

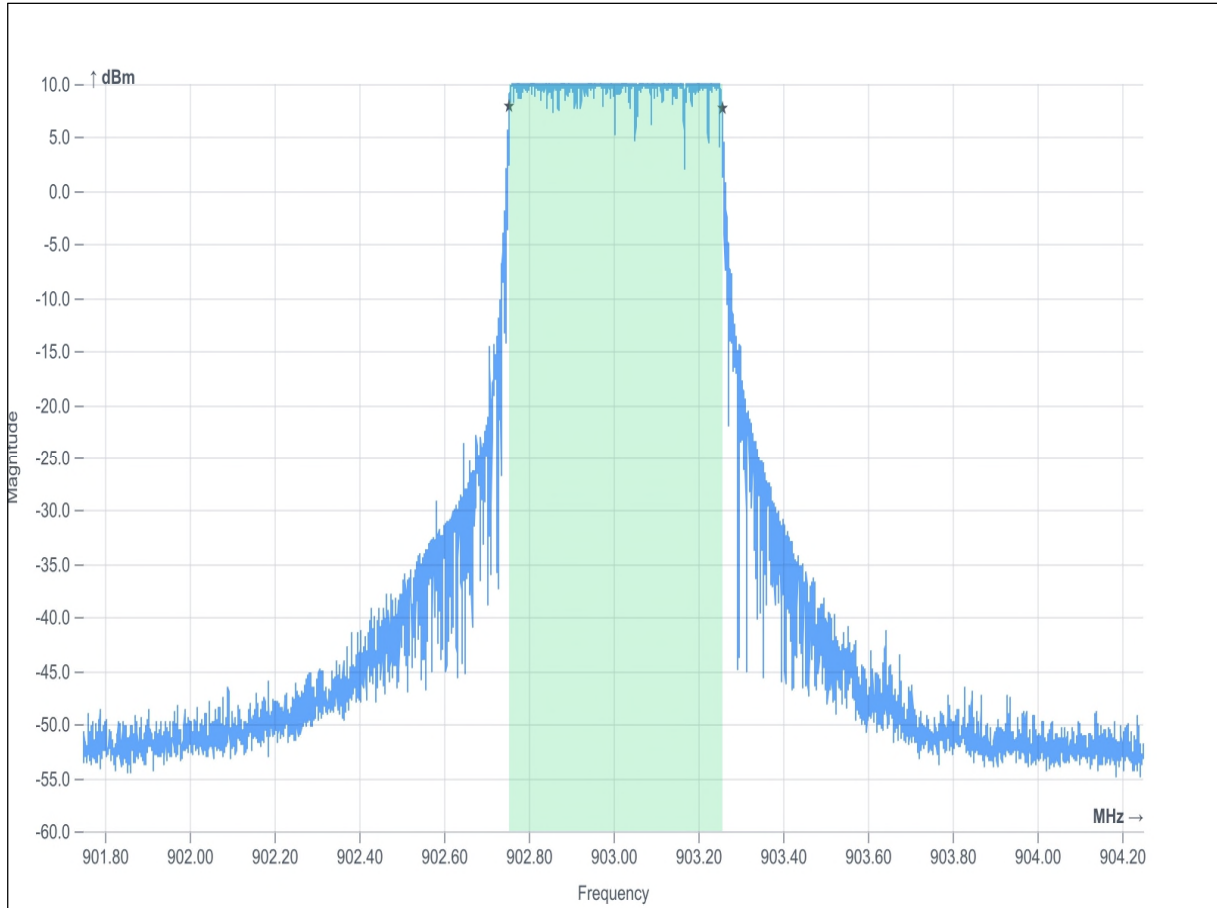
Annex 1: Measurement diagrams 22-1-0126501T009a-A1

Number of pages:	75	Date of Report:	2023-Dec-20
Testing company:	cetecom advanced GmbH Untertuerkheimer Str. 6-10 66117 Saarbruecken GERMANY	Applicant:	Dryad Networks GmbH
Product:	Wildfire Sensor		
Model:	WILDFIR-14		
FCC ID:	2BAH4WILDFIR-14	IC:	30127-WILDFIR14
Testing has been carried out in accordance with:	Title 47 CFR, Chapter I FCC Regulations, Subchapter A Subpart C: § 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 3 Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Device Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		

