

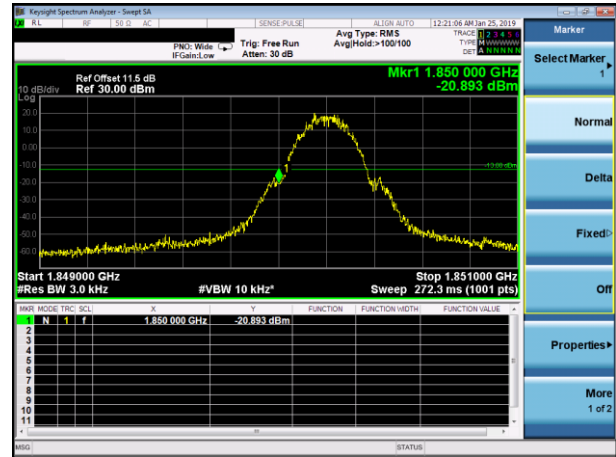
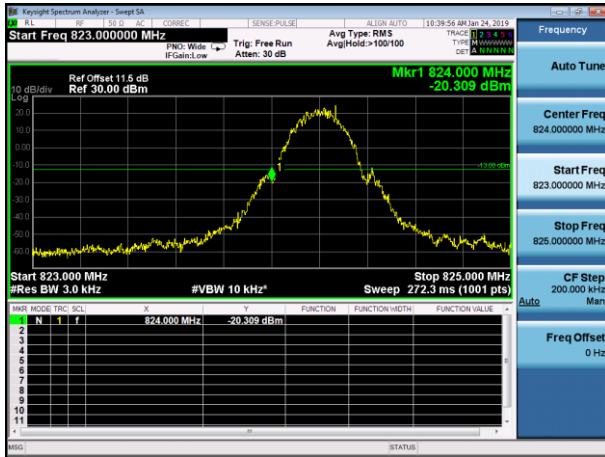
Test plot For

(GSM850)

(GSM1900)

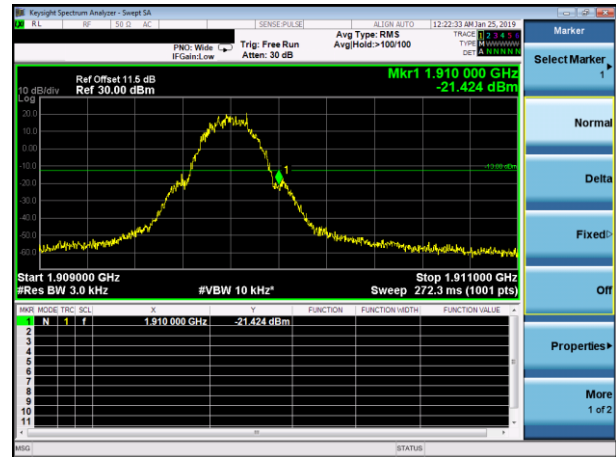
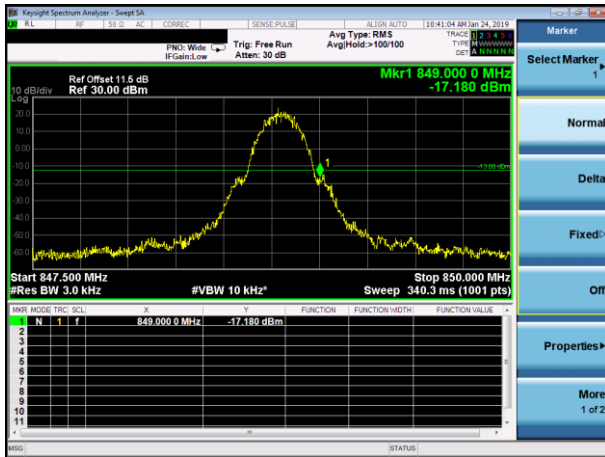
Conducted Band Edge plot on channel 128

Conducted Band Edge plot on channel 512



Conducted Band Edge plot on channel 251

Conducted Band Edge plot on channel 810



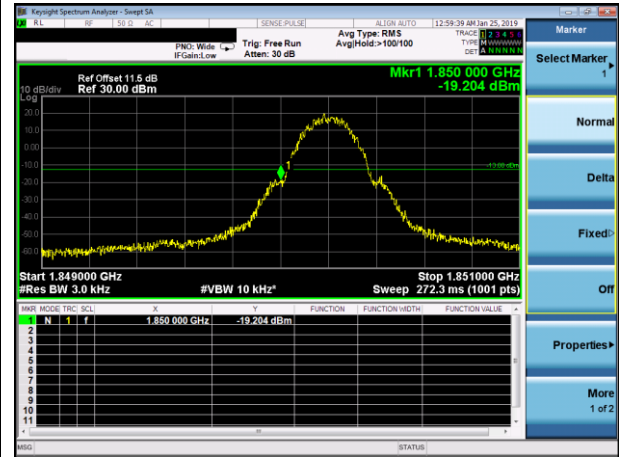
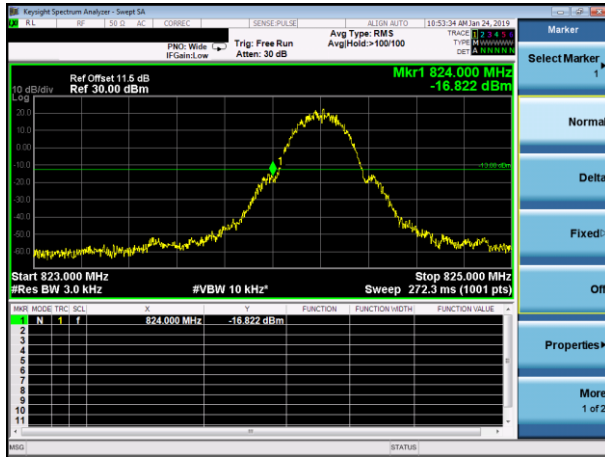
Test plot For

