

Annex 1: Measurement diagrams 24-1-0023901T001-TR1-A201-R01

Number of pages:	15	Date of Report:	2024-Sep-30
Testing company:	cetecom advanced GmbH Untertuerkheimer Str. 6-10 66117 Saarbruecken GERMANY	Applicant:	Infinite Play B.V.
Product: Model:	Electronic Toy Picoo One		
FCC ID:	FCC ID: 2BEZJ-P1 Contains FCC ID: X8WBT840F	IC:	n/a
Testing has been carried out in accordance with:	CFR Title 47,Chapter I, Subchapter A Part 15 Radio frequency devices § 15.225 Operation within the band 13.110-14.010 MHz.		

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1 Measurement diagrams

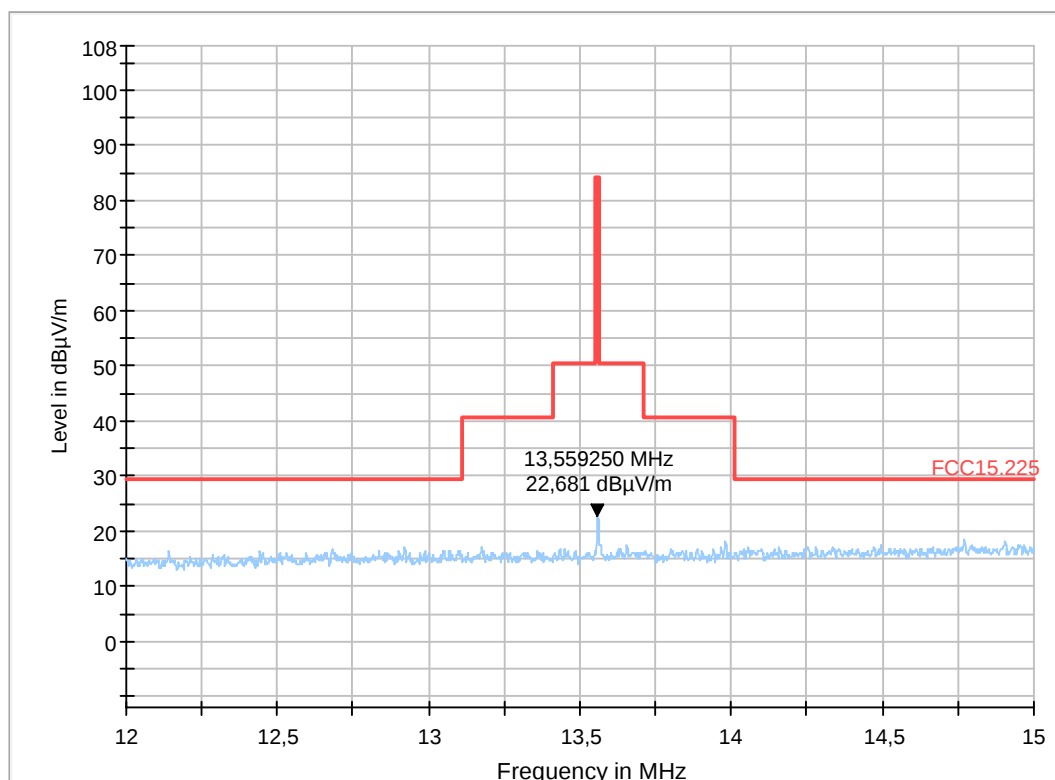
1.1 Magnetic field strength – carrier mask §15.255(a)(b)(c)

2.01_H_Field_TX_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 V10.60.20
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	ASa
Operating Mode:	TX_standing
Power during tests:	full loaded batteries
Environmental Conditions:	Humidity: 44% rH; Temperature: 20.2 °C
EUT Setup:	1
Verdict:	Passed

