

CERTIFICATION TEST REPORT

Report Number. : S-4791655852-E3V2

Applicant : SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,
GYEONGGI-DO, 16677, KOREA

Model : SC-54F

FCC ID : A3LSMA366JPN

EUT Description : GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax
and NFC.

Test Standard(s) : FCC 47 CFR PART 24 SUBPART E

Date Of Issue:
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Revision History

Rev.	Issue Date	Revisions	Revised By
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax and NFC

MODEL NUMBER: SC-54F

SERIAL NUMBER: R3CXB0VFZ0X, R3CXB0VFXGW, R3CXB0VG4HW, R3CXB0VG41A (CONDUCTED);
R3CXB0VG1KB, R3CXB0VG1MT, R3CXB0VG18W, R3CXB0VG1HK (RADIATED);

DATE TESTED: 2025-02-11 – 2025-04-17;

APPLICABLE STANDARD	
STANDARD	TEST RESULTS
FCC PART 24E	Complies

UL KOREA LTD. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL KOREA LTD. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and Modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL KOREA LTD. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL KOREA LTD. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL KOREA LTD. By:



Seokhwan Hong
Suwon Lab Engineer
UL KOREA LTD.

Tested By:



Yeonhee Lim
Suwon Lab Engineer
UL KOREA LTD.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

1. FCC 47 CFR Part 2.
2. FCC 47 CFR Part 24.
3. ANSI TIA-603-E, 2016
4. ANSI C63.26, 2015
5. KDB 971168 D01 Power Meas License Digital Systems v03r01
6. KDB 971168 D02 Misc Rev Approv License Devices v02r02
7. KDB 412172 D01 Determining ERP and EIRP v01r01

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

218 Maeyeong-ro	
☒	Chamber 1(3m semi-anechoic chamber)
☐	Chamber 2(3m semi-anechoic chamber)
☐	Chamber 3(3m semi-anechoic chamber)
☒	Chamber 4(3m Full-anechoic chamber)
☐	Chamber 5(3m Full-anechoic chamber)

UL KOREA LTD. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\text{EIRP} = \text{SG reading with EUT worst orientation (dBm)} - \text{cable loss (between the SG and substitution antenna)} + \text{Substitution Antenna Factor (dBi)}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	1.84 dB
Radiated Disturbance, 9 kHz to 30 MHz	2.41 dB
Radiated Disturbance, 30 MHz to 1 GHz	3.69 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.18 dB
Radiated Disturbance, Above 18 GHz	5.07 dB

Uncertainty figures are valid to a confidence level of 95%.

4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Clause 4.3.3 in IEC Guide 115:2023.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax and NFC.
This test report addresses the WWAN operational mode.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum average radiated EIRP output powers as follows:

GSM

FCC Part 24							
Band	ANT	Frequency Range [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
GSM 1900	B	1850.20 ~ 1909.80	GPRS	30.05	1011.58	29.17	826.04
			EGPRS	25.98	396.28	26.23	419.76

LTE Band 2

FCC Part 24								
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 2	B	1860.0 ~ 1900.0	20	QPSK	23.83	241.55	22.42	174.58
				16QAM	23.25	211.35	21.59	144.21
				64QAM	21.79	151.01		
		1857.5 ~ 1902.5	15	QPSK	23.81	240.44	22.55	179.89
				16QAM	23.24	210.86	21.92	155.60
				64QAM	22.03	159.59		
		1855.0 ~ 1905.0	10	QPSK	23.91	246.04	22.62	182.81
				16QAM	23.51	224.39	21.89	154.53
				64QAM	22.24	167.49		
		1852.5 ~ 1907.5	5	QPSK	24.05	254.10	22.38	172.98
				16QAM	23.37	217.27	21.52	141.91
				64QAM	22.44	175.39		
		1851.5 ~ 1908.5	3	QPSK	23.93	247.17	22.48	177.01
				16QAM	23.37	217.27	21.71	148.25
				64QAM	22.44	175.39		
		1850.7 ~ 1909.3	1.4	QPSK	23.96	248.89	22.35	171.79
				16QAM	23.18	207.97	21.65	146.22
				64QAM	22.25	167.88		

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a internal antenna for the supported bands with a maximum peak gain as follow:

Frequency (MHz)	ANT	Peak Gain (dBi)
GSM1900 / LTE Band 2 1850 - 1910 MHz	B	-2.1

5.4. WORST-CASE ORIENTATION

Following Modes should be considered as worst-case scenario for all other measurements.

- GSM GPRS/EGPRS
The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on GPRS and EGPRS modulations. It was found GPRS results were worst case.
- LTE Band 2
The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM and 64QAM modulations. It was found QPSK and 16QAM results were worst case.
- Conducted Spurious Emission

Highest conducted output power setting for each bands						
LTE Band	ANT	Frequency (MHz)	Bandwidth (MHz)	Modulation	RB size	RB offset
2	B	1852.50	5	QPSK	1	12
		1880.00			1	12
		1907.50			1	12

- Radiated Spurious Emission

Highest EIRP setting for each bands						
LTE Band	ANT	Frequency (MHz)	Bandwidth (MHz)	Modulation	RB size	RB offset
2	B	1855.00	10	QPSK	1	25
		1880.00			1	49
		1905.00			1	49

The fundamental and radiated spurious emission were investigated in three orthogonal orientations X, Y and Z, it was determined that below orientation was worst-case orientation for each band.

Band	ANT	EIRP			RSE		
		X	Y	Z	X	Y	Z
GSM 1900	B	O	-	-	-	O	-
LTE B2	B	O	-	-	O	-	-

Note1 : For the radiated spurious testing, the EUT attached with travel adapter for the worst case condition. The EUT is continuously communicated with the call box during the tests.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacture	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA800	R37XBMJF8FBDKA	N/A
Data Cable	SAMSUNG	EP-DN980B	N/A	N/A

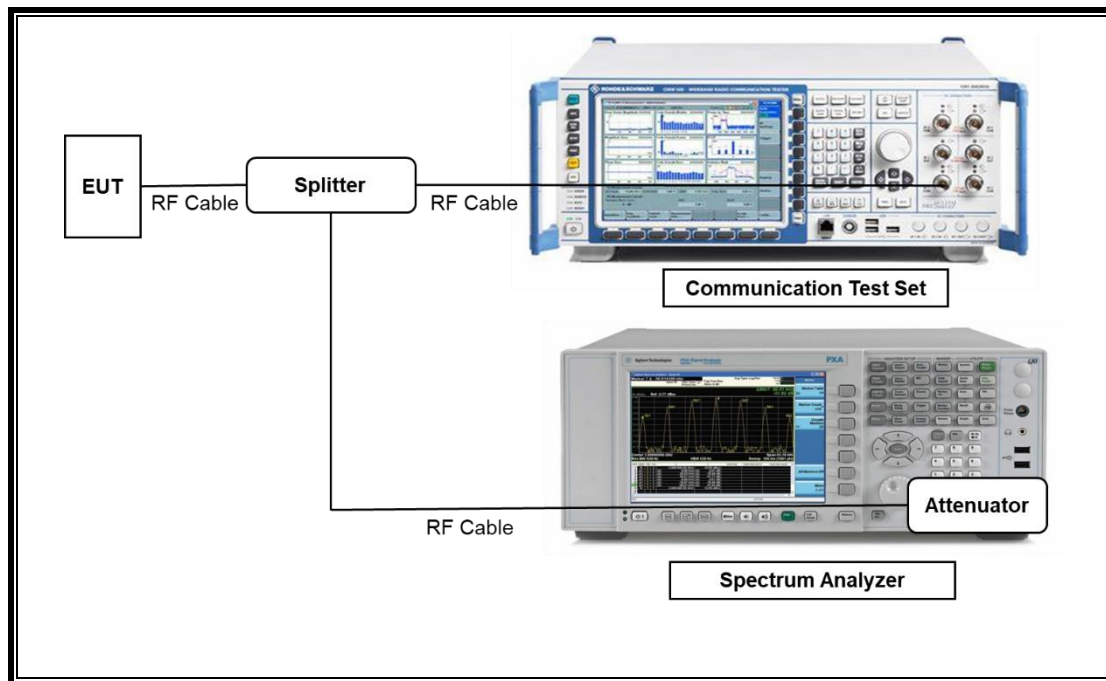
I/O CABLE

I/O Cable List						
Cable No.	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	C Type	Shielded	1.0 m	N/A

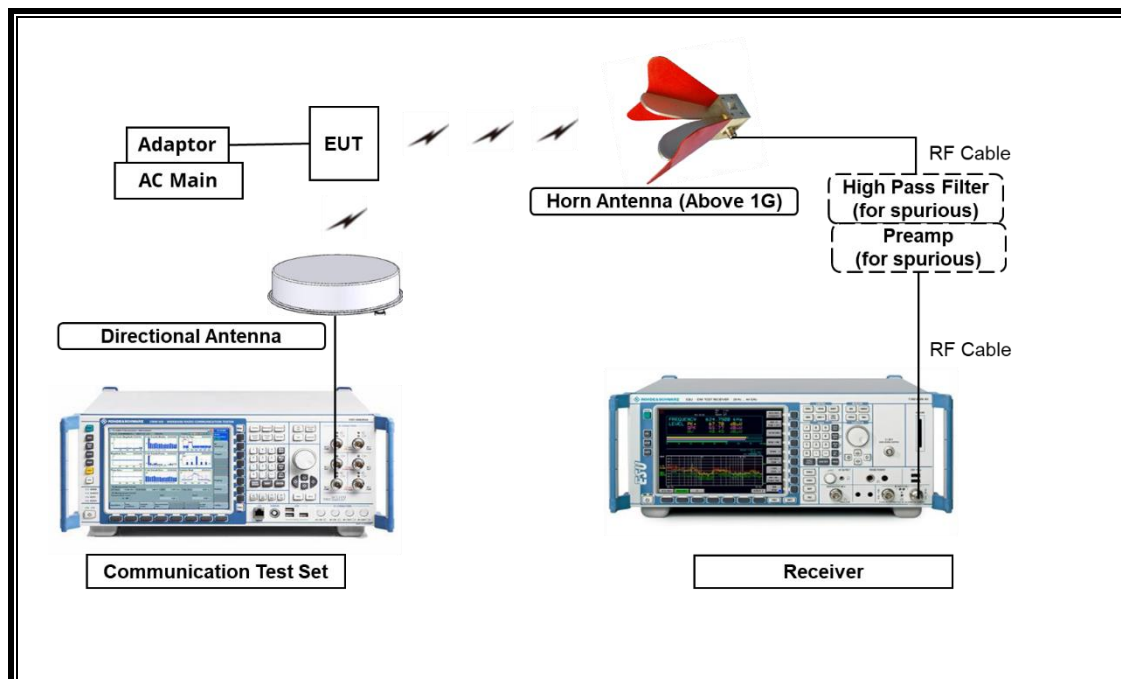
TEST SETUP

The EUT is continuously communicated with the call box during the tests.

