

Annex 1: Measurement diagrams

24-1-0032801T007-TR1-A201-R01

Number of pages:	9	Date of Report:	2024-Sep-06
Testing company:	cetecom advanced GmbH Untertuerkheimer Str. 6-10 66117 Saarbruecken GERMANY	Applicant:	WITTE-Velbert GmbH & Co.KG
Product: Model:	Automotive NFC Outer Door Handle EDH2507		
FCC ID:	V2T-EDH2507	IC:	7575A-EDH2507
		PMN:	EDH2507
		HVIN:	EDH2507
Testing has been carried out in accordance with:	FCC Regulations Title 47 CFR, Chapter I, Subchapter A, Part 15 Subpart C Intentional Radiators, Radiated Emission Limits, Additional Provisions § 15.225 Operation within the band 13.110-14.010 MHz ISED-Regulations Radio Standards Specification RSS-Gen, Issue 5 General Requirements for Compliance of Radio Apparatus RSS-210, Issue 11 Licence-Exempt Radio Apparatus: Category I Equipment Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		

Measurement diagrams

2.01_H-Field_TX_standing

Common Information

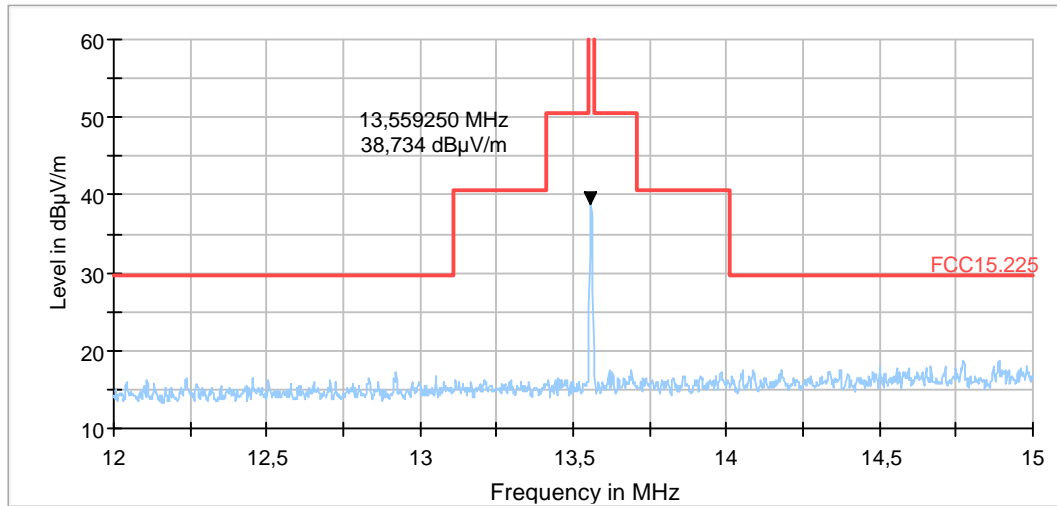
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please 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:	TFra
Operating Mode:	TX
Environmental Conditions:	Humidity: 54%rH; Temperature: 21°C
EUT Setup:	1 - standing
Verdict:	Passed