(GPRS850)

(GPRS1900)

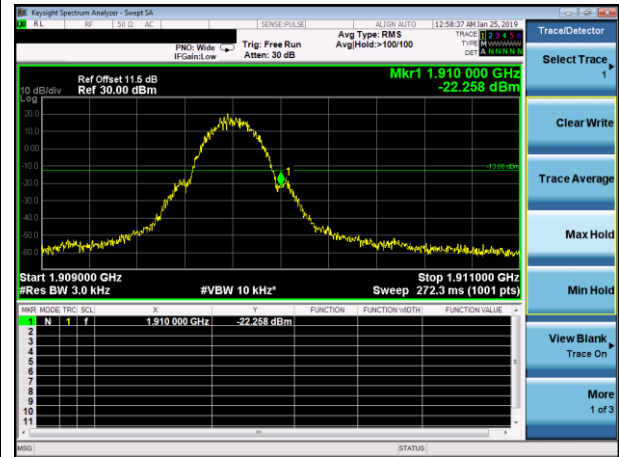
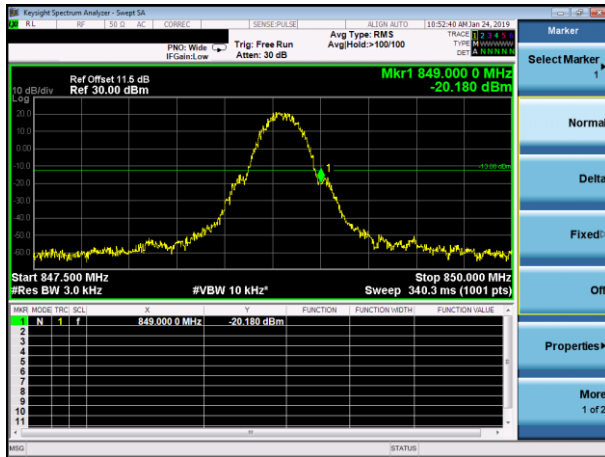
Conducted Band Edge plot on channel 128

Conducted Band Edge plot on channel 512



Conducted Band Edge plot on channel 251

Conducted Band Edge plot on channel 810



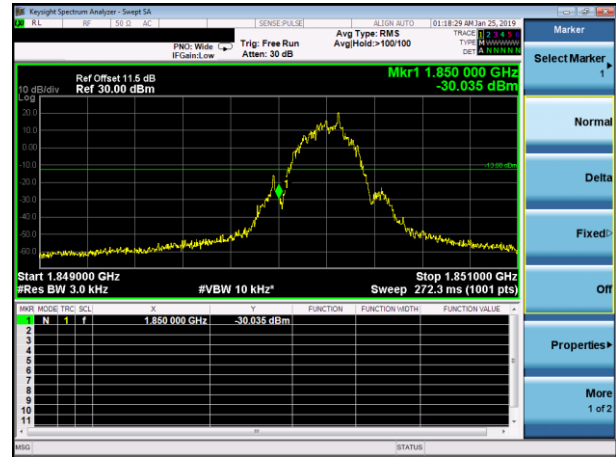
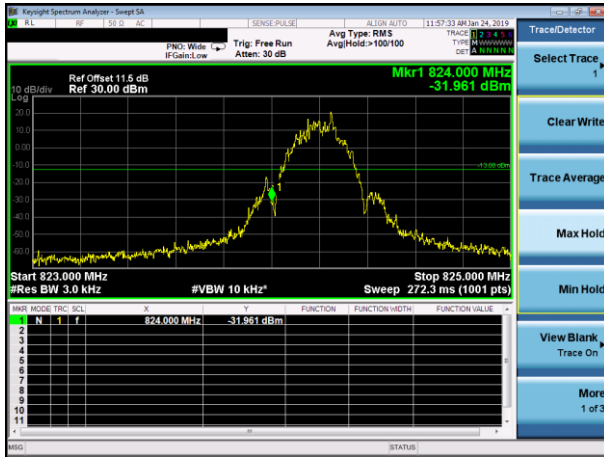
Test plot For

(EGPRS850)

(EGPRS1900)

