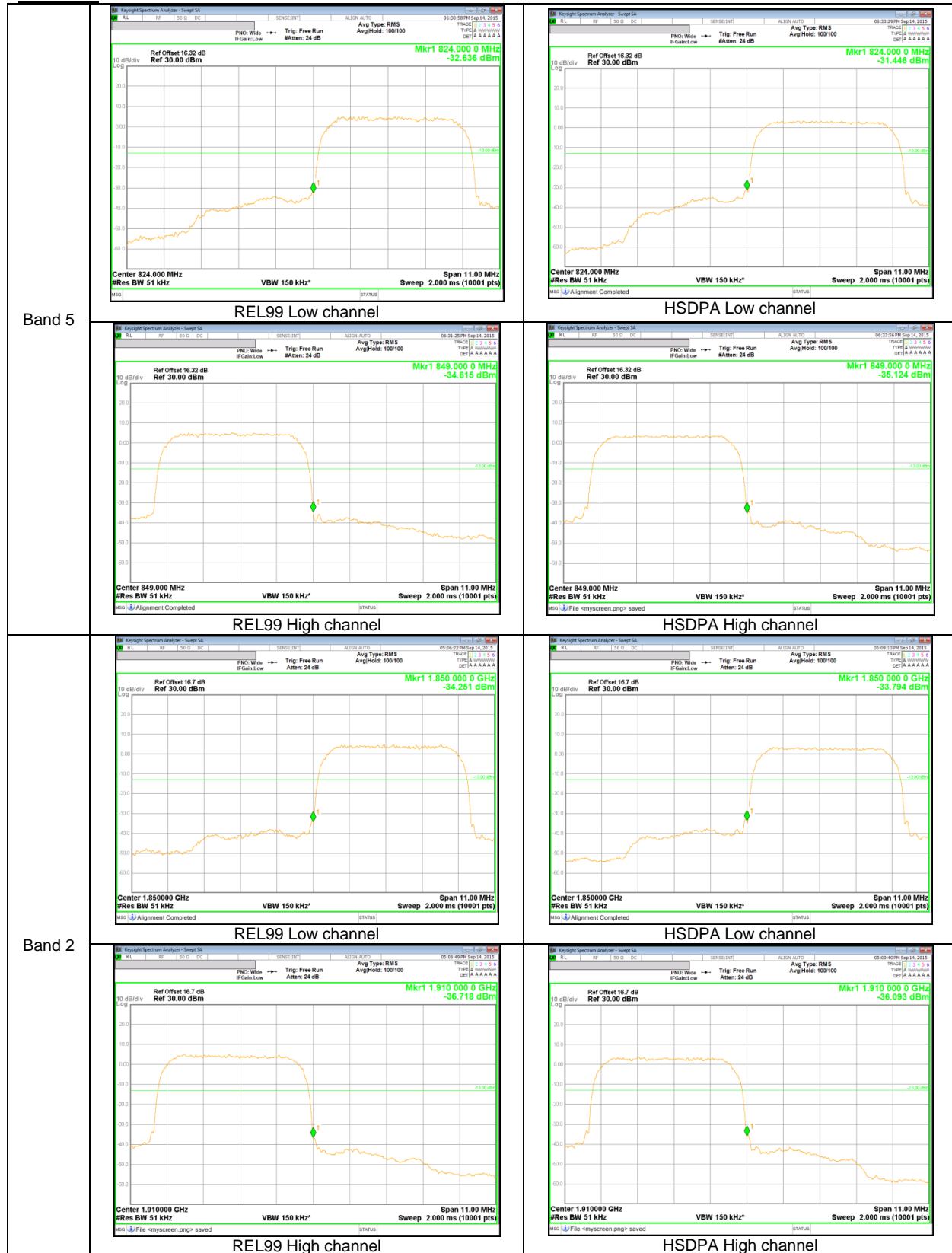
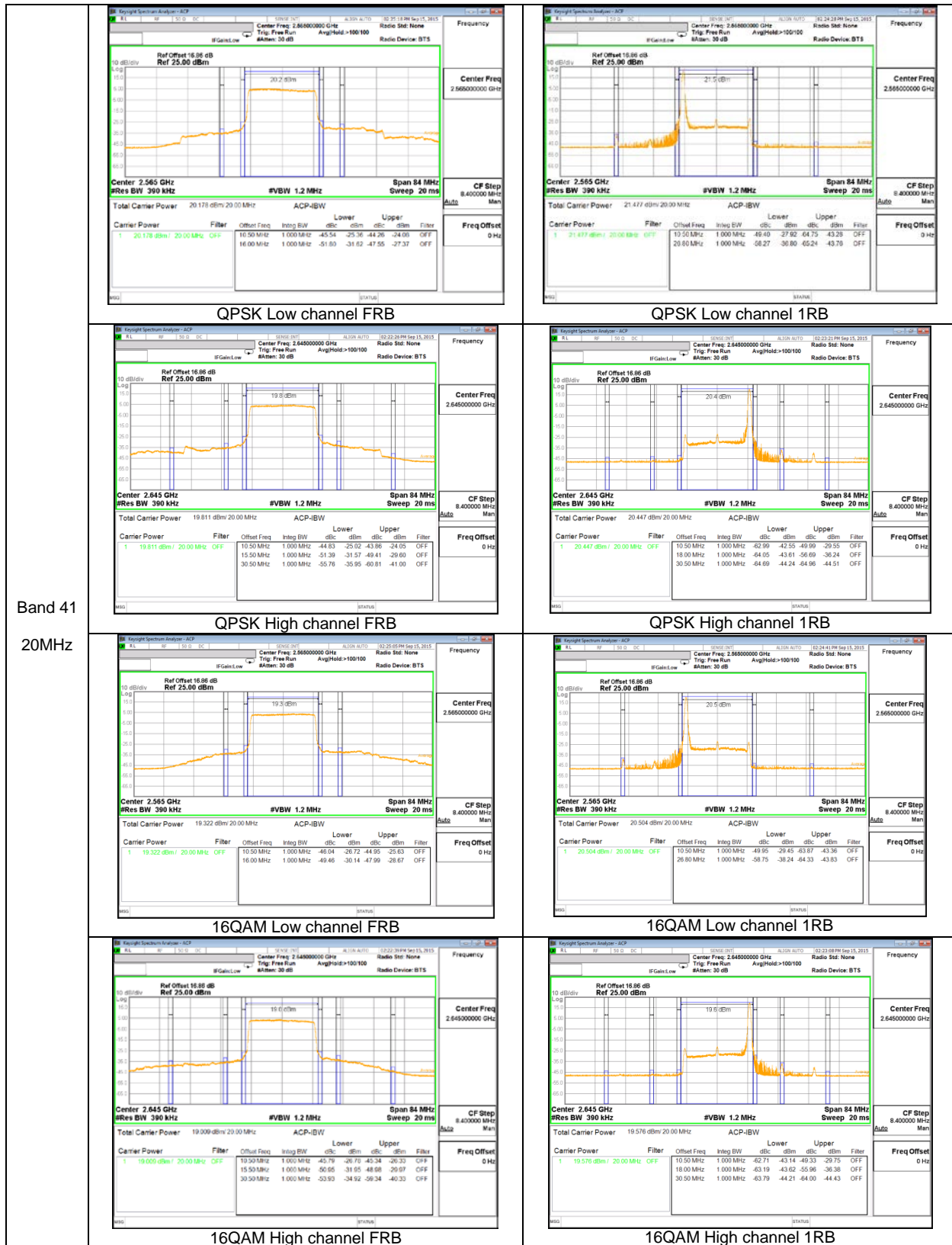