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	S/N	Cal Due
Antenna, Tuned Dipole 400~1000 MHz	ETS	3121D DB-4	00164753	2027-01-08
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	110367-0003	N/A
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	80108-0004	N/A
Antenna, Horn, 40 GHz	ETS	3116C	00166155	2026-07-23
Antenna, Horn, 40 GHz	ETS	3116C	00168645	2025-10-06
Preamplifier	ETS	3116C-PA	00168841	2025-07-25
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	750	2026-07-30
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	845	2026-07-30
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	749	2026-08-12
Antenna, Horn, 18 GHz	ETS	3115	00167211	2026-07-17
Antenna, Horn, 18 GHz	ETS	3115	00161451	2026-07-17
Antenna, Horn, 18 GHz	ETS	3117	00168724	2026-07-17
Antenna, Horn, 18 GHz	ETS	3117	00168717	2026-07-17
Communications Test Set	R&S	CMW500	169797	2025-07-23
DC Power Supply	Agilent / HP	E3640A	MY54226395	2025-07-24
Preamplifier, 1000 MHz	Sonoma	310N	341282	2025-07-22
Preamplifier, 1000 MHz	Sonoma	310N	370599	2025-07-22
Preamplifier, 1000 MHz	Sonoma	310N	351741	2025-07-22
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2025-07-23
Preamplifier, 18 GHz	B&Z Technologies, LLC	BZR-01001800-231040-182020	28451	2025-07-22
Preamplifier, 18 GHz	B&Z Technologies, LLC	BZR-01001800-231040-181515	23576	2025-07-25
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	2025-07-24
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	2026-01-02
Spectrum Analyzer, 44 GHz	KEYSIGHT	N9030B	MY57143717	2025-07-23
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2025-07-23
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2025-07-22
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G005	2025-07-23
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	2025-07-23
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	2025-07-23
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	2025-07-23
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	2025-07-23
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	2025-07-23
Attenuator	PASTERNAK	PE7087-10	A009	2025-07-23
Attenuator	PASTERNAK	PE7087-10	A001	2025-07-23
Attenuator	PASTERNAK	PE7087-10	A008	2025-07-23
Attenuator	PASTERNAK	PE7004-10	2	2025-07-23
Attenuator	PASTERNAK	PE7395-10	A011	2025-07-25
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2	100418	2025-09-07
Temperature Chamber	ESPEC	SH-642	93001109	2025-07-23
Power Splitter	MINI-CIRCUITS	WA1534	UL003	2026-01-03
Power Splitter	MINI-CIRCUITS	WA1534	UL004	2026-01-03
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY57510655	2026-01-03
Notch Filter	MICRO-TRONICS	BRC50705-02	G024	2025-07-24
Notch Filter	MICRO-TRONICS	BRM50702-02	G036	2025-07-23
Notch Filter	MICRO-TRONICS	BRM50707-02	G002	2025-07-23
Notch Filter	MICRO-TRONICS	BRM50709-02	G001	2025-07-23
Notch Filter	MICRO-TRONICS	BRM50713-02	G001	2025-07-24
Notch Filter	MICRO-TRONICS	BRM50716-2	006	2025-07-23
UL Software				
Description	Manufacturer	Model	Version	
Antenna port test software	UL	CLT	Ver 3.4	
Radiated software	UL	UL EMC	Ver 9.5	
Antenna port test software (5G NR FR1)	UL	UL iM	Ver 1.06	

7. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Results
2.1046	Conducted Output Power	N/A	Conducted	Complies
2.1049	Occupied Bandwidth (99%)	N/A		Complies
24.238(a)	Conducted Band Edge / Conducted Spurious Emission	-13 dBm		Complies
24.235	Frequency Stability	2.5 ppm		Complies
24.232(c)	Effective Isotropic Radiated Power	33 dBm	Radiated	Complies
24.238(a)	Radiated Spurious Emission	-13 dBm		Complies

8. CONDUCTED RESULTS

8.1. CONDUCTED OUTPUT POWER

Test Procedure

Per KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to CMW500 Test Set and configured to operate at maximum power.

RESULTS

See the following pages.

8.1.1. CONDUCTED AVERAGE OUTPUT POWER

GSM

Mode	Coding Scheme	Time Slots	Maximum Average Power (dBm)			
			Measured		Tune-up Limit	
			Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GSM (Voice)	CS1	1	29.51	20.32	31.5	22.3
			30.05	20.86		
			29.83	20.64		
GPRS (GMSK)	CS1	1	29.51	20.32	31.5	22.3
			29.97	20.78		
			29.73	20.54		
		2	27.14	20.96	29.5	23.3
			27.67	21.49		
			27.43	21.25		
		3	25.51	21.09	28.0	23.6
			25.85	21.43		
			25.71	21.29		
		4	23.94	20.77	26.0	22.8
			25.65	22.48		
			25.24	22.07		
EGPRS (8PSK)	MCS5	1	25.85	16.66	26.0	16.8
			25.98	16.79		
			25.89	16.70		
		2	23.63	17.45	25.0	18.8
			24.15	17.97		
			23.72	17.54		
		3	21.69	17.27	23.0	18.6
			22.05	17.63		
			21.68	17.26		
		4	20.67	17.50	22.0	18.8
			21.31	18.14		
			21.13	17.96		

