



RF TEST REPORT

Product Name: Smart phone

Model Name: TickTock-S, Golden Eye

FCC ID: 2AK6CTICKTOCK-S

Issued For : Shanghai Unihertz E-Commerce Co., Ltd

Room 308, Building C, 508Chundong Rd, Minhang district
Shanghai, China 201108

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Chen Hsong Industrial Park,
No.177 Renmin West Road, Jinsha Community, Kengzi
Street, Pingshan New District, Shenzhen, China

Report Number: LGT22K048RF017

Sample Received Date: Nov. 21, 2022

Date of Test: Nov. 21, 2022 – Feb. 23, 2023

Date of Issue: Feb. 23, 2023

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TEST REPORT CERTIFICATION

Applicant Shanghai Unihertz E-Commerce Co., Ltd
Address Room 308, Building C, 508Chundong Rd, Minhang district
Shanghai, China 201108
Manufacturer OBLUE Communication Technology Co., Ltd.
Address 7th floor, building B, dayou industrial and trade industrial
park, heping yonghe road, fuyong street, baoan district,
Shenzhen, China
Product Name Smart phone
Trademark Unihertz
Model Name TickTock-S, Golden Eye
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 22H and 24E, 27 KDB 971168 D01 v03r01, ANSI C63.26(2015)	PASS

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Revision History

Rev.	Issue Date	Contents
00	Feb. 23, 2023	Initial Issue

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of KDB 971168 D01 v03r01 and ANSI C63.26-2015

FCC Rules	Test Description	Test Limit	Test Result	Reference
2.1046	Conducted Output Power	Reporting Only	PASS	
22.913d 24.232d	Peak-to-Average Ratio	< 13 dB	PASS	
2.1046 22.913 24.232 27.50	Effective Radiated Power/Equivalent Isotropic Radiated Power	< 7 Watts max. ERP(Part 22) < 2 Watts max. EIRP(Part 24) <1 Watts max. EIRP(Part 27)	PASS	
2.1049 22.917 24.238 27.53	Occupied Bandwidth	Reporting Only	PASS	
2.1055 22.355 24.235 27.54	Frequency Stability	< 2.5 ppm (Part 22) Emission must remain in band (Part 24) Emission must remain in band (Part 27)	PASS	
2.1051 22.917 24.238 27.53	Spurious Emission at Antenna Terminals	< 43+10log10(P[Watts])	PASS	
2.1053 22.917 24.238 27.53	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	
2.1051 22.917 24.238 27.53	Band Edge	< 43+10log10(P[Watts])	PASS	

2 INTRODUCTION

2.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China
Accreditation Certificate	FCC Registration No.: 746540
	A2LA Certificate No.: 6727.01

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement data shown herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.68\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.988\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 2.84\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.39\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 5.10\text{dB}$
6	All emissions, radiated >6G	$\pm 5.48\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.79\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.80\text{dB}$

3. PRODUCT INFORMATION

Product Name	Smart phone
Trademark	Unihertz
Model Name	TickTock-S
Series Model	Golden Eye
Model Difference	The back of the TickTock-S is a 1.3-inch diameter circular screen with a resolution of 360*360. The back of the Golden Eye is a 500-lumen 1.3-inch diameter circular LED light (camping light).
Tx Frequency:	GSM/GPRS/EDGE: GSM 850: 824 MHz ~ 849MHz GSM 1900: 1850 MHz ~ 1910MHz WCDMA: Band V: 824 MHz ~ 849 MHz Band II: 1850 MHz ~ 1910 MHz Band IV: 1710 MHz ~ 1755 MHz CDMA&EVDO: BC0: 824.70 MHz~ 848.31 MHz BC1: 1851.25 MHz~ 1908.75 MHz
Rx Frequency:	GSM/GPRS/EDGE: 850: 869 MHz ~ 894 MHz 1900: 1930 MHz ~ 1990MHz WCDMA: Band V: 869 MHz ~ 894 MHz Band II: 1930 MHz ~ 1990 MHz Band IV: 2110 MHz ~ 2155 MHz CDMA&EVDO: BC0: 869.70 MHz~ 894.30 MHz BC1: 1931.25 MHz~ 1988.75 MHz
Modulation Characteristics:	GMSK for GSM/GPRS; GMSK and 8PSK for EDGE WCDMA: QPSK; HSDPA: QPSK/16QAM; HSUPA: BPSK CDMA&EVDO: QPSK/8PSK
SIM Card:	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested.
Antenna:	PIFA
Antenna gain:	2G 850: -2.1dBi 2G 1900: -2.8dBi 3G WCDMA BAND 2: -2.8dBi 3G WCDMA BAND 4: -3.3dBi 3G WCDMA BAND 5: -2.1dBi BC0: -2.1dBi BC1: -2.8dBi

Battery parameter:	Capacity: 5200mAh Rated Voltage: 3.85V
Adapter:	Input: 100-240V~50/60Hz, 0.8A Output: 5V, 3A OR 9V,3A OR 12V,2.75A, 33.0W MAX
GPRS/EDGE Class:	Multi-Class12
Extreme Vol. Limits:	3.55V to 4.35V (Nominal 3.85V)
Extreme Temp. Tolerance:	-0°C to +40°C
Hardware Version:	G89_V1.1
Software Version:	TickTock-S_20220921
** Note: The High Voltage 4.35 V and Low Voltage 3.55V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage, the antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.	

4 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850/WCDMA Band V/CDMA BC0/EVDO BC0.
2. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band I/CDMA BC1/EVDO BC1.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst-case configuration below:

	TEST MODES	
	RADIATED TCS	CONDUCTED TCS
BAND		
GSM 850	GSM LINK GPRS/EDGE CLASS 12 LINK	GSM LINK GPRS/EDGE CLASS 12 LINK
GSM 1900	GSM LINK GPRS/EDGE CLASS 12 LINK	GSM LINK GPRS/EDGE CLASS 12 LINK
WCDMA BAND V	RMC 12.2KBPS LINK	RMC 12.2KBPS LINK
WCDMA BAND IV	RMC 12.2KBPS LINK	RMC 12.2KBPS LINK
WCDMA BAND II	RMC 12.2KBPS LINK	RMC 12.2KBPS LINK
CDMA BC0/BC1	QPSK	QPSK
EVDO BC0/BC1	8PSK	8PSK

5 MEASUREMENT INSTRUMENTS

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2022.04.12	2023.04.11
Active loop Antenna	R&S	HFH2-Z2	POS871398181	2022.06.02	2024.06.01
Spectrum Analyzer	Keysight	N9010B	MY60242508	2022.04.29	2023.04.28
Wireless Communications Test Set	R&S	CMW 500	137737	2022.04.29	2023.04.28
Bilog Antenna	Schwarzbeck	VULB 9168	01447	2022.12.12	2024.12.11
Horn Antenna	Schwarzbeck	3115	10SL0060	2022.06.02	2024.06.01
Pre-amplifier(0.1M-3GHz)	HP	8447D	2727A05655	2022.04.11	2023.04.10
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2022.04.13	2023.04.12
RE Cable (9K-1G)	N.A	R01	N.A	2022.05.05	2023.05.04
RE Cable (1-26G)	N.A	R02	N.A	2022.05.05	2023.05.04
Wireless Communications Test Set	R&S	CMW 500	137737	2022.04.29	2023.04.28
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software	EMC-I_V1.4.0.3_SKET				

Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9010B	MY60242508	2022.04.29	2023.04.28
Wireless Communications Test Set	R&S	CMW 500	137737	2022.04.29	2023.04.28
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2022.06.02	2023.06.01
RF Automatic Test system	MW	MW100-RFCB	MW220324LG-33	2022.04.29	2023.04.28
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2022.05.10	2023.05.09
Attenuator	eastsheep	90db	N.A	2022.04.29	2023.04.28
Router	WAVLINK	WL-WN575A2	WL1512260336	N.C.R	N.C.R
Router	TP-LINK	TL-WR885N	1125074010735	N.C.R	N.C.R
Testing Software	MTS8200_V2.0.0.0				

Equipment with a calibration date of “NCR” shown in this list was not used to make direct calibrated measurements.

6 TEST ITEMS

6.1 CONDUCTED OUTPUT POWER

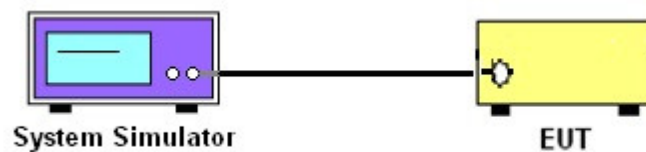
TEST OVERVIEW

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

TEST PROCEDURES

1. The transmitter output port was connected to the system simulator.
2. Set eut at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

TEST SETUP



TEST RESULT

Note: Test data See APPENDIX I.

6.2 PEAK TO AVERAGE RATIO

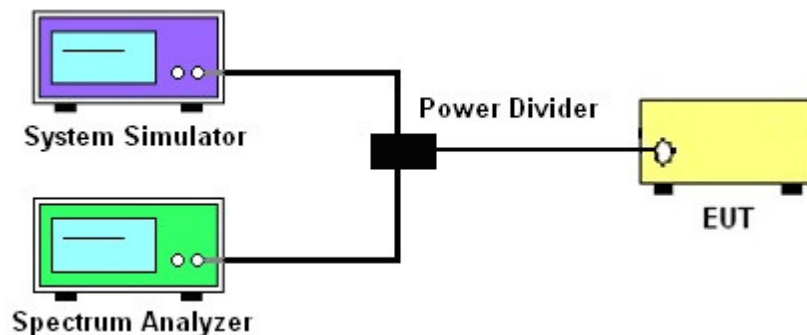
TEST OVERVIEW

According to §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 db.

TEST PROCEDURES

1. The testing follows FCC KDB 971168 v03r01 section.
2. The eut was connected to the peak and av system simulator& spectrum analyzer.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure average power of the spectrum analysis,

TEST SETUP



TEST RESULT

Note: Test data See APPENDIX I.

6.3 TRANSMITTER RADIATED POWER (EIRP/ERP)

TEST OVERVIEW

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26 2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

TEST PROCEDURE

1. The testing follows FCC KDB 971168 Section 5.8 and ANSI C63.26-2015 Section 5.2.
2. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
3. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
4. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
5. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a nonradiating cable. The absolute levels of the spurious emissions were measured by the substitution.
6. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to ANSI C63.26-2015. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna.
 $EIRP = S.G \text{ Level} + \text{Gain} - \text{Cable loss}$; $ERP = S.G \text{ Level} + \text{Gain} - \text{Cable loss} - 2.15$.

TEST RESULT

Note: Test data See APPENDIX I.

6.4 OCCUPIED BANDWIDTH

TEST OVERVIEW

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

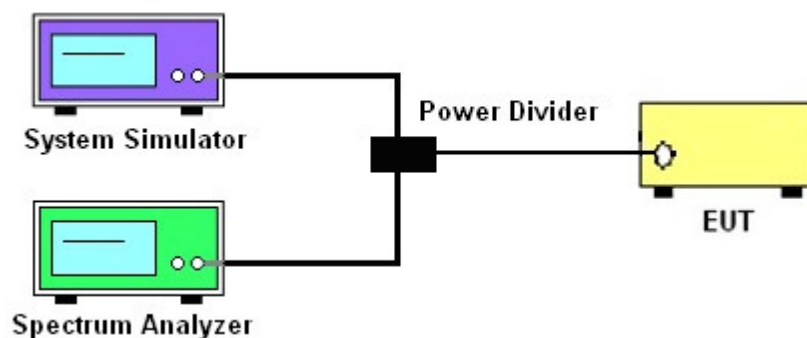
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

All modes of operation were investigated and the worst-case configuration results are reported in this section.

TEST PROCEDURE

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

TEST SETUP



TEST RESULT

Note: Test data See APPENDIX I.

6.5 FREQUENCY STABILITY

TEST OVERVIEW

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26 2015.

The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

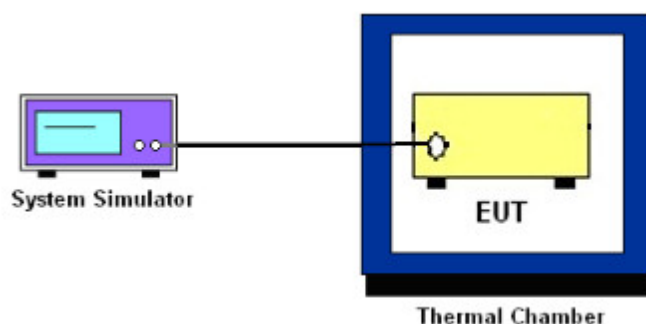
Temperature Variation

1. The testing follows FCC KDB 971168 D01 section 9.0
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

Voltage Variation

1. The testing follows FCC KDB 971168 D01 Section 9.0.
2. The EUT was placed in a temperature chamber at $25 \pm 5^\circ \text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

TEST SETUP



TEST RESULT

Note: Test data See APPENDIX I.

6.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

TEST OVERVIEW

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

TEST PROCEDURE

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26-2015-Section 5.7.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

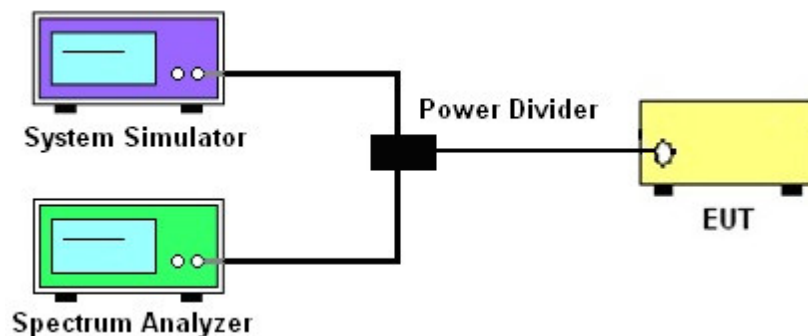
7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

TEST SETUP



TEST RESULT

Note: Test data See APPENDIX I.

6.7 BAND EDGE

TEST OVERVIEW

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

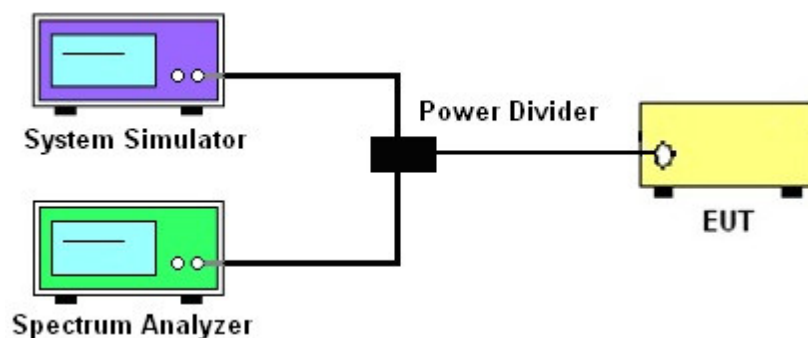
The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P[\text{Watts}])$, where P is the transmitter power in Watts.

TEST PROCEDURE

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26-2015-Section 5.7
2. Start and stop frequency were set such that the band edge would be placed in the center of the Plot.
3. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
4. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
5. The band edges of low and high channels for the highest RF powers were measured.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

TEST SETUP



TEST RESULT

Note: Test data See APPENDIX I.

6.8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

TEST OVERVIEW

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power and at the appropriate frequencies.

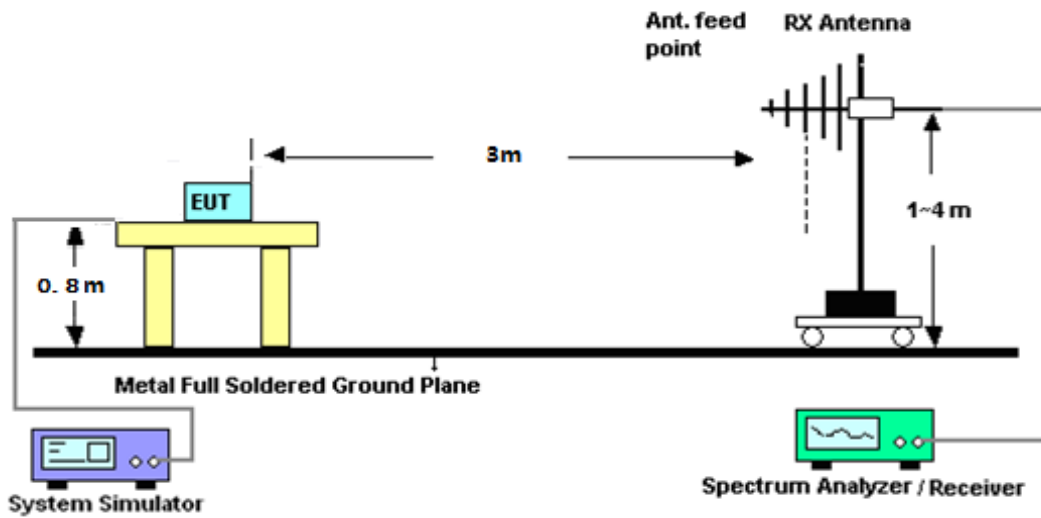
It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

TEST PROCEDURE

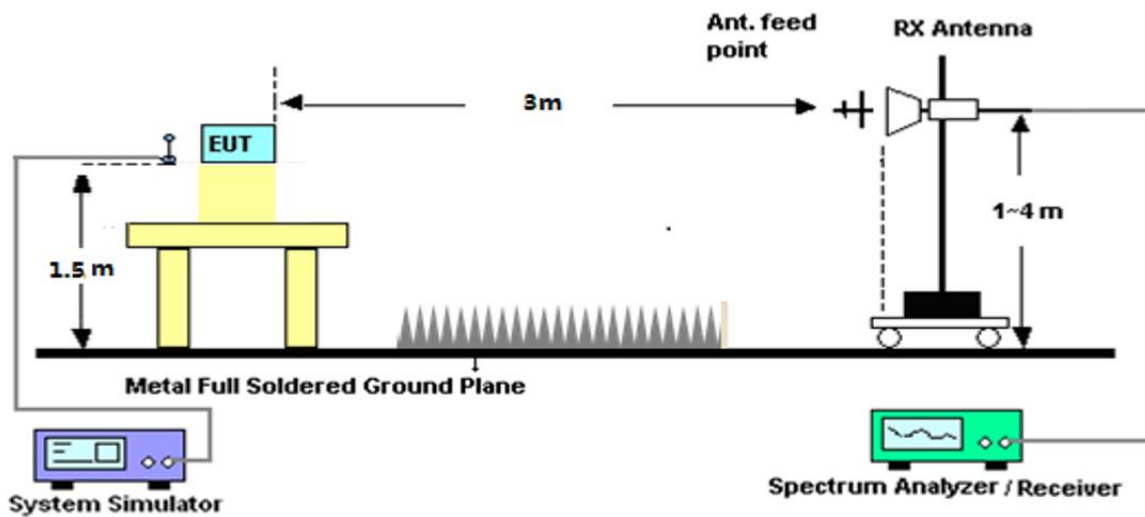
1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $> 2 \times$ span/RBW
6. Detector = Peak
7. Trace mode = max hold
8. The trace was allowed to stabilize
9. Effective Isotropic Spurious Radiation was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna.
 $P_{Mea} = S.G \text{ Level} + \text{Ant-Cable loss}$; $\text{Margin} = P_{Mea} - \text{Limit}$.

TEST SETUP

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



TEST RESULT

Note: Test data See APPENDIX I.