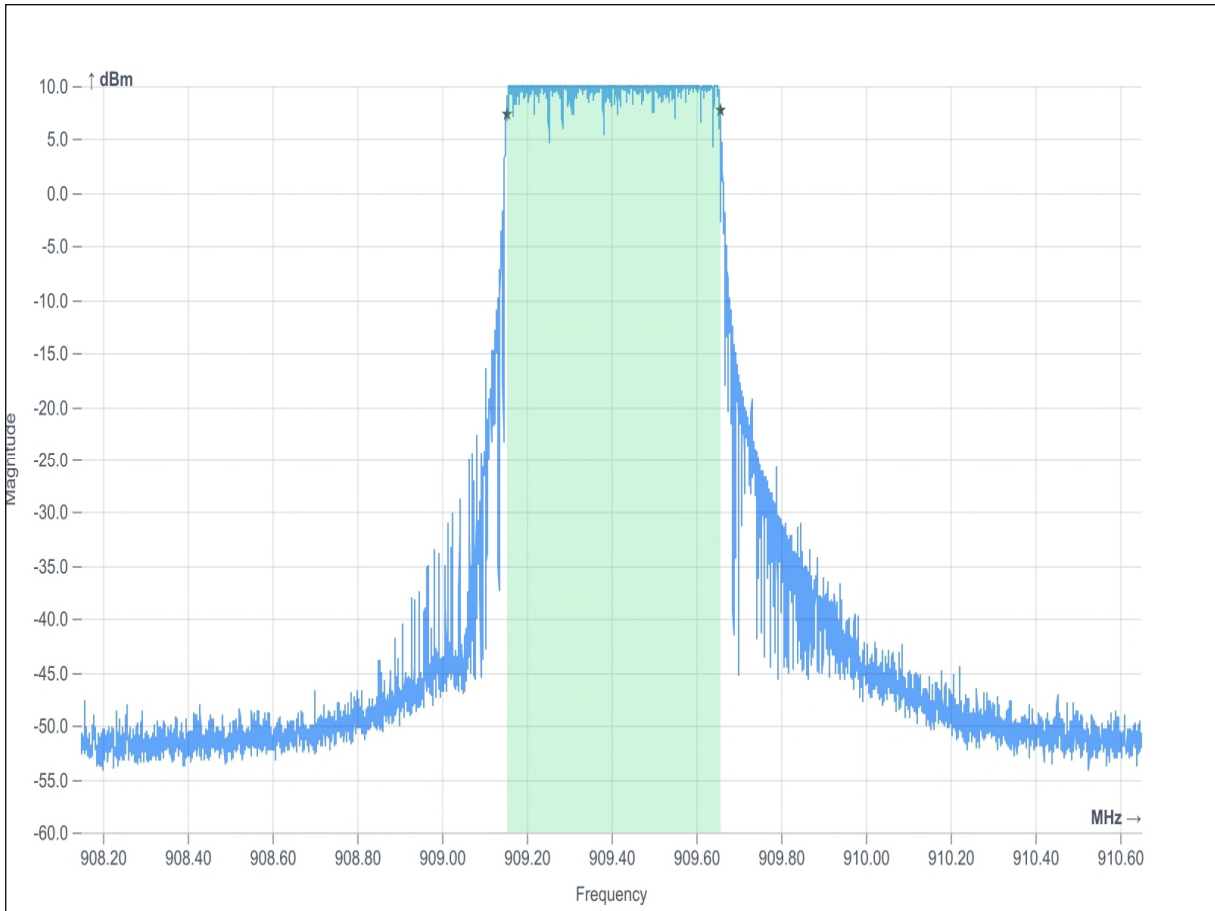
Measurement diagrams

Occupied Channel Bandwidth 99%

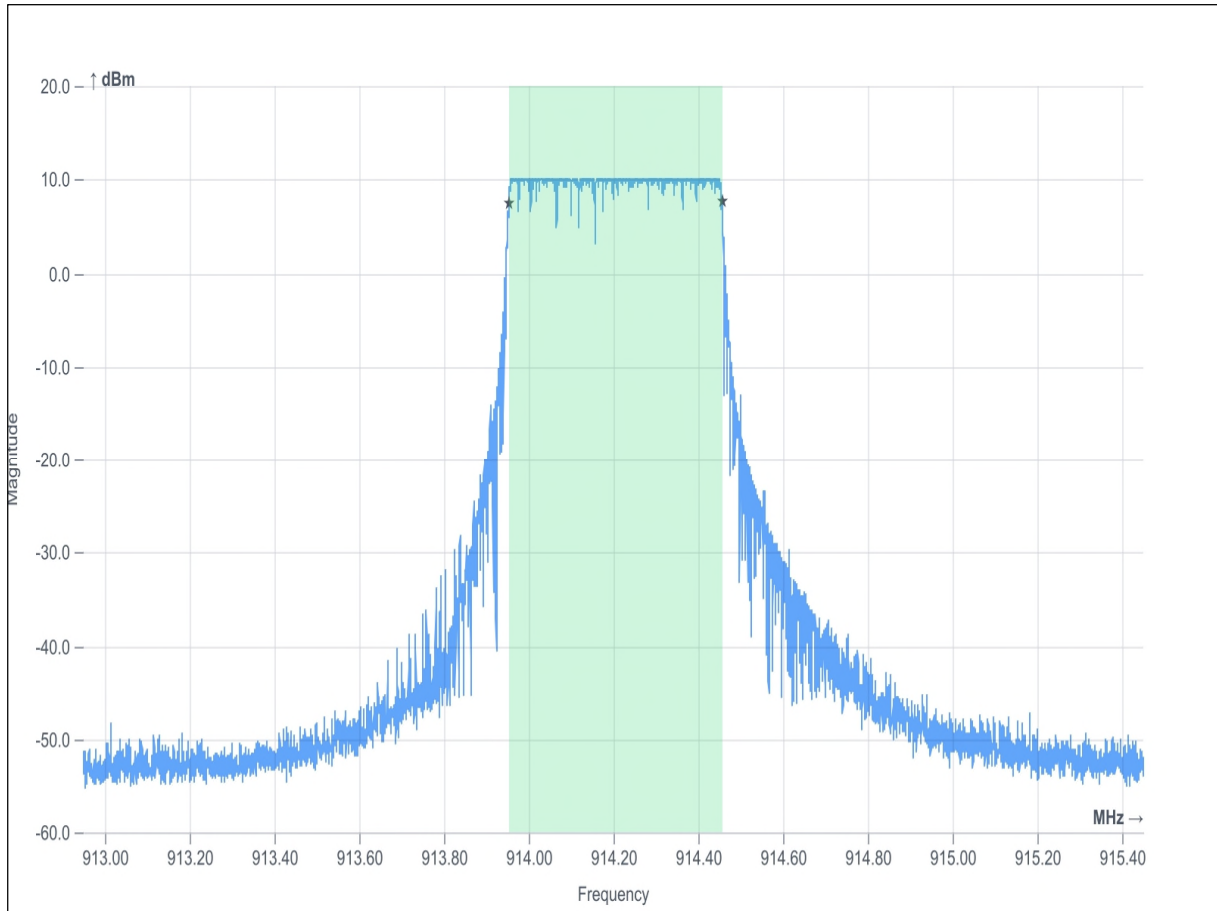
D01_001_DTS_99OBW_ChLow_OP1



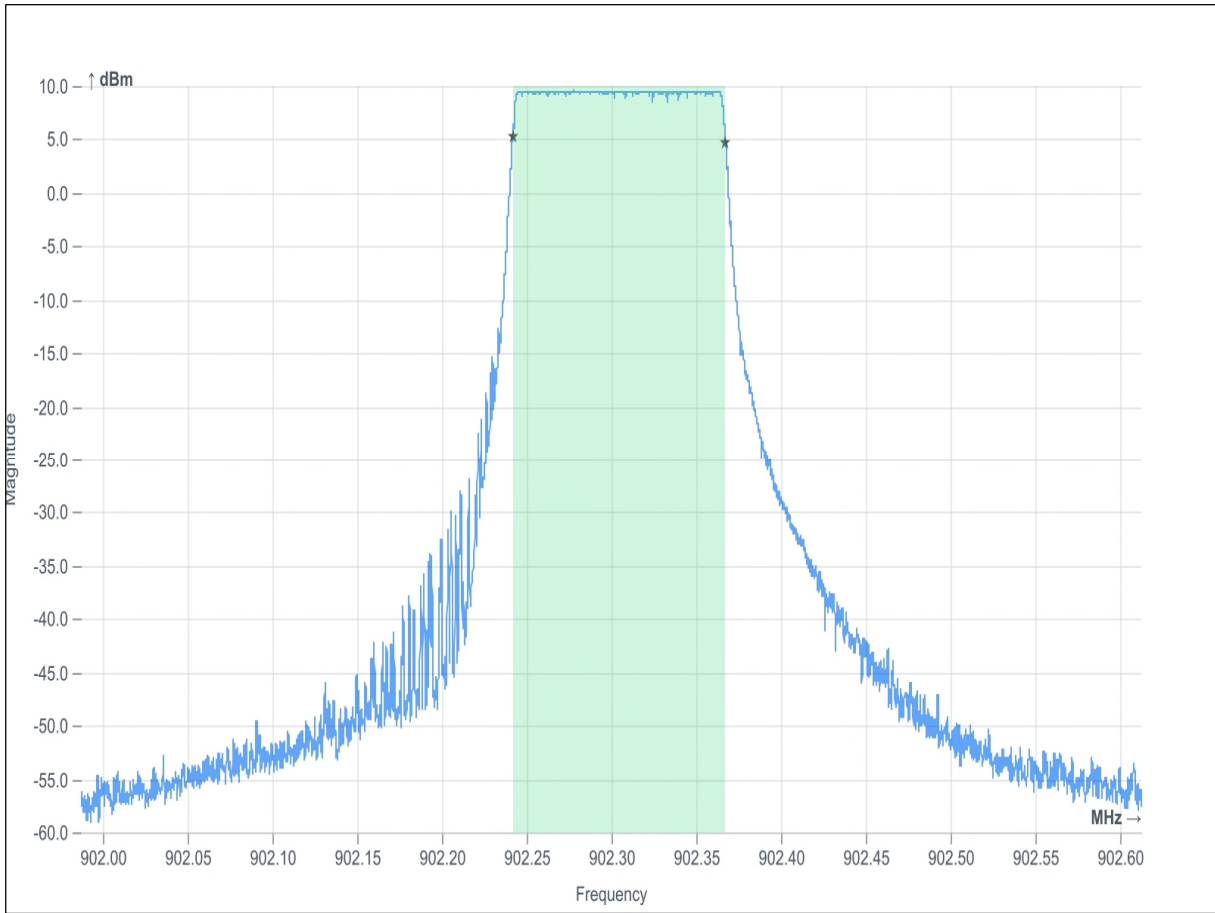
D01_002_DTS_99OBW_ChMid_OP1



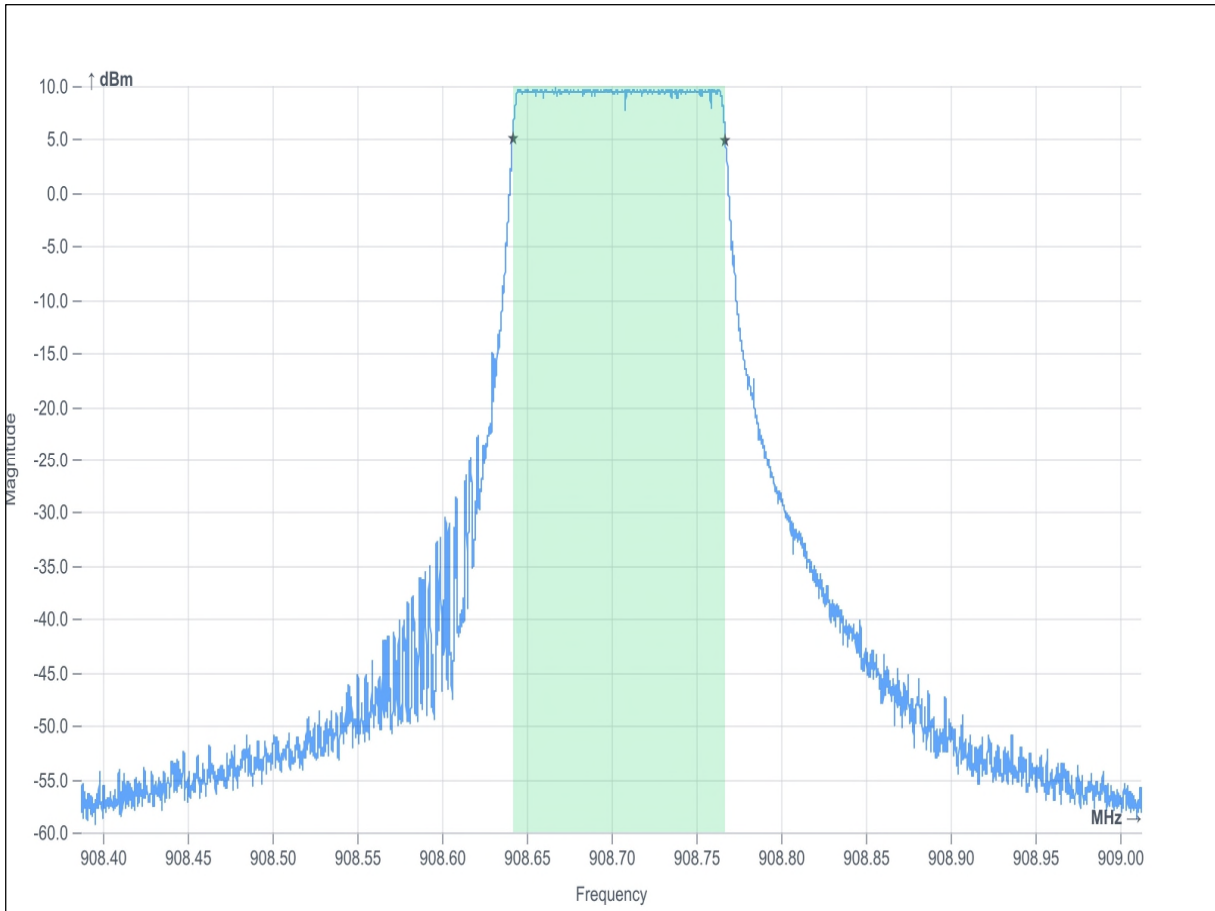
D01_003_DTS_99OBW_ChHigh_OP1



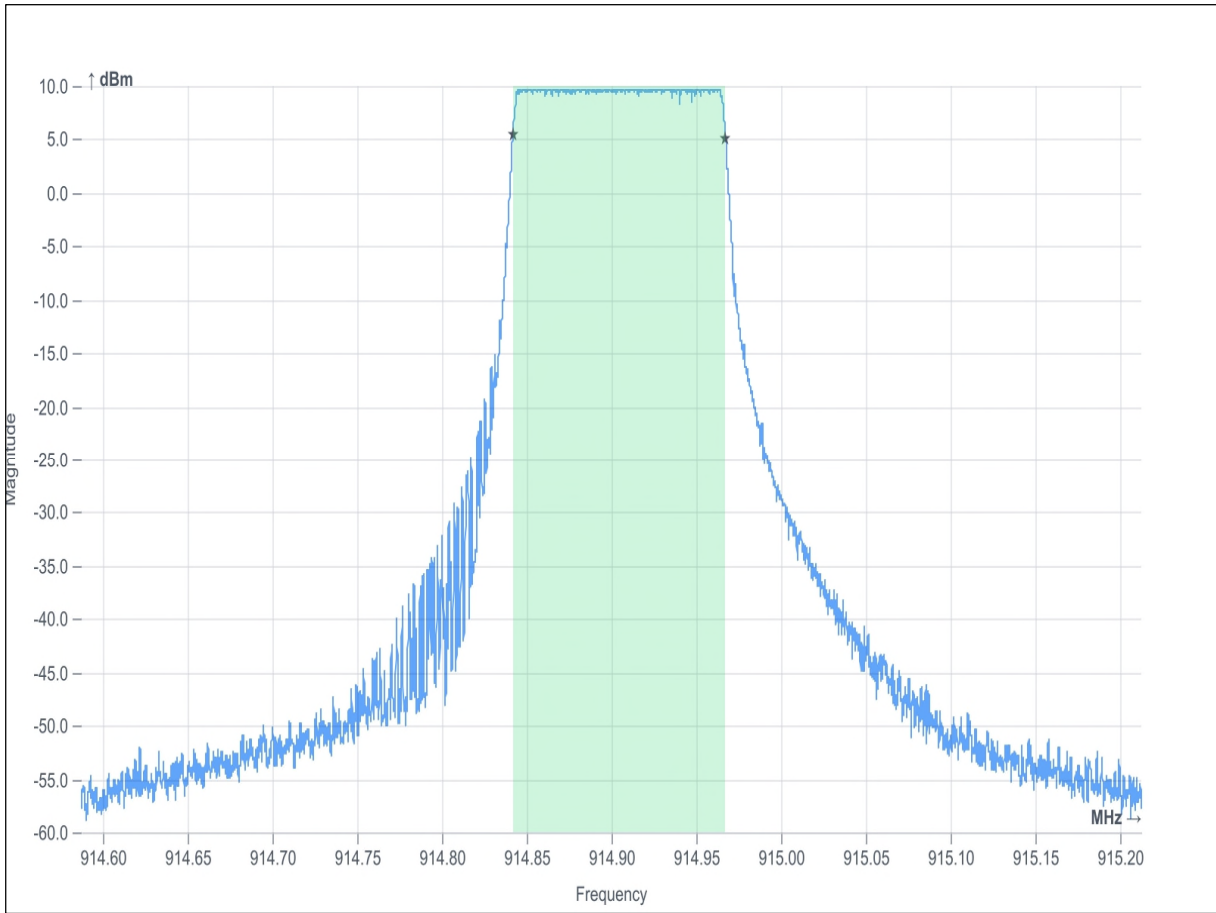
D05_001_FHSS_99OBW_ChLow_OP2



D05_002_FHSS_99OBW_ChMid_OP2

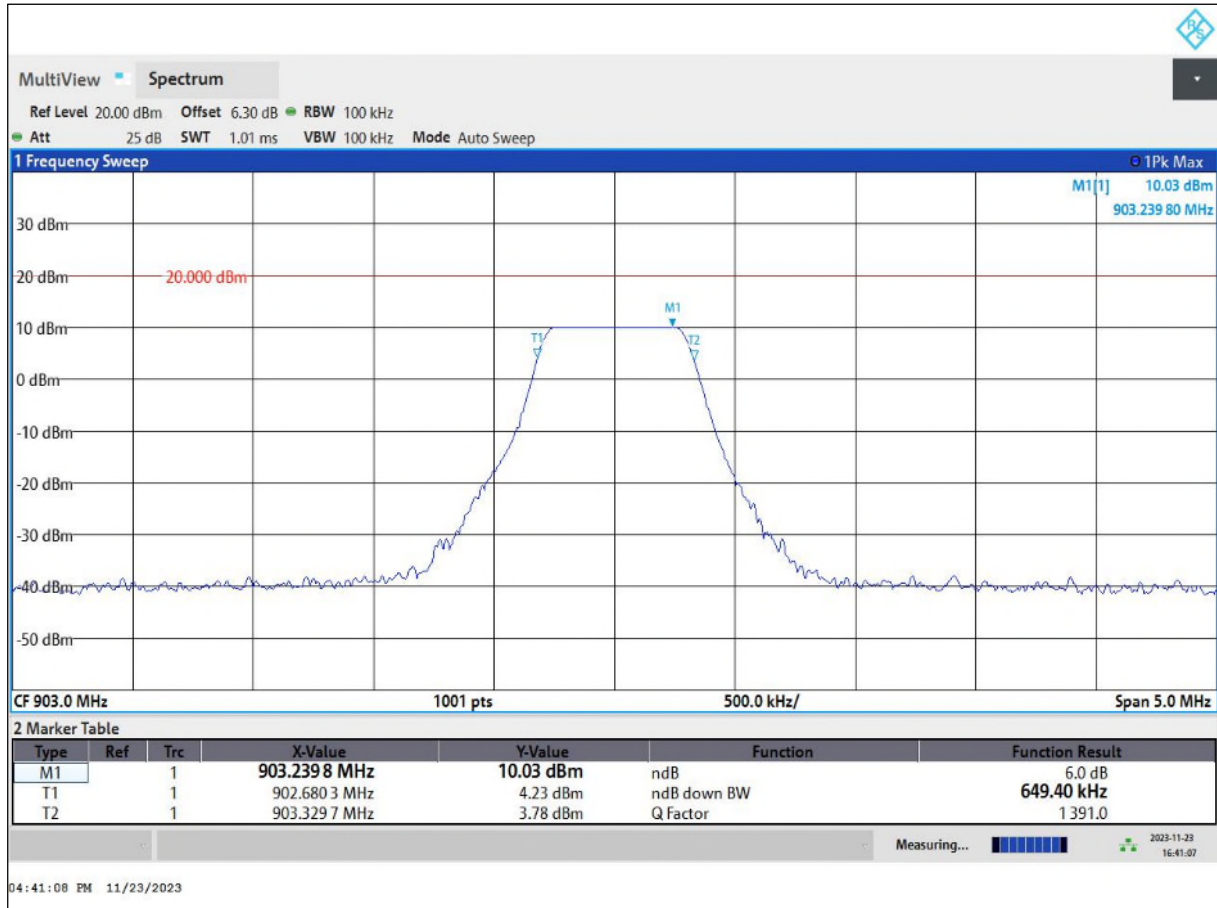


D05_003_FHSS_99OBW_ChHigh_OP2

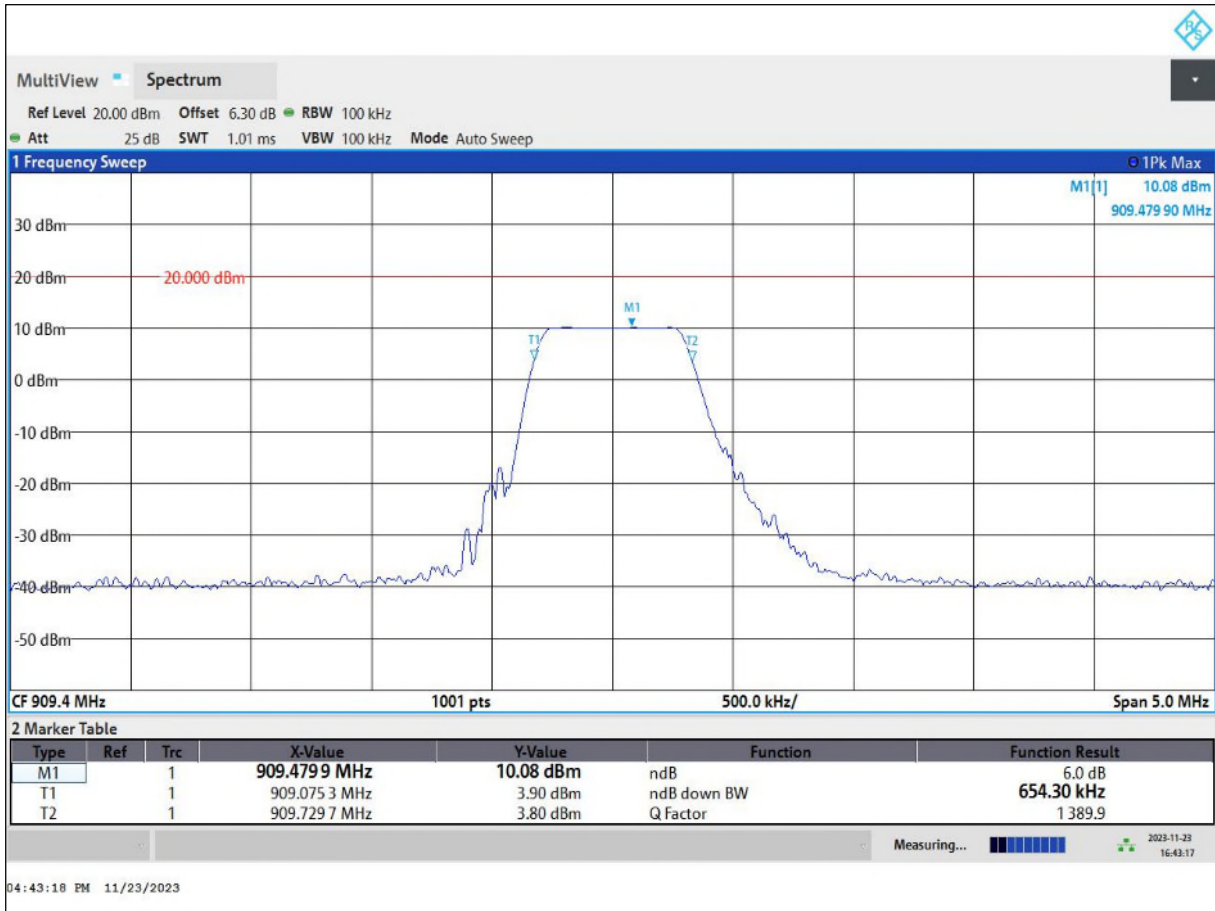


Minimum Emission Bandwidth 6 dB / 20 dB

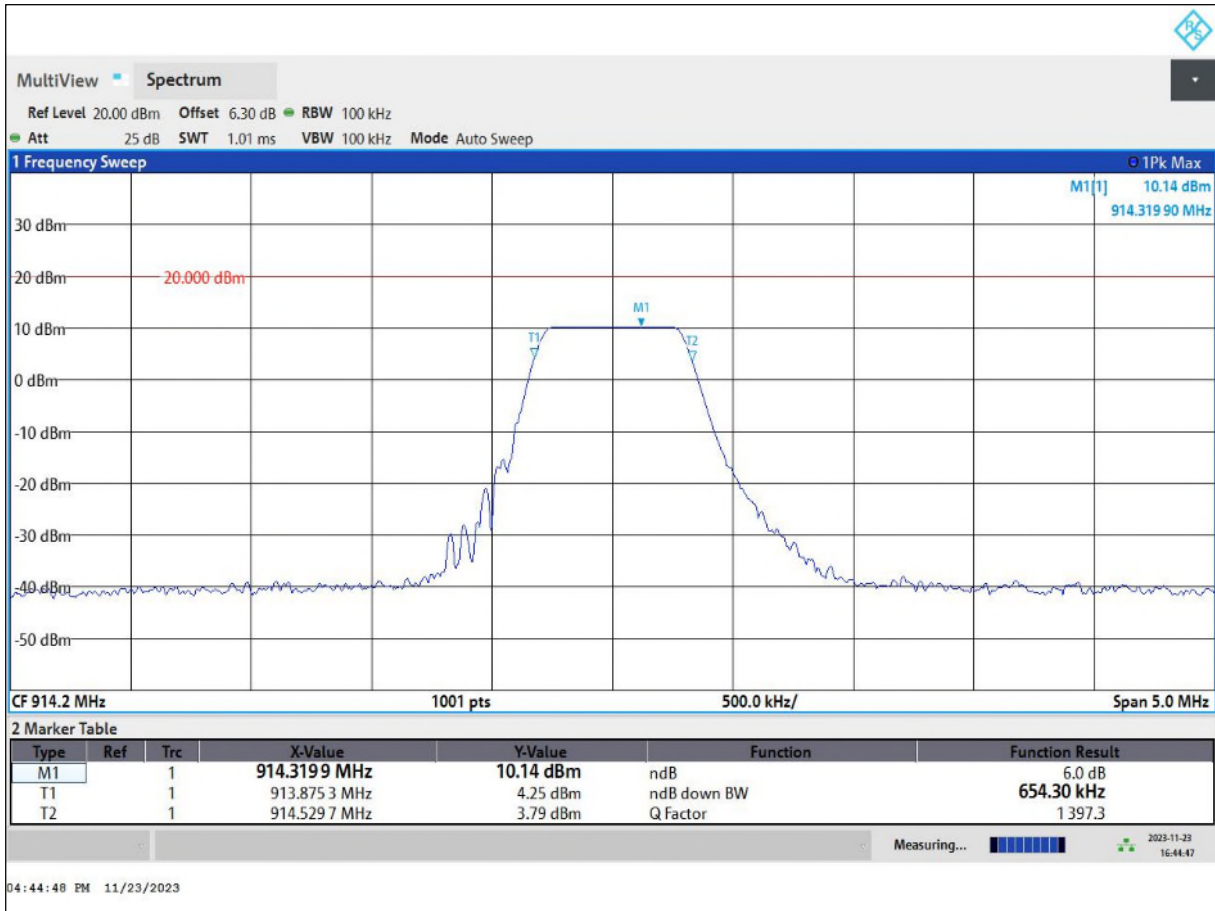
D01_004_DTS_6dB-BW_ChLow_OP1



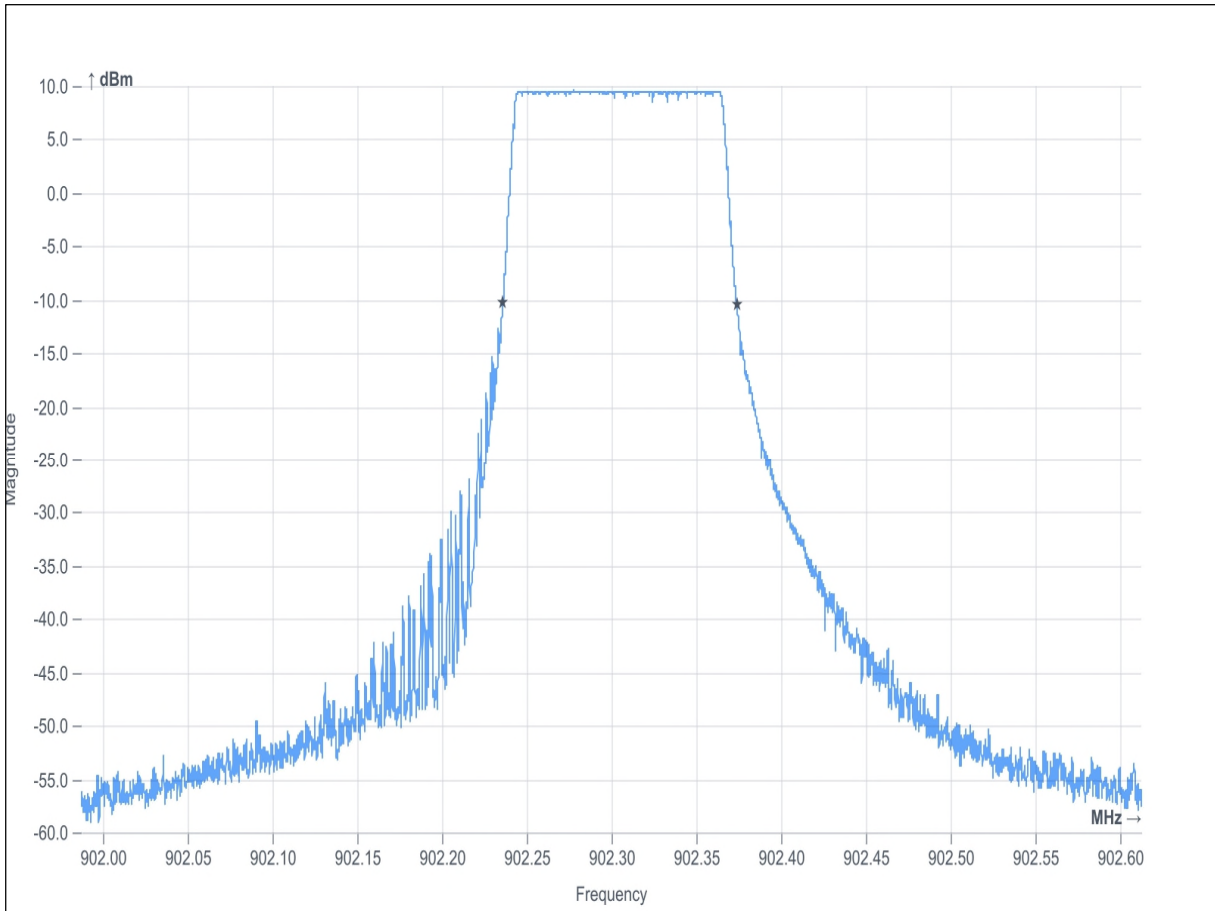
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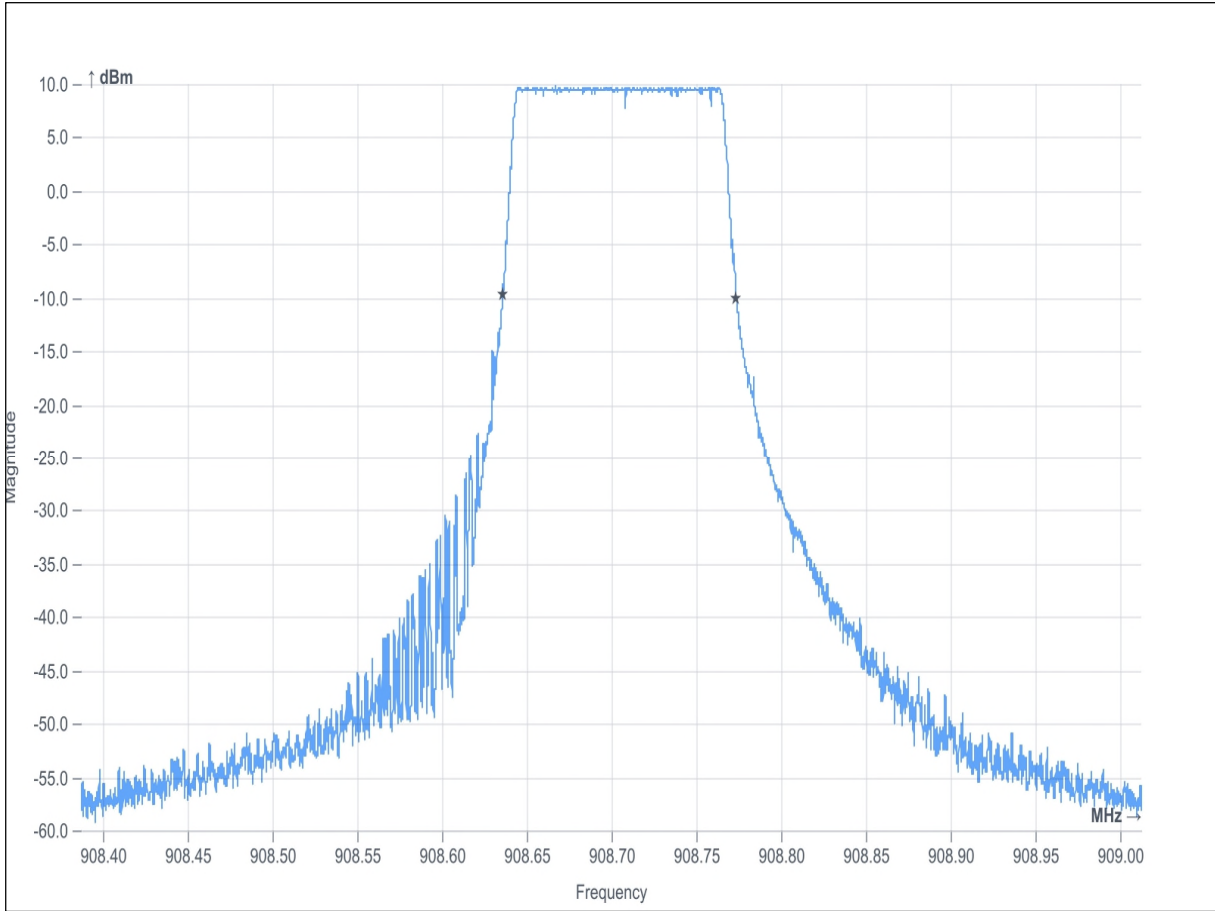
D01_006_DTS_6dB-BW_ChHigh_OP1



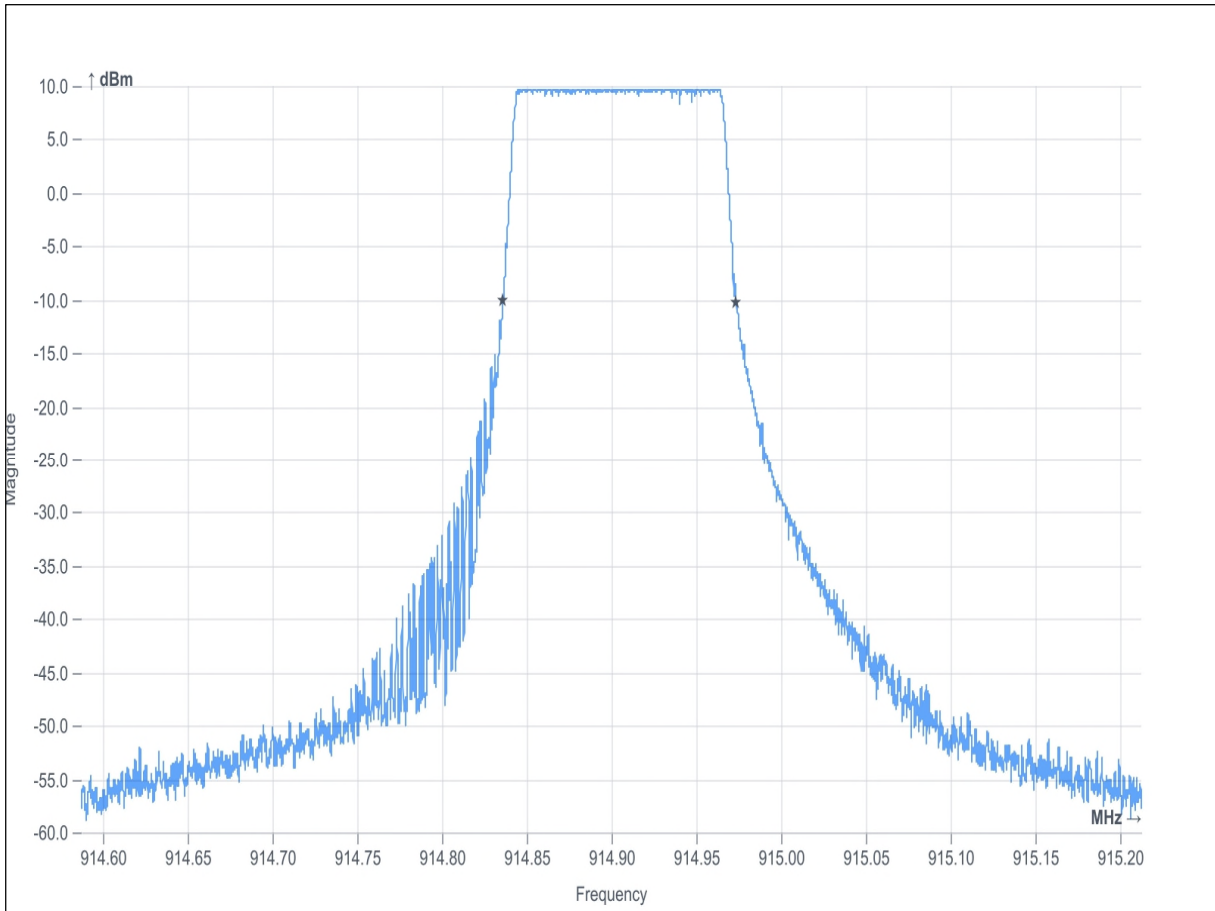
D05_004_FHSS_20dB-BW_ChLow_OP2



D05_005_FHSS_20dB-BW_ChMid_OP2

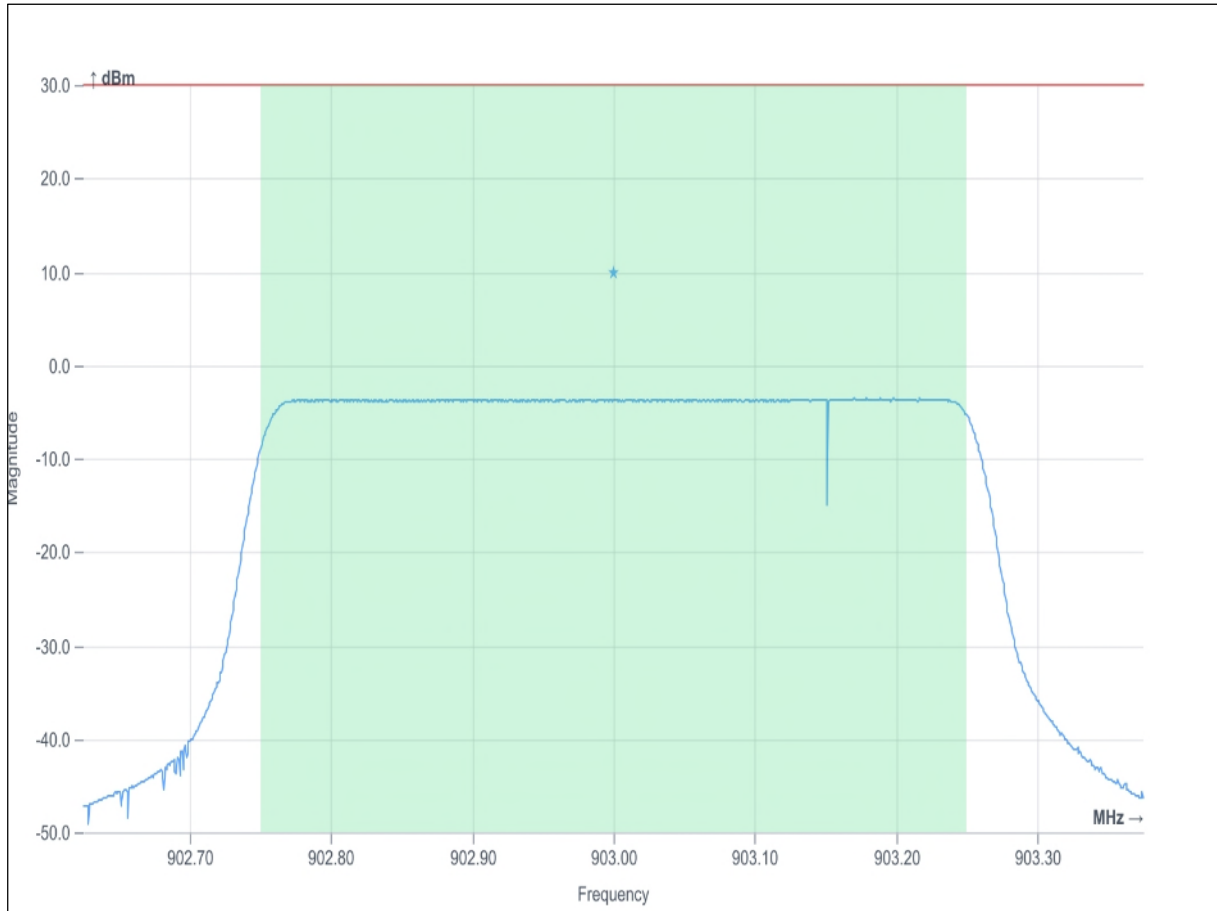


D05_006_FHSS_20dB-BW_ChHigh_OP2

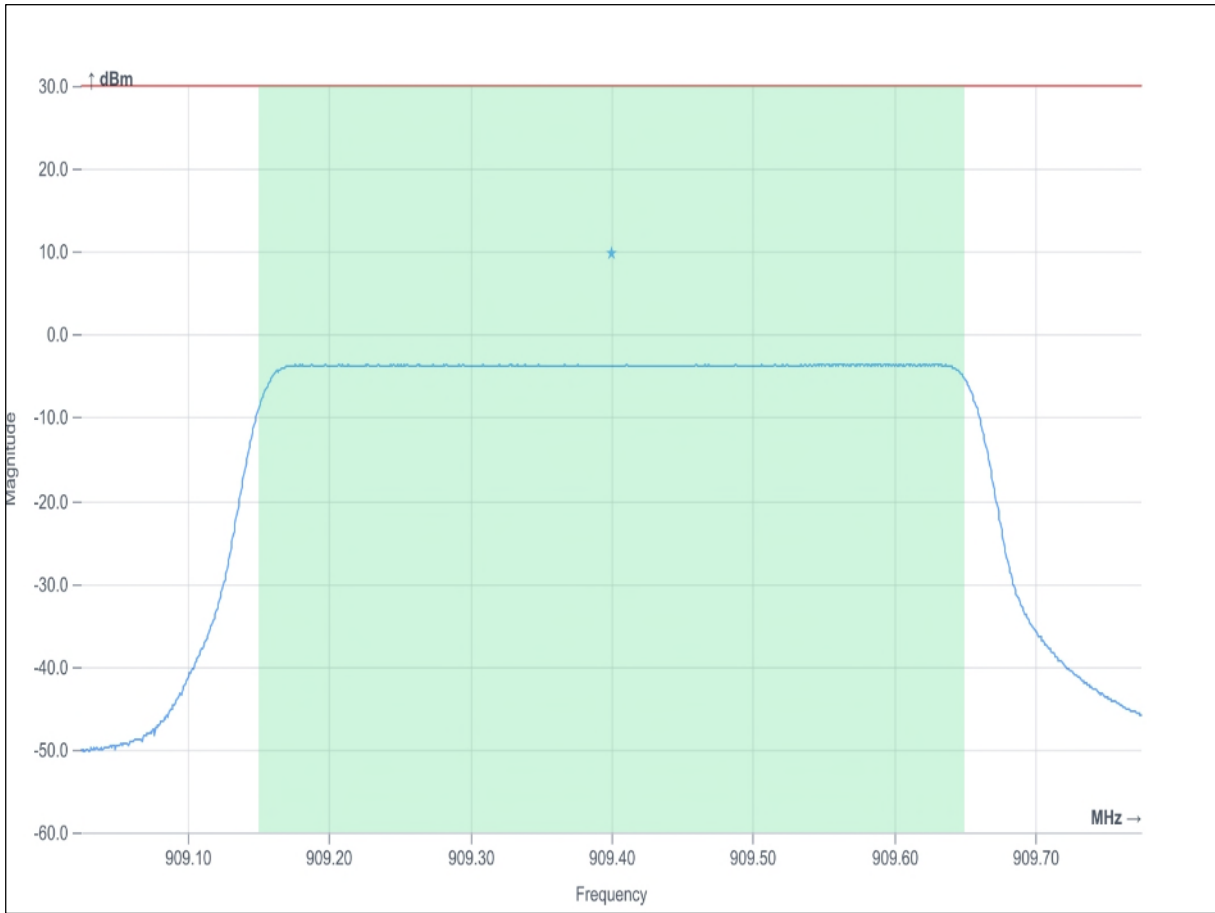


Peak output power (Sweep)

