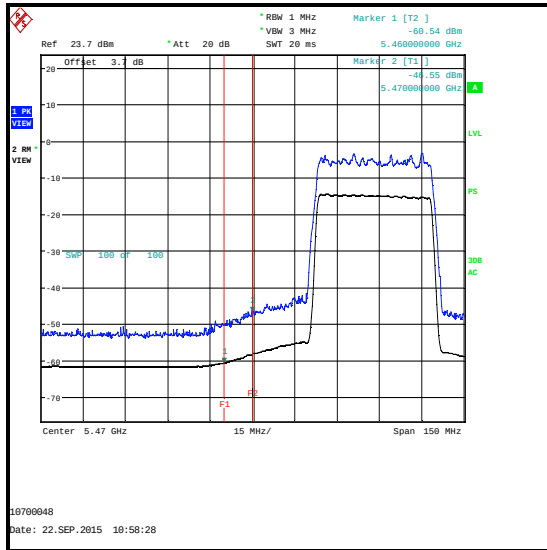
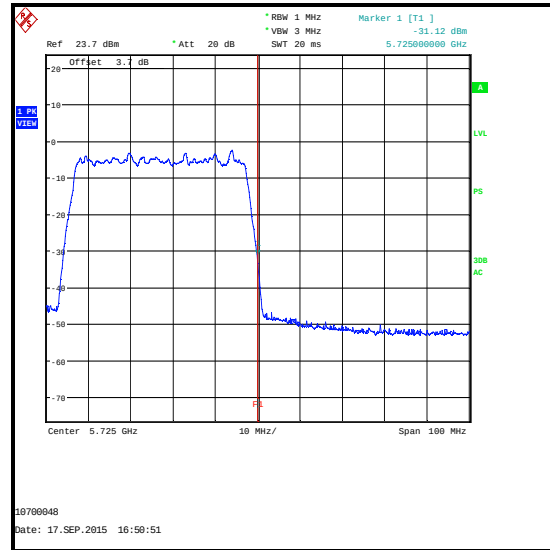
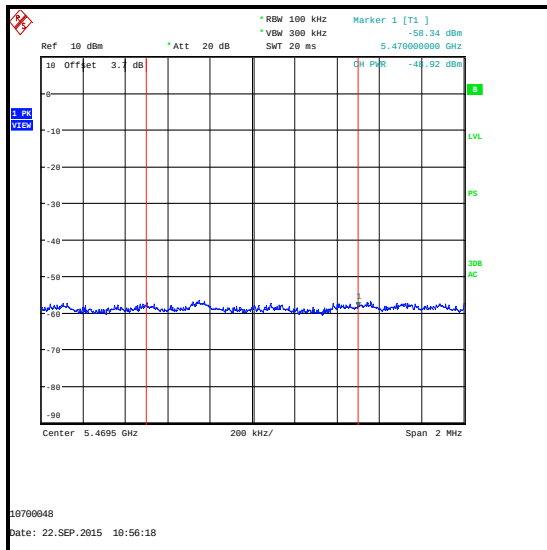
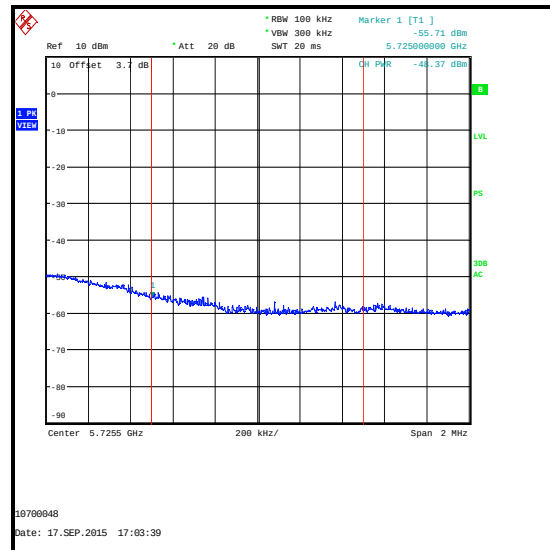
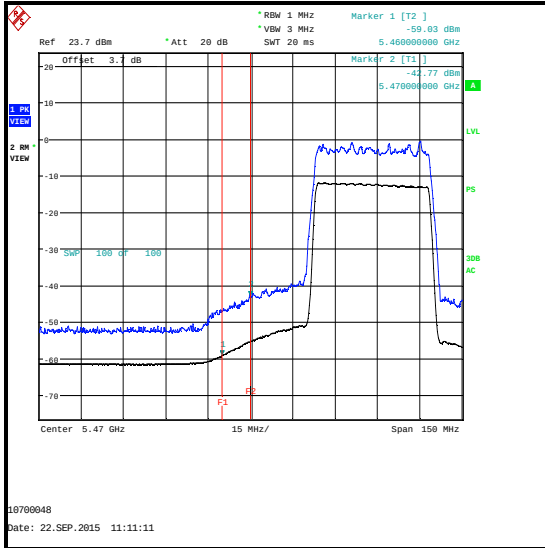
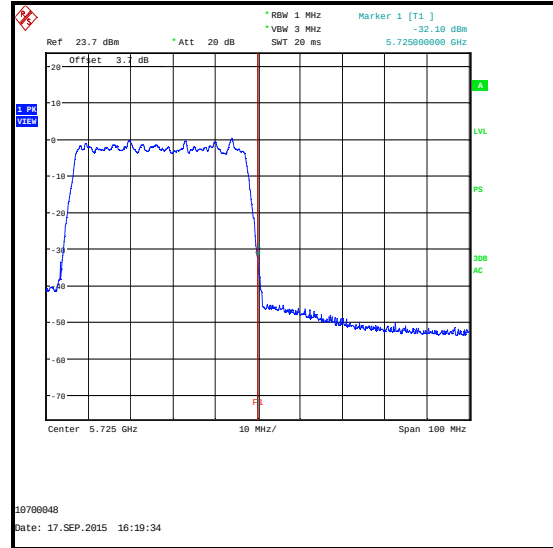
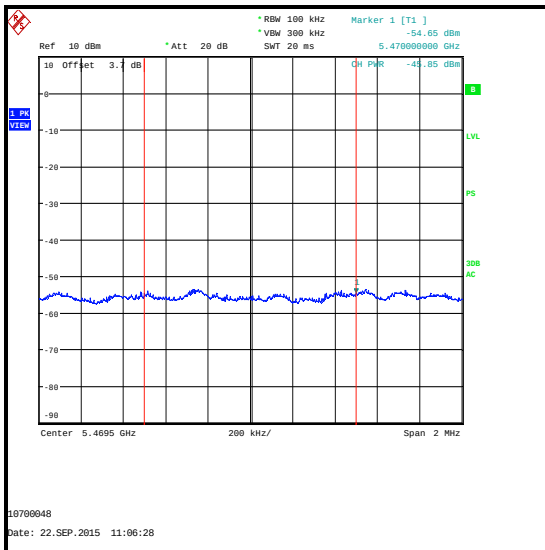
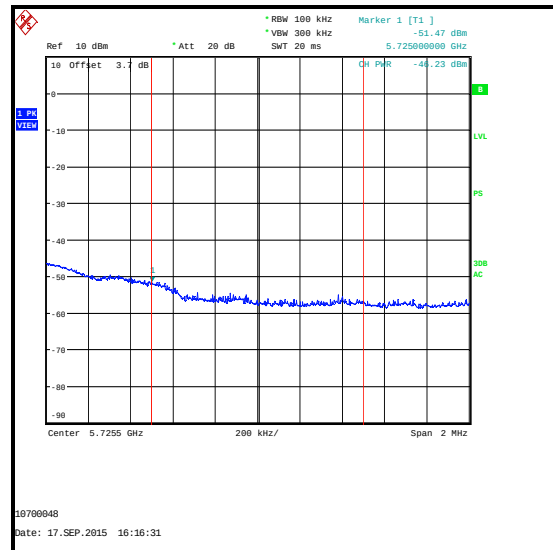


Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Sectorised Antenna / 45 MHz Channel**

Frequency (MHz)	Conducted Emission Level H Port (dBm/MHz)	Conducted Emission Level V Port (dBm/MHz)	Combined Conducted Emission Level (dBm/MHz)	Antenna Gain (dBi)	EIRP (dBm/MHz)
5470	-48.9*	-45.8*	-44.1	16.1	-28.0
5725	-48.4*	-46.2*	-44.2	16.1	-28.1

Frequency (MHz)	EIRP (dBm/MHz)	EIRP Limit (dBm/MHz)	Margin (dB)	Result
5470	-28.0	-27.0	1.0	Complied
5725	-28.1	-27.0	1.1	Complied

