

# Appendix B

**E-UTRA Band 66**

## TABLE OF CONTENTS

<b>1. MAIN TEST INSTRUMENTS</b> .....	<b>3</b>
<b>2. MEASUREMENT UNCERTAINTY</b> .....	<b>3</b>
<b>3 EFFECTIVE (ISOTROPIC) RADIATED POWER</b> .....	<b>4</b>
3.1. TEST RESULT .....	4
<b>4. PEAK-TO-AVERAGE RATIO (CCDF)</b> .....	<b>9</b>
4.1. TEST RESULT .....	9
4.2. TEST PLOTS.....	9
<b>5. MODULATION CHARACTERISTICS</b> .....	<b>12</b>
5.1. TEST MODE = LTE /TM1 20MHZ.....	12
5.1.1. TEST CHANNEL = MCH.....	12
5.2. TEST MODE = LTE /TM2 20MHZ.....	13
5.2.1. TEST CHANNEL = MCH.....	13
<b>6. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH</b> .....	<b>14</b>
6.1. TEST RESULT .....	14
6.2. TEST PLOTS.....	15
<b>7. BAND EDGE COMPLIANCE</b> .....	<b>27</b>
7.1. TEST PLOTS.....	27
<b>8. SPURIOUS EMISSION AT ANTENNA TERMINAL</b> .....	<b>44</b>
8.1. TEST PLOTS.....	44
<b>9. FREQUENCY STABILITY</b> .....	<b>49</b>
9.1. FREQUENCY VS VOLTAGE .....	49
9.2. FREQUENCY VS TEMPERATURE .....	49

## 1. Main Test Instruments

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2019/3/2	2020/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2019/7/14	2020/7/14
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2019/7/14	2020/7/14
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2019/9/20	2020/9/19
Pre-amplifier (26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019/3/2	2020/3/1
Band filter	N/A	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11
Wideband Radio Communication Tester	Anristu	MT8821C	6201462742	2019/4/3	2020/4/3
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	W005-02	2019/1/13	2020/1/12
RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Dual Output Mobile Communication DC Source	Agilent Technologies Inc	66311B	W009-09	2018/11/2	2019/11/1
Signal Analyzer	Rohde & Schwarz	FSV	W005-02	2019/3/2	2020/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/11/2	2019/11/1
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2018/11/2	2019/11/1
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/2	2019/11/1
Wideband Radio Communication Tester	Anristu	MT8821C	6201462742	2019/3/2	2020/3/1

## 2. Measurement Uncertainty

For a 95% confidence level ( $k = 2$ ), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Test Item	Extended Uncertainty	Data
Transmit Output Power Data	Power [dBm]	$U = \pm 0.37$ dB
Bandwidth	Magnitude [%]	$U = \pm 0.2\%$
Band Edge Compliance	Disturbance Power [dBm]	$U = \pm 2.0$ dB
Spurious Emissions, Conducted	Disturbance Power [dBm]	$U = \pm 2.0$ dB
Frequency Stability	Frequency Accuracy [ppm]	$U = \pm 0.24$ ppm

## 3 Effective (Isotropic) Radiated Power

### 3.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	23.26	25.10	30.00	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	23.45	25.29	30.00	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	23.32	25.16	30.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#1	23.15	24.99	30.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#0	23.42	25.26	30.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#3	23.23	25.07	30.00	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	22.27	24.11	30.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	23.05	24.89	30.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	23.47	25.31	30.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	23.16	25.00	30.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#0	23.12	24.96	30.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#1	23.43	25.27	30.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#3	23.03	24.87	30.00	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	22.33	24.17	30.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	23.08	24.92	30.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	23.35	25.19	30.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	23.24	25.08	30.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#0	23.12	24.96	30.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#3	23.32	25.16	30.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#1	23.20	25.04	30.00	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	22.28	24.12	30.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	22.70	24.54	30.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	21.96	23.80	30.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	22.79	24.63	30.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#0	22.30	24.14	30.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#1	22.31	24.15	30.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#3	22.35	24.19	30.00	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	21.36	23.20	30.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	22.65	24.49	30.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	22.79	24.63	30.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	22.76	24.60	30.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#3	22.07	23.91	30.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#1	22.28	24.12	30.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#0	22.31	24.15	30.00	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	21.31	23.15	30.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	22.63	24.47	30.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	22.70	24.54	30.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	22.66	24.50	30.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#3	22.26	24.10	30.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#1	22.34	24.18	30.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#0	22.35	24.19	30.00	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	21.32	23.16	30.00	PASS
Band66	3MHz	QPSK	131987	1RB#14	23.18	25.02	30.00	PASS
Band66	3MHz	QPSK	131987	1RB#0	23.43	25.27	30.00	PASS
Band66	3MHz	QPSK	131987	1RB#8	23.23	25.07	30.00	PASS

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Report No: JYTSZB-R12-2102954

Band66	3MHz	QPSK	131987	8RB#7	22.36	24.20	30.00	PASS
Band66	3MHz	QPSK	131987	8RB#4	22.28	24.12	30.00	PASS
Band66	3MHz	QPSK	131987	8RB#0	22.41	24.25	30.00	PASS
Band66	3MHz	QPSK	131987	15RB#0	22.37	24.21	30.00	PASS
Band66	3MHz	QPSK	132322	1RB#14	23.18	25.02	30.00	PASS
Band66	3MHz	QPSK	132322	1RB#8	23.51	25.35	30.00	PASS
Band66	3MHz	QPSK	132322	1RB#0	23.16	25.00	30.00	PASS
Band66	3MHz	QPSK	132322	8RB#7	22.08	23.92	30.00	PASS
Band66	3MHz	QPSK	132322	8RB#0	22.32	24.16	30.00	PASS
Band66	3MHz	QPSK	132322	8RB#4	22.33	24.17	30.00	PASS
Band66	3MHz	QPSK	132322	15RB#0	22.32	24.16	30.00	PASS
Band66	3MHz	QPSK	132657	1RB#14	23.08	24.92	30.00	PASS
Band66	3MHz	QPSK	132657	1RB#8	23.40	25.24	30.00	PASS
Band66	3MHz	QPSK	132657	1RB#0	23.18	25.02	30.00	PASS
Band66	3MHz	QPSK	132657	8RB#4	22.19	24.03	30.00	PASS
Band66	3MHz	QPSK	132657	8RB#0	22.31	24.15	30.00	PASS
Band66	3MHz	QPSK	132657	8RB#7	22.41	24.25	30.00	PASS
Band66	3MHz	QPSK	132657	15RB#0	22.34	24.18	30.00	PASS
Band66	3MHz	16QAM	131987	1RB#8	22.76	24.60	30.00	PASS
Band66	3MHz	16QAM	131987	1RB#14	21.98	23.82	30.00	PASS
Band66	3MHz	16QAM	131987	1RB#0	22.70	24.54	30.00	PASS
Band66	3MHz	16QAM	131987	8RB#0	21.44	23.28	30.00	PASS
Band66	3MHz	16QAM	131987	8RB#7	21.44	23.28	30.00	PASS
Band66	3MHz	16QAM	131987	8RB#4	21.33	23.17	30.00	PASS
Band66	3MHz	16QAM	131987	15RB#0	21.37	23.21	30.00	PASS
Band66	3MHz	16QAM	132322	1RB#8	22.60	24.44	30.00	PASS
Band66	3MHz	16QAM	132322	1RB#14	22.78	24.62	30.00	PASS
Band66	3MHz	16QAM	132322	1RB#0	22.73	24.57	30.00	PASS
Band66	3MHz	16QAM	132322	8RB#4	21.15	22.99	30.00	PASS
Band66	3MHz	16QAM	132322	8RB#0	21.17	23.01	30.00	PASS
Band66	3MHz	16QAM	132322	8RB#7	21.23	23.07	30.00	PASS
Band66	3MHz	16QAM	132322	15RB#0	21.18	23.02	30.00	PASS
Band66	3MHz	16QAM	132657	1RB#14	22.61	24.45	30.00	PASS
Band66	3MHz	16QAM	132657	1RB#0	22.70	24.54	30.00	PASS
Band66	3MHz	16QAM	132657	1RB#8	22.72	24.56	30.00	PASS
Band66	3MHz	16QAM	132657	8RB#0	21.34	23.18	30.00	PASS
Band66	3MHz	16QAM	132657	8RB#7	21.39	23.23	30.00	PASS
Band66	3MHz	16QAM	132657	8RB#4	21.37	23.21	30.00	PASS
Band66	3MHz	16QAM	132657	15RB#0	21.32	23.16	30.00	PASS
Band66	5MHz	QPSK	131997	1RB#24	23.24	25.08	30.00	PASS
Band66	5MHz	QPSK	131997	1RB#12	23.46	25.30	30.00	PASS
Band66	5MHz	QPSK	131997	1RB#0	23.32	25.16	30.00	PASS
Band66	5MHz	QPSK	131997	12RB#6	22.27	24.11	30.00	PASS
Band66	5MHz	QPSK	131997	12RB#0	22.38	24.22	30.00	PASS
Band66	5MHz	QPSK	131997	12RB#13	22.38	24.22	30.00	PASS
Band66	5MHz	QPSK	131997	25RB#0	22.34	24.18	30.00	PASS
Band66	5MHz	QPSK	132322	1RB#24	23.17	25.01	30.00	PASS
Band66	5MHz	QPSK	132322	1RB#0	23.43	25.27	30.00	PASS
Band66	5MHz	QPSK	132322	1RB#12	23.03	24.87	30.00	PASS
Band66	5MHz	QPSK	132322	12RB#6	22.16	24.00	30.00	PASS
Band66	5MHz	QPSK	132322	12RB#0	22.37	24.21	30.00	PASS
Band66	5MHz	QPSK	132322	12RB#13	22.39	24.23	30.00	PASS
Band66	5MHz	QPSK	132322	25RB#0	22.32	24.16	30.00	PASS

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Report No: JYTSZB-R12-2102954