LTE Band 2

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				18700	18900	19100		
				1860.00 MHz	1880.00 MHz	1900.00 MHz		
20 MHz	QPSK	1	0	23.68	23.43	23.35	0.0	25.0
		1	49	23.83	23.54	23.45	0.0	25.0
		1	99	23.60	23.34	23.33	0.0	25.0
		50	0	22.81	22.65	22.54	1.0	24.0
		50	24	22.74	22.66	22.44	1.0	24.0
		50	50	22.71	22.56	22.44	1.0	24.0
	16QAM	100	0	22.72	22.56	22.49	1.0	24.0
		1	0	22.89	22.80	22.63	1.0	24.0
		1	49	23.25	22.98	22.77	1.0	24.0
		1	99	22.92	22.24	23.07	1.0	24.0
		50	0	21.72	21.63	21.55	2.0	23.0
		50	24	21.81	21.62	21.52	2.0	23.0
	64QAM	50	50	21.64	21.48	21.57	2.0	23.0
		100	0	21.80	21.62	21.56	2.0	23.0
		1	0	21.72	21.79	21.42	2.0	23.0
		1	49	21.65	21.69	21.48	2.0	23.0
		1	99	21.61	21.57	21.32	2.0	23.0
		50	0	20.74	20.57	20.47	3.0	22.0
15 MHz	QPSK	50	24	20.66	20.62	20.50	3.0	22.0
		50	50	20.77	20.39	20.36	3.0	22.0
		100	0	20.72	20.52	20.42	3.0	22.0
	16QAM	1	0	23.81	23.60	23.33	0.0	25.0
		1	37	23.56	23.47	23.38	0.0	25.0
		1	74	23.78	23.45	23.23	0.0	25.0
	64QAM	36	0	22.79	22.70	22.48	1.0	24.0
		36	20	22.80	22.66	22.49	1.0	24.0
		36	39	22.64	22.53	22.43	1.0	24.0
	16QAM	75	0	22.78	22.61	22.52	1.0	24.0
		1	0	23.24	22.92	22.38	1.0	24.0
		1	37	22.80	22.76	22.97	1.0	24.0
		1	74	23.10	22.75	22.49	1.0	24.0
		36	0	21.87	21.66	21.45	2.0	23.0
	64QAM	36	20	21.77	21.60	21.42	2.0	23.0
		36	39	21.75	21.62	21.45	2.0	23.0
		75	0	21.83	21.57	21.50	2.0	23.0
		1	0	21.87	21.57	21.27	2.0	23.0
		1	37	21.97	22.03	21.39	2.0	23.0
		1	74	21.66	21.79	21.27	2.0	23.0
	16QAM	36	0	20.74	20.46	20.43	3.0	22.0
		36	20	20.81	20.60	20.38	3.0	22.0
		36	39	20.69	20.39	20.38	3.0	22.0
		75	0	20.68	20.54	20.36	3.0	22.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				18650	18900	19150		
				1855.00 MHz	1880.00 MHz	1905.00 MHz		
10 MHz	QPSK	1	0	23.81	23.65	23.54	0.0	25.0
		1	25	23.91	23.64	23.39	0.0	25.0
		1	49	23.84	23.78	23.65	0.0	25.0
		25	0	22.98	22.77	22.68	1.0	24.0
		25	12	22.94	22.74	22.69	1.0	24.0
		25	25	22.97	22.76	22.62	1.0	24.0
	16QAM	50	0	22.92	22.70	22.64	1.0	24.0
		1	0	23.14	23.51	23.14	1.0	24.0
		1	25	23.31	23.25	23.01	1.0	24.0
		1	49	23.43	22.85	22.88	1.0	24.0
		25	0	22.03	21.75	21.59	2.0	23.0
		25	12	21.93	21.82	21.67	2.0	23.0
	64QAM	25	25	21.99	21.68	21.53	2.0	23.0
		50	0	21.94	21.79	21.57	2.0	23.0
		1	0	21.81	21.88	21.71	2.0	23.0
		1	25	21.88	21.88	21.77	2.0	23.0
		1	49	22.24	21.73	21.57	2.0	23.0
		25	0	20.97	20.73	20.49	3.0	22.0
		25	12	20.88	20.73	20.64	3.0	22.0
		25	25	20.83	20.62	20.59	3.0	22.0
		50	0	20.88	20.68	20.52	3.0	22.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				18625	18900	19175		
				1852.50 MHz	1880.00 MHz	1907.50 MHz		
5 MHz	QPSK	1	0	23.92	23.61	23.45	0.0	25.0
		1	12	24.05	23.76	23.48	0.0	25.0
		1	24	23.96	23.67	23.47	0.0	25.0
		12	0	23.01	22.72	22.57	1.0	24.0
		12	7	23.04	22.75	22.59	1.0	24.0
		12	13	23.00	22.74	22.61	1.0	24.0
	16QAM	25	0	22.96	22.78	22.55	1.0	24.0
		1	0	22.94	22.89	22.79	1.0	24.0
		1	12	23.25	23.30	22.98	1.0	24.0
		1	24	23.37	23.00	22.96	1.0	24.0
		12	0	21.86	21.87	21.62	2.0	23.0
		12	7	22.02	21.75	21.55	2.0	23.0
	64QAM	12	13	22.01	21.89	21.63	2.0	23.0
		25	0	21.92	21.74	21.61	2.0	23.0
		1	0	21.85	21.70	21.63	2.0	23.0
		1	12	22.44	21.72	21.72	2.0	23.0
		1	24	21.91	21.66	21.43	2.0	23.0
		12	0	20.92	20.66	20.47	3.0	22.0
		12	7	21.02	20.78	20.52	3.0	22.0
		12	13	20.90	20.74	20.54	3.0	22.0
		25	0	20.96	20.65	20.60	3.0	22.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				18615	18900	19185		
				1851.50 MHz	1880.00 MHz	1908.50 MHz		
3 MHz	QPSK	1	0	23.93	23.59	23.46	0.0	25.0
		1	8	23.92	23.65	23.59	0.0	25.0
		1	14	23.88	23.61	23.47	0.0	25.0
		8	0	23.00	22.77	22.58	1.0	24.0
		8	4	22.97	22.76	22.51	1.0	24.0
		8	7	22.98	22.73	22.54	1.0	24.0
	16QAM	15	0	22.94	22.77	22.59	1.0	24.0
		1	0	23.23	23.10	22.85	1.0	24.0
		1	8	23.31	23.24	22.98	1.0	24.0
		1	14	23.07	23.02	22.49	1.0	24.0
		8	0	22.18	21.82	21.68	2.0	23.0
		8	4	22.05	21.99	21.73	2.0	23.0
	64QAM	8	7	22.03	21.75	21.62	2.0	23.0
		15	0	22.02	21.77	21.47	2.0	23.0
		1	0	22.41	21.79	21.74	2.0	23.0
		1	8	22.57	22.02	21.77	2.0	23.0
		1	14	21.93	21.79	21.65	2.0	23.0
		8	0	21.01	20.72	20.55	3.0	22.0
1.4 MHz	QPSK	8	4	21.05	20.77	20.59	3.0	22.0
		8	7	20.90	20.88	20.60	3.0	22.0
		15	0	20.96	20.64	20.55	3.0	22.0
	16QAM	1	0	23.79	23.67	23.52	0.0	25.0
		1	3	23.96	23.67	23.49	0.0	25.0
		1	5	23.90	23.60	23.46	0.0	25.0
	64QAM	3	0	23.94	23.80	23.48	1.0	24.0
		3	1	23.93	23.70	23.52	1.0	24.0
		3	3	23.95	23.69	23.47	1.0	24.0
	16QAM	6	0	22.92	22.73	22.54	1.0	24.0
		1	0	23.18	23.16	22.60	1.0	24.0
		1	3	23.17	23.00	22.85	1.0	24.0
		1	5	23.13	22.79	22.98	1.0	24.0
	64QAM	3	0	23.05	22.66	22.59	2.0	23.0
		3	1	23.08	22.82	22.62	2.0	23.0
		3	3	23.13	22.80	22.68	2.0	23.0
		6	0	21.96	21.79	21.76	2.0	23.0
	16QAM	1	0	22.10	21.96	21.51	2.0	23.0
		1	3	22.25	21.41	21.84	2.0	23.0
		1	5	21.92	21.65	21.89	2.0	23.0
	64QAM	3	0	22.06	21.79	21.59	3.0	22.0
		3	1	22.06	21.58	21.64	3.0	22.0
		3	3	21.88	21.53	21.70	3.0	22.0
		6	0	20.89	20.75	20.44	3.0	22.0

8.2. PEAK TO AVERAGE RATIO

Test Procedure

Per KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to CMW500 Test Set and configured to operate at maximum power. The PAR were measured on the Spectrum Analyzer.

Test Spec

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

NOTE

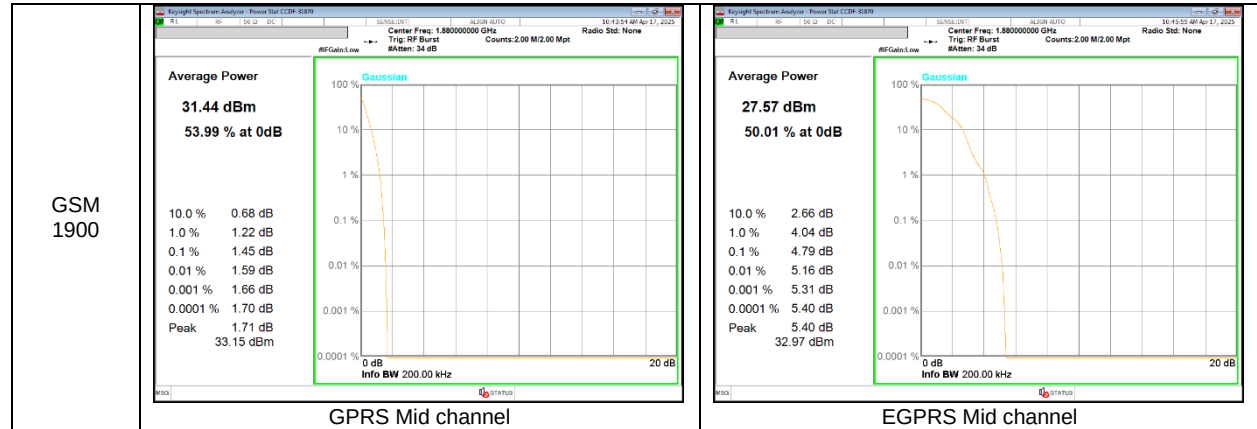
LTE: All modulations were investigated and the worst modulations (QPSK, 64QAM) are reported.

RESULTS

See the following pages.

