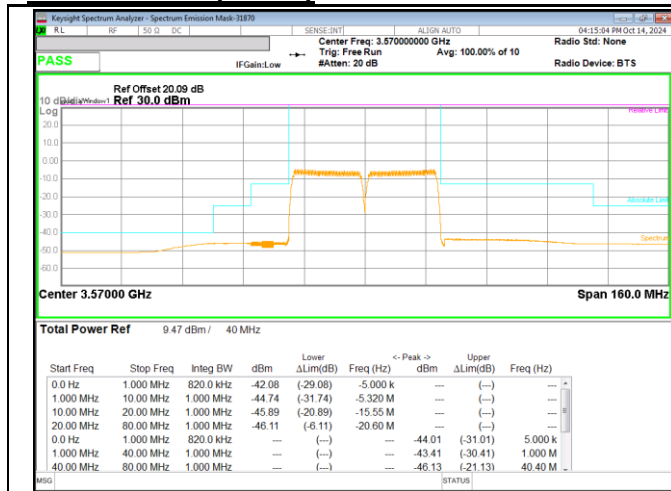
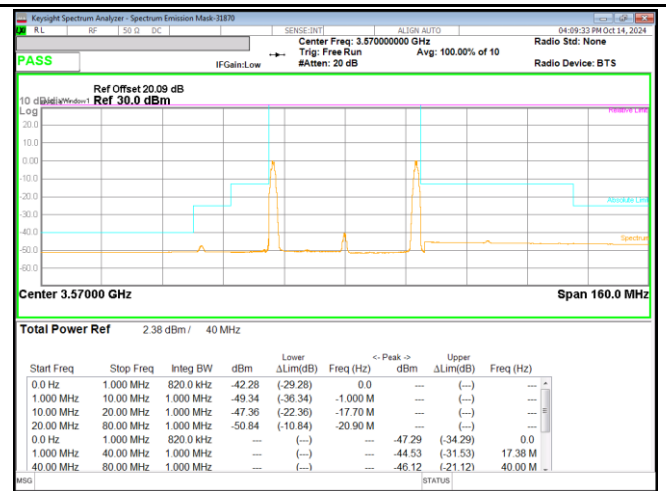


LTE Band 48C (UL CA)



LTE B48 20MHz + 20MHz QPSK Low Ch RB100-0 + RB100-0



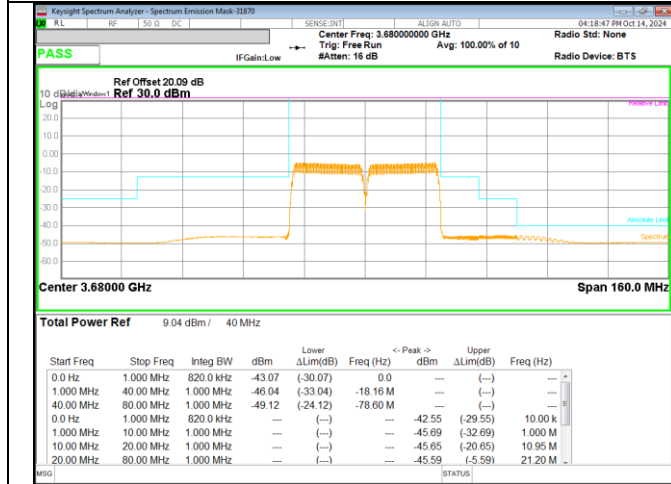
LTE B48 20MHz + 20MHz QPSK Low Ch RB1-0 + RB1-99



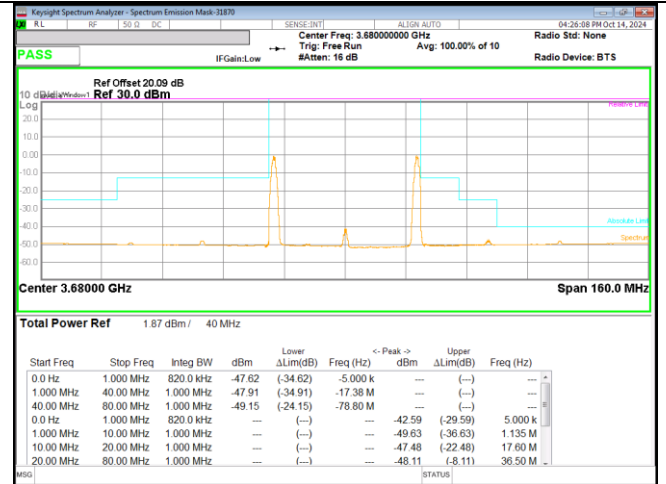
LTE B48 20MHz + 20MHz QPSK Mid Ch RB100-0 + RB100-0



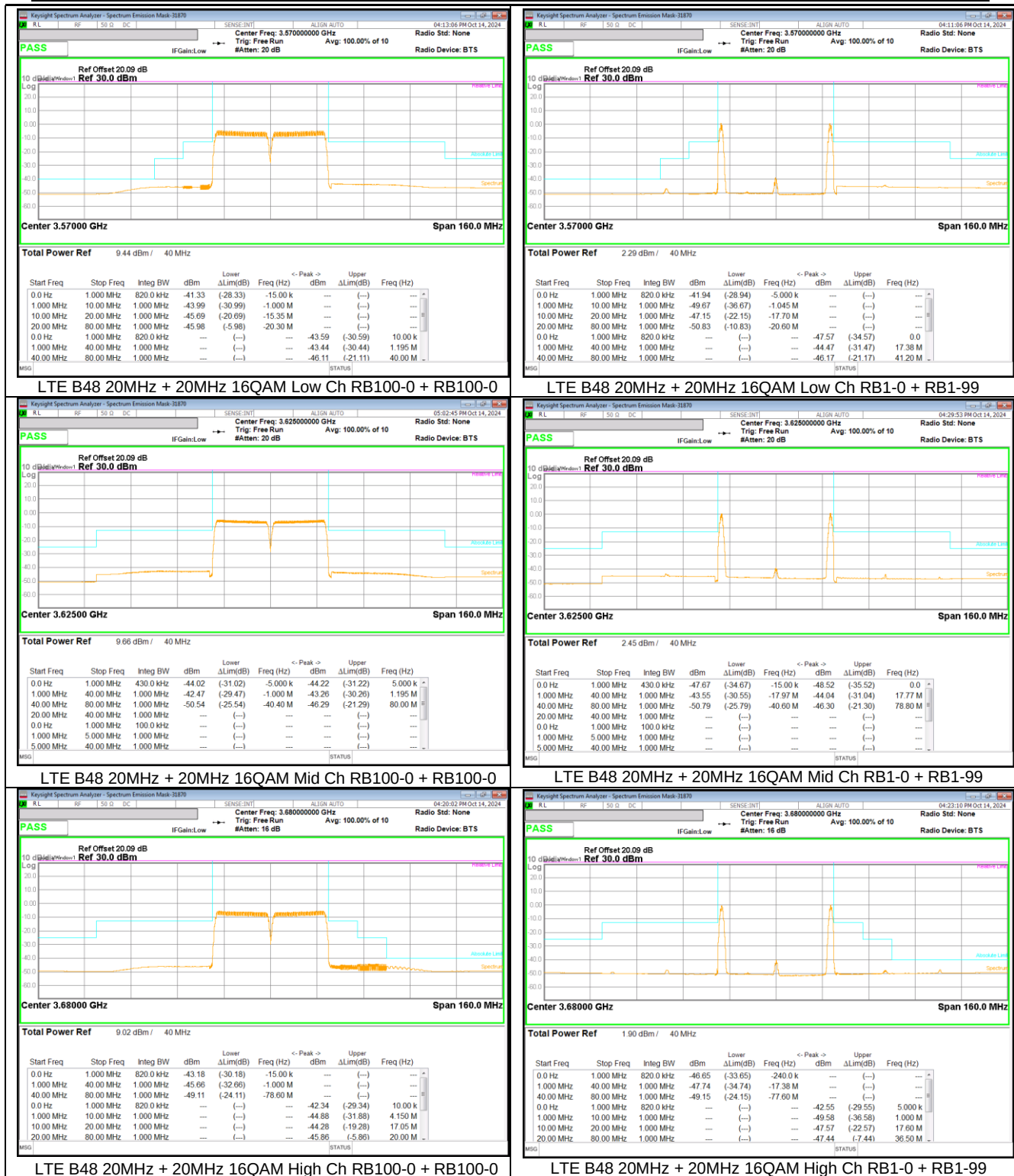
LTE B48 20MHz + 20MHz QPSK Mid Ch RB1-0 + RB1-99



