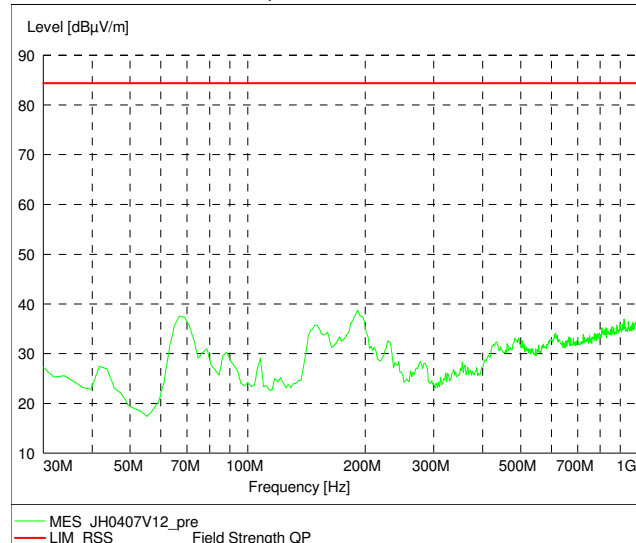
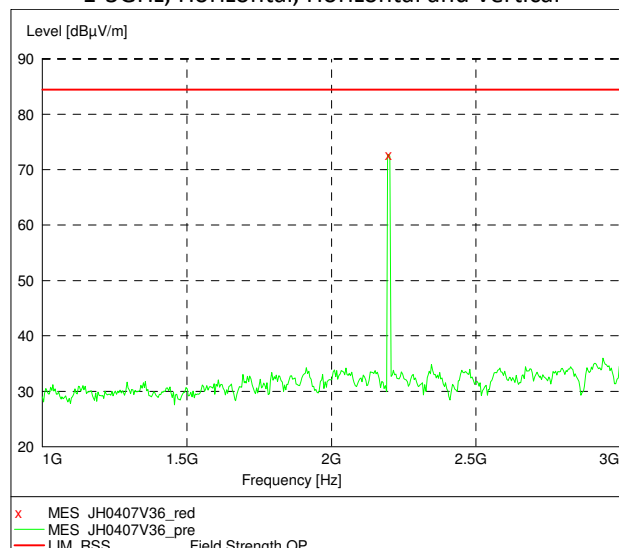


Configuration	Channel Position	Carrier	Carrier Bandwidth	Modulation
LTE-MIMO-1C-UE	B	1 Carrier	5MHz	16QAM
LTE-MIMO-1C-UE	T	1 Carrier	5MHz	16QAM

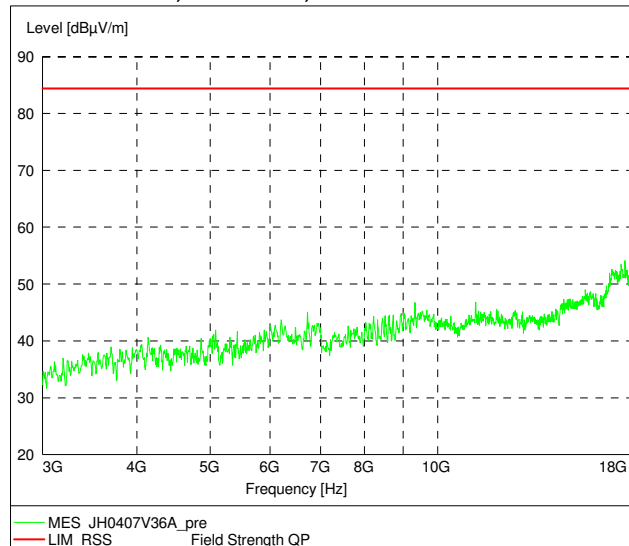
30-1000MHz, Horizontal and Vertical



1-3GHz, Horizontal, Horizontal and Vertical



3-18GHz, Horizontal, Horizontal and Vertical

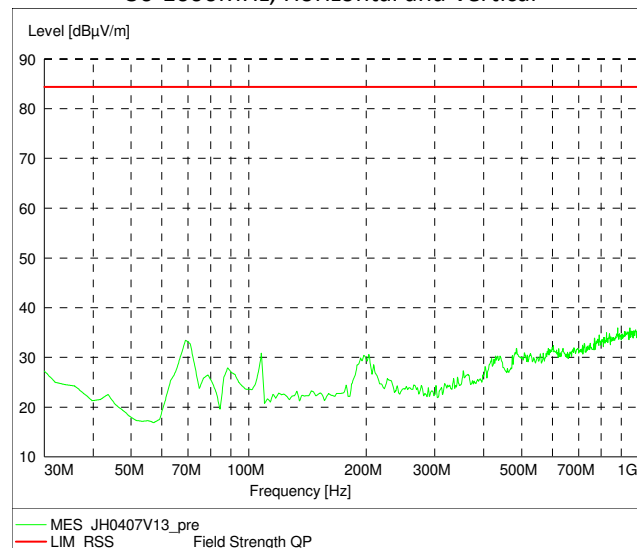


18-23GHz, Horizontal, Horizontal and Vertical

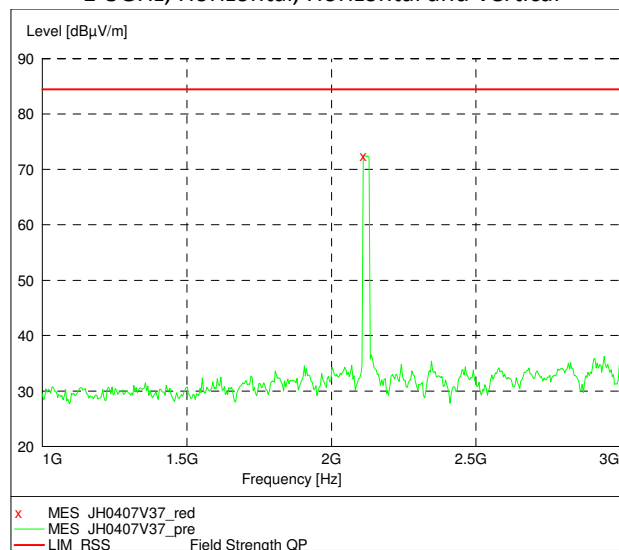


Configuration	Channel Position	Carrier	Carrier Bandwidth	Modulation
LTE-MIMO-1C-UE	B	1 Carrier	20MHz	16QAM
LTE-MIMO-1C-UE	T	1 Carrier	20MHz	16QAM

