottom antenna)	QPSK	16QAM	64QAM	/	/	/
10+10	0.142	0.138	0.141	/	/	/
LTE 66B	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20+20	0.059	0.050	0.052	18M2G7D	/	/
LTE 66C	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20+20	0.061	0.052	0.052	38M4G7D	/	/
LTE 2A-4A	0.177	/	/	/	/	/
LTE 2A-5A	0.171	/	/	/	/	/
LTE 2A-12A (Top antenna)	0.143	/	/	/	/	/
LTE 2A-12A (Bottom antenna)	0.169	/	/	/	/	/
LTE 2A-13A (Top antenna)	0.199	/	/	/	/	/
LTE 2A-13A (Bottom antenna)	0.158	/	/	/	/	/
LTE 2A-66A	0.117	/	/	/	/	/
LTE 4A-5A	0.184	/	/	/	/	/
LTE 4A-12A (Top antenna)	0.231	/	/	/	/	/
LTE 4A-12A (Bottom antenna)	0.170	/	/	/	/	/
LTE 4A-13A (Top antenna)	0.186	/	/	/	/	/
LTE 4A-13A (Bottom antenna)	0.201	/	/	/	/	/
LTE 5A-66A	0.209	/	/	/	/	/
LTE 13A-66A	0.147	/	/	/	/	/



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24 and Part 27 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services



Test detailed items/section required by FCC rules and results are as below:

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046, 22.913(a)(2), 24.232(c), 27.50	Transmitter Conducted Output Power and ERP/EIRP	Nov 6 to 25, 2020	Tang Jinde	PASS	No deviation
2.1049	Occupied Bandwidth	Jan20 to Feb 9, 2021	Tang Jinde	PASS	No deviation
2.1055, 22.355, 24.235, 27.54	Frequency Stability	Dec1 to 19, 2020	Tang Jinde	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53	Conducted Spurious Emissions	Dec19 to 30, 2020	Tang Jinde	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53	Band Edge	Jan 1 to 19, 2021	Tang Jinde	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53	Radiated Spurious Emissions	Dec5 to 29, 2020	Peng Xuwei	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 23.5dB contains two parts that cable loss 13.5dB and Attenuator 10dB.

Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.



1.5.Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

2.47 CFR Part 2, 22H, 24E and 27D&L&M Requirements

2.1. Transmitter Conducted Output Power And ERP/EIPR

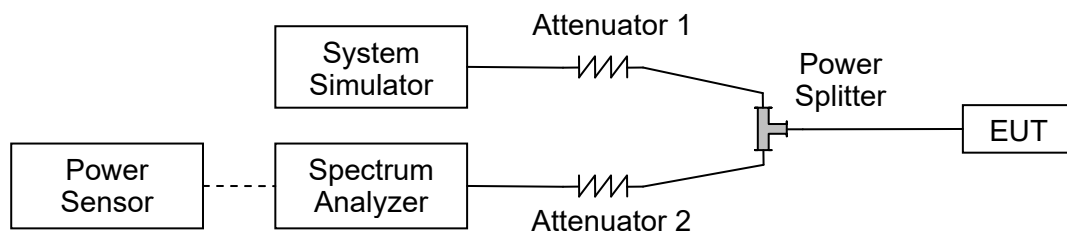
2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 22.913 (a.2) for LTE Band 5, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (h) for LTE Band 41, Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

2.1.2. Test Descript



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

$EIRP \text{ (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$



ERP (dBm) = EIPR (dBm) - 2.15

2.1.4. Result

Conducted Output Power

CA_5B (Top antenna)								
Combination:10MHz+10MHz(50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
			RB Size	RB Offset	RB Size	RB Offset		
20450	20549	QPSK	1	0	0	0	1	24.21
20525	20575	QPSK	1	0	0	0	1	24.27
20600	20600	QPSK	1	0	0	0	1	24.12
20450	20549	16QAM	1	0	0	0	1	23.66
20525	20575	16QAM	1	0	0	0	1	23.44
20600	20600	16QAM	1	0	0	0	1	23.31
20450	20549	64QAM	1	0	0	0	1	22.38
20525	20575	64QAM	1	0	0	0	1	22.47
20600	20600	64QAM	1	0	0	0	1	22.52
20450	20549	QPSK	25	0	0	0	1	23.45
20525	20575	QPSK	25	0	0	0	1	23.23
20600	20600	QPSK	25	0	0	0	1	23.42



CA_5B (Bottom antenna)							
Combination:10MHz+10MHz(50RB+50RB)							
SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
		RB Size	RB Offset	RB Size	RB Offset		
20549	QPSK	1	0	0	0	1	23.45
20575	QPSK	1	0	0	0	1	23.52
20600	QPSK	1	0	0	0	1	23.38
20549	16QAM	1	0	0	0	1	22.98
20575	16QAM	1	0	0	0	1	23.01
20600	16QAM	1	0	0	0	1	23.39
20549	64QAM	1	0	0	0	1	23.30
20575	64QAM	1	0	0	0	1	23.49
20600	64QAM	1	0	0	0	1	23.12
20549	QPSK	25	25	0	0	1	22.63
20575	QPSK	25	25	0	0	1	22.57
20600	QPSK	25	25	0	0	1	22.36



CA_66B							
Combination:20MHz+20MHz(50RB+50RB)							
SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
		RB Size	RB Offset	RB Size	RB Offset		
132121	QPSK	1	0	0	0	1	22.42
132472	QPSK	1	0	0	0	1	22.39
132622	QPSK	1	0	0	0	1	22.63
132121	16QAM	1	0	0	0	1	22.27
132472	16QAM	1	0	0	0	1	22.30
132622	16QAM	1	0	0	0	1	22.20
132121	64QAM	1	0	0	0	1	22.39
132472	64QAM	1	0	0	0	1	22.33
132622	64QAM	1	0	0	0	1	22.51
132472	QPSK	50	0	0	0	1	21.41
132622	QPSK	50	0	0	0	1	21.54



CA_66C								
Combination:20MHz+20MHz(100RB+100RB)								
SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)
		RB Size	RB Offset	RB Size	RB Offset			
132270	QPSK	1	0	0	0	1	0	22.82
132521	QPSK	1	0	0	0	1	0	22.89
132572	QPSK	1	0	0	0	1	0	22.73
132270	16QAM	1	0	0	0	1	0	22.21
132521	16QAM	1	0	0	0	1	0	22.14
132572	16QAM	1	0	0	0	1	0	22.09
132270	64QAM	1	0	0	0	1	0	22.21
132521	64QAM	1	0	0	0	1	0	22.13
132572	64QAM	1	0	0	0	1	0	22.18
132270	QPSK	50	0	0	0	1	0	21.84
132521	QPSK	50	0	0	0	1	0	21.92
132572	QPSK	50	0	0	0	1	0	21.73



Configure	CA Configuration	PCC				
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)
Inter-band	CA_2A-4A	2	20	19100	1900	QPSK/1#0
	CA_2A-5A	4	20	19100	1900	QPSK/1#0
	CA_2A-12A (Top antenna)	2	20	19100	1900	QPSK/1#0
	CA_2A-12A (Bottom antenna)	2	20	19100	1900	QPSK/1#0
	CA_2A-13A (Top antenna)	4	20	19100	1900	QPSK/1#0
	CA_2A-13A (Bottom antenna)	4	20	19100	1900	QPSK/1#0
	CA_2A-66A	2	20	19100	1900	QPSK/1#0
	CA_4A-5A	4	20	20175	1732.5	QPSK/1#0
	CA_4A-12A (Top antenna)	2	20	20175	1732.5	QPSK/1#0
	CA_4A-12A (Bottom antenna)	2	20	20175	1732.5	QPSK/1#0
	CA_4A-13A (Top antenna)	4	20	20175	1732.5	QPSK/1#0
	CA_4A-13A (Bottom antenna)	4	20	20175	1732.5	QPSK/1#0
	CA_5A-66A	5	20	20525	836.5	QPSK/1#0
	CA_12A-66A	12	10	23060	704	QPSK/1#0
	CA_13A-66A	13	10	23230	782	QPSK/1#0

SCC			Power	
Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Measured Power(dBm)
4	20	20175	1732.5	24.02
5	20	20525	836.5	23.89
12 (Top antenna)	10	23060	704	23.33
12 (Bottom antenna)	10	23060	704	24.06



13 (Top antenna)	10	23230	782	24.51
13 (Bottom antenna)	10	23230	782	23.51
66	20	132322	1745	22.23
5	20	20525	836.5	24.22
12 (Top antenna)	10	23060	704	25.40
12 (Bottom antenna)	10	23060	704	24.08
13 (Top antenna)	10	23230	782	24.21
13 (Bottom antenna)	10	23230	782	24.55
66	20	132322	1745	24.75
66	20	132322	1745	23.21
66	20	132322	1745	23.62



Effective Radiated Power and Effective Isotropic Radiated Power

CA_5B (Top antenna)									
Combination:10MHz+10MHz(50RB+50RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Measured ERP(W)
			RB Size	RB Offset	RB Size	RB Offset			
20450	20549	QPSK	1	0	0	0	1	24.21	0.166
20525	20575	QPSK	1	0	0	0	1	24.27	0.169
20600	20600	QPSK	1	0	0	0	1	24.12	0.163
20450	20549	16QAM	1	0	0	0	1	23.66	0.147
20525	20575	16QAM	1	0	0	0	1	23.44	0.139
20600	20600	16QAM	1	0	0	0	1	23.31	0.135
20450	20549	64QAM	1	0	0	0	1	22.38	0.109
20525	20575	64QAM	1	0	0	0	1	22.47	0.111
20600	20600	64QAM	1	0	0	0	1	22.52	0.113
20450	20549	QPSK	25	0	0	0	1	23.45	0.140
20525	20575	QPSK	25	0	0	0	1	23.23	0.133
20600	20600	QPSK	25	0	0	0	1	23.42	0.139



