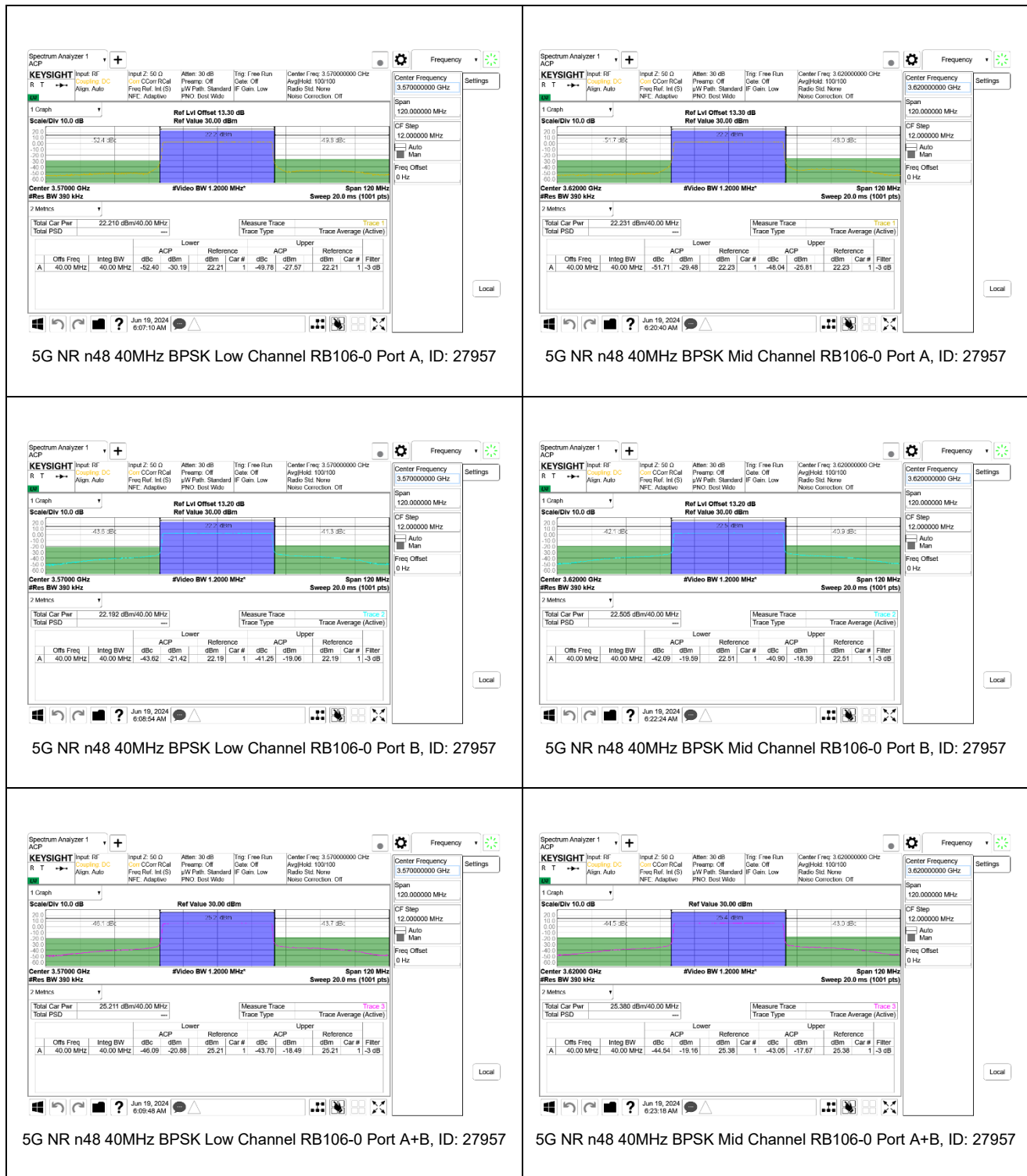
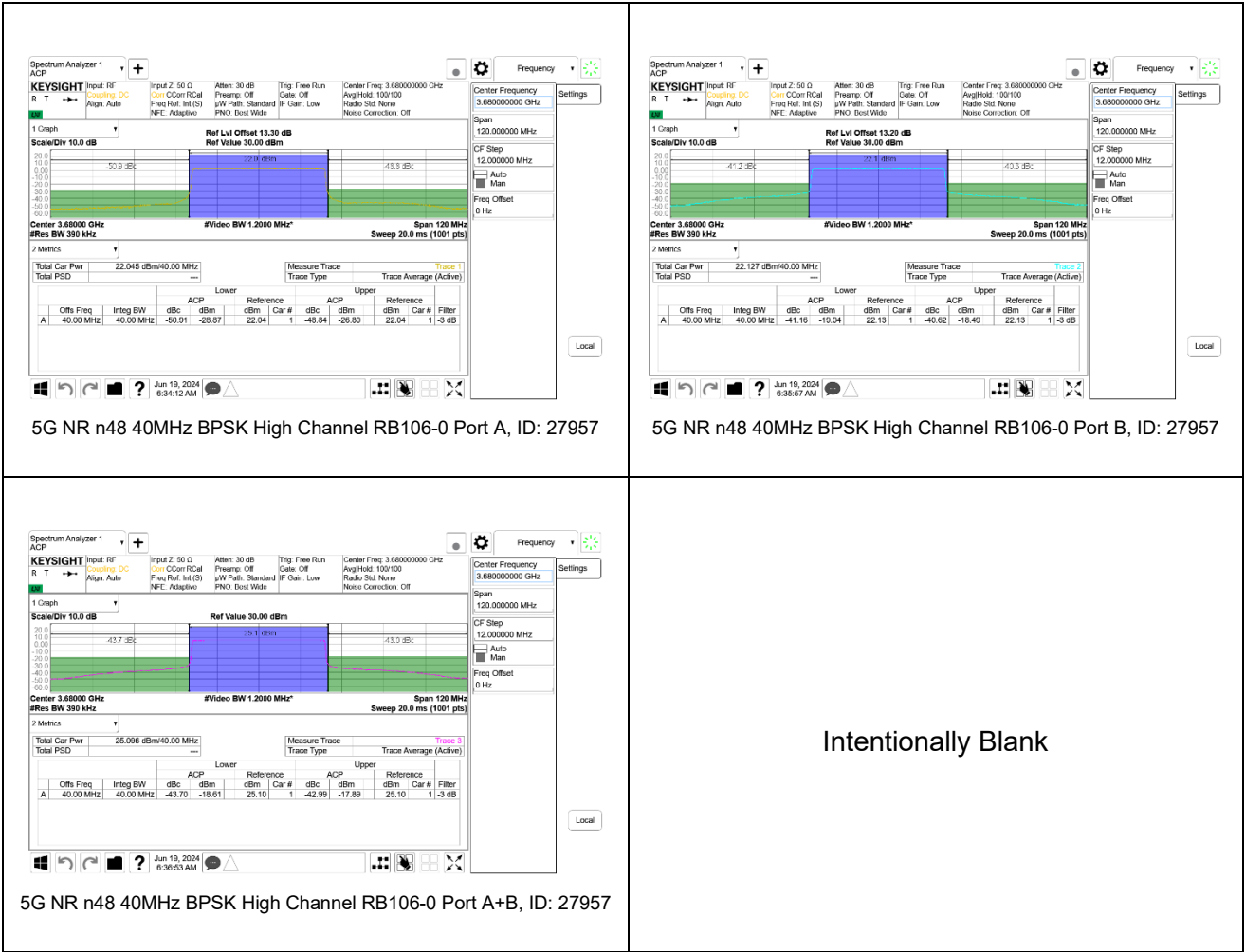