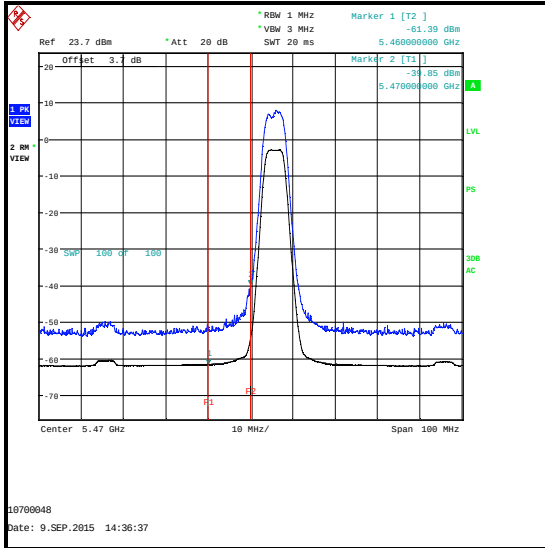
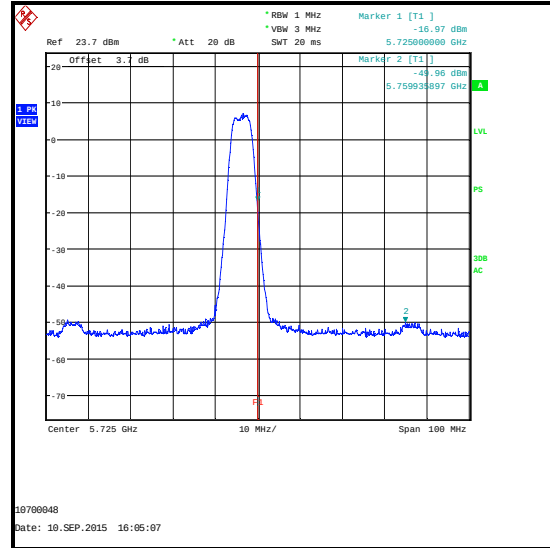
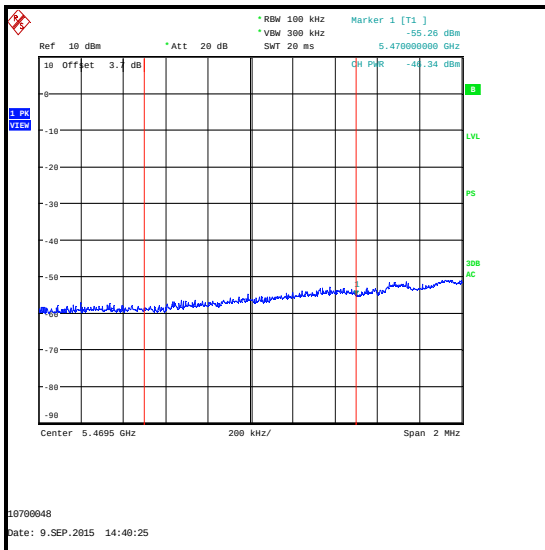
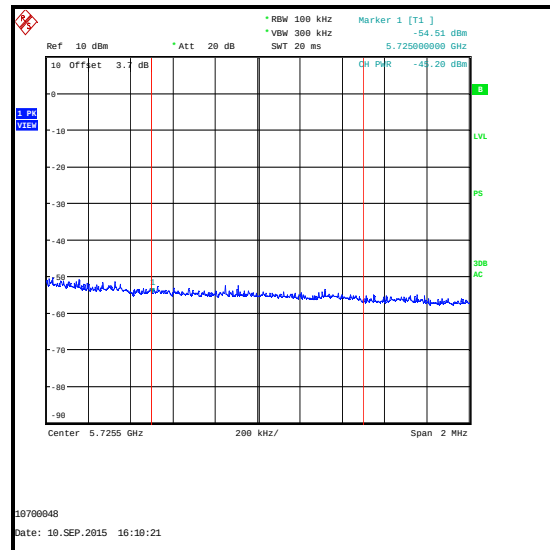
Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Sectorised Antenna / 45 MHz Channel****H Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

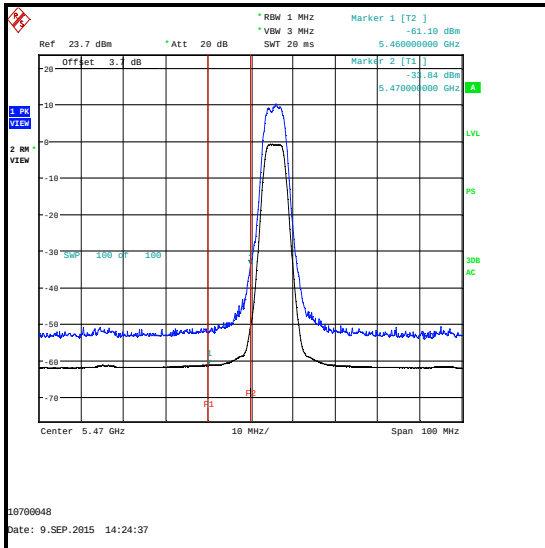
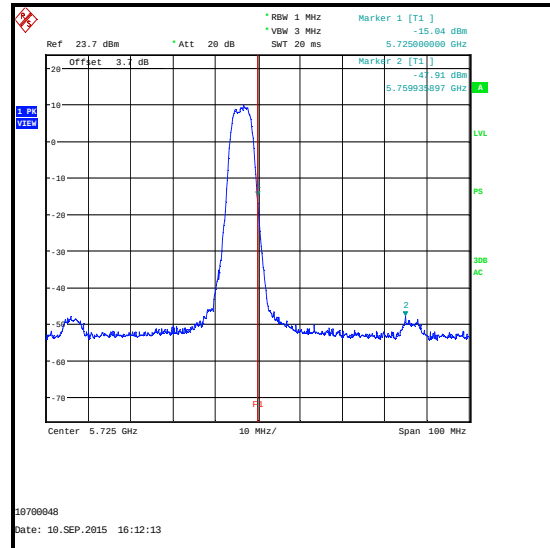
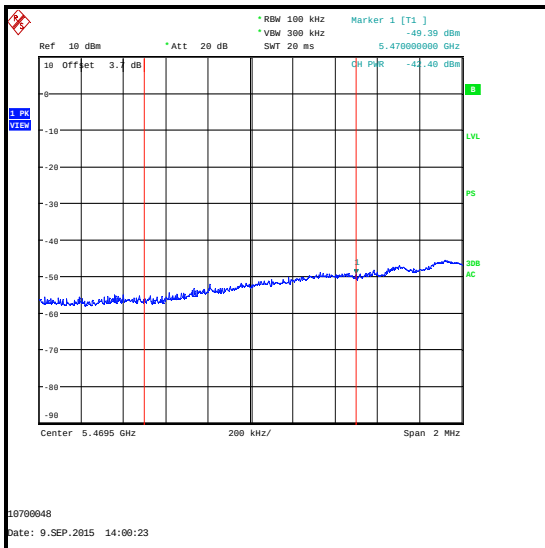
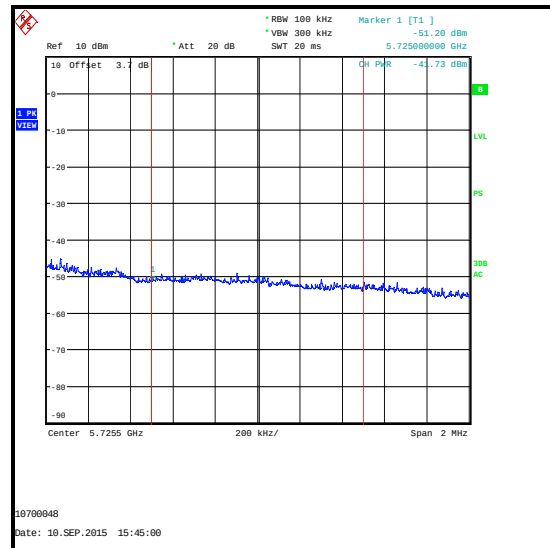
Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Sectorised Antenna / 45 MHz Channel****V Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 5 MHz Channel**

Frequency (MHz)	Conducted Emission Level H Port (dBm/MHz)	Conducted Emission Level V Port (dBm/MHz)	Combined Conducted Emission Level (dBm/MHz)	Antenna Gain (dBi)	EIRP (dBm/MHz)
5470	-46.3*	-42.4*	-40.9	12.1	-28.8
5725	-45.2*	-41.7*	-40.1	12.1	-28.0
5759.936	-50.0	-47.9	-45.8	12.1	-33.7

Frequency (MHz)	EIRP (dBm/MHz)	EIRP Limit (dBm/MHz)	Margin (dB)	Result
5470	-28.8	-27.0	1.8	Complied
5725	-28.0	-27.0	1.0	Complied
5759.936	-33.7	-27.0	6.7	Complied

