



FCC RF Test Report

APPLICANT : BLU Products, Inc.
EQUIPMENT : Mobile Phone
BRAND NAME : BLU
MODEL NAME : VIVO XI+
FCC ID : YHLBLUVIVOXIP
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on May 31, 2018 and completely tested on Jun. 21, 2018. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Shenzhen) Inc., the test report shall not be reproduced except in full.



Approved by: Eric Shih / Manager

Sporton International (Shenzhen) Inc.

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Guangdong Province 518055 China***



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG853112A	Rev. 01	Initial issue of report	Jun. 26, 2018

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22H	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 22.490 dB at 5640.000 MHz



1 General Description

1.1 Applicant

BLU Products, Inc.

10814 NW 33rd St # 100 Doral, FL 33172 , USA

1.2 Manufacturer

BLU Products, Inc.

10814 NW 33rd St # 100 Doral, FL 33172 , USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	BLU
Model Name	VIVO XI+
FCC ID	YHLBLUVIVOXIP
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth BR/EDR/LE
IMEI Code	Conduction: 354147042328444/ 354147042328449 Radiation: 354147042328469/354147042378464
HW Version	Vivo XI+_Mainboard_P3
SW Version	Vivo XI+_2307
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM/GPRS/EDGE: 850: 824.2 MHz ~ 848.8 MHz 1900: 1850.2 MHz ~ 1909.8MHz WCDMA: Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz Band IV: 1712.4 MHz ~ 1752.6 MHz
Rx Frequency	GSM/GPRS/EDGE: 850: 869.2 MHz ~ 893.8 MHz 1900: 1930.2 MHz ~ 1989.8 MHz WCDMA: Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz Band IV: 2112.4 MHz ~ 2152.6 MHz
Maximum Output Power to Antenna	GSM/GPRS/EDGE: 850: 33.45 dBm 1900: 30.59 dBm WCDMA: Band V: 23.19 dBm Band II: 23.01 dBm Band IV: 23.28 dBm
Antenna Type	Fixed Internal Antenna
Antenna Gain	Cellular Band: -1.36 dBi PCS Band: -0.25 dBi AWS Band: -0.27 dBi
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: BPSK (Uplink) HSDPA/DC-HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM DC-HSDPA : 64QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22H	GSM850 GSM	GMSK	0.9863	0.0117 ppm	243KGXW
Part 22H	GSM850 EDGE class 8	8PSK	0.2223	0.0281 ppm	243KG7W
Part 22H	WCDMA Band V RMC 12.2Kbps	BPSK	0.0929	0.0108 ppm	4M17F9W
Part 24E	GSM1900 GSM	GMSK	1.0814	0.0223 ppm	245KGXW
Part 24E	GSM1900 EDGE class 8	8PSK	0.2958	0.0057 ppm	237KG7W
Part 24E	WCDMA Band II RMC 12.2Kbps	BPSK	0.1888	0.0111 ppm	4M17F9W
Part 27L	WCDMA Band IV RMC 12.2Kbps	BPSK	0.2000	0.0068 ppm	4M17F9W

1.7 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No. are CN5018 and CN5019.

Test Site	Sporton International (Shenzhen) Inc.	
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.
	TH01-SZ	251365

Test Site	Sporton International (Shenzhen) Inc.	
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan District Shenzhen City Guangdong Province 518055 China TEL: +86-755-3320-2398	
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.
	03CH01-SZ	577730

Note: The test site complies with ANSI C63.4 2014 requirement.

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 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:

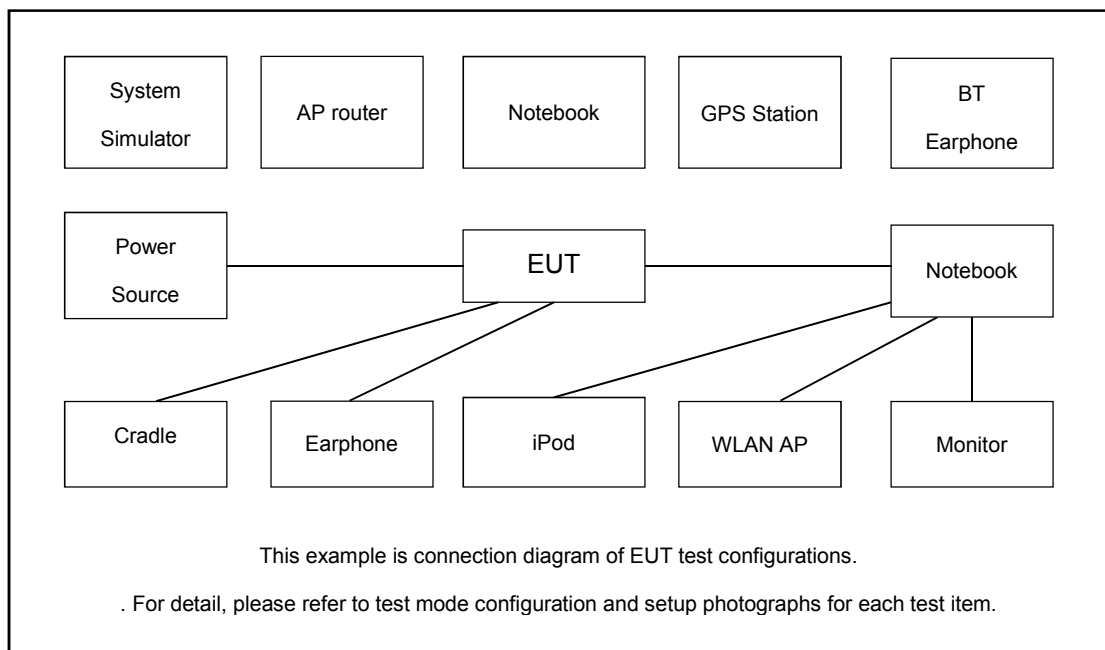
1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
2. 30 MHz to 10th harmonic for WCDMA Band IV.
3. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

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

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	■ GSM Link ■ EDGE class 8 Link	■ GSM Link ■ EDGE class 8 Link
GSM 1900	■ GSM Link ■ EDGE class 8 Link	■ GSM Link ■ EDGE class 8 Link
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	wireless charger	Samsung	EP-NG930	N/A	N/A	N/A

Note: Wireless charging mode verify harmonic of worse case of adapter mode for RSE.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.0 dB and a 10dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.0 + 10 = 14.0 \text{ (dB)}\end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
GSM850	Channel	128	189	251
	Frequency	824.2	836.4	848.8
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
GSM1900	Channel	512	661	810
	Frequency	1850.2	1880.0	1909.8
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6
WCDMA Band IV	Channel	1312	1413	1513
	Frequency	1712.4	1732.6	1752.6

3 Conducted Test Result

3.1 Measuring Instruments

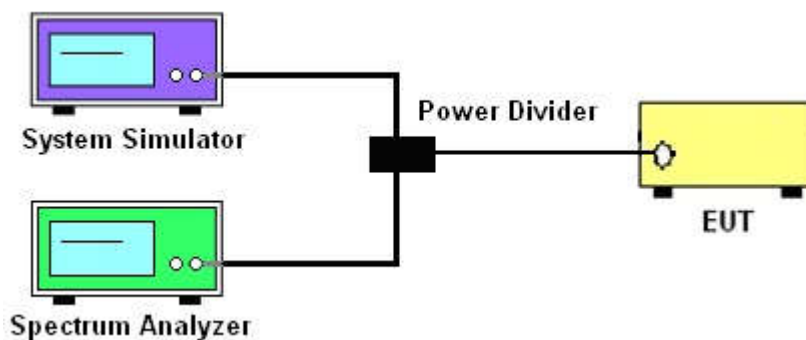
See list of measuring instruments of this test report.

3.2 Test Setup

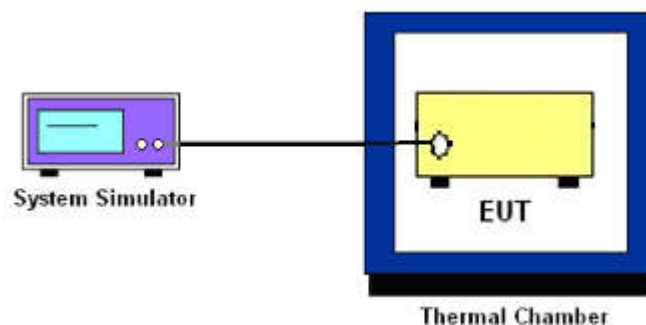
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power and ERP/EIRP

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.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II.

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.



3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.6.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

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.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

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.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 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 band edges of low and high channels for the highest RF powers were measured.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 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)

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
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 step 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.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

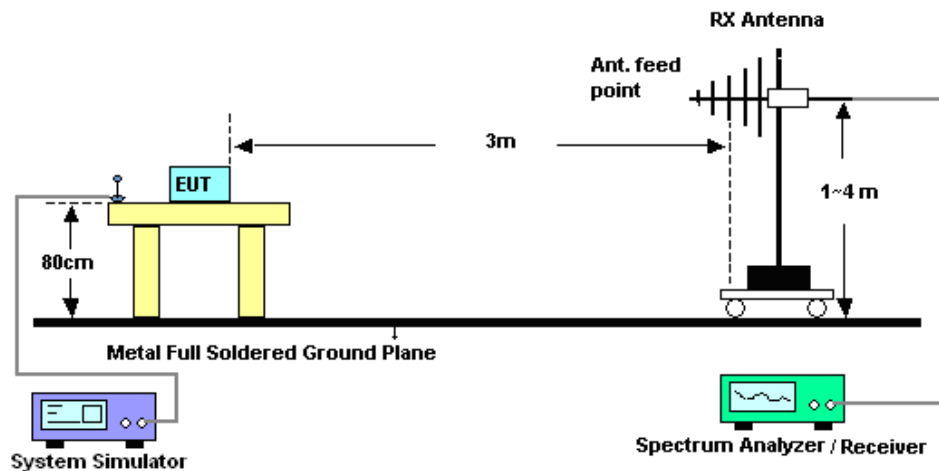
4 Radiated Test Items

4.1 Measuring Instruments

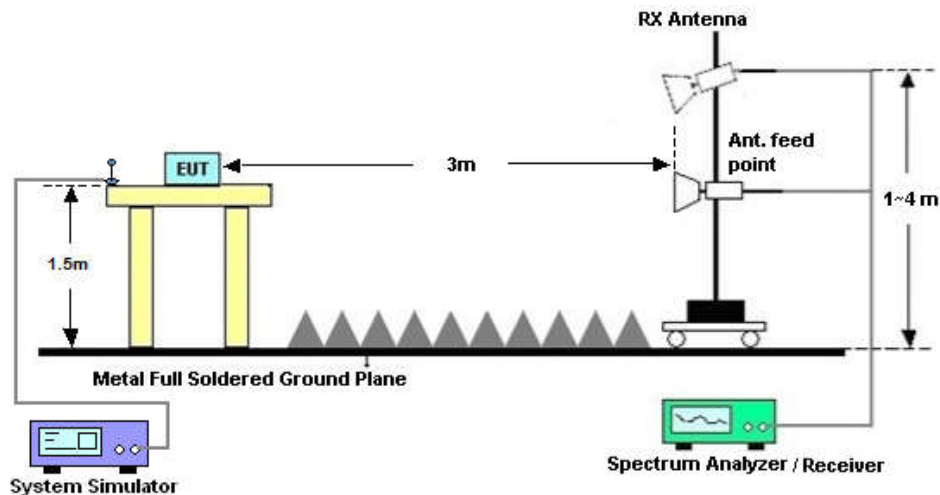
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
12. $ERP \text{ (dBm)} = EIRP - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	Apr. 19, 2018	Jun. 07, 2018	Apr. 18, 2019	Conducted (TH01-SZ)
Radio Communicatio	Anritsu	MT8820C	6201563777	2G/3G/4G (CDMA)	Jan. 03, 2018	Jun. 07, 2018	Jan. 02, 2019	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 20, 2017	Jun. 07, 2018	Jul. 19, 2018	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Apr. 19, 2018	Jun. 07, 2018~Jun. 21, 2018	Apr. 18, 2019	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270104	0.5GHz~26.5Ghz	Oct. 19, 2017	Jun. 07, 2018~Jun. 21, 2018	Oct. 18, 2018	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Apr. 19, 2018	Jun. 07, 2018~Jun. 21, 2018	Apr. 18, 2019	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	119436	1GHz~18GHz	Jul. 28, 2017	Jun. 07, 2018~Jun. 21, 2018	Jul. 27, 2018	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Mar. 30, 2018	Jun. 07, 2018~Jun. 21, 2018	Mar. 29, 2019	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 19, 2018	Jun. 07, 2018~Jun. 21, 2018	Apr. 18, 2019	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1707137	1GHz~18GHz	Oct. 19, 2017	Jun. 07, 2018~Jun. 21, 2018	Oct. 18, 2018	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 18, 2017	Jun. 07, 2018~Jun. 21, 2018	Jul. 17, 2018	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Jun. 07, 2018~Jun. 21, 2018	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 07, 2018~Jun. 21, 2018	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 07, 2018~Jun. 21, 2018	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required



6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.5 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.5 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.0 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	33.21	33.45	33.33	30.57	30.59	30.56
GPRS class 8	33.18	33.42	33.31	30.55	30.57	30.54
GPRS class 10	32.12	32.38	32.27	29.31	29.34	29.32
GPRS class 11	29.92	30.20	30.06	26.84	26.85	26.84
GPRS class 12	28.78	29.06	28.91	25.76	25.75	25.75
EGPRS class 8	26.98	26.85	26.89	24.96	24.83	24.74
EGPRS class 10	25.92	25.83	25.84	23.88	23.72	23.66
EGPRS class 11	23.92	23.76	23.79	21.74	21.71	21.31
EGPRS class 12	22.74	22.72	22.74	20.68	20.52	20.35