APPENDIX I. TESTRESULT

GSM

Conducted output power

Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP Limit (dBm)	Verdict
GSM850	128	824.2	31.41	-2.1	27.16	37	PASS
GSM850	190	836.6	31.57	-2.1	27.32	37	PASS
GSM850	251	848.8	31.83	-2.1	27.58	37	PASS
GPRS850 1 Slot	128	824.2	31.42	-2.1	27.17	38.45	PASS
GPRS850 1 Slot	190	836.6	31.6	-2.1	27.35	38.45	PASS
GPRS850 1 Slot	251	848.8	31.85	-2.1	27.6	38.45	PASS
GPRS850 2 Slot	128	824.2	30.94	-2.1	26.69	38.45	PASS
GPRS850 2 Slot	190	836.6	31.1	-2.1	26.85	38.45	PASS
GPRS850 2 Slot	251	848.8	31.34	-2.1	27.09	38.45	PASS
GPRS850 3 Slot	128	824.2	29.86	-2.1	25.61	38.45	PASS
GPRS850 3 Slot	190	836.6	29.91	-2.1	25.66	38.45	PASS
GPRS850 3 Slot	251	848.8	30.11	-2.1	25.86	38.45	PASS
GPRS850 4 Slot	128	824.2	29.17	-2.1	24.92	38.45	PASS
GPRS850 4 Slot	190	836.6	29.27	-2.1	25.02	38.45	PASS
GPRS850 4 Slot	251	848.8	29.55	-2.1	25.3	38.45	PASS
EGPRS850 1 Slot	128	824.2	29.04	-2.1	24.79	38.45	PASS
EGPRS850 1 Slot	190	836.6	29.57	-2.1	25.32	38.45	PASS
EGPRS850 1 Slot	251	848.8	30.13	-2.1	25.88	38.45	PASS
EGPRS850 2 Slot	128	824.2	29.03	-2.1	24.78	38.45	PASS
EGPRS850 2 Slot	190	836.6	29.22	-2.1	24.97	38.45	PASS
EGPRS850 2 Slot	251	848.8	29.32	-2.1	25.07	38.45	PASS
EGPRS850 3 Slot	128	824.2	27.36	-2.1	23.11	38.45	PASS
EGPRS850 3 Slot	190	836.6	27.64	-2.1	23.39	38.45	PASS
EGPRS850 3 Slot	251	848.8	28.13	-2.1	23.88	38.45	PASS
EGPRS850 4 Slot	128	824.2	26.38	-2.1	22.13	38.45	PASS
EGPRS850 4 Slot	190	836.6	26.82	-2.1	22.57	38.45	PASS
EGPRS850 4 Slot	251	848.8	27.1	-2.1	22.85	38.45	PASS

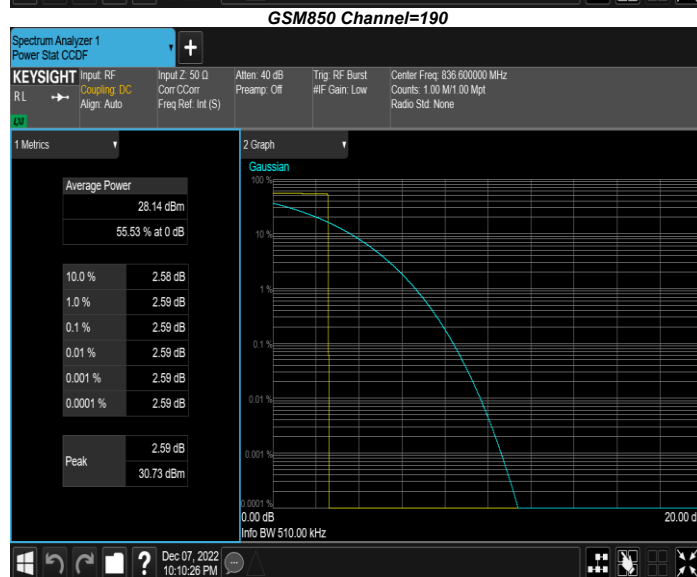
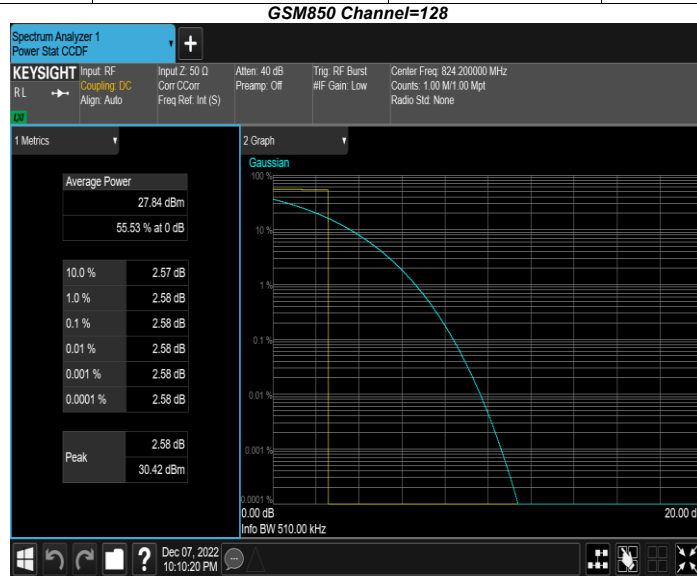
Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
GSM1900	512	1850.2	31.06	-2.8	28.26	33.01	PASS
GSM1900	661	1880	31.05	-2.8	28.25	33.01	PASS
GSM1900	810	1909.8	30.84	-2.8	28.04	33.01	PASS
GPRS1900 1 Slot	512	1850.2	31.1	-2.8	28.3	33.01	PASS
GPRS1900 1 Slot	661	1880	31.07	-2.8	28.27	33.01	PASS
GPRS1900 1 Slot	810	1909.8	30.86	-2.8	28.06	33.01	PASS
GPRS1900 2 Slot	512	1850.2	29.89	-2.8	27.09	33.01	PASS
GPRS1900 2 Slot	661	1880	29.89	-2.8	27.09	33.01	PASS
GPRS1900 2 Slot	810	1909.8	29.7	-2.8	26.9	33.01	PASS
GPRS1900 3 Slot	512	1850.2	27.54	-2.8	24.74	33.01	PASS
GPRS1900 3 Slot	661	1880	27.57	-2.8	24.77	33.01	PASS
GPRS1900 3 Slot	810	1909.8	27.45	-2.8	24.65	33.01	PASS
GPRS1900 4 Slot	512	1850.2	26.45	-2.8	23.65	33.01	PASS
GPRS1900 4 Slot	661	1880	26.5	-2.8	23.7	33.01	PASS
GPRS1900 4 Slot	810	1909.8	26.38	-2.8	23.58	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	31.69	-2.8	28.89	33.01	PASS
EGPRS1900 1 Slot	661	1880	31.39	-2.8	28.59	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	31.46	-2.8	28.66	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	31.35	-2.8	28.55	33.01	PASS
EGPRS1900 2 Slot	661	1880	30.98	-2.8	28.18	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	30.96	-2.8	28.16	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	30.12	-2.8	27.32	33.01	PASS
EGPRS1900 3 Slot	661	1880	30.12	-2.8	27.32	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	30.03	-2.8	27.23	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	29.4	-2.8	26.6	33.01	PASS
EGPRS1900 4 Slot	661	1880	29.34	-2.8	26.54	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	29.19	-2.8	26.39	33.01	PASS

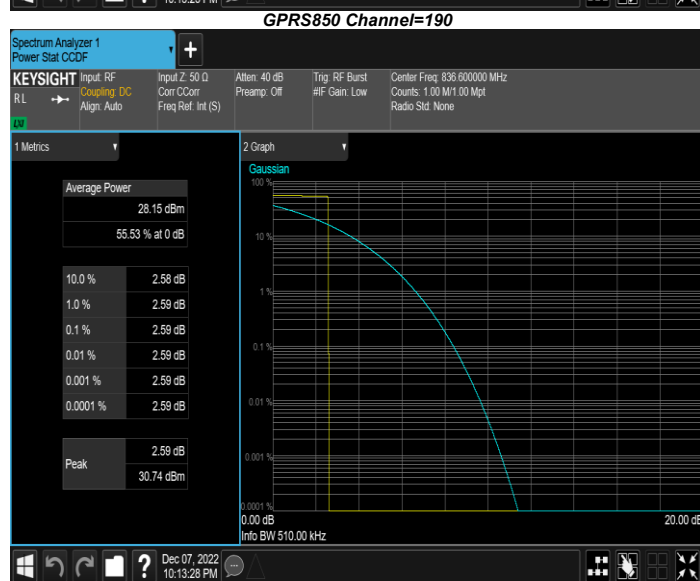
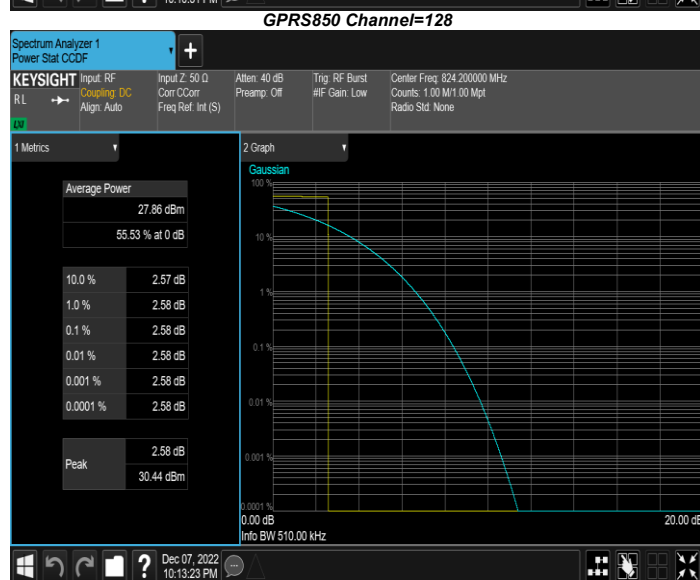
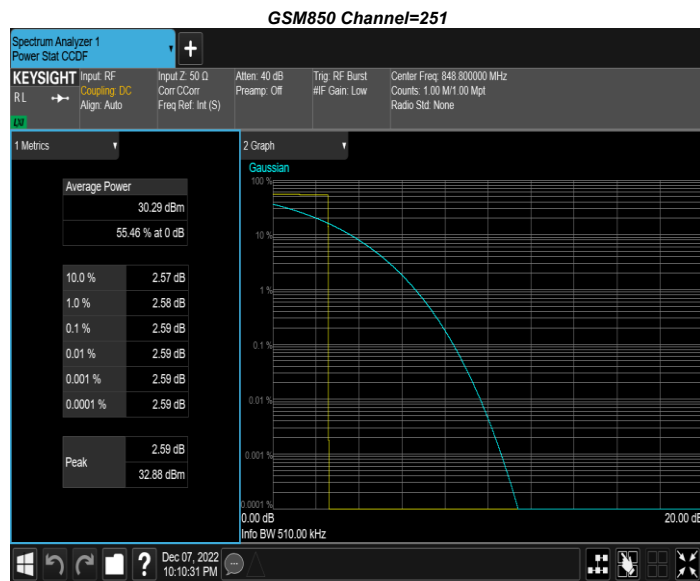
Frequency stability

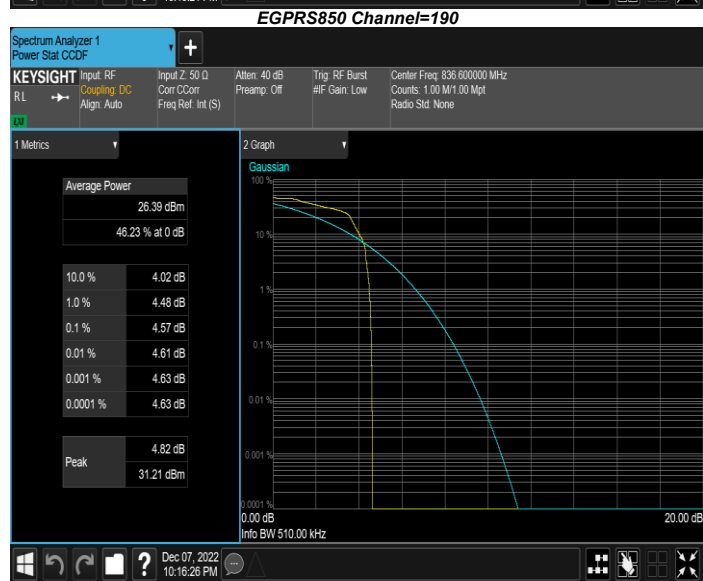
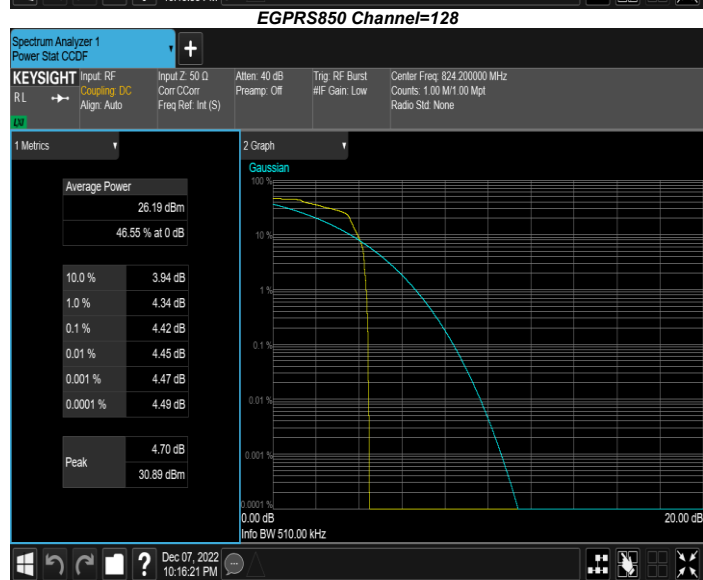
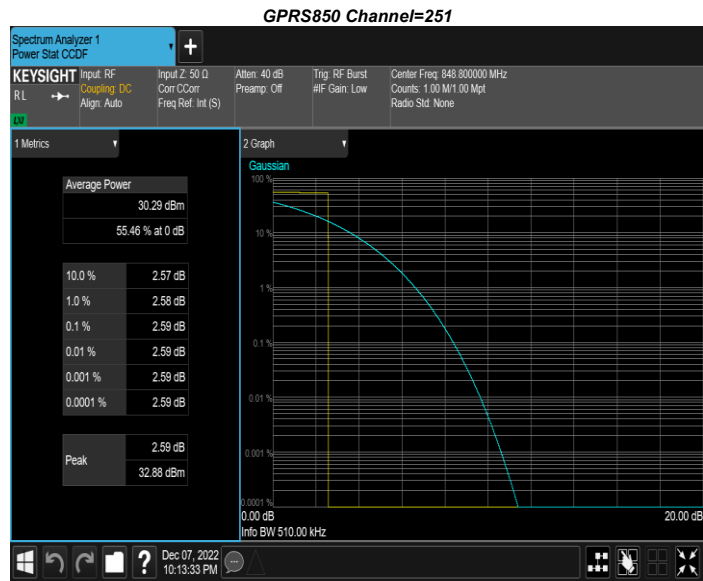
Band	Channel	Frequency (MHz)	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
GSM850	128	824.2	-2.74	-0.003	-2.5	2.5	PASS
GSM850	190	836.6	2.42	0.003	-2.5	2.5	PASS
GSM850	251	848.8	0.26	0.000	-2.5	2.5	PASS
GPRS850	128	824.2	-3.68	0.00	-2.5	2.5	PASS
GPRS850	190	836.6	-1.68	0.00	-2.5	2.5	PASS
GPRS850	251	848.8	-0.84	0.00	-2.5	2.5	PASS
EGPRS850	128	824.2	-4.07	0.00	-2.5	2.5	PASS
EGPRS850	190	836.6	-5.13	-0.01	-2.5	2.5	PASS
EGPRS850	251	848.8	-3.36	0.00	-2.5	2.5	PASS
GSM1900	512	1850.2	-0.74	0.000	-2.5	2.5	PASS
GSM1900	661	1880	-4.49	-0.002	-2.5	2.5	PASS
GSM1900	810	1909.8	-4.13	-0.002	-2.5	2.5	PASS
GPRS1900	512	1850.2	-9.62	-0.01	-2.5	2.5	PASS
GPRS1900	661	1880	-3.84	0.00	-2.5	2.5	PASS
GPRS1900	810	1909.8	-5.30	0.00	-2.5	2.5	PASS
EGPRS1900	512	1850.2	1.45	0.00	-2.5	2.5	PASS
EGPRS1900	661	1880	-3.33	0.00	-2.5	2.5	PASS
EGPRS1900	810	1909.8	7.26	0.00	-2.5	2.5	PASS

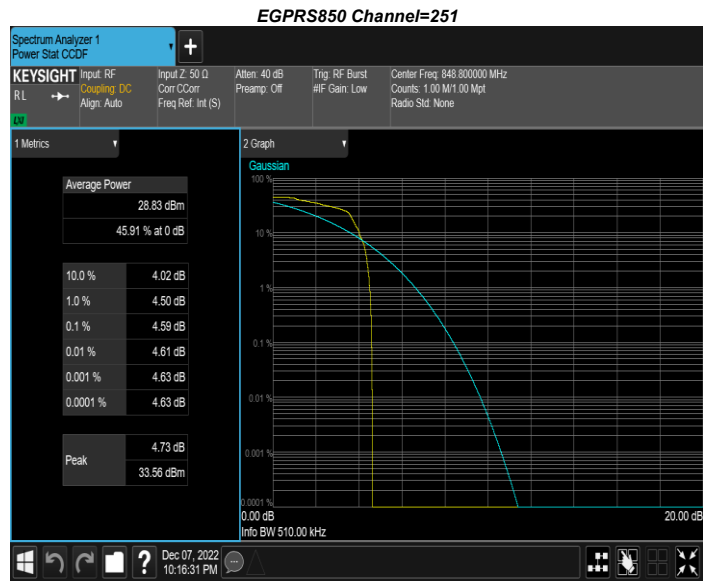
Peak-to-Average Ratio

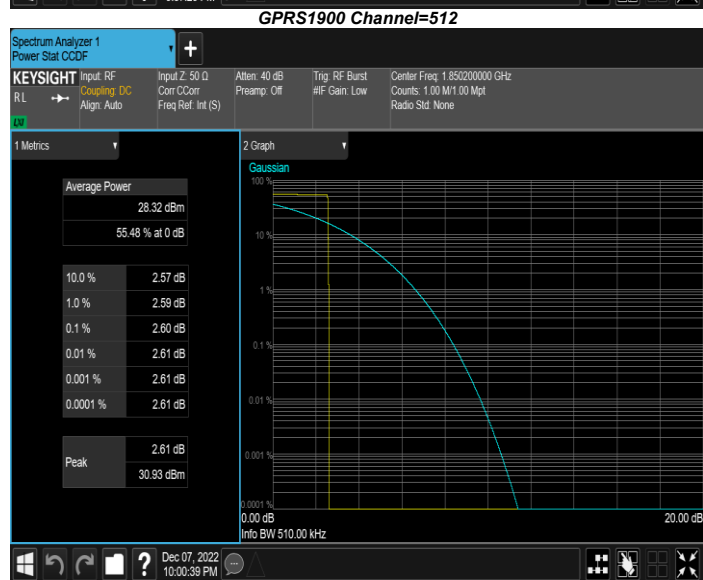
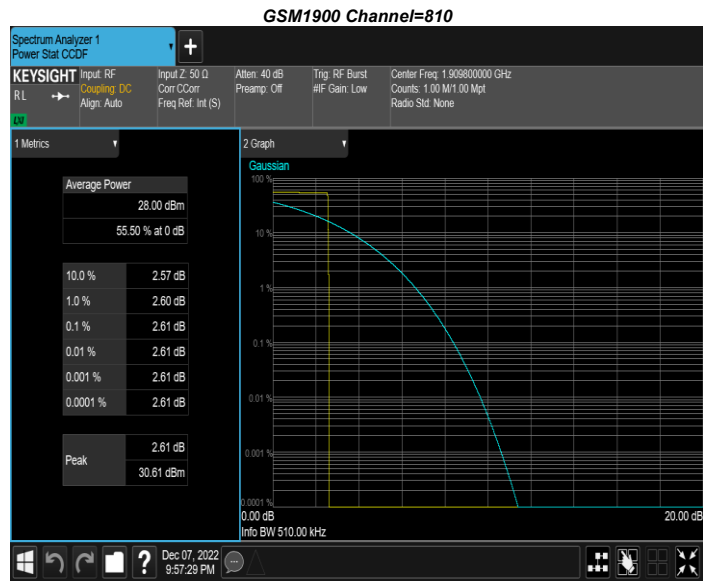
Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM850	128	824.2	2.58	13	PASS
GSM850	190	836.6	2.59	13	PASS
GSM850	251	848.8	2.59	13	PASS
GPRS850	128	824.2	2.58	13	PASS
GPRS850	190	836.6	2.59	13	PASS
GPRS850	251	848.8	2.59	13	PASS
EGPRS850	128	824.2	4.42	13	PASS
EGPRS850	190	836.6	4.57	13	PASS
EGPRS850	251	848.8	4.59	13	PASS
GSM1900	512	1850.2	2.60	13	PASS
GSM1900	661	1880	2.60	13	PASS
GSM1900	810	1909.8	2.61	13	PASS
GPRS1900	512	1850.2	2.60	13	PASS
GPRS1900	661	1880	2.61	13	PASS
GPRS1900	810	1909.8	2.61	13	PASS
EGPRS1900	512	1850.2	4.65	13	PASS
EGPRS1900	661	1880	4.44	13	PASS
EGPRS1900	810	1909.8	4.35	13	PASS

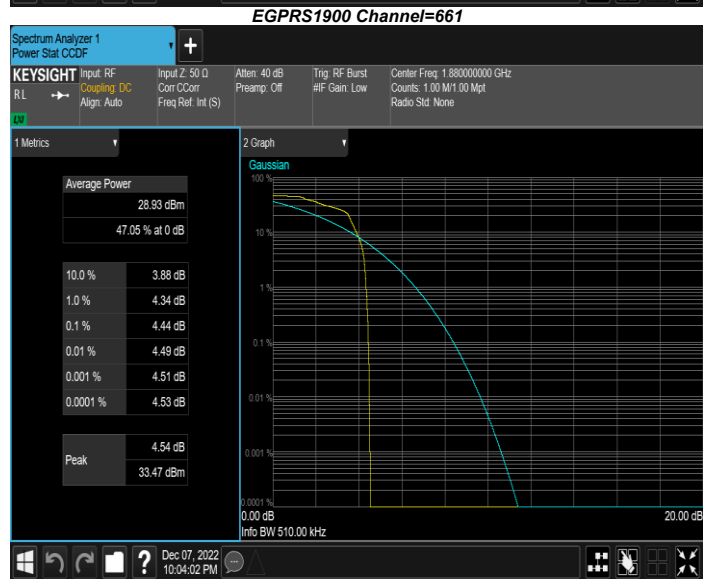
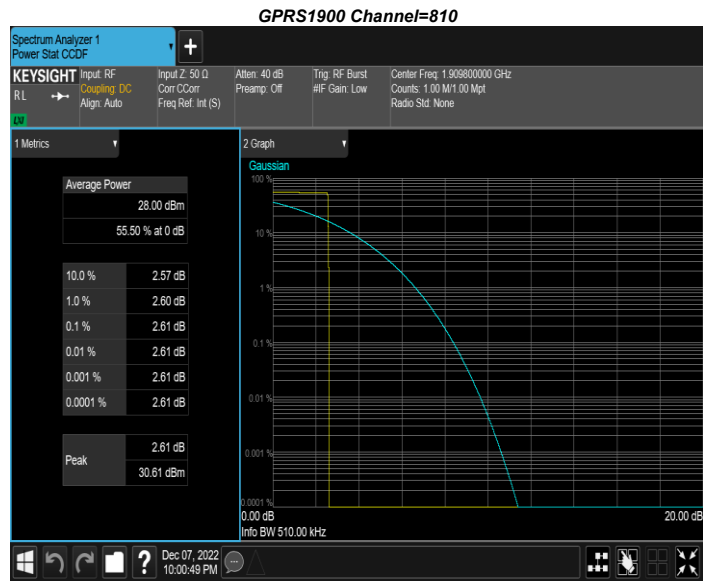


