

Annex 1: Measurement diagrams 22-1-0025001T05a-C01-A1

Number of pages:	119	Date of Report:	2023-Jan-05
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:	Giraffe360 SIA
Product: Model:	360 Degree Camera GRF-400		
FCC ID:	2A8A7-V599	IC:	28899-3Q30
Testing has been carried out in accordance with:	FCC Regulations Title 47 CFR, Chapter I, Subchapter A, Part 15 Subpart C Intentional Radiators § 15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz ISED-Regulations Radio Standards Specification RSS-Gen, Issue 5 General Requirements for Compliance of Radio Apparatus RSS-247, Issue 2 Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Device		



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1 Measurement diagrams

1.1 AC-Power lines Conducted Emissions

1.01_BLE

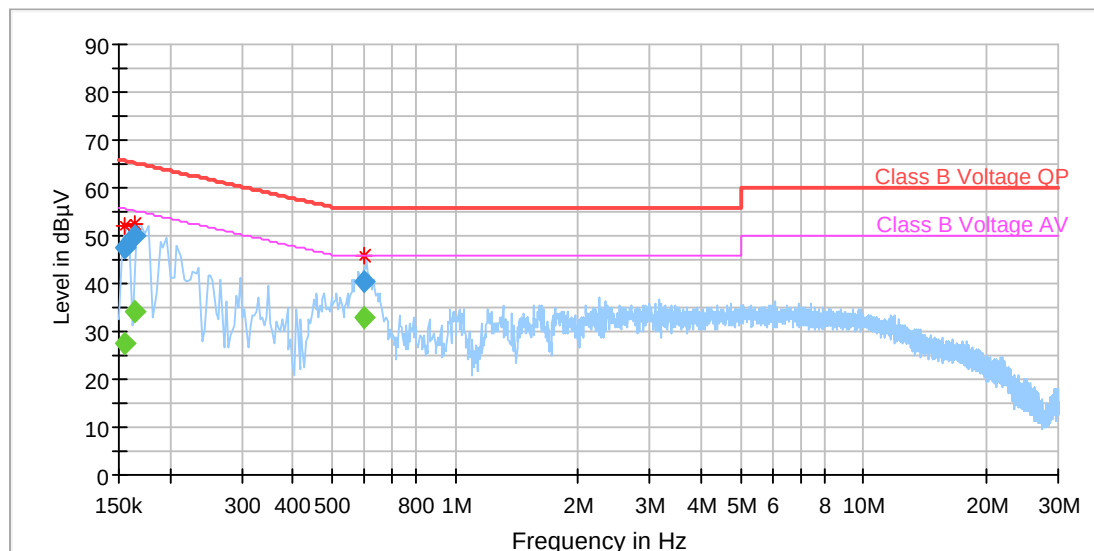
Common Information

Test Description:	Conducted Voltage Measurement Class B
Test Site Location:	Conducted Emission, CETECOM GmbH Essen
Test Software:	R&S EMC32 v9.15
Test Standard:	FCC 15.107, FCC 15.207
Operating Mode:	Op.1
Measured on line:	N/L1
Diagram details:	Shows the peak values as a sum of measured ports in maxhold mode
Environmental Conditions:	Humidity: 31%rH; Temperature: 21°C
Operator:	PMa
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.154844	47.65	---	65.74	18.09	1000.0	9.000	L1	GND	0.1
0.154844	---	27.43	55.74	28.31	1000.0	9.000	L1	GND	0.1
0.165000	50.01	---	65.21	15.20	1000.0	9.000	L1	GND	0.1
0.165000	---	34.36	55.21	20.85	1000.0	9.000	L1	GND	0.1
0.599531	---	32.71	46.00	13.29	1000.0	9.000	L1	GND	0.2
0.599531	40.40	---	56.00	15.60	1000.0	9.000	L1	GND	0.2

1.2 Radiated measurements

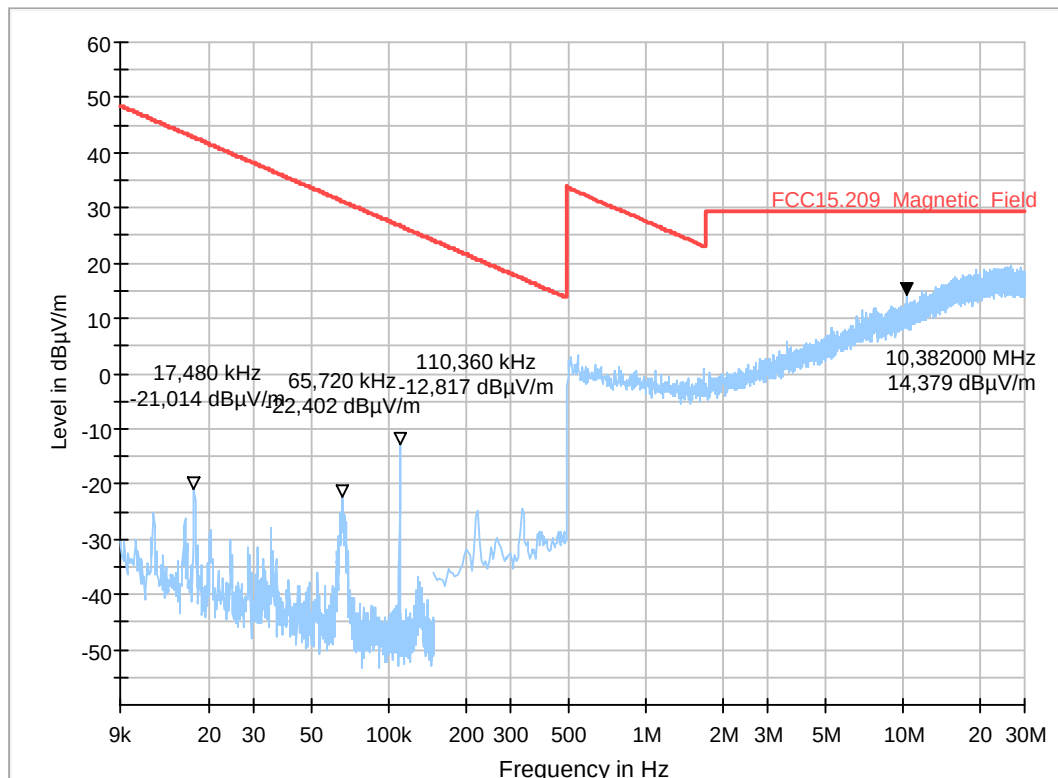
2.01a_BLE_ch00

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 15.225 § 15.209; RSS-Gen: Issue 5
Operator:	SOz
Operating Mode:	GFSK 1Mbit ch00
Power during tests:	Li-Ion battery, charging
Comment 1:	Channel low
Environmental Conditions:	Humidity : 50%rH; Temperature: 21°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C01
	Full Spectrum



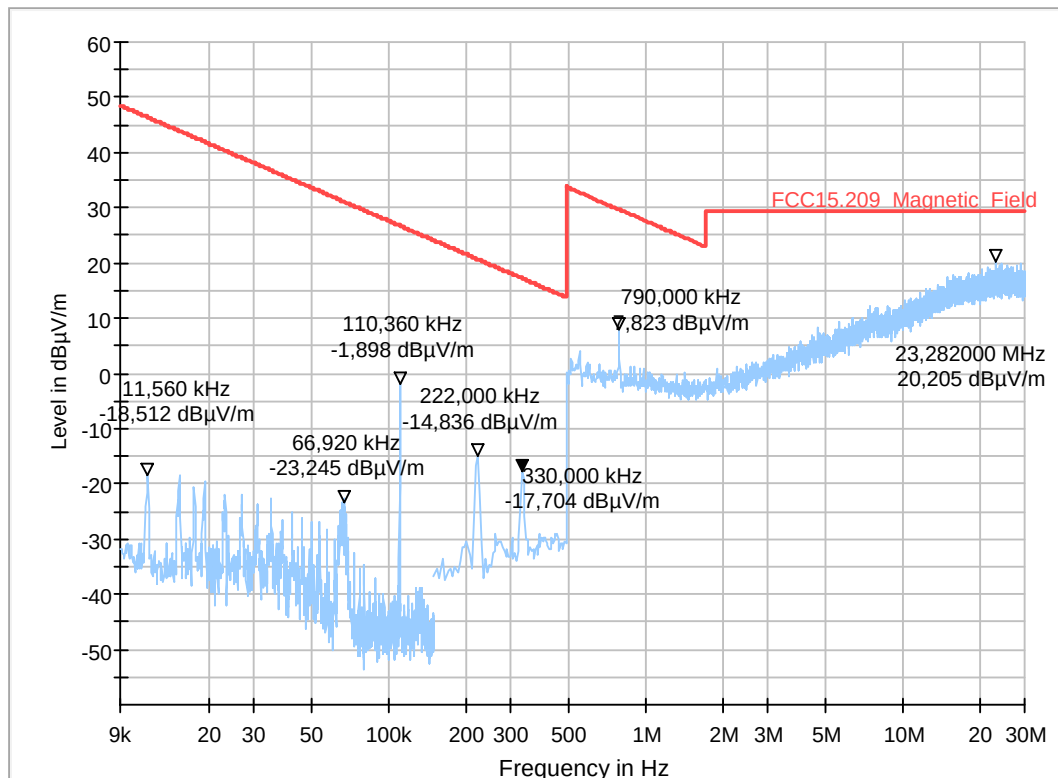
2.01b_BLE_ch00

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 15.225 § 15.209; RSS-Gen: Issue 5
Operator:	SOz
Operating Mode:	GFSK 1Mbit ch00
Power during tests:	Li-Ion battery, charging
Comment 1:	Channel low
Comment 2:	
Environmental Conditions::	Humidity : 50%rH; Temperature: 21°C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number	22-1-00250S04_C02
	Full Spectrum



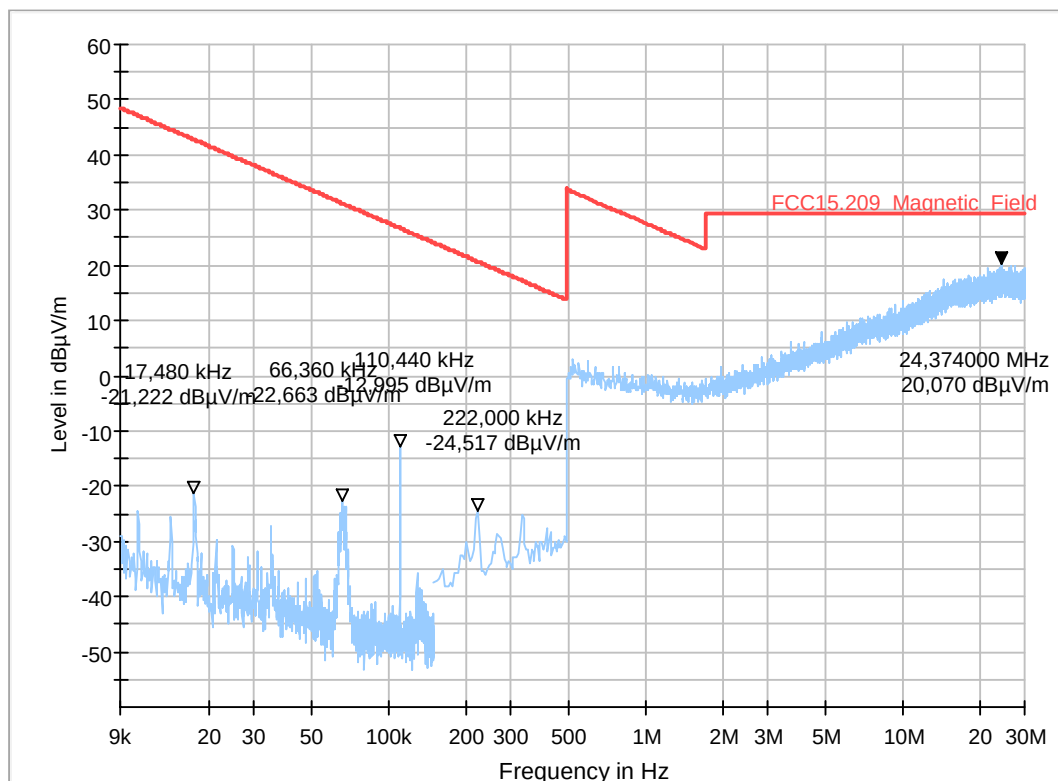
2.02a_BLE_ch19

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 15.225 § 15.209; RSS-Gen: Issue 5
Operator:	SOz
Operating Mode:	GFSK 2Mbit ch19
Power during tests:	Li-Ion battery, charging
Comment 1:	Channel mid
Comment 2:	
Environmental Conditions::	Humidity : 50%rH; Temperature: 21°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
	Full Spectrum



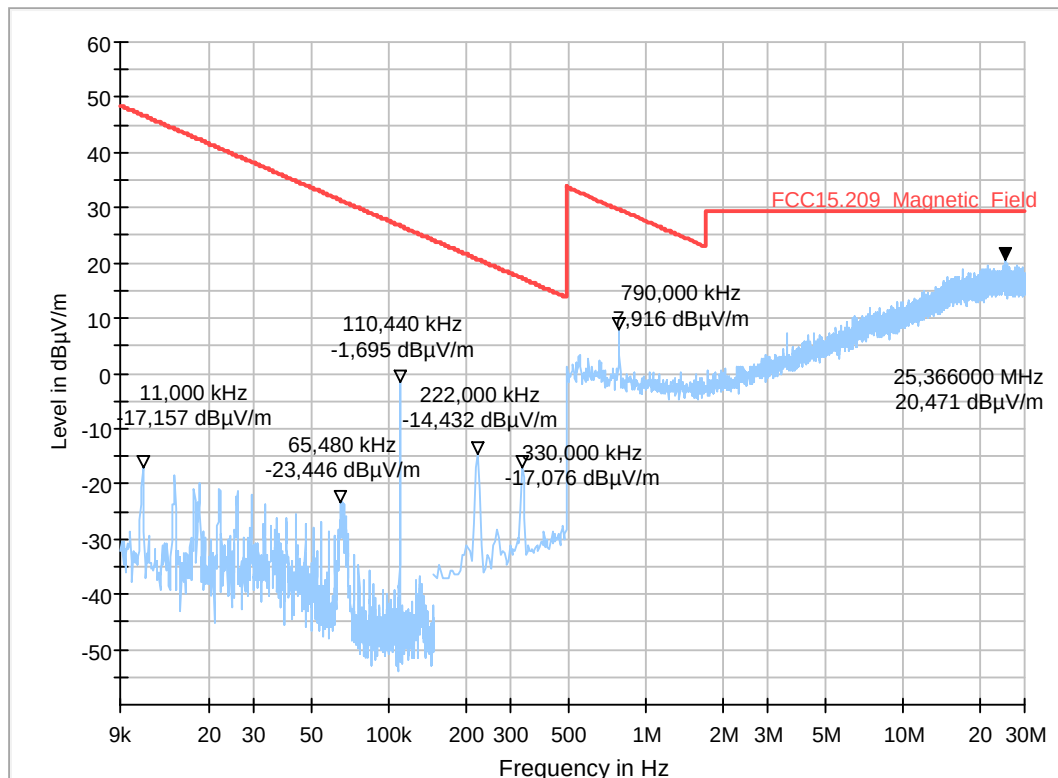
2.02b_BLE_ch19

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 15.225 § 15.209; RSS-Gen: Issue 5
Operator:	SOz
Operating Mode:	GFSK 2Mbit ch19
Power during tests:	Li-Ion battery, charging
Comment 1:	Channel mid
Comment 2:	
Environmental Conditions::	Humidity : 50%rH; Temperature: 21°C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number	22-1-00250S04_C02
	Full Spectrum



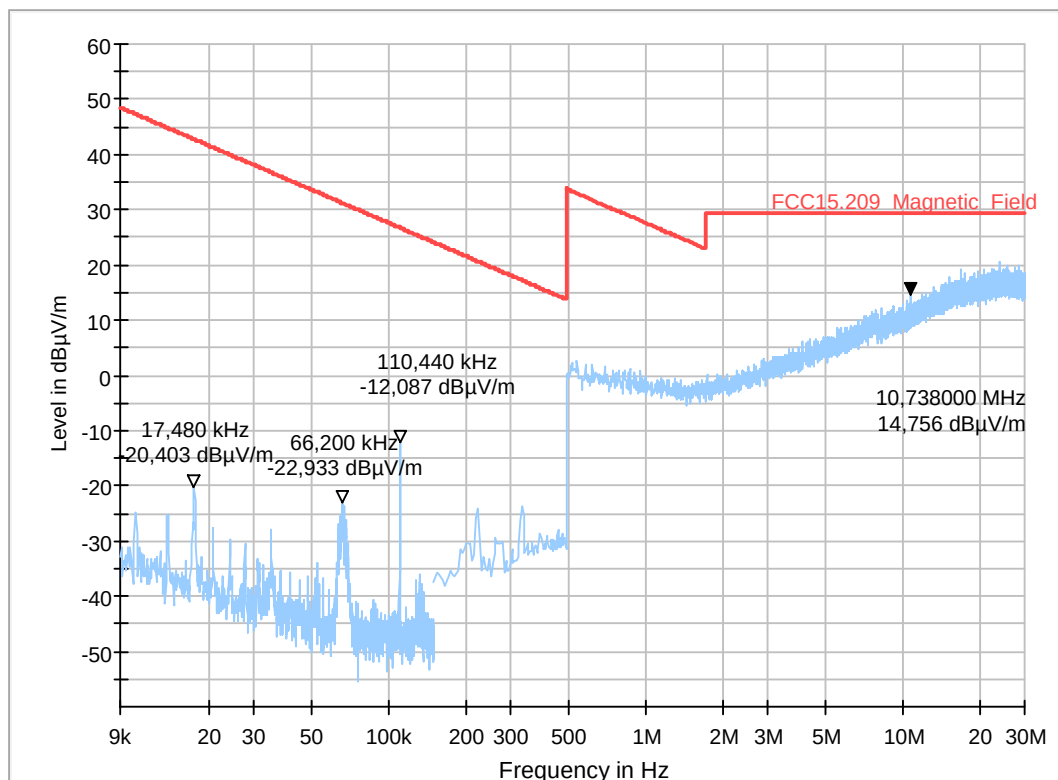
2.03a_BLE_ch39

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 15.225 § 15.209; RSS-Gen: Issue 5
Operator:	SOz
Operating Mode:	GFSK 2Mbit ch39
Power during tests:	Li-Ion battery, charging
Comment 1:	Channel mid
Comment 2:	
Environmental Conditions::	Humidity : 50%rH; Temperature: 21°C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	22-1-00250S04_C02
	Full Spectrum



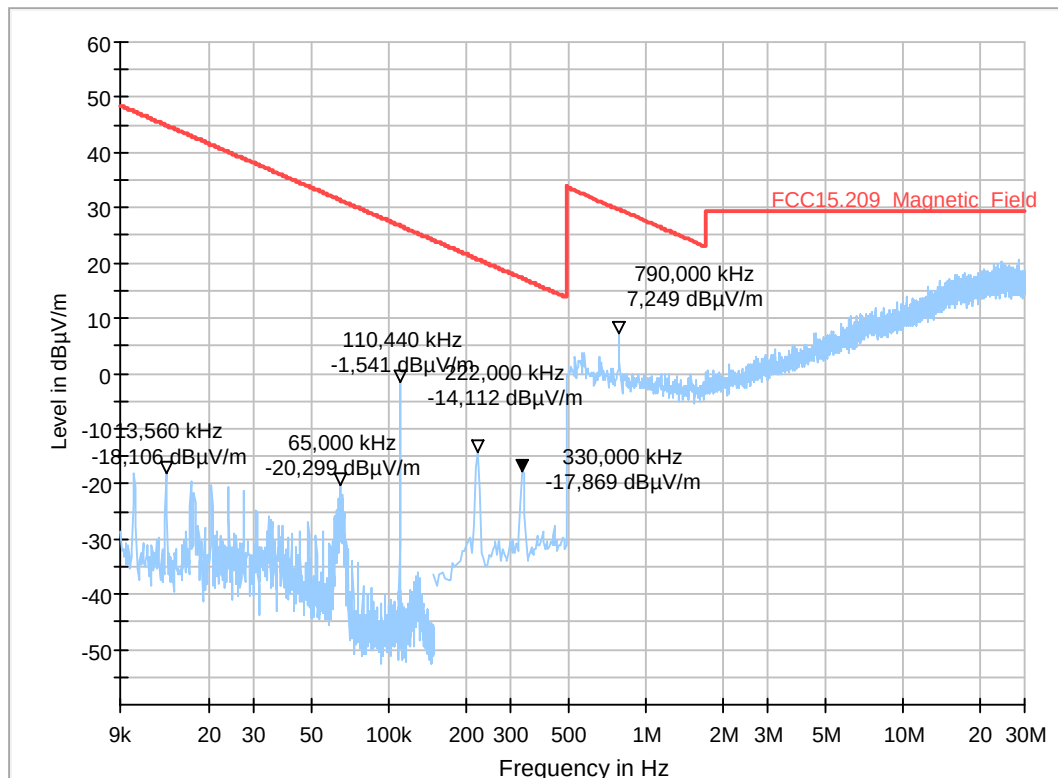
2.03b_BLE_ch39

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 15.225 § 15.209; RSS-Gen: Issue 5
Operator:	SOz
Operating Mode:	GFSK 2Mbit ch39
Power during tests:	Li-Ion battery, charging
Comment 1:	Channel mid
Comment 2:	
Environmental Conditions:	Humidity : 50%rH; Temperature: 21°C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	22-1-00250S04_C02
	Full Spectrum



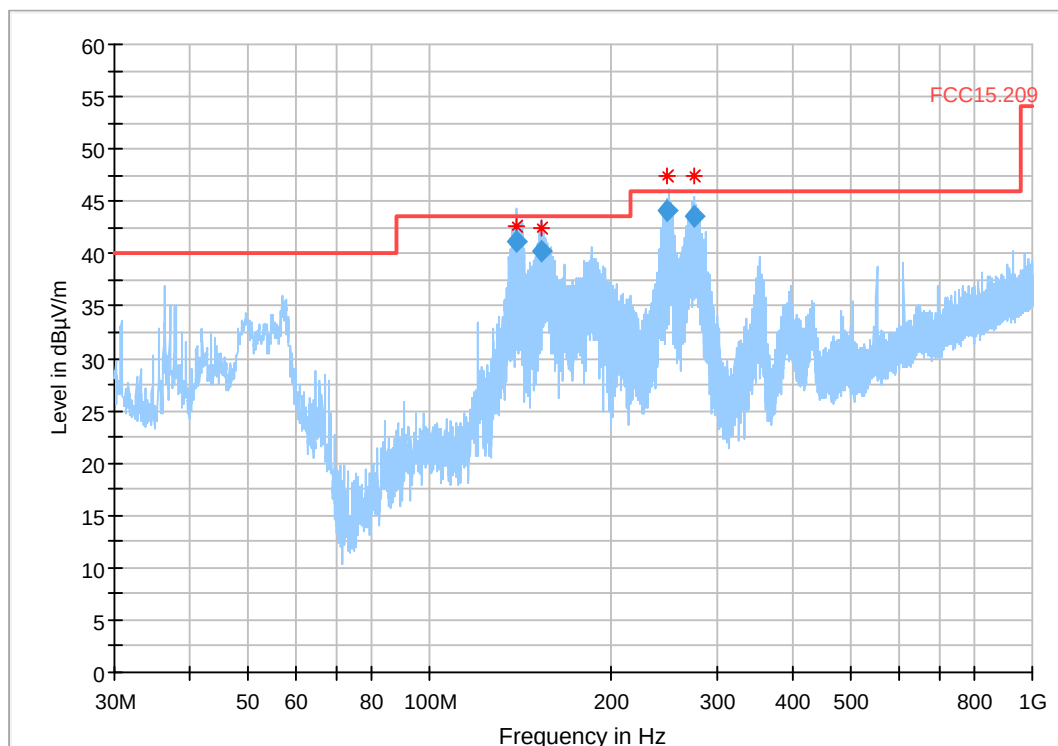
3.01a_BLE_ch00

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
Antenna polarisation:	horizontal/vertical
Environmental Conditions::	Humidity : 45%rH; Temperature: 21°C
Operator Name:	HLa
Operating Mode:	GFSK 1Mbit ch00
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Comment
139.710000	41.22	43.50	2.28	120.000	107.0	V	92.0	16:10:35 - 08.09.2022
153.150000	40.28	43.50	3.22	120.000	112.0	V	39.0	16:15:16 - 08.09.2022
248.630000	44.04	46.00	1.96	120.000	111.0	H	268.0	16:00:29 - 08.09.2022
275.510000	43.62	46.00	2.38	120.000	107.0	H	293.0	16:05:18 - 08.09.2022

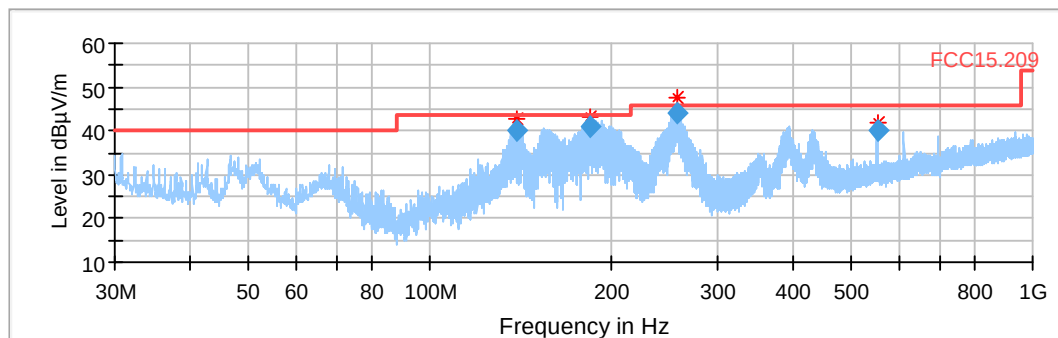
3.01b_BLE_ch00

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
Antenna polarisation:	horizontal/vertical
Environmental Conditions::	Humidity : 41%rH; Temperature: 21°C
Operator Name:	NPe/LKnopp
Operating Mode:	BLE
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
139.670000	40.06	43.50	3.44	120.000	105.0	V	29.0	8.1	0.0	1.1
184.710000	41.13	43.50	2.37	120.000	154.0	H	257.0	10.8	0.0	1.3
256.650000	43.86	46.00	2.14	120.000	100.0	H	23.0	13.3	0.0	1.6
551.990000	40.11	46.00	5.89	120.000	109.0	V	179.0	22.3	0.0	2.5

(continuation of the "Final_Result" table from column 18 ...)

Frequency (MHz)	Trd Corr. (dB/m)	Raw Rec (dBµV)	Comment
139.670000	7.0	31.9	11:09:14 - 29.09.2022
184.710000	9.5	30.4	10:58:51 - 29.09.2022
256.650000	11.7	30.6	11:04:21 - 29.09.2022
551.990000	19.8	17.8	11:14:15 - 29.09.2022

3.02a_BLE_ch19

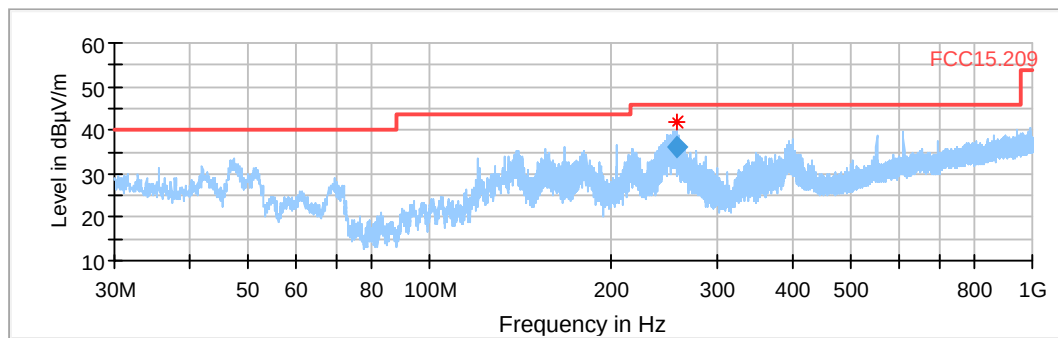
Common Information

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
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity : 41%rH; Temperature: 21°C
 Operator Name: NPe/LKnopp
 Operating Mode: BLE
 Verdict: Passed

EUT Information

PMT number: 22-1-00250S04_C02



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
257.350000	35.91	46.00	10.09	120.000	121.0	H	129.0	13.3	0.0	1.6

(continuation of the "Final_Result" table from column 18 ...)

Frequency (MHz)	Trd Corr. (dB/m)	Raw Rec (dBµV)	Comment
257.350000	11.7	22.6	13:33:34 - 29.09.2022

3.02b_BLE_ch19_Pass

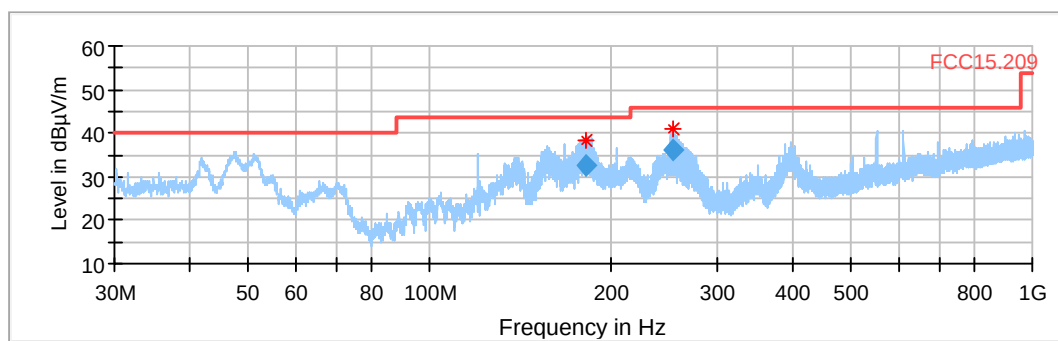
Common Information

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
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity : 41%rH; Temperature: 21°C
 Operator Name: NPe/LKnopp
 Operating Mode: BLE
 Verdict: Passed

EUT Information

PMT number: 22-1-00250S04_C02



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
181.570000	32.52	43.50	10.98	120.000	164.0	H	243.0	10.6	0.0	1.2
253.950000	35.91	46.00	10.09	120.000	100.0	H	29.0	13.1	0.0	1.6

(continuation of the "Final_Result" table from column 18 ...)

Frequency (MHz)	Trd Corr. (dB/m)	Raw Rec (dBµV)	Comment
181.570000	9.3	21.9	15:16:53 - 29.09.2022
253.950000	11.5	22.8	15:11:26 - 29.09.2022

3.03a_BLE_ch39

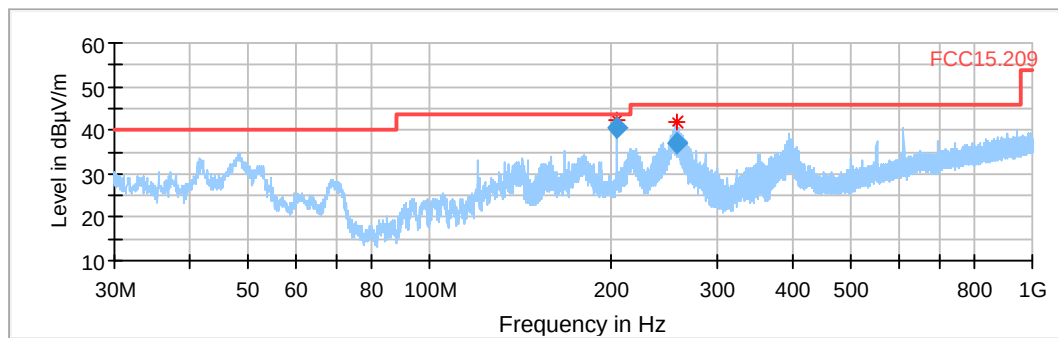
Common Information

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
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity : 41%rH; Temperature: 21°C
 Operator Name: NPe/LKnopp
 Operating Mode: BLE
 Verdict: Passed

EUT Information

PMT number: 22-1-00250S04_C02



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
203.990000	40.65	43.50	2.85	120.000	105.0	V	209.0	11.1	0.0	1.4
256.430000	36.82	46.00	9.18	120.000	104.0	H	124.0	13.3	0.0	1.6

(continuation of the "Final_Result" table from column 18 ...)

Frequency (MHz)	Trd Corr. (dB/m)	Raw Rec (dBµV)	Comment
203.990000	9.7	29.6	14:06:47 - 29.09.2022
256.430000	11.7	23.6	14:01:43 - 29.09.2022

3.03b_BLE_ch39

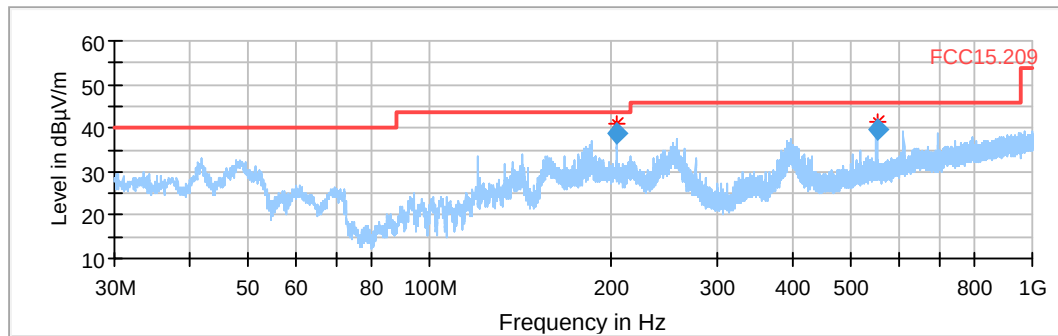
Common Information

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
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity : 41%rH; Temperature: 21°C
 Operator Name: NPe/LKnopp
 Operating Mode: BLE
 Verdict: Passed

EUT Information

PMT number: 22-1-00250S04_C02



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
203.990000	38.98	43.50	4.52	120.000	105.0	V	0.0	11.1	0.0	1.4
552.030000	39.80	46.00	6.20	120.000	105.0	V	173.0	22.3	0.0	2.5

(continuation of the "Final_Result" table from column 18 ...)

