Annex 1: Measurement diagrams to
T E S T R E P O R T
No.: 17-1-0047301T12a

According to:
FCC Regulations
Part 15.209
Part 15.247

IC-Regulations
RSS-Gen, Issue 4
RSS-247, Issue 1

for

Husqvarna AB

Fleet Machine Sensor (FMS)

FCC-ID: ZAS-FMS2
IC:23307-FMS2
PMN: Fleet Machine Sensor
HVIN: P1.2 B

Laboratory Accreditation and Listings		
DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-01 Accredited EMC-Test Laboratory	Industry Canada Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3	Voluntary Controls for Electromagnetic Emissions Reg. No.: R-20013, C-20009, T-20006, G-20013
Wi Fi ALLIANCE AUTHORIZED RF LABORATORY	ctia Authorized™ Test Lab Lab Code: 20011130-00	FEDERAL COMMUNICATIONS COMMISSION FC USA MRA US-EU 0003
accredited according to DIN EN ISO/IEC 17025		

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Laboratory Accreditation and Listings

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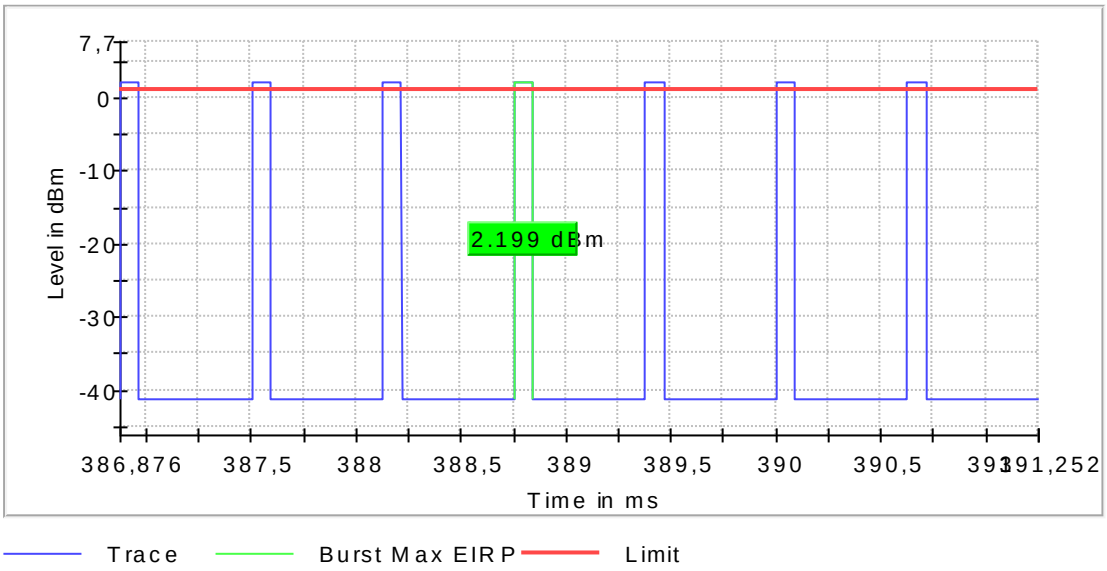
1. Conducted RF-measurements on antenna port

1.1. Duty cycle

DC-Ch0-2402MHz

DutyCycle

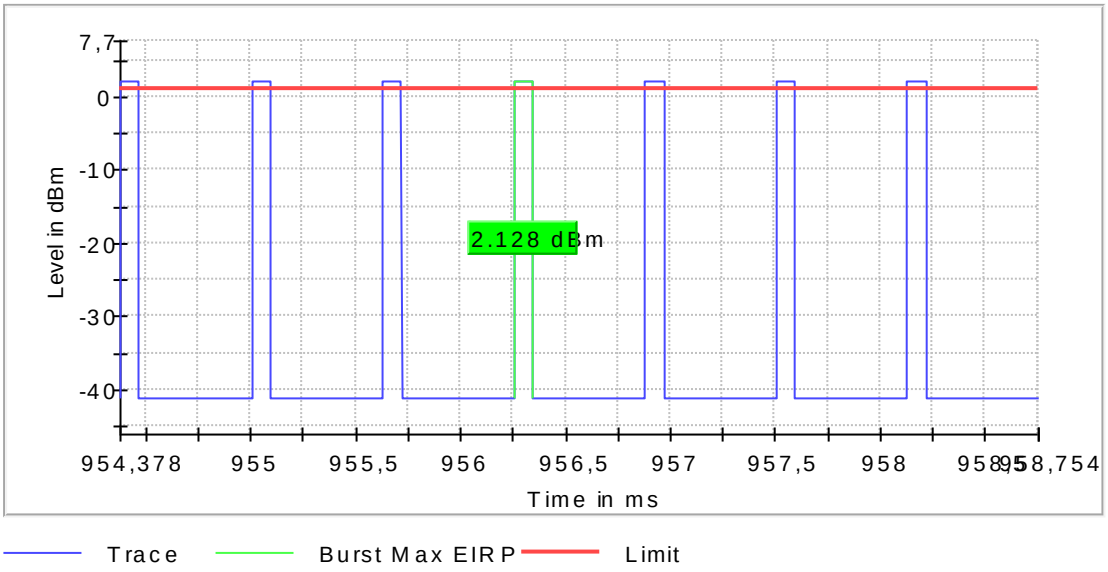
DutyCycle (%)	Limit Max (%)	Result
14.435	---	PASS



DC-Ch18-2442MHz

DutyCycle

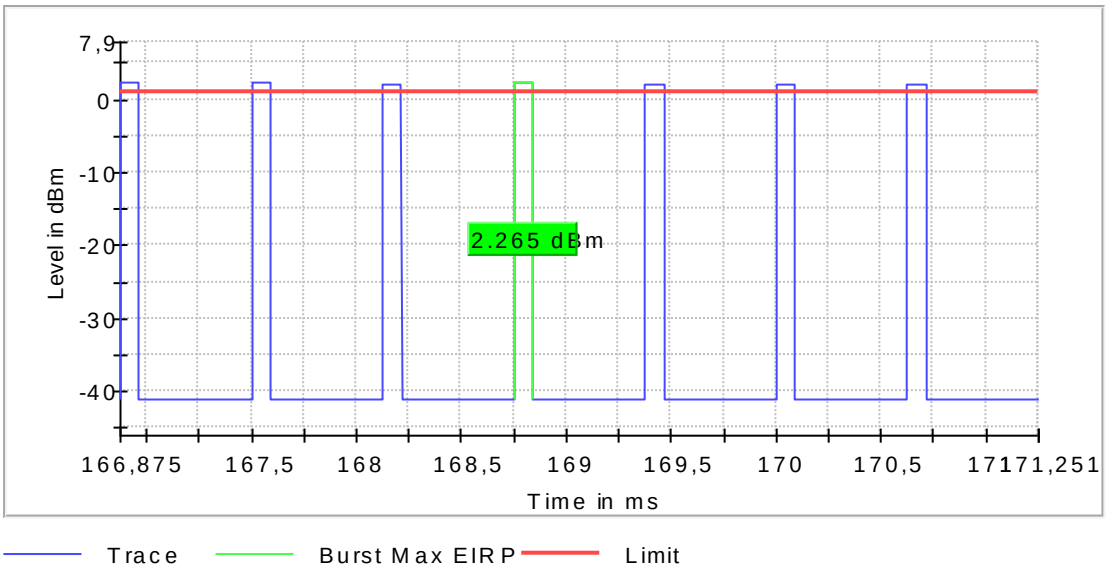
DutyCycle (%)	Limit Max (%)	Result
14.436	---	PASS


7,7
0
-10
-20
-30
-40
Level in dBm
2.128 dBm
954,378
955
955,5
956
956,5
957
957,5
958
958,754
Time in ms
Trace
Burst Max EIRP
Limit

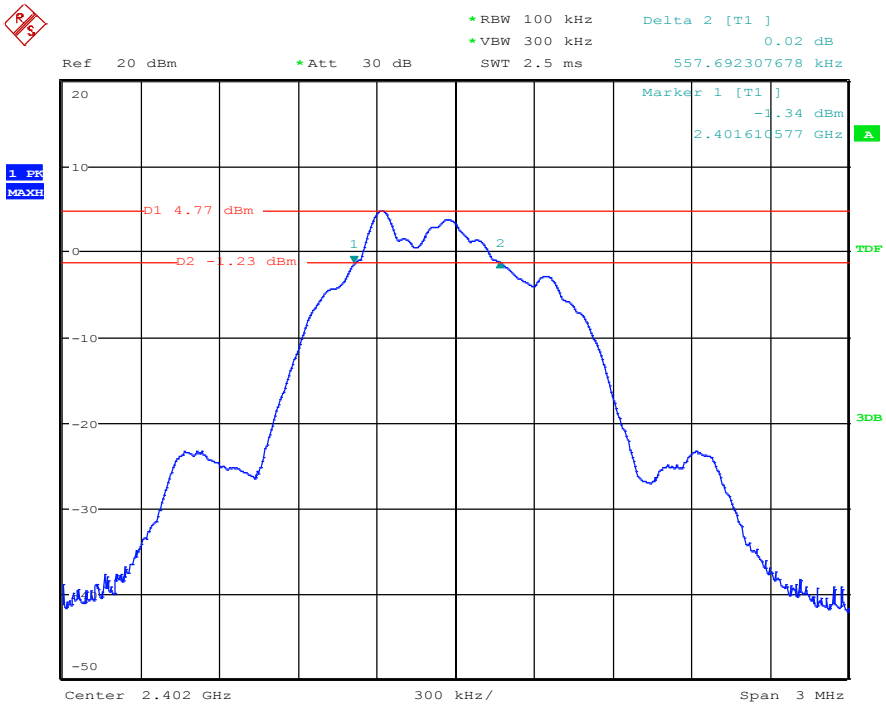
DC-Ch39-2480MHz

DutyCycle

DutyCycle (%)	Limit Max (%)	Result
14.435	---	PASS

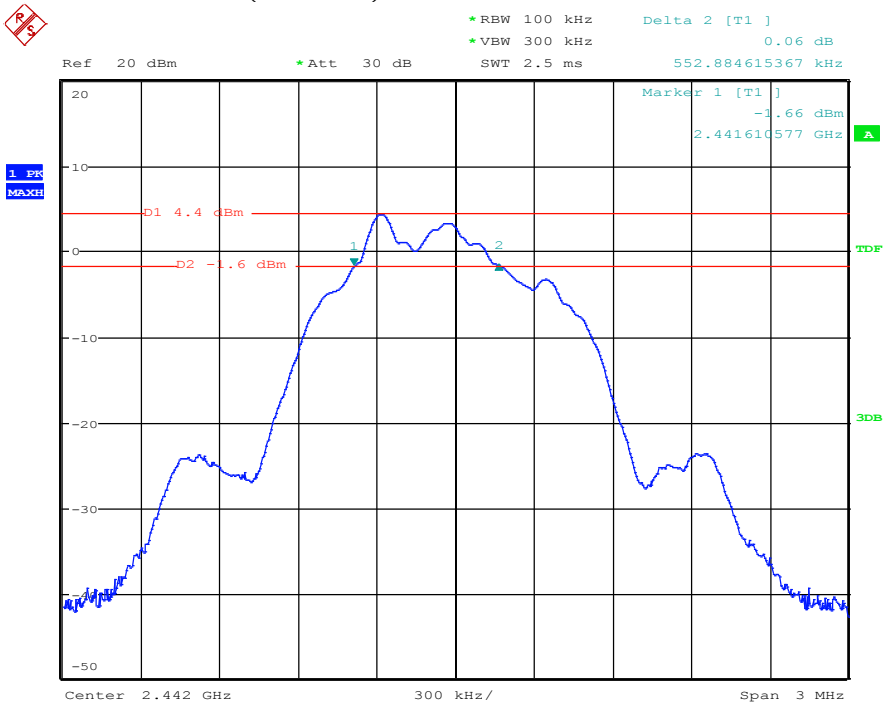


1.2. 6dB bandwidth



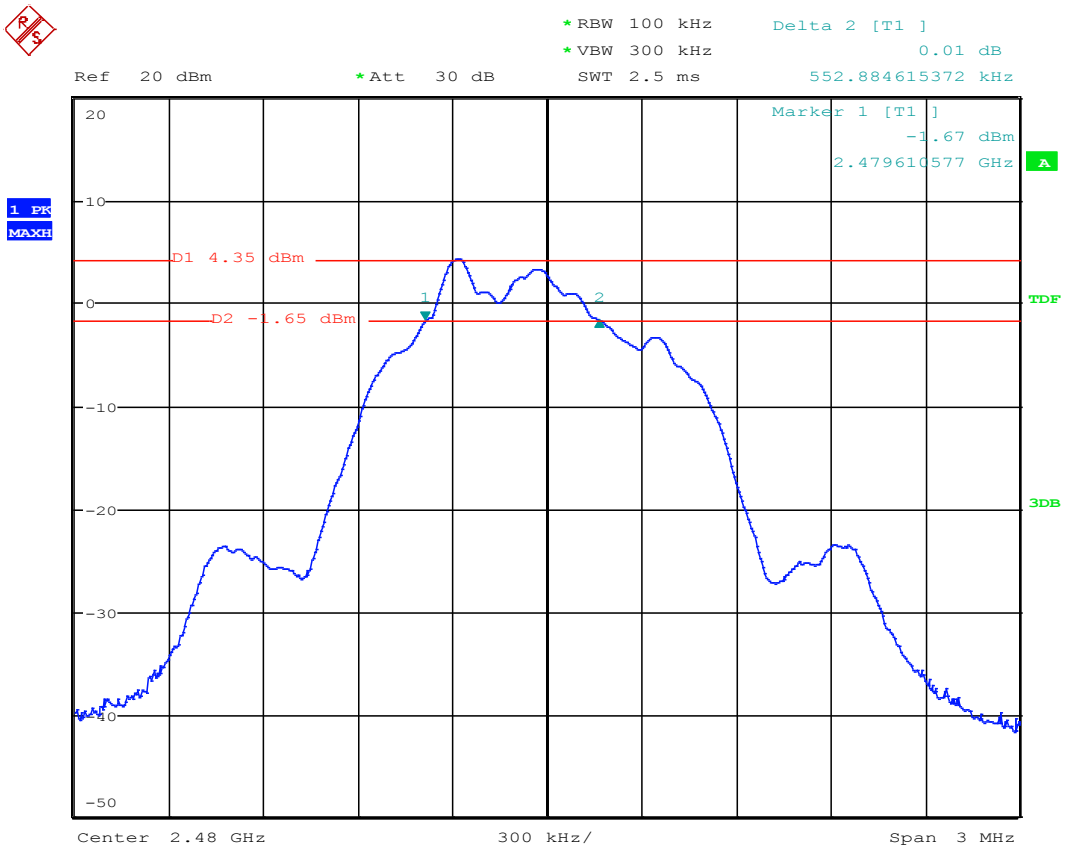
Date: 1.JUL.2017 14:40:11

BT-LE-6dB BW-CH0 (2402 MHz)



