

Annex 1: Measurement diagrams 19-1-0130001T15a-A1

Number of pages:	10	Date of Report:	2021-Jul-13
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:	ORTOVOX Sportartikel GmbH
Product: Model:	Avalanche Transceiver DIRECT VOICE		
FCC ID:	KF5DIR1	IC:	26906-DIR1
Testing has been carried out in accordance with:	Title 47 CFR, Chapter I FCC Regulations, Subchapter A: §15.209 RSS-Gen, Issue 5 Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		



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1 Measurement diagrams

1.1 Radiated emission field strength 9 kHz to 30 MHz

Diagram No. 2.01a_RSE_TX_BT+SRD_lying

Test description:	Electric Field Strength Measurement related to 3m distance
Test site and distance:	Semi Anechoic Chamber (SAC5) with 8m measurement distance
Test Location:	CETECOM GmbH Düsseldorf
Version of Testsoftware:	EMC32 V10.0.0
Test specification:	FCC15.209 / RSS-Gen Issue 5
Distance correction:	8 m to 3 m
Operating Mode:	BT+SRD
EUT:	S08_C01
Power during test:	Battery
Operator:	GHu
Comment:	

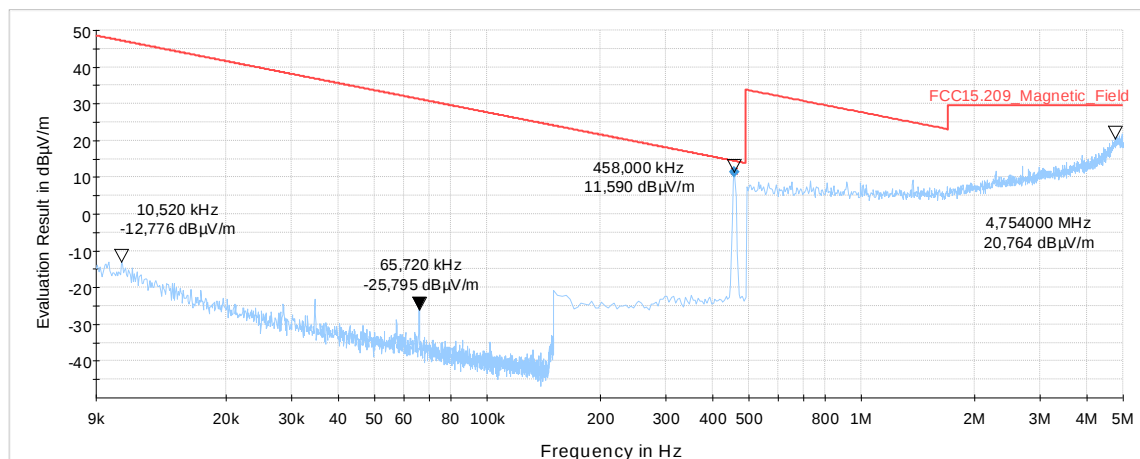


Diagram No. 2.01b_RSE_TX_BT+SRD_lying

Test description:	Electric Field Strength Measurement related to 3m distance
Test site and distance:	Semi Anechoic Chamber (SAC5) with 3 m measurement distance
Test Location:	CETECOM GmbH Essen
Version of Testsoftware:	EMC32 V10.0.0
Test specification:	FCC15.209 / RSS-Gen Issue 5
Distance correction:	-
Operating Mode:	BT+SRD
EUT:	S08_C01
Power during test:	Battery
Operator:	GHu
Comment:	

