



TEST REPORT

Report Number. : R13999443-E2

Applicant : INFOBIONIC
400 TOTTEN POND RD STE 315
WALTHAM, MA 02451, USE

Model : 01854 REV B

FCC ID : 2AHL001855

EUT Description : WIRELESS AMBULATORY ECG MONITORING AND DETECTION
SYSTEM

Test Standard(s) : FCC CFR47 PART 22, PART 24, AND PART 27

Date Of Issue:
2021-12-21

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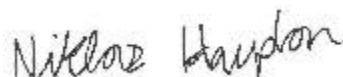
Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2021-11-23	Initial Review	Niklas Haydon
V2	2021-12-06	Revised power note in Section 5.1 and 5.2 to reference SAR report. Removed setup photos.	Brian Kiewra
V3	2021-12-14	Added ERP/EIRP section	Brian Kiewra
V4	2021-12-16	Revisions to ERP/EIRP section to include ERP/EIRP in dBm	Brian Kiewra
V5	2021-12-17	Revisions to ERP/EIRP section to include additional decimal places	Brian Kiewra
V6	2021-12-21	Revisions to ERP/EIRP section to include note with equation used to calculate ERP/EIRP.	Brian Kiewra

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	INFOBIONIC 400 TOTTEN POND RD STE 315 WALTHAM, MA 02451, USE	
Model	01854 REV B	
FCC ID	2AHL001855	
EUT Description	WIRELESS AMBULATORY ECG MONITORING AND DETECTION SYSTEM	
Serial Number	MIB1002	
Sample Receipt Date	SEPTEMBER 13, 2021	
Date Tested	SEPTEMBER 13, 2021 to NOVEMBER 01, 2021	
Applicable Standards	FCC CFR47 PART 22, PART 24, AND PART 27	
Test Results	COMPLIES	
UL LLC. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. This document may not be altered or revised in any way unless done so by UL LLC. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.		
Approved & Released By:	Reviewed By:	Prepared By:
		
Dan Corona Operations Leader UL Verification Services Inc.	Kiya Kedida Senior Project Handler UL Verification Services Inc.	Niklas Haydon Operations Leader UL LLC.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the following:

- ANSI C63.26:2015
- FCC CFR 47 Part 2, Part 22, Part 24, and Part 27
- [FCC KDB 971168 D01 v03r01](#): Power Meas License Digital Systems
- [FCC KDB 971168 D02 v02r01](#): Misc Rev Approv License Devices

3. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, Certificate Number 0751.06, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building: 12 Laboratory Dr RTP, NC 27709, U.S.A	US0067	2180C	703469
☒	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A		27265	

4. DECISION RULES AND MEASUREMENT UNCERTAINTY

4.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

4.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radio Frequency (Spectrum Analyzer)	141.2 Hz
Occupied Channel Bandwidth	1.22%
All emissions, radiated	6.01 dB
Temperature	0.57°C
Humidity	3.39%
DC Supply voltages	1.70%
Time	3.39%

Uncertainty figures are valid to a confidence level of 95%.

4.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
 $36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.
 $36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a Wireless Ambulatory ECG Monitoring and Detection System that contains a 3G/4G radio. This report contains the radiated emissions data for 3G radio. For all antenna port conducted data please refer to radio reports under FCC ID: R17LE910CXNF. Power in this report taken from SAR test report R13999443-S1.

5.2. MAXIMUM ERP/EIRP

WCDMA Band	ERP/EIRP (dBm)	ERP/EIRP (W)
2	23.930	0.247
4	26.960	0.497
5	21.460	0.140

For maximum output please refer to SAR test report R13999443-S1

5.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version V00.55.

5.4. MAXIMUM ANTENNA GAIN

The antenna(s) gain and type, as provided by the manufacturer' are as follows:

Frequency Range (MHz)	Antenna Gain (dBi)
WCDMA 5, 824 - 849	0.39
WCDMA 2, 1850 - 1910	0.62
WCDMA 4, 1710 - 1755	3.22

5.5. WORST-CASE CONFIGURATION AND MODE

The EUT supports WDCMA bands:
Band 2, band 4, and band 5

The EUT supports REL 99, HSDPA, and HSUPA. All radiated spurious emissions testing was performed using REL 99, HSDPA, and HSUPA modulations. The EUT supports only one transmit antenna, therefore all testing was performed with this antenna.

The EUT was investigated in three orthogonal orientations X/Y/Z. For band 5, it was determined that X orientation was worst-case orientation. For bands 2 and 4, it was determined that Y orientation was worst-case orientation.

Radiated spurious emissions were investigated from 9kHz to 30MHz, 30-1000MHz, and above 1GHz. There were no emissions found with less than 20dB of margin from 9kHz to 1GHz.

The EUT is battery operated and the battery is removed from the EUT for charging, therefore the EUT was tested on battery only.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		
Load Simulating Patient		N/A	N/A	Non-serialized		
I/O CABLES (RF RADIATED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Patient Coupling Port	1	Samtec	shielded	0.61	Samtec connector on one end (DUT) and three standard Electrocardiogram connectors on the other end (Patient)

RADIATED SETUP

Refer to exhibit R13999443-EP1 for setup diagram.

6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment Used – Conducted Output Power Test Equipment

Equipment ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
MY55136012	Power Meter	Keysight	N1912A	2021-07-16	2022-07-16
MY55090030	Power Sensor	Agilent	N1921A	2021-05-27	2022-05-27

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

Equipment ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	30-1000 MHz				
206210	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2021-03-11	2022-03-11
	1-18 GHz				
206211	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2021-03-11	2022-03-11
	Gain-Loss Chains				
C4-SAC02	Gain-loss string: 25-1000MHz	Various	Various	2021-05-07	2022-05-07
C4-SAC03	Gain-loss string: 1-18GHz	Various	Various	2021-05-07	2022-05-07
	Receiver & Software				
206496	Spectrum Analyzer	Rohde & Schwarz	ESW44	2021-03-09	2022-03-09
SOFTEMI	EMI Software	UL	Version 9.5 (27 May 2021)		
	Additional Equipment used				
s/n 200037635	Environmental Meter	Fisher Scientific	06-662-4	2020-01-21	2022-01-21
NA	Wideband Radio Communications Tester	Rohde and Schwartz	CMW500	2021-04-26	2022-04-26
BRF008	1710-1785MHz notch filter, 2W, $F_{high} = 9\text{GHz}$	Micro-Tronics	BRM50713-01	2021-02-16	2022-02-16
BRF001	900MHz notch filter, 2W, $F_{high} = 6\text{GHz}$	Micro-Tronics	BRM50706	2021-07-22	2022-07-22
BRF010	1.85-1.97GHz notch filter, 2W, $F_{high} = 9\text{GHz}$	Micro-Tronics	BRM50714-01	2021-02-16	2022-02-16
LPF008	DC-1000MHz low-pass filter	Pasternack	PE8720	2021-07-31	2022-07-31
HPF012	1GHz high-pass filter, 2W, $F_{high} = 18\text{GHz}$	Micro-Tronics	HPM18129	2021-02-15	2022-02-15

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville - North Chamber)

Equipment ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	0.009-30MHz				
AT0079	Active Loop Antenna	ETS-Lindgren	6502	2021-08-19	2022-08-19
	30-1000 MHz				
AT0066	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB1	2021-02-19	2022-02-19
	18-40 GHz				
AT0063	Horn Antenna, 18-26.5GHz	ARA	MWH-1826/B	2020-10-30	2021-10-30
	Gain-Loss Chains				
N-SAC01	Gain-loss string: 0.009-30MHz	Various	Various	2021-07-20	2022-07-20
N-SAC02	Gain-loss string: 25-1000MHz	Various	Various	2021-07-20	2022-07-20
N-SAC04	Gain-loss string: 18-40GHz	Various	Various	2021-07-20	2022-07-20
	Receiver & Software				
197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2021-03-30	2022-03-30
SOFTEMI	EMI Software	UL	Version 9.5 (24 Jun 2021)		
	Additional Equipment used				
s/n 200037635	Environmental Meter	Fisher Scientific	06-662-4	2020-01-21	2022-01-21
NA	Wideband Radio Communications Tester	Rohde and Schwartz	CMW500	2021-04-26	2022-04-26

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville - South Chamber)

Equipment ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	30-1000 MHz				
AT0075	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2020-10-27	2021-10-27
	1-18 GHz				
AT0072	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2021-05-03	2022-05-03
	Gain-Loss Chains				
S-SAC02	Gain-loss string: 25-1000MHz	Various	Various	2021-07-09	2022-07-09
S-SAC03	Gain-loss string: 1-18GHz	Various	Various	2021-07-09	2022-07-09
	Receiver & Software				
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2021-03-10	2022-03-10
SOFTEMI	EMI Software	UL	Version 9.5 (24 Jun 2021)		
	Additional Equipment used				
s/n 200037635	Environmental Meter	Fisher Scientific	06-662-4	2020-01-22	2022-01-22
NA	Wideband Radio Communications Tester	Rohde and Schwartz	CMW500	2021-04-26	2022-04-26

NOTES:

- * Testing is completed before equipment expiration date.
- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

7. ERP/EIRP

RULE PART(S)

FCC: §2.1053, §22.913, §24.232, and §27.50

LIMITS

§22.913(a)(5)

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

§24.232(c),

Mobile and portable stations are limited to 2 watts EIRP

§27.50 (d)(4)

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP

TEST PROCEDURE

KDB 971168 D01 v03r01

RESULTS

ANSI C63.26 Clause 5.2.5.5

Conducted power taken from SAR report R13999443-S1.

Maximum Output Power (Tune-up Limit) for W-CDMA

RF Air interface	Mode	Tune-up Power Limit (dBm)
		Maximum
W-CDMA Band 2	R99	23.80
	HSDPA	23.80
	HSUPA	23.80
W-CDMA Band 4	R99	24.00
	HSDPA	24.00
	HSUPA	24.00
W-CDMA Band 5	R99	25.00
	HSDPA	25.00
	HSUPA	25.00

Power taken on 2021-11-01 by 85502/40882

Note: In tables below EIRP = AV power + Antenna Gain
EPR = AV power + Antenna Gain – 2.15.

W-CDMA Band II Measured Results

Mode		UL Ch No.	Freq. (MHz)	Maximum Average Power (dBm)		Antenna Gain (dBi)	EIRP		
				Measured Pwr	Tune-up Limit		EIRP (dBm)	EIRP (W)	EIRP Limit (W)
Release 99	Rel 99	9262	1852.4	23.18	23.8	0.62	23.800	0.240	2.0
		9400	1880.0	23.31			23.930	0.247	
		9538	1907.6	23.27			23.890	0.245	
HSDPA	Subtest 1	9262	1852.4	22.10	23.8	0.62	22.720	0.187	2.0
		9400	1880.0	22.25			22.870	0.194	
		9538	1907.6	22.25			22.870	0.194	
	Subtest 2	9262	1852.4	22.00	23.8	0.62	22.620	0.183	2.0
		9400	1880.0	22.24			22.860	0.193	
		9538	1907.6	22.29			22.910	0.195	
	Subtest 3	9262	1852.4	21.68	23.3	0.62	22.300	0.170	2.0
		9400	1880.0	21.83			22.450	0.176	
		9538	1907.6	21.82			22.440	0.175	
	Subtest 4	9262	1852.4	21.71	23.3	0.62	22.330	0.171	2.0
		9400	1880.0	21.75			22.370	0.173	
		9538	1907.6	21.84			22.460	0.176	
HSUPA	Subtest 1	9262	1852.4	22.26	23.8	0.62	22.880	0.194	2.0
		9400	1880.0	22.05			22.670	0.185	
		9538	1907.6	22.26			22.880	0.194	
	Subtest 2	9262	1852.4	20.50	21.8	0.62	21.120	0.129	2.0
		9400	1880.0	21.03			21.650	0.146	
		9538	1907.6	21.03			21.650	0.146	
	Subtest 3	9262	1852.4	21.17	22.8	0.62	21.790	0.151	2.0
		9400	1880.0	21.21			21.830	0.152	
		9538	1907.6	21.11			21.730	0.149	
	Subtest 4	9262	1852.4	21.18	21.8	0.62	21.800	0.151	2.0
		9400	1880.0	21.73			22.350	0.172	
		9538	1907.6	21.24			21.860	0.153	
	Subtest 5	9262	1852.4	21.81	23.8	0.62	22.430	0.175	2.0
		9400	1880.0	21.87			22.490	0.177	
		9538	1907.6	21.86			22.480	0.177	

W-CDMA Band IV Measured Results

Mode		UL Ch No.	Freq. (MHz)	Maximum Average Power (dBm)		Antenna Gain (dBi)	EIRP		
				Measured Pwr	Tune-up Limit		EIRP (dBm)	EIRP (W)	EIRP Limit (W)
Release 99	Rel 99	1312	1712.4	23.49	24.0	3.22	26.710	0.469	1.0
		1413	1732.6	23.60			26.820	0.481	
		1513	1752.6	23.74			26.960	0.497	
HSDPA	Subtest 1	1312	1712.4	22.58	24.0	3.22	25.800	0.380	1.0
		1413	1732.6	22.65			25.870	0.386	
		1513	1752.6	22.78			26.000	0.398	
	Subtest 2	1312	1712.4	22.58	24.0	3.22	25.800	0.380	1.0
		1413	1732.6	22.62			25.840	0.384	
		1513	1752.6	22.85			26.070	0.405	
	Subtest 3	1312	1712.4	22.00	23.5	3.22	25.220	0.333	1.0
		1413	1732.6	22.04			25.260	0.336	
		1513	1752.6	22.28			25.500	0.355	
	Subtest 4	1312	1712.4	22.00	23.5	3.22	25.220	0.333	1.0
		1413	1732.6	22.04			25.260	0.336	
		1513	1752.6	22.27			25.490	0.354	
HSUPA	Subtest 1	1312	1712.4	21.89	24.0	3.22	25.110	0.324	1.0
		1413	1732.6	22.63			25.850	0.385	
		1513	1752.6	22.14			25.360	0.344	
	Subtest 2	1312	1712.4	21.60	22.0	3.22	24.820	0.303	1.0
		1413	1732.6	21.42			24.640	0.291	
		1513	1752.6	21.76			24.980	0.315	
	Subtest 3	1312	1712.4	21.36	23.0	3.22	24.580	0.287	1.0
		1413	1732.6	21.11			24.330	0.271	
		1513	1752.6	21.42			24.640	0.291	
	Subtest 4	1312	1712.4	22.00	22.0	3.22	25.220	0.333	1.0
		1413	1732.6	21.64			24.860	0.306	
		1513	1752.6	21.99			25.210	0.332	
	Subtest 5	1312	1712.4	22.06	24.0	3.22	25.280	0.337	1.0
		1413	1732.6	22.16			25.380	0.345	
		1513	1752.6	22.27			25.490	0.354	

W-CDMA Band V Measured Results 7W

Mode		UL Ch No.	Freq. (MHz)	Maximum Average Power (dBm)		Antenna Gain (dBi)	ERP		
				Measured Power	Tune-up Limit		ERP (dBm)	ERP (W)	ERP Limit (W)
Release 99	Rel 99	4132	826.4	23.03	25.0	0.39	21.270	0.134	7.0
		4183	836.6	23.04			21.280	0.134	
		4233	846.6	23.22			21.460	0.140	
HSDPA	Subtest 1	4132	826.4	21.94	25.0	0.39	20.180	0.104	7.0
		4183	836.6	22.04			20.280	0.107	
		4233	846.6	22.22			20.460	0.111	
	Subtest 2	4132	826.4	21.90	25.0	0.39	20.140	0.103	7.0
		4183	836.6	21.94			20.180	0.104	
		4233	846.6	22.22			20.460	0.111	
	Subtest 3	4132	826.4	21.32	24.5	0.39	19.560	0.090	7.0
		4183	836.6	21.47			19.710	0.094	
		4233	846.6	21.67			19.910	0.098	
	Subtest 4	4132	826.4	21.42	24.5	0.39	19.660	0.092	7.0
		4183	836.6	21.44			19.680	0.093	
		4233	846.6	21.65			19.890	0.097	
HSUPA	Subtest 1	4132	826.4	21.89	25.0	0.39	20.130	0.103	7.0
		4183	836.6	21.78			20.020	0.100	
		4233	846.6	21.95			20.190	0.104	
	Subtest 2	4132	826.4	21.20	23.0	0.39	19.440	0.088	7.0
		4183	836.6	21.12			19.360	0.086	
		4233	846.6	21.14			19.380	0.087	
	Subtest 3	4132	826.4	21.22	24.0	0.39	19.460	0.088	7.0
		4183	836.6	21.11			19.350	0.086	
		4233	846.6	21.13			19.370	0.086	
	Subtest 4	4132	826.4	21.15	23.0	0.39	19.390	0.087	7.0
		4183	836.6	21.11			19.350	0.086	
		4233	846.6	21.03			19.270	0.085	
	Subtest 5	4132	826.4	21.36	25.0	0.39	19.600	0.091	7.0
		4183	836.6	21.39			19.630	0.092	
		4233	846.6	21.61			19.850	0.097	

8. RADIATED TEST RESULTS

8.1. FIELD STRENGTH OF SPURIOUS RADIATION ABOVE 1GHz

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, and §27.53

LIMITS

FCC: §22.917(a), §24.238(a), and §27.53 (h)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

