

LTE Band 66

LTE Band 66 20MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788371671									
	Date: 2018-03-30									
	Test Engineer: 47989									
	Configuration: EUT / AC Adapter / Earphone, X-Position									
	Location: Chamber 3									
	Mode: LTE_QPSK Band 66 Harmonics, 20MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1720MHz									
	3440.00	-3.5	V	3.0	41.0	1.0	-43.5	-13.0	-30.5	
	5160.00	-11.9	V	3.0	40.1	1.0	-51.0	-13.0	-38.0	
	6880.00	-3.8	V	3.0	40.0	1.0	-42.8	-13.0	-29.8	
	8600.00	-1.1	V	3.0	39.8	1.0	-39.9	-13.0	-26.9	
	3440.00	-6.3	H	3.0	41.0	1.0	-46.4	-13.0	-33.4	
	5160.00	-11.2	H	3.0	40.1	1.0	-50.3	-13.0	-37.3	
	6880.00	-8.8	H	3.0	40.0	1.0	-47.8	-13.0	-34.8	
	8600.00	-2.8	H	3.0	39.8	1.0	-41.6	-13.0	-28.6	
	Mid Ch, 1745MHz									
	3490.00	-6.4	V	3.0	41.0	1.0	-46.4	-13.0	-33.4	
	5235.00	-10.6	V	3.0	40.1	1.0	-49.7	-13.0	-36.7	
	6980.00	-1.5	V	3.0	40.0	1.0	-40.6	-13.0	-27.6	
	8725.00	-3.7	V	3.0	39.7	1.0	-42.4	-13.0	-29.4	
	3490.00	-9.5	H	3.0	41.0	1.0	-49.5	-13.0	-36.5	
	5235.00	-12.2	H	3.0	40.1	1.0	-51.3	-13.0	-38.3	
	6980.00	-6.5	H	3.0	40.0	1.0	-45.5	-13.0	-32.5	
	8725.00	-7.2	H	3.0	39.7	1.0	-45.9	-13.0	-32.9	
	High Ch, 1770MHz									
	3540.00	-5.7	V	3.0	41.0	1.0	-45.6	-13.0	-32.6	
	5310.00	-11.5	V	3.0	40.1	1.0	-50.6	-13.0	-37.6	
	7080.00	-4.1	V	3.0	40.0	1.0	-43.2	-13.0	-30.2	
8850.00	-6.4	V	3.0	39.6	1.0	-45.0	-13.0	-32.0		
3540.00	-7.7	H	3.0	41.0	1.0	-47.7	-13.0	-34.7		
5310.00	-11.7	H	3.0	40.1	1.0	-50.8	-13.0	-37.8		
7080.00	-9.1	H	3.0	40.0	1.0	-48.1	-13.0	-35.1		
8850.00	-7.9	H	3.0	39.6	1.0	-46.5	-13.0	-33.5		
LTE Band 66 20MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788371671									
	Date: 2018-03-30									
	Test Engineer: 47989									
	Configuration: EUT / AC Adapter / Earphone, X-Position									
	Location: Chamber 3									
	Mode: LTE_16QAM Band 66 Harmonics, 20MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1720MHz									
	3440.00	-4.9	V	3.0	41.0	1.0	-44.9	-13.0	-31.9	
	5160.00	-13.5	V	3.0	40.1	1.0	-52.6	-13.0	-39.6	
	6880.00	-7.3	V	3.0	40.0	1.0	-46.3	-13.0	-33.3	
	8600.00	-1.0	V	3.0	39.8	1.0	-39.8	-13.0	-26.8	
	3440.00	-10.3	H	3.0	41.0	1.0	-50.3	-13.0	-37.3	
	5160.00	-13.2	H	3.0	40.1	1.0	-52.3	-13.0	-39.3	
	6880.00	-9.9	H	3.0	40.0	1.0	-48.9	-13.0	-35.9	
	8600.00	-3.8	H	3.0	39.8	1.0	-42.5	-13.0	-29.5	
	Mid Ch, 1745MHz									
	3490.00	-7.5	V	3.0	41.0	1.0	-47.5	-13.0	-34.5	
	5235.00	-12.4	V	3.0	40.1	1.0	-51.5	-13.0	-38.5	
	6980.00	-5.7	V	3.0	40.0	1.0	-44.8	-13.0	-31.8	
	8725.00	-4.0	V	3.0	39.7	1.0	-42.7	-13.0	-29.7	
	3490.00	-9.8	H	3.0	41.0	1.0	-49.8	-13.0	-36.8	
	5235.00	-13.8	H	3.0	40.1	1.0	-52.9	-13.0	-39.9	
	6980.00	-9.5	H	3.0	40.0	1.0	-48.6	-13.0	-35.6	
	8725.00	-7.3	H	3.0	39.7	1.0	-46.0	-13.0	-33.0	
	High Ch, 1770MHz									
	3540.00	-6.2	V	3.0	41.0	1.0	-46.2	-13.0	-33.2	
	5310.00	-13.1	V	3.0	40.1	1.0	-52.2	-13.0	-39.2	
	7080.00	-7.1	V	3.0	40.0	1.0	-46.1	-13.0	-33.1	
8850.00	-6.4	V	3.0	39.6	1.0	-45.0	-13.0	-32.0		
3540.00	-11.0	H	3.0	41.0	1.0	-51.0	-13.0	-38.0		
5310.00	-13.3	H	3.0	40.1	1.0	-52.4	-13.0	-39.4		
7080.00	-9.8	H	3.0	40.0	1.0	-48.9	-13.0	-35.9		
8850.00	-8.1	H	3.0	39.6	1.0	-46.7	-13.0	-33.7		