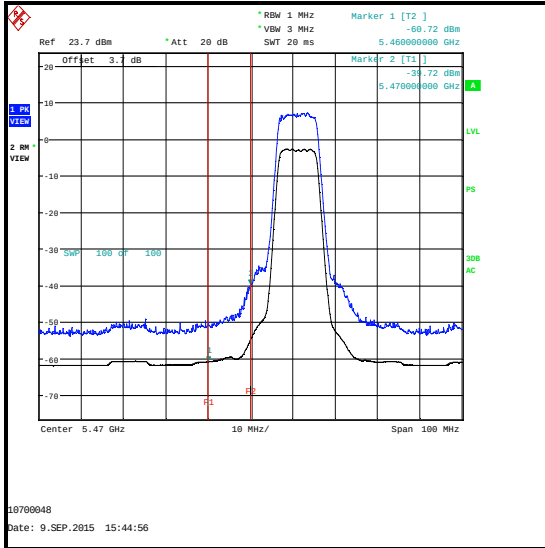
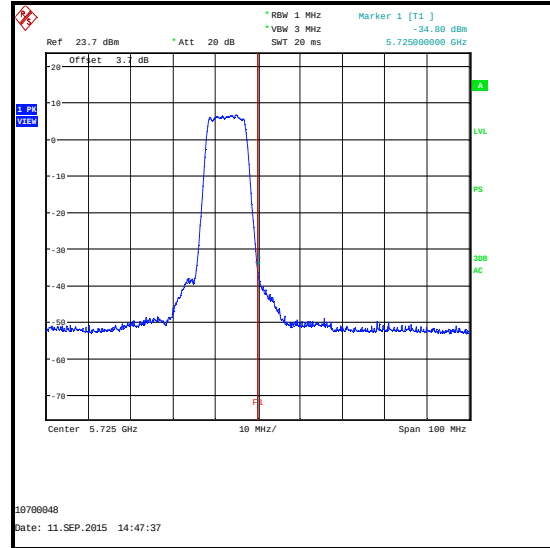
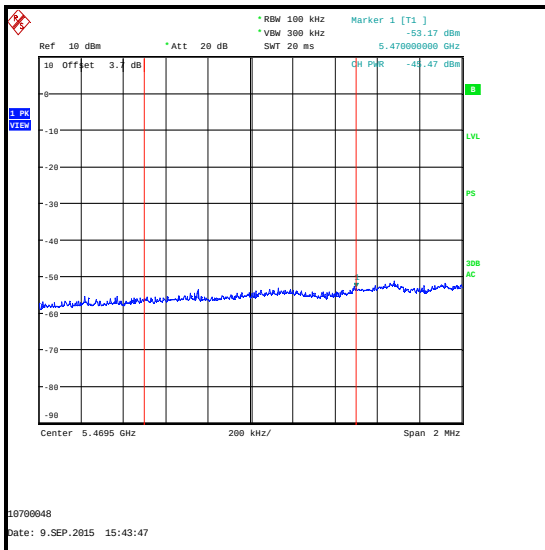
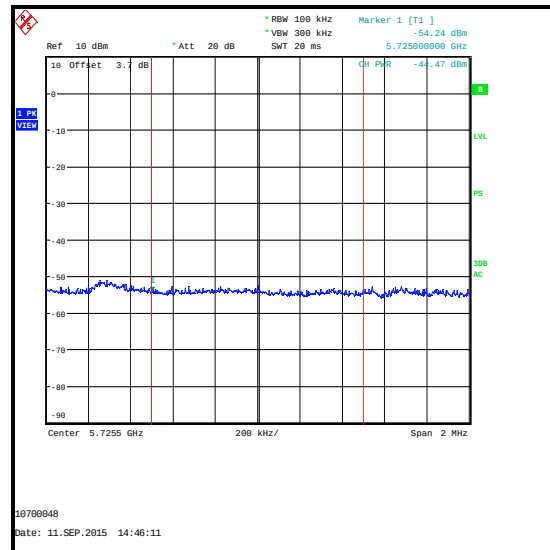
Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 5 MHz Channel****H Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

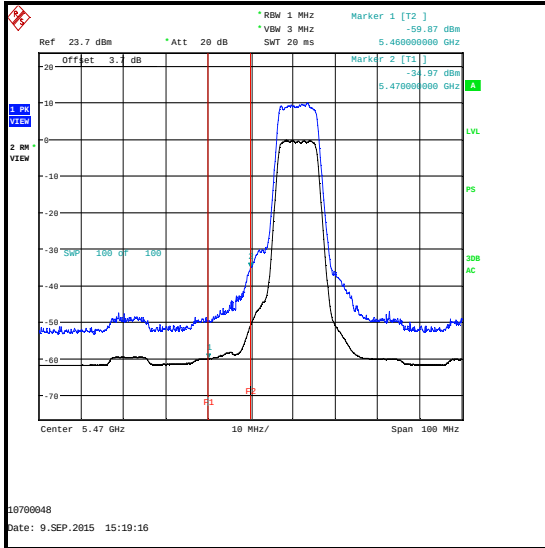
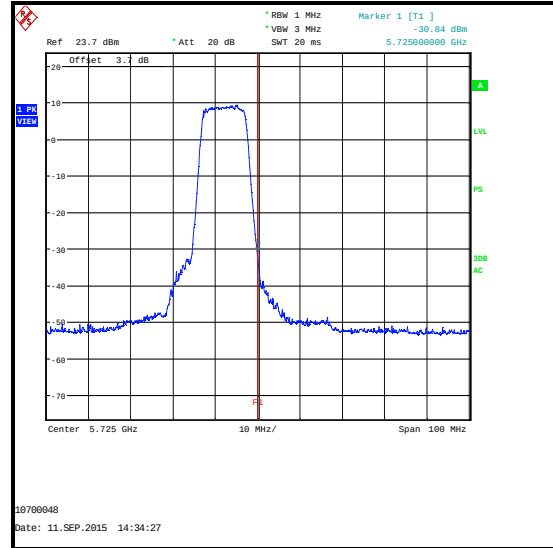
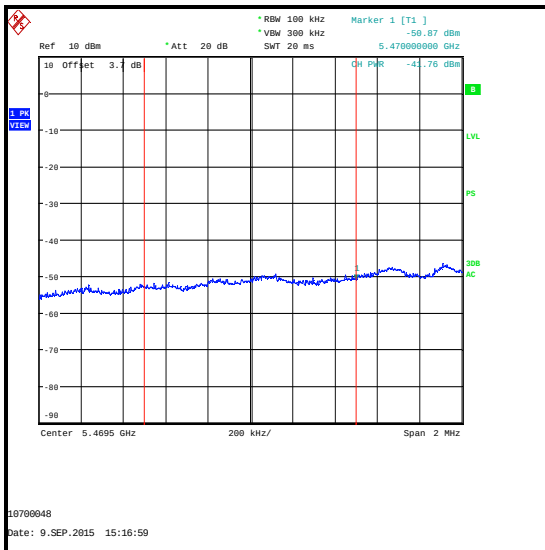
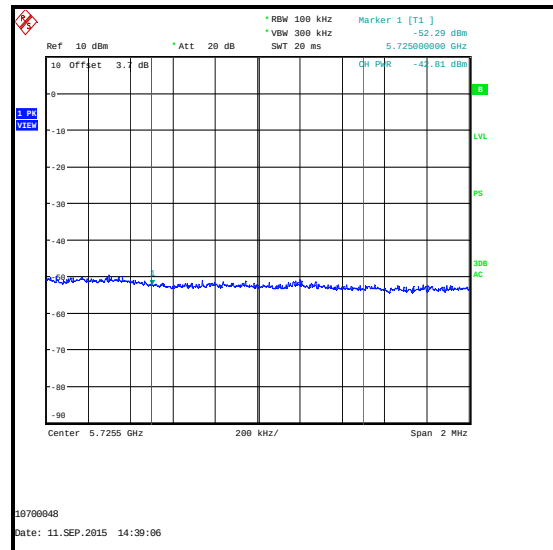
Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 5 MHz Channel****V Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 10 MHz Channel**

Frequency (MHz)	Conducted Emission Level H Port (dBm/MHz)	Conducted Emission Level V Port (dBm/MHz)	Combined Conducted Emission Level (dBm/MHz)	Antenna Gain (dBi)	EIRP (dBm/MHz)
5470	-45.5*	-41.8*	-40.3	12.1	-28.2
5725	-44.5*	-42.8*	-40.6	12.1	-28.5

Frequency (MHz)	EIRP (dBm/MHz)	EIRP Limit (dBm/MHz)	Margin (dB)	Result
5470	-28.2	-27.0	1.2	Complied
5725	-28.5	-27.0	1.5	Complied

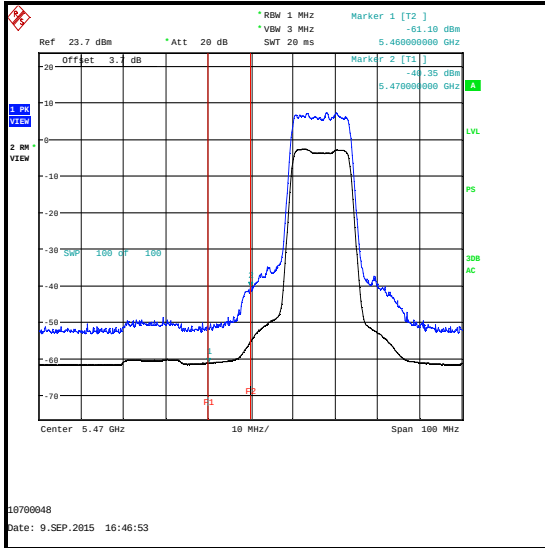
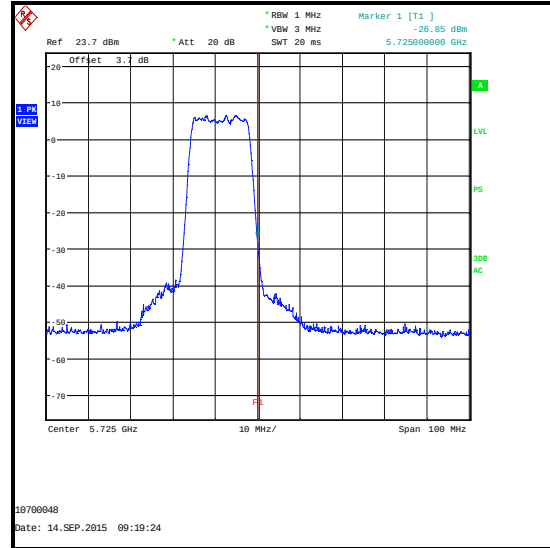
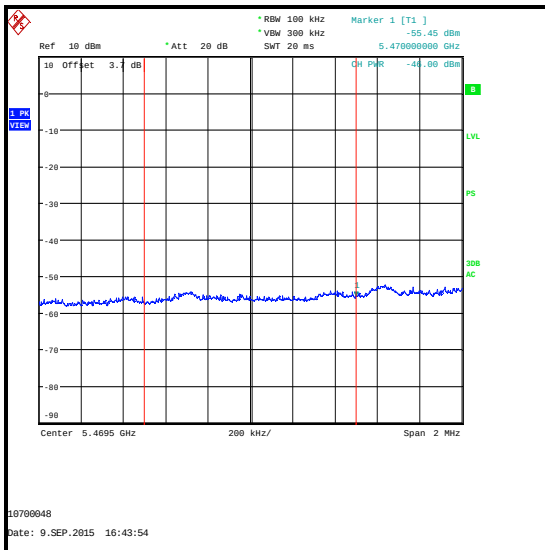
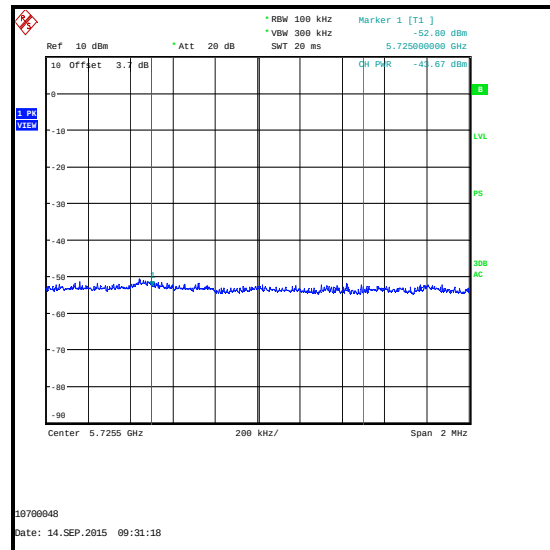
Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 10 MHz Channel****H Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