CA_5B (Bottom antenna)								
Combination:10MHz+10MHz(50RB+50RB)								
SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Measured ERP(W)
		RB Size	RB Offset	RB Size	RB Offset			
20549	QPSK	1	0	0	0	1	23.45	0.140
20575	QPSK	1	0	0	0	1	23.52	0.142
20600	QPSK	1	0	0	0	1	23.38	0.137
20549	16QAM	1	0	0	0	1	22.98	0.125
20575	16QAM	1	0	0	0	1	23.01	0.126
20600	16QAM	1	0	0	0	1	23.39	0.138
20549	64QAM	1	0	0	0	1	23.30	0.135
20575	64QAM	1	0	0	0	1	23.49	0.141
20600	64QAM	1	0	0	0	1	23.12	0.129
20549	QPSK	25	25	0	0	1	22.63	0.116
20575	QPSK	25	25	0	0	1	22.57	0.114
20600	QPSK	25	25	0	0	1	22.36	0.109



CA_66B								
Combination:20MHz+20MHz(50RB+50RB)								
SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Measured EIRP(W)
		RB Size	RB Offset	RB Size	RB Offset			
132121	QPSK	1	0	0	0	1	22.42	0.059
132472	QPSK	1	0	0	0	1	22.39	0.059
132622	QPSK	1	0	0	0	1	22.63	0.057
132121	16QAM	1	0	0	0	1	22.27	0.050
132472	16QAM	1	0	0	0	1	22.30	0.050
132622	16QAM	1	0	0	0	1	22.20	0.050
132121	64QAM	1	0	0	0	1	22.39	0.051
132472	64QAM	1	0	0	0	1	22.33	0.051
132622	64QAM	1	0	0	0	1	22.51	0.052
132472	QPSK	50	0	0	0	1	21.41	0.049
132622	QPSK	50	0	0	0	1	21.54	0.048



CA_66C								
Combination:20MHz+20MHz(100RB+100RB)								
SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Measured EIRP(W)
		RB Size	RB Offset	RB Size	RB Offset			
132270	QPSK	1	0	0	0	1	22.82	0.060
132521	QPSK	1	0	0	0	1	22.89	0.061
132572	QPSK	1	0	0	0	1	22.73	0.059
132270	16QAM	1	0	0	0	1	22.21	0.052
132521	16QAM	1	0	0	0	1	22.14	0.051
132572	16QAM	1	0	0	0	1	22.09	0.051
132270	64QAM	1	0	0	0	1	22.21	0.052
132521	64QAM	1	0	0	0	1	22.13	0.051
132572	64QAM	1	0	0	0	1	22.18	0.052
132270	QPSK	50	0	0	0	1	21.84	0.048
132521	QPSK	50	0	0	0	1	21.92	0.049
132572	QPSK	50	0	0	0	1	21.73	0.047



Configure	CA Configuration	PCC				
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)
Inter-band	CA_2A-4A	2	20	19100	1900	QPSK/1#0
	CA_2A-5A	4	20	19100	1900	QPSK/1#0
	CA_2A-12A	2	20	19100	1900	QPSK/1#0
	CA_2A-13A	4	20	19100	1900	QPSK/1#0
	CA_2A-66A	2	20	19100	1900	QPSK/1#0
	CA_4A-5A	4	20	20175	1732.5	QPSK/1#0
	CA_4A-12A	2	20	20175	1732.5	QPSK/1#0
	CA_4A-13A	4	20	20175	1732.5	QPSK/1#0
	CA_5A-66A	5	20	20525	836.5	QPSK/1#0
	CA_12A-66A	12	10	23060	704	QPSK/1#0
	CA_13A-66A	13	10	23230	782	QPSK/1#0

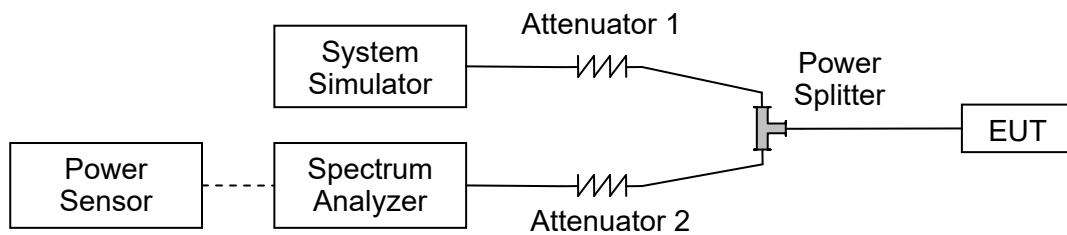
SCC			Power		
Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Measured Power(dBm)	Measured EIRP(W)
4	20	20175	1732.5	24.02	0.177
5	20	20525	836.5	23.89	0.171
12	10	23060	704	24.06	0.169
13	10	23230	782	23.51	0.158
66	20	132322	1745	22.23	0.117
5	20	20525	836.5	24.22	0.184
12	10	23060	704	24.08	0.170
13	10	23230	782	24.55	0.201
66	20	132322	1745	24.75	0.209
66	20	132322	1745	23.21	0.147
66	20	132322	1745	23.62	0.161

2.2.Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, 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 radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

2.2.4. Test Result



LTE Band 66C				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5+20	Low	QPSK	25.33	37.41
	Mid	QPSK	25.13	29.81
	High	QPSK	25.11	33.38
	Low	16QAM	25.12	33.45
	Mid	16QAM	25.12	29.87
	High	16QAM	25.05	33.05
	Low	64QAM	24.99	29.65
	Mid	64QAM	25.12	28.94
	High	64QAM	25.08	30.02
10+15	Low	QPSK	25.34	31.77
	Mid	QPSK	25.27	31.90
	High	QPSK	25.80	36.58
	Low	16QAM	24.65	29.33
	Mid	16QAM	24.90	37.97
	High	16QAM	25.40	38.24
	Low	64QAM	25.04	34.20
	Mid	64QAM	24.88	30.41
	High	64QAM	25.11	33.77
10+20	Low	QPSK	29.56	35.23
	Mid	QPSK	29.60	35.35
	High	QPSK	25.13	29.81
	Low	16QAM	29.30	34.02
	Mid	16QAM	29.42	39.29
	High	16QAM	29.86	40.67
	Low	64QAM	29.32	34.26
	Mid	64QAM	29.31	33.44
	High	64QAM	29.41	34.05
15+10	Low	QPSK	25.02	29.82
	Mid	QPSK	24.97	29.80
	High	QPSK	25.96	34.42
	Low	16QAM	24.62	29.79
	Mid	16QAM	24.76	29.87
	High	16QAM	25.65	36.48
	Low	64QAM	24.83	30.70
	Mid	64QAM	24.53	29.47
	High	64QAM	24.84	35.06



15+15	Low	QPSK	29.29	36.15
	Mid	QPSK	29.45	41.82
	High	QPSK	29.66	35.73
	Low	16QAM	29.20	39.21
	Mid	16QAM	29.24	34.05
	High	16QAM	29.59	34.95
	Low	64QAM	29.19	34.18
	Mid	64QAM	29.34	47.98
	High	64QAM	29.35	35.08
15+20	Low	QPSK	33.54	38.41
	Mid	QPSK	33.63	46.10
	High	QPSK	33.70	38.93
	Low	16QAM	33.45	37.77
	Mid	16QAM	33.59	44.53
	High	16QAM	33.55	38.27
	Low	64QAM	33.18	36.30
	Mid	64QAM	33.39	45.94
	High	64QAM	33.57	38.01
20+5	Low	QPSK	25.01	38.84
	Mid	QPSK	24.79	29.28
	High	QPSK	25.02	29.82
	Low	16QAM	24.80	29.32
	Mid	16QAM	24.75	29.49
	High	16QAM	24.93	29.94
	Low	64QAM	24.46	29.00
	Mid	64QAM	24.77	29.21
	High	64QAM	25.05	29.43
20+10	Low	QPSK	28.77	33.45
	Mid	QPSK	28.39	32.81
	High	QPSK	29.31	34.20
	Low	16QAM	28.59	33.78
	Mid	16QAM	28.34	32.11
	High	16QAM	29.08	34.66
	Low	64QAM	28.59	33.94
	Mid	64QAM	28.35	32.22
	High	64QAM	28.84	33.70
20+15	Low	QPSK	33.45	38.81
	Mid	QPSK	33.49	41.67



	High	QPSK	33.66	39.37
	Low	16QAM	33.42	38.41
	Mid	16QAM	33.34	38.81
	High	16QAM	33.58	38.76
	Low	64QAM	33.33	37.83
	Mid	64QAM	33.35	37.91
	High	64QAM	33.49	38.08
20+20	Low	QPSK	38.23	43.68
	Mid	QPSK	38.44	47.77
	High	QPSK	38.41	47.48
	Low	16QAM	38.23	42.77
	Mid	16QAM	38.40	45.70
	High	16QAM	38.31	44.71
	Low	64QAM	38.18	42.47
	Mid	64QAM	38.28	48.22
	High	64QAM	38.26	51.31



LTE Band 66B				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5+5	Low	QPSK	9.28	9.75
	Mid	QPSK	9.26	9.73
	High	QPSK	9.26	9.71
	Low	16QAM	9.23	9.72
	Mid	16QAM	9.24	9.72
	High	16QAM	9.24	9.71
	Low	64QAM	9.23	9.68
	Mid	64QAM	9.21	9.71
	High	64QAM	9.23	9.72
5+10	Low	QPSK	13.87	14.50
	Mid	QPSK	13.83	14.38
	High	QPSK	13.87	14.42
	Low	16QAM	13.84	14.41
	Mid	16QAM	13.79	14.43
	High	16QAM	13.85	14.42
	Low	64QAM	13.83	14.35
	Mid	64QAM	13.83	14.34
	High	64QAM	13.82	14.37
5+15	Low	QPSK	18.12	18.71
	Mid	QPSK	18.14	18.70
	High	QPSK	18.15	18.69
	Low	16QAM	18.11	18.69
	Mid	16QAM	18.09	18.69
	High	16QAM	18.15	18.69
	Low	64QAM	18.10	18.69
	Mid	64QAM	18.07	18.69
	High	64QAM	18.11	18.69
10+5	Low	QPSK	13.82	14.37
	Mid	QPSK	13.82	14.42
	High	QPSK	13.85	14.48
	Low	16QAM	13.81	14.44
	Mid	16QAM	13.81	14.39
	High	16QAM	13.84	14.40
	Low	64QAM	13.83	13.48
	Mid	64QAM	13.83	14.45
	High	64QAM	13.88	14.54