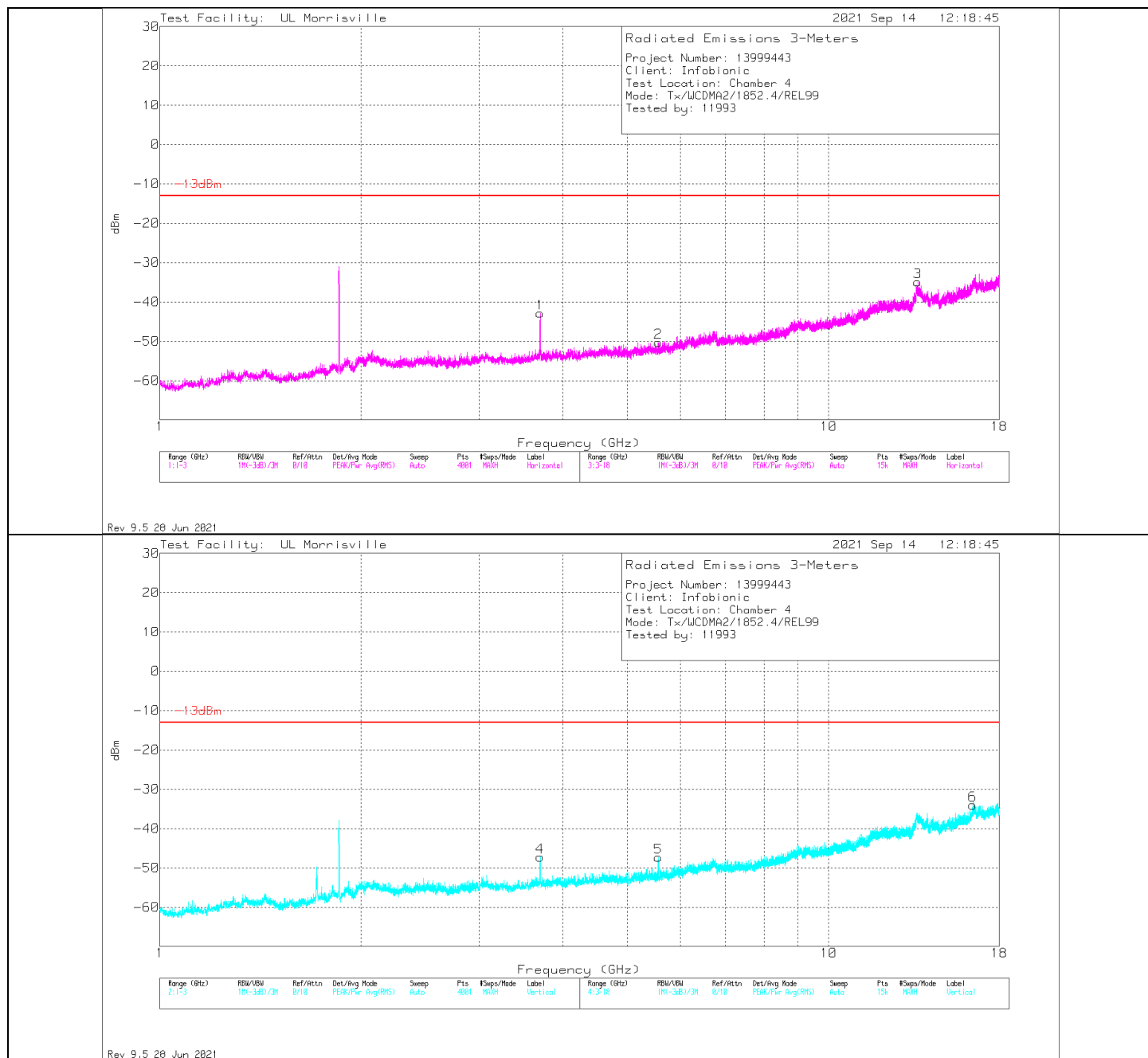
TEST PROCEDURE

KDB 971168 D01 v02r02/D02 v01

RESULTS

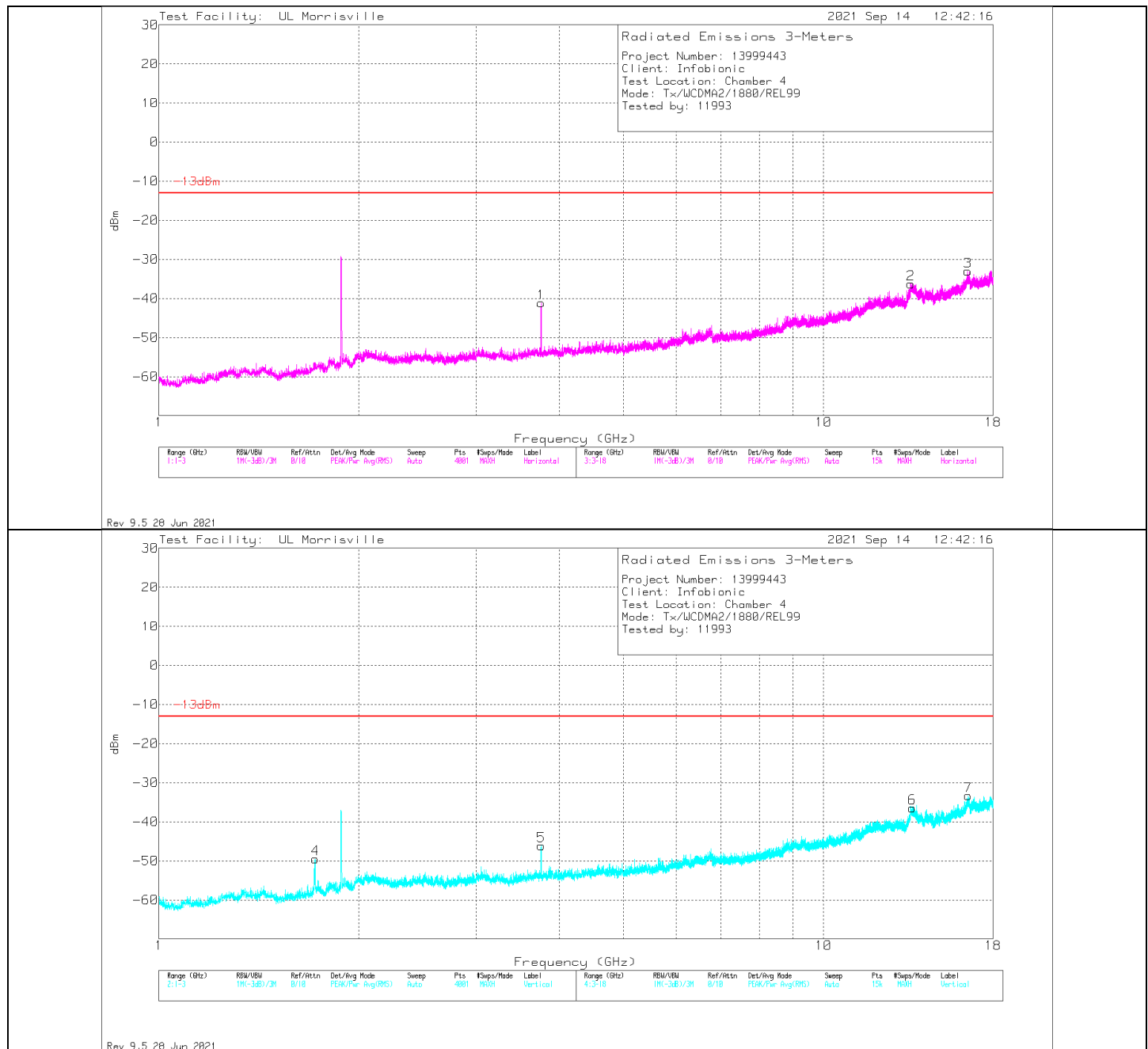
8.1.1. WCDMA BAND 2

Rel 99 Mode



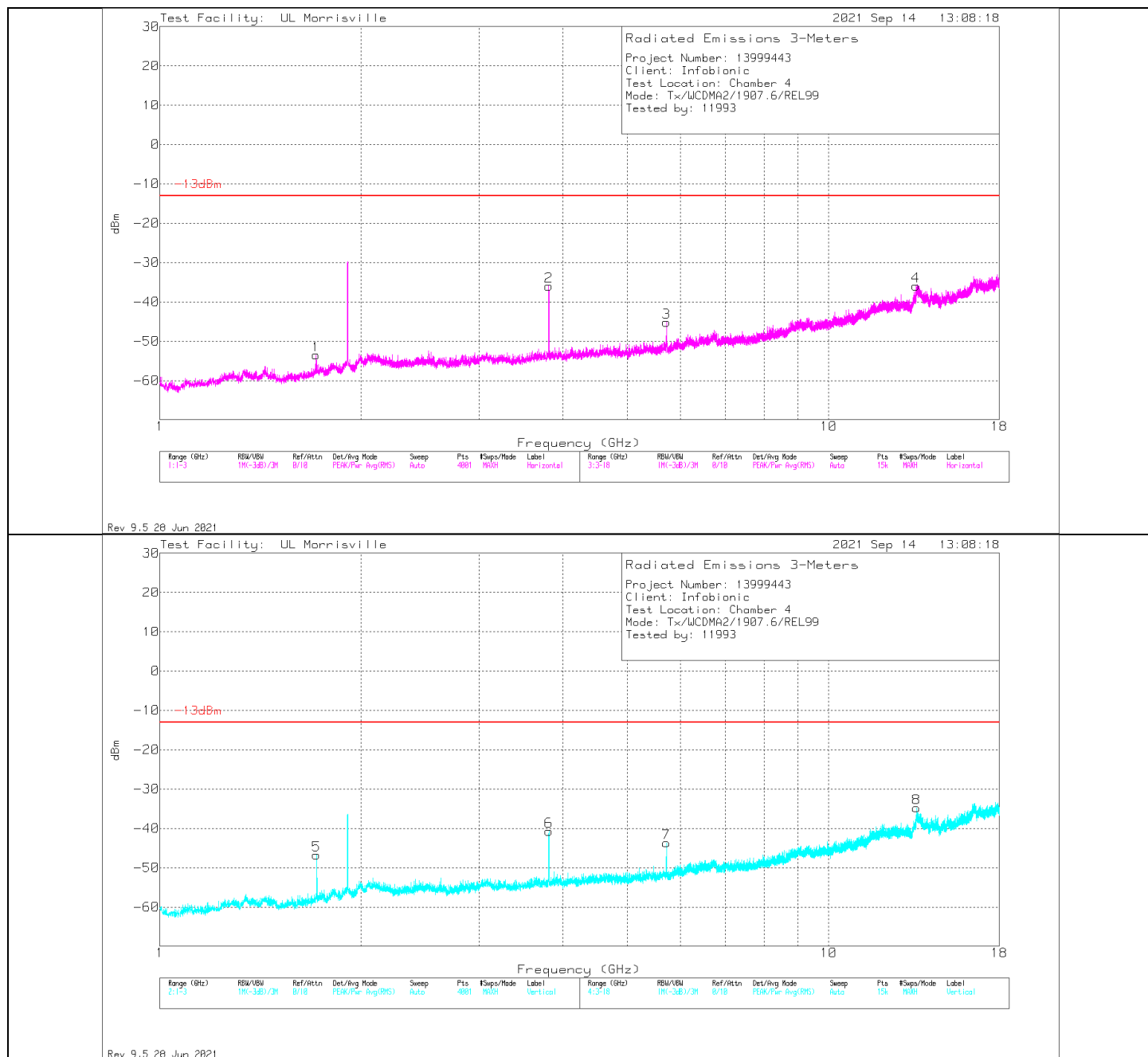
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	3.702	-58.43	Pk	33.1	-33.7	11.8	0	-47.23	-13	-34.23	0-360	200	V
1	3.703	-54.06	Pk	33.1	-33.7	11.8	0	-42.86	-13	-29.86	0-360	100	H
5	5.56	-61.22	Pk	34.4	-32.3	11.8	0	-47.32	-13	-34.32	0-360	300	V
2	5.561	-64.2	Pk	34.4	-32.3	11.8	0	-50.3	-13	-37.3	0-360	100	H
3	13.592	-62.34	Pk	38.7	-23.1	11.8	0	-34.94	-13	-21.94	0-360	200	H
6	16.422	-65.51	Pk	41.1	-21.4	11.8	0	-34.01	-13	-21.01	0-360	300	V

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.7185	-55.41	Pk	28.8	-36.6	11.8	1.9	-49.51	-13	-36.51	0-360	200	V
1	3.758	-52.74	Pk	33.3	-33.5	11.8	0	-41.14	-13	-28.14	0-360	100	H
5	3.761	-57.84	Pk	33.3	-33.4	11.8	0	-46.14	-13	-33.14	0-360	300	V
2	13.538	-64.26	Pk	38.7	-22.5	11.8	0	-36.26	-13	-23.26	0-360	100	H
6	13.597	-63.74	Pk	38.6	-23.1	11.8	0	-36.44	-13	-23.44	0-360	200	V
3	16.48	-64.94	Pk	41.2	-21.1	11.8	0	-33.04	-13	-20.04	0-360	200	H
7	16.508	-65.23	Pk	41.3	-21.2	11.8	0	-33.33	-13	-20.33	0-360	200	V

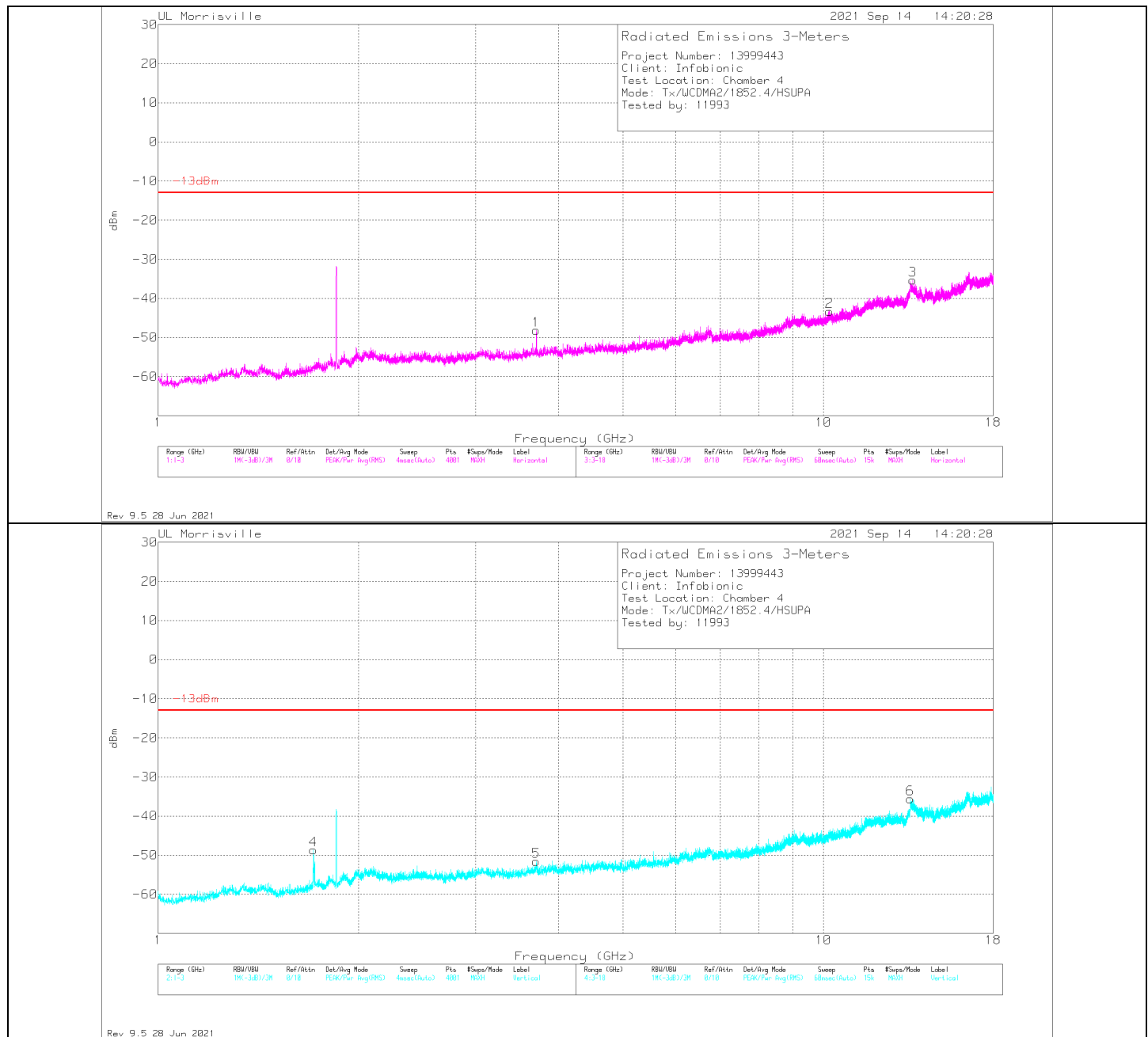
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.7115	-59.2	Pk	28.6	-36.6	11.8	1.9	-53.5	-13	-40.5	0-360	200	H
5	1.714	-52.57	Pk	28.7	-36.6	11.8	1.9	-46.77	-13	-33.77	0-360	300	V
2	3.813	-47.39	Pk	33.3	-33.7	11.8	0	-35.99	-13	-22.99	0-360	100	H
6	3.816	-52.12	Pk	33.3	-33.7	11.8	0	-40.72	-13	-27.72	0-360	200	V
7	5.719	-59.7	Pk	34.5	-30.3	11.8	0	-43.7	-13	-30.7	0-360	200	V
3	5.721	-61.19	Pk	34.5	-30.3	11.8	0	-45.19	-13	-32.19	0-360	100	H
4	13.503	-64.08	Pk	38.8	-22.5	11.8	0	-35.98	-13	-22.98	0-360	100	H
8	13.529	-62.78	Pk	38.7	-22.5	11.8	0	-34.78	-13	-21.78	0-360	100	V

