

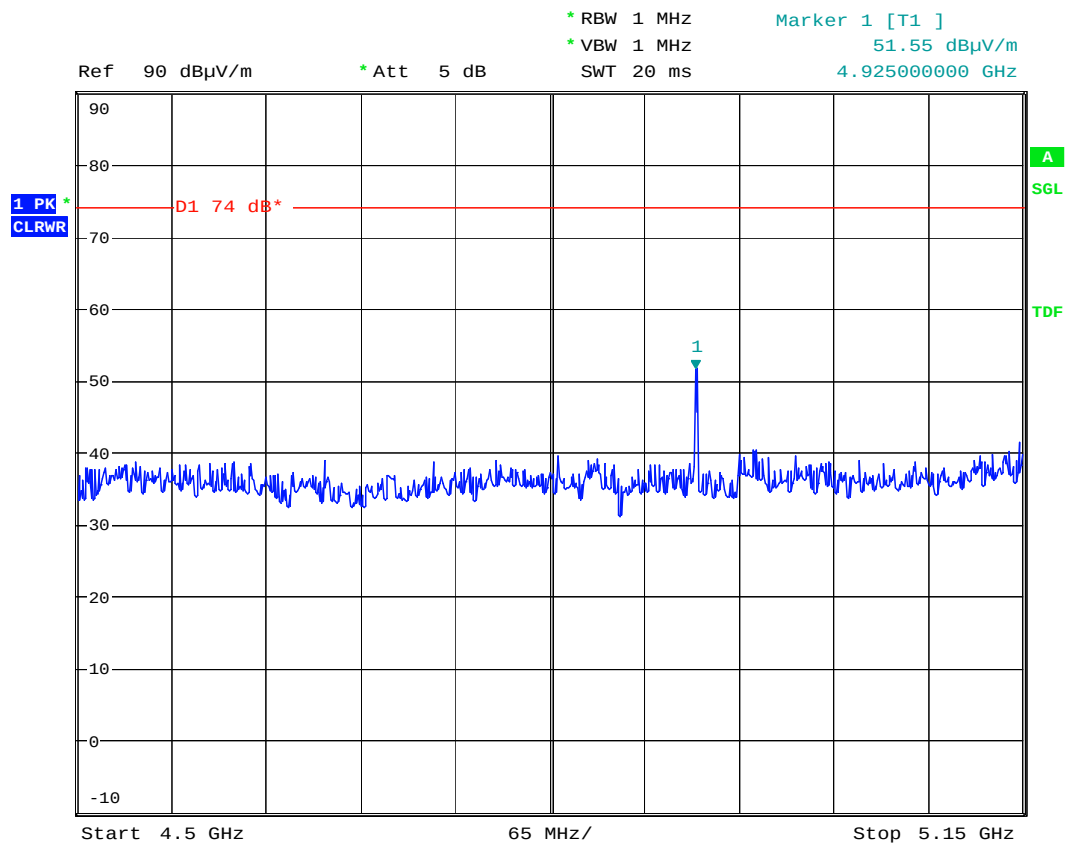
Radiated Emissions within Restricted Bands, continued

Restricted Band: 4.5 – 5.15 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 23dBi (Huber & Suhner, SPA 5600/9/23/0/V)

TX-channel: 5735MHz

Peak Limit: 74 dB μ V/m

Date: 24.SEP.2007 09:17:28

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

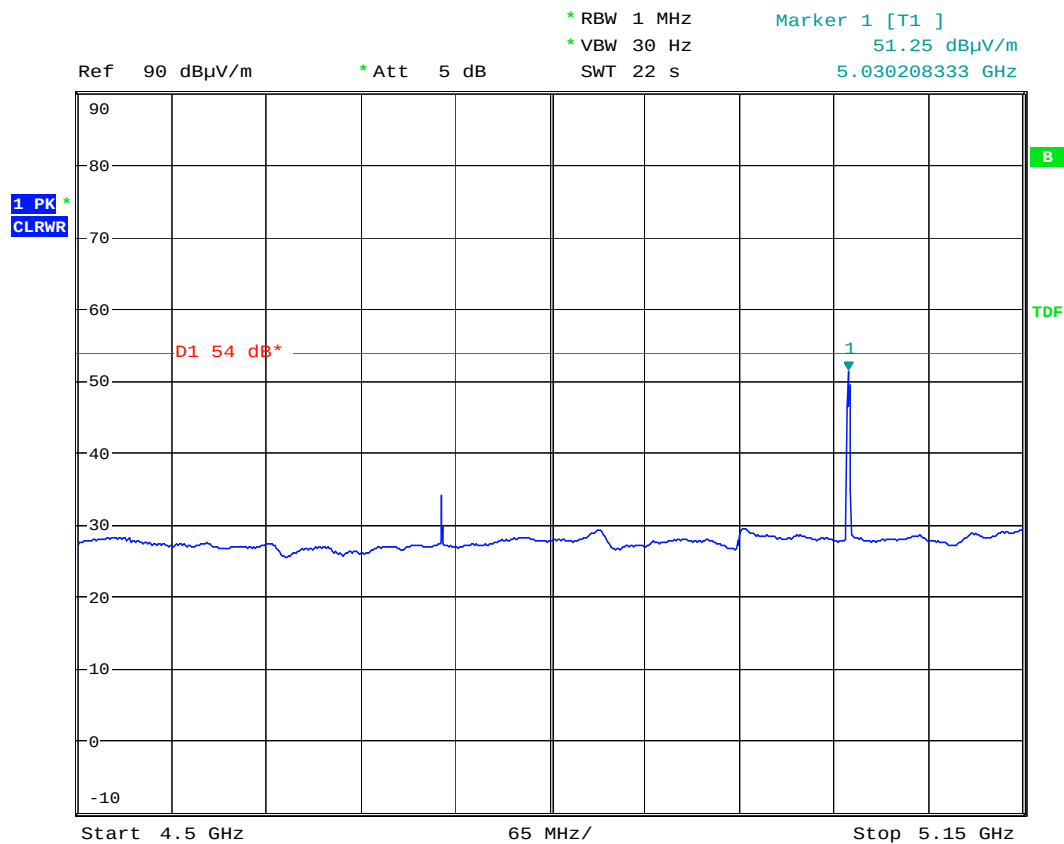
Radiated Emissions within Restricted Bands, continued

Restricted Band: 4.5 – 5.15 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 23dBi (Huber & Suhner, SPA 5600/9/23/0/V)

TX-channel: 5840MHz

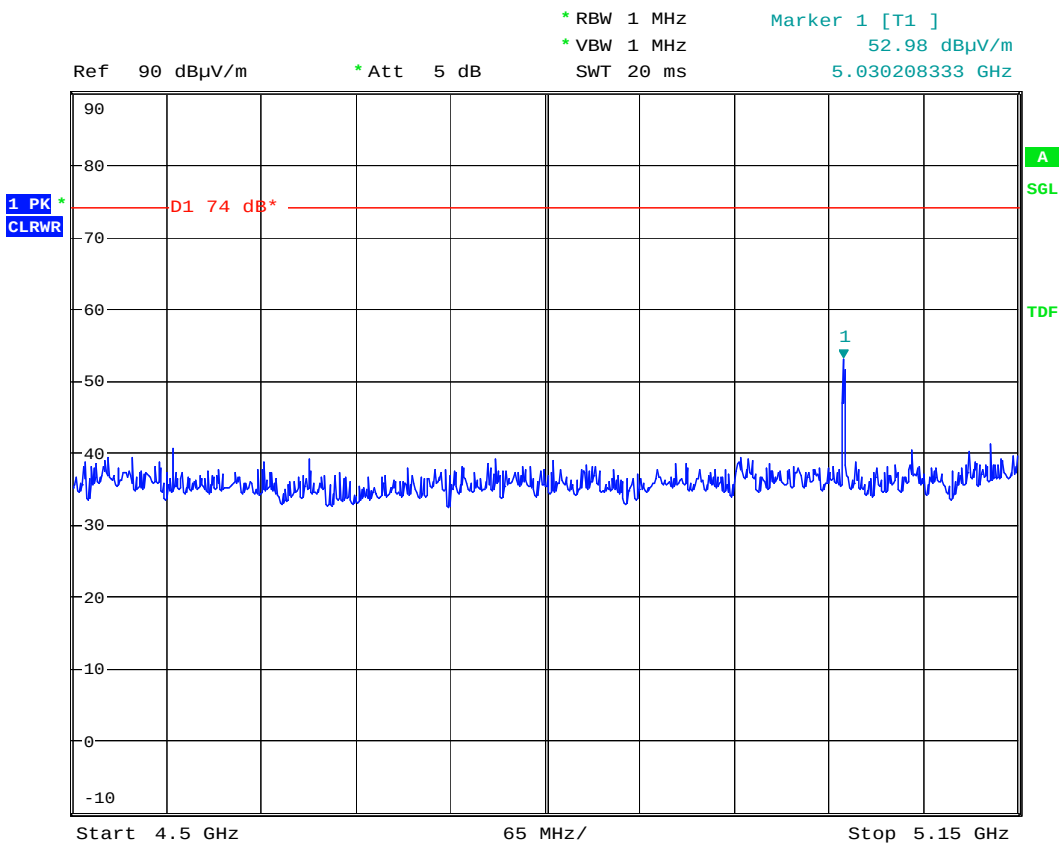
Average Limit: 54 dB μ V/m

Date: 24.SEP.2007 09:22:30

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

Radiated Emissions within Restricted Bands, continued

Restricted Band: 4.5 – 5.15 GHz
TX Channel Bandwidth: 10 MHz
Antenna Gain: 23dBi (Huber & Suhner, SPA 5600/9/23/0/V)
TX-channel: 5840MHz
Peak Limit: 74 dBµV/m



Date: 24.SEP.2007 09:23:06

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

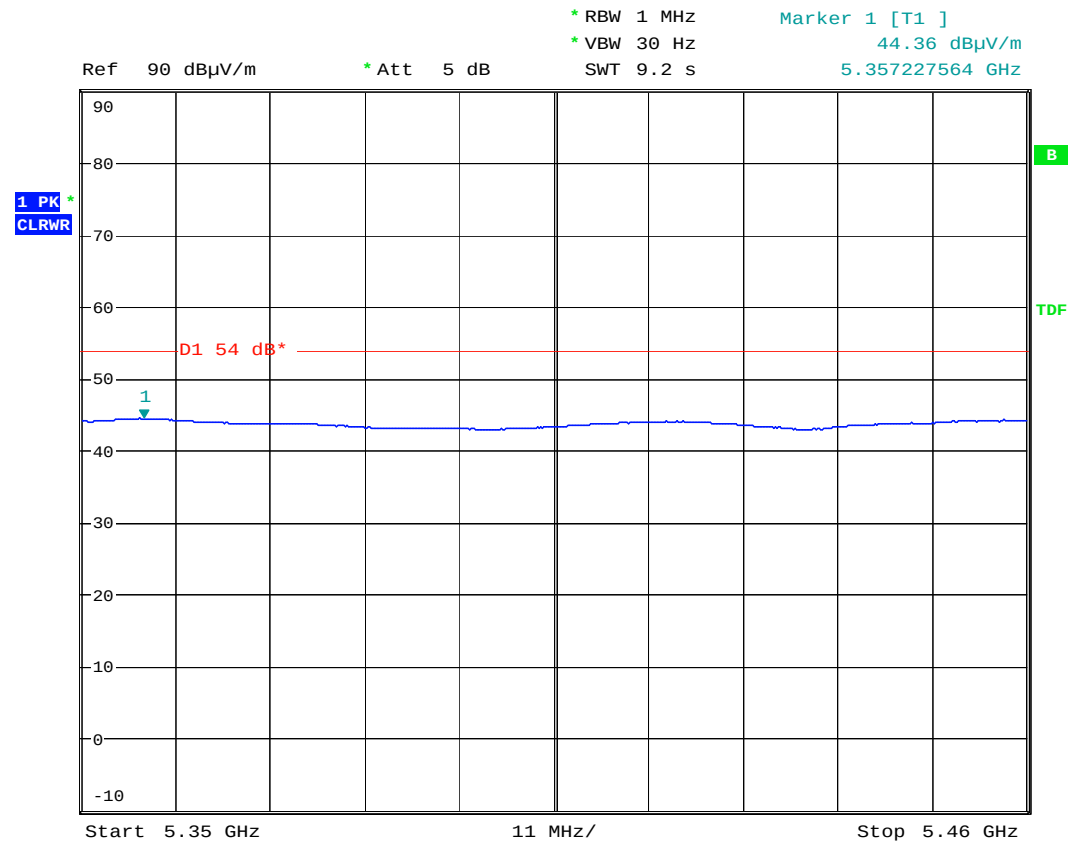
Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 23dBi (Huber & Suhner, SPA 5600/9/23/0/V)

TX-channel: 5735MHz

Average Limit: 54 dB μ V/m

Date: 23.SEP.2007 21:15:55

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

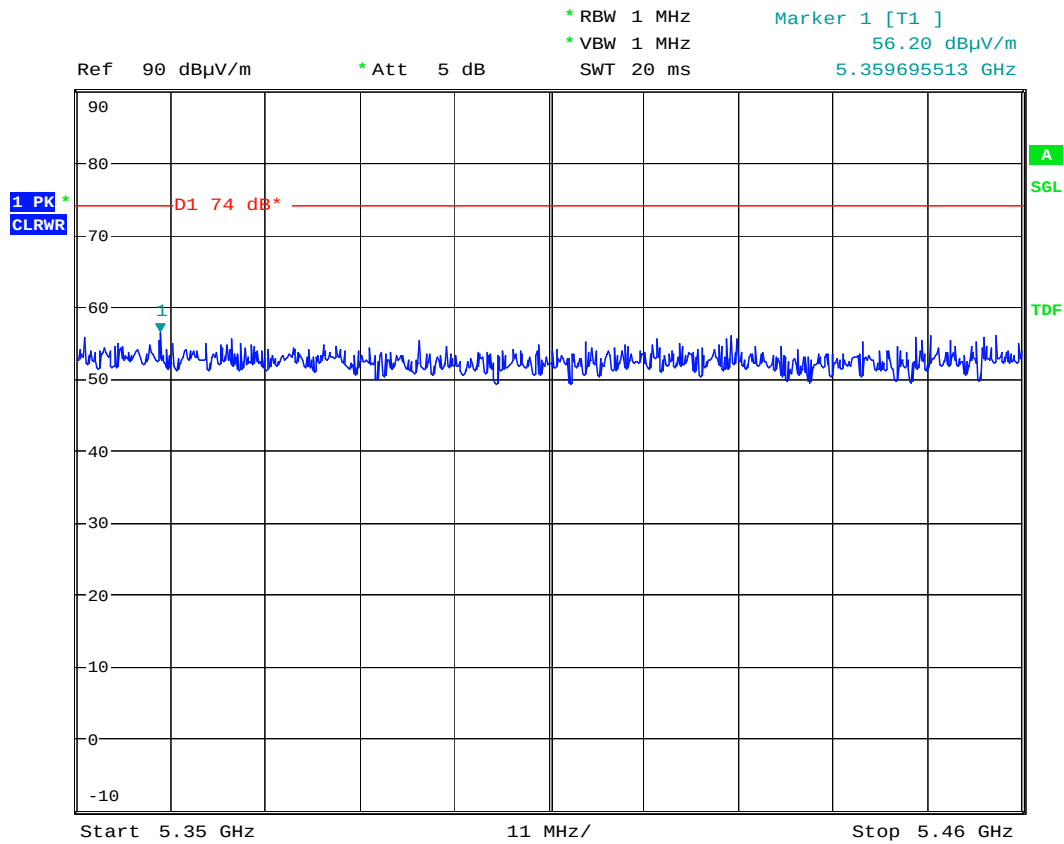
Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 23dBi (Huber & Suhner, SPA 5600/9/23/0/V)

TX-channel: 5735MHz

Peak Limit: 74 dB μ V/m

Date: 23.SEP.2007 21:17:29

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

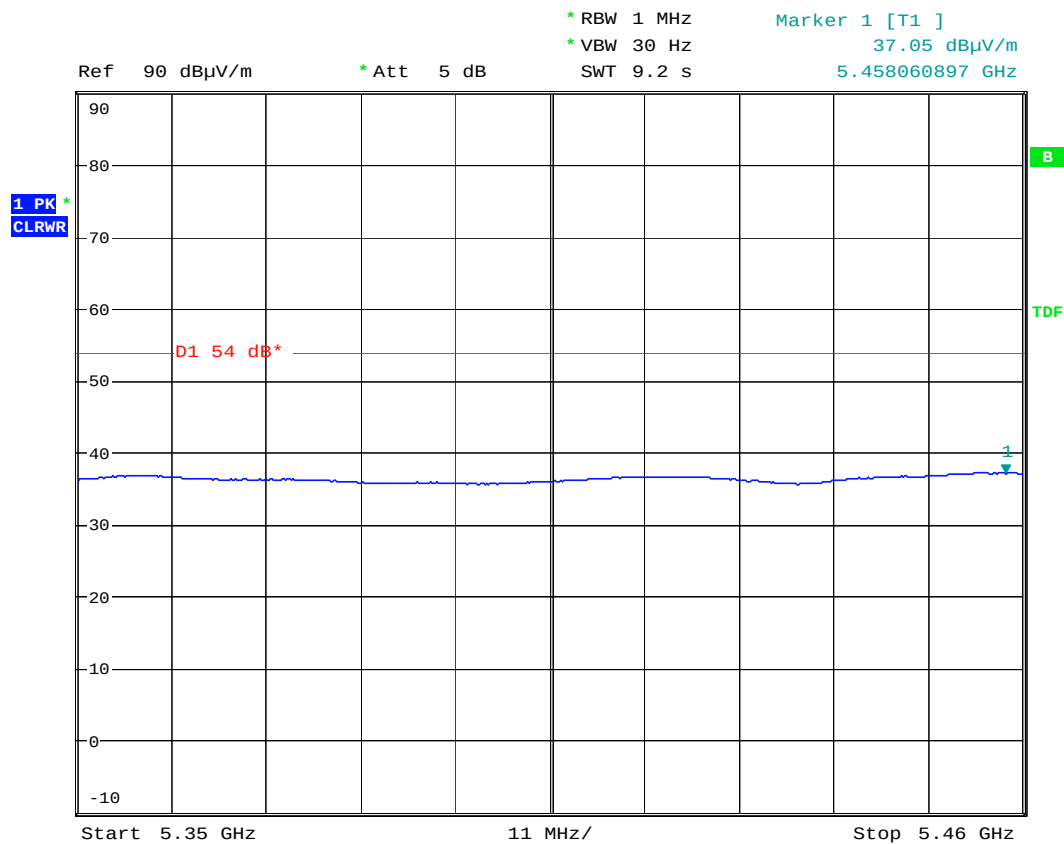
Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 23dBi (Huber & Suhner, SPA 5600/9/23/0/V)

TX-channel: 5840MHz

Average Limit: 54 dB μ V/m

Date: 23.SEP.2007 21:22:43

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

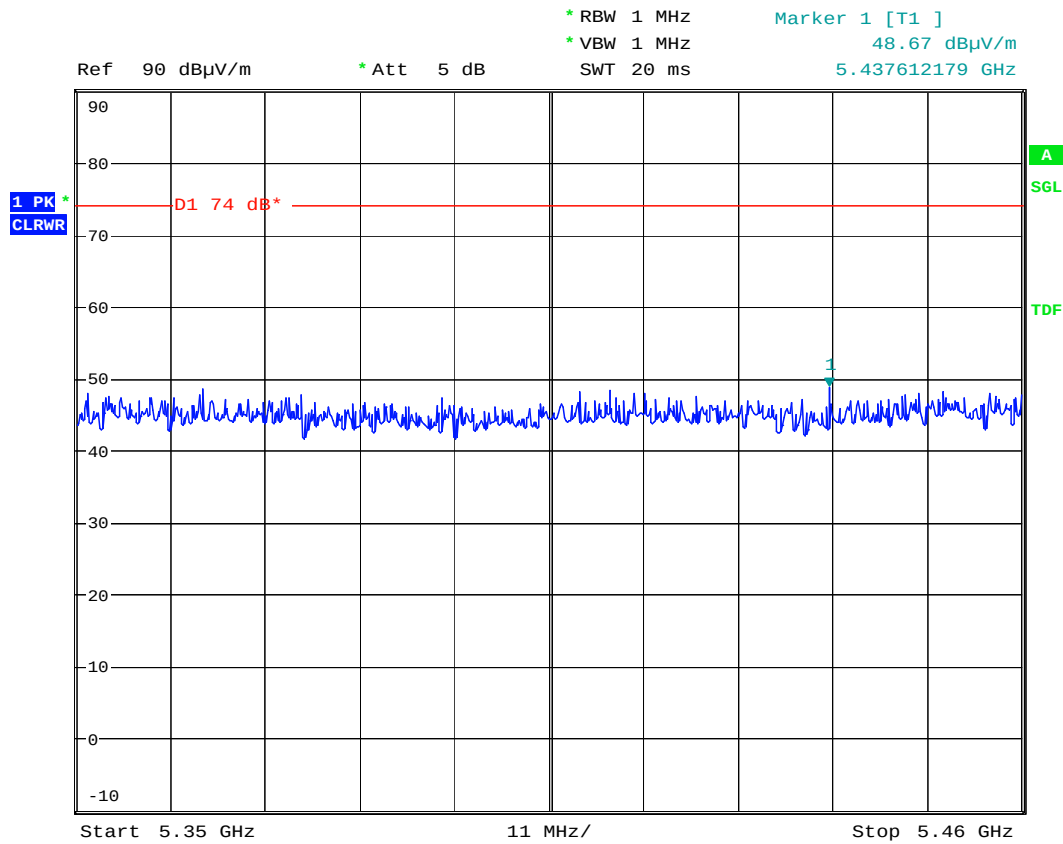
Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 23dBi (Huber & Suhner, SPA 5600/9/23/0/V)

TX-channel: 5840MHz

Peak Limit: 74 dB μ V/m

Date: 23.SEP.2007 21:21:46

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

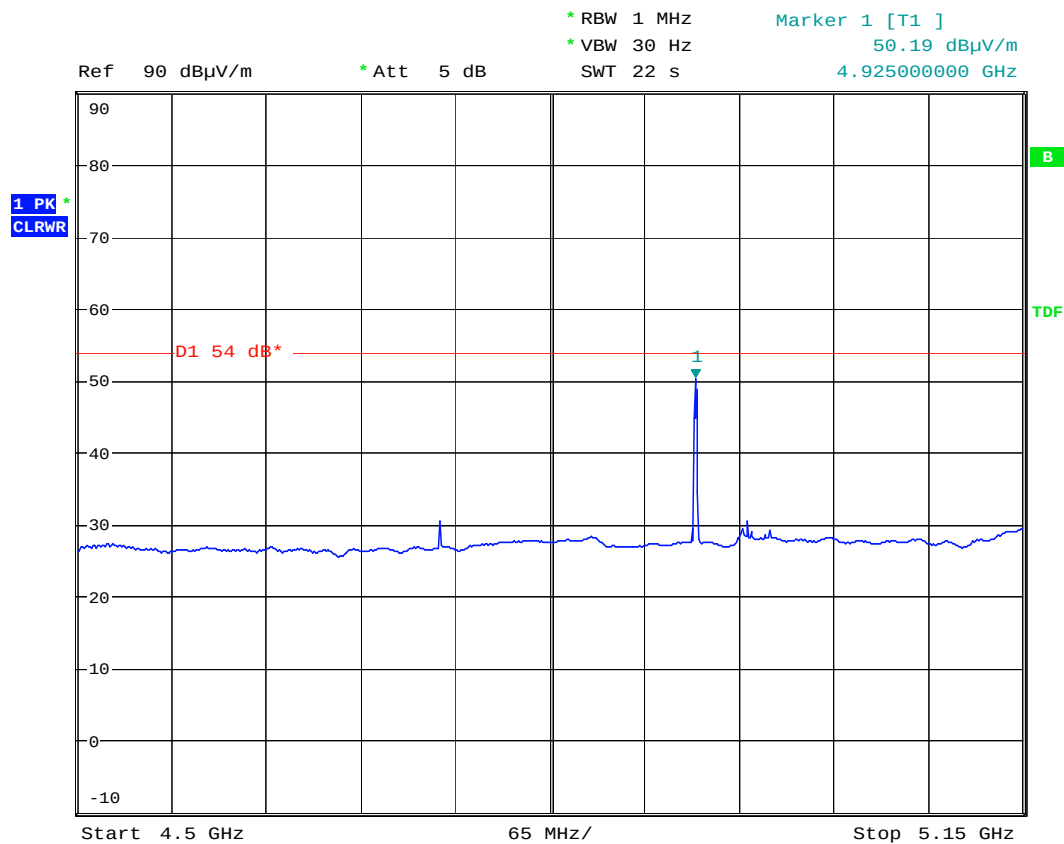
Radiated Emissions within Restricted Bands, continued

Restricted Band: 4.5 – 5.15 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 28dBi (Wireless Edge, MT-486001)

TX-channel: 5735MHz

Average Limit: 54 dB μ V/m

Date: 23.SEP.2007 20:14:10

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

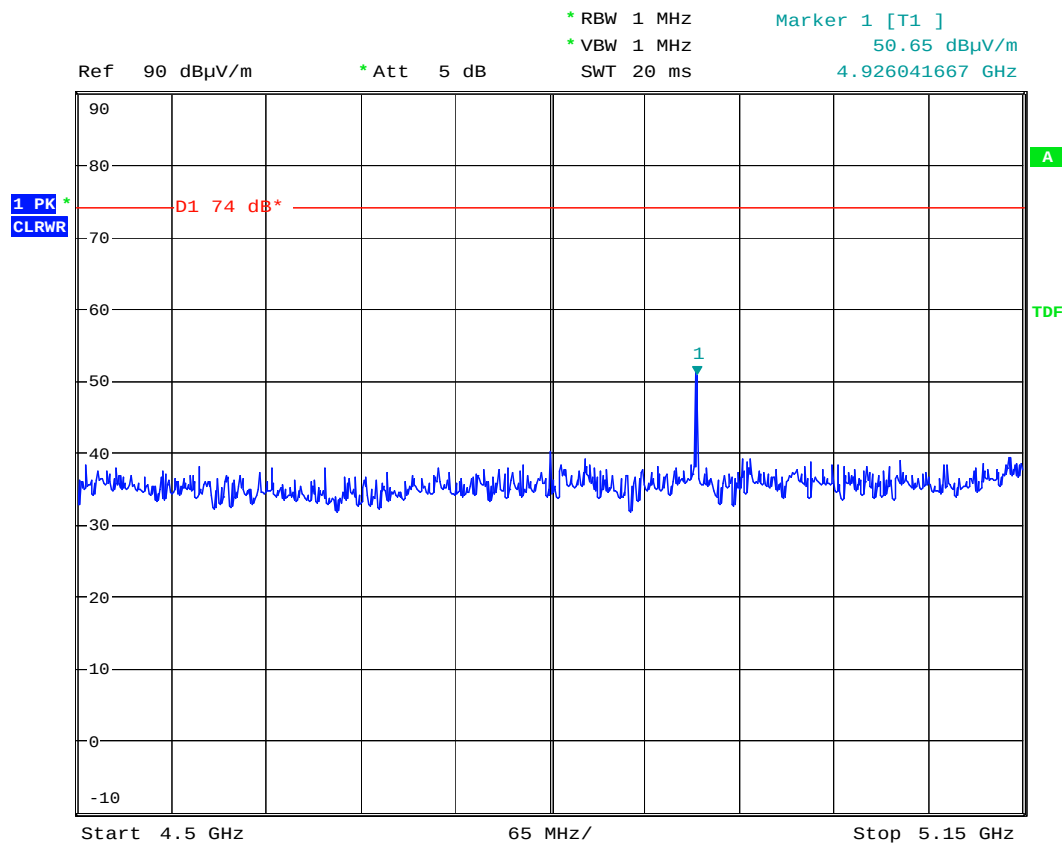
Radiated Emissions within Restricted Bands, continued

Restricted Band: 4.5 – 5.15 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 28dBi (Wireless Edge, MT-486001)

TX-channel: 5735MHz

Peak Limit: 74 dB μ V/m

Date: 23.SEP.2007 20:15:13

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

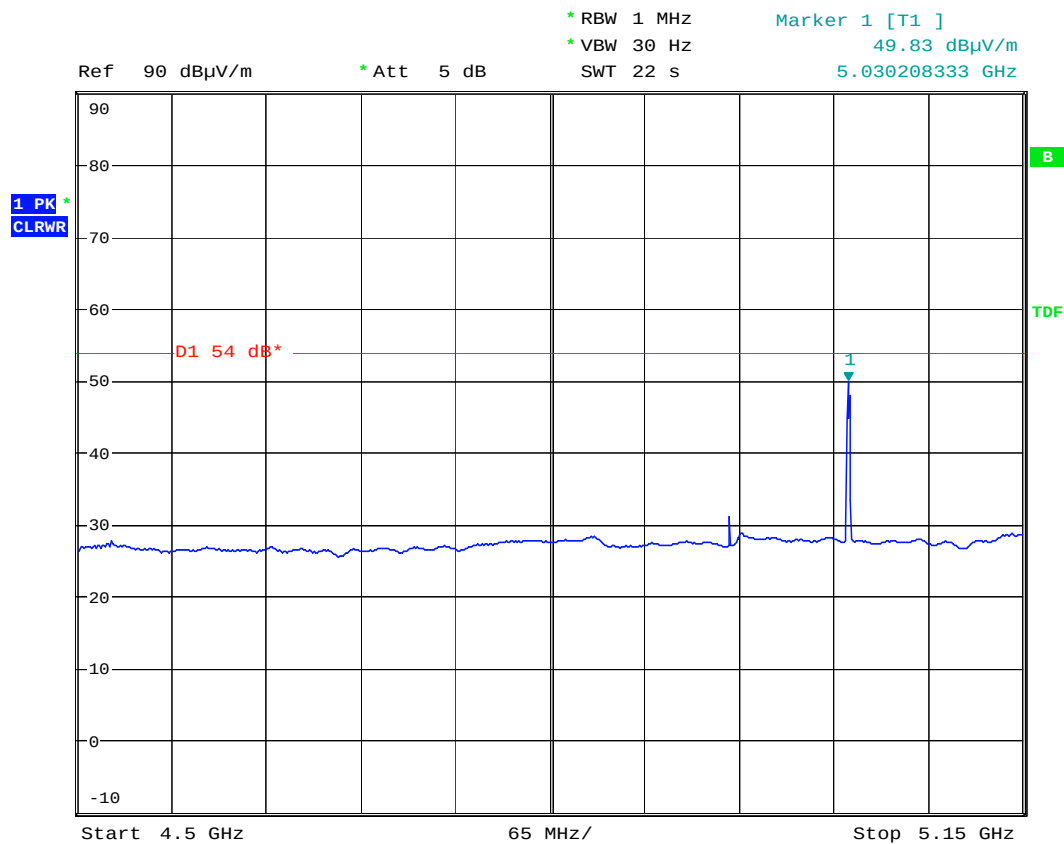
Radiated Emissions within Restricted Bands, continued

Restricted Band: 4.5 – 5.15 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 28dBi (Wireless Edge, MT-486001)

TX-channel: 5840MHz

Average Limit: 54 dB μ V/m

Date: 23.SEP.2007 20:26:49

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

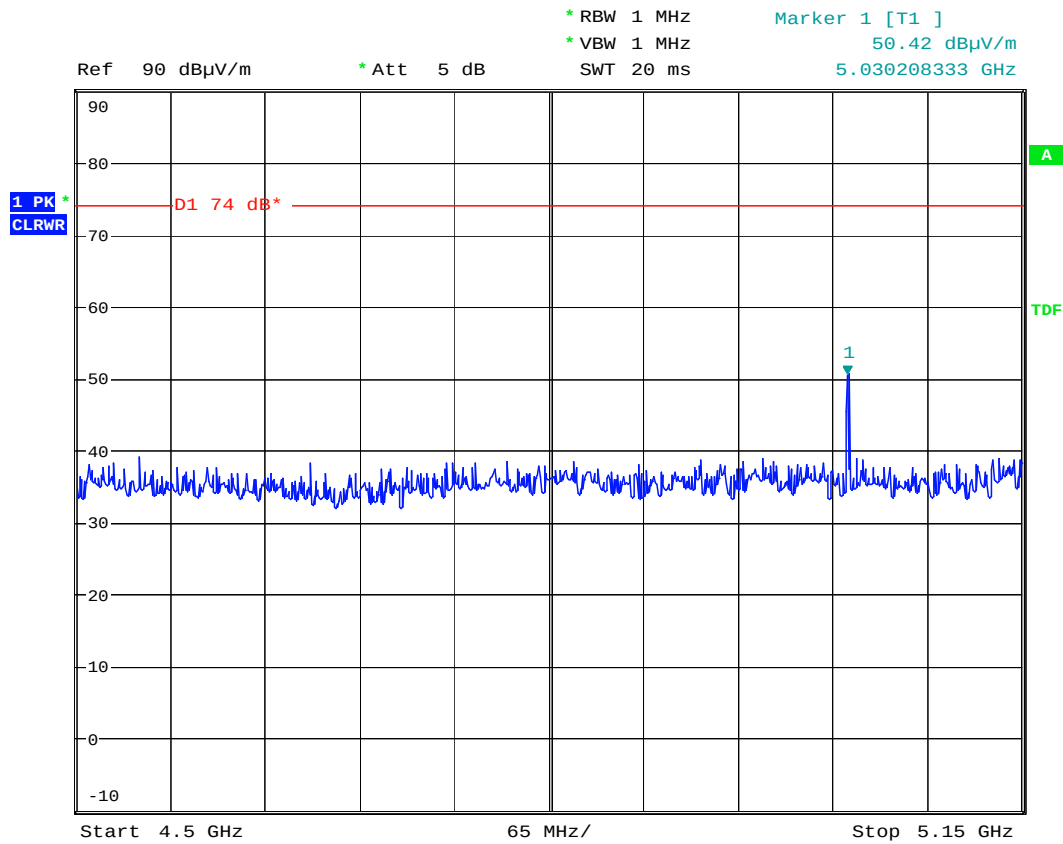
Radiated Emissions within Restricted Bands, continued

Restricted Band: 4.5 – 5.15 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 28dBi (Wireless Edge, MT-486001)

TX-channel: 5840MHz

Peak Limit: 74 dB μ V/m

Date: 23.SEP.2007 20:27:45

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

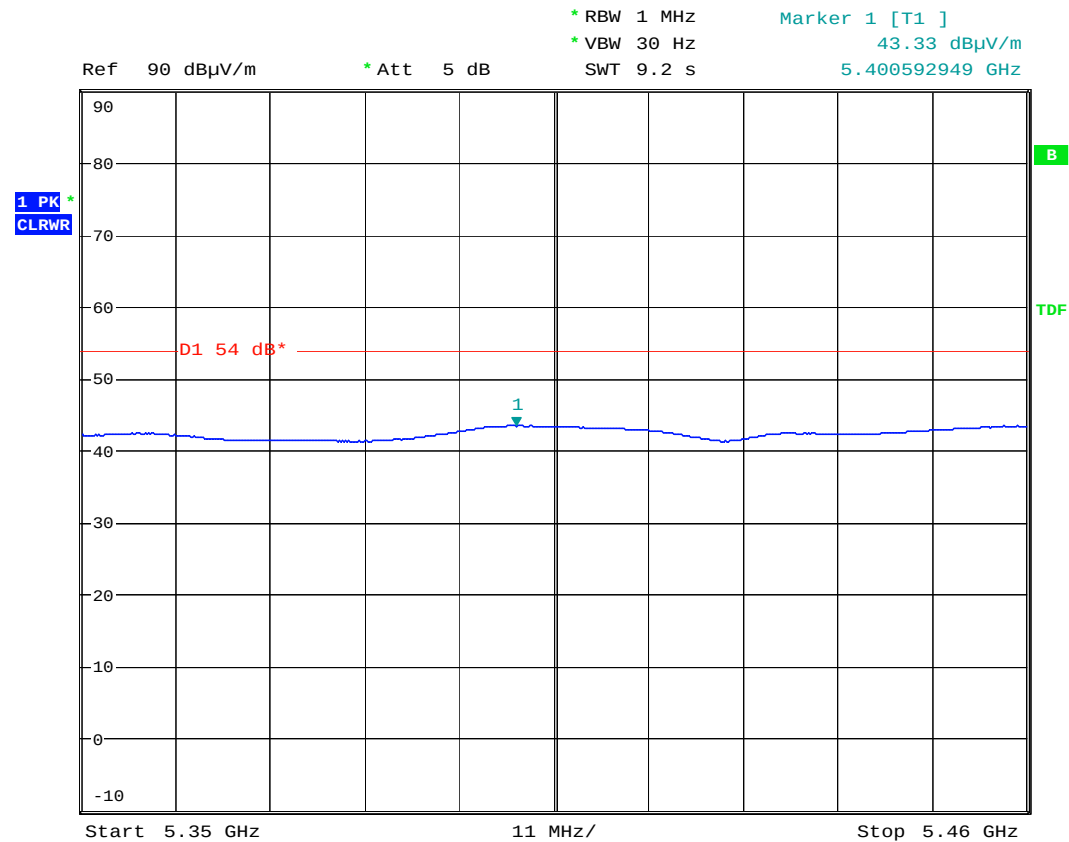
Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 28dBi (Wireless Edge, MT-486001)

TX-channel: 5735MHz

Average Limit: 54 dB μ V/m

Date: 23.SEP.2007 20:17:02

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

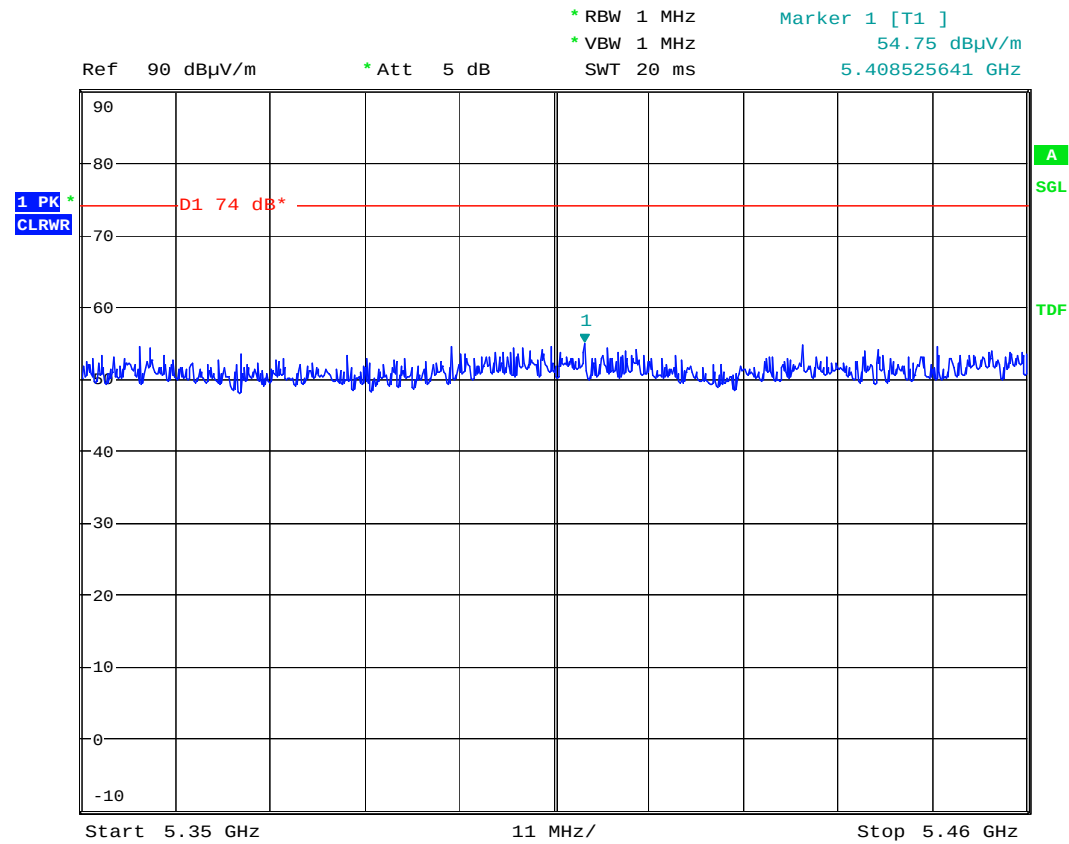
Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 28dBi (Wireless Edge, MT-486001)

TX-channel: 5735MHz

Peak Limit: 74 dB μ V/m

Date: 23.SEP.2007 20:18:38

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

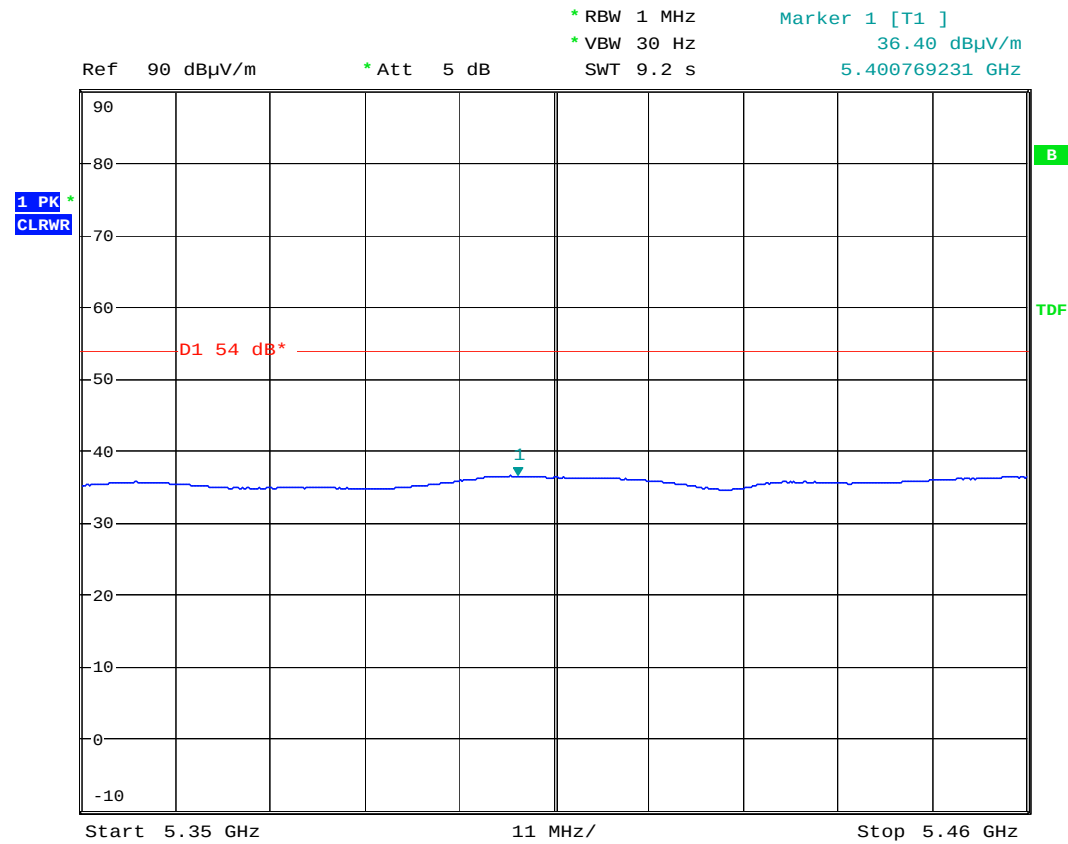
Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 28dBi (Wireless Edge, MT-486001)

TX-channel: 5840MHz

Average Limit: 54 dB μ V/m

Date: 23.SEP.2007 20:23:17

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

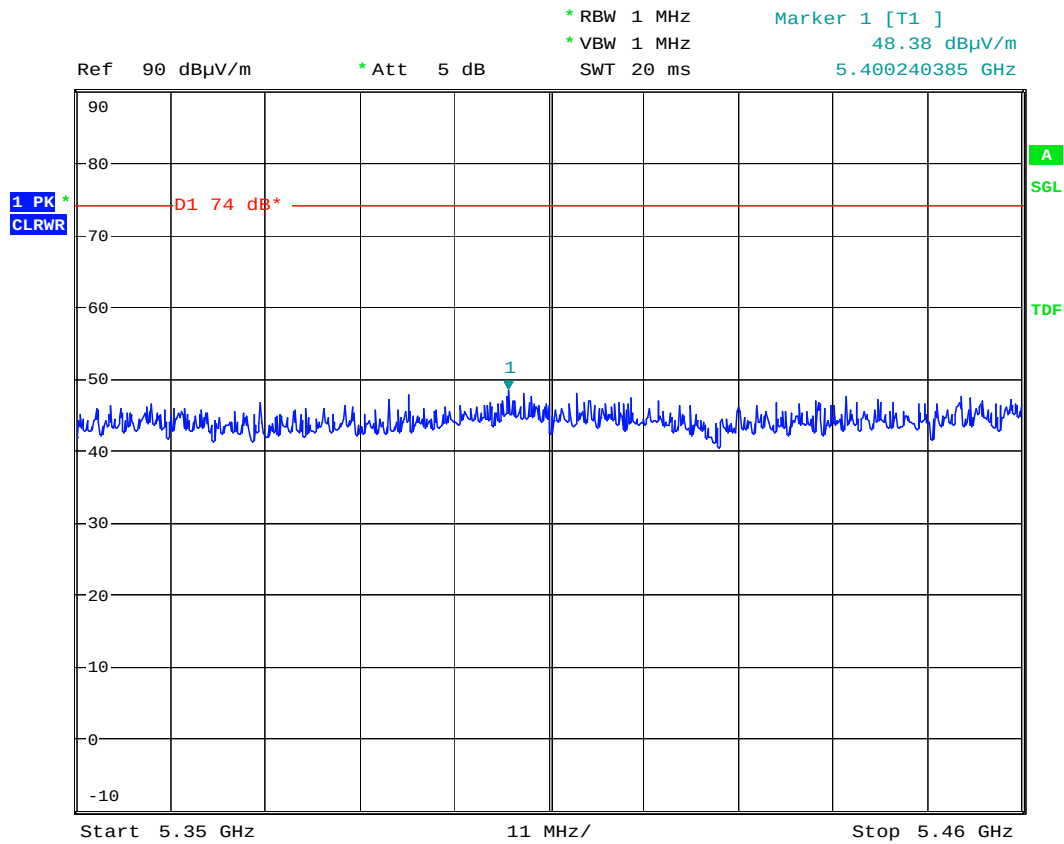
Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 28dBi (Wireless Edge, MT-486001)