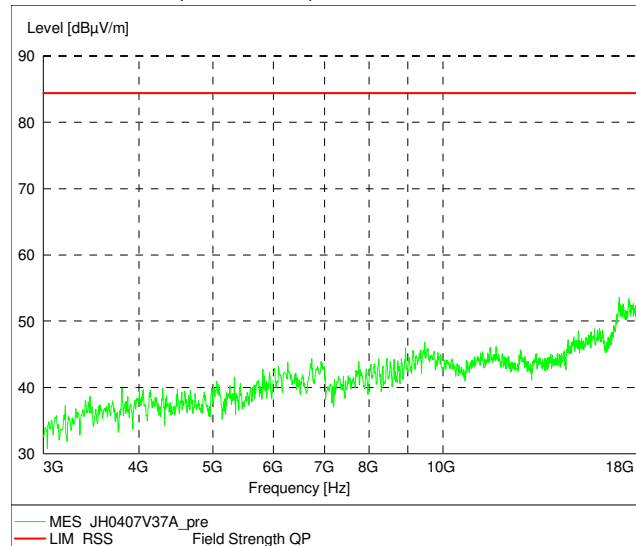
30-1000MHz, Horizontal and Vertical



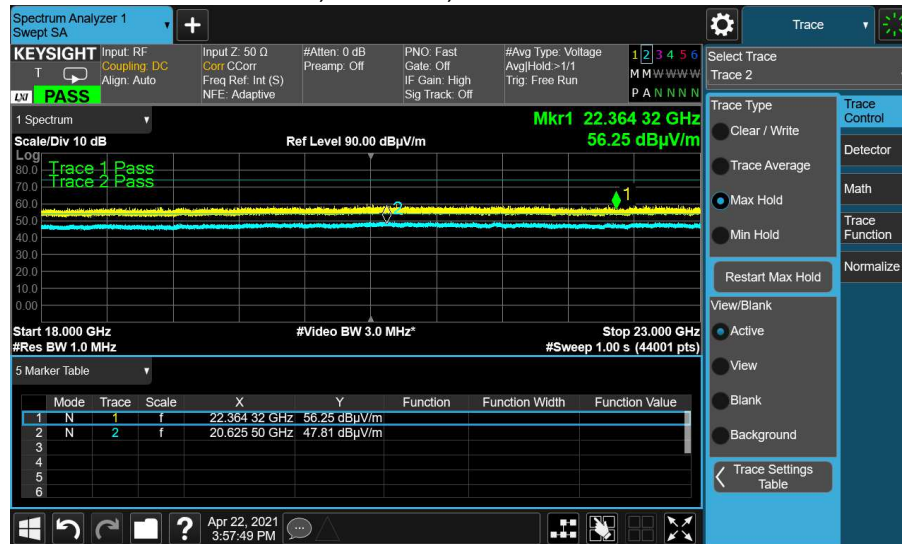
1-3GHz, Horizontal, Horizontal and Vertical



3-18GHz, Horizontal, Horizontal and Vertical

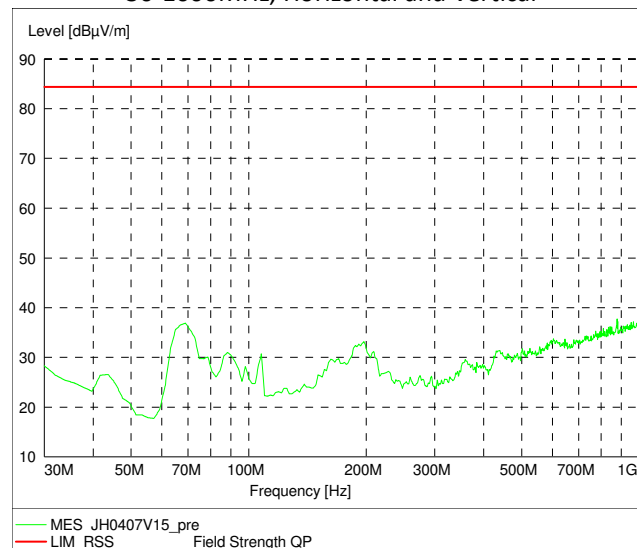


18-23GHz, Horizontal, Horizontal and Vertical

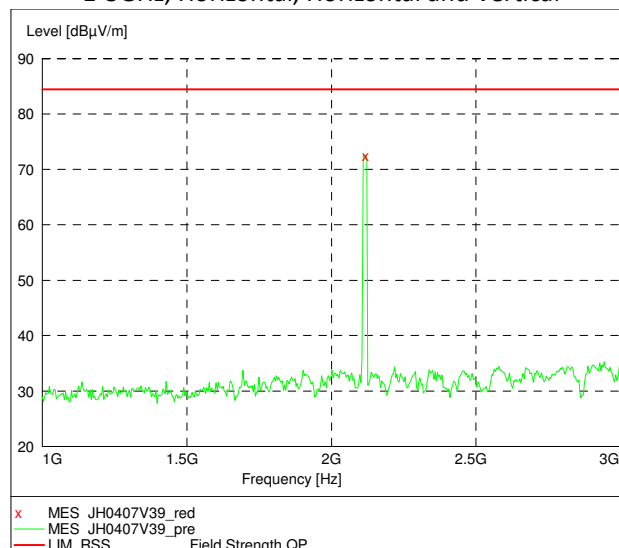


Configuration	Channel Position	Carrier	Carrier Bandwidth	Modulation
LTE-MIMO-2C-UE	B	1 Carrier	5MHz	16QAM
LTE-MIMO-2C-UE	T	1 Carrier	5MHz	16QAM