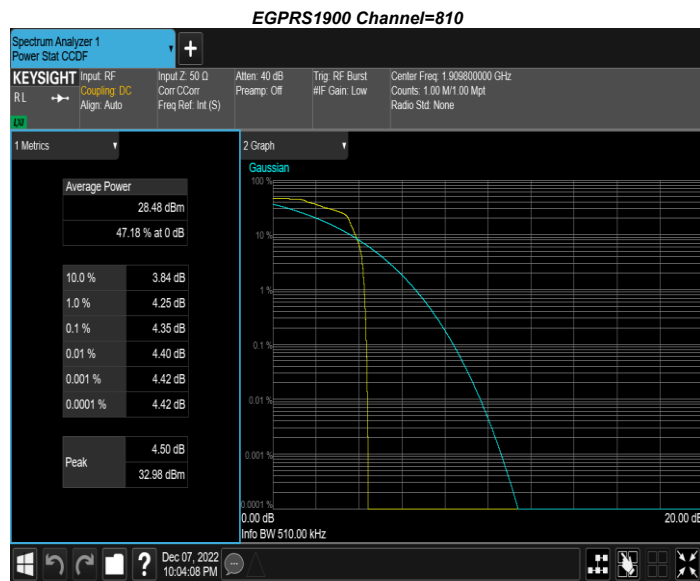






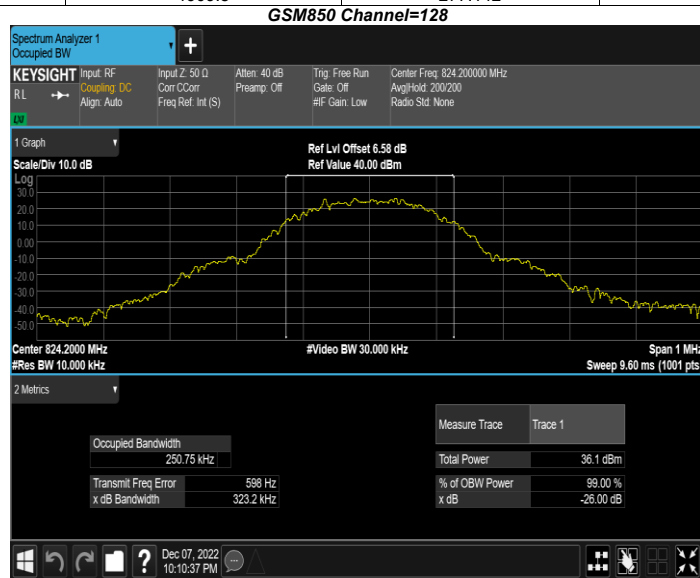


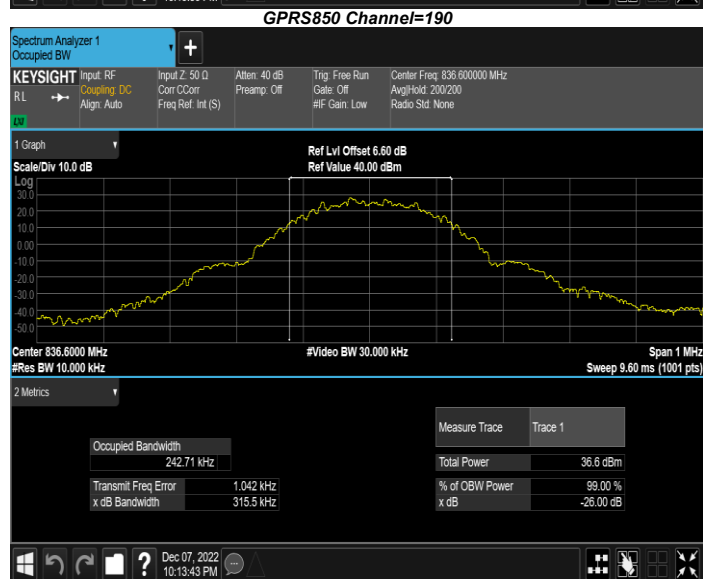
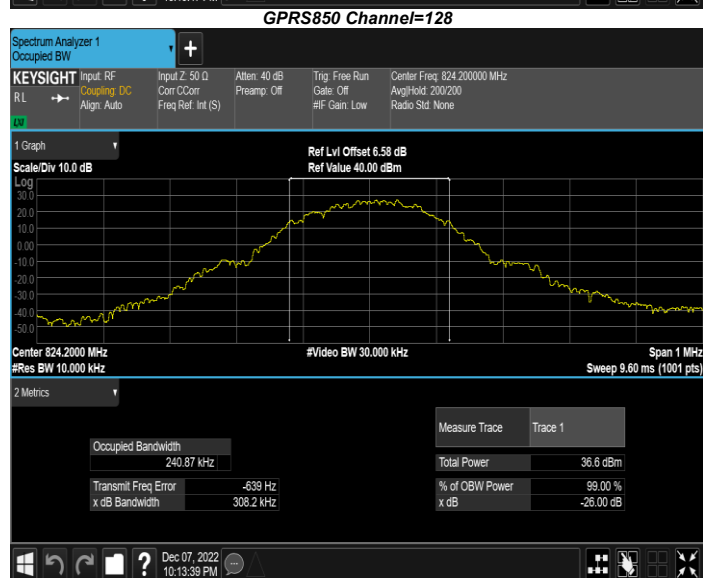
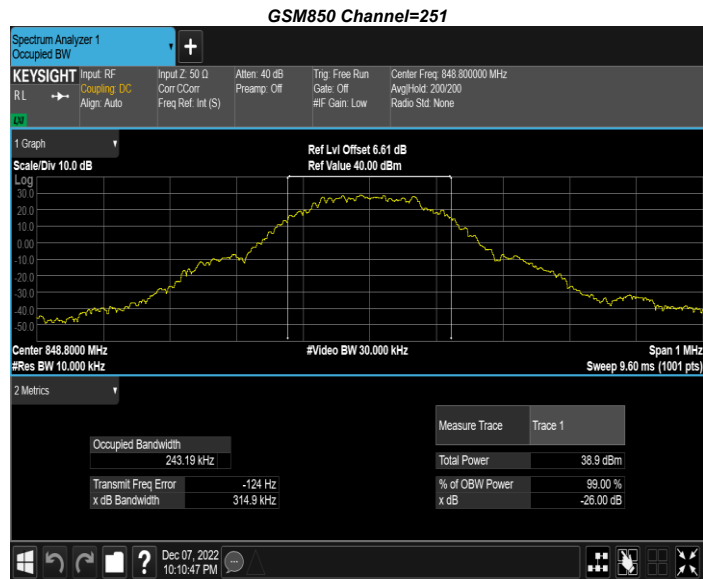


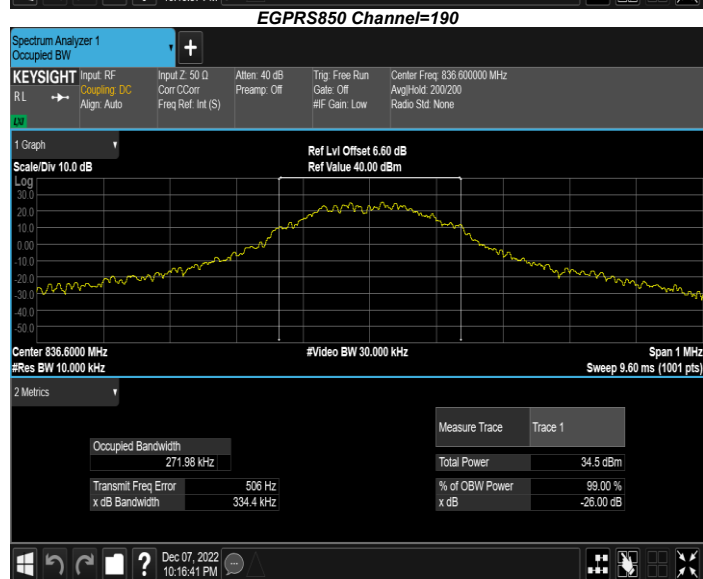
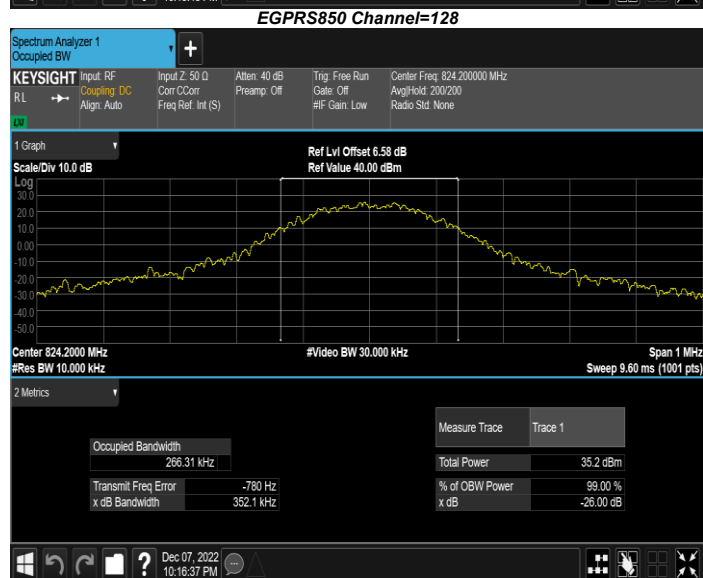
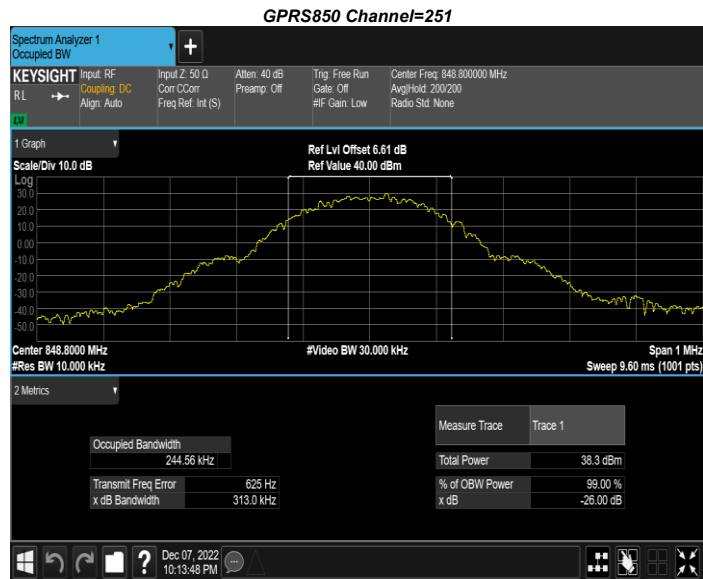


Occupied bandwidth

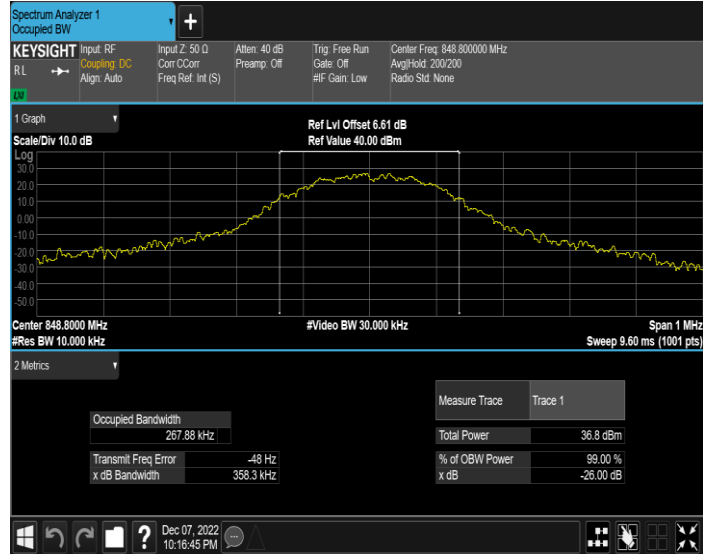
Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	250.753	323.233	PASS
GSM850	190	836.6	246.934	314.989	PASS
GSM850	251	848.8	243.194	314.916	PASS
GPRS850	128	824.2	240.872	308.247	PASS
GPRS850	190	836.6	242.708	315.527	PASS
GPRS850	251	848.8	244.564	312.977	PASS
EGPRS850	128	824.2	266.308	352.132	PASS
EGPRS850	190	836.6	271.980	334.430	PASS
EGPRS850	251	848.8	267.875	358.288	PASS
GSM1900	512	1850.2	244.441	313.249	PASS
GSM1900	661	1880	246.869	314.081	PASS
GSM1900	810	1909.8	242.394	317.278	PASS
GPRS1900	512	1850.2	245.171	313.327	PASS
GPRS1900	661	1880	246.903	321.699	PASS
GPRS1900	810	1909.8	243.331	312.886	PASS
EGPRS1900	512	1850.2	272.610	372.456	PASS
EGPRS1900	661	1880	281.160	364.149	PASS
EGPRS1900	810	1909.8	277.142	383.062	PASS







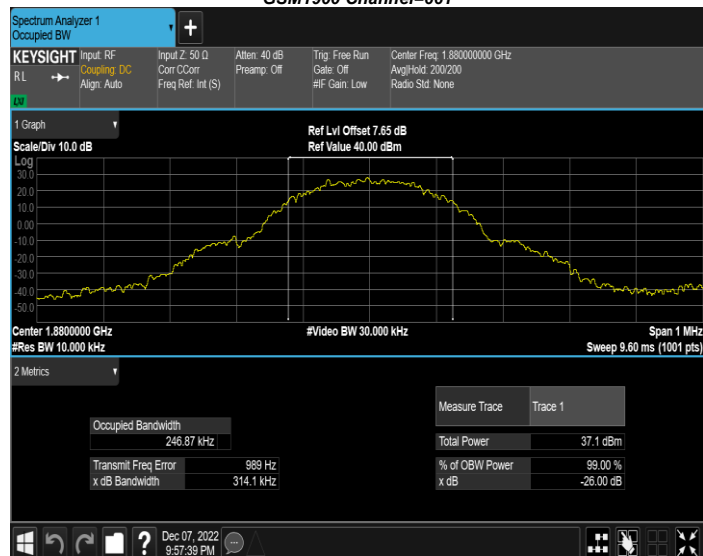
EGPRS850 Channel=251

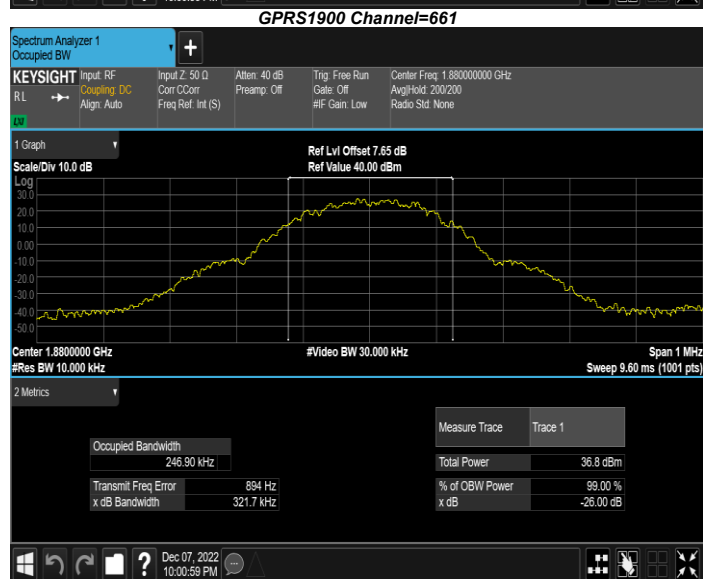
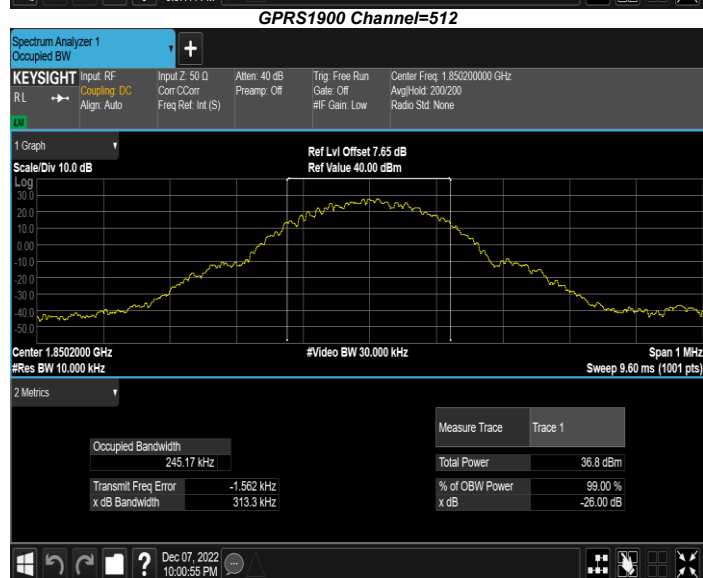
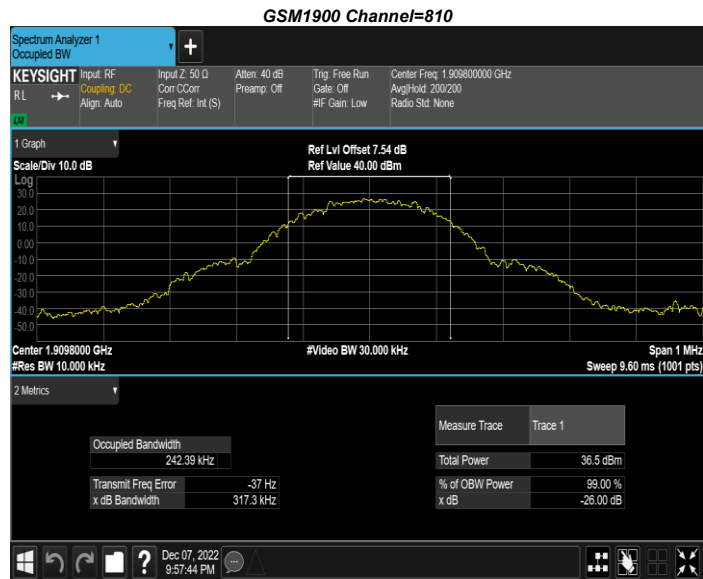


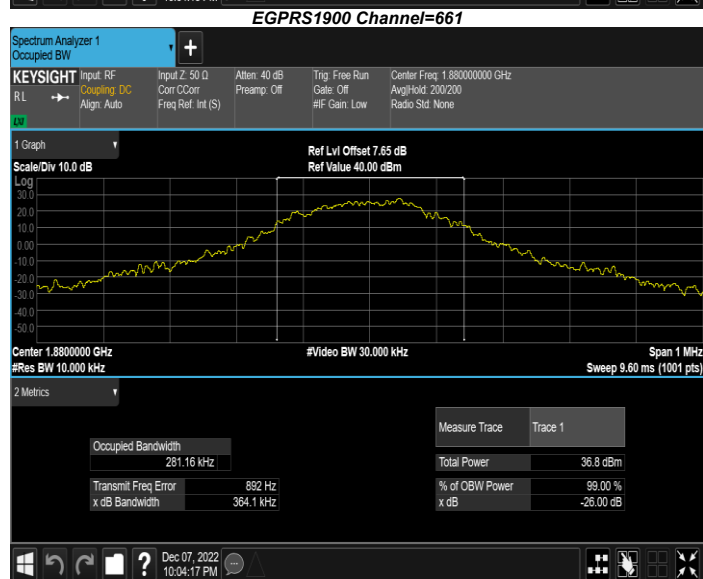
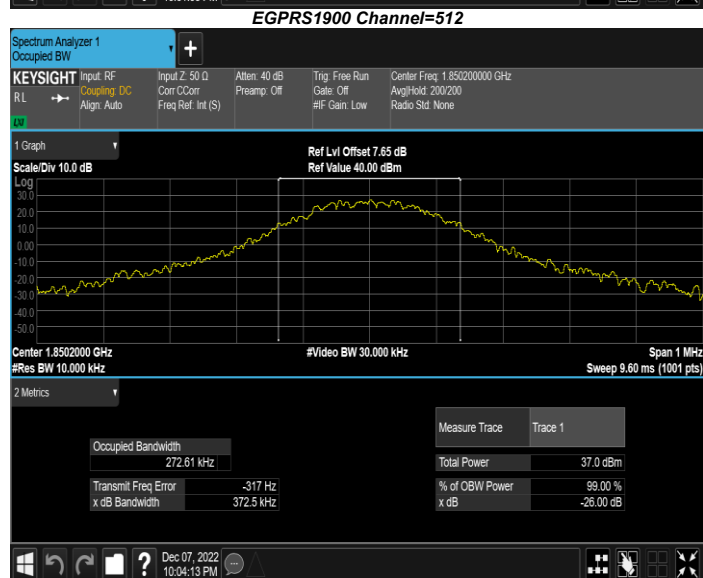
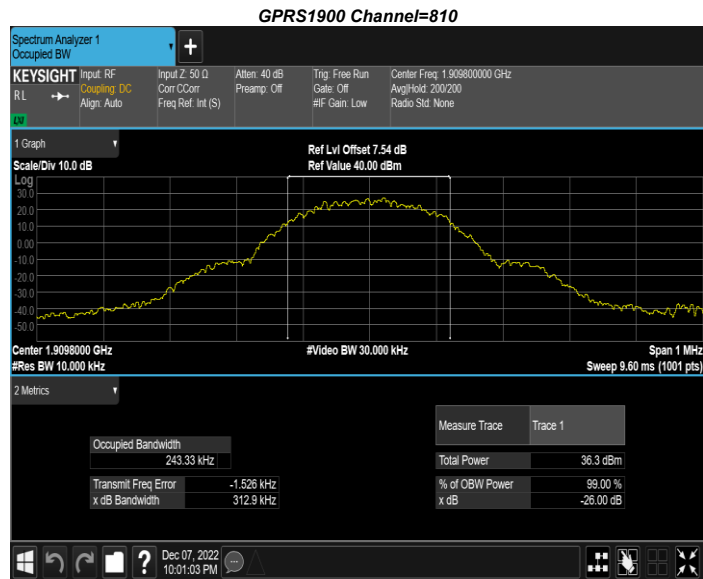
GSM1900 Channel=512

