

8.2.6. LTE ULCA BAND 48C ADJACENT CHANNEL POWER



8.3. OUT OF BAND EMISSIONS

LIMITS

FCC: §96.41

(e) 3.5 GHz Emissions and Interference Limits—

(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

TEST PROCEDURE

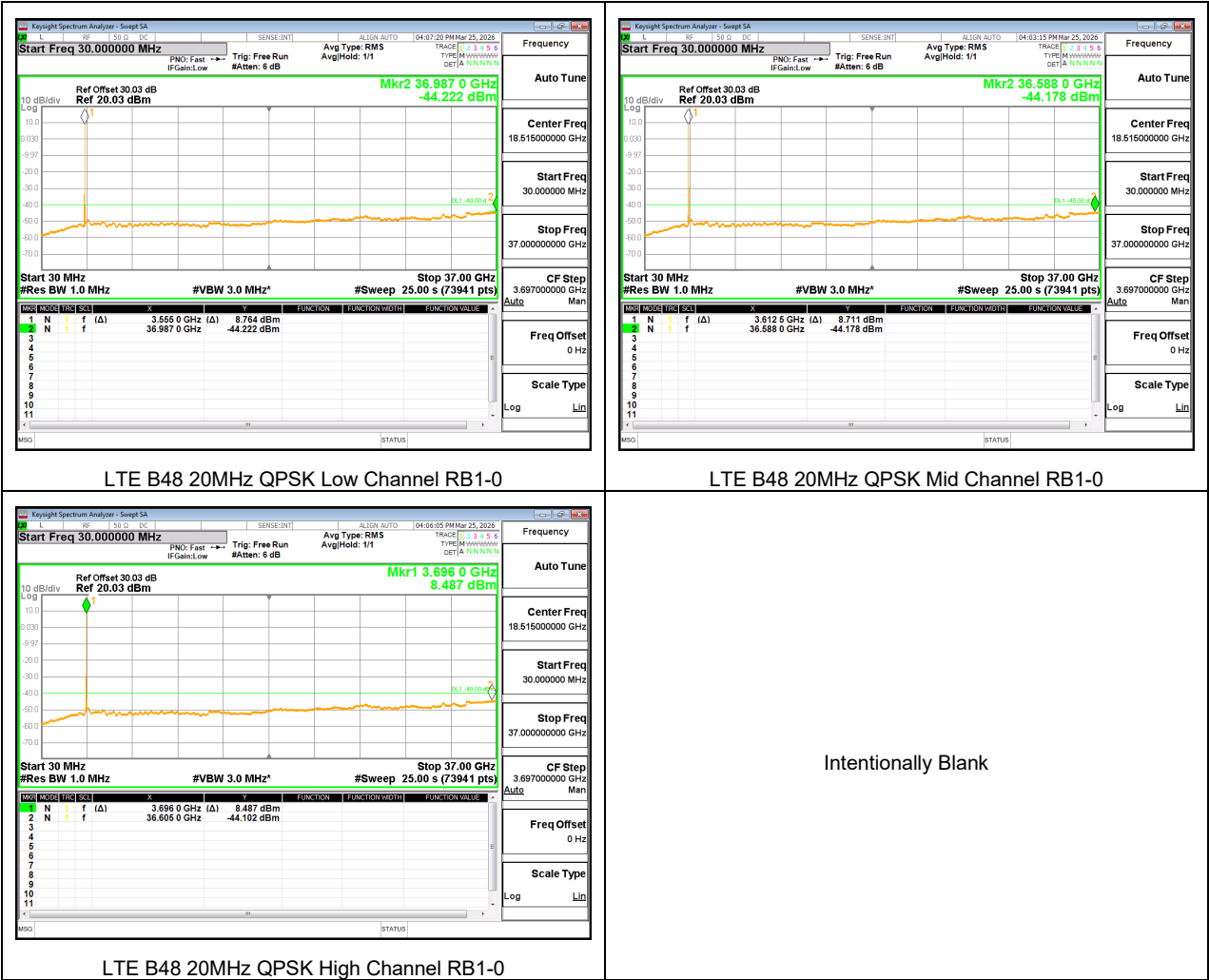
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

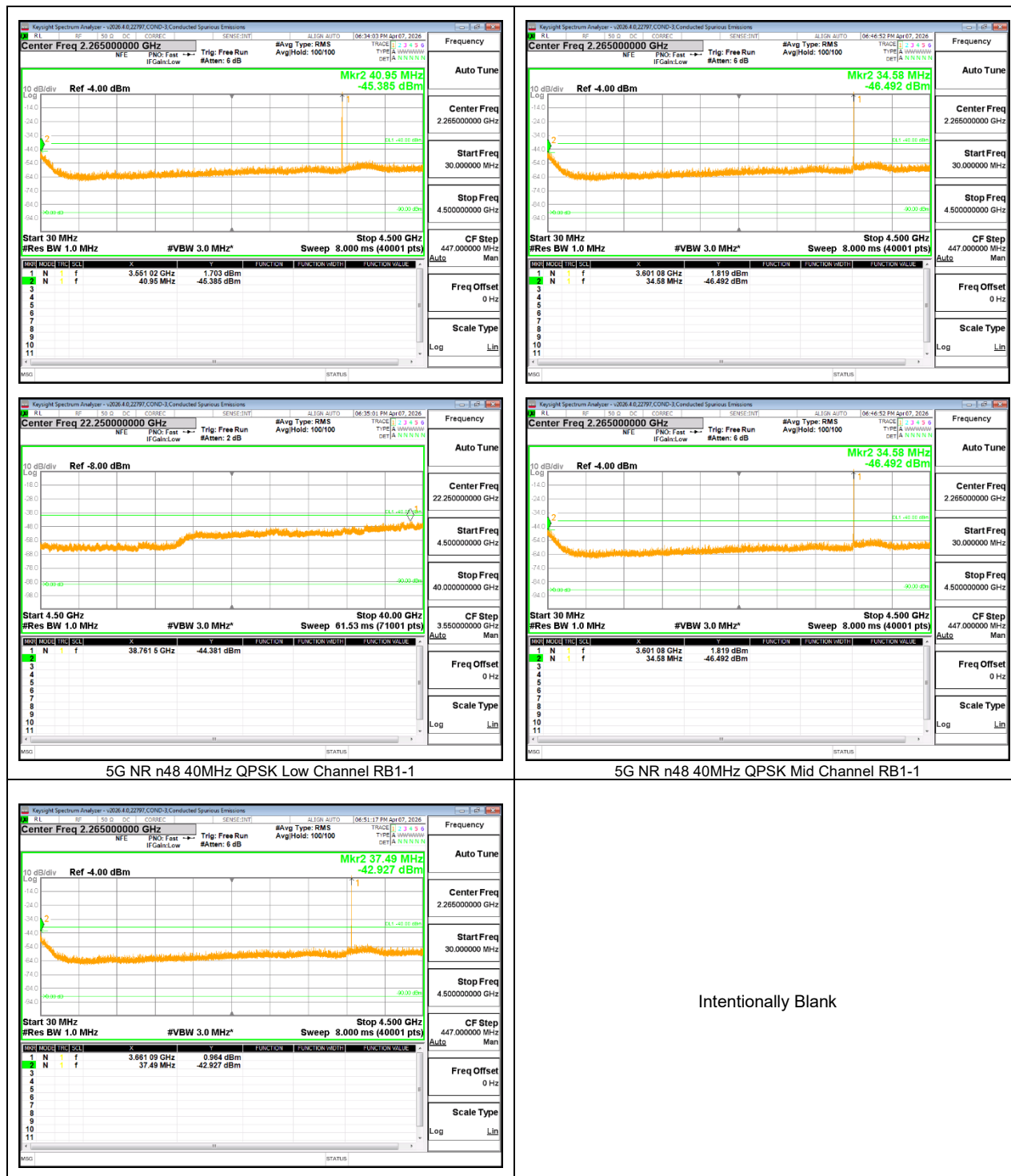
- Set display line at -13 dBm, -25dBm and -40dBm according to the band Limit
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