WCDMA

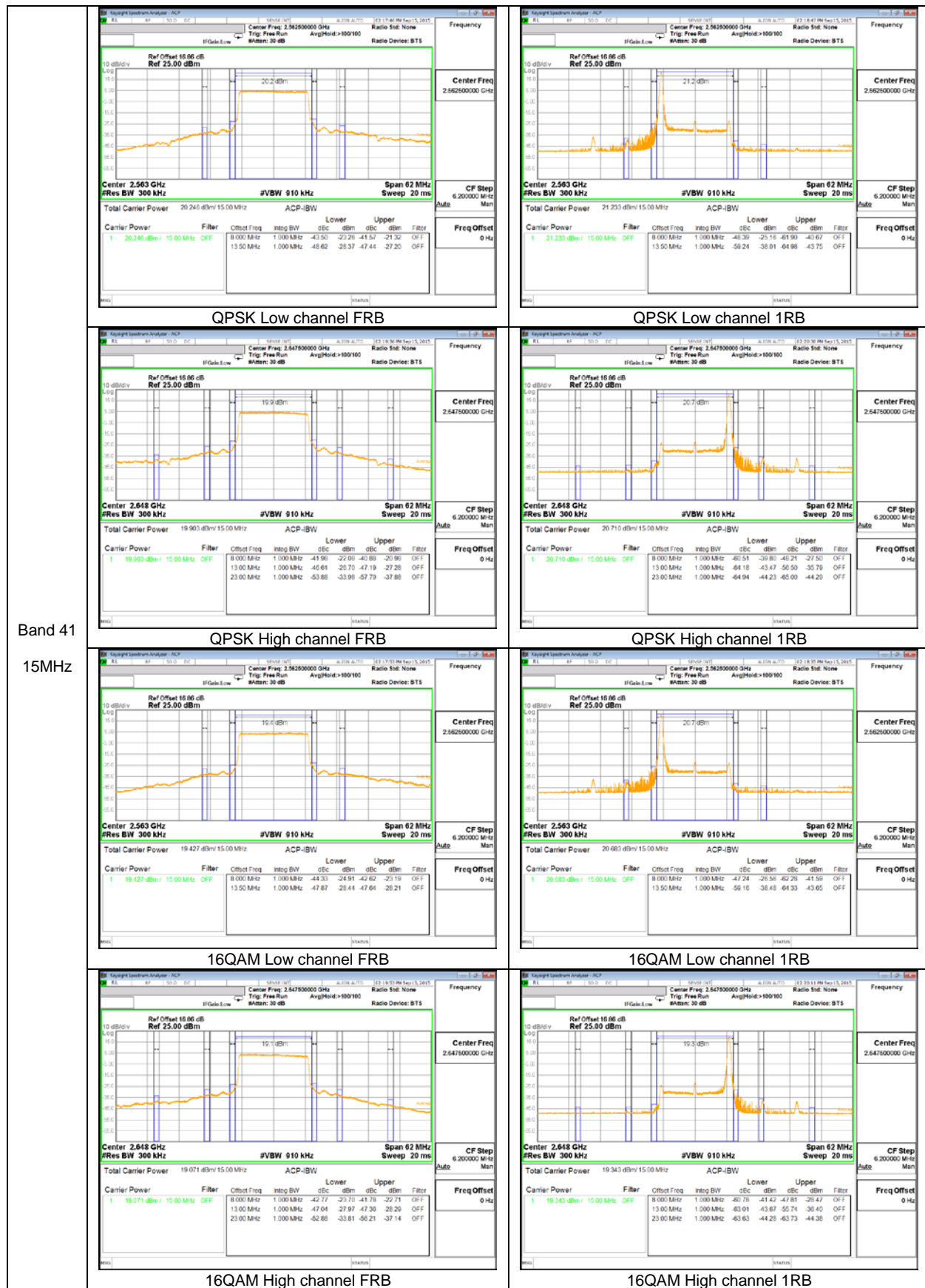


10.2.1. EMISSION MASK PLOTS

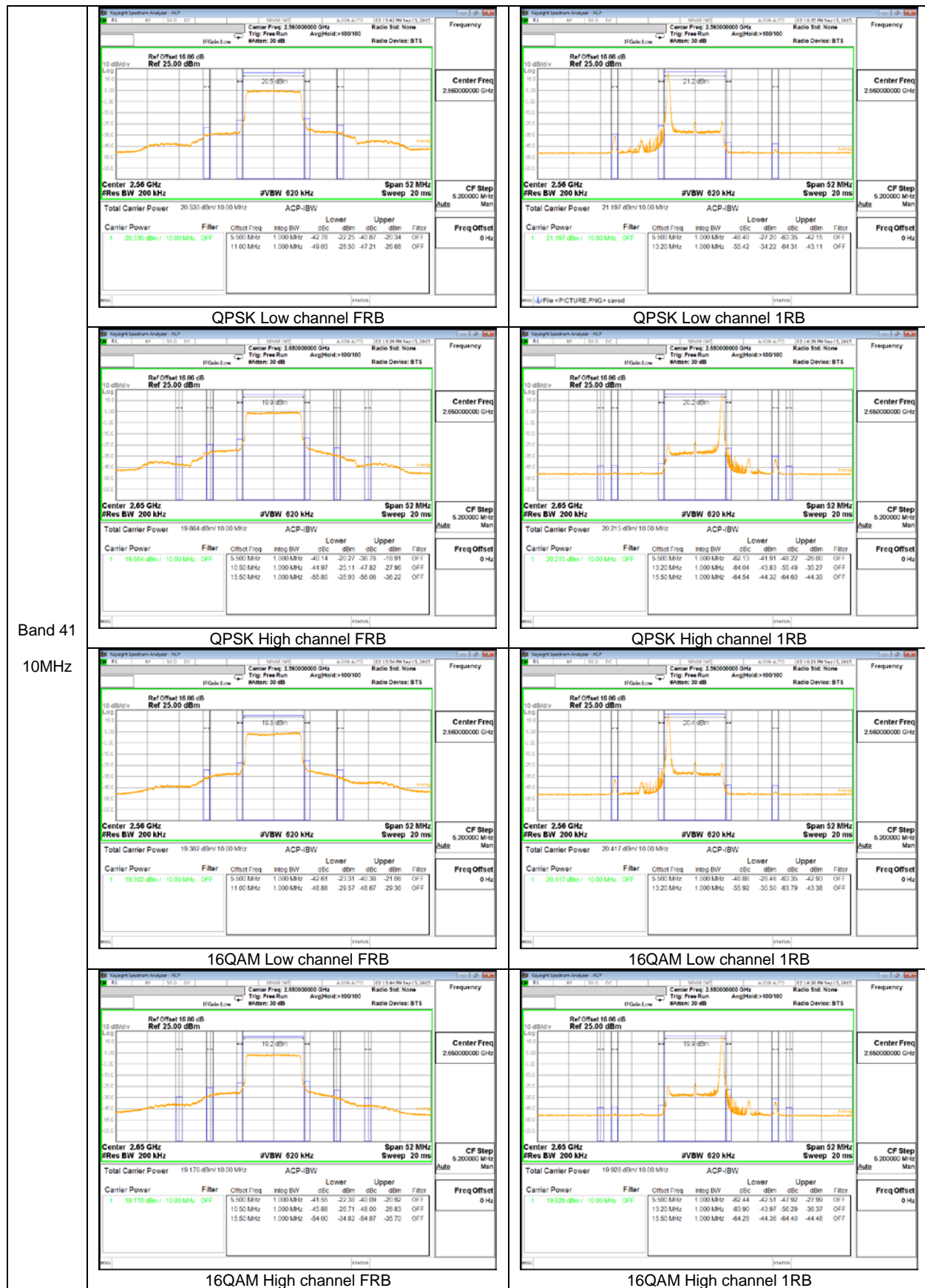
LTE Band 41



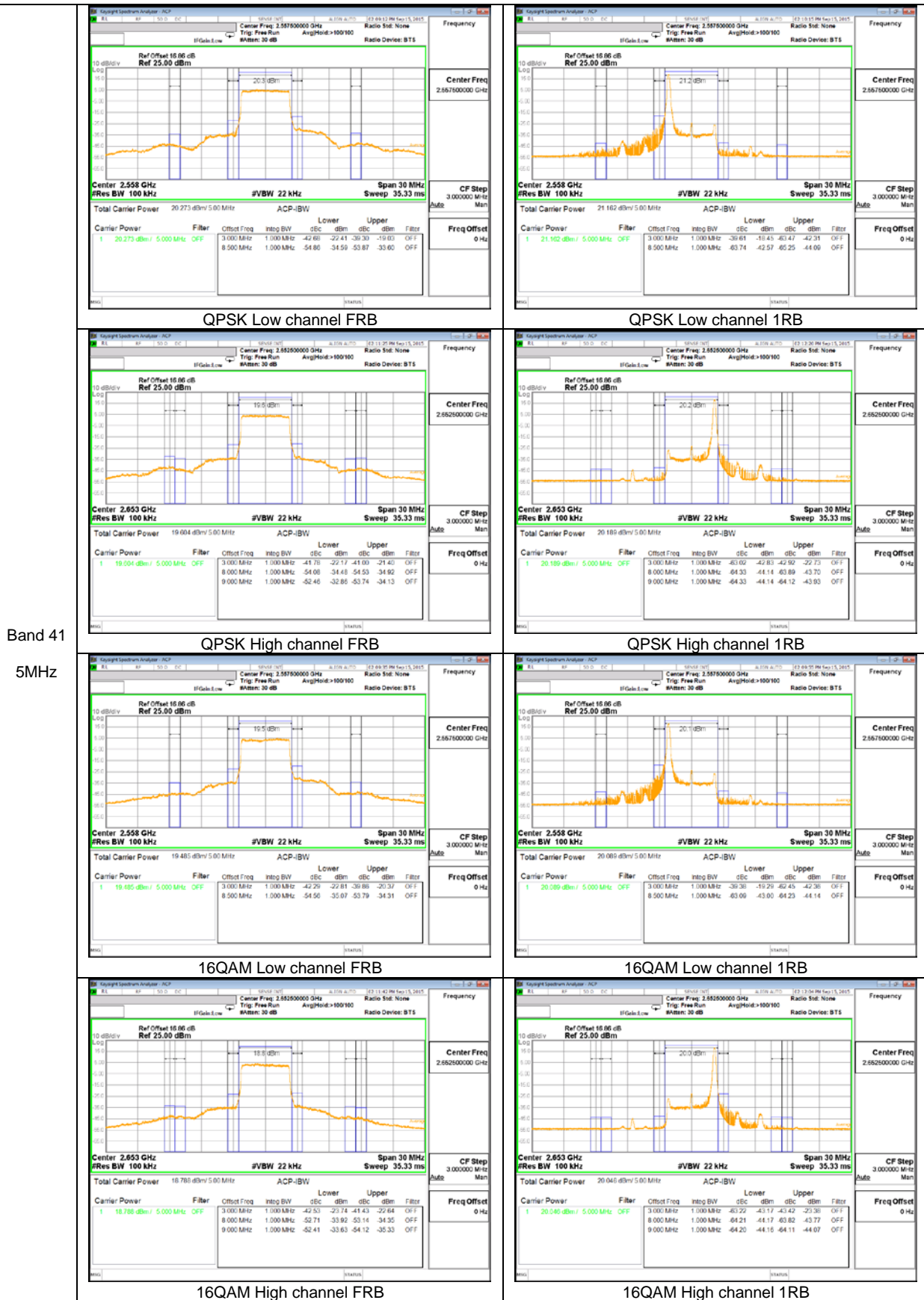
Band 41
 20MHz



Band 41
 15MHz



Band 41
 10MHz



10.3 OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238 and §27. 53

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 27: (m)(4) For mobile station, the attenuation factor shall be not less than $43 + 10 \log (P)$ dB at the channel edge and $(55 + 10 \log (P))$ dB at the 5.5 MHz from the channel edges.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

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.

RESULTS

10.3.1. OUT OF BAND EMISSIONS RESULT

GSM

Band	Mode	f [MHz]	Spurious [dBm]	Limit [dBm]	Margin [dB]
GSM850	GPRS	824.2	-24.58	-13.00	11.58
		836.6	-24.95		11.95
		848.8	-24.60		11.6
	EGPRS	824.2	-24.59		11.59
		836.6	-24.64		11.64
		848.8	-23.81		10.81
GSM1900	GPRS	1850.2	-23.99		10.99
		1880.0	-23.87		10.87
		1909.8	-23.76		10.76
	EGPRS	1850.2	-24.25	11.25	
		1880.0	-23.77	10.77	
		1909.8	-24.25	11.25	

WCDMA

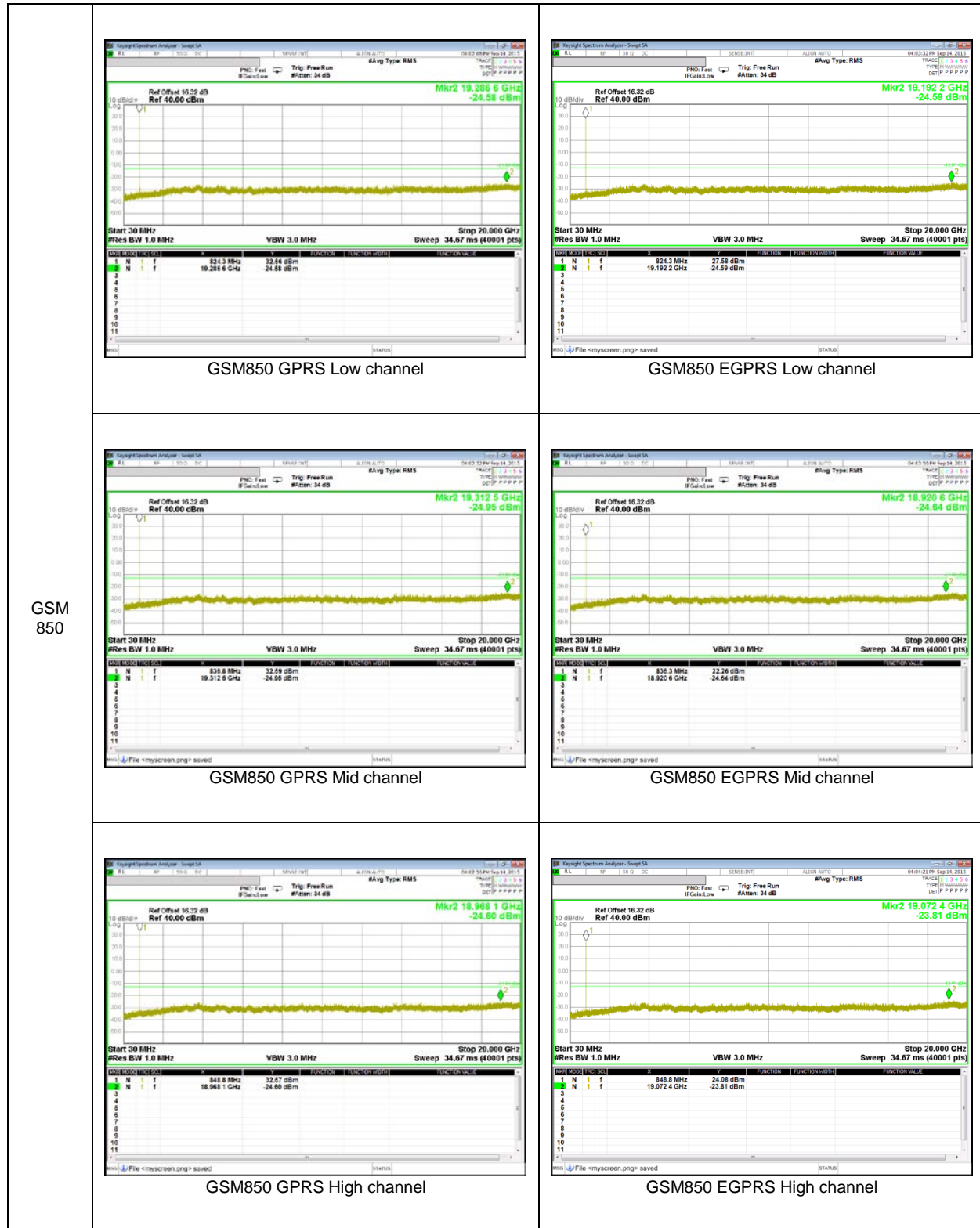
Band	Mode	f [MHz]	Spurious [dBm]	Limit [dBm]	Margin [dB]
Band 5	REL99	826.4	-34.40	-13.00	21.4
		836.6	-34.12		21.12
		846.6	-33.06		20.06
	HSDPA	826.4	-34.10		21.1
		836.6	-33.88		20.88
		846.6	-33.96		20.96
Band 2	REL99	1852.4	-33.65		20.65
		1880.0	-33.51		20.51
		1907.6	-34.19		21.19
	HSDPA	1852.4	-34.52	21.52	
		1880.0	-34.67	21.67	
		1907.6	-33.06	20.06	

