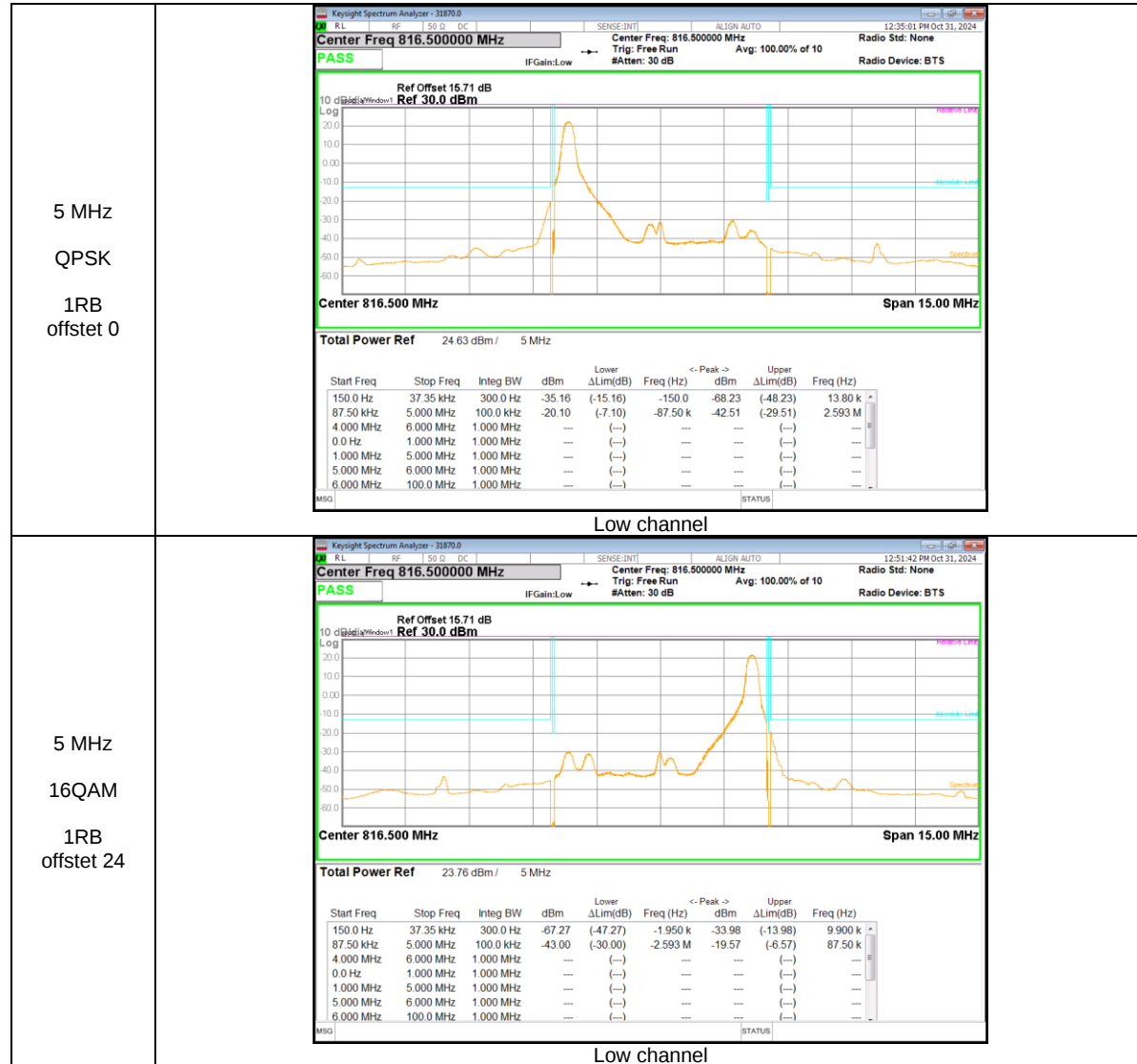
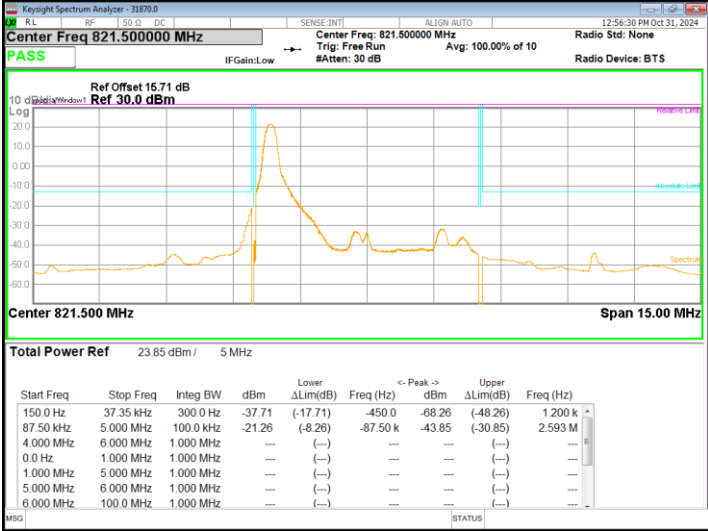
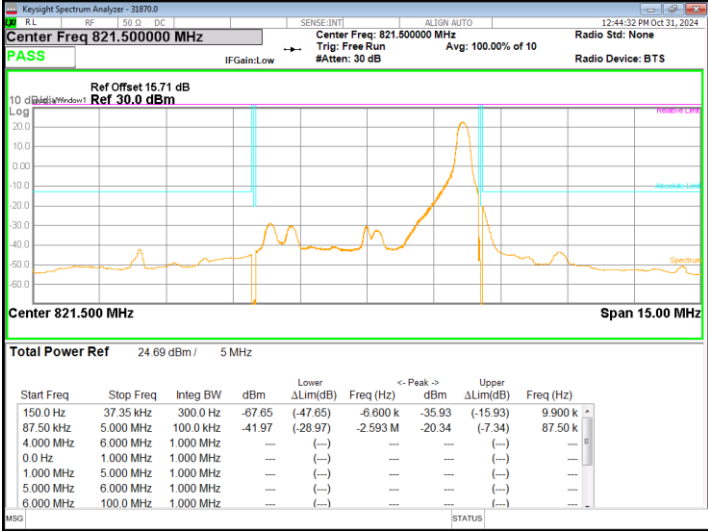