Full Spectrum

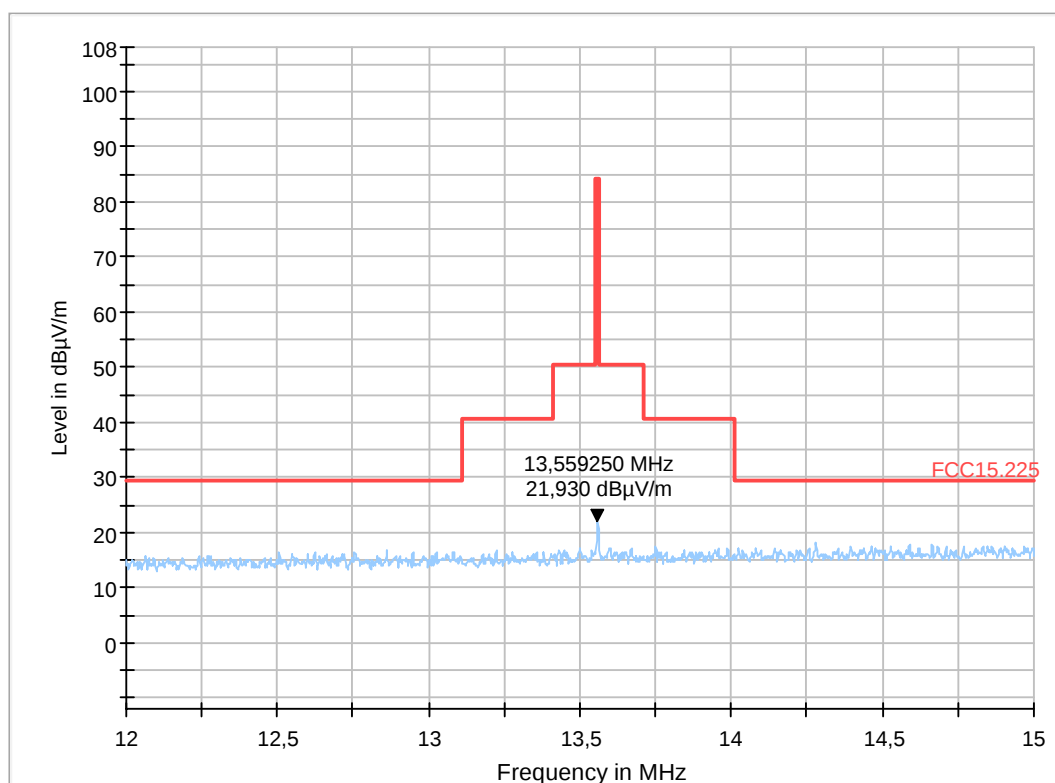


2.02_H_Field_TXMod_standing

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 V10.60.20
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	ASa
Operating Mode:	H_Field_TXMod_standing
Power during tests:	full loaded batteries
Environmental Conditions:	Humidity: 44% rH; Temperature: 20.2 °C
EUT Setup:	1
Verdict:	Passed

Full Spectrum

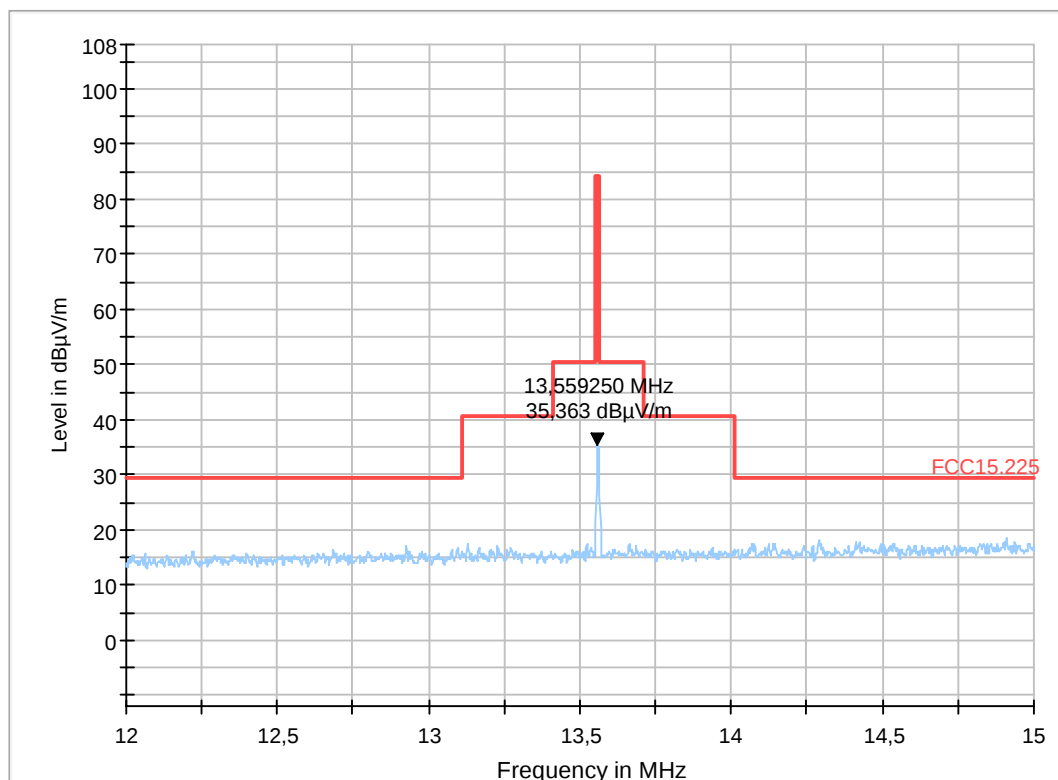


2.03_H_Field_TX_laying

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 V10.60.20
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	ASa
Operating Mode:	TX_Laying
Power during tests:	full loaded batteries
Environmental Conditions:	Humidity: 44% rH; Temperature: 20.2 °C
EUT Setup:	1
Verdict:	Passed