Conducted Power (*Unit: dBm)									
Band	WCDMA Band V			WCDMA Band II			WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
AMR 12.2K	23.16	23.18	23.13	22.97	22.96	23.00	23.23	23.26	23.27
RMC 12.2K	23.17	23.19	23.15	22.99	22.98	23.01	23.25	23.27	23.28
HSDPA Subtest-1	22.16	22.14	22.14	21.97	21.97	22.02	22.28	22.25	22.25
HSDPA Subtest-2	22.12	22.13	22.04	21.92	21.94	21.91	22.18	22.18	22.13
HSDPA Subtest-3	21.65	21.61	21.49	21.39	21.37	21.44	21.67	21.71	21.66
HSDPA Subtest-4	21.66	21.65	21.51	21.41	21.34	21.44	21.64	21.68	21.75
DC-HSDPA Subtest-1	22.03	22.07	22.05	21.92	21.95	21.98	21.99	22.02	22.07
DC-HSDPA Subtest-2	22.01	22.05	22.04	21.90	21.94	21.97	21.97	22.01	22.05
DC-HSDPA Subtest-3	21.42	21.45	21.40	21.28	21.22	21.31	21.48	21.54	21.57
DC-HSDPA Subtest-4	21.43	21.44	21.43	21.26	21.21	21.32	21.45	21.51	21.58
HSUPA Subtest-1	20.13	20.17	20.12	20.03	20.03	20.05	20.26	20.25	20.32
HSUPA Subtest-2	20.12	20.13	20.08	20.02	19.97	20.04	20.25	20.23	20.22
HSUPA Subtest-3	21.14	21.16	21.07	20.99	21.02	21.04	21.22	21.27	21.28
HSUPA Subtest-4	19.64	19.69	19.60	19.43	19.47	19.51	19.74	19.80	19.77
HSUPA Subtest-5	21.20	21.10	21.00	21.00	21.00	21.00	21.10	21.20	21.20
HSPA+ (16QAM) Subtest-1	19.32	19.38	19.36	19.13	19.15	19.12	19.43	19.49	19.46

**ERP/EIRP**

GSM850 ($G_T - L_C = -1.36$ dBi)			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency	824.2	836.4	848.8
(MHz)			
Conducted Power (dBm)	33.21	33.45	33.33
Conducted Power (Watts)	2.0941	2.2131	2.1528
ERP(dBm)	29.70	29.94	29.82
ERP(Watts)	0.9333	0.9863	0.9594

EDGE850 ($G_T - L_C = -1.36$ dBi)			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency	824.2	836.4	848.8
(MHz)			
Conducted Power (dBm)	26.98	26.85	26.89
Conducted Power (Watts)	0.4989	0.4842	0.4887
ERP(dBm)	23.47	23.34	23.38
ERP(Watts)	0.2223	0.2158	0.2178



GSM1900 ($G_T - L_C = -0.25$ dBi)			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency	1850.2	1880	1909.8
(MHz)			
Conducted Power (dBm)	30.57	30.59	30.56
Conducted Power (Watts)	1.1402	1.1455	1.1376
EIRP(dBm)	30.32	30.34	30.31
EIRP(Watts)	1.0765	1.0814	1.0740

EDGE1900 ($G_T - L_C = -0.25$ dBi)			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency	1850.2	1880	1909.8
(MHz)			
Conducted Power (dBm)	24.96	24.83	24.74
Conducted Power (Watts)	0.3133	0.3041	0.2979
EIRP(dBm)	24.71	24.58	24.49
EIRP(Watts)	0.2958	0.2871	0.2812



WCDMA Band V ($G_T - L_C = -1.36$ dBi)			
Channel	4132	4182	4233
	(Low)	(Mid)	(High)
Frequency	826.4	836.4	846.6
(MHz)			
Conducted Power (dBm)	23.17	23.19	23.15
Conducted Power (Watts)	0.2075	0.2084	0.2065
ERP(dBm)	19.66	19.68	19.64
ERP(Watts)	0.0925	0.0929	0.0920

WCDMA Band II ($G_T - L_C = -0.25$ dBi)			
Channel	9262	9400	9538
	(Low)	(Mid)	(High)
Frequency	1852.4	1880	1907.6
(MHz)			
Conducted Power (dBm)	22.99	22.98	23.01
Conducted Power (Watts)	0.1991	0.1986	0.2000
EIRP(dBm)	22.74	22.73	22.76
EIRP(Watts)	0.1879	0.1875	0.1888

WCDMA Band IV ($G_T - L_C = -0.27$ dBi)			
Channel	1312	1413	1513
	(Low)	(Mid)	(High)
Frequency	1712.4	1732.6	1752.6
(MHz)			
Conducted Power (dBm)	23.25	23.27	23.28
Conducted Power (Watts)	0.2113	0.2123	0.2128
EIRP(dBm)	22.98	23.00	23.01
EIRP(Watts)	0.1986	0.1995	0.2000

**Peak-to-Average Ratio**

Mode	GSM850(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.17	3.07	PASS
Middle CH	0.12	2.93	
Highest CH	0.12	3.10	

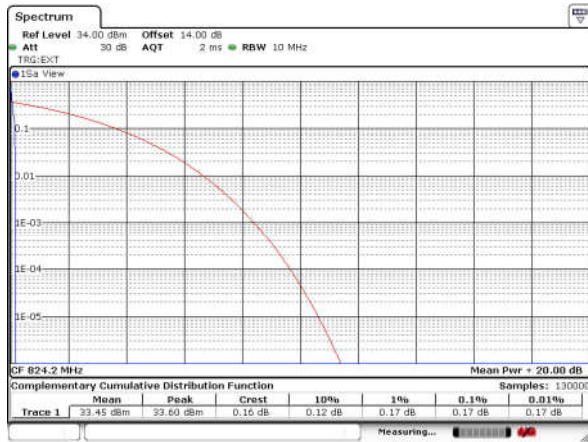
Mode	GSM1900(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.12	3.28	PASS
Middle CH	0.12	3.45	
Highest CH	0.12	3.16	

Mode	WCDMA Band V(dB)	WCDMA Band II(dB)	WCDMA Band IV(dB)	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.93	2.84	2.84	PASS
Middle CH	2.84	3.01	3.01	
Highest CH	2.72	2.87	3.07	



GSM850 (GSM)

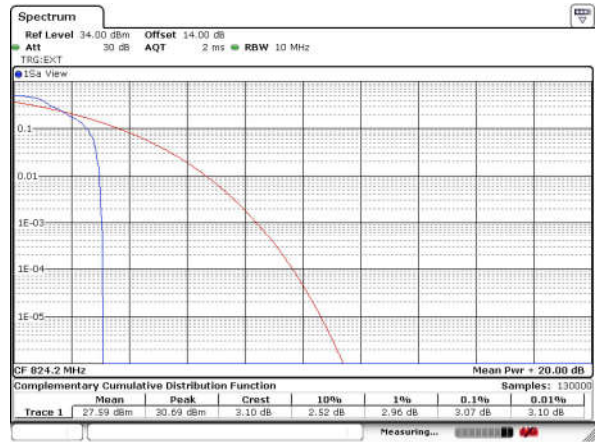
Lowest Channel



Date: 7 JUN 2018 22:37:49

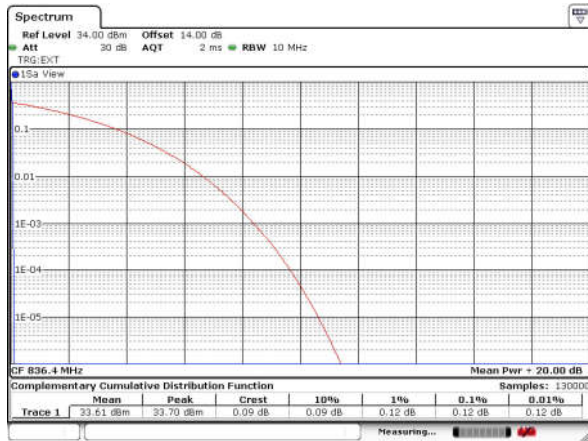
GSM850 (EDGE class 8)

Lowest Channel



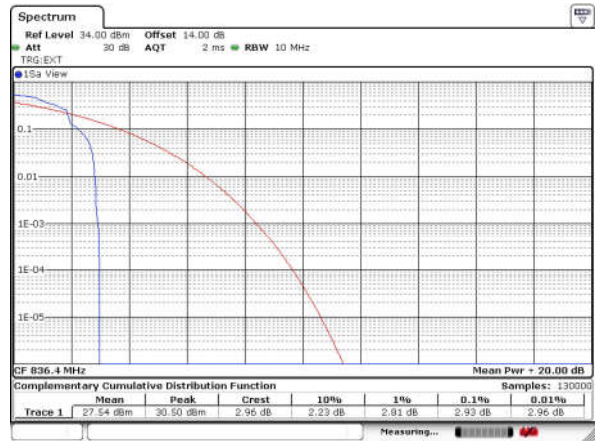
Date: 7 JUN 2018 22:36:21

Middle Channel



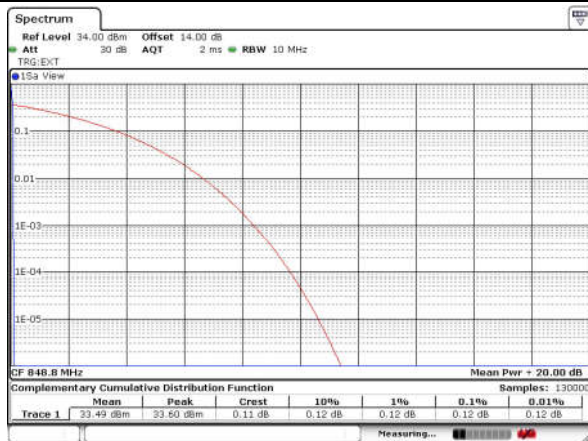
Date: 7 JUN 2018 22:38:04

Middle Channel



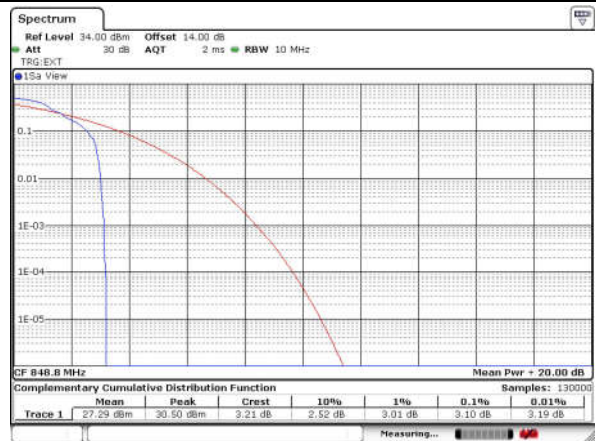
Date: 7 JUN 2018 22:36:38

Highest Channel



Date: 7 JUN 2018 22:38:21

Highest Channel

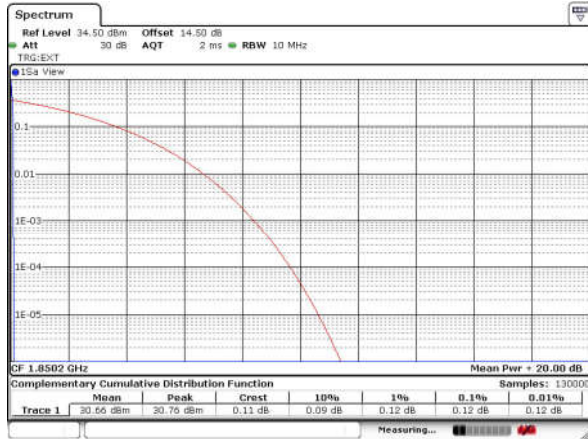


Date: 7 JUN 2018 22:36:54



GSM1900 (GSM)

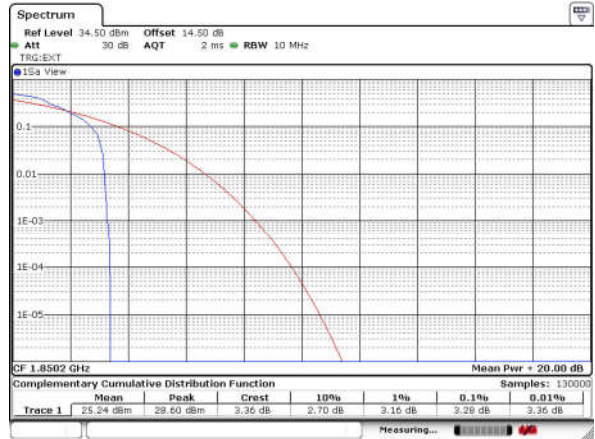
Lowest Channel



Date: 7 JUN 2018 22:41:05

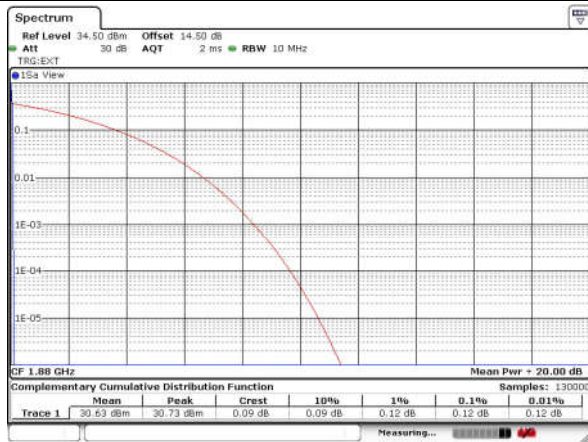
GSM1900 (EDGE class 8)

