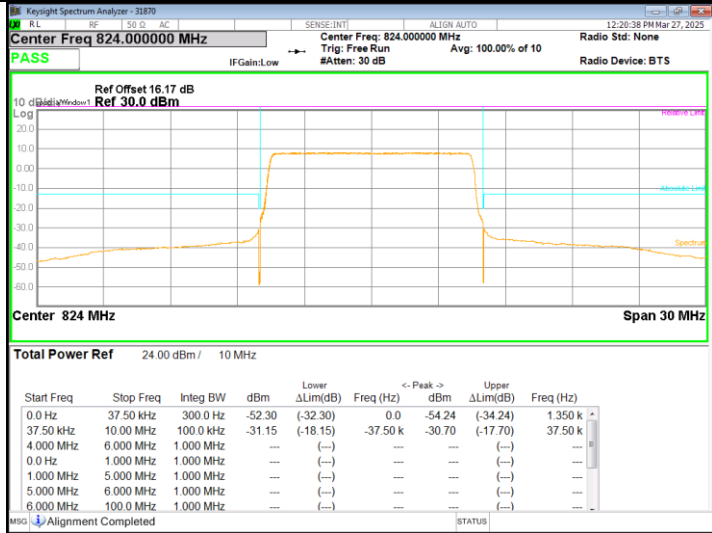
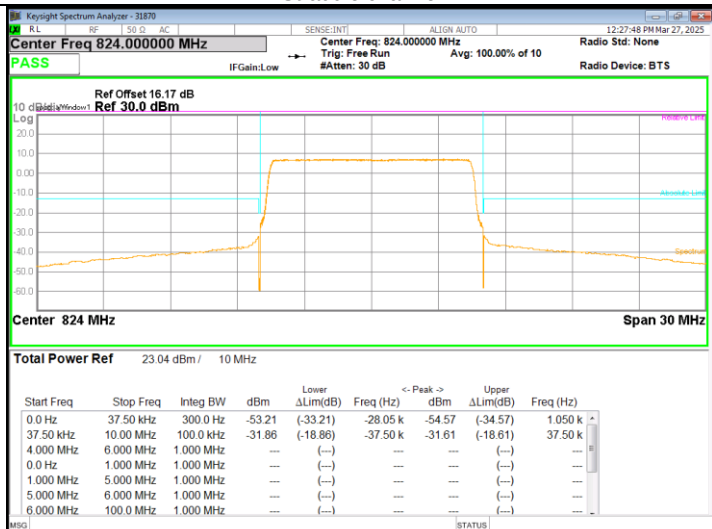


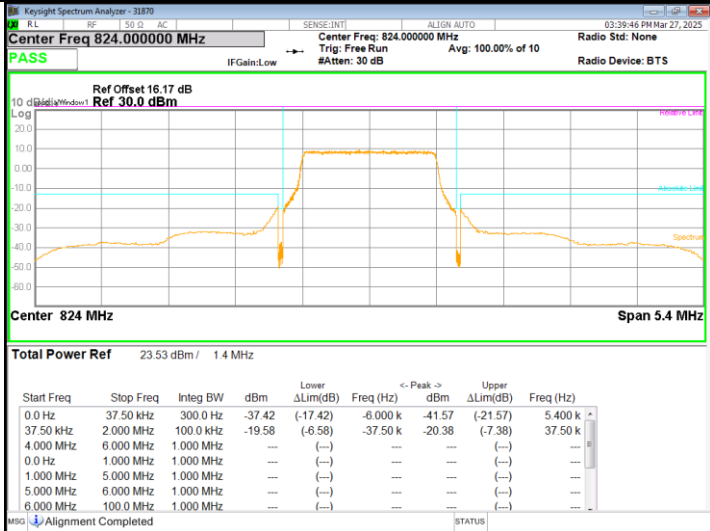
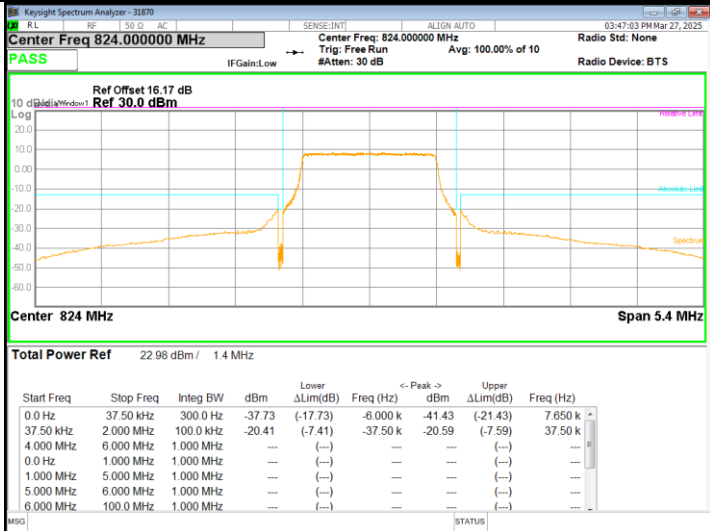
LTE Band 26 (Straddle) Full RB



