

Annex 202 – Test Results

No. 1-2922-26-01-03_TR1-A202-R01

July 22, 2026

Description

Test Result Diagrams

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authorized by

Salih Öztan

Lab Manager
Radio Labs

1 Measurement diagrams

2.01_BLE_1M_low_standing

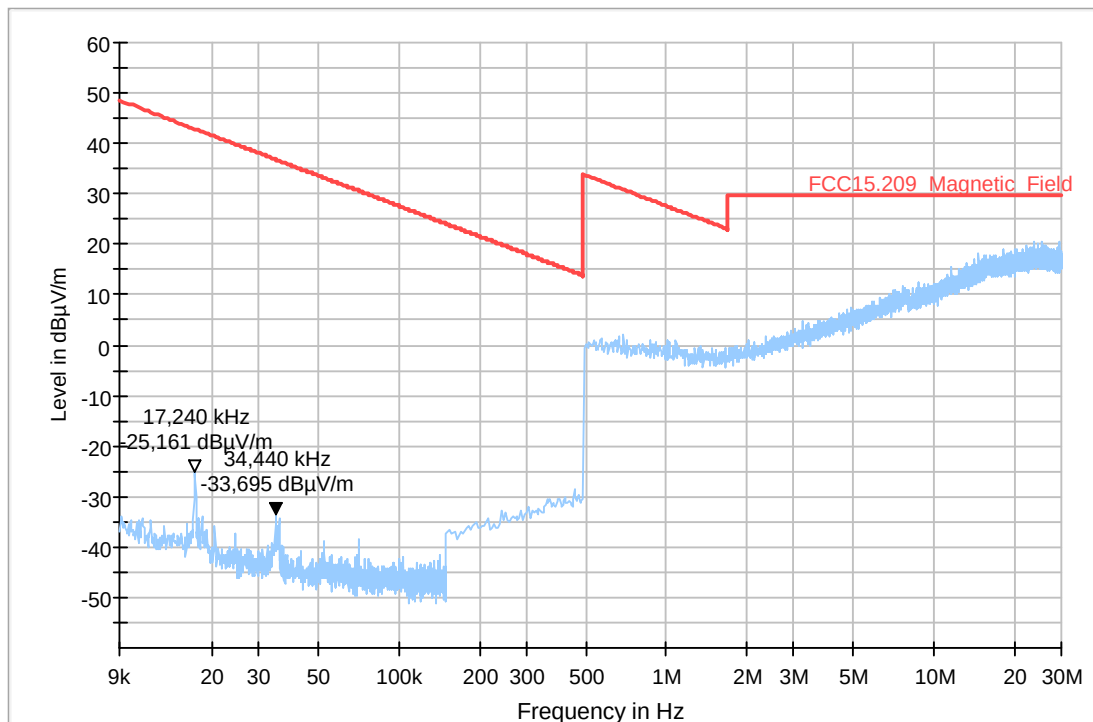
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC3) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
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:	MNu
Operating Mode:	BLE GFSK 1Mbps, 2402MHz, P:0
Power during tests:	Internal Battery 3.6V
Environmental Conditions:	Humidity: 62 % rH; Temperature: 22 °C
EUT Setup:	2
Verdict:	Passed

EUT Information

Sample:	57.819
Power Supply :	Internal battery

Full Spectrum



2.02_BLE_1M_low_lying

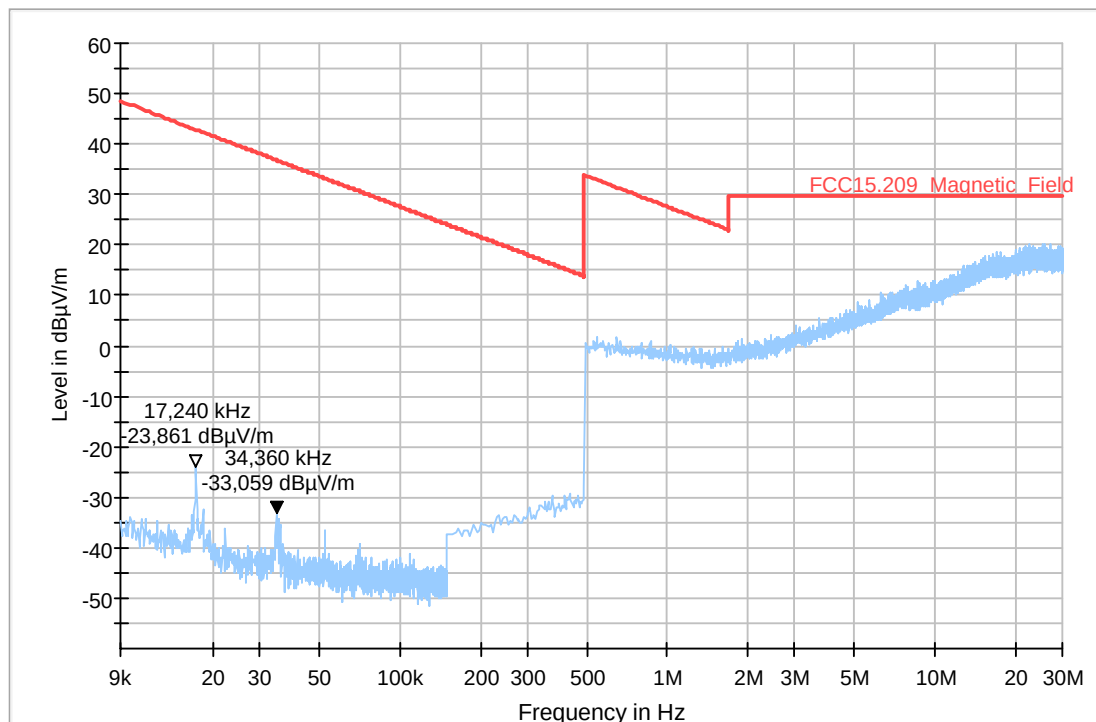
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC3) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
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:	MNu
Operating Mode:	BLE GFSK 1Mbps, 2402MHz, P:0
Power during tests:	Internal Battery 3.6V
Environmental Conditions:	Humidity: 62 % rH; Temperature: 22 °C
EUT Setup:	2
Verdict:	Passed

EUT Information

Sample:	57.819
Power Supply :	Internal battery

Full Spectrum



2.03_BLE_1M_mid_standing

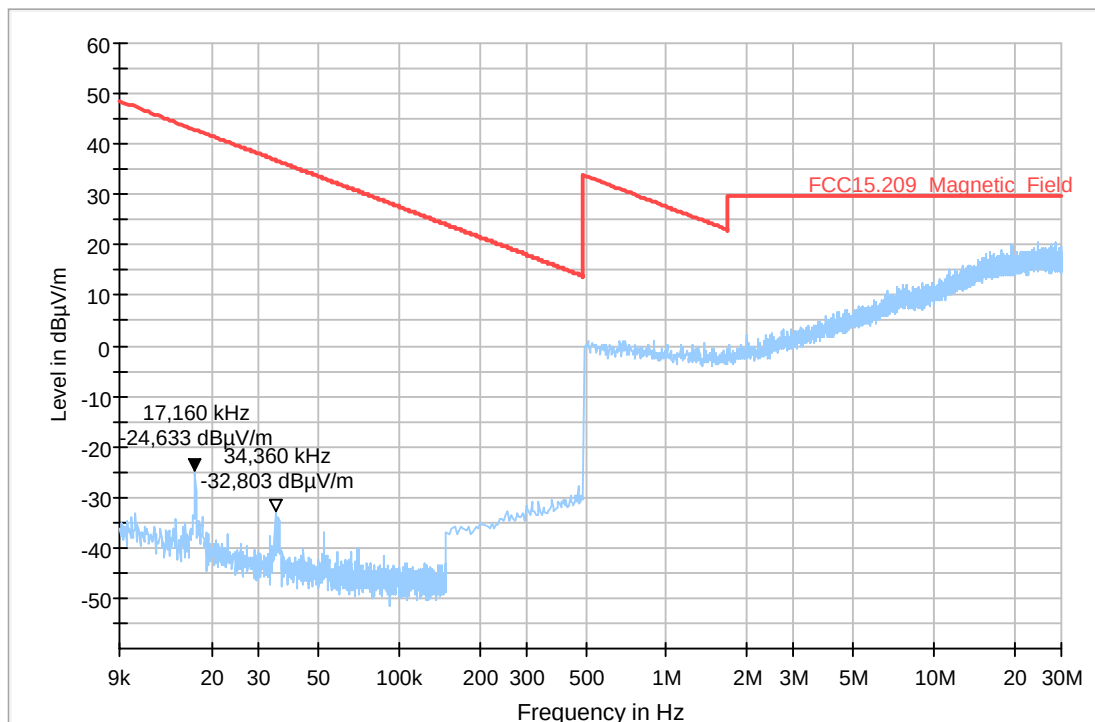
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC3) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
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:	MNu
Operating Mode:	BLE GFSK 1Mbps, 2440MHz, P:0
Power during tests:	Internal Battery 3.6V
Environmental Conditions:	Humidity: 62 % rH; Temperature: 22 °C
EUT Setup:	2
Verdict:	Passed

EUT Information

Sample:	57.819
Power Supply :	Internal battery

Full Spectrum



2.04_BLE_1M_mid_lying

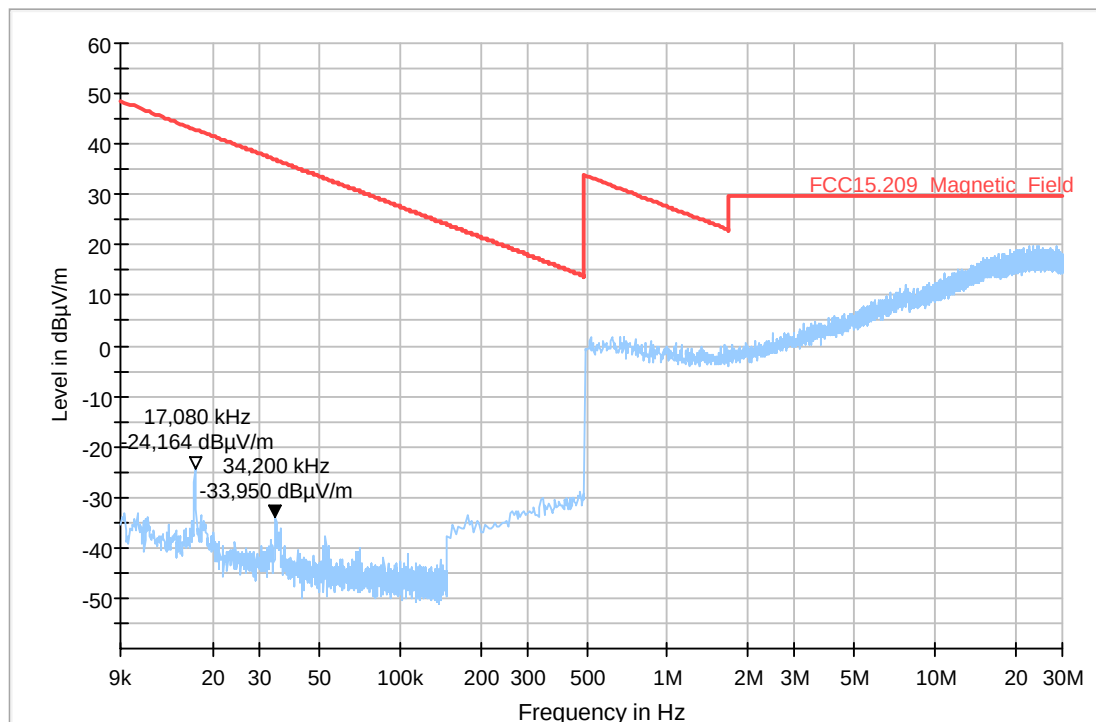
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC3) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
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:	MNu
Operating Mode:	BLE GFSK 1Mbps, 2440MHz, P:0
Power during tests:	Internal Battery 3.6V
Environmental Conditions:	Humidity: 62 % rH; Temperature: 22 °C
EUT Setup:	2
Verdict:	Passed

EUT Information

Sample:	57.819
Power Supply :	Internal battery

Full Spectrum



2.05_BLE_1M_high_standing

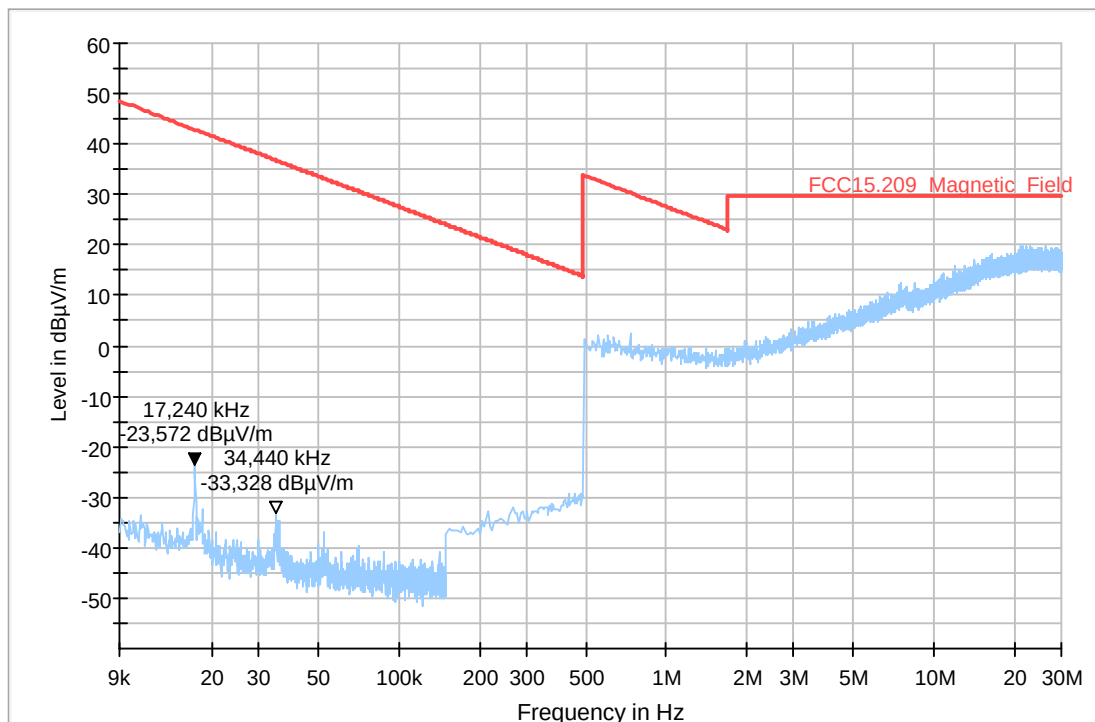
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC3) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
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:	MNu
Operating Mode:	BLE GFSK 1Mbps, 2480MHz, P:0
Power during tests:	Internal Battery 3.6V
Environmental Conditions:	Humidity: 62 % rH; Temperature: 22 °C
EUT Setup:	2
Verdict:	Passed

EUT Information

Sample:	57.819
Power Supply :	Internal battery

Full Spectrum



2.06_BLE_1M_high_lying

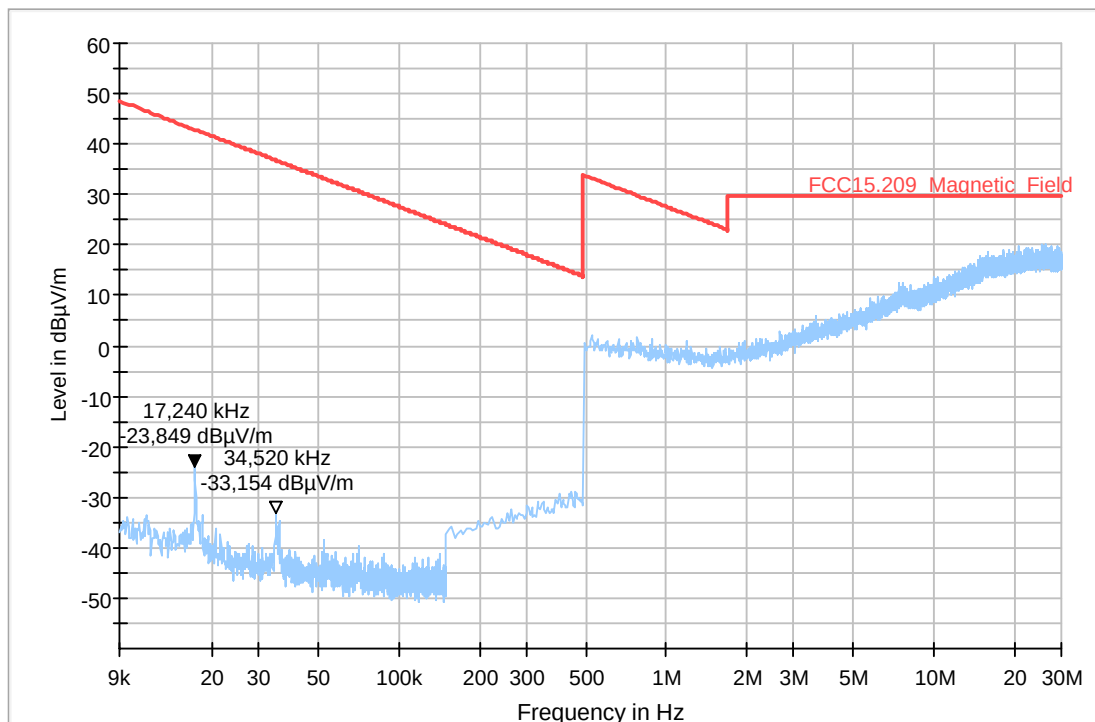
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC3) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
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:	MNu
Operating Mode:	BLE GFSK 1Mbps, 2480MHz, P:0
Power during tests:	Internal Battery 3.6V
Environmental Conditions:	Humidity: 62 % rH; Temperature: 22 °C
EUT Setup:	2
Verdict:	Passed