TX-channel: 5840MHz

Peak Limit: 74 dB μ V/m

Date: 23.SEP.2007 20:22:18

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

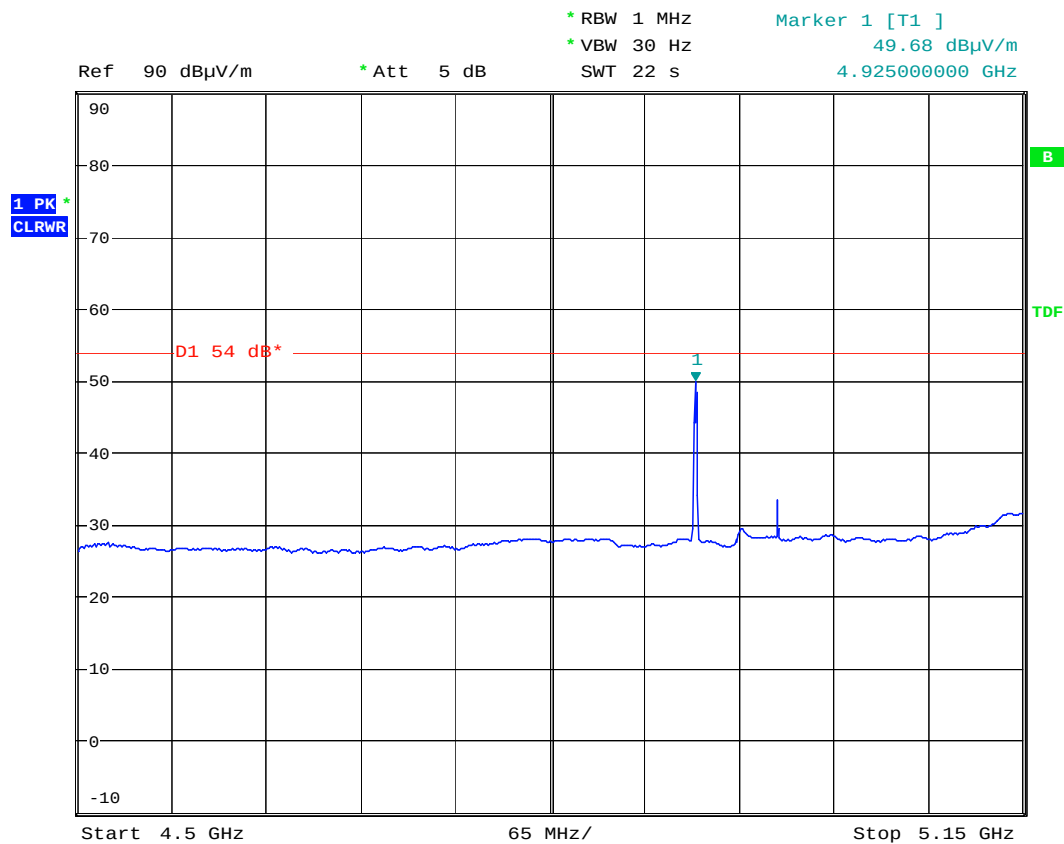
Radiated Emissions within Restricted Bands, continued

Restricted Band: 4.5 – 5.15 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 30dBi (Andrew, P2F-52-NEA)

TX-channel: 5735MHz

Average Limit: 54 dB μ V/m

Date: 23.SEP.2007 18:47:29

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

Radiated Emissions within Restricted Bands, continued

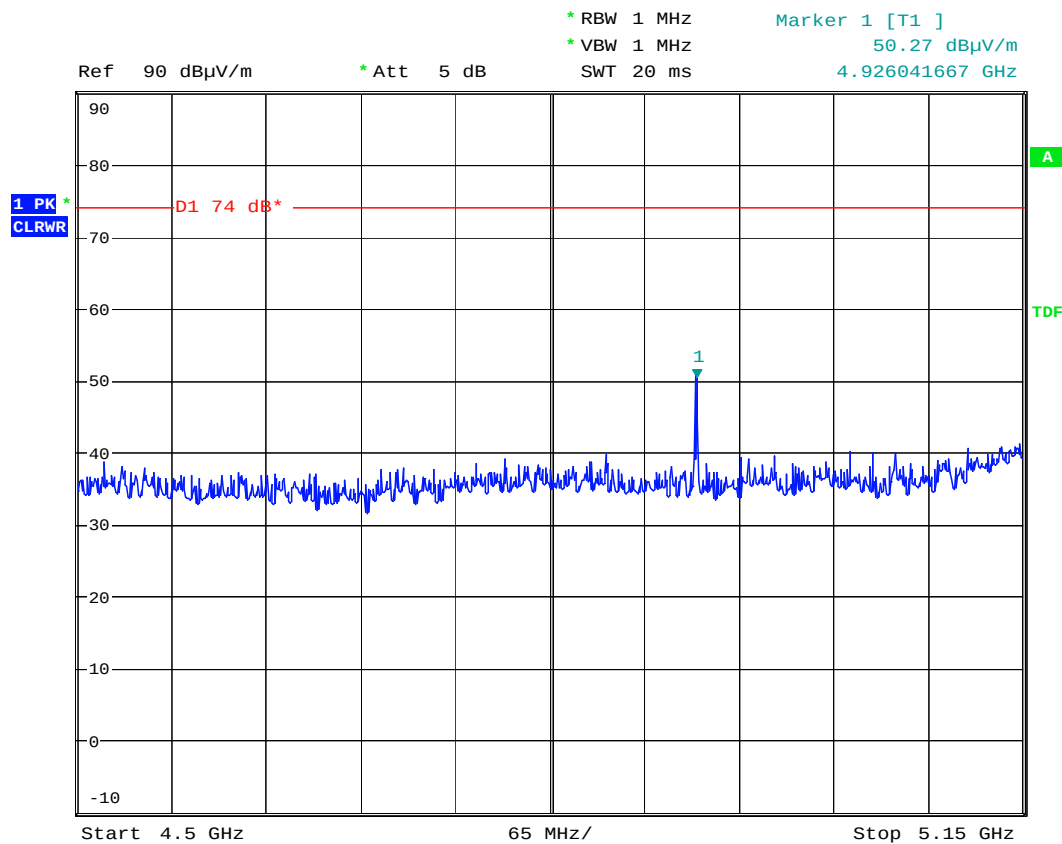
Restricted Band: 4.5 – 5.15 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 30dBi (Andrew, P2F-52-NEA)

TX-channel: 5735MHz

Peak Limit: 74 dBμV/m



Date: 23.SEP.2007 18:46:02

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

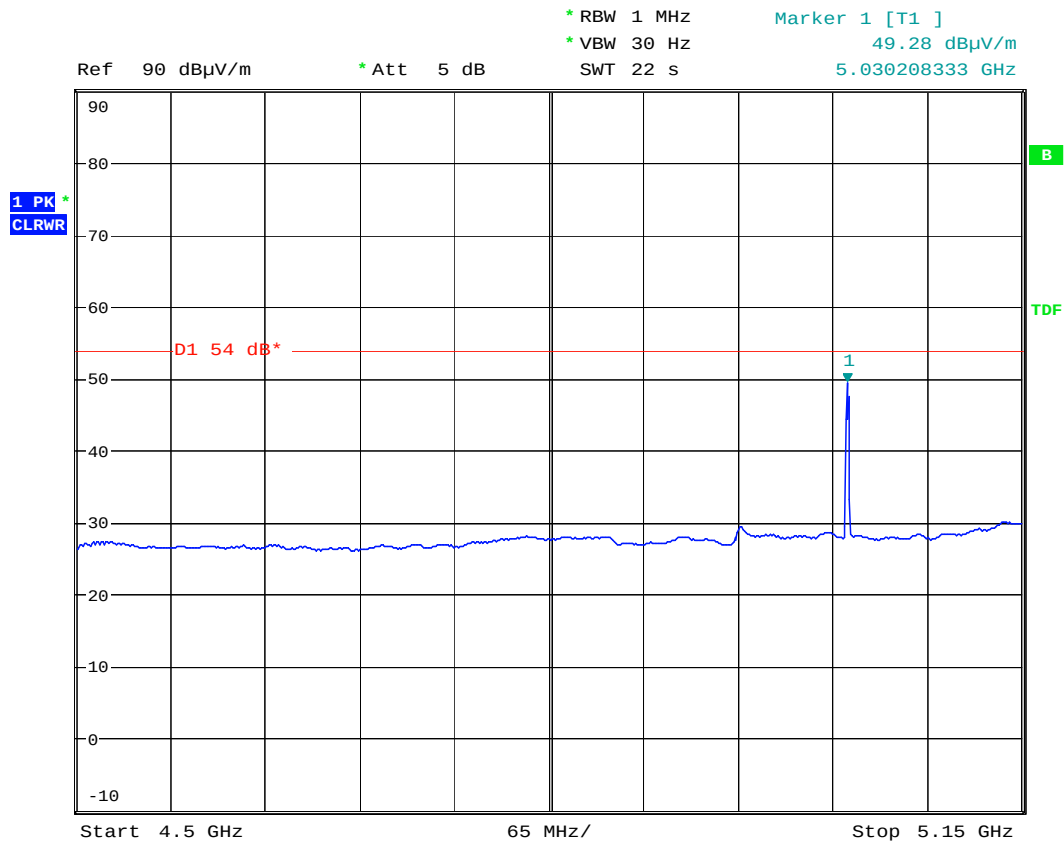
Radiated Emissions within Restricted Bands, continued

Restricted Band: 4.5 – 5.15 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 30dBi (Andrew, P2F-52-NEA)

TX-channel: 5840MHz

Average Limit: 54 dB μ V/m

Date: 23.SEP.2007 18:58:12

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

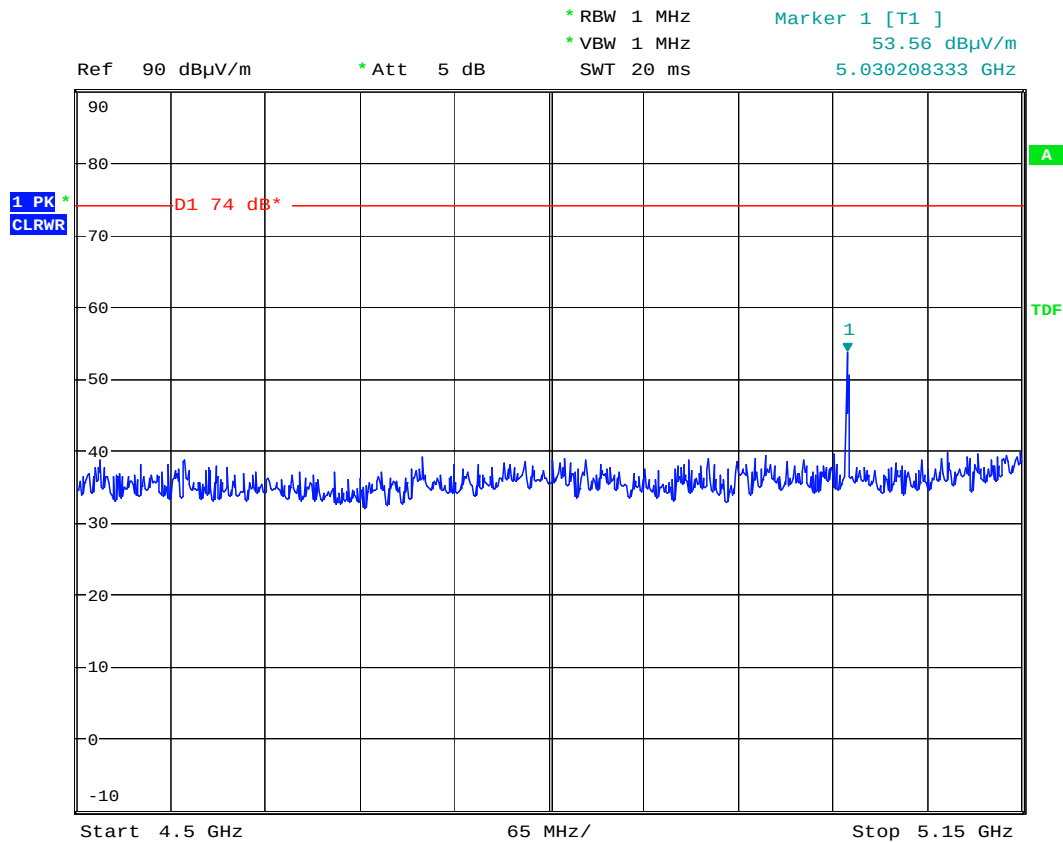
Radiated Emissions within Restricted Bands, continued

Restricted Band: 4.5 – 5.15 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 30dBi (Andrew, P2F-52-NEA)

TX-channel: 5840MHz

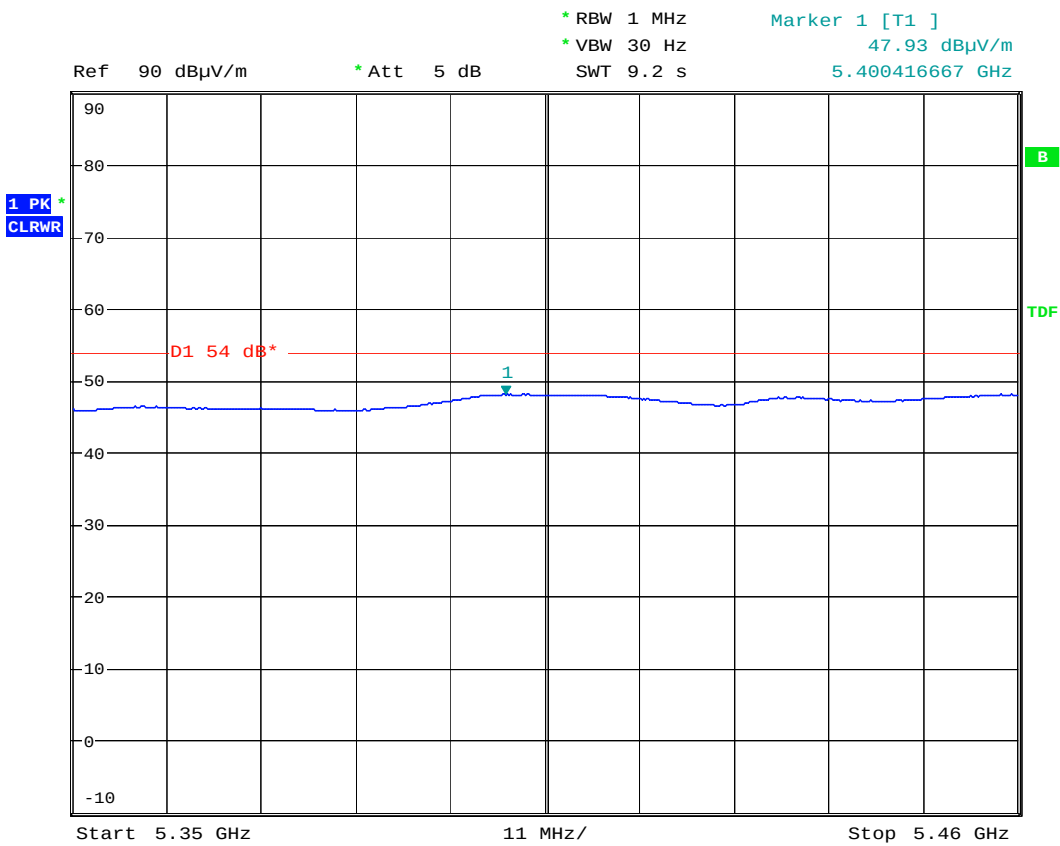
Peak Limit: 74 dB μ V/m

Date: 23.SEP.2007 18:55:25

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz
TX Channel Bandwidth: 10 MHz
Antenna Gain: 30dBi (Andrew, P2F-52-NEA)
TX-channel: 5735MHz
Average Limit: 54 dBμV/m

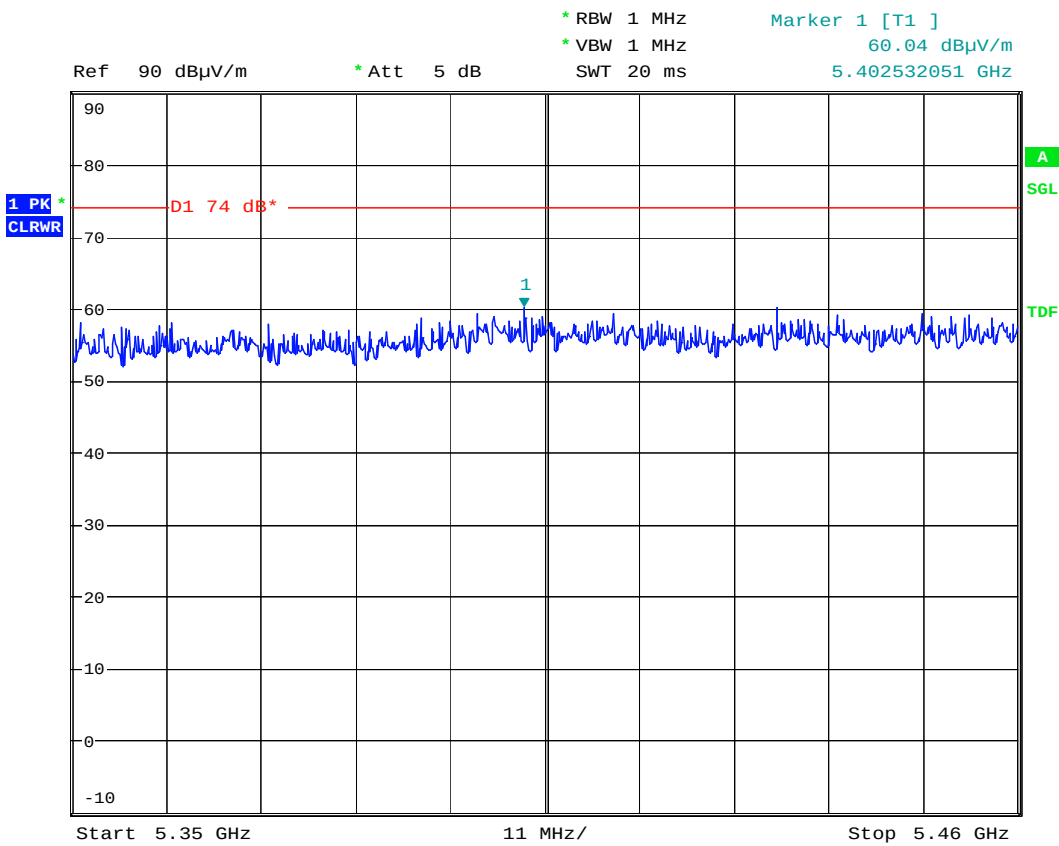


Date: 23.SEP.2007 18:49:47

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz
TX Channel Bandwidth: 10 MHz
Antenna Gain: 30dBi (Andrew, P2F-52-NEA)
TX-channel: 5735MHz
Peak Limit: 74 dBµV/m

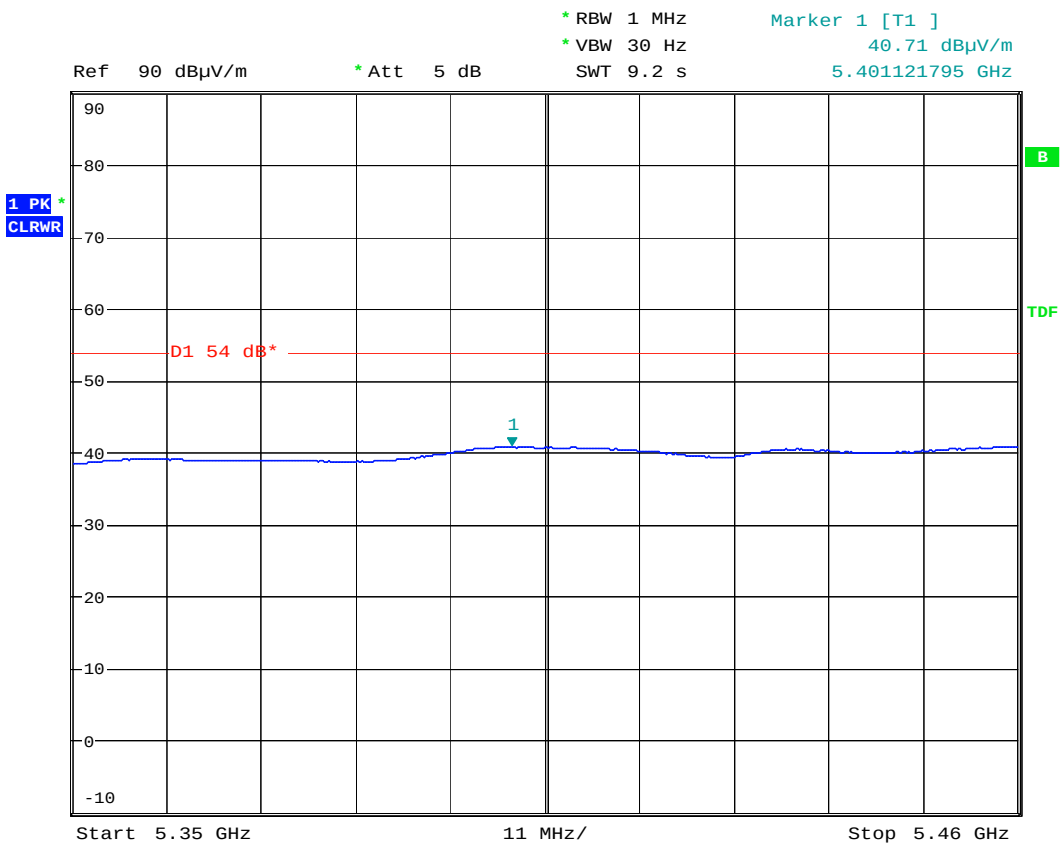


Date: 23.SEP.2007 18:51:08

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz
TX Channel Bandwidth: 10 MHz
Antenna Gain: 30dBi (Andrew, P2F-52-NEA)
TX-channel: 5840MHz
Average Limit: 54 dBµV/m



Date: 23.SEP.2007 18:57:15

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

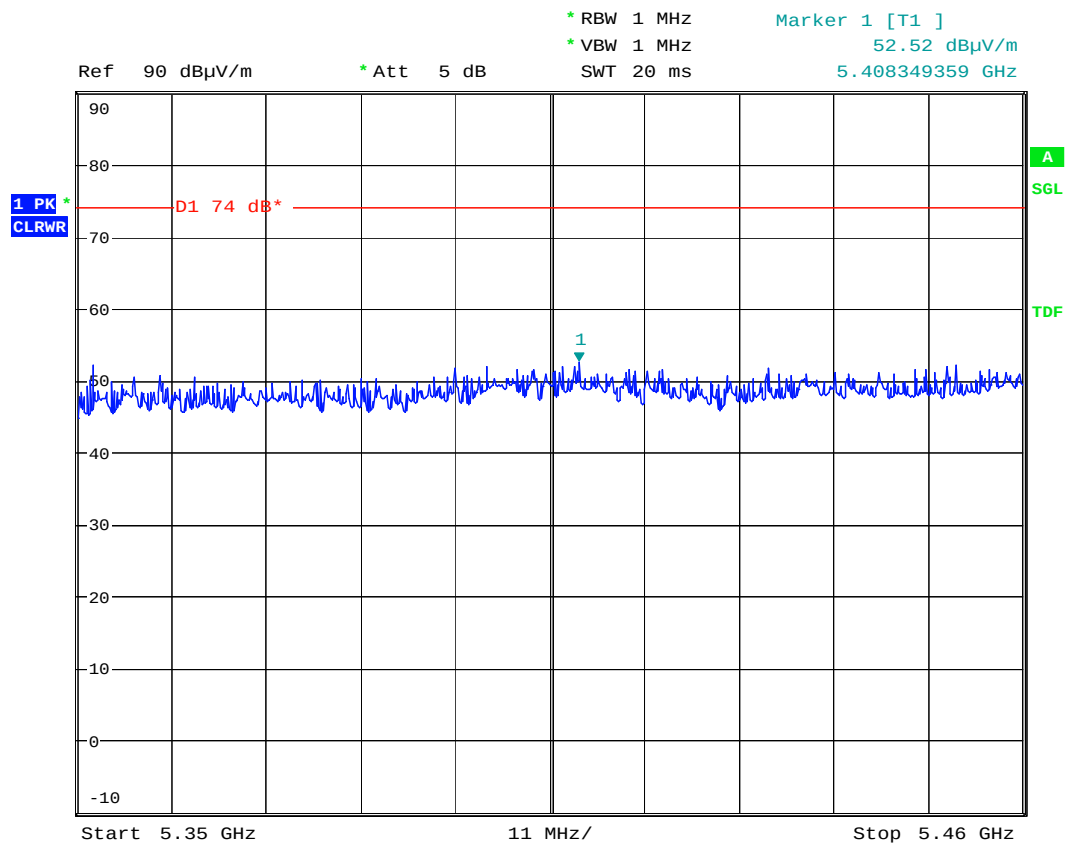
Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz

TX Channel Bandwidth: 10 MHz

Antenna Gain: 30dBi (Andrew, P2F-52-NEA)

TX-channel: 5840MHz

Peak Limit: 74 dB μ V/m

Date: 23.SEP.2007 18:54:16

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

Radiated Emissions within Restricted Bands, continued

Note: Plots of emissions in restricted bands for channel bandwidths 10 MHz and 20 MHz (see above) show no change in emission level or distribution due to change of modulation (i.e. channel bandwidth). Therefore it was judged that plots of emissions from the EUT connected to the highest gain antenna (30dBi) and to the lowest gain antenna (10dBi) were sufficient to show compliance with emission limits for the 5 MHz channel bandwidth.

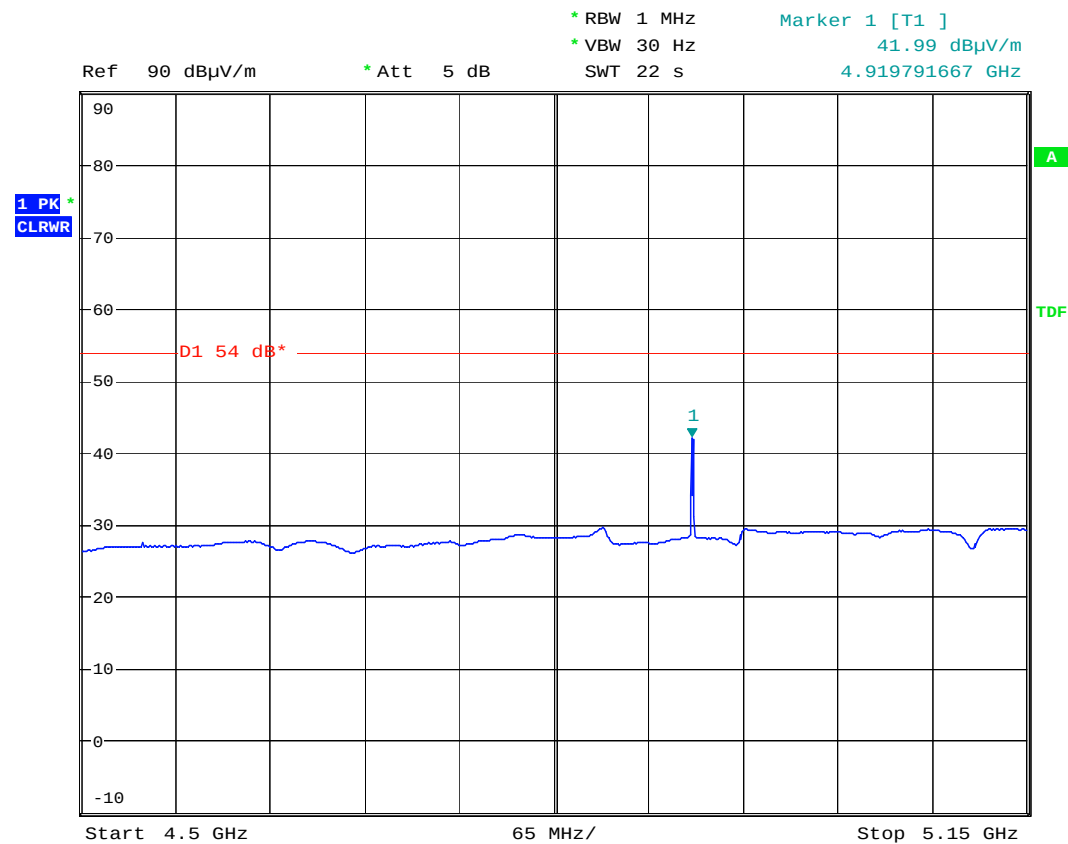
Restricted Band: 4.5 – 5.15 GHz

TX Channel Bandwidth: 5 MHz

Antenna Gain: 10dBi (Wireless Edge, MT-482003/N)

TX-channel: 5730MHz

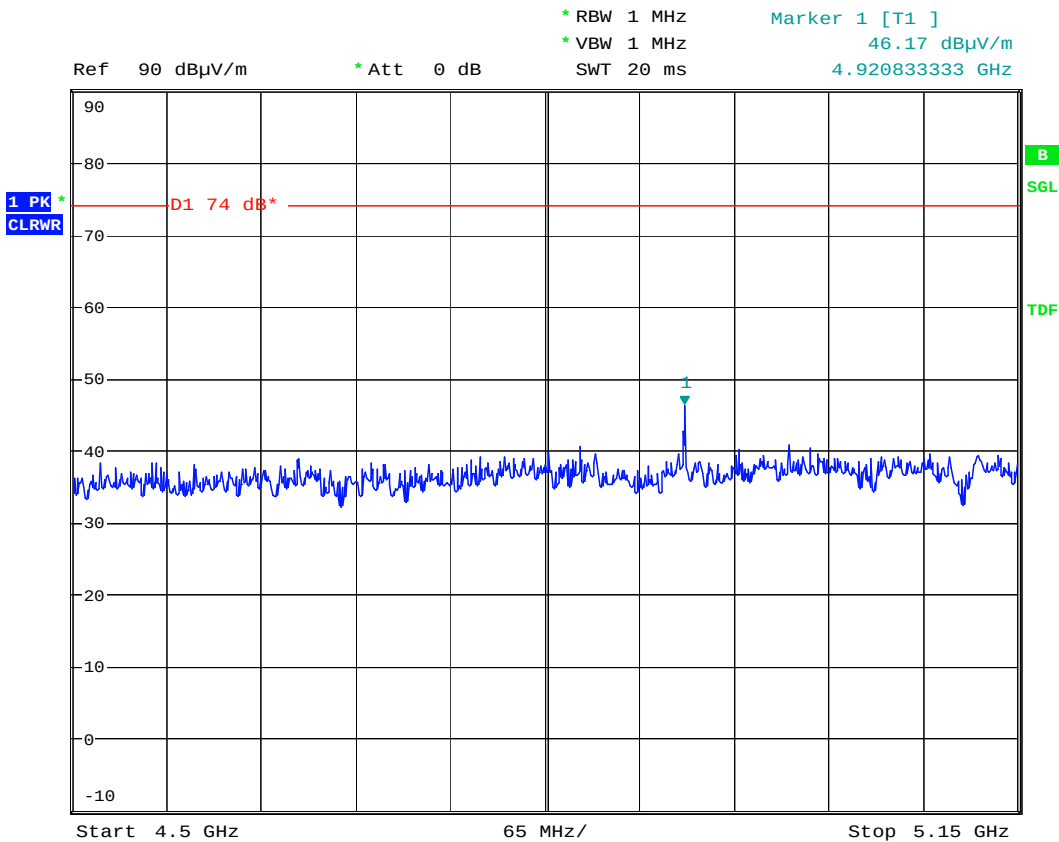
Average Limit: 54 dB μ V/m



Date: 17.OCT.2007 17:11:14

Radiated Emissions within Restricted Bands, continued

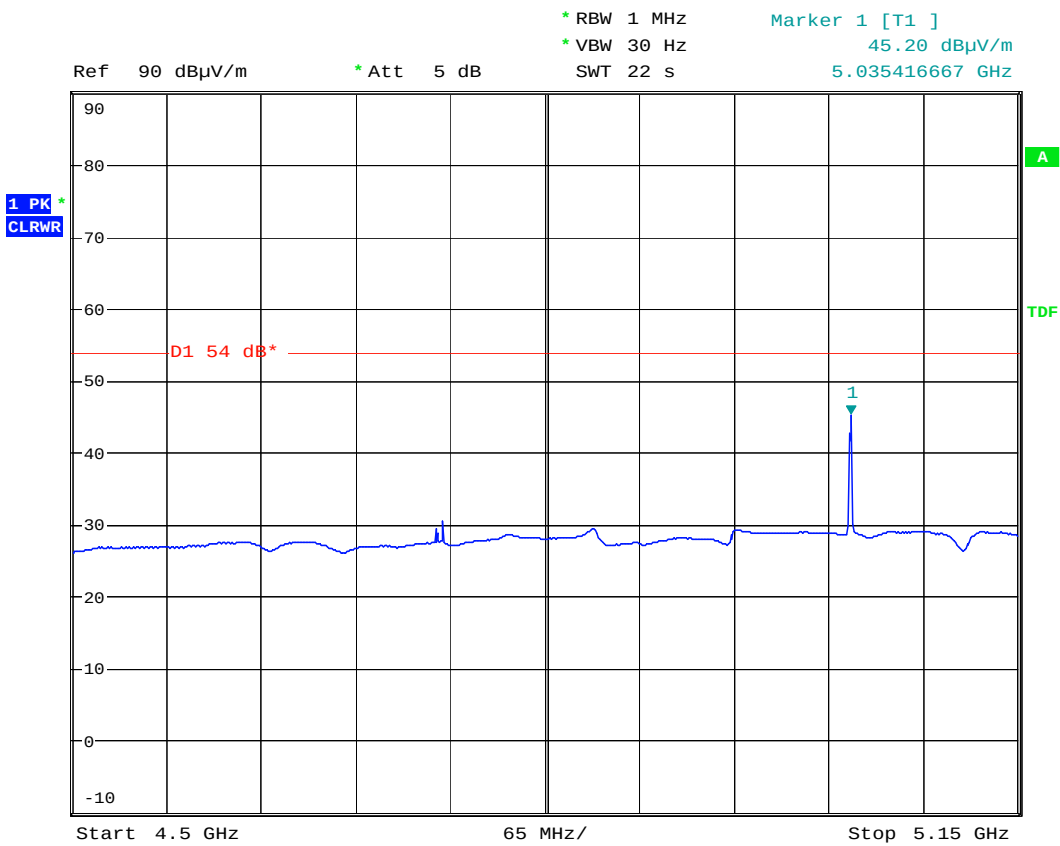
Restricted Band: 4.5 – 5.15 GHz
TX Channel Bandwidth: 5 MHz
Antenna Gain: 10dBi (Wireless Edge, MT-482003/N)
TX-channel: 5730MHz
Peak Limit: 74 dBµV/m



Date: 17.OCT.2007 17:12:23

Radiated Emissions within Restricted Bands, continued

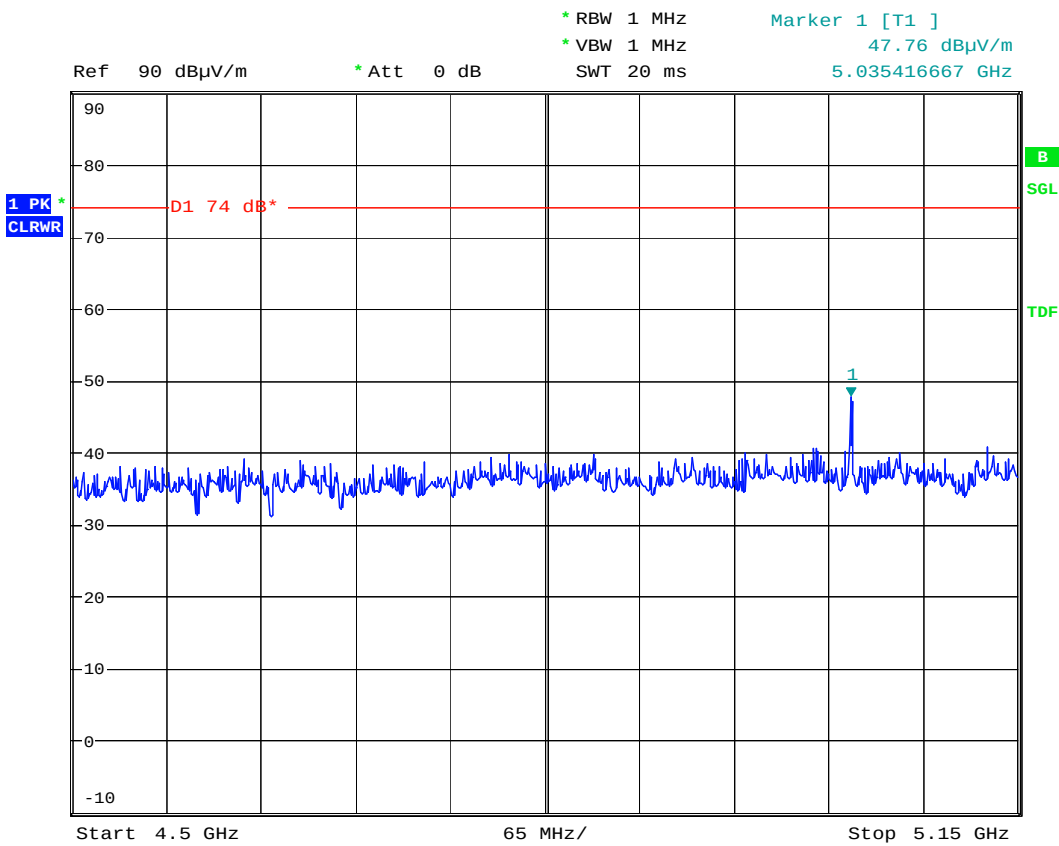
Restricted Band: 4.5 – 5.15 GHz
TX Channel Bandwidth: 5 MHz
Antenna Gain: 10dBi (Wireless Edge, MT-482003/N)
TX-channel: 5845MHz
Average Limit: 54 dBµV/m



Date: 17.OCT.2007 17:20:15

Radiated Emissions within Restricted Bands, continued

Restricted Band: 4.5 – 5.15 GHz
TX Channel Bandwidth: 5 MHz
Antenna Gain: 10dBi (Wireless Edge, MT-482003/N)
TX-channel: 5845MHz
Peak Limit: 74 dBµV/m



Date: 17.OCT.2007 17:21:26

Radiated Emissions within Restricted Bands, continued

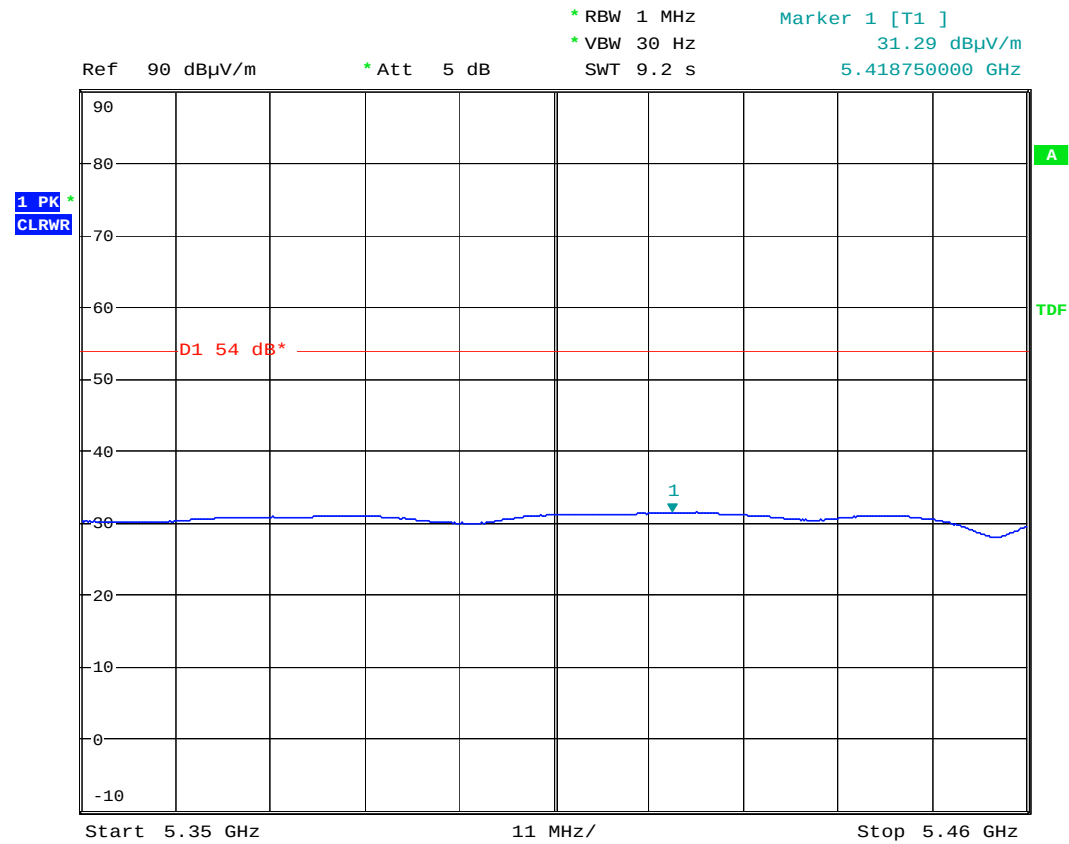
Restricted Band: 5.35 – 5.46 GHz

TX Channel Bandwidth: 5 MHz

Antenna Gain: 10dBi (Wireless Edge, MT-482003/N)

TX-channel: 5730MHz

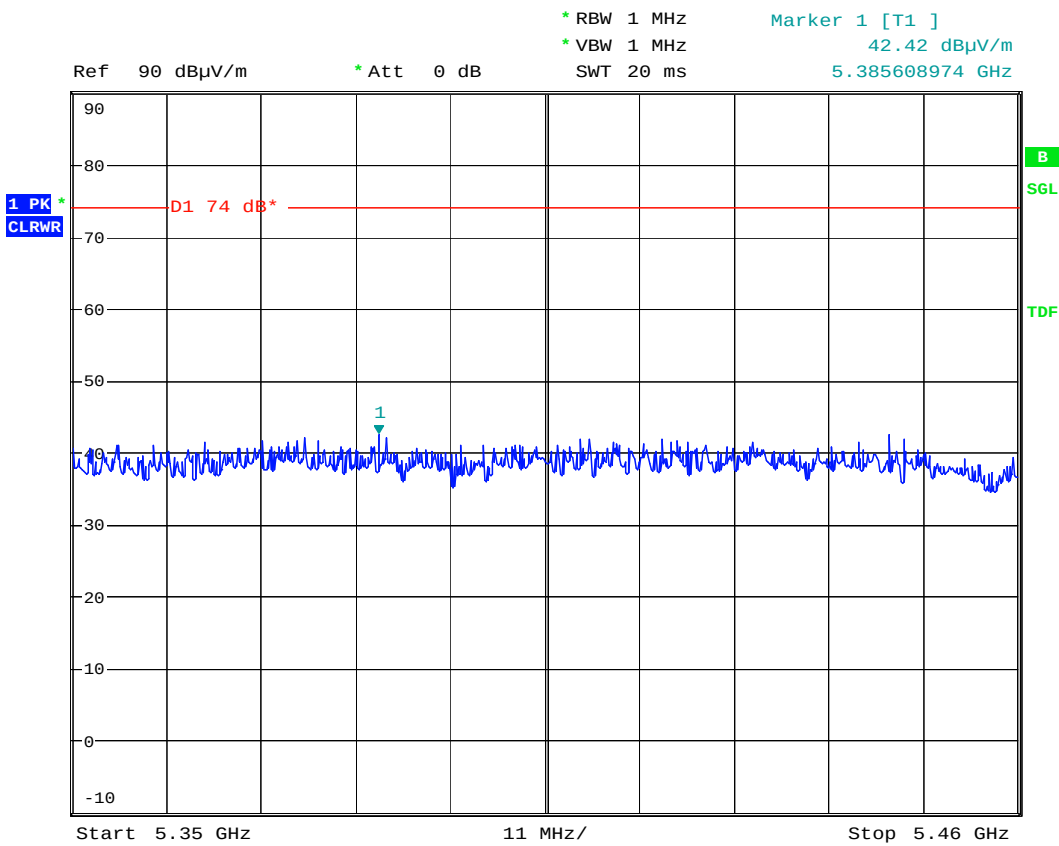
Average Limit: 54 dBμV/m



Date: 17.OCT.2007 17:13:59

Radiated Emissions within Restricted Bands, continued

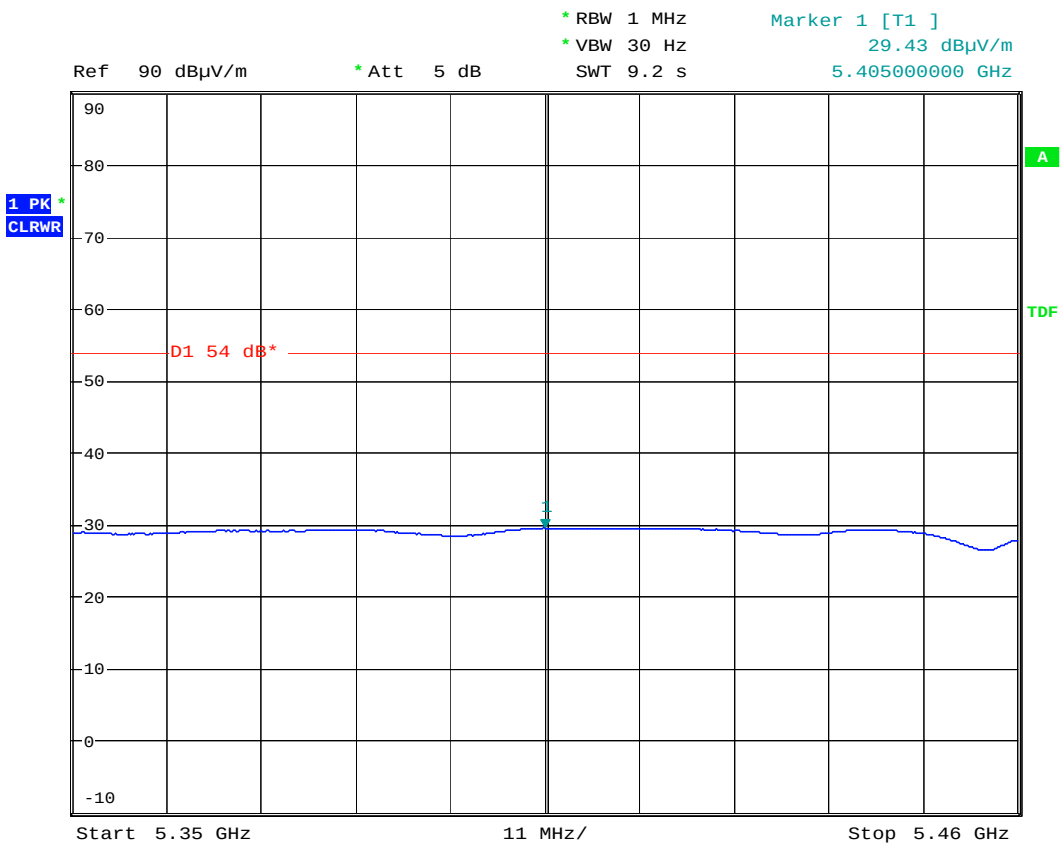
Restricted Band: 5.35 – 5.46 GHz
TX Channel Bandwidth: 5 MHz
Antenna Gain: 10dBi (Wireless Edge, MT-482003/N)
TX-channel: 5730MHz
Peak Limit: 74 dBµV/m