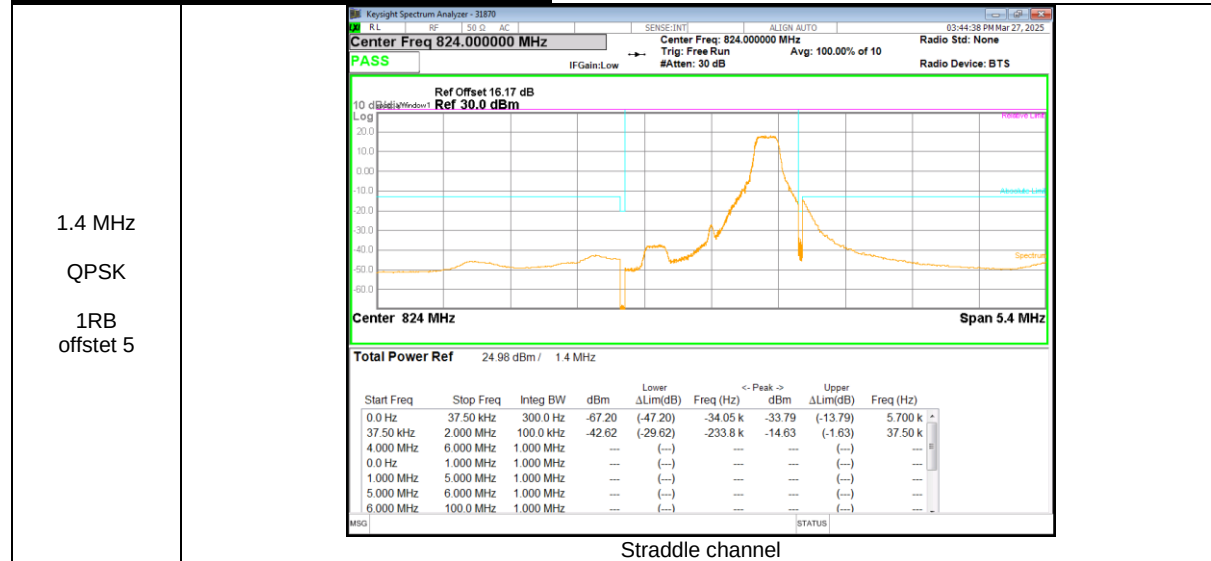
10 MHz QPSK FRB	 Center Freq 824.000000 MHz Ref Offset 16.17 dB Ref 30.0 dBm Center 824 MHz Span 30 MHz Total Power Ref 24.00 dBm / 10 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Peak Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Upper Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>37.50 kHz</td><td>300.0 Hz</td><td>-52.30</td><td>(-32.30)</td><td>0.0</td><td>-54.24</td><td>(-34.24)</td><td>1.350 k</td></tr><tr><td>37.50 kHz</td><td>10.00 MHz</td><td>100.0 kHz</td><td>-31.15</td><td>(-18.15)</td><td>-37.50 k</td><td>-30.70</td><td>(-17.70)</td><td>37.50 k</td></tr><tr><td>4.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---</td><td>---</td><td>---</td><td>(---</td><td>---</td></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---</td><td>---</td><td>---</td><td>(---</td><td>---</td></tr><tr><td>1.000 MHz</td><td>5.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---</td><td>---</td><td>---</td><td>(---</td><td>---</td></tr><tr><td>5.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---</td><td>---</td><td>---</td><td>(---</td><td>---</td></tr><tr><td>6.000 MHz</td><td>100.0 MHz</td><td>1.000 MHz</td><td>---</td><td>(---</td><td>---</td><td>---</td><td>(---</td><td>---</td></tr></table> Alignment Completed Straddle channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	37.50 kHz	300.0 Hz	-52.30	(-32.30)	0.0	-54.24	(-34.24)	1.350 k	37.50 kHz	10.00 MHz	100.0 kHz	-31.15	(-18.15)	-37.50 k	-30.70	(-17.70)	37.50 k	4.000 MHz	6.000 MHz	1.000 MHz	---	(---	---	---	(---	---	0.0 Hz	1.000 MHz	1.000 MHz	---	(---	---	---	(---	---	1.000 MHz	5.000 MHz	1.000 MHz	---	(---	---	---	(---	---	5.000 MHz	6.000 MHz	1.000 MHz	---	(---	---	---	(---	---	6.000 MHz	100.0 MHz	1.000 MHz	---	(---	---	---	(---	---
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4.000 MHz	6.000 MHz	1.000 MHz	---	(---	---	---	(---	---																																																																	
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1.000 MHz	5.000 MHz	1.000 MHz	---	(---	---	---	(---	---																																																																	
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10 MHz 16QAM FRB	 Center Freq 824.000000 MHz Ref Offset 16.17 dB Ref 30.0 dBm Center 824 MHz Span 30 MHz Total Power Ref 23.04 dBm / 10 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Peak Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Upper Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>37.50 kHz</td><td>300.0 Hz</td><td>-53.21</td><td>(-33.21)</td><td>-28.05 k</td><td>-54.57</td><td>(-34.57)</td><td>1.050 k</td></tr><tr><td>37.50 kHz</td><td>10.00 MHz</td><td>100.0 kHz</td><td>-31.86</td><td>(-18.86)</td><td>-37.50 k</td><td>-31.61</td><td>(-18.61)</td><td>37.50 k</td></tr><tr><td>4.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---</td><td>---</td><td>---</td><td>(---</td><td>---</td></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---</td><td>---</td><td>---</td><td>(---</td><td>---</td></tr><tr><td>1.000 MHz</td><td>5.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---</td><td>---</td><td>---</td><td>(---</td><td>---</td></tr><tr><td>5.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---</td><td>---</td><td>---</td><td>(---</td><td>---</td></tr><tr><td>6.000 MHz</td><td>100.0 MHz</td><td>1.000 MHz</td><td>---</td><td>(---</td><td>---</td><td>---</td><td>(---</td><td>---</td></tr></table> Straddle channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	37.50 kHz	300.0 Hz	-53.21	(-33.21)	-28.05 k	-54.57	(-34.57)	1.050 k	37.50 kHz	10.00 MHz	100.0 kHz	-31.86	(-18.86)	-37.50 k	-31.61	(-18.61)	37.50 k	4.000 MHz	6.000 MHz	1.000 MHz	---	(---	---	---	(---	---	0.0 Hz	1.000 MHz	1.000 MHz	---	(---	---	---	(---	---	1.000 MHz	5.000 MHz	1.000 MHz	---	(---	---	---	(---	---	5.000 MHz	6.000 MHz	1.000 MHz	---	(---	---	---	(---	---	6.000 MHz	100.0 MHz	1.000 MHz	---	(---	---	---	(---	---
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1.000 MHz	5.000 MHz	1.000 MHz	---	(---	---	---	(---	---																																																																	
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6.000 MHz	100.0 MHz	1.000 MHz	---	(---	---	---	(---	---																																																																	



3 MHz QPSK FRB	Keyight Spectrum Analyzer - 31870 RL SF 500 AC SENSE:INT ALIGN:ALTO 02:51:32 PM Mar 27, 2025 Center Freq 824.000000 MHz Center Freq: 824.000000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 30 dB Radio Device: BTS Ref Offset 16.17 dB Ref 30.0 dBm Log Window1 10 0 -10 -20 -30 -40 -50 -60 dBm
---	---

1.4 MHz QPSK FRB	 Center Freq 824.000000 MHz Ref Offset 16.17 dB Ref 30.0 dBm Center 824 MHz Span 5.4 MHz Total Power Ref 23.53 dBm / 1.4 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak → dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>37.50 kHz</td><td>300.0 Hz</td><td>-37.42</td><td>(-17.42)</td><td>-6.000 k</td><td>-41.57</td><td>(-21.57)</td><td>5.400 k</td></tr><tr><td>37.50 kHz</td><td>2.000 MHz</td><td>100.0 kHz</td><td>-19.58</td><td>(-6.58)</td><td>-37.50 k</td><td>-20.38</td><td>(-7.38)</td><td>37.50 k</td></tr><tr><td>4.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>1.000 MHz</td><td>5.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>5.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>6.000 MHz</td><td>100.0 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr></table> Alignment Completed Straddle channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak → dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	37.50 kHz	300.0 Hz	-37.42	(-17.42)	-6.000 k	-41.57	(-21.57)	5.400 k	37.50 kHz	2.000 MHz	100.0 kHz	-19.58	(-6.58)	-37.50 k	-20.38	(-7.38)	37.50 k	4.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	0.0 Hz	1.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	1.000 MHz	5.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	5.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	6.000 MHz	100.0 MHz	1.000 MHz	---	(---)	---	---	(---)	---
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1.4 MHz 16QAM FRB	 Center Freq 824.000000 MHz Ref Offset 16.17 dB Ref 30.0 dBm Center 824 MHz Span 5.4 MHz Total Power Ref 22.98 dBm / 1.4 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak → dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>37.50 kHz</td><td>300.0 Hz</td><td>-37.73</td><td>(-17.73)</td><td>-6.000 k</td><td>-41.43</td><td>(-21.43)</td><td>7.650 k</td></tr><tr><td>37.50 kHz</td><td>2.000 MHz</td><td>100.0 kHz</td><td>-20.41</td><td>(-7.41)</td><td>-37.50 k</td><td>-20.59</td><td>(-7.59)</td><td>37.50 k</td></tr><tr><td>4.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>0.0 Hz</td><td>1.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>1.000 MHz</td><td>5.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>5.000 MHz</td><td>6.000 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr><tr><td>6.000 MHz</td><td>100.0 MHz</td><td>1.000 MHz</td><td>---</td><td>(---)</td><td>---</td><td>---</td><td>(---)</td><td>---</td></tr></table> Straddle channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak → dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	37.50 kHz	300.0 Hz	-37.73	(-17.73)	-6.000 k	-41.43	(-21.43)	7.650 k	37.50 kHz	2.000 MHz	100.0 kHz	-20.41	(-7.41)	-37.50 k	-20.59	(-7.59)	37.50 k	4.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	0.0 Hz	1.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	1.000 MHz	5.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	5.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---	6.000 MHz	100.0 MHz	1.000 MHz	---	(---)	---	---	(---)	---
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak → dBm	Upper ΔLim(dB)	Freq (Hz)																																																																	
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LTE Band 26 (Straddle) 1 RB (Worst Case)