10+10	Low	QPSK	18.71	19.40
	Mid	QPSK	18.70	19.45
	High	QPSK	18.79	19.51
	Low	16QAM	18.67	19.36
	Mid	16QAM	18.67	19.40
	High	16QAM	18.78	19.38
	Low	64QAM	18.63	19.36
	Mid	64QAM	18.69	19.43
	High	64QAM	18.76	19.44
15+5	Low	QPSK	18.10	18.85
	Mid	QPSK	18.13	18.80
	High	QPSK	18.19	18.88
	Low	16QAM	18.14	18.84
	Mid	16QAM	18.11	18.84
	High	16QAM	19.18	18.91
	Low	64QAM	18.12	18.89
	Mid	64QAM	18.08	18.81
	High	64QAM	18.18	18.98



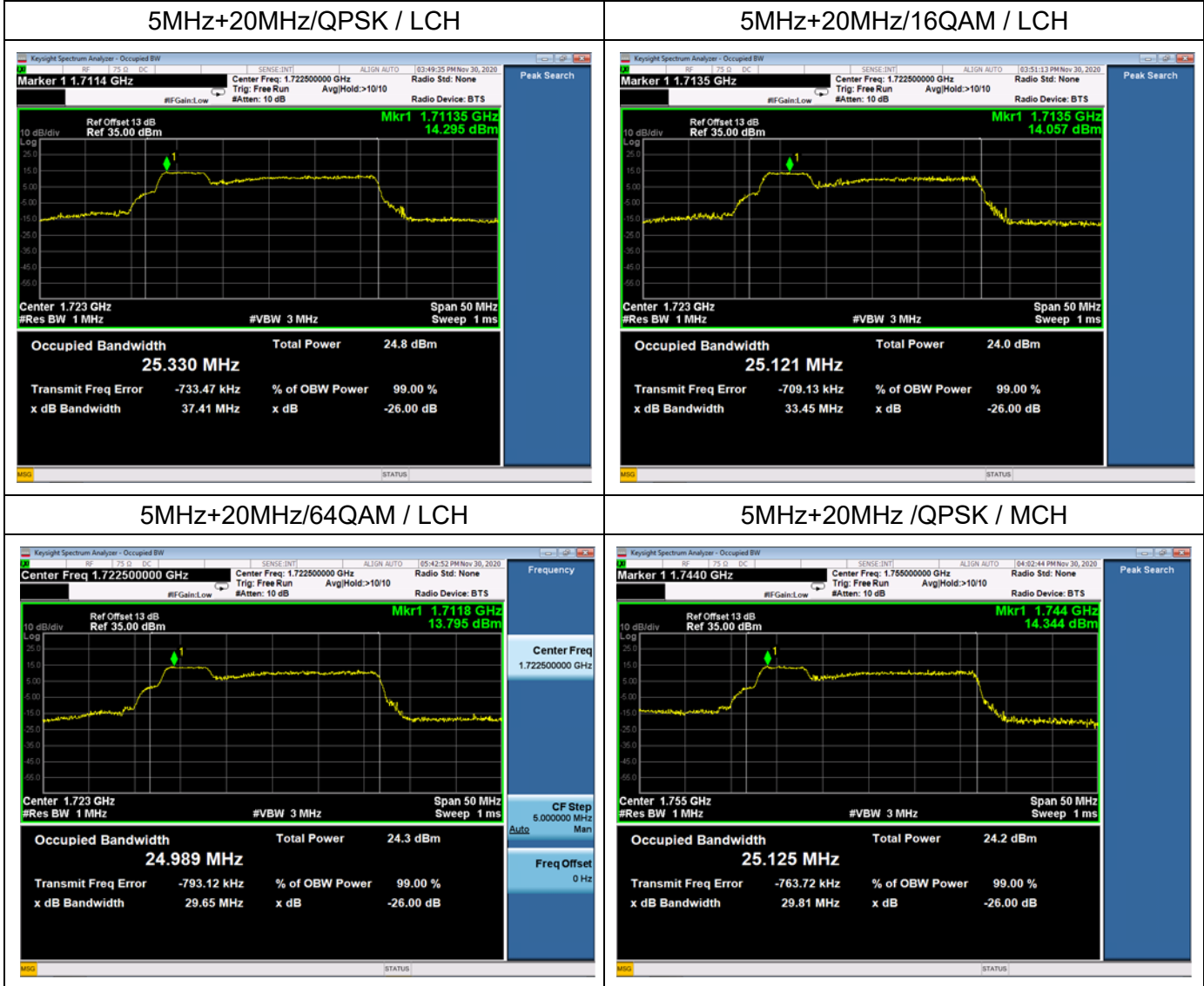
LTE Band 5B				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
3+5	Low	QPSK	7.49	7.94
	Mid	QPSK	7.49	7.92
	High	QPSK	7.48	7.89
	Low	16QAM	7.49	7.93
	Mid	16QAM	7.47	7.93
	High	16QAM	7.49	7.95
	Low	64QAM	7.46	7.86
	Mid	64QAM	7.46	8.01
	High	64QAM	7.45	8.19
5+3	Low	QPSK	7.46	7.91
	Mid	QPSK	7.48	7.94
	High	QPSK	7.45	7.87
	Low	16QAM	7.46	8.06
	Mid	16QAM	7.45	7.90
	High	16QAM	7.45	7.87
	Low	64QAM	7.49	7.91
	Mid	64QAM	7.49	7.94
	High	64QAM	7.46	7.93
5+10	Low	QPSK	13.87	14.42
	Mid	QPSK	13.87	14.34
	High	QPSK	13.81	14.37
	Low	16QAM	13.85	14.43
	Mid	16QAM	13.81	14.38
	High	16QAM	13.78	14.41
	Low	64QAM	13.81	14.35
	Mid	64QAM	13.82	14.37
	High	64QAM	13.78	14.33
10+5	Low	QPSK	13.83	14.42
	Mid	QPSK	13.85	14.44
	High	QPSK	13.83	14.46
	Low	16QAM	13.84	14.43
	Mid	16QAM	13.82	14.44
	High	16QAM	13.83	14.49
	Low	64QAM	13.86	14.46
	Mid	64QAM	13.83	14.47
	High	64QAM	13.84	14.53



10+10	Low	QPSK	18.68	19.45
	Mid	QPSK	18.69	19.41
	High	QPSK	18.69	19.42
	Low	16QAM	18.68	19.38
	Mid	16QAM	18.67	19.35
	High	16QAM	18.67	19.33
	Low	64QAM	18.68	19.33
	Mid	64QAM	18.66	19.39
	High	64QAM	18.69	19.43