Date: 1.JUL.2017 14:29:32

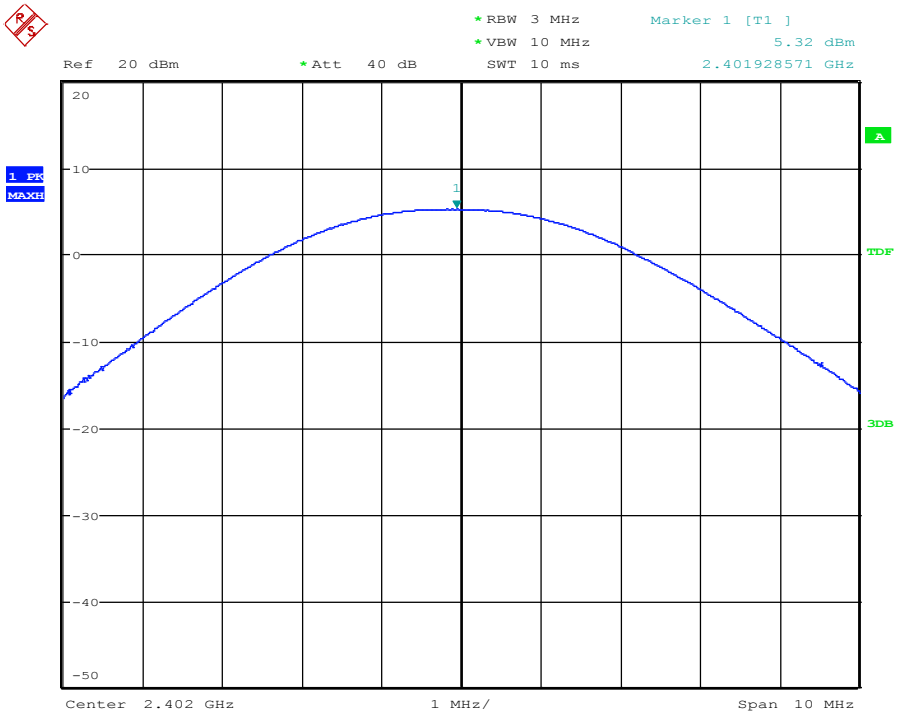
BT-LE-6dB BW-CH20 (2442 MHz)



Date: 1.JUL.2017 14:37:58

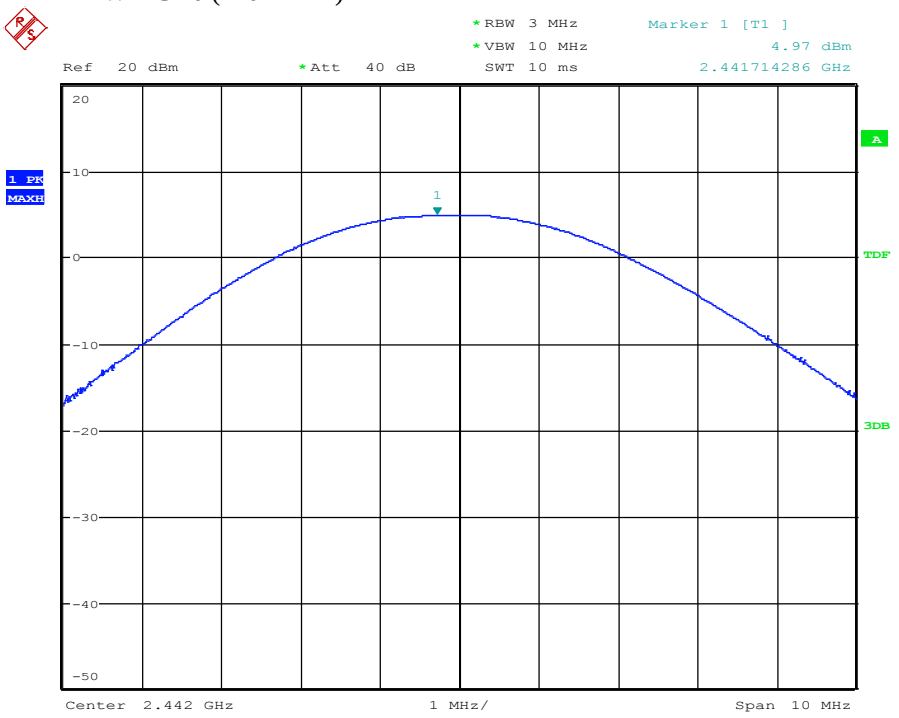
BT-LE-6dB BW-CH39 (2480 MHz)

1.3. Peak Power



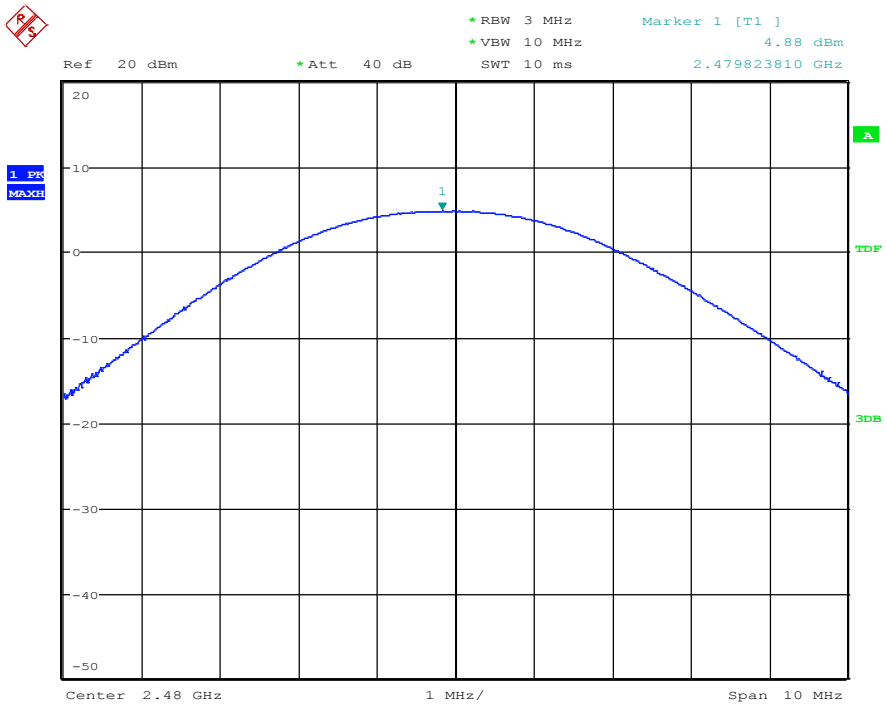
Date: 1.JUL.2017 13:44:12

BT-LE-PWR-CH0 (2402 MHz)



Date: 1.JUL.2017 13:48:46

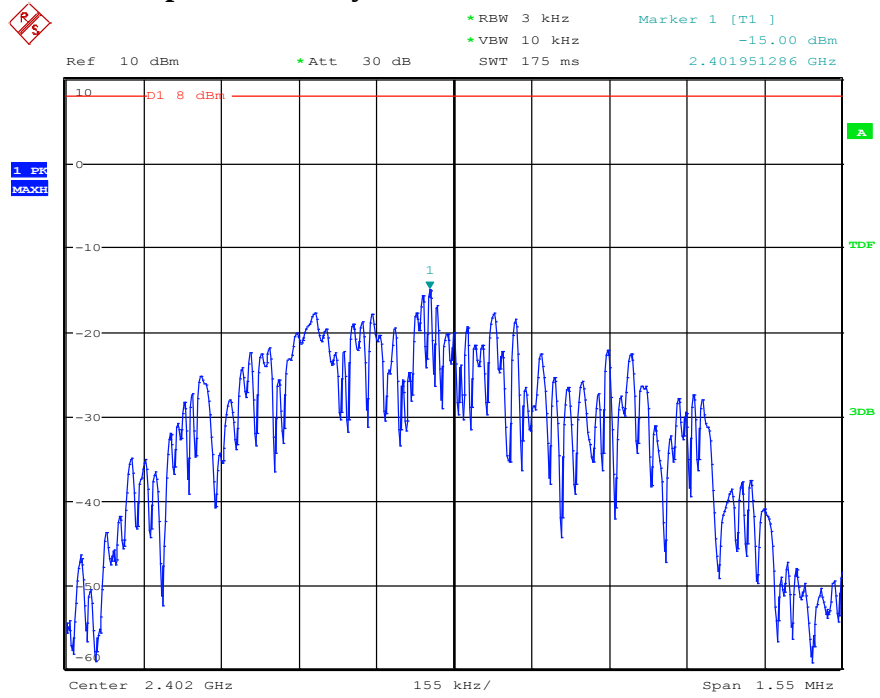
BT-LE-PWR-CH20 (2442 MHz)



Date: 1.JUL.2017 13:50:14

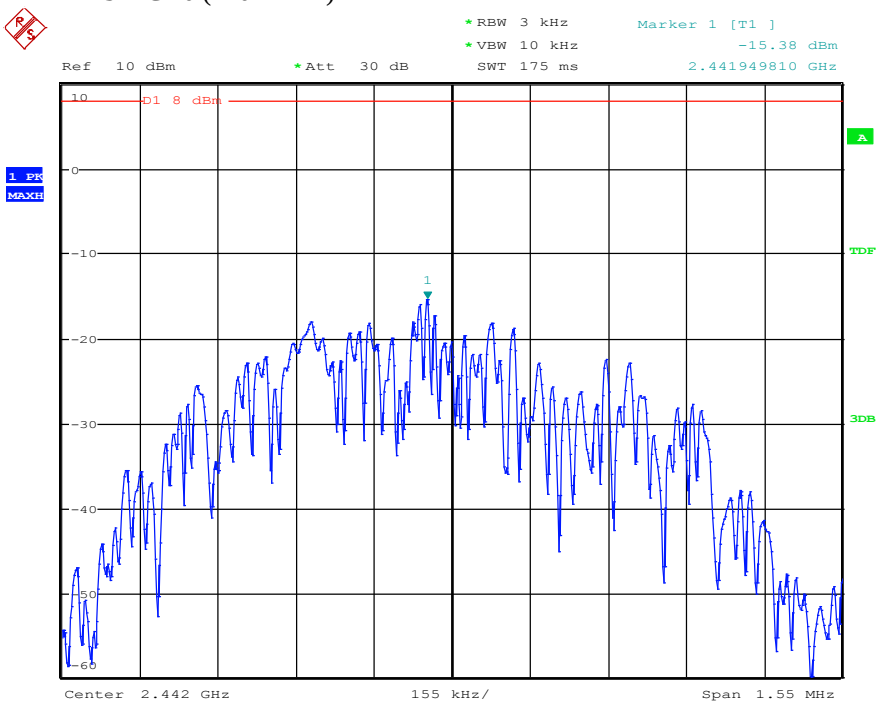
BT-LE-PWR-CH39 (2480 MHz)

1.4. Power spectral density

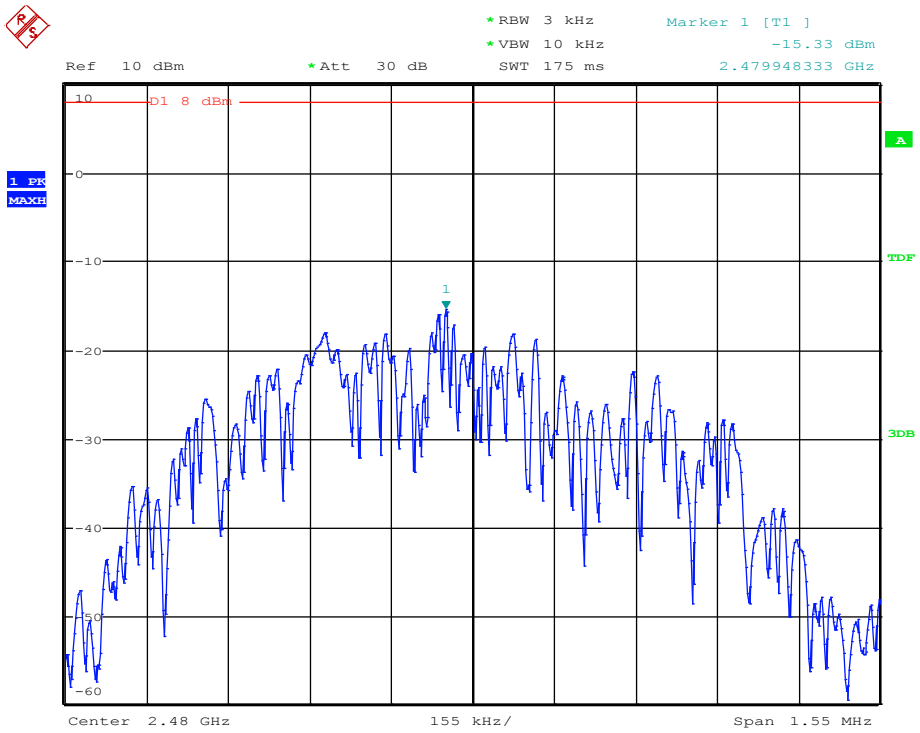


)

BT-LE-PSD-CH0 (2402 MHz)



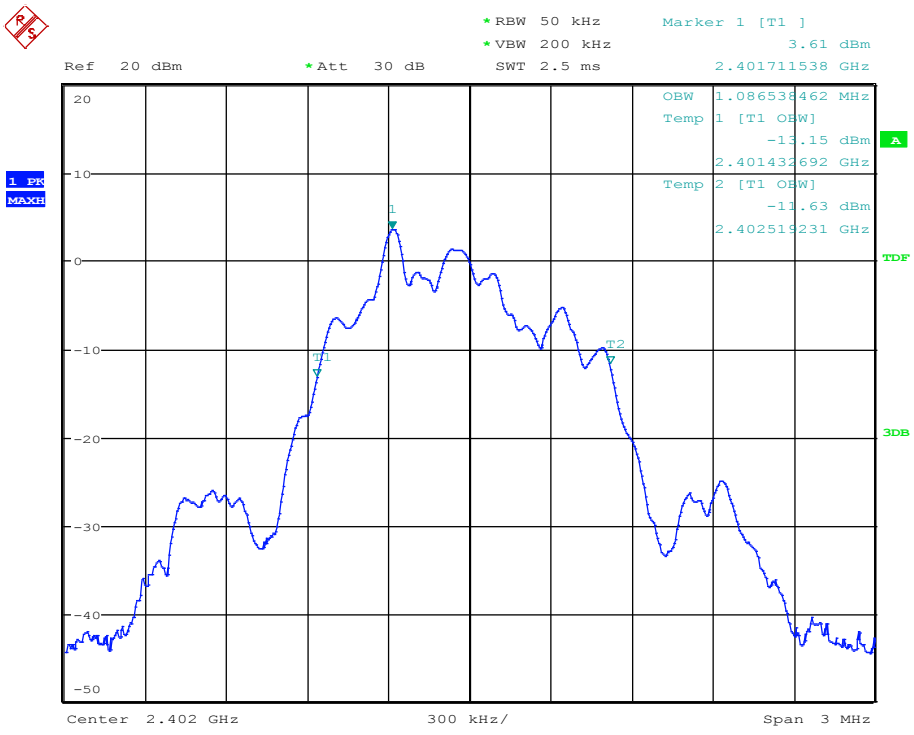
BT-LE-PSD-CH20 (2442 MHz)