Date: 17.OCT.2007 17:15:43

Radiated Emissions within Restricted Bands, continued

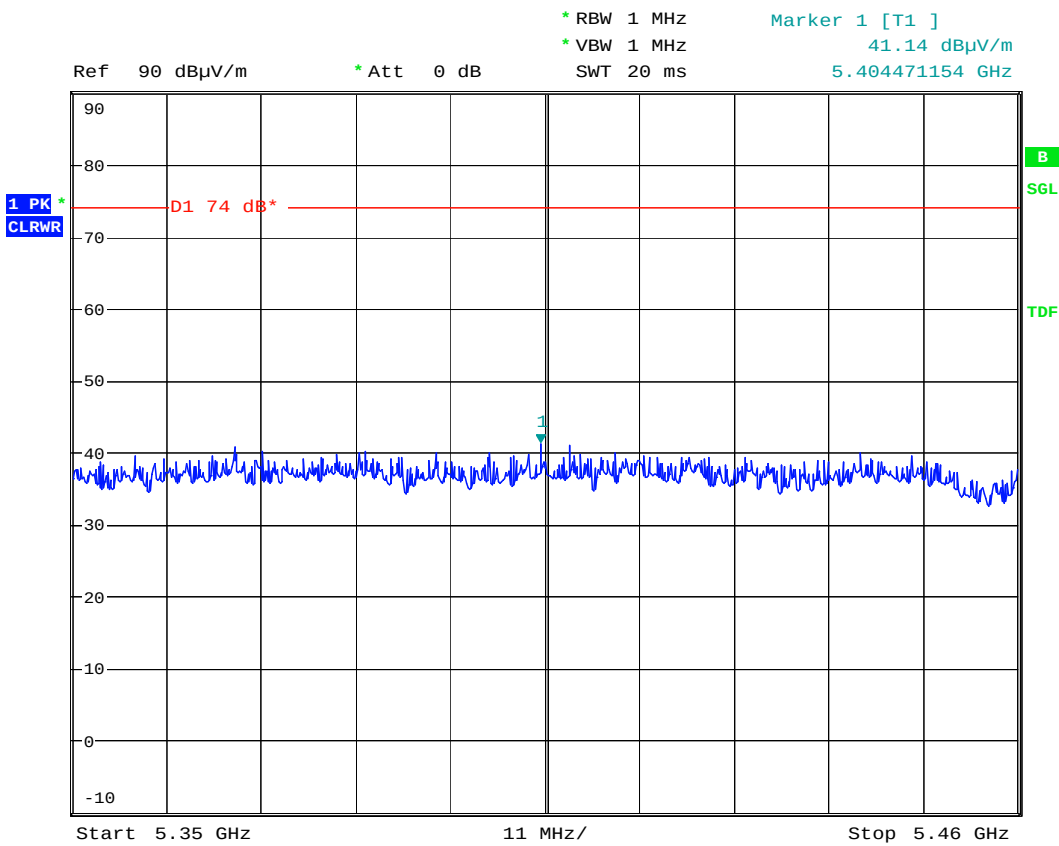
Restricted Band: 5.35 – 5.46 GHz
TX Channel Bandwidth: 5 MHz
Antenna Gain: 10dBi (Wireless Edge, MT-482003/N)
TX-channel: 5845MHz
Average Limit: 54 dBμV/m



Date: 17.OCT.2007 17:22:57

Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz
TX Channel Bandwidth: 5 MHz
Antenna Gain: 10dBi (Wireless Edge, MT-482003/N)
TX-channel: 5845MHz
Peak Limit: 74 dBµV/m



Date: 17.OCT.2007 17:23:50

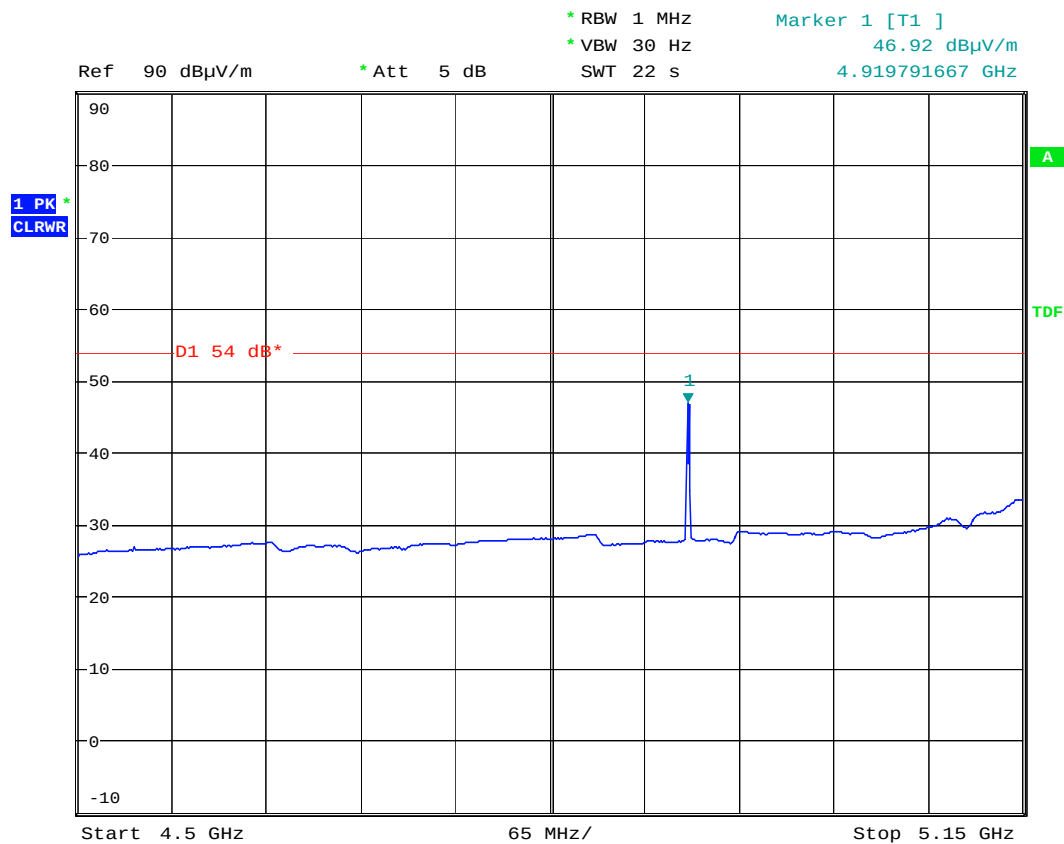
Radiated Emissions within Restricted Bands, continued

Restricted Band: 4.5 – 5.15 GHz

TX Channel Bandwidth: 5 MHz

Antenna Gain: 30dBi (Andrew, P2F-52-NEA)

TX-channel: 5730MHz

Average Limit: 54 dB μ V/m

Date: 17.OCT.2007 15:44:41

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

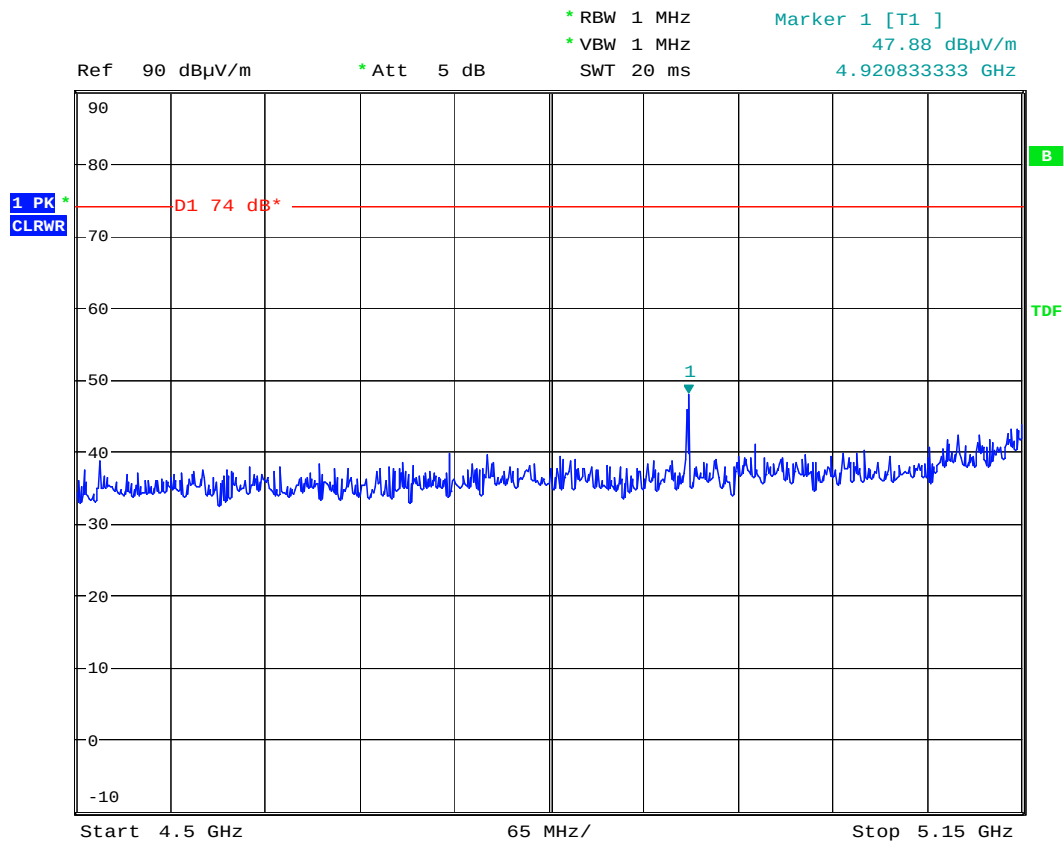
Radiated Emissions within Restricted Bands, continued

Restricted Band: 4.5 – 5.15 GHz

TX Channel Bandwidth: 5 MHz

Antenna Gain: 30dBi (Andrew, P2F-52-NEA)

TX-channel: 5730MHz

Peak Limit: 74 dB μ V/m

Date: 17.OCT.2007 15:46:38

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

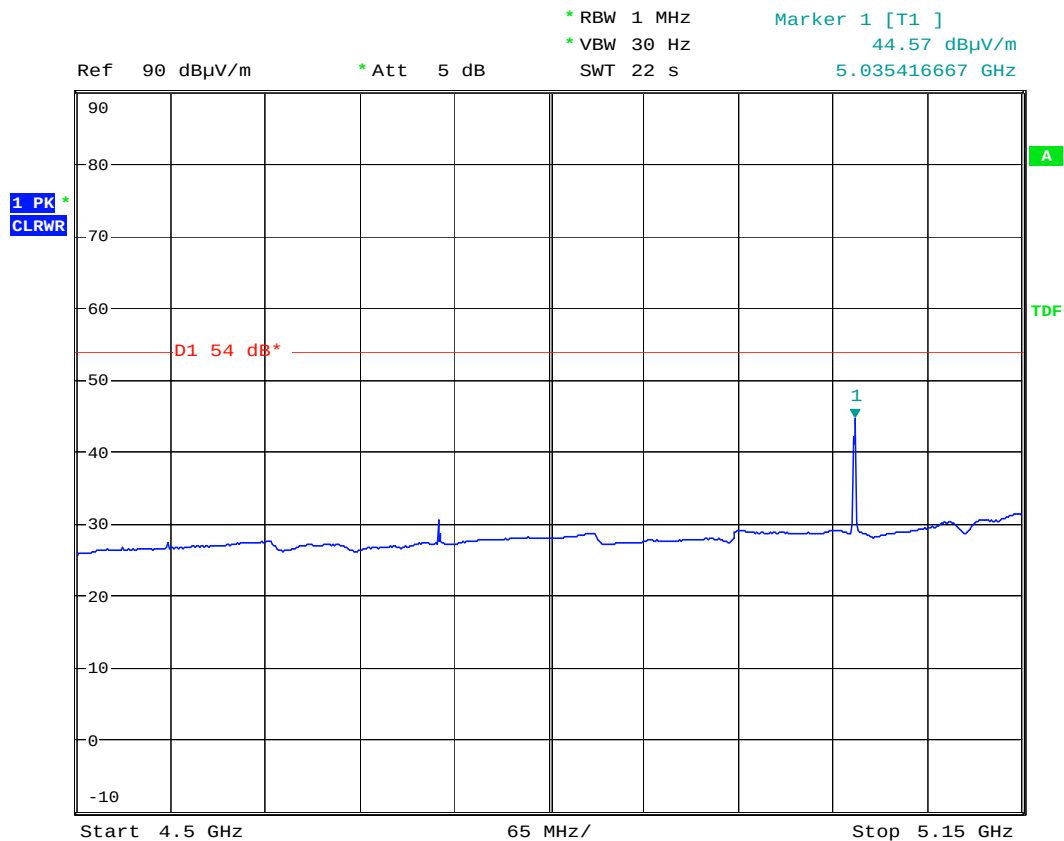
Radiated Emissions within Restricted Bands, continued

Restricted Band: 4.5 – 5.15 GHz

TX Channel Bandwidth: 5 MHz

Antenna Gain: 30dBi (Andrew, P2F-52-NEA)

TX-channel: 5845MHz

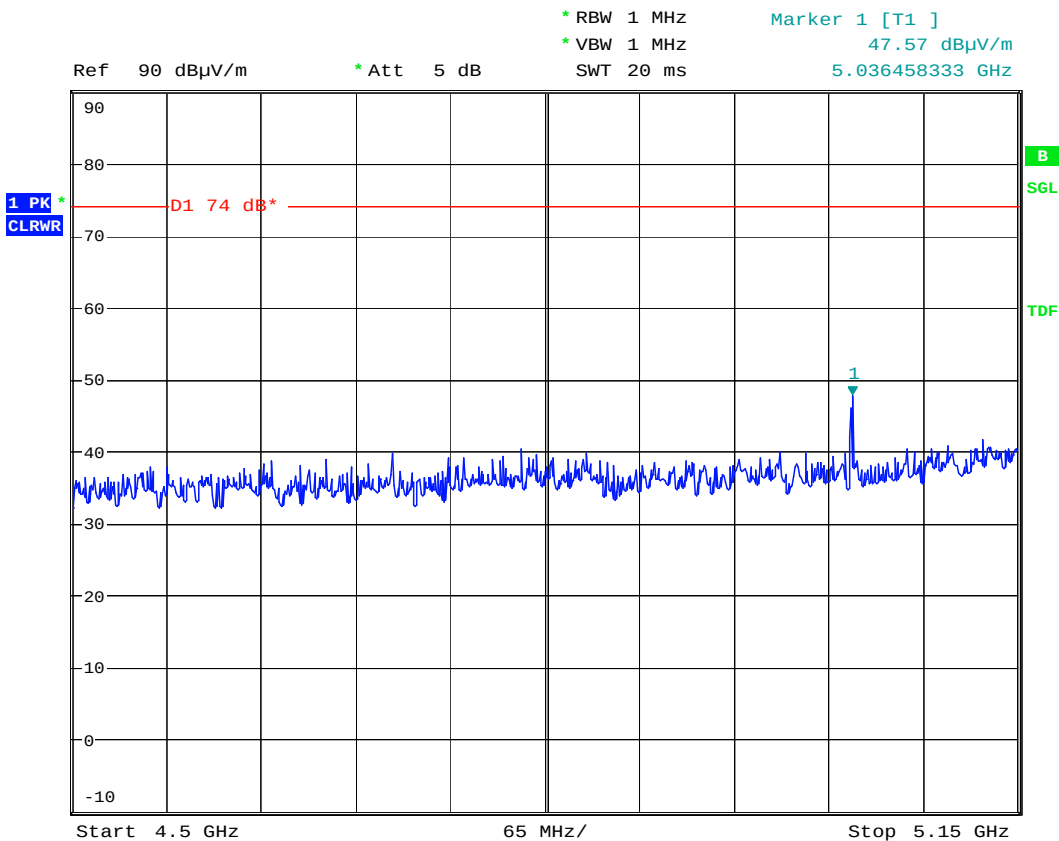
Average Limit: 54 dB μ V/m

Date: 17.OCT.2007 16:19:30

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

Radiated Emissions within Restricted Bands, continued

Restricted Band: 4.5 – 5.15 GHz
TX Channel Bandwidth: 5 MHz
Antenna Gain: 30dBi (Andrew, P2F-52-NEA)
TX-channel: 5845MHz
Peak Limit: 74 dBµV/m

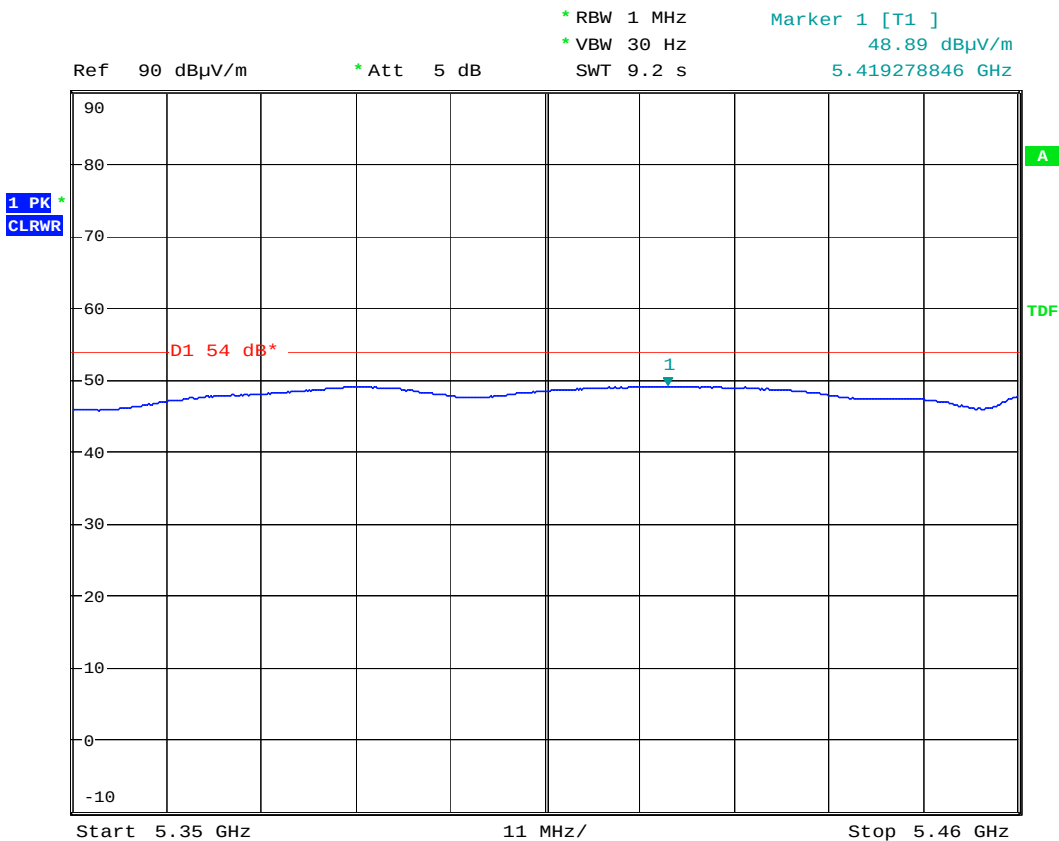


Date: 17.OCT.2007 16:20:56

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz
TX Channel Bandwidth: 5 MHz
Antenna Gain: 30dBi (Andrew, P2F-52-NEA)
TX-channel: 5730MHz
Average Limit: 54 dBμV/m



Date: 17.OCT.2007 16:12:29

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

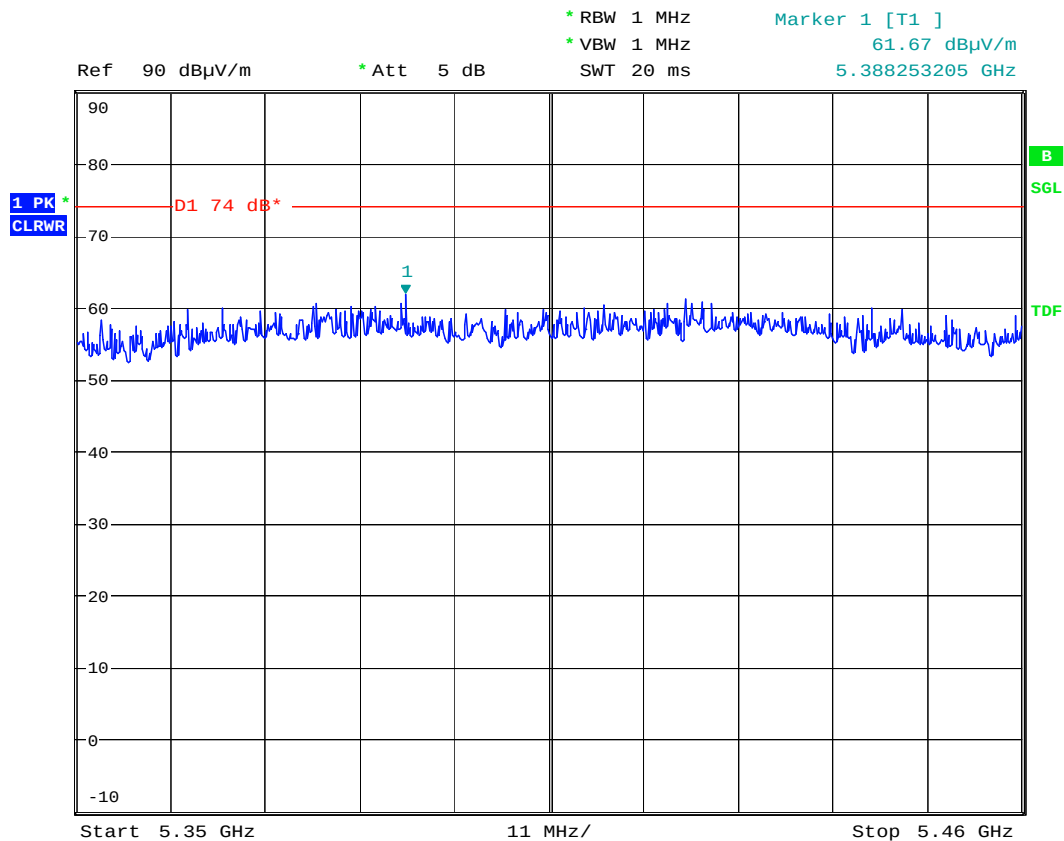
Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz

TX Channel Bandwidth: 5 MHz

Antenna Gain: 30dBi (Andrew, P2F-52-NEA)

TX-channel: 5730MHz

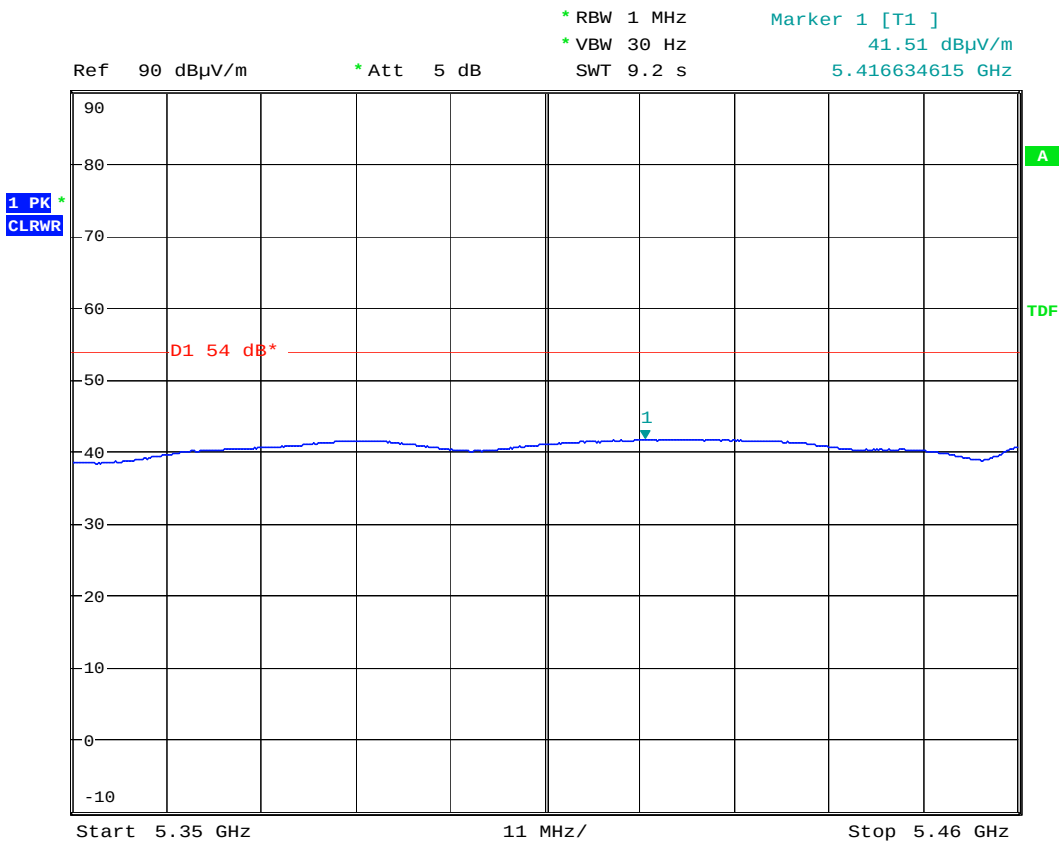
Peak Limit: 74 dB μ V/m

Date: 17.OCT.2007 16:15:05

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz
TX Channel Bandwidth: 5 MHz
Antenna Gain: 30dBi (Andrew, P2F-52-NEA)
TX-channel: 5845MHz
Average Limit: 54 dBµV/m

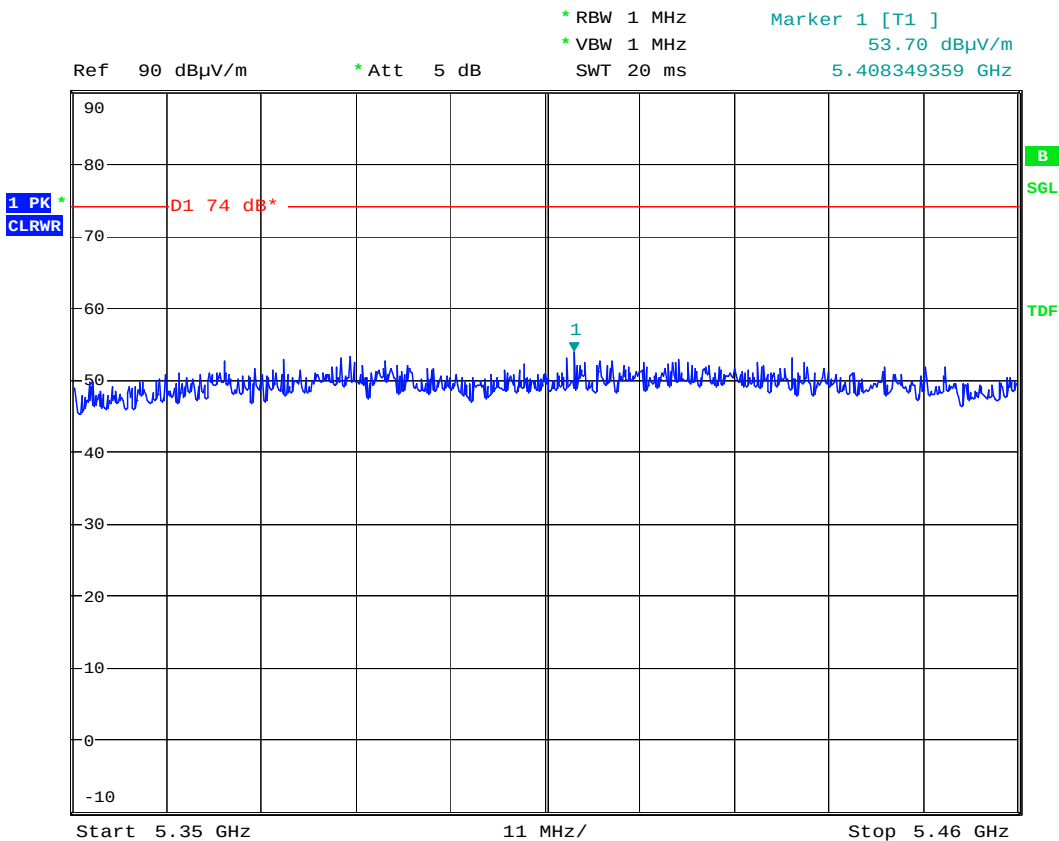


Date: 17.OCT.2007 16:22:53

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

Radiated Emissions within Restricted Bands, continued

Restricted Band: 5.35 – 5.46 GHz
TX Channel Bandwidth: 5 MHz
Antenna Gain: 30dBi (Andrew, P2F-52-NEA)
TX-channel: 5845MHz
Peak Limit: 74 dBµV/m



Date: 17.OCT.2007 16:26:07

NOTE: Tested with RF-filter BMA000281-A connected between the EUT and antenna.

Clause 15.247(a)(2) Systems using digital modulation techniques

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

Test Conditions:

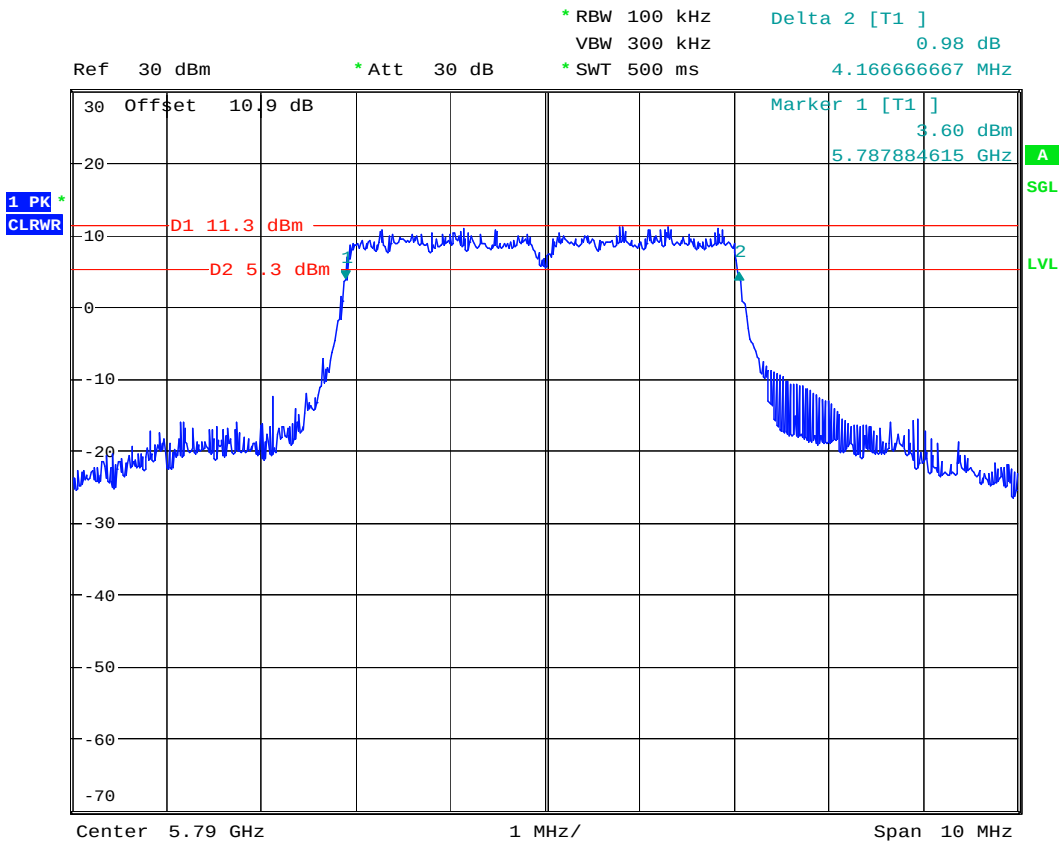
Sample Number:	1	Temperature (°C):	25°C
Date:	Aug. 17 – 18 Oct., 2007	Humidity (%):	48 %
Modification State:	0	Tester:	Roman Kuleba
		Laboratory:	Ottawa

Test Results: See attached plots.

Systems using digital modulation techniques, continued

Nominal TX Channel Bandwidth: 5 MHz

6dB Bandwidth

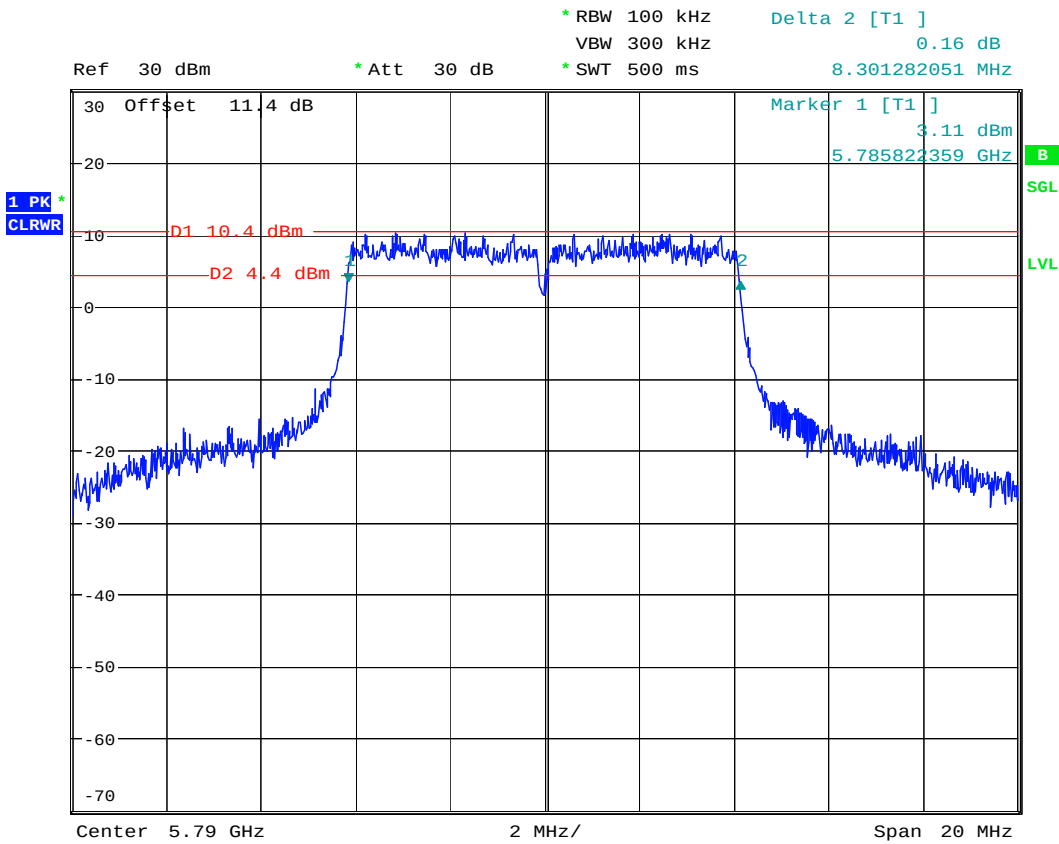


Date: 18.OCT.2007 19:59:07

Systems using digital modulation techniques, continued

Nominal TX Channel Bandwidth: 10 MHz

6dB Bandwidth

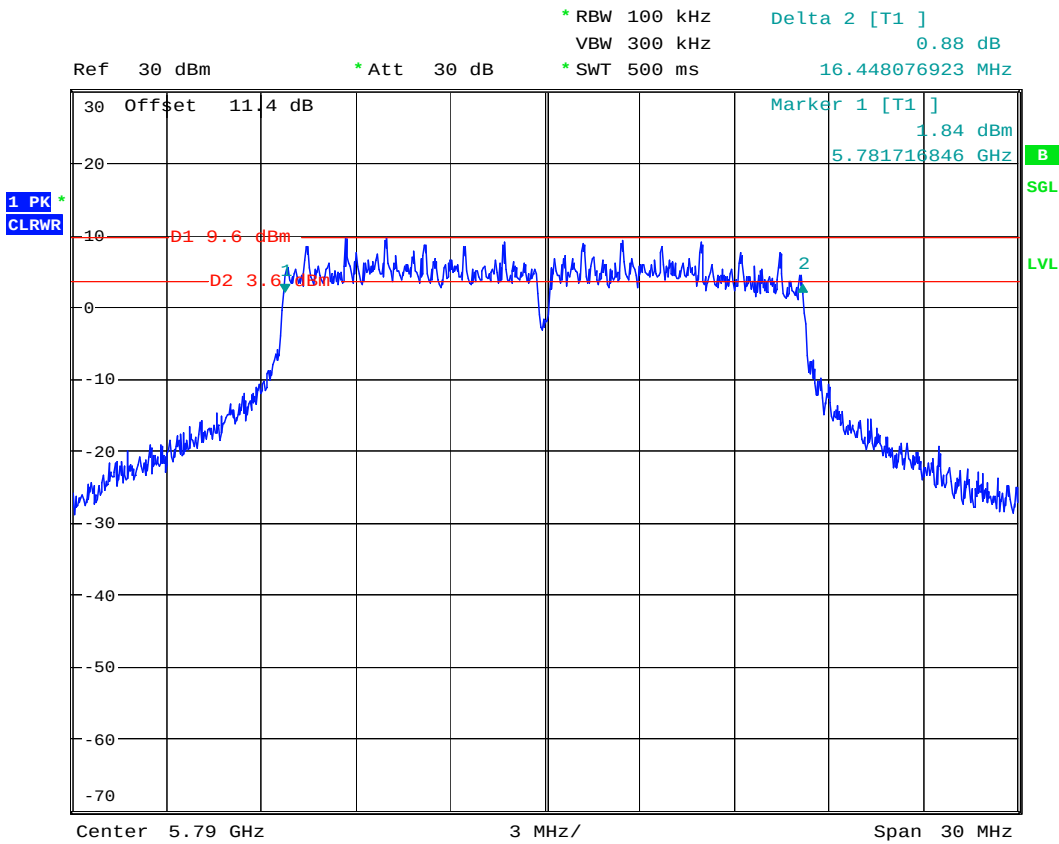


Date: 17.AUG.2007 19:12:25

Systems using digital modulation techniques, continued

Nominal TX Channel Bandwidth: 20 MHz

6dB Bandwidth



Date: 17.AUG.2007 19:08:44

Clause 15.247(b)(3) Maximum peak output power of systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signalling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Clause 15.247(b)(4) Maximum peak output power

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Clause 15.247(c)(1) Fixed point-to-point operation

§15.247(c)(1)(ii) Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

Test Conditions:

Sample Number:	1	Temperature (°C):	25°C
Date:	Aug. 20 – Oct. 18, 2007	Humidity (%):	48 %
Modification State:	0	Tester:	Roman Kuleba
		Laboratory:	Ottawa

Test Results: See attached plots and table.

Additional Observations:

The output RF power was measured on the antenna port by means of a spectrum analyzer and following the 'Power Output Option 2' procedure from the FCC guidelines for Measurement of Digital Transmission Systems operating under Section 15.247.

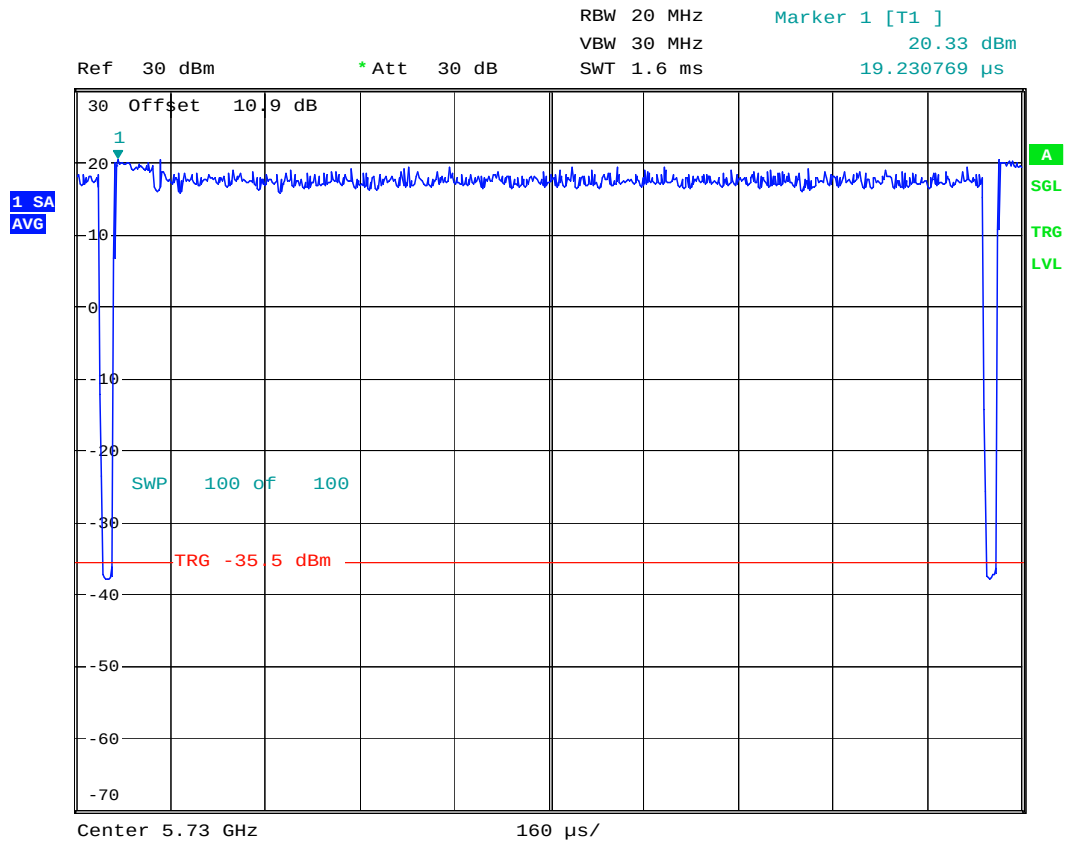
Transmit output power was measured while supply voltage was varied from 102 VAC to 138 VAC (85% to 115% of the nominal rated supply voltage). No change in transmit output power was observed.

