

Annex 1: Measurement diagrams to Test Report 20-1-0183501T01a-A1

Number of pages:	48	Date of Report:	2021-Mar-24
Testing company:	CETECOM GmbH Im Teelbruch 116 45219 Essen Germany Tel. + 49 (0) 20 54 / 95 19-0 Fax: + 49 (0) 20 54 / 95 19-150	Applicant:	Husqvarna AB
Product: Model:	Application board with Bluetooth functionality Application Board Type 3		
FCC ID:	ZASHQ-BLE-1G	IC:	23307-HQBLE1G
Testing has been carried out in accordance with:	Title 47 CFR, Chapter I FCC Regulations, Subchapter A Subpart C: §15.247 (DTS) , RSS-247, Issue 2 (DTS) RSS-Gen., Issue 5 Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit"		

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1 Measurement diagrams

1.1 Radiated measurements

2.01a_BT_LE_low

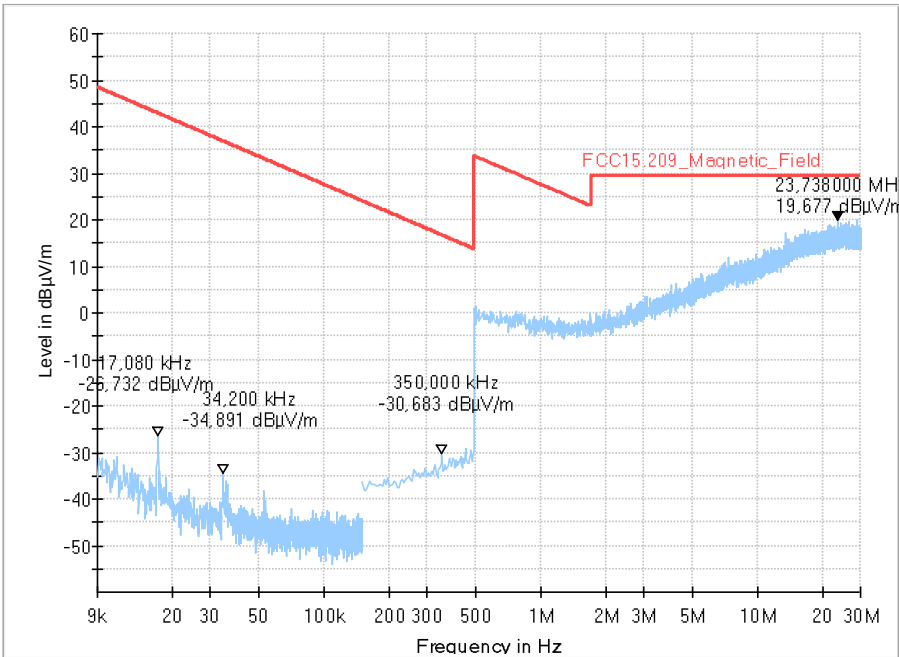
Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
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 Standard:	FCC 15.205 § 15.209; RSS-Gen, Issue 5
Operator:	HEL
Operating Mode:	BLE_CH:Low_Postion :Standing
Power during tests:	18 V DC
Comment 1:	Channel low
Comment 2:	
Environmental Conditions::	Humidity : 46%rH; Temperature: 16°C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	20-1-01835S03_C01
Manufacturer:	Husqvarna AB

Full Spectrum



2.01b_BT_LE_low

Common Information

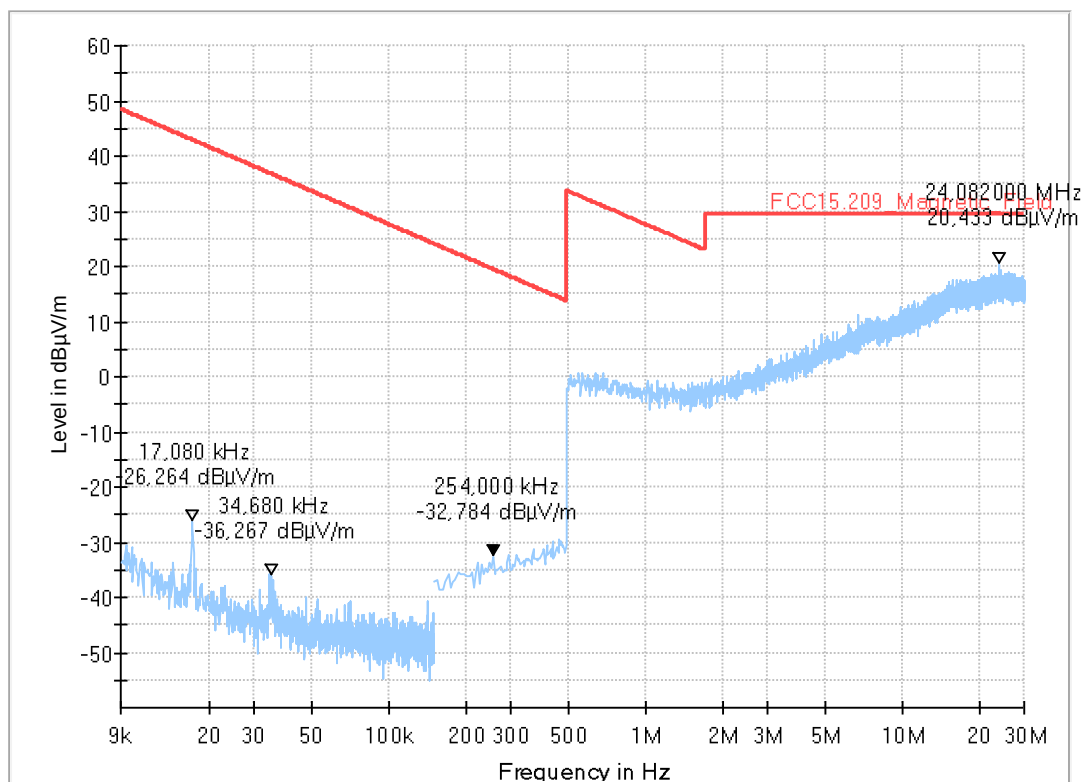
Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see 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 Standard:	FCC 15.205 § 15.209; RSS-Gen, Issue 5

Operator:	HEL
Operating Mode:	BLE_CH:Low_Postion :Laying
Power during tests:	18 V DC
Comment 1:	
Comment 2:	
Environmental Conditions::	Humidity : 45%rH; Temperature: 16°C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	20-1-01835S03_C01
Manufacturer:	Husqvarna AB

Full Spectrum



2.02a_BT_LE_mid

Common Information

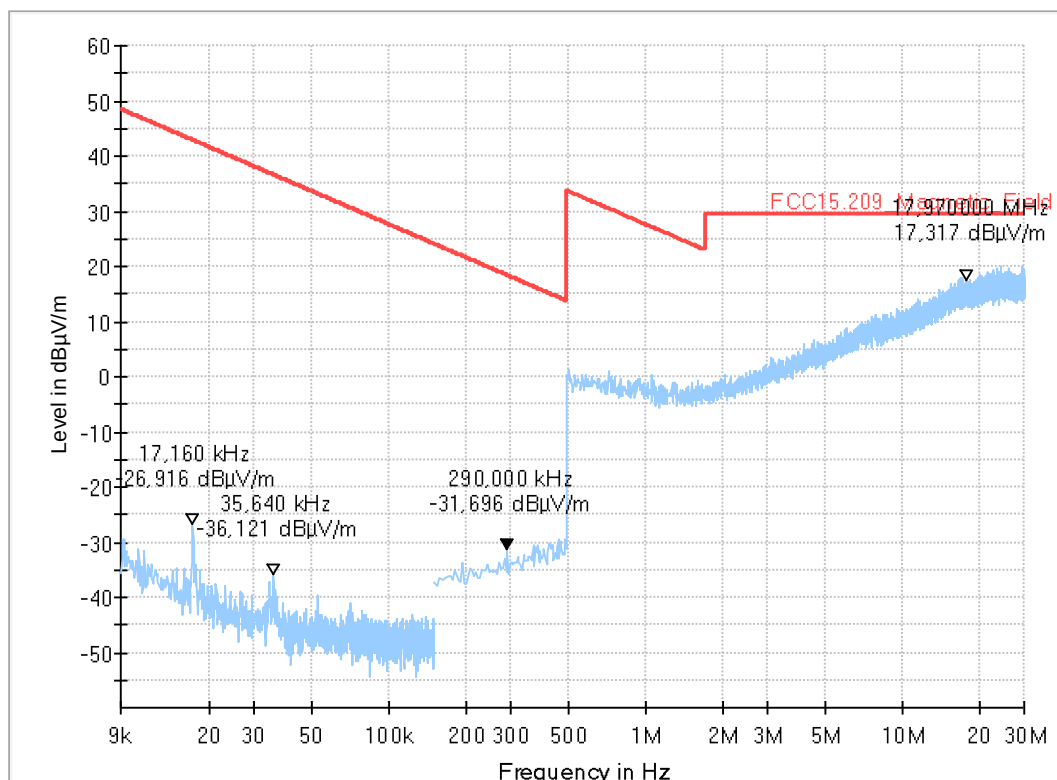
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Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used Filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen, Issue 5

Operator:	HEL
Operating Mode:	BLE_CH Mid_Position :Standing
Power during tests:	18 V DC
Comment 1:	
Comment 2:	
Environmental Conditions::	Humidity : 45%rH; Temperature: 16°C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	20-1-01835S03_C01
Manufacturer:	Husqvarna AB

Full Spectrum



2.02b_BT_LE_mid

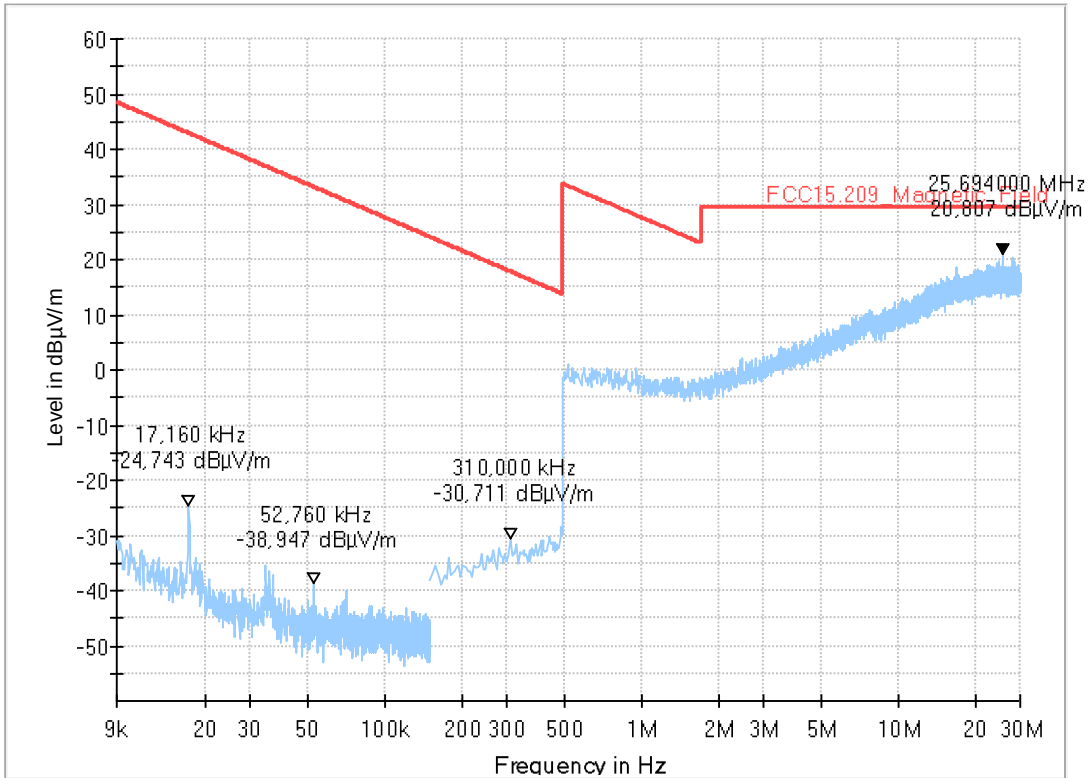
Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
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 Standard:	FCC 15.205 § 15.209; RSS-Gen, Issue 5
Operator:	HEL
Operating Mode:	BLE_CH Mid_Position :Laying
Power during tests:	18 V DC
Comment 1:	
Comment 2:	
Environmental Conditions::	Humidity : 46%rH; Temperature: 16°C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	20-1-01835S03_C01
Manufacturer:	Husqvarna AB

Full Spectrum



2.03a_BT_LE_high

Common Information

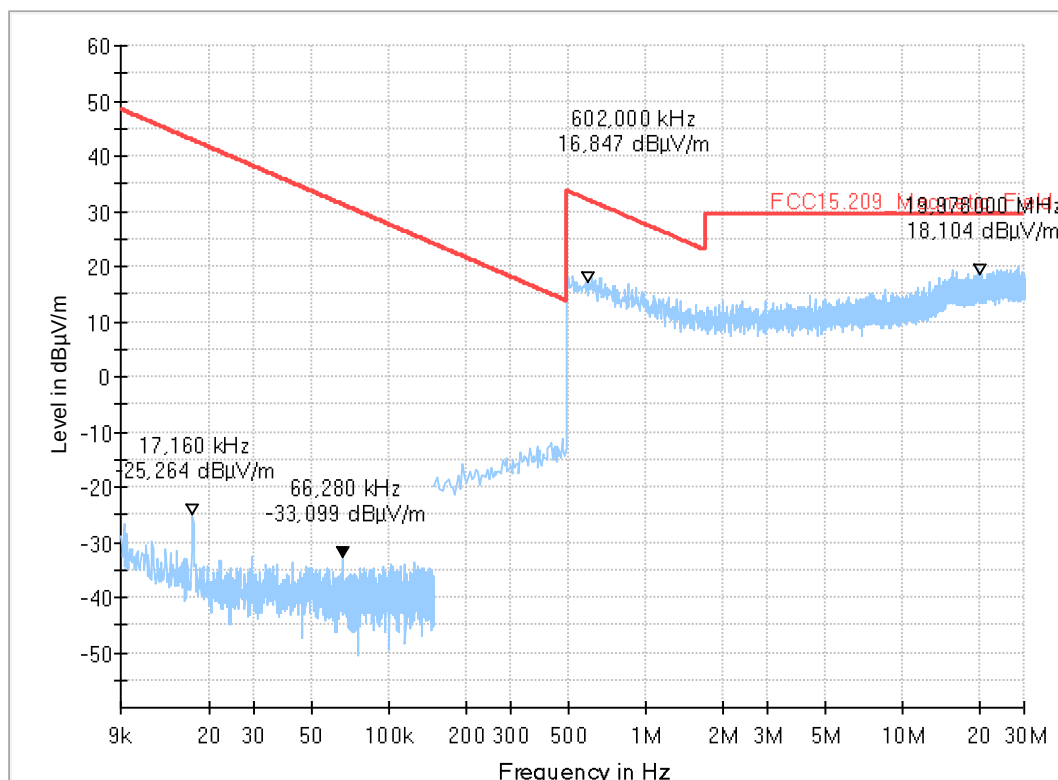
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Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used Filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen, Issue 5

