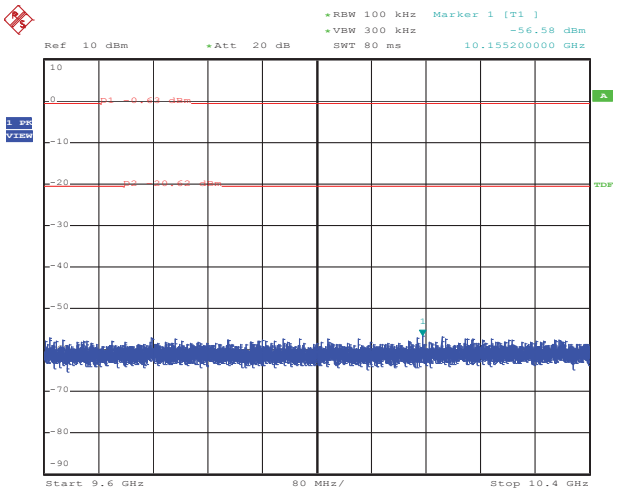
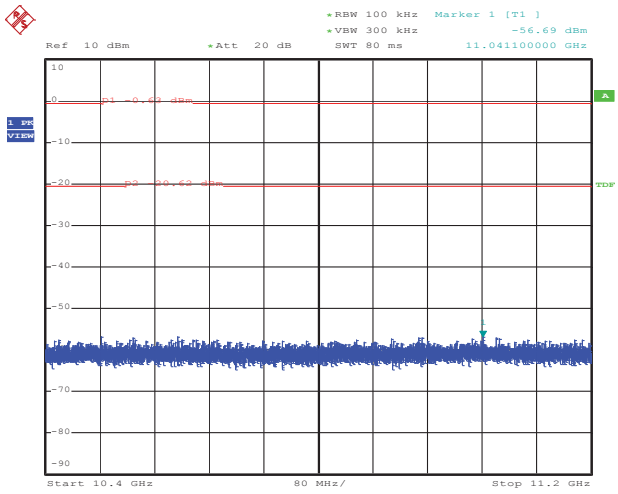
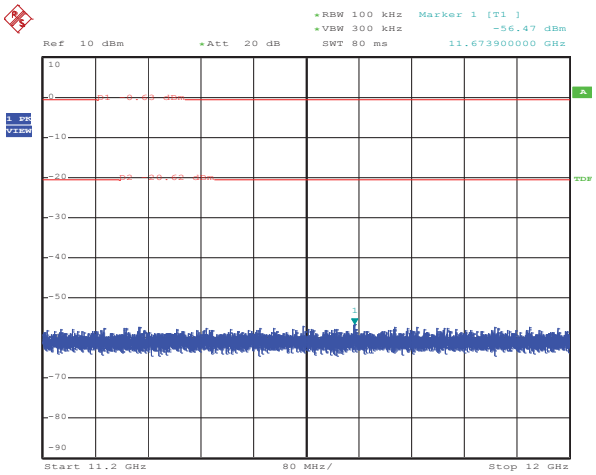
Figure 28: Conducted Spurious Emissions, 9.6 – 14.4GHz, Mode B (2441MHz)

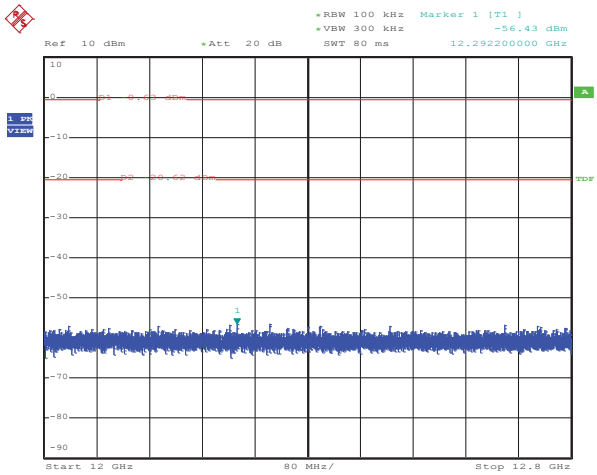




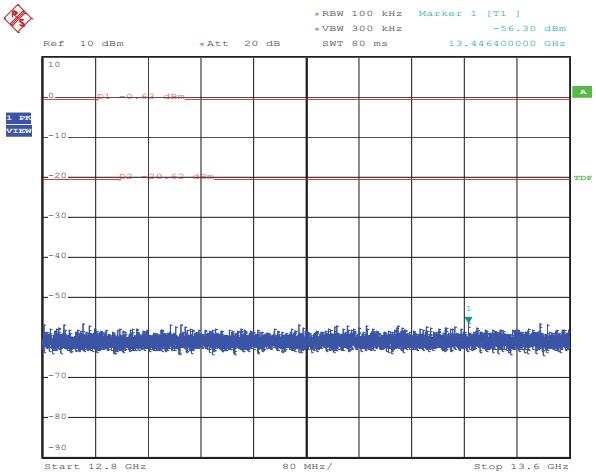
Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:20:45



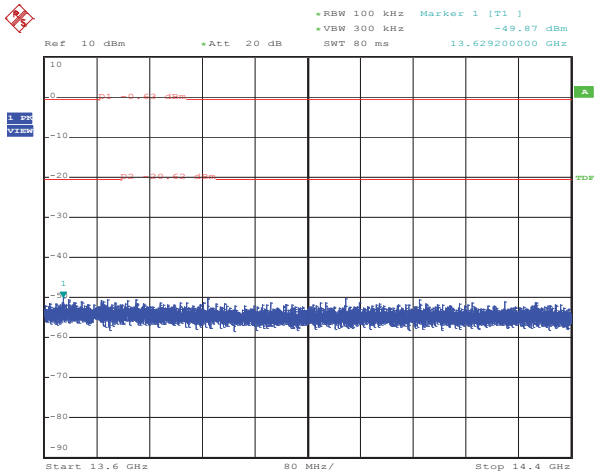
Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:21:08



Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:21:30



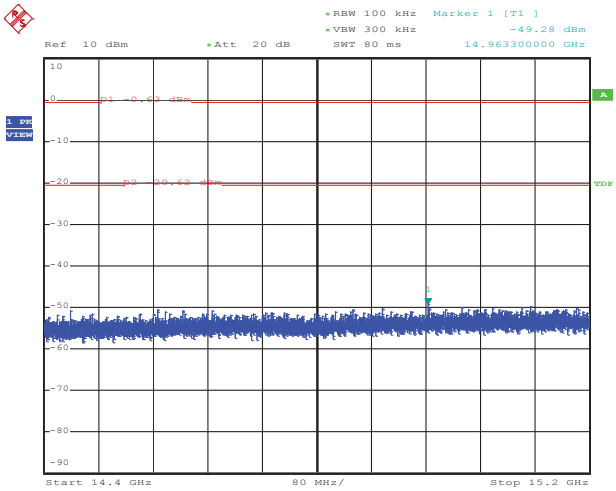
Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:21:53

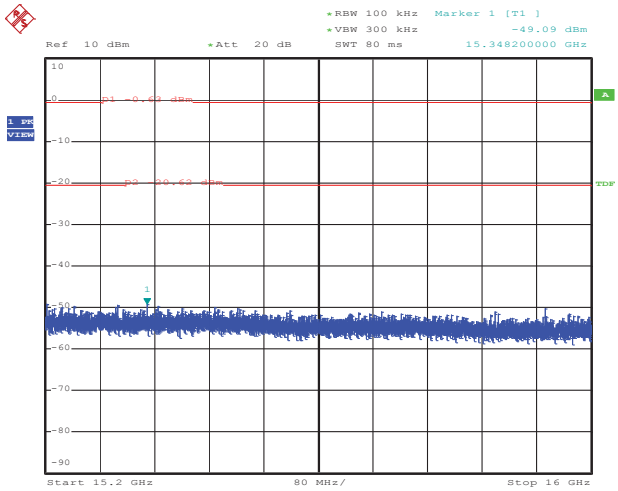


Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:22:15

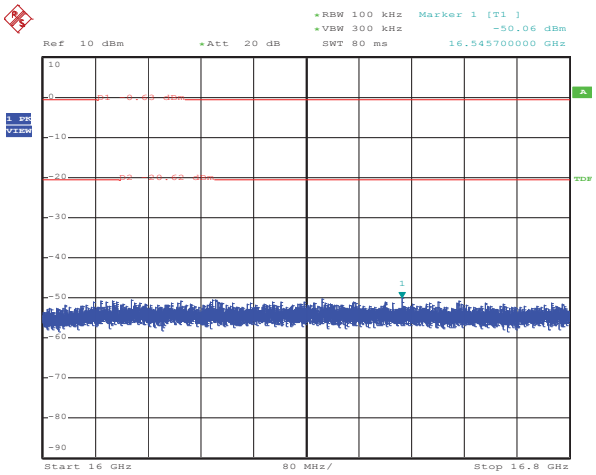
Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:22:37

Figure 29: Conducted Spurious Emissions, 14.4 – 19.2GHz, Mode B (2441MHz)

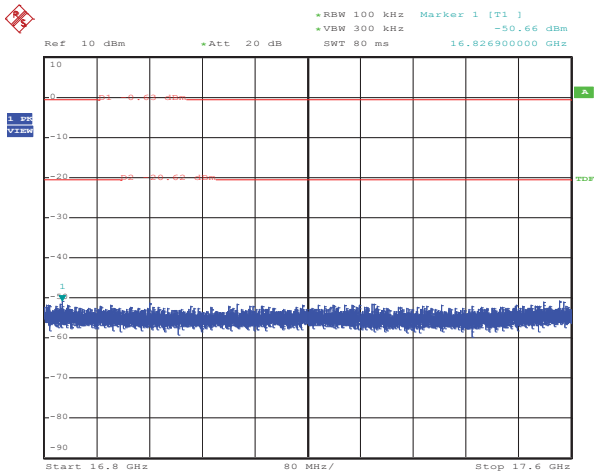




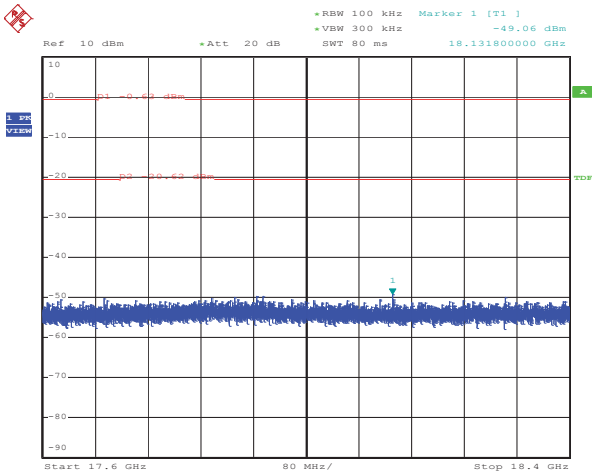
Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:23:13