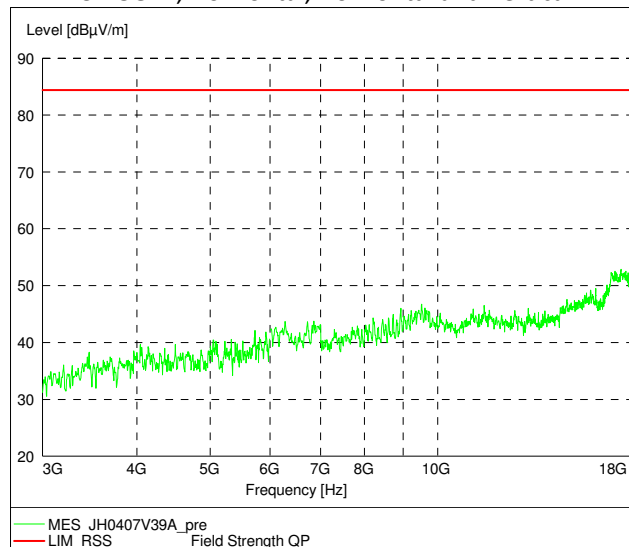
30-1000MHz, Horizontal and Vertical



1-3GHz, Horizontal, Horizontal and Vertical



3-18GHz, Horizontal, Horizontal and Vertical

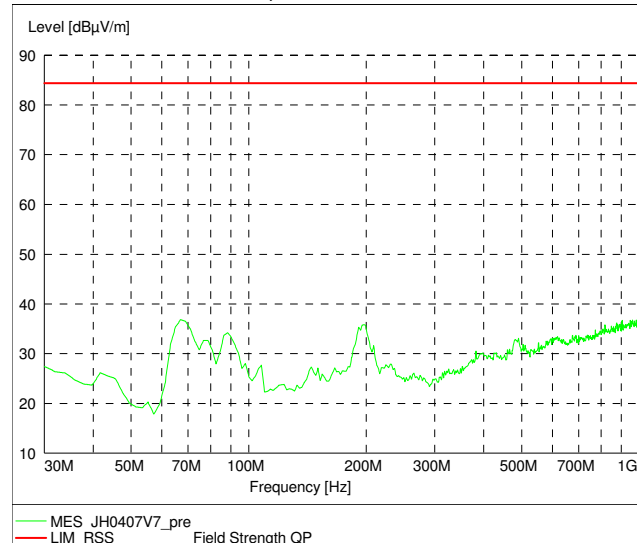


18-23GHz, Horizontal, Horizontal and Vertical

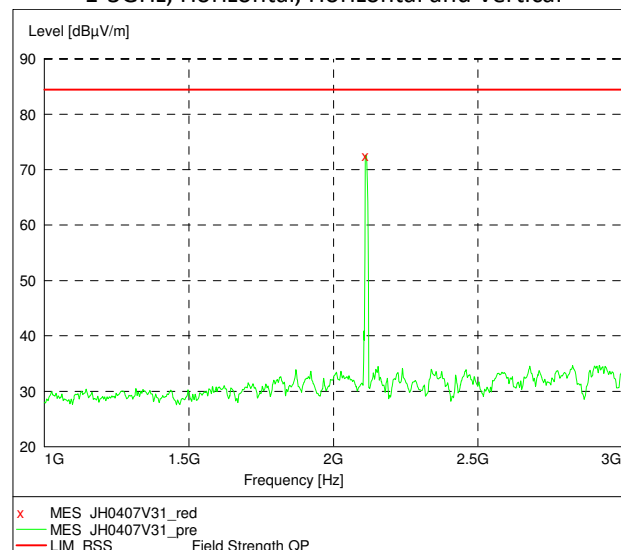


Configuration	Channel Position	Carrier	Carrier Bandwidth	Modulation
WCDMA-MIMO-1C-UE	B	1 Carrier	5MHz	16QAM
WCDMA-MIMO-1C-UE	T	1 Carrier	5MHz	16QAM

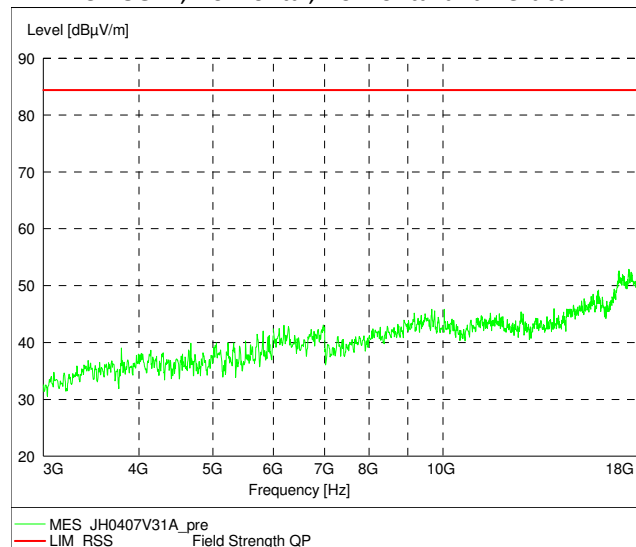
30-1000MHz, Horizontal and Vertical



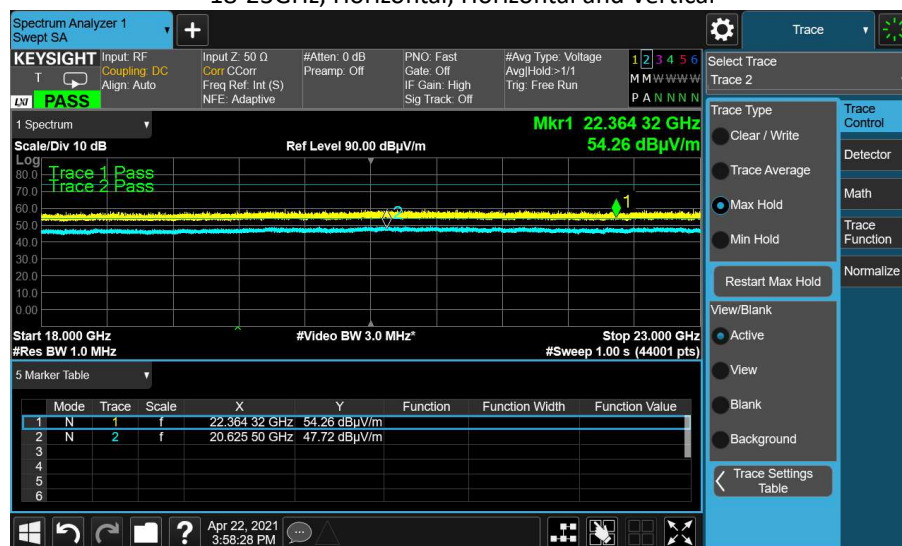
1-3GHz, Horizontal, Horizontal and Vertical



3-18GHz, Horizontal, Horizontal and Vertical

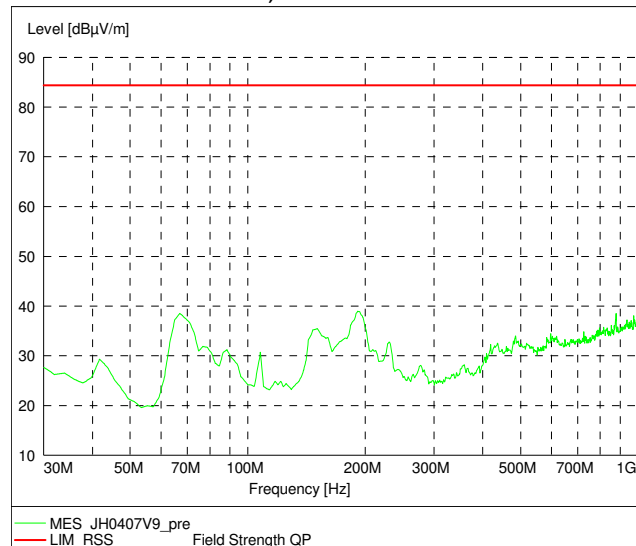


18-23GHz, Horizontal, Horizontal and Vertical

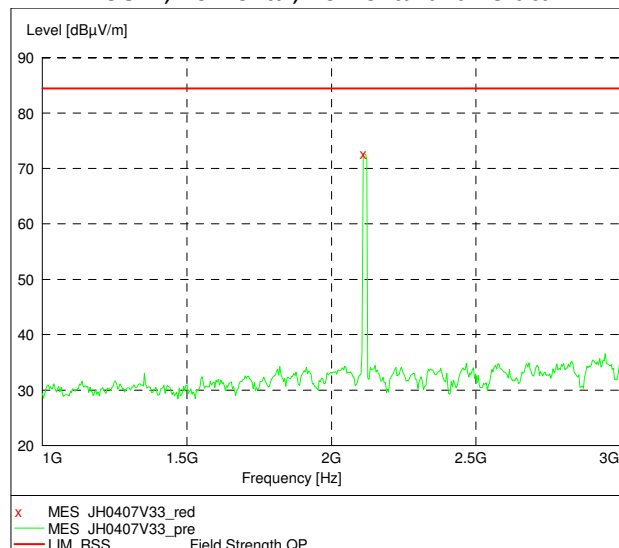


Configuration	Channel Position	Carrier	Carrier Bandwidth	Modulation
WCDMA-MIMO-2C-UE	B	1 Carrier	5MHz	16QAM
WCDMA-MIMO-2C-UE	T	1 Carrier	5MHz	16QAM