8.5. CONDUCTED SPURIOUS EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917 and §90.691.

LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

Part 90.691(a):

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. (NOTE : Use 100kHz reference bandwidth)

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

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.

GSM

- a) Set the RBW = 100 kHz for emission below 1 GHz
(Tests were performed 1MHz [Worst case], to sweep 1 time for all frequency range)
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points = Max (40001);
- g) Trace mode = average;
- h) Add duty cycle correction factor (9dB);

WCDMA/LTE/5G NR

- a) Set the RBW = 100 kHz for emission below 1 GHz
(Tests were performed 1MHz [Worst case], to sweep 1 time for all frequency range)
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points = Max (40001);
- g) Trace mode = average;

NOTE1

GSM : It was tested at GPRS as worst case (the highest output power and density).

UMTS: It was tested at REL 99 as worst case (the highest output power and density).

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 bands.

RESULTS

See the following pages.

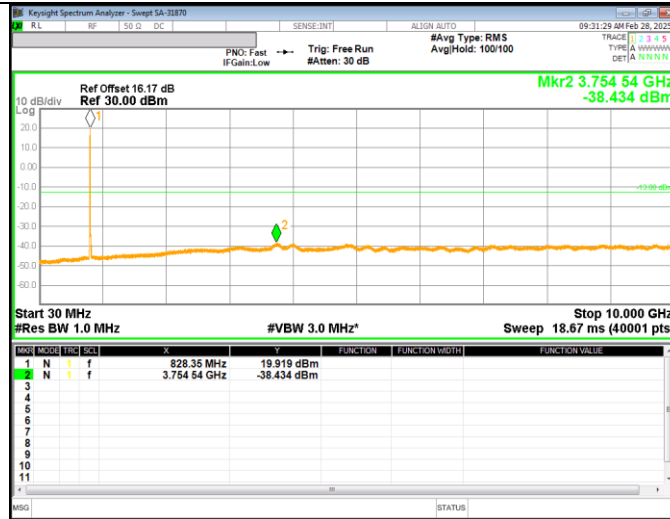
8.5.1. OUT OF BAND EMISSIONS RESULT

GSM 850

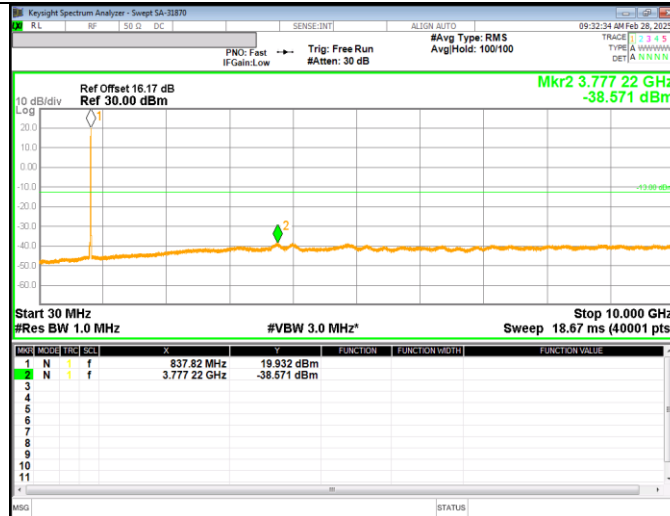


WCDMA B5

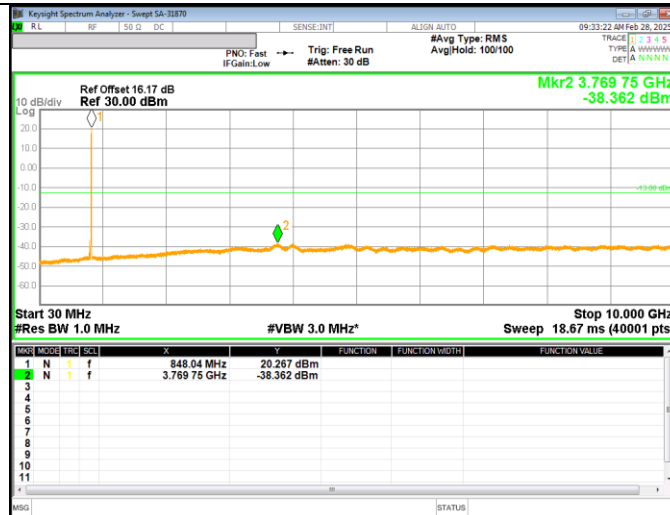
REL 99



Low channel



Mid channel

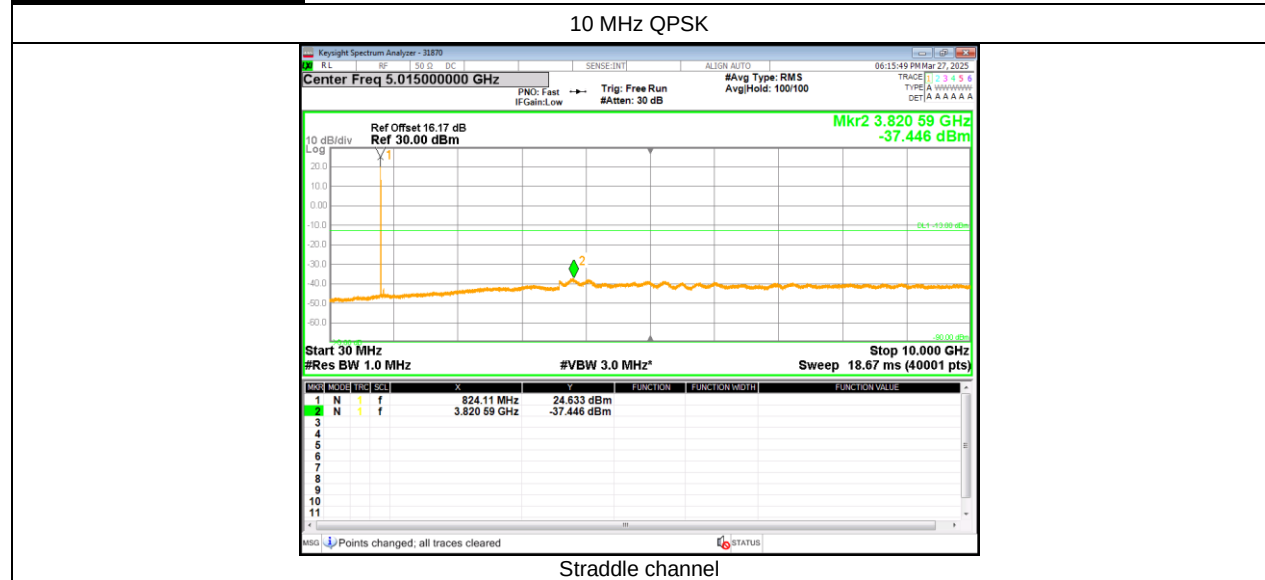


High channel

LTE Band 26 (Part 90)