Operator:	HEL
Operating Mode:	BLE_CH High_Position :Standing
Power during tests:	18 V DC
Comment 1:	
Comment 2:	
Environmental Conditions::	Humidity : 45%rH; Temperature: 17°C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	20-1-01835S03_C01
Manufacturer:	Husqvarna AB

Full Spectrum



2.03b_BT_LE_high

Common Information

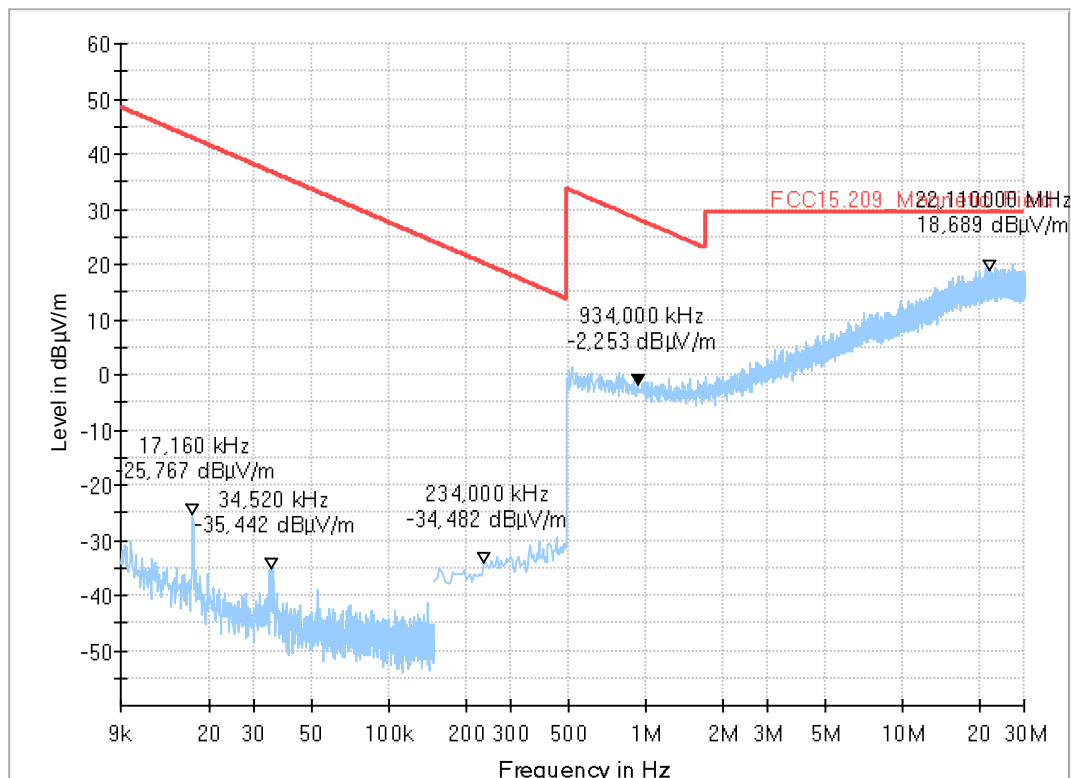
Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see 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 Standard:	FCC 15.205 § 15.209; RSS-Gen, Issue 5

Operator:	HEL
Operating Mode:	BLE_CH High_Position :Laying
Power during tests:	18 V DC
Environmental Conditions:	Humidity : 45%rH; Temperature: 16°C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	20-1-01835S03_C01
Manufacturer:	Husqvarna AB

Full Spectrum



3.01a_BT_LE_low

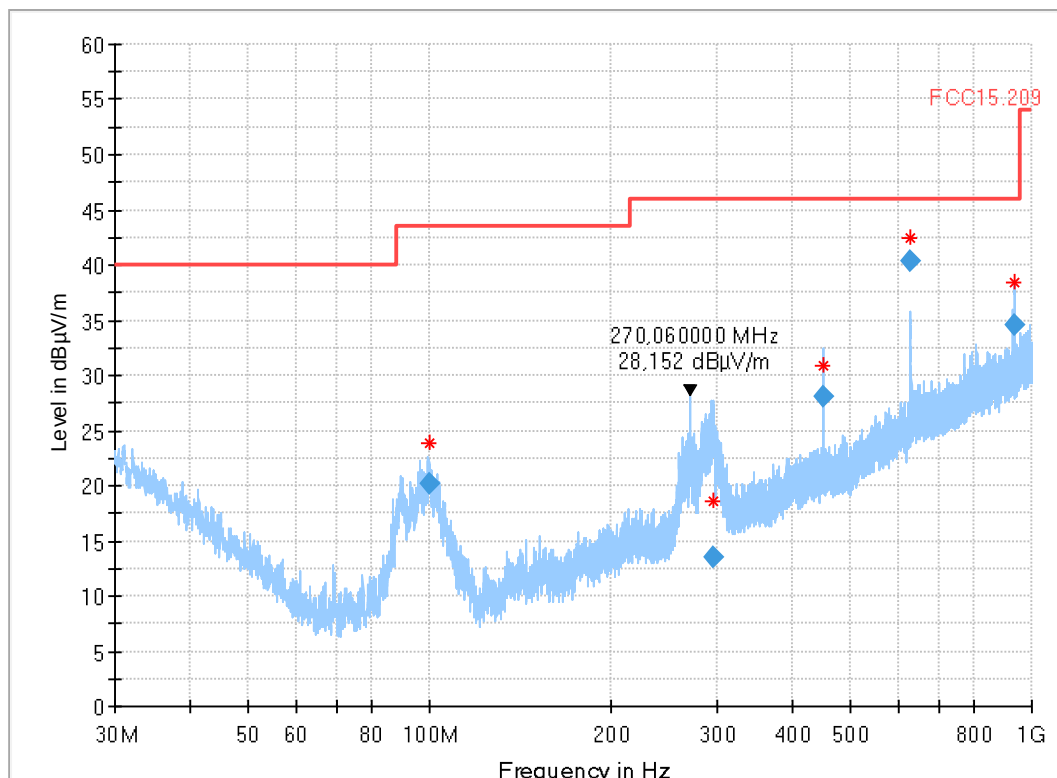
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 RSS Gen Issue 5 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Comment:	18 V DC
Operating Mode:	BLE_CH:Low_Positon : Standing
Environmental Conditions::	Humidity : 45%rH; Temperature: 17°C
Operator:	HEL
Verdict:	Passed

EUT Information

PMT number:	20-1-01835S07_C01
Manufacturer:	Husqvarna AB

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB/m)
99.580000	20.14	43.50	23.36	1000.0	120.000	121.0	V	209.0	8.1
295.136000	13.57	46.00	32.43	1000.0	120.000	307.0	H	190.0	14.9
450.078000	28.12	46.00	17.88	1000.0	120.000	109.0	V	0.0	19.3
630.132000	40.35	46.00	5.65	1000.0	120.000	186.0	V	0.0	22.6
933.472000	34.53	46.00	11.47	1000.0	120.000	321.0	H	0.0	26.9

Remark 933.472 MHz is a known external Interferer.

3.01b_BT_LE_low

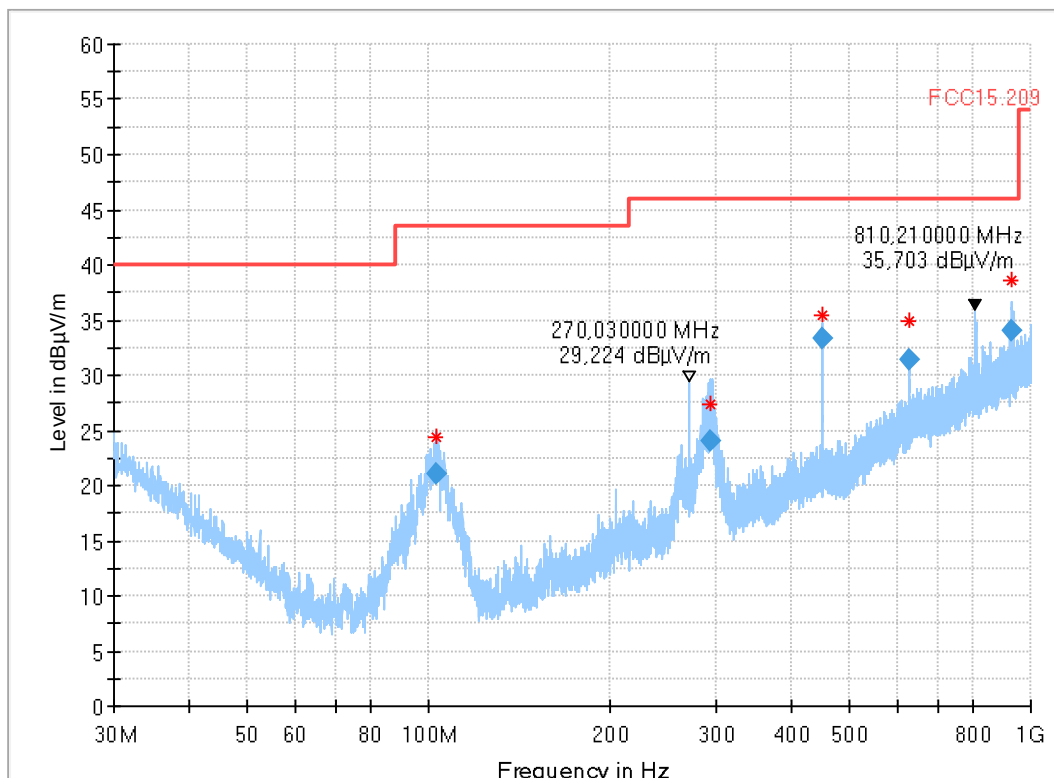
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: CETECOM GmbH Essen
 Test Standard: FCC 15.205&15.209 RSS Gen Issue 5 Intentional Radiator
 Antenna polarisation: horizontal/vertical
 Comment: 18 V DC
 Operating Mode: BLE_CH:Low_Position : Laying
 Environmental Conditions: Humidity : 45%rH; Temperature: 18°C
 Operator: HEL
 Verdict: Passed

EUT Information

PMT number: 20-1-01835S07_C01
 Manufacturer: Husqvarna AB

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height	Pol	Azimuth	Corr. (dB/m)
103.218000	20.98	43.50	22.52	1000.0	120.000	112.0	V	215.0	8.1
292.810000	24.02	46.00	21.98	1000.0	120.000	106.0	H	202.0	14.8
450.056000	33.40	46.00	12.60	1000.0	120.000	111.0	V	174.0	19.3
630.168000	31.39	46.00	14.61	1000.0	120.000	161.0	V	185.0	22.6
928.398000	34.06	46.00	11.94	1000.0	120.000	170.0	V	315.0	27.0

Remark 928.398 MHz is a known external Interferer.

3.02a_BT_LE_mid

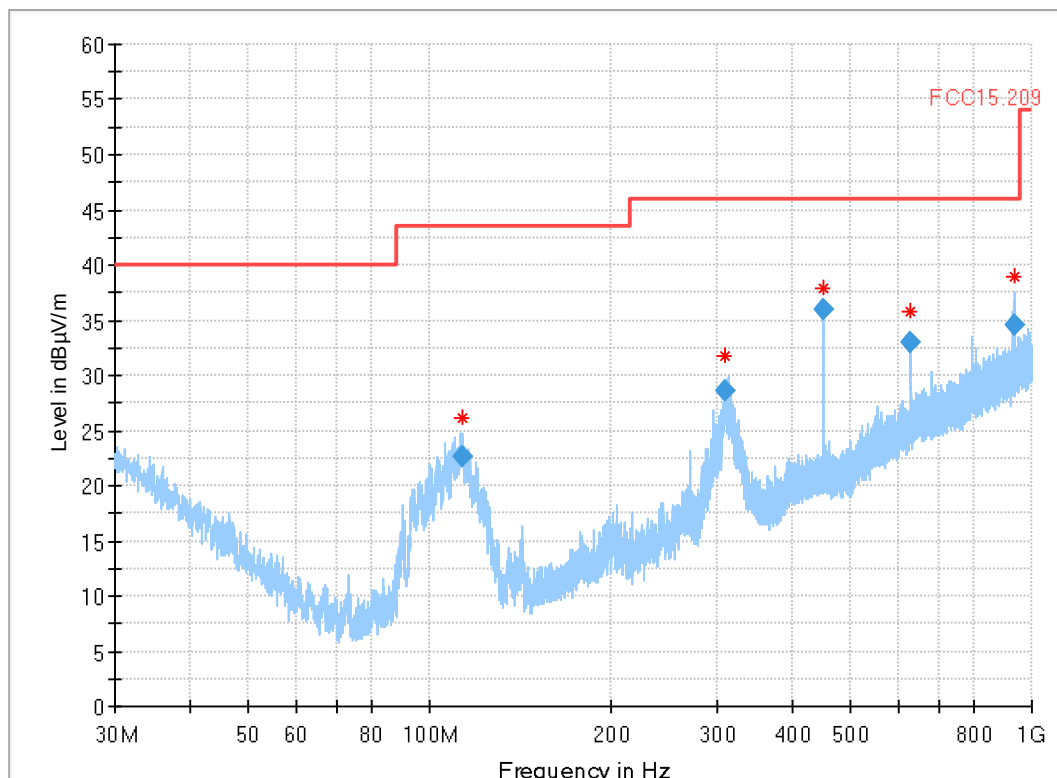
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 RSS Gen Issue 5 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Comment:	18 V DC
Operating Mode:	BLE_CH:Mid_Position : Standing
Environmental Conditions::	Humidity : 45%rH; Temperature: 17°C
Operator:	HEL
Verdict:	Passed

EUT Information

PMT number:	20-1-01835S07_C01
Manufacturer:	Husqvarna AB

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB/m)
113.406000	22.58	43.50	20.93	1000.0	120.000	109.0	V	243.0	8.1
309.228000	28.58	46.00	17.42	1000.0	120.000	119.0	V	289.0	15.6
450.050000	35.90	46.00	10.10	1000.0	120.000	111.0	V	240.0	19.3
630.084000	33.06	46.00	12.94	1000.0	120.000	176.0	V	28.0	22.6
933.330000	34.58	46.00	11.42	1000.0	120.000	121.0	V	233.0	26.9

Remark 933.330 MHz is a known external Interferer.

