

TEST REPORT

Product : Hunting Camera
Trade mark : BROWNING
Model/Type reference : BTC-DWPS-ATT, BTC-DWPS-VZW
Serial Number : N/A
Report Number : EED32M00186501
FCC ID : 2ALGTBTC-DWPS-AV
Date of Issue : Jul. 02, 2020
Test Standards : 47 CFR Part 2
47 CFR Part 24 subpart E
Test result : PASS

Prepared for:

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Prepared by:

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Date:

Jul. 02, 2020

Sam Chuang

Check No.:2447635447



2 Version

Version No.	Date	Description
00	Jul. 02, 2020	Original

3 Test Summary

LTE band 2			
Test Item	Test Requirement	Test method	Result
Effective Radiated Power of Transmitter(EIRP)	Part 2.1046(a) / Part 24.232(c)	TIA-603-E-2016&KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	Part 2.1051/ Part 2.1057/ Part 24.238(a)(b)	TIA-603-E-2016&KDB 971168 D01v03r01	PASS

Remark:

The tested samples and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

Model No.:BTC-DWPS-ATT, BTC-DWPS-VZW

Only the model BTC-DWPS-ATT was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with only model number is different for the marketing requirement.

The marketing requirement is as below,

BTC-DWPS-ATT operates on the ATT Network

BTC-DWPS-VZW operates on the Verizon Network

The certified module ID is FCC ID: R17LE910NAV2, and report numbers of this certified module are 1506FR21-01 and RF exposure analysis dated on 04/14/2016.

This certified module will be integrated into a host that is a hunting camera. Therefore, it is the same mobile condition as the original filling.

In this report, this certified module is same as the original filling. We have verified the power and test for new radiated emission/exposure evaluation to demonstrate full compliance.

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5 Test Requirement

5.1 Test setup

5.1.1 For Radiated Emissions test setup

Radiated Emissions setup:

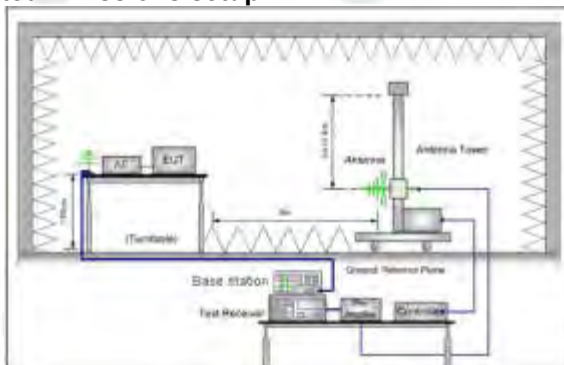


Figure 1.30MHz to 1GHz

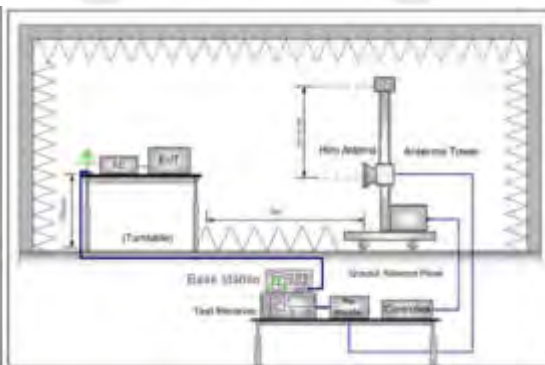


Figure 2. above 1GHz

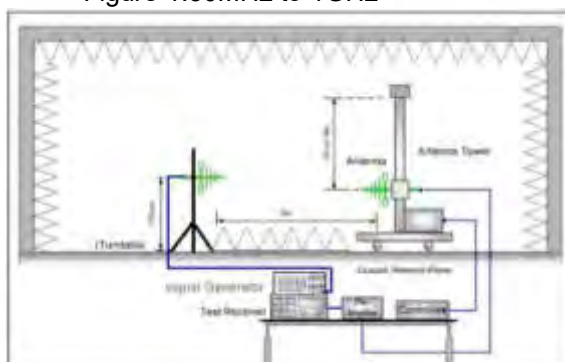


Figure 1. 30MHz to 1GHz

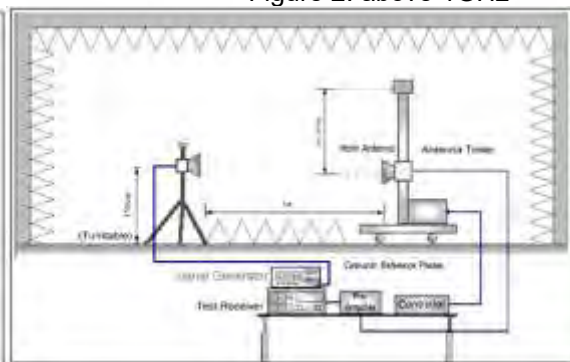


Figure 2. above 1GHz

5.2 Test Environment

Operating Environment:

Temperature:	23°C
Humidity:	54% RH
Atmospheric Pressure:	1010mbar

5.3 Test Condition

Test channel:

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)	Number [DL]	Frequency of Downlink(MHz)
LTE band2 TX:1850-1910MHz RX:1930-1990MHz	Low Range	1.4	18607	1850.7	607	1930.7
		3	18615	1851.5	615	1931.5
		5	18625	1852.5	625	1932.5
		10	18650	1855	650	1935
		15	18675	1857.5	675	1937.5
		20	18700	1860	700	1940
	Mid Range	1.4/3/5/10/15/20	18900	1880	900	1960
	High Range	1.4	19193	1909.3	1193	1989.3
		3	19185	1908.5	1185	1988.5
		5	19175	1907.5	1175	1987.5
		10	19150	1905	1150	1985
		15	19125	1902.5	1125	1982.5
		20	19100	1900	1100	1980

6 General Information

6.1 Client Information

Applicant:	Prometheus Group LLC
Address of Applicant:	P.O. Box 130100 Birmingham, Alabama 35213-0100 USA
Manufacturer:	Hooray Innovation Limited
Address of Manufacturer:	Flat 3, 15/F, Wah Yiu Industrial Building, 30-32 Au Pui Wan Street, Shatin, HK.
Factory:	Hooray Innovation Limited
Address of Factory:	Flat 3, 15/F, Wah Yiu Industrial Building, 30-32 Au Pui Wan Street, Shatin, HK.

6.2 General Description of EUT

Product Name:	Hunting Camera
Model No.(EUT):	BTC-DWPS-ATT, BTC-DWPS-VZW
Test Model No.:	BTC-DWPS-ATT
Trade mark:	BROWNING
EUT Supports Radios application:	LTE Band 2: Tx: 1850-1910MHz, Rx: 1930-1990MHz LTE Band 4: Tx: 1710-1755 MHz, Rx: 2110-2155 MHz LTE Band 5: Tx: 824-849 MHz, Rx: 869-894MHz LTE Band 12: Tx: 699-716 MHz, Rx: 729-746 MHz LTE Band 13: Tx: 777-787 MHz, Rx: 746-756 MHz
Test Power Grade:	Default
Test Software of EUT:	Default
Power Supply:	Battery AA 1.5V*8
Firmware version:	N/A
Hardware version:	N/A
Sample Received Date:	Jun. 28, 2020
Sample tested Date:	Jun. 28, 2020 to Jun. 30, 2020

6.3 Product Specification subjective to this standard

Frequency Band:	LTE Band 2: Tx: 1850 MHz – 1910MHz, Rx: 1930 MHz – 1990MHz
Modulation Type:	QPSK, 16QAM
Antenna Type	Dipole Antenna
Antenna Gain:	1.42 dBi
Test Voltage:	DC 12V

6.4 Description of Support Units

The EUT has been tested with associated equipment below

Associated equipment name		Manufacture	model	S/N serial number	Supplied by	Certification
AE1	Notebook	DELL	DELL 3490	D245DX2	DELL	CE&FCC

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

6.6 Deviation from Standards

None.

6.7 Abnormalities from Standard Conditions

None.

6.8 Other Information Requested by the Customer

None.

6.9 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
		4.5dB (1GHz-12.75GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

7 Equipment List

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-05-2020	03-04-2021
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-25-2018	04-24-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-25-2018	04-24-2021
Communication Antenna	Schwarzbeck	CLSA 0110L	1014	---	---
Horn Antenna	ETS-LINDGREN	3117	00057407	07-10-2018	07-09-2021
Preamplifier	EMCI	EMC184055SE	980596	05-20-2020	05-19-2021
Communication test set	R&S	CMW500	102898	01-14-2020	01-13-2021
Preamplifier	EMCI	EMC001330	980563	04-22-2020	04-21-2021
Preamplifier	JS Tonscend	980380	EMC051845 SE	01-09-2020	01-08-2021
Temperature/Humidity Indicator	biaozhi	GM1360	EE1186631	04-27-2020	04-26-2021
Fully Anechoic Chamber	TDK	FAC-3	---	01-17-2018	01-16-2021
Filter bank	JS Tonscend	JS0806-F	188060094	04-10-2018	04-09-2021
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---

8 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	PART 22	PART 22 – PUBLIC MOBILE SERVICES Subpart H – Cellular Radiotelephone Service
2	PART 24	PART 24 – PERSONAL COMMUNICATIONS SERVICES Subpart E – Broadband PCS
3	PART 27	PART 27 – MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES
3	PART 2	Frequency allocations and radio treaty matters; general rules and regulations
4	TIA-603-E-2016	Land Mobile FM or PM -Communications Equipment -Measurement and Performance Standards
5	KDB971168 D01	KDB971168 D01 Power Meas License Digital Systems v03r01

Test Results List:

Test Requirement	Test method	Test item	Verdict	Note
Part 2.1046(a)/ Part 24.232(c)	TIA-603-E-2016& KDB 971168 D01v03r01	Effective Radiated Power of Transmitter(ERP)	PASS	Appendix A)
Part 2.1051/ Part 2.1057/ Part 24.238(a)(b)	TIA-603-E-2016& KDB 971168 D01v03r012	Spurious emissions at antenna terminals	PASS	Appendix B)

Appendix A) Effective Radiated Power of Transmitter (ERP/EIRP)

Receiver Setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td>30MHz-1GHz</td><td>peak</td><td>120kHz</td><td>300kHz</td><td>Peak</td></tr><tr><td>Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak</td></tr></table>	Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	peak	120kHz	300kHz	Peak	Above 1GHz	Peak	1MHz	3MHz	Peak
Frequency	Detector	RBW	VBW	Remark												
30MHz-1GHz	peak	120kHz	300kHz	Peak												
Above 1GHz	Peak	1MHz	3MHz	Peak												
Measurement Procedure:	Test procedure as below: 1) The EUT was powered ON and placed on a 0.8m high table at a 3 meter fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test. 2) The EUT was set 3 meters(above 18GHz the distance is 1 meter) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made. 4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization. 5) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter. 6) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 3) is obtained for this set of conditions. 7) The output power into the substitution antenna was then measured. 8) Steps 6) and 7)were repeated with both antennas polarized. 9) Calculate power in dBm by the following formula: E.I.R.P = Output power level of S.G - TX cable lose + Antenna gain of substitution horn E.R.P=E.I.R.P-2.15dB where: Pg is the generator output power into the substitution antenna. 10) Test the EUT in the lowest channel, the middle channel the Highest channel 11) The radiation measurements are performed in X, Y, Z axis positioning for EUT operation mode,And found the X axis positioning which it is worse case. 12) Repeat above procedures until all frequencies measured was complete.															
Limit:	<table><tr><td>Mode</td><td>LTE Band 2</td></tr><tr><td>Limit</td><td>33.01dBm (2W)</td></tr></table>	Mode	LTE Band 2	Limit	33.01dBm (2W)											
Mode	LTE Band 2															
Limit	33.01dBm (2W)															

Measurement Data

LTE Band 2										
Channel Bandwidth	Modulation	CH	Frequency (MHz)	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.I.R.P		Limit (W)
				Size	Offset			(dBm)	(W)	
1.4M	QPSK	18607	1850.6751	1	0	15.95	1.42	16.95	0.04955	<2
3MHz	QPSK	18615	1850.7651	1	0	15.88	1.42	16.88	0.04875	<2
5MHz	QPSK	18625	1852.5353	1	0	15.69	1.42	16.69	0.04667	<2
10MHz	QPSK	18650	1857.2607	1	0	15.46	1.42	16.46	0.04426	<2
15MHz	QPSK	18675	1854.2604	1	0	14.48	1.42	15.48	0.03532	<2
20MHz	QPSK	19100	1902.6403	1	0	14.18	1.42	15.18	0.03296	<2

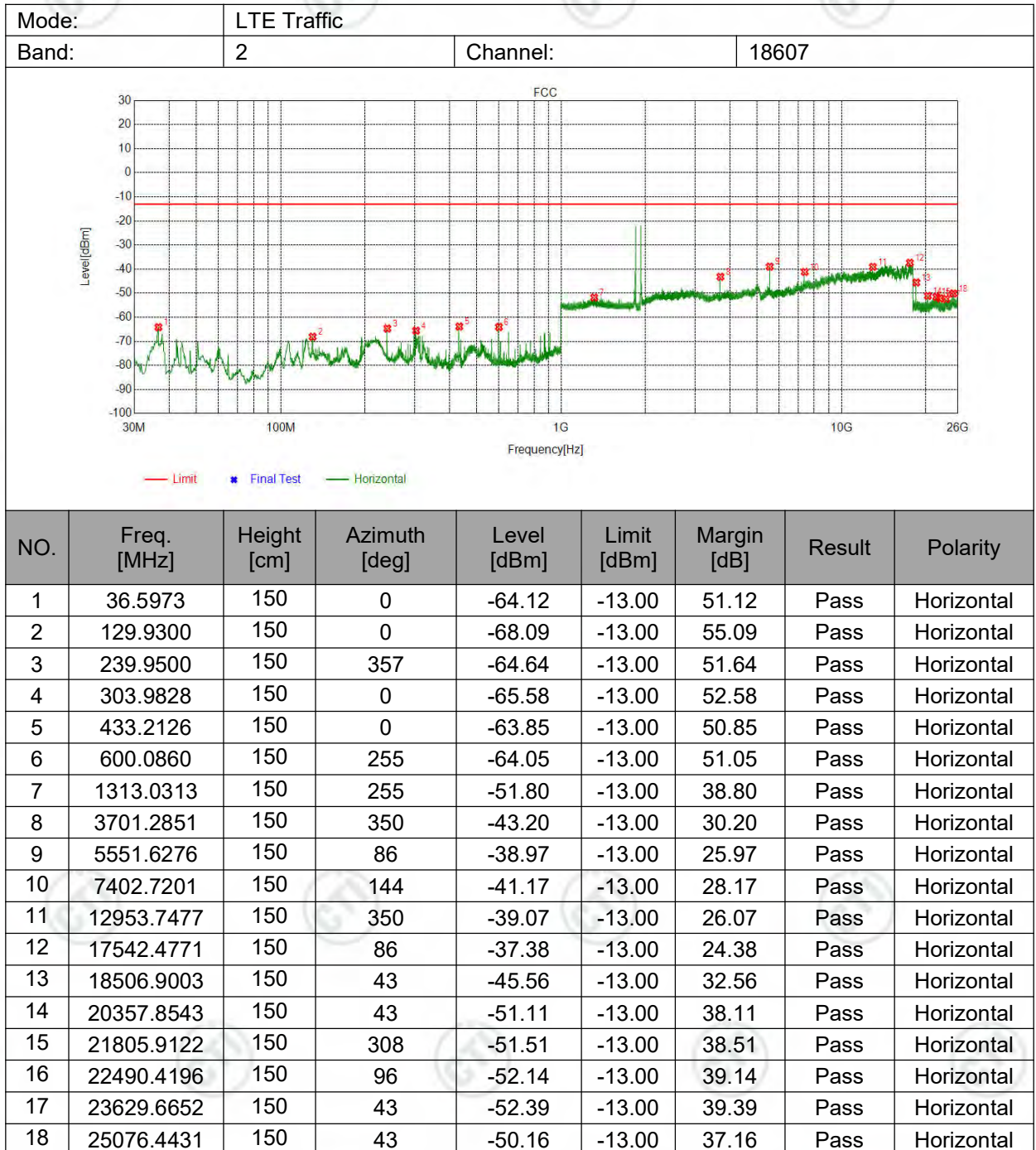
Note:TX cable lose=0.42dB

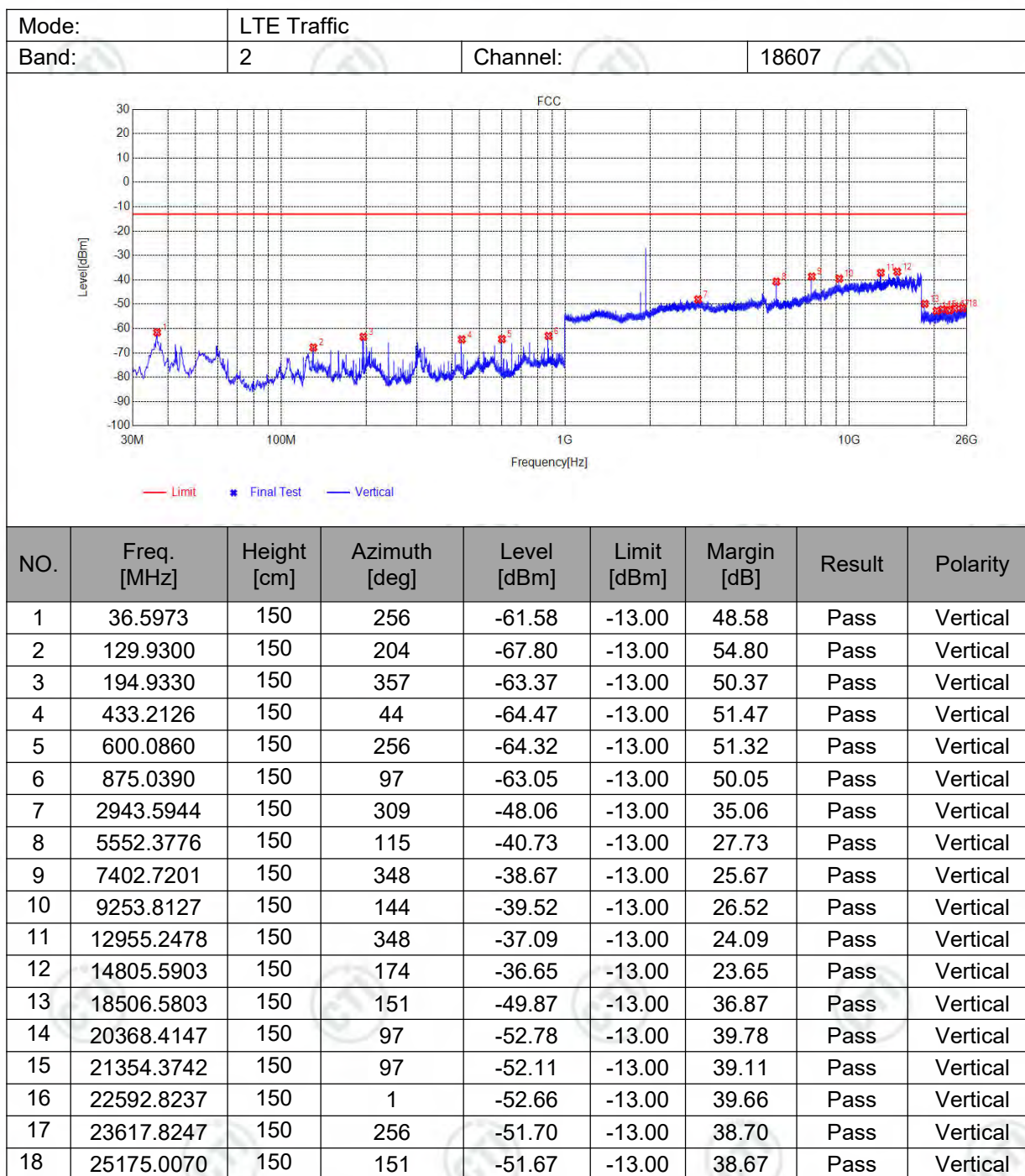
Appendix B: Field strength of spurious radiation

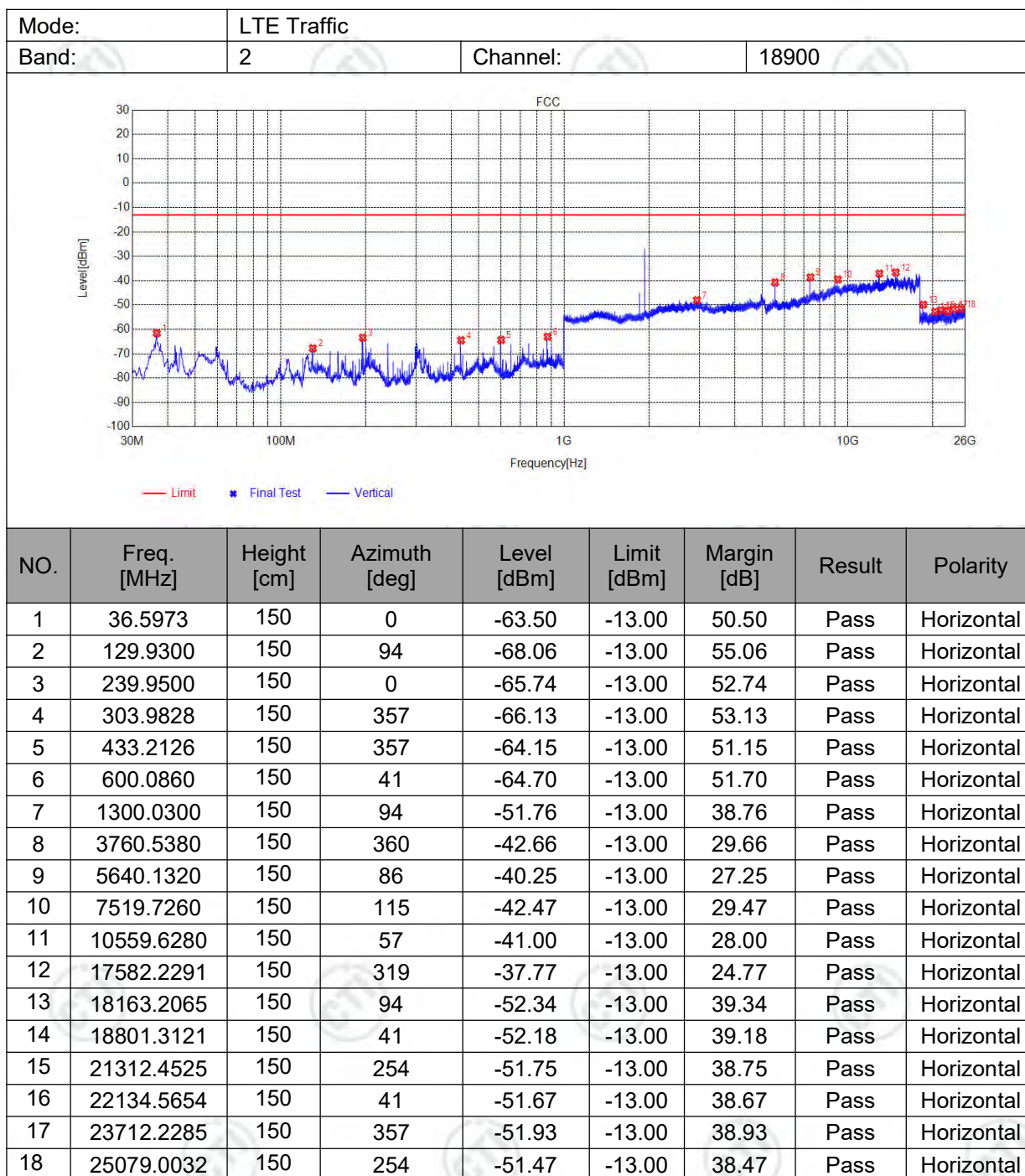
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-30MHz	Peak	10kHz	30kHz	Peak
	30MHz-1GHz	Peak	120kHz	300kHz	Peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Measurement Procedure:	1. Scan up to 10th harmonic, find the maximum radiation frequency to measure. 2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT. Test procedure as below: 1) The EUT was powered ON and placed on a 1.5m high table at a 3 meter fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test. 2) The EUT was set 3 meters(above 18GHz the distance is 1 meter) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made. 4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization. 5) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter. 6) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 3) is obtained for this set of conditions. 7) The output power into the substitution antenna was then measured. 8) Steps 6) and 7) were repeated with both antennas polarized. 9) Calculate power in dBm by the following formula: $\text{ERP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBd)}$ $\text{EIRP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$ $\text{EIRP} = \text{ERP} + 2.15\text{dB}$ where: Pg is the generator output power into the substitution antenna. 10) Test the EUT in the lowest channel, the middle channel the Highest channel 11) The radiation measurements are performed in X, Y, Z axis positioning for EUT operation mode, And found the X axis positioning which it is worse case. 12) Repeat above procedures until all frequencies measured was complete.				
Limit:	Attenuated at least 43+10log(P)				

