



Report Reference No	CHTEW20080234	Report verification:		
Project No	SHT1911065103EW			
FCC ID	2AWH6-BLIP-A1			
Applicant's name:	Unifly N.V.	พ		
Address	Luchthavenlei 7A, 2100 Antwerg	o Belgium		
Manufacturer	Unifly N.V.			
Address	Luchthavenlei 7A, 2100 Antwerg	a Belaium		
Test item description	Unifly BLIP			
Trade Mark				
Model/Type reference	BLIP A1			
Listed Model(s)	- FCC CFR Title 47 Part 2			
Standard:	FCC CFR Title 47 Part 2			
	FCC CFR Title 47 Part 24			
Date of receipt of test sample	May. 22, 2020			
Date of testing	May. 23, 2020- Aug. 25, 2020			
Date of issue	Aug. 26, 2020			
Result	Pass			
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Testing Laboratory Name:	Shenzhen Huatongwei Interna	ational Inspection Co., Ltd.		
Address:	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China			

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Applicable Standards

The tests were performed according to following standards:

FCC Rules Part 2: FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

FCC Rules Part 22: PUBLIC MOBILE SERVICES

FCC Rules Part 24: PERSONAL COMMUNICATIONS SERVICES

<u>TIA/EIA 603 E March 2016</u>:Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

ANSI C63.26: 2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

KDB 971168 D01 Power Meas License Digital Systems v03: MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2020-08-26	Original

2. Test Description

Test Item	Section in CFR 47	Result	Test Engineer
	Part 2.1046		
Conducted Output Power	Part 22.913(a)	Pass*	N/A
	Part 24.232(c)		
Peak-to-Average Ratio	Part 24.232	Pass*	N/A
	Part 2.1049		
99% Occupied Bandwidth & 26 dB Bandwidth	Part 22.917(b)	Pass*	N/A
Danuwidin	Part 24.238(b)		
	Part 2.1051		
Band Edge	Part 22.917	Pass*	N/A
	Part 24.238		
	Part 2.1051		
Conducted Spurious Emissions	Part 22.917	Pass*	N/A
	Part 24.238		
	Part 2.1055(a)(1)(b)		
Frequency stability vs temperature	Part 22.355	Pass*	N/A
	Part 24.235		
	Part 2.1055(d)(1)(2)		
Frequency stability vs voltage	Part 22.355	Pass*	N/A
	Part 24.235		
ERP and EIRP	Part 22.913(a)	Pass	Pan Xie
	Part 24.232(b)	F 855	Pan Ale
	Part 2.1053		
Radiated Spurious Emissions	Part 22.917	Pass	Pan Xie
	Part 24.238		

Note:

The measurement uncertainty is not included in the test result.
 * reference to module report , which FCC ID is XPY1EIQ24NN

3. SUMMARY

3.1. Client Information

Applicant:	Unifly N.V.	
Address:	Luchthavenlei 7A, 2100 Antwerp, Belgium	
Manufacturer:	Unifly N.V.	
Address:	Luchthavenlei 7A, 2100 Antwerp, Belgium	

3.2. Product Description

Name of EUT:	Unifly BLIP			
Trade Mark:				
Model No.:	BLIP A1			
Listed Model(s):	-			
SIM Information:	Support One SIM Card			
Power supply:	DC 3.7V			
Hardware version:	R2.3			
Software version:	v2.1.14			
3G:				
Operation Band:	FDD Band II, FDD Band V			
Power Class:	Class 3			
Modulation Type:	QPSK			
Transmit frequency:	FDD Band II: 1852.40MHz~1907.60MHz FDD Band V: 826.40MHz~846.60MHz			
Receive frequency:	FDD Band II: 1932.40MHz~1987.60MHz FDD Band V: 871.40MHz~891.60MHz			
Antenna type:	Taoglas MCS6.A Antenna			
Antenna gain:	Band II: 1.0dBi, Band V: 3.0dBi			