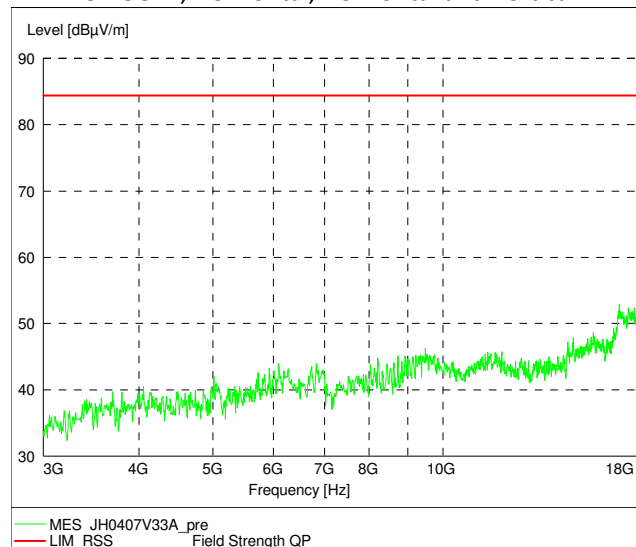
30-1000MHz, Horizontal and Vertical



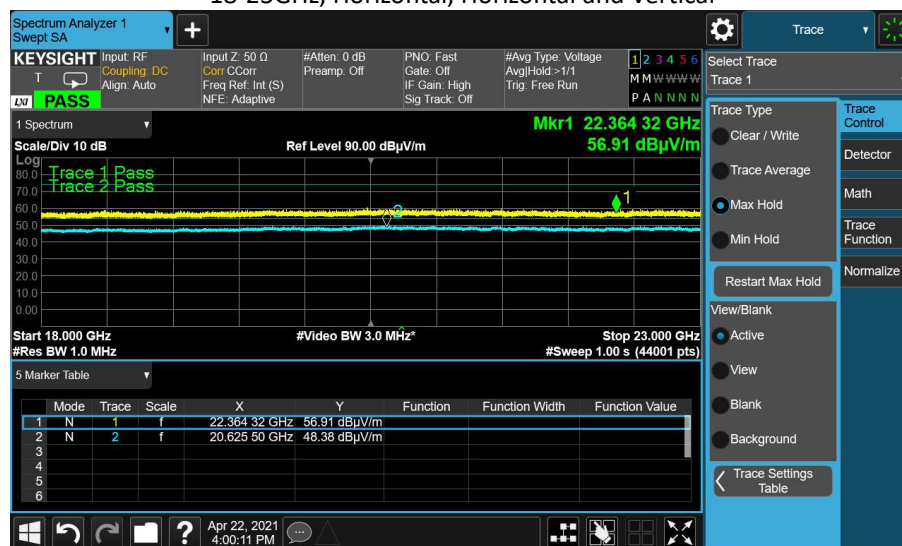
1-3GHz, Horizontal, Horizontal and Vertical



3-18GHz, Horizontal, Horizontal and Vertical

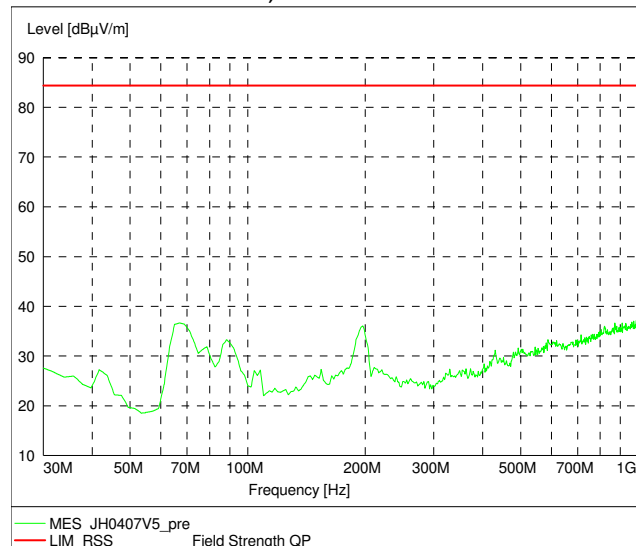


18-23GHz, Horizontal, Horizontal and Vertical

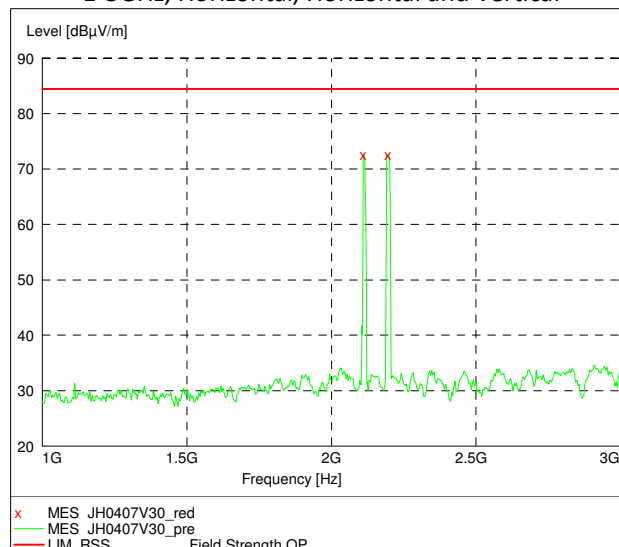


Configuration	Channel Position	Carrier	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	NR & LTE Modulation
W+L+NR-MIMO-MC-1-UE	B	6 Carrier	5	5	16QAM
W+L+NR-MIMO-MC-1-UE	T	6 Carrier	5	5	16QAM