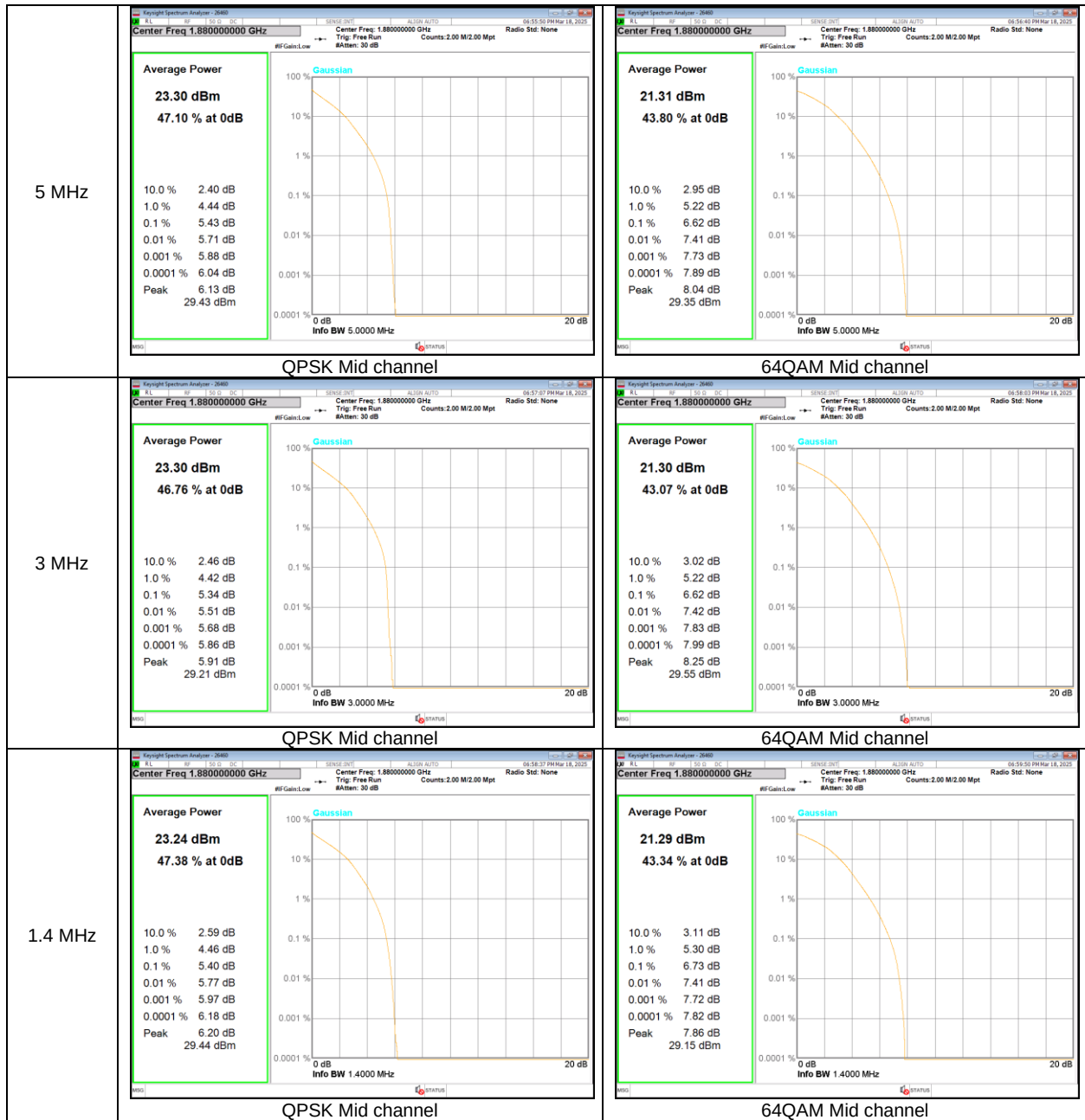
8.2.1. CONDUCTED PEAK TO AVERAGE RESULT

GSM



LTE Band 2





8.3. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at middle channel in each band. The -26dB bandwidth was also measured and recorded.

(KDB 971168 D01 Power Meas License Digital Systems v03r01)

RESULTS

See the following pages.

- **GSM**

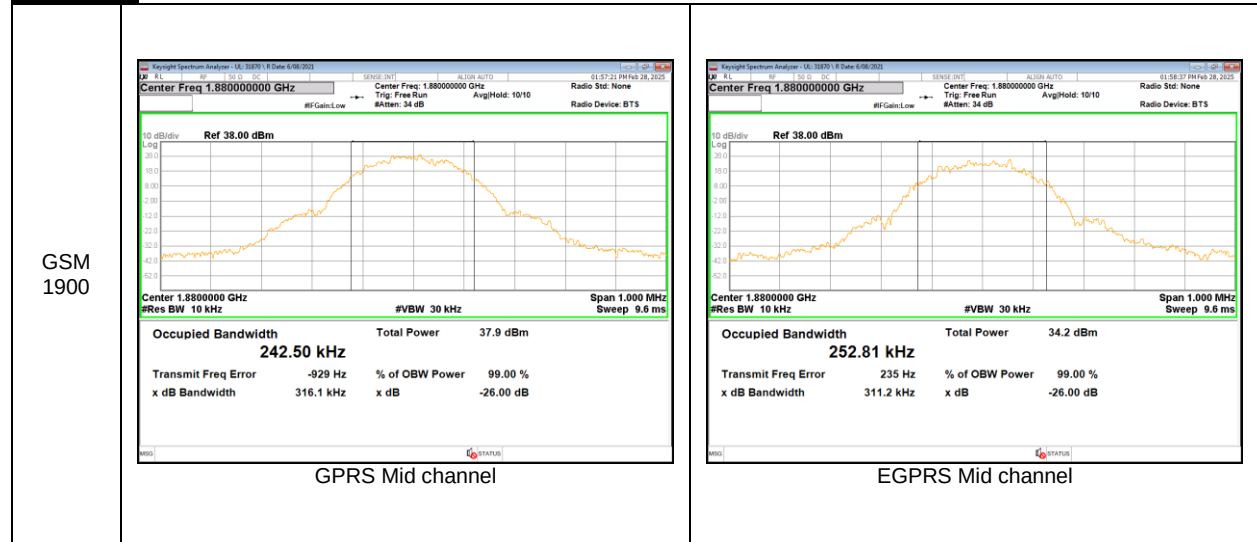
Band	Modulation	f [MHz]	99% BW (kHz)	-26dB BW (kHz)
1900	GPRS	1880.00	242.50	316.10
	EGPRS		252.81	311.20

- **LTE Band 2**

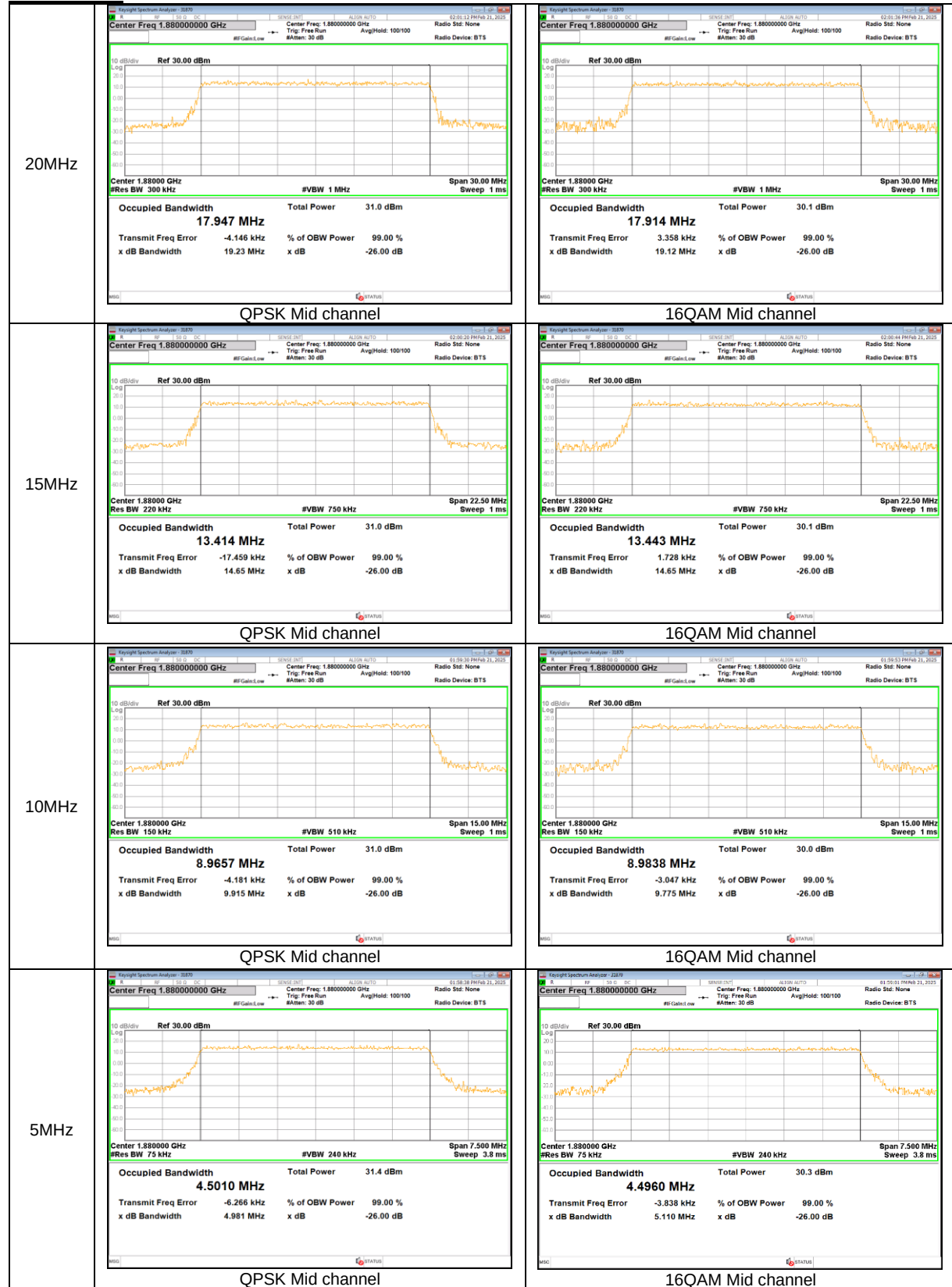
Band	BW	Modulation	f [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B2	20M	QPSK	1880.00	17.947	19.230
		16QAM		17.914	19.120
	15M	QPSK		13.414	14.650
		16QAM		13.443	14.650
	10M	QPSK		8.966	9.915
		16QAM		8.984	9.775
	5M	QPSK		4.501	4.981
		16QAM		4.496	5.110
	3M	QPSK		2.696	3.025
		16QAM		2.696	2.978
	1.4M	QPSK		1.088	1.309
		16QAM		1.091	1.298

8.3.1. OCCUPIED BANDWIDTH RESULT

GSM 1900



LTE Band 2





8.4. BAND EDGE EMISSIONS

RULE PART

FCC: §24.238

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.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

The transmitter output was connected to CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

GSM

- a) Set the RBW = 1 - 5% of OBW(GSM1900 – 9.1kHz)
/ within 1 MHz from the edge of the authorized frequency block/band.
- b) Set the RBW = 1 MHz / above 1 MHz from the edge of the authorized frequency block/band.
- c) Set VBW $\geq 3 \times$ RBW;
- d) Set span $\geq 2 \times$ OBW;
- e) Sweep time = 1S ;
- f) Detector = RMS;
- g) Ensure that the number of measurement points $\geq 2 \times$ span/RBW;
- h) Trace Mode = Average(100);
- i) Add duty cycle correction factor (9dB)

LTE

- a) Set the RBW = 1 - 1.5 % of OBW (Typically limited to a minimum RBW of 1% of the OBW)
/ within 1 MHz from the edge of the authorized frequency block/band.
- b) Set the RBW = 1 MHz / above 1 MHz from the edge of the authorized frequency block/band.
- c) Set VBW $\geq 3 \times$ RBW;
- d) Set span $\geq 2 \times$ OBW;
- e) Sweep time = Auto;
- f) Detector = RMS;
- g) Ensure that the number of measurement points $\geq 2 \times$ span/RBW;
- h) Trace Mode = Average (100);