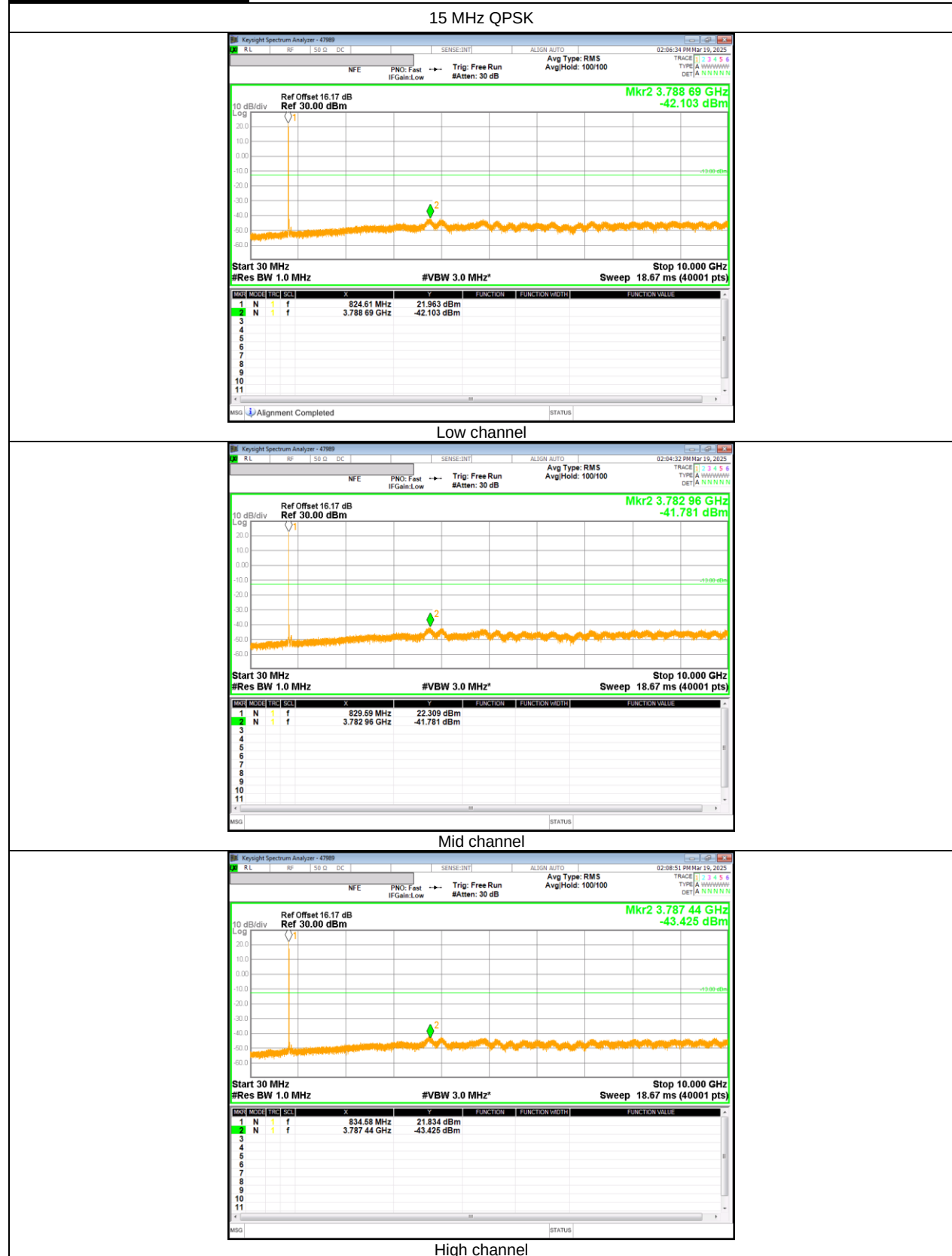
LTE Band 26 (Straddle)



LTE Band 26 (Part 22)



NR Band n5 DFT-s OFDM



8.6. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355 and §90.213

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

§90.213 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

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.

8.6.1. FREQUENCY STABILITY RESULT

GSM 850, Channel 128/251, Frequency 824.2/848.8 MHz

Test Date	2025-03-04
Test Engineer	47989

Reference Frequency : GSM850 Low Channel 824.2 MHz / High Channel 848.8 MHz @ 20°C						
Limit: +- 2.5 ppm =	Low Channel	2060.500	Hz	High Channel	2122.000	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	50	824.20002840	-0.002	848.80002653	-0.003	2.5
3.88	40	824.20002838	-0.002	848.80002842	-0.005	2.5
3.88	30	824.20002912	-0.003	848.80002335	0.001	2.5
3.88	20	824.20002643	0.000	848.80002425	0.000	2.5
3.88	10	824.20002568	0.001	848.80002393	0.000	2.5
3.88	0	824.20002458	0.002	848.80002458	0.000	2.5
3.88	-10	824.20002841	-0.002	848.80002732	-0.004	2.5
3.88	-20	824.20002905	-0.003	848.80002716	-0.003	2.5
3.88	-30	824.20002840	-0.002	848.80002696	-0.003	2.5

Reference Frequency : GSM850 Low Channel 824.2 MHz / High Channel 848.8 MHz @ 20°C						
Limit: +/- 2.5 ppm =	Low Channel	2060.500	Hz	High Channel	2122.000	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	20	824.20002643	0	848.80002425	0	2.5
4.45	20	824.20002770	-0.002	848.80003191	-0.009	2.5
3.70	20	824.20002774	-0.002	848.80002787	-0.004	2.5