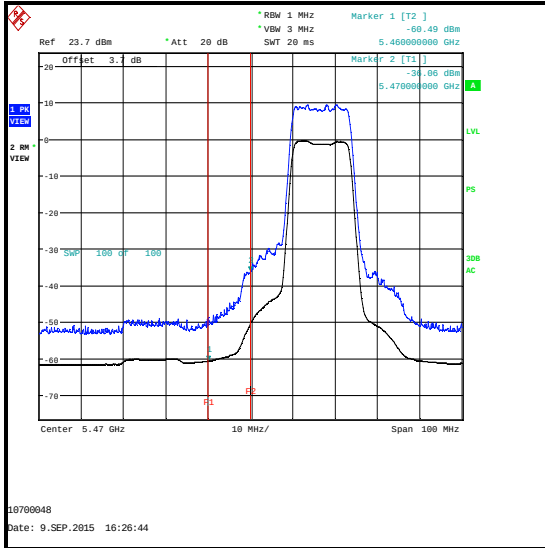
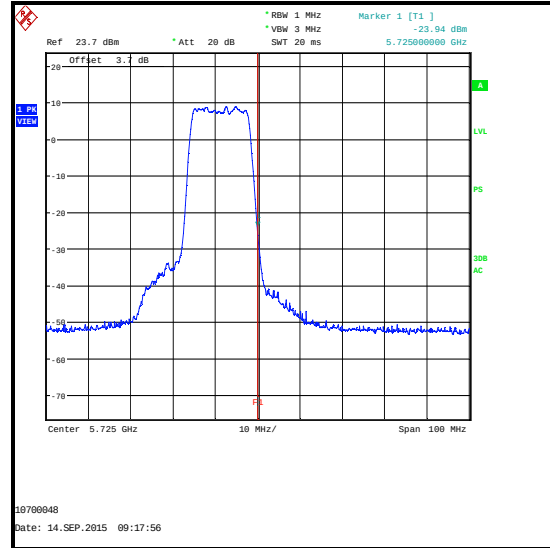
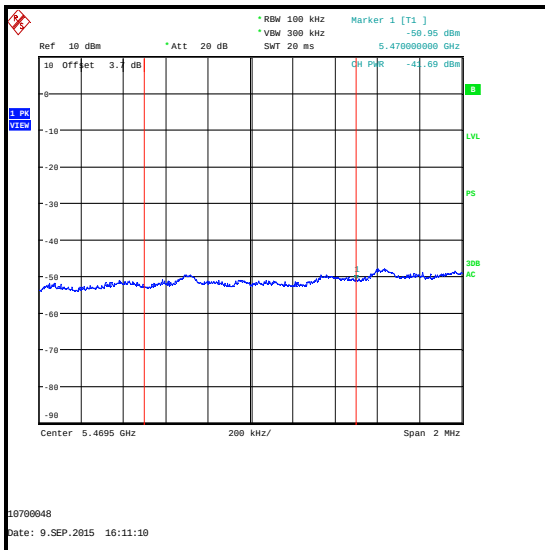
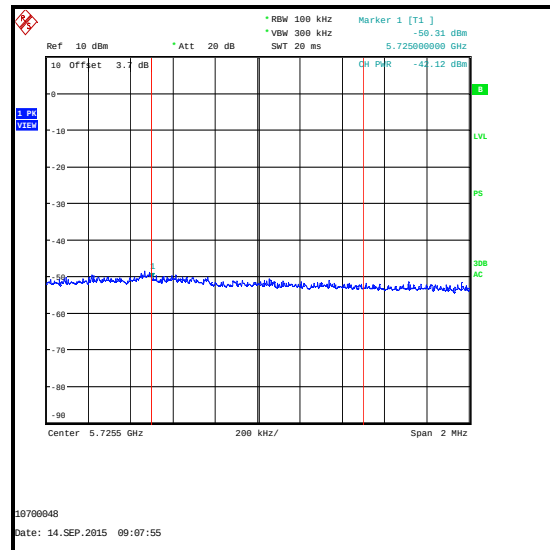
Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 10 MHz Channel****V Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 15 MHz Channel**

Frequency (MHz)	Conducted Emission Level H Port (dBm/MHz)	Conducted Emission Level V Port (dBm/MHz)	Combined Conducted Emission Level (dBm/MHz)	Antenna Gain (dBi)	EIRP (dBm/MHz)
5470	-46.0*	-41.7*	-40.3	12.1	-28.2
5725	-43.7*	-42.1*	-39.8	12.1	-27.7

Frequency (MHz)	EIRP (dBm/MHz)	EIRP Limit (dBm/MHz)	Margin (dB)	Result
5470	-28.2	-27.0	1.2	Complied
5725	-27.7	-27.0	0.7	Complied

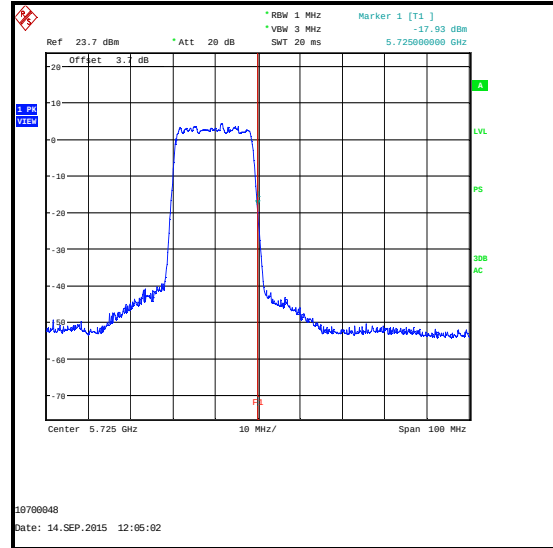
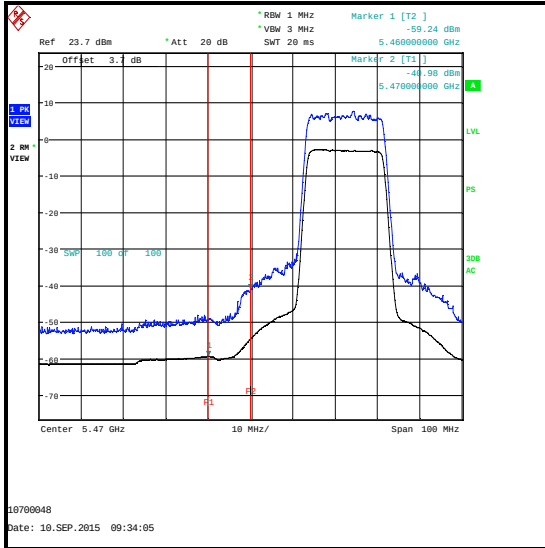
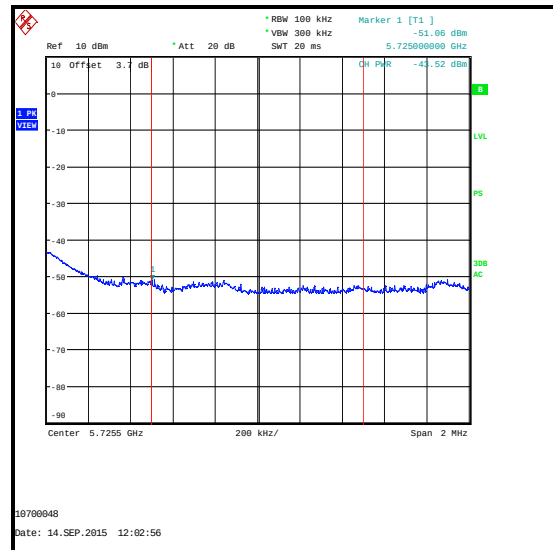
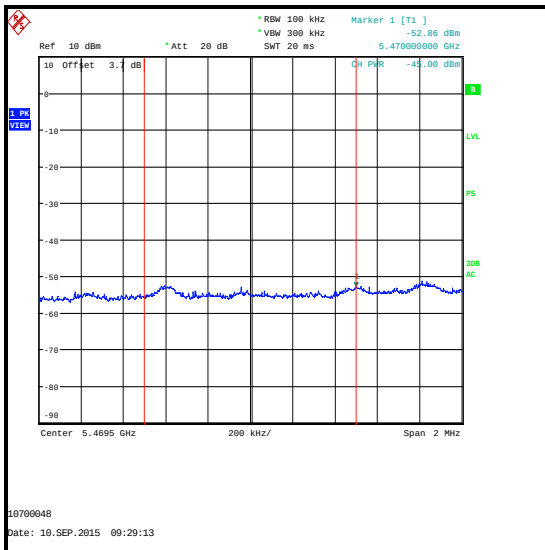
Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 15 MHz Channel****H Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