LTE Band 66C





5MHz+20MHz /16QAM / MCH



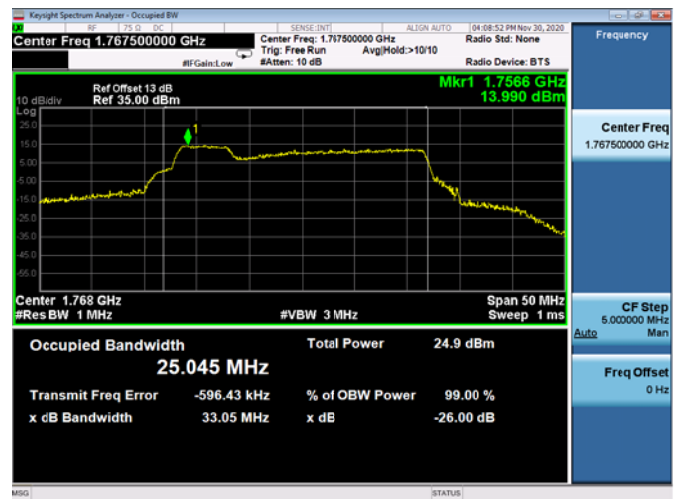
5MHz+20MHz /64QAM / MCH



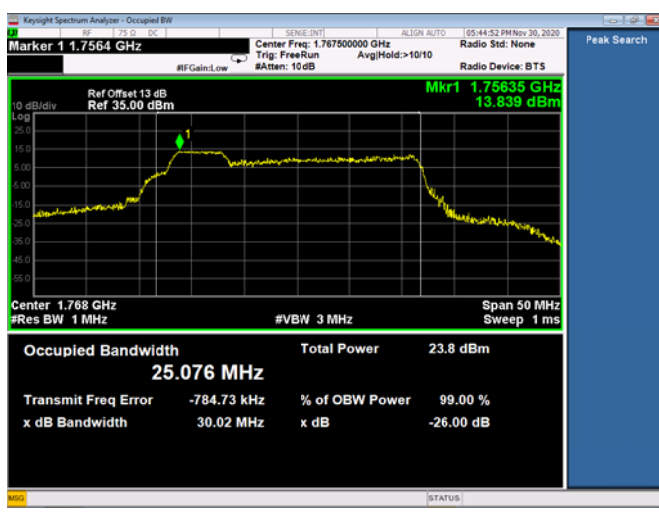
5MHz+20MHz / QPSK / HCH



5MHz+20MHz / QPSK / HCH



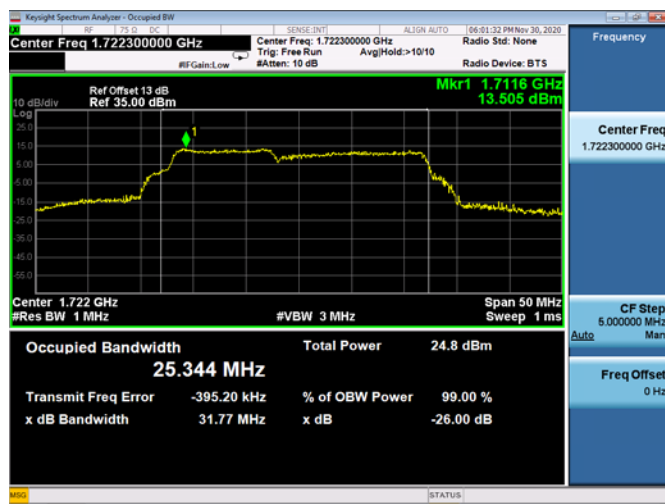
5MHz+20MHz / 64QAM / HCH





LTE Band 66C

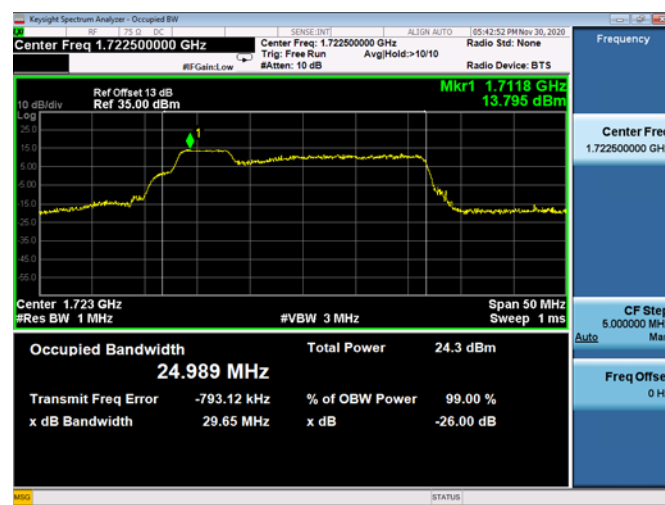
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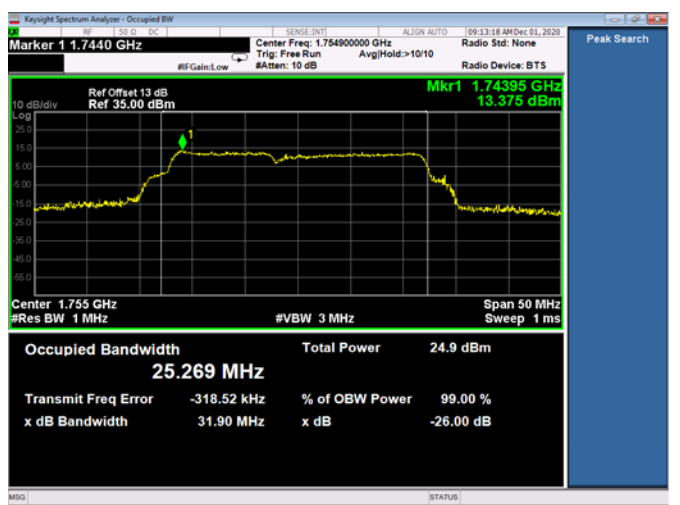
10MHz+15MHz /16QAM / LCH



10MHz+15MHz /64QAM / LCH



10MHz+15MHz / QPSK / MCH





10MHz+15MHz / 16QAM / MCH



10MHz+15MHz /64QAM / MCH



10MHz+15MHz / QPSK / HCH



10MHz+15MHz / 16QAM / HCH



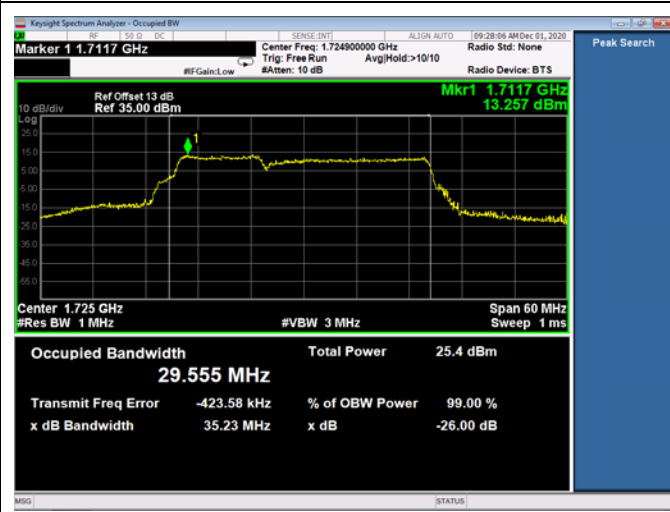
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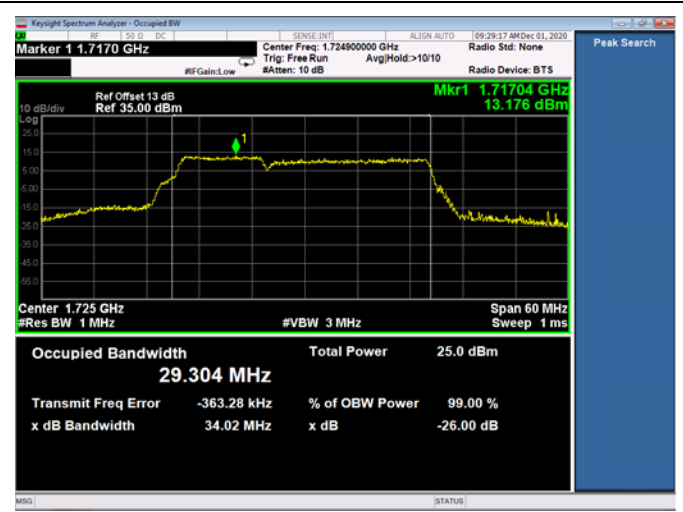


LTE Band 66C

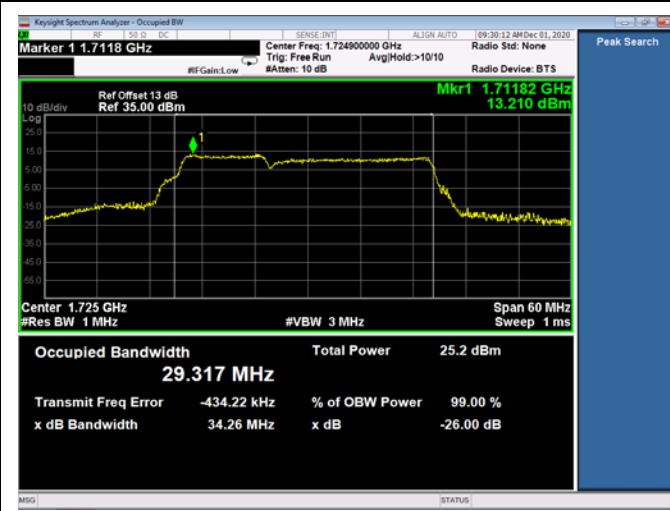
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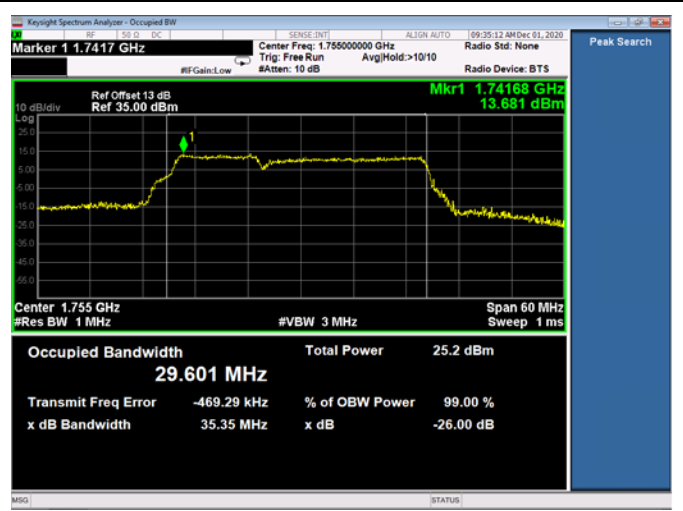
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10MHz+20MHz/64QAM / LCH



10MHz+20MHz / QPSK / MCH





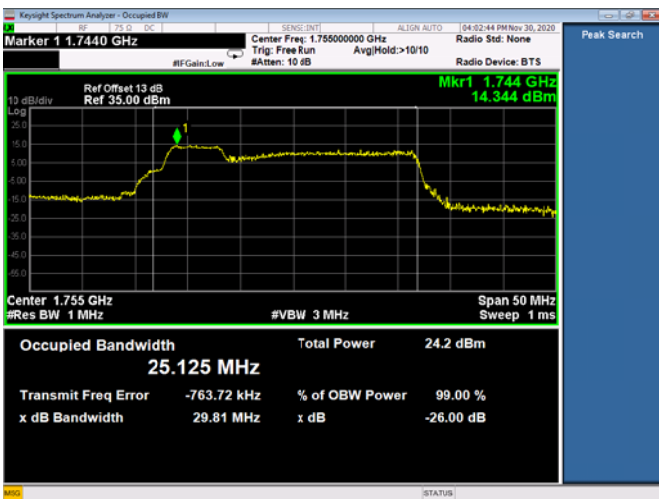
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10MHz+20MHz / 64QAM / MCH



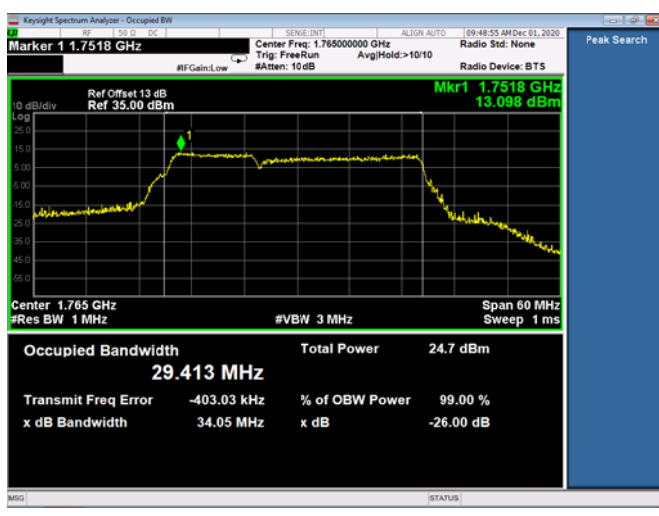
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10MHz+20MHz / 16QAM / HCH