Lowest Channel



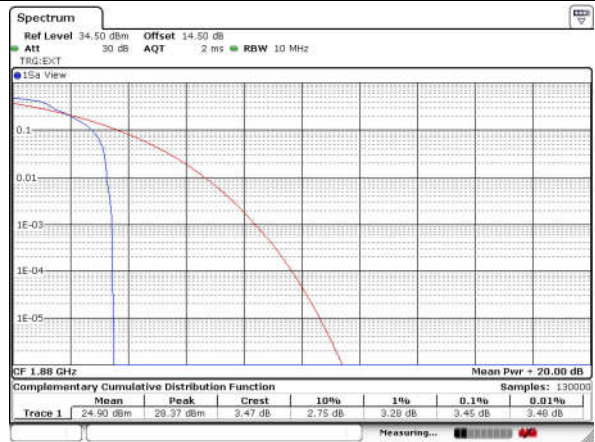
Date: 7 JUN 2018 22:09:07

Middle Channel



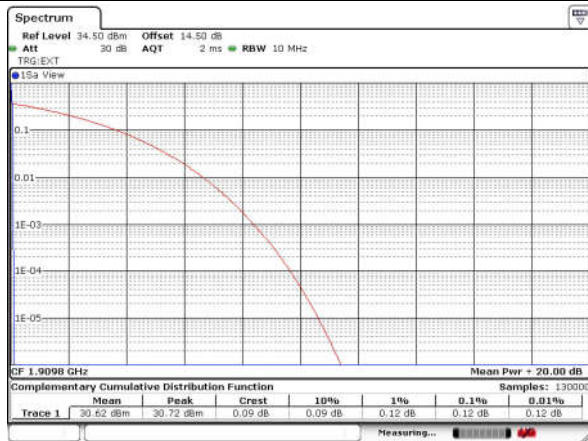
Date: 7 JUN 2018 22:41:28

Middle Channel



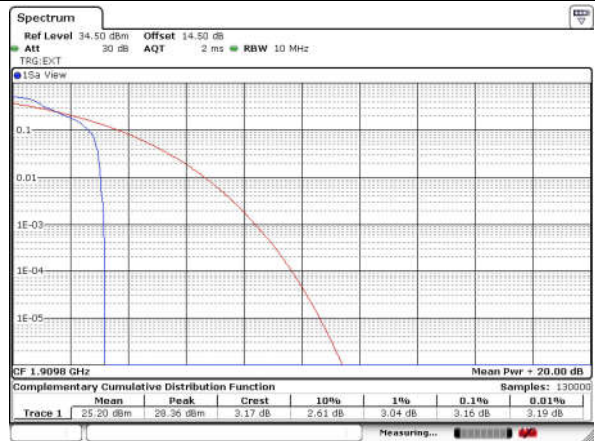
Date: 7 JUN 2018 22:10:38

Highest Channel



Date: 7 JUN 2018 22:41:52

Highest Channel

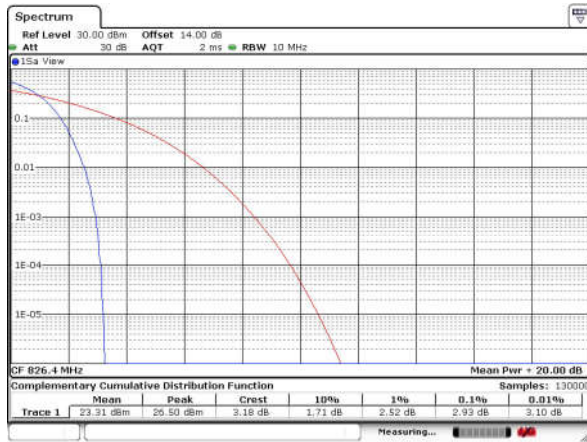


Date: 7 JUN 2018 22:13:23



WCDMA Band V (RMC 12.2Kbps)

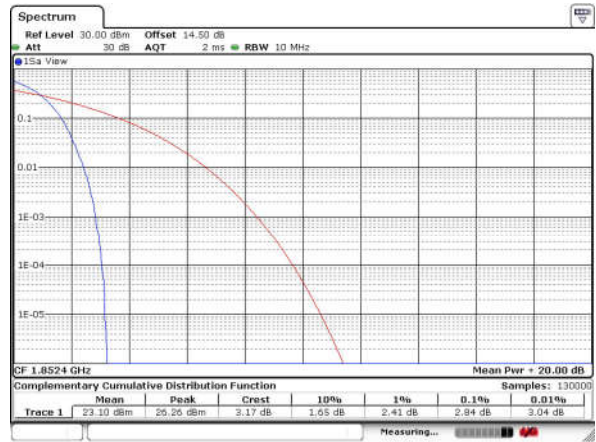
Lowest Channel



Date: 7 JUN 2018 23:56:04

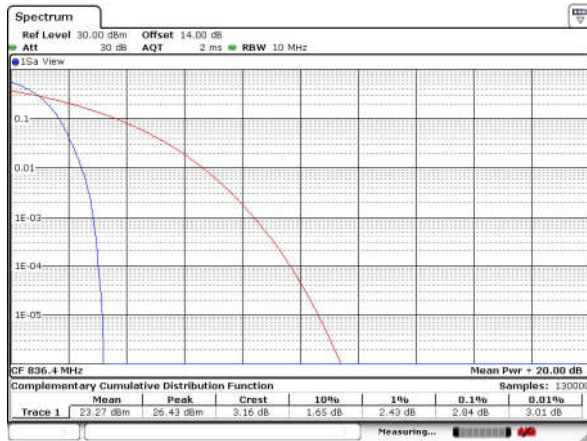
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



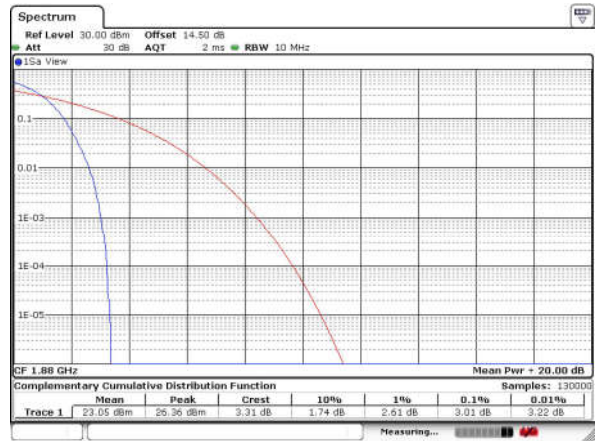
Date: 7 JUN 2018 23:10:31

Middle Channel



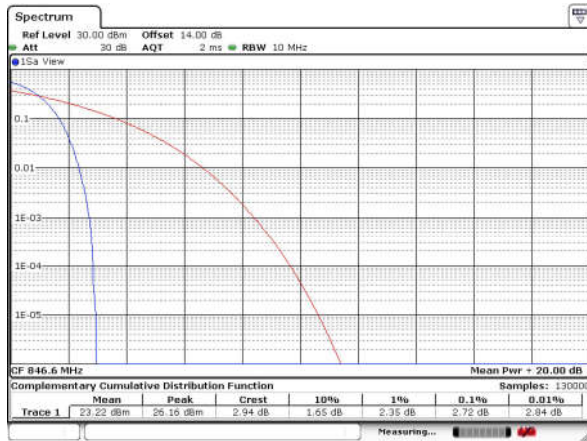
Date: 7 JUN 2018 23:56:23

Middle Channel



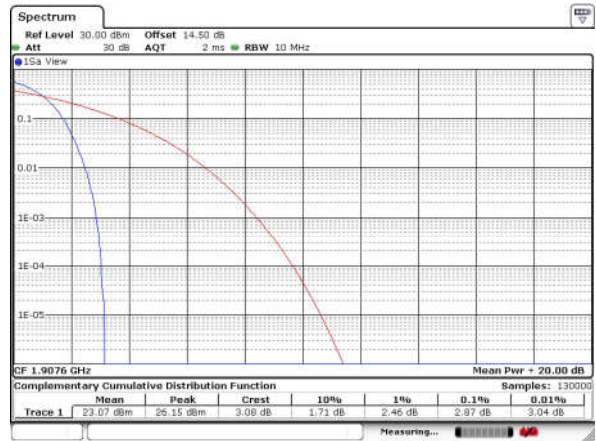
Date: 7 JUN 2018 23:10:44

Highest Channel



Date: 7 JUN 2018 23:56:38

Highest Channel

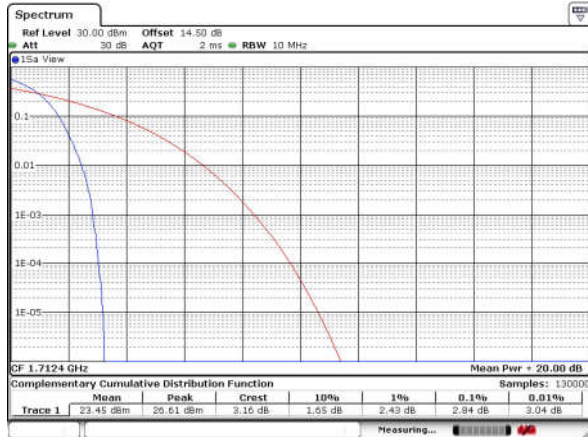


Date: 7 JUN 2018 23:11:12

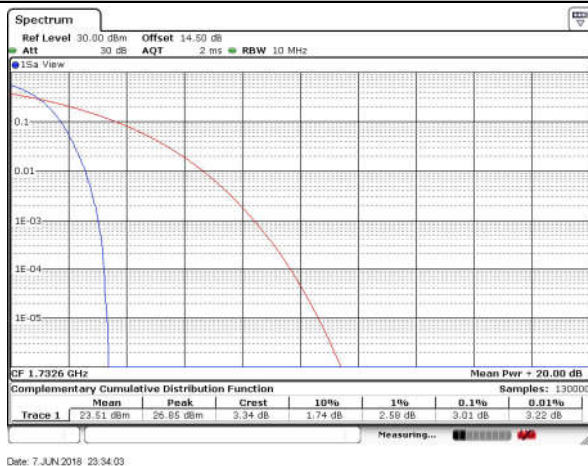


WCDMA Band IV (RMC 12.2Kbps)

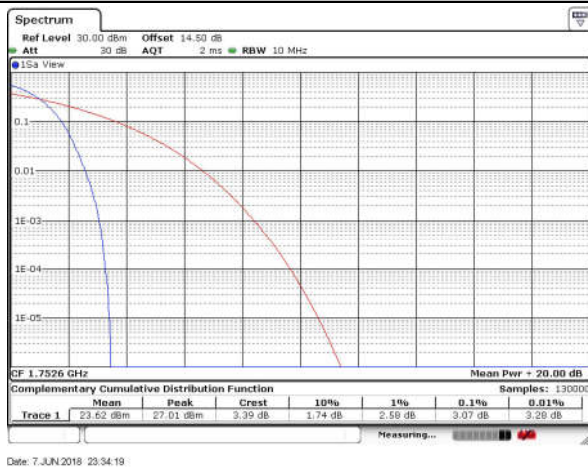
Lowest Channel



Middle Channel



Highest Channel



**26dB Bandwidth**

Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.312	0.312
Middle CH	0.316	0.313
Highest CH	0.311	0.316

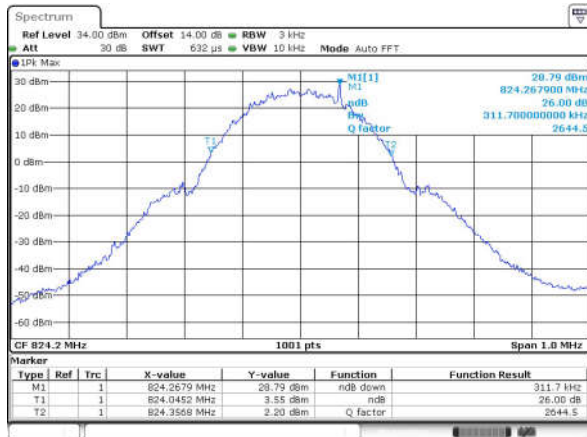
Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.315	0.291
Middle CH	0.316	0.288
Highest CH	0.316	0.288

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.71	4.72	4.72
Middle CH	4.72	4.72	4.71
Highest CH	4.73	4.72	4.72



GSM850 (GSM)

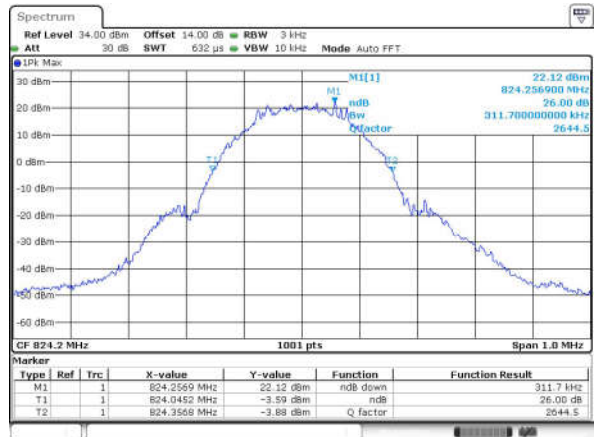
Lowest Channel



Date: 7 JUN 2018 20:06:48

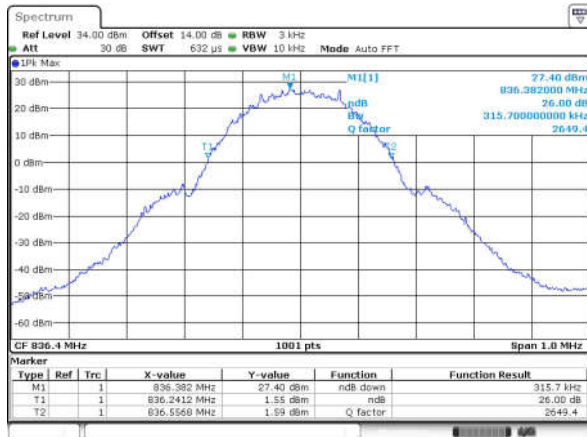
GSM850 (EDGE class 8)