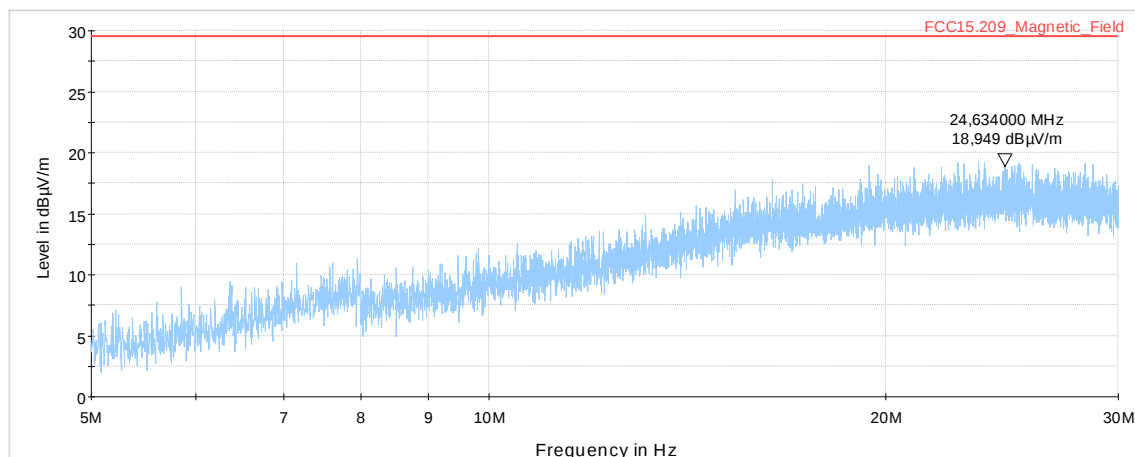


Diagram No. 2.02a_RSE_TX_BT+SRD_standing

Test description:	Electric Field Strength Measurement related to 3m distance
Test site and distance:	Semi Anechoic Chamber (SAC5) with 8 m measurement distance
Test Location:	CETECOM GmbH Düsseldorf
Version of Testsoftware:	EMC32 V10.0.0
Test specification:	FCC15.209 / RSS-Gen Issue 5
Distance correction:	8 m to 3 m
Operating Mode:	BT+SRD
EUT:	S08_C01
Power during test:	Battery
Operator:	GHu
Comment:	

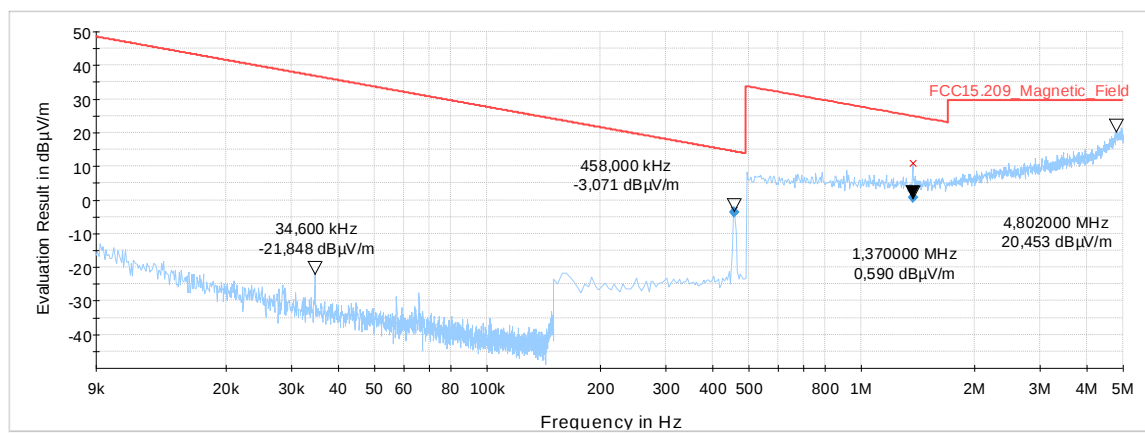
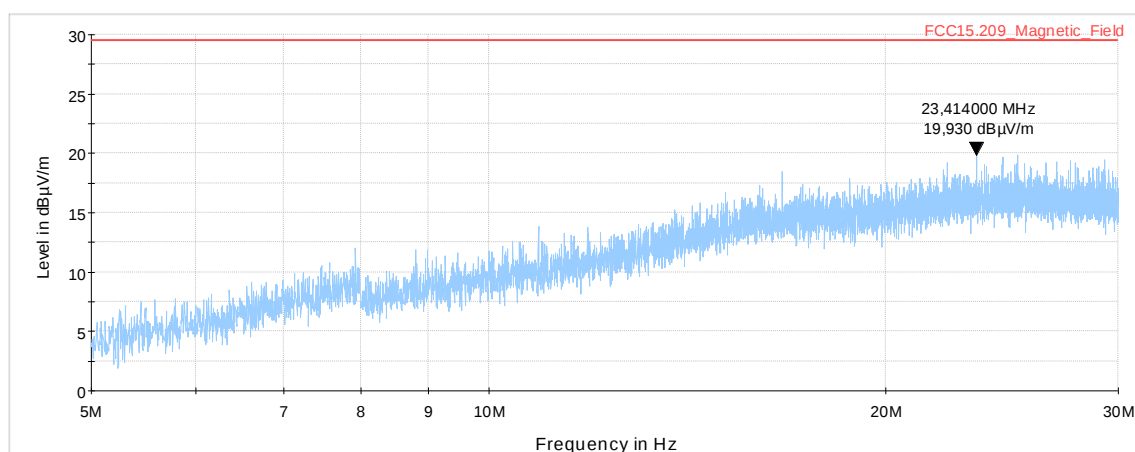