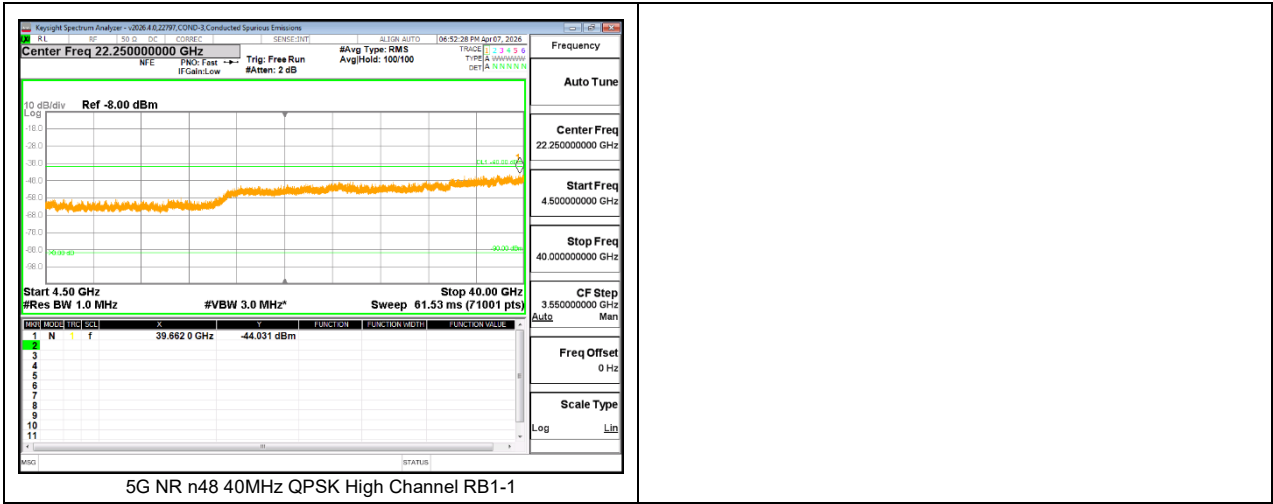
RESULTS

8.3.1. LTE BAND 48

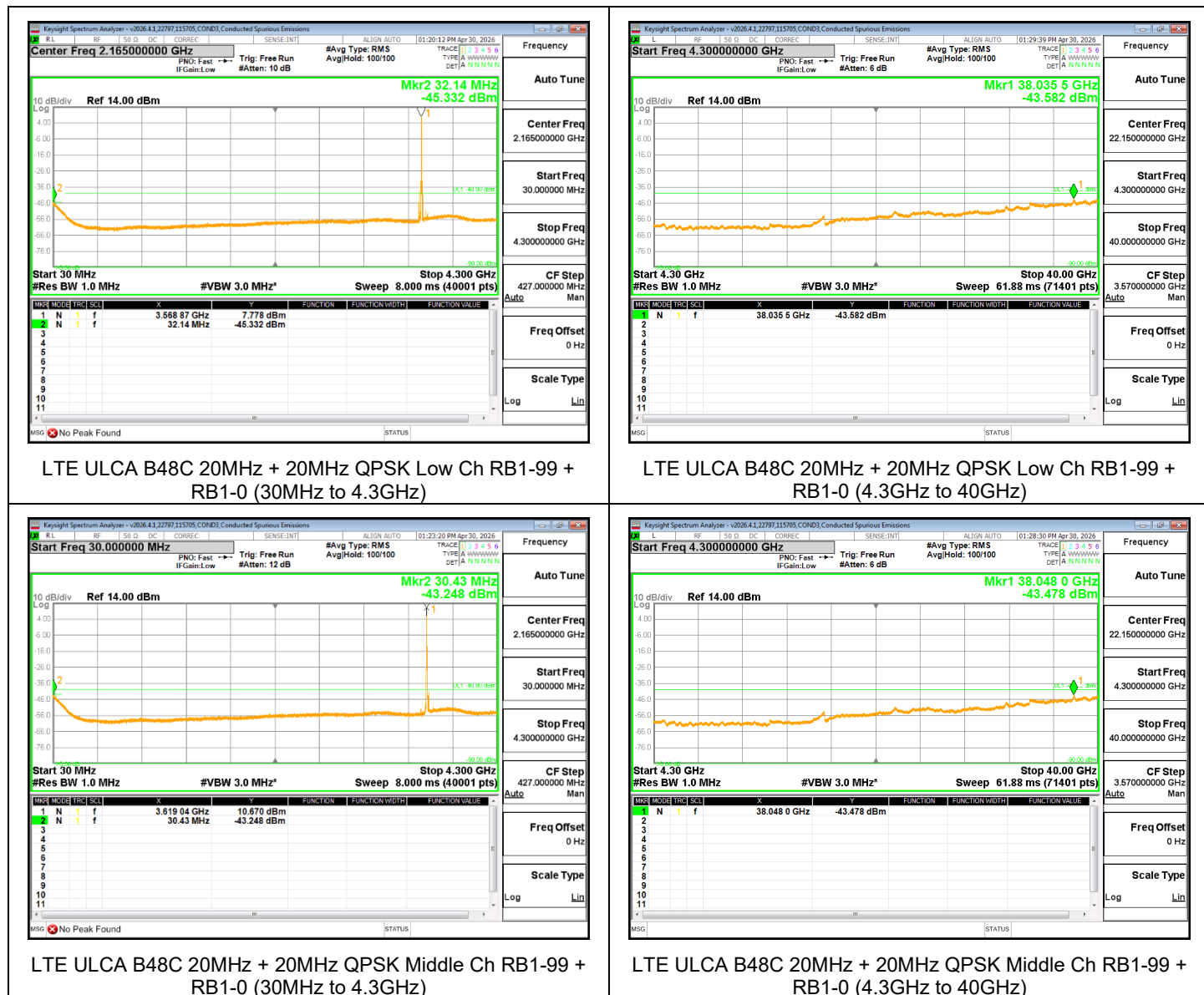


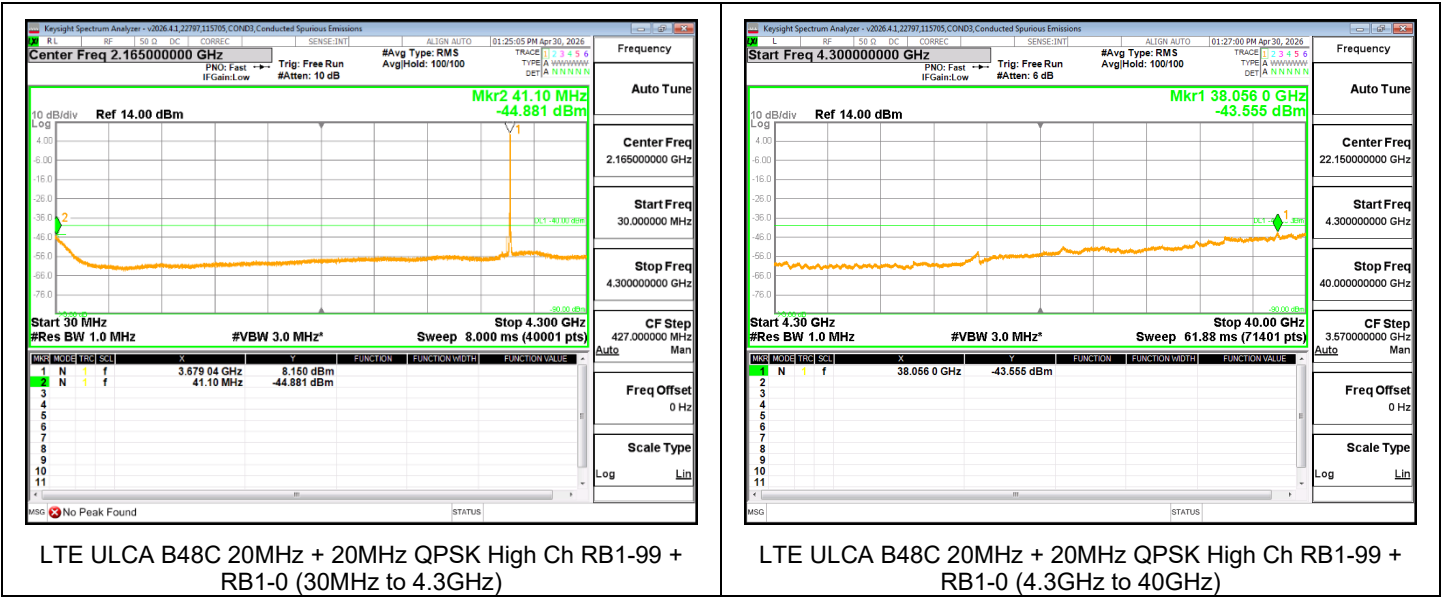
8.3.2. 5G NR n48





8.3.3. LTE ULCA BAND 48C





8.4. FREQUENCY STABILITY

TEST PROCEDURE

Use base station simulator with Frequency Error measurement capability.

- Temp. = -30°C to +50°C
- Voltage = (85% - 100%)

Normal, 3.89VDC

End Voltage, 3.69VDC.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allows it to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50°C is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

RESULTS

See the following pages.

Test Engineer ID:	105900/84740	Test Date:	2026-04-08
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8.4.1. LTE BAND 48 QPSK (20MHz BANDWIDTH)

Band	48	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		3550	3700			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	3544.7500	3716.9750			
Extreme (50°C)		3544.7500	3716.9750	8.91	0.002	Yes
Extreme (40°C)		3544.7500	3716.9750	4.41	0.001	Yes
Extreme (30°C)		3544.7500	3716.9750	-6.53	-0.002	Yes
Extreme (10°C)		3544.7500	3716.9750	3.57	0.001	Yes
Extreme (0°C)		3544.7500	3716.9750	-4.43	-0.001	Yes
Extreme (-10°C)		3544.7500	3716.9750	8.55	0.002	Yes
Extreme (-20°C)		3544.7500	3716.9750	6.73	0.002	Yes
Extreme (-30°C)		3544.7500	3716.9750	6.84	0.002	Yes
20°C	End Point Voltage	3544.7500	3716.9750	-5.82	-0.002	Yes

8.4.2. 5G NR n48 BPSK (40MHz BANDWIDTH)

Band	48	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		3550	3700			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	3549.3225	3662.5750			
Extreme (50°C)		3549.3225	3662.5750	-0.0112	0.000	Yes
Extreme (40°C)		3549.3225	3662.5750	-0.022	0.000	Yes
Extreme (30°C)		3549.3225	3662.5750	-0.0123	0.000	Yes
Extreme (10°C)		3549.3225	3662.5750	-0.0066	0.000	Yes
Extreme (0°C)		3549.3225	3662.5750	-0.0174	0.000	Yes
Extreme (-10°C)		3549.3225	3662.5750	-0.0078	0.000	Yes
Extreme (-20°C)		3549.3225	3662.5750	-0.0175	0.000	Yes
Extreme (-30°C)		3549.3225	3662.5750	0.0002	0.000	Yes
20°C	End Point Voltage	3549.3225	3662.5750	-0.0052	0.000	Yes

8.4.3. LTE ULCA BAND 48C QPSK (20MHz + 20MHz BANDWIDTH)

Band	48	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		3550	3700			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	3521.2000	3736.5750			
Extreme (50°C)		3521.2000	3736.5750	32.66	0.009	Yes
Extreme (40°C)		3521.2000	3736.5750	33.76	0.009	Yes
Extreme (30°C)		3521.2000	3736.5750	32.11	0.009	Yes
Extreme (10°C)		3521.2000	3736.5750	13.59	0.004	Yes
Extreme (0°C)		3521.2000	3736.5750	-14.58	-0.004	Yes
Extreme (-10°C)		3521.2000	3736.5750	-22.49	-0.006	Yes
Extreme (-20°C)		3521.2000	3736.5750	-34.01	-0.009	Yes
Extreme (-30°C)		3521.2000	3736.5750	-31.19	-0.009	Yes
20°C	End Point Voltage	3521.2000	3736.5750	19.79	0.005	Yes

8.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

RESULT

Antenna F was used to measure as the worst case; full resource block (FRB) for each bandwidth was used to measure as the worst case. The results from all CCDF measurements are passed with 13dB peak-to-average power ratio criteria.

Test Engineer ID:	105900/84740	Test Date:	2026-03-27
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TEST PROCEDURE

The EUT was connected to a wideband power sensor to measure peak and average output power.