3.02b_BT_LE_mid

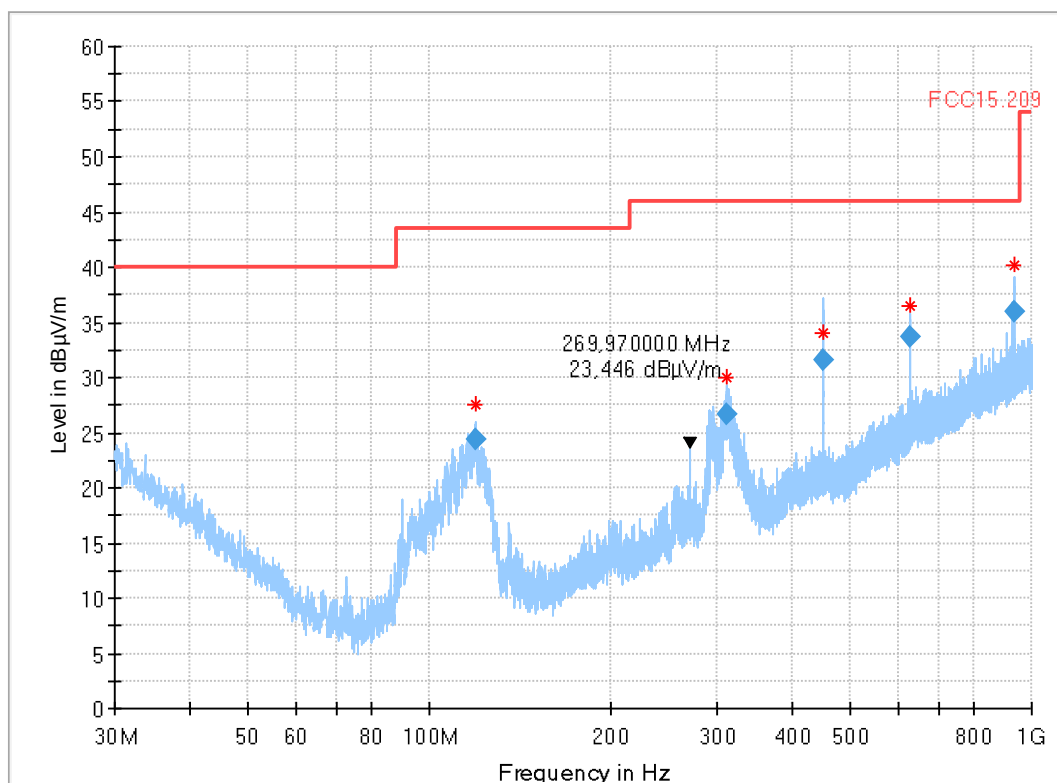
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 RSS Gen Issue 5 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Comment:	18 V DC
Operating Mode:	BLE_CH:Mid_Posion : Laying
Environmental Conditions::	Humidity : 45%rH; Temperature: 17°C
Operator:	HEL
Verdict:	Passed

EUT Information

PMT number:	20-1-01835S07_C01
Manufacturer:	Husqvarna AB

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height (dBm)	Pol	Azimuth (°)	Corr. (dB/m)
119.124000	24.35	43.50	19.15	1000.0	120.000	113.0	V	260.0	7.9
311.796000	26.72	46.00	19.28	1000.0	120.000	134.0	V	244.0	15.6
450.122000	31.52	46.00	14.48	1000.0	120.000	190.0	H	122.0	19.3
630.142000	33.71	46.00	12.29	1000.0	120.000	197.0	V	19.0	22.6
933.356000	35.98	46.00	10.02	1000.0	120.000	360.0	V	107.0	26.9

Remark 933.356MHz is a known external Interferer.

3.03a_BT_LE_High

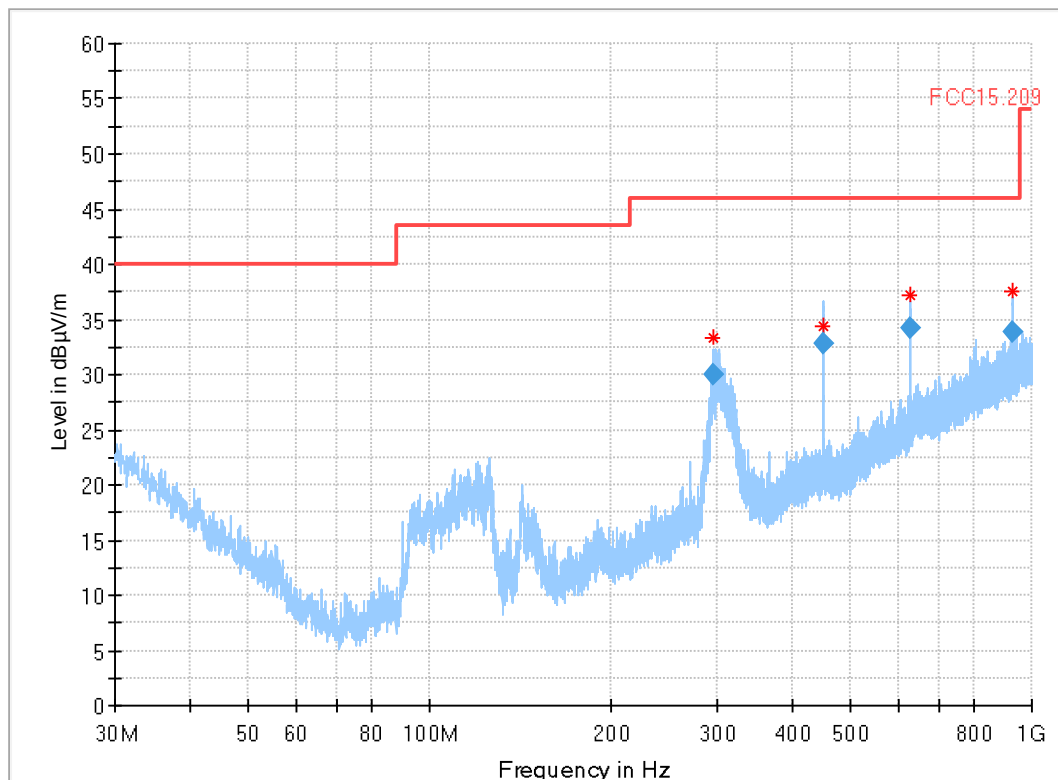
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 RSS Gen Issue 5 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Comment:	18 V DC
Operating Mode:	BLE_CH:High_Position : laying
Environmental Conditions::	Humidity : 45%rH; Temperature: 18°C
Operator:	HEL
Verdict:	Passed

EUT Information

PMT number:	20-1-01835S07_C01
Manufacturer:	Husqvarna AB

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/m)
296.430000	29.95	46.00	16.05	1000.0	120.000	105.0	V	262.0	14.9
450.024000	32.78	46.00	13.22	1000.0	120.000	100.0	H	275.0	19.3
630.066000	34.22	46.00	11.78	1000.0	120.000	189.0	V	24.0	22.6
928.490000	33.88	46.00	12.12	1000.0	120.000	337.0	H	0.0	27.0

Remark 928.490 MHz is a known external Interferer.

3.03b_BT_LE_High

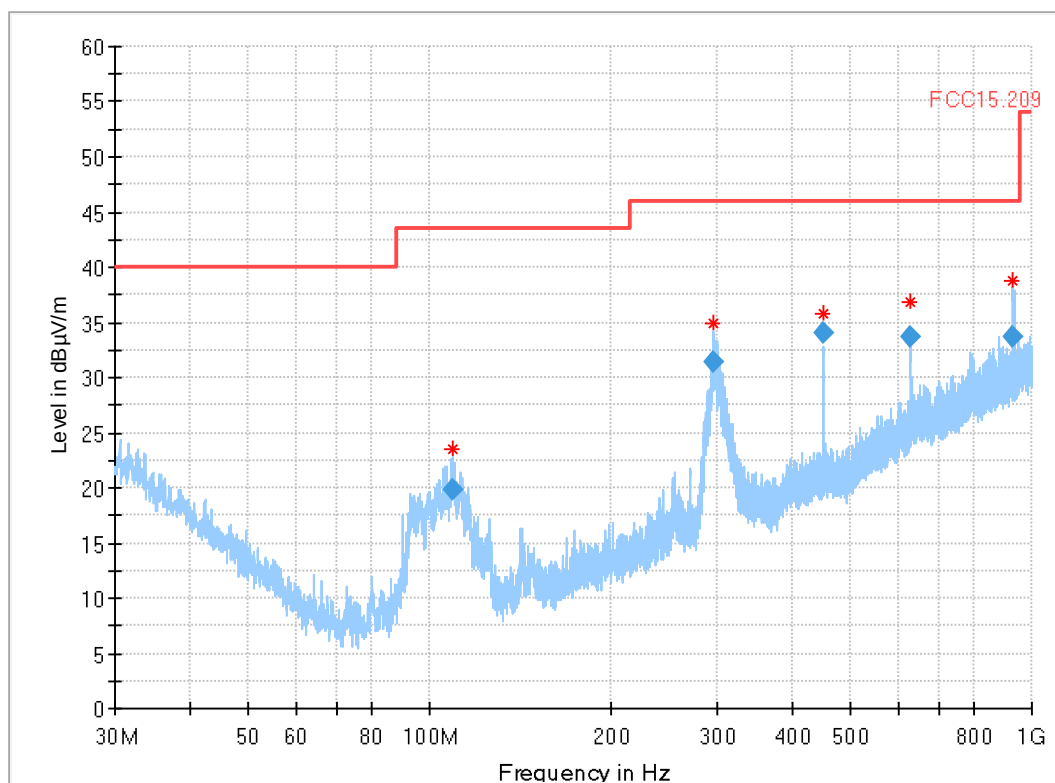
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 RSS Gen Issue 5 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Comment:	18 V DC
Operating Mode:	BLE_CH:High_Position : Standing
Environmental Conditions:	Humidity : 45%rH; Temperature: 17°C
Operator:	HEL
Verdict:	Passed

EUT Information

PMT number:	20-1-01835S07_C01
Manufacturer:	Husqvarna AB

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/m)
108.788000	19.89	43.50	23.61	1000.0	120.000	113.0	V	0.0	8.2
296.110000	31.42	46.00	14.58	1000.0	120.000	129.0	V	274.0	14.9
450.030000	34.07	46.00	11.93	1000.0	120.000	111.0	V	62.0	19.3
630.102000	33.63	46.00	12.37	1000.0	120.000	179.0	V	0.0	22.6
928.466000	33.60	46.00	12.40	1000.0	120.000	195.0	V	304.0	27.0

Remark 928.466 MHz is a known external Interferer.

4.01a_BT_LE_low

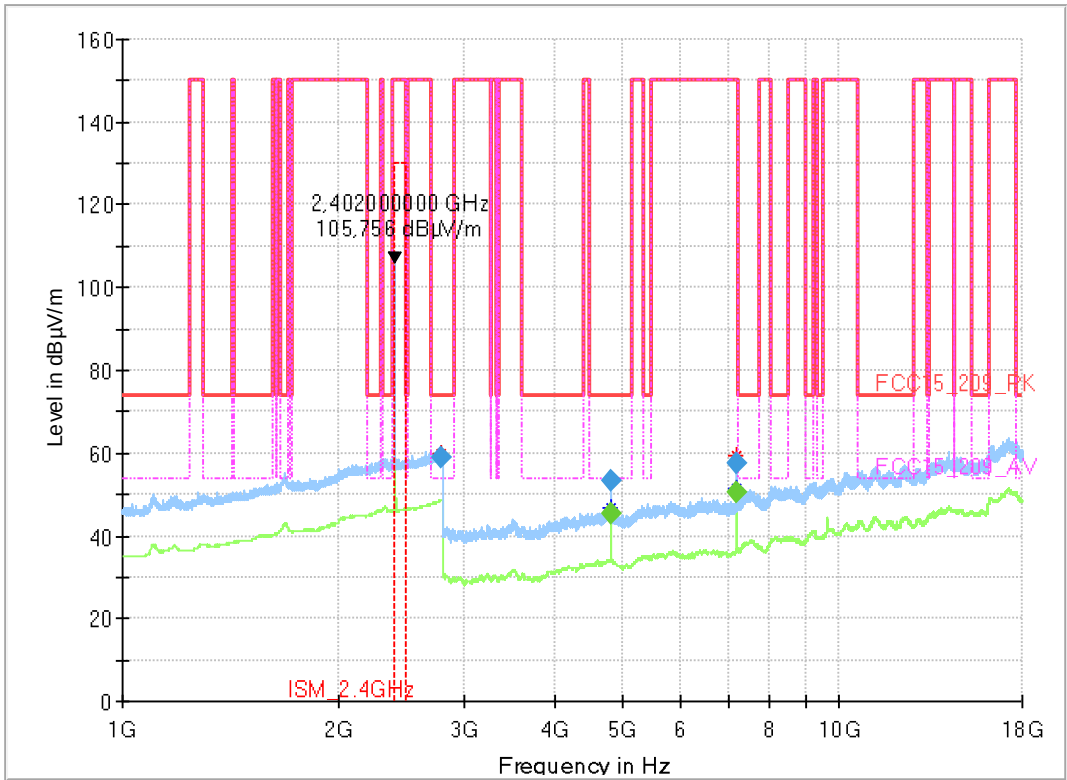
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BT-LE Channel low
Operator:	TFA
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	20-1-01835S03_C01
Manufacturer:	Husqvarna AB