Diagram No. 2.02b_RSE_TX_BT+SRD_standing

Test description:	Electric Field Strength Measurement related to 3m distance
Test site and distance:	Semi Anechoic Chamber (SAC5) with 3 m measurement distance
Test Location:	CETECOM GmbH Essen
Version of Testsoftware:	EMC32 V10.0.0
Test specification:	FCC15.209 / RSS-Gen Issue 5
Distance correction:	-
Operating Mode:	BT+SRD
EUT:	S08_C01
Power during test:	Battery
Operator:	GHu
Comment:	

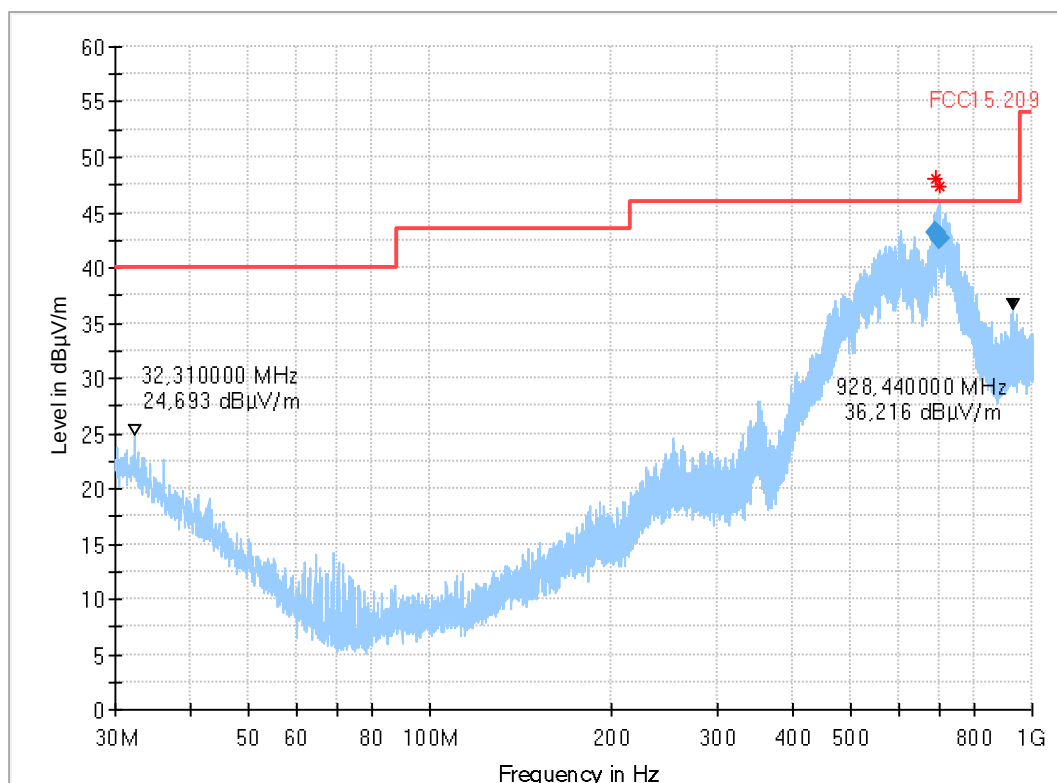


1.2 Radiated emission field strength 30 MHz to 1 GHz

Diagram No. 3.07_RSE_TX_BT+SRD_lying

Test description:	Electric Field Strength Measurement related to 3m distance
Test site and distance:	Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Test Location:	CETECOM GmbH Essen
Version of Testsoftware:	EMC32 V10.0.0
Test specification:	FCC15.209 / RSS-Gen Issue 5
Distance correction:	-
Operating Mode:	BT+SRD
EUT:	S32_C01
Power during test:	Battery
Operator:	GHu
Comment:	