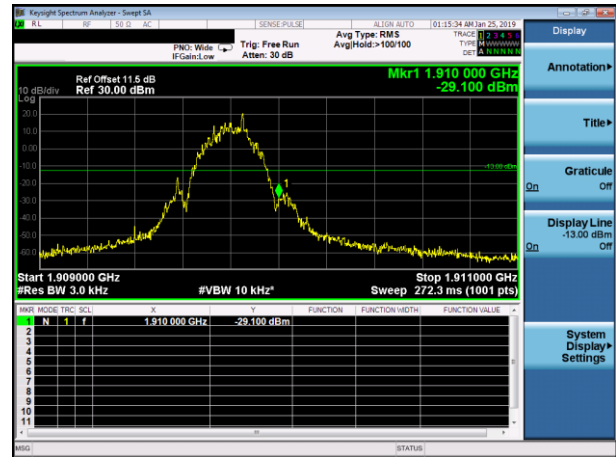
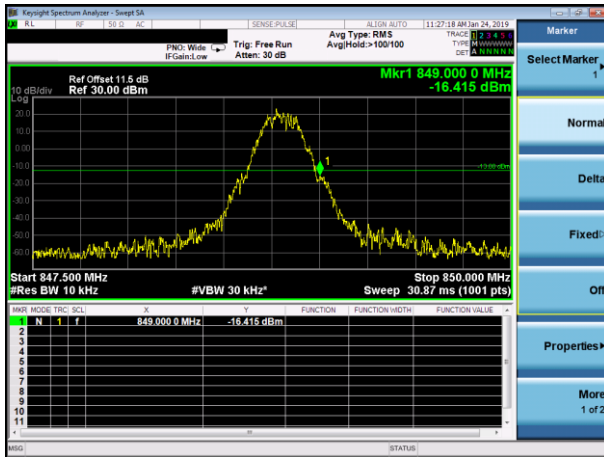
Conducted Band Edge plot on channel 128

Conducted Band Edge plot on channel 512



Conducted Band Edge plot on channel 251

Conducted Band Edge plot on channel 810



7.8 CONDUCTED SPURIOUS EMISSION AT ANTENNA TERMINAL

7.8.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and Part 24.238(a) and FCC KDB 971168 D01 Section6.0

7.8.2 Conformance Limit

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.

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.0.
The EUT was connected to Spectrum Analyzer and Base Station via power divider.
The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
The middle channel for the highest RF power within the transmitting frequency was measured.
The conducted spurious emission for the whole frequency range was taken.
The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13\text{dBm}$.

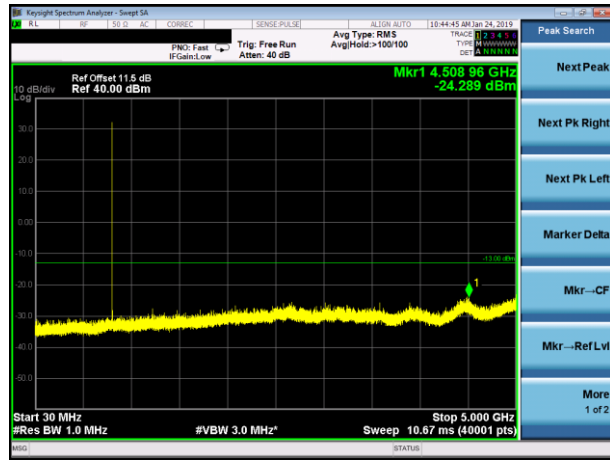
7.8.6 Test Results

EUT:	Industrial PDA	Model No.:	ST907
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850 GSM/GPRS/EGPRS 1900	Test By:	Allen Liu
Results: PASS			

Test Plot

GSM850

Conducted Emission Transmitting Mode CH 128
30MHz – 5GHz

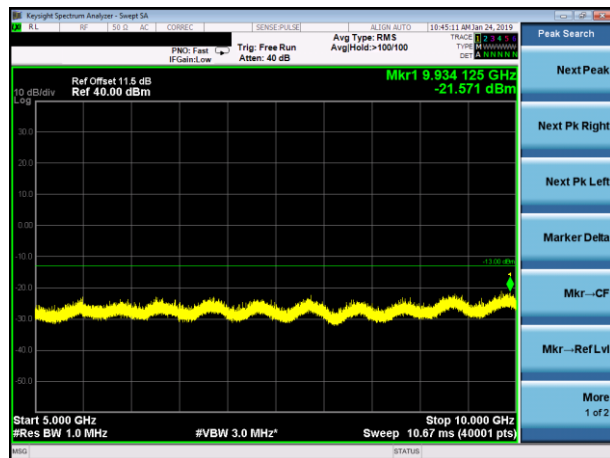


GSM850

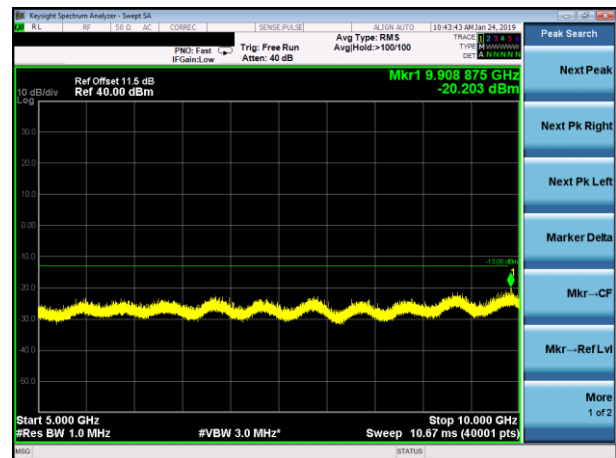
Conducted Emission Transmitting Mode CH 190
30MHz – 5GHz