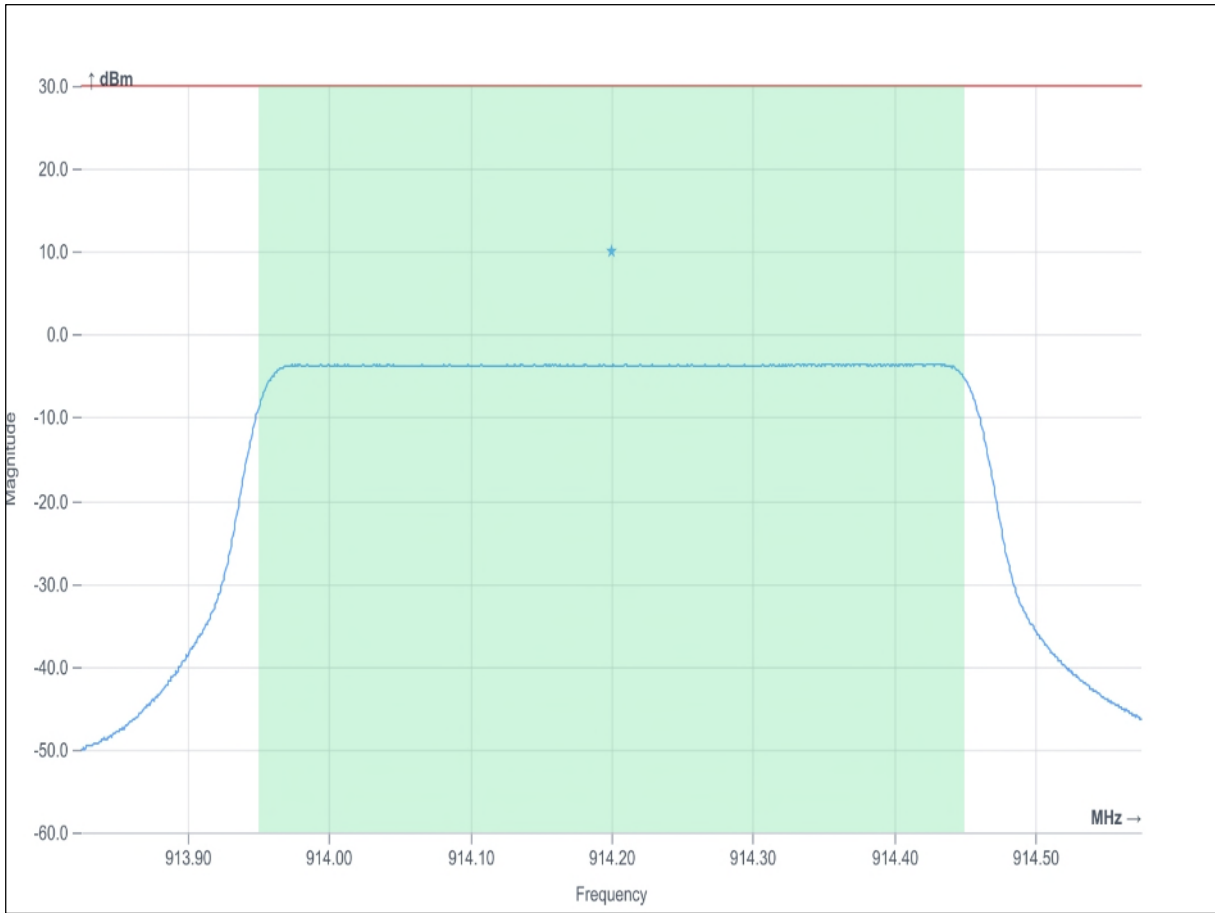
D02_001_DTS_PWR_ChLow_OP1



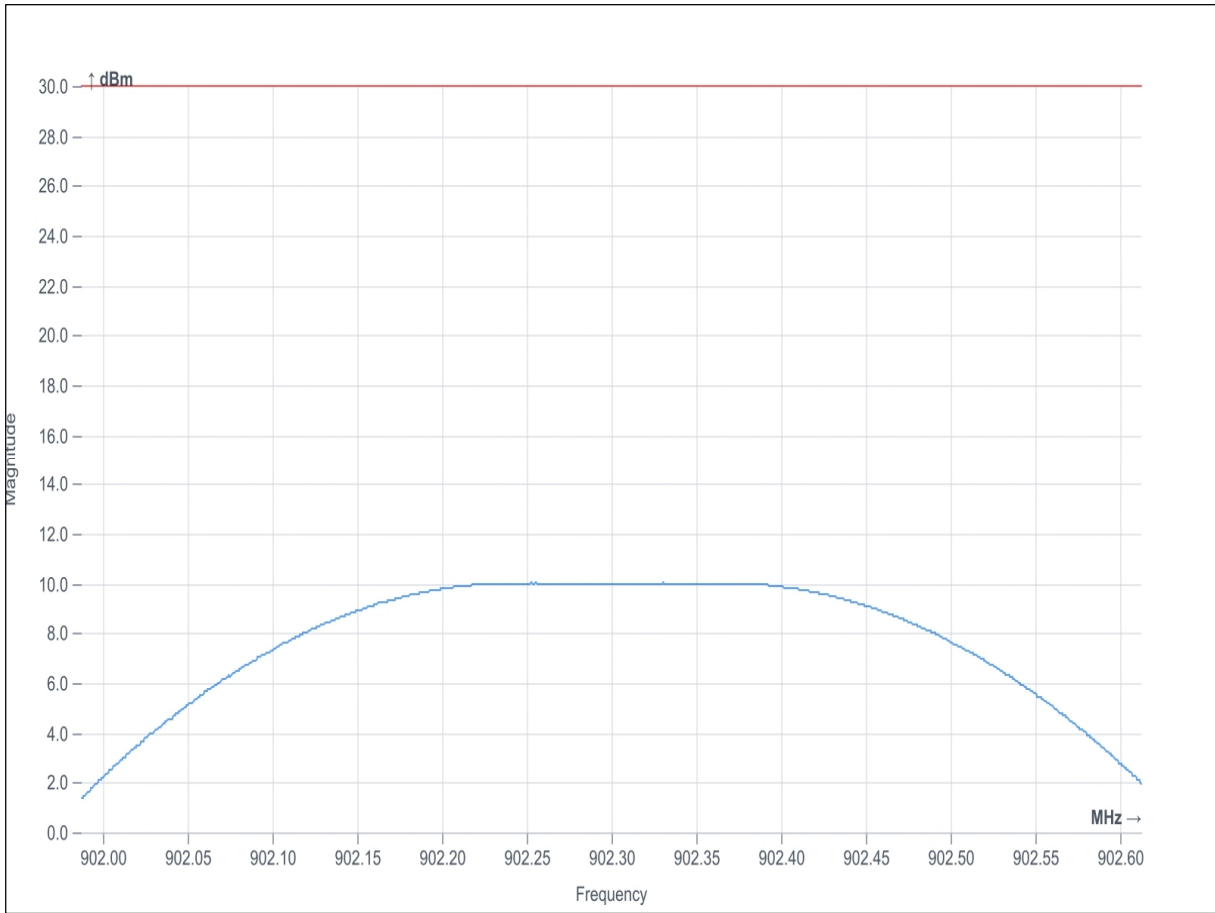
D02_002_DTS_PWR_ChMid_OP1



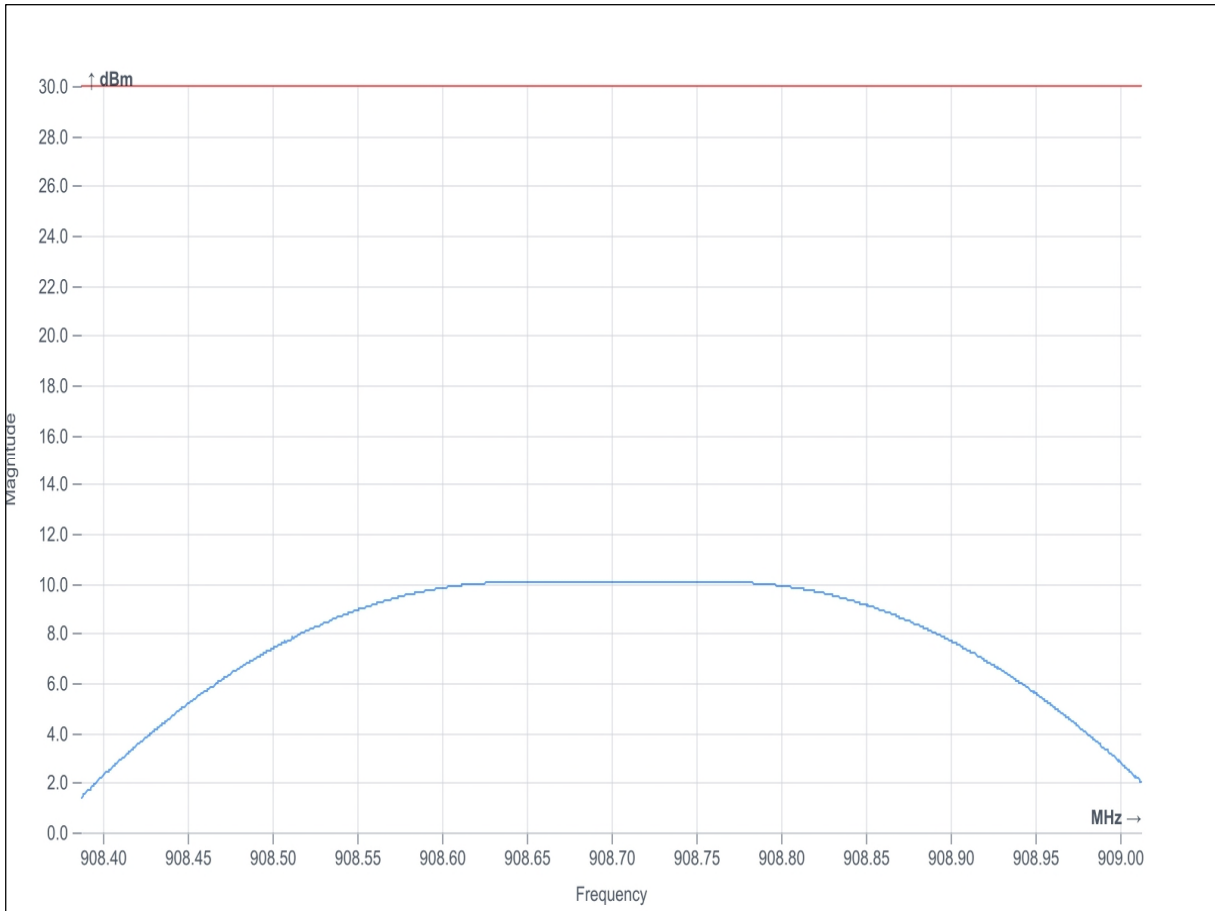
D02_003_DTS_PWR_ChHigh_OP1



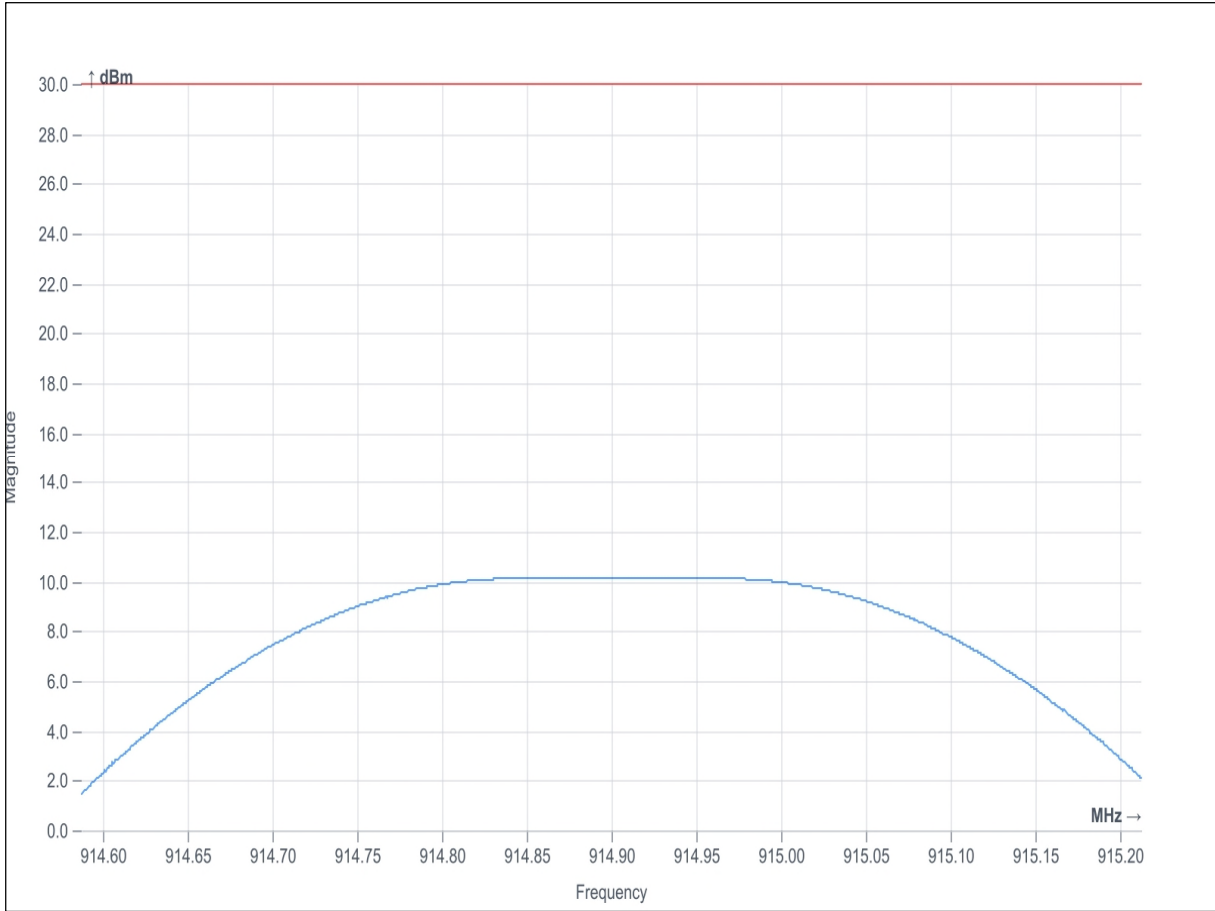
D09_001_FHSS_PWR_ChLow_OP2



D09_002_FHSS_PWR_ChMid_OP2

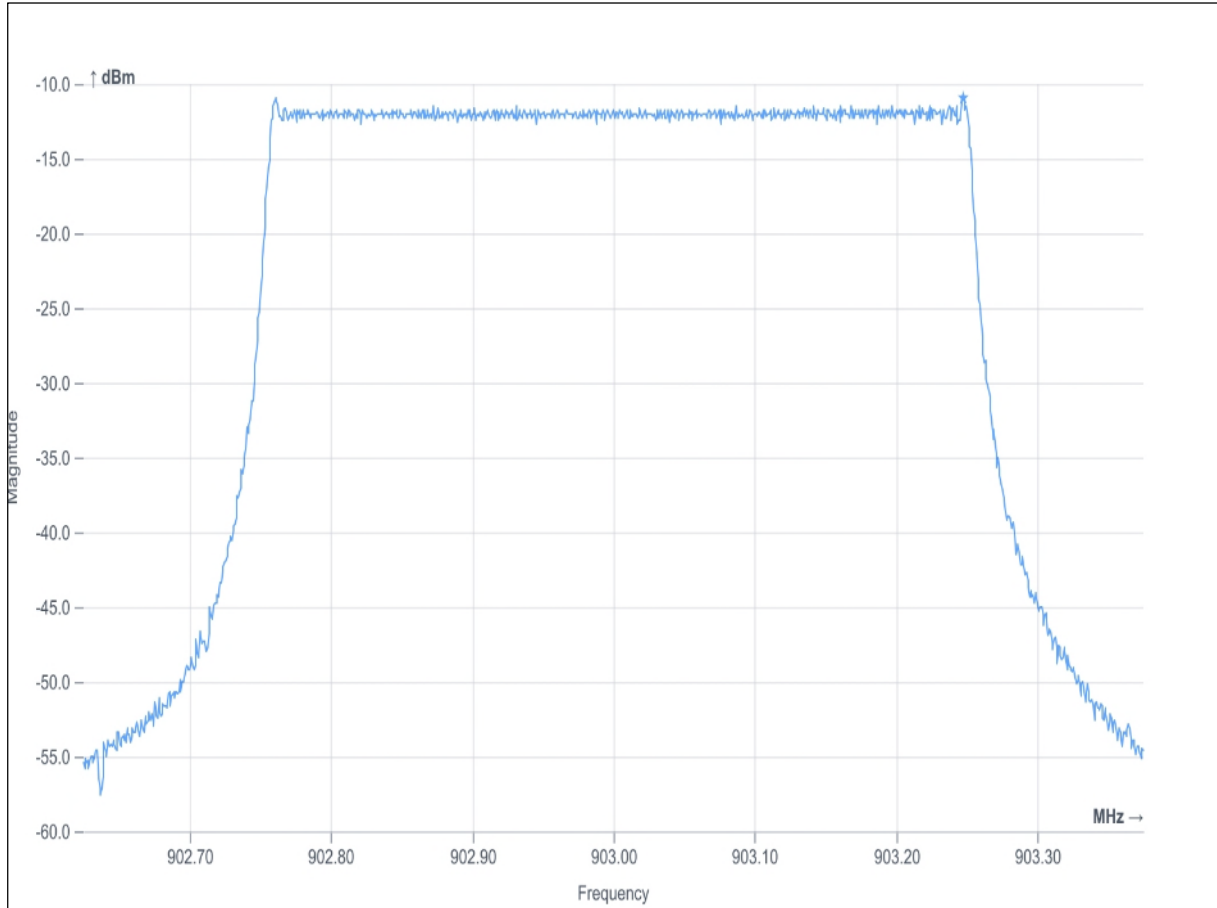


D09_003_FHSS_PWR_ChHigh_OP2

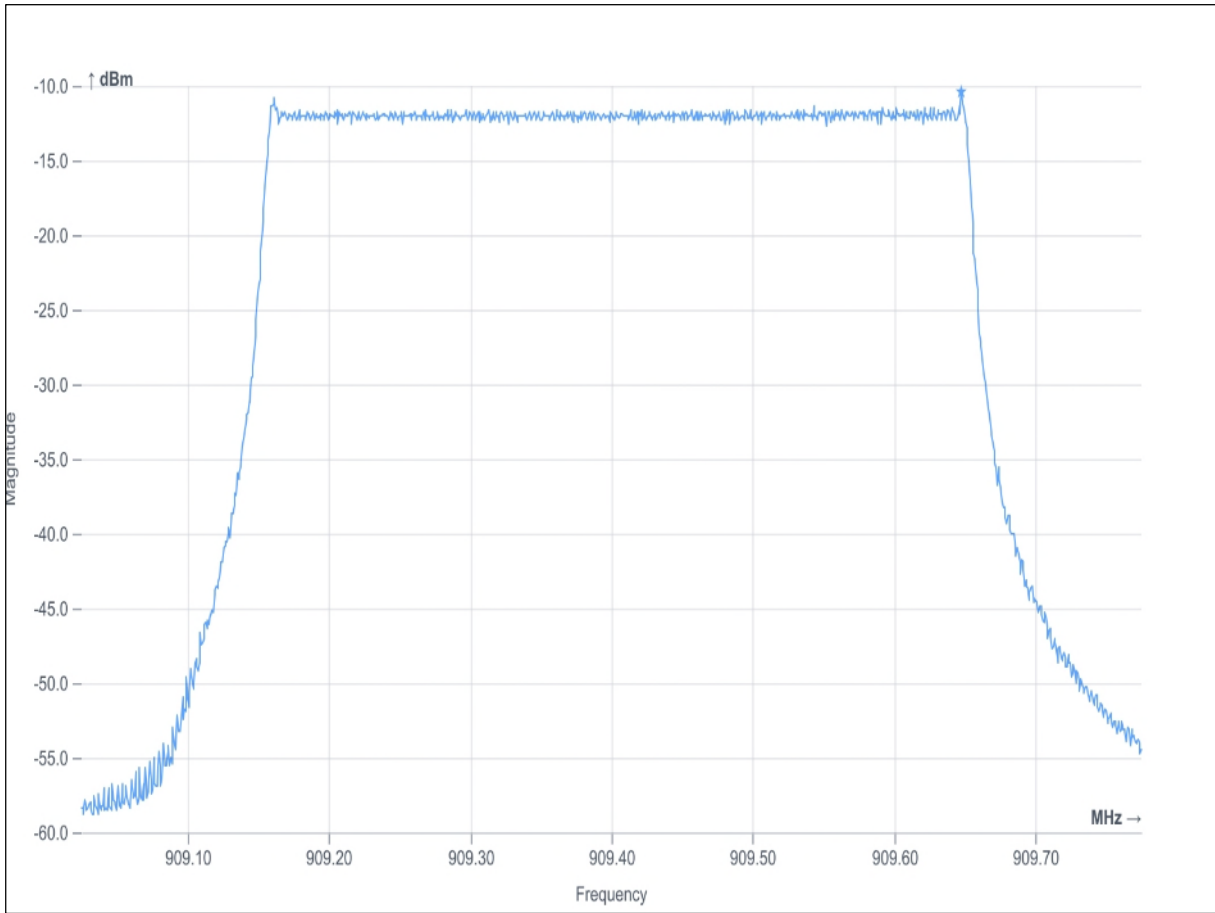


Power spectral density

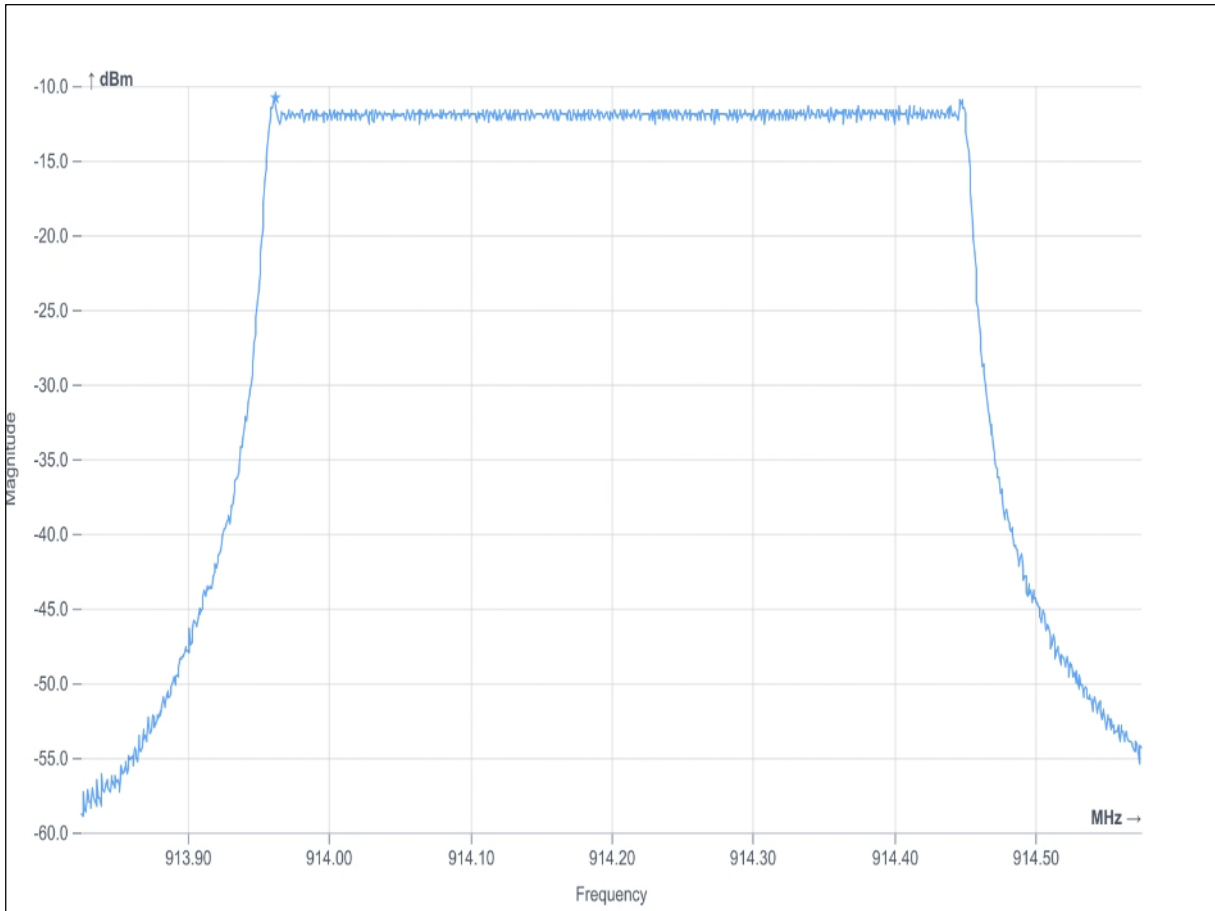
D03_001_DTS_PSD_ChLow_OP1



D03_002_DTS_PSD_ChMid_OP1

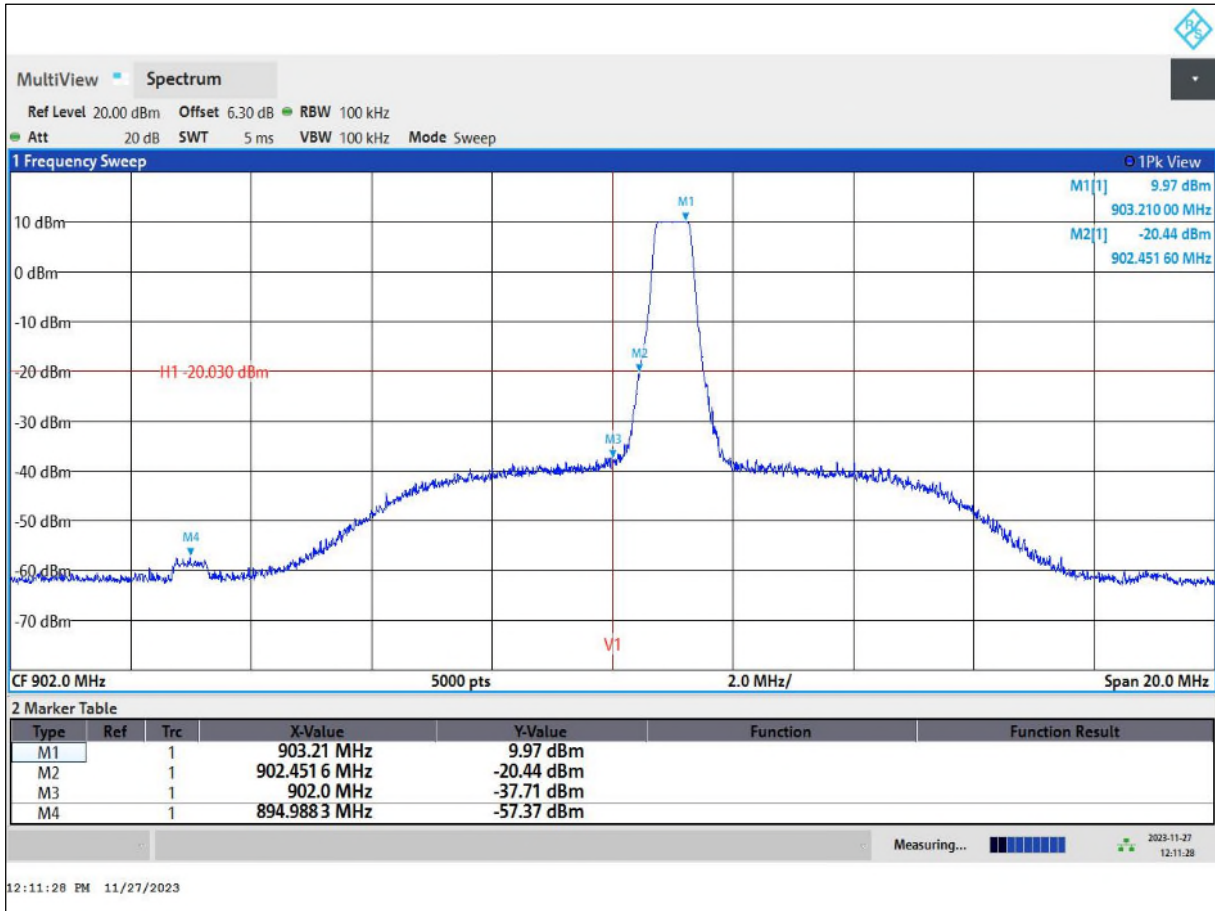


D03_003_DTS_PSD_Fhigh_OP1

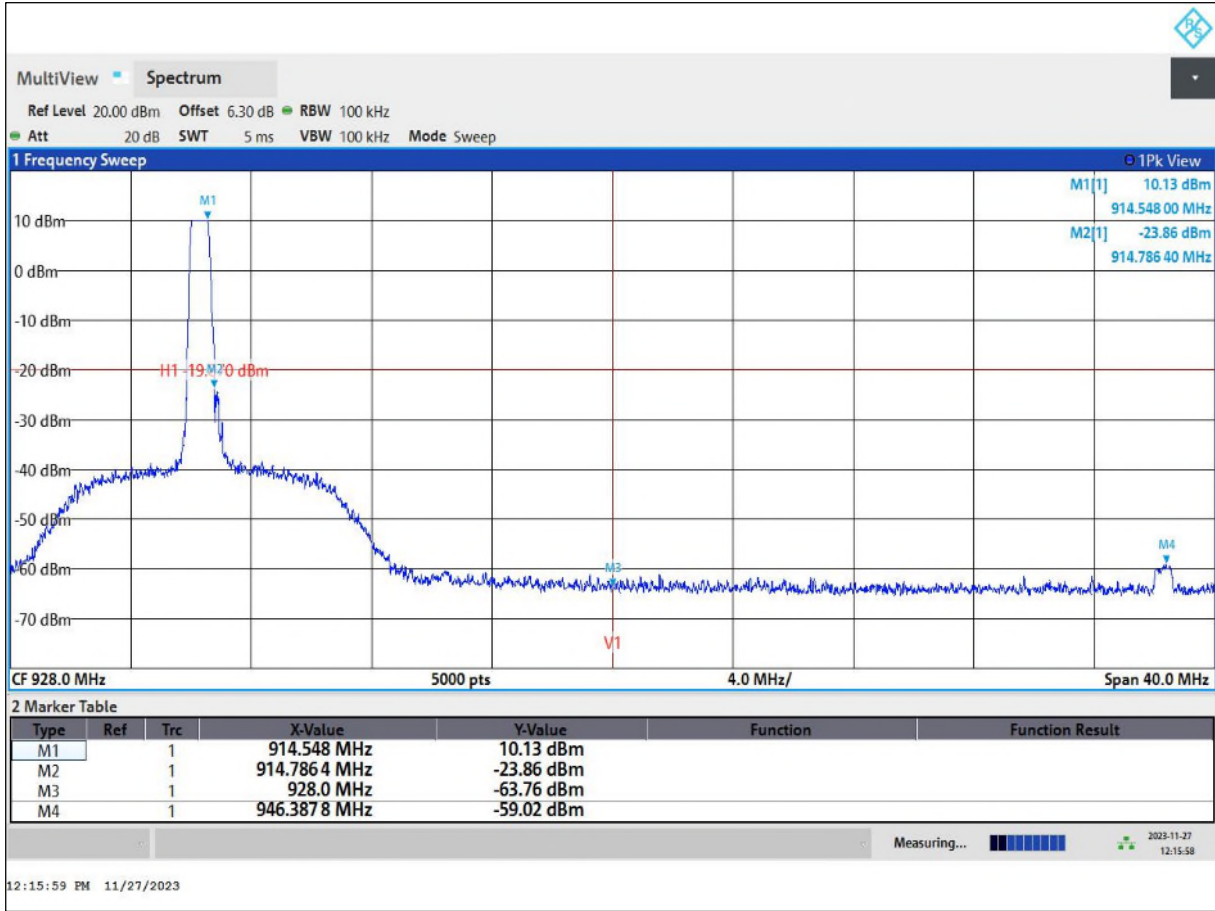