EUT Information

Sample:	57.819
Power Supply :	Internal battery

Full Spectrum



2.07_BLE_2M_low_standing

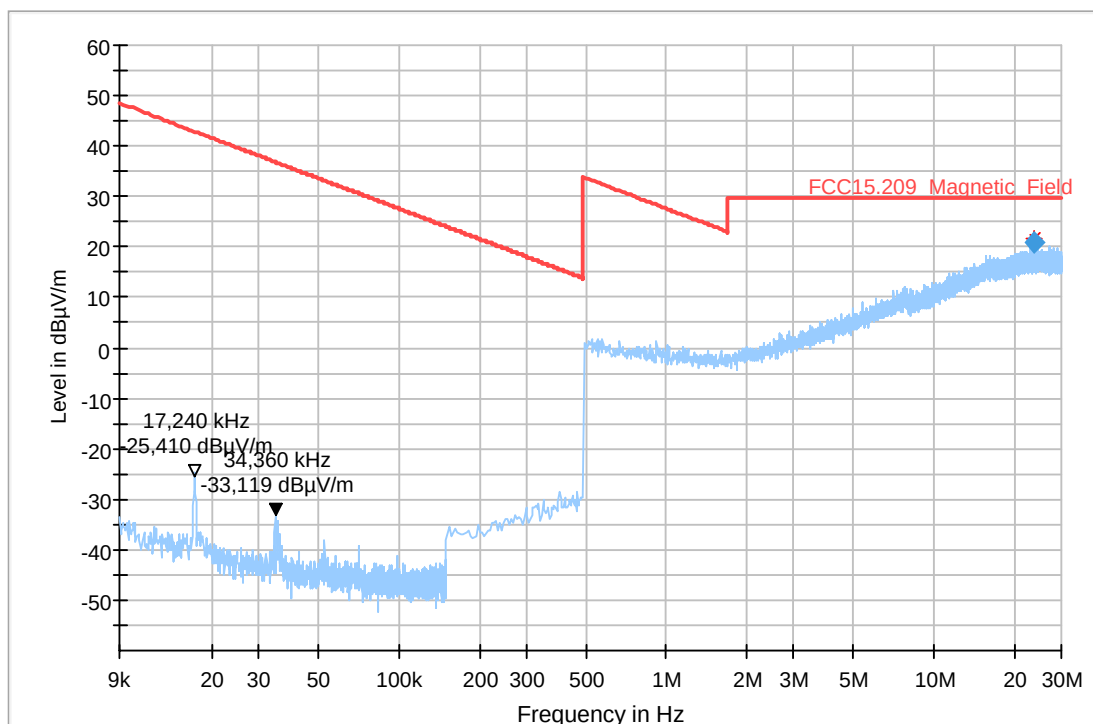
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC3) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
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:	MNu
Operating Mode:	BLE GFSK 2Mbps, 2404MHz, P:0
Power during tests:	Internal Battery 3.6V
Environmental Conditions:	Humidity: 62 % rH; Temperature: 22 °C
EUT Setup:	2
Verdict:	Passed

EUT Information

Sample:	57.819
Power Supply :	Internal battery

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
23.654000	20.78	29.54	8.76	9.000	V	247.0	1.9

2.08_BLE_2M_low_lying

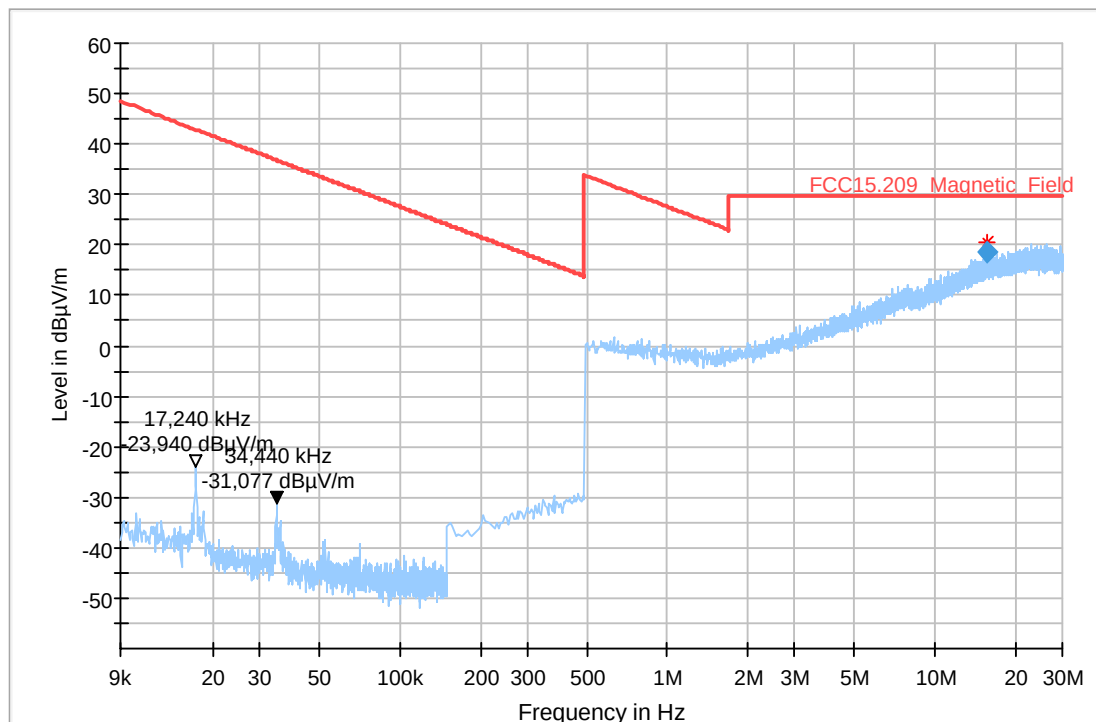
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC3) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
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:	MNu
Operating Mode:	BLE GFSK 2Mbps, 2404MHz, P:0
Power during tests:	Internal Battery 3.6V
Environmental Conditions:	Humidity: 62 % rH; Temperature: 22 °C
EUT Setup:	2
Verdict:	Passed

EUT Information

Sample:	57.819
Power Supply :	Internal battery

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
15.810000	18.78	29.54	10.76	9.000	H	40.0	0.3

2.09_BLE_2M_mid_standing

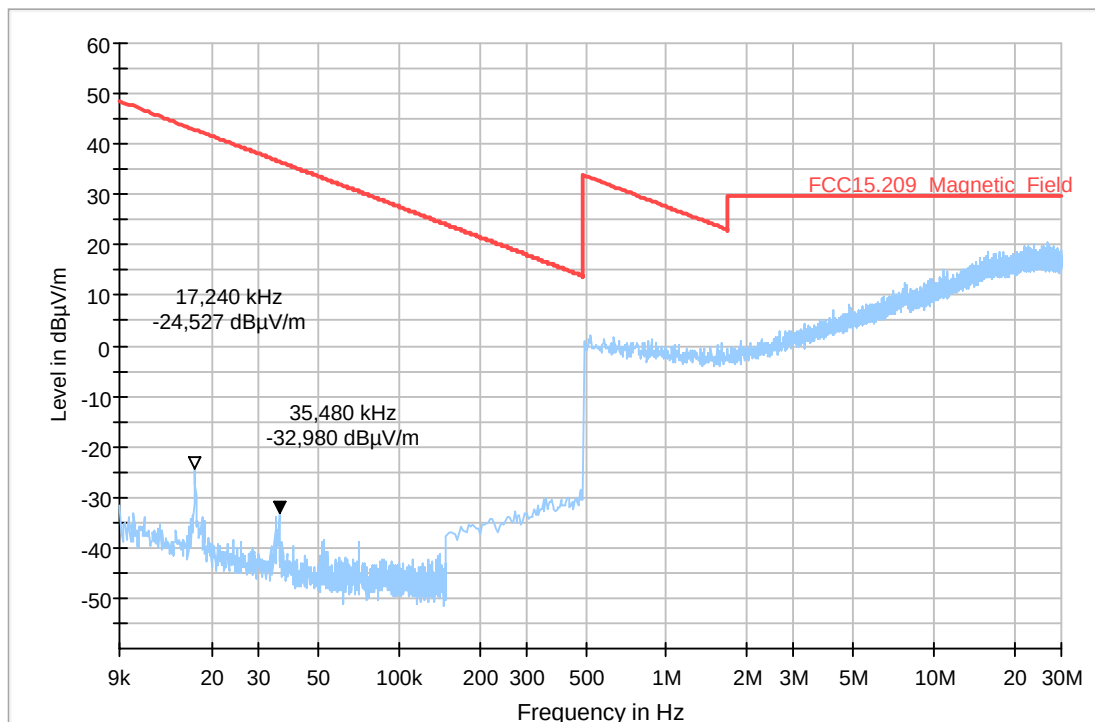
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC3) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
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:	MNu
Operating Mode:	BLE GFSK 2Mbps, 2440MHz, P:0
Power during tests:	Internal Battery 3.6V
Environmental Conditions:	Humidity: 62 % rH; Temperature: 22 °C
EUT Setup:	2
Verdict:	Passed

EUT Information

Sample:	57.819
Power Supply :	Internal battery

Full Spectrum



2.10_BLE_2M_mid_lying

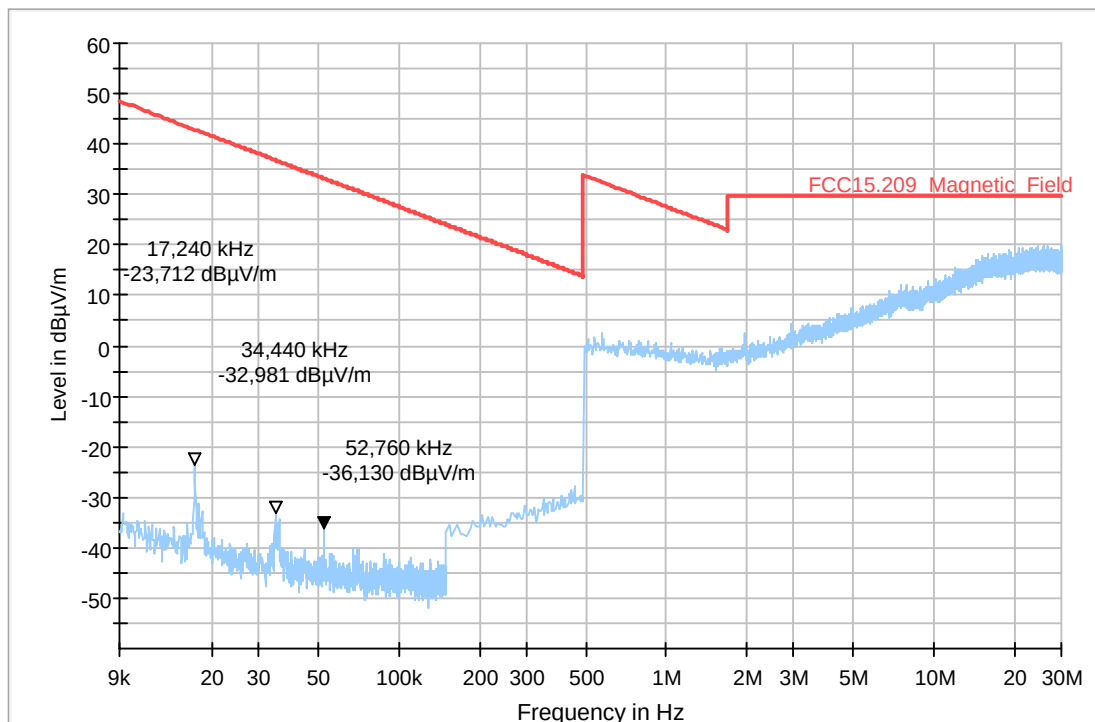
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC3) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
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:	MNu
Operating Mode:	BLE GFSK 2Mbps, 2440MHz, P:0
Power during tests:	Internal Battery 3.6V
Environmental Conditions:	Humidity: 62 % rH; Temperature: 22 °C
EUT Setup:	2
Verdict:	Passed

EUT Information

Sample:	57.819
Power Supply :	Internal battery

Full Spectrum



2.11_BLE_2M_high_standing

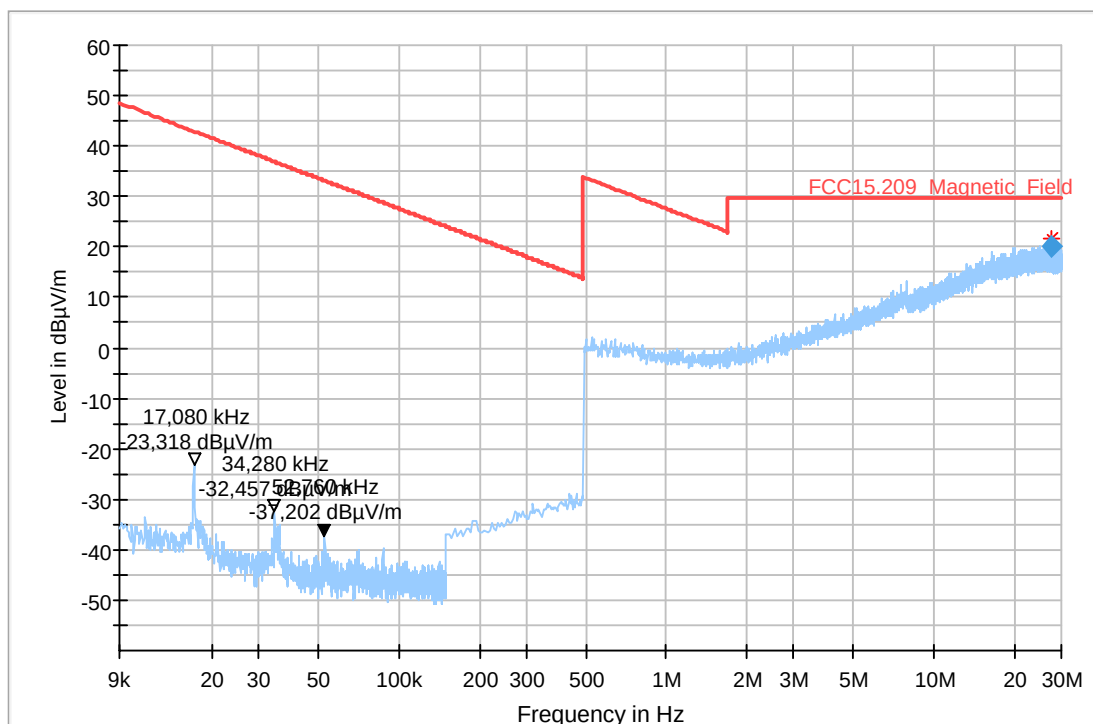
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC3) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
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:	MNu
Operating Mode:	BLE GFSK 2Mbps, 2478MHz, P:0
Power during tests:	Internal Battery 3.6V
Environmental Conditions:	Humidity: 62 % rH; Temperature: 22 °C
EUT Setup:	2
Verdict:	Passed

EUT Information

Sample:	57.819
Power Supply :	Internal battery

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
27.650000	20.11	29.54	9.43	9.000	V	62.0	2.0

2.12_BLE_2M_high_lying

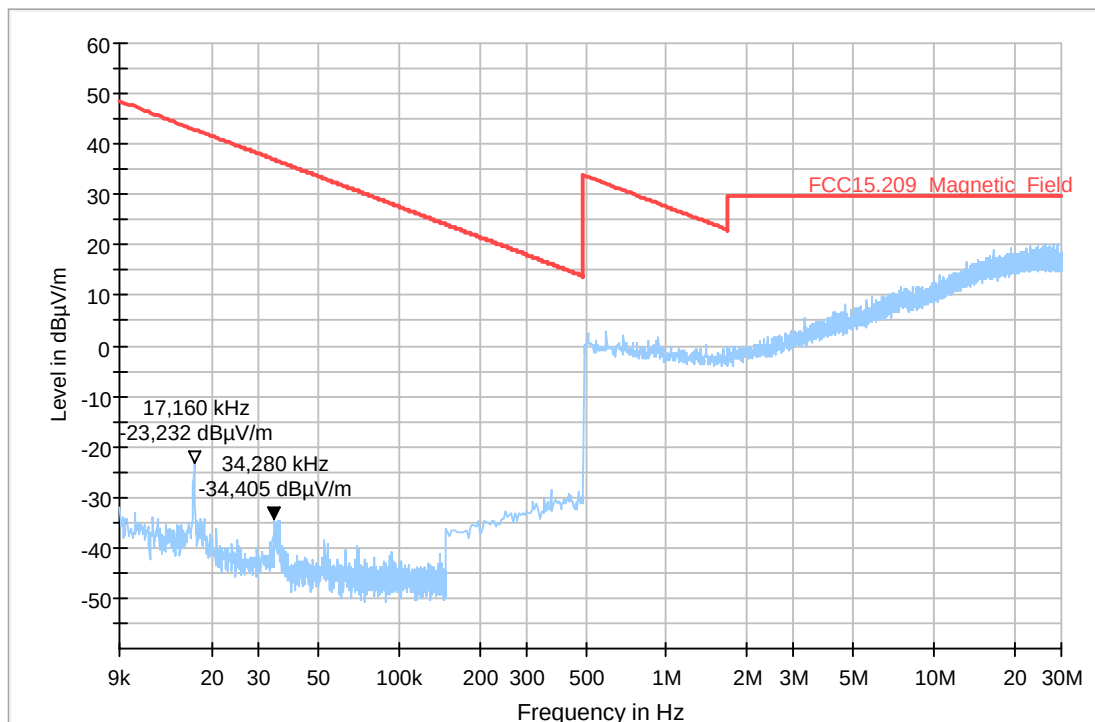
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC3) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
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:	MNu
Operating Mode:	BLE GFSK 2Mbps, 2478MHz, P:0
Power during tests:	Internal Battery 3.6V
Environmental Conditions:	Humidity: 62 % rH; Temperature: 22 °C
EUT Setup:	2
Verdict:	Passed