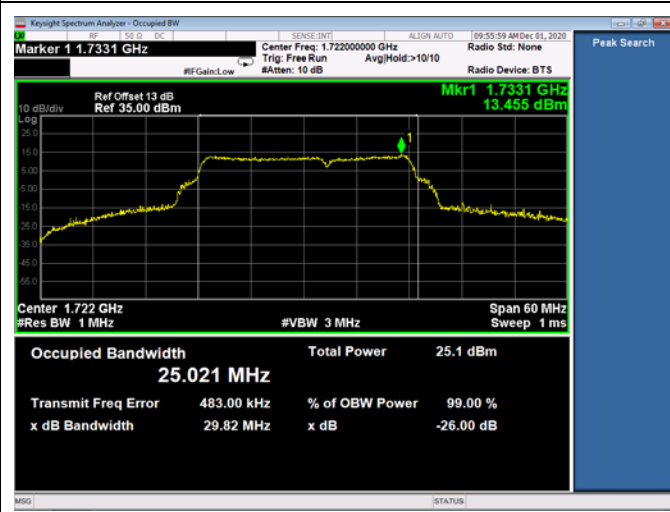
10MHz+20MHz / 64QAM / HCH





LTE Band 66C

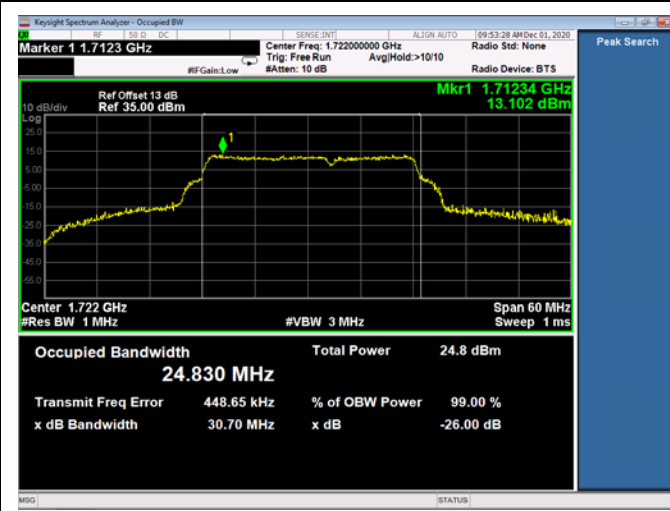
15MHz+10MHz/QPSK / LCH



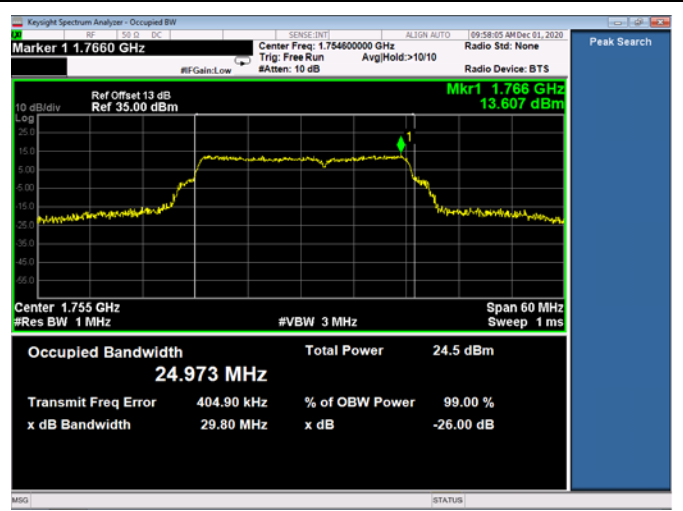
15MHz+10MHz/16QAM / LCH



15MHz+10MHz/64QAM / LCH

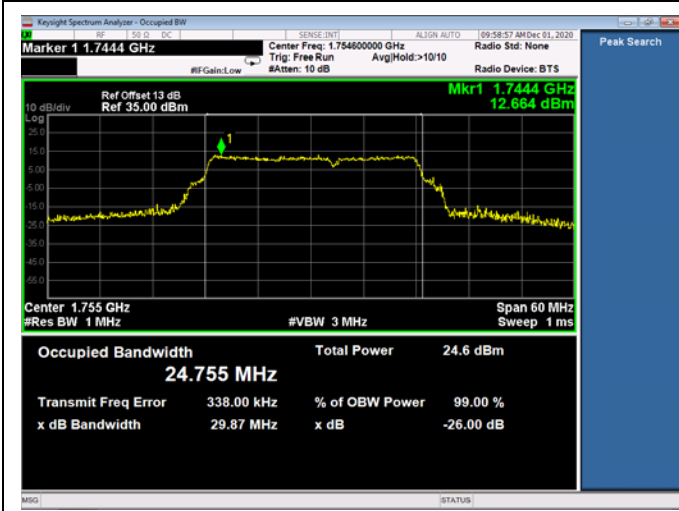


15MHz+10MHz / QPSK / MCH





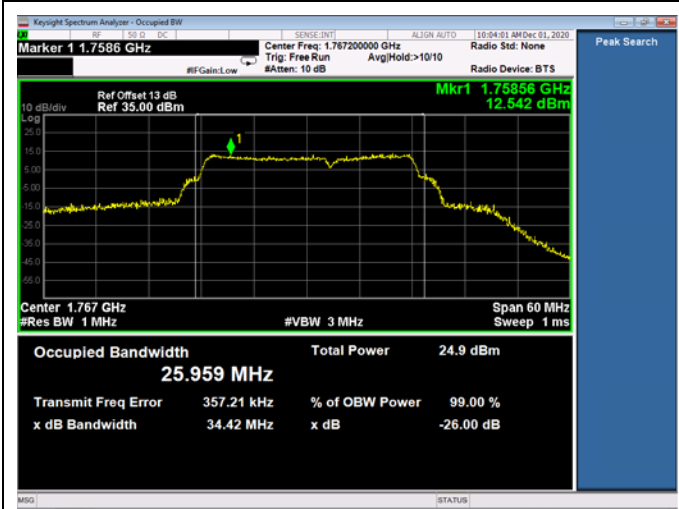
15MHz+10MHz / 16QAM / MCH



15MHz+10MHz / 64QAM / MCH



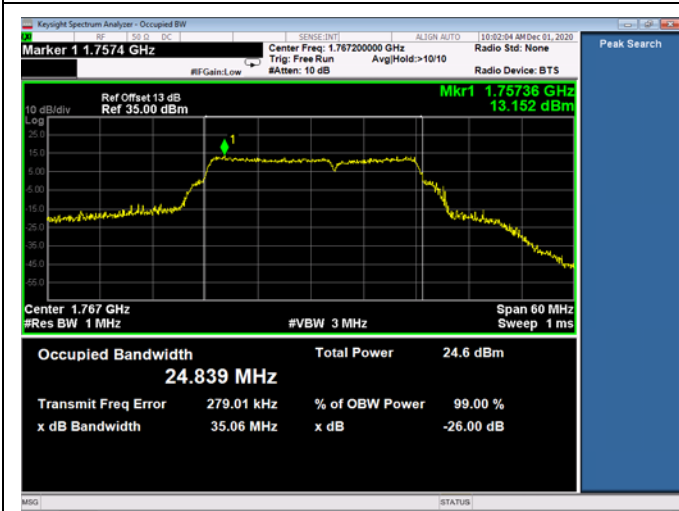
15MHz+10MHz / QPSK / HCH