3.3. Operation state

Test frequency list

FDD	Band II	FDD B	and V
Channel	Frequency (MHz)	Channel	Frequency (MHz)
9262	1852.40	4132	826.40
9400	1880.00	4183	836.60
9538	1907.60	4233	846.60

Test mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 and ANSI C63.26-2015 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

30 MHz to 10th harmonic for FDD Band II, Band V.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

	Test modes					
Band	Radiated	Conducted				
WCDMA Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link				
WCDMA Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link				

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- supplied by the lab

	o /	Manufacturer:	/
0		Model No.:	/
0	1	Manufacturer:	/
0	• /	Model No.:	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd. Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China.

4.2. Test Facility

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files.

IC-Registration No.:5377A

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No.: 5377A.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Equipments Used during the Test

•	Radiated Spu	rious Emission					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2021/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2019/10/26	2020/10/25
٠	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/11
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2018/04/04	2021/04/03
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
٠	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2019/11/14	2020/11/13
•	Broadband Preamplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2020/05/23	2021/05/22
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 02	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 03	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 04	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0121- 01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	EMI Test Software	Audix	N/A	E3	N/A	N/A	N/A

•	Auxiliary Equipment						
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Climate chamber	ESPEC	HTWE0254	GPL-2	N/A	2019/10/23	2020/10/22
•	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A

4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

	VN=Nominal Voltage	DC 3.70V	
Voltage	VL=Lower Voltage	DC 3.60V	
	VH=Higher Voltage	DC 4.20V	
Tomporatura	TN=Normal Temperature	25 °C	
Temperature	Extreme Temperature From -30° to + 50° centigrade		
Humidity	30~60 %		
Air Pressure	950-1050 hPa		

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1"and TR-100028-02 "Electromagnetic compatibility Radio spectrum Matters (ERM);Uncertainties compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement characteristics;Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.51 dB	(1)
Transmitter power Radiated	2.66dB for <1GHz 3.44dB for >1GHz	(1)
Conducted spurious emissions 9kHz~40GHz	0.51 dB	(1)
Radiated spurious emissions	2.66dB for <1GHz	(1)
	3.44dB for >1GHz	(.)
Occupied Rendwidth	15Hz for <1GHz	(1)
Occupied Bandwidth	70Hz for >1GHz	(1)
	15Hz for <1GHz	(4)
Frequency error	70Hz for >1GHz	(1)

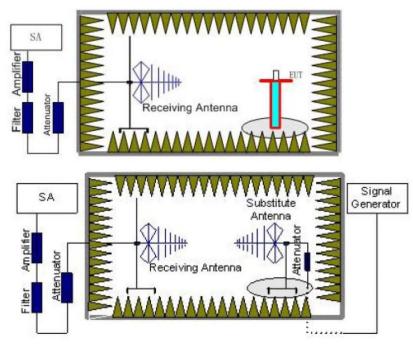
(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

5. TEST CONDITIONS AND RESULTS

5.1. ERP and EIRP

LIMIT WCDMA Band V: 7W (38.45dBm) ERP WCDMA Band II: 2W (33dBm) EIRP

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- Receiver or Spectrum set as follow: Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW/ 1MHz, VBW/ 2MHz, Detector=Peak, Sweep time=Auto
- Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.

- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:
 Pe = Ps(dBm) cable loss (dB) + antenna gain (dBd)
 where
 Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE-dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

- Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from: gain (dBd) = gain (dBi) 2.15 dB.
- If necessary, the antenna gain can be calculated from calibrated antenna factor information
- 14. Provide the complete measurement results as a part of the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result
	9262	V	20.45		
	9202	Н	16.12		
WCDMA Band II	0400	V	19.97	<33.00	Doop
	9400	Н	15.12	<33.00	Pass
	9538	V	19.86		
	9000	Н	14.35		