WCDMA Band 5

Test Date	2025-03-06
Test Engineer	47989

	Reference Frequency : WCDMA Band 5 Low Channel 826.4 MHz / High Channel 846.6 MHz @ 20°C					
Limit: +- 2.5 ppm =	Low Channel	2066.000	Hz	High Channel	2116.500	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	50	826.40000561	0.002	846.60000713	0.000	2.5
3.88	40	826.40000605	0.001	846.60000688	0.000	2.5
3.88	30	826.40000568	0.002	846.60000602	0.001	2.5
3.88	20	826.40000713	0.000	846.60000715	0.000	2.5
3.88	10	826.40000689	0.000	846.60000708	0.000	2.5
3.88	0	826.40000673	0.000	846.60000695	0.000	2.5
3.88	-10	826.40000711	0.000	846.60000716	0.000	2.5
3.88	-20	826.40000695	0.000	846.60000699	0.000	2.5
3.88	-30	826.40000758	-0.001	846.60000713	0.000	2.5

		Reference Frequency : WCDMA Band 5 Low Channel 826.4 MHz / High Channel 846.6 MHz @ 20°C				
Limit: +/- 2.5 ppm =	Low Channel	2066.000	Hz	High Channel	2116.500	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	20	826.40000713	0	846.60000715	0	2.5
4.45	20	826.40000813	-0.001	846.60001026	-0.004	2.5
3.70	20	826.40000858	-0.002	846.60000910	-0.002	2.5

LTE Band 26

Test Date	2025-03-26
Test Engineer	47989

Reference Frequency : Low Channel 814.7 MHz / High Channel 848.3 MHz @ 20°C							
Limit: +- 2.5 ppm =		Low Channel	2036.750	Hz	High Channel	2120.750	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse					Limit [ppm]
		Low Channel		High Channel			
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]		
3.88	50	814.70000613	-0.001	848.30000692	-0.002		2.5
3.88	40	814.70000567	0.000	848.30000676	-0.002		2.5
3.88	30	814.70000605	-0.001	848.30000613	-0.001		2.5
3.88	20	814.70000528	0.000	848.30000504	0.000		2.5
3.88	10	814.70000595	-0.001	848.30000548	-0.001		2.5
3.88	0	814.70000594	-0.001	848.30000592	-0.001		2.5
3.88	-10	814.70000588	-0.001	848.30000606	-0.001		2.5
3.88	-20	814.70000616	-0.001	848.30000619	-0.001		2.5
3.88	-30	814.70000639	-0.001	848.30000637	-0.002		2.5

Reference Frequency : Low Channel 814.7 MHz / High Channel 848.3 MHz @ 20°C							
Limit: +/- 2.5 ppm =		Low Channel	2036.750	Hz	High Channel	2120.750	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse					Limit [ppm]
		Low Channel		High Channel			
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]		
3.88	20	814.70000528	0		848.30000504	0	2.5
4.45	20	814.70002068	-0.019		848.30002004	-0.018	2.5
3.70	20	814.70002009	-0.018		848.30002162	-0.020	2.5

NR Band n5

Test Date	2025-03-17
Test Engineer	47989

Reference Frequency : Low Channel 826.5 MHz / High Channel 846.5 MHz @ 20°C							
Limit: +/- 2.5 ppm =		Low Channel	2066.250	Hz	High Channel	2116.250	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse					Limit [ppm]
		Low Channel		High Channel			
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]		
3.88	50	826.50007059	0.000	846.50007169	-0.005		2.5
3.88	40	826.50006925	0.002	846.50007203	-0.006		2.5
3.88	30	826.50007168	-0.001	846.50007058	-0.004		2.5
3.88	20	826.50007064	0.000	846.50006714	0.000		2.5
3.88	10	826.50006941	0.001	846.50006848	-0.002		2.5
3.88	0	826.50007045	0.000	846.50006957	-0.003		2.5
3.88	-10	826.50006914	0.002	846.50007048	-0.004		2.5
3.88	-20	826.50007048	0.000	846.50006928	-0.003		2.5
3.88	-30	826.50007153	-0.001	846.50006924	-0.002		2.5

Reference Frequency : Low Channel 826.5 MHz / High Channel 846.5 MHz @ 20°C							
Limit: +/- 2.5 ppm =		Low Channel	2066.250	Hz	High Channel	2116.250	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse					Limit [ppm]
		Low Channel		High Channel			
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]		
3.88	20	826.50007064	0	846.50006714	0		2.5
4.45	20	826.50007181	-0.001	846.50008726	-0.024		2.5
3.70	20	826.50006142	0.011	846.50003927	0.033		2.5

9. RADIATED RESULTS

9.1. RADIATED POWER (ERP)

RULE PART(S)

FCC: §2.1046, §22.913 and §90.635

LIMITS

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

90.635(b) The maximum output power of the transmitter for mobile stations is 100 watts (20dBw).

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13dB.

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:

- a) Set the RBW $\geq 1\%$ to 5% of the OBW;
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span $\geq 2 \times$ to $3 \times$ the OBW.;
- d) Sweep time = auto couple or Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$ for single sweep (automation-compatible) measurement. Transmission period is the on and off time of the transmitter.;
- e) Detector = rms;
- f) Ensure that the number of measurement points $\geq 2 \times \text{span/RBW}$;
- g) Trace mode = average;
- h) If the EUT can be configured to transmit continuously, then set the trigger to free run.
- i) If the EUT cannot be configured to transmit continuously, then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Verify that the sweep time is less than or equal to the transmission burst duration. Time gating can also be used under similar constraints (i.e., configured such that measurement data is collected only during active full-power transmissions).
- j) Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over multiple symbols, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.
- k) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function, with the band/channel limits set equal to the OBW band edges. If the instrument does not have a band or channel power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

NOTE

LTE, 5G NR: The OBW value corresponding to the total channel bandwidth is the OBW of FullRB. Measurements were made with a 1RB configuration (Worst case) over the entire channel bandwidth, and FRB configurations were also reported for the worst BW.

TEST RESULTS

See the following pages.

9.1.1. ERP RESULT

GSM

Band	Mode	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)
GSM 850	GPRS	824.20	33.05	V	3.02	-1.03	29.01	796.16	38.50	-9.49
		836.60	33.10	V	3.04	-0.97	29.09	810.96	38.50	-9.41
		848.80	32.44	V	3.06	-0.91	28.47	703.07	38.50	-10.03
	EGPRS	824.20	27.17	V	3.02	-1.03	23.13	205.59	38.50	-15.37
		836.60	27.51	V	3.04	-0.97	23.50	223.87	38.50	-15.00
		848.80	26.50	V	3.06	-0.91	22.53	179.06	38.50	-15.97

WCDMA

Band	Mode	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)
Band 5	REL99	826.40	24.50	V	3.02	-1.02	20.46	111.17	38.50	-18.04
		836.60	24.41	V	3.04	-0.97	20.40	109.65	38.50	-18.10
		846.60	23.61	V	3.06	-0.92	19.63	91.83	38.50	-18.87
	HSDPA	826.40	22.95	V	3.02	-1.02	18.91	77.80	38.50	-19.59
		836.60	22.88	V	3.04	-0.97	18.87	77.09	38.50	-19.63
		846.60	22.46	V	3.06	-0.92	18.48	70.47	38.50	-20.02