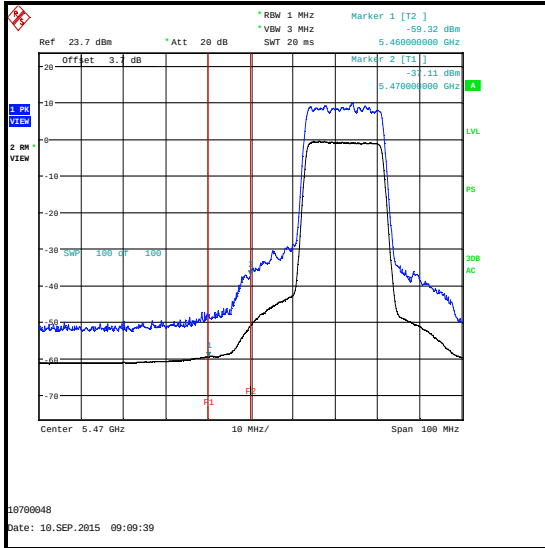
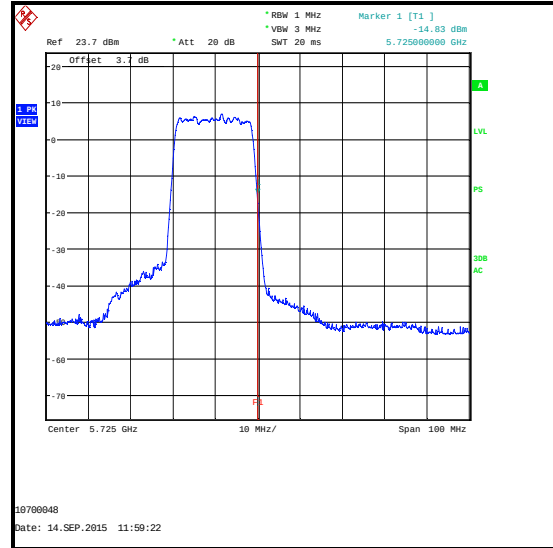
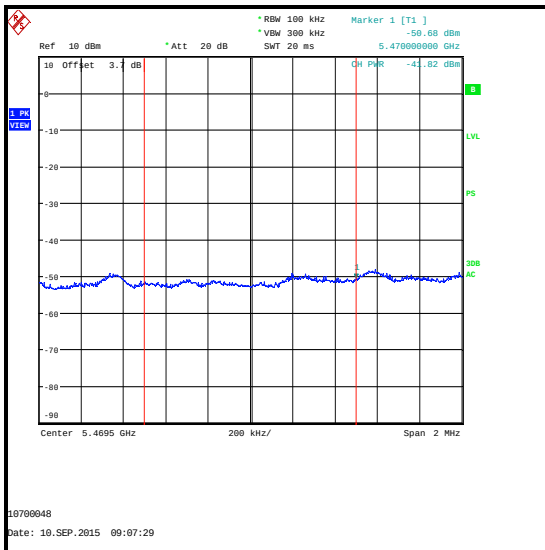
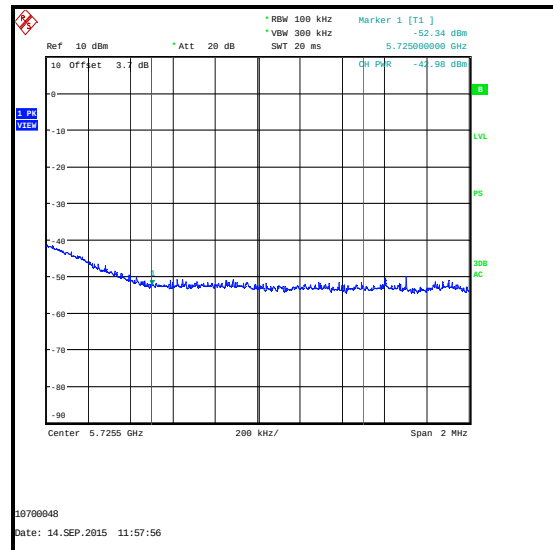
Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 15 MHz Channel****V Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 20 MHz Channel**

Frequency (MHz)	Conducted Emission Level H Port (dBm/MHz)	Conducted Emission Level V Port (dBm/MHz)	Combined Conducted Emission Level (dBm/MHz)	Antenna Gain (dBi)	EIRP (dBm/MHz)
5470	-45.0*	-41.8*	-40.1	12.1	-28.0
5725	-43.5*	-43.0*	-40.2	12.1	-28.1

Frequency (MHz)	EIRP (dBm/MHz)	EIRP Limit (dBm/MHz)	Margin (dB)	Result
5470	-28.0	-27.0	1.0	Complied
5725	-28.1	-27.0	1.1	Complied

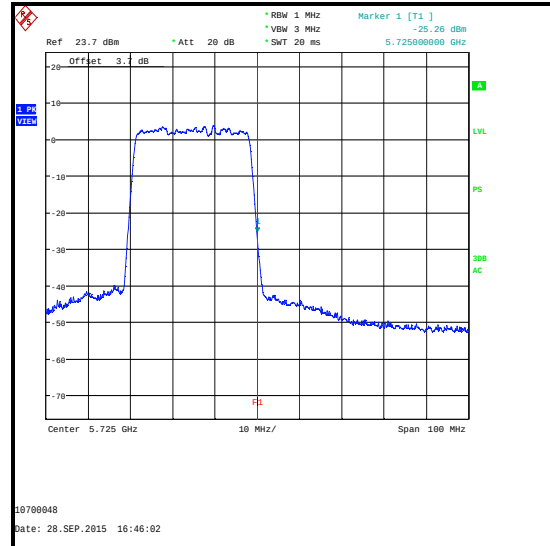
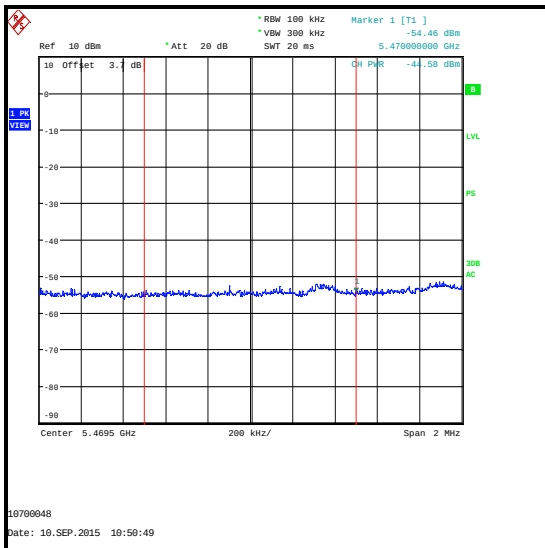
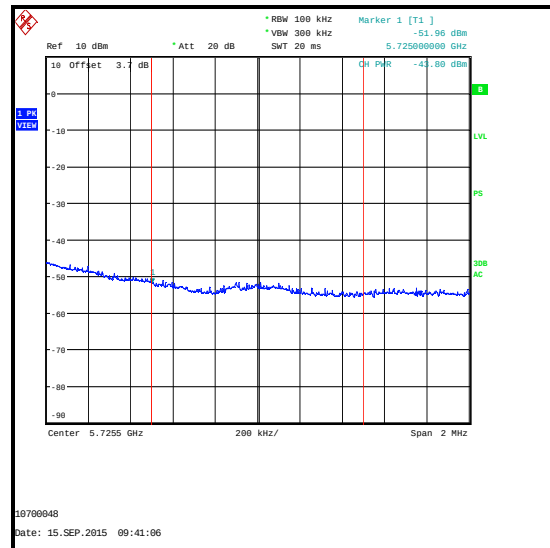
Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 20 MHz Channel****H Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