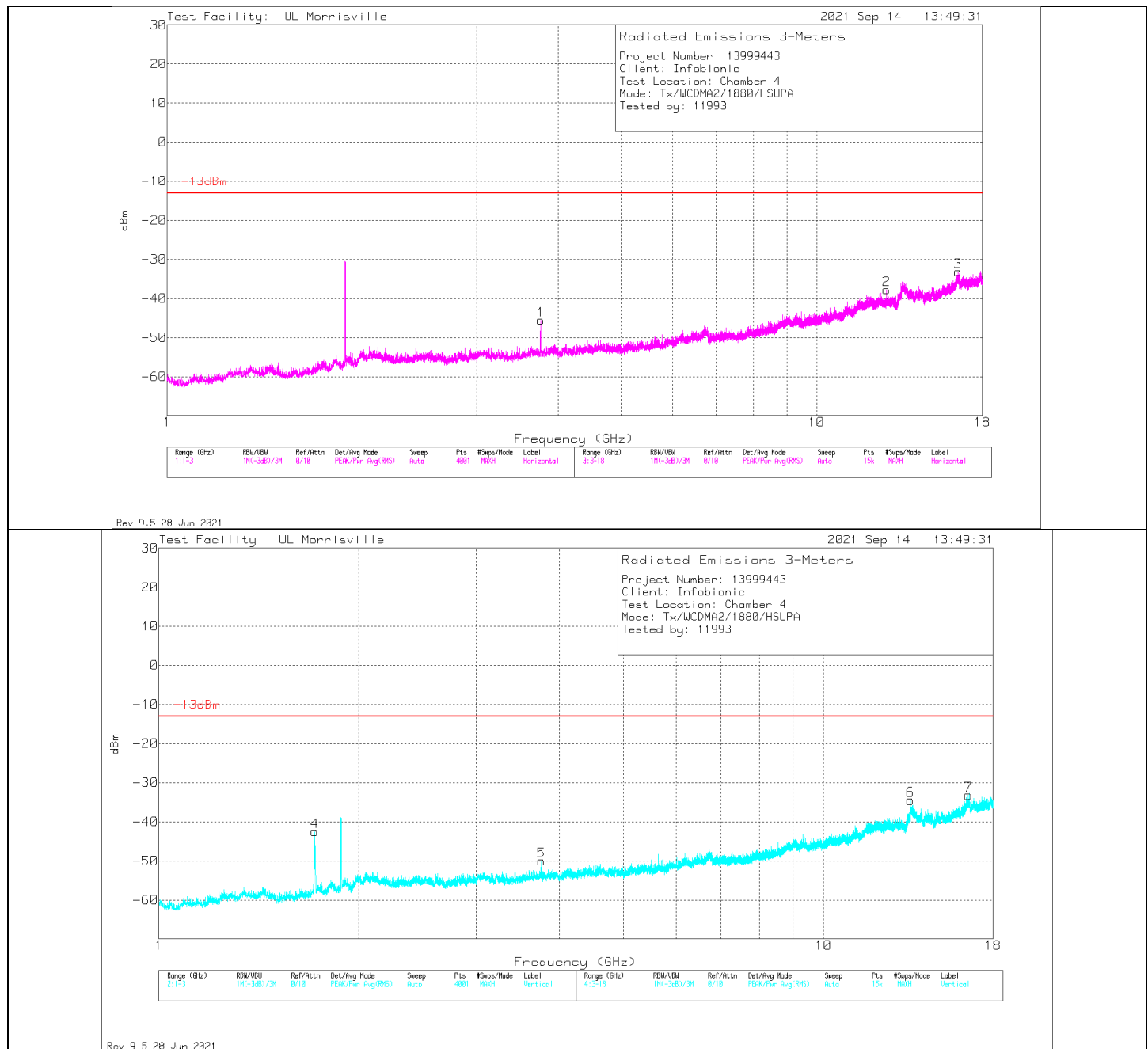
Pk - Peak detector

HSUPA Mode



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.7115	-54.39	Pk	28.6	-36.6	11.8	1.9	-48.69	-13	-35.69	0-360	300	V
5	3.702	-62.78	Pk	33.1	-33.7	11.8	0	-51.58	-13	-38.58	0-360	300	V
1	3.703	-59.33	Pk	33.1	-33.7	11.8	0	-48.13	-13	-35.13	0-360	100	H
2	10.216	-66.18	Pk	37.2	-26.2	11.8	0	-43.38	-13	-30.38	0-360	100	H
6	13.505	-63.54	Pk	38.7	-22.5	11.8	0	-35.54	-13	-22.54	0-360	200	V
3	13.62	-62.79	Pk	38.7	-23	11.8	0	-35.29	-13	-22.29	0-360	100	H

Pk - Peak detector


Rev 9.5 28 Jun 2021
Test Facility: UL Morrisville
2021 Sep 14 13:49:31

Radiated Emissions 3-Meters
Project Number: 13999443
Client: Infabionica
Test Location: Chamber 4
Mode: Tx/WCDMA2/1880/HSUPA
Tested by: 11993

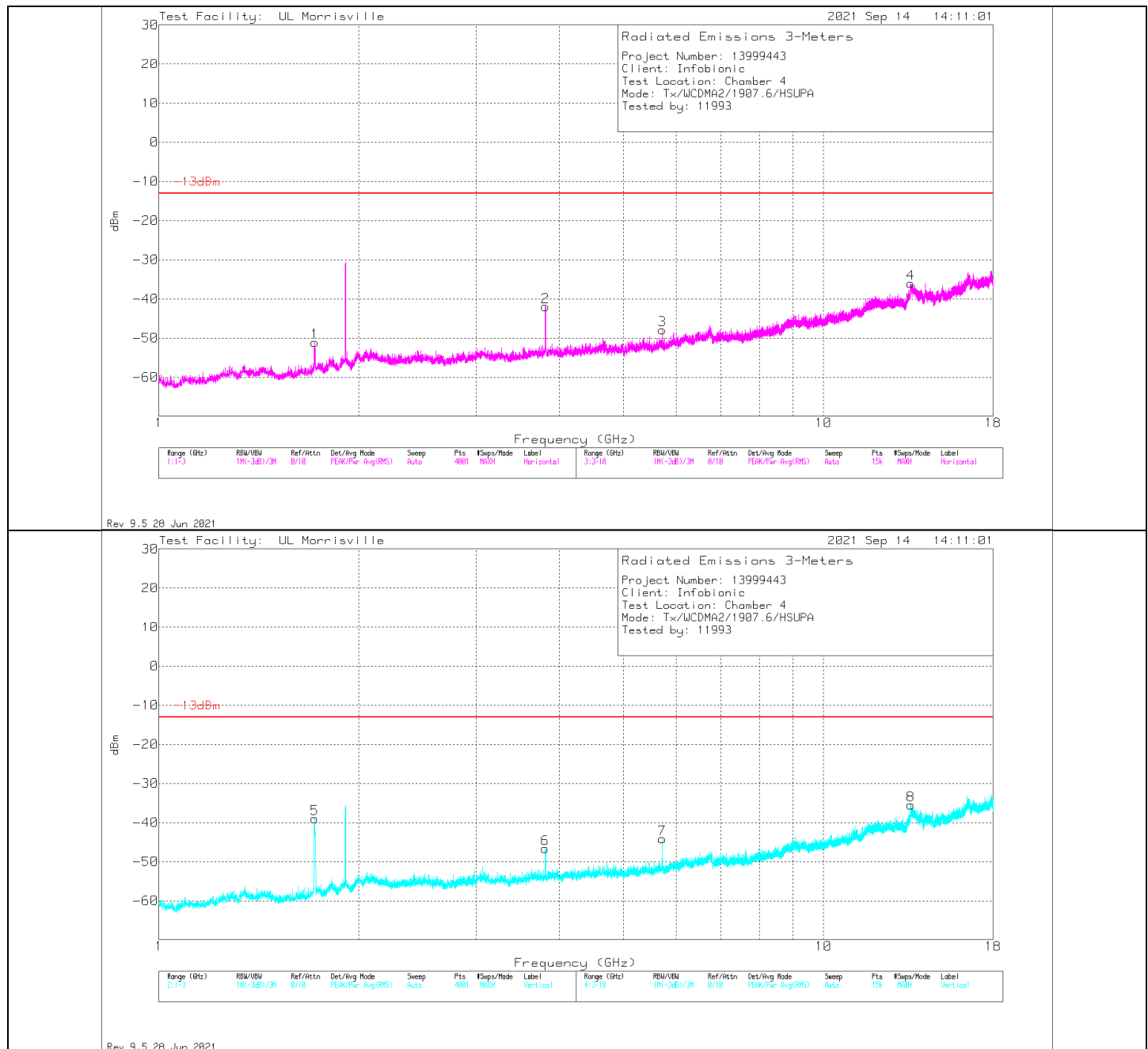
Range (GHz)	RBW/VBW	Ref/Attn	Det/Avg Mode	Sweep	Pts	#Seps/Mode	Label
1.1-3	10K-3dB/3M	0/10	PEAK/Pwr Avg(RMS)	Auto	4001	NR01	Vertical

Range (GHz)	RBW/VBW	Ref/Attn	Det/Avg Mode	Sweep	Pts	#Seps/Mode	Label
4.3-18	10K-3dB/3M	0/10	PEAK/Pwr Avg(RMS)	Auto	15k	NR01	Vertical

Rev 9.5 28 Jun 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.715	-48.36	Pk	28.7	-36.6	11.8	1.9	-42.56	-13	-29.56	0-360	200	V
1	3.762	-57.25	Pk	33.3	-33.4	11.8	0	-45.55	-13	-32.55	0-360	200	H
5	3.762	-61.71	Pk	33.3	-33.4	11.8	0	-50.01	-13	-37.01	0-360	100	V
2	12.822	-65.48	Pk	39.1	-23.2	11.8	0	-37.78	-13	-24.78	0-360	300	H
6	13.516	-62.4	Pk	38.7	-22.6	11.8	0	-34.5	-13	-21.5	0-360	100	V
7	16.516	-65.12	Pk	41.3	-21.2	11.8	0	-33.22	-13	-20.22	0-360	100	V
3	16.519	-65.17	Pk	41.4	-21.2	11.8	0	-33.17	-13	-20.17	0-360	200	H

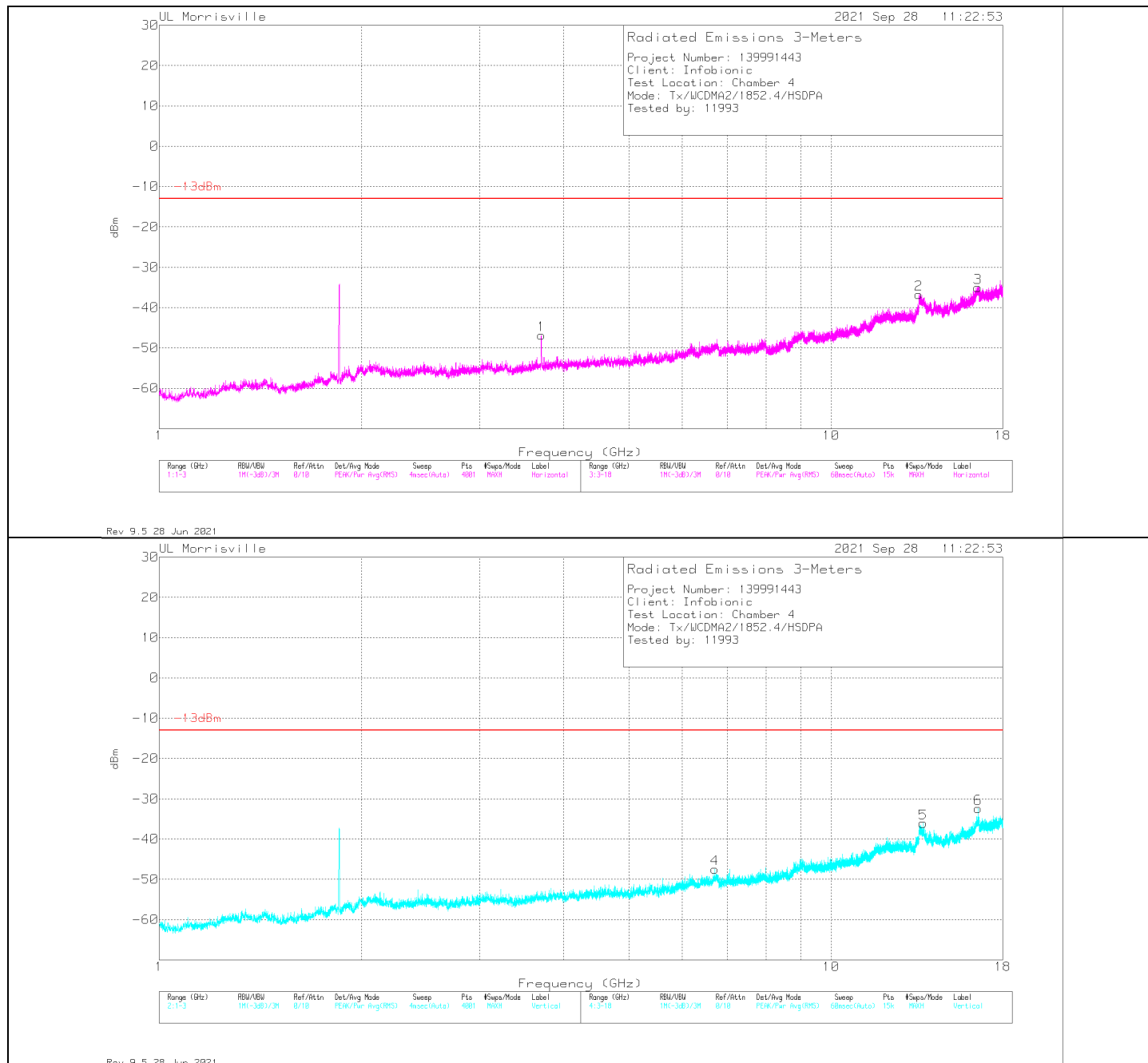
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	1.715	-44.81	Pk	28.7	-36.6	11.8	1.9	-39.01	-13	-26.01	0-360	300	V
1	1.716	-56.9	Pk	28.7	-36.6	11.8	1.9	-51.1	-13	-38.1	0-360	200	H
6	3.812	-58.12	Pk	33.3	-33.7	11.8	0	-46.72	-13	-33.72	0-360	200	V
2	3.817	-53.37	Pk	33.3	-33.7	11.8	0	-41.97	-13	-28.97	0-360	100	H
3	5.719	-63.92	Pk	34.5	-30.3	11.8	0	-47.92	-13	-34.92	0-360	100	H
7	5.72	-60.14	Pk	34.5	-30.3	11.8	0	-44.14	-13	-31.14	0-360	200	V
4	13.525	-64.04	Pk	38.7	-22.5	11.8	0	-36.04	-13	-23.04	0-360	100	H
8	13.536	-63.48	Pk	38.7	-22.5	11.8	0	-35.48	-13	-22.48	0-360	300	V