9.3. OUT OF BAND EMISSIONS

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

9.3.1. LTE BAND 48 AND 5G NR n48

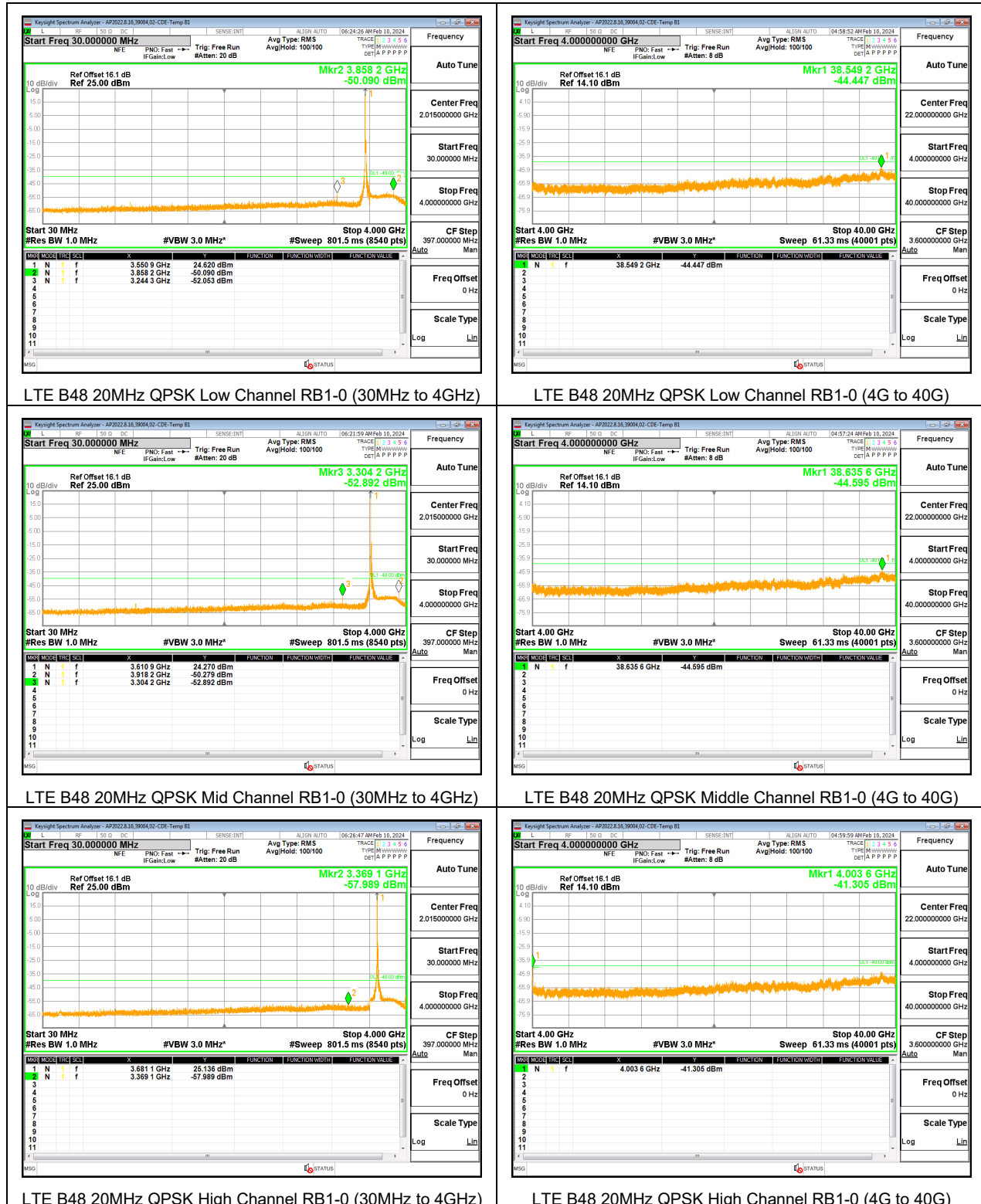
LIMITS

FCC: §96.41

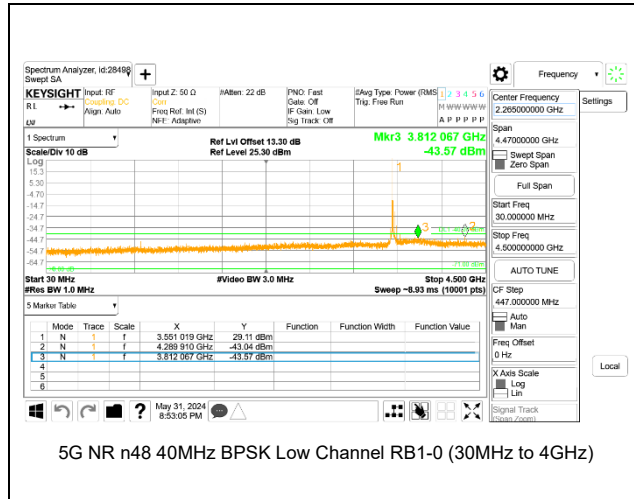
(e) 3.5 GHz Emissions and Interference Limits—

(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.

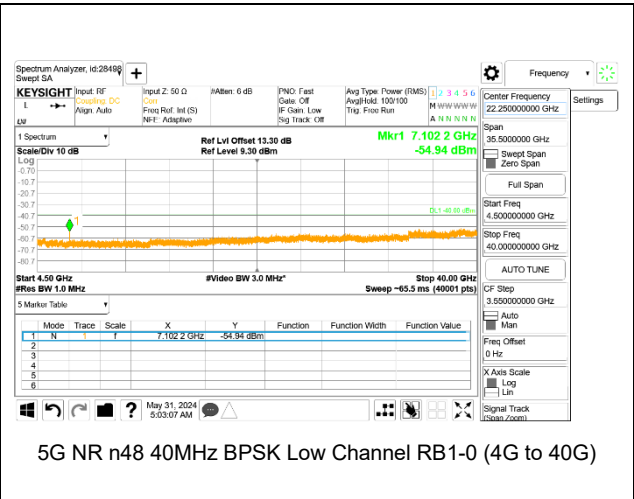
LTE BAND 48



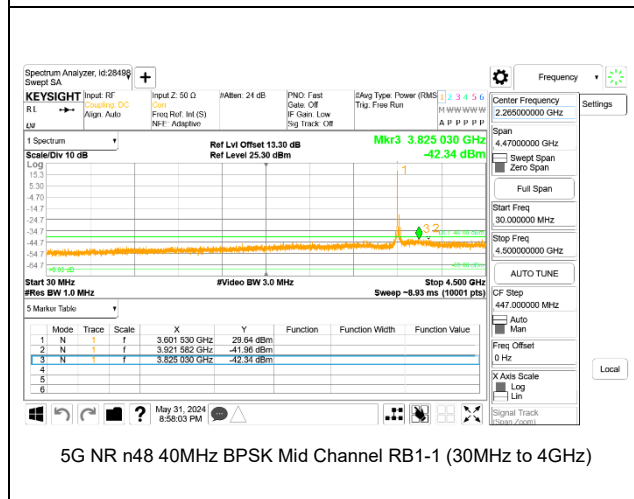
5G NR n48



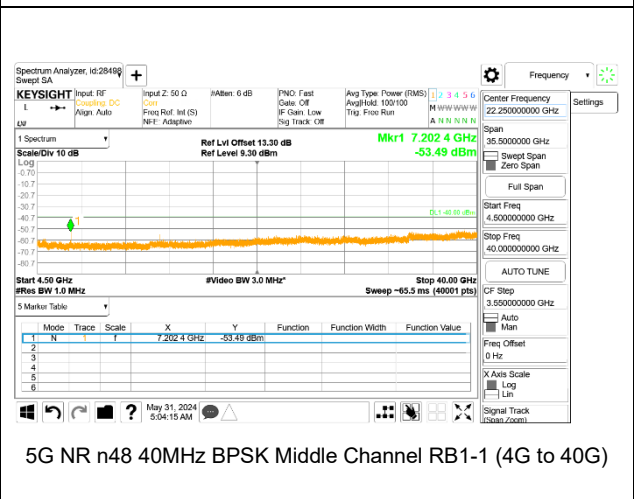
5G NR n48 40MHz BPSK Low Channel RB1-0 (30MHz to 4GHz)



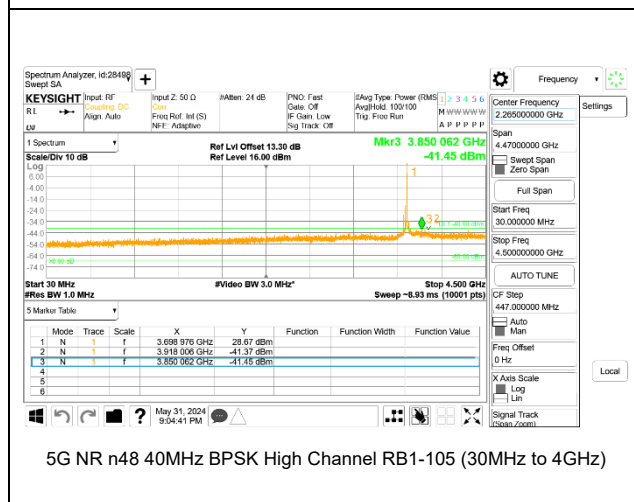
5G NR n48 40MHz BPSK Low Channel RB1-0 (4G to 40G)



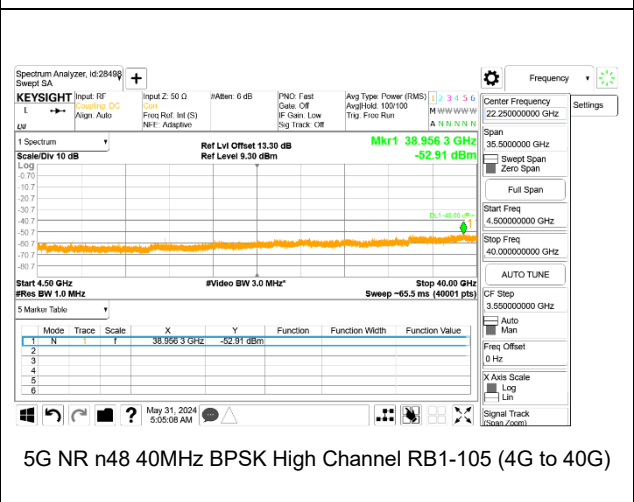
5G NR n48 40MHz BPSK Mid Channel RB1-1 (30MHz to 4GHz)



5G NR n48 40MHz BPSK Middle Channel RB1-1 (4G to 40G)



5G NR n48 40MHz BPSK High Channel RB1-105 (30MHz to 4GHz)



5G NR n48 40MHz BPSK High Channel RB1-105 (4G to 40G)