LTE Band 26 (Part 90) 1 RB (Worst Case)



5 MHz QPSK 1RB offset 0	 High channel
5 MHz QPSK 1RB offset 24	 High channel

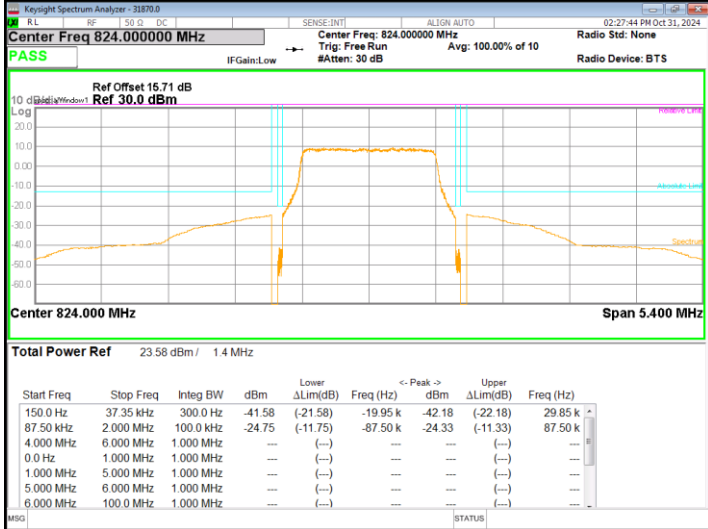
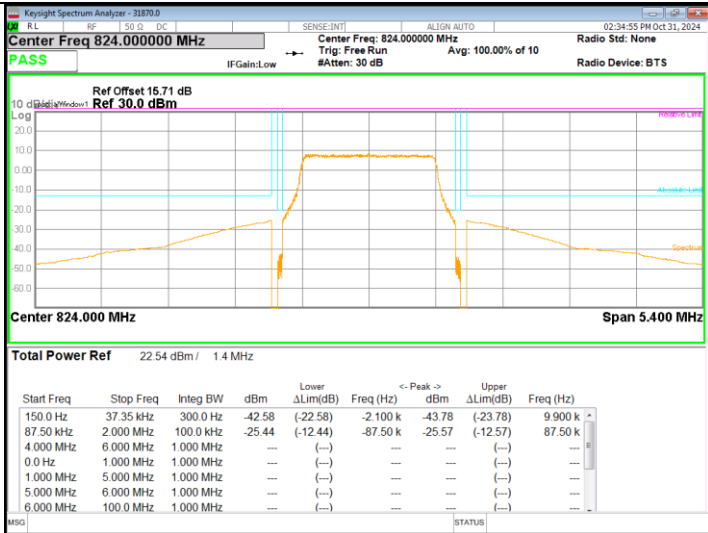
LTE Band 26 (Straddle) Full RB



10 MHz QPSK FRB	KeySight Spectrum Analyzer - 32870.0 RL RF 50 Ω DC SENSE:INT ALIGN AUTO 12:18:54 PM Oct 31, 2024 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 15.71 dB Ref 30.0 dBm Log 10 20 0.00 10.00 -10.00 -20.00 -30.00 -40.00 -50.00 -60.00 Span 30.00 MHz Center 824.00 MHz Total Power Ref 23.63 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>Freq (Hz)</th><th><- Peak -> dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>150.0 Hz</td><td>37.35 kHz</td><td>300.0 Hz</td><td>-50.92</td><td>(-30.92)</td><td>-30.00 k</td><td>-52.37</td><td>(-32.37)</td><td>22.65 k</td></tr><tr><td>87.50 kHz</td><td>10.00 MHz</td><td>100.0 kHz</td><td>-31.43</td><td>(-18.43)</td><td>-87.50 k</td><td>-32.08</td><td>(-19.08)</td><td>87.50 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> MISOSTATUS Straddle channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)	150.0 Hz	37.35 kHz	300.0 Hz	-50.92	(-30.92)	-30.00 k	-52.37	(-32.37)	22.65 k	87.50 kHz	10.00 MHz	100.0 kHz	-31.43	(-18.43)	-87.50 k	-32.08	(-19.08)	87.50 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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87.50 kHz	10.00 MHz	100.0 kHz	-31.43	(-18.43)	-87.50 k	-32.08	(-19.08)	87.50 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	---	(---)	---	---	(---)	---																																																																	
10 MHz 16QAM FRB	KeySight Spectrum Analyzer - 32870.0 RL RF 50 Ω DC SENSE:INT ALIGN AUTO 12:25:18 PM Oct 31, 2024 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 15.71 dB Ref 30.0 dBm Log 10 20 0.00 10.00 -10.00 -20.00 -30.00 -40.00 -50.00 -60.00 Span 30.00 MHz Center 824.00 MHz Total Power Ref 22.61 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>Freq (Hz)</th><th><- Peak -> dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>150.0 Hz</td><td>37.35 kHz</td><td>300.0 Hz</td><td>-49.71</td><td>(-29.71)</td><td>-30.00 k</td><td>-53.49</td><td>(-33.49)</td><td>3.000 k</td></tr><tr><td>87.50 kHz</td><td>10.00 MHz</td><td>100.0 kHz</td><td>-33.45</td><td>(-20.45)</td><td>-87.50 k</td><td>-33.32</td><td>(-20.32)</td><td>87.50 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> MISOSTATUS Straddle channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)	150.0 Hz	37.35 kHz	300.0 Hz	-49.71	(-29.71)	-30.00 k	-53.49	(-33.49)	3.000 k	87.50 kHz	10.00 MHz	100.0 kHz	-33.45	(-20.45)	-87.50 k	-33.32	(-20.32)	87.50 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)																																																																	
150.0 Hz	37.35 kHz	300.0 Hz	-49.71	(-29.71)	-30.00 k	-53.49	(-33.49)	3.000 k																																																																	
87.50 kHz	10.00 MHz	100.0 kHz	-33.45	(-20.45)	-87.50 k	-33.32	(-20.32)	87.50 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	---	(---)	---	---	(---)	---																																																																	