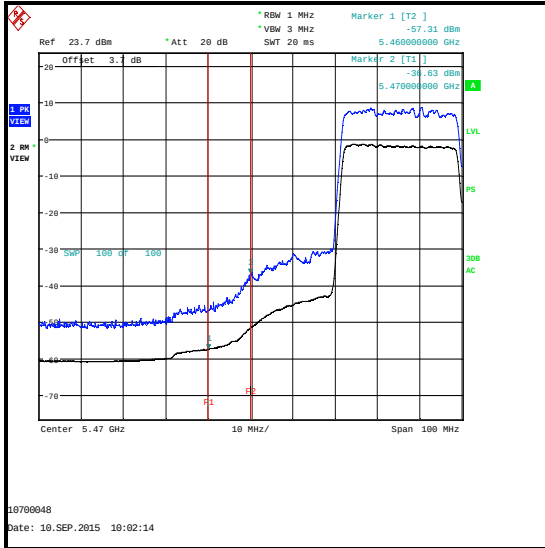
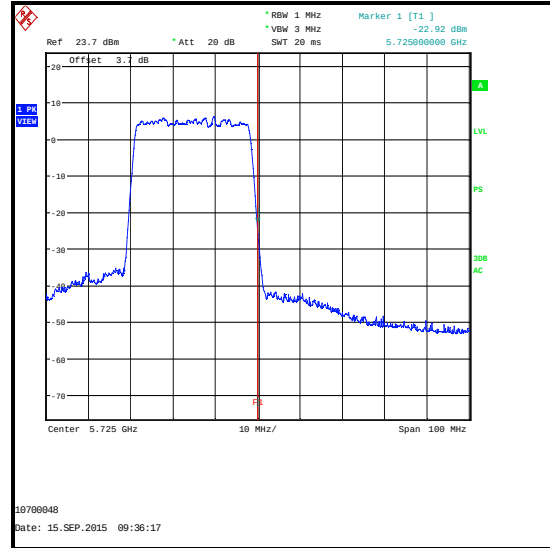
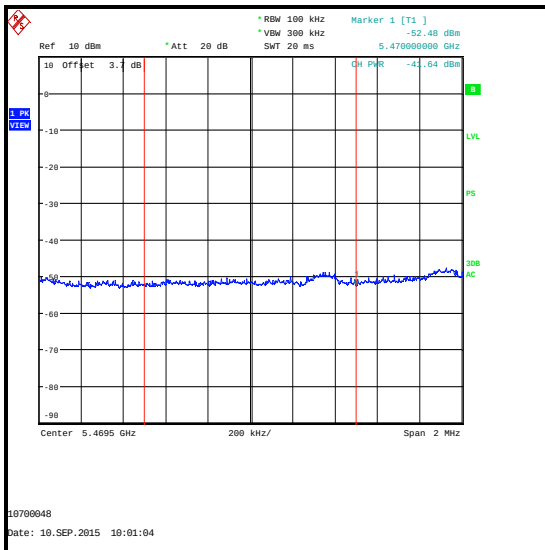
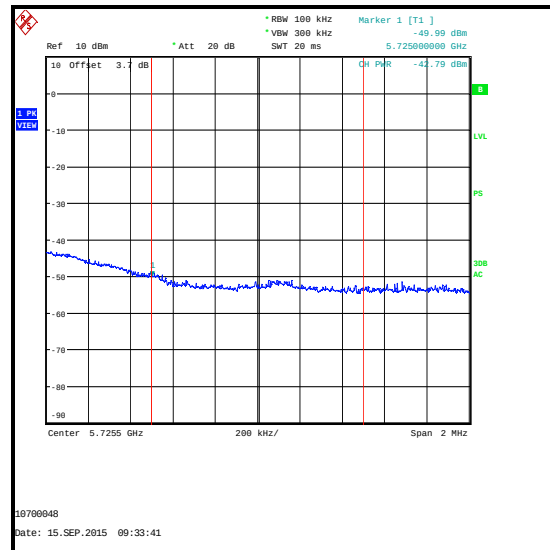
Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 20 MHz Channel****V Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 30 MHz Channel**

Frequency (MHz)	Conducted Emission Level H Port (dBm/MHz)	Conducted Emission Level V Port (dBm/MHz)	Combined Conducted Emission Level (dBm/MHz)	Antenna Gain (dBi)	EIRP (dBm/MHz)
5470	-44.6*	-41.6*	-39.8	12.1	-27.7
5725	-43.8*	-42.8*	-40.3	12.1	-28.2

Frequency (MHz)	EIRP (dBm/MHz)	EIRP Limit (dBm/MHz)	Margin (dB)	Result
5470	-27.7	-27.0	0.7	Complied
5725	-28.2	-27.0	1.2	Complied

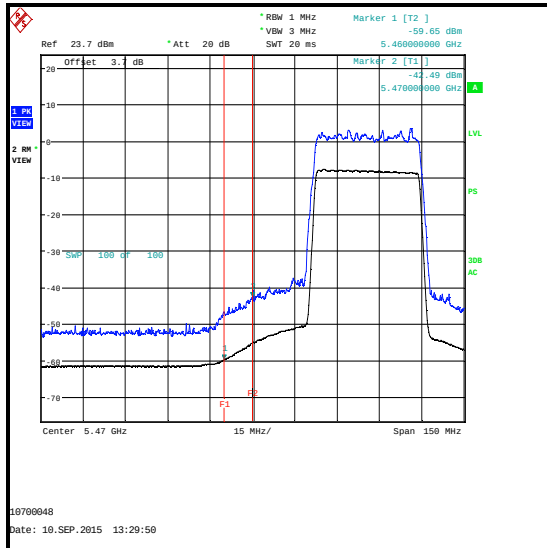
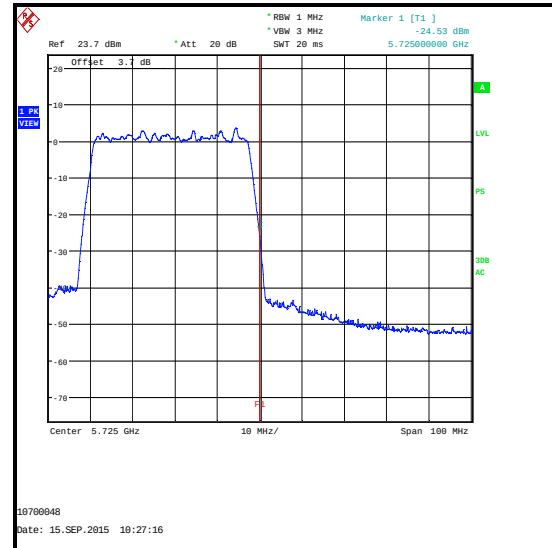
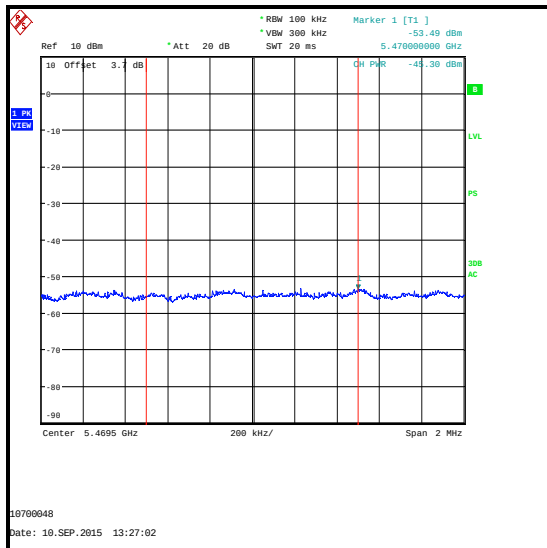
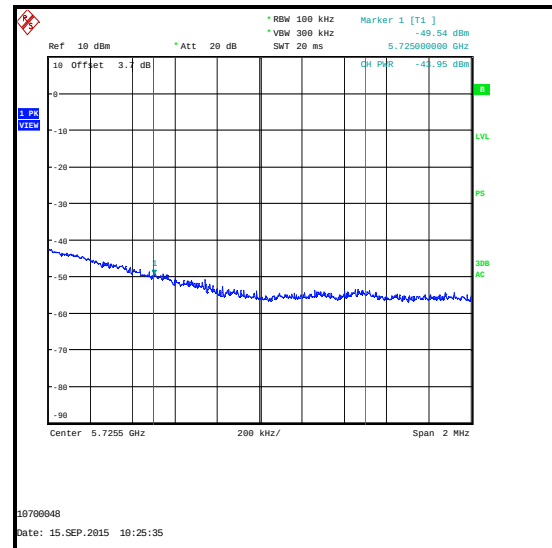
Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 30 MHz Channel****H Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