Frequency (MHz)	Trd Corr. (dB/m)	Raw Rec (dBµV)	Comment
203.990000	9.7	27.9	14:30:05 - 29.09.2022
552.030000	19.8	17.5	14:35:09 - 29.09.2022

4.01a_BLE_ch00

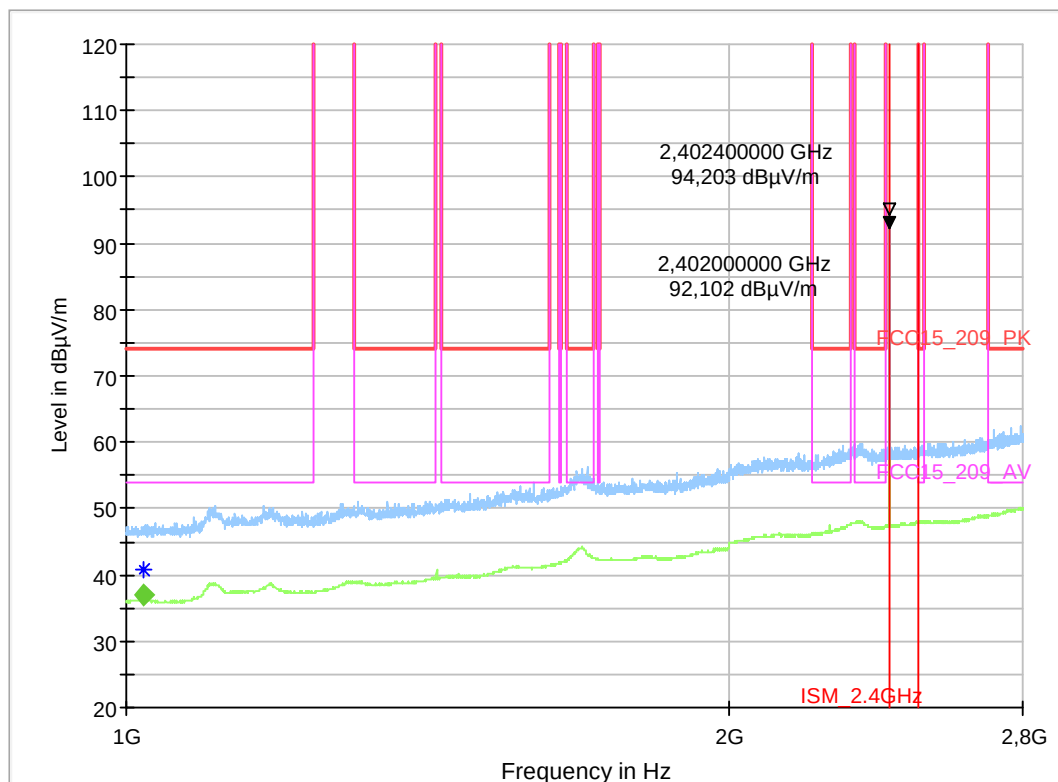
Common Information

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: GFSK | 1 Mbit | ch00
 Set-up no. 1
 Operator: SSanthakum
 Comment: Channel no. low
 Comment2: --
 Environmental Conditions: Humidity : 40%rH; Temperature: 20°C
 Verdict: Passed

EUT Information

PMT number: 22-1-00250S04_C02
 Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
1020.000000	---	37.08	54.00	16.92	100.0	1000.000	155.0	H	146.0	0.0

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

Frequency (MHz)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBµV)	Comment
1020.000000	27	5	0	22	---	19:25:08 - 08.09.2022

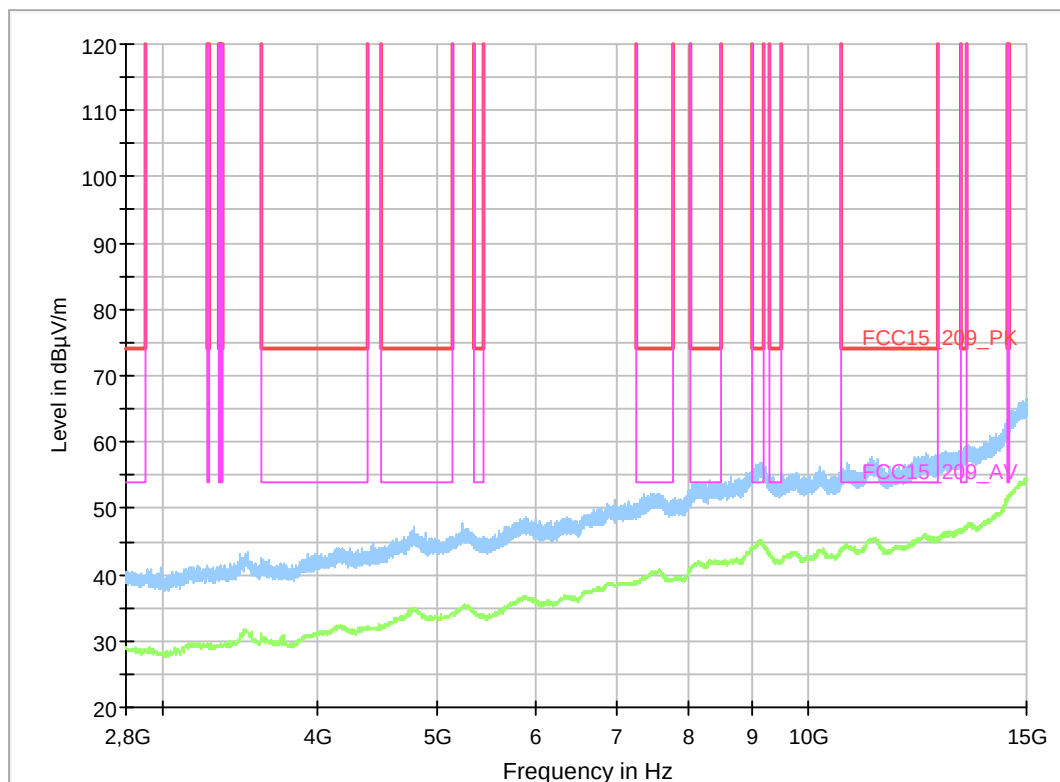
4.01b_BLE_ch00

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 1Mbit ch00
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. low
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C01
	Full Spectrum



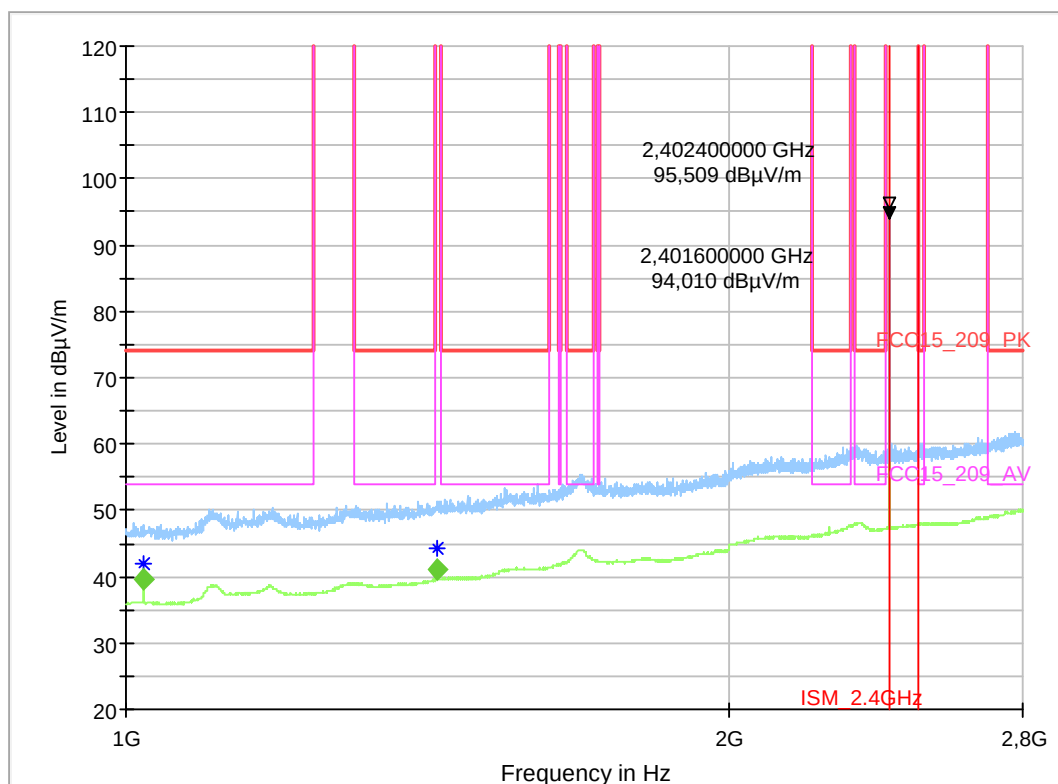
4.01c_BLE_ch00

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:	GFSK 1 Mbit ch00
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. low
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
	Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
1020.000000	---	39.52	54.00	14.48	100.0	1000.000	155.0	H	184.0	0.0
1428.000000	---	41.11	150.00	108.89	100.0	1000.000	155.0	V	6.0	0.0

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

Frequency (MHz)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)	Comment
1020.000000	27	5	0	22	---	19:46:27 - 08.09.2022
1428.000000	31	6	0	25	---	19:48:19 - 08.09.2022

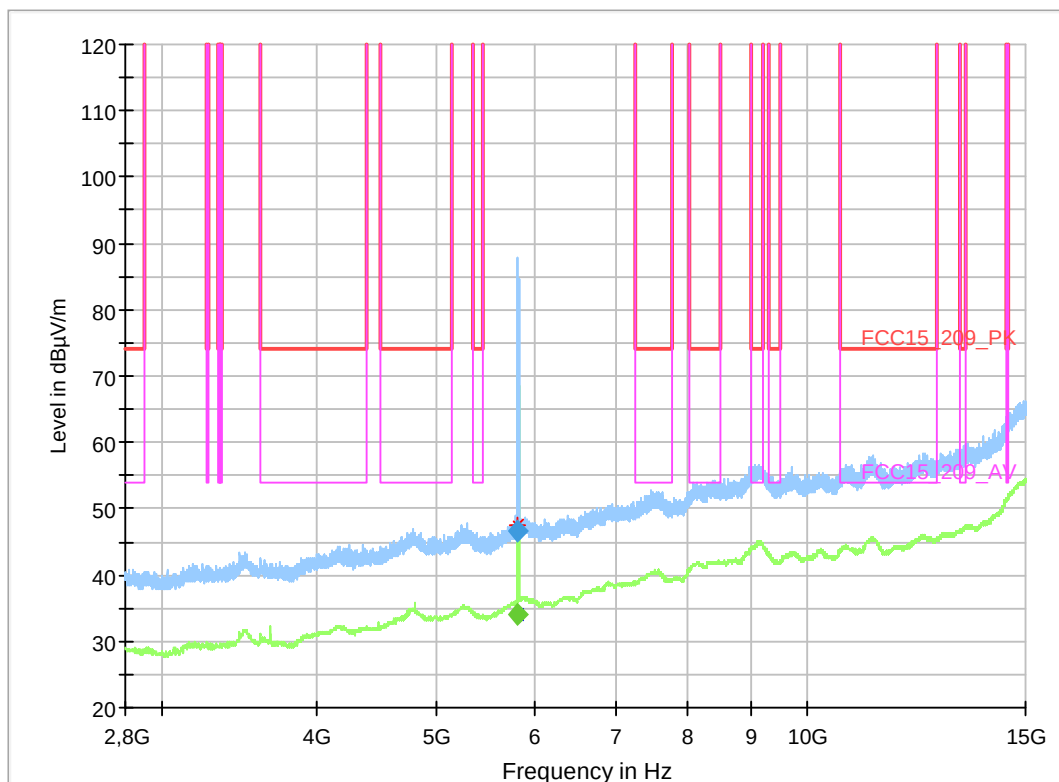
4.01d_BLE_ch00

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 1Mbit ch00
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. low
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C01
	Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
5825.200000	---	34.05	150.00	115.95	100.0	1000.000	155.0	V	327.0	0.0
5825.200000	46.64	---	150.00	103.36	100.0	1000.000	155.0	V	314.0	0.0

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

Frequency (MHz)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)	Comment
5825.200000	12	-26	0	38	---	17:37:22 - 02.09.2022
5825.200000	12	-26	0	38	---	17:35:59 - 02.09.2022

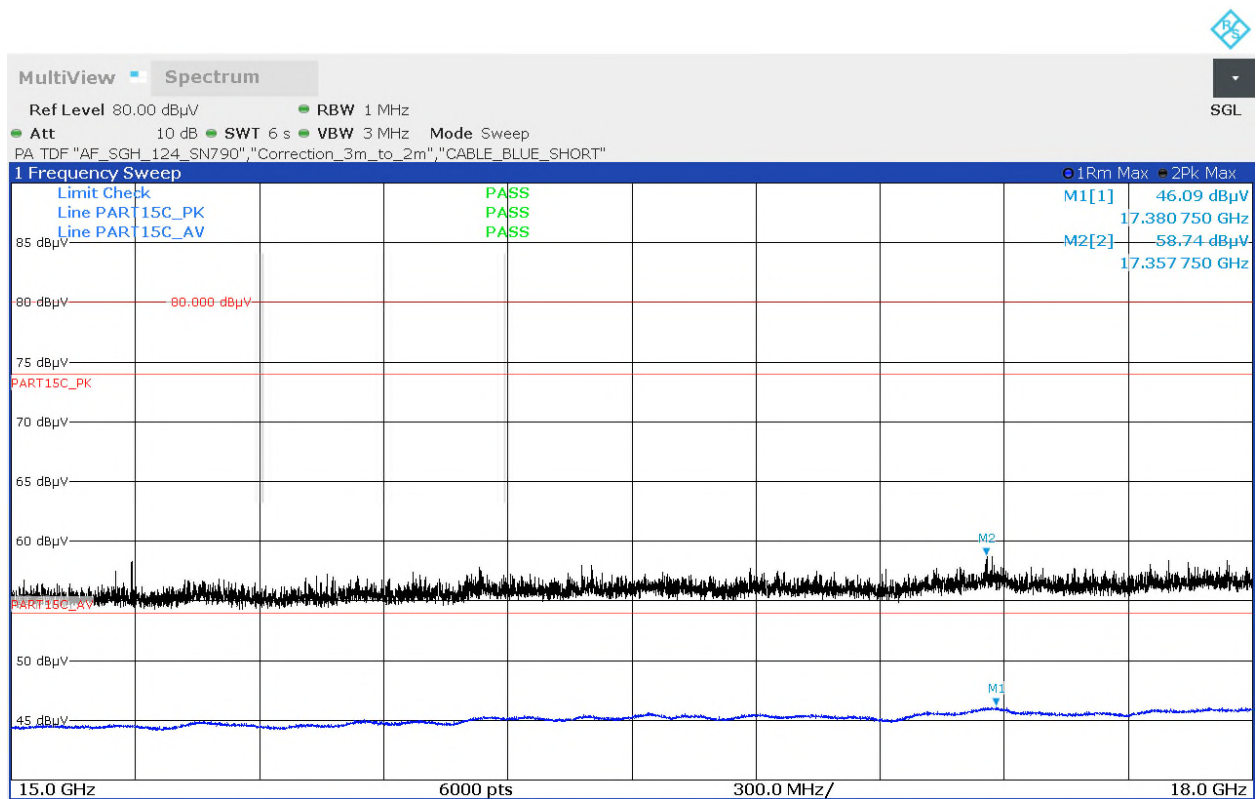
4.01e_BLE_Ch0_EUT_laying_AntH

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:	GFSK 1 Mbit ch00
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. low
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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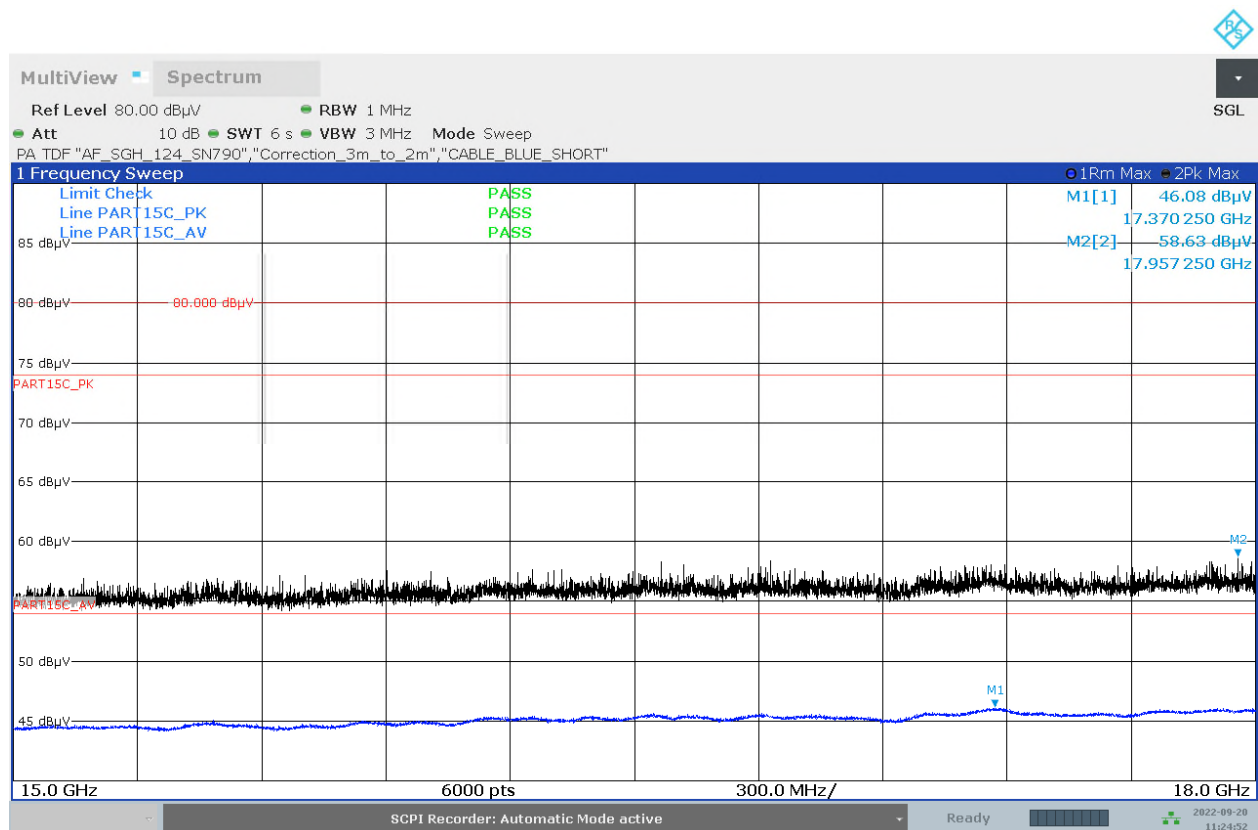
4.01f_BLE_Ch0_EUT_laying_AntV

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:	GFSK 1 Mbit ch00
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. low
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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11:24:53 AM 09/20/2022

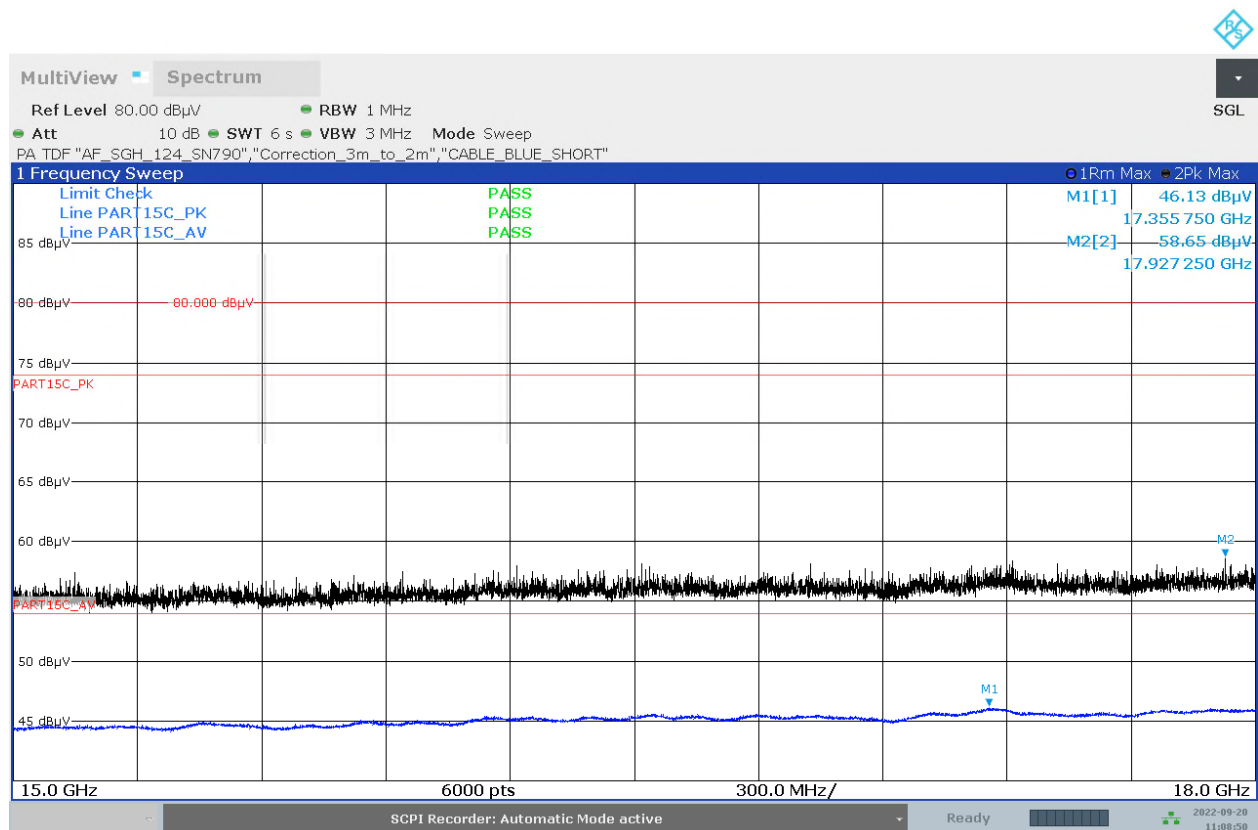
4.01g_BLE_Ch0_EUT_standing_AntH

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:	GFSK 1 Mbit ch00
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. low
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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11:08:51 AM 09/20/2022

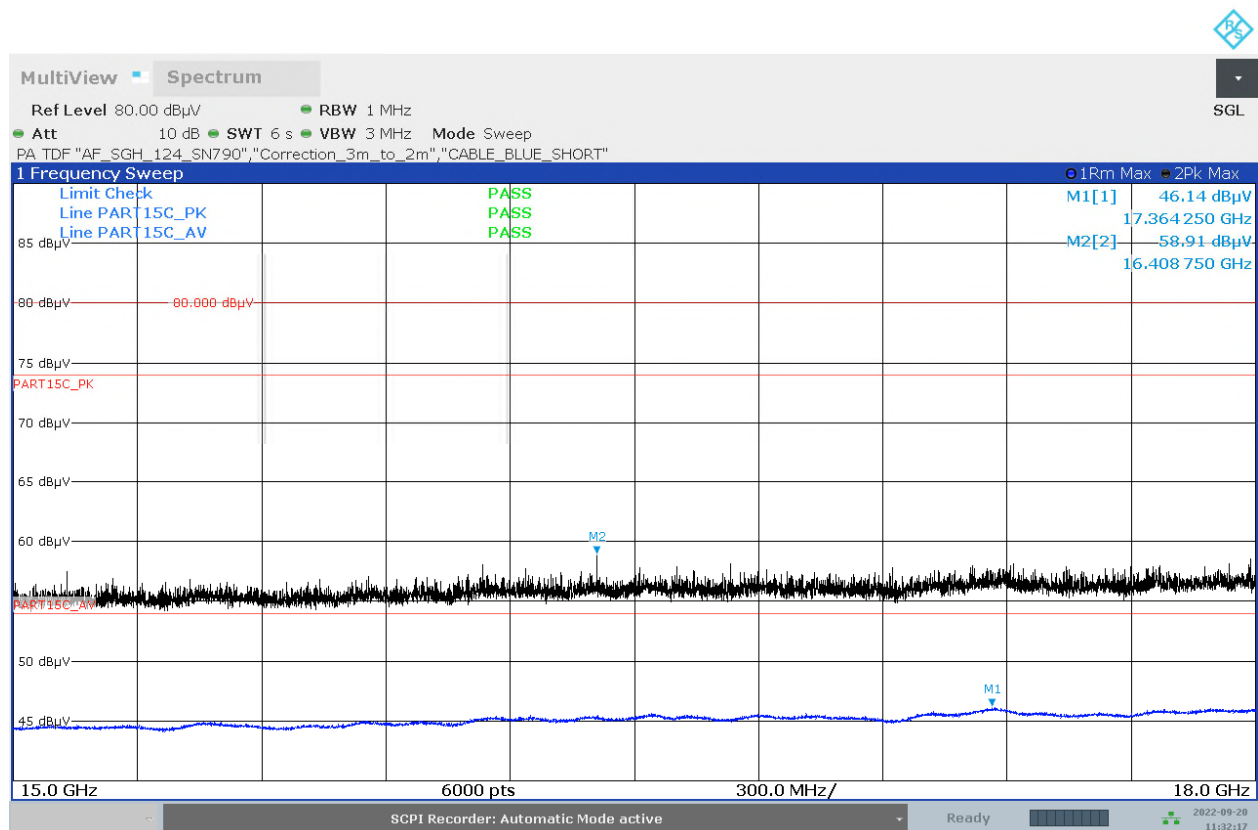
4.01h_BLE_Ch0_EUT_standing_AntV

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:	GFSK 1 Mbit ch00
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. low
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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11:32:18 AM 09/20/2022

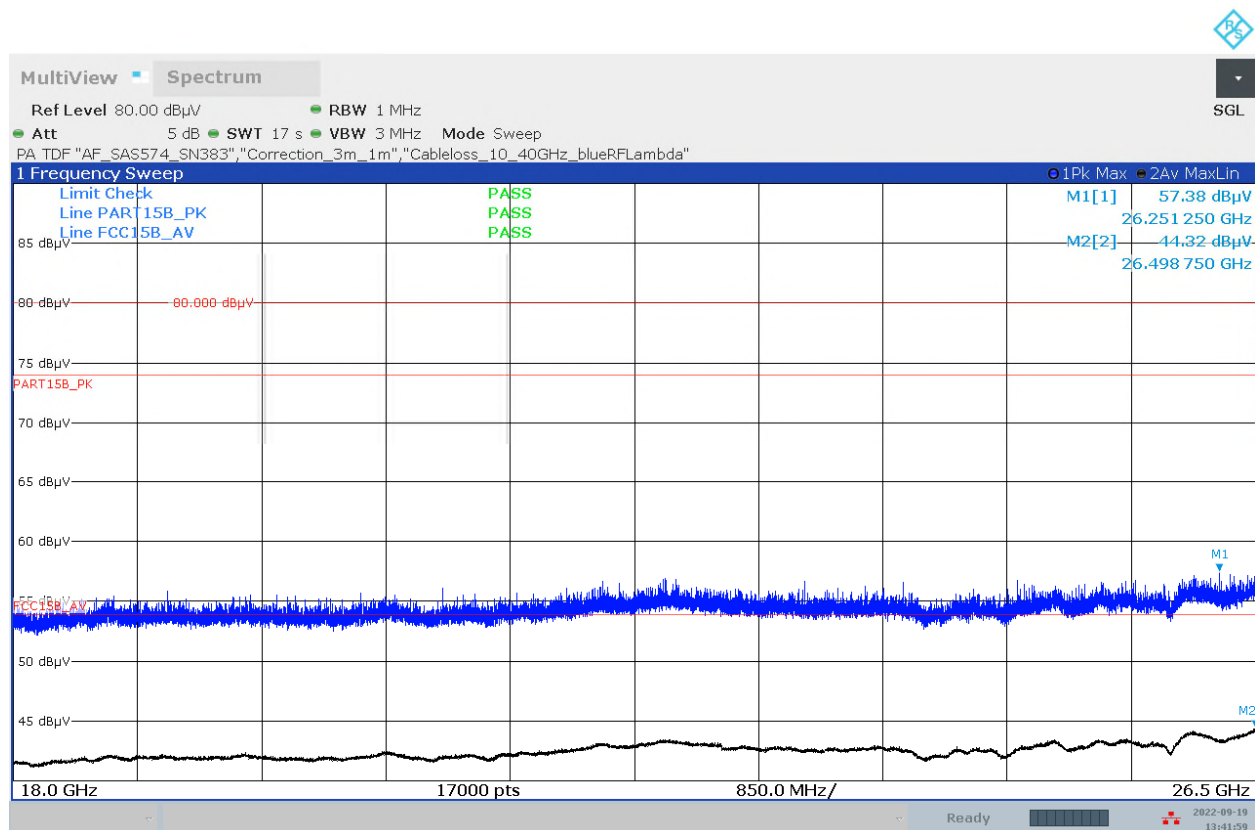
4.01i_BLE_Ch0_EUT_laying_AntV

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:	GFSK 1 Mbit ch00
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. low
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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01:41:59 PM 09/19/2022

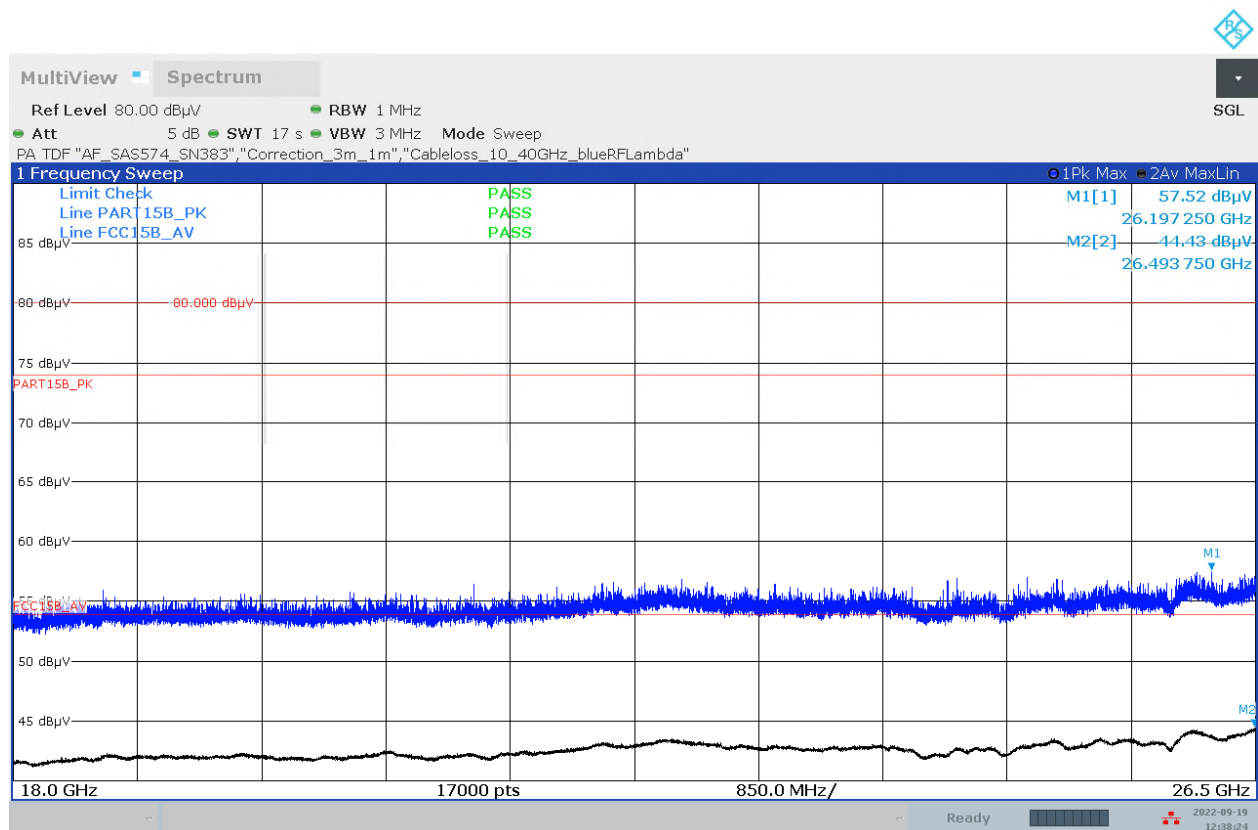
4.01j_BLE_Ch0_EUT_laying_AntV

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:	GFSK 1 Mbit ch00
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. low
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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12:38:24 PM 09/19/2022

4.01k_BLE_Ch0_EUT_standing_AntH

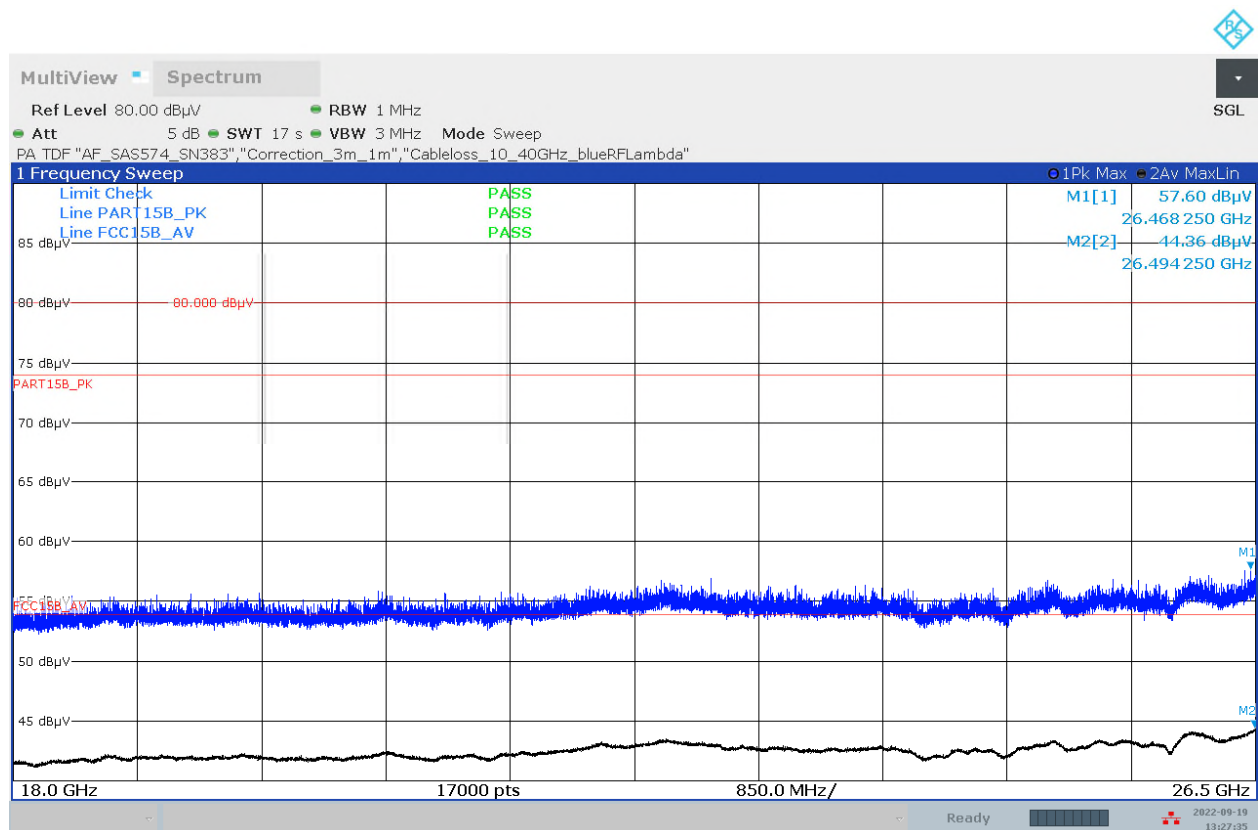
Common Information

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: GFSK | 1 Mbit | ch00
Set-up no. 1
Operator: SSanthakum
Comment: Channel no. low
Comment2: --
Environmental Conditions: Humidity : 40%rH; Temperature: 20°C
Verdict: Passed

EUT Information

PMT number: 22-1-00250S04_C02



01:27:35 PM 09/19/2022

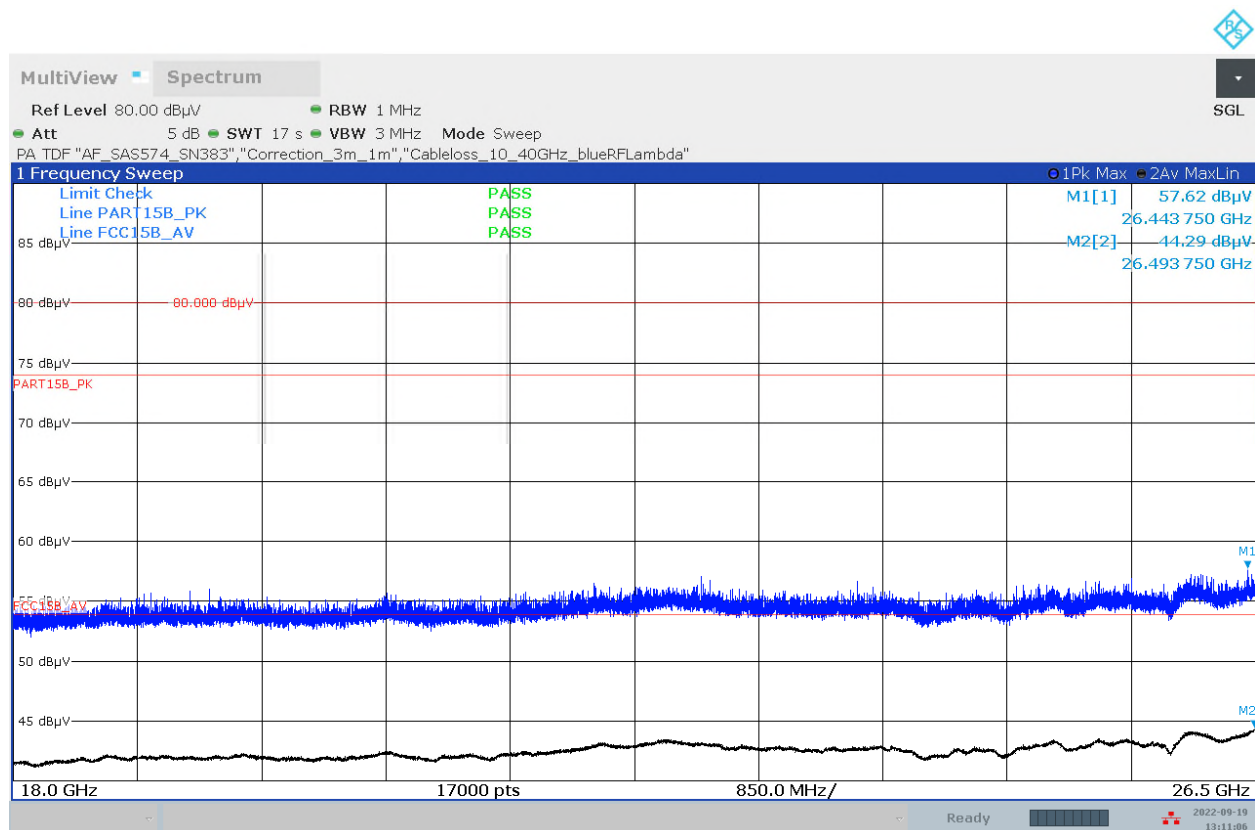
4.01I_BLE_Ch0_EUT_standing_AntV

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:	GFSK 1 Mbit ch00
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. low
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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01:11:06 PM 09/19/2022