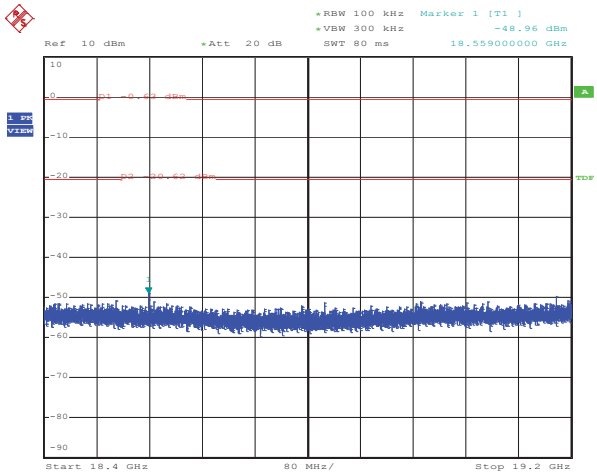
Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:23:35



Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:23:58



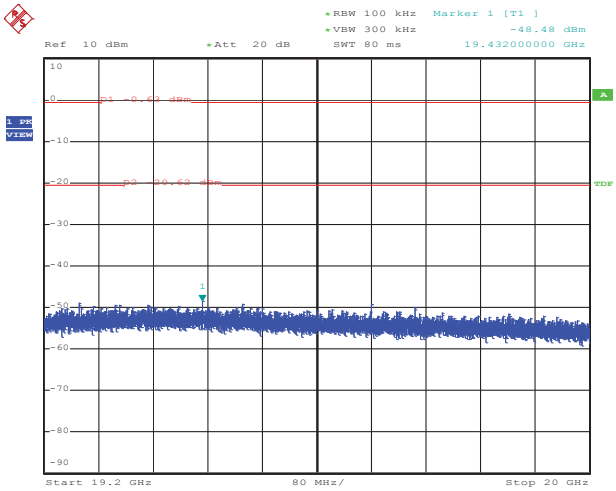
Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:24:31

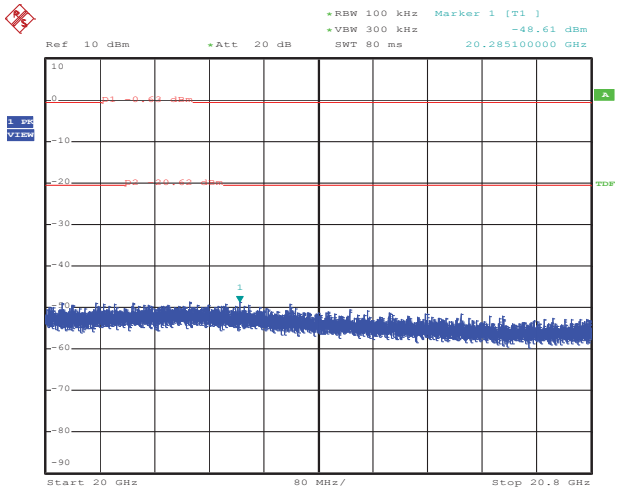


Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:24:53

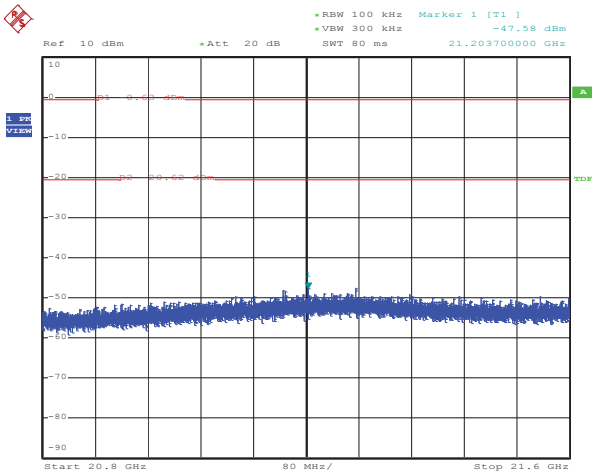
Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:25:16

Figure 30: Conducted Spurious Emissions, 19.2 – 24.0GHz, Mode B (2441MHz)

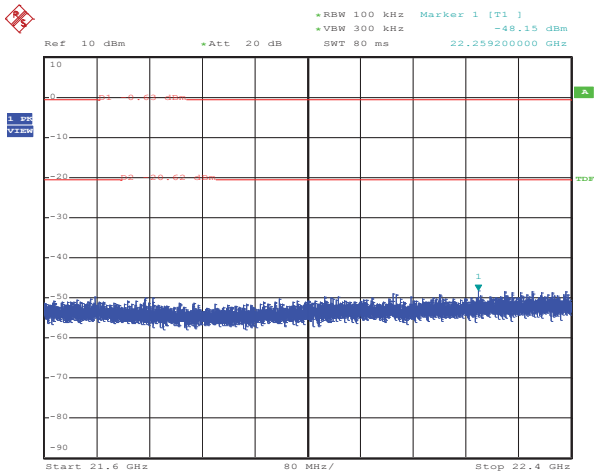




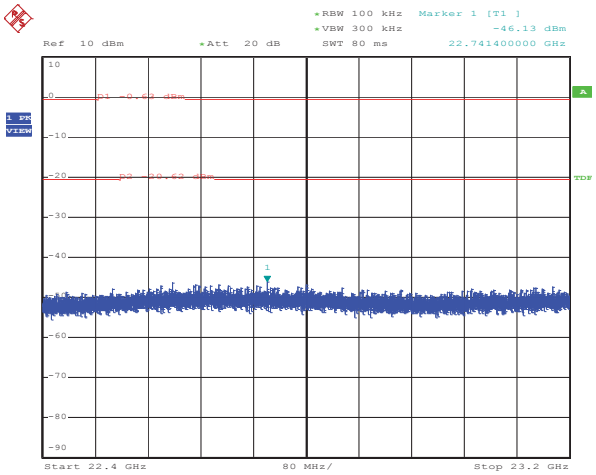
Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:25:38



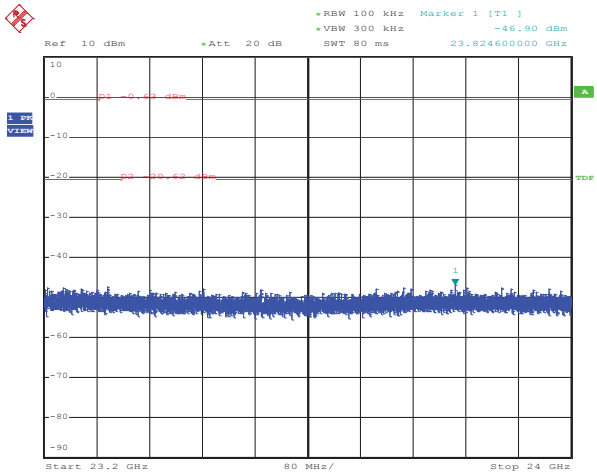
Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:25:59



Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:26:27



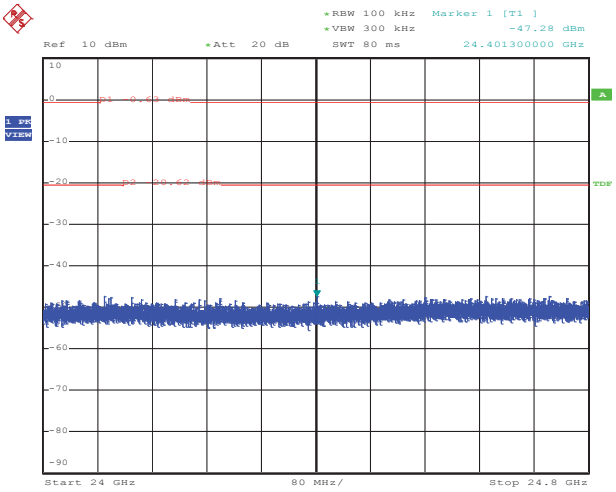
Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:26:49



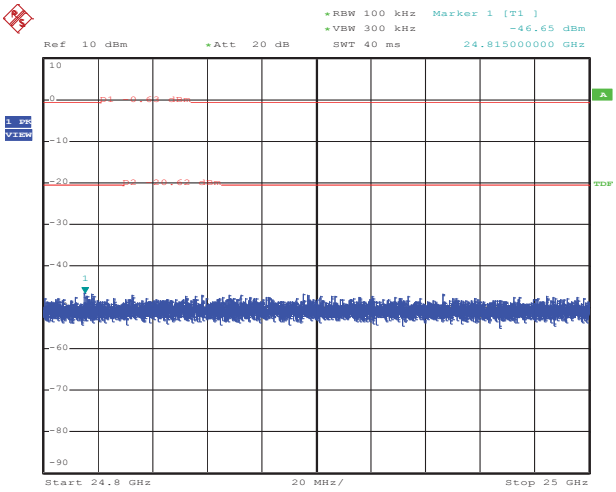
Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:27:11

Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:27:33

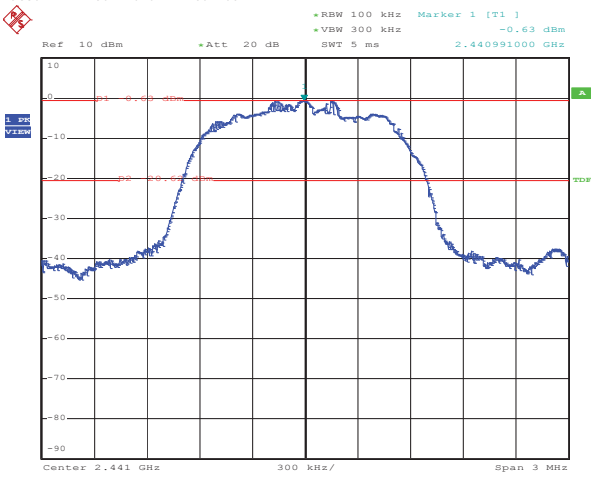
Figure 31: Conducted Spurious Emissions, 24.0– 25.0GHz and carrier, Mode B (2441MHz)



Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:27:54

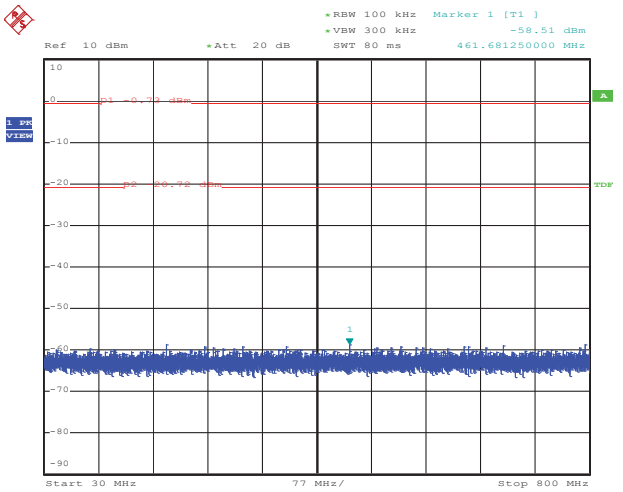


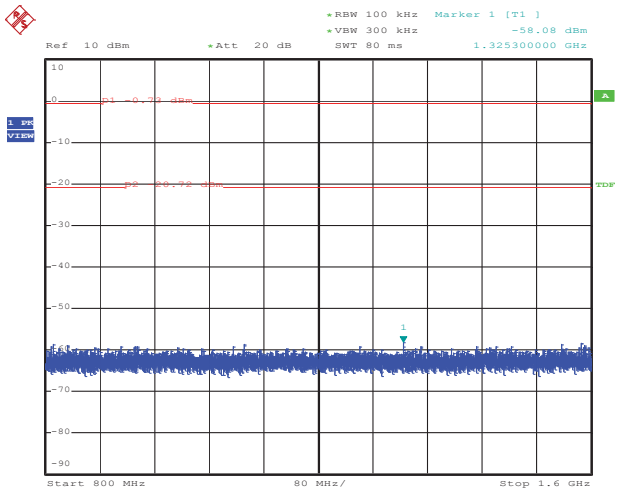
Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:28:17



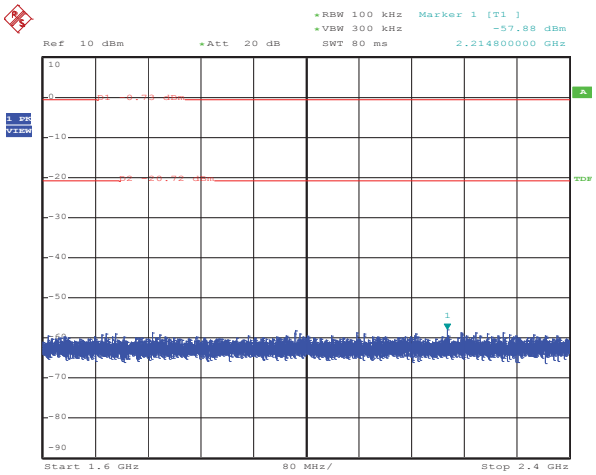
Comment: Conducted spurious emissions, mode B, 3-DH5
Date: 13.MAR.2014 16:14:13

Figure 32: Conducted Spurious Emissions, 30MHz – 4.8GHz, Mode C (2480MHz)

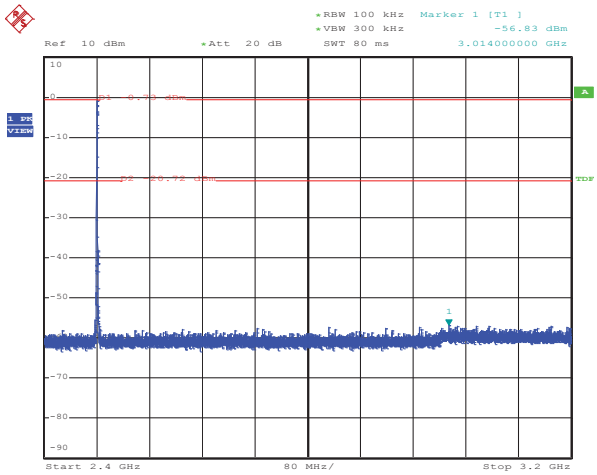




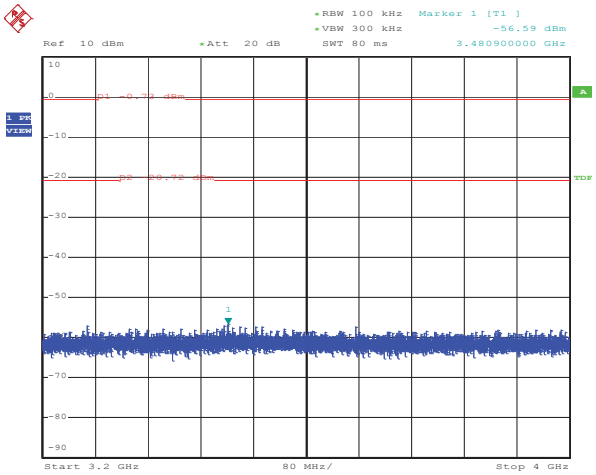
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:31:00



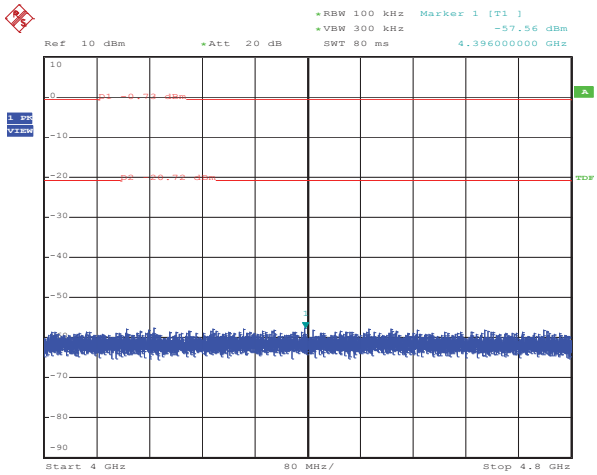
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:31:22



Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:31:47



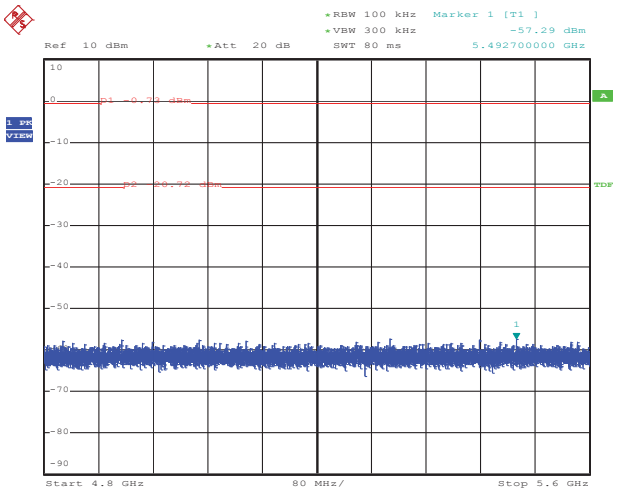
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:33:58

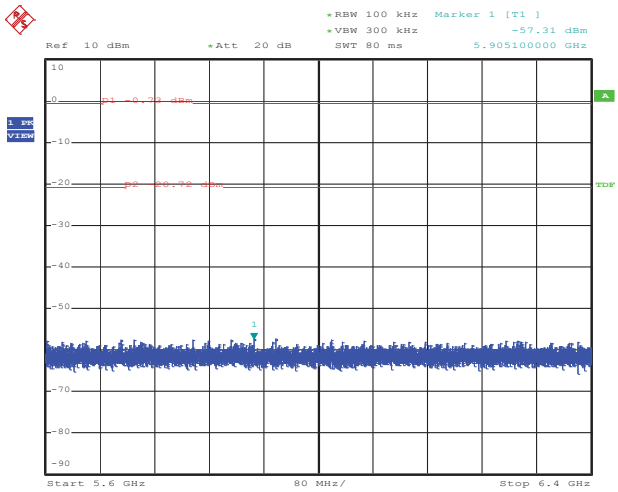


Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:34:28

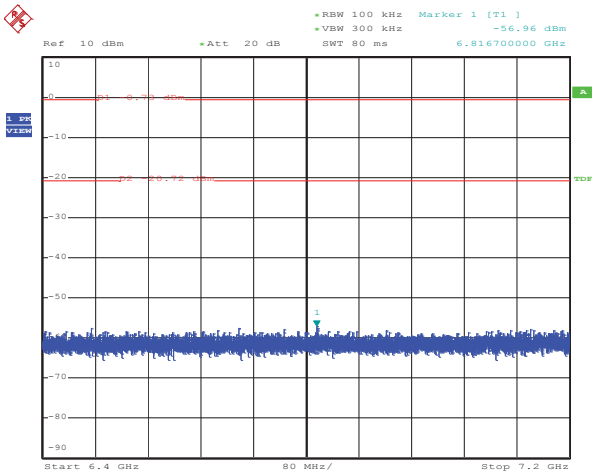
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:34:49

Figure 33: Conducted Spurious Emissions, 4.8 – 9.6GHz, Mode C (2480MHz)

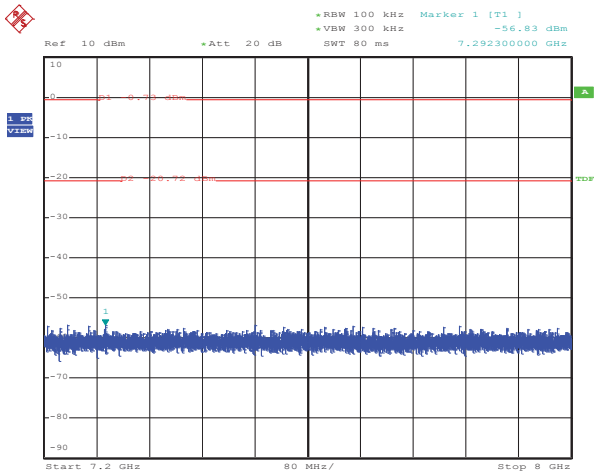




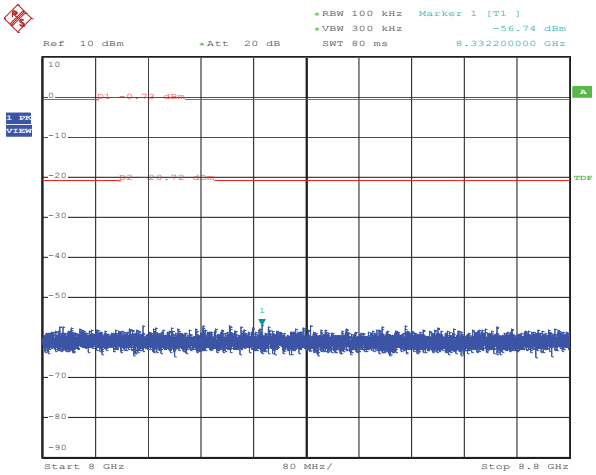
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:35:12



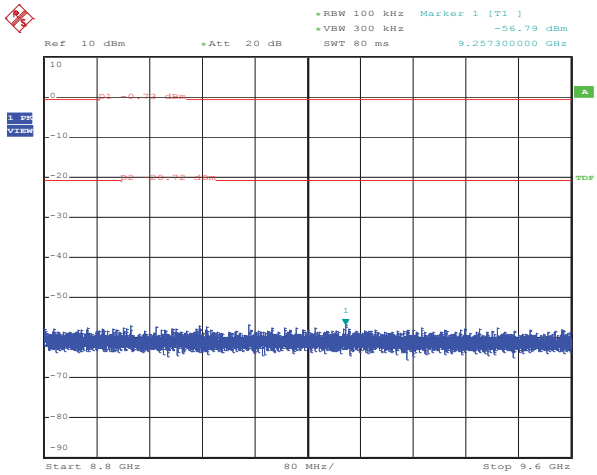
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:35:33



Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:35:56



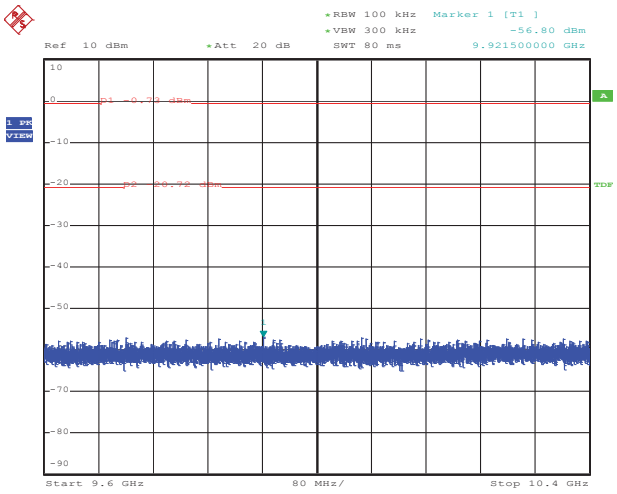
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:36:18

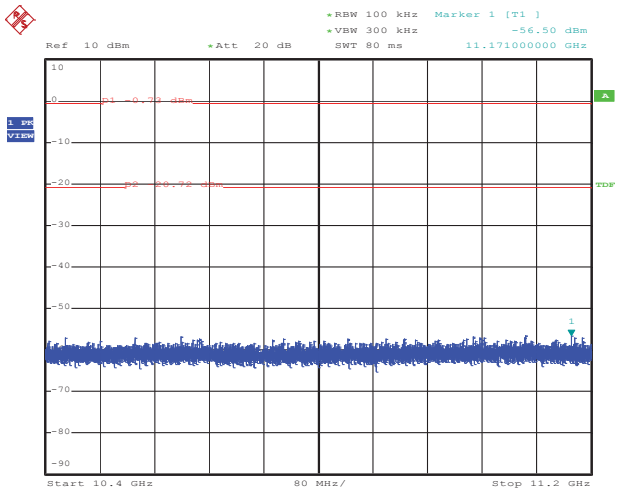


Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:36:45

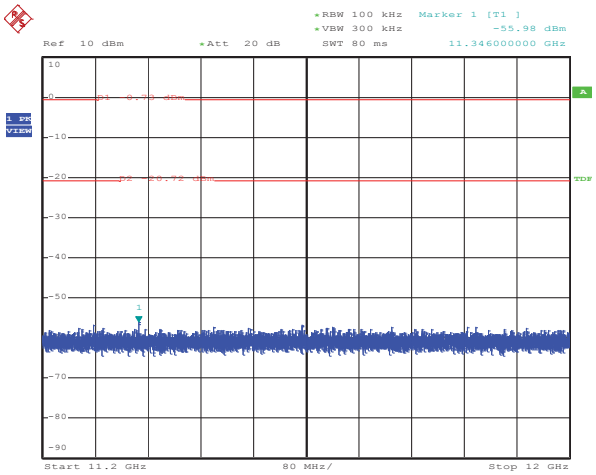
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:37:07

Figure 34: Conducted Spurious Emissions, 9.6 – 14.4GHz, Mode C (2480MHz)

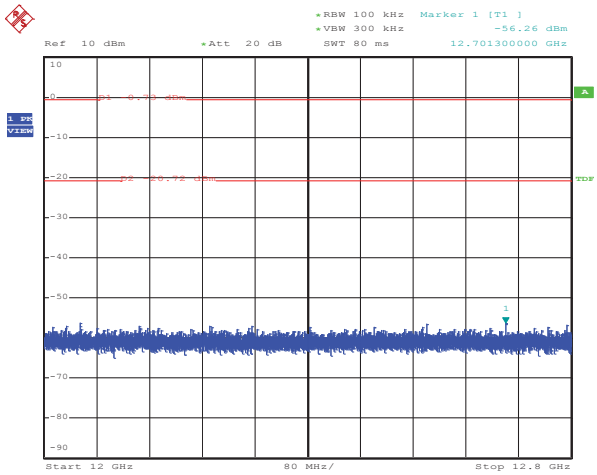




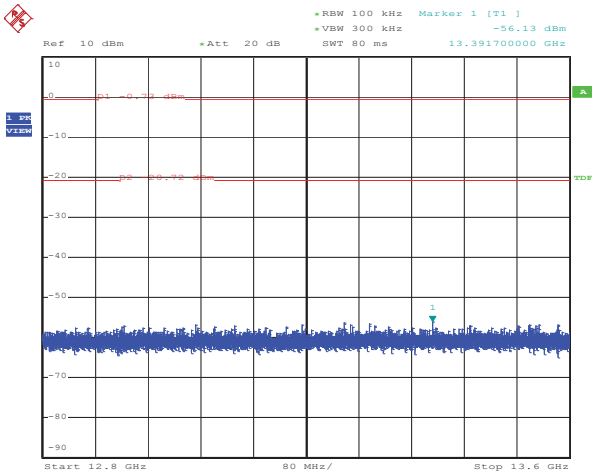
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:37:29



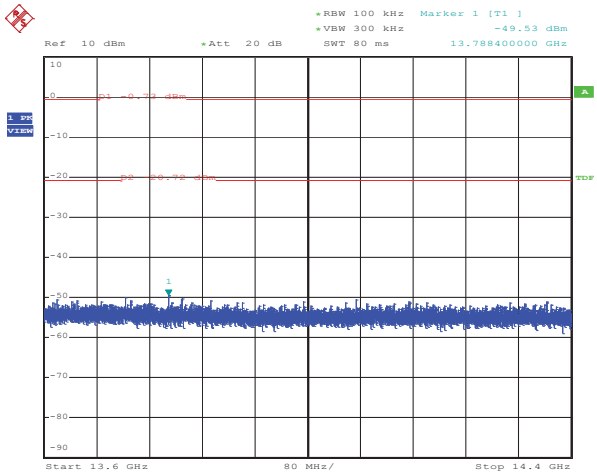
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:37:52



Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:38:14



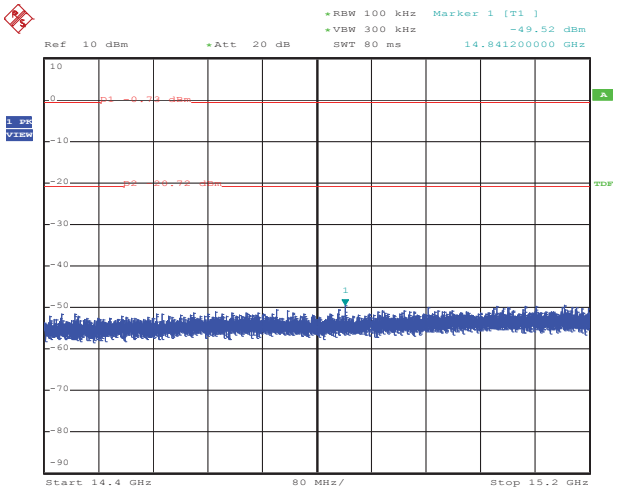
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:38:37

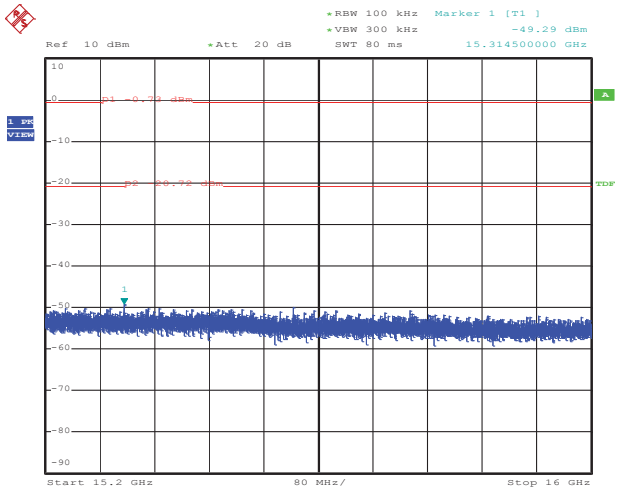


Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:39:00

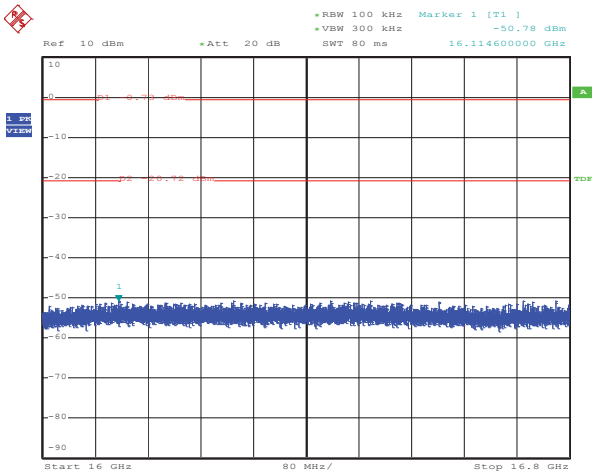
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:39:22

Figure 35: Conducted Spurious Emissions, 14.4 – 19.2GHz, Mode C (2480MHz)

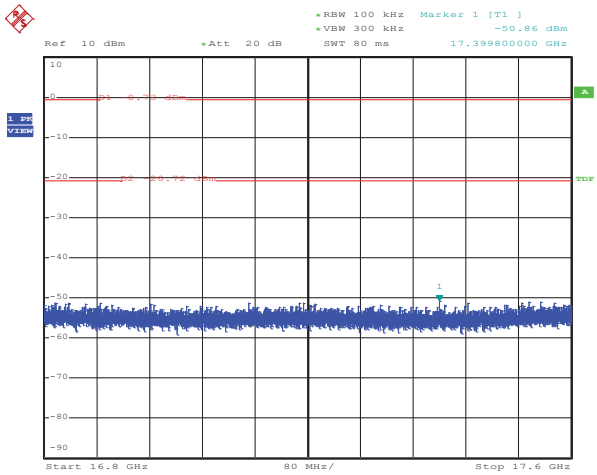




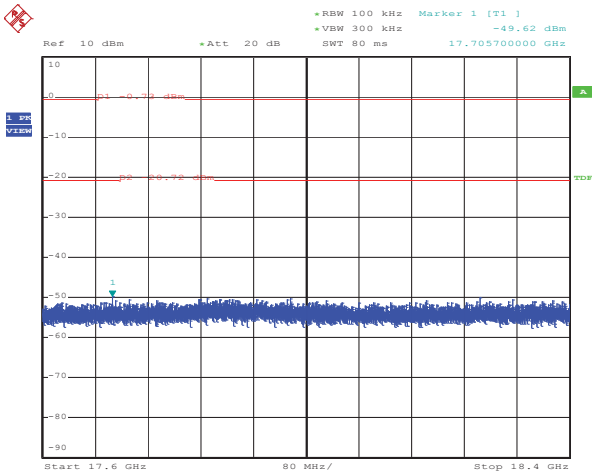
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:40:14