Conducted Emission Transmitting Mode CH 128
5GHz – 10GHz



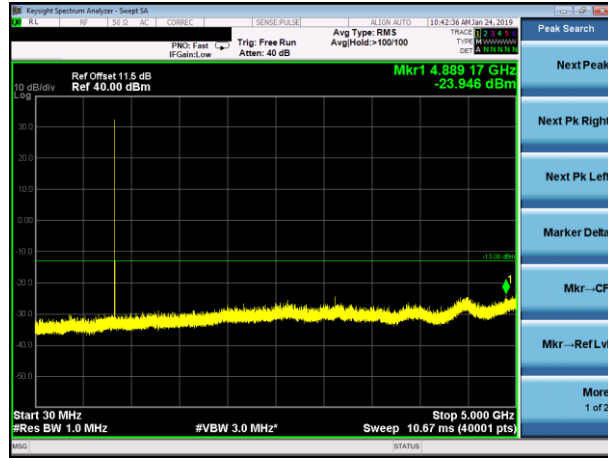
Conducted Emission Transmitting Mode CH 190
5GHz – 10GHz



Test Plot

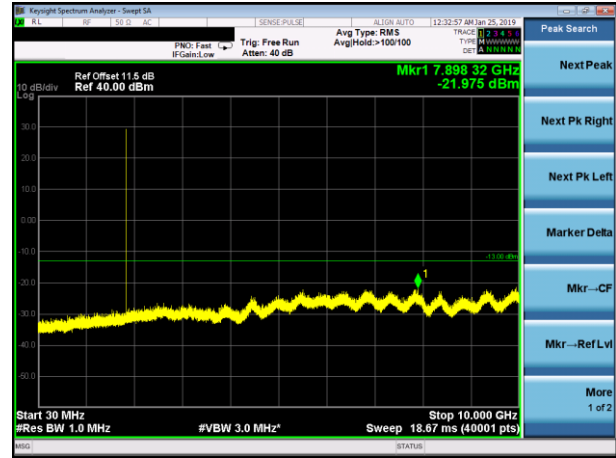
GSM850

Conducted Emission Transmitting Mode CH 251
30MHz – 5GHz

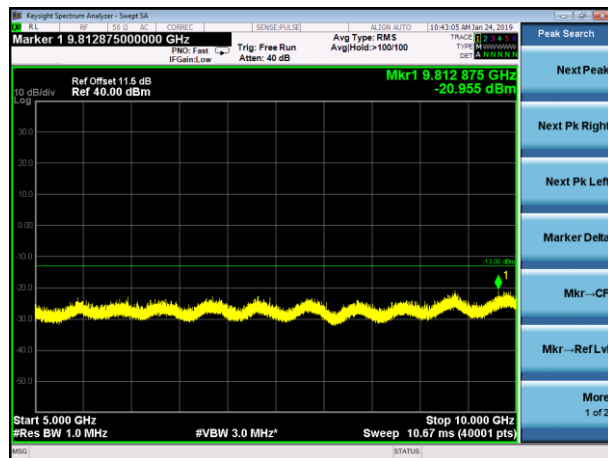


GSM1900

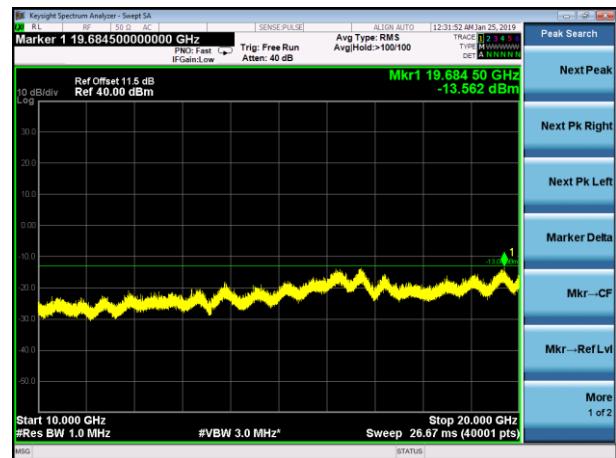
Conducted Emission Transmitting Mode CH 512
30MHz – 10GHz



