



Spot Check Evaluation

APPLICANT : Fibocom Wireless Inc.
EQUIPMENT : LTE Module
BRAND NAME : Fibocom
MODEL NAME : FM350-GL-16
FCC ID : ZMOFM350GL16
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H), 27(F),
27(D), 27(N), 90(R), 90(S), 96

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
051802-26	Rev. 01	Initial issue of report	Sep. 13, 2023

Conformity Assessment Condition:
<ol style="list-style-type: none"> 1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. 2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"
Disclaimer:
<p>The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.</p>



1 General Description

1.1 Applicant

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China.

1.2 Manufacturer

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	LTE Module
Brand Name	Fibocom
Model Name	FM350-GL-16
FCC ID	ZMOFM350GL16
IMEI Code	Conducted / Radiation: 865924060013138
HW Version	V1.0
SW Version	11600.0000.00.29.22.01
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Modification of EUT

No modifications are made to the EUT during all test items.

1.5 Maximum Conducted Power

LTE Band 41		QPSK	16QAM / 64QAM / 256QAM
BW (MHz)	Frequency Range (MHz)	Maximum Conducted Power (W)	Maximum Conducted Power (W)
5	2498.5 ~ 2687.5	0.2178	0.1778
10	2501.0 ~ 2685.0	0.2203	0.1770
15	2503.5 ~ 2682.5	0.2158	0.1774
20	2506.0 ~ 2680.0	0.2239	0.1758

Note: Only the worst test results of PSK & QAM are shown in the report.



1.6 Testing Site

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH01-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC KDB 484596 D01 Referencing Test Data v01
- ♦ 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H), 27(F), 27(D), 27(N), 90(R), 90(S), 96
- ♦ ANSI C63.26-2015



2 Re-use of Measured Data

2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: FM350-GL-16, FCC ID: ZMOFM350GL16) is electrically identical to the reference device (Model: FM350-GL, FCC ID: ZMOFM350GL) for the portions of the circuitry corresponding to the data being re-used. Based on their similarity, the FCC Part 22, 24, 27, 90 (equipment class: PCB) and FCC Part 96 (equipment class: CBE) reuse the original model's result and do spot-check, following the FCC KDB 484596 D01 Referencing Test Data v01.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: ZMOFM350GL16 .

2.2 Model Difference Information

The main difference between FCC ID: ZMOFM350GL and FCC ID: ZMOFM350GL16 is as below:

- Remove LTE B46, LTE inter CA bands, 5G NR bands and LTE B41 HPUE mode.

Other differences and all the details of similarity and difference can be found in the confidential documents (FM350-GL-16_Operational Description of Product Equality Declaration).

2.3 Reference detail Section:

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID (Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)	Report Title/Section
22, 24, 27, 90, 96,	PCB (WCDMA)	Band II, IV, V	ZMOFM350GL	Original Grant	FG051802A	ZMOFM350GL16	All sections applicable
	PCB (LTE)	B2/4/5/25/26/66 ULCA 5B/66B/66C	ZMOFM350GL	Original Grant	FG051802B	ZMOFM350GL16	All sections applicable
	PCB (LTE)	B7/12/13/17/38/41/71 ULCA 7C/38C/41C	ZMOFM350GL	Original Grant	FG051802C	ZMOFM350GL16	All sections applicable
	PCB (LTE)	B26 (90S)	ZMOFM350GL	Original Grant	FW051802	ZMOFM350GL16	All sections applicable
	PCB (LTE)	B14 (90R)	ZMOFM350GL	Original Grant	FG051802D	ZMOFM350GL16	All sections applicable
	PCB (LTE)	B30 (27D)	ZMOFM350GL	Original Grant	FG051802E	ZMOFM350GL16	All sections applicable
	CBE (LTE)	B48, ULCA 48C (Part96)	ZMOFM350GL	Original Grant	FG051802F	ZMOFM350GL16	All sections applicable



2.4 Spot Check Verification Data Section

Conducted power test and radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

All test procedures follow the related section of parent report.