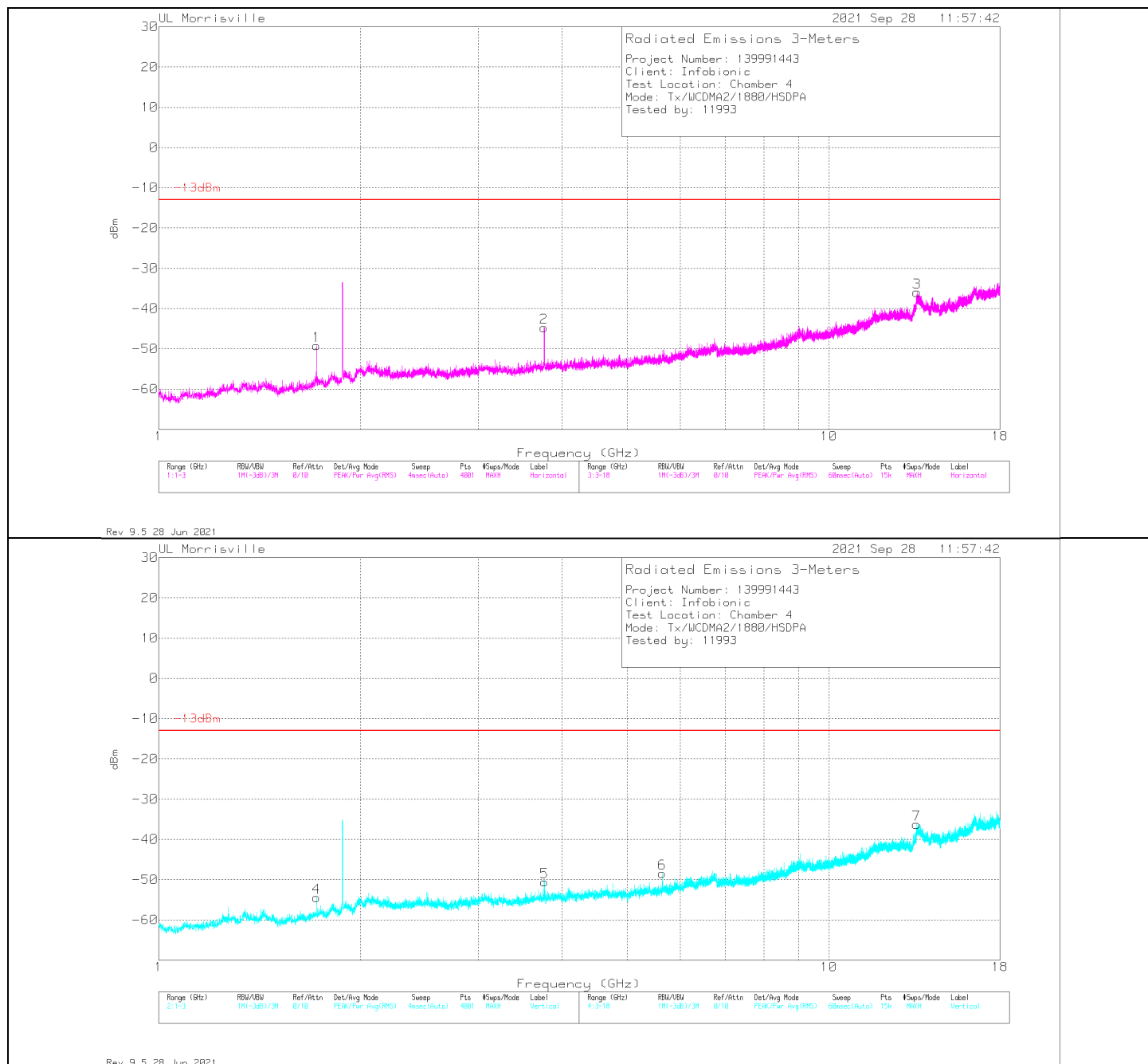
Pk - Peak detector

HSDPA Mode



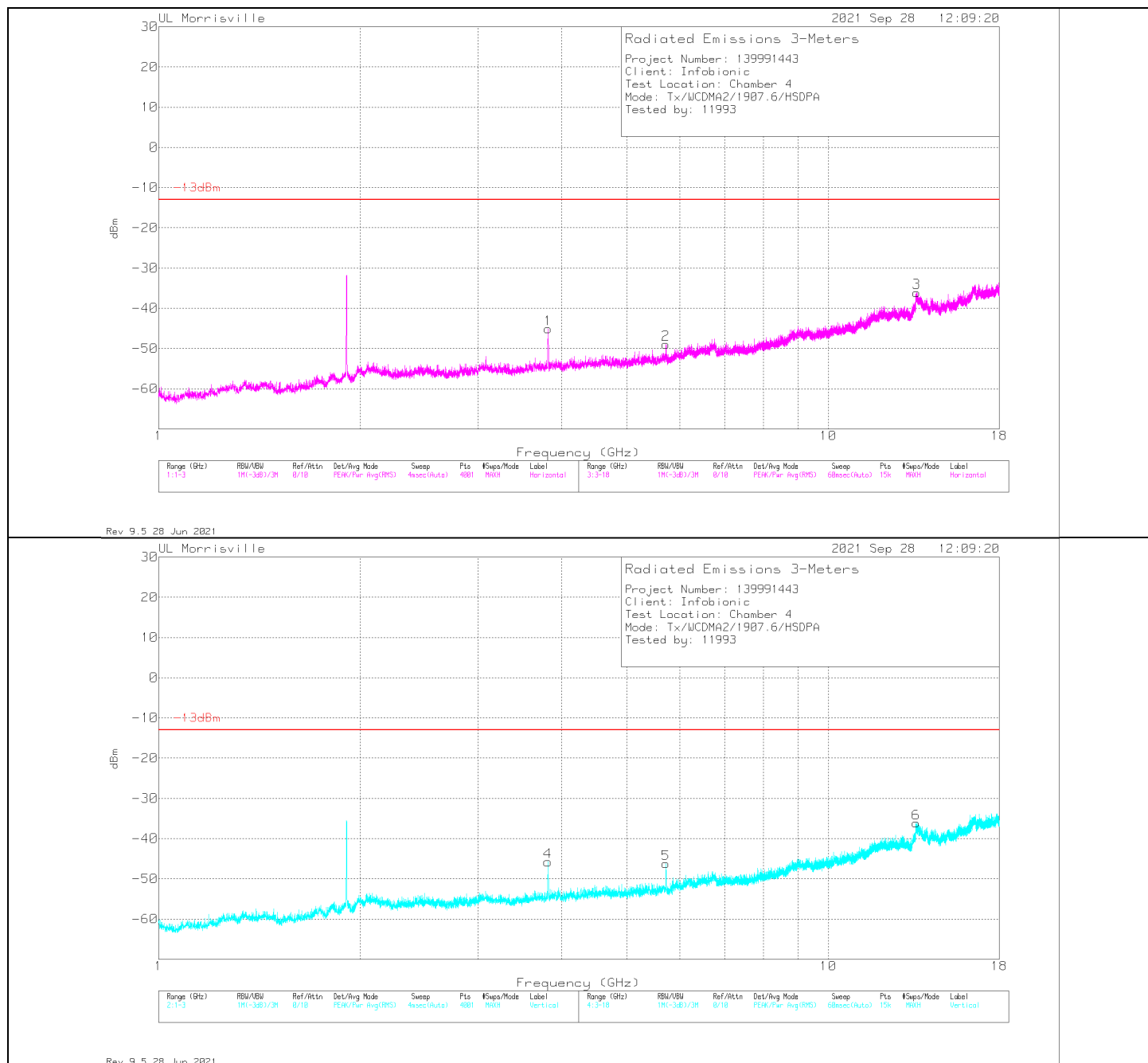
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.706	-57.99	Pk	33.1	-33.7	11.8	0	-46.79	-13	-33.79	0-360	100	H
4	6.707	-66.02	Pk	35.5	-28.7	11.8	0	-47.42	-13	-34.42	0-360	300	V
2	13.502	-64.81	Pk	38.8	-22.5	11.8	0	-36.71	-13	-23.71	0-360	200	H
5	13.701	-64.15	Pk	38.5	-22.2	11.8	0	-36.05	-13	-23.05	0-360	200	V
3	16.526	-67.02	Pk	41.4	-21.2	11.8	0	-35.02	-13	-22.02	0-360	200	H
6	16.548	-64.38	Pk	41.4	-21.2	11.8	0	-32.38	-13	-19.38	0-360	200	V

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.719	-55.1	Pk	28.8	-36.6	11.8	1.9	-49.2	-13	-36.2	0-360	200	H
4	1.7195	-60.31	Pk	28.8	-36.6	11.8	1.9	-54.41	-13	-41.41	0-360	200	V
2	3.758	-56.28	Pk	33.3	-33.5	11.8	0	-44.68	-13	-31.68	0-360	100	H
5	3.761	-62.26	Pk	33.3	-33.4	11.8	0	-50.56	-13	-37.56	0-360	300	V
6	5.643	-63.71	Pk	34.4	-30.9	11.8	0	-48.41	-13	-35.41	0-360	300	V
7	13.513	-64.23	Pk	38.7	-22.5	11.8	0	-36.23	-13	-23.23	0-360	300	V
3	13.535	-63.94	Pk	38.7	-22.5	11.8	0	-35.94	-13	-22.94	0-360	100	H

Pk - Peak detector

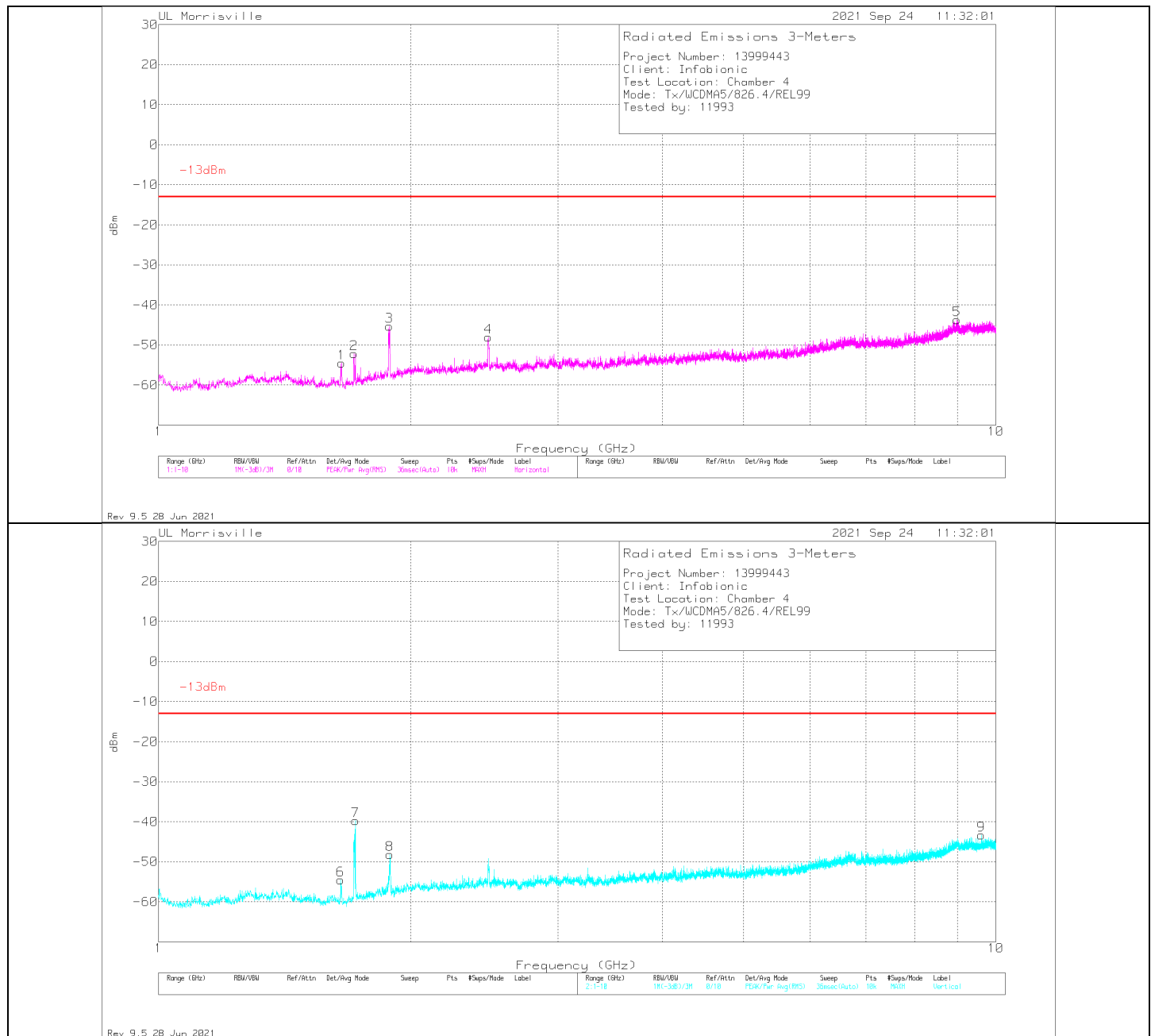


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	3.813	-57.18	Pk	33.3	-33.7	11.8	0	-45.78	-13	-32.78	0-360	300	V
1	3.817	-56.53	Pk	33.3	-33.7	11.8	0	-45.13	-13	-32.13	0-360	200	H
2	5.719	-64.92	Pk	34.5	-30.3	11.8	0	-48.92	-13	-35.92	0-360	200	H
5	5.72	-62.24	Pk	34.5	-30.3	11.8	0	-46.24	-13	-33.24	0-360	300	V
6	13.516	-64.07	Pk	38.7	-22.6	11.8	0	-36.17	-13	-23.17	0-360	300	V
3	13.542	-63.99	Pk	38.7	-22.6	11.8	0	-36.09	-13	-23.09	0-360	200	H

Pk - Peak detector

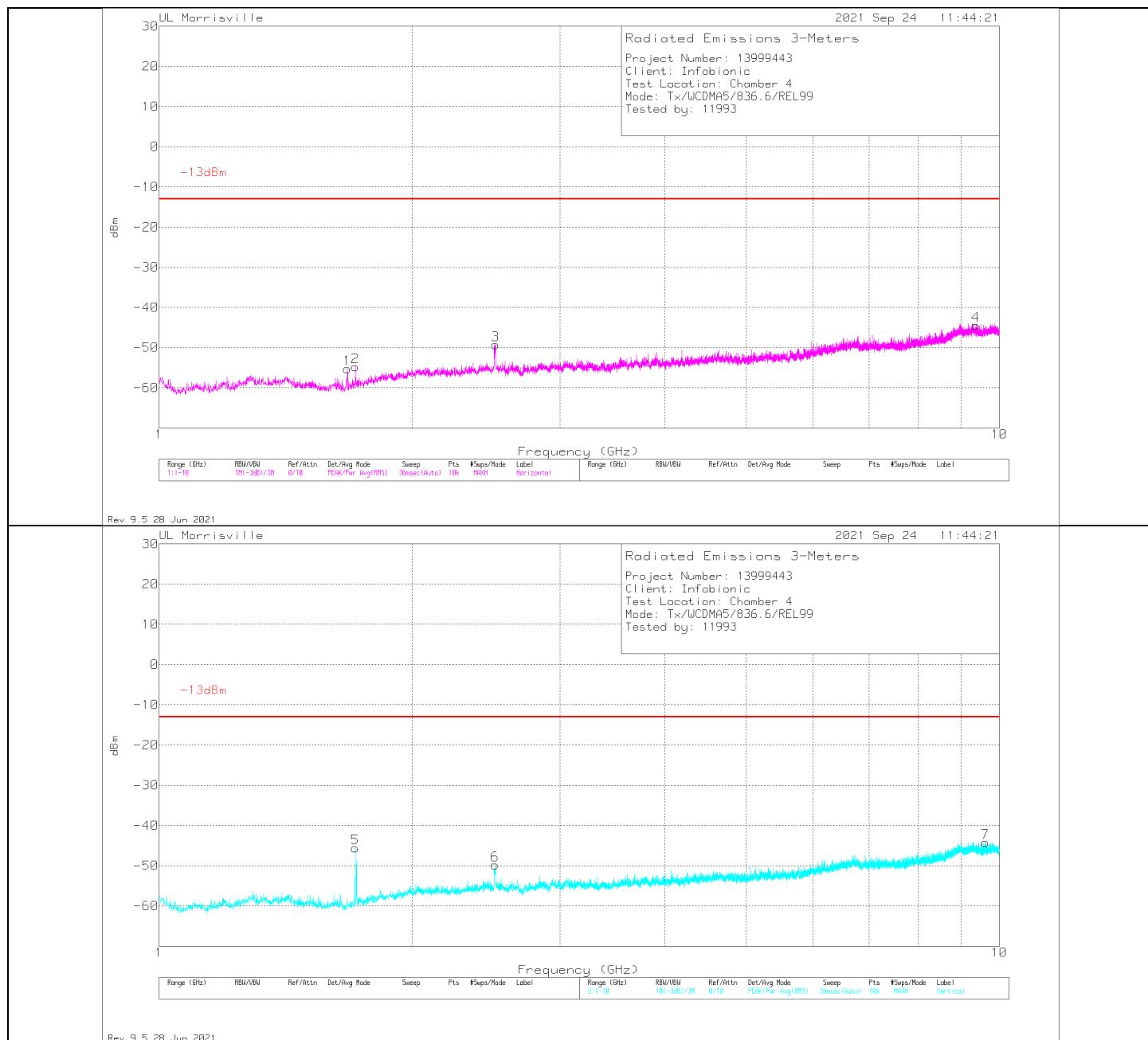
8.1.2. WCDMA BAND 5

Rel 99 Mode



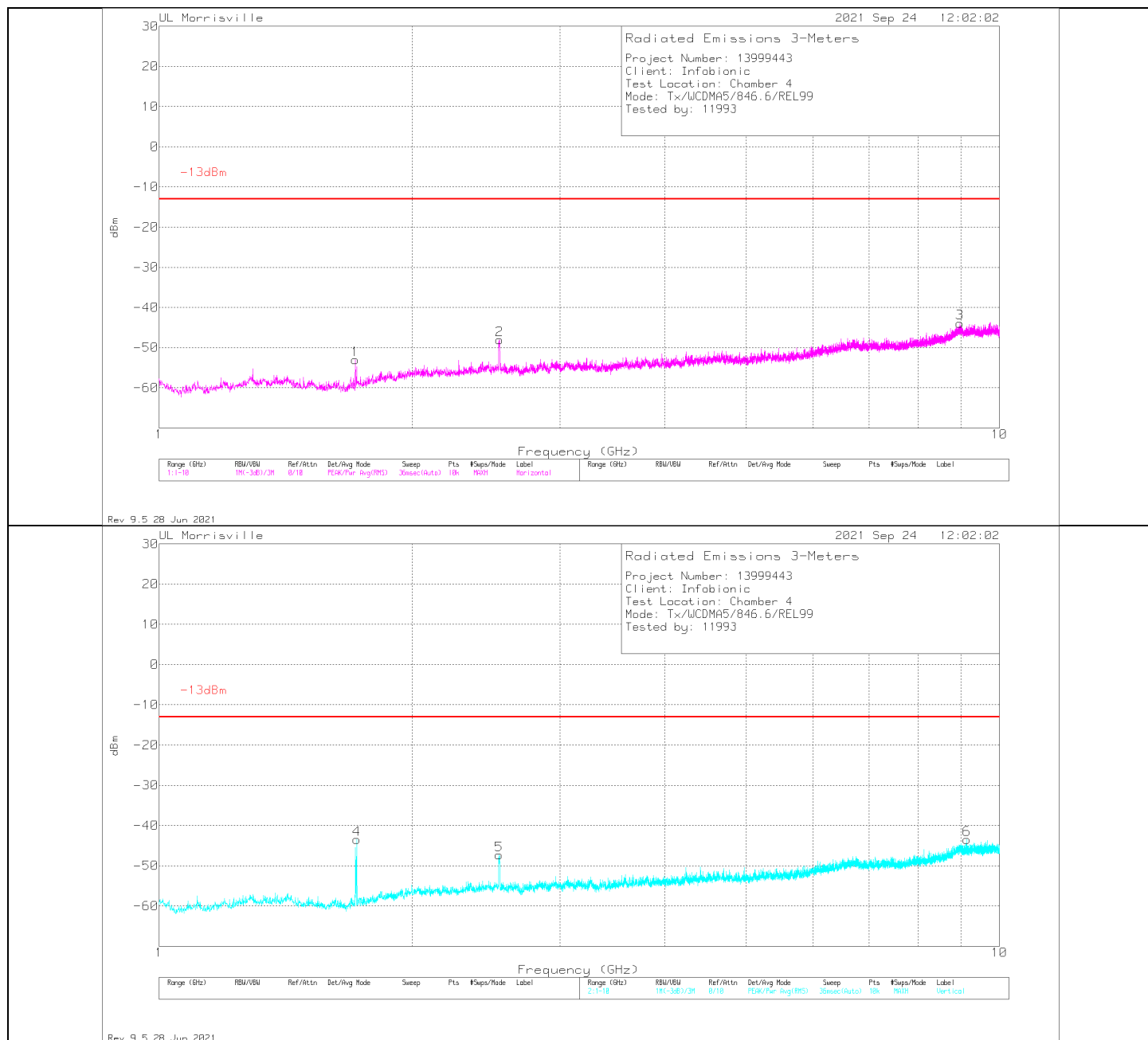
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	1.6507	-58.17	Pk	27.9	-36.6	.6	11.8	-54.47	-13	-41.47	0-360	300	V
1	1.6534	-58.07	Pk	27.9	-36.6	.5	11.8	-54.47	-13	-41.47	0-360	200	H
2	1.7119	-56.44	Pk	28.7	-36.6	.4	11.8	-52.14	-13	-39.14	0-360	200	H
7	1.7182	-44.13	Pk	28.8	-36.6	.4	11.8	-39.73	-13	-26.73	0-360	300	V
3	1.8856	-51.57	Pk	30.6	-36.6	.4	11.8	-45.37	-13	-32.37	0-360	200	H
8	1.8901	-54.33	Pk	30.6	-36.6	.4	11.8	-48.13	-13	-35.13	0-360	200	V
4	2.476	-56.21	Pk	32.6	-36.7	.4	11.8	-48.11	-13	-35.11	0-360	100	H
5	8.983	-65.49	Pk	35.9	-26.6	.7	11.8	-43.69	-13	-30.69	0-360	100	H
9	9.6094	-65.56	Pk	36.6	-26.9	.7	11.8	-43.36	-13	-30.36	0-360	200	V