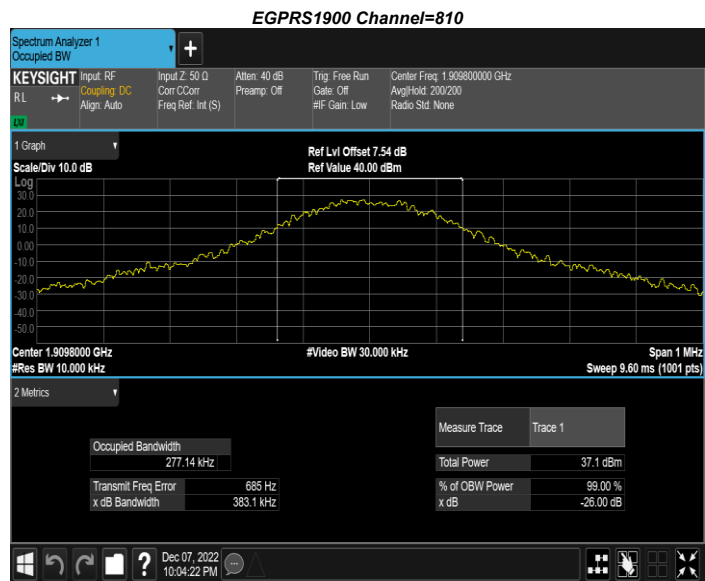


GSM1900 Channel=661



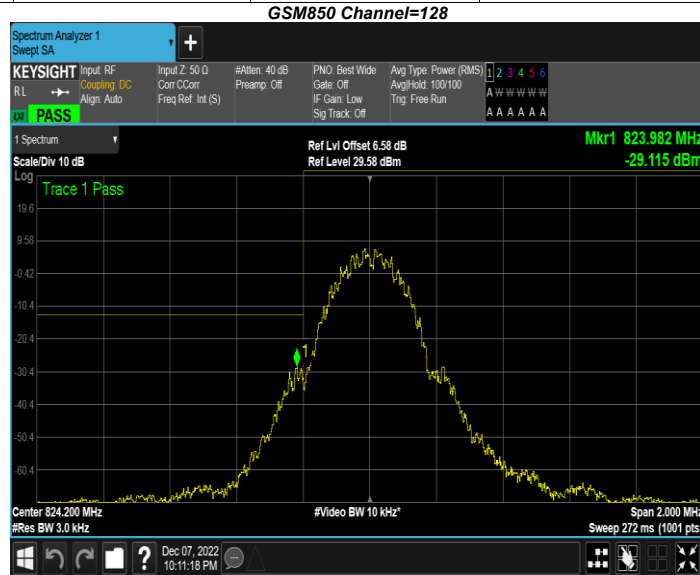


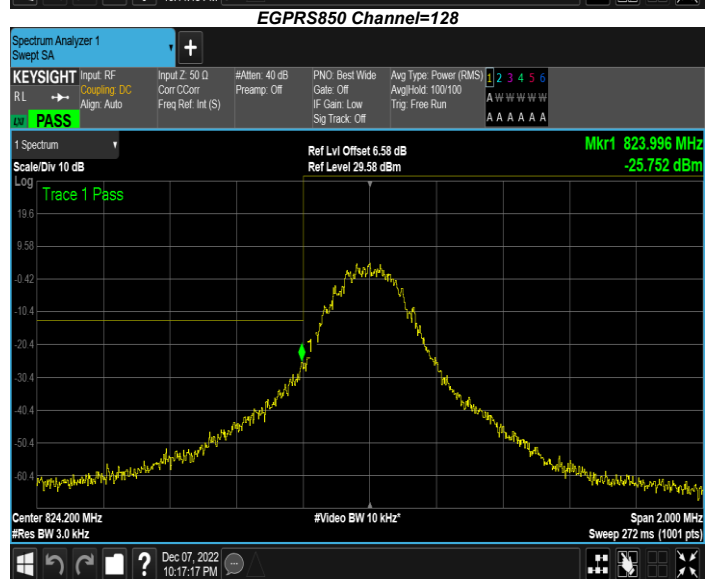
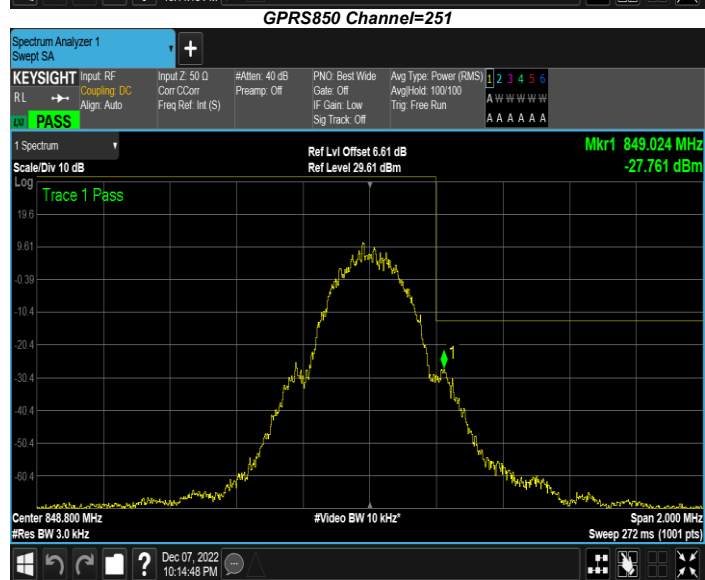
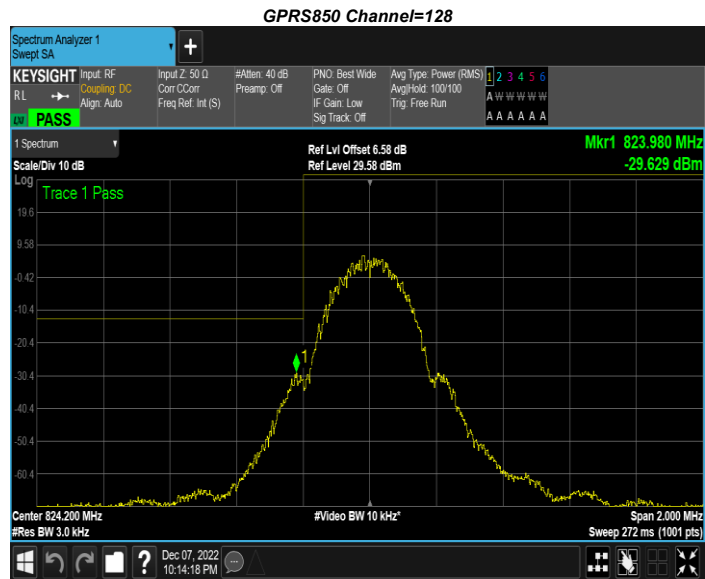


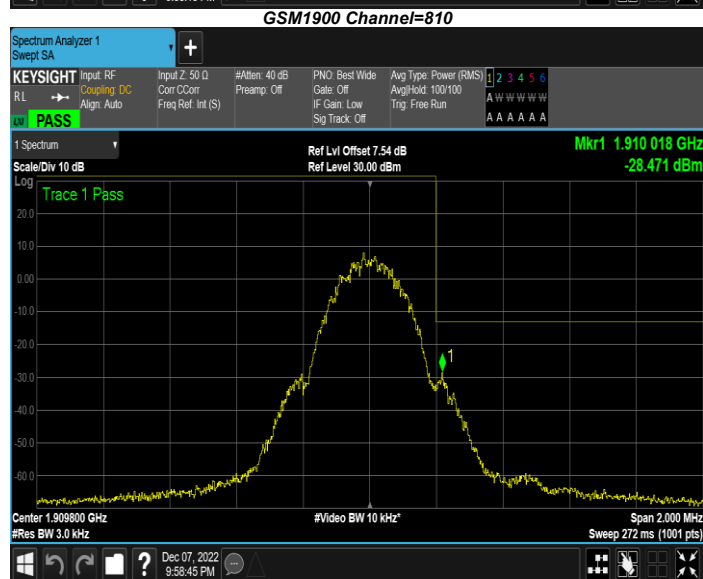
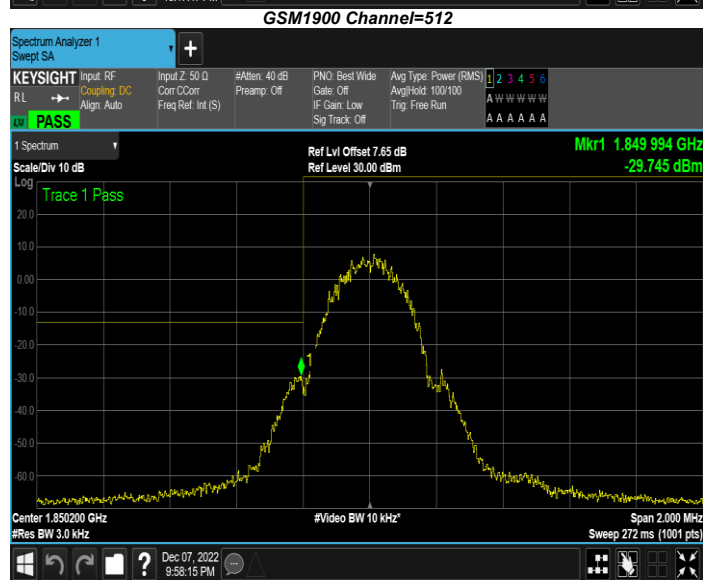
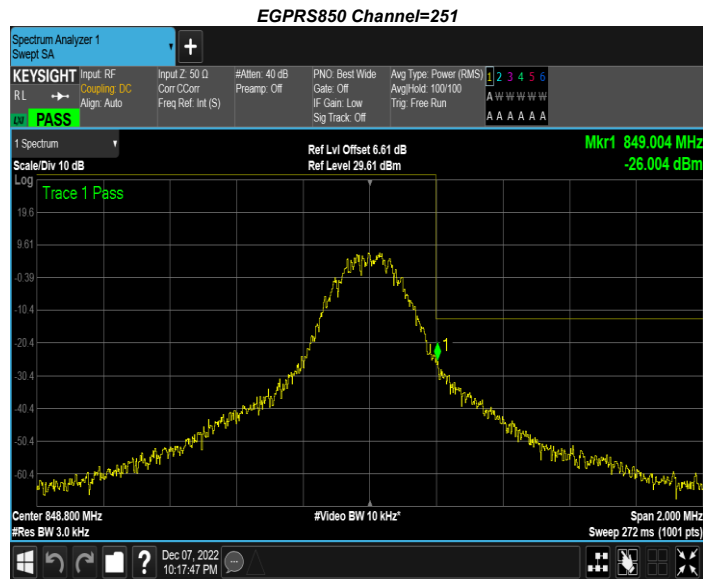


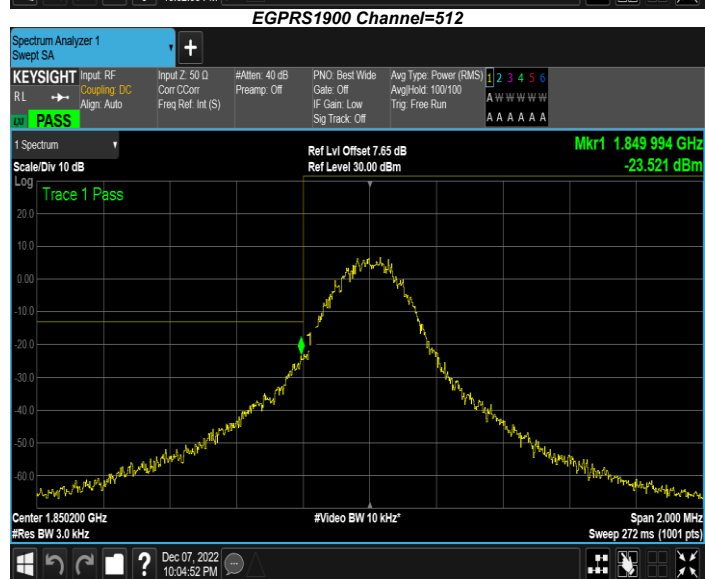
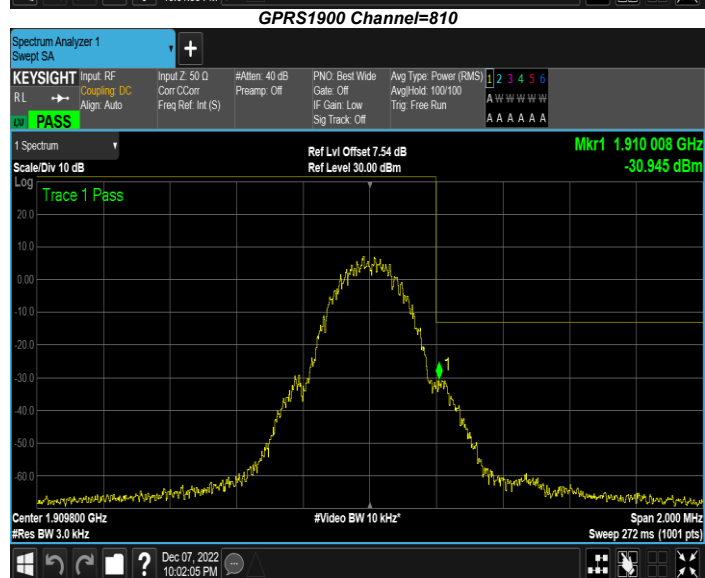
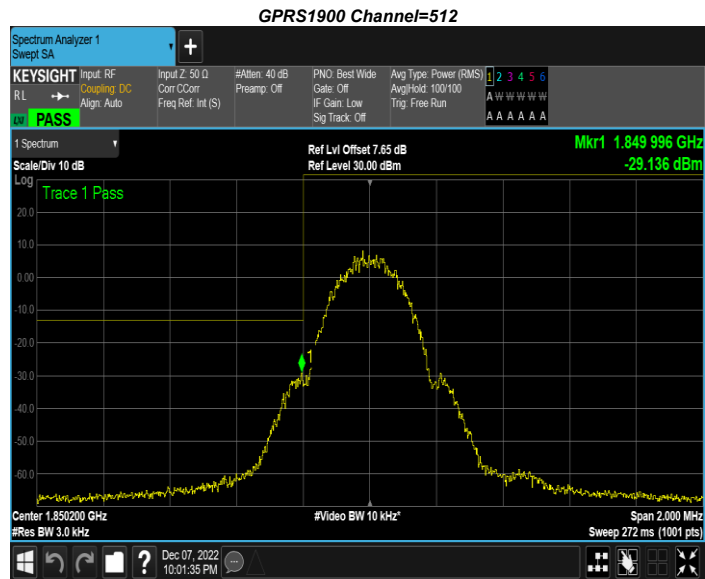
Band edge

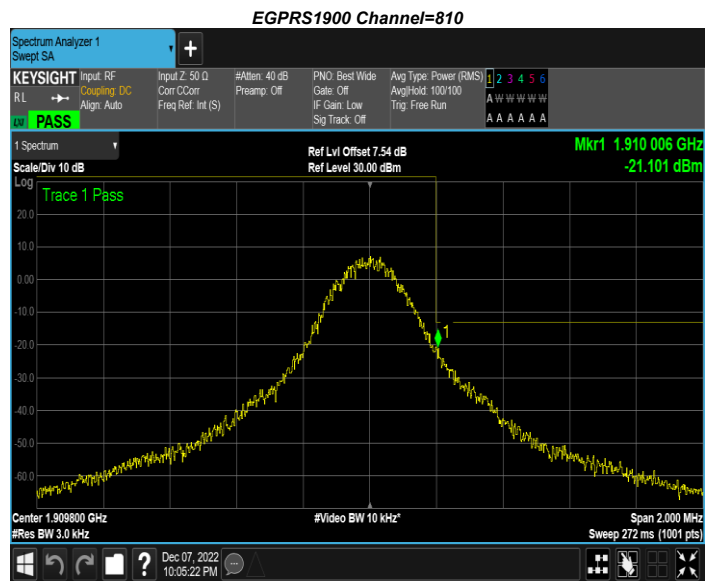
Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	823.98	-29.11	-13	PASS
GSM850	251	848.8	849.02	-25.18	-13	PASS
GPRS850	128	824.2	823.98	-29.62	-13	PASS
GPRS850	251	848.8	849.02	-27.76	-13	PASS
EGPRS850	128	824.2	824.00	-25.75	-13	PASS
EGPRS850	251	848.8	849.00	-26.00	-13	PASS
GSM1900	512	1850.2	1849.99	-29.74	-13	PASS
GSM1900	810	1909.8	1910.02	-28.47	-13	PASS
GPRS1900	512	1850.2	1850.00	-29.13	-13	PASS
GPRS1900	810	1909.8	1910.01	-30.94	-13	PASS
EGPRS1900	512	1850.2	1849.99	-23.52	-13	PASS
EGPRS1900	810	1909.8	1910.01	-21.10	-13	PASS





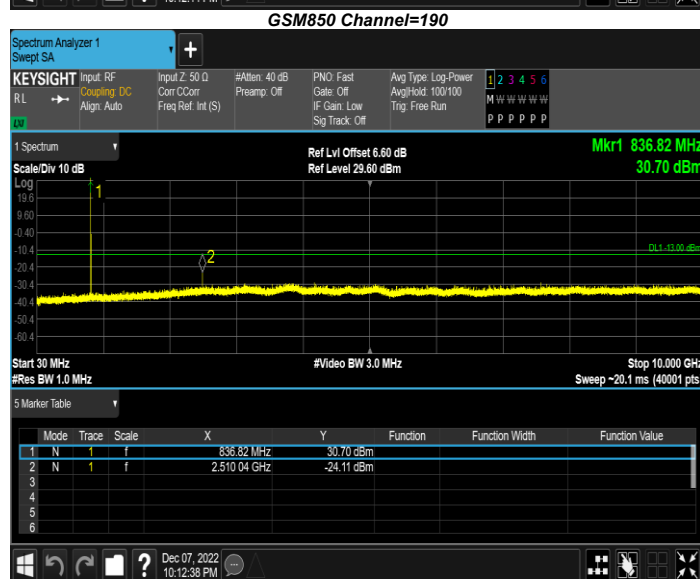
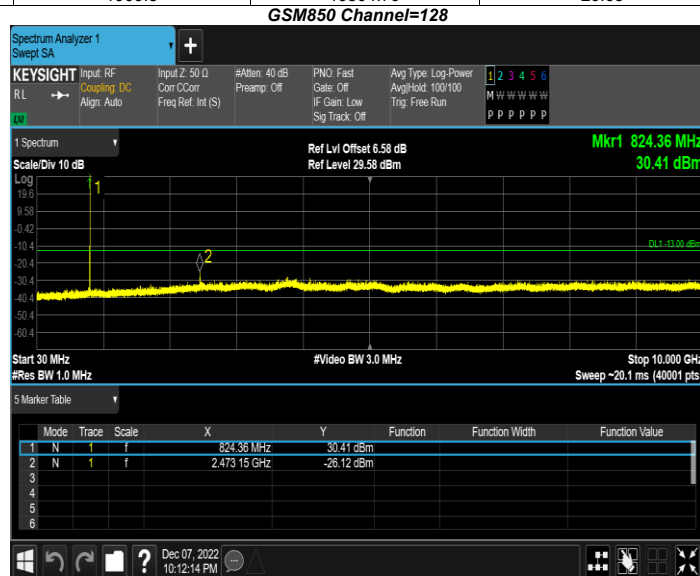




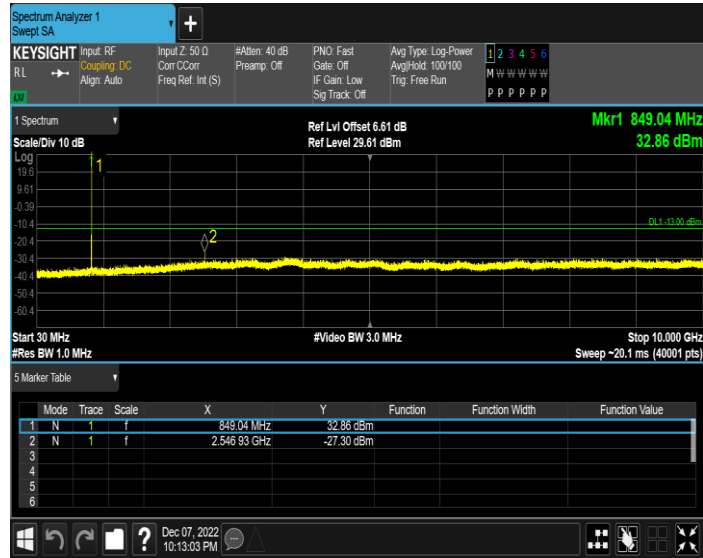


SPURIOUS EMISSIONS AT ANTENNA TERMINALS

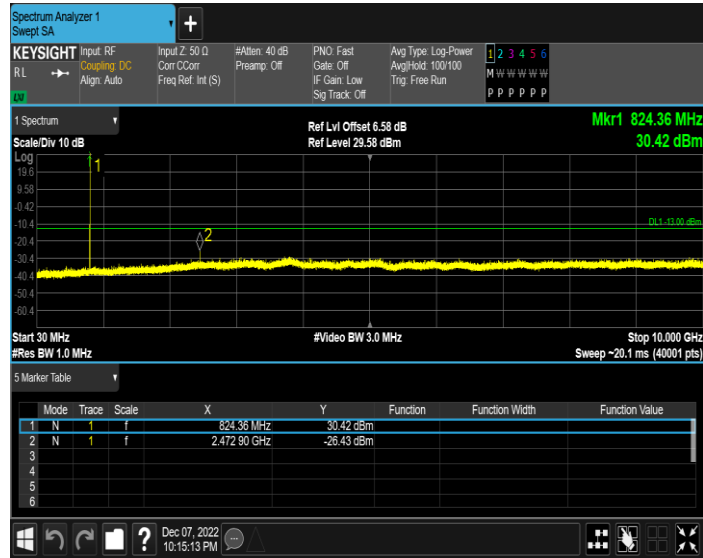
Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	2473.15	-26.11	-13	PASS
GSM850	190	836.6	2510.04	-24.11	-13	PASS
GSM850	251	848.8	2546.93	-27.30	-13	PASS
GPRS850	128	824.2	2472.90	-26.42	-13	PASS
GPRS850	190	836.6	2510.29	-24.53	-13	PASS
GPRS850	251	848.8	2546.68	-27.93	-13	PASS
EGPRS850	128	824.2	2472.90	-24.87	-13	PASS
EGPRS850	190	836.6	2509.79	-24.80	-13	PASS
EGPRS850	251	848.8	2546.43	-27.82	-13	PASS
GSM1900	512	1850.2	19823.27	-25.99	-13	PASS
GSM1900	661	1880	19766.85	-26.33	-13	PASS
GSM1900	810	1909.8	19034.95	-26.43	-13	PASS
GPRS1900	512	1850.2	19892.66	-26.53	-13	PASS
GPRS1900	661	1880	19898.15	-26.55	-13	PASS
GPRS1900	810	1909.8	13601.61	-26.06	-13	PASS
EGPRS1900	512	1850.2	19938.09	-26.29	-13	PASS
EGPRS1900	661	1880	18336.50	-26.81	-13	PASS
EGPRS1900	810	1909.8	19804.79	-26.05	-13	PASS