Full Spectrum



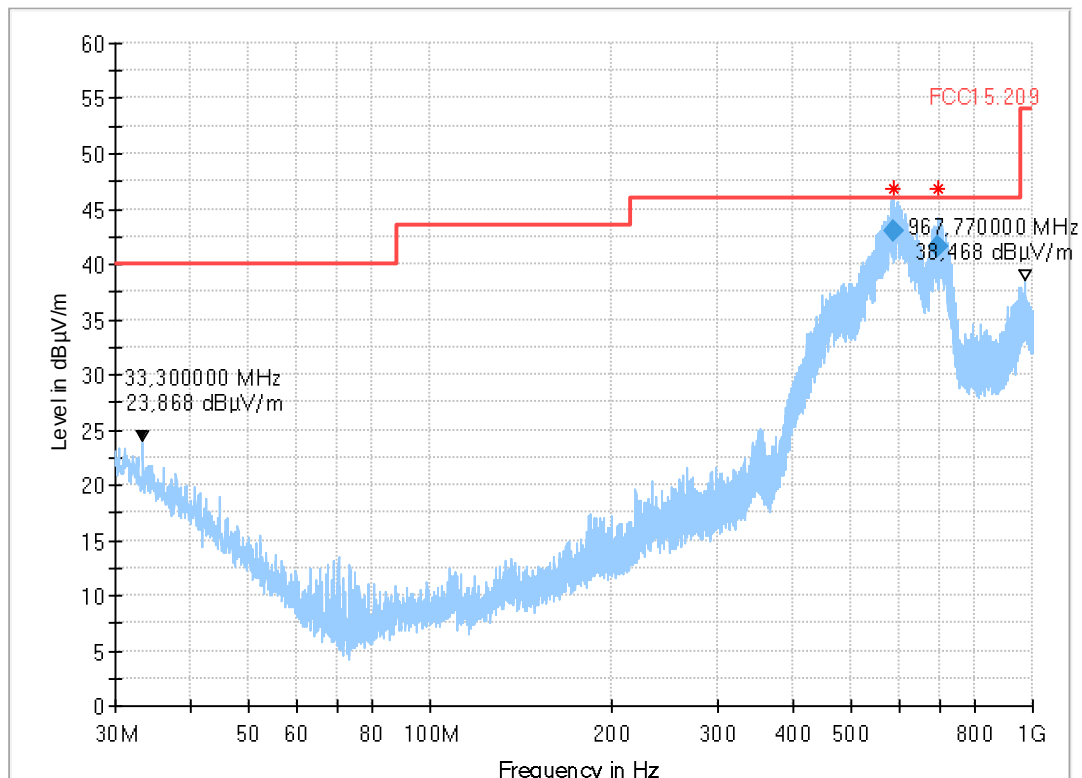
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Pre-amp (dB)	Trd Corr. (dB/m)	Raw Rec (dBµV)
689.999000	43.20	46.00	2.80	120.000	116.0	H	108.0	23.5	0.0	2.8	20.7	19.7
699.085000	42.67	46.00	3.33	120.000	121.0	H	104.0	23.7	0.0	2.8	20.9	19.0

Diagram No. 3.08_RSE_TX_BT+SRD_standing

Test description:	Electric Field Strength Measurement related to 3m distance
Test site and distance:	Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Test Location:	CETECOM GmbH Essen
Version of Testsoftware:	EMC32 V10.0.0
Test specification:	FCC15.209 / RSS-Gen Issue 5
Distance correction:	-
Operating Mode:	BT+SRD
EUT:	S32_C01
Power during test:	Battery
Operator:	GHu
Comment:	