3 MHz QPSK FRB	KeySight Spectrum Analyzer - 32870.0 RL RF 50 Ω DC SENSE:INT ALIGN AUTO 01:44:32 PM Oct 31, 2024 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 15.71 dB Ref 30.0 dBm Center 824.000 MHz Span 9.000 MHz Total Power Ref 23.61 dBm / 3 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>150.0 Hz</td><td>37.35 kHz</td><td>300.0 Hz</td><td>-42.89</td><td>(-22.89)</td><td>-4.050 k</td><td>-44.33</td><td>(-24.33)</td><td>5.850 k</td></tr><tr><td>87.50 kHz</td><td>3.000 MHz</td><td>100.0 kHz</td><td>-27.79</td><td>(-14.79)</td><td>-102.1 k</td><td>-27.63</td><td>(-14.63)</td><td>87.50 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> MSO STATUS Straddle channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)	150.0 Hz	37.35 kHz	300.0 Hz	-42.89	(-22.89)	-4.050 k	-44.33	(-24.33)	5.850 k	87.50 kHz	3.000 MHz	100.0 kHz	-27.79	(-14.79)	-102.1 k	-27.63	(-14.63)	87.50 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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87.50 kHz	3.000 MHz	100.0 kHz	-27.79	(-14.79)	-102.1 k	-27.63	(-14.63)	87.50 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	---	(---)	---	---	(---)	---																																																																	
3 MHz 16QAM FRB	KeySight Spectrum Analyzer - 32870.0 RL RF 50 Ω DC SENSE:INT ALIGN AUTO 01:51:44 PM Oct 31, 2024 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 15.71 dB Ref 30.0 dBm Center 824.000 MHz Span 9.000 MHz Total Power Ref 22.59 dBm / 3 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>150.0 Hz</td><td>37.35 kHz</td><td>300.0 Hz</td><td>-45.03</td><td>(-25.03)</td><td>-2.100 k</td><td>-45.51</td><td>(-25.51)</td><td>3.900 k</td></tr><tr><td>87.50 kHz</td><td>3.000 MHz</td><td>100.0 kHz</td><td>-28.89</td><td>(-15.89)</td><td>-87.50 k</td><td>-28.99</td><td>(-15.99)</td><td>87.50 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> MSO STATUS Straddle channel	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)	150.0 Hz	37.35 kHz	300.0 Hz	-45.03	(-25.03)	-2.100 k	-45.51	(-25.51)	3.900 k	87.50 kHz	3.000 MHz	100.0 kHz	-28.89	(-15.89)	-87.50 k	-28.99	(-15.99)	87.50 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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4.000 MHz	6.000 MHz	1.000 MHz	---	(---)	---	---	(---)	---																																																																	
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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	---	(---)	---	---	(---)	---																																																																	

1.4 MHz QPSK FRB	 Straddle channel
1.4 MHz 16QAM FRB	 Straddle channel

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.

§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 rms detector to ensure that the worst-case emissions were caught.

- 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(WCDMA, LTE, 5G NR), Max hold(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.

RESULTS

See the following pages.

8.5.1. OUT OF BAND EMISSIONS RESULT

GSM 850



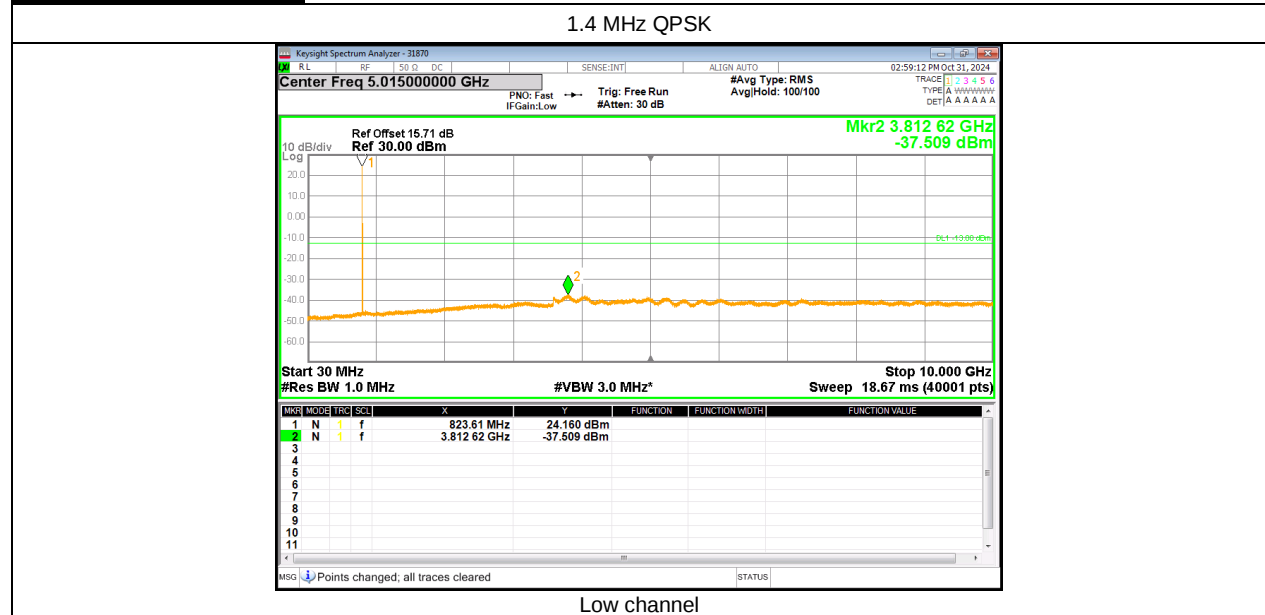
WCDMA Band 5



LTE Band 26 (Part 90)



LTE Band 26 (Straddle)



LTE Band 26 (Part 22)



NR Band n5



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	2024-11-11
Test Engineer	31870

