

FCC Test Report

Product Name : LV55
Trade Name : WNC
Model No. : LVSKIHP
FCC ID : NKR-LVSK-IHP

Applicant : Wistron NeWeb Corporation
Address : 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan

Date of Receipt : May 29, 2020
Issued Date : Jul. 13, 2020
Report No. : 2050962R-E3042110012-A
Report Version : V1.0



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Test Report Certification

Issued Date : Jul. 13, 2020

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Product Name : LV55

Applicant : Wistron NeWeb Corporation

Address : 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan

Manufacturer : Wistron NeWeb Corporation

Address : 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan

Trade Name : WNC

Model No. : LVSKIHP

FCC ID : NKR-LVSK-IHP

EUT Adapter Rated Voltage : AC 100-240V / 50-60Hz


EUT Adapter Test Voltage : AC 120V / 60Hz

Applicable Standard : FCC CFR Title 47 Part 22 Subpart H
FCC CFR Title 47 Part 24 Subpart E
FCC CFR Title 47 Part 27 Subpart L, Subpart F

Test Lab : Hsin Chu Laboratory

Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 310, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958

Test Result : Complied

Documented By : 
 (Carol Tsai / Senior Engineering Adm. Specialist)

Tested By : 
 (Max Chang / Senior Engineer)

Approved By : 
 (Louis Hsu / Deputy Manager)

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Jul. 13, 2020

TABLE OF CONTENTS

Description	Page
1. General Information	6
1.1. EUT Description	6
1.2. Mode of Operation	8
1.3. Tested System Details	9
1.4. Configuration of Tested System	9
1.5. Operation Descriptions	10
1.6. Comments and Remarks	10
2. Technical Test	11
2.1. Summary of Test Result	11
2.2. List of Test Equipment	15
2.3. Measurement Uncertainty	16
2.4. Test Environment	17
3. RF Output Power	18
3.1. Test Setup	18
3.2. Test Procedure	18
3.3. Test Method	18
3.4. Test Result of Maximum Power Output	19
3.5. Maximum Conducted Power and ERP/EIRP Power	26
4. Occupied Bandwidth	30
4.1. Test Setup	30
4.2. Test Procedure	30
4.3. Test Method	30
4.4. Test Result	31
5. Peak To Average Ratio	91
5.1. Test Setup	91
5.2. Test Procedure	91
5.3. Test Method	91
5.4. Test Result	92
6. Spurious Emissions	148
6.1. Test Setup	148
6.2. Test Procedure	149
6.3. Test Method	149
6.4. Test Result	150
7. Spurious Emissions at Antenna Terminals	294
7.1. Test Setup	294

7.2. Test Procedure	294
7.3. Test Method	294
7.4. Test Result.....	295
8. Frequency Stability	377
8.1. Test Setup	377
8.2. Test Procedure	378
8.3. Test Method	378
8.4. Test Result.....	379
Attachment 1	386
Test Setup Photograph.....	386

1. General Information

1.1. EUT Description

Product Name	LV55
Model No.	LVSKIHP
Trade Name	WNC
FCC ID	NKR-LVSK-IHP
TX Frequency	LTE Band 2/ NR ENDC n2: 1850~1910MHz
	LTE Band 5/ NR ENDC n5: 824MHz ~849MHz
	LTE Band 13: 777~787MHz
	LTE Band 66/ NR ENDC n66:1710MHz~1780MHz
Rx Frequency	LTE Band 2/ NR ENDC n2: 1930~1990MHz
	LTE Band 5/ NR ENDC n5: 869~894MHz
	LTE Band 13: 746~756MHz
	LTE Band 66/ NR ENDC n66: 2110~2200MHz
ENDC list	ENDC_2A-n5, ENDC_2A-n66, ENDC_5A-n2, ENDC_5A-n66, ENDC_13A-n2, ENDC_13A-n66, ENDC_66A-n2, ENDC_66A-n5
Bandwidth	LTE Band 2: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz
	LTE Band 4: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz
	LTE Band 5: 1.4MHz/3MHz/5MHz/10MHz
	LTE Band 13: 5MHz/10MHz
	LTE Band 66:1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz
	NR ENDC n2(SCC 15KHz): 5MHz/10MHz/15MHz/20MHz
	NR ENDC n5(SCC 15KHz): 5MHz/10MHz/15MHz/20MHz
	NR ENDC n66(SCC 15KHz): 5MHz/10MHz/15MHz/20MHz
Modulation	PI/2 BPSK/QPSK/16-QAM/64QAM/256QAM
HW Version	0.0.2
SW Version	0.23.9.1dbg
IMEI No.	355806710003510

Accessories Information	
Power Adapter (1) (White/Black)	MFR: Delta, M/N: ADP-120VH D Input: AC 100-240V~2.5A, 50-60Hz Output: 20V, 6A Cable Out: Non-Shielded, 3.0m Power Cord: Non-Shielded, 2m
Power Adapter (2) (White/Black)	MFR: Delta, M/N: ADH-90AR B Input: AC 100-240V~2.0A, 50-60Hz Output: 56V, 1.61A Power Cord: Non-Shielded, 1.8m
PoE Surge Protective Device	MFR: Citel Model No.: CRMJ8-PoE-C6 Serial No.: N/A

Antenna Information					
No	Manufacturer	Model No.	Part No	Antenna Type	Peak Gain
1	WNC	95XKAC15.GD SVZ	LTE1(ANT_1)	MonoPole Antenna	-1.49dBi for Band n5 3.28dBi for Band n66 1.76dBi for Band n2
2	WNC	95XKAC15.GD SVZ	LTE2(ANT_3)	MonoPole Antenna (RX functions)	2.32dBi for Band 66 / n66 1.57dBi for Band 2 / n2
3	WNC	95XKAC15.GD TVZ	LTE3(ANT_4)	MonoPole Antenna (RX functions)	2.5dBi for Band 66 / n66 2.25dBi for Band 2 / n2
4	WNC	95XKAC15.GD RVZ	LTE4(ANT_2)	MonoPole Antenna	-1.12dBi for Band 13 0.63dBi for Band 5 2.15dBi for Band 66 2.22dBi for Band 2

Note:

1. Regarding frequency band operation, the lowest, middle and highest frequency of channel were selected to perform the test, and the details were shown on this report.
2. The EUT description is from the customer declaration.

1.2. Mode of Operation

The EUT provide all functions described as above. The EUT is tested with maximum rated TX power via the Base Station simulator.

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode:	ENDC_2A-n5
	ENDC_2A-n66
	ENDC_5A-n2
	ENDC_5A-n66
	ENDC_13A-n2
	ENDC_13A-n66
	ENDC_66A-n2
	ENDC_66A-n5

Note :

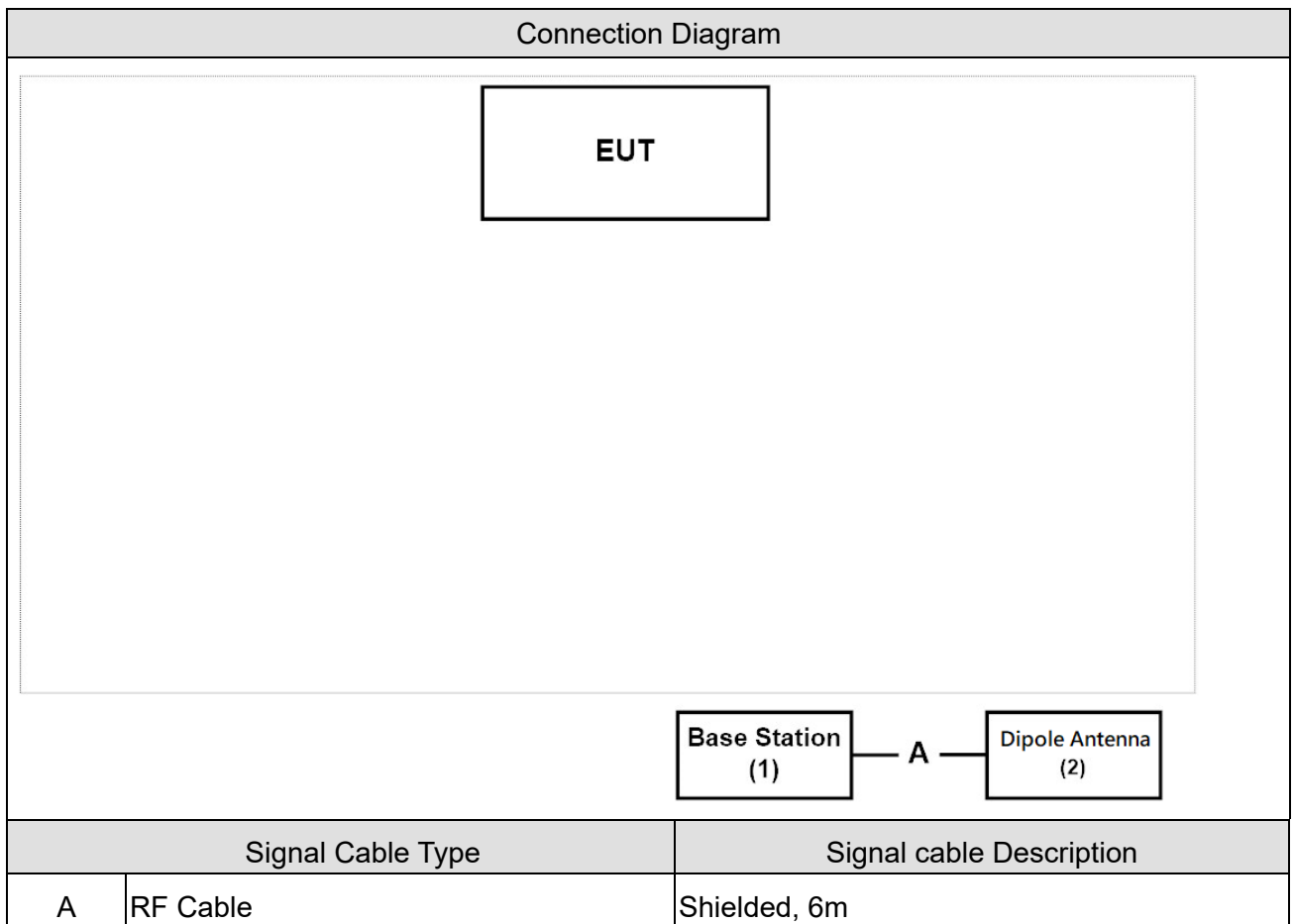
1. WWAN module ANT_1 support TX/RX functions and support ENDC NR functions.
2. WWAN module ANT_3 and ANT_4 support RX functions.
3. WWAN module ANT_2 ENDC LTE functions and RX functions.
4. The adapter mode and the PoE mode pre-scanning radiation has determined by the adapter mode is the worst case.
5. All operation modes has been verified and the report shows the worst case mode.

1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1 Base Station	Keysight	E7515B	6201465467	DoC	Non- Shielded, 2m
2 Dipole Antenna	WHA YU	C660-510389-A	--	--	--

1.4. Configuration of Tested System



1.5. Operation Descriptions

1	Setup the EUT and simulators as shown on 1.4.
2	Turn on the power of all equipment.
3	The EUT link with base station and it will continue receive the signal.
4	Repeat the above procedure.

1.6. Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
 Deviations from the test standards as below description:

Band 2 / n2

Uplink: 1850-1910MHz

Downlink: 1930-1990MHz

Band 2 / n2			
FCC Part 24 Subpart E			
Test item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1033 §2.1046 §24.232	<2 Watts	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak-to-average power ratio	§24.232	<13 dB	Pass
Spurious Emissions	§2.1053 §24.238	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§27.238	<-13dBm	Pass
Frequency Stability	§2.1055 §24.235	<±2.5 ppm	Pass

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Band 5 / n5

Uplink: 824-849MHz

Downlink: 869-894MHz

Band 5 / n5			
FCC Part 22 Subpart H			
Test item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1033 §2.1046 §22.913	<7 Watts	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak-to-average power ratio	§22.913	<13 dB	Pass
Spurious Emissions	§2.1053 §22.917	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§22.917	<-13dBm	Pass
Frequency Stability	§2.1055 §22.335	<±2.5 ppm	Pass

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Band 13

Uplink: 777-787MHz

Downlink: 746-756MHz

Band 13			
FCC Part 27 Subpart F			
Test item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1033 §2.1046 §27.50	<3 Watts ERP	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak-to-average power ratio	§27.50	<-13 dB	Pass
Spurious Emissions	§2.1053 §27.53	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§27.53	<-13dBm	Pass
Frequency Stability	§2.1055 §27.54	<±2.5 ppm	Pass

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Band 66 / n66

Uplink: 1710~1780MHz

Downlink: 2110~2200MHz

Band 66 / n66			
FCC Part 27 Subpart L			
Test item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1033 §2.1046 §27.50	<1 Watts	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak-to-average power ratio	§27.50	<13 dB	Pass
Spurious Emissions	§2.1053 §27.53	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§27.53	<-13dBm	Pass
Frequency Stability	§2.1055 §27.54	<2.5 ppm	Pass

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.2. List of Test Equipment

Conducted / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY54510357	2020/05/14	2021/05/13
Directional coupler	Agilent	87300C	MY44300353	2019/12/05	2020/12/04
Directional coupler	Agilent	778D-012	50550	2019/12/05	2020/12/04
Standard Temperature & Humidity Chamber	KSON	THS-B4T-150	A0401	2020/01/06	2021/01/05
Communication Tester	Keysight	E7515B	6201465467	2019/12/25	2020/12/24

Radiated / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2020/06/04	2021/06/03
Bilog Antenna	Teseq	CBL6112D	23191	2020/06/12	2021/06/11
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Signal Analyzer	R&S	FSVA40	101455	2019/10/21	2020/10/20
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/12/27	2020/12/26
Pre-Amplifier	DEKRA	AP-400C	201801231	2019/12/03	2020/12/02
Pre-Amplifier	EMCI	EMC11830I	980366	2019/12/03	2020/12/02
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2019/10/25	2020/10/24
Pre-Amplifier	DEKRA	AP-025C	12183122	2019/09/24	2020/09/23
Signal Analyzer	R&S	FSV40	101435	2019/07/08	2020/07/07
Communication Tester	Keysight	E7515B	6201465467	2019/12/25	2020/12/24
Coaxial Cable(16m)	Huber+Suhner	SF104	CB2-H	2019/07/25	2020/07/24
EMI system	DEKRA	Version 1.0	CB2-H	NA	NA

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.3. Measurement Uncertainty

Test Item	Uncertainty
RF Output Power	$\pm 1.16\text{dB}$
Peak To Average Ratio	$\pm 2.11\text{dB}$
Spurious Emissions	$\pm 3.40\text{ dB below 1GHz}$ $\pm 3.46\text{ dB above 1GHz}$
Spurious Emissions at Antenna Terminals	$\pm 3.40\text{ dB below 1GHz}$ $\pm 3.46\text{ dB above 1GHz}$

2.4. Test Environment

Items	Test Item	Required	Actual	Test Site
Temperature (°C)	RF Output Power	15 - 35	20 - 26	3
Humidity (%RH)		20 - 75	51 -62	
Temperature (°C)	Occupied Bandwidth	15 - 35	20 - 26	3
Humidity (%RH)		20 - 75	51 -62	
Temperature (°C)	Peak To Average Ratio	15 - 35	20 - 26	3
Humidity (%RH)		20 - 75	51 -62	
Temperature (°C)	Spurious Emission	15 - 35	20 - 26	2/3
Humidity (%RH)		20 - 75	51 -62	
Temperature (°C)	Spurious Emissions at Antenna Terminals	15 - 35	20 - 26	3
Humidity (%RH)		20 - 75	51 -62	
Temperature (°C)	Frequency Stability	15 - 35	20 - 26	3
Humidity (%RH)		20 - 75	51 -62	

Note: Test site information refers to Laboratory Information.

USA : FCC Registration Number: TW3024

Canada CAB identifier : TW3024

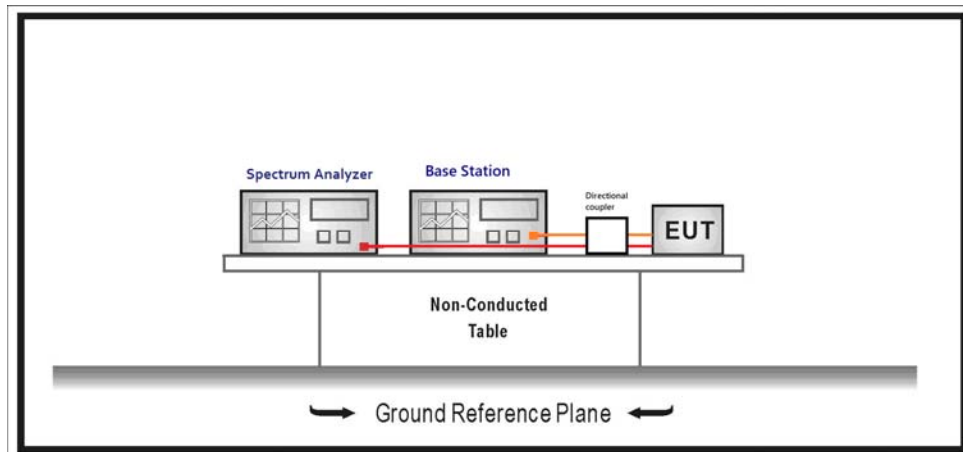
The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: <http://www.dekra.com.tw>

If you have any comments, please don't hesitate to contact us. Our test sites as below:

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
Address	1. No. 75-2, 3rd Lin, WangYe Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C. 2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 3. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
Phone number	1. +886-3-592-8858 2. +886-3-582-8001 3. +886-3-582-8001
Fax number	1. +886-3-592-8859 2. +886-3-582-8958 3. +886-3-582-8958
E mail address	info.tw@dekra.com
Website	http://www.dekra.com.tw

3. RF Output Power

3.1. Test Setup



3.2. Test Procedure

- The RF output of the transmitter was connected to base station simulator.
- The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement..
- Set EUT at maximum average power by base station emulator.
- Measure lowest, middle, and highest channels for each bandwidth and different modulation.