Summary for power and RSE spot check for each rule entry and technology is listed as below:

Test Item	Mode	ZMOFM350GL Parent Worst mode Test Result	ZMOFM350GL16 Variant Check Test Result	Difference (dB)
Conducted Power (dBm)	WCDMA Band II	23.46	23.25	0.21
	WCDMA Band IV	23.45	23.36	0.09
	WCDMA Band V	23.60	23.13	0.47
	LTE Band 2	22.46	22.45	0.01
	LTE Band 4	22.46	22.45	0.01
	LTE Band 5	23.67	22.91	0.76
	LTE Band 7	22.58	22.56	0.02
	LTE Band 12	24.02	23.05	0.97
	LTE Band 13	23.67	22.94	0.73
	LTE Band 14	23.72	22.99	0.73
	LTE Band 17	23.86	23.07	0.79
	LTE Band 25	22.46	22.41	0.05
	LTE Band 26(22H)	23.70	22.89	0.81
	LTE Band 26(90S)	23.69	23.07	0.62
	LTE Band 30	21.88	21.86	0.02
	LTE Band 66	22.86	22.86	0
	LTE Band 71	23.81	23.11	0.70
	LTE Band 38	22.39	22.37	0.02
LTE Band 41	23.50	23.21	0.29	
LTE Band 48	21.32	21.25	0.07	

Note: The conducted power of LTE B41 power class 3 is shown in this report.

Test Item	Mode	ZMOFM350GL Parent Worst Result	ZMOFM350GL16 Variant Check Result	Difference (dB)
Radiated Spurious Emission (dBm)	WCDMA Band II	-41.75	-40.83	-0.92
	LTE Band30	-14.38	-16.23	1.85
	LTE Band26	-49.85	-42.47	-7.38
	LTE Band48	-8.61	-13.15	4.54



Conclusion:

Radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. The power level and RSE spot check are shown within expected level compliant to limit line.

We are using power measurements from the original parent model reports to list on the grant.

The same Part 96 EUD mechanism/software is used in the variant. Hence, there is no spot check data for Part 96 EUD hand-shaking mechanism.

We confirm that the test data reuse policy of FCC KDB 484596 D01 Referencing Test Data v01 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.



3 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 06, 2023	Aug. 14, 2023	Apr. 05, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 25, 2022	Aug. 14, 2023	Dec. 24, 2023	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 26, 2022	Aug. 07, 2023	Dec. 25, 2023	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Aug. 07, 2023	Jul. 27, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 19, 2022	Aug. 07, 2023	Oct. 18, 2023	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Sep. 28, 2021	Aug. 07, 2023	Sep. 27, 2023	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 08, 2023	Aug. 07, 2023	Jul. 07, 2024	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Apr. 08, 2023	Aug. 07, 2023	Apr. 07, 2024	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 04, 2023	Aug. 07, 2023	Apr. 03, 2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Aug. 07, 2023	Oct. 18, 2023	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	Aug. 07, 2023	Jul. 06, 2024	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Nov. 10, 2022	Aug. 07, 2023	Nov. 09, 2023	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 07, 2023	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 07, 2023	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required.



4 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±1.34 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.48dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.53dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.02dB
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-THE END-



Appendix A. Test Results of Conducted Test

Test Engineer :	Fly Liang	Temperature :	22~23°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power)

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Power (W)		
				Low	Middle	High			
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Low CH	Middle CH	High CH
Channel				39750	40620	41490			
Frequency (MHz)				2506	2593	2680			
20	QPSK	1	0	23	23.2	23.14	0.1995	0.2089	0.2061
20	QPSK	1	49	23.34	23.49	23.5	0.2158	0.2234	0.2239
20	QPSK	1	99	23.13	23.28	23.2	0.2056	0.2128	0.2089
20	QPSK	50	0	22.12	22.36	22.29	0.1629	0.1722	0.1694
20	QPSK	50	24	22.18	22.38	22.32	0.1652	0.1730	0.1706
20	QPSK	50	50	22.16	22.38	22.29	0.1644	0.1730	0.1694
20	QPSK	100	0	22.17	22.38	22.28	0.1648	0.1730	0.1690
20	16QAM	1	0	22.06	22.29	22.21	0.1607	0.1694	0.1663
20	16QAM	1	49	22.2	22.45	22.39	0.1660	0.1758	0.1734
20	16QAM	1	99	22.14	22.37	22.25	0.1637	0.1726	0.1679
20	16QAM	50	0	21.12	21.39	21.28	0.1294	0.1377	0.1343
20	16QAM	50	24	21.18	21.4	21.32	0.1312	0.1380	0.1355
20	16QAM	50	50	21.15	21.37	21.29	0.1303	0.1371	0.1346
20	16QAM	100	0	21.17	21.38	21.3	0.1309	0.1374	0.1349
20	64QAM	1	0	20.8	21.02	20.99	0.1202	0.1265	0.1256
20	64QAM	1	49	20.97	21.21	21.14	0.1250	0.1321	0.1300
20	64QAM	1	99	20.92	21.09	21.04	0.1236	0.1285	0.1271
20	64QAM	50	0	20.09	20.36	20.27	0.1021	0.1086	0.1064
20	64QAM	50	24	20.15	20.37	20.34	0.1035	0.1089	0.1081
20	64QAM	50	50	20.11	20.39	20.32	0.1026	0.1094	0.1076
20	64QAM	100	0	20.13	20.35	20.27	0.1030	0.1084	0.1064
20	256QAM	1	0	18.19	18.08	18.15	0.0659	0.0643	0.0653
20	256QAM	1	49	18.16	18.03	18.12	0.0655	0.0635	0.0649
20	256QAM	1	99	18.18	18.04	18.1	0.0658	0.0637	0.0646
20	256QAM	50	0	18.3	18.11	18.2	0.0676	0.0647	0.0661
20	256QAM	50	24	18.28	18.09	18.17	0.0673	0.0644	0.0656
20	256QAM	50	50	18.22	18.06	18.14	0.0664	0.0640	0.0652
20	256QAM	100	0	18.17	18.13	18.19	0.0656	0.0650	0.0659
Channel				39725	40620	41515			
Frequency (MHz)				2503.5	2593	2682.5	Low CH	Middle CH	High CH
15	QPSK	1	0	23.08	23.29	23.2	0.2032	0.2133	0.2089
15	QPSK	1	37	23.08	23.31	23.22	0.2032	0.2143	0.2099
15	QPSK	1	74	23.14	23.34	23.27	0.2061	0.2158	0.2123
15	QPSK	36	0	22.09	22.33	22.28	0.1618	0.1710	0.1690
15	QPSK	36	20	22.11	22.35	22.3	0.1626	0.1718	0.1698
15	QPSK	36	39	22.13	22.33	22.26	0.1633	0.1710	0.1683