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				
		Low Channel		High Channel		Limit [ppm]
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	50	824.20002311	-0.009	848.80002581	-0.014	2.5
3.88	40	824.20001861	-0.004	848.80002036	-0.008	2.5
3.88	30	824.20001641	-0.001	848.80001813	-0.005	2.5
3.88	20	824.20001557	0.000	848.80001396	0.000	2.5
3.88	10	824.20001037	0.006	848.80001257	0.002	2.5
3.88	0	824.20001112	0.005	848.80001323	0.001	2.5
3.88	-10	824.20001645	-0.001	848.80001233	0.002	2.5
3.88	-20	824.20001888	-0.004	848.80002012	-0.007	2.5
3.88	-30	824.20001914	-0.004	848.80002113	-0.008	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				
		Low Channel		High Channel		Limit [ppm]
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	20	824.20001557	0	848.80001396	0	2.5
4.47	20	824.20001984	-0.005	848.80002331	-0.011	2.5
3.70	20	824.20001514	0.001	848.80001655	-0.003	2.5

WCDMA Band 5

Test Date	2024-11-11
Test Engineer	31870

	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	826.40002312	-0.009	846.60002851	-0.013	2.5
3.88	40	826.40002122	-0.006	846.60002314	-0.007	2.5
3.88	30	826.40001881	-0.003	846.60002036	-0.004	2.5
3.88	20	826.40001596	0.000	846.60001711	0.000	2.5
3.88	10	826.40001423	0.002	846.60001425	0.003	2.5
3.88	0	826.40001814	-0.003	846.60001769	-0.001	2.5
3.88	-10	826.40002011	-0.005	846.60002236	-0.006	2.5
3.88	-20	826.40001874	-0.003	846.60001996	-0.003	2.5
3.88	-30	826.40001855	-0.003	846.60001810	-0.001	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				
		Low Channel		High Channel		Limit [ppm]
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	20	826.40001596	0	846.60001711	0	2.5
4.47	20	826.40002014	-0.005	846.60001833	-0.001	2.5
3.70	20	826.40001422	0.002	846.60001636	0.001	2.5

LTE Band 26

Test Date	2024-11-11
Test Engineer	31870

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
		Frequency Deviation Measured with Time Elapse				
Power Supply [Vdc]	Environment Temperature [°C]	Low Channel		High Channel		Limit [ppm]
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	50	814.70002514	-0.008	848.30002733	-0.007	2.5
3.88	40	814.70002236	-0.004	848.30002574	-0.005	2.5
3.88	30	814.70002011	-0.002	848.30002136	0.000	2.5
3.88	20	814.70001888	0.000	848.30002114	0.000	2.5
3.88	10	814.70001552	0.004	848.30001664	0.005	2.5
3.88	0	814.70001511	0.005	848.30001713	0.005	2.5
3.88	-10	814.70001784	0.001	848.30001963	0.002	2.5
3.88	-20	814.70001885	0.000	848.30002011	0.001	2.5
3.88	-30	814.70001911	0.000	848.30002314	-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
		Frequency Deviation Measured with Time Elapse				
Power Supply [Vdc]	Environment Temperature [°C]	Low Channel		High Channel		Limit [ppm]
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	20	814.70001888	0	848.30002114	0	2.5
4.47	20	814.70002054	-0.002	848.30002311	-0.002	2.5
3.70	20	814.70001614	0.003	848.30001855	0.003	2.5

NR Band n5

Test Date	2024-11-15
Test Engineer	31870

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
		Frequency Deviation Measured with Time Elapse				
Power Supply [Vdc]	Environment Temperature [°C]	Low Channel		High Channel		Limit [ppm]
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	50	826.50002352	-0.008	846.50002611	-0.010	2.5
3.88	40	826.50002193	-0.007	846.50002341	-0.007	2.5
3.88	30	826.50001855	-0.002	846.50002114	-0.004	2.5
3.88	20	826.50001653	0.000	846.50001785	0.000	2.5
3.88	10	826.50001514	0.002	846.50001691	0.001	2.5
3.88	0	826.50001355	0.004	846.50001541	0.003	2.5
3.88	-10	826.50001191	0.006	846.50001325	0.005	2.5
3.88	-20	826.50001325	0.004	846.50001336	0.005	2.5
3.88	-30	826.50001023	0.008	846.50001841	-0.001	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
		Frequency Deviation Measured with Time Elapse				
Power Supply [Vdc]	Environment Temperature [°C]	Low Channel		High Channel		Limit [ppm]
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	20	826.50001653	0	846.50001785	0	2.5
4.47	20	826.50002036	-0.005	846.50002128	-0.004	2.5
3.70	20	826.50001325	0.004	846.50001555	0.003	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 $\geq$ OBW;
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span $\geq 2 \times$ RBW;
- d) Sweep time = auto couple or 1 second;
- e) Detector = rms;
- f) Ensure that the number of measurement points $\geq$ span/RBW;
- g) Trace mode = max hold(GSM, WCDMA), average(LTE, 5G NR);

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	31.61	V	3.02	-1.03	27.57	571.48	38.50	-10.93
		836.60	33.02	V	3.04	-0.97	29.01	796.16	38.50	-9.49
		848.80	33.01	V	3.06	-0.91	29.04	801.68	38.50	-9.46
	EGPRS	824.20	23.77	V	3.02	-1.03	19.73	93.97	38.50	-18.77
		836.60	25.12	V	3.04	-0.97	21.11	129.12	38.50	-17.39
		848.80	25.19	V	3.06	-0.91	21.22	132.43	38.50	-17.28

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	21.92	V	3.02	-1.02	17.88	61.38	38.50	-20.62
		836.60	23.20	V	3.04	-0.97	19.19	82.99	38.50	-19.31
		846.60	23.25	V	3.06	-0.92	19.27	84.53	38.50	-19.23
	HSDPA	826.40	20.88	V	3.02	-1.02	16.84	48.31	38.50	-21.66
		836.60	21.98	V	3.04	-0.97	17.97	62.66	38.50	-20.53
		846.60	22.43	V	3.06	-0.92	18.45	69.98	38.50	-20.05