LTE Band 66 10MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788371671									
	Date: 2018-03-29									
	Test Engineer: 47989									
	Configuration: EUT / AC Adapter / Earphone, X-Position									
	Location: Chamber 3									
	Mode: LTE_QPSK Band 66 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1715MHz									
	3430.00	-4.5	V	3.0	41.0	1.0	-44.5	-13.0	-31.5	
	5145.00	-11.2	V	3.0	40.1	1.0	-50.3	-13.0	-37.3	
	6860.00	-0.1	V	3.0	40.0	1.0	-39.1	-13.0	-26.1	
	8575.00	-1.5	V	3.0	39.8	1.0	-40.3	-13.0	-27.3	
	3430.00	-6.7	H	3.0	41.0	1.0	-46.7	-13.0	-33.7	
	5145.00	-11.4	H	3.0	40.1	1.0	-50.6	-13.0	-37.6	
	6860.00	-7.6	H	3.0	40.0	1.0	-46.7	-13.0	-33.7	
	8575.00	-8.2	H	3.0	39.8	1.0	-46.9	-13.0	-33.9	
	Mid Ch, 1745MHz									
	3490.00	-7.9	V	3.0	41.0	1.0	-47.9	-13.0	-34.9	
	5235.00	-10.8	V	3.0	40.1	1.0	-49.9	-13.0	-36.9	
	6980.00	1.6	V	3.0	40.0	1.0	-37.4	-13.0	-24.4	
	8725.00	-3.9	V	3.0	39.7	1.0	-42.6	-13.0	-29.6	
	3490.00	-8.9	H	3.0	41.0	1.0	-48.9	-13.0	-35.9	
	5235.00	-11.5	H	3.0	40.1	1.0	-50.6	-13.0	-37.6	
	6980.00	-5.5	H	3.0	40.0	1.0	-44.5	-13.0	-31.5	
8725.00	-7.7	H	3.0	39.7	1.0	-46.4	-13.0	-33.4		
High Ch, 1775MHz										
3550.00	-5.8	V	3.0	41.0	1.0	-45.7	-13.0	-32.7		
5325.00	-10.7	V	3.0	40.1	1.0	-49.8	-13.0	-36.8		
7100.00	-1.3	V	3.0	40.0	1.0	-40.3	-13.0	-27.3		
8875.00	-7.0	V	3.0	39.6	1.0	-45.6	-13.0	-32.6		
3550.00	-8.8	H	3.0	41.0	1.0	-48.7	-13.0	-35.7		
5325.00	-11.2	H	3.0	40.1	1.0	-50.3	-13.0	-37.3		
7100.00	-8.3	H	3.0	40.0	1.0	-47.3	-13.0	-34.3		
8875.00	-7.6	H	3.0	39.6	1.0	-46.2	-13.0	-33.2		
LTE Band 66 10MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788371671									
	Date: 2018-03-29									
	Test Engineer: 47989									
	Configuration: EUT / AC Adapter / Earphone, X-Position									
	Location: Chamber 3									
	Mode: LTE_16QAM Band 66 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1715MHz									
	3430.00	-6.1	V	3.0	41.0	1.0	-46.1	-13.0	-33.1	
	5145.00	-13.3	V	3.0	40.1	1.0	-52.4	-13.0	-39.4	
	6860.00	-4.6	V	3.0	40.0	1.0	-43.6	-13.0	-30.6	
	8575.00	-6.6	V	3.0	39.8	1.0	-45.3	-13.0	-32.3	
	3430.00	-7.9	H	3.0	41.0	1.0	-48.0	-13.0	-35.0	
	5145.00	-12.2	H	3.0	40.1	1.0	-51.3	-13.0	-38.3	
	6860.00	-6.5	H	3.0	40.0	1.0	-45.5	-13.0	-32.5	
	8575.00	-8.2	H	3.0	39.8	1.0	-47.0	-13.0	-34.0	
	Mid Ch, 1745MHz									
	3490.00	-8.7	V	3.0	41.0	1.0	-48.7	-13.0	-35.7	
	5235.00	-12.4	V	3.0	40.1	1.0	-51.5	-13.0	-38.5	
	6980.00	-2.9	V	3.0	40.0	1.0	-41.9	-13.0	-28.9	
	8725.00	-6.2	V	3.0	39.7	1.0	-44.9	-13.0	-31.9	
	3490.00	-9.5	H	3.0	41.0	1.0	-49.5	-13.0	-36.5	
	5235.00	-12.9	H	3.0	40.1	1.0	-52.0	-13.0	-39.0	
	6980.00	-5.5	H	3.0	40.0	1.0	-44.5	-13.0	-31.5	
8725.00	-7.7	H	3.0	39.7	1.0	-46.4	-13.0	-33.4		
High Ch, 1775MHz										
3550.00	-6.3	V	3.0	41.0	1.0	-46.2	-13.0	-33.2		
5325.00	-11.8	V	3.0	40.1	1.0	-50.9	-13.0	-37.9		
7100.00	-4.9	V	3.0	40.0	1.0	-43.9	-13.0	-30.9		
8875.00	-6.7	V	3.0	39.6	1.0	-45.3	-13.0	-32.3		
3550.00	-9.1	H	3.0	41.0	1.0	-49.1	-13.0	-36.1		
5325.00	-12.2	H	3.0	40.1	1.0	-51.3	-13.0	-38.3		
7100.00	-8.8	H	3.0	40.0	1.0	-48.8	-13.0	-35.8		
8875.00	-8.0	H	3.0	39.6	1.0	-46.6	-13.0	-33.6		