Date: 1.JUL.2017 14:00:01

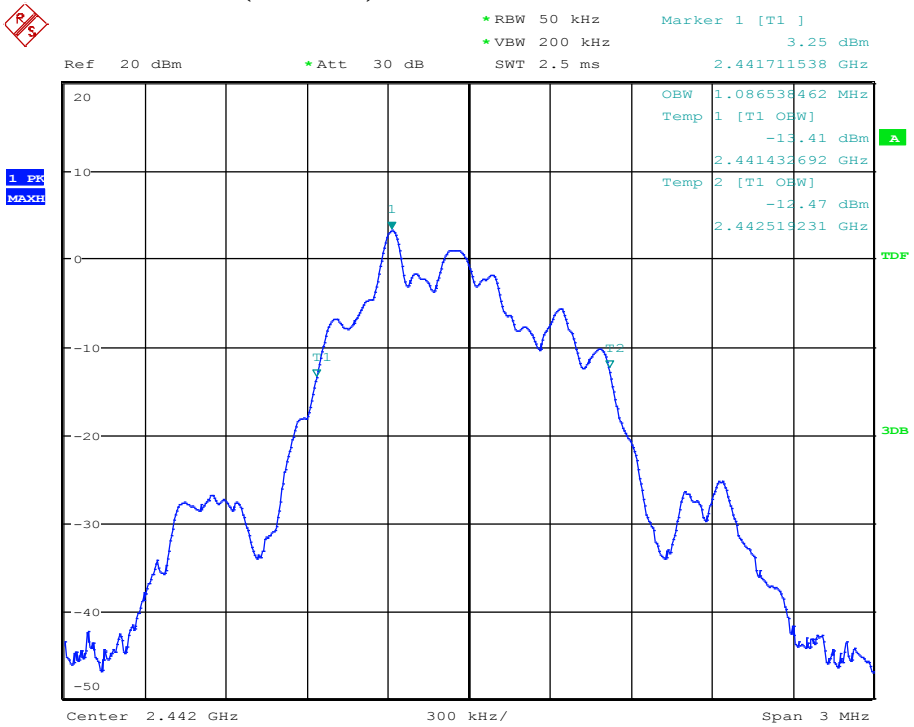
BT-LE-PSD-CH39 (2480 MHz)

1.5. 99% occupied channel bandwidth



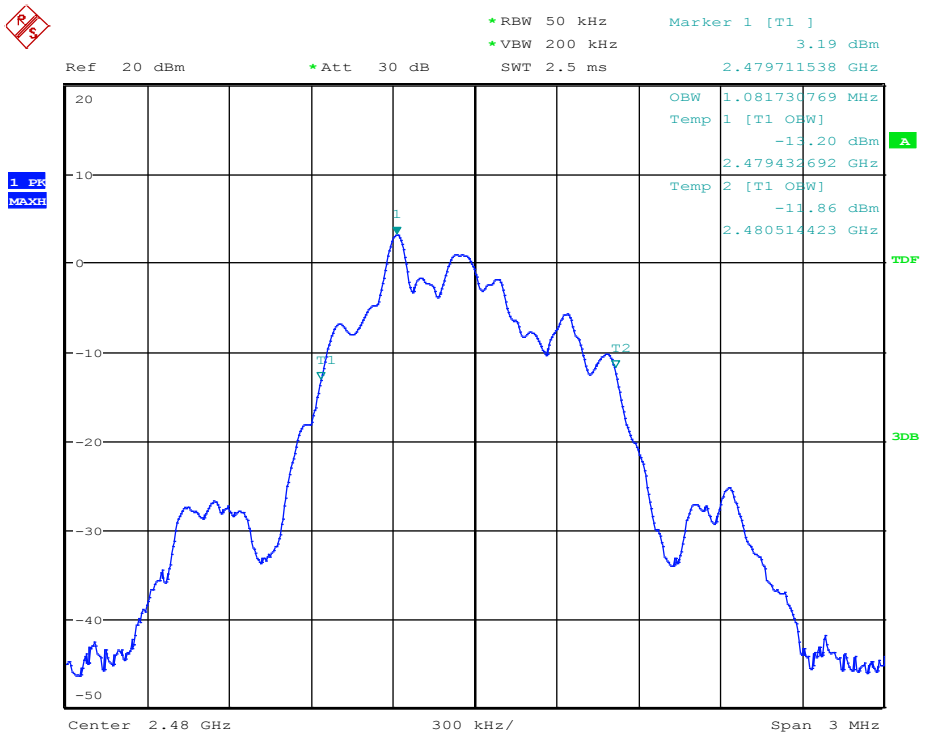
Date: 1.JUL.2017 14:15:14

BT-LE-99OBW-CH0 (2402 MHz)



Date: 1.JUL.2017 14:16:29

BT-LE-99OBW-CH20 (2442 MHz)

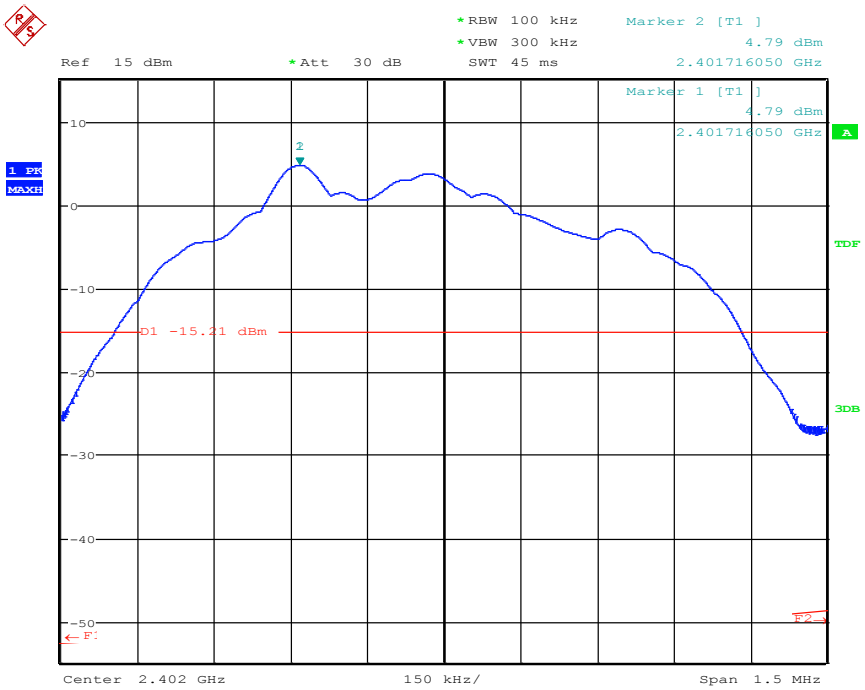


Date: 1.JUL.2017 14:17:35

BT-LE-99OBW-CH39 (2480 MHz)

1.6. 20dBc Emissions

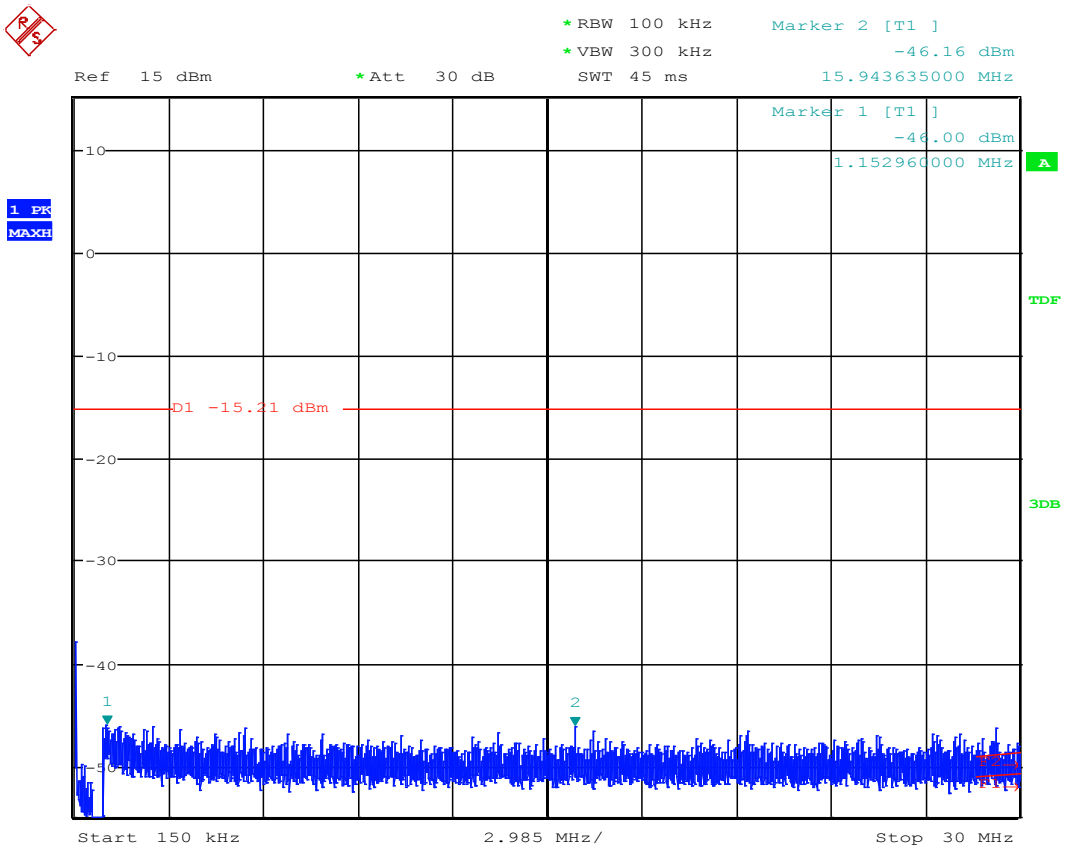
1.6.0.1. Channel 0 Reference



Date: 1.JUL.2017 14:53:53

BT-LE-20dBc-Ref-CH0 (2402 MHz)

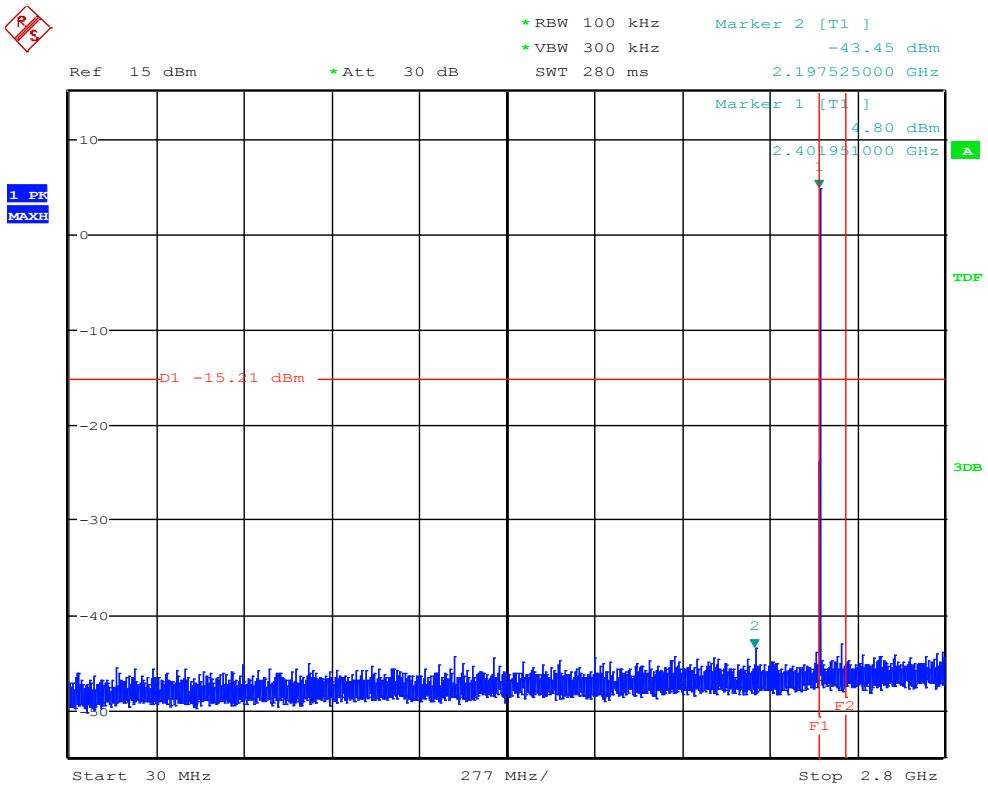
1.6.0.2. Sweep 1: 150kHz to 30MHz



Date: 1.JUL.2017 14:55:00

BT-LE-20dBc-0.15 MHz-30MHz-CH0 (2402 MHz)

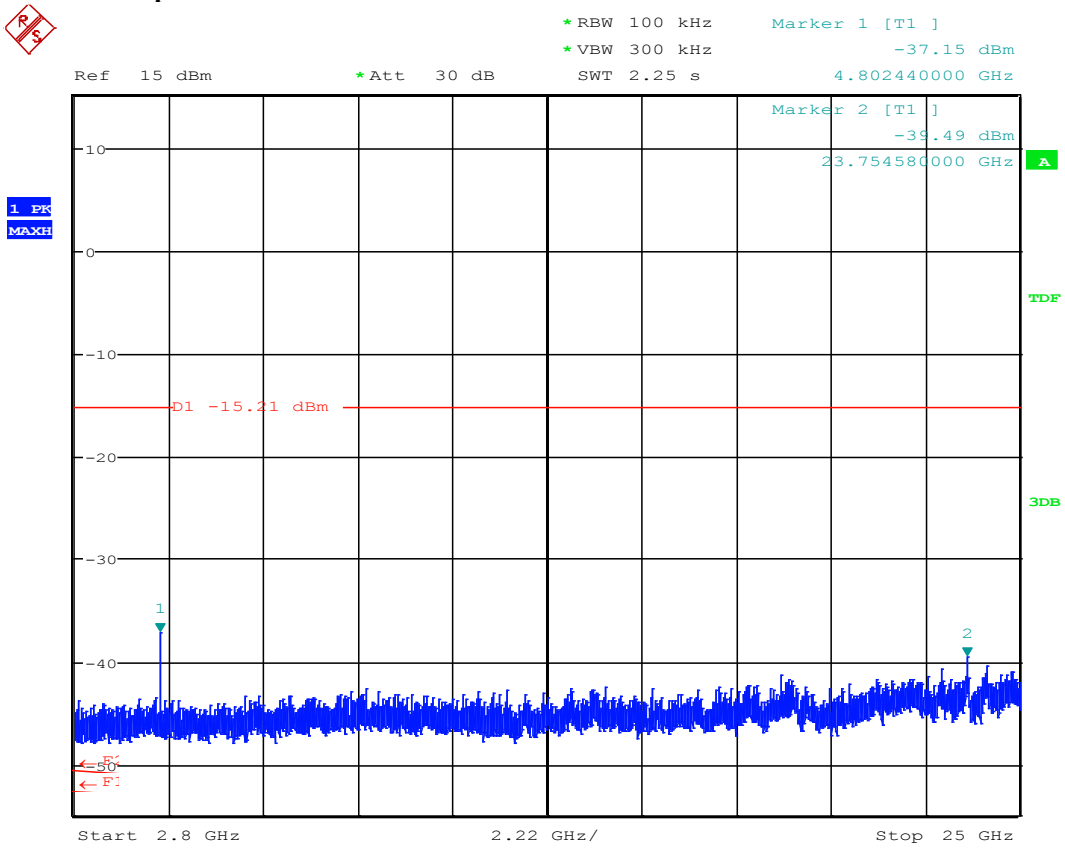
1.6.0.3. Sweep 2: 30MHz to 2.8GHz



Date: 1.JUL.2017 14:57:31

BT-LE-20dBc-30 MHz-2.8GHz-CH0 (2402 MHz)