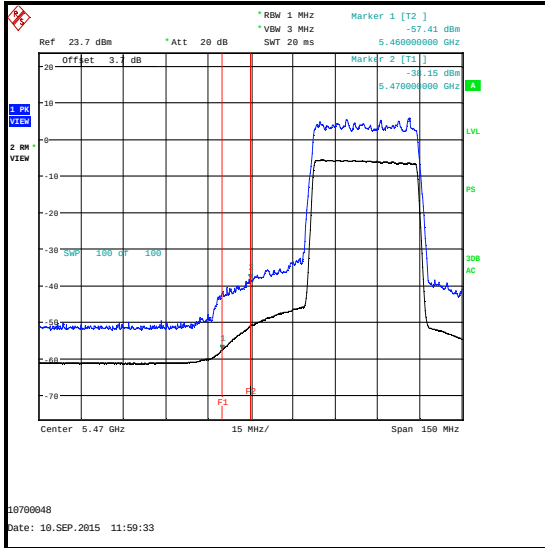
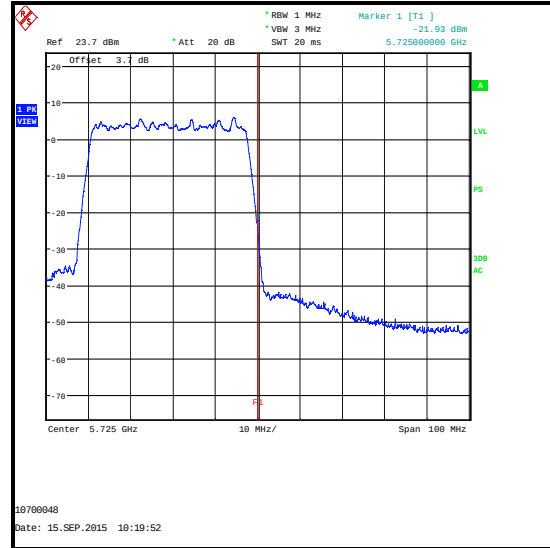
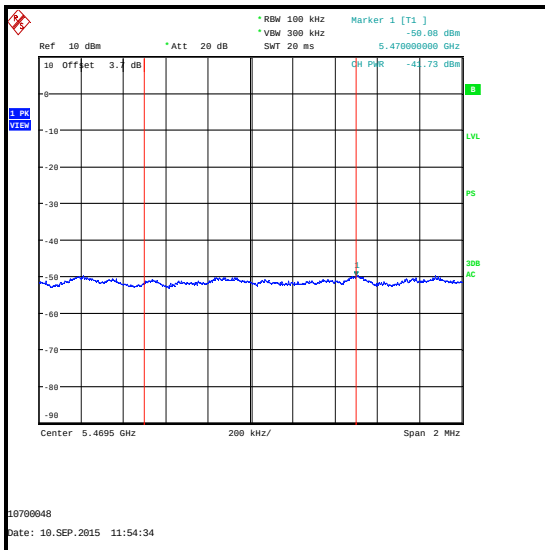
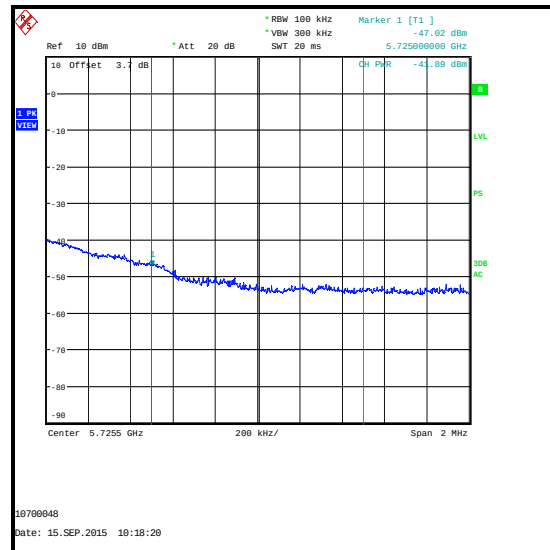
Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 30 MHz Channel****V Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 40 MHz Channel**

Frequency (MHz)	Conducted Emission Level H Port (dBm/MHz)	Conducted Emission Level V Port (dBm/MHz)	Combined Conducted Emission Level (dBm/MHz)	Antenna Gain (dBi)	EIRP (dBm/MHz)
5470	-45.3*	-41.7*	-40.1	12.1	-28.0
5725	-43.9*	-41.9*	-39.8	12.1	-27.7

Frequency (MHz)	EIRP (dBm/MHz)	EIRP Limit (dBm/MHz)	Margin (dB)	Result
5470	-28.0	-27.0	1.0	Complied
5725	-27.7	-27.0	0.7	Complied

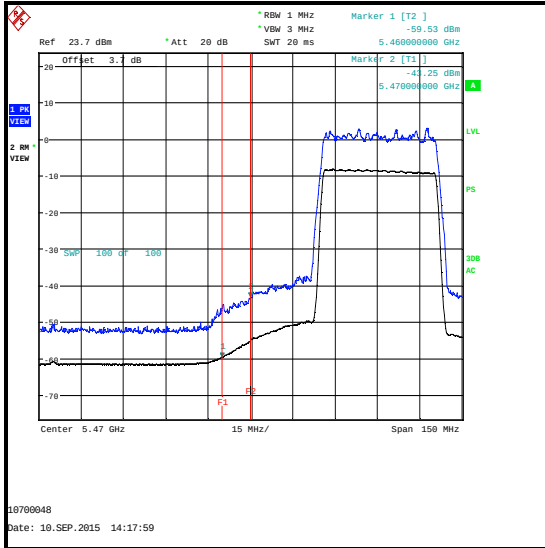
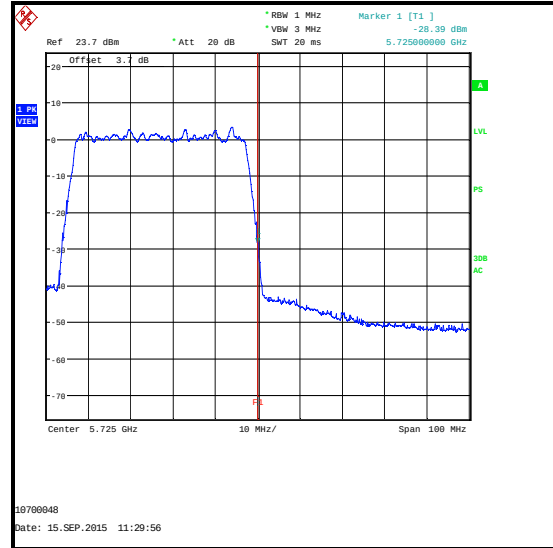
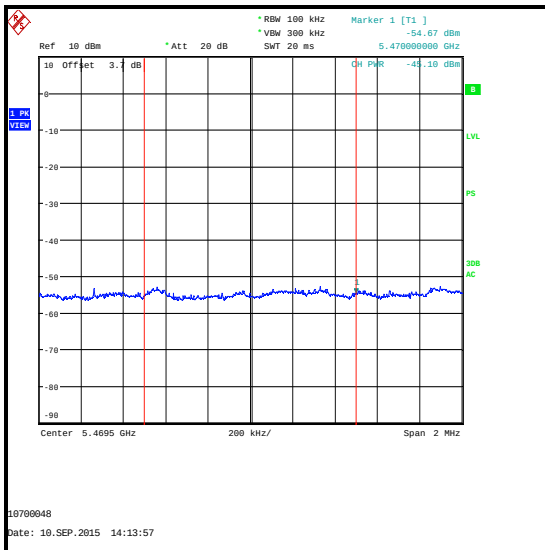
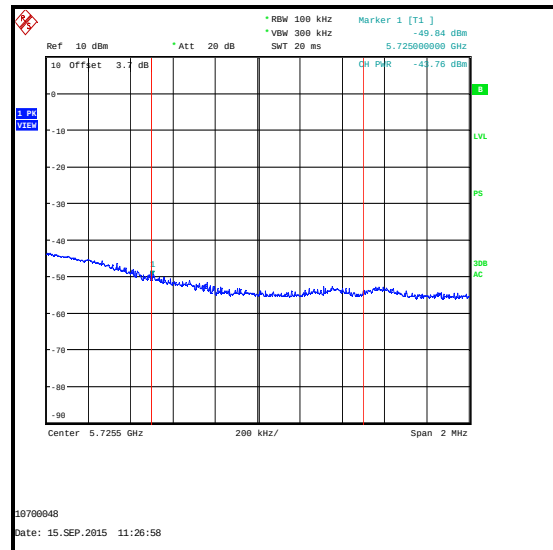
Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 40 MHz Channel****H Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

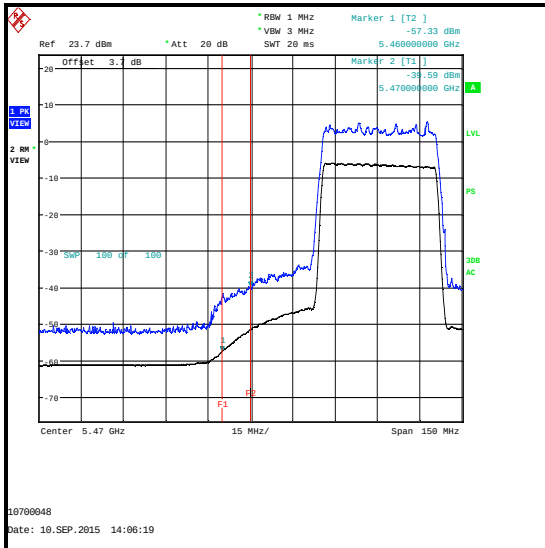
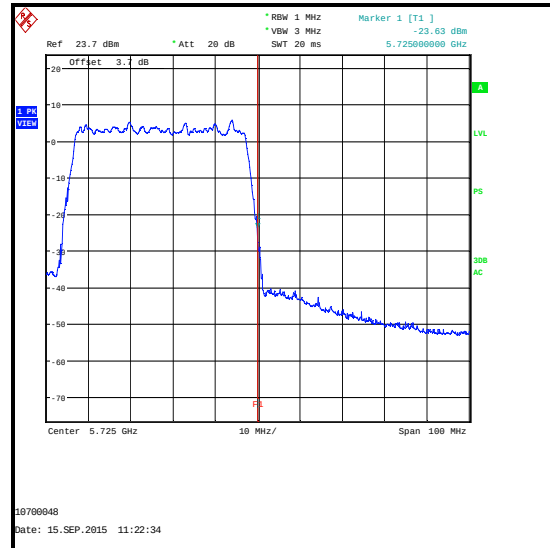
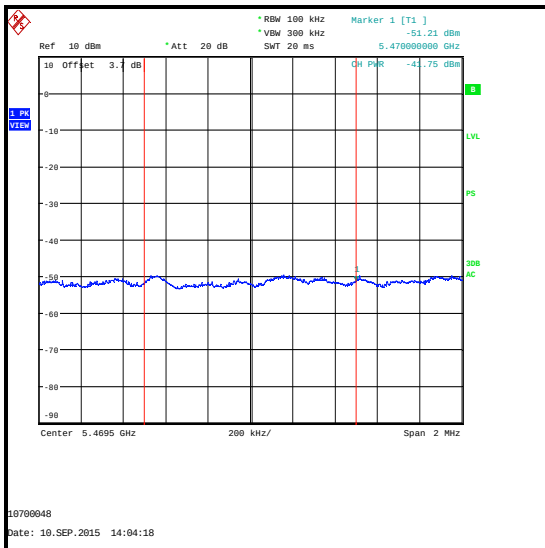
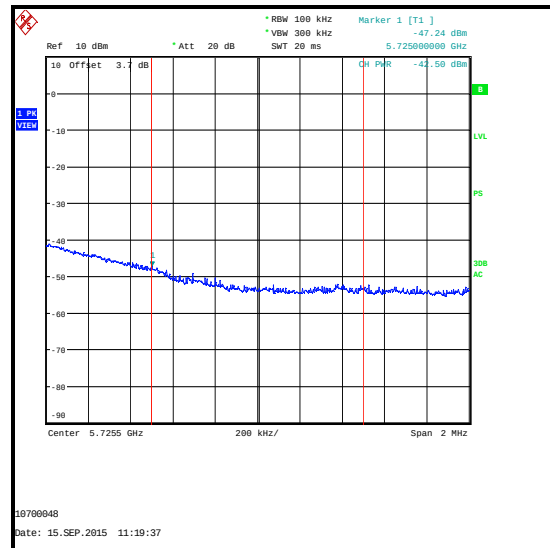
Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 40 MHz Channel****V Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 45 MHz Channel**