LTE

Band 66

5MHz

QPSK

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 4788371671

Date: 2018-03-29

Test Engineer: 47989

Configuration: EUT / AC Adapter / Earphone, X-Position

Location: Chamber 3

Mode: LTE_QPSK Band 66 Harmonics, 5MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.5MHz									
3425.00	-4.4	V	3.0	41.0	1.0	-44.4	-13.0	-31.4	
5137.50	-10.9	V	3.0	40.1	1.0	-50.0	-13.0	-37.0	
6850.00	0.1	V	3.0	40.0	1.0	-38.9	-13.0	-25.9	
8562.50	-1.3	V	3.0	39.8	1.0	-40.0	-13.0	-27.0	
3425.00	-6.7	H	3.0	41.0	1.0	-46.7	-13.0	-33.7	
5137.50	-10.6	H	3.0	40.1	1.0	-49.7	-13.0	-36.7	
6850.00	-6.8	H	3.0	40.0	1.0	-45.8	-13.0	-32.8	
8562.50	-3.7	H	3.0	39.8	1.0	-42.4	-13.0	-29.4	
Mid Ch, 1745MHz									
3490.00	-7.7	V	3.0	41.0	1.0	-47.7	-13.0	-34.7	
5235.00	-9.0	V	3.0	40.1	1.0	-48.1	-13.0	-35.1	
6980.00	-0.1	V	3.0	40.0	1.0	-39.1	-13.0	-26.1	
8725.00	-3.4	V	3.0	39.7	1.0	-42.1	-13.0	-29.1	
3490.00	-8.8	H	3.0	41.0	1.0	-48.8	-13.0	-35.8	
5235.00	-10.5	H	3.0	40.1	1.0	-49.6	-13.0	-36.6	
6980.00	-4.8	H	3.0	40.0	1.0	-43.8	-13.0	-30.8	
8725.00	-3.5	H	3.0	39.7	1.0	-42.1	-13.0	-29.1	
High Ch, 1777.5MHz									
3555.00	-6.6	V	3.0	41.0	1.0	-46.6	-13.0	-33.6	
5332.50	-9.6	V	3.0	40.1	1.0	-48.7	-13.0	-35.7	
7110.00	0.4	V	3.0	40.0	1.0	-38.6	-13.0	-25.6	
8887.50	-6.6	V	3.0	39.6	1.0	-45.3	-13.0	-32.3	
3555.00	-8.5	H	3.0	41.0	1.0	-48.5	-13.0	-35.5	
5332.50	-12.0	H	3.0	40.1	1.0	-51.1	-13.0	-38.1	
7110.00	-6.7	H	3.0	40.0	1.0	-45.7	-13.0	-32.7	
8887.50	-7.5	H	3.0	39.6	1.0	-46.1	-13.0	-33.1	

LTE

Band 66

5MHz

16QAM

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 4788371671

Date: 2018-03-29

Test Engineer: 47989

Configuration: EUT / AC Adapter / Earphone, X-Position

Location: Chamber 3

Mode: LTE_16QAM Band 66 Harmonics, 5MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.5MHz									
3425.00	-4.8	V	3.0	41.0	1.0	-44.9	-13.0	-31.9	
5137.50	-13.1	V	3.0	40.1	1.0	-52.2	-13.0	-39.2	
6850.00	-3.5	V	3.0	40.0	1.0	-42.5	-13.0	-29.5	
8562.50	-2.0	V	3.0	39.8	1.0	-40.8	-13.0	-27.8	
3425.00	-7.1	H	3.0	41.0	1.0	-47.1	-13.0	-34.1	
5137.50	-12.4	H	3.0	40.1	1.0	-51.5	-13.0	-38.5	
6850.00	-8.8	H	3.0	40.0	1.0	-47.9	-13.0	-34.9	
8562.50	-3.9	H	3.0	39.8	1.0	-42.7	-13.0	-29.7	
Mid Ch, 1745MHz									
3490.00	-8.2	V	3.0	41.0	1.0	-48.2	-13.0	-35.2	
5235.00	-12.3	V	3.0	40.1	1.0	-51.4	-13.0	-38.4	
6980.00	-3.7	V	3.0	40.0	1.0	-42.8	-13.0	-29.8	
8725.00	-3.7	V	3.0	39.7	1.0	-42.4	-13.0	-29.4	
3490.00	-9.8	H	3.0	41.0	1.0	-49.8	-13.0	-36.8	
5235.00	-11.6	H	3.0	40.1	1.0	-50.7	-13.0	-37.7	
6980.00	-8.7	H	3.0	40.0	1.0	-47.8	-13.0	-34.8	
8725.00	-6.8	H	3.0	39.7	1.0	-45.4	-13.0	-32.4	
High Ch, 1777.5MHz									
3555.00	-6.8	V	3.0	41.0	1.0	-46.7	-13.0	-33.7	
5332.50	-12.3	V	3.0	40.1	1.0	-51.4	-13.0	-38.4	
7110.00	-3.2	V	3.0	40.0	1.0	-42.3	-13.0	-29.3	
8887.50	-5.6	V	3.0	39.6	1.0	-44.2	-13.0	-31.2	
3555.00	-8.6	H	3.0	41.0	1.0	-48.6	-13.0	-35.6	
5332.50	-12.6	H	3.0	40.1	1.0	-51.7	-13.0	-38.7	
7110.00	-10.2	H	3.0	40.0	1.0	-49.2	-13.0	-36.2	
8887.50	-7.7	H	3.0	39.6	1.0	-46.3	-13.0	-33.3	