Band66	5MHz	QPSK	132647	1RB#0	23.08	24.92	30.00	PASS
Band66	5MHz	QPSK	132647	1RB#12	23.37	25.21	30.00	PASS
Band66	5MHz	QPSK	132647	1RB#24	23.12	24.96	30.00	PASS
Band66	5MHz	QPSK	132647	12RB#0	22.20	24.04	30.00	PASS
Band66	5MHz	QPSK	132647	12RB#6	22.42	24.26	30.00	PASS
Band66	5MHz	QPSK	132647	12RB#13	22.39	24.23	30.00	PASS
Band66	5MHz	QPSK	132647	25RB#0	22.40	24.24	30.00	PASS
Band66	5MHz	16QAM	131997	1RB#0	22.71	24.55	30.00	PASS
Band66	5MHz	16QAM	131997	1RB#12	22.04	23.88	30.00	PASS
Band66	5MHz	16QAM	131997	1RB#24	22.74	24.58	30.00	PASS
Band66	5MHz	16QAM	131997	12RB#13	21.49	23.33	30.00	PASS
Band66	5MHz	16QAM	131997	12RB#0	21.44	23.28	30.00	PASS
Band66	5MHz	16QAM	131997	12RB#6	21.31	23.15	30.00	PASS
Band66	5MHz	16QAM	131997	25RB#0	21.33	23.17	30.00	PASS
Band66	5MHz	16QAM	132322	1RB#0	22.65	24.49	30.00	PASS
Band66	5MHz	16QAM	132322	1RB#12	22.69	24.53	30.00	PASS
Band66	5MHz	16QAM	132322	1RB#24	22.69	24.53	30.00	PASS
Band66	5MHz	16QAM	132322	12RB#0	21.01	22.85	30.00	PASS
Band66	5MHz	16QAM	132322	12RB#13	21.28	23.12	30.00	PASS
Band66	5MHz	16QAM	132322	12RB#6	21.20	23.04	30.00	PASS
Band66	5MHz	16QAM	132322	25RB#0	21.31	23.15	30.00	PASS
Band66	5MHz	16QAM	132647	1RB#0	22.60	24.44	30.00	PASS
Band66	5MHz	16QAM	132647	1RB#24	22.77	24.61	30.00	PASS
Band66	5MHz	16QAM	132647	1RB#12	22.68	24.52	30.00	PASS
Band66	5MHz	16QAM	132647	12RB#0	21.33	23.17	30.00	PASS
Band66	5MHz	16QAM	132647	12RB#6	21.39	23.23	30.00	PASS
Band66	5MHz	16QAM	132647	12RB#13	21.38	23.22	30.00	PASS
Band66	5MHz	16QAM	132647	25RB#0	21.44	23.28	30.00	PASS
Band66	10MHz	QPSK	132022	1RB#0	23.19	25.03	30.00	PASS
Band66	10MHz	QPSK	132022	1RB#24	23.49	25.33	30.00	PASS
Band66	10MHz	QPSK	132022	1RB#49	23.28	25.12	30.00	PASS
Band66	10MHz	QPSK	132022	25RB#12	22.27	24.11	30.00	PASS
Band66	10MHz	QPSK	132022	25RB#0	22.34	24.18	30.00	PASS
Band66	10MHz	QPSK	132022	25RB#25	22.42	24.26	30.00	PASS
Band66	10MHz	QPSK	132022	50RB#0	22.36	24.20	30.00	PASS
Band66	10MHz	QPSK	132322	1RB#49	23.10	24.94	30.00	PASS
Band66	10MHz	QPSK	132322	1RB#0	23.50	25.34	30.00	PASS
Band66	10MHz	QPSK	132322	1RB#24	23.03	24.87	30.00	PASS
Band66	10MHz	QPSK	132322	25RB#0	22.09	23.93	30.00	PASS
Band66	10MHz	QPSK	132322	25RB#12	22.43	24.27	30.00	PASS
Band66	10MHz	QPSK	132322	25RB#25	22.34	24.18	30.00	PASS
Band66	10MHz	QPSK	132322	50RB#0	22.37	24.21	30.00	PASS
Band66	10MHz	QPSK	132622	1RB#24	23.12	24.96	30.00	PASS
Band66	10MHz	QPSK	132622	1RB#49	23.35	25.19	30.00	PASS
Band66	10MHz	QPSK	132622	1RB#0	23.21	25.05	30.00	PASS
Band66	10MHz	QPSK	132622	25RB#0	22.19	24.03	30.00	PASS
Band66	10MHz	QPSK	132622	25RB#25	22.39	24.23	30.00	PASS
Band66	10MHz	QPSK	132622	25RB#12	22.36	24.20	30.00	PASS
Band66	10MHz	QPSK	132622	50RB#0	22.38	24.22	30.00	PASS
Band66	10MHz	16QAM	132022	1RB#24	22.76	24.60	30.00	PASS
Band66	10MHz	16QAM	132022	1RB#49	22.05	23.89	30.00	PASS
Band66	10MHz	16QAM	132022	1RB#0	22.73	24.57	30.00	PASS
Band66	10MHz	16QAM	132022	25RB#0	21.37	23.21	30.00	PASS

# JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2102954

Band66	10MHz	16QAM	132022	25RB#12	21.44	23.28	30.00	PASS
Band66	10MHz	16QAM	132022	25RB#25	21.37	23.21	30.00	PASS
Band66	10MHz	16QAM	132022	50RB#0	21.37	23.21	30.00	PASS
Band66	10MHz	16QAM	132322	1RB#49	22.60	24.44	30.00	PASS
Band66	10MHz	16QAM	132322	1RB#0	22.78	24.62	30.00	PASS
Band66	10MHz	16QAM	132322	1RB#24	22.78	24.62	30.00	PASS
Band66	10MHz	16QAM	132322	25RB#25	21.01	22.85	30.00	PASS
Band66	10MHz	16QAM	132322	25RB#12	21.28	23.12	30.00	PASS
Band66	10MHz	16QAM	132322	25RB#0	21.34	23.18	30.00	PASS
Band66	10MHz	16QAM	132322	50RB#0	21.32	23.16	30.00	PASS
Band66	10MHz	16QAM	132622	1RB#24	22.55	24.39	30.00	PASS
Band66	10MHz	16QAM	132622	1RB#49	22.69	24.53	30.00	PASS
Band66	10MHz	16QAM	132622	1RB#0	22.68	24.52	30.00	PASS
Band66	10MHz	16QAM	132622	25RB#25	21.41	23.25	30.00	PASS
Band66	10MHz	16QAM	132622	25RB#12	21.28	23.12	30.00	PASS
Band66	10MHz	16QAM	132622	25RB#0	21.42	23.26	30.00	PASS
Band66	10MHz	16QAM	132622	50RB#0	21.40	23.24	30.00	PASS
Band66	15MHz	QPSK	132047	1RB#74	23.28	25.12	30.00	PASS
Band66	15MHz	QPSK	132047	1RB#0	23.36	25.20	30.00	PASS
Band66	15MHz	QPSK	132047	1RB#38	23.20	25.04	30.00	PASS
Band66	15MHz	QPSK	132047	36RB#39	22.32	24.16	30.00	PASS
Band66	15MHz	QPSK	132047	36RB#18	22.31	24.15	30.00	PASS
Band66	15MHz	QPSK	132047	36RB#0	22.39	24.23	30.00	PASS
Band66	15MHz	QPSK	132047	75RB#0	22.30	24.14	30.00	PASS
Band66	15MHz	QPSK	132322	1RB#74	23.13	24.97	30.00	PASS
Band66	15MHz	QPSK	132322	1RB#38	23.45	25.29	30.00	PASS
Band66	15MHz	QPSK	132322	1RB#0	23.16	25.00	30.00	PASS
Band66	15MHz	QPSK	132322	36RB#0	22.07	23.91	30.00	PASS
Band66	15MHz	QPSK	132322	36RB#39	22.33	24.17	30.00	PASS
Band66	15MHz	QPSK	132322	36RB#18	22.30	24.14	30.00	PASS
Band66	15MHz	QPSK	132322	75RB#0	22.34	24.18	30.00	PASS
Band66	15MHz	QPSK	132597	1RB#74	23.08	24.92	30.00	PASS
Band66	15MHz	QPSK	132597	1RB#38	23.45	25.29	30.00	PASS
Band66	15MHz	QPSK	132597	1RB#0	23.20	25.04	30.00	PASS
Band66	15MHz	QPSK	132597	36RB#18	22.32	24.16	30.00	PASS
Band66	15MHz	QPSK	132597	36RB#0	22.40	24.24	30.00	PASS
Band66	15MHz	QPSK	132597	36RB#39	22.35	24.19	30.00	PASS
Band66	15MHz	QPSK	132597	75RB#0	22.33	24.17	30.00	PASS
Band66	15MHz	16QAM	132047	1RB#0	22.73	24.57	30.00	PASS
Band66	15MHz	16QAM	132047	1RB#74	21.91	23.75	30.00	PASS
Band66	15MHz	16QAM	132047	1RB#38	22.77	24.61	30.00	PASS
Band66	15MHz	16QAM	132047	36RB#0	21.39	23.23	30.00	PASS
Band66	15MHz	16QAM	132047	36RB#39	21.40	23.24	30.00	PASS
Band66	15MHz	16QAM	132047	36RB#18	21.43	23.27	30.00	PASS
Band66	15MHz	16QAM	132047	75RB#0	21.40	23.24	30.00	PASS
Band66	15MHz	16QAM	132322	1RB#38	22.60	24.44	30.00	PASS
Band66	15MHz	16QAM	132322	1RB#74	22.77	24.61	30.00	PASS
Band66	15MHz	16QAM	132322	1RB#0	22.71	24.55	30.00	PASS
Band66	15MHz	16QAM	132322	36RB#18	21.11	22.95	30.00	PASS
Band66	15MHz	16QAM	132322	36RB#0	21.26	23.10	30.00	PASS
Band66	15MHz	16QAM	132322	36RB#39	21.33	23.17	30.00	PASS
Band66	15MHz	16QAM	132322	75RB#0	21.22	23.06	30.00	PASS
Band66	15MHz	16QAM	132597	1RB#74	22.69	24.53	30.00	PASS

# JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2102954

Band66	15MHz	16QAM	132597	1RB#0	22.75	24.59	30.00	PASS
Band66	15MHz	16QAM	132597	1RB#38	22.63	24.47	30.00	PASS
Band66	15MHz	16QAM	132597	36RB#0	21.33	23.17	30.00	PASS
Band66	15MHz	16QAM	132597	36RB#39	21.38	23.22	30.00	PASS
Band66	15MHz	16QAM	132597	36RB#18	21.30	23.14	30.00	PASS
Band66	15MHz	16QAM	132597	75RB#0	21.36	23.20	30.00	PASS
Band66	20MHz	QPSK	132072	1RB#99	23.39	25.23	30.00	PASS
Band66	20MHz	QPSK	132072	1RB#49	23.61	25.45	30.00	PASS
Band66	20MHz	QPSK	132072	1RB#0	23.43	25.27	30.00	PASS
Band66	20MHz	QPSK	132072	50RB#25	22.50	24.34	30.00	PASS
Band66	20MHz	QPSK	132072	50RB#0	22.53	24.37	30.00	PASS
Band66	20MHz	QPSK	132072	50RB#50	22.52	24.36	30.00	PASS
Band66	20MHz	QPSK	132072	100RB#0	22.51	24.35	30.00	PASS
Band66	20MHz	QPSK	132322	1RB#99	23.29	25.13	30.00	PASS
Band66	20MHz	QPSK	132322	1RB#0	23.65	25.49	30.00	PASS
Band66	20MHz	QPSK	132322	1RB#49	23.28	25.12	30.00	PASS
Band66	20MHz	QPSK	132322	50RB#25	22.30	24.14	30.00	PASS
Band66	20MHz	QPSK	132322	50RB#0	22.54	24.38	30.00	PASS
Band66	20MHz	QPSK	132322	50RB#50	22.50	24.34	30.00	PASS
Band66	20MHz	QPSK	132322	100RB#0	22.52	24.36	30.00	PASS
Band66	20MHz	QPSK	132572	1RB#0	23.23	25.07	30.00	PASS
Band66	20MHz	QPSK	132572	1RB#49	23.59	25.43	30.00	PASS
Band66	20MHz	QPSK	132572	1RB#99	23.35	25.19	30.00	PASS
Band66	20MHz	QPSK	132572	50RB#0	22.42	24.26	30.00	PASS
Band66	20MHz	QPSK	132572	50RB#25	22.53	24.37	30.00	PASS
Band66	20MHz	QPSK	132572	50RB#50	22.51	24.35	30.00	PASS
Band66	20MHz	QPSK	132572	100RB#0	22.50	24.34	30.00	PASS
Band66	20MHz	16QAM	132072	1RB#0	22.90	24.74	30.00	PASS
Band66	20MHz	16QAM	132072	1RB#49	22.16	24.00	30.00	PASS
Band66	20MHz	16QAM	132072	1RB#99	22.93	24.77	30.00	PASS
Band66	20MHz	16QAM	132072	50RB#50	21.61	23.45	30.00	PASS
Band66	20MHz	16QAM	132072	50RB#0	21.55	23.39	30.00	PASS
Band66	20MHz	16QAM	132072	50RB#25	21.54	23.38	30.00	PASS
Band66	20MHz	16QAM	132072	100RB#0	21.58	23.42	30.00	PASS
Band66	20MHz	16QAM	132322	1RB#0	22.80	24.64	30.00	PASS
Band66	20MHz	16QAM	132322	1RB#49	22.93	24.77	30.00	PASS
Band66	20MHz	16QAM	132322	1RB#99	22.88	24.72	30.00	PASS
Band66	20MHz	16QAM	132322	50RB#0	21.25	23.09	30.00	PASS
Band66	20MHz	16QAM	132322	50RB#50	21.42	23.26	30.00	PASS
Band66	20MHz	16QAM	132322	50RB#25	21.44	23.28	30.00	PASS
Band66	20MHz	16QAM	132322	100RB#0	21.43	23.27	30.00	PASS
Band66	20MHz	16QAM	132572	1RB#0	22.80	24.64	30.00	PASS
Band66	20MHz	16QAM	132572	1RB#99	22.90	24.74	30.00	PASS
Band66	20MHz	16QAM	132572	1RB#49	22.86	24.70	30.00	PASS
Band66	20MHz	16QAM	132572	50RB#0	21.58	23.42	30.00	PASS
Band66	20MHz	16QAM	132572	50RB#25	21.50	23.34	30.00	PASS
Band66	20MHz	16QAM	132572	50RB#50	21.54	23.38	30.00	PASS
Band66	20MHz	16QAM	132572	100RB#0	21.56	23.40	30.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

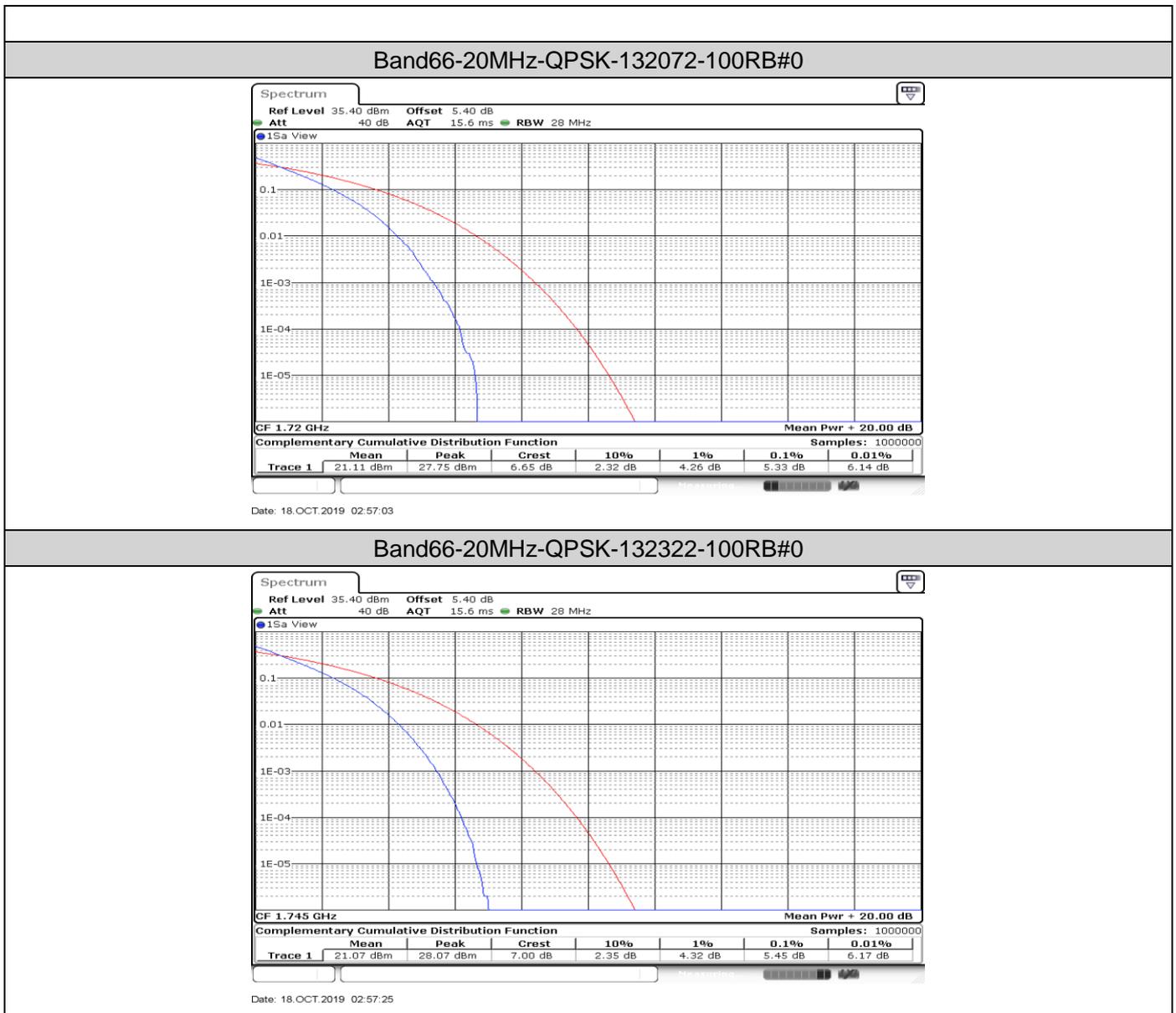
EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

## 4. Peak-to-Average Ratio (CCDF)

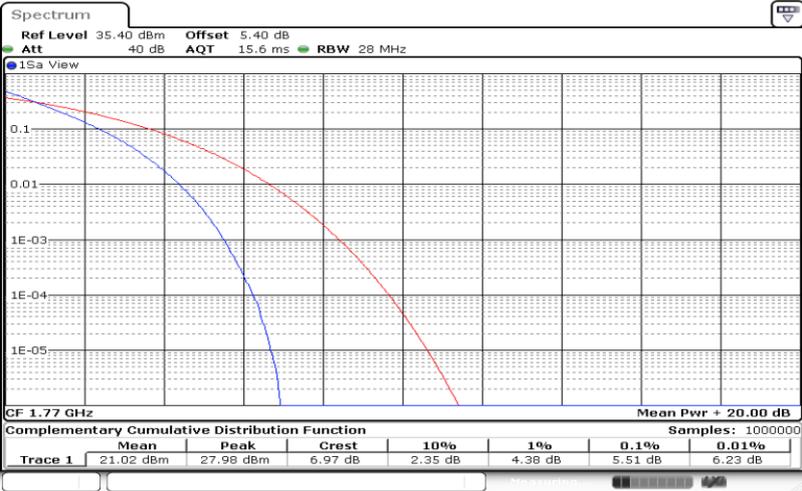
### 4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	5.33	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.45	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	5.51	13	PASS
Band66	20MHz	16QAM	132072	100RB#0	6.06	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	6.14	13	PASS
Band66	20MHz	16QAM	132572	100RB#0	6.20	13	PASS