Effective Isotropic Radiated Power = Conducted Power(dBm) + Antenna Gain(dBi)

Effective Radiated Power = Conducted Power(dBm) + Antenna Gain(dBi) - 2.15dB

3.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause5.2.4

ANSI C63.26-2015 Sub-clause 5.2.4.2

3.4. Test Result of Maximum Power Output

Product	LV55
Test Item	RF Output Power
Test Site	SR12-H
Date of Test	2020/06/22~2020/06/28

ENDC 5A_n2: LTE Band 5 Maximum power 0.19 dBm

n2 (1900MHz)			5MHz			10MHz			15MHz			20MHz		
Modulation	Channel		370500	376000	381500	371000	376000	381000	371500	376000	380500	372000	376000	380000
	Frequency (MHz)		1852.5	1880	1907.5	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
	RB No.	RB Offset	Conducted Maximum Average Power (dBm)											
PI/2 BPSK	1	#0	23.30	23.20	23.06	23.54	23.33	23.20	23.59	23.52	23.17	23.53	23.54	23.30
	1	#Mid	23.85	23.77	23.51	23.82	23.91	24.89	24.02	23.96	23.69	23.98	23.86	23.60
	1	#Max	23.32	23.18	24.99	23.75	23.04	24.87	23.50	23.31	22.94	23.37	23.19	23.08
	100%	#0	23.23	23.09	22.88	23.54	23.26	23.11	23.50	23.44	23.18	23.49	23.40	23.26
	100%	#Max	--	--	--	23.61	23.23	23.15	23.49	23.29	23.09	23.51	23.46	23.23
QPSK	1	#0	22.78	22.53	22.30	23.02	22.78	22.62	22.97	22.85	22.79	23.07	22.95	22.72
	1	#Mid	23.99	23.83	23.39	23.85	23.59	23.42	24.15	24.43	24.22	24.09	23.99	23.76
	1	#Max	22.87	22.61	22.35	22.93	22.72	22.54	22.96	23.45	23.26	22.91	22.86	22.56
	100%	#0	22.86	22.71	22.51	22.98	22.74	22.59	23.01	22.88	22.63	23.04	22.97	22.72
	100%	#Max	--	--	--	22.98	22.75	22.51	23.06	22.92	22.68	22.98	23.02	22.64
16QAM	1	#0	21.75	21.62	21.40	21.89	21.65	21.57	21.93	21.87	21.60	21.97	21.86	21.62
	1	#Mid	23.55	23.66	22.90	22.95	22.73	22.54	22.99	23.61	22.63	22.94	22.97	22.69
	1	#Max	21.84	21.63	21.39	21.88	21.61	21.55	21.95	21.79	21.62	21.92	21.70	21.58
	100%	#0	21.78	21.89	21.47	21.98	21.75	21.63	22.00	21.92	21.66	22.04	22.01	21.81
	100%	#Max	--	--	--	22.00	21.78	21.66	22.01	21.80	21.61	21.96	21.97	21.80
64QAM	1	#0	21.10	20.89	20.70	21.26	21.11	21.01	21.32	21.30	20.96	21.27	21.31	20.19
	1	#Mid	21.23	21.18	21.44	21.42	21.14	20.98	21.86	21.46	21.53	21.29	21.36	21.02
	1	#Max	21.17	20.93	20.78	21.32	20.95	20.94	21.40	21.10	20.92	21.36	21.18	20.91
	100%	#0	21.24	21.10	21.02	21.49	21.29	21.05	21.53	21.43	21.17	21.53	21.43	21.34
	100%	#Max	--	--	--	21.46	21.26	21.11	21.56	21.38	21.14	21.56	21.46	21.22
256QAM	1	#0	18.86	18.55	18.32	18.72	18.61	18.44	18.96	18.90	18.68	18.88	18.87	18.78
	1	#Mid	19.13	18.83	18.36	18.84	18.75	18.69	19.16	18.88	18.92	19.16	18.95	18.75
	1	#Max	18.79	18.89	18.30	18.58	18.51	18.32	19.06	18.77	18.46	18.97	18.74	18.37
	100%	#0	19.29	19.11	18.91	19.37	19.19	19.15	19.50	19.37	19.19	19.46	19.44	19.31
	100%	#Max	--	--	--	19.36	19.20	19.08	19.47	19.43	19.23	19.50	19.41	19.25

ENDC 2A_n5: LTE Band 2 Maximum power 0.36 dBm

n5 (850MHz)			5MHz			10MHz			15MHz			20MHz		
Modulation	Channel		165300	167300	169300	165800	167300	168800	166300	167300	168300	166800	167300	167800
	Frequency (MHz)		826.5	836.5	846.5	829	836.5	844	831.5	836.5	841.5	834	836.5	839
	RB No.	RB Offset	Conducted Maximum Average Power (dBm)											
PI/2 BPSK	1	#0	24.40	24.23	24.08	24.03	24.21	24.63	24.48	24.27	24.29	23.98	24.06	23.65
	1	#Mid	24.84	24.61	24.40	24.60	24.66	24.90	24.98	24.80	24.74	24.19	24.61	24.53
	1	#Max	24.23	24.05	23.84	23.10	21.19	23.24	24.26	24.23	24.13	22.93	23.96	22.54
	100%	#0	24.26	23.96	23.89	24.02	23.50	23.55	24.26	24.16	23.89	24.10	24.16	24.01
	100%	#Max	--	--	--	24.27	23.59	23.29	24.24	24.05	23.92	24.18	24.15	23.80
QPSK	1	#0	23.82	23.66	23.38	23.50	23.27	23.51	23.80	23.43	23.04	23.45	23.75	23.20
	1	#Mid	24.67	24.52	24.89	24.66	24.31	24.54	24.69	24.59	24.26	24.16	24.59	24.49
	1	#Max	23.64	23.47	23.25	23.11	23.09	23.29	23.86	23.34	22.82	22.32	23.46	21.97
	100%	#0	23.79	23.49	23.42	23.50	23.59	23.40	23.79	23.43	23.38	23.56	23.70	23.47
	100%	#Max	--	--	--	23.74	23.51	23.34	23.69	23.43	23.39	23.73	23.58	23.27
16QAM	1	#0	22.87	22.65	22.39	22.28	22.33	22.42	22.79	22.64	22.15	22.52	22.73	22.27
	1	#Mid	23.75	24.46	23.24	22.59	23.49	23.25	24.61	24.54	23.46	23.37	23.59	23.68
	1	#Max	22.68	22.51	22.31	21.52	22.11	22.22	22.59	22.41	21.89	21.36	22.33	21.03
	100%	#0	22.85	22.55	22.40	22.76	22.60	22.41	22.71	22.65	22.47	22.58	22.69	22.49
	100%	#Max	--	--	--	22.51	22.52	22.46	22.79	22.56	22.46	22.73	22.71	22.31
64QAM	1	#0	22.23	22.02	21.83	21.67	21.72	21.73	22.62	22.14	21.88	21.90	22.15	22.05
	1	#Mid	22.11	21.93	22.32	22.05	21.90	21.91	22.18	22.21	21.95	21.83	22.08	20.37
	1	#Max	22.05	21.89	21.63	20.89	21.45	21.32	21.89	21.87	21.73	20.74	21.76	20.55
	100%	#0	22.38	22.06	21.94	22.03	22.07	21.99	22.22	22.15	21.98	22.12	22.23	22.03
	100%	#Max	--	--	--	22.28	22.01	21.96	22.22	22.26	22.04	22.23	22.22	21.85
256QAM	1	#0	19.83	19.68	19.45	19.21	19.55	19.53	19.79	19.68	19.57	19.43	19.64	19.42
	1	#Mid	19.91	19.58	19.64	19.73	19.70	19.79	19.69	19.58	19.64	19.54	19.77	19.84
	1	#Max	19.68	19.44	19.22	18.47	19.31	19.18	19.49	19.22	19.26	18.32	19.30	18.10
	100%	#0	20.22	19.97	19.80	19.97	20.00	20.00	20.27	19.77	19.98	20.21	20.20	20.10
	100%	#Max	--	--	--	20.17	19.99	19.98	20.34	19.97	19.82	20.12	20.23	20.04

ENDC 13A_n66: LTE Band 13 Maximum power 0.28 dBm

n66 (1700MHz)			5MHz			10MHz			15MHz			20MHz		
Modulation	Channel		342500	349000	355500	343000	349000	355000	343500	349000	354500	344000	349000	354000
	Frequency (MHz)		1712.5	1745	1777.5	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
	RB No.	RB Offset	Conducted Maximum Average Power (dBm)											
PI/2 BPSK	1	#0	23.50	23.33	23.41	23.41	23.41	23.48	23.60	23.50	23.44	23.53	23.62	23.51
	1	#Mid	24.11	23.81	23.98	23.71	23.98	23.84	23.90	24.05	23.94	24.04	23.98	23.99
	1	#Max	23.96	23.42	23.46	23.38	23.38	23.41	23.51	23.50	23.40	23.42	23.41	23.42
	100%	#0	23.99	23.05	23.41	23.33	23.41	23.43	23.51	23.39	23.42	23.49	23.35	23.42
	100%	#Max	--	--	--	23.31	23.43	23.45	23.54	23.41	23.41	23.47	23.38	23.41
QPSK	1	#0	22.25	22.56	23.02	22.13	22.91	23.08	22.94	22.96	22.85	23.31	22.95	22.87
	1	#Mid	23.25	23.48	24.01	23.58	24.25	23.91	24.09	23.89	24.39	23.95	24.14	23.93
	1	#Max	22.72	22.75	23.11	22.26	22.89	22.99	23.02	22.84	22.93	23.02	22.99	22.97
	100%	#0	22.67	22.51	22.82	22.91	22.87	22.91	23.01	22.96	22.93	22.99	22.95	22.99
	100%	#Max	--	--	--	22.89	22.86	22.93	22.98	22.98	22.85	22.99	22.98	22.97
16QAM	1	#0	21.35	21.61	21.73	21.81	21.86	21.86	21.99	21.88	21.86	21.90	21.92	21.91
	1	#Mid	22.46	22.66	22.94	22.81	21.94	22.88	24.52	23.69	22.85	22.80	22.93	22.85
	1	#Max	21.80	21.77	21.77	21.84	21.79	21.79	21.99	21.96	21.98	21.92	21.89	21.96
	100%	#0	21.76	21.59	21.90	21.89	21.92	21.92	21.95	21.93	21.94	22.01	21.90	22.01
	100%	#Max	--	--	--	21.87	21.91	21.91	21.96	21.86	21.91	21.96	21.98	22.02
64QAM	1	#0	21.14	20.98	21.16	21.12	21.13	21.13	21.32	21.24	21.22	21.42	21.04	21.30
	1	#Mid	21.55	21.07	21.37	21.04	21.36	21.36	21.38	21.86	21.81	21.43	21.30	21.28
	1	#Max	21.03	21.05	21.14	21.14	21.24	21.24	21.36	21.32	21.29	21.32	21.15	21.27
	100%	#0	21.37	21.07	21.36	21.39	21.41	21.41	21.55	21.41	21.39	21.44	21.41	21.48
	100%	#Max	--	--	--	21.37	21.35	21.35	21.51	21.52	21.46	21.49	21.48	21.49
256QAM	1	#0	18.68	18.56	18.79	18.66	18.68	18.68	18.92	18.81	18.81	18.88	18.76	18.84
	1	#Mid	18.87	18.66	18.72	19.50	19.24	19.24	18.95	18.85	18.94	19.03	18.76	18.77
	1	#Max	18.70	18.65	18.77	18.84	18.69	18.69	19.05	18.87	18.89	18.98	18.77	18.86
	100%	#0	19.26	19.01	19.43	19.35	19.35	19.35	19.48	19.51	19.36	19.48	19.37	19.47
	100%	#Max	--	--	--	19.28	19.40	19.40	19.42	19.32	19.44	19.49	19.46	19.48

ENDC 2A_n5: ENDC n5 Maximum power 0.18 dBm

Band 2 (1900MHz)				Max Power	Max Power	Max Power	Max Power	Max Power	Max Power
Channel	Modulation	RB No.	RB Offset	(Conducted)	(Conducted)	(Conducted)	(Conducted)	(Conducted)	(Conducted)
				1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	21.83	21.94	21.91	21.84	22.02	21.84
		1	#Mid	21.88	21.84	21.96	21.78	21.98	21.85
		1	#Max	21.80	21.83	21.90	21.81	21.63	21.81
		100%	--	21.92	21.98	22.00	21.92	21.99	21.88
	16QAM	1	#0	22.16	22.24	22.19	22.17	22.18	22.05
		1	#Mid	22.25	22.17	22.18	22.07	22.06	22.06
		1	#Max	22.17	22.22	22.18	22.18	21.73	22.07
		100%	--	21.00	21.01	21.02	20.93	21.09	20.89
	64QAM	1	#0	21.15	21.22	21.13	21.16	20.98	21.37
		1	#Mid	21.18	21.20	21.05	21.15	21.07	21.30
		1	#Max	21.18	21.28	21.15	21.21	20.98	20.88
		100%	--	20.01	20.07	20.06	19.94	20.05	19.98
Mid	QPSK	1	#0	21.82	21.80	21.88	21.88	21.44	21.81
		1	#Mid	21.86	21.79	21.80	21.80	21.84	21.79
		1	#Max	21.83	21.90	21.87	21.84	22.10	21.71
		100%	--	21.90	21.97	21.95	21.96	22.02	21.91
	16QAM	1	#0	22.20	22.13	22.09	22.14	22.31	22.10
		1	#Mid	22.23	22.09	22.15	22.15	22.28	22.05
		1	#Max	22.19	22.15	22.20	22.15	22.81	22.05
		100%	--	20.97	20.99	20.96	20.95	21.10	20.97
	64QAM	1	#0	21.09	21.39	21.23	20.80	20.90	20.61
		1	#Mid	21.22	21.33	21.34	21.23	21.27	21.18
		1	#Max	21.16	21.43	21.35	21.24	20.88	21.05
		100%	--	19.90	20.01	19.99	20.00	19.98	19.97
High	QPSK	1	#0	21.48	21.63	21.60	21.71	21.69	21.72
		1	#Mid	21.65	21.63	21.63	21.59	21.65	21.62
		1	#Max	21.49	21.57	21.62	21.55	21.58	21.53
		100%	--	21.64	21.71	21.71	21.72	21.78	21.78
	16QAM	1	#0	21.77	21.95	21.88	22.00	21.86	22.01
		1	#Mid	21.84	21.92	21.82	21.96	21.88	21.86
		1	#Max	21.78	21.92	21.76	21.86	21.92	21.93
		100%	--	20.60	20.71	20.72	20.75	20.80	20.82
	64QAM	1	#0	20.75	20.93	20.91	20.83	20.78	21.10
		1	#Mid	20.85	20.89	21.07	21.14	20.88	20.61
		1	#Max	20.79	20.92	20.96	21.09	20.95	20.92
		100%	--	19.68	19.74	19.73	19.79	19.81	19.73

ENDC 5A_n2: ENDC n2 Maximum power 0.35 dBm

Band 5 (850MHz)				Max Power	Max Power	Max Power	Max Power	Max Power	Max Power
Channel	Modulation	RB No.	RB Offset	(Conducted)	(Conducted)	(Conducted)	(Conducted)	(Conducted)	(Conducted)
				1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	21.93	22.03	22.05	22.25	--	--
		1	#Mid	22.02	22.19	22.36	22.02	--	--
		1	#Max	21.89	22.11	22.33	21.52	--	--
		100%	--	22.12	21.52	21.55	21.27	--	--
	16QAM	1	#0	22.39	22.34	22.38	22.73	--	--
		1	#Mid	22.32	22.39	22.61	22.46	--	--
		1	#Max	22.37	22.25	22.05	21.87	--	--
		100%	--	21.16	20.22	20.27	19.94	--	--
	64QAM	1	#0	21.44	21.48	21.43	21.36	--	--
		1	#Mid	21.36	21.53	21.64	21.17	--	--
		1	#Max	21.24	21.54	21.22	20.92	--	--
		100%	--	20.01	19.34	19.23	18.94	--	--
Mid	QPSK	1	#0	21.76	21.73	21.67	21.77	--	--
		1	#Mid	21.87	21.74	21.82	21.85	--	--
		1	#Max	21.81	22.02	21.94	21.94	--	--
		100%	--	21.89	21.17	21.21	21.17	--	--
	16QAM	1	#0	22.16	21.92	22.15	22.31	--	--
		1	#Mid	22.21	22.07	22.17	21.87	--	--
		1	#Max	22.11	22.39	22.33	21.22	--	--
		100%	--	21.05	19.94	20.01	20.05	--	--
	64QAM	1	#0	21.14	20.96	21.06	21.24	--	--
		1	#Mid	21.22	21.09	21.19	21.32	--	--
		1	#Max	21.09	21.16	21.24	21.36	--	--
		100%	--	19.89	18.96	19.02	18.98	--	--
High	QPSK	1	#0	22.54	21.84	22.52	22.16	--	--
		1	#Mid	22.63	21.83	22.01	21.71	--	--
		1	#Max	22.61	21.84	21.91	20.76	--	--
		100%	--	21.79	21.94	20.33	20.56	--	--
	16QAM	1	#0	22.14	22.21	21.94	22.39	--	--
		1	#Mid	22.06	22.05	21.22	21.94	--	--
		1	#Max	21.98	21.96	21.16	21.17	--	--
		100%	--	20.93	21.05	19.12	19.96	--	--
	64QAM	1	#0	20.93	21.14	20.79	21.42	--	--
		1	#Mid	20.96	21.02	20.14	21.02	--	--
		1	#Max	21.07	21.06	20.24	20.11	--	--
		100%	--	19.75	19.92	18.03	20.01	--	--

ENDC 13A_n66: ENDC n66 Maximum power 0.42 dBm

Band 13 (700MHz)				Max Power	Max Power	Max Power	Max Power	Max Power	Max Power
Channel	Modulation	RB No.	RB Offset	(Conducted)	(Conducted)	(Conducted)	(Conducted)	(Conducted)	(Conducted)
				1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	--	--	21.05	--	--	--
		1	#Mid	--	--	21.15	--	--	--
		1	#Max	--	--	21.35	--	--	--
		100%	--	--	--	20.31	--	--	--
	16QAM	1	#0	--	--	21.35	--	--	--
		1	#Mid	--	--	21.46	--	--	--
		1	#Max	--	--	21.55	--	--	--
		100%	--	--	--	20.35	--	--	--
	64QAM	1	#0	--	--	20.43	--	--	--
		1	#Mid	--	--	20.46	--	--	--
		1	#Max	--	--	20.54	--	--	--
		100%	--	--	--	19.47	--	--	--
Mid	QPSK	1	#0	--	--	21.19	21.31	--	--
		1	#Mid	--	--	21.34	21.32	--	--
		1	#Max	--	--	21.14	21.58	--	--
		100%	--	--	--	21.44	21.54	--	--
	16QAM	1	#0	--	--	21.54	21.74	--	--
		1	#Mid	--	--	21.76	21.77	--	--
		1	#Max	--	--	21.44	21.65	--	--
		100%	--	--	--	20.47	20.62	--	--
	64QAM	1	#0	--	--	20.55	20.45	--	--
		1	#Mid	--	--	20.48	20.74	--	--
		1	#Max	--	--	20.71	20.64	--	--
		100%	--	--	--	19.47	19.64	--	--
High	QPSK	1	#0	--	--	21.23	--	--	--
		1	#Mid	--	--	21.32	--	--	--
		1	#Max	--	--	21.44	--	--	--
		100%	--	--	--	21.39	--	--	--
	16QAM	1	#0	--	--	21.52	--	--	--
		1	#Mid	--	--	21.58	--	--	--
		1	#Max	--	--	21.51	--	--	--
		100%	--	--	--	20.48	--	--	--
	64QAM	1	#0	--	--	20.63	--	--	--
		1	#Mid	--	--	20.67	--	--	--
		1	#Max	--	--	20.63	--	--	--
		100%	--	--	--	19.49	--	--	--

ENDC 66A_n5: ENDC n5 Maximum power 0.17 dBm

Band 66 (1700MHz)				Max Power	Max Power	Max Power	Max Power	Max Power	Max Power
Channel	Modulation	RB No.	RB Offset	(Conducted)	(Conducted)	(Conducted)	(Conducted)	(Conducted)	(Conducted)
				1.4M	3M	5M	10M	15M	20M
Low	QPSK	1	#0	21.83	21.73	21.64	21.52	21.82	21.71
		1	#Mid	21.87	21.75	21.78	22.02	22.21	22.42
		1	#Max	21.88	21.88	22.01	22.11	22.44	21.92
		100%	--	20.99	21.17	21.12	21.22	21.29	21.31
	16QAM	1	#0	21.99	22.07	21.95	21.83	22.19	22.36
		1	#Mid	22.17	22.13	22.24	22.36	22.54	23.01
		1	#Max	22.37	22.38	22.32	22.45	22.74	22.42
		100%	--	20.04	19.95	19.87	19.92	20.02	20.04
	64QAM	1	#0	21.22	21.03	20.96	20.82	21.12	21.14
		1	#Mid	21.26	21.07	21.16	21.45	21.52	21.61
		1	#Max	21.29	21.32	21.28	21.57	22.01	21.36
		100%	--	18.92	18.97	18.94	19.02	19.08	19.03
Mid	QPSK	1	#0	21.38	21.44	22.19	21.66	20.59	20.33
		1	#Mid	21.56	21.57	22.26	22.15	21.55	21.62
		1	#Max	21.62	21.71	22.41	22.28	21.86	21.66
		100%	--	20.69	20.49	20.52	20.43	20.69	20.66
	16QAM	1	#0	21.96	21.91	21.84	21.12	21.05	20.94
		1	#Mid	22.18	22.29	21.95	21.54	22.01	22.12
		1	#Max	22.07	22.15	22.14	21.76	22.32	22.26
		100%	--	19.76	19.61	19.11	19.04	19.47	19.43
	64QAM	1	#0	20.83	20.91	20.32	19.83	20.12	19.83
		1	#Mid	20.96	21.06	20.52	21.01	20.82	21.01
		1	#Max	21.04	21.12	20.61	21.13	20.94	21.13
		100%	--	18.81	18.76	18.07	18.46	18.55	18.46
High	QPSK	1	#0	20.24	21.16	20.49	20.42	20.64	21.81
		1	#Mid	20.18	21.26	20.46	20.52	20.64	20.92
		1	#Max	20.16	21.07	20.27	20.02	20.35	21.16
		100%	--	19.48	20.33	19.72	19.86	20.12	20.56
	16QAM	1	#0	20.64	21.78	21.16	20.93	21.17	22.05
		1	#Mid	20.73	21.73	20.96	20.76	21.02	21.38
		1	#Max	20.71	21.46	20.61	20.49	20.68	21.53
		100%	--	18.61	19.03	18.52	18.76	18.96	19.23
	64QAM	1	#0	19.74	20.58	20.07	20.07	20.19	21.25
		1	#Mid	19.62	20.51	19.88	20.15	20.22	20.42
		1	#Max	19.49	20.39	19.69	19.64	19.61	20.15
		100%	--	17.74	18.14	17.78	17.84	18.05	18.41

3.5. Maximum Conducted Power and ERP/EIRP Power

According to KDB 412172 D01 Section 1.2 Power Approach

$$\text{EIRP} = P_T + G_T - L_C = \text{ERP} + 2.15 \text{ dB}, \text{ERP} = \text{EIRP} - 2.15 \text{ dB}$$