LTE Band 26

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
15	QPSK	821.50	22.41	V	3.01	-1.04	18.35	68.39	50.00	-31.65	1/37
		824.00	22.52	V	3.02	-1.03	18.47	70.31	38.50	-20.03	1/37
		831.50	23.21	V	3.03	-0.99	19.18	82.79	38.50	-19.32	1/37
		836.50	25.00	V	3.04	-0.97	20.99	125.60	38.50	-17.51	1/74
		841.50	24.70	V	3.05	-0.94	20.71	117.76	38.50	-17.79	1/37
	16-QAM	821.50	21.38	V	3.01	-1.04	17.32	53.95	50.00	-32.68	1/37
		824.00	21.59	V	3.02	-1.03	17.54	56.75	38.50	-20.96	1/37
		831.50	22.41	V	3.03	-0.99	18.38	68.87	38.50	-20.12	1/37
		836.50	23.39	V	3.04	-0.97	19.38	86.70	38.50	-19.12	1/37
		841.50	23.64	V	3.05	-0.94	19.65	92.26	38.50	-18.85	1/37
10	QPSK	819.00	22.30	V	3.01	-1.06	18.23	66.53	50.00	-31.77	1/49
		824.00	22.83	V	3.03	-1.01	18.79	75.68	38.50	-19.71	1/25
		829.00	22.99	V	3.03	-1.01	18.96	78.70	38.50	-19.54	1/0
		831.50	23.57	V	3.03	-0.99	19.54	89.95	38.50	-18.96	1/49
		844.00	24.22	V	3.05	-0.93	20.24	105.68	38.50	-18.26	1/0
	16-QAM	819.00	21.17	V	3.00	-1.07	17.09	51.17	50.00	-32.91	1/49
		824.00	21.74	V	3.02	-1.03	17.69	58.75	38.50	-20.81	1/25
		829.00	21.87	V	3.03	-1.01	17.84	60.81	38.50	-20.66	1/0
		831.50	22.42	V	3.03	-0.99	18.39	69.02	38.50	-20.11	1/25
		844.00	23.36	V	3.05	-0.93	19.38	86.70	38.50	-19.12	1/49
5	QPSK	816.50	22.22	V	3.00	-1.07	18.15	67.30	50.00	-31.72	1/12
		821.50	22.34	V	3.01	-1.04	18.28	70.47	50.00	-31.52	1/0
		824.00	22.52	V	3.02	-1.02	18.48	80.72	38.50	-19.43	1/24
		826.50	23.11	V	3.02	-1.02	19.07	83.37	38.50	-19.29	1/12
		831.50	23.24	V	3.03	-0.99	19.21	107.15	38.50	-18.20	1/12
	16-QAM	846.50	24.27	V	3.06	-0.92	20.30	50.93	38.50	-21.43	1/0
		816.50	21.14	V	3.00	-1.07	17.07	55.98	50.00	-32.52	1/24
		821.50	21.54	V	3.01	-1.04	17.48	55.08	50.00	-32.59	1/24
		824.00	21.45	V	3.02	-1.02	17.41	62.81	38.50	-20.52	1/12
		826.50	22.02	V	3.02	-1.02	17.98	62.23	38.50	-20.56	1/12
3	QPSK	831.50	21.97	V	3.03	-0.99	17.94	87.90	38.50	-19.06	1/12
		846.50	23.41	V	3.06	-0.92	19.44	87.90	38.50	-19.06	1/0
	16-QAM	815.50	22.00	V	3.00	-1.07	17.93	62.09	50.00	-32.07	1/14
		822.50	22.16	V	3.01	-1.04	18.11	64.71	50.00	-31.89	1/14
		824.00	22.38	V	3.02	-1.03	18.33	68.08	38.50	-20.17	1/14
1.4	QPSK	825.50	22.49	V	3.02	-1.02	18.45	69.98	38.50	-20.05	1/0
		831.50	23.15	V	3.03	-0.99	19.12	81.66	38.50	-19.38	1/14
		847.50	24.46	V	3.06	-0.91	20.49	111.94	38.50	-18.01	1/0
	16-QAM	815.50	21.14	V	3.00	-1.07	17.07	50.93	50.00	-32.93	1/14
		822.50	21.11	V	3.01	-1.04	17.06	50.82	50.00	-32.94	1/14
1.4	QPSK	824.00	21.34	V	3.02	-1.02	17.29	53.58	38.50	-21.21	1/14
		825.50	21.52	V	3.02	-1.02	17.48	55.98	38.50	-21.02	1/14
		831.50	22.11	V	3.03	-0.99	18.08	64.27	38.50	-20.42	1/14
		847.50	23.37	V	3.06	-0.91	19.40	87.10	38.50	-19.10	1/0
	16-QAM	814.70	20.95	V	3.00	-1.08	16.88	48.75	50.00	-33.12	1/5
		823.30	21.14	V	3.01	-1.03	17.09	51.17	50.00	-32.91	1/5
		824.00	22.50	V	3.02	-1.03	18.45	69.98	38.50	-20.05	1/0
		824.70	22.32	V	3.02	-1.03	18.27	67.14	38.50	-20.23	1/0
		831.50	22.80	V	3.03	-0.99	18.77	75.34	38.50	-19.73	1/5
1.4	QPSK	848.30	24.00	V	3.06	-0.91	20.03	100.69	38.50	-18.47	1/0
	16-QAM	814.70	22.05	V	3.00	-1.08	17.98	62.81	50.00	-32.02	1/5
		823.30	22.17	V	3.01	-1.03	18.12	64.86	50.00	-31.88	1/5
		824.00	21.72	V	3.02	-1.03	17.67	58.48	38.50	-20.83	1/5
		824.70	21.32	V	3.02	-1.03	17.28	53.46	38.50	-21.22	1/5
	16-QAM	831.50	21.70	V	3.03	-0.99	17.67	58.48	38.50	-20.83	1/5
		848.30	22.87	V	3.06	-0.91	18.90	77.62	38.50	-19.60	1/0