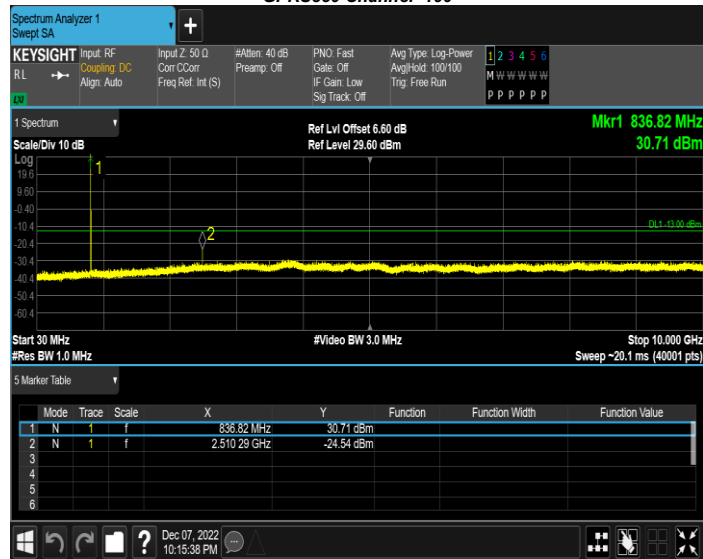
GSM850 Channel=251

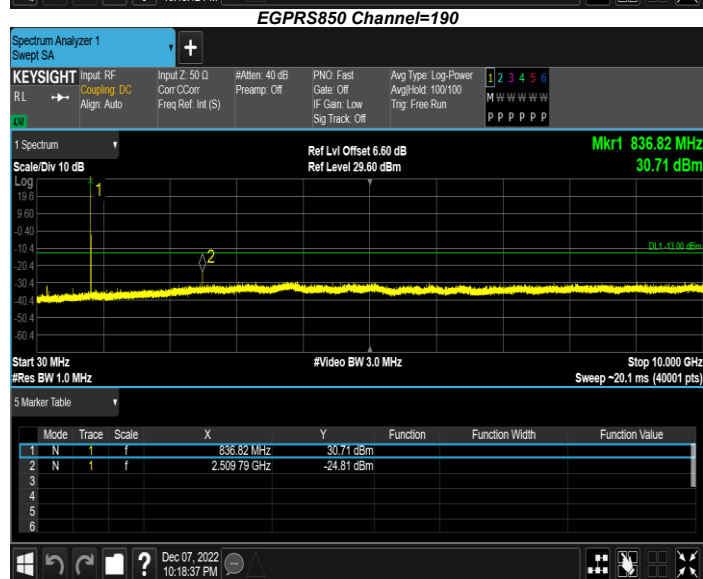
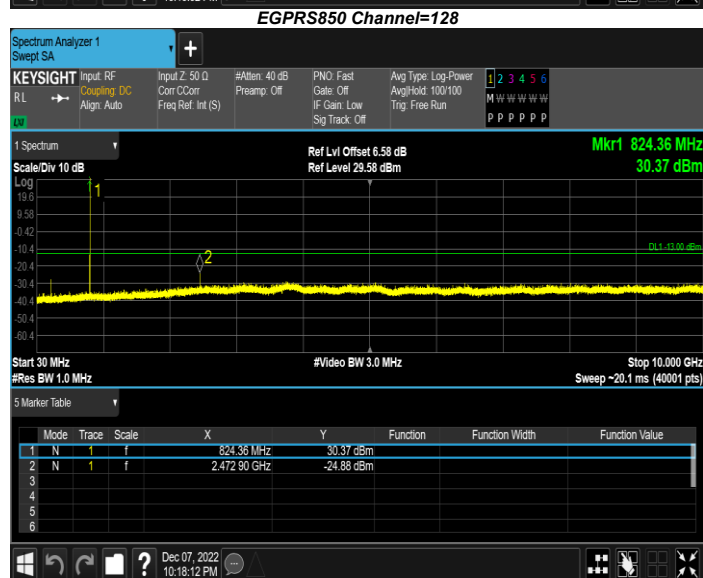
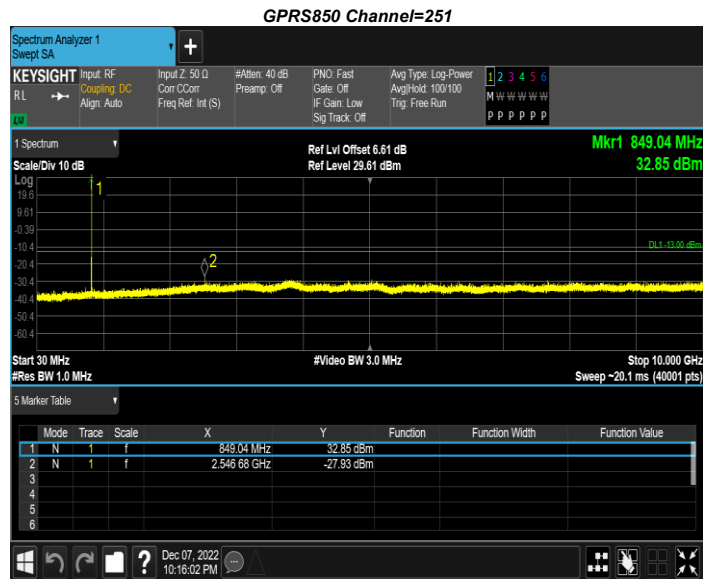


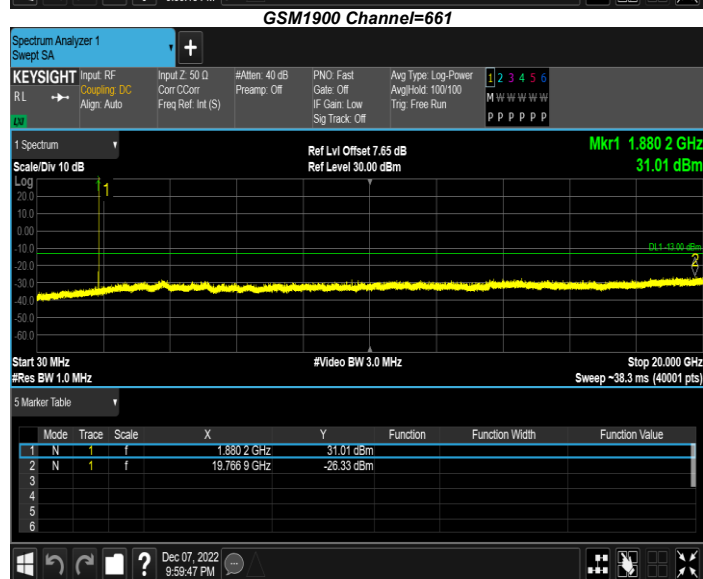
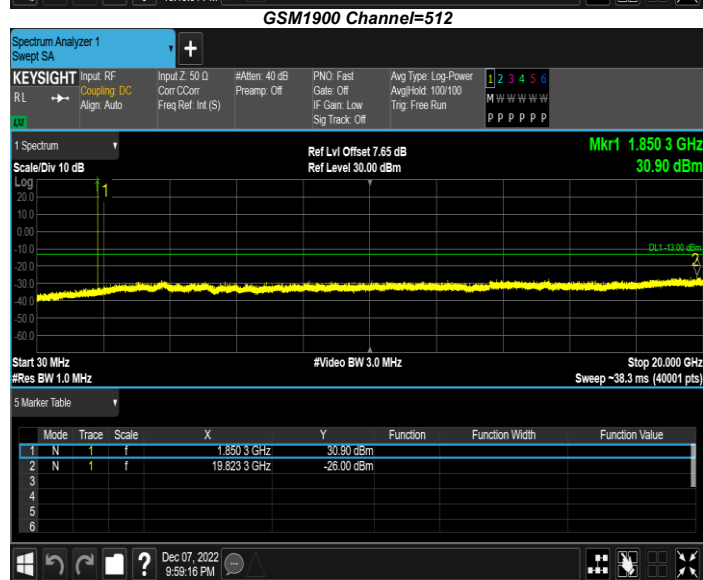
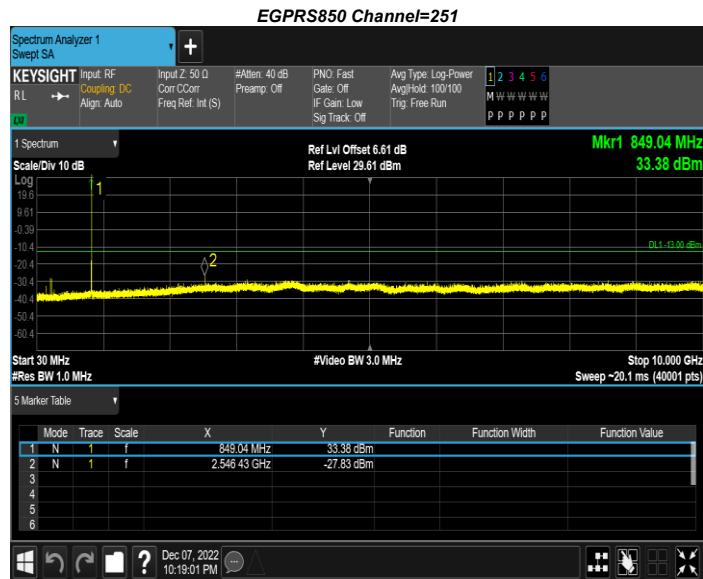
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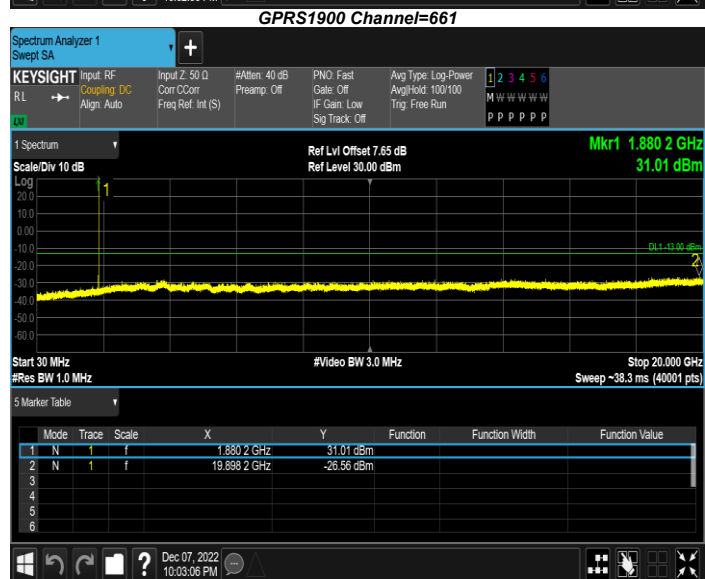
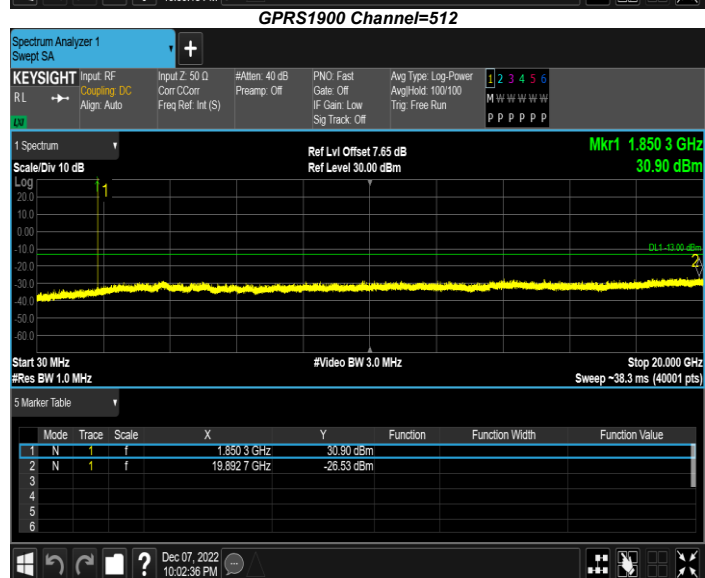
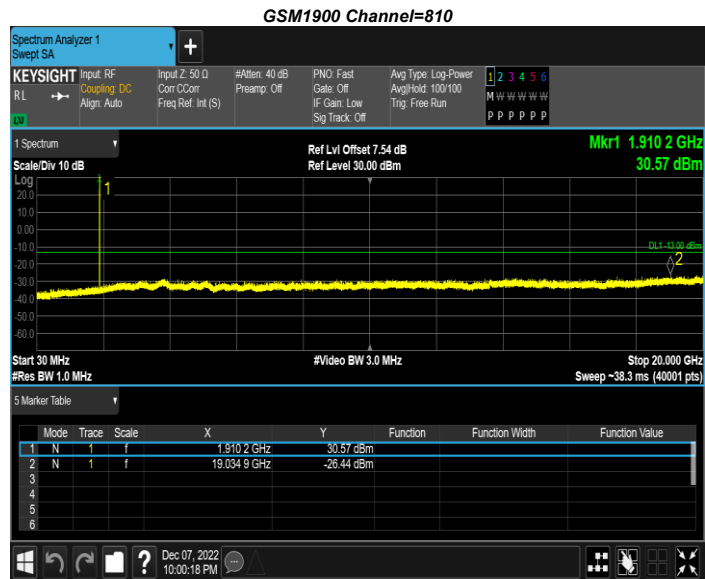


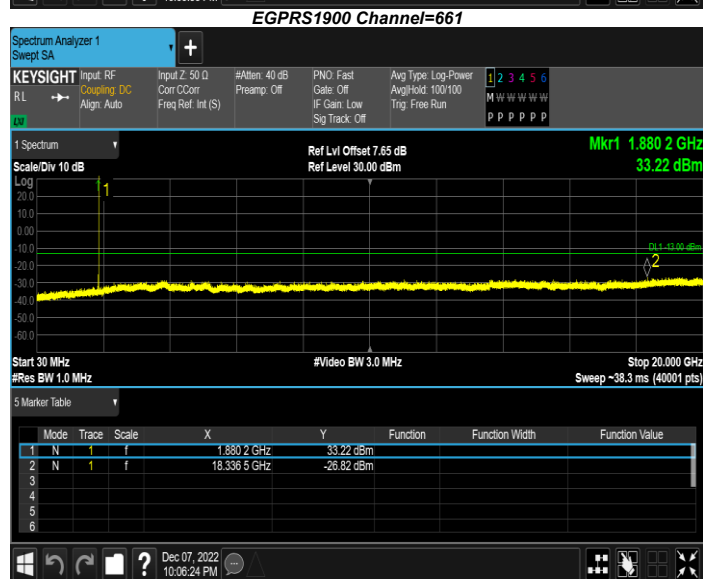
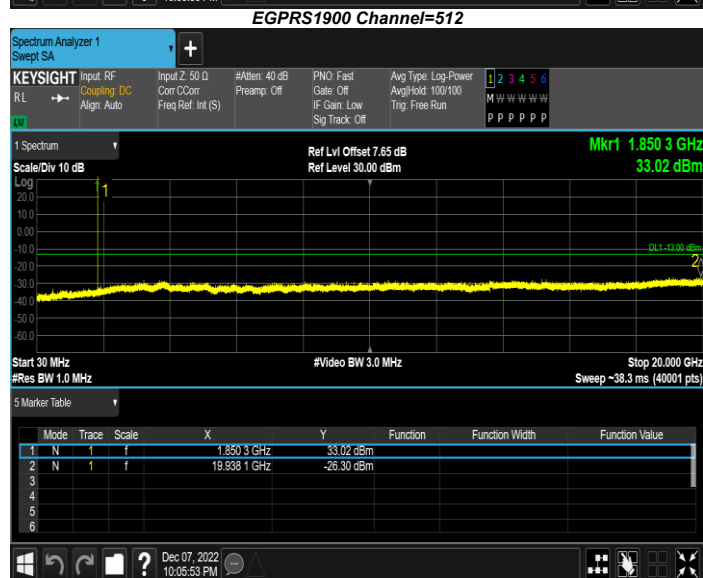
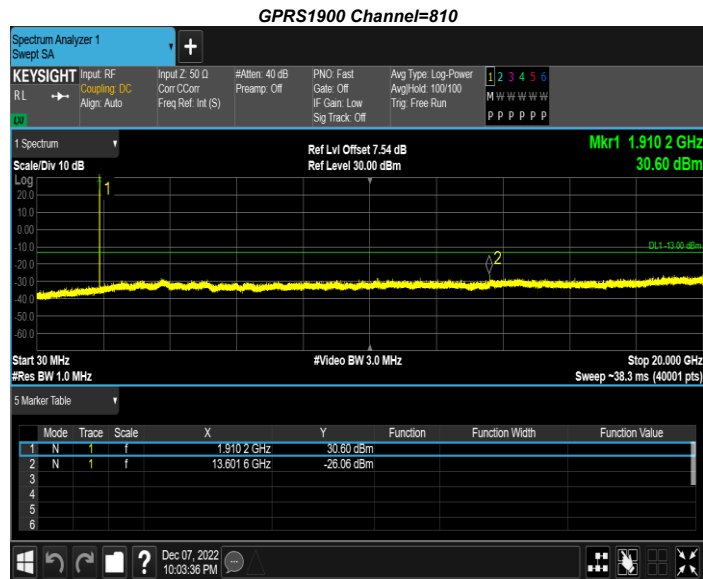
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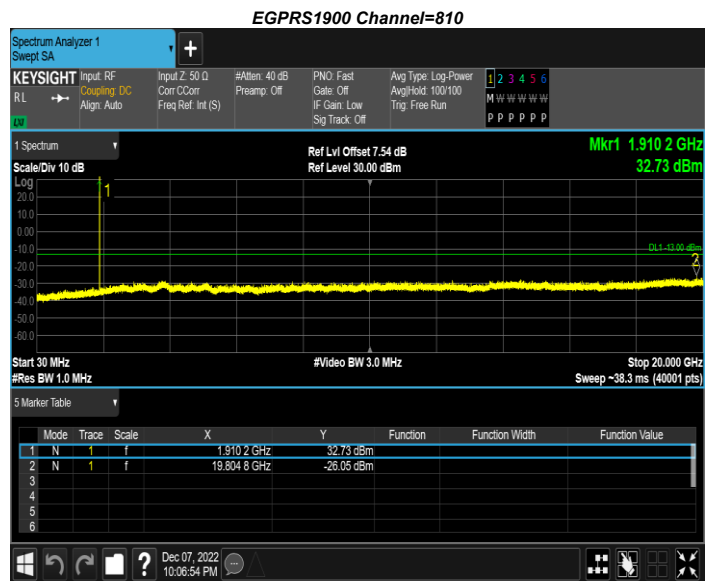






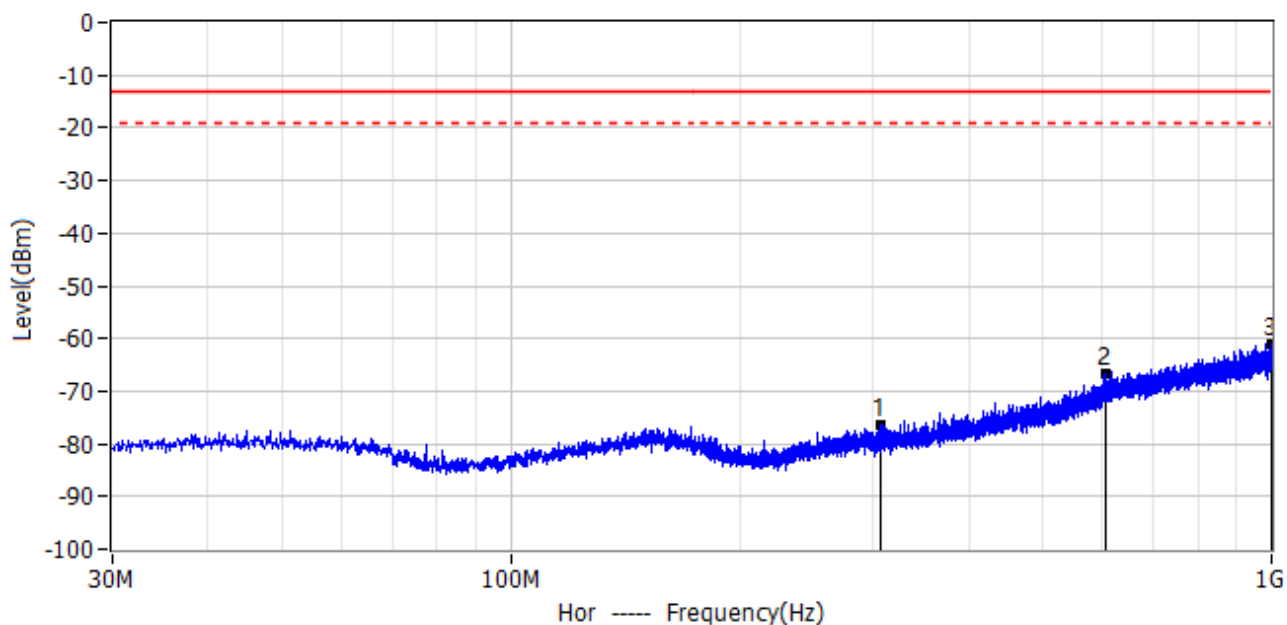




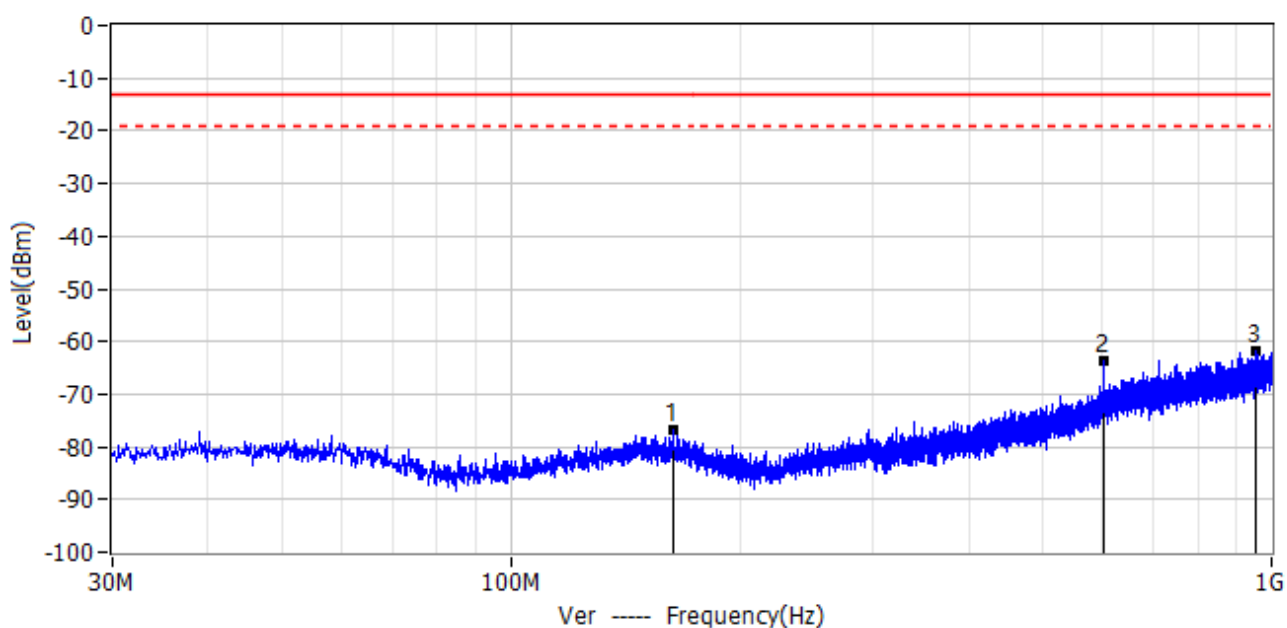


FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

Project: LGT22K048	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 20°C
M/N: TickTock-S	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2022-12-16
Test Mode: GSM 850 Lowest	
Note:	