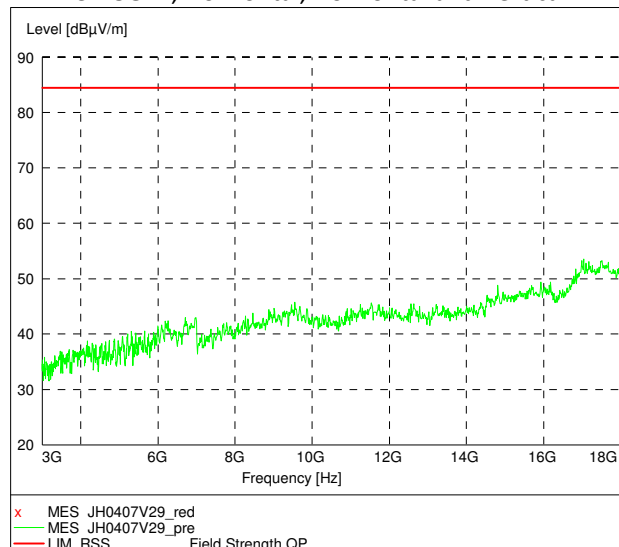
30-1000MHz, Horizontal and Vertical



1-3GHz, Horizontal, Horizontal and Vertical



3-18GHz, Horizontal, Horizontal and Vertical



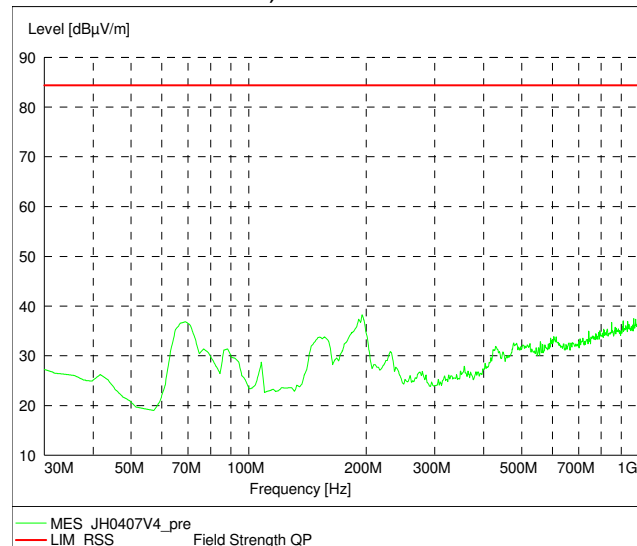
18-23GHz, Horizontal, Horizontal and Vertical



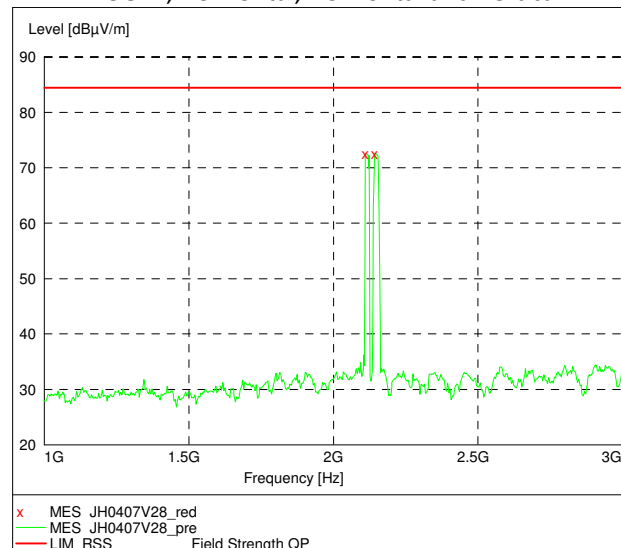
TEST REPORT

Configuration	Channel Position	Carrier	NR Carrier Bandwidth (MHz)	GB Carrier Bandwidth (MHz)	NR Modulation
NR+W+GB-MIMO-MC-1-UE	M	6 Carrier	5	10	16QAM

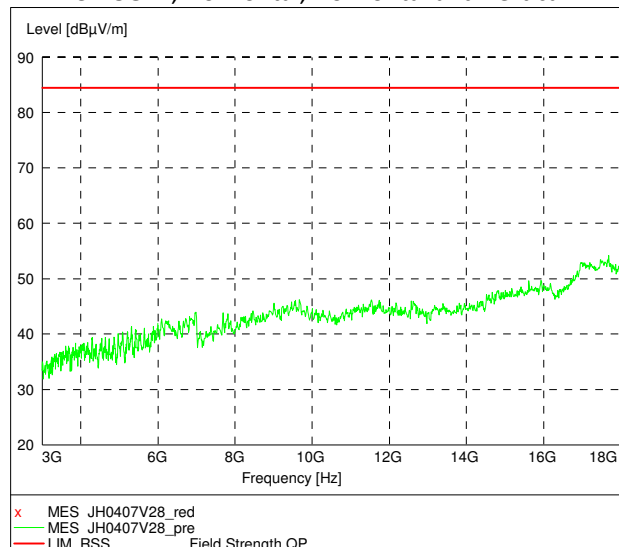
30-1000MHz, Horizontal and Vertical



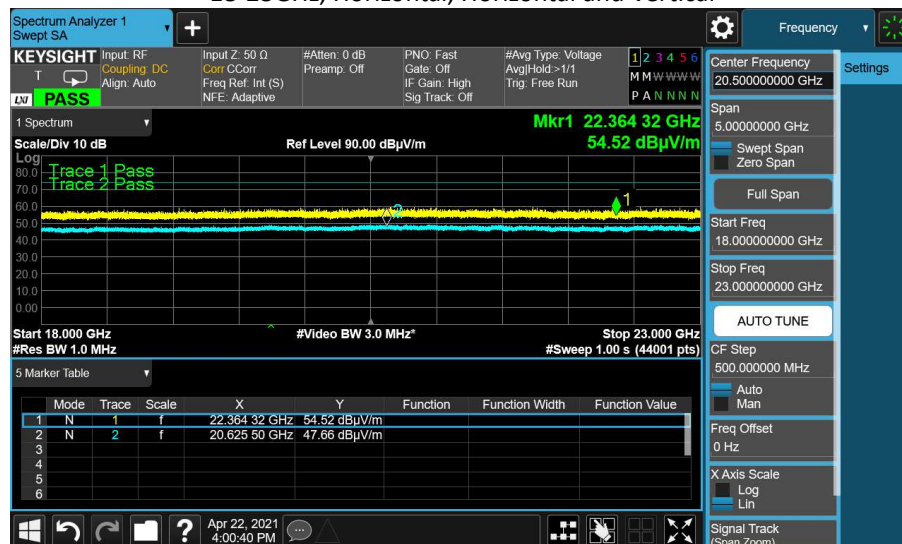
1-3GHz, Horizontal, Horizontal and Vertical