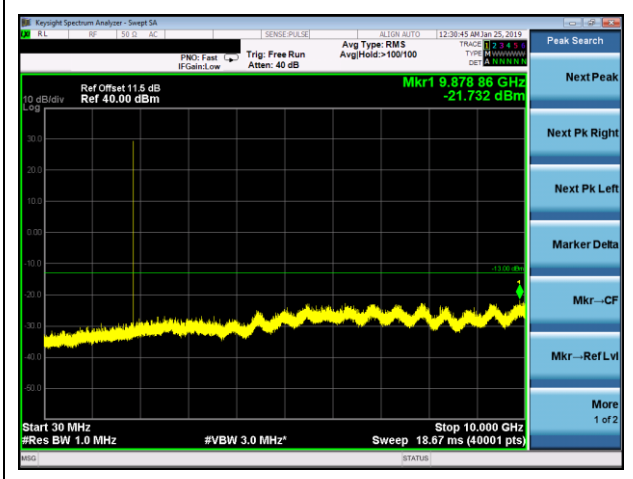
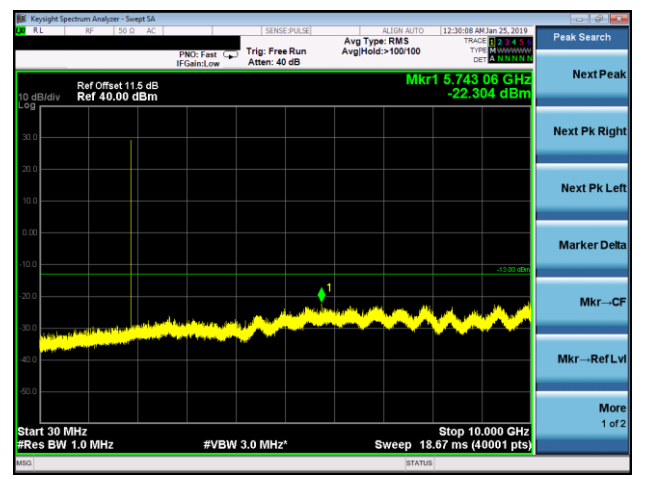
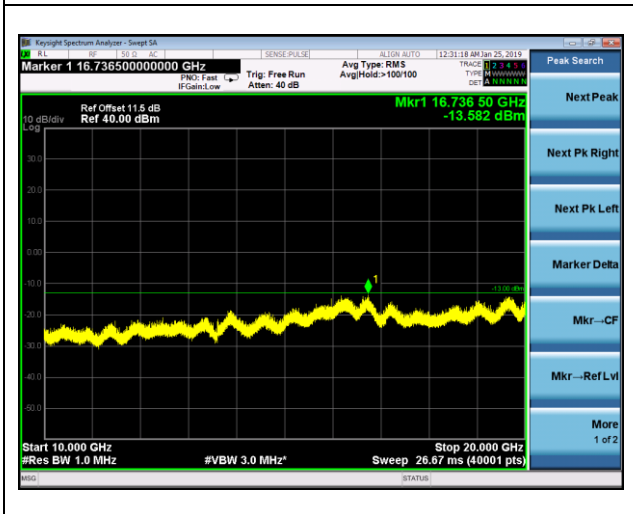
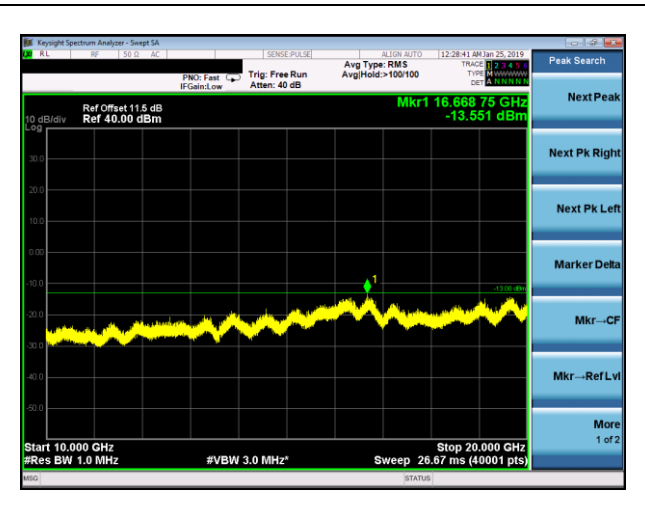
Conducted Emission Transmitting Mode CH 251
5GHz – 10GHz



Conducted Emission Transmitting Mode CH 512
10GHz – 20GHz



Test Plot

GSM1900	GSM1900
<p>Conducted Emission Transmitting Mode CH 661 30MHz – 10GHz</p>	<p>Conducted Emission Transmitting Mode CH 810 30MHz – 10GHz</p>
 <p>Key: Keyight Spectrum Analyzer - Sweep SA Ref Offset 11.5 dB Ref 40.00 dBm Mkr1 9.878 86 GHz -21.732 dBm Avg Type: RMS AvgHold: >100/100 Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 18.67 ms (40001 pts) Stop 10.000 GHz</p>	 <p>Key: Keyight Spectrum Analyzer - Sweep SA Ref Offset 11.5 dB Ref 40.00 dBm Mkr1 5.743 06 GHz -22.304 dBm Avg Type: RMS AvgHold: >100/100 Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 18.67 ms (40001 pts) Stop 10.000 GHz</p>
<p>Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz</p>	<p>Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz</p>
 <p>Key: Keyight Spectrum Analyzer - Sweep SA Marker 1 16.736500000000 GHz Ref Offset 11.5 dB Ref 40.00 dBm Mkr1 16.736 50 GHz -13.582 dBm Avg Type: RMS AvgHold: >100/100 Start 10.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 26.67 ms (40001 pts) Stop 20.000 GHz</p>	 <p>Key: Keyight Spectrum Analyzer - Sweep SA Ref Offset 11.5 dB Ref 40.00 dBm Mkr1 16.688 75 GHz -13.551 dBm Avg Type: RMS AvgHold: >100/100 Start 10.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 26.67 ms (40001 pts) Stop 20.000 GHz</p>