Lowest Channel



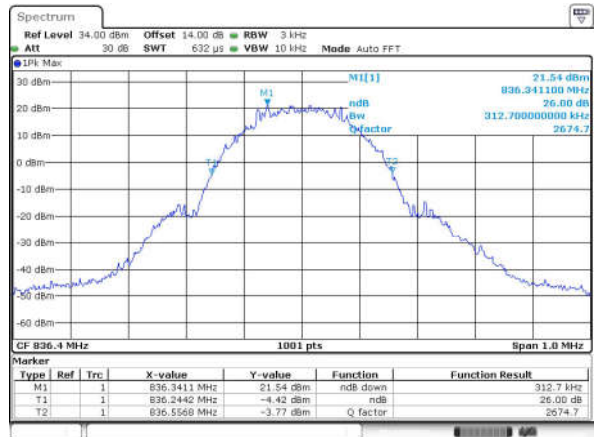
Date: 7 JUN 2018 22:21:57

Middle Channel



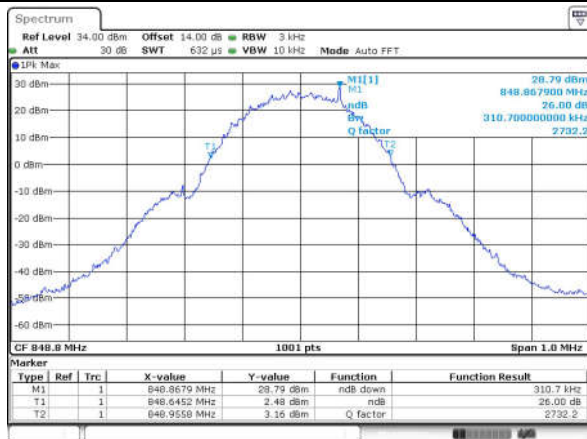
Date: 7 JUN 2018 20:07:38

Middle Channel



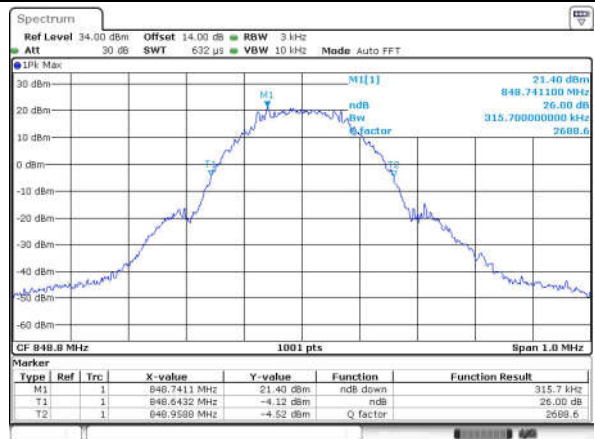
Date: 7 JUN 2018 22:23:43

Highest Channel



Date: 7 JUN 2018 20:08:15

Highest Channel

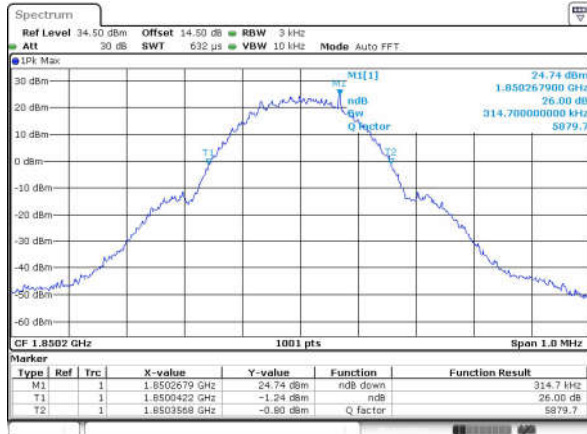


Date: 7 JUN 2018 22:24:37



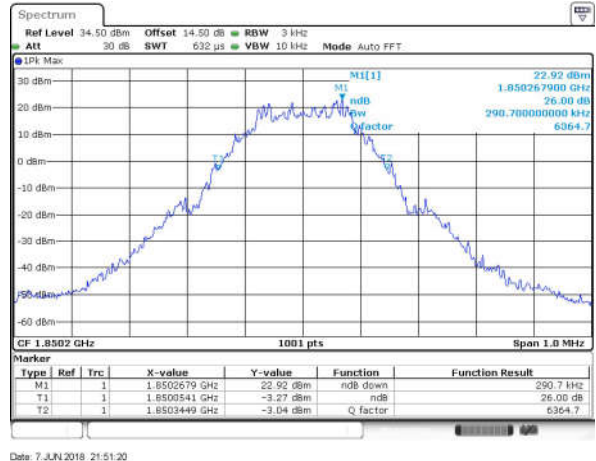
GSM1900 (GSM)

Lowest Channel

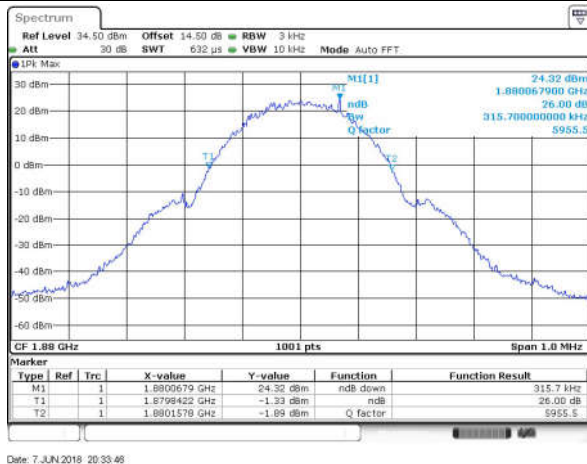


GSM1900 (EDGE class 8)

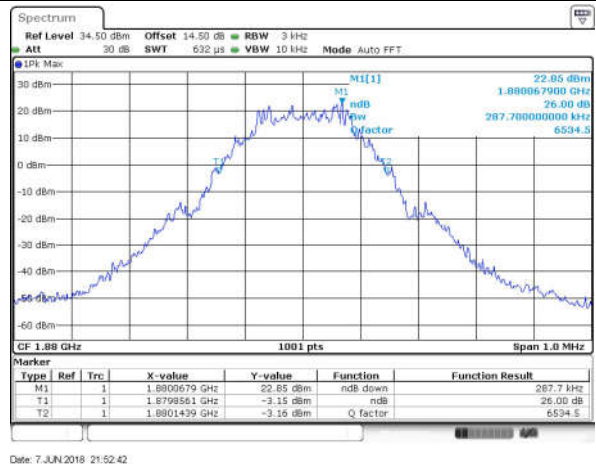
Lowest Channel



Middle Channel



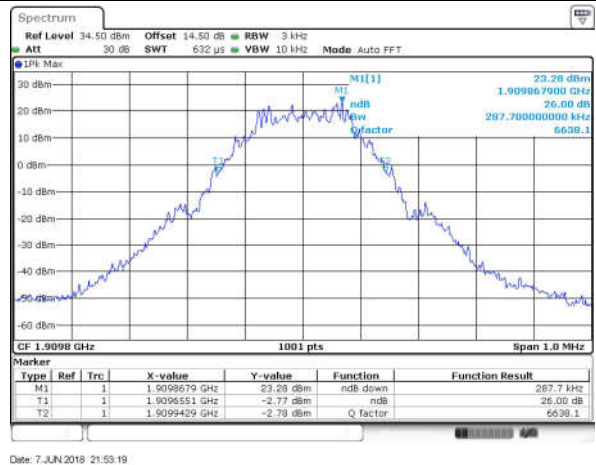
Middle Channel



Highest Channel



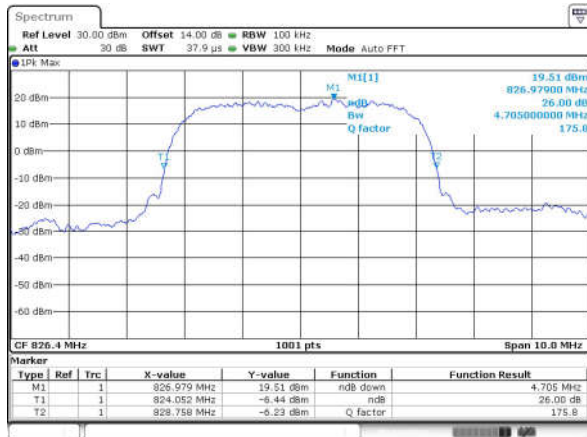
Highest Channel





WCDMA Band V (RMC 12.2Kbps)

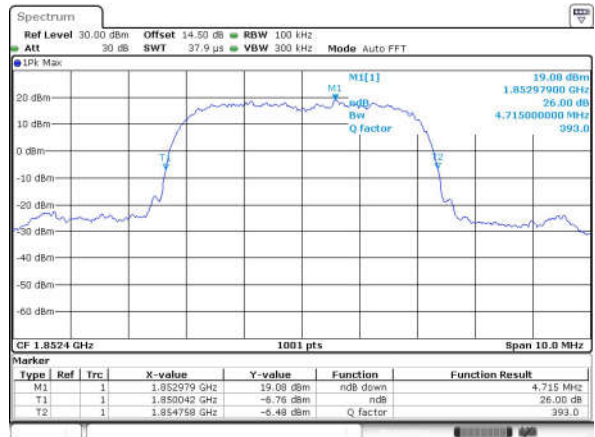
Lowest Channel



Date: 7 JUN 2018 23:35:48

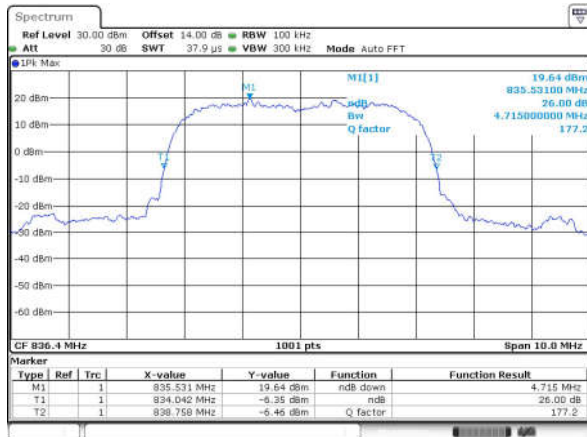
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



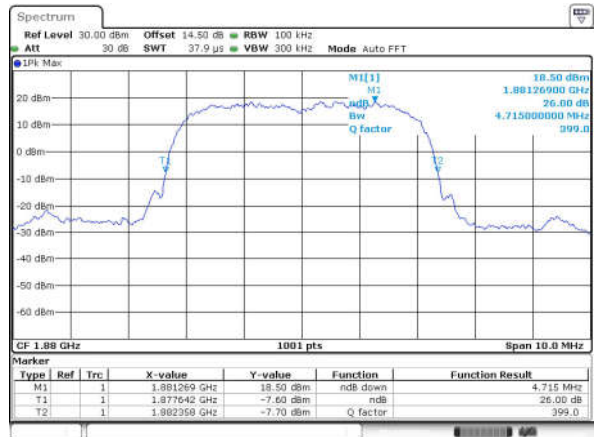
Date: 7 JUN 2018 22:46:48

Middle Channel



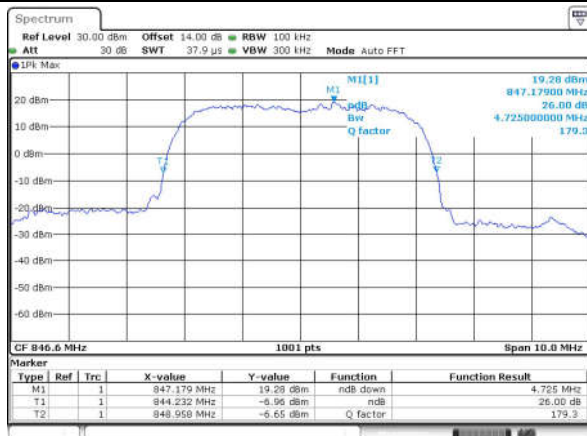
Date: 7 JUN 2018 23:37:07

Middle Channel



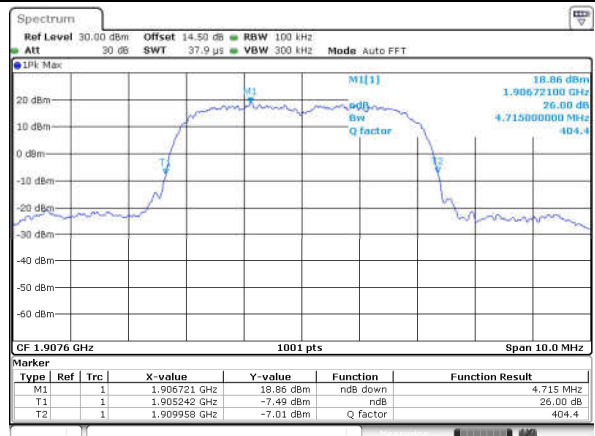
Date: 7 JUN 2018 22:53:18

Highest Channel



Date: 7 JUN 2018 23:37:45

Highest Channel

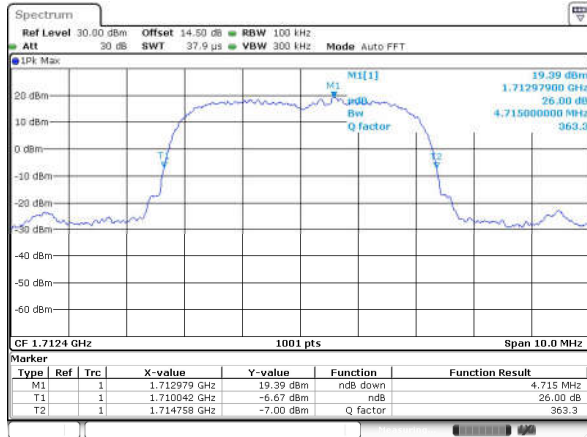


Date: 7 JUN 2018 22:54:27

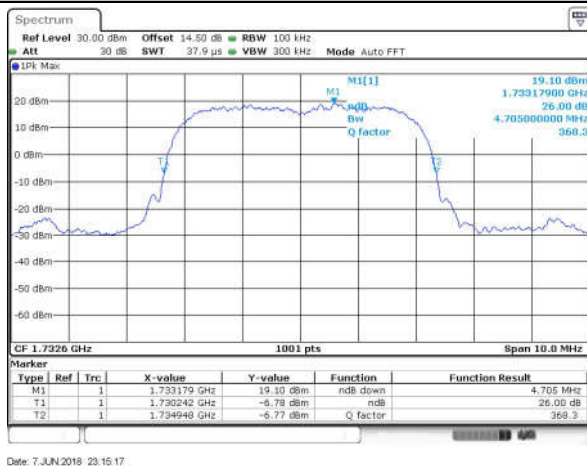


WCDMA Band IV (RMC 12.2Kbps)

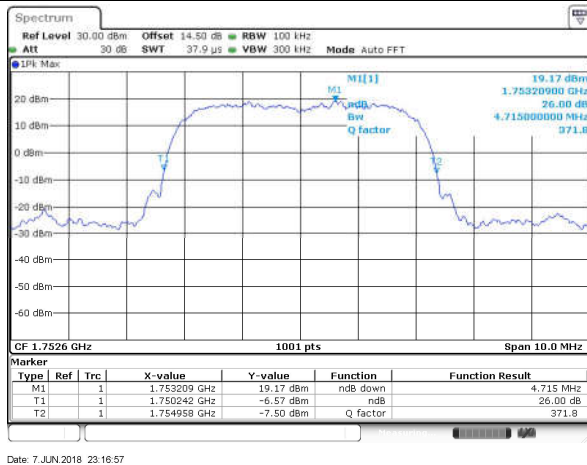
Lowest Channel



Middle Channel



Highest Channel



Occupied Bandwidth

Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.242	0.243
Middle CH	0.243	0.242
Highest CH	0.243	0.242

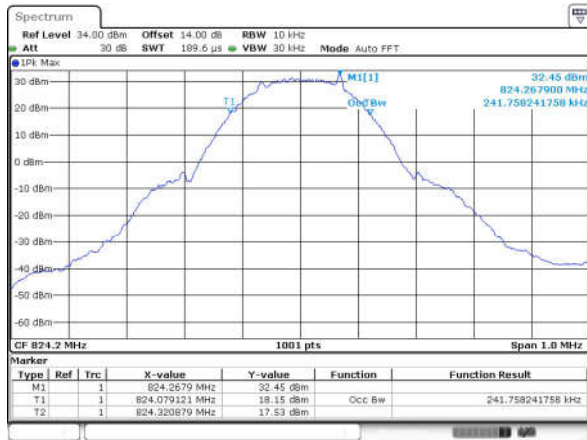
Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.245	0.236
Middle CH	0.242	0.237
Highest CH	0.244	0.234