3-18GHz, Horizontal, Horizontal and Vertical

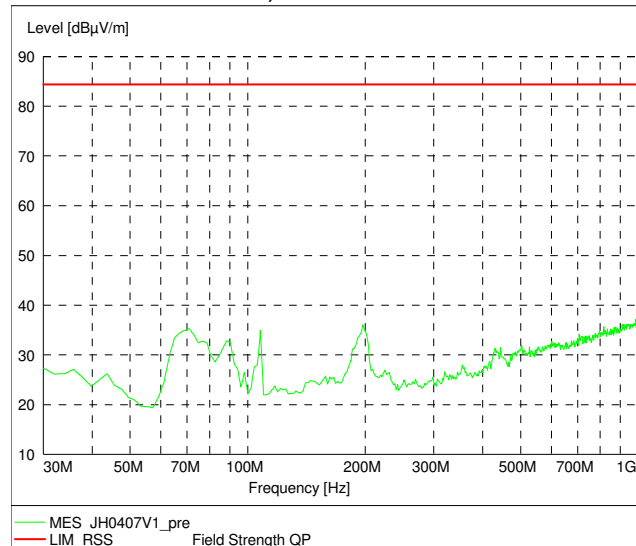


18-23GHz, Horizontal, Horizontal and Vertical

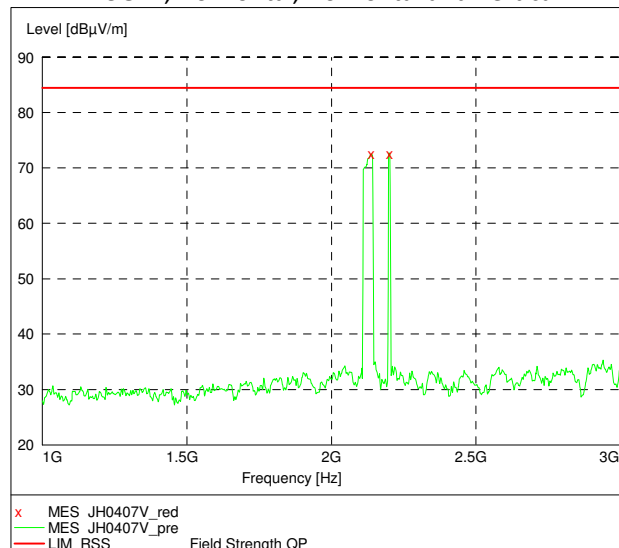


Configuration	Channel Position	Carrier	GB Carrier Bandwidth (MHz)	SA Carrier Bandwidth (MHz)	NR & LTE Modulation
GB+NR+L+SA-MIMO-MC-1-UE	M	6 Carrier	10	0.2	16QAM

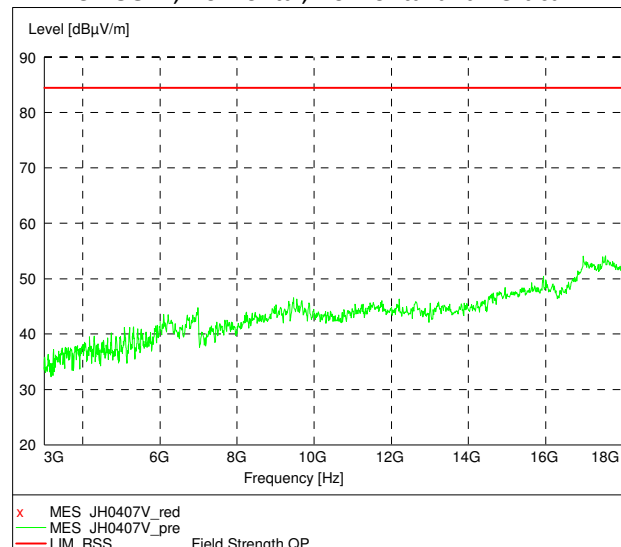
30-1000MHz, Horizontal and Vertical



1-3GHz, Horizontal, Horizontal and Vertical



3-18GHz, Horizontal, Horizontal and Vertical

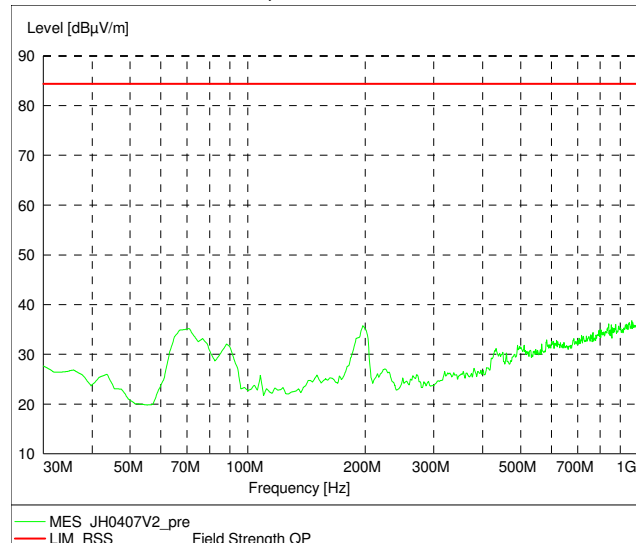


18-23GHz, Horizontal, Horizontal and Vertical

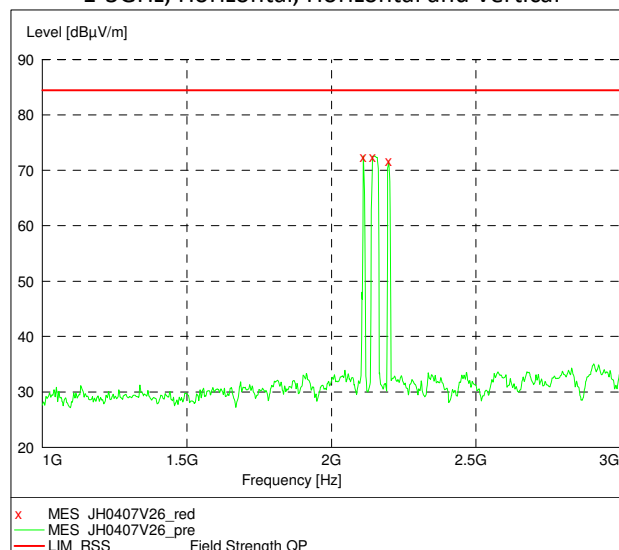


Configuration	Channel Position	Carrier	SA Channel Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	LTE Modulation
SA+W+L-MIMO-MC-1-UE	M	6 Carrier	0.2	5	16QAM