9.3.2. LTE ULCA BAND 48

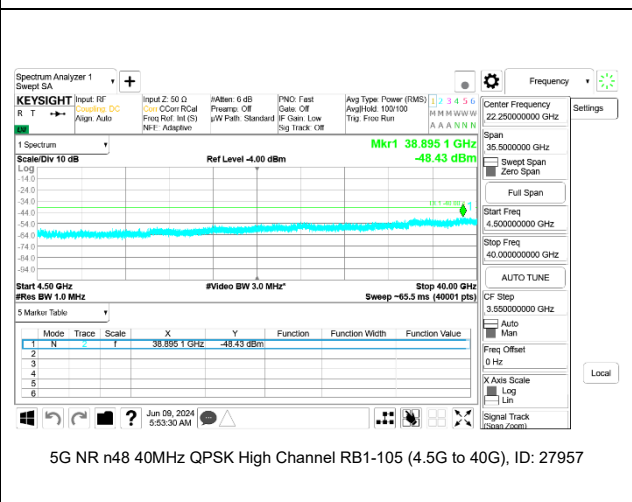
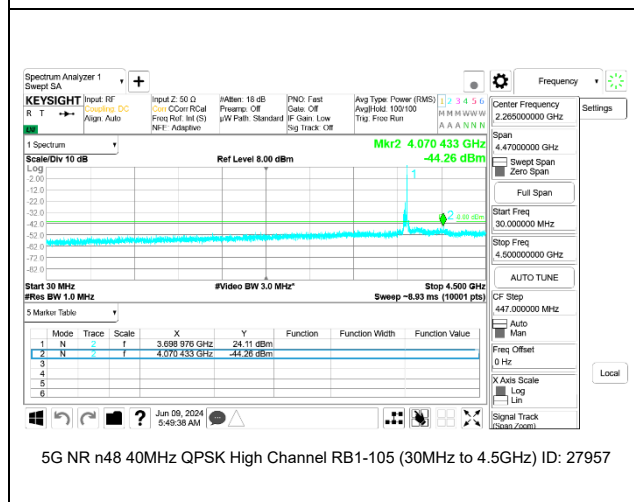
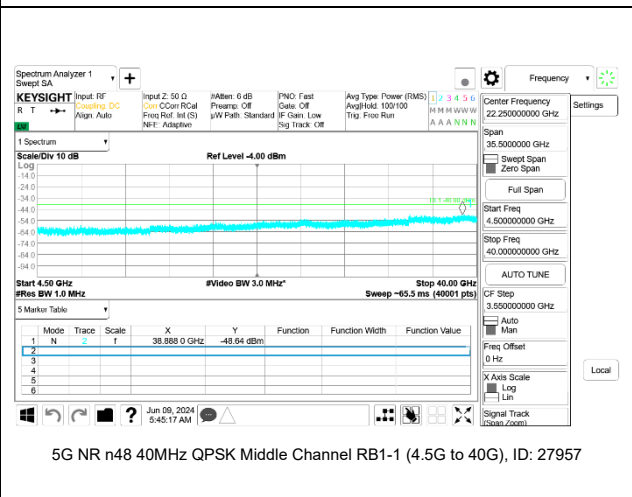
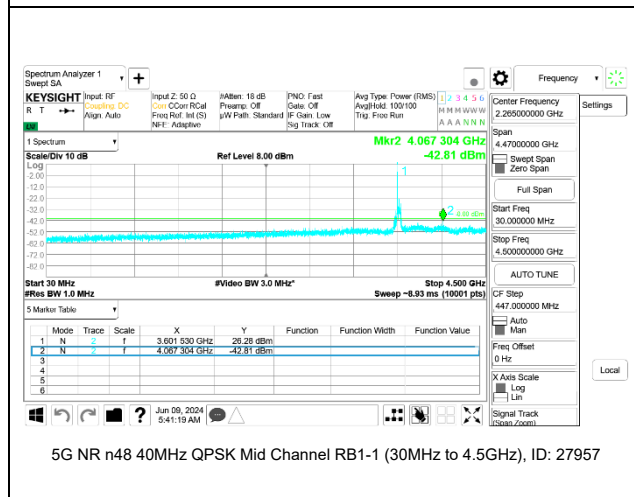
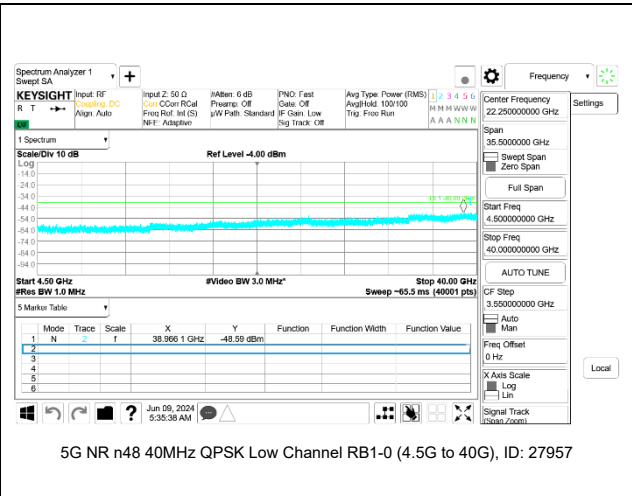
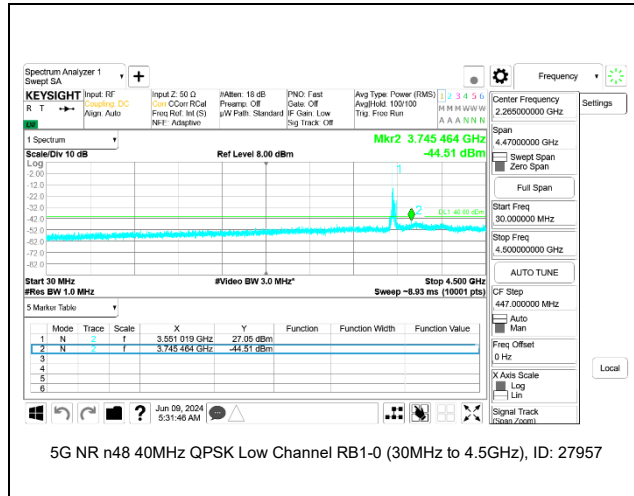


9.3.3. 5G NR n48 MIMO

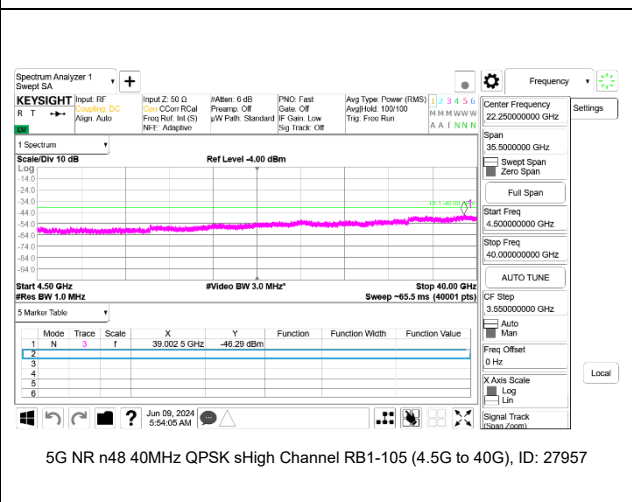
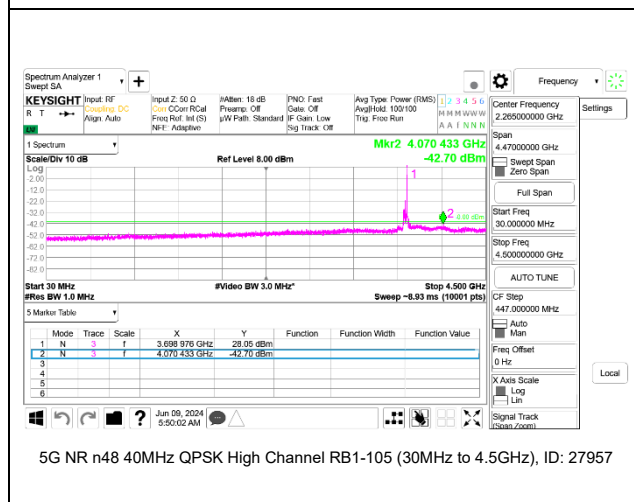
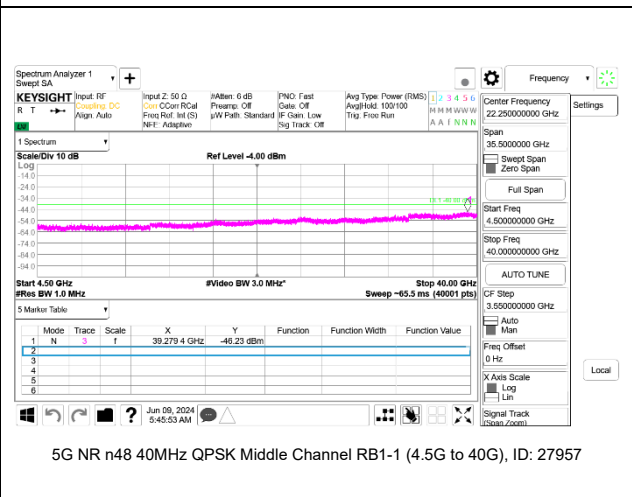
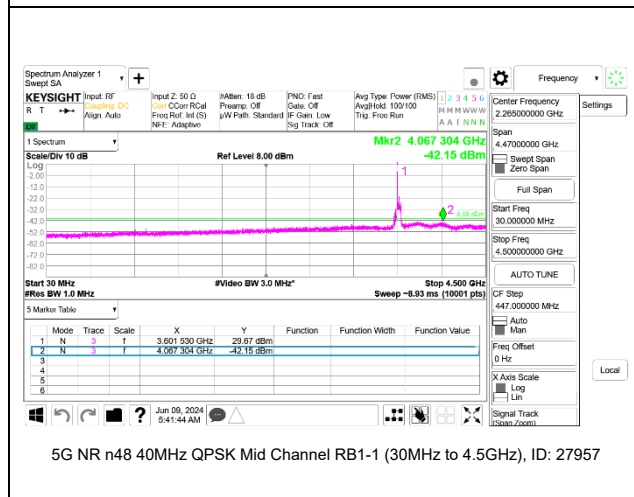
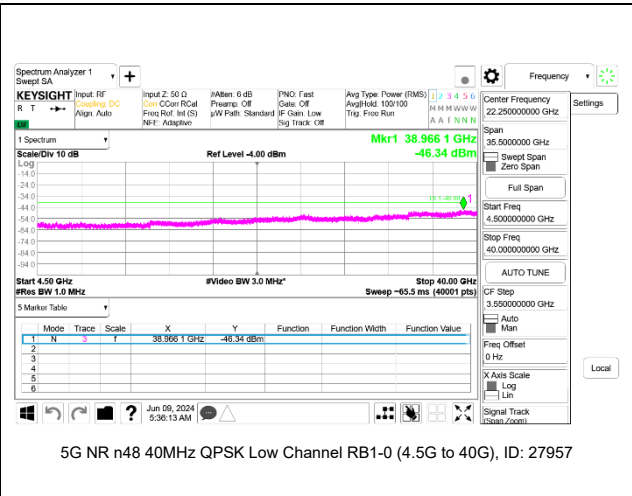
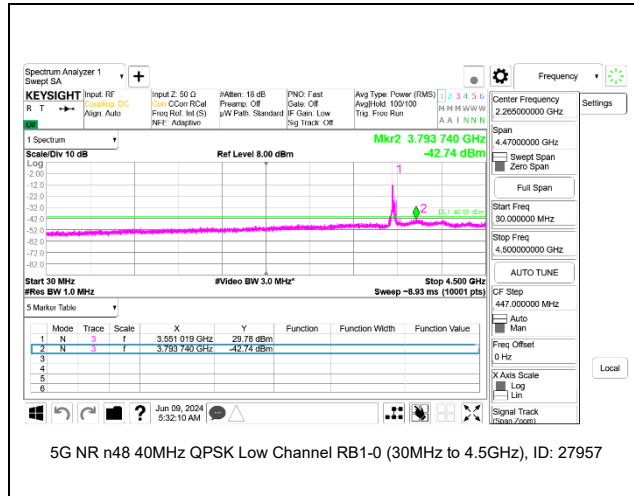
PORT A



PORT B



PORT A+B



9.4. FREQUENCY STABILITY

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

- Temp. = -30°C to $+50^{\circ}\text{C}$
- Voltage = (85% - 115%)

Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.
End Voltage, 3.2VDC.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed 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 $+50^{\circ}\text{C}$ is reached.