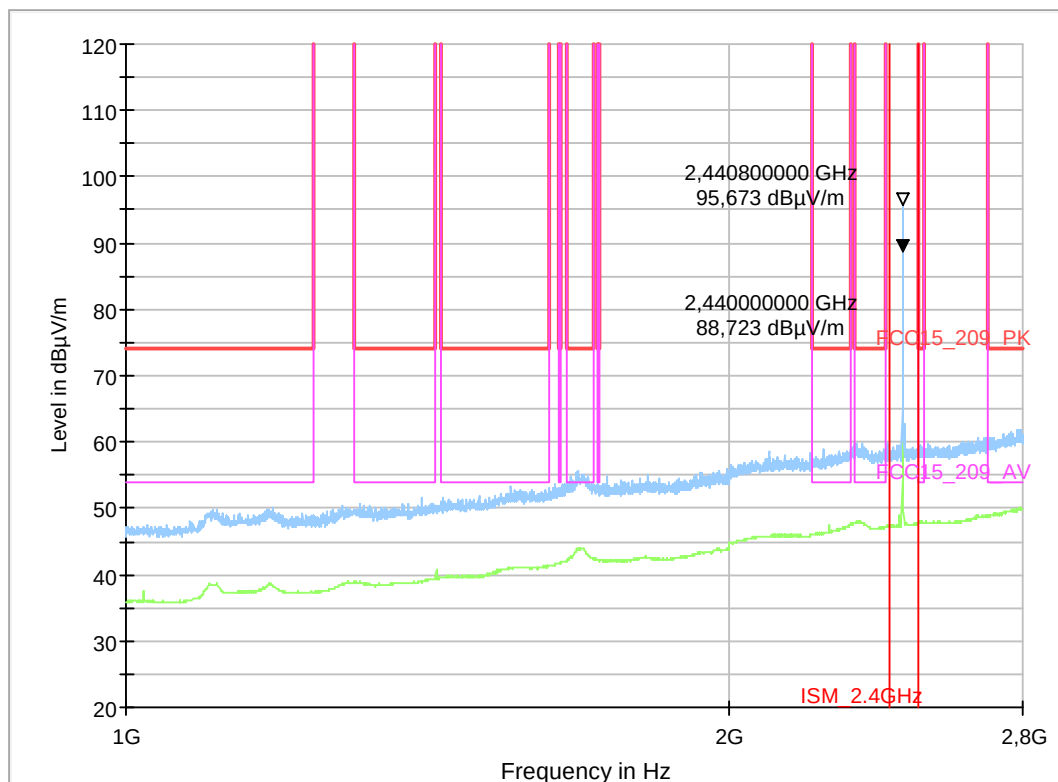
4.02a_BLE_ch19

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:	GFSK 2 Mbit ch19
Set-up no.	1
Operator:	SSanthakum/pst
Comment:	Channel no. middle
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
	Full Spectrum



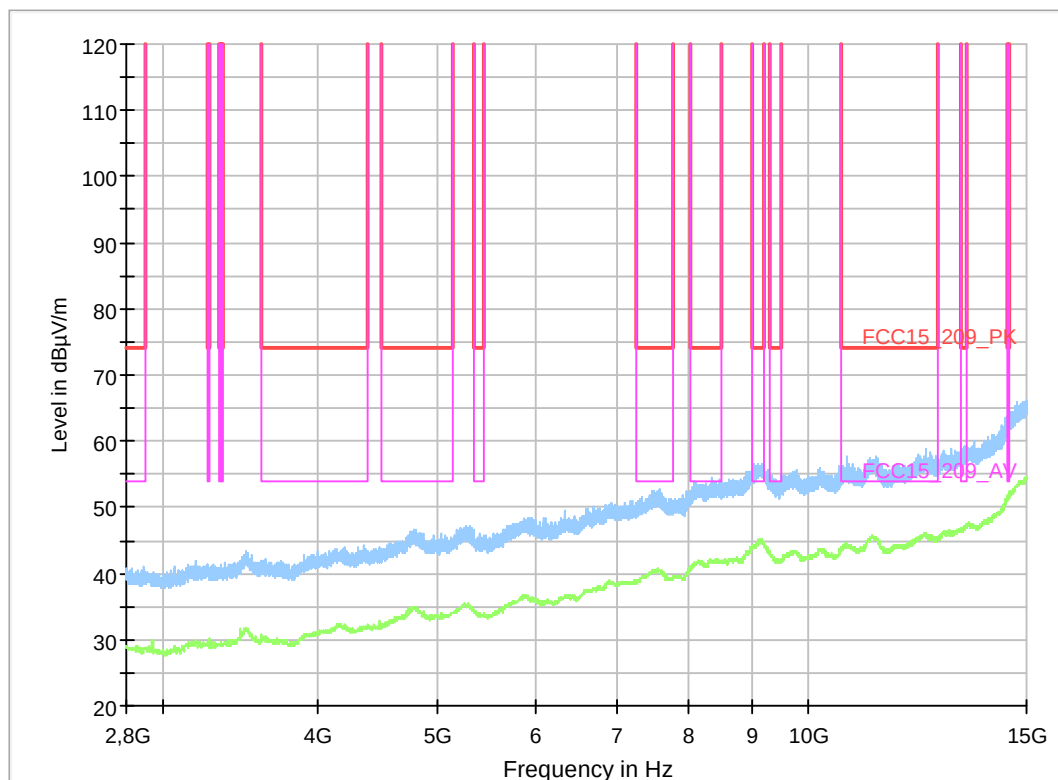
4.02b_BLE_ch19

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 1Mbit ch19
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. mid
Comment2:	-
Environmental Conditions::	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C01
	Full Spectrum



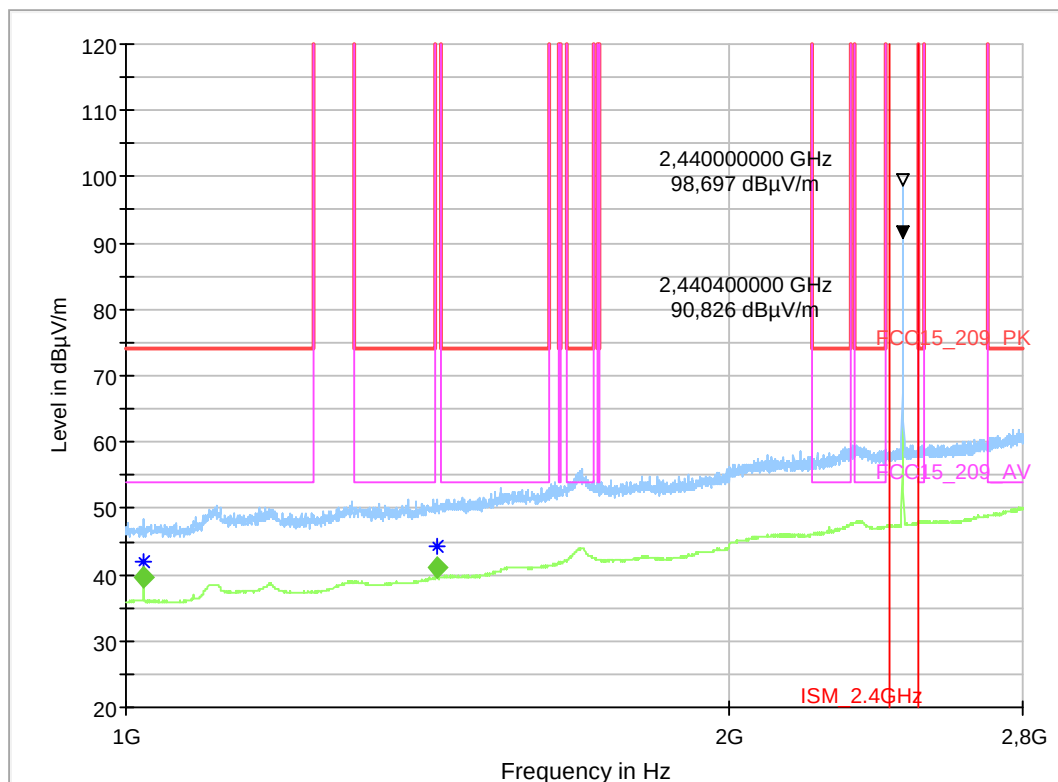
4.02c_BLE_ch19

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:	GFSK 2 Mbit ch19
Set-up no.	1
Operator:	SSanthakum/pst
Comment:	Channel no. middle
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
	Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
1020.000000	---	39.59	54.00	14.41	100.0	1000.000	155.0	H	184.0	0.0
1428.000000	---	40.97	150.00	109.03	100.0	1000.000	155.0	V	-2.0	0.0

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

Frequency (MHz)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)	Comment
1020.000000	27	5	0	22	---	17:27:17 - 08.09.2022
1428.000000	31	6	0	25	---	17:29:05 - 08.09.2022

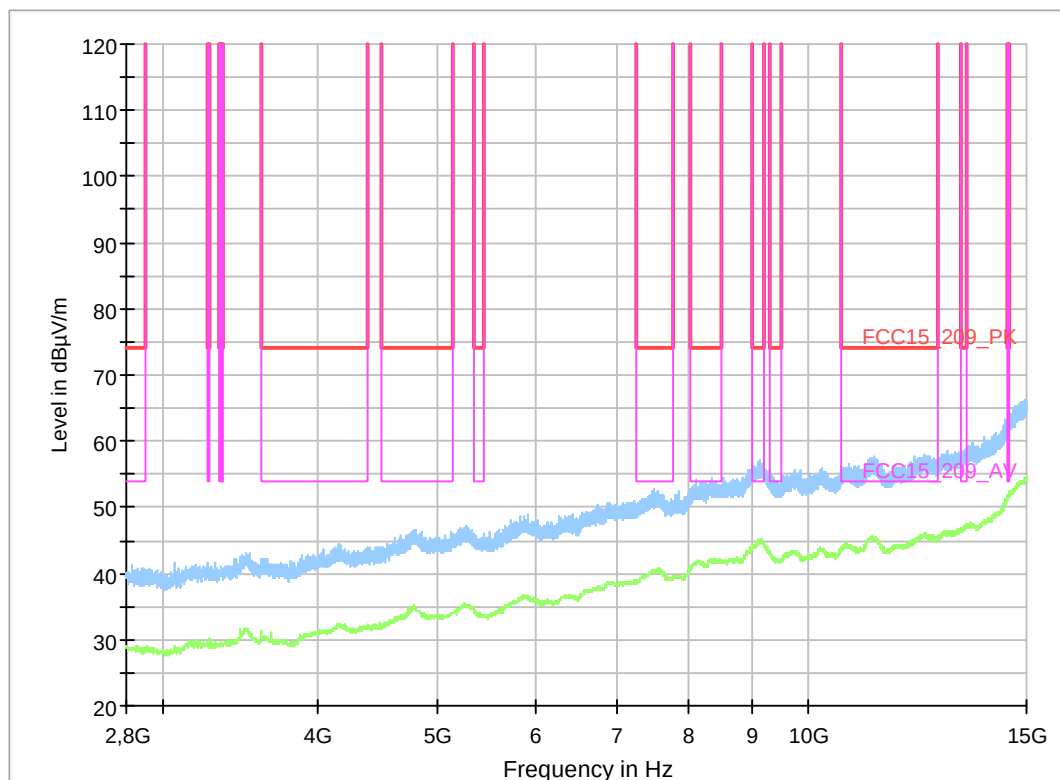
4.01d_BLE_ch19

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 1Mbit ch19
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. mid
Comment2:	-
Environmental Conditions::	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C01
	Full Spectrum



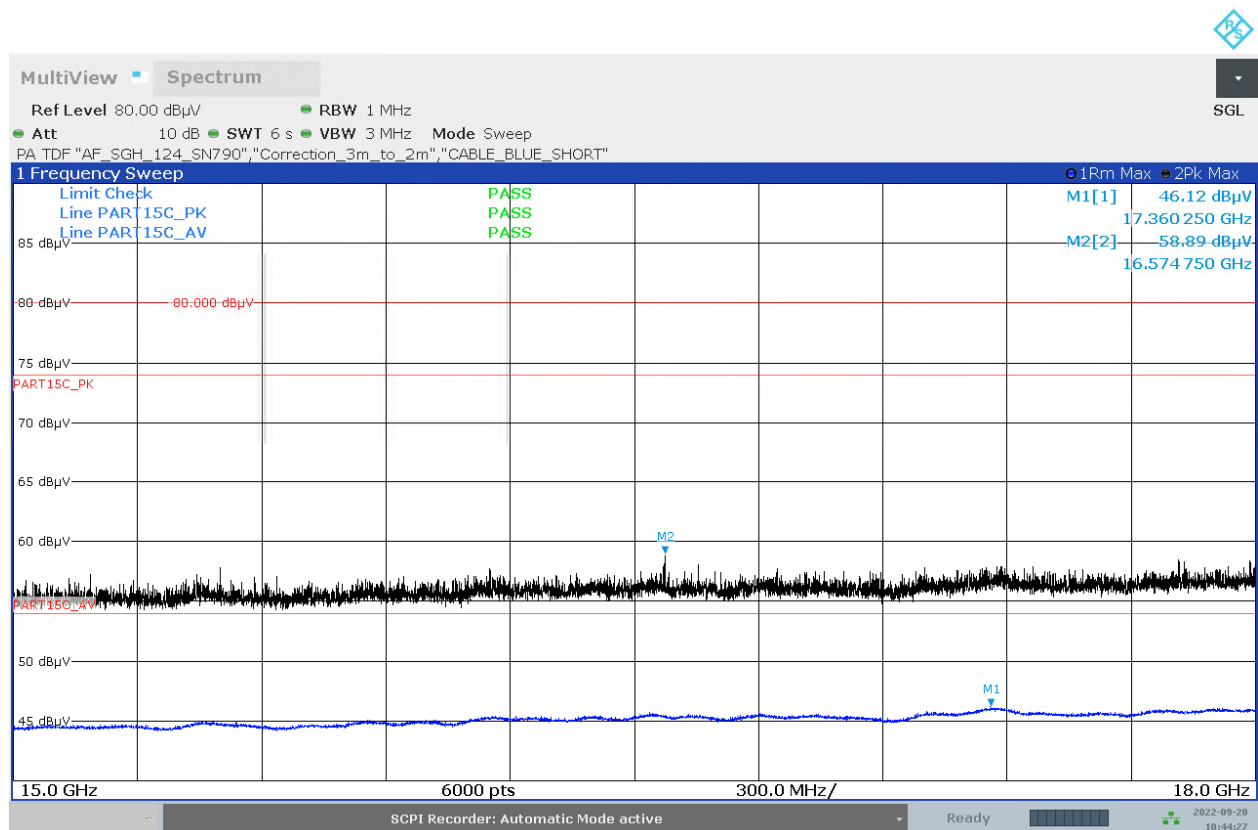
4.02e_BLE_Ch0_EUT_laying_AntH

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:	GFSK 1 Mbit ch19
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. mid
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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10:44:27 AM 09/20/2022

4.02f_BLE_Ch19_EUT_laying_AntV

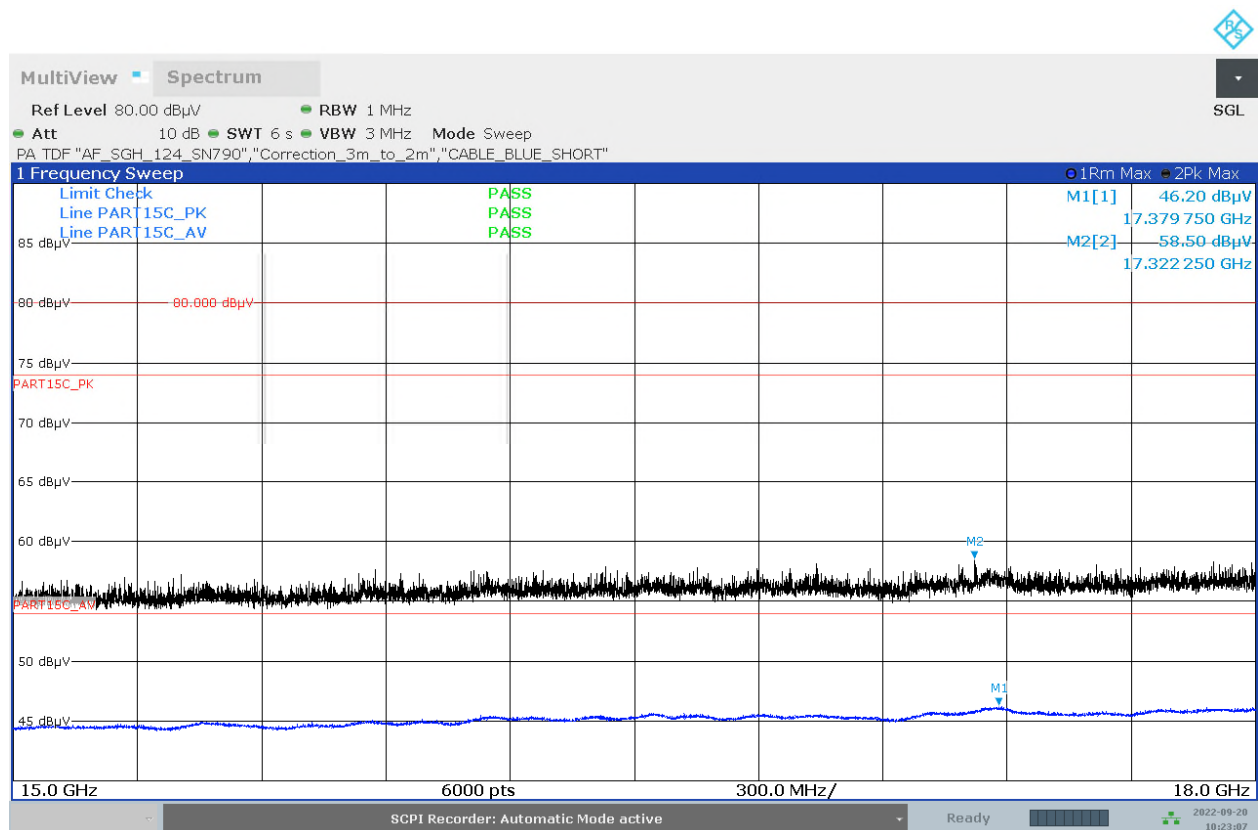
Common Information

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: GFSK | 1 Mbit | ch19
Set-up no. 1
Operator: SSanthakum
Comment: Channel no. mid
Comment2: --
Environmental Conditions: Humidity : 40%rH; Temperature: 20°C
Verdict: Passed

EUT Information

PMT number: 22-1-00250S04_C02



10:23:07 AM 09/20/2022

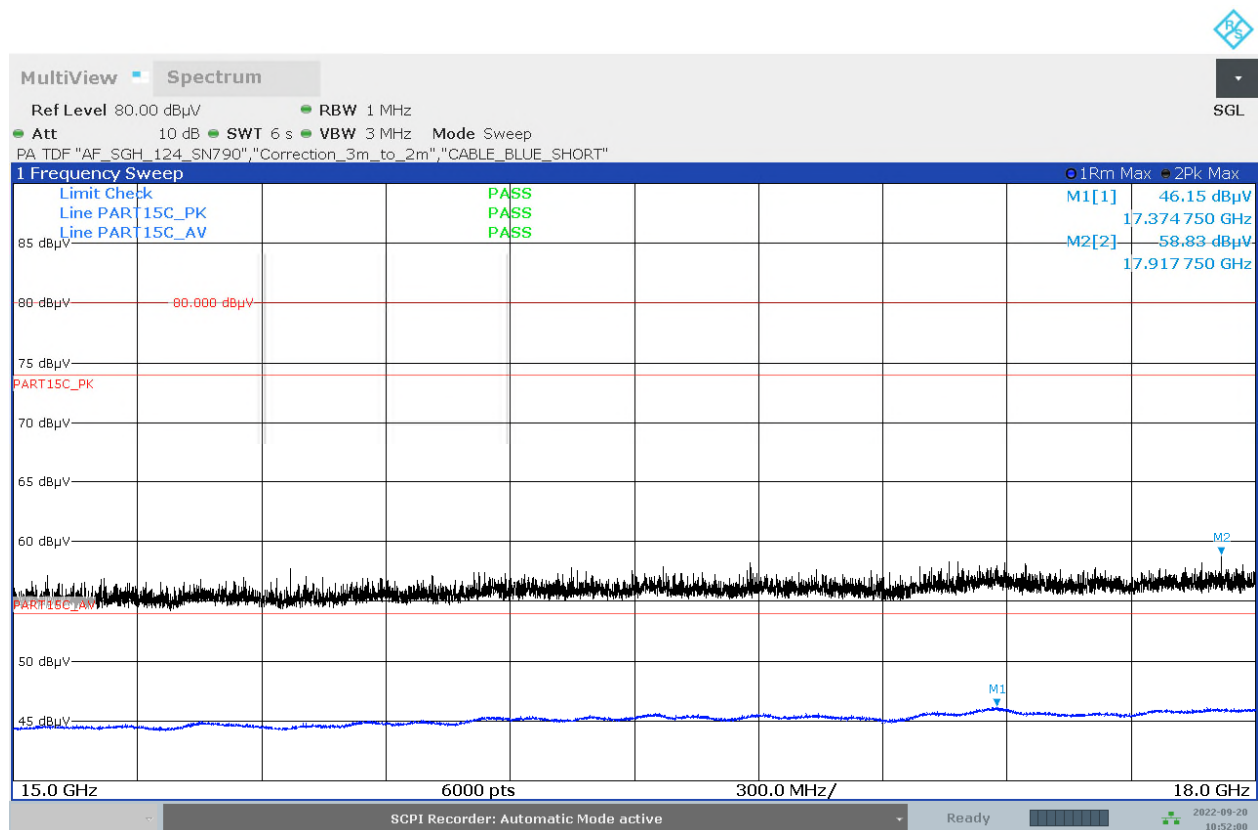
4.02g_BLE_Ch19_EUT_standing_AnthH

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:	GFSK 1 Mbit ch19
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. mid
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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10:52:00 AM 09/20/2022

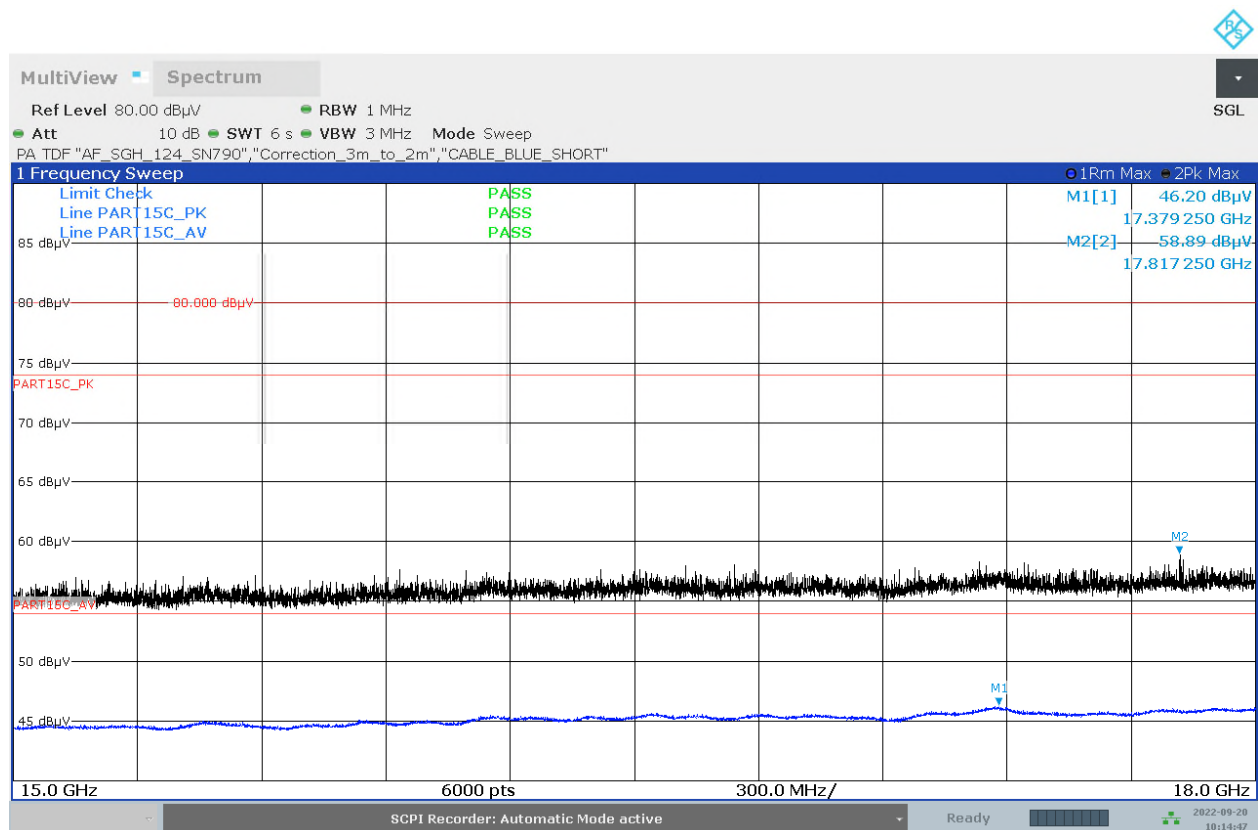
4.02h_BLE_Ch19_EUT_standing_AntV

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:	GFSK 1 Mbit ch19
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. mid
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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10:14:47 AM 09/20/2022

4.02i_BLE_Ch19_EUT_laying_AntV

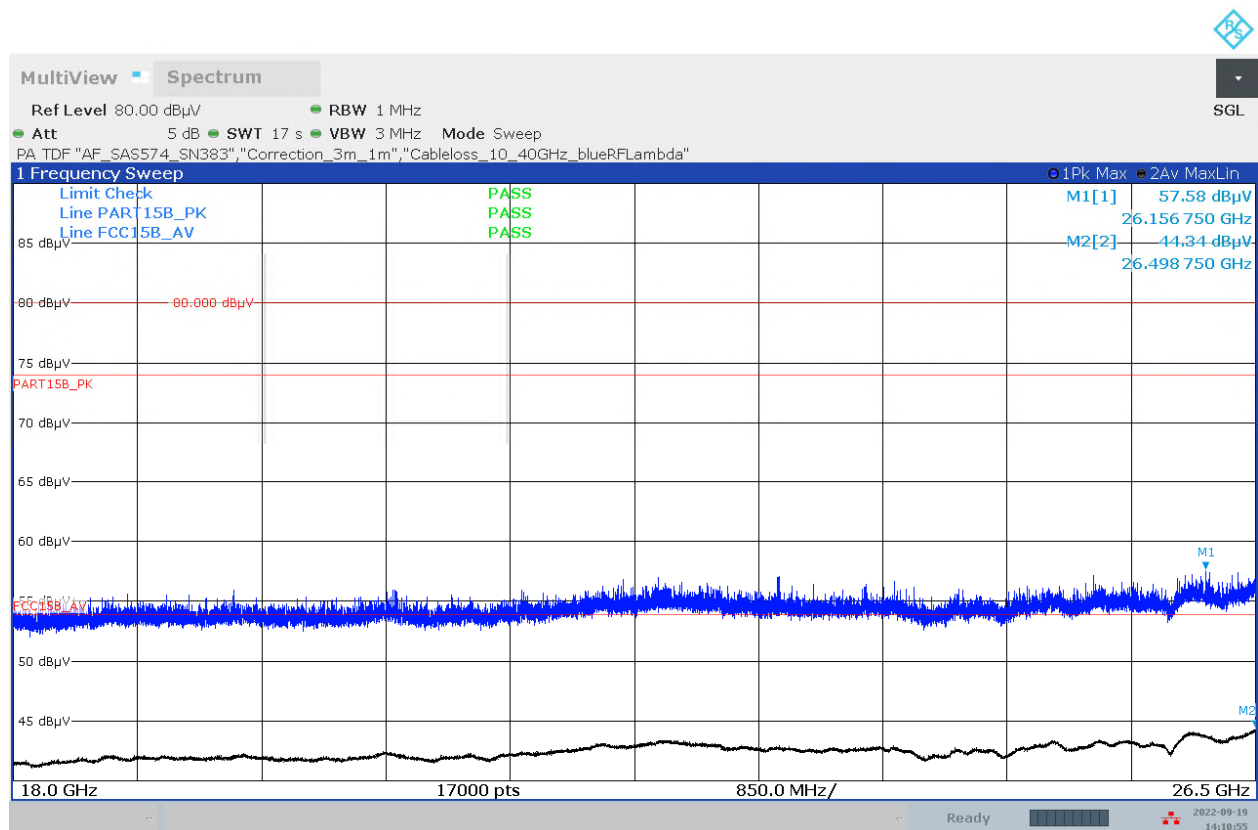
Common Information

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: GFSK | 1 Mbit | ch19
Set-up no. 1
Operator: SSanthakum
Comment: Channel no. mid
Comment2: --
Environmental Conditions: Humidity : 40%rH; Temperature: 20°C
Verdict: Passed

EUT Information

PMT number: 22-1-00250S04_C02



02:10:55 PM 09/19/2022

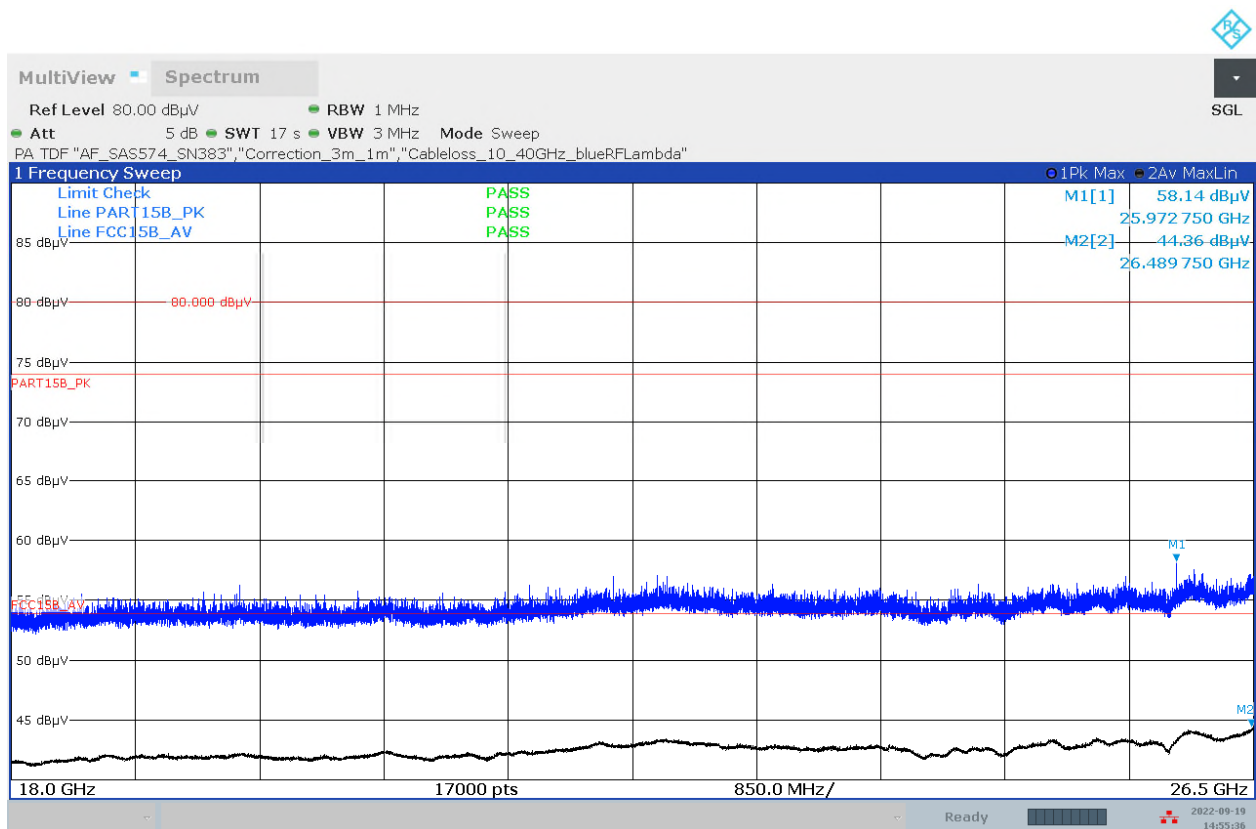
4.02j_BLE_Ch19_EUT_laying_AntV

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:	GFSK 1 Mbit ch19
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. mid
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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02:55:36 PM 09/19/2022

4.02k_BLE_Ch19_EUT_standing_AntH

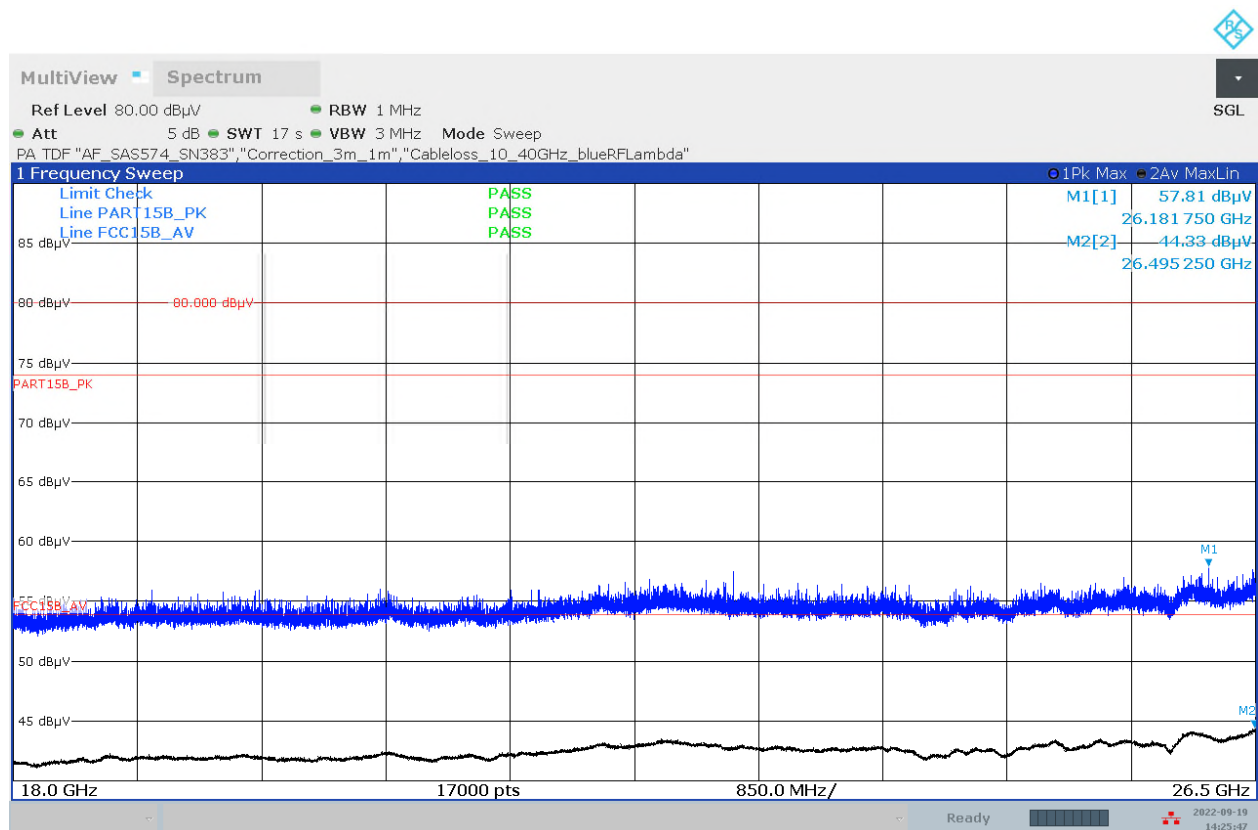
Common Information

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: GFSK | 1 Mbit | ch19
Set-up no. 1
Operator: SSanthakum
Comment: Channel no. mid
Comment2: --
Environmental Conditions: Humidity : 40%rH; Temperature: 20°C
Verdict: Passed