EUT Information

Sample:	57.819
Power Supply :	Internal battery

Full Spectrum



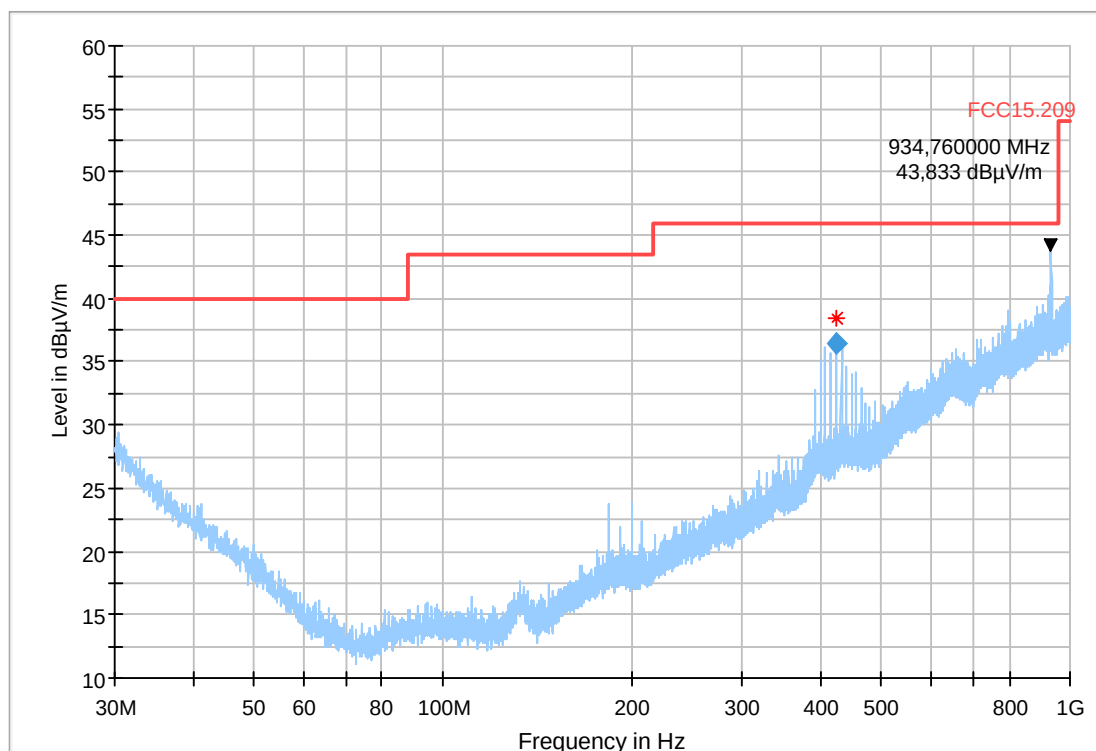
3.01_BLE_1M_low_standing

Common Information

Test Description:	Radiated field strength emission in 3m distance in SAC3 anechoic-chamber
Test Site:	cetecom advanced GmbH (Lab location: Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 45 % rH, Temperature: 21 °C
Operator Name:	SOz
EUT:	2
Operating Mode:	BLE GFSK 1Mbps, 2402MHz, P:0
Verdict:	Passed

EUT Information

Sample:	57.819
Power supply:	internal battery



Remark: Emission at 934.76 MHz is outside from chamber and not related to results.

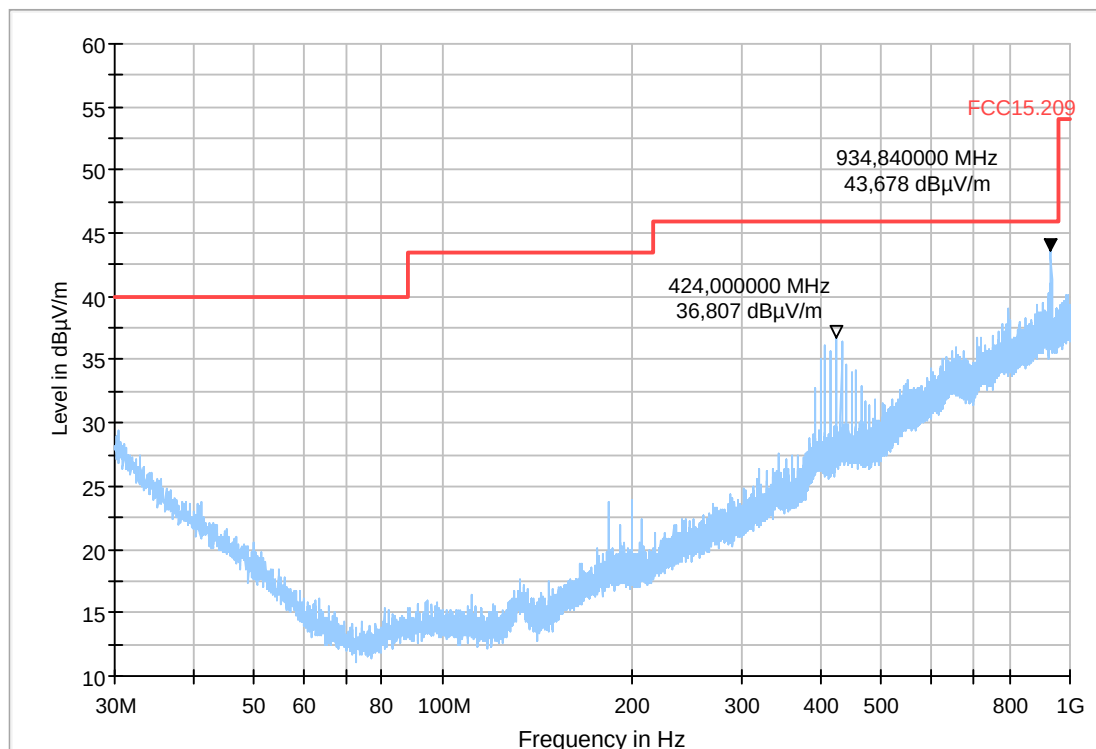
3.02_BLE_1M_low_lying

Common Information

Test Description:	Radiated field strength emission in 3m distance in SAC3 anechoic-chamber
Test Site:	cetecom advanced GmbH (Lab location: Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 45 % rH, Temperature: 21 °C
Operator Name:	SOz
EUT:	2
Operating Mode:	BLE GFSK 1Mbps, 2402MHz, P:0
Verdict:	Passed

EUT Information

Sample:	57.819
Power supply:	internal battery



Remark: Emission at 934.84 MHz is outside from chamber and not related to results.

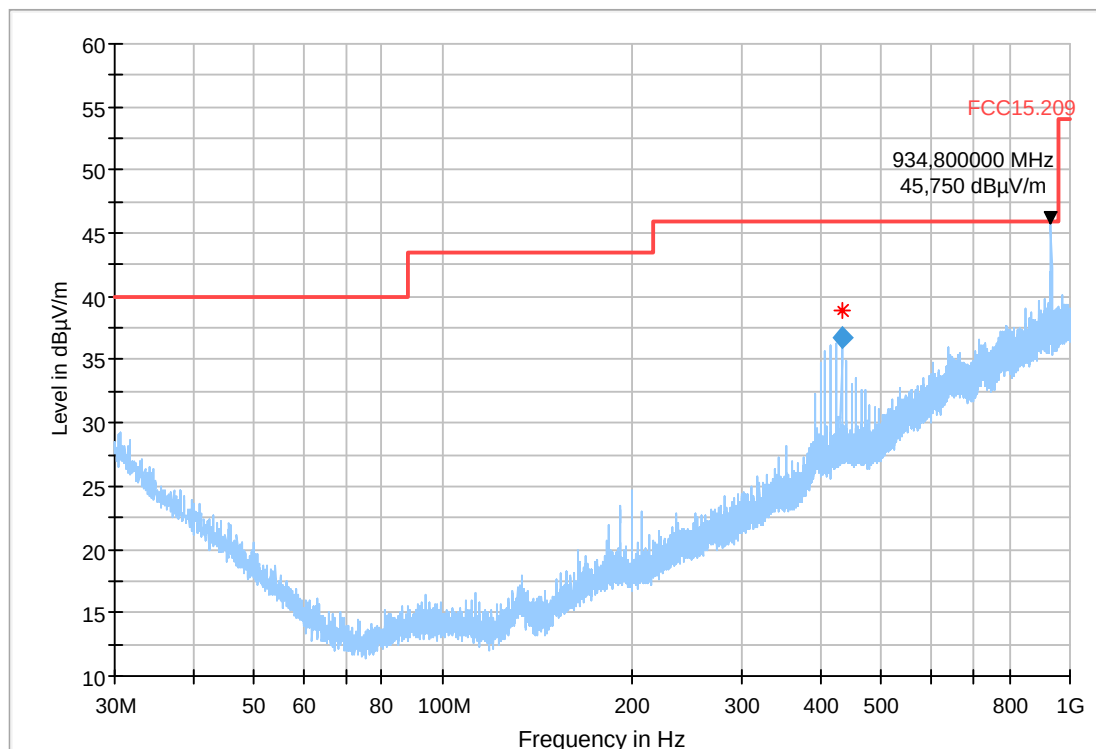
3.03_BLE_1M_mid_standing

Common Information

Test Description:	Radiated field strength emission in 3m distance in SAC3 anechoic-chamber
Test Site:	cetecom advanced GmbH (Lab location: Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 45 % rH, Temperature: 21 °C
Operator Name:	SOz
EUT:	2
Operating Mode:	BLE GFSK 1Mbps, 2440MHz, P:0
Verdict:	Passed

EUT Information

Sample:	57.819
Power supply:	internal battery



Remark: Emission at 934.80 MHz is outside from chamber and not related to results.

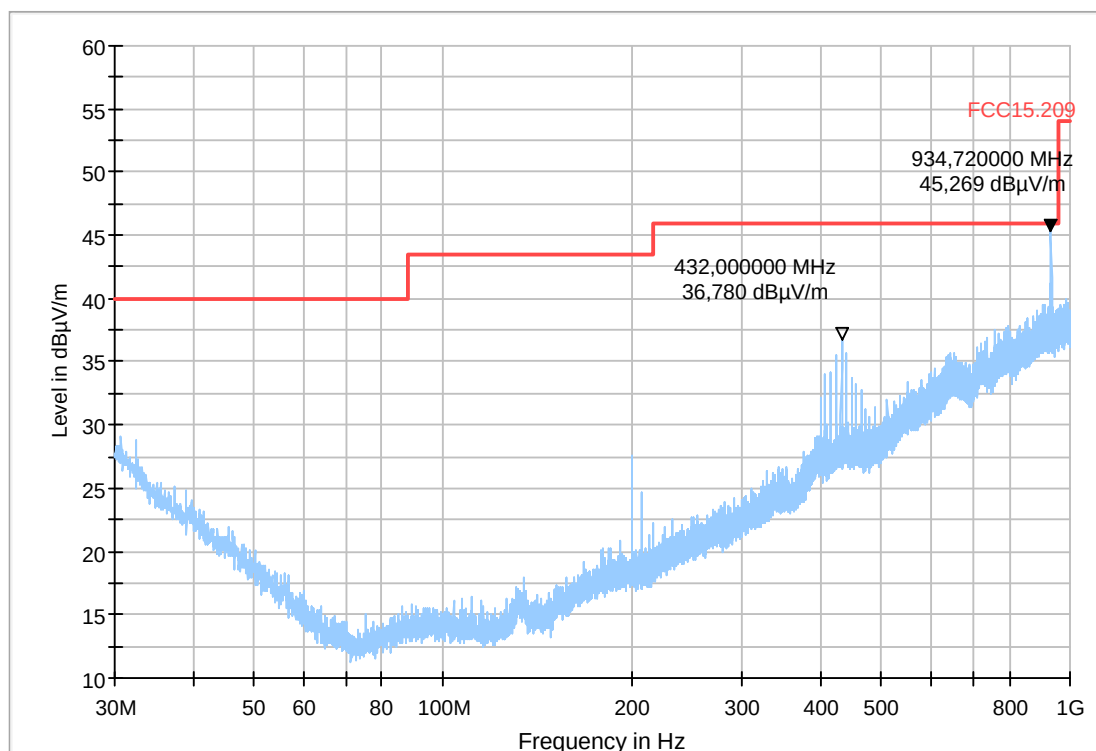
3.04_BLE_1M_mid_lying

Common Information

Test Description:	Radiated field strength emission in 3m distance in SAC3 anechoic-chamber
Test Site:	cetecom advanced GmbH (Lab location: Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 45 % rH, Temperature: 21 °C
Operator Name:	SOz
EUT:	2
Operating Mode:	BLE GFSK 1Mbps, 2440MHz, P:0
Verdict:	Passed

EUT Information

Sample:	57.819
Power supply:	internal battery



Remark: Emission at 934.72 MHz is outside from chamber and not related to results.

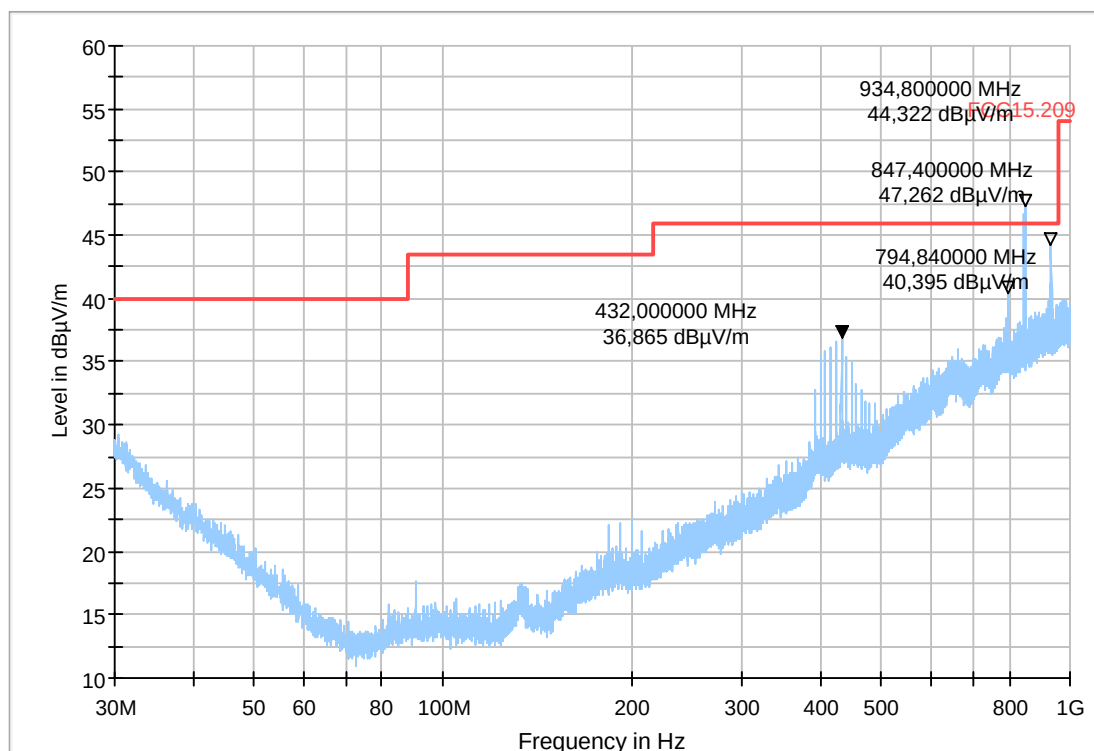
3.05_BLE_1M_high_standing

Common Information

Test Description:	Radiated field strength emission in 3m distance in SAC3 anechoic-chamber
Test Site:	cetecom advanced GmbH (Lab location: Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 45 % rH, Temperature: 21 °C
Operator Name:	SOz
EUT:	2
Operating Mode:	BLE GFSK 1Mbps, 2480MHz, P:0
Verdict:	Passed

EUT Information

Sample:	57.819
Power supply:	internal battery



Remark: Emission at 794.84 MHz, 847.40 MHz and 934.80 MHz are outside from chamber and not related to results.