LTE Band 66 3MHz QPSK		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788371671 Date: 2018-03-29 Test Engineer: 47989 Configuration: EUT / AC Adapter / Earphone, X-Position Location: Chamber 3 Mode: LTE_QPSK Band 66 Harmonics, 3MHz Bandwidth									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Ch, 1711.5MHz									
		3423.00	-6.4	V	3.0	41.0	1.0	-46.5	-13.0	-33.5	
		5134.50	-11.5	V	3.0	40.1	1.0	-50.6	-13.0	-37.6	
		6846.00	-1.5	V	3.0	40.0	1.0	-40.6	-13.0	-27.6	
		8557.50	-1.6	V	3.0	39.8	1.0	-40.4	-13.0	-27.4	
		3423.00	-4.5	H	3.0	41.0	1.0	-44.6	-13.0	-31.6	
		5134.50	-11.1	H	3.0	40.1	1.0	-50.3	-13.0	-37.3	
		6846.00	-6.5	H	3.0	40.0	1.0	-45.5	-13.0	-32.5	
		8557.50	-7.7	H	3.0	39.8	1.0	-46.4	-13.0	-33.4	
		Mid Ch, 1745MHz									
		3490.00	-7.8	V	3.0	41.0	1.0	-47.8	-13.0	-34.8	
		5235.00	-10.2	V	3.0	40.1	1.0	-49.3	-13.0	-36.3	
		6980.00	-1.6	V	3.0	40.0	1.0	-40.6	-13.0	-27.6	
		8725.00	-3.6	V	3.0	39.7	1.0	-42.3	-13.0	-29.3	
		3490.00	-8.5	H	3.0	41.0	1.0	-48.6	-13.0	-35.6	
		5235.00	-11.3	H	3.0	40.1	1.0	-50.4	-13.0	-37.4	
		6980.00	-6.5	H	3.0	40.0	1.0	-45.5	-13.0	-32.5	
		8725.00	-6.7	H	3.0	39.7	1.0	-45.4	-13.0	-32.4	
		High Ch, 1778.5MHz									
		3557.00	-8.6	V	3.0	41.0	1.0	-48.6	-13.0	-35.6	
		5335.50	-9.9	V	3.0	40.1	1.0	-49.0	-13.0	-36.0	
		7114.00	1.3	V	3.0	40.0	1.0	-37.8	-13.0	-24.8	
		8892.50	-6.3	V	3.0	39.6	1.0	-44.9	-13.0	-31.9	
		3557.00	-8.7	H	3.0	41.0	1.0	-48.7	-13.0	-35.7	
		5335.50	-12.1	H	3.0	40.1	1.0	-51.1	-13.0	-38.1	
		7114.00	-4.8	H	3.0	40.0	1.0	-43.9	-13.0	-30.9	
		8892.50	-7.3	H	3.0	39.6	1.0	-45.9	-13.0	-32.9	
LTE Band 66 3MHz 16QAM		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788371671 Date: 2018-03-29 Test Engineer: 47989 Configuration: EUT / AC Adapter / Earphone, X-Position Location: Chamber 3 Mode: LTE_16QAM Band 66 Harmonics, 3MHz Bandwidth									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Ch, 1711.5MHz									
		3423.00	-5.0	V	3.0	41.0	1.0	-45.0	-13.0	-32.0	
		5134.50	-12.1	V	3.0	40.1	1.0	-51.2	-13.0	-38.2	
		6846.00	-1.5	V	3.0	40.0	1.0	-40.5	-13.0	-27.5	
		8557.50	-4.2	V	3.0	39.8	1.0	-43.0	-13.0	-30.0	
		3423.00	-7.3	H	3.0	41.0	1.0	-47.4	-13.0	-34.4	
		5134.50	-13.8	H	3.0	40.1	1.0	-52.9	-13.0	-39.9	
		6846.00	-10.0	H	3.0	40.0	1.0	-49.1	-13.0	-36.1	
		8557.50	-8.3	H	3.0	39.8	1.0	-47.1	-13.0	-34.1	
		Mid Ch, 1745MHz									
		3490.00	-8.3	V	3.0	41.0	1.0	-48.3	-13.0	-35.3	
		5235.00	-12.1	V	3.0	40.1	1.0	-51.2	-13.0	-38.2	
		6980.00	-4.1	V	3.0	40.0	1.0	-43.1	-13.0	-30.1	
		8725.00	-3.9	V	3.0	39.7	1.0	-42.6	-13.0	-29.6	
		3490.00	-9.2	H	3.0	41.0	1.0	-49.2	-13.0	-36.2	
		5235.00	-12.9	H	3.0	40.1	1.0	-52.0	-13.0	-39.0	
		6980.00	-7.4	H	3.0	40.0	1.0	-46.4	-13.0	-33.4	
		8725.00	-7.0	H	3.0	39.7	1.0	-45.7	-13.0	-32.7	
		High Ch, 1778.5MHz									
		3557.00	-7.0	V	3.0	41.0	1.0	-46.9	-13.0	-33.9	
		5335.50	-11.0	V	3.0	40.1	1.0	-50.1	-13.0	-37.1	
		7114.00	-3.1	V	3.0	40.0	1.0	-42.1	-13.0	-29.1	
		8892.50	-7.0	V	3.0	39.6	1.0	-45.6	-13.0	-32.6	
		3557.00	-8.8	H	3.0	41.0	1.0	-48.7	-13.0	-35.7	
		5335.50	-12.0	H	3.0	40.1	1.0	-51.1	-13.0	-38.1	
		7114.00	-9.8	H	3.0	40.0	1.0	-48.9	-13.0	-35.9	
		8892.50	-7.4	H	3.0	39.6	1.0	-46.0	-13.0	-33.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
LTE Band 2 20MHz QPSK	Company: Samsung Project #: 4788371667 Date: 2018-03-14 Test Engineer: 45574 Configuration: EUT / AC Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_QPSK Band 2 Harmonics, 20MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1860MHz									
	3720.00	-13.5	V	3.0	40.9	1.0	-53.4	-13.0	-40.4	
	5580.00	-8.9	V	3.0	40.0	1.0	-47.9	-13.0	-34.9	
	7440.00	-4.5	V	3.0	40.0	1.0	-43.5	-13.0	-30.5	
	3720.00	-9.8	H	3.0	40.9	1.0	-49.7	-13.0	-36.7	
	5580.00	-13.3	H	3.0	40.0	1.0	-52.3	-13.0	-39.3	
	7440.00	-8.4	H	3.0	40.0	1.0	-47.5	-13.0	-34.5	
	Mid Ch, 1880MHz									
	3760.00	-13.5	V	3.0	40.8	1.0	-53.3	-13.0	-40.3	
	5640.00	-8.5	V	3.0	40.0	1.0	-47.6	-13.0	-34.6	
	7520.00	-4.6	V	3.0	40.0	1.0	-43.6	-13.0	-30.6	
	3760.00	-11.3	H	3.0	40.8	1.0	-51.1	-13.0	-38.1	
	5640.00	-13.7	H	3.0	40.0	1.0	-52.7	-13.0	-39.7	
	7520.00	-7.6	H	3.0	40.0	1.0	-46.7	-13.0	-33.7	
	High Ch, 1900MHz									
	3800.00	-12.8	V	3.0	40.8	1.0	-52.6	-13.0	-39.6	
	5700.00	-10.0	V	3.0	40.0	1.0	-49.0	-13.0	-36.0	
	7600.00	-0.6	V	3.0	40.0	1.0	-39.7	-13.0	-26.7	
	3800.00	-9.3	H	3.0	40.8	1.0	-49.1	-13.0	-36.1	
	5700.00	-12.8	H	3.0	40.0	1.0	-51.8	-13.0	-38.8	
	7600.00	-6.0	H	3.0	40.0	1.0	-45.0	-13.0	-32.0	
LTE Band 2 20MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788371667 Date: 2018-03-14 Test Engineer: 45574 Configuration: EUT / AC Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_16QAM Band 2 Harmonics, 20MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1860MHz									
	3720.00	-13.7	V	3.0	40.9	1.0	-53.5	-13.0	-40.5	
	5580.00	-10.7	V	3.0	40.0	1.0	-49.7	-13.0	-36.7	
	7440.00	-8.1	V	3.0	40.0	1.0	-47.2	-13.0	-34.2	
	3720.00	-10.5	H	3.0	40.9	1.0	-50.4	-13.0	-37.4	
	5580.00	-14.2	H	3.0	40.0	1.0	-53.3	-13.0	-40.3	
	7440.00	-11.5	H	3.0	40.0	1.0	-50.6	-13.0	-37.6	
	Mid Ch, 1880MHz									
	3760.00	-14.2	V	3.0	40.8	1.0	-54.1			