NOTE1

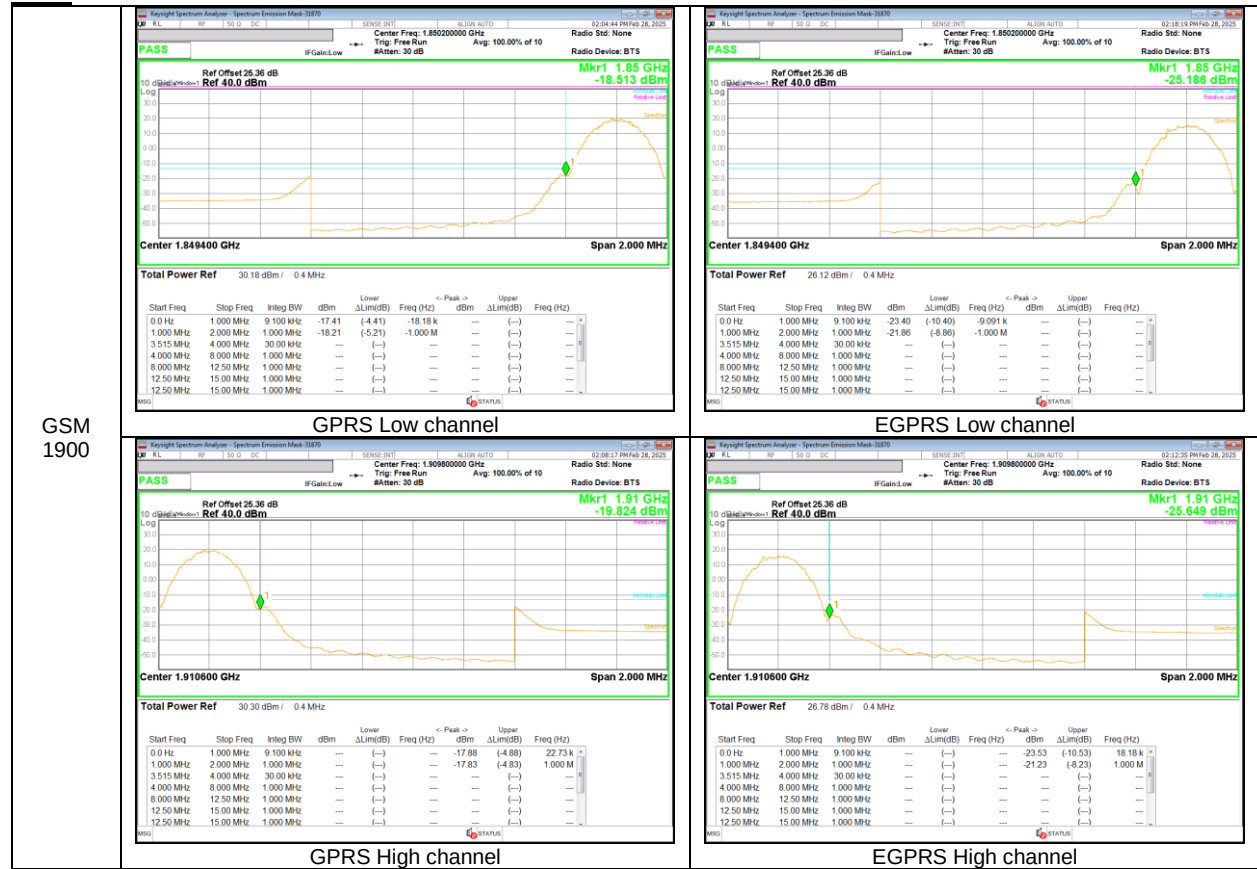
Note that the spurious emissions outside of the channel include narrowband signals. These signals are all below the -13dBm limits. Although the measurement bandwidth is less than the reference bandwidth of 1MHz no addental correction is applied as ANSI C63.26 section 4.2.3 only requires the correction to be applied when the OBW of the emission being measured is wider than the measurement bandwidth (Where the OBW of the signal under measurement is less than the RBW of the measuring instrument, no bandwidth correction or integration will be required.) Plots for low and high channels show the level of the emission measured with the reduced bandwidth and the level of the same emission measured using the integration method over the 1MHz reference bandwidth are very close, indicating the emissions are narrowband.

RESULTS

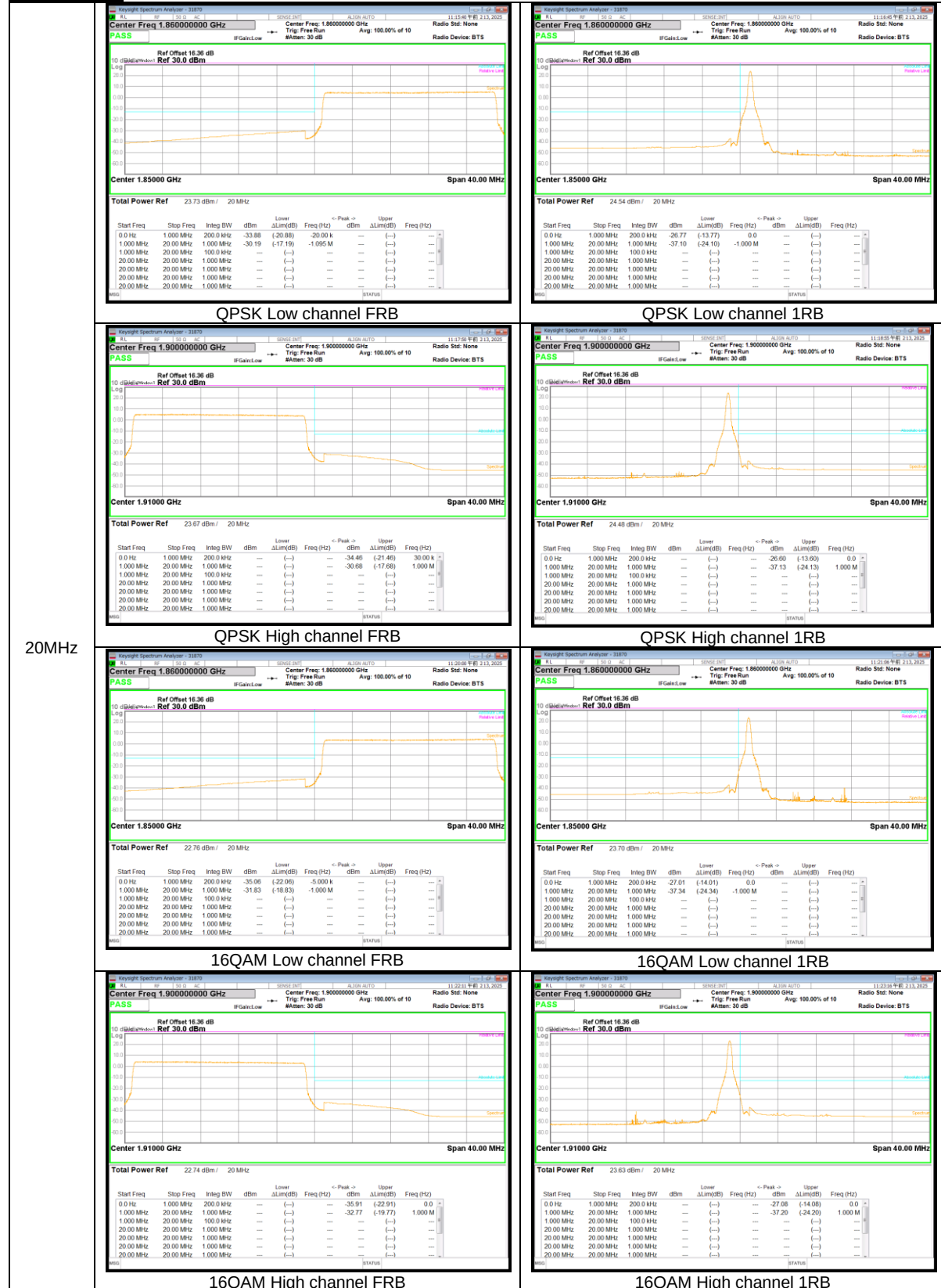
See the following pages.