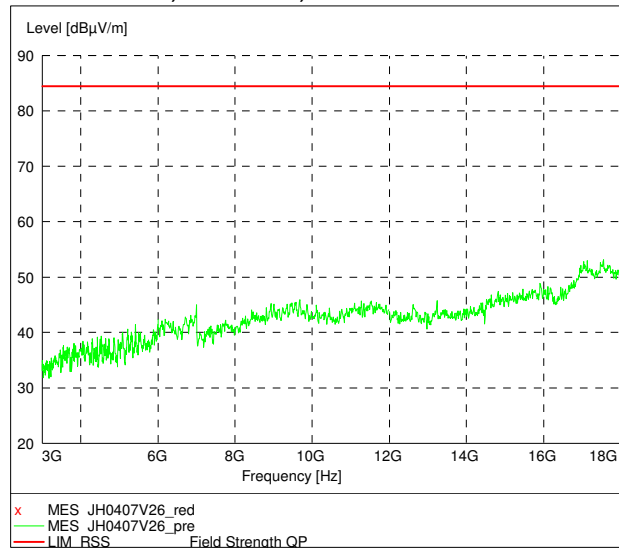
30-1000MHz, Horizontal and Vertical



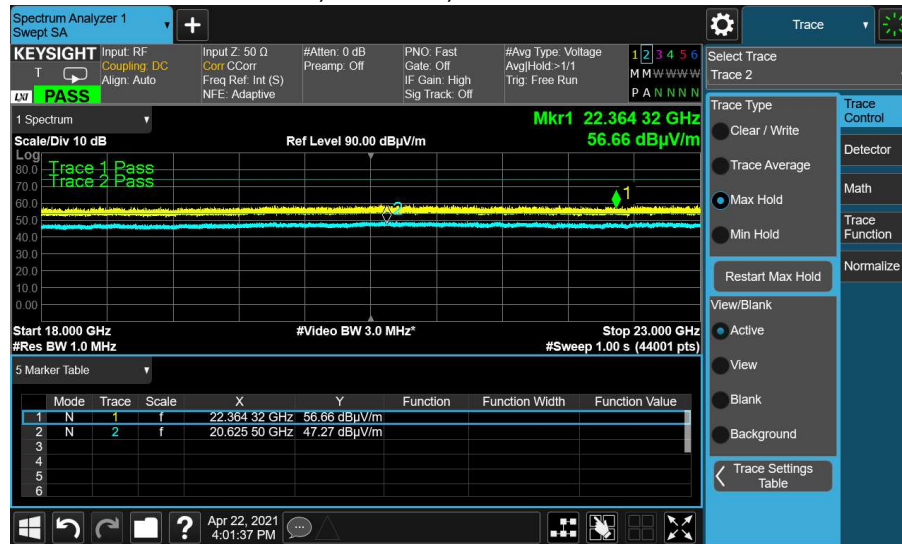
1-3GHz, Horizontal, Horizontal and Vertical



3-18GHz, Horizontal, Horizontal and Vertical

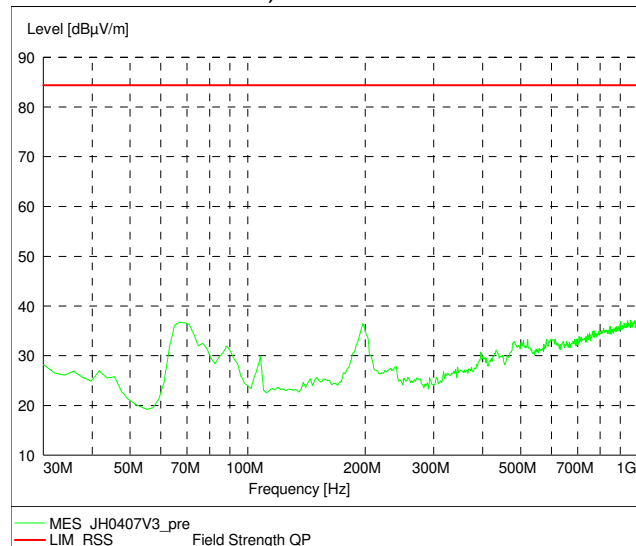


18-23GHz, Horizontal, Horizontal and Vertical

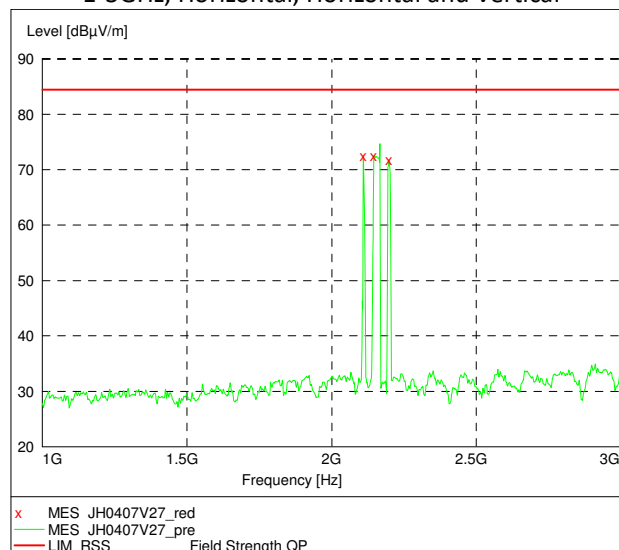


Configuration	Channel Position	Carrier	SA Channel Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	LTE Modulation
SA+L-MIMO-MC-1-UE	M	6 Carrier	0.2	5	16QAM

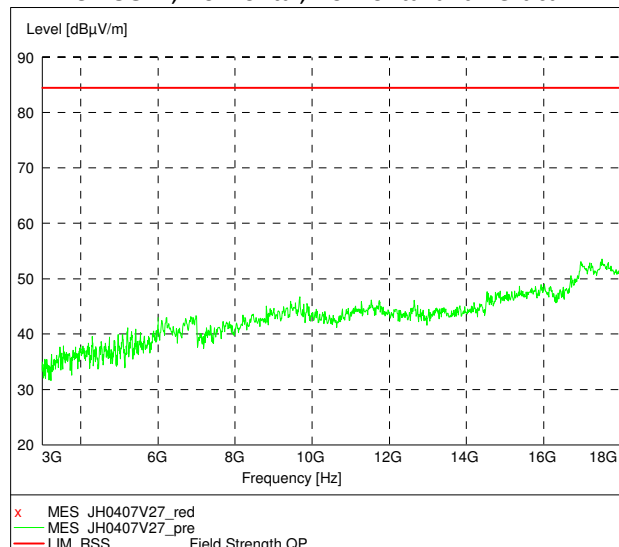
30-1000MHz, Horizontal and Vertical



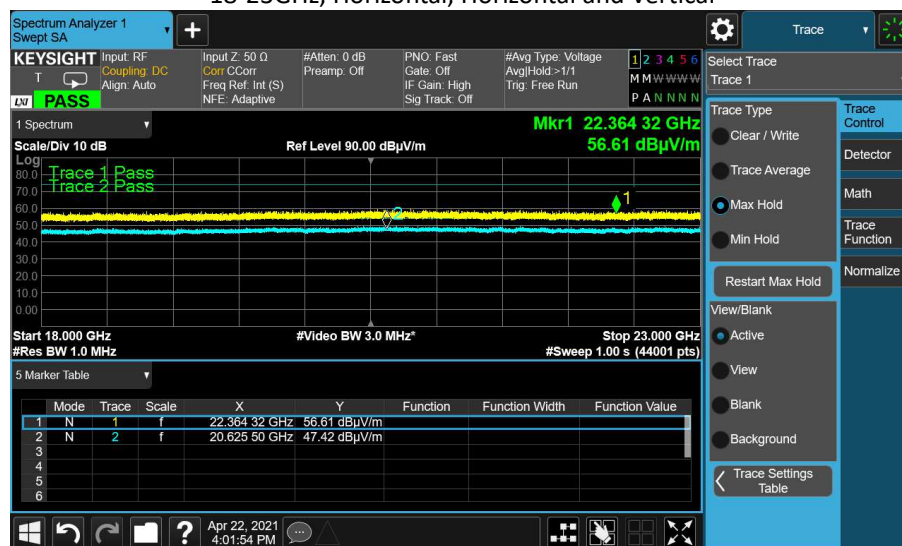
1-3GHz, Horizontal, Horizontal and Vertical



3-18GHz, Horizontal, Horizontal and Vertical



18-23GHz, Horizontal, Horizontal and Vertical



TEST REPORT

8 Frequency Stability

Test result: Tested

8.1 Limit

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

8.2 Measurement Procedure

Temperature Variation

The EUT was tested over the temperature range -30°C to +50°C in 10°C steps with -48 VDC Power Supply. At each temperature step, the Base Station was configured to transmit at maximum power on the middle channel of the operating band.