EUT Information

PMT Number:	24-1-00328S02_C01
Power supply:	12 V DC – Lead Acid Car Battery

Full Spectrum



2.02_H-Field_TX_lying

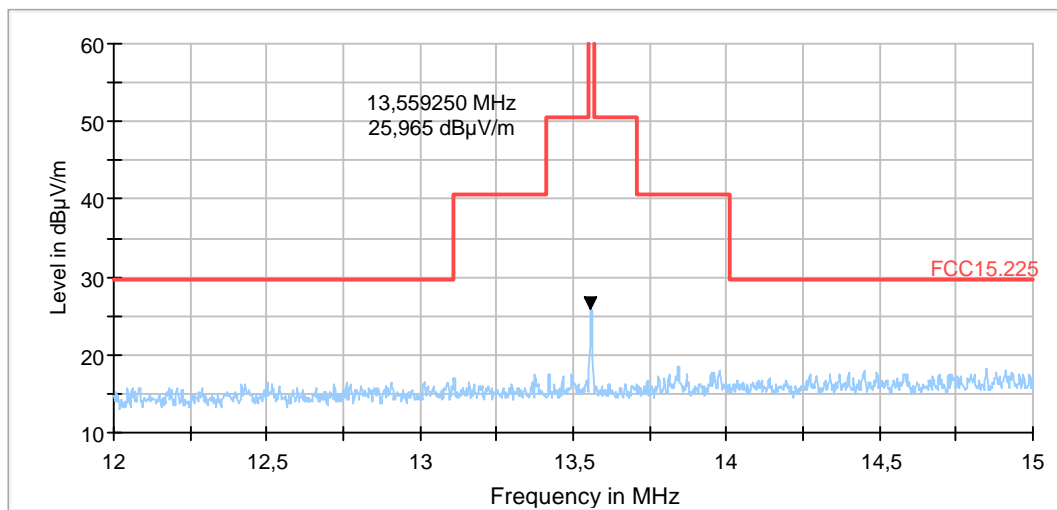
Common Information

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 V10.60.20
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:	TFra
Operating Mode:	TX
Environmental Conditions:	Humidity: 54%rH; Temperature: 21°C
EUT Setup:	1 - lying
Verdict:	Passed

EUT Information

PMT Number:	24-1-00328S02_C01
Power supply:	12 V DC – Lead Acid Car Battery

Full Spectrum



2.04_H-Field_TXRX_standing

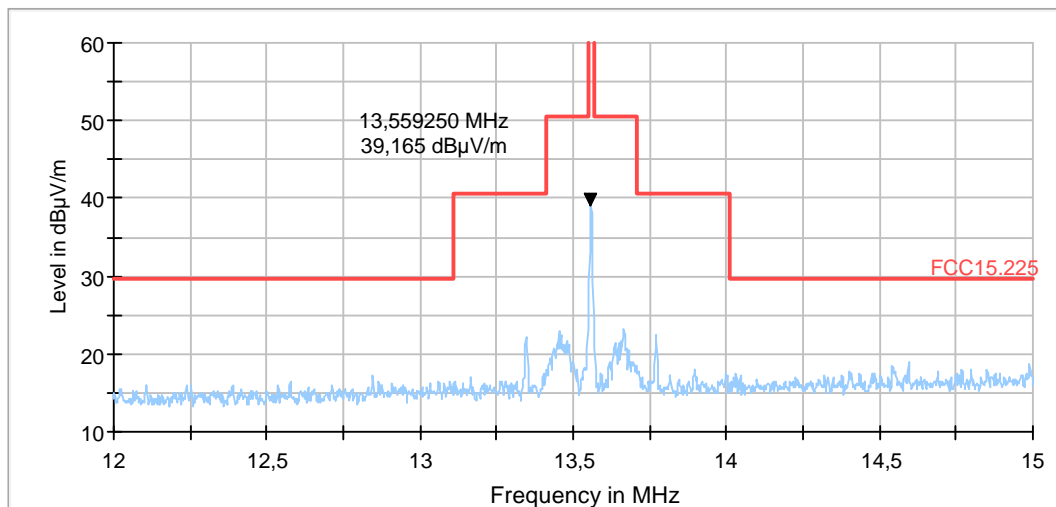
Common Information

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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:	TFra
Operating Mode:	TXRX
Environmental Conditions:	Humidity: 54%rH; Temperature: 21°C
EUT Setup:	1 - standing
Verdict:	Passed