LTE Band 2 15MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788371667 Date: 2018-03-14 Test Engineer: 45574 Configuration: EUT / AC Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_QPSK Band 2 Harmonics, 15MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE Band 2 15MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788371667 Date: 2018-03-14 Test Engineer: 45574 Configuration: EUT / AC Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_16QAM Band 2 Harmonics, 15MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes

LTE Band 2 10MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788371667 Date: 2018-03-14 Test Engineer: 45574 Configuration: EUT / AC Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_QPSK Band 2 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE Band 2 10MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788371667 Date: 2018-03-14 Test Engineer: 45574 Configuration: EUT / AC Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_16QAM Band 2 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes

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LTE Band 13

LTE

Band 13

10MHz

QPSK

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Samsung

4788371667

2018-03-17

45574

EUT / AC Adapter / Earphone, Z-position

Chamber 3

LTE_QPSK Band 13 Harmonics, 10MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Mid Ch, 782MHz									
1564.00	-17.7	V	3.0	41.8	1.0	-58.4	-40.0	-18.4	
2346.00	-7.9	V	3.0	41.8	1.0	-48.7	-13.0	-35.7	
3128.00	-15.7	V	3.0	41.2	1.0	-55.9	-13.0	-42.9	
3910.00	-14.8	V	3.0	40.7	1.0	-54.5	-13.0	-41.5	
4692.00	-11.5	V	3.0	40.3	1.0	-50.8	-13.0	-37.8	
1564.00	-15.5	H	3.0	41.8	1.0	-56.2	-40.0	-16.2	
2346.00	-7.6	H	3.0	41.8	1.0	-48.4	-13.0	-35.4	
3128.00	-14.4	H	3.0	41.2	1.0	-54.6	-13.0	-41.6	
3910.00	-14.6	H	3.0	40.7	1.0	-54.3	-13.0	-41.3	
4692.00	-13.7	H	3.0	40.3	1.0	-53.0	-13.0	-40.0	