8.5.1. LTE BAND 48

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
Band 48	5MHz	3625.0	25	0	QPSK	26.85	21.62	5.23
					16QAM	27.24	20.65	6.59
	10MHz		50	0	QPSK	27.09	21.62	5.47
					16QAM	27.57	20.65	6.92
	15MHz	3620.0	75	0	QPSK	27.08	19.35	7.73
					16QAM	27.57	22.06	5.51
	20MHz		100	0	QPSK	27.28	19.37	7.91
					16QAM	27.62	22.08	5.54
Duty Cycle Correction Factor (dB) =								
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

8.5.2. 5G NR n48

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power
						Peak	Average	
5G NR n48	10MHz	3600.0	24	0	BPSK	27.05	23.01	4.04
					16QAM	26.98	21.77	5.21
	15MHz		36	0	BPSK	29.84	23.55	6.29
					16QAM	29.71	21.84	7.87
	20MHz		50	0	BPSK	29.4	23.50	5.90
					16QAM	29.57	21.81	7.76
	30MHz		75	0	BPSK	29.62	23.49	6.13
					16QAM	29.48	21.87	7.61
40MHz	100	0	BPSK	29.42	21.83	7.59		
			16QAM	29.29	21.80	7.49		
Duty Cycle Correction Factor (dB) =								
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

8.5.3. LTE ULCA BAND 48C

Band	Bandwidth (MHz)	PCC f (MHz)	SCC1 f (MHz)	Modulation	Conducted Power (dBm)		Peak-to-Average Power
					Peak	Average	
LTE ULCA Band 48C	5MHz / 20MHz	3615.8	3627.5	QPSK	25.16	17.98	7.18
				16QAM	24.92	17.64	7.28
	20MHz / 5MHz	3622.5	3634.2	QPSK	27.17	20.13	7.04
				16QAM	27.15	19.24	7.91
	10MHz / 20MHz	3615.6	3630.0	QPSK	25.48	18.36	7.12
				16QAM	25.14	17.41	7.73
	20MHz / 10MHz	3620.1	3634.5	QPSK	26.68	19.11	7.57
				16QAM	26.3	18.02	8.28
	15MHz / 20MHz	3615.3	3632.4	QPSK	25.18	18.22	6.96
				16QAM	24.91	17.23	7.68
	20MHz / 15MHz	3617.6	3634.7	QPSK	26.07	18.57	7.50
				16QAM	25.51	17.78	7.73
	20MHz / 20MHz	3615.1	3634.9	QPSK	26.36	18.48	7.88
				16QAM	24.92	17.35	7.57
Duty Cycle Correction Factor (dB) =							
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor							

9. RADIATED TEST RESULTS

Radiated measurement using the Field Strength Method

Using the test configuration shown in Figure 6 below, the radiated emissions is measured directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits. As stated in 5.5.1 of ANSI C63.26-2015, the field strength measurement method using a test site validated to the requirements of ANSI C63.4 is an alternative to the substitution measurement method.

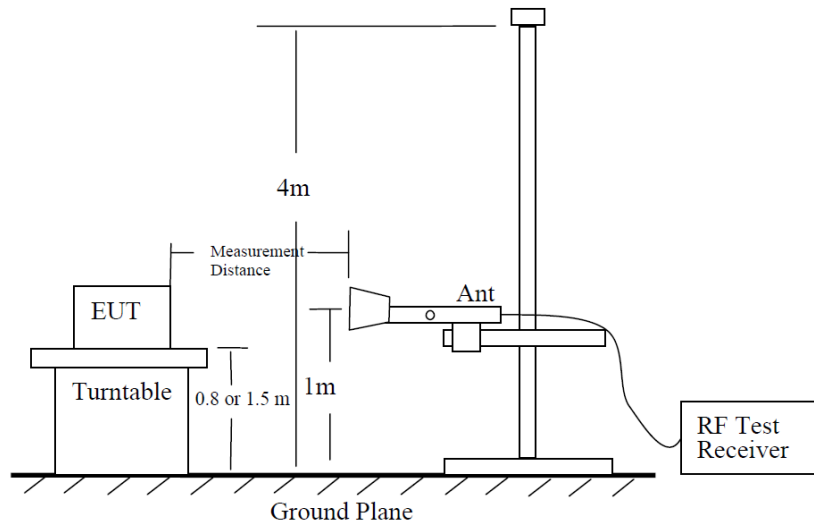


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

Radiated Power Measurement Calculation According to ANSI C63.26-2015

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
- b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
- c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m.
- d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.

So, from d)

The measuring distance is usually at 3m, then $20 \cdot \log(3) = 9.5424$

Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

Note: Confidence check of each chamber is performed daily to see if any degradation from expected/normal reading reference data. Ambient check of each chamber is performed monthly.

9.1. EFFECTIVE ISOTROPIC RADIATED POWER (EIRP)

LIMITS

FCC: §96.41

(b) Power Limits—

Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

Device	Maximum EIRP (dBm/10megahertz)	Maximum PSD (dBm/MHz)
End User Device	23 (0.2 W/10 MHz)	n/a
Category A CBSD	30	20
Category B CBSD1	47	37

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015

KDB 971168 D01 Section 5.2

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT} - \text{LC}$$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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

measurement function.

TEST RESULTS

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
Config 0 - Ant F						
LTE B48	1.992	5.019	0.397	39.69	4.01	0.502
5GNR FR1 n48	1.000	5.004	0.200	19.98	6.99	1.000
LTE ULCA B48C	2.980	5.000	0.596	59.60	2.25	0.336



9.1.1. LTE BAND 48

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
3552.500	LTE B48 / 5MHz (ANT F)	RB1-0	QPSK	0.109	20.38	23.01	-2.63
3625.000		RB1-12	QPSK	0.104	20.18	23.01	-2.83
3697.500		RB1-25	QPSK	0.096	19.84	23.01	-3.17
3552.500		RB1-0	16QAM	0.040	16.02	23.01	-6.99
3625.000		RB1-12	16QAM	0.033	15.18	23.01	-7.83
3697.500		RB1-25	16QAM	0.129	21.11	23.01	-1.90
3555.000	LTE B48 / 10MHz (ANT F)	RB1-0	QPSK	0.109	20.38	23.01	-2.63
3620.000		RB1-25	QPSK	0.104	20.18	23.01	-2.83
3695.000		RB1-49	QPSK	0.096	19.84	23.01	-3.17
3555.000		RB1-0	16QAM	0.048	16.80	23.01	-6.21
3620.000		RB1-25	16QAM	0.041	16.17	23.01	-6.84
3695.000		RB1-49	16QAM	0.129	21.11	23.01	-1.90
3557.500	LTE B48 / 15MHz (ANT F)	RB1-0	QPSK	0.109	20.36	23.01	-2.65
3620.000		RB1-37	QPSK	0.071	18.53	23.01	-4.48
3692.500		RB1-74	QPSK	0.081	19.09	23.01	-3.92
3557.500		RB1-0	16QAM	0.042	16.19	23.01	-6.82
3620.000		RB1-37	16QAM	0.031	14.93	23.01	-8.08
3692.500		RB1-74	16QAM	0.034	15.36	23.01	-7.65
3560.000	LTE48/20MHz (ANT F)	RB1-0	QPSK	0.108	20.35	23.01	-2.66
3620.000		RB1-49	QPSK	0.051	17.06	23.01	-5.95
3690.000		RB1-99	QPSK	0.130	21.15	23.01	-1.86
3560.000		RB1-0	16QAM	0.087	19.42	23.01	-3.59
3620.000		RB1-49	16QAM	0.044	16.47	23.01	-6.54
3690.000		RB1-99	16QAM	0.109	20.39	23.01	-2.62

CONFIG 0

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
3552.500	LTE B48 / 5MHz (ANT C)	RB1-0	QPSK	0.056	17.51	23.01	-5.50
3625.000		RB1-12	QPSK	0.054	17.31	23.01	-5.70
3697.500		RB1-25	QPSK	0.050	16.97	23.01	-6.04
3552.500		RB1-0	16QAM	0.030	14.80	23.01	-8.21
3625.000		RB1-12	16QAM	0.036	15.62	23.01	-7.39
3697.500		RB1-25	16QAM	0.034	15.27	23.01	-7.74
3555.000	LTE B48 / 10MHz (ANT C)	RB1-0	QPSK	0.057	17.56	23.01	-5.45
3620.000		RB1-25	QPSK	0.054	17.30	23.01	-5.71
3695.000		RB1-49	QPSK	0.050	17.02	23.01	-5.99
3555.000		RB1-0	16QAM	0.037	15.70	23.01	-7.31
3620.000		RB1-25	16QAM	0.035	15.44	23.01	-7.57
3695.000		RB1-49	16QAM	0.025	13.95	23.01	-9.06
3557.500	LTE B48 / 15MHz (ANT C)	RB1-0	QPSK	0.056	17.49	23.01	-5.52
3620.000		RB1-37	QPSK	0.052	17.18	23.01	-5.83
3692.500		RB1-74	QPSK	0.050	16.96	23.01	-6.05
3557.500		RB1-0	16QAM	0.037	15.70	23.01	-7.31
3620.000		RB1-37	16QAM	0.034	15.38	23.01	-7.64
3692.500		RB1-74	16QAM	0.033	15.19	23.01	-7.82
3560.000	LTE48/20MHz (ANT C)	RB1-0	QPSK	0.056	17.48	23.01	-5.53
3620.000		RB1-49	QPSK	0.048	16.82	23.01	-6.19
3690.000		RB1-99	QPSK	0.041	16.14	23.01	-6.87
3560.000		RB1-0	16QAM	0.035	15.49	23.01	-7.52
3620.000		RB1-49	16QAM	0.035	15.43	23.01	-7.58
3690.000		RB1-99	16QAM	0.030	14.78	23.01	-8.23