EUT Information

PMT number: 22-1-00250S04_C02



4.02I_BLE_Ch19_EUT_standing_AntV

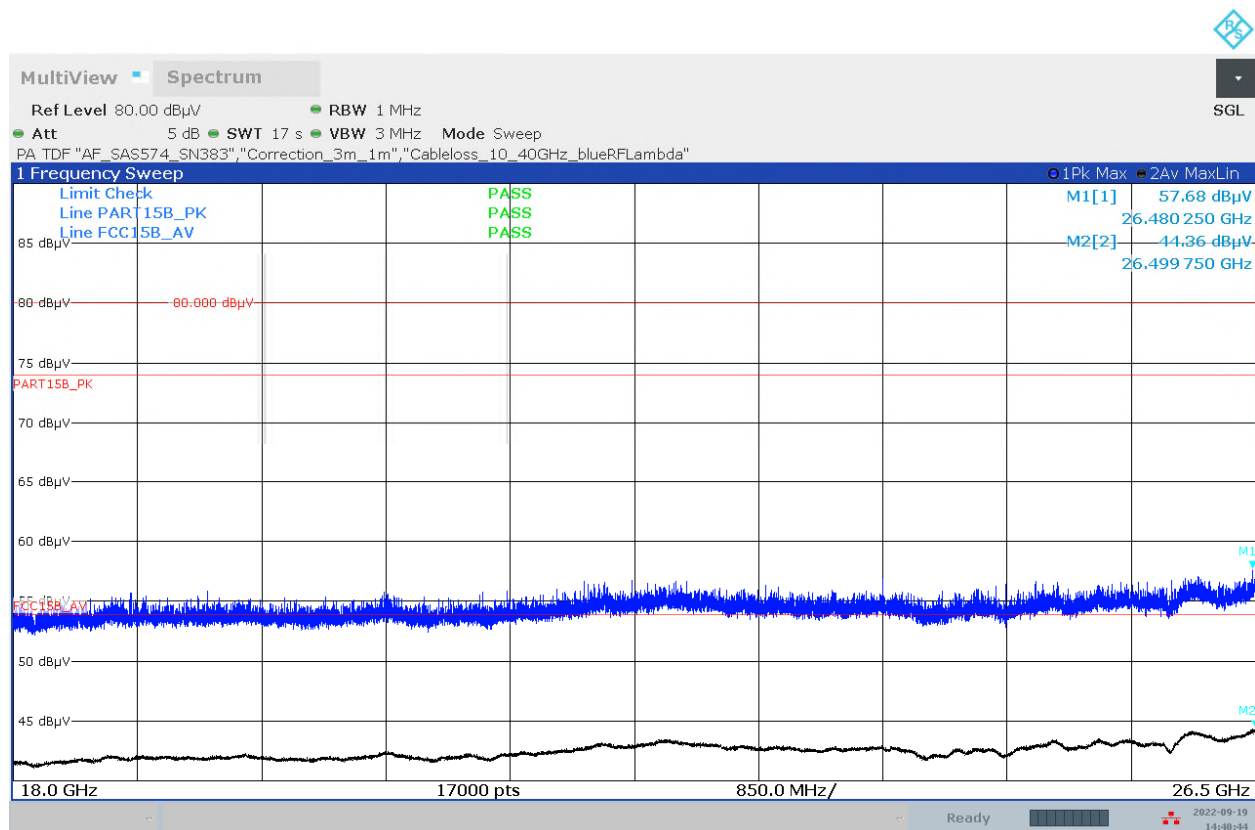
Common Information

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: GFSK | 1 Mbit | ch19
Set-up no. 1
Operator: SSanthakum
Comment: Channel no. mid
Comment2: --
Environmental Conditions: Humidity : 40%rH; Temperature: 20°C
Verdict: Passed

EUT Information

PMT number: 22-1-00250S04_C02



02:40:44 PM 09/19/2022

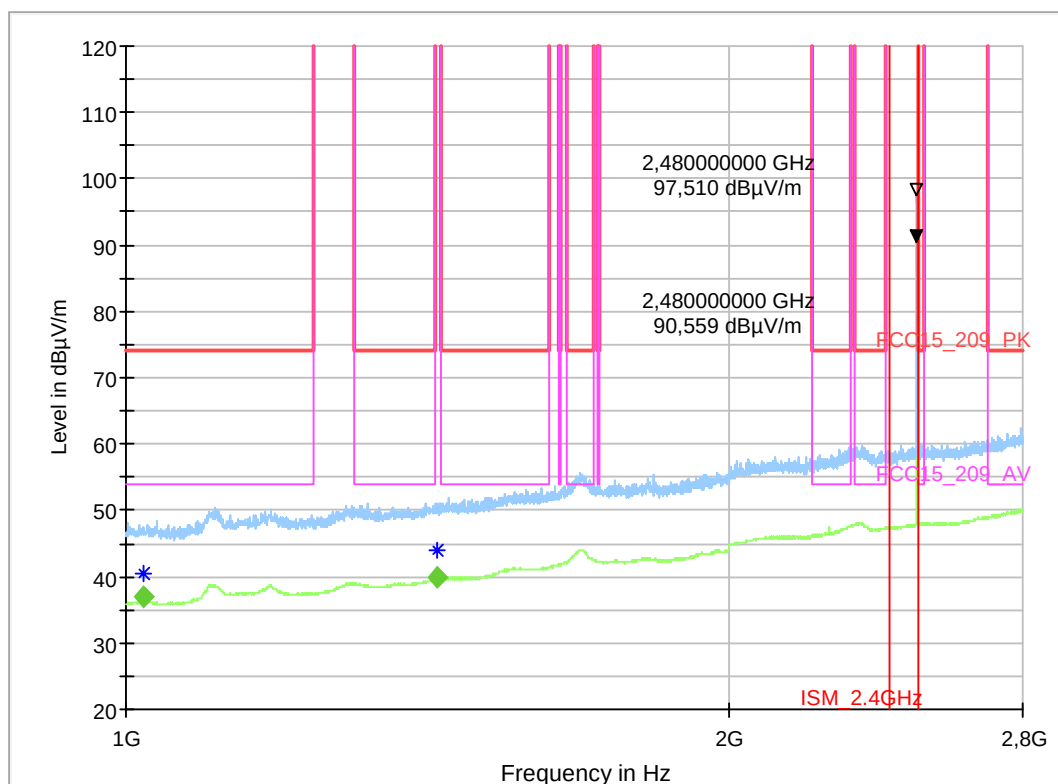
4.03a_BLE_ch39

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:	GFSK 2 Mbit ch39
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. high
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
	Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
1020.000000	---	37.01	54.00	16.99	100.0	1000.000	155.0	H	148.0	0.0
1428.000000	---	39.96	150.00	110.04	100.0	1000.000	155.0	V	7.0	0.0

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

Frequency (MHz)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)	Comment
1020.000000	27	5	0	22	---	18:24:05 - 08.09.2022
1428.000000	31	6	0	25	---	18:25:53 - 08.09.2022

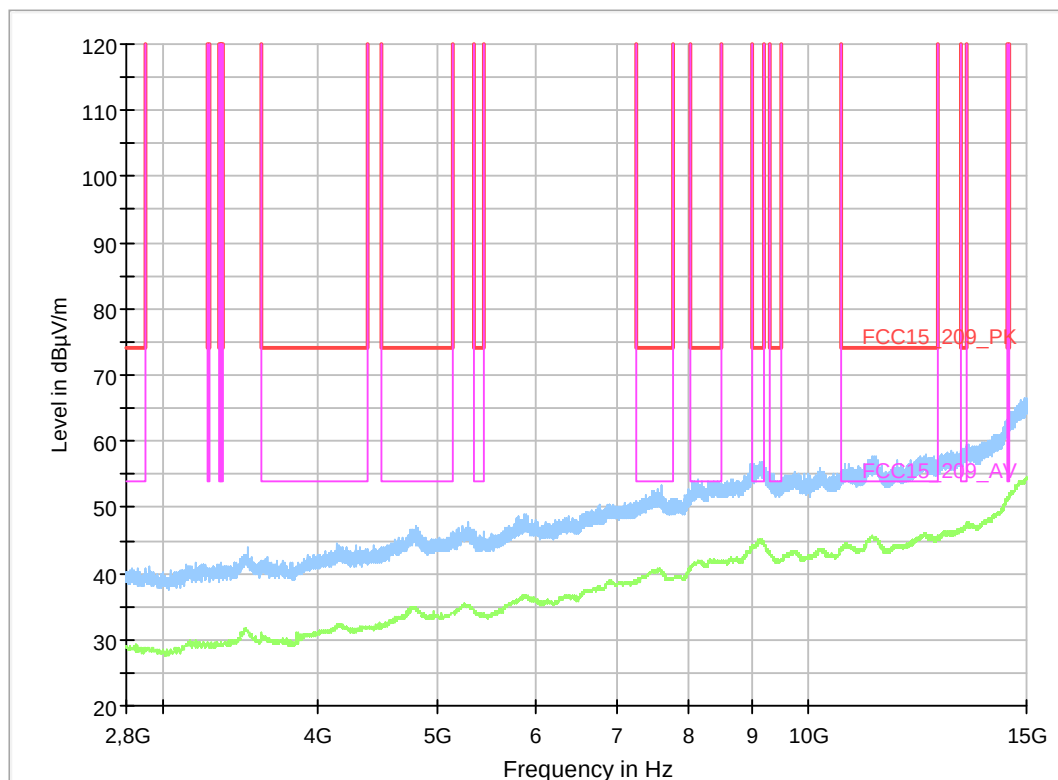
4.03b_BLE_ch39

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 1Mbit ch39
Set-up no.	
Operator:	SSanthakum
Comment:	Channel no. mid
Comment2:	Modulation Type: xxx Data Rate: yyy
Environmental Conditions::	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C01
	Full Spectrum



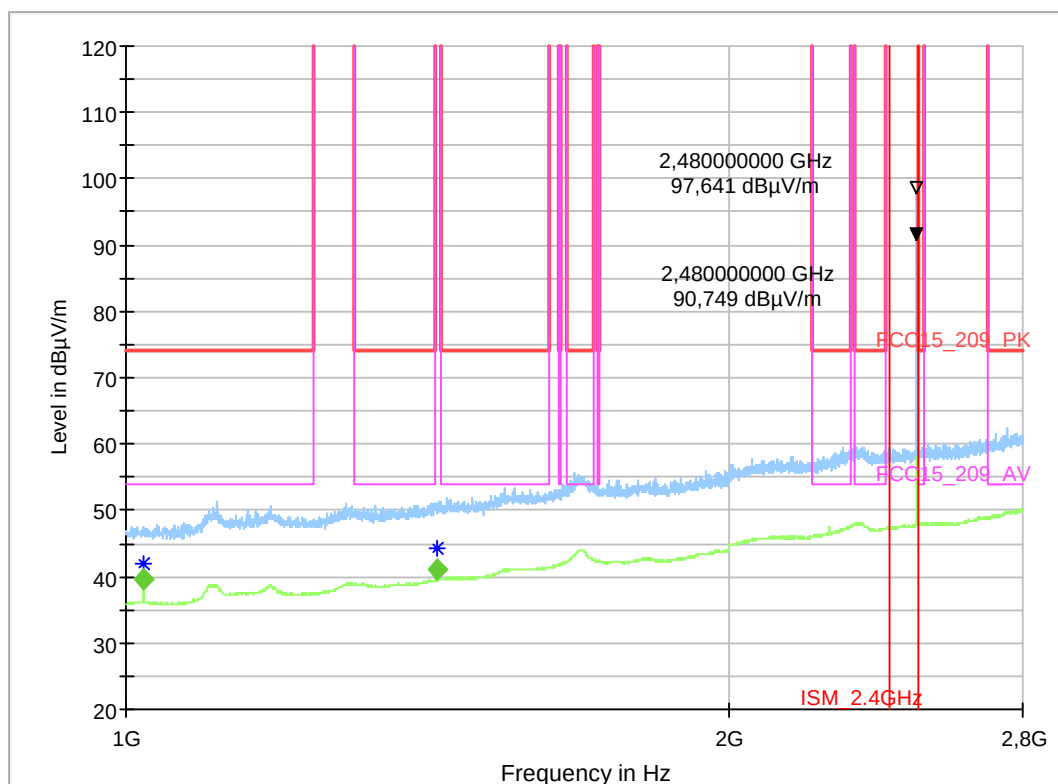
4.03c_BLE_ch39

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:	GFSK 2 Mbit ch39
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. high
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
	Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
1020.000000	---	39.55	54.00	14.45	100.0	1000.000	155.0	H	179.0	0.0
1428.000000	---	41.01	150.00	108.99	100.0	1000.000	155.0	V	6.0	0.0

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

Frequency (MHz)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBμV)	Comment
1020.000000	27	5	0	22	---	18:07:17 - 08.09.2022
1428.000000	31	6	0	25	---	18:09:05 - 08.09.2022

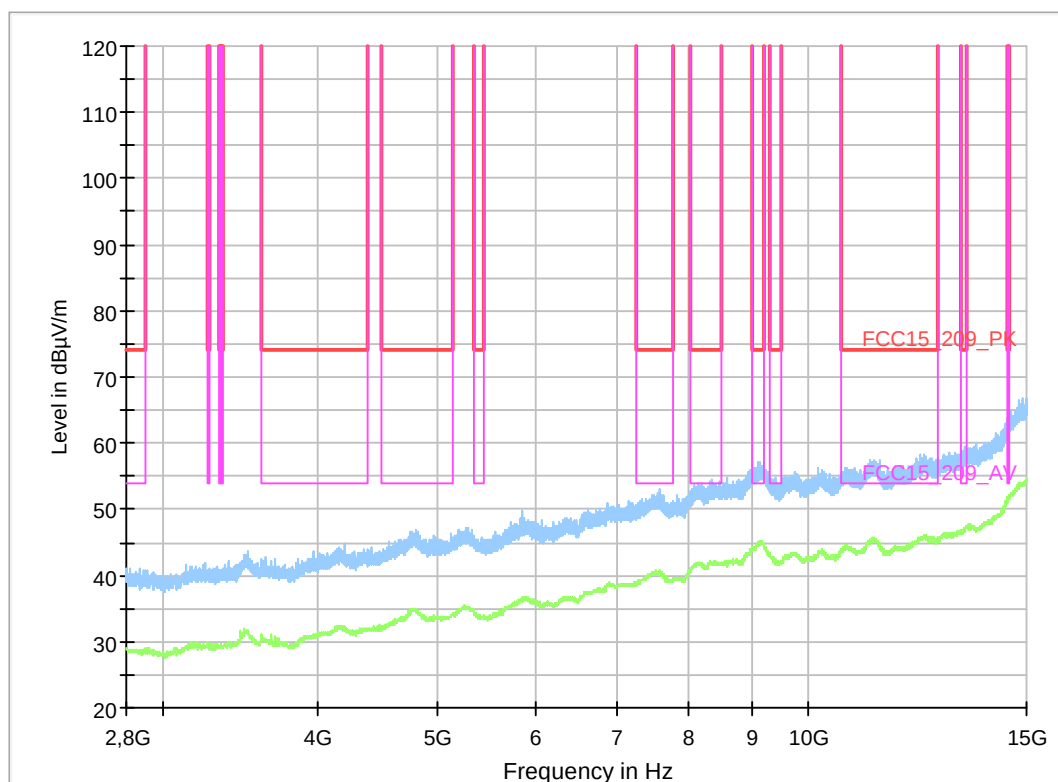
4.03d_BLE_ch39

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 1Mbit ch39
Set-up no.	
Operator:	SSanthakum
Comment:	Channel no. high
Comment2:	Modulation Type: xxx Data Rate: yyy
Environmental Conditions::	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C01
	Full Spectrum



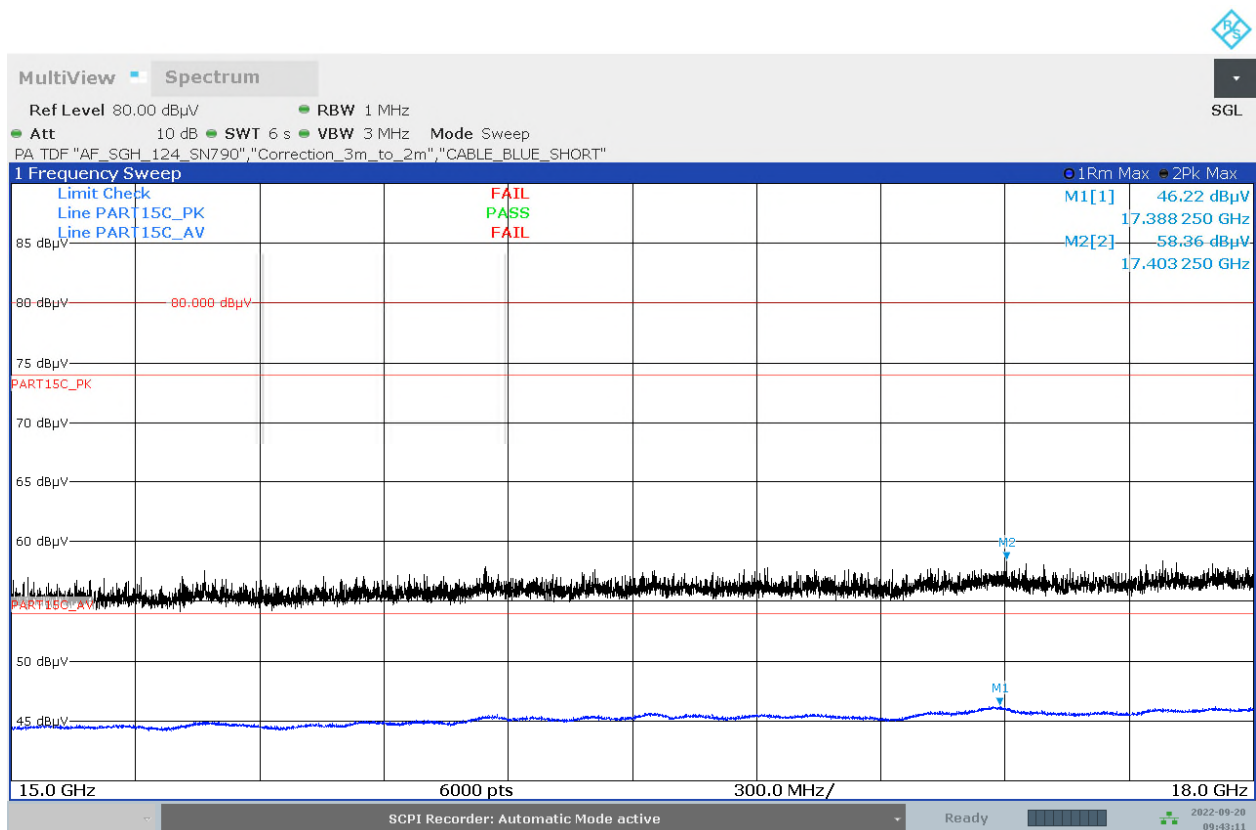
4.03e_BLE_Ch39_EUT_laying_AnthH

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:	GFSK 1 Mbit ch39
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. high
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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09:43:12 AM 09/20/2022

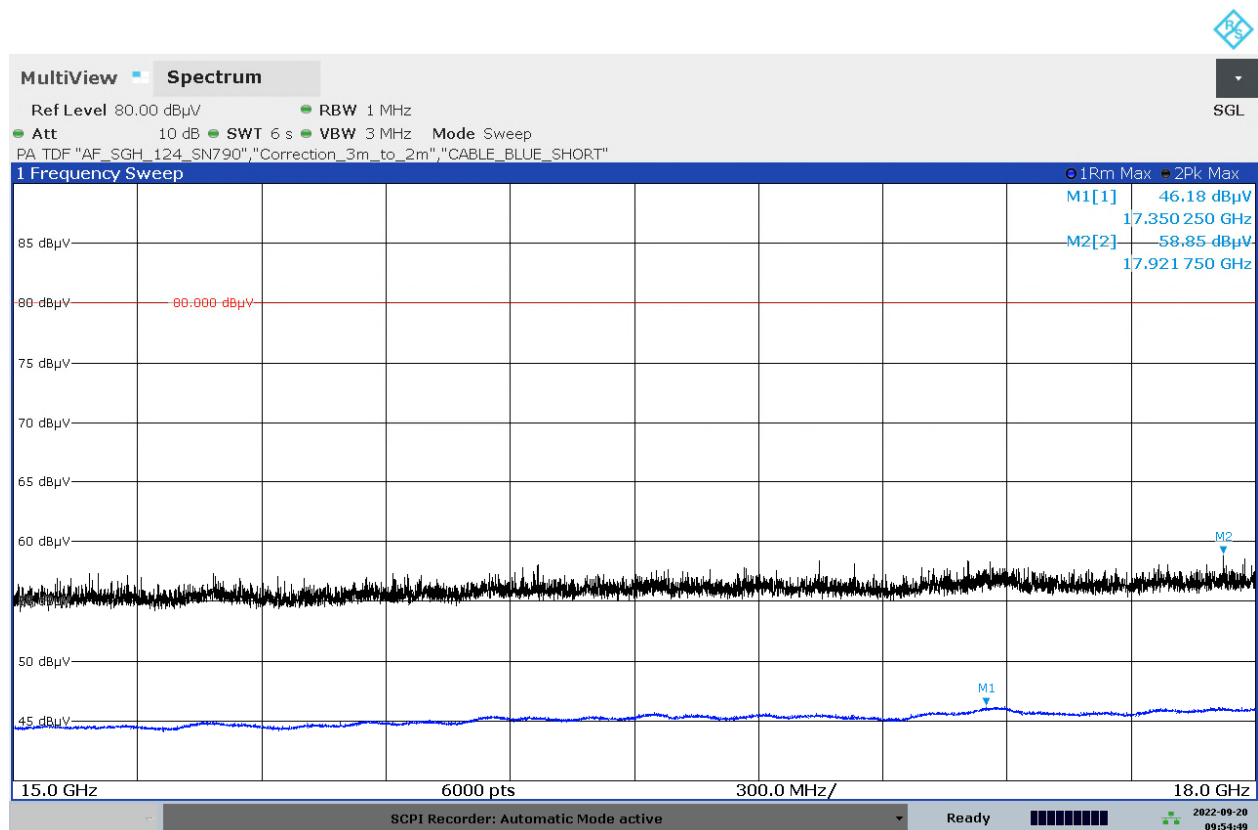
4.03f_BLE_Ch39_EUT_laying_AntV

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:	GFSK 1 Mbit ch39
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. high
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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09:54:50 AM 09/20/2022

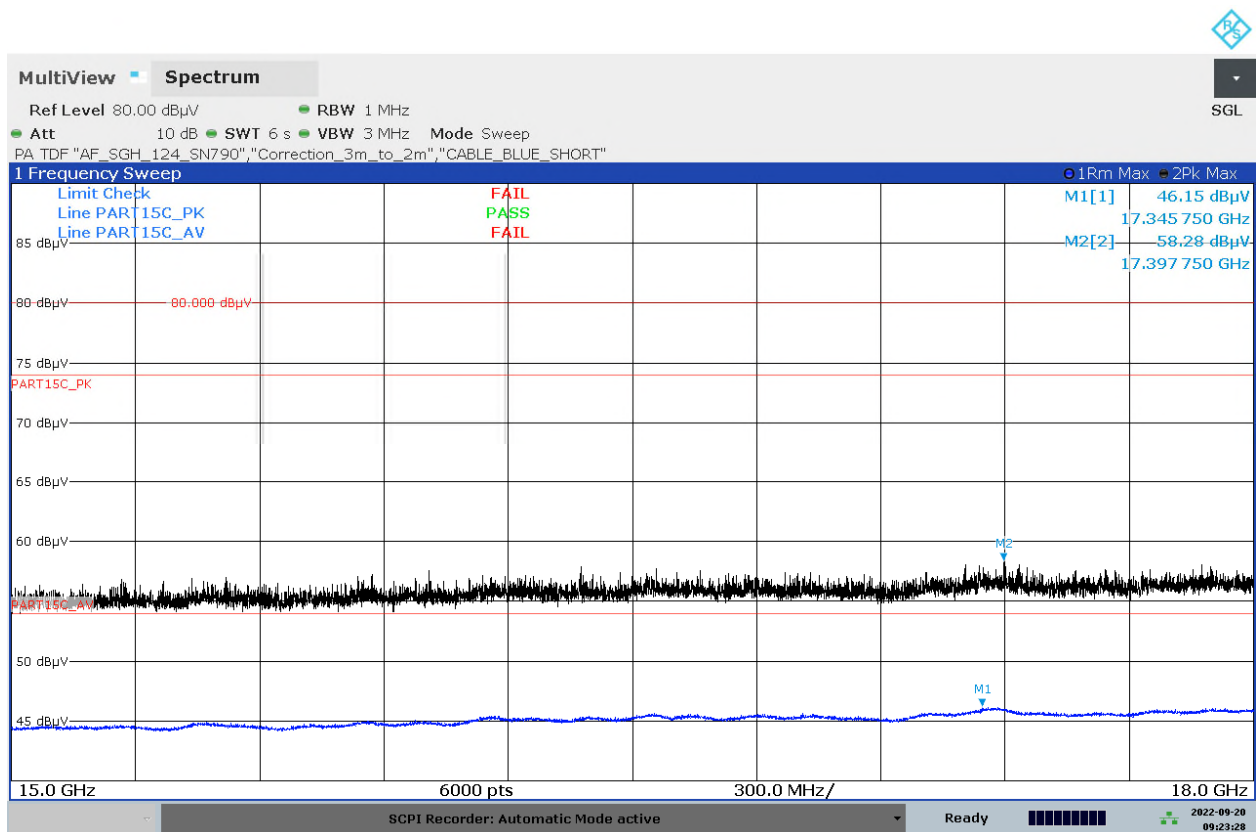
4.03g_BLE_Ch39_EUT_standing_AnthH

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:	GFSK 1 Mbit ch39
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. high
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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09:23:28 AM 09/20/2022

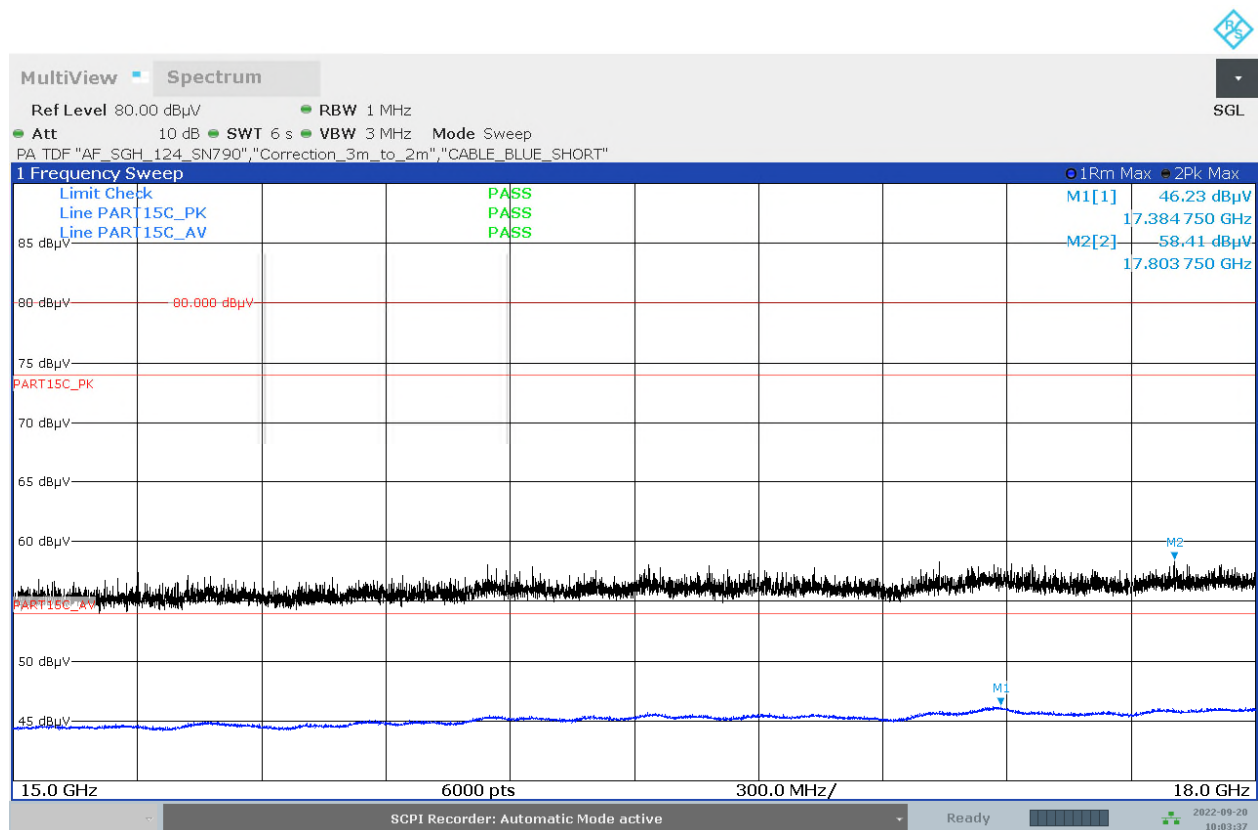
4.03h_BLE_Ch39_EUT_standing_AntV

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:	GFSK 1 Mbit ch39
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. high
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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10:03:37 AM 09/20/2022

4.03i_BLE_Ch39_EUT_laying_AntV

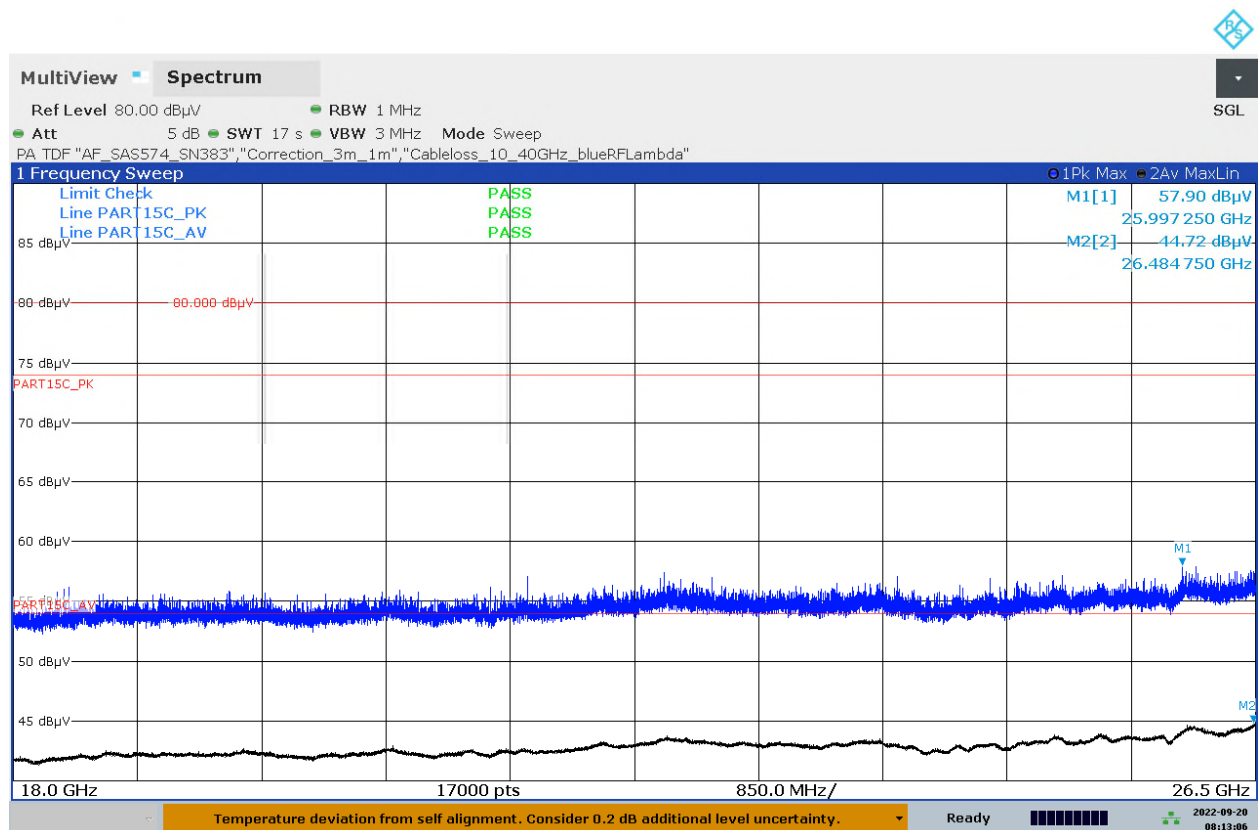
Common Information

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: GFSK | 1 Mbit | ch39
Set-up no. 1
Operator: SSanthakum
Comment: Channel no. high
Comment2: --
Environmental Conditions: Humidity : 40%RH; Temperature: 20°C
Verdict: Passed

EUT Information

PMT number: 22-1-00250S04_C02



08:13:06 AM 09/20/2022

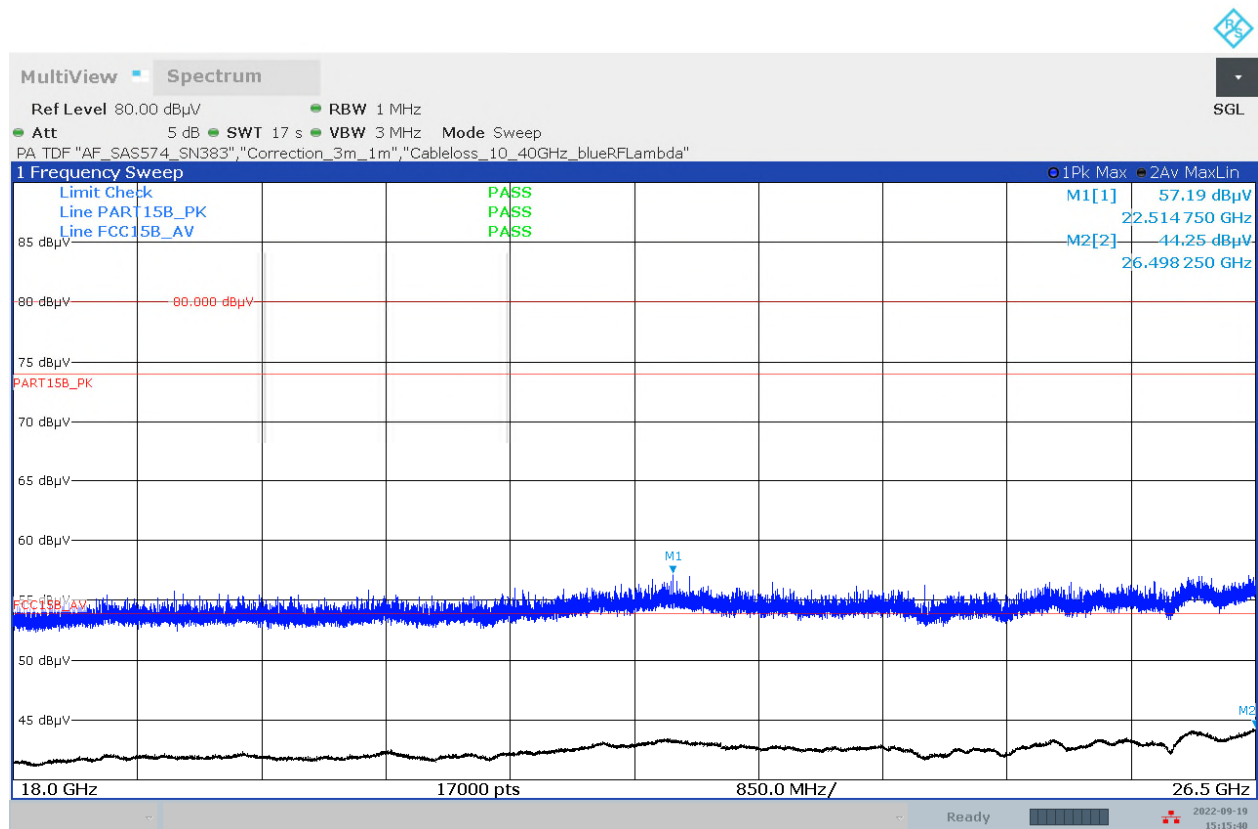
4.03j_BLE_Ch39_EUT_laying_AntV

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:	GFSK 1 Mbit ch39
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. high
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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03:15:40 PM 09/19/2022