LTE B48 20MHz + 20MHz QPSK High Ch RB100-0 + RB100-0

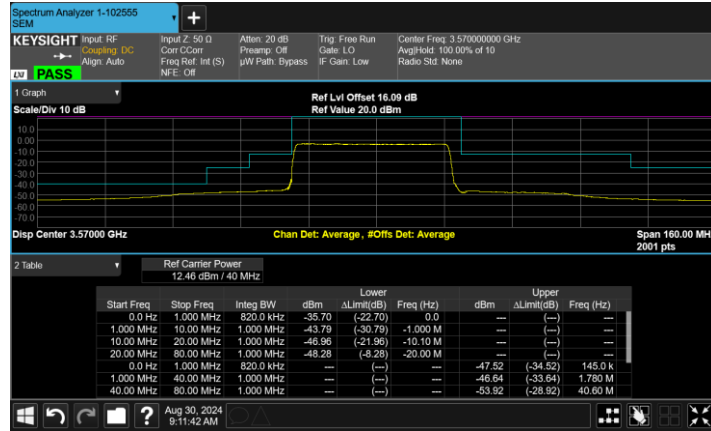


LTE B48 20MHz + 20MHz QPSK High Ch RB1-0 + RB1-99

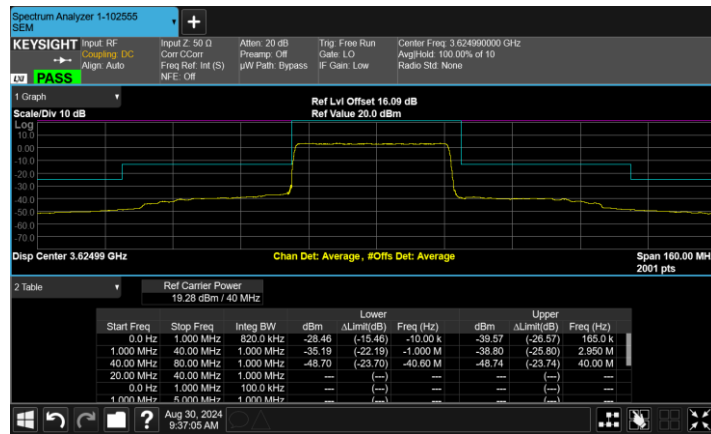


NR Band n48

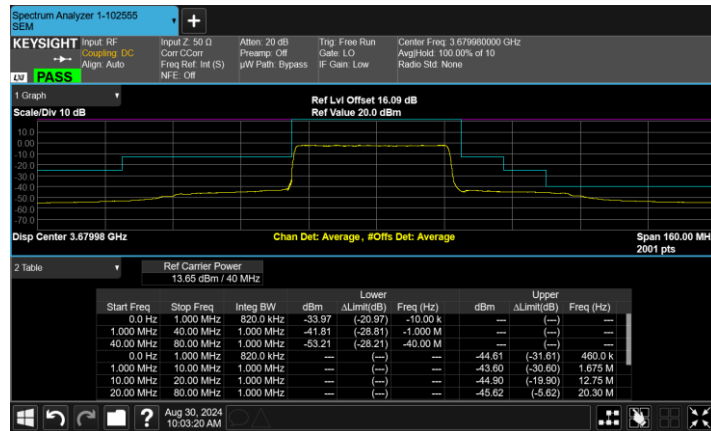
40 MHz
QPSK
FRB



Low channel

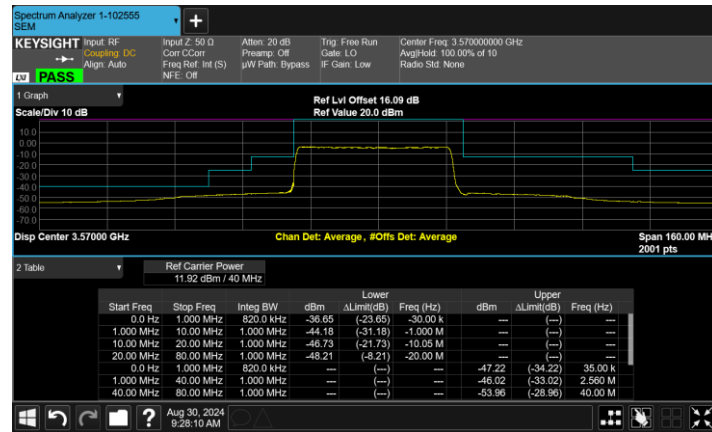


Mid channel

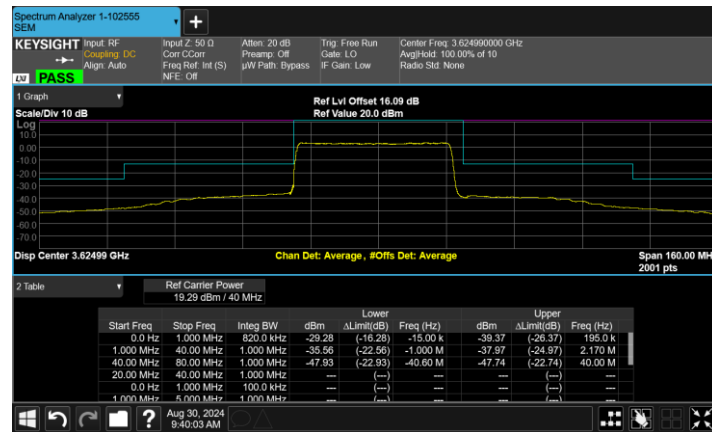


High channel

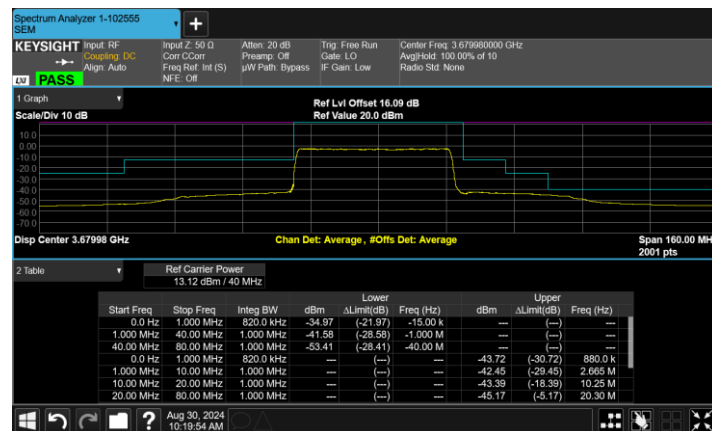
40 MHz
16QAM
FRB



Low channel

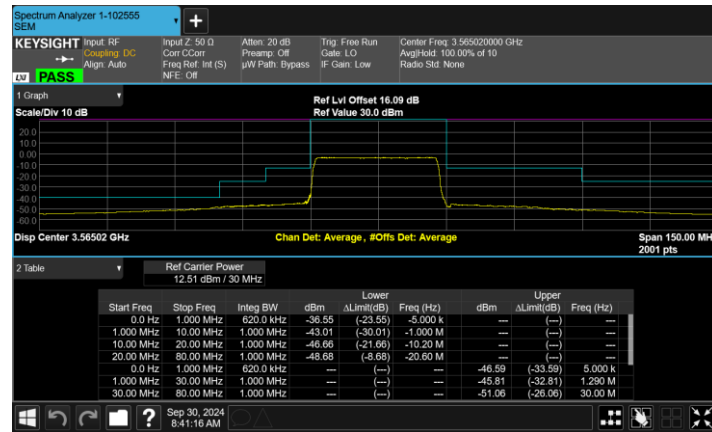


Mid channel

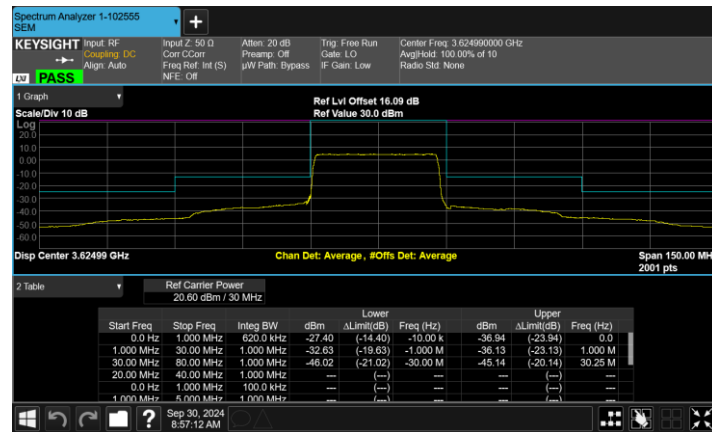


High channel

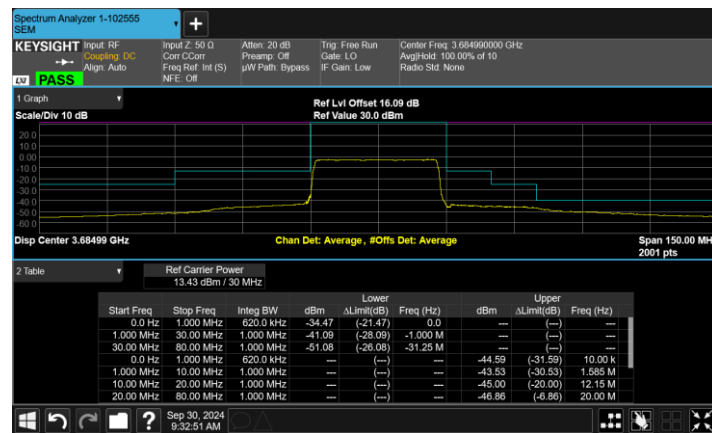
30 MHz
QPSK
FRB



Low channel

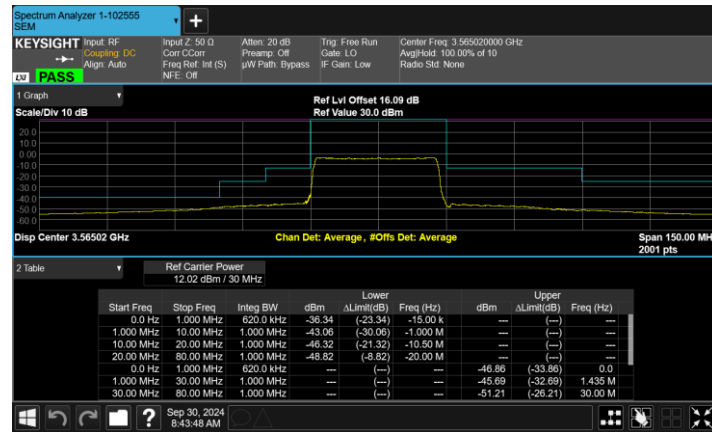


Mid channel

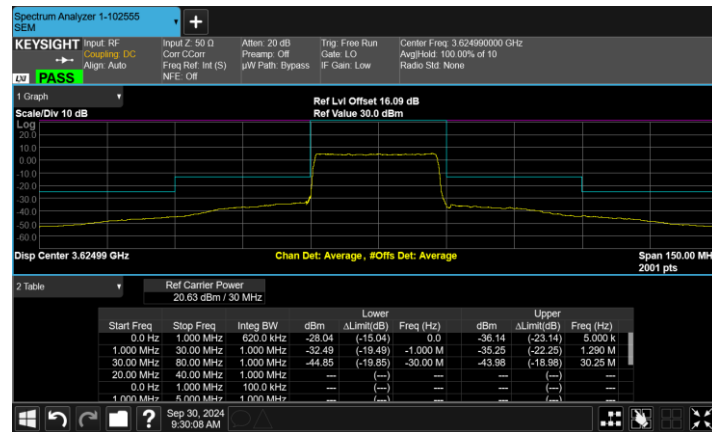


High channel

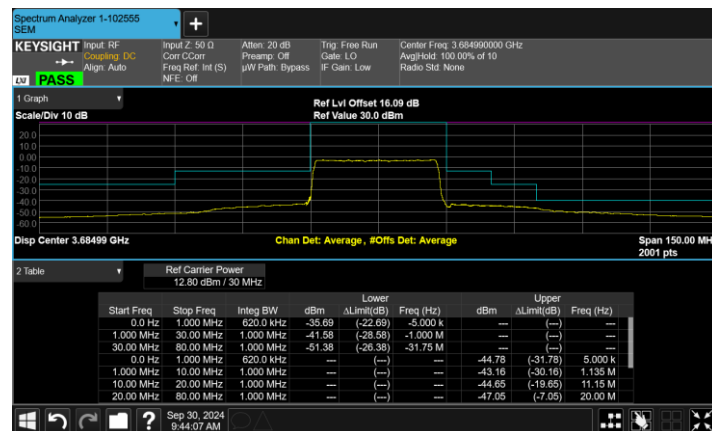
30 MHz
16QAM
FRB



Low channel

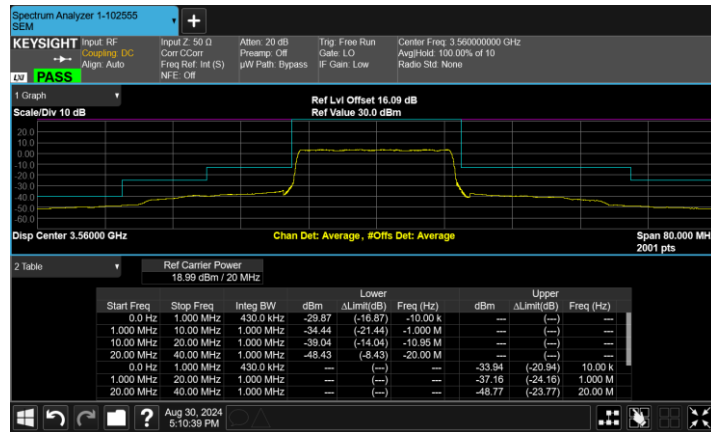


Mid channel

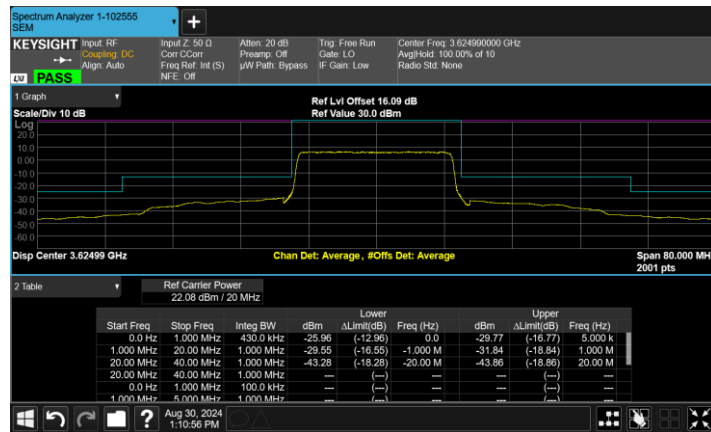


High channel

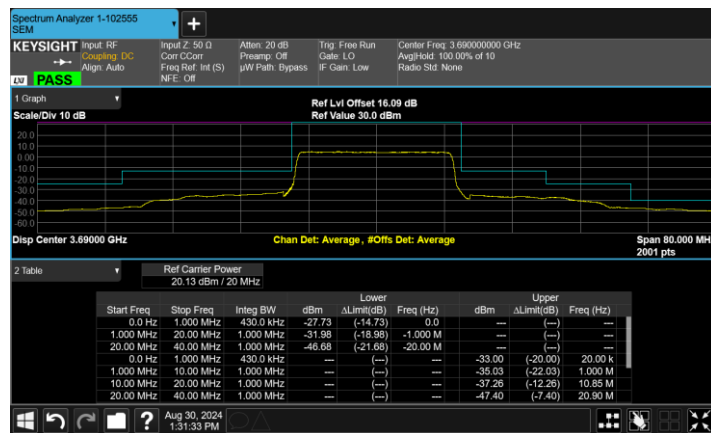
20 MHz
QPSK
FRB



Low channel

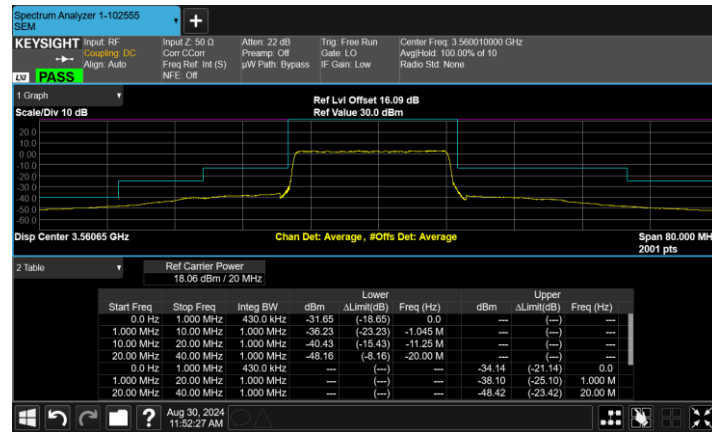


Mid channel