CONFIG 1

9.1.2. 5G NR n48

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
3555.000	n48 / 10MHz (ANT F)	RB1-1	BPSK	0.122	20.85	23.01	-2.16
3601.650		RB1-12	BPSK	0.124	20.93	23.01	-2.08
3648.330		RB1-22	BPSK	0.142	21.51	23.01	-1.50
3555.000		RB1-1	16QAM	0.071	18.54	23.01	-4.47
3601.650		RB1-12	16QAM	0.073	18.62	23.01	-4.39
3648.330		RB1-22	16QAM	0.089	19.49	23.01	-3.52
3557.520	n48 / 15MHz (ANT F)	RB1-1	BPSK	0.125	20.97	23.01	-2.04
3602.490		RB1-19	BPSK	0.127	21.03	23.01	-1.98
3647.490		RB1-36	BPSK	0.129	21.1	23.01	-1.91
3557.520		RB1-1	16QAM	0.087	19.42	23.01	-3.59
3602.490		RB1-19	16QAM	0.089	19.51	23.01	-3.50
3647.490		RB1-36	16QAM	0.089	19.48	23.01	-3.53
3560.010	n48 / 20MHz (ANT F)	RB1-1	BPSK	0.124	20.95	23.01	-2.06
3603.330		RB1-25	BPSK	0.125	20.96	23.01	-2.05
3646.650		RB1-49	BPSK	0.128	21.06	23.01	-1.95
3560.010		RB1-1	16QAM	0.088	19.44	23.01	-3.57
3603.330		RB1-25	16QAM	0.086	19.32	23.01	-3.69
3646.650		RB1-49	16QAM	0.089	19.49	23.01	-3.52
3565.020	n48 / 30MHz (ANT F)	RB1-1	BPSK	0.122	20.88	23.01	-2.13
3605.010		RB1-39	BPSK	0.121	20.84	23.01	-2.17
3645.000		RB1-76	BPSK	0.127	21.05	23.01	-1.96
3565.020		RB1-1	16QAM	0.086	19.36	23.01	-3.65
3605.010		RB1-39	16QAM	0.085	19.3	23.01	-3.71
3645.000		RB1-76	16QAM	0.090	19.56	23.01	-3.45
3570.000	FR1 n48 (40MHz) (ANT F)	RB1-1	BPSK	0.122	20.85	23.01	-2.16
3606.660		RB1-53	BPSK	0.094	19.73	23.01	-3.28
3643.320		RB1-104	BPSK	0.115	20.59	23.01	-2.42
3570.000		RB1-1	16QAM	0.088	19.45	23.01	-3.56
3606.660		RB1-53	16QAM	0.070	18.43	23.01	-4.58
3643.320		RB1-104	16QAM	0.090	19.56	23.01	-3.45

CONFIG 0

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
3555.000	n48 / 10MHz (ANT C)	RB1-1	QPSK	0.066	18.19	23.01	-4.82
3601.650		RB1-12	QPSK	0.081	19.09	23.01	-3.92
3648.330		RB1-22	QPSK	0.074	18.71	23.01	-4.30
3555.000		RB1-1	16QAM	0.063	17.98	23.01	-5.03
3601.650		RB1-12	16QAM	0.061	17.87	23.01	-5.14
3648.330		RB1-22	16QAM	0.057	17.59	23.01	-5.42
3557.520	n48 / 15MHz (ANT C)	RB1-1	QPSK	0.086	19.32	23.01	-3.69
3602.490		RB1-19	QPSK	0.089	19.47	23.01	-3.54
3647.490		RB1-36	QPSK	0.074	18.71	23.01	-4.30
3557.520		RB1-1	16QAM	0.066	18.17	23.01	-4.84
3602.490		RB1-19	16QAM	0.068	18.34	23.01	-4.67
3647.490		RB1-36	16QAM	0.069	18.38	23.01	-4.63
3560.010	n48 / 20MHz (ANT C)	RB1-1	QPSK	0.084	19.24	23.01	-3.77
3603.330		RB1-25	QPSK	0.088	19.45	23.01	-3.56
3646.650		RB1-49	QPSK	0.085	19.3	23.01	-3.71
3560.010		RB1-1	16QAM	0.065	18.10	23.01	-4.91
3603.330		RB1-25	16QAM	0.069	18.37	23.01	-4.64
3646.650		RB1-49	16QAM	0.071	18.51	23.01	-4.50
3565.020	n48 / 30MHz (ANT C)	RB1-1	QPSK	0.086	19.32	23.01	-3.69
3605.010		RB1-39	QPSK	0.085	19.27	23.01	-3.74
3645.000		RB1-76	QPSK	0.055	17.39	23.01	-5.62
3565.020		RB1-1	16QAM	0.067	18.27	23.01	-4.74
3605.010		RB1-39	16QAM	0.065	18.16	23.01	-4.85
3645.000		RB1-76	16QAM	0.069	18.38	23.01	-4.63
3570.000	FR1 n48 (40MHz) (ANT C)	RB1-1	QPSK	0.085	19.30	23.01	-3.71
3606.660		RB1-53	QPSK	0.065	18.16	23.01	-4.85
3643.320		RB1-104	QPSK	0.063	17.99	23.01	-5.02
3570.000		RB1-1	16QAM	0.068	18.31	23.01	-4.70
3606.660		RB1-53	16QAM	0.052	17.17	23.01	-5.84
3643.320		RB1-104	16QAM	0.051	17.07	23.01	-5.94

SRS ANT C

MHz)	Band/Bandwidth	RB Size- Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
3555.000	n48 / 10MHz (SRS ANT A)	RB1-1	BPSK	0.049	16.86	23.01	-6.15
3601.650		RB1-12	BPSK	0.053	17.23	23.01	-5.78
3648.330		RB1-22	BPSK	0.048	16.84	23.01	-6.17
3555.000		RB1-1	16QAM	0.038	15.83	23.01	-7.18
3601.650		RB1-12	16QAM	0.041	16.12	23.01	-6.89
3648.330		RB1-22	16QAM	0.038	15.76	23.01	-7.25
3557.520	n48 / 15MHz (SRS ANT A)	RB1-1	BPSK	0.052	17.14	23.01	-5.87
3602.490		RB1-19	BPSK	0.041	16.17	23.01	-6.84
3647.490		RB1-36	BPSK	0.039	15.92	23.01	-7.09
3557.520		RB1-1	16QAM	0.041	16.11	23.01	-6.90
3602.490		RB1-19	16QAM	0.032	15.11	23.01	-7.90
3647.490		RB1-36	16QAM	0.030	14.77	23.01	-8.24
3560.010	n48 / 20MHz (SRS ANT A)	RB1-1	BPSK	0.050	17.02	23.01	-5.99
3603.330		RB1-25	BPSK	0.041	16.12	23.01	-6.89
3646.650		RB1-49	BPSK	0.040	15.97	23.01	-7.04
3560.010		RB1-1	16QAM	0.040	15.97	23.01	-7.04
3603.330		RB1-25	16QAM	0.032	15	23.01	-8.01
3646.650		RB1-49	16QAM	0.026	14.08	23.01	-8.93
3565.020	n48 / 30MHz (SRS ANT A)	RB1-1	BPSK	0.045	16.49	23.01	-6.52
3605.010		RB1-39	BPSK	0.039	15.96	23.01	-7.05
3645.000		RB1-76	BPSK	0.040	15.99	23.01	-7.02
3565.020		RB1-1	16QAM	0.035	15.42	23.01	-7.59
3605.010		RB1-39	16QAM	0.031	14.89	23.01	-8.12
3645.000		RB1-76	16QAM	0.031	14.93	23.01	-8.08
3570.000	FR1 n48 (40MHz) (SRS ANT A)	RB1-1	BPSK	0.031	14.93	23.01	-8.08
3606.660		RB1-53	BPSK	0.026	14.18	23.01	-8.83
3643.320		RB1-104	BPSK	0.015	11.78	23.01	-11.23
3570.000		RB1-1	16QAM	0.024	13.89	23.01	-9.12
3606.660		RB1-53	16QAM	0.021	13.31	23.01	-9.70
3643.320		RB1-104	16QAM	0.012	10.65	23.01	-12.36

SRS ANT A

Frequency (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
3555.000	n48 / 10MHz (SRS ANT G)	RB1-1	BPSK	0.030	14.82	23.01	-8.20
3601.650		RB1-12	BPSK	0.030	14.76	23.01	-8.25
3648.330		RB1-22	BPSK	0.030	14.83	23.01	-8.18
3555.000		RB1-1	16QAM	0.022	13.46	23.01	-9.55
3601.650		RB1-12	16QAM	0.022	13.35	23.01	-9.66
3648.330		RB1-22	16QAM	0.022	13.45	23.01	-9.56
3557.520	n48 / 15MHz (SRS ANT G)	RB1-1	BPSK	0.030	14.78	23.01	-8.23
3602.490		RB1-19	BPSK	0.029	14.67	23.01	-8.34
3647.490		RB1-36	BPSK	0.030	14.82	23.01	-8.19
3557.520		RB1-1	16QAM	0.022	13.40	23.01	-9.61
3602.490		RB1-19	16QAM	0.021	13.29	23.01	-9.72
3647.490		RB1-36	16QAM	0.022	13.41	23.01	-9.60
3560.010	n48 / 20MHz (SRS ANT G)	RB1-1	BPSK	0.030	14.78	23.01	-8.23
3603.330		RB1-25	BPSK	0.029	14.65	23.01	-8.36
3646.650		RB1-49	BPSK	0.030	14.76	23.01	-8.25
3560.010		RB1-1	16QAM	0.021	13.31	23.01	-9.70
3603.330		RB1-25	16QAM	0.021	13.24	23.01	-9.77
3646.650		RB1-49	16QAM	0.021	13.28	23.01	-9.73
3565.020	n48 / 30MHz (SRS ANT G)	RB1-1	BPSK	0.031	14.89	23.01	-8.12
3605.010		RB1-39	BPSK	0.029	14.60	23.01	-8.41
3645.000		RB1-76	BPSK	0.030	14.82	23.01	-8.19
3565.020		RB1-1	16QAM	0.022	13.37	23.01	-9.64
3605.010		RB1-39	16QAM	0.021	13.20	23.01	-9.81
3645.000		RB1-76	16QAM	0.022	13.41	23.01	-9.60
3570.000	FR1 n48 (40MHz) (SRS ANT G)	RB1-1	BPSK	0.030	14.84	23.01	-8.17
3606.660		RB1-53	BPSK	0.021	13.29	23.01	-9.72
3643.320		RB1-104	BPSK	0.026	14.22	23.01	-8.79
3570.000		RB1-1	16QAM	0.023	13.71	23.01	-9.30
3606.660		RB1-53	16QAM	0.016	12.09	23.01	-10.92
3643.320		RB1-104	16QAM	0.020	13.11	23.01	-9.90

SRS ANT G

9.1.3. LTE ULCA BAND 48C

Freq (MHz)	Band/Bandwidth	PCC RB Size-Offset	SCC RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
3569.900	ULCA LTE B48 ANT F (20+20 MHz)	RB1-99	RB1-0	QPSK	0.105	20.20	23.01	-2.81
3625.000		RB1-99	RB1-0	QPSK	0.108	20.35	23.01	-2.66
3680.100		RB1-99	RB1-0	QPSK	0.143	21.55	23.01	-1.46
3569.900		RB1-99	RB1-0	16QAM	0.084	19.23	23.01	-3.78
3625.000		RB1-99	RB1-0	16QAM	0.087	19.40	23.01	-3.61
3680.100		RB1-99	RB1-0	16QAM	0.134	21.26	23.01	-1.75