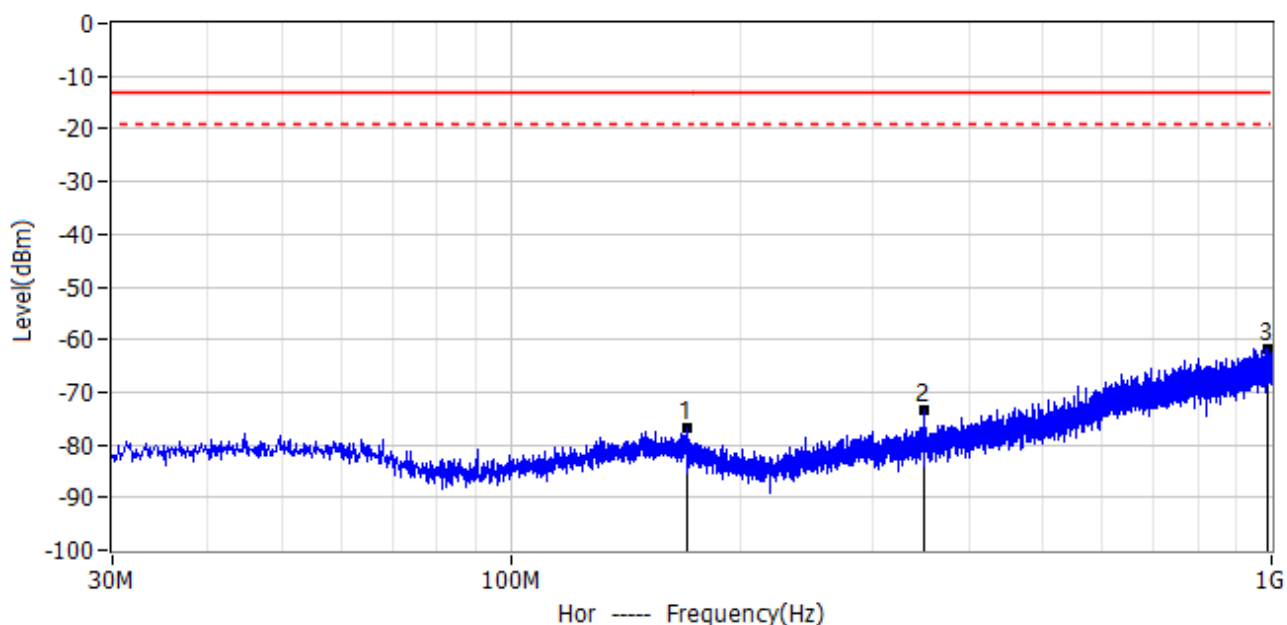


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	306.935MHz	-76.42	-13.00	-63.42	PK	Hor
2*	604.240MHz	-66.73	-13.00	-53.73	PK	Hor
3*	999.636MHz	-60.89	-13.00	-47.89	PK	Hor

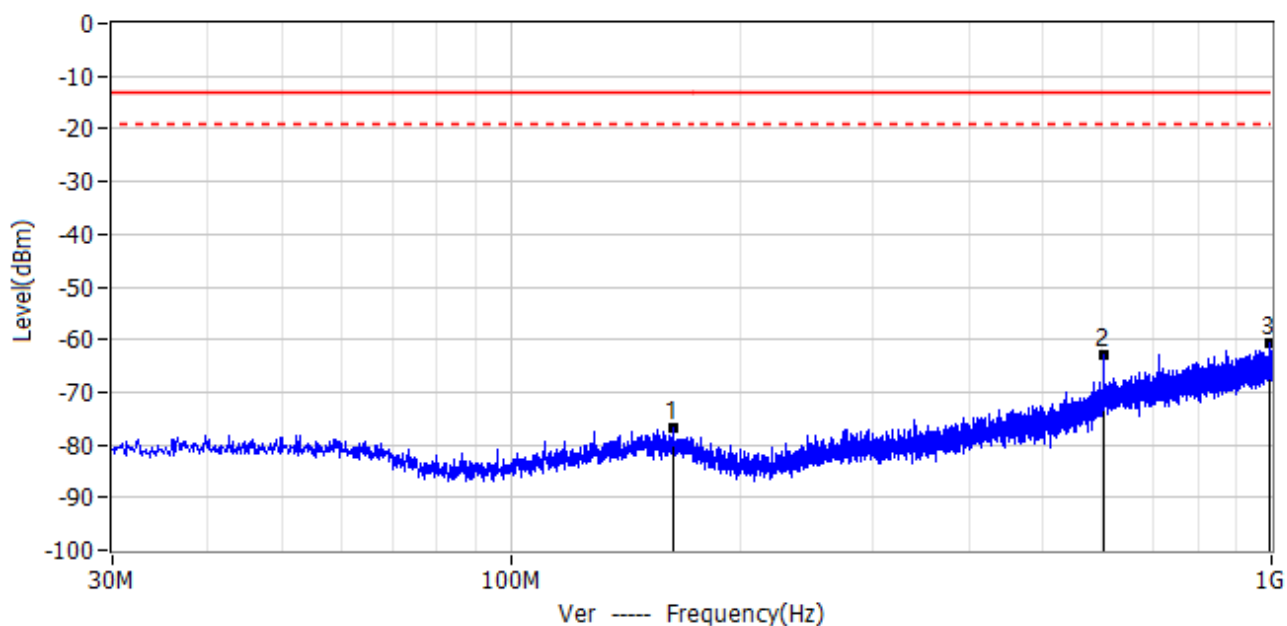


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	163.860MHz	-76.64	-13.00	-63.64	PK	Ver
2*	600.603MHz	-63.75	-13.00	-50.75	PK	Ver
3*	954.046MHz	-61.84	-13.00	-48.84	PK	Ver

Project: LGT22K048	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 20°C
M/N: TickTock-S	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2022-12-16
Test Mode: GSM 850 Middle	
Note:	

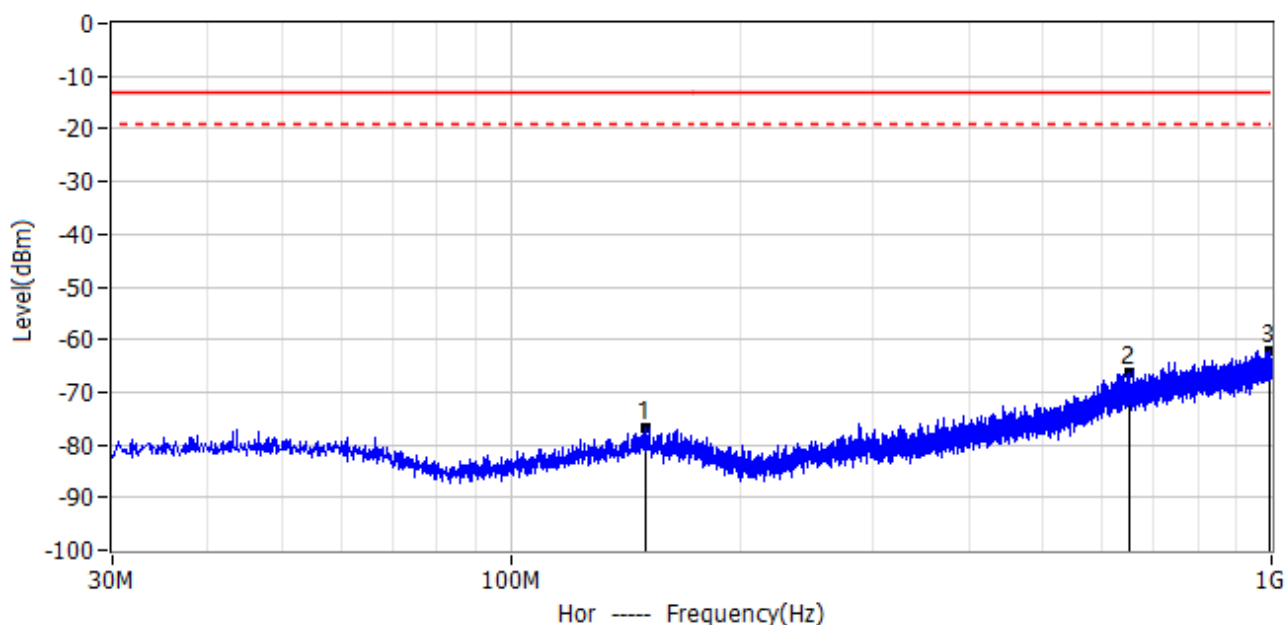


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	170.286MHz	-76.86	-13.00	-63.86	PK	Hor
2*	349.736MHz	-73.49	-13.00	-60.49	PK	Hor
3*	990.421MHz	-61.74	-13.00	-48.74	PK	Hor

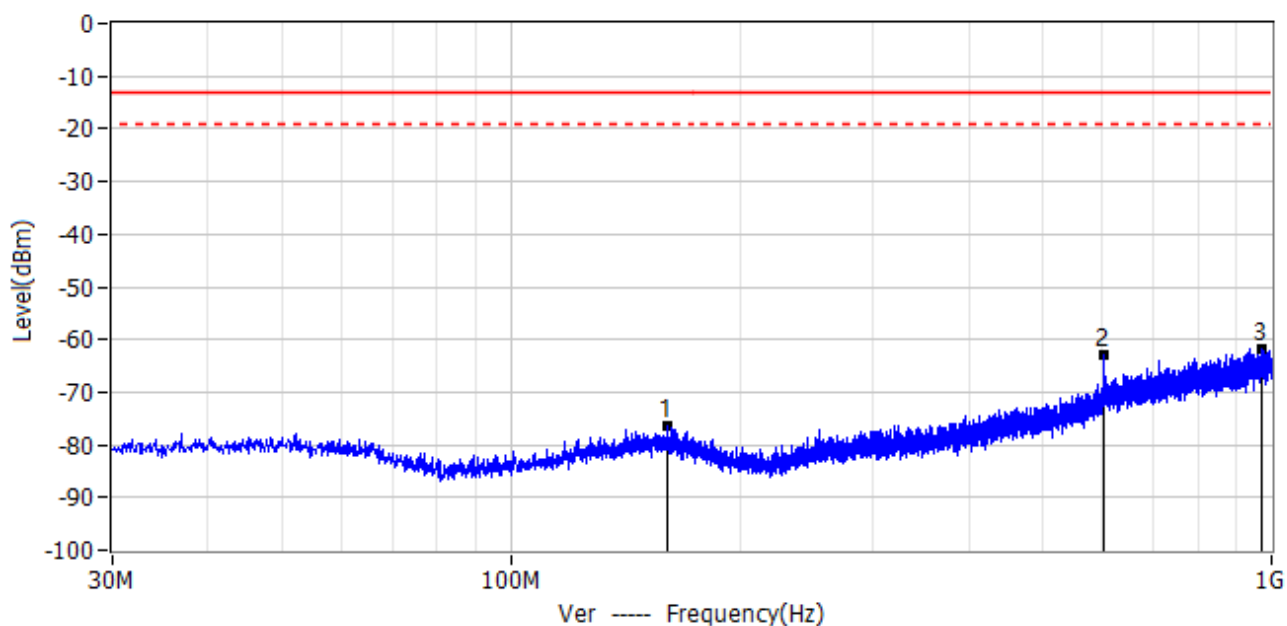


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	163.739MHz	-76.92	-13.00	-63.92	PK	Ver
2*	600.603MHz	-62.87	-13.00	-49.87	PK	Ver
3*	994.301MHz	-60.63	-13.00	-47.63	PK	Ver

Project: LGT22K048	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 20°C
M/N: TickTock-S	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2022-12-16
Test Mode: GSM 850 Highest	
Note:	

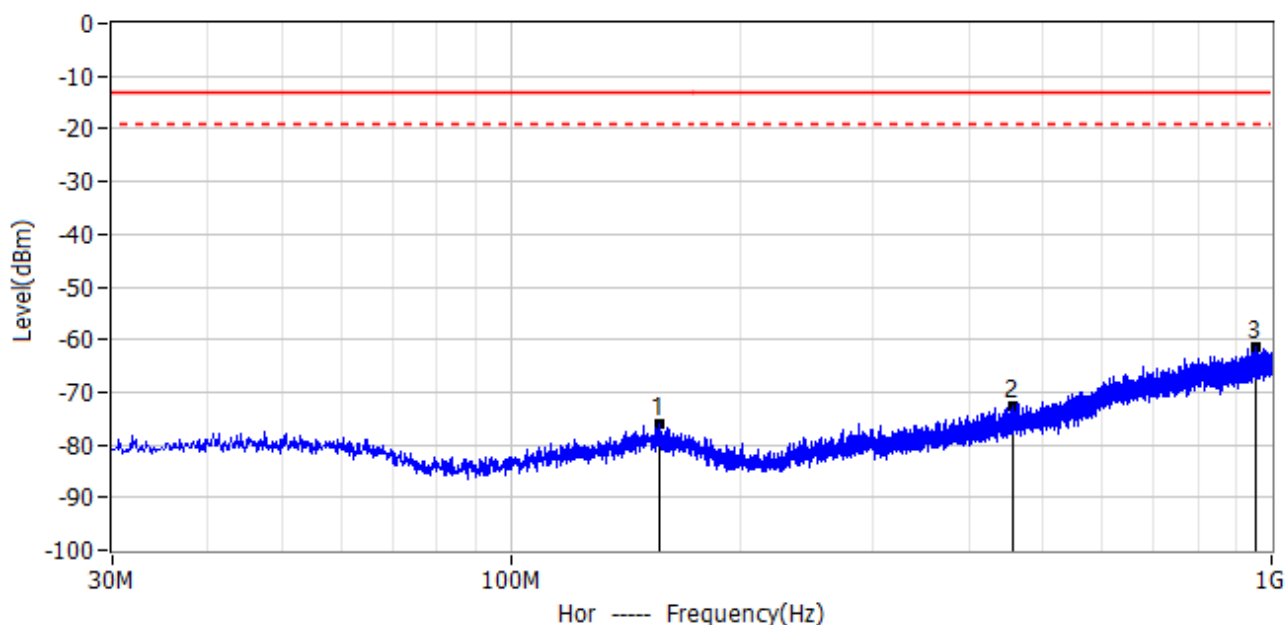


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	150.644MHz	-76.68	-13.00	-63.68	PK	Hor
2*	650.800MHz	-66.13	-13.00	-53.13	PK	Hor
3*	993.089MHz	-62.21	-13.00	-49.21	PK	Hor

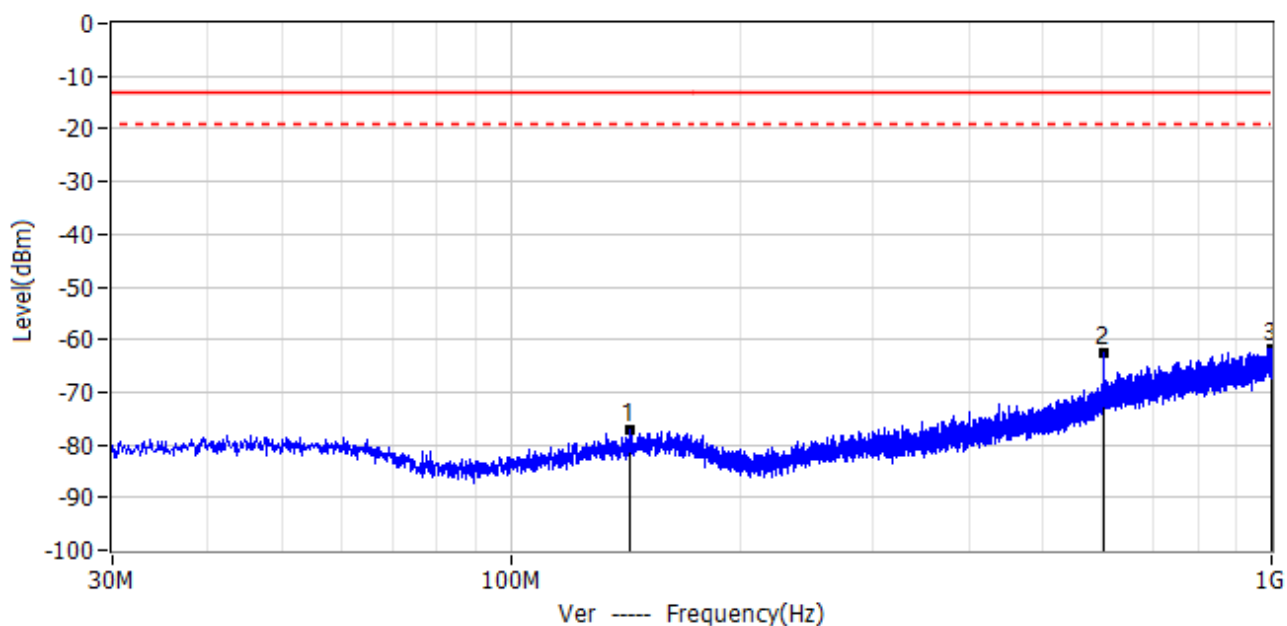


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	160.829MHz	-76.28	-13.00	-63.28	PK	Ver
2*	600.603MHz	-62.74	-13.00	-49.74	PK	Ver
3*	973.083MHz	-61.69	-13.00	-48.69	PK	Ver

Project: LGT22K048	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 20°C
M/N: TickTock-S	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2022-12-16
Test Mode: GSM 1900 Lowest	
Note:	

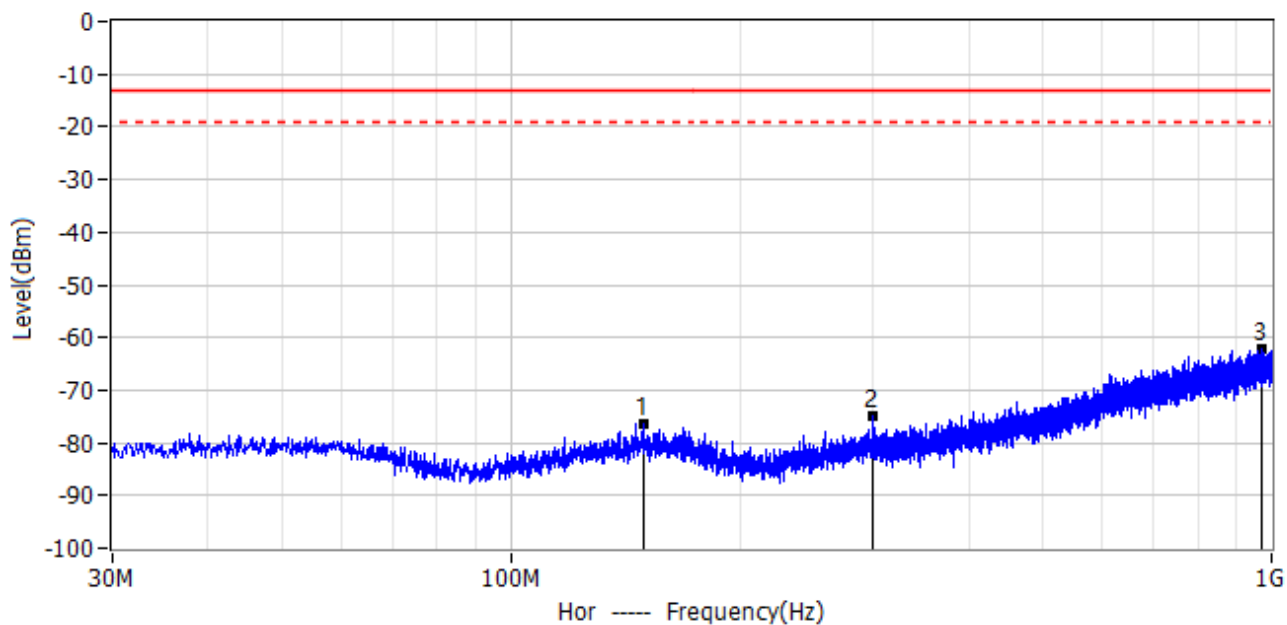


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	157.313MHz	-76.11	-13.00	-63.11	PK	Hor
2*	456.436MHz	-72.75	-13.00	-59.75	PK	Hor
3*	950.773MHz	-61.56	-13.00	-48.56	PK	Hor