NR Band n5

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	24.35	V	3.04	-0.98	20.33	107.89	38.50	-18.17	1/53
		836.50	24.92	V	3.04	-0.97	20.91	123.31	38.50	-17.59	1/53
		839.00	24.75	V	3.04	-0.96	20.75	118.85	38.50	-17.75	1/53
	16-QAM	834.00	23.27	V	3.04	-0.98	19.25	84.14	38.50	-19.25	1/53
		836.50	23.98	V	3.04	-0.97	19.97	99.31	38.50	-18.53	1/53
		839.00	23.69	V	3.04	-0.96	19.69	93.11	38.50	-18.81	1/53
15	QPSK	831.50	24.12	V	3.03	-0.99	20.09	102.09	38.50	-18.41	1/77
		836.50	24.29	V	3.04	-0.97	20.28	106.66	38.50	-18.22	1/40
		841.50	24.40	V	3.05	-0.94	20.41	109.90	38.50	-18.09	1/1
	16-QAM	831.50	22.88	V	3.03	-0.99	18.85	76.74	38.50	-19.65	1/40
		836.50	23.05	V	3.04	-0.97	19.04	80.17	38.50	-19.46	1/40
		841.50	23.13	V	3.05	-0.94	19.14	82.04	38.50	-19.36	1/11
10	QPSK	829.00	23.58	V	3.03	-1.01	19.55	90.16	38.50	-18.95	1/50
		836.50	24.44	V	3.04	-0.97	20.43	110.41	38.50	-18.07	1/26
		844.00	23.88	V	3.05	-0.93	19.90	97.72	38.50	-18.60	1/1
	16-QAM	829.00	22.47	V	3.03	-1.01	18.44	69.82	38.50	-20.06	1/50
		836.50	23.32	V	3.04	-0.97	19.31	85.31	38.50	-19.19	1/26
		844.00	22.79	V	3.05	-0.93	18.81	76.03	38.50	-19.69	1/1
5	QPSK	826.50	23.09	V	3.02	-1.02	19.05	80.35	38.50	-19.45	1/1
		836.50	24.26	V	3.04	-0.97	20.25	105.93	38.50	-18.25	1/13
		846.50	23.81	V	3.06	-0.92	19.84	96.38	38.50	-18.66	1/1
	16-QAM	826.50	21.94	V	3.02	-1.02	17.90	61.66	38.50	-20.60	1/23
		836.50	23.02	V	3.04	-0.97	19.01	79.62	38.50	-19.49	1/1
		846.50	22.85	V	3.06	-0.92	18.88	77.27	38.50	-19.62	1/1

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 $\geq$ 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.

RESULTS

See the following pages.

9.2.1. SPURIOUS RADIATION RESULT

GSM850

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4791511838							
Date:		2024-11-07							
Test Engineer:		27089							
Configuration:		EUT / AC Adapter, Y-Position							
Location:		Chamber 2							
Mode:		GPRS 850 MHz Harmonics							
Test Voltage:		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	-4.1	V	3.0	42.0	1.0	-45.1	-13.0	-32.1	
2472.60	-2.1	V	3.0	42.3	1.0	-43.5	-13.0	-30.5	
3296.80	-6.8	V	3.0	42.9	1.0	-48.7	-13.0	-35.7	
4121.00	-3.2	V	3.0	43.2	1.0	-45.4	-13.0	-32.4	
1648.40	-6.4	H	3.0	42.0	1.0	-47.4	-13.0	-34.4	
2472.60	-2.6	H	3.0	42.3	1.0	-44.0	-13.0	-31.0	
3296.80	-6.5	H	3.0	42.9	1.0	-48.4	-13.0	-35.4	
4121.00	-3.0	H	3.0	43.2	1.0	-45.2	-13.0	-32.2	
Mid Ch, 836.6MHz									
1673.20	-6.1	V	3.0	42.0	1.0	-47.1	-13.0	-34.1	
2509.80	2.7	V	3.0	42.4	1.0	-38.6	-13.0	-25.6	
3346.40	-6.5	V	3.0	42.9	1.0	-48.4	-13.0	-35.4	
4183.00	-7.9	V	3.0	43.2	1.0	-50.1	-13.0	-37.1	
1673.20	-4.8	H	3.0	42.0	1.0	-45.8	-13.0	-32.8	
2509.80	-6.0	H	3.0	42.4	1.0	-47.4	-13.0	-34.4	
3346.40	-5.6	H	3.0	42.9	1.0	-47.5	-13.0	-34.5	
4183.00	-5.9	H	3.0	43.2	1.0	-48.1	-13.0	-35.1	
High Ch, 848.8MHz									
1697.60	-2.5	V	3.0	42.0	1.0	-43.4	-13.0	-30.4	
2546.40	4.8	V	3.0	42.4	1.0	-36.6	-13.0	-23.6	
3395.20	-6.7	V	3.0	42.9	1.0	-48.6	-13.0	-35.6	
4244.00	-7.0	V	3.0	43.2	1.0	-49.2	-13.0	-36.2	
1697.60	-0.2	H	3.0	42.0	1.0	-41.2	-13.0	-28.2	
2546.40	6.7	H	3.0	42.4	1.0	-34.8	-13.0	-21.8	
3395.20	-5.7	H	3.0	42.9	1.0	-47.7	-13.0	-34.7	
4244.00	-6.1	H	3.0	43.2	1.0	-48.3	-13.0	-35.3	

GPRS

WCDMA Band 5

	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4791511838 Date: 2024-11-08 Test Engineer: 27089 Configuration: EUT / AC Adapter, Z-Position Location: Chamber 2 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
REL99	Low Ch, 826.4MHz									
	1652.80	-15.3	V	3.0	42.0	1.0	-56.3	-13.0	-43.3	
	2479.20	-12.3	V	3.0	42.4	1.0	-53.6	-13.0	-40.6	
	3305.60	-9.4	V	3.0	42.9	1.0	-51.3	-13.0	-38.3	
	1652.80	-15.8	H	3.0	42.0	1.0	-56.8	-13.0	-43.8	
	2479.20	-12.5	H	3.0	42.4	1.0	-53.8	-13.0	-40.8	
	3305.60	-9.3	H	3.0	42.9	1.0	-51.2	-13.0	-38.2	
	Mid Ch, 836.6MHz									
	1673.20	-15.4	V	3.0	42.0	1.0	-56.3	-13.0	-43.3	
	2509.80	-12.2	V	3.0	42.4	1.0	-53.6	-13.0	-40.6	
	3346.40	-9.3	V	3.0	42.9	1.0	-51.2	-13.0	-38.2	
	1673.20	-16.0	H	3.0	42.0	1.0	-56.9	-13.0	-43.9	
	2509.80	-12.4	H	3.0	42.4	1.0	-53.8	-13.0	-40.8	
	3346.40	-9.2	H	3.0	42.9	1.0	-51.1	-13.0	-38.1	
	High Ch, 846.6MHz									
	1693.20	-15.2	V	3.0	42.0	1.0	-56.1	-13.0	-43.1	
	2539.80	-12.1	V	3.0	42.4	1.0	-53.5	-13.0	-40.5	
	3386.40	-8.8	V	3.0	42.9	1.0	-50.7	-13.0	-37.7	
	1693.20	-15.5	H	3.0	42.0	1.0	-56.4	-13.0	-43.4	
	2539.80	-12.4	H	3.0	42.4	1.0	-53.8	-13.0	-40.8	
	3386.40	-8.4	H	3.0	42.9	1.0	-50.3	-13.0	-37.3	