EUT Information

PMT Number:	24-1-00328S03_C01
Power supply:	12 V DC – Lead Acid Car Battery

Full Spectrum



2.05_RSE_TXRX_standing

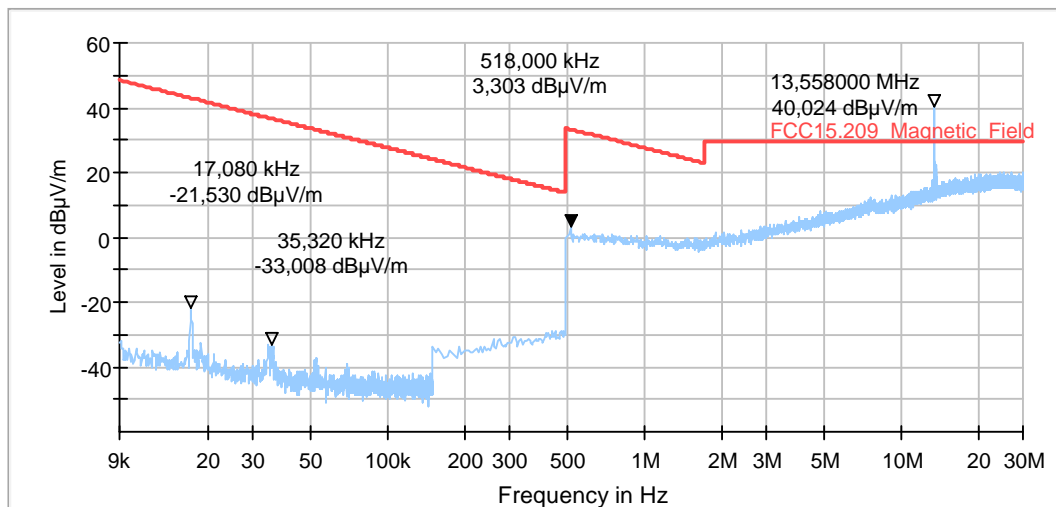
Common Information

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:	TFra
Operating Mode:	TXRX
Environmental Conditions:	Humidity: 54%rH; Temperature: 21°C
EUT Setup:	1 - standing
Verdict:	Passed

EUT Information

PMT Number:	24-1-00328S03_C01
Power supply:	12 V DC – Lead Acid Car Battery

Full Spectrum



2.06_RSE_TX_standing

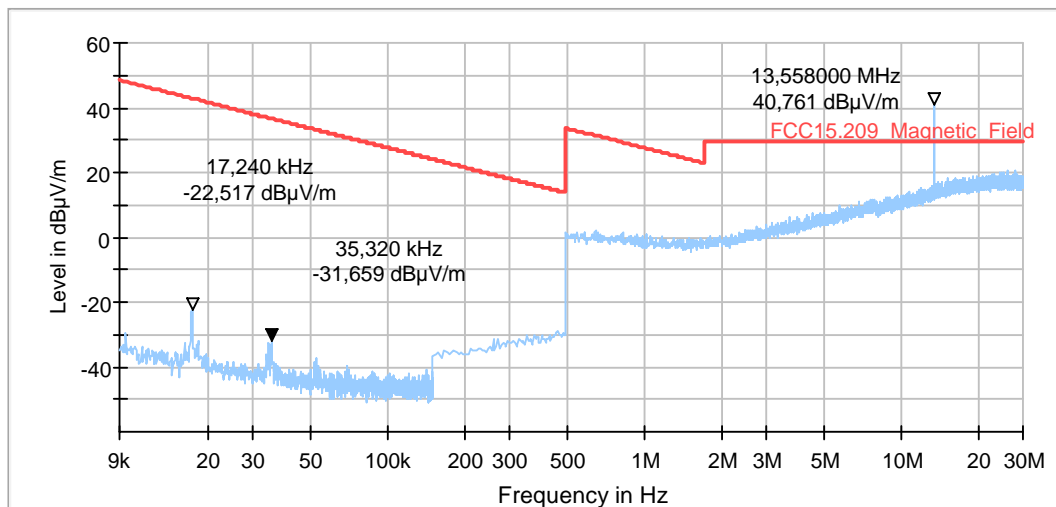
Common Information

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:	TFra
Operating Mode:	TX
Environmental Conditions:	Humidity: 54%rH; Temperature: 21°C
EUT Setup:	1 - standing
Verdict:	Passed