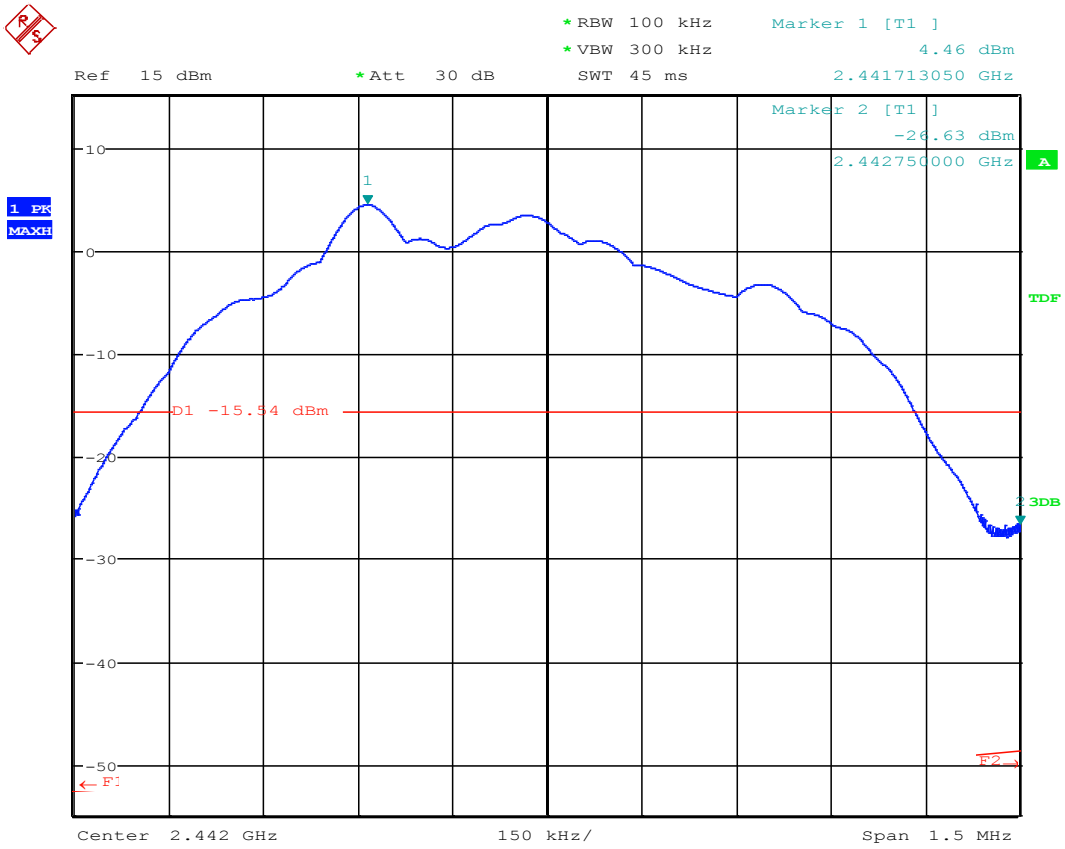
1.6.0.4. Sweep3: 2.8GHz to 25GHz



Date: 1.JUL.2017 15:00:36

BT-LE-20dBc-2.8GHz-25 GHz-CH0 (2402 MHz)

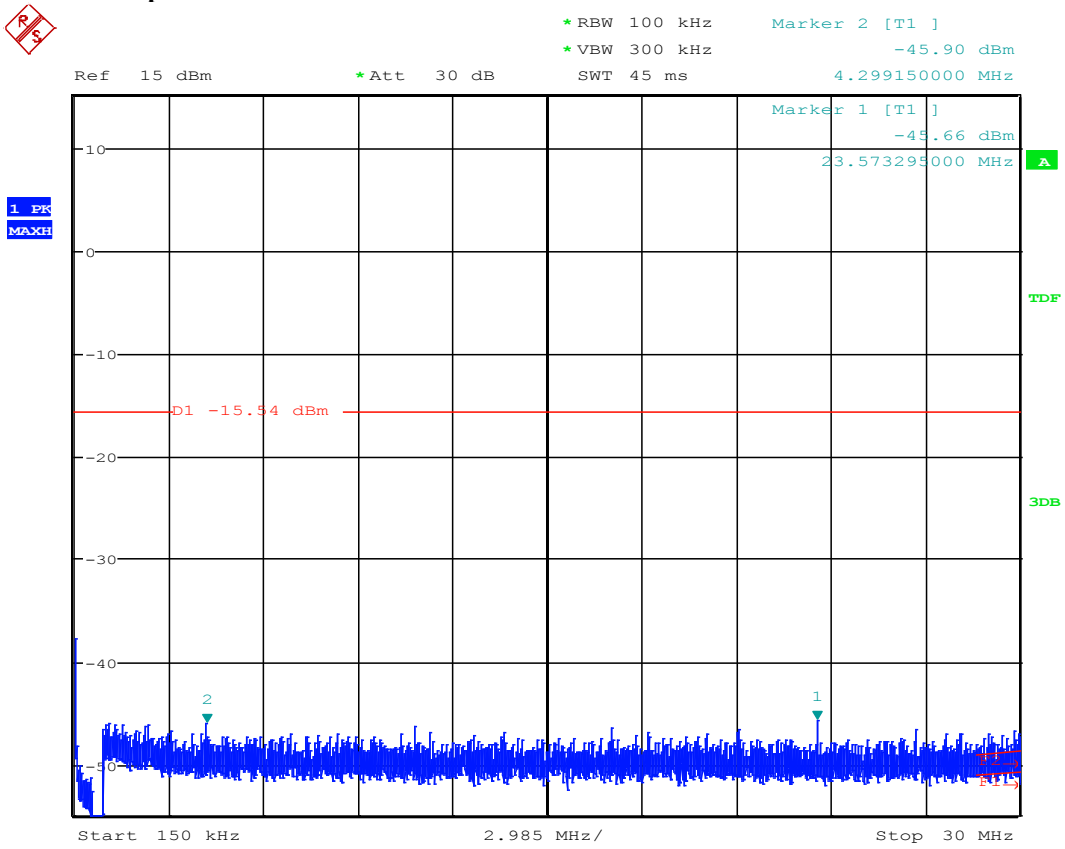
1.6.0.5. Channel 20 Reference



Date: 1.JUL.2017 15:09:16

BT-LE-20dBc-Ref-CH20 (2442 MHz)

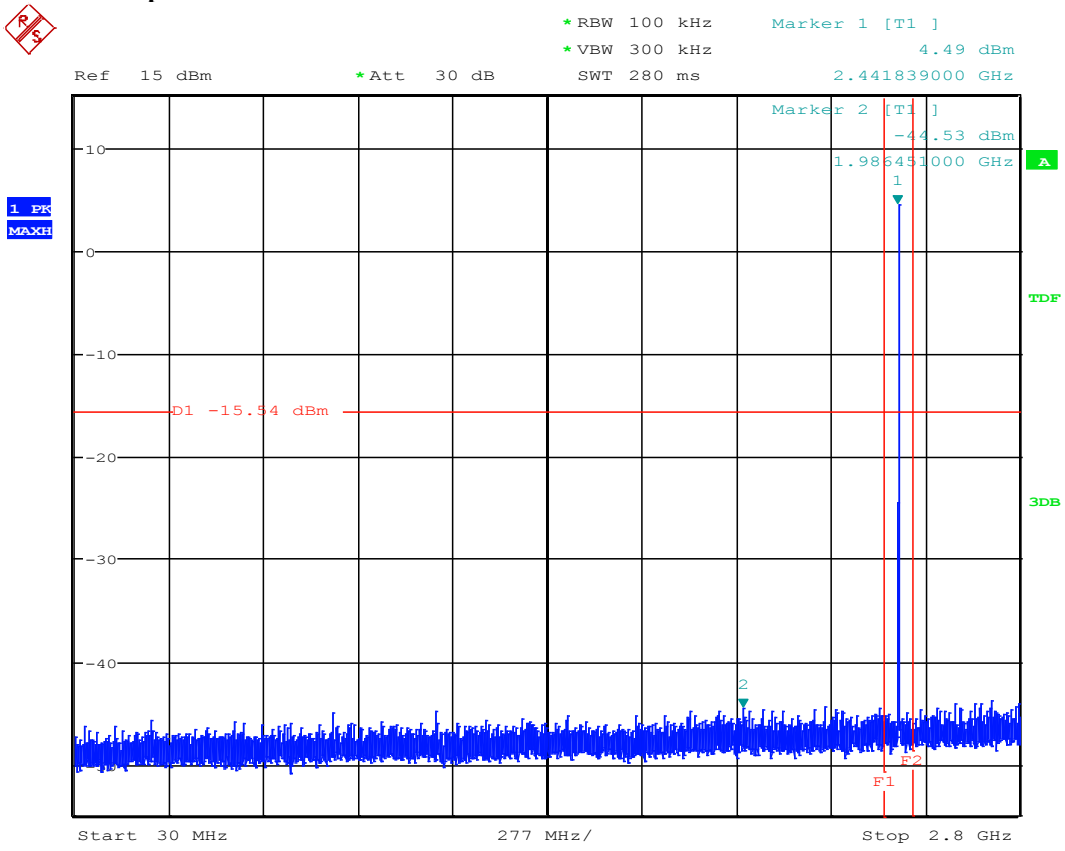
1.6.0.6. Sweep 1: 150kHz to 30MHz



Date: 1.JUL.2017 15:10:36

BT-LE-20dBc-0.15 MHz-30MHz-CH20 (2442 MHz)

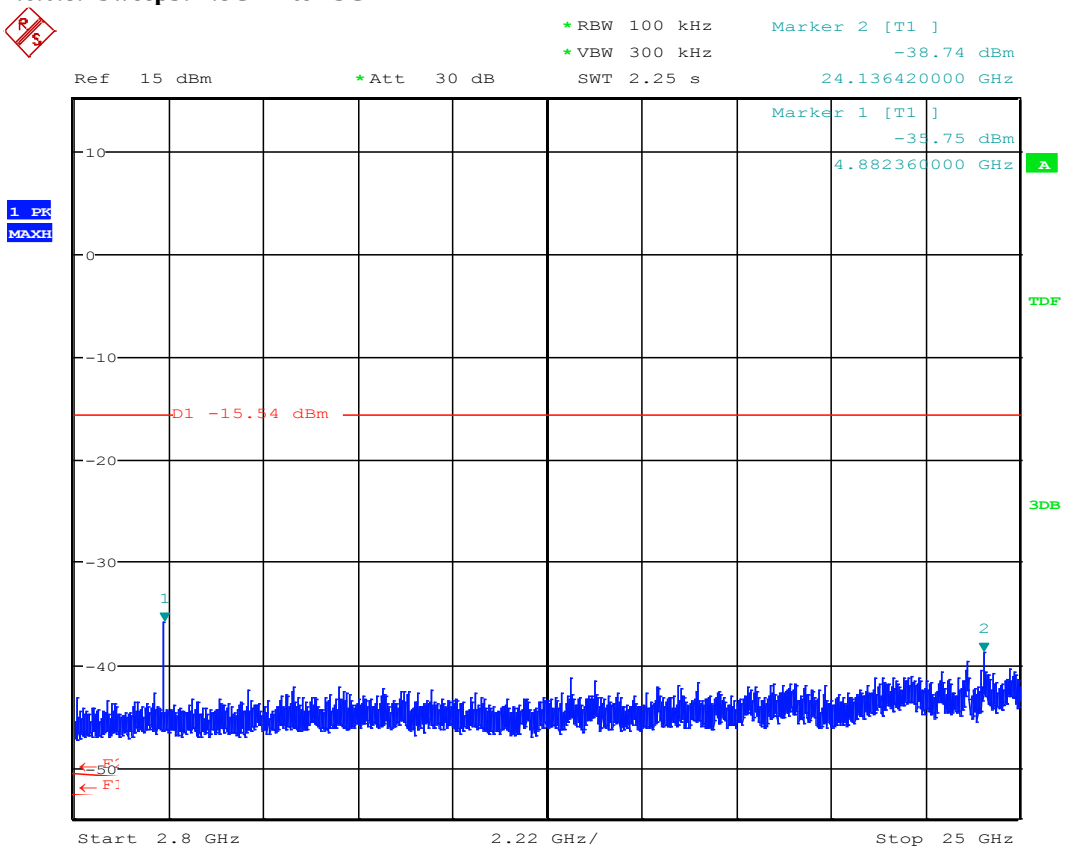
1.6.0.7. Sweep 2: 30MHz to 2.8GHz



Date: 1.JUL.2017 15:21:15

BT-LE-20dBc-30 MHz-2.8GHz-CH20 (2442 MHz)

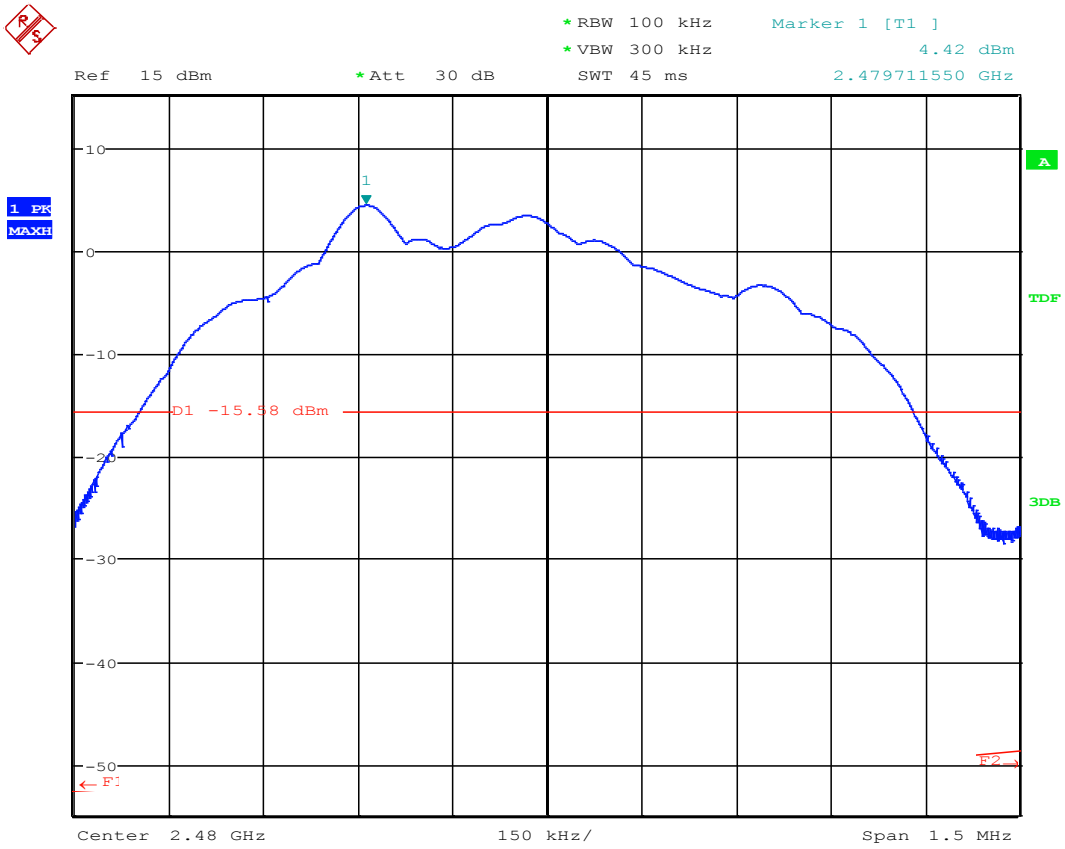
1.6.0.8. Sweep3: 2.8GHz to 25GHz



Date: 1.JUL.2017 15:23:47

BT-LE-20dBc-2.8GHz-25 GHz-CH20 (2442 MHz)