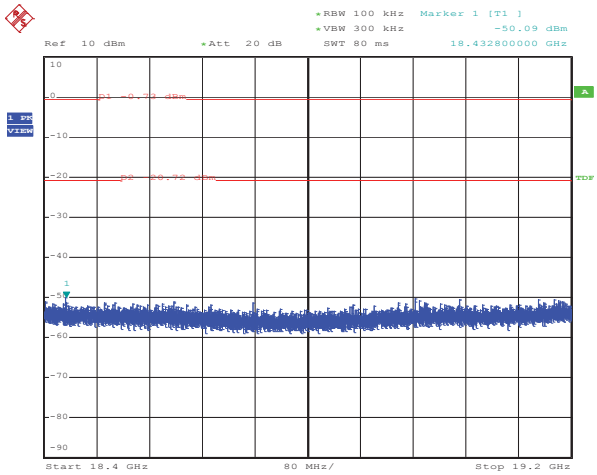
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:40:36



Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:41:10



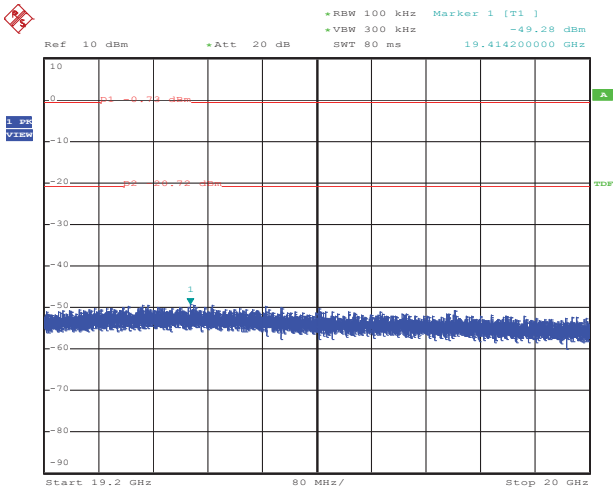
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:41:32

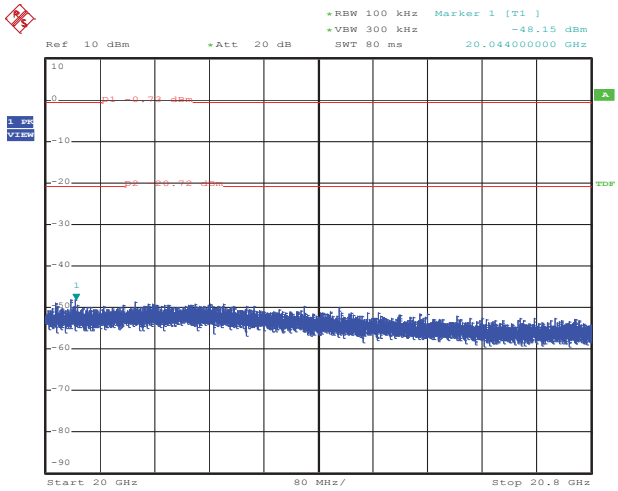


Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:41:59

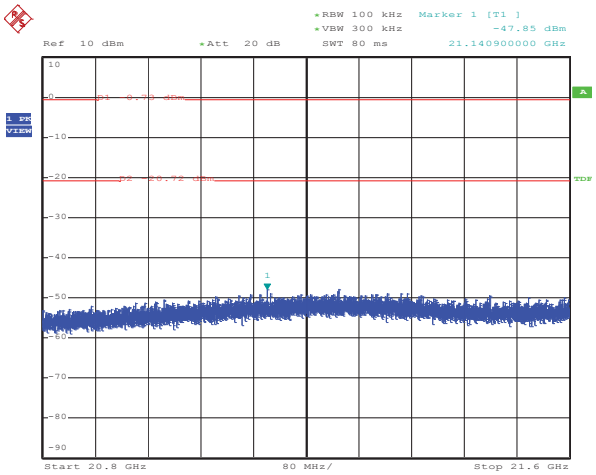
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:42:25

Figure 36: Conducted Spurious Emissions, 19.2 – 24.0GHz, Mode C (2480MHz)

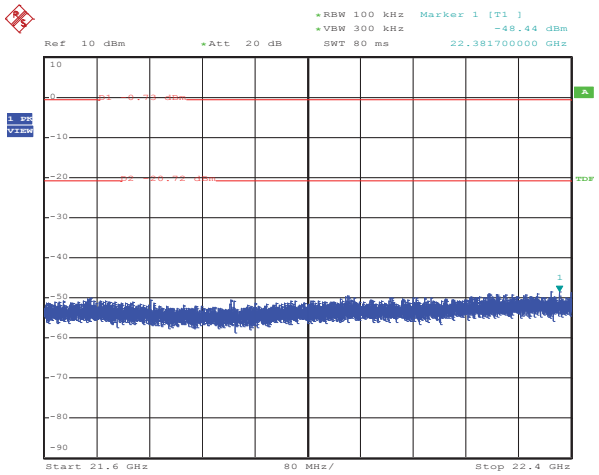




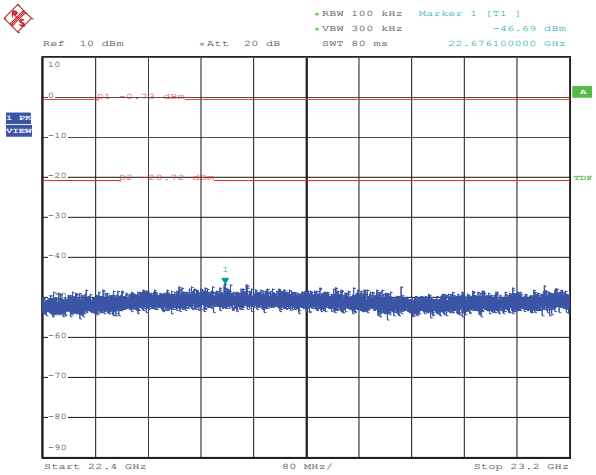
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:42:48



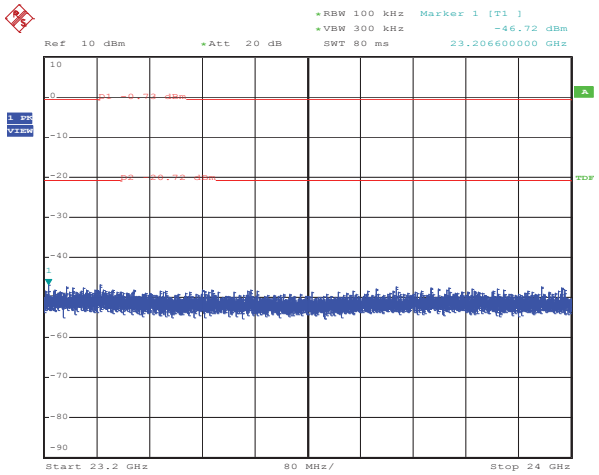
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:43:11



Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:43:36



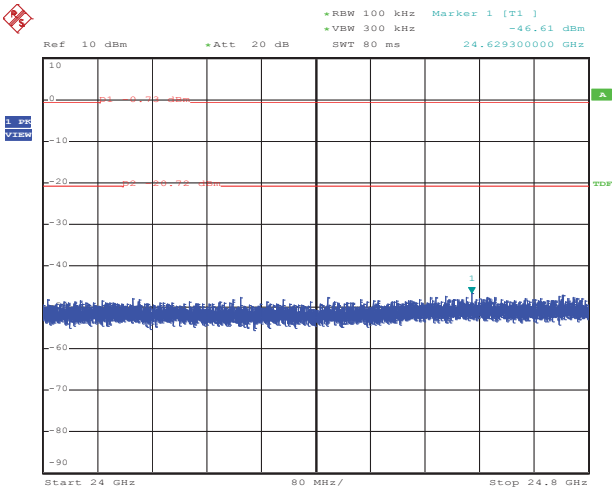
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:43:57



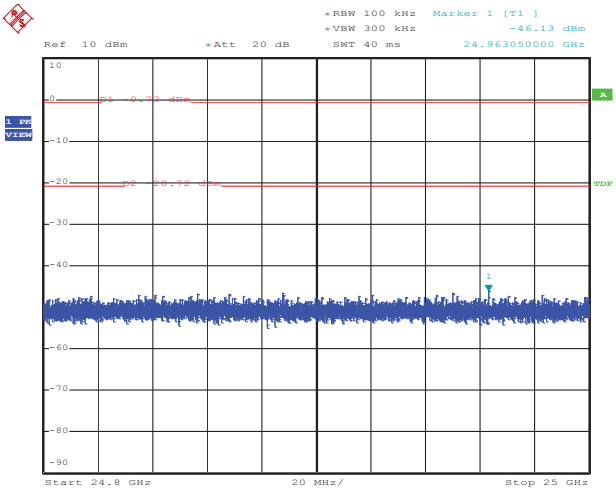
Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:44:21

Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:44:43

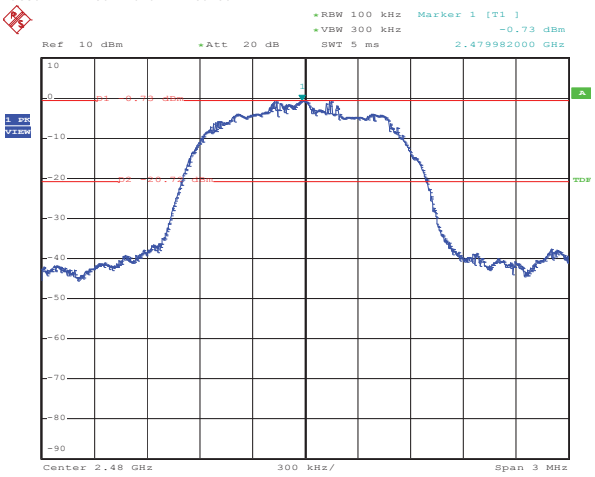
Figure 37: Conducted Spurious Emissions, 24.0– 25.0GHz and carrier, Mode C (2480MHz)



Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:45:22



Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:45:50



Comment: Conducted spurious emissions, mode C, 3-DH5
Date: 13.MAR.2014 16:30:39

5.3 Radiated Measurements

5.3.1 Radiated Spurious Emissions of Transmitter

RESULT: **PASS**

Date of testing:	2014-03-17, 2014-03-18, 2014-03-19 2014-03-24
Ambient temperature:	22, 23, 24, 24°C
Relative humidity:	42, 43, 42, 40%
Atmospheric pressure:	1021, 1010, 1014, 1019hPa
Frequency range:	9kHz - 25GHz
Measurement distance:	3m
Kind of test site:	Semi Anechoic Chamber

Requirements:

FCC 15.205, FCC 15.209, FCC 15.247(d), RSS-Gen 7.2.2 and 7.2.5 and RSS-210 2.1, 2.2, 2.5 and A8.5

Radiated emissions which fall in the restricted bands, as defined in FCC 15.205(a) and RSS-Gen 7.2.2 (table 3), must comply with the radiated emission limits specified in FCC 15.209(a) and RSS-Gen 7.2.5 (tables 5 and 6).