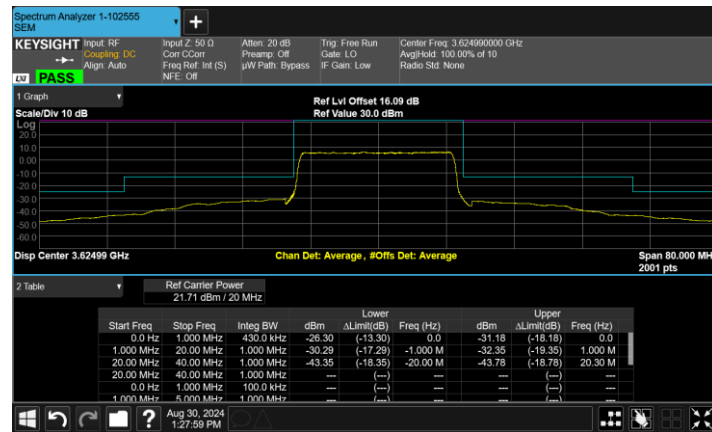


High channel

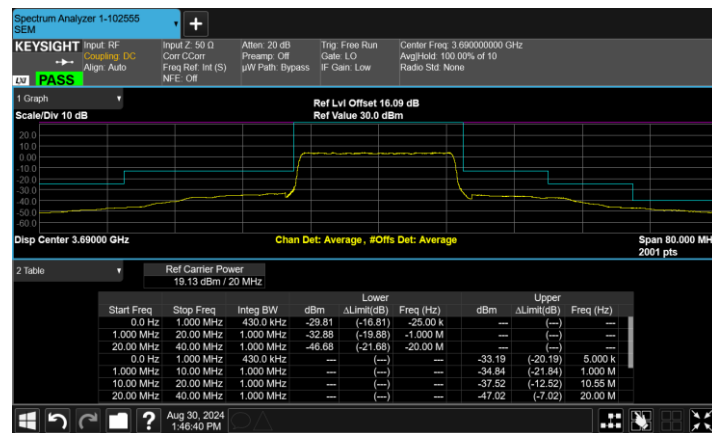
20 MHz
16QAM
FRB



Low channel

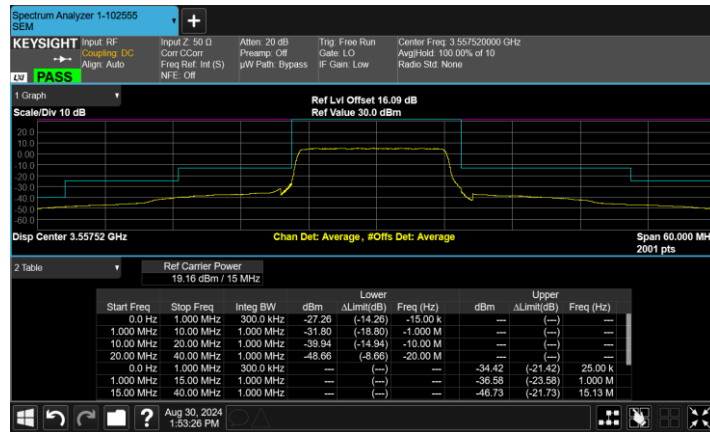


Mid channel

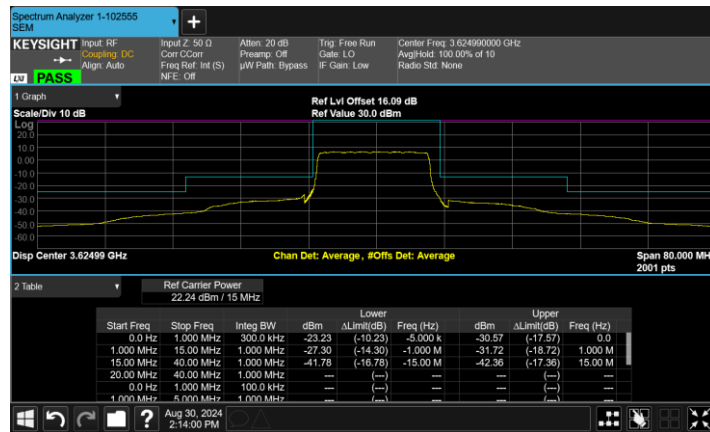


High channel

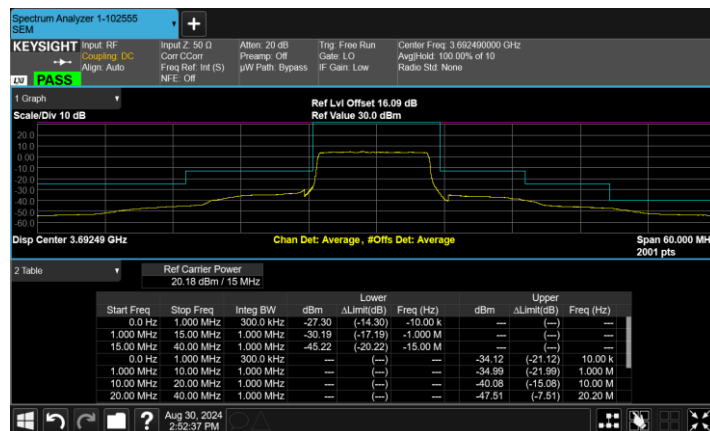
15 MHz
QPSK
FRB



Low channel

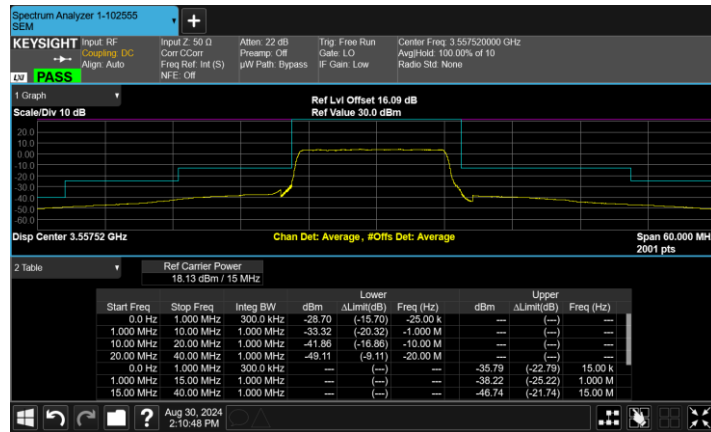


Mid channel

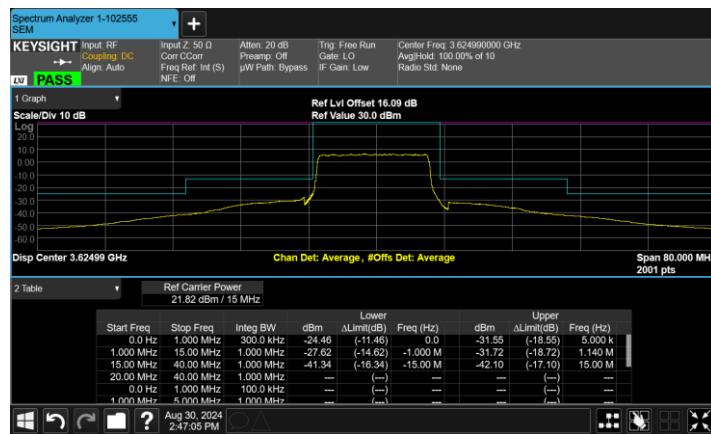


High channel

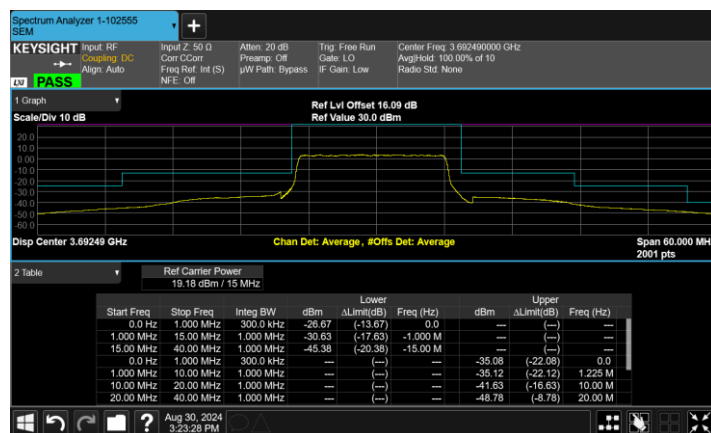
15 MHz
16QAM
FRB



Low channel

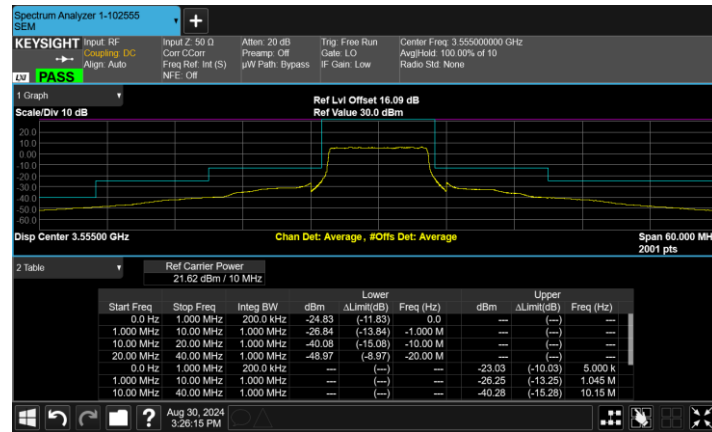


Mid channel

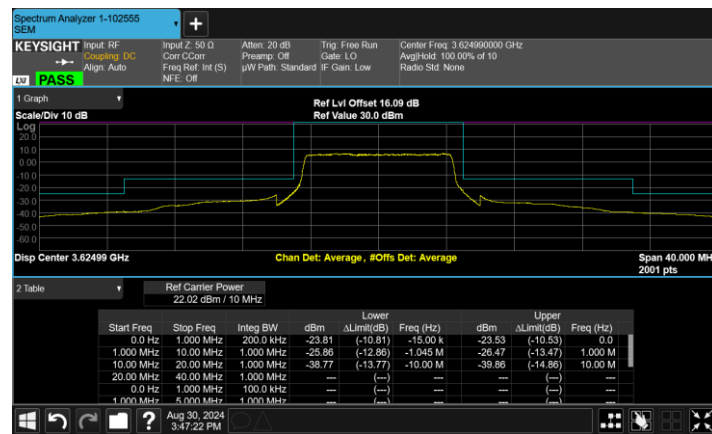


High channel

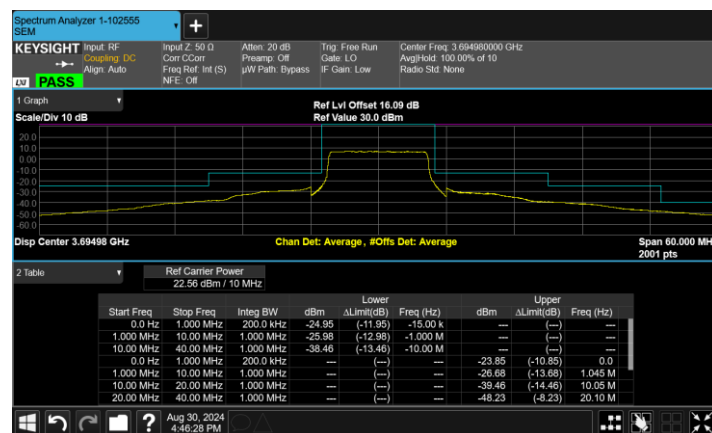
10 MHz
QPSK
FRB



Low channel

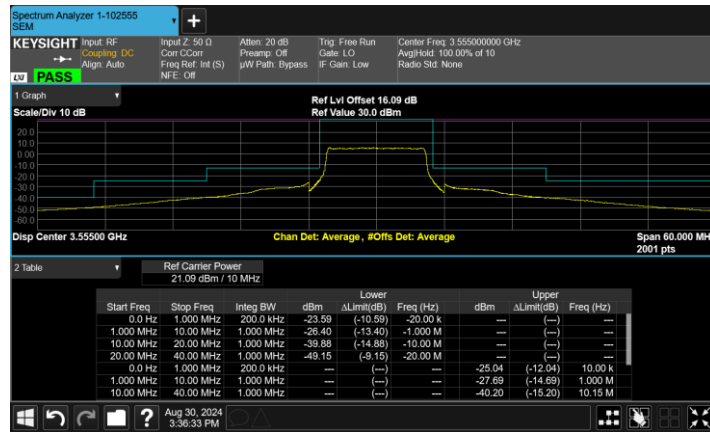


Mid channel

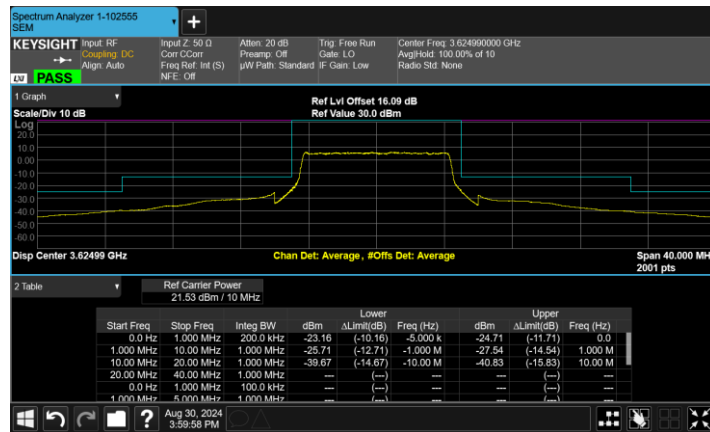


High channel

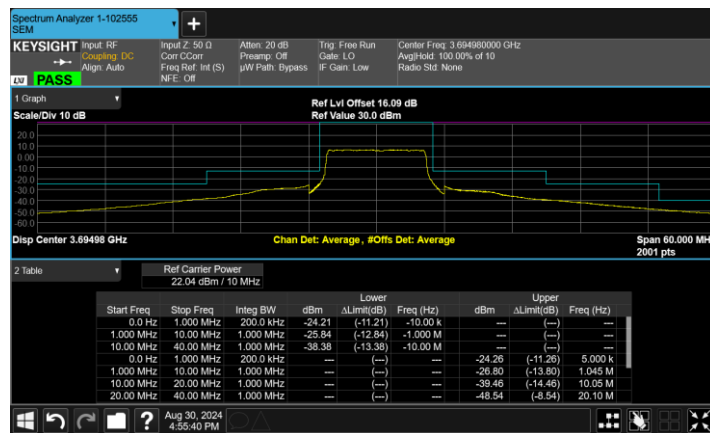
10 MHz
16QAM
FRB



Low channel

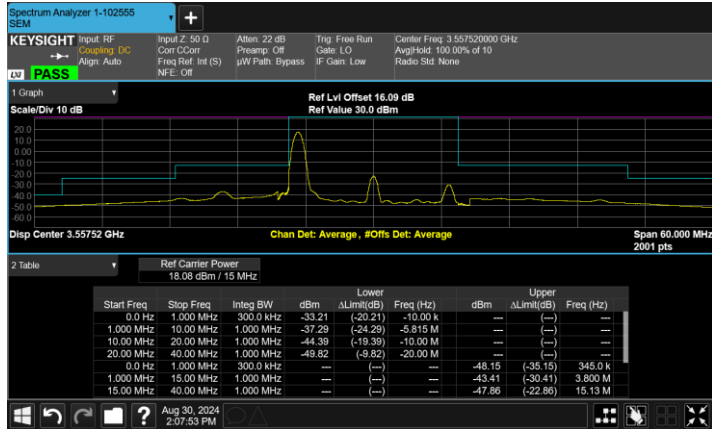
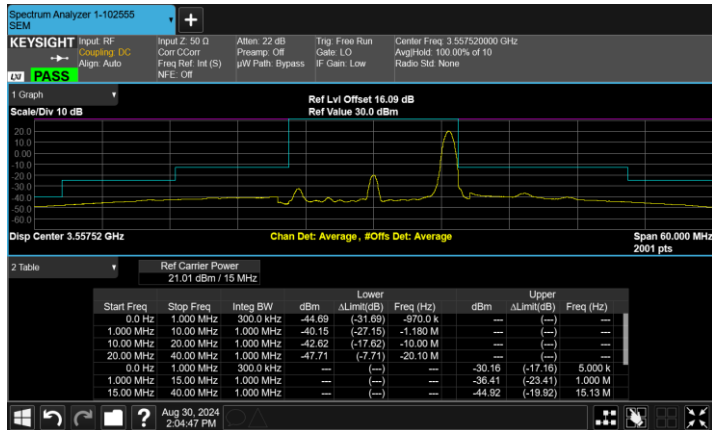


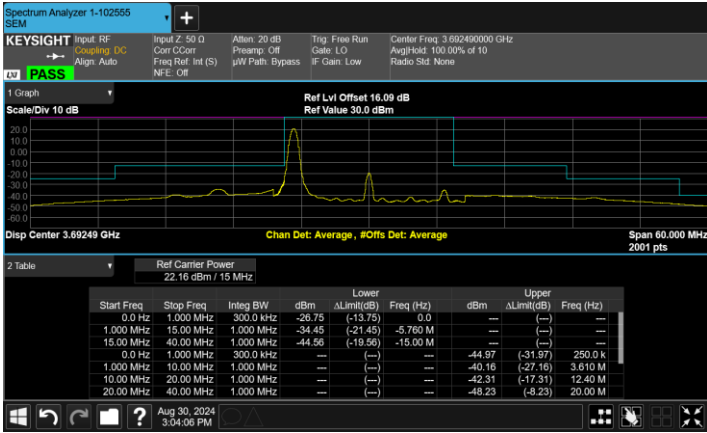
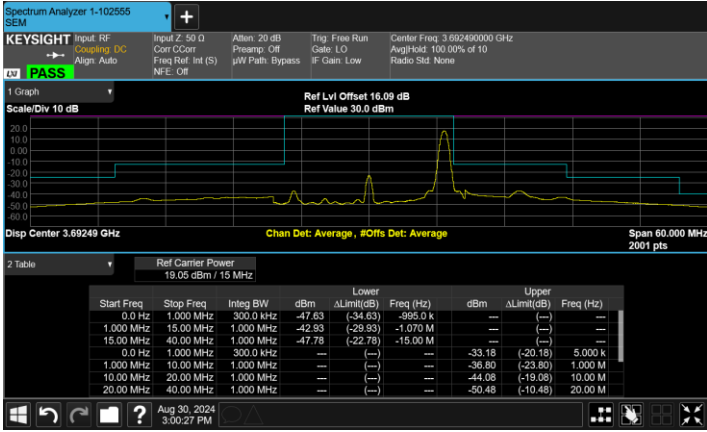
Mid channel



High channel

NR Band n48 1 RB (Worst Case)