Conducted Band-Edge emissions

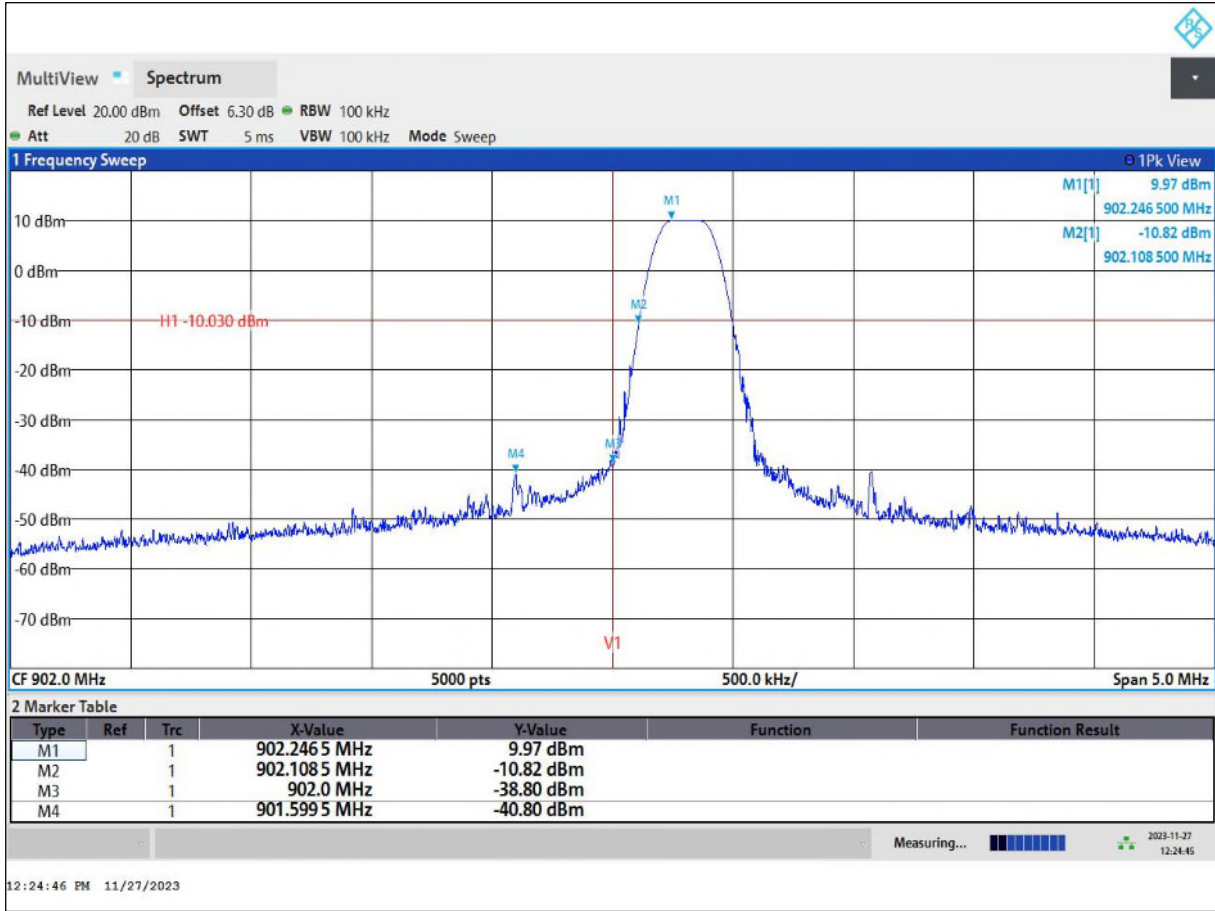
D04_000_DTS_BE_ChLow_OP1



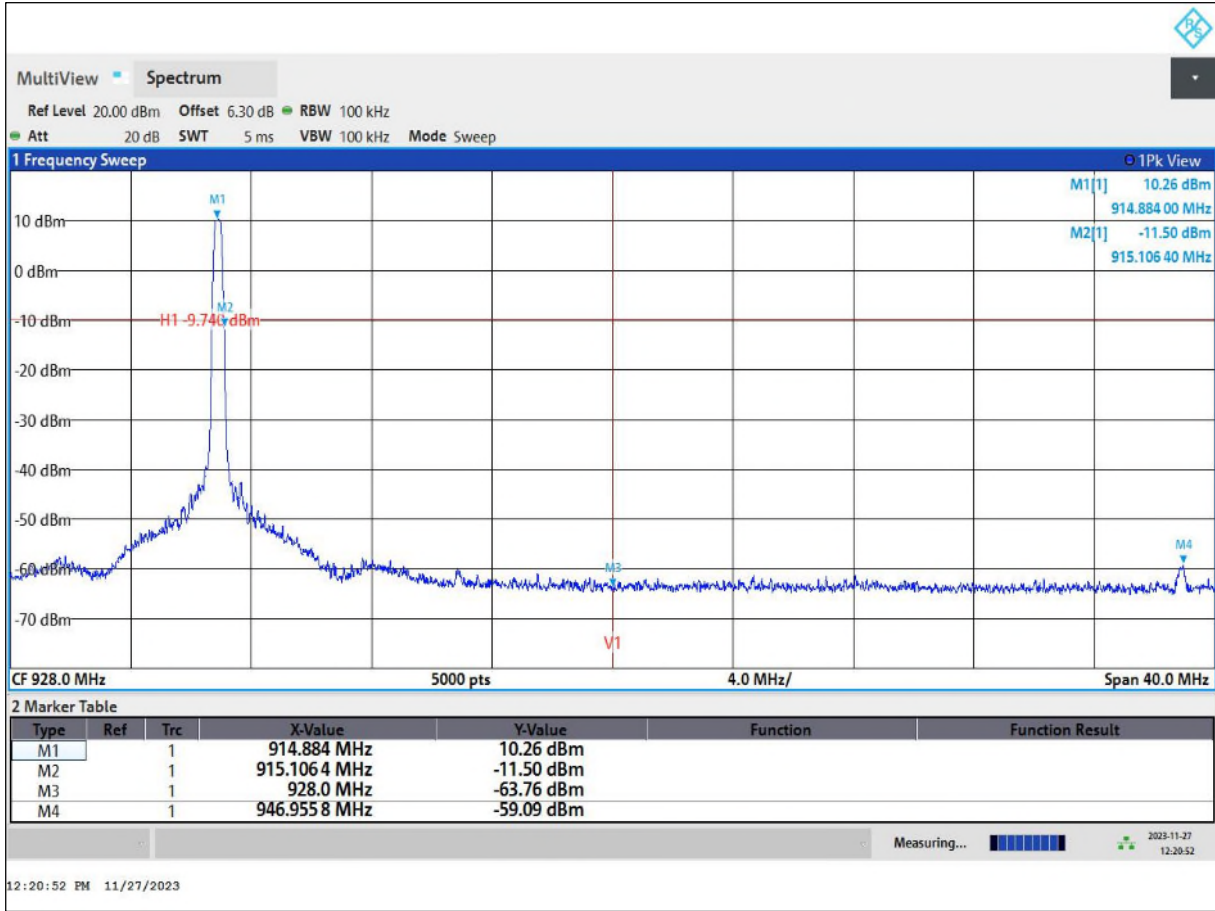
D04_999_DTS_BE_ChHigh_OP1



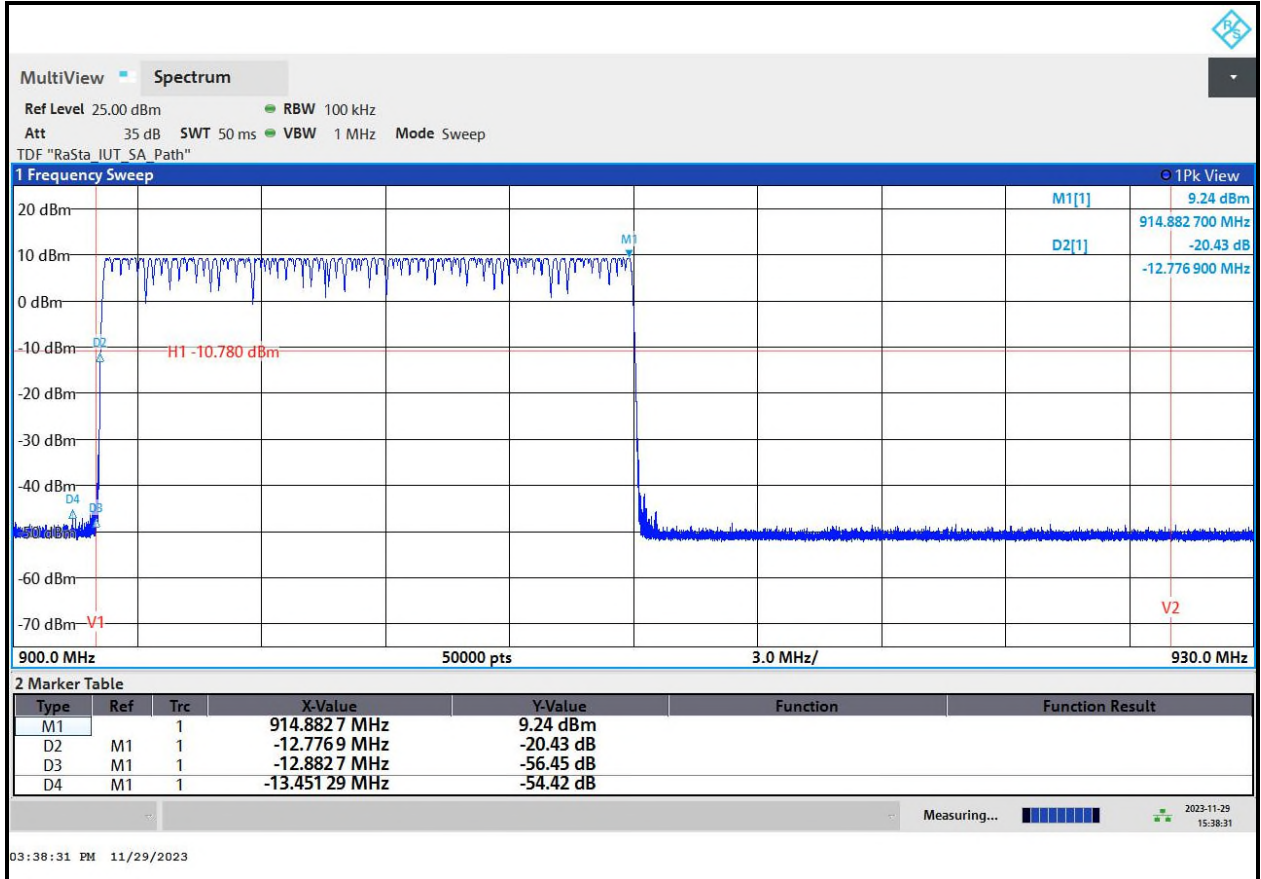
D10_000_FHSS_BE_ChLow_OP2



D10_999_FHSS_PK-BE_ChHigh_OP2

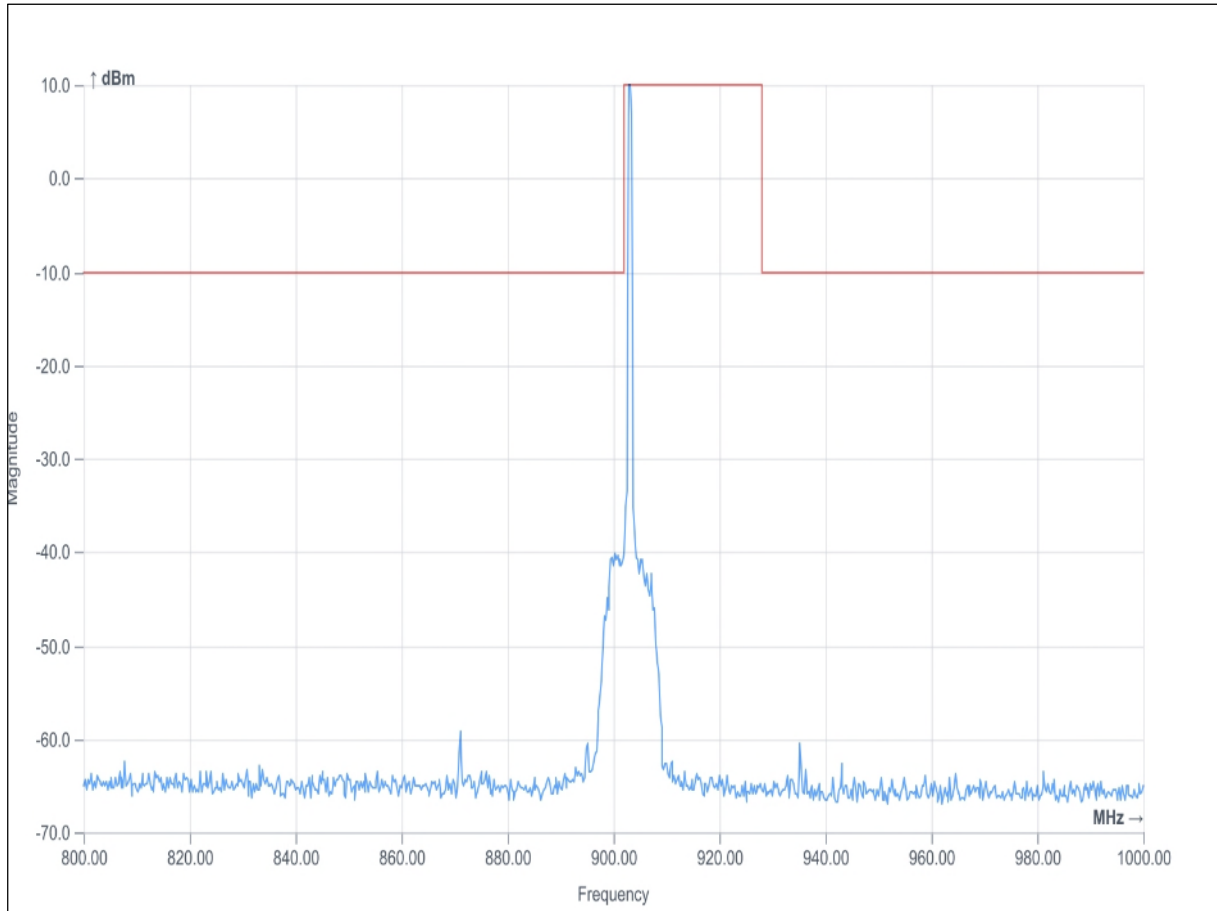


D10_111_FHSS_PK-BE_Hopping_OP2

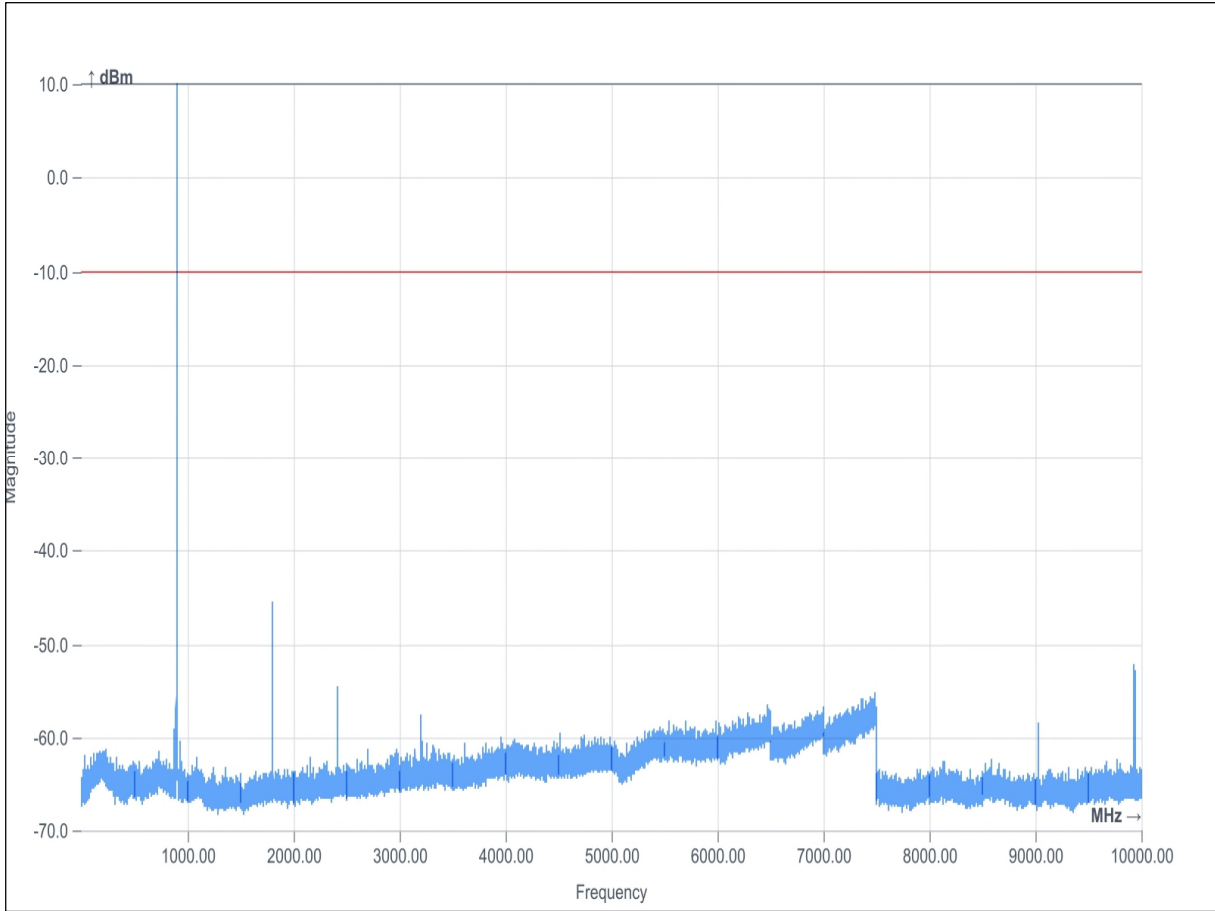


Emissions in non-restricted frequency bands

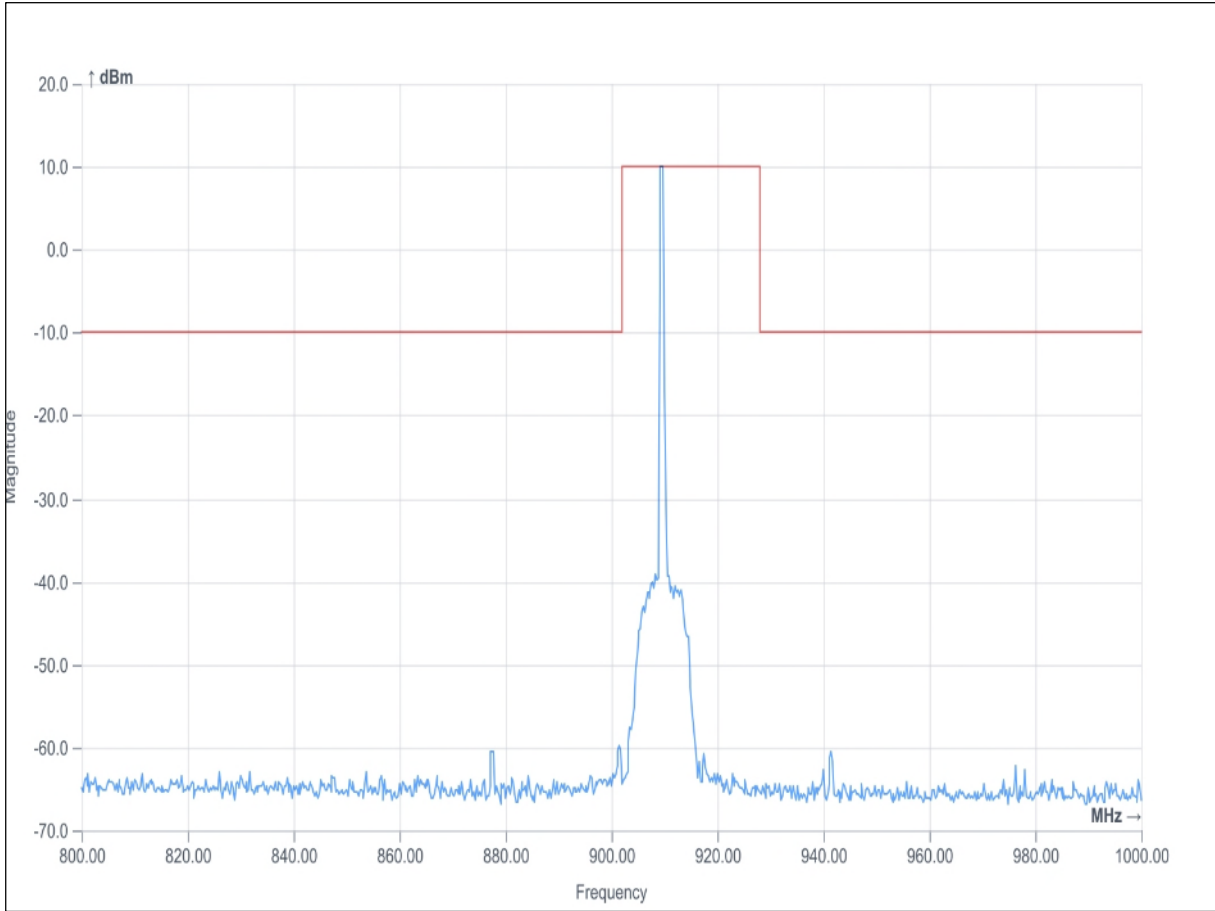
D04_101_DTS_CSE_ref_ChLow_OP1



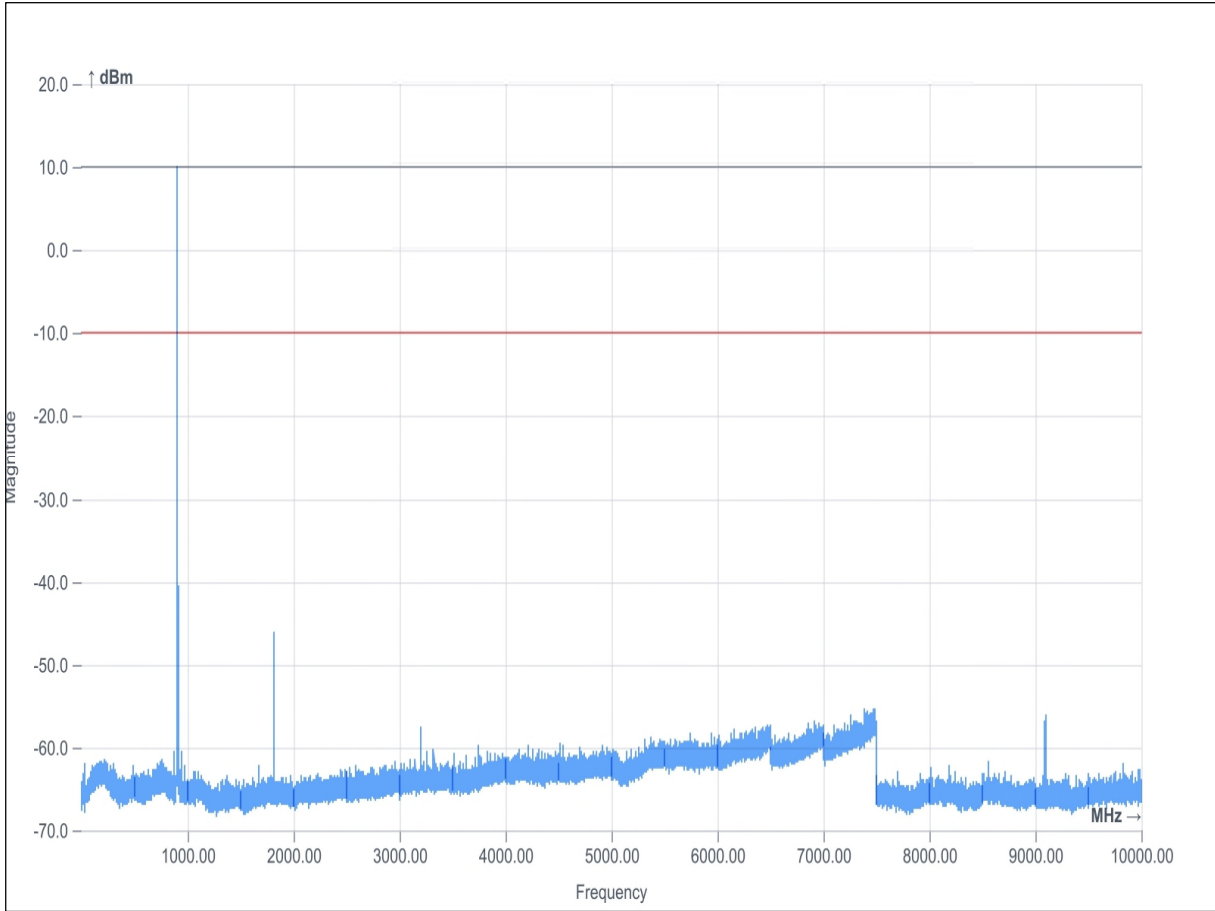
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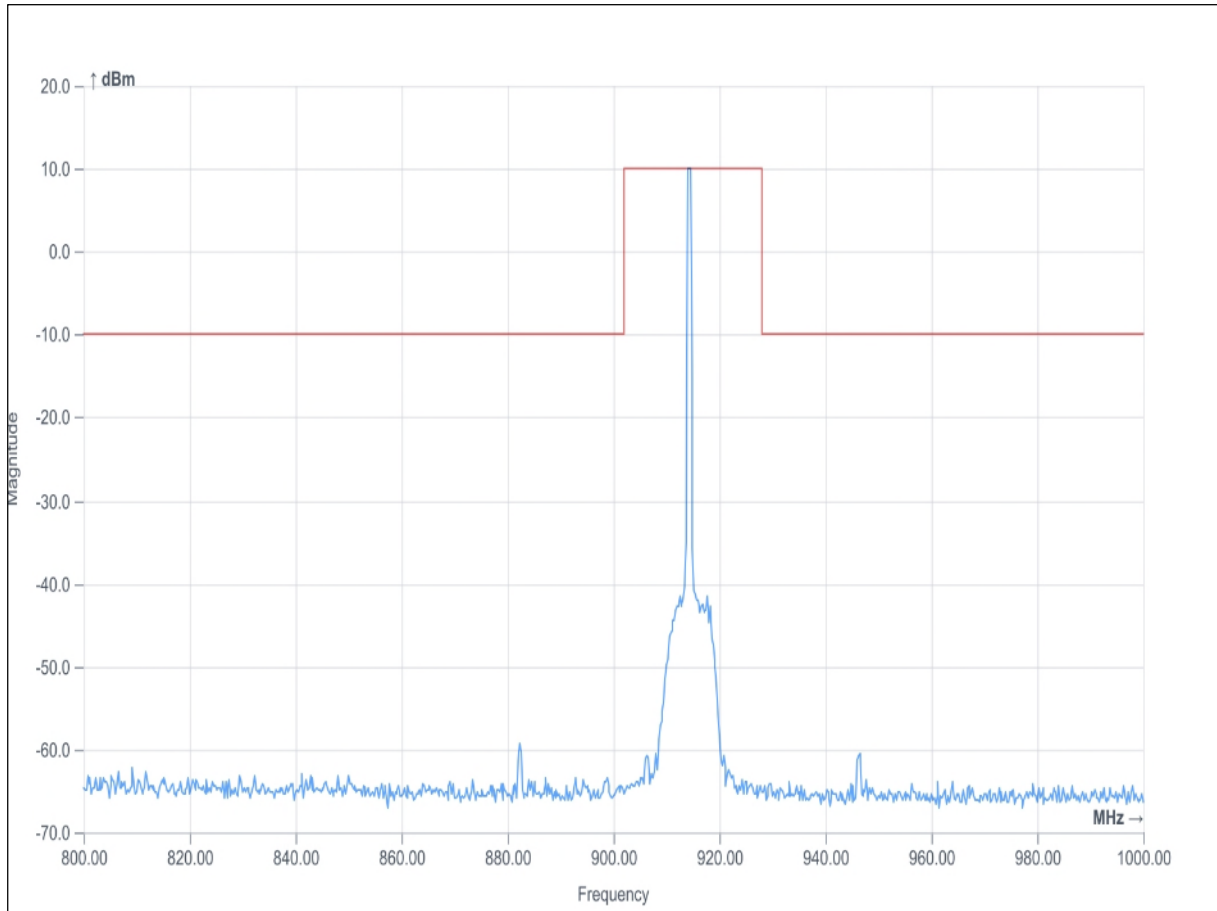
D04_201_DTS_CSE_ref_ChMid_OP1



