



**Forensic
Analytics**

Communications Data Experts

UK Cellular Frequency Allocations

Q1 2020

Key

ARFCN	highlights remaining GSM & UMTS channels
ARFCN	channel in use in this frequency band
ARFCN	channel no longer in general use in this frequency band
ARFCN	recently changed allocation

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Additional updates provided by Peter Clarke of pedroc.co.uk

	Channel Numbers		Use	Comments
	From	To		
GSM900				
VF (E-GSM)	975	999		Used for 3G - U09 2938
O2 (E-GSM)	1000	1023		Used for 3G - U09 2963
VF	1	24		Used for UMTS 2987 (being phased out) or LTE 3574/3575
VF	25	61		Used for GSM
VF	62	87		Used for UMTS 3050 (being phased out) or LTE 3700
O2	88	124		Used for GSM
GSM1800				
O2	512	540		Used for LTE - L18 1226
VF	541	569		Used for LTE - L18 1288
H3G	570	644		Used for LTE - L18 1392
EE	645	670		Used for GSM
	671	719		Used for LTE
	720	843		Used for LTE
	844	869		Used for GSM

UMTS900				
VF	2938		HSPA+	Used for UMTS
VF	2987		HSPA+	Used for U09 2987 (being phased out) or L09 3574/3575
O2	2963		HSPA+	Used for UMTS
O2	3050		HSPA+	Used for U09 3050 (being phased out) or L09 3700
UMTS2100				
H3G	10564		HSPA+	Used for UMTS
	10588		HSPA+	Used for LTE in areas where 5G is deployed
	10612		HSPA+	Used for LTE in areas where 5G is deployed
O2	10637		HSPA+	Used for LTE in some areas
	10661		HSPA+	Used for LTE in some areas
VF	10687		Sure Signal femtocells/HSPA+	Used for LTE in some areas
	10712		HSPA+	Used for LTE in some areas
	10736		HSPA+	Used for LTE in some areas
EE	10761		HSPA+	Used for UMTS
	10786		HSPA+	Used for LTE
	10811		HSPA+	Generally used for LTE but has been detected as UMTS
	10836		HSPA+	Used for LTE
LTE800	Band 20			
H3G	6175		5MHz channel	
EE	6225		5MHz channel	
VF	6300		10MHz channel	
O2	6400		10MHz channel	
LTE900	Band 08			
VF	3574		5MHz channel	Replaces UARFCN 2987 used in south-east
VF	3575		5MHz channel	Replaces UARFCN 2987 used in north-west
O2	3700		5MHz channel	Replaces UARFCN 3050
LTE1500	Band 32			Supplementary Downlink band
VF	10020	1462 MHz	20MHz	Downlink Only
H3G	10220	1482 MHz	20MHz	Downlink Only

LTE1800	Band 03			
O2	1226		5MHz channel	macrocell use
	1228		5MHz channel	used for microcells, offset from macrocell channel (1226)
	1227		5MHz channel	occasional use
	1229		5MHz channel	occasional use
	1230		5MHz channel	occasional use
VF	1288		5MHz channel	
H3G	1392		15MHz channel	
	1363		3MHz channel	has been referred to in signalling but not detected
EE	1617		20MHz channel	Reorganisation makes this the primary EE LTE1800 channel
	1761		10MHz channel	10MHz secondary L18 carrier
	1788		15MHz channel	15MHz secondary L18 carrier
	1808		10MHz channel	small cells
LTE2100	Band 01			
H3G	99		10MHz channel	replaces UMTS 10588 & 10612
	76		5MHz channel	Used as 4G primary cell in UKBB 5G areas
	124		5MHz channel	Used as 4G primary cell in UKBB 5G areas
O2	199		10MHz channel	replaces UMTS 10637 & 10661
VF	323		15MHz channel	replaces UMTS 10687, 10712 & 10736
	347		10MHz channel	replaces UMTS 10712 & 10736 only
EE	522		15MHz channel	replaces UMTS 10786, 10811 & 10836
LTE2300 TDD	Band 40			
O2	39250	2360.0 MHz	20MHz channel	
	39448	2379.8 MHz	20MHz channel	
LTE2600 FDD	Band 07			
VF	2850		20MHz channel	
EE	3176		15MHz channel	small cell kiosks
	3179		15MHz channel	
	3350		20MHz channel	
	3026		15MHz channel	small cell kiosks
	3029		15MHz channel	Third Band 7/L26 carrier, currently on very busy sites only

LTE 2600 TDD	Band 38			
VF	37900		20MHz channel	
BT	TBD			
LTE 3400	Band 42			
VF	TBD		10MHz channel	Theoretical channel, not been detected in live network yet
	TBD		20MHz channel	Theoretical channel, not been detected in live network yet
	TBD		20MHz channel	Theoretical channel, not been detected in live network yet
H3G	TBD		20MHz channel	Theoretical channel, not been detected in live network yet
	TBD		20MHz channel	Theoretical channel, not been detected in live network yet
UK BB (H3G)	42490		20MHz channel	
	43490		20MHz channel	
	43740		20MHz channel	
	43940		20MHz channel	
	44140		20MHz channel	
	44340		20MHz channel	
O2	TBD		20MHz channel	Theoretical channel, not been detected in live network yet
	TBD		20MHz channel	Theoretical channel, not been detected in live network yet
EE	TBD		20MHz channel	Theoretical channel, not been detected in live network yet
	TBD		20MHz channel	Theoretical channel, not been detected in live network yet
5G 3400-3600	N78			
EE	637334		40MHz channel	
VF	629332		50MHz channel	Newly deployed channel
	627638		50MHz channel	Newly deployed channel
	627648		50MHz channel	Newly deployed channel
	628320		50MHz channel	Newly deployed channel
	629332		40MHz channel	Newly deployed channel
	628588		40MHz channel	Newly deployed channel
O2	634666		40MHz channel	Newly deployed channel
	634656		40MHz channel	Newly deployed channel
	633696		40MHz channel	Newly deployed channel
	634368		20MHz channel	Newly deployed channel
H3G	642000		100MHz channel	Newly deployed channel