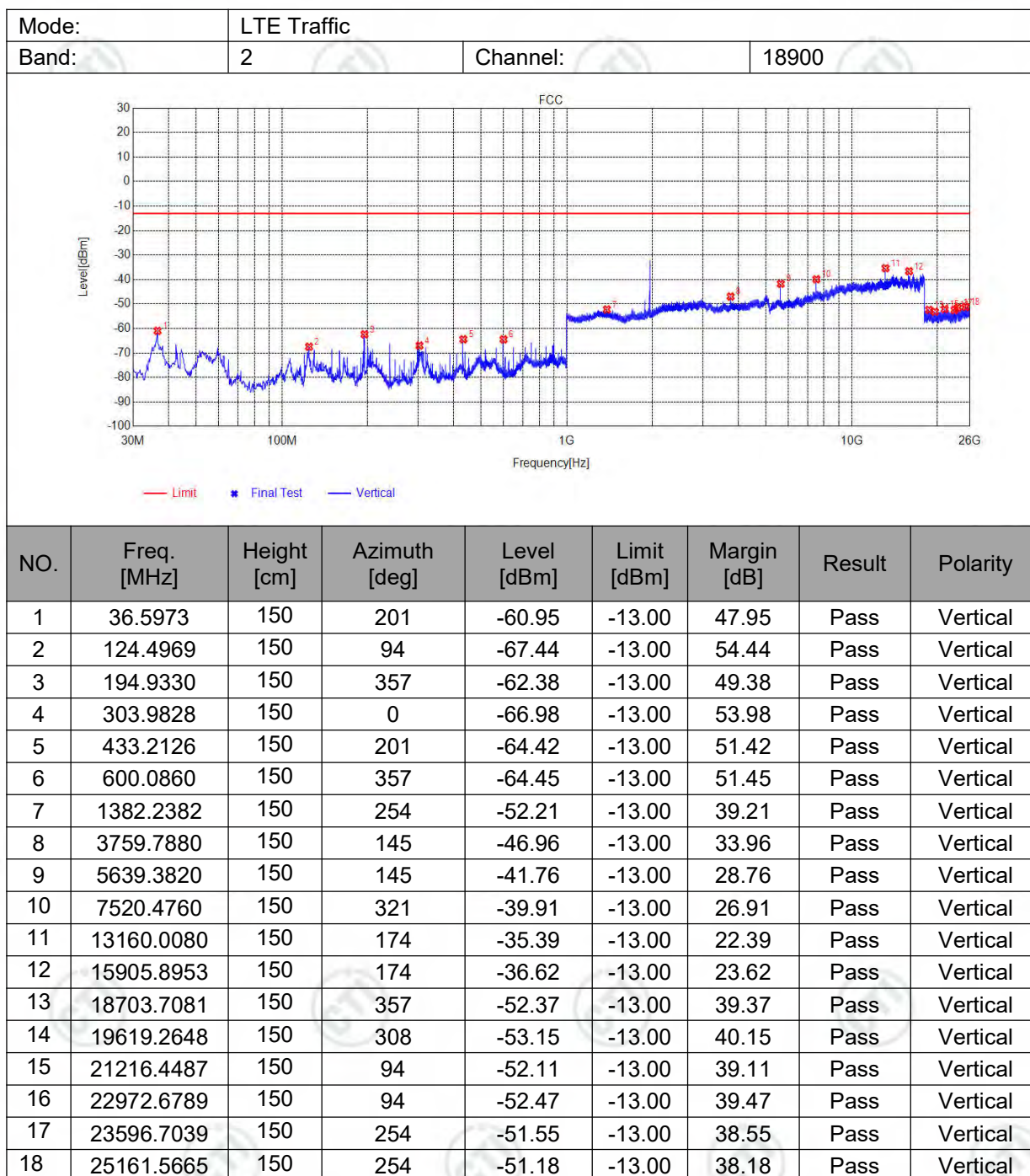
Test Data:

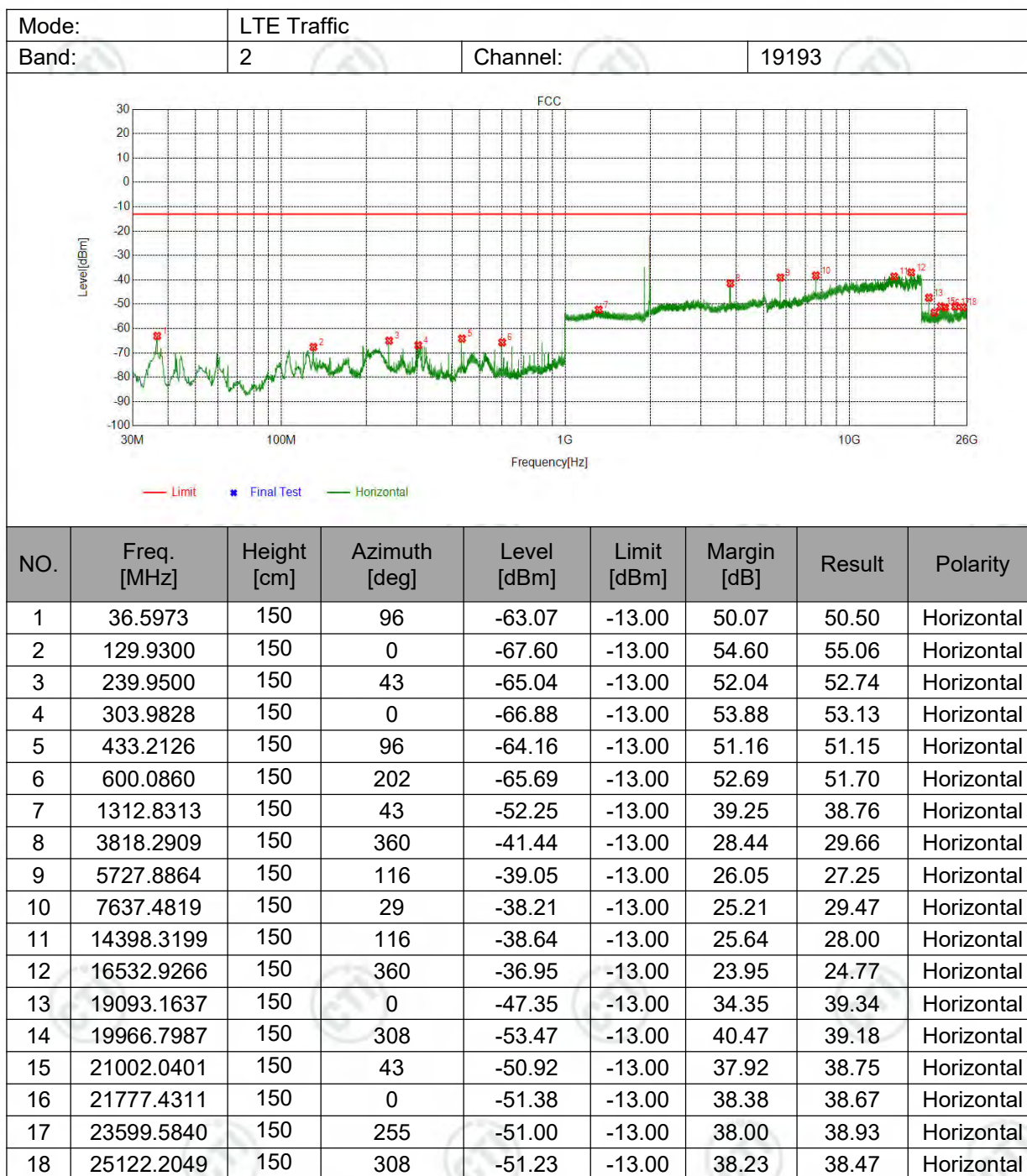
QPSK:

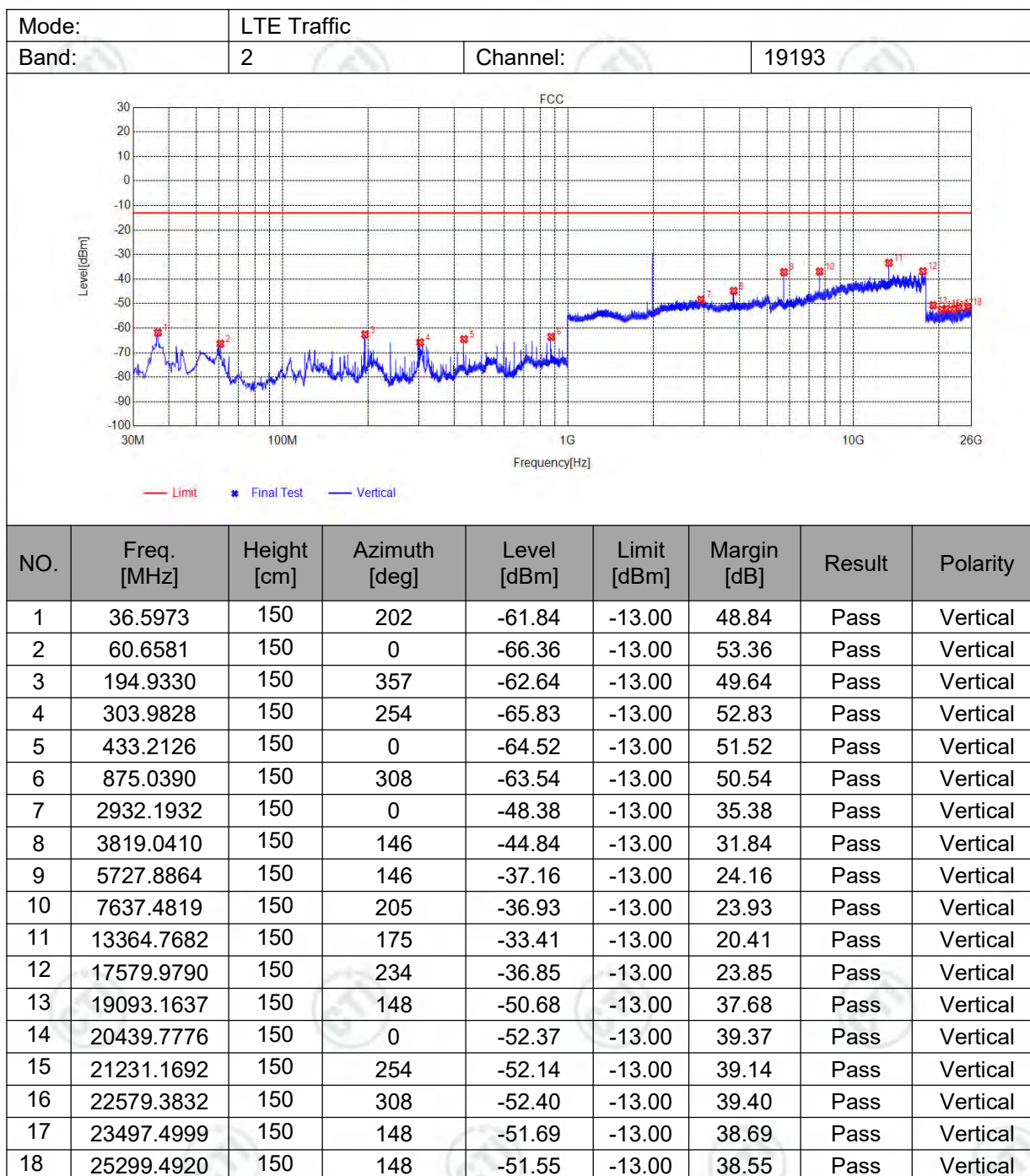


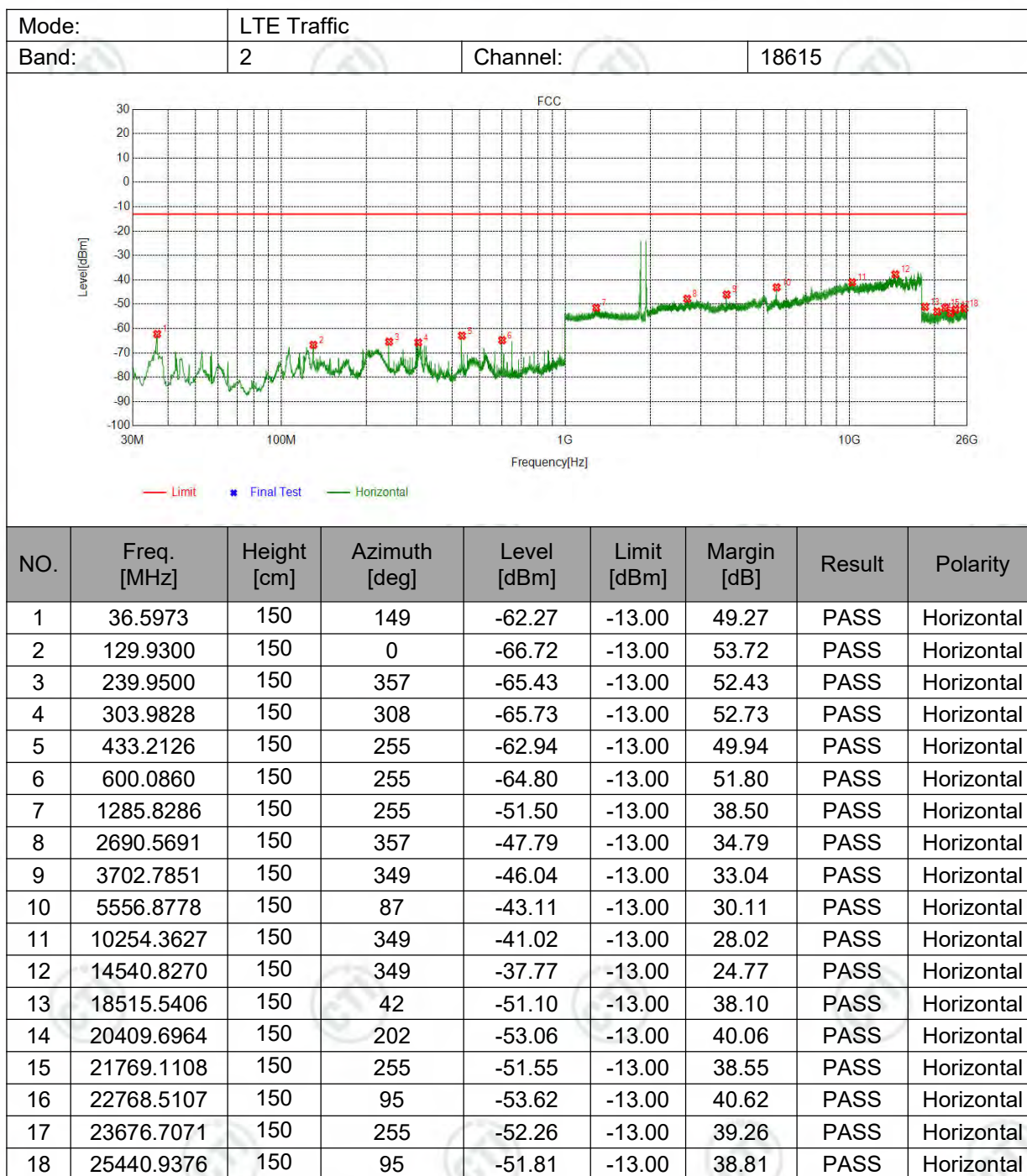


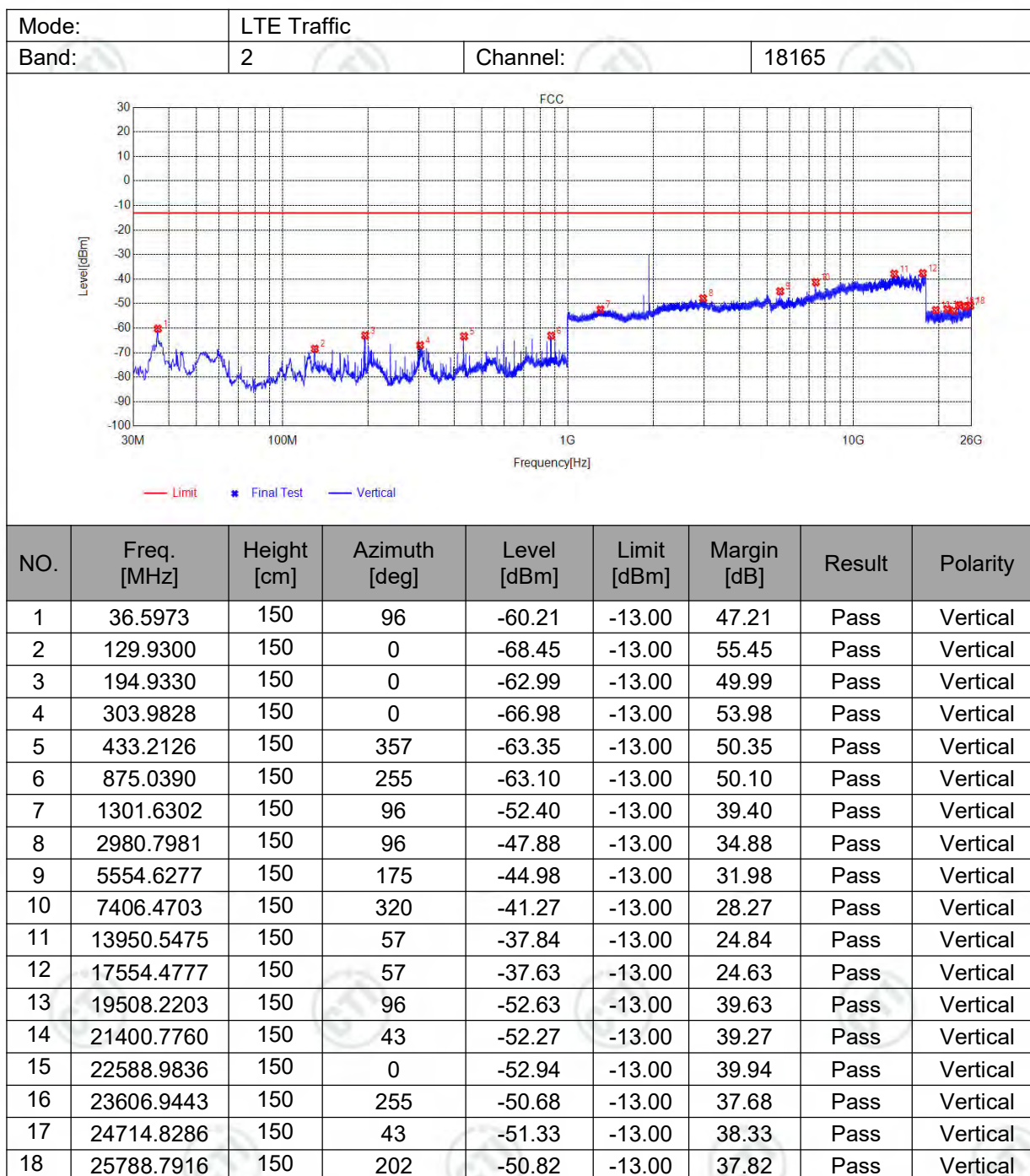


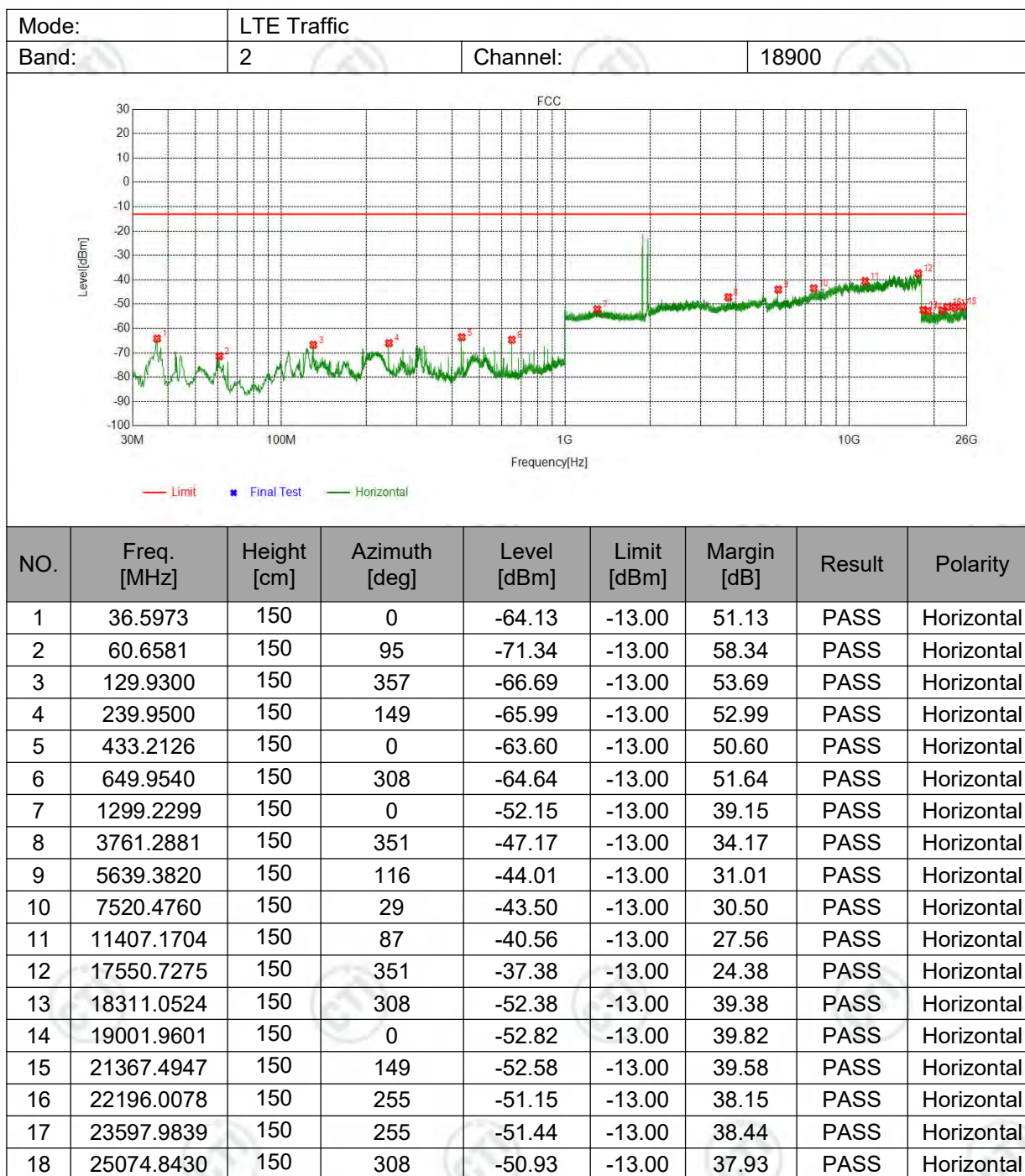


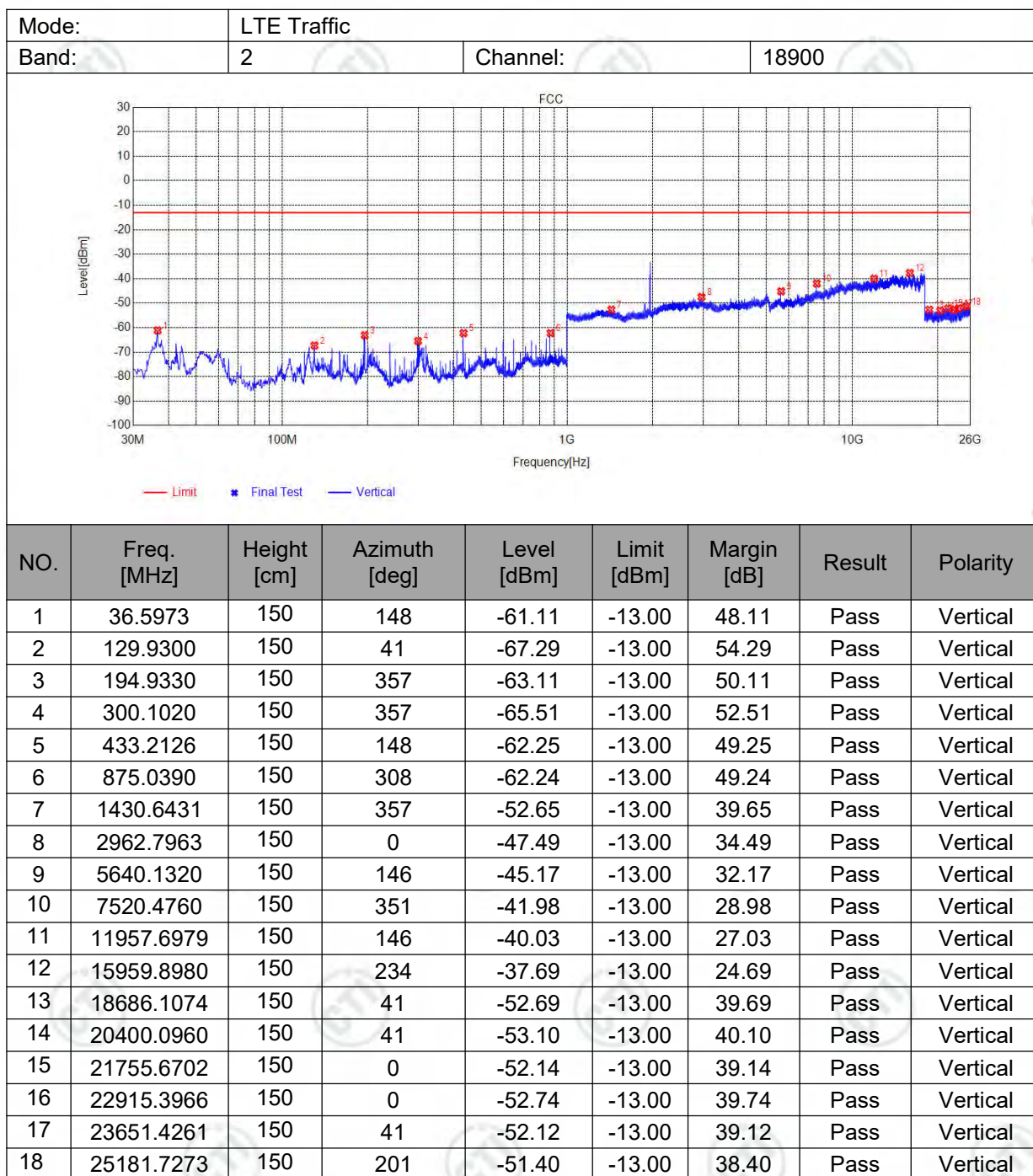


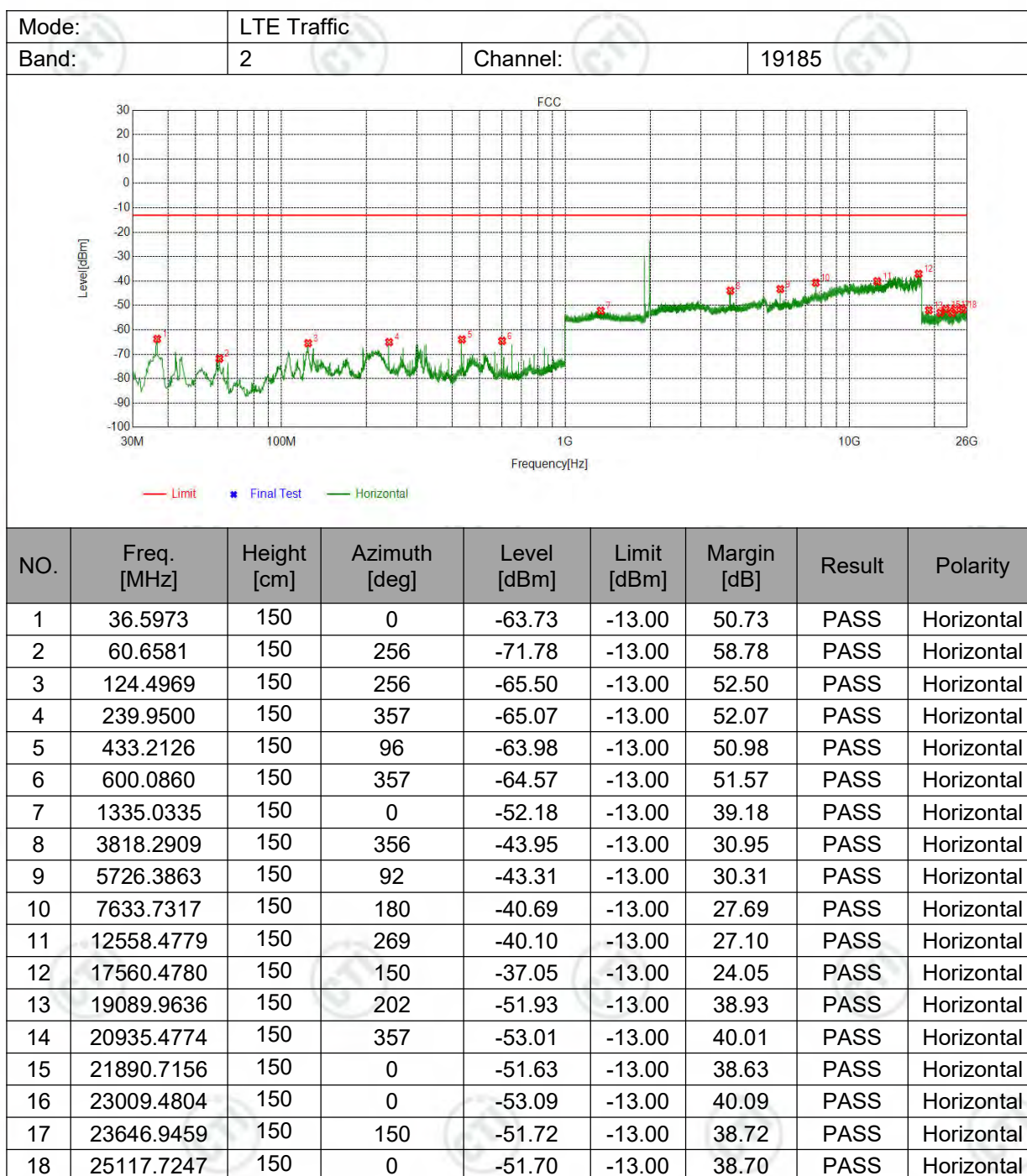


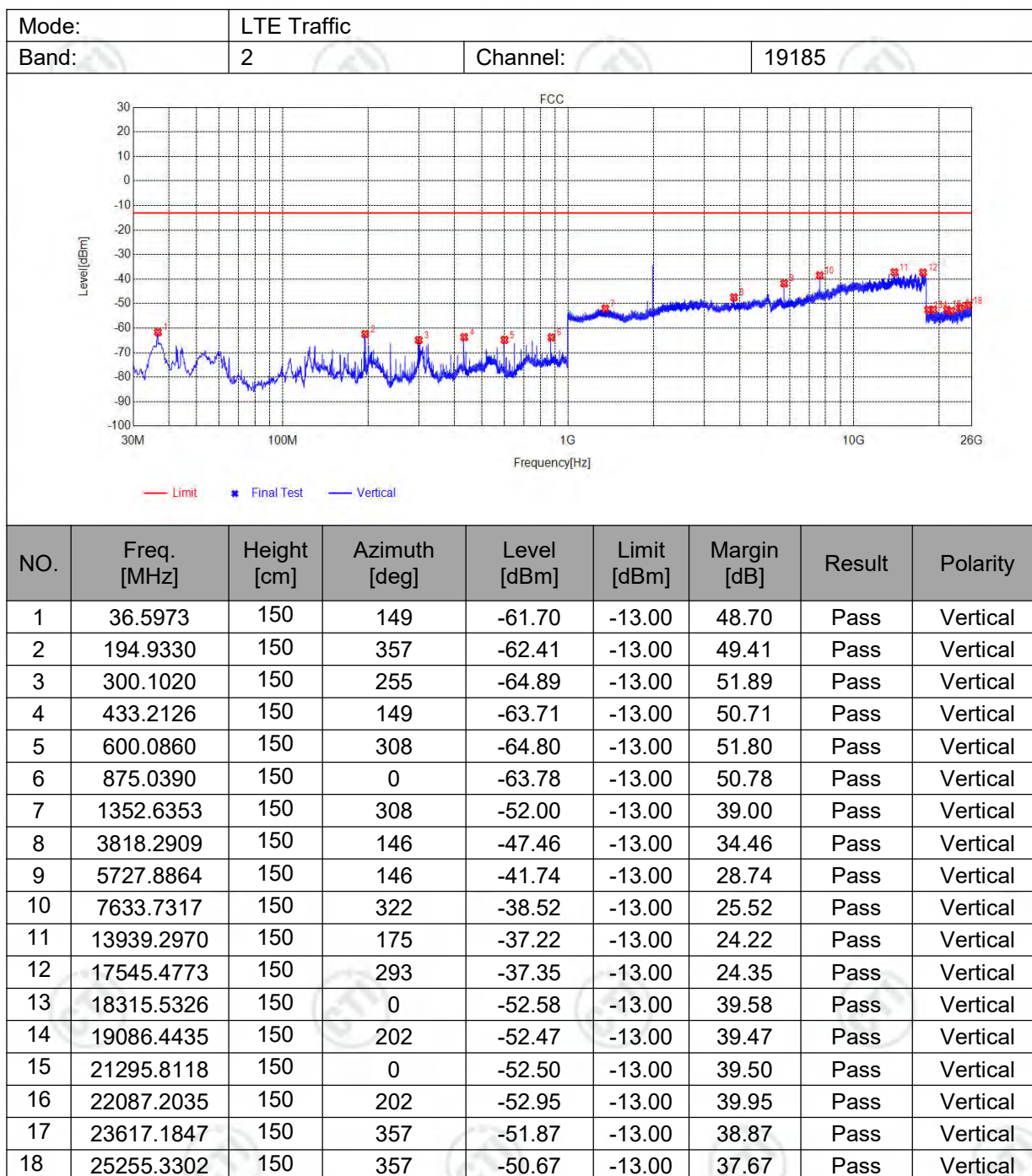


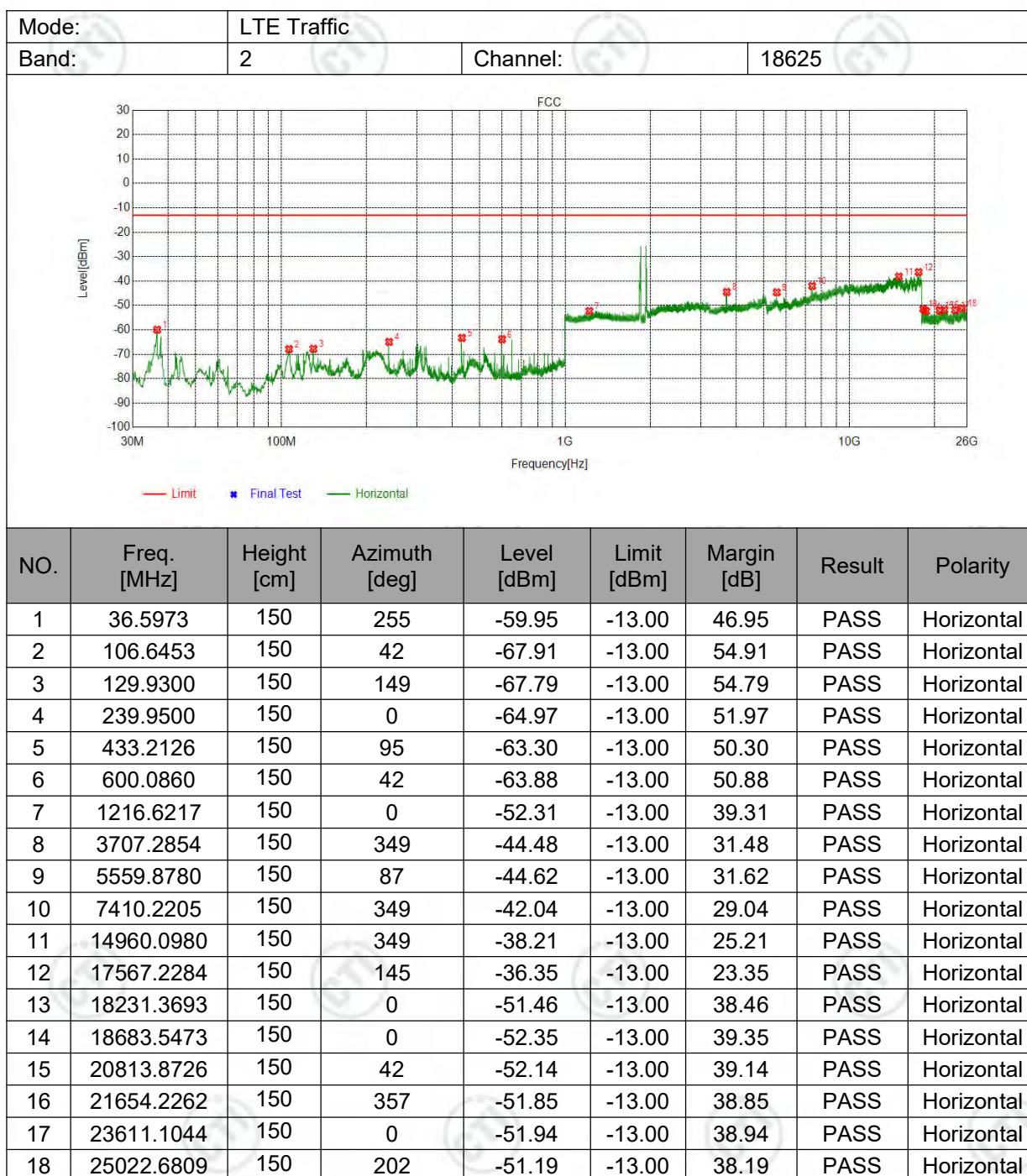


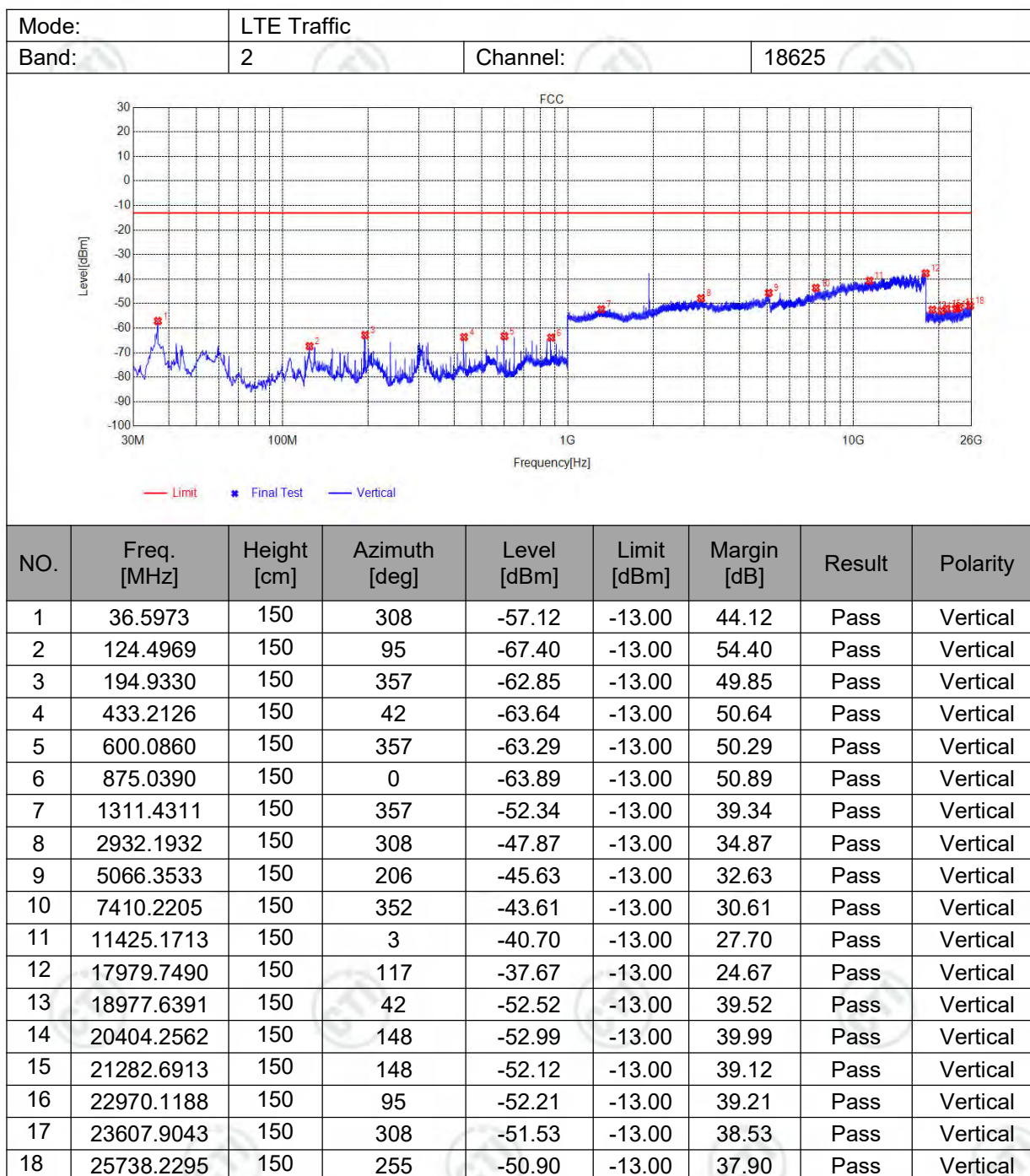


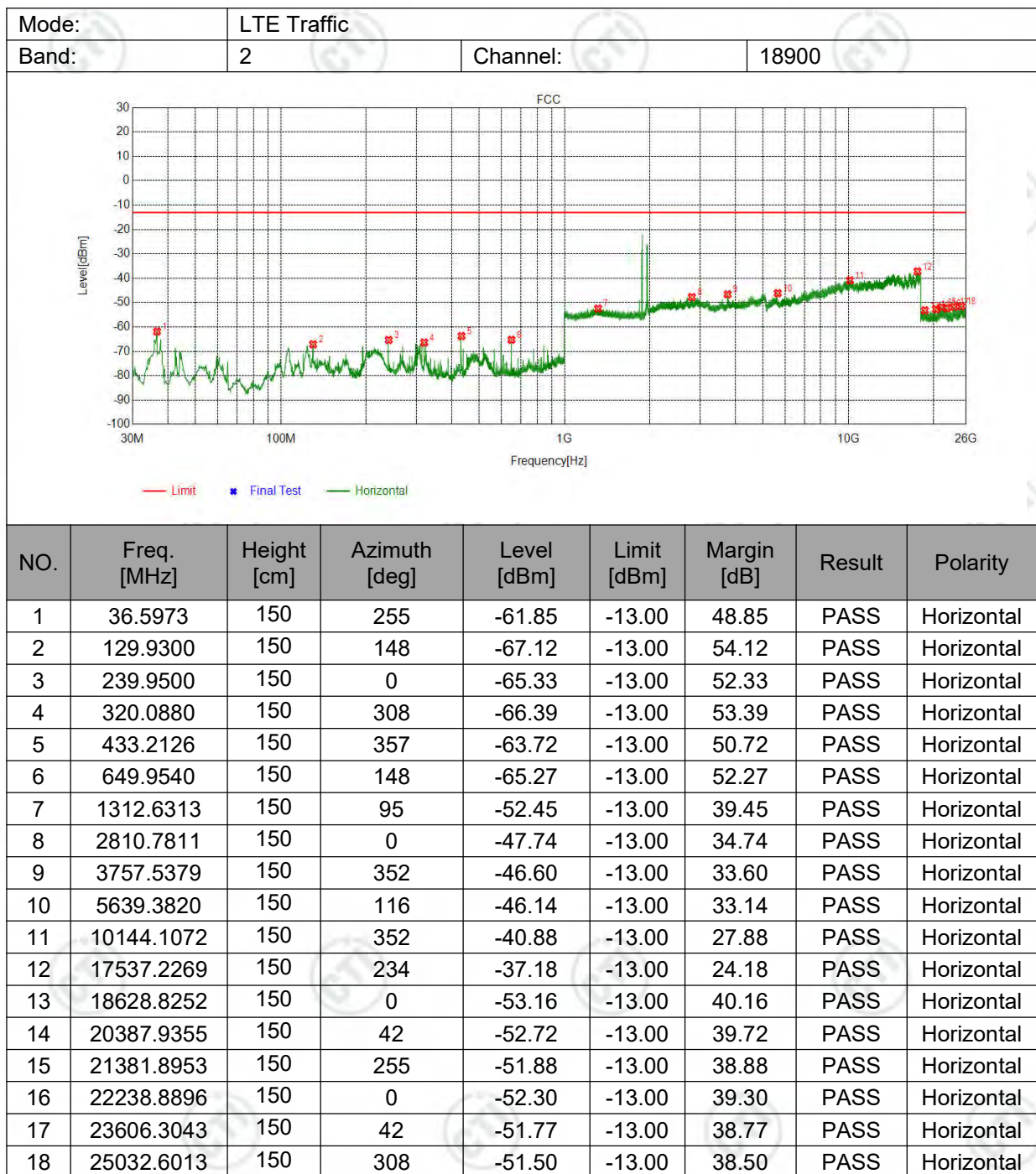


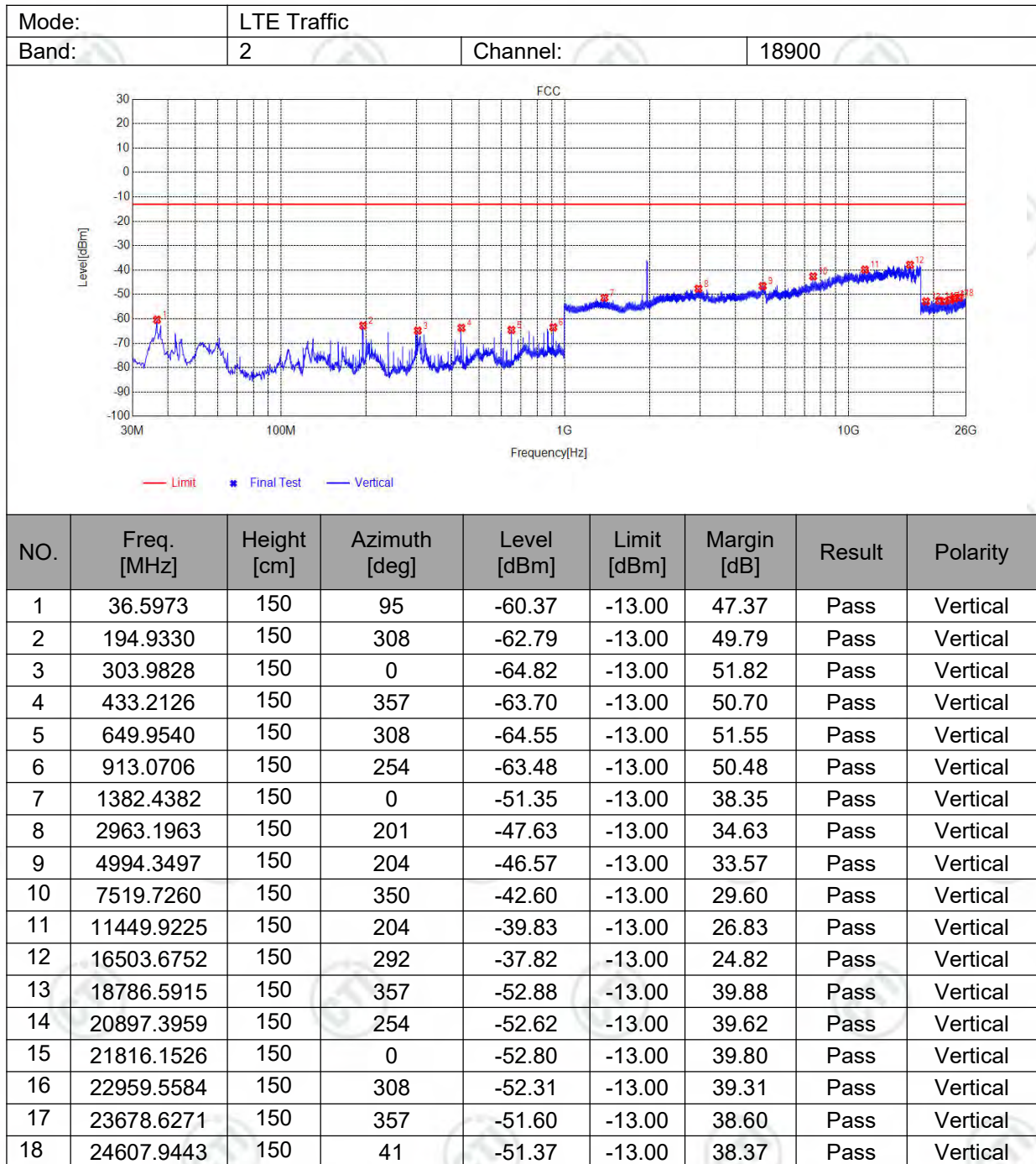


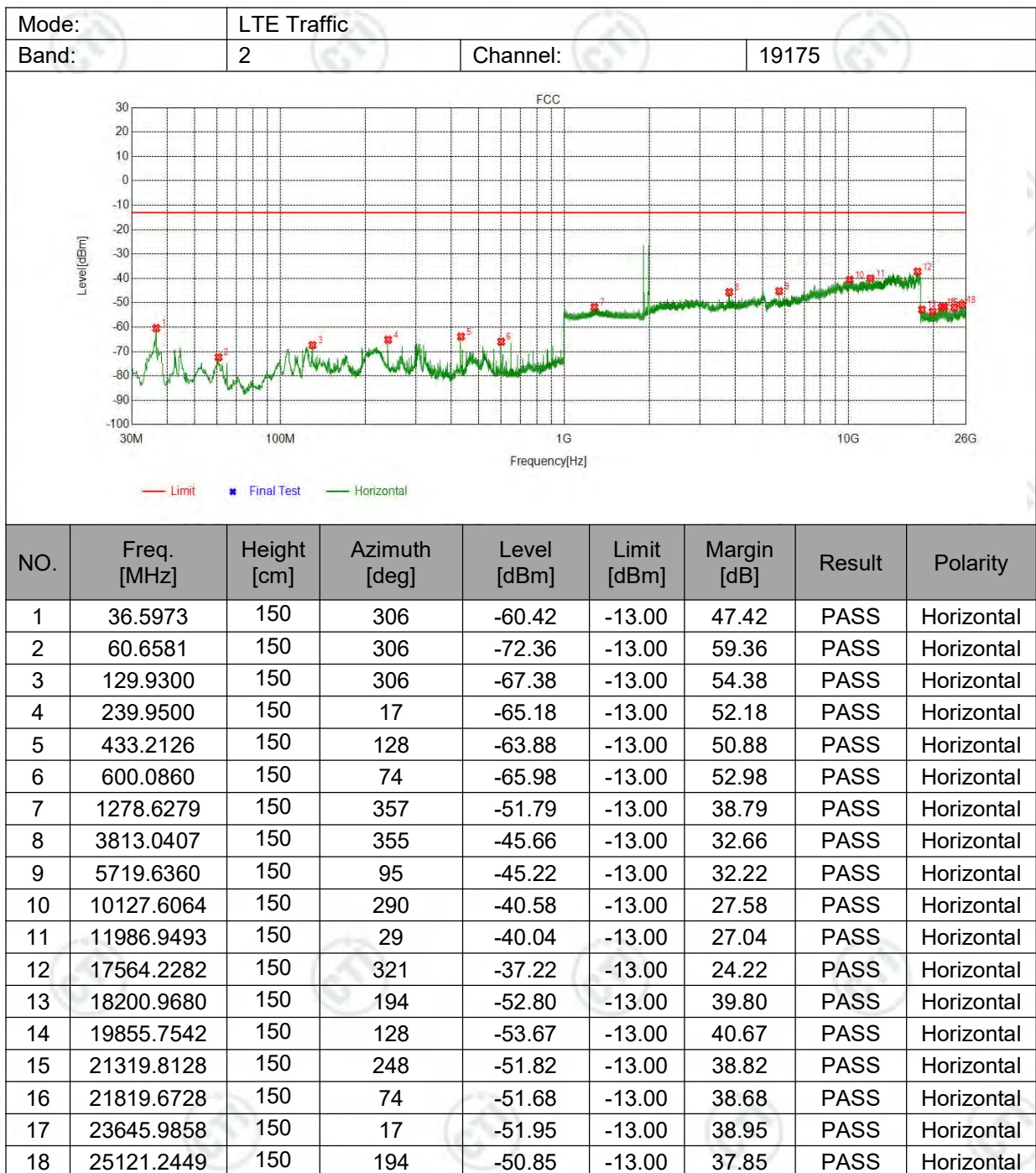


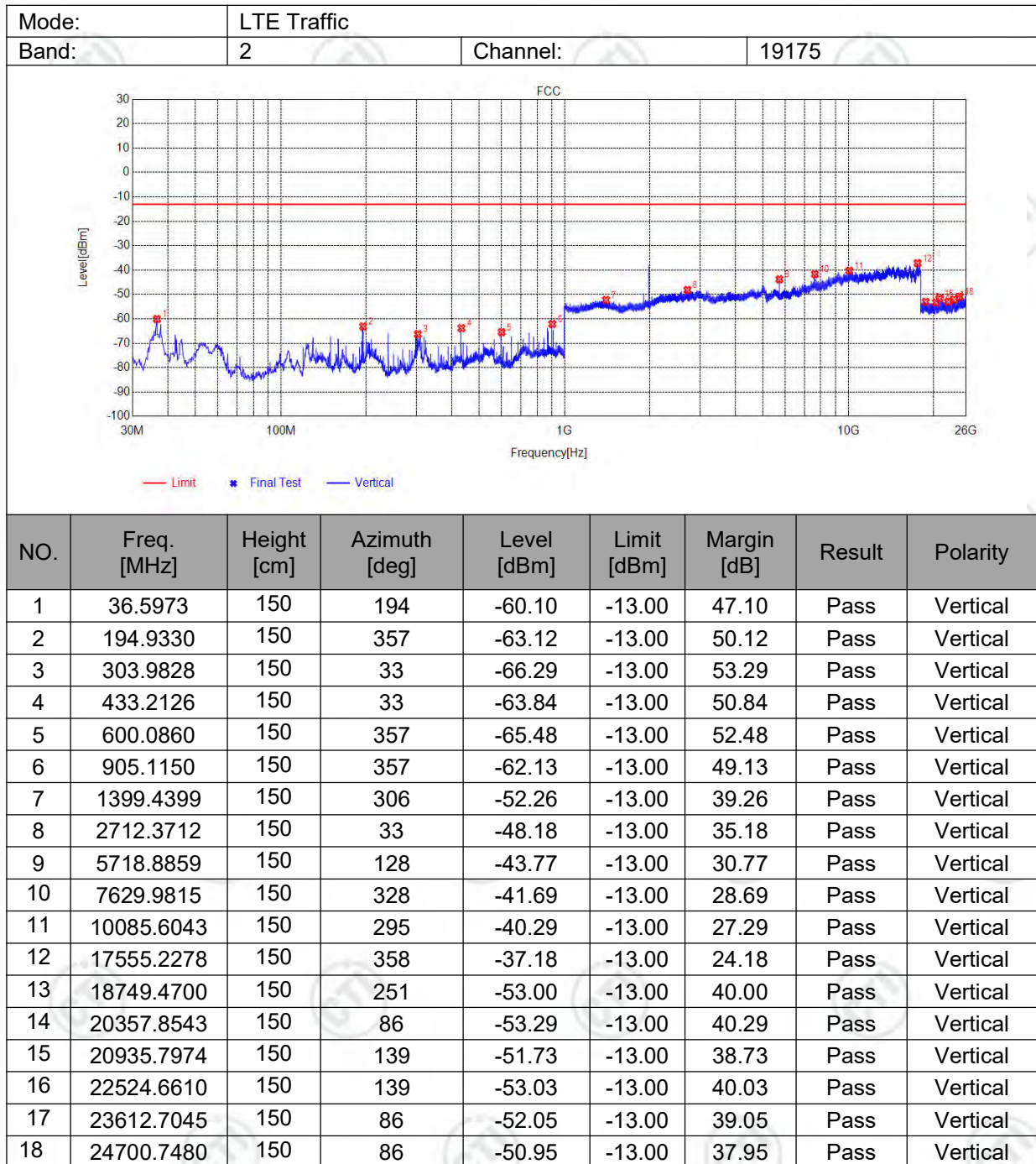


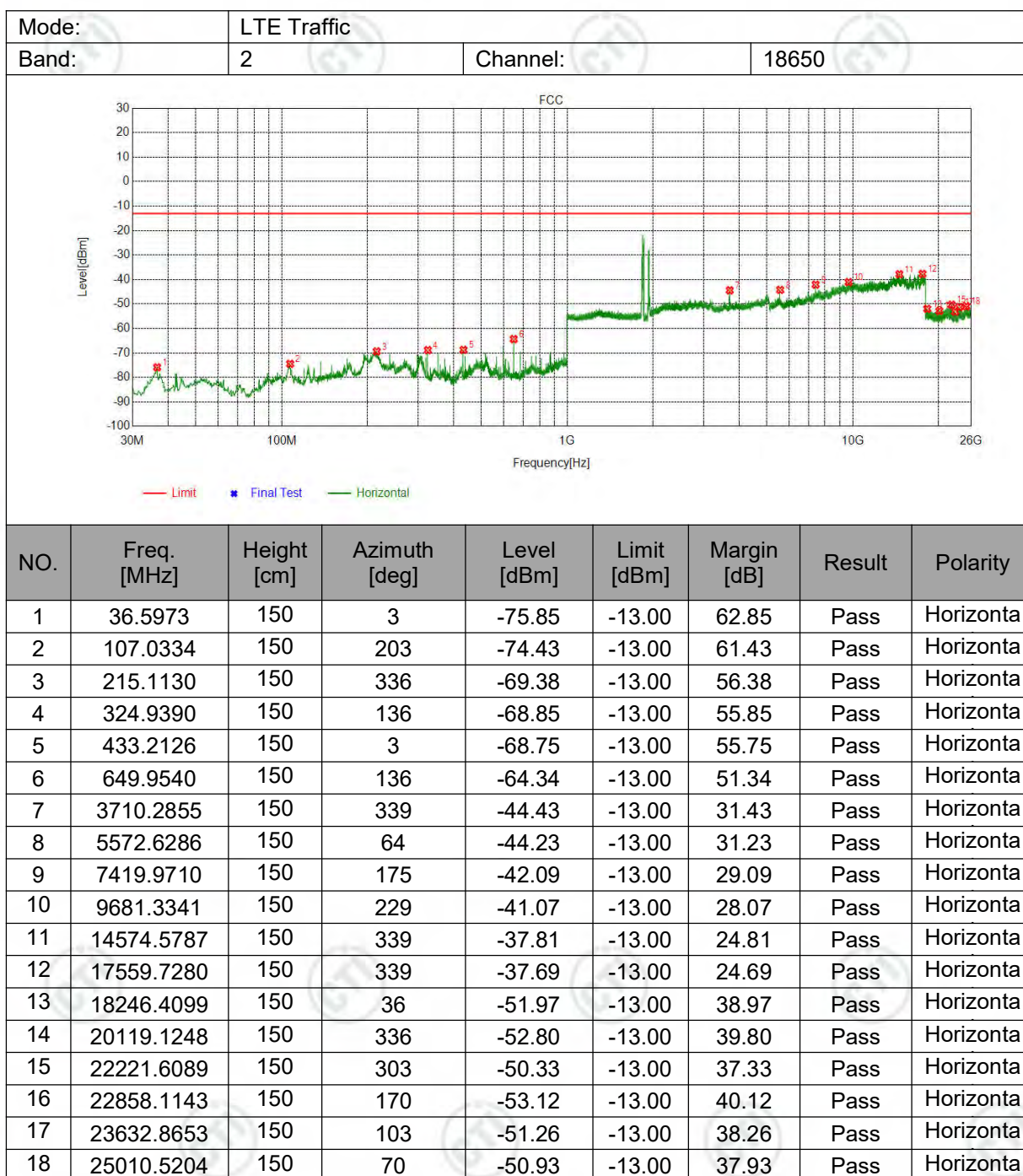


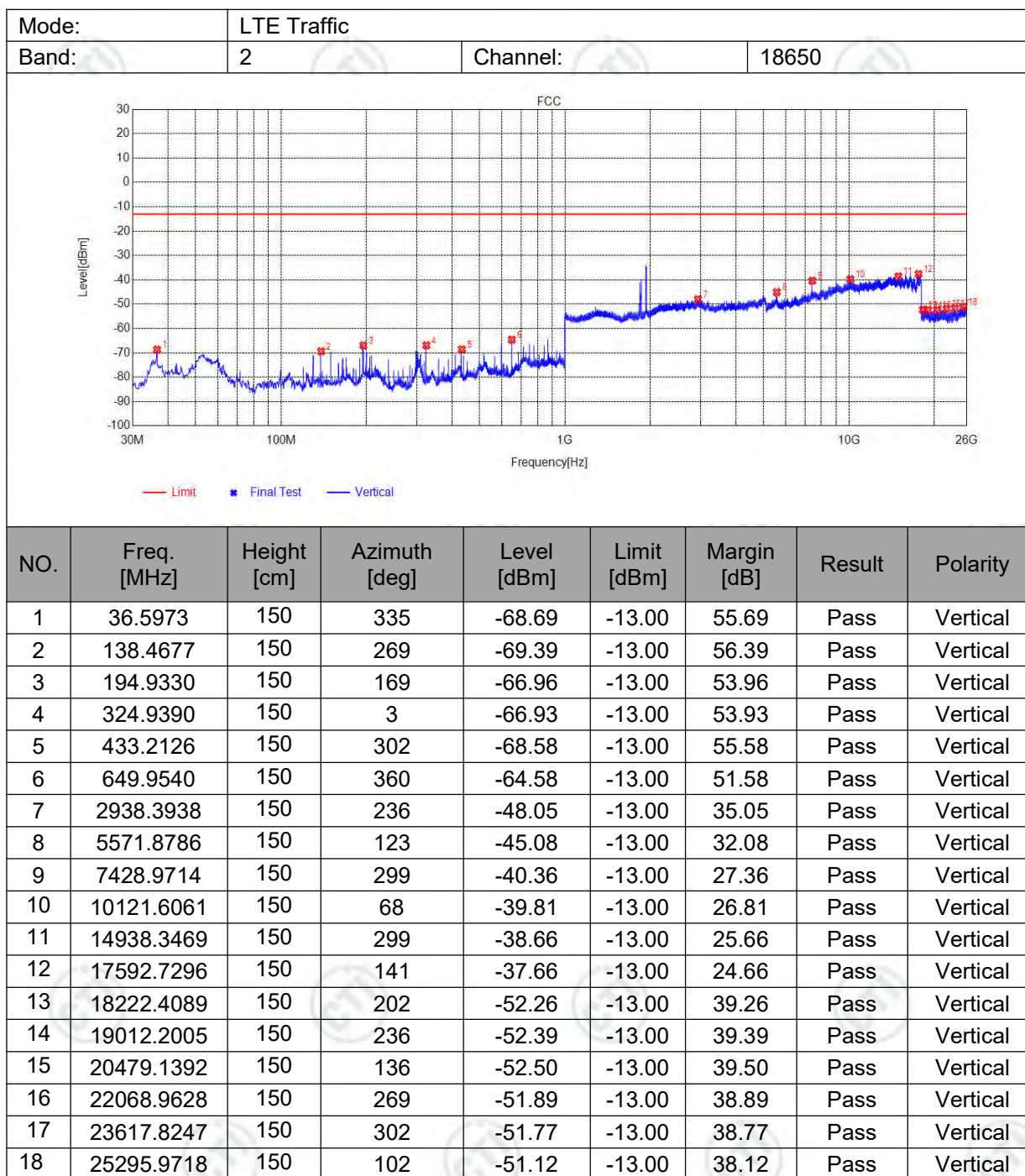


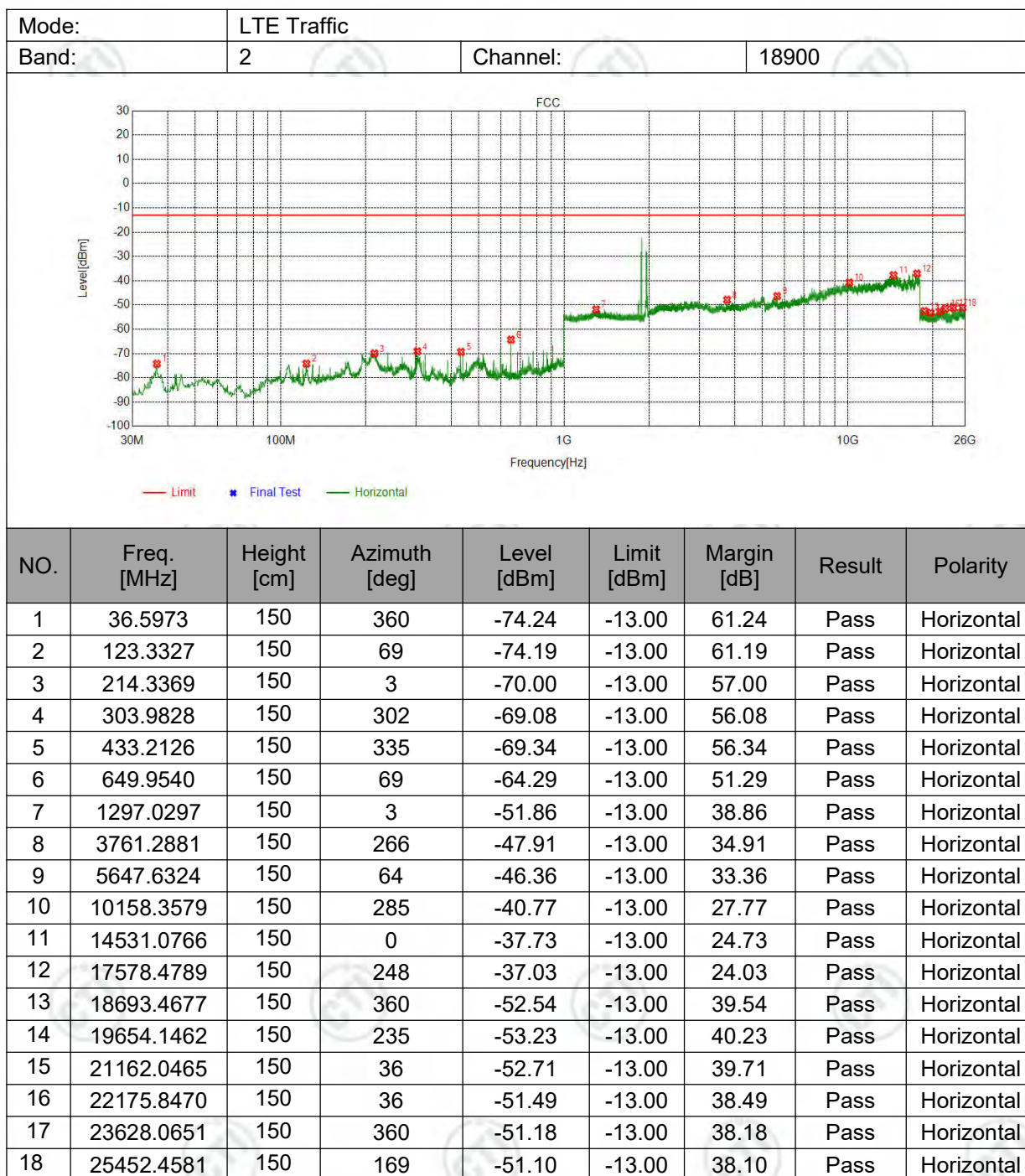


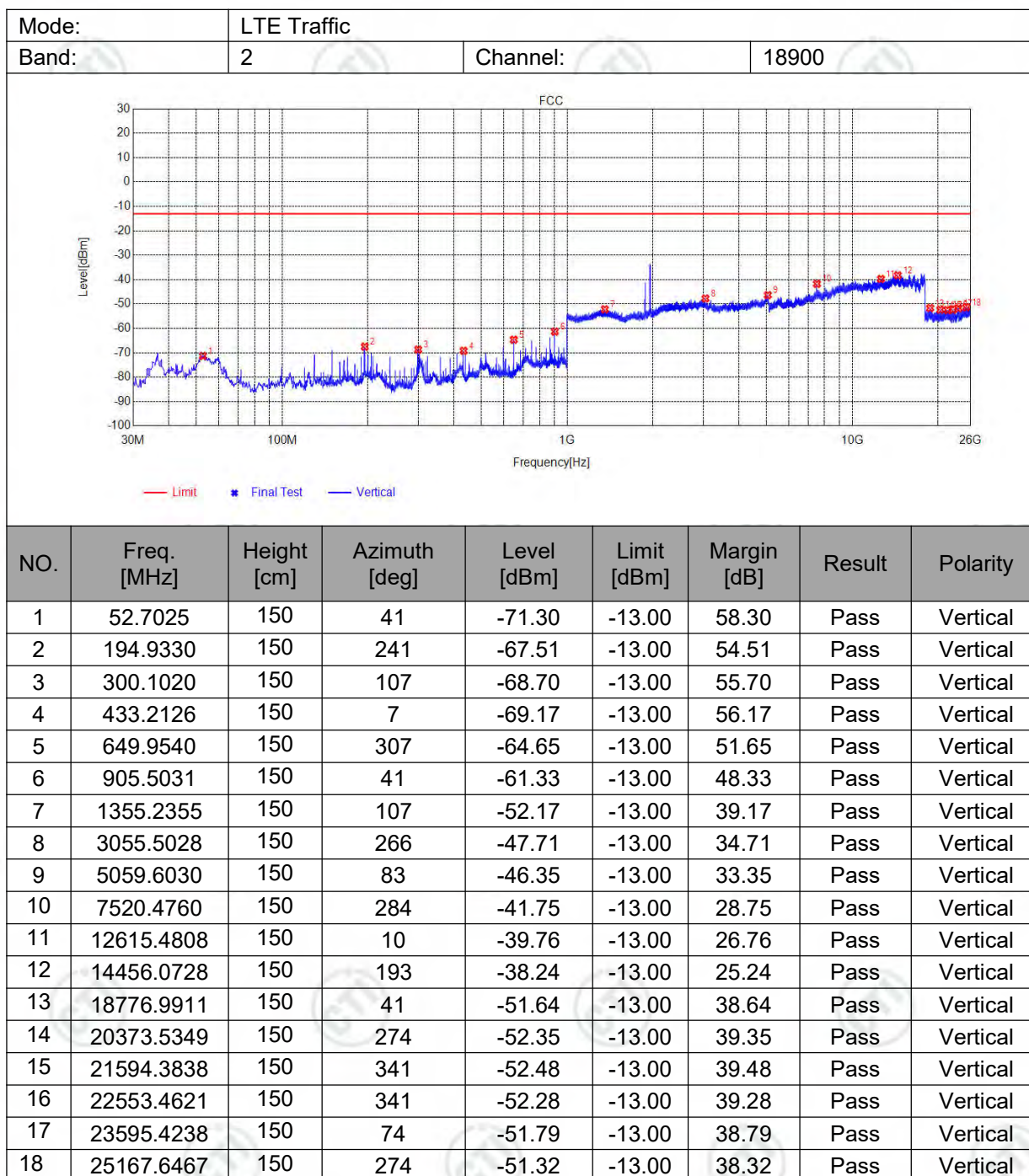


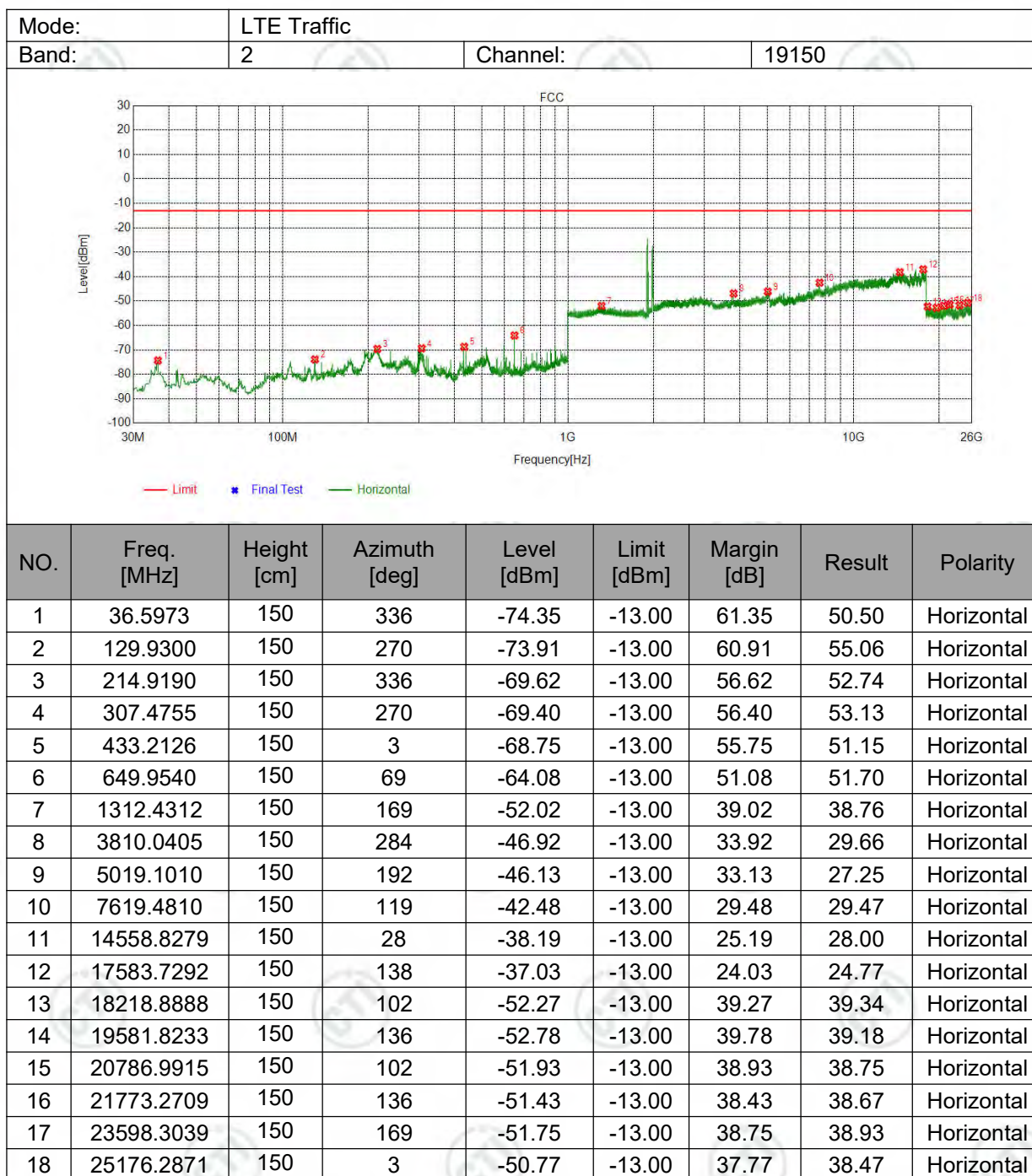


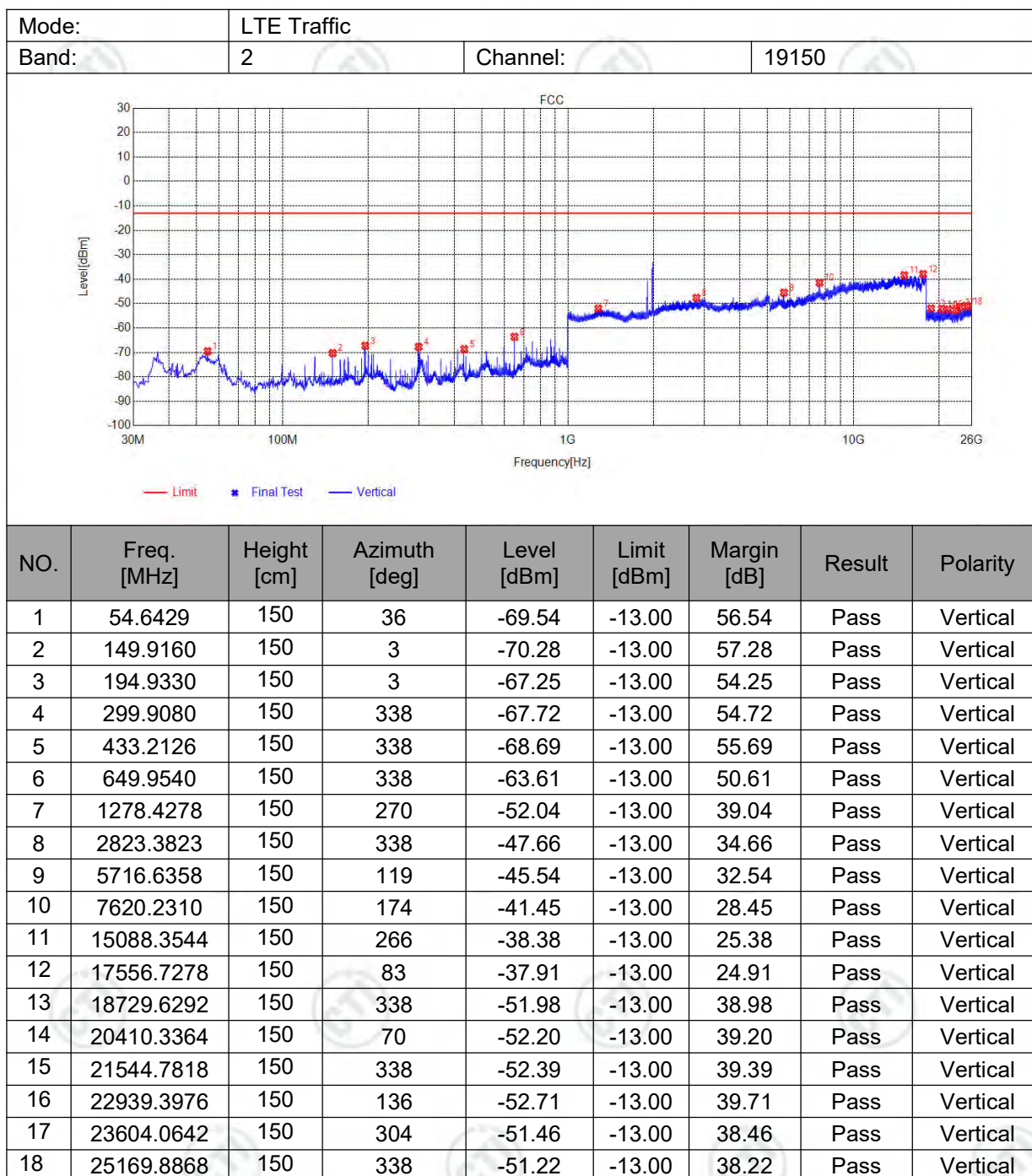


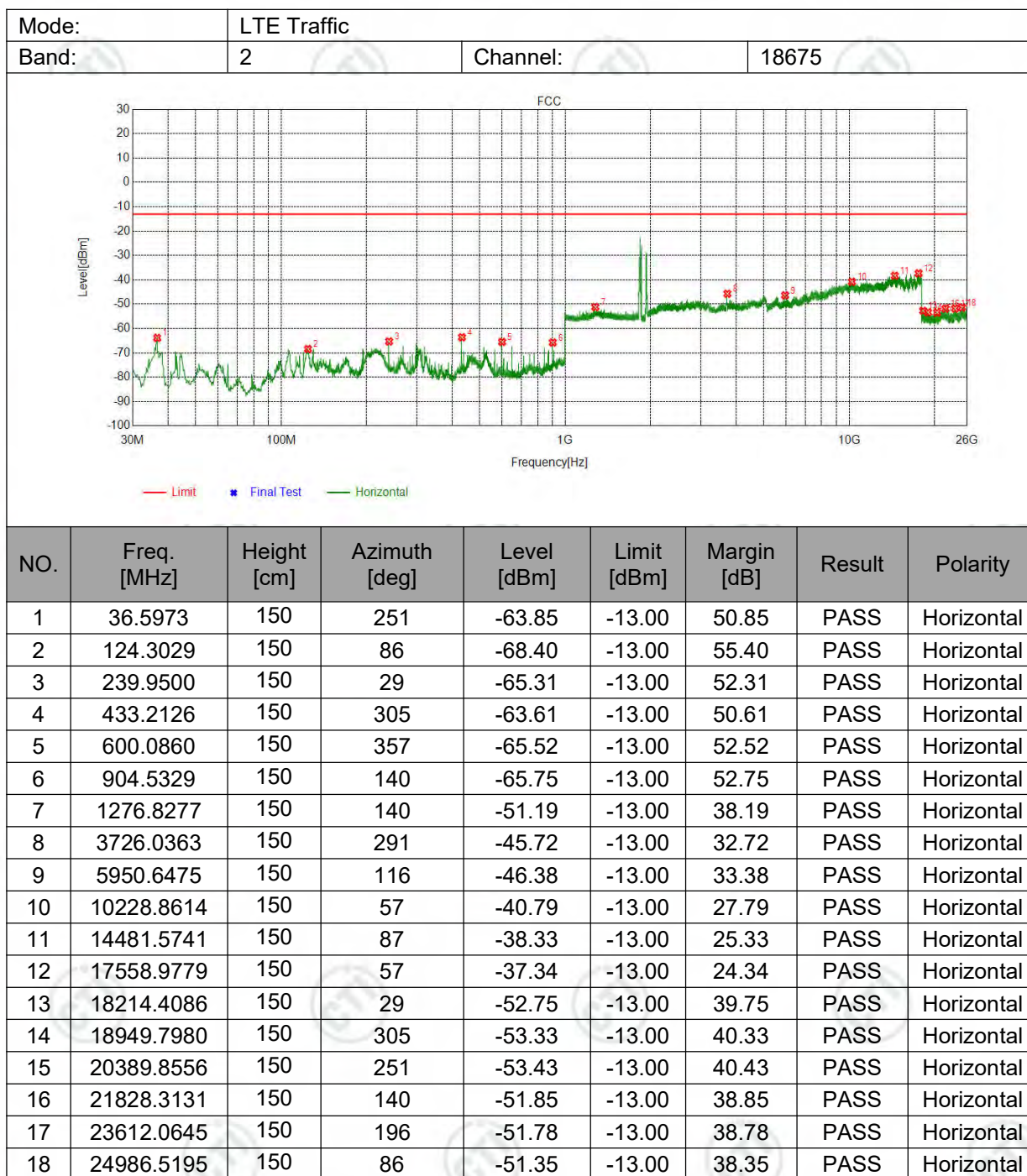


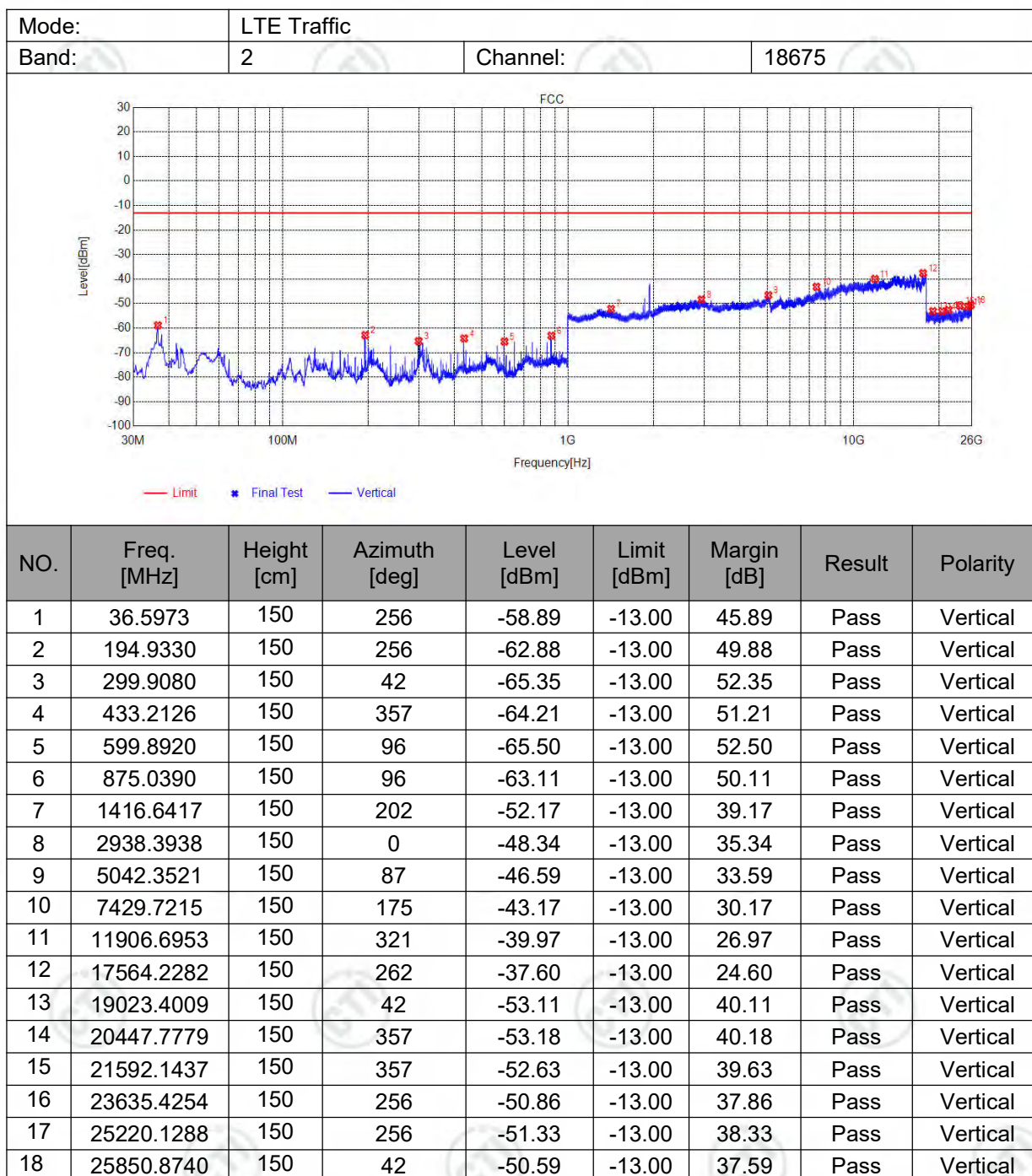


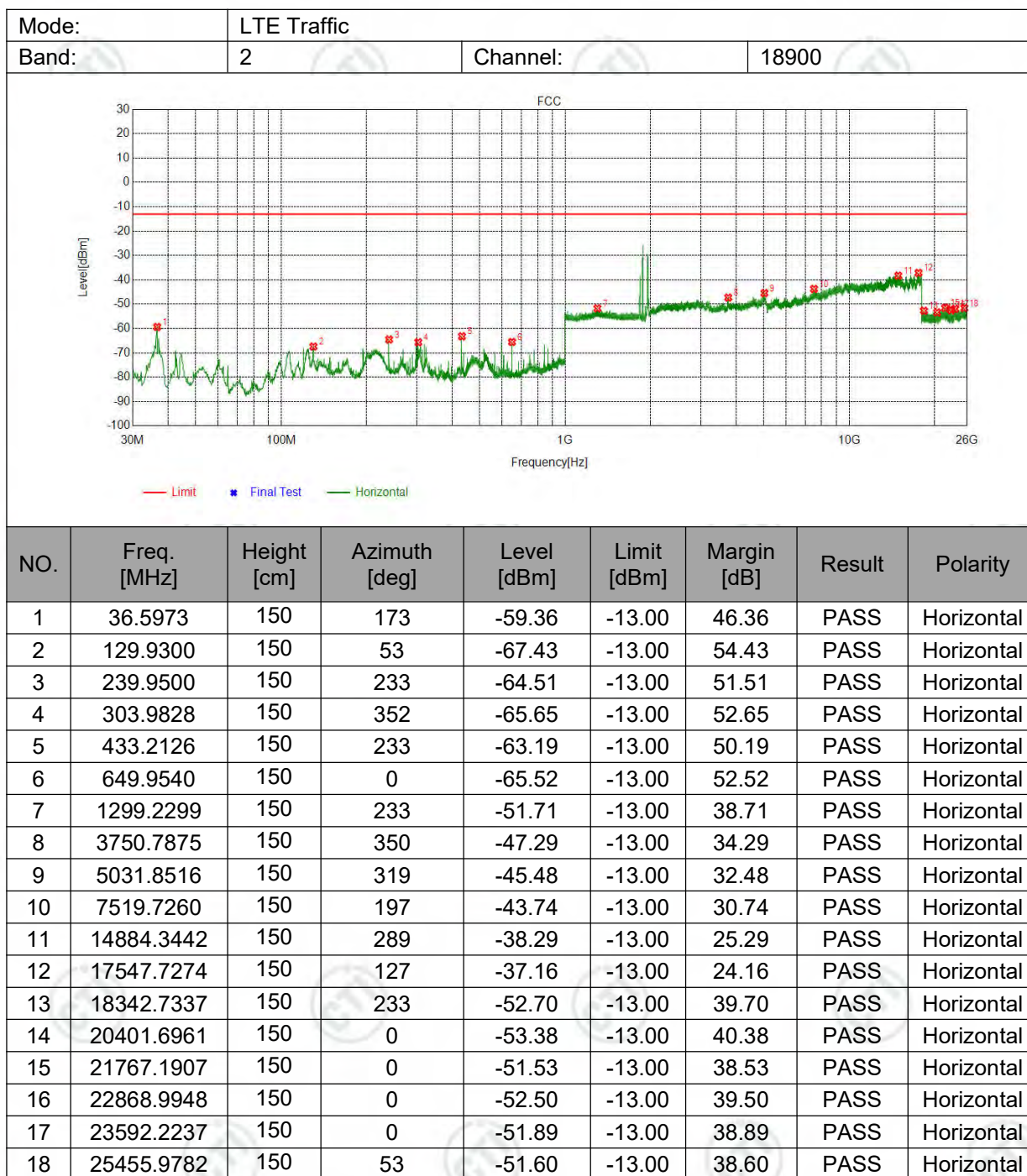


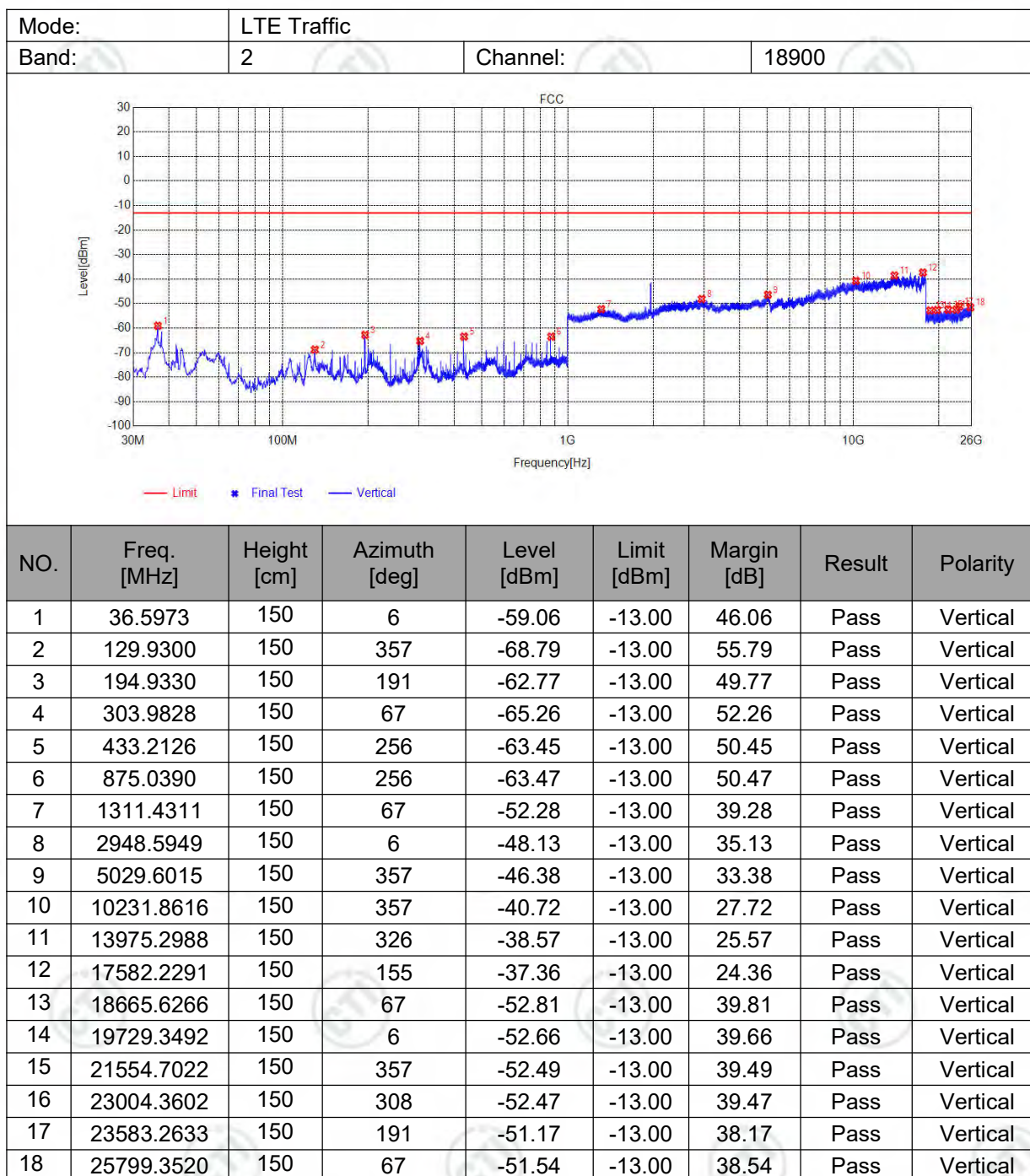


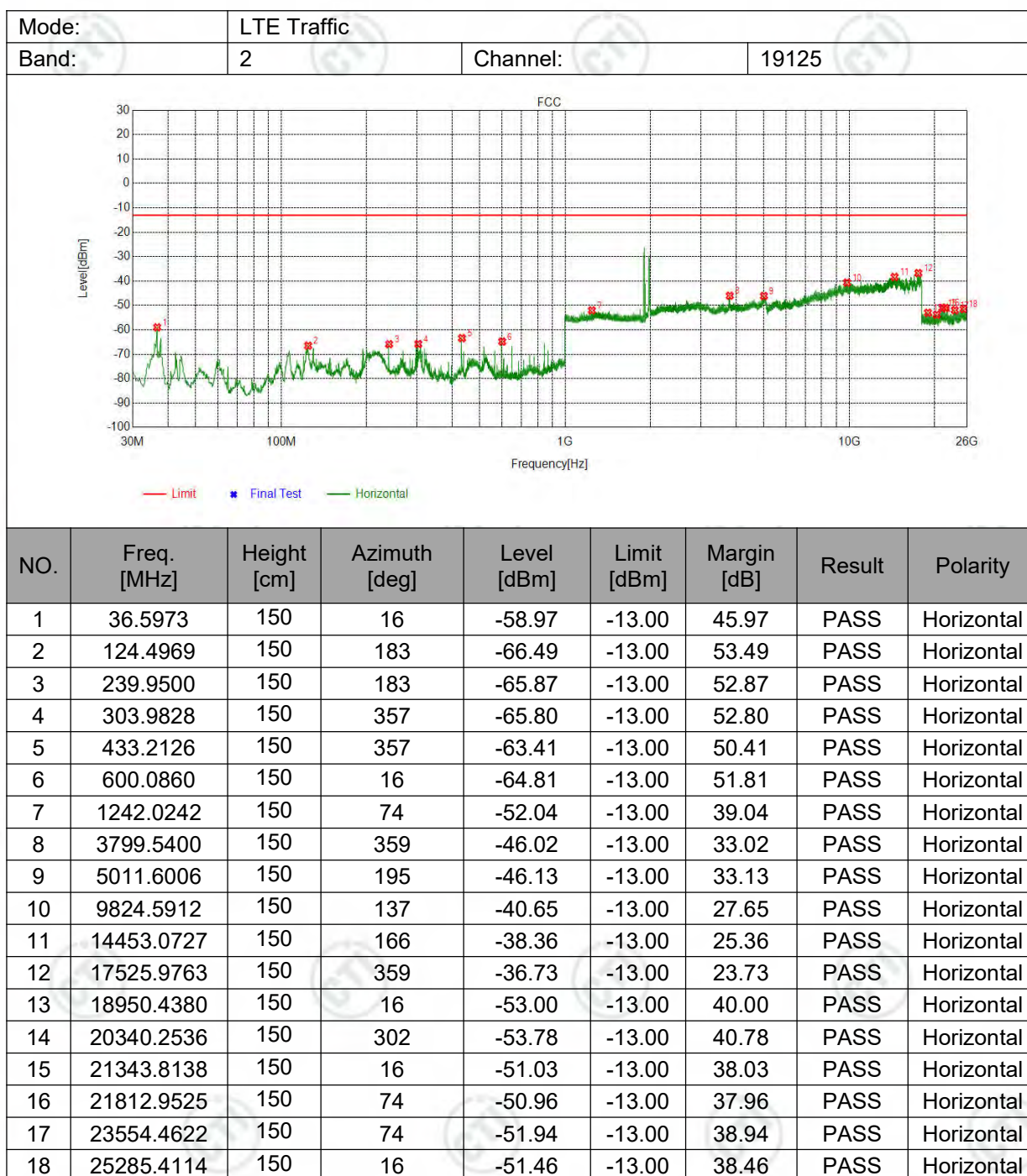


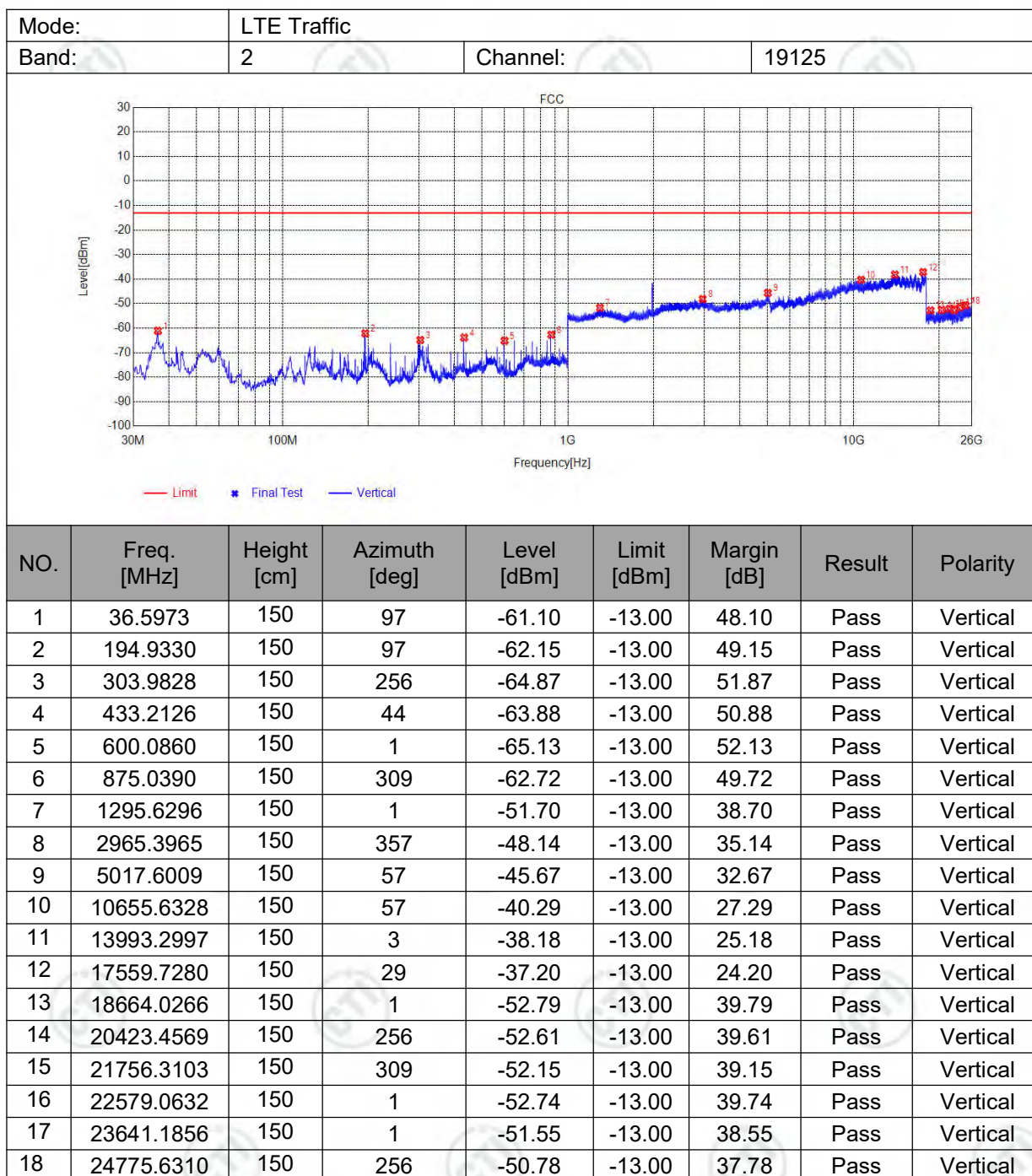


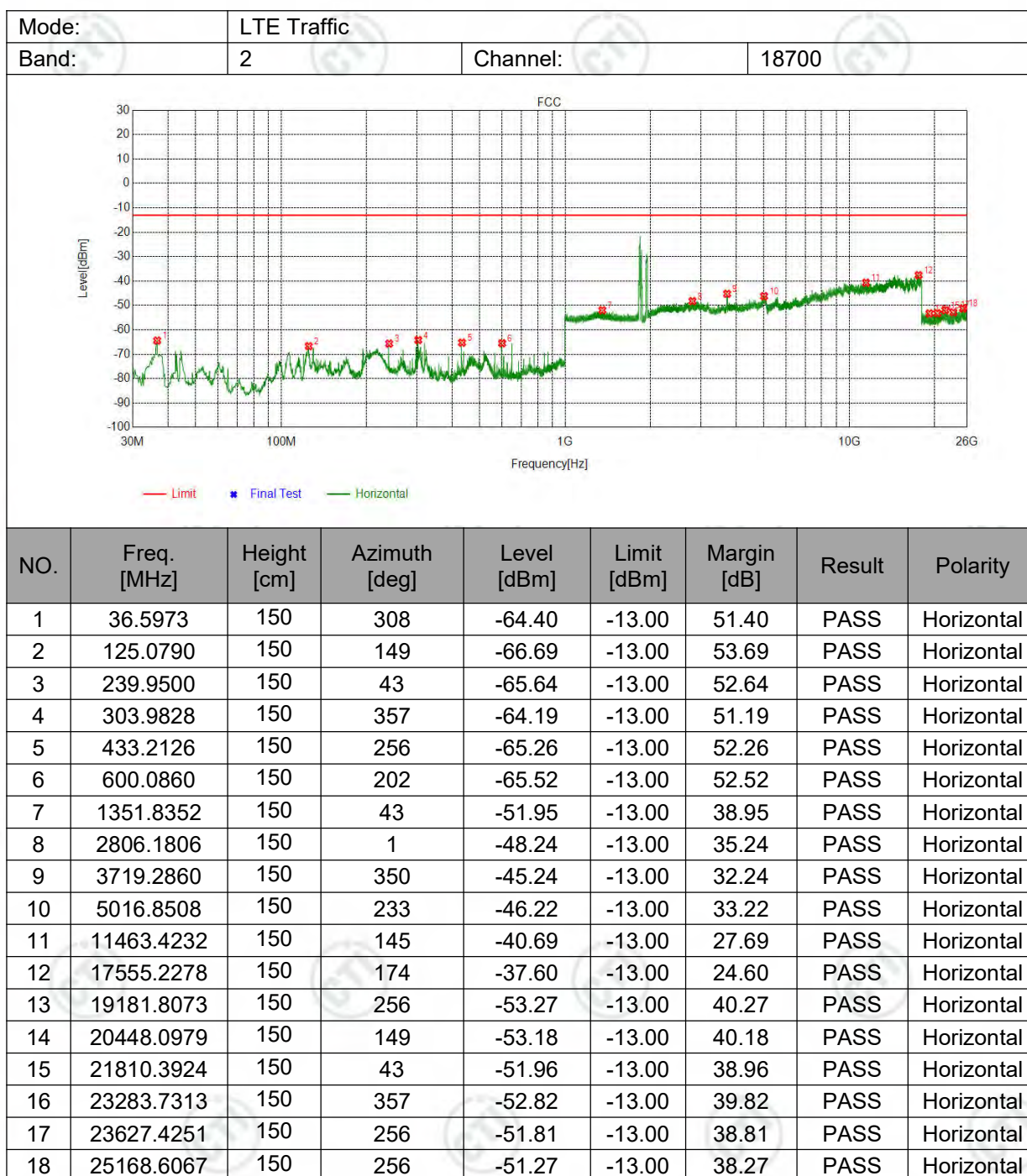


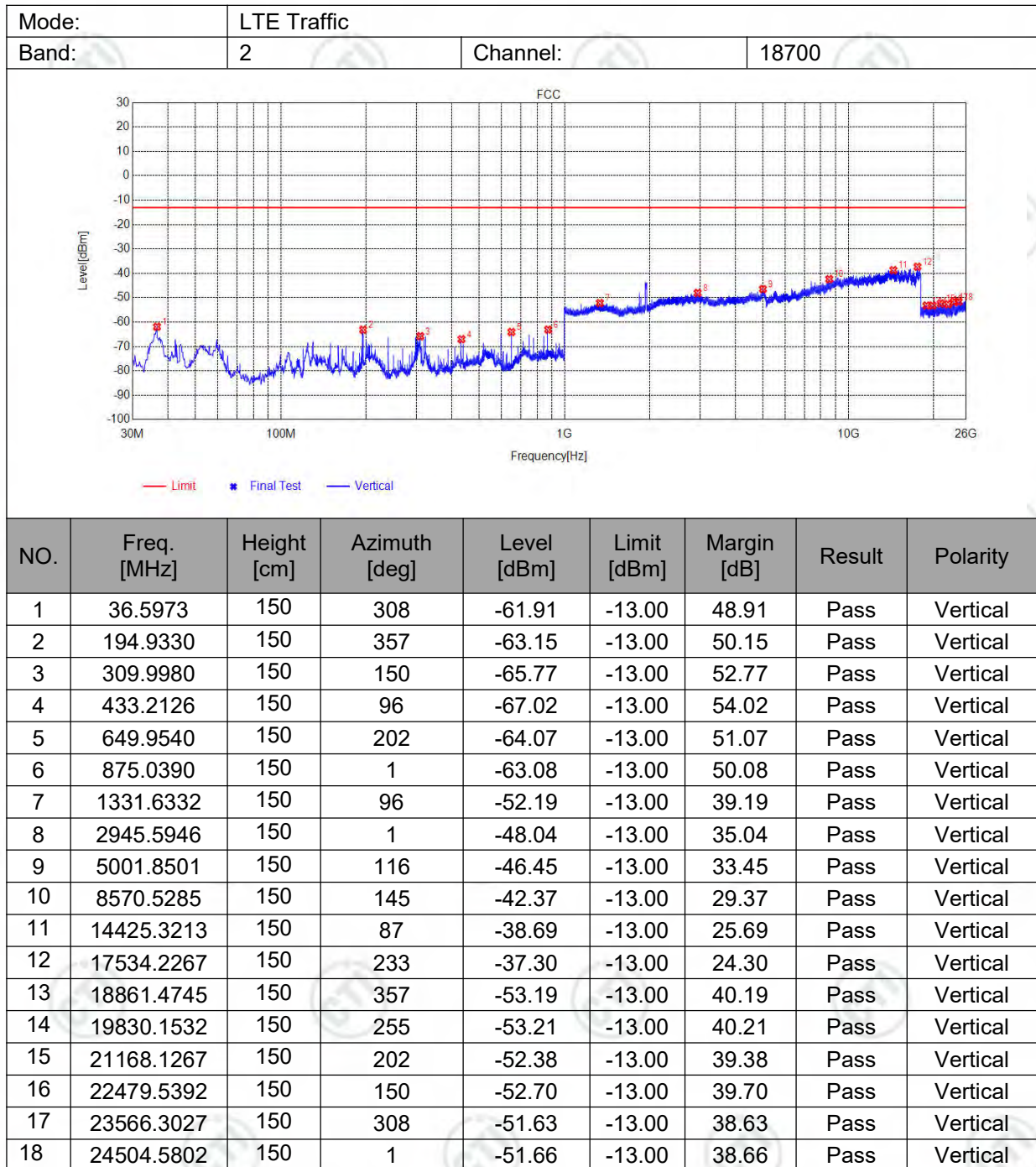