Maximum peak output power of systems using digital modulation, continued

Channel BW: 5 MHz

TX-channel: 5730 MHz

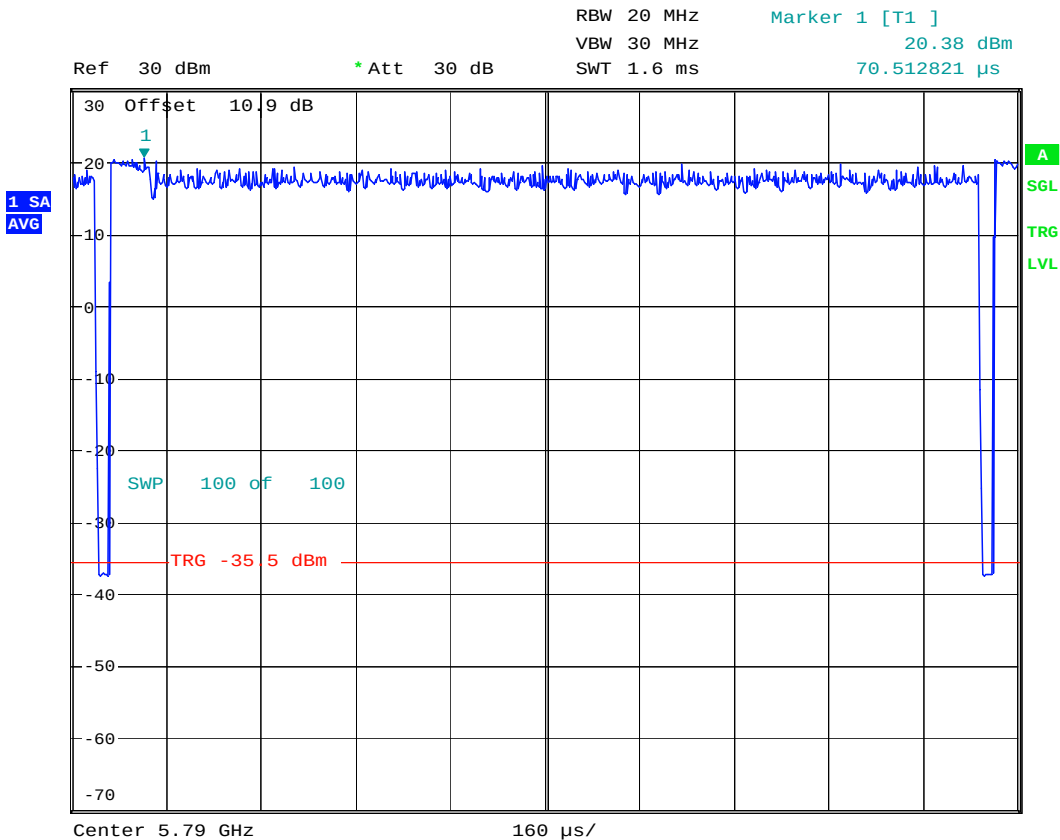
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 18.OCT.2007 20:25:49

Maximum peak output power of systems using digital modulation, continued

Channel BW: 5 MHz
TX-channel: 5790 MHz
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



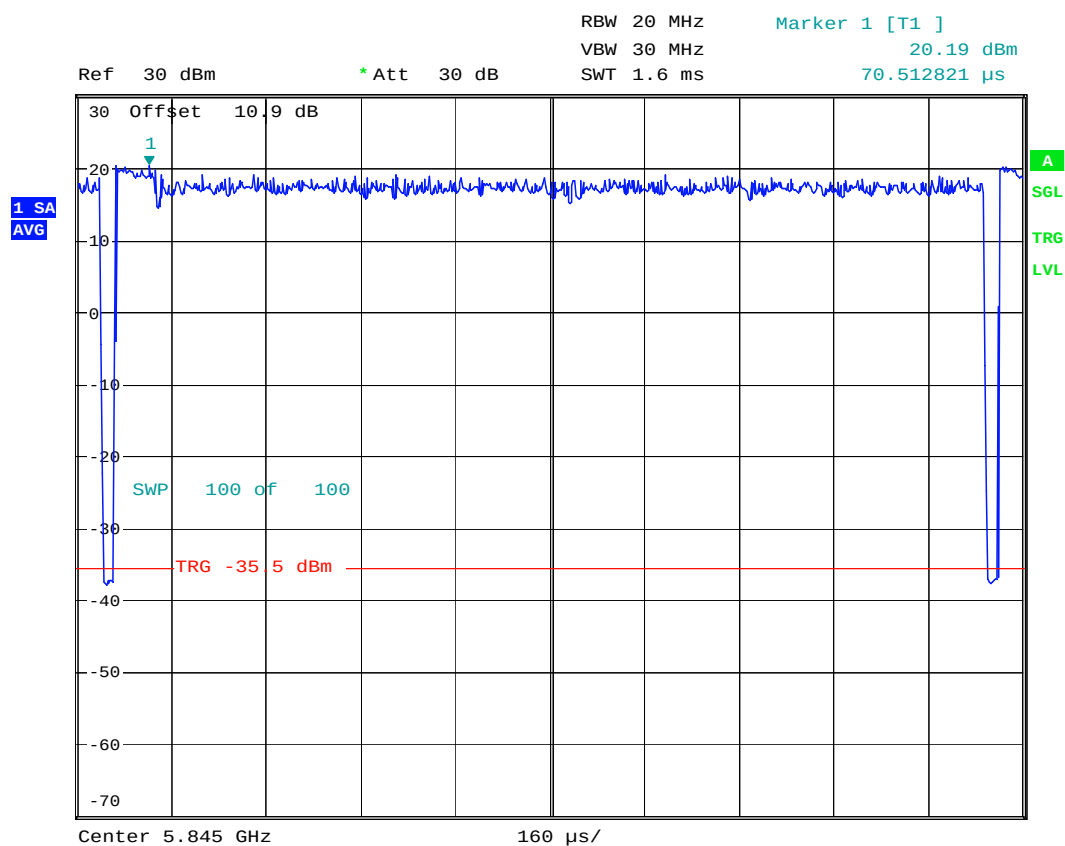
Date: 18.OCT.2007 20:11:00

Maximum peak output power of systems using digital modulation, continued

Channel BW: 5 MHz

TX-channel: 5845 MHz

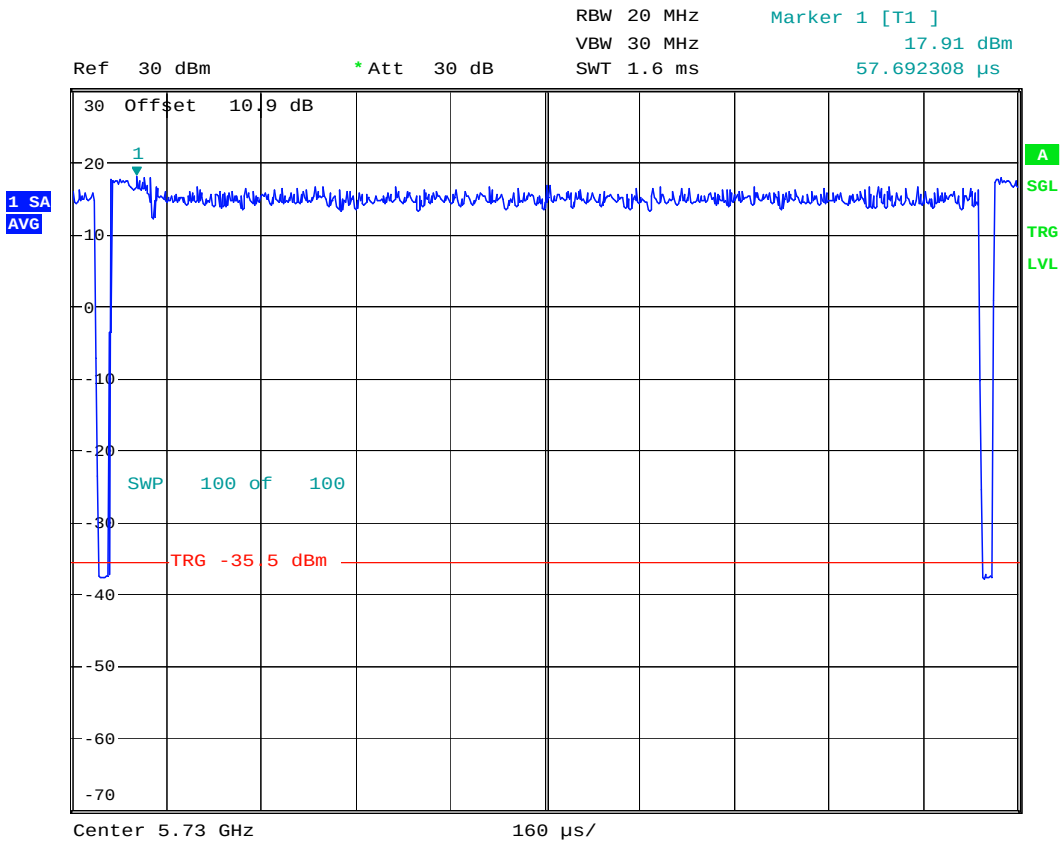
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 18.OCT.2007 20:31:02

Maximum peak output power of systems using digital modulation, continued

Channel BW: 5 MHz
TX-channel: 5730 MHz
Antenna Gain: 18dBi



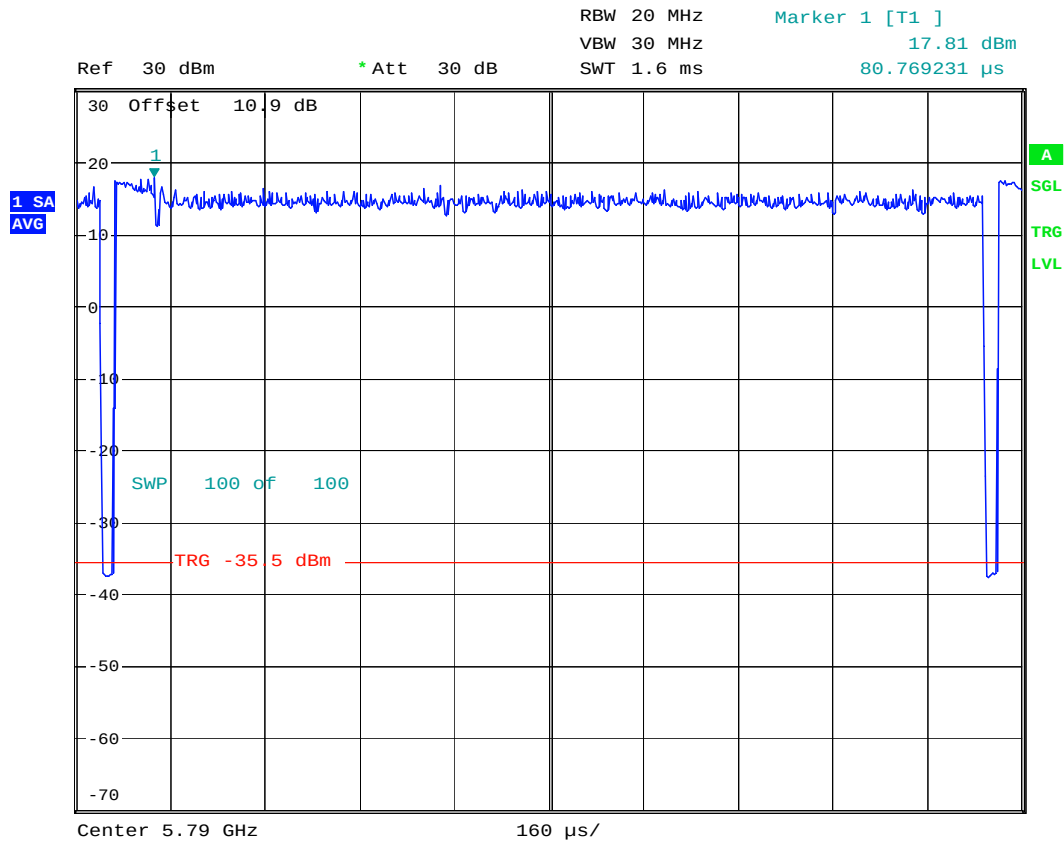
Date: 18.OCT.2007 20:48:33

Maximum peak output power of systems using digital modulation, continued

Channel BW: 5 MHz

TX-channel: 5790 MHz

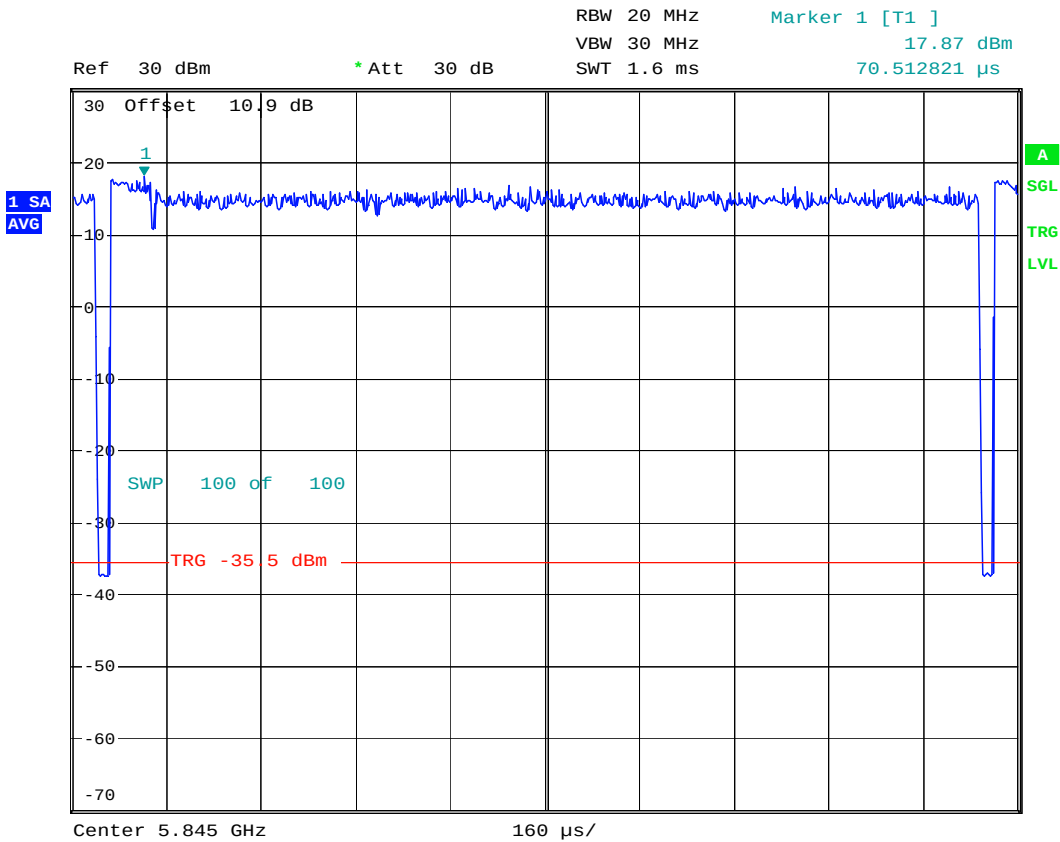
Antenna Gain: 18dBi



Date: 18.OCT.2007 20:42:43

Maximum peak output power of systems using digital modulation, continued

Channel BW: 5 MHz
TX-channel: 5845 MHz
Antenna Gain: 18dBi



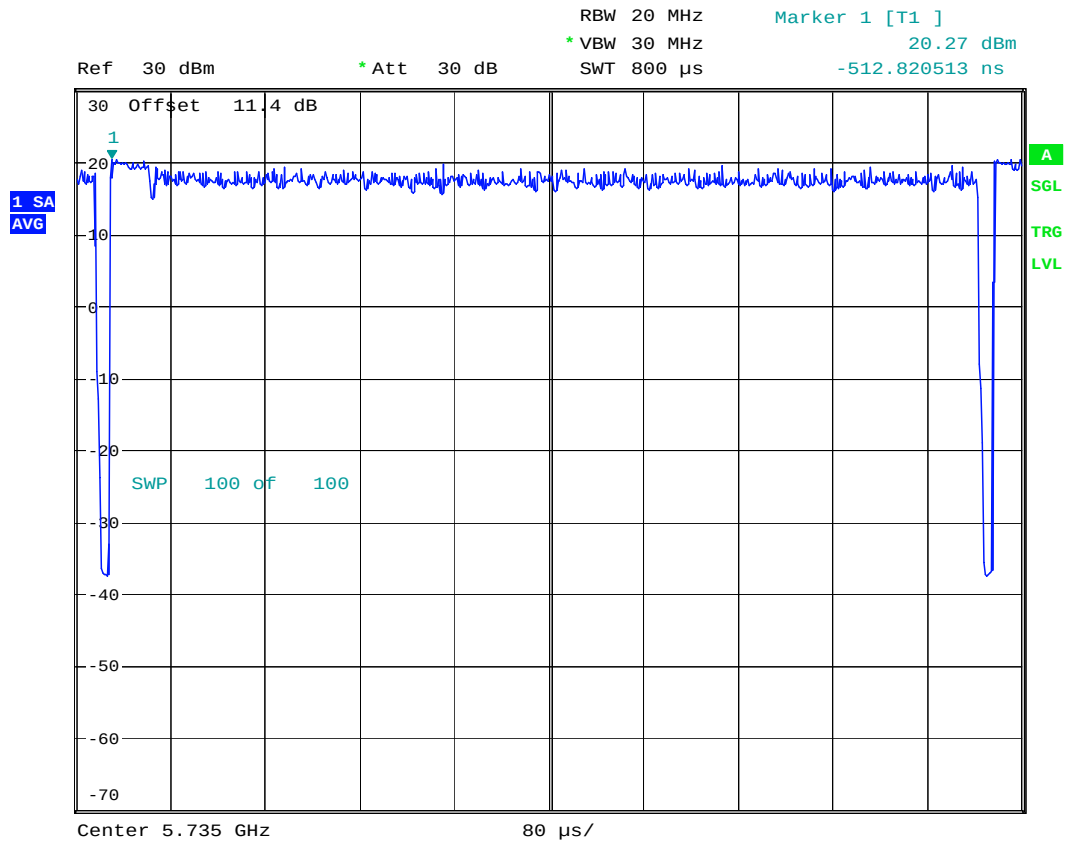
Date: 18.OCT.2007 20:38:38

Maximum peak output power of systems using digital modulation, continued

Channel BW: 10 MHz

TX-channel: 5735 MHz

Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



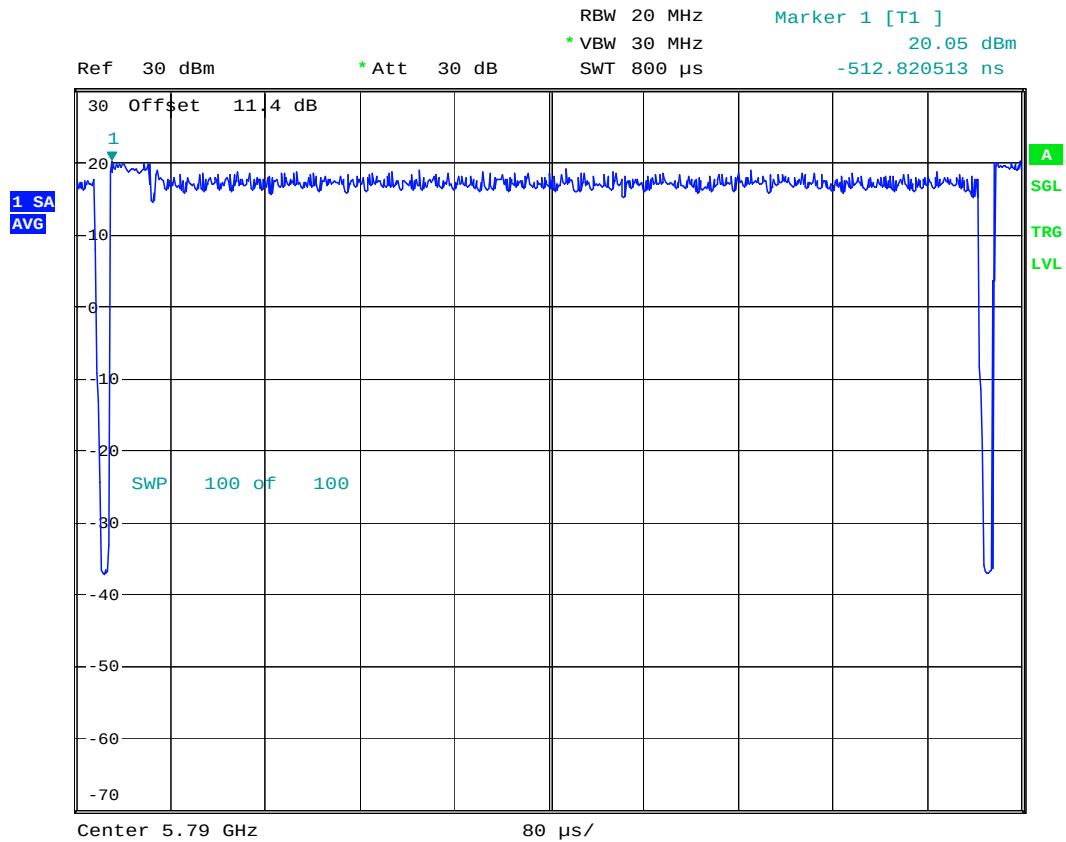
Date: 20.AUG.2007 13:09:43

Maximum peak output power of systems using digital modulation, continued

Channel BW: 10 MHz

TX-channel: 5790 MHz

Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



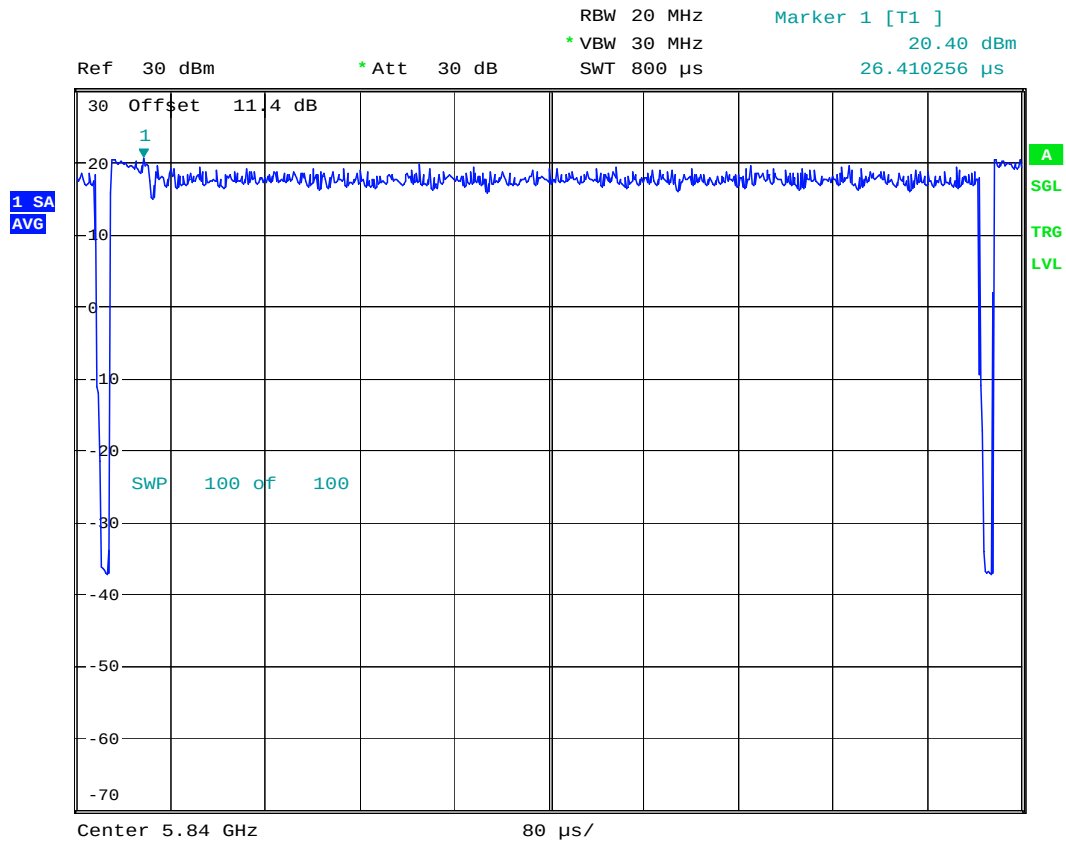
Date: 20.AUG.2007 13:14:31

Maximum peak output power of systems using digital modulation, continued

Channel BW: 10 MHz

TX-channel: 5840 MHz

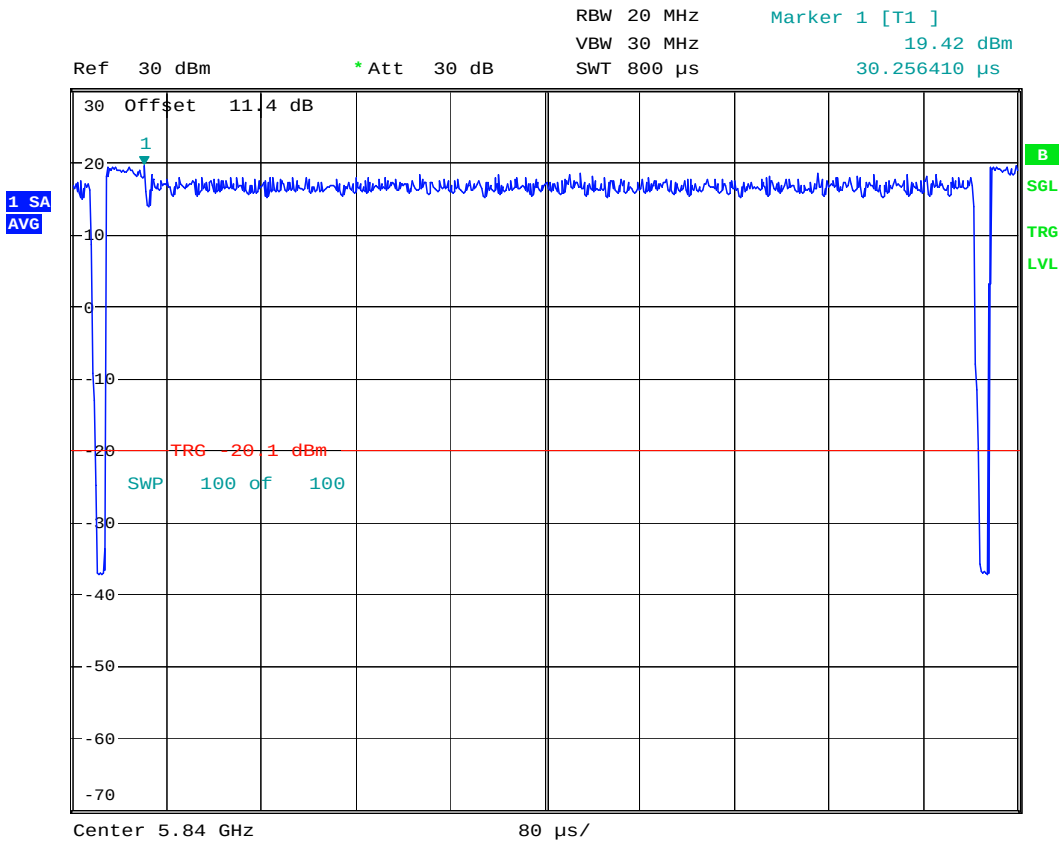
Antenna Gain: 10dBi, 10.5dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 20.AUG.2007 13:20:59

Maximum peak output power of systems using digital modulation, continued

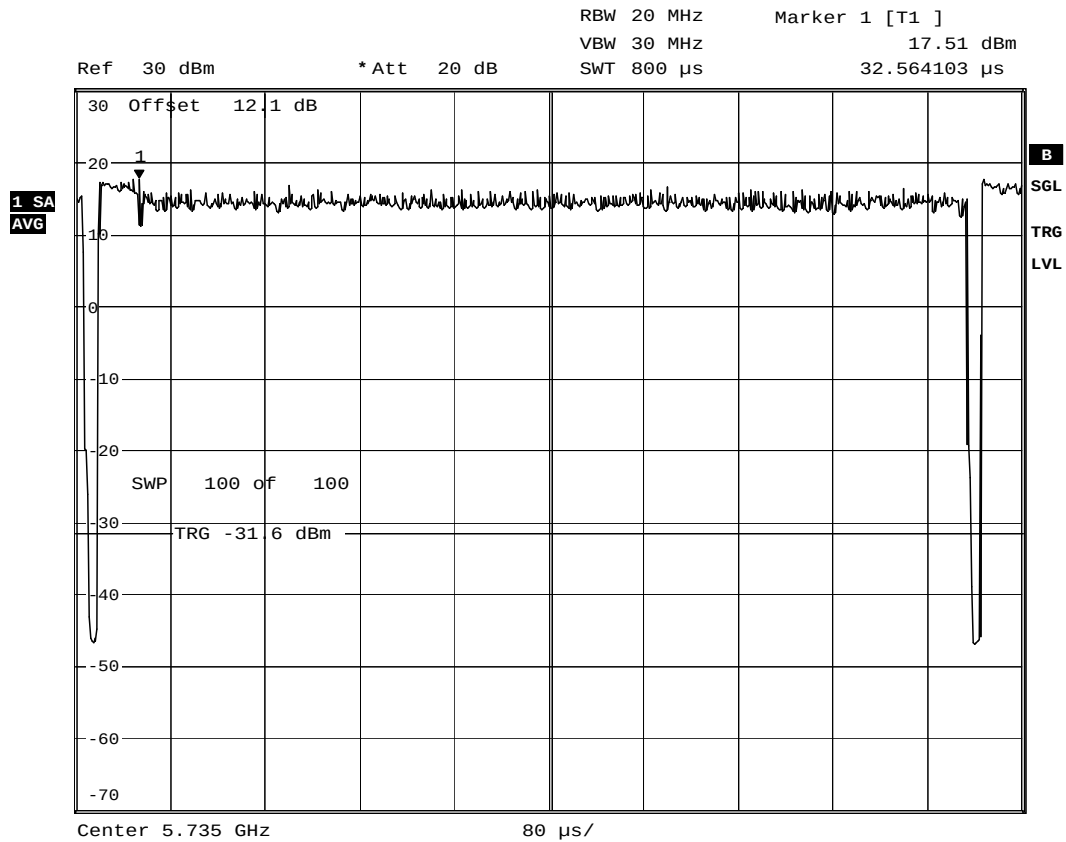
Channel BW: 10 MHz
TX-channel: 5840 MHz
Antenna Gain: 15dBi



Date: 21.AUG.2007 13:13:22

Maximum peak output power of systems using digital modulation, continued

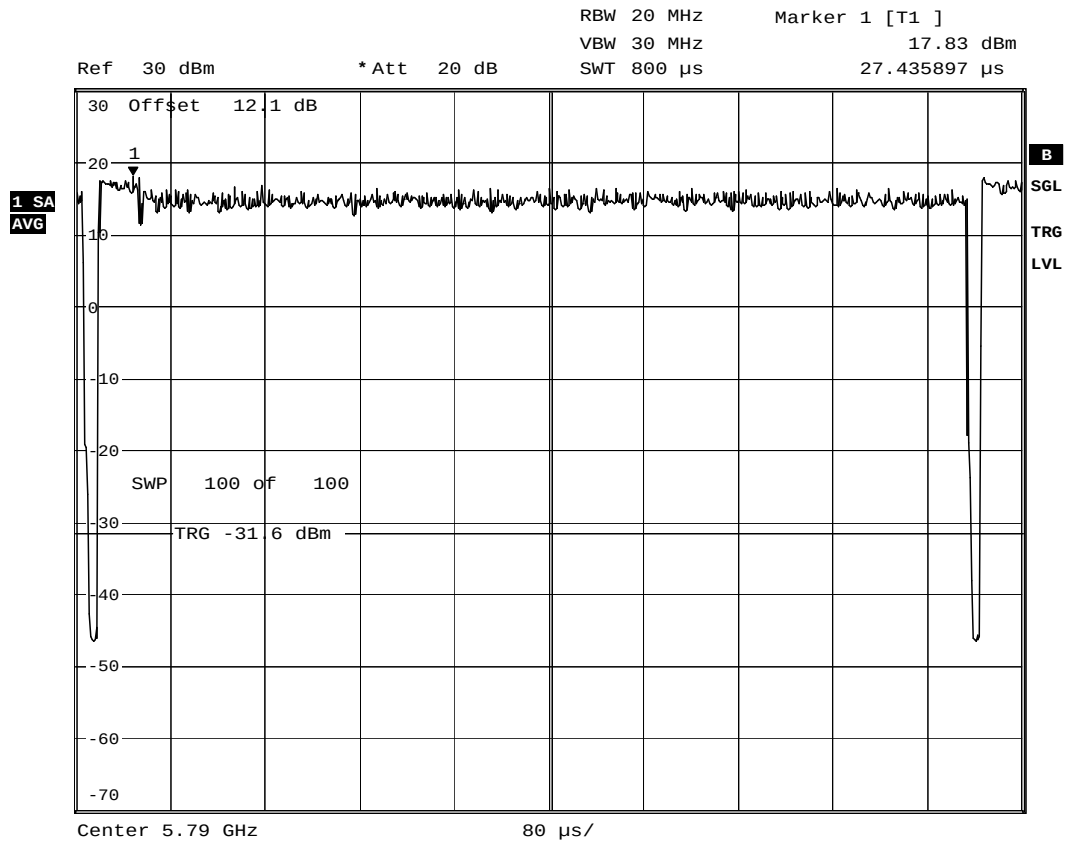
Channel BW: 10 MHz
TX-channel: 5735 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 11:10:29

Maximum peak output power of systems using digital modulation, continued

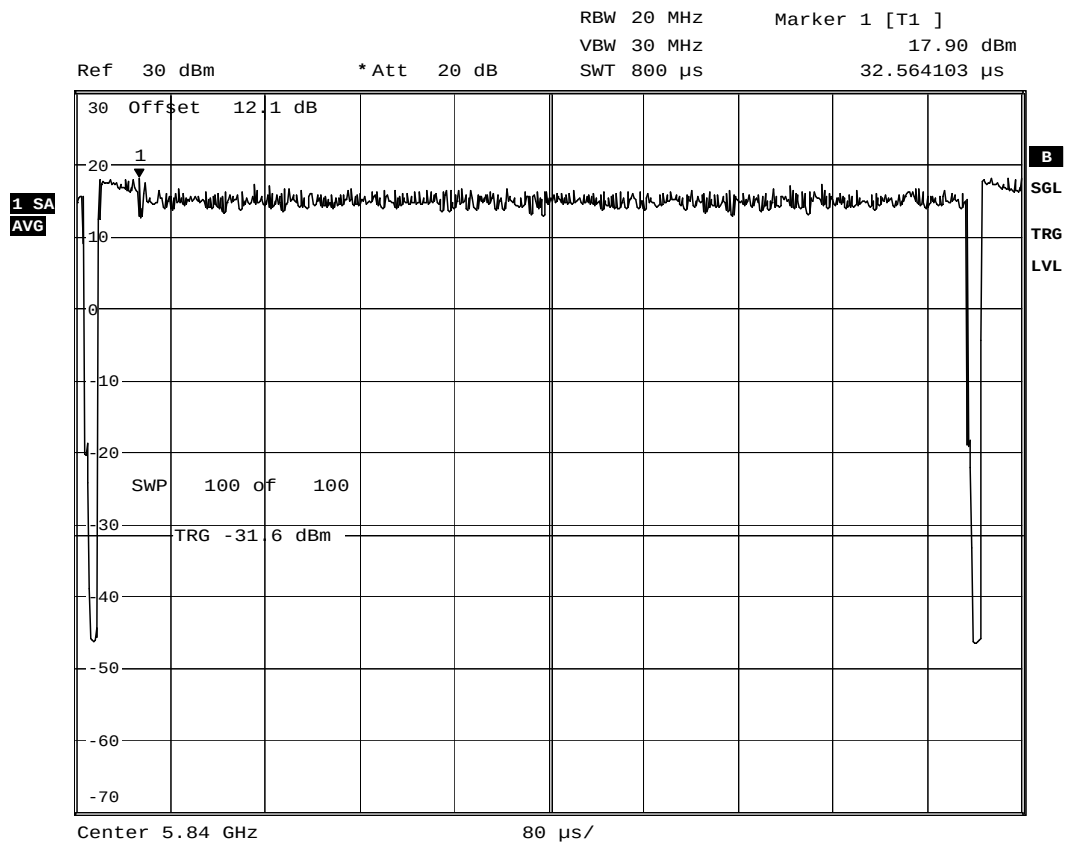
Channel BW: 10 MHz
TX-channel: 5790 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 11:13:04

Maximum peak output power of systems using digital modulation, continued

Channel BW: 10 MHz
TX-channel: 5840 MHz
Antenna Gain: 18dBi



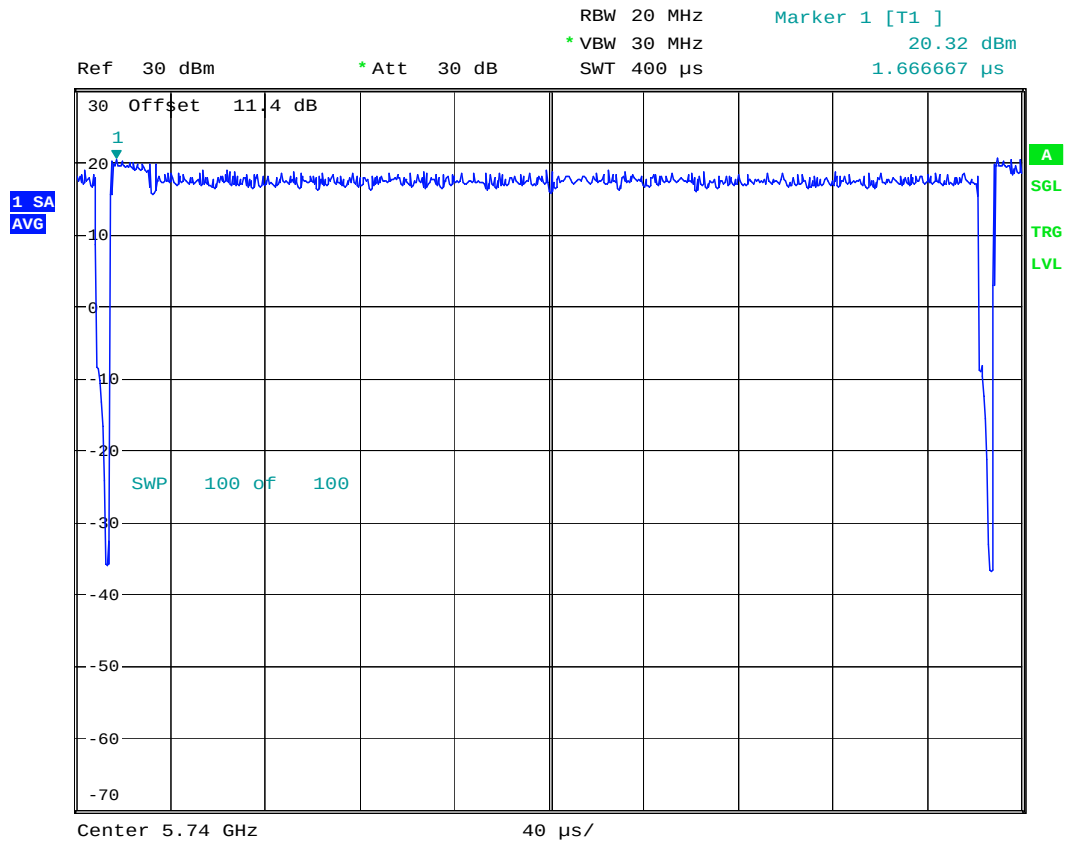
Date: 28.SEP.2007 11:18:58

Maximum peak output power of systems using digital modulation, continued

Channel BW: 20 MHz

TX-channel: 5740MHz

Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



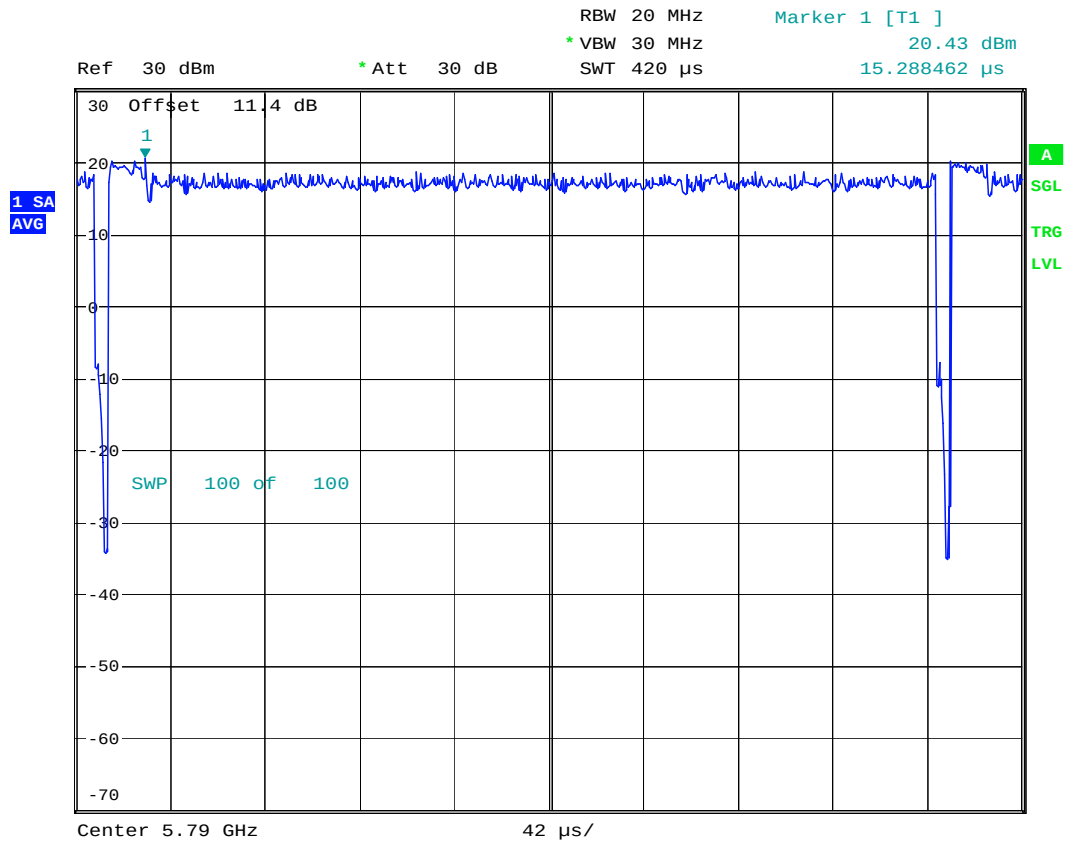
Date: 20.AUG.2007 12:18:27

Maximum peak output power of systems using digital modulation, continued

Channel BW: 20 MHz

TX-channel: 5790 MHz

Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



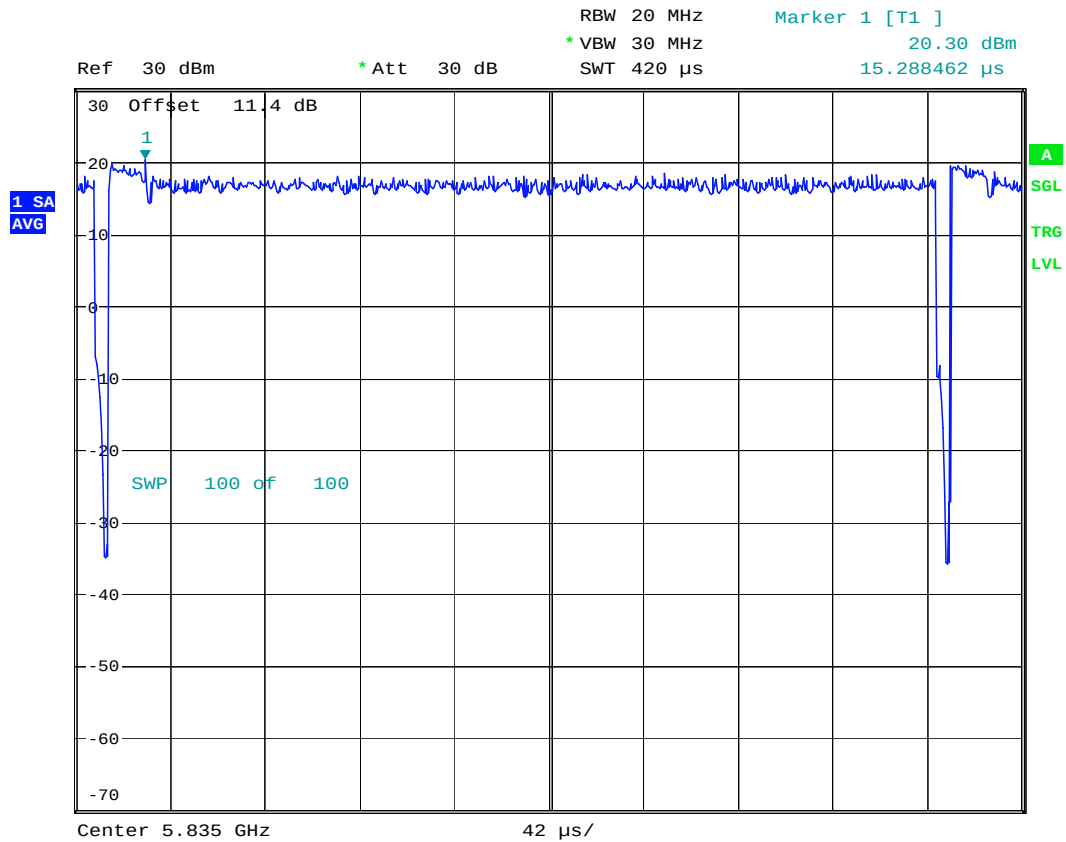
Date: 20.AUG.2007 12:28:50

Maximum peak output power of systems using digital modulation, continued

Channel BW: 20 MHz

TX-channel: 5835 MHz

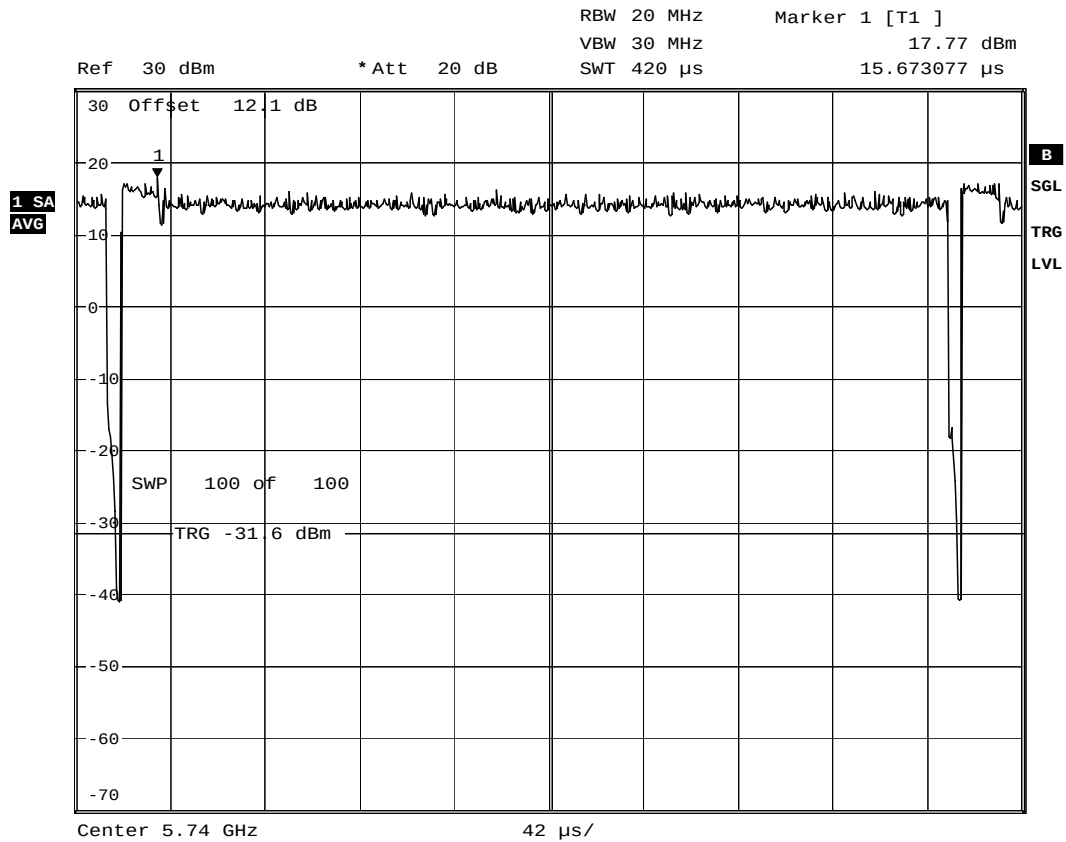
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 20.AUG.2007 12:32:34

Maximum peak output power of systems using digital modulation, continued

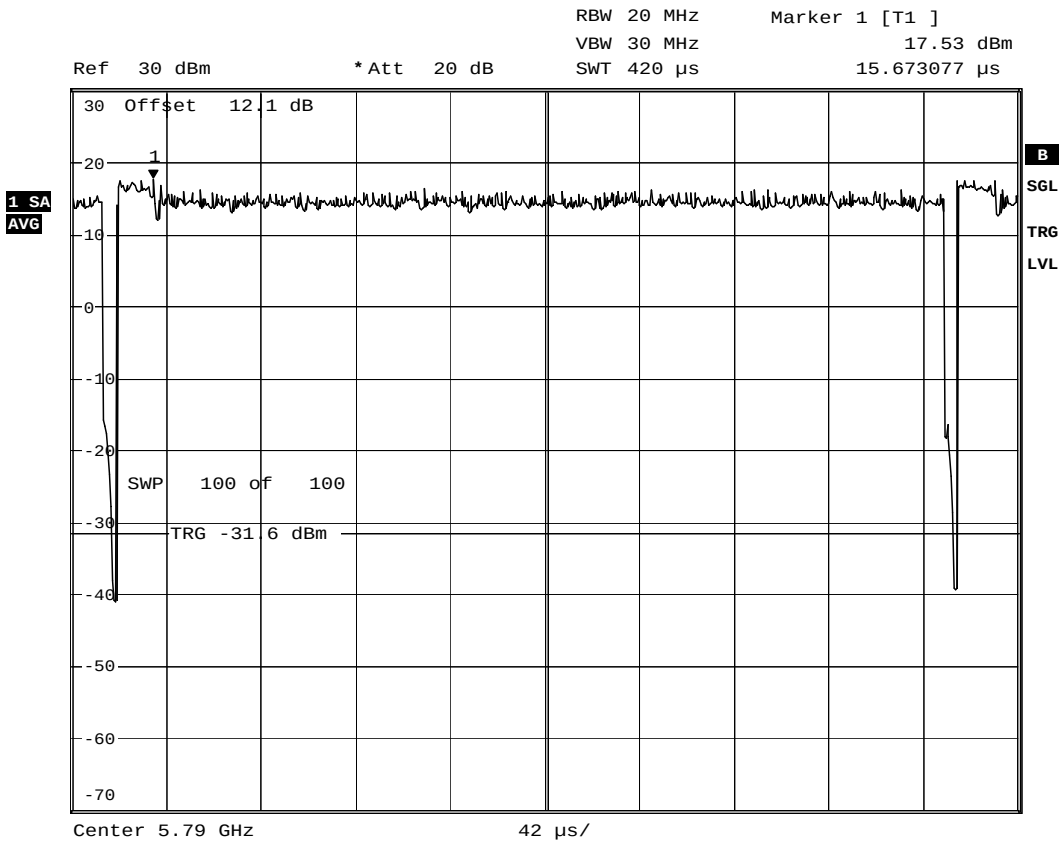
Channel BW: 20 MHz
TX-channel: 5740 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 11:35:19