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
2775.600000	59.10	---	74.00	14.90	100.0	1000.000	155.0	V	8.0	90.0
4803.600000	---	45.51	54.00	8.49	100.0	1000.000	155.0	V	11.0	90.0
4803.600000	53.16	---	74.00	20.84	100.0	1000.000	155.0	V	10.0	90.0
7205.200000	---	50.36	150.00	99.64	100.0	1000.000	155.0	H	305.0	90.0
7206.800000	57.43	---	150.00	92.57	100.0	1000.000	155.0	H	306.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB/m)	Comment
2775.600000	39	09:38:00 - 24.02.2021
4803.600000	6	10:36:24 - 24.02.2021
4803.600000	6	10:32:29 - 24.02.2021
7205.200000	12	10:34:24 - 24.02.2021
7206.800000	12	10:30:28 - 24.02.2021

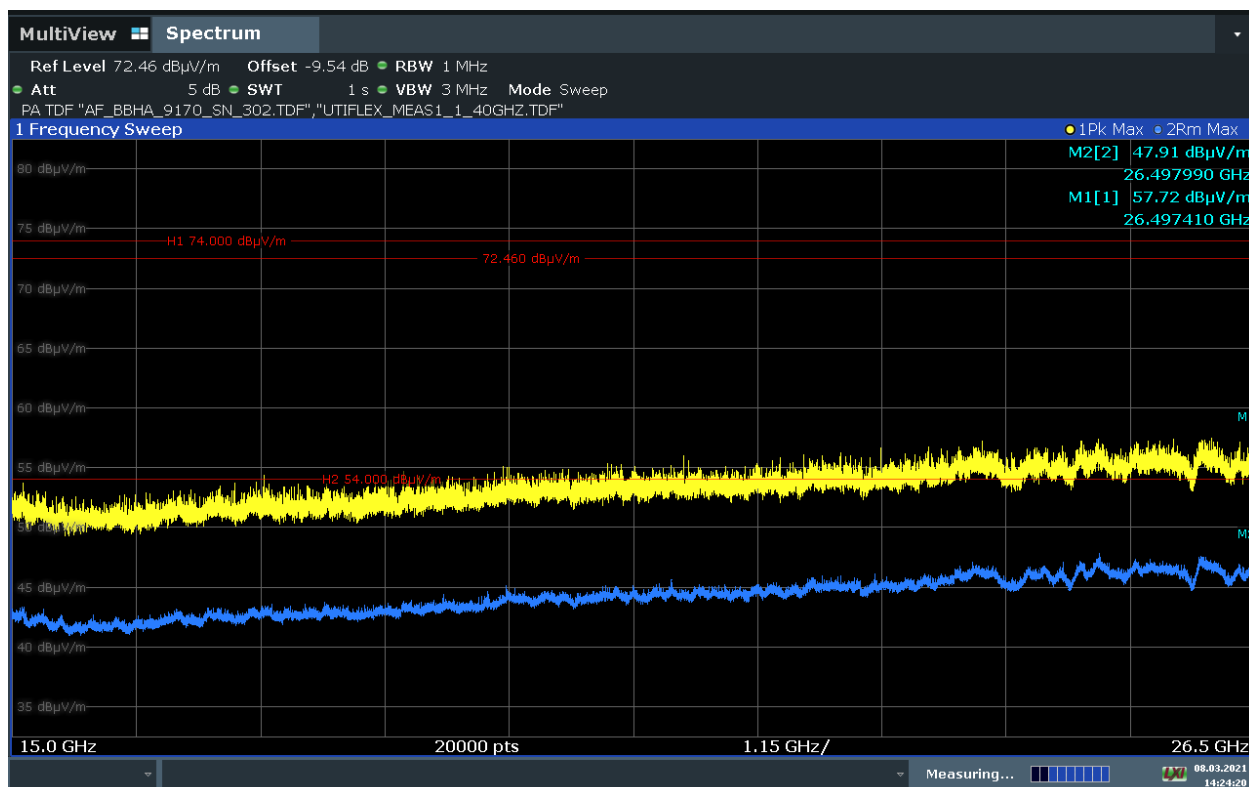
4.01b_BT_LE_low

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BT-LE Channel low
Operator:	Mah
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	20-1-01835S03_C01
Manufacturer:	Husqvarna AB



14:24:21 08.03.2021

4.02a_BT_LE_mid

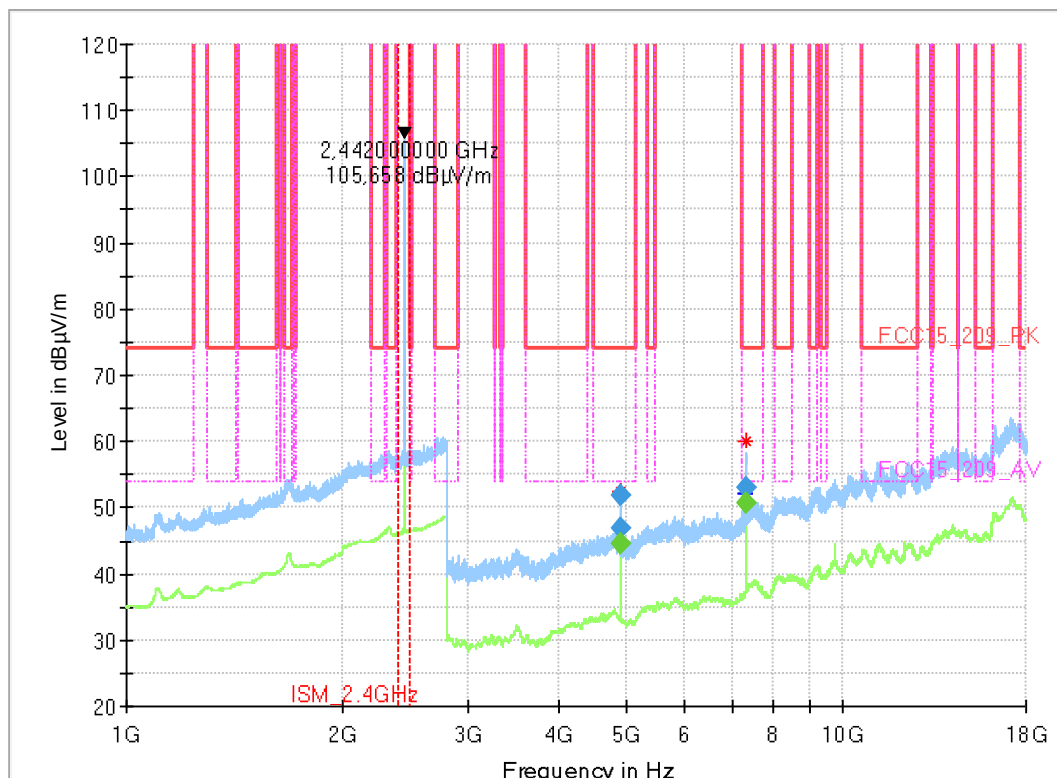
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
 Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
 Antenna polarisation: horizontal/vertical

Operating Mode: BT-LE | Channel mid
 Operator: TFA
 Environmental Conditions: Humidity : %rH; Temperature: °C
 Verdict: Passed

EUT Information

PMT number: 20-1-01835S03_C01
 Manufacturer: Husqvarna AB
 Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
4883.600000	46.90	---	74.00	27.10	100.0	1000.000	155.0	H	305.0	90.0
4883.600000	---	44.55	54.00	9.45	100.0	1000.000	155.0	V	190.0	0.0
4884.400000	51.78	---	74.00	22.22	100.0	1000.000	155.0	V	191.0	0.0
7325.200000	53.14	---	74.00	20.86	100.0	1000.000	155.0	H	260.0	90.0
7325.200000	---	50.59	54.00	3.41	100.0	1000.000	155.0	H	305.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB/m)	Comment
4883.600000	6	14:58:23 - 24.02.2021
4883.600000	6	15:00:15 - 24.02.2021
4884.400000	6	14:54:37 - 24.02.2021
7325.200000	13	15:08:11 - 24.02.2021
7325.200000	13	15:02:03 - 24.02.2021

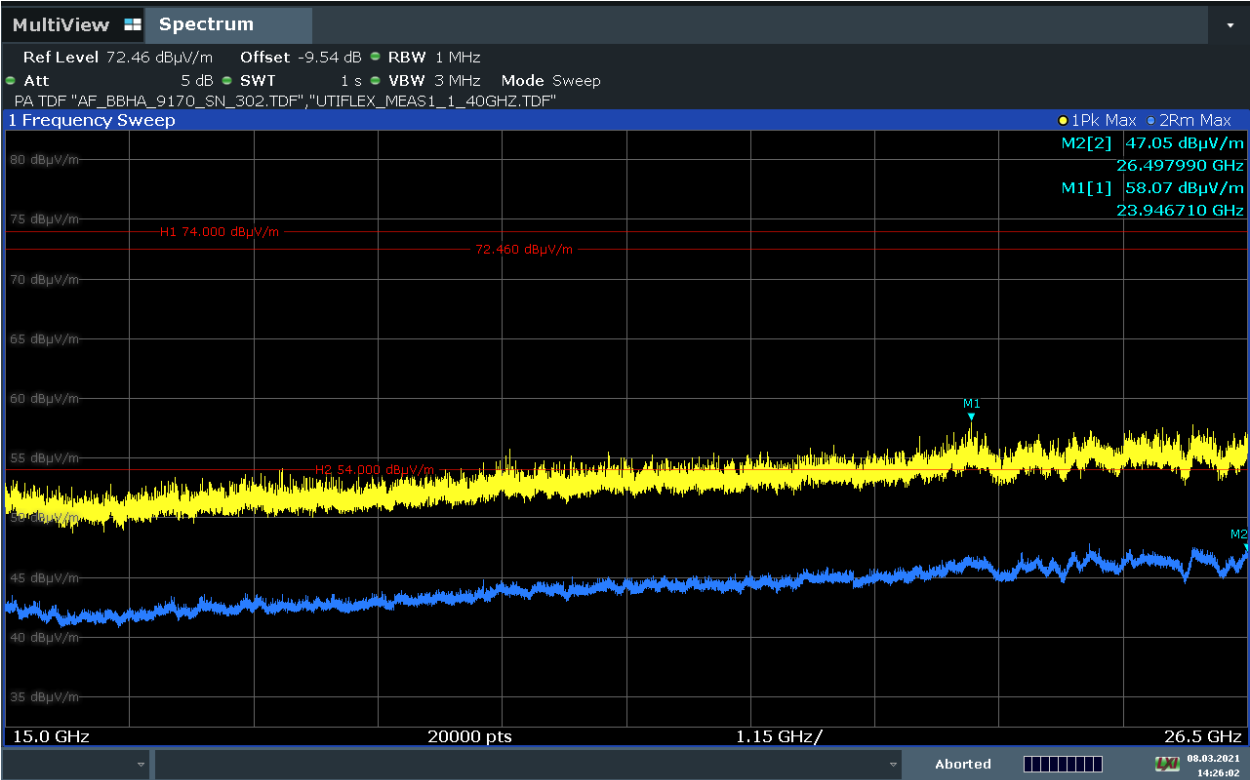
4.02b_BT_LE_mid

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BT-LE Channel mid
Operator:	Mah
Environmental Conditions:	Humidity : %rH; Temperature: °C
Verdict:	Passed

EUT Information

PMT number:	20-1-01835S03_C01
Manufacturer:	Husqvarna AB



14:26:02 08.03.2021

4.03a_BT_LE_high

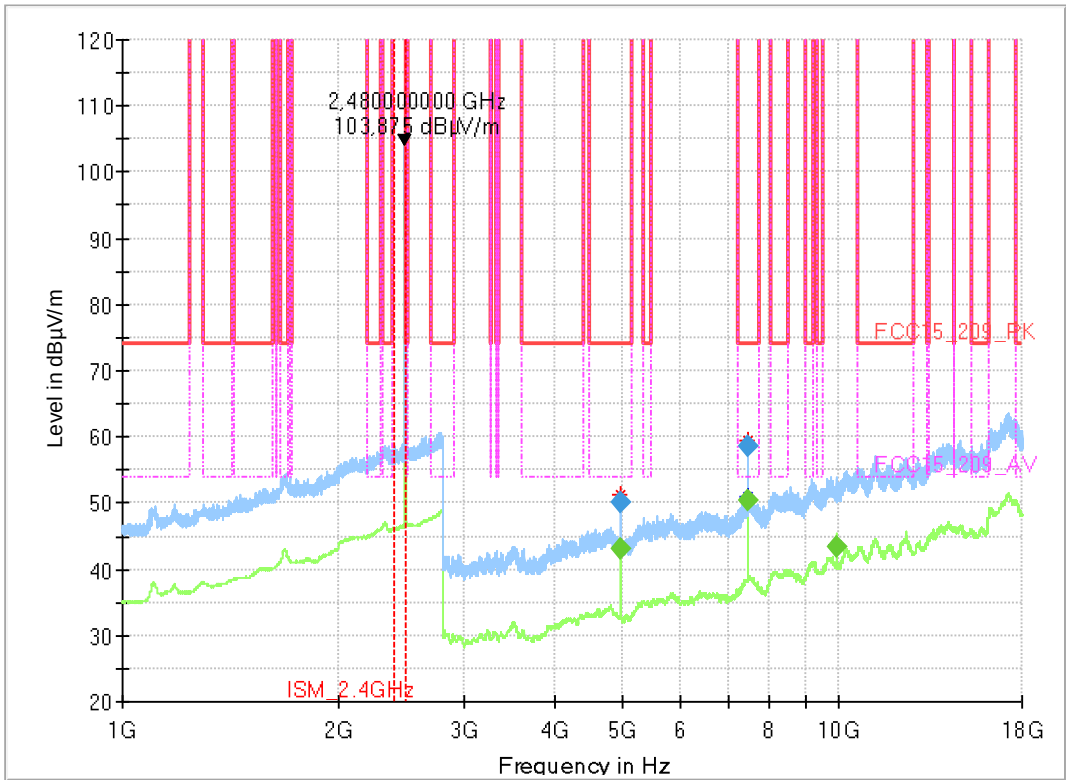
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BT-LE Channel High
Operator:	Mah
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	20-1-01835S03_C01
Manufacturer:	Husqvarna AB