CONFIG 0

Freq (MHz)	Band/Bandwidth	PCC RB Size-Offset	SCC RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
3569.900	ULCA LTE B48 ANT C (20+20 MHz)	RB1-99	RB1-0	QPSK	0.078	18.92	23.01	-4.09
3625.000		RB1-99	RB1-0	QPSK	0.097	19.85	23.01	-3.16
3680.100		RB1-99	RB1-0	QPSK	0.090	19.55	23.01	-3.46
3569.900		RB1-99	RB1-0	16QAM	0.063	17.97	23.01	-5.04
3625.000		RB1-99	RB1-0	16QAM	0.075	18.76	23.01	-4.25
3680.100		RB1-99	RB1-0	16QAM	0.074	18.68	23.01	-4.33

CONFIG 1

9.2. FIELD STRENGTH OF SPURIOUS RADIATION

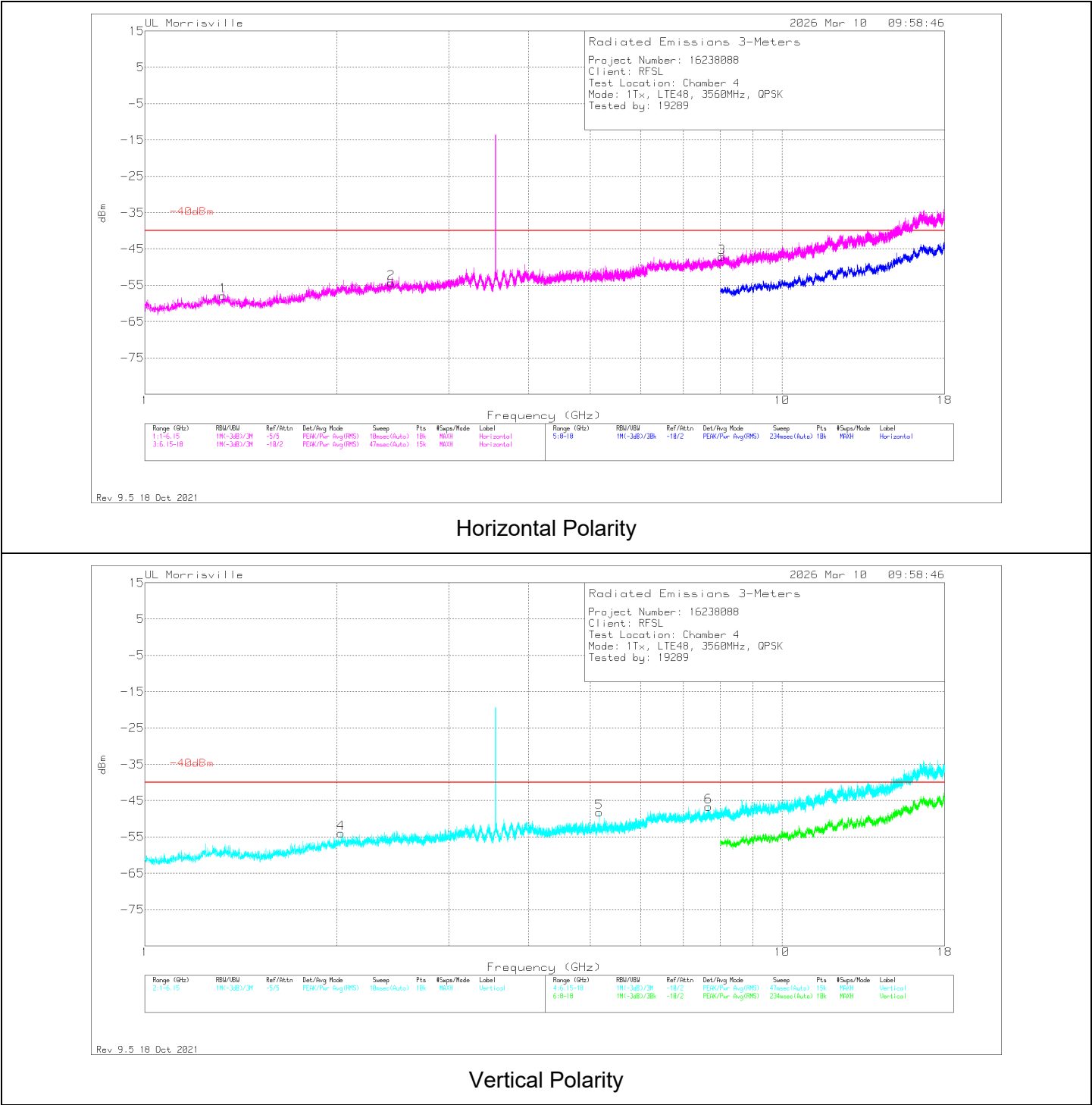
LIMITS

FCC: §96.41

(e) 3.5 GHz Emissions and Interference Limits—

(2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz .

Example Plot



Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	1.32651	-63.67	Pk	29.2	-35.6	11.8	.4	-57.87	-40	-17.87	0-360	200	H
4	2.03155	-62.42	Pk	31.7	-35.8	11.8	.7	-54.02	-40	-14.02	0-360	300	V
2	2.43479	-63.26	Pk	32.2	-35.7	11.8	.6	-54.36	-40	-14.36	0-360	100	H
5	5.16584	-63.86	Pk	34.1	-30.8	11.8	.5	-48.26	-40	-8.26	0-360	300	V
6	7.66443	-68.61	Pk	35.6	-26.1	11.8	.7	-46.61	-40	-6.61	0-360	300	V
3	8.046	-68.74	Pk	35.6	-26.6	11.8	.7	-47.24	-40	-7.24	0-360	100	H

TEST PROCEDURE

KDB 971168 D01 /D02

All tests above 1GHz were done with a Resolution Bandwidth of 1MHz, and a Video Bandwidth of 3MHz

RESULTS

9.2.1. LTE BAND 48

QPSK LTE BAND 48 (20MHz BANDWIDTH, Config 0)

Project #:	16238088
Date:	2026-03-10
Test Engineer:	19289
Configuration:	EUT only
Mode	LTE B48 QPSK 20MHz
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3560MHz										
1.32651	-63.67	Pk	29.2	-35.6	11.8	.4	-57.87	-40	-17.87	H
2.03155	-62.42	Pk	31.7	-35.8	11.8	.7	-54.02	-40	-14.02	V
2.43479	-63.26	Pk	32.2	-35.7	11.8	.6	-54.36	-40	-14.36	H
5.16584	-63.86	Pk	34.1	-30.8	11.8	.5	-48.26	-40	-8.26	V
7.66443	-68.61	Pk	35.6	-26.1	11.8	.7	-46.61	-40	-6.61	V
8.046	-68.74	Pk	35.6	-26.6	11.8	.7	-47.24	-40	-7.24	H
Mid Channel, 3600MHz										
6.00271	-67.13	Pk	35.2	-29.7	11.8	.6	-49.23	-40	-9.23	V
6.05679	-66.68	Pk	35.2	-29.1	11.8	.5	-48.28	-40	-8.28	H
6.21083	-66.64	Pk	35.3	-27.6	11.8	.5	-46.64	-40	-6.64	H
6.88233	-67.13	Pk	35.5	-26.8	11.8	.5	-46.13	-40	-6.13	V
9.90137	-67.87	Pk	37	-24.9	11.8	.9	-43.07	-40	-3.07	H
9.90406	-68	Pk	37	-25	11.8	.9	-43.3	-40	-3.3	V
High Channel, 3630MHz										
1.97953	-62.5	Pk	31.1	-35.7	11.8	.8	-54.5	-40	-14.5	H
2.04082	-62.4	Pk	31.7	-35.7	11.8	.7	-53.9	-40	-13.9	V
4.73736	-65.59	Pk	34	-31.1	11.8	.6	-50.29	-40	-10.29	V
4.92224	-64.94	Pk	33.8	-31	11.8	.4	-49.94	-40	-9.94	H
7.56805	-68.23	Pk	35.5	-26.4	11.8	.7	-46.63	-40	-6.63	H
7.82322	-68.34	Pk	35.7	-26.7	11.8	.8	-46.74	-40	-6.74	V

QPSK LTE BAND 48 (20MHz BANDWIDTH, Config 1)

Project #:	16238088
Date:	2026-03-10
Test Engineer:	19289
Configuration:	EUT only
Mode	LTE B48 QPSK 20MHz
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3560MHz										
2.15772	-62.87	Pk	31.5	-35.5	11.8	.5	-54.57	-40	-14.57	V
2.28029	-63.36	Pk	31.8	-35.6	11.8	.6	-54.76	-40	-14.76	H
5.28995	-66.49	Pk	34.4	-31.1	11.8	.5	-50.89	-40	-10.89	V
5.35381	-66.28	Pk	34.4	-30.8	11.8	.5	-50.38	-40	-10.38	H
8.01519	-68.7	Pk	35.7	-26.8	11.8	.7	-47.3	-40	-7.3	H
8.07444	-68.72	Pk	35.6	-26.6	11.8	.9	-47.02	-40	-7.02	V
Mid Channel, 3600MHz										
2.26072	-61.92	Pk	31.7	-35.7	11.8	.7	-53.42	-40	-13.42	H
2.36166	-62.6	Pk	31.9	-35.5	11.8	.8	-53.6	-40	-13.6	V
4.69255	-66.15	Pk	34.1	-31.1	11.8	.4	-50.95	-40	-10.95	V
4.88516	-65.17	Pk	33.9	-31.7	11.8	.5	-50.67	-40	-10.67	H
8.19452	-68.66	Pk	35.7	-26.1	11.8	.7	-46.56	-40	-6.56	H
8.23402	-69.89	Pk	35.7	-25.8	11.8	.9	-47.29	-40	-7.29	V
High Channel, 3630MHz										
2.35806	-63.11	Pk	31.9	-35.5	11.8	.7	-54.21	-40	-14.21	V
2.49762	-63.38	Pk	32.4	-35.6	11.8	.7	-54.08	-40	-14.08	H
4.79916	-66.78	Pk	33.9	-31	11.8	.5	-51.58	-40	-11.58	H
4.89701	-66.03	Pk	33.8	-31.6	11.8	.5	-51.53	-40	-11.53	V
7.92711	-69.63	Pk	35.7	-26.1	11.8	.7	-47.53	-40	-7.53	V
8.00492	-67.89	Pk	35.7	-26.9	11.8	.8	-46.49	-40	-6.49	H