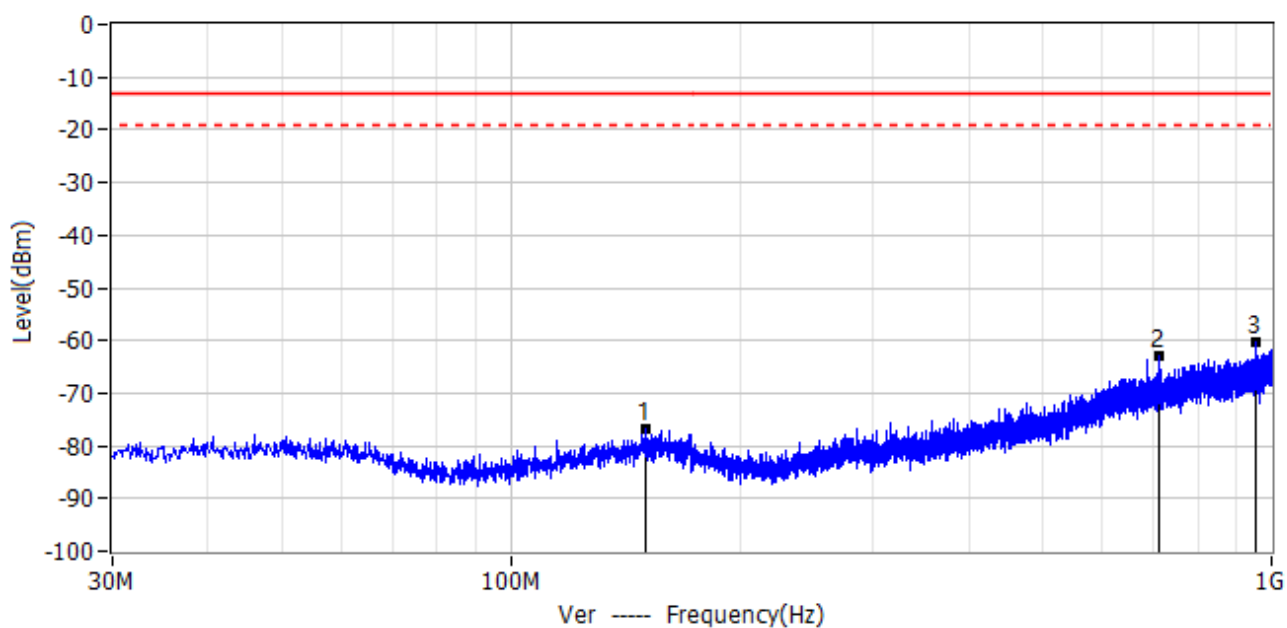


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	143.248MHz	-77.10	-13.00	-64.10	PK	Ver
2*	600.603MHz	-62.67	-13.00	-49.67	PK	Ver
3*	997.090MHz	-61.73	-13.00	-48.73	PK	Ver

Project: LGT22K048	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 20°C
M/N: TickTock-S	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2022-12-16
Test Mode: GSM 1900 Middle	
Note:	

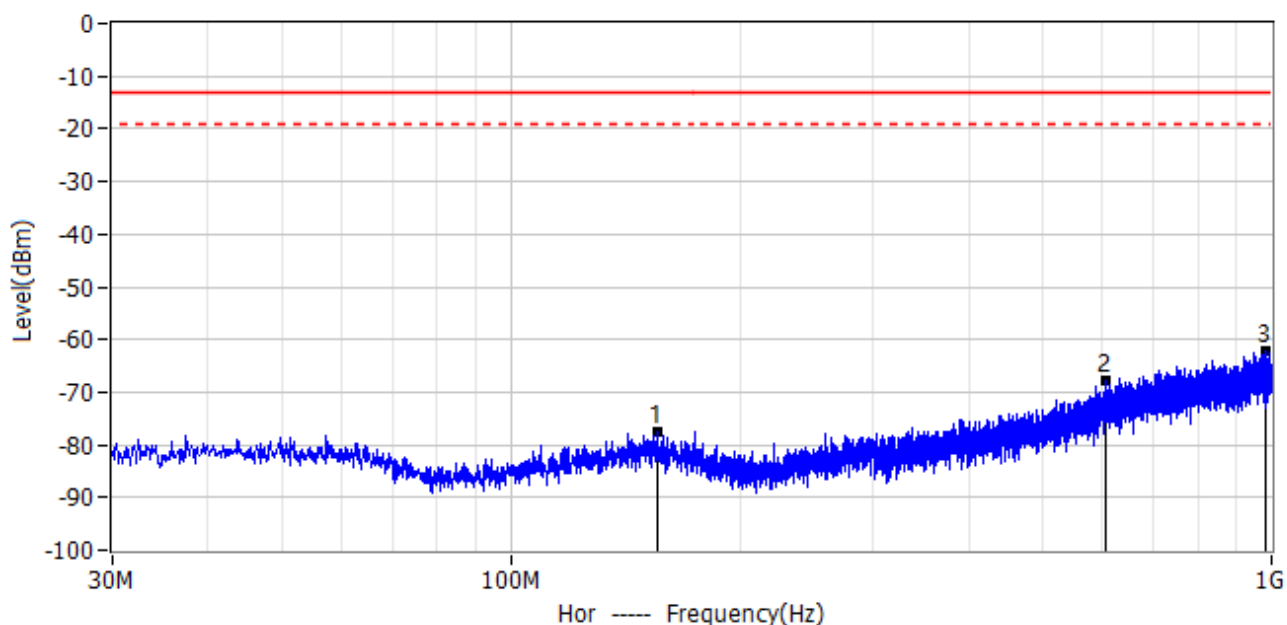


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	149.189MHz	-76.23	-13.00	-63.23	PK	Hor
2*	299.660MHz	-74.98	-13.00	-61.98	PK	Hor
3*	973.204MHz	-62.12	-13.00	-49.12	PK	Hor

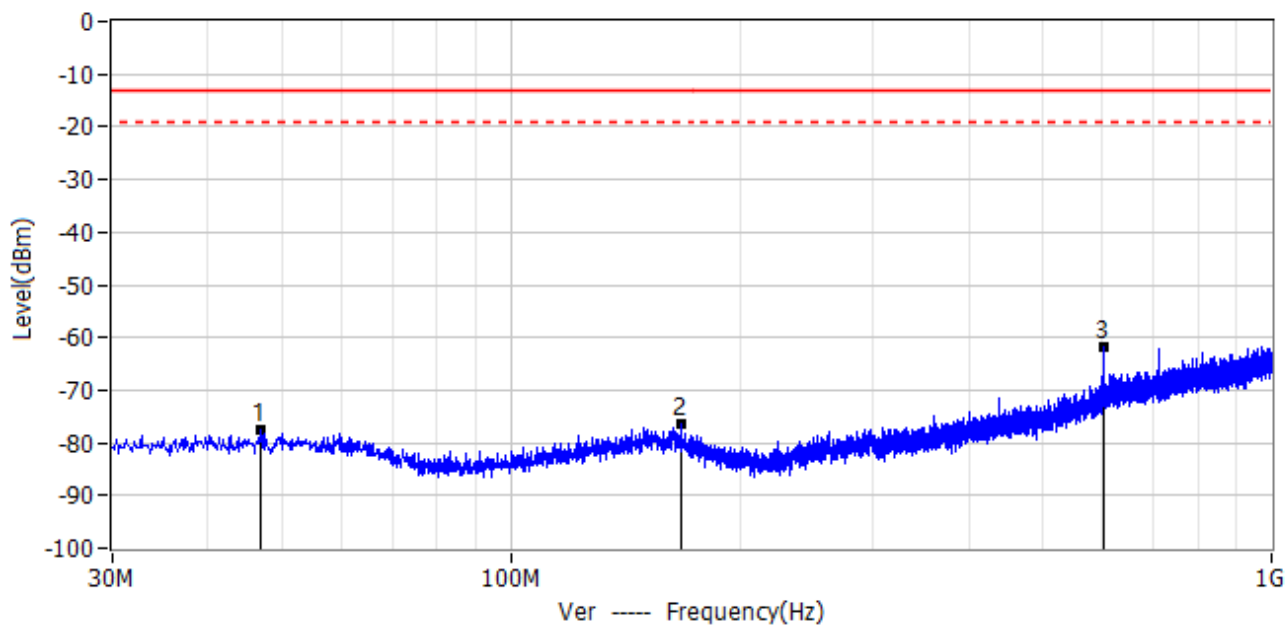


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	150.401MHz	-76.80	-13.00	-63.80	PK	Ver
2*	709.728MHz	-62.82	-13.00	-49.82	PK	Ver
3*	955.744MHz	-60.24	-13.00	-47.24	PK	Ver

Project: LGT22K048	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 20°C
M/N: TickTock-S	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2022-12-16
Test Mode: GSM 1900 Highest	
Note:	

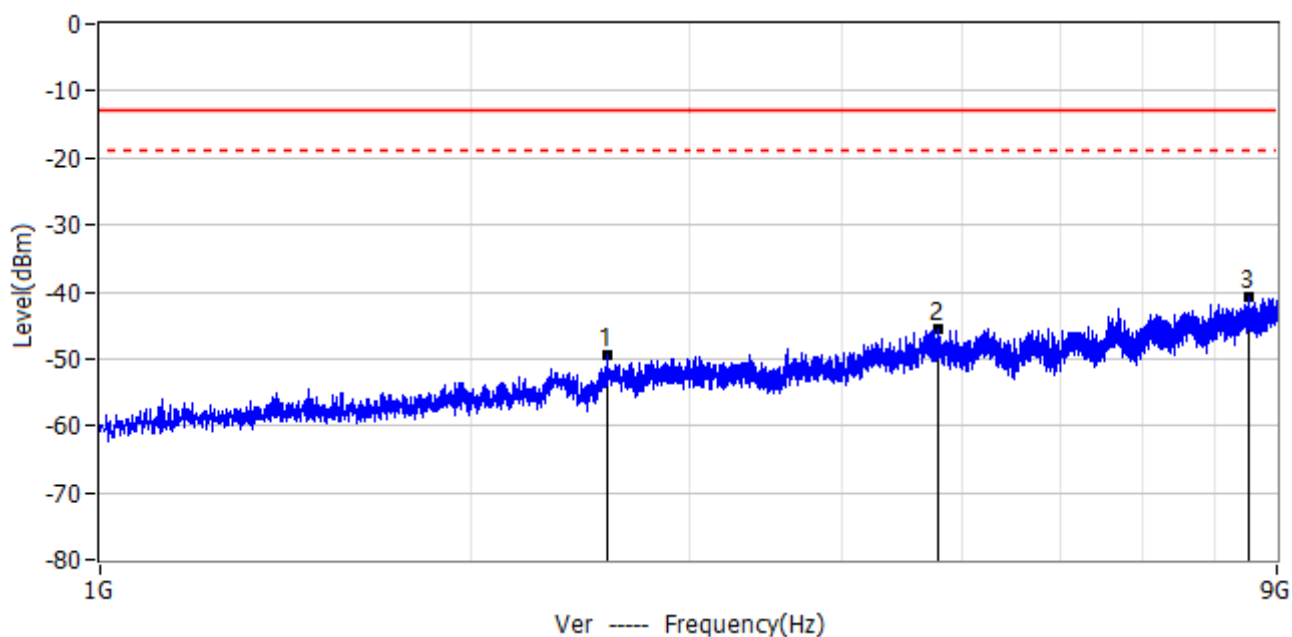
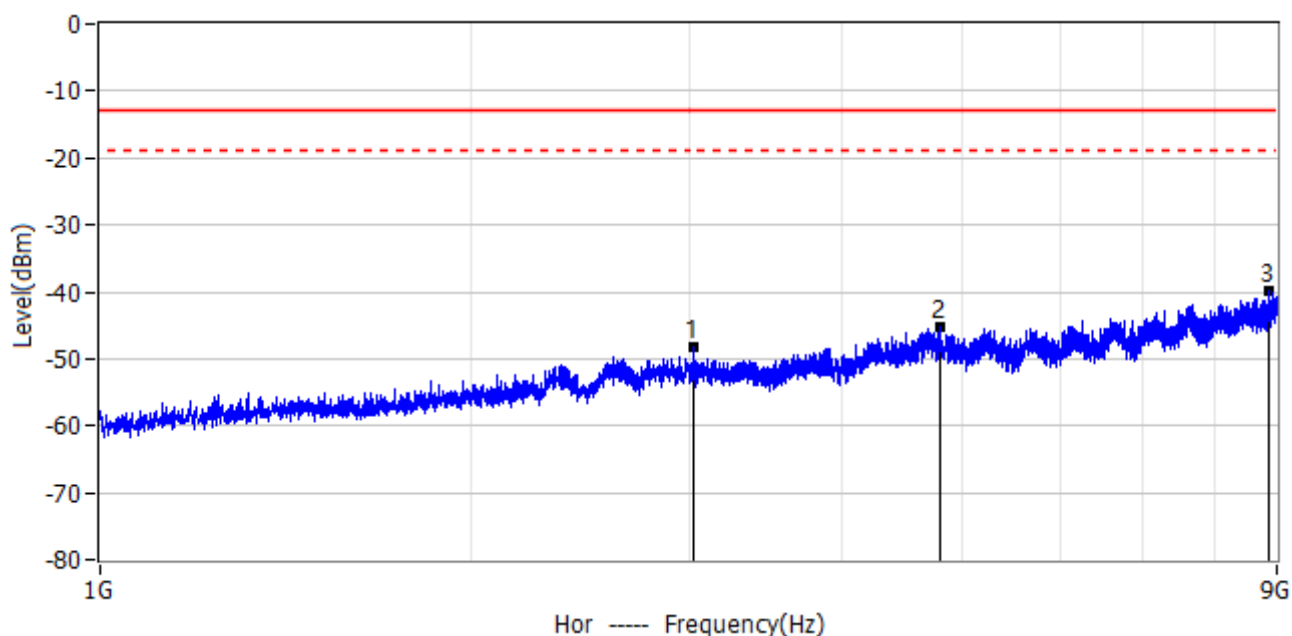


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	155.736MHz	-77.44	-13.00	-64.44	PK	Hor
2*	606.301MHz	-67.62	-13.00	-54.62	PK	Hor
3*	981.085MHz	-62.25	-13.00	-49.25	PK	Hor

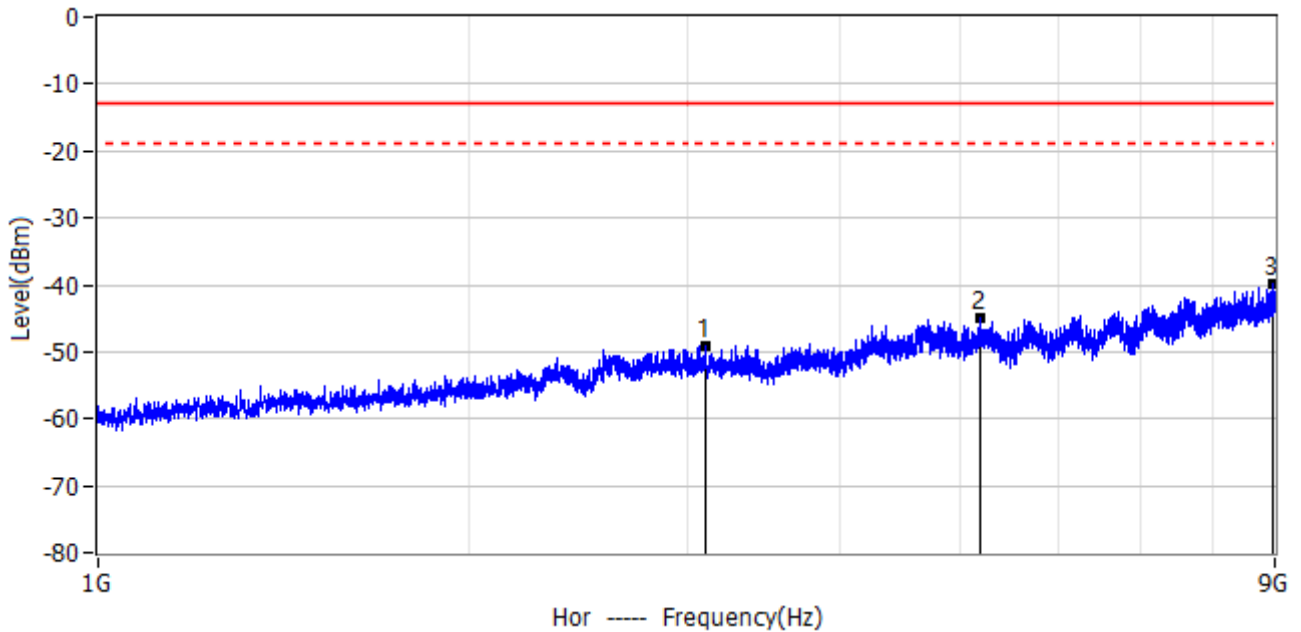


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	46.854MHz	-77.43	-13.00	-64.43	PK	Ver
2*	167.498MHz	-76.45	-13.00	-63.45	PK	Ver
3*	600.603MHz	-61.93	-13.00	-48.93	PK	Ver

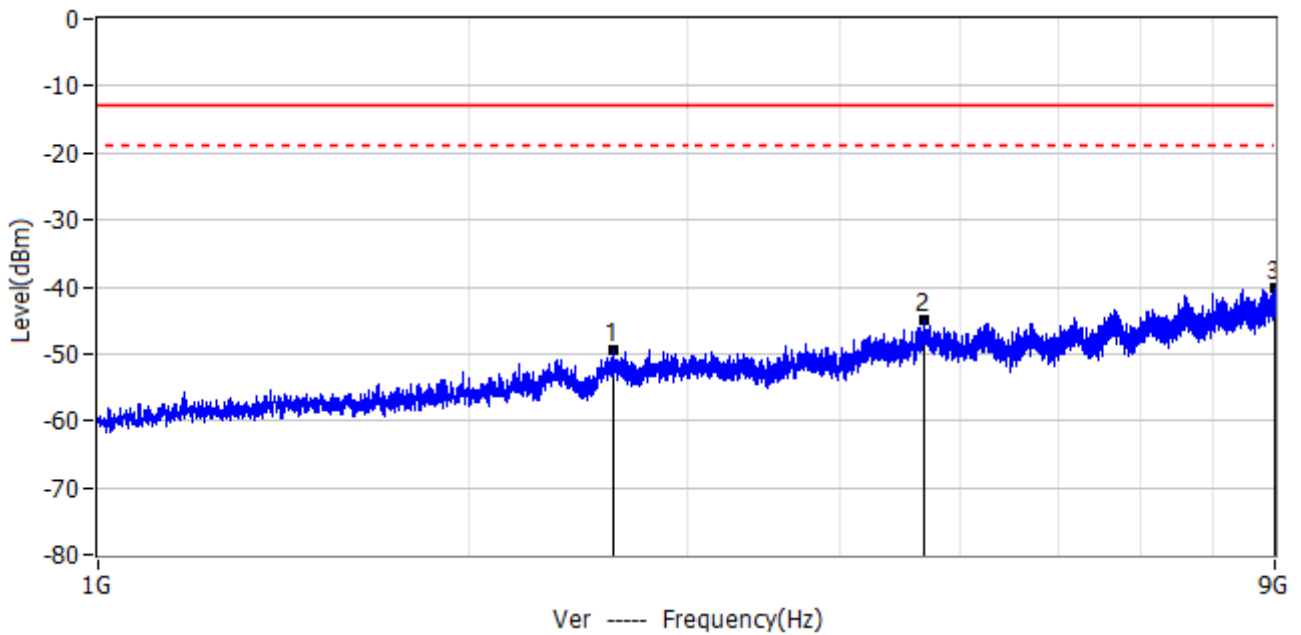
Project: LGT22K048	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 20°C
M/N: TickTock-S	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2022-12-17
Test Mode: GSM 850 Lowest	
Note:	



Project: LGT22K048	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 20°C
M/N: TickTock-S	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2022-12-17
Test Mode: GSM 850 Middle	
Note:	

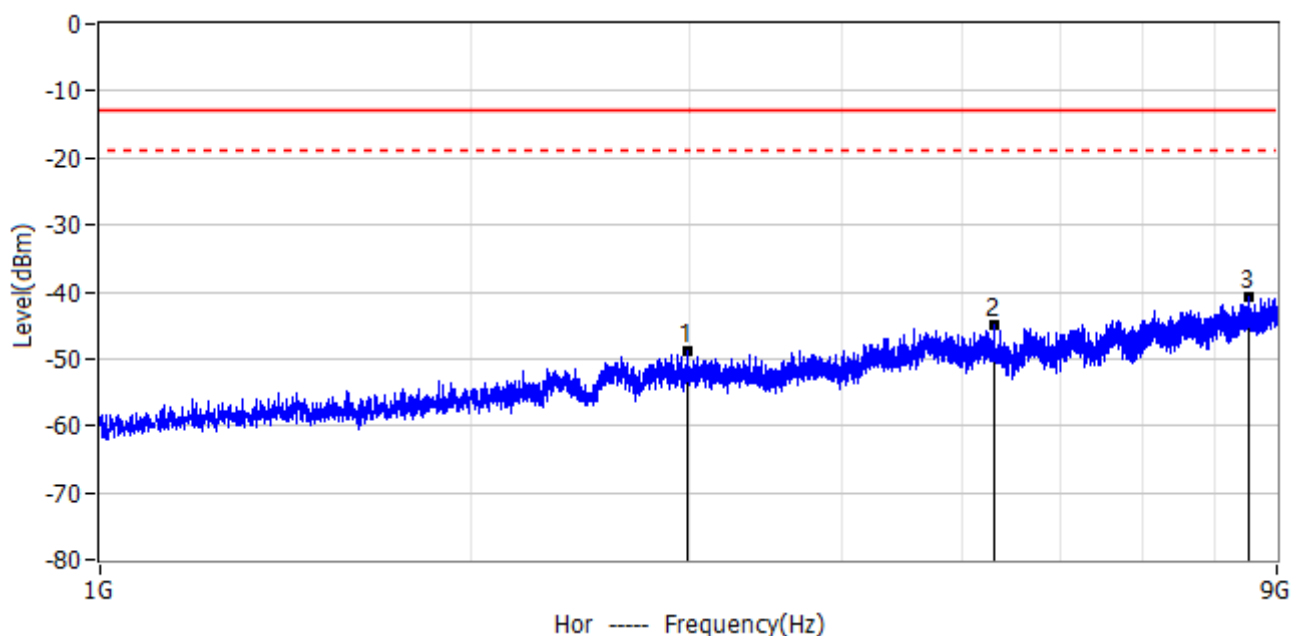


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	3.107GHz	-49.02	-13.00	-36.02	PK	Hor
2*	5.199GHz	-44.97	-13.00	-31.97	PK	Hor
3*	8.974GHz	-39.87	-13.00	-26.87	PK	Hor