15 MHz 16QAM 1RB Offset 0	 <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>ΔLimit(dB)</th><th>Freq (Hz)</th><th>dBm</th><th>ΔLimit(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>300.0 kHz</td><td>-33.21</td><td>(-20.21)</td><td>-10.00 k</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>1.000 MHz</td><td>10.00 MHz</td><td>1.000 MHz</td><td>-37.29</td><td>(-24.29)</td><td>-5.815 M</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>10.00 MHz</td><td>20.00 MHz</td><td>1.000 MHz</td><td>-44.39</td><td>(-19.39)</td><td>-10.00 M</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>20.00 MHz</td><td>40.00 MHz</td><td>1.000 MHz</td><td>-49.82</td><td>(-9.82)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>300.0 kHz</td><td>---</td><td>(---)</td><td>---</td><td>-48.15</td><td>(-35.15)</td><td>345.0 k</td></tr><tr><td>1.000 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>-43.41</td><td>(-30.41)</td><td>3.800 M</td></tr><tr><td>15.00 MHz</td><td>40.00 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>-47.86</td><td>(-22.86)</td><td>15.13 M</td></tr></table> Low channel	Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)	0.0 Hz	1.000 MHz	300.0 kHz	-33.21	(-20.21)	-10.00 k	---	(---)	---	1.000 MHz	10.00 MHz	1.000 MHz	-37.29	(-24.29)	-5.815 M	---	(---)	---	10.00 MHz	20.00 MHz	1.000 MHz	-44.39	(-19.39)	-10.00 M	---	(---)	---	20.00 MHz	40.00 MHz	1.000 MHz	-49.82	(-9.82)	---	---	(---)	---	0.0 Hz	1.000 MHz	300.0 kHz	---	(---)	---	-48.15	(-35.15)	345.0 k	1.000 MHz	15.00 MHz	1.000 MHz	---	(---)	---	-43.41	(-30.41)	3.800 M	15.00 MHz	40.00 MHz	1.000 MHz	---	(---)	---	-47.86	(-22.86)	15.13 M
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)																																																																	
0.0 Hz	1.000 MHz	300.0 kHz	-33.21	(-20.21)	-10.00 k	---	(---)	---																																																																	
1.000 MHz	10.00 MHz	1.000 MHz	-37.29	(-24.29)	-5.815 M	---	(---)	---																																																																	
10.00 MHz	20.00 MHz	1.000 MHz	-44.39	(-19.39)	-10.00 M	---	(---)	---																																																																	
20.00 MHz	40.00 MHz	1.000 MHz	-49.82	(-9.82)	---	---	(---)	---																																																																	
0.0 Hz	1.000 MHz	300.0 kHz	---	(---)	---	-48.15	(-35.15)	345.0 k																																																																	
1.000 MHz	15.00 MHz	1.000 MHz	---	(---)	---	-43.41	(-30.41)	3.800 M																																																																	
15.00 MHz	40.00 MHz	1.000 MHz	---	(---)	---	-47.86	(-22.86)	15.13 M																																																																	
15 MHz 16QAM 1RB Offset 37	 <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>ΔLimit(dB)</th><th>Freq (Hz)</th><th>dBm</th><th>ΔLimit(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>300.0 kHz</td><td>-44.69</td><td>(-31.69)</td><td>-970.0 k</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>1.000 MHz</td><td>10.00 MHz</td><td>1.000 MHz</td><td>-40.15</td><td>(-27.15)</td><td>-1.180 M</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>10.00 MHz</td><td>20.00 MHz</td><td>1.000 MHz</td><td>-42.62</td><td>(-17.62)</td><td>-10.00 M</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>20.00 MHz</td><td>40.00 MHz</td><td>1.000 MHz</td><td>-47.71</td><td>(-7.71)</td><td>-20.10 M</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>300.0 kHz</td><td>---</td><td>(---)</td><td>---</td><td>-30.16</td><td>(-17.16)</td><td>5.000 k</td></tr><tr><td>1.000 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>-36.41</td><td>(-23.41)</td><td>1.000 M</td></tr><tr><td>15.00 MHz</td><td>40.00 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>-44.92</td><td>(-19.92)</td><td>15.13 M</td></tr></table> Low channel	Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)	0.0 Hz	1.000 MHz	300.0 kHz	-44.69	(-31.69)	-970.0 k	---	(---)	---	1.000 MHz	10.00 MHz	1.000 MHz	-40.15	(-27.15)	-1.180 M	---	(---)	---	10.00 MHz	20.00 MHz	1.000 MHz	-42.62	(-17.62)	-10.00 M	---	(---)	---	20.00 MHz	40.00 MHz	1.000 MHz	-47.71	(-7.71)	-20.10 M	---	(---)	---	0.0 Hz	1.000 MHz	300.0 kHz	---	(---)	---	-30.16	(-17.16)	5.000 k	1.000 MHz	15.00 MHz	1.000 MHz	---	(---)	---	-36.41	(-23.41)	1.000 M	15.00 MHz	40.00 MHz	1.000 MHz	---	(---)	---	-44.92	(-19.92)	15.13 M
Start Freq	Stop Freq	Integ BW	dBm	ΔLimit(dB)	Freq (Hz)	dBm	ΔLimit(dB)	Freq (Hz)																																																																	
0.0 Hz	1.000 MHz	300.0 kHz	-44.69	(-31.69)	-970.0 k	---	(---)	---																																																																	
1.000 MHz	10.00 MHz	1.000 MHz	-40.15	(-27.15)	-1.180 M	---	(---)	---																																																																	
10.00 MHz	20.00 MHz	1.000 MHz	-42.62	(-17.62)	-10.00 M	---	(---)	---																																																																	
20.00 MHz	40.00 MHz	1.000 MHz	-47.71	(-7.71)	-20.10 M	---	(---)	---																																																																	
0.0 Hz	1.000 MHz	300.0 kHz	---	(---)	---	-30.16	(-17.16)	5.000 k																																																																	
1.000 MHz	15.00 MHz	1.000 MHz	---	(---)	---	-36.41	(-23.41)	1.000 M																																																																	
15.00 MHz	40.00 MHz	1.000 MHz	---	(---)	---	-44.92	(-19.92)	15.13 M																																																																	

15 MHz 16QAM 1RB offset 0	 High channel
15 MHz 16QAM 1RB offset 37	 High channel

8.5. CONDUCTED SPURIOUS EMISSIONS

RULE PART(S)

FCC: §2.1051, and §96.41(e)

LIMITS

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

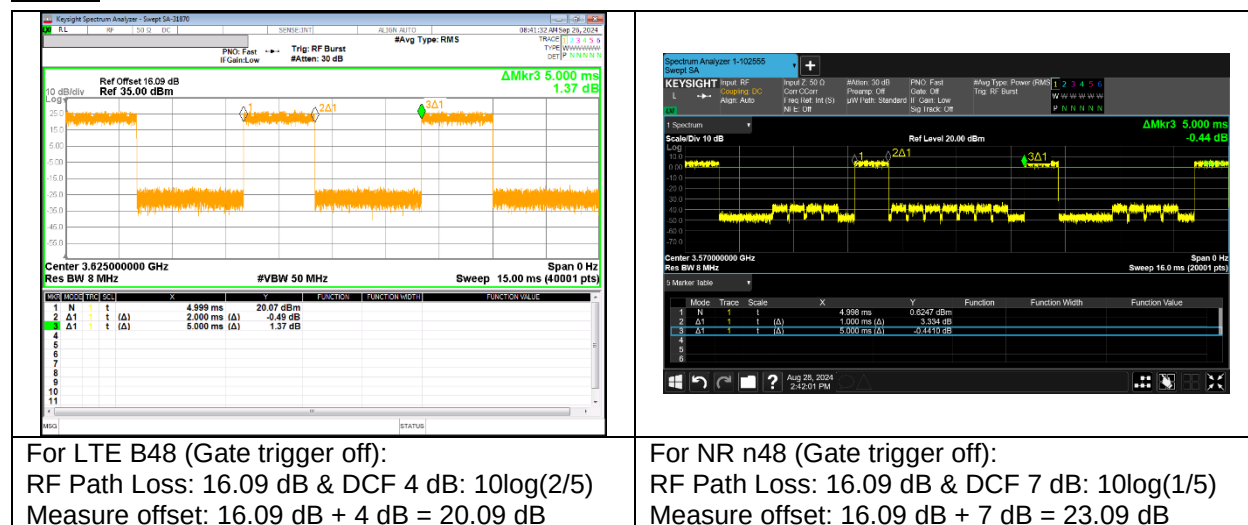
TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

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.

- Set the RBW = 100kHz for emission below 1GHz and 1MHz for emissions above 1GHz
A. (Tests were performed 1MHz [Worst case], to sweep 1 time for all frequency range)
- Set VBW $\geq 3 \times$ RBW
- Sweep time = auto couple;
- Detector = RMS;
- Ensure that the number of measurement points $\geq 2 \times \text{Span}/\text{RBW}$;
- Trace mode = Average(TDD);

NOTE1



NOTE2

Please refer to section 5.4 for bandwidth and RB setting about LTE, 5G NR bands.

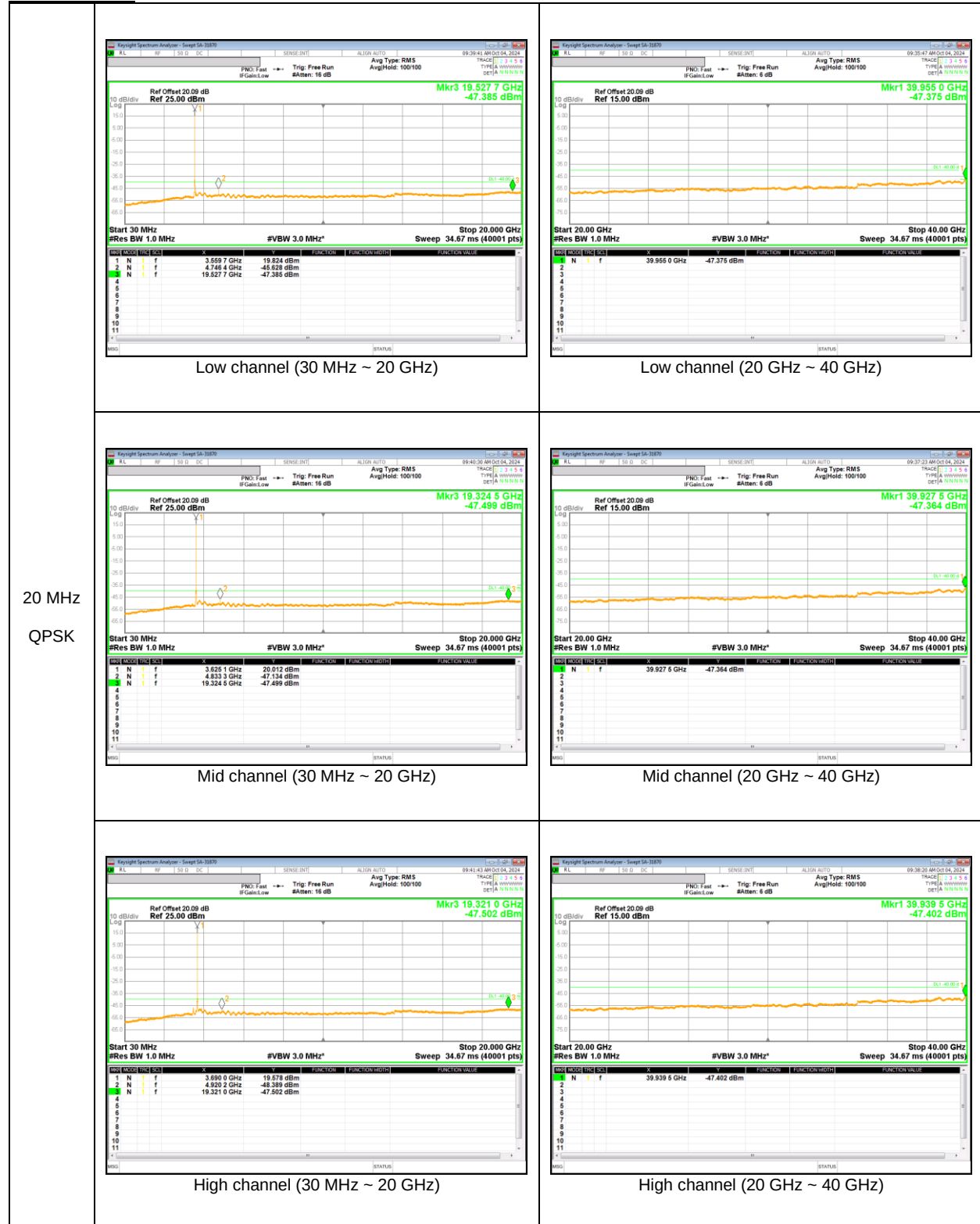
NOTE3

LTE: It was tested at 1RB QPSK as worst case (the highest output power and density).
5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

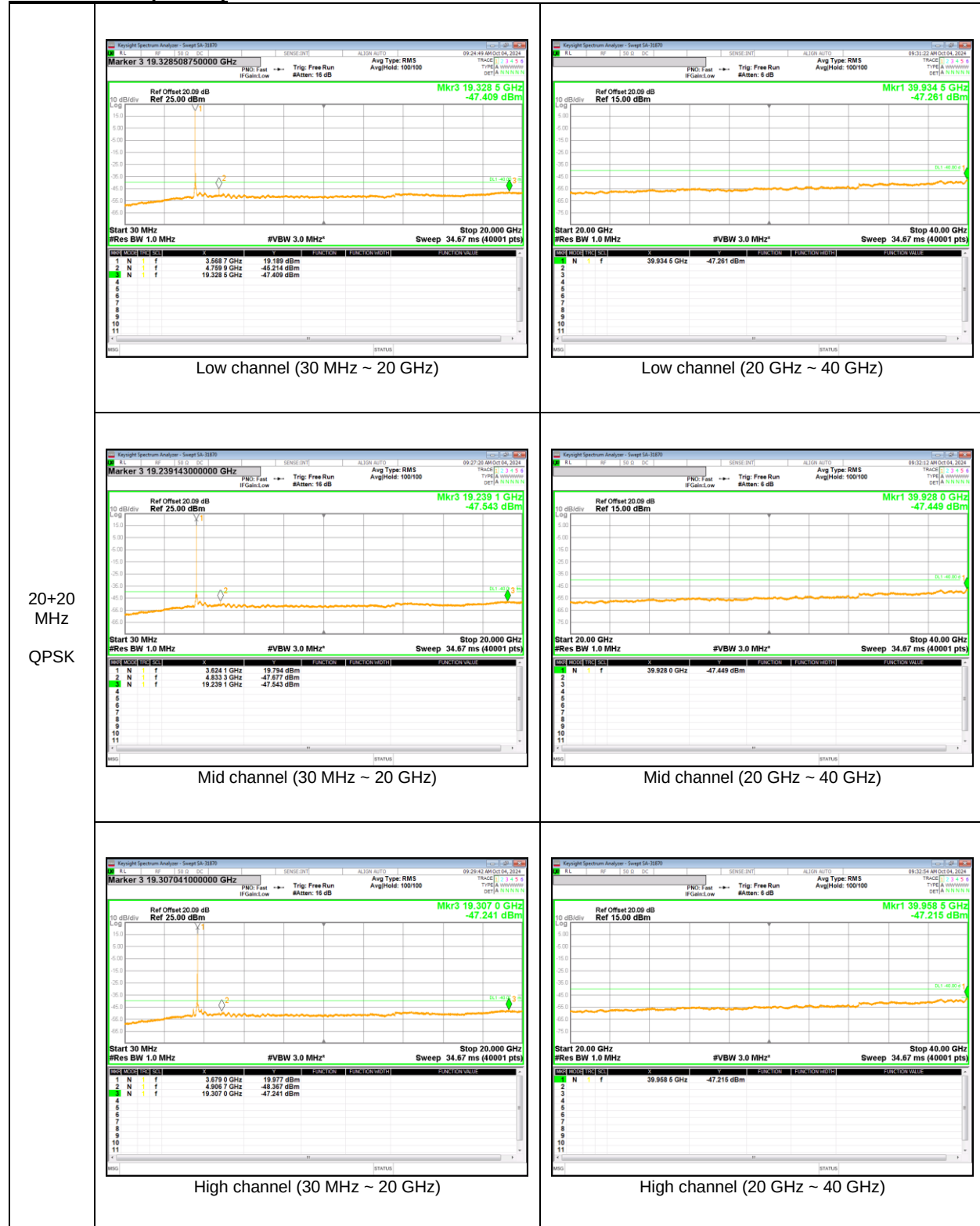
RESULTS

See the following pages.