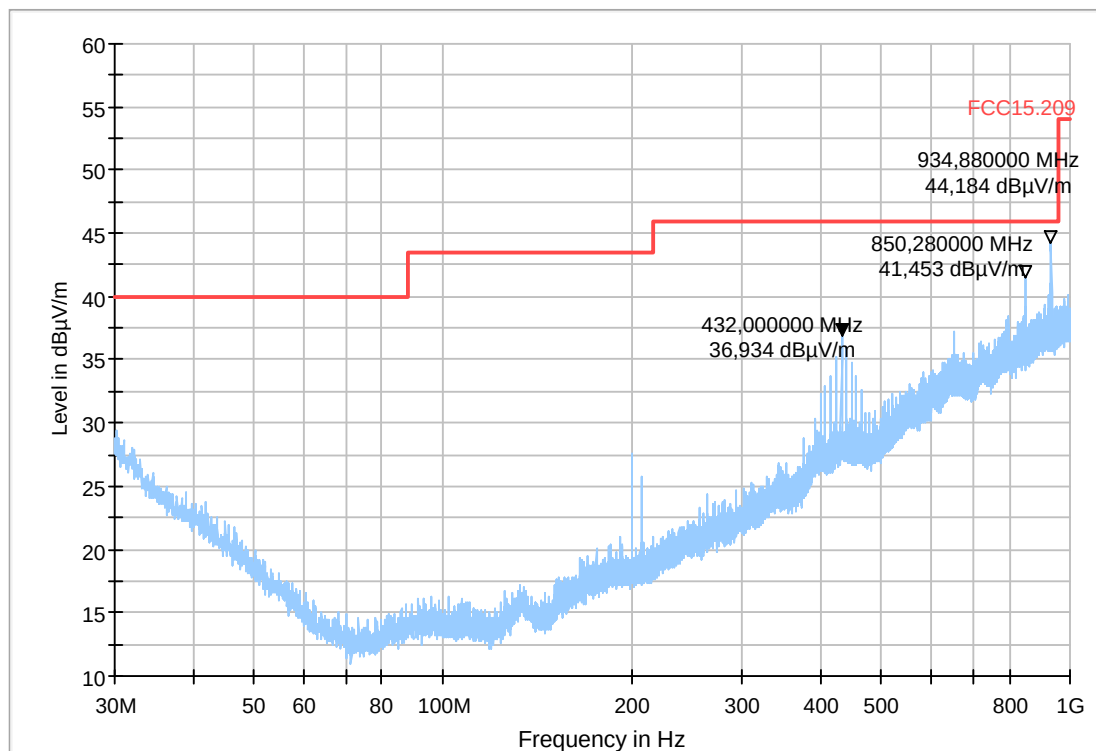
3.06_BLE_1M_high_lying

Common Information

Test Description:	Radiated field strength emission in 3m distance in SAC3 anechoic-chamber
Test Site:	cetecom advanced GmbH (Lab location: Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 45 % rH, Temperature: 21 °C
Operator Name:	SOz
EUT:	2
Operating Mode:	BLE GFSK 1Mbps, 2480MHz, P:0
Verdict:	Passed

EUT Information

Sample:	57.819
Power supply:	internal battery



Remark: Emission at 850.28MHz and 934.88 MHz are outside from chamber and not related to results.

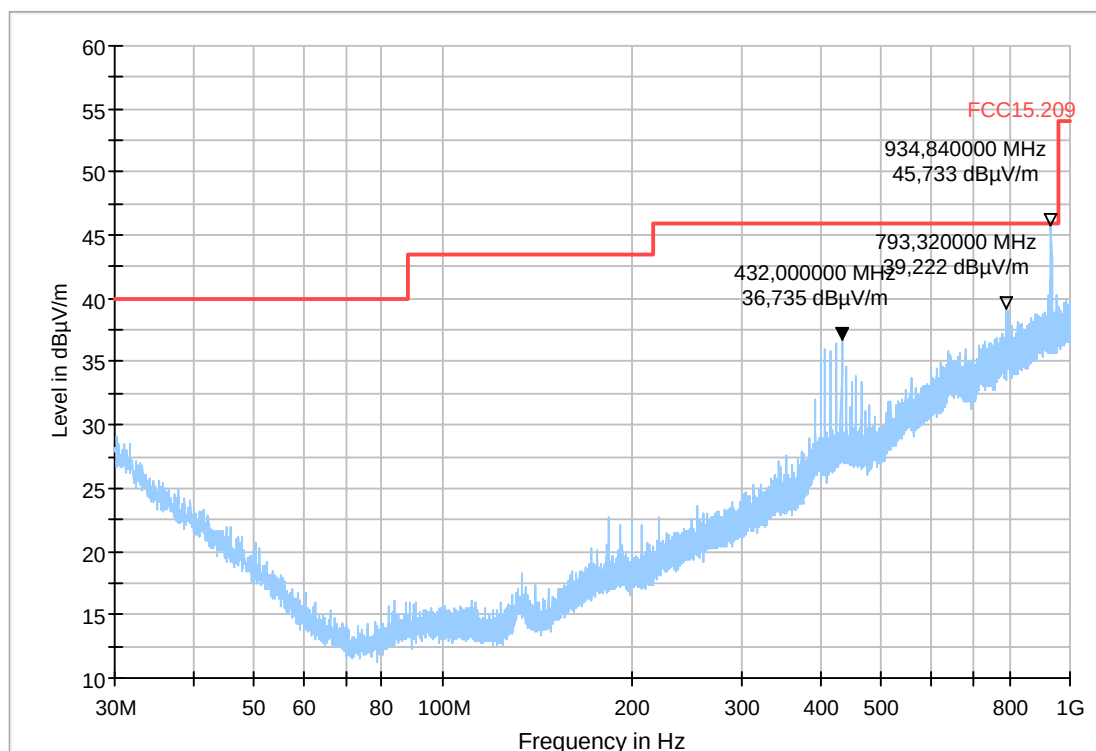
3.07_BLE_2M_low_standing

Common Information

Test Description:	Radiated field strength emission in 3m distance in SAC3 anechoic-chamber
Test Site:	cetecom advanced GmbH (Lab location: Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 45 % rH, Temperature: 21 °C
Operator Name:	SOz
EUT:	2
Operating Mode:	BLE GFSK 2Mbps, 2404MHz, P:0
Verdict:	Passed

EUT Information

Sample:	57.819
Power supply:	internal battery



Remark: Emission at 793.32 MHz and 934.84 MHz are outside from chamber and not related to results.

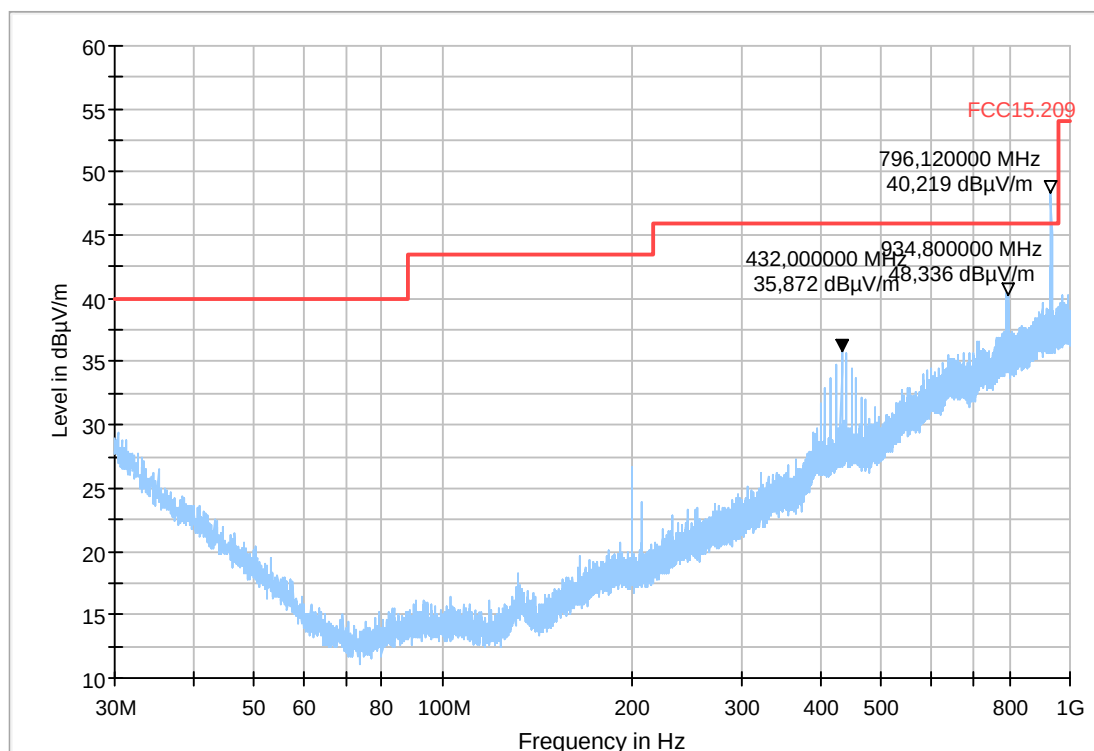
3.08_BLE_2M_low_lying

Common Information

Test Description:	Radiated field strength emission in 3m distance in SAC3 anechoic-chamber
Test Site:	cetecom advanced GmbH (Lab location: Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 45 % rH, Temperature: 21 °C
Operator Name:	SOz
EUT:	2
Operating Mode:	BLE GFSK 2Mbps, 2404MHz, P:0
Verdict:	Passed

EUT Information

Sample:	57.819
Power supply:	internal battery



Remark: Emission at 796.12 MHz and 934.80 MHz are outside from chamber and not related to results.

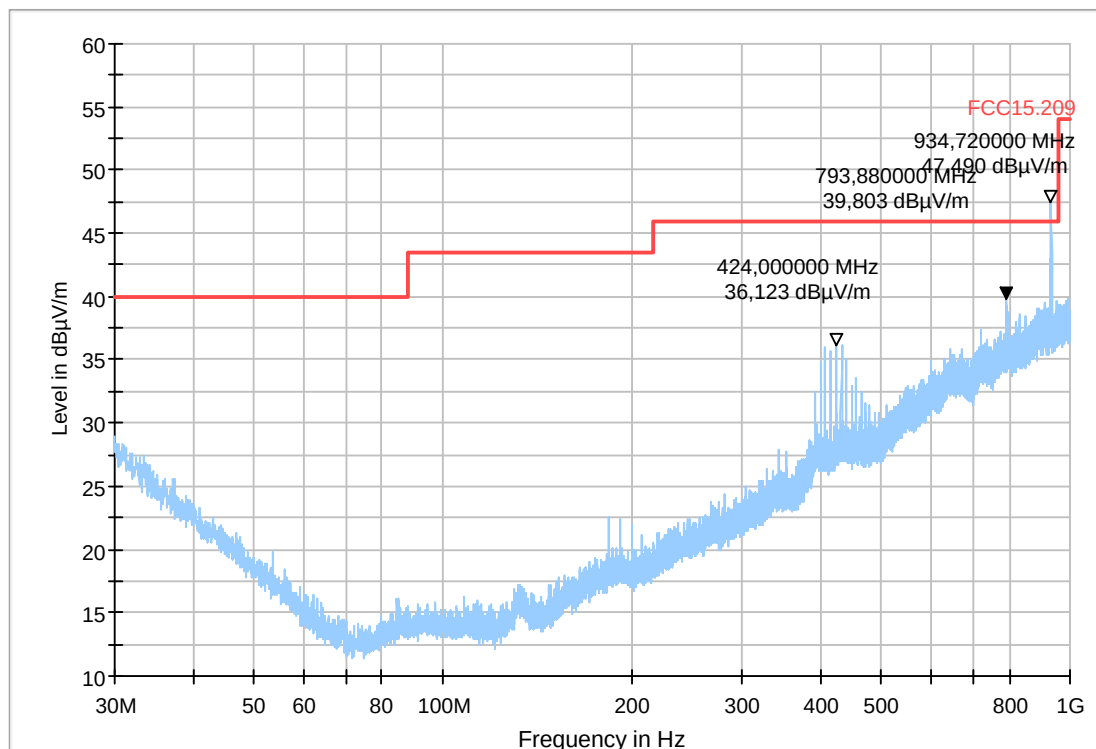
3.09_BLE_2M_mid_standing

Common Information

Test Description:	Radiated field strength emission in 3m distance in SAC3 anechoic-chamber
Test Site:	cetecom advanced GmbH (Lab location: Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 45 % rH, Temperature: 21 °C
Operator Name:	SOz
EUT:	2
Operating Mode:	BLE GFSK 2Mbps, 2440MHz, P:0
Verdict:	Passed

EUT Information

Sample:	57.819
Power supply:	internal battery



Remark: Emission at 793.88 MHz and 934.72 MHz are outside from chamber and not related to results.

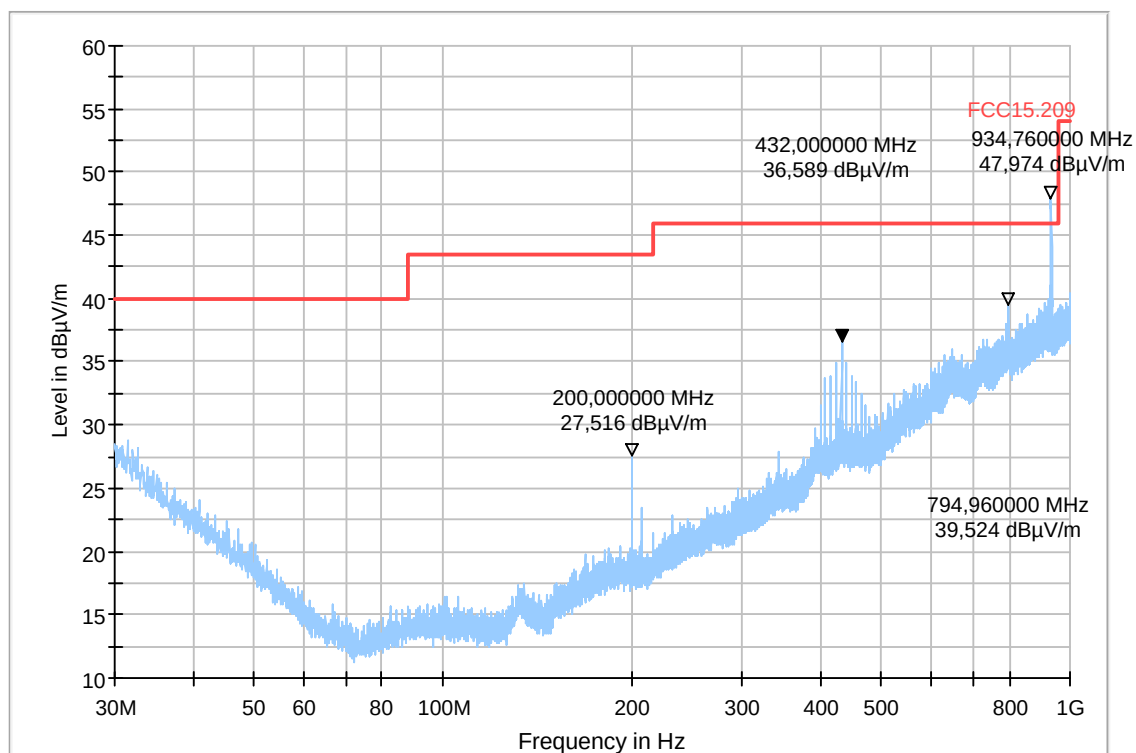
3.10_BLE_2M_mid_lying

Common Information

Test Description:	Radiated field strength emission in 3m distance in SAC3 anechoic-chamber
Test Site:	cetecom advanced GmbH (Lab location: Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 45 % rH, Temperature: 21 °C
Operator Name:	SOz
EUT:	2
Operating Mode:	BLE GFSK 2Mbps, 2440MHz, P:0
Verdict:	Passed

EUT Information

Sample:	57.819
Power supply:	internal battery



Remark: Emission at 934.76 MHz is outside from chamber and not related to results.

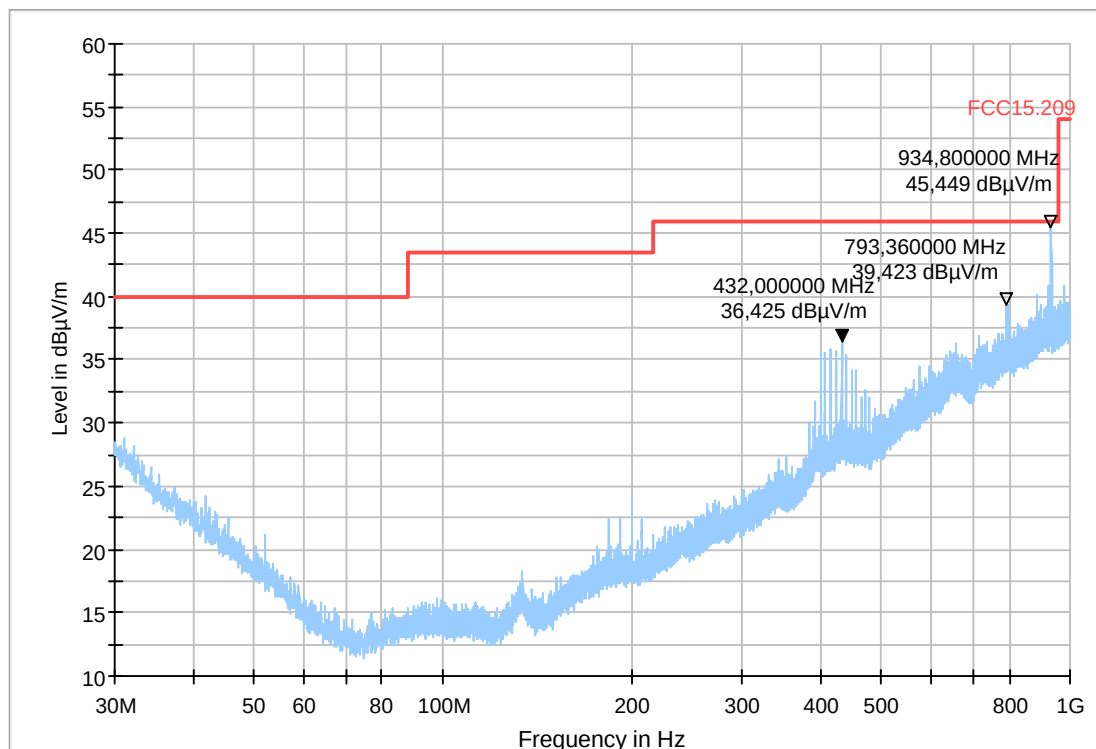
3.11_BLE_2M_high_standing

Common Information

Test Description:	Radiated field strength emission in 3m distance in SAC3 anechoic-chamber
Test Site:	cetecom advanced GmbH (Lab location: Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 45 % rH, Temperature: 21 °C
Operator Name:	SOz
EUT:	2
Operating Mode:	BLE GFSK 2Mbps, 2478MHz, P:0
Verdict:	Passed

EUT Information

Sample:	57.819
Power supply:	internal battery



Remark: Emission at 793.36 MHz and 934.80 MHz are outside from chamber and not related to results.

