

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

<b>Number of pages:</b>	48	<b>Date of Report:</b>	2021-Mar-24
<b>Testing company:</b>	CETECOM GmbH Im Teelbruch 116 45219 Essen Germany Tel. + 49 (0) 20 54 / 95 19-0 Fax: + 49 (0) 20 54 / 95 19-150	<b>Applicant:</b>	Husqvarna AB
<b>Product:</b> <b>Model:</b>	Application board with Bluetooth functionality Application Board Type 3		
<b>FCC ID:</b>	ZASHQ-BLE-1G	<b>IC:</b>	23307-HQBLE1G
<b>Testing has been carried out in accordance with:</b>	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

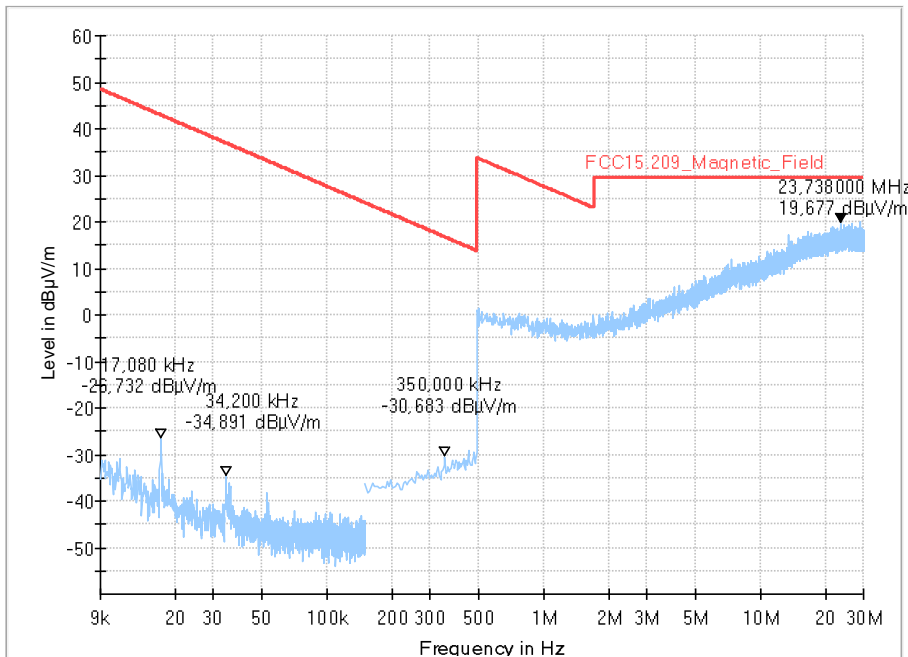
Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see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

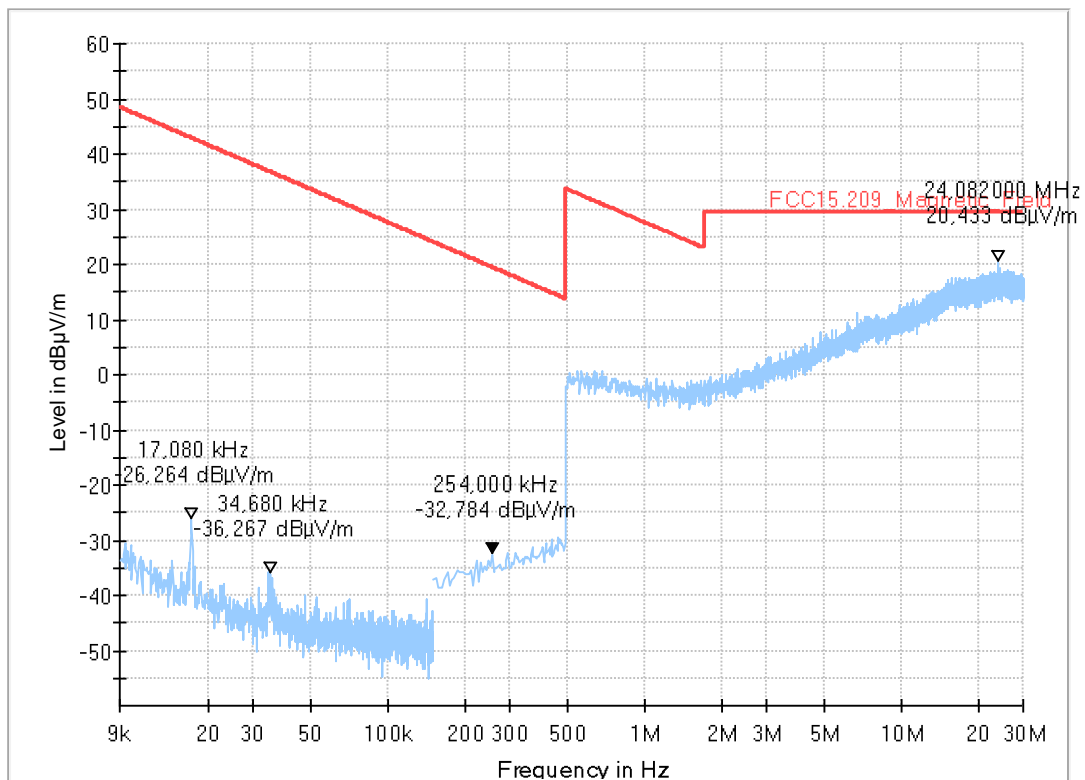
Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see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

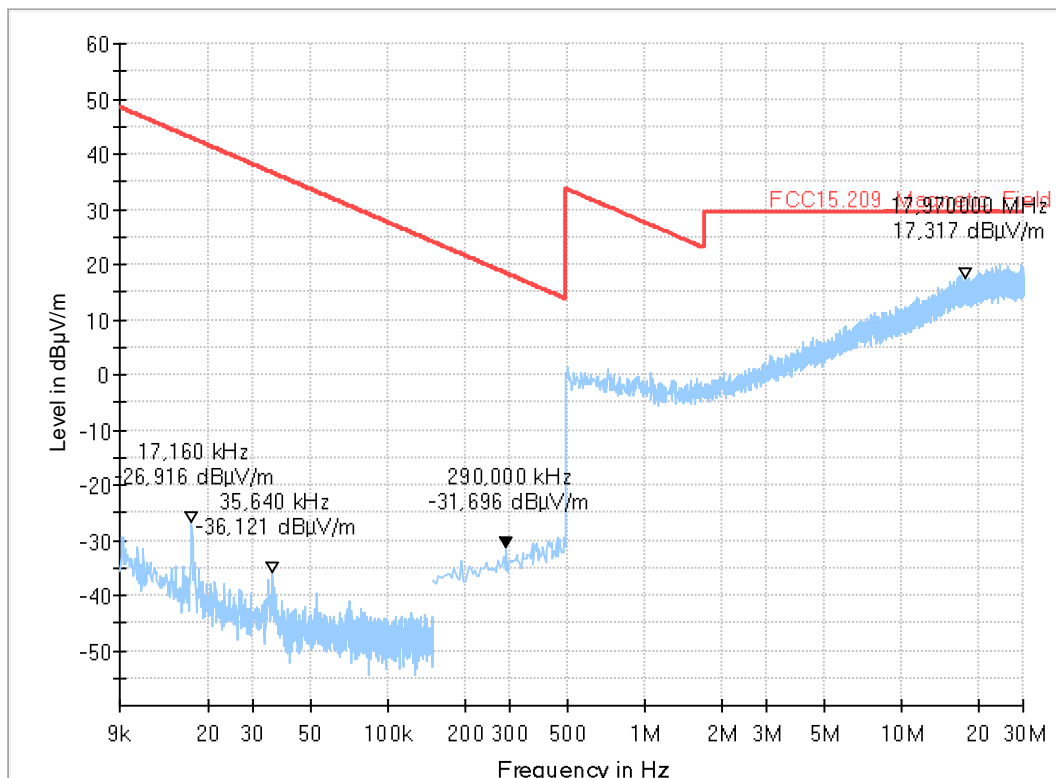
### Common Information

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 :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

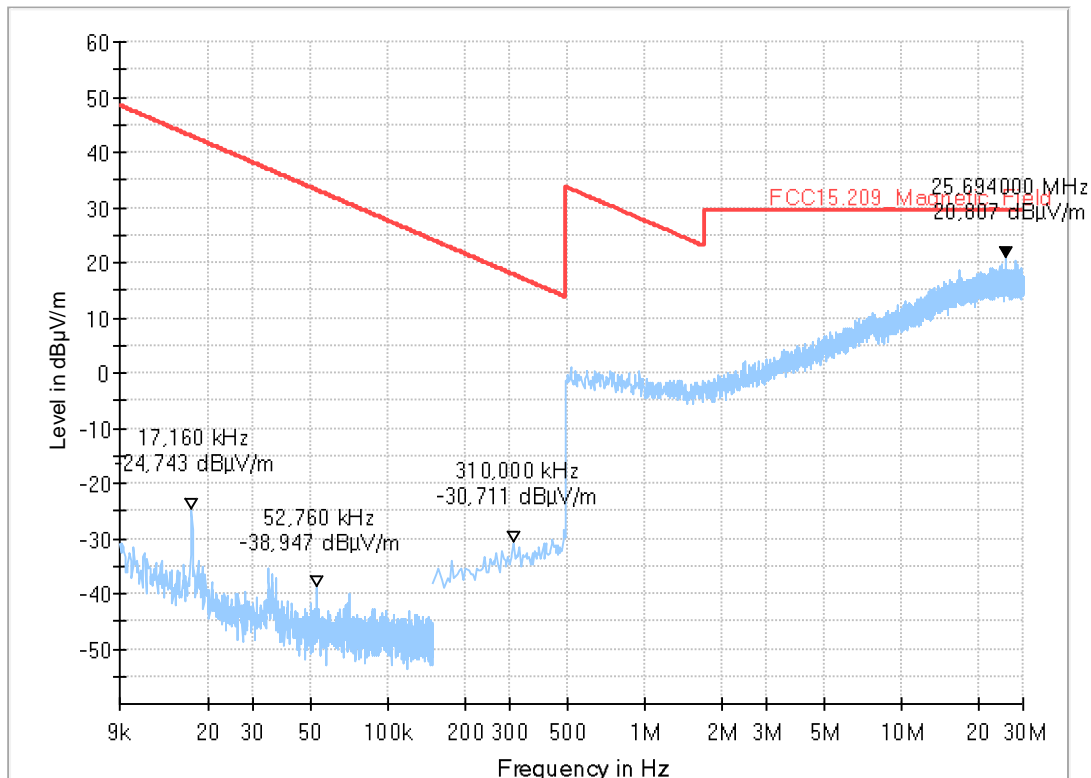
Test Description: Magnetic Field Strength Measurement related to 30/300 m distance  
 Test Site Location: Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance  
 Version of Testsoftware: EMC32 V10.50.0  
 Distance correction: used accord. table, pls. see test report  
 Technical Data: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