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

n2 (1900MHz)		ENDC 5A_n2: LTE Band 5 Maximum power 0.19 dBm						
BW (MHz)	Modulation	NR Power (dBm)	LTE Power (dBm)	Total Power (dBm)	Total Power (W)	Antenna Gain (dBi)	Maximum EIRP (W)	Maximum EIRP Limit (W)
5	PI/2 BPSK	24.99	0.19	25.00	0.317	1.76	0.475	2
	QPSK	23.99	0.19	24.01	0.252	1.76	0.377	2
	16QAM	23.66	0.19	23.68	0.233	1.76	0.350	2
	64QAM	21.44	0.19	21.47	0.140	1.76	0.210	2
	256QAM	19.29	0.19	19.34	0.086	1.76	0.129	2
10	PI/2 BPSK	24.89	0.19	24.90	0.309	1.76	0.464	2
	QPSK	23.85	0.19	23.87	0.244	1.76	0.365	2
	16QAM	22.95	0.19	22.97	0.198	1.76	0.297	2
	64QAM	21.49	0.19	21.52	0.142	1.76	0.213	2
	256QAM	19.37	0.19	19.42	0.088	1.76	0.131	2
15	PI/2 BPSK	24.02	0.19	24.04	0.253	1.76	0.380	2
	QPSK	24.43	0.19	24.45	0.278	1.76	0.417	2
	16QAM	23.61	0.19	23.63	0.231	1.76	0.346	2
	64QAM	21.86	0.19	21.89	0.155	1.76	0.232	2
	256QAM	19.50	0.19	19.55	0.090	1.76	0.135	2
20	PI/2 BPSK	23.98	0.19	24.00	0.251	1.76	0.377	2
	QPSK	24.09	0.19	24.11	0.257	1.76	0.386	2
	16QAM	22.97	0.19	22.99	0.199	1.76	0.299	2
	64QAM	21.56	0.19	21.59	0.144	1.76	0.216	2
	256QAM	19.50	0.19	19.55	0.090	1.76	0.135	2

n5 (850MHz)		ENDC 2A_n5: LTE Band 2 Maximum power 0.36 dBm						
BW (MHz)	Modulation	NR Power (dBm)	LTE Power (dBm)	Total Power (dBm)	Total Power (W)	Antenna Gain (dBi)	Maximum ERP (W)	Maximum ERP Limit (W)
5	PI/2 BPSK	24.84	0.36	24.86	0.306	-1.49	0.132	7
	QPSK	24.89	0.36	24.91	0.309	-1.49	0.134	7
	16QAM	24.46	0.36	24.48	0.280	-1.49	0.121	7
	64QAM	22.38	0.36	22.41	0.174	-1.49	0.075	7
	256QAM	20.22	0.36	20.26	0.106	-1.49	0.046	7
10	PI/2 BPSK	24.90	0.36	24.92	0.310	-1.49	0.134	7
	QPSK	24.66	0.36	24.68	0.294	-1.49	0.127	7
	16QAM	23.49	0.36	23.51	0.224	-1.49	0.097	7
	64QAM	22.28	0.36	22.31	0.170	-1.49	0.074	7
	256QAM	20.17	0.36	20.22	0.105	-1.49	0.045	7
15	PI/2 BPSK	24.98	0.36	24.99	0.316	-1.49	0.137	7
	QPSK	24.69	0.36	24.71	0.296	-1.49	0.128	7
	16QAM	24.61	0.36	24.63	0.290	-1.49	0.125	7
	64QAM	22.62	0.36	22.65	0.184	-1.49	0.080	7
	256QAM	20.34	0.36	20.38	0.109	-1.49	0.047	7
20	PI/2 BPSK	24.61	0.36	24.63	0.290	-1.49	0.125	7
	QPSK	24.59	0.36	24.61	0.289	-1.49	0.125	7
	16QAM	23.68	0.36	23.70	0.234	-1.49	0.101	7
	64QAM	22.23	0.36	22.26	0.168	-1.49	0.073	7
	256QAM	20.23	0.36	20.27	0.107	-1.49	0.046	7

n66 (1700MHz)		ENDC 13A_n66: LTE Band 13 Maximum power 0.28 dBm						
BW (MHz)	Modulation	NR Power (dBm)	LTE Power (dBm)	Total Power (dBm)	Total Power (W)	Antenna Gain (dBi)	Maximum EIRP (W)	Maximum EIRP Limit (W)
5	PI/2 BPSK	24.11	0.28	24.13	0.259	3.28	0.551	1
	QPSK	24.01	0.28	24.03	0.253	3.28	0.538	1
	16QAM	22.94	0.28	22.96	0.198	3.28	0.421	1
	64QAM	21.55	0.28	21.58	0.144	3.28	0.306	1
	256QAM	19.43	0.28	19.48	0.089	3.28	0.189	1
10	PI/2 BPSK	23.98	0.28	24.00	0.251	3.28	0.534	1
	QPSK	24.25	0.28	24.27	0.267	3.28	0.569	1
	16QAM	22.88	0.28	22.90	0.195	3.28	0.415	1
	64QAM	21.41	0.28	21.44	0.139	3.28	0.297	1
	256QAM	19.50	0.28	19.55	0.090	3.28	0.192	1
15	PI/2 BPSK	24.05	0.28	24.07	0.255	3.28	0.543	1
	QPSK	24.39	0.28	24.41	0.276	3.28	0.587	1
	16QAM	24.52	0.28	24.54	0.284	3.28	0.605	1
	64QAM	21.86	0.28	21.89	0.155	3.28	0.329	1
	256QAM	19.51	0.28	19.56	0.090	3.28	0.192	1
20	PI/2 BPSK	24.04	0.28	24.06	0.255	3.28	0.542	1
	QPSK	24.14	0.28	24.16	0.260	3.28	0.554	1
	16QAM	22.93	0.28	22.95	0.197	3.28	0.420	1
	64QAM	21.49	0.28	21.52	0.142	3.28	0.302	1
	256QAM	19.49	0.28	19.54	0.090	3.28	0.192	1

LTE B2 (1900MHz)		ENDC 2A_n5: NR n5 Maximum power 0.18 dBm						
BW (MHz)	Modulation	LTE Power (dBm)	NR Power (dBm)	Total Power (dBm)	Total Power (W)	Antenna Gain (dBi)	Maximum EIRP (W)	Maximum EIRP Limit (W)
1.4	QPSK	21.92	0.18	21.95	0.157	2.22	0.261	2
	16QAM	22.25	0.18	22.28	0.169	2.22	0.282	2
	64QAM	21.22	0.18	21.25	0.133	2.22	0.223	2
3	QPSK	21.98	0.18	22.01	0.159	2.22	0.265	2
	16QAM	22.24	0.18	22.27	0.169	2.22	0.281	2
	64QAM	21.43	0.18	21.46	0.140	2.22	0.233	2
5	QPSK	22.00	0.18	22.03	0.160	2.22	0.266	2
	16QAM	22.20	0.18	22.23	0.167	2.22	0.278	2
	64QAM	21.35	0.18	21.38	0.138	2.22	0.229	2
10	QPSK	21.96	0.18	21.99	0.158	2.22	0.264	2
	16QAM	22.18	0.18	22.21	0.166	2.22	0.277	2
	64QAM	21.24	0.18	21.27	0.134	2.22	0.224	2
15	QPSK	22.10	0.18	22.13	0.163	2.22	0.272	2
	16QAM	22.81	0.18	22.83	0.192	2.22	0.320	2
	64QAM	21.27	0.18	21.30	0.135	2.22	0.225	2
20	QPSK	21.91	0.18	21.94	0.156	2.22	0.261	2
	16QAM	22.10	0.18	22.13	0.163	2.22	0.272	2
	64QAM	21.37	0.18	21.40	0.138	2.22	0.230	2

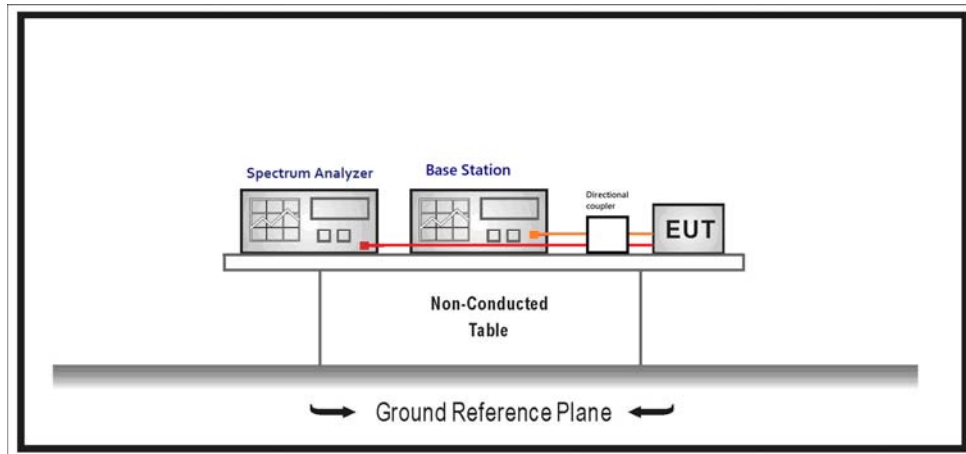
LTE B5 (850MHz)		ENDC 5A_n2: NR n2 Maximum power 0.35 dBm						
BW (MHz)	Modulation	LTE Power (dBm)	NR Power (dBm)	Total Power (dBm)	Total Power (W)	Antenna Gain (dBi)	Maximum ERP (W)	Maximum ERP Limit (W)
1.4	QPSK	22.63	0.35	22.66	0.184	0.63	0.130	7
	16QAM	22.39	0.35	22.42	0.174	0.63	0.123	7
	64QAM	21.44	0.35	21.47	0.140	0.63	0.099	7
3	QPSK	22.19	0.35	22.22	0.167	0.63	0.117	7
	16QAM	22.39	0.35	22.42	0.174	0.63	0.123	7
	64QAM	21.54	0.35	21.57	0.144	0.63	0.101	7
5	QPSK	22.52	0.35	22.55	0.180	0.63	0.127	7
	16QAM	22.61	0.35	22.64	0.183	0.63	0.129	7
	64QAM	21.64	0.35	21.67	0.147	0.63	0.104	7
10	QPSK	22.25	0.35	22.28	0.169	0.63	0.119	7
	16QAM	22.73	0.35	22.76	0.189	0.63	0.133	7
	64QAM	21.42	0.35	21.45	0.140	0.63	0.098	7

LTE B13 (700MHz)		ENDC 13A_n66: NR n66 Maximum power 0.42 dBm						
BW (MHz)	Modulation	LTE Power (dBm)	NR Power (dBm)	Total Power (dBm)	Total Power (W)	Antenna Gain (dBi)	Maximum ERP (W)	Maximum ERP Limit (W)
5	QPSK	21.44	0.42	21.47	0.140	-1.12	0.066	3
	16QAM	21.76	0.42	21.79	0.151	-1.12	0.071	3
	64QAM	20.71	0.42	20.75	0.119	-1.12	0.056	3
10	QPSK	21.58	0.42	21.61	0.145	-1.12	0.068	3
	16QAM	21.77	0.42	21.80	0.151	-1.12	0.071	3
	64QAM	20.74	0.42	20.78	0.120	-1.12	0.056	3

LTE B66 (1700MHz)		ENDC 66A_n5: NR n5 Maximum power 0.17 dBm						
BW (MHz)	Modulation	LTE Power (dBm)	NR Power (dBm)	Total Power (dBm)	Total Power (W)	Antenna Gain (dBi)	Maximum EIRP (W)	Maximum EIRP Limit (W)
1.4	QPSK	21.88	0.17	21.91	0.155	2.15	0.255	1
	16QAM	22.37	0.17	22.40	0.174	2.15	0.285	1
	64QAM	21.29	0.17	21.32	0.136	2.15	0.223	1
3	QPSK	21.88	0.17	21.91	0.155	2.15	0.255	1
	16QAM	22.38	0.17	22.41	0.174	2.15	0.285	1
	64QAM	21.32	0.17	21.35	0.137	2.15	0.224	1
5	QPSK	22.41	0.17	22.44	0.175	2.15	0.287	1
	16QAM	22.32	0.17	22.35	0.172	2.15	0.282	1
	64QAM	21.28	0.17	21.31	0.135	2.15	0.222	1
10	QPSK	22.28	0.17	22.31	0.170	2.15	0.279	1
	16QAM	22.45	0.17	22.48	0.177	2.15	0.290	1
	64QAM	21.57	0.17	21.60	0.145	2.15	0.237	1
15	QPSK	22.44	0.17	22.47	0.176	2.15	0.289	1
	16QAM	22.74	0.17	22.76	0.189	2.15	0.310	1
	64QAM	22.01	0.17	22.04	0.160	2.15	0.262	1
20	QPSK	22.42	0.17	22.45	0.176	2.15	0.288	1
	16QAM	23.01	0.17	23.03	0.201	2.15	0.330	1
	64QAM	21.61	0.17	21.64	0.146	2.15	0.239	1

4. Occupied Bandwidth

4.1. Test Setup



4.2. Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The 26 dB bandwidth and 99% occupied bandwidth of the low & middle & high channel for the highest RF powers were measured.

4.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 4.2 & 4.3
ANSI C63.26-2015 Sub-clause 5.4.3 & 5.4.4

4.4. Test Result

Product	LV55
Test Item	Occupied Bandwidth
Test Site	SR12-H

n2 (1900MHz)		5MHz			10MHz			15MHz			20MHz		
Channel		370500	376000	381500	371000	376000	381000	371500	376000	380500	372000	376000	380000
Frequency (MHz)		1852.5	1880	1907.5	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Mode	Modulation	Occupied Bandwidth (MHz)											
99%	PI/2 BPSK	4.4977	4.5001	4.4936	9.0608	9.0672	9.0678	13.434	13.446	13.465	18.449	18.488	18.500
	QPSK	4.5165	4.5276	4.5011	9.0217	9.0364	9.0150	13.447	13.464	13.534	18.368	18.36	18.406
	16QAM	4.5162	4.4989	4.5014	9.0780	9.0933	9.0973	13.494	13.514	13.514	18.516	18.544	18.553
	64QAM	4.4926	4.5055	4.5296	9.0483	9.0534	9.0550	13.461	13.450	13.478	18.297	18.346	18.340
	256QAM	4.4975	4.5018	4.5096	9.0279	9.0303	9.0451	13.422	13.439	13.442	18.37	18.419	18.426
26dB	PI/2 BPSK	5.238	5.160	5.186	10.59	10.53	10.53	14.54	14.57	14.57	20.26	20.25	20.32
	QPSK	5.149	5.185	5.404	10.38	10.16	9.850	14.55	14.50	14.59	20.20	20.27	20.40
	16QAM	5.221	5.241	5.221	10.68	10.54	11.20	14.56	14.65	14.61	20.30	20.30	20.33
	64QAM	5.159	5.161	5.272	10.44	10.51	10.65	14.61	14.57	14.59	20.26	20.29	20.27
	256QAM	5.310	5.334	5.219	9.919	9.973	10.04	14.47	14.50	14.51	20.29	20.29	20.28

n5 (850MHz)		5MHz			10MHz			15MHz			20MHz		
Channel		165300	167300	169300	165800	167300	168800	166300	167300	168300	166800	167300	167800
Frequency (MHz)		826.5	836.5	846.5	829	836.5	844	831.5	836.5	841.5	834	836.5	839
Mode	Modulation	Occupied Bandwidth (MHz)											
99%	PI/2 BPSK	4.5029	4.4958	4.4991	9.0677	9.0724	9.0540	13.435	13.451	13.417	18.403	18.411	18.418
	QPSK	4.5072	4.5300	4.5129	9.0418	9.0195	9.0208	13.517	13.441	13.512	18.368	18.321	18.347
	16QAM	4.4948	4.4973	4.5067	9.0627	9.0768	9.0634	13.497	13.496	13.476	18.508	18.498	18.494
	64QAM	4.5184	4.4987	4.5107	9.0326	9.0411	9.0365	13.425	13.437	13.444	18.275	18.279	18.274
	256QAM	4.5023	4.4966	4.5072	9.033	9.0351	9.0380	13.427	13.432	13.407	18.347	18.362	18.338
26dB	PI/2 BPSK	5.226	5.210	5.217	10.67	10.60	10.30	14.55	14.49	14.52	20.19	20.20	20.30
	QPSK	5.243	5.199	5.406	10.18	10.08	10.02	14.61	14.49	14.56	20.14	20.23	20.12
	16QAM	5.196	5.245	5.264	10.37	10.77	10.37	14.63	14.61	14.55	20.30	20.28	20.32
	64QAM	5.309	5.196	5.259	10.53	10.62	10.63	14.38	14.62	14.60	20.18	20.25	20.18
	256QAM	5.167	5.315	5.231	9.984	9.953	9.949	14.47	14.52	14.51	20.21	20.27	20.22

n66 (1700MHz)		5MHz			10MHz			15MHz			20MHz		
Channel		342500	349000	355500	343000	349000	355000	343500	349000	354500	344000	349000	354000
Frequency (MHz)		1712.5	1745	1777.5	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Mode	Modulation	Occupied Bandwidth (MHz)											
99%	PI/2 BPSK	4.4975	4.4930	4.4908	9.0494	9.0530	9.0728	13.436	13.430	13.438	18.473	18.462	18.459
	QPSK	4.5153	4.4942	4.5123	9.0200	9.0026	9.0353	13.448	13.453	13.480	18.442	18.397	18.455
	16QAM	4.4997	4.5007	4.4992	9.0631	9.0657	9.0757	13.504	13.502	13.500	18.536	18.528	18.522
	64QAM	4.5266	4.5246	4.5251	9.0328	9.0361	9.0489	13.444	13.428	13.451	18.322	18.312	18.314
	256QAM	4.5127	4.5115	4.5123	9.0418	9.0356	9.0351	13.434	13.428	13.430	18.405	18.389	18.395
26dB	PI/2 BPSK	5.182	5.202	5.111	10.14	10.16	10.36	14.42	14.46	14.42	20.29	20.34	20.28
	QPSK	5.216	5.475	5.266	10.09	9.984	10.30	14.49	14.53	14.53	20.26	20.18	20.28
	16QAM	5.236	5.211	5.213	10.32	10.64	10.80	14.63	14.62	14.54	20.36	20.33	20.30
	64QAM	5.265	5.258	5.279	10.46	10.50	10.55	14.59	14.49	14.56	20.22	20.28	20.30
	256QAM	5.244	5.239	5.239	10.05	10.01	9.999	14.48	14.45	14.53	20.24	20.25	20.29

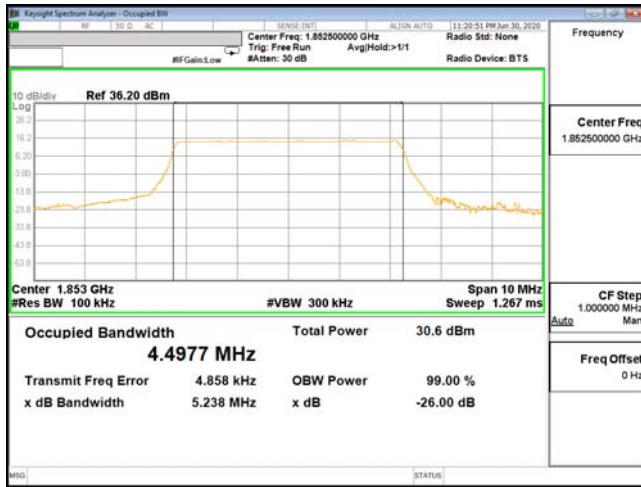
LTE Band 2								
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth			26 dB bandwidth (MHz)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4M	18607	1850.7	1.0905	1.0930	1.0978	1.247	1.237	1.232
1.4M	18900	1880	1.0913	1.0966	1.0940	1.235	1.241	1.243
1.4M	19193	1909.3	1.0930	1.0924	1.0868	1.241	1.246	1.231
3M	18615	1851.5	2.7482	2.7196	2.7394	3.115	3.102	3.057
3M	18900	1880	2.7280	2.7276	2.7312	3.090	3.073	3.075
3M	19185	1908.5	2.7275	2.7278	2.7398	3.085	3.070	3.083
5M	18625	1852.5	4.5016	4.4970	4.5093	4.976	4.962	5.004
5M	18900	1880	4.5148	4.5037	4.5091	5.010	4.958	4.973
5M	19175	1907.5	4.4942	4.4845	4.5144	4.906	4.937	4.977
10M	18650	1855	9.0574	9.0511	9.0665	10.02	9.967	9.957
10M	18900	1880	9.0428	9.0496	9.0521	9.926	10.01	10.01
10M	19150	1905	9.0674	9.0501	9.0605	9.983	9.973	9.963
15M	18675	1857.5	13.499	13.499	13.499	14.77	14.68	14.70
15M	18900	1880	13.474	13.483	13.524	14.68	14.71	14.67
15M	19125	1902.5	13.515	13.511	13.505	14.73	14.84	14.79
20M	18700	1860	18.471	18.562	18.476	20.48	20.53	20.41
20M	18900	1880	18.589	18.498	18.519	20.44	20.54	20.43
20M	19100	1900	18.638	18.502	18.591	20.44	20.57	20.52

LTE Band 5								
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth			26 dB bandwidth (MHz)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4M	20407	824.7	1.0917	1.0955	1.0923	1.228	1.240	1.241
1.4M	20525	836.5	1.0892	1.0941	1.0918	1.234	1.237	1.240
1.4M	20643	848.3	1.0932	1.0949	1.0922	1.231	1.240	1.239
3M	20415	825.5	2.7504	2.7213	2.7350	3.069	3.067	3.062
3M	20525	836.5	2.7444	2.7197	2.7365	3.098	3.073	3.050
3M	20635	847.5	2.7417	2.7212	2.7400	3.077	3.097	3.068
5M	20425	826.5	4.5082	4.5014	4.5032	4.995	4.957	4.983
5M	20525	836.5	4.5080	4.5042	4.5116	4.992	4.948	4.984
5M	20625	846.5	4.5033	4.5029	4.5086	4.992	4.999	4.971
10M	20450	829	9.0596	9.0429	9.0431	9.962	9.924	9.920
10M	20525	836.5	9.0588	9.0422	9.0473	9.969	9.959	9.895
10M	20600	844	9.0515	9.0420	9.0412	9.970	9.947	9.927