Frequency Stability vs Voltage:

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

RESULTS

See the following pages.

9.4.1. LTE BAND 48 AND 5G NR n48

Test Engineer ID:	39004	Test Date:	2024-01-12
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LTE BAND 48 QPSK (20MHz BANDWIDTH)

Band	48	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		3550	3700			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	3550.9282	3699.0053			
Extreme (50°C)		3550.9282	3699.0053	-1.2	0.000	Yes
Extreme (40°C)		3550.9282	3699.0053	-0.4	0.000	Yes
Extreme (30°C)		3550.9282	3699.0053	-1.8	0.000	Yes
Extreme (10°C)		3550.9282	3699.0053	-2.1	-0.001	Yes
Extreme (0°C)		3550.9282	3699.0053	1.0	0.000	Yes
Extreme (-10°C)		3550.9282	3699.0053	-0.5	0.000	Yes
Extreme (-20°C)		3550.9282	3699.0053	-5.3	-0.001	Yes
Extreme (-30°C)		3550.9282	3699.0053	-4.2	-0.001	Yes
20°C	15%	3550.9282	3699.0053	-3.1	-0.001	Yes
	-15%	3550.9282	3699.0053	-2.7	-0.001	Yes
	End Point Voltage	3550.9282	3699.0053	-4.2	-0.001	Yes

5G NR n48 BPSK (40MHz BANDWIDTH)

Band	48	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		3550	3699.98			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)			
Temperature	Voltage				Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	3550.9432	3696.8337			
Extreme (50°C)		3550.9432	3696.8337	3.29	0.001	Yes
Extreme (40°C)		3550.9432	3696.8337	2.82	0.001	Yes
Extreme (30°C)		3550.9432	3696.8337	6.96	0.002	Yes
Extreme (10°C)		3550.9432	3696.8337	5.18	0.001	Yes
Extreme (0°C)		3550.9432	3696.8337	3.67	0.001	Yes
Extreme (-10°C)		3550.9432	3696.8337	3.46	0.001	Yes
Extreme (-20°C)		3550.9432	3696.8337	2.17	0.001	Yes
Extreme (-30°C)		3550.9432	3696.8337	3.53	0.001	Yes
20°C	15%	3550.9432	3696.8337	2.61	0.001	Yes
	-15%	3550.9432	3696.8337	5.05	0.001	Yes
	End Point Voltage	3550.9432	3696.8337	4.71	0.001	Yes

9.4.2. LTE ULCA BAND 48

Test Engineer ID:	39004	Test Date:	2024-01-18
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QPSK (20MHz + 20MHz BANDWIDTH)

Band	48	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		3550	3700			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	3550.9033	3699.1368			
Extreme (50°C)		3550.9033	3699.1368	34.2	0.009	Yes
Extreme (40°C)		3550.9033	3699.1368	33.5	0.009	Yes
Extreme (30°C)		3550.9033	3699.1368	-25.8	-0.007	Yes
Extreme (10°C)		3550.9033	3699.1368	-35.2	-0.010	Yes
Extreme (0°C)		3550.9033	3699.1368	-40.3	-0.011	Yes
Extreme (-10°C)		3550.9033	3699.1368	-47.7	-0.013	Yes
Extreme (-20°C)		3550.9033	3699.1368	-44.0	-0.012	Yes
Extreme (-30°C)		3550.9033	3699.1368	-40.5	-0.011	Yes
20°C	15%	3550.9033	3699.1368	-21.6	-0.006	Yes
	-15%	3550.9033	3699.1368	-26.4	-0.007	Yes
	End Point Voltage	3550.9033	3699.1368	-35.5	-0.010	Yes

9.5. 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 1 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.

9.5.1. LTE BAND 48 AND 5G NR n48

Test Engineer ID:	27342	Test Date:	2024-02-29
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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	40.39	26.62	*6.78	
					16QAM	42.60	25.26	*10.35	
	10MHz		50	0	QPSK	41.72	27.72	*7.01	
					16QAM	38.58	26.12	*5.47	
	15MHz		75	0	QPSK	39.78	27.65	*5.14	
					16QAM	38.17	24.61	*6.57	
	20MHz		100	0	QPSK	38.99	27.68	*4.32	
					16QAM	39.31	25.77	*6.55	
5G NR Band n48	10MHz		24	0	BPSK	32.11	25.37	6.74	
					16QAM	31.19	26.8	4.39	
	15MHz		36	0	BPSK	30.75	26.89	3.86	
					16QAM	31.81	25.31	6.50	
	20MHz		50	0	BPSK	30.88	26.61	4.27	
					16QAM	31.65	25.23	6.42	
	30MHz		75	0	BPSK	30.66	26.20	4.46	
					16QAM	31.50	24.63	6.87	
40MHz	100		0	BPSK	29.44	25.06	4.38		
				16QAM	31.14	23.6	7.54		
Duty Cycle Correction Factor (dB) =			6.99						
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor									

9.5.2. LTE ULCA BAND 48

Test Engineer ID:	39004	Test Date:	2023-12-21
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Band	Bandwidth (MHz)	PCC f (MHz)	SCC1 f (MHz)	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
					Peak	Average	
Band 48 (FCC)	5MHz / 20MHz	3615.8	3627.5	QPSK	32.31	19.77	5.55
				16QAM	32.31	18.78	6.54
	20MHz / 5MHz	3622.5	3634.2	QPSK	32.30	19.76	5.55
				16QAM	32.36	18.78	6.59
	10MHz / 20MHz	3615.6	3630.0	QPSK	34.85	20.00	7.86
				16QAM	32.32	19.78	5.55
	20MHz / 10MHz	3620.1	3634.5	QPSK	32.30	19.76	5.55
				16QAM	32.32	18.79	6.54
	15MHz / 20MHz	3615.3	3632.4	QPSK	32.30	19.76	5.55
				16QAM	32.31	18.77	6.55
	20MHz / 15MHz	3617.6	3634.7	QPSK	32.30	19.78	5.53
				16QAM	32.31	18.79	6.53
	20MHz / 20MHz	3615.1	3634.9	QPSK	32.30	19.78	5.53
				16QAM	32.30	18.78	6.53
Duty Cycle Correction Factor (dB) =			6.99				
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor							

10. RADIATED TEST RESULTS

Radiated measurement using the Field Strength Method

Using the test configuration shown in Figure 6 below, We measure the radiated emissions 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.

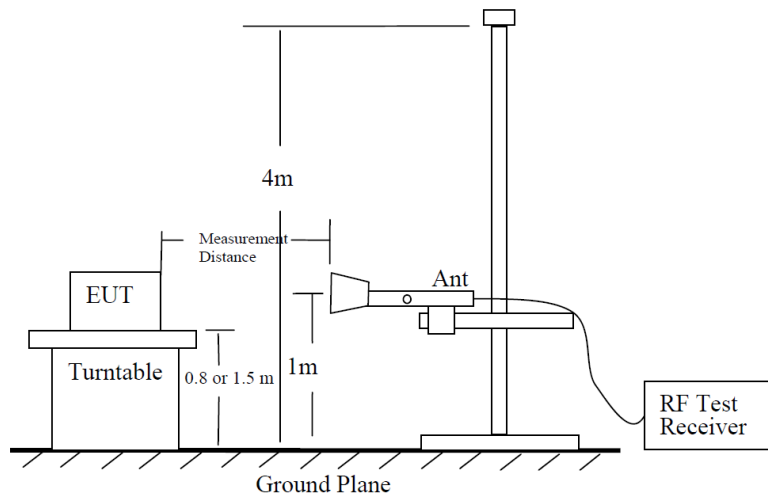


Figure 6 —Test site-up for radiated ERP and/or EIRP measurements

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.