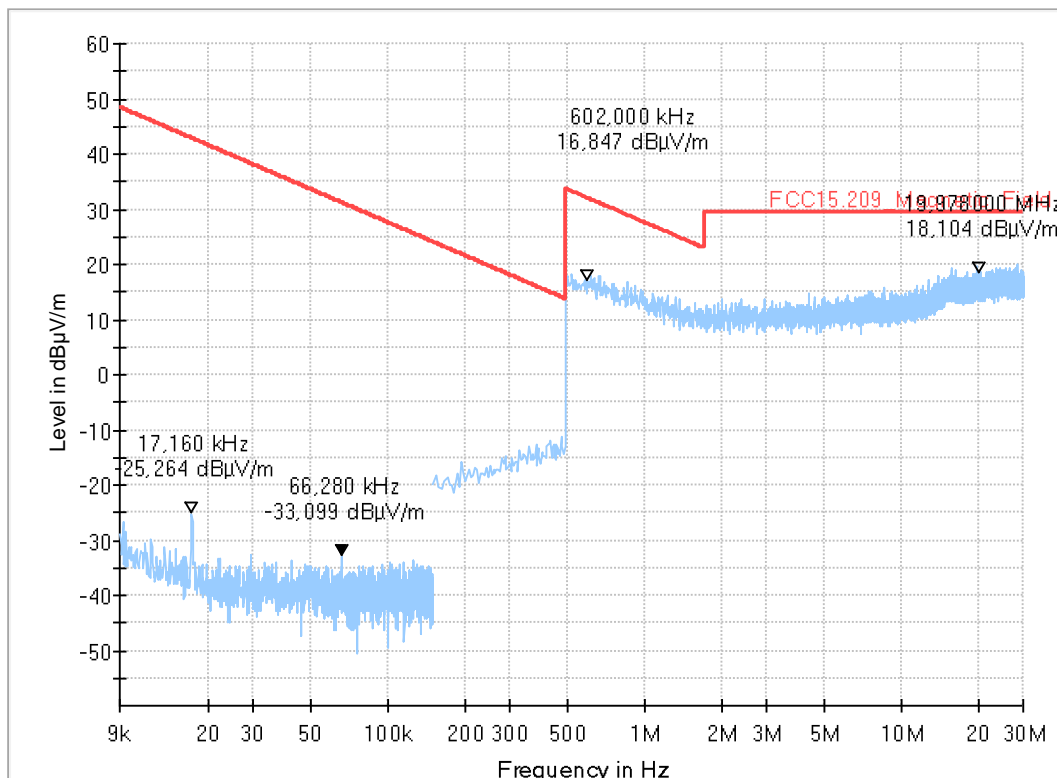
### Common Information

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 :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

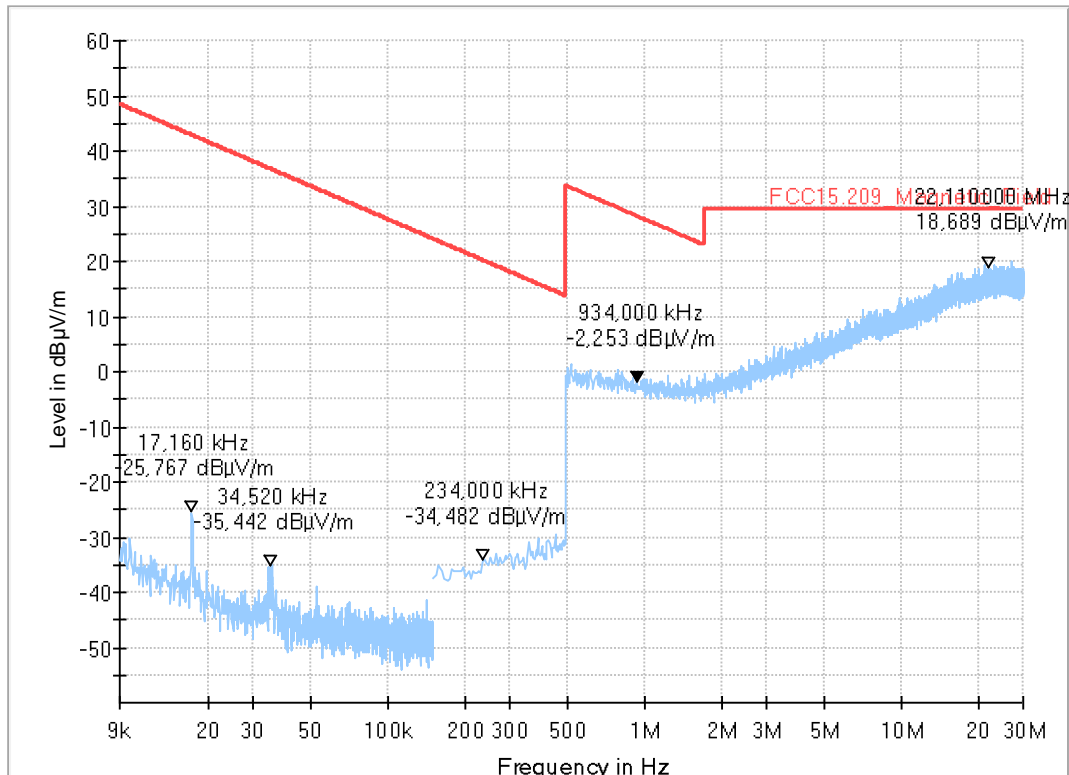
### Common Information

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

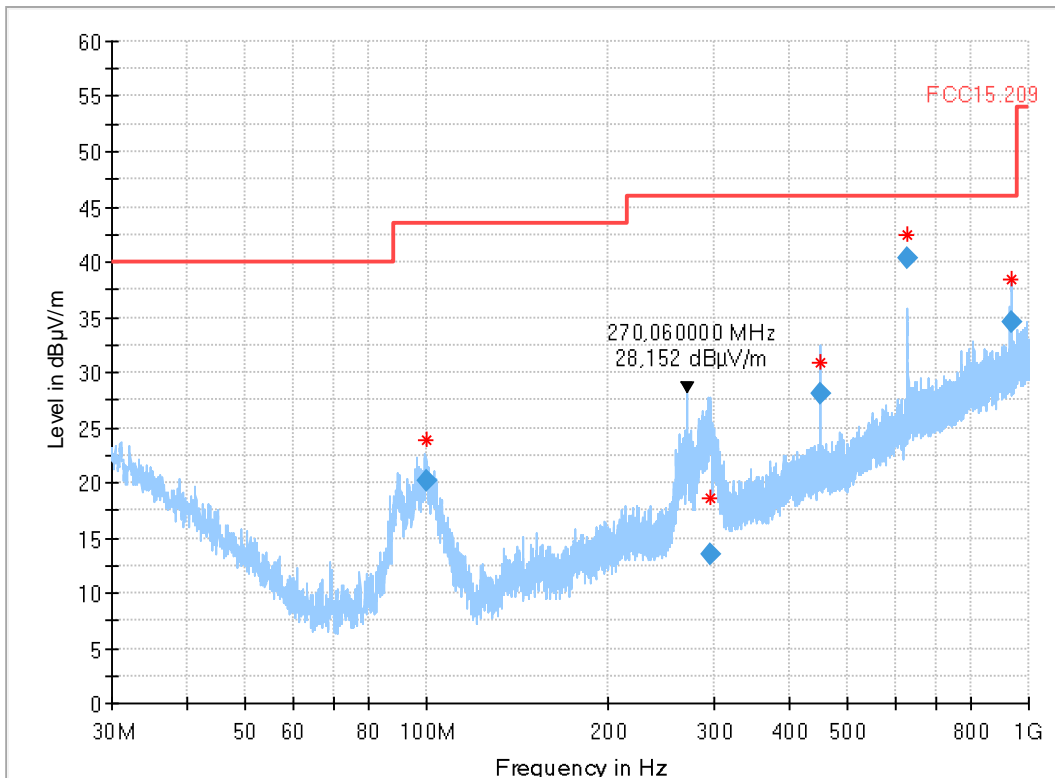
#### Common Information

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\_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 (h)	Height (t)	Pol	Azimuth (h)	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

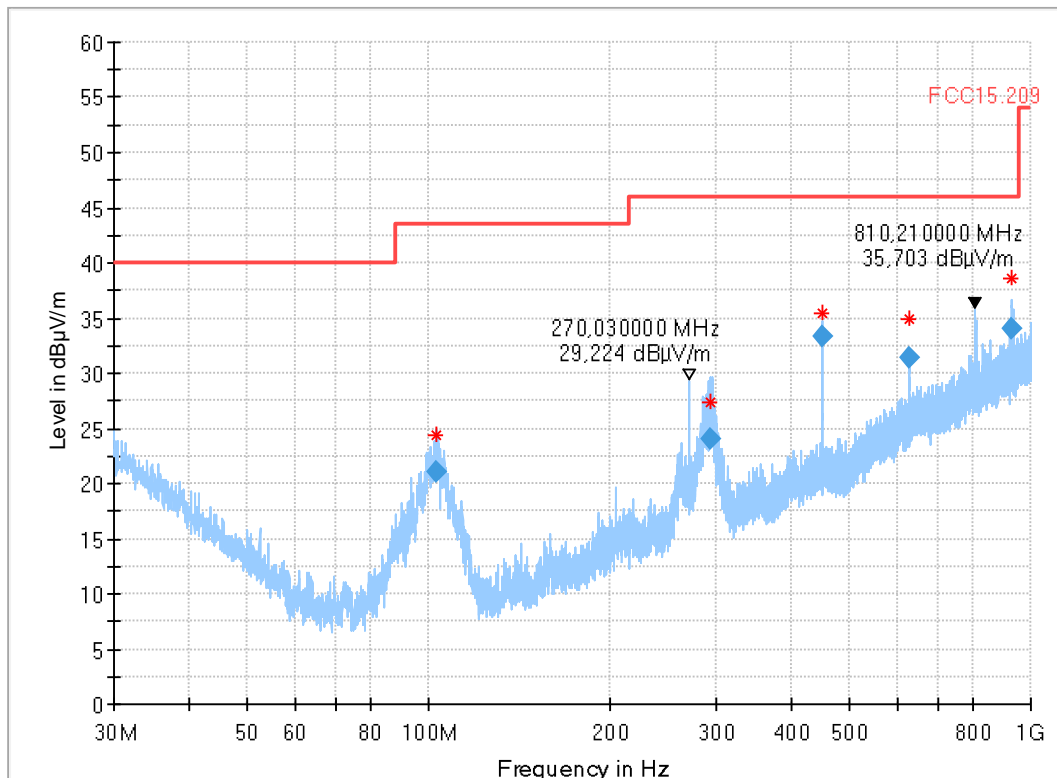
#### Common Information

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)	Margi n	Meas. Time (ms)	Bandwidt h	Heigh t	Pol	Azimut h	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

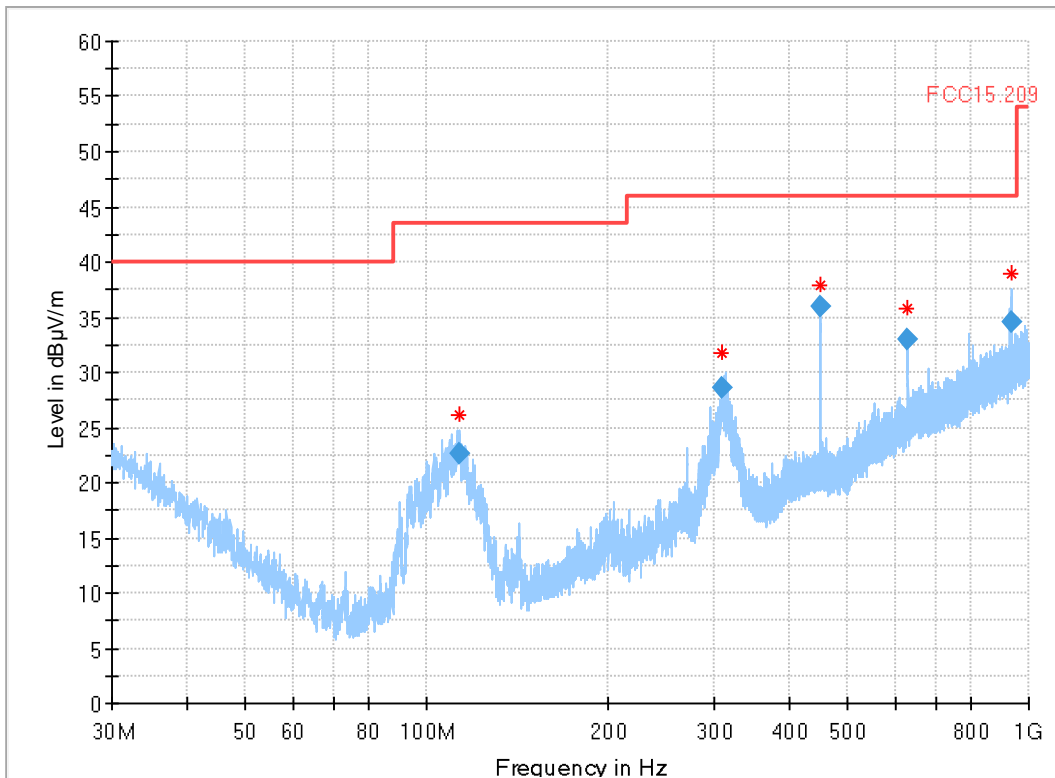
#### Common Information

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\_Postion : 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	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