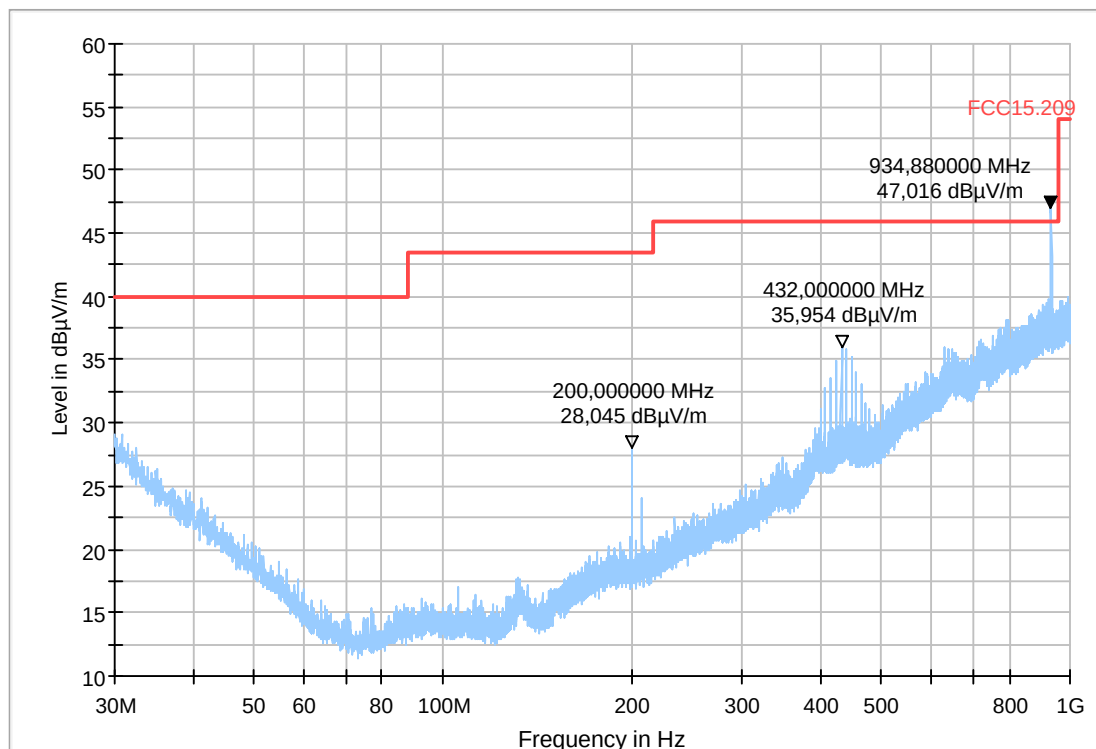
3.12_BLE_2M_high_lying

Common Information

Test Description:	Radiated field strength emission in 3m distance in SAC3 anechoic-chamber
Test Site:	cetecom advanced GmbH (Lab location: Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 45 % rH, Temperature: 21 °C
Operator Name:	SOz
EUT:	2
Operating Mode:	BLE GFSK 2Mbps, 2478MHz, P:0
Verdict:	Passed

EUT Information

Sample:	57.819
Power supply:	internal battery



Remark: Emission at 934.88 MHz is outside from chamber and not related to results.

4.01_BLE_1M_low

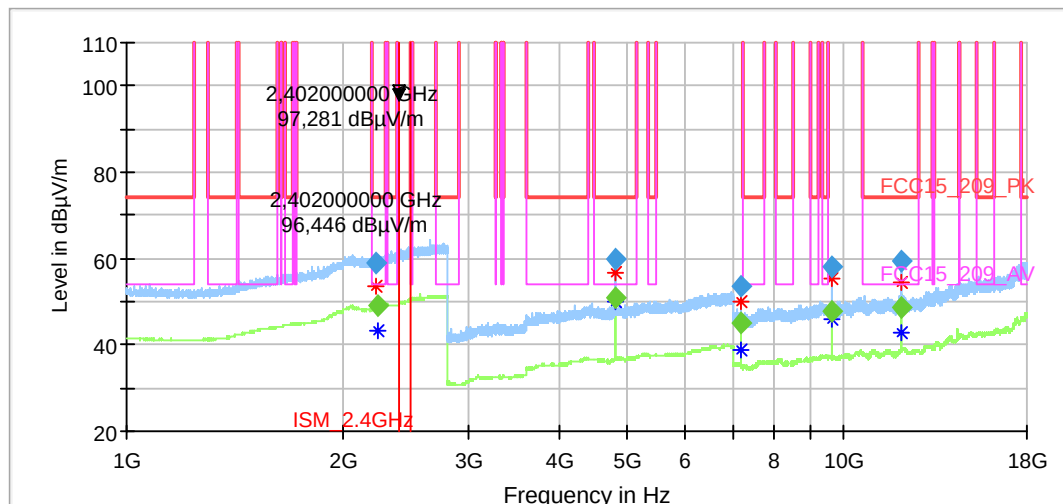
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BLE GFSK 1Mbps, 2402MHz, P:0
Set-up no.	1
Operator:	SOz / PShin
Environmental Conditions:	Humidity: 50 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

Sample:	57.818
Power Supply :	Internal battery

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
2230.490000	59.01	---	74.00	14.99	100.0	1000.000	155.0	V	206.0	0.0
2233.930000	---	49.10	54.00	4.90	100.0	1000.000	155.0	H	261.0	90.0
4803.490000	---	51.11	54.00	2.89	100.0	1000.000	155.0	H	306.0	0.0
4803.490000	59.68	---	74.00	14.32	100.0	1000.000	155.0	H	305.0	0.0
7205.250000	53.74	---	150.00	96.26	100.0	1000.000	155.0	H	51.0	90.0
7205.370000	---	45.18	150.00	104.82	100.0	1000.000	155.0	H	50.0	90.0
9607.010000	---	47.90	150.00	102.10	100.0	1000.000	155.0	H	27.0	90.0
9608.970000	58.07	---	150.00	91.93	100.0	1000.000	155.0	H	24.0	90.0
12008.730000	59.47	---	74.00	14.53	100.0	1000.000	155.0	H	2.0	0.0
12008.850000	---	48.87	54.00	5.13	100.0	1000.000	155.0	H	3.0	0.0

4.02_BLE_1M_mid

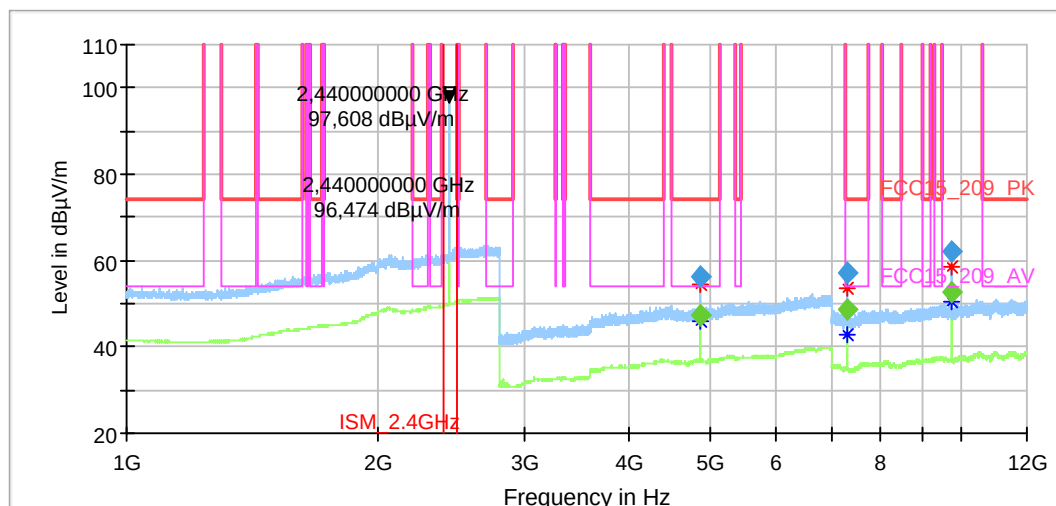
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BLE GFSK 1Mbps, 2440MHz, P:0
Set-up no.	1
Operator:	PShin
Environmental Conditions:	Humidity: 50 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

Sample:	57.818
Power Supply :	Internal battery

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Elevation
4879.490000	---	47.40	54.00	6.60	100.0	1000.000	155.0	H	45.0	90.0
4880.490000	56.31	---	74.00	17.69	100.0	1000.000	155.0	H	46.0	90.0
7319.250000	57.37	---	74.00	16.63	100.0	1000.000	155.0	H	140.0	0.0
7319.330000	---	48.59	54.00	5.41	100.0	1000.000	155.0	H	140.0	0.0
9758.970000	62.06	---	150.00	87.94	100.0	1000.000	155.0	H	-13.0	0.0
9759.010000	---	52.60	150.00	97.40	100.0	1000.000	155.0	H	-13.0	0.0

4.03_BLE_1M_mid

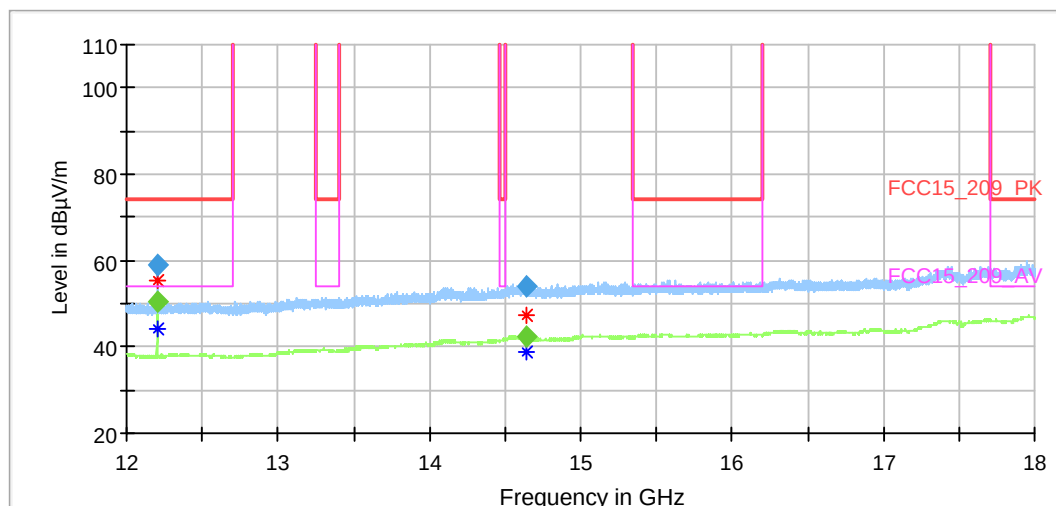
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BLE GFSK 1Mbps, 2440MHz, P:0
Set-up no.	1
Operator:	PShin
Environmental Conditions:	Humidity: 50 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

Sample:	57.818
Power Supply :	Internal battery

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
12198.810000	59.01	---	74.00	14.99	100.0	1000.000	155.0	H	43.0	0.0
12201.130000	---	50.62	54.00	3.38	100.0	1000.000	155.0	H	0.0	0.0
14638.490000	---	42.37	150.00	107.63	100.0	1000.000	155.0	V	68.0	0.0
14638.490000	54.17	---	150.00	95.83	100.0	1000.000	155.0	H	-5.0	0.0

4.04_BLE_1M_high

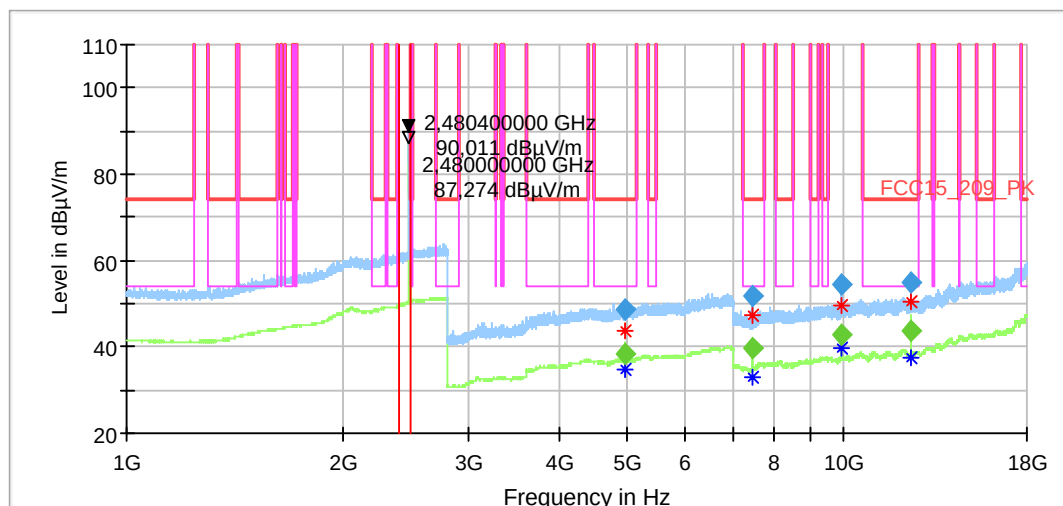
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BLE GFSK 1Mbps, 2480MHz, P:0
Set-up no.	1
Operator:	TFra
Environmental Conditions:	Humidity: 50 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

Sample:	57.818
Power Supply :	Internal battery

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
4959.490000	---	38.30	54.00	15.70	100.0	1000.000	155.0	H	46.0	90.0
4960.010000	48.85	---	74.00	25.15	100.0	1000.000	155.0	V	94.0	90.0
7440.010000	51.58	---	74.00	22.42	100.0	1000.000	155.0	H	58.0	90.0
7440.690000	---	39.65	54.00	14.35	100.0	1000.000	155.0	H	58.0	90.0
9919.010000	---	42.75	150.00	107.25	100.0	1000.000	155.0	H	14.0	0.0
9919.970000	54.53	---	150.00	95.47	100.0	1000.000	155.0	H	-12.0	0.0
12398.850000	---	43.76	54.00	10.24	100.0	1000.000	155.0	H	3.0	0.0
12401.210000	55.09	---	74.00	18.91	100.0	1000.000	155.0	H	38.0	0.0

4.05_BLE_2M_low

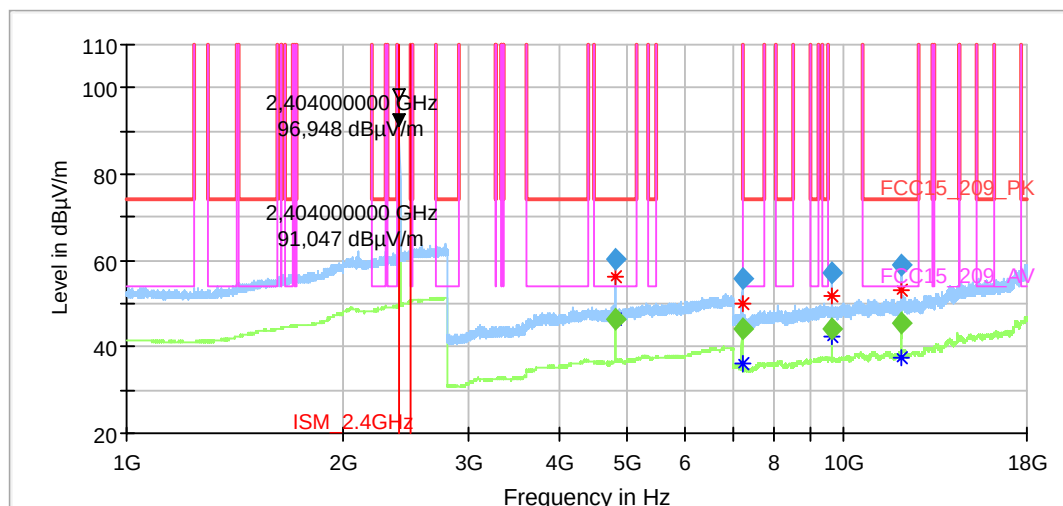
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BLE GFSK 2Mbps, 2404MHz, P:0
Set-up no.	1
Operator:	PShin
Environmental Conditions:	Humidity: 50 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