Full Spectrum

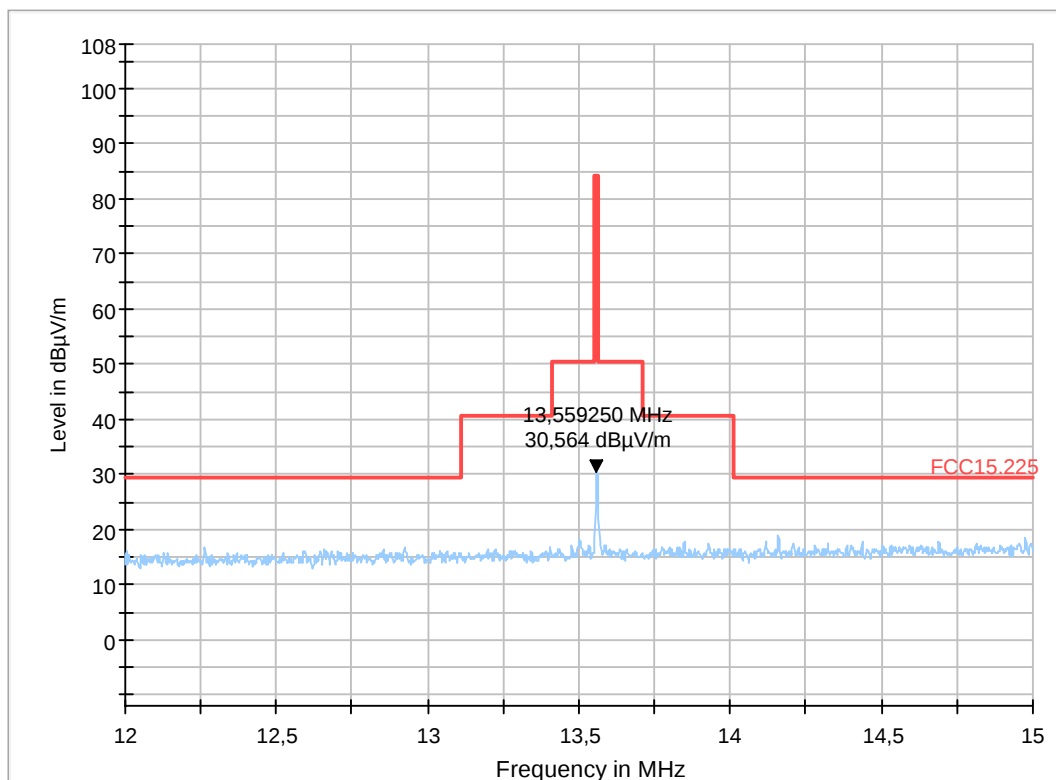


2.04_H_Field_TXMod_laying

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 V10.60.20
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	ASa
Operating Mode:	H_Field_TXMod_laying
Power during tests:	full loaded batteries
Environmental Conditions:	Humidity: 44% rH; Temperature: 20.2 °C
EUT Setup:	1
Verdict:	Passed

Full Spectrum



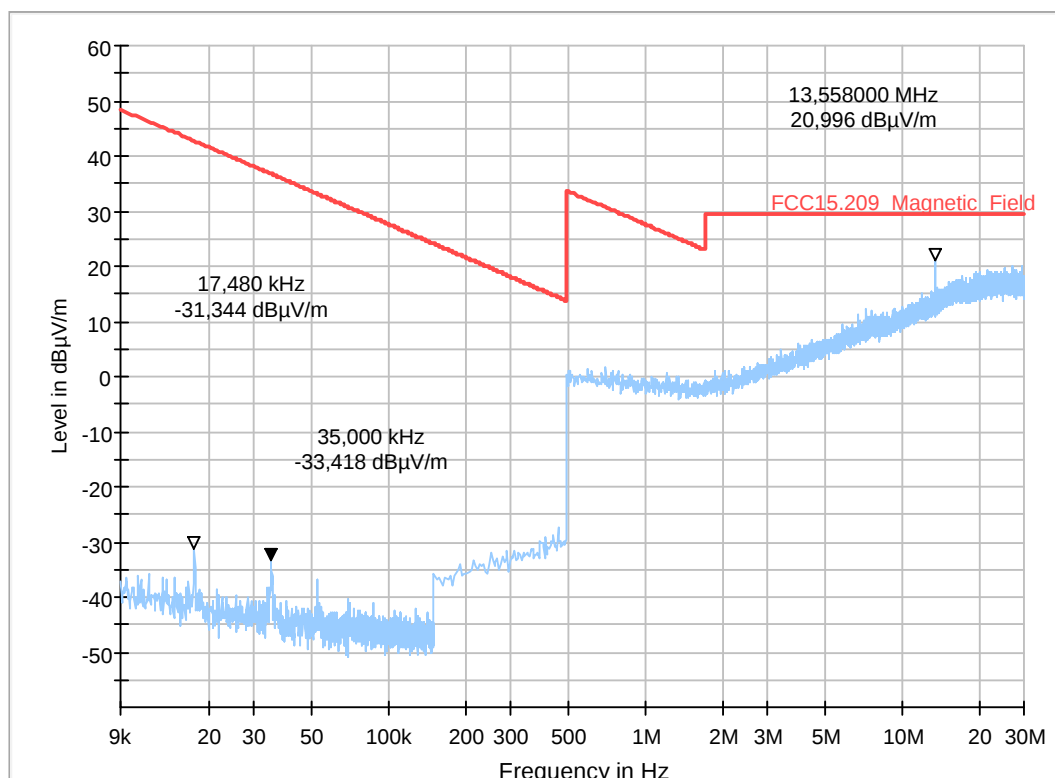
1.2 Spurious emissions ($9\text{kHz} \leq f \leq 30\text{MHz}$)