Maximum peak output power of systems using digital modulation, continued

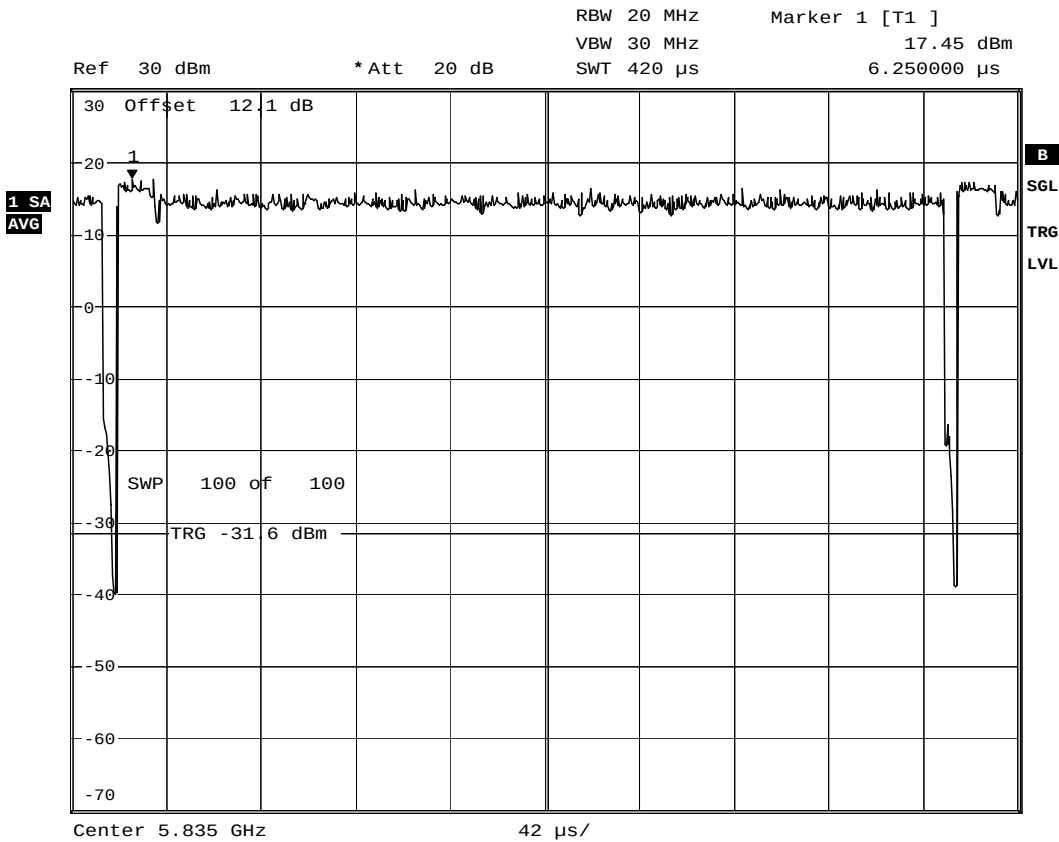
Channel BW: 20 MHz
TX-channel: 5790 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 11:37:24

Maximum peak output power of systems using digital modulation, continued

Channel BW: 20 MHz
TX-channel: 5835 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 11:40:25

Maximum peak output power of systems using digital modulation, continued

ChBW: 5MHz

Ch #	Freq. (MHz)	G _{ANT} (dBi)	Power Setting (Target Pwr A)	PTX Cond. (dBm)	Limit (dBm)	Margin (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
146	5730	10	37	20.33	30.00	9.67	30.33	36.00	5.67
158	5790	10	37	20.38	30.00	9.62	30.38	36.00	5.62
169	5845	10	37	20.19	30.00	9.81	30.19	36.00	5.81
146	5730	10.5	37	20.33	30.00	9.67	30.83	36.00	5.17
158	5790	10.5	37	20.38	30.00	9.62	30.88	36.00	5.12
169	5845	10.5	37	20.19	30.00	9.81	30.69	36.00	5.31
146	5730	15	37	20.33	30.00	9.67	35.33	36.00	0.67
158	5790	15	37	20.38	30.00	9.62	35.38	36.00	0.62
169	5845	15	37	20.19	30.00	9.81	35.19	36.00	0.81
146	5730	18	32	17.91	30.00	12.09	35.91	36.00	0.09
158	5790	18	32	17.81	30.00	12.19	35.81	36.00	0.19
169	5845	18	33	17.87	30.00	12.13	35.87	36.00	0.13
146	5730	19	37	20.33	30.00	9.67	39.33	point-to-point	N/A
158	5790	19	37	20.38	30.00	9.62	39.38	point-to-point	N/A
169	5845	19	37	20.19	30.00	9.81	39.19	point-to-point	N/A
146	5730	23	37	20.33	30.00	9.67	43.33	point-to-point	N/A
158	5790	23	37	20.38	30.00	9.62	43.38	point-to-point	N/A
169	5845	23	37	20.19	30.00	9.81	43.19	point-to-point	N/A
146	5730	28	37	20.33	30.00	9.67	48.33	point-to-point	N/A
158	5790	28	37	20.38	30.00	9.62	48.38	point-to-point	N/A
169	5845	28	37	20.19	30.00	9.81	48.19	point-to-point	N/A
146	5730	30	37	20.33	30.00	9.67	50.33	point-to-point	N/A
158	5790	30	37	20.38	30.00	9.62	50.38	point-to-point	N/A
169	5845	30	37	20.19	30.00	9.81	50.19	point-to-point	N/A

Maximum Conducted PTX: 20.38dBm

Maximum EIRP: 35.91dBm (G_{ANT} = 18dBi, point-to-multipoint operation)50.38dBm (G_{ANT} = 30dBi, point-to-point operation)

Maximum peak output power of systems using digital modulation, continued

ChBW: 10MHz

Ch #	Freq. (MHz)	G _{ANT} (dBi)	Power Setting (Target Pwr A)	PTX Cond. (dBm)	Limit (dBm)	Margin (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
147	5735	10	38	20.27	30.00	9.73	30.27	36.00	5.73
158	5790	10	37	20.05	30.00	9.95	30.05	36.00	5.95
168	5840	10	38	20.40	30.00	9.60	30.40	36.00	5.60
147	5735	10.5	38	20.27	30.00	9.73	30.77	36.00	5.23
158	5790	10.5	37	20.05	30.00	9.95	30.55	36.00	5.45
168	5840	10.5	38	20.40	30.00	9.60	30.90	36.00	5.10
147	5735	15	38	20.27	30.00	9.73	35.27	36.00	0.73
158	5790	15	37	20.05	30.00	9.95	35.05	36.00	0.95
168	5840	15	37	19.42	30.00	10.58	34.42	36.00	1.58
147	5735	18	32	17.51	30.00	12.49	35.51	36.00	0.49
158	5790	18	32	17.83	30.00	12.17	35.83	36.00	0.17
168	5840	18	32	17.90	30.00	12.10	35.90	36.00	0.10
147	5735	19	38	20.27	30.00	9.73	39.27	point-to-point	N/A
158	5790	19	37	20.05	30.00	9.95	39.05	point-to-point	N/A
168	5840	19	38	20.40	30.00	9.60	39.40	point-to-point	N/A
147	5735	23	38	20.27	30.00	9.73	43.27	point-to-point	N/A
158	5790	23	37	20.05	30.00	9.95	43.05	point-to-point	N/A
168	5840	23	38	20.40	30.00	9.60	43.40	point-to-point	N/A
147	5735	28	38	20.27	30.00	9.73	48.27	point-to-point	N/A
158	5790	28	37	20.05	30.00	9.95	48.05	point-to-point	N/A
168	5840	28	38	20.40	30.00	9.60	48.40	point-to-point	N/A
147	5735	30	38	20.27	30.00	9.73	50.27	point-to-point	N/A
158	5790	30	37	20.05	30.00	9.95	50.05	point-to-point	N/A
168	5840	30	38	20.40	30.00	9.60	50.40	point-to-point	N/A

Maximum Conducted PTX: 20.4dBm

Maximum EIRP: 35.9dBm (G_{ANT} = 18dBi, point-to-multipoint operation)50.4dBm (G_{ANT} = 30dBi, point-to-point operation)

Maximum peak output power of systems using digital modulation, continued

ChBW: 20MHz

Ch #	Freq. (MHz)	G _{ANT} (dBi)	Power Setting (Target Pwr A)	PTX Cond. (dBm)	Limit (dBm)	Margin (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
148	5740	10	39	20.32	30.00	9.68	30.32	36.00	5.68
158	5790	10	38	20.43	30.00	9.57	30.43	36.00	5.57
167	5835	10	38	20.30	30.00	9.70	30.30	36.00	5.70
148	5740	10.5	39	20.32	30.00	9.68	30.82	36.00	5.18
158	5790	10.5	38	20.43	30.00	9.57	30.93	36.00	5.07
167	5835	10.5	38	20.30	30.00	9.70	30.80	36.00	5.20
148	5740	15	39	20.32	30.00	9.68	35.32	36.00	0.68
158	5790	15	38	20.43	30.00	9.57	35.43	36.00	0.57
167	5835	15	38	20.30	30.00	9.70	35.30	36.00	0.70
147	5735	18	33	17.77	30.00	12.23	35.77	36.00	0.23
158	5790	18	33	17.53	30.00	12.47	35.53	36.00	0.47
168	5840	18	33	17.45	30.00	12.55	35.45	36.00	0.55
148	5740	19	39	20.32	30.00	9.68	39.32	point-to-point	N/A
158	5790	19	38	20.43	30.00	9.57	39.43	point-to-point	N/A
167	5835	19	38	20.30	30.00	9.70	39.30	point-to-point	N/A
148	5740	23	39	20.32	30.00	9.68	43.32	point-to-point	N/A
158	5790	23	38	20.43	30.00	9.57	43.43	point-to-point	N/A
167	5835	23	38	20.30	30.00	9.70	43.30	point-to-point	N/A
148	5740	28	39	20.32	30.00	9.68	48.32	point-to-point	N/A
158	5790	28	38	20.43	30.00	9.57	48.43	point-to-point	N/A
167	5835	28	38	20.30	30.00	9.70	48.30	point-to-point	N/A
148	5740	30	39	20.32	30.00	9.68	50.32	point-to-point	N/A
158	5790	30	38	20.43	30.00	9.57	50.43	point-to-point	N/A
167	5835	30	38	20.30	30.00	9.70	50.30	point-to-point	N/A

Maximum Conducted PTX: 20.43dBm

Maximum EIRP: 35.77dBm (G_{ANT} = 18dBi, point-to-multipoint operation)50.43dBm (G_{ANT} = 30dBi, point-to-point operation)

Clause 15.247(d) Radiated Emissions Not in Restricted Bands

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Conditions:

Sample Number:	1	Temperature (°C):	25°C
Date:	Aug. 17 – Oct. 19, 2007	Humidity (%):	48 %
Modification State:	0	Tester:	Roman Kuleba
		Laboratory:	Ottawa

Test Results: Pass.

See attached table and plots for results.

Additional Observations:

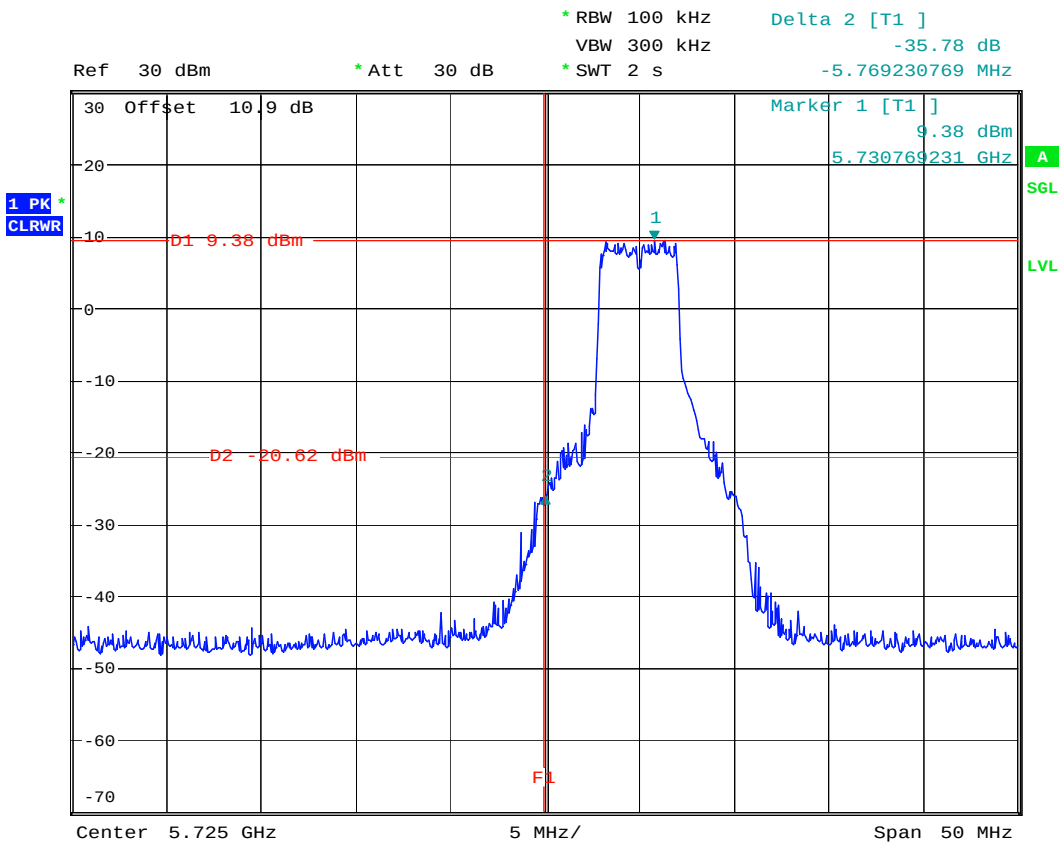
The Spectrum was searched from 30MHz to 40 GHz.

All measurements for spurious emissions not within the restricted bands were performed using a Peak Detector with 100kHz RBW and for emissions within the restricted bands a Peak detector with 100kHz RBW below 1GHz and a 1MHz RBW above 1GHz.

All radiated measurements were performed at 3m.

Radiated Emissions Not in Restricted Bands, continued

30 dBc Band-Edge Check
Channel BW: 5MHz
Channel: 5730MHz



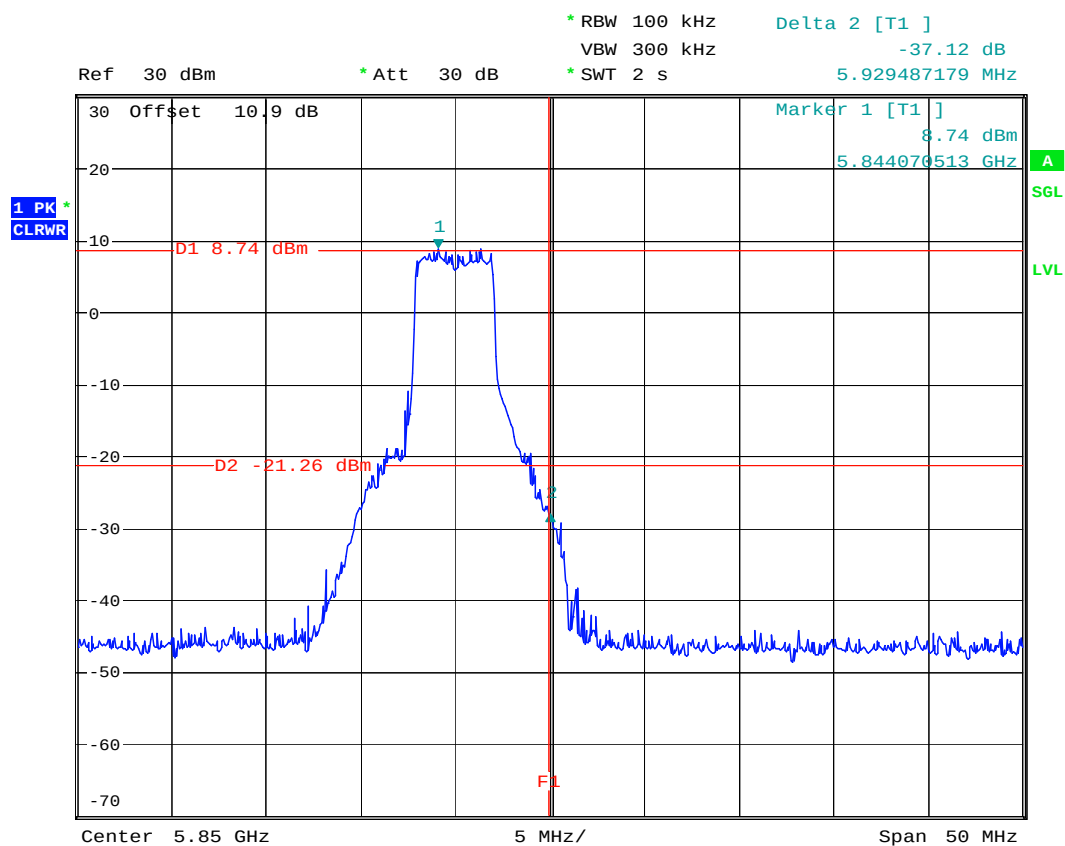
Date: 18.OCT.2007 21:19:29

Radiated Emissions Not in Restricted Bands, continued

30 dBc Band-Edge Check

Channel BW: 5MHz

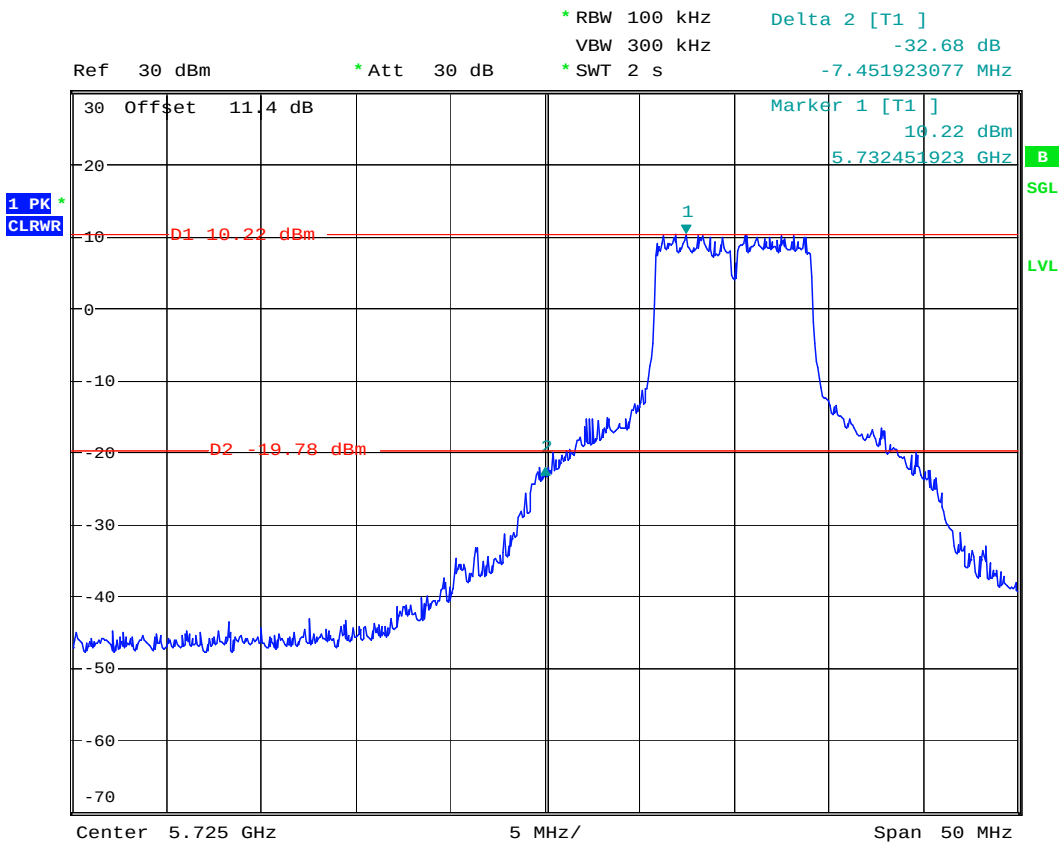
Channel: 5845MHz



Date: 18.OCT.2007 21:28:17

Radiated Emissions Not in Restricted Bands, continued

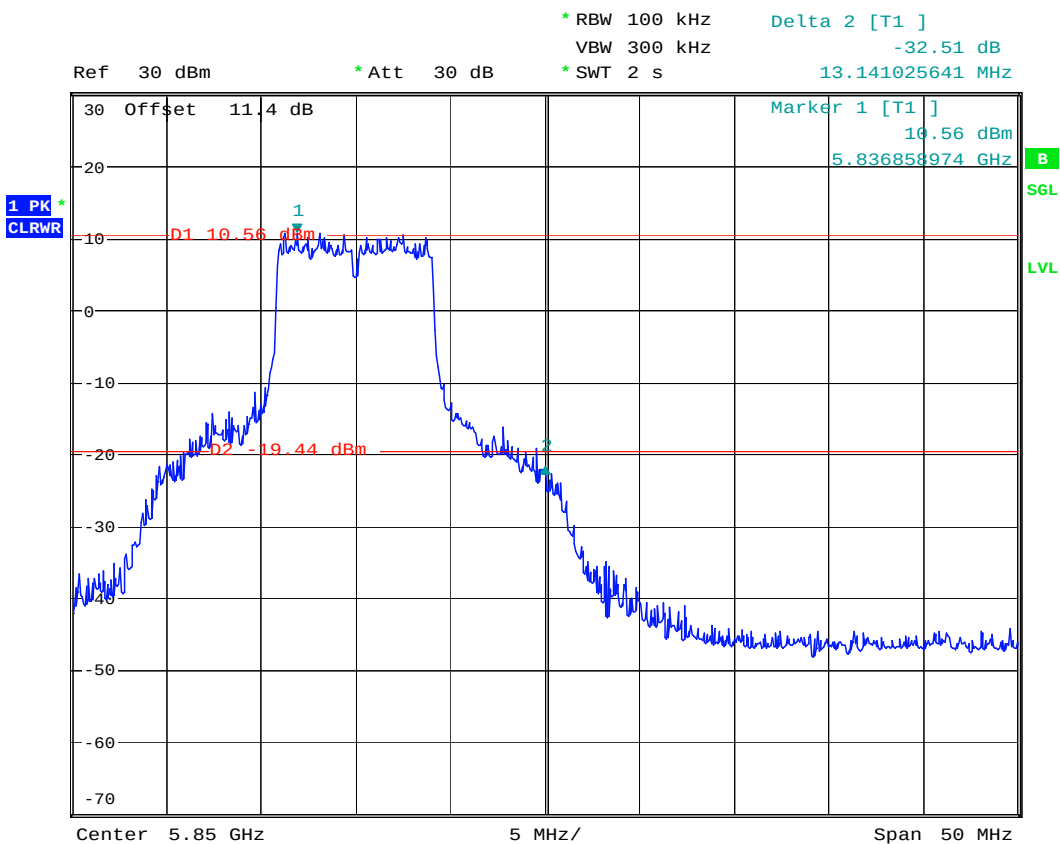
30 dBc Band-Edge Check
Channel BW: 10MHz
Channel: 5735MHz



Date: 17.AUG.2007 16:55:21

Radiated Emissions Not in Restricted Bands, continued

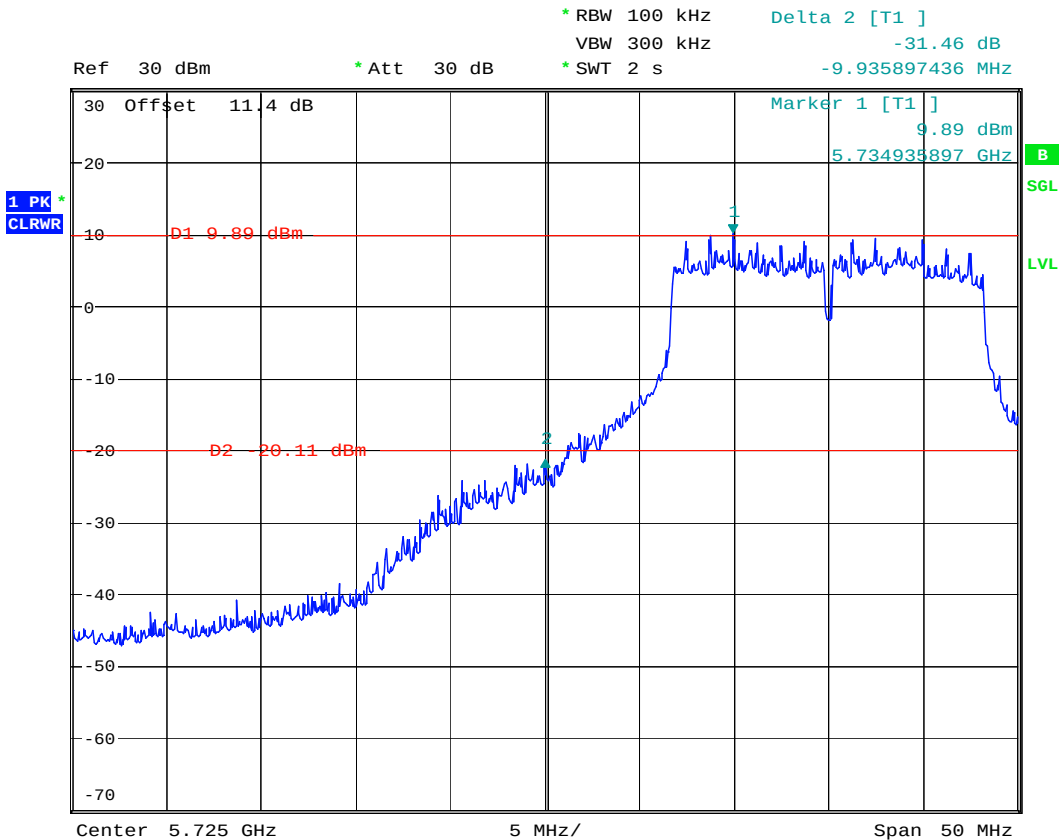
30 dBc Band-Edge Check
Channel BW: 10MHz
Channel: 5840MHz



Date: 17.AUG.2007 16:50:15

Radiated Emissions Not in Restricted Bands, continued

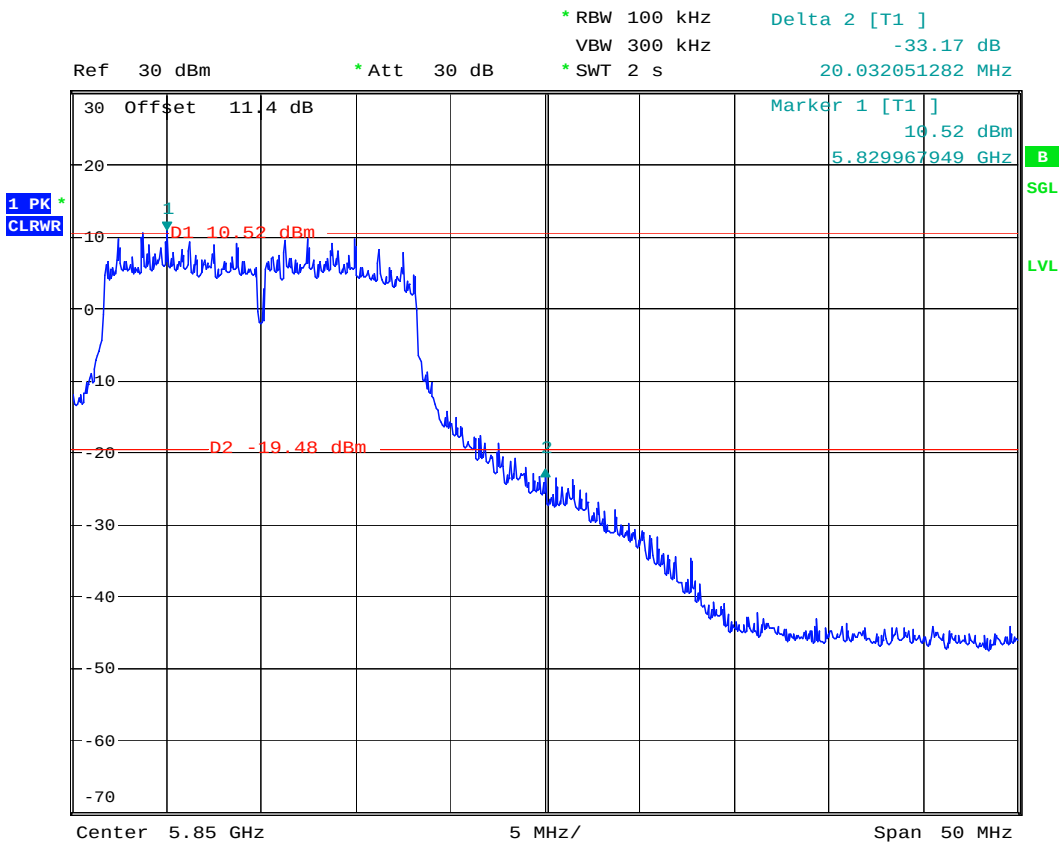
30 dBc Band-Edge Check
Channel BW: 20MHz
Channel: 5740MHz