Radiated emissions which fall outside the operation frequency band and outside restricted bands shall either meet the limit specified in FCC 15.209(a) and RSS-Gen 7.2.5 or be attenuated at least 20dB below the power level in the 100kHz bandwidth within the band that contains the highest level of the desired power (the less severe limit applies).

Test procedure:

ANSI C63.10-2009, RSS-Gen 4.9 and 7.2 and Public Notice DA 00-705.

The EUT was placed on a nonconductive turntable 0.8m above the ground plane. Before final measurements of radiated emissions were performed, the EUT was scanned to determine its emission spectrum profile. The physical arrangement of the test system, the associated cabling and the EUT orientation (X, Y, Z) were varied in order to ensure that maximum emission amplitudes were attained.

The spectrum was examined from 9kHz to the 10th harmonic of the highest fundamental transmitter frequency (25GHz). Final radiated emission measurements were made at 3m distance.

At each frequency where a spurious emission was found, the EUT was rotated 360° and the antenna was raised and lowered from 1 to 4m in order to determine the emission’s maximum level. Measurements were taken using both horizontal and vertical antenna polarizations.

For emissions between 30MHz and 1GHz, measurements were performed with a test receiver operating in the CISPR quasi-peak detection mode. The receiver's 6dB bandwidth was set to 120kHz. For emissions above 1GHz, measurements were performed with a spectrum analyzer using the following settings: for peak field strength: RBW = 1MHz & VBW ≥ 1MHz; for average field strength: RBW = 1MHz & VBW = 10Hz.

Absorbers have been placed on the floor between the EUT and the measuring antenna for testing above 1GHz.

The highest emission amplitudes relative to the appropriate limit were recorded in this report. Emissions other than those mentioned are small or not detectable.

The worst case was found at the data rate of DH5 in 8DPSK (3-DH5) Therefore, the final measurement was reported accordingly.

No spurious emission was found in the range from 9kHz to 30MHz.

Table 12: Radiated Emissions, Quasi Peak Data, 30MHz - 1GHz, Horizontal and Vertical Antenna Orientations, Mode A (2402MHz)

Freq. [MHz]	EUT / Antenna Orientation	Reading QP [dBµV]	Factor [dB(1/m)]	Level QP [dBµV/m]	Limit [dBµV/m]	Margin QP [dB]	Height [cm]	Angle [°]
31.843	Z / V	40.9	-17.3	23.6	40.0	16.4	105	53
54.510	Z / V	47.2	-16.2	31.0	40.0	9.0	106	85
126.684	Z / H	32.3	-16.7	15.6	43.5	27.9	262	257
294.232	Z / H	54.8	-13.6	41.2	46.0	4.8	116	131
535.542	Z / H	39.9	-7.2	32.7	46.0	13.3	120	44
901.884	Z / H	30.8	-2.2	28.6	46.0	17.4	163	57

Note: Level QP = Reading QP + Factor

Table 13: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, Mode A (2402MHz)

Freq. [MHz]	EUT / Antenna Orientation	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1920.219	X / H	49.4	-16.4	33.0	54.0	21.0	100	149
7994.967	X / V	37.1	1.5	38.6	54.0	15.4	107	252
10735.180	X / H	36.4	-4.8	31.6	54.0	22.4	127	77
17239.300	X / H	42.1	-4.6	37.5	54.0	16.5	125	316

Note: Level AV = Reading AV + Factor

Table 14: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, Mode A (2402MHz)

Freq. [MHz]	EUT / Antenna Orientation	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1920.219	X / H	56.3	-16.4	39.9	74.0	34.1	100	149
7994.967	X / V	50.9	1.5	52.4	74.0	21.6	107	252
10735.180	X / H	50.0	-4.8	45.2	74.0	28.8	127	77
17239.300	X / H	55.7	-4.6	51.1	74.0	22.9	125	316

Note: Level PK = Reading PK + Factor

Table 15: Radiated Emissions, Quasi Peak Data, 30MHz - 1GHz, Horizontal and Vertical Antenna Orientations, Mode B (2441MHz)

Freq. [MHz]	EUT / Antenna Orientation	Reading QP [dBµV]	Factor [dB(1/m)]	Level QP [dBµV/m]	Limit [dBµV/m]	Margin QP [dB]	Height [cm]	Angle [°]
32.070	Z / V	40.2	-17.3	22.9	40.0	17.1	100	359
52.926	Z / V	47.4	-16.1	31.3	40.0	8.7	100	41
75.103	Z / V	43.4	-18.5	24.9	40.0	15.1	100	89
294.390	Z / H	53.6	-13.6	40.0	46.0	6.0	116	135
480.047	Z / V	38.5	-8.2	30.3	46.0	15.7	100	178
534.794	Z / H	38.5	-7.2	31.3	46.0	14.7	121	48

Note: Level QP = Reading QP + Factor

Table 16: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, Mode B (2441MHz)

Freq. [MHz]	EUT / Antenna Orientation	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1920.204	Z / H	50.2	-16.4	33.8	54.0	20.2	101	150
7683.736	Z / H	38.5	0.8	39.3	54.0	14.7	199	353
11897.420	X / H	37.6	-5.8	31.8	54.0	22.2	183	328
16153.400	X / V	42.3	-4.9	37.4	54.0	16.6	164	215

Note: Level AV = Reading AV + Factor

Table 17: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, Mode B (2441MHz)

Freq. [MHz]	EUT / Antenna Orientation	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1920.204	Z / H	56.9	-16.4	40.5	74.0	33.5	101	150
7683.736	Z / H	52.8	0.8	53.6	74.0	20.4	199	353
11897.420	X / H	52.0	-5.8	46.2	74.0	27.8	183	328
16153.400	X / V	56.5	-4.9	51.6	74.0	22.4	164	215

Note: Level PK = Reading PK + Factor

Table 18: Radiated Emissions, Quasi Peak Data, 30MHz - 1GHz, Horizontal and Vertical Antenna Orientations, Mode C (2480MHz)

Freq. [MHz]	EUT / Antenna Orientation	Reading QP [dBµV]	Factor [dB(1/m)]	Level QP [dBµV/m]	Limit [dBµV/m]	Margin QP [dB]	Height [cm]	Angle [°]
32.047	Z / V	41.1	-17.3	23.8	40.0	16.2	101	68
36.402	Z / V	36.6	-16.5	20.1	40.0	19.9	101	64
55.580	Z / V	46.3	-16.3	30.0	40.0	10.0	117	355
294.235	Z / H	55.1	-13.6	41.5	46.0	4.5 (*)	123	131
480.049	Z / H	39.0	-8.2	30.8	46.0	15.2	100	139
534.980	Z / H	39.0	-7.2	31.8	46.0	14.2	101	44

Note: Level QP = Reading QP + Factor

(*) The measured result is below the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to determine compliance at a level of confidence of 95%. However, the measured result indicates a high probability that the tested product complies with the specification limit.

Table 19: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, Mode C (2480MHz)

Freq. [MHz]	EUT / Antenna Orientation	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1920.201	Z / H	49.5	-16.4	33.1	54.0	20.9	101	257
7998.539	Z / H	37.2	1.5	38.7	54.0	15.3	195	12
11913.040	X / H	37.8	-5.7	32.1	54.0	21.9	126	102
16364.520	X / V	42.1	-5.1	37.0	54.0	17.0	177	42

Note: Level AV = Reading AV + Factor

Table 20: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, Mode C (2480MHz)

Freq. [MHz]	EUT / Antenna Orientation	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1920.201	Z / H	56.2	-16.4	39.8	74.0	34.2	101	257
7998.539	Z / H	51.1	1.5	52.6	74.0	21.4	195	12
11913.040	X / H	51.2	-5.7	45.5	74.0	28.5	126	102
16364.520	X / V	55.7	-5.1	50.6	74.0	23.4	177	42

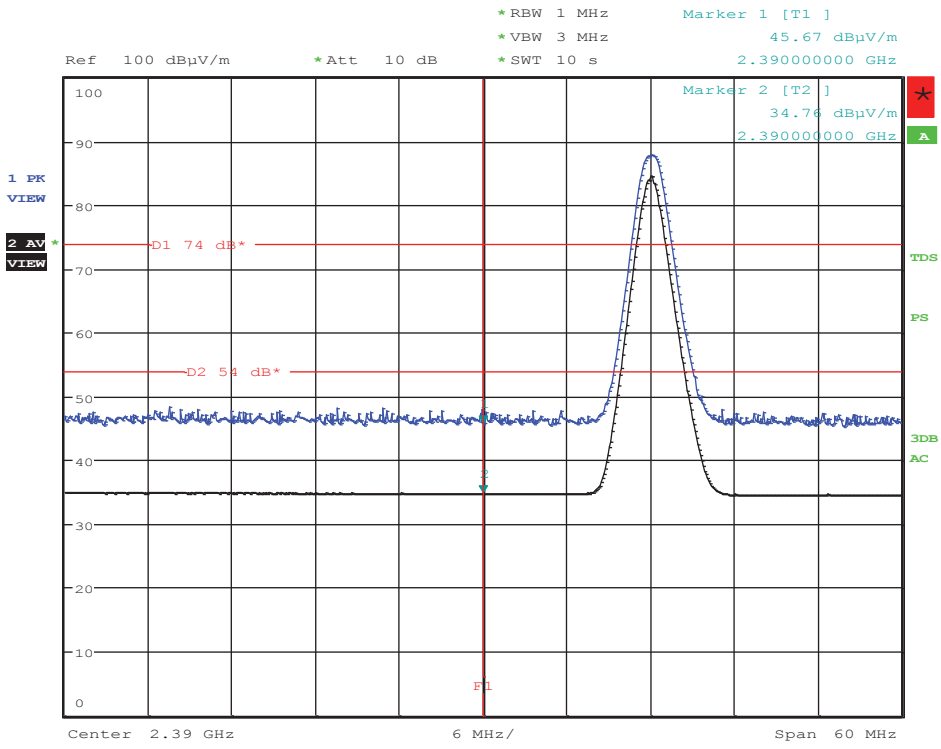
Note: Level PK = Reading PK + Factor

Table 21: Radiated Emissions at Band Edge, Modes A (2402MHz) and C (2480MHz), GFSK

Operating Frequency [MHz]	EUT / Antenna Orientation	Level AV [dBµV/m]	Level PK [dBµV/m]	Limit AV [dBµV/m]	Limit PK [dBµV/m]	Margin AV [dB]	Margin PK [dB]
2402.00	Y / V	34.76	45.67	54.0	74.0	19.24	28.33
2480.00	Y / V	44.62	51.78	54.0	74.0	9.38	22.22

Notes: All correction factors (antenna, cable, pre-amplifier) are included in the measurement values.
Average limit in dBµV/m is calculated as follows: Average limit = 20 x log(500µV/m).
Peak limit in dBµV/m is calculated as follows: Peak limit = Average limit + 20dB.