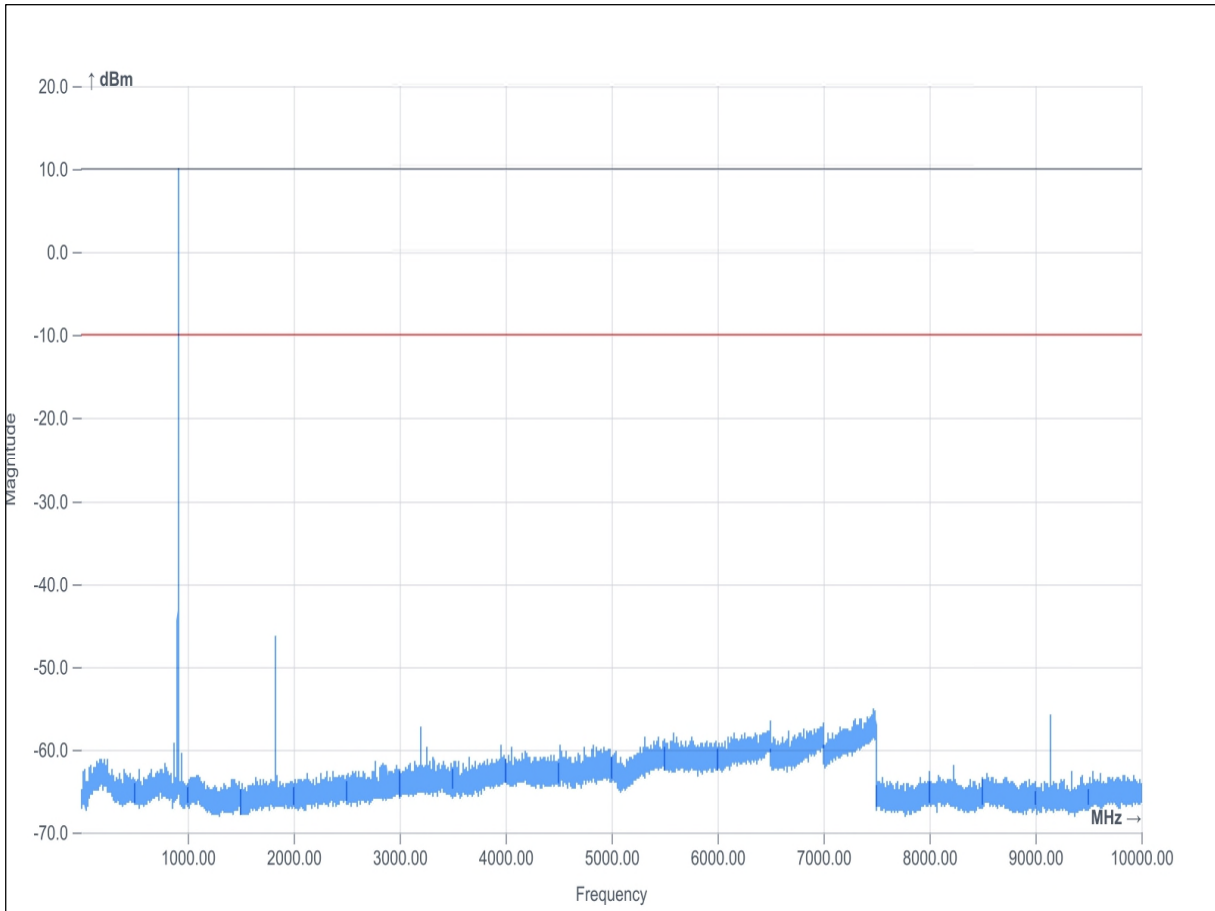
D04_202_DTS_CSE_ChMid_OP1



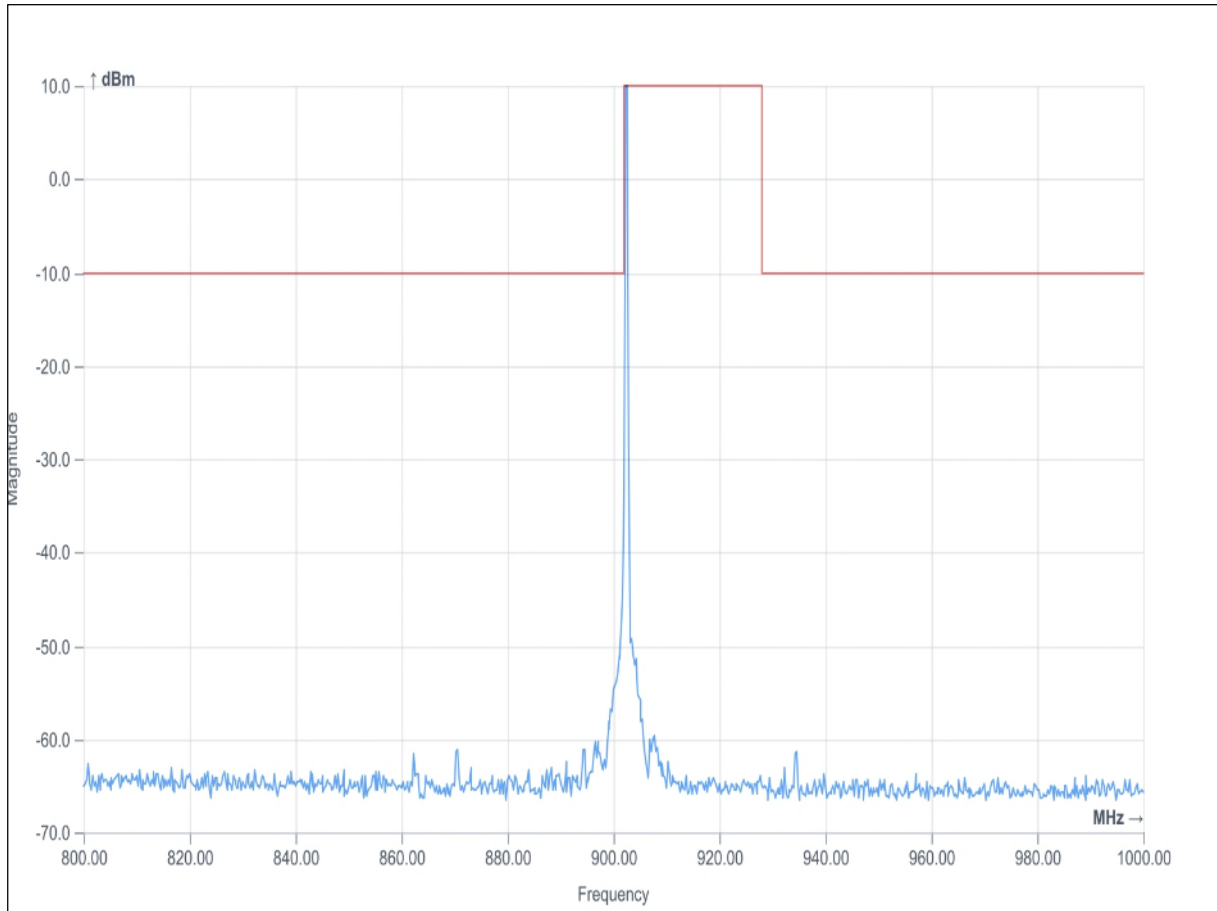
D04_301_DTS_CSE_ref_ChHigh_OP1



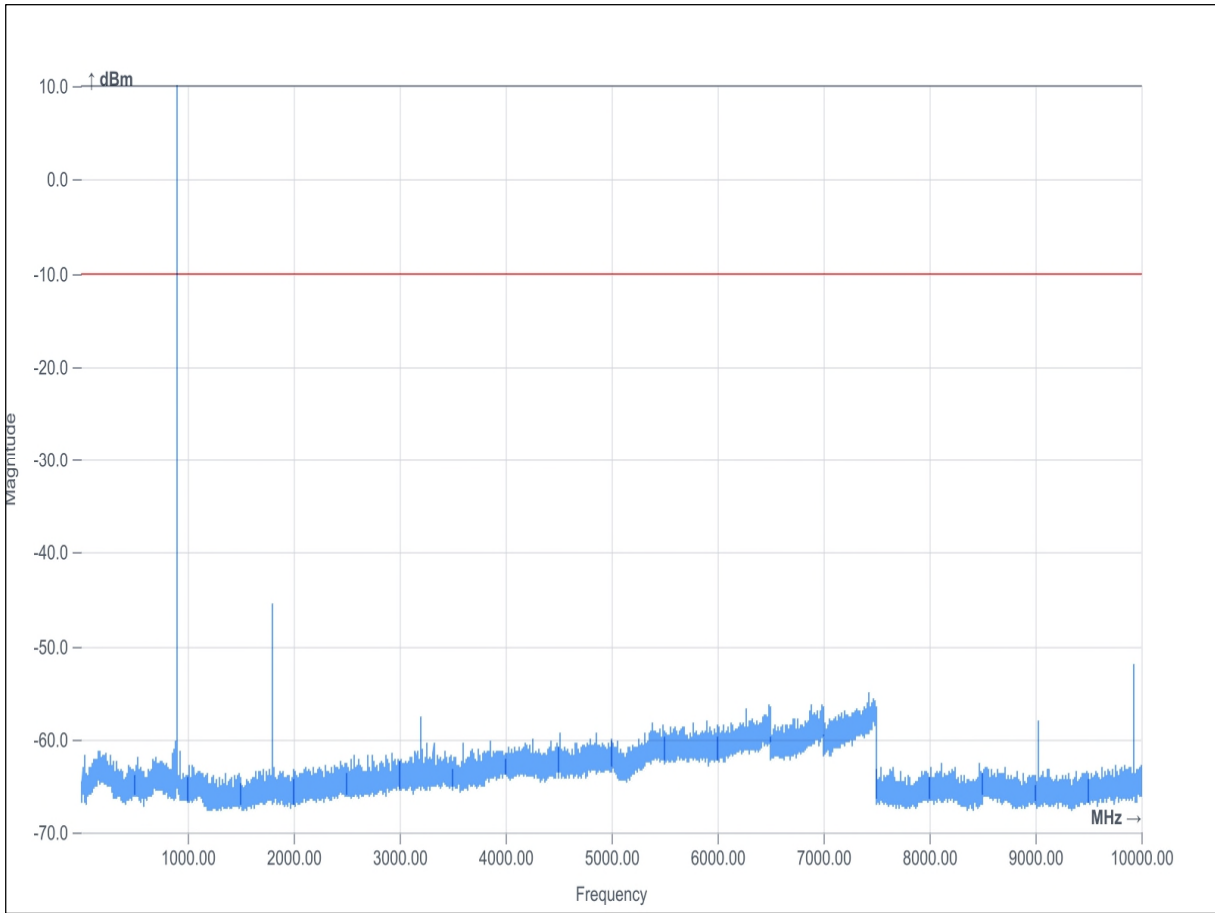
D04_302_DTS_CSE_ChHigh_OP1



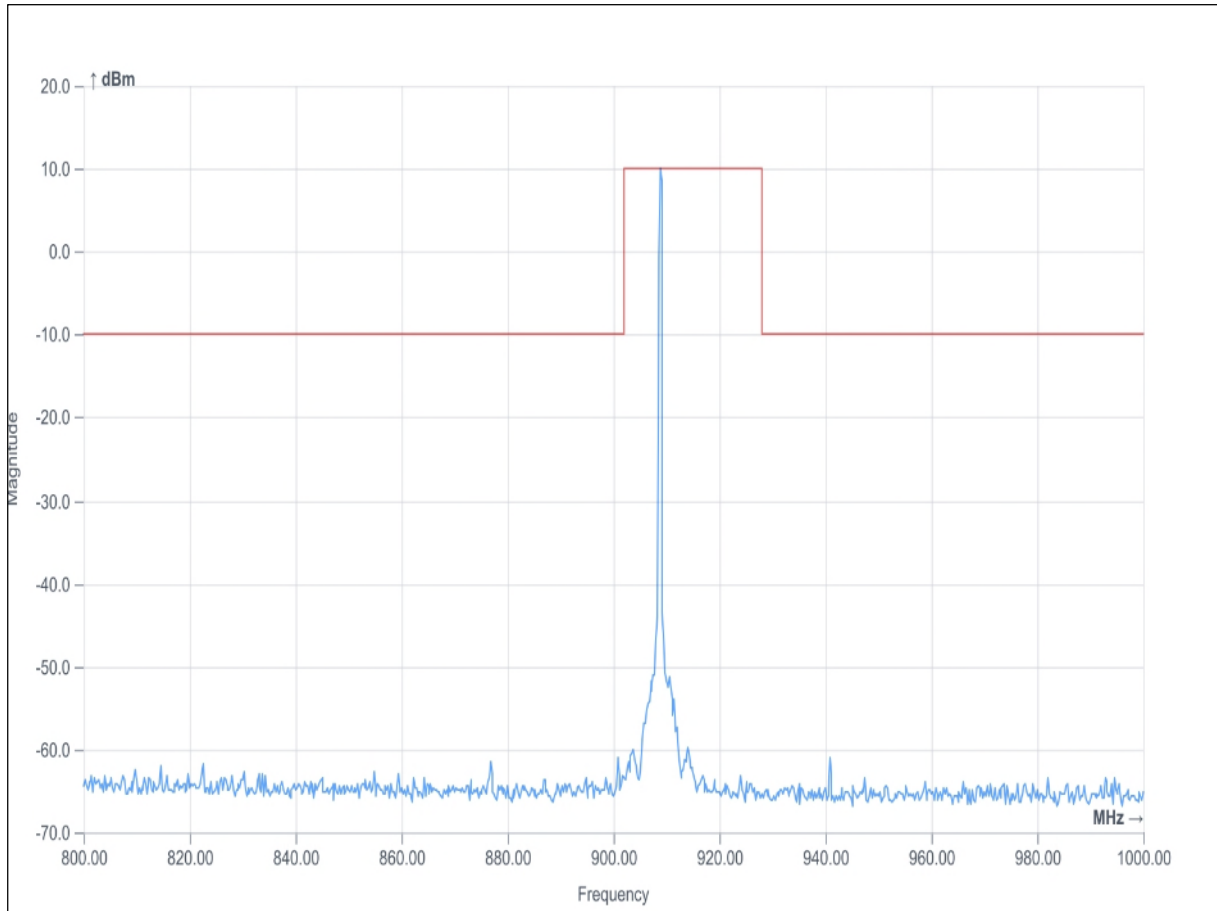
D10_101_FHSS_CSE_ref_ChLow_OP2



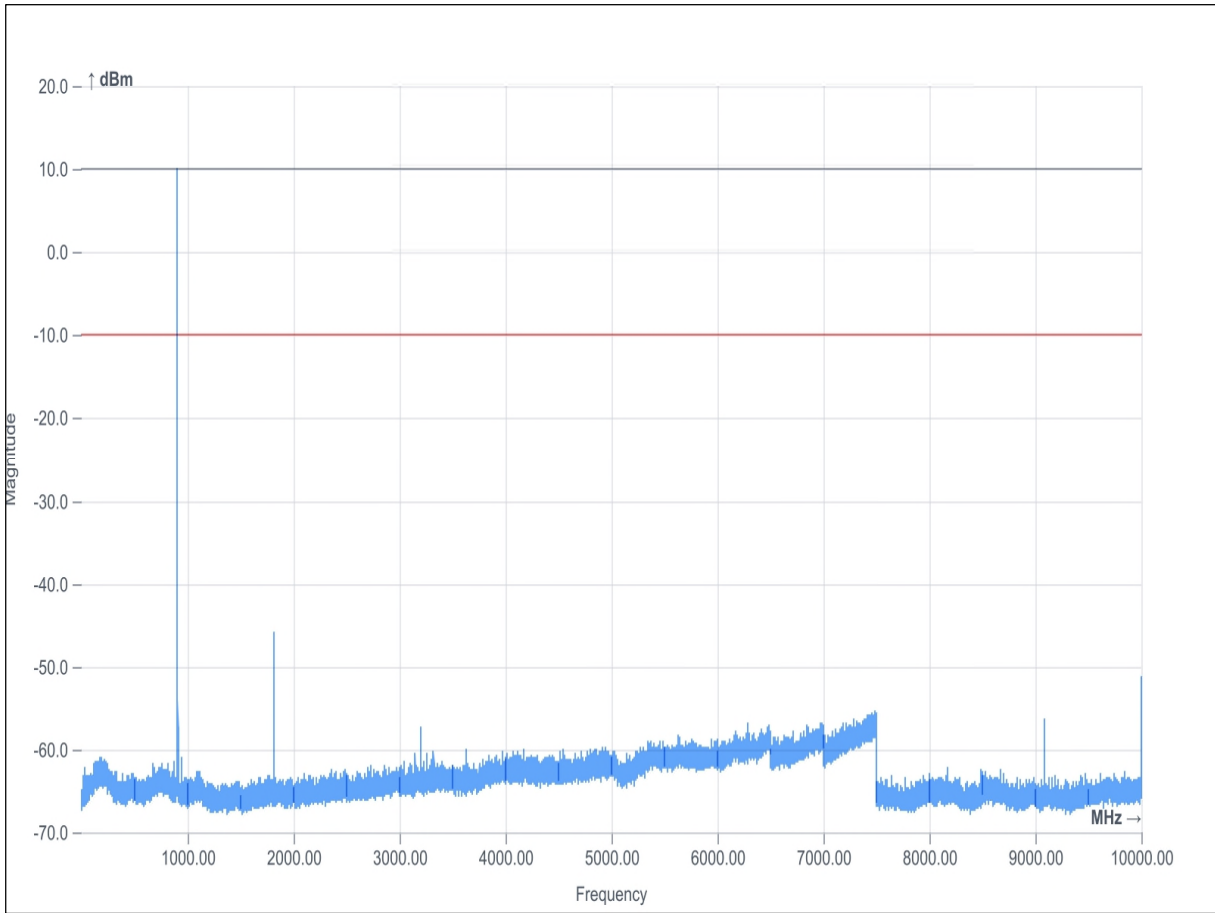
D10_102_FHSS_CSE_ChLow_OP2



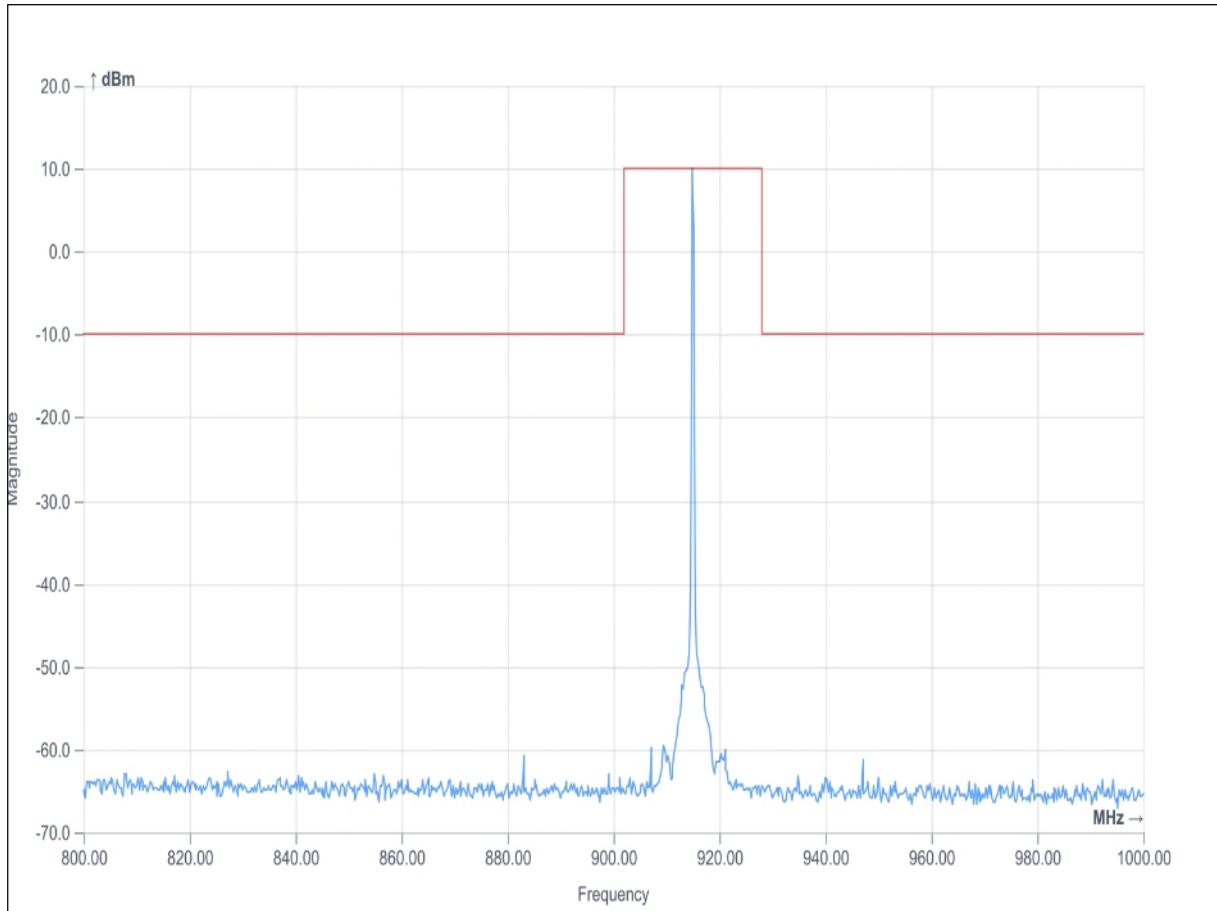
D10_201_FHSS_PK-CSE_ref_ChMid_OP2



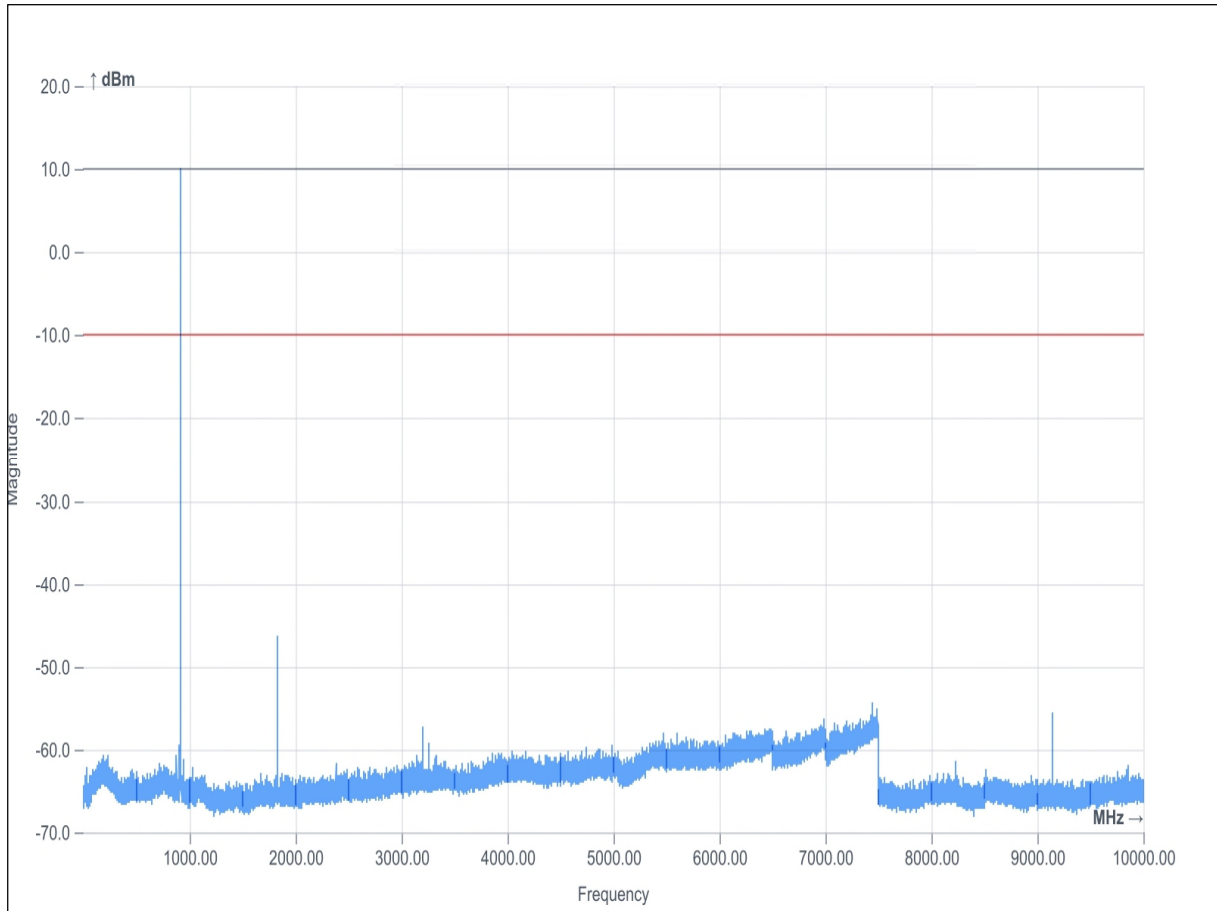
D10_202_FHSS_CSE_ChMid_OP2



D10_301_FHSS_CSE_ref_ChHigh_OP2

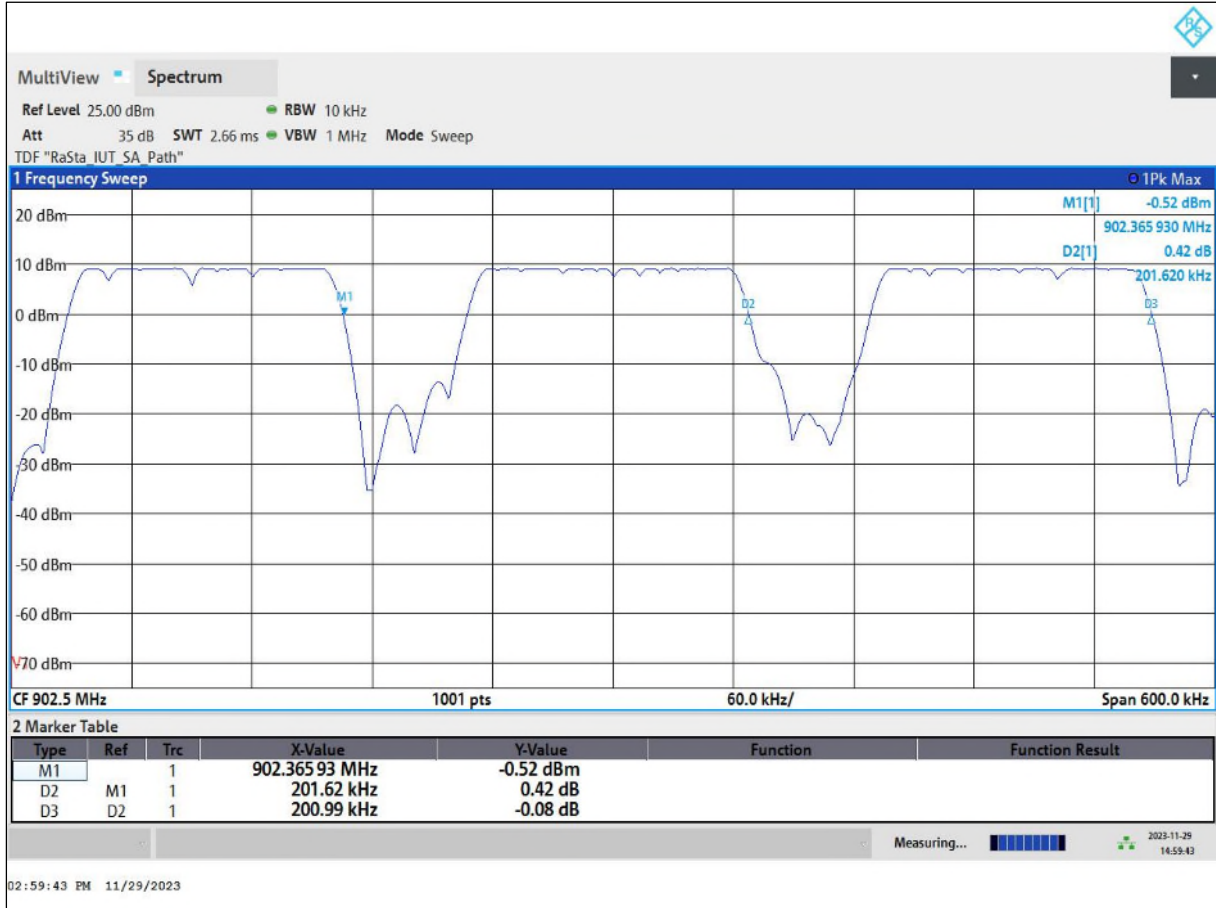


D10_302_FHSS_CSE_ChHigh_OP2



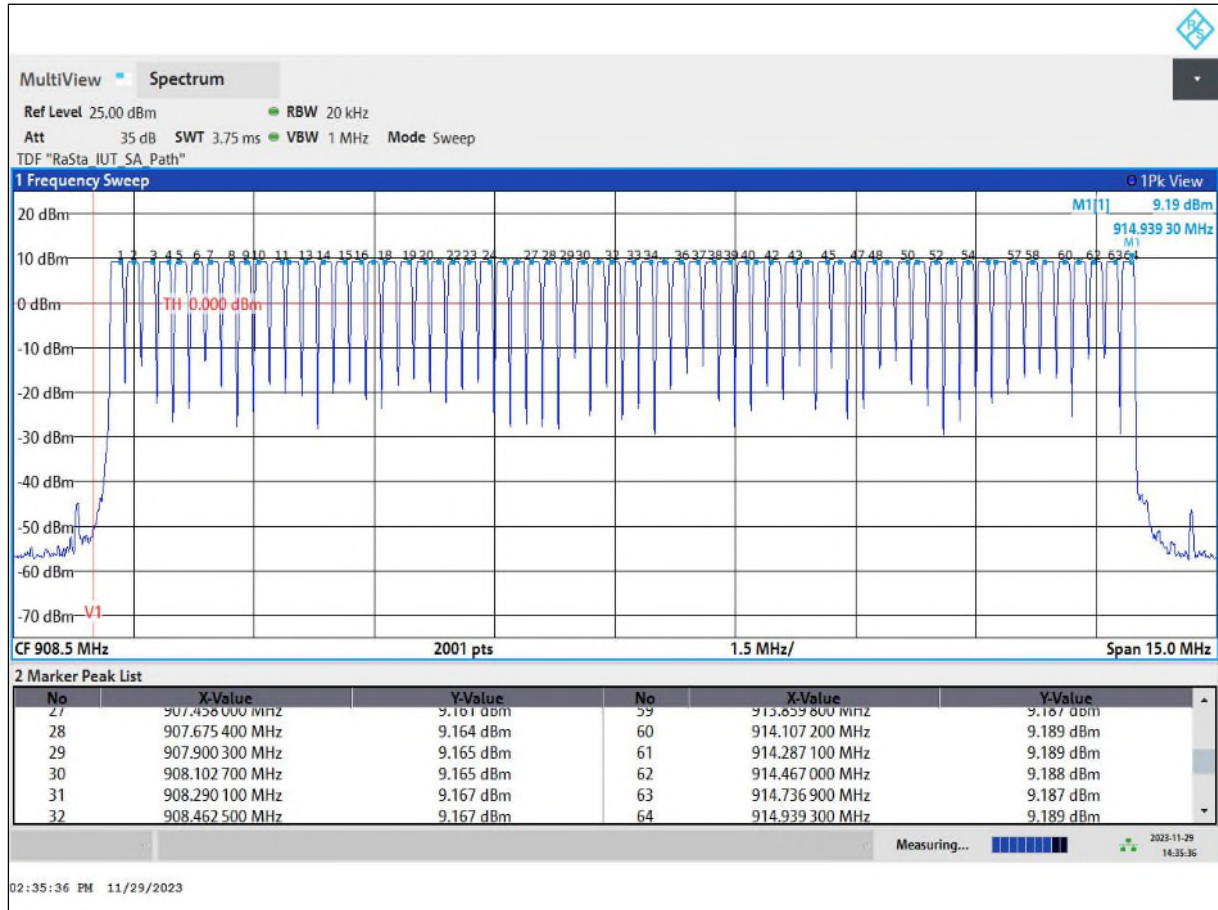
Carrier Frequency Separation

D06_001_FHSS_FreqSep_OP3



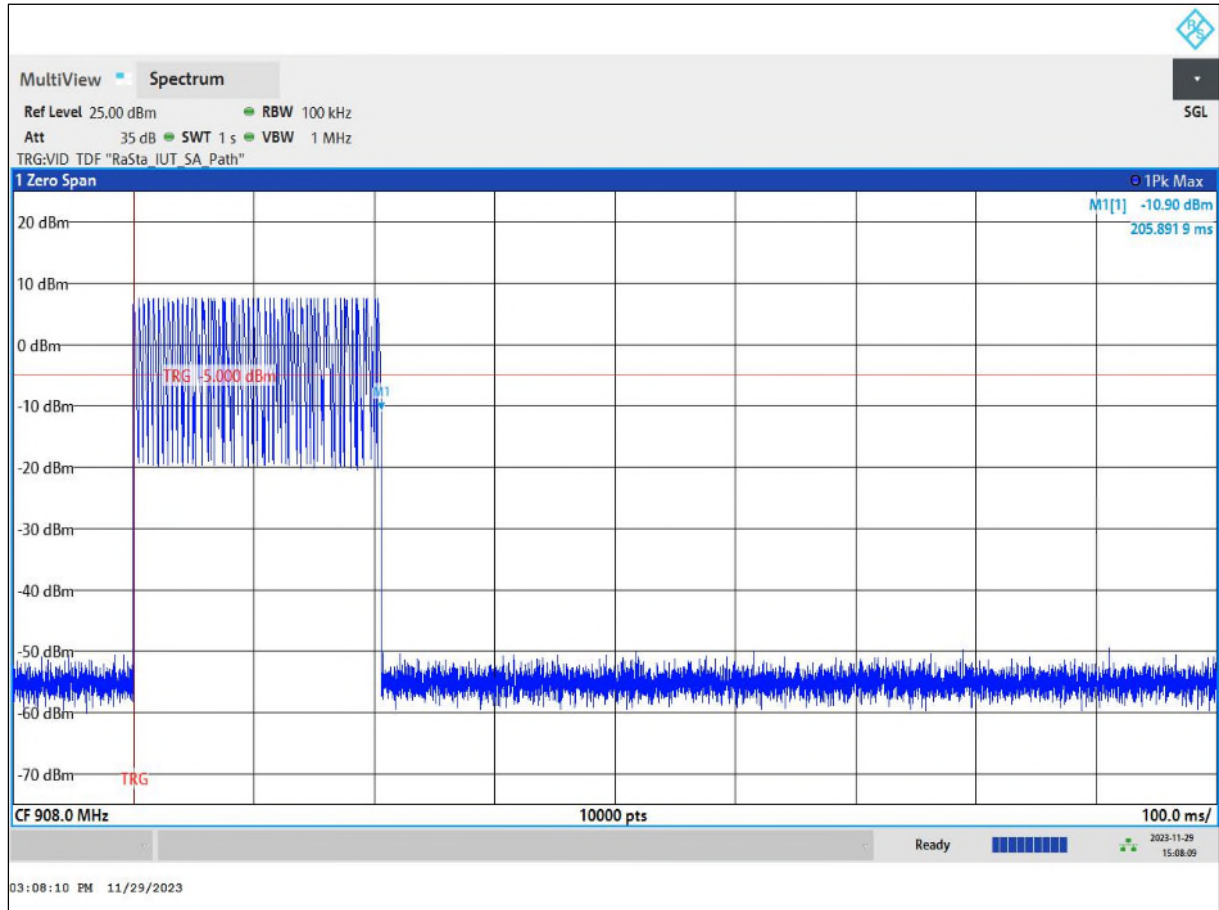
Number of Hopping Channels

D07_001_#Hopps_Peak_list_OP3

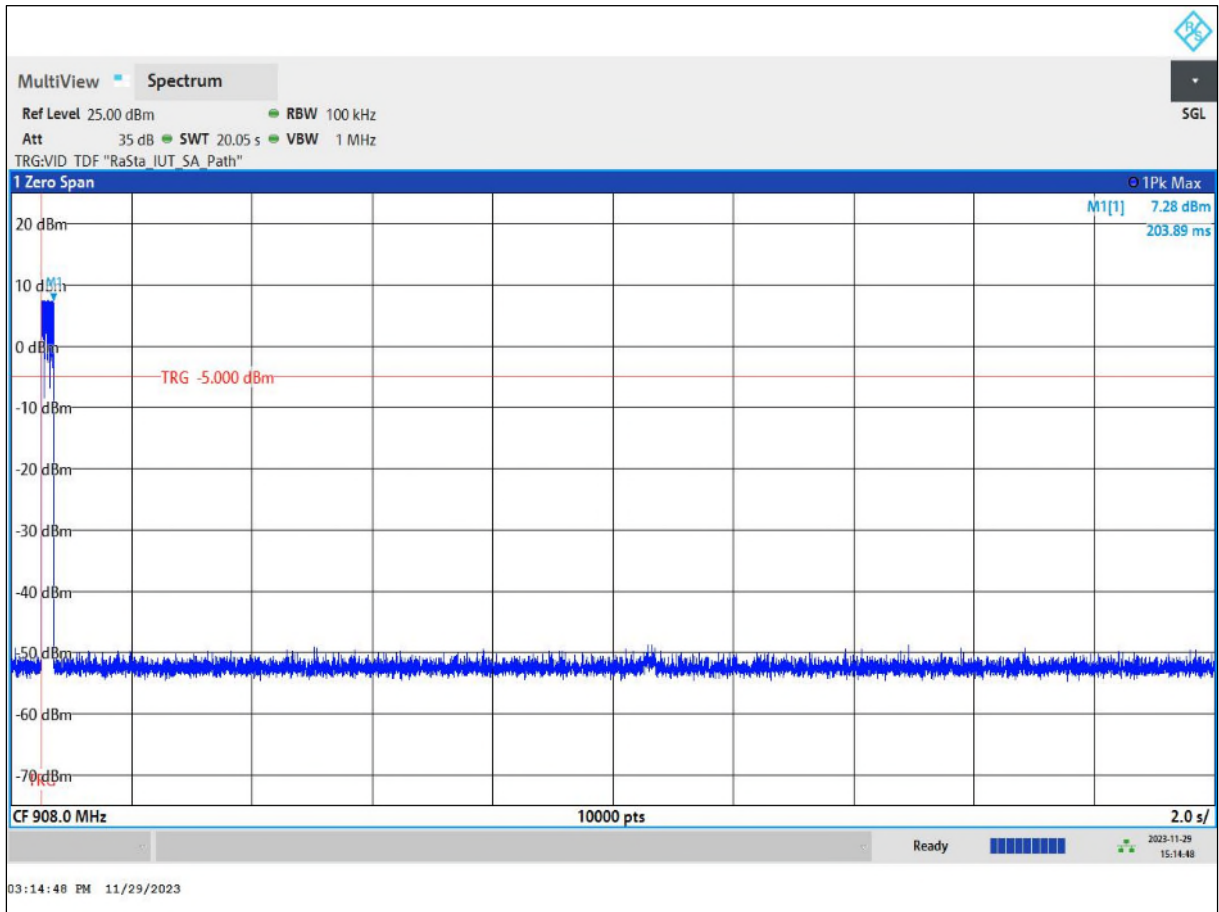


Time of Occupancy

D08_001_DwellTime_10s_OP3



D08_002_DwellTime_20s_OP3



Radiated field strength emissions below 30 MHz

2.01a_RSE_Op1_chLow_standing

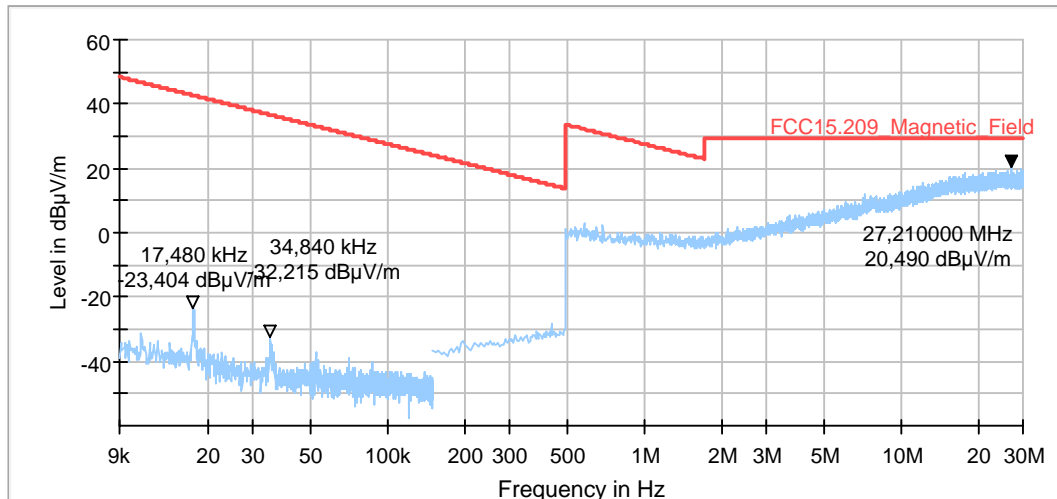
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	Maa
Operating Mode:	mode 1 DTS
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	22-1-01265S34_C01
Power supply:	Battery AA

Full Spectrum

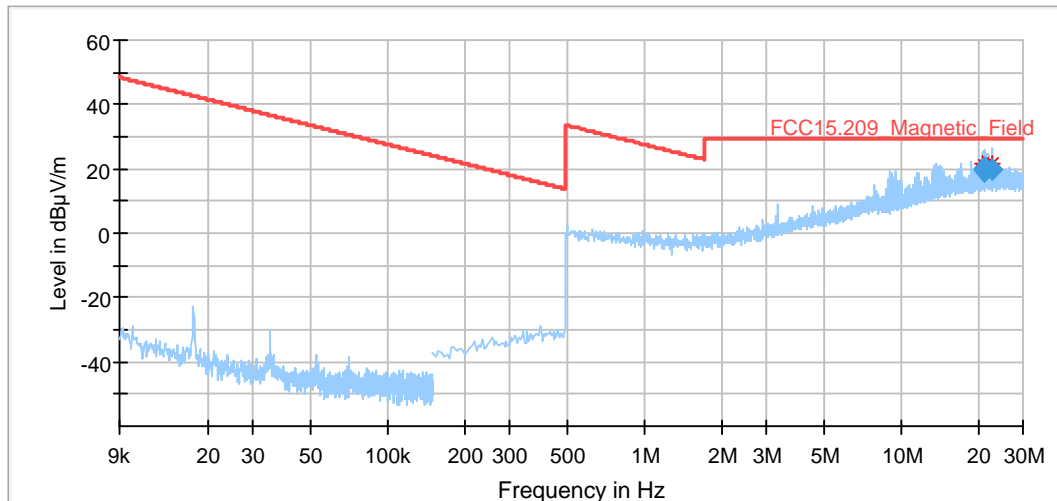


2.01b_RSE_Op1_chLow_lying

Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
 Test Site Location: Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
 Version of Testsoftware: EMC32 V10.50.0
 Distance correction: used accord. table, pls. see test report
 Technical Data: Please see page 2 for detailed data of measurement setup
 Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation
 Used filter: bypass
 Test Standard: FCC 15.205 § 15.209; RSS-Gen: Issue 5
 Operator: Maa
 Operating Mode: mode 1 | DTS
 Environmental Conditions: Humidity : 40% rH; Temperature: 20 °C
 EUT Setup: 1
 Verdict: Passed

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
21.002000	19.64	29.54	9.90	9.000	H	148.0	1.4	12:00:24 - 04.07.2023
21.158000	19.64	29.54	9.90	9.000	H	2.0	1.5	12:03:45 - 04.07.2023
21.206000	20.33	29.54	9.21	9.000	H	28.0	1.5	12:06:32 - 04.07.2023
21.310000	19.14	29.54	10.40	9.000	H	183.0	1.5	12:09:01 - 04.07.2023
22.602000	19.88	29.54	9.66	9.000	H	37.0	1.7	12:12:23 - 04.07.2023

2.02a_RSE_Op1_chMid_standing

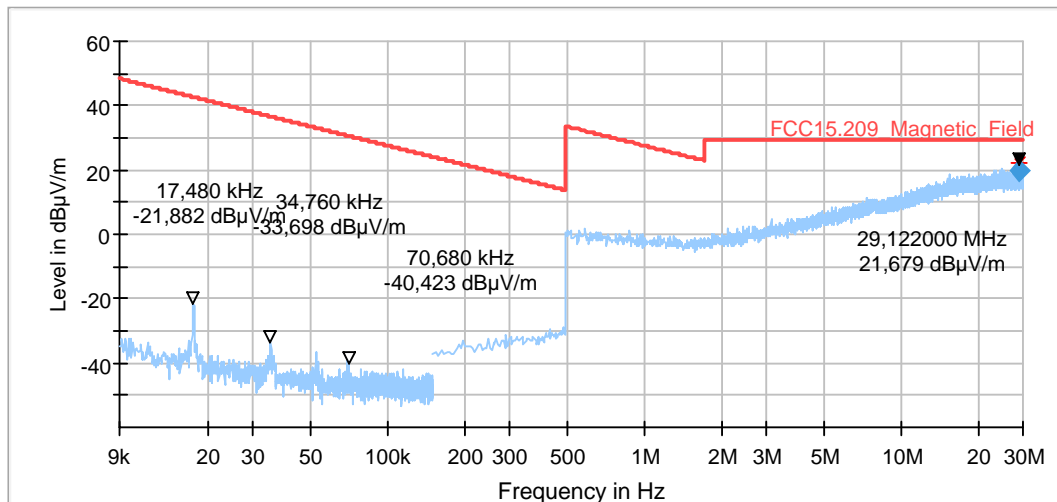
Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
 Test Site Location: Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
 Version of Testsoftware: EMC32 V10.50.0
 Distance correction: used accord. table, pls. see test report
 Technical Data: Please see page 2 for detailed data of measurement setup
 Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation
 Used filter: bypass
 Test Standard: FCC 15.205 § 15.209; RSS-Gen: Issue 5