2.05a_RSE_TX_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 V10.60.20
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	ASa
Operating Mode:	RSE_TX_laying
Power during tests:	full loaded batteries
Environmental Conditions:	Humidity: 44% rH; Temperature: 20.2 °C
EUT Setup:	1
Verdict:	Passed

Full Spectrum

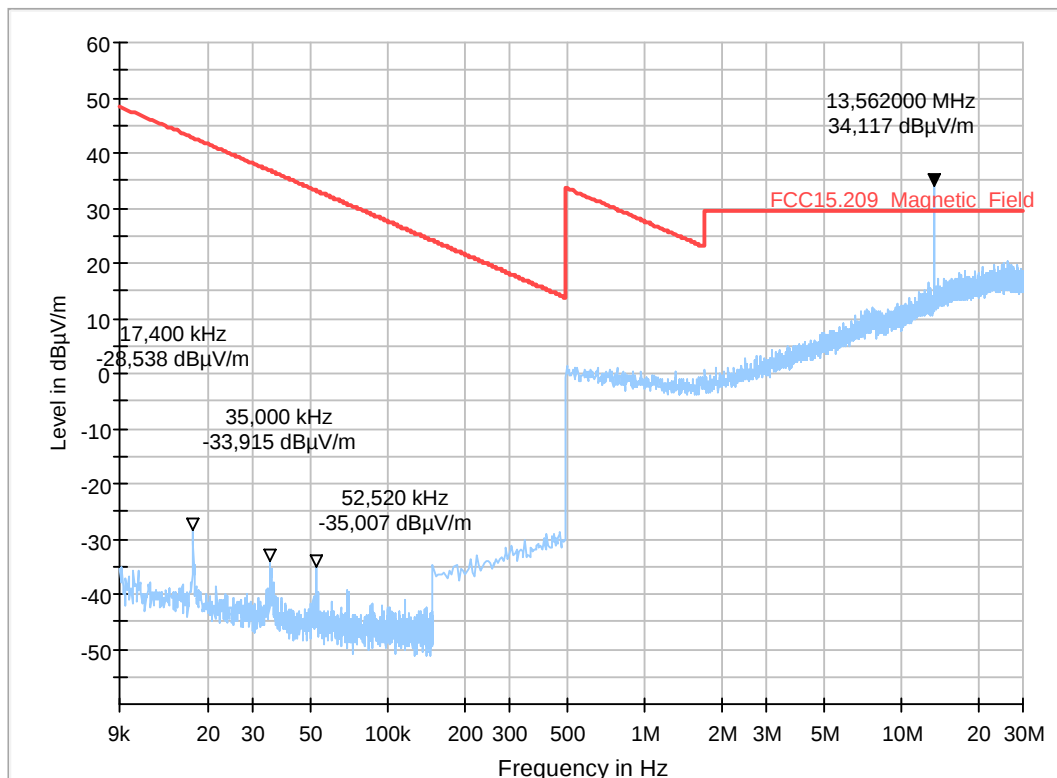


2.05b_RSE_TX_laying

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 V10.60.20
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	ASa
Operating Mode:	RSE_TX_laying
Power during tests:	full loaded batteries
Environmental Conditions:	Humidity: 44% rH; Temperature: 20.2 °C
EUT Setup:	1
Verdict:	Passed