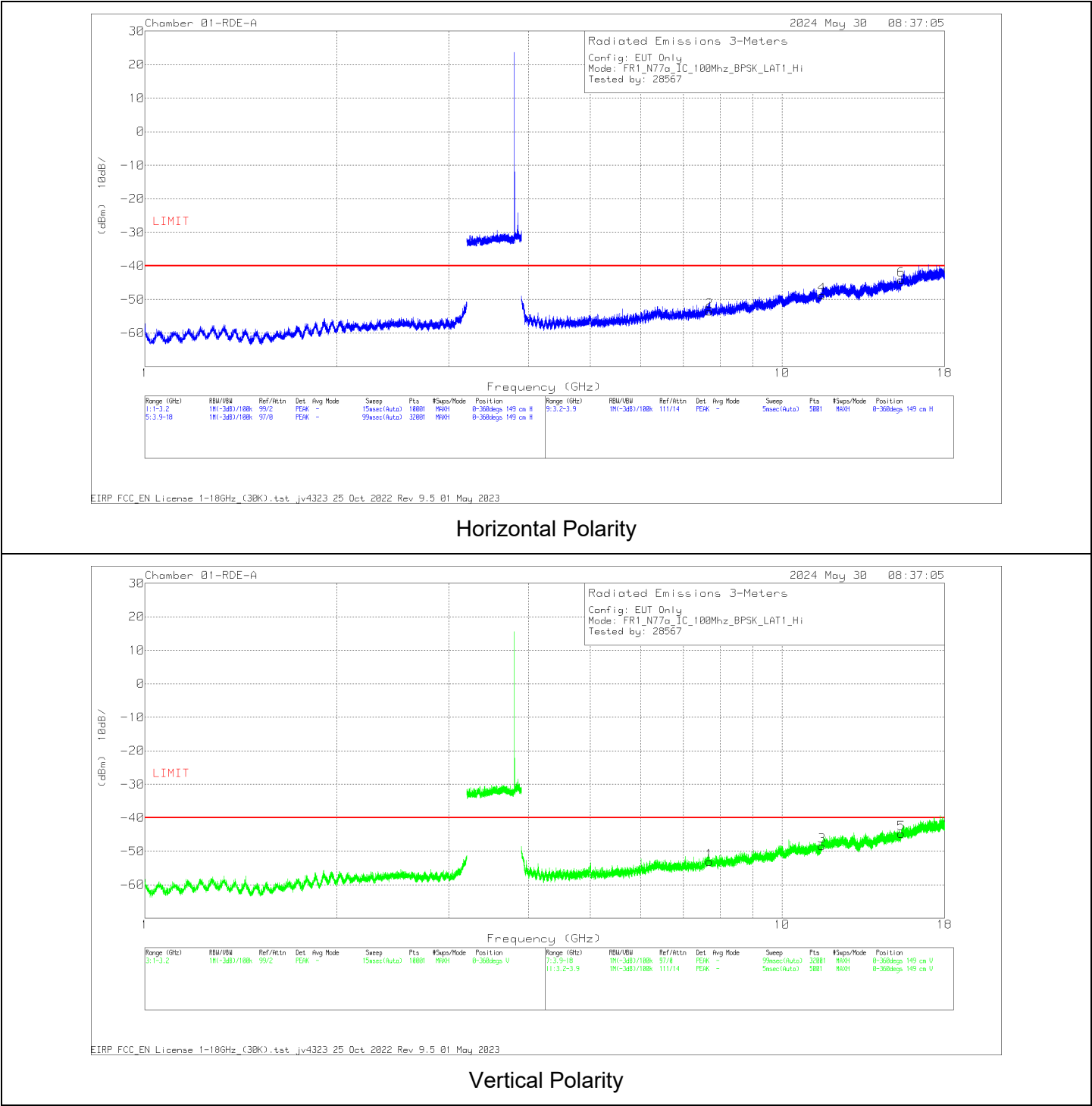
So, from d)

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

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.

Example Plot



Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400- 3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
7.698628	22.57	Pk	35.8	.9	-95.2	-17.60	-53.53	-40	-13.53	H
7.699069	23.05	Pk	35.8	.9	-95.2	-17.61	-53.06	-40	-13.06	V
11.550131	22.26	Pk	38.0	.8	-95.2	-14.60	-48.74	-40	-8.74	H
11.550131	22.57	Pk	38.0	.8	-95.2	-14.60	-48.43	-40	-8.43	V
15.401634	22.49	Pk	40.2	1.3	-95.2	-12.90	-44.11	-40	-4.11	H
15.399872	21.78	Pk	40.2	1.3	-95.2	-12.80	-44.72	-40	-4.72	V

TEST PROCEDURE

KDB 971168 D01 /D02

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

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.

RESULTS

10.1. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 4

10.1.1. LTE BAND 48 AND 5G NR n48

QPSK LTE BAND 48 (20.0MHZ BANDWIDTH)

Project #:	14982436
Date:	6/14/2024
Test Engineer:	28567
Configuration:	EUT Only
Mode	LTE B48 20MHz QPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400- 3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz										
7.120528	17.77	RMS	35.6	.5	-95.2	-18.80	-60.13	-40	-20.13	H
7.120528	18.24	RMS	35.6	.5	-95.2	-18.80	-59.66	-40	-19.66	V
10.680338	16.58	RMS	37.9	.6	-95.2	-15.00	-55.12	-40	-15.12	H
10.680338	16.49	RMS	37.9	.6	-95.2	-15.00	-55.21	-40	-15.21	V
14.240147	17.16	RMS	39.3	.8	-95.2	-13.40	-51.34	-40	-11.34	H
14.240147	17.75	RMS	39.3	.8	-95.2	-13.40	-50.75	-40	-10.75	V
Mid Channel, 3620MHz										
7.240378	17.35	RMS	35.6	.5	-95.2	-18.50	-60.25	-40	-20.25	H
7.240378	17.48	RMS	35.6	.5	-95.2	-18.50	-60.12	-40	-20.12	V
10.860113	16.67	RMS	37.9	.4	-95.2	-14.49	-54.72	-40	-14.72	H
10.860113	16.06	RMS	37.9	.4	-95.2	-14.49	-55.33	-40	-15.33	V
14.480288	16.61	RMS	39.7	.7	-95.2	-13.93	-52.12	-40	-12.12	H
14.480288	16.24	RMS	39.7	.7	-95.2	-13.93	-52.49	-40	-12.49	V
High Channel, 3690MHz										
7.380056	17.74	RMS	35.6	0.7	-95.2	-18.40	-59.56	-40	-19.56	H
7.379175	17.17	RMS	35.6	0.7	-95.2	-18.40	-60.13	-40	-20.13	V
11.070731	16.59	RMS	37.8	0.6	-95.2	-14.57	-54.78	-40	-14.78	H
11.070731	16.79	RMS	37.8	0.6	-95.2	-14.57	-54.58	-40	-14.58	V
14.760966	15.64	RMS	40.0	0.8	-95.2	-13.10	-51.86	-40	-11.86	H
14.760966	15.81	RMS	40.0	0.8	-95.2	-13.10	-51.69	-40	-11.69	V

BPSK 5G NR n48 (40.0MHZ BANDWIDTH)

Project #:	14982436
Date:	6/13/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	5G NR n48 40MHz BPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400- 3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.140356	17.86	RMS	35.6	.6	-95.2	-18.60	-59.74	-40	-19.74	H
7.140356	18.46	RMS	35.6	.6	-95.2	-18.60	-59.14	-40	-19.14	V
10.710300	17.15	RMS	37.9	.5	-95.2	-15.00	-54.65	-40	-14.65	H
10.710300	16.86	RMS	37.9	.5	-95.2	-15.00	-54.94	-40	-14.94	V
14.280684	17.31	RMS	39.4	.7	-95.2	-13.56	-51.35	-40	-11.35	H
14.280684	17.83	RMS	39.4	.7	-95.2	-13.56	-50.83	-40	-10.83	V
Mid Channel, 3620.01MHz										
7.250513	17.76	RMS	35.6	.6	-95.2	-18.30	-59.54	-40	-19.54	H
7.250513	17.90	RMS	35.6	.6	-95.2	-18.30	-59.40	-40	-19.40	V
10.875094	15.99	RMS	37.9	.5	-95.2	-14.70	-55.51	-40	-15.51	H
10.875094	15.70	RMS	37.9	.5	-95.2	-14.70	-55.80	-40	-15.80	V
14.500556	17.02	RMS	39.7	.8	-95.2	-14.00	-51.68	-40	-11.68	H
14.500556	17.66	RMS	39.7	.8	-95.2	-14.00	-51.04	-40	-11.04	V
High Channel, 3679.98MHz										
7.360669	18.28	RMS	35.6	.7	-95.2	-18.20	-58.82	-40	-18.82	H
7.360669	17.70	RMS	35.6	.7	-95.2	-18.20	-59.40	-40	-19.40	V
11.040328	16.42	RMS	37.9	.6	-95.2	-14.37	-54.65	-40	-14.65	H
11.040328	16.95	RMS	37.9	.6	-95.2	-14.37	-54.12	-40	-14.12	V
14.720428	16.39	RMS	40	.9	-95.2	-13.50	-51.41	-40	-11.41	H
14.720428	16.24	RMS	40	.9	-95.2	-13.50	-51.56	-40	-11.56	V

10.1.2. QPSK LTE ULCA BAND 48 (20.0MHZ + 20.0MHZ BANDWIDTH)

Project #:	14982436
Date:	6/16/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	LTE ULCA 48 20+20MHz QPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF 3m (dB/m)	T1792 3400- 3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz + 3579.8MHz										
7.120088	18.51	RMS	35.6	0.5	-95.2	-18.80	-59.39	-40	-19.39	H
7.118766	18.73	RMS	35.6	0.5	-95.2	-18.90	-59.27	-40	-19.27	V
10.679897	17.39	RMS	37.9	0.6	-95.2	-15.00	-54.31	-40	-14.31	H
10.679897	17.17	RMS	37.9	0.6	-95.2	-15.00	-54.53	-40	-14.53	V
14.240147	16.98	RMS	39.3	0.8	-95.2	-13.40	-51.52	-40	-11.52	H
14.239706	16.68	RMS	39.3	0.8	-95.2	-13.40	-51.82	-40	-11.82	V
Mid Channel, 3615.1MHz + 3634.9MHz										
7.240378	17.28	RMS	35.6	0.5	-95.2	-18.50	-60.32	-40	-20.32	H
7.238616	18.27	RMS	35.6	0.5	-95.2	-18.54	-59.37	-40	-19.37	V
10.859452	16.04	RMS	37.9	0.4	-95.2	-14.50	-55.36	-40	-15.36	H
10.860113	16.49	RMS	37.9	0.4	-95.2	-14.49	-54.90	-40	-14.90	V
10.859452	16.04	RMS	37.9	0.4	-95.2	-14.50	-55.36	-40	-15.36	H
14.480728	16.42	RMS	39.7	0.7	-95.2	-13.97	-52.35	-40	-12.35	V
High Channel, 3670.2MHz + 3690MHz										
7.360228	18.23	RMS	35.6	.7	-95.2	-18.20	-58.87	-40	-18.87	H
7.360228	17.05	RMS	35.6	.7	-95.2	-18.20	-60.05	-40	-20.05	V
11.040769	16.41	RMS	37.9	.6	-95.2	-14.32	-54.61	-40	-14.61	H
11.040769	16.72	RMS	37.9	.6	-95.2	-14.32	-54.30	-40	-14.30	V
14.720869	16.68	RMS	40	.9	-95.2	-13.50	-51.12	-40	-11.12	H
14.720869	16.38	RMS	40	.9	-95.2	-13.50	-51.42	-40	-11.42	V

10.2. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 7

10.2.1. LTE BAND 48 AND 5G NR n48

QPSK LTE BAND 48 (20.0MHZ BANDWIDTH)