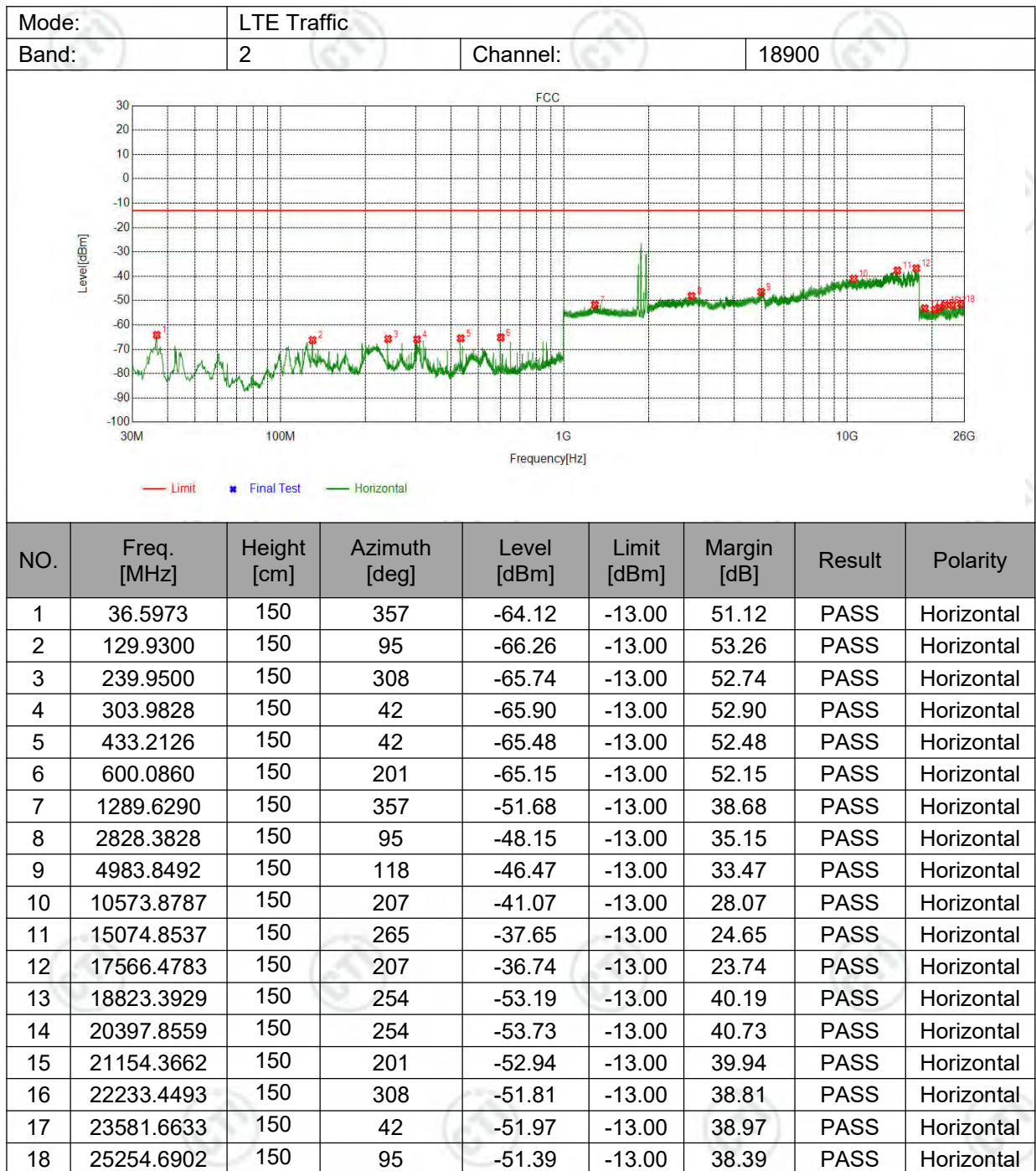


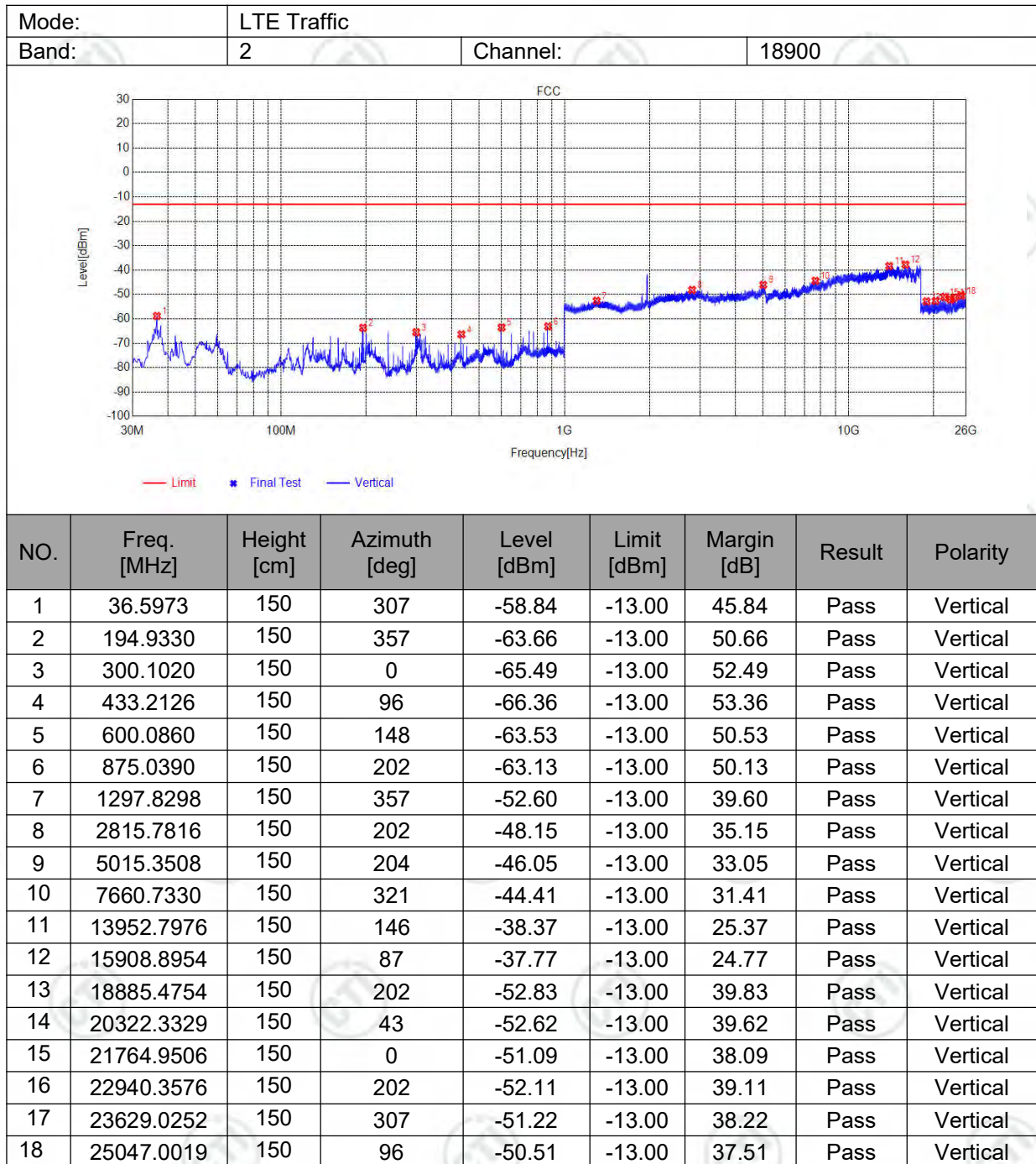


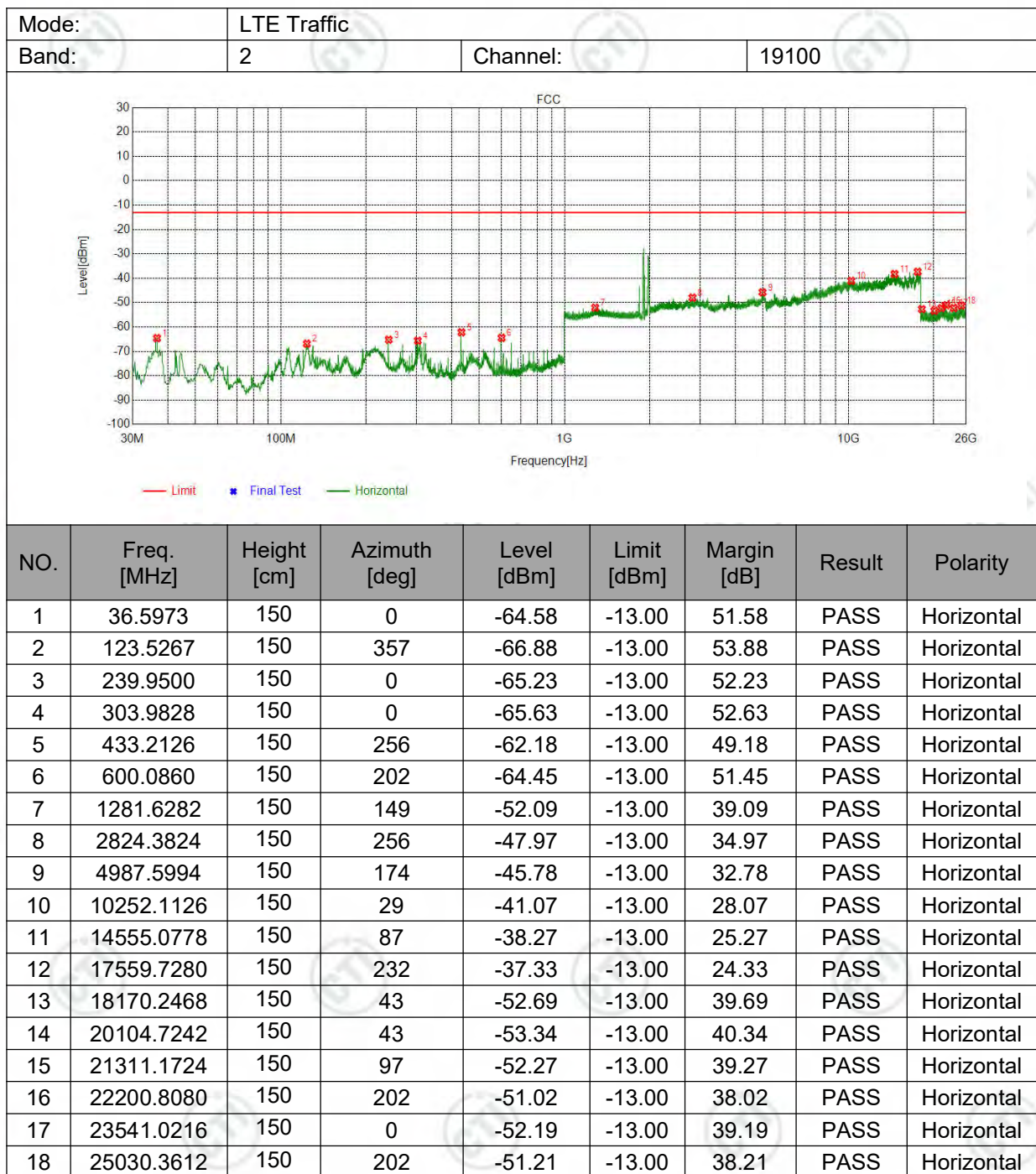


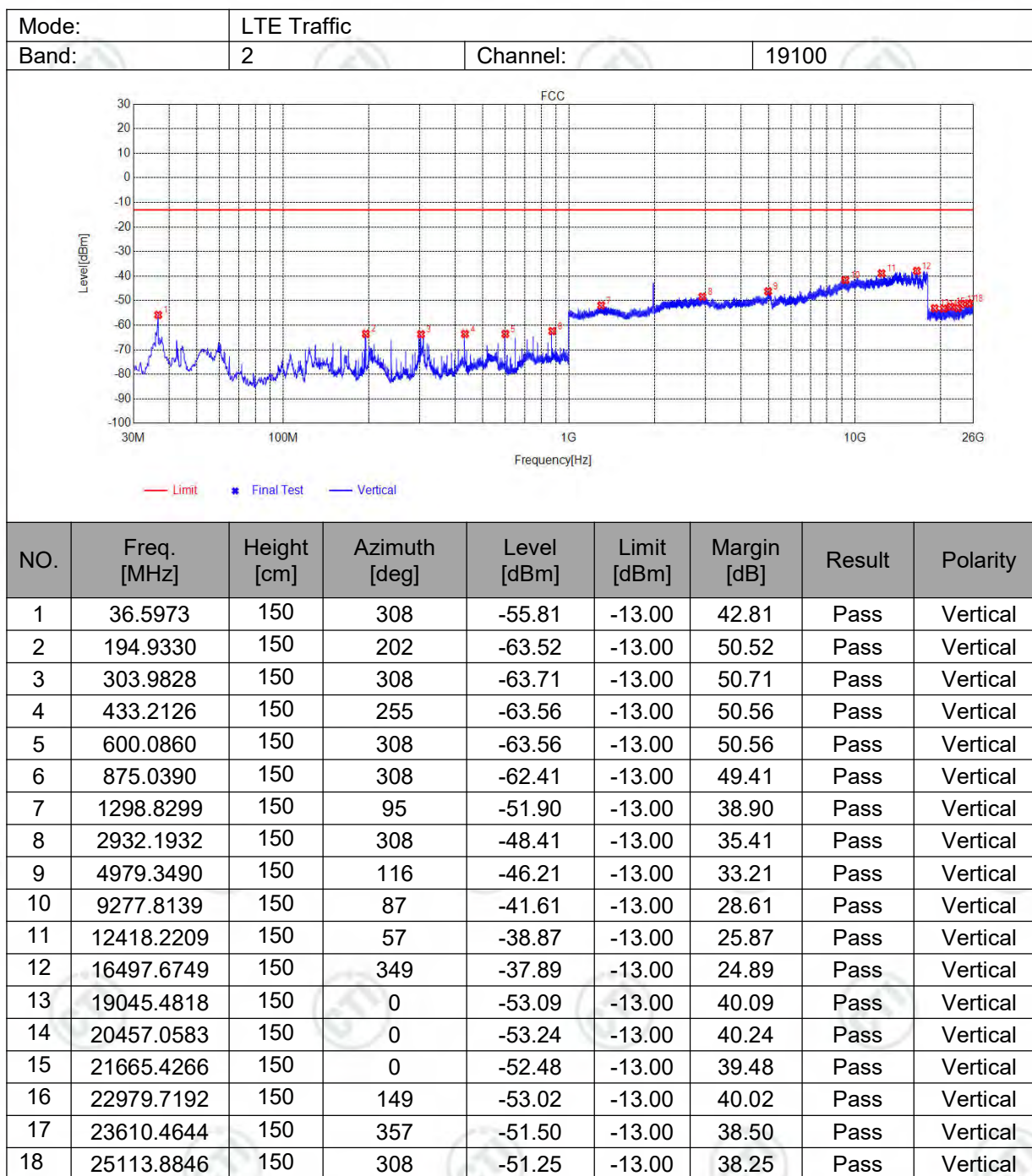






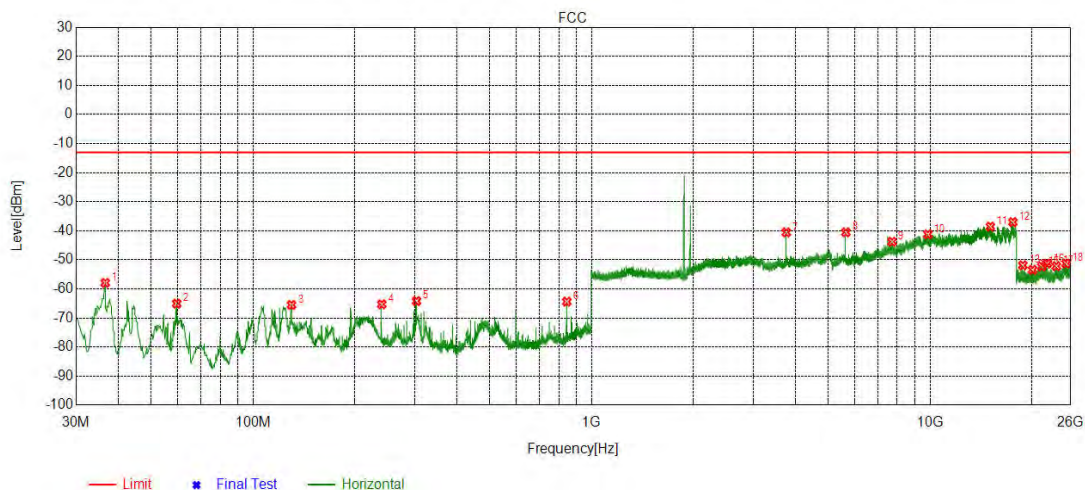






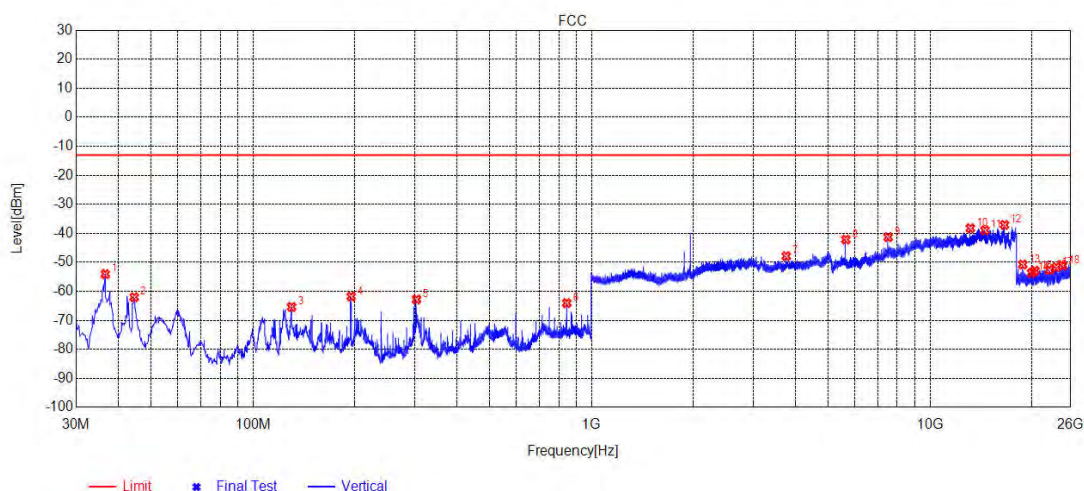
16-QAM:

Mode:	LTE		
Band:	2	Channel:	18900



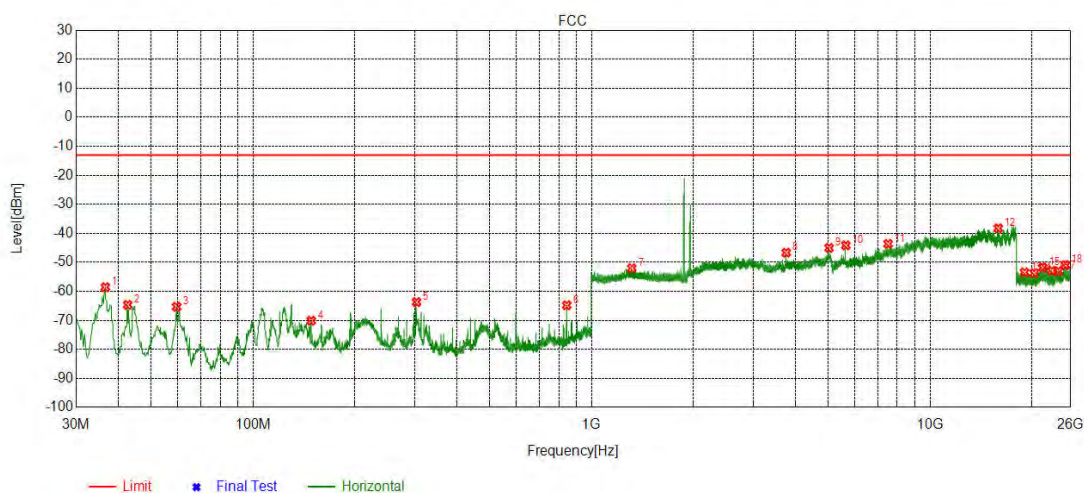
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	97	-57.92	-13.00	44.92	PASS	Horizontal
2	59.4939	150	97	-65.08	-13.00	52.08	PASS	Horizontal
3	129.9300	150	1	-65.51	-13.00	52.51	PASS	Horizontal
4	239.9500	150	1	-65.28	-13.00	52.28	PASS	Horizontal
5	303.9828	150	150	-64.16	-13.00	51.16	PASS	Horizontal
6	844.9630	150	1	-64.38	-13.00	51.38	PASS	Horizontal
7	3760.5380	150	349	-40.56	-13.00	27.56	PASS	Horizontal
8	5640.1320	150	116	-40.54	-13.00	27.54	PASS	Horizontal
9	7723.7362	150	116	-43.75	-13.00	30.75	PASS	Horizontal
10	9855.3428	150	145	-41.20	-13.00	28.20	PASS	Horizontal
11	15071.1036	150	203	-38.55	-13.00	25.55	PASS	Horizontal
12	17569.4785	150	203	-37.02	-13.00	24.02	PASS	Horizontal
13	18800.0320	150	44	-51.85	-13.00	38.85	PASS	Horizontal
14	20086.8035	150	309	-53.42	-13.00	40.42	PASS	Horizontal