LTE Band 26

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
15	QPSK	821.50	23.97	V	3.01	-1.04	19.91	97.95	50.00	-30.09	1/37
		824.00	23.35	V	3.02	-1.03	19.30	85.11	38.50	-19.20	1/0
		831.50	23.97	V	3.03	-0.99	19.94	98.63	38.50	-18.56	1/0
		836.50	24.03	V	3.04	-0.97	20.02	100.46	38.50	-18.48	1/0
		841.50	24.72	V	3.05	-0.94	20.73	118.30	38.50	-17.77	1/37
	16-QAM	821.50	22.98	V	3.01	-1.04	18.92	77.98	50.00	-31.08	1/37
		824.00	22.17	V	3.02	-1.03	18.12	64.86	38.50	-20.38	1/37
		831.50	22.77	V	3.03	-0.99	18.74	74.82	38.50	-19.76	1/37
		836.50	22.96	V	3.04	-0.97	18.95	78.52	38.50	-19.55	1/37
		841.50	23.62	V	3.05	-0.94	19.63	91.83	38.50	-18.87	1/37
10	QPSK	819.00	24.20	V	3.01	-1.06	20.13	103.04	50.00	-29.87	1/25
		824.00	23.54	V	3.02	-1.03	19.49	88.92	38.50	-19.01	1/25
		829.00	23.92	V	3.03	-1.01	19.89	97.50	38.50	-18.61	1/0
		836.50	23.63	V	3.04	-0.97	19.62	91.62	38.50	-18.88	1/25
		844.00	24.89	V	3.05	-0.93	20.91	123.31	38.50	-17.59	1/0
	16-QAM	819.00	23.00	V	3.01	-1.06	18.93	78.16	50.00	-31.07	1/25
		824.00	22.40	V	3.02	-1.03	18.35	68.39	38.50	-20.15	1/25
		829.00	22.96	V	3.03	-1.01	18.93	78.16	38.50	-19.57	1/0
		836.50	23.46	V	3.04	-0.97	19.45	88.10	38.50	-19.05	1/0
		844.00	23.89	V	3.05	-0.93	19.91	97.95	38.50	-18.59	1/0
5	QPSK	816.50	23.88	V	3.00	-1.07	19.81	104.71	50.00	-29.80	1/12
		821.50	24.26	V	3.01	-1.04	20.20	102.33	50.00	-29.90	1/12
		824.00	24.15	V	3.02	-1.03	20.10	97.50	38.50	-18.61	1/12
		826.50	23.92	V	3.02	-1.02	19.89	99.77	38.50	-18.51	1/12
		836.50	24.00	V	3.04	-0.97	19.99	98.86	38.50	-18.55	1/24
	16-QAM	846.50	23.93	V	3.06	-0.92	19.95	77.45	38.50	-19.61	1/12
		816.50	22.96	V	3.00	-1.07	18.89	78.70	50.00	-31.04	1/12
		821.50	23.02	V	3.01	-1.04	18.96	79.25	50.00	-31.01	1/24
		824.00	23.04	V	3.02	-1.03	18.99	75.68	38.50	-19.71	1/0
		826.50	22.82	V	3.02	-1.02	18.79	92.90	38.50	-18.82	1/0
3	QPSK	836.50	23.69	V	3.04	-0.97	19.68	73.11	38.50	-19.86	1/12
		846.50	22.61	V	3.06	-0.92	18.64	73.11	38.50	-19.86	1/0
		815.50	23.73	V	3.00	-1.07	19.66	92.47	50.00	-30.34	1/8
		822.50	24.07	V	3.01	-1.04	20.02	100.46	50.00	-29.98	1/8
		824.00	23.97	V	3.02	-1.03	19.92	98.17	38.50	-18.58	1/8
	16-QAM	825.50	24.21	V	3.02	-1.02	20.17	103.99	38.50	-18.33	1/8
		836.50	24.25	V	3.04	-0.97	20.24	105.68	38.50	-18.26	1/8
		847.50	24.24	V	3.06	-0.91	20.27	106.41	38.50	-18.23	1/8
		815.50	22.79	V	3.00	-1.07	18.72	74.47	50.00	-31.28	1/14
		822.50	23.15	V	3.01	-1.04	19.10	81.28	50.00	-30.90	1/8
1.4	QPSK	824.00	22.77	V	3.02	-1.03	18.72	74.47	38.50	-19.78	1/14
		825.50	23.13	V	3.02	-1.02	19.09	81.10	38.50	-19.41	1/8
		836.50	23.82	V	3.04	-0.97	19.81	95.72	38.50	-18.69	1/0
		847.50	22.85	V	3.06	-0.91	18.88	77.27	38.50	-19.62	1/8
		814.70	23.78	V	3.00	-1.08	19.71	93.54	50.00	-30.29	1/5
	16-QAM	823.30	24.24	V	3.01	-1.03	20.19	104.47	50.00	-29.81	1/5
		824.00	24.26	V	3.02	-1.03	20.21	104.95	38.50	-18.29	1/5
		824.70	24.33	V	3.02	-1.03	20.29	106.91	38.50	-18.21	1/3
		836.50	24.77	V	3.04	-0.97	20.76	119.12	38.50	-17.74	1/3
		848.30	23.97	V	3.06	-0.91	20.00	100.00	38.50	-18.50	1/3
10	QPSK	814.70	22.72	V	3.00	-1.08	18.65	73.28	50.00	-31.35	1/3
		823.30	23.25	V	3.01	-1.03	19.20	83.18	50.00	-30.80	1/0
		824.00	23.22	V	3.02	-1.03	19.17	82.60	38.50	-19.33	1/3
		824.70	23.22	V	3.02	-1.03	19.18	82.79	38.50	-19.32	1/3
		836.50	23.77	V	3.04	-0.97	19.76	94.62	38.50	-18.74	1/5
	16-QAM	848.30	22.88	V	3.06	-0.91	18.91	77.80	38.50	-19.59	1/5
		819.00	23.15	V	3.01	-1.06	19.08	80.91	50.00	-30.92	50/0
		824.00	22.15	V	3.02	-1.03	18.10	64.57	38.50	-20.40	50/0
		829.00	22.53	V	3.03	-1.01	18.50	70.79	38.50	-20.00	50/0
		836.50	22.86	V	3.04	-0.97	18.85	76.74	38.50	-19.65	50/0