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.16	4.17	4.17
Middle CH	4.17	4.16	4.17
Highest CH	4.17	4.16	4.16



GSM850 (GSM)

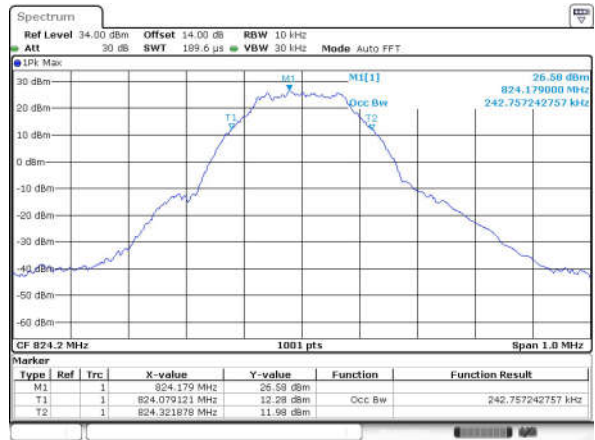
Lowest Channel



Date: 7 JUN 2018 20:14:48

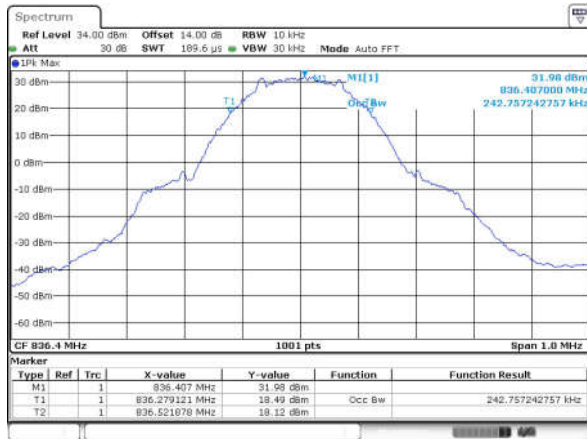
GSM850 (EDGE class 8)

Lowest Channel



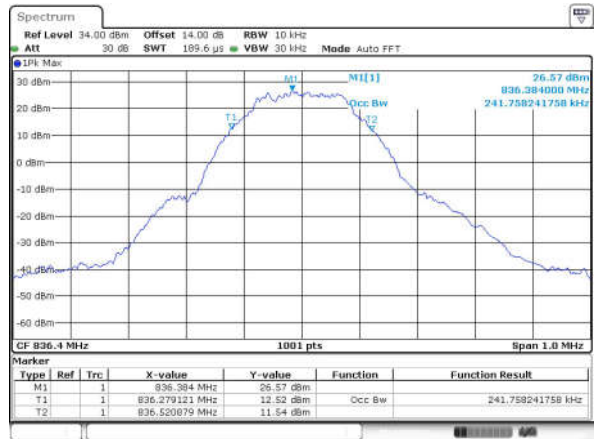
Date: 7 JUN 2018 22:25:26

Middle Channel



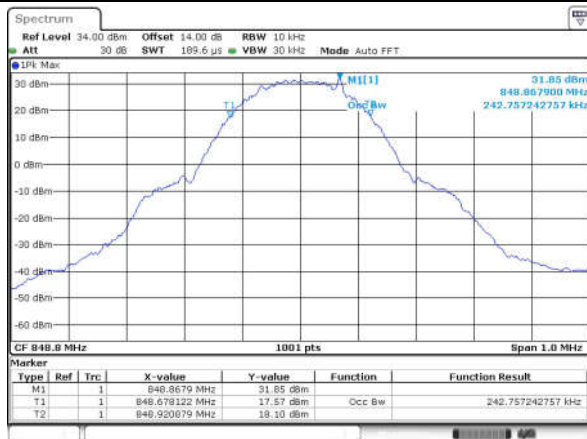
Date: 7 JUN 2018 20:13:38

Middle Channel



Date: 7 JUN 2018 22:30:51

Highest Channel



Date: 7 JUN 2018 20:14:15

Highest Channel

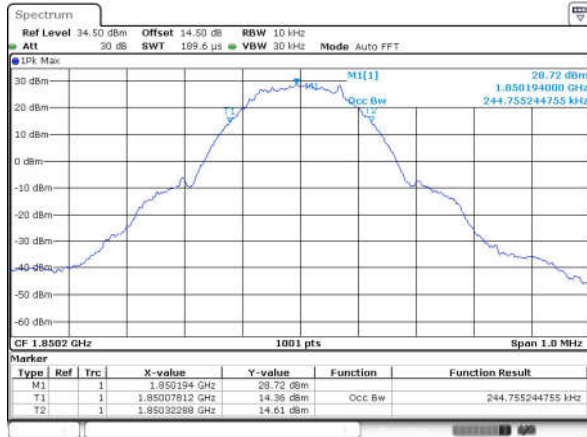


Date: 7 JUN 2018 22:31:26



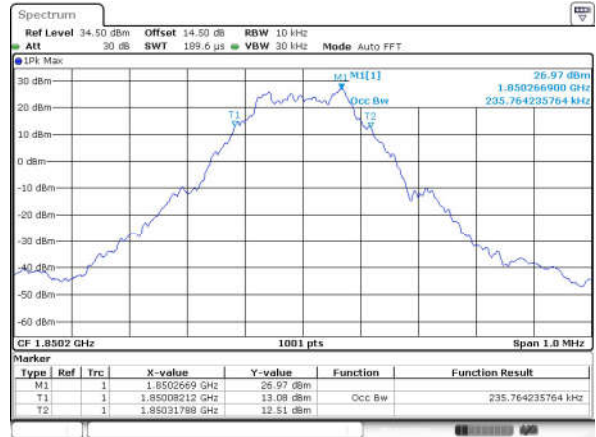
GSM1900 (GSM)

Lowest Channel

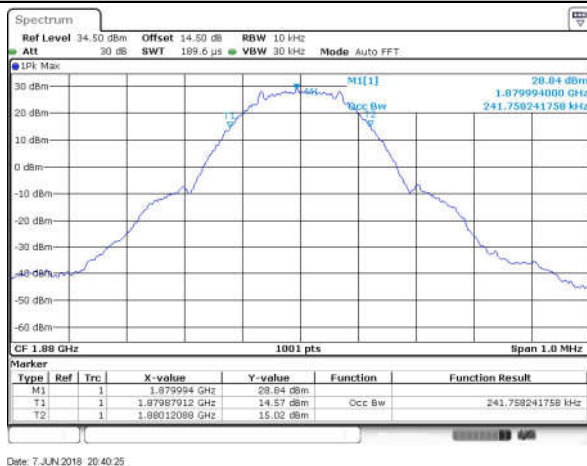


GSM1900 (EDGE class 8)

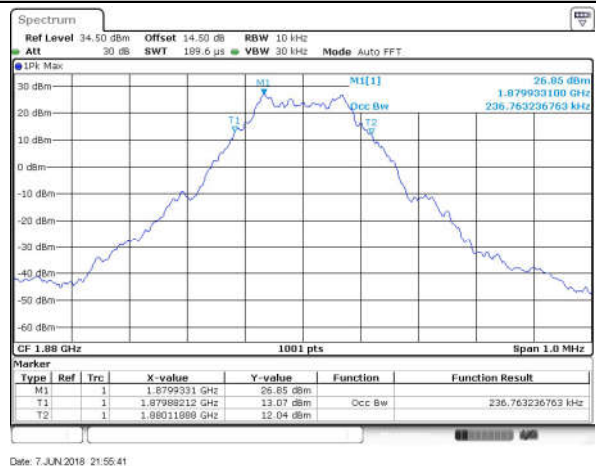
Lowest Channel



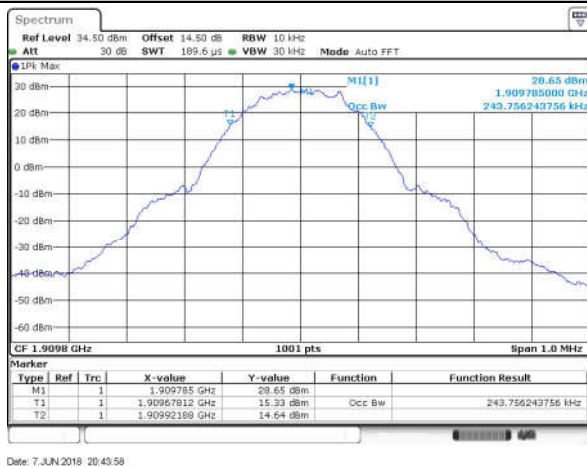
Middle Channel



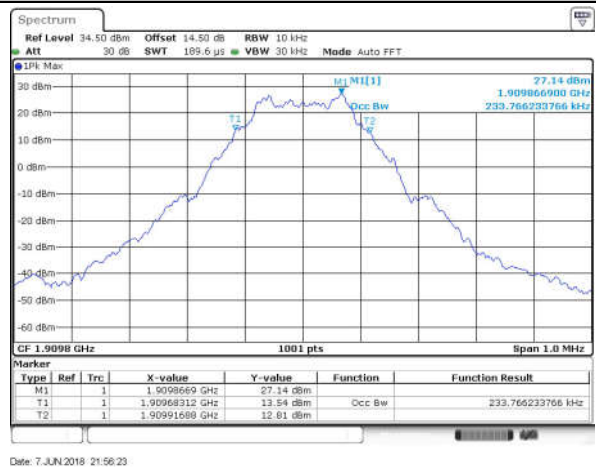
Middle Channel



Highest Channel



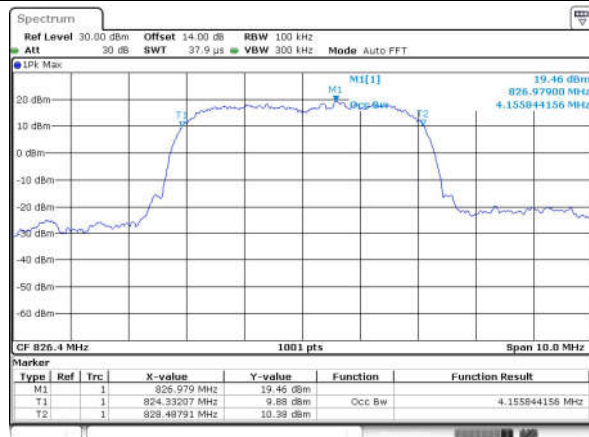
Highest Channel





WCDMA Band V (RMC 12.2Kbps)

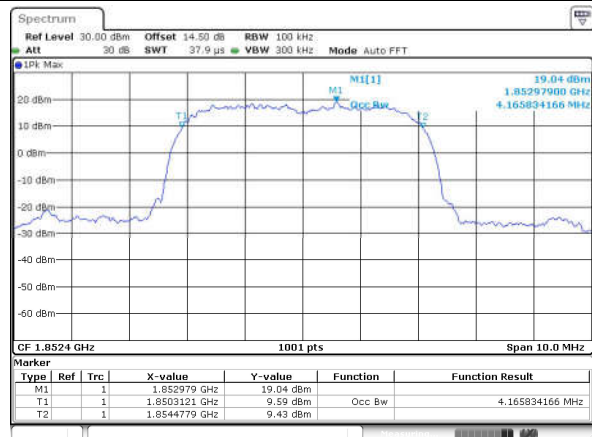
Lowest Channel



Date: 7 JUN 2018 23:38:27

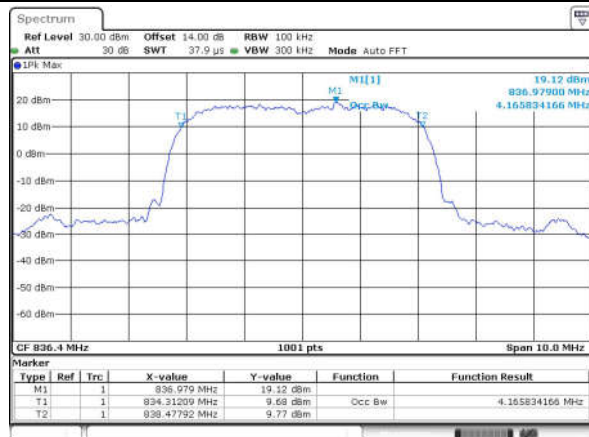
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