 Operator: Maa
 Operating Mode: mode 1 | DTS
 Environmental Conditions: Humidity : 40% rH; Temperature: 20 °C
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 22-1-01265S34_C01
 Power supply: Battery AA

Full Spectrum



Final_Result

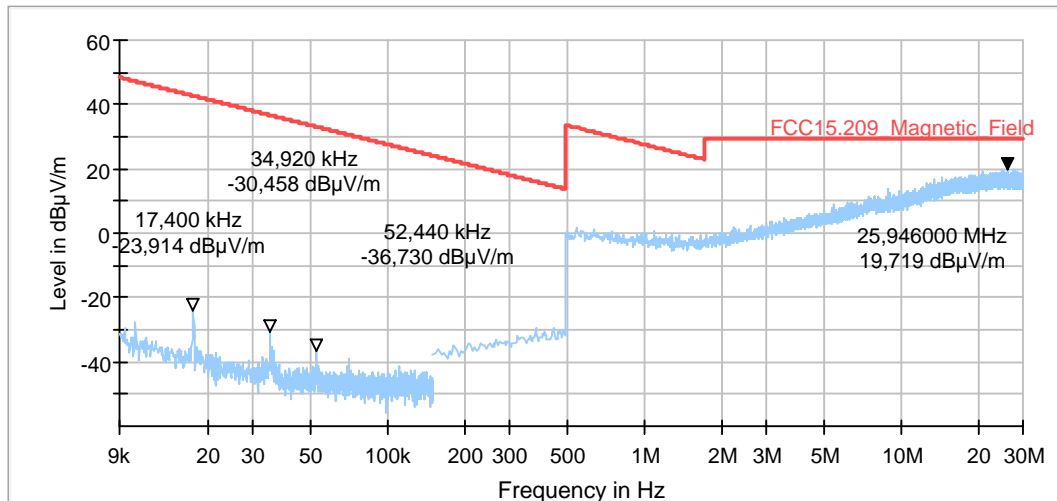
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
29.122000	19.78	29.54	9.76	9.000	V	184.0	1.9	17:01:10 - 04.07.2023

2.02b_RSE_Op1_chMid_lying

Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	Maa
Operating Mode:	mode 1 DTS
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	1
Verdict:	Passed

Full Spectrum



2.03a_RSE_Op1_chHigh_standing

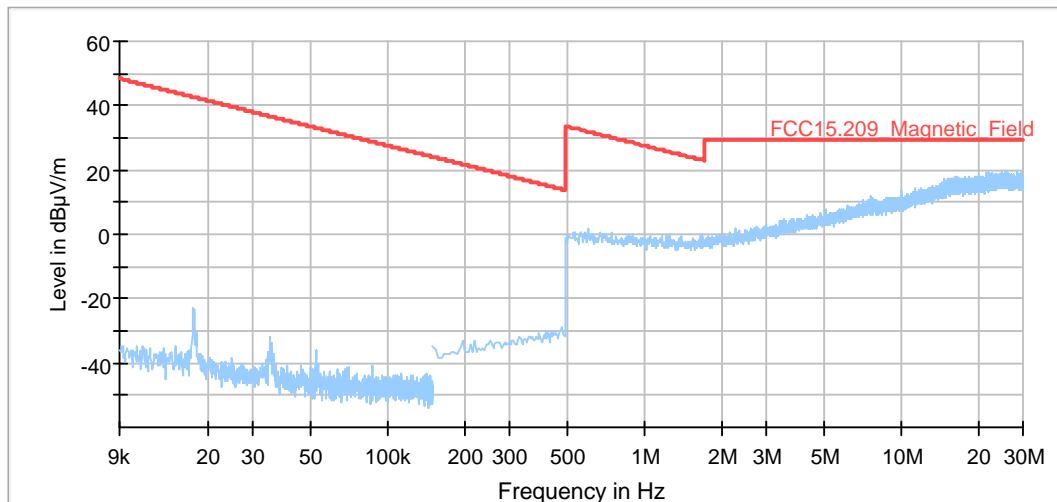
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	Maa
Operating Mode:	mode 1 DTS
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	22-1-01265S34_C01
Power supply:	Battery AA

Full Spectrum

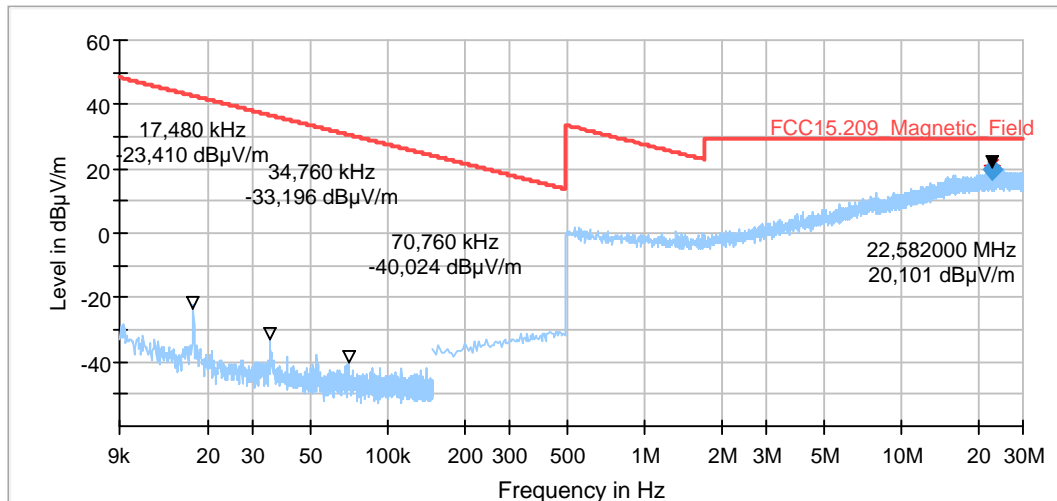


2.03b_RSE_Op1_chHigh_lying

Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
 Test Site Location: Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
 Version of Testsoftware: EMC32 V10.50.0
 Distance correction: used accord. table, pls. see test report
 Technical Data: Please see page 2 for detailed data of measurement setup
 Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation
 Used filter: bypass
 Test Standard: FCC 15.205 § 15.209; RSS-Gen: Issue 5
 Operator: Maa
 Operating Mode: mode 1 | DTS
 Environmental Conditions: Humidity : 40% rH; Temperature: 20 °C
 EUT Setup: 1
 Verdict: Passed

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
22.582000	19.98	29.54	9.56	9.000	V	28.0	1.7	13:39:00 - 04.07.2023

2.04a_RSE_Op2_chLow_standing

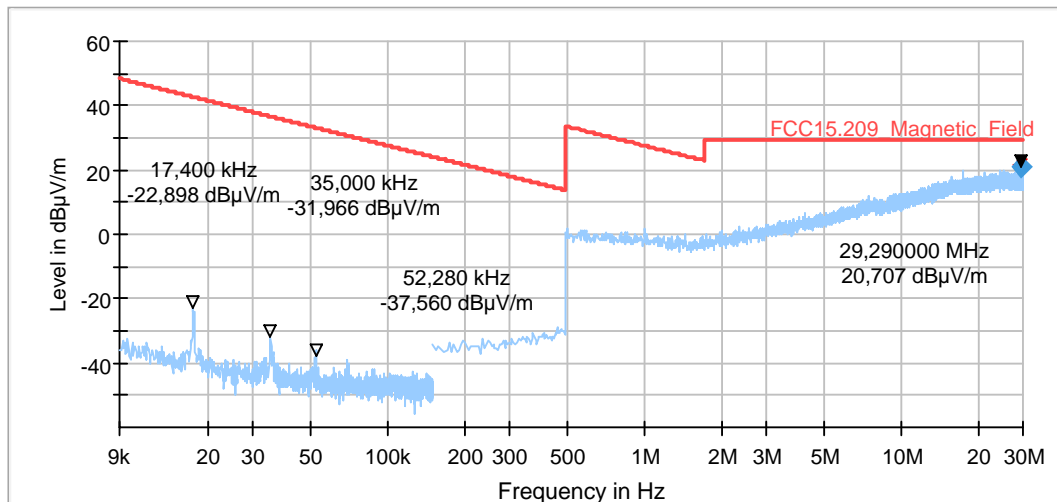
Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
 Test Site Location: Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
 Version of Testsoftware: EMC32 V10.50.0
 Distance correction: used accord. table, pls. see test report
 Technical Data: Please see page 2 for detailed data of measurement setup
 Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation
 Used filter: bypass
 Test Standard: FCC 15.205 § 15.209; RSS-Gen: Issue 5
 Operator: Maa
 Operating Mode: mode 2 | FHSS
 Environmental Conditions: Humidity : 40% rH; Temperature: 20 °C
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 22-1-01265S34_C01
 Power supply: Battery AA

Full Spectrum



Final_Result

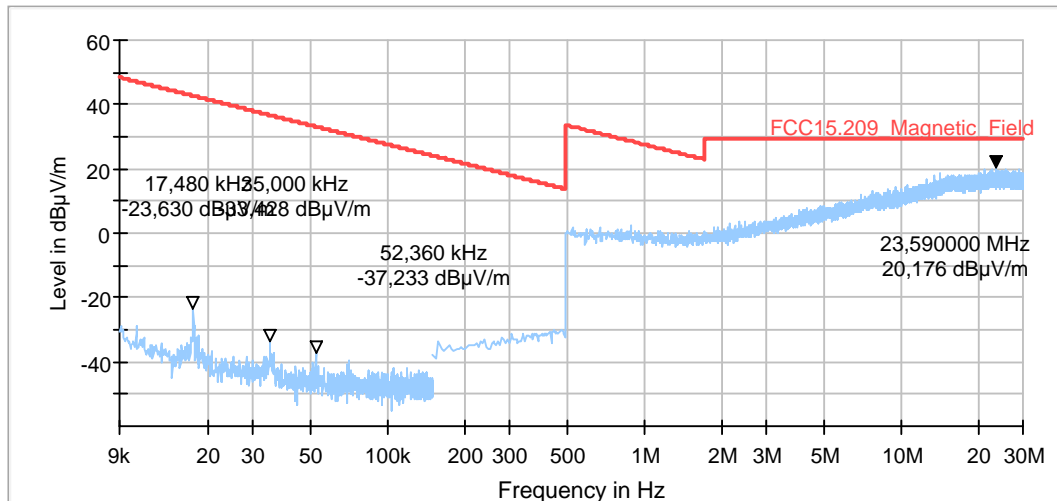
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
29.290000	21.03	29.54	8.51	9.000	V	216.0	1.9	16:17:44 - 04.07.2023

2.04b_RSE_Op2_chLow_lying

Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	Maa
Operating Mode:	mode 2 FHSS
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	1
Verdict:	Inconclusive