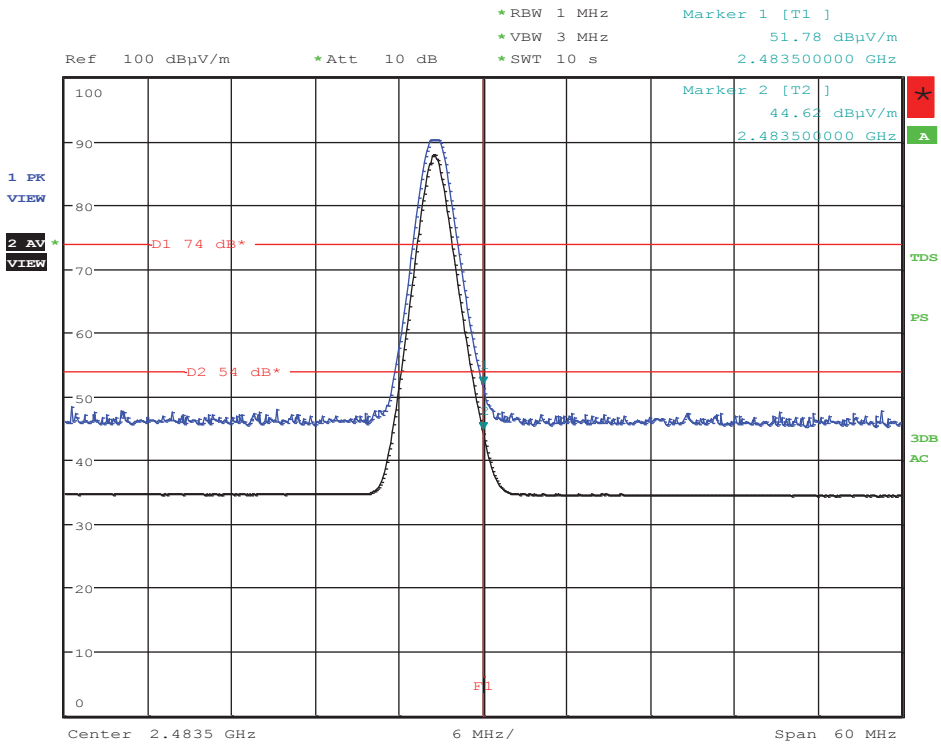
Figure 38: Radiated Emissions at Band Edge, Spectral Diagram, Mode A (2402MHz), GFSK



Band Edge, Mode A, DH5
Date: 19.MAR.2014 15:22:17

Note: The upper trace shows the peak value and the lower trace shows the average value.

Figure 39: Radiated Emissions at Band Edge, Spectral Diagram, Mode C (2480MHz), GFSK



Band Edge, Mode C, DH5
Date: 19.MAR.2014 16:20:35

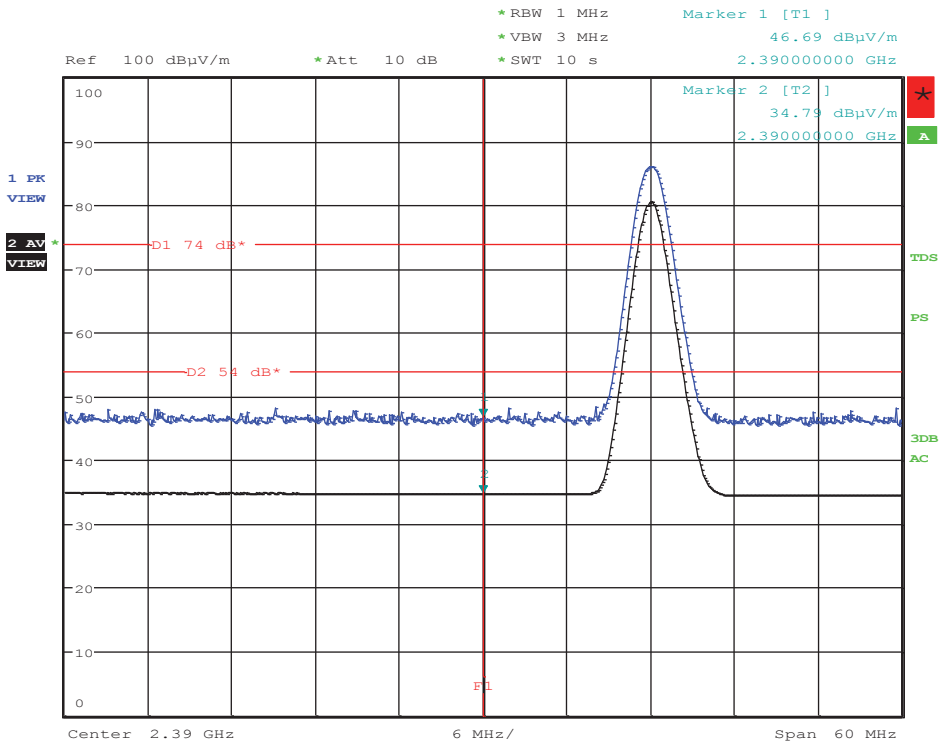
Note: The upper trace shows the peak value and the lower trace shows the average value.

Table 22: Radiated Emissions at Band Edge, Modes A (2402MHz) and C (2480MHz), 8DPSK

Operating Frequency [MHz]	EUT / Antenna Orientation	Level AV [dBµV/m]	Level PK [dBµV/m]	Limit AV [dBµV/m]	Limit PK [dBµV/m]	Margin AV [dB]	Margin PK [dB]
2402.00	Y / V	34.79	46.69	54.0	74.0	19.21	27.31
2480.00	Y / V	45.14	54.00	54.0	74.0	8.86	20.00

Notes: All correction factors (antenna, cable, pre-amplifier) are included in the measurement values.
Average limit in dBµV/m is calculated as follows: Average limit = 20 x log(500µV/m).
Peak limit in dBµV/m is calculated as follows: Peak limit = Average limit + 20dB.

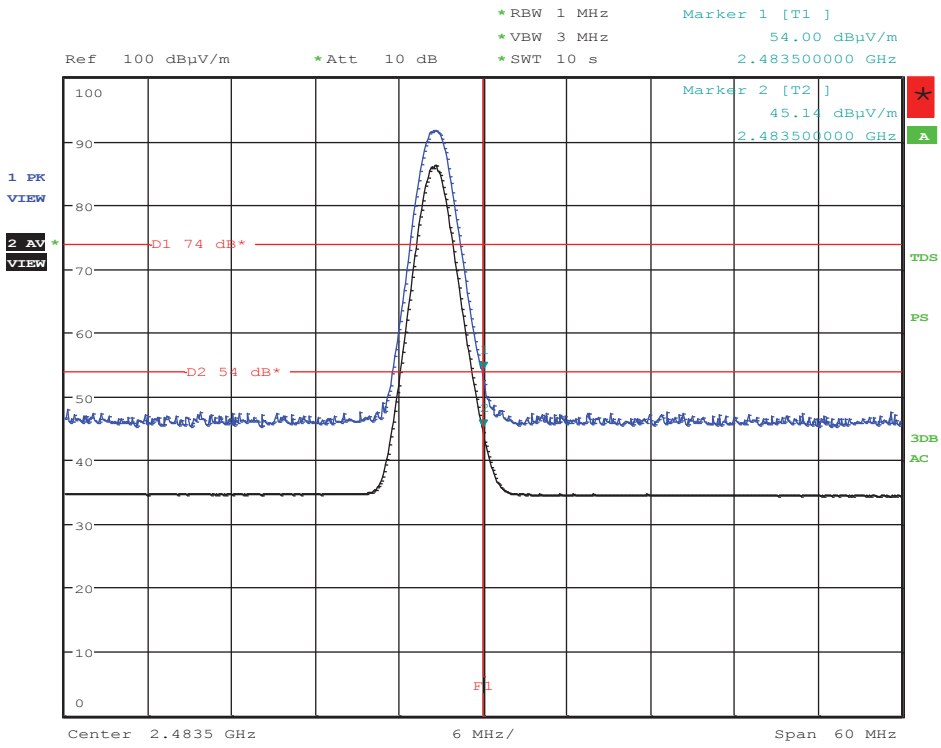
Figure 40: Radiated Emissions at Band Edge, Spectral Diagram, Mode A (2402MHz), 8DPSK



Band Edge, Mode A, 3-DH5
Date: 19.MAR.2014 15:34:03

Note: The upper trace shows the peak value and the lower trace shows the average value.

Figure 41: Radiated Emissions at Band Edge, Spectral Diagram, Mode C (2480MHz), 8DPSK



Band Edge, Mode C, 3-DH5
Date: 19.MAR.2014 16:33:32

Note: The upper trace shows the peak value and the lower trace shows the average value.

5.4 AC Power Line Conducted Measurements

5.4.1 AC Power Line Conducted Emission of Transmitter

RESULT: **N/A**

Frequency range: 0.15 – 30MHz

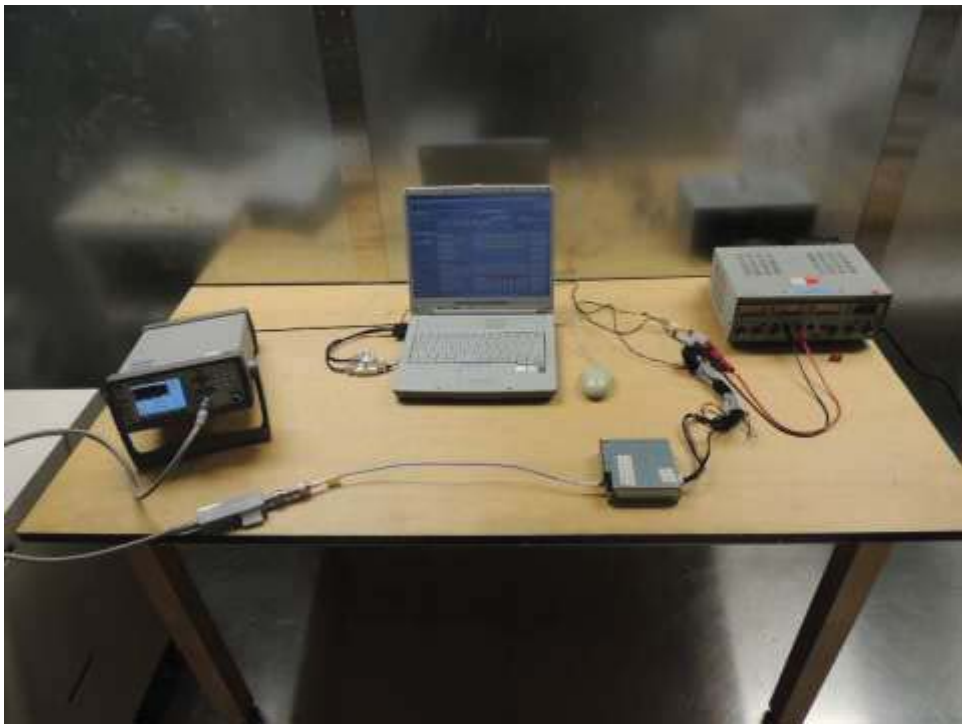
Requirements:

FCC 15.207 and RSS-Gen 7.2.4.