8.4.1. BAND EDGE RESULT

GSM

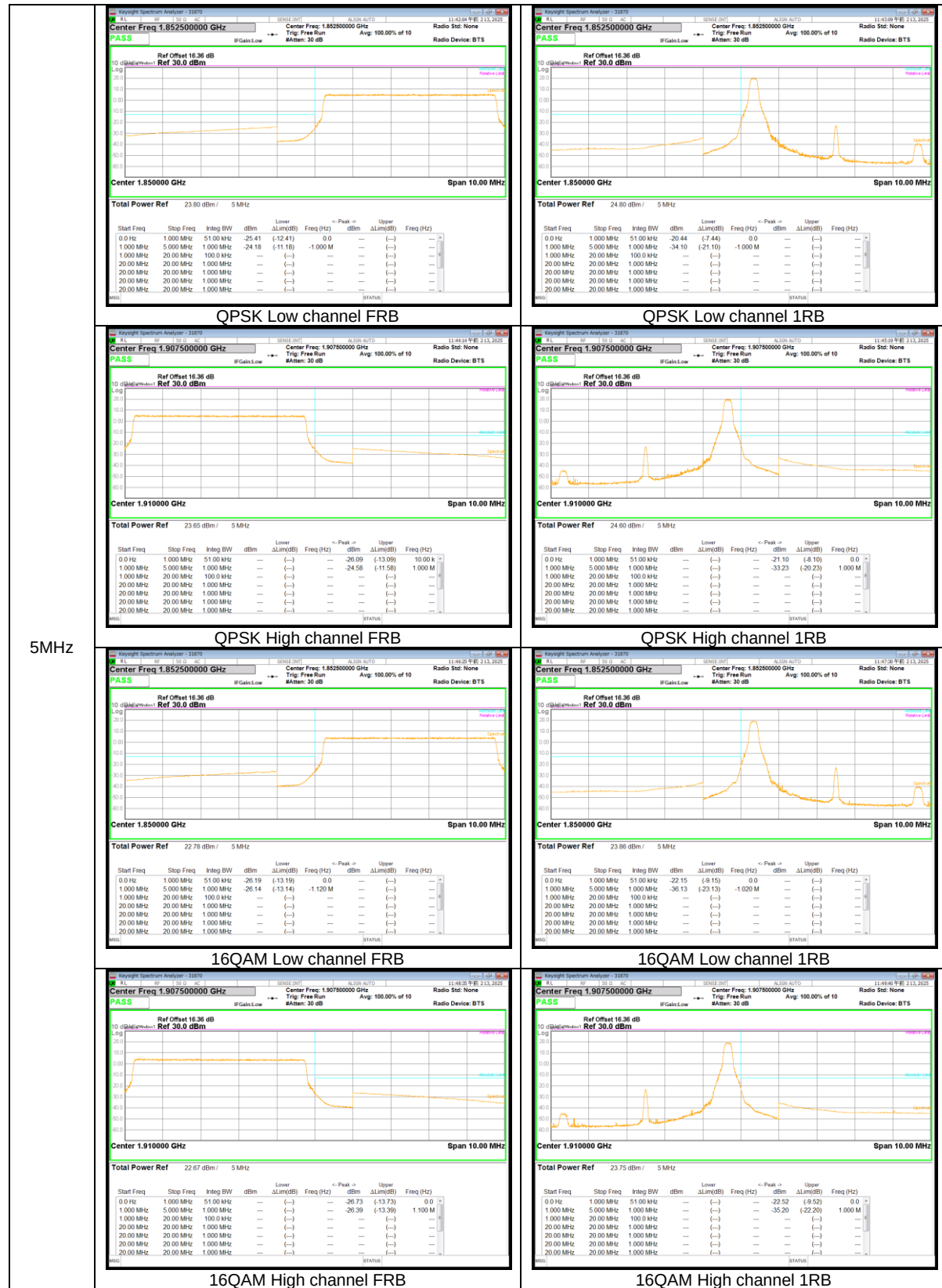


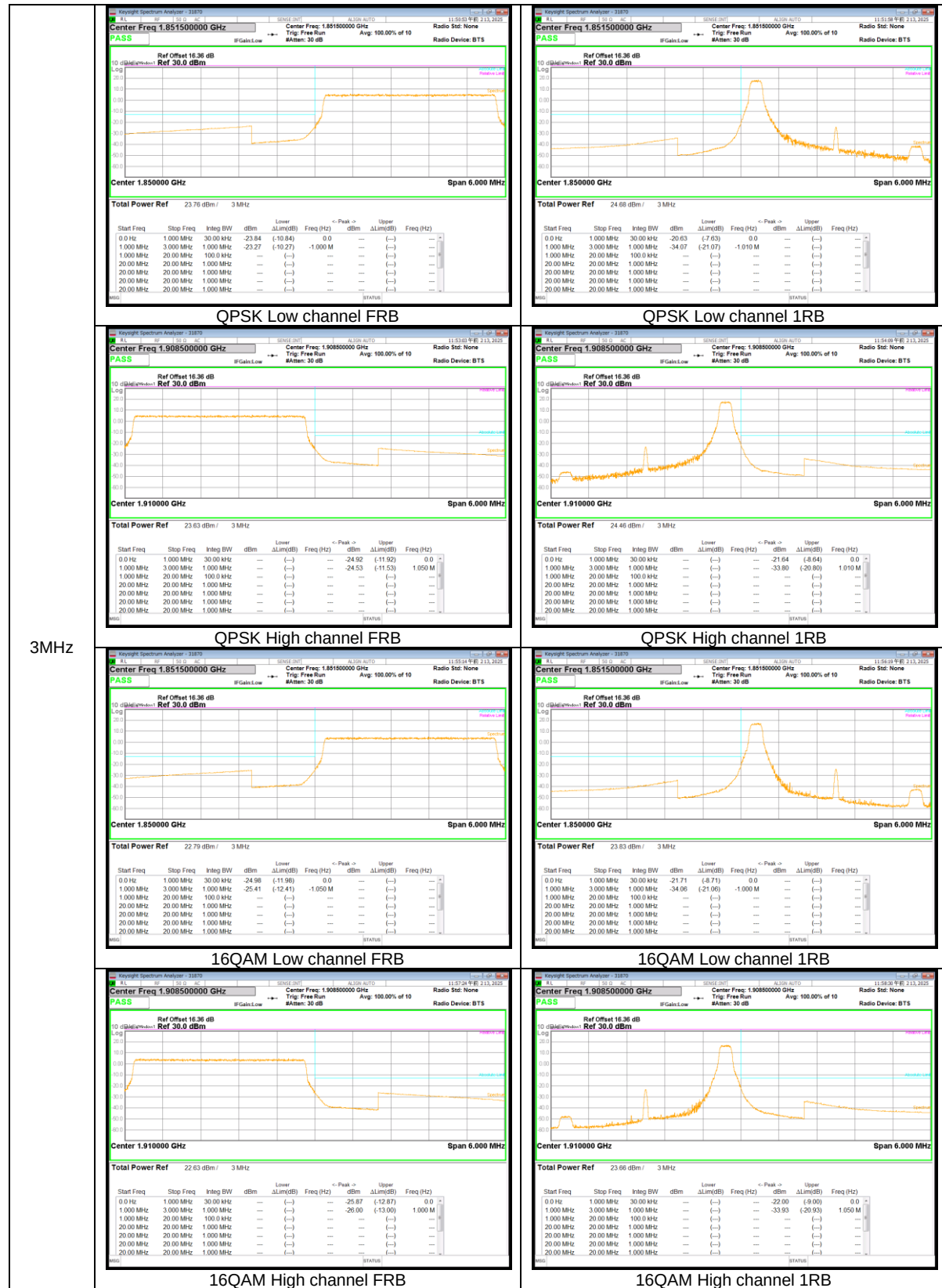
LTE Band 2

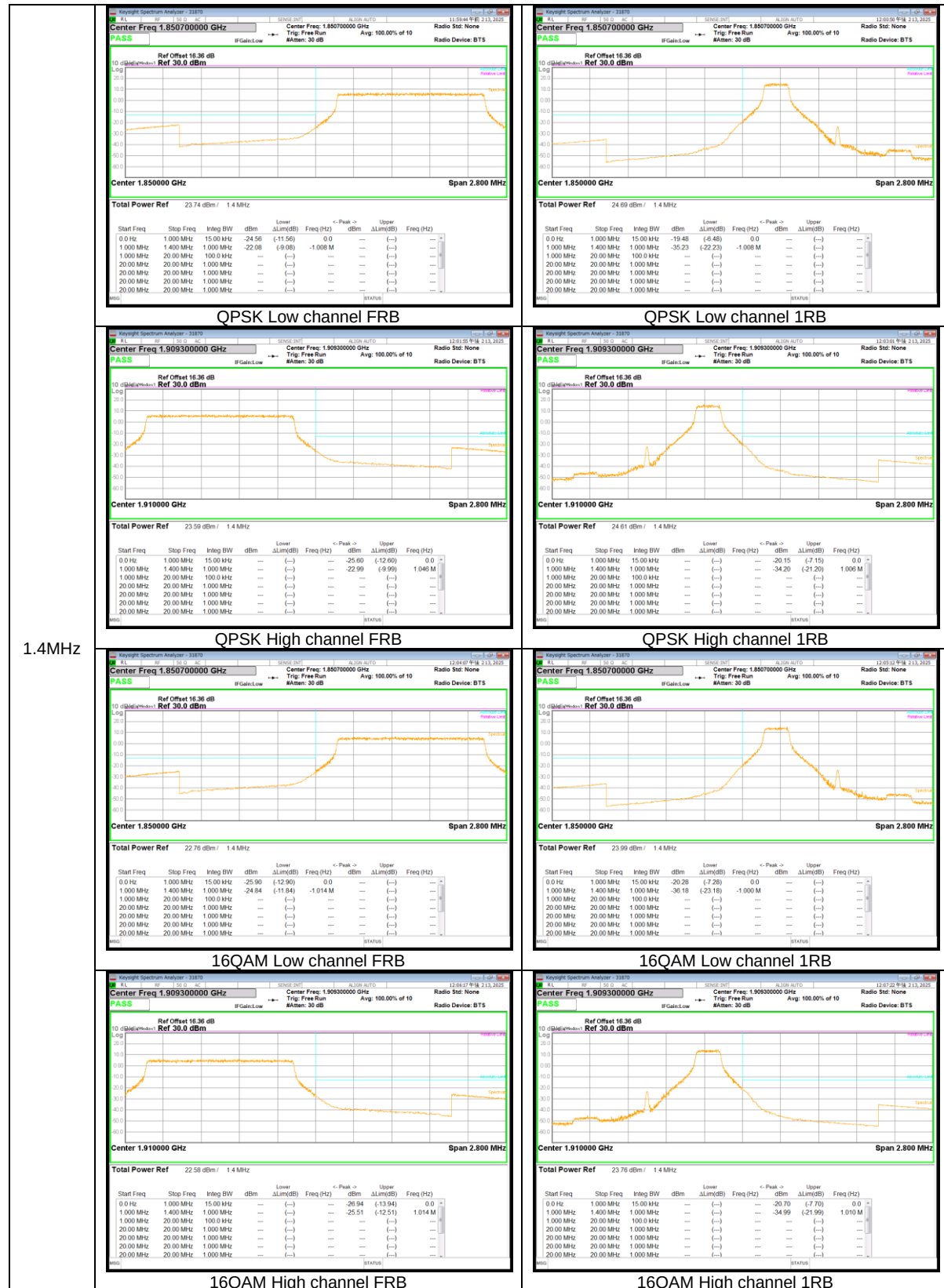












8.5. CONDUCTED SPURIOUS EMISSIONS

RULE PART(S)

FCC: §2.1051, §24.238

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.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold Mode using a peak detector to ensure that the worst-case emissions were caught.