15MHz+10MHz / 16QAM / HCH



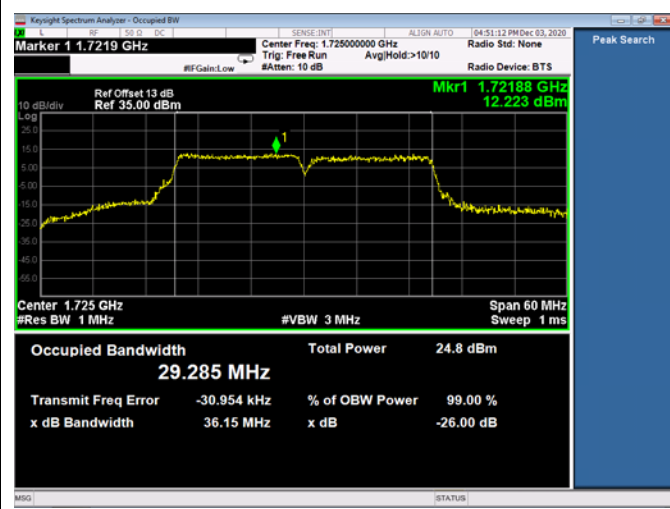
15MHz+10MHz / 64QAM / HCH



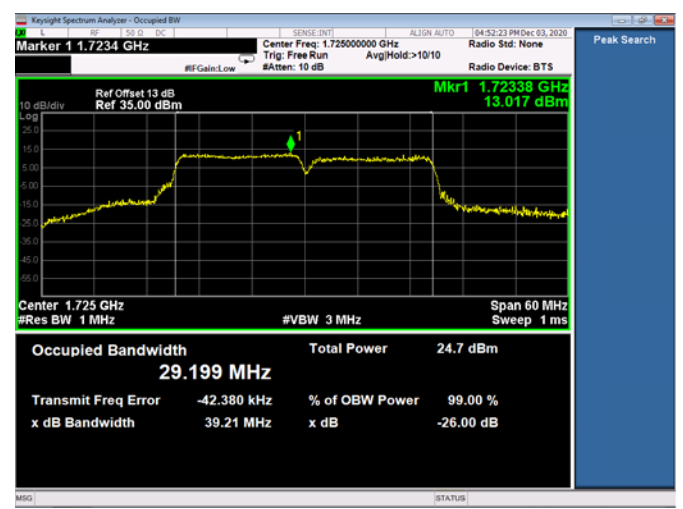


LTE Band 66C

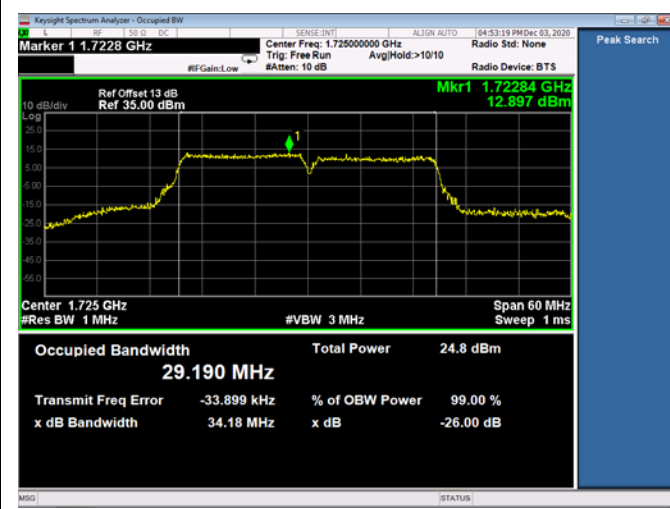
15MHz+15MHz/QPSK / LCH



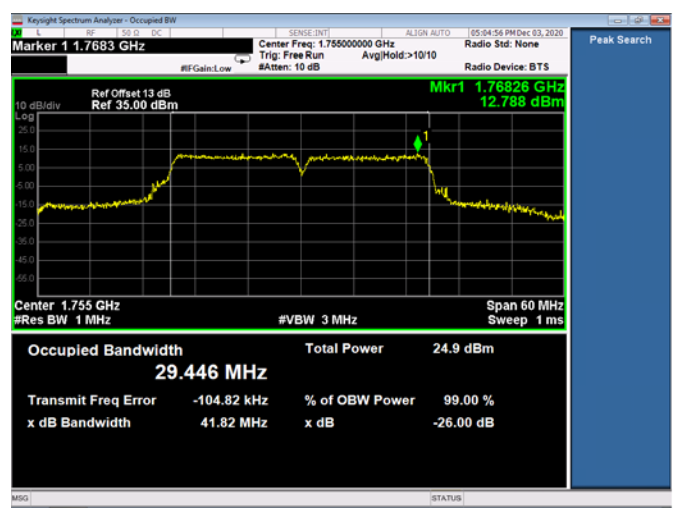
15MHz+15MHz/16QAM / LCH



15MHz+15MHz/64QAM/ LCH

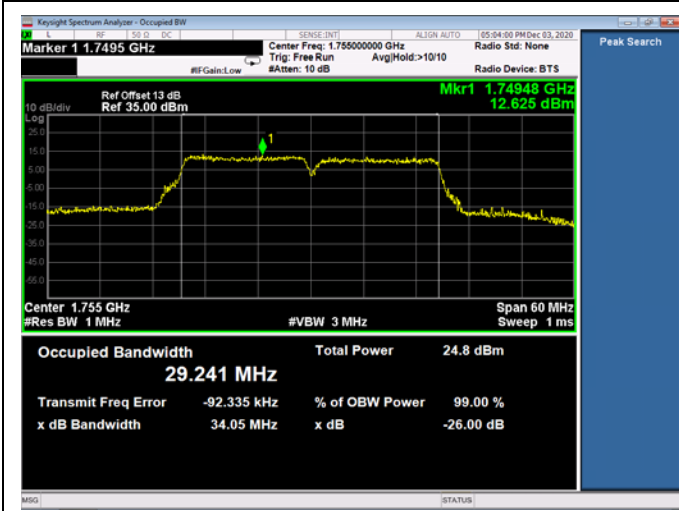


15MHz+15MHz QPSK / MCH





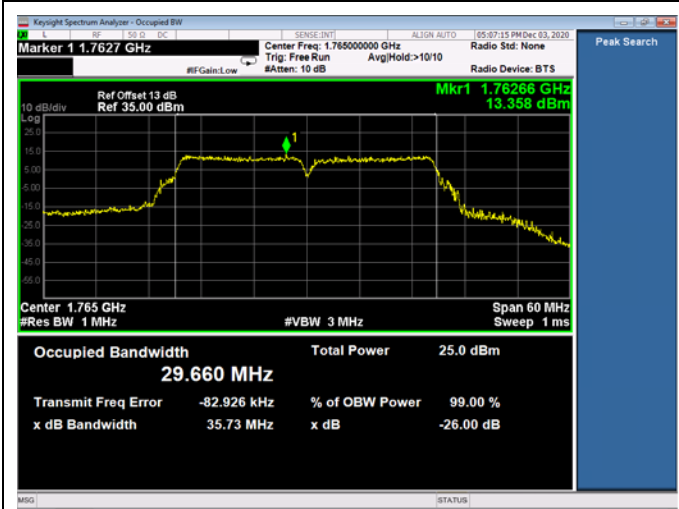
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15MHz+15MHz / 64QAM / MCH