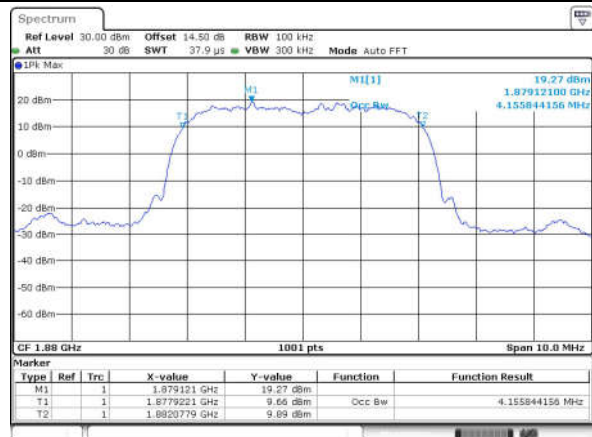
Date: 7 JUN 2018 22:55:04

Middle Channel



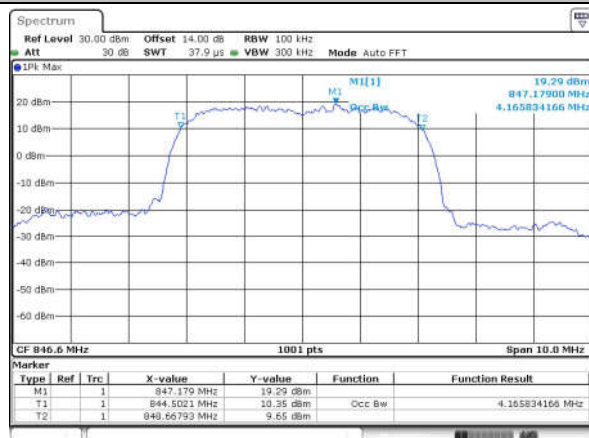
Date: 7 JUN 2018 23:39:28

Middle Channel



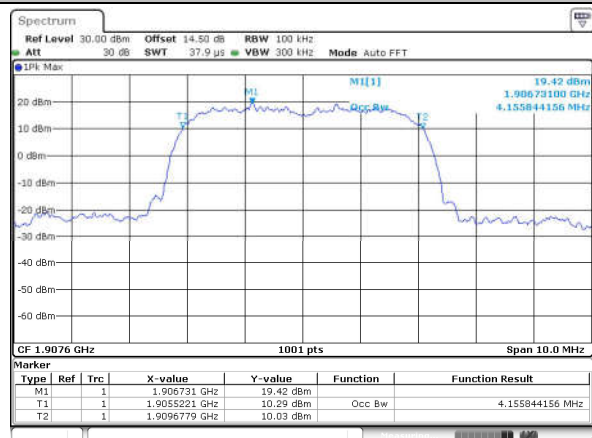
Date: 7 JUN 2018 22:55:48

Highest Channel



Date: 7 JUN 2018 23:40:04

Highest Channel

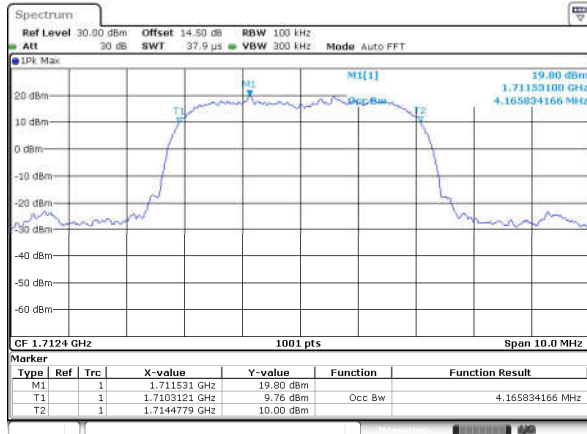


Date: 7 JUN 2018 22:56:24

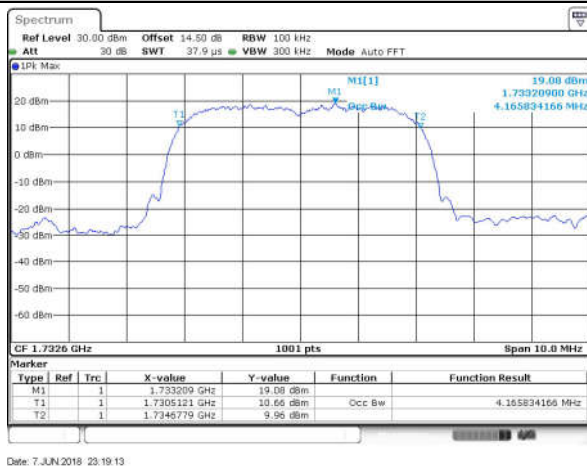


WCDMA Band IV (RMC 12.2Kbps)

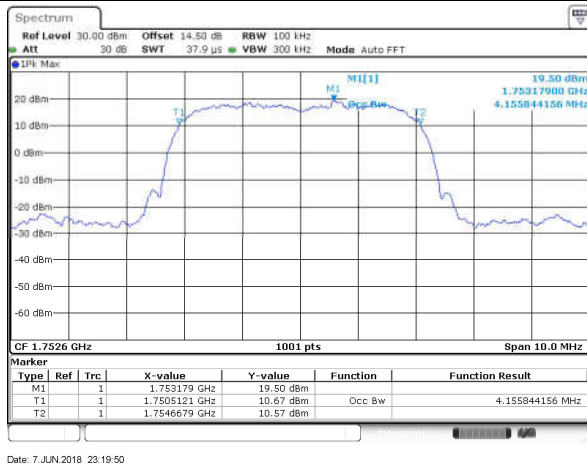
Lowest Channel

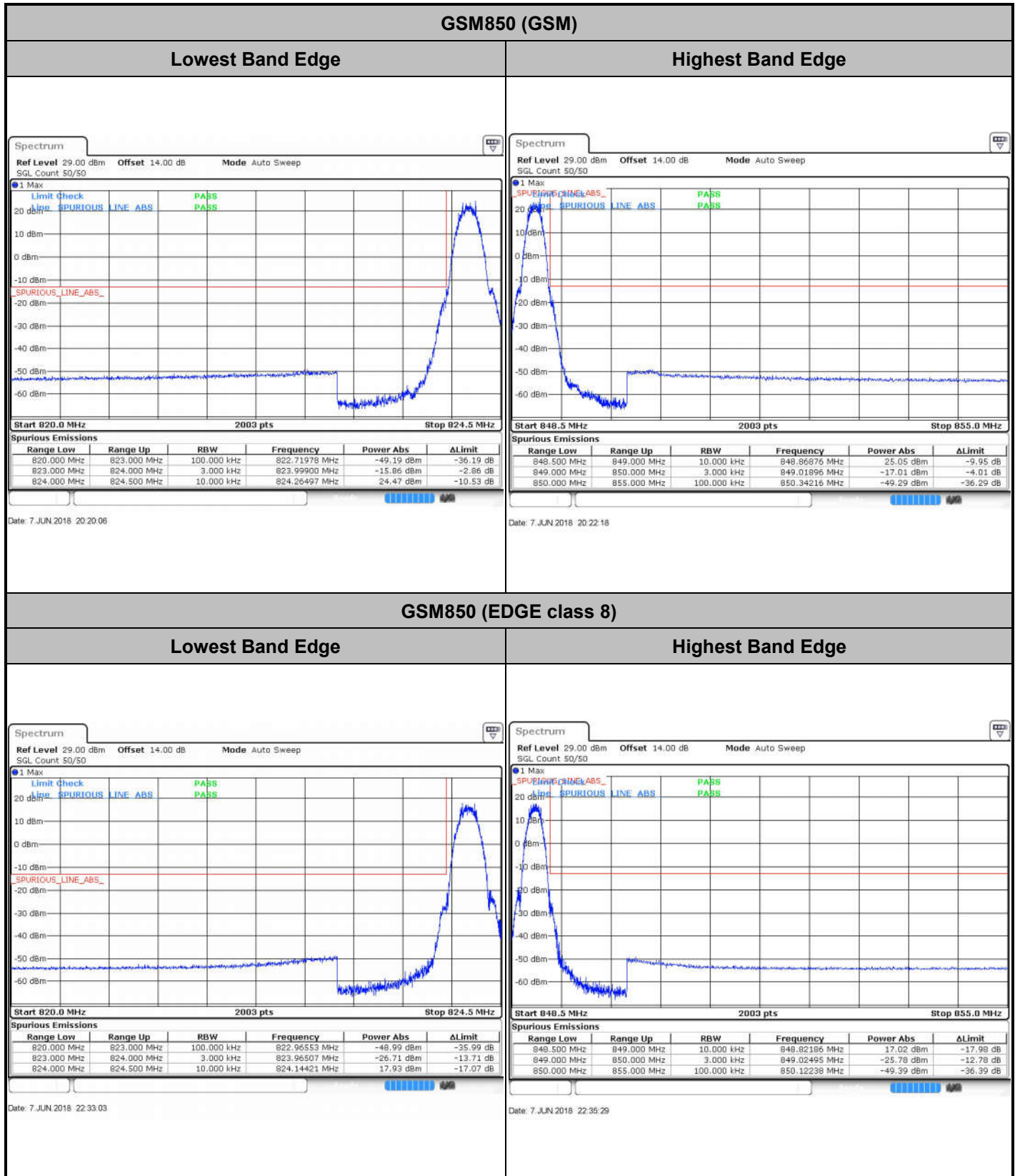


Middle Channel



Highest Channel

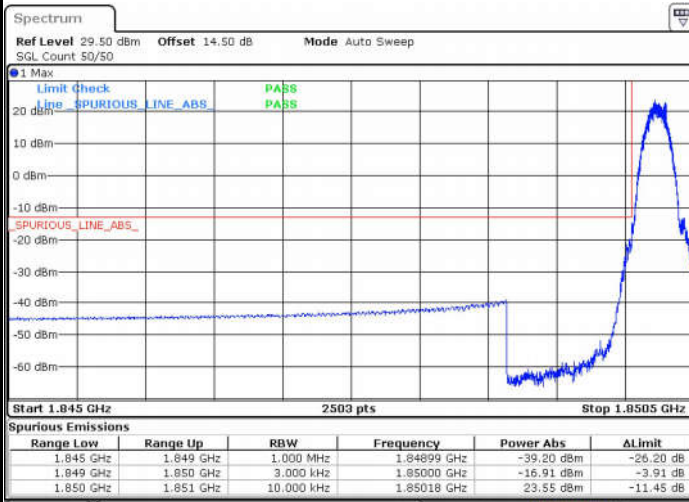


**Conducted Band Edge**

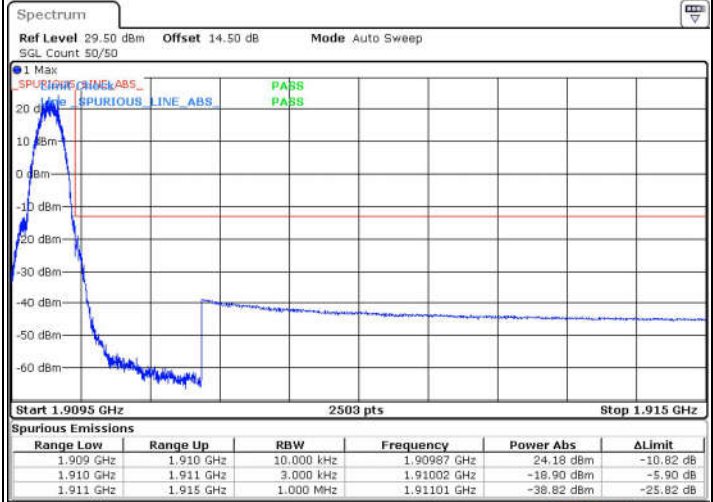


GSM1900 (GSM)

Lowest Band Edge

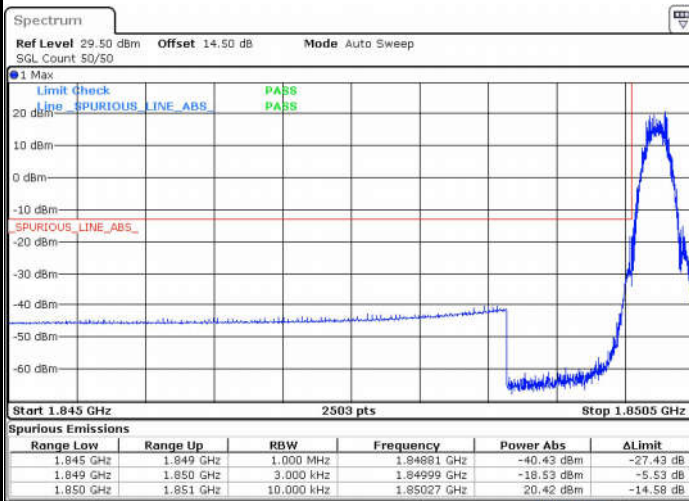


Highest Band Edge

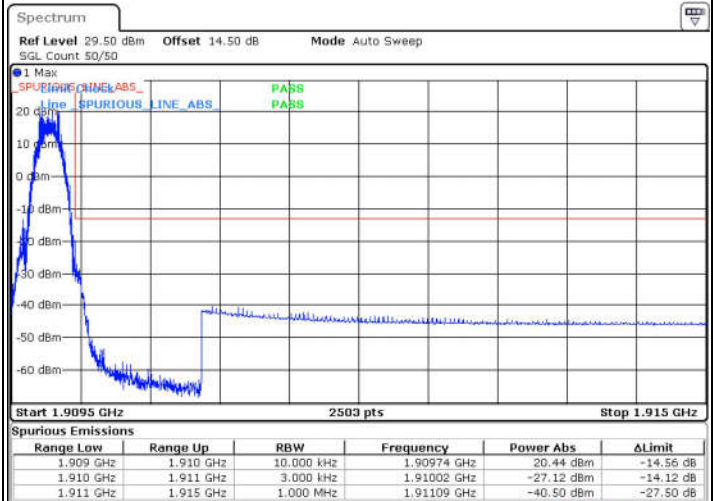


GSM1900 (EDGE class 8)