GSM

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

LTE

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

NOTE1

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

LTE: It was tested at 1RB QPSK as worst case (the highest output power and density).

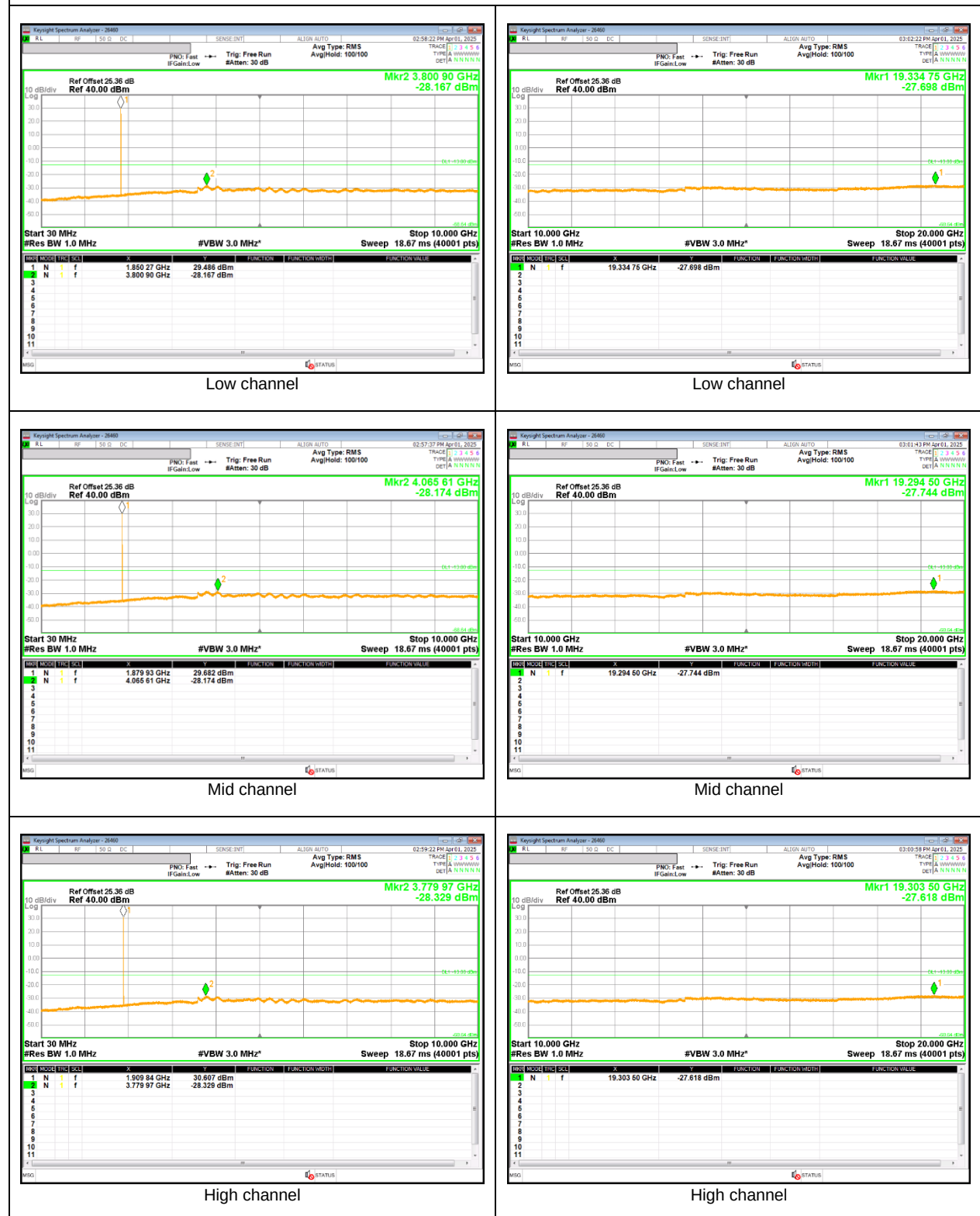
NOTE2

Please refer to section 5.4 for bandwidth and RB setting about LTE bands.

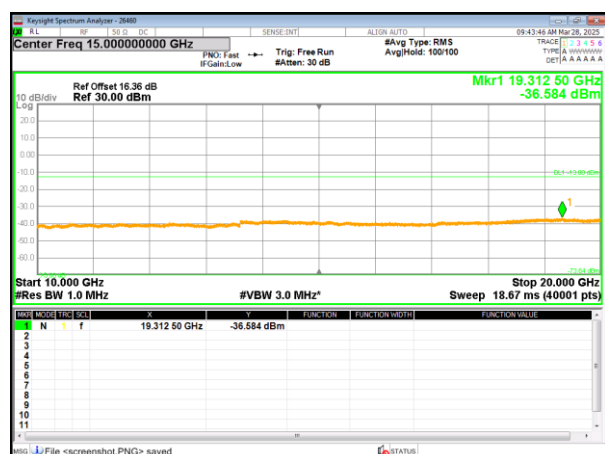
8.5.1. OUT OF BAND EMISSIONS RESULT

GSM 1900

GPRS

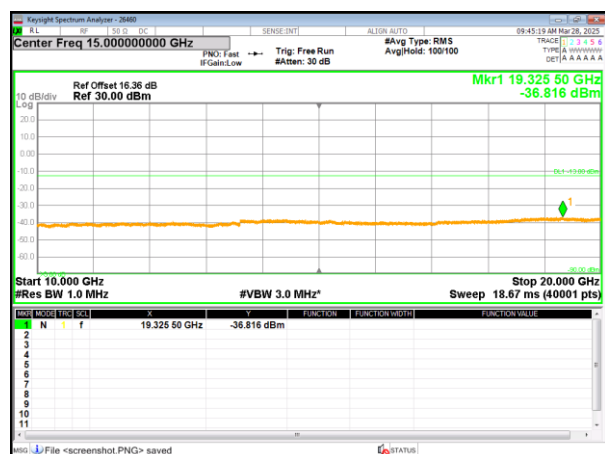


5MHz QPSK



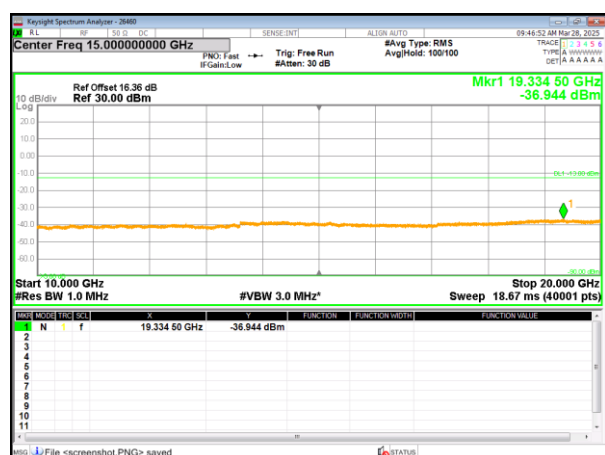
Low channel

Low channel



Mid channel

Mid channel



High channel

High channel

8.6. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §24.235

LIMITS

§24.235

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

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

NOTE

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

RESULTS

See the following pages.

8.6.1. FREQUENCY STABILITY RESULT

GSM 1900, Channel 512/810, Frequency 1850.0/1910.0 MHz
(Lowest Frequency: EGPRS / Highest Frequency: GPRS)

Test Date	2025-03-05
Test Engineer	47989

Limit		1850	1910	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	1850.0779	1909.9209		
Extreme (50C)		1850.0779	1909.9209	32.4	0.017
Extreme (40C)		1850.0779	1909.9209	33.1	0.018
Extreme (30C)		1850.0779	1909.9209	33.5	0.018
Extreme (10C)		1850.0779	1909.9209	33.8	0.018
Extreme (0C)		1850.0779	1909.9209	33.9	0.018
Extreme (-10C)		1850.0779	1909.9209	33.8	0.018
Extreme (-20C)		1850.0779	1909.9209	33.6	0.018
Extreme (-30C)		1850.0779	1909.9209	33.5	0.018
20C	15%	1850.0779	1909.9209	32.3	0.017
	-15%	1850.0779	1909.9209	32.4	0.017
	End Point	1850.0779	1909.9209	34.1	0.018

LTE Band 2 (Lowest Frequency: QPSK / Highest Frequency: 16QAM)

Test Date	2025-03-07
Test Engineer	47989

Limit		1850	1910	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	1850.1543	1909.8458		
Extreme (50C)		1850.1543	1909.8458	6.1	0.003
Extreme (40C)		1850.1543	1909.8458	6.2	0.003
Extreme (30C)		1850.1543	1909.8458	6.9	0.004
Extreme (10C)		1850.1543	1909.8458	6.3	0.003
Extreme (0C)		1850.1543	1909.8458	6.4	0.003
Extreme (-10C)		1850.1543	1909.8458	6.7	0.004
Extreme (-20C)		1850.1543	1909.8458	6.4	0.003
Extreme (-30C)		1850.1543	1909.8458	3.4	0.002
20C	15%	1850.1543	1909.8458	17.8	0.009
	-15%	1850.1543	1909.8458	29.6	0.016
	End Point	1850.1543	1909.8458	33.6	0.018

9. RADIATED RESULTS

9.1. RADIATED POWER (EIRP)

RULE PART(S)

FCC: §2.1046, §24.232

LIMITS

§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.

TEST PROCEDURE

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

For radiated output power measurement with a ESU40:

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

NOTE

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

TEST RESULTS

See the following pages.