Full Spectrum

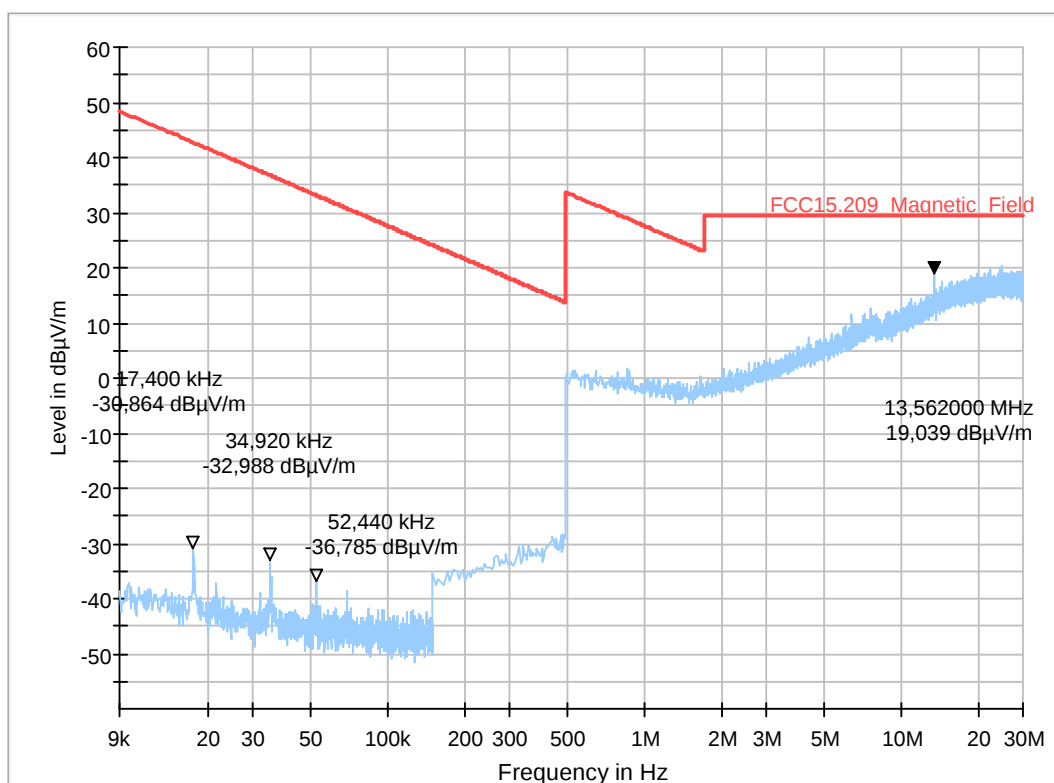


2.06a_RSE_TXMod_standing

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 V10.60.20
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	ASa
Operating Mode:	RSE_TXMod_Standing
Power during tests:	full loaded batteries
Environmental Conditions:	Humidity: 44% rH; Temperature: 20.2 °C
EUT Setup:	1
Verdict:	Passed

Full Spectrum

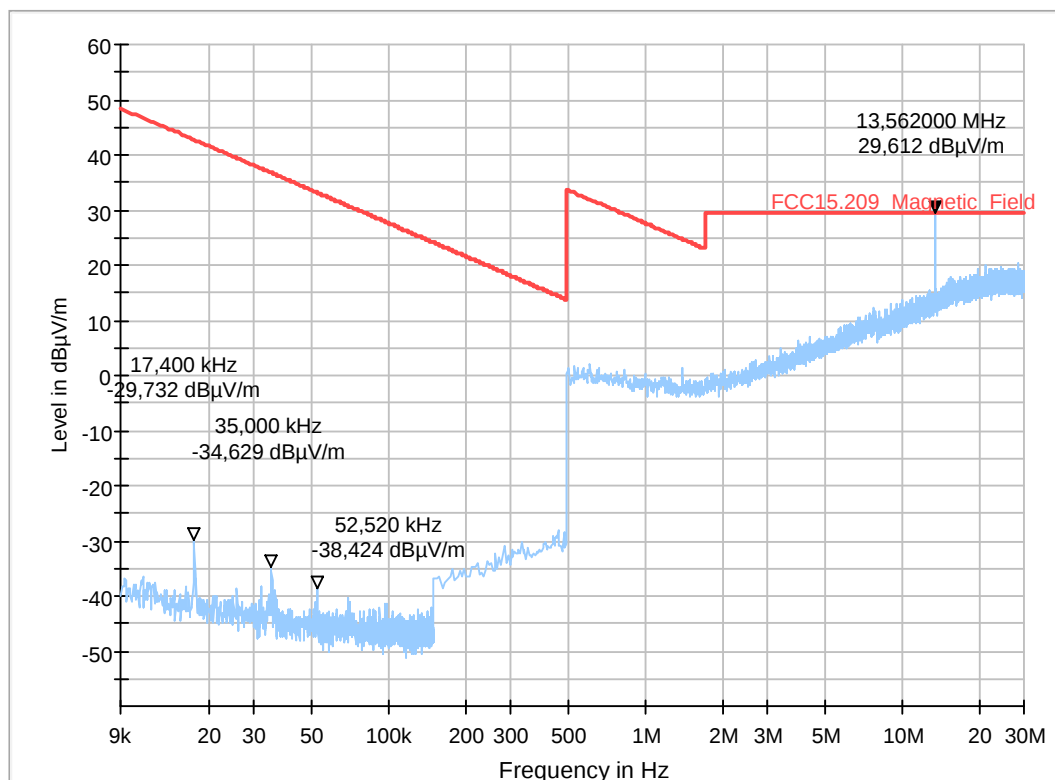


2.06b_RSE_TXMod_laying

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 V10.60.20
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	ASa
Operating Mode:	RSE_TXMod_laying
Power during tests:	full loaded batteries
Environmental Conditions:	Humidity: 44% rH; Temperature: 20.2 °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
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1.3 Spurious emissions ($30\text{MHz} \leq f \leq 1\text{GHz}$)