Lowest Band Edge



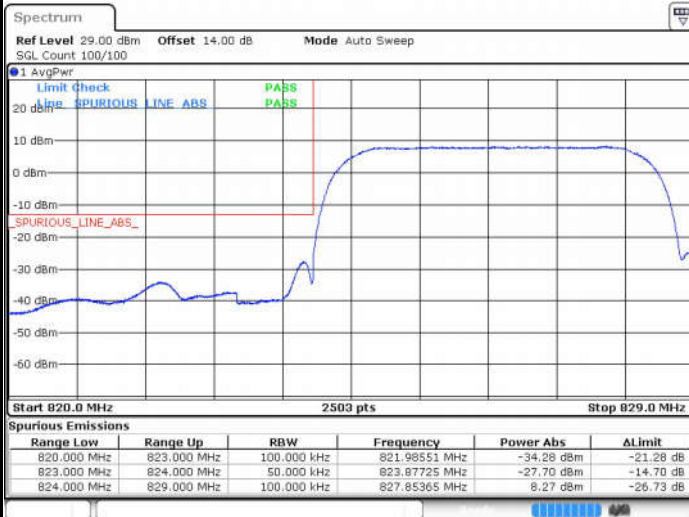
Highest Band Edge





WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

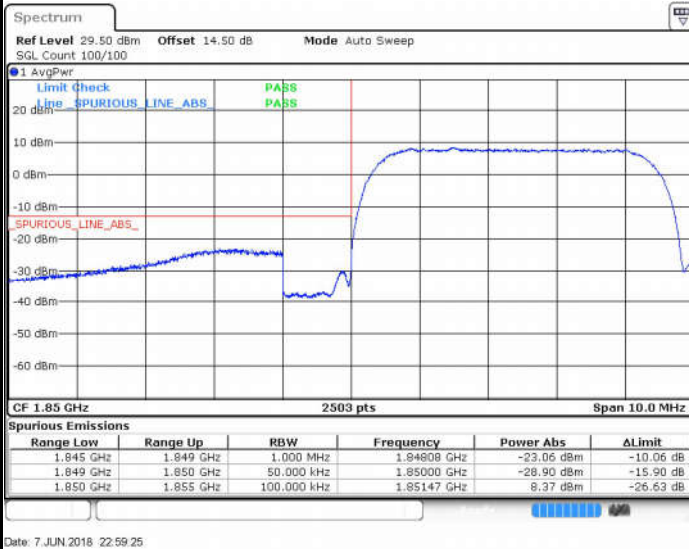


Highest Band Edge

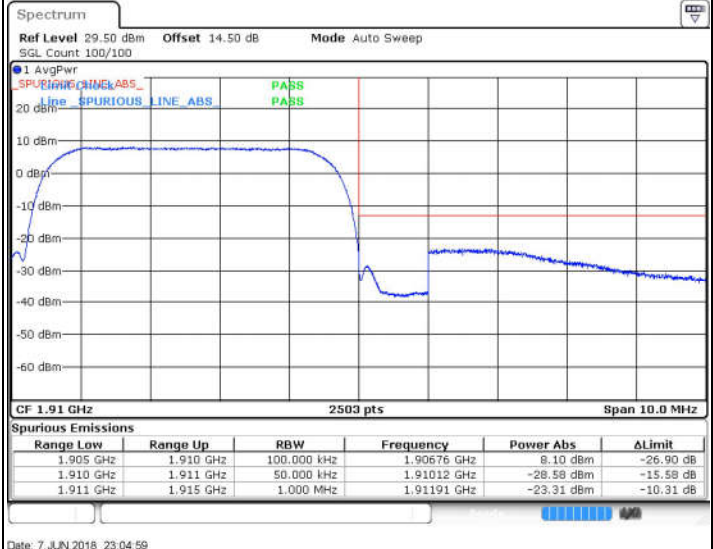


WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



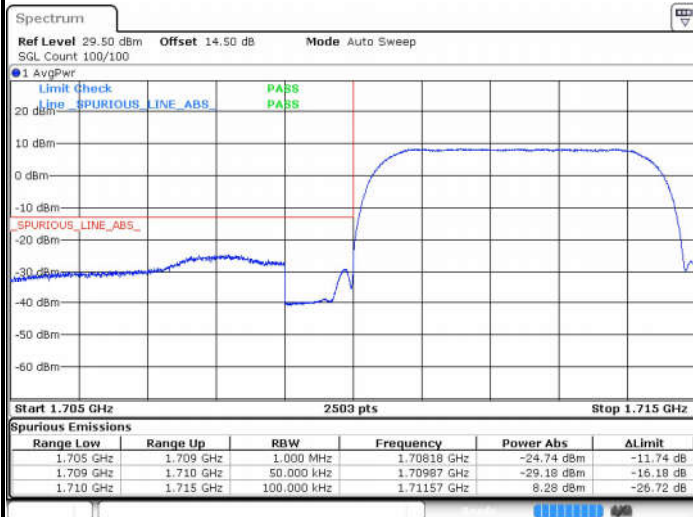
Highest Band Edge



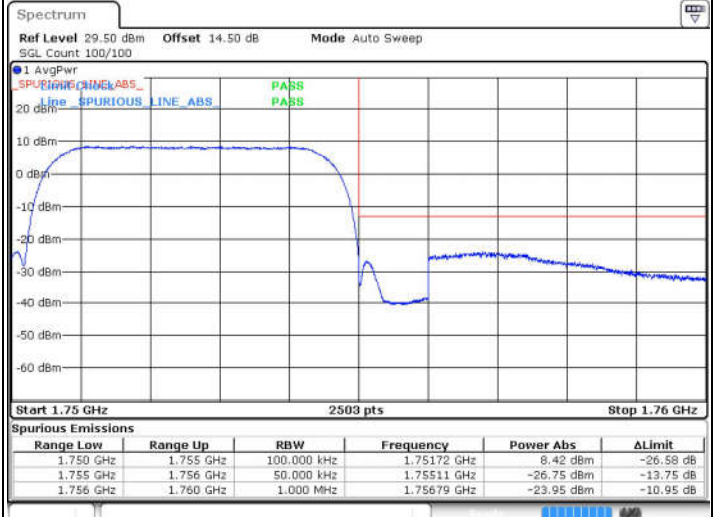


WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge

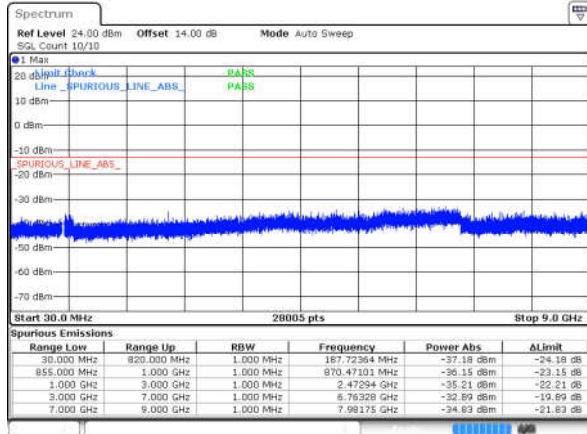




Conducted Spurious Emission

GSM850 (GSM)

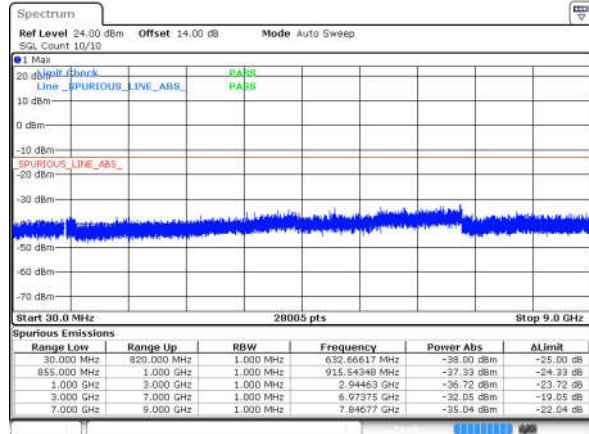
Lowest Channel



Date: 7 JUN 2018 20:24:47

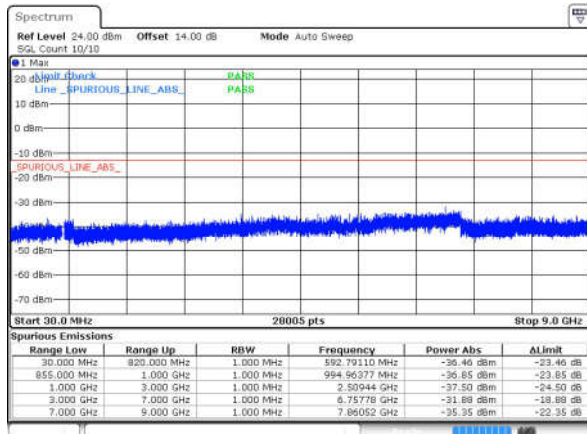
GSM850 (EDGE class 8)

Lowest Channel



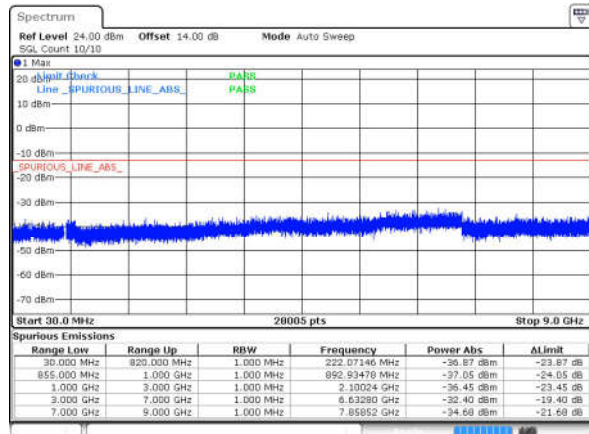
Date: 7 JUN 2018 21:27:36

Middle Channel



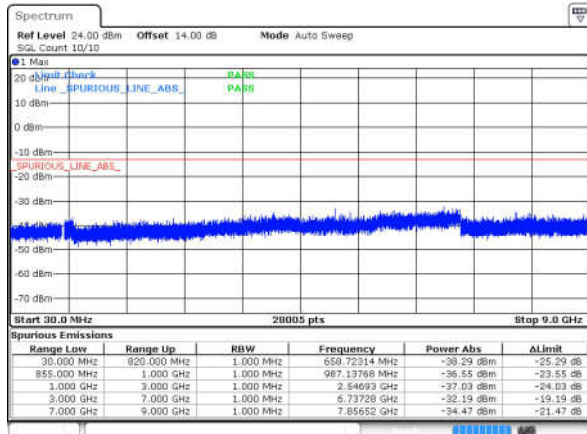
Date: 7 JUN 2018 20:26:28

Middle Channel



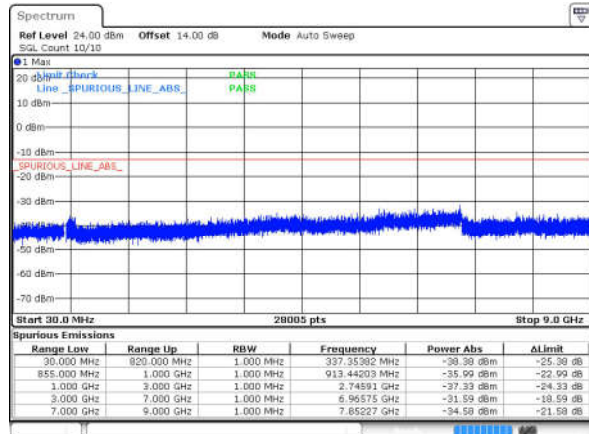
Date: 7 JUN 2018 21:31:11

Highest Channel



Date: 7 JUN 2018 20:29:54

Highest Channel

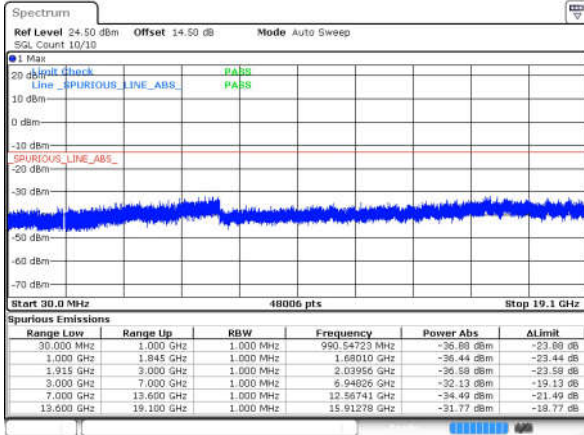


Date: 7 JUN 2018 21:32:52



GSM1900 (GSM)

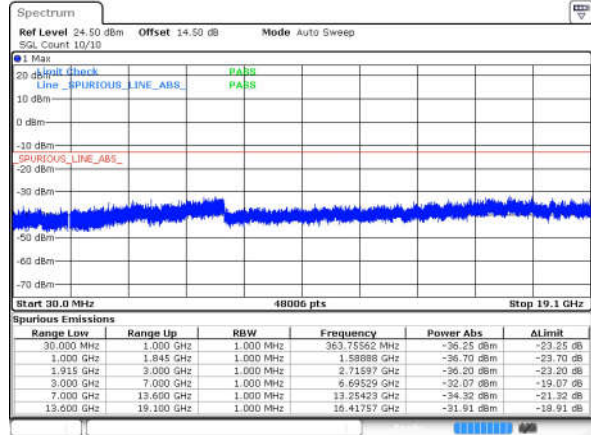
Lowest Channel



Date: 7 JUN 2018 20:59:16

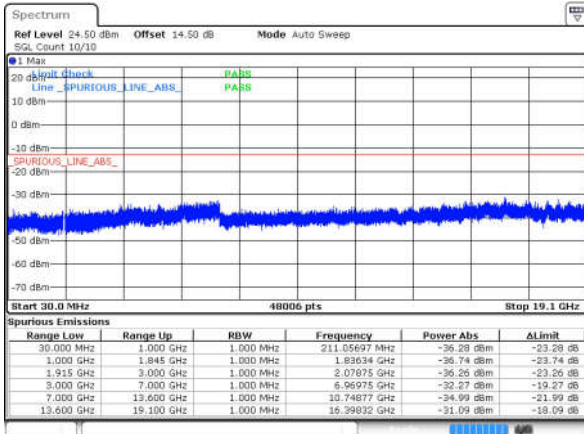
GSM1900 (EDGE class 8)

Lowest Channel



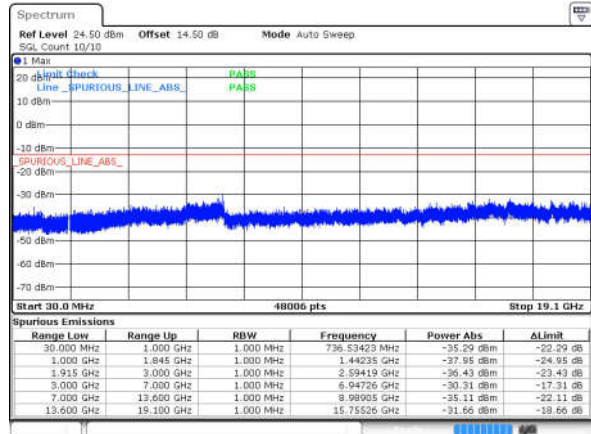
Date: 7 JUN 2018 22:01:19

Middle Channel



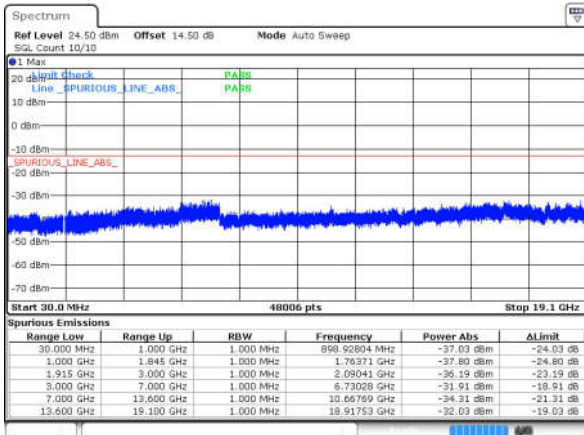
Date: 7 JUN 2018 21:02:26

Middle Channel



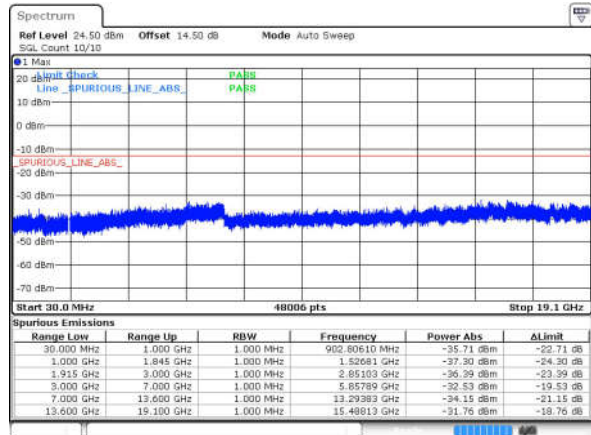
Date: 7 JUN 2018 22:03:11

Highest Channel



Date: 7 JUN 2018 21:03:52

Highest Channel

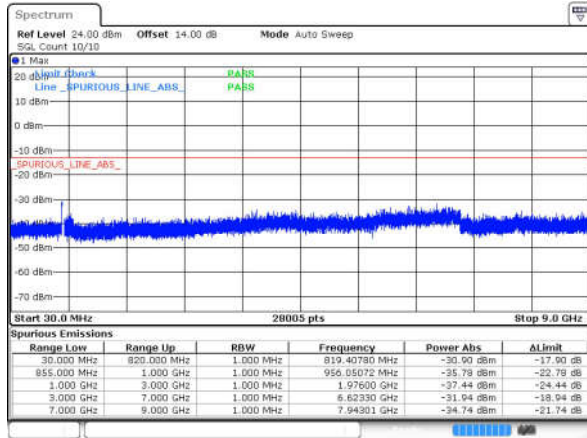


Date: 7 JUN 2018 22:04:43



WCDMA Band V (RMC 12.2Kbps)