### 4.2. Test Plots

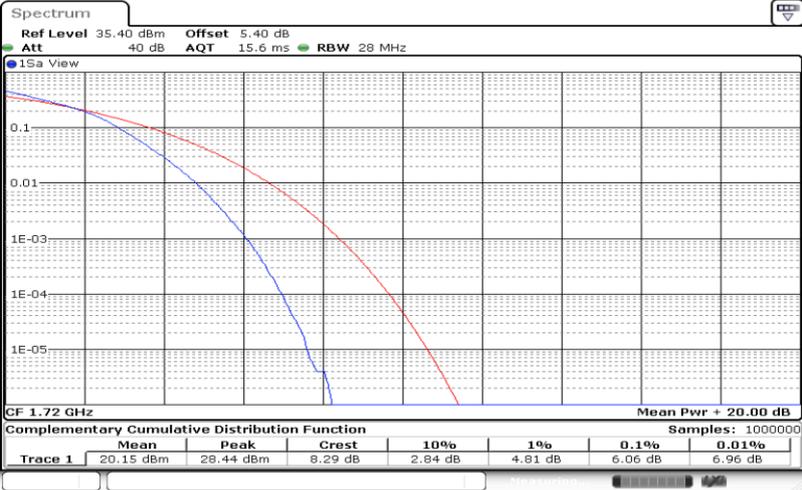


Band66-20MHz-QPSK-132572-100RB#0



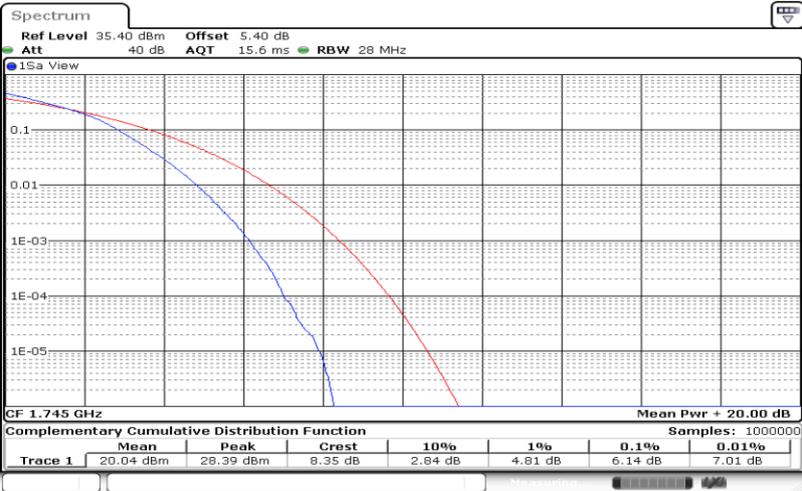
Date: 18.OCT.2019 02:57:48

Band66-20MHz-16QAM-132072-100RB#0



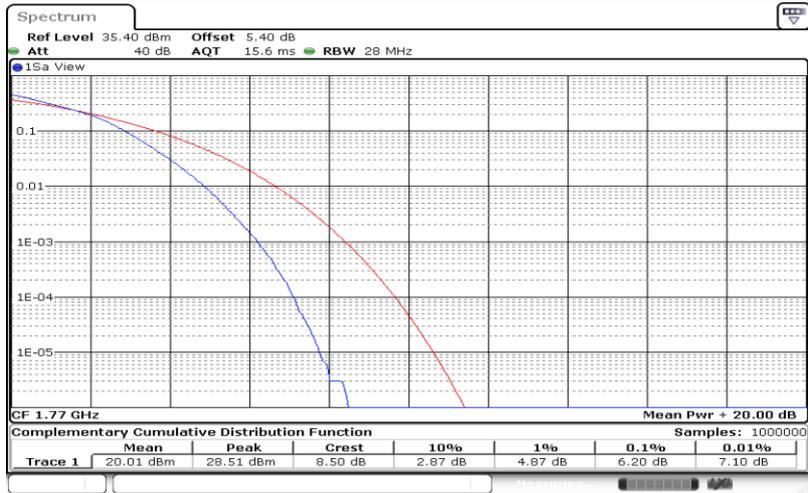
Date: 18.OCT.2019 02:57:14

Band66-20MHz-16QAM-132322-100RB#0



Date: 18.OCT.2019 02:57:36

## Band66-20MHz-16QAM-132572-100RB#0

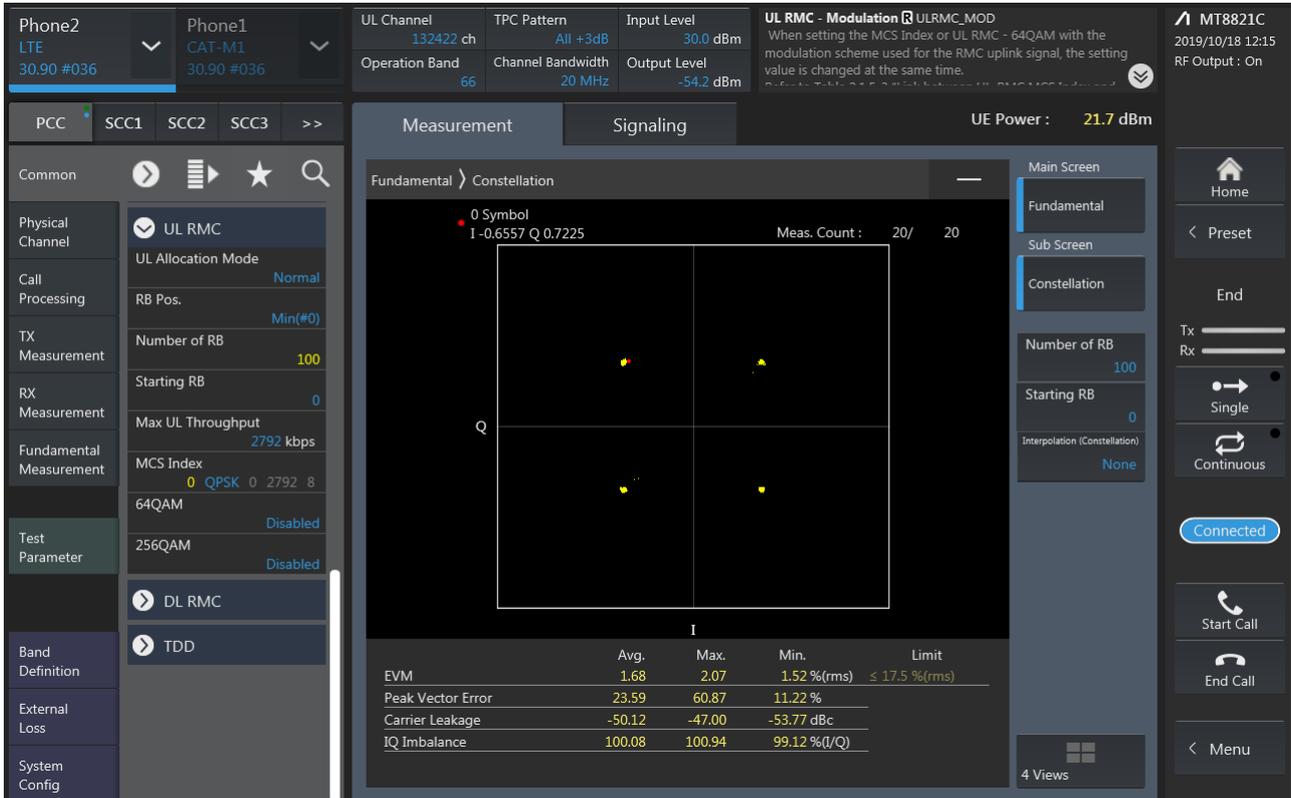


Date: 18.OCT.2019 02:57:59

## 5. Modulation Characteristics

### 5.1. Test Mode = LTE /TM1 20MHz

#### 5.1.1. Test Channel = MCH



## 5.2. Test Mode = LTE /TM2 20MHz

### 5.2.1. Test Channel = MCH

The screenshot displays a mobile testing software interface with the following sections:

- Top Bar:** Phone2 (LTE 30.90 #036), Phone1 (CAT-M1 30.90 #036), UL Channel (132422 ch), TPC Pattern (All +3dB), Input Level (30.0 dBm), Operation Band (66), Channel Bandwidth (20 MHz), Output Level (-54.2 dBm), UL RMC - Modulation (ULRMC\_MOD), and MT8821C (2019/10/18 12:15, RF Output: On).
- Measurement/Signaling:** UE Power: 20.7 dBm.
- Left Panel (Common):**
  - Physical Channel: UL RMC (UL Allocation Mode: Normal)
  - Call Processing: RB Pos. (Min(#0))
  - TX Measurement: Number of RB (100)
  - RX Measurement: Starting RB (0), Max UL Throughput (17568 kbps)
  - Fundamental Measurement: MCS Index (11 16QAM 10 17568 8), 64QAM (Disabled), 256QAM (Disabled)
  - Test Parameter: DL RMC, TDD
  - Band Definition, External Loss, System Config
- Main Display (Fundamental Constellation):**
  - 0 Symbol: I 0.3506 Q -0.9401
  - Meas. Count: 20/ 20
  - Constellation diagram showing 16 points in a 4x4 grid.
  - Measurement Table:
- Right Panel (Main Screen):**
  - Fundamental
  - Sub Screen: Constellation
  - Number of RB: 100
  - Starting RB: 0
  - Interpolation (Constellation): None
  - Buttons: Home, Preset, End, Single, Continuous, Connected, Start Call, End Call, Menu

	Avg.	Max.	Min.	Limit
EVM	2.27	2.32	2.22 %(rms)	≤ 12.5 %(rms)
Peak Vector Error	19.05	24.20	14.30 %	
Carrier Leakage	-51.38	-49.54	-53.21 dBc	
IQ Imbalance	99.90	100.38	99.48 %(I/Q)	

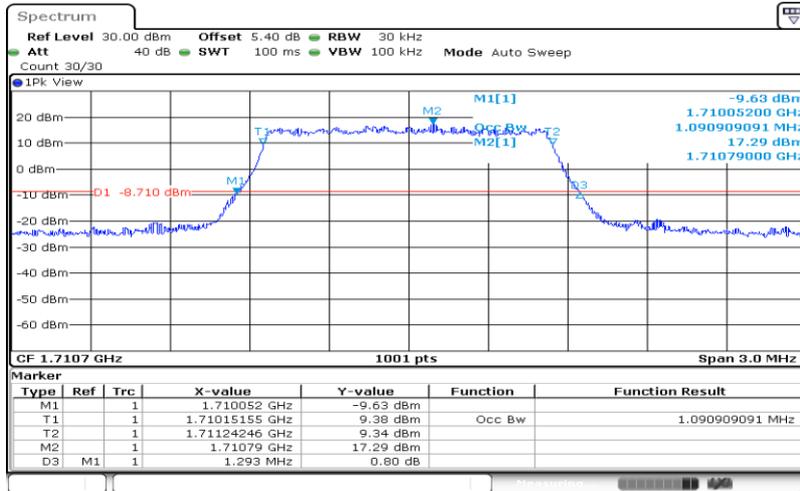
## 6. 26dB Bandwidth and Occupied Bandwidth

### 6.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6RB#0	1.091	1.293	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.088	1.299	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.088	1.293	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.091	1.287	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.088	1.293	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.088	1.296	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.691	2.922	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.685	2.940	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.685	2.922	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.673	2.904	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.673	2.910	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.679	2.898	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.476	5.060	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.476	5.060	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.486	5.060	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.476	5.070	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.486	5.090	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.486	5.080	PASS
Band66	10MHz	QPSK	132022	50RB#0	8.931	9.960	PASS
Band66	10MHz	QPSK	132322	50RB#0	8.931	9.960	PASS
Band66	10MHz	QPSK	132622	50RB#0	8.951	9.920	PASS
Band66	10MHz	16QAM	132022	50RB#0	8.951	9.920	PASS
Band66	10MHz	16QAM	132322	50RB#0	8.931	10.020	PASS
Band66	10MHz	16QAM	132622	50RB#0	8.951	9.940	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.516	15.030	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.516	15.210	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.487	15.060	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.487	15.150	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.487	14.820	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.516	15.120	PASS
Band66	20MHz	QPSK	132072	100RB#0	17.902	19.680	PASS
Band66	20MHz	QPSK	132322	100RB#0	17.902	19.680	PASS
Band66	20MHz	QPSK	132572	100RB#0	17.942	19.760	PASS
Band66	20MHz	16QAM	132072	100RB#0	17.942	19.560	PASS
Band66	20MHz	16QAM	132322	100RB#0	17.942	19.680	PASS
Band66	20MHz	16QAM	132572	100RB#0	17.902	19.680	PASS