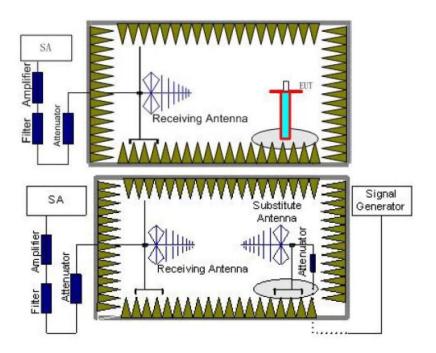
Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result
	4132	V	22.34		
	4132	Н	19.44		
WCDMA Band V	4492	V	22.16	-29.45	Daga
	4183	Н	19.01	<38.45	Pass
	4000	V	22.71		
	4233	Н	18.93		

5.2. Radiated Spurious Emission

<u>LIMIT</u>

-13dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- Receiver or Spectrum set as follow: Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any

potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.

- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:
 Pe = Ps(dBm) cable loss (dB) + antenna gain (dBd)
 where
 Pe = equivalent emission power in dBm
 - Ps = source (signal generator) power in dBm
 - NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.
- Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from: gain (dBd) = gain (dBi) 2.15 dB.
- If necessary, the antenna gain can be calculated from calibrated antenna factor information
- 14. Provide the complete measurement results as a part of the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Note: Worst case at WCDMA Band II/ WCDMA Band V

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hannel: 926	2				Polariz	zation: Hori	zontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	38.37	-76.45	28.62	6.54	30.82	-72.11	-13.00	-59.11	Peak
2	378.65	-78.34	25.46	8.23	30.12	-74.77	-13.00	-61.77	Peak
3	1333.54	-69.09	37.02	12.78	29.29	-48.58	-13.00	-35.58	Peak
4	2376.69	-70.18	39.95	13.12	28.53	-45.64	-13.00	-32.64	Peak
5	3705.85		42.28	9.79	37.06	-55.80	-13.00	-42.80	Peak
5	5554.08	-70.81 -73.74	42.20	12.21	35.25	-52.98	-13.00	-42.00	Peak
hannel: 926						zation: Vert			
Mark	Frequency	Reading	Antenna	Cable	1	Level	Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	90.50	-77.60	28.13	6.92	30.67	-73.22	-13.00	-60.22	Peak
2	366.85	-78.20	25.01	8.19	30.12	-75.12	-13.00	-62.12	Peak
3	1367.66	-68.95	37.62	12.60		-47.92	-13.00	-34.92	Peak
4	2162.42	-68.94	41.11	12.50		-44.99	-13.00	-31.99	Peak
5									
	3700.48	-69.14	42.31	9.79	37.05	-54.09	-13.00	-41.09	Peak