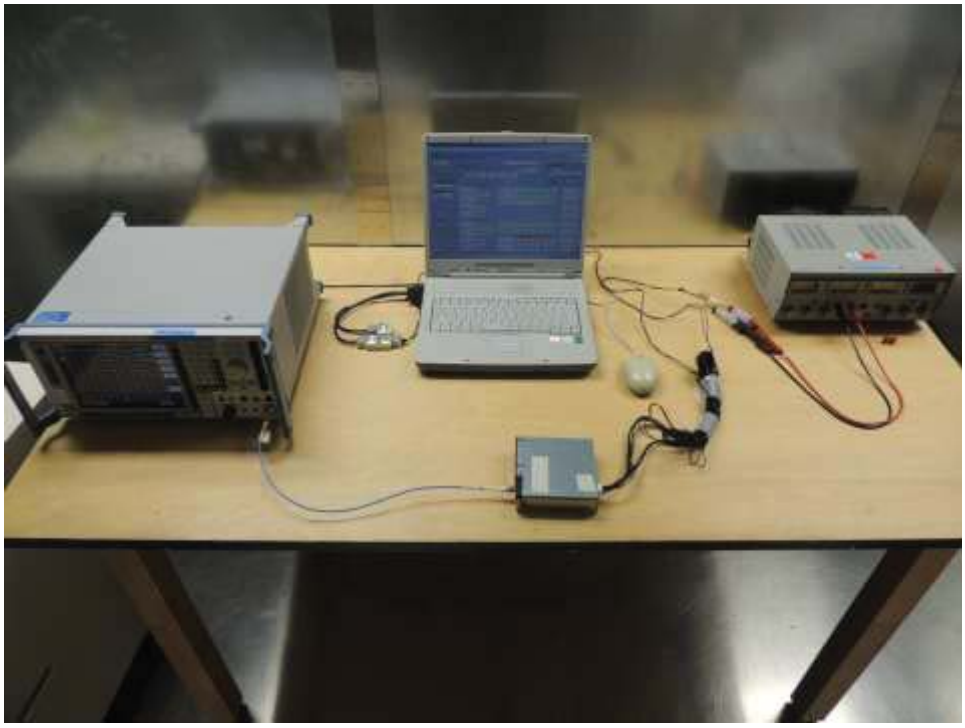
Note: This test is not applicable, since the EUT is for vehicular use only.

6. Photographs of the Test Setup

Photograph 1: Set-up for Conducted Power Measurement at Antenna Port

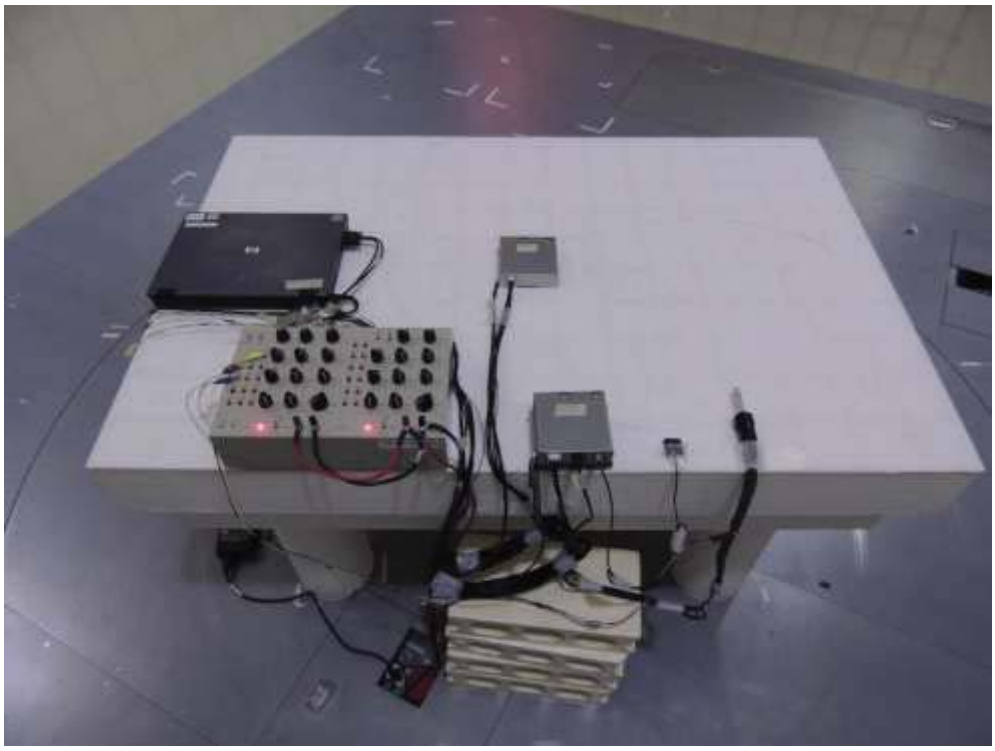


Photograph 2: Set-up for Conducted Spurious Emissions



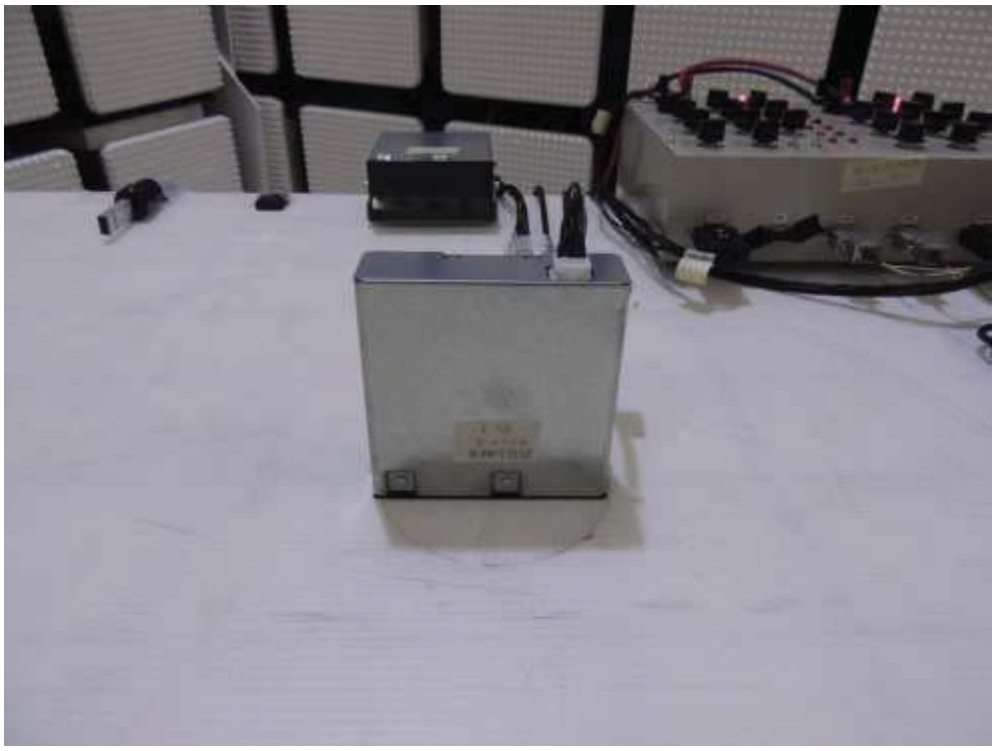
Photograph 3: Set-up for Radiated Emission of Transmitter, Front View

Photograph 4: Set-up for Radiated Emission of Transmitter, Rear View

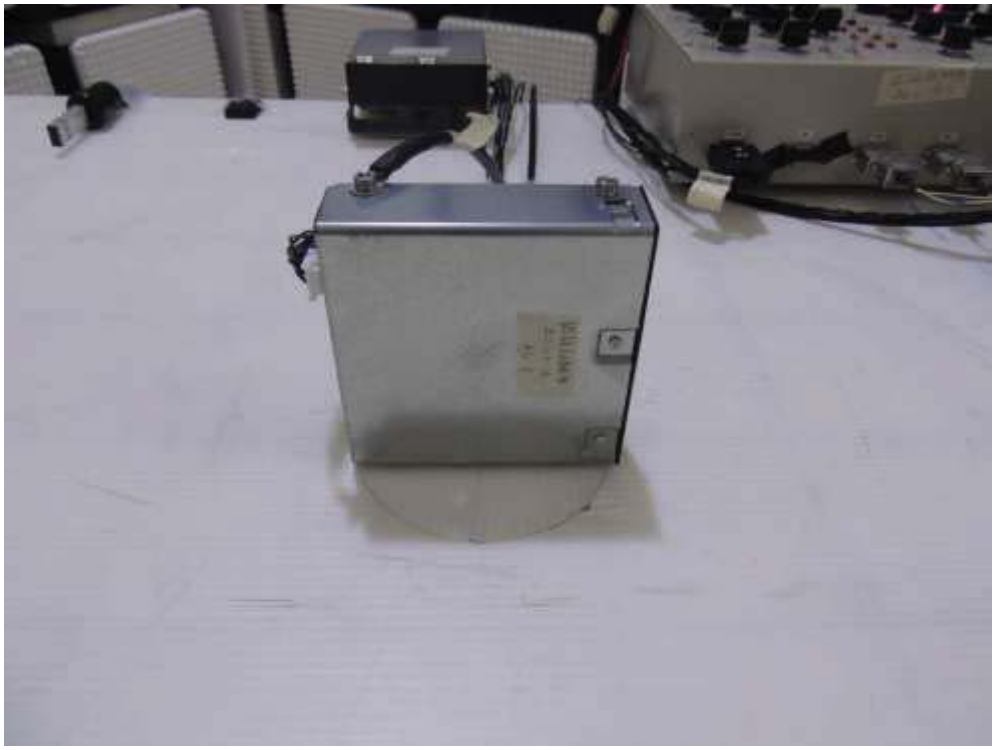


Photograph 5: Set-up for Radiated Emission, EUT Configuration X-Axis

Photograph 6: Set-up for Radiated Emission, EUT Configuration Y-Axis



Photograph 7: Set-up for Radiated Emission, EUT Configuration Z-Axis



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