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.675	-58.85	Pk	28	-36.6	.4	11.8	-55.25	-13	-42.25	0-360	100	H
2	1.7119	-59.02	Pk	28.7	-36.6	.4	11.8	-54.72	-13	-41.72	0-360	100	H
3	2.5129	-57.36	Pk	32.5	-36.7	.5	11.8	-49.26	-13	-36.26	0-360	100	H
4	9.3826	-66.51	Pk	36.4	-26.7	.6	11.8	-44.41	-13	-31.41	0-360	100	H
5	1.7119	-49.89	Pk	28.7	-36.6	.4	11.8	-45.59	-13	-32.59	0-360	300	V
6	2.5111	-57.88	Pk	32.5	-36.7	.5	11.8	-49.78	-13	-36.78	0-360	200	V
7	9.6211	-66.47	Pk	36.6	-26.8	.7	11.8	-44.17	-13	-31.17	0-360	300	V

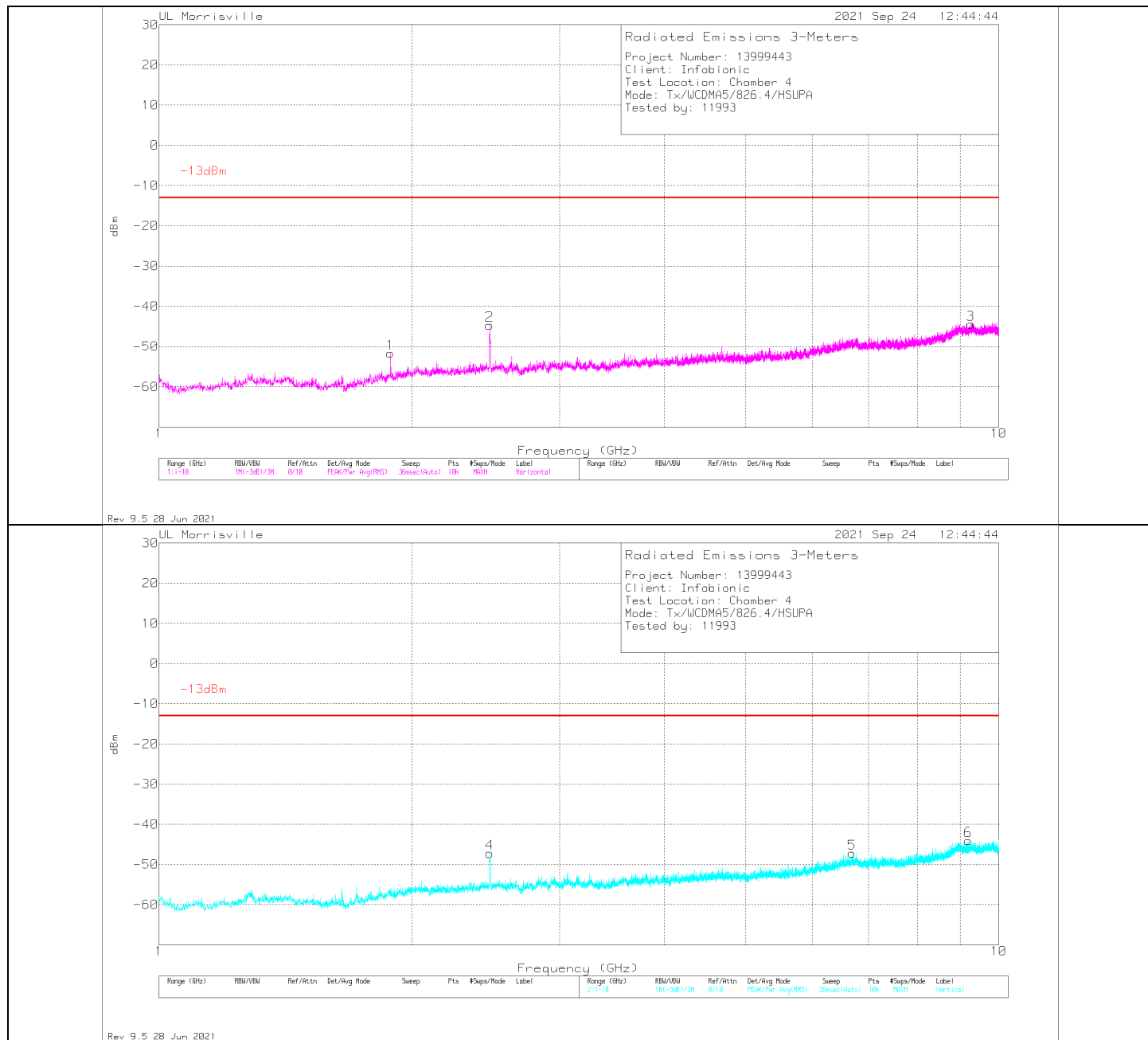
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.7128	-57.34	Pk	28.7	-36.6	.4	11.8	-53.04	-13	-40.04	0-360	200	H
4	1.7182	-47.92	Pk	28.8	-36.6	.4	11.8	-43.52	-13	-30.52	0-360	300	V
5	2.5372	-55.26	Pk	32.4	-36.7	.5	11.8	-47.26	-13	-34.26	0-360	300	V
2	2.5426	-55.98	Pk	32.3	-36.7	.5	11.8	-48.08	-13	-35.08	0-360	200	H
3	8.9785	-65.6	Pk	35.9	-26.7	.7	11.8	-43.9	-13	-30.9	0-360	100	H
6	9.1531	-65.22	Pk	36.2	-26.9	.6	11.8	-43.52	-13	-30.52	0-360	300	V

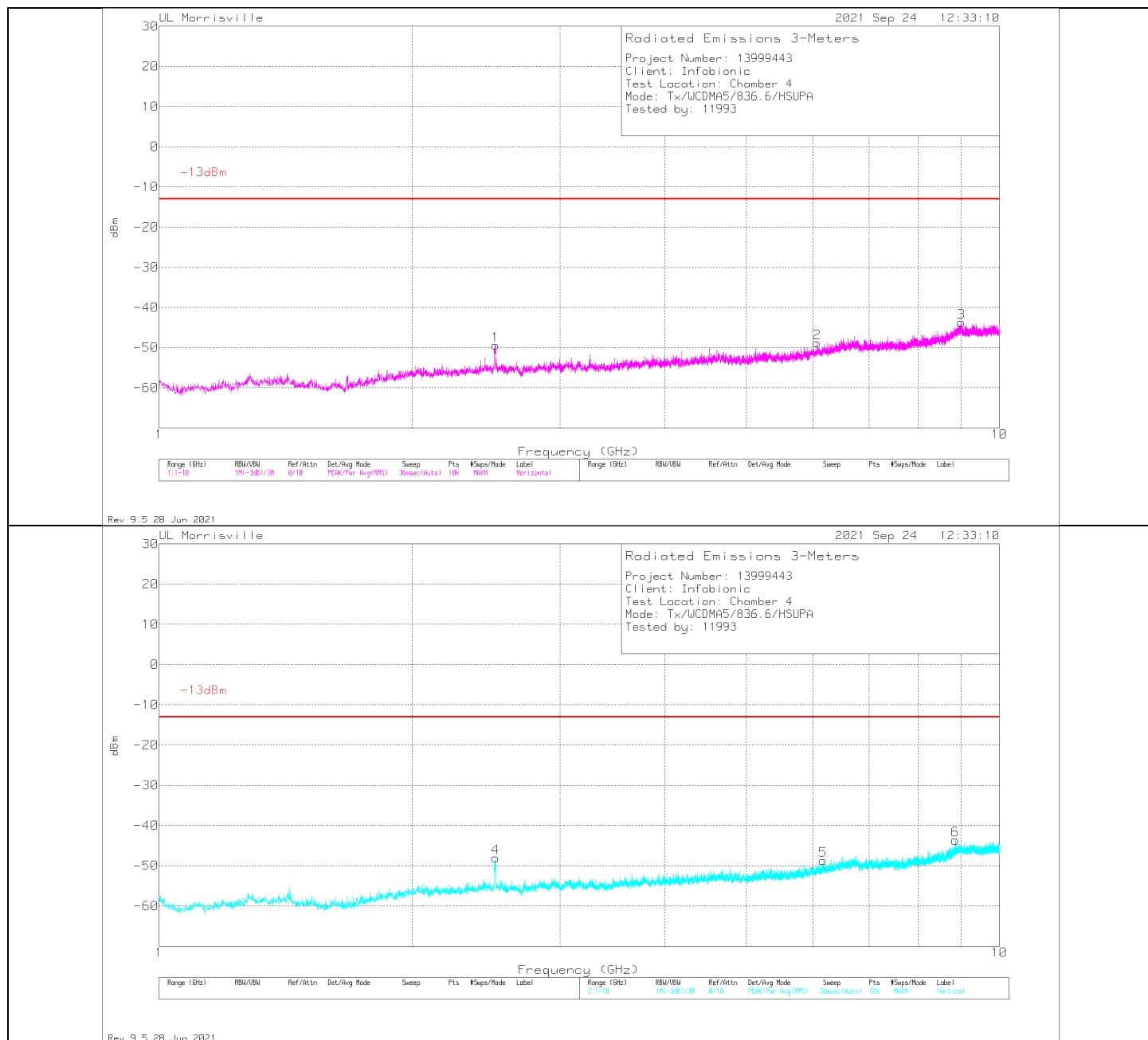
Pk - Peak detector

HSUPA Mode



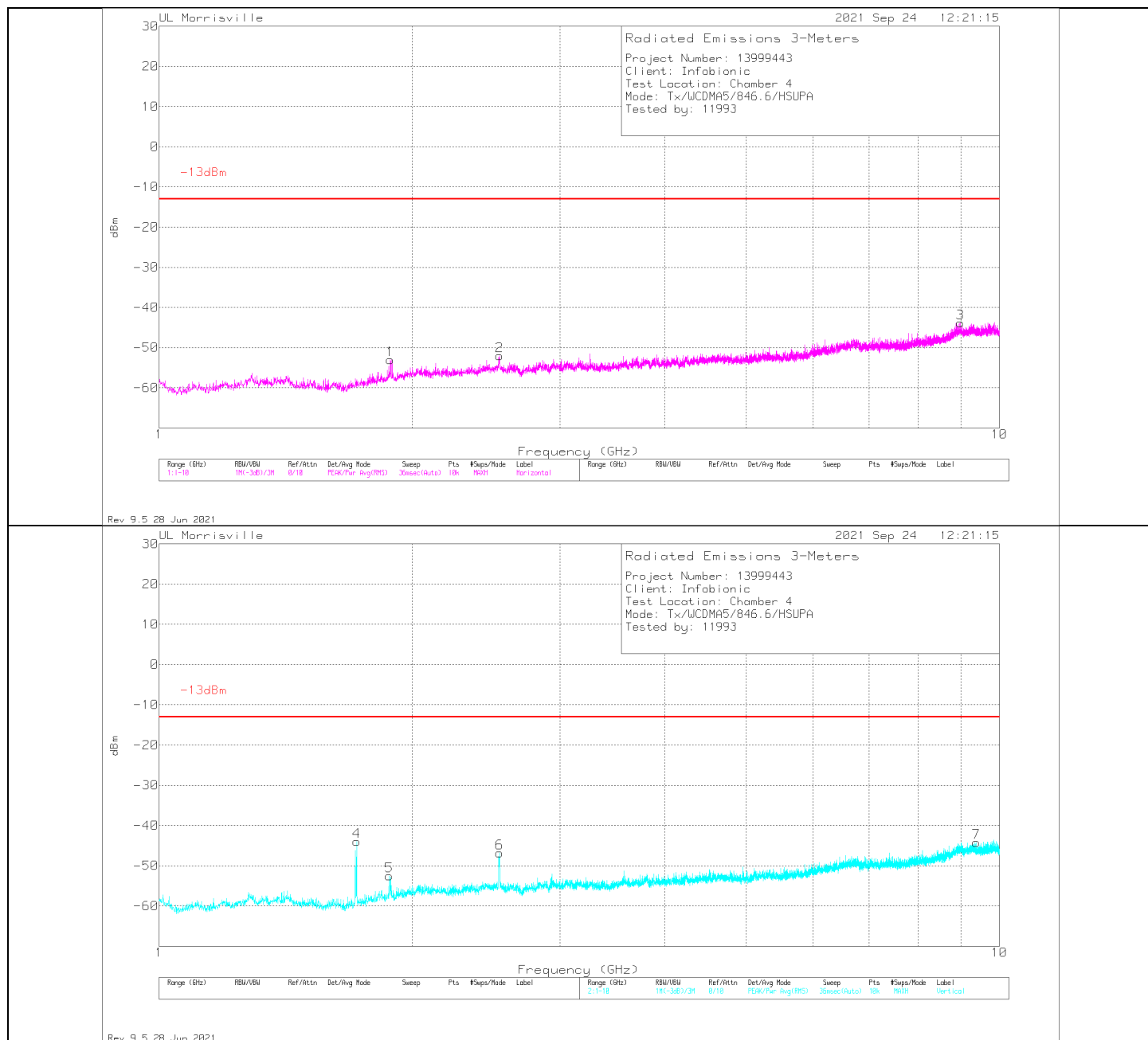
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.8865	-57.84	Pk	30.6	-36.6	.4	11.8	-51.64	-13	-38.64	0-360	200	H
2	2.4751	-52.75	Pk	32.6	-36.7	.4	11.8	-44.65	-13	-31.65	0-360	100	H
4	2.476	-55.35	Pk	32.6	-36.7	.4	11.8	-47.25	-13	-34.25	0-360	300	V
5	6.6862	-65.52	Pk	35.5	-29.6	.6	11.8	-47.22	-13	-34.22	0-360	200	V
6	9.1981	-65.63	Pk	36.2	-27	.6	11.8	-44.03	-13	-31.03	0-360	300	V
3	9.2575	-66.26	Pk	36.3	-26.9	.6	11.8	-44.46	-13	-31.46	0-360	100	H

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.5129	-57.54	Pk	32.5	-36.7	.5	11.8	-49.44	-13	-36.44	0-360	100	H
4	2.5129	-56.15	Pk	32.5	-36.7	.5	11.8	-48.05	-13	-35.05	0-360	300	V
2	6.0688	-65.39	Pk	35.2	-30.9	.5	11.8	-48.79	-13	-35.79	0-360	100	H
5	6.1714	-65.76	Pk	35.3	-30.5	.5	11.8	-48.66	-13	-35.66	0-360	200	V
6	8.8705	-65.15	Pk	36	-27	.7	11.8	-43.65	-13	-30.65	0-360	200	V
3	9.0154	-65.64	Pk	35.9	-26.5	.7	11.8	-43.74	-13	-30.74	0-360	100	H