LTE 41

Bandwidth	Mode	f [MHz]	Spurious [dBm]	Limit [dBm]	Margin [dB]
20 MHz	QPSK	2565.0	-31.54	-25.00	6.54
		2593.0	-32.01		7.01
		2645.0	-31.04		6.04
	16QAM	2565.0	-31.93		6.93
		2593.0	-31.75		6.75
		2645.0	-31.62		6.62
15 MHz	QPSK	2562.5	-32.15		7.15
		2593.0	-31.99		6.99
		2647.5	-31.67		6.67
	16QAM	2562.5	-31.14		6.14
		2593.0	-30.39		5.39
		2647.5	-31.11		6.11
10 MHz	QPSK	2560.0	-32.46		7.46
		2593.0	-31.73		6.73
		2650.0	-31.03		6.03
	16QAM	2560.0	-31.38		6.38
		2593.0	-31.95		6.95
		2650.0	-31.84		6.84
5 MHz	QPSK	2557.5	-31.20	6.2	
		2593.0	-31.63	6.63	
		2652.5	-32.16	7.16	
	16QAM	255275	-31.21	6.21	
		2593.0	-31.69	6.69	
		2652.5	-32.10	7.1	

10.3.2. OUT OF BAND EMISSIONS PLOTS

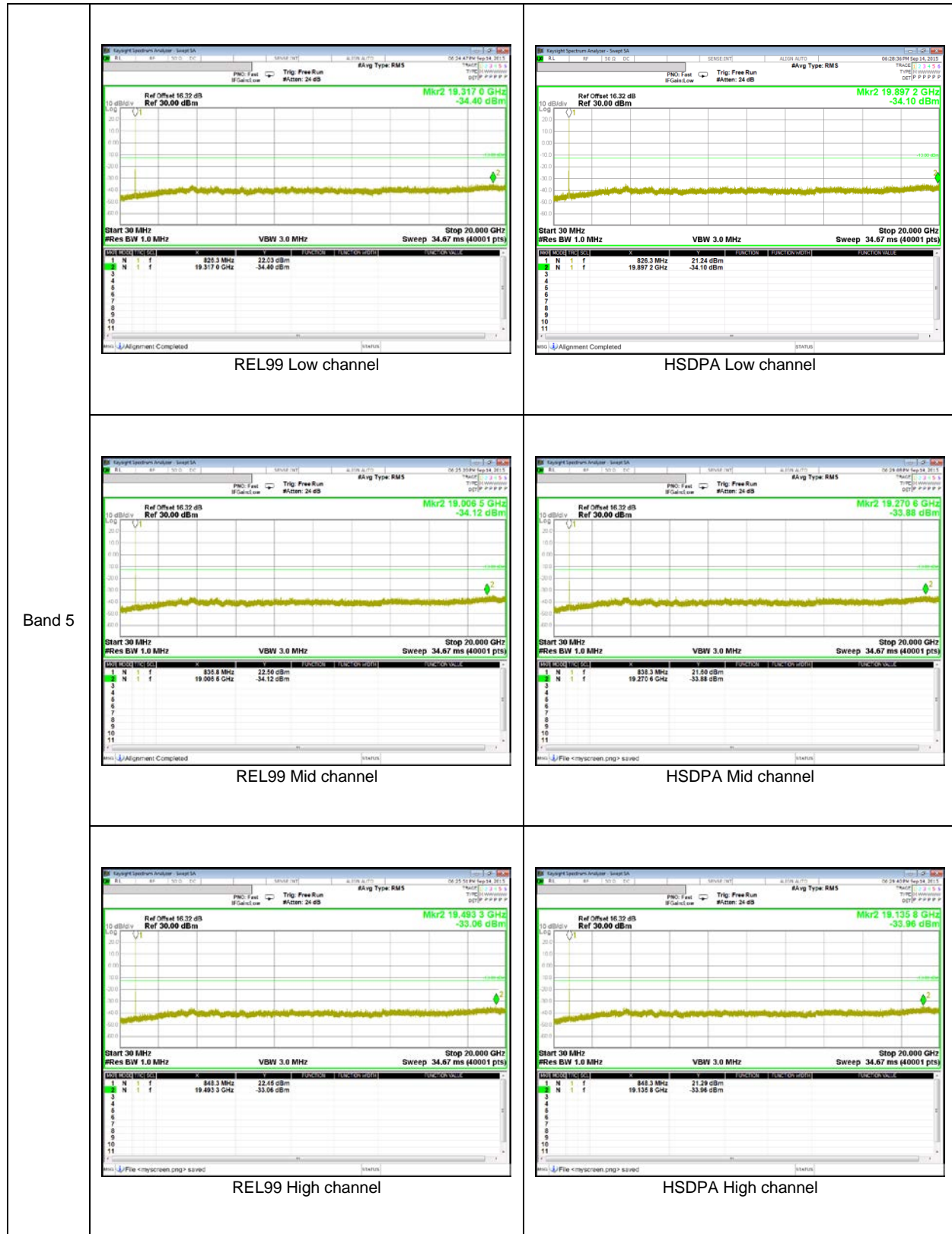
GSM 850



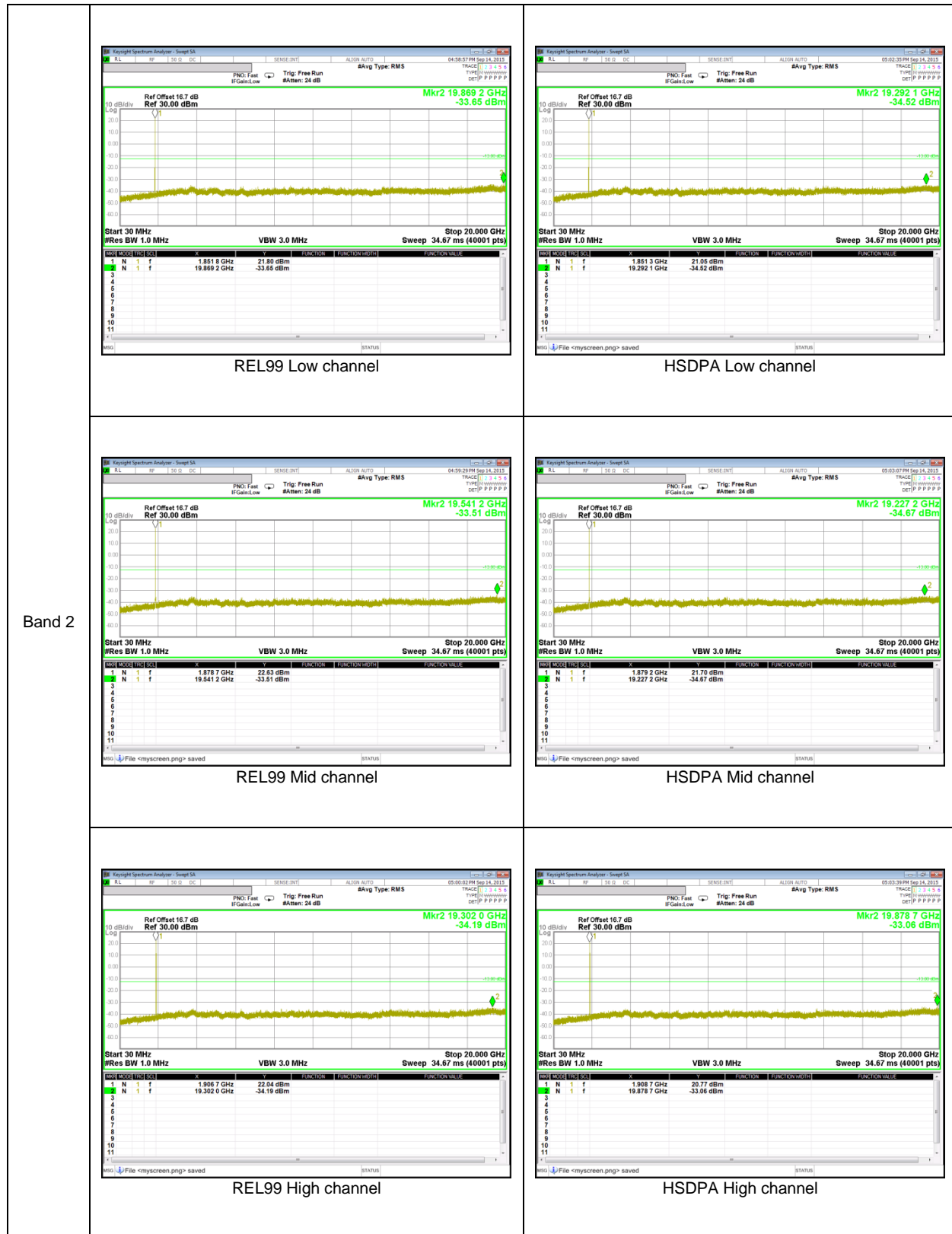
GSM 1900



WCDMA Band 5



WCDMA Band 2



LTE Band 41









10.4. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235 and §27.54

LIMITS

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

§24.235 - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

§27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

RESULTS

See the following pages.