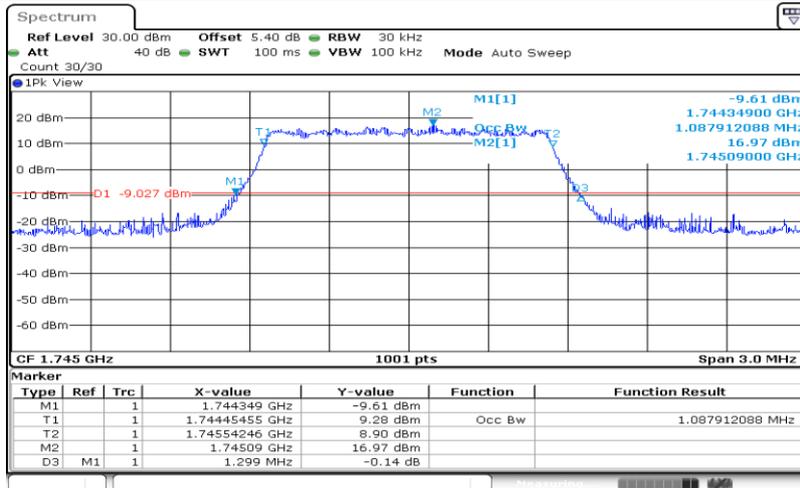
## 6.2. Test Plots

**Band66-1.4MHz-QPSK-131979-6RB#0-1.091**



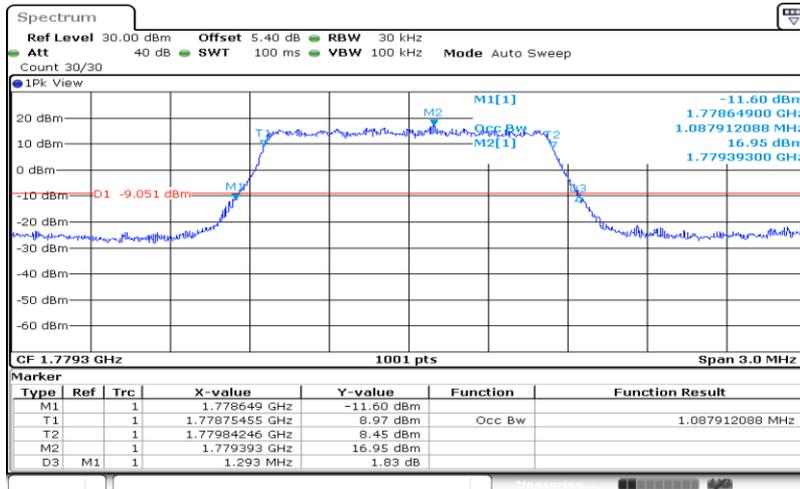
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**Band66-1.4MHz-QPSK-132322-6RB#0-1.088**



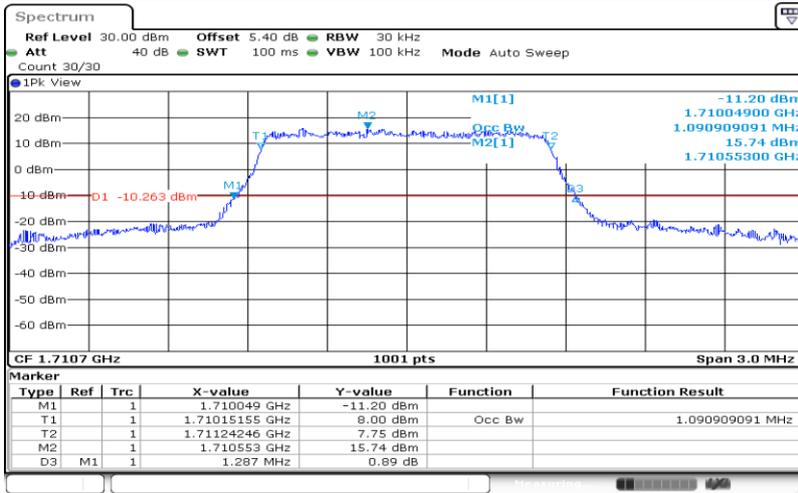
Date: 18.OCT.2019 02:28:40

**Band66-1.4MHz-QPSK-132665-6RB#0-1.088**

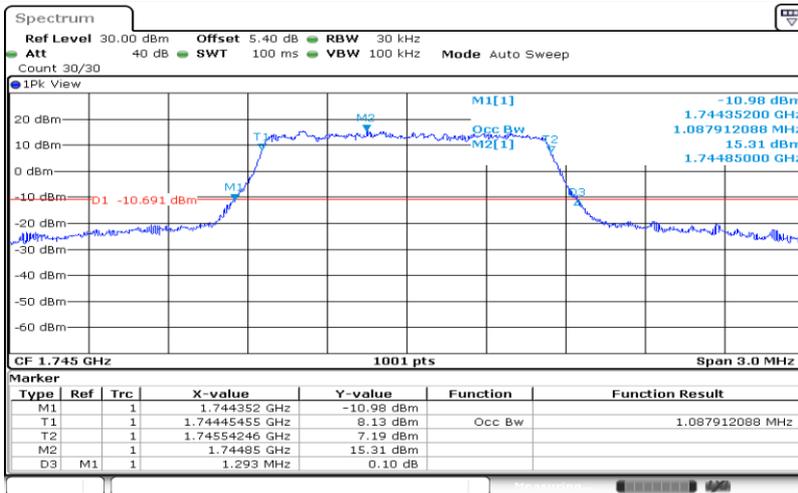


Date: 18.OCT.2019 02:29:05

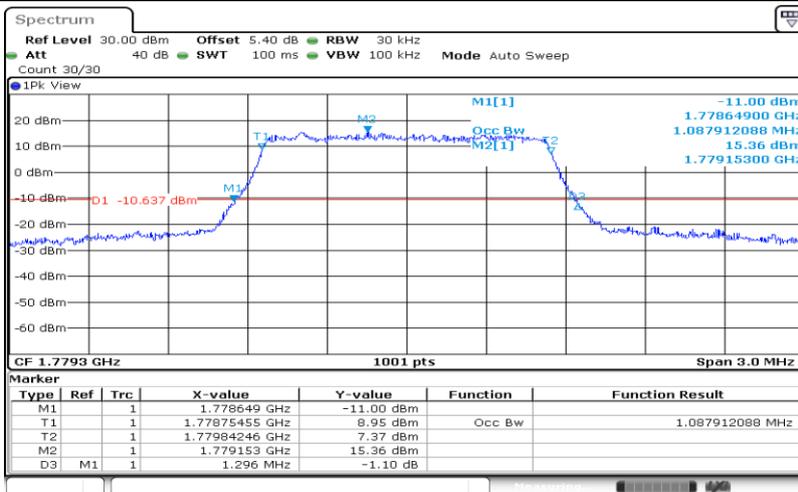
## Band66-1.4MHz-16QAM-131979-6RB#0-1.091



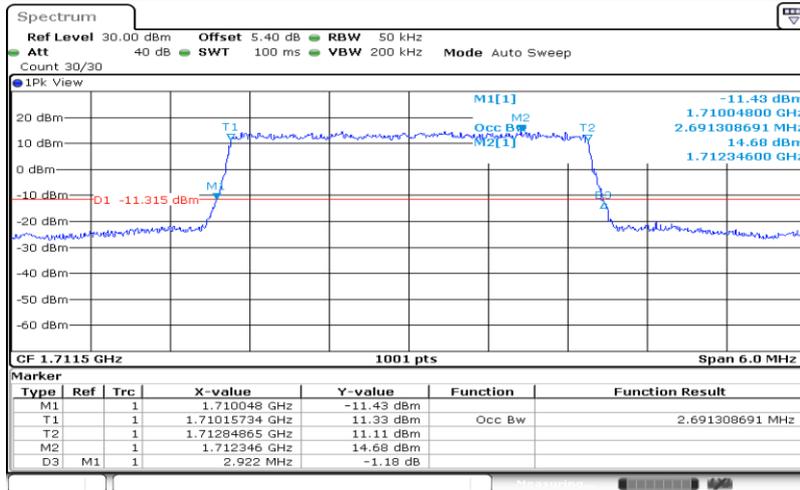
## Band66-1.4MHz-16QAM-132322-6RB#0-1.088



## Band66-1.4MHz-16QAM-132665-6RB#0-1.088

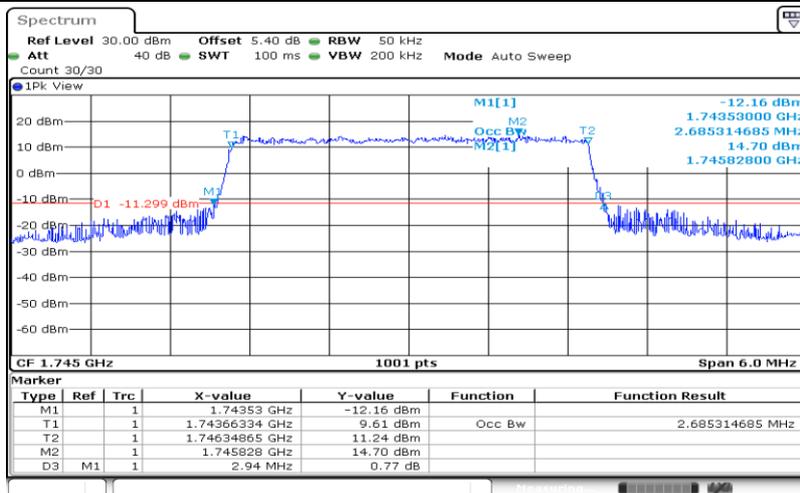


## Band66-3MHz-QPSK-131987-15RB#0-2.691



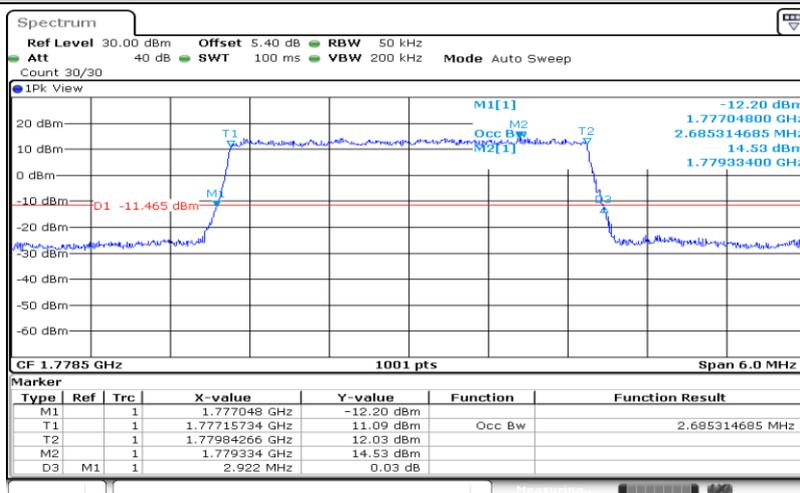
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## Band66-3MHz-QPSK-132322-15RB#0-2.685