15	21385.7354	150	1	-52.28	-13.00	39.28	PASS	Horizontal
16	22180.3272	150	256	-51.29	-13.00	38.29	PASS	Horizontal
17	23620.0648	150	357	-52.18	-13.00	39.18	PASS	Horizontal
18	25237.0895	150	44	-51.26	-13.00	38.26	PASS	Horizontal

Mode:	LTE		
Band:	2	Channel:	18900



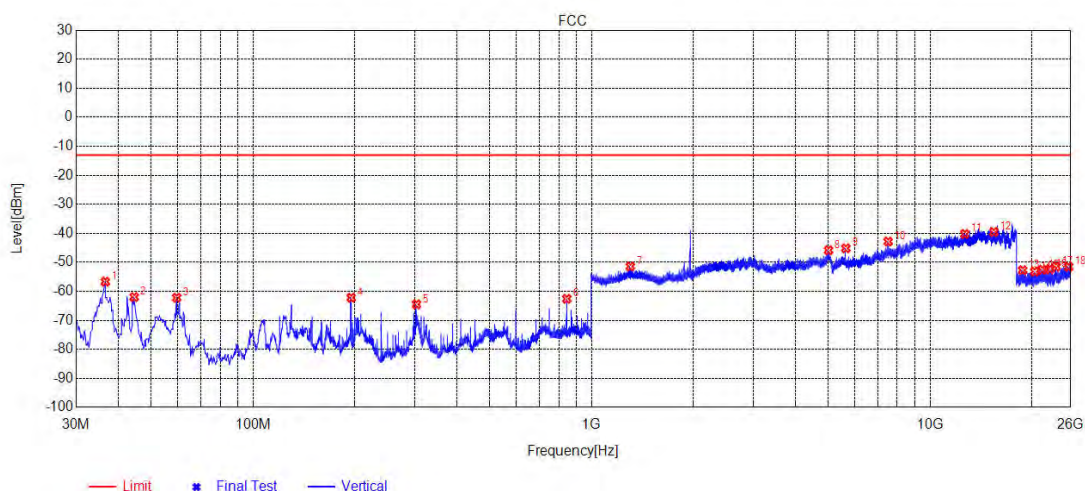
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	148	-54.03	-13.00	41.03	PASS	Vertical
2	44.5529	150	0	-62.01	-13.00	49.01	PASS	Vertical
3	129.9300	150	202	-65.37	-13.00	52.37	PASS	Vertical
4	194.9330	150	42	-61.76	-13.00	48.76	PASS	Vertical
5	303.9828	150	255	-62.77	-13.00	49.77	PASS	Vertical
6	844.9630	150	148	-64.03	-13.00	51.03	PASS	Vertical
7	3759.7880	150	174	-47.86	-13.00	34.86	PASS	Vertical
8	5640.1320	150	145	-42.13	-13.00	29.13	PASS	Vertical
9	7519.7260	150	291	-41.30	-13.00	28.30	PASS	Vertical
10	13160.0080	150	174	-38.24	-13.00	25.24	PASS	Vertical
11	14523.5762	150	351	-38.94	-13.00	25.94	PASS	Vertical
12	16599.6800	150	291	-37.09	-13.00	24.09	PASS	Vertical
13	18799.7120	150	42	-50.76	-13.00	37.76	PASS	Vertical
14	19947.2779	150	202	-53.66	-13.00	40.66	PASS	Vertical
15	20411.2965	150	255	-52.84	-13.00	39.84	PASS	Vertical
16	22538.7416	150	148	-52.63	-13.00	39.63	PASS	Vertical