6	7730.65	-76.49	48.45	14.60	33.17	-46.61	-13.00	-33.61	Peak
hannel: 940	0				Polariz	zation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
TIME IS	MHz	dBm	dB	dB	dB	dBm	dBm	limit	institut K
4	36.92			6.53					Deels
1		-75.39	28.65		30.78	-70.99	-13.00	-57.99	Peak
2	809.30	-78.50	29.95	9.60		-68.47	-13.00	-55.47	Peak
З	1379.74	-68.88	37.12	12.54	29.16	-48.38	-13.00	-35.38	Peak
4	2322.48	-69.23	40.25	12.95	29.09	-45.12	-13.00	-32.12	Peak
5	5643.40	-74.17	43.78	12.46	35.00	-52.93	-13.00	-39.93	Peak
6	7520.54	-73.99	47.99	14.23	33.78	-45.55	-13.00	-32.55	Peak
hannel: 940	0				Polariz	zation: Vert	ical		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	90.50	-77.89	28.13	6.92	30.67	-73.51	-13.00	-60.51	Peak
2	610.85	-78.75	27.90	8.98		-73.06	-13.00	-60.06	Peak
3	1369.17	-69.08	37.63	12.59	29.19	-48.05	-13.00	-35.05	Peak
4	2297.11	-69.24	40.53	12.87		-45.18	-13.00	-32.18	Peak
5	3754.53	-71.13	42.15	9.82	37.13	-56.29	-13.00	-43.29	Peak
6	7935.11	-75.77	47.92	14.49	33.32	-46.68	-13.00	-33.68	Peak
hannel: 953	8				Polariz	zation: Hori	zontal		
Marale	Engruene	Reading	Antonno	Cable	Decer	Level	Limit	0	Domesik
Mark	Frequency	0	Antenna		Preamp			Over	Remark
1	MHz	dBm	dB	dB	dB	dBm	dBm	limit	and the second
1	36.92	-76.01	28.65	6.53	30.78	-71.61	-13.00	-58.61	Peak
2	448.27	-78.48	26.14	8.48	30.35	-74.21	-13.00	-61.21	Peak
З	1327.69	-67.90	37.01	12.82	29.31	-47.38	-13.00	-34.38	Peak
4	2279.51	-69.44	40.50	12.82	29.39	-45.51	-13.00	-32.51	Peak
5	5725.84	-72.01	43.90	12.43	34.86	-50.54	-13.00	-37.54	Peak
6	7630.40	-71.39	47.67	14.69	33.18	-42.21	-13.00	-29.21	Peak
hannel: 953	8				Polariz	zation: Vert	ical		
				Cal-1					Descal
Mark	Frequency	Reading	Antenna	Cable	Preamp		Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	90.19	-78.95	28.23	6.92	30.67	-74.47	-13.00	-61.47	Peak
2	401.97	-77.98	25.97	8.32	30.12	-73.81	-13.00	-60.81	Peak
з	1411.94	-69.23	37.76	12.35	29.10	-48.22	-13.00	-35.22	Peak
4	2345.56	-68.72	39.96	13.02	28.85	-44.59	-13.00	-31.59	Peak
5	3814.91	-67.89	41.98	9.86	37.00	-53.05	-13.00	-40.05	Peak