Sample:	57.818
Power Supply :	Internal battery

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
4806.970000	---	46.62	54.00	7.38	100.0	1000.000	155.0	H	106.0	90.0
4807.010000	60.25	---	74.00	13.75	100.0	1000.000	155.0	H	102.0	90.0
7210.490000	55.72	---	150.00	94.28	100.0	1000.000	155.0	H	141.0	0.0
7213.250000	---	44.28	150.00	105.72	100.0	1000.000	155.0	H	139.0	0.0
9617.970000	57.23	---	150.00	92.77	100.0	1000.000	155.0	H	0.0	90.0
9618.010000	---	44.15	150.00	105.85	100.0	1000.000	155.0	H	-6.0	90.0
12022.290000	---	45.67	54.00	8.33	100.0	1000.000	155.0	H	-1.0	0.0
12022.490000	58.85	---	74.00	15.15	100.0	1000.000	155.0	H	0.0	0.0

4.06_BLE_2M_mid

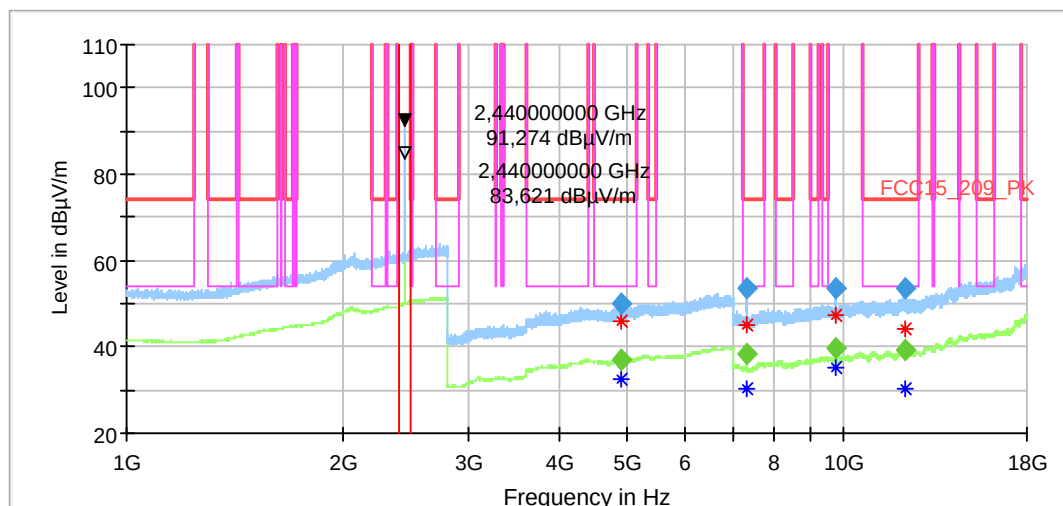
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BLE GFSK 2Mbps, 2440MHz, P:0
Set-up no.	1
Operator:	TFra
Environmental Conditions:	Humidity: 50 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

Sample:	57.818
Power Supply :	Internal battery

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
4879.010000	---	36.86	54.00	17.14	100.0	1000.000	155.0	H	145.0	90.0
4880.010000	49.81	---	74.00	24.19	100.0	1000.000	155.0	H	46.0	90.0
7318.770000	---	38.23	54.00	15.77	100.0	1000.000	155.0	H	59.0	90.0
7321.530000	53.47	---	74.00	20.53	100.0	1000.000	155.0	H	58.0	90.0
9761.970000	53.67	---	150.00	96.33	100.0	1000.000	155.0	H	-5.0	0.0
9762.010000	---	39.67	150.00	110.33	100.0	1000.000	155.0	H	-13.0	0.0
12197.610000	53.43	---	74.00	20.57	100.0	1000.000	155.0	H	-2.0	0.0
12197.770000	---	39.36	54.00	14.64	100.0	1000.000	155.0	H	4.0	0.0

4.07_BLE_2M_high

Common Information

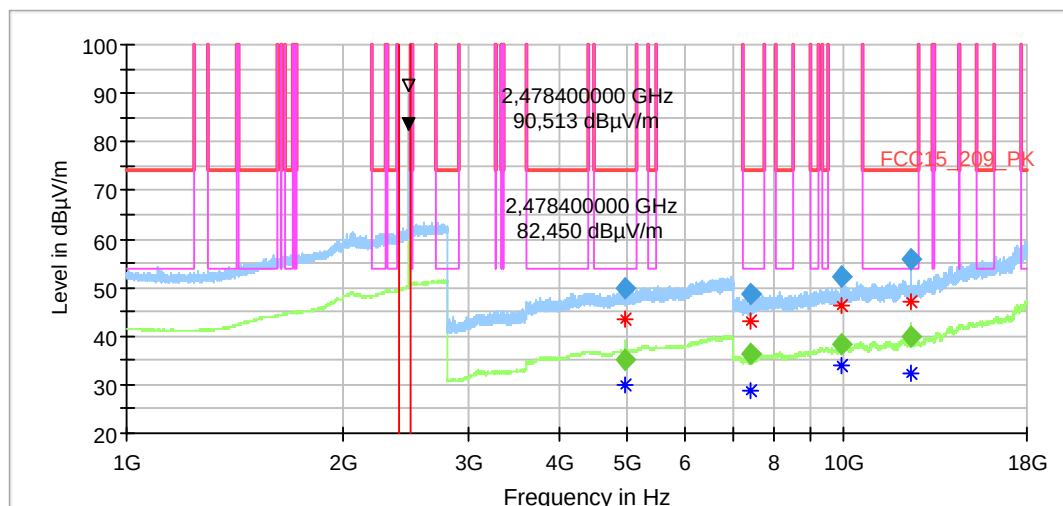
Test Description: Radiated field strength emission in 3m distance
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
 Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
 Antenna polarisation: horizontal/vertical

Operating Mode: BLE GFSK 2Mbps, 2478MHz, P:0
 Set-up no. 1
 Operator: TFra
 Environmental Conditions: Humidity: 50 % rH; Temperature: 20 °C
 Verdict: Passed

EUT Information

Sample: 57.818
 Power Supply : Internal battery

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
4955.010000	49.68	---	74.00	24.32	100.0	1000.000	155.0	H	42.0	90.0
4957.010000	---	35.23	54.00	18.77	100.0	1000.000	155.0	H	47.0	90.0
7432.770000	---	36.49	54.00	17.51	100.0	1000.000	155.0	V	43.0	90.0
7434.970000	48.85	---	74.00	25.15	100.0	1000.000	155.0	V	43.0	90.0
9910.010000	---	38.13	150.00	111.87	100.0	1000.000	155.0	H	64.0	0.0
9912.010000	52.41	---	150.00	97.59	100.0	1000.000	155.0	H	175.0	0.0
12387.770000	---	39.99	54.00	14.01	100.0	1000.000	155.0	H	67.0	0.0
12392.450000	55.90	---	74.00	18.10	100.0	1000.000	155.0	H	64.0	0.0

4.08_BLE_1M_low_Anth

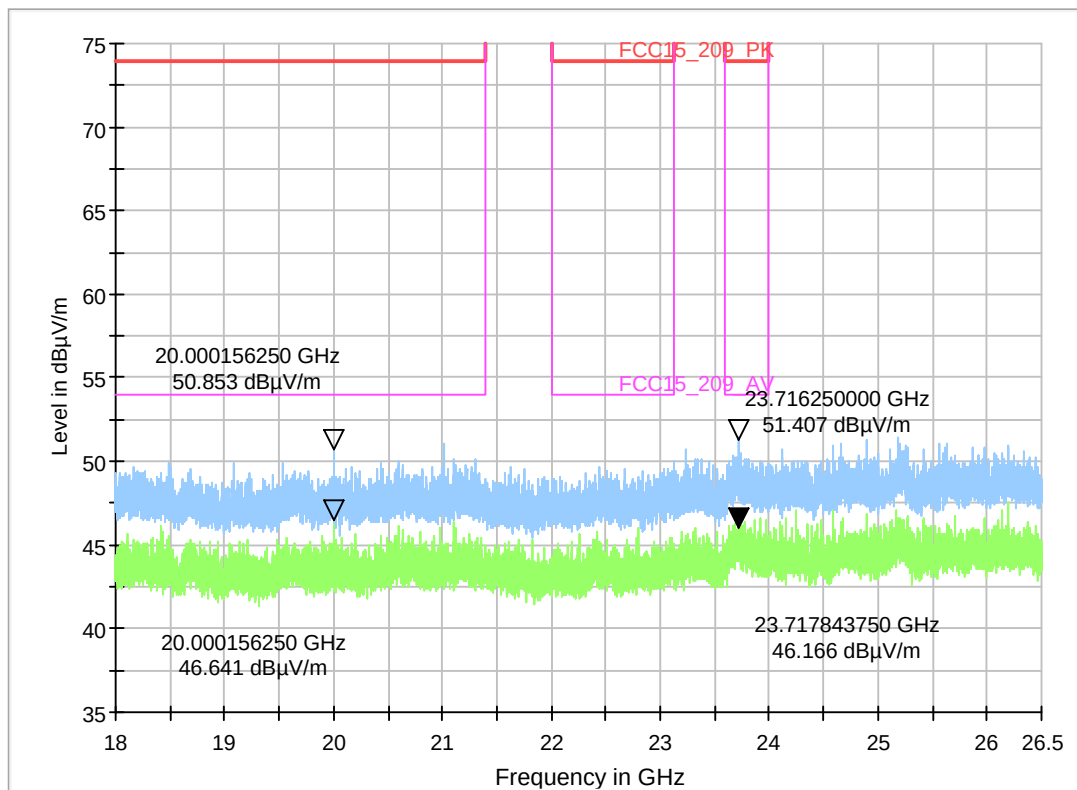
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAC2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BLE GFSK 1Mbps, 2402MHz, P:0
Environmental Conditions:	Humidity: 52 % rH; Temperature: 21.9 °C
SW-Version:	EMC32 V10.60.20
Operator:	Soz
Verdict:	Passed

EUT Information

PMT Sample Nr.:	57.818
Power:	internal battery

Full Spectrum



4.09_BLE_1M_low_AntV

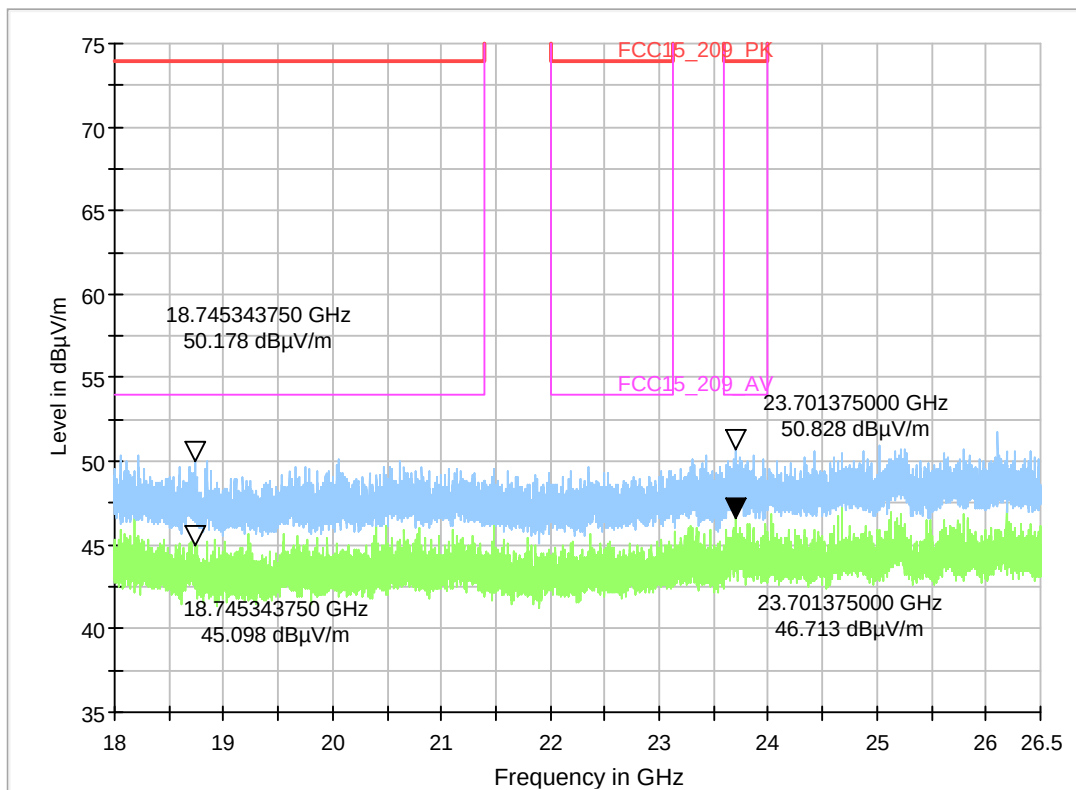
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAC2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BLE GFSK 1Mbps, 2402MHz, P:0
Environmental Conditions:	Humidity: 52 % rH; Temperature: 21.9 °C
SW-Version:	EMC32 V10.60.20
Operator:	Soz
Verdict:	Passed

EUT Information

PMT Sample Nr.:	57.818
Power:	internal battery

Full Spectrum



4.10_BLE_1M_mid_Anth

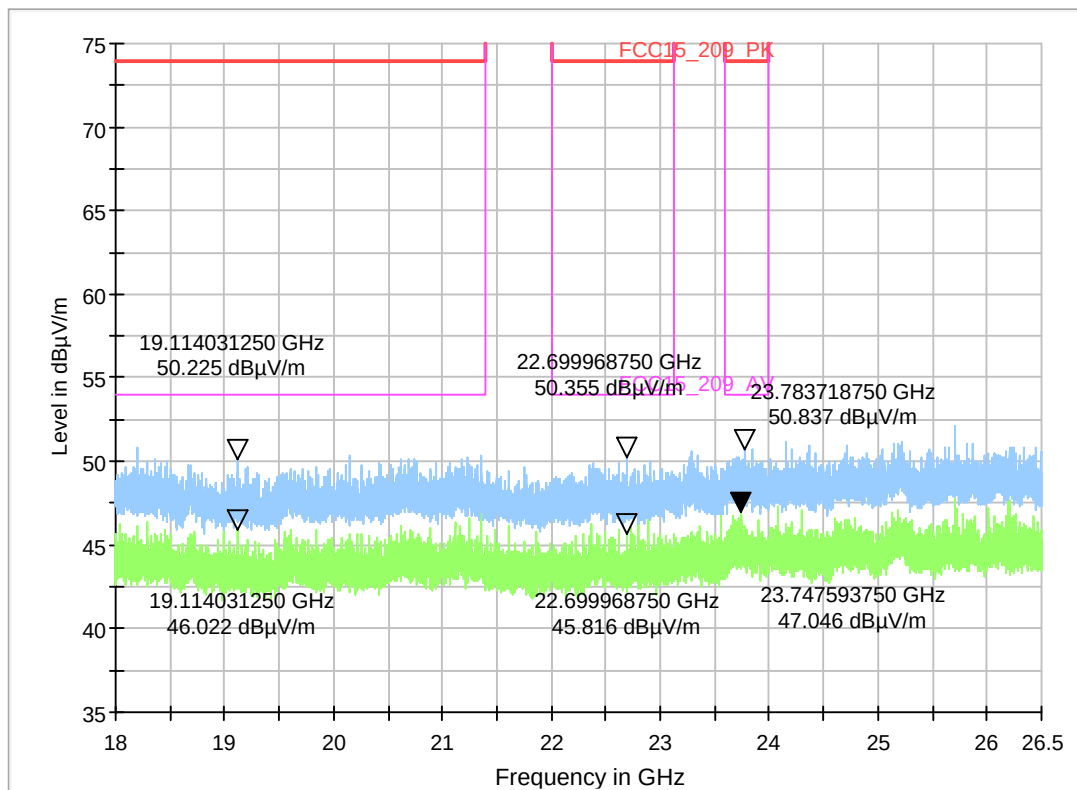
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAC2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BLE GFSK 1Mbps, 2440MHz, P:0
Environmental Conditions:	Humidity: 52 % rH; Temperature: 21.9 °C
SW-Version:	EMC32 V10.60.20
Operator:	Soz
Verdict:	Passed