9.2.2. 5G NR n48

QPSK 5G NR n48 (40MHZ BANDWIDTH, Config 0)

Project #:	16238088
Date:	2026-03-19
Test Engineer:	19289
Configuration:	EUT only
Mode	5G NR n48 QPSK 40MHz
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3570MHz										
2.43788	-62.15	Pk	32.2	-35.8	11.8	.6	-53.35	-40	-13.35	H
2.47651	-62.54	Pk	32.3	-35.5	11.8	.7	-53.24	-40	-13.24	V
5.47844	-66.18	Pk	34.4	-30.4	11.8	.5	-49.88	-40	-9.88	H
5.53458	-66.32	Pk	34.4	-30.7	11.8	.5	-50.32	-40	-10.32	V
7.95752	-68.34	Pk	35.7	-26.5	11.8	.8	-46.54	-40	-6.54	H
8.14554	-69.15	Pk	35.6	-26	11.8	.9	-46.85	-40	-6.85	V
Mid Channel, 3600MHz										
2.35806	-63.11	Pk	31.9	-35.5	11.8	.7	-54.21	-40	-14.21	V
2.49762	-63.38	Pk	32.4	-35.6	11.8	.7	-54.08	-40	-14.08	H
4.79916	-66.78	Pk	33.9	-31	11.8	.5	-51.58	-40	-11.58	H
4.89701	-66.03	Pk	33.8	-31.6	11.8	.5	-51.53	-40	-11.53	V
7.92711	-69.63	Pk	35.7	-26.1	11.8	.7	-47.53	-40	-7.53	V
8.00492	-67.89	Pk	35.7	-26.9	11.8	.8	-46.49	-40	-6.49	H
High Channel, 3630MHz										
2.24064	-62.2	Pk	31.6	-35.6	11.8	.8	-53.6	-40	-13.6	V
2.44973	-63.18	Pk	32.2	-35.4	11.8	.7	-53.88	-40	-13.88	H
5.28841	-66.47	Pk	34.4	-31.1	11.8	.5	-50.87	-40	-10.87	V
5.80907	-65.63	Pk	34.6	-29.6	11.8	.4	-48.43	-40	-8.43	H
8.06259	-68.51	Pk	35.6	-26.6	11.8	.8	-46.91	-40	-6.91	V
8.64719	-69.62	Pk	35.8	-25.4	11.8	1.3	-46.12	-40	-6.12	H

QPSK 5G NR n48 (40MHZ BANDWIDTH, Config 1)

Project #:	16238088
Date:	2026-03-23
Test Engineer:	19289
Configuration:	EUT only
Mode	5G NR n48 QPSK 40MHz
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3570MHz										
2.47857	-62.41	Pk	32.3	-35.5	11.8	.7	-53.11	-40	-13.11	V
2.55479	-61.64	Pk	32.4	-35.6	11.8	.6	-52.44	-40	-12.44	H
5.7071	-66.03	Pk	34.5	-29.8	11.8	.6	-48.93	-40	-8.93	V
6.05009	-67.38	Pk	35.2	-28.9	11.8	.4	-48.88	-40	-8.88	H
9.23329	-69.16	Pk	36.3	-24.6	11.8	1.5	-44.16	-40	-4.16	H
9.89942	-68.65	Pk	37	-24.8	11.8	.9	-43.75	-40	-3.75	V
Mid Channel, 3600MHz										
2.05112	-62.52	Pk	31.7	-35.6	11.8	.7	-53.92	-40	-13.92	V
2.45591	-62.1	Pk	32.1	-35.5	11.8	.7	-53	-40	-13	H
5.85697	-66.69	Pk	34.8	-29.7	11.8	.5	-49.29	-40	-9.29	V
5.8992	-67.14	Pk	34.9	-29.4	11.8	.5	-49.34	-40	-9.34	H
9.07882	-68.89	Pk	36	-24.4	11.8	1.6	-43.89	-40	-3.89	V
9.08468	-69.79	Pk	36	-24.5	11.8	1.6	-44.89	-40	-4.89	H
High Channel, 3630MHz										
5.89044	-66.37	Pk	34.9	-29.5	11.8	.5	-48.67	-40	-8.67	V
6.03361	-67.11	Pk	35.2	-29	11.8	.5	-48.61	-40	-8.61	H
7.84376	-68.3	Pk	35.7	-26.3	11.8	.9	-46.2	-40	-6.2	H
7.88642	-68.21	Pk	35.7	-26.1	11.8	.7	-46.11	-40	-6.11	V
9.39813	-68.61	Pk	36.5	-24.5	11.8	1	-43.81	-40	-3.81	H
9.88573	-68.26	Pk	36.9	-24.7	11.8	.8	-43.46	-40	-3.46	V

QPSK 5G NR n48 (40MHZ BANDWIDTH, SRS ANT A)

Project #:	16238088
Date:	3034-03+26
Test Engineer:	84740/11993
Configuration:	EUT only
Mode	5G NR n48 QPSK 40MHz
Chamber #:	Chamber 1

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3570MHz										
5.69886	-54.87	Pk	34.8	-43.1	11.8	.5	-50.87	-40	-10.87	H
6.09747	-53.95	Pk	35.3	-43.8	11.8	.5	-50.15	-40	-10.15	V
8.48208	-54.7	Pk	35.7	-41.5	11.8	.9	-47.8	-40	-7.8	V
8.50025	-55.01	Pk	35.7	-41	11.8	.9	-47.61	-40	-7.61	H
9.34081	-55.23	Pk	36.4	-40.3	11.8	1.3	-46.03	-40	-6.03	H
9.3416	-55.69	Pk	36.4	-40.2	11.8	1.3	-46.39	-40	-6.39	V
Mid Channel, 360MHz										
5.9095	-53.62	Pk	35.1	-44.2	11.8	.5	-50.42	-40	-10.42	V
6.0331	-54.43	Pk	35.3	-43.6	11.8	.5	-50.43	-40	-10.43	H
8.11236	-54.93	Pk	35.7	-41.5	11.8	.9	-48.03	-40	-8.03	V
8.5516	-55.07	Pk	35.8	-40.8	11.8	1.1	-47.17	-40	-7.17	H
9.18518	-54.11	Pk	36.3	-41.4	11.8	1.3	-46.11	-40	-6.11	V
9.31316	-55.21	Pk	36.3	-40.1	11.8	1.1	-46.11	-40	-6.11	H
High Channel, 3630MHz										
5.73285	-54.66	Pk	34.8	-43.4	11.8	.5	-50.96	-40	-10.96	V
6.07636	-53.55	Pk	35.3	-44	11.8	.5	-49.95	-40	-9.95	H
8.11473	-54.26	Pk	35.7	-41.5	11.8	.9	-47.36	-40	-7.36	H
8.61085	-54.64	Pk	35.8	-41.1	11.8	.9	-47.24	-40	-7.24	V
9.30869	-53.45	Pk	36.3	-40	11.8	1.1	-44.25	-40	-4.25	V
9.75872	-54.91	Pk	36.9	-41	11.8	1	-46.21	-40	-6.21	H

QPSK 5G NR n48 (40MHZ BANDWIDTH, SRS ANT G)

Project #:	16238088
Date:	2026-03-30
Test Engineer:	84740/11993
Configuration:	EUT only
Mode	5G NR n48 QPSK 40MHz
Chamber #:	Chamber 1

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3570MHz										
1.99653	-64.07	Pk	31.3	-35.7	11.8	.7	-55.97	-40	-15.97	V
2.01816	-62.67	Pk	31.6	-35.8	11.8	.6	-54.47	-40	-14.47	H
5.03657	-65.81	Pk	34	-31.4	11.8	.5	-50.91	-40	-10.91	H
5.08344	-66.55	Pk	34.2	-31.3	11.8	.5	-51.35	-40	-11.35	V
7.73395	-68.94	Pk	35.7	-27.2	11.8	.7	-47.94	-40	-7.94	V
8.12026	-68.51	Pk	35.6	-26	11.8	1	-46.11	-40	-6.11	H
Mid Channel, 3600MHz										
2.06039	-62.32	Pk	31.7	-35.8	11.8	.7	-53.92	-40	-13.92	H
2.13506	-62.25	Pk	31.4	-35.6	11.8	.7	-53.95	-40	-13.95	V
5.41613	-64.94	Pk	34.4	-30.8	11.8	.4	-49.14	-40	-9.14	V
5.58453	-64.31	Pk	34.3	-30.3	11.8	.5	-48.01	-40	-8.01	H
8.0697	-68.06	Pk	35.6	-26.6	11.8	.8	-46.46	-40	-6.46	V
8.10209	-68.14	Pk	35.6	-26.2	11.8	.9	-46.04	-40	-6.04	H
High Channel, 3630MHz										
2.05575	-62.95	Pk	31.7	-35.6	11.8	.7	-54.35	-40	-14.35	V
2.10983	-61.59	Pk	31.6	-35.8	11.8	.8	-53.19	-40	-13.19	H
4.93615	-64.93	Pk	33.8	-31.2	11.8	.5	-50.03	-40	-10.03	H
6.0573	-67.79	Pk	35.2	-29.1	11.8	.5	-49.39	-40	-9.39	V
7.86509	-69.09	Pk	35.7	-26	11.8	.8	-46.79	-40	-6.79	H
7.88721	-69.08	Pk	35.7	-26.1	11.8	.7	-46.98	-40	-6.98	V

9.2.3. LTE ULCA BAND 48C

QPSK LTE ULCA BAND 48B (20MHz + 20MHz BANDWIDTH, Config 0)

Project #:	16238088
Date:	2026-03-11
Test Engineer:	84740/11993
Configuration:	EUT only
Mode	LTE B48 QPSK 20MHz + 20MHz
Chamber #:	Chamber 2