NR Band n5 DFT-s OFDM

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	834.00	23.16	V	3.04	-0.98	19.14	82.04	38.50	-19.36	1/1
		836.50	23.19	V	3.04	-0.97	19.18	82.79	38.50	-19.32	1/1
		839.00	23.36	V	3.04	-0.96	19.36	86.30	38.50	-19.14	1/1
	16-QAM	834.00	21.97	V	3.04	-0.98	17.95	62.37	38.50	-20.55	1/1
		836.50	22.67	V	3.04	-0.97	18.66	73.45	38.50	-19.84	1/1
		839.00	22.63	V	3.04	-0.96	18.63	72.95	38.50	-19.87	1/1
15	QPSK	831.50	24.27	V	3.03	-0.99	20.24	105.68	38.50	-18.26	1/1
		836.50	23.97	V	3.04	-0.97	19.96	99.08	38.50	-18.54	1/1
		841.50	23.85	V	3.05	-0.94	19.86	96.83	38.50	-18.64	1/1
	16-QAM	831.50	23.20	V	3.03	-0.99	19.17	82.60	38.50	-19.33	1/1
		836.50	22.37	V	3.04	-0.97	18.36	68.55	38.50	-20.14	1/1
		841.50	23.00	V	3.05	-0.94	19.01	79.62	38.50	-19.49	1/1
10	QPSK	829.00	24.02	V	3.03	-1.01	19.99	99.77	38.50	-18.51	1/1
		836.50	23.50	V	3.04	-0.97	19.49	88.92	38.50	-19.01	1/1
		844.00	23.53	V	3.05	-0.93	19.55	90.16	38.50	-18.95	1/1
	16-QAM	829.00	22.84	V	3.03	-1.01	18.81	76.03	38.50	-19.69	1/1
		836.50	22.31	V	3.04	-0.97	18.30	67.61	38.50	-20.20	1/1
		844.00	22.32	V	3.05	-0.93	18.34	68.23	38.50	-20.16	1/26
5	QPSK	826.50	23.81	V	3.02	-1.02	19.77	94.84	38.50	-18.73	1/1
		836.50	23.32	V	3.04	-0.97	19.31	85.31	38.50	-19.19	1/1
		846.50	23.39	V	3.06	-0.92	19.42	87.50	38.50	-19.08	1/1
	16-QAM	826.50	22.93	V	3.02	-1.02	18.89	77.45	38.50	-19.61	1/1
		836.50	22.13	V	3.04	-0.97	18.12	64.86	38.50	-20.38	1/1
		846.50	22.49	V	3.06	-0.92	18.52	71.12	38.50	-19.98	1/1
15	QPSK	831.50	23.23	V	3.03	-0.99	19.20	83.18	38.50	-19.30	75/0
		836.50	22.73	V	3.04	-0.97	18.72	74.47	38.50	-19.78	75/0
		841.50	22.62	V	3.05	-0.94	18.63	72.95	38.50	-19.87	75/0
	16-QAM	831.50	21.98	V	3.03	-0.99	17.95	62.37	38.50	-20.55	75/0
		836.50	21.55	V	3.04	-0.97	17.54	56.75	38.50	-20.96	75/0
		841.50	21.91	V	3.05	-0.94	17.92	61.94	38.50	-20.58	75/0

9.2. RADIATED SPURIOUS EMISSION

RULE PART(S)

FCC: §2.1053, §22.917 and §90.691

LIMIT

§22.917(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

§90.691(a):

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. (NOTE : Use 100kHz reference bandwidth)

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

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 1 GHz.
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points $\geq 2 \times$ span/RBW;
- g) Trace mode = average(WCDMA, LTE, 5G NR), Maxhold(GSM);

NOTE1

GSM : It was tested at GPRS as worst case (the highest output power and density).

UMTS: It was tested at REL 99 as worst case (the highest output power and density).

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 bands.

9.2.1. SPURIOUS RADIATION RESULT

GSM850

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4791655852							
Date:		2025-02-25							
Test Engineer:		26087							
Configuration:		EUT / AC Adapter, X-Position							
Location:		Chamber 1							
Mode:		GPRS 850 MHz Harmonics							
Test Votage:		AC 120 V, 60 Hz							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.2MHz									
1648.40	-1.6	V	3.0	43.5	1.0	-44.1	-13.0	-31.1	
2472.60	-2.2	V	3.0	43.8	1.0	-44.9	-13.0	-31.9	
3296.80	-8.9	V	3.0	43.8	1.0	-51.6	-13.0	-38.6	
1648.40	2.8	H	3.0	43.5	1.0	-39.6	-13.0	-26.6	
2472.60	-1.1	H	3.0	43.8	1.0	-43.9	-13.0	-30.9	
3296.80	-8.6	H	3.0	43.8	1.0	-51.4	-13.0	-38.4	
Mid Ch, 836.6MHz									
1673.20	-3.2	V	3.0	43.5	1.0	-45.7	-13.0	-32.7	
2509.80	-2.3	V	3.0	43.7	1.0	-45.0	-13.0	-32.0	
3346.40	-8.6	V	3.0	43.8	1.0	-51.4	-13.0	-38.4	
1673.20	0.7	H	3.0	43.5	1.0	-41.8	-13.0	-28.8	
2509.80	-0.7	H	3.0	43.7	1.0	-43.4	-13.0	-30.4	
3346.40	-8.7	H	3.0	43.8	1.0	-51.6	-13.0	-38.6	
High Ch, 848.8MHz									
1697.60	-6.8	V	3.0	43.5	1.0	-49.3	-13.0	-36.3	
2546.40	-2.7	V	3.0	43.7	1.0	-45.4	-13.0	-32.4	
3395.20	-8.4	V	3.0	43.9	1.0	-51.3	-13.0	-38.3	
1697.60	-2.0	H	3.0	43.5	1.0	-44.5	-13.0	-31.5	
2546.40	-2.7	H	3.0	43.7	1.0	-45.4	-13.0	-32.4	
3395.20	-8.4	H	3.0	43.9	1.0	-51.3	-13.0	-38.3	

WCDMA Band 5

REL99	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791655852 Date: 2025-02-26 Test Engineer: 28775 Configuration: EUT / AC Adapter, Y-Position Location: Chamber 1 Mode: Rel99 Band 5 Harmonics 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, 826.4MHz									
	1652.80	-15.0	V	3.0	43.5	1.0	-57.4	-13.0	-44.4	
	2479.20	-11.7	V	3.0	43.8	1.0	-54.5	-13.0	-41.5	
	3305.60	-9.2	V	3.0	43.8	1.0	-52.0	-13.0	-39.0	
	1652.80	-15.9	H	3.0	43.5	1.0	-58.4	-13.0	-45.4	
	2479.20	-12.1	H	3.0	43.8	1.0	-54.9	-13.0	-41.9	
	3305.60	-9.2	H	3.0	43.8	1.0	-52.0	-13.0	-39.0	
	Mid Ch, 836.6MHz									
	1673.20	-14.7	V	3.0	43.5	1.0	-57.2	-13.0	-44.2	
	2509.80	-11.7	V	3.0	43.7	1.0	-54.4	-13.0	-41.4	
	3346.40	-9.0	V	3.0	43.8	1.0	-51.8	-13.0	-38.8	
	1673.20	-15.8	H	3.0	43.5	1.0	-58.3	-13.0	-45.3	
	2509.80	-12.0	H	3.0	43.7	1.0	-54.8	-13.0	-41.8	
	3346.40	-9.0	H	3.0	43.8	1.0	-51.9	-13.0	-38.9	
	High Ch, 846.6MHz									
	1693.20	-14.7	V	3.0	43.5	1.0	-57.3	-13.0	-44.3	
	2539.80	-11.6	V	3.0	43.7	1.0	-54.4	-13.0	-41.4	
	3386.40	-8.7	V	3.0	43.9	1.0	-51.6	-13.0	-38.6	
	1693.20	-15.8	H	3.0	43.5	1.0	-58.3	-13.0	-45.3	
	2539.80	-12.0	H	3.0	43.7	1.0	-54.8	-13.0	-41.8	
	3386.40	-8.7	H	3.0	43.9	1.0	-51.5	-13.0	-38.5	