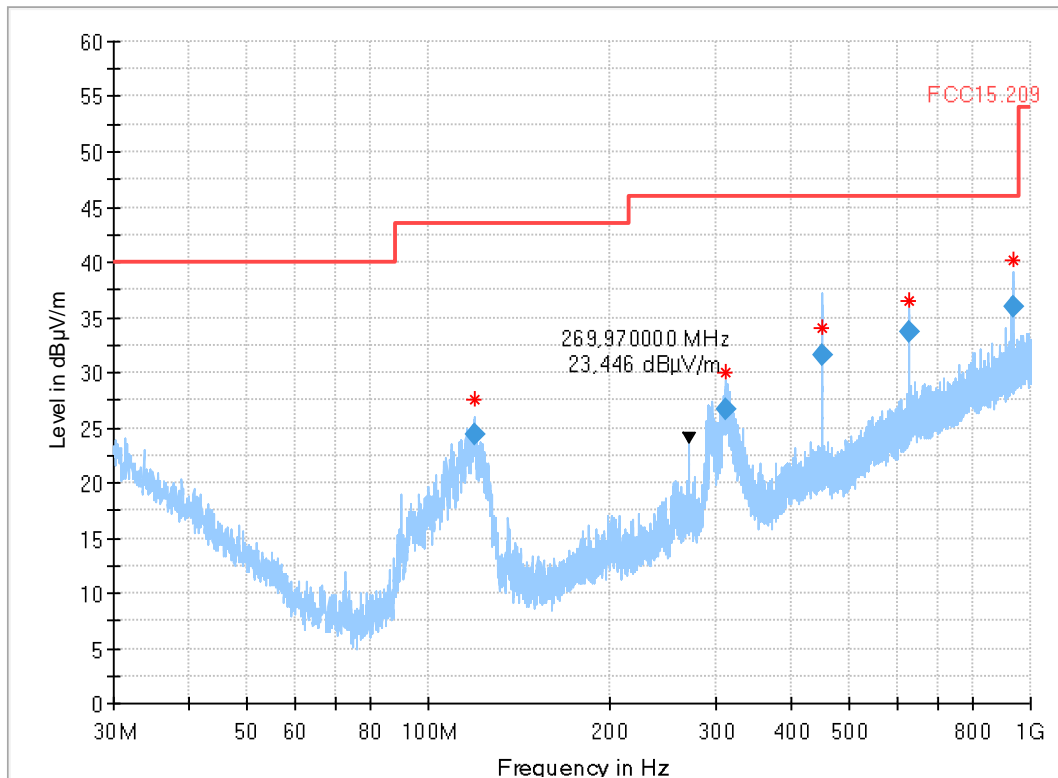
#### Common Information

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	Height	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

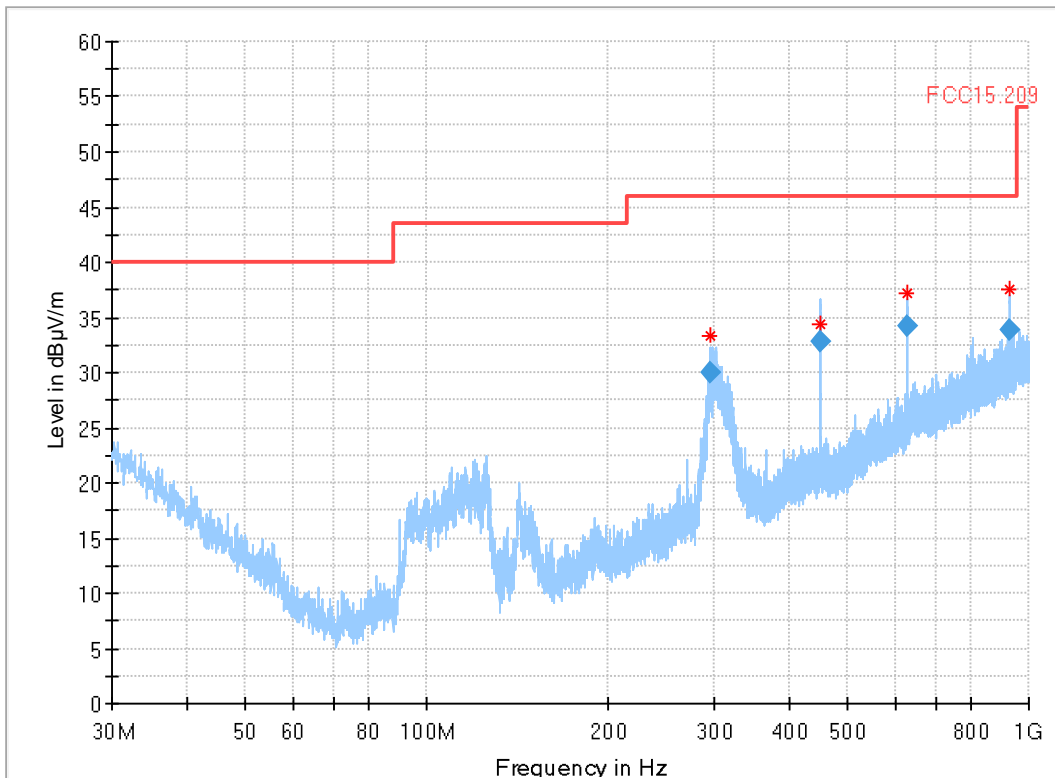
#### Common Information

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

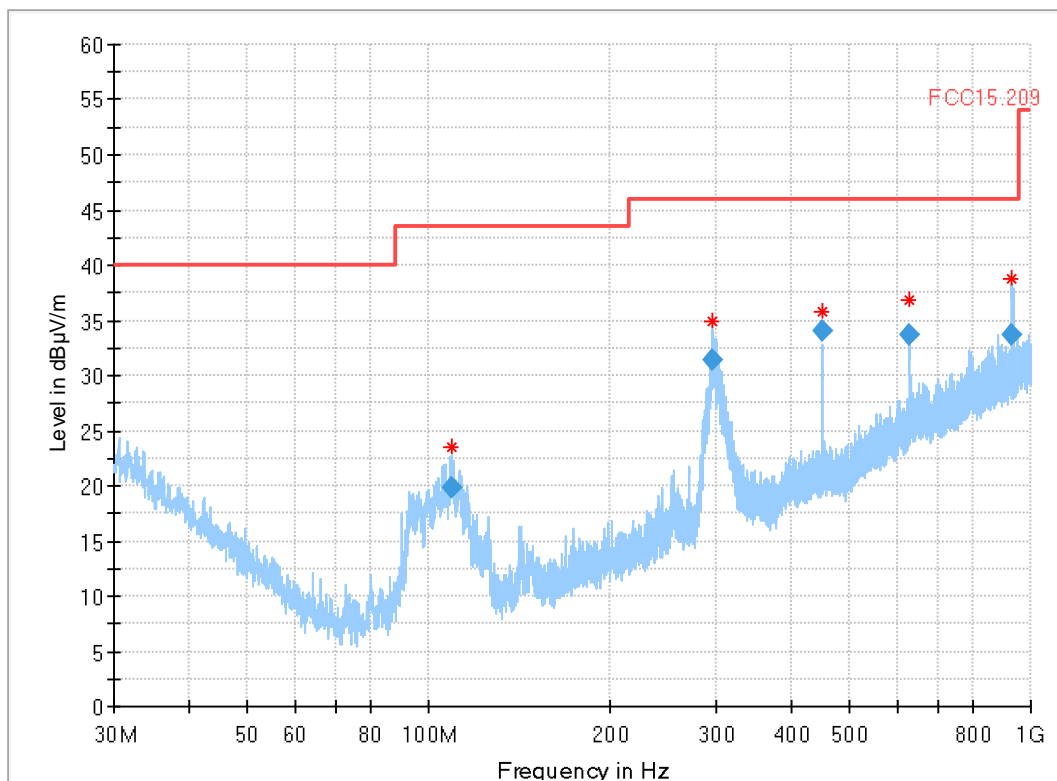
#### Common Information

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)	PoI	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