17	23596.3839	150	202	-51.64	-13.00	38.64	PASS	Vertical
18	24641.2256	150	308	-51.11	-13.00	38.11	PASS	Vertical

Mode:	LTE		
Band:	2	Channel:	18900



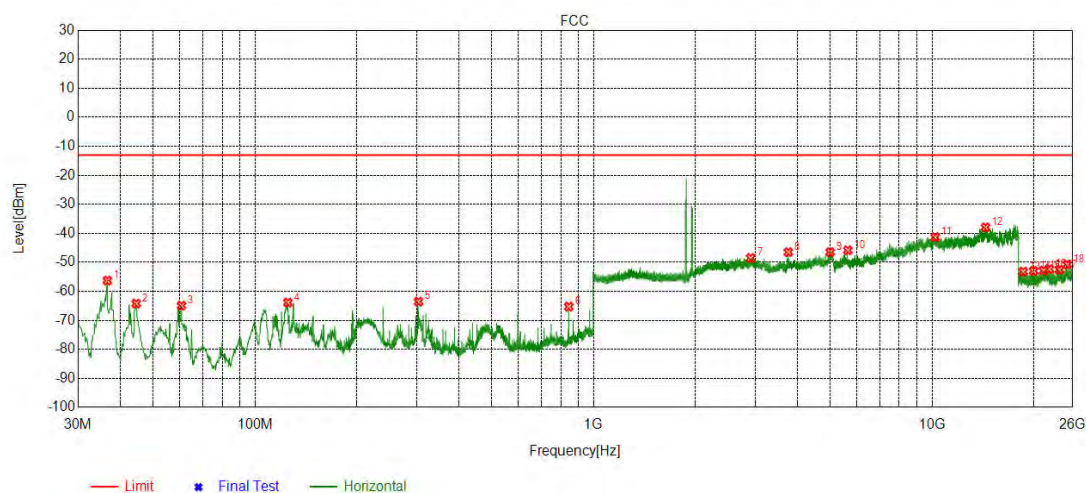
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	95	-58.57	-13.00	45.57	PASS	Horizontal
2	42.6125	150	357	-64.64	-13.00	51.64	PASS	Horizontal
3	59.4939	150	0	-65.29	-13.00	52.29	PASS	Horizontal
4	148.5577	150	201	-70.12	-13.00	57.12	PASS	Horizontal
5	303.9828	150	0	-63.70	-13.00	50.70	PASS	Horizontal
6	844.9630	150	201	-64.80	-13.00	51.80	PASS	Horizontal
7	1314.8315	150	357	-52.01	-13.00	39.01	PASS	Horizontal
8	3759.7880	150	291	-46.66	-13.00	33.66	PASS	Horizontal
9	5031.1016	150	233	-45.01	-13.00	32.01	PASS	Horizontal
10	5640.1320	150	116	-44.16	-13.00	31.16	PASS	Horizontal
11	7520.4760	150	29	-43.62	-13.00	30.62	PASS	Horizontal
12	15897.6449	150	87	-38.26	-13.00	25.26	PASS	Horizontal
13	19016.6807	150	201	-53.44	-13.00	40.44	PASS	Horizontal
14	20311.7725	150	42	-53.71	-13.00	40.71	PASS	Horizontal
15	21523.3409	150	0	-51.80	-13.00	38.80	PASS	Horizontal
16	22904.8362	150	255	-52.88	-13.00	39.88	PASS	Horizontal
17	23935.2774	150	201	-53.02	-13.00	40.02	PASS	Horizontal