LTE Band 26 (Part 90)

5 MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791655852 Date: 2025-03-28 Test Engineer: 28775 Configuration: EUT / AC Adapter, Z-Position Location: Chamber 2 Mode: LTE_QPSK Band 26(Part90) Harmonics, 5MHz Bandwidth Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 816.5MHz									
	1633.00	-14.9	V	3.0	42.0	1.0	-55.9	-13.0	-42.9	
	2449.50	-12.6	V	3.0	42.3	1.0	-53.9	-13.0	-40.9	
	3266.00	-10.1	V	3.0	42.9	1.0	-52.0	-13.0	-39.0	
	1633.00	-15.2	H	3.0	42.0	1.0	-56.1	-13.0	-43.1	
	2449.50	-12.9	H	3.0	42.3	1.0	-54.2	-13.0	-41.2	
	3266.00	-10.0	H	3.0	42.9	1.0	-51.9	-13.0	-38.9	
	High Ch, 821.5MHz									
	1643.00	-14.8	V	3.0	42.0	1.0	-55.8	-13.0	-42.8	
	2464.50	-12.5	V	3.0	42.3	1.0	-53.8	-13.0	-40.8	
	3286.00	-10.0	V	3.0	42.9	1.0	-51.9	-13.0	-38.9	
	1643.00	-15.1	H	3.0	42.0	1.0	-56.0	-13.0	-43.0	
	2464.50	-12.9	H	3.0	42.3	1.0	-54.3	-13.0	-41.3	
	3286.00	-10.0	H	3.0	42.9	1.0	-51.9	-13.0	-38.9	

LTE Band 26 (Straddle)

1.4 MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791655852 Date: 2025-03-28 Test Engineer: 28775 Configuration: EUT / AC Adapter, Z-Position Location: Chamber 2 Mode: LTE_QPSK Band 26 Harmonics, 1.4MHz Bandwidth Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Straddle Ch, 824MHz									
	1648.00	-15.3	V	3.0	42.0	1.0	-56.3	-13.0	-43.3	
	2472.00	-12.6	V	3.0	42.3	1.0	-53.9	-13.0	-40.9	
	3296.00	-10.0	V	3.0	42.9	1.0	-51.9	-13.0	-38.9	
	1648.00	-15.9	H	3.0	42.0	1.0	-56.8	-13.0	-43.8	
	2472.00	-13.0	H	3.0	42.3	1.0	-54.3	-13.0	-41.3	
	3296.00	-10.0	H	3.0	42.9	1.0	-51.9	-13.0	-38.9	

LTE Band 26 (Part 22)

	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Sasmsung Project #: 4791655852 Date: 2025-03-28 Test Engineer: 28775 Configuration: EUT / AC Adapter, Z-Position Location: Chamber 2 Mode: LTE_QPSK Band 26 Harmonics, 10MHz 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
10 MHz QPSK	Low Ch, 829MHz									
	1658.00	-15.5	V	3.0	42.0	1.0	-56.4	-13.0	-43.4	
	2487.00	-12.4	V	3.0	42.4	1.0	-53.7	-13.0	-40.7	
	3316.00	-10.0	V	3.0	42.9	1.0	-51.9	-13.0	-38.9	
	1658.00	-15.9	H	3.0	42.0	1.0	-56.9	-13.0	-43.9	
	2487.00	-12.8	H	3.0	42.4	1.0	-54.1	-13.0	-41.1	
	3316.00	-9.9	H	3.0	42.9	1.0	-51.8	-13.0	-38.8	
	Mid Ch, 836.5MHz									
	1673.00	-15.4	V	3.0	42.0	1.0	-56.4	-13.0	-43.4	
	2509.50	-11.8	V	3.0	42.4	1.0	-53.2	-13.0	-40.2	
	3346.00	-9.8	V	3.0	42.9	1.0	-51.7	-13.0	-38.7	
	1673.00	-15.8	H	3.0	42.0	1.0	-56.7	-13.0	-43.7	
	2509.50	-12.8	H	3.0	42.4	1.0	-54.2	-13.0	-41.2	
	3346.00	-9.5	H	3.0	42.9	1.0	-51.4	-13.0	-38.4	
	High Ch, 844MHz									
	1688.00	-15.0	V	3.0	42.0	1.0	-56.0	-13.0	-43.0	
	2532.00	-12.5	V	3.0	42.4	1.0	-53.9	-13.0	-40.9	
	3376.00	-9.2	V	3.0	42.9	1.0	-51.1	-13.0	-38.1	
	1688.00	-15.5	H	3.0	42.0	1.0	-56.5	-13.0	-43.5	
	2532.00	-12.8	H	3.0	42.4	1.0	-54.2	-13.0	-41.2	
	3376.00	-9.1	H	3.0	42.9	1.0	-51.0	-13.0	-38.0	

NR Band n5 DFT-s OFDM

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4791655852							
Date:		2025-02-27							
Test Engineer:		28775							
Configuration:		EUT / AC Adapter, Z-Position							
Location:		Chamber 1							
Mode:		5G NR_QPSK NR n5 Harmonics, 15MHz 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
15 MHz									
DFT-s-OFDM									
QPSK									
Low Ch, 831.5MHz									
1663.00	-14.6	V	3.0	43.5	1.0	-57.1	-13.0	-44.1	
2494.50	-7.4	V	3.0	43.8	1.0	-50.1	-13.0	-37.1	
3326.00	-9.0	V	3.0	43.8	1.0	-51.8	-13.0	-38.8	
1663.00	-15.4	H	3.0	43.5	1.0	-57.9	-13.0	-44.9	
2494.50	-10.1	H	3.0	43.8	1.0	-52.8	-13.0	-39.8	
3326.00	-9.1	H	3.0	43.8	1.0	-51.9	-13.0	-38.9	
Mid Ch, 836.5MHz									
1673.00	-14.7	V	3.0	43.5	1.0	-57.2	-13.0	-44.2	
2509.50	-5.4	V	3.0	43.7	1.0	-48.2	-13.0	-35.2	
3346.00	-8.9	V	3.0	43.8	1.0	-51.7	-13.0	-38.7	
1673.00	-15.6	H	3.0	43.5	1.0	-58.1	-13.0	-45.1	
2509.50	-8.1	H	3.0	43.7	1.0	-50.8	-13.0	-37.8	
3346.00	-8.9	H	3.0	43.8	1.0	-51.7	-13.0	-38.7	
High Ch, 841.5MHz									
1683.00	-14.3	V	3.0	43.5	1.0	-56.8	-13.0	-43.8	
2524.50	-7.6	V	3.0	43.7	1.0	-50.3	-13.0	-37.3	
3366.00	-8.6	V	3.0	43.8	1.0	-51.4	-13.0	-38.4	
1683.00	-15.1	H	3.0	43.5	1.0	-57.6	-13.0	-44.6	
2524.50	-10.4	H	3.0	43.7	1.0	-53.1	-13.0	-40.1	
3366.00	-8.6	H	3.0	43.8	1.0	-51.4	-13.0	-38.4	

END OF REPORT