Date: 17.AUG.2007 16:34:24

Radiated Emissions Not in Restricted Bands, continued

30 dBc Band-Edge Check
Channel BW: 20MHz
Channel: 5835MHz



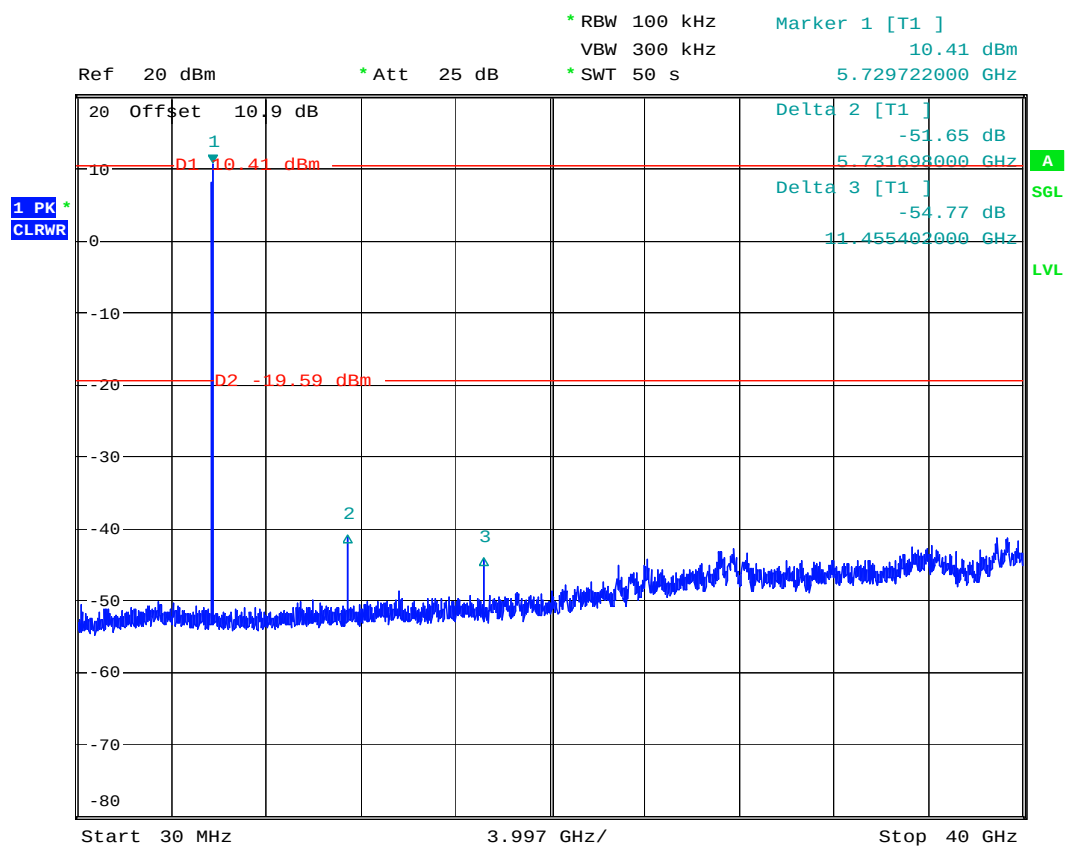
Date: 17.AUG.2007 16:45:07

Radiated Emissions Not in Restricted Bands, continued

30 dBc Emissions Check

Channel BW: 5MHz

Channel: 5730MHz



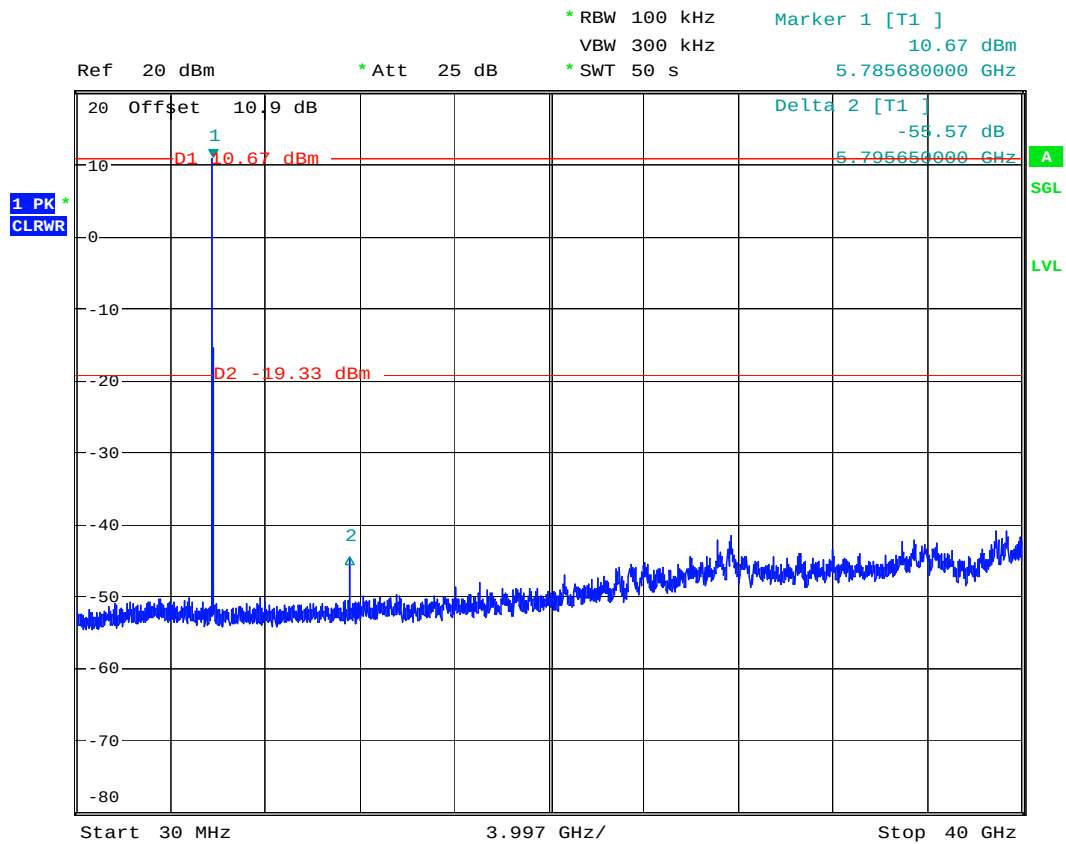
Date: 19.OCT.2007 10:19:20

Radiated Emissions Not in Restricted Bands, continued

30 dBc Emissions Check

Channel BW: 5MHz

Channel: 5790MHz



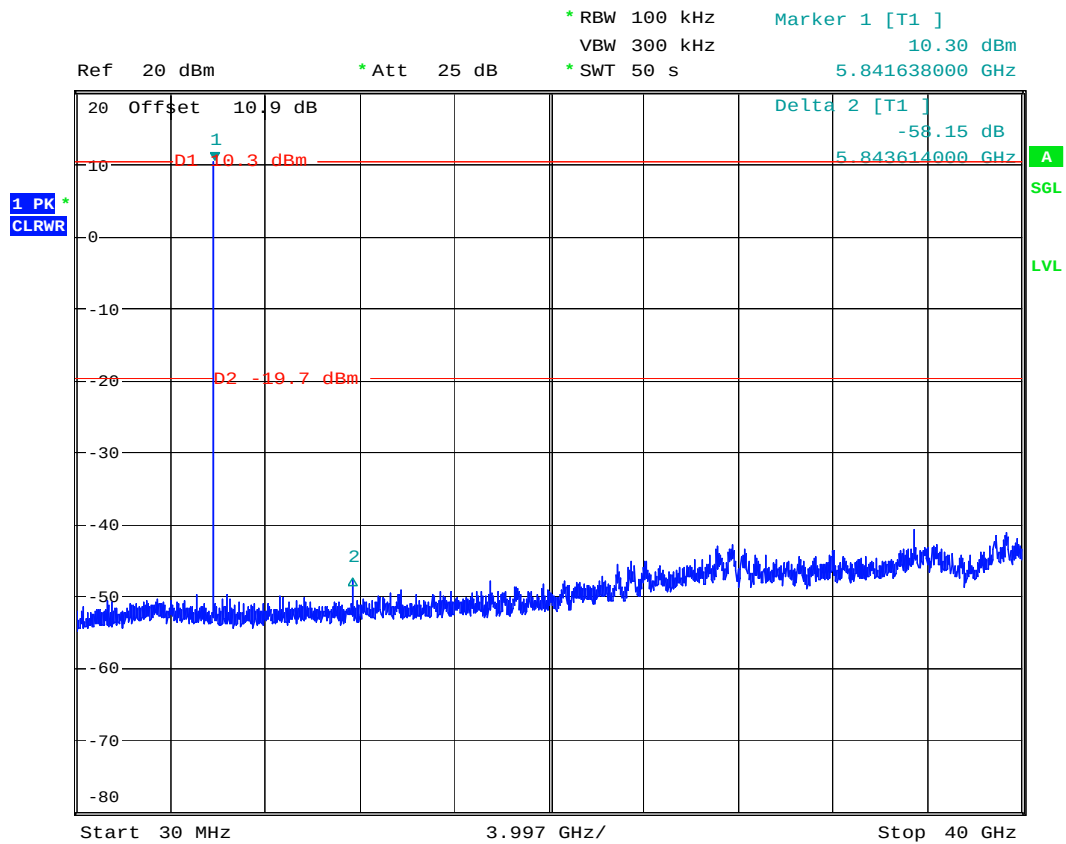
Date: 19.OCT.2007 10:23:29

Radiated Emissions Not in Restricted Bands, continued

30 dBc Emissions Check

Channel BW: 5MHz

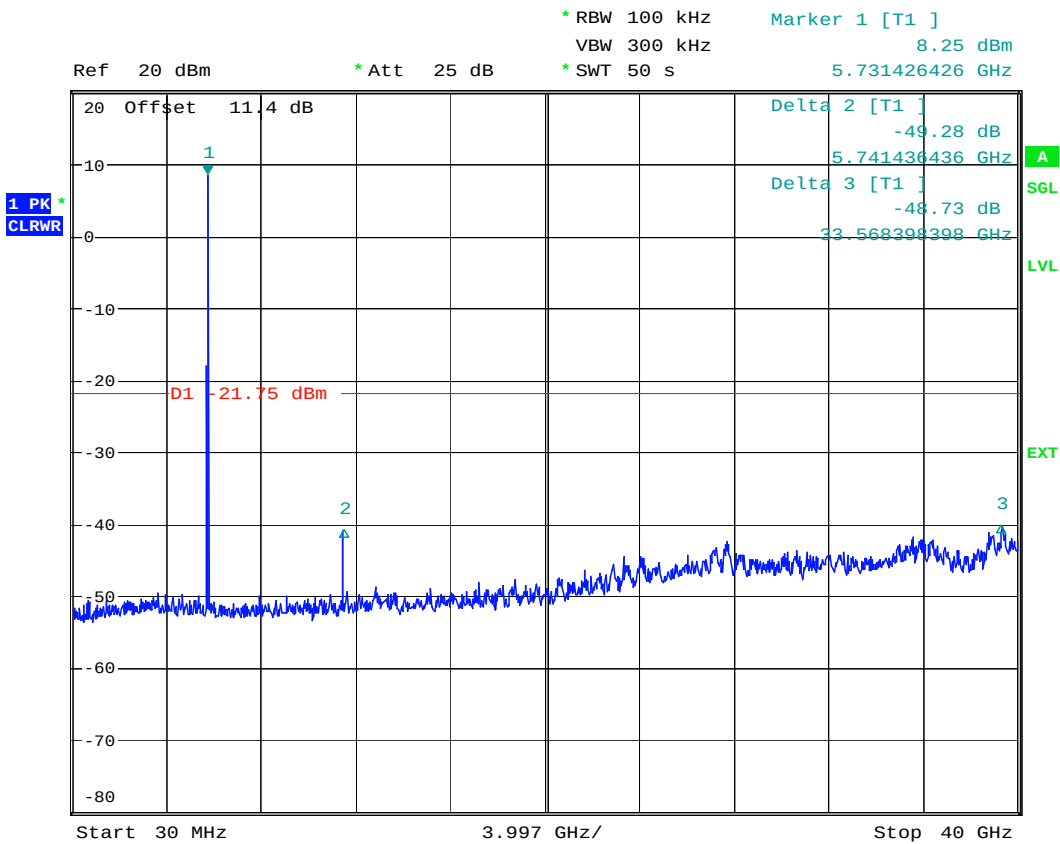
Channel: 5845MHz



Date: 19.OCT.2007 10:29:14

Radiated Emissions Not in Restricted Bands, continued

30 dBc Emissions Check
Channel BW: 10MHz
Channel: 5735MHz



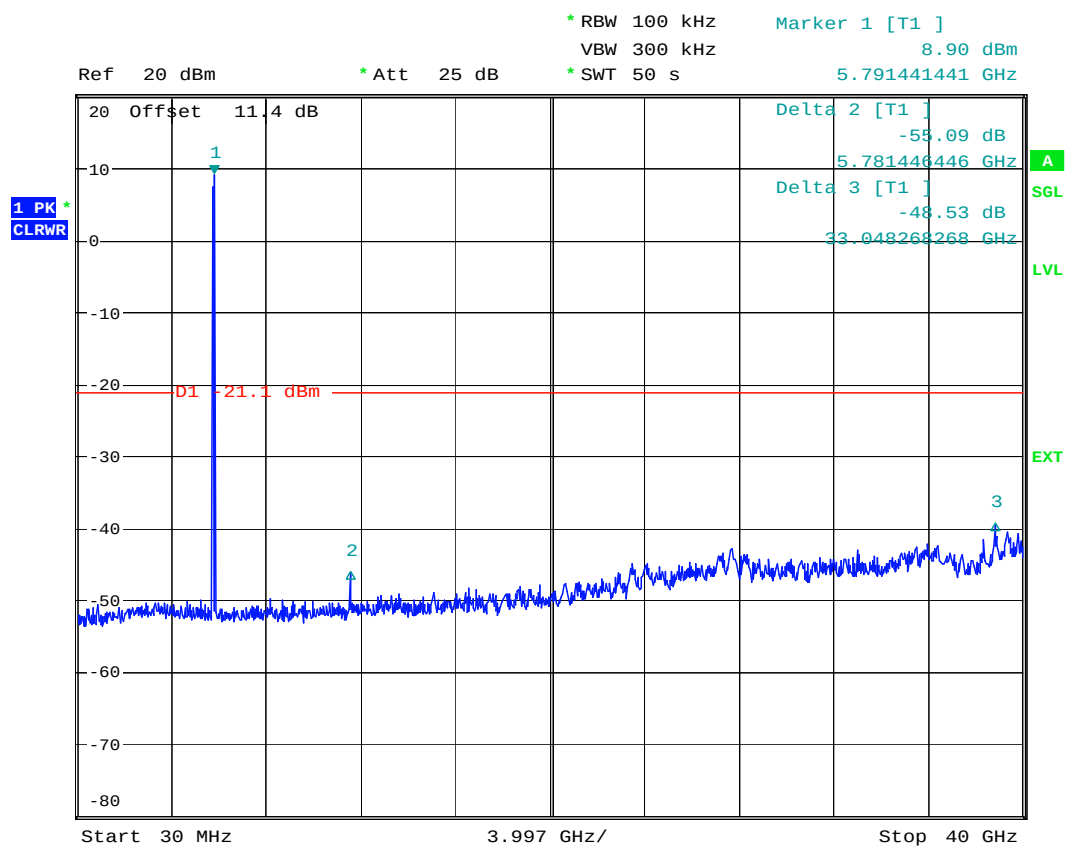
Date: 2.OCT.2007 14:05:42

Radiated Emissions Not in Restricted Bands, continued

30 dBc Emissions Check

Channel BW: 10MHz

Channel: 5790MHz



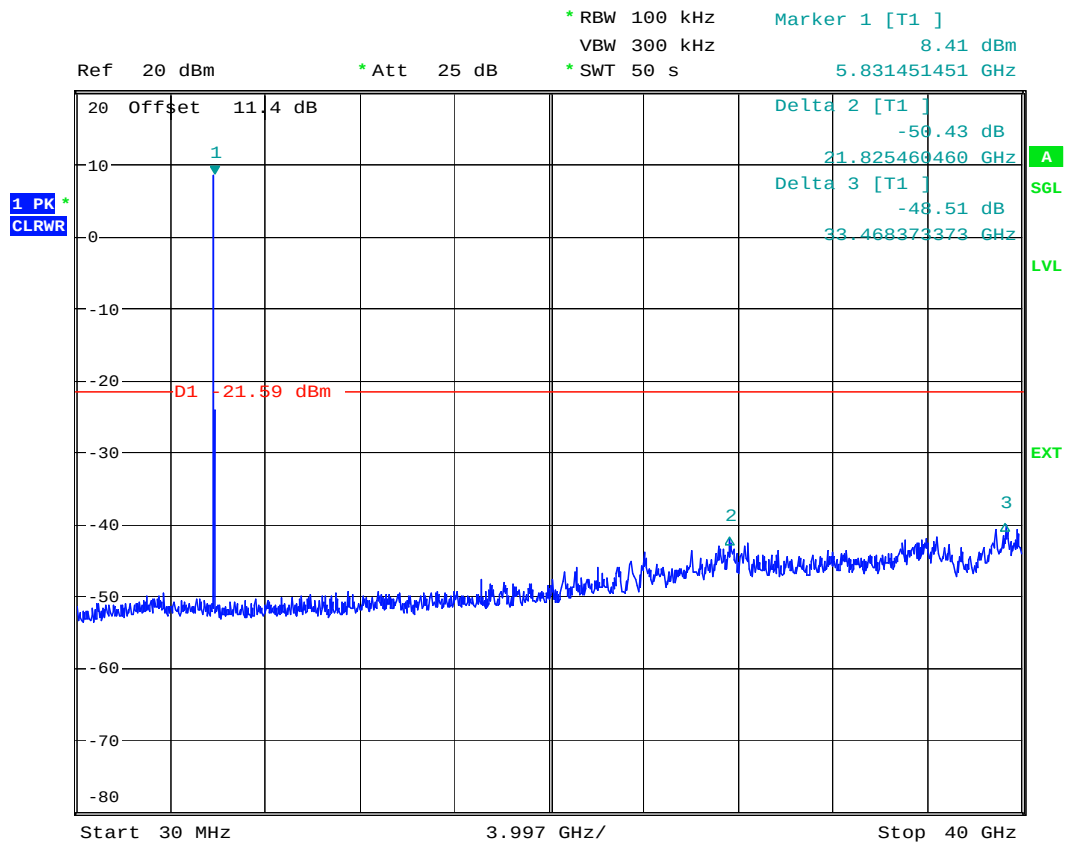
Date: 2.OCT.2007 14:08:25

Radiated Emissions Not in Restricted Bands, continued

30 dBc Emissions Check

Channel BW: 10MHz

Channel: 5840MHz



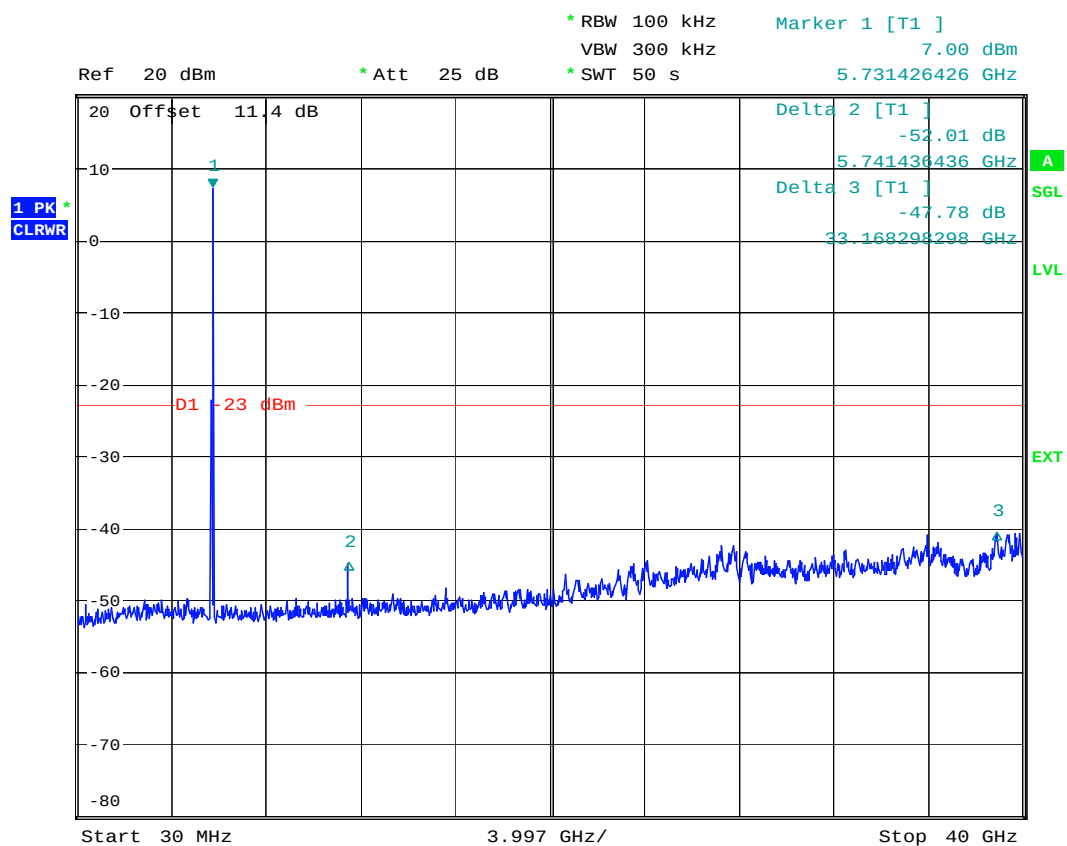
Date: 2.OCT.2007 14:12:31

Radiated Emissions Not in Restricted Bands, continued

30 dBc Emissions Check

Channel BW: 20MHz

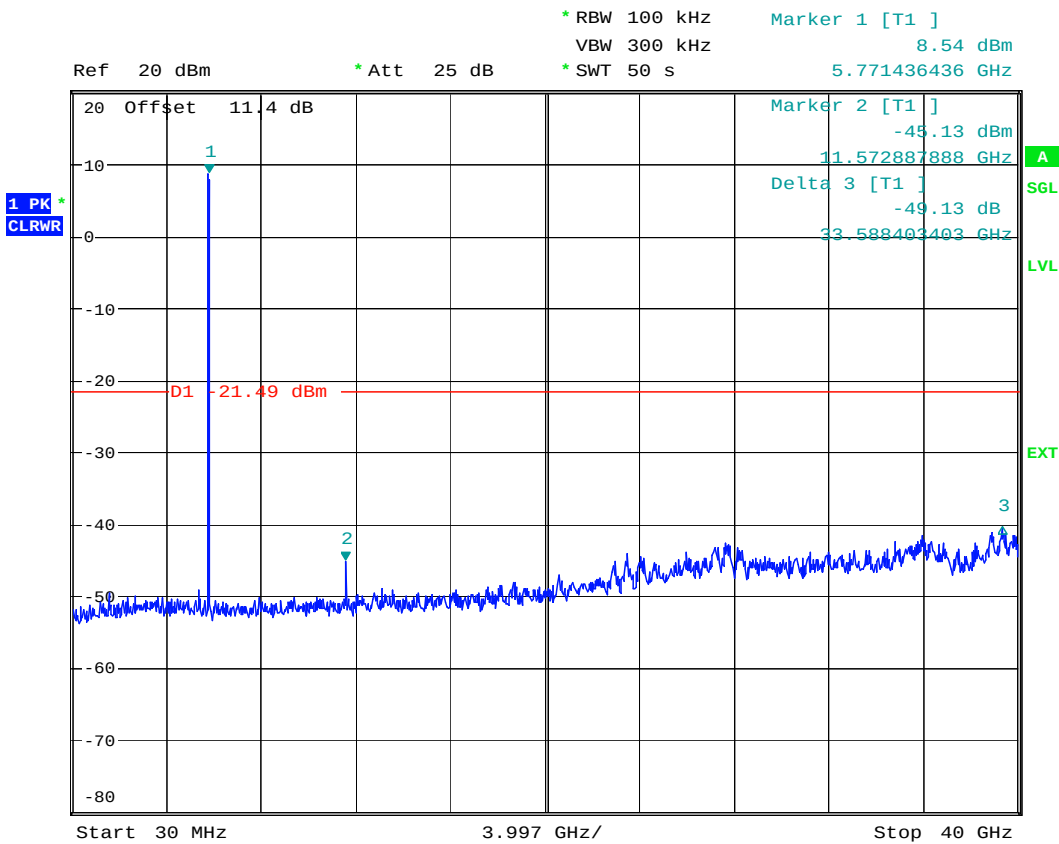
Channel: 5740MHz



Date: 2.OCT.2007 14:17:05

Radiated Emissions Not in Restricted Bands, continued

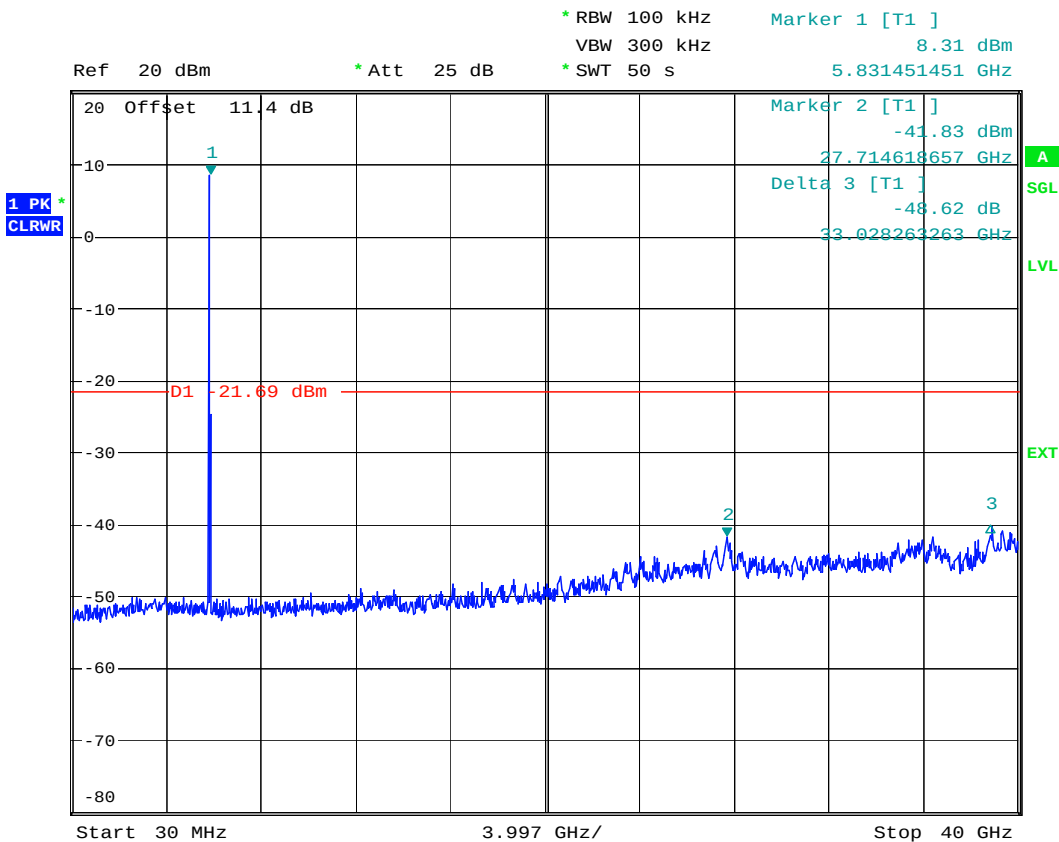
30 dBc Emissions Check
Channel BW: 20MHz
Channel: 5790MHz



Date: 2.OCT.2007 14:29:25

Radiated Emissions Not in Restricted Bands, continued

30 dBc Emissions Check
Channel BW: 20MHz
Channel: 5835MHz



Date: 2.OCT.2007 14:40:27

Radiated Emissions Not in Restricted Bands, continued

Frequency (MHz)	Antenna	Polarity	RCVD Signal (dBμV)	Sig. Sub. Factor	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Detector
63.4501	BC1	V	28.7	-91.3	-62.6	-21.9	40.8	Peak
101.9100	BC1	V	36.5	-90.0	-53.5	-21.9	31.7	Peak
230.0000	BC1	V	24.6	-81.7	-57.0	-21.9	35.2	Peak
296.9951	LP4	V	25.4	-76.9	-51.5	-21.9	29.6	Peak
395.9930	LP4	V	27.3	-81.6	-54.3	-21.9	32.4	Peak
461.9920	LP4	V	22.0	-79.1	-57.0	-21.9	35.2	Peak
500.0000	LP4	V	13.9	-78.0	-64.2	-21.9	42.3	Peak
527.9910	LP4	V	25.2	-78.0	-52.8	-21.9	31.0	Peak
577.4900	LP4	V	34.4	-77.4	-43.0	-21.9	21.1	Peak
659.9889	LP4	V	27.8	-74.9	-47.1	-21.9	25.3	Peak
758.9878	LP4	V	24.0	-74.1	-50.1	-21.9	28.2	Peak
808.4870	LP4	V	33.4	-73.9	-40.5	-21.9	18.6	Peak
857.9862	LP4	V	19.7	-73.7	-54.0	-21.9	32.1	Peak
63.4501	BC1	H	21.6	-90.6	-69.0	-21.9	47.2	Peak
101.9100	BC1	H	32.4	-90.1	-57.6	-21.9	35.8	Peak
230.0000	BC1	H	25.2	-84.4	-59.2	-21.9	37.4	Peak
296.9951	LP4	H	34.6	-81.7	-47.1	-21.9	25.2	Peak
395.9930	LP4	H	29.4	-82.1	-52.8	-21.9	30.9	Peak
461.9920	LP4	H	21.1	-80.6	-59.4	-21.9	37.6	Peak
500.0000	LP4	H	15.1	-79.8	-64.7	-21.9	42.8	Peak
527.9910	LP4	H	23.2	-79.4	-56.3	-21.9	34.4	Peak
577.4900	LP4	H	29.8	-78.4	-48.7	-21.9	26.8	Peak
659.9889	LP4	H	27.2	-76.9	-49.7	-21.9	27.9	Peak
758.9878	LP4	H	29.9	-75.2	-45.4	-21.9	23.5	Peak
808.4870	LP4	H	37.4	-74.4	-37.0	-21.9	15.2	Peak
857.9862	LP4	H	17.5	-74.0	-56.5	-21.9	34.7	Peak

NOTES:

(5) Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole

(6) Tested with the highest gain antenna (30dBi).

The lowest carrier level ($EIRP_{min}$):

$$EIRP_{min} = 30.3\text{dBm} / (16.4\text{MHz}) = 30.3\text{dBm} + 10 \cdot \log_{10}(0.1\text{MHz}/16.4\text{MHz})$$

$$EIRP_{min} = 30.3\text{dBm} - 22.15\text{dB} = 8.15\text{dBm} / (100\text{kHz})$$

$$\text{Emission Limit} = EIRP_{min} - 30\text{dBc} = -21.85\text{dBm}$$

Clause 15.247(e) Power Spectral Density for Digitally Modulated Devices

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Conditions:

Sample Number:	1	Temperature (°C):	25°C
Date:	Aug. 21 – Oct. 19, 2007	Humidity (%):	48 %
Modification State:	0	Tester:	Roman Kuleba
		Laboratory:	Ottawa

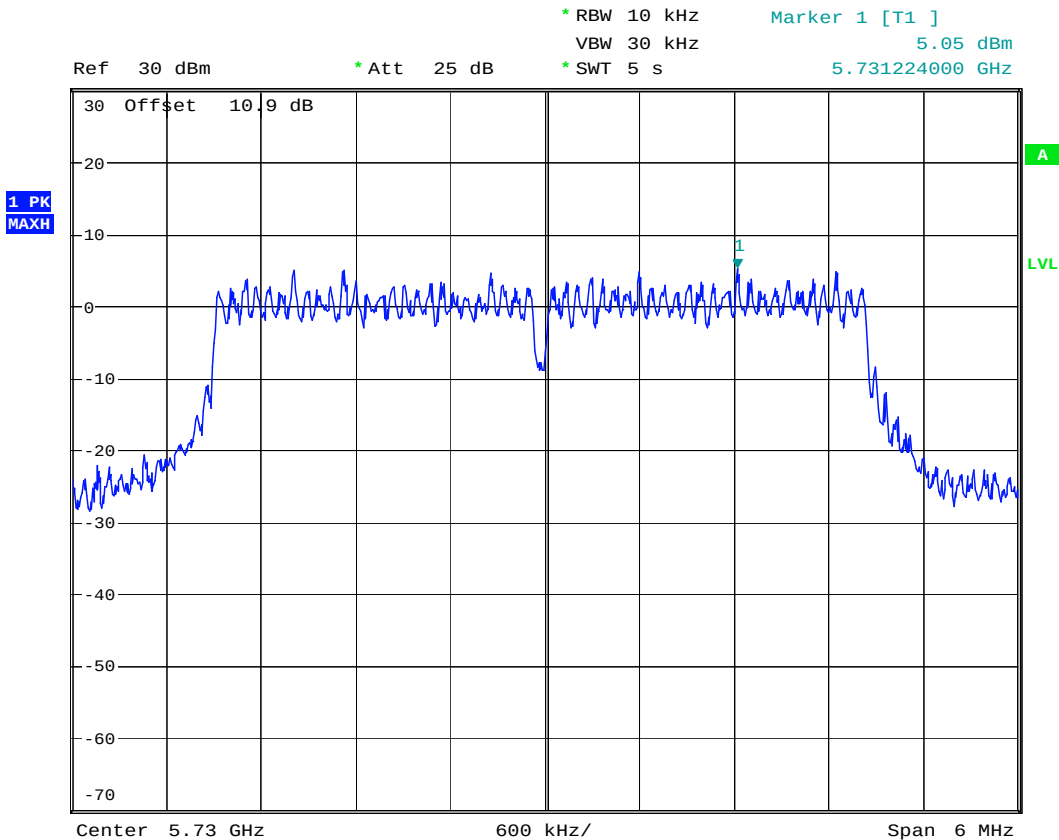
Test Results: See attached plots and tables.

Additional Observations:

The Power Spectral Density was measured on the antenna port by means of a spectrum analyzer and following procedure described in '*PSD Option 1*' in FCC guidelines for Measurement of Digital Transmission Systems operating under Section 15.247 (because condition 2 in '*PSD Option 2*' could not be achieved, the test procedure was reverted to '*PSD Option 1*').

Power Spectral Density for Digitally Modulated Devices, continued

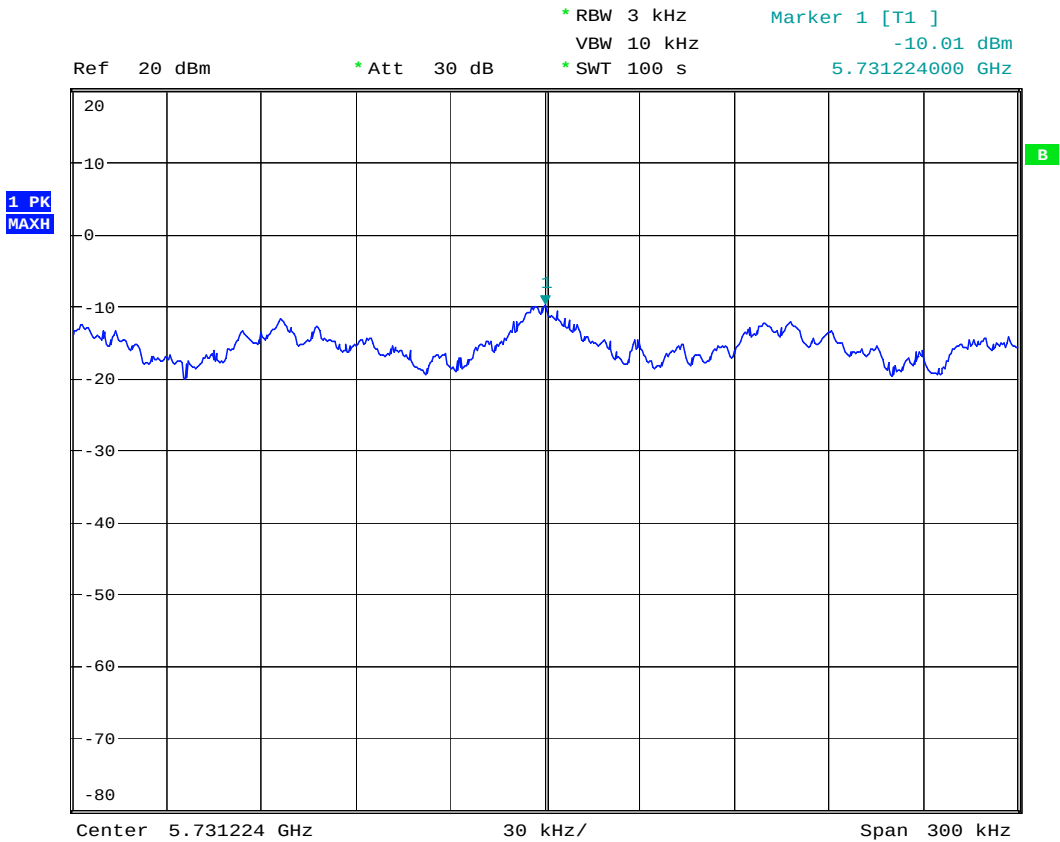
Channel BW: 5 MHz
TX-channel: 5730 MHz
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 19.OCT.2007 14:07:00

Power Spectral Density for Digitally Modulated Devices, continued

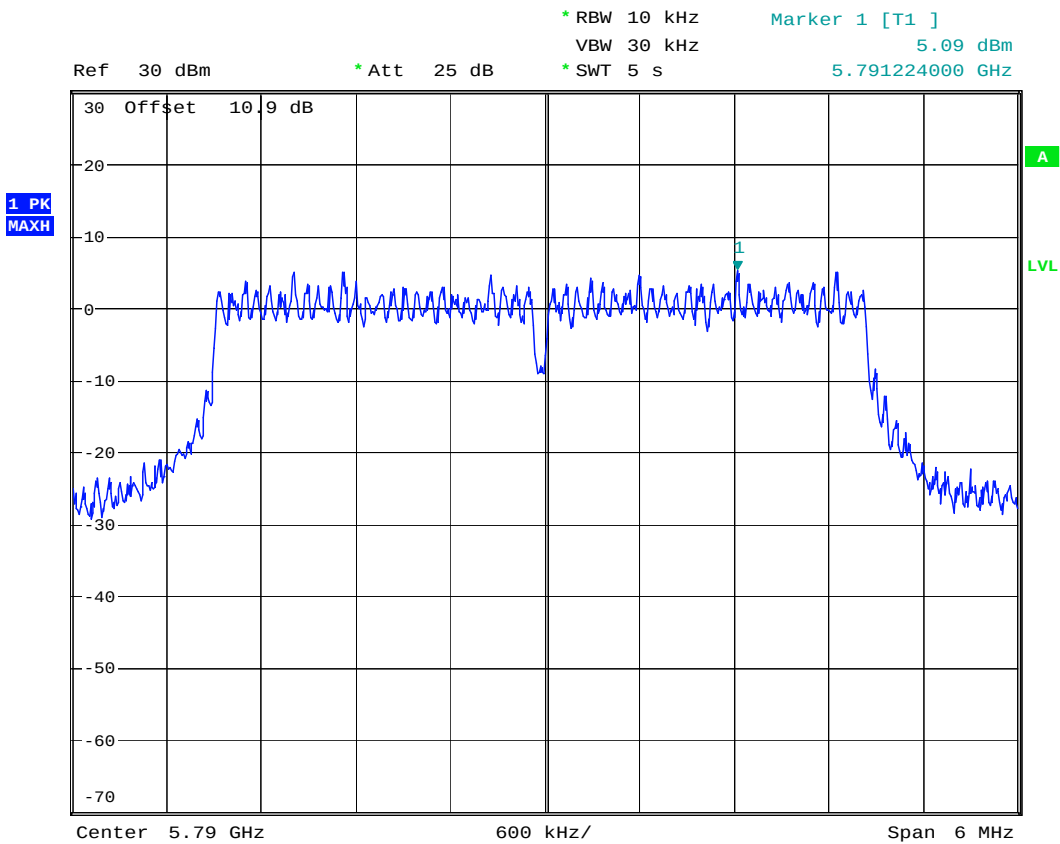
Channel BW: 5 MHz
TX-channel: 5730 MHz
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 19.OCT.2007 14:11:06

Power Spectral Density for Digitally Modulated Devices, continued

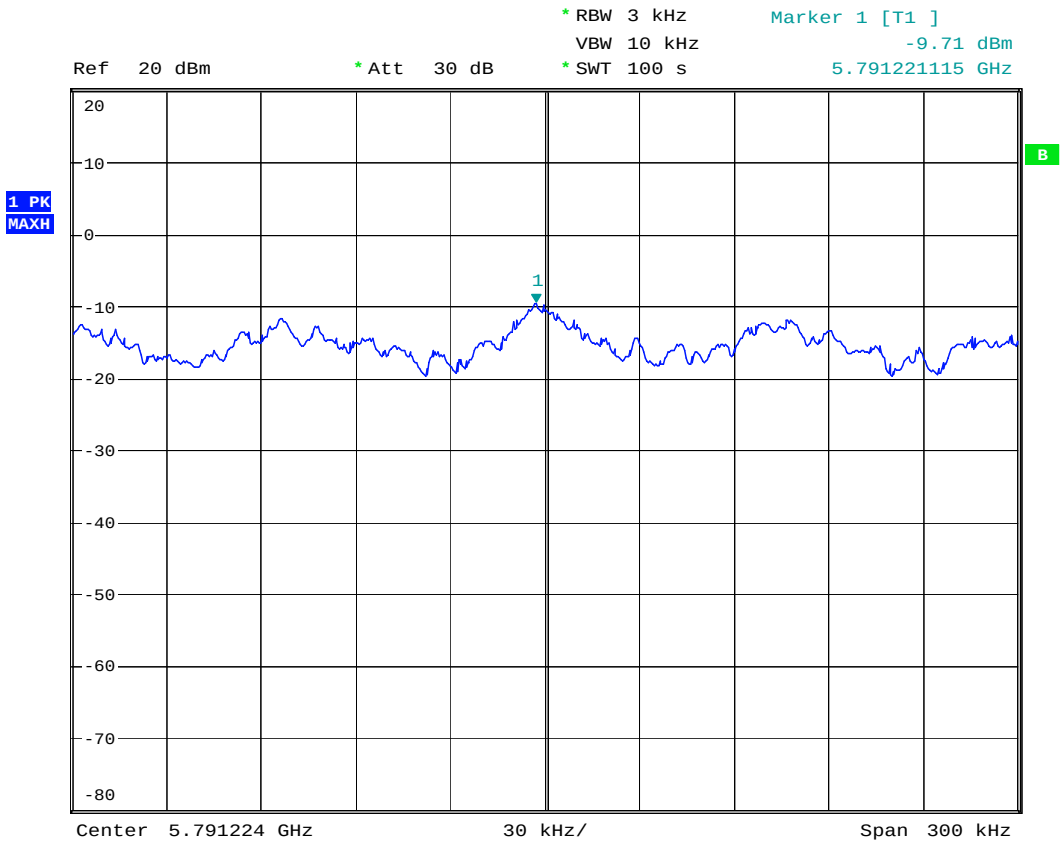
Channel BW: 5 MHz
TX-channel: 5790 MHz
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 19.OCT.2007 11:50:13

Power Spectral Density for Digitally Modulated Devices, continued

Channel BW: 5 MHz
TX-channel: 5790 MHz
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



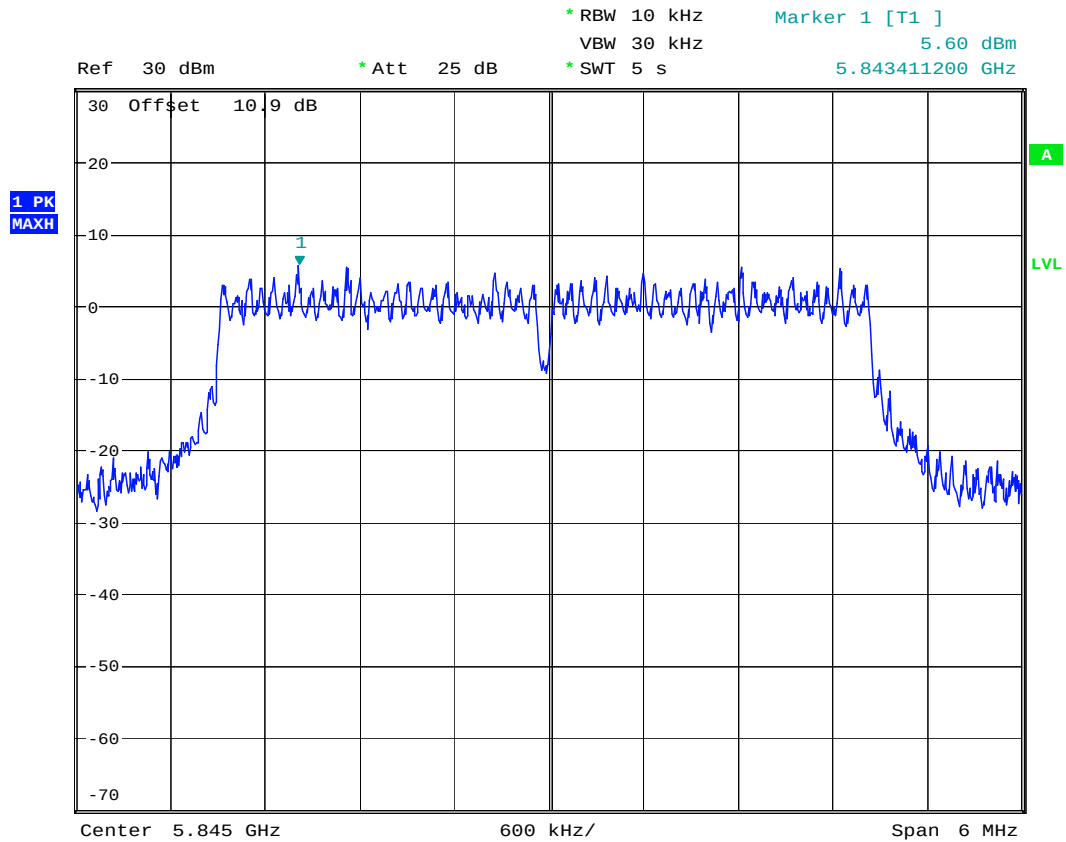
Date: 19.OCT.2007 11:54:17

Power Spectral Density for Digitally Modulated Devices, continued

Channel BW: 5 MHz

TX-channel: 5845 MHz

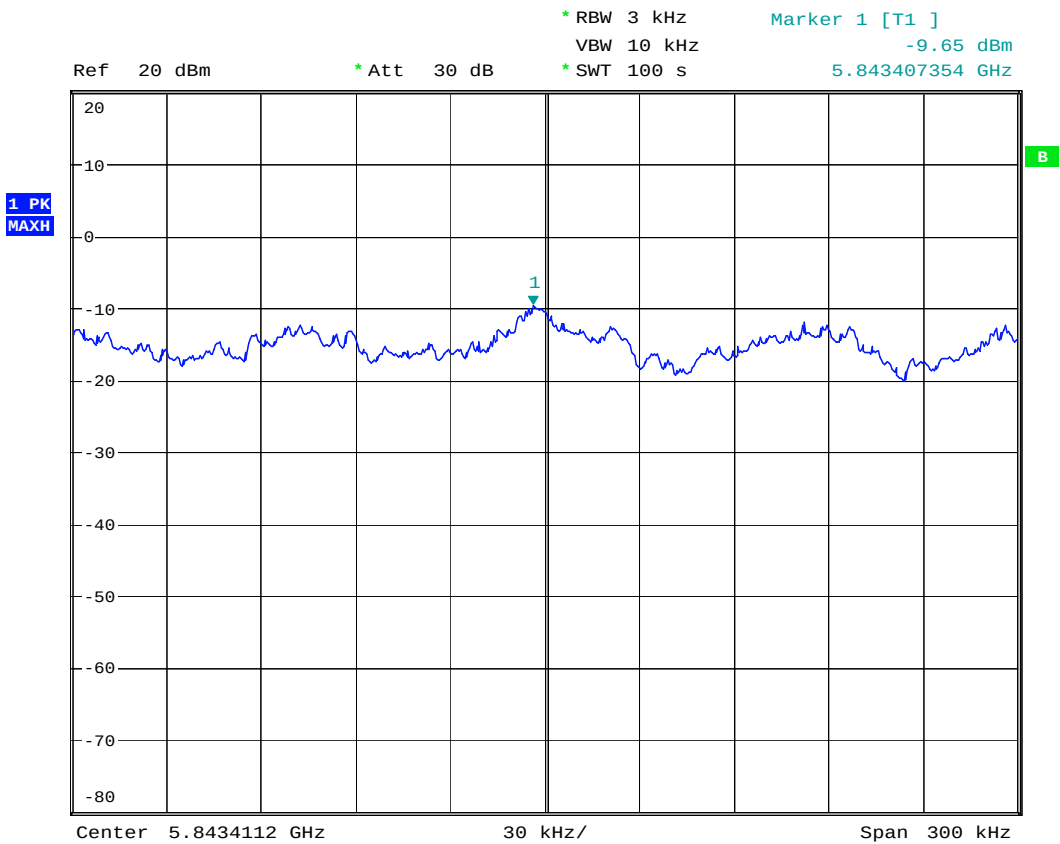
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 19.OCT.2007 11:57:20

Power Spectral Density for Digitally Modulated Devices, continued

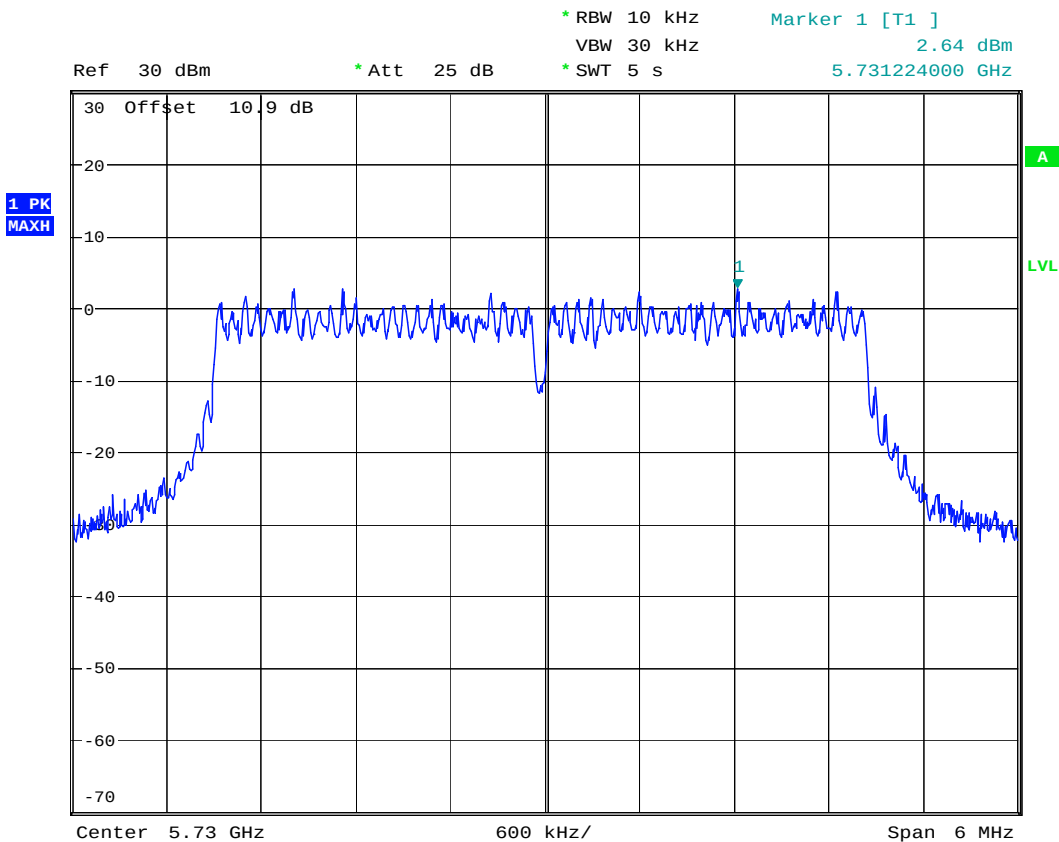
Channel BW: 5 MHz
TX-channel: 5845 MHz
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 19.OCT.2007 12:01:38

Power Spectral Density for Digitally Modulated Devices, continued

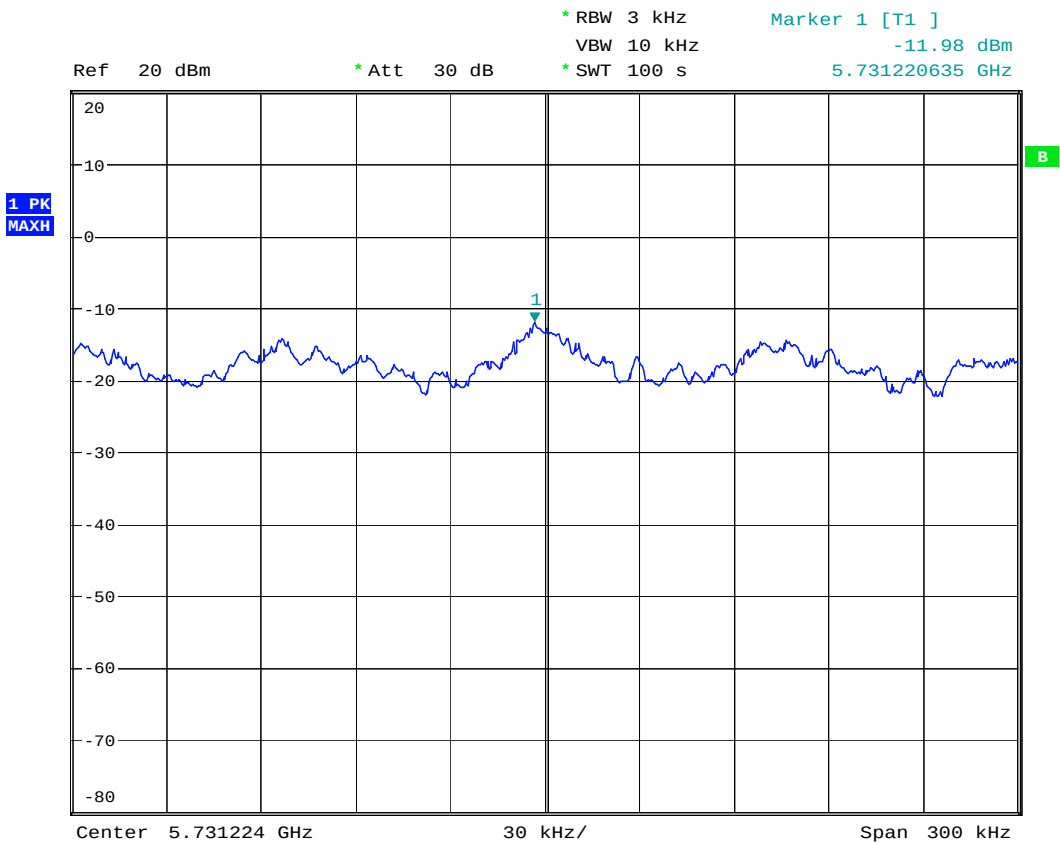
Channel BW: 5 MHz
TX-channel: 5730 MHz
Antenna Gain: 18dBi