18	25113.5645	150	308	-50.96	-13.00	37.96	PASS	Horizontal

Mode:	LTE		
Band:	2	Channel:	18900



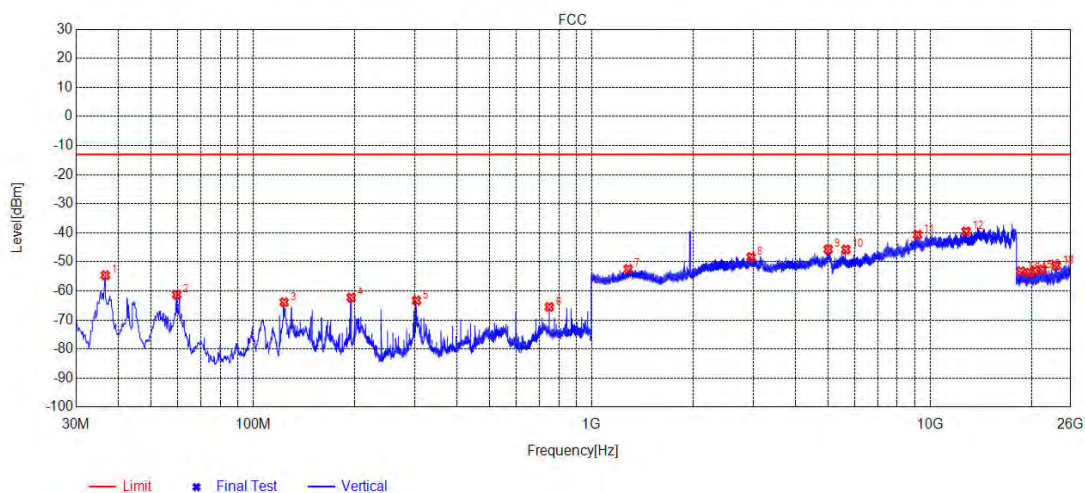
Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	308	-56.64	-13.00	43.64	PASS	Vertical
2	44.5529	150	357	-61.96	-13.00	48.96	PASS	Vertical
3	59.4939	150	308	-62.18	-13.00	49.18	PASS	Vertical
4	194.9330	150	357	-62.17	-13.00	49.17	PASS	Vertical
5	303.9828	150	149	-64.47	-13.00	51.47	PASS	Vertical
6	844.9630	150	255	-62.58	-13.00	49.58	PASS	Vertical
7	1302.0302	150	308	-51.42	-13.00	38.42	PASS	Vertical
8	5012.3506	150	203	-45.84	-13.00	32.84	PASS	Vertical
9	5639.3820	150	144	-45.13	-13.00	32.13	PASS	Vertical
10	7520.4760	150	320	-42.83	-13.00	29.83	PASS	Vertical
11	12674.7337	150	28	-40.20	-13.00	27.20	PASS	Vertical
12	15439.3720	150	203	-39.54	-13.00	26.54	PASS	Vertical
13	18778.5911	150	0	-52.72	-13.00	39.72	PASS	Vertical
14	20384.4154	150	0	-53.20	-13.00	40.20	PASS	Vertical
15	21475.6590	150	96	-52.54	-13.00	39.54	PASS	Vertical
16	22604.9842	150	255	-52.32	-13.00	39.32	PASS	Vertical
17	23585.5034	150	255	-51.44	-13.00	38.44	PASS	Vertical
18	25670.3868	150	0	-51.52	-13.00	38.52	PASS	Vertical