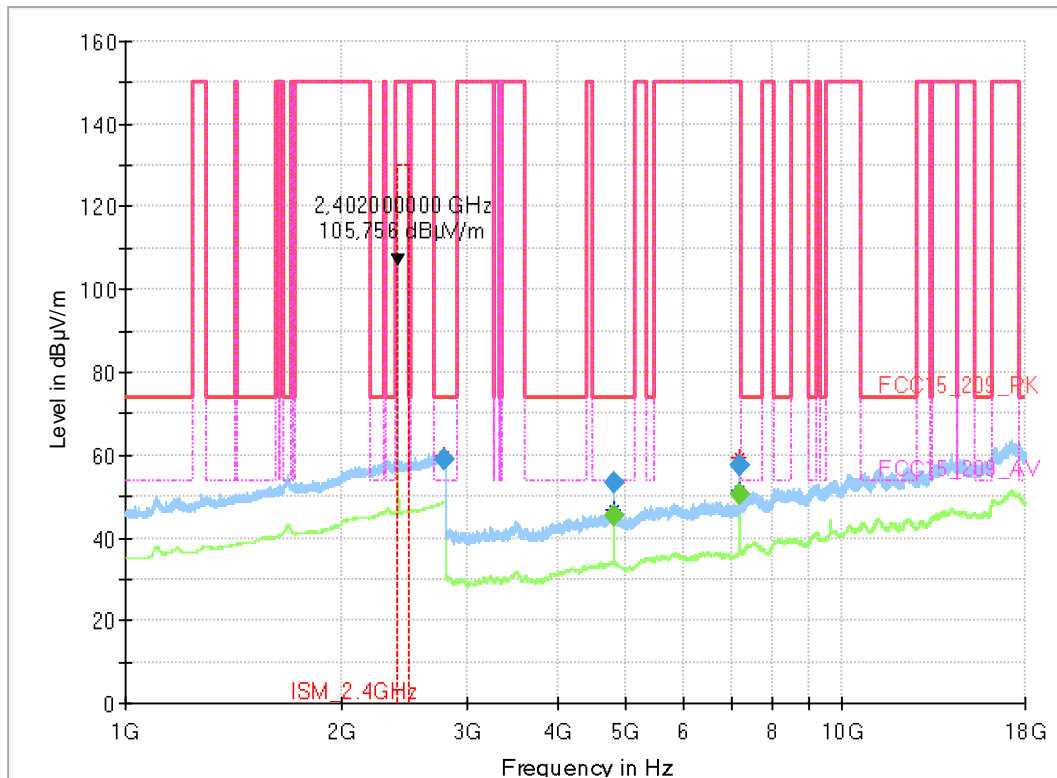
## Common Information

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



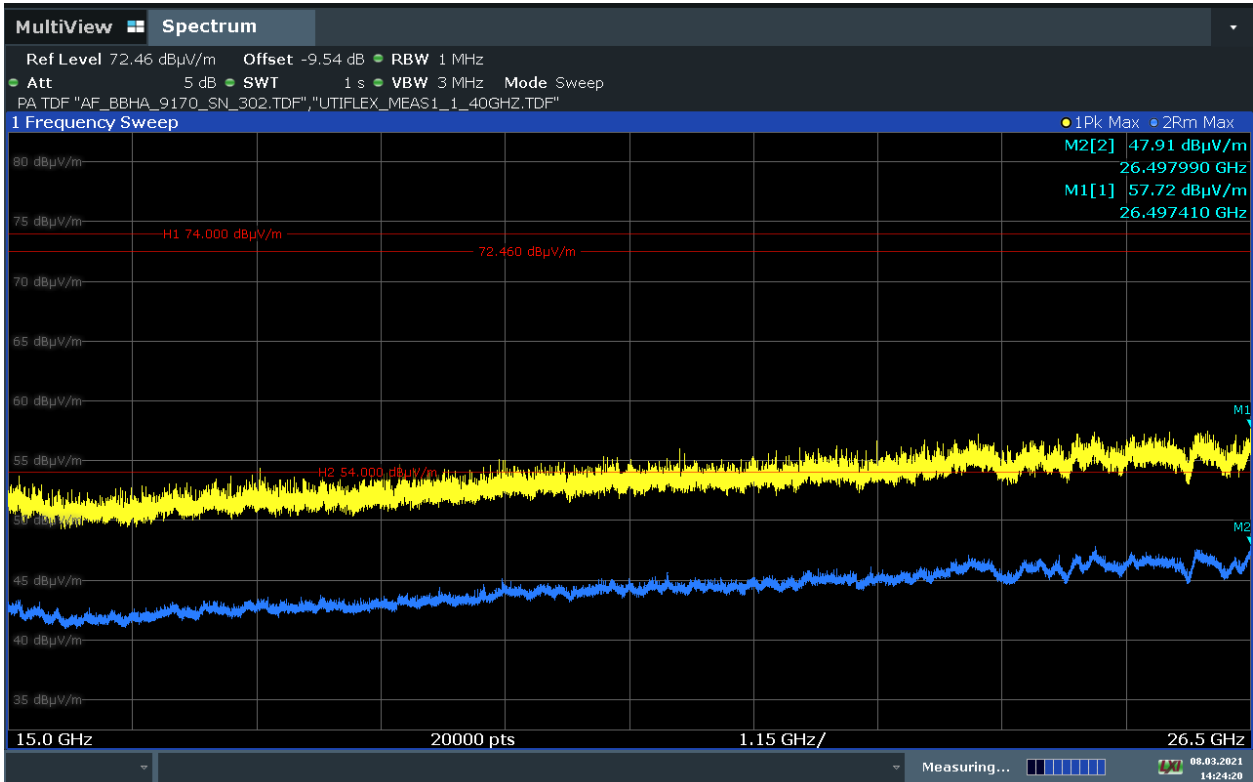
# 4.01b\_BT\_LE\_low

## 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

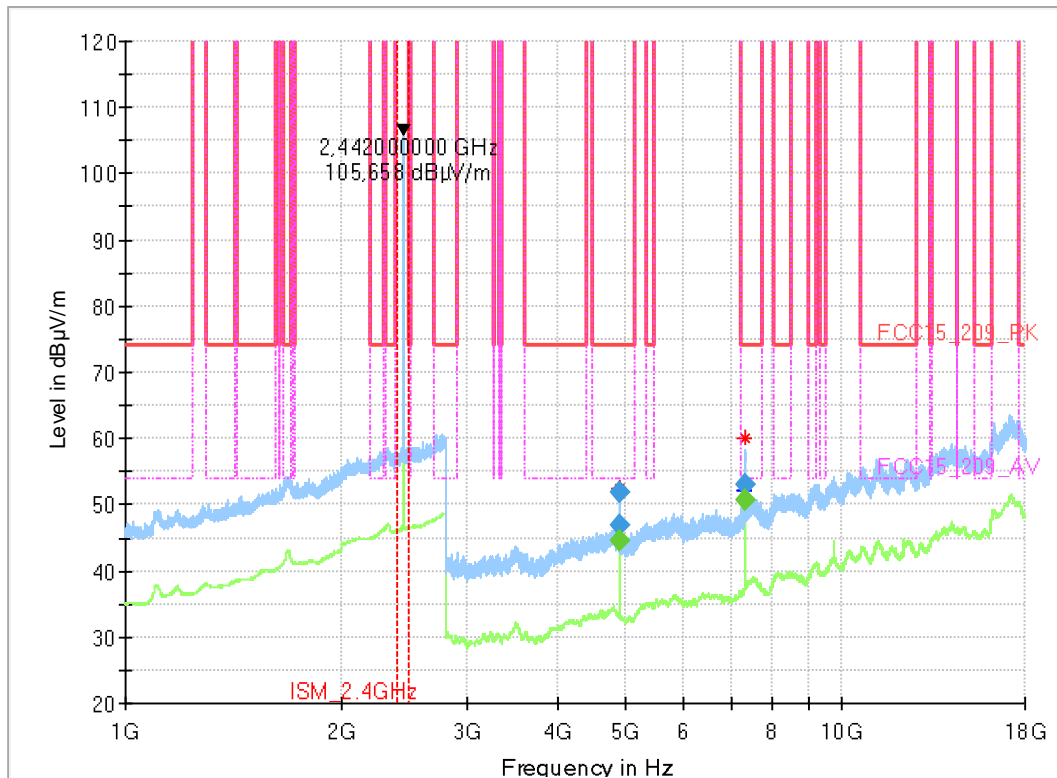
## 4.02a\_BT\_LE\_mid

### 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

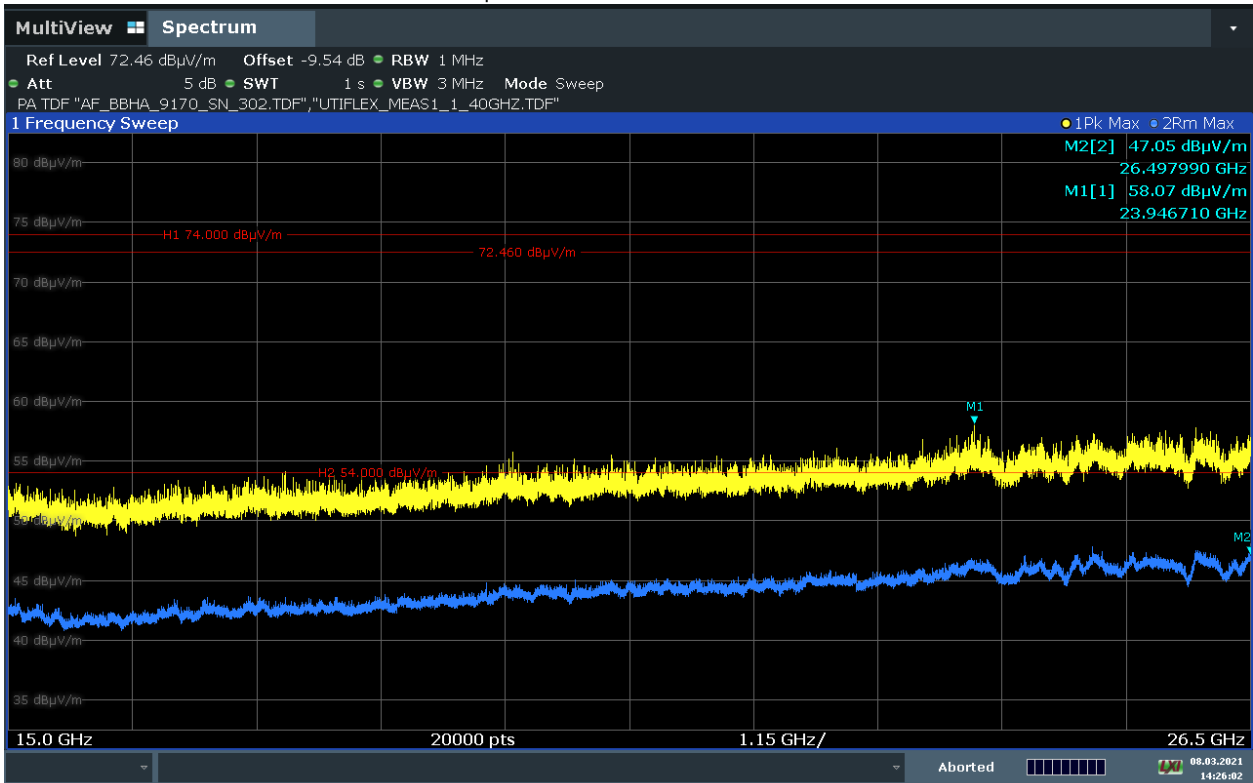
## Common Information

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

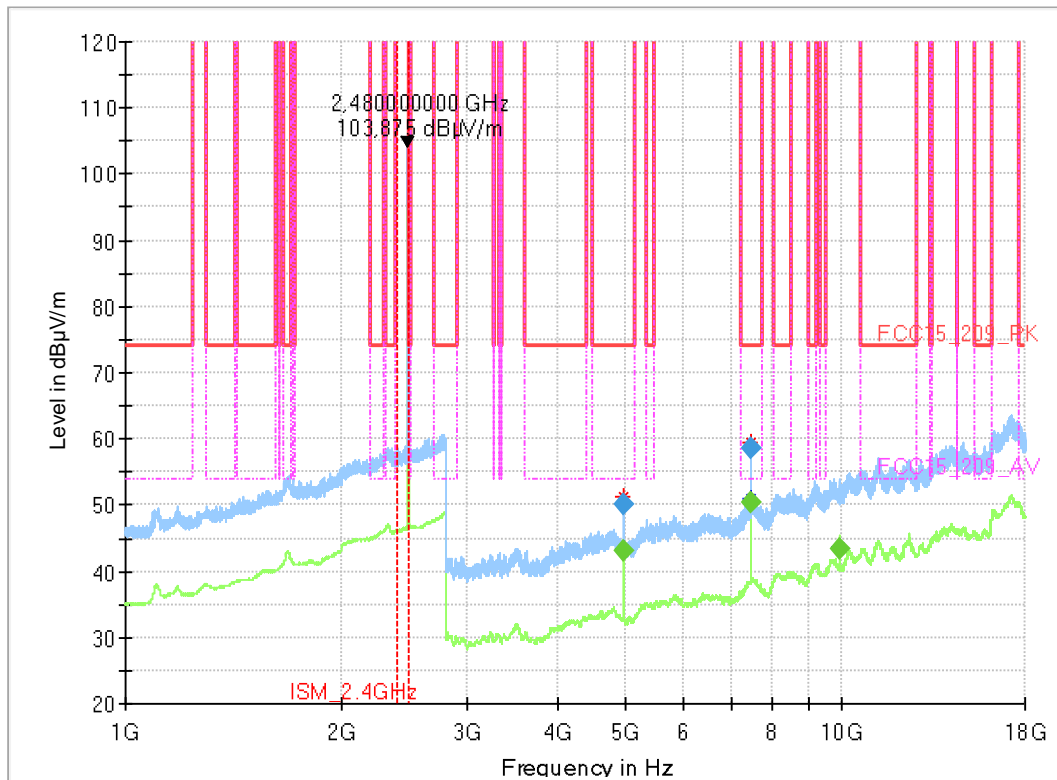
### Common Information

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 (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/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