EUT Information

PMT Sample Nr.:	57.818
Power:	internal battery

Full Spectrum



4.11_BLE_1M_mid_AntV

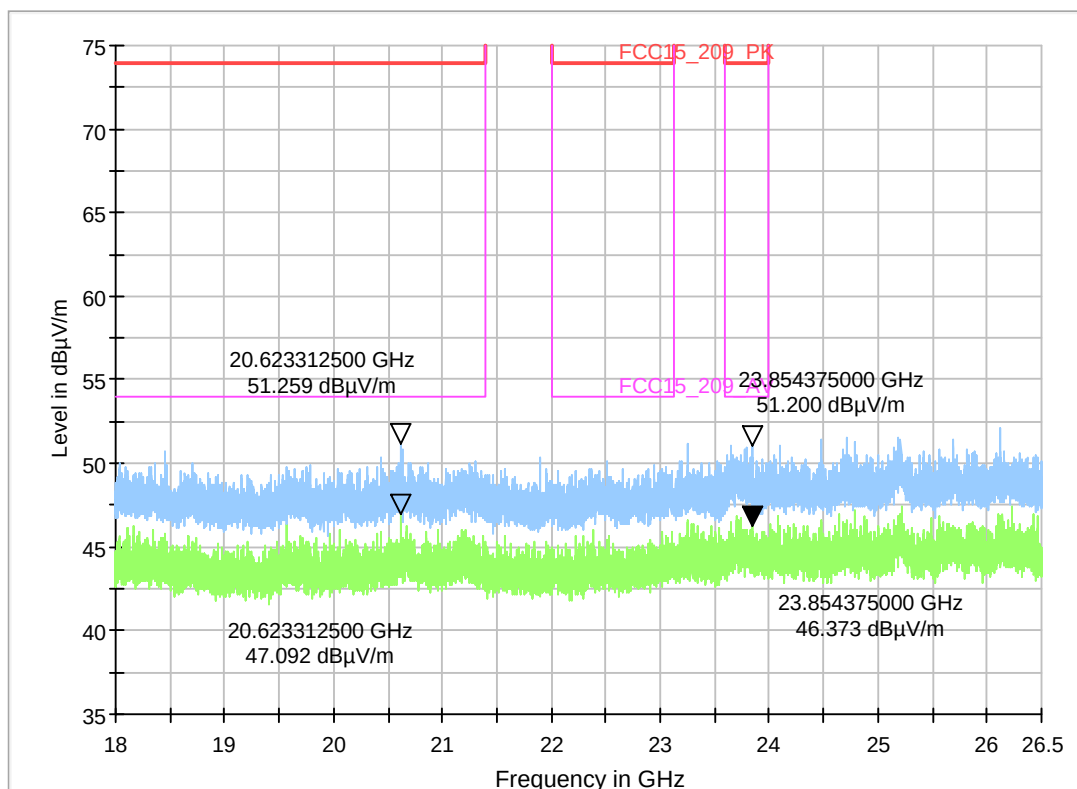
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAC2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BLE GFSK 1Mbps, 2440MHz, P:0
Environmental Conditions:	Humidity: 52 % rH; Temperature: 21.9 °C
SW-Version:	EMC32 V10.60.20
Operator:	SOz
Verdict:	Passed

EUT Information

PMT Sample Nr.:	57.818
Power:	internal battery

Full Spectrum



4.12_BLE_1M_high_AntH

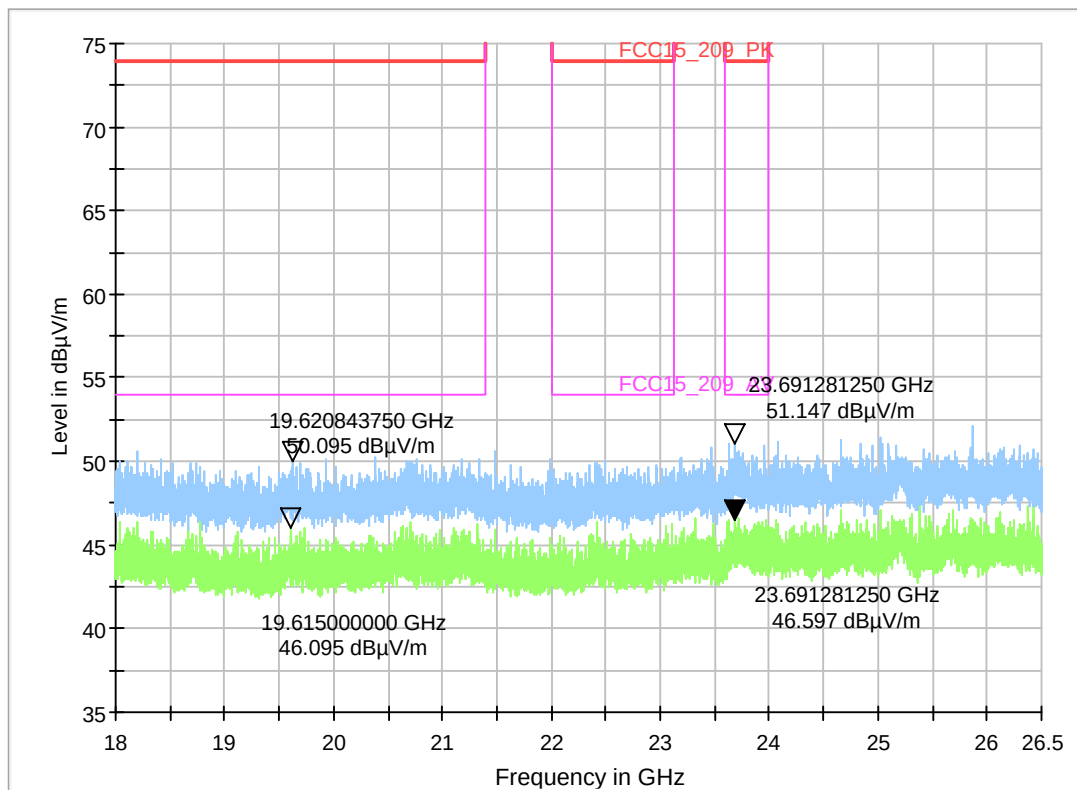
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAC2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BLE GFSK 1Mbps, 2480MHz, P:0
Environmental Conditions:	Humidity: 52 % rH; Temperature: 21.9 °C
SW-Version:	EMC32 V10.60.20
Operator:	SOz
Verdict:	Passed

EUT Information

PMT Sample Nr.:	57.818
Power:	internal battery

Full Spectrum



4.13_BLE_1M_high_AntV

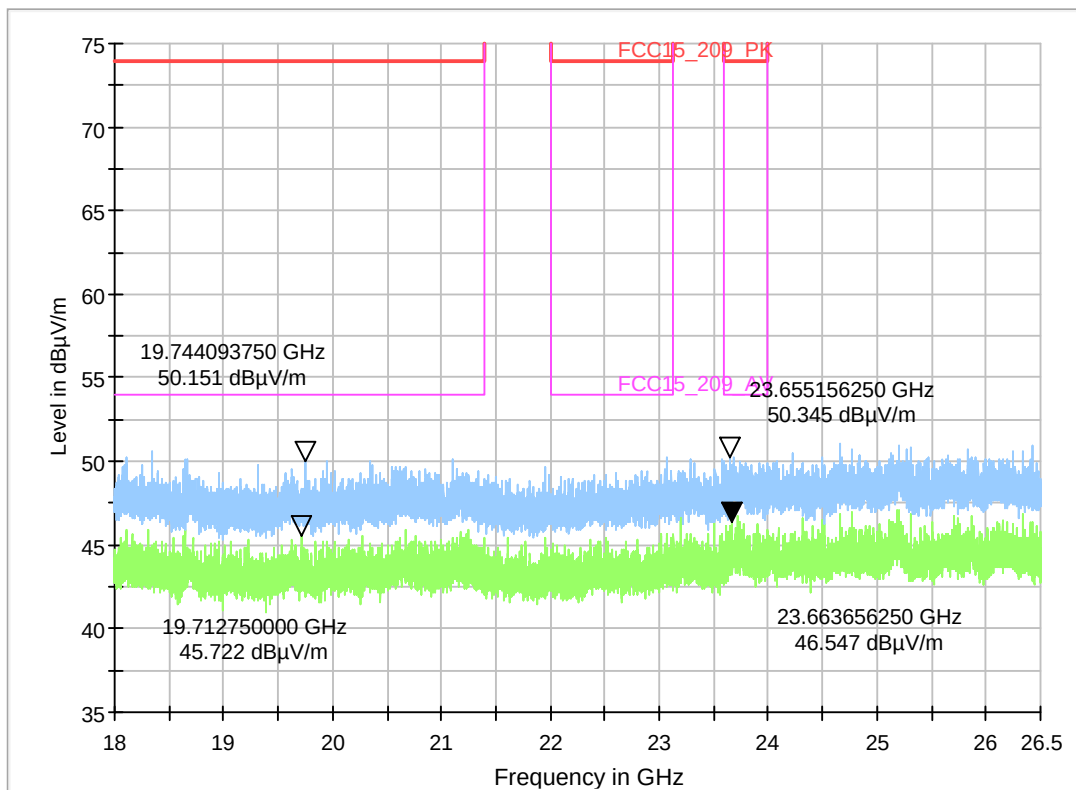
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAC2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BLE GFSK 1Mbps, 2480MHz, P:0
Environmental Conditions:	Humidity: 52 % rH; Temperature: 21.9 °C
SW-Version:	EMC32 V10.60.20
Operator:	Soz
Verdict:	Passed

EUT Information

PMT Sample Nr.:	57.818
Power:	internal battery

Full Spectrum



4.14_BLE_2M_low_Anth

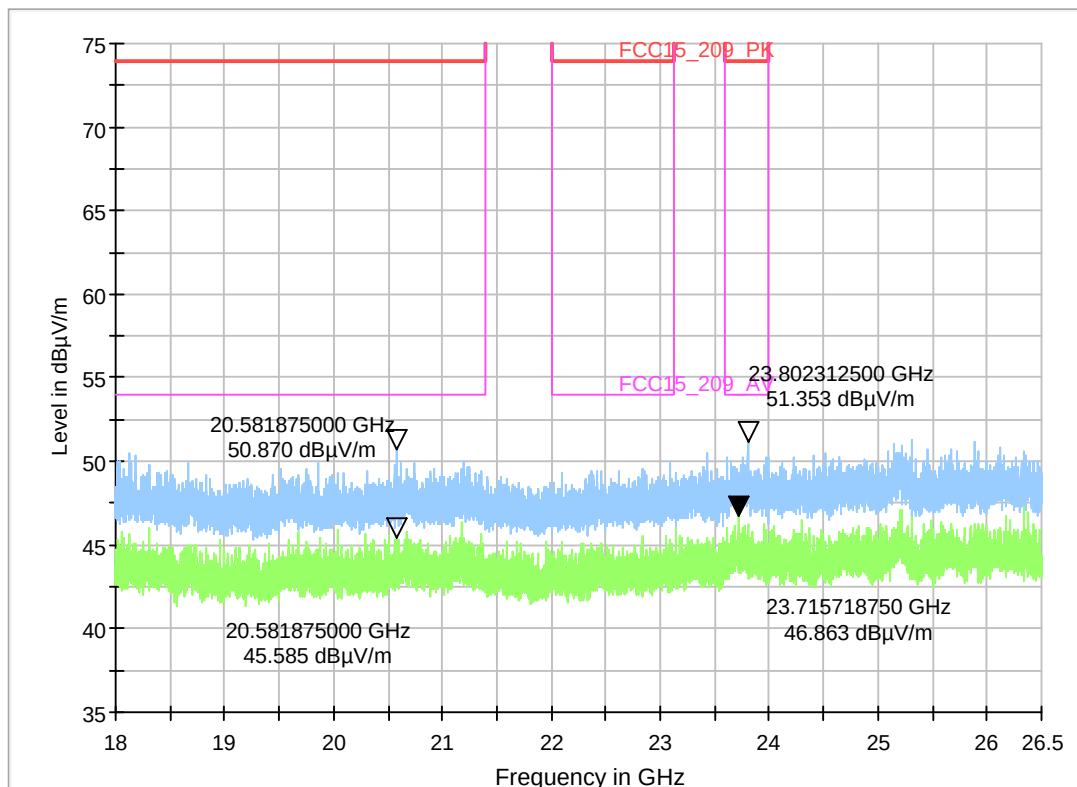
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAC2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BLE GFSK 2Mbps, 2404MHz, P:0
Environmental Conditions:	Humidity: 52 % rH; Temperature: 21.9 °C
SW-Version:	EMC32 V10.60.20
Operator:	SOz
Verdict:	Passed

EUT Information

PMT Sample Nr.:	57.818
Power:	internal battery

Full Spectrum



4.15_BLE_2M_low_AntV

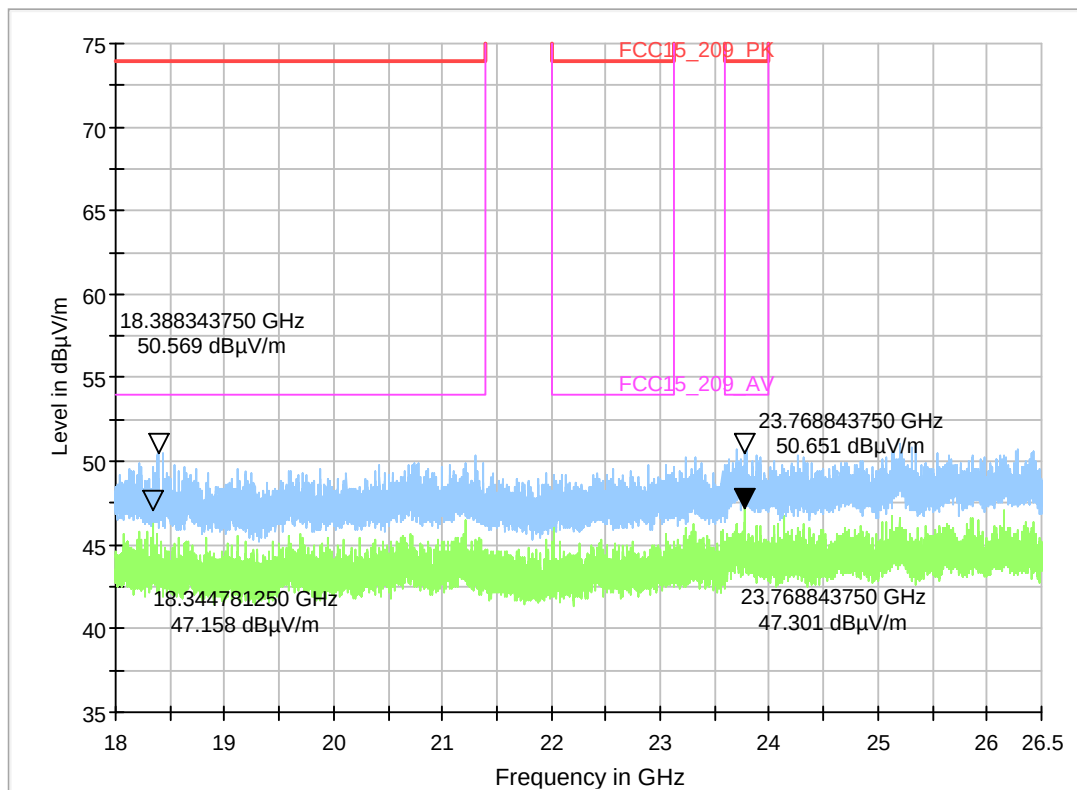
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAC2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BLE GFSK 2Mbps, 2404MHz, P:0
Environmental Conditions:	Humidity: 52 % rH; Temperature: 21.9 °C
SW-Version:	EMC32 V10.60.20
Operator:	SOz
Verdict:	Passed

EUT Information

PMT Sample Nr.:	57.818
Power:	internal battery

Full Spectrum



4.16_BLE_2M_mid_Anth

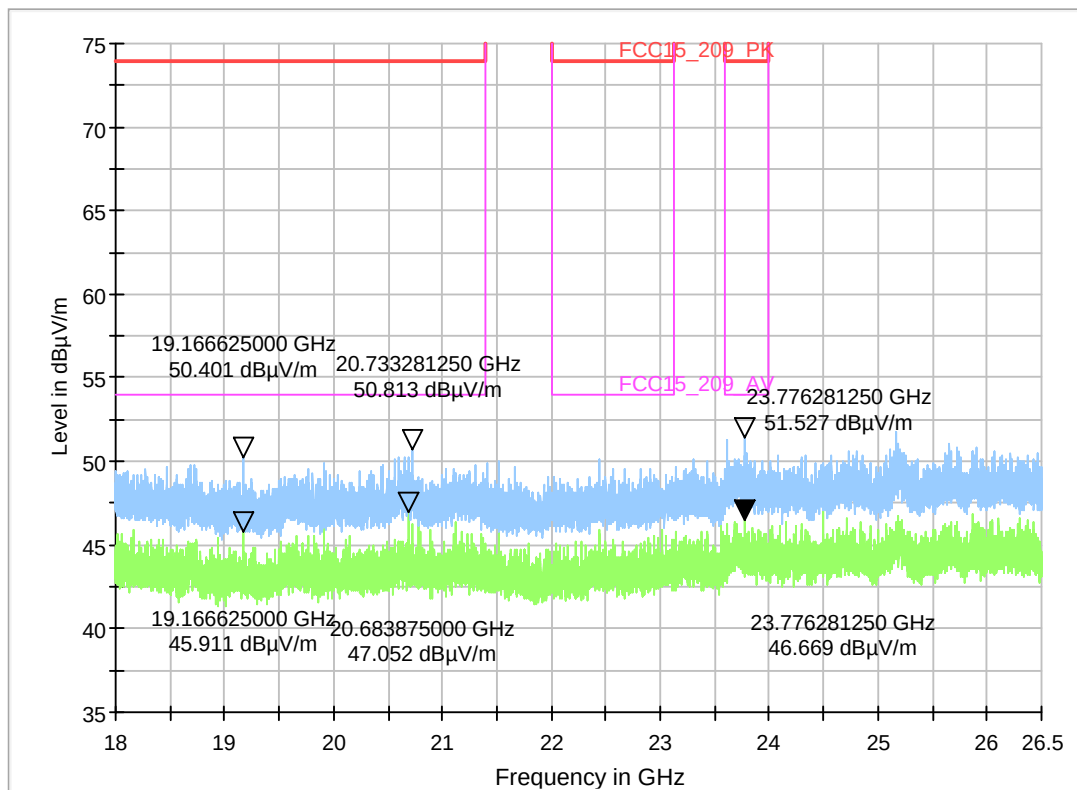
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAC2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BLE GFSK 2Mbps, 2440MHz, P:0
Environmental Conditions:	Humidity: 52 % rH; Temperature: 21.9 °C
SW-Version:	EMC32 V10.60.20
Operator:	SOz
Verdict:	Passed