Full Spectrum



Final Result

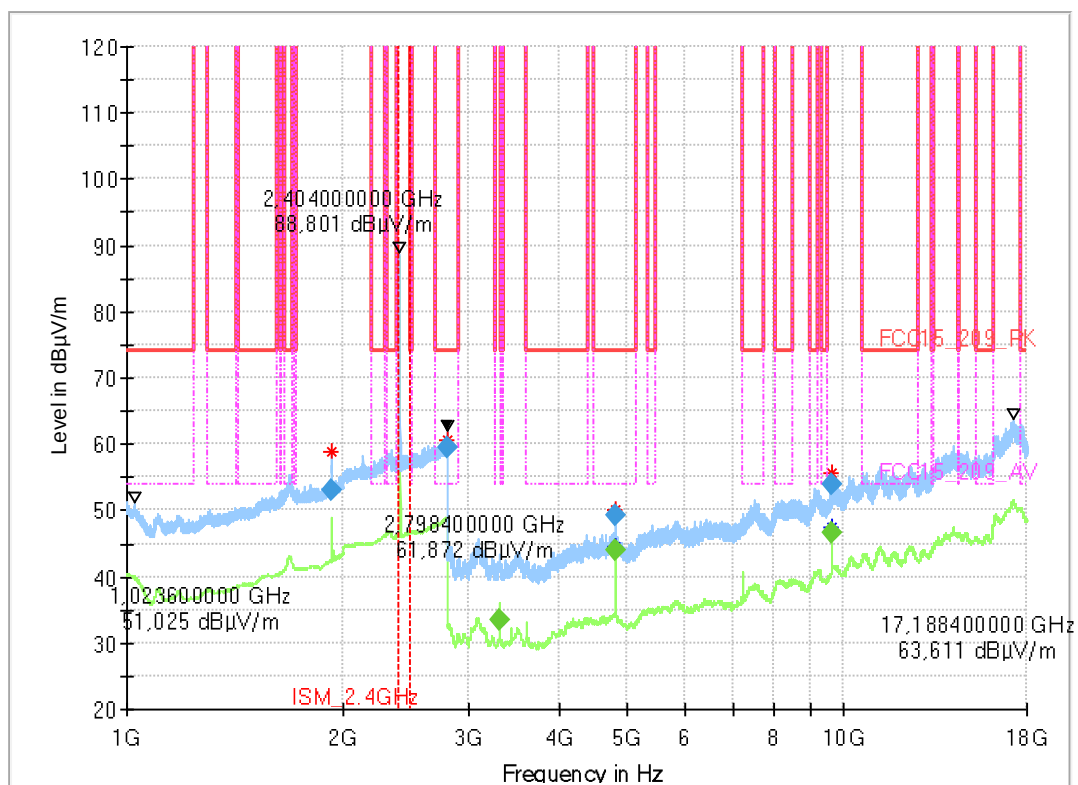
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth h (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Pre-amp (dB)	Trd Corr. (dB/m)	Raw Rec (dBµV)
587.99900	42.98	46.00	3.02	120.000	105.0	V	70.0	21.9	0.0	2.6	19.3	21.1
698.52300	41.60	46.00	4.40	120.000	161.0	V	45.0	23.6	0.0	2.8	20.8	18.0

1.3 Radiated emission field strength 1 GHz to 26 GHz

Diagram No. 8.03_RSE_1-18GHz_TX_BT+SRD

Test description:	Electric Field Strength Measurement related to 3m distance
Test site and distance:	Fully Anechoic Chamber (FAC1) with 3 m measurement distance
Test Location:	CETECOM GmbH Essen
Version of Testsoftware:	EMC32 V10.0.0
Test specification:	FCC15.209 / RSS-Gen Issue 5
Distance correction:	-
Operating Mode:	BT+SRD
EUT:	S08_C01
Power during test:	Battery
Operator:	GHu
Comment:	