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
4959.600000	---	43.24	54.00	10.76	100.0	1000.000	155.0	V	190.0	0.0
4960.400000	50.04	---	74.00	23.96	100.0	1000.000	155.0	V	192.0	0.0
7439.200000	---	50.49	54.00	3.51	100.0	1000.000	155.0	H	317.0	90.0
7439.200000	58.55	---	74.00	15.45	100.0	1000.000	155.0	H	318.0	90.0
9920.800000	---	43.34	150.00	106.66	100.0	1000.000	155.0	V	180.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB/m)	Comment
4959.600000	5	12:58:43 - 24.02.2021
4960.400000	5	12:55:05 - 24.02.2021
7439.200000	13	13:00:31 - 24.02.2021
7439.200000	13	12:56:50 - 24.02.2021
9920.800000	17	13:02:19 - 24.02.2021

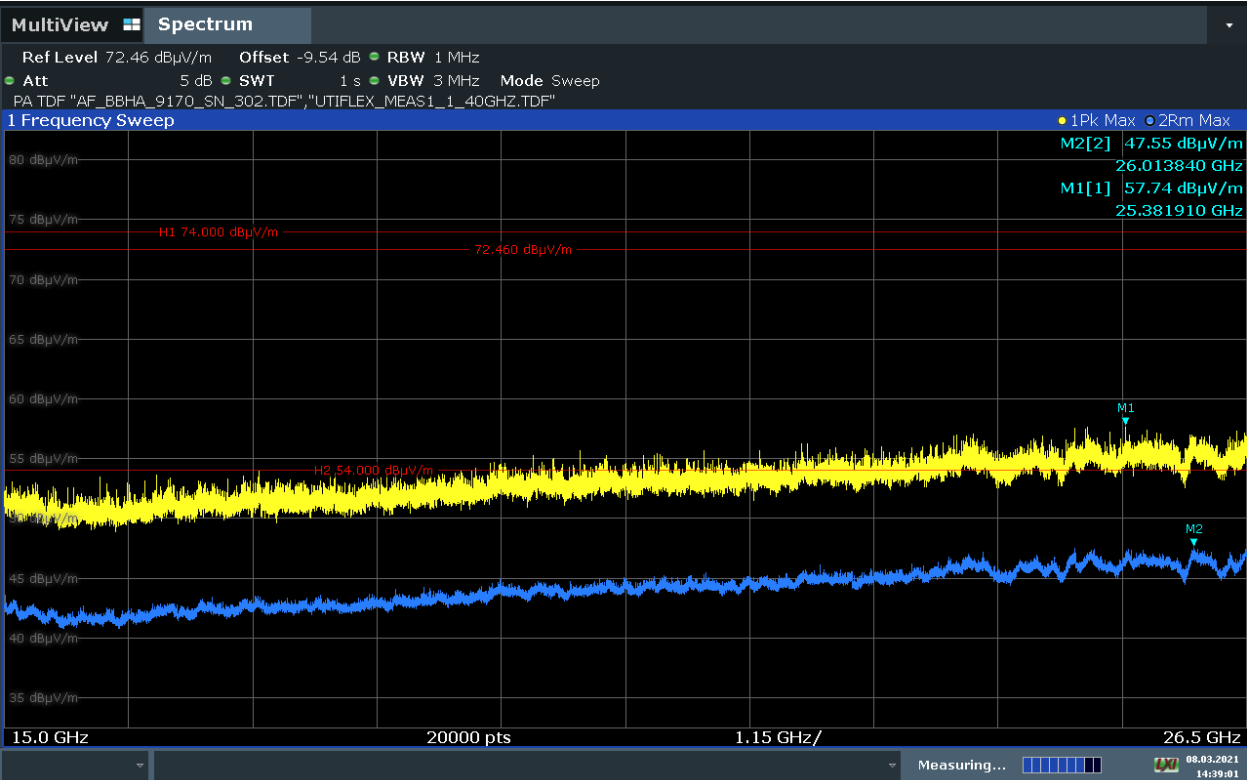
4.03b_BT_LE_high

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BT-LE Channel High
Operator:	TFA
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	20-1-01835S03_C01
Manufacturer:	Husqvarna AB



14:39:01 08.03.2021

9.01_BE_BT_LE_low

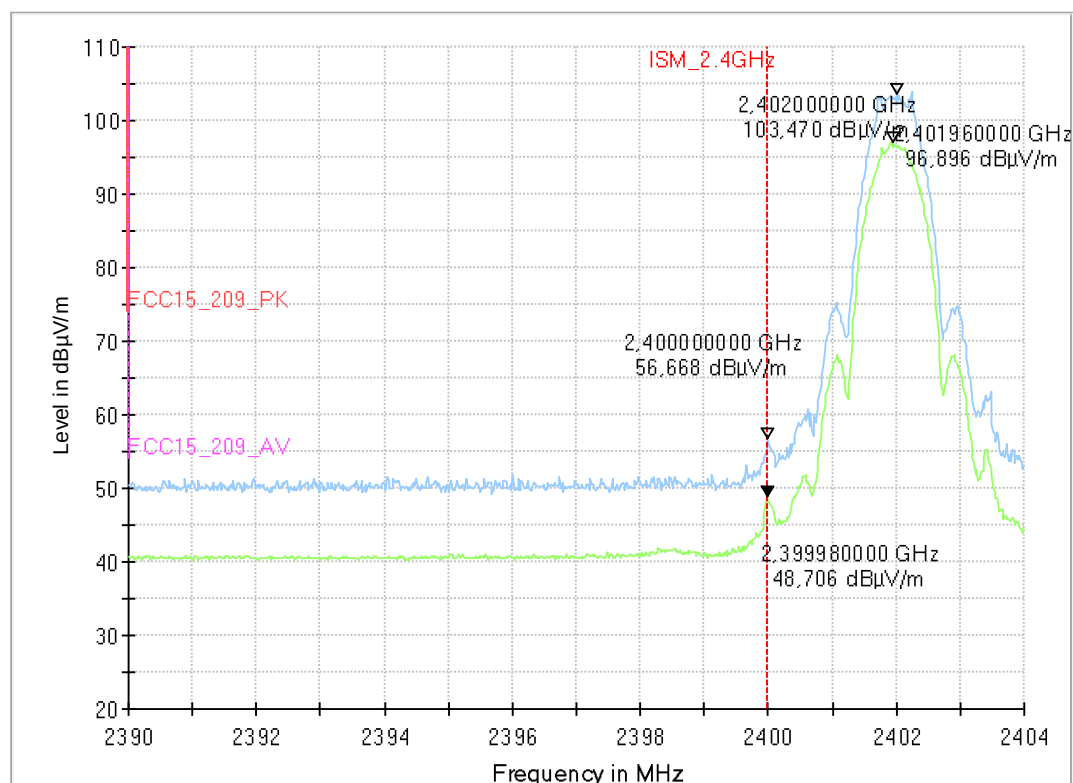
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BT-LE Channel low
Operator:	TFA
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01835S03_C01
Manufacturer:	Husqvarna AB

Full Spectrum



9.02_BE_BT_LE_high

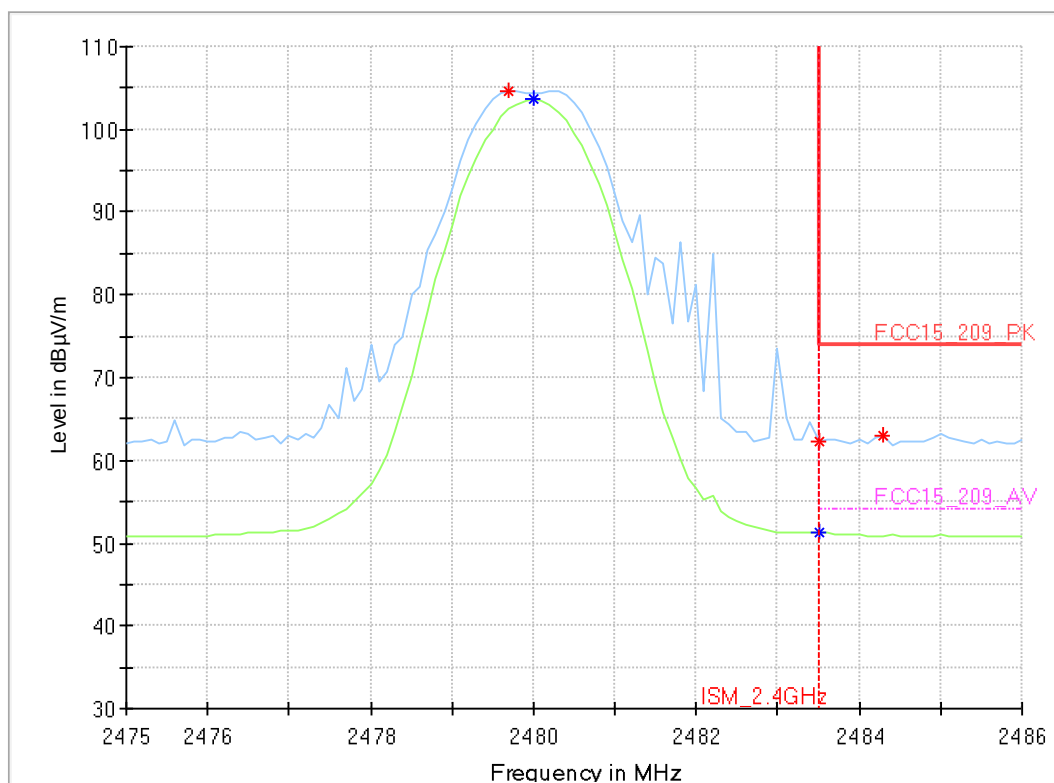
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BLE Channel High
Operator:	TFA
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01835S03_C01
Manufacturer:	Husqvarna AB

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height	Pol	Azimuth	Elevation
2479.700000	104.64	---	150.00	45.36	---	---	155.0	V	96.0	90.0
2480.000000	---	103.60	150.00	46.40	---	---	155.0	V	267.0	90.0
2483.500000	---	51.20	54.00	2.80	---	---	155.0	V	249.0	90.0
2483.500000	62.19	---	74.00	11.81	---	---	155.0	H	55.0	0.0
2484.300000	62.90	---	74.00	11.10	---	---	155.0	V	145.0	0.0

(continuation of the "Critical_Freqs" table from column 16 ...)

Frequency (MHz)	Corr. (dB/m)	Comment
2479.700000	36	13:38:31 - 24.02.2021
2480.000000	36	13:38:19 - 24.02.2021
2483.500000	36	13:38:13 - 24.02.2021
2483.500000	36	13:37:52 - 24.02.2021
2484.300000	36	13:37:58 - 24.02.2021

1.2 Conducted measurements

Minimum Emission Bandwidth 6 dB

Mode	DUT Frequency	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left	Band Edge Right
BLE[GFSK]; 2402MHz	2402.0000	0.732674	0.500000	---	2401.6237	2402.3564
BLE[GFSK]; 2442MHz	2442.0000	0.772278	0.500000	---	2441.6039	2442.3762
BLE[GFSK]; 2480MHz	2480.0000	0.772278	0.500000	---	2479.6039	2480.3762

Peak output power (Sweep)

Mode	DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
BLE[GFSK]; 2402MHz	2402.000000	5.2	30.0	PASS
BLE[GFSK]; 2442MHz	2442.000000	5.0	30.0	PASS
BLE[GFSK]; 2480MHz	2480.000000	4.8	30.0	PASS

Duty Cycle

Mode	DUT Frequency	DutyCycle (%)	Result
BLE[GFSK]; 2402MHz	2402.0000	100.000	PASS
BLE[GFSK]; 2442MHz	2442.0000	100.000	PASS
BLE[GFSK]; 2480MHz	2480.0000	100.000	PASS

Peak Power Spectral Density

Mode	DUT Frequency	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
BLE[GFSK]; 2402MHz	2402.000000	2401.742500	0.519	8.0	PASS
BLE[GFSK]; 2442MHz	2442.000000	2442.052500	-0.053	8.0	PASS
BLE[GFSK]; 2480MHz	2480.000000	2479.737500	0.296	8.0	PASS

Occupied Channel Bandwidth 99%

Mode	DUT Frequency	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left	Band Edge Right
BLE[GFSK]; 2402MHz	2402.0000	1.045000	---	---	2401.4675	2402.5125
BLE[GFSK]; 2442MHz	2442.0000	1.055000	---	---	2441.4625	2442.5175
BLE[GFSK]; 2480MHz	2480.0000	1.060000	---	---	2479.4575	2480.5175

Tx Spurious Emission

Mode	DUT Frequency (MHz)	Result
BLE[GFSK]; 2402MHz	2402.000000	PASS
BLE[GFSK]; 2442MHz	2442.000000	PASS
BLE[GFSK]; 2480MHz	2480.000000	PASS

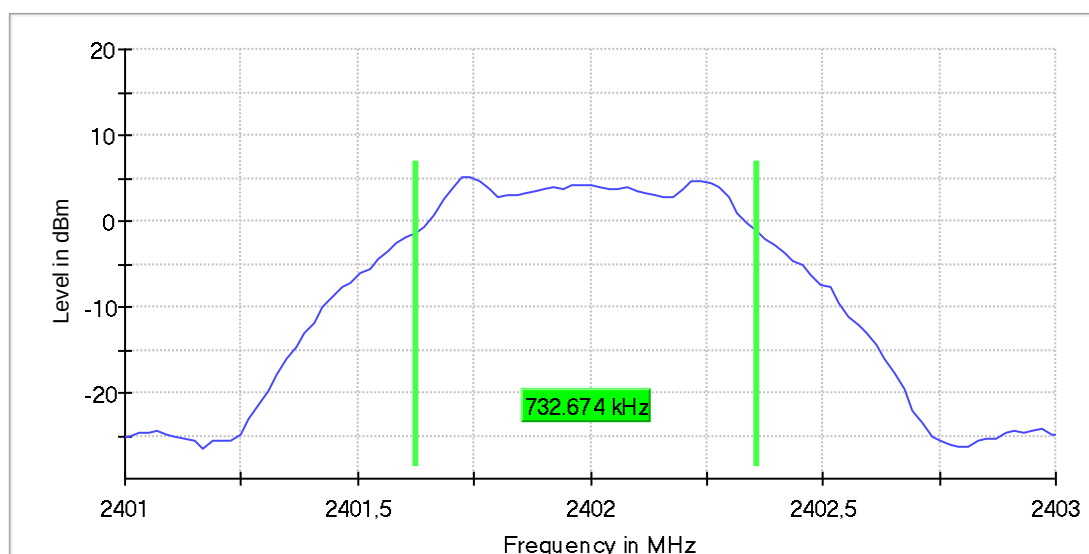
Minimum Emission Bandwidth 6 dB (2402 MHz; BLE[GFSK] (5 dBm); 1 MHz)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.732674	0.500000	---	2401.623762	2402.356436