Remark:

1.

The emission behaviour belongs to narrowband spurious emission. The emission levels of not record in the report are very lower than the limit and not show in test report. 2.

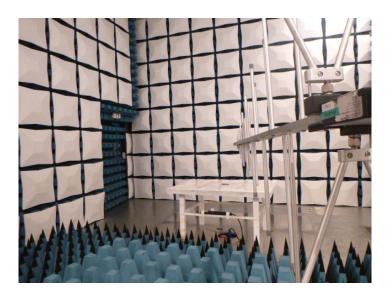
	2				Polariz	zation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
and the second	MHz	dBm	dB	dB	dB	dBm	dBm	limit	and the strength
1	40.03	-76.04	28.56	6.56	30.86	-71.78	-13.00	-58.78	Peak
2	390.82	-78.53	25.89	8.28	30.11	-74.47	-13.00	-61.47	Peak
3	1284.65	-69.13	36.92	12.70	29.39	-48.90	-13.00	-35.90	Peak
4								-32.76	
	2205.60	-69.68	40.94	12.61	29.63	-45.76	-13.00		Peak
5	4481.22	-75.40	43.15	10.66		-57.84	-13.00	-44.84	Peak
6	7912.13	-75.14	48.02	14.56	33.33	-45.89	-13.00	-32.89	Peak
annel: 4132					Polarization: Vertical				
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	treater it
1	90.19	-78.33	28.23	6.92	30.67	-73.85	-13.00	-60.85	Peak
2	400.56	-77.03	26.03	8.32	30.11	-72.79	-13.00	-59.79	Peak
3	1402.66	-69.08	37.76	12.41	29.10	-48.01	-13.00	-35.01	Peak
4	2195.93	-69.62	41.66	12.58	29.65	-45.03	-13.00	-32.03	Peak
5	4334.21	-74.76	42.85	10.71	36.19	-57.39	-13.00	-44.39	Peak
6	7619.34	-76.02	48.28	14.68	33.18	-46.24	-13.00	-33.24	Peak
nel: 4182	2				Polariz	zation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
T IST IS	MHz	dBm	dB	dB	dB	dBm	dBm	limit	riseinen K
				87778					Deals
1	31.74	-62.86	28.78	6.47	30.85	-58.46	-13.00	-45.46	Peak
2	411.99	-77.95	26.01	8.35	30.17	-73.76	-13.00	-60.76	Peak
з	1379.74	-69.46	37.12	12.54	29.16	-48.96	-13.00	-35.96	Peak
4	2279.51	-69.45	40.50	12.82	29.39	-45.52	-13.00	-32.52	Peak
5	4346.80	-75.12	42.76	10.70	36.20	-57.86	-13.00	-44.86	Peak
6	7958.16	-75.51	48.08	14.42	33.32	-46.33	-13.00	-33.33	Peak
nnel: 4182	2				Polariz	zation: Vert	ical		
Mark	Frequency	Reading	Antenna	Cable	Preamp		Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
Mark 1									Remark Peak
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	MHz 90.19	dBm -79.13	dB 28.23	dB 6.92	dB 30.67	dBm -74.65	dBm -13.00	limit -61.65	Peak
1 2	MHz 90.19 410.54 1373.69	dBm -79.13 -78.08 -69.32	dB 28.23 25.63 37.65	dB 6.92 8.34 12.57	dB 30.67 30.17 29.17	dBm -74.65 -74.28 -48.27	dBm -13.00 -13.00 -13.00	limit -61.65 -61.28 -35.27	Peak Peak Peak
1 2 3 4	MHz 90.19 410.54 1373.69 2205.60	dBm -79.13 -78.08 -69.32 -69.43	dB 28.23 25.63 37.65 41.66	dB 6.92 8.34 12.57 12.61	dB 30.67 30.17 29.17 29.63	dBm -74.65 -74.28 -48.27 -44.79	dBm -13.00 -13.00 -13.00 -13.00	limit -61.65 -61.28 -35.27 -31.79	Peak Peak Peak Peak
1 2 3	MHz 90.19 410.54 1373.69	dBm -79.13 -78.08 -69.32	dB 28.23 25.63 37.65	dB 6.92 8.34 12.57	dB 30.67 30.17 29.17	dBm -74.65 -74.28 -48.27	dBm -13.00 -13.00 -13.00	limit -61.65 -61.28 -35.27	Peak Peak Peak