10.4.1. FREQUENCY STABILITY RESULTS

WCDMA Band 5, Channel 4183, Frequency 836.6 MHz

GSM 850, Channel 190, Frequency 836.6 MHz

Reference Frequency: GSM850 Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2091.500 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	836.60002937	0.004	2.5
3.80	40	836.60002544	0.009	2.5
3.80	30	836.60002906	0.004	2.5
3.80	20	836.60003265	0	2.5
3.80	10	836.60003954	-0.008	2.5
3.80	0	836.60003840	-0.007	2.5
3.80	-10	836.60003903	-0.008	2.5
3.80	-20	836.60002768	0.006	2.5
3.80	-30	836.60003628	-0.004	2.5

Reference Frequency: GSM850 Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2091.500 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	836.60003265	0	2.5
4.20	20	836.60002971	0.004	2.5
3.40	20	836.60002803	0.006	2.5

WCDMA Band 2, Channel 9400, Frequency 1880.0 MHz

GSM 1900, Channel 661, Frequency 1880.0 MHz

Reference Frequency: GSM1900 Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	1879.99996125	0.005	2.5
3.80	40	1879.99998480	-0.007	2.5
3.80	30	1880.00003033	-0.031	2.5
3.80	20	1879.99997127	0	2.5
3.80	10	1879.99996399	0.004	2.5
3.80	0	1879.99997571	-0.002	2.5
3.80	-10	1879.99996464	0.004	2.5
3.80	-20	1879.99996000	0.006	2.5
3.80	-30	1879.99995305	0.010	2.5

Reference Frequency: GSM1900 Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	1879.99997127	0	2.5
4.20	20	1879.99996541	0.003	2.5
3.40	20	1879.99996239	0.005	2.5

LTE Band 41, Channel 40620, Frequency 2593.0 MHz

Reference Frequency: LTE Band41 Mid Channel 2593 MHz @ 20°C				
Limit: ± 2.5 ppm = 6482.500 Hz				
Power Supply (Vdc)	Environment Temperature (*C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	2593.00002109	0.003	2.5
3.80	40	2593.00002975	0.000	2.5
3.80	30	2593.00003292	-0.001	2.5
3.80	20	2593.00002968	0	2.5
3.80	10	2593.00002030	0.004	2.5
3.80	0	2593.00002363	0.002	2.5
3.80	-10	2593.00003322	-0.001	2.5
3.80	-20	2593.00004173	-0.005	2.5
3.80	-30	2593.00003081	0.000	2.5

Reference Frequency: LTE Band41 Mid Channel 2593 MHz @ 20°C				
Limit: ± 2.5 ppm = 6482.500 Hz				
Power Supply (Vdc)	Environment Temperature (*C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	2593.00002968	0	2.5
4.20	20	2593.00001831	0.004	2.5
3.40	20	2593.00002720	0.001	2.5

11. RADIATED TEST RESULTS

11.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232 and §27.50

LIMITS

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

24.232(c) - Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

27.50(h) - (2) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.(LTE B41)

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 603D Clause 2.2.17; MXA setting reference to 971168 D01 v02r02

For peak power measurement with a MXA:

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; e) Detector = peak; f) Ensure that the number of measurement points \geq span/RBW; g) Trace mode = max hold;

For average power measurement with a MXA:

a) Set span to at least 1.5 times the OBW; b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz; c) Set VBW $\geq 3 \times$ RBW; d) Set number of points in sweep $\geq 2 \times$ span / RBW; e) Sweep time = auto-couple; f) Detector = RMS (power averaging); g) Use free run trigger If burst duty cycle ≥ 98 ; h) Use trigger to capture bursts If burst duty cycle < 98 ; i) Trace average at least 100 traces in power averaging (*i.e.*, RMS) mode. j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function.

TEST RESULTS

11.1.1. ERP/EIRP Results

GSM

Band	Mode	Channel	f [MHz]	ERP / EIRP	
				[dBm]	[mW]
GSM850	GPRS	512	824.2	28.41	693.43
		661	836.6	28.42	695.02
		810	848.8	27.41	550.81
	EGPRS	512	824.2	20.84	121.34
		661	836.6	21.23	132.74
		810	848.8	21.12	129.42
GSM1900	GPRS	512	1850.2	28.82	762.08
		661	1880.0	28.47	703.07
		810	1909.8	29.39	868.96
	EGPRS	512	1850.2	24.67	293.09
		661	1880.0	23.99	250.61
		810	1909.8	24.73	297.17

WCDMA

Band	Mode	Channel	f [MHz]	ERP / EIRP	
				[dBm]	[mW]
Band 5	REL99	4132	826.4	18.10	64.57
		4183	836.6	16.86	48.53
		4233	846.6	16.68	46.56
	HSDPA	4132	826.4	16.46	44.26
		4183	836.6	14.89	30.83
		4233	846.6	13.97	24.95
Band 2	REL99	9262	1852.4	20.24	105.68
		9400	1880.0	20.56	113.76
		9538	1907.6	19.41	87.30
	HSDPA	9262	1852.4	19.19	82.99
		9400	1880.0	19.32	85.51
		9538	1907.6	18.85	76.74

LTE Band 41

Band	BW [MHz]	Mode	RB/RB Size	f [MHz]	ERP / EIRP	
			Full RB		[dBm]	[mW]
Band 41	20	QPSK	100/0	2565.0	21.81	151.71
			100/0	2593.0	21.67	146.89
			100/0	2645.0	23.10	204.17
		16QAM	100/0	2565.0	20.98	125.31
			100/0	2593.0	20.82	120.78
			100/0	2645.0	22.21	166.34
	15	QPSK	75/0	2562.5	21.40	138.04
			75/0	2593.0	21.96	157.04
			75/0	2647.5	22.95	197.24
		16QAM	75/0	2562.5	20.63	115.61
			75/0	2593.0	21.07	127.94
			75/0	2647.5	22.17	164.82
	10	QPSK	50/0	2560.0	22.19	165.58
			50/0	2593.0	22.25	167.88
			50/0	2650.0	23.28	212.81
		16QAM	50/0	2560.0	21.18	131.22
			50/0	2593.0	21.59	144.21
			50/0	2650.0	22.49	177.42
	5	QPSK	25/0	2552.5	21.33	135.83
			25/0	2593.0	23.29	213.30
			25/0	2652.5	23.48	222.84
		16QAM	25/0	2552.5	19.40	87.10
			25/0	2593.0	22.71	186.64
			25/0	2652.5	22.73	187.50

11.1.2. ERP/EIRP DATA

GSM 850

		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
GSM GSM850 GPRS	Company:	Samsung								
	Project #:	15K21563								
	Date:	09-10-15								
	Test Engineer:	Steven.Kim								
	Configuration:	EUT ONLY, Z Position								
	Mode:	GPRS 850 MHz								
	Test Equipment:		Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse.							
	Low Ch	824.20	31.03	V	1.1	-1.6	28.41	38.5	-10.0	
		824.20	16.66	H	1.1	-1.6	14.04	38.5	-24.4	
	Mid Ch	836.60	30.91	V	1.1	-1.4	28.42	38.5	-10.0	
		836.60	18.44	H	1.1	-1.4	15.95	38.5	-22.5	
	High Ch	848.80	29.77	V	1.1	-1.3	27.41	38.5	-11.0	
		848.80	21.15	H	1.1	-1.3	18.79	38.5	-19.7	
	Rev. 3.17.11		Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm							
		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
GSM GSM850 EGPRS	Company:	Samsung								
	Project #:	15K21563								
	Date:	09-10-15								
	Test Engineer:	Steven.Kim								
	Configuration:	EUT ONLY, Z Position								
	Mode:	EGPRS 850 MHz								
	Test Equipment:		Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse.							
	Low Ch	824.20	23.46	V	1.1	-1.6	20.84	38.5	-17.6	
		824.20	9.37	H	1.1	-1.6	6.75	38.5	-31.7	
	Mid Ch	836.60	23.72	V	1.1	-1.4	21.23	38.5	-17.2	
		836.60	13.70	H	1.1	-1.4	11.21	38.5	-27.2	
	High Ch	848.80	23.48	V	1.1	-1.3	21.12	38.5	-17.3	
		848.80	14.77	H	1.1	-1.3	12.41	38.5	-26.0	
	Rev. 3.17.11		Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm							

GSM 1900

		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2									
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
GSM GSM1900 GPRS	Company: Samsung Project #: 15K21563 Date: 09-12-15 Test Engineer: Steven Kim Configuration: EUT ONLY, Z Position Mode: GPRS 1900MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse										
	Low Ch	1850.20	16.8	V	1.60	8.80	24.02	33.0	-9.0		
		1850.20	21.6	H	1.60	8.80	28.82	33.0	-4.2		
	Mid Ch	1880.00	18.9	V	1.62	8.62	25.90	33.0	-7.1		
		1880.00	21.5	H	1.62	8.62	28.47	33.0	-4.5		
	High Ch	1909.80	19.4	V	1.63	8.44	26.25	33.0	-6.7		
		1909.80	22.6	H	1.63	8.44	29.39	33.0	-3.6		
	Rev. 3.17.11										
	GSM GSM1900 EGPRS	Company: Samsung Project #: 15K21563 Date: 09-12-15 Test Engineer: Steven Kim Configuration: EUT ONLY, Z Position Mode: EGPRS 1900MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse									
		Low Ch	1850.20	12.1	V	1.60	8.80	19.32	33.0	-13.7	
			1850.20	17.5	H	1.60	8.80	24.67	33.0	-8.3	
		Mid Ch	1880.00	14.1	V	1.62	8.62	21.06	33.0	-11.9	
			1880.00	17.0	H	1.62	8.62	23.99	33.0	-9.0	
		High Ch	1909.80	14.7	V	1.63	8.44	21.47	33.0	-11.5	
		1909.80	17.9	H	1.63	8.44	24.73	33.0	-8.3		
Rev. 3.17.11											

WCDMA Band 5

f MHz		SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch									
826.40		20.71	V	1.1	-1.5	18.10	38.5	-20.4	
826.40		5.71	H	1.1	-1.5	3.10	38.5	-35.4	
Mid Ch									
836.60		19.35	V	1.1	-1.4	16.86	38.5	-21.6	
836.60		7.61	H	1.1	-1.4	5.12	38.5	-33.3	
High Ch									
846.60		19.06	V	1.1	-1.3	16.68	38.5	-21.8	
846.60		10.12	H	1.1	-1.3	7.74	38.5	-30.7	
Rev. 3.17.11									

WCDMA
 Band 5
 REL99

f MHz		SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch									
826.40		19.07	V	1.1	-1.5	16.46	38.5	-22.0	
826.40		5.21	H	1.1	-1.5	2.60	38.5	-35.9	
Mid Ch									
836.60		17.38	V	1.1	-1.4	14.89	38.5	-23.6	
836.60		7.63	H	1.1	-1.4	5.14	38.5	-33.3	
High Ch									
846.60		16.35	V	1.1	-1.3	13.97	38.5	-24.5	
846.60		10.78	H	1.1	-1.3	8.40	38.5	-30.1	
Rev. 3.17.11									