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	5.1	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 40
SweepTime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.34 dB	0.50 dB

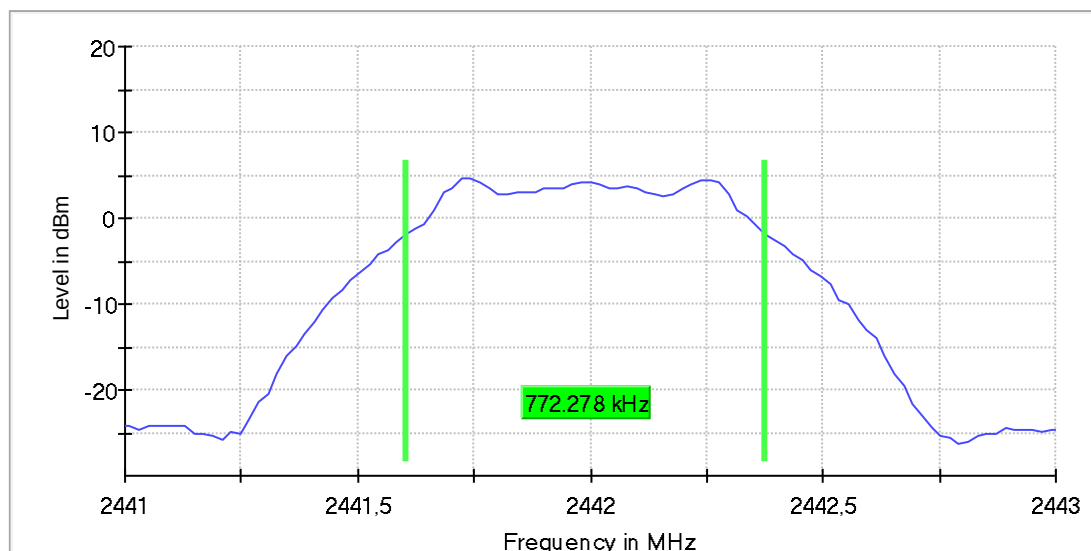
Minimum Emission Bandwidth 6 dB (2442 MHz; BLE[GFSK] (5 dBm); 1 MHz)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2442.000000	0.772278	0.500000	---	2441.603960	2442.376238

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2442.000000	4.8	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44100 GHz	2.44100 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 40
Sweptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.34 dB	0.50 dB

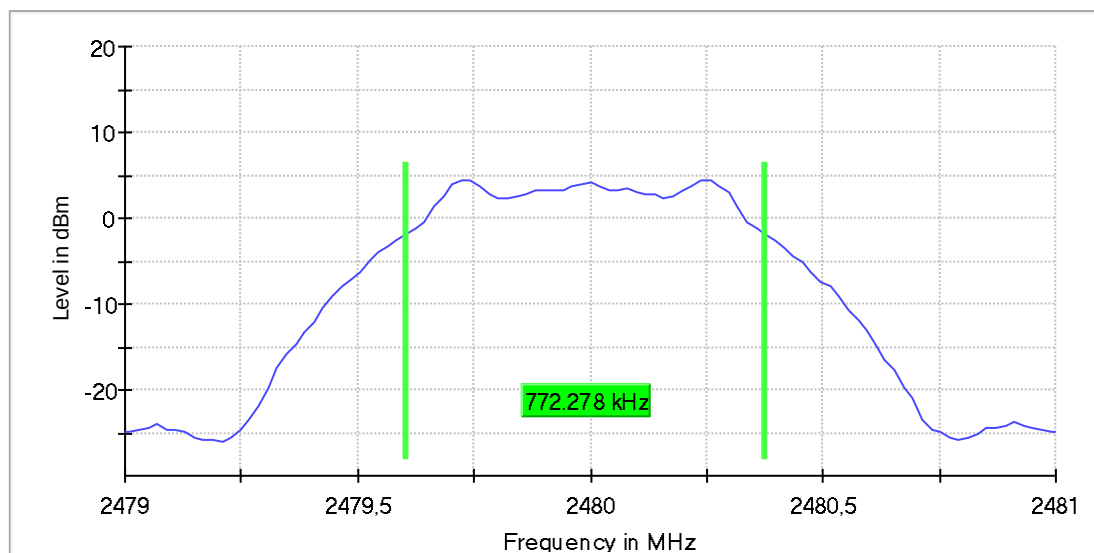
Minimum Emission Bandwidth 6 dB (2480 MHz; BLE[GFSK] (5 dBm); 1 MHz)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.772278	0.500000	---	2479.603960	2480.376238

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	4.5	PASS



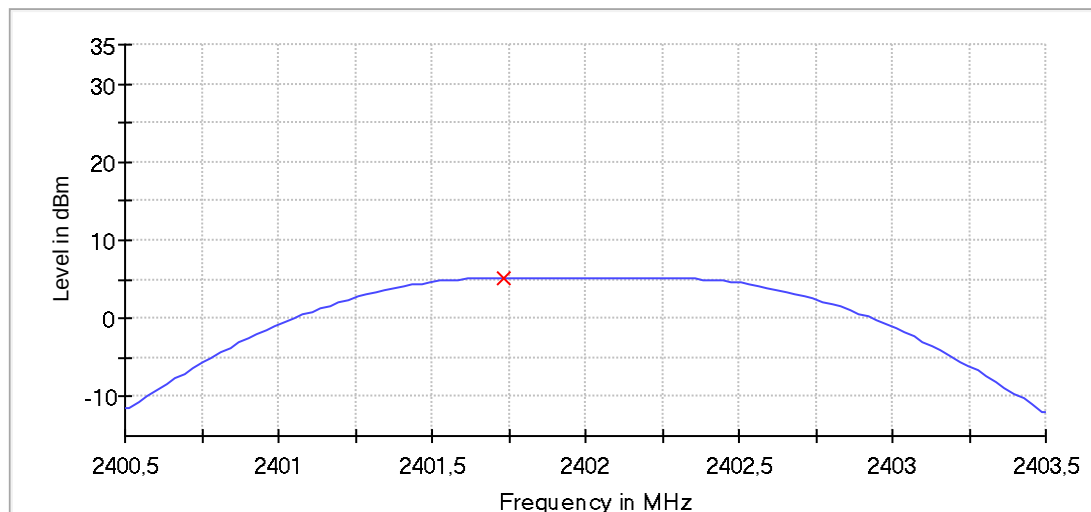
Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 40
SweepTime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	12 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.37 dB	0.50 dB

Peak output power (Sweep) (2402 MHz; BLE[GFSK] (5 dBm); 1 MHz)

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2402.000000	5.2	30.0	PASS



— Connector 1 × Peak Connector 1

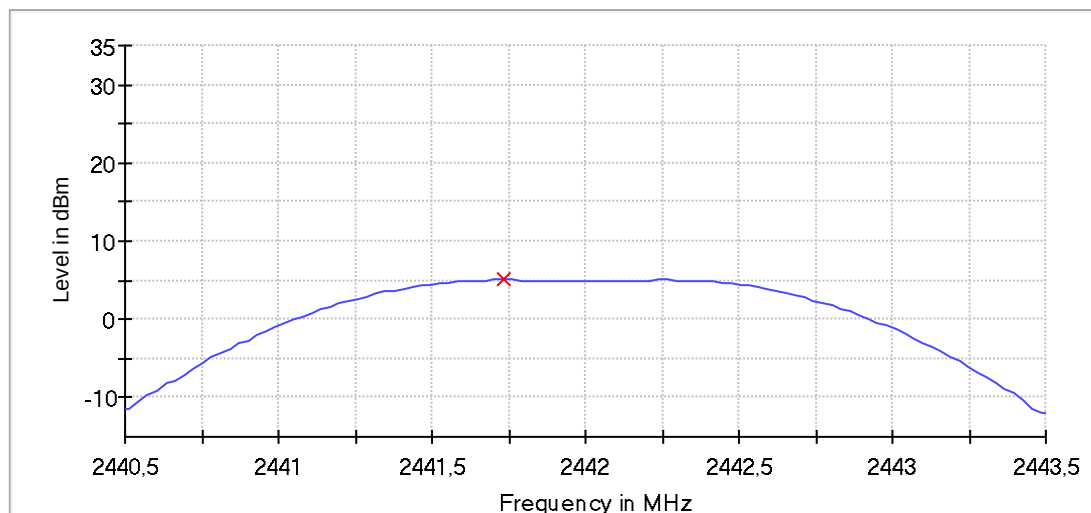
Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40050 GHz	2.40050 GHz
Stop Frequency	2.40350 GHz	2.40350 GHz
Span	3.000 MHz	3.000 MHz
RBW	1.000 MHz	≥ 732.675 kHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	101	~ 101
SweepTime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.06 dB	0.50 dB

Peak output power (Sweep) (2442 MHz; BLE[GFSK] (5 dBm); 1 MHz)

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2442.000000	5.0	30.0	PASS



— Connector 1 × Peak Connector 1

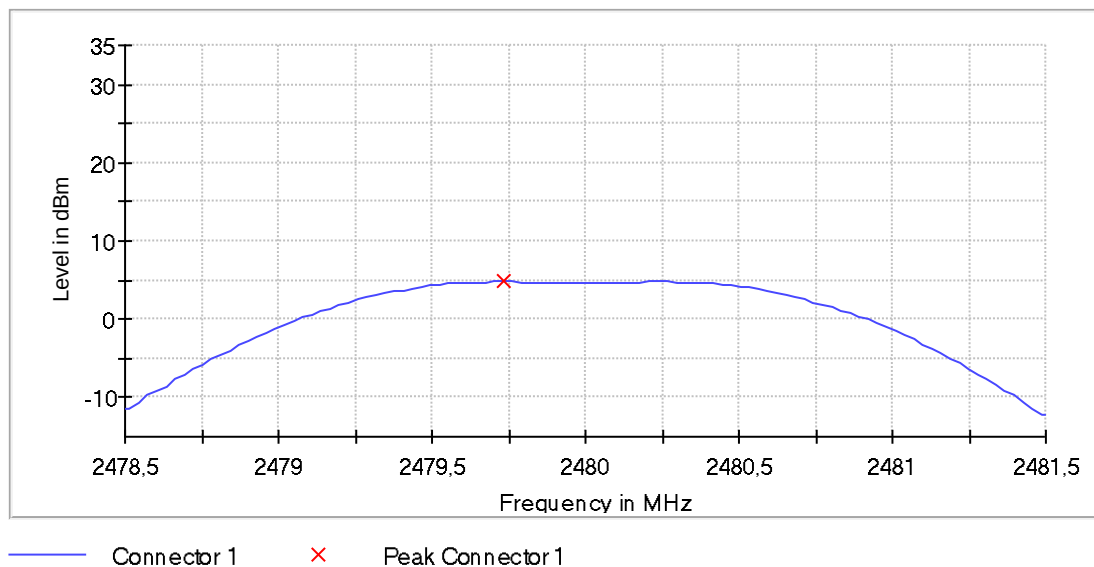
Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44050 GHz	2.44050 GHz
Stop Frequency	2.44350 GHz	2.44350 GHz
Span	3.000 MHz	3.000 MHz
RBW	1.000 MHz	>= 772.279 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 101
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.05 dB	0.50 dB

Peak output power (Sweep) (2480 MHz; BLE[GFSK] (5 dBm); 1 MHz)

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2480.000000	4.8	30.0	PASS



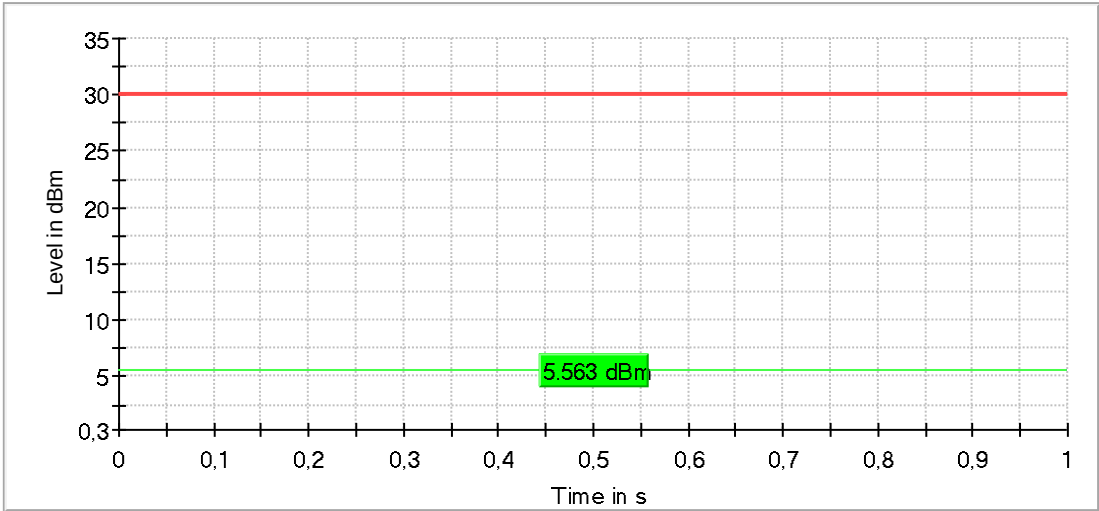
Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47850 GHz	2.47850 GHz
Stop Frequency	2.48150 GHz	2.48150 GHz
Span	3.000 MHz	3.000 MHz
RBW	1.000 MHz	>= 772.279 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 101
SweepTime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.09 dB	0.50 dB

Duty Cycle (2402 MHz; BLE[GFSK] (5 dBm); 1 MHz)