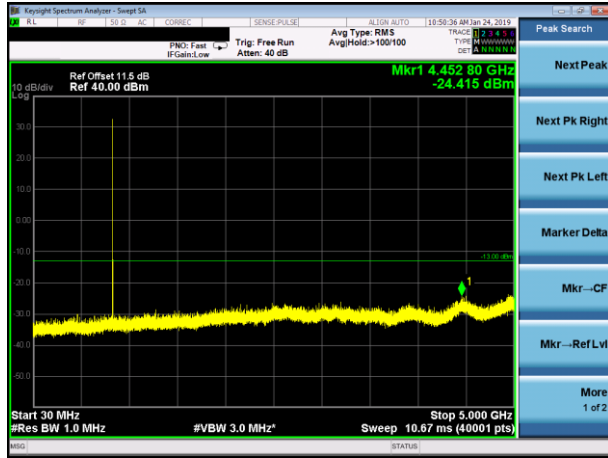
Test Plot

GPRS850	GPRS850
<p>Conducted Emission Transmitting Mode CH 128 30MHz – 5GHz</p>	<p>Conducted Emission Transmitting Mode CH 190 30MHz – 5GHz</p>
<p>Keyight Spectrum Analyzer - Swept SA Ref Offset 11.5 dB Ref 40.00 dBm Mkr1 4.443 98 GHz -25.142 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 10.67 ms (40001 pts)</p>	<p>Keyight Spectrum Analyzer - Swept SA Ref Offset 11.5 dB Ref 40.00 dBm Marker 1 4.513934000000 GHz Mkr1 4.513 93 GHz -24.823 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 10.67 ms (40001 pts)</p>
<p>Conducted Emission Transmitting Mode CH 128 5GHz – 10GHz</p>	<p>Conducted Emission Transmitting Mode CH 190 5GHz – 10GHz</p>
<p>Keyight Spectrum Analyzer - Swept SA Ref Offset 11.5 dB Ref 40.00 dBm Mkr1 9.827 875 GHz -20.879 dBm Start 5.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 10.67 ms (40001 pts)</p>	<p>Keyight Spectrum Analyzer - Swept SA Ref Offset 11.5 dB Ref 40.00 dBm Mkr1 9.842 126 GHz -21.547 dBm Start 5.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 10.67 ms (40001 pts)</p>

Test Plot

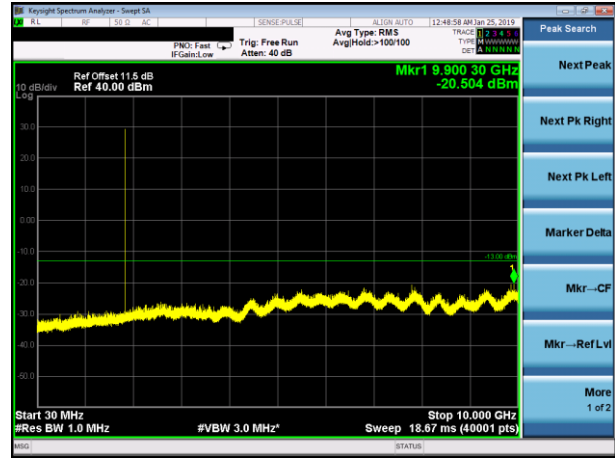
GPRS850

Conducted Emission Transmitting Mode CH 251
30MHz – 5GHz

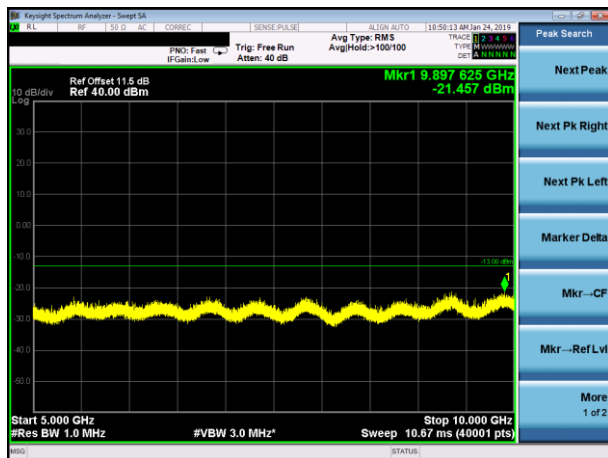


GPRS1900

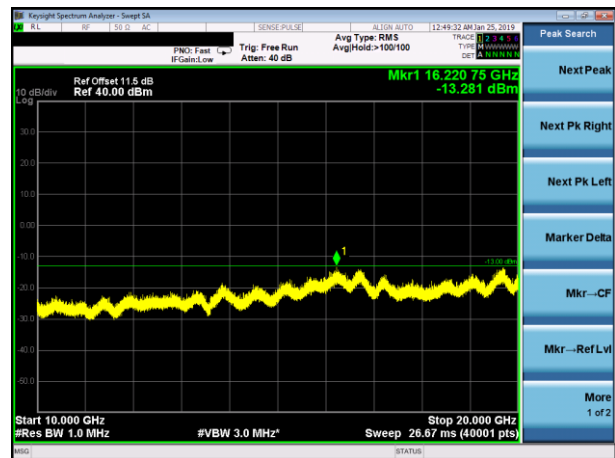
Conducted Emission Transmitting Mode CH 512
30MHz – 10GHz