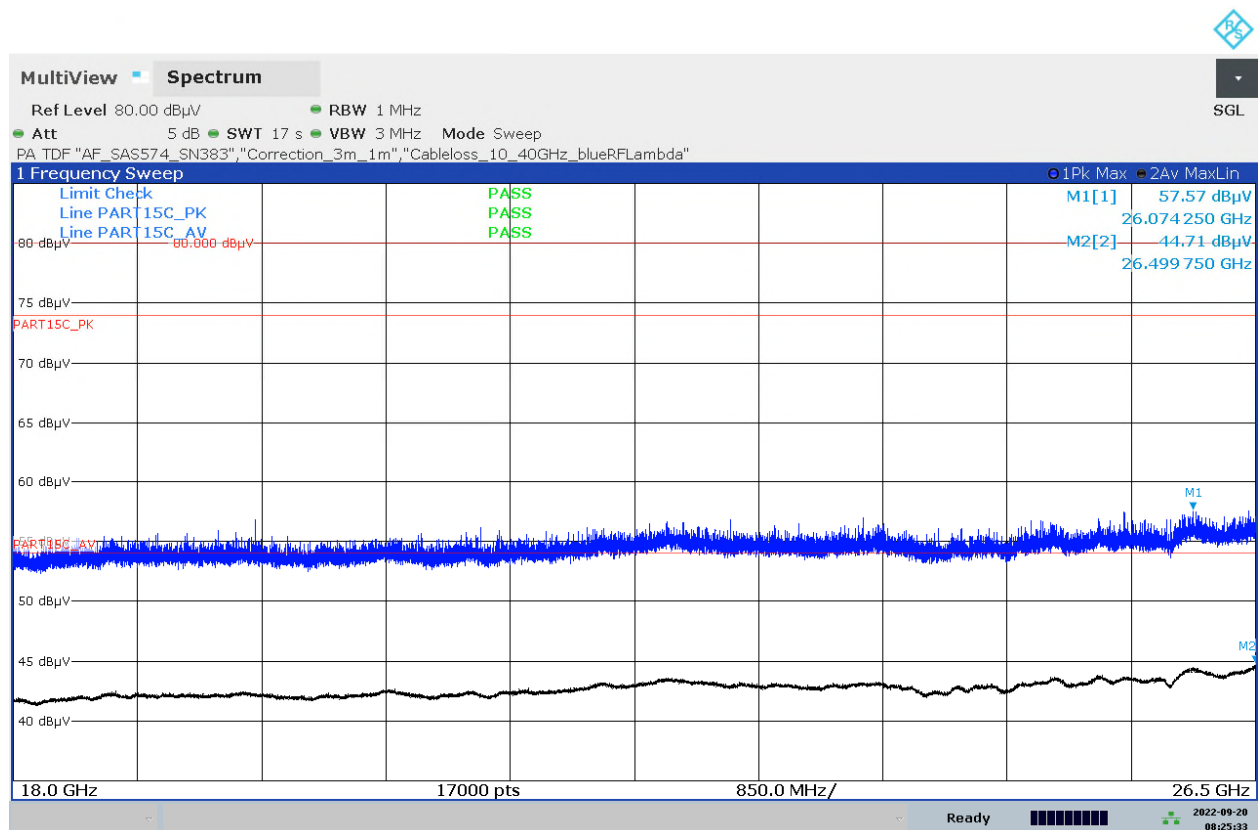
4.03k_BLE_Ch39_EUT_standing_AntH

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:	GFSK 1 Mbit ch39
Set-up no.	1
Operator:	SSanthakum
Comment:	Channel no. high
Comment2:	--
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
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08:25:33 AM 09/20/2022

4.03I_BLE_Ch39_EUT_standing_AntV

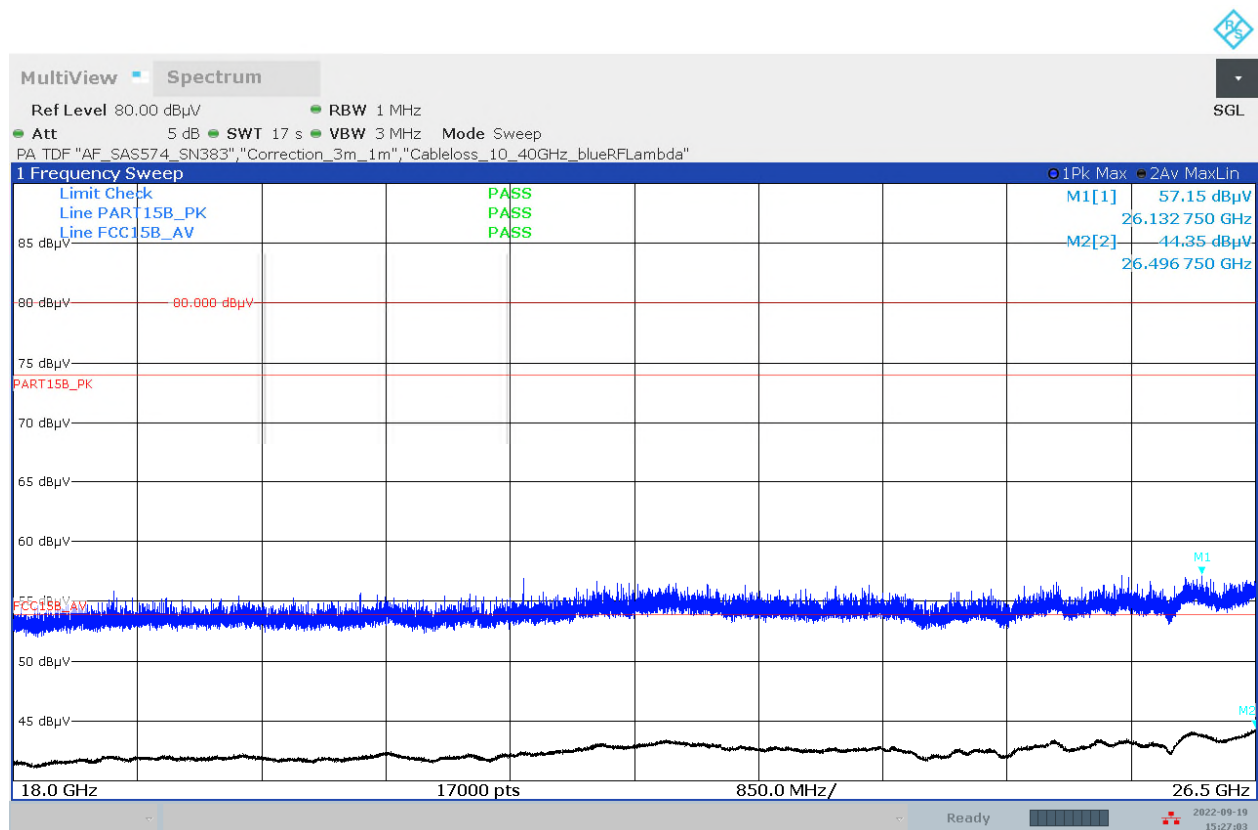
Common Information

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: GFSK | 1 Mbit | ch39
Set-up no. 1
Operator: SSanthakum
Comment: Channel no. high
Comment2: --
Environmental Conditions: Humidity : 40%rH; Temperature: 20°C
Verdict: Passed

EUT Information

PMT number: 22-1-00250S04_C02



03:27:04 PM 09/19/2022

9.01a_BLE_ch00

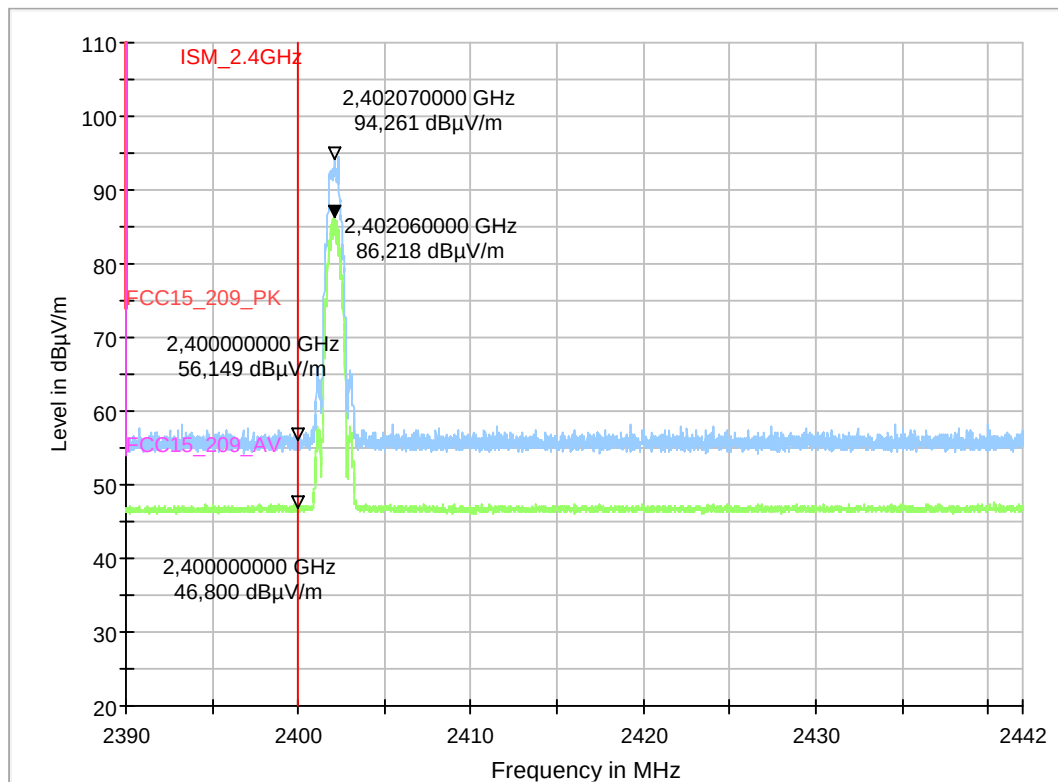
Common Information

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 | 1Mbit | ch00
Operator: SSanthakum
Comment: Channel no. low
Comment2: -
EUT Setup: 1
Verdict: Passed

EUT Information

PMT number: 22-1-00250S04_C01
Full Spectrum



9.01b_BLE_ch00

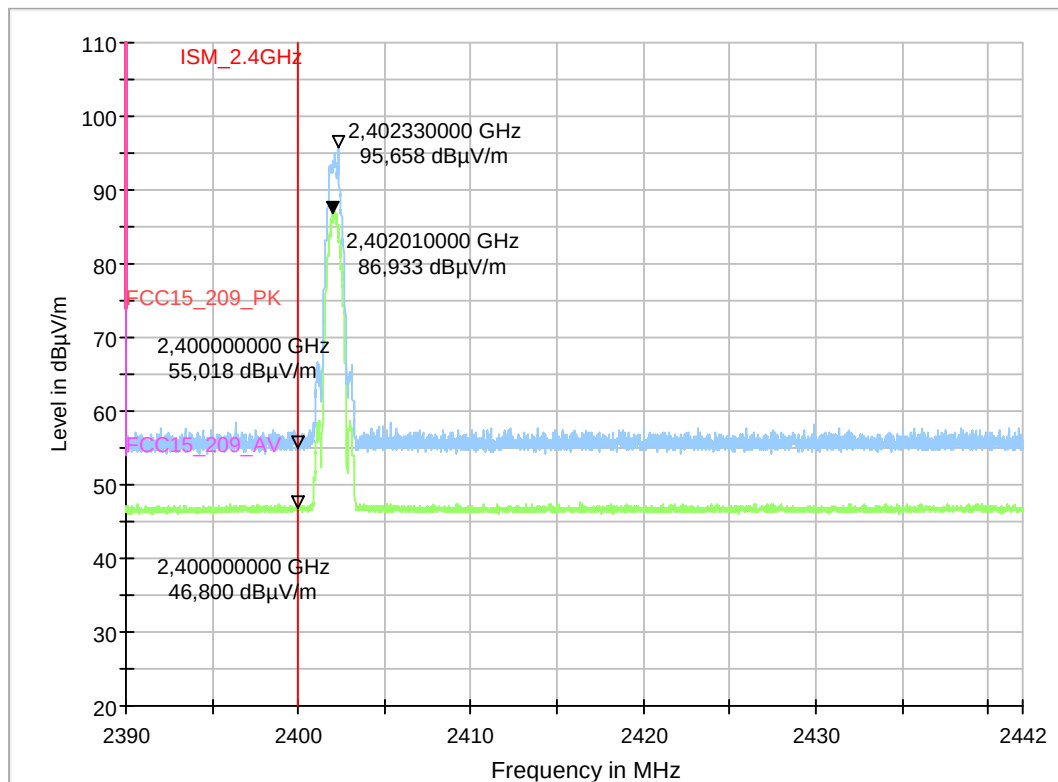
Common Information

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 1Mbit ch00
Operator:	SSanthakum
Comment:	Channel no. low/high
Comment2:	-
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C01
	Full Spectrum



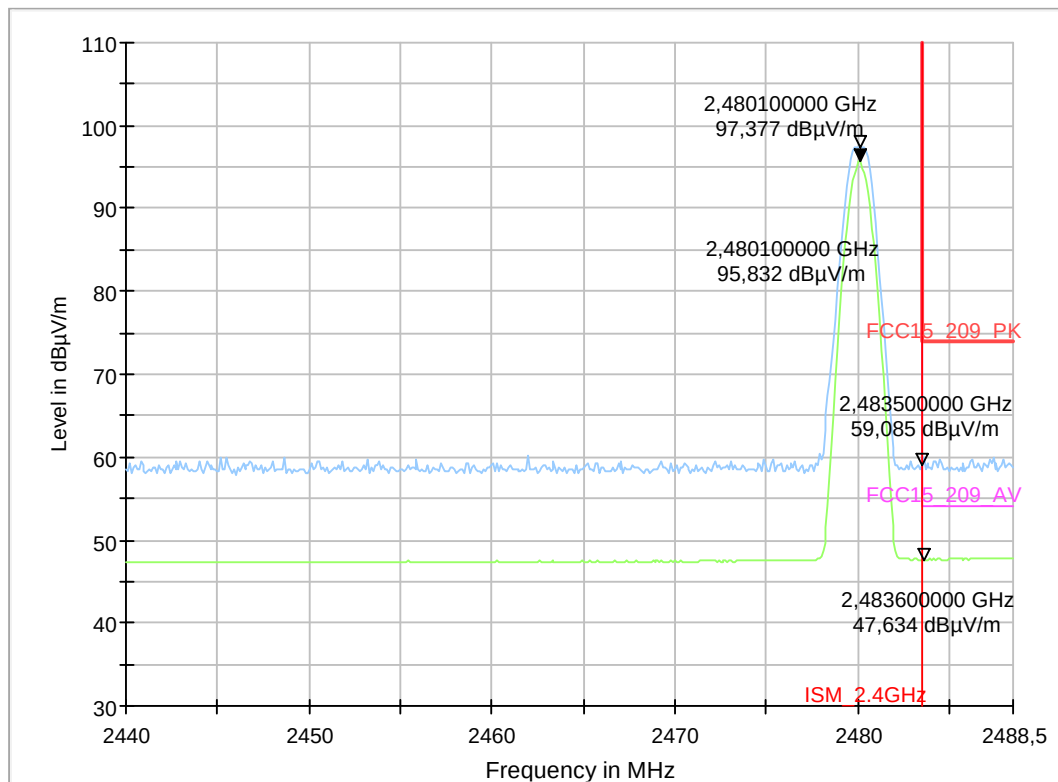
9.02a_BLE_ch39

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 1Mbit ch39
Operator:	SSanthakum
Comment:	Channel no. high
Comment2:	-
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C01
	Full Spectrum



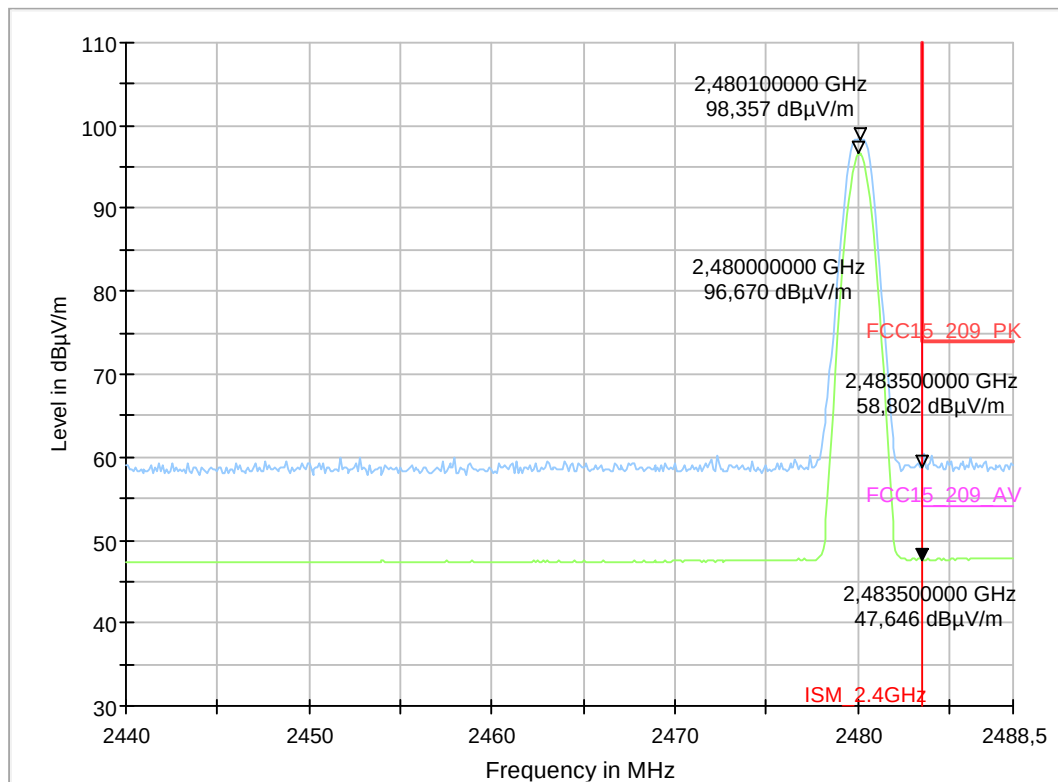
9.02b_BLE_ch39

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 1Mbit ch39
Operator:	SSanthakum
Comment:	Channel no. high
Comment2:	-
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C01
	Full Spectrum



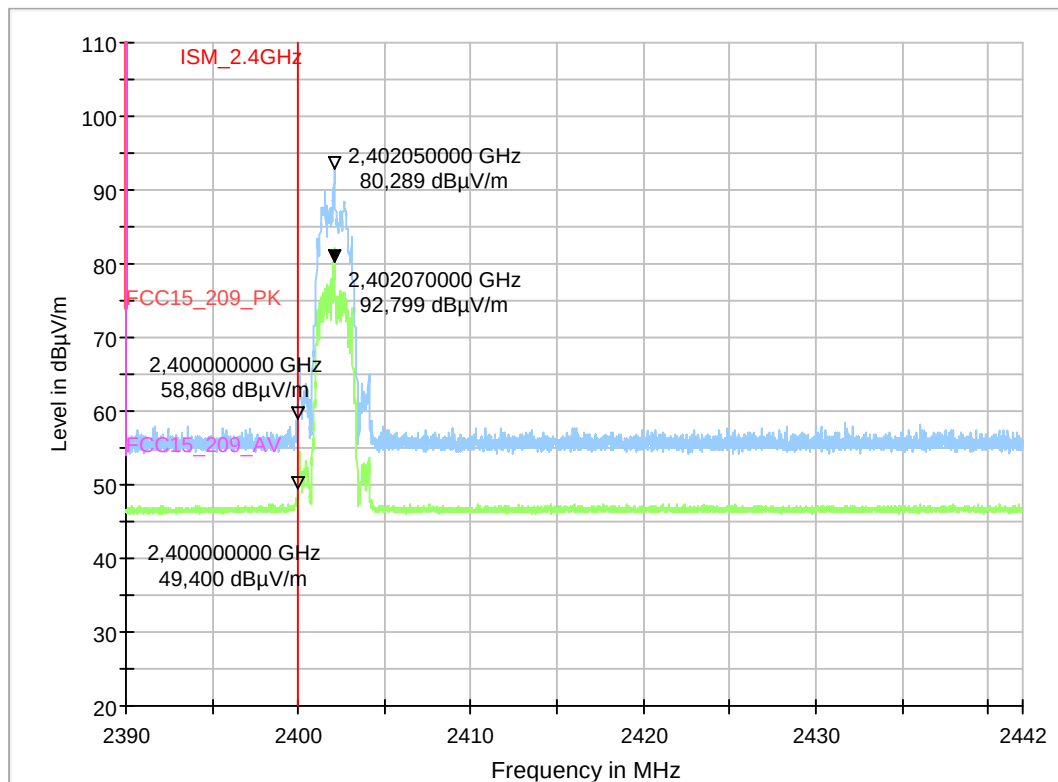
9.03a_BLE_ch00

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:	GFSK 2 Mbit ch00
Operator:	SSanthakum
Comment:	Channel no. low
Comment2:	-
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
	Full Spectrum



9.03b_BLE_ch00

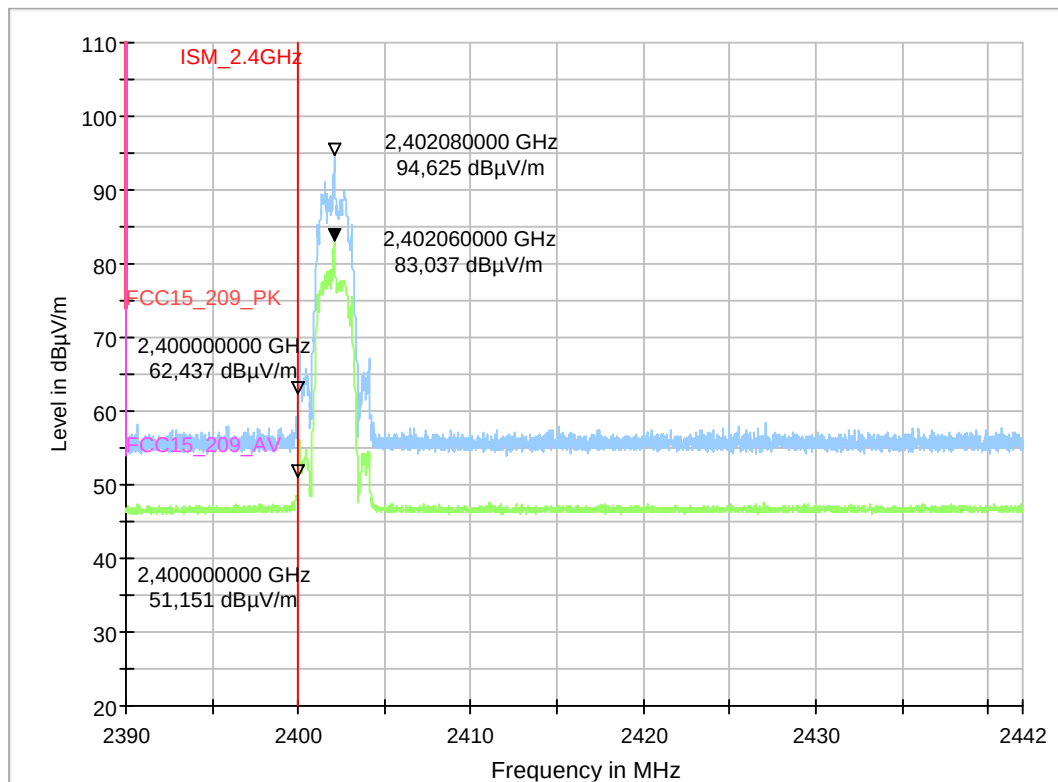
Common Information

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: GFSK | 2 Mbit | ch00
Operator: SSanthakum
Comment: Channel no. low
Comment2: -
EUT Setup: 1
Verdict: Passed

EUT Information

PMT number: 22-1-00250S04_C02
Full Spectrum



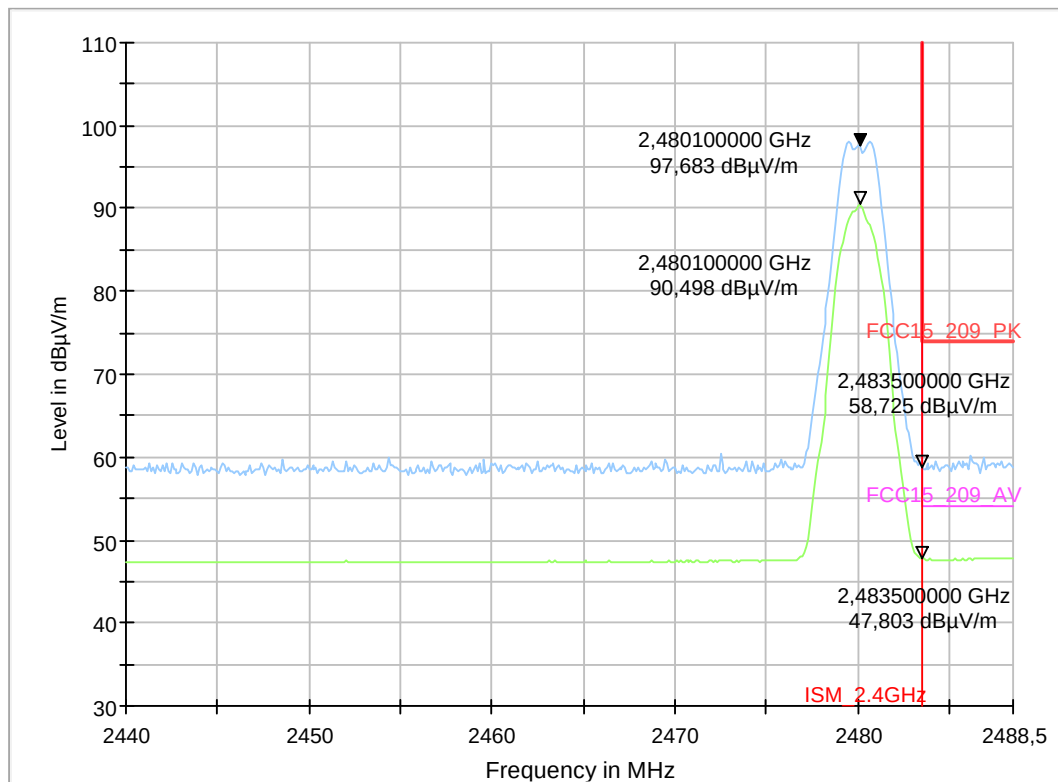
9.04a_BLE_ch39

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:	GFSK 2 Mbit ch39
Operator:	SSanthakum
Comment:	Channel no. high
Comment2:	-
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
	Full Spectrum



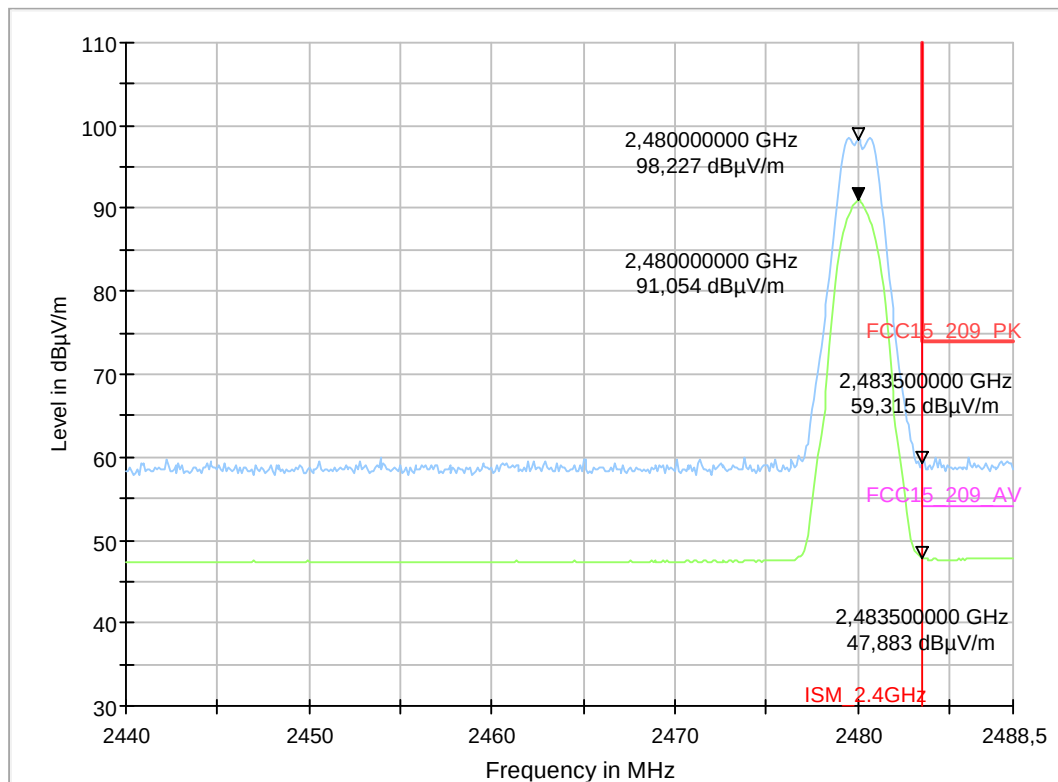
9.04b_BLE_ch39

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:	GFSK 2 Mbit ch39
Operator:	SSanthakum
Comment:	Channel no. high
Comment2:	-
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	22-1-00250S04_C02
	Full Spectrum



1.3 Conducted measurements

RF output power

Mode	DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
1Mbps (2402MHz)	2402.0000	-3.7	30.0	-3.7	85.434	PASS
1Mbps (2440MHz)	2440.0000	-1.3	30.0	-1.3	85.434	PASS
1Mbps (2480MHz)	2480.0000	-1.4	30.0	-1.4	85.454	PASS
2Mbps (2402MHz)	2402.0000	-3.7	30.0	-3.7	58.473	PASS
2Mbps (2440MHz)	2440.0000	-1.3	30.0	-1.3	58.474	PASS
2Mbps (2480MHz)	2480.0000	-2.3	30.0	-2.3	58.475	PASS

Peak output power (Sweep)

Mode	DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
1Mbps (2402MHz)	2402.000000	-4.5	30.0	PASS
1Mbps (2440MHz)	2440.000000	-2.8	30.0	PASS
1Mbps (2480MHz)	2480.000000	-3.8	30.0	PASS
2Mbps (2402MHz)	2402.000000	-5.6	30.0	PASS
2Mbps (2440MHz)	2440.000000	-2.7	30.0	PASS
2Mbps (2480MHz)	2480.000000	-3.7	30.0	PASS

Emission Bandwidth 20 dB

Mode	DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
1Mbps (2402MHz)	2402.0000	0.960000	---	---	2401.5750	2402.5350
1Mbps (2440MHz)	2440.0000	0.960000	---	---	2439.5750	2440.5350
1Mbps (2480MHz)	2480.0000	0.960000	---	---	2479.5850	2480.5450
2Mbps (2402MHz)	2402.0000	2.200000	---	---	2400.9150	2403.1150
2Mbps (2440MHz)	2440.0000	2.220000	---	---	2438.9050	2441.1250
2Mbps (2480MHz)	2480.0000	2.200000	---	---	2478.9250	2481.1250

Minimum Emission Bandwidth 6 dB

Mode	DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
1Mbps (2402MHz)	2402.0000	0.554456	0.500000	---	2401.7623	2402.3168
1Mbps (2440MHz)	2440.0000	0.554456	0.500000	---	2439.7623	2440.3168
1Mbps (2480MHz)	2480.0000	0.554456	0.500000	---	2479.7623	2480.3168
2Mbps (2402MHz)	2402.0000	1.544554	0.500000	---	2401.2475	2402.7920
2Mbps (2440MHz)	2440.0000	1.584158	0.500000	---	2439.2475	2440.8316
2Mbps (2480MHz)	2480.0000	1.544554	0.500000	---	2479.2475	2480.7920

Peak Power Spectral Density

Mode	DUT Frequency	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
1Mbps (2402MHz)	2402.000000	2402.097500	-6.239	8.0	PASS
1Mbps (2440MHz)	2440.000000	2440.102500	-3.484	8.0	PASS
1Mbps (2480MHz)	2480.000000	2480.107500	-3.819	8.0	PASS
2Mbps (2402MHz)	2402.000000	2402.052500	-10.672	8.0	PASS
2Mbps (2440MHz)	2440.000000	2440.057500	-7.843	8.0	PASS
2Mbps (2480MHz)	2480.000000	2480.052500	-7.754	8.0	PASS

Occupied Channel Bandwidth 99%

Mode	DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
1Mbps (2402MHz)	2402.0000	0.920000	---	---	2401.5850	2402.5050
1Mbps (2440MHz)	2440.0000	0.910000	---	---	2439.5950	2440.5050
1Mbps (2480MHz)	2480.0000	0.920000	---	---	2479.5950	2480.5150
2Mbps (2402MHz)	2402.0000	2.150000	---	---	2400.9550	2403.1050
2Mbps (2440MHz)	2440.0000	2.160000	---	---	2438.9550	2441.1150
2Mbps (2480MHz)	2480.0000	2.160000	---	---	2478.9450	2481.1050

Tx Spurious Emission

Mode	DUT Frequency (MHz)	Result
1Mbps (2402MHz)	2402.000000	PASS
1Mbps (2440MHz)	2440.000000	PASS
1Mbps (2480MHz)	2480.000000	PASS
2Mbps (2402MHz)	2402.000000	PASS
2Mbps (2440MHz)	2440.000000	PASS
2Mbps (2480MHz)	2480.000000	PASS

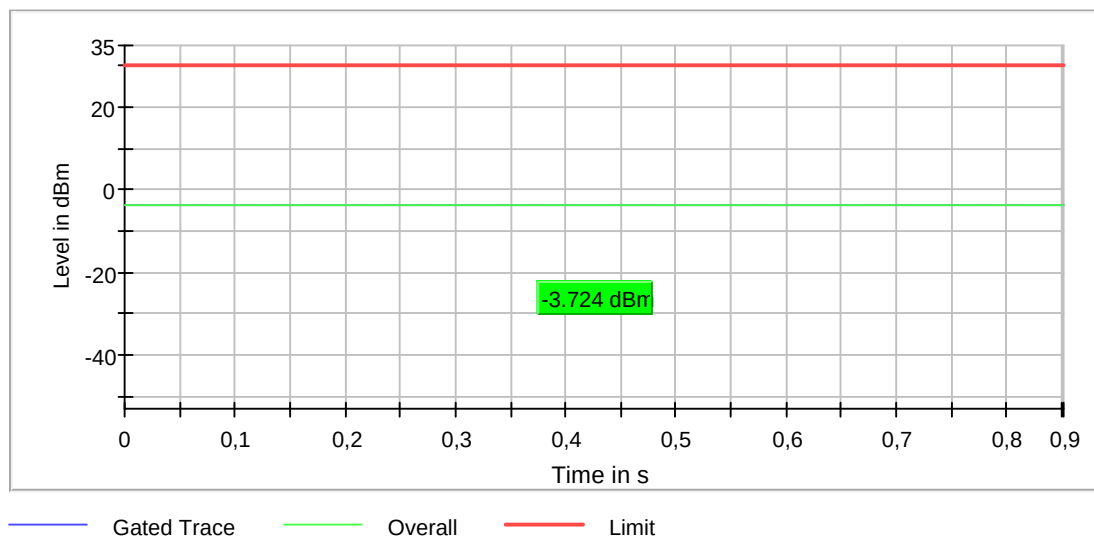
RF output power (2402 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2402.000000	-3.7	30.0	-3.7	85.434	PASS