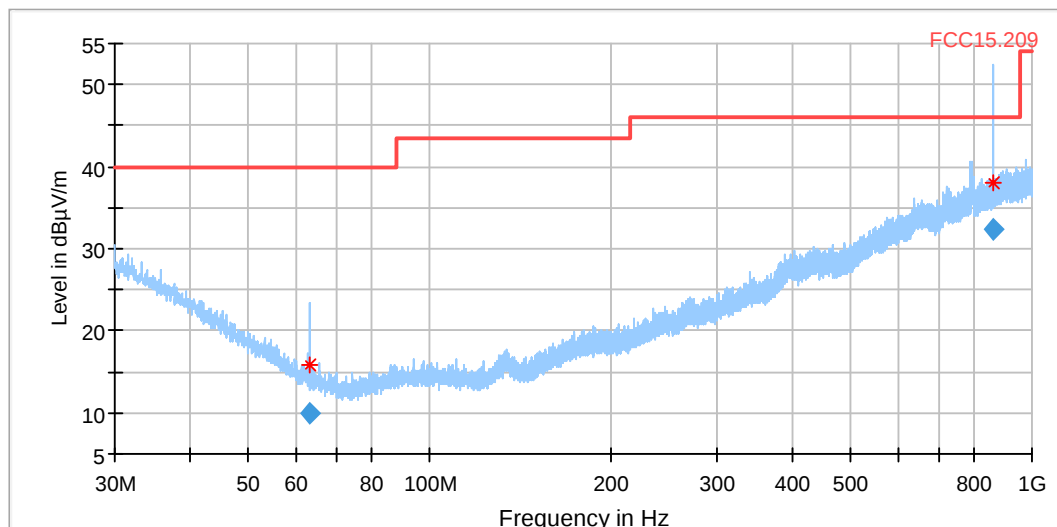
3.01a_RSE_TXCV_laying

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: 49%rH; Temperature: 22.8C
Operator Name:	PSt
EUT:	1
Operating Mode:	TX_CW
Comment:	Channel nominal
Verdict:	Passed

EUT Information

PMT number:	24-1-00239S05_C01
Power:	internal battery



Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)
63.186000	9.99	40.00	30.01	120.000	128.0	H	94.0	7.2	0.0
861.606000	32.30	46.00	13.70	120.000	139.0	H	0.0	26.7	0.0

(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBµV)	Comment
63.186000	0.8	6.4	2.8	19:12:13 - 09.07.2024
861.606000	3.3	23.4	5.6	19:07:08 - 09.07.2024

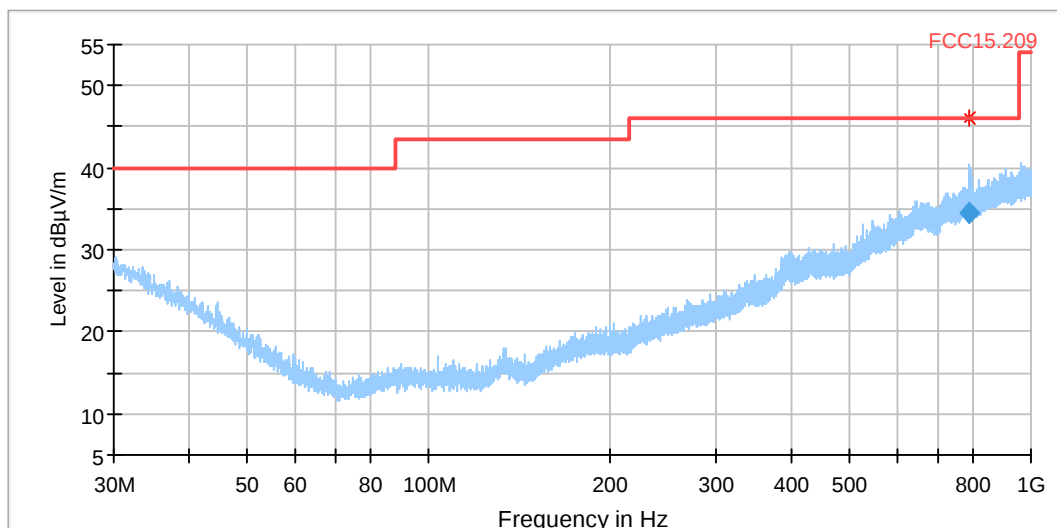
3.01a_RSE_TXCV_standing

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: 49%rH; Temperature: 22.8C
Operator Name:	ASa
EUT:	1
Operating Mode:	TX
Comment:	Channel nominal
Verdict:	Passed