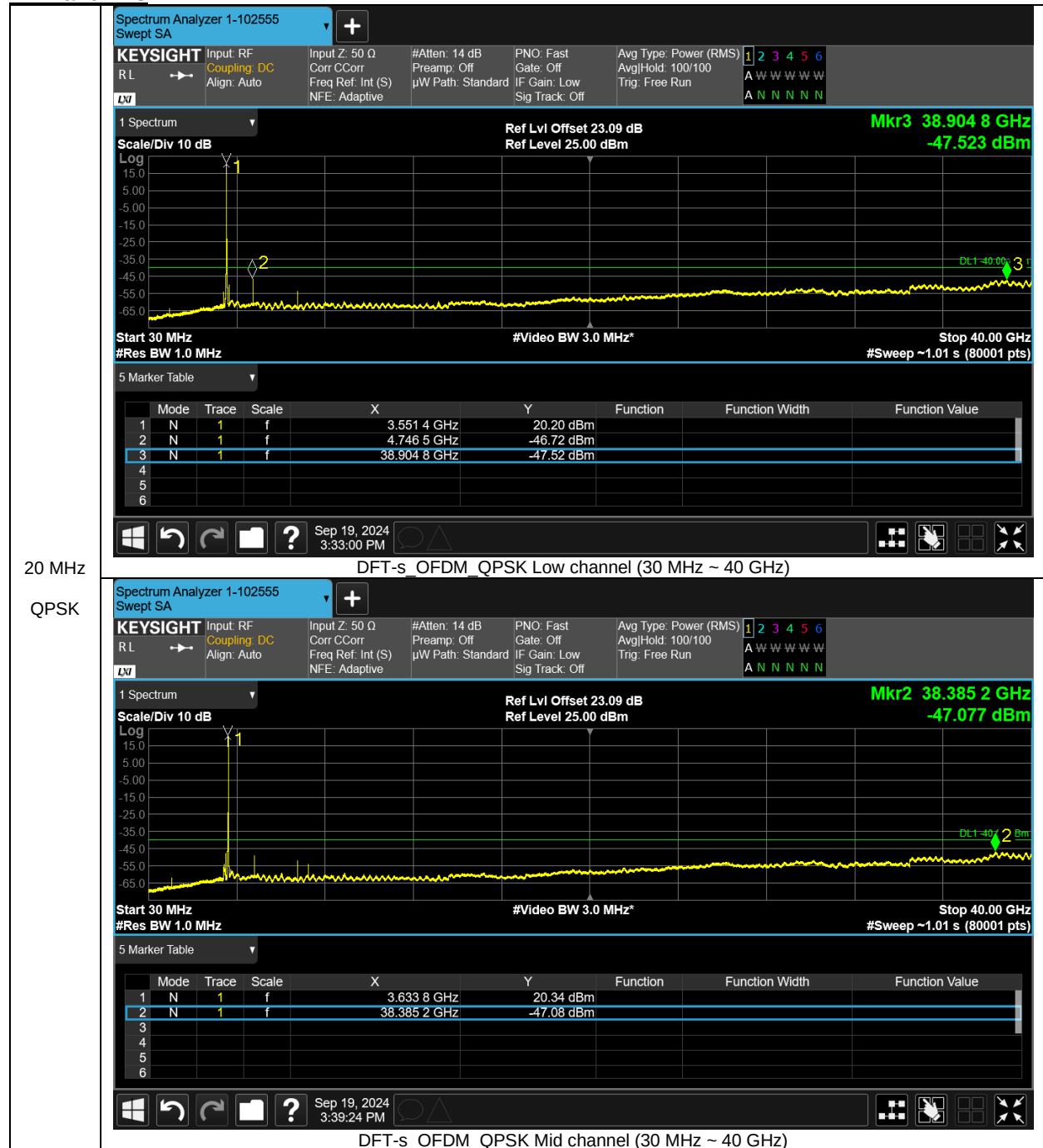
LTE Band 48

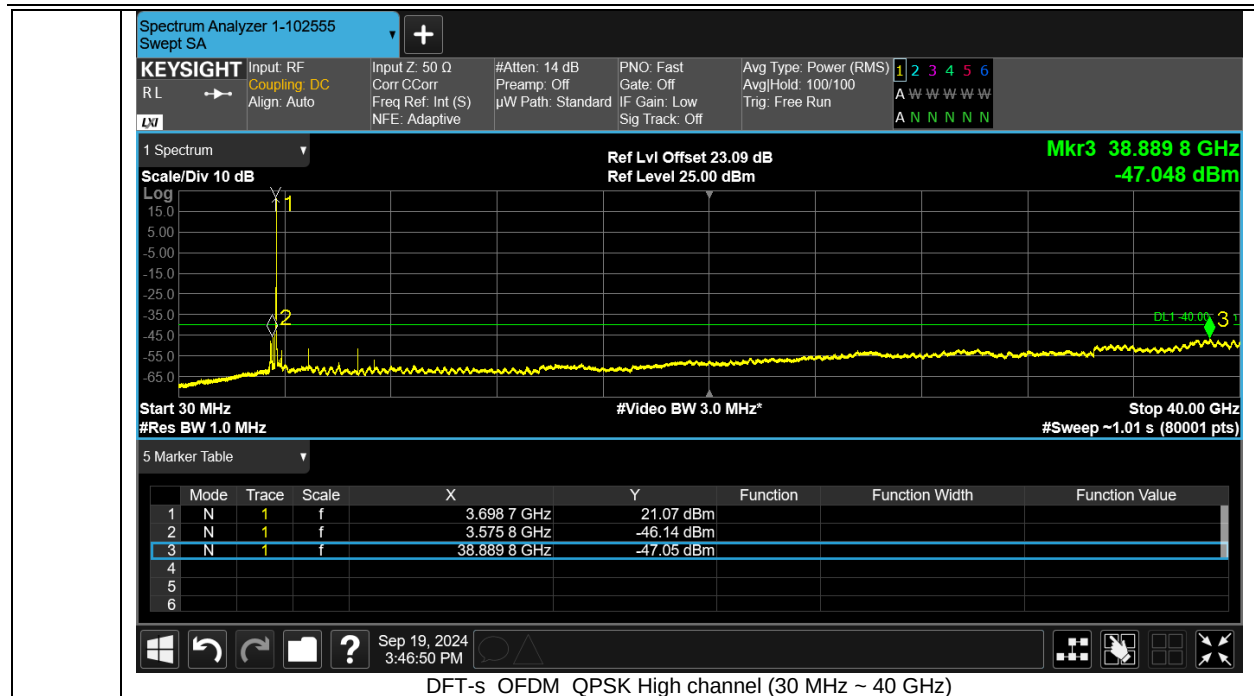


LTE Band 48C(UL CA)



NR Band n48





8.6. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055

LIMITS

For Part 96, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

NOTE

Test were performed each lowest or highest frequency on the modulation condition of more wide bandwidth.(Please refer to OBW results)

RESULTS

See the following pages.

LTE Band 48(Lowest Frequency: 16QAM / Highest Frequency: 16QAM)

Test Date	2024-09-12
Test Engineer	31870

Limit		3550	3700	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	3550.2560	3699.7401		
Extreme (50C)		3550.2561	3699.7401	52.3	0.014
Extreme (40C)		3550.2560	3699.7401	47.4	0.013
Extreme (30C)		3550.2560	3699.7401	45.6	0.013
Extreme (10C)		3550.2560	3699.7401	40.2	0.011
Extreme (0C)		3550.2560	3699.7401	38.5	0.011
Extreme (-10C)		3550.2560	3699.7401	39.7	0.011
Extreme (-20C)		3550.2560	3699.7401	40.5	0.011
Extreme (-30C)		3550.2560	3699.7401	46.2	0.013
20C	15%	3550.2561	3699.7401	55.1	0.015
	-15%	3550.2560	3699.7401	36.8	0.010
	End Point	3550.2560	3699.7401	30.5	0.008

NR Band n48(Lowest Frequency: QPSK/ Highest Frequency: 16QAM)

Test Date	2024-09-24
Test Engineer	31870

Limit		3550	3700	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	3550.6990	3699.3115		
Extreme (50C)		3550.6991	3699.3116	53.6	0.015
Extreme (40C)		3550.6990	3699.3115	48.6	0.013
Extreme (30C)		3550.6990	3699.3115	49.6	0.014
Extreme (10C)		3550.6990	3699.3115	40.2	0.011
Extreme (0C)		3550.6990	3699.3115	38.5	0.011
Extreme (-10C)		3550.6990	3699.3115	30.6	0.008
Extreme (-20C)		3550.6990	3699.3115	31.2	0.009
Extreme (-30C)		3550.6990	3699.3115	35.1	0.010
20C	15%	3550.6991	3699.3115	46.7	0.013
	-15%	3550.6990	3699.3115	31.5	0.009
	End Point	3550.6990	3699.3115	29.8	0.008

8.7. END USER DEVICE(CBSD PROTOCOL)

RULE PART(S)

FCC: §96.47

LIMITS

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

KDB 940660 D01 Part 96 CBRS v03, WINNF-TS-0122 V1.0.2

Additional requirements are required to End-User Device LTE Band 48 and 5G NR n48 devices base on CBSD protocol. During the test, the EUT and its companion certified CBSD (FCC ID: 2AS48SC-220) and (FCC ID: PIDAS2900) devices communicate with each other.

Band	Configuration	Frequency (MHz)	Power (dBm/MHz)	Bandwidth (MHz)
LTE B48	1	3560 – 3580	8	20
	2	3600 – 3620	16	20
5G NR n48	3	3590 – 3610	15	20
	4	3640 – 3660	7	20

Configuration 1

- Setup WINNF.PT.C.HBT.1 with 3560MHz-3580MHz and power level 8 dBm/MHz
- Enable AP service from companion device.
- Check EUT Transmitter Frequency and power
- Disable AP service from companion device and check EUT stop transmission within 10s.

Configuration 2

- Setup WINNF.PT.C.HBT.1 with 3600MHz-3620MHz and power level 16 dBm/MHz
- Enable AP service from companion device.
- Check EUT Transmitter Frequency and power
- Disable AP service from companion device and check EUT stop transmission within 10s.

Configuration 3

- Setup WINNF.PT.C.HBT.1 with 3590MHz-3610MHz and power level 15 dBm/MHz
- Enable AP service from companion device.
- Check EUT Transmitter Frequency and power
- Disable AP service from companion device and check EUT stop transmission within 10s.

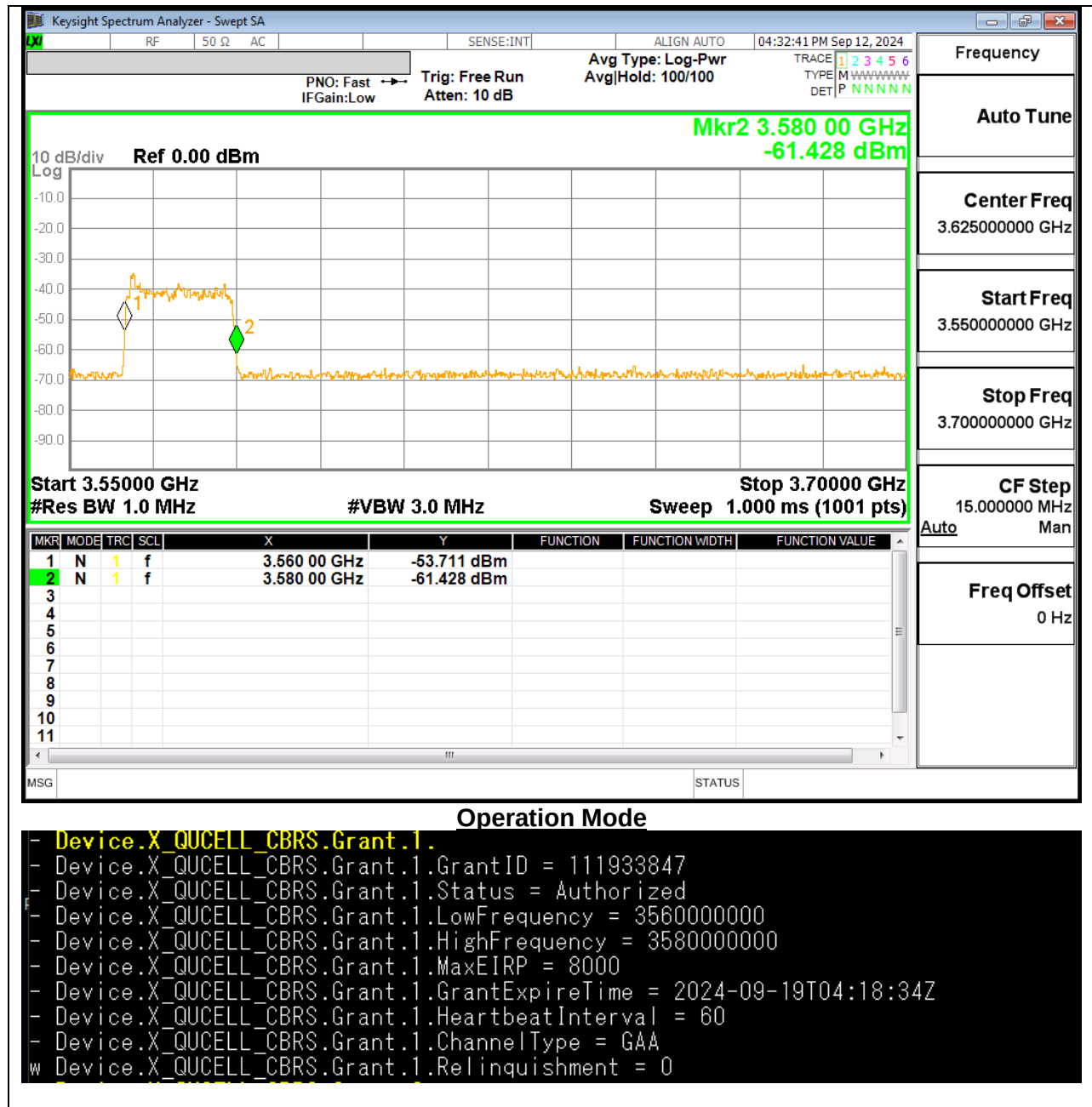
Configuration 4

- Setup WINNF.PT.C.HBT.1 with 3640MHz-3660MHz and power level 7 dBm/MHz
- Enable AP service from companion device.
- Check EUT Transmitter Frequency and power
- Disable AP service from companion device and check EUT stop transmission within 10s.