Gated Trace



OSP PowerMeter settings

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

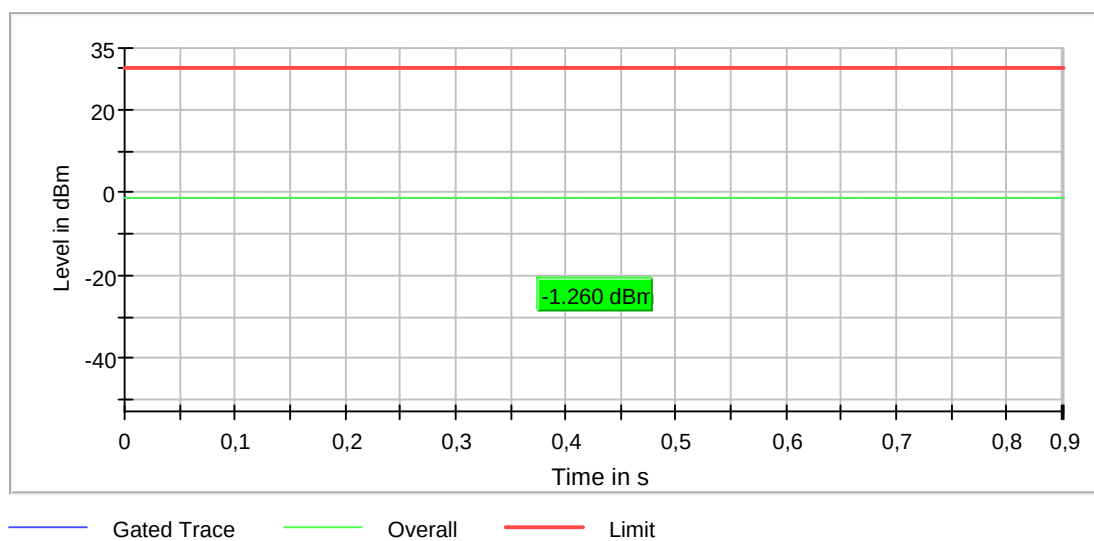
RF output power (2440 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2440.000000	-1.3	30.0	-1.3	85.434	PASS

Gated Trace



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

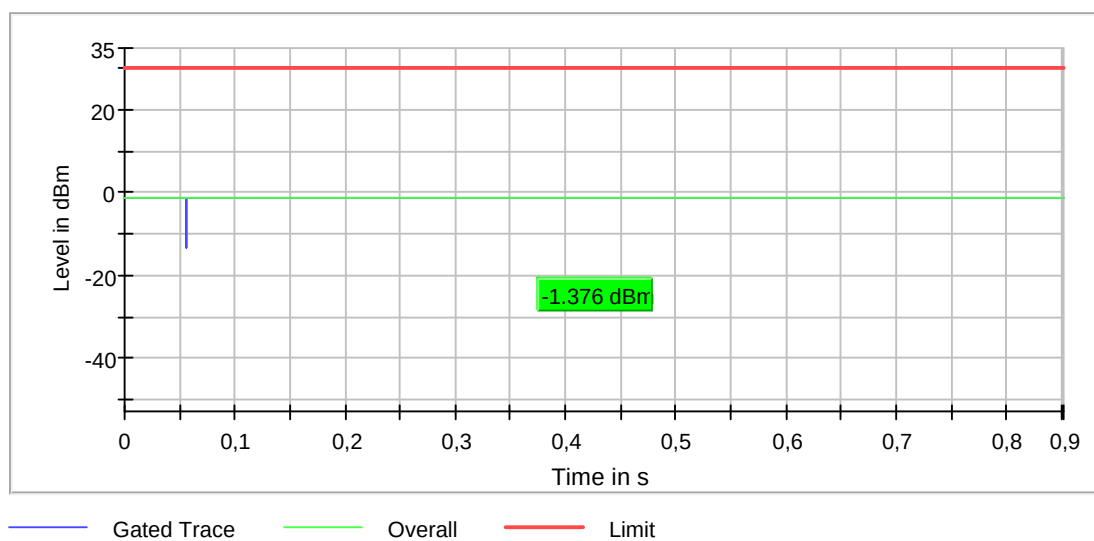
RF output power (2480 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2480.000000	-1.4	30.0	-1.4	85.454	PASS

Gated Trace



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

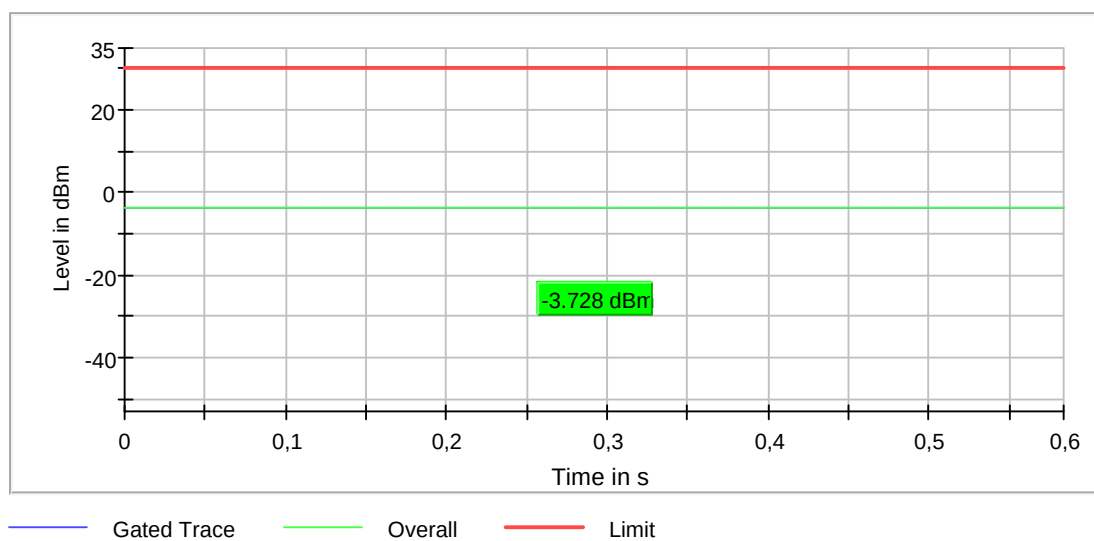
RF output power (2402 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2402.000000	-3.7	30.0	-3.7	58.473	PASS

Gated Trace



OSP PowerMeter settings

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

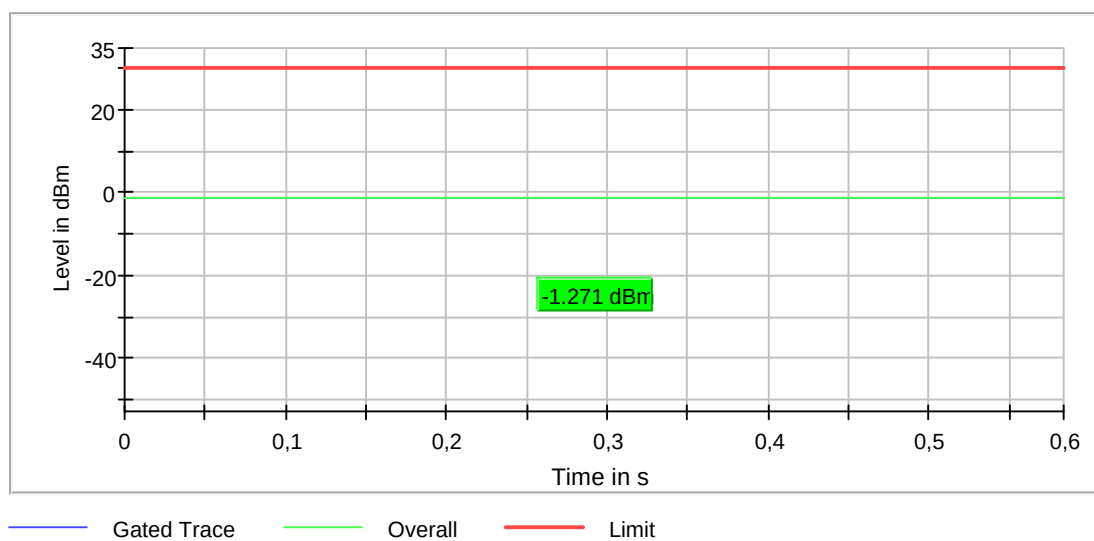
RF output power (2440 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2440.000000	-1.3	30.0	-1.3	58.474	PASS

Gated Trace



OSP PowerMeter settings

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

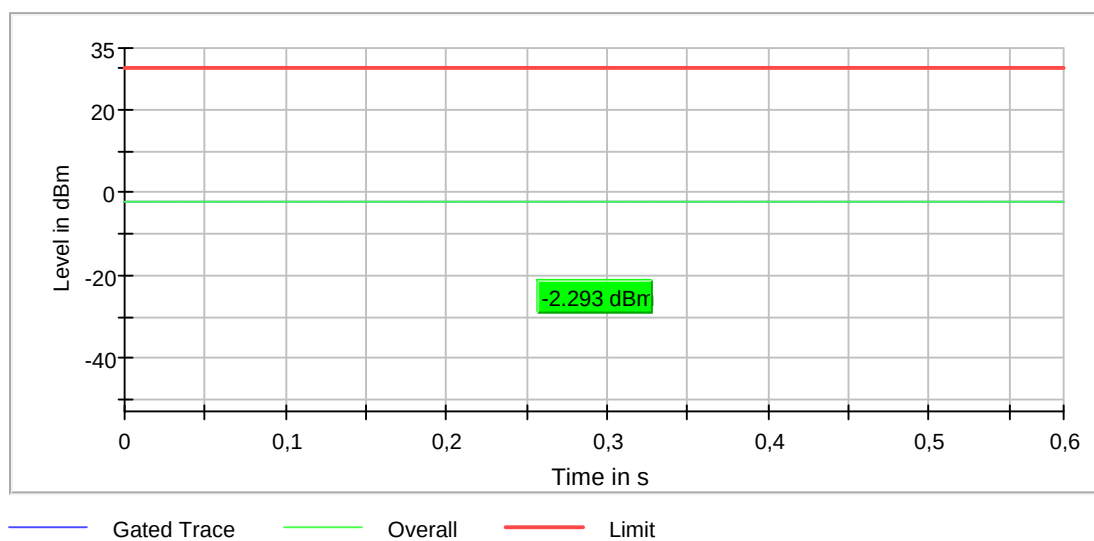
RF output power (2480 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2480.000000	-2.3	30.0	-2.3	58.475	PASS

Gated Trace



OSP PowerMeter settings

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

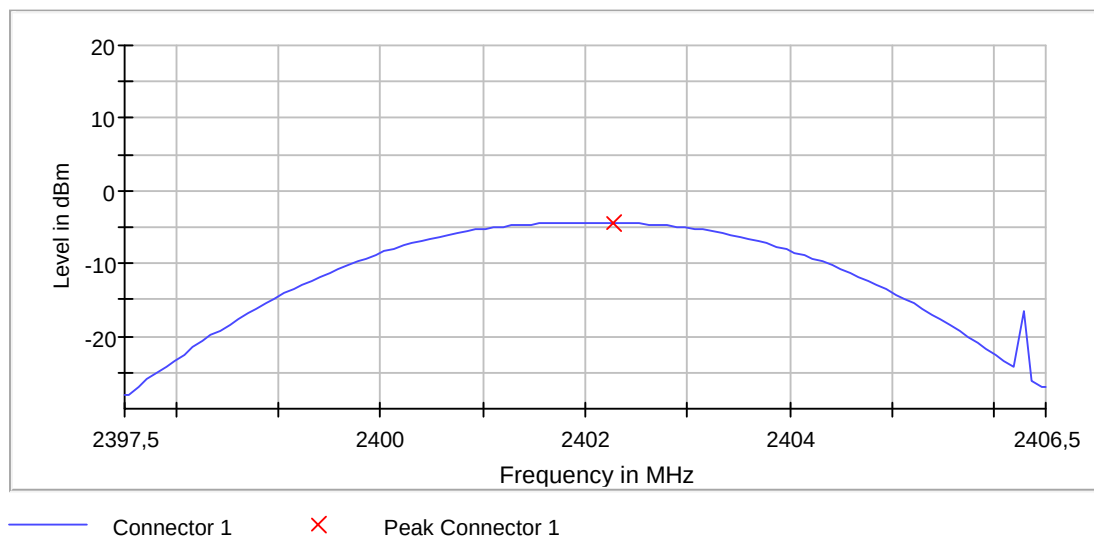
Peak output power (Sweep) (2402 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2402.000000	-4.5	30.0	PASS

Peak Power



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39750 GHz	2.39750 GHz
Stop Frequency	2.40650 GHz	2.40650 GHz
Span	9.000 MHz	9.000 MHz
RBW	3.000 MHz	>= 2.000 MHz
VBW	10.000 MHz	>= 9.000 MHz
SweepPoints	101	~ 101
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	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.03 dB	0.50 dB

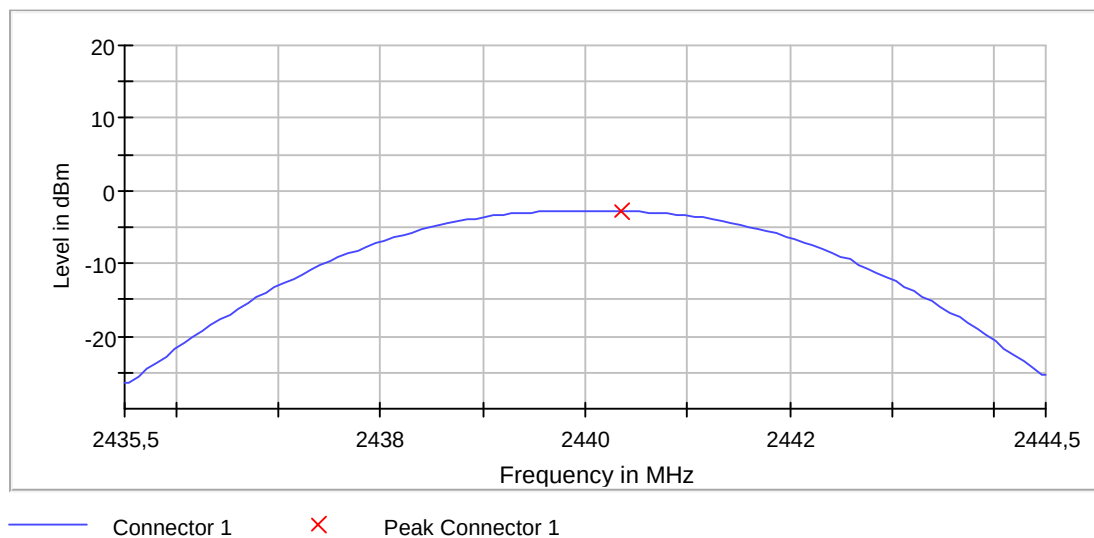
Peak output power (Sweep) (2440 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2440.000000	-2.8	30.0	PASS

Peak Power



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43550 GHz	2.43550 GHz
Stop Frequency	2.44450 GHz	2.44450 GHz
Span	9.000 MHz	9.000 MHz
RBW	3.000 MHz	>= 2.000 MHz
VBW	10.000 MHz	>= 9.000 MHz
SweepPoints	101	~ 101
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	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.03 dB	0.50 dB

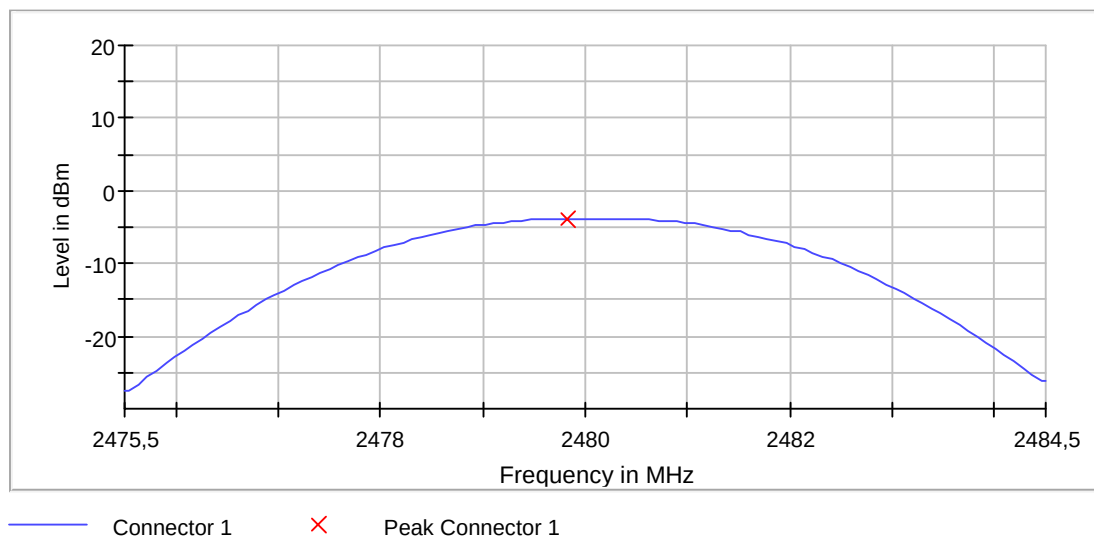
Peak output power (Sweep) (2480 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2480.000000	-3.8	30.0	PASS

Peak Power



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47550 GHz	2.47550 GHz
Stop Frequency	2.48450 GHz	2.48450 GHz
Span	9.000 MHz	9.000 MHz
RBW	3.000 MHz	>= 2.000 MHz
VBW	10.000 MHz	>= 9.000 MHz
SweepPoints	101	~ 101
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	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.04 dB	0.50 dB

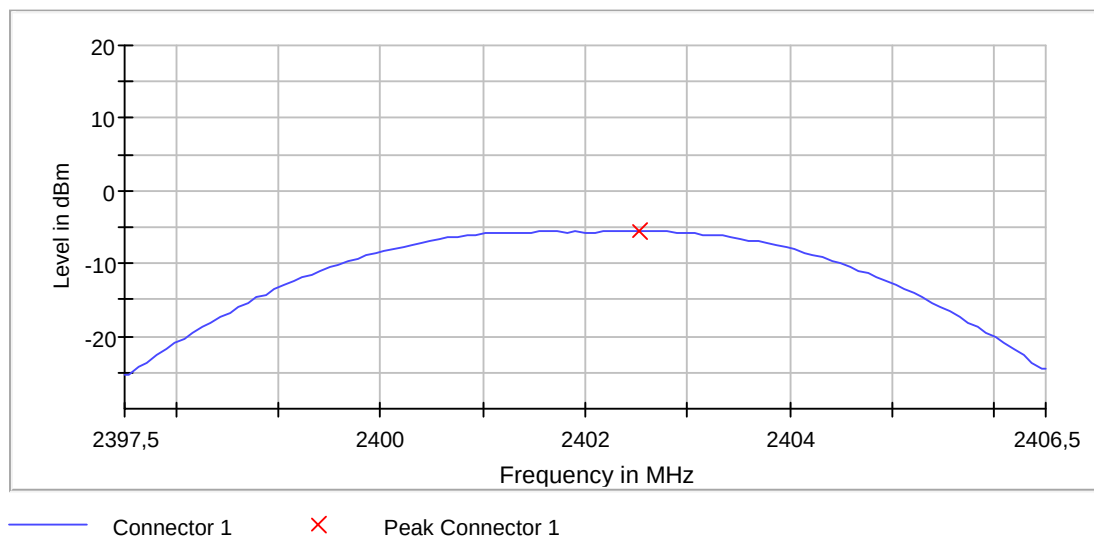
Peak output power (Sweep) (2402 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2402.000000	-5.6	30.0	PASS

Peak Power



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39750 GHz	2.39750 GHz
Stop Frequency	2.40650 GHz	2.40650 GHz
Span	9.000 MHz	9.000 MHz
RBW	3.000 MHz	>= 2.000 MHz
VBW	10.000 MHz	>= 9.000 MHz
SweepPoints	101	~ 101
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	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.02 dB	0.50 dB

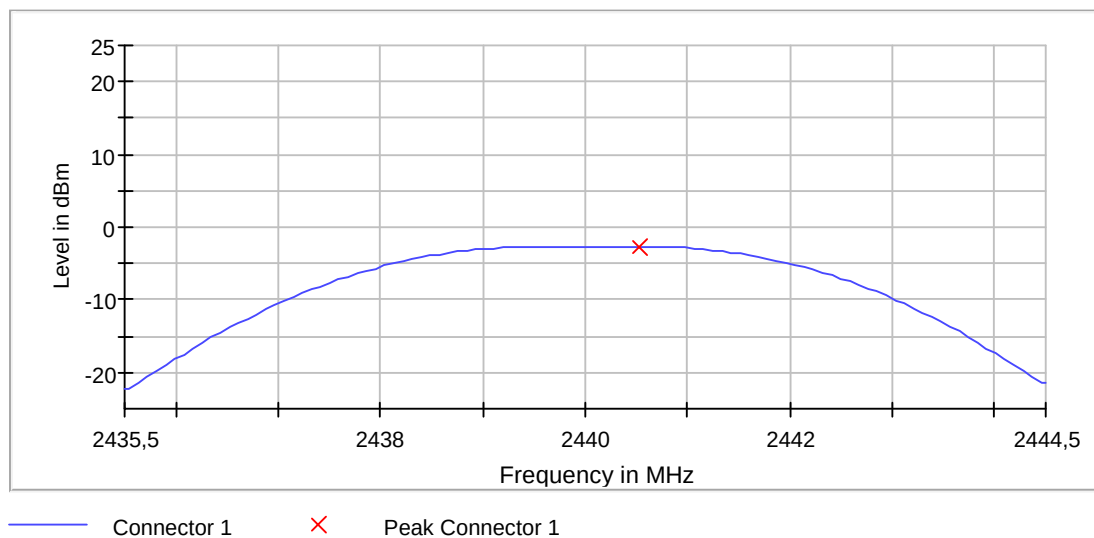
Peak output power (Sweep) (2440 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2440.000000	-2.7	30.0	PASS

Peak Power



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43550 GHz	2.43550 GHz
Stop Frequency	2.44450 GHz	2.44450 GHz
Span	9.000 MHz	9.000 MHz
RBW	3.000 MHz	>= 2.000 MHz
VBW	10.000 MHz	>= 9.000 MHz
SweepPoints	101	~ 101
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	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.06 dB	0.50 dB

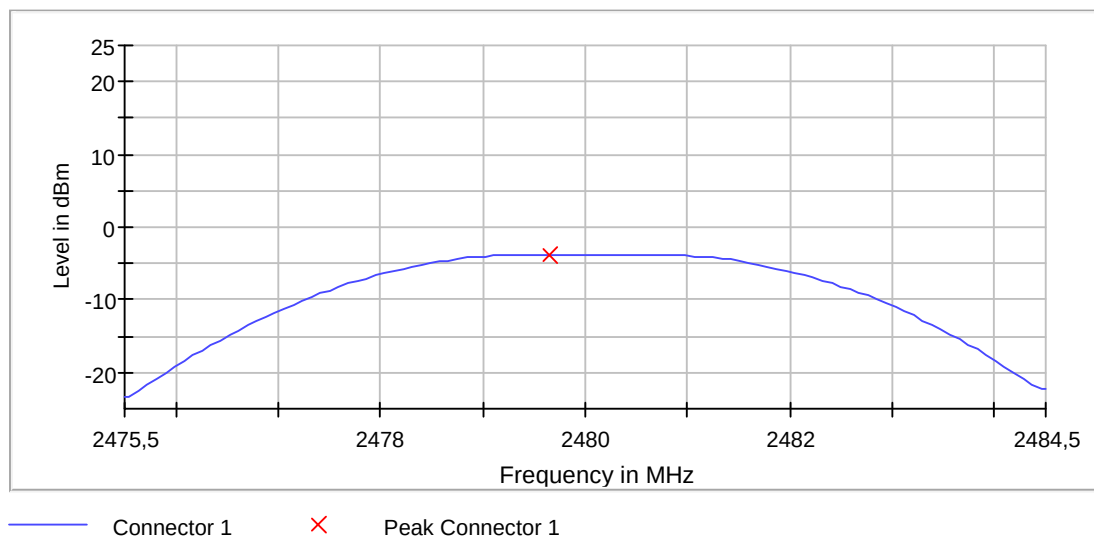
Peak output power (Sweep) (2480 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2480.000000	-3.7	30.0	PASS

Peak Power



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47550 GHz	2.47550 GHz
Stop Frequency	2.48450 GHz	2.48450 GHz
Span	9.000 MHz	9.000 MHz
RBW	3.000 MHz	≥ 2.000 MHz
VBW	10.000 MHz	≥ 9.000 MHz
SweepPoints	101	~ 101
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	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.03 dB	0.50 dB

Emission Bandwidth 20 dB (2402 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

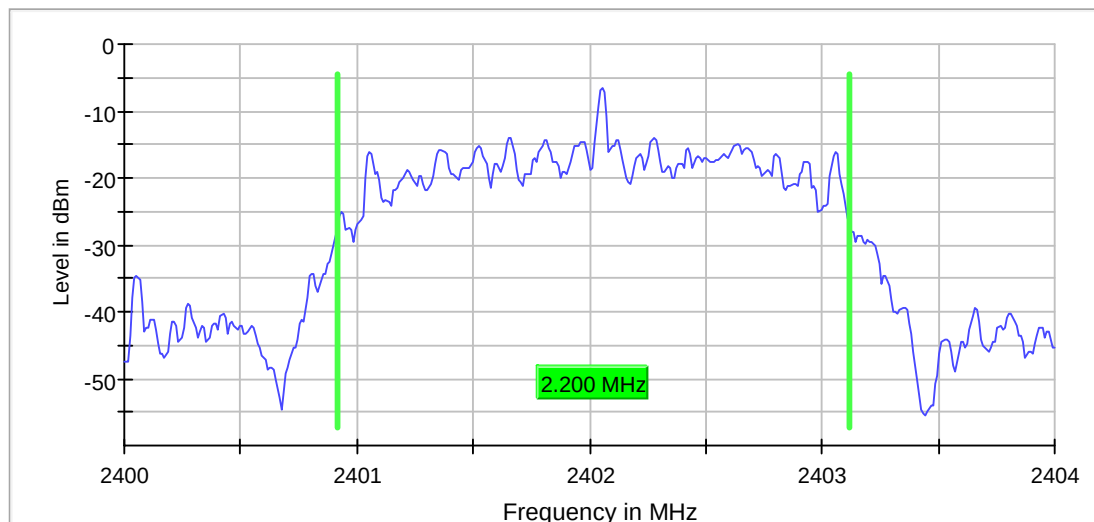
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	2.200000	---	---	2400.915000	2403.115000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-6.5	PASS

20 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.36 dB	0.50 dB

Emission Bandwidth 20 dB (2440 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

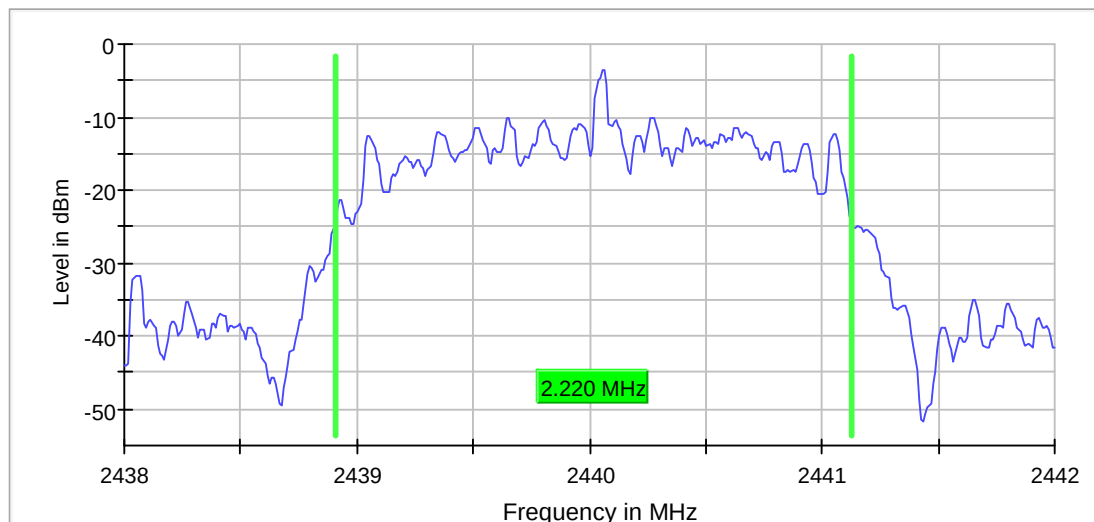
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	2.220000	---	---	2438.905000	2441.125000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	-3.6	PASS

20 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	0.06 dB	0.50 dB

Emission Bandwidth 20 dB (2480 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

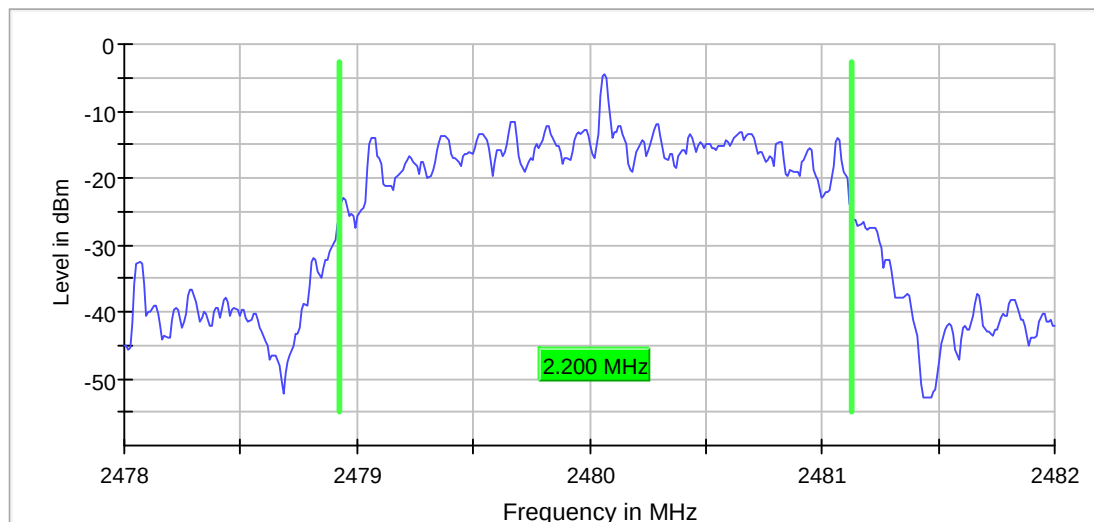
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	2.200000	---	---	2478.925000	2481.125000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

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

20 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
SweepTime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	0.14 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2402 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

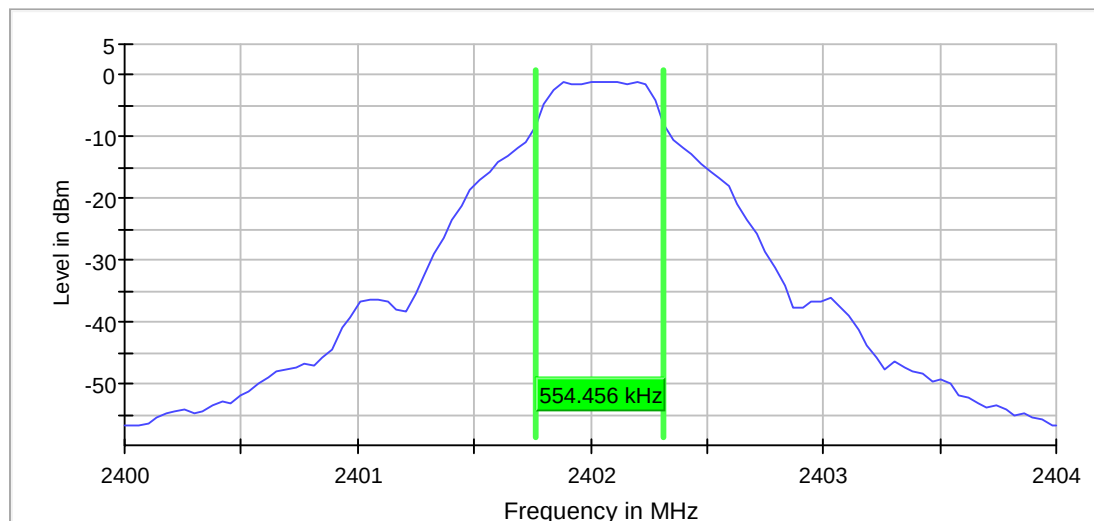
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.554456	0.500000	---	2401.762376	2402.316832

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-1.1	PASS

6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
SweepTime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	11 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2440 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

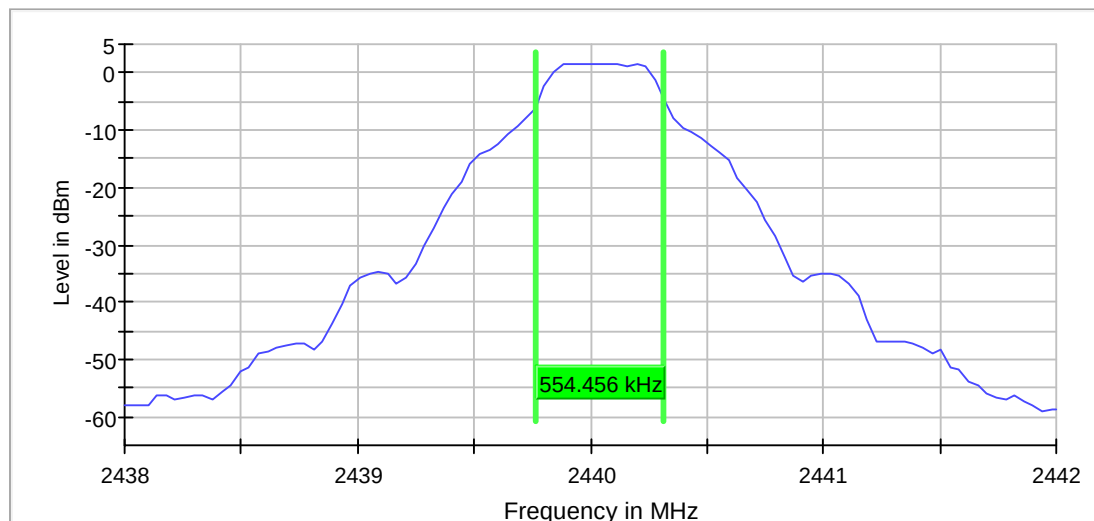
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	0.554456	0.500000	---	2439.762376	2440.316832

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	1.6	PASS

6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
SweepTime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	11 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.14 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2480 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

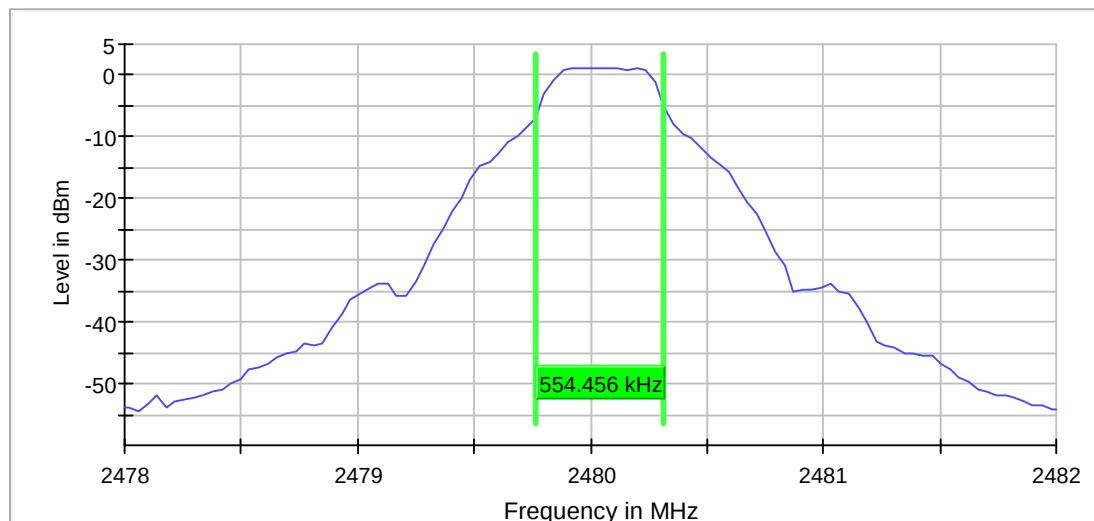
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.554456	0.500000	---	2479.762376	2480.316832

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	1.2	PASS

6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
SweepTime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	0.21 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2402 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