Result

DUT Frequency (MHz)	DutyCycle (%)	Result
2402.000000	100.000	PASS



— Gated Trace — Overall — Limit

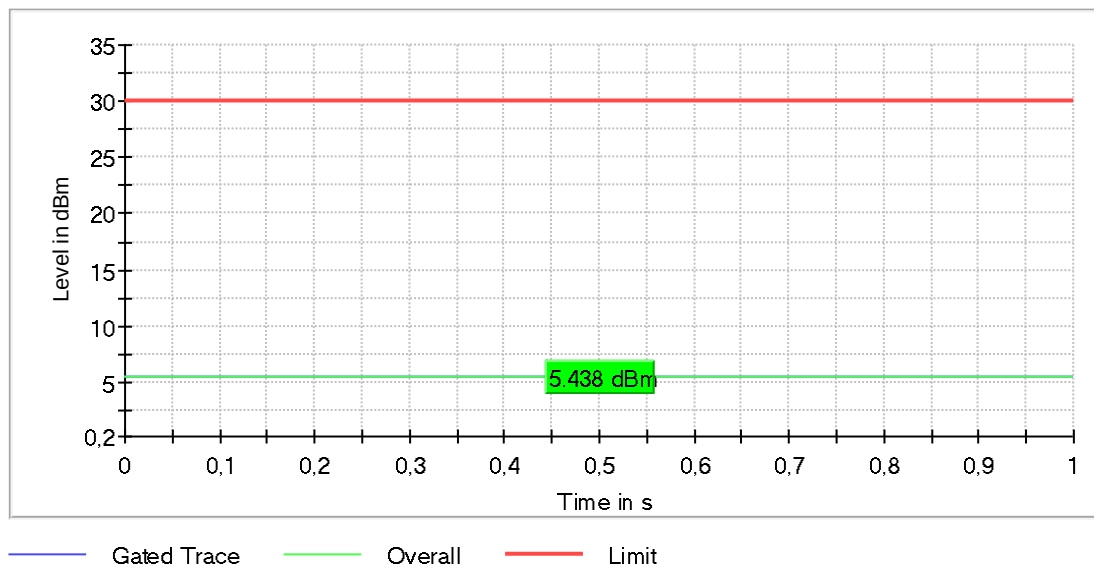
OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

Duty Cycle (2442 MHz; BLE[GFSK] (5 dBm); 1 MHz)

Result

DUT Frequency (MHz)	DutyCycle (%)	Result
2442.000000	100.000	PASS



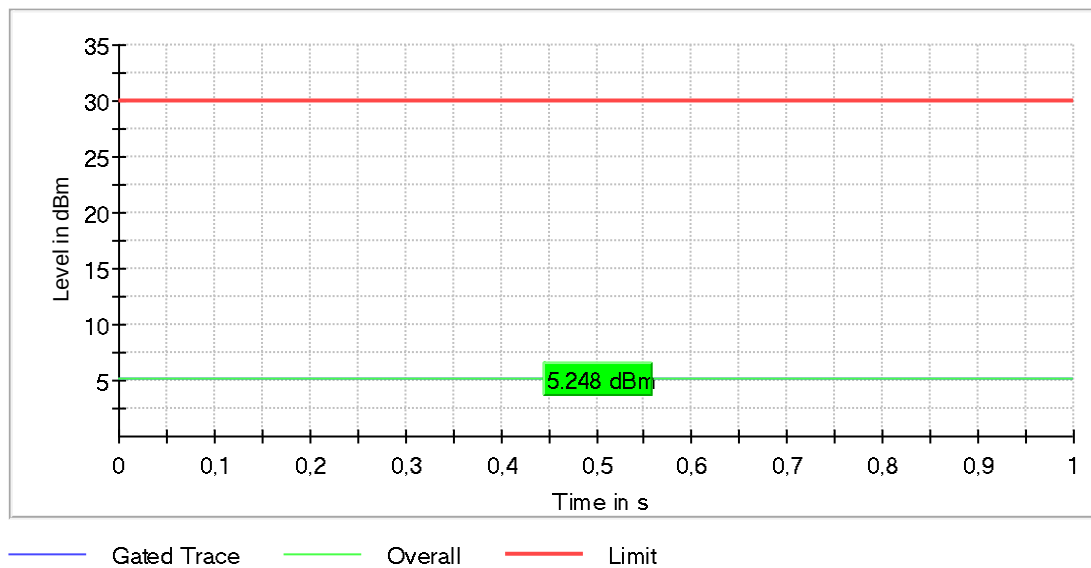
OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

Duty Cycle (2480 MHz; BLE[GFSK] (5 dBm); 1 MHz)

Result

DUT Frequency (MHz)	DutyCycle (%)	Result
2480.000000	100.000	PASS



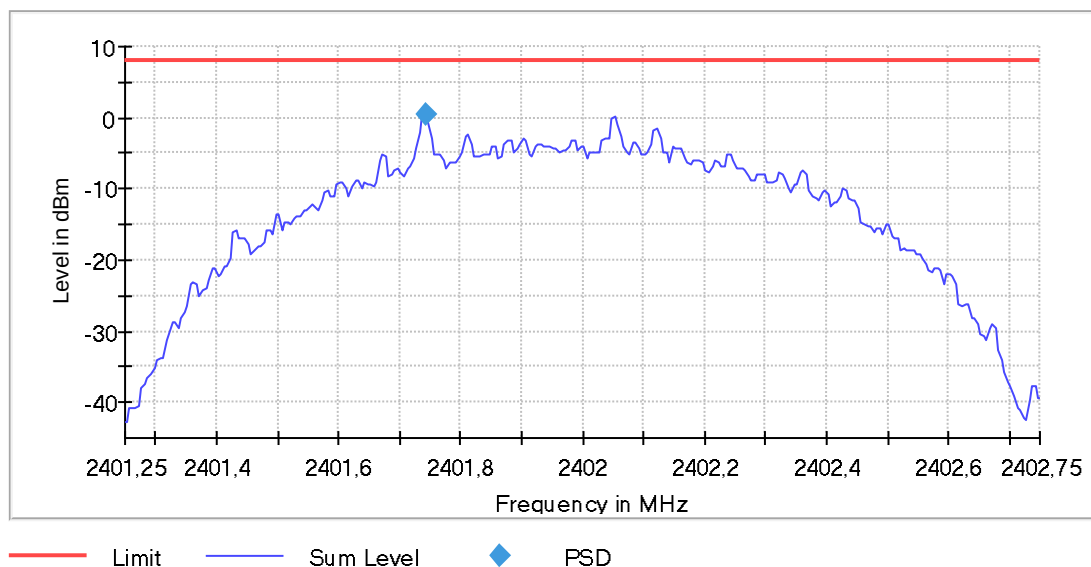
OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

Peak Power Spectral Density (2402 MHz; BLE[GFSK] (5 dBm); 1 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2401.742500	0.519	8.0	PASS



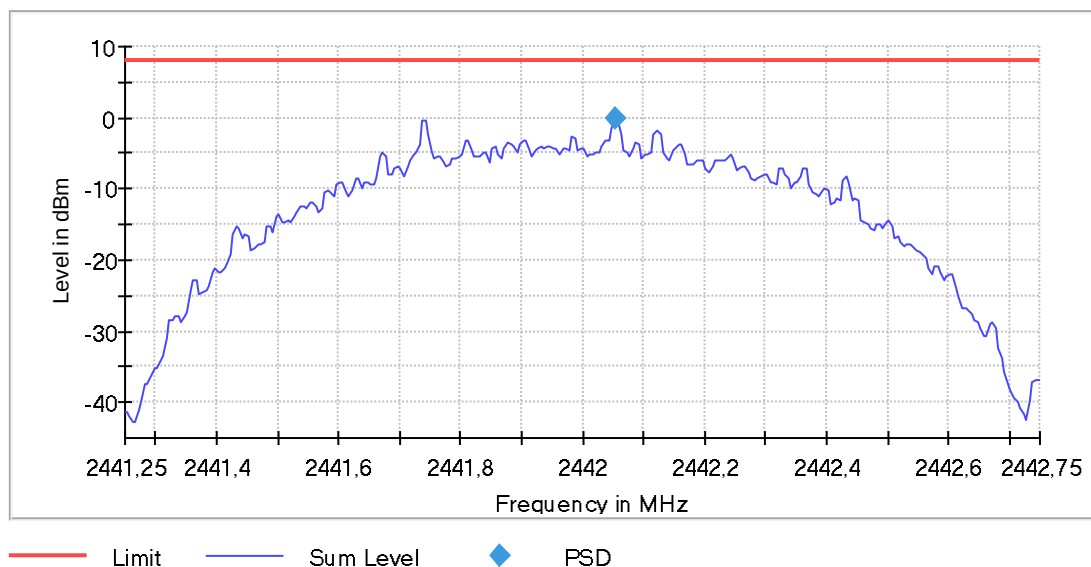
Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40125 GHz	2.40125 GHz
Stop Frequency	2.40275 GHz	2.40275 GHz
Span	1.500 MHz	1.500 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	300	~ 300
SweepTime	1.500 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	16 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.32 dB	0.50 dB

Peak Power Spectral Density (2442 MHz; BLE[GFSK] (5 dBm); 1 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2442.000000	2442.052500	-0.053	8.0	PASS



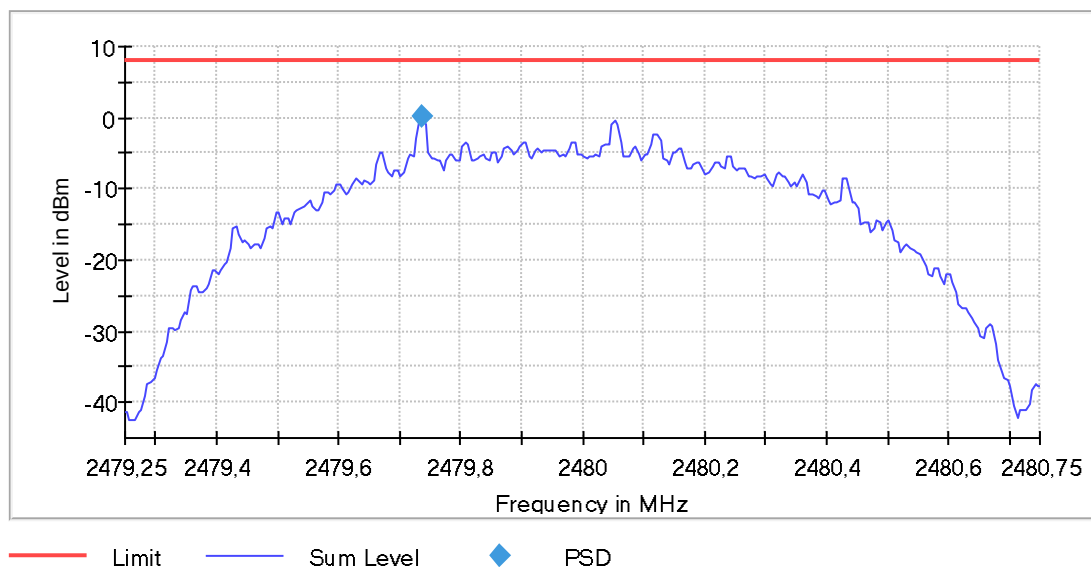
Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44125 GHz	2.44125 GHz
Stop Frequency	2.44275 GHz	2.44275 GHz
Span	1.500 MHz	1.500 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	300	~ 300
SweepTime	1.500 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	24 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.04 dB	0.50 dB

Peak Power Spectral Density (2480 MHz; BLE[GFSK] (5 dBm); 1 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2479.737500	0.296	8.0	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47925 GHz	2.47925 GHz
Stop Frequency	2.48075 GHz	2.48075 GHz
Span	1.500 MHz	1.500 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	300	~ 300
SweepTime	1.500 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	14 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.44 dB	0.50 dB

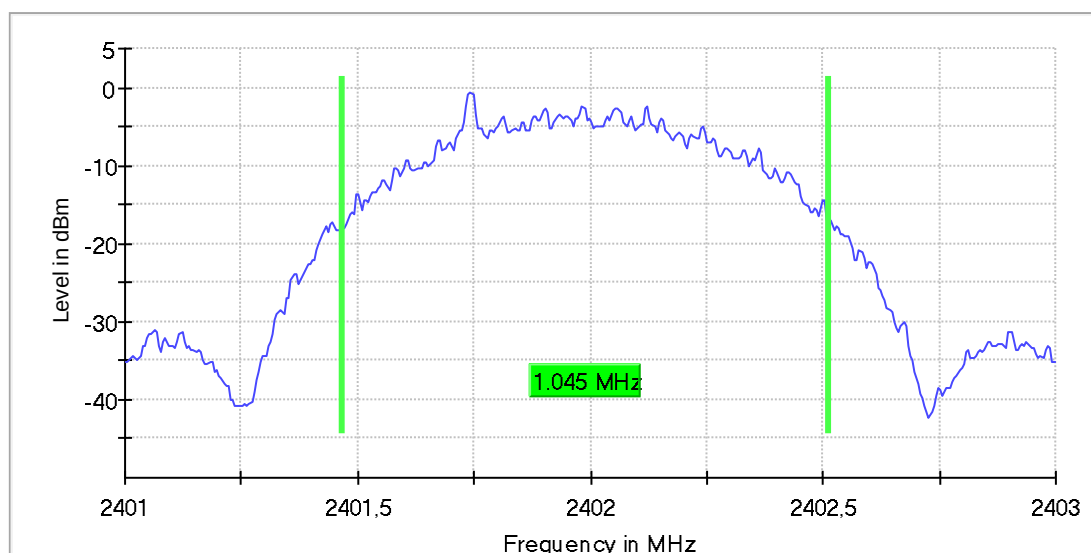
Occupied Channel Bandwidth 99% (2402 MHz; BLE[GFSK] (5 dBm); 1 MHz)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.045000	---	---	2401.467500	2402.512500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
SweepTime	419.000 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	33 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.30 dB

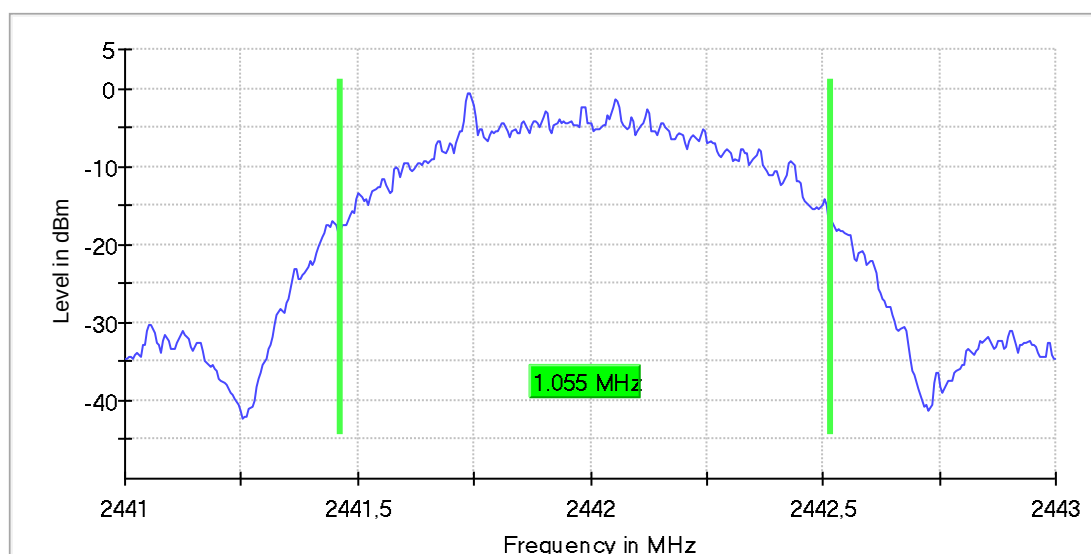
Occupied Channel Bandwidth 99% (2442 MHz; BLE[GFSK] (5 dBm); 1 MHz)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2442.000000	1.055000	---	---	2441.462500	2442.517500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2442.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44100 GHz	2.44100 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
SweepTime	419.000 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	37 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.24 dB	0.30 dB