1 2 3 4 5 6	MHz 90.19 410.54 1373.69 2205.60 4410.30 7741.87	dBm -79.13 -78.08 -69.32 -69.43 -74.51	dB 28.23 25.63 37.65 41.66 43.04	dB 6.92 8.34 12.57 12.61 10.64	dB 30.67 30.17 29.17 29.63 36.15 33.17	dBm -74.65 -74.28 -48.27 -44.79 -56.98	dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00	limit -61.65 -61.28 -35.27 -31.79 -43.98	Peak Peak Peak Peak Peak
1 2 3 4 5 6	MHz 90.19 410.54 1373.69 2205.60 4410.30 7741.87 3	dBm -79.13 -78.08 -69.32 -69.43 -74.51 -76.60	dB 28.23 25.63 37.65 41.66 43.04 48.47	dB 6.92 8.34 12.57 12.61 10.64 14.55	dB 30.67 30.17 29.17 29.63 36.15 33.17 Polariz	dBm -74.65 -74.28 -48.27 -44.79 -56.98 -46.75 zation: Hori	dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 zontal	limit -61.65 -61.28 -35.27 -31.79 -43.98 -33.75	Peak Peak Peak Peak Peak Peak
1 2 3 4 5 6	MHz 90.19 410.54 1373.69 2205.60 4410.30 7741.87 3 Frequency	dBm -79.13 -78.08 -69.32 -69.43 -74.51 -76.60 Reading	dB 28.23 25.63 37.65 41.66 43.04 48.47 Antenna	dB 6.92 8.34 12.57 12.61 10.64 14.55 Cable	dB 30.67 30.17 29.17 29.63 36.15 33.17 Polariz	dBm -74.65 -74.28 -48.27 -44.79 -56.98 -46.75 zation: Hori	dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 Zontal	limit -61.65 -61.28 -35.27 -31.79 -43.98 -33.75 Over	Peak Peak Peak Peak Peak
1 2 3 4 5 6 nnel: 4233	MHz 90.19 410.54 1373.69 2205.60 4410.30 7741.87 3 Frequency MHz	dBm -79.13 -78.08 -69.32 -69.43 -74.51 -76.60 Reading dBm	dB 28.23 25.63 37.65 41.66 43.04 48.47 Antenna dB	dB 6.92 8.34 12.57 12.61 10.64 14.55 Cable dB	dB 30.67 30.17 29.17 29.63 36.15 33.17 Polariz Preamp dB	dBm -74.65 -74.28 -48.27 -44.79 -56.98 -46.75 zation: Hori Level dBm	dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 Zontal	limit -61.65 -61.28 -35.27 -31.79 -43.98 -33.75 Over limit	Peak Peak Peak Peak Peak Remark
1 2 3 4 5 6	MHz 90.19 410.54 1373.69 2205.60 4410.30 7741.87 3 Frequency	dBm -79.13 -78.08 -69.32 -69.43 -74.51 -76.60 Reading	dB 28.23 25.63 37.65 41.66 43.04 48.47 Antenna	dB 6.92 8.34 12.57 12.61 10.64 14.55 Cable	dB 30.67 30.17 29.17 29.63 36.15 33.17 Polariz	dBm -74.65 -74.28 -48.27 -44.79 -56.98 -46.75 zation: Hori	dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 Zontal	limit -61.65 -61.28 -35.27 -31.79 -43.98 -33.75 Over	Peak Peak Peak Peak Peak Peak
1 2 3 4 5 6 nnel: 4233	MHz 90.19 410.54 1373.69 2205.60 4410.30 7741.87 3 Frequency MHz	dBm -79.13 -78.08 -69.32 -69.43 -74.51 -76.60 Reading dBm	dB 28.23 25.63 37.65 41.66 43.04 48.47 Antenna dB	dB 6.92 8.34 12.57 12.61 10.64 14.55 Cable dB	dB 30.67 30.17 29.17 29.63 36.15 33.17 Polariz Preamp dB	dBm -74.65 -74.28 -48.27 -44.79 -56.98 -46.75 zation: Hori Level dBm	dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 Zontal	limit -61.65 -61.28 -35.27 -31.79 -43.98 -33.75 Over limit	Peak Peak Peak Peak Peak Remark