Full Spectrum

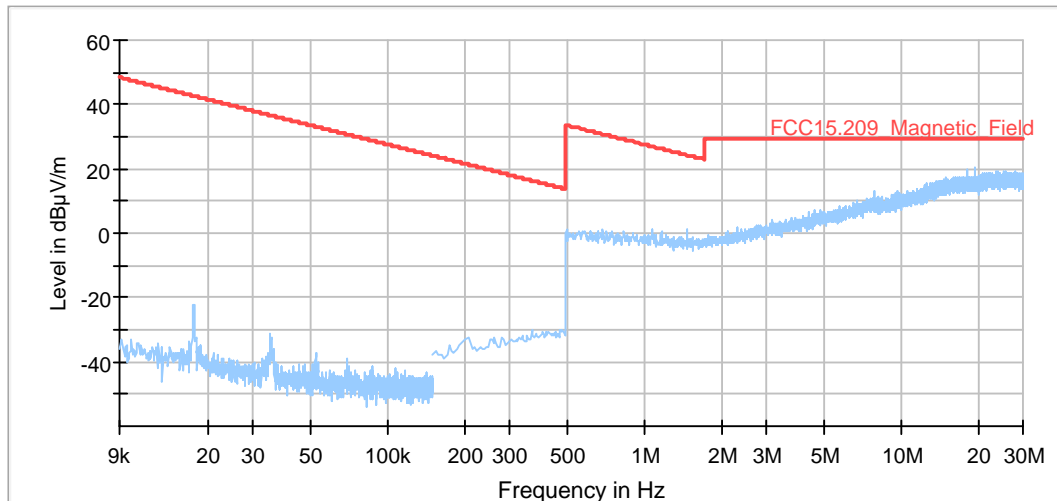


2.05a_RSE_Op2_chMid_standing

Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	Maa
Operating Mode:	mode 2 FHSS
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	1
Verdict:	Passed

Full Spectrum

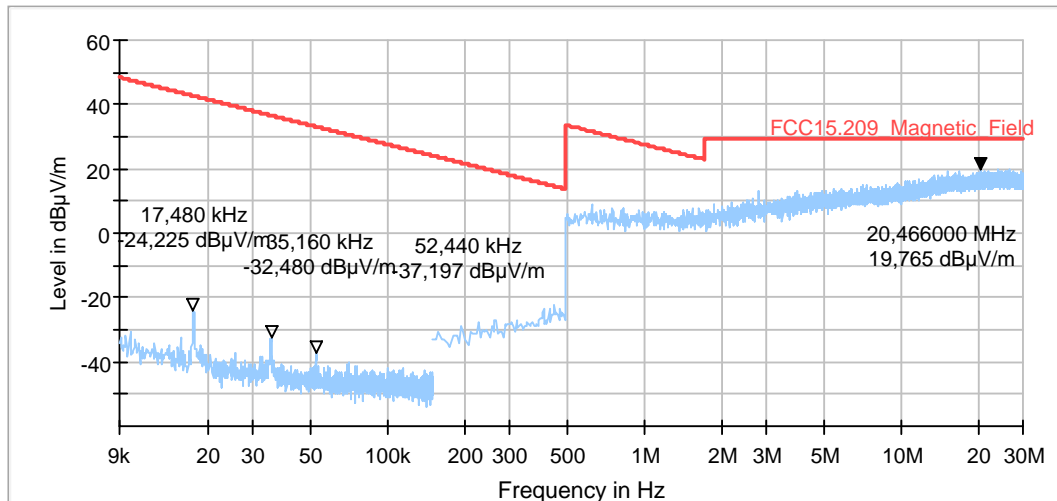


2.05b_RSE_Op2_chMid_lying

Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	Maa
Operating Mode:	mode 2 FHSS
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	1
Verdict:	Passed

Full Spectrum

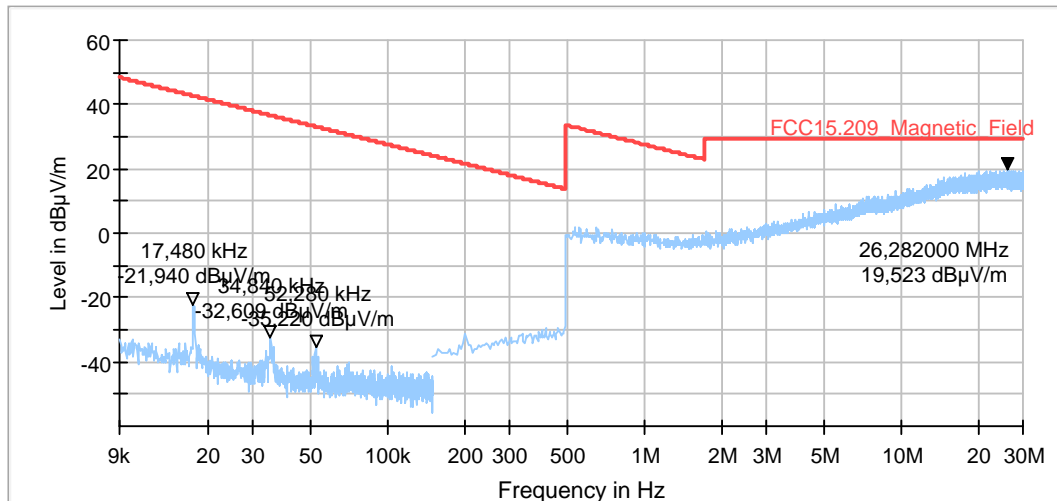


2.06a_RSE_Op2_chHigh_standing

Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	Maa
Operating Mode:	mode 2 FHSS
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	1
Verdict:	Inconclusive

Full Spectrum

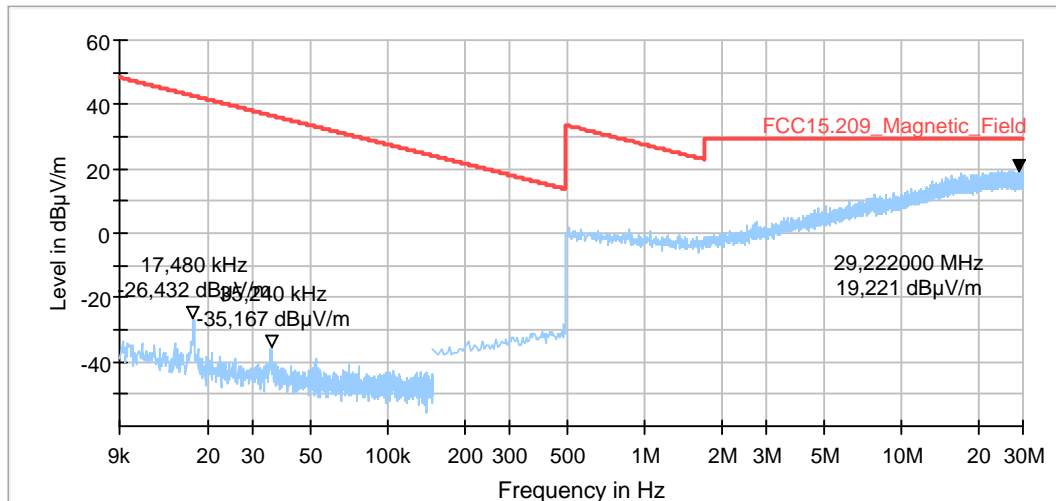


2.06b_RSE_Op2_chHigh_lying

Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	Maa
Operating Mode:	mode 2 FHSS
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	1
Verdict:	Passed

Full Spectrum



Radiated field strength emissions 30 MHz – 1 GHz

3.01a_RSE_Op1_chLow_standing

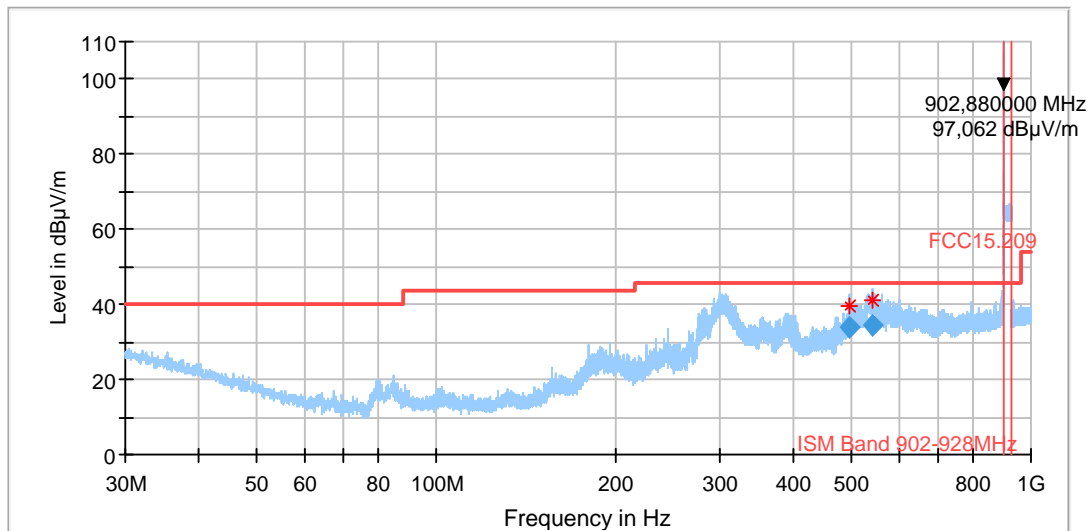
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: cetecom advanced GmbH Essen
 Test Standard: FCC 15.205&15.209 & RSS Gen. Issue 5
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity: 40% rH; Temperature: 20 °C
 Operator Name: TFra/Maa
 Operating Mode: mode 1 | DTS
 Verdict: Passed

EUT Information

PMT number: 22-1-01265S38_C01
 Power supply: 5 V DC



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)
495.110000	34.00	46.00	12.00	120.000	112.0	V	196.0	19.7	0.0	2.4
542.390000	34.53	46.00	11.47	120.000	112.0	V	333.0	21.9	0.0	2.5

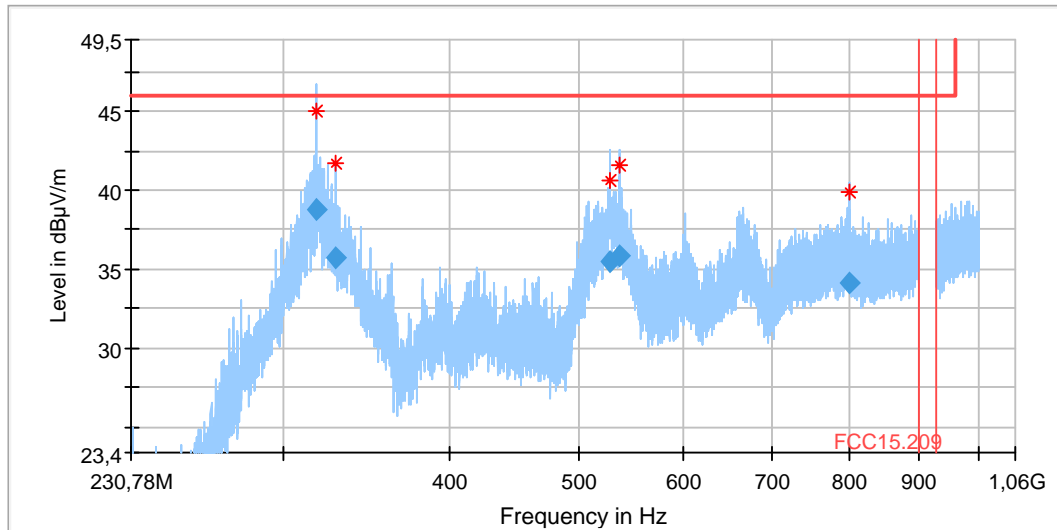
3.01b_RSE_Op1_chLow_lying

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetekom advanced GmbH Essen
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 40% rH; Temperature: 20 °C
Operator Name:	TFra/PSt
Operating Mode:	mode 1 DTS
Verdict:	Pass

EUT Information

PMT number:	22-1-01265S38_C01
Power supply:	5 V DC



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)
317.570000	38.73	46.00	7.27	120.000	125.0	V	17.0	15.6	0.0	1.8
329.250000	35.74	46.00	10.26	120.000	130.0	V	0.0	16.1	0.0	1.8
527.990000	35.44	46.00	10.56	120.000	112.0	V	333.0	21.2	0.0	2.4
537.870000	35.80	46.00	10.20	120.000	105.0	V	329.0	21.6	0.0	2.5
797.670000	34.19	46.00	11.81	120.000	182.0	H	275.0	25.5	0.0	3.1

3.02a_RSE_Op1_chMid_standing

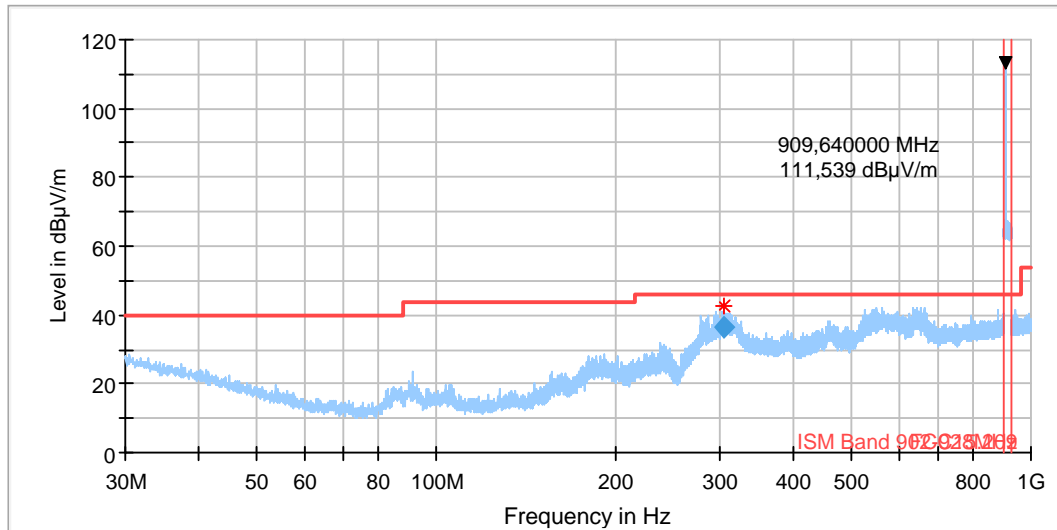
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: cetekom advanced GmbH Essen
 Test Standard: FCC 15.205&15.209 & RSS Gen. Issue 5
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity: 40% rH; Temperature: 20 °C
 Operator Name: TFra/Maa
 Operating Mode: mode 1 | DTS | 909,4 MHz
 Verdict: Passed

EUT Information

PMT number: 22-1-01265S38_C01
 Power supply: 5 V DC



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)
304.470000	36.53	46.00	9.47	120.000	143.0	V	209.0	15.2	0.0	1.7

3.02b_RSE_Op1_chMid_lying

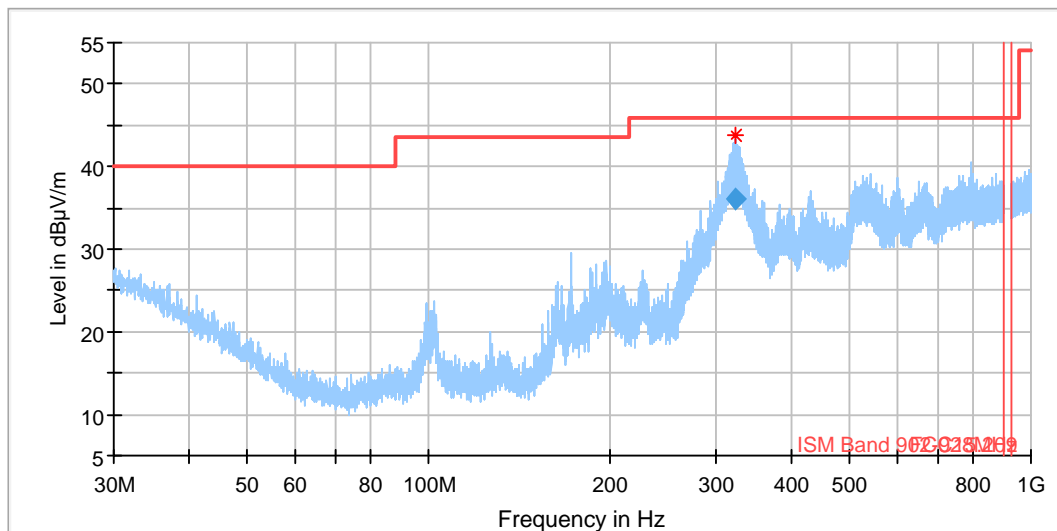
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: cetekom advanced GmbH Essen
 Test Standard: FCC 15.205&15.209 & RSS Gen. Issue 5
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity: 40% rH; Temperature: 20 °C
 Operator Name: TFra/PSt
 Operating Mode: mode 1 | DTS
 Verdict: Pass

EUT Information

PMT number: 22-1-01265S38_C01
 Power supply: 5 V DC



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)
322.410000	36.18	46.00	9.82	120.000	143.0	V	18.0	15.8	0.0	1.8

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3.03a_RSE_Op1_chHigh_standing

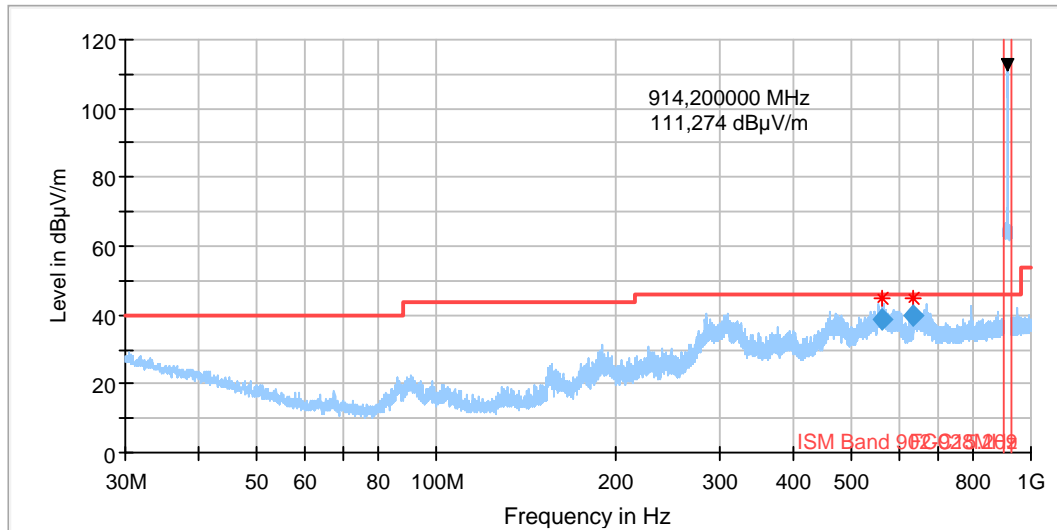
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: cetekom advanced GmbH Essen
 Test Standard: FCC 15.205&15.209 & RSS Gen. Issue 5
 Antenna polarisation: horizontal/vertical

Environmental Conditions: Humidity: 40% rH; Temperature: 20 °C
 Operator Name: TFra/Maa
 Operating Mode: mode 1 | DTS
 Verdict: Passed

EUT Information

PMT number: 22-1-01265S38_C01
 Power supply: 5 V DC



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)
562.190000	38.46	46.00	7.54	120.000	163.0	V	340.0	22.0	0.0	2.5
635.710000	39.59	46.00	6.41	120.000	115.0	H	8.0	23.5	0.0	2.9

3.03b_RSE_Op1_chHigh_lying

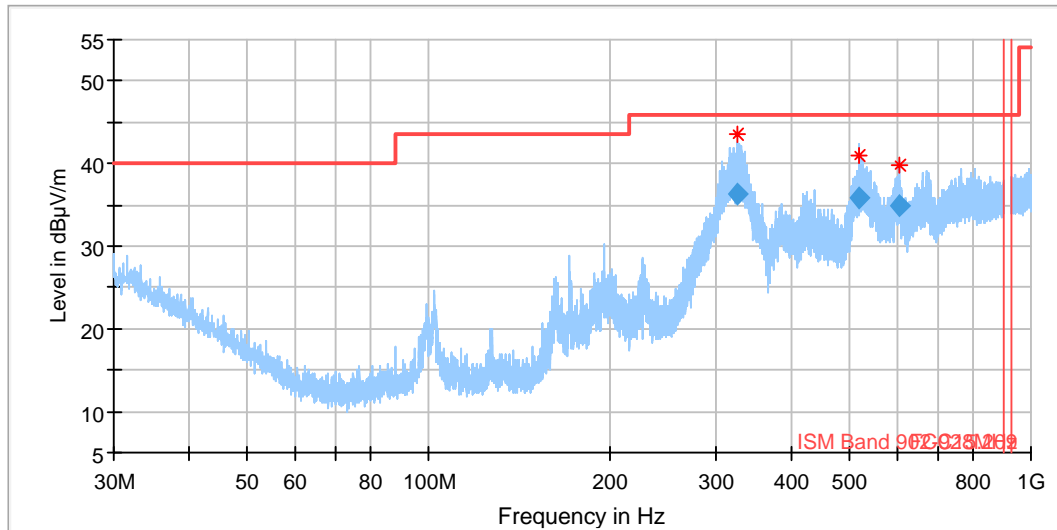
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: cetekom advanced GmbH Essen
 Test Standard: FCC 15.205&15.209 & RSS Gen. Issue 5
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity: 40% rH; Temperature: 20 °C
 Operator Name: TFra/PSt
 Operating Mode: mode 1 | DTS
 Verdict: Pass

EUT Information

PMT number: 22-1-01265S38_C01
 Power supply: 5 V DC



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)
326.750000	36.35	46.00	9.65	120.000	176.0	V	28.0	15.9	0.0	1.8
519.970000	35.92	46.00	10.08	120.000	201.0	V	8.0	20.8	0.0	2.3
605.110000	34.81	46.00	11.19	120.000	274.0	H	46.0	22.8	0.0	2.8

3.04a_RSE_Op2_chLow_standing

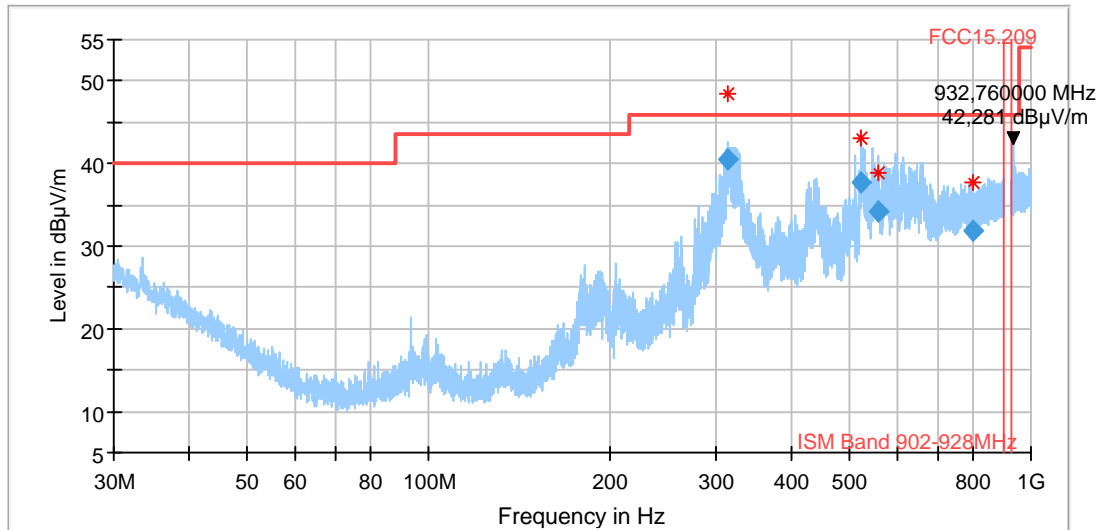
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: cetekom advanced GmbH Essen
 Test Standard: FCC 15.205&15.209 & RSS Gen. Issue 5
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity: 40% rH; Temperature: 20 °C
 Operator Name: ASa
 Operating Mode: mode 1 | DTS
 Verdict: Pass

EUT Information

PMT number: 22-1-01265S38_C01
 Power supply: 5 V DC



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)
313.890000	40.43	46.00	5.57	120.000	117.0	V	14.0	15.5	0.0	1.7
523.670000	37.67	46.00	8.33	120.000	157.0	H	185.0	21.0	0.0	2.3
559.190000	34.11	46.00	11.89	120.000	109.0	V	0.0	22.1	0.0	2.5
799.270000	31.77	46.00	14.23	120.000	151.0	H	24.0	25.5	0.0	3.1

3.04b_RSE_Op2_chLow_lying

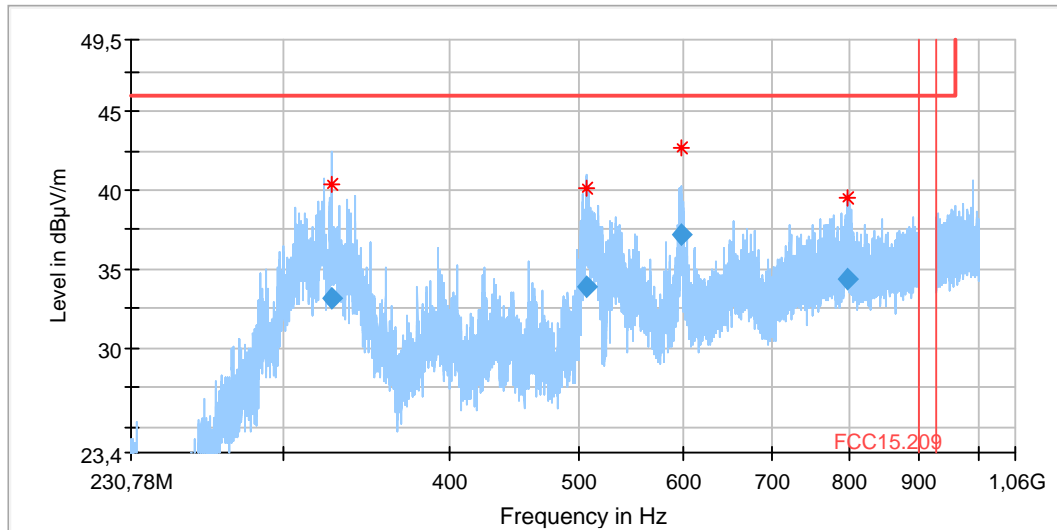
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: cetekom advanced GmbH Essen
 Test Standard: FCC 15.205&15.209 & RSS Gen. Issue 5
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity: 40% rH; Temperature: 20 °C
 Operator Name: TFra/PSt
 Operating Mode: mode 2 | DTS
 Verdict: Pass

EUT Information

PMT number: 22-1-01265S38_C01
 Power supply: 5 V DC



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)
326.430000	33.12	46.00	12.88	120.000	203.0	V	232.0	15.9	0.0	1.8
506.630000	33.90	46.00	12.10	120.000	183.0	H	1.0	20.1	0.0	2.4
597.790000	37.14	46.00	8.86	120.000	133.0	H	10.0	22.9	0.0	2.7
795.630000	34.41	46.00	11.59	120.000	162.0	H	265.0	25.5	0.0	3.1

3.05a_RSE_Op2_chMid_standing

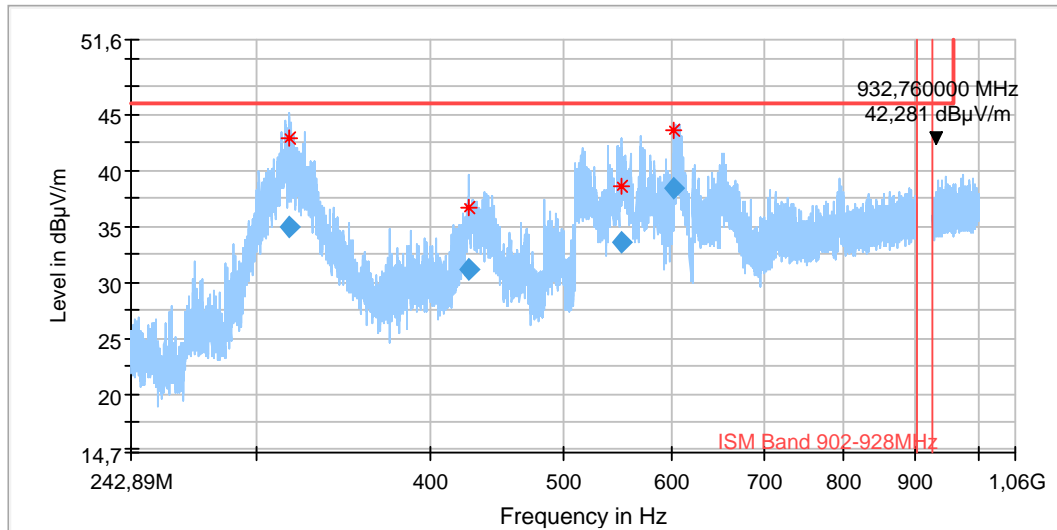
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: cetekom advanced GmbH Essen
 Test Standard: FCC 15.205&15.209 & RSS Gen. Issue 5
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity: 40% rH; Temperature: 20 °C
 Operator Name: TFra/PSt
 Operating Mode: mode 2 | DTS
 Verdict: Pass