EUT Information

PMT number:	24-1-00239S05_C01
Power:	internal battery



Final_Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)
791.594000	34.56	46.00	11.44	120.000	172.0	H	269.0	25.6	0.0

(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Preamplifier (dB)	Trd Corr. (dB/m)	Raw Rec (dBµV)	Comment
791.594000	3.1	22.5	9.0	18:19:52 - 09.07.2024

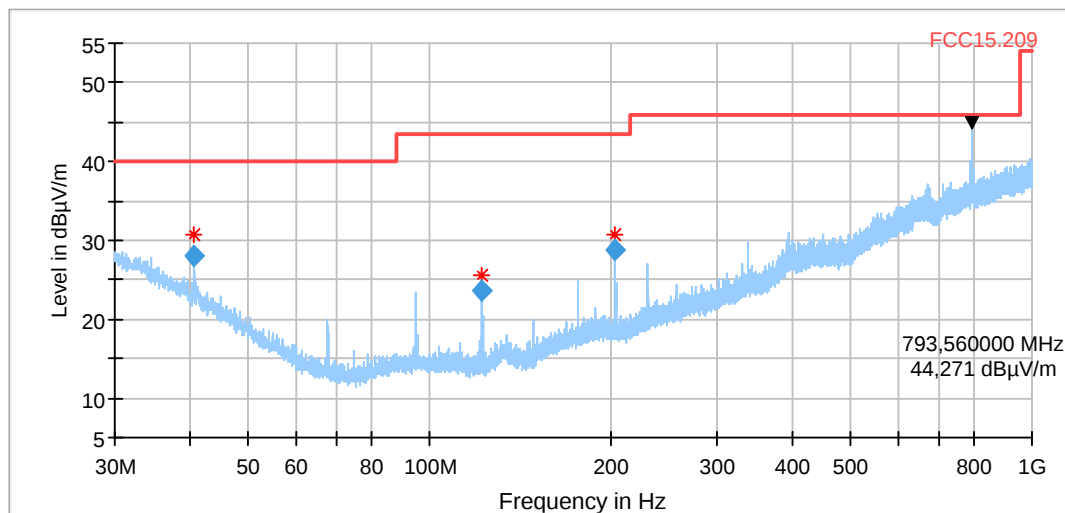
3.02a_RSE_TXMod_standing

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: 49%rH; Temperature: 22.8C
Operator Name:	PSt
EUT:	1
Operating Mode:	TX_MOD
Comment:	Channel nominal
Comment 2:	External @793MHz
Verdict:	Passed

EUT Information

PMT number:	24-1-00239S05_C01
Power:	internal battery



793MHz – external interferer

Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)
40.678000	27.93	40.00	12.07	120.000	272.0	H	65.0	16.2	0.0
122.042000	23.74	43.50	19.76	120.000	178.0	H	154.0	7.3	0.0
203.402000	28.81	43.50	14.69	120.000	149.0	H	241.0	11.1	0.0

(continuation of the "Final Result" table from column 17 ...)

Frequency (MHz)	Preamplifier (dB)	Trd Corr. (dB/m)	Raw Rec (dBµV)	Comment
40.678000	0.6	15.6	11.7	20:03:31 - 09.07.2024
122.042000	1.0	6.3	16.4	20:09:04 - 09.07.2024
203.402000	1.4	9.7	17.8	19:58:27 - 09.07.2024

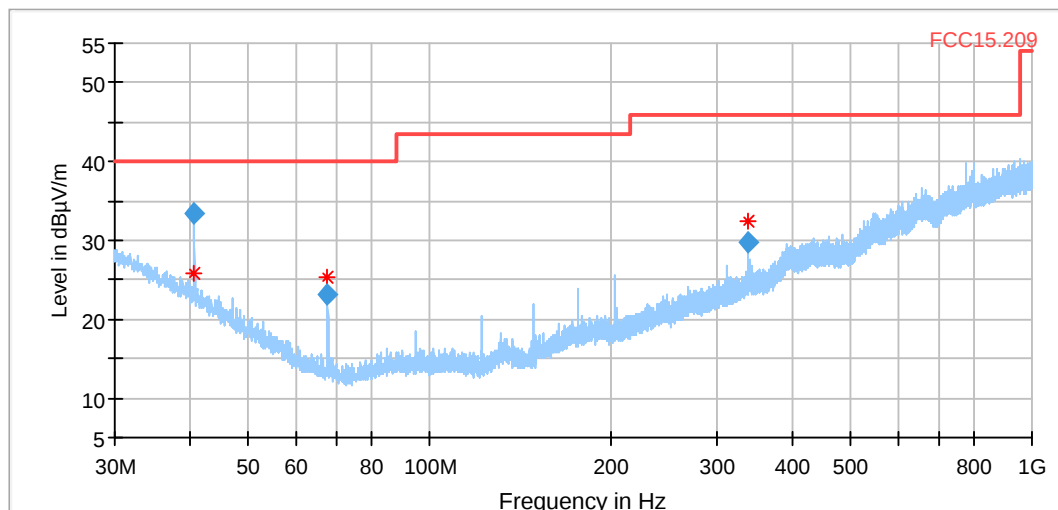
3.02b_RSE_TXMod_laying

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: 49%rH; Temperature: 22.8C
Operator Name:	PSt
EUT:	1
Operating Mode:	TX_MOD
Comment:	Channel nominal
Comment 2:	External @793MHz
Verdict:	Passed