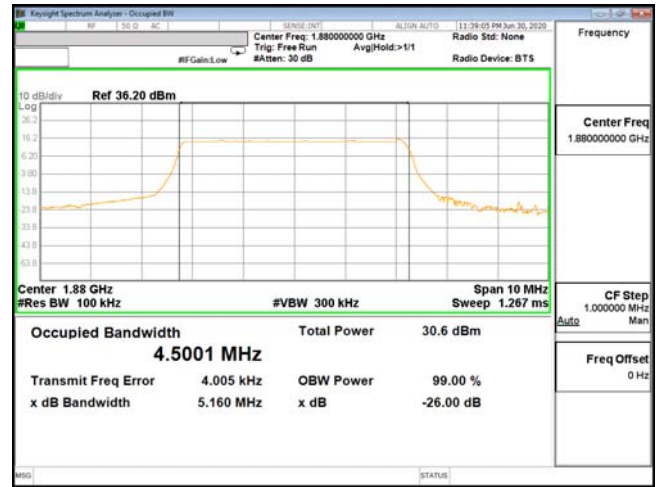
LTE Band 13								
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26 dB bandwidth (MHz)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5M	23205	779.5	4.4867	4.4718	4.4884	4.891	4.912	4.924
5M	23230	782	4.5188	4.5086	4.5121	4.980	4.963	4.987
5M	23255	784.5	4.5204	4.5072	4.5069	4.994	5.209	4.933
10M	23230	782	9.0330	9.0353	9.0345	9.950	9.976	9.951

LTE Band 66								
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26 dB bandwidth (MHz)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4M	131979	1710.7	1.0924	1.0960	1.0897	1.230	1.238	1.237
1.4M	132322	1745	1.0907	1.0982	1.0905	1.242	1.237	1.239
1.4M	132665	1779.3	1.0976	1.0924	1.0886	1.231	1.237	1.234
3M	131987	1711.5	2.7185	2.7291	2.7378	3.085	3.063	3.075
3M	132322	1745	2.7449	2.7224	2.7316	3.081	3.071	3.055
3M	132657	1778.5	2.7344	2.7290	2.7388	3.072	3.096	3.056
5M	131997	1712.5	4.5137	4.5051	4.5116	4.978	4.952	4.983
5M	132322	1745	4.5008	4.5037	4.5126	4.984	4.965	4.994
5M	132647	1777.5	4.5194	4.4870	4.5219	4.959	4.950	4.967
10M	132022	1715	9.0622	9.0493	9.0481	9.967	9.981	9.940
10M	132322	1745	9.0258	9.0515	9.0527	9.949	9.997	10.02
10M	132622	1775	9.0305	9.0275	9.0409	10.04	9.972	9.980
15M	132047	1717.5	13.479	13.475	13.481	14.68	14.67	14.70
15M	132322	1745	13.462	13.456	13.529	14.67	14.66	14.79
15M	132597	1772.5	13.465	13.504	13.470	14.66	14.70	14.74
20M	132072	1720	18.544	18.403	18.510	20.45	20.43	20.53
20M	132322	1745	18.531	18.464	18.489	20.56	20.47	20.53
20M	132572	1770	18.462	18.522	18.493	20.56	20.43	20.43

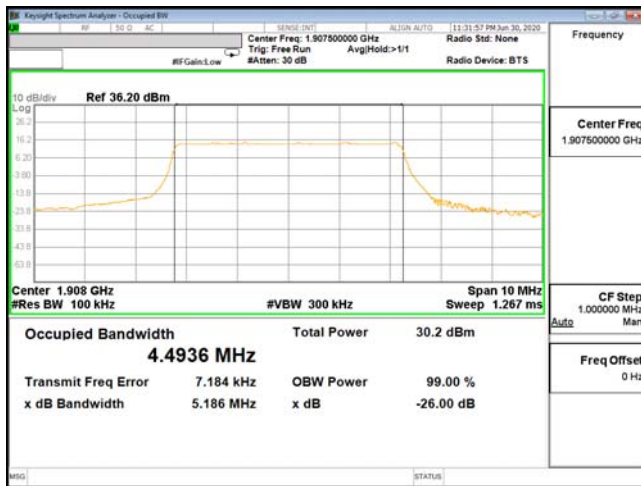
Product	LV55	Date of Test	2020/06/30
Test Mode	Occupied Bandwidth	Test Site	SR12-H
Test Condition	n2 (1900MHz)		



OCC-ENDC_5A_n2-PI2-BPSK_5M_CH370500_1852.5(25,0)



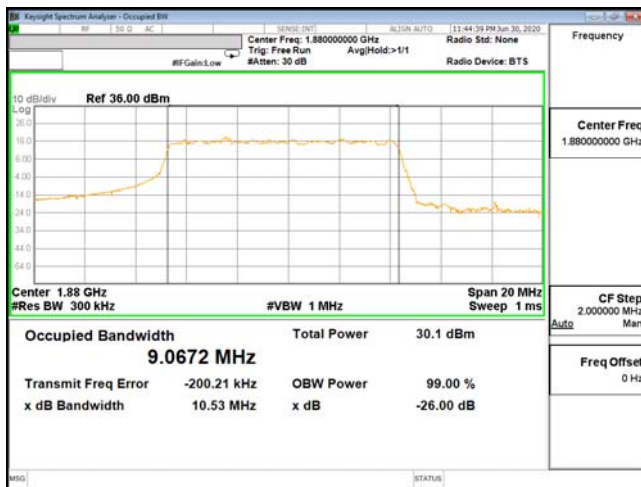
OCC-ENDC_5A_n2-PI2-BPSK_5M_CH376000_1880(25,0)



OCC-ENDC_5A_n2-PI2-BPSK_5M_CH381500_1907.5(25,0)



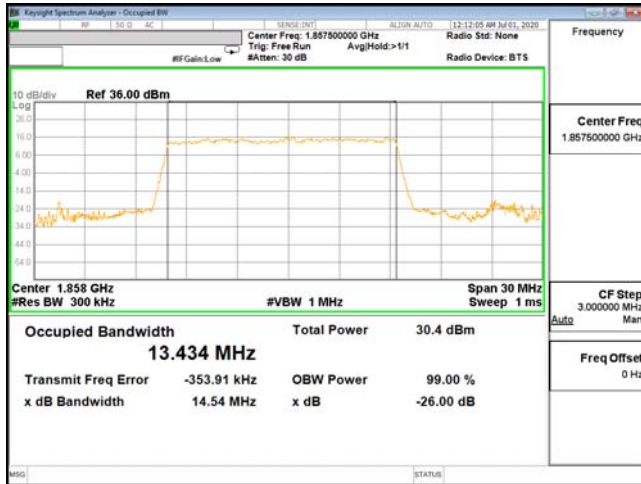
OCC-ENDC_5A_n2-PI2-BPSK_10M_CH371000_1855(50,0)



OCC-ENDC_5A_n2-PI2-BPSK_10M_CH376000_1880(50,0)



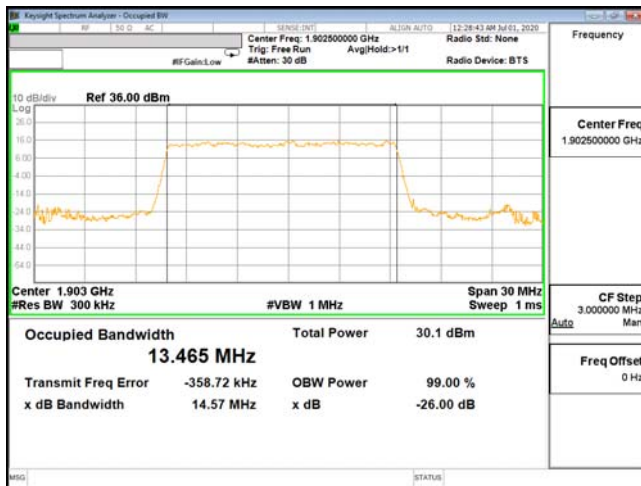
OCC-ENDC_5A_n2-PI2-BPSK_10M_CH381000_1905(50,0)



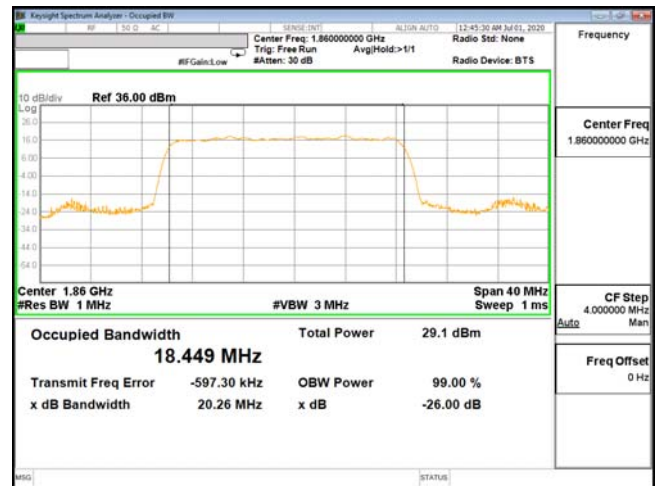
OCC-ENDC_5A_n2-PI2-BPSK_15M_CH371500_1857.5(75,0)



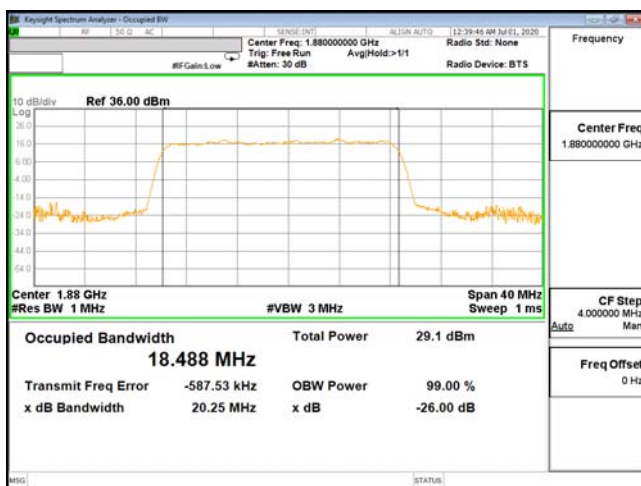
OCC-ENDC_5A_n2-PI2-BPSK_15M_CH376000_1880(75,0)



OCC-ENDC_5A_n2-PI2-BPSK_15M_CH380500_1902.5(75,0)



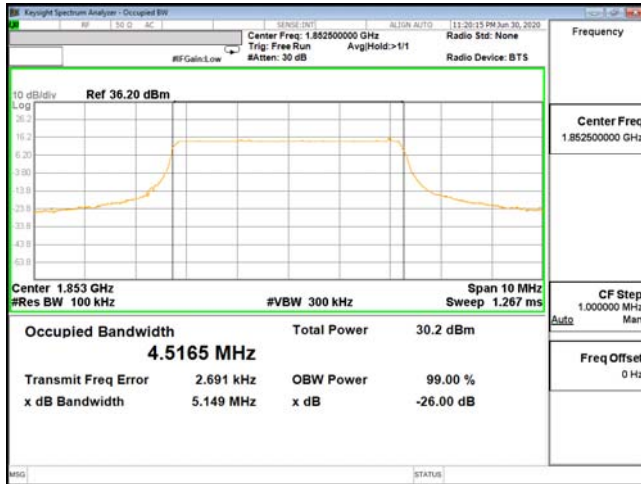
OCC-ENDC_5A_n2-PI2-BPSK_20M_CH372000_1860(100,0)



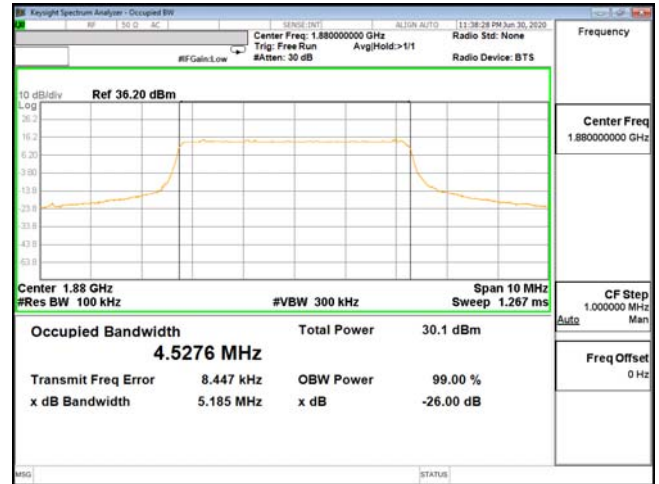
OCC-ENDC_5A_n2-PI2-BPSK_20M_CH376000_1880(100,0)



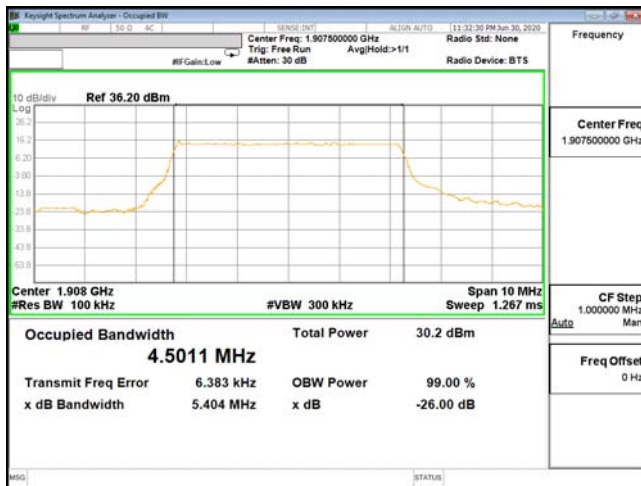
OCC-ENDC_5A_n2-PI2-BPSK_20M_CH380000_1900(100,0)



OCC-ENDC_5A_n2-QPSK_5M_CH370500_1852.5(25,0)



OCC-ENDC_5A_n2-QPSK_5M_CH376000_1880(25,0)



OCC-ENDC_5A_n2-QPSK_5M_CH381500_1907.5(25,0)



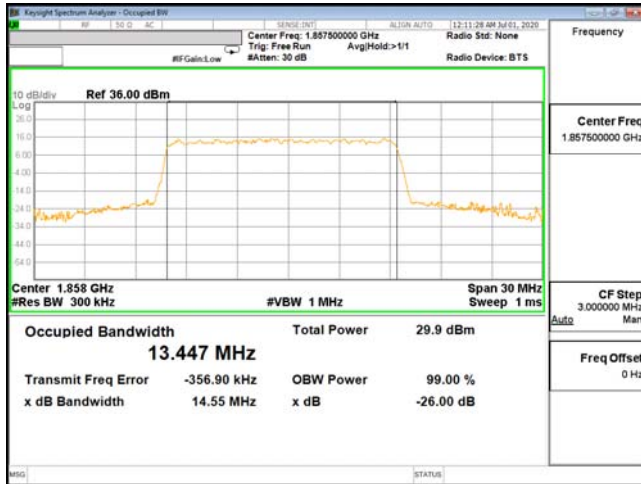
OCC-ENDC_5A_n2-QPSK_10M_CH371000_1855(50,0)



OCC-ENDC_5A_n2-QPSK_10M_CH376000_1880(50,0)



OCC-ENDC_5A_n2-QPSK_10M_CH381000_1905(50,0)



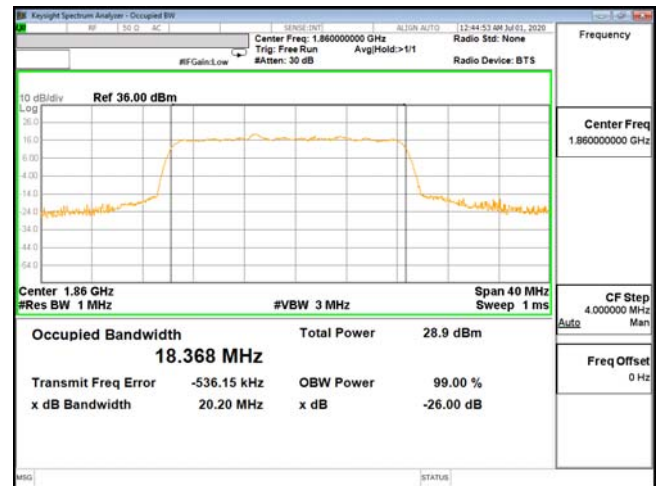
OCC-ENDC_5A_n2-QPSK_15M_CH371500_1857.5(75,0)



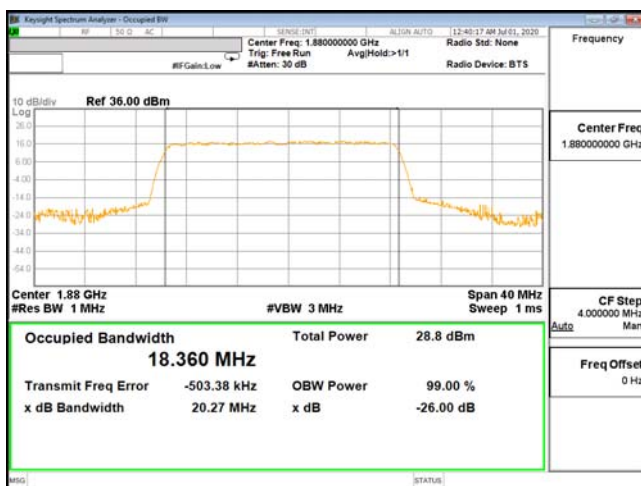
OCC-ENDC_5A_n2-QPSK_15M_CH376000_1880(75,0)



OCC-ENDC_5A_n2-QPSK_15M_CH380500_1902.5(75,0)



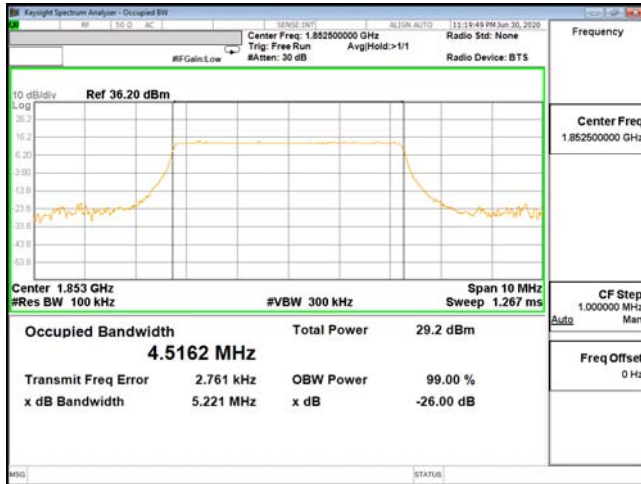
OCC-ENDC_5A_n2-QPSK_20M_CH372000_1860(100,0)



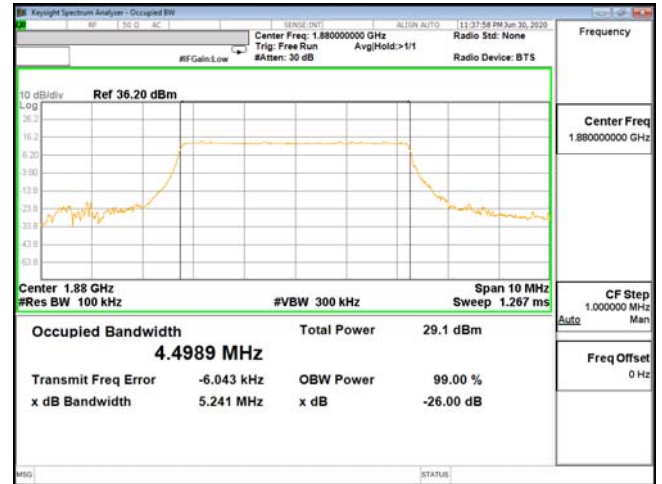
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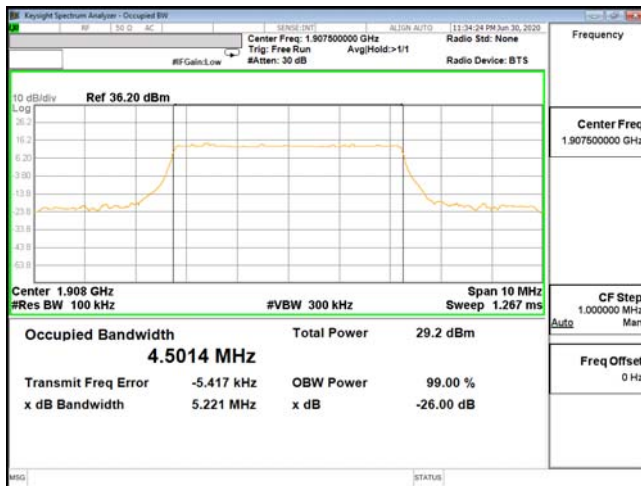
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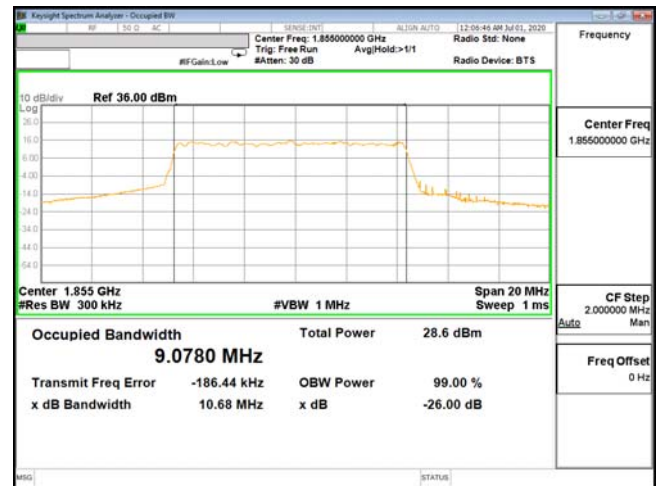
OCC-ENDC_5A_n2-16QAM_5M_CH370500_1852.5(25,0)