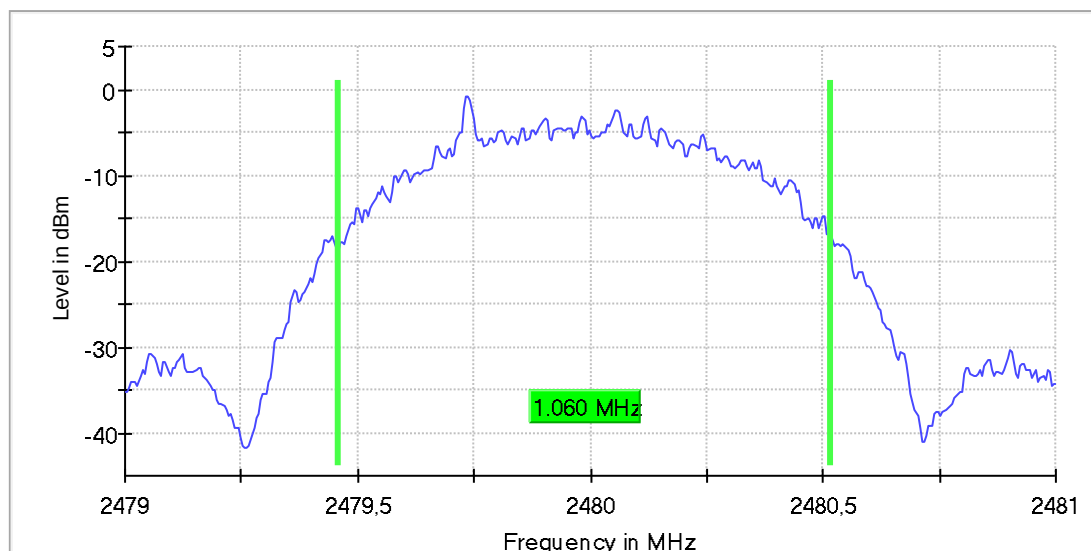
Occupied Channel Bandwidth 99% (2480 MHz; BLE[GFSK] (5 dBm); 1 MHz)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.060000	---	---	2479.457500	2480.517500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweptime	419.000 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	40 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.12 dB	0.30 dB

Tx Spurious Emission (2402 MHz; BLE[GFSK] (5 dBm); 1 MHz)

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Final measurements

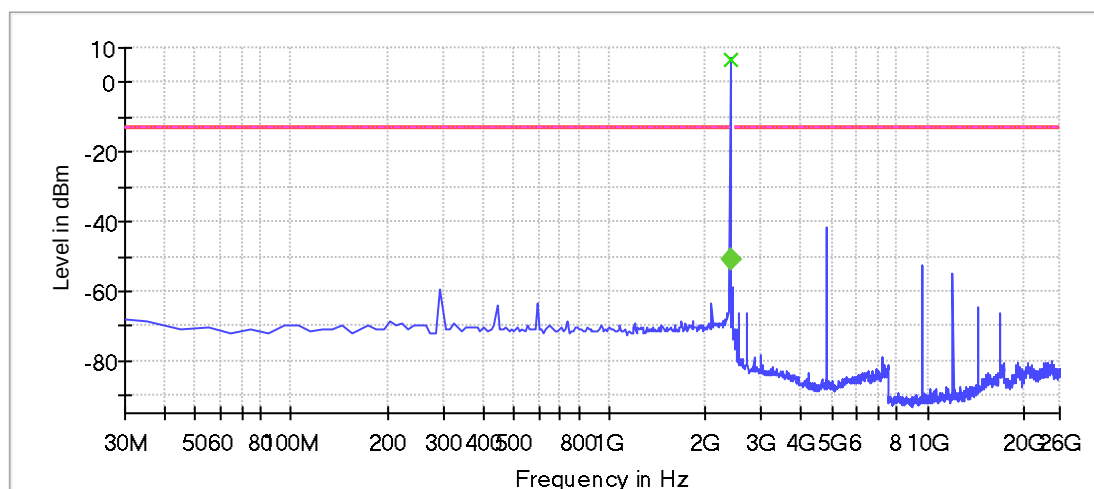
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2399.958664	6.5	-50.9	-12.8	38.1	PASS

Pre Measurements

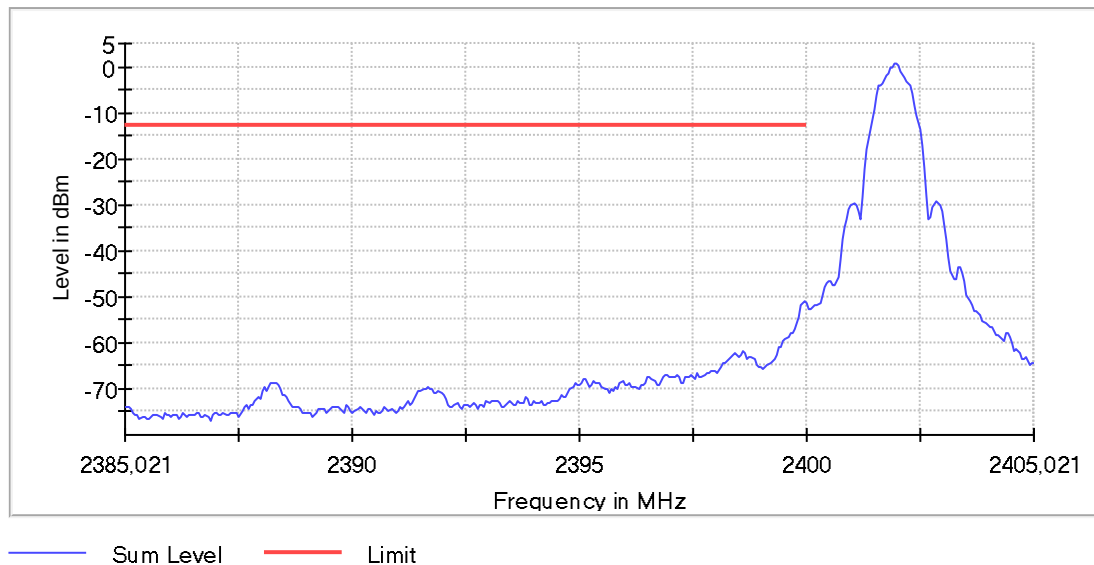
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2395.021008	6.5	-19.4	-12.8
4807.166065	-41.8	29.0	-12.8
9604.412133	-52.5	39.7	-12.8
12013.029431	-54.9	42.1	-12.8
293.886555	-59.3	46.4	-12.8
2385.063025	-59.6	46.8	-12.8
592.626050	-63.2	50.4	-12.8
2096.281513	-63.6	50.7	-12.8
443.256303	-64.0	51.2	-12.8
14411.652465	-64.4	51.5	-12.8
2375.105042	-64.6	51.8	-12.8
2355.189076	-65.7	52.9	-12.8
2365.147059	-66.0	53.1	-12.8
2335.273109	-66.2	53.4	-12.8
16810.275499	-66.3	53.4	-12.8

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	26000.000000	1	1



x Limit Final Critical
 — Sum Level
 x Threshold
 x Critical



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Final Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	401	~ 401
SweepTime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	Sample	Sample
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Linear	Average Linear
SweepType	Sweep	AUTO
Preamp	off	off

Tx Spurious Emission (2442 MHz; BLE[GFSK] (5 dBm); 1 MHz)

Result

DUT Frequency (MHz)	Result
2442.000000	PASS

Final measurements

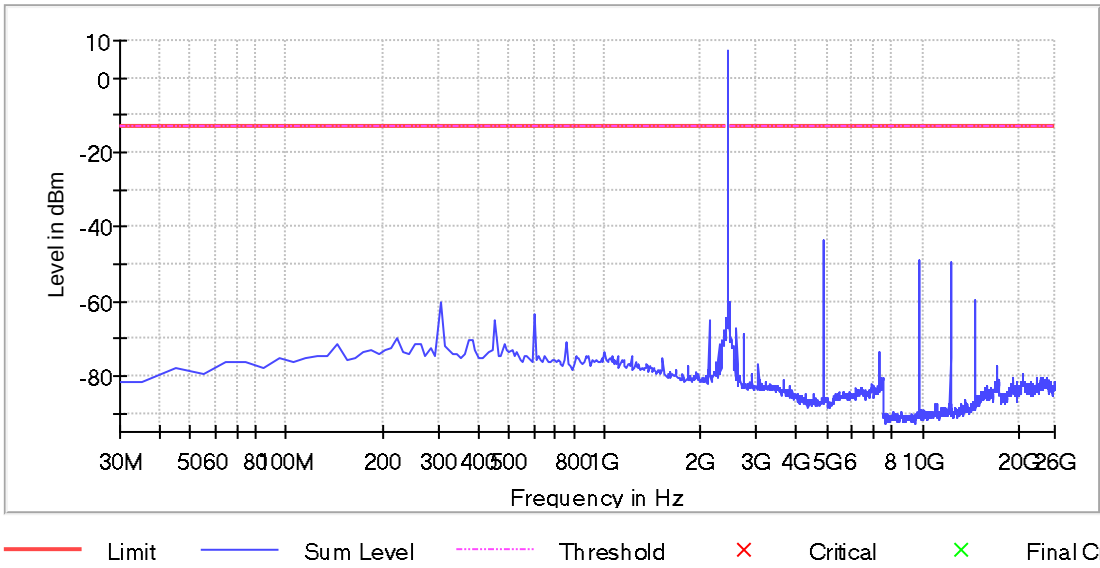
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
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Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4887.120166	-43.4	30.6	-12.8
9764.320336	-49.0	36.2	-12.8
12212.914683	-49.3	36.5	-12.8
14651.514768	-59.8	47.0	-12.8
303.844538	-60.1	47.4	-12.8
602.584034	-63.2	50.4	-12.8
9774.314598	-64.0	51.2	-12.8
453.214286	-64.8	52.0	-12.8
2136.113445	-65.2	52.4	-12.8
2598.434020	-67.3	54.5	-12.8
2385.063025	-67.8	55.0	-12.8
2748.347960	-68.8	56.0	-12.8
2365.147059	-69.3	56.5	-12.8
2488.497131	-69.4	56.6	-12.8
224.180672	-69.8	57.0	-12.8

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	26000.000000	1	1



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.05 dB	0.50 dB

Tx Spurious Emission (2480 MHz; BLE[GFSK] (5 dBm); 1 MHz)

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Final measurements

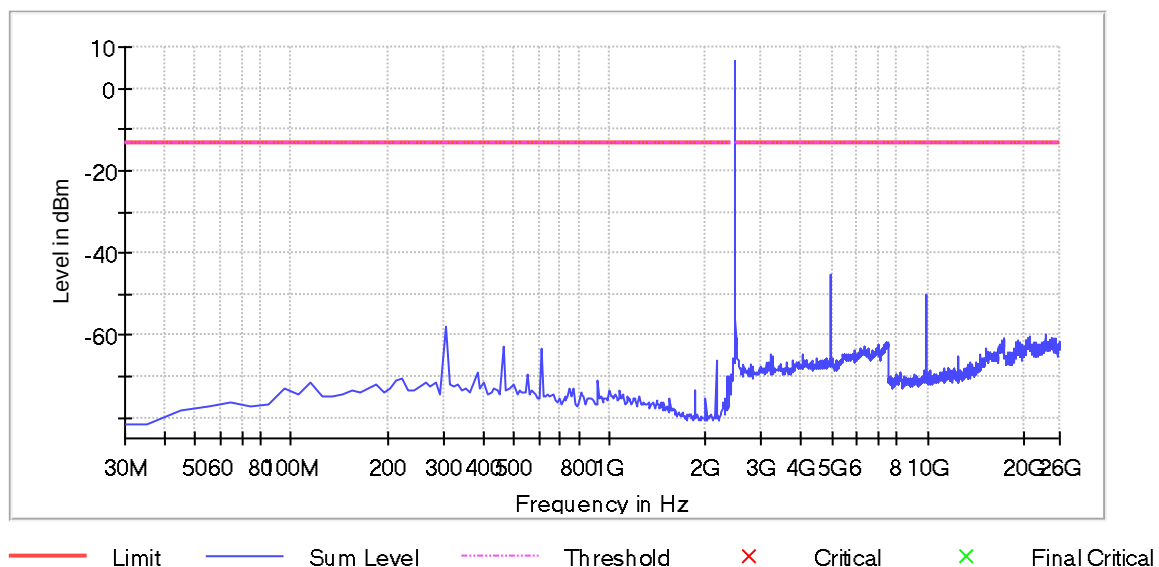
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
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Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4957.080004	-45.1	31.6	-13.4
9914.234275	-50.1	36.6	-13.4
9924.228538	-50.8	37.4	-13.4
2488.497131	-56.1	42.7	-13.4
303.844538	-57.9	44.5	-13.4
23476.448683	-59.7	46.3	-13.4
20967.888759	-60.5	47.1	-13.4
17250.023056	-60.6	47.1	-13.4
24795.691351	-60.6	47.2	-13.4
24565.823311	-60.6	47.2	-13.4
23416.483107	-60.6	47.2	-13.4
17280.005844	-60.8	47.3	-13.4
23446.465895	-60.8	47.4	-13.4
2508.485657	-60.8	47.4	-13.4
20548.129728	-60.8	47.4	-13.4

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	26000.000000	1	1



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

End Of Annex 1