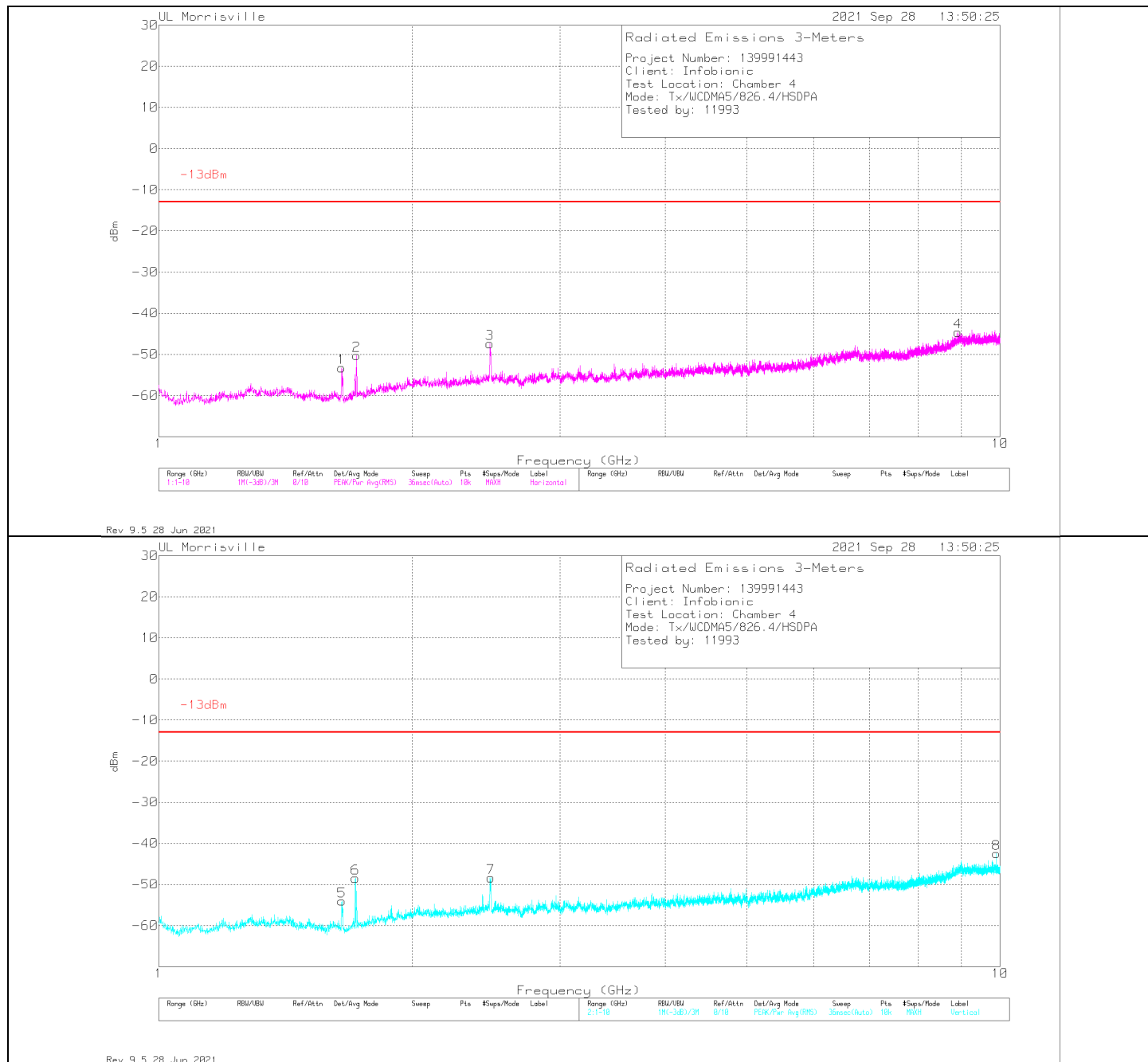
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.7182	-48.39	Pk	28.8	-36.6	.4	11.8	-43.99	-13	-30.99	0-360	300	V
5	1.8793	-58.71	Pk	30.6	-36.6	.4	11.8	-52.51	-13	-39.51	0-360	200	V
1	1.8847	-59.22	Pk	30.6	-36.6	.4	11.8	-53.02	-13	-40.02	0-360	200	H
2	2.5426	-59.89	Pk	32.3	-36.7	.5	11.8	-51.99	-13	-38.99	0-360	100	H
6	2.5426	-54.73	Pk	32.3	-36.7	.5	11.8	-46.83	-13	-33.83	0-360	300	V
3	8.9839	-65.65	Pk	35.9	-26.6	.7	11.8	-43.85	-13	-30.85	0-360	100	H
7	9.388	-66.31	Pk	36.4	-26.7	.6	11.8	-44.21	-13	-31.21	0-360	300	V

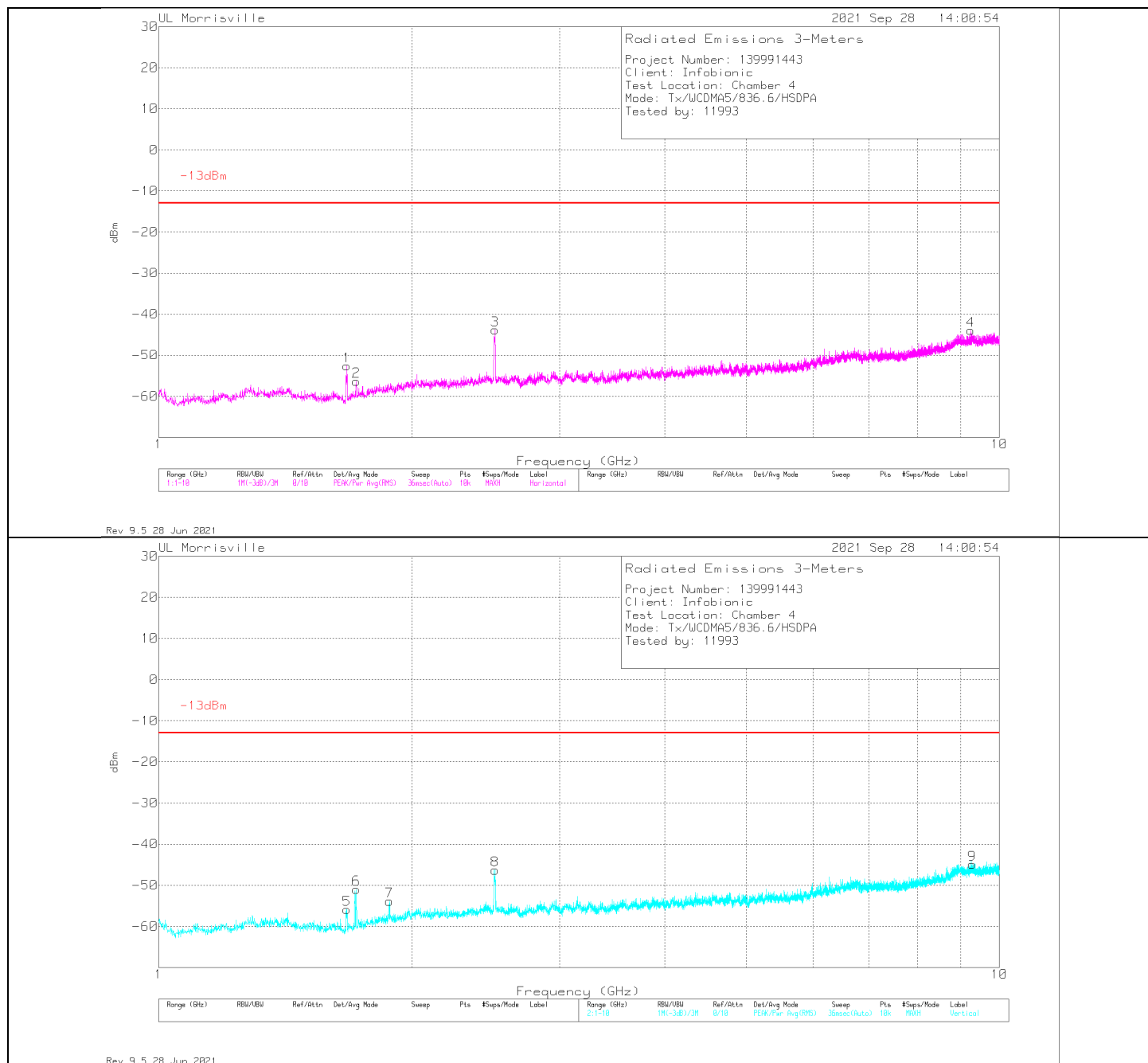
Pk - Peak detector

HSDPA Mode



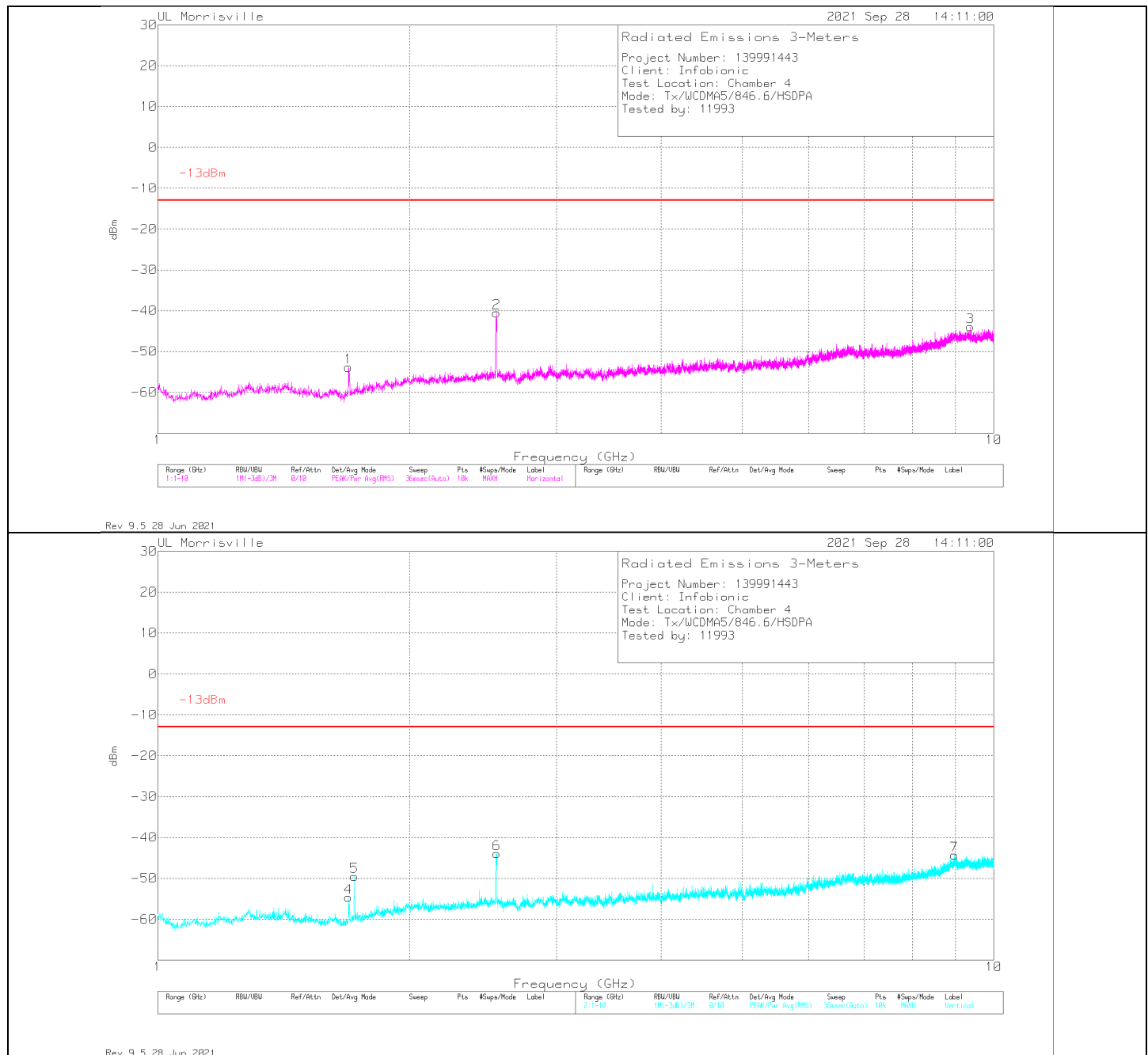
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.6498	-56.96	Pk	27.9	-36.6	.6	11.8	-53.26	-13	-40.26	0-360	200	H
5	1.6507	-57.78	Pk	27.9	-36.6	.6	11.8	-54.08	-13	-41.08	0-360	300	V
6	1.7128	-52.79	Pk	28.7	-36.6	.4	11.8	-48.49	-13	-35.49	0-360	300	V
2	1.7182	-54.64	Pk	28.8	-36.6	.4	11.8	-50.24	-13	-37.24	0-360	200	H
3	2.4751	-55.5	Pk	32.6	-36.7	.4	11.8	-47.4	-13	-34.4	0-360	200	H
7	2.4823	-56.47	Pk	32.6	-36.7	.4	11.8	-48.37	-13	-35.37	0-360	300	V
4	8.9128	-66.21	Pk	36	-26.9	.7	11.8	-44.61	-13	-31.61	0-360	100	H
8	9.9028	-64.62	Pk	37	-27.3	.6	11.8	-42.52	-13	-29.52	0-360	300	V

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.6741	-56.23	Pk	28	-36.6	.4	11.8	-52.63	-13	-39.63	0-360	100	H
5	1.675	-59.5	Pk	28	-36.6	.4	11.8	-55.9	-13	-42.9	0-360	200	V
2	1.7182	-60.73	Pk	28.8	-36.6	.4	11.8	-56.33	-13	-43.33	0-360	200	H
6	1.7182	-55.39	Pk	28.8	-36.6	.4	11.8	-50.99	-13	-37.99	0-360	200	V
7	1.882	-60.06	Pk	30.6	-36.6	.4	11.8	-53.86	-13	-40.86	0-360	300	V
8	2.512	-54.41	Pk	32.5	-36.7	.5	11.8	-46.31	-13	-33.31	0-360	300	V
3	2.5129	-51.96	Pk	32.5	-36.7	.5	11.8	-43.86	-13	-30.86	0-360	100	H
4	9.2485	-65.75	Pk	36.3	-26.9	.6	11.8	-43.95	-13	-30.95	0-360	200	H
9	9.2809	-66.83	Pk	36.4	-26.9	.6	11.8	-44.93	-13	-31.93	0-360	200	V

Pk - Peak detector

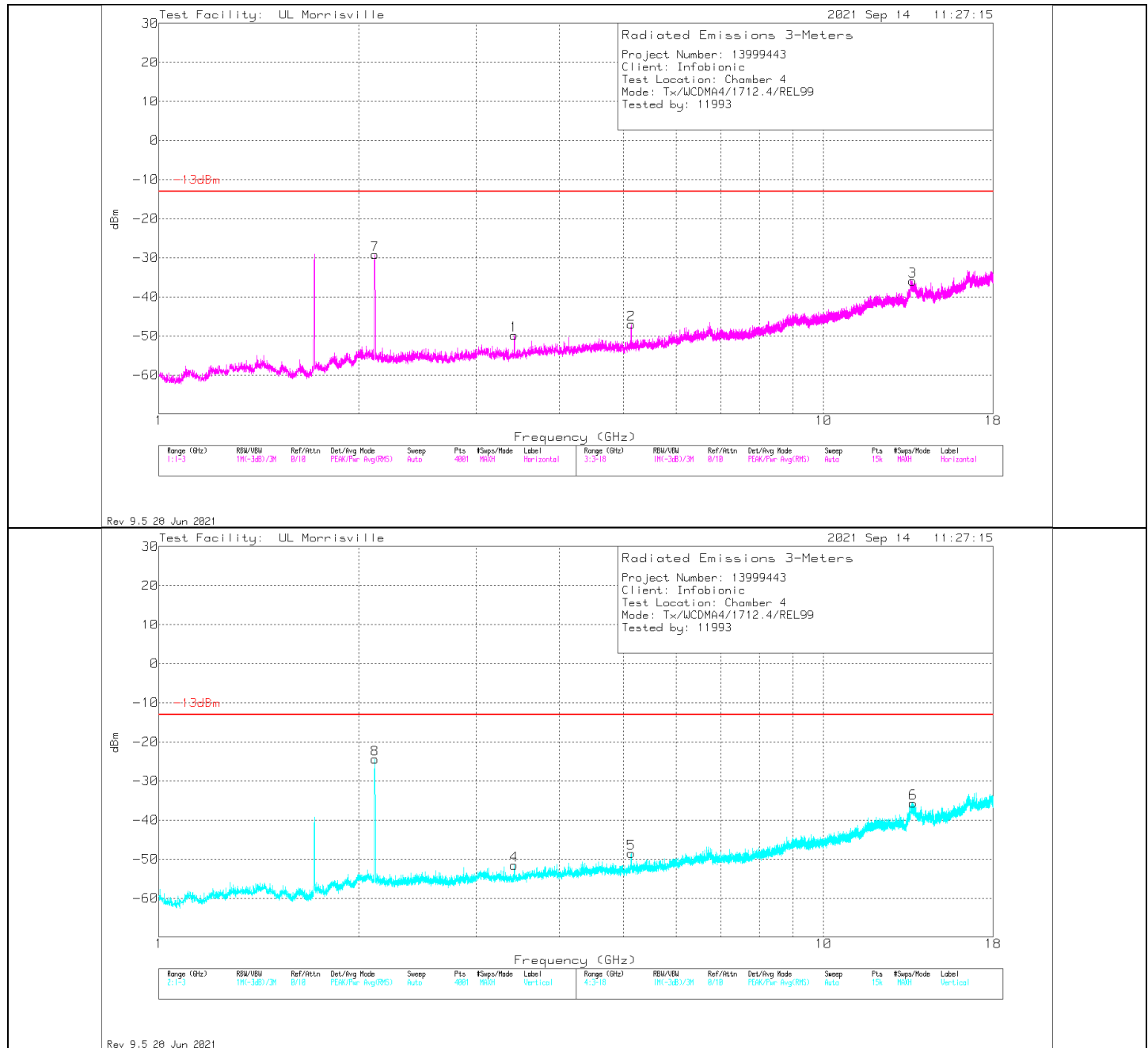


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.6903	-58.59	Pk	28.3	-36.6	.4	11.8	-54.69	-13	-41.69	0-360	300	V
1	1.69075	-57.86	Pk	28.4	-36.6	.4	11.8	-53.86	-13	-40.86	0-360	200	H
5	1.7191	-53.93	Pk	28.8	-36.6	.4	11.8	-49.53	-13	-36.53	0-360	200	V
2	2.5426	-48.4	Pk	32.3	-36.7	.5	11.8	-40.5	-13	-27.5	0-360	100	H
6	2.5435	-51.87	Pk	32.3	-36.7	.5	11.8	-43.97	-13	-30.97	0-360	300	V
7	8.9722	-65.93	Pk	35.9	-26.8	.7	11.8	-44.33	-13	-31.33	0-360	300	V
3	9.3772	-66.08	Pk	36.4	-26.7	.6	11.8	-43.98	-13	-30.98	0-360	100	H