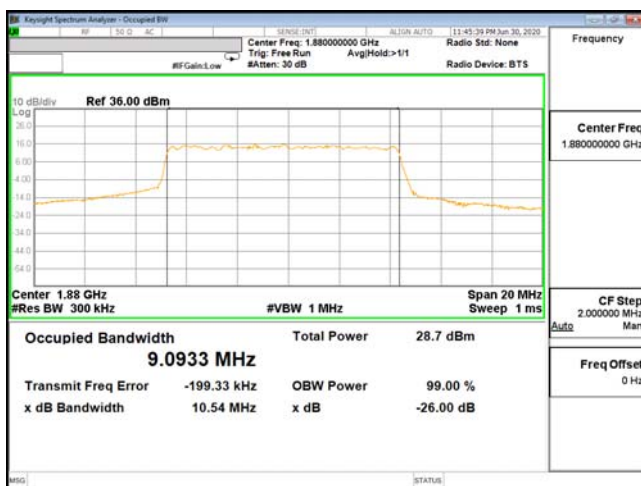
OCC-ENDC_5A_n2-16QAM_5M_CH376000_1880(25,0)



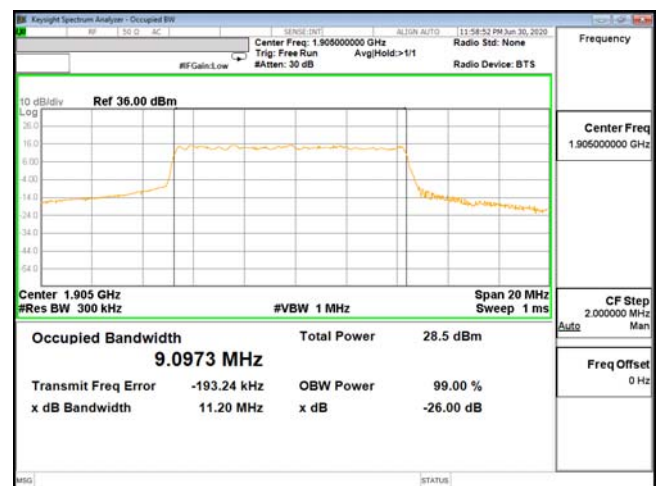
OCC-ENDC_5A_n2-16QAM_5M_CH381500_1907.5(25,0)



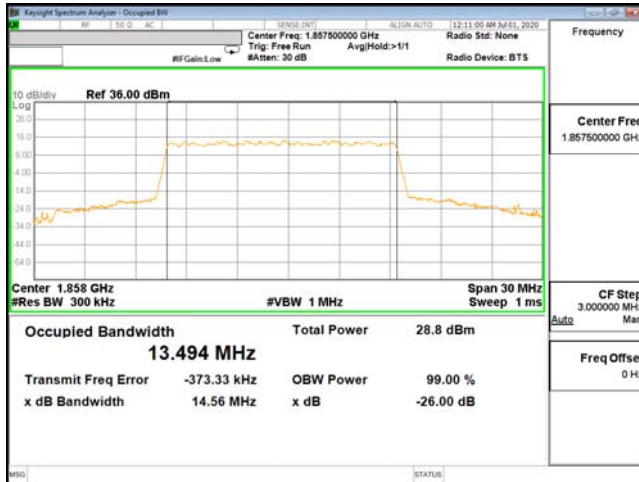
OCC-ENDC_5A_n2-16QAM_10M_CH371000_1855(50,0)



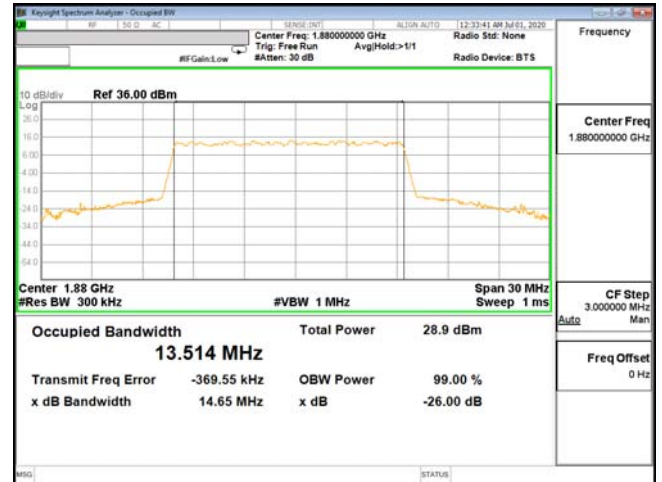
OCC-ENDC_5A_n2-16QAM_10M_CH376000_1880(50,0)



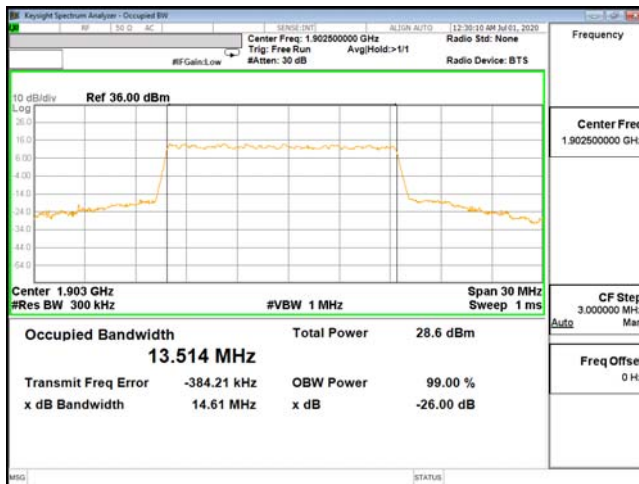
OCC-ENDC_5A_n2-16QAM_10M_CH381000_1905(50,0)



OCC-ENDC_5A_n2-16QAM_15M_CH371500_1857.5(75,0)



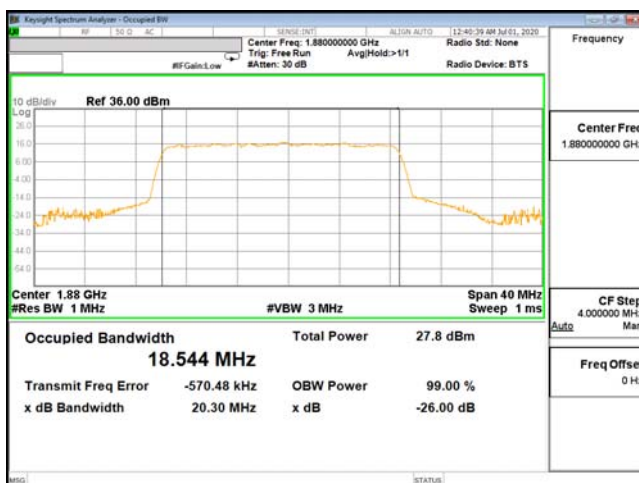
OCC-ENDC_5A_n2-16QAM_15M_CH376000_1880(75,0)



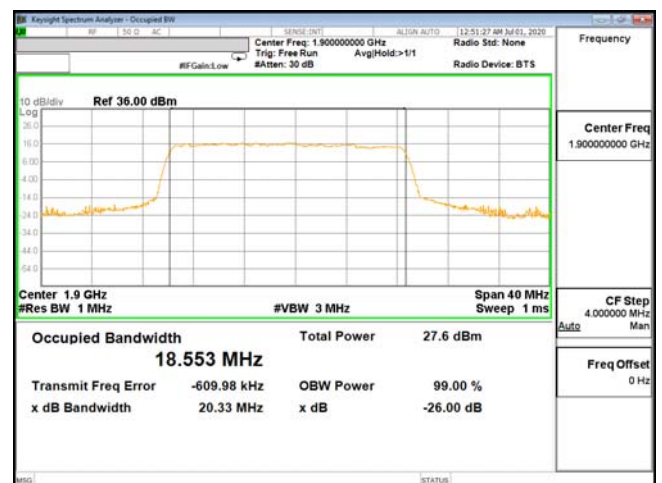
OCC-ENDC_5A_n2-16QAM_15M_CH380500_1902.5(75,0)



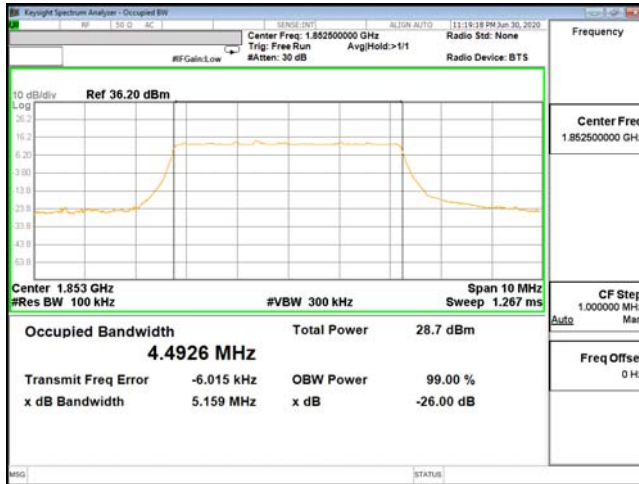
OCC-ENDC_5A_n2-16QAM_20M_CH372000_1860(100,0)



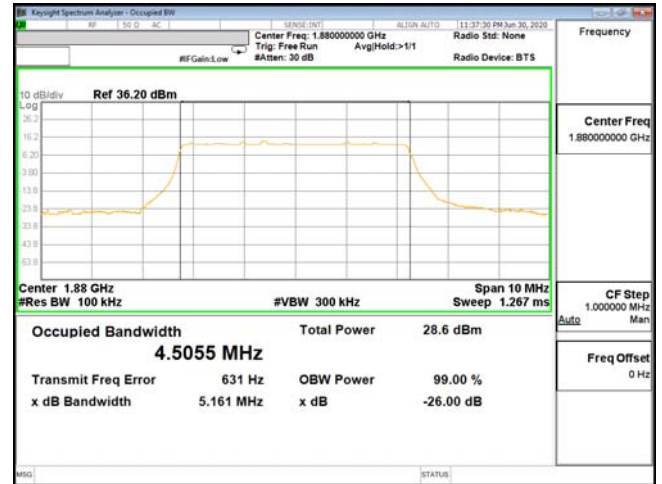
OCC-ENDC_5A_n2-16QAM_20M_CH376000_1880(100,0)



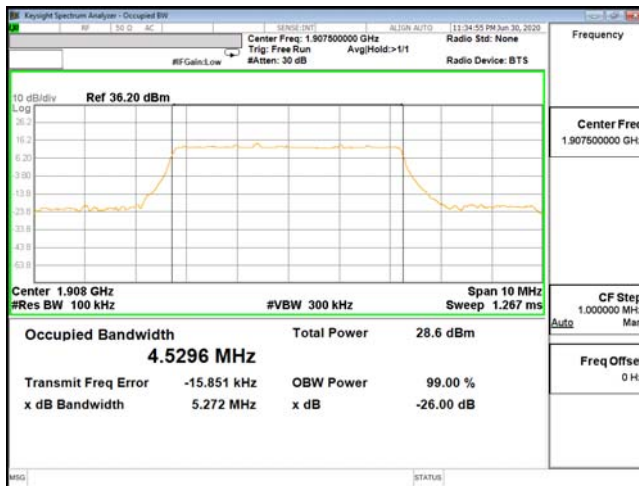
OCC-ENDC_5A_n2-16QAM_20M_CH380000_1900(100,0)



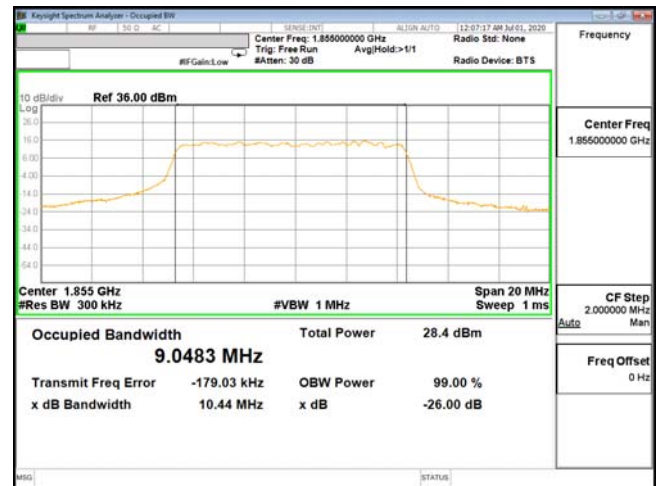
OCC-ENDC_5A_n2-64QAM_5M_CH370500_1852.5(25,0)



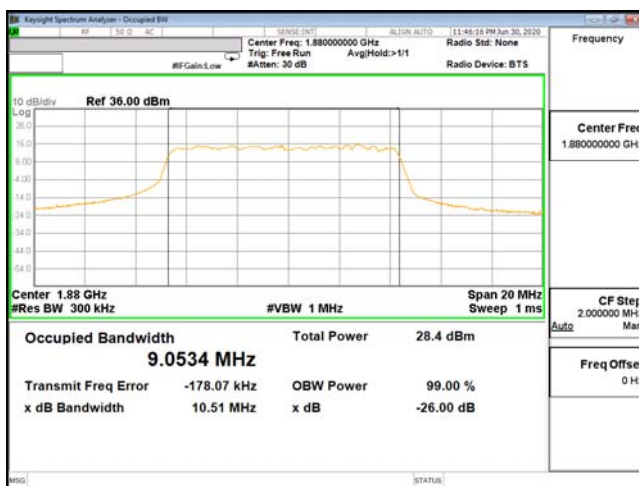
OCC-ENDC_5A_n2-64QAM_5M_CH376000_1880(25,0)



OCC-ENDC_5A_n2-64QAM_5M_CH381500_1907.5(25,0)



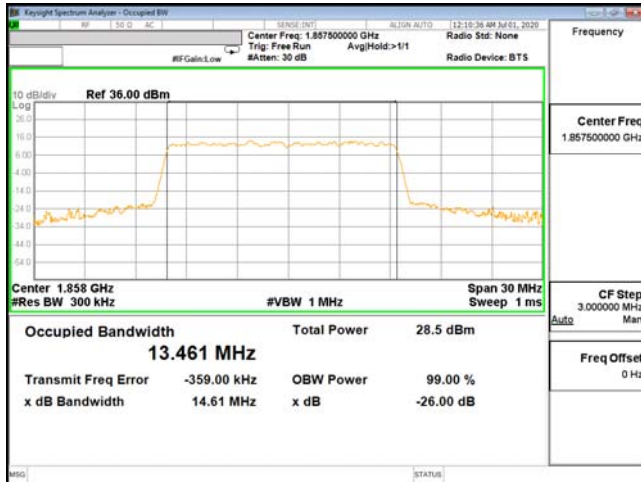
OCC-ENDC_5A_n2-64QAM_10M_CH371000_1855(50,0)



OCC-ENDC_5A_n2-64QAM_10M_CH376000_1880(50,0)



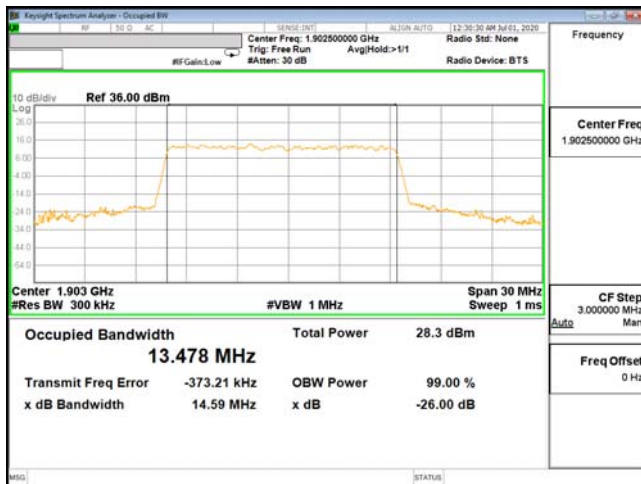
OCC-ENDC_5A_n2-64QAM_10M_CH381000_1905(50,0)



OCC-ENDC_5A_n2-64QAM_15M_CH371500_1857.5(75,0)



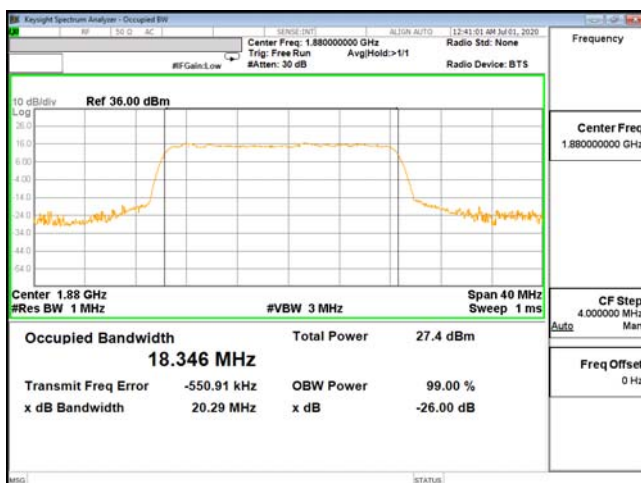
OCC-ENDC_5A_n2-64QAM_15M_CH376000_1880(75,0)



OCC-ENDC_5A_n2-64QAM_15M_CH380500_1902.5(75,0)



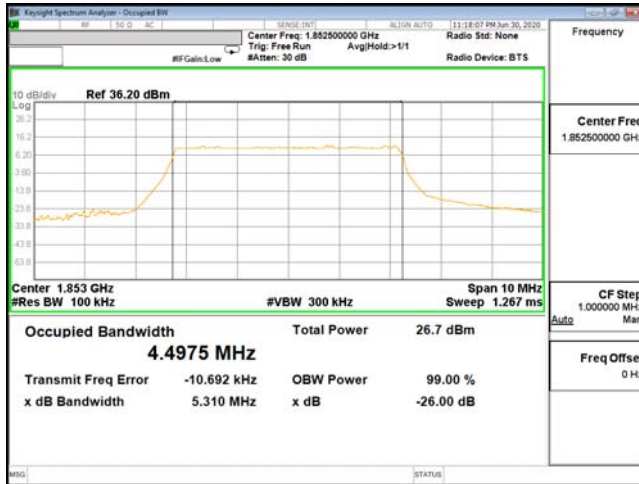
OCC-ENDC_5A_n2-64QAM_20M_CH372000_1860(100,0)



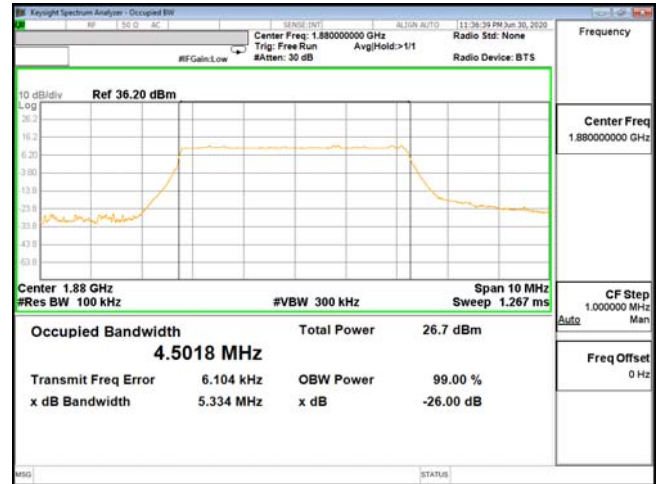
OCC-ENDC_5A_n2-64QAM_20M_CH376000_1880(100,0)



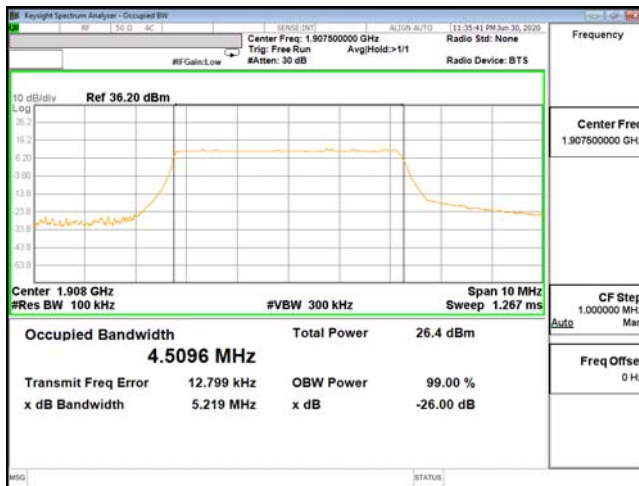
OCC-ENDC_5A_n2-64QAM_20M_CH380000_1900(100,0)