Project #:	14982436
Date:	6/13/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	LTE B48 20MHz QPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400- 3800MHz BRF	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz										
7.120528	18.17	RMS	35.6	0.5	-95.2	-18.80	-59.73	-40	-19.73	H
7.120528	17.88	RMS	35.6	0.5	-95.2	-18.80	-60.02	-40	-20.02	V
10.680778	16.68	RMS	37.9	0.6	-95.2	-15.00	-55.02	-40	-15.02	H
10.680778	17.34	RMS	37.9	0.6	-95.2	-15.00	-54.36	-40	-14.36	V
14.240588	16.57	RMS	39.3	0.8	-95.2	-13.40	-51.93	-40	-11.93	H
14.240588	16.99	RMS	39.3	0.8	-95.2	-13.40	-51.51	-40	-11.51	V
Mid Channel, 3625MHz										
7.250072	17.79	RMS	35.6	.6	-95.2	-18.30	-59.51	-40	-19.51	H
7.250072	17.97	RMS	35.6	.6	-95.2	-18.30	-59.33	-40	-19.33	V
10.875094	15.80	RMS	37.9	.5	-95.2	-14.70	-55.07	-40	-15.70	H
10.875094	16.84	RMS	37.9	.5	-95.2	-14.70	-54.66	-40	-14.66	V
14.500116	17.28	RMS	39.7	.8	-95.2	-14.00	-51.42	-40	-11.42	H
14.500116	17.53	RMS	39.7	.8	-95.2	-14.00	-51.17	-40	-11.17	V
High Channel, 3690MHz										
7.380277	17.39	RMS	35.6	.7	-95.2	-18.40	-59.91	-40	-19.91	H
7.380497	18.35	RMS	35.6	.7	-95.2	-18.40	-58.95	-40	-18.95	V
11.070291	16.56	RMS	37.8	.6	-95.2	-14.53	-54.77	-40	-14.77	H
11.070291	17.26	RMS	37.8	.6	-95.2	-14.53	-54.07	-40	-14.07	V
14.760525	16.28	RMS	40.0	.8	-95.2	-13.10	-51.22	-40	-11.22	H
14.760525	15.98	RMS	40.0	.8	-95.2	-13.10	-51.52	-40	-11.52	V

BPSK 5G NR n48 (40.0MHZ BANDWIDTH)

Project #:	14982436
Date:	6/13/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	5G NR n48 FCC 40MHz BPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400- 3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.140797	17.93	RMS	35.6	0.6	-95.2	-18.60	-59.67	-40	-19.67	H
7.140797	18.23	RMS	35.6	0.6	-95.2	-18.60	-59.37	-40	-19.37	V
10.710741	17.55	RMS	37.9	0.5	-95.2	-15.00	-54.25	-40	-14.25	H
10.710741	16.82	RMS	37.9	0.5	-95.2	-15.00	-54.98	-40	-14.98	V
14.280684	17.11	RMS	39.4	0.7	-95.2	-13.56	-51.55	-40	-11.55	H
14.280684	17.69	RMS	39.4	0.7	-95.2	-13.56	-50.97	-40	-10.97	V
Mid Channel, 3620.01MHz										
7.250513	17.67	RMS	35.6	.6	-95.2	-18.30	-59.63	-40	-19.63	H
7.250513	17.12	RMS	35.6	.6	-95.2	-18.30	-60.18	-40	-20.18	V
10.875534	17.19	RMS	37.9	.5	-95.2	-14.70	-54.31	-40	-14.31	H
10.875534	16.19	RMS	37.9	.5	-95.2	-14.70	-55.31	-40	-15.31	V
14.500997	17.95	RMS	39.7	.8	-95.2	-14.00	-50.75	-40	-10.75	H
14.500997	17.41	RMS	39.7	.8	-95.2	-14.00	-51.29	-40	-11.29	V
High Channel, 3679.98MHz										
7.360669	17.44	RMS	35.6	.7	-95.2	-18.20	-59.66	-40	-19.66	H
7.360669	18.82	RMS	35.6	.7	-95.2	-18.20	-58.28	-40	-18.28	V
11.040328	16.97	RMS	37.9	.6	-95.2	-14.37	-54.10	-40	-14.10	H
11.040328	16.69	RMS	37.9	.6	-95.2	-14.37	-54.38	-40	-14.38	V
14.720428	16.72	RMS	40.0	.9	-95.2	-13.50	-51.08	-40	-11.08	H
14.720428	16.30	RMS	40.0	.9	-95.2	-13.50	-51.50	-40	-11.50	V

10.2.2. QPSK LTE ULCA BAND 48 (20.0MHZ + 20.0MHZ BANDWIDTH)

Project #:	14982436
Date:	3/25/22024
Test Engineer:	32545
Configuration:	EUT Only
Mode	LTE ULCA 48 20+20MHz QPSK
Chamber #:	02-RDE-E

Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz + 3579.8MHz									
7.139119	40.67	Av	35.6	-95.2	-44.21	-63.14	-40	-23.14	H
7.137736	40.89	Av	35.7	-95.2	-44.18	-62.79	-40	-22.79	V
10.706835	44.99	Av	37.6	-95.2	-42.93	-55.54	-40	-15.54	H
10.707101	45.39	Av	37.6	-95.2	-42.93	-55.14	-40	-15.14	V
14.279949	40.8	Av	39.1	-95.2	-42.58	-57.88	-40	-17.88	H
14.276940	40.43	Av	39.1	-95.2	-42.48	-58.15	-40	-18.15	V
Mid Channel, 3615.1MHz + 3634.9MHz									
7.249803	41.21	Av	35.6	-95.2	-44.93	-63.32	-40	-23.32	H
7.250791	41.21	Av	35.6	-95.2	-44.94	-63.33	-40	-23.33	V
10.872237	44.54	Av	37.8	-95.2	-42.52	-55.38	-40	-15.38	H
10.872437	40.71	Av	37.8	-95.2	-42.53	-59.22	-40	-19.22	V
14.498485	41.06	Av	39.3	-95.2	-42.78	-57.62	-40	-17.62	H
14.500443	40.93	Av	39.3	-95.2	-42.85	-57.82	-40	-17.82	V
High Channel, 3670.2MHz + 3690MHz									
7.357725	41.73	Av	35.6	-95.2	-45.66	-63.53	-40	-23.53	H
7.360002	41.78	Av	35.6	-95.2	-45.67	-63.49	-40	-23.49	V
11.037483	45.03	Av	37.9	-95.2	-41.85	-54.12	-40	-14.12	H
11.037174	46.02	Av	37.9	-95.2	-41.84	-53.12	-40	-13.12	V
14.71516	40.6	Av	39.6	-95.2	-42.68	-57.68	-40	-17.68	H
14.716362	43.35	Av	39.6	-95.2	-42.68	-54.93	-40	-14.93	V

10.3. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 8

10.3.1. LTE BAND 48 AND 5G NR n48

QPSK LTE BAND 48 (20.0MHZ BANDWIDTH)

Project #:	14982436
Date:	6/13/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	LTE B48 20MHz QPSK
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400- 3800MHz BRF	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz										
7.120088	18.09	RMS	35.6	.5	-95.2	-18.80	-59.81	-40	-19.81	H
7.120088	18.31	RMS	35.6	.5	-95.2	-18.80	-59.59	-40	-19.59	V
10.680338	16.53	RMS	37.9	.6	-95.2	-15.00	-55.17	-40	-15.17	H
10.680338	17.54	RMS	37.9	.6	-95.2	-15.00	-54.16	-40	-14.16	V
14.240147	16.88	RMS	39.3	.8	-95.2	-13.40	-51.62	-40	-11.62	H
14.240147	16.70	RMS	39.3	.8	-95.2	-13.40	-51.80	-40	-11.80	V
Mid Channel, 3625MHz										
7.250513	17.82	RMS	35.6	.6	-95.2	-18.30	-59.48	-40	-19.48	H
7.250513	17.54	RMS	35.6	.6	-95.2	-18.30	-59.76	-40	-19.76	V
10.875534	16.72	RMS	37.9	.5	-95.2	-14.70	-54.78	-40	-14.78	H
10.875534	15.84	RMS	37.9	.5	-95.2	-14.70	-55.66	-40	-15.66	V
14.500556	17.17	RMS	39.7	.8	-95.2	-14.00	-51.53	-40	-11.53	H
14.500556	17.50	RMS	39.7	.8	-95.2	-14.00	-51.20	-40	-11.20	V
High Channel, 3690MHz										
7.380497	18.14	RMS	35.6	.7	-95.2	-18.40	-59.16	-40	-19.16	H
7.380497	18.06	RMS	35.6	.7	-95.2	-18.40	-59.24	-40	-19.24	V
11.070511	16.99	RMS	37.8	.6	-95.2	-14.55	-54.36	-40	-14.36	H
11.070731	17.17	RMS	37.8	.6	-95.2	-14.57	-54.20	-40	-14.20	V
14.760525	16.39	RMS	40.0	.8	-95.2	-13.10	-51.11	-40	-11.11	H
14.760525	15.85	RMS	40.0	.8	-95.2	-13.10	-51.65	-40	-11.65	V

BPSK 5G NR n48 (40.0MHZ BANDWIDTH)