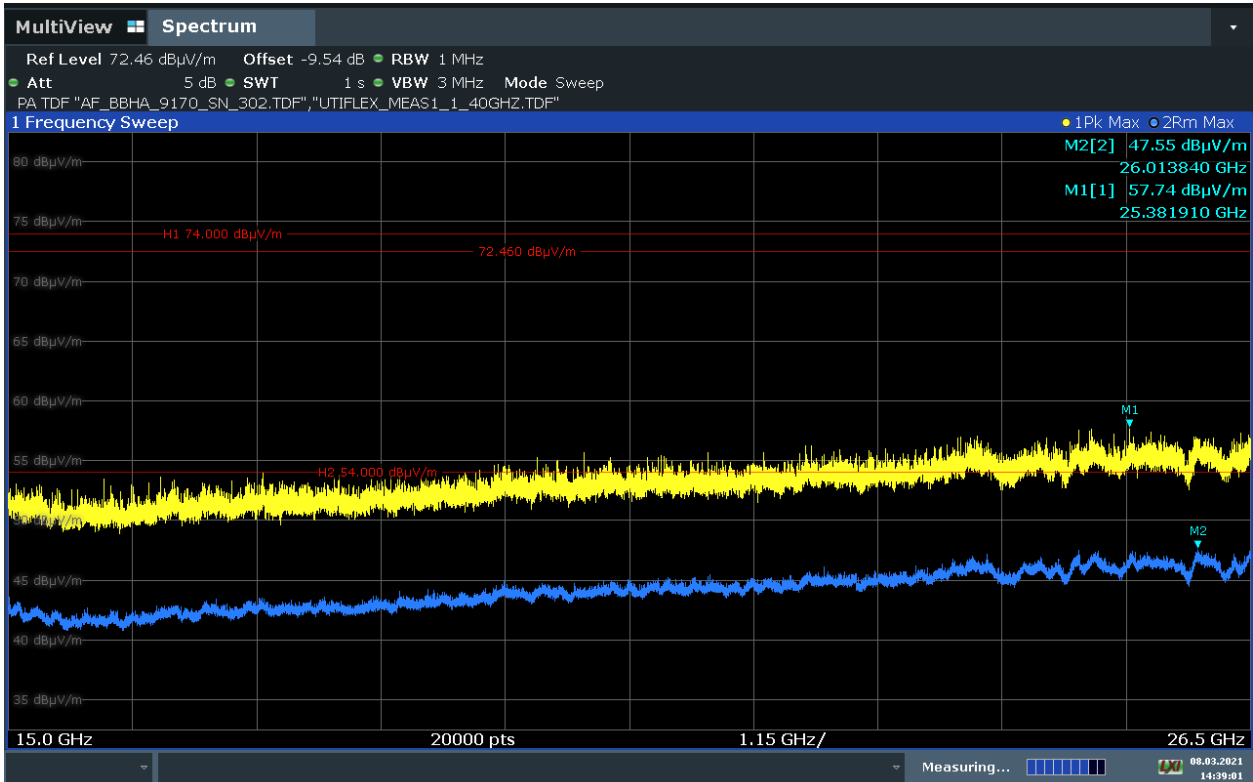
## Common Information

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

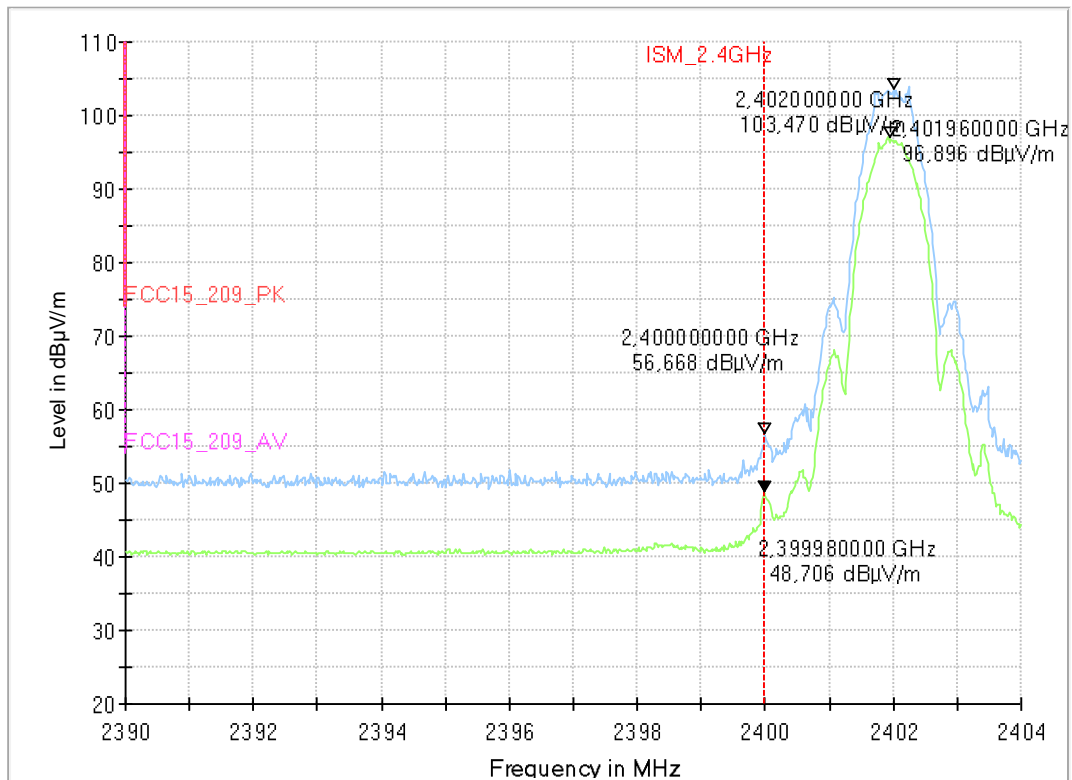
### Common Information

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

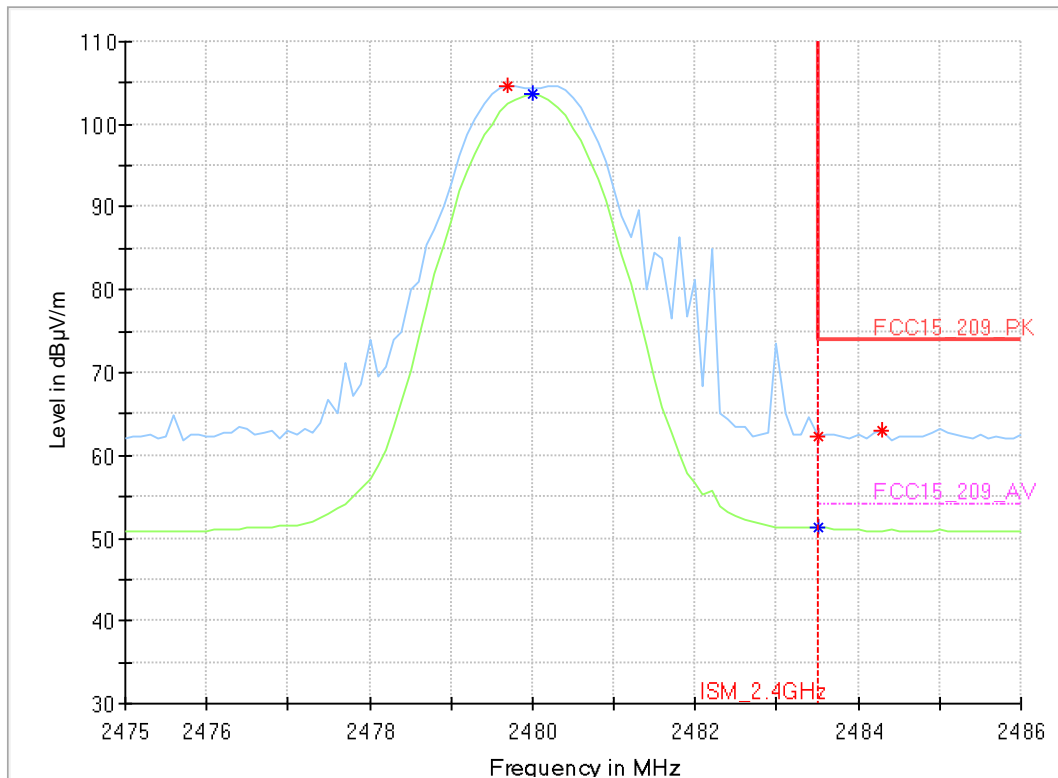
### Common Information

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

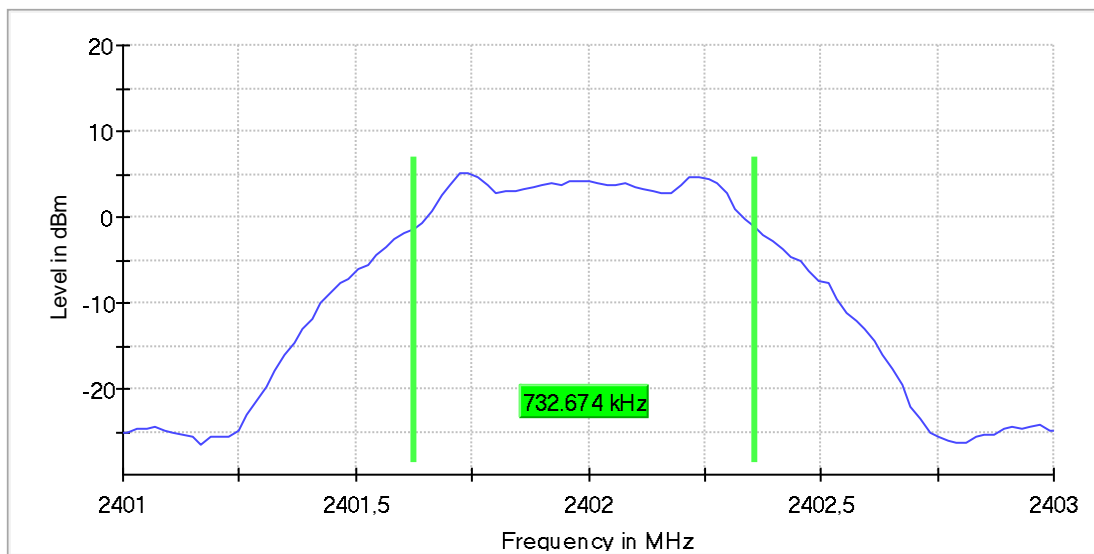
## Minimum Emission Bandwidth 6 dB (2402 MHz; BLE[GFSK] (5 dBm); 1 MHz)

### 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
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
Preamp	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

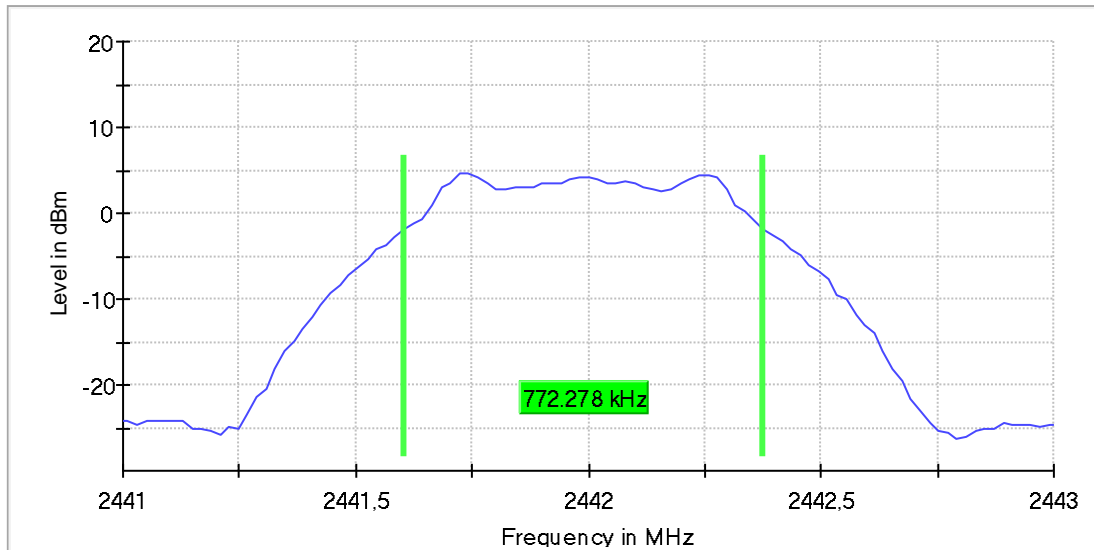
## Minimum Emission Bandwidth 6 dB (2442 MHz; BLE[GFSK] (5 dBm); 1 MHz)