Full Spectrum

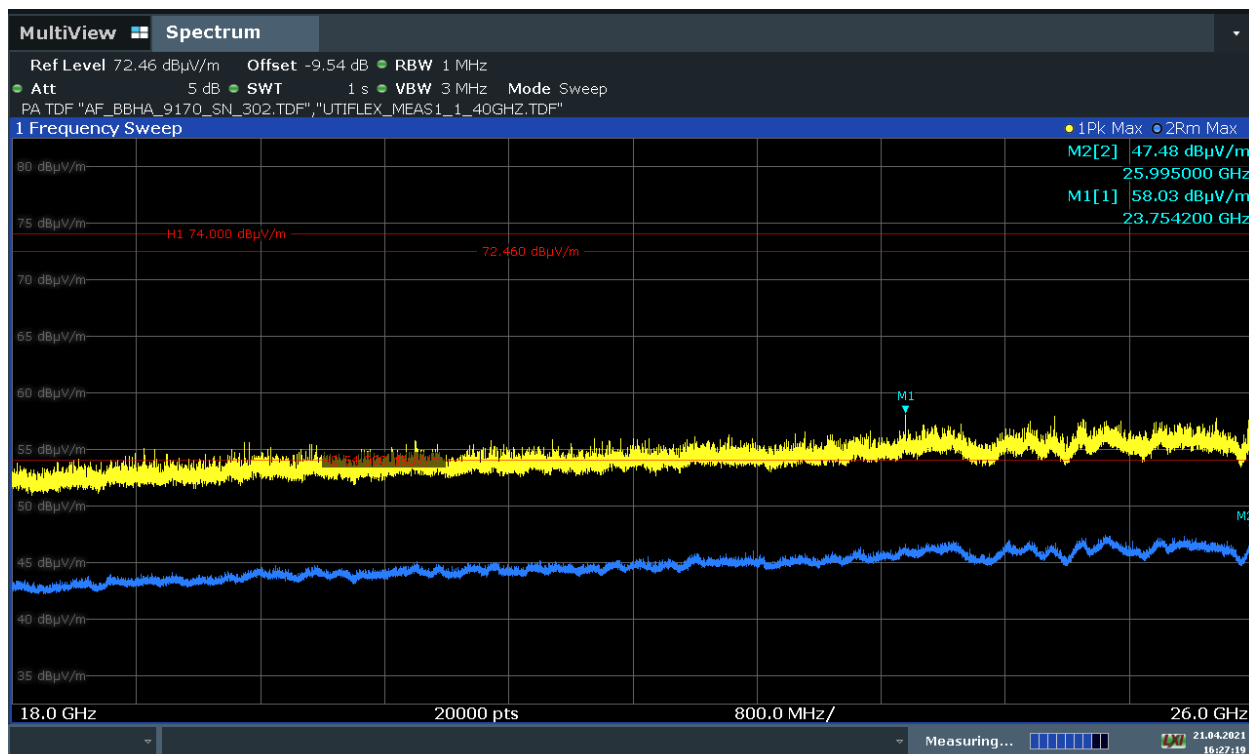


Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth h	Height t	Pol	Azimuth h	Elevation	Corr. (dB/m)
1926.400000	53.14	---	150.00	96.87	100.0	1000.000	155.0	V	186.0	90.0	34
2798.400000	59.41	---	74.00	14.59	100.0	1000.000	155.0	V	225.0	90.0	39
3312.400000	---	33.40	150.00	116.60	100.0	1000.000	155.0	V	275.0	0.0	2
4808.000000	---	43.93	54.00	10.07	100.0	1000.000	155.0	H	266.0	0.0	6
4808.000000	49.21	---	74.00	24.79	100.0	1000.000	155.0	H	269.0	0.0	6
9616.400000	54.04	---	150.00	95.96	100.0	1000.000	155.0	H	84.0	0.0	16
9616.400000	---	46.67	150.00	103.33	100.0	1000.000	155.0	H	82.0	0.0	16

Diagram No. 9.01_RSE_18-26GHz_TX_BT+SRD

Test description:	Electric Field Strength Measurement related to 3m distance
Test site and distance:	Fully Anechoic Chamber (FAC2) with 3 m measurement distance
Test Location:	CETECOM GmbH Essen
Version of Testsoftware:	-
Test specification:	FCC15.209 / RSS-Gen Issue 5
Distance correction:	-
Operating Mode:	BT+SRD
EUT:	S08_C01
Power during test:	Battery
Operator:	GHu
Comment:	



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End of Annex 1