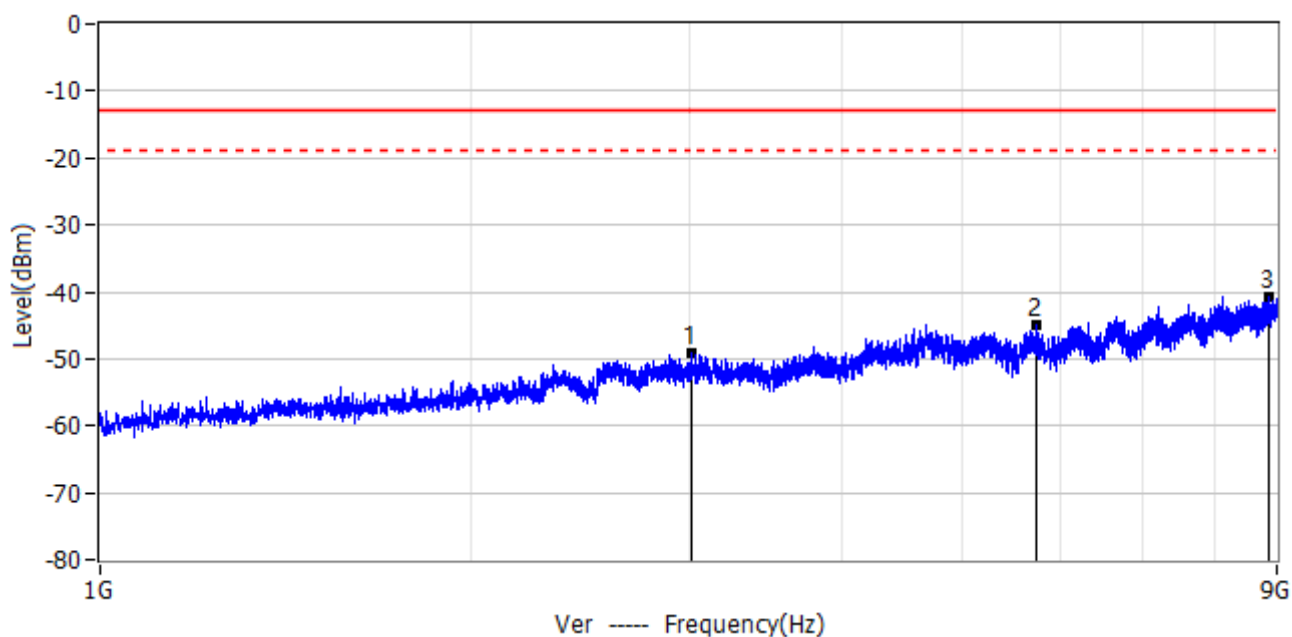


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	2.614GHz	-49.36	-13.00	-36.36	PK	Ver
2*	4.669GHz	-44.95	-13.00	-31.95	PK	Ver
3*	8.988GHz	-40.03	-13.00	-27.03	PK	Ver

Project: LGT22K048	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 20°C
M/N: TickTock-S	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2022-12-17
Test Mode: GSM 850 Highest	
Note:	

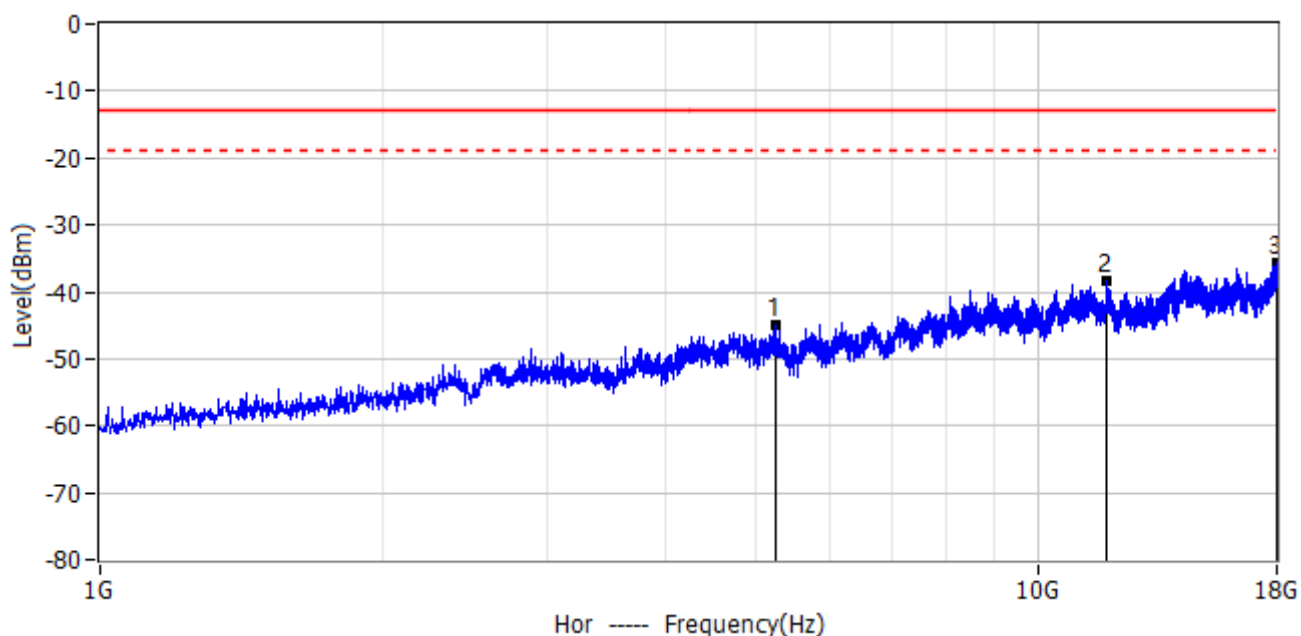


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	2.992GHz	-48.85	-13.00	-35.85	PK	Hor
2*	5.306GHz	-45.01	-13.00	-32.01	PK	Hor
3*	8.535GHz	-40.89	-13.00	-27.89	PK	Hor

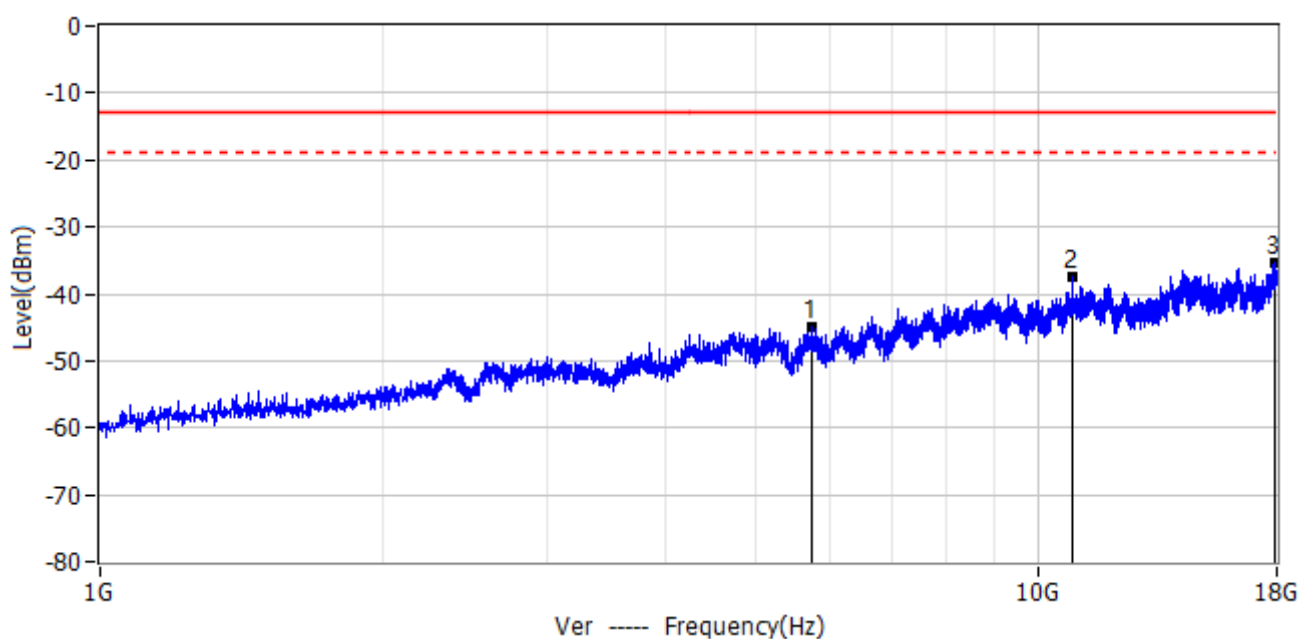


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	3.021GHz	-49.15	-13.00	-36.15	PK	Ver
2*	5.754GHz	-45.05	-13.00	-32.05	PK	Ver
3*	8.869GHz	-40.64	-13.00	-27.64	PK	Ver

Project: LGT22K048	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 20°C
M/N: TickTock-S	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2022-12-17
Test Mode: GSM 1900 Lowest	
Note:	

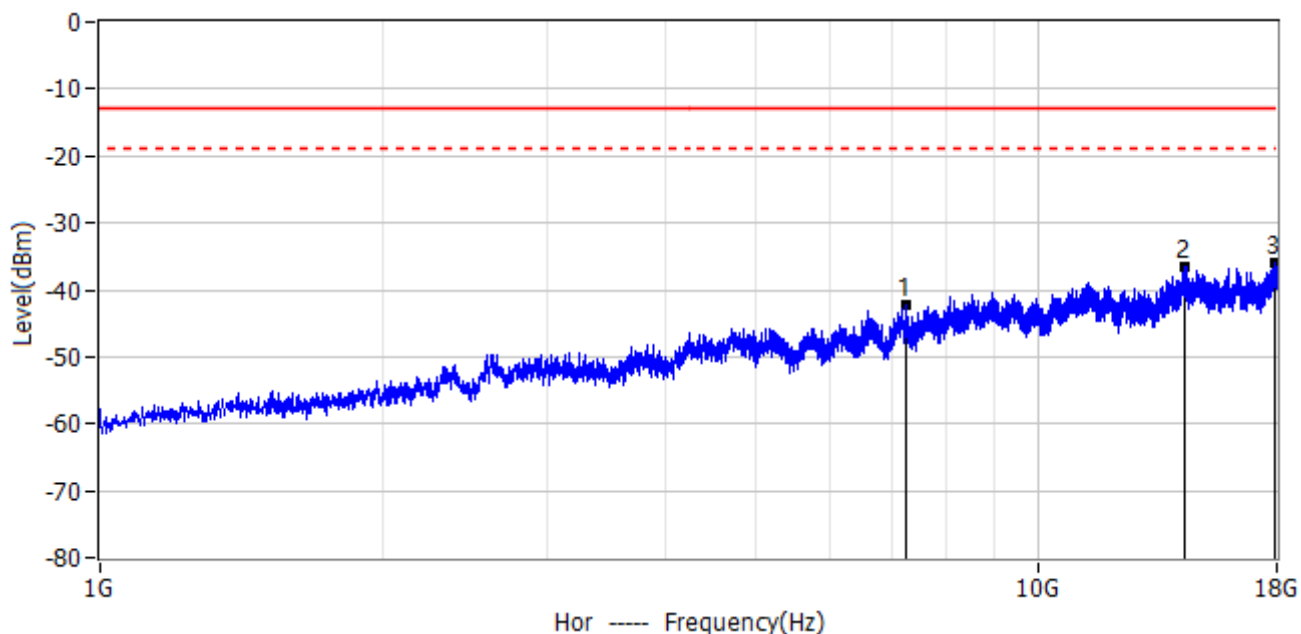


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	5.250GHz	-44.94	-13.00	-31.94	PK	Hor
2*	11.872GHz	-38.32	-13.00	-25.32	PK	Hor
3*	17.958GHz	-35.58	-13.00	-22.58	PK	Hor

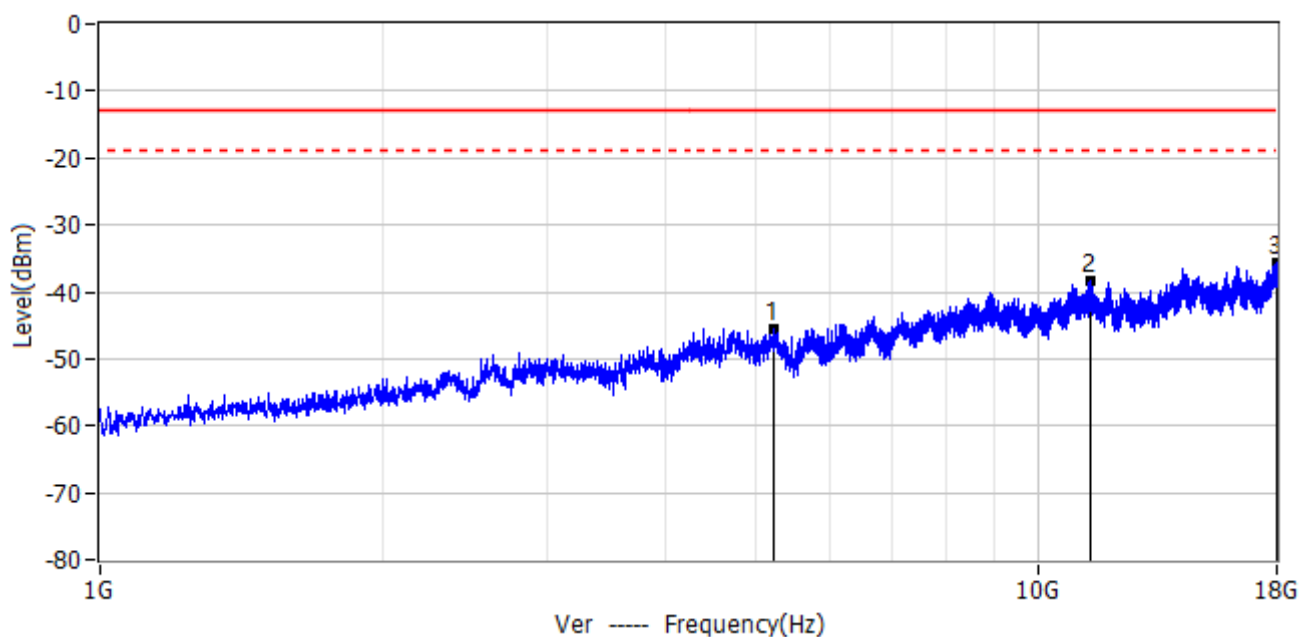


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	5.749GHz	-45.07	-13.00	-32.07	PK	Ver
2*	10.911GHz	-37.45	-13.00	-24.45	PK	Ver
3*	17.928GHz	-35.50	-13.00	-22.50	PK	Ver

Project: LGT22K048	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 20°C
M/N: TickTock-S	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2022-12-17
Test Mode: GSM 1900 Middle	
Note:	

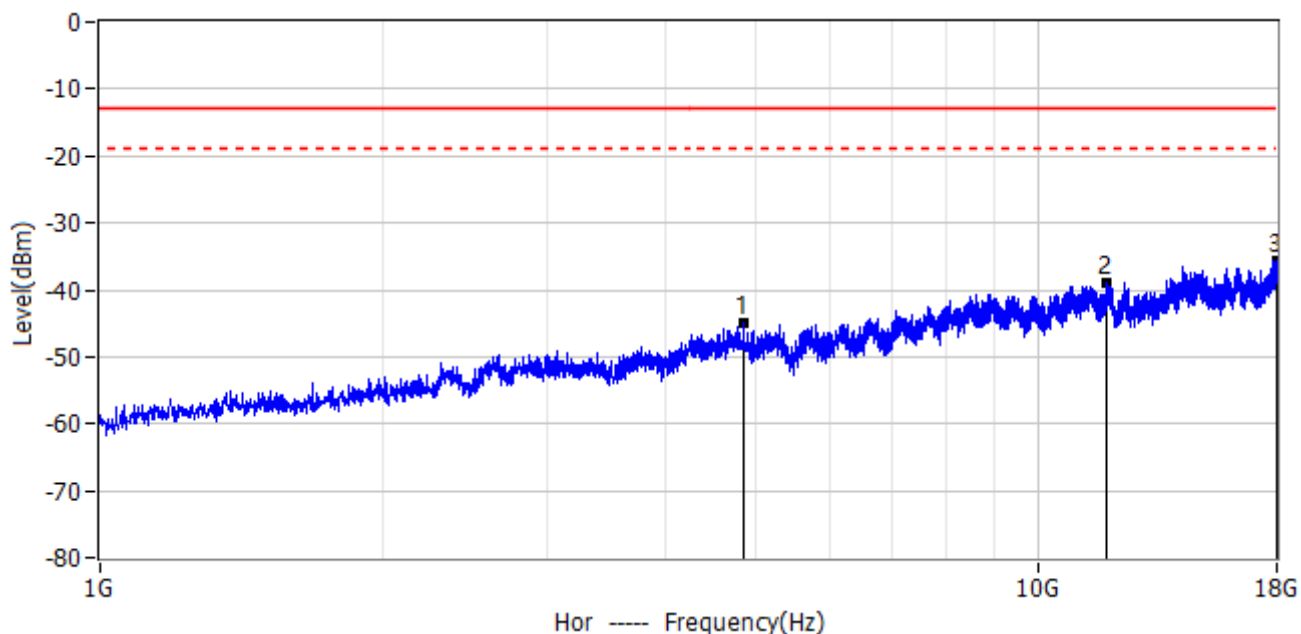


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	7.233GHz	-42.22	-13.00	-29.22	PK	Hor
2*	14.326GHz	-36.47	-13.00	-23.47	PK	Hor
3*	17.879GHz	-36.03	-13.00	-23.03	PK	Hor

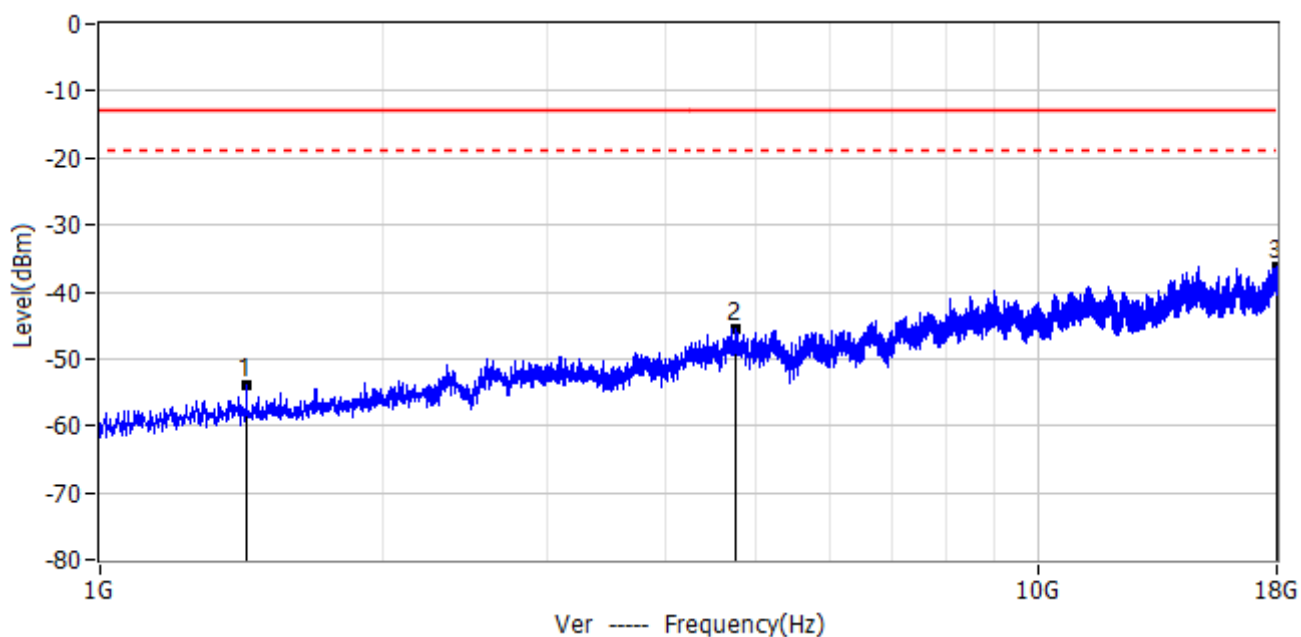


No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	5.235GHz	-45.44	-13.00	-32.44	PK	Ver
2*	11.376GHz	-38.42	-13.00	-25.42	PK	Ver
3*	17.981GHz	-35.78	-13.00	-22.78	PK	Ver

Project: LGT22K048	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 20°C
M/N: TickTock-S	Humidity: 59%RH
Test Voltage: Battery	Test Data: 2022-12-17
Test Mode: GSM 1900 Highest	
Note:	



No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	4.859GHz	-44.81	-13.00	-31.81	PK	Hor
2*	11.867GHz	-38.91	-13.00	-25.91	PK	Hor
3*	17.981GHz	-35.56	-13.00	-22.56	PK	Hor



No.	Frequency	Level dBm	Limit dBm	Margin dB	Detector	Polar
1*	1.434GHz	-54.06	-13.00	-41.06	PK	Ver
2*	4.763GHz	-45.42	-13.00	-32.42	PK	Ver
3*	17.992GHz	-36.12	-13.00	-23.12	PK	Ver