LTE

Band 13

10MHz

16QAM

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Samsung

4788371667

2018-03-17

45574

EUT / AC Adapter / Earphone, Z-position

Chamber 3

LTE_16QAM Band 13 Harmonics, 10MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Mid Ch, 782MHz									
1564.00	-17.1	V	3.0	41.8	1.0	-57.8	-40.0	-17.8	
2346.00	-8.5	V	3.0	41.8	1.0	-49.3	-13.0	-36.3	
3128.00	-16.0	V	3.0	41.2	1.0	-56.2	-13.0	-43.2	
3910.00	-15.7	V	3.0	40.7	1.0	-55.4	-13.0	-42.4	
4692.00	-11.7	V	3.0	40.3	1.0	-51.0	-13.0	-38.0	
1564.00	-15.2	H	3.0	41.8	1.0	-55.9	-40.0	-15.9	
2346.00	-6.4	H	3.0	41.8	1.0	-47.2	-13.0	-34.2	
3128.00	-14.6	H	3.0	41.2	1.0	-54.8	-13.0	-41.8	
3910.00	-14.9	H	3.0	40.7	1.0	-54.6	-13.0	-41.6	
4692.00	-14.2	H	3.0	40.3	1.0	-53.5	-13.0	-40.5	

LTE	Band 13	5MHz	QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788371667 Date: 2018-03-17 Test Engineer: 45574 Configuration: EUT / AC Adapter / Earphone, Z-position Location: Chamber 3 Mode: LTE_QPSK Band 13 Harmonics, 5MHz Bandwidth									
				f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
				Low Ch, 779.5MHz 1559.00 -15.5 V 3.0 41.8 1.0 -56.3 -40.0 -16.3 2338.50 -6.4 V 3.0 41.8 1.0 -47.2 -13.0 -34.2 3118.00 -15.3 V 3.0 41.2 1.0 -55.5 -13.0 -42.5 3897.50 -14.9 V 3.0 40.7 1.0 -54.7 -13.0 -41.7 4677.00 -14.0 V 3.0 40.3 1.0 -53.3 -13.0 -40.3 1559.00 -15.2 H 3.0 41.8 1.0 -56.0 -40.0 -16.0 2338.50 -7.4 H 3.0 41.8 1.0 -48.2 -13.0 -35.2 3118.00 -15.3 H 3.0 41.2 1.0 -55.5 -13.0 -42.5 3897.50 -14.9 H 3.0 40.7 1.0 -54.7 -13.0 -41.7 4677.00 -13.5 H 3.0 40.3 1.0 -52.8 -13.0 -39.8									
				Mid Ch, 782MHz 1564.00 -15.7 V 3.0 41.8 1.0 -56.5 -40.0 -16.5 2346.00 -7.3 V 3.0 41.8 1.0 -48.1 -13.0 -35.1 3128.00 -14.0 V 3.0 41.2 1.0 -54.2 -13.0 -41.2 3910.00 -13.9 V 3.0 40.7 1.0 -53.6 -13.0 -40.6 4692.00 -13.3 V 3.0 40.3 1.0 -52.6 -13.0 -39.6 1564.00 -17.8 H 3.0 41.8 1.0 -58.5 -40.0 -18.5 2346.00 -8.5 H 3.0 41.8 1.0 -49.3 -13.0 -36.3 3128.00 -16.6 H 3.0 41.2 1.0 -56.8 -13.0 -43.8 3910.00 -13.3 H 3.0 40.7 1.0 -53.0 -13.0 -40.0 4692.00 -11.3 H 3.0 40.3 1.0 -50.6 -13.0 -37.6									
LTE	Band 13	5MHz	16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788371667 Date: 2018-03-17 Test Engineer: 45574 Configuration: EUT / AC Adapter / Earphone, Z-position Location: Chamber 3 Mode: LTE_16QAM Band 13 Harmonics, 5MHz Bandwidth									
				f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
				Low Ch, 779.5MHz 1559.00 -17.5 V 3.0 41.8 1.0 -58.2 -40.0 -18.2 2338.50 -7.4 V 3.0 41.8 1.0 -48.2 -13.0 -35.2 3118.00 -16.4 V 3.0 41.2 1.0 -56.6 -13.0 -43.6 3897.50 -15.0 V 3.0 40.7 1.0 -54.7 -13.0 -41.7 4677.00 -12.5 V 3.0 40.3 1.0 -51.9 -13.0 -38.9 1559.00 -16.0 H 3.0 41.8 1.0 -56.7 -40.0 -16.7 2338.50 -7.6 H 3.0 41.8 1.0 -48.4 -13.0 -35.4 3118.00 -15.3 H 3.0 41.2 1.0 -55.5 -13.0 -42.5 3897.50 -14.7 H 3.0 40.7 1.0 -54.4 -13.0 -41.4 4677.00 -13.9 H 3.0 40.3 1.0 -53.2 -13.0 -40.2									
				Mid Ch, 782MHz 1564.00 -17.3 V 3.0 41.8 1.0 -58.1 -40.0 -18.1 2346.00 -7.3 V 3.0 41.8 1.0 -48.1 -13.0 -35.1 3128.00 -15.8 V 3.0 41.2 1.0 -56.1 -13.0 -43.1 3910.00 -15.3 V 3.0 40.7 1.0 -55.0 -13.0 -42.0 4692.00 -11.3 V 3.0 40.3 1.0 -50.6 -13.0 -37.6 1564.00 -15.9 H 3.0 41.8 1.0 -56.7 -40.0 -16.7 2346.00 -6.8 H 3.0 41.8 1.0 -47.6 -13.0 -34.6 3128.00 -14.4 H 3.0 41.2 1.0 -54.6 -13.0 -41.6 3910.00 -14.7 H 3.0 40.7 1.0 -54.4 -13.0 -41.4 4692.00 -13.5 H 3.0 40.3 1.0 -52.8 -13.0 -39.8									
				High Ch, 784.5MHz 1569.00 -18.7 V 3.0 41.8 1.0 -59.5 -40.0 -19.5 2353.50 -8.1 V 3.0 41.8 1.0 -48.9 -13.0 -35.9 3138.00 -15.7 V 3.0 41.2 1.0 -56.0 -13.0 -43.0 3922.50 -15.2 V 3.0 40.7 1.0 -54.9 -13.0 -41.9 4707.00 -11.5 V 3.0 40.3 1.0 -50.8 -13.0 -37.8 1569.00 -17.4 H 3.0 41.8 1.0 -58.2 -40.0 -18.2 2353.50 -8.6 H 3.0 41.8 1.0 -49.3 -13.0 -36.3 3138.00 -15.4 H 3.0 41.2 1.0 -55.7 -13.0 -42.7 3922.50 -15.2 H 3.0 40.7 1.0 -54.9 -13.0 -41.9 4707.00 -13.8 H 3.0 40.3 1.0 -53.1 -13.0 -40.1									