LTE Band 26 (Part 90)

15 MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791511838 Date: 2024-11-05 Test Engineer: 26087 Configuration: EUT / AC Adapter, Y-Position Location: Chamber 2 Mode: LTE_QPSK Band 26 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
	Low Ch, 821.5MHz									
	1643.00	-14.9	V	3.0	42.0	1.0	-55.8	-13.0	-42.8	
	2464.50	-12.0	V	3.0	42.3	1.0	-53.4	-13.0	-40.4	
	3286.00	-9.4	V	3.0	42.9	1.0	-51.3	-13.0	-38.3	
	4107.50	-9.4	V	3.0	43.2	1.0	-51.6	-13.0	-38.6	
	4929.00	-8.4	V	3.0	43.3	1.0	-50.7	-13.0	-37.7	
	1643.00	-15.2	H	3.0	42.0	1.0	-56.2	-13.0	-43.2	
	2464.50	-12.3	H	3.0	42.3	1.0	-53.6	-13.0	-40.6	
	3286.00	-9.5	H	3.0	42.9	1.0	-51.4	-13.0	-38.4	
	4107.50	-7.6	H	3.0	43.2	1.0	-49.8	-13.0	-36.8	
	4929.00	-8.3	H	3.0	43.3	1.0	-50.5	-13.0	-37.5	

LTE Band 26 (Straddle)

10 MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791511838 Date: 2024-11-04 Test Engineer: 26087 Configuration: EUT / AC Adapter, Y-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
	Straddle Ch, 824MHz									
	1648.00	-14.5	V	3.0	42.0	1.0	-55.5	-13.0	-42.5	
	2472.00	-11.5	V	3.0	42.3	1.0	-52.8	-13.0	-39.8	
	3296.00	-9.3	V	3.0	42.9	1.0	-51.2	-13.0	-38.2	
	4120.00	-9.1	V	3.0	43.2	1.0	-51.3	-13.0	-38.3	
	4944.00	-8.4	V	3.0	43.3	1.0	-50.7	-13.0	-37.7	
	1648.00	-14.9	H	3.0	42.0	1.0	-55.9	-13.0	-42.9	
	2472.00	-11.9	H	3.0	42.3	1.0	-53.3	-13.0	-40.3	
	3296.00	-9.5	H	3.0	42.9	1.0	-51.4	-13.0	-38.4	
	4120.00	-7.8	H	3.0	43.2	1.0	-50.0	-13.0	-37.0	
	4944.00	-8.3	H	3.0	43.3	1.0	-50.5	-13.0	-37.5	

LTE Band 26 (Part 22)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4791511838							
Date:		2024-11-04							
Test Engineer:		26087							
Configuration:		EUT / AC Adapter, Y-Position							
Location:		Chamber 2							
Mode:		LTE_QPSK Band 26 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
Low Ch, 831.5MHz									
1663.00	-14.6	V	3.0	42.0	1.0	-55.6	-13.0	-42.6	
2494.50	-11.5	V	3.0	42.4	1.0	-52.8	-13.0	-39.8	
3326.00	-9.4	V	3.0	42.9	1.0	-51.3	-13.0	-38.3	
4157.50	-9.0	V	3.0	43.2	1.0	-51.2	-13.0	-38.2	
4989.00	-8.3	V	3.0	43.3	1.0	-50.5	-13.0	-37.5	
1663.00	-16.1	H	3.0	42.0	1.0	-57.1	-13.0	-44.1	
2494.50	-10.0	H	3.0	42.4	1.0	-51.3	-13.0	-38.3	
3326.00	-9.3	H	3.0	42.9	1.0	-51.2	-13.0	-38.2	
4157.50	-7.4	H	3.0	43.2	1.0	-49.6	-13.0	-36.6	
4989.00	-8.2	H	3.0	43.3	1.0	-50.5	-13.0	-37.5	
Mid Ch, 836.5MHz									
1673.00	-14.1	V	3.0	42.0	1.0	-55.1	-13.0	-42.1	
2509.50	-11.2	V	3.0	42.4	1.0	-52.5	-13.0	-39.5	
3346.00	-9.1	V	3.0	42.9	1.0	-51.0	-13.0	-38.0	
4182.50	-8.7	V	3.0	43.2	1.0	-50.9	-13.0	-37.9	
5019.00	-8.1	V	3.0	43.3	1.0	-50.4	-13.0	-37.4	
1673.00	-14.9	H	3.0	42.0	1.0	-55.9	-13.0	-42.9	
2509.50	-10.8	H	3.0	42.4	1.0	-52.1	-13.0	-39.1	
3346.00	-9.3	H	3.0	42.9	1.0	-51.3	-13.0	-38.3	
4182.50	-7.0	H	3.0	43.2	1.0	-49.2	-13.0	-36.2	
5019.00	-8.1	H	3.0	43.3	1.0	-50.4	-13.0	-37.4	
High Ch, 841.5MHz									
1683.00	-13.8	V	3.0	42.0	1.0	-54.7	-13.0	-41.7	
2524.50	-11.1	V	3.0	42.4	1.0	-52.5	-13.0	-39.5	
3366.00	-8.8	V	3.0	42.9	1.0	-50.7	-13.0	-37.7	
4207.50	-8.9	V	3.0	43.2	1.0	-51.1	-13.0	-38.1	
5049.00	-7.9	V	3.0	43.3	1.0	-50.2	-13.0	-37.2	
1683.00	-14.0	H	3.0	42.0	1.0	-54.9	-13.0	-41.9	
2524.50	-9.8	H	3.0	42.4	1.0	-51.2	-13.0	-38.2	
3366.00	-9.1	H	3.0	42.9	1.0	-51.0	-13.0	-38.0	
4207.50	-7.1	H	3.0	43.2	1.0	-49.3	-13.0	-36.3	
5049.00	-8.0	H	3.0	43.3	1.0	-50.3	-13.0	-37.3	