Date: 19.OCT.2007 14:27:20

Power Spectral Density for Digitally Modulated Devices, continued

Channel BW: 5 MHz
TX-channel: 5730 MHz
Antenna Gain: 18dBi



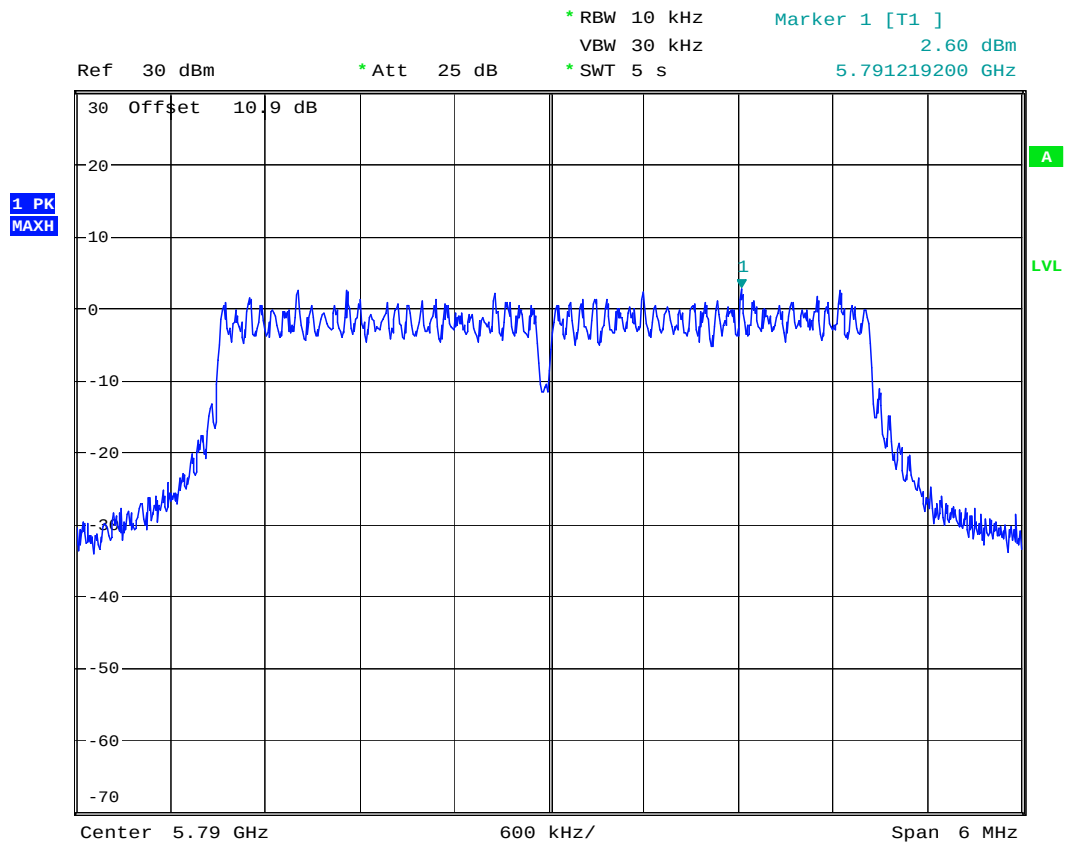
Date: 19.OCT.2007 14:31:30

Power Spectral Density for Digitally Modulated Devices, continued

Channel BW: 5 MHz

TX-channel: 5790 MHz

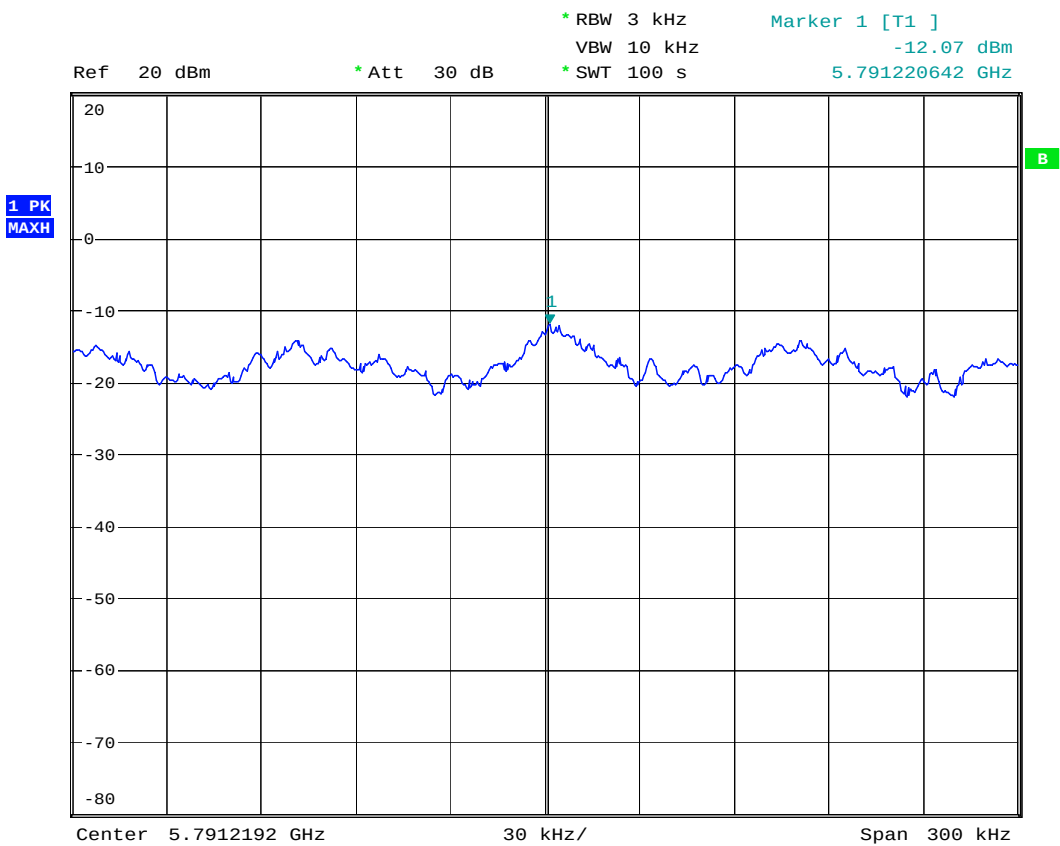
Antenna Gain: 18dBi



Date: 19.OCT.2007 14:38:16

Power Spectral Density for Digitally Modulated Devices, continued

Channel BW: 5 MHz
TX-channel: 5790 MHz
Antenna Gain: 18dBi



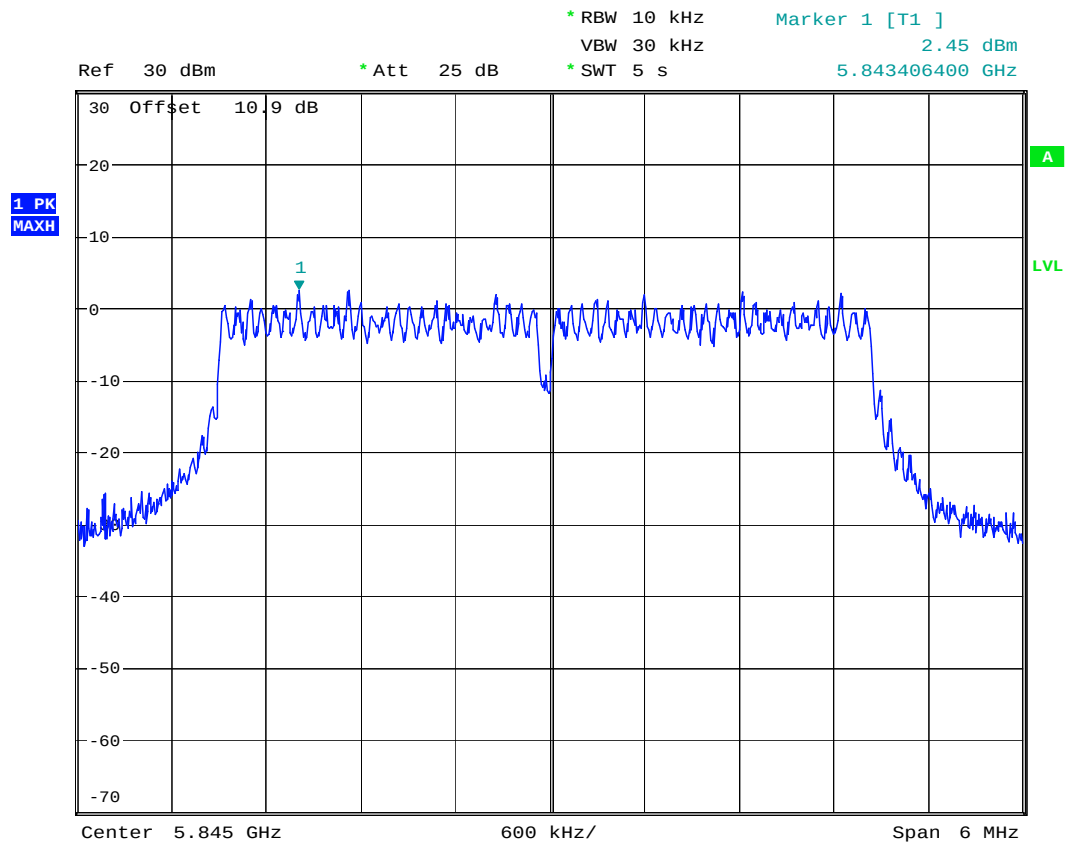
Date: 19.OCT.2007 14:44:29

Power Spectral Density for Digitally Modulated Devices, continued

Channel BW: 5 MHz

TX-channel: 5845 MHz

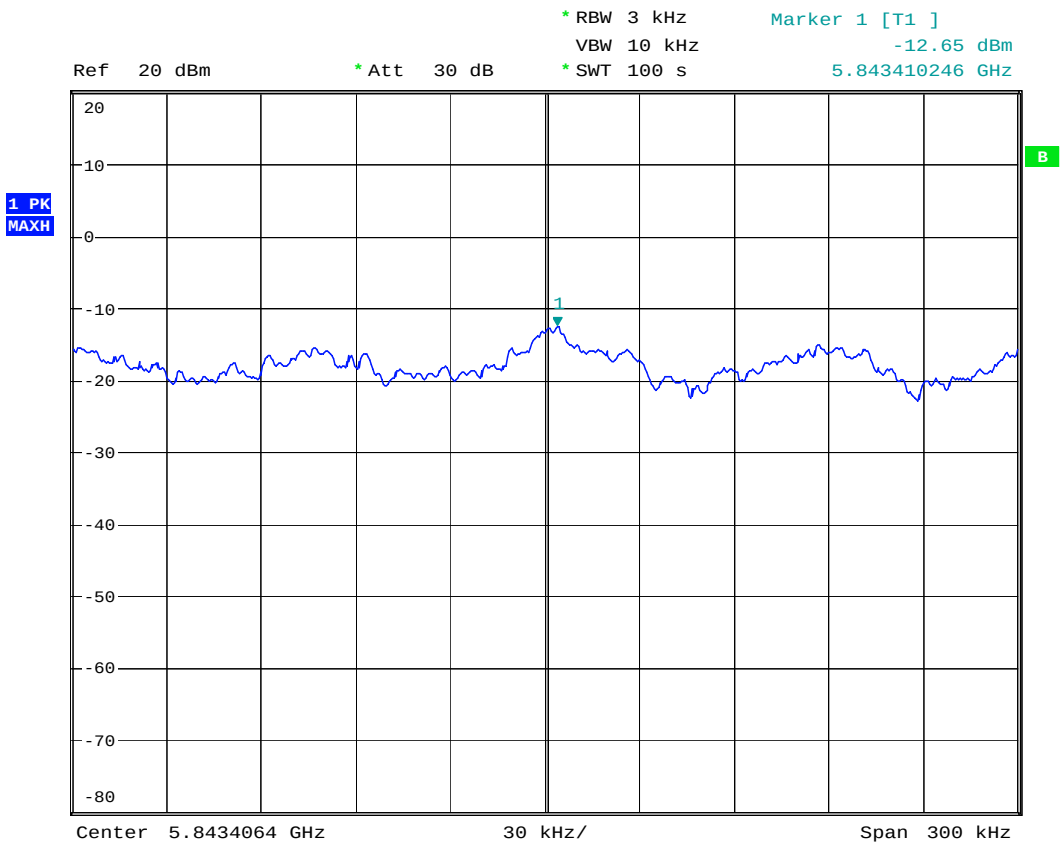
Antenna Gain: 18dBi



Date: 19.OCT.2007 14:50:07

Power Spectral Density for Digitally Modulated Devices, continued

Channel BW: 5 MHz
TX-channel: 5845 MHz
Antenna Gain: 18dBi



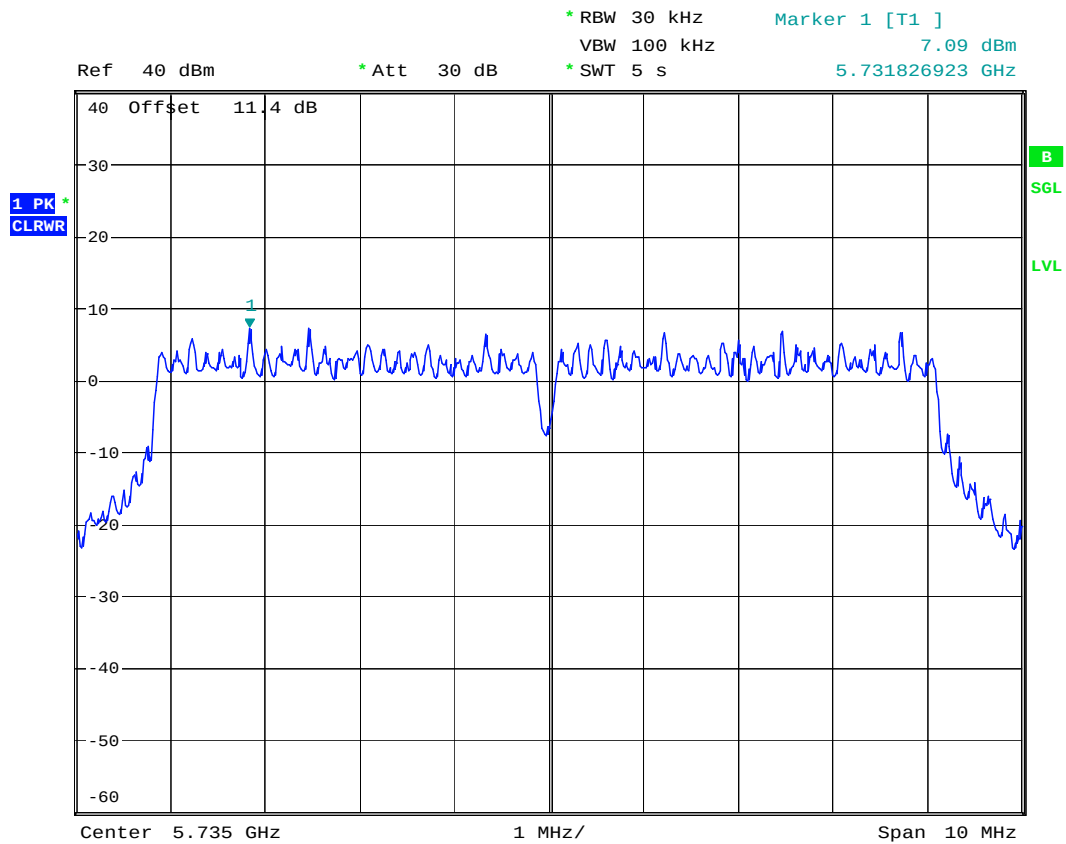
Date: 19.OCT.2007 14:58:59

Power Spectral Density for Digitally Modulated Devices, continued

Channel BW: 10 MHz

TX-channel: 5735 MHz

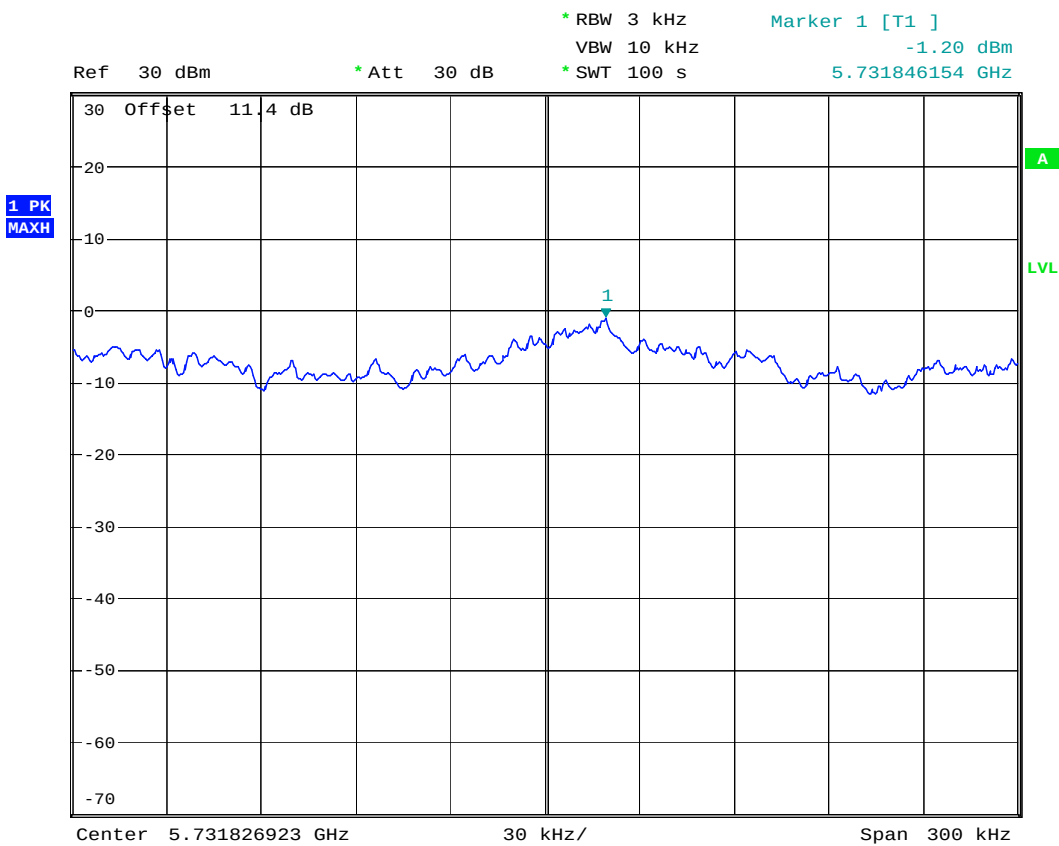
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 21.AUG.2007 11:22:10

Power Spectral Density for Digitally Modulated Devices, continued

Channel BW: 10 MHz
TX-channel: 5735 MHz
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



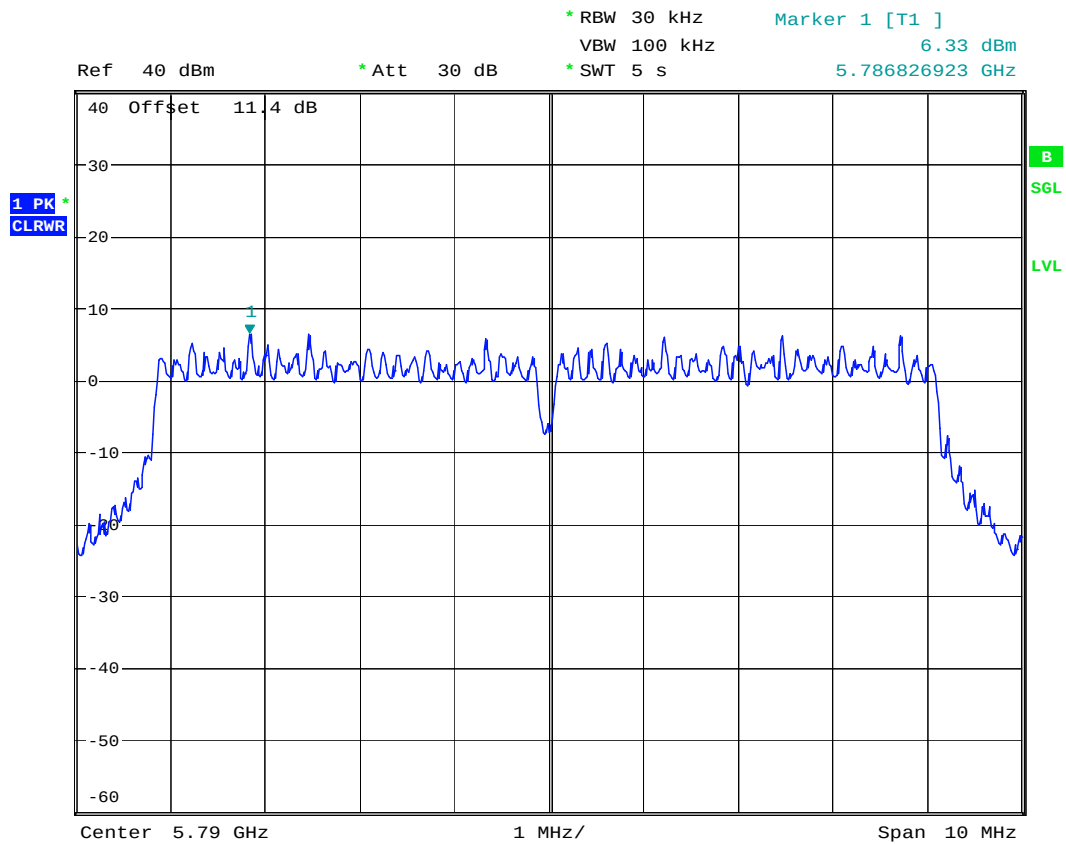
Date: 21.AUG.2007 11:33:31

Power Spectral Density for Digitally Modulated Devices, continued

Channel BW: 10 MHz

TX-channel: 5790 MHz

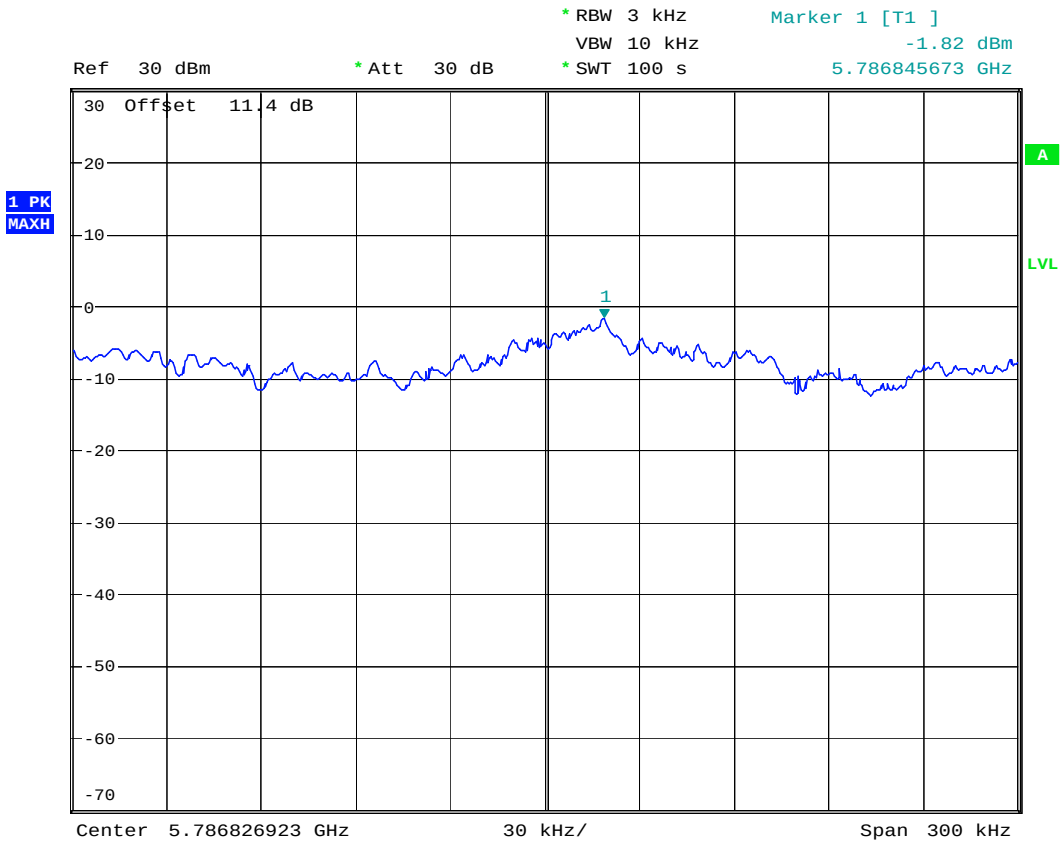
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 21.AUG.2007 11:37:45

Power Spectral Density for Digitally Modulated Devices, continued

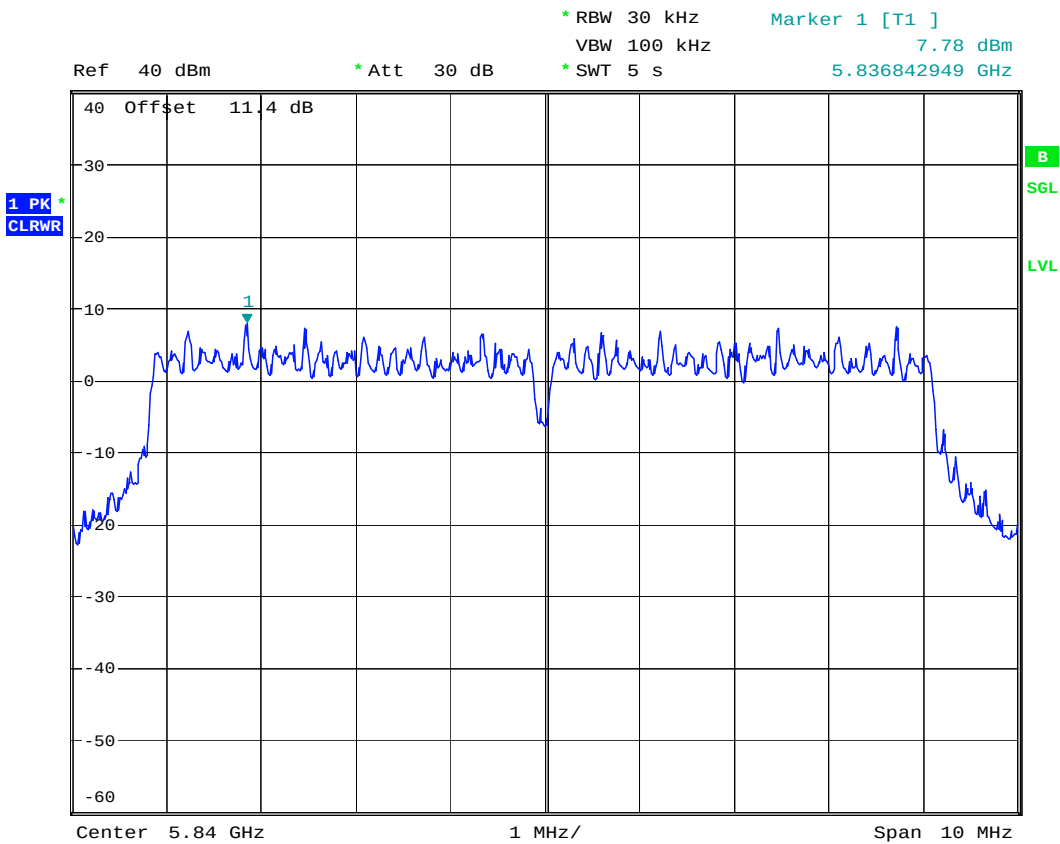
Channel BW: 10 MHz
TX-channel: 5790 MHz
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 21.AUG.2007 11:42:34

Power Spectral Density for Digitally Modulated Devices, continued

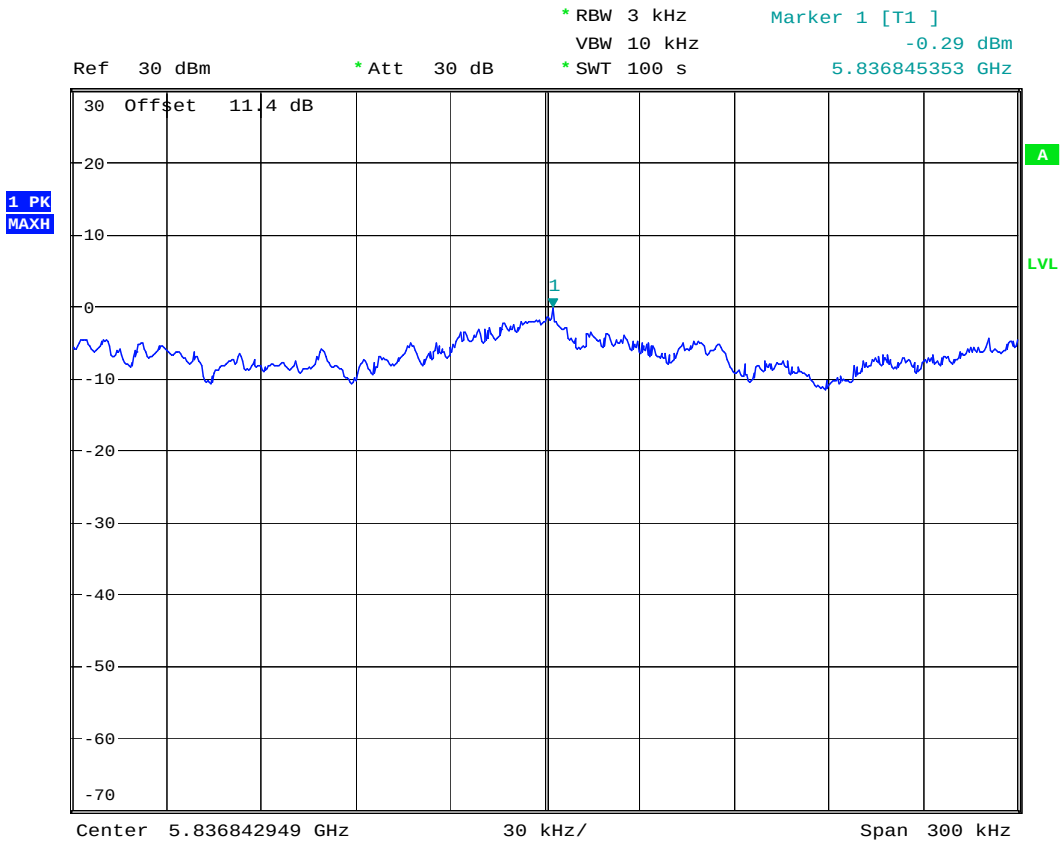
Channel BW: 10 MHz
TX-channel: 5840 MHz
Antenna Gain: 10dBi, 10.5dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 21.AUG.2007 12:15:09

Power Spectral Density for Digitally Modulated Devices, continued

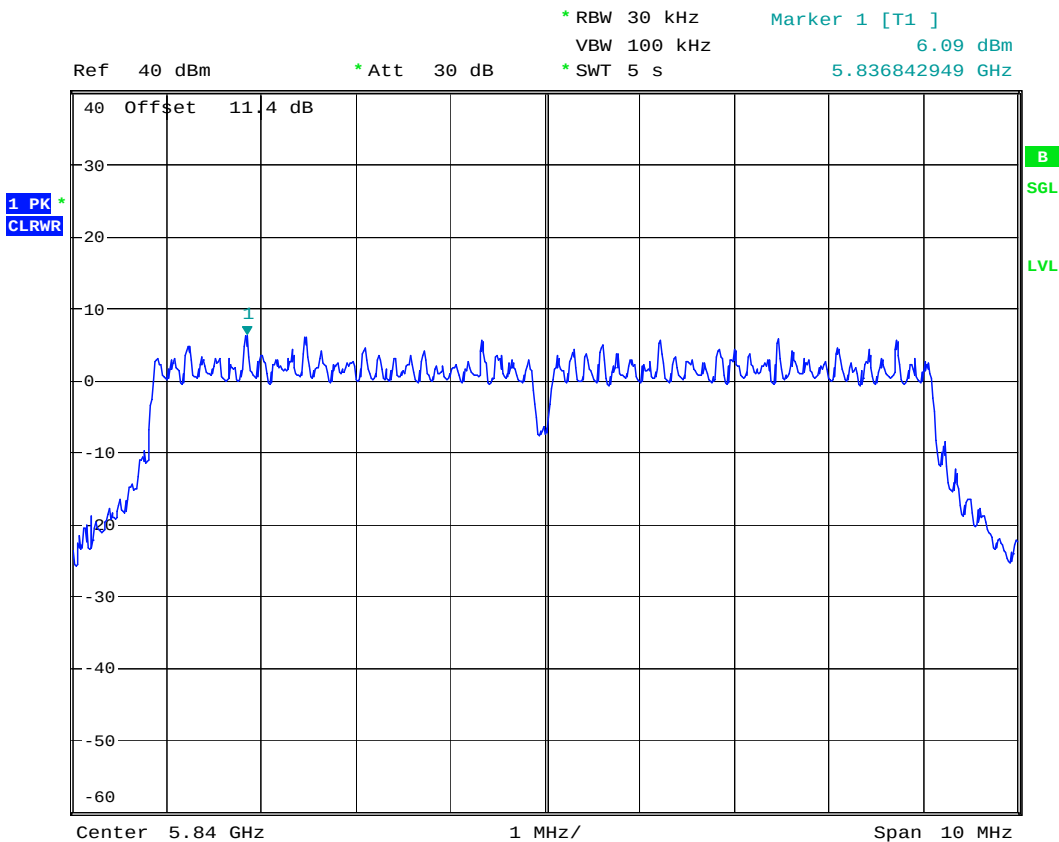
Channel BW: 10 MHz
TX-channel: 5840 MHz
Antenna Gain: 10dBi, 10.5dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 21.AUG.2007 12:24:01

Power Spectral Density for Digitally Modulated Devices, continued

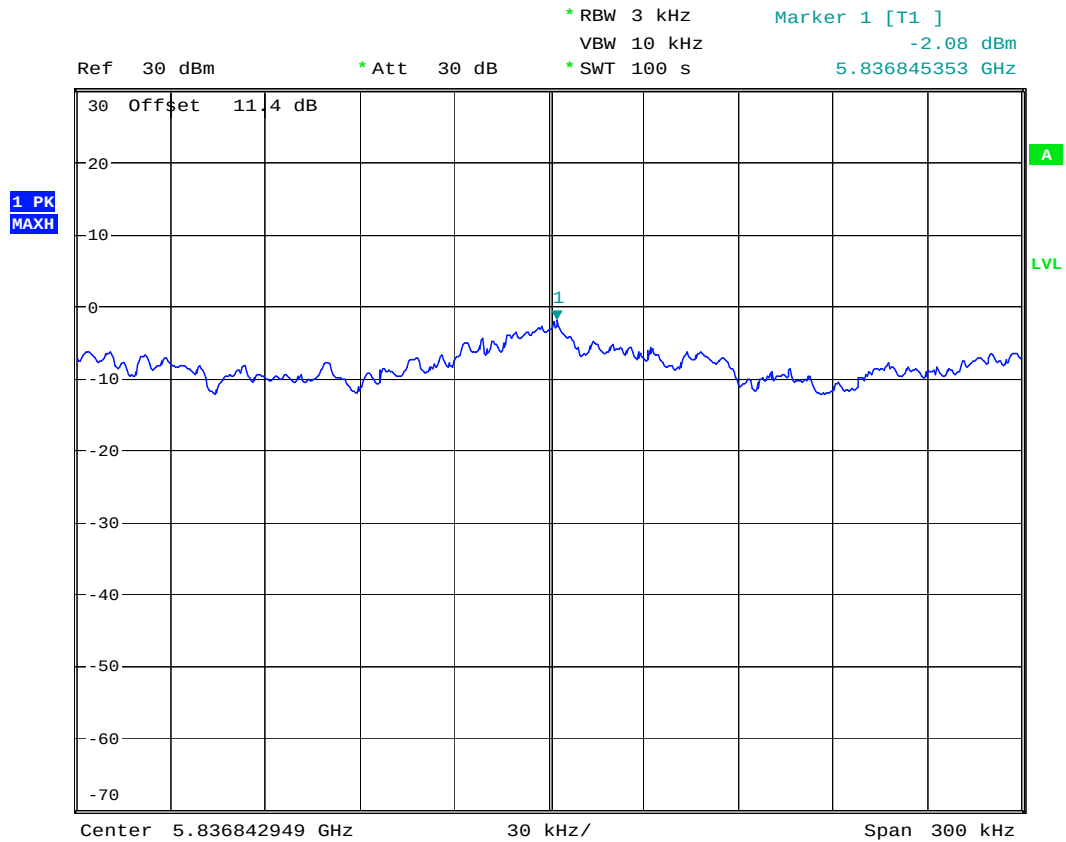
Channel BW: 10 MHz
TX-channel: 5840 MHz
Antenna Gain: 15dBi



Date: 21.AUG.2007 12:27:40

Power Spectral Density for Digitally Modulated Devices, continued

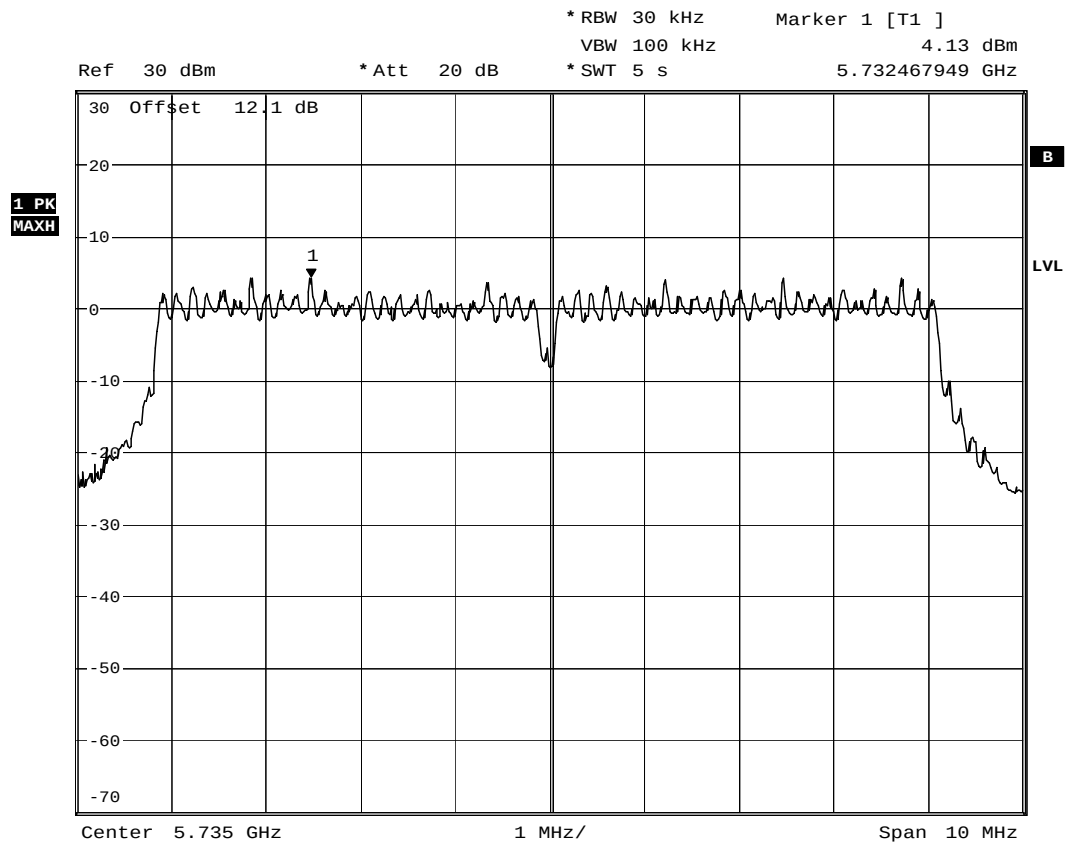
Channel BW: 10 MHz
TX-channel: 5840 MHz
Antenna Gain: 15dBi



Date: 21.AUG.2007 12:32:21

Power Spectral Density for Digitally Modulated Devices, continued

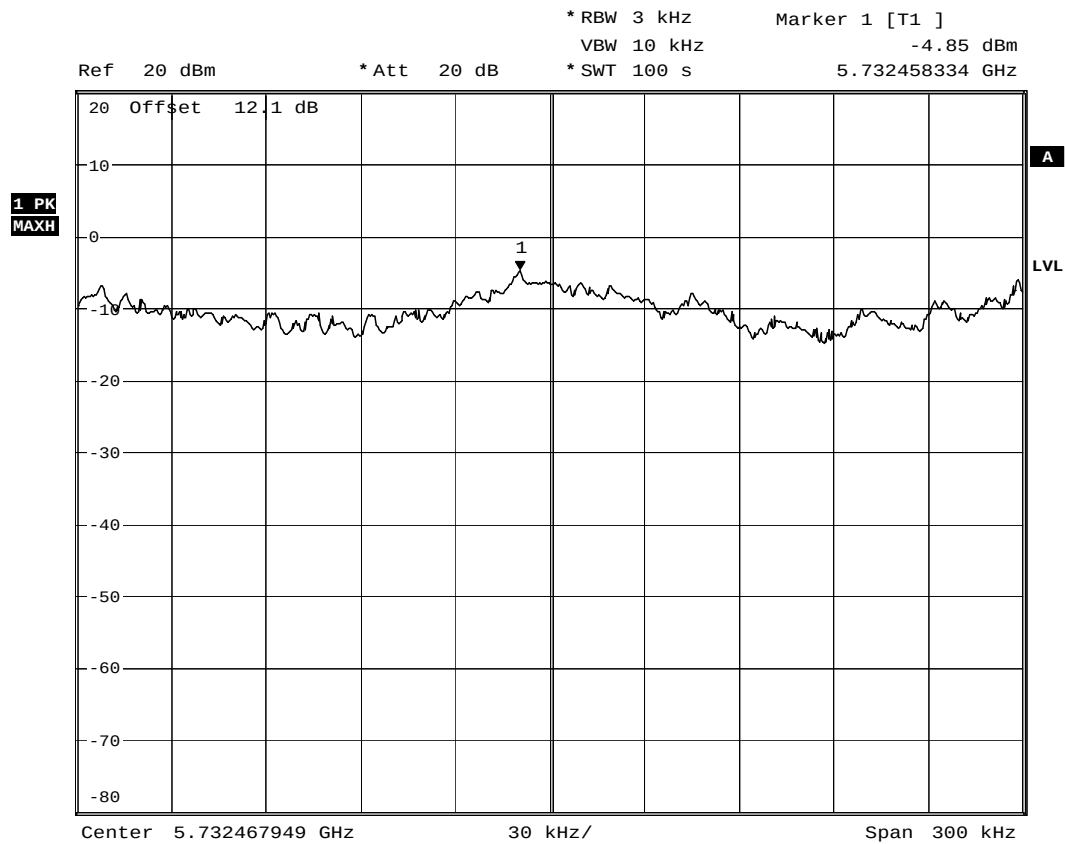
Channel BW: 10 MHz
TX-channel: 5735 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 11:52:10

Power Spectral Density for Digitally Modulated Devices, continued

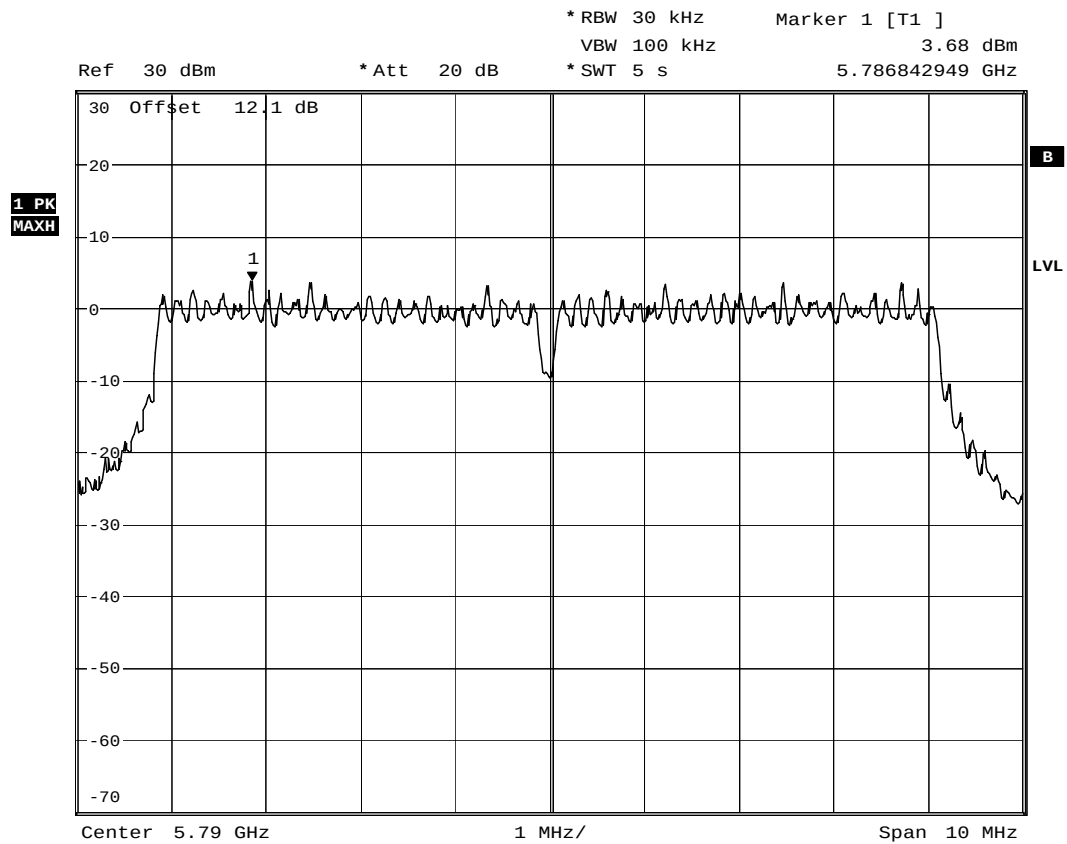
Channel BW: 10 MHz
TX-channel: 5735 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 12:08:06

Power Spectral Density for Digitally Modulated Devices, continued

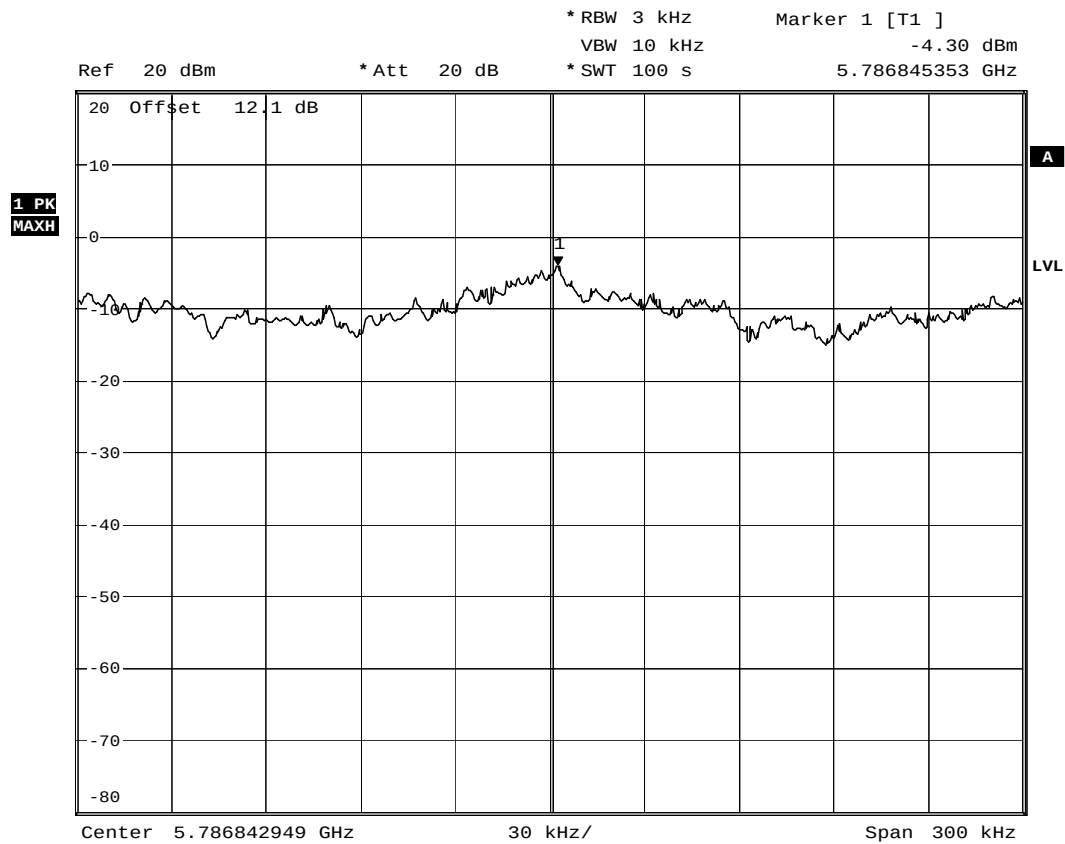
Channel BW: 10 MHz
TX-channel: 5790 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 12:10:27

Power Spectral Density for Digitally Modulated Devices, continued

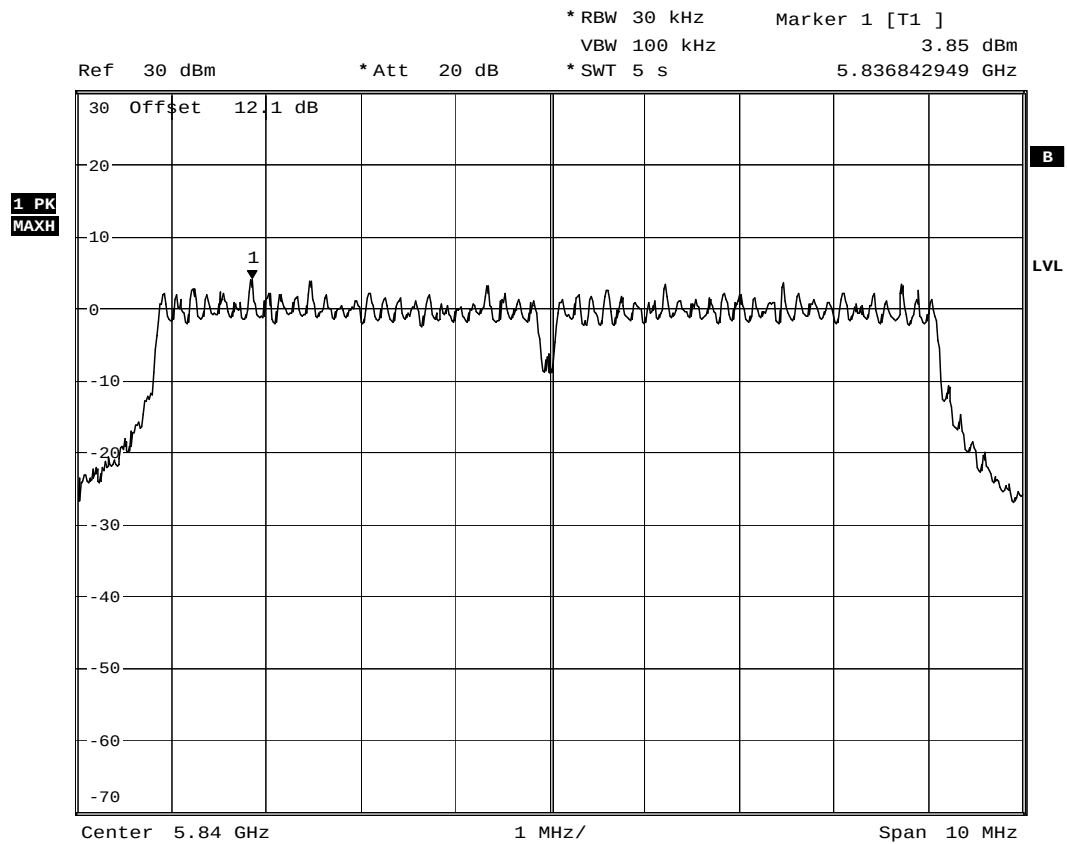
Channel BW: 10 MHz
TX-channel: 5790 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 12:15:42

Power Spectral Density for Digitally Modulated Devices, continued

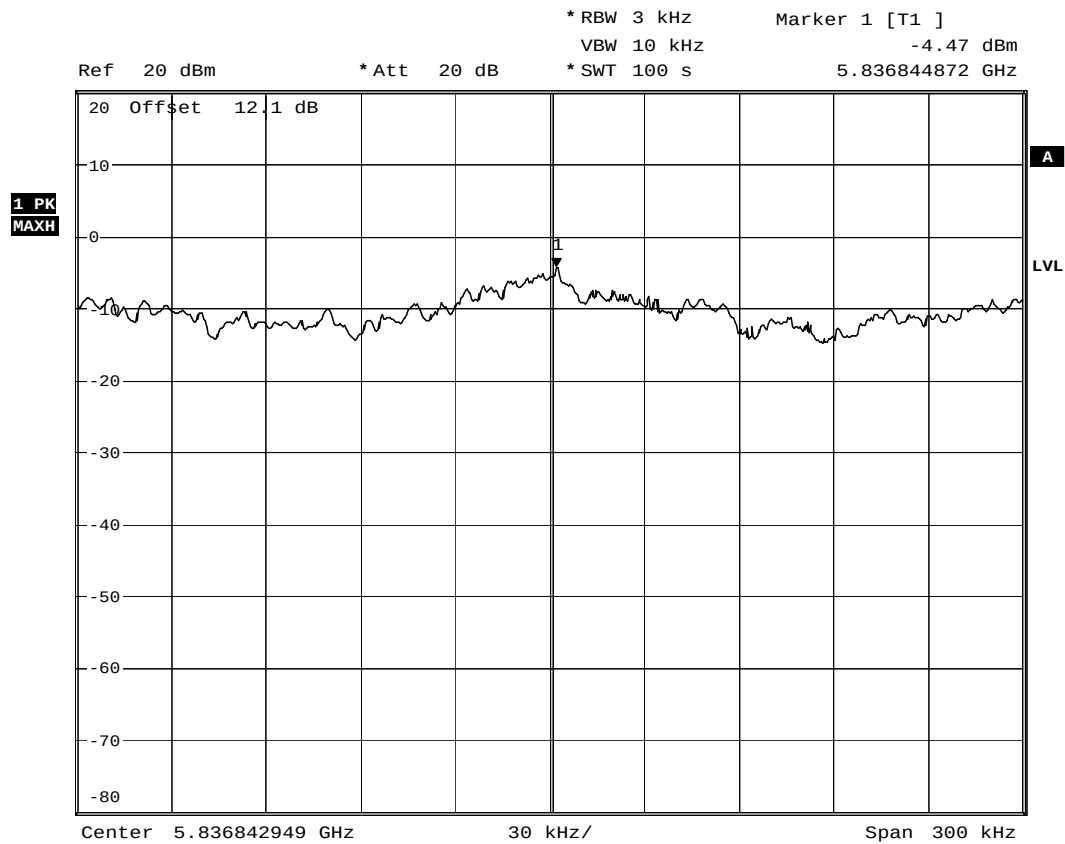
Channel BW: 10 MHz
TX-channel: 5840 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 12:17:58