EUT Information

PMT Number:	24-1-00328S02_C01
Power supply:	12 V DC – Lead Acid Car Battery

Full Spectrum



3.01_RSE_TX_standing

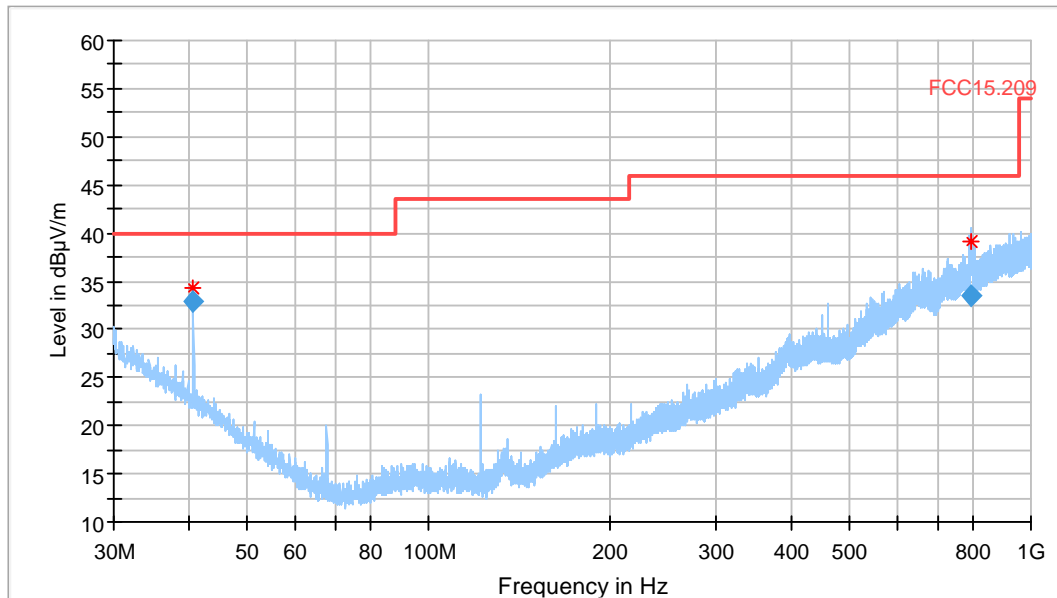
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: cetecom advanced GmbH
 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: TFra
 Operating Mode: TX
 Verdict: Passed

EUT Information

PMT Number: 24-1-00328S02_C01
 Power supply: 12 V DC – Lead Acid Car Battery



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Trd Corr. (dB/m)
40.678000	32.90	40.00	7.10	120.000	258.0	H	58.0	15.6
795.578000	33.45	46.00	12.55	120.000	162.0	H	91.0	22.4

3.02_RSE_TXRX_standing

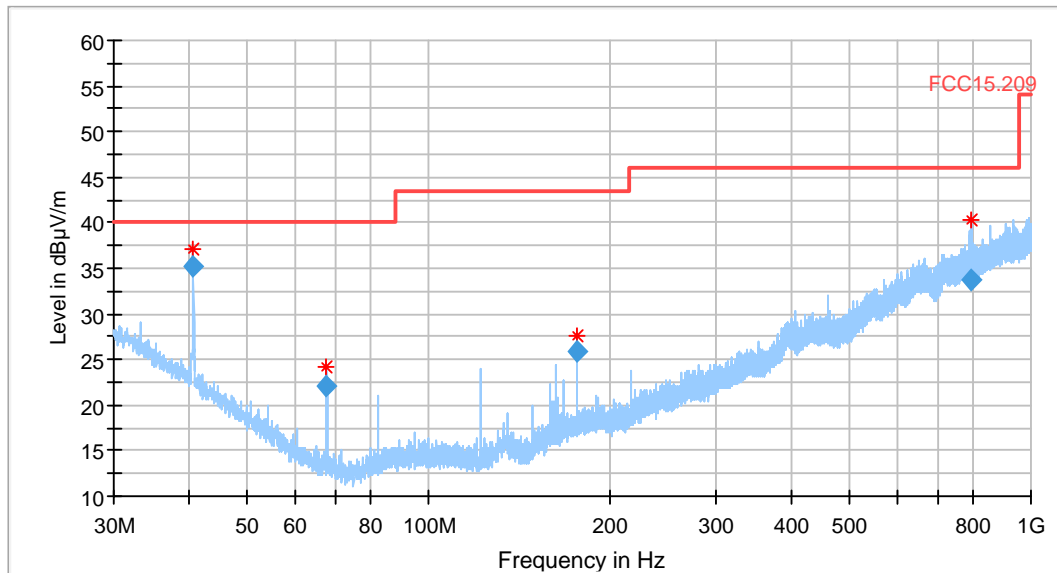
Common Information

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: 22.8°C
 Operator Name: TFra
 Operating Mode: TXRX
 Verdict: Passed