EUT Information

PMT number:	24-1-00239S05_C01
Power:	internal battery



Final_Result

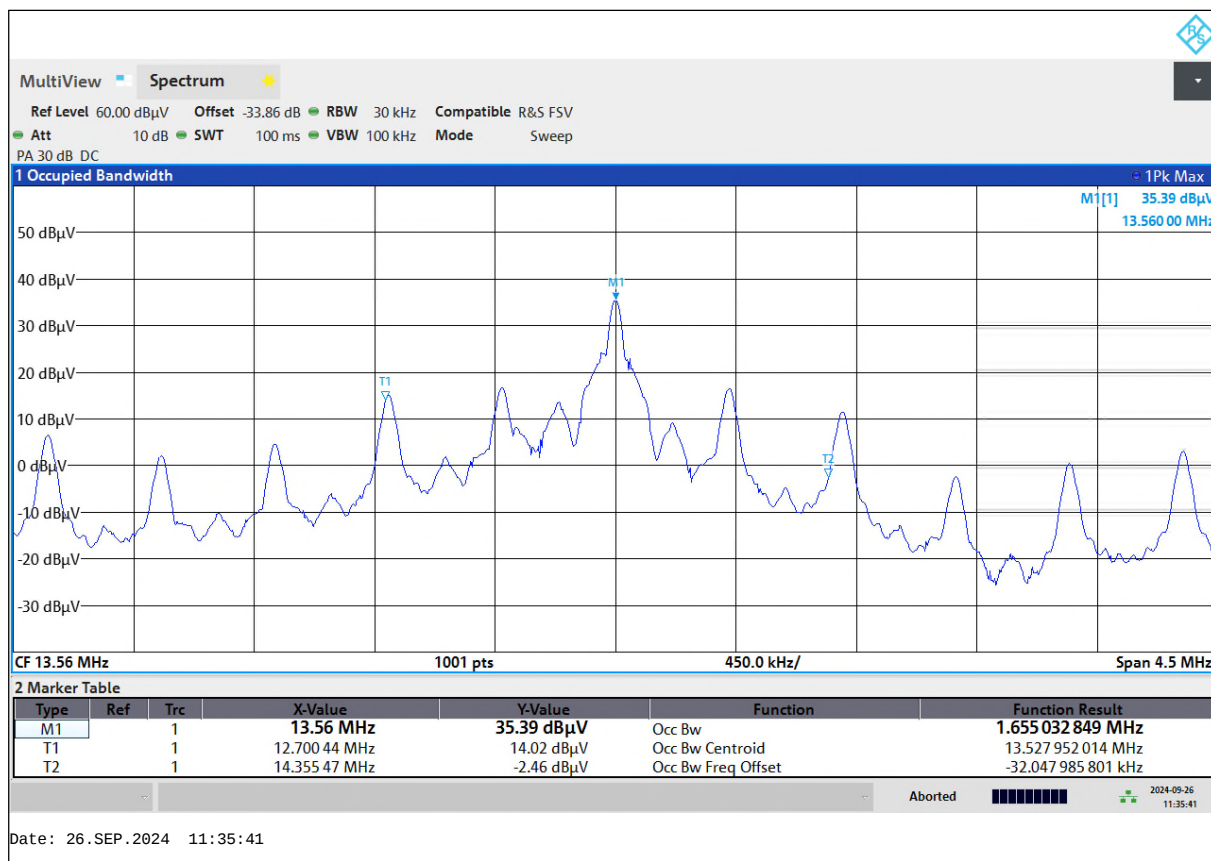
Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)
40.682000	33.49	40.00	6.51	120.000	182.0	H	84.0	16.2	0.0
67.802000	23.08	40.00	16.92	120.000	329.0	H	206.0	6.5	0.0
339.002000	29.72	46.00	16.28	120.000	100.0	H	261.0	16.7	0.0

(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Preamp (dB)	Trd Corr. (dB/m)	Raw Rec (dBµV)	Comment
40.682000	0.6	15.6	17.3	21:12:45 - 09.07.2024
67.802000	0.8	5.7	16.6	21:30:27 - 09.07.2024
339.002000	1.9	14.8	13.0	21:25:37 - 09.07.2024

1.4 Occupied 99% bandwidth

TID100



BW measured: 1.655MHz

End Of Annex 201