RESULTS

Next page

8.7.1. END USER DEVICE CONFIGURATION 1





Stop Operation Within 10 second Mode

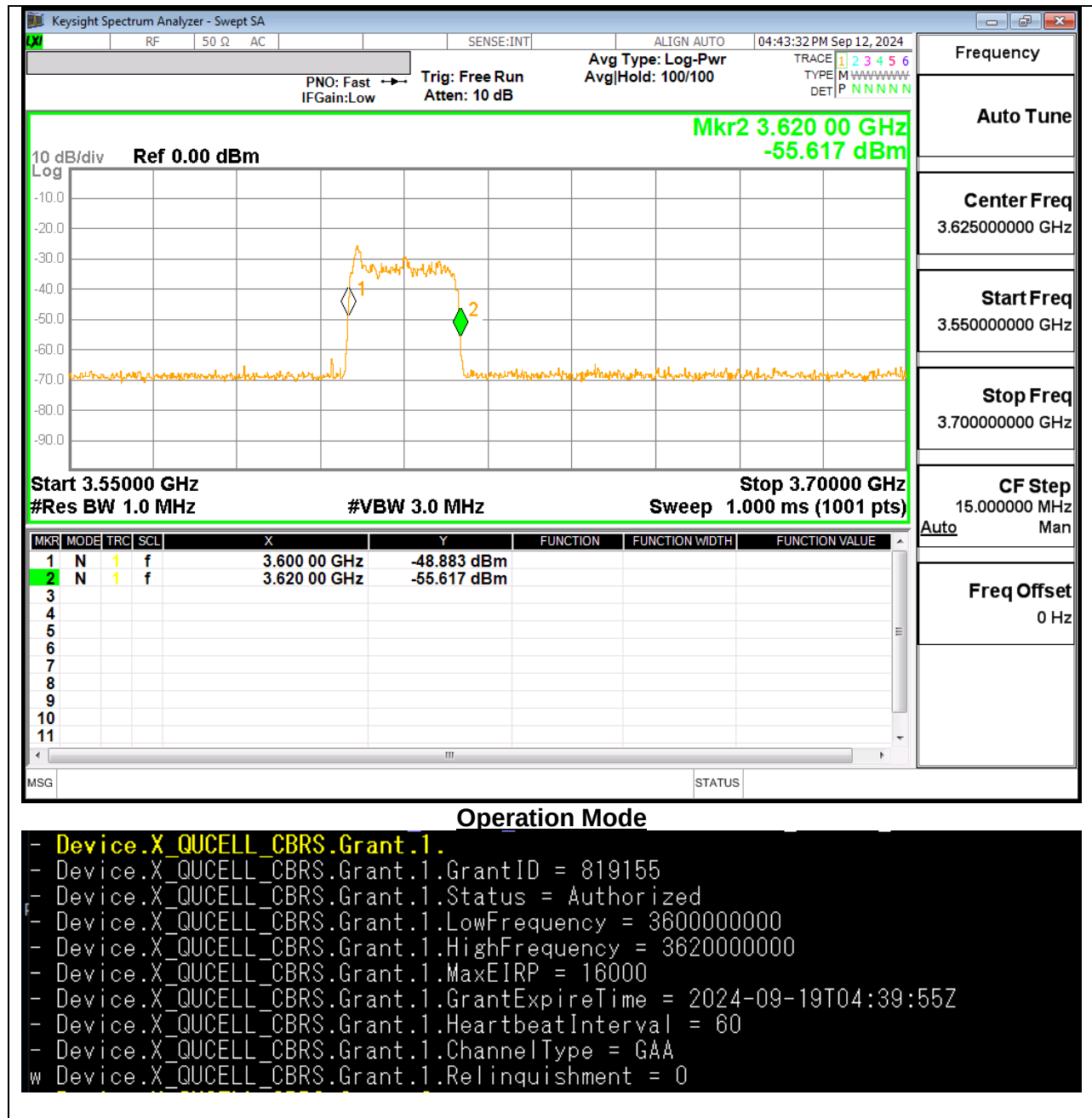
NOTE:

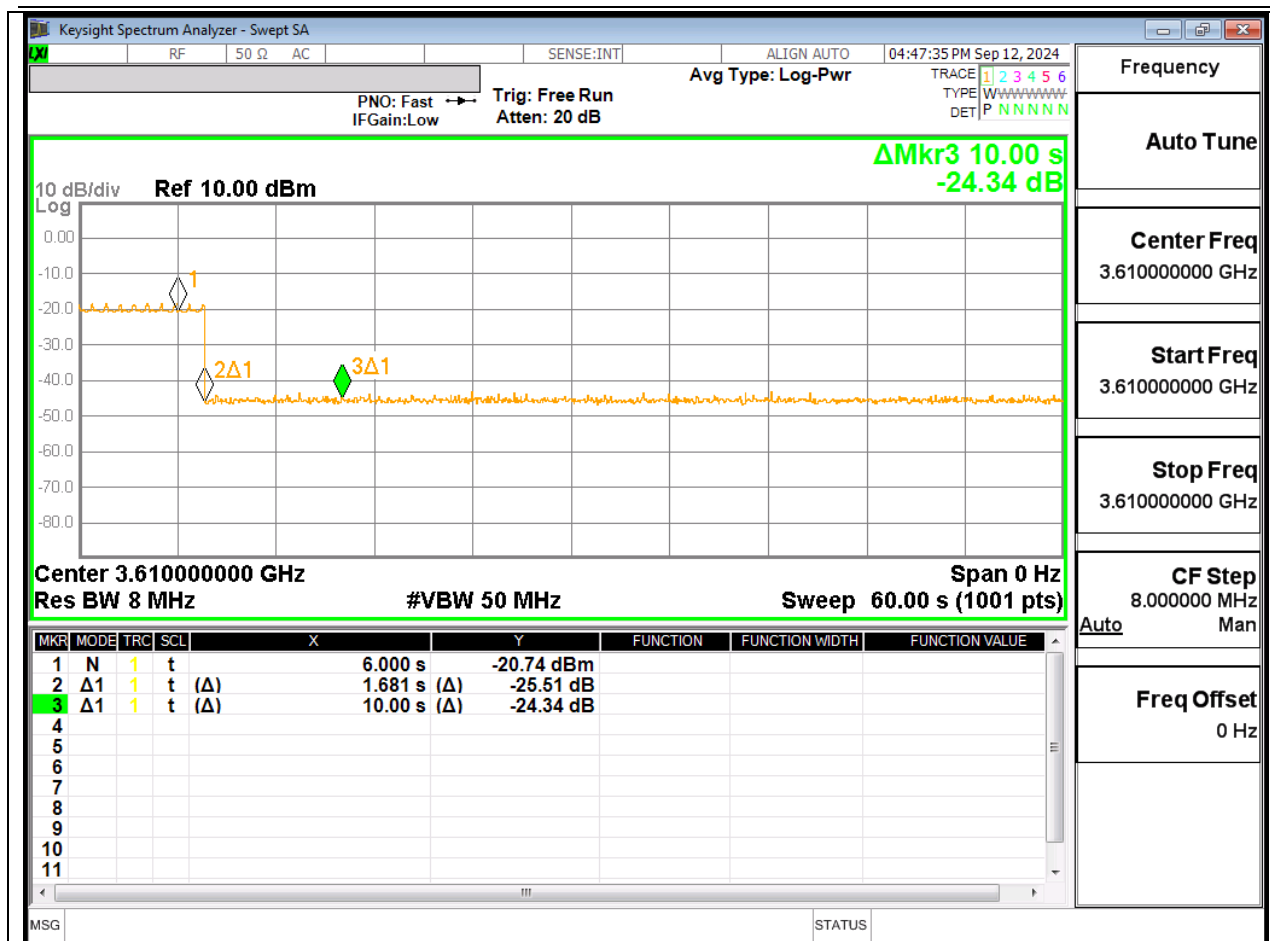
Marker 1: Authorized CBSD sends a signal to stop transmission.

Marker 2-1 Delta: Time elapsed since signal to stop transmission. EUD has stopped transmission.

Marker 3-1 Delta: 10 seconds has elapsed since CBSD has sent a signal to stop transmission to EUT.

8.7.2. END USER DEVICE CONFIGURATION 2





Stop Operation Within 10 second Mode

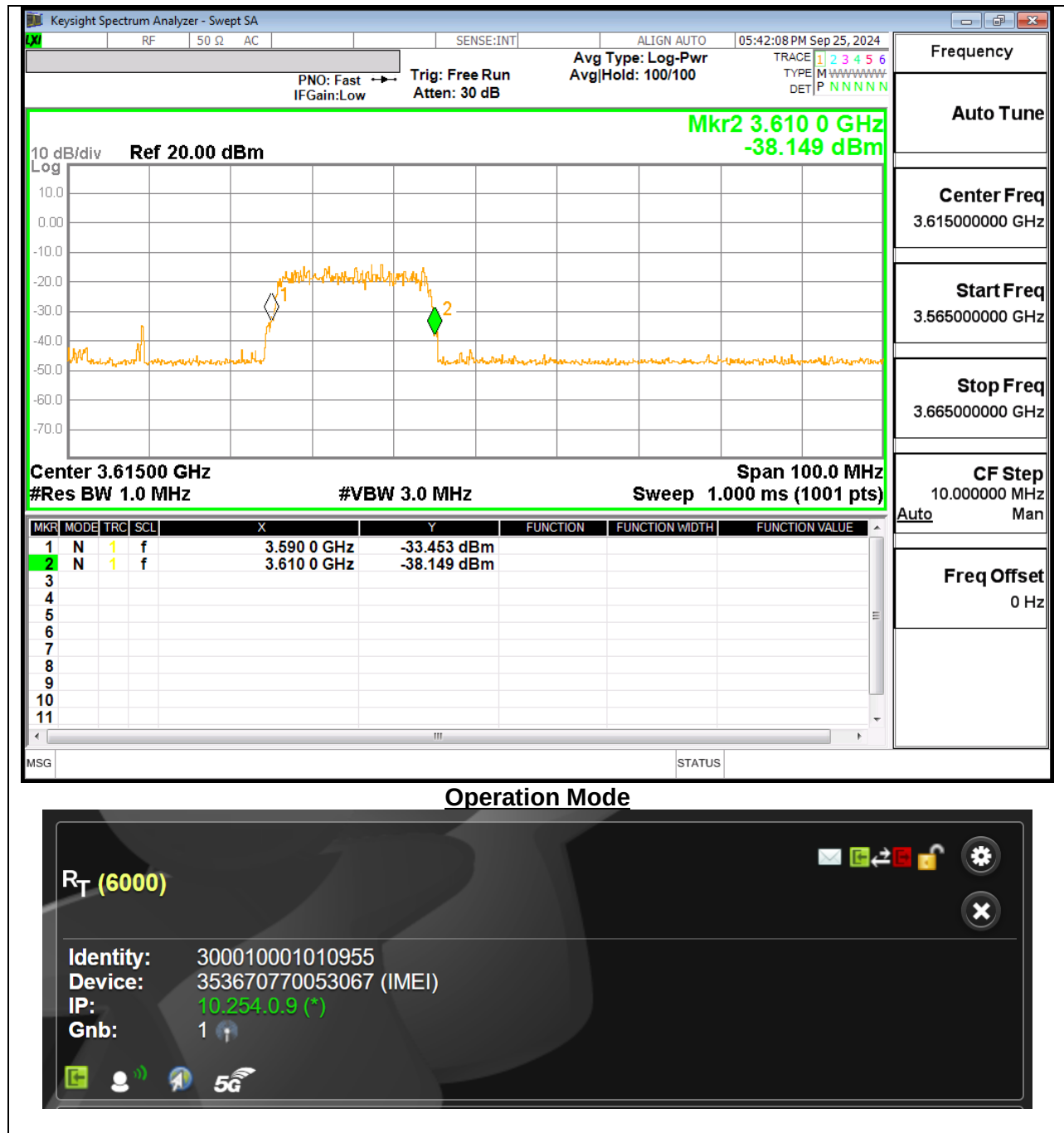
NOTE:

Marker 1: Authorized CBSD sends a signal to stop transmission.

Marker 2-1 Delta: Time elapsed since signal to stop transmission. EUD has stopped transmission.

Marker 3-1 Delta: 10 seconds has elapsed since CBSD has sent a signal to stop transmission to EUT.

8.7.3. END USER DEVICE CONFIGURATION 3





Stop Operation Within 10 second Mode

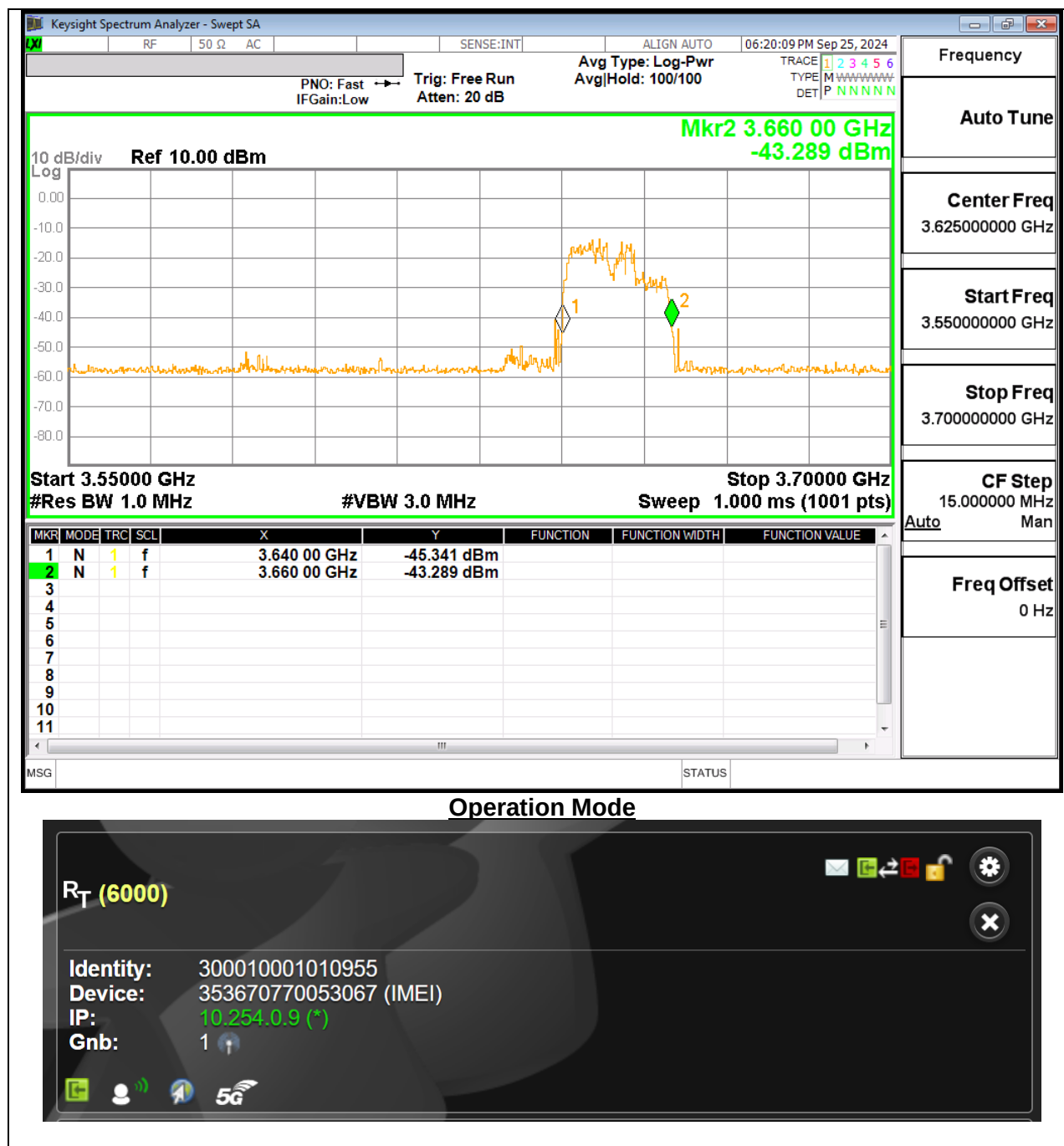
NOTE:

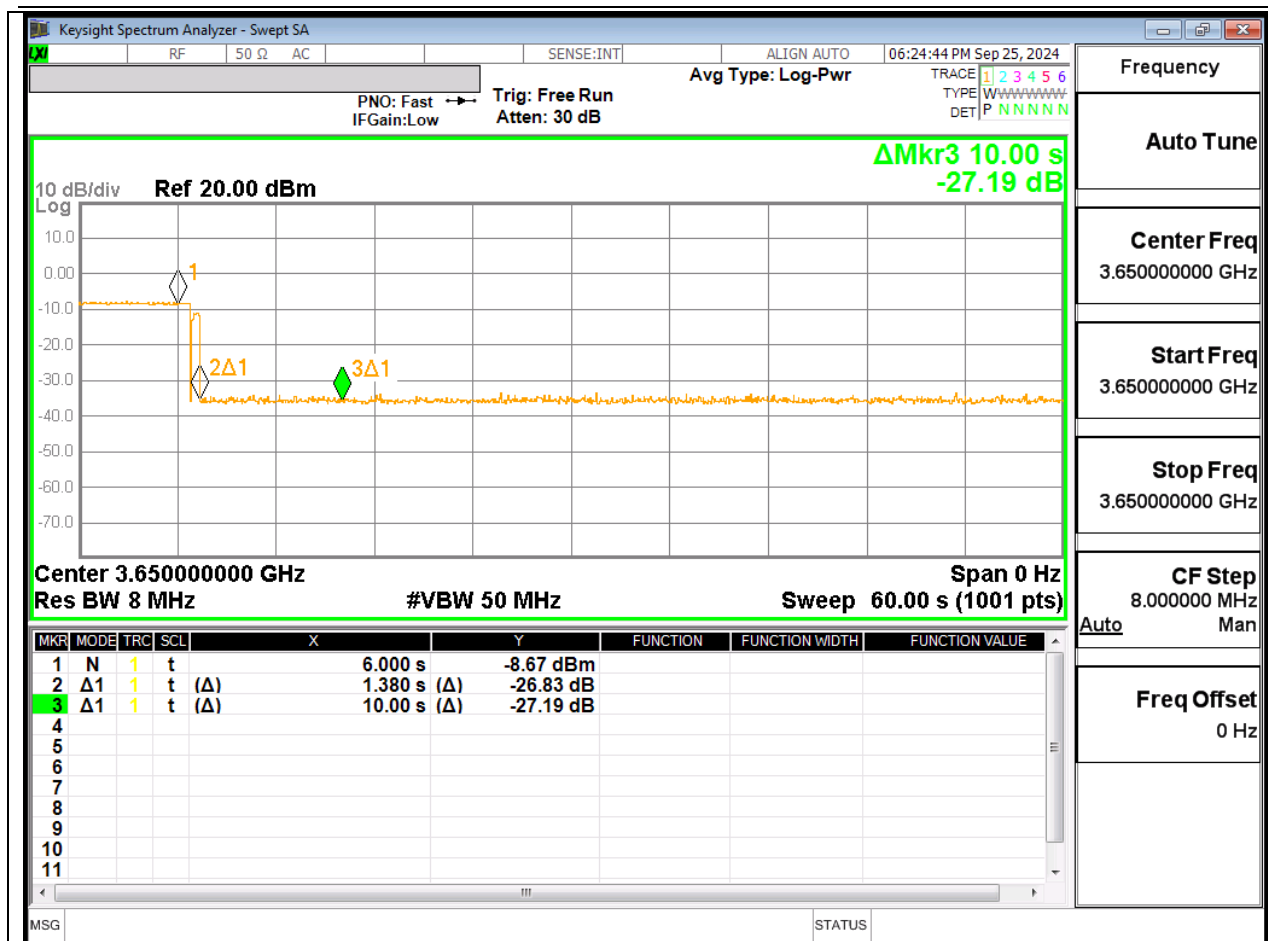
Marker 1: Authorized CBSD sends a signal to stop transmission.

Marker 2-1 Delta: Time elapsed since signal to stop transmission. EUD has stopped transmission.

Marker 3-1 Delta: 10 seconds has elapsed since CBSD has sent a signal to stop transmission to EUT.

8.7.4. END USER DEVICE CONFIGURATION 4





Stop Operation Within 10 second Mode

NOTE:

Marker 1: Authorized CBSD sends a signal to stop transmission.

Marker 2-1 Delta: Time elapsed since signal to stop transmission. EUD has stopped transmission.

Marker 3-1 Delta: 10 seconds has elapsed since CBSD has sent a signal to stop transmission to EUT.

9. RADIATED RESULTS

9.1. RADIATED POWER (EIRP)

RULE PART(S)

FCC: §96.41(b)

LIMITS

§96.41(b) 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.

Device	Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a

TEST PROCEDURE

ANSI / TIA / EIA 603 E Clause 2.2.17; ESU40 setting reference to 971168 D01 v03r01

For radiated output power measurement with a ESU40:

- Set the RBW $\geq$ OBW;
- Set VBW $\geq 3 \times$ RBW;
- Set span $\geq 2 \times$ RBW;
- Sweep time = auto couple;
- Detector = rms;
- Ensure that the number of measurement points $\geq 2 \times$ span/RBW;
- Trace mode = Average;

NOTE1

5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

TEST RESULTS

RF Output Power(total power) EIRP results meets Maximum EIRP limit (23 dBm/10MHz) of End User Device.

9.1.1. EIRP Results

LTE Band 48 (ANT E)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	3560.00	14.79	H	6.26	10.80	19.33	85.70	23.00	-3.67	1/49
		3625.00	14.74	H	6.32	10.73	19.15	82.22	23.00	-3.85	1/49
		3690.00	15.66	H	6.38	10.59	19.87	97.05	23.00	-3.13	1/49
	16-QAM	3560.00	14.89	H	6.26	10.80	19.43	87.70	23.00	-3.57	1/0
		3625.00	14.75	H	6.32	10.73	19.16	82.41	23.00	-3.84	1/0
		3690.00	15.49	H	6.38	10.59	19.70	93.33	23.00	-3.30	1/0
15	QPSK	3557.50	14.81	H	6.26	10.80	19.36	86.30	23.00	-3.64	1/74
		3625.00	14.46	H	6.32	10.73	18.87	77.09	23.00	-4.13	1/37
		3692.50	15.46	H	6.38	10.59	19.67	92.68	23.00	-3.33	1/37
	16-QAM	3557.50	14.85	H	6.26	10.80	19.40	87.10	23.00	-3.60	1/37
		3625.00	14.58	H	6.32	10.73	18.99	79.25	23.00	-4.01	1/0
		3692.50	15.27	H	6.38	10.59	19.48	88.72	23.00	-3.52	1/0
10	QPSK	3555.00	14.79	H	6.25	10.80	19.33	85.70	23.00	-3.67	1/49
		3625.00	14.20	H	6.32	10.73	18.61	72.61	23.00	-4.39	1/49
		3695.00	15.43	H	6.38	10.58	19.63	91.83	23.00	-3.37	1/0
	16-QAM	3555.00	14.19	H	6.25	10.80	18.73	74.64	23.00	-4.27	1/49
		3625.00	14.56	H	6.32	10.73	18.97	78.89	23.00	-4.03	1/49
		3695.00	15.43	H	6.38	10.58	19.63	91.83	23.00	-3.37	1/0
5	QPSK	3552.50	14.63	H	6.25	10.80	19.18	82.79	23.00	-3.82	1/24
		3625.00	14.53	H	6.32	10.73	18.94	78.34	23.00	-4.06	1/0
		3697.50	15.47	H	6.38	10.57	19.65	92.26	23.00	-3.35	1/12
	16-QAM	3552.50	14.00	H	6.25	10.80	18.55	71.61	23.00	-4.45	1/12
		3625.00	14.80	H	6.32	10.73	19.21	83.37	23.00	-3.79	1/12
		3697.50	15.40	H	6.38	10.57	19.58	90.78	23.00	-3.42	1/12

LTE Band 48C(UL CA) (ANT E)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB	
											PCC	SCC
40	QPSK	3569.90	10.24	H	6.27	10.80	14.77	30.02	23.00	-8.23	1/99	1/0
		3625.00	9.37	H	6.32	10.73	13.78	23.88	23.00	-9.22	1/99	1/0
		3680.10	9.68	H	6.37	10.61	13.92	24.66	23.00	-9.08	1/99	1/0
	16-QAM	3569.90	10.14	H	6.27	10.80	14.67	29.33	23.00	-8.33	1/99	1/0
		3625.00	9.03	H	6.32	10.73	13.44	22.08	23.00	-9.56	1/99	1/0
		3680.10	9.65	H	6.37	10.61	13.89	24.49	23.00	-9.11	1/99	1/0

NR Band n48 (ANT E)

DFT-s_OFDM

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
40	QPSK	3570.00	15.89	H	6.27	10.80	20.42	110.15	23.00	-2.58	1/104
		3625.00	16.55	H	6.32	10.73	20.96	124.74	23.00	-2.04	1/53
		3680.00	17.04	H	6.37	10.61	21.28	134.28	23.00	-1.72	1/53
	16-QAM	3570.00	15.84	H	6.27	10.80	20.37	108.89	23.00	-2.63	1/104
		3625.00	16.51	H	6.32	10.73	20.92	123.59	23.00	-2.08	1/53
		3680.00	16.87	H	6.37	10.61	21.11	129.12	23.00	-1.89	1/53
30	QPSK	3565.00	16.08	H	6.27	10.80	20.62	115.35	23.00	-2.38	1/76
		3625.00	16.24	H	6.32	10.73	20.65	116.14	23.00	-2.35	1/76
		3685.00	16.64	H	6.38	10.60	20.87	122.18	23.00	-2.13	1/39
	16-QAM	3565.00	16.05	H	6.27	10.80	20.59	114.55	23.00	-2.41	1/76
		3625.00	16.15	H	6.32	10.73	20.56	113.76	23.00	-2.44	1/76
		3685.00	16.50	H	6.38	10.60	20.73	118.30	23.00	-2.27	1/39
20	QPSK	3560.00	15.17	H	6.26	10.80	19.71	93.54	23.00	-3.29	1/1
		3625.00	16.64	H	6.32	10.73	21.05	127.35	23.00	-1.95	1/49
		3690.00	16.45	H	6.38	10.59	20.66	116.41	23.00	-2.34	1/49
	16-QAM	3560.00	15.18	H	6.26	10.80	19.72	93.76	23.00	-3.28	1/1
		3625.00	16.62	H	6.32	10.73	21.03	126.77	23.00	-1.97	1/49
		3690.00	16.29	H	6.38	10.59	20.50	112.20	23.00	-2.50	1/49
15	QPSK	3557.50	14.35	H	6.26	10.80	18.90	77.62	23.00	-4.10	1/1
		3625.00	16.18	H	6.32	10.73	20.59	114.55	23.00	-2.41	1/19
		3692.50	16.42	H	6.38	10.59	20.63	115.61	23.00	-2.37	1/19
	16-QAM	3557.50	14.25	H	6.26	10.80	18.80	75.86	23.00	-4.20	1/1
		3625.00	16.05	H	6.32	10.73	20.46	111.17	23.00	-2.54	1/19
		3692.50	16.11	H	6.38	10.59	20.32	107.65	23.00	-2.68	1/19
10	QPSK	3555.00	14.64	H	6.25	10.80	19.18	82.79	23.00	-3.82	1/1
		3625.00	16.56	H	6.32	10.73	20.97	125.03	23.00	-2.03	1/12
		3695.00	15.58	H	6.38	10.58	19.78	95.06	23.00	-3.22	1/12
	16-QAM	3555.00	14.49	H	6.25	10.80	19.03	79.98	23.00	-3.97	1/1
		3625.00	16.47	H	6.32	10.73	20.88	122.46	23.00	-2.12	1/12
		3695.00	15.55	H	6.38	10.58	19.75	94.41	23.00	-3.25	1/12

NR Band n48(SRS1) (ANT G)

BW (MHz)	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
20	3560.01	16.74	H	6.26	10.77	21.25	133.35	23.00	-1.75
	3624.99	14.80	H	6.32	10.80	19.29	84.92	23.00	-3.71
	3690.00	13.16	H	6.38	10.76	17.54	56.75	23.00	-5.46

NR Band n48(SRS2) (ANT D)

BW (MHz)	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
20	3560.01	11.21	V	6.26	10.77	15.72	37.33	23.00	-7.28
	3624.99	12.03	V	6.32	10.80	16.51	44.77	23.00	-6.49
	3690.00	10.22	V	6.38	10.76	14.60	28.84	23.00	-8.40

NR Band n48(SRS3) (ANT F)

BW (MHz)	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
30	3565.02	12.56	H	6.27	10.77	17.07	50.93	23.00	-5.93
	3624.99	11.93	H	6.32	10.80	16.42	43.85	23.00	-6.58
	3684.99	12.91	H	6.38	10.77	17.30	53.70	23.00	-5.70

9.2. RADIATED SPURIOUS EMISSION

RULE PART(S)

FCC: §2.1053 and §96.41(e)

LIMIT

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

TEST PROCEDURE

ANSI / TIA / EIA 603 E Clause 2.2.12; ESU40 setting reference to 971168 D01 v03r01
For peak power measurement with a ESU40:

- a) Set the RBW = 100 kHz for emission below 1GHz and 1MHz for emissions above 1GHz
- b) Set VBW $\geq 3 \times$ RBW;
- c) Sweep time = auto couple;
- d) Detector = rms;
- e) Ensure that the number of measurement points $\geq$ span/RBW;
- f) Trace mode = Average;

NOTE1

LTE: It was tested at 1RB QPSK as worst case (the highest output power and density).
5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

NOTE2

Please refer to section 5.4 for bandwidth and RB setting about LTE, 5G NR band.

NOTE3

For interband ULCA, it was checked in the RSE considering intermodulation, but no additional spurious emissions were founded.

RESULTS

See the following pages.