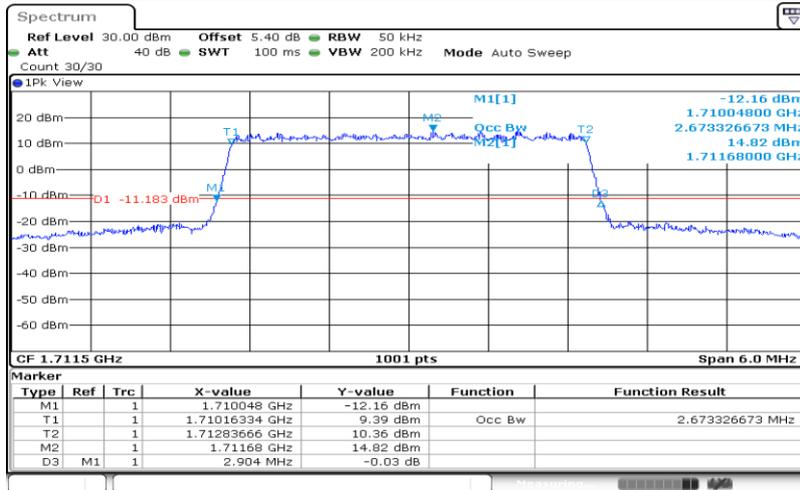
Date: 18.OCT.2019 02:30:01

## Band66-3MHz-QPSK-132657-15RB#0-2.685



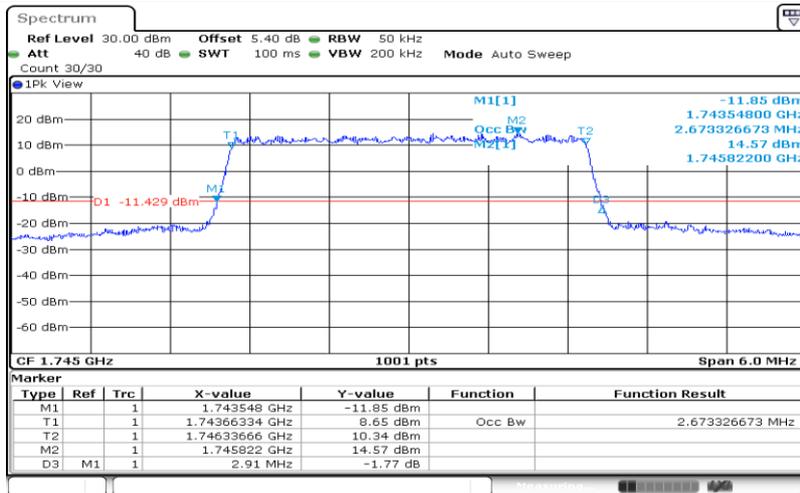
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## Band66-3MHz-16QAM-131987-15RB#0-2.673



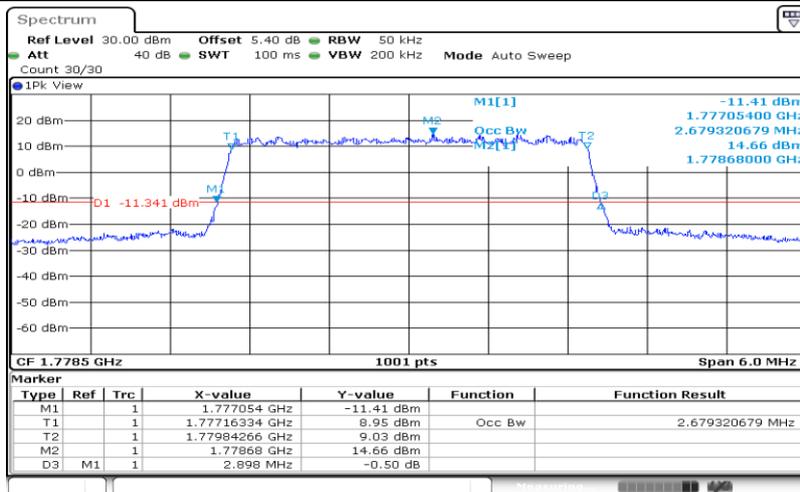
Date: 18.OCT.2019 02:29:48

## Band66-3MHz-16QAM-132322-15RB#0-2.673



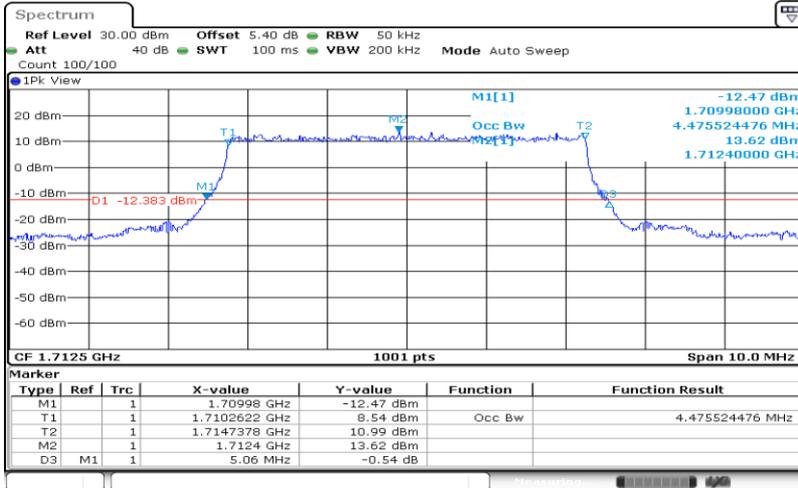
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## Band66-3MHz-16QAM-132657-15RB#0-2.679



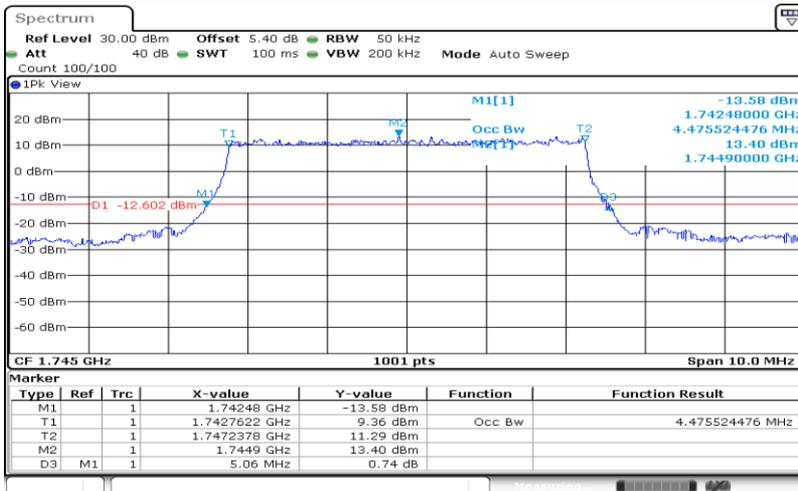
Date: 18.OCT.2019 02:30:39

## Band66-5MHz-QPSK-131997-25RB#0-4.476



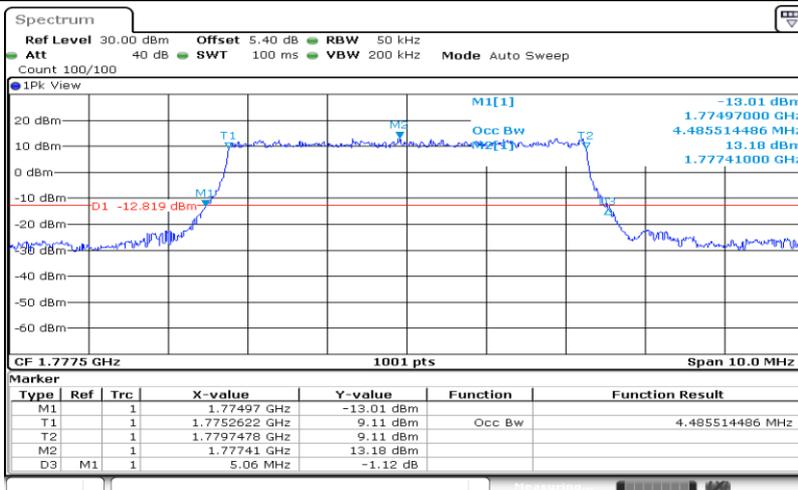
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## Band66-5MHz-QPSK-132322-25RB#0-4.476



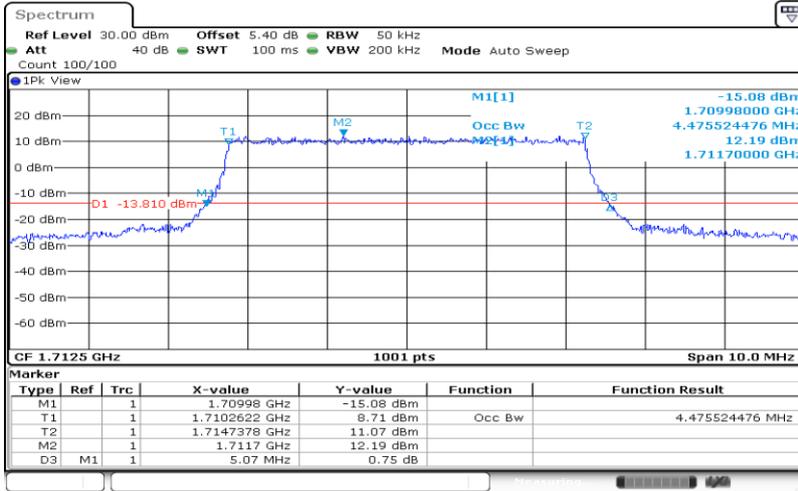
Date: 18.OCT.2019 02:31:43

## Band66-5MHz-QPSK-132647-25RB#0-4.486



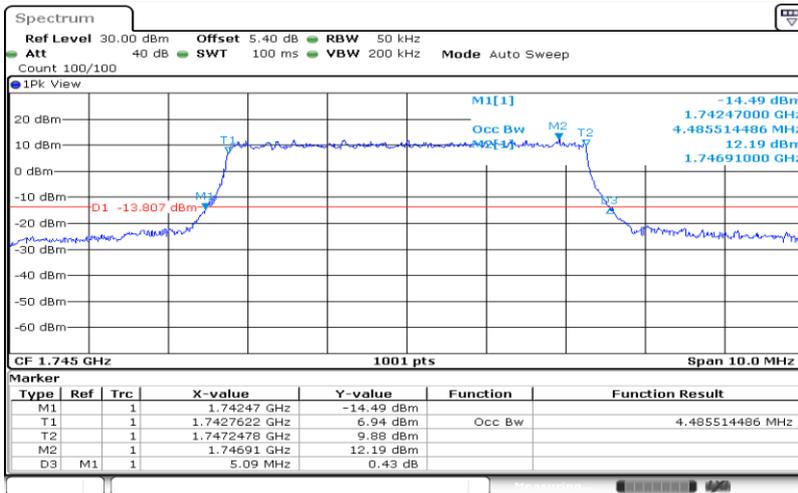
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## Band66-5MHz-16QAM-131997-25RB#0-4.476