15 MHz
QPSK

NR Band n5

20 MHz DFT-s-OFDM QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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	<table><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><tr><td colspan="11">Low Ch, 834MHz</td></tr><tr><td>1668.00</td><td>-14.4</td><td>V</td><td>3.0</td><td>42.0</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-42.3</td><td></td></tr><tr><td>2502.00</td><td>-9.9</td><td>V</td><td>3.0</td><td>42.4</td><td>1.0</td><td>-51.2</td><td>-13.0</td><td>-38.2</td><td></td></tr><tr><td>3336.00</td><td>-9.8</td><td>V</td><td>3.0</td><td>42.9</td><td>1.0</td><td>-51.7</td><td>-13.0</td><td>-38.7</td><td></td></tr><tr><td>1668.00</td><td>-14.9</td><td>H</td><td>3.0</td><td>42.0</td><td>1.0</td><td>-55.8</td><td>-13.0</td><td>-42.8</td><td></td></tr><tr><td>2502.00</td><td>-12.1</td><td>H</td><td>3.0</td><td>42.4</td><td>1.0</td><td>-53.5</td><td>-13.0</td><td>-40.5</td><td></td></tr><tr><td>3336.00</td><td>-9.5</td><td>H</td><td>3.0</td><td>42.9</td><td>1.0</td><td>-51.4</td><td>-13.0</td><td>-38.4</td><td></td></tr><tr><td colspan="11">Mid Ch, 836.5MHz</td></tr><tr><td>1673.00</td><td>-15.0</td><td>V</td><td>3.0</td><td>42.0</td><td>1.0</td><td>-55.9</td><td>-13.0</td><td>-42.9</td><td></td></tr><tr><td>2509.50</td><td>-10.7</td><td>V</td><td>3.0</td><td>42.4</td><td>1.0</td><td>-52.1</td><td>-13.0</td><td>-39.1</td><td></td></tr><tr><td>3346.00</td><td>-9.5</td><td>V</td><td>3.0</td><td>42.9</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr><tr><td>1673.00</td><td>-15.7</td><td>H</td><td>3.0</td><td>42.0</td><td>1.0</td><td>-56.6</td><td>-13.0</td><td>-43.6</td><td></td></tr><tr><td>2509.50</td><td>-12.3</td><td>H</td><td>3.0</td><td>42.4</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr><tr><td>3346.00</td><td>-8.9</td><td>H</td><td>3.0</td><td>42.9</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr><tr><td colspan="11">High Ch, 839MHz</td></tr><tr><td>1678.00</td><td>-14.5</td><td>V</td><td>3.0</td><td>42.0</td><td>1.0</td><td>-55.5</td><td>-13.0</td><td>-42.5</td><td></td></tr><tr><td>2517.00</td><td>-10.4</td><td>V</td><td>3.0</td><td>42.4</td><td>1.0</td><td>-51.8</td><td>-13.0</td><td>-38.8</td><td></td></tr><tr><td>3356.00</td><td>-9.0</td><td>V</td><td>3.0</td><td>42.9</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr><tr><td>1678.00</td><td>-15.0</td><td>H</td><td>3.0</td><td>42.0</td><td>1.0</td><td>-55.9</td><td>-13.0</td><td>-42.9</td><td></td></tr><tr><td>2517.00</td><td>-11.9</td><td>H</td><td>3.0</td><td>42.4</td><td>1.0</td><td>-53.3</td><td>-13.0</td><td>-40.3</td><td></td></tr><tr><td>3356.00</td><td>-8.9</td><td>H</td><td>3.0</td><td>42.9</td><td>1.0</td><td>-50.8</td><td>-13.0</td><td>-37.8</td><td></td></tr><tr><td colspan="11"></td></tr><tr><td colspan="11"></td></tr><tr><td colspan="11"></td></tr><tr><td colspan="11"></td></tr><tr><td colspan="11"></td></tr><tr><td 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Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, 834MHz											1668.00	-14.4	V	3.0	42.0	1.0	-55.3	-13.0	-42.3		2502.00	-9.9	V	3.0	42.4	1.0	-51.2	-13.0	-38.2		3336.00	-9.8	V	3.0	42.9	1.0	-51.7	-13.0	-38.7		1668.00	-14.9	H	3.0	42.0	1.0	-55.8	-13.0	-42.8		2502.00	-12.1	H	3.0	42.4	1.0	-53.5	-13.0	-40.5		3336.00	-9.5	H	3.0	42.9	1.0	-51.4	-13.0	-38.4		Mid Ch, 836.5MHz											1673.00	-15.0	V	3.0	42.0	1.0	-55.9	-13.0	-42.9		2509.50	-10.7	V	3.0	42.4	1.0	-52.1	-13.0	-39.1		3346.00	-9.5	V	3.0	42.9	1.0	-51.5	-13.0	-38.5		1673.00	-15.7	H	3.0	42.0	1.0	-56.6	-13.0	-43.6		2509.50	-12.3	H	3.0	42.4	1.0	-53.7	-13.0	-40.7		3346.00	-8.9	H	3.0	42.9	1.0	-50.9	-13.0	-37.9		High Ch, 839MHz											1678.00	-14.5	V	3.0	42.0	1.0	-55.5	-13.0	-42.5		2517.00	-10.4	V	3.0	42.4	1.0	-51.8	-13.0	-38.8		3356.00	-9.0	V	3.0	42.9	1.0	-50.9	-13.0	-37.9		1678.00	-15.0	H	3.0	42.0	1.0	-55.9	-13.0	-42.9		2517.00	-11.9	H	3.0	42.4	1.0	-53.3	-13.0	-40.3		3356.00	-8.9	H	3.0	42.9	1.0	-50.8	-13.0	-37.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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