OCC-ENDC_5A_n2-256QAM_5M_CH370500_1852.5(25,0)



OCC-ENDC_5A_n2-256QAM_5M_CH376000_1880(25,0)



OCC-ENDC_5A_n2-256QAM_5M_CH381500_1907.5(25,0)



OCC-ENDC_5A_n2-256QAM_10M_CH371000_1855(50,0)



OCC-ENDC_5A_n2-256QAM_10M_CH376000_1880(50,0)



OCC-ENDC_5A_n2-256QAM_10M_CH381000_1905(50,0)



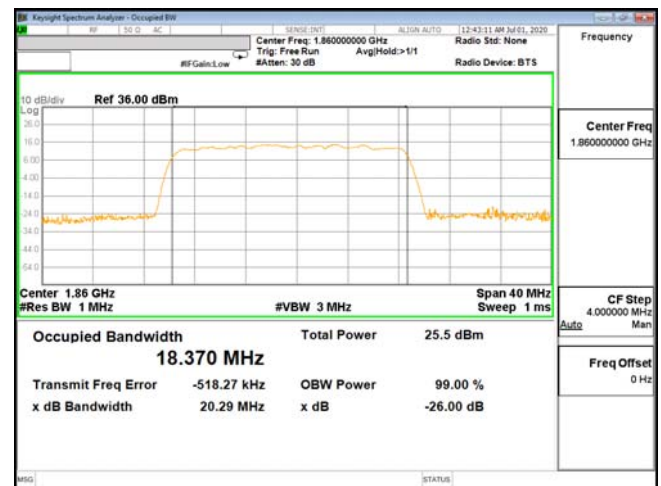
OCC-ENDC_5A_n2-256QAM_15M_CH371500_1857.5(75,0)



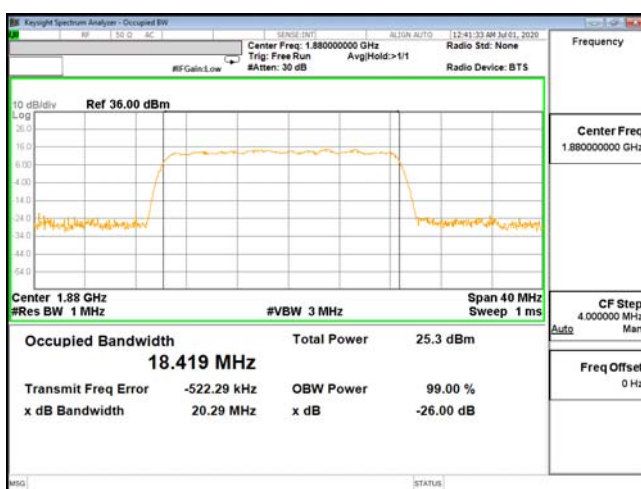
OCC-ENDC_5A_n2-256QAM_15M_CH376000_1880(75,0)



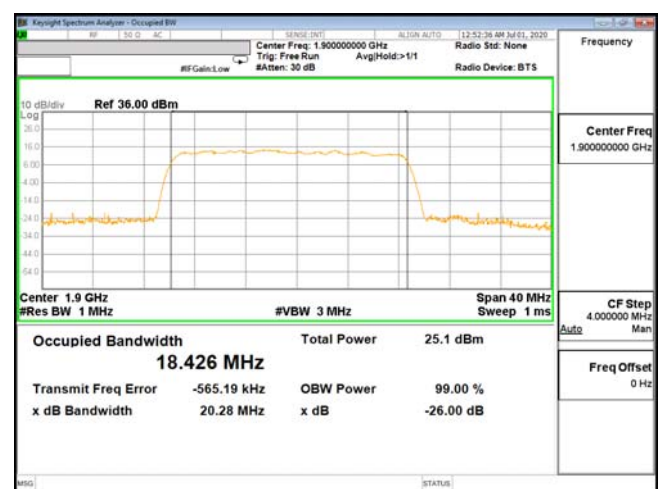
OCC-ENDC_5A_n2-256QAM_15M_CH380500_1902.5(75,0)



OCC-ENDC_5A_n2-256QAM_20M_CH372000_1860(100,0)

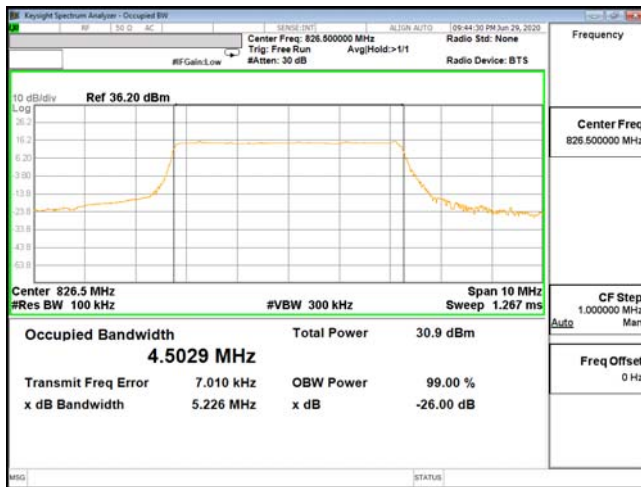


OCC-ENDC_5A_n2-256QAM_20M_CH376000_1880(100,0)

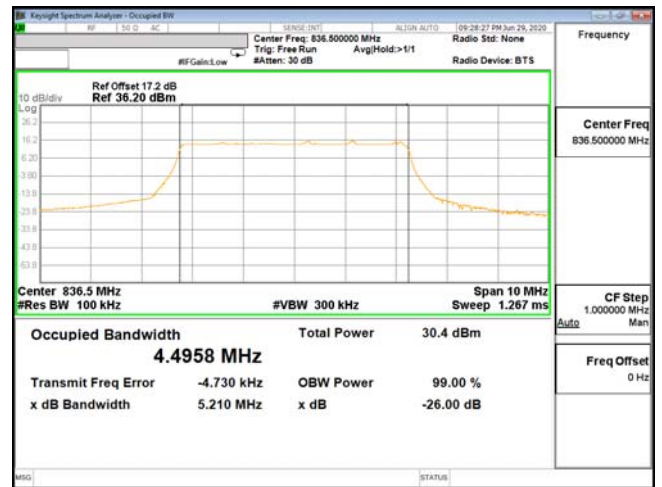


OCC-ENDC_5A_n2-256QAM_20M_CH380000_1900(100,0)

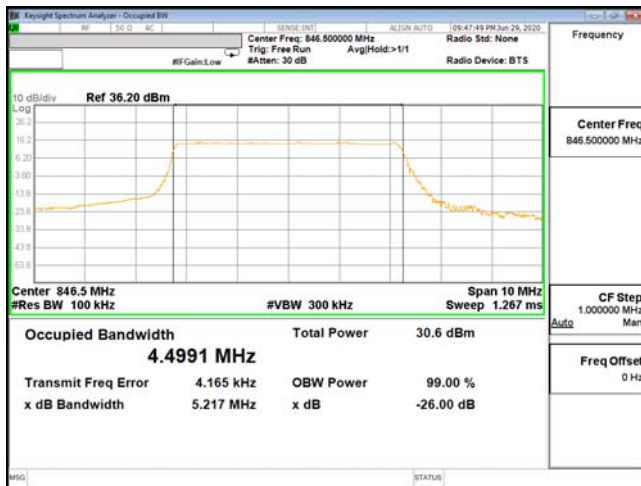
Product	LV55	Date of Test	2020/06/30
Test Mode	Occupied Bandwidth	Test Site	SR12-H
Test Condition	n5 (850MHz)		



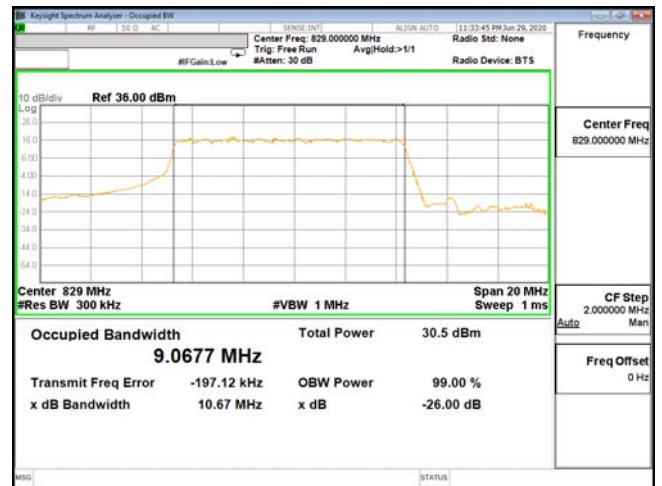
OCC-ENDC_2A_n5-PI2-BPSK_5M_CH165300_826.5(25,0)



OCC-ENDC_2A_n5-PI2-BPSK_5M_CH167300_836.5(25,0)



OCC-ENDC_2A_n5-PI2-BPSK_5M_CH169300_846.5(25,0)



OCC-ENDC_2A_n5-PI2-BPSK_10M_CH165800_829(50,0)



OCC-ENDC_2A_n5-PI2-BPSK_10M_CH167300_836.5(50,0)



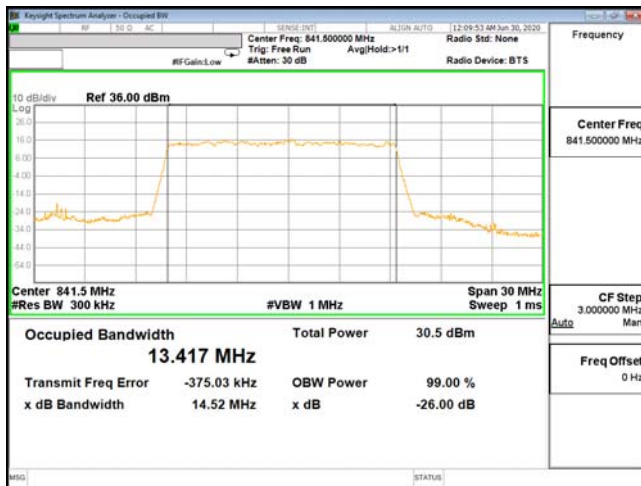
OCC-ENDC_2A_n5-PI2-BPSK_10M_CH168800_844(50,0)



OCC-ENDC_2A_n5-PI2-BPSK_15M_CH166300_831.5(75,0)



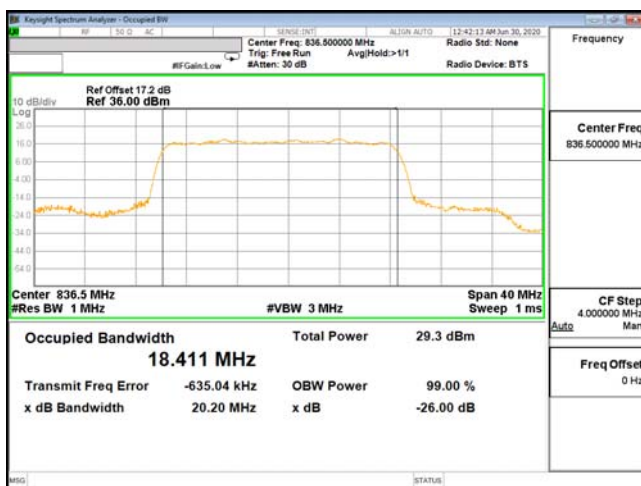
OCC-ENDC_2A_n5-PI2-BPSK_15M_CH167300_836.5(75,0)



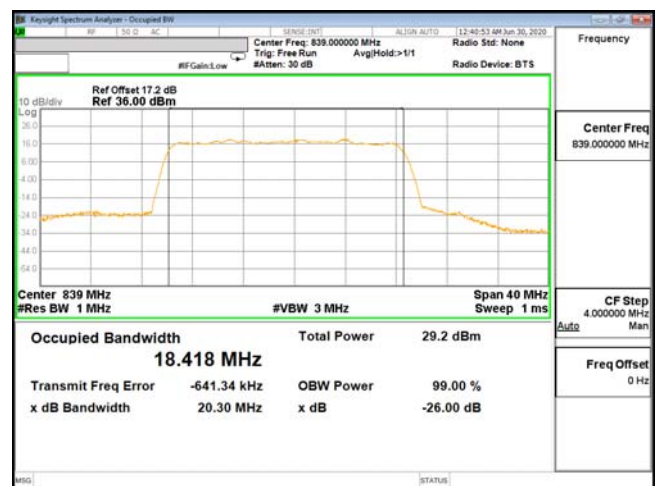
OCC-ENDC_2A_n5-PI2-BPSK_15M_CH168300_841.5(75,0)



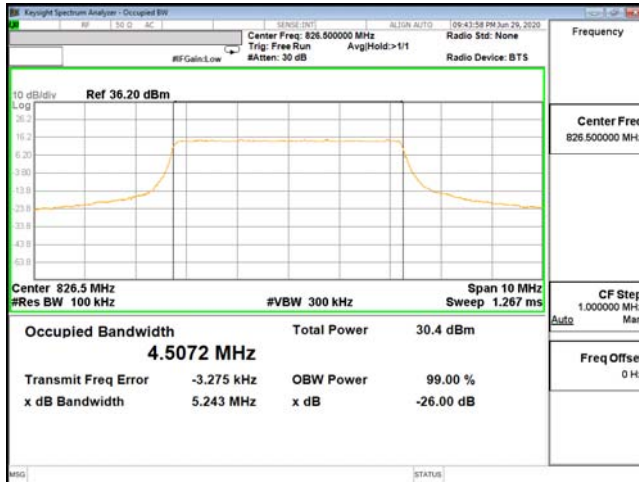
OCC-ENDC_2A_n5-PI2-BPSK_20M_CH166800_834(100,0)



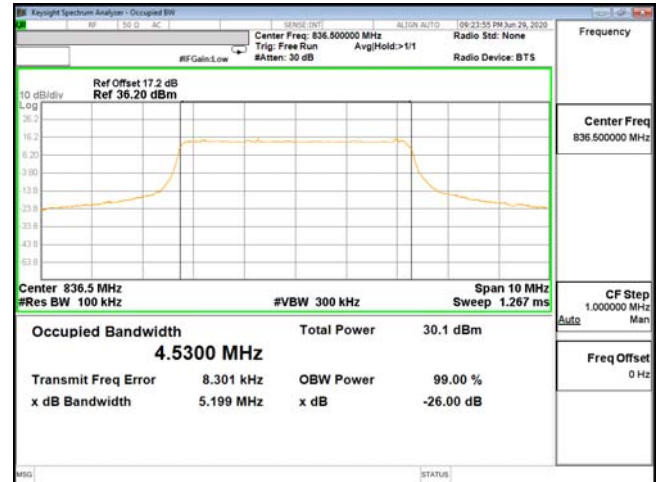
OCC-ENDC_2A_n5-PI2-BPSK_20M_CH167300_836.5(100,0)



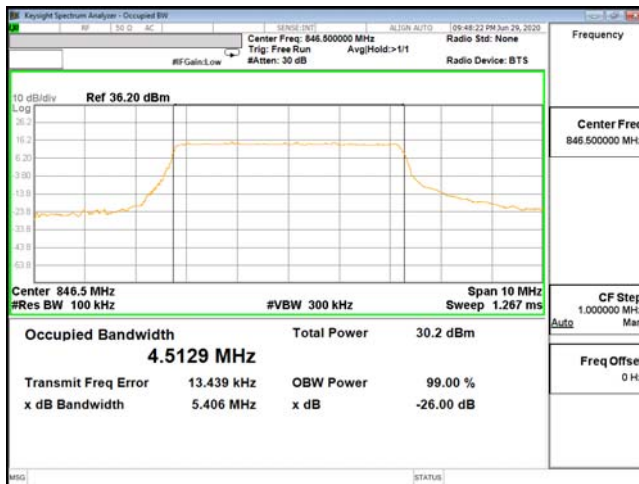
OCC-ENDC_2A_n5-PI2-BPSK_20M_CH167800_839(100,0)



OCC-ENDC_2A_n5-QPSK_5M_CH165300_826.5(25,0)



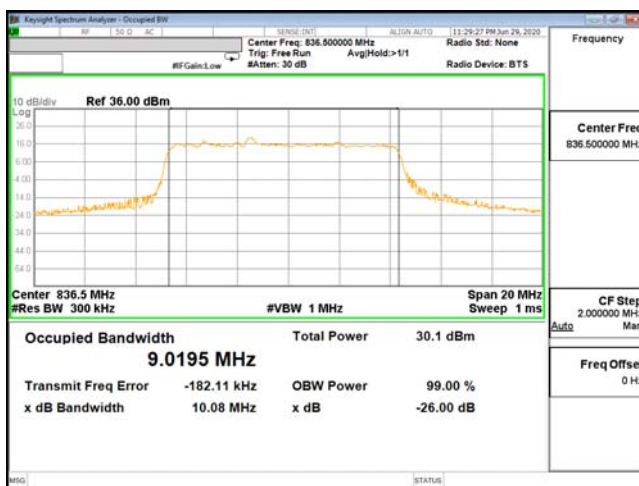
OCC-ENDC_2A_n5-QPSK_5M_CH167300_836.5(25,0)



OCC-ENDC_2A_n5-QPSK_5M_CH169300_846.5(25,0)



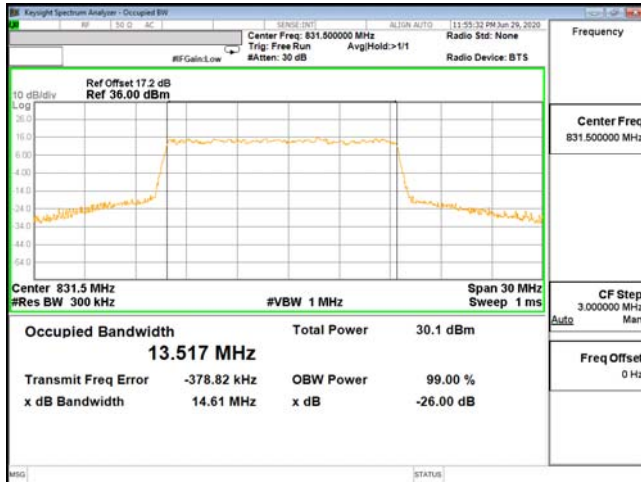
OCC-ENDC_2A_n5-QPSK_10M_CH165800_829(50,0)



OCC-ENDC_2A_n5-QPSK_10M_CH167300_836.5(50,0)



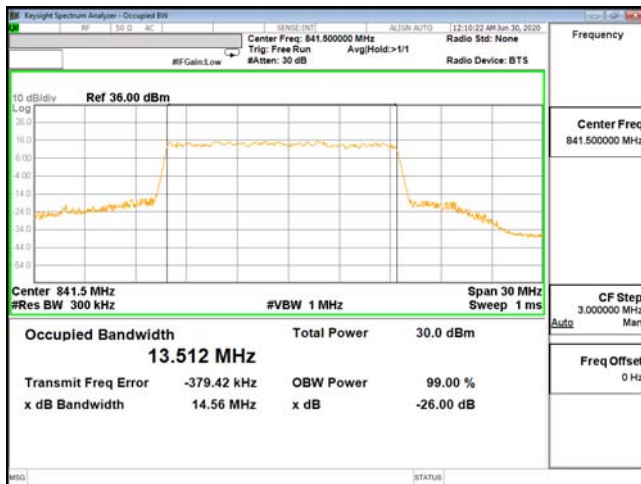
OCC-ENDC_2A_n5-QPSK_10M_CH168800_844(50,0)



OCC-ENDC_2A_n5-QPSK_15M_CH166300_831.5(75,0)



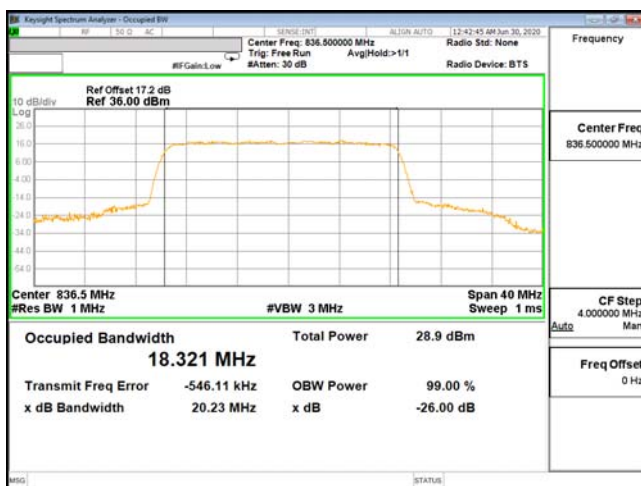
OCC-ENDC_2A_n5-QPSK_15M_CH167300_836.5(75,0)



OCC-ENDC_2A_n5-QPSK_15M_CH168300_841.5(75,0)