9.2.1. SPURIOUS RADIATION PLOTS

LTE Band 48

20 MHz QPSK ANT E	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																																																																																																																																																							
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	Test Votage:		AC 120 V, 60 Hz																																																																																																																																																																																																																																																																																																																																																																					
	<table><thead><tr><th>f MHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr></thead><tbody><tr><td colspan="10">Low Ch, 3560MHz</td></tr><tr><td>7120.00</td><td>-17.3</td><td>V</td><td>3.0</td><td>43.2</td><td>1.0</td><td>-59.5</td><td>-40.0</td><td>-19.5</td><td></td></tr><tr><td>10680.00</td><td>-18.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-58.2</td><td>-40.0</td><td>-18.2</td><td></td></tr><tr><td>14240.00</td><td>-15.7</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-54.8</td><td>-40.0</td><td>-14.8</td><td></td></tr><tr><td>17800.00</td><td>-15.9</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-55.6</td><td>-40.0</td><td>-15.6</td><td></td></tr><tr><td>21360.00</td><td>-17.6</td><td>V</td><td>3.0</td><td>35.7</td><td>1.0</td><td>-52.4</td><td>-40.0</td><td>-12.4</td><td></td></tr><tr><td>7120.00</td><td>-17.9</td><td>H</td><td>3.0</td><td>43.2</td><td>1.0</td><td>-60.1</td><td>-40.0</td><td>-20.1</td><td></td></tr><tr><td>10680.00</td><td>-18.3</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-58.3</td><td>-40.0</td><td>-18.3</td><td></td></tr><tr><td>14240.00</td><td>-16.6</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-55.6</td><td>-40.0</td><td>-15.6</td><td></td></tr><tr><td>17800.00</td><td>-16.0</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-55.6</td><td>-40.0</td><td>-15.6</td><td></td></tr><tr><td>21360.00</td><td>-16.6</td><td>H</td><td>3.0</td><td>35.7</td><td>1.0</td><td>-51.4</td><td>-40.0</td><td>-11.4</td><td></td></tr><tr><td colspan="10">Mid Ch, 3625MHz</td></tr><tr><td>7250.00</td><td>-16.1</td><td>V</td><td>3.0</td><td>43.1</td><td>1.0</td><td>-58.2</td><td>-40.0</td><td>-18.2</td><td></td></tr><tr><td>10875.00</td><td>-17.2</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-57.0</td><td>-40.0</td><td>-17.0</td><td></td></tr><tr><td>14500.00</td><td>-16.3</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-55.4</td><td>-40.0</td><td>-15.4</td><td></td></tr><tr><td>18125.00</td><td>-13.3</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-52.1</td><td>-40.0</td><td>-12.1</td><td></td></tr><tr><td>21750.00</td><td>-17.5</td><td>V</td><td>3.0</td><td>35.3</td><td>1.0</td><td>-51.7</td><td>-40.0</td><td>-11.7</td><td></td></tr><tr><td>7250.00</td><td>-18.3</td><td>H</td><td>3.0</td><td>43.1</td><td>1.0</td><td>-60.5</td><td>-40.0</td><td>-20.5</td><td></td></tr><tr><td>10875.00</td><td>-17.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-57.3</td><td>-40.0</td><td>-17.3</td><td></td></tr><tr><td>14500.00</td><td>-17.2</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-56.3</td><td>-40.0</td><td>-16.3</td><td></td></tr><tr><td>18125.00</td><td>-13.2</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-52.0</td><td>-40.0</td><td>-12.0</td><td></td></tr><tr><td>21750.00</td><td>-17.5</td><td>H</td><td>3.0</td><td>35.3</td><td>1.0</td><td>-51.7</td><td>-40.0</td><td>-11.7</td><td></td></tr><tr><td colspan="10">High Ch, 3690MHz</td></tr><tr><td>7380.00</td><td>-17.7</td><td>V</td><td>3.0</td><td>43.0</td><td>1.0</td><td>-59.7</td><td>-40.0</td><td>-19.7</td><td></td></tr><tr><td>11070.00</td><td>-13.6</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.3</td><td>-40.0</td><td>-13.3</td><td></td></tr><tr><td>14760.00</td><td>-14.2</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-53.3</td><td>-40.0</td><td>-13.3</td><td></td></tr><tr><td>18450.00</td><td>-13.1</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-51.5</td><td>-40.0</td><td>-11.5</td><td></td></tr><tr><td>22140.00</td><td>-18.2</td><td>V</td><td>3.0</td><td>35.1</td><td>1.0</td><td>-52.3</td><td>-40.0</td><td>-12.3</td><td></td></tr><tr><td>7380.00</td><td>-17.5</td><td>H</td><td>3.0</td><td>43.0</td><td>1.0</td><td>-59.6</td><td>-40.0</td><td>-19.6</td><td></td></tr><tr><td>11070.00</td><td>-14.5</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.2</td><td>-40.0</td><td>-14.2</td><td></td></tr><tr><td>14760.00</td><td>-13.3</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-52.4</td><td>-40.0</td><td>-12.4</td><td></td></tr><tr><td>18450.00</td><td>-13.0</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-51.4</td><td>-40.0</td><td>-11.4</td><td></td></tr><tr><td>22140.00</td><td>-18.4</td><td>H</td><td>3.0</td><td>35.1</td><td>1.0</td><td>-52.5</td><td>-40.0</td><td>-12.5</td><td></td></tr><tr><td colspan="10"></td></tr></tbody></table>										f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, 3560MHz										7120.00	-17.3	V	3.0	43.2	1.0	-59.5	-40.0	-19.5		10680.00	-18.2	V	3.0	41.0	1.0	-58.2	-40.0	-18.2		14240.00	-15.7	V	3.0	40.1	1.0	-54.8	-40.0	-14.8		17800.00	-15.9	V	3.0	40.6	1.0	-55.6	-40.0	-15.6		21360.00	-17.6	V	3.0	35.7	1.0	-52.4	-40.0	-12.4		7120.00	-17.9	H	3.0	43.2	1.0	-60.1	-40.0	-20.1		10680.00	-18.3	H	3.0	41.0	1.0	-58.3	-40.0	-18.3		14240.00	-16.6	H	3.0	40.1	1.0	-55.6	-40.0	-15.6		17800.00	-16.0	H	3.0	40.6	1.0	-55.6	-40.0	-15.6		21360.00	-16.6	H	3.0	35.7	1.0	-51.4	-40.0	-11.4		Mid Ch, 3625MHz										7250.00	-16.1	V	3.0	43.1	1.0	-58.2	-40.0	-18.2		10875.00	-17.2	V	3.0	40.8	1.0	-57.0	-40.0	-17.0		14500.00	-16.3	V	3.0	40.1	1.0	-55.4	-40.0	-15.4		18125.00	-13.3	V	3.0	39.8	1.0	-52.1	-40.0	-12.1		21750.00	-17.5	V	3.0	35.3	1.0	-51.7	-40.0	-11.7		7250.00	-18.3	H	3.0	43.1	1.0	-60.5	-40.0	-20.5		10875.00	-17.5	H	3.0	40.8	1.0	-57.3	-40.0	-17.3		14500.00	-17.2	H	3.0	40.1	1.0	-56.3	-40.0	-16.3		18125.00	-13.2	H	3.0	39.8	1.0	-52.0	-40.0	-12.0		21750.00	-17.5	H	3.0	35.3	1.0	-51.7	-40.0	-11.7		High Ch, 3690MHz										7380.00	-17.7	V	3.0	43.0	1.0	-59.7	-40.0	-19.7		11070.00	-13.6	V	3.0	40.7	1.0	-53.3	-40.0	-13.3		14760.00	-14.2	V	3.0	40.1	1.0	-53.3	-40.0	-13.3		18450.00	-13.1	V	3.0	39.4	1.0	-51.5	-40.0	-11.5		22140.00	-18.2	V	3.0	35.1	1.0	-52.3	-40.0	-12.3		7380.00	-17.5	H	3.0	43.0	1.0	-59.6	-40.0	-19.6		11070.00	-14.5	H	3.0	40.7	1.0	-54.2	-40.0	-14.2		14760.00	-13.3	H	3.0	40.1	1.0	-52.4	-40.0	-12.4		18450.00	-13.0	H	3.0	39.4	1.0	-51.4	-40.0	-11.4		22140.00	-18.4	H	3.0	35.1	1.0	-52.5	-40.0	-12.5											
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	14240.00	-15.7	V	3.0	40.1	1.0	-54.8	-40.0	-14.8																																																																																																																																																																																																																																																																																																																																																															
	17800.00	-15.9	V	3.0	40.6	1.0	-55.6	-40.0	-15.6																																																																																																																																																																																																																																																																																																																																																															
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	18125.00	-13.3	V	3.0	39.8	1.0	-52.1	-40.0	-12.1																																																																																																																																																																																																																																																																																																																																																															
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NR Band n48

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4791440365							
Date:		2024-10-03							
Test Engineer:		26087							
Configuration:		EUT / AC Adapter, Z-Position							
Location:		Chamber 2							
Mode:		5G NR_QPSK NR n48 Harmonics, 40MHz Bandwidth							
Test Voltage:		AC 120 V, 60 Hz							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 3570MHz									
7140.00	-17.2	V	3.0	43.2	1.0	-59.4	-40.0	-19.4	
10710.00	-19.8	V	3.0	41.0	1.0	-59.8	-40.0	-19.8	
14280.00	-17.0	V	3.0	40.1	1.0	-56.1	-40.0	-16.1	
17850.00	-15.3	V	3.0	40.6	1.0	-54.9	-40.0	-14.9	
21420.00	-17.5	V	3.0	35.7	1.0	-52.2	-40.0	-12.2	
7140.00	-19.3	H	3.0	43.2	1.0	-61.5	-40.0	-21.5	
10710.00	-20.0	H	3.0	41.0	1.0	-60.0	-40.0	-20.0	
14280.00	-17.6	H	3.0	40.1	1.0	-56.6	-40.0	-16.6	
17850.00	-16.2	H	3.0	40.6	1.0	-55.8	-40.0	-15.8	
21420.00	-17.4	H	3.0	35.7	1.0	-52.1	-40.0	-12.1	
Mid Ch, 3625MHz									
7250.00	-15.5	V	3.0	43.1	1.0	-57.6	-40.0	-17.6	
10875.00	-18.3	V	3.0	40.8	1.0	-58.1	-40.0	-18.1	
14500.00	-16.7	V	3.0	40.1	1.0	-55.8	-40.0	-15.8	
18125.00	-13.8	V	3.0	39.8	1.0	-52.6	-40.0	-12.6	
21750.00	-17.7	V	3.0	35.3	1.0	-52.0	-40.0	-12.0	
7250.00	-18.3	H	3.0	43.1	1.0	-60.5	-40.0	-20.5	
10875.00	-19.6	H	3.0	40.8	1.0	-59.4	-40.0	-19.4	
14500.00	-17.0	H	3.0	40.1	1.0	-56.0	-40.0	-16.0	
18125.00	-13.6	H	3.0	39.8	1.0	-52.4	-40.0	-12.4	
21750.00	-17.6	H	3.0	35.3	1.0	-51.8	-40.0	-11.8	
High Ch, 3680MHz									
7360.00	-18.5	V	3.0	43.0	1.0	-60.5	-40.0	-20.5	
11040.00	-18.2	V	3.0	40.7	1.0	-57.9	-40.0	-17.9	
14720.00	-16.8	V	3.0	40.1	1.0	-55.9	-40.0	-15.9	
18400.00	-12.8	V	3.0	39.5	1.0	-51.2	-40.0	-11.2	
22080.00	-18.5	V	3.0	35.0	1.0	-52.5	-40.0	-12.5	
7360.00	-19.4	H	3.0	43.0	1.0	-61.5	-40.0	-21.5	
11040.00	-17.7	H	3.0	40.7	1.0	-57.4	-40.0	-17.4	
14720.00	-17.1	H	3.0	40.1	1.0	-56.2	-40.0	-16.2	
18400.00	-12.9	H	3.0	39.5	1.0	-51.4	-40.0	-11.4	
22080.00	-18.7	H	3.0	35.0	1.0	-52.8	-40.0	-12.8	

20 MHz ANT G SRS1	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4791440365									
	Date: 2024-10-04									
	Test Engineer: 28775									
	Configuration: EUT / AC Adapter, Y-Position									
	Location: Chamber 1									
	Mode: 5G NR n48(SRS) Harmonics, 20MHz Bandwidth									
	Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 3560MHz									
	7120.00	-17.5	V	3.0	45.1	1.0	-61.7	-40.0	-21.7	
	10680.00	-17.3	V	3.0	43.5	1.0	-59.8	-40.0	-19.8	
	14240.00	-16.5	V	3.0	44.4	1.0	-59.9	-40.0	-19.9	
	7120.00	-17.4	H	3.0	45.1	1.0	-61.5	-40.0	-21.5	
	10680.00	-17.1	H	3.0	43.5	1.0	-59.6	-40.0	-19.6	
	14240.00	-16.3	H	3.0	44.4	1.0	-59.8	-40.0	-19.8	
	Mid Ch, 3625MHz									
	7250.00	-17.0	V	3.0	45.1	1.0	-61.1	-40.0	-21.1	
	10875.00	-18.3	V	3.0	43.4	1.0	-60.7	-40.0	-20.7	
	14500.00	-16.3	V	3.0	44.6	1.0	-59.8	-40.0	-19.8	
	7250.00	-17.1	H	3.0	45.1	1.0	-61.2	-40.0	-21.2	
	10875.00	-18.1	H	3.0	43.4	1.0	-60.5	-40.0	-20.5	
	14500.00	-16.2	H	3.0	44.6	1.0	-59.8	-40.0	-19.8	
High Ch, 3690MHz										
7380.00	-17.4	V	3.0	45.0	1.0	-61.4	-40.0	-21.4		
11070.00	-18.1	V	3.0	43.4	1.0	-60.5	-40.0	-20.5		
14760.00	-16.1	V	3.0	44.7	1.0	-59.9	-40.0	-19.9		
7380.00	-17.4	H	3.0	45.0	1.0	-61.4	-40.0	-21.4		
11070.00	-17.8	H	3.0	43.4	1.0	-60.2	-40.0	-20.2		
14760.00	-16.0	H	3.0	44.7	1.0	-59.7	-40.0	-19.7		
20 MHz ANT D SRS2	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4791440365									
	Date: 2024-10-04									
	Test Engineer: 28775									
	Configuration: EUT / AC Adapter, Z-Position									
	Location: Chamber 1									
	Mode: 5G NR n48(SRS) Harmonics, 20MHz Bandwidth									
	Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 3560MHz									
	7120.00	-17.9	V	3.0	45.1	1.0	-62.0	-40.0	-22.0	
	10680.00	-17.3	V	3.0	43.5	1.0	-59.8	-40.0	-19.8	
	14240.00	-16.4	V	3.0	44.4	1.0	-59.9	-40.0	-19.9	
	7120.00	-17.7	H	3.0	45.1	1.0	-61.8	-40.0	-21.8	
	10680.00	-17.1	H	3.0	43.5	1.0	-59.6	-40.0	-19.6	
	14240.00	-16.3	H	3.0	44.4	1.0	-59.7	-40.0	-19.7	
	Mid Ch, 3625MHz									
	7250.00	-17.5	V	3.0	45.1	1.0	-61.5	-40.0	-21.5	
	10875.00	-18.3	V	3.0	43.4	1.0	-60.7	-40.0	-20.7	
	14500.00	-16.3	V	3.0	44.6	1.0	-59.9	-40.0	-19.9	
	7250.00	-17.4	H	3.0	45.1	1.0	-61.4	-40.0	-21.4	
	10875.00	-18.2	H	3.0	43.4	1.0	-60.6	-40.0	-20.6	
	14500.00	-16.2	H	3.0	44.6	1.0	-59.8	-40.0	-19.8	
High Ch, 3690MHz										
7380.00	-17.6	V	3.0	45.0	1.0	-61.6	-40.0	-21.6		
11070.00	-18.0	V	3.0	43.4	1.0	-60.4	-40.0	-20.4		
14760.00	-16.2	V	3.0	44.7	1.0	-59.9	-40.0	-19.9		
7380.00	-17.3	H	3.0	45.0	1.0	-61.3	-40.0	-21.3		
11070.00	-17.9	H	3.0	43.4	1.0	-60.3	-40.0	-20.3		
14760.00	-16.0	H	3.0	44.7	1.0	-59.8	-40.0	-19.8		

30 MHz ANT F SRS3	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, 3565MHz										7130.00	-17.9	V	3.0	45.1	1.0	-62.0	-40.0	-22.0		10695.00	-17.3	V	3.0	43.5	1.0	-59.8	-40.0	-19.8		14260.00	-16.3	V	3.0	44.4	1.0	-59.7	-40.0	-19.7		7130.00	-17.6	H	3.0	45.1	1.0	-61.7	-40.0	-21.7		10695.00	-17.1	H	3.0	43.5	1.0	-59.5	-40.0	-19.5		14260.00	-16.2	H	3.0	44.4	1.0	-59.6	-40.0	-19.6		Mid Ch, 3625MHz										7250.00	-17.4	V	3.0	45.1	1.0	-61.5	-40.0	-21.5		10875.00	-18.2	V	3.0	43.4	1.0	-60.7	-40.0	-20.7		14500.00	-16.3	V	3.0	44.6	1.0	-59.8	-40.0	-19.8		7250.00	-17.2	H	3.0	45.1	1.0	-61.3	-40.0	-21.3		10875.00	-18.1	H	3.0	43.4	1.0	-60.5	-40.0	-20.5		14500.00	-16.1	H	3.0	44.6	1.0	-59.7	-40.0	-19.7		High Ch, 3685MHz										7370.00	-17.3	V	3.0	45.0	1.0	-61.3	-40.0	-21.3		11055.00	-17.9	V	3.0	43.4	1.0	-60.3	-40.0	-20.3		14740.00	-16.1	V	3.0	44.7	1.0	-59.8	-40.0	-19.8		7370.00	-17.3	H	3.0	45.0	1.0	-61.3	-40.0	-21.3		11055.00	-17.8	H	3.0	43.4	1.0	-60.2	-40.0	-20.2		14740.00	-16.0	H	3.0	44.7	1.0	-59.7	-40.0	-19.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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