9.1.1. EIRP RESULT

GSM

Band	Mode	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
GSM 1900	GPRS	1850.20	21.68	H	4.50	9.48	26.67	464.52	33.00	-6.33
		1880.00	23.19	H	4.53	9.20	27.86	610.94	33.00	-5.14
		1909.80	24.87	H	4.57	8.86	29.17	826.04	33.00	-3.83
	EGPRS	1850.20	19.19	H	4.50	9.48	24.18	261.82	33.00	-8.82
		1880.00	20.19	H	4.53	9.20	24.86	306.20	33.00	-8.14
		1909.80	21.93	H	4.57	8.86	26.23	419.76	33.00	-6.77

LTE Band 2

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	1860.00	17.08	H	4.51	9.39	21.96	157.04	33.00	-11.04	1/49
		1880.00	16.89	H	4.53	9.20	21.56	143.22	33.00	-11.44	1/49
		1900.00	17.97	H	4.55	9.01	22.42	174.58	33.00	-10.58	1/49
	16-QAM	1860.00	16.36	H	4.51	9.39	21.24	133.05	33.00	-11.76	1/49
		1880.00	16.15	H	4.53	9.20	20.82	120.78	33.00	-12.18	1/49
		1900.00	17.14	H	4.55	9.01	21.59	144.21	33.00	-11.41	1/99
15	QPSK	1857.50	17.64	H	4.50	9.41	22.55	179.89	33.00	-10.45	1/0
		1880.00	16.92	H	4.53	9.20	21.59	144.21	33.00	-11.41	1/0
		1902.50	17.65	H	4.56	8.97	22.06	160.69	33.00	-10.94	1/37
	16-QAM	1857.50	17.01	H	4.50	9.41	21.92	155.60	33.00	-11.08	1/0
		1880.00	16.36	H	4.53	9.20	21.03	126.77	33.00	-11.97	1/0
		1902.50	16.97	H	4.56	8.97	21.38	137.40	33.00	-11.62	1/37
10	QPSK	1855.00	17.43	H	4.50	9.43	22.36	172.19	33.00	-10.64	1/25
		1880.00	17.17	H	4.53	9.20	21.84	152.76	33.00	-11.16	1/49
		1905.00	18.25	H	4.56	8.93	22.62	182.81	33.00	-10.38	1/49
	16-QAM	1855.00	16.61	H	4.50	9.43	21.54	142.56	33.00	-11.46	1/49
		1880.00	16.30	H	4.53	9.20	20.97	125.03	33.00	-12.03	1/0
		1905.00	17.52	H	4.56	8.93	21.89	154.53	33.00	-11.11	1/0
5	QPSK	1852.50	17.15	H	4.50	9.46	22.11	162.55	33.00	-10.89	1/12
		1880.00	17.12	H	4.53	9.20	21.79	151.01	33.00	-11.21	1/12
		1907.50	18.05	H	4.56	8.89	22.38	172.98	33.00	-10.62	1/12
	16-QAM	1852.50	16.34	H	4.50	9.46	21.30	134.90	33.00	-11.70	1/24
		1880.00	16.28	H	4.53	9.20	20.95	124.45	33.00	-12.05	1/12
		1907.50	17.19	H	4.56	8.89	21.52	141.91	33.00	-11.48	1/12
3	QPSK	1851.50	16.91	H	4.50	9.47	21.88	154.17	33.00	-11.12	1/0
		1880.00	16.51	H	4.53	9.20	21.18	131.22	33.00	-11.82	1/8
		1908.50	18.16	H	4.56	8.88	22.48	177.01	33.00	-10.52	1/8
	16-QAM	1851.50	16.12	H	4.50	9.47	21.09	128.53	33.00	-11.91	1/8
		1880.00	15.81	H	4.53	9.20	20.48	111.69	33.00	-12.52	1/8
		1908.50	17.40	H	4.56	8.88	21.71	148.25	33.00	-11.29	1/8
1.4	QPSK	1850.70	17.04	H	4.50	9.48	22.02	159.22	33.00	-10.98	1/3
		1880.00	16.83	H	4.53	9.20	21.50	141.25	33.00	-11.50	1/0
		1909.30	18.05	H	4.57	8.87	22.35	171.79	33.00	-10.65	1/0
	16-QAM	1850.70	16.30	H	4.50	9.48	21.28	134.28	33.00	-11.72	1/0
		1880.00	16.10	H	4.53	9.20	20.78	119.67	33.00	-12.22	1/0
		1909.30	17.35	H	4.57	8.87	21.65	146.22	33.00	-11.35	1/5
10	QPSK	1855.00	16.50	H	4.50	9.43	21.43	139.00	33.00	-11.57	50/0
		1880.00	15.97	H	4.53	9.20	20.64	115.88	33.00	-12.36	50/0
		1905.00	17.18	H	4.56	8.93	21.55	142.89	33.00	-11.45	50/0
15	16-QAM	1857.50	15.81	H	4.50	9.41	20.72	118.03	33.00	-12.28	75/0
		1880.00	15.15	H	4.53	9.20	19.82	95.94	33.00	-13.18	75/0
		1902.50	15.74	H	4.56	8.97	20.15	103.51	33.00	-12.85	75/0

9.2. RADIATED SPURIOUS EMISSION

RULE PART(S)

FCC: §2.1053, §24.238

LIMIT

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.

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

NOTE1

GSM : It was tested at GPRS 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).

NOTE2

Please refer to section 5.4 for bandwidth and RB setting about LTE bands.

RESULTS

See the following pages.

9.2.1. SPURIOUS RADIATION RESULT

GSM1900

GPRS	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4791655852 Date: 2025-02-26 Test Engineer: 28775 Configuration: EUT / AC Adapter, Y-Position Location: Chamber 1 Mode: GPRS 1900 MHz Harmonics Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1850.2MHz									
	3700.40	-5.9	V	3.0	44.2	1.0	-49.2	-13.0	-36.2	
	5550.60	-3.6	V	3.0	44.6	1.0	-47.2	-13.0	-34.2	
	7400.80	1.2	V	3.0	44.8	1.0	-42.6	-13.0	-29.6	
	3700.40	-6.1	H	3.0	44.2	1.0	-49.4	-13.0	-36.4	
	5550.60	-3.8	H	3.0	44.6	1.0	-47.4	-13.0	-34.4	
	7400.80	0.0	H	3.0	44.8	1.0	-43.8	-13.0	-30.8	
	Mid Ch, 1880MHz									
	3760.00	-5.5	V	3.0	44.3	1.0	-48.8	-13.0	-35.8	
	5640.00	-3.6	V	3.0	44.7	1.0	-47.2	-13.0	-34.2	
	7520.00	-0.2	V	3.0	44.7	1.0	-43.9	-13.0	-30.9	
	3760.00	-5.7	H	3.0	44.3	1.0	-49.0	-13.0	-36.0	
	5640.00	-3.5	H	3.0	44.7	1.0	-47.1	-13.0	-34.1	
	7520.00	-0.9	H	3.0	44.7	1.0	-44.7	-13.0	-31.7	
	High Ch, 1909.8MHz									
	3819.60	-5.2	V	3.0	44.4	1.0	-48.6	-13.0	-35.6	
	5729.40	-3.7	V	3.0	44.7	1.0	-47.3	-13.0	-34.3	
	7639.20	0.5	V	3.0	44.6	1.0	-43.2	-13.0	-30.2	
	3819.60	-5.8	H	3.0	44.4	1.0	-49.2	-13.0	-36.2	
	5729.40	-3.5	H	3.0	44.7	1.0	-47.1	-13.0	-34.1	
	7639.20	-0.2	H	3.0	44.6	1.0	-43.8	-13.0	-30.8	

LTE Band 2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791655852 Date: 2025-02-26 Test Engineer: 26087 Configuration: EUT / AC Adatper, X-Position Location: Chamber 1 Mode: LTE_QPSK Band 2 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
Low Ch, 1855MHz									
3710.00	-8.8	V	3.0	44.3	1.0	-52.1	-13.0	-39.1	
5565.00	-6.8	V	3.0	44.6	1.0	-50.4	-13.0	-37.4	
7420.00	-3.8	V	3.0	44.8	1.0	-47.6	-13.0	-34.6	
3710.00	-8.7	H	3.0	44.3	1.0	-52.0	-13.0	-39.0	
5565.00	-6.7	H	3.0	44.6	1.0	-50.4	-13.0	-37.4	
7420.00	-3.7	H	3.0	44.8	1.0	-47.5	-13.0	-34.5	
Mid Ch, 1880MHz									
3760.00	-8.7	V	3.0	44.3	1.0	-52.1	-13.0	-39.1	
5640.00	-6.3	V	3.0	44.7	1.0	-50.0	-13.0	-37.0	
7520.00	-3.7	V	3.0	44.7	1.0	-47.5	-13.0	-34.5	
3760.00	-8.6	H	3.0	44.3	1.0	-52.0	-13.0	-39.0	
5640.00	-6.4	H	3.0	44.7	1.0	-50.0	-13.0	-37.0	
7520.00	-3.7	H	3.0	44.7	1.0	-47.5	-13.0	-34.5	
High Ch, 1905MHz									
3810.00	-8.7	V	3.0	44.4	1.0	-52.0	-13.0	-39.0	
5715.00	-6.5	V	3.0	44.7	1.0	-50.2	-13.0	-37.2	
7620.00	-3.4	V	3.0	44.7	1.0	-47.0	-13.0	-34.0	
3810.00	-8.6	H	3.0	44.4	1.0	-52.0	-13.0	-39.0	
5715.00	-6.5	H	3.0	44.7	1.0	-50.2	-13.0	-37.2	
7620.00	-3.4	H	3.0	44.7	1.0	-47.0	-13.0	-34.0	

END OF REPORT