WCDMA
 Band 5
 HSDPA

WCDMA Band 2

f MHz		SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch									
1852.40		7.93	V	1.60	8.79	15.12	33.0	-17.9	
1852.40		13.05	H	1.60	8.79	20.24	33.0	-12.8	
Mid Ch									
1880.00		12.20	V	1.62	8.62	19.20	33.0	-13.8	
1880.00		13.56	H	1.62	8.62	20.56	33.0	-12.4	
High Ch									
1907.60		11.80	V	1.63	8.45	18.62	33.0	-14.4	
1907.60		12.59	H	1.63	8.45	19.41	33.0	-13.6	

Rev. 3.17.11
 Note: For Band 4 EIRP limit is 30dBm

f MHz		SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch									
1852.40		6.81	V	1.60	8.79	14.00	33.0	-19.0	
1852.40		12.00	H	1.60	8.79	19.19	33.0	-13.8	
Mid Ch									
1880.00		10.92	V	1.62	8.62	17.92	33.0	-15.1	
1880.00		12.32	H	1.62	8.62	19.32	33.0	-13.7	
High Ch									
1907.60		10.57	V	1.63	8.45	17.39	33.0	-15.6	
1907.60		12.03	H	1.63	8.45	18.85	33.0	-14.1	

Rev. 3.17.11
 Note: For Band 4 EIRP limit is 30dBm

LTE Band 41

		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
LTE Band 41 20MHz QPSK	Company:		Samsung							
	Project #:		15K21563							
	Date:		09-15-15							
	Test Engineer:		Steven.Kim							
	Configuration:		EUT ONLY, X Position							
	Mode:		LTE Band 41, QPSK, 20MHz							
	Test Equipment:									
	Receiving:		3117, and Chamber 1 SMA Cables							
	Substitution:		3115 Substitution, 3m SMA Cable Warehouse							
			f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
		Low Ch								
		2565.00	-1.37	V	1.9	10.3	7.07	33.0	-25.9	
		2565.00	13.37	H	1.9	10.3	21.81	33.0	-11.2	
		Mid Ch								
		2593.00	-0.68	V	1.9	10.3	7.75	33.0	-25.3	
		2593.00	13.24	H	1.9	10.3	21.67	33.0	-11.3	
		High Ch								
		2645.00	0.49	V	1.9	10.3	8.90	33.0	-24.1	
		2645.00	14.69	H	1.9	10.3	23.10	33.0	-9.9	
		Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								
		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
Company:		Samsung								
Project #:		15K21563								
Date:		09-15-15								
Test Engineer:		Steven.Kim								
Configuration:		EUT ONLY, X Position								
Mode:		LTE Band 41, 16QAM, 20MHz								
Test Equipment:										
Receiving:		3117, and Chamber 1 SMA Cables								
Substitution:		3115 Substitution, 3m SMA Cable Warehouse								
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
		Low Ch								
		2565.00	-2.19	V	1.9	10.3	6.25	33.0	-26.8	
		2565.00	12.54	H	1.9	10.3	20.98	33.0	-12.0	
		Mid Ch								
		2593.00	-1.46	V	1.9	10.3	6.97	33.0	-26.0	
		2593.00	12.39	H	1.9	10.3	20.82	33.0	-12.2	
		High Ch								
		2645.00	-0.41	V	1.9	10.3	8.00	33.0	-25.0	
		2645.00	13.80	H	1.9	10.3	22.21	33.0	-10.8	
		Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								

		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2									
LTE Band 41 15MHz QPSK	Company:		Samsung								
	Project #:		15K21563								
	Date:		09-15-15								
	Test Engineer:		Steven.Kim								
	Configuration:		EUT ONLY, X Position								
	Mode:		LTE Band 41, QPSK, 15MHz								
	Test Equipment:		Receiving: 3117, and Chamber 1 SMA Cables Substitution: 3115 Substitution, 3m SMA Cable Warehouse								
			f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
			MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
			Low Ch								
			2562.50	-0.48	V	1.9	10.3	7.96	33.0	-25.0	
			2562.50	12.96	H	1.9	10.3	21.40	33.0	-11.6	
			Mid Ch								
			2593.00	-0.32	V	1.9	10.3	8.11	33.0	-24.9	
		2593.00	13.53	H	1.9	10.3	21.96	33.0	-11.0		
		High Ch									
		2647.50	0.77	V	1.9	10.3	9.18	33.0	-23.8		
		2647.50	14.54	H	1.9	10.3	22.95	33.0	-10.0		
		Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									
		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2									
Company:		Samsung									
Project #:		15K21563									
Date:		09-15-15									
Test Engineer:		Steven.Kim									
Configuration:		EUT ONLY, X Position									
Mode:		LTE Band 41, 16QAM, 15MHz									
Test Equipment:		Receiving: 3117, and Chamber 1 SMA Cables Substitution: 3115 Substitution, 3m SMA Cable Warehouse									
		f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes	
		MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)		
		Low Ch									
		2562.50	-1.24	V	1.9	10.3	7.20	33.0	-25.8		
		2562.50	12.19	H	1.9	10.3	20.63	33.0	-12.4		
		Mid Ch									
		2593.00	-1.22	V	1.9	10.3	7.21	33.0	-25.8		
		2593.00	12.64	H	1.9	10.3	21.07	33.0	-11.9		
		High Ch									
		2647.50		V	1.9	10.3	8.41	33.0	-24.6		
		2647.50	13.76	H	1.9	10.3	22.17	33.0	-10.8		
		Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
LTE Band 41 10MHz QPSK	Company:		Samsung							
	Project #:		15K21563							
	Date:		09-15-15							
	Test Engineer:		Steven.Kim							
	Configuration:		EUT ONLY, X Position							
	Mode:		LTE Band 41, QPSK, 10MHz							
	Test Equipment:									
	Receiving:		3117, and Chamber 1 SMA Cables							
	Substitution:		3115 Substitution, 3m SMA Cable Warehouse							
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	
	Low Ch									
	2560.00	0.18	V	1.9	10.3	8.62	33.0	-24.4		
	2560.00	13.75	H	1.9	10.3	22.19	33.0	-10.8		
	Mid Ch									
2593.00	-0.19	V	1.9	10.3	8.24	33.0	-24.8			
2593.00	13.82	H	1.9	10.3	22.25	33.0	-10.8			
High Ch										
2650.00	1.04	V	1.9	10.3	9.45	33.0	-23.5			
2650.00	14.87	H	1.9	10.3	23.28	33.0	-9.7			
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm										
		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
LTE Band 41 10MHz 16QAM	Company:		Samsung							
	Project #:		15K21563							
	Date:		09-15-15							
	Test Engineer:		Steven.Kim							
	Configuration:		EUT ONLY, X Position							
	Mode:		LTE Band 41 16QAM, 10MHz							
	Test Equipment:									
	Receiving:		3117, and Chamber 1 SMA Cables							
	Substitution:		3115 Substitution, 3m SMA Cable Warehouse							
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	
	Low Ch									
	2560.00	-0.82	V	1.9	10.3	7.62	33.0	-25.4		
	2560.00	12.74	H	1.9	10.3	21.18	33.0	-11.8		
	Mid Ch									
2593.00	-0.81	V	1.9	10.3	7.62	33.0	-25.4			
2593.00	13.16	H	1.9	10.3	21.59	33.0	-11.4			
High Ch										
2650.00	0.25	V	1.9	10.3	8.66	33.0	-24.3			
2650.00	14.08	H	1.9	10.3	22.49	33.0	-10.5			
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm										

		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
LTE Band 41 5MHz QPSK	Company: Samsung Project #: 15K21563 Date: 09-15-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 41, QPSK , 5MHz									
	Test Equipment: Receiving: 3117, and Chamber 1 SMA Cables Substitution: 3115 Substitution, 3m SMA Cable Warehouse									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	
	Low Ch									
	2557.50	0.74	V	1.9	10.3	9.18	33.0	-23.8		
	2557.50	12.89	H	1.9	10.3	21.33	33.0	-11.7		
	Mid Ch									
	2593.00	0.28	V	1.9	10.3	8.71	33.0	-24.3		
	2593.00	14.86	H	1.9	10.3	23.29	33.0	-9.7		
	High Ch									
2652.50	1.09	V	1.9	10.3	9.50	33.0	-23.5			
2652.50	15.07	H	1.9	10.3	23.48	33.0	-9.5			
		Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								
LTE Band 41 5MHz 16QAM	Company: Samsung Project #: 15K21563 Date: 09-15-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 41 16QAM, 5MHz									
	Test Equipment: Receiving: 3117, and Chamber 1 SMA Cables Substitution: 3115 Substitution, 3m SMA Cable Warehouse									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	
	Low Ch									
	2557.50	0.04	V	1.9	9.1	7.30	33.0	-25.7		
	2557.50	12.14	H	1.9	9.1	19.40	33.0	-13.6		
	Mid Ch									
	2593.00	-0.35	V	1.9	10.4	8.14	33.0	-24.9		
	2593.00	14.22	H	1.9	10.4	22.71	33.0	-10.3		
	High Ch									
2652.50	0.28	V	1.9	10.3	8.73	33.0	-24.3			
2652.50	14.28	H	1.9	10.3	22.73	33.0	-10.3			
		Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								

11.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238 and §27. 53

LIMIT

Part 22.917(a) & Part 24.238(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.

Part 27: (m)(4) For mobile station, the attenuation factor shall be not less than $43 + 10 \log (P)$ dB at the channel edge and $(55 + 10 \log (P))$ dB at the 5.5 MHz from the channel edges.

TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

RESULTS

11.2.1. SPURIOUS RADIATION PLOTS

GSM 850

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
GSM	GSM850 GPRS	Company: Samsung									
		Project #: 15K21563									
		Date: 09-13-15									
		Test Engineer: Steven Kim									
		Configuration: EUT / AC Adapter / Earphone, Z Position									
		Mode: GPRS 850 MHz									
		Chamber: Chamber 2		Pre-amplifier: AFS42		Filter: Filter 1		Limit: Part 22			
f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes		
GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)			
Low Ch, 824.2MHz											
1.6484	-13.5	V	3.0	39.1	1.0	-24.6	-13.0	-11.6			
2.4726	-21.2	V	3.0	39.5	1.0	-17.3	-13.0	-4.3			
3.2968	-19.4	V	3.0	40.1	1.0	-58.5	-13.0	-45.5			
1.6484	-1.3	H	3.0	39.1	1.0	-36.8	-13.0	-23.8			
2.4726	-11.2	H	3.0	39.5	1.0	-27.3	-13.0	-14.3			
3.2968	-18.8	H	3.0	40.1	1.0	-57.9	-13.0	-44.9			
Mid Ch, 836.6MHz											
1.6730	-14.3	V	3.0	39.1	1.0	-23.8	-13.0	-10.8			
2.5098	-21.2	V	3.0	39.5	1.0	-17.4	-13.0	-4.4			
3.3464	-21.0	V	3.0	40.1	1.0	-60.2	-13.0	-47.2			
1.6730	84.8	H	3.0	39.1	1.0	46.7	-13.0	59.7			
2.5098	10.5	H	3.0	39.5	1.0	-28.0	-13.0	-15.0			
3.3464	-22.5	H	3.0	40.1	1.0	-61.7	-13.0	-48.7			
High Ch, 848.8MHz											
1.6976	-16.3	V	3.0	39.1	1.0	-21.8	-13.0	-8.8			
2.5466	-18.5	V	3.0	39.6	1.0	-20.1	-13.0	-7.1			
3.3952	-21.6	V	3.0	40.2	1.0	-60.8	-13.0	-47.8			
1.6976	-1.7	H	3.0	39.1	1.0	-36.4	-13.0	-23.4			
2.5466	-9.0	H	3.0	39.6	1.0	-29.5	-13.0	-16.5			
3.3952	-22.4	H	3.0	40.2	1.0	-61.6	-13.0	-48.6			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											
		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung									
		Project #: 15K21563									
		Date: 09-13-15									
		Test Engineer: Steven Kim									
		Configuration: EUT / AC Adapter / Earphone, Z Position									
		Mode: EGPRS 850 MHz									
		Chamber: Chamber 2		Pre-amplifier: AFS42		Filter: Filter 1		Limit: Part 22			
f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes		
GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)			
Low Ch, 824.2MHz											
1.6484	-4.9	V	3.0	39.1	1.0	-43.0	-13.0	-30.0			
2.4726	-3.9	V	3.0	39.5	1.0	-42.5	-13.0	-29.5			
3.2968	-29.8	V	3.0	40.1	1.0	-68.9	-13.0	-55.9			
1.6484	-17.8	H	3.0	39.1	1.0	-56.9	-13.0	-42.9			
2.4726	-16.3	H	3.0	39.5	1.0	-54.8	-13.0	-41.8			
3.2968	-29.7	H	3.0	40.1	1.0	-68.8	-13.0	-55.8			
Mid Ch, 836.6MHz											
1.6730	-2.4	V	3.0	39.1	1.0	-40.5	-13.0	-27.5			
2.5098	-3.9	V	3.0	39.5	1.0	-42.5	-13.0	-29.5			
3.3464	-29.6	V	3.0	40.1	1.0	-68.8	-13.0	-55.8			
1.6730	-22.8	H	3.0	39.1	1.0	-60.9	-13.0	-47.9			
2.5098	-13.7	H	3.0	39.5	1.0	-52.2	-13.0	-39.2			
3.3464	-29.8	H	3.0	40.1	1.0	-69.0	-13.0	-56.0			
High Ch, 848.8MHz											
1.6976	3.2	V	3.0	39.1	1.0	-34.9	-13.0	-21.9			
2.5466	-3.9	V	3.0	39.6	1.0	-42.4	-13.0	-29.4			
3.3952	-25.4	V	3.0	40.2	1.0	-64.6	-13.0	-51.6			
1.6976	-14.0	H	3.0	39.1	1.0	-52.1	-13.0	-39.1			
2.5466	-13.1	H	3.0	39.6	1.0	-51.7	-13.0	-38.7			
3.3952	-25.8	H	3.0	40.2	1.0	-65.0	-13.0	-52.0			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											

GSM 1900

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																						
GSM GSM1900 GPRS	Company:		Samsung																																																																																																																																																																																																																																					
	Project #:		15K21563																																																																																																																																																																																																																																					
	Date:		09-09-15																																																																																																																																																																																																																																					
	Test Engineer:		Steven Kim																																																																																																																																																																																																																																					
	Configuration:		EUT / AC Adapter / Earphone, Z Position																																																																																																																																																																																																																																					
	Mode:		GPRS 1900																																																																																																																																																																																																																																					
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			Chamber 2		AFS42		Filter 1		Part 24																																																																																																																																																																																																																															
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7.5200	-10.3	V	3.0	40.7	1.0	-50.0	-13.0	-37.0																																																																																																																																																																																																																																
3.7600	-10.8	H	3.0	40.5	1.0	-50.4	-13.0	-37.4																																																																																																																																																																																																																																
5.6400	-16.9	H	3.0	40.8	1.0	-56.7	-13.0	-43.7																																																																																																																																																																																																																																
7.5200	-7.2	H	3.0	40.7	1.0	-46.9	-13.0	-33.9																																																																																																																																																																																																																																
High Ch, 1909.8 MHz																																																																																																																																																																																																																																								
3.8196	-10.0	V	3.0	40.6	1.0	-49.6	-13.0	-36.6																																																																																																																																																																																																																																
5.7294	-16.6	V	3.0	40.8	1.0	-56.3	-13.0	-43.3																																																																																																																																																																																																																																
7.6392	-8.3	V	3.0	40.7	1.0	-48.0	-13.0	-35.0																																																																																																																																																																																																																																
3.8196	-12.8	H	3.0	40.6	1.0	-52.4	-13.0	-39.4																																																																																																																																																																																																																																
5.7294	-15.6	H	3.0	40.8	1.0	-55.4	-13.0	-42.4																																																																																																																																																																																																																																
7.6392	-6.7	H	3.0	40.7	1.0	-46.4	-13.0	-33.4																																																																																																																																																																																																																																
		Rev. 03.03.09																																																																																																																																																																																																																																						
		Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																						

WCDMA Band 5

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
WCDMA Band 5 REL99	Company: Samsung Project #: 15K21563 Date: 09-14-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone / Y Position Mode: Tx, REL99,850MHz											
	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 22</div> </div>											
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
		Low Ch, 826.40MHz										
		1.6520	-23.2	V	3.0	39.1	1.0	-61.3	-13.0	-48.3		
		2.4790	-26.9	V	3.0	39.5	1.0	-65.4	-13.0	-52.4		
		3.3056	-25.8	V	3.0	40.1	1.0	-64.9	-13.0	-51.9		
		1.6520	-24.9	H	3.0	39.1	1.0	-63.0	-13.0	-50.0		
		2.4790	-27.5	H	3.0	39.5	1.0	-66.0	-13.0	-53.0		
		3.3056	-25.9	H	3.0	40.1	1.0	-65.0	-13.0	-52.0		
	Mid Ch, 836.6MHz											
	1.6732	-23.2	V	3.0	39.1	1.0	-61.3	-13.0	-48.3			
	2.5098	-26.9	V	3.0	39.5	1.0	-65.4	-13.0	-52.4			
	3.3464	-26.8	V	3.0	40.1	1.0	-66.0	-13.0	-53.0			
	1.6732	-24.5	H	3.0	39.1	1.0	-62.7	-13.0	-49.7			
	2.5098	-27.0	H	3.0	39.5	1.0	-65.6	-13.0	-52.6			
	3.3464	-26.8	H	3.0	40.1	1.0	-66.0	-13.0	-53.0			
	High Ch, 846.6MHz											
	1.6932	-23.5	V	3.0	39.1	1.0	-61.6	-13.0	-48.6			
	2.5390	-26.6	V	3.0	39.6	1.0	-65.2	-13.0	-52.2			
	3.3860	-26.5	V	3.0	40.2	1.0	-65.7	-13.0	-52.7			
	1.6932	-25.4	H	3.0	39.1	1.0	-63.5	-13.0	-50.5			
	2.5390	-27.3	H	3.0	39.6	1.0	-65.9	-13.0	-52.9			
	3.3860	-26.7	H	3.0	40.2	1.0	-65.9	-13.0	-52.9			
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										
WCDMA Band 5 HSDPA	Company: Samsung Project #: 15K21563 Date: 09-14-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone / Y Position Mode: Tx, HSDPA,850MHz											
	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 22</div> </div>											
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
		Low Ch, 826.40MHz										
		1.6520	-24.6	V	3.0	39.1	1.0	-62.7	-13.0	-49.7		
		2.4790	-26.8	V	3.0	39.5	1.0	-65.4	-13.0	-52.4		
		3.3056	-26.1	V	3.0	40.1	1.0	-65.2	-13.0	-52.2		
		1.6520	-25.7	H	3.0	39.1	1.0	-63.8	-13.0	-50.8		
		2.4790	-27.4	H	3.0	39.5	1.0	-66.0	-13.0	-53.0		
		3.3056	-26.2	H	3.0	40.1	1.0	-65.3	-13.0	-52.3		
	Mid Ch, 836.6MHz											
	1.6732	-25.1	V	3.0	39.1	1.0	-63.2	-13.0	-50.2			
	2.5098	-27.5	V	3.0	39.5	1.0	-66.0	-13.0	-53.0			
	3.3464	-26.8	V	3.0	40.1	1.0	-65.9	-13.0	-52.9			
	1.6732	-26.4	H	3.0	39.1	1.0	-64.5	-13.0	-51.5			
	2.5098	-27.7	H	3.0	39.5	1.0	-66.3	-13.0	-53.3			
	3.3464	-26.6	H	3.0	40.1	1.0	-65.8	-13.0	-52.8			
	High Ch, 846.6MHz											
	1.6932	-26.2	V	3.0	39.1	1.0	-64.4	-13.0	-51.4			
	2.5390	-27.6	V	3.0	39.6	1.0	-66.1	-13.0	-53.1			
	3.3860	-26.6	V	3.0	40.2	1.0	-65.8	-13.0	-52.8			
	1.6932	-27.7	H	3.0	39.1	1.0	-65.6	-13.0	-52.6			
	2.5390	-27.8	H	3.0	39.6	1.0	-66.4	-13.0	-53.4			
	3.3860	-26.5	H	3.0	40.2	1.0	-65.7	-13.0	-52.7			
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

WCDMA Band 2

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement								
		Company: Samsung Project #: 15K21563 Date: 09-14-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone / Z Position Mode: Tx, REL99,1900MHz								
		Chamber		Pre-amplifier		Filter		Limit		
		Chamber 2		AFS42		Filter 1		Part 24		
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch, 1852.4MHz										
3.7048	-24.5	V	3.0	40.5	1.0	-64.0	-13.0	-51.0		
5.5572	-23.9	V	3.0	40.8	1.0	-63.8	-13.0	-50.8		
7.4096	-19.8	V	3.0	40.8	1.0	-59.6	-13.0	-46.6		
3.7048	-24.4	H	3.0	40.5	1.0	-63.9	-13.0	-50.9		
5.5572	-23.8	H	3.0	40.8	1.0	-63.7	-13.0	-50.7		
7.4096	-18.3	H	3.0	40.8	1.0	-58.0	-13.0	-45.0		
Mid Ch, 1880MHz										
3.7600	-24.0	V	3.0	40.5	1.0	-63.5	-13.0	-50.5		
5.6400	-22.5	V	3.0	40.8	1.0	-62.3	-13.0	-49.3		
7.5200	-18.0	V	3.0	40.7	1.0	-57.7	-13.0	-44.7		
3.7600	-22.4	H	3.0	40.5	1.0	-62.0	-13.0	-49.0		
5.6400	-22.0	H	3.0	40.8	1.0	-61.8	-13.0	-48.8		
7.5200	-18.7	H	3.0	40.7	1.0	-58.4	-13.0	-45.4		
High Ch, 1907.6MHz										
3.8152	-24.0	V	3.0	40.6	1.0	-63.6	-13.0	-50.6		
5.7228	-19.4	V	3.0	40.8	1.0	-59.2	-13.0	-46.2		
7.6304	-17.3	V	3.0	40.7	1.0	-56.9	-13.0	-43.9		
3.8152	-22.9	H	3.0	40.6	1.0	-62.5	-13.0	-49.5		
5.7228	-18.6	H	3.0	40.8	1.0	-58.4	-13.0	-45.4		
7.6304	-17.7	H	3.0	40.7	1.0	-57.4	-13.0	-44.4		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement								
		Company: Samsung Project #: 15K21563 Date: 09-14-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Z Position Mode: Tx, HSDPA,1900MHz								
		Chamber		Pre-amplifier		Filter		Limit		
		Chamber 2		AFS42		Filter 1		Part 24		
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch, 1852.4MHz										
3.7048	-25.4	V	3.0	40.5	1.0	-64.8	-13.0	-51.8		
5.5572	-23.8	V	3.0	40.8	1.0	-63.6	-13.0	-50.6		
7.4096	-20.6	V	3.0	40.8	1.0	-60.4	-13.0	-47.4		
3.7048	-25.1	H	3.0	40.5	1.0	-64.6	-13.0	-51.6		
5.5572	-24.4	H	3.0	40.8	1.0	-64.2	-13.0	-51.2		
7.4096	-19.6	H	3.0	40.8	1.0	-59.3	-13.0	-46.3		
Mid Ch, 1880MHz										
3.7600	-24.4	V	3.0	40.5	1.0	-64.0	-13.0	-51.0		
5.6400	-23.0	V	3.0	40.8	1.0	-62.8	-13.0	-49.8		
7.5200	-18.7	V	3.0	40.7	1.0	-58.4	-13.0	-45.4		
3.7600	-23.3	H	3.0	40.5	1.0	-62.8	-13.0	-49.8		
5.6400	-22.8	H	3.0	40.8	1.0	-62.6	-13.0	-49.6		
7.5200	-19.2	H	3.0	40.7	1.0	-59.0	-13.0	-46.0		
High Ch, 1907.6MHz										
3.8152	-24.4	V	3.0	40.6	1.0	-64.0	-13.0	-51.0		
5.7228	-20.9	V	3.0	40.8	1.0	-60.7	-13.0	-47.7		
7.6304	-18.2	V	3.0	40.7	1.0	-57.9	-13.0	-44.9		
3.8152	-23.4	H	3.0	40.6	1.0	-63.0	-13.0	-50.0		
5.7228	-20.3	H	3.0	40.8	1.0	-60.1	-13.0	-47.1		
7.6304	-18.6	H	3.0	40.7	1.0	-58.3	-13.0	-45.3		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