OCC-ENDC_2A_n5-QPSK_20M_CH166800_834(100,0)



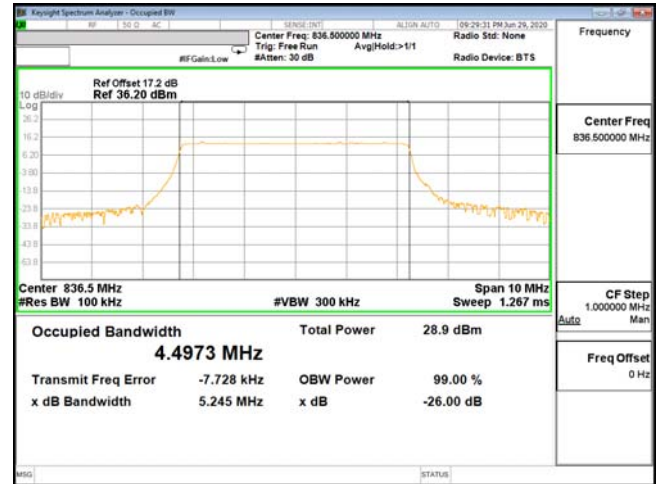
OCC-ENDC_2A_n5-QPSK_20M_CH167300_836.5(100,0)



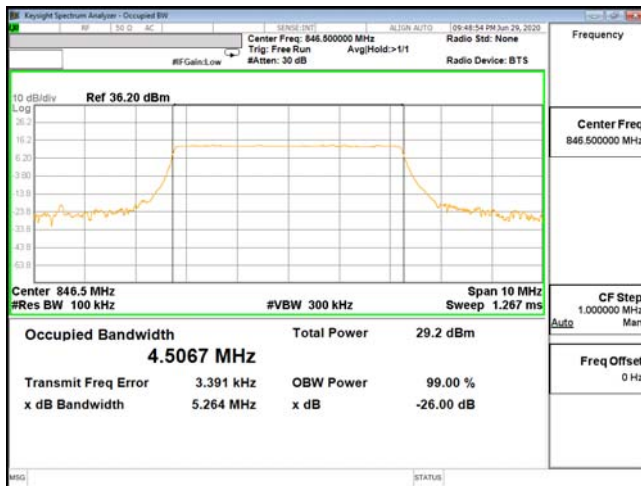
OCC-ENDC_2A_n5-QPSK_20M_CH167800_839(100,0)



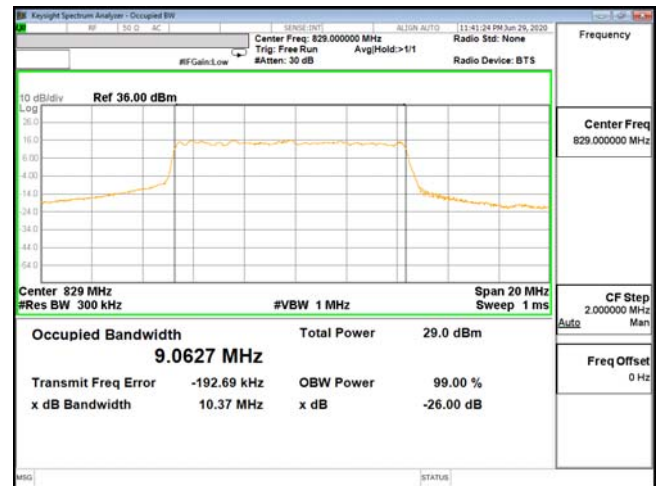
OCC-ENDC_2A_n5-16QAM_5M_CH165300_826.5(25,0)



OCC-ENDC_2A_n5-16QAM_5M_CH167300_836.5(25,0)



OCC-ENDC_2A_n5-16QAM_5M_CH169300_846.5(25,0)



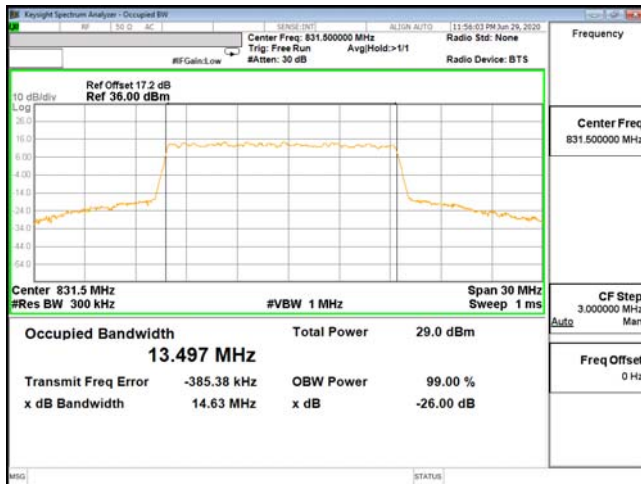
OCC-ENDC_2A_n5-16QAM_10M_CH165800_829(50,0)



OCC-ENDC_2A_n5-16QAM_10M_CH167300_836.5(50,0)



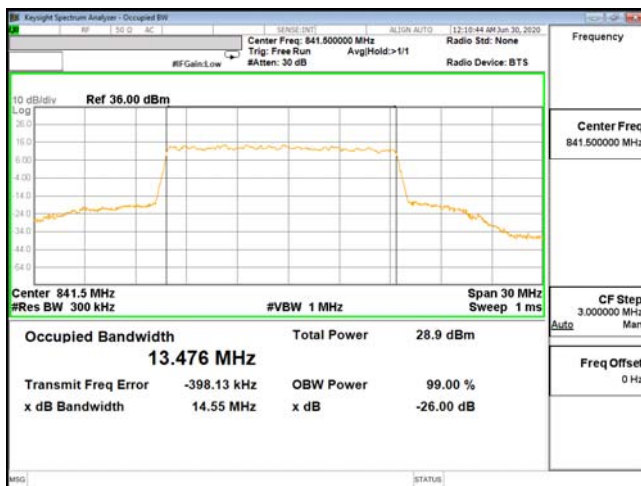
OCC-ENDC_2A_n5-16QAM_10M_CH168800_844(50,0)



OCC-ENDC_2A_n5-16QAM_15M_CH166300_831.5(75,0)



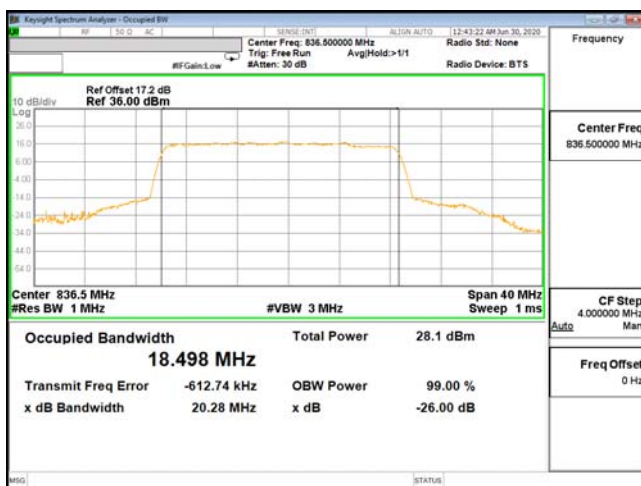
OCC-ENDC_2A_n5-16QAM_15M_CH167300_836.5(75,0)



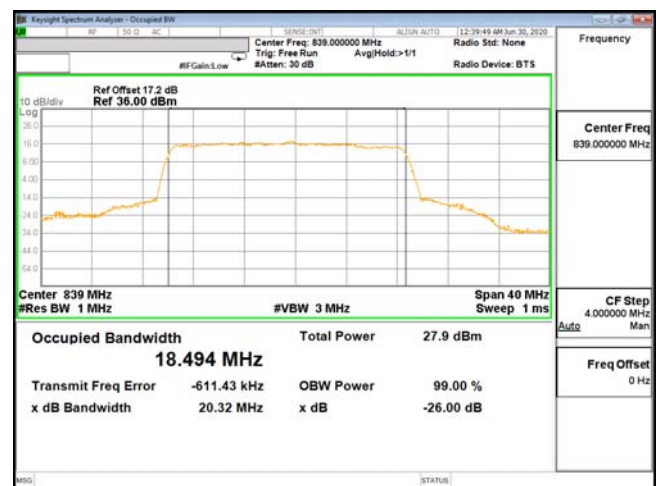
OCC-ENDC_2A_n5-16QAM_15M_CH168300_841.5(75,0)



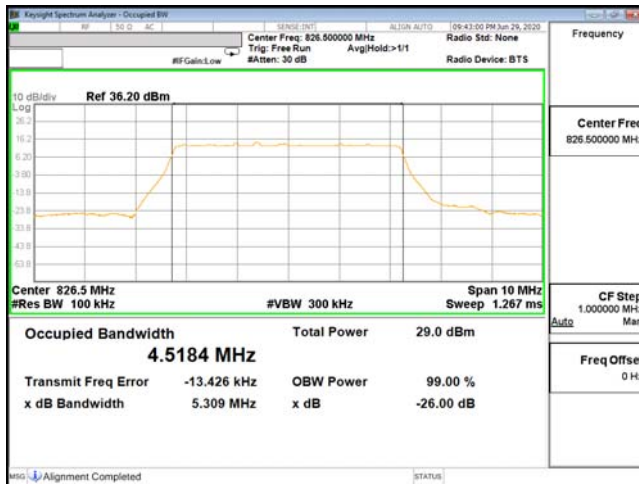
OCC-ENDC_2A_n5-16QAM_20M_CH166800_834(100,0)



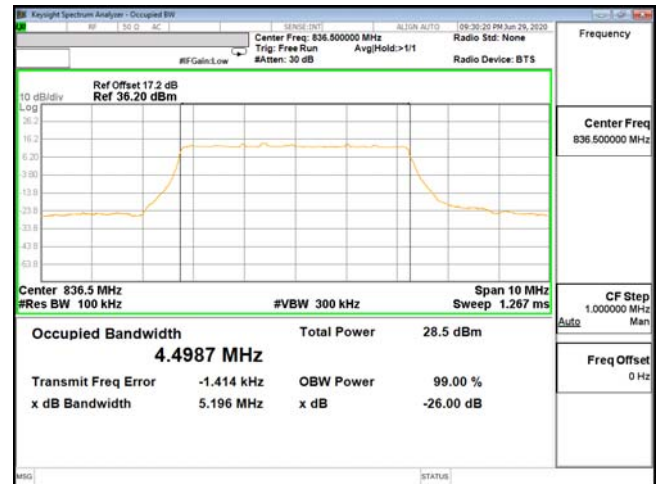
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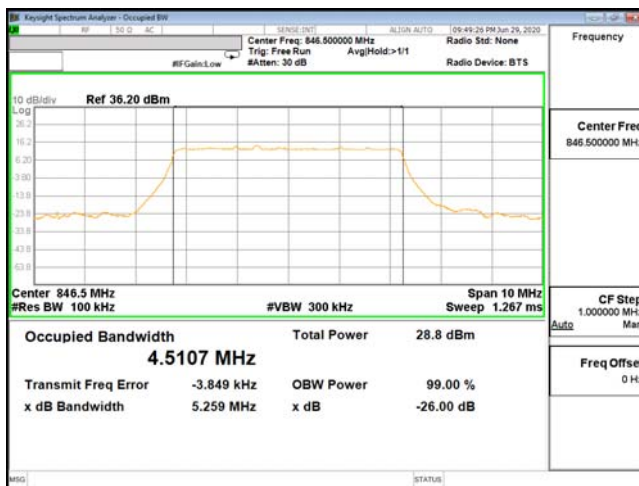
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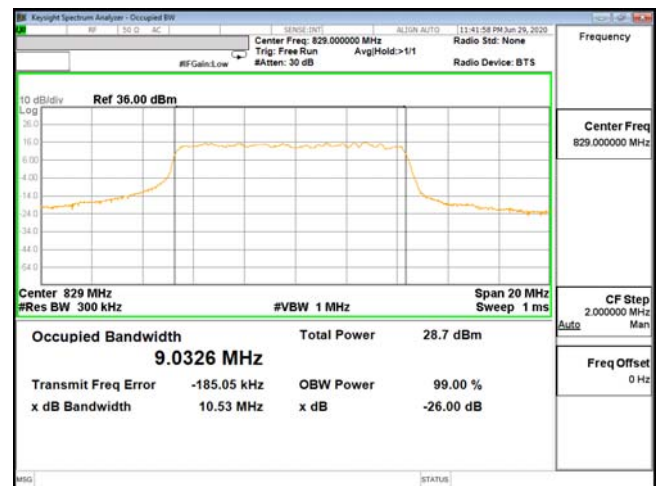
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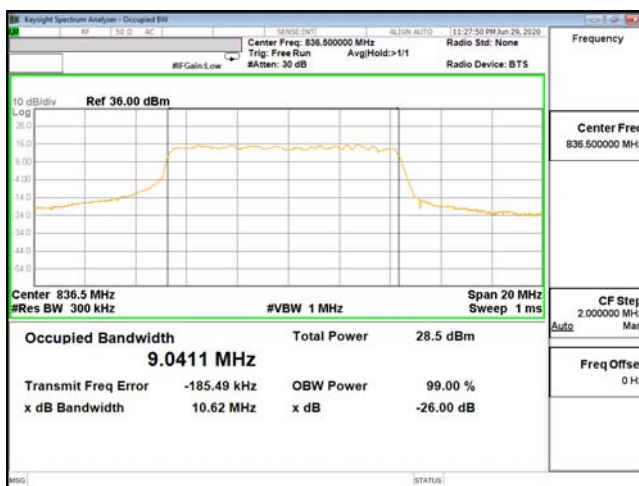
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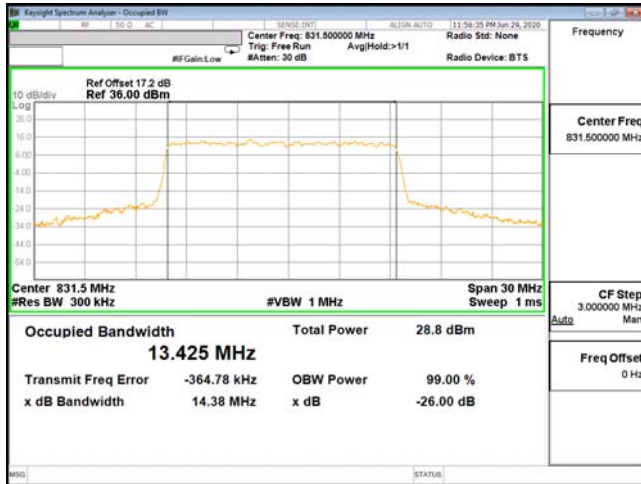
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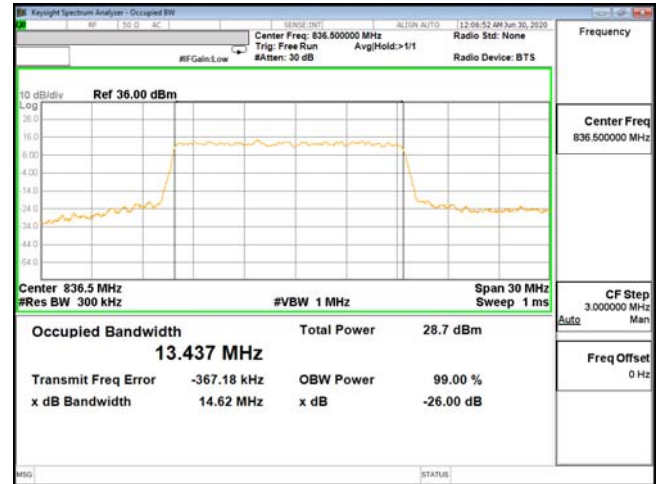
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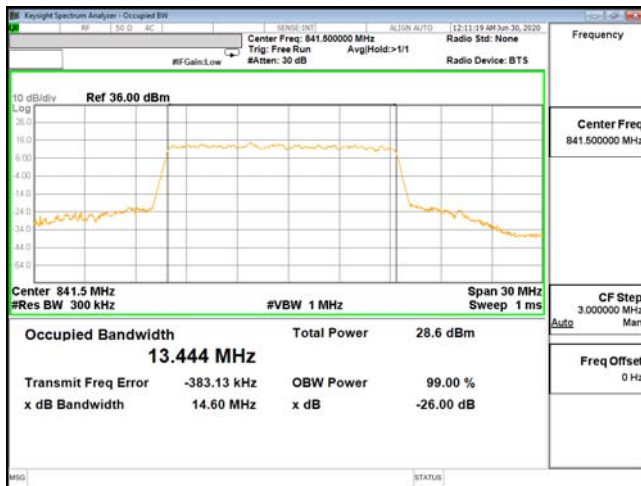
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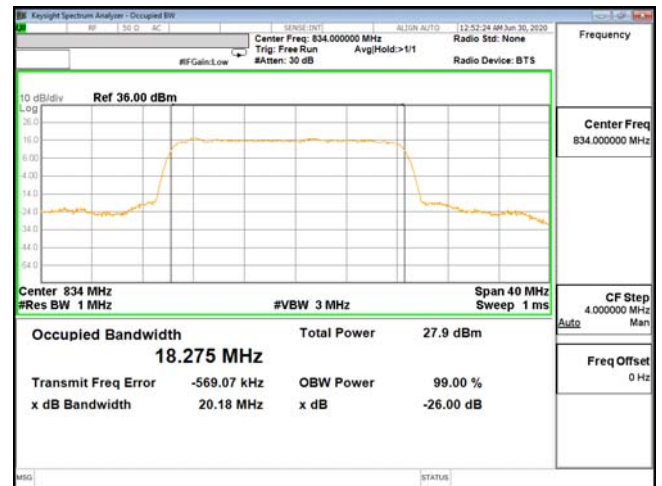
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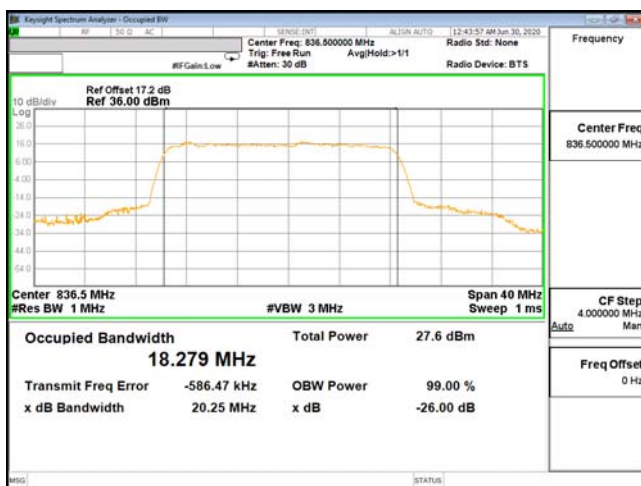
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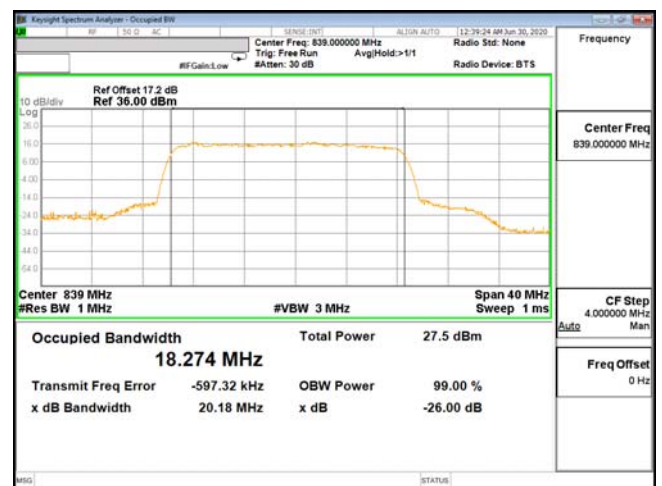
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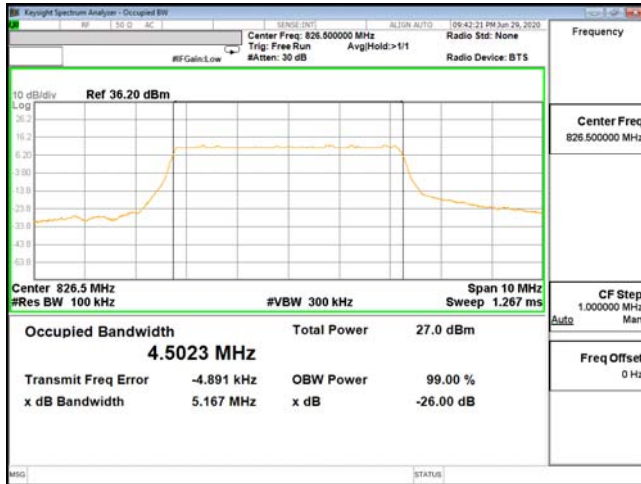
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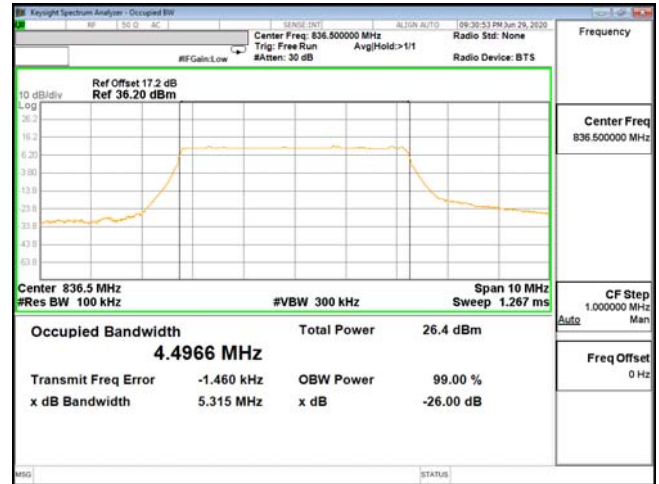
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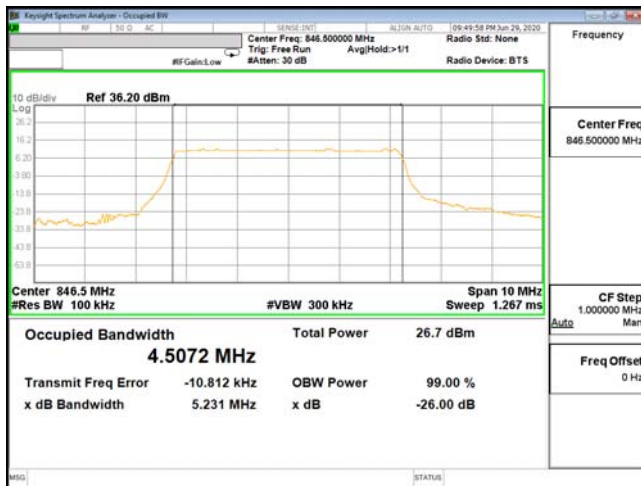
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OCC-ENDC_2A_n5-256QAM_5M_CH165300_826.5(25,0)