EUT Information

PMT Sample Nr.:	57.818
Power:	internal battery

Full Spectrum



4.17_BLE_2M_mid_AntV

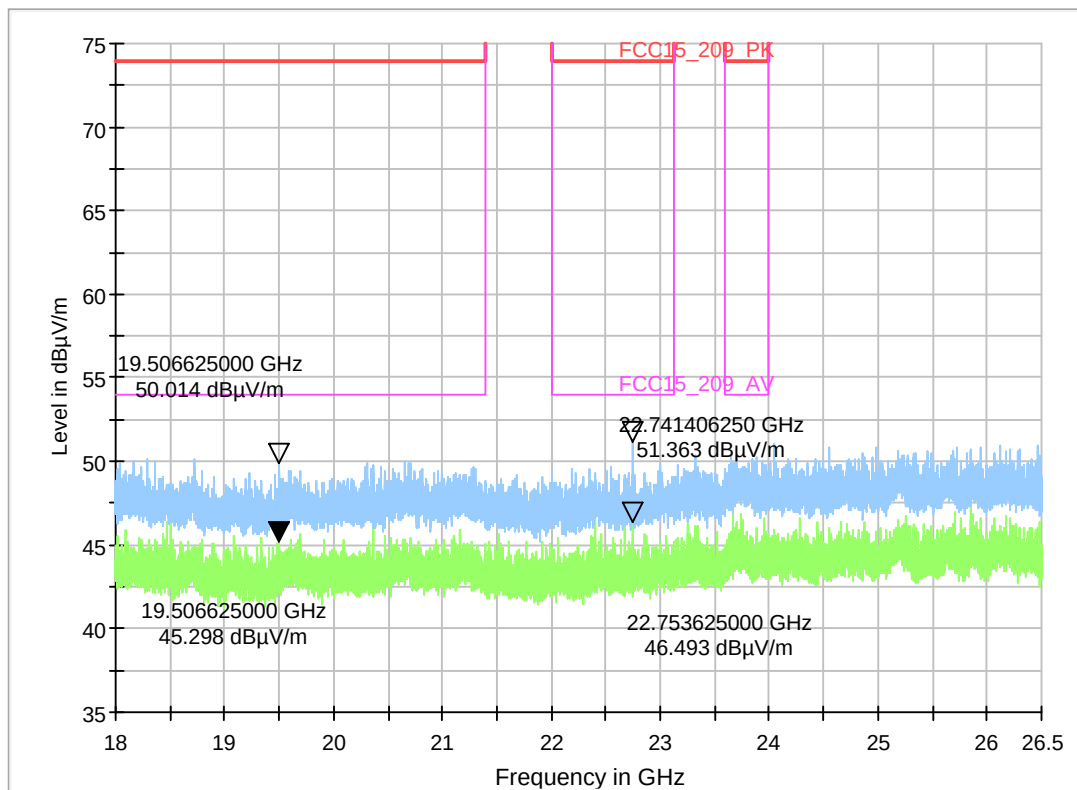
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAC2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BLE GFSK 2Mbps, 2440MHz, P:0
Environmental Conditions:	Humidity: 52 % rH; Temperature: 21.9 °C
SW-Version:	EMC32 V10.60.20
Operator:	Soz
Verdict:	Passed

EUT Information

PMT Sample Nr.:	57.818
Power:	internal battery

Full Spectrum



4.18_BLE_2M_high_AntH

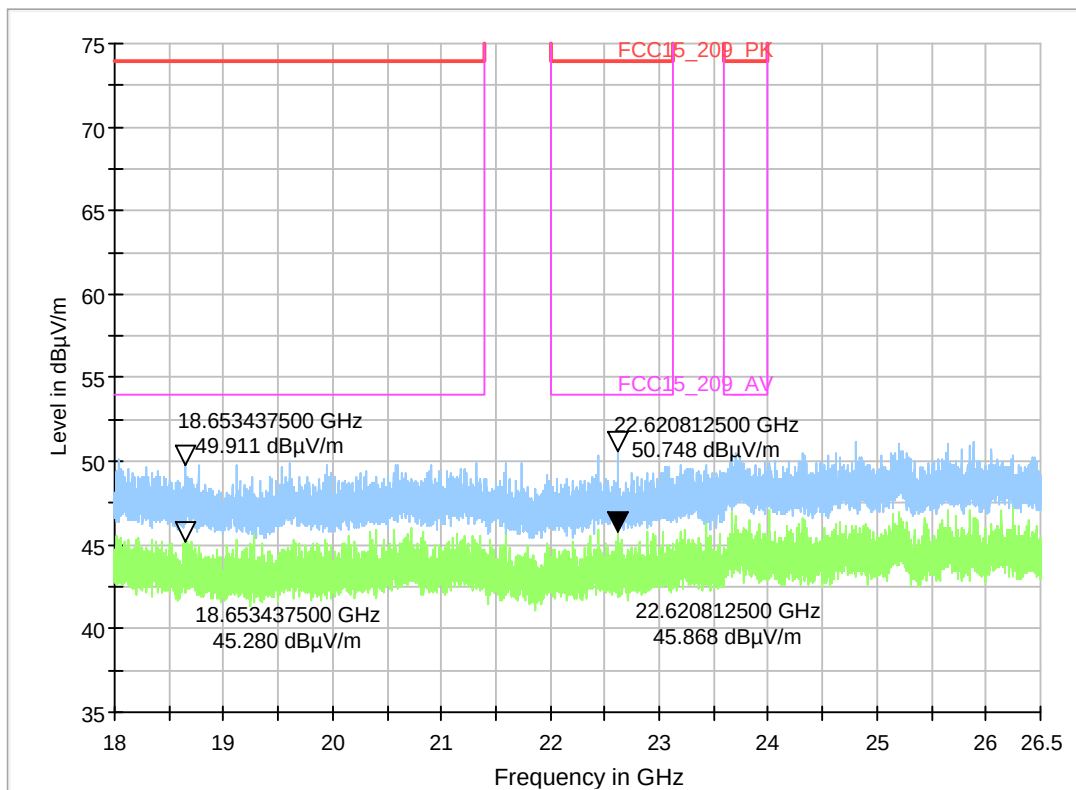
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAC2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BLE GFSK 2Mbps, 2478MHz, P:0
Environmental Conditions:	Humidity: 52 % rH; Temperature: 21.9 °C
SW-Version:	EMC32 V10.60.20
Operator:	SOz
Verdict:	Passed

EUT Information

PMT Sample Nr.:	57.818
Power:	internal battery

Full Spectrum



4.19_BLE_2M_high_AntV

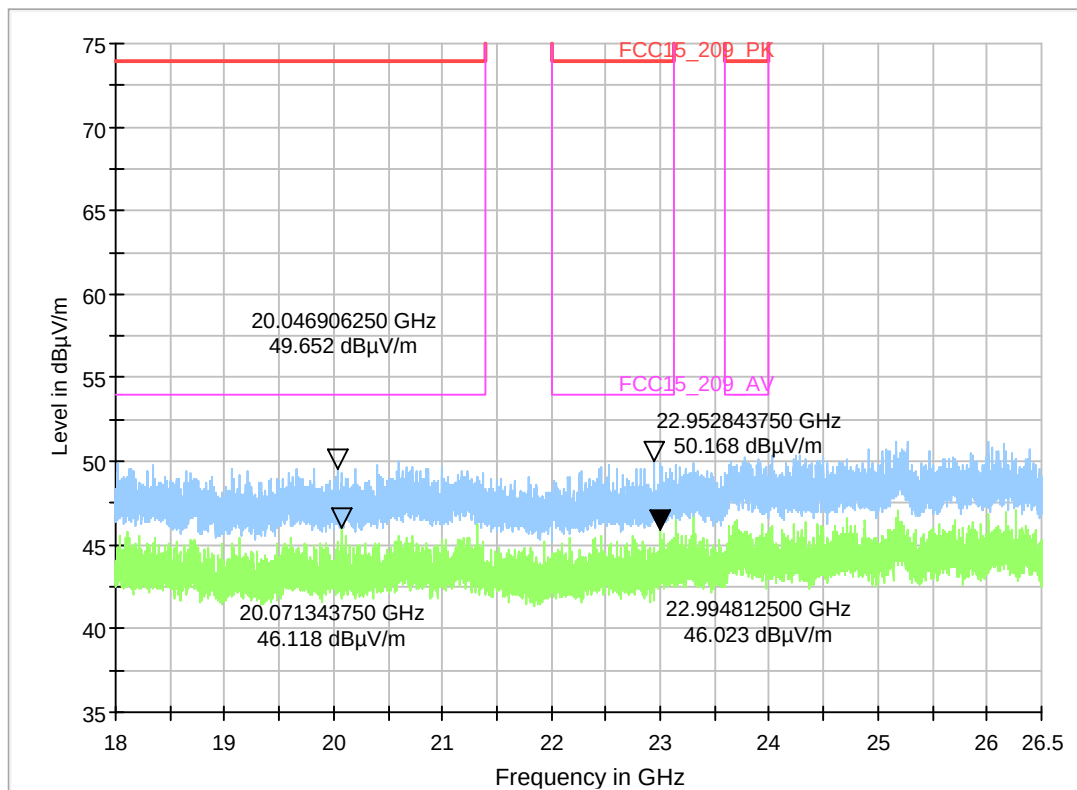
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAC2)
Test Standard:	FCC 15.209 & RSS-Gen, Issue 5
Operating Mode:	BLE GFSK 2Mbps, 2478MHz, P:0
Environmental Conditions:	Humidity: 52 % rH; Temperature: 21.9 °C
SW-Version:	EMC32 V10.60.20
Operator:	SOz
Verdict:	Passed

EUT Information

PMT Sample Nr.:	57.818
Power:	internal battery

Full Spectrum



9.01_BE_BLE_1M_low

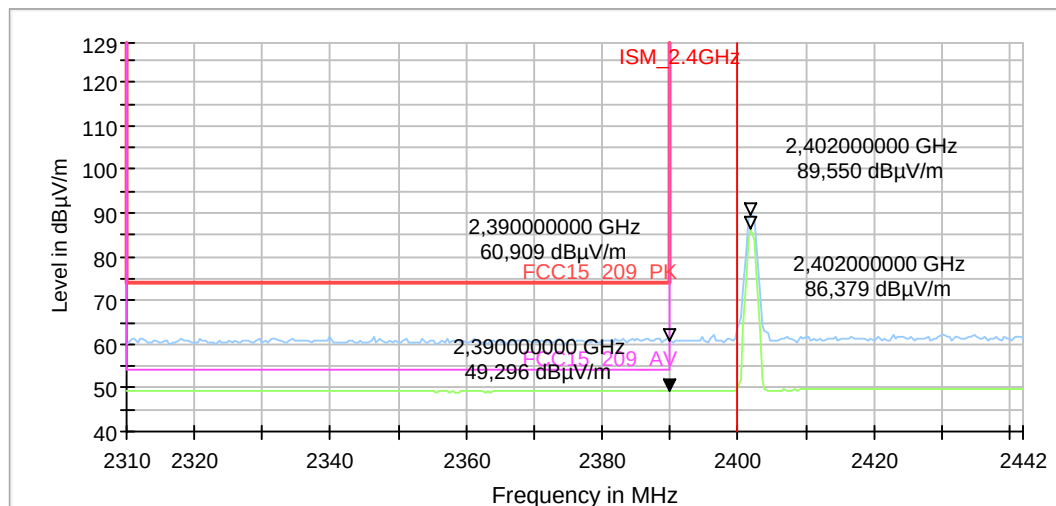
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BLE GFSK 1Mbps, 2402MHz, P:0
Operator:	TFra
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	57.818
Power Supply :	Internal battery

Full Spectrum



9.02_BE_BLE_1M_high

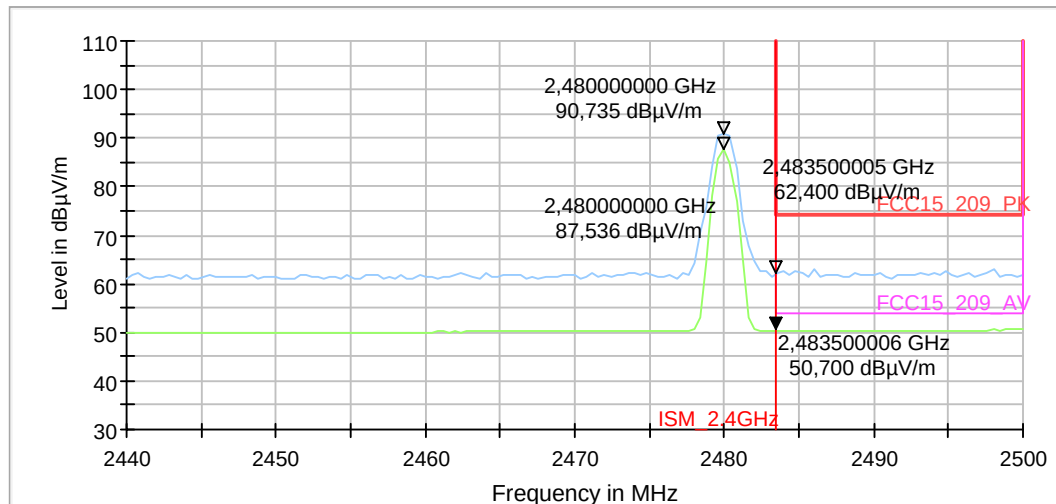
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BLE GFSK 1Mbps, 2480MHz, P:0
Operator:	TFra
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	57.818
Power Supply :	Internal battery

Full Spectrum



9.03_BE_BLE_2M_low

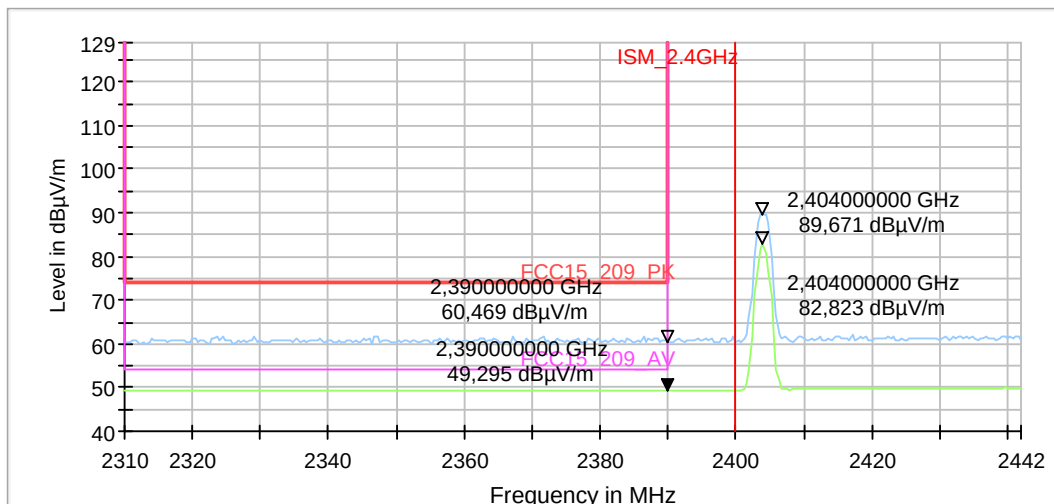
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BLE GFSK 2Mbps, 2404MHz, P:0
Operator:	TFra
Comment:	Channel no. low
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	57.818
Power Supply :	Internal battery

Full Spectrum



9.04_BE_BLE_2M_high

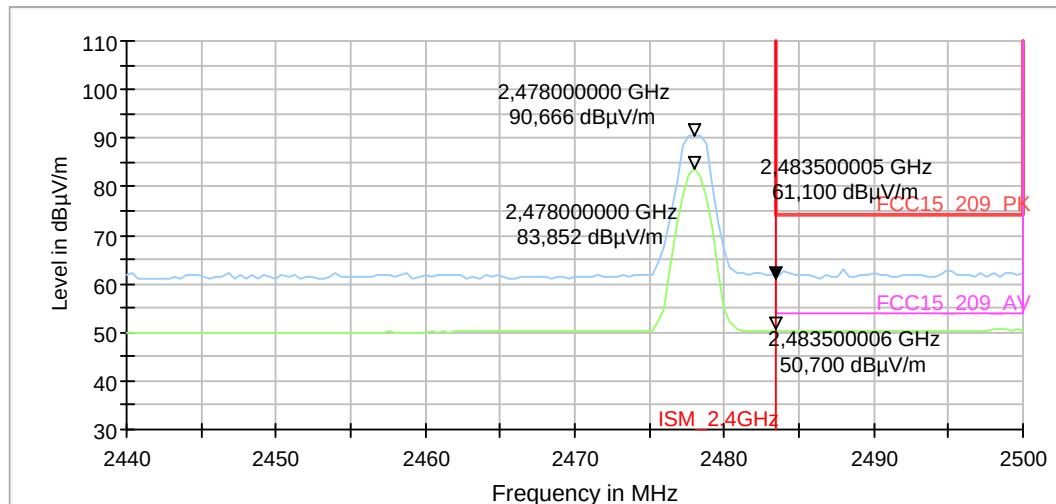
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	BLE GFSK 2Mbps, 2478MHz, P:0
Operator:	TFra
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	57.818
Power Supply :	Internal battery

Full Spectrum



Document History

Release	Applied changes	Release date
R01	Initial release	July 22, 2026

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