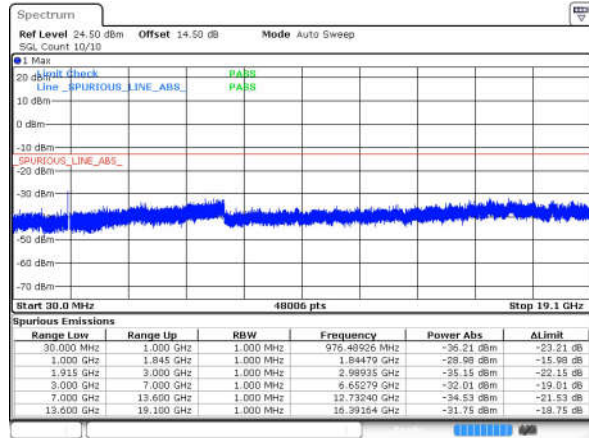
Lowest Channel



Date: 7 JUN 2018 23:52:51

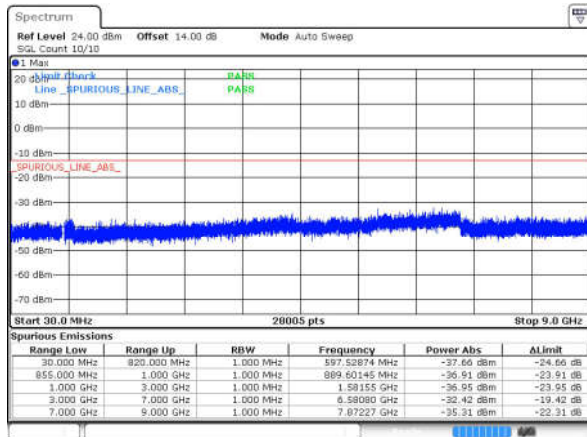
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



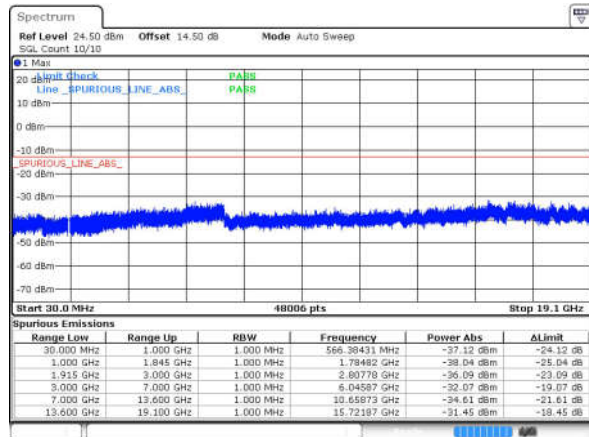
Date: 7 JUN 2018 23:06:24

Middle Channel



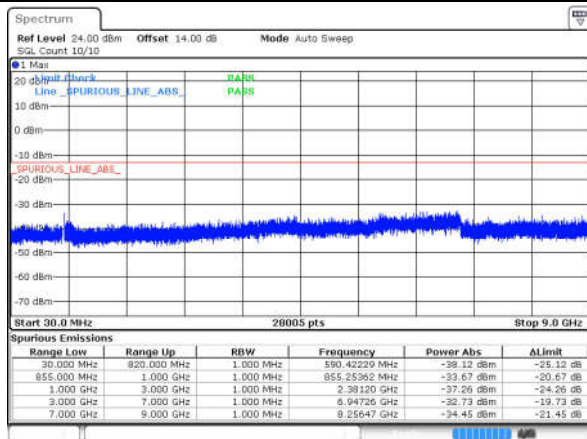
Date: 7 JUN 2018 23:54:15

Middle Channel



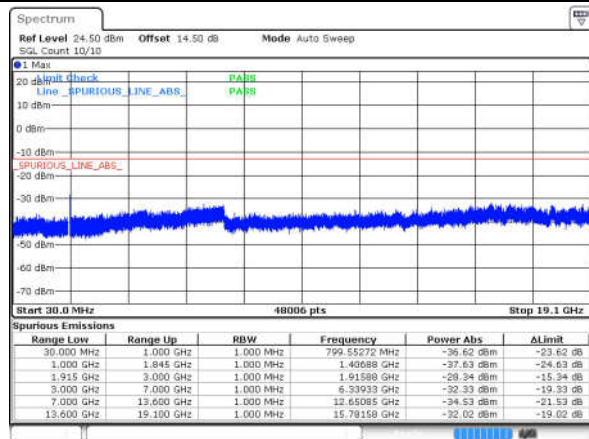
Date: 7 JUN 2018 23:07:47

Highest Channel

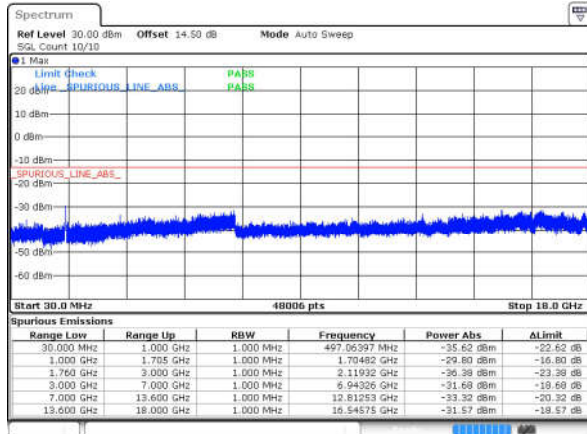


Date: 7 JUN 2018 23:55:42

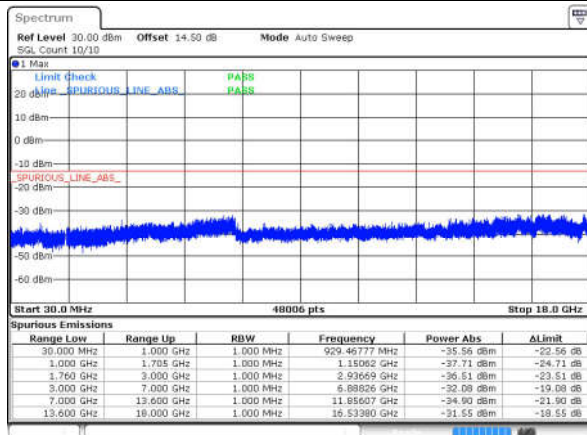
Highest Channel



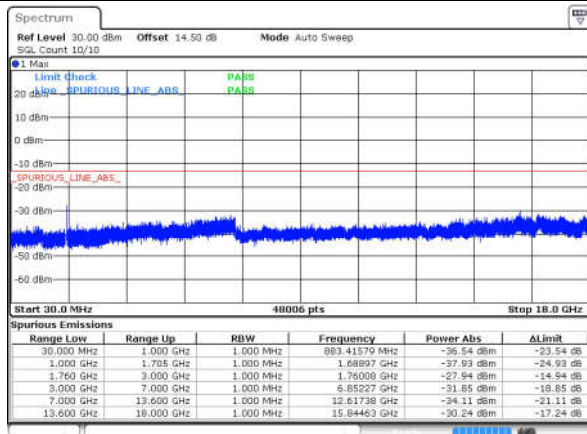
Date: 7 JUN 2018 23:06:55

**WCDMA Band IV (RMC 12.2Kbps)****Lowest Channel**

Date: 7 JUN 2018 23:30:07

Middle Channel

Date: 7 JUN 2018 23:31:59

Highest Channel

Date: 7 JUN 2018 23:33:23

**Frequency Stability**

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0053	0.0045	PASS
40	Normal Voltage	0.0023	0.0173	
30	Normal Voltage	0.0020	0.0061	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0006	0.0045	
0	Normal Voltage	0.0027	0.0105	
-10	Normal Voltage	0.0014	0.0065	
-20	Normal Voltage	0.0085	0.0029	
-30	Normal Voltage	0.0047	0.0005	
20	Maximum Voltage	0.0010	0.0281	
20	Normal Voltage	0.0008	0.0000	
20	Battery End Point	0.0117	0.0022	

Note: Normal Voltage = 3.85V. ; Battery End Point (BEP) = 4.4 V. ; Maximum Voltage =3.5 V



Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0044	0.0008	PASS
40	Normal Voltage	0.0030	0.0057	
30	Normal Voltage	0.0036	0.0036	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0190	0.0007	
0	Normal Voltage	0.0197	0.0042	
-10	Normal Voltage	0.0210	0.0013	
-20	Normal Voltage	0.0223	0.0010	
-30	Normal Voltage	0.0123	0.0012	
20	Maximum Voltage	0.0052	0.0020	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0064	0.0052	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 4.4 V. ; Maximum Voltage =3.5 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0108	PASS
40	Normal Voltage	0.0087	
30	Normal Voltage	0.0048	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0050	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0072	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0038	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0020	

Note: Normal Voltage =3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.4 V



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0030	PASS
40	Normal Voltage	0.0055	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0111	

Note:

1. Normal Voltage =3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0059	PASS
40	Normal Voltage	0.0031	
30	Normal Voltage	0.0038	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0043	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0068	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Conducted Test

Radiated Spurious Emission

GSM850 (GSM) for Adapter									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-69.40	-13	-56.40	-74.96	-73.81	2.84	9.40	H
	2509.2	-54.75	-13	-41.75	-65.17	-59.50	3.7	10.60	H
	3345.6	-62.90	-13	-49.90	-77.66	-68.98	4.37	12.60	H
	1672.8	-73.10	-13	-60.10	-77.81	-77.51	2.84	9.40	V
	2509.2	-64.71	-13	-51.71	-74.54	-69.46	3.70	10.60	V
	3345.6	-67.03	-13	-54.03	-80.60	-73.11	4.37	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM850 (EDGE class 8) for Adapter									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-68.33	-13	-55.33	-73.89	-72.74	2.84	9.40	H
	2509.2	-61.99	-13	-48.99	-72.41	-66.74	3.7	10.60	H
	3345.6	-65.75	-13	-52.75	-80.51	-71.83	4.37	12.60	H
	1672.8	-73.14	-13	-60.14	-77.85	-77.55	2.84	9.40	V
	2509.2	-67.55	-13	-54.55	-77.38	-72.30	3.70	10.60	V
	3345.6	-67.16	-13	-54.16	-80.73	-73.24	4.37	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



GSM1900 (GSM) for Adapter									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-55.66	-13	-42.66	-75.27	-63.41	4.85	12.60	H
	5640	-39.81	-13	-26.81	-63.22	-47.33	5.58	13.10	H
	7520	-56.52	-13	-43.52	-80.04	-61.26	6.56	11.30	H
	3760	-53.43	-13	-40.43	-73.82	-61.18	4.85	12.60	V
	5640	-37.11	-13	-24.11	-62.39	-44.63	5.58	13.10	V
	7520	-55.85	-13	-42.85	-79.39	-60.59	6.56	11.30	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM1900 (EDGE class 8) for Adapter									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-53.47	-13	-40.47	-73.08	-61.22	4.85	12.60	H
	5640	-35.49	-13	-22.49	-60.70	-43.01	5.58	13.10	H
	7520	-57.14	-13	-44.14	-80.66	-61.88	6.56	11.30	H
	3760	-54.16	-13	-41.16	-74.55	-61.91	4.85	12.60	V
	5640	-42.90	-13	-29.90	-66.95	-50.42	5.58	13.10	V
	7520	-56.77	-13	-43.77	-80.31	-61.51	6.56	11.30	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM1900 (EDGE class 8) for wireless charging									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-52.30	-13	-39.30	-71.91	-60.05	4.85	12.60	H
	5640	-44.44	-13	-31.44	-67.89	-51.96	5.58	13.10	H
	7520	-57.96	-13	-44.96	-81.48	-62.70	6.56	11.30	H
	3760	-55.97	-13	-42.97	-76.36	-63.72	4.85	12.60	V
	5640	-37.98	-13	-24.98	-62.93	-45.50	5.58	13.10	V
	7520	-58.18	-13	-45.18	-81.72	-62.92	6.56	11.30	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



WCDMA Band V(RMC 12.2Kbps) for Adapter									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-72.57	-13	-59.57	-78.13	-76.98	2.84	9.40	H
	2509.2	-67.54	-13	-54.54	-77.96	-72.29	3.7	10.60	H
	3345.6	-65.96	-13	-52.96	-80.72	-72.04	4.37	12.60	H
	1672.8	-73.41	-13	-60.41	-78.12	-77.82	2.84	9.40	V
	2509.2	-69.07	-13	-56.07	-78.90	-73.82	3.70	10.60	V
	3345.6	-67.14	-13	-54.14	-80.71	-73.22	4.37	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band II(RMC 12.2Kbps) for Adapter									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-58.39	-13	-45.39	-78.00	-66.14	4.85	12.60	H
	5640	-52.33	-13	-39.33	-75.78	-59.85	5.58	13.10	H
	7520	-56.89	-13	-43.89	-80.41	-61.63	6.56	11.30	H
	3760	-57.87	-13	-44.87	-78.26	-65.62	4.85	12.60	V
	5640	-50.02	-13	-37.02	-74.07	-57.54	5.58	13.10	V
	7520	-56.56	-13	-43.56	-80.1	-61.30	6.56	11.30	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band IV(RMC 12.2Kbps) for Adapter									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465.2	-58.19	-13	-45.19	-77.52	-66.42	4.37	12.60	H
	5197.8	-55.27	-13	-42.27	-79.43	-63.03	4.94	12.70	H
	6930.4	-58.29	-13	-45.29	-82.20	-63.67	6.32	11.70	H
	3465.2	-54.90	-13	-41.90	-70.98	-63.13	4.37	12.60	V
	5197.8	-56.12	-13	-43.12	-75.63	-63.88	4.94	12.70	V
	6930.4	-57.15	-13	-44.15	-81.06	-62.53	6.32	11.70	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.