15	QPSK	75	0	22.13	22.34	22.3	0.1633	0.1714	0.1698
15	16QAM	1	0	22.12	22.36	22.25	0.1629	0.1722	0.1679
15	16QAM	1	37	22.19	22.49	22.42	0.1656	0.1774	0.1746
15	16QAM	1	74	22.15	22.42	22.32	0.1641	0.1746	0.1706
15	16QAM	36	0	21.05	21.3	21.24	0.1274	0.1349	0.1330
15	16QAM	36	20	21.09	21.33	21.29	0.1285	0.1358	0.1346
15	16QAM	36	39	21.09	21.34	21.25	0.1285	0.1361	0.1334
15	16QAM	75	0	21.12	21.36	21.29	0.1294	0.1368	0.1346
15	64QAM	1	0	20.88	21.12	21.06	0.1225	0.1294	0.1276
15	64QAM	1	37	20.95	21.23	21.21	0.1245	0.1327	0.1321
15	64QAM	1	74	20.94	21.16	21.11	0.1242	0.1306	0.1291
15	64QAM	36	0	20.05	20.31	20.27	0.1012	0.1074	0.1064
15	64QAM	36	20	20.11	20.33	20.29	0.1026	0.1079	0.1069
15	64QAM	36	39	20.11	20.31	20.27	0.1026	0.1074	0.1064
15	64QAM	75	0	20.12	20.32	20.29	0.1028	0.1076	0.1069
15	256QAM	1	0	18.07	18.22	18.17	0.0641	0.0664	0.0656
15	256QAM	1	37	18.14	18.16	18.11	0.0652	0.0655	0.0647
15	256QAM	1	74	18.15	18.23	18.16	0.0653	0.0665	0.0655
15	256QAM	36	0	18.06	18.21	18.11	0.0640	0.0662	0.0647
15	256QAM	36	20	18.13	18.05	18.05	0.0650	0.0638	0.0638
15	256QAM	36	39	18.12	18.23	18.19	0.0649	0.0665	0.0659
15	256QAM	75	0	18.11	18.16	18.16	0.0647	0.0655	0.0655
Channel				39700	40620	41540	Low CH	Middle CH	High CH
Frequency (MHz)				2501	2593	2685			
10	QPSK	1	0	23.17	23.33	23.3	0.2075	0.2153	0.2138
10	QPSK	1	25	23.17	23.43	23.31	0.2075	0.2203	0.2143
10	QPSK	1	49	23.13	23.31	23.24	0.2056	0.2143	0.2109
10	QPSK	25	0	22.2	22.38	22.32	0.1660	0.1730	0.1706
10	QPSK	25	12	22.15	22.37	22.32	0.1641	0.1726	0.1706
10	QPSK	25	25	22.17	22.33	22.33	0.1648	0.1710	0.1710
10	QPSK	50	0	22.24	22.41	22.33	0.1675	0.1742	0.1710
10	16QAM	1	0	22.22	22.47	22.37	0.1667	0.1766	0.1726
10	16QAM	1	25	22.23	22.48	22.37	0.1671	0.1770	0.1726
10	16QAM	1	49	22.24	22.43	22.43	0.1675	0.1750	0.1750
10	16QAM	25	0	21.18	21.38	21.38	0.1312	0.1374	0.1374
10	16QAM	25	12	21.19	21.37	21.34	0.1315	0.1371	0.1361
10	16QAM	25	25	21.21	21.38	21.35	0.1321	0.1374	0.1365
10	16QAM	50	0	21.24	21.38	21.46	0.1330	0.1374	0.1400
10	64QAM	1	0	20.96	21.27	21.18	0.1247	0.1340	0.1312
10	64QAM	1	25	20.99	21.2	21.12	0.1256	0.1318	0.1294
10	64QAM	1	49	20.96	21.17	21.17	0.1247	0.1309	0.1309
10	64QAM	25	0	20.19	20.39	20.39	0.1045	0.1094	0.1094
10	64QAM	25	12	20.2	20.4	20.42	0.1047	0.1096	0.1102
10	64QAM	25	25	20.23	20.43	20.4	0.1054	0.1104	0.1096
10	64QAM	50	0	20.15	20.38	20.35	0.1035	0.1091	0.1084
10	256QAM	1	0	18.17	18.1	18.06	0.0656	0.0646	0.0640
10	256QAM	1	25	18.19	18.22	18.09	0.0659	0.0664	0.0644
10	256QAM	1	49	18.18	18.17	18.12	0.0658	0.0656	0.0649
10	256QAM	25	0	18.16	18.13	18.09	0.0655	0.0650	0.0644
10	256QAM	25	12	18.06	18.11	18.07	0.0640	0.0647	0.0641