LTE Band 12

LTE Band 12 10MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788371667									
	Date: 2018-03-15									
	Test Engineer: 45574									
	Configuration: EUT / AC Adapter / Earphone, Z-position									
	Location: Chamber 3									
	Mode: LTE_QPSK Band 12 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 704MHz									
	1408.00	-19.4	V	3.0	41.7	1.0	-60.1	-13.0	-47.1	
	2112.00	-0.7	V	3.0	42.0	1.0	-41.6	-13.0	-28.6	
	2816.00	-13.4	V	3.0	41.5	1.0	-53.8	-13.0	-40.8	
	3520.00	-4.8	V	3.0	41.0	1.0	-44.7	-13.0	-31.7	
	4224.00	-10.1	V	3.0	40.6	1.0	-49.6	-13.0	-36.6	
	1408.00	-17.7	V	3.0	41.7	1.0	-58.3	-13.0	-45.3	
	2112.00	-2.5	H	3.0	42.0	1.0	-43.5	-13.0	-30.5	
	2816.00	-14.8	H	3.0	41.5	1.0	-55.3	-13.0	-42.3	
	3520.00	1.2	H	3.0	41.0	1.0	-38.8	-13.0	-25.8	
	4224.00	-11.3	H	3.0	40.6	1.0	-50.8	-13.0	-37.8	
	Mid Ch, 707.5MHz									
	1415.00	-16.8	V	3.0	41.7	1.0	-57.5	-13.0	-44.5	
	2122.50	-3.8	V	3.0	41.9	1.0	-44.7	-13.0	-31.7	
	2830.00	-14.8	V	3.0	41.4	1.0	-55.2	-13.0	-42.2	
	3537.50	-0.4	V	3.0	41.0	1.0	-40.3	-13.0	-27.3	
	4245.00	-9.7	V	3.0	40.5	1.0	-49.2	-13.0	-36.2	
	1415.00	-17.1	H	3.0	41.7	1.0	-57.7	-13.0	-44.7	
	2122.50	-5.8	H	3.0	41.9	1.0	-46.8	-13.0	-33.8	
	2830.00	-15.7	H	3.0	41.4	1.0	-56.2	-13.0	-43.2	
	3537.50	-0.2	H	3.0	41.0	1.0	-40.2	-13.0	-27.2	
	4245.00	-15.3	H	3.0	40.5	1.0	-54.9	-13.0	-41.9	
	High Ch, 711MHz									
	1422.00	-14.7	V	3.0	41.7	1.0	-55.4	-13.0	-42.4	
	2133.00	-0.4	V	3.0	41.9	1.0	-41.3	-13.0	-28.3	
	2844.00	-10.6	V	3.0	41.4	1.0	-51.0	-13.0	-38.0	
	3555.00	5.4	V	3.0	41.0	1.0	-34.6	-13.0	-21.6	
	4266.00	-4.7	V	3.0	40.5	1.0	-44.2	-13.0	-31.2	
	1422.00	-14.8	H	3.0	41.7	1.0	-55.5	-13.0	-42.5	
	2133.00	-2.6	H	3.0	41.9	1.0	-43.5	-13.0	-30.5	
2844.00	-12.1	H	3.0	41.4	1.0	-52.6	-13.0	-39.6		
3555.00	5.0	H	3.0	41.0	1.0	-35.0	-13.0	-22.0		
4266.00	-6.4	H	3.0	40.5	1.0	-45.9	-13.0	-32.9		