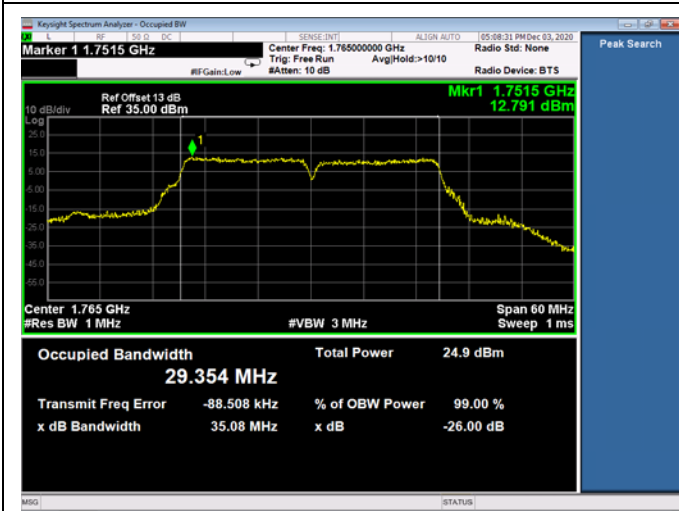
15MHz+15MHz / QPSK / HCH



15MHz+15MHz / 16QAM / HCH



15MHz+15MHz / 64QAM / HCH

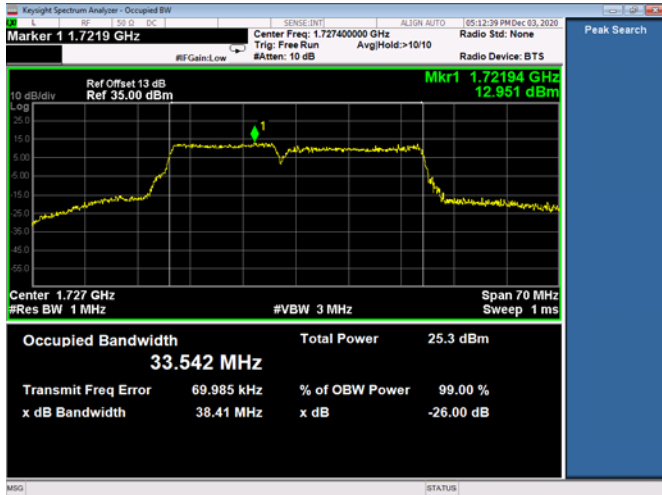




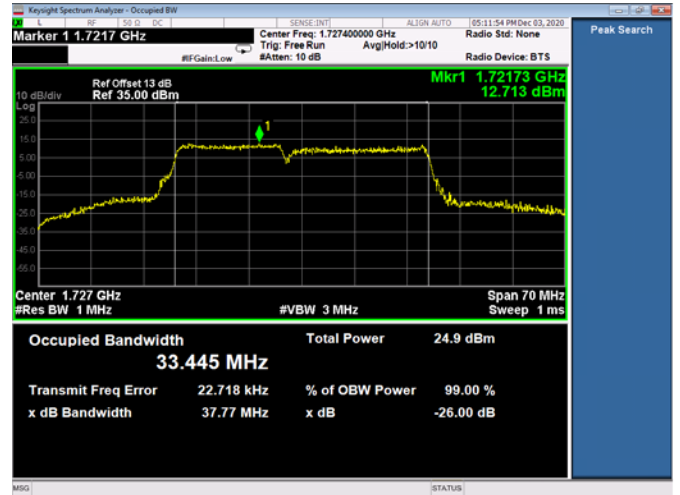
LTE Band 66C

15MHz+20MHz/QPSK / LCH

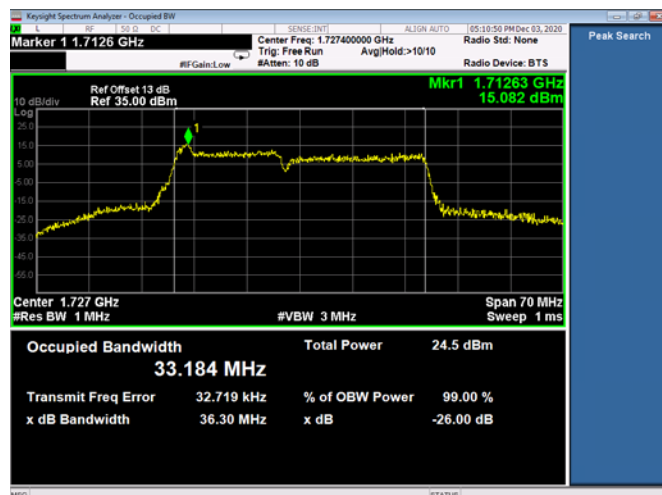
4



15MHz+20MHz/16QAM / LCH



15MHz+20MHz/64QAM / LCH

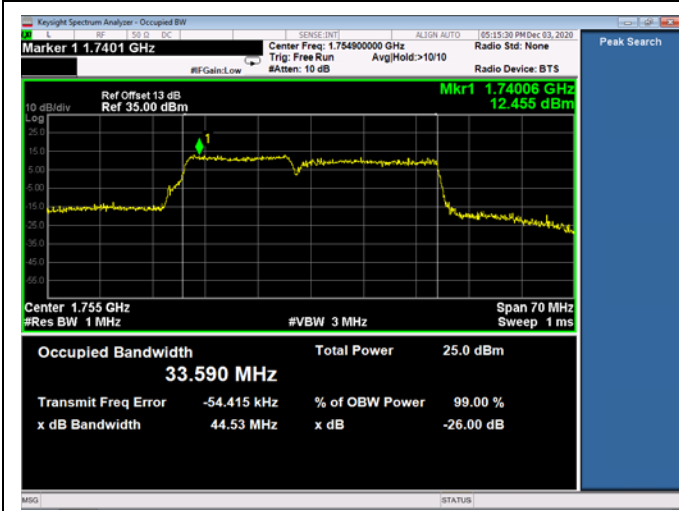


15MHz+20MHz / QPSK / MCH





15MHz+20MHz / 16QAM /MCH



15MHz+20MHz / 64QAM /MCH



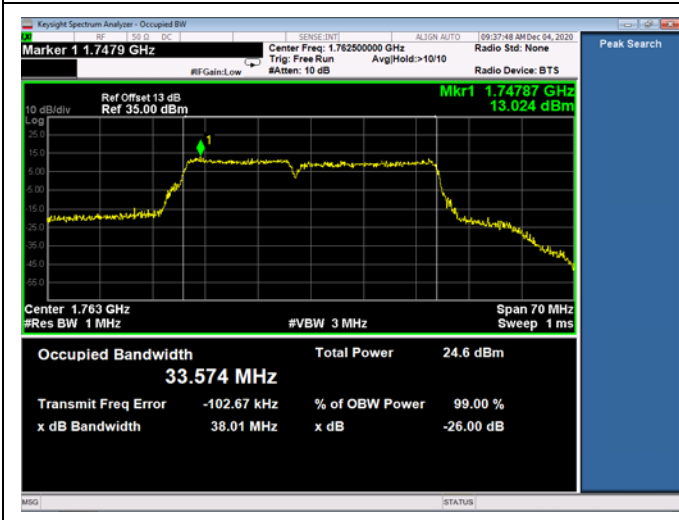
15MHz+20MHz / QPSK / HCH



15MHz+20MHz / 16QAM / HCH



15MHz+20MHz / 64QAM / HCH





LTE Band 66C

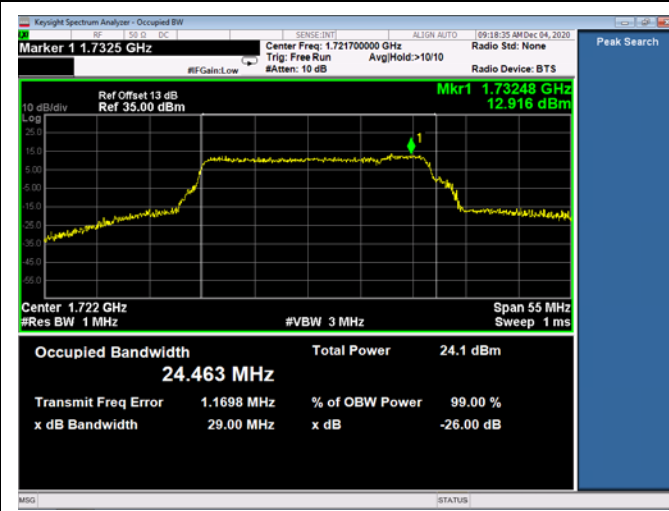
20MHz+5MHz/QPSK / LCH



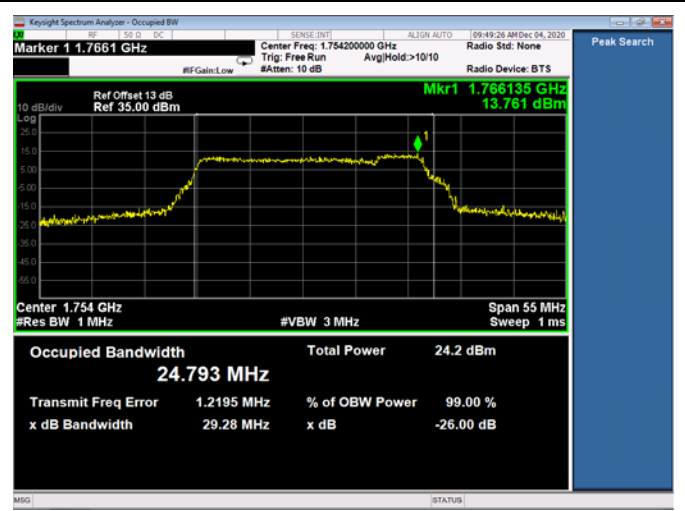
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20MHz+5MHz/64QAM / LCH

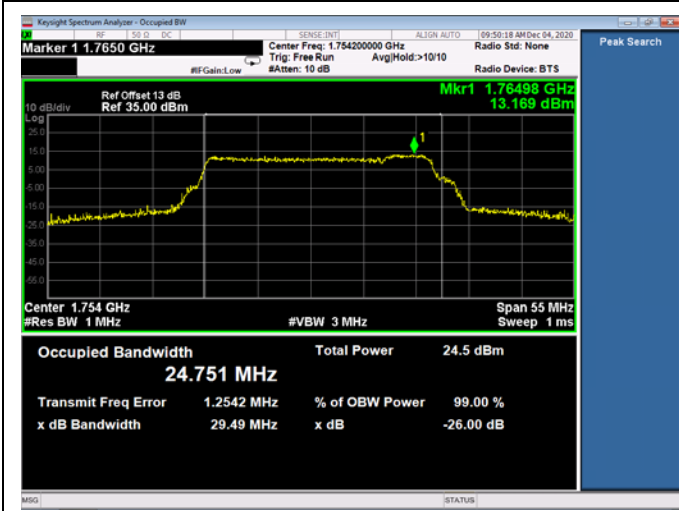


20MHz+5MHz / QPSK / MCH





20MHz+5MHz / 16QAM / MCH



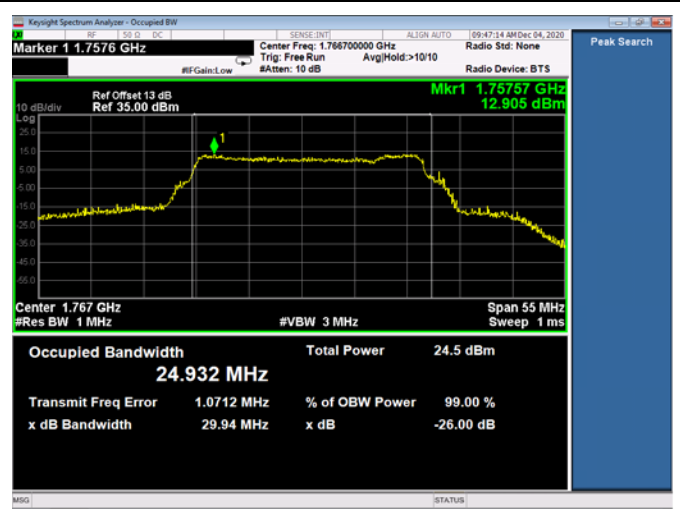
20MHz+5MHz / 64QAM / MCH



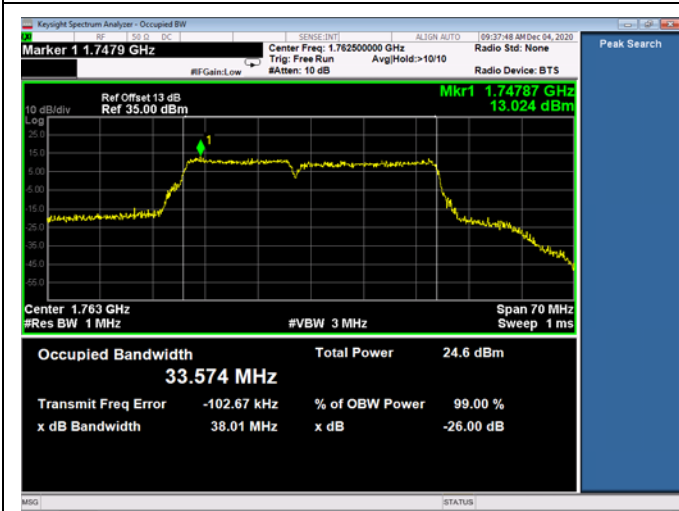
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20MHz+5MHz / 16QAM / HCH