Project #:	14982436
Date:	6/13/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	5G NR n48 40MHz BPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400- 3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.139916	18.18	RMS	35.6	.6	-95.2	-18.60	-59.42	-40	-19.42	H
7.140356	18.25	RMS	35.6	.6	-95.2	-18.60	-59.35	-40	-19.35	V
10.710300	16.63	RMS	37.9	.5	-95.2	-15.00	-55.17	-40	-15.17	H
10.710300	16.93	RMS	37.9	.5	-95.2	-15.00	-54.87	-40	-14.87	V
14.280244	17.12	RMS	39.4	.7	-95.2	-13.65	-51.63	-40	-11.63	H
14.280244	17.56	RMS	39.4	.7	-95.2	-13.65	-51.19	-40	-11.19	V
Mid Channel, 3620.01MHz										
7.250072	17.73	RMS	35.6	.6	-95.2	-18.30	-59.57	-40	-19.57	H
7.250513	18.31	RMS	35.6	.6	-95.2	-18.30	-58.99	-40	-18.99	V
10.875094	16.23	RMS	37.9	.5	-95.2	-14.70	-55.27	-40	-15.27	H
10.875094	15.82	RMS	37.9	.5	-95.2	-14.70	-55.68	-40	-15.68	V
14.500556	17.62	RMS	39.7	.8	-95.2	-14.00	-51.08	-40	-11.08	H
14.500997	17.24	RMS	39.7	.8	-95.2	-14.00	-51.46	-40	-11.46	V
High Channel, 3679.98MHz										
7.360669	17.82	RMS	35.6	.7	-95.2	-18.20	-59.28	-40	-19.28	H
7.360669	17.67	RMS	35.6	.7	-95.2	-18.20	-59.43	-40	-19.43	V
11.040328	16.67	RMS	37.9	.6	-95.2	-14.37	-54.40	-40	-14.40	H
11.040328	17.08	RMS	37.9	.6	-95.2	-14.37	-53.99	-40	-13.99	V
14.720428	16.52	RMS	40.0	.9	-95.2	-13.50	-51.28	-40	-11.28	H
14.720428	16.20	RMS	40.0	.9	-95.2	-13.50	-51.60	-40	-11.60	V

10.3.2. QPSK LTECA BAND 48 (20.0MHZ + 20.0MHZ BANDWIDTH)

Project #:	14982436
Date:	6/15/2024
Test Engineer:	28567
Configuration:	EUT Only
Mode	LTE ULCA 48 20+20MHz QPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF 3m (dB/m)	T1792 3400- 3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz + 3579.8MHz										
7.120088	18.55	RMS	35.6	.5	-95.2	-18.80	-59.35	-40	-19.35	H
7.120088	18.38	RMS	35.6	.5	-95.2	-18.80	-59.52	-40	-19.52	V
10.680338	17.18	RMS	37.9	.6	-95.2	-15.00	-54.52	-40	-14.52	H
10.680338	16.58	RMS	37.9	.6	-95.2	-15.00	-55.12	-40	-15.12	V
14.240588	17.13	RMS	39.3	.8	-95.2	-13.40	-51.37	-40	-11.37	H
14.240588	16.97	RMS	39.3	.8	-95.2	-13.40	-51.53	-40	-11.53	V
Mid Channel, 3615.1MHz + 3634.9MHz										
7.250513	17.34	RMS	35.6	.6	-95.2	-18.30	-59.96	-40	-19.96	H
7.250513	17.36	RMS	35.6	.6	-95.2	-18.30	-59.94	-40	-19.94	V
10.875094	15.76	RMS	37.9	.5	-95.2	-14.70	-55.74	-40	-15.74	H
10.875094	16.47	RMS	37.9	.5	-95.2	-14.70	-55.03	-40	-15.03	V
14.500116	16.89	RMS	39.7	.8	-95.2	-14.00	-51.81	-40	-11.81	H
14.500116	16.73	RMS	39.7	.8	-95.2	-14.00	-51.97	-40	-11.97	V
High Channel, 3670.2MHz + 3690MHz										
7.360228	17.99	RMS	35.6	.7	-95.2	-18.20	-59.11	-40	-19.11	H
7.360228	17.54	RMS	35.6	.7	-95.2	-18.20	-59.56	-40	-19.56	V
11.040328	16.16	RMS	37.9	.6	-95.2	-14.37	-54.91	-40	-14.91	H
11.040328	15.93	RMS	37.9	.6	-95.2	-14.37	-55.14	-40	-15.14	V
14.720428	16.40	RMS	40.0	.9	-95.2	-13.50	-51.40	-40	-11.40	H
14.720428	15.97	RMS	40.0	.9	-95.2	-13.50	-51.83	-40	-11.83	V

10.4. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 9

10.4.1. LTE BAND 48 AND 5G NR n48

QPSK LTE BAND 48 (20.0MHZ BANDWIDTH)

Project #:	14982436
Date:	6/13/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	LTE B48 20MHz QPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400- 3800MHz BRF	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz										
7.120088	17.98	RMS	35.6	.5	-95.2	-18.80	-59.92	-40	-19.92	H
7.120088	18.09	RMS	35.6	.5	-95.2	-18.80	-59.81	-40	-19.81	V
10.680778	17.54	RMS	37.9	.6	-95.2	-15.00	-54.16	-40	-14.16	H
10.680778	17.11	RMS	37.9	.6	-95.2	-15.00	-54.59	-40	-14.59	V
14.240588	17.33	RMS	39.3	.8	-95.2	-13.40	-51.17	-40	-11.17	H
14.240588	18.20	RMS	39.3	.8	-95.2	-13.40	-50.30	-40	-10.30	V
Mid Channel, 3625MHz										
7.250072	17.76	RMS	35.6	.6	-95.2	-18.30	-59.54	-40	-19.54	H
7.250072	17.24	RMS	35.6	.6	-95.2	-18.30	-60.06	-40	-20.06	V
10.875094	16.16	RMS	37.9	.5	-95.2	-14.70	-55.34	-40	-15.34	H
10.875094	15.72	RMS	37.9	.5	-95.2	-14.70	-55.78	-40	-15.78	V
14.500556	16.74	RMS	39.7	.8	-95.2	-14.00	-51.96	-40	-11.96	H
14.500556	16.70	RMS	39.7	.8	-95.2	-14.00	-52.00	-40	-12.00	V
High Channel, 3690MHz										
7.380497	17.66	RMS	35.6	.7	-95.2	-18.40	-59.64	-40	-19.64	H
7.380497	17.28	RMS	35.6	.7	-95.2	-18.40	-60.02	-40	-20.02	V
11.070291	16.07	RMS	37.8	.6	-95.2	-14.53	-55.26	-40	-15.26	H
11.070291	16.70	RMS	37.8	.6	-95.2	-14.53	-54.63	-40	-14.63	V
14.760084	16.28	RMS	40.0	.8	-95.2	-13.10	-51.22	-40	-11.22	H
14.760084	16.08	RMS	40.0	.8	-95.2	-13.10	-51.42	-40	-11.42	V

BPSK 5G NR n48 (40.0MHZ BANDWIDTH)

Project #:	14982436
Date:	6/13/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	5G NR n48 40MHz BPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400- 3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.140356	17.88	RMS	35.6	.6	-95.2	-18.6	-59.72	-40	-19.72	H
7.140356	18.28	RMS	35.6	.6	-95.2	-18.6	-59.32	-40	-19.32	V
10.7103	17.32	RMS	37.9	.5	-95.2	-15	-54.48	-40	-14.48	H
10.7103	17.02	RMS	37.9	.5	-95.2	-15	-54.78	-40	-14.78	V
14.280244	17.89	RMS	39.4	.7	-95.2	-13.65	-50.86	-40	-10.86	H
14.280244	17.72	RMS	39.4	.7	-95.2	-13.65	-51.03	-40	-11.03	V
Mid Channel, 3620.01MHz										
7.250513	18.16	RMS	35.6	.6	-95.2	-18.30	-59.14	-40	-19.14	H
7.250513	17.80	RMS	35.6	.6	-95.2	-18.30	-59.50	-40	-19.50	V
10.875094	15.93	RMS	37.9	.5	-95.2	-14.70	-55.57	-40	-15.57	H
10.875094	16.49	RMS	37.9	.5	-95.2	-14.70	-55.01	-40	-15.01	V
14.500116	17.28	RMS	39.7	.8	-95.2	-14.00	-51.42	-40	-11.42	H
14.500116	16.81	RMS	39.7	.8	-95.2	-14.00	-51.89	-40	-11.89	V
High Channel, 3679.98MHz										
7.360669	17.61	RMS	35.6	.7	-95.2	-18.20	-59.49	-40	-19.49	H
7.360228	17.84	RMS	35.6	.7	-95.2	-18.20	-59.26	-40	-19.26	V
11.040328	16.51	RMS	37.9	.6	-95.2	-14.37	-54.56	-40	-14.56	H
11.040328	17.20	RMS	37.9	.6	-95.2	-14.37	-53.87	-40	-13.87	V
14.720869	16.92	RMS	40.0	.9	-95.2	-13.50	-50.88	-40	-10.88	H
14.720869	16.19	RMS	40.0	.9	-95.2	-13.50	-51.61	-40	-11.61	V

10.4.2. QPSK LTE ULCA BAND 48 (20.0MHZ + 20.0MHZ BANDWIDTH)

Project #:	14982436
Date:	6/15/2024
Test Engineer:	28567
Configuration:	EUT Only
Mode	LTE ULCA 48 20+20MHz QPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF 3m (dB/m)	T1792 3400- 3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz + 3579.8MHz										
7.120528	18.67	RMS	35.6	.5	-95.2	-18.80	-59.23	-40	-19.23	H
7.119647	18.47	RMS	35.6	.5	-95.2	-18.84	-59.47	-40	-19.47	V
10.676813	16.90	RMS	37.9	.6	-95.2	-15.00	-54.80	-40	-14.80	H
10.678575	16.71	RMS	37.9	.6	-95.2	-15.00	-54.99	-40	-14.99	V
14.480288	16.87	RMS	39.7	.7	-95.2	-13.93	-51.86	-40	-11.86	H
14.480288	17.25	RMS	39.7	.7	-95.2	-13.93	-51.48	-40	-11.48	V
Mid Channel, 3615.1MHz + 3634.9MHz										
7.240819	18.67	RMS	35.6	.5	-95.2	-18.50	-58.93	-40	-18.93	H
7.240378	18.33	RMS	35.6	.5	-95.2	-18.50	-59.27	-40	-19.27	V
10.859672	16.10	RMS	37.9	.4	-95.2	-14.50	-55.30	-40	-15.30	H
10.860553	15.89	RMS	37.9	.4	-95.2	-14.44	-55.45	-40	-15.45	V
14.480288	17.21	RMS	39.7	.7	-95.2	-13.93	-51.52	-40	-11.52	H
14.478525	17.38	RMS	39.7	.7	-95.2	-14.00	-51.42	-40	-11.42	V
High Channel, 3670.2MHz + 3690MHz										
7.362431	17.91	RMS	35.6	.7	-95.2	-18.20	-59.19	-40	-19.19	H
7.362431	17.07	RMS	35.6	.7	-95.2	-18.20	-60.03	-40	-20.03	V
11.040328	15.80	RMS	37.9	.6	-95.2	-14.37	-55.27	-40	-15.27	H
11.040328	16.17	RMS	37.9	.6	-95.2	-14.37	-54.90	-40	-14.90	V
14.720428	16.66	RMS	40.0	.9	-95.2	-13.50	-51.14	-40	-11.14	H
14.720428	16.28	RMS	40.0	.9	-95.2	-13.50	-51.52	-40	-11.52	V