Frequency (MHz)	Conducted Emission Level H Port (dBm/MHz)	Conducted Emission Level V Port (dBm/MHz)	Combined Conducted Emission Level (dBm/MHz)	Antenna Gain (dBi)	EIRP (dBm/MHz)
5470	-45.1*	-41.7*	-40.1	12.1	-28.0
5725	-43.8*	-42.5*	-40.1	12.1	-28.0

Frequency (MHz)	EIRP (dBm/MHz)	EIRP Limit (dBm/MHz)	Margin (dB)	Result
5470	-28.0	-27.0	1.0	Complied
5725	-28.0	-27.0	1.0	Complied

Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 45 MHz Channel****H Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

Transmitter Band Edge Conducted Emissions (5.47-5.725 GHz Band) (continued)**Results: BPSK / Omnidirectional Antenna / 45 MHz Channel****V Port****Lower Band Edge Measurement****Upper Band Edge Measurement****Lower Band Edge Measurement
Integration method****Upper Band Edge Measurement
Integration method**

Transmitter Band Edge Conducted Emissions (continued)**Test Equipment Used:**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
A1867	Attenuator	Hewlett Packard	8491A	16823	Calibrated Before Use	N/A
M1886	Test Receiver	Rohde & Schwarz	ESU26	100554	21 May 2016	12
G0608	Signal Generator	Rohde & Schwarz	SMIQ 06B	838341/033	01 Apr 2016	12
M1785	Thermohygrometer	JM Handelspunkt	30.5015.13	None stated	23 Apr 2016	12

5.2.8. Transmitter Power Control**Test Summary:**

Test Engineer:	Georgios Vrezas	Test Date:	21 October 2015
Test Sample Serial Number:	0004565800E2		

FCC Reference:	Part 15.407(h)
Test Method Used:	FCC KDB 789033 D02 Section II.E.3.a Method PM

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	41

Note(s):

1. Transmitter power control tests were performed as the maximum E.I.R.P. is greater than 500 mW.
2. Tests were performed with the EUT transmitting from the highest configurable RF power to the lowest configurable RF power. The EUT graphical user interface was used to configure the power in step increments of 1.
3. All conducted power measurements were made using an RF average power meter in accordance with FCC KDB 789033 Section II.E.3.a) Method PM. Power was measured on both RF ports. The power was combined. This test has no limit. The test was performed to prove control of the RF output power.

Transmitter Power Control (continued)**Results: 5 MHz Channel / BPSK / Middle Channel / 5597 MHz**

Graphical Use Interface Power Setting	Measured Conducted Power H Port (dBm)	Measured Conducted Power V Port (dBm)	Combined Conducted Power (dBm)
17	12.7	14.1	16.5
16	11.8	13.3	15.6
15	10.7	12.3	14.6
14	9.6	11.2	13.5
13	8.7	10.3	12.6
12	7.7	9.3	11.6
11	6.7	8.3	10.6
10	5.7	7.2	9.5
9	4.6	6.4	8.6
8	3.6	5.3	7.5
7	2.6	4.3	6.5
6	1.7	3.5	5.7
5	0.7	2.6	4.8
4	-0.2	1.6	3.8
3	-1.3	0.6	2.8
2	-2.2	-0.4	1.8
1	-3.2	-1.3	0.9
0	-4.1	-2.3	-0.1
-1	-5.3	-2.6	-0.7
-2	-6.4	-3.6	-1.8
-3	-7.3	-4.6	-2.7
-4	-8.3	-5.6	-3.7
-5	-9.2	-6.4	-4.6
-6	-10.3	-7.4	-5.6
-7	-11.3	-8.3	-6.5
-8	-12.4	-9.3	-7.6
-9	-13.5	-10.3	-8.6
-10	-14.6	-11.3	-9.6
-11	-15.8	-12.3	-10.7
-12	-17.1	-13.4	-11.9

Transmitter Power Control (continued)**Test Equipment Used:**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M1435	Power Meter	Hewlett Packard	437B	3125U14631	24 Apr 2016	12
M1009	Power Meter	Hewlett Packard	437B	3125U13706	27 Jan 2016	12
M1175	Power Sensor	Hewlett Packard	8485A	2942A10299	11 Feb 2016	12
M1592	Power Sensor	Hewlett Packard	8487A	3318A02094	22 Sep 2016	12
A2142	Attenuator	AtlanTecRF	AN18-20	081120-23	Calibrated Before Use	N/A
A2527	Attenuator	AtlanTecRF	AN18W5-20	832828#2	Calibrated Before Use	N/A
A2139	Attenuator	AtlanTecRF	AN18-10	090918-04#1	Calibrated Before Use	N/A
A2140	Attenuator	AtlanTecRF	AN18-10	090918-14	Calibrated Before Use	N/A
G0608	Signal Generator	Rohde & Schwarz	SMIQ 06B	838341/033	01 Apr 2016	12
M1785	Thermohygrometer	JM Handelspunkt	30.5015.13	None stated	23 Apr 2016	12

6. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

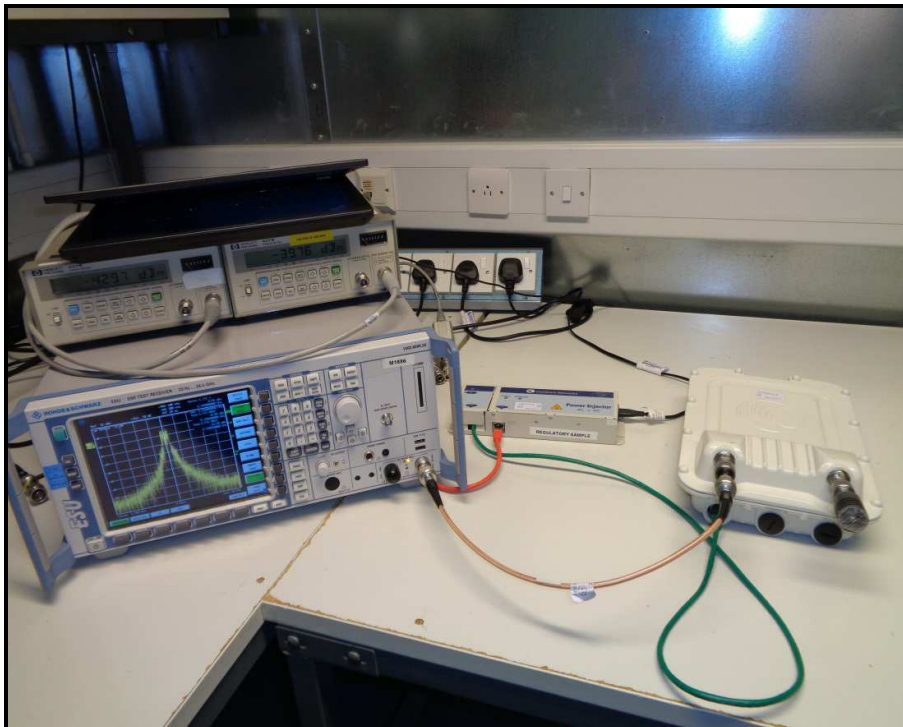
The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
AC Conducted Spurious Emissions	0.15 MHz to 30 MHz	95%	±4.69 dB
Conducted Output Power	5.25 GHz to 5.725 GHz	95%	±0.76 dB
Power Spectral Density	5.25 GHz to 5.725 GHz	95%	±1.13 dB
Occupied Bandwidth	5.25 GHz to 5.725 GHz	95%	±3.92 %
Radiated Spurious Emissions	30 MHz to 1 GHz	95%	±5.65 dB
Radiated Spurious Emissions	1 GHz to 40 GHz	95%	±2.94 dB
Conducted Spurious Emissions	5.395 GHz to 5.775 GHz	95%	±2.62 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

7. Report Revision History

Version Number	Revision Details		
	Page No(s)	Clause	Details
1.0	-	-	Initial Version
2.0	3 & 58 176	- -	Corrected font style and Table of Contents Corrected FCC reference in Test Summary table
3.0	183, 214 & 244 335	- -	Removed FCC references in Test Summary tables Inserted test setup photograph

Appendix 1. Conducted Test Setup Photograph

EUT configuration for conducted measurements

--- END OF REPORT---