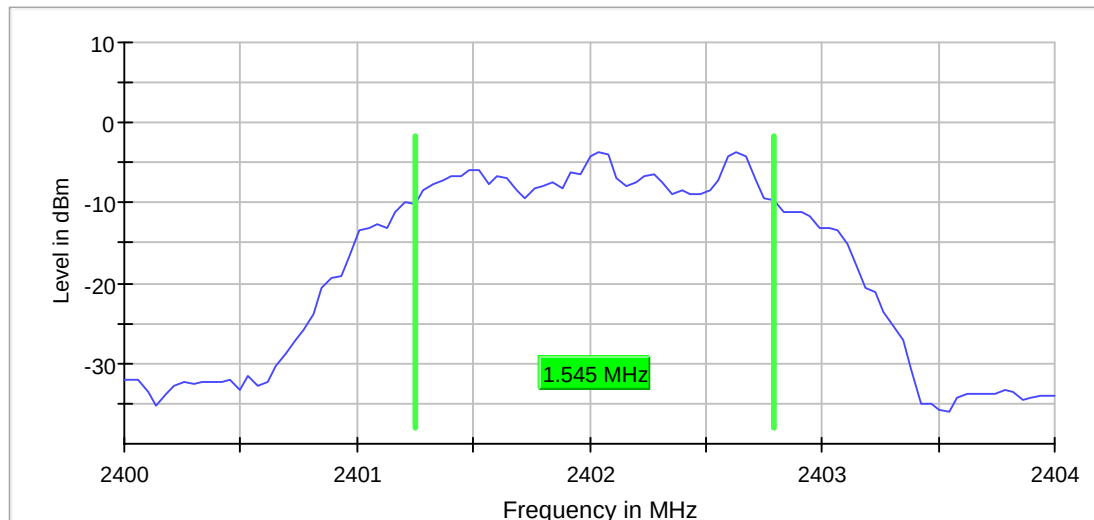
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.544554	0.500000	---	2401.247525	2402.792079

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-3.6	PASS

6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	0.00 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2440 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

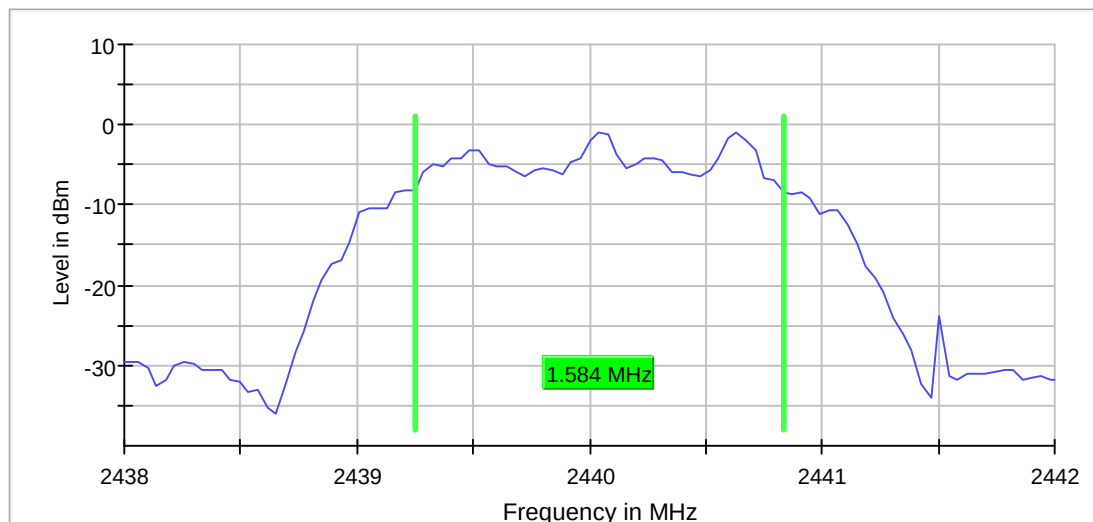
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.584158	0.500000	---	2439.247525	2440.831683

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	-1.0	PASS

6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	11 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2480 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

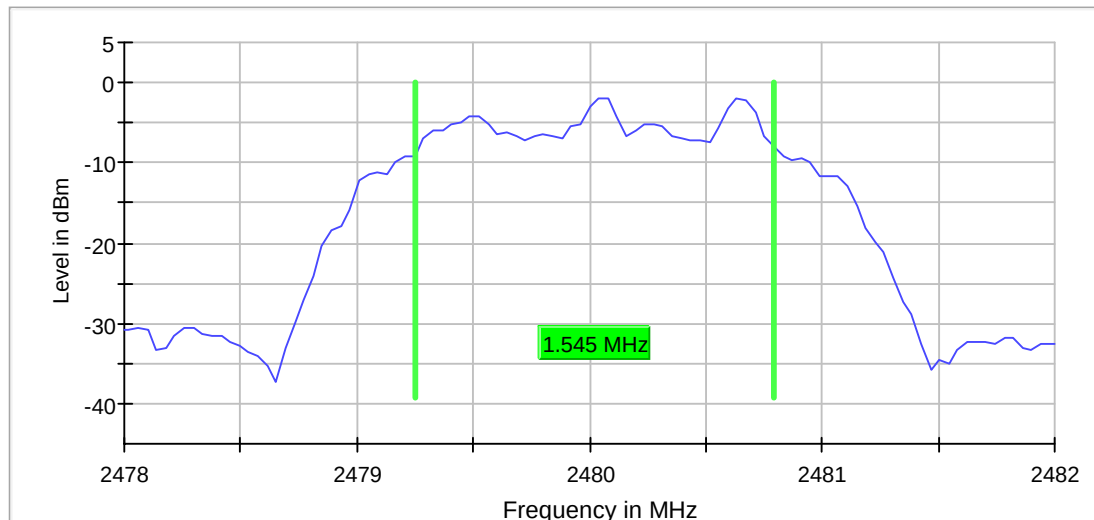
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.544554	0.500000	---	2479.247525	2480.792079

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-2.0	PASS

6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	0.08 dB	0.50 dB

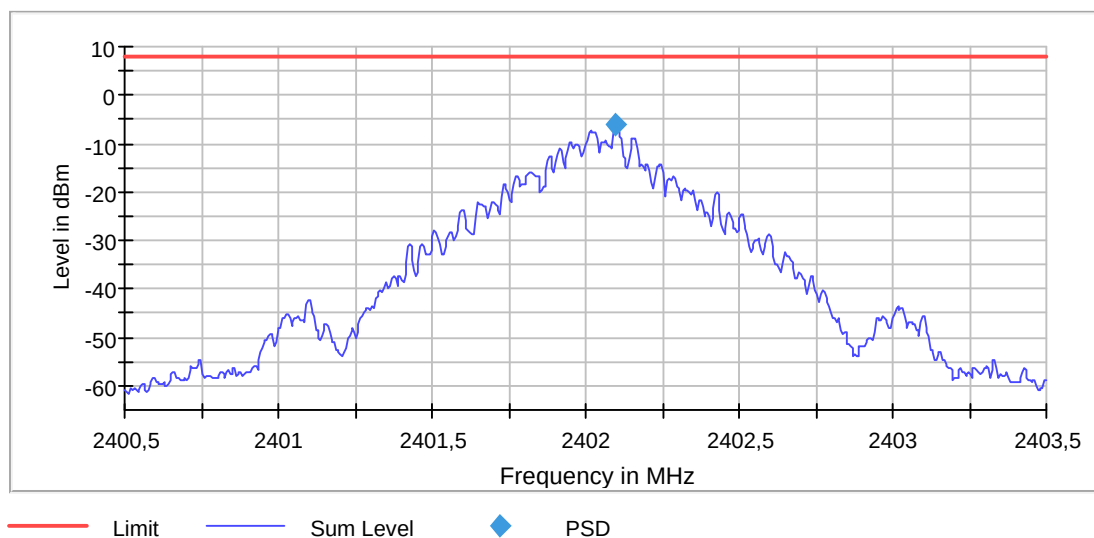
Peak Power Spectral Density (2402 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2402.097500	-6.239	8.0	PASS

Peak Power Spectral Density



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	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	600	~ 600
SweepTime	3.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	4 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.40 dB	0.50 dB

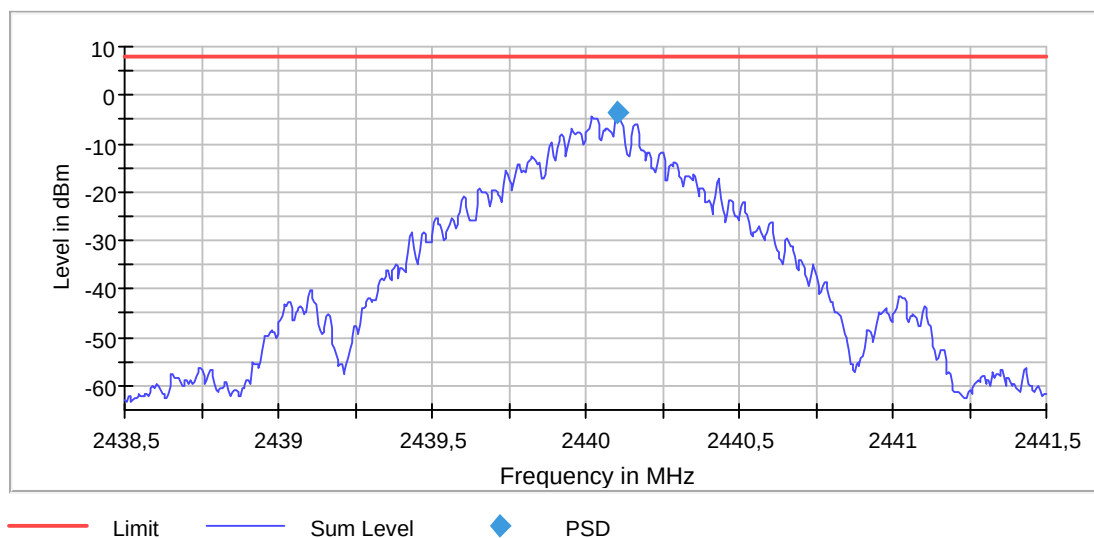
Peak Power Spectral Density (2440 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.102500	-3.484	8.0	PASS

Peak Power Spectral Density



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43850 GHz	2.43850 GHz
Stop Frequency	2.44150 GHz	2.44150 GHz
Span	3.000 MHz	3.000 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	600	~ 600
SweepTime	3.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	4 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.45 dB	0.50 dB

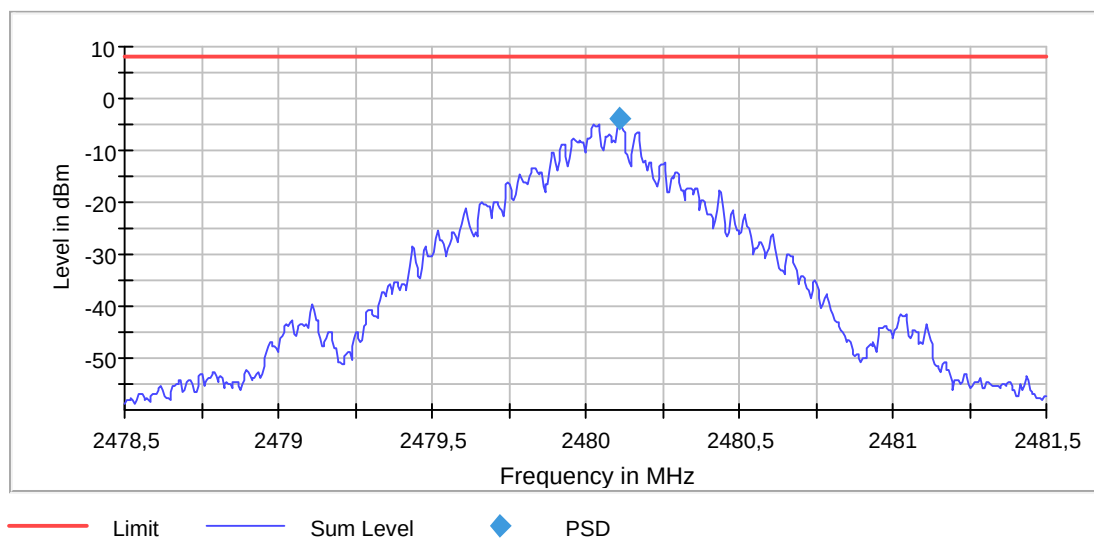
Peak Power Spectral Density (2480 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2480.107500	-3.819	8.0	PASS

Peak Power Spectral Density



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	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	600	~ 600
SweepTime	3.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	4 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.19 dB	0.50 dB

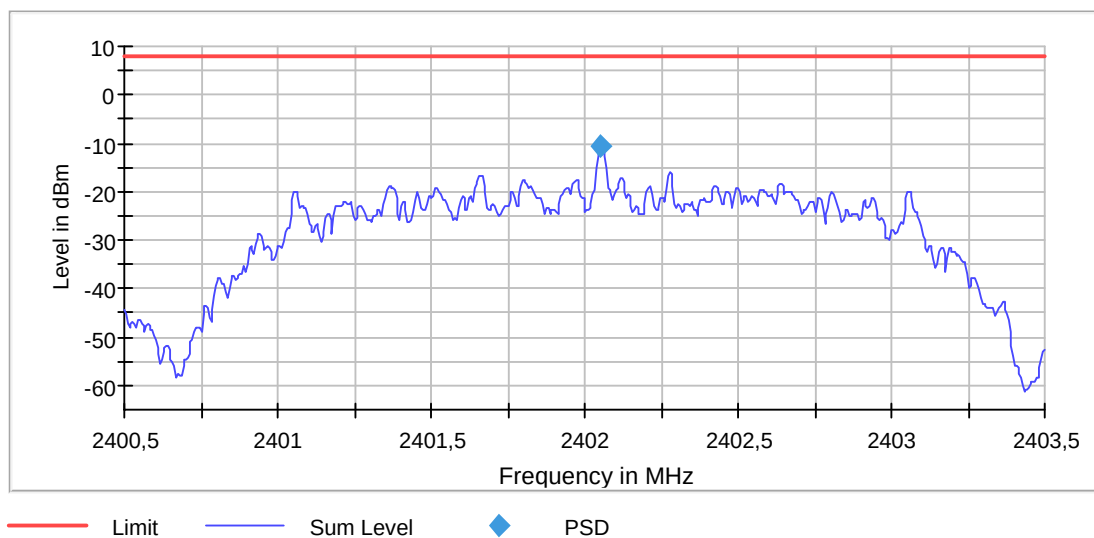
Peak Power Spectral Density (2402 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2402.052500	-10.672	8.0	PASS

Peak Power Spectral Density



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	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	600	~ 600
SweepTime	3.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	4 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.26 dB	0.50 dB

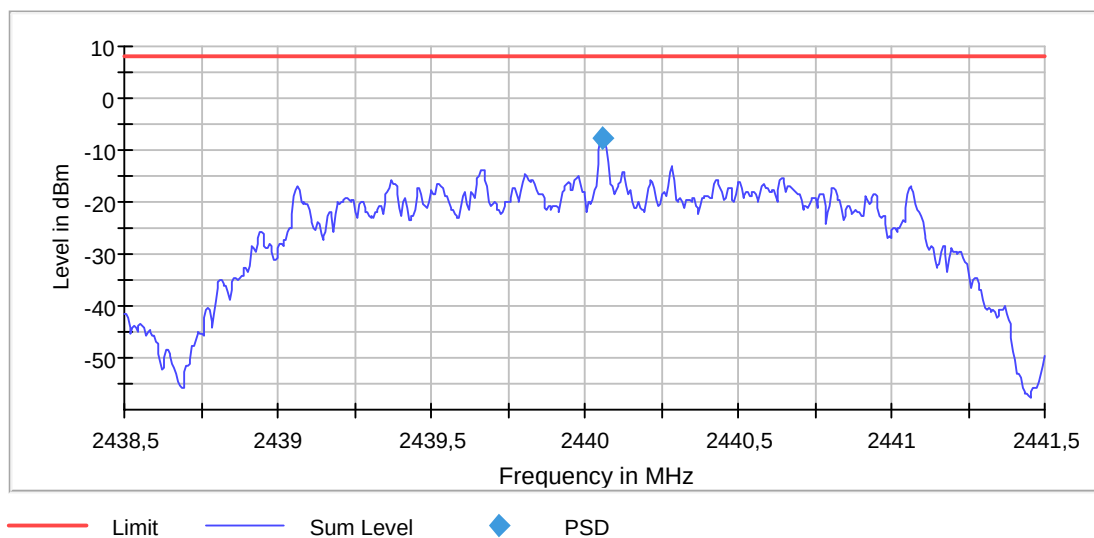
Peak Power Spectral Density (2440 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.057500	-7.843	8.0	PASS

Peak Power Spectral Density



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43850 GHz	2.43850 GHz
Stop Frequency	2.44150 GHz	2.44150 GHz
Span	3.000 MHz	3.000 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	600	~ 600
SweepTime	3.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	6 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.08 dB	0.50 dB

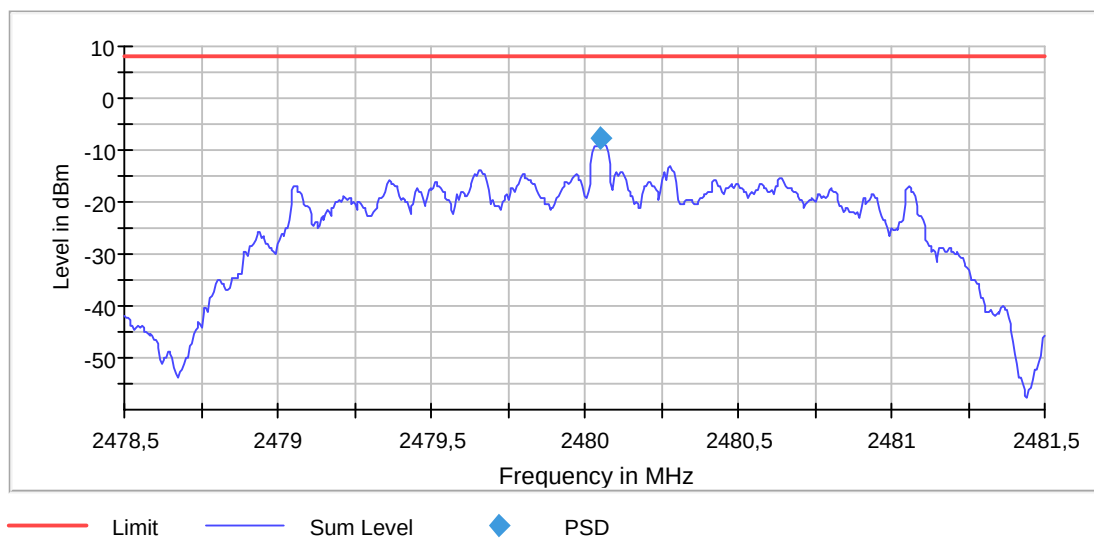
Peak Power Spectral Density (2480 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2480.052500	-7.754	8.0	PASS

Peak Power Spectral Density



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	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	600	~ 600
SweepTime	3.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	10 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.00 dB	0.50 dB

Occupied Channel Bandwidth 99% (2402 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

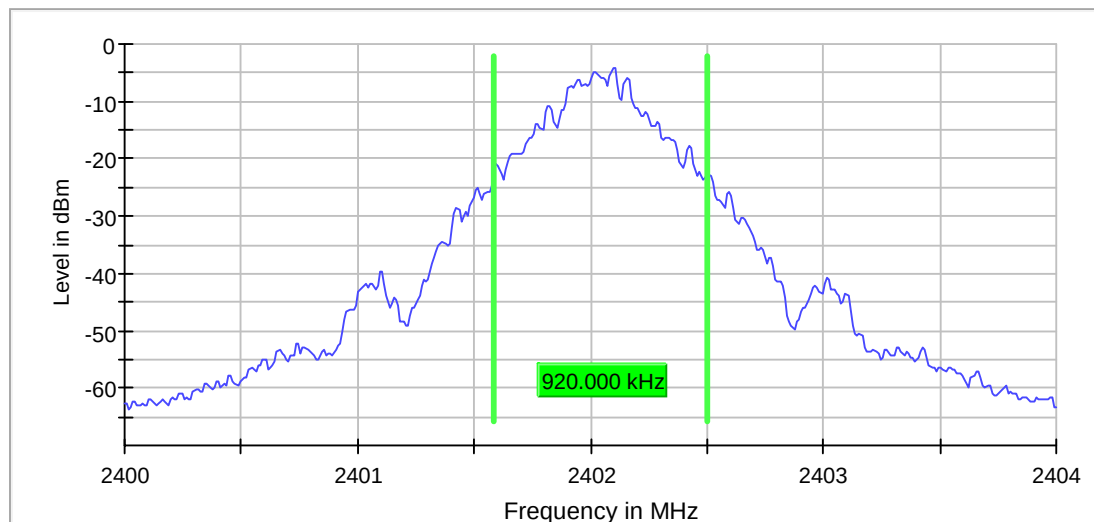
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.920000	---	---	2401.585000	2402.505000

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

DUT Frequency (MHz)	Result
2402.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
SweepTime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	0.30 dB	0.30 dB
Run	8 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.18 dB	0.30 dB

Occupied Channel Bandwidth 99% (2440 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

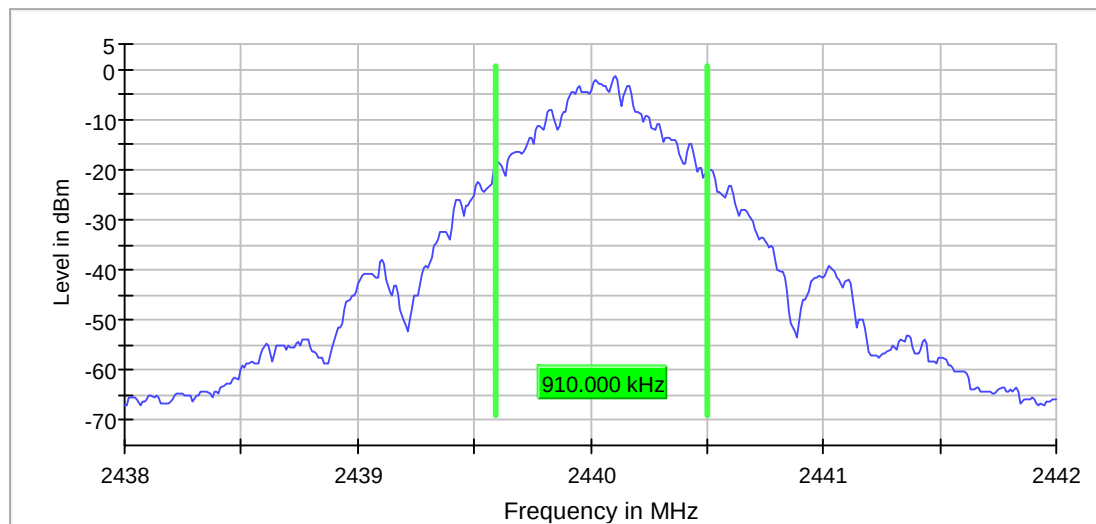
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	0.910000	---	---	2439.595000	2440.505000

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

DUT Frequency (MHz)	Result
2440.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
SweepTime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.13 dB	0.30 dB

Occupied Channel Bandwidth 99% (2480 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

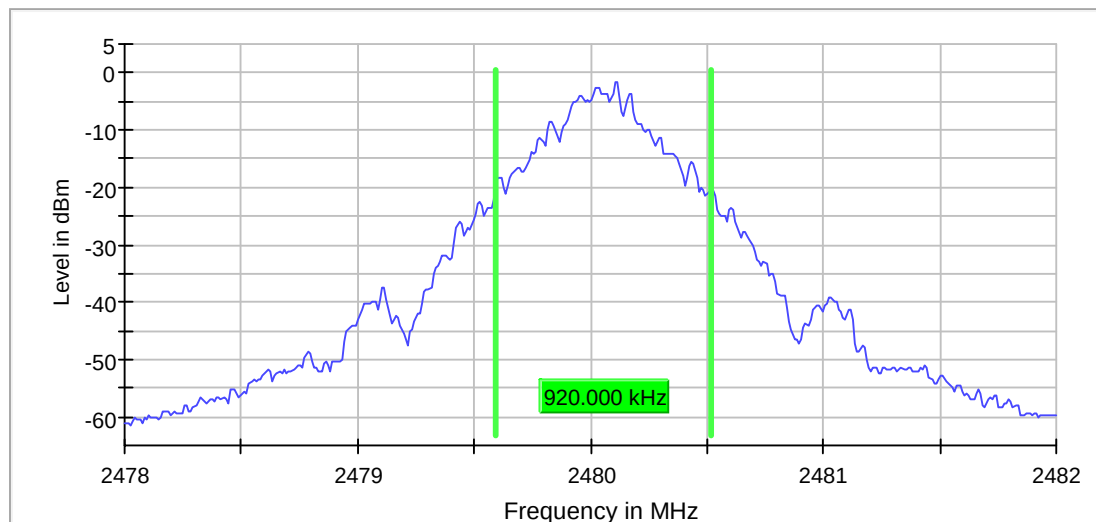
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.920000	---	---	2479.595000	2480.515000

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

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
SweepTime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	0.30 dB	0.30 dB
Run	9 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.18 dB	0.30 dB

Occupied Channel Bandwidth 99% (2402 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

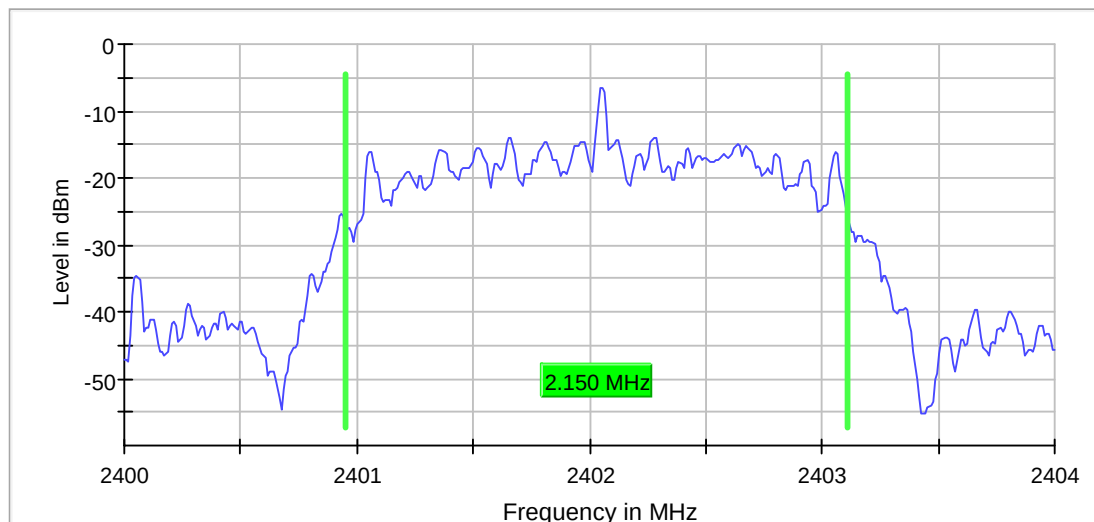
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	2.150000	---	---	2400.955000	2403.105000

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

DUT Frequency (MHz)	Result
2402.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	0.30 dB	0.30 dB
Run	9 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.03 dB	0.30 dB

Occupied Channel Bandwidth 99% (2440 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

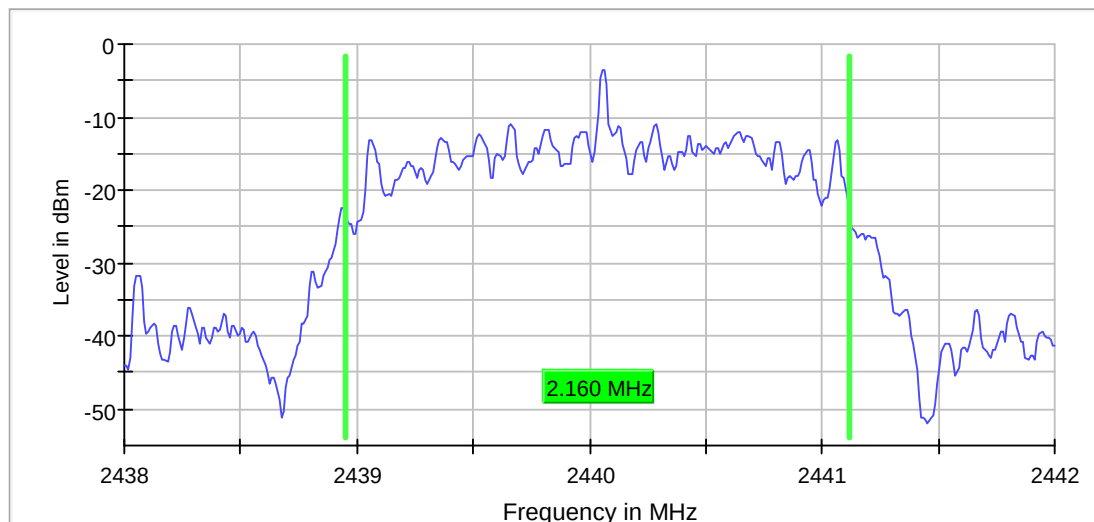
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	2.160000	---	---	2438.955000	2441.115000

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

DUT Frequency (MHz)	Result
2440.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
SweepTime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	0.30 dB	0.30 dB
Run	10 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.06 dB	0.30 dB

Occupied Channel Bandwidth 99% (2480 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

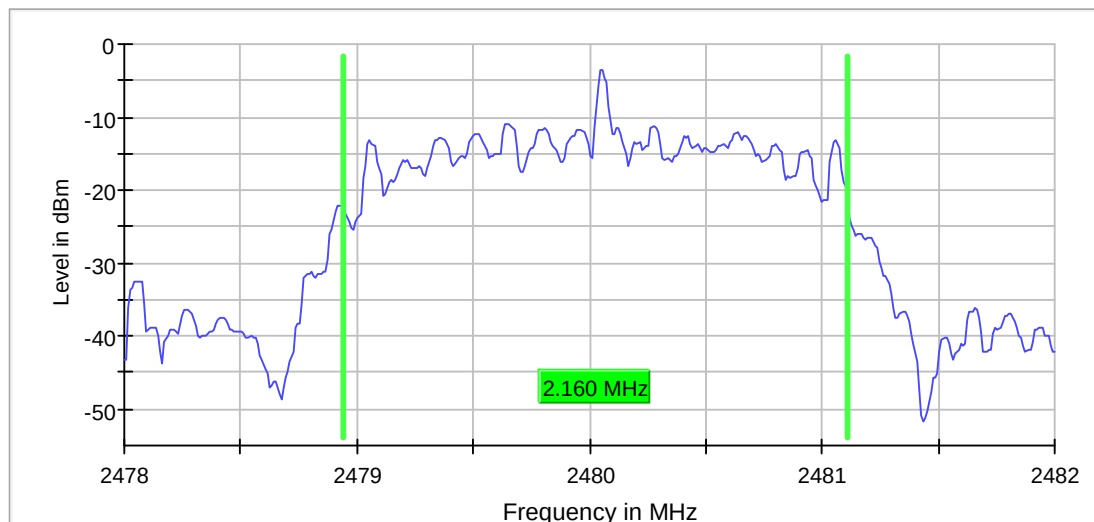
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	2.160000	---	---	2478.945000	2481.105000

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

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
SweepTime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	0.30 dB	0.30 dB
Run	15 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.30 dB

Tx Spurious Emission (2402 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Final measurements

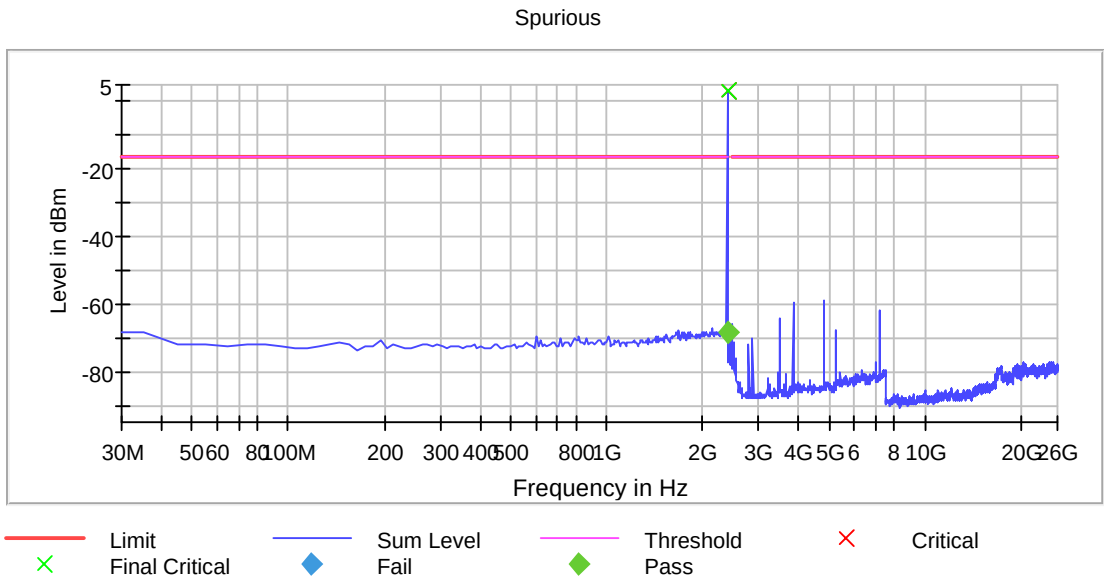
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2399.759163	3.0	-68.5	-16.6	52.0	PASS

Pre Measurements

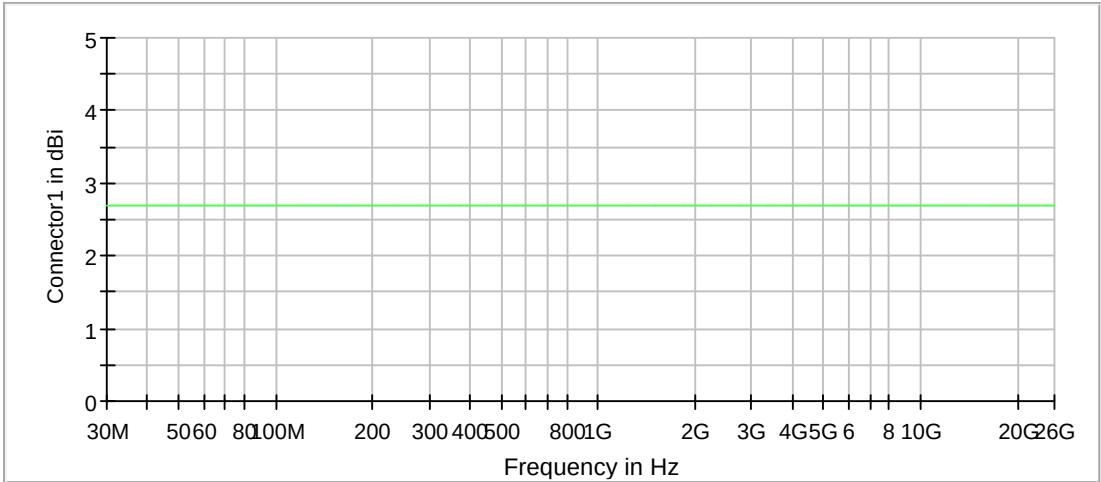
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2395.021008	3.0	-19.5	-16.6
4807.166065	-59.0	42.4	-16.6
3847.716851	-59.2	42.7	-16.6
7205.789099	-61.8	45.2	-16.6
3497.917658	-64.4	47.8	-16.6
2385.063025	-66.3	49.7	-16.6
2355.189076	-66.4	49.9	-16.6
2375.105042	-67.3	50.8	-16.6
2146.071429	-67.4	50.8	-16.6
2335.273109	-67.5	50.9	-16.6
1688.004202	-67.9	51.3	-16.6
5236.919358	-67.9	51.3	-16.6
2315.357143	-68.0	51.4	-16.6
2325.315126	-68.1	51.5	-16.6
1717.878151	-68.2	51.6	-16.6