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3560MHz + 3579.8MHz										
5588.135	-54.3	Pk	34.6	-44.1	11.8	.5	-51.5	-40	-11.5	V
5855.935	-54.51	Pk	35	-43.9	11.8	.5	-51.11	-40	-11.11	H
8831.26	-57.29	Pk	35.9	-39.6	11.8	1.3	-47.89	-40	-7.89	H
8831.26	-57.43	Pk	35.9	-39.6	11.8	1.3	-48.03	-40	-8.03	V
9898.55	-55.45	Pk	37.2	-41.8	11.8	.9	-47.35	-40	-7.35	V
9973.6	-55.99	Pk	37.3	-40.4	11.8	.4	-46.89	-40	-6.89	H
Mid Channel, 3615.1MHz + 3634.9MHz										
6054.725	-54.83	Pk	35.5	-44	11.8	.5	-51.03	-40	-11.03	H
6059.875	-55.7	Pk	35.5	-43.5	11.8	.6	-51.3	-40	-11.3	V
8105.25	-55.8	Pk	36	-41.5	11.8	.9	-48.6	-40	-8.6	H
8828.1	-56.91	Pk	35.9	-39.7	11.8	1.3	-47.61	-40	-7.61	V
9950.69	-54.65	Pk	37.3	-41.9	11.8	.4	-47.05	-40	-7.05	V
9987.82	-54.49	Pk	37.4	-41.6	11.8	.4	-46.49	-40	-6.49	H
High Channel, 3670.2MHz + 3690MHz										
5826.065	-54.94	Pk	35	-44	11.8	.5	-51.64	-40	-11.64	V
6147.425	-54.96	Pk	35.6	-43.5	11.8	.4	-50.66	-40	-10.66	H
8798.87	-56.69	Pk	35.9	-40.2	11.8	1.5	-47.69	-40	-7.69	H
8829.68	-56.42	Pk	35.9	-39.4	11.8	1.4	-46.72	-40	-6.72	V
9861.42	-56.05	Pk	37.1	-40.4	11.8	.6	-46.95	-40	-6.95	H
9938.05	-54.66	Pk	37.3	-41.6	11.8	.6	-46.56	-40	-6.56	V

QPSK LTE ULCA BAND 48B (20MHz + 20MHz BANDWIDTH, Config 1)

Project #:	16238088
Date:	2026-03-11
Test Engineer:	84740/11993
Configuration:	EUT only
Mode	LTE B48 QPSK 20MHz + 20MHz
Chamber #:	Chamber 2

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 3560MHz + 3579.8MHz										
5881.685	-55.57	Pk	35.1	-43.7	11.8	.5	-51.87	-40	-11.87	H
6106.225	-54.85	Pk	35.6	-43.6	11.8	.4	-50.65	-40	-10.65	V
8115.52	-56.01	Pk	36	-41.2	11.8	.9	-48.51	-40	-8.51	H
8831.26	-57.13	Pk	35.9	-39.6	11.8	1.3	-47.73	-40	-7.73	V
9856.68	-56.16	Pk	37.1	-40.1	11.8	.5	-46.86	-40	-6.86	H
9975.97	-54.83	Pk	37.3	-40.8	11.8	.4	-46.13	-40	-6.13	V
Mid Channel, 3615.1MHz + 3634.9MHz										
5818.855	-54.51	Pk	35	-44	11.8	.4	-51.31	-40	-11.31	H
5827.095	-54.23	Pk	35	-44	11.8	.5	-50.93	-40	-10.93	V
8538.96	-54.39	Pk	35.8	-41.5	11.8	1.1	-47.19	-40	-7.19	H
8828.1	-56.93	Pk	35.9	-39.7	11.8	1.3	-47.63	-40	-7.63	V
9852.73	-55.45	Pk	37.1	-40.3	11.8	.5	-46.35	-40	-6.35	V
9857.47	-55.86	Pk	37.1	-40.1	11.8	.6	-46.46	-40	-6.46	H
High Channel, 3670.2MHz + 3690MHz										
6058.845	-55.27	Pk	35.5	-43.6	11.8	.6	-50.97	-40	-10.97	H
6119.1	-55.03	Pk	35.6	-43.7	11.8	.5	-50.83	-40	-10.83	V
8807.56	-56.07	Pk	35.9	-41.1	11.8	1.5	-47.97	-40	-7.97	V
8830.47	-57.67	Pk	35.9	-39.4	11.8	1.4	-47.97	-40	-7.97	H
9886.7	-55.27	Pk	37.2	-41.6	11.8	.8	-47.07	-40	-7.07	H
9974.39	-56.04	Pk	37.3	-40.5	11.8	.4	-47.04	-40	-7.04	V

10. END USER DEVICE ADDITIONAL REQUIREMENT

TEST REQUIREMENT

FCC Part 96.47

- (a) End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.
- (1) An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

TEST PROCEDURE AND EUT CONFIGURATION

KDB 940660 D01 Part 96 CBRS v03,

Additional requirements are required for an End-User LTE Band 48, NR Band n48 device based on CBSD protocol. During the test, the EUT and its companion certified devices (listed below) communicate with each other via conducted method, and the required plots are captured.

Companion Certified CBSD Devices:

- LTE CBSD (FCC ID: P27-SCE4255W)
- NR CBSD (FCC ID: P27-SCE5164-B48)

Configuration 1

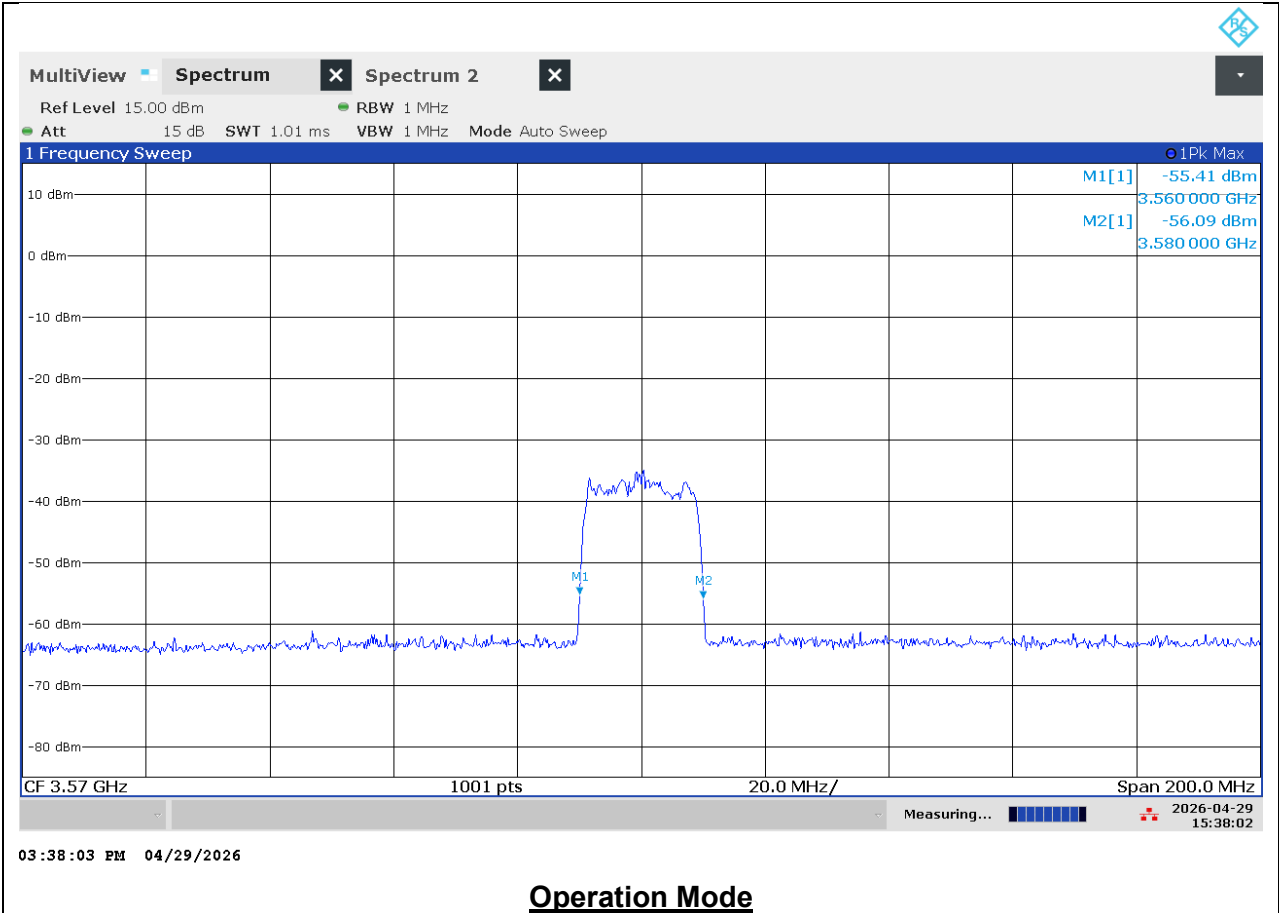
- a) Setup 4G Access Point with 3570MHz, 20MHz bandwidth
- b) Enable LTE B48 service from admin control panel
- c) Check EUT Transmitter Frequency and power
- d) Disable LTE B48 service and check EUT stop transmission within 10s.