### 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
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	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.34 dB	0.50 dB

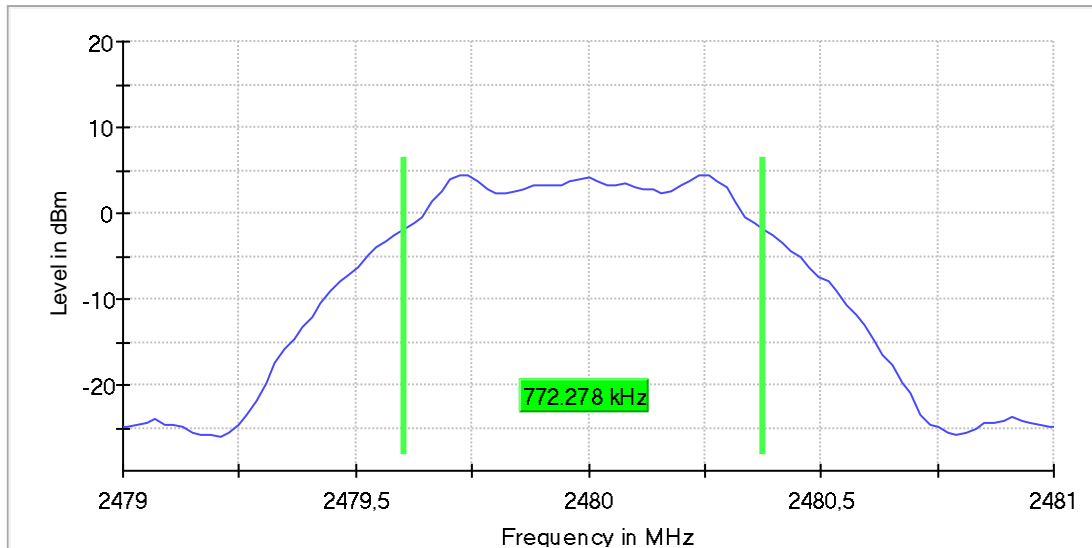
## Minimum Emission Bandwidth 6 dB (2480 MHz; BLE[GFSK] (5 dBm); 1 MHz)

### 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



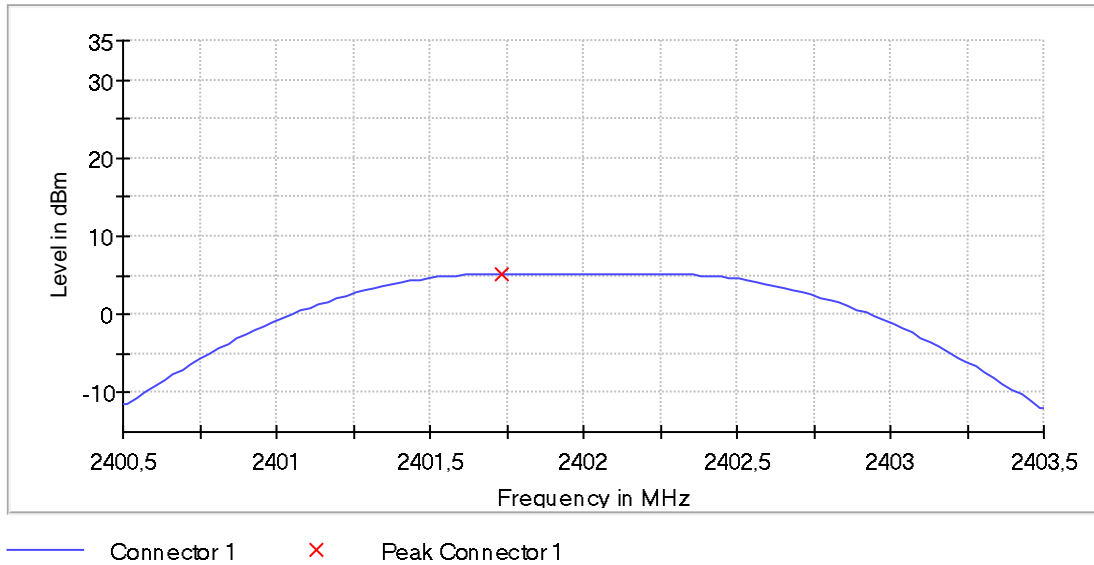
### Measurement

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



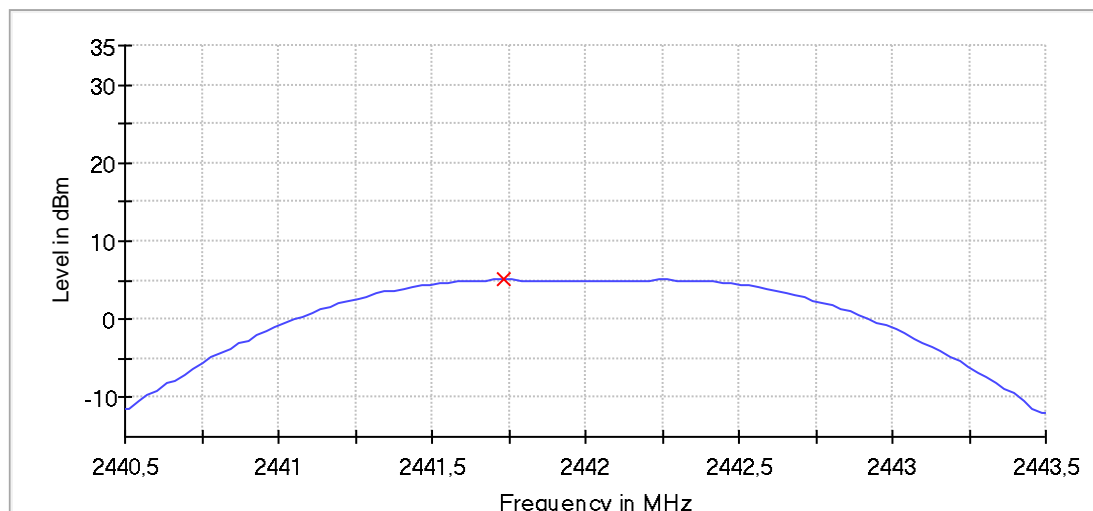
### Measurement

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

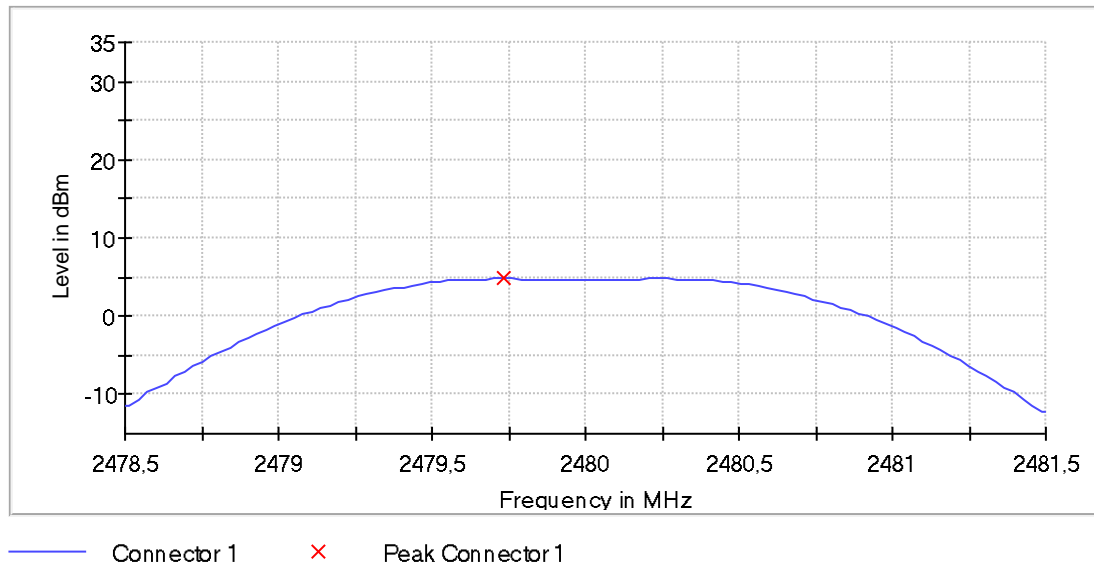
Setting	Instrument Value	Target Value
Start Frequency	2.44050 GHz	2.44050 GHz
Stop Frequency	2.44350 GHz	2.44350 GHz
Span	3.000 MHz	3.000 MHz
RBW	1.000 MHz	>= 772.279 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 101
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	20.000 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



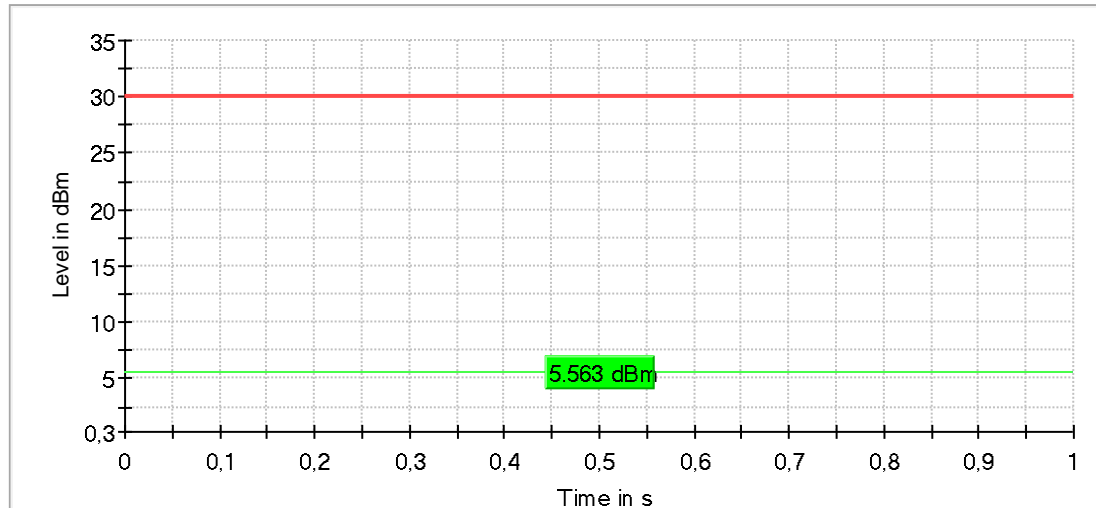
### Measurement

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
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	0.09 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

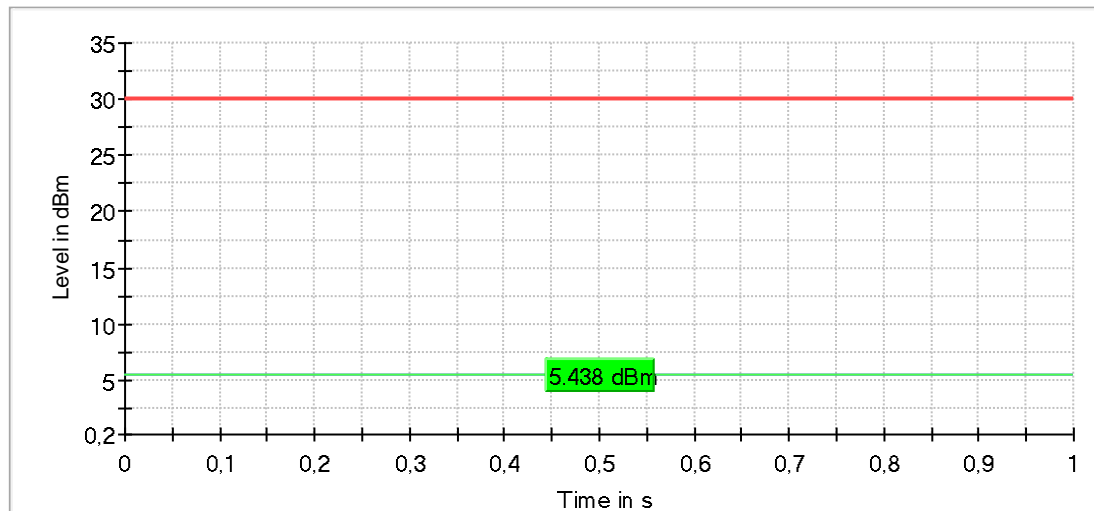
### OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 $\mu$ s	1.000 $\mu$ s