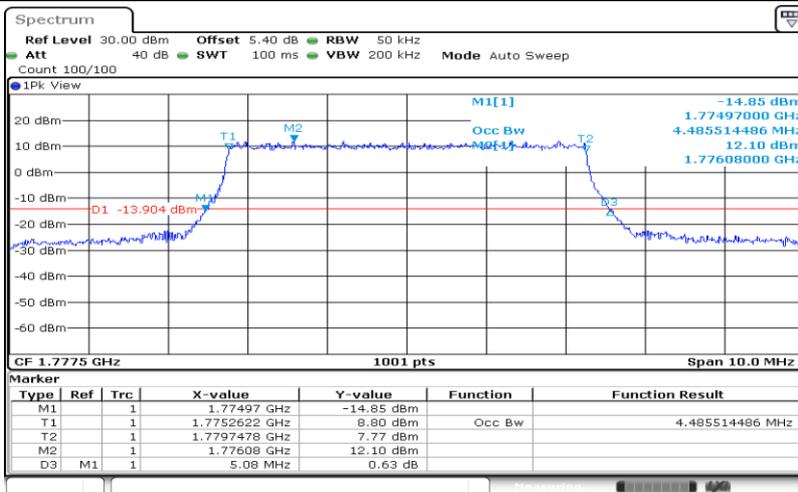
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## Band66-5MHz-16QAM-132322-25RB#0-4.486



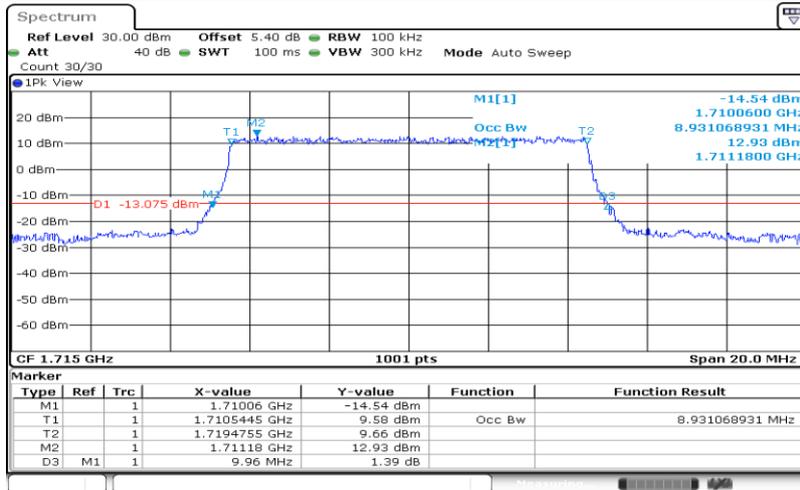
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## Band66-5MHz-16QAM-132647-25RB#0-4.486



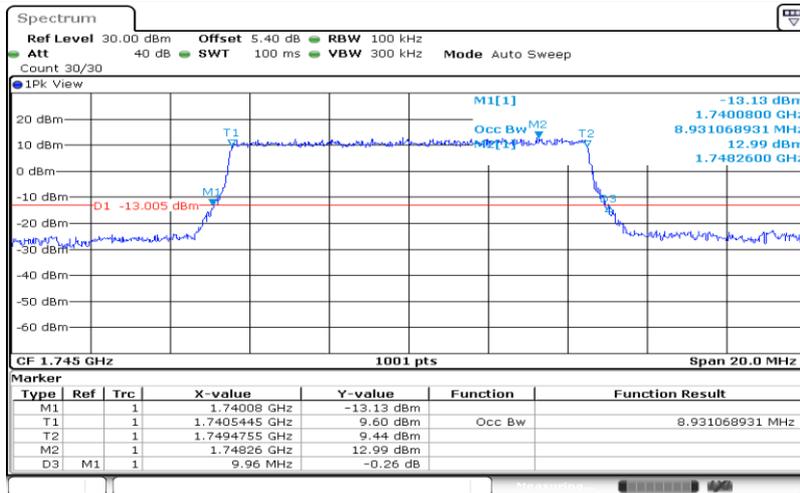
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## Band66-10MHz-QPSK-132022-50RB#0-8.931



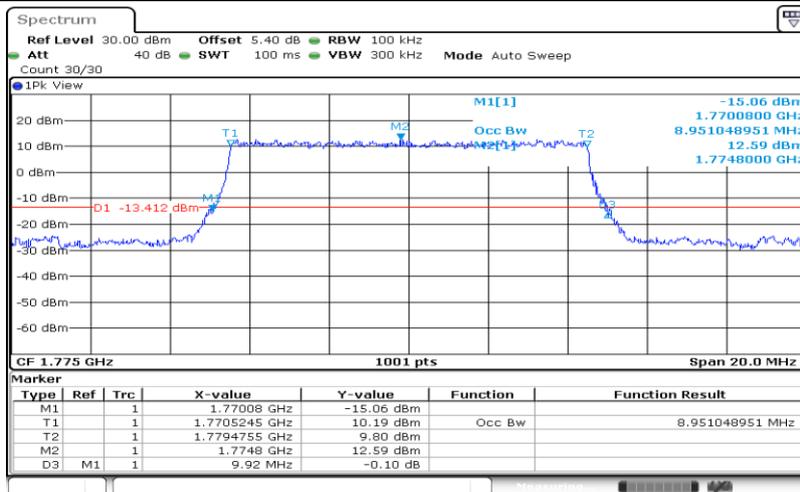
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## Band66-10MHz-QPSK-132322-50RB#0-8.931



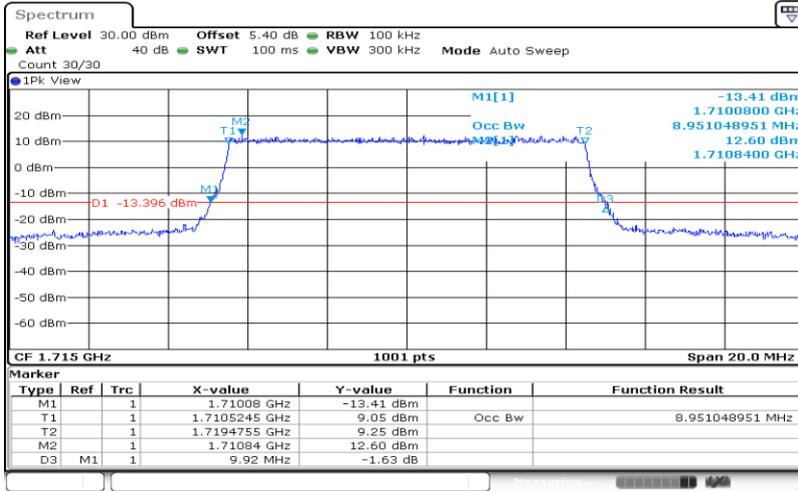
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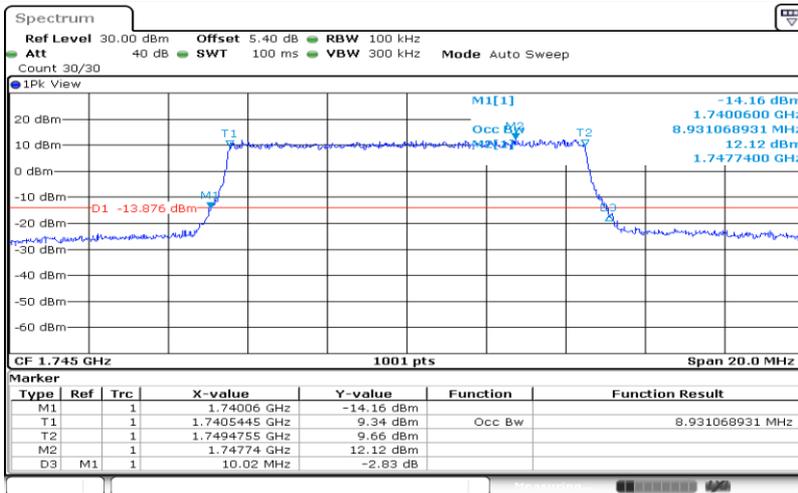
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## Band66-10MHz-16QAM-132022-50RB#0-8.951



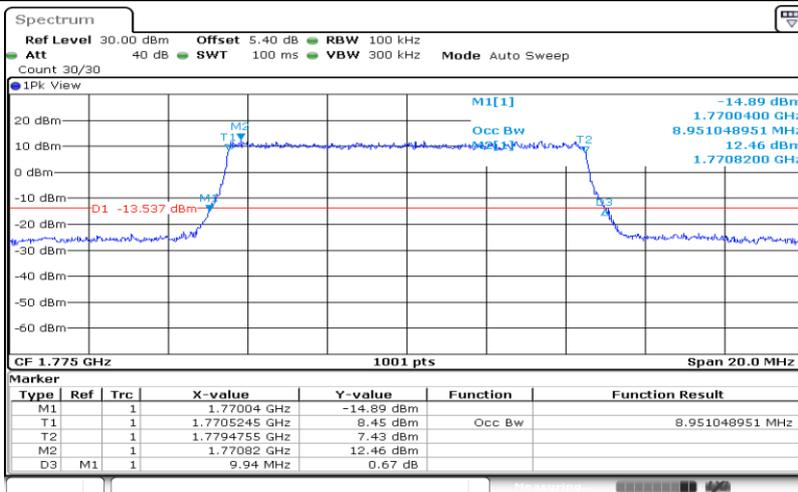
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## Band66-10MHz-16QAM-132322-50RB#0-8.931