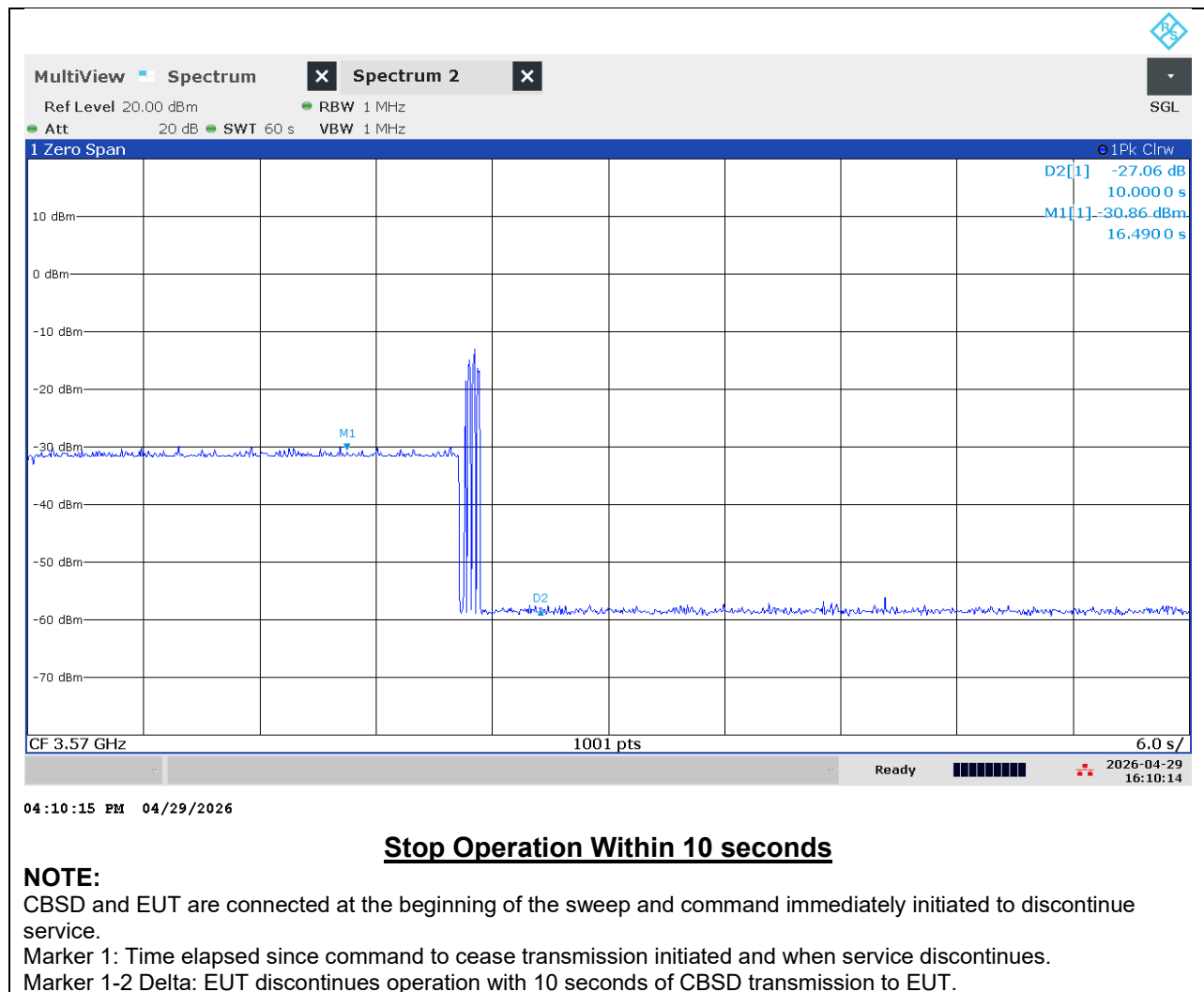
Configuration 2

- e) Setup 5G Access Point with 3560MHz, 20MHz bandwidth
- f) Enable FR1 NR n48 service from admin control panel
- g) Check EUT Transmitter Frequency and power
- h) Disable FR1 NR n48 service and check EUT stop transmission within 10s.

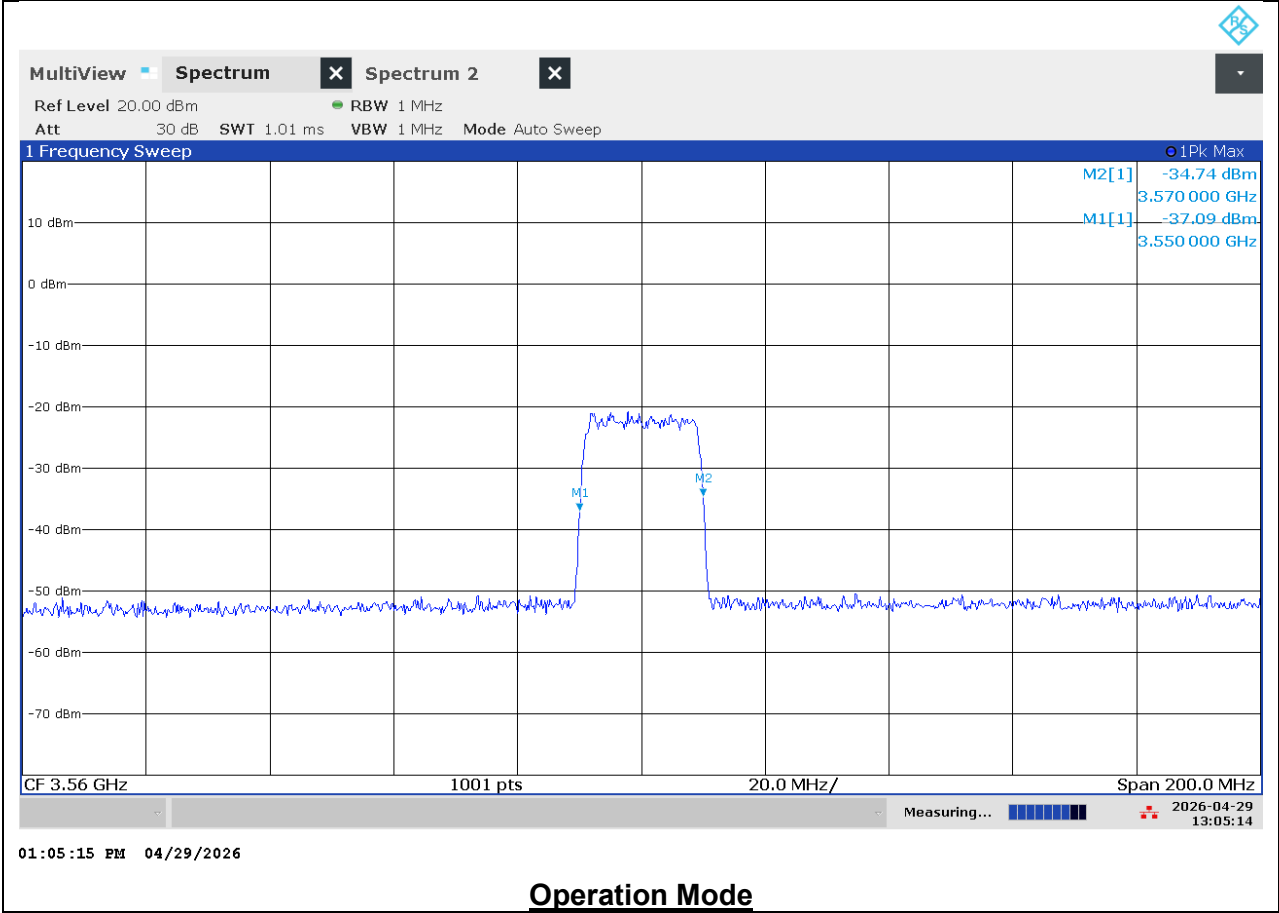
TEST RESULTS

End User Device Configuration 1

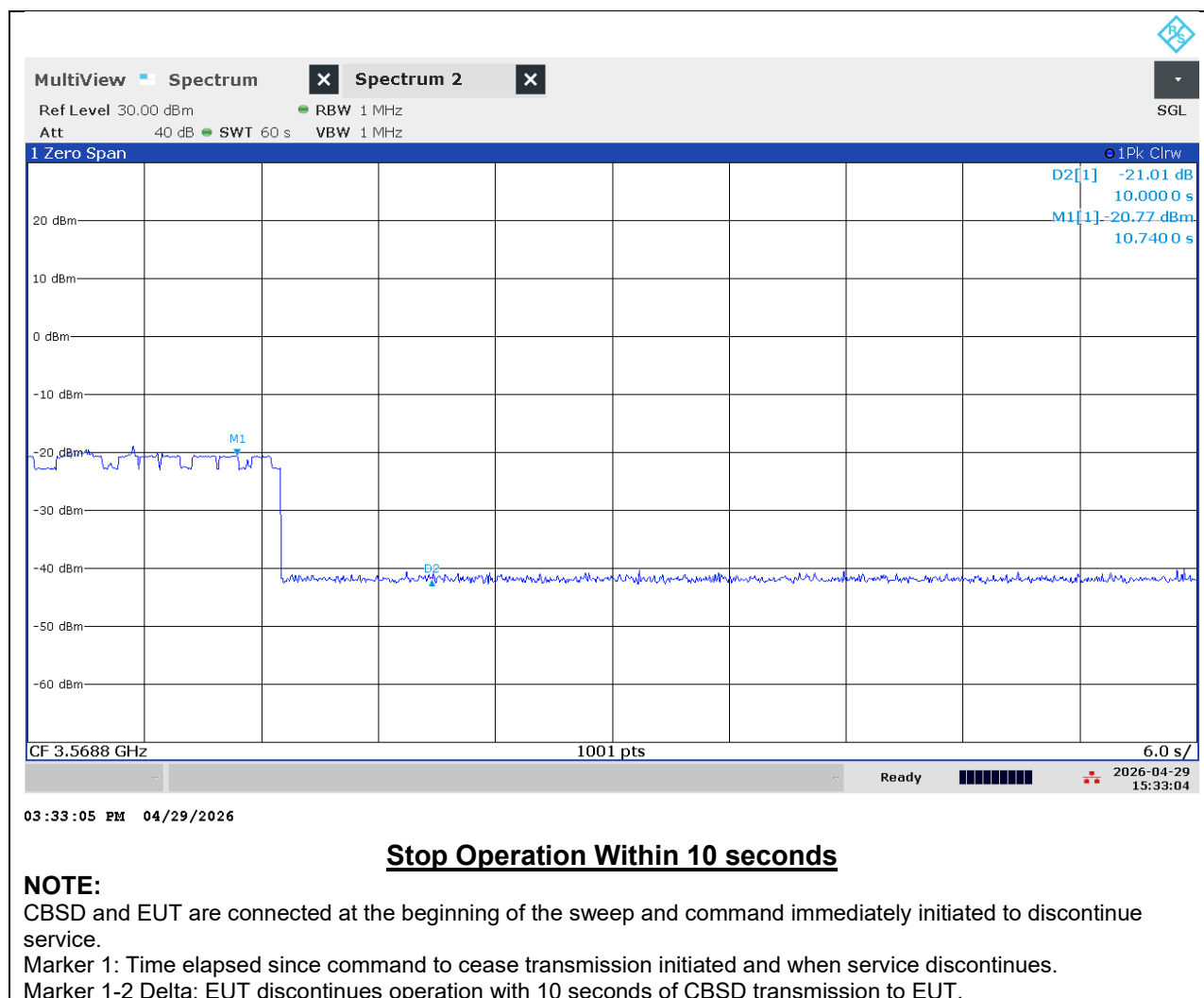




End User Device Configuration 2



Operation Mode



11. SETUP PHOTOS

Refer to R16238088-EP1 for setup photos.

END OF REPORT