Power Spectral Density for Digitally Modulated Devices, continued

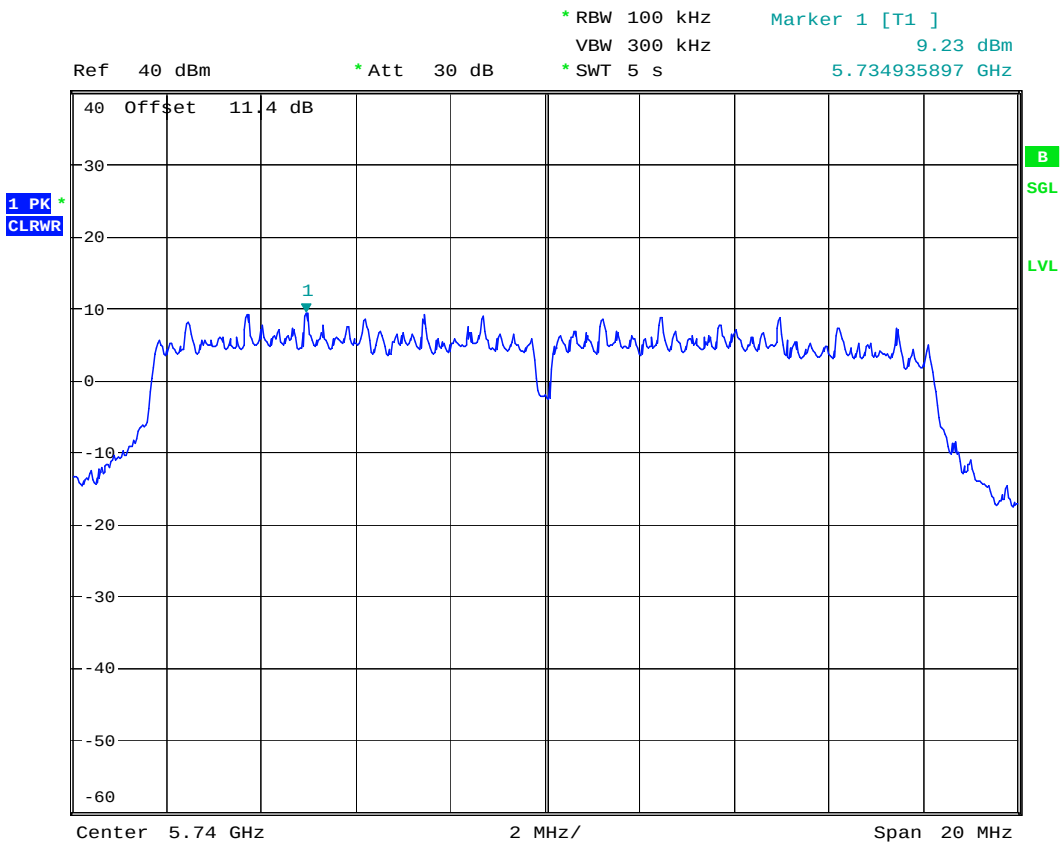
Channel BW: 10 MHz
TX-channel: 5840 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 12:22:56

Power Spectral Density for Digitally Modulated Devices, continued

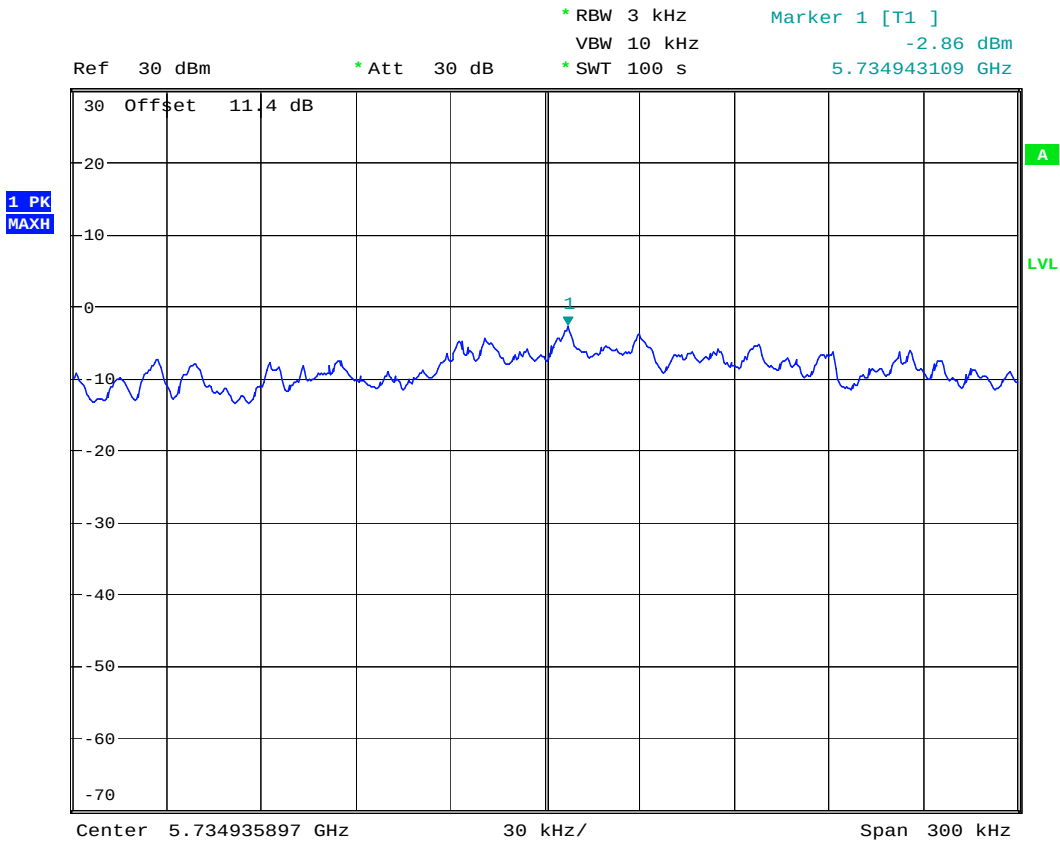
Channel BW: 20 MHz
TX-channel: 5740MHz
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 21.AUG.2007 09:32:09

Power Spectral Density for Digitally Modulated Devices, continued

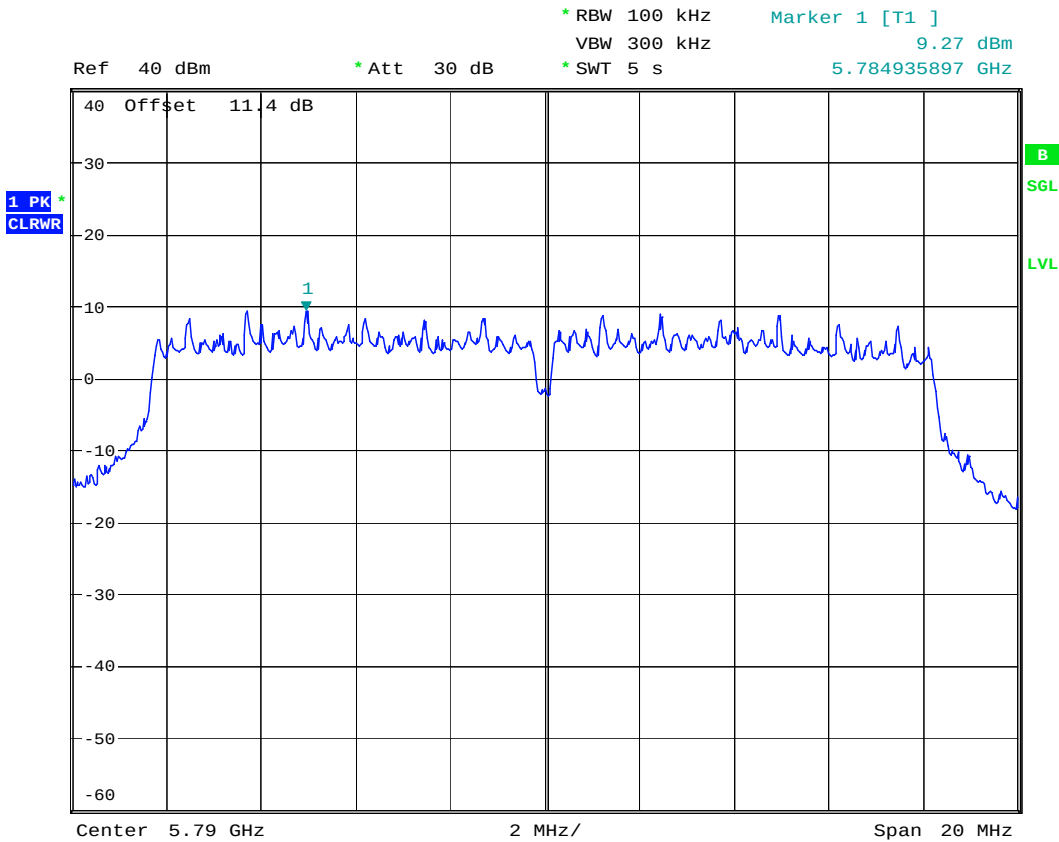
Channel BW: 20 MHz
TX-channel: 5740MHz
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 21.AUG.2007 09:41:11

Power Spectral Density for Digitally Modulated Devices, continued

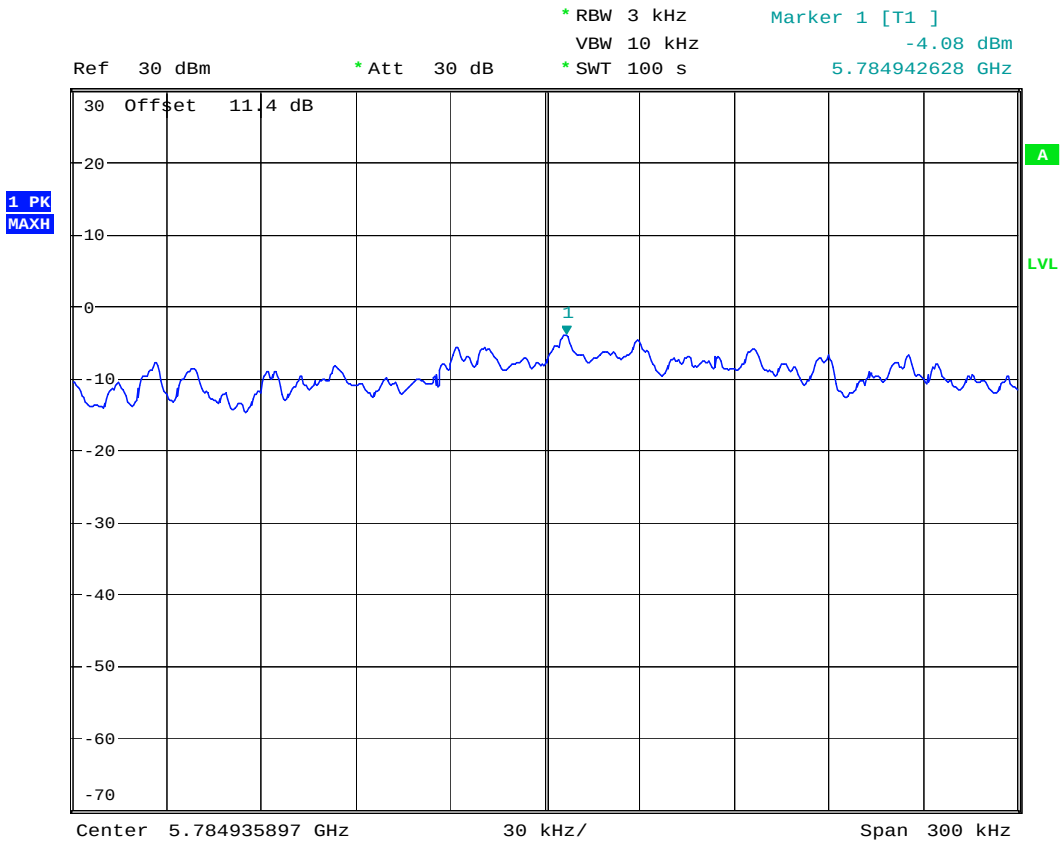
Channel BW: 20 MHz
TX-channel: 5790 MHz
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 21.AUG.2007 10:21:36

Power Spectral Density for Digitally Modulated Devices, continued

Channel BW: 20 MHz
TX-channel: 5790 MHz
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



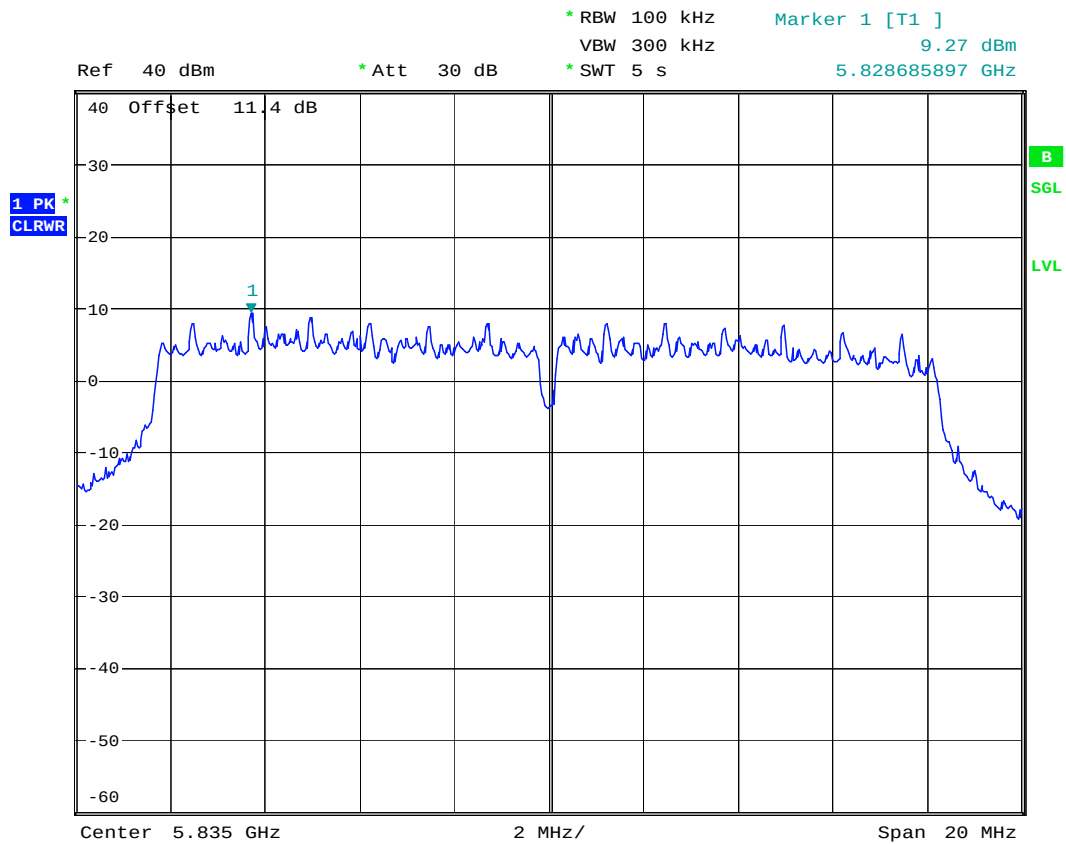
Date: 21.AUG.2007 09:58:06

Power Spectral Density for Digitally Modulated Devices, continued

Channel BW: 20 MHz

TX-channel: 5835 MHz

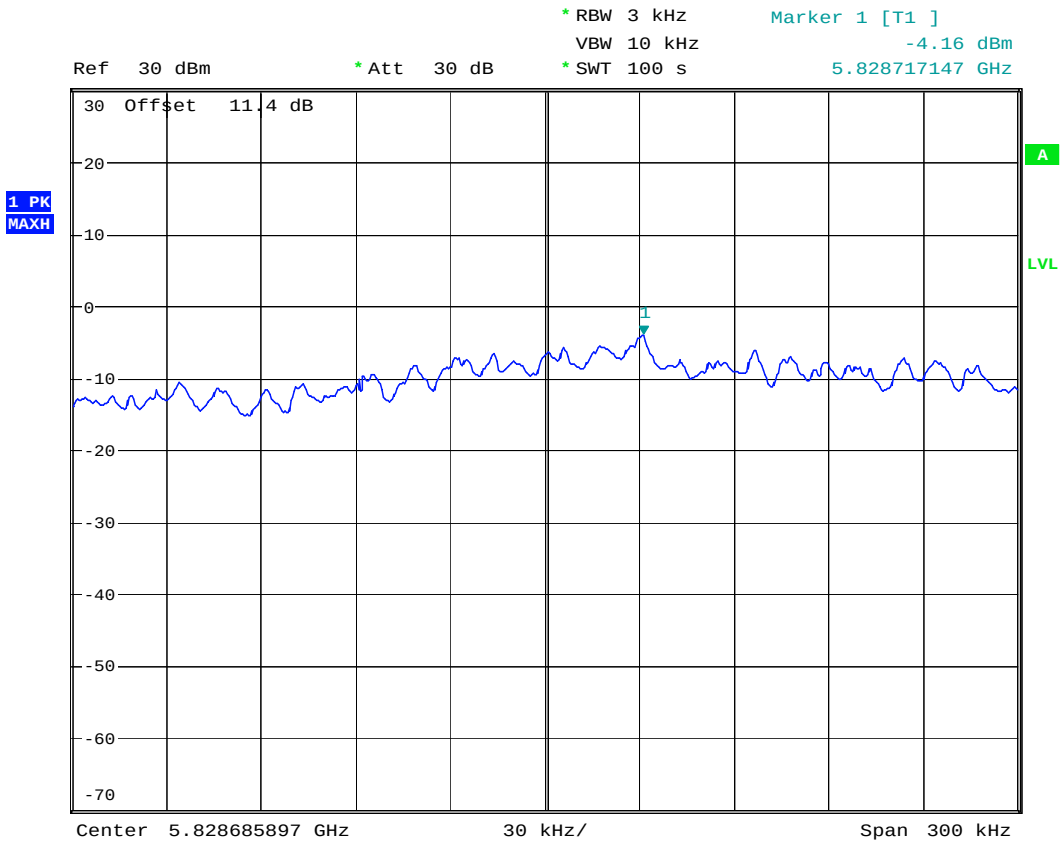
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 21.AUG.2007 10:11:58

Power Spectral Density for Digitally Modulated Devices, continued

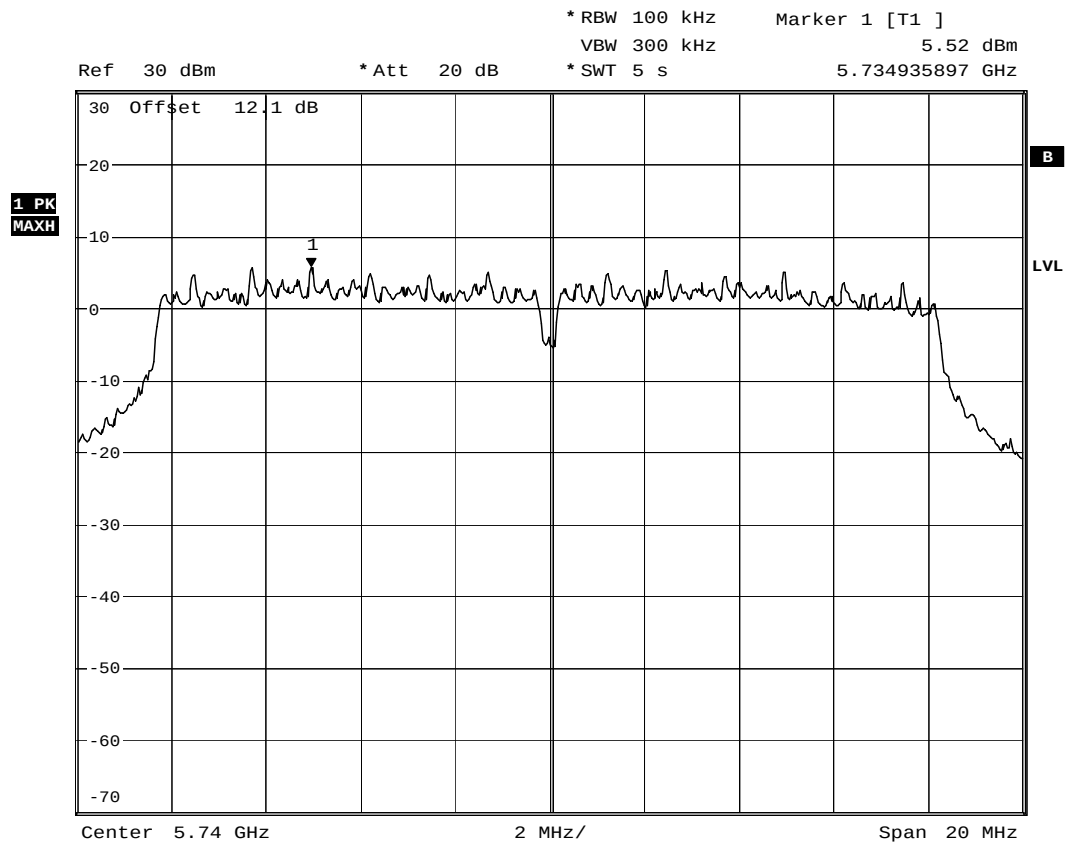
Channel BW: 20 MHz
TX-channel: 5835 MHz
Antenna Gain: 10dBi, 10.5dBi, 15dBi, 19dBi, 23dBi, 28dBi, 30dBi



Date: 21.AUG.2007 10:16:15

Power Spectral Density for Digitally Modulated Devices, continued

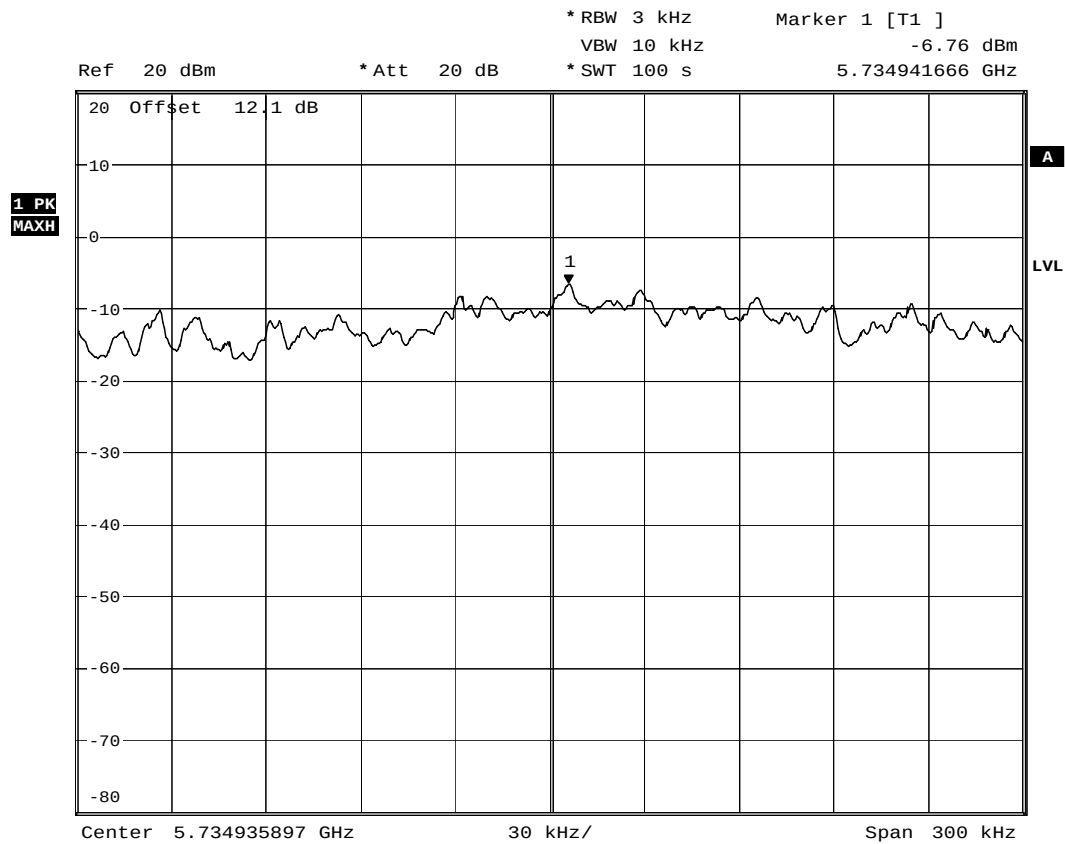
Channel BW: 20 MHz
TX-channel: 5740 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 12:27:10

Power Spectral Density for Digitally Modulated Devices, continued

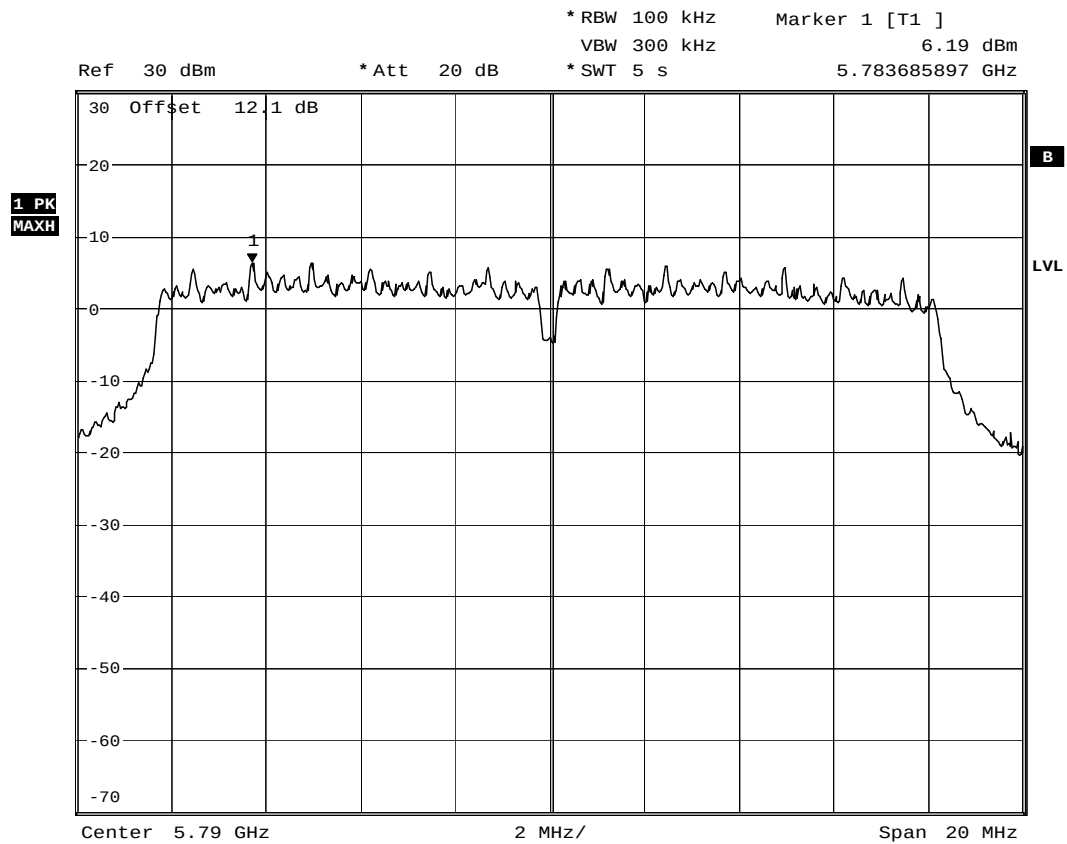
Channel BW: 20 MHz
TX-channel: 5740 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 12:35:47

Power Spectral Density for Digitally Modulated Devices, continued

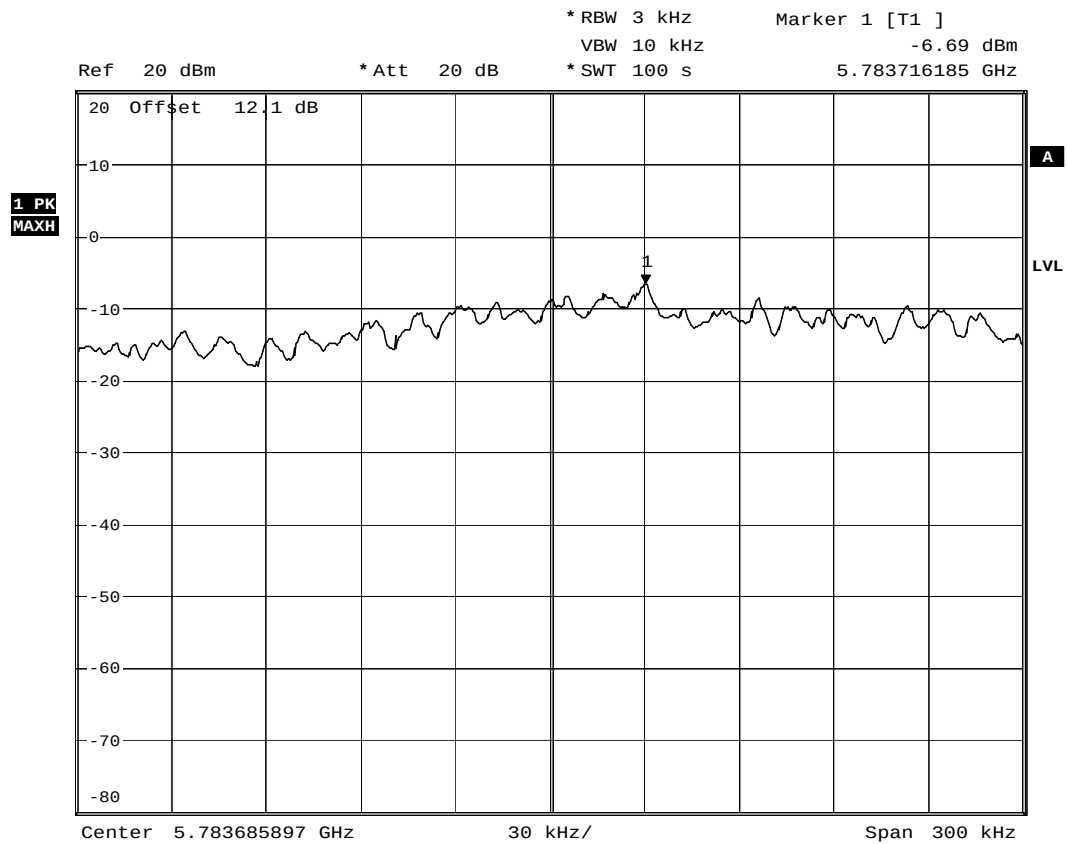
Channel BW: 20 MHz
TX-channel: 5790 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 12:37:15

Power Spectral Density for Digitally Modulated Devices, continued

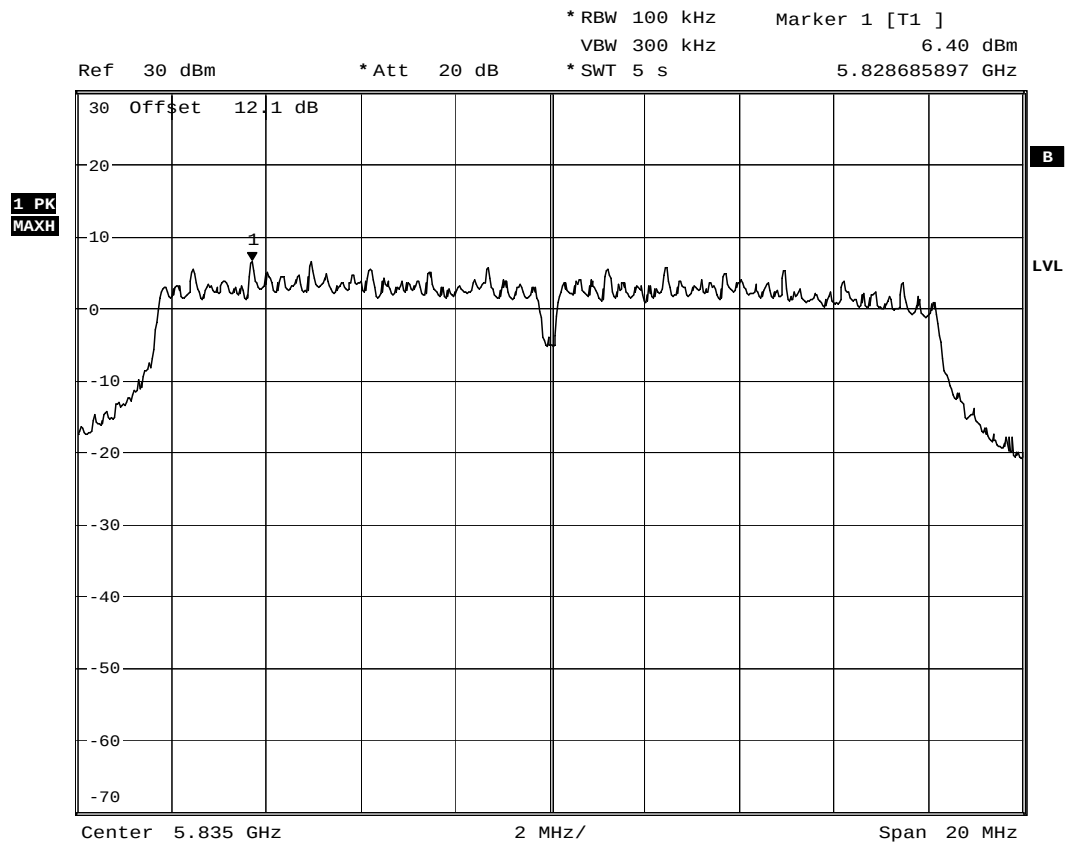
Channel BW: 20 MHz
TX-channel: 5790 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 12:42:08

Power Spectral Density for Digitally Modulated Devices, continued

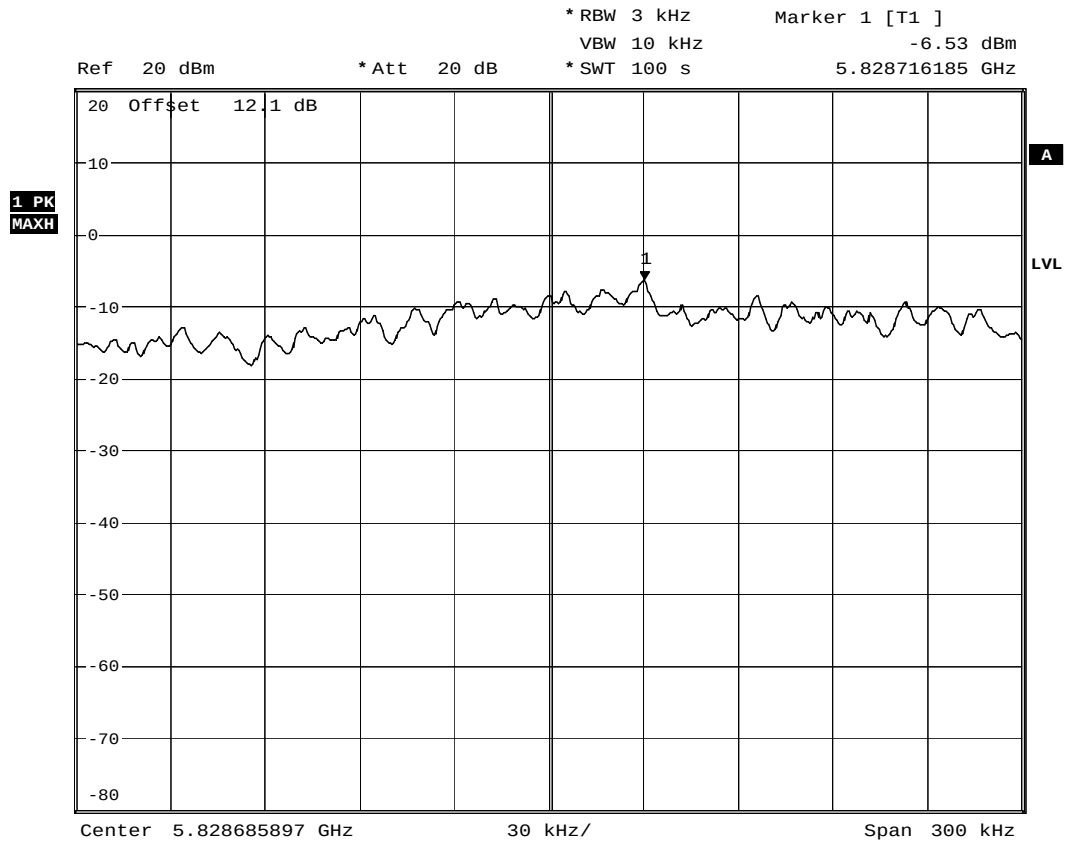
Channel BW: 20 MHz
TX-channel: 5835 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 12:43:23

Power Spectral Density for Digitally Modulated Devices, continued

Channel BW: 20 MHz
TX-channel: 5835 MHz
Antenna Gain: 18dBi



Date: 28.SEP.2007 12:48:57

Power Spectral Density for Digitally Modulated Devices, continued

ChBW: 5MHz

Ch #	Freq. (MHz)	G _{ANT} (dBi)	Power Setting (Target Pwr A)	PSD Cond. (dBm/3kHz)	PSD Limit (dBm/3kHz)	Margin (dB)	PSD EIRP (dBm/3kHz)	PSD Limit (dBm/3kHz)	Margin (dB)
146	5730	10	37	-10.01	8.00	18.01	-0.01	14.00	14.01
158	5790	10	37	-9.71	8.00	17.71	0.29	14.00	13.71
169	5845	10	37	-9.65	8.00	17.65	0.35	14.00	13.65
146	5730	10.5	37	-10.01	8.00	18.01	0.49	14.00	13.51
158	5790	10.5	37	-9.71	8.00	17.71	0.79	14.00	13.21
169	5845	10.5	37	-9.65	8.00	17.65	0.85	14.00	13.15
146	5730	15	37	-10.01	8.00	18.01	4.99	14.00	9.01
158	5790	15	37	-9.71	8.00	17.71	5.29	14.00	8.71
169	5845	15	37	-9.65	8.00	17.65	5.35	14.00	8.65
146	5730	18	32	-11.98	8.00	19.98	6.02	14.00	7.98
158	5790	18	32	-12.07	8.00	20.07	5.93	14.00	8.07
169	5845	18	33	-12.65	8.00	20.65	5.35	14.00	8.65
146	5730	19	37	-10.01	8.00	18.01	8.99	point-to-point	N/A
158	5790	19	37	-9.71	8.00	17.71	9.29	point-to-point	N/A
169	5845	19	37	-9.65	8.00	17.65	9.35	point-to-point	N/A
146	5730	23	37	-10.01	8.00	18.01	12.99	point-to-point	N/A
158	5790	23	37	-9.71	8.00	17.71	13.29	point-to-point	N/A
169	5845	23	37	-9.65	8.00	17.65	13.35	point-to-point	N/A
146	5730	28	37	-10.01	8.00	18.01	17.99	point-to-point	N/A
158	5790	28	37	-9.71	8.00	17.71	18.29	point-to-point	N/A
169	5845	28	37	-9.65	8.00	17.65	18.35	point-to-point	N/A
146	5730	30	37	-10.01	8.00	18.01	19.99	point-to-point	N/A
158	5790	30	37	-9.71	8.00	17.71	20.29	point-to-point	N/A
169	5845	30	37	-9.65	8.00	17.65	20.35	point-to-point	N/A

Power Spectral Density for Digitally Modulated Devices, continued

ChBW: 10MHz

Ch #	Freq. (MHz)	G _{ANT} (dBi)	Power Setting (Target Pwr A)	PSD Cond. (dBm/3kHz)	PSD Limit (dBm/3kHz)	Margin (dB)	PSD EIRP (dBm/3kHz)	PSD Limit (dBm/3kHz)	Margin (dB)
147	5735	10	38	-1.20	8.00	9.20	8.80	14.00	5.20
158	5790	10	37	-1.82	8.00	9.82	8.18	14.00	5.82
168	5840	10	38	-0.29	8.00	8.29	9.71	14.00	4.29
147	5735	10.5	38	-1.20	8.00	9.20	9.30	14.00	4.70
158	5790	10.5	37	-1.82	8.00	9.82	8.68	14.00	5.32
168	5840	10.5	38	-0.29	8.00	8.29	10.21	14.00	3.79
147	5735	15	38	-1.20	8.00	9.20	13.80	14.00	0.20
158	5790	15	37	-1.82	8.00	9.82	13.18	14.00	0.82
168	5840	15	37	-2.08	8.00	10.08	12.92	14.00	1.08
147	5735	18	32	-4.85	8.00	12.85	13.15	14.00	0.85
158	5790	18	32	-4.30	8.00	12.30	13.70	14.00	0.30
168	5840	18	32	-4.47	8.00	12.47	13.53	14.00	0.47
147	5735	19	38	-1.20	8.00	9.20	17.80	point-to-point	N/A
158	5790	19	37	-1.82	8.00	9.82	17.18	point-to-point	N/A
168	5840	19	38	-0.29	8.00	8.29	18.71	point-to-point	N/A
147	5735	23	38	-1.20	8.00	9.20	21.80	point-to-point	N/A
158	5790	23	37	-1.82	8.00	9.82	21.18	point-to-point	N/A
168	5840	23	38	-0.29	8.00	8.29	22.71	point-to-point	N/A
147	5735	28	38	-1.20	8.00	9.20	26.80	point-to-point	N/A
158	5790	28	37	-1.82	8.00	9.82	26.18	point-to-point	N/A
168	5840	28	38	-0.29	8.00	8.29	27.71	point-to-point	N/A
147	5735	30	38	-1.20	8.00	9.20	28.80	point-to-point	N/A
158	5790	30	37	-1.82	8.00	9.82	28.18	point-to-point	N/A
168	5840	30	38	-0.29	8.00	8.29	29.71	point-to-point	N/A

Power Spectral Density for Digitally Modulated Devices, continued

ChBW: 20MHz

Ch #	Freq. (MHz)	G _{ANT} (dBi)	Power Setting (Target Pwr A)	PSD Cond. (dBm/3kHz)	PSD Limit (dBm/3kHz)	Margin (dB)	PSD EIRP (dBm/3kHz)	PSD Limit (dBm/3kHz)	Margin (dB)
148	5740	10	39	-2.86	8.00	10.86	7.14	14.00	6.86
158	5790	10	38	-4.08	8.00	12.08	5.92	14.00	8.08
167	5835	10	38	-4.16	8.00	12.16	5.84	14.00	8.16
148	5740	10.5	39	-2.86	8.00	10.86	7.64	14.00	6.36
158	5790	10.5	38	-4.08	8.00	12.08	6.42	14.00	7.58
167	5835	10.5	38	-4.16	8.00	12.16	6.34	14.00	7.66
148	5740	15	39	-2.86	8.00	10.86	12.14	14.00	1.86
158	5790	15	38	-4.08	8.00	12.08	10.92	14.00	3.08
167	5835	15	38	-4.16	8.00	12.16	10.84	14.00	3.16
147	5735	18	33	-6.76	8.00	14.76	11.24	14.00	2.76
158	5790	18	33	-6.69	8.00	14.69	11.31	14.00	2.69
168	5840	18	33	-6.53	8.00	14.53	11.47	14.00	2.53
148	5740	19	39	-2.86	8.00	10.86	16.14	point-to-point	N/A
158	5790	19	38	-4.08	8.00	12.08	14.92	point-to-point	N/A
167	5835	19	38	-4.16	8.00	12.16	14.84	point-to-point	N/A
148	5740	23	39	-2.86	8.00	10.86	20.14	point-to-point	N/A
158	5790	23	38	-4.08	8.00	12.08	18.92	point-to-point	N/A
167	5835	23	38	-4.16	8.00	12.16	18.84	point-to-point	N/A
148	5740	28	39	-2.86	8.00	10.86	25.14	point-to-point	N/A
158	5790	28	38	-4.08	8.00	12.08	23.92	point-to-point	N/A
167	5835	28	38	-4.16	8.00	12.16	23.84	point-to-point	N/A
148	5740	30	39	-2.86	8.00	10.86	27.14	point-to-point	N/A
158	5790	30	38	-4.08	8.00	12.08	25.92	point-to-point	N/A
167	5835	30	38	-4.16	8.00	12.16	25.84	point-to-point	N/A

§2.1055 Measurements required: Frequency stability

- (a) The frequency stability shall be measured with variation of ambient temperature as follows:
 (1) From -30° to $+50^{\circ}$ centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.

Test Conditions:

Sample Number:	1	Temperature (°C):	-30°C to +50°C
Date:	September 28, 2007	Humidity (%):	0 %
Modification State:	0	Tester:	Roman Kuleba
		Laboratory:	Ottawa

Test Results: Pass (see attached tables).

T (°C)	Nominal Freq. (GHz)	Measured Freq. (GHz)	Deviation (ppm)
-30	5.790	5.790016917	6.109
-20	5.790	5.790003527	3.796
-10	5.790	5.789994618	2.257
0	5.790	5.789987636	1.051
+10	5.790	5.789983109	0.270
+20	5.790	5.789981548	0.000
+30	5.790	5.789981304	-0.042
+40	5.790	5.789981061	-0.084
+50	5.790	5.789980816	-0.126

Additional Observations:

Frequency stability was measured while supply voltage was varied from 102 VAC to 138 VAC (85% to 115% of the nominal rated supply voltage).
 No change in transmit frequency was observed.

Appendix B: Setup Photographs

Conducted Emissions Setup:

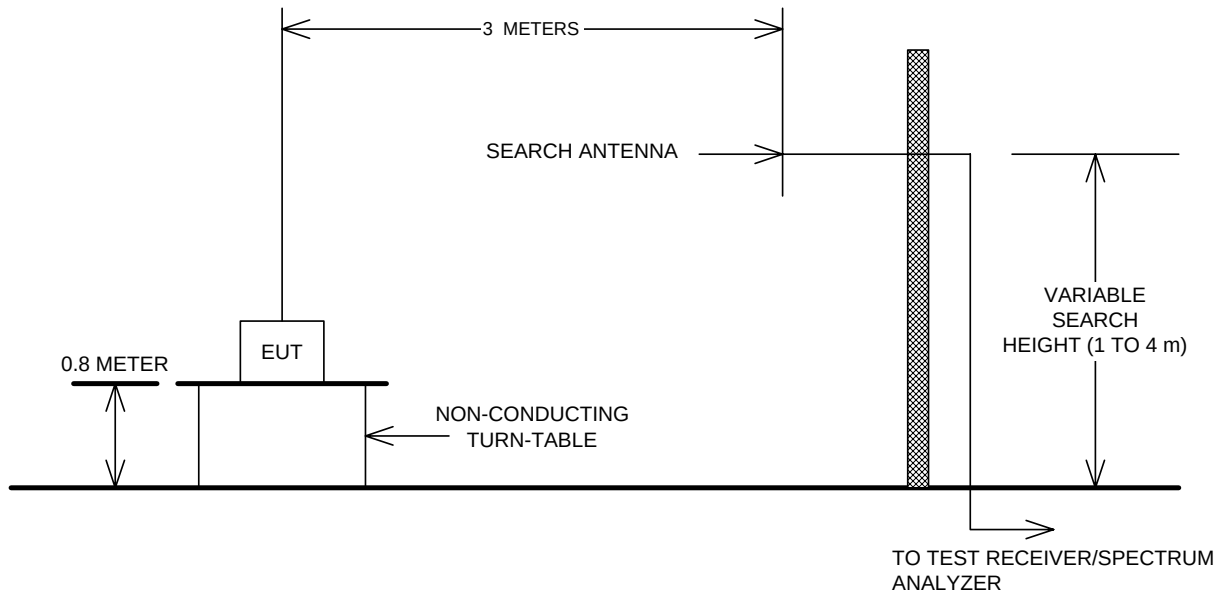


Radiated Spurious Emissions Setup:



Appendix C: Block Diagram of Test Setups

Test Site For Radiated Emissions



Conducted Emissions