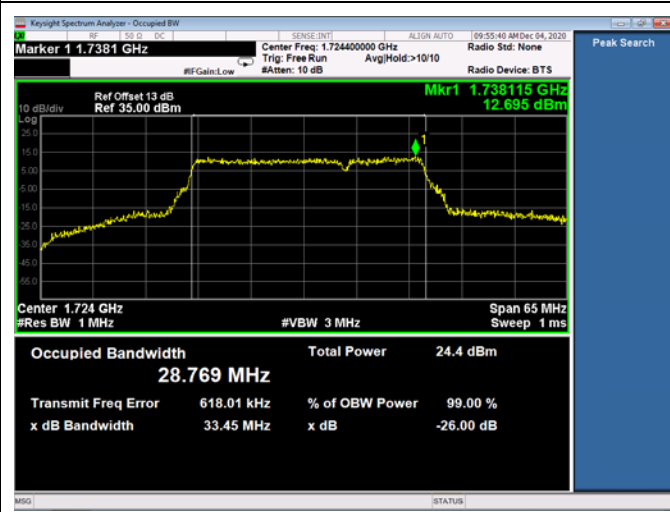
20MHz+5MHz / 64QAM / HCH





LTE Band 66C

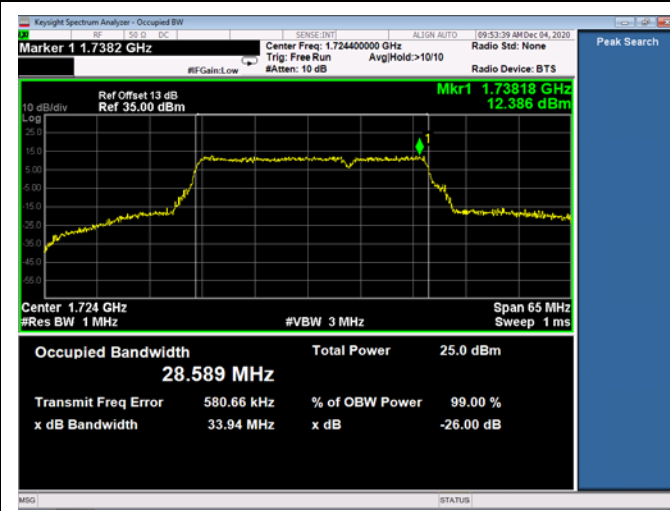
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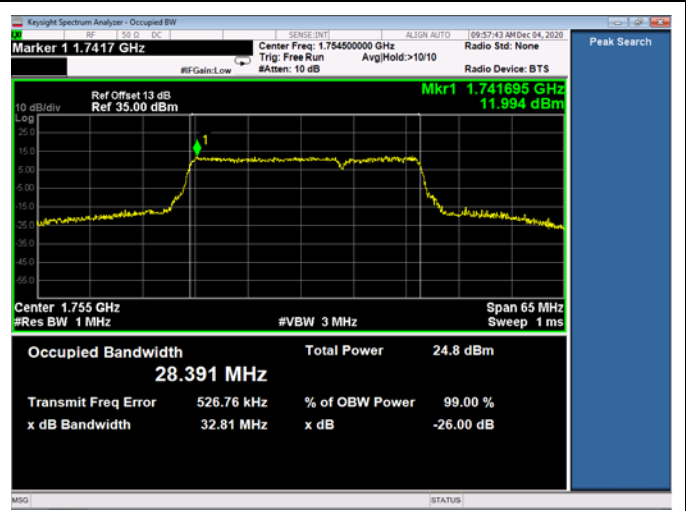
20MHz+10MHz / 16QAM / LCH



20MHz+10MHz // L64QAMCH

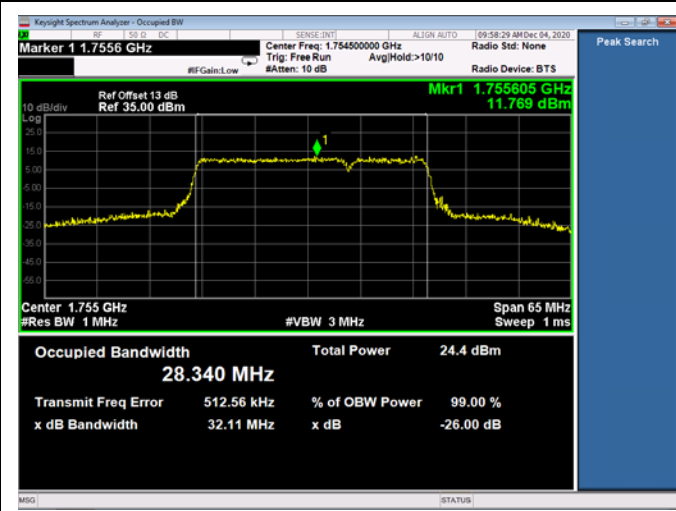


20MHz+10MHz / QPSK / MCH

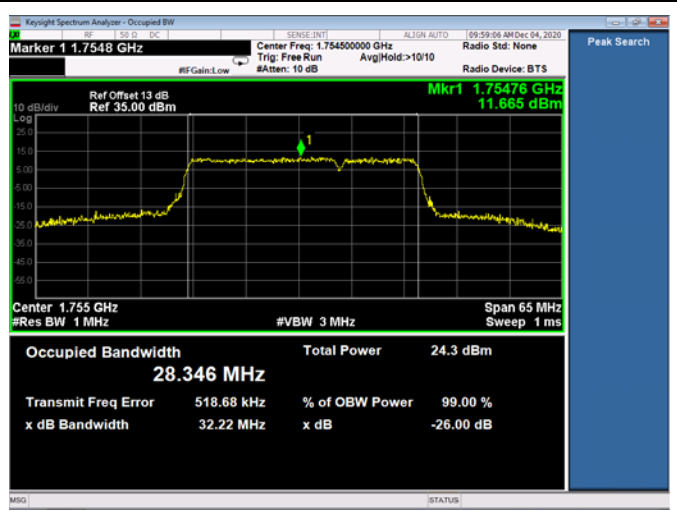




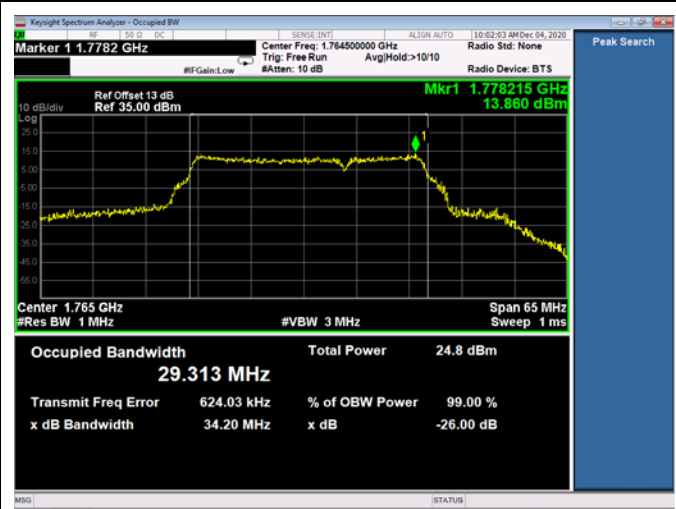
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20MHz+10MHz / 64QAM / MCH



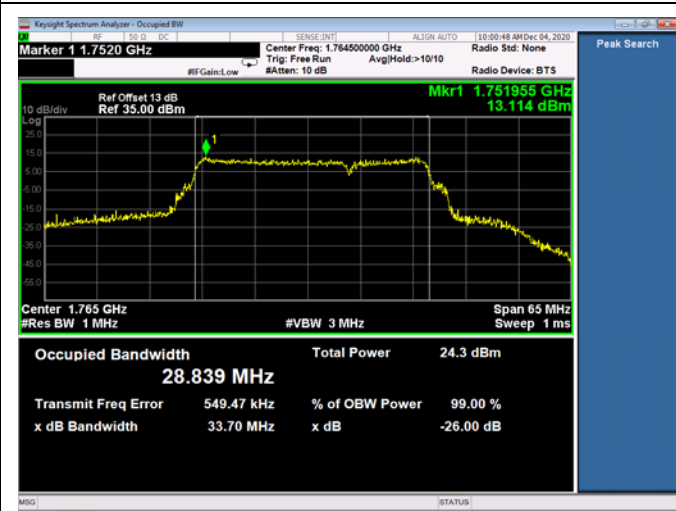
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20MHz+10MHz / 16QAM / HCH



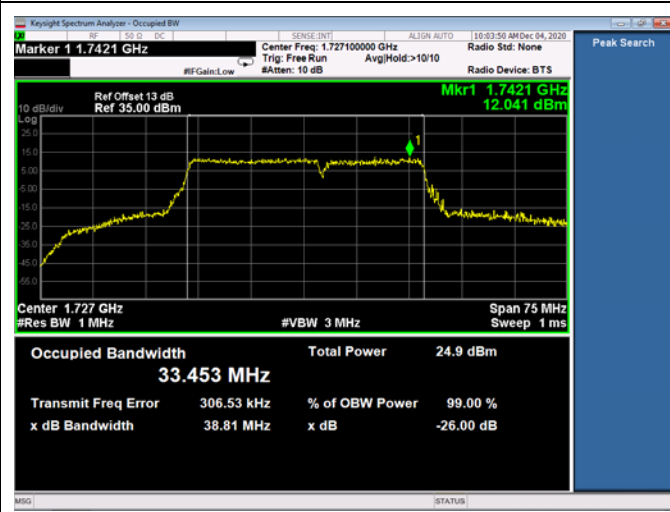
20MHz+10MHz / 64QAM / HCH





LTE Band 66C

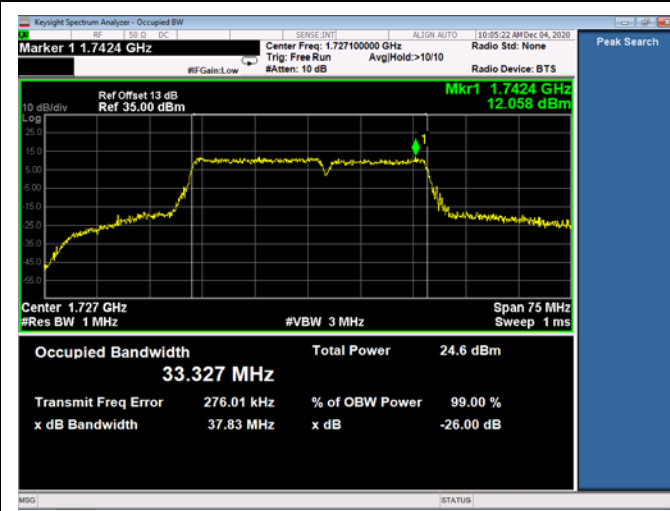
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20MHz+15MHz / 16QAM / LCH



20MHz+15MHz / 64QAM / LCH



20MHz+15MHz / QPSK / MCH