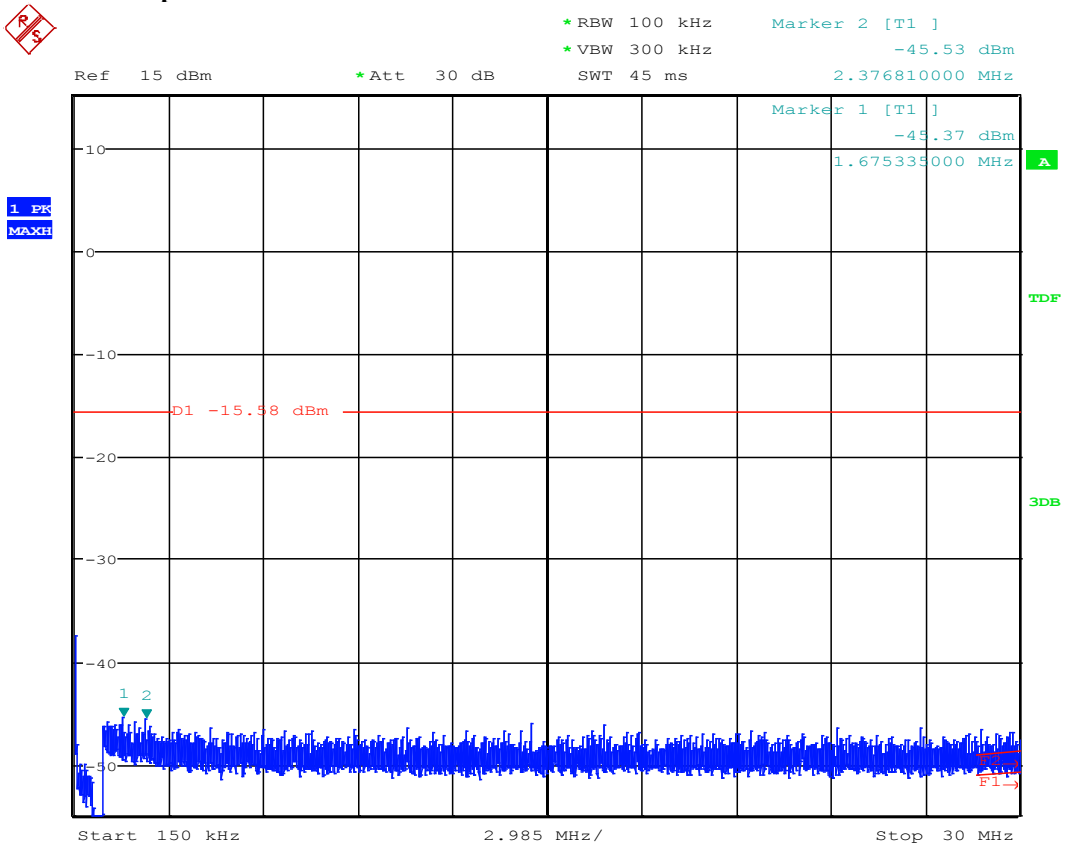
1.6.0.9. Channel 39 Reference



Date: 1.JUL.2017 15:26:40

BT-LE-20dBc-Ref-CH39 (2480 MHz)

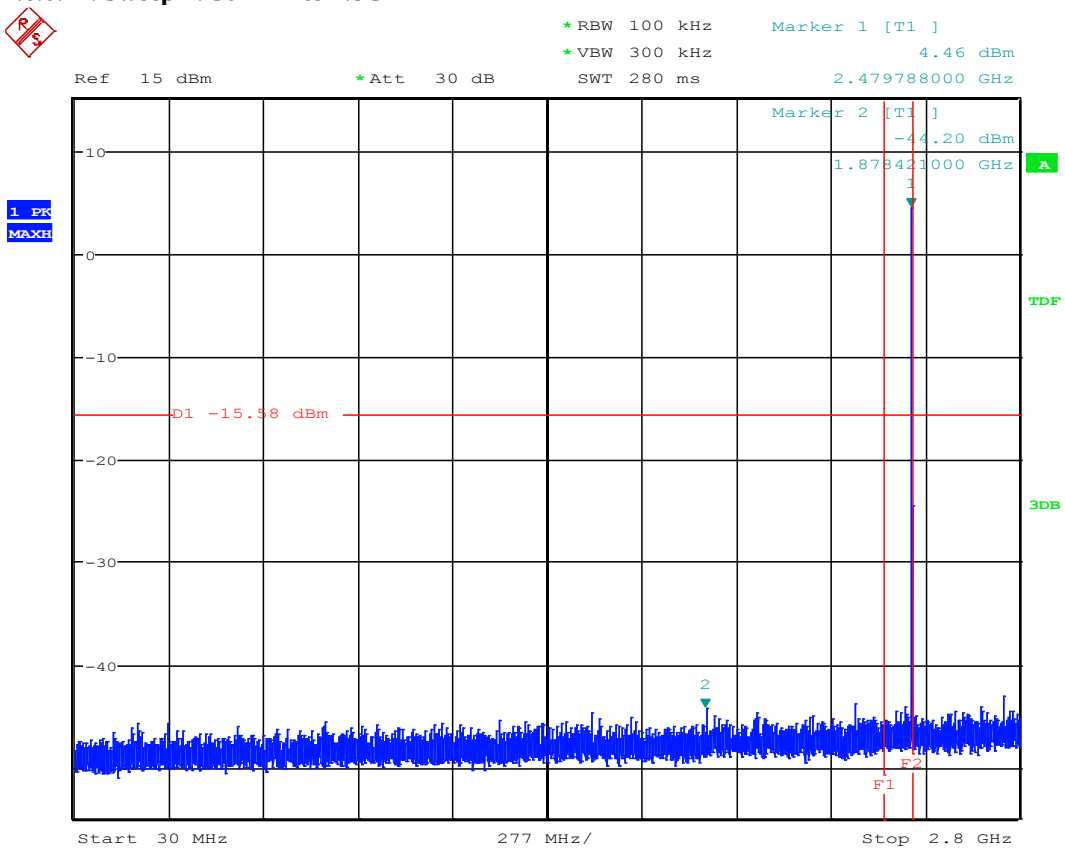
1.6.0.10. Sweep 1: 150kHz to 30MHz



Date: 1.JUL.2017 15:28:45

BT-LE-20dBc-0.15 MHz-30MHz-CH39 (2480 MHz)

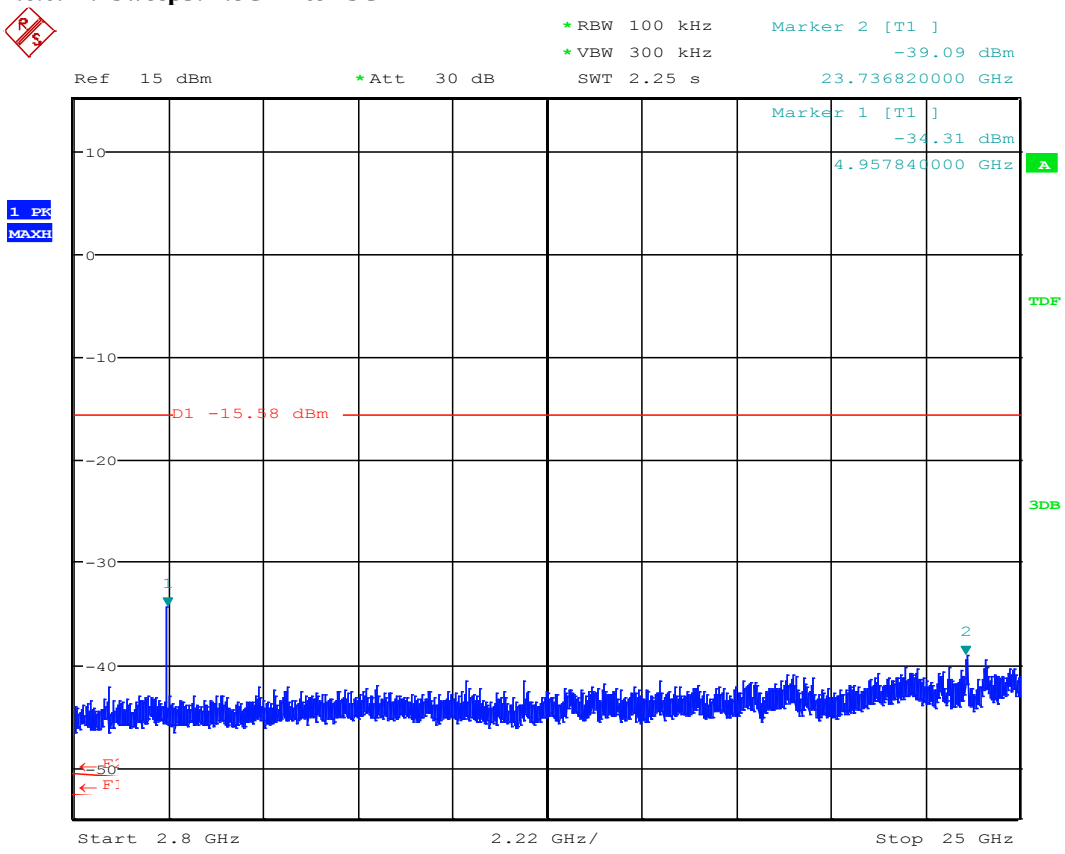
1.6.0.11. Sweep 2: 30MHz to 2.8GHz



Date: 1.JUL.2017 15:30:01

BT-LE-20dBc-30 MHz-2.8GHz-CH39 (2480 MHz)

1.6.0.12. Sweep3: 2.8GHz to 25GHz



Date: 1.JUL.2017 15:38:50

BT-LE-20dBc-2.8GHz-25 GHz-CH39 (2480 MHz)

2. Radiated field strength measurements accord. §15.209&15.205

2.1. Magnetic field measurements f<30MHz

Diagram No. 2.01_BT_LE_low

Date: 29.06.2017 Page 1 of 3

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	KIv
Operating conditions:	channel 0| 2402MHz
Power during tests:	full loaded batteries

EUT Information

Manufacturer:	Husqvarna AB
Model:	FMS
Type:	-
---	---
EUT:	-
HW version:	P1.2 B
SW version:	0.2.22.60
SVN:	-
Config:	-
Serial number:	102F005D
Connected Interfaces:	-
Power Supply:	Batteries CR2450
Comments:	-

Full Spectrum

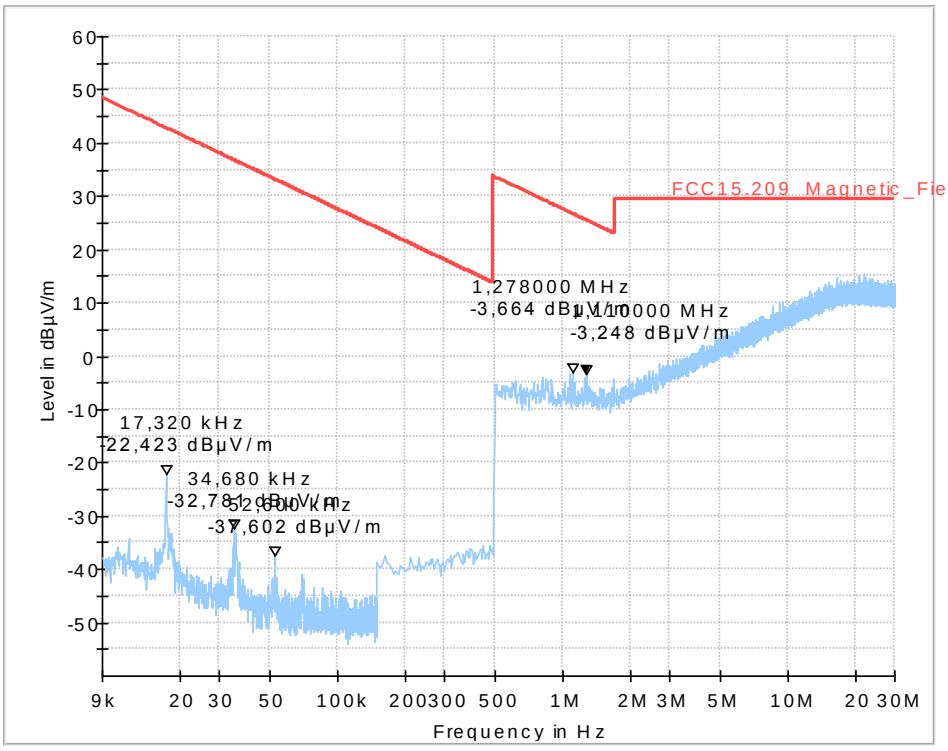


Diagram No. 2.02_BT_LE_mid

Date: 29.06.2017 Page 1 of 1

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	KIv
Operating conditions:	Humidity: 45%rH; Temperature: 20°C
Power during tests:	full loaded batteries
Comment 1:	channel 20 | 2442MHz

EUT Information

Manufacturer:	Husqvarna AB
Model:	FMS
Type:	-
---	---
EUT:	-
HW version:	P1.2 B
SW version:	0.2.22.60
SVN:	-
Config:	-
Serial number:	102F005D
Connected Interfaces:	-
Power Supply:	Batteries CR2450
Comments:	-