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

### Result

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



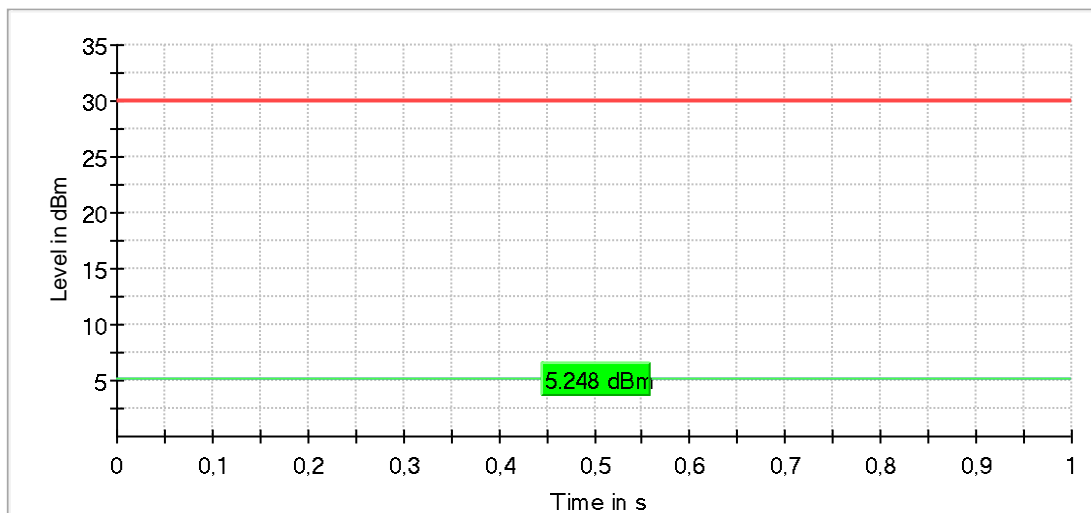
### OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 $\mu$ s	1.000 $\mu$ s

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

### Result

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



— Gated Trace — Overall — Limit

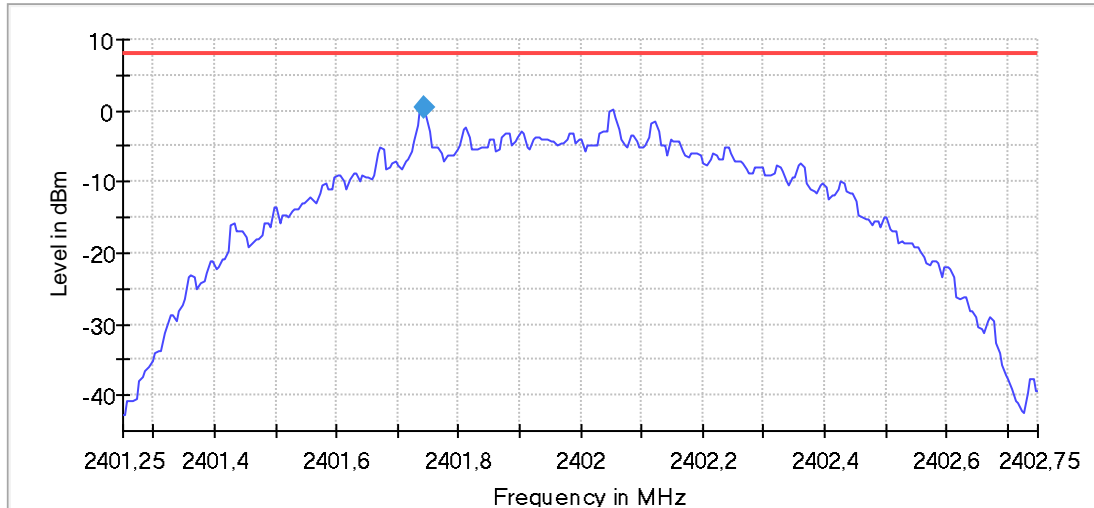
### OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 $\mu$ s	1.000 $\mu$ 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



— Limit    — Sum Level    ◆ PSD

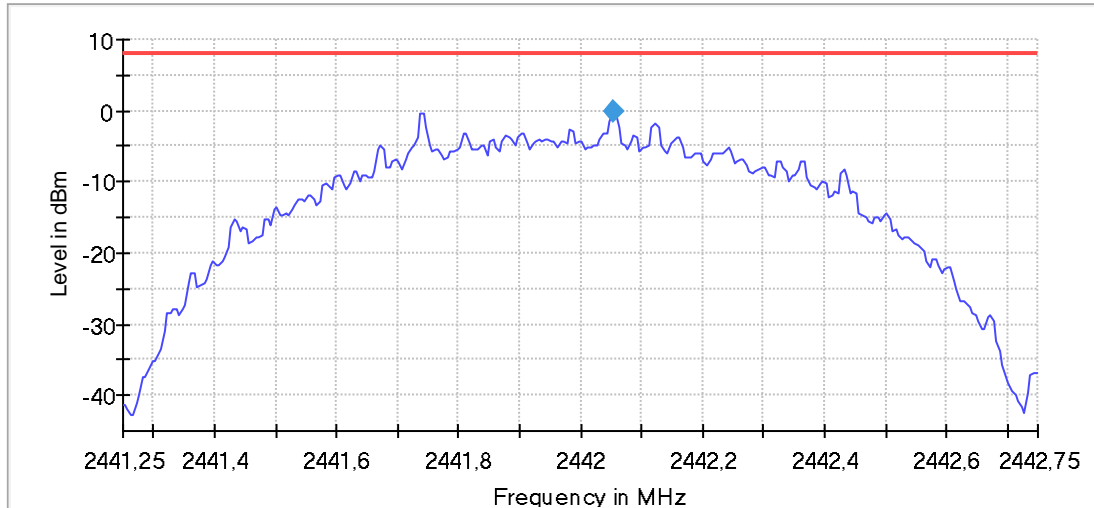
### Measurement

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



— Limit    — Sum Level    ◆ PSD

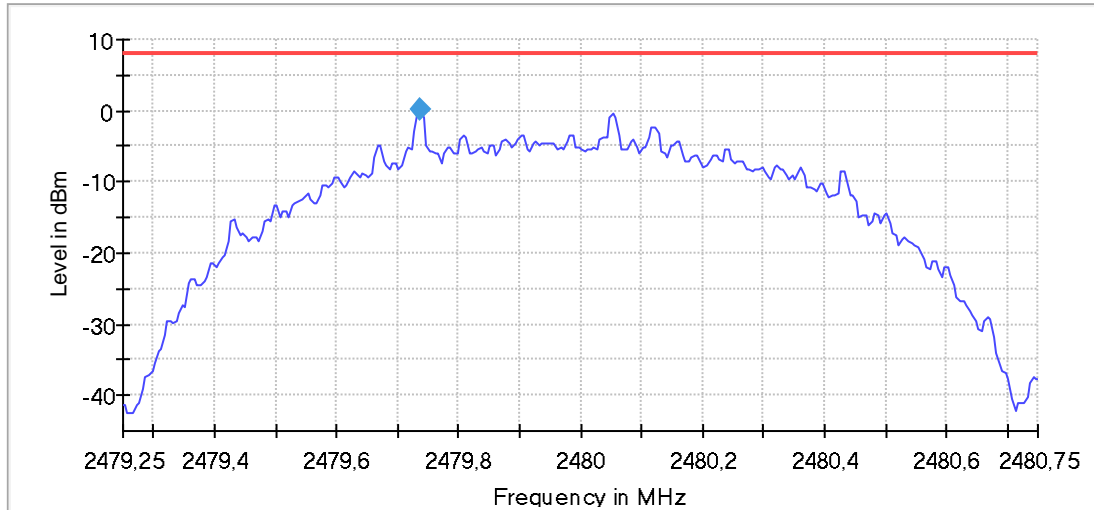
### Measurement

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



— Limit    — Sum Level    ◆ PSD

### 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

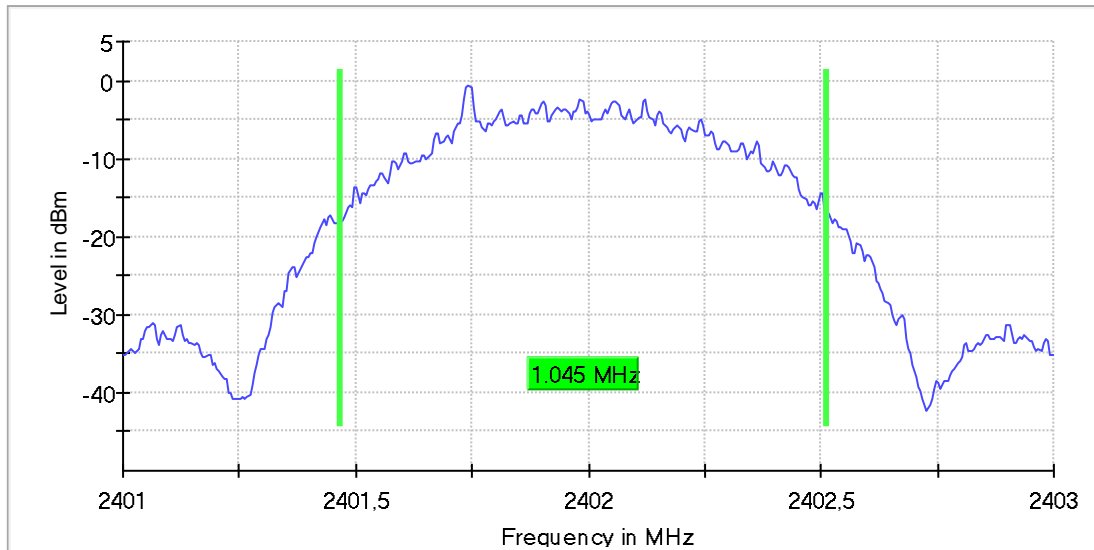
## Occupied Channel Bandwidth 99% (2402 MHz; BLE[GFSK] (5 dBm); 1 MHz)

### 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 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
Preamp	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