OCC-ENDC_2A_n5-256QAM_5M_CH167300_836.5(25,0)



OCC-ENDC_2A_n5-256QAM_5M_CH169300_846.5(25,0)



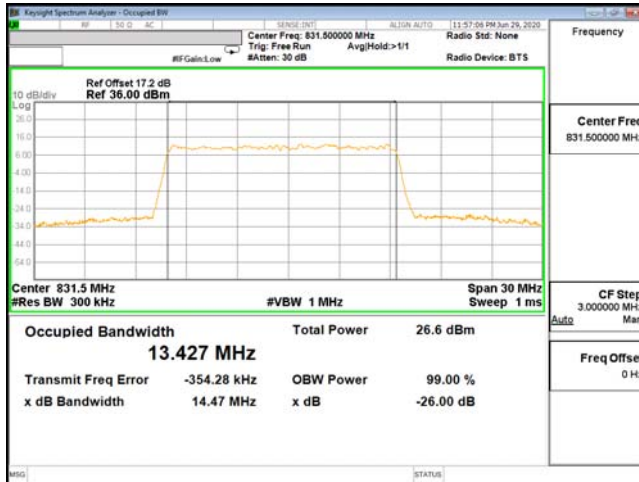
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OCC-ENDC_2A_n5-256QAM_10M_CH167300_836.5(50,0)



OCC-ENDC_2A_n5-256QAM_10M_CH168800_844(50,0)



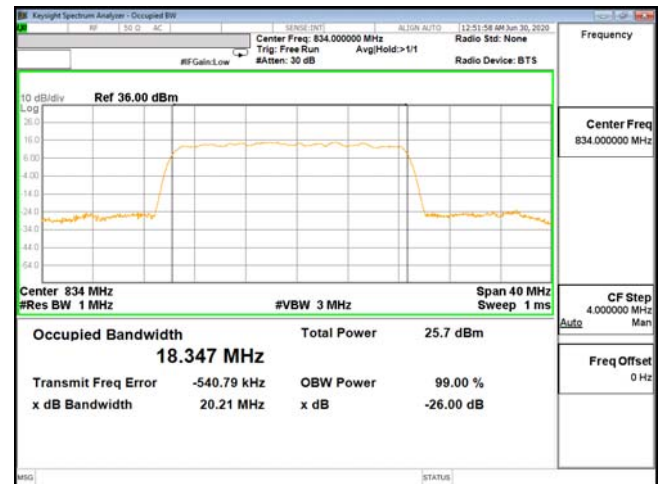
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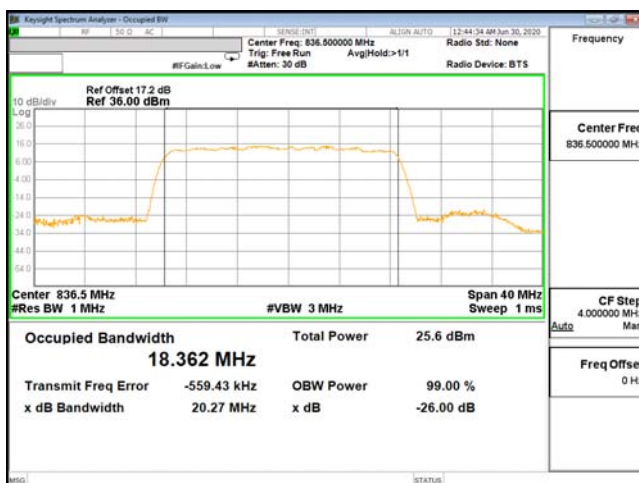
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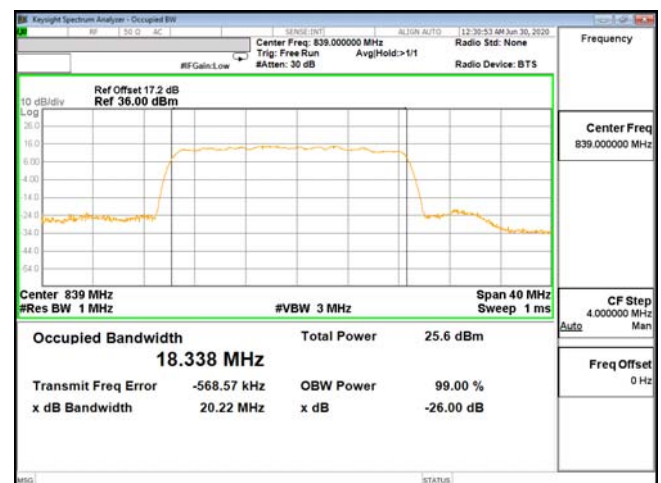
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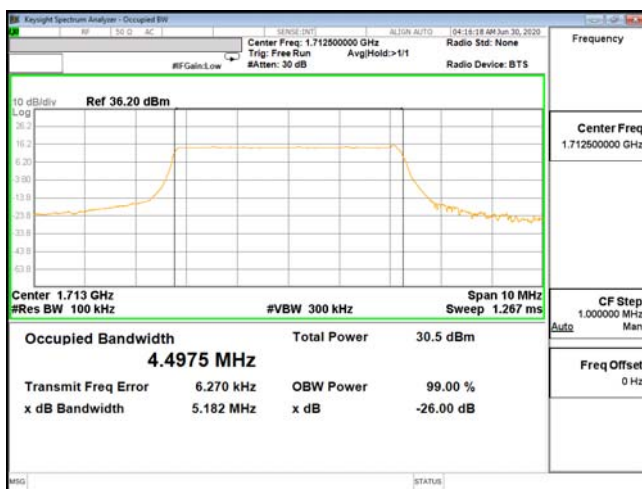


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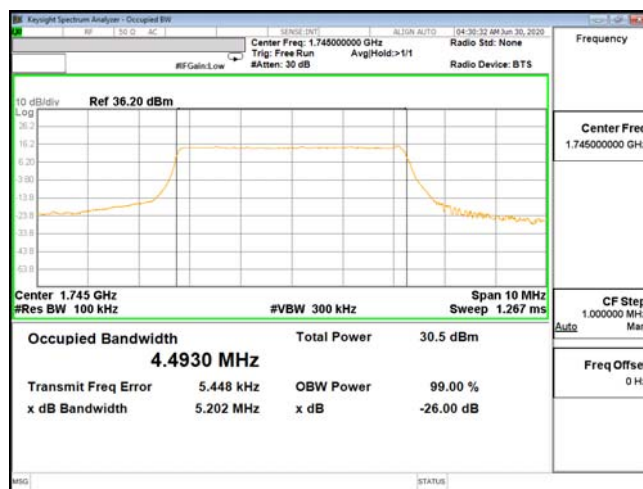


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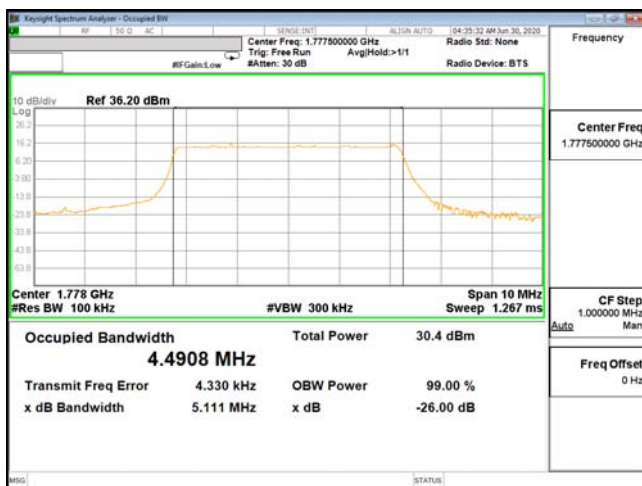
Product	LV55	Date of Test	2020/06/30
Test Mode	Occupied Bandwidth	Test Site	SR12-H
Test Condition	n66 (1700MHz)		



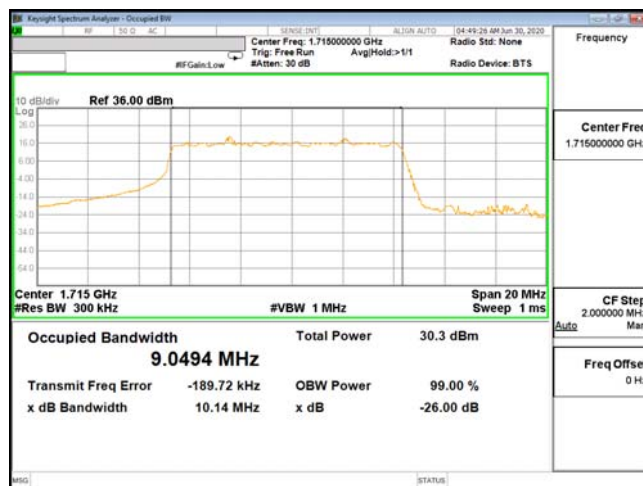
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OCC-ENDC_13A_n66-PI2-BPSK_5M_CH349000_1745(25,0)



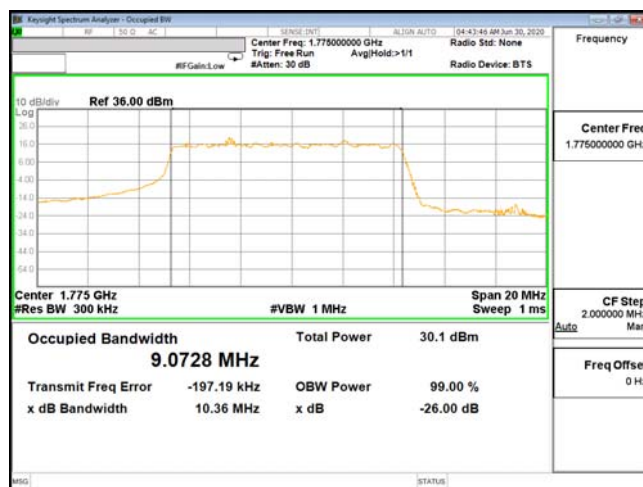
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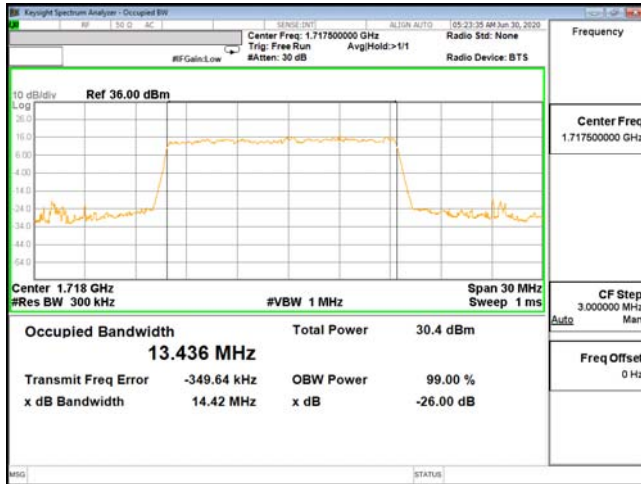
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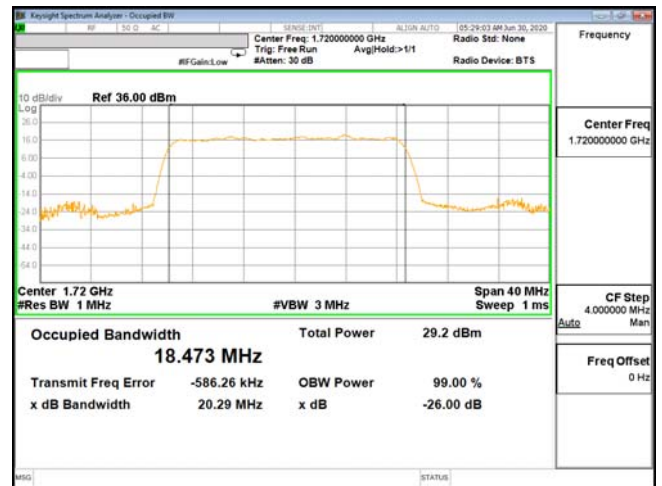
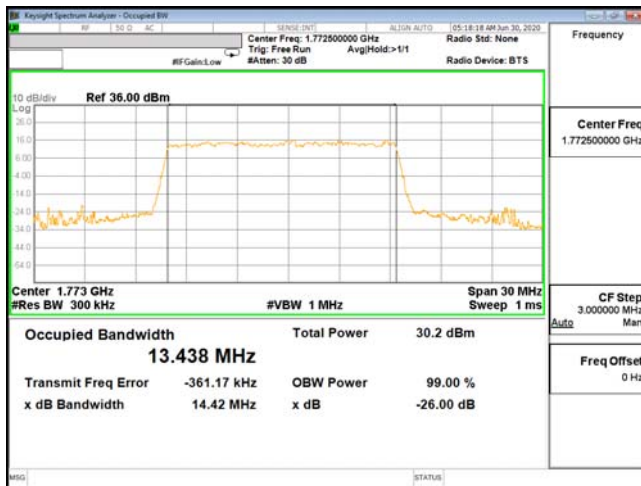


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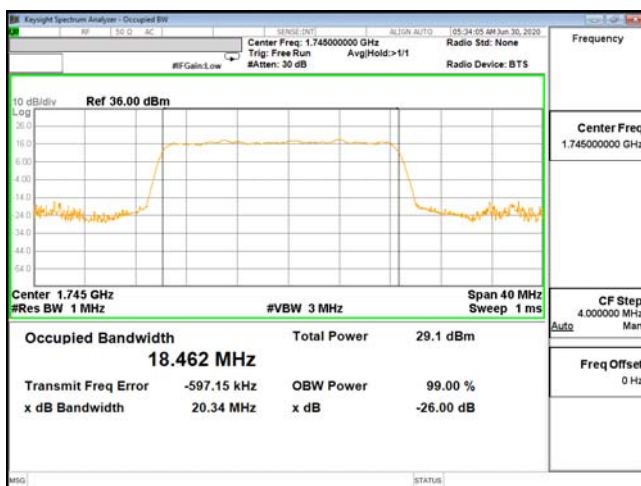
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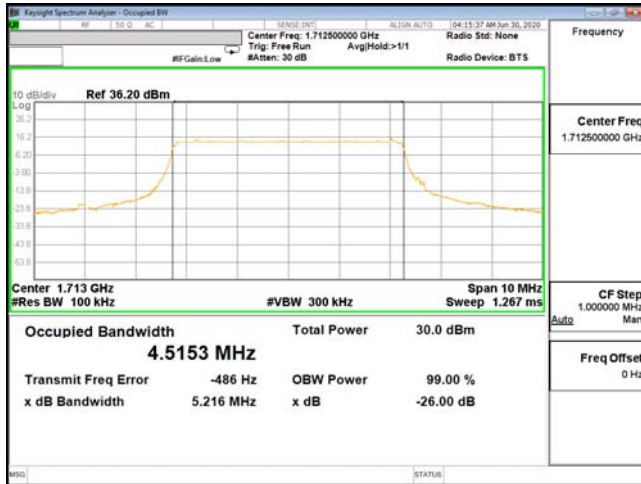
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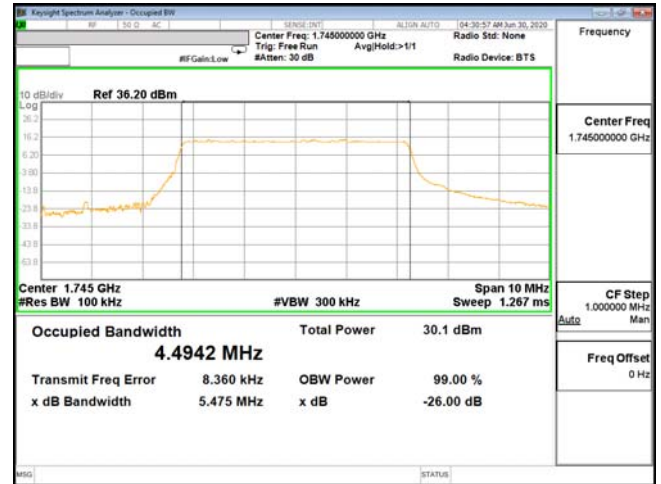


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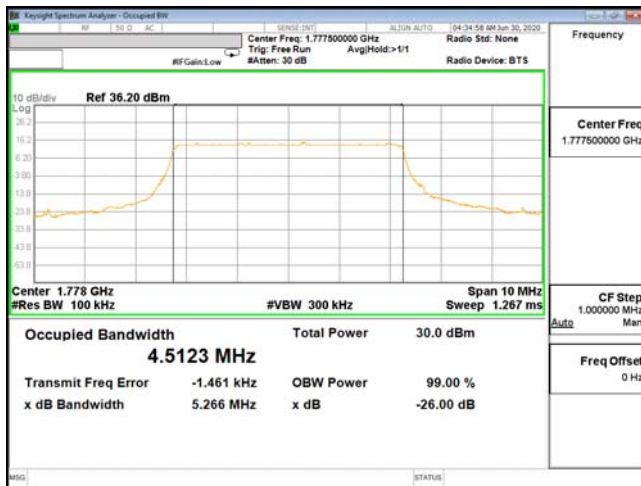
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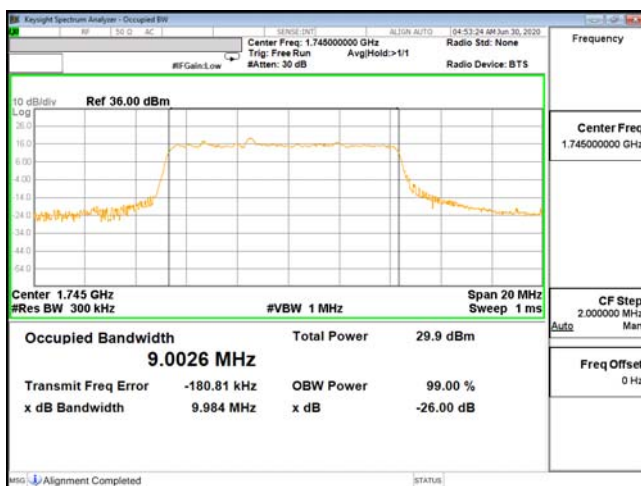
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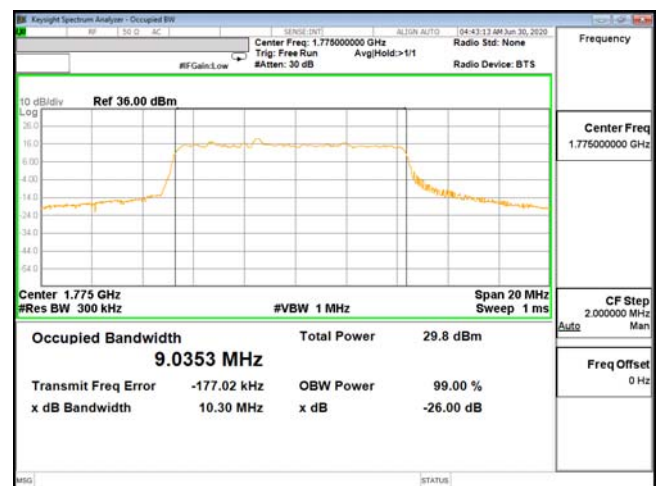
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OCC-ENDC_13A_n66-QPSK_10M_CH343000_1715(50,0)



OCC-ENDC_13A_n66-QPSK_10M_CH349000_1745(50,0)



OCC-ENDC_13A_n66-QPSK_10M_CH355000_1775(50,0)