LTE	Band 12	5MHz	QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788371667 Date: 2018-03-15 Test Engineer: 45574 Configuration: EUT / AC Adapter / Earphone, Z-position Location: Chamber 3 Mode: LTE_QPSK Band 12 Harmonics, 5MHz Bandwidth									
				f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
				MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
				Low Ch, 701.5MHz 1403.00 -14.4 V 3.0 41.7 1.0 -55.1 -13.0 -42.1 2104.50 2.2 V 3.0 42.0 1.0 -38.8 -13.0 -25.8 2806.00 -11.2 V 3.0 41.5 1.0 -51.7 -13.0 -38.7 3507.50 4.5 V 3.0 41.0 1.0 -35.5 -13.0 -22.5 4209.00 -8.0 V 3.0 40.6 1.0 -45.6 -13.0 -32.6 1403.00 -17.5 H 3.0 41.7 1.0 -58.2 -13.0 -45.2 2104.50 0.0 H 3.0 42.0 1.0 -40.9 -13.0 -27.9 2806.00 -12.5 H 3.0 41.5 1.0 -53.0 -13.0 -40.0 3507.50 4.5 H 3.0 41.0 1.0 -35.5 -13.0 -22.5 4209.00 -7.6 H 3.0 40.6 1.0 -47.1 -13.0 -34.1 Mid Ch, 707.5MHz 1415.00 -16.9 V 3.0 41.7 1.0 -57.5 -13.0 -44.5 2122.50 -3.7 V 3.0 41.9 1.0 -44.6 -13.0 -31.6 2830.00 -14.9 V 3.0 41.4 1.0 -55.3 -13.0 -42.3 3537.50 0.1 V 3.0 41.0 1.0 -39.8 -13.0 -26.8 4245.00 -9.5 V 3.0 40.5 1.0 -49.0 -13.0 -36.0 1415.00 -16.7 H 3.0 41.7 1.0 -57.4 -13.0 -44.4 2122.50 -5.7 H 3.0 41.9 1.0 -46.7 -13.0 -33.7 2830.00 -15.7 H 3.0 41.4 1.0 -56.2 -13.0 -43.2 3537.50 0.3 H 3.0 41.0 1.0 -39.6 -13.0 -26.6 4245.00 -11.8 H 3.0 40.5 1.0 -51.3 -13.0 -38.3 High Ch, 713.5MHz 1427.00 -14.4 V 3.0 41.7 1.0 -55.1 -13.0 -42.1 2140.50 -1.5 V 3.0 41.9 1.0 -42.4 -13.0 -29.4 2854.00 -4.2 V 3.0 41.4 1.0 -46.6 -13.0 -33.6 3567.50 6.2 V 3.0 41.0 1.0 -33.7 -13.0 -20.7 4281.00 -5.1 V 3.0 40.5 1.0 -44.7 -13.0 -31.7 1427.00 -16.5 H 3.0 41.7 1.0 -57.2 -13.0 -44.2 2140.50 -2.3 H 3.0 41.9 1.0 -43.2 -13.0 -30.2 2854.00 -8.6 H 3.0 41.4 1.0 -49.0 -13.0 -36.0 3567.50 5.7 H 3.0 41.0 1.0 -34.3 -13.0 -21.3 4281.00 -7.2 H 3.0 40.5 1.0 -46.7 -13.0 -33.7									
LTE	Band 12	5MHz	16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788371667 Date: 2018-03-15 Test Engineer: 45574 Configuration: EUT / AC Adapter / Earphone, Z-position Location: Chamber 3 Mode: LTE_16QAM Band 12 Harmonics, 5MHz Bandwidth									
				f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
				MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
				Low Ch, 701.5MHz 1403.00 -14.9 V 3.0 41.7 1.0 -55.6 -13.0 -42.6 2104.50 3.2 V 3.0 42.0 1.0 -37.8 -13.0 -24.8 2806.00 -11.2 V 3.0 41.5 1.0 -51.6 -13.0 -38.6 3507.50 4.0 V 3.0 41.0 1.0 -36.0 -13.0 -23.0 4209.00 -5.9 V 3.0 40.6 1.0 -45.4 -13.0 -32.4 1403.00 -17.4 H 3.0 41.7 1.0 -58.1 -13.0 -45.1 2104.50 0.7 H 3.0 42.0 1.0 -40.2 -13.0 -27.2 2806.00 -11.9 H 3.0 41.5 1.0 -52.3 -13.0 -39.3 3507.50 4.2 H 3.0 41.0 1.0 -35.8 -13.0 -22.8 4209.00 -8.3 H 3.0 40.6 1.0 -47.9 -13.0 -34.9 Mid Ch, 707.5MHz 1415.00 -18.0 V 3.0 41.7 1.0 -58.6 -13.0 -45.6 2122.50 -3.3 V 3.0 41.9 1.0 -44.3 -13.0 -31.3 2830.00 -15.3 V 3.0 41.4 1.0 -55.7 -13.0 -42.7 3537.50 -3.1 V 3.0 41.0 1.0 -43.1 -13.0 -30.1 4245.00 -11.1 V 3.0 40.5 1.0 -50.7 -13.0 -37.7 1415.00 -17.3 H 3.0 41.7 1.0 -57.9 -13.0 -44.9 2122.50 -5.9 H 3.0 41.9 1.0 -46.8 -13.0 -33.8 2830.00 -16.0 H 3.0 41.4 1.0 -56.4 -13.0 -43.4 3537.50 -3.0 H 3.0 41.0 1.0 -43.0 -13.0 -30.0 4245.00 -12.3 H 3.0 40.5 1.0 -51.9 -13.0 -38.9 High Ch, 713.5MHz 1427.00 -14.8 V 3.0 41.7 1.0 -55.5 -13.0 -42.5 2140.50 0.1 V 3.0 41.9 1.0 -40.8 -13.0 -27.8 2854.00 -7.4 V 3.0 41.4 1.0 -47.8 -13.0 -34.8 3567.50 5.5 V 3.0 41.0 1.0 -34.5 -13.0 -21.5 4281.00 -5.6 V 3.0 40.5 1.0 -45.1 -13.0 -32.1 1427.00 -17.0 H 3.0 41.7 1.0 -57.7 -13.0 -44.7 2140.50 -1.5 H 3.0 41.9 1.0 -42.4 -13.0 -29.4 2854.00 -9.3 H 3.0 41.4 1.0 -49.7 -13.0 -36.7 3567.50 4.9 H 3.0 41.0 1.0 -35.1 -13.0 -22.1 4281.00 -6.2 H 3.0 40.5 1.0 -45.8 -13.0 -32.8									