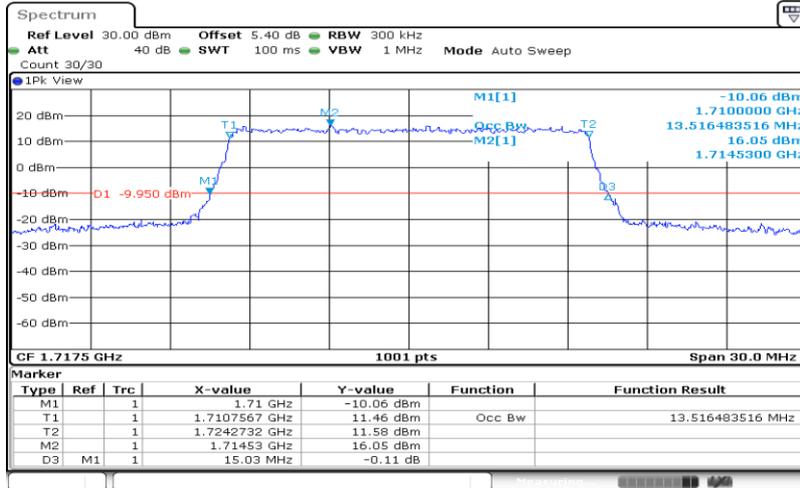
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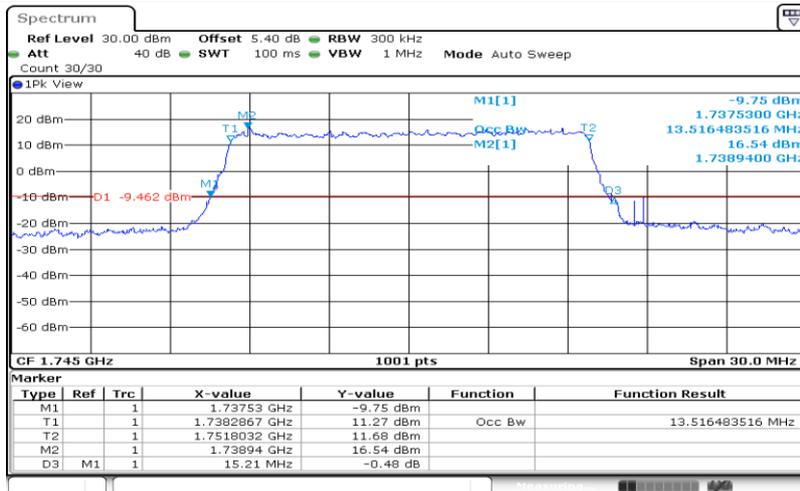
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## Band66-15MHz-QPSK-132047-75RB#0-13.516



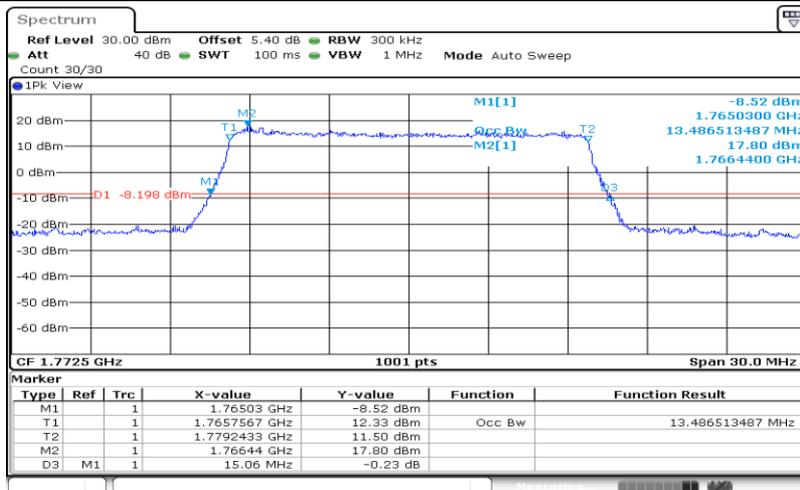
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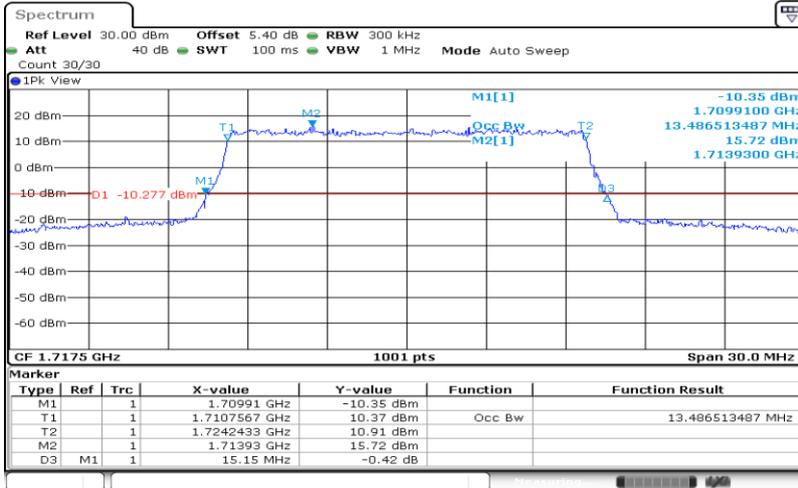
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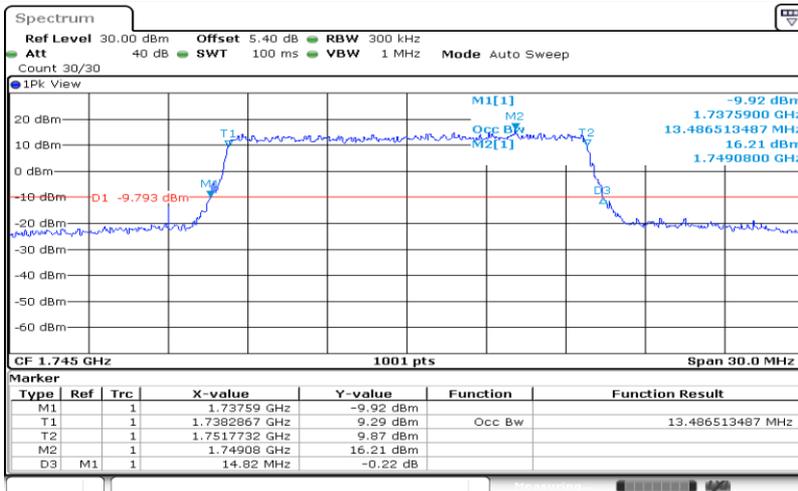
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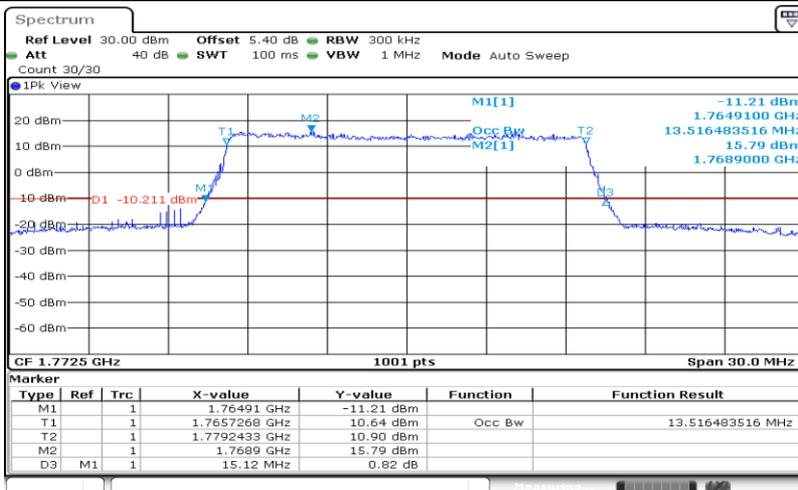
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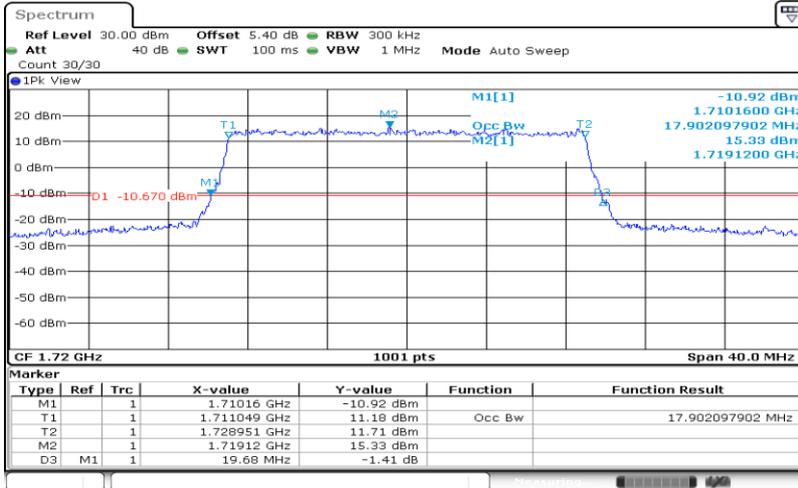
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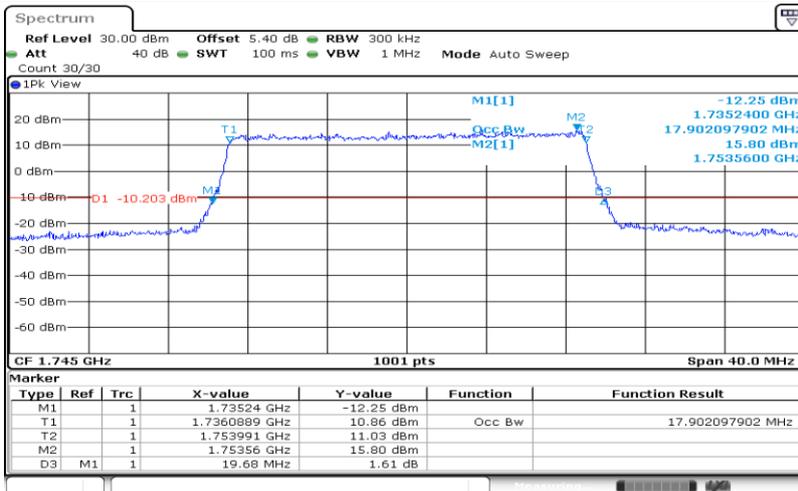
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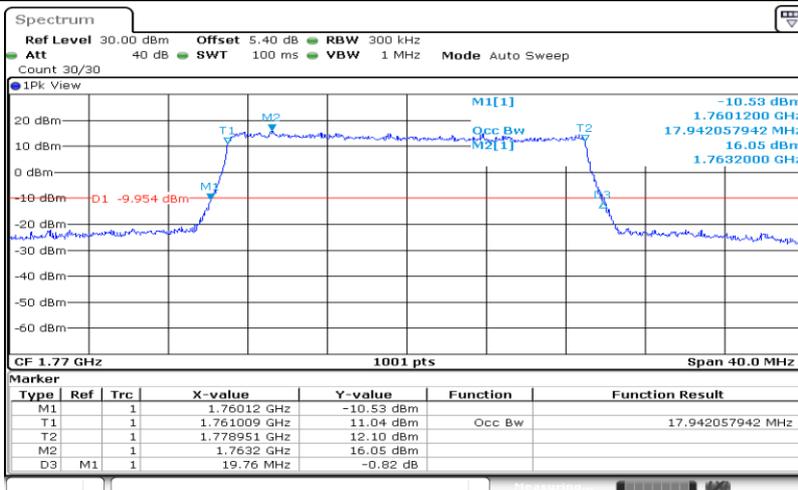
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## Band66-20MHz-QPSK-132322-100RB#0-17.902



Date: 18.OCT.2019 02:36:06

## Band66-20MHz-QPSK-132572-100RB#0-17.942



Date: 18.OCT.2019 02:36:32