10	256QAM	25	25	18.16	18.13	18.04	0.0655	0.0650	0.0637
10	256QAM	50	0	18.16	18.06	18.07	0.0655	0.0640	0.0641
Channel				39675	40620	41565	Low CH	Middle CH	High CH
Frequency (MHz)				2498.5	2593	2687.5			
5	QPSK	1	0	23.18	23.38	23.32	0.2080	0.2178	0.2148
5	QPSK	1	12	23.13	23.37	23.3	0.2056	0.2173	0.2138
5	QPSK	1	24	23.06	23.28	23.24	0.2023	0.2128	0.2109
5	QPSK	12	0	22.16	22.34	22.36	0.1644	0.1714	0.1722
5	QPSK	12	7	22.17	22.36	22.31	0.1648	0.1722	0.1702
5	QPSK	12	13	22.13	22.29	22.32	0.1633	0.1694	0.1706
5	QPSK	25	0	22.13	22.38	22.38	0.1633	0.1730	0.1730
5	16QAM	1	0	22.27	22.47	22.37	0.1687	0.1766	0.1726
5	16QAM	1	12	22.18	22.49	22.42	0.1652	0.1774	0.1746
5	16QAM	1	24	22.19	22.5	22.44	0.1656	0.1778	0.1754
5	16QAM	12	0	21.11	21.39	21.34	0.1291	0.1377	0.1361
5	16QAM	12	7	21.12	21.32	21.29	0.1294	0.1355	0.1346
5	16QAM	12	13	21.05	21.31	21.31	0.1274	0.1352	0.1352
5	16QAM	25	0	21.16	21.39	21.33	0.1306	0.1377	0.1358
5	64QAM	1	0	20.96	21.23	21.23	0.1247	0.1327	0.1327
5	64QAM	1	12	20.93	21.26	21.27	0.1239	0.1337	0.1340
5	64QAM	1	24	20.95	21.2	21.16	0.1245	0.1318	0.1306
5	64QAM	12	0	20.14	20.35	20.42	0.1033	0.1084	0.1102
5	64QAM	12	7	20.21	20.34	20.38	0.1050	0.1081	0.1091
5	64QAM	12	13	20.16	20.4	20.33	0.1038	0.1096	0.1079
5	64QAM	25	0	20.17	20.34	20.39	0.1040	0.1081	0.1094
5	256QAM	1	0	18.07	18.13	18.19	0.0641	0.0650	0.0659
5	256QAM	1	12	18.13	18.15	18.01	0.0650	0.0653	0.0632
5	256QAM	1	24	17.99	18.05	18.19	0.0630	0.0638	0.0659
5	256QAM	12	0	18.14	18.23	18.18	0.0652	0.0665	0.0658
5	256QAM	12	7	18.05	18.18	18.04	0.0638	0.0658	0.0637
5	256QAM	12	13	18.07	18.23	18.16	0.0641	0.0665	0.0655
5	256QAM	25	0	18.17	18.09	18.01	0.0656	0.0644	0.0632