EUT Information

PMT Number: 24-1-00328S03_C01
 Power supply: 12 V DC – Lead Acid Car Battery



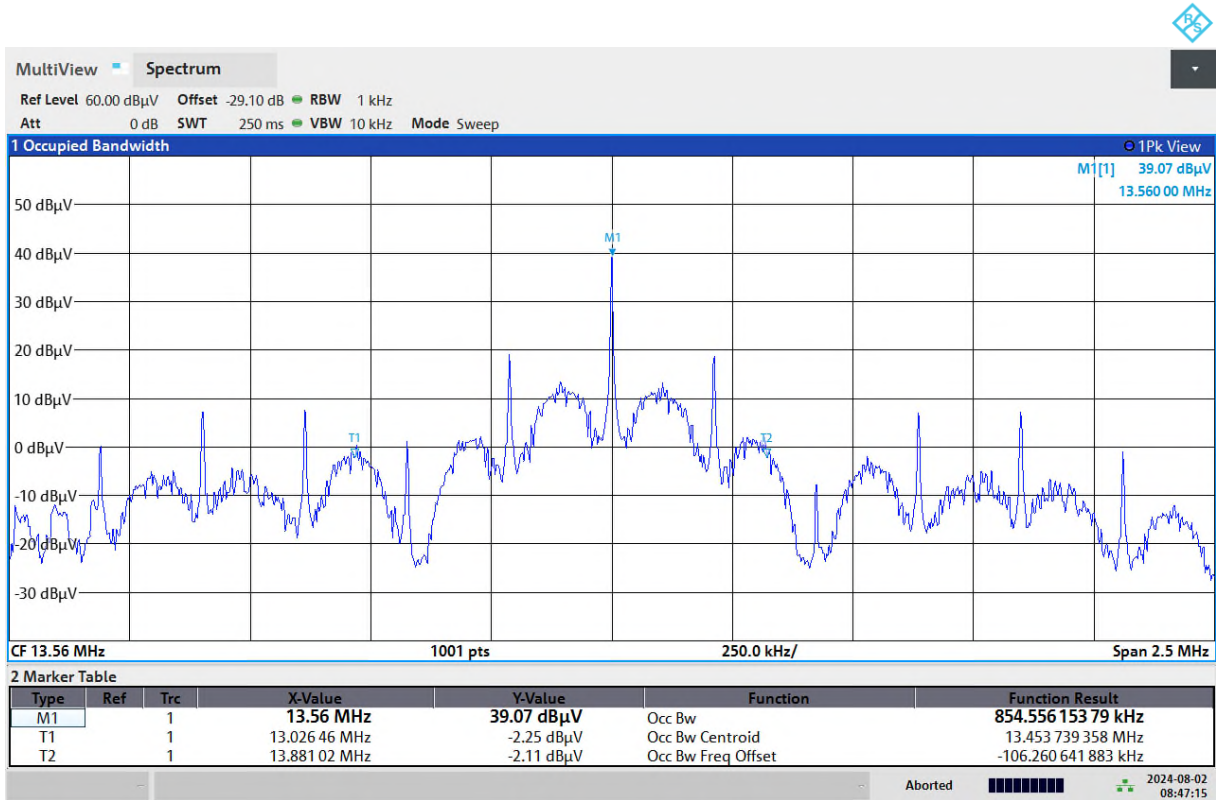
Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Trd Corr. (dB/m)
40.678000	35.17	40.00	4.83	120.000	206.0	H	265.0	15.6
67.798000	21.97	40.00	18.03	120.000	154.0	V	4.0	5.7
176.274000	25.84	43.50	17.66	120.000	105.0	V	48.0	9.1
794.678000	33.64	46.00	12.36	120.000	159.0	V	87.0	22.5

D001_99%OBW

EUT Information

PMT Number: 24-1-00328S03_C01
 Power supply: 12 V DC



Date: 2.AUG.2024 08:47:15

End Of Annex 1