Full Spectrum

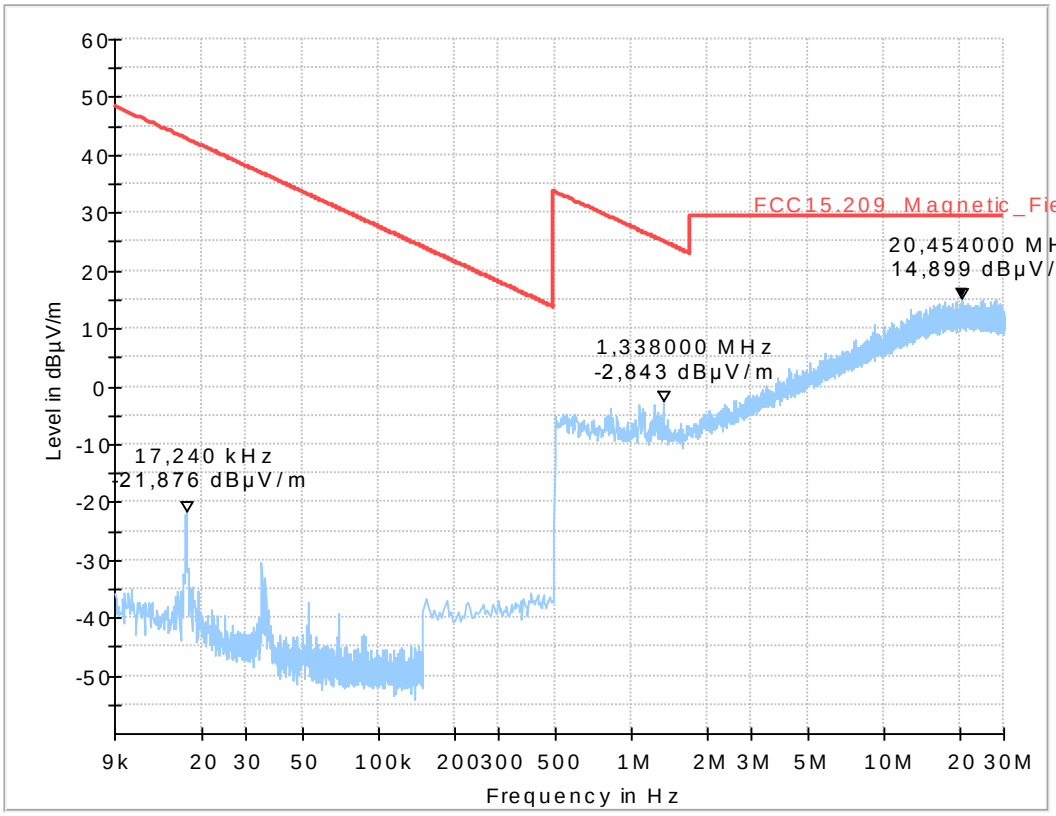


Diagram No. 2.03_BT_LE_high

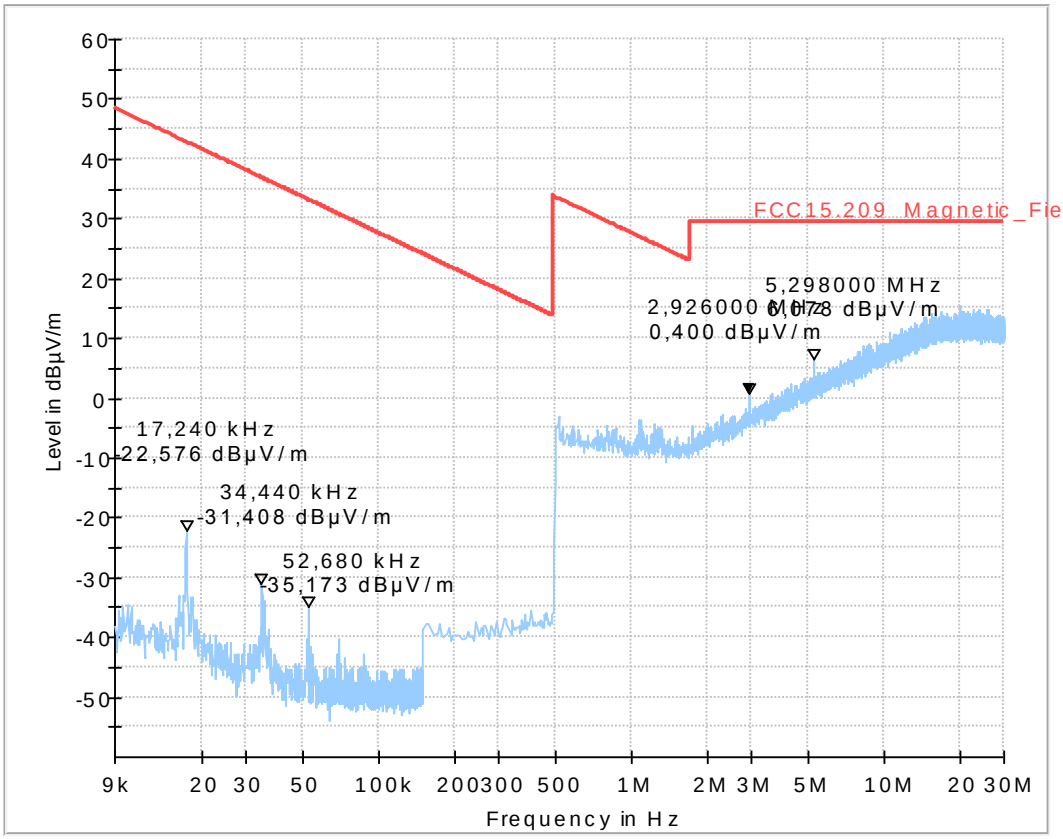
Date: 29.06.2017 Page 1 of 5

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	KIv
Operating conditions:	channel 39 | 2480MHz
Power during tests:	full loaded batteries

EUT Information

Manufacturer:	Husqvarna AB
Model:	FMS
Type:	-
---	---
EUT:	-
HW version:	P1.2 B
SW version:	0.2.22.60
SVN:	-
Config:	-
Serial number:	102F005D
Connected Interfaces:	-
Power Supply:	Batteries CR2450
Comments:	-

Full Spectrum



2.1.1. Field strength measurements 30MHz <f <1GHz

Diagram No. 3.01_BT_LE_low

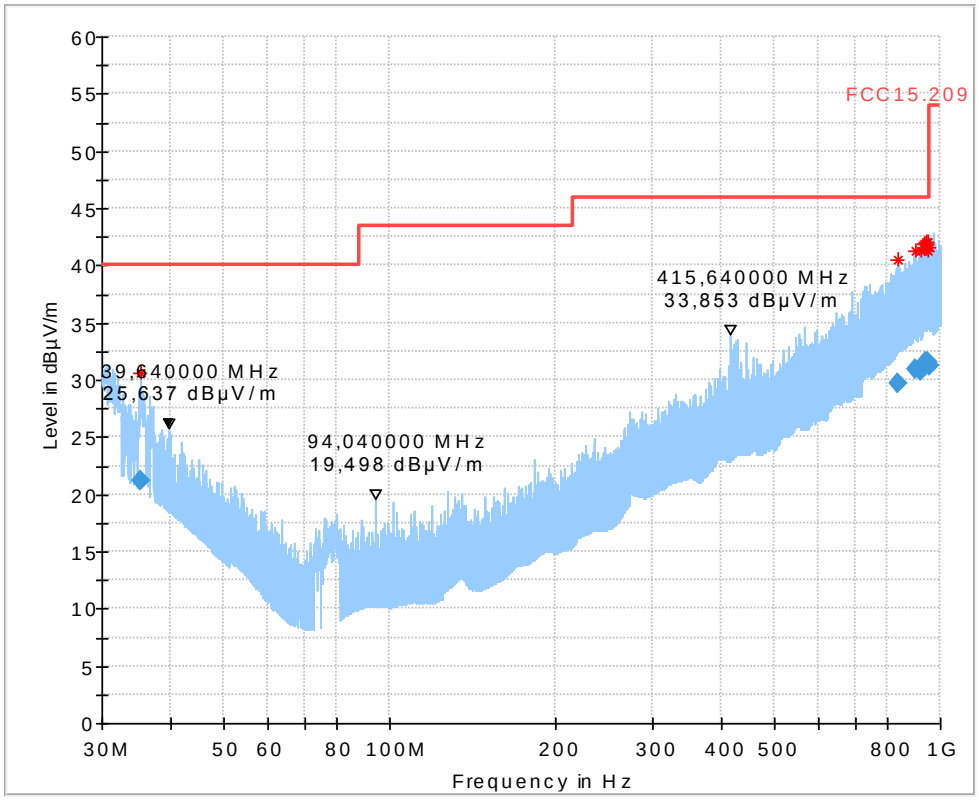
29.06.2017 Page 1 of 2

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.209; RSS-Gen: Issue 3
Operator:	KIv
Operating conditions:	channel 0 | 2402MHz
Power during tests:	full loaded batteries

EUT Information

Manufacturer:	Husqvarna AB
Model:	FMS
Type:	-
---	---
EUT:	-
HW version:	P1.2 B
SW version:	0.2.22.60
SVN:	-
Config:	-
Serial number:	102F005D
Connected Interfaces:	-
Power Supply:	Batteries CR2450
Comments:	-

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.196000	21.18	40.00	18.82	1000.0	120.000	129.0	V	105.0	19.1
838.152000	29.68	46.00	16.32	1000.0	120.000	320.0	H	277.0	25.9
898.832000	30.91	46.00	15.09	1000.0	120.000	181.0	H	350.0	27.0
925.212000	30.76	46.00	15.24	1000.0	120.000	329.0	V	164.0	26.5
936.728000	31.32	46.00	14.68	1000.0	120.000	109.0	V	175.0	26.9
937.096000	31.28	46.00	14.72	1000.0	120.000	253.0	V	155.0	26.9
940.260000	31.59	46.00	14.41	1000.0	120.000	331.0	H	275.0	27.1
944.628000	31.54	46.00	14.46	1000.0	120.000	240.0	V	161.0	27.1
945.964000	31.40	46.00	14.60	1000.0	120.000	150.0	H	349.0	27.1
946.784000	31.52	46.00	14.48	1000.0	120.000	229.0	H	238.0	27.1
947.648000	31.45	46.00	14.55	1000.0	120.000	144.0	H	208.0	27.2
957.464000	31.29	46.00	14.71	1000.0	120.000	139.0	V	196.0	27.1

Diagram No. 3.02_BT_LE_mid

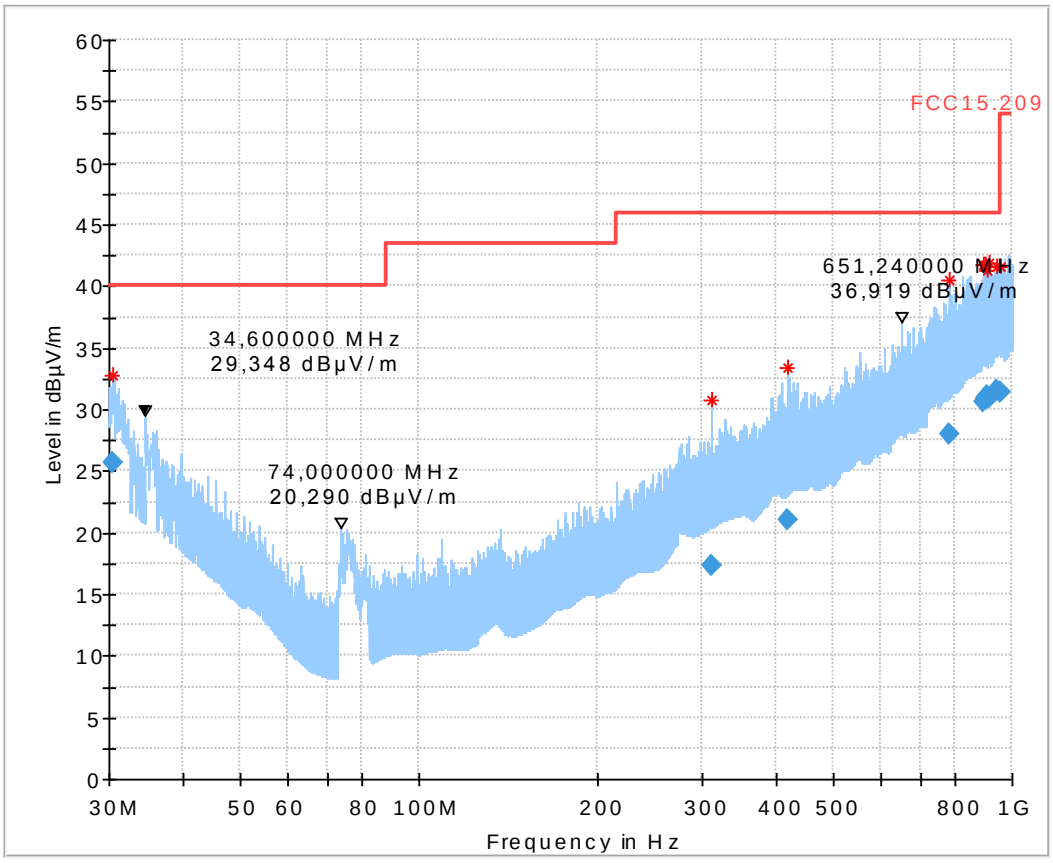
29.06.2017 Page 1 of 2

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.209; RSS-Gen: Issue 3
Operator:	KIv
Operating conditions:	channel 20 | 2442MHz
Power during tests:	full loaded batteries

EUT Information

Manufacturer:	Husqvarna AB
Model:	FMS
Type:	-
---	---
EUT:	-
HW version:	P1.2 B
SW version:	0.2.22.60
SVN:	-
Config:	-
Serial number:	102F005D
Connected Interfaces:	-
Power Supply:	Batteries CR2450
Comments:	-

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.552000	25.75	40.00	14.25	1000.0	120.000	105.0	V	335.0	21.3
310.940000	17.26	46.00	28.74	1000.0	120.000	291.0	H	90.0	15.6
419.112000	21.06	46.00	24.94	1000.0	120.000	343.0	V	21.0	18.8
781.732000	27.98	46.00	18.02	1000.0	120.000	355.0	H	278.0	25.0
892.256000	30.60	46.00	15.40	1000.0	120.000	183.0	V	277.0	26.7
901.944000	30.86	46.00	15.14	1000.0	120.000	272.0	H	345.0	26.8
908.896000	31.06	46.00	14.94	1000.0	120.000	304.0	V	3.0	26.9
913.704000	30.90	46.00	15.10	1000.0	120.000	255.0	H	36.0	26.8
945.556000	31.52	46.00	14.48	1000.0	120.000	274.0	V	200.0	27.1
954.532000	31.40	46.00	14.60	1000.0	120.000	128.0	H	222.0	27.2

Diagram No. 3.03_BT_LE_high

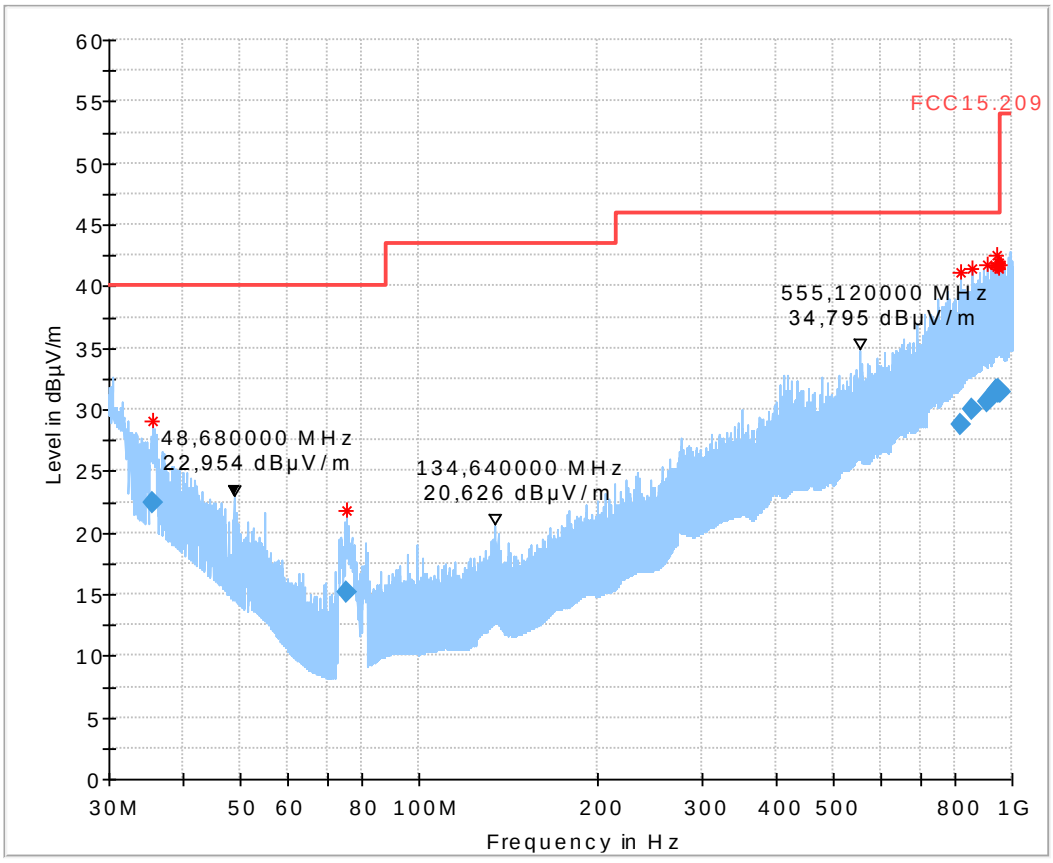
29.06.2017 Page 1 of 2

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.209; RSS-Gen: Issue 3
Operator:	KIv
Operating conditions:	channel 39 | 2480MHz
Power during tests:	full loaded batteries