EUT Information

PMT number: 22-1-01265S38_C01
 Power supply: 5 V DC



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)
316.430000	34.89	46.00	11.11	120.000	162.0	V	357.0	15.5	0.0	1.7
427.150000	31.21	46.00	14.79	120.000	128.0	V	0.0	20.0	0.0	2.1
550.470000	33.50	46.00	12.50	120.000	105.0	V	96.0	22.3	0.0	2.5
602.310000	38.29	46.00	7.71	120.000	170.0	V	273.0	22.9	0.0	2.7

3.05b_RSE_Op2_chMid_lying

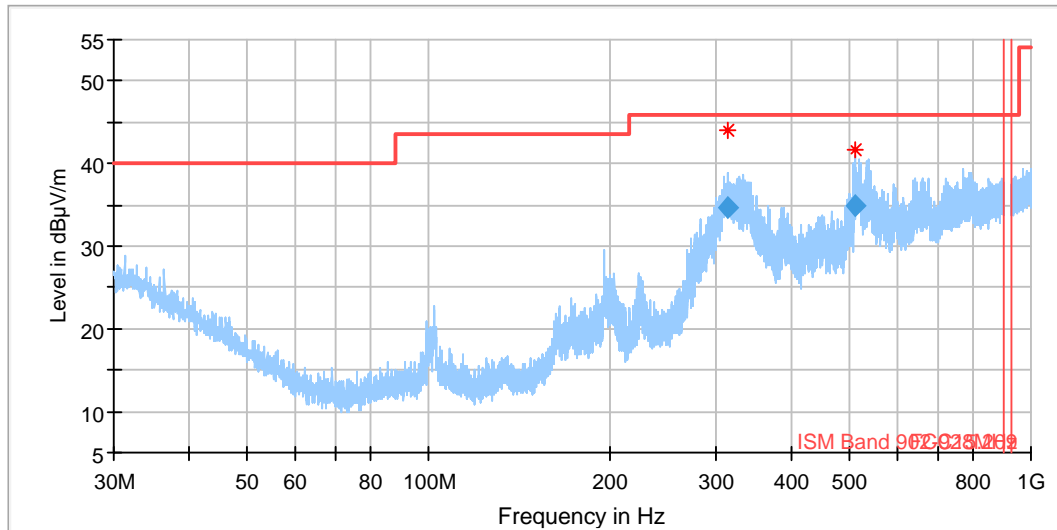
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: cetekom advanced GmbH Essen
 Test Standard: FCC 15.205&15.209 & RSS Gen. Issue 5
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity: 40% rH; Temperature: 20 °C
 Operator Name: TFra/PSt
 Operating Mode: mode 2 | DTS
 Verdict: Pass

EUT Information

PMT number: 22-1-01265S38_C01
 Power supply: 5 V DC



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)
313.910000	34.57	46.00	11.43	120.000	109.0	V	0.0	15.5	0.0	1.7
511.350000	34.83	46.00	11.17	120.000	208.0	V	12.0	20.4	0.0	2.4

3.06a_RSE_Op2_chHigh_standing

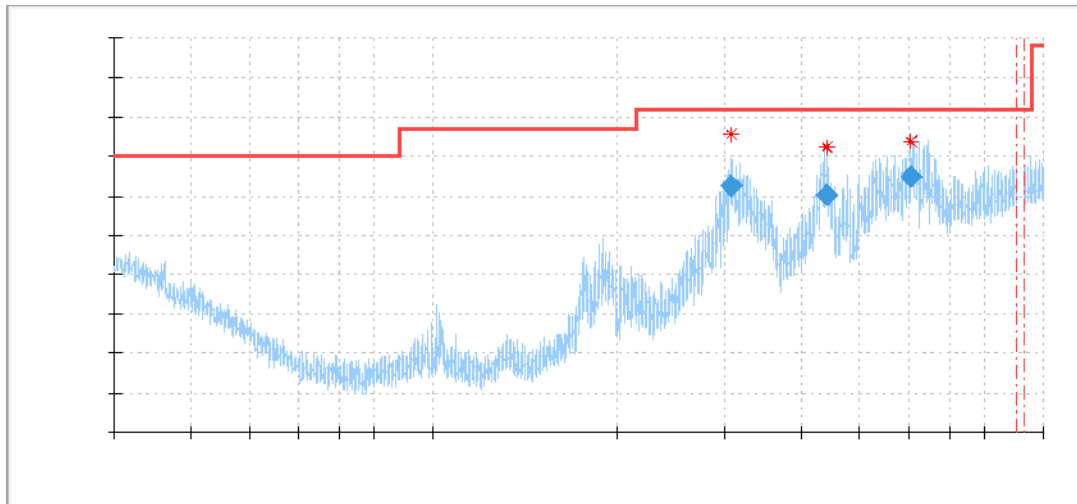
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: cetekom advanced GmbH Essen
 Test Standard: FCC 15.205&15.209 & RSS Gen. Issue 5
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity: 40% rH; Temperature: 20 °C
 Operator Name: TFra/PSt
 Operating Mode: mode 2 | DTS
 Verdict: Pass

EUT Information

PMT number: 22-1-01265S38_C01
 Power supply: 5 V DC



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Trd Corr. (dB)
306.3500	36.25	46.00	9.75	120.000	178.0	V	2.0	15.4	0.0	13.6
439.2900	35.09	46.00	10.91	120.000	120.0	V	221.0	20.1	0.0	17.9
605.9100	37.47	46.00	8.53	120.000	109.0	V	310.0	22.8	0.0	20.1

3.06b_RSE_Op2_chHigh_lying

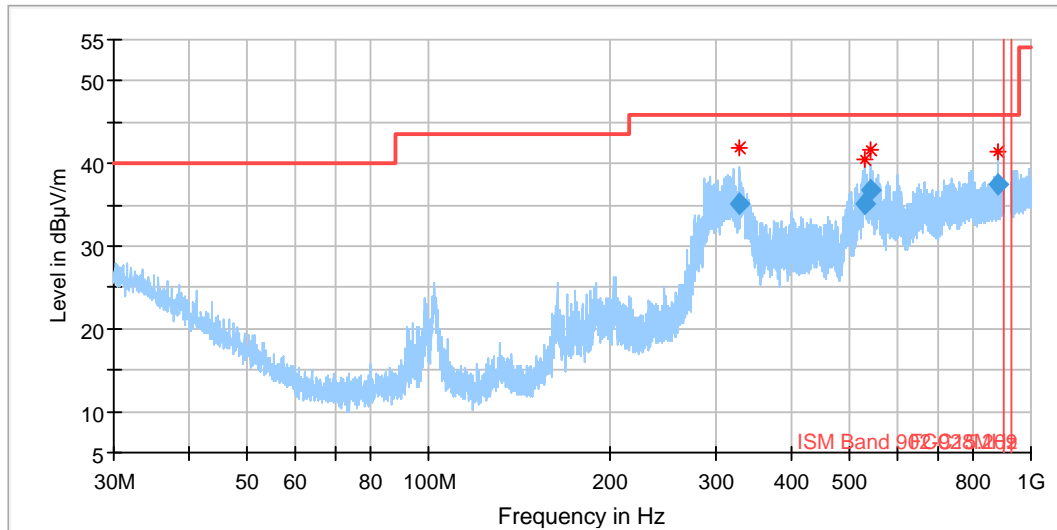
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: cetekom advanced GmbH Essen
 Test Standard: FCC 15.205&15.209 & RSS Gen. Issue 5
 Antenna polarisation: horizontal/vertical

 Environmental Conditions: Humidity: 40% rH; Temperature: 20 °C
 Operator Name: TFra/PSt
 Operating Mode: mode 2 | DTS
 Verdict: Pass

EUT Information

PMT number: 22-1-01265S38_C01
 Power supply: 5 V DC



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)
327.510000	35.05	46.00	10.95	120.000	214.0	V	195.0	16.0	0.0	1.8
531.510000	35.25	46.00	10.75	120.000	204.0	V	0.0	21.2	0.0	2.4
542.150000	36.83	46.00	9.17	120.000	105.0	V	302.0	21.9	0.0	2.5
882.970000	37.36	46.00	8.64	120.000	141.0	H	272.0	27.0	0.0	3.5

Radiated field strength emissions above 1 GHz

4.01_RSE_Op1_chLow

Common Information

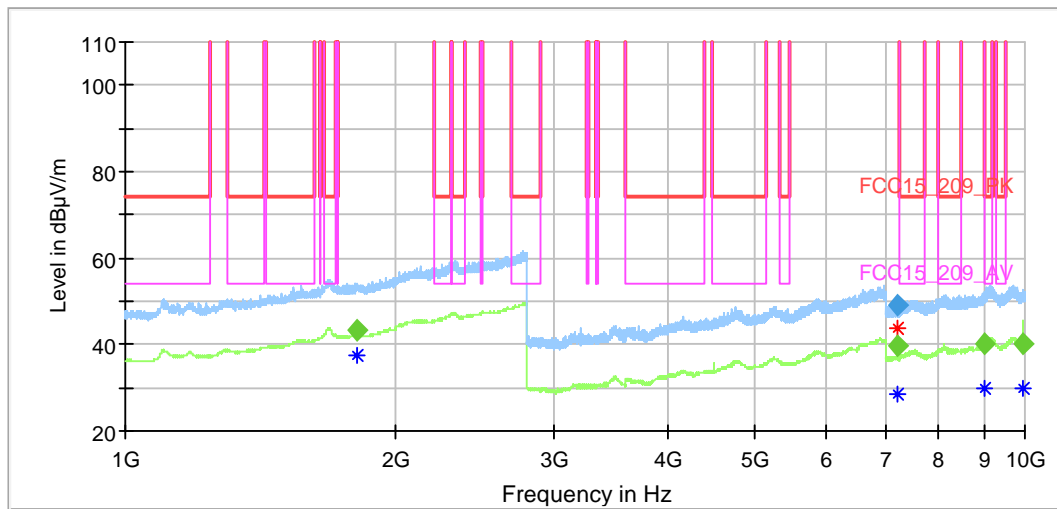
Test Description: Radiated field strength emission in 3m distance
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
 Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
 Antenna polarisation: horizontal/vertical

Operating Mode: TX, continuous
 Set-up no. 1
 Operator: TFra/MAA
 Comment: 903MHz, 500 KHz ,s12
 Environmental Conditions: Humidity : 60% rH; Temperature: 20 °C
 Verdict: Passed

EUT Information

PMT Sample Nr: 22-1-01265S38_C01
 Power Supply: 5 V DC

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)
1806.210000	---	43.10	150.00	106.90	100.0	1000.000	155.0	V	-2.0	90.0
7223.690000	49.12	---	150.00	100.88	100.0	1000.000	155.0	V	222.0	90.0
7224.330000	---	39.75	150.00	110.25	100.0	1000.000	155.0	V	26.0	90.0
9028.170000	---	39.93	54.00	14.07	100.0	1000.000	155.0	V	314.0	90.0
9931.690000	---	40.15	150.00	109.85	100.0	1000.000	155.0	V	323.0	90.0

4.02_RSE_Op1_chMid

Common Information

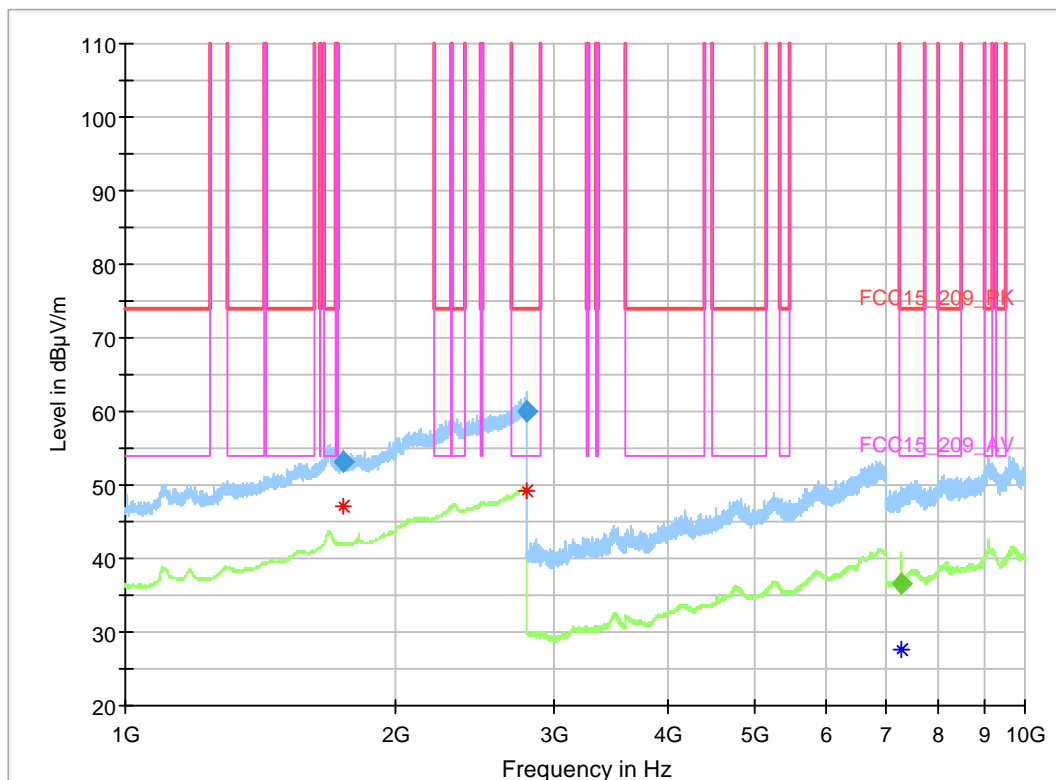
Test Description: Radiated field strength emission in 3m distance
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
 Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
 Antenna polarisation: horizontal/vertical

 Operating Mode: TX, continuous
 Set-up no. 1
 Operator: TFra/MAA
 Comment: 909,4 MHz, 125 KHz ,s12
 Environmental Conditions: Humidity : 60% rH; Temperature: 20 °C
 Verdict: Passed

EUT Information

PMT Sample Nr: 22-1-01265S38_C01
 Power Supply: 5 V DC

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)
1750.010000	53.25	---	150.00	96.75	100.0	1000.000	155.0	V	285.0	0.0
2798.370000	60.01	---	74.00	13.99	100.0	1000.000	155.0	H	248.0	0.0
7275.370000	---	36.64	54.00	17.36	100.0	1000.000	155.0	V	313.0	90.0

4.03_RSE_Op1_chHigh

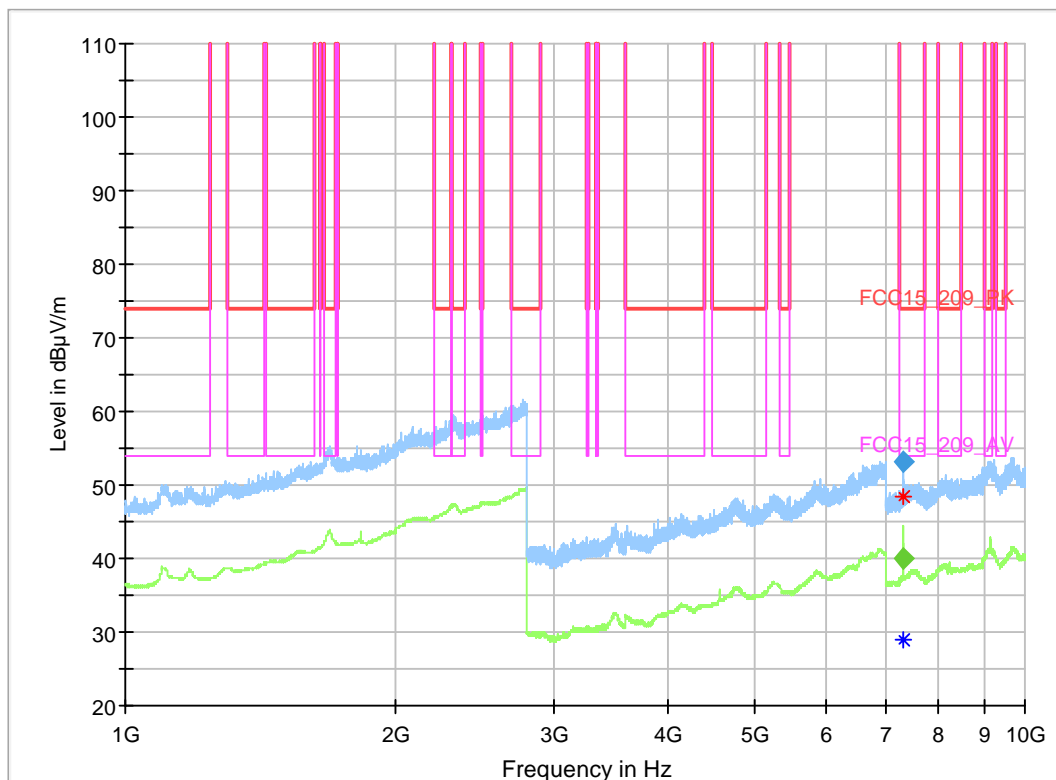
Common Information

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:	TX, continuous
Set-up no.	1
Operator:	TFra/Maa
Comment:	914,2 MHz, 500KHz ,s12
Environmental Conditions:	Humidity : 60% rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

PMT Sample Nr:	22-1-01265S38_C01
Power Supply:	5 V DC

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)
7311.890000	53.04	---	74.00	20.96	100.0	1000.000	155.0	V	29.0	90.0
7314.050000	---	40.00	54.00	14.00	100.0	1000.000	155.0	V	29.0	90.0

4.04_RSE_Op2_chLow

Common Information

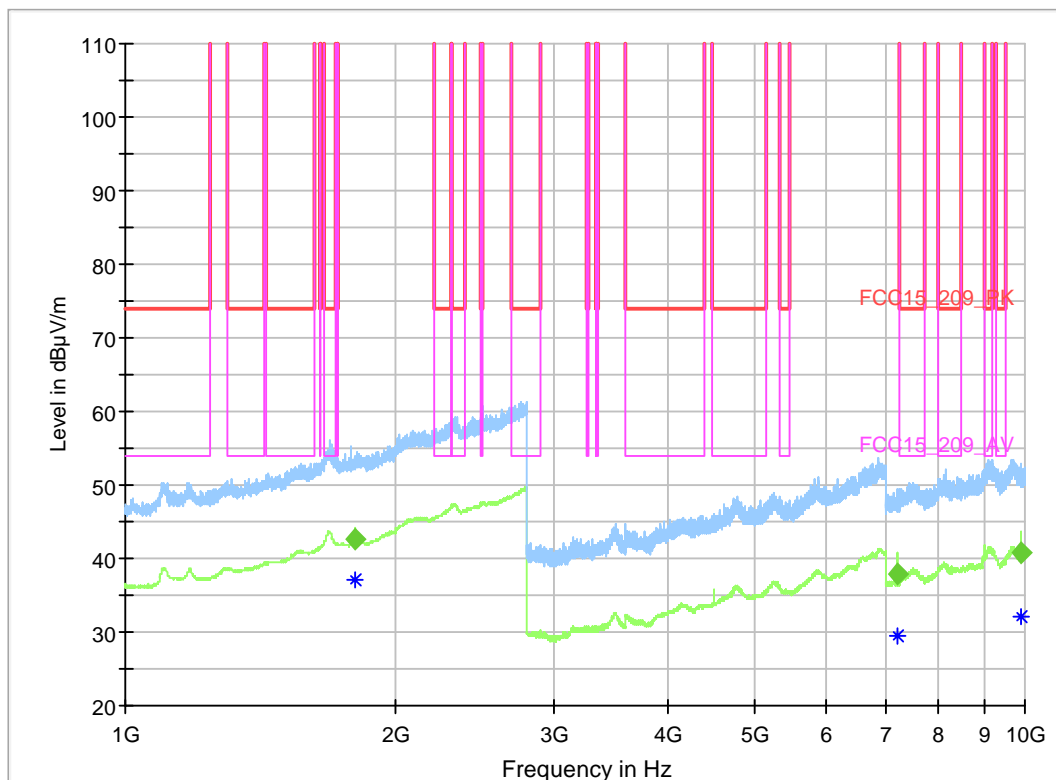
Test Description: Radiated field strength emission in 3m distance
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
 Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
 Antenna polarisation: horizontal/vertical

 Operating Mode: TX, continuous
 Set-up no. 1
 Operator: TFra/MAA
 Comment: 902,3MHz, 125 KHz ,s07
 Environmental Conditions: Humidity : 60% rH; Temperature: 20 °C
 Verdict: Passed

EUT Information

PMT Sample Nr: 22-1-01265S38_C01
 Power Supply: 5 V DC

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)
1804.730000	---	42.74	150.00	107.26	100.0	1000.000	155.0	H	120.0	0.0
7218.490000	---	38.02	150.00	111.98	100.0	1000.000	155.0	V	215.0	90.0
9924.930000	---	40.80	150.00	109.20	100.0	1000.000	155.0	V	324.0	90.0

4.05_RSE_Op2_chMid

Common Information

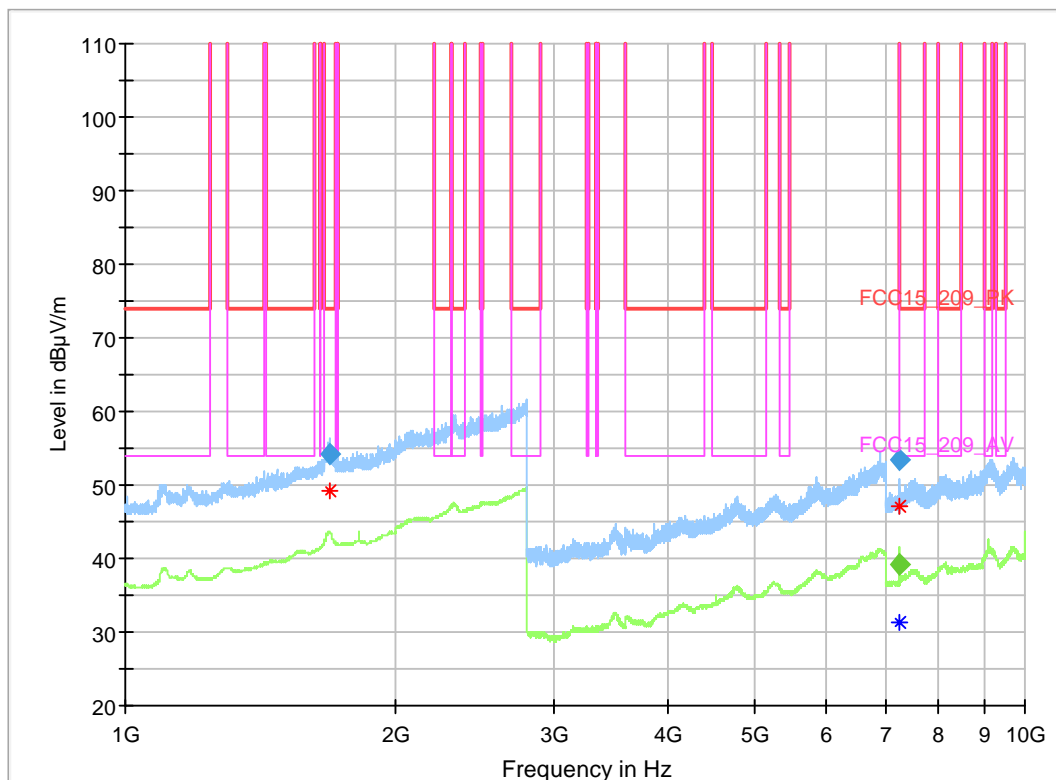
Test Description: Radiated field strength emission in 3m distance
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
 Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
 Antenna polarisation: horizontal/vertical

 Operating Mode: TX, continuous
 Set-up no. 1
 Operator: TFra/MAA
 Comment: 908,7 MHz, 125 KHz ,s07
 Environmental Conditions: Humidity : 60% rH; Temperature: 20 °C
 Verdict: Passed

EUT Information

PMT Sample Nr: 22-1-01265S38_C01
 Power Supply: 5 V DC

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)
1690.490000	54.31	---	74.00	19.69	100.0	1000.000	155.0	V	17.0	0.0
7269.610000	---	39.30	54.00	14.70	100.0	1000.000	155.0	V	20.0	90.0
7269.770000	53.43	---	74.00	20.57	100.0	1000.000	155.0	V	20.0	90.0

4.06_RSE_Op2_chHigh

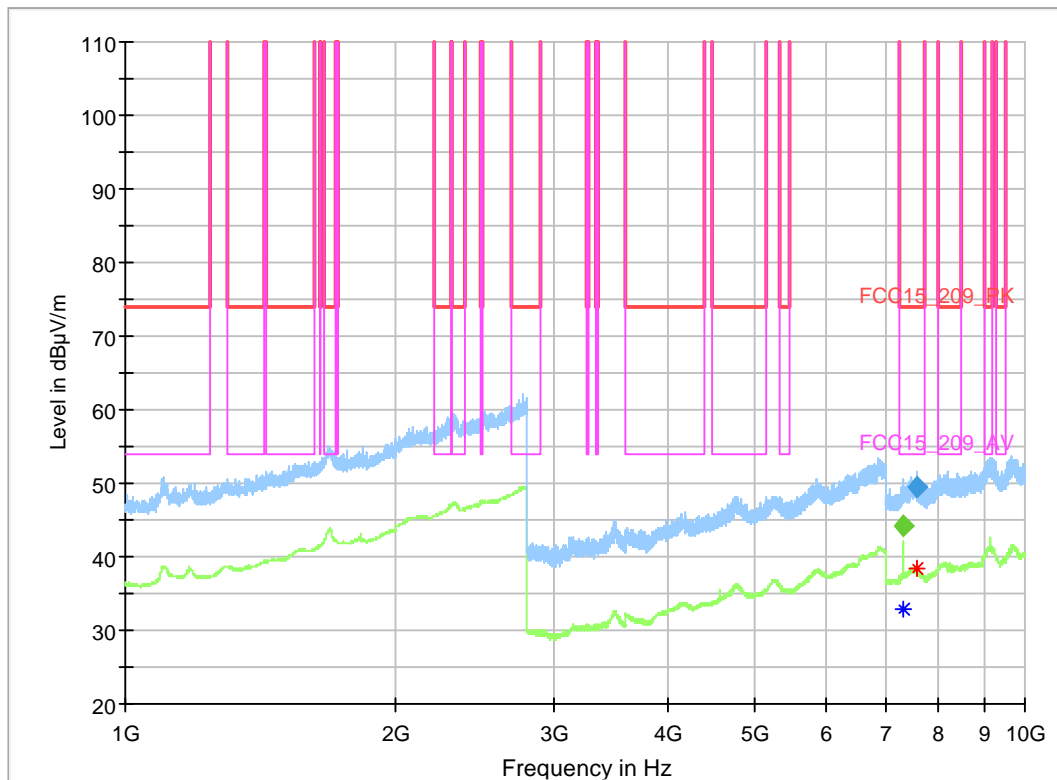
Common Information

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: TX, continuous
 Set-up no. 1
 Operator: TFra/MAA
 Comment: 914,9 MHz, 125 KHz ,s07
 Environmental Conditions: Humidity : 60% rH; Temperature: 20 °C
 Verdict: Passed

EUT Information

PMT Sample Nr: 22-1-01265S38_C01
 Power Supply: 5 V DC

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)
7319.090000	---	44.30	54.00	9.70	100.0	1000.000	155.0	V	28.0	90.0
7576.490000	49.39	---	74.00	24.61	100.0	1000.000	155.0	H	123.0	90.0

End Of Annex 1