10.5. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 7+8

10.5.1. 5G NR n48 MIMO

Project #:	14982436
Date:	2024-07-02
Test Engineer:	32145
Configuration:	EUT Only
Mode	5G NR n48 40MHz QPSK MIMO
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400- 3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.100259	24.64	RMS	35.6	.5	-95.2	-27.10	-61.56	-40	-21.56	V
7.122731	24.58	RMS	35.6	.5	-95.2	-27.17	-61.69	-40	-21.69	H
10.839403	23.21	RMS	37.7	.6	-95.2	-24.10	-57.79	-40	-17.79	H
10.868484	22.86	RMS	37.7	.4	-95.2	-24.05	-58.29	-40	-18.29	V
14.171850	20.04	RMS	39.0	.7	-95.2	-20.09	-55.55	-40	-15.55	V
14.203134	20.59	RMS	39.0	.7	-95.2	-20.11	-55.02	-40	-15.02	H
Mid Channel, 3620.01MHz										
7.270781	24.35	RMS	35.5	.5	-95.2	-26.70	-61.55	-40	-21.55	V
7.272544	24.60	RMS	35.5	.5	-95.2	-26.65	-61.25	-40	-21.25	H
10.786528	22.58	RMS	37.7	.6	-95.2	-23.95	-58.27	-40	-18.27	V
10.84425	23.14	RMS	37.7	.5	-95.2	-24.10	-57.96	-40	-17.96	H
14.549906	20.12	RMS	39.3	.8	-95.2	-19.80	-54.78	-40	-14.78	V
14.589563	19.85	RMS	39.3	.9	-95.2	-19.90	-55.05	-40	-15.05	H
High Channel, 3679.98MHz										
7.379175	24.28	RMS	35.5	.7	-95.2	-27.07	-61.79	-40	-21.79	H
7.395919	24.15	RMS	35.5	.6	-95.2	-26.90	-61.85	-40	-21.85	V
11.050463	21.86	RMS	37.8	.6	-95.2	-23.50	-58.44	-40	-18.44	V
11.079103	21.97	RMS	37.8	.7	-95.2	-23.40	-58.13	-40	-18.13	H
14.715581	19.62	RMS	39.4	.9	-95.2	-19.76	-55.04	-40	-15.04	H
14.743341	19.70	RMS	39.4	.8	-95.2	-19.90	-55.20	-40	-15.20	V

10.6. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 7+4

10.6.1. 5G NR n48 MIMO

Project #:	14982436
Date:	2024-07-02
Test Engineer:	45258
Configuration:	EUT Only
Mode	5G NR n48 40MHz QPSK MIMO
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400-3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.140356	18.40	RMS	35.6	.6	-95.2	-18.60	-59.20	-40	-19.20	H
7.140356	19.14	RMS	35.6	.6	-95.2	-18.60	-58.46	-40	-18.46	V
10.710741	17.35	RMS	37.9	.5	-95.2	-15.00	-54.45	-40	-14.45	H
10.710741	17.23	RMS	37.9	.5	-95.2	-15.00	-54.57	-40	-14.57	V
14.280244	17.77	RMS	39.4	.7	-95.2	-13.65	-50.98	-40	-10.98	H
14.280244	18.06	RMS	39.4	.7	-95.2	-13.65	-50.69	-40	-10.69	V
Mid Channel, 3620.01MHz										
7.250072	18.37	RMS	35.6	.6	-95.2	-18.3	-58.93	-40	-18.93	H
7.250072	17.93	RMS	35.6	.6	-95.2	-18.3	-59.37	-40	-19.37	V
10.875534	16.85	RMS	37.9	.5	-95.2	-14.7	-54.65	-40	-14.65	H
10.875534	16.58	RMS	37.9	.5	-95.2	-14.7	-54.92	-40	-14.92	V
14.500556	17.90	RMS	39.7	.8	-95.2	-14.0	-50.80	-40	-10.80	H
14.500556	17.44	RMS	39.7	.8	-95.2	-14.0	-51.26	-40	-11.26	V
High Channel, 3679.98MHz										
7.360669	17.82	RMS	35.6	.7	-95.2	-18.20	-59.28	-40	-19.28	H
7.360669	18.23	RMS	35.6	.7	-95.2	-18.20	-58.87	-40	-18.87	V
11.040328	16.91	RMS	37.9	.6	-95.2	-14.37	-54.16	-40	-14.16	H
11.040328	16.81	RMS	37.9	.6	-95.2	-14.37	-54.26	-40	-14.26	V
14.720428	17.42	RMS	40.0	.9	-95.2	-13.5	-50.38	-40	-10.38	H
14.720428	16.19	RMS	40.0	.9	-95.2	-13.5	-51.61	-40	-11.61	V

10.7. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 9+8

10.7.1. 5G NR n48 MIMO

Project #:	14982436
Date:	2024-07-02
Test Engineer:	32145
Configuration:	EUT Only
Mode	5G NR n48 40MHz QPSK MIMO
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400- 3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.179131	25.03	RMS	35.6	.6	-95.2	-26.91	-60.88	-40	-20.88	V
7.185300	24.45	RMS	35.6	.6	-95.2	-26.90	-61.45	-40	-21.45	H
10.793578	22.67	RMS	37.7	.6	-95.2	-23.90	-58.13	-40	-18.13	V
10.794459	22.78	RMS	37.7	.6	-95.2	-23.95	-58.07	-40	-18.07	H
14.378503	19.78	RMS	39.1	.8	-95.2	-19.90	-55.42	-40	-15.42	V
14.426091	20.75	RMS	39.2	.8	-95.2	-19.61	-54.06	-40	-14.06	H
Mid Channel, 3620.01MHz										
7.224956	24.51	RMS	35.6	.5	-95.2	-26.90	-61.49	-40	-21.49	V
7.250072	24.67	RMS	35.6	.6	-95.2	-26.79	-61.12	-40	-21.12	H
10.820016	23.09	RMS	37.7	.6	-95.2	-24.00	-57.81	-40	-17.81	V
10.842488	23.41	RMS	37.7	.5	-95.2	-24.15	-57.74	-40	-17.74	H
14.430056	20.12	RMS	39.2	.8	-95.2	-19.61	-54.69	-40	-14.69	V
14.507166	19.96	RMS	39.2	.8	-95.2	-19.80	-55.04	-40	-15.04	H
High Channel, 3679.98MHz										
7.340400	24.43	RMS	35.5	.6	-95.2	-26.96	-61.63	-40	-21.63	H
7.345688	24.22	RMS	35.5	.6	-95.2	-26.9	-61.78	-40	-21.78	V
10.064344	23.48	RMS	37.2	.6	-95.2	-25.13	-59.05	-40	-19.05	H
10.084613	23.50	RMS	37.2	.6	-95.2	-25	-58.90	-40	-18.90	V
14.768456	19.87	RMS	39.4	.8	-95.2	-19.85	-54.98	-40	-14.98	V
14.768897	19.63	RMS	39.4	.8	-95.2	-19.81	-55.18	-40	-15.18	H

10.8. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 9+4

10.8.1. 5G NR n48 MIMO

Project #:	14982436
Date:	2024-07-02
Test Engineer:	32145
Configuration:	EUT Only
Mode	5G NR n48 40MHz QPSK MIMO
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400- 3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.180013	24.44	RMS	35.6	.6	-95.2	-27.00	-61.56	-40	-21.56	H
7.186181	24.72	RMS	35.6	.6	-95.2	-26.90	-61.18	-40	-21.18	V
10.636716	22.86	RMS	37.6	.6	-95.2	-24.64	-58.78	-40	-18.78	V
10.694878	22.95	RMS	37.6	.5	-95.2	-24.30	-58.45	-40	-18.45	H
14.219878	20.46	RMS	39.0	.8	-95.2	-20.00	-54.94	-40	-14.94	V
14.294784	20.62	RMS	39.1	.6	-95.2	-20.24	-55.12	-40	-15.12	H
Mid Channel, 3620.01MHz										
7.137713	24.24	RMS	35.6	.6	-95.2	-27.10	-61.86	-40	-21.86	V
7.140797	24.95	RMS	35.6	.6	-95.2	-27.18	-61.23	-40	-21.23	H
10.701488	22.73	RMS	37.6	.5	-95.2	-24.25	-58.62	-40	-18.62	V
10.708538	22.68	RMS	37.6	.5	-95.2	-24.20	-58.62	-40	-18.62	H
14.194322	20.46	RMS	39.0	.7	-95.2	-20.10	-55.14	-40	-15.14	V
14.224725	20.53	RMS	39.0	.8	-95.2	-20.10	-54.97	-40	-14.97	H
High Channel, 3679.98MHz										
7.332909	24.43	RMS	35.5	.5	-95.2	-26.89	-61.66	-40	-21.66	H
7.340400	24.35	RMS	35.5	.6	-95.2	-26.96	-61.71	-40	-21.71	V
11.459363	21.37	RMS	38.1	.8	-95.2	-22.63	-57.56	-40	-17.56	V
11.460244	21.52	RMS	38.1	.8	-95.2	-22.50	-57.28	-40	-17.28	H
14.775947	20.05	RMS	39.4	.8	-95.2	-20.00	-54.95	-40	-14.95	H
14.800622	19.65	RMS	39.4	1	-95.2	-20.04	-55.19	-40	-15.19	V

11. SETUP PHOTOS

Please refer to 14982436-EP1V1 for Setup Photo Report for setup photos.

END OF REPORT