Voltage Variation

The EUT was tested at the supplied voltages varied from 85 to 115 percent of the nominal values of -48 VDC. At +20°C, the Base Station was configured to transmit at maximum power on the middle channel of the frequency block.

8.3 Measurement result

Frequency Error – Temperature Variation

Configuration NR-MIMO-1C, Channel Bandwidth: 20MHz

Antenna Port	Modulation	Temperature (°C)	Frequency Stability (Hz)		
			Channel Position B	Channel Position M	Channel Position T
B	16QAM	-30	2.29	3.20	2.77
		-20	2.06	2.63	-2.03
		-10	2.72	3.46	-1.66
		0	4.45	2.12	2.02
		10	-2.57	4.85	-2.44
		20	2.92	3.58	-4.58
		30	1.64	1.75	1.13
		40	-2.03	2.58	-1.47
		50	3.69	-3.78	2.75

Frequency Error – Voltage Variation

Configuration NR-MIMO-1C, Channel Bandwidth: 20MHz

Antenna Port	Modulation	Temperature (°C)	Supply Voltage (V)	Frequency Stability (Hz)		
				Channel Position B	Channel Position M	Channel Position T
B	16QAM	20	-40.8	-1.00	-1.03	3.21
			-48.0	2.92	3.58	-4.58
			-55.2	3.42	-3.18	2.27

TEST REPORT

Frequency Error – Temperature Variation

Configuration NB-IoT-SA-1C, Channel Bandwidth: 0.2MHz

Antenna Port	Modulation	Temperature (°C)	Frequency Stability (Hz)		
			Channel Position B	Channel Position M	Channel Position T
B	QPSK	-30	0.64	0.23	1.33
		-20	-0.31	0.73	1.27
		-10	0.62	1.33	0.58
		0	-0.16	-0.69	0.64
		10	2.09	0.51	-0.41
		20	-1.32	0.57	-0.34
		30	-0.36	0.77	0.26
		40	0.28	-0.96	0.92
		50	-0.32	0.27	0.95

Frequency Error – Voltage Variation

Configuration NB-IoT-SA-1C, Channel Bandwidth: 0.2MHz

Antenna Port	Modulation	Temperature (°C)	Supply Voltage (V)	Frequency Stability (Hz)		
				Channel Position B	Channel Position M	Channel Position T
B	QPSK	20	-40.8	1.72	-0.44	0.22
			-48.0	-1.32	0.57	-0.34
			-55.2	-0.32	0.54	-0.26

TEST REPORT

Frequency Error – Temperature Variation

Configuration NB-IoT-IB-1C, Channel Bandwidth: 20MHz

Antenna Port	Modulation	Temperature (°C)	Frequency Stability (Hz)		
			Channel Position B	Channel Position M	Channel Position T
B	QPSK	-30	1.01	1.61	1.94
		-20	1.48	1.01	2.77
		-10	0.28	2.14	-0.71
		0	2.17	1.03	1.40
		10	1.42	1.44	2.29
		20	2.08	1.23	2.06
		30	-0.26	-0.64	-0.21
		40	-0.21	0.91	-0.29
		50	1.21	1.26	2.22

Frequency Error – Voltage Variation

Configuration NB-IoT-IB-1C, Channel Bandwidth: 20MHz

Antenna Port	Modulation	Temperature (°C)	Supply Voltage (V)	Frequency Stability (Hz)		
				Channel Position B	Channel Position M	Channel Position T
B	QPSK	20	-40.8	1.98	1.60	1.66
			-48.0	2.08	1.23	2.06
			-55.2	-5.90	1.94	1.83

TEST REPORT

Frequency Error – Temperature Variation

Configuration NB-IoT-GB-1C, Channel Bandwidth: 20MHz

Antenna Port	Modulation	Temperature (°C)	Frequency Stability (Hz)		
			Channel Position B	Channel Position M	Channel Position T
B	QPSK	-30	-1.33	-0.45	0.11
		-20	-0.29	0.48	0.12
		-10	1.88	1.06	1.87
		0	-0.57	0.31	0.15
		10	-1.41	-0.50	-0.77
		20	0.61	1.23	0.46
		30	-0.50	0.75	-0.60
		40	1.12	1.07	1.58
		50	0.44	0.43	0.32

Frequency Error – Voltage Variation

Configuration NB-IoT-GB-1C, Channel Bandwidth: 20MHz

Antenna Port	Modulation	Temperature (°C)	Supply Voltage (V)	Frequency Stability (Hz)		
				Channel Position B	Channel Position M	Channel Position T
B	16QAM	20	-40.8	-0.16	-0.51	1.35
			-48.0	0.61	1.23	0.46
			-55.2	-0.78	0.81	-0.74

TEST REPORT

Frequency Error – Temperature Variation

Configuration LTE-MIMO-1C, Channel Bandwidth: 20MHz

Antenna Port	Modulation	Temperature (°C)	Frequency Stability (Hz)		
			Channel Position B	Channel Position M	Channel Position T
B	16QAM	-30	0.28	0.66	-0.56
		-20	0.88	0.73	-0.96
		-10	0.44	-0.89	-0.80
		0	0.78	0.84	0.44
		10	0.12	0.11	-1.05
		20	0.99	-0.75	-0.71
		30	-0.48	0.23	1.19
		40	-0.58	-0.91	0.14
		50	-1.19	-0.91	0.98

Frequency Error – Voltage Variation

Configuration LTE-MIMO-1C, Channel Bandwidth: 20MHz

Antenna Port	Modulation	Temperature (°C)	Supply Voltage (V)	Frequency Stability (Hz)		
				Channel Position B	Channel Position M	Channel Position T
B	16QAM	20	-40.8	1.11	-0.23	-0.32
			-48.0	0.99	-0.75	-3.32
			-55.2	-0.17	-3.32	0.36

TEST REPORT

Frequency Error – Temperature Variation

Configuration WCDMA-MIMO-1C, Channel Bandwidth: 5MHz

Antenna Port	Modulation	Temperature (°C)	Frequency Stability (Hz)		
			Channel Position B	Channel Position M	Channel Position T
B	16QAM	-30	21.68	38.82	44.58
		-20	-41.73	-42.39	39.37
		-10	49.80	-42.55	-37.90
		0	38.44	-37.68	-41.48
		10	-47.77	41.98	-49.95
		20	41.90	32.96	27.28
		30	-36.08	-33.04	-40.52
		40	43.20	43.94	30.45
		50	-38.49	-35.29	34.61

Frequency Error – Voltage Variation

Configuration WCDMA-MIMO-1C, Channel Bandwidth: 5MHz

Antenna Port	Modulation	Temperature (°C)	Supply Voltage (V)	Frequency Stability (Hz)		
				Channel Position B	Channel Position M	Channel Position T
B	16QAM	20	-40.8	-37.21	38.91	38.95
			-48.0	41.90	32.96	27.28
			-55.2	-45.72	43.70	34.11

***** END *****