Conducted Emission Transmitting Mode CH 251
5GHz – 10GHz



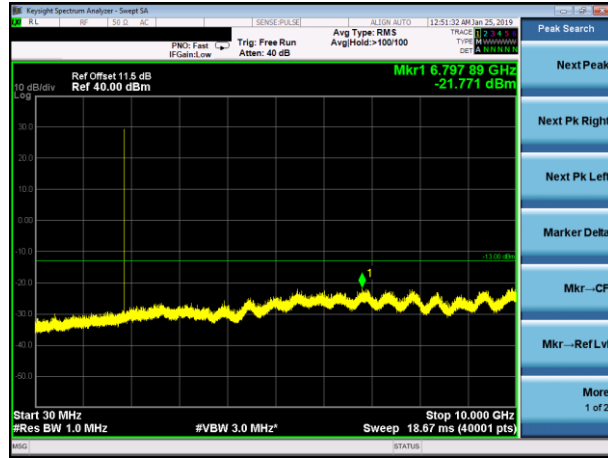
Conducted Emission Transmitting Mode CH 512
10GHz – 20GHz



Test Plot

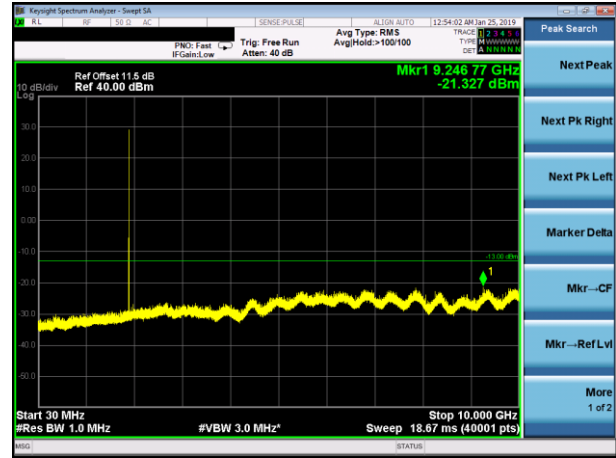
GPRS1900

Conducted Emission Transmitting Mode CH 661
30MHz – 10GHz

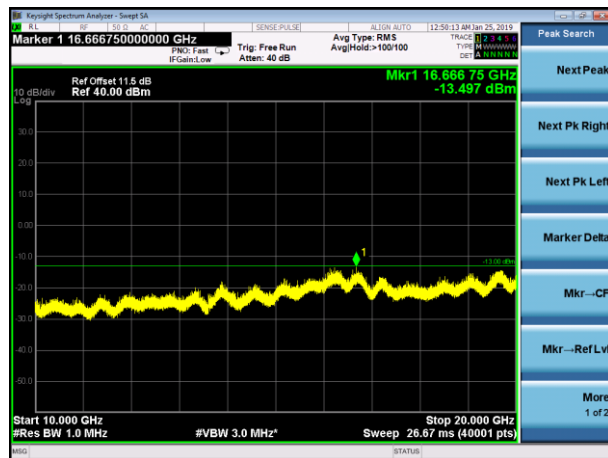


GPRS1900

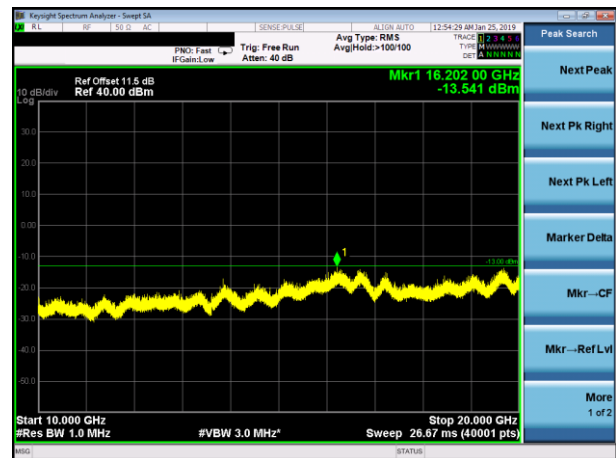
Conducted Emission Transmitting Mode CH 810
30MHz – 10GHz