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

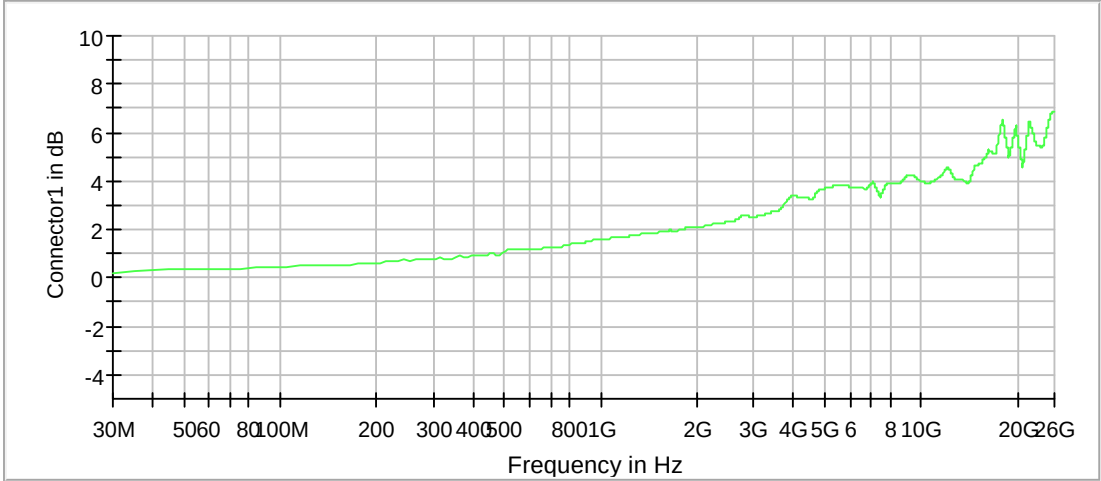


Gain



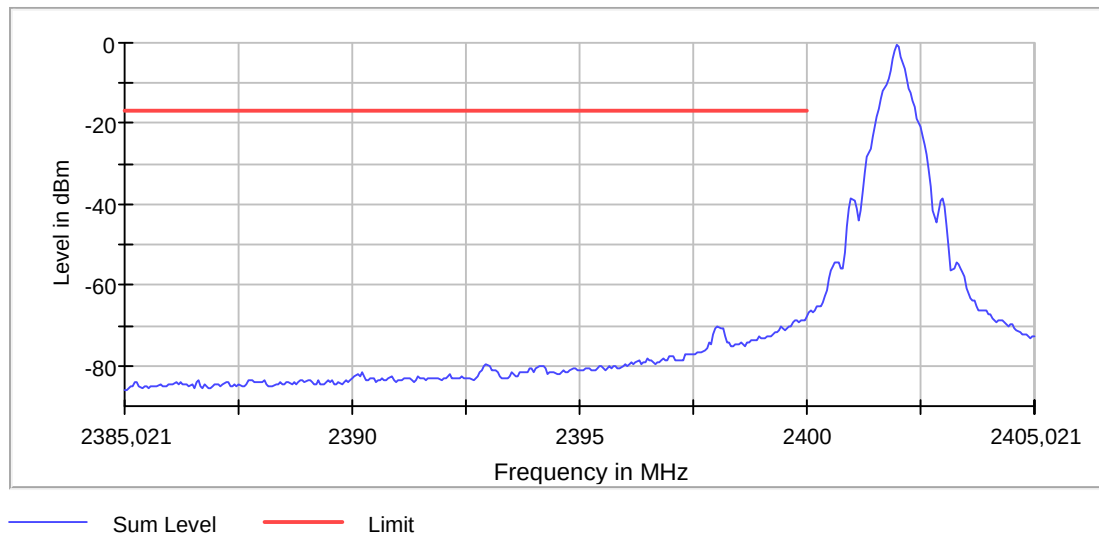
Connector1

Attenuation



Connector1

FinalMeas_2395021008Hz



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	5 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.18 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 (2440 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2440.000000	PASS

Final measurements

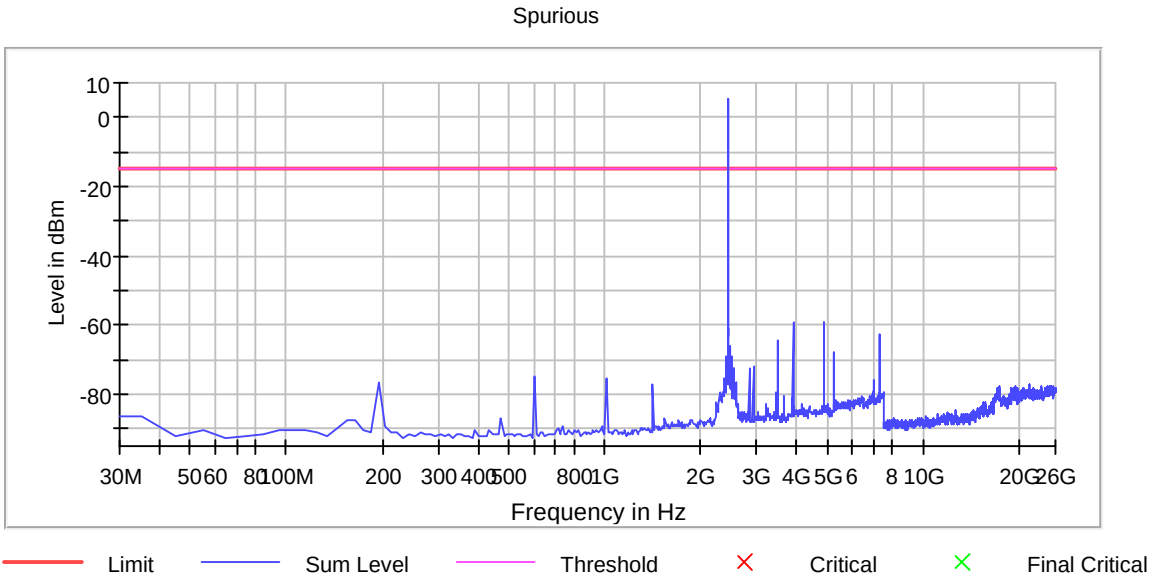
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

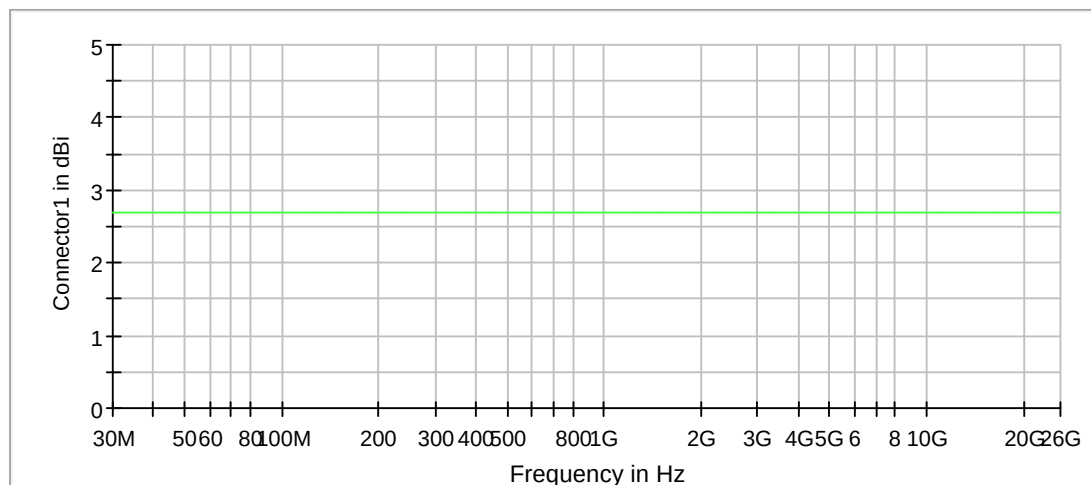
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
3907.682427	-59.2	44.4	-14.8
4877.125903	-59.3	44.5	-14.8
7315.725988	-62.6	47.8	-14.8
3497.917658	-64.4	49.7	-14.8
7325.720251	-66.8	52.0	-14.8
5236.919358	-68.0	53.2	-14.8
2518.479919	-69.0	54.2	-14.8
2928.244688	-72.0	57.3	-14.8
2548.462707	-72.6	57.8	-14.8
2848.290586	-72.7	57.9	-14.8
602.584034	-74.9	60.2	-14.8
1010.861345	-75.3	60.5	-14.8
2385.063025	-75.6	60.8	-14.8
6985.915321	-76.1	61.3	-14.8
194.306723	-76.5	61.7	-14.8

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

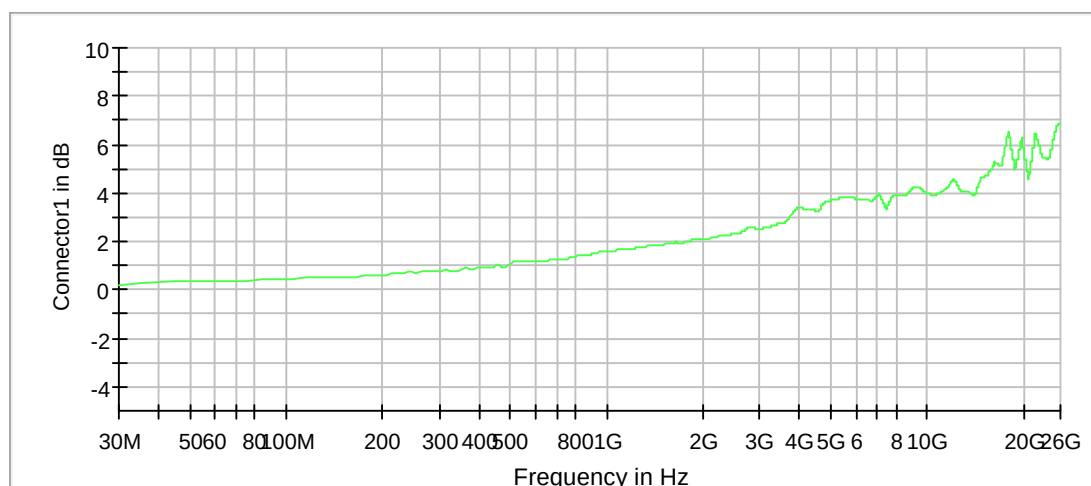


Gain



Connector1

Attenuation



Connector1

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	12 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.01 dB	0.50 dB

Tx Spurious Emission (2480 MHz; 1Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Final measurements

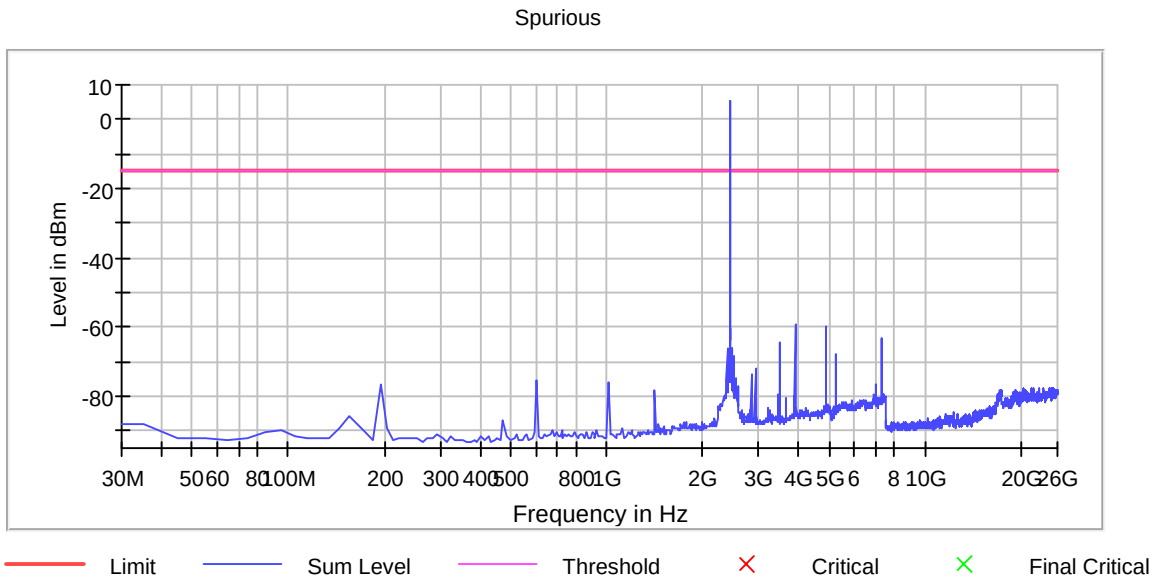
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

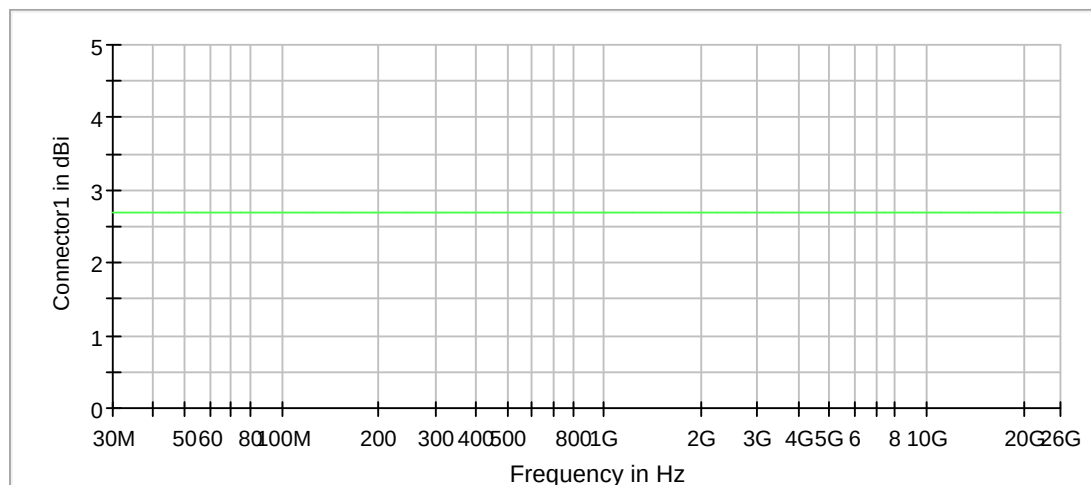
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
3907.682427	-59.1	44.6	-14.5
4877.125903	-59.7	45.1	-14.5
7315.725988	-63.1	48.5	-14.5
3497.917658	-64.5	49.9	-14.5
2395.021008	-66.2	51.7	-14.5
7325.720251	-67.7	53.2	-14.5
5236.919358	-68.1	53.5	-14.5
2518.479919	-68.4	53.8	-14.5
2928.244688	-72.2	57.6	-14.5
2848.290586	-73.5	59.0	-14.5
2548.462707	-74.8	60.2	-14.5
602.584034	-75.2	60.6	-14.5
2385.063025	-75.5	61.0	-14.5
1010.861345	-75.7	61.2	-14.5
194.306723	-76.7	62.1	-14.5

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

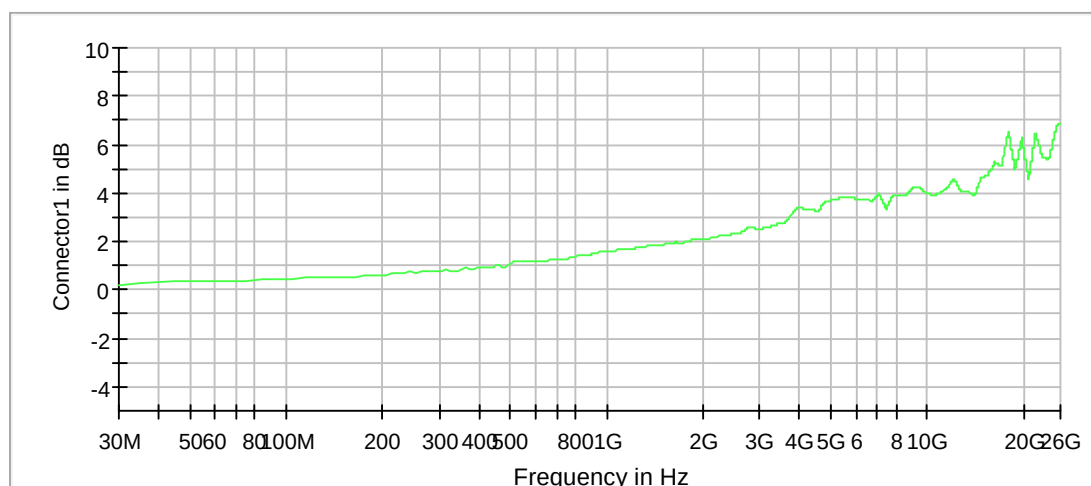


Gain



Connector1

Attenuation



Connector1

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	6 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Tx Spurious Emission (2402 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Final measurements

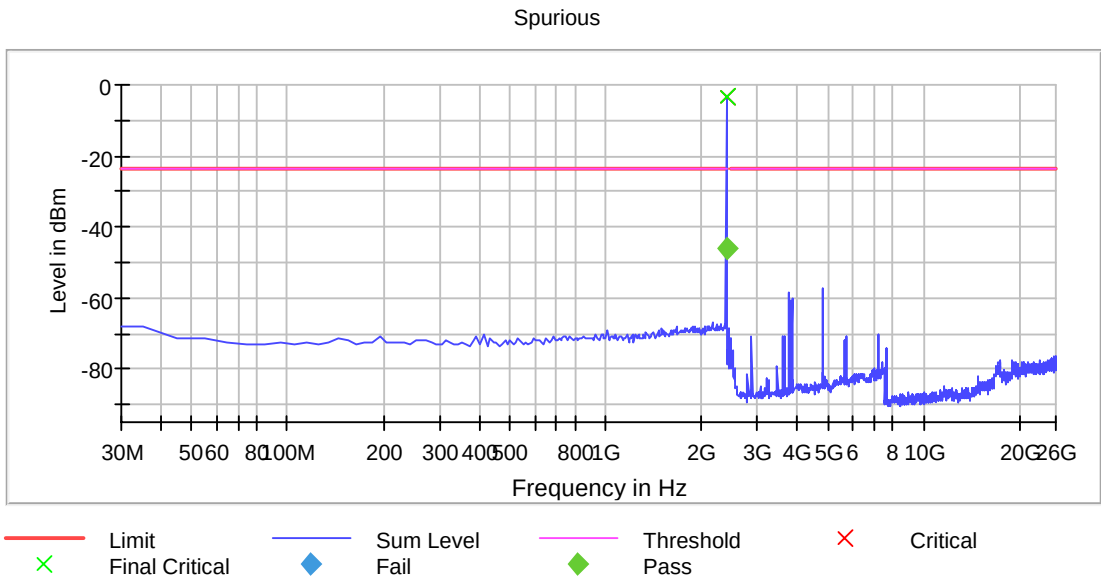
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2399.958664	-3.6	-46.1	-23.6	22.5	PASS

Pre Measurements

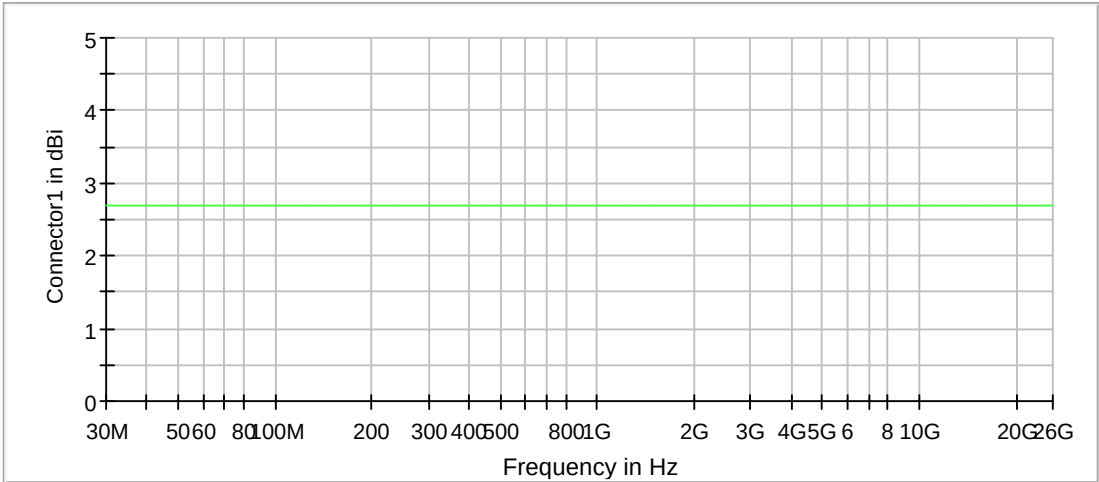
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2395.021008	-3.6	-20.0	-23.6
4807.166065	-57.1	33.5	-23.6
3777.757012	-58.5	34.9	-23.6
3847.716851	-60.2	36.6	-23.6
3817.734063	-60.4	36.9	-23.6
2165.987395	-67.2	43.6	-23.6
2305.399160	-67.5	43.9	-23.6
2225.735294	-67.6	44.0	-23.6
2355.189076	-67.7	44.1	-23.6
2175.945378	-67.7	44.1	-23.6
1877.205882	-67.7	44.2	-23.6
34.978992	-67.7	44.2	-23.6
30.000000	-67.8	44.2	-23.6
1668.088235	-67.8	44.2	-23.6
2096.281513	-67.8	44.2	-23.6

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

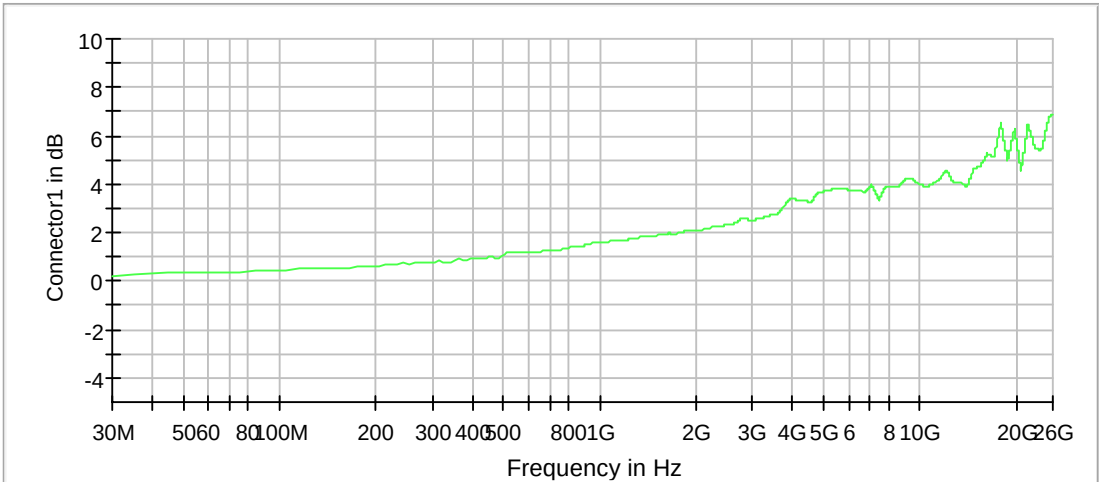


Gain



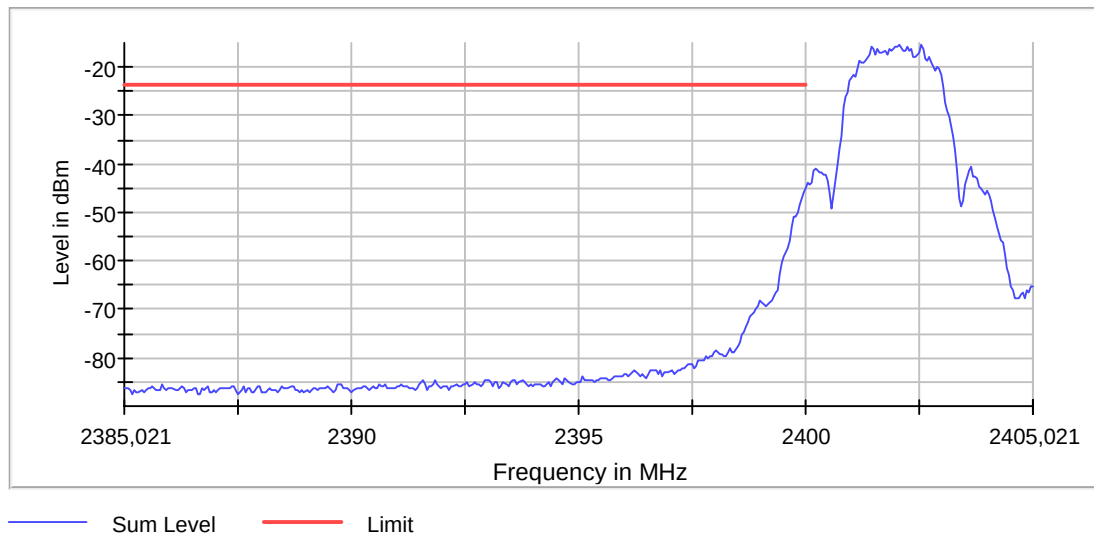
Connector1

Attenuation



Connector1

FinalMeas_2395021008Hz



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	6 / 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 (2440 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2440.000000	PASS

Final measurements

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

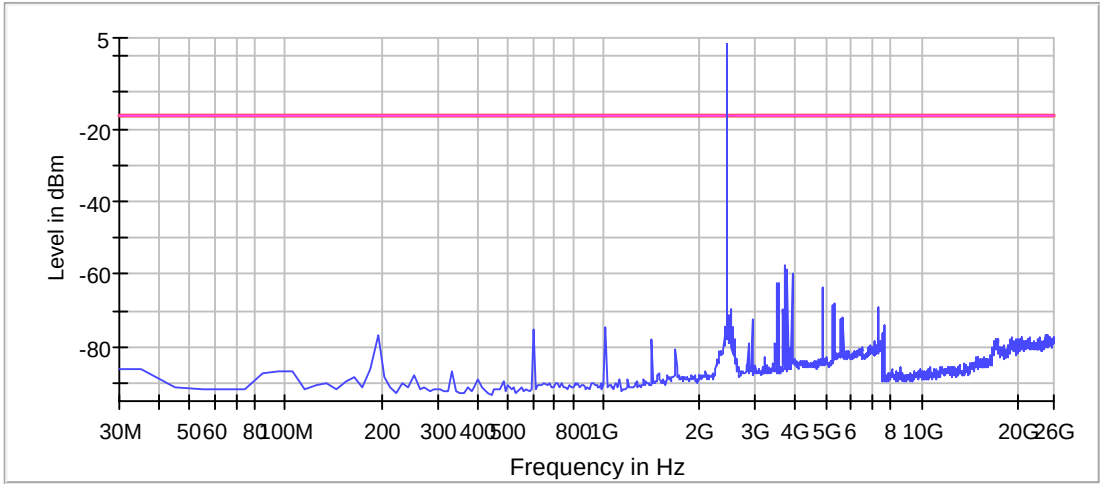
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
3717.791436	-57.8	41.1	-16.6
3787.751275	-58.6	41.9	-16.6
3757.768487	-59.2	42.6	-16.6
3907.682427	-59.6	42.9	-16.6
3547.888972	-62.3	45.7	-16.6
3507.911921	-62.5	45.8	-16.6
4877.125903	-63.6	47.0	-16.6
5316.873459	-67.8	51.2	-16.6
5256.907884	-68.4	51.8	-16.6
7325.720251	-69.2	52.5	-16.6
7315.725988	-69.2	52.6	-16.6
2518.479919	-69.6	52.9	-16.6
3677.814386	-69.8	53.2	-16.6
5676.666915	-72.0	55.4	-16.6
5576.724288	-72.3	55.6	-16.6

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

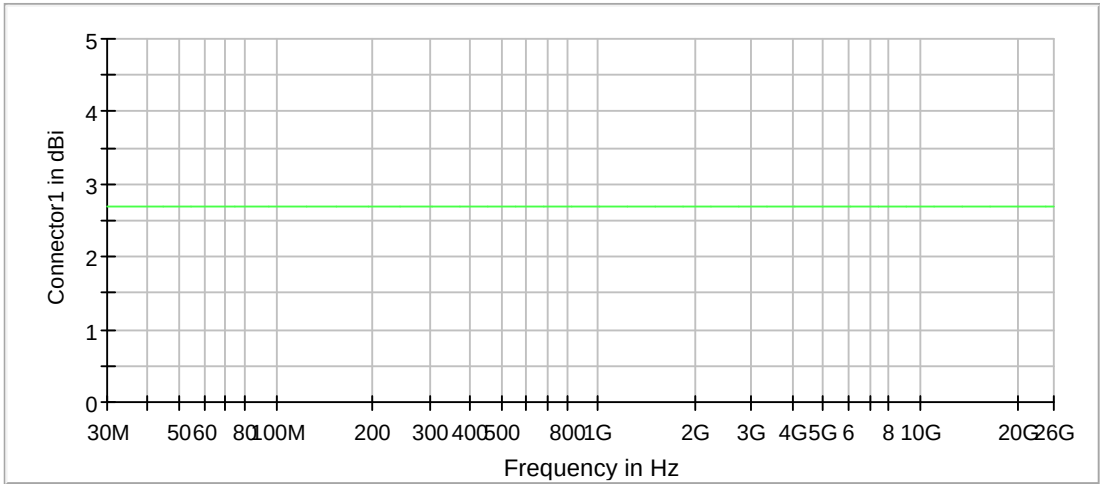


Spurious



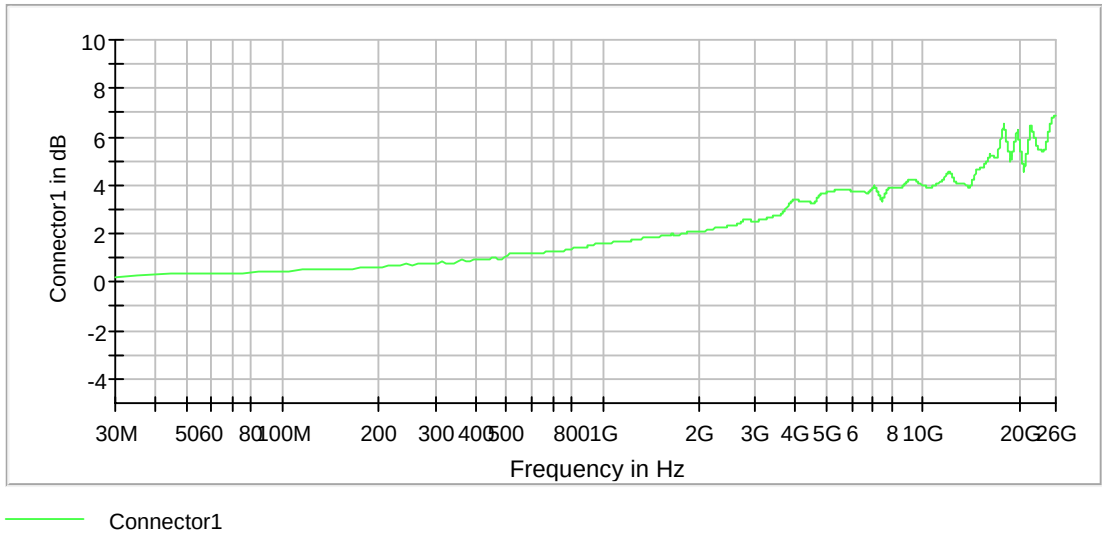
Limit Sum Level Threshold Critical Final Critical

Gain



Connector1

Attenuation



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	12 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.08 dB	0.50 dB

Tx Spurious Emission (2480 MHz; 2Mbps (0 dBm); 2 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

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

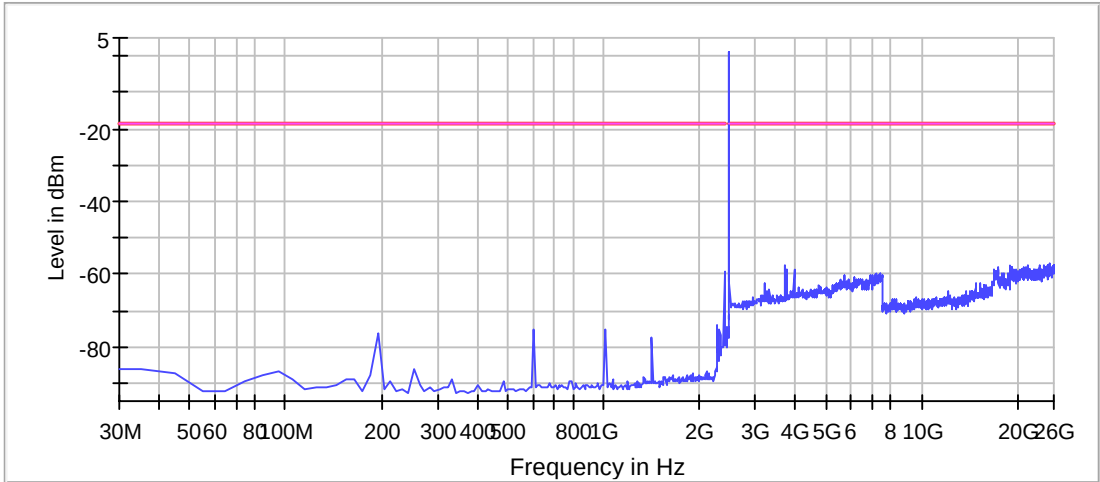
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
25325.387272	-56.9	38.2	-18.8
25925.043030	-57.4	38.6	-18.8
25205.456120	-57.5	38.7	-18.8
23636.356885	-57.6	38.8	-18.8
25815.106141	-57.6	38.8	-18.8
24855.656927	-57.6	38.8	-18.8
21647.498619	-57.7	38.9	-18.8
25895.060242	-57.7	38.9	-18.8
25945.031555	-57.7	38.9	-18.8
25845.088929	-57.7	39.0	-18.8
25915.048768	-57.7	39.0	-18.8
3707.797174	-57.8	39.0	-18.8
25375.358585	-57.9	39.1	-18.8
25955.025818	-57.9	39.1	-18.8
25885.065980	-57.9	39.1	-18.8

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

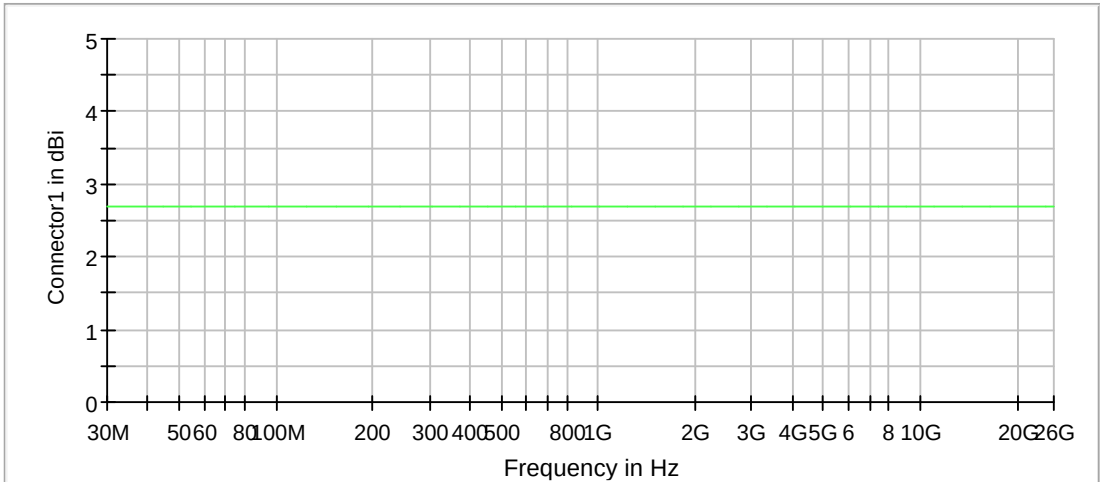


Spurious

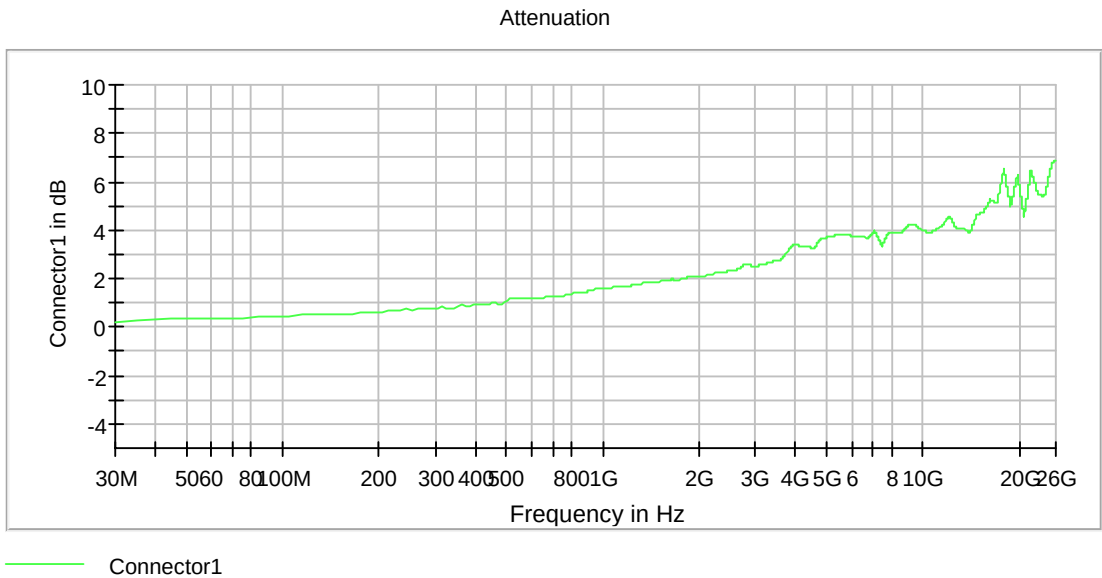


Limit Sum Level Threshold Critical Final Critical

Gain



Connector1



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	12 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

End Of Annex 1