1 2 3 4 5 6 nnel: 4233 Mark 1	MHz 90.19 410.54 1373.69 2205.60 4410.30 7741.87 3 3 Frequency MHz 37.70 389.45	dBm -79.13 -78.08 -69.32 -69.43 -74.51 -76.60 Reading dBm -72.01 -79.45	dB 28.23 25.63 37.65 41.66 43.04 48.47 Antenna dB 28.63 25.85	dB 6.92 8.34 12.57 12.61 10.64 14.55 Cable dB 6.53 8.28	dB 30.67 30.17 29.17 29.63 36.15 33.17 Polariz Preamp dB 30.80 30.11	dBm -74.65 -74.28 -48.27 -44.79 -56.98 -46.75 zation: Hori Level dBm -67.65	dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 Zontal Limit dBm -13.00 -13.00	limit -61.65 -61.28 -35.27 -31.79 -43.98 -33.75 Over limit -54.65 -62.43	Peak Peak Peak Peak Peak Remark Peak Peak
1 2 3 4 5 6 nnel: 4233 Mark 1 2 3	MHz 90.19 410.54 1373.69 2205.60 4410.30 7741.87 3 3 5 5 7 7 4 1.87 3 3 7 7 4 1.87 3 3 8 5 7 7 4 1.87 3 8 7 7 6 3 8 9 4 5 1355.70	dBm -79.13 -78.08 -69.32 -69.43 -74.51 -76.60 Reading dBm -72.01 -79.45 -69.50	dB 28.23 25.63 37.65 41.66 43.04 48.47 Antenna dB 28.63 25.85 37.07	dB 6.92 8.34 12.57 12.61 10.64 14.55 Cable dB 6.53 8.28 12.66	dB 30.67 30.17 29.17 29.63 36.15 33.17 Polariz Preamp dB 30.80 30.11 29.23	dBm -74.65 -74.28 -48.27 -44.79 -56.98 -46.75 zation: Hori Level dBm -67.65 -75.43 -49.00	dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 Zontal Limit dBm -13.00 -13.00 -13.00 -13.00	limit -61.65 -61.28 -35.27 -31.79 -43.98 -33.75 Over limit -54.65 -62.43 -36.00	Peak Peak Peak Peak Peak Remark Peak Peak Peak
1 2 3 4 5 6 Mark 1 2 3 4	MHz 90.19 410.54 1373.69 2205.60 4410.30 7741.87 3 3 5 5 5 7 8 5 7 7 4 1.87 3 7 7 6 389.45 1355.70 2361.07	dBm -79.13 -78.08 -69.32 -69.43 -74.51 -76.60 Reading dBm -72.01 -79.45 -69.50 -68.83	dB 28.23 25.63 37.65 41.66 43.04 48.47 Antenna dB 28.63 25.85 37.07 40.04	dB 6.92 8.34 12.57 12.61 10.64 14.55 Cable dB 6.53 8.28 12.66 13.07	dB 30.67 30.17 29.17 29.63 36.15 33.17 Polariz Preamp dB 30.80 30.11 29.23 28.69	dBm -74.65 -74.28 -48.27 -44.79 -56.98 -46.75 zation: Hori Level dBm -67.65 -75.43 -49.00 -44.41	dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 Zontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00	limit -61.65 -61.28 -35.27 -31.79 -43.98 -33.75 Over limit -54.65 -62.43 -36.00 -31.41	Peak Peak Peak Peak Peak Remark Peak Peak Peak Peak
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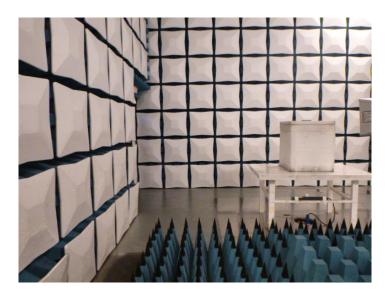
Remark:

1.

The emission behaviour belongs to narrowband spurious emission. The emission levels of not record in the report are very lower than the limit and not show in test report. 2.

6. TEST SETUP PHOTOS OF THE EUT



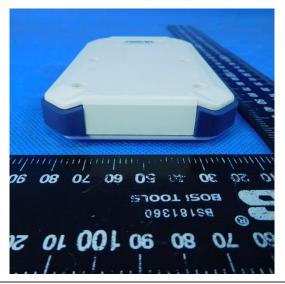


7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT



EXTERNAL PHOTOS OF EUT











INTERNAL PHOTOS OF EUT







Issued: 2020-08-26



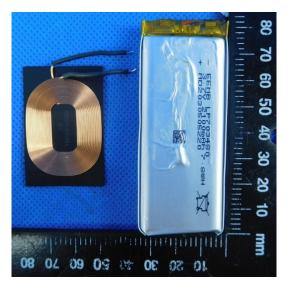












8. APPENDIX REPORT