Mode:	LTE		
Band:	2	Channel:	18900



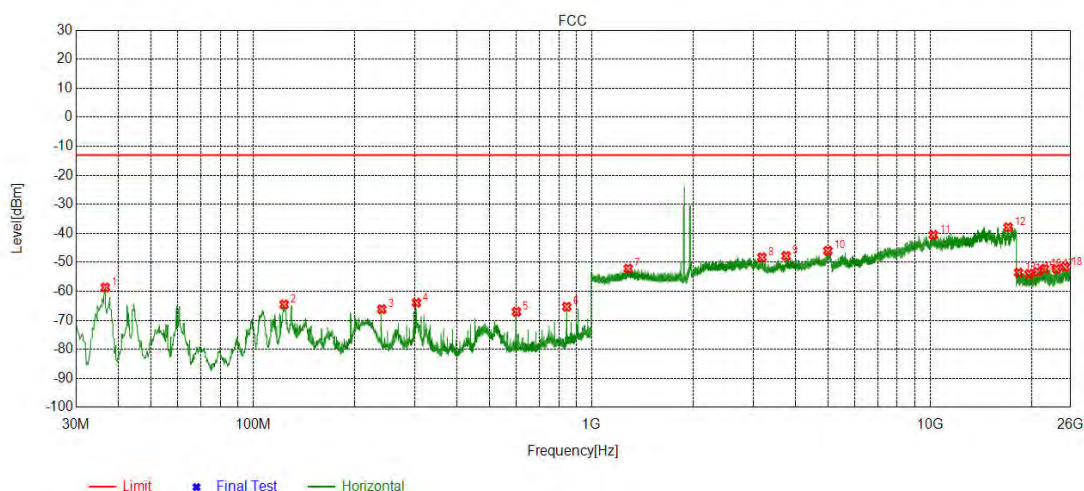
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	0	-56.29	-13.00	43.29	PASS	Horizontal
2	44.5529	150	0	-64.21	-13.00	51.21	PASS	Horizontal
3	60.6581	150	96	-64.93	-13.00	51.93	PASS	Horizontal
4	125.0790	150	96	-63.88	-13.00	50.88	PASS	Horizontal
5	303.9828	150	308	-63.54	-13.00	50.54	PASS	Horizontal
6	844.9630	150	255	-65.27	-13.00	52.27	PASS	Horizontal
7	2912.1912	150	0	-48.50	-13.00	35.50	PASS	Horizontal
8	3762.0381	150	350	-46.48	-13.00	33.48	PASS	Horizontal
9	5001.1001	150	321	-46.48	-13.00	33.48	PASS	Horizontal
10	5640.1320	150	116	-45.86	-13.00	32.86	PASS	Horizontal
11	10215.3608	150	321	-41.32	-13.00	28.32	PASS	Horizontal
12	14386.3193	150	291	-37.96	-13.00	24.96	PASS	Horizontal
13	18590.4236	150	0	-53.19	-13.00	40.19	PASS	Horizontal
14	19953.9982	150	0	-52.97	-13.00	39.97	PASS	Horizontal
15	21352.1341	150	308	-52.83	-13.00	39.83	PASS	Horizontal
16	22198.2479	150	96	-52.34	-13.00	39.34	PASS	Horizontal
17	23764.3906	150	0	-52.55	-13.00	39.55	PASS	Horizontal
18	25087.0035	150	0	-50.73	-13.00	37.73	PASS	Horizontal

Mode:	LTE		
Band:	2	Channel:	18900



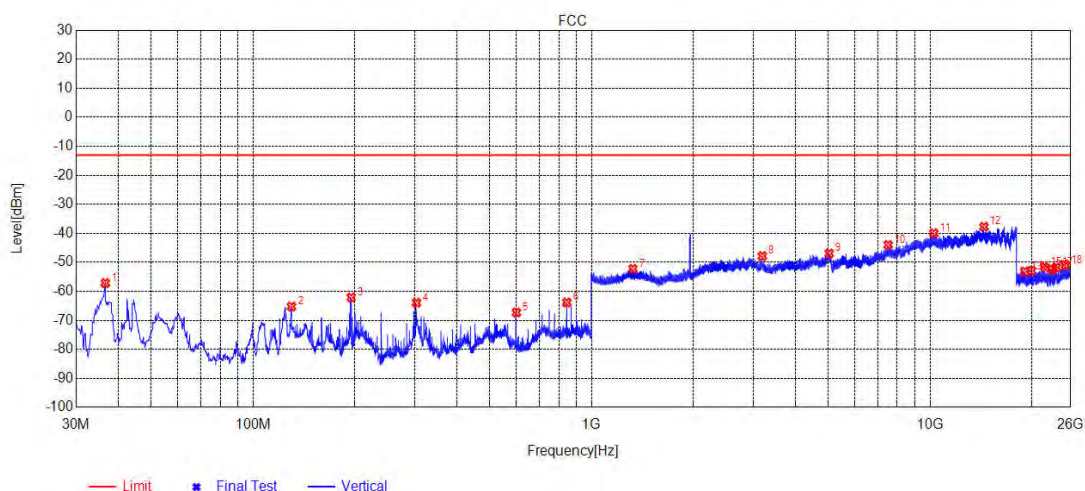
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	148	-54.61	-13.00	41.61	PASS	Vertical
2	59.4939	150	308	-61.32	-13.00	48.32	PASS	Vertical
3	123.5267	150	0	-63.89	-13.00	50.89	PASS	Vertical
4	194.9330	150	148	-62.26	-13.00	49.26	PASS	Vertical
5	303.9828	150	148	-63.29	-13.00	50.29	PASS	Vertical
6	750.0780	150	148	-65.52	-13.00	52.52	PASS	Vertical
7	1283.2283	150	202	-52.46	-13.00	39.46	PASS	Vertical
8	2960.9961	150	42	-48.35	-13.00	35.35	PASS	Vertical
9	5001.8501	150	233	-45.70	-13.00	32.70	PASS	Vertical
10	5642.3821	150	115	-45.75	-13.00	32.75	PASS	Vertical
11	9188.5594	150	204	-40.65	-13.00	27.65	PASS	Vertical
12	12782.7391	150	175	-39.55	-13.00	26.55	PASS	Vertical
13	18553.9422	150	148	-53.16	-13.00	40.16	PASS	Vertical
14	19673.9870	150	357	-53.71	-13.00	40.71	PASS	Vertical
15	20424.0970	150	0	-52.97	-13.00	39.97	PASS	Vertical
16	21501.5801	150	0	-52.65	-13.00	39.65	PASS	Vertical
17	23602.1441	150	202	-51.32	-13.00	38.32	PASS	Vertical
18	23602.1441	150	202	-51.32	-13.00	38.32	PASS	Vertical

Mode:	LTE		
Band:	2	Channel:	18900



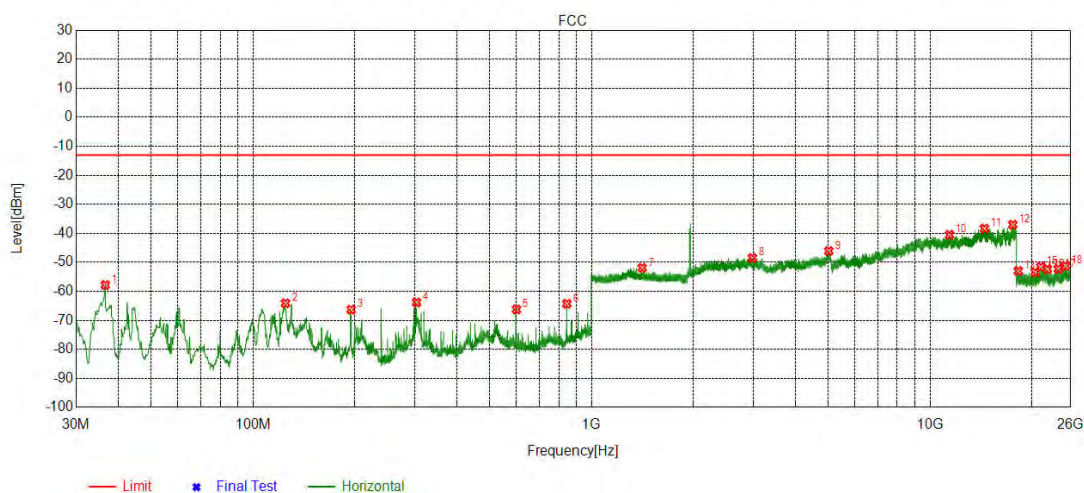
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	255	-58.65	-13.00	45.65	PASS	Horizontal
2	123.5267	150	255	-64.52	-13.00	51.52	PASS	Horizontal
3	239.9500	150	95	-66.13	-13.00	53.13	PASS	Horizontal
4	303.9828	150	0	-63.93	-13.00	50.93	PASS	Horizontal
5	600.0860	150	0	-67.04	-13.00	54.04	PASS	Horizontal
6	844.9630	150	0	-65.31	-13.00	52.31	PASS	Horizontal
7	1282.6283	150	0	-52.16	-13.00	39.16	PASS	Horizontal
8	3186.7593	150	352	-48.27	-13.00	35.27	PASS	Horizontal
9	3755.2878	150	293	-47.79	-13.00	34.79	PASS	Horizontal
10	4991.3496	150	87	-46.01	-13.00	33.01	PASS	Horizontal
11	10233.3617	150	293	-40.55	-13.00	27.55	PASS	Horizontal
12	17009.9505	150	323	-37.90	-13.00	24.90	PASS	Horizontal
13	18271.3709	150	42	-53.55	-13.00	40.55	PASS	Horizontal
14	19616.3847	150	149	-54.01	-13.00	41.01	PASS	Horizontal
15	20766.8307	150	0	-53.26	-13.00	40.26	PASS	Horizontal
16	21786.3915	150	95	-52.25	-13.00	39.25	PASS	Horizontal
17	23618.7848	150	0	-52.28	-13.00	39.28	PASS	Horizontal
18	25083.4833	150	42	-51.59	-13.00	38.59	PASS	Horizontal

Mode:	LTE		
Band:	2	Channel:	18900



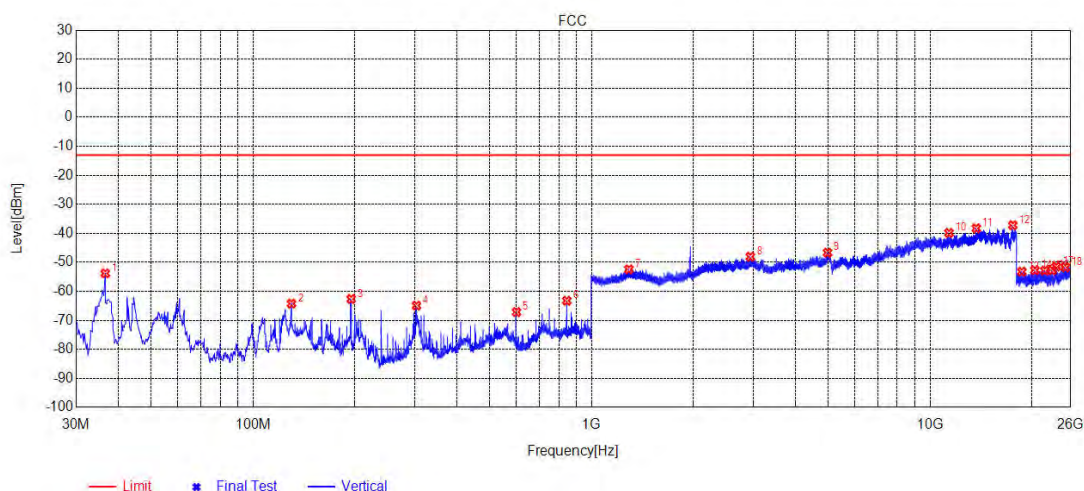
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	0	-57.14	-13.00	44.14	PASS	Vertical
2	129.9300	150	201	-65.22	-13.00	52.22	PASS	Vertical
3	194.9330	150	95	-62.09	-13.00	49.09	PASS	Vertical
4	303.9828	150	254	-63.92	-13.00	50.92	PASS	Vertical
5	600.0860	150	148	-67.28	-13.00	54.28	PASS	Vertical
6	844.9630	150	95	-63.83	-13.00	50.83	PASS	Vertical
7	1324.8325	150	95	-52.24	-13.00	39.24	PASS	Vertical
8	3195.7598	150	352	-47.85	-13.00	34.85	PASS	Vertical
9	5036.3518	150	87	-46.94	-13.00	33.94	PASS	Vertical
10	7520.4760	150	352	-43.99	-13.00	30.99	PASS	Vertical
11	10263.3632	150	352	-39.95	-13.00	26.95	PASS	Vertical
12	14438.0719	150	174	-37.74	-13.00	24.74	PASS	Vertical
13	19027.5611	150	148	-53.15	-13.00	40.15	PASS	Vertical
14	19958.1583	150	0	-52.88	-13.00	39.88	PASS	Vertical
15	21861.5945	150	42	-51.71	-13.00	38.71	PASS	Vertical
16	22994.1198	150	148	-52.51	-13.00	39.51	PASS	Vertical
17	23595.4238	150	201	-51.77	-13.00	38.77	PASS	Vertical
18	25145.8858	150	201	-50.99	-13.00	37.99	PASS	Vertical

Mode:	LTE		
Band:	2	Channel:	18900



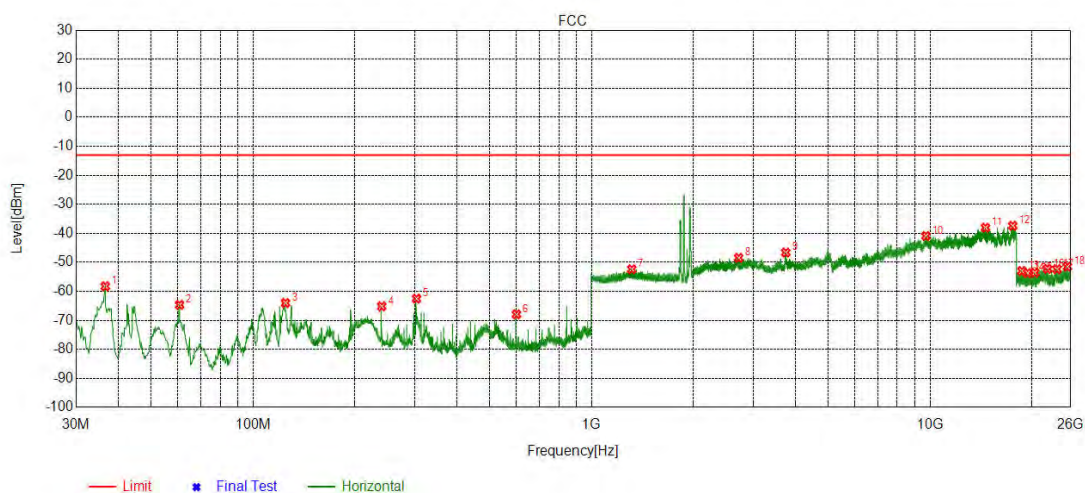
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	0	-57.82	-13.00	44.82	PASS	Horizontal
2	124.6909	150	96	-64.11	-13.00	51.11	PASS	Horizontal
3	194.9330	150	0	-66.29	-13.00	53.29	PASS	Horizontal
4	303.9828	150	149	-63.81	-13.00	50.81	PASS	Horizontal
5	600.0860	150	202	-66.23	-13.00	53.23	PASS	Horizontal
6	844.9630	150	96	-64.27	-13.00	51.27	PASS	Horizontal
7	1411.0411	150	96	-51.90	-13.00	38.90	PASS	Horizontal
8	2986.1986	150	308	-48.49	-13.00	35.49	PASS	Horizontal
9	5022.1011	150	350	-46.10	-13.00	33.10	PASS	Horizontal
10	11414.6707	150	57	-40.54	-13.00	27.54	PASS	Horizontal
11	14477.8239	150	350	-38.37	-13.00	25.37	PASS	Horizontal
12	17552.9776	150	57	-37.01	-13.00	24.01	PASS	Horizontal
13	18221.1288	150	43	-52.96	-13.00	39.96	PASS	Horizontal
14	20433.6973	150	308	-53.42	-13.00	40.42	PASS	Horizontal
15	21236.9295	150	149	-51.57	-13.00	38.57	PASS	Horizontal
16	22211.3685	150	255	-52.35	-13.00	39.35	PASS	Horizontal
17	23920.5568	150	43	-52.26	-13.00	39.26	PASS	Horizontal
18	25139.4856	150	0	-51.20	-13.00	38.20	PASS	Horizontal

Mode:	LTE		
Band:	2	Channel:	18900



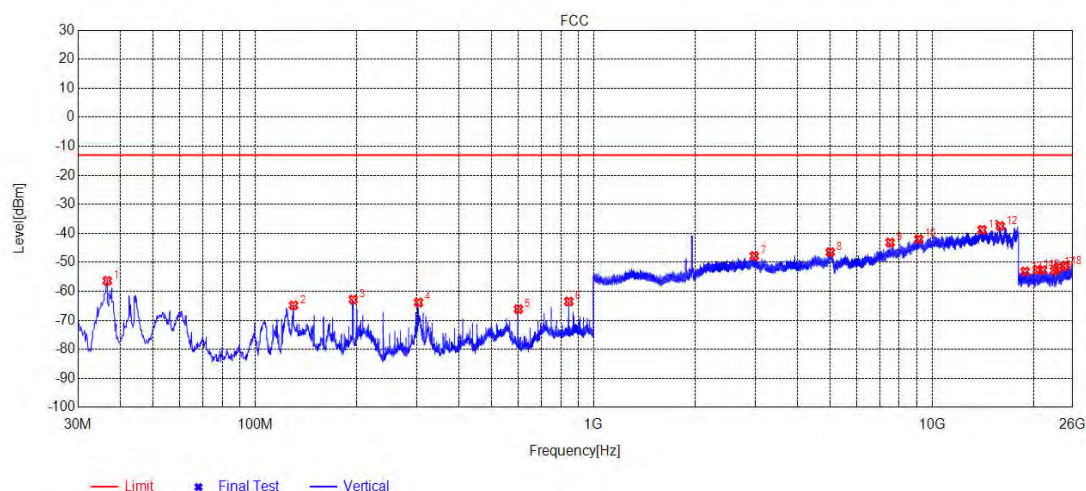
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	308	-53.78	-13.00	40.78	PASS	Vertical
2	129.9300	150	0	-64.21	-13.00	51.21	PASS	Vertical
3	194.9330	150	308	-62.63	-13.00	49.63	PASS	Vertical
4	303.9828	150	43	-64.92	-13.00	51.92	PASS	Vertical
5	600.0860	150	202	-67.13	-13.00	54.13	PASS	Vertical
6	844.9630	150	0	-63.22	-13.00	50.22	PASS	Vertical
7	1288.8289	150	0	-52.40	-13.00	39.40	PASS	Vertical
8	2945.3945	150	202	-48.06	-13.00	35.06	PASS	Vertical
9	4980.8490	150	28	-46.66	-13.00	33.66	PASS	Vertical
10	11374.1687	150	351	-39.85	-13.00	26.85	PASS	Vertical
11	13696.2848	150	263	-38.25	-13.00	25.25	PASS	Vertical
12	17559.7280	150	28	-37.20	-13.00	24.20	PASS	Vertical
13	18679.7072	150	357	-53.20	-13.00	40.20	PASS	Vertical
14	20413.5365	150	0	-52.72	-13.00	39.72	PASS	Vertical
15	21835.3534	150	357	-52.84	-13.00	39.84	PASS	Vertical
16	22930.1172	150	0	-52.70	-13.00	39.70	PASS	Vertical
17	23598.6239	150	0	-51.46	-13.00	38.46	PASS	Vertical
18	25118.3647	150	148	-51.71	-13.00	38.71	PASS	Vertical

Mode:	LTE		
Band:	2	Channel:	18900



NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	96	-58.24	-13.00	45.24	PASS	Horizontal
2	60.6581	150	96	-64.65	-13.00	51.65	PASS	Horizontal
3	124.6909	150	357	-64.00	-13.00	51.00	PASS	Horizontal
4	239.9500	150	357	-65.16	-13.00	52.16	PASS	Horizontal
5	303.9828	150	148	-62.53	-13.00	49.53	PASS	Horizontal
6	600.0860	150	0	-67.92	-13.00	54.92	PASS	Horizontal
7	1314.4314	150	148	-52.37	-13.00	39.37	PASS	Horizontal
8	2720.3720	150	0	-48.43	-13.00	35.43	PASS	Horizontal
9	3747.7874	150	351	-46.61	-13.00	33.61	PASS	Horizontal
10	9722.5861	150	234	-40.91	-13.00	27.91	PASS	Horizontal
11	14583.5792	150	116	-38.05	-13.00	25.05	PASS	Horizontal
12	17548.4774	150	174	-37.39	-13.00	24.39	PASS	Horizontal
13	18686.4275	150	0	-52.99	-13.00	39.99	PASS	Horizontal
14	19417.6567	150	0	-53.66	-13.00	40.66	PASS	Horizontal
15	20395.2958	150	0	-53.56	-13.00	40.56	PASS	Horizontal
16	22251.0500	150	148	-52.23	-13.00	39.23	PASS	Horizontal
17	23715.7486	150	202	-52.36	-13.00	39.36	PASS	Horizontal
18	25460.4584	150	307	-51.48	-13.00	38.48	PASS	Horizontal

Mode:	LTE		
Band:	2	Channel:	18900



NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	36.5973	150	308	-56.36	-13.00	43.36	PASS	Vertical
2	129.9300	150	149	-64.82	-13.00	51.82	PASS	Vertical
3	194.9330	150	96	-62.83	-13.00	49.83	PASS	Vertical
4	303.9828	150	44	-63.82	-13.00	50.82	PASS	Vertical
5	600.0860	150	96	-66.13	-13.00	53.13	PASS	Vertical
6	844.9630	150	357	-63.50	-13.00	50.50	PASS	Vertical
7	2984.3984	150	255	-47.83	-13.00	34.83	PASS	Vertical
8	5004.8502	150	243	-46.51	-13.00	33.51	PASS	Vertical
9	7520.4760	150	358	-43.20	-13.00	30.20	PASS	Vertical
10	9147.3074	150	302	-42.01	-13.00	29.01	PASS	Vertical
11	14059.3030	150	87	-38.78	-13.00	25.78	PASS	Vertical
12	15907.3954	150	243	-37.49	-13.00	24.49	PASS	Vertical
13	18827.2331	150	357	-53.15	-13.00	40.15	PASS	Vertical
14	20450.6580	150	357	-52.58	-13.00	39.58	PASS	Vertical
15	21211.9685	150	44	-52.65	-13.00	39.65	PASS	Vertical
16	22987.7195	150	149	-52.84	-13.00	39.84	PASS	Vertical
17	23573.0229	150	96	-51.84	-13.00	38.84	PASS	Vertical
18	24725.7090	150	0	-51.28	-13.00	38.28	PASS	Vertical

Note:

Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.