Conducted Emission Transmitting Mode CH 661
10GHz – 20GHz



Conducted Emission Transmitting Mode CH 810
10GHz – 20GHz



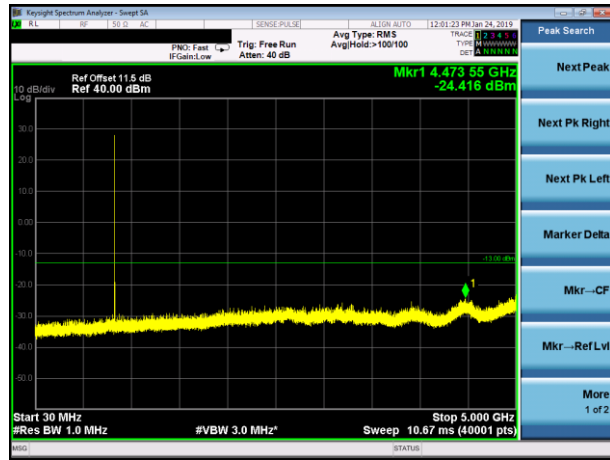
Test Plot

EGPRS850	EGPRS850
<p>Conducted Emission Transmitting Mode CH 128 30MHz – 5GHz</p>	<p>Conducted Emission Transmitting Mode CH 190 30MHz – 5GHz</p>
<p>KeySight Spectrum Analyzer - Swept SA Ref Offset 11.5 dB Ref 40.00 dBm Mkr1 4.496 91 GHz -24.061 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 10.67 ms (40001 pts)</p>	<p>KeySight Spectrum Analyzer - Swept SA Ref Offset 11.5 dB Ref 40.00 dBm Mkr1 4.507 10 GHz -23.851 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 10.67 ms (40001 pts)</p>
<p>Conducted Emission Transmitting Mode CH 128 5GHz – 10GHz</p>	<p>Conducted Emission Transmitting Mode CH 190 5GHz – 10GHz</p>
<p>KeySight Spectrum Analyzer - Swept SA Ref Offset 11.5 dB Ref 40.00 dBm Marker 1 9.3527500000 GHz -20.517 dBm Start 5.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 10.67 ms (40001 pts)</p>	<p>KeySight Spectrum Analyzer - Swept SA Ref Offset 11.5 dB Ref 40.00 dBm Mkr1 9.984 000 GHz -19.746 dBm Start 5.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 10.67 ms (40001 pts)</p>

Test Plot

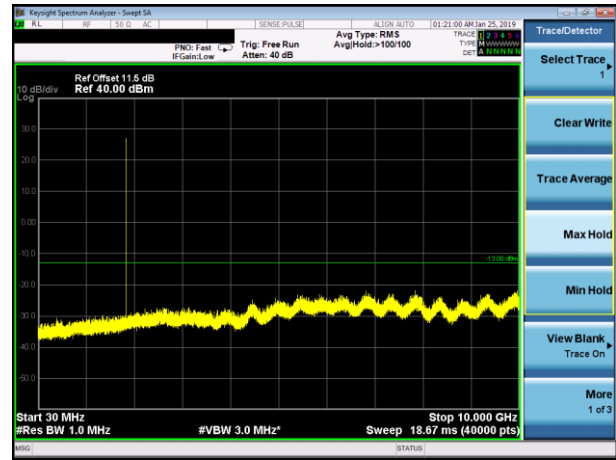
EGPRS850

Conducted Emission Transmitting Mode CH 251
30MHz – 5GHz

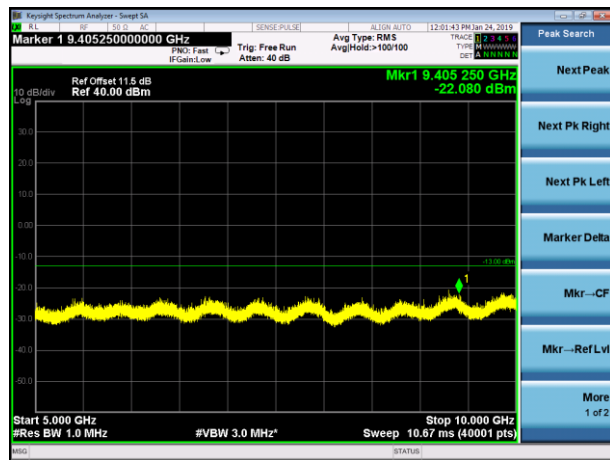


EGPRS1900

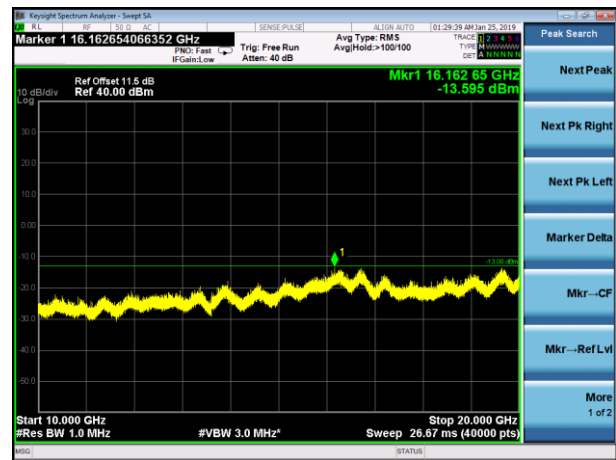
Conducted Emission Transmitting Mode CH 512
30MHz – 10GHz



Conducted Emission Transmitting Mode CH 251
5GHz – 10GHz



Conducted Emission Transmitting Mode CH 512
10GHz – 20GHz



Test Plot

EGPRS1900	EGPRS1900
<p>Conducted Emission Transmitting Mode CH 661 30MHz – 10GHz</p>	<p>Conducted Emission Transmitting Mode CH 810 30MHz – 10GHz</p>
<p>Keyight Spectrum Analyzer - Swept SA Ref Offset 11.5 dB Ref 40.00 dBm Mkr1 6.830 46 GHz -22.254 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 18.67 ms (40000 pts)</p>	<p>Keyight Spectrum Analyzer - Swept SA Ref Offset 11.5 dB Ref 40.00 dBm Mkr1 6.909 97 GHz -21.464 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 18.67 ms (40000 pts)</p>
<p>Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz</p>	<p>Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz</p>
<p>Keyight Spectrum Analyzer - Swept SA Ref Offset 11.5 dB Ref 40.00 dBm Mkr1 16.273 91 GHz -13.215 dBm Start 10.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 26.67 ms (40000 pts)</p>	<p>Keyight Spectrum Analyzer - Swept SA Ref Offset 11.5 dB Ref 40.00 dBm Marker 1 16.714667366697 GHz Mkr1 16.714 67 GHz -13.882 dBm Start 10.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 26.67 ms (40000 pts)</p>

END OF REPORT