Pk - Peak detector

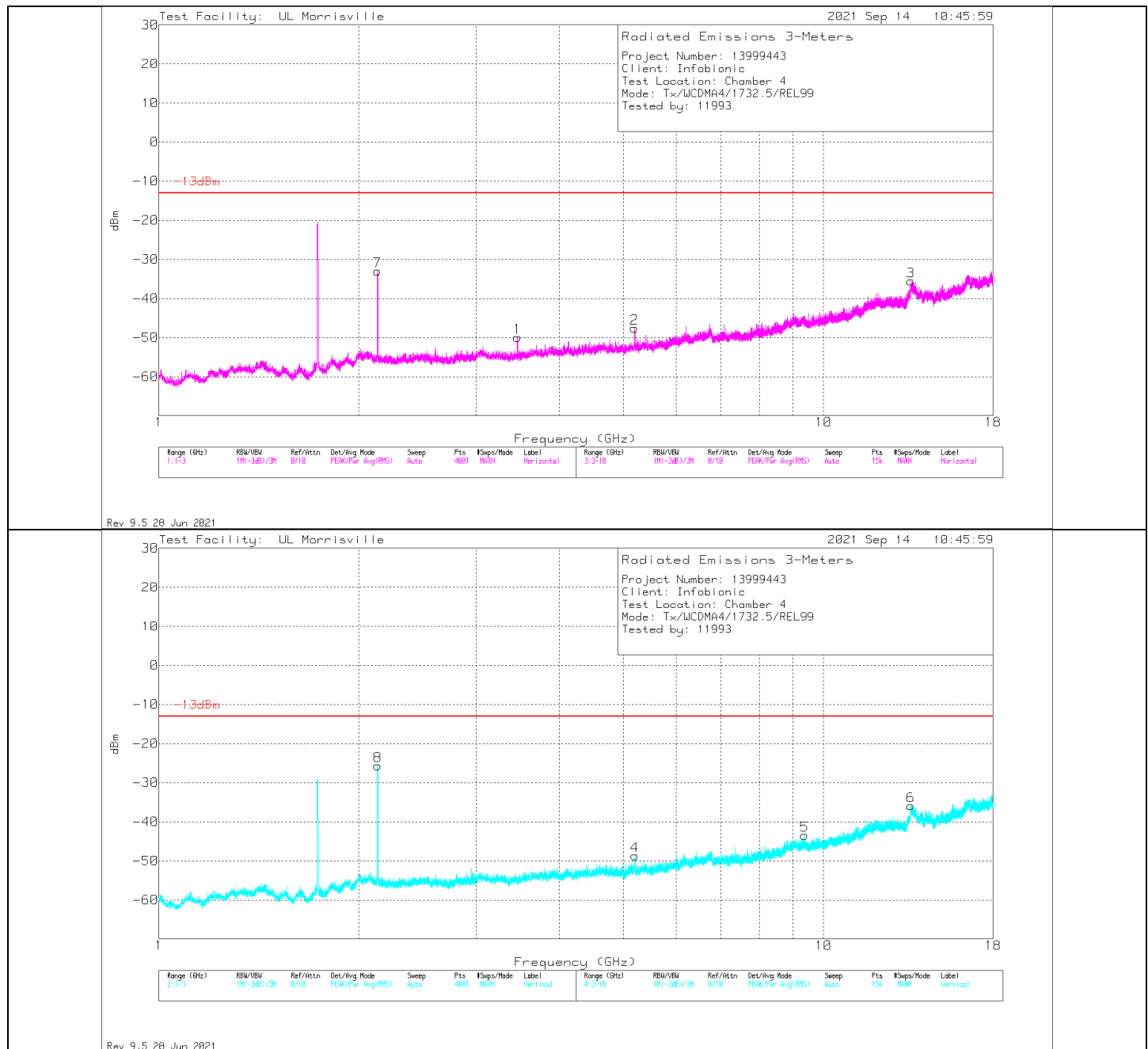
8.1.3. WCDMA BAND 4

Rel 99 Mode



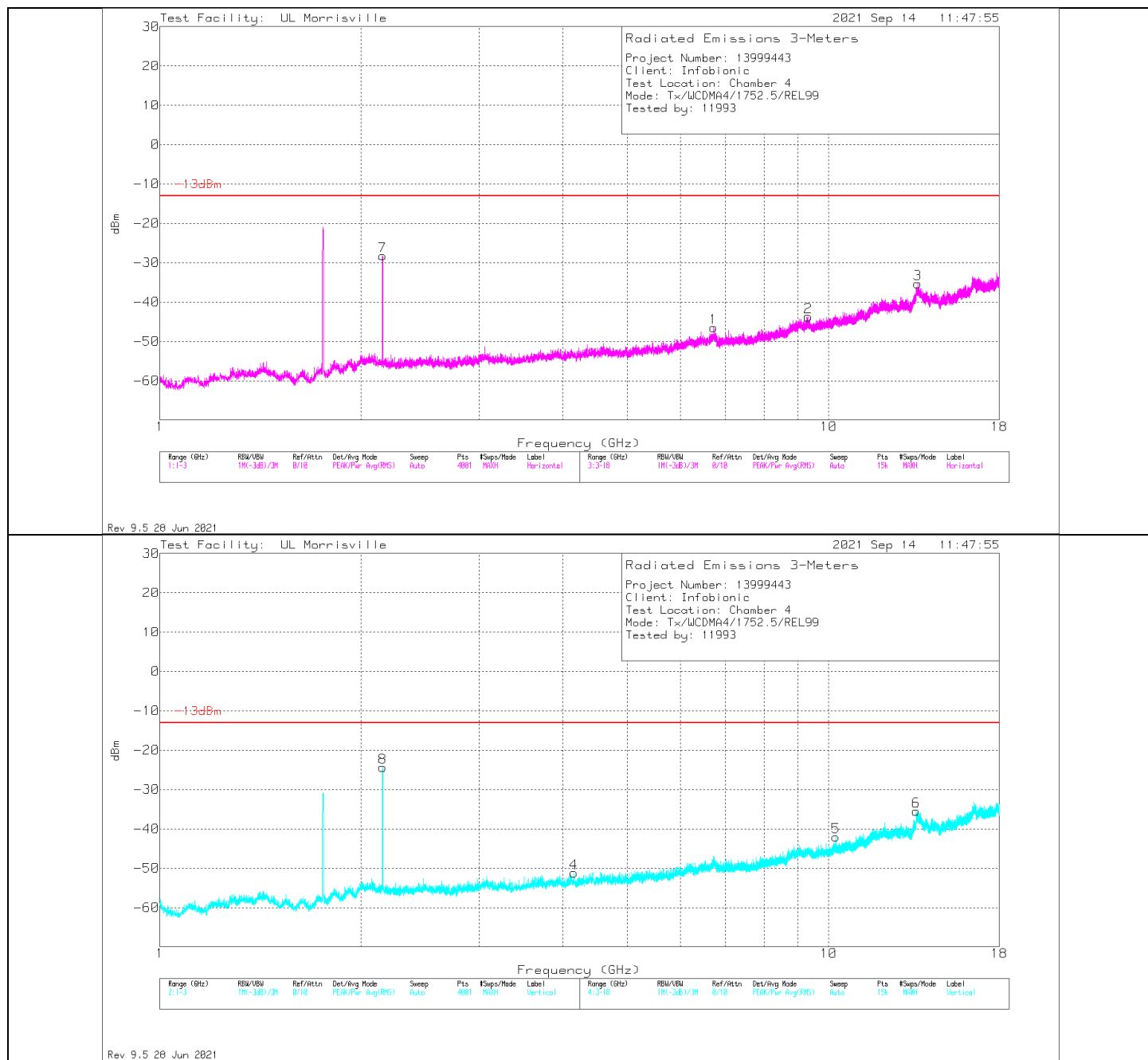
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8	2.113 (DL)	-32.32	Pk	31.4	-36.7	11.8	1.4	-24.42	-	-	0-360	300	V
7	2.1135 (DL)	-37.11	Pk	31.4	-36.7	11.8	1.4	-29.21	-	-	0-360	200	H
1	3.422	-59.29	Pk	32.5	-34.8	11.8	0	-49.79	-13	-36.79	0-360	100	H
4	3.422	-61.04	Pk	32.5	-34.8	11.8	0	-51.54	-13	-38.54	0-360	200	V
5	5.135	-62.61	Pk	34.2	-31.9	11.8	0	-48.51	-13	-35.51	0-360	200	V
2	5.139	-61.09	Pk	34.2	-31.9	11.8	0	-46.99	-13	-33.99	0-360	100	H
3	13.608	-63.43	Pk	38.7	-23	11.8	0	-35.93	-13	-22.93	0-360	200	H
6	13.637	-63.28	Pk	38.7	-22.9	11.8	0	-35.68	-13	-22.68	0-360	300	V

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7	2.13175 (DL)	-40.75	Pk	31.5	-36.7	11.8	1.2	-32.95	-	-	0-360	200	H
8	2.134 (DL)	-33.51	Pk	31.6	-36.7	11.8	1.2	-25.61	-	-	0-360	300	V
1	3.462	-59.53	Pk	32.6	-34.8	11.8	0	-49.93	-13	-36.93	0-360	100	H
2	5.195	-61.87	Pk	34.3	-31.8	11.8	0	-47.57	-13	-34.57	0-360	100	H
4	5.201	-62.9	Pk	34.3	-31.9	11.8	0	-48.7	-13	-35.7	0-360	200	V
5	9.366	-65.74	Pk	36.4	-25.9	11.8	0	-43.44	-13	-30.44	0-360	300	V
6	13.525	-63.88	Pk	38.7	-22.5	11.8	0	-35.88	-13	-22.88	0-360	200	V
3	13.538	-63.59	Pk	38.7	-22.5	11.8	0	-35.59	-13	-22.59	0-360	100	H

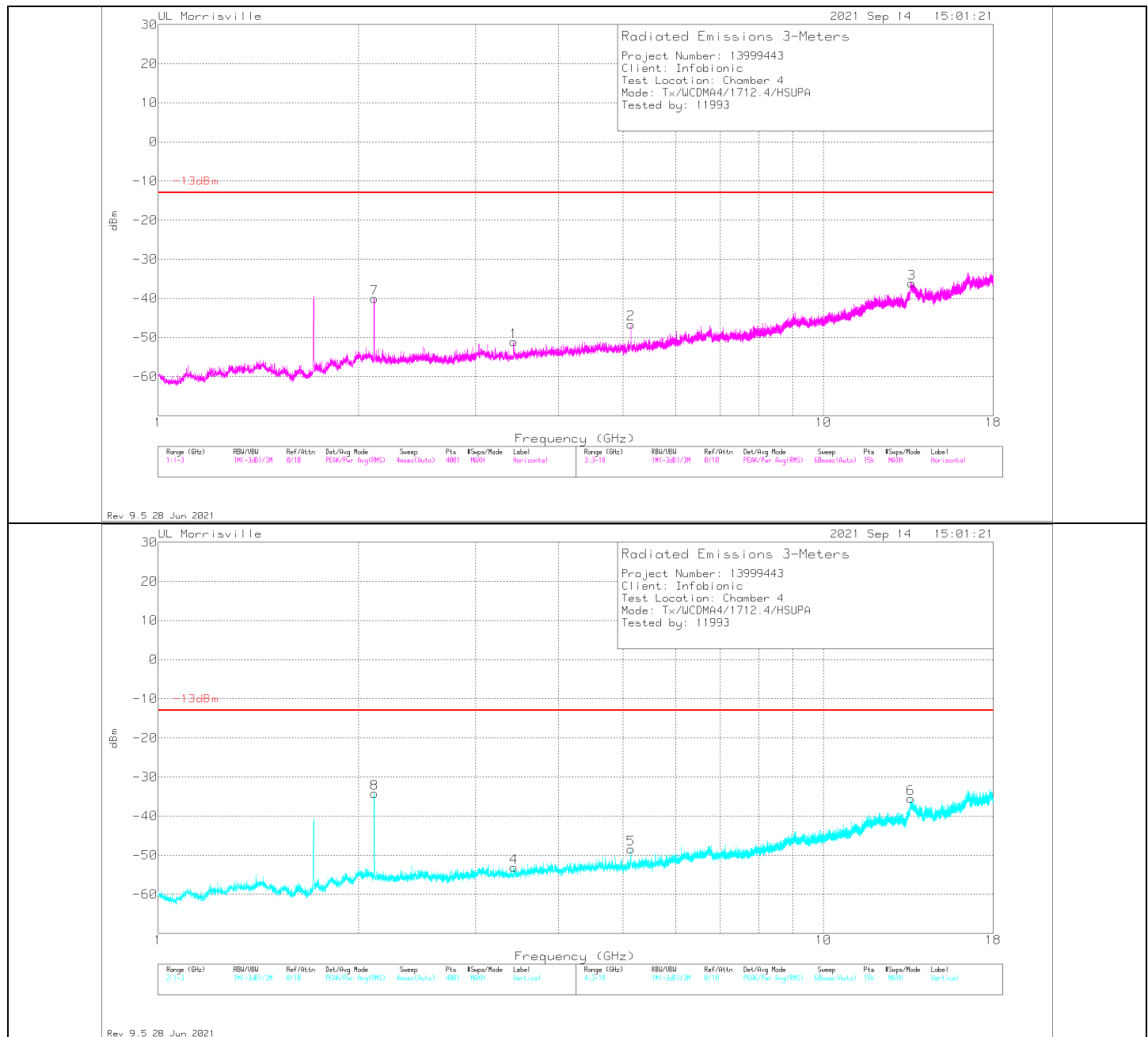
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7	2.1515 (DL)	-36.03	Pk	31.6	-36.7	11.8	1.1	-28.23	-	-	0-360	200	H
8	2.154 (DL)	-32.16	Pk	31.6	-36.7	11.8	1.1	-24.36	-	-	0-360	300	V
4	4.158	-63.79	Pk	33.3	-32.5	11.8	0	-51.19	-13	-38.19	0-360	200	V
1	6.728	-65.25	Pk	35.5	-28.5	11.8	0	-46.45	-13	-33.45	0-360	100	H
2	9.316	-65.91	Pk	36.4	-26	11.8	0	-43.71	-13	-30.71	0-360	100	H
5	10.247	-64.54	Pk	37.2	-26.5	11.8	0	-42.04	-13	-29.04	0-360	300	V
6	13.511	-63.49	Pk	38.7	-22.5	11.8	0	-35.49	-13	-22.49	0-360	300	V
3	13.592	-62.71	Pk	38.7	-23.1	11.8	0	-35.31	-13	-22.31	0-360	100	H