LTE Band 41

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung									
		Project #: 15K21563									
		Date: 09-15-15									
		Test Engineer: Steven.Kim									
		Configuration: EUT / AC Adapter / Ear Phone / X-Position									
		Mode: TX, LTE BAND 41, 20MHz BW, QPSK									
		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Chamber</div> Chamber 2		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Pre-amplifier</div> AFS42		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Filter</div> Filter 1		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Limit</div> FCC Part 27			
LTE		f GHz	SG reading (dBm)	Ant. Pol. (HV)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band 41		Low Ch. (2565 MHz)									
		5.1300	-31.3	V	3.0	40.9	1.0	-71.2	-25.0	-46.2	
		7.6950	-21.6	V	3.0	40.6	1.0	-61.2	-25.0	-36.2	
		10.2600	-22.6	V	3.0	39.5	1.0	-61.1	-25.0	-36.1	
20MHz		5.1300	-30.6	H	3.0	40.9	1.0	-70.5	-25.0	-45.5	
		7.6950	-26.7	H	3.0	40.6	1.0	-66.3	-25.0	-41.3	
		10.2600	-27.3	H	3.0	39.5	1.0	-65.8	-25.0	-40.8	
QPSK		Mid Ch. (2593 MHz)									
		5.1860	-30.0	V	3.0	40.9	1.0	-69.9	-25.0	-44.9	
		7.7790	-21.0	V	3.0	40.6	1.0	-60.5	-25.0	-35.5	
		10.3720	-21.0	V	3.0	39.4	1.0	-59.4	-25.0	-34.4	
		5.1860	-27.7	H	3.0	40.9	1.0	-67.6	-25.0	-42.6	
		7.7790	-23.8	H	3.0	40.6	1.0	-63.4	-25.0	-38.4	
		10.3720	-26.5	H	3.0	39.4	1.0	-64.9	-25.0	-39.9	
		High Ch. (2645 MHz)									
		5.2900	-26.2	V	3.0	40.9	1.0	-66.0	-25.0	-41.0	
		7.9350	-18.5	V	3.0	40.5	1.0	-58.0	-25.0	-33.0	
		10.5800	-23.1	V	3.0	39.3	1.0	-61.4	-25.0	-36.4	
		5.2900	4.5	H	3.0	40.9	1.0	-35.4	-25.0	-10.4	
		7.9350	-11.0	H	3.0	40.5	1.0	-50.5	-25.0	-25.5	
		10.5800	-13.9	H	3.0	39.3	1.0	-52.2	-25.0	-27.2	
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									
		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung									
		Project #: 15K21563									
		Date: 09-15-15									
		Test Engineer: Steven.Kim									
		Configuration: EUT / AC Adapter / Ear Phone / X-Position									
		Mode: TX, LTE BAND 41, 20MHz BW, 16QAM									
		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Chamber</div> Chamber 2		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Pre-amplifier</div> AFS42		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Filter</div> Filter 1		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Limit</div> FCC Part 27			
LTE		f GHz	SG reading (dBm)	Ant. Pol. (HV)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band 41		Low Ch. (2565 MHz)									
		5.1300	-31.6	V	3.0	40.9	1.0	-71.5	-25.0	-46.5	
		7.6950	-20.7	V	3.0	40.6	1.0	-60.3	-25.0	-35.3	
		10.2600	-22.4	V	3.0	39.5	1.0	-60.9	-25.0	-35.9	
20MHz		5.1300	-31.0	H	3.0	40.9	1.0	-70.9	-25.0	-45.9	
		7.6950	-26.0	H	3.0	40.6	1.0	-65.6	-25.0	-40.6	
		10.2600	-27.2	H	3.0	39.5	1.0	-65.7	-25.0	-40.7	
16QAM		Mid Ch. (2593 MHz)									
		5.1860	-30.5	V	3.0	40.9	1.0	-70.4	-25.0	-45.4	
		7.7790	-19.8	V	3.0	40.6	1.0	-59.4	-25.0	-34.4	
		10.3720	-20.7	V	3.0	39.4	1.0	-59.1	-25.0	-34.1	
		5.1860	-27.9	H	3.0	40.9	1.0	-67.8	-25.0	-42.8	
		7.7790	-23.5	H	3.0	40.6	1.0	-63.0	-25.0	-38.0	
		10.3720	-26.0	H	3.0	39.4	1.0	-64.5	-25.0	-39.5	
		High Ch. (2645 MHz)									
		5.2900	-26.5	V	3.0	40.9	1.0	-66.3	-25.0	-41.3	
		7.9350	-17.8	V	3.0	40.5	1.0	-57.3	-25.0	-32.3	
		10.5800	-21.6	V	3.0	39.3	1.0	-59.8	-25.0	-34.8	
		5.2900	3.7	H	3.0	40.9	1.0	-36.2	-25.0	-11.2	
		7.9350	-10.9	H	3.0	40.5	1.0	-50.4	-25.0	-25.4	
		10.5800	-14.7	H	3.0	39.3	1.0	-53.0	-25.0	-28.0	
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
Company:		Samsung								
Project #:		15K21563								
Date:		09-14-15								
Test Engineer:		Steven.Kim								
Configuration:		EUT / AC Adapter / Ear Phone / X-Position								
Mode:		TX, LTE BAND 41, 15MHz BW, QPSK								
Chamber		Pre-amplifier			Filter		Limit			
Chamber 2		AFS42			Filter 1		FCC Part 27			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch. (2562.5 MHz)										
5.1250	-29.9	V	3.0	40.9	1.0	-69.8	-25.0	-44.8		
7.6875	-19.2	V	3.0	40.6	1.0	-58.9	-25.0	-33.9		
10.2500	-22.3	V	3.0	39.5	1.0	-60.8	-25.0	-35.8		
5.1250	-31.9	H	3.0	40.9	1.0	-71.8	-25.0	-46.8		
7.6875	-24.2	H	3.0	40.6	1.0	-63.8	-25.0	-38.8		
10.2500	-27.4	H	3.0	39.5	1.0	-65.9	-25.0	-40.9		
Mid Ch. (2593 MHz)										
5.1860	-31.2	V	3.0	40.9	1.0	-71.1	-25.0	-46.1		
7.7790	-19.9	V	3.0	40.6	1.0	-59.5	-25.0	-34.5		
10.3720	-20.1	V	3.0	39.4	1.0	-58.5	-25.0	-33.5		
5.1860	-26.8	H	3.0	40.9	1.0	-66.7	-25.0	-41.7		
7.7790	-24.4	H	3.0	40.6	1.0	-64.0	-25.0	-39.0		
10.3720	-26.1	H	3.0	39.4	1.0	-64.5	-25.0	-39.5		
High Ch. (2647.5 MHz)										
5.2950	-8.2	V	3.0	40.9	1.0	-48.1	-25.0	-23.1		
7.9425	-17.2	V	3.0	40.5	1.0	-56.6	-25.0	-31.6		
10.5900	-22.3	V	3.0	39.3	1.0	-60.6	-25.0	-35.6		
5.2950	6.5	H	3.0	40.9	1.0	-33.3	-25.0	-8.3		
7.9425	-9.7	H	3.0	40.5	1.0	-49.2	-25.0	-24.2		
10.5900	-11.1	H	3.0	39.3	1.0	-49.3	-25.0	-24.3		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
Company:		Samsung								
Project #:		15K21563								
Date:		09-14-15								
Test Engineer:		Steven.Kim								
Configuration:		EUT / AC Adapter / Ear Phone / X-Position								
Mode:		TX, LTE BAND 41, 15MHz BW, 16QAM								
Chamber		Pre-amplifier			Filter		Limit			
Chamber 2		AFS42			Filter 1		FCC Part 27			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch. (2562.5 MHz)										
5.1250	-30.6	V	3.0	40.9	1.0	-70.5	-25.0	-45.5		
7.6875	-19.4	V	3.0	40.6	1.0	-59.1	-25.0	-34.1		
10.2500	-22.3	V	3.0	39.5	1.0	-60.8	-25.0	-35.8		
5.1250	-29.8	H	3.0	40.9	1.0	-69.7	-25.0	-44.7		
7.6875	-24.3	H	3.0	40.6	1.0	-63.9	-25.0	-38.9		
10.2500	-27.7	H	3.0	39.5	1.0	-66.2	-25.0	-41.2		
Mid Ch. (2593 MHz)										
5.1860	-31.3	V	3.0	40.9	1.0	-71.2	-25.0	-46.2		
7.7790	-18.9	V	3.0	40.6	1.0	-58.5	-25.0	-33.5		
10.3720	-19.3	V	3.0	39.4	1.0	-57.7	-25.0	-32.7		
5.1860	-26.1	H	3.0	40.9	1.0	-66.0	-25.0	-41.0		
7.7790	-24.1	H	3.0	40.6	1.0	-63.7	-25.0	-38.7		
10.3720	-25.9	H	3.0	39.4	1.0	-64.3	-25.0	-39.3		
High Ch. (2647.5 MHz)										
5.2950	-7.7	V	3.0	40.9	1.0	-47.5	-25.0	-22.5		
7.9425	-16.4	V	3.0	40.5	1.0	-55.9	-25.0	-30.9		
10.5900	-21.1	V	3.0	39.3	1.0	-59.3	-25.0	-34.3		
5.2950	7.1	H	3.0	40.9	1.0	-32.7	-25.0	-7.7		
7.9425	-9.3	H	3.0	40.5	1.0	-48.8	-25.0	-23.8		
10.5900	-10.7	H	3.0	39.3	1.0	-48.9	-25.0	-23.9		