EUT Information

Manufacturer:	Husqvarna AB
Model:	FMS
Type:	-
---	---
EUT:	-
HW version:	P1.2 B
SW version:	0.2.22.60
SVN:	-
Config:	-
Serial number:	102F005D
Connected Interfaces:	-
Power Supply:	Batteries CR2450
Comments:	-

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.652000	22.46	40.00	17.54	1000.0	120.000	109.0	V	144.0	19.0
75.492000	15.11	40.00	24.89	1000.0	120.000	118.0	V	355.0	6.7
816.768000	28.72	46.00	17.28	1000.0	120.000	132.0	H	152.0	25.3
853.556000	29.97	46.00	16.03	1000.0	120.000	249.0	V	135.0	26.0
905.756000	30.65	46.00	15.35	1000.0	120.000	135.0	V	108.0	26.6
940.620000	31.53	46.00	14.47	1000.0	120.000	335.0	V	270.0	27.1
942.784000	31.51	46.00	14.49	1000.0	120.000	279.0	V	288.0	27.1
947.252000	31.52	46.00	14.48	1000.0	120.000	245.0	H	223.0	27.2
948.704000	31.47	46.00	14.53	1000.0	120.000	368.0	H	19.0	27.2
948.740000	31.51	46.00	14.49	1000.0	120.000	317.0	H	288.0	27.2
951.724000	31.50	46.00	14.50	1000.0	120.000	233.0	H	297.0	27.2
952.980000	31.46	46.00	14.54	1000.0	120.000	360.0	V	311.0	27.2
955.676000	31.41	46.00	14.59	1000.0	120.000	183.0	H	236.0	27.2

2.2. Field strength measurements f < 18GHz

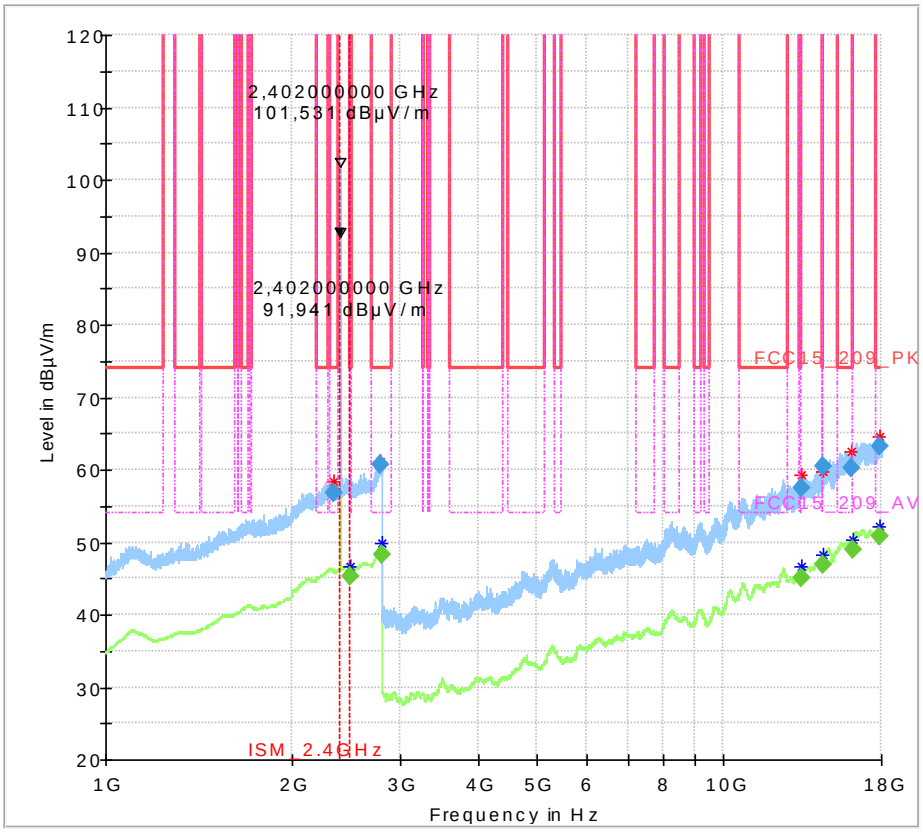
Diagram No.: 4.01a_BT_LE_low

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	KIv
Comment:	channel 0 | 2402 MHz
Comment2:	

EUT Information

Manufacturer:	Husqvarna AB
Model:	FMS
Type:	-
---	---
EUT:	-
HW version:	P1.2 B
SW version:	0.2.22.60
SVN:	-
Config:	-
Serial number:	102F005D
Connected Interfaces:	-
Power Supply:	Batteries CR2450
Comments:	-



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
2340.000000	56.68	---	74.00	17.32	1000.000	155.0	H	-44.0	0.0
2493.600000	---	45.23	54.00	8.77	1000.000	155.0	H	145.0	0.0
2783.200000	60.78	---	74.00	13.22	1000.000	155.0	H	246.0	0.0
2797.200000	---	48.27	54.00	5.73	1000.000	155.0	H	51.0	0.0
13351.200000	57.49	---	74.00	16.51	1000.000	155.0	H	351.0	0.0
13392.400000	---	45.13	54.00	8.87	1000.000	155.0	V	209.0	90.0
14478.000000	60.54	---	74.00	13.46	1000.000	155.0	H	271.0	90.0
14494.000000	---	46.92	54.00	7.08	1000.000	155.0	V	318.0	90.0
16118.000000	60.31	---	74.00	13.69	1000.000	155.0	H	284.0	0.0
16196.400000	---	48.96	54.00	5.04	1000.000	155.0	V	236.0	90.0
17902.800000	---	50.80	54.00	3.20	1000.000	155.0	V	300.0	90.0
17942.800000	63.22	---	74.00	10.78	1000.000	155.0	V	268.0	90.0

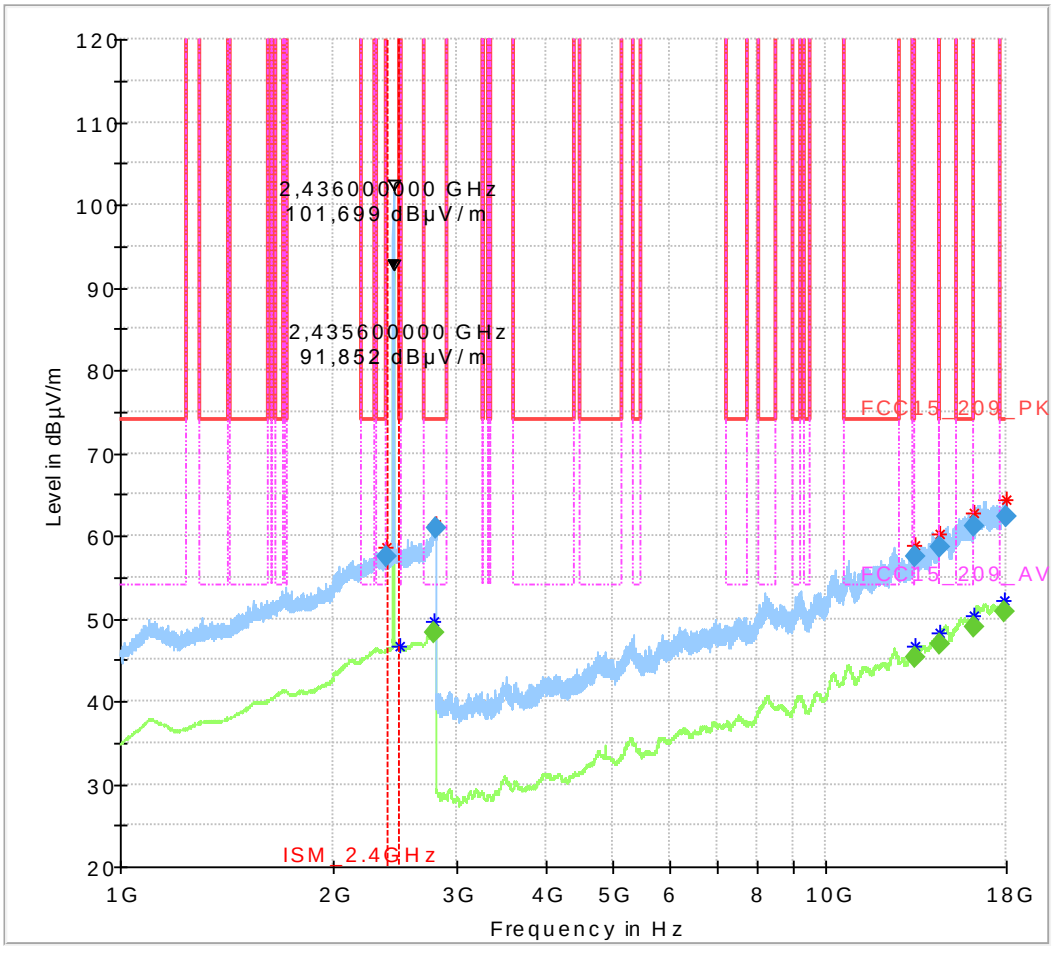
Diagram No.: 4.02a_BT_LE_mid

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	KIv
Comment:	Channel no.20 middle 2440 MHz
Comment2:	

EUT Information

Manufacturer:	Husqvarna AB
Model:	FMS
Type:	-
----------	----------
EUT:	-
HW version:	P1.2 B
SW version:	0.2.22.60
SVN:	-
Config:	-
Serial number:	102F005D
Connected Interfaces:	-
Power Supply:	Batteries CR2450
Comments:	-



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
2388.800000	57.55	---	74.00	16.45	1000.000	155.0	V	146.0	0.0
2785.600000	---	48.19	54.00	5.81	1000.000	155.0	V	320.0	0.0
2793.600000	60.82	---	74.00	13.18	1000.000	155.0	V	24.0	0.0
13376.800000	57.37	---	74.00	16.63	1000.000	155.0	H	292.0	90.0
13397.600000	---	45.19	54.00	8.81	1000.000	155.0	V	272.0	90.0
14498.400000	58.57	---	74.00	15.43	1000.000	155.0	V	82.0	90.0
14499.600000	---	46.98	54.00	7.02	1000.000	155.0	V	271.0	90.0
16197.200000	---	48.96	54.00	5.04	1000.000	155.0	V	1.0	90.0
16199.600000	61.25	---	74.00	12.75	1000.000	155.0	V	41.0	90.0
17918.000000	---	50.77	54.00	3.23	1000.000	155.0	V	93.0	90.0
17948.800000	62.34	---	74.00	11.66	1000.000	155.0	V	225.0	90.0

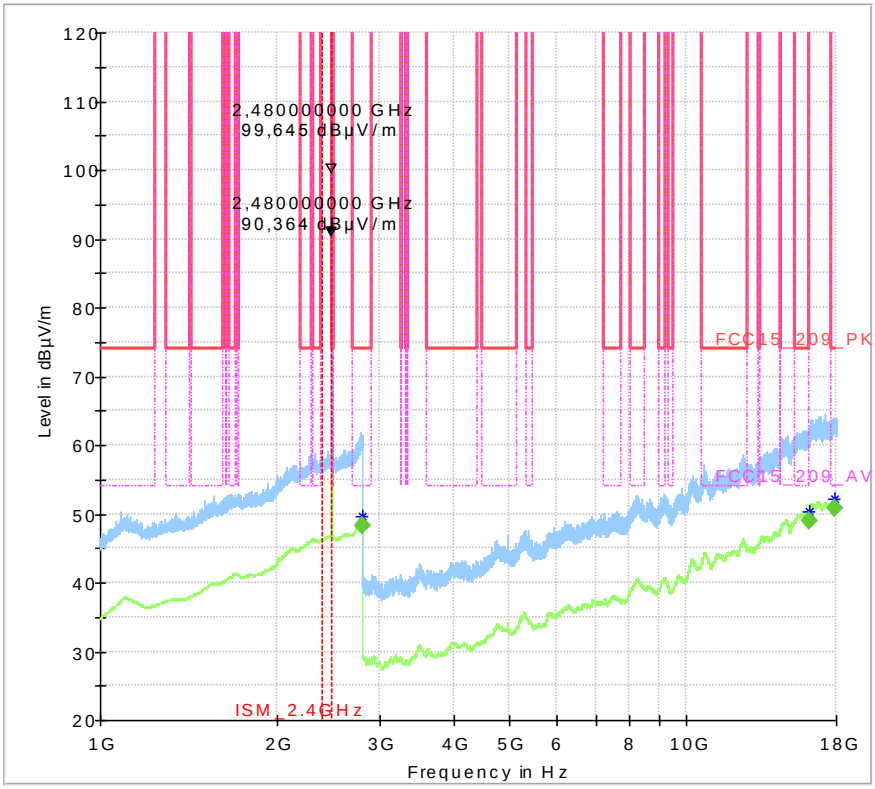
Diagram No.: 4.03a_BT_LE_high

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	SRa
Comment:	Channel no. 39 high 2480 MHz
Comment2:	

EUT Information

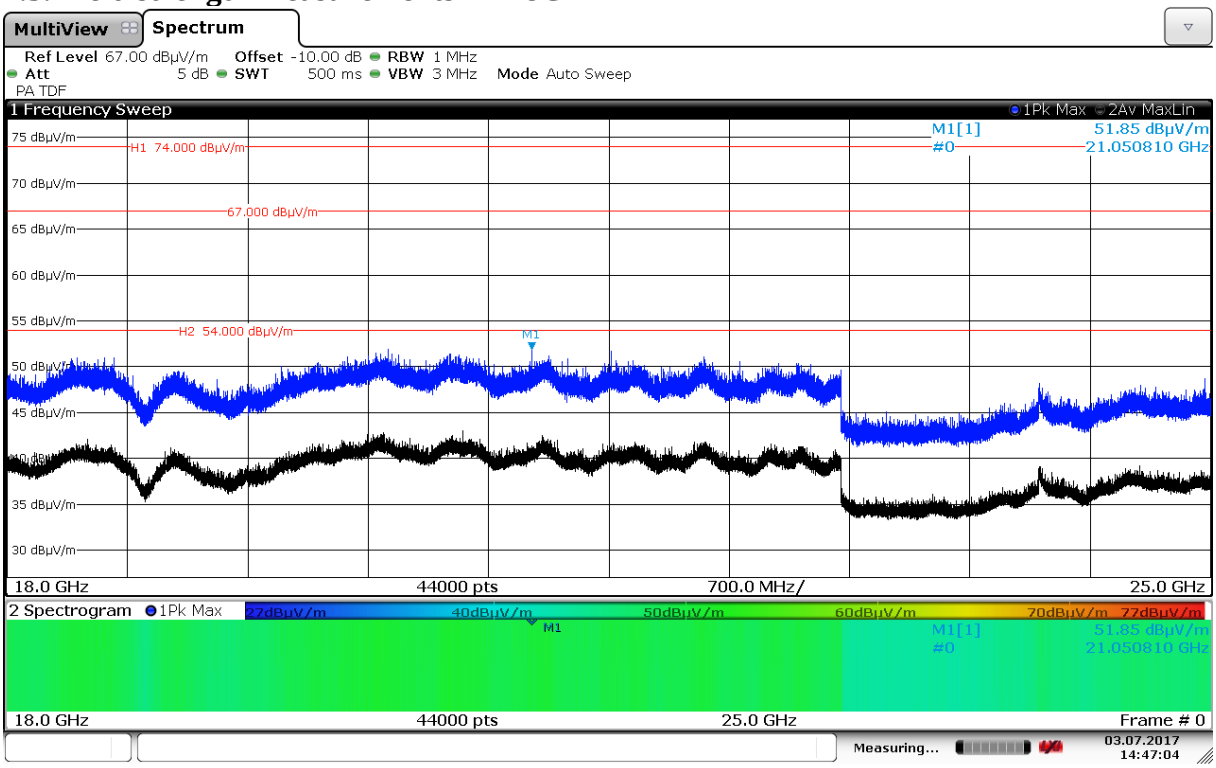
Manufacturer:	Husqvarna AB
Model:	FMS
Type:	-
---	---
EUT:	-
HW version:	P1.2 B
SW version:	0.2.22.60
SVN:	-
Config:	-
Serial number:	102F005D
Connected Interfaces:	-
Power Supply:	Batteries CR2450
Comments:	-



Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
2791.600000	48.27	54.00	5.73	100.0	1000.000	155.0	H	316.0
16198.800000	48.97	54.00	5.03	100.0	1000.000	155.0	H	37.0
17887.200000	50.74	54.00	3.26	100.0	1000.000	155.0	H	129.0

2.3. Field strength measurements f > 18GHz



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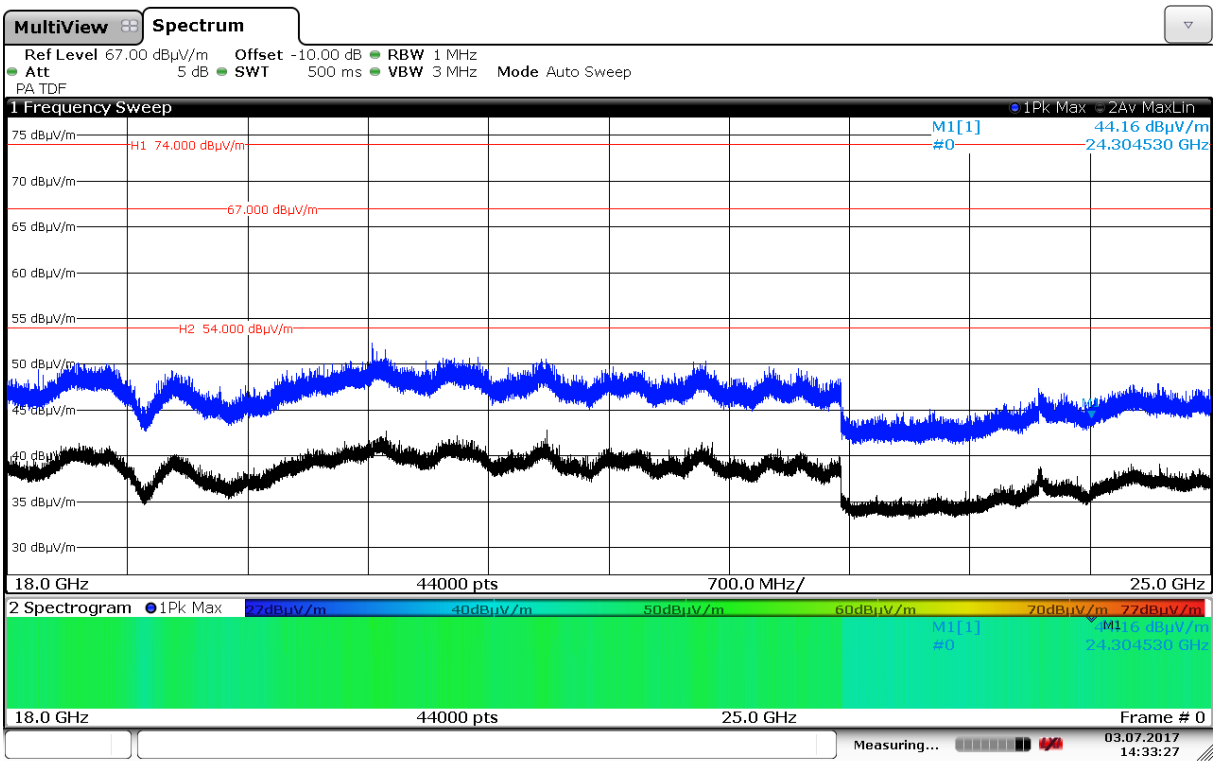
40.1b_BT_LE_Low



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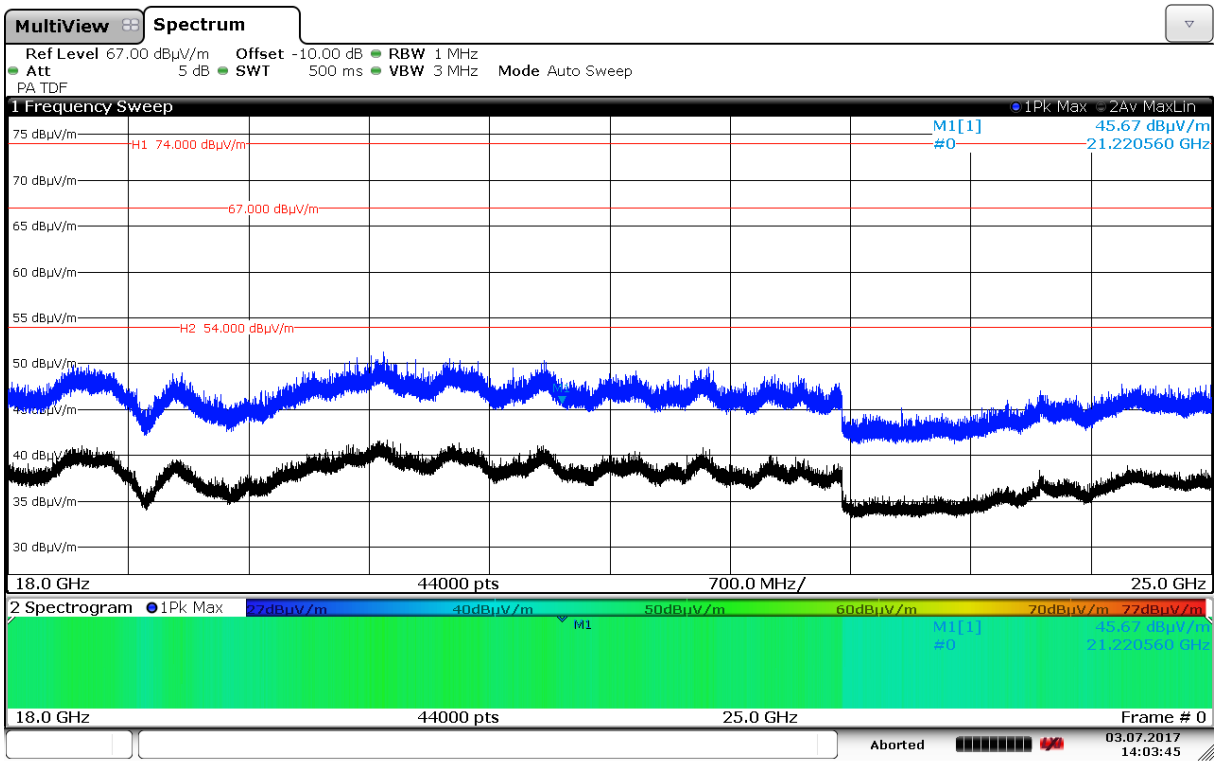
40.2b_BT_LE_mid



14:03:45 03.07.2017

40.3b_BT_LE_high

3. Radiated band-edge measurements accord. §15.209 & §15.205 (§15.247)

3.1. Channel 37 (left band edge)

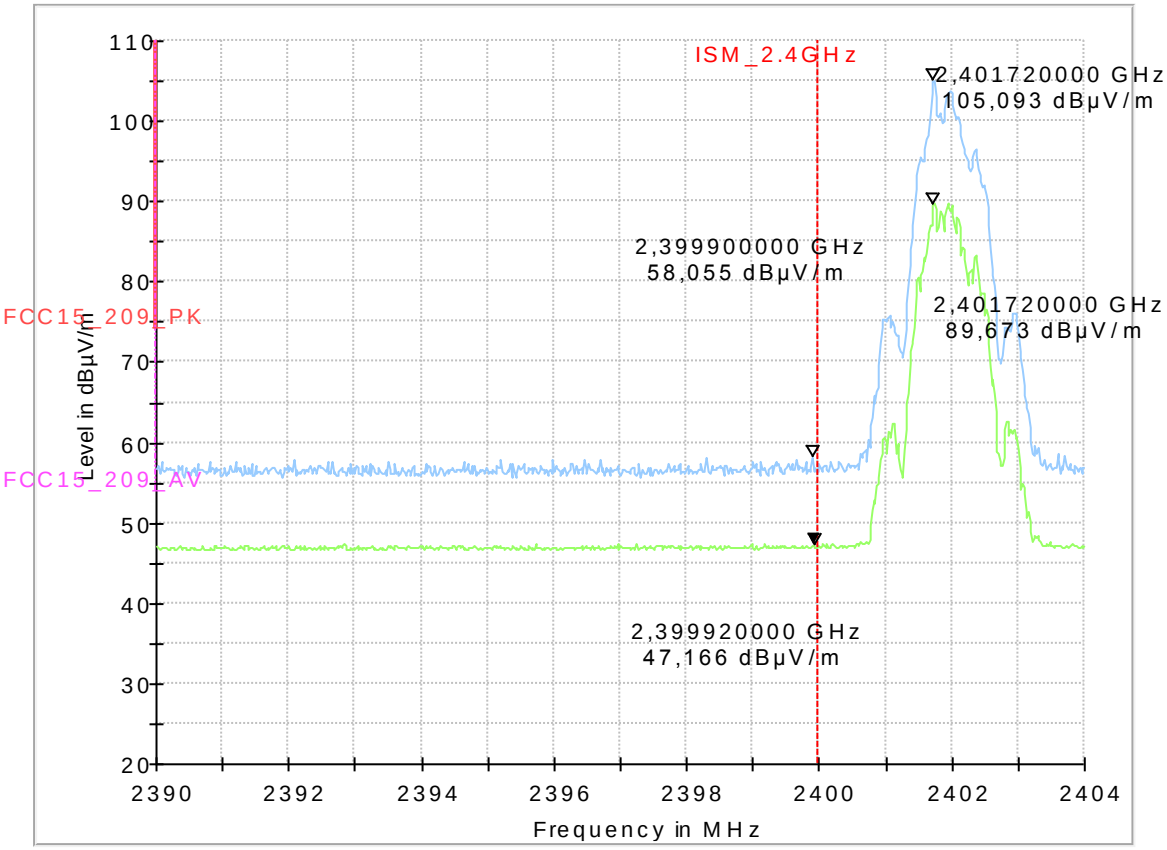
Diagram No.: 9.01b_BE_BT_LE_low

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	npe
Comment:	Channel no.0 2402 MHz
Comment2:	

EUT Information

Manufacturer:	Husqvarna AB
Model:	FMS
Type:	-
---	---
EUT:	-
HW version:	P1.2 B
SW version:	0.2.22.60
SVN:	-
Config:	-
Serial number:	102E0056
Connected Interfaces:	BLuetooth-
Power Supply:	Batteries CR2450
Comments:	-



3.2. Channel 39 (right band edge)

Diagram No.: 9.02_BE_BT_LE_high

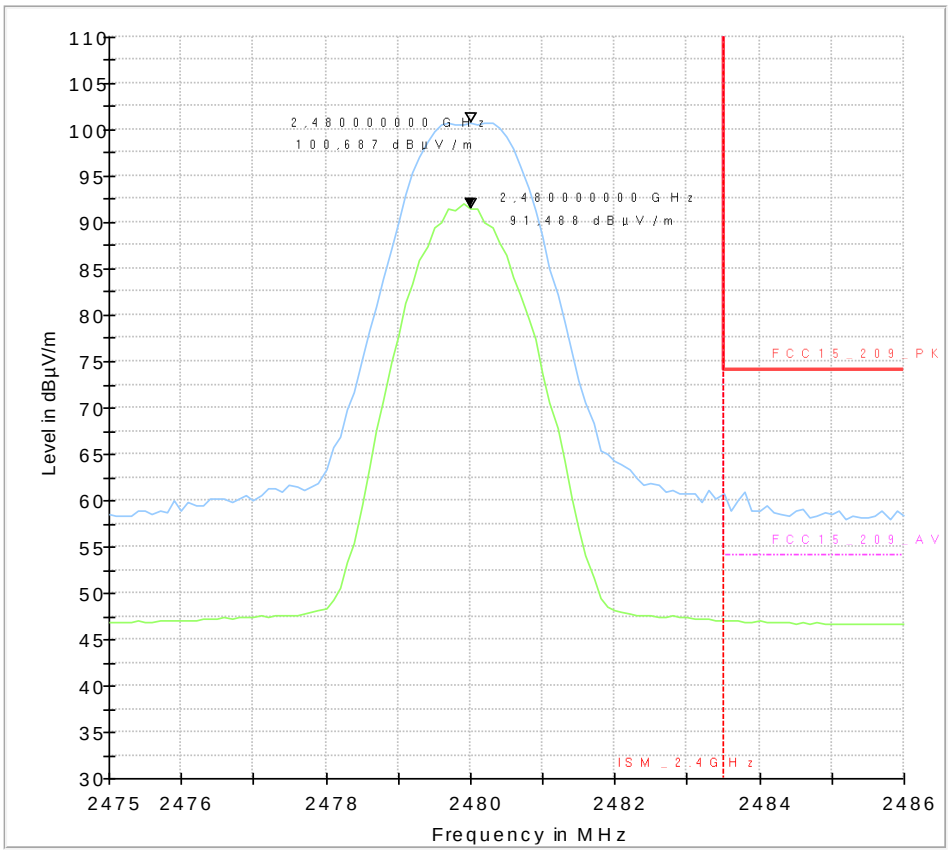
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	HEl
Comment:	Channel no. (39) /high 2480 MHz

EUT Information

Manufacturer:	Husqvarna AB
Model:	FMS
Type:	-
---	---
EUT:	-
HW version:	P1.2 B
SW version:	0.2.22.60
SVN:	-
Config:	-
Serial number:	102E0056
Connected Interfaces:	BLuetooth-
Power Supply:	Batteries CR2450
Comments:	-

Full Spectrum



4. Maximum Exposure limits according §1.1310/§2.1091 and RSS-102

Operation Mode	Frequency on channel (MHz)	Declared maximum conducted output power (dBm)	Antenna Gain Max. (dBi)	Max. positive tolerance according manfacturer (dB)	Declared maximum output power (Measured+ Tune-up) (dBm)	Duty cycle	Declared Maximum conducted output power (W)	Equivalent conducted output power (maximum conducted output power x duty cycle) (mW)
BT 2.4GHz	2402,0	8,00	-6,00	0,00	2,00	100%	0,0016	1,585
	2442,0	8,00	-6,00		2,00		0,0016	1,585
	2480,0	8,00	-6,00		2,00		0,0016	1,585

Maximum calculated MPE value:		
MPE-Limit:	1	[mW/cm^2]
Highest MPE value:	0,0005	[mW/cm^2]
Margin to limit	0,9995	[mW/cm^2]

Exemption Limits for Routine Evaluation acc. RSS-102 — RF Exposure Evaluation for 2.4GHz			
Frequency (MHz)	EIRP (W)	Limit (W) 1.31 x 10^-2 x *f*^0.6834	Exemption fullfiled
2402,0	0,0016	2,6764	yes
2442,0	0,0016	2,7068	yes
2480,0	0,0016	2,7355	yes