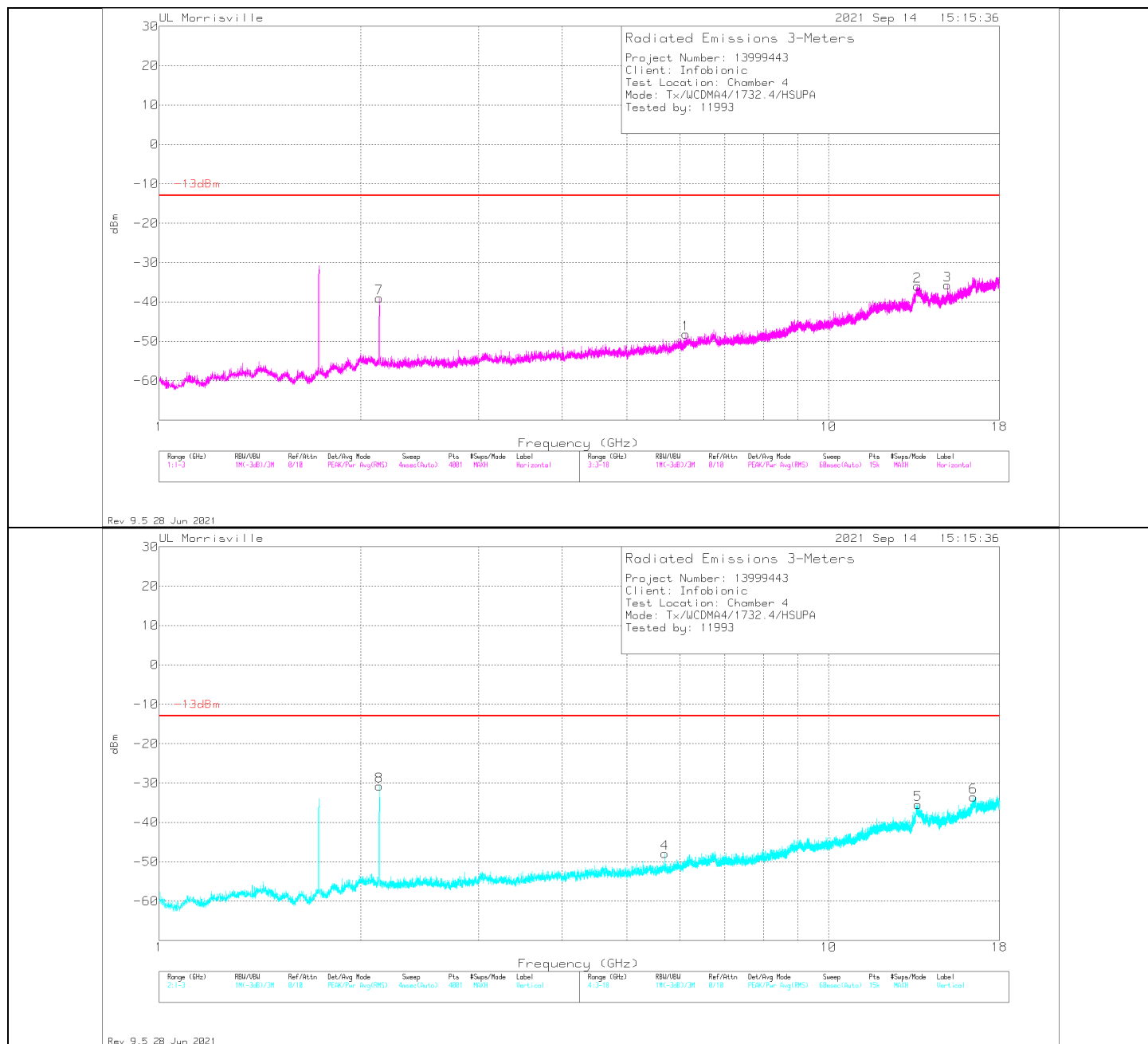
Pk - Peak detector

HSUPA Mode



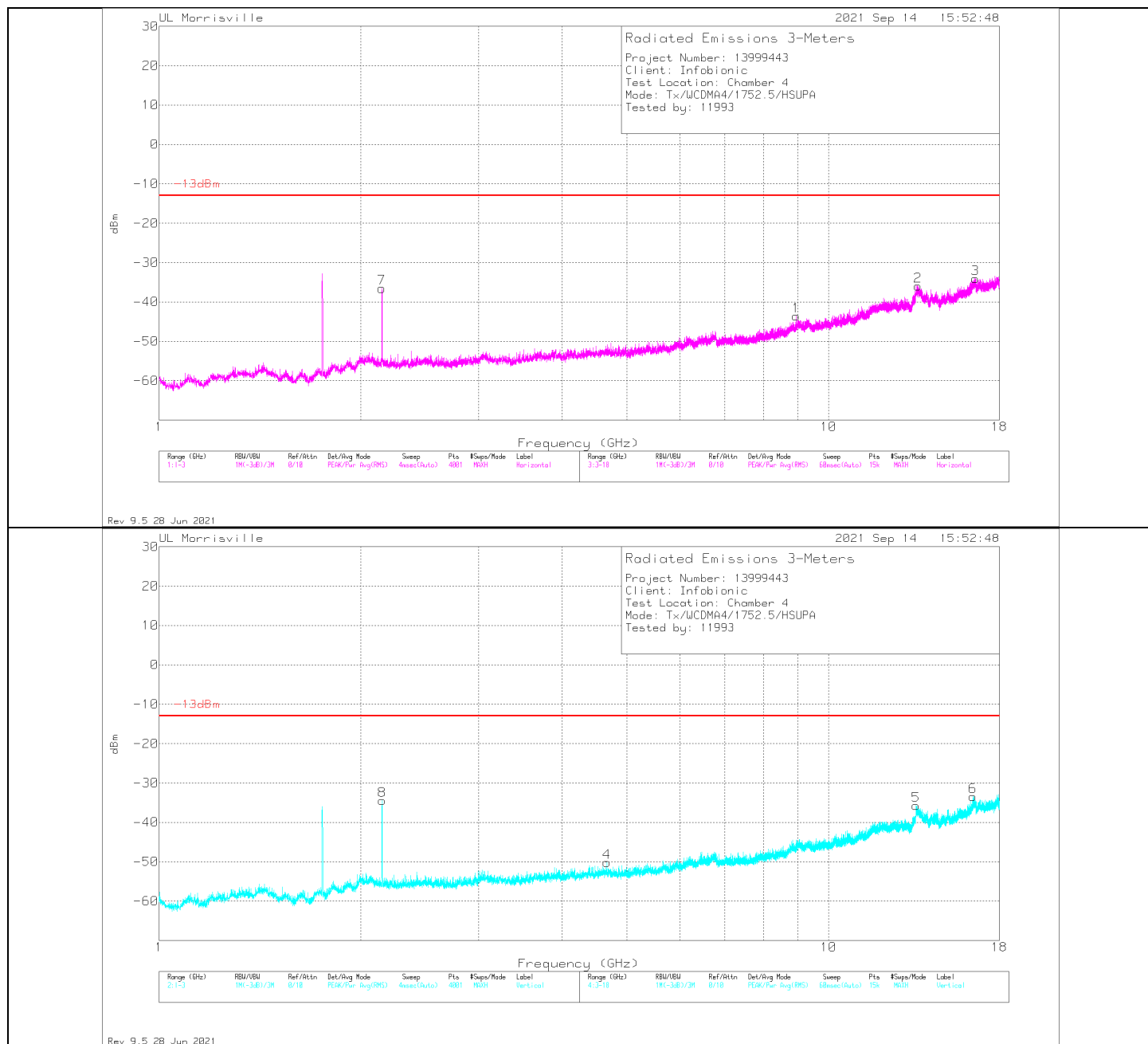
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8	2.1135 (DL)	-42.1	Pk	31.4	-36.7	11.8	1.4	-34.2	-	-	0-360	300	V
7	2.114 (DL)	-47.99	Pk	31.4	-36.7	11.8	1.4	-40.09	-	-	0-360	200	H
1	3.423	-60.67	Pk	32.6	-34.8	11.8	0	-51.07	-13	-38.07	0-360	100	H
4	3.427	-62.73	Pk	32.6	-34.8	11.8	0	-53.13	-13	-40.13	0-360	200	V
2	5.134	-60.67	Pk	34.2	-31.9	11.8	0	-46.57	-13	-33.57	0-360	100	H
5	5.134	-62.53	Pk	34.2	-31.9	11.8	0	-48.43	-13	-35.43	0-360	200	V
6	13.543	-63.39	Pk	38.7	-22.6	11.8	0	-35.49	-13	-22.49	0-360	200	V
3	13.585	-63.5	Pk	38.7	-23.1	11.8	0	-36.1	-13	-23.1	0-360	200	H

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8	2.1315 (DL)	-38.59	Pk	31.5	-36.7	11.8	1.2	-30.79	-	-	0-360	300	V
7	2.132 (DL)	-46.8	Pk	31.5	-36.7	11.8	1.2	-39	-	-	0-360	200	H
4	5.699	-63.96	Pk	34.5	-30.3	11.8	0	-47.96	-13	-34.96	0-360	300	V
1	6.123	-65.02	Pk	35.3	-30.2	11.8	0	-48.12	-13	-35.12	0-360	100	H
2	13.582	-63.38	Pk	38.7	-23.1	11.8	0	-35.98	-13	-22.98	0-360	100	H
5	13.602	-62.83	Pk	38.6	-23	11.8	0	-35.43	-13	-22.43	0-360	300	V
3	15.06	-65.89	Pk	39.6	-21.2	11.8	0	-35.69	-13	-22.69	0-360	100	H
6	16.45	-65.37	Pk	41.2	-21.2	11.8	0	-33.57	-13	-20.57	0-360	300	V

Pk - Peak detector

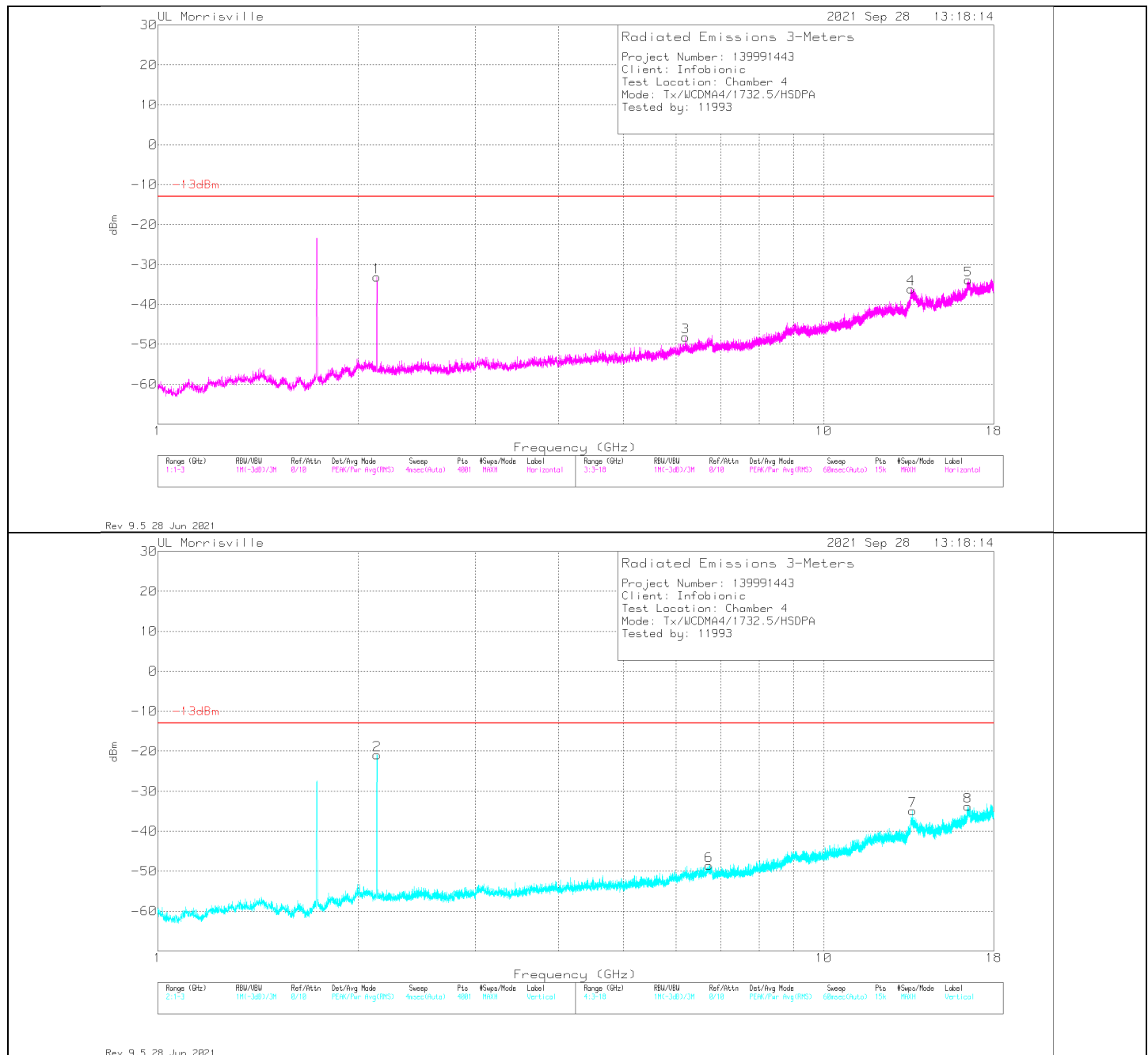


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7	2.152 (DL)	-44.34	Pk	31.6	-36.7	11.8	1.1	-36.54	-	-	0-360	200	H
8	2.1535 (DL)	-42.26	Pk	31.6	-36.7	11.8	1.1	-34.46	-	-	0-360	300	V
4	4.664	-63.97	Pk	34.1	-32.1	11.8	0	-50.17	-13	-37.17	0-360	300	V
1	8.942	-64.72	Pk	35.9	-26.6	11.8	0	-43.62	-13	-30.62	0-360	100	H
5	13.503	-63.87	Pk	38.8	-22.5	11.8	0	-35.77	-13	-22.77	0-360	300	V
2	13.611	-63.47	Pk	38.7	-23	11.8	0	-35.97	-13	-22.97	0-360	100	H
6	16.428	-64.9	Pk	41.1	-21.4	11.8	0	-33.4	-13	-20.4	0-360	200	V
3	16.58	-66.15	Pk	41.5	-21.2	11.8	0	-34.05	-13	-21.05	0-360	100	H

Pk - Peak detector

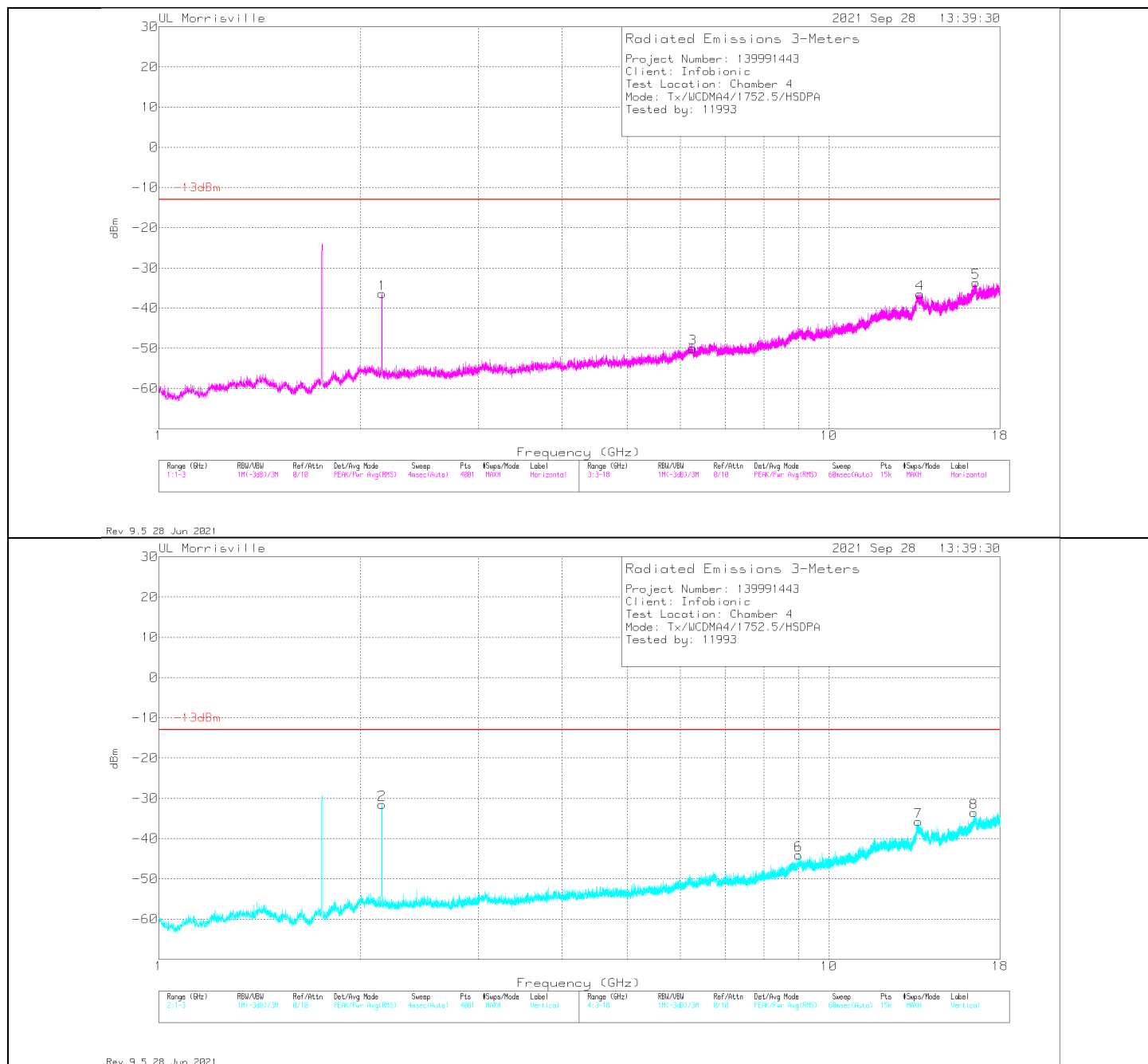
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.1115 (DL)	-34.79	Pk	31.4	-36.7	11.8	1.5	-26.79	-	-	0-360	300	V
1	2.1135 (DL)	-42.44	Pk	31.4	-36.7	11.8	1.4	-34.54	-	-	0-360	200	H
6	5.134	-62.92	Pk	34.2	-31.9	11.8	0	-48.82	-13	-35.82	0-360	200	V
3	6.748	-66.8	Pk	35.5	-28.5	11.8	0	-48	-13	-35	0-360	100	H
4	13.538	-63.79	Pk	38.7	-22.5	11.8	0	-35.79	-13	-22.79	0-360	200	H
7	13.623	-62.77	Pk	38.7	-22.9	11.8	0	-35.17	-13	-22.17	0-360	300	V
8	16.533	-66.11	Pk	41.4	-21.2	11.8	0	-34.11	-13	-21.11	0-360	300	V
5	17.441	-66.28	Pk	41.1	-20.4	11.8	0	-33.78	-13	-20.78	0-360	200	H

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.1315 (DL)	-40.91	Pk	31.5	-36.7	11.8	1.2	-33.11	-	-	0-360	100	H
2	2.134 (DL)	-28.82	Pk	31.6	-36.7	11.8	1.2	-20.92	-	-	0-360	300	V
3	6.202	-66.45	Pk	35.3	-28.8	11.8	0	-48.15	-13	-35.15	0-360	100	H
6	6.722	-67.39	Pk	35.5	-28.5	11.8	0	-48.59	-13	-35.59	0-360	300	V
4	13.53	-64.1	Pk	38.7	-22.5	11.8	0	-36.1	-13	-23.1	0-360	100	H
7	13.587	-62.28	Pk	38.7	-23.1	11.8	0	-34.88	-13	-21.88	0-360	300	V
8	16.461	-65.7	Pk	41.2	-21.1	11.8	0	-33.8	-13	-20.8	0-360	200	V
5	16.488	-65.9	Pk	41.3	-21.1	11.8	0	-33.9	-13	-20.9	0-360	100	H

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.153 (DL)	-44.22	Pk	31.6	-36.7	11.8	1.1	-36.42	-	-	0-360	200	H
2	2.153 (DL)	-39.29	Pk	31.6	-36.7	11.8	1.1	-31.49	-	-	0-360	300	V
3	6.261	-67.8	Pk	35.3	-29.3	11.8	0	-50	-13	-37	0-360	100	H
6	9.006	-65.89	Pk	35.9	-25.9	11.8	0	-44.09	-13	-31.09	0-360	300	V
7	13.599	-63.08	Pk	38.6	-23.1	11.8	0	-35.78	-13	-22.78	0-360	300	V
4	13.675	-64.26	Pk	38.6	-22.6	11.8	0	-36.46	-13	-23.46	0-360	100	H
8	16.454	-65.33	Pk	41.2	-21.2	11.8	0	-33.53	-13	-20.53	0-360	300	V
5	16.565	-65.74	Pk	41.5	-21.2	11.8	0	-33.64	-13	-20.64	0-360	200	H

Pk - Peak detector

9. SETUP PHOTOS

Refer to exhibit R13999443-EP1 for setup photos.

END OF REPORT