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LTE	Band 41	<table border="1"> <thead> <tr> <th>f GHz</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>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Low Ch. (2560 MHz)</td> </tr> <tr> <td>5.1200</td> <td>-29.9</td> <td>V</td> <td>3.0</td> <td>40.9</td> <td>1.0</td> <td>-69.8</td> <td>-25.0</td> <td>-44.8</td> <td></td> </tr> <tr> <td>7.6800</td> <td>-18.5</td> <td>V</td> <td>3.0</td> <td>40.6</td> <td>1.0</td> <td>-58.1</td> <td>-25.0</td> <td>-33.1</td> <td></td> </tr> <tr> <td>10.2400</td> <td>-22.1</td> <td>V</td> <td>3.0</td> <td>39.5</td> <td>1.0</td> <td>-60.6</td> <td>-25.0</td> <td>-35.6</td> <td></td> </tr> <tr> <td>5.1200</td> <td>-28.1</td> <td>H</td> <td>3.0</td> <td>40.9</td> <td>1.0</td> <td>-68.0</td> <td>-25.0</td> <td>-43.0</td> <td></td> </tr> <tr> <td>7.6800</td> <td>-23.7</td> <td>H</td> <td>3.0</td> <td>40.6</td> <td>1.0</td> <td>-63.3</td> <td>-25.0</td> <td>-38.3</td> <td></td> </tr> <tr> <td>10.2400</td> <td>-27.7</td> <td>H</td> <td>3.0</td> <td>39.5</td> <td>1.0</td> <td>-66.2</td> <td>-25.0</td> <td>-41.2</td> <td></td> </tr> <tr> <td colspan="10">Mid Ch. (2593 MHz)</td> </tr> <tr> <td>5.1860</td> <td>-27.9</td> <td>V</td> <td>3.0</td> <td>40.9</td> <td>1.0</td> <td>-67.8</td> <td>-25.0</td> <td>-42.8</td> <td></td> </tr> <tr> <td>7.7790</td> <td>-19.8</td> <td>V</td> <td>3.0</td> <td>40.6</td> <td>1.0</td> <td>-59.4</td> <td>-25.0</td> <td>-34.4</td> <td></td> </tr> <tr> <td>10.3720</td> <td>-19.4</td> <td>V</td> <td>3.0</td> <td>39.4</td> <td>1.0</td> <td>-57.8</td> <td>-25.0</td> <td>-32.8</td> <td></td> </tr> <tr> <td>5.1860</td> <td>-24.8</td> <td>H</td> <td>3.0</td> <td>40.9</td> <td>1.0</td> <td>-64.7</td> <td>-25.0</td> <td>-39.7</td> <td></td> </tr> <tr> <td>7.7790</td> <td>-23.7</td> <td>H</td> <td>3.0</td> <td>40.6</td> <td>1.0</td> <td>-63.3</td> <td>-25.0</td> <td>-38.3</td> <td></td> </tr> <tr> <td>10.3720</td> <td>-24.7</td> <td>H</td> <td>3.0</td> <td>39.4</td> <td>1.0</td> <td>-63.1</td> <td>-25.0</td> <td>-38.1</td> <td></td> </tr> <tr> <td colspan="10">High Ch. (2650 MHz)</td> </tr> <tr> <td>5.3000</td> <td>-3.7</td> <td>V</td> <td>3.0</td> <td>40.9</td> <td>1.0</td> <td>-43.6</td> <td>-25.0</td> <td>-18.6</td> <td></td> </tr> <tr> <td>7.9500</td> <td>-17.0</td> <td>V</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-56.5</td> <td>-25.0</td> <td>-31.5</td> <td></td> </tr> <tr> <td>10.6000</td> <td>-22.6</td> <td>V</td> <td>3.0</td> <td>39.2</td> <td>1.0</td> <td>-60.8</td> <td>-25.0</td> <td>-35.8</td> <td></td> </tr> <tr> <td>5.3000</td> <td>7.1</td> <td>H</td> <td>3.0</td> <td>40.9</td> <td>1.0</td> <td>-32.7</td> <td>-25.0</td> <td>-7.7</td> <td></td> </tr> <tr> <td>7.9500</td> <td>-9.2</td> <td>H</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-48.6</td> <td>-25.0</td> <td>-23.6</td> <td></td> </tr> <tr> <td>10.6000</td> <td>-10.3</td> <td>H</td> <td>3.0</td> <td>39.2</td> <td>1.0</td> <td>-48.5</td> <td>-25.0</td> <td>-23.5</td> <td></td> </tr> </tbody> </table>										f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch. (2560 MHz)										5.1200	-29.9	V	3.0	40.9	1.0	-69.8	-25.0	-44.8		7.6800	-18.5	V	3.0	40.6	1.0	-58.1	-25.0	-33.1		10.2400	-22.1	V	3.0	39.5	1.0	-60.6	-25.0	-35.6		5.1200	-28.1	H	3.0	40.9	1.0	-68.0	-25.0	-43.0		7.6800	-23.7	H	3.0	40.6	1.0	-63.3	-25.0	-38.3		10.2400	-27.7	H	3.0	39.5	1.0	-66.2	-25.0	-41.2		Mid Ch. (2593 MHz)										5.1860	-27.9	V	3.0	40.9	1.0	-67.8	-25.0	-42.8		7.7790	-19.8	V	3.0	40.6	1.0	-59.4	-25.0	-34.4		10.3720	-19.4	V	3.0	39.4	1.0	-57.8	-25.0	-32.8		5.1860	-24.8	H	3.0	40.9	1.0	-64.7	-25.0	-39.7		7.7790	-23.7	H	3.0	40.6	1.0	-63.3	-25.0	-38.3		10.3720	-24.7	H	3.0	39.4	1.0	-63.1	-25.0	-38.1		High Ch. (2650 MHz)										5.3000	-3.7	V	3.0	40.9	1.0	-43.6	-25.0	-18.6		7.9500	-17.0	V	3.0	40.5	1.0	-56.5	-25.0	-31.5		10.6000	-22.6	V	3.0	39.2	1.0	-60.8	-25.0	-35.8		5.3000	7.1	H	3.0	40.9	1.0	-32.7	-25.0	-7.7		7.9500	-9.2	H	3.0	40.5	1.0	-48.6	-25.0	-23.6		10.6000	-10.3	H	3.0	39.2	1.0	-48.5	-25.0	-23.5	
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10.3720	-19.4	V	3.0	39.4	1.0	-57.8	-25.0	-32.8																																																																																																																																																																																																																															
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		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 15K21563 Date: 09-14-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 41, 5MHz BW, QPSK									
		Chamber		Pre-amplifier		Filter		Limit			
		Chamber 2		AFS42		Filter 1		FCC Part 27			
LTE Band 41 5MHz QPSK		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Ch. (2557.5 MHz)									
		5.1150	-29.2	V	3.0	40.9	1.0	-69.1	-25.0	-44.1	
		7.6725	-19.3	V	3.0	40.6	1.0	-58.9	-25.0	-33.9	
		10.2300	-21.7	V	3.0	39.5	1.0	-60.3	-25.0	-35.3	
		5.1150	-30.9	H	3.0	40.9	1.0	-70.8	-25.0	-45.8	
		7.6725	-23.5	H	3.0	40.6	1.0	-63.1	-25.0	-38.1	
		10.2300	-27.7	H	3.0	39.5	1.0	-66.3	-25.0	-41.3	
		Mid Ch. (2593 MHz)									
		5.1860	-30.6	V	3.0	40.9	1.0	-70.5	-25.0	-45.5	
		7.7790	-20.4	V	3.0	40.6	1.0	-59.9	-25.0	-34.9	
		10.3720	-20.1	V	3.0	39.4	1.0	-58.5	-25.0	-33.5	
		5.1860	-22.8	H	3.0	40.9	1.0	-62.7	-25.0	-37.7	
		7.7790	-24.4	H	3.0	40.6	1.0	-64.0	-25.0	-39.0	
		10.3720	-24.2	H	3.0	39.4	1.0	-62.6	-25.0	-37.6	
		High Ch. (2652.5 MHz)									
		5.3050	-1.8	V	3.0	40.9	1.0	-41.7	-25.0	-16.7	
		7.9575	-15.8	V	3.0	40.5	1.0	-55.3	-25.0	-30.3	
		10.6100	-23.1	V	3.0	39.2	1.0	-61.4	-25.0	-36.4	
		5.3050	8.0	H	3.0	40.9	1.0	-31.9	-25.0	-6.9	
		7.9575	-7.5	H	3.0	40.5	1.0	-47.0	-25.0	-22.0	
		10.6100	-8.0	H	3.0	39.2	1.0	-46.3	-25.0	-21.3	
		Rev.03.03.09 Note: No other emissions were detected above the system noise floor.									
		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 15K21563 Date: 09-14-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 41, 5MHz BW, 16QAM									
		Chamber		Pre-amplifier		Filter		Limit			
		Chamber 2		AFS42		Filter 1		FCC Part 27			
LTE Band 41 5MHz 16QAM		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Ch. (2557.5 MHz)									
		5.1150	-30.2	V	3.0	40.9	1.0	-70.1	-25.0	-45.1	
		7.6725	-18.5	V	3.0	40.6	1.0	-58.1	-25.0	-33.1	
		10.2300	-22.0	V	3.0	39.5	1.0	-60.5	-25.0	-35.5	
		5.1150	-30.9	H	3.0	40.9	1.0	-70.8	-25.0	-45.8	
		7.6725	-24.3	H	3.0	40.6	1.0	-63.9	-25.0	-38.9	
		10.2300	-27.6	H	3.0	39.5	1.0	-66.1	-25.0	-41.1	
		Mid Ch. (2593 MHz)									
		5.1860	-29.7	V	3.0	40.9	1.0	-69.6	-25.0	-44.6	
		7.7790	-20.1	V	3.0	40.6	1.0	-59.6	-25.0	-34.6	
		10.3720	-20.0	V	3.0	39.4	1.0	-58.4	-25.0	-33.4	
		5.1860	-23.3	H	3.0	40.9	1.0	-63.2	-25.0	-38.2	
		7.7790	-21.8	H	3.0	40.6	1.0	-61.3	-25.0	-36.3	
		10.3720	-24.2	H	3.0	39.4	1.0	-62.6	-25.0	-37.6	
		High Ch. (2652.5 MHz)									
		5.3050	-1.8	V	3.0	40.9	1.0	-41.6	-25.0	-16.6	
		7.9575	-16.0	V	3.0	40.5	1.0	-55.5	-25.0	-30.5	
		10.6100	-22.1	V	3.0	39.2	1.0	-60.3	-25.0	-35.3	
		5.3050	8.0	H	3.0	40.9	1.0	-31.9	-25.0	-6.9	
		7.9575	-7.8	H	3.0	40.5	1.0	-47.3	-25.0	-22.3	
		10.6100	-8.4	H	3.0	39.2	1.0	-46.6	-25.0	-21.6	
		Rev.03.03.09 Note: No other emissions were detected above the system noise floor.									