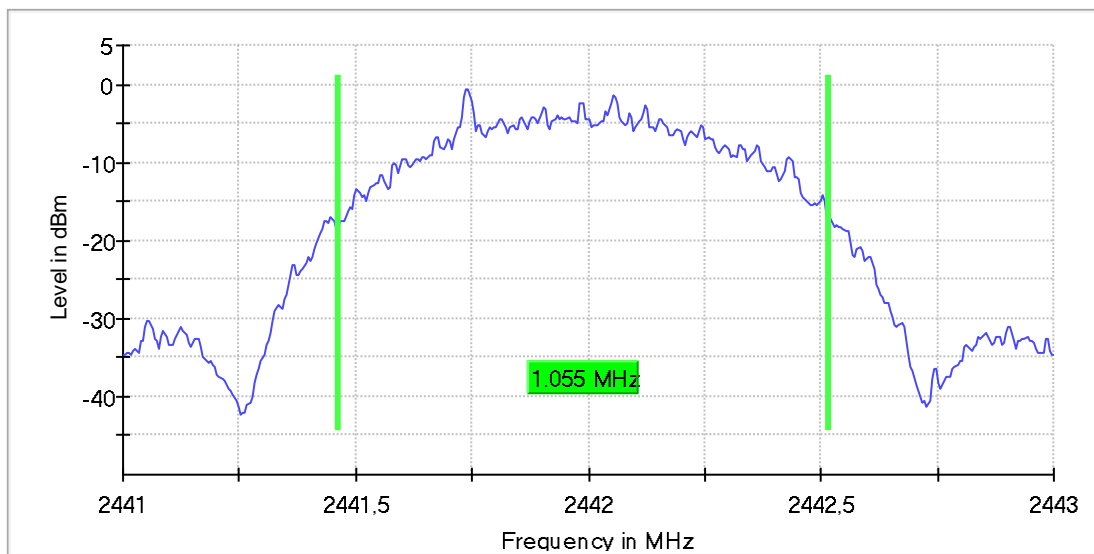
## Occupied Channel Bandwidth 99% (2442 MHz; BLE[GFSK] (5 dBm); 1 MHz)

### 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
Preamp	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

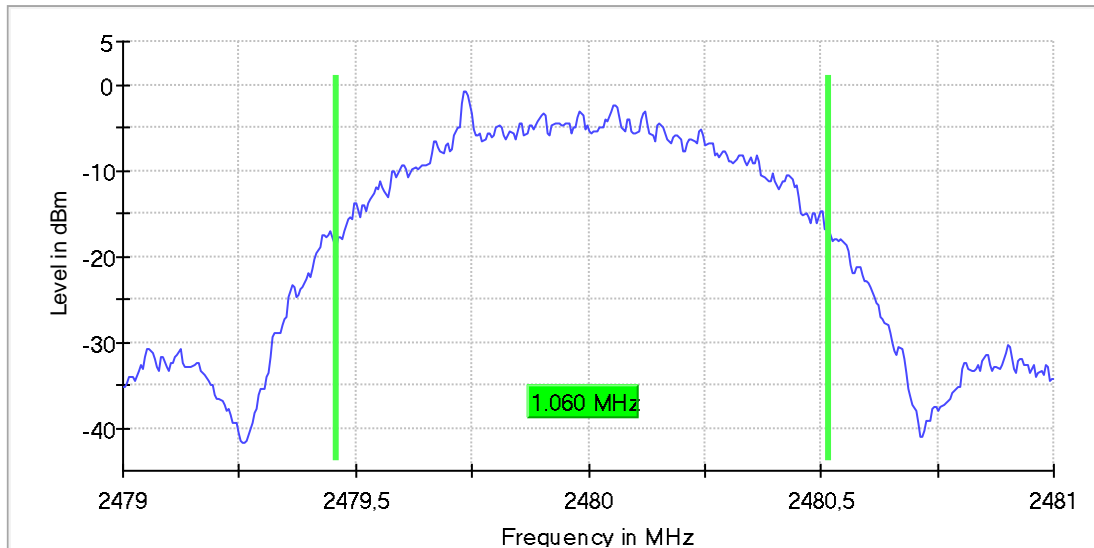
## Occupied Channel Bandwidth 99% (2480 MHz; BLE[GFSK] (5 dBm); 1 MHz)

### 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
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
Preamp	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

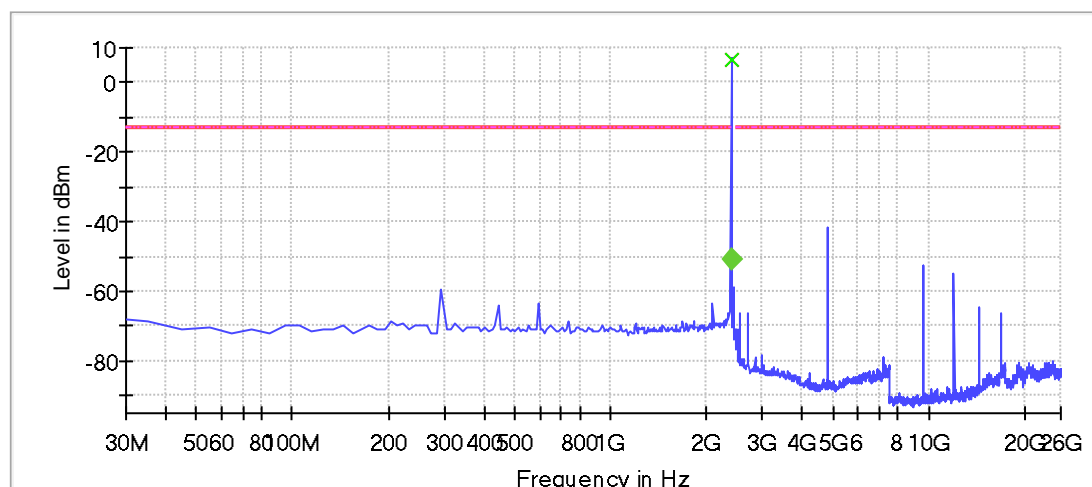
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2399.958664	6.5	-50.9	-12.8	38.1	PASS

### Pre Measurements

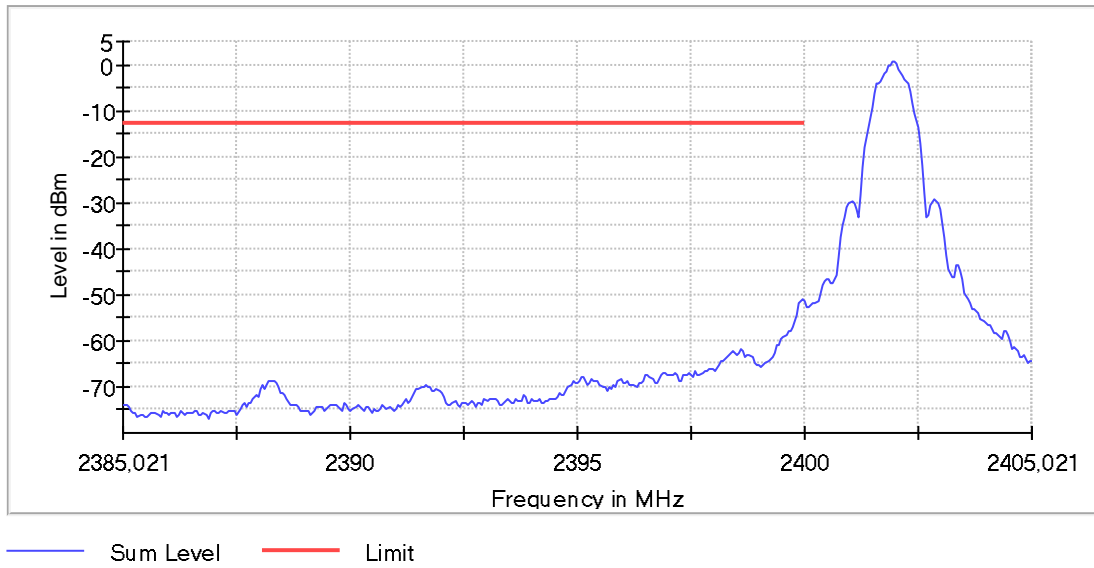
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2395.021008	6.5	-19.4	-12.8
4807.166065	-41.8	29.0	-12.8
9604.412133	-52.5	39.7	-12.8
12013.029431	-54.9	42.1	-12.8
293.886555	-59.3	46.4	-12.8
2385.063025	-59.6	46.8	-12.8
592.626050	-63.2	50.4	-12.8
2096.281513	-63.6	50.7	-12.8
443.256303	-64.0	51.2	-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



— Limit — Sum Level — Threshold x Critical  
x Final Critical ◆ Fail ◆ Pass



### 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

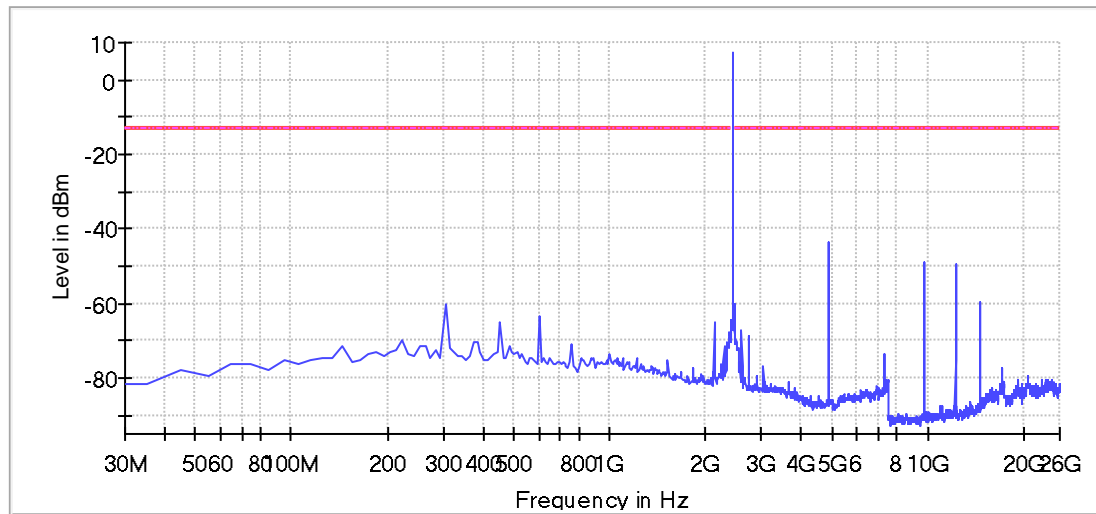
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

### 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



— Limit    — Sum Level    - - - Threshold    × Critical    × Final 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	-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	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

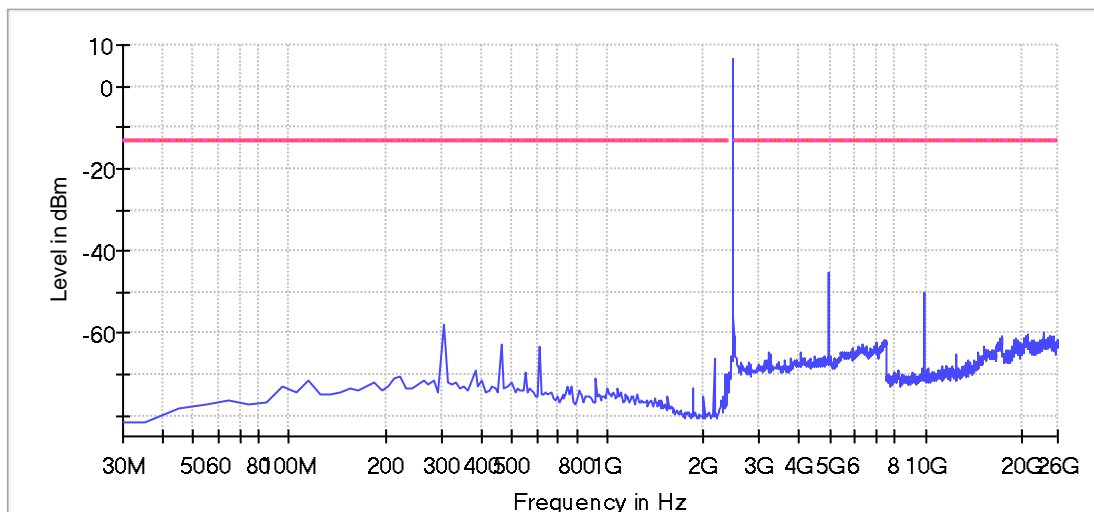
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

### 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



— Limit    — Sum Level    - - - Threshold    × Critical    × Final 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	-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