

Data File : VV011588.D
Acq On : 18 Jun 2019 21:13
Operator : SY/MD
Sample : K3381-09
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFCQ6

Quant Time: Jun 19 02:14:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061419WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jun 19 02:08:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	144269	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	139515	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	57163	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	52897	4.86	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.20%
7) Chloroethane-d5	1.55	69	35687	5.17	ug/L	-0.03
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.40%
11) 1,1-Dichloroethene-d2	2.12	63	297087	14.32	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	286.40%#
20) 2-Butanone-d5	3.94	46	194998	63.62	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	127.24%
24) Chloroform-d	4.39	84	107735	5.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.80%
26) 1,2-Dichloroethane-d4	5.08	65	63429	5.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.60%
32) Benzene-d6	5.09	84	210871	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.20%
36) 1,2-Dichloropropane-d6	6.11	67	69973	5.30	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.00%
41) Toluene-d8	7.36	98	181929	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
43) trans-1,3-Dichloropropene-	7.66	79	21863	4.97	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.40%
46) 2-Hexanone-d5	8.13	63	151990	59.90	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	119.80%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	56180	5.67	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	113.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	65461	5.74	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	114.80%

Target Compounds

					Qvalue
3) Chloromethane	1.25	50	2132	0.153 ug/L	91
5) Vinyl chloride	1.32	62	357474	25.963 ug/L	100
8) Chloroethane	1.57	64	164481	24.670 ug/L	98
9) Trichlorofluoromethane	1.96	101	3634	0.240 ug/L	93
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	144833	16.720 ug/L	98
12) 1,1-Dichloroethene	2.13	96	374786	41.771 ug/L #	79
13) Acetone	2.19	43	4496	2.177 ug/L	99
16) Methylene chloride	2.52	84	5600	0.549 ug/L	98
18) trans-1,2-Dichloroethene	2.78	96	8916	0.879 ug/L	95
19) 1,1-Dichloroethane	3.22	63	3546054	168.956 ug/L	99
22) cis-1,2-Dichloroethene	3.95	96	2023111	176.018 ug/L #	97
25) Chloroform	4.42	83	12628	0.600 ug/L	94
27) 1,2-Dichloroethane	5.18	62	10438	0.703 ug/L #	89
29) 1,1,1-Trichloroethane	4.65	97	3798979	218.855 ug/L	98
31) Carbon tetrachloride	4.65	117	454761	32.374 ug/L	100
33) Benzene	5.14	78	10303	0.226 ug/L	100
34) Trichloroethene	5.96	95	1714161	147.508 ug/L	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV061919\
Quantitation Report (Not Reviewed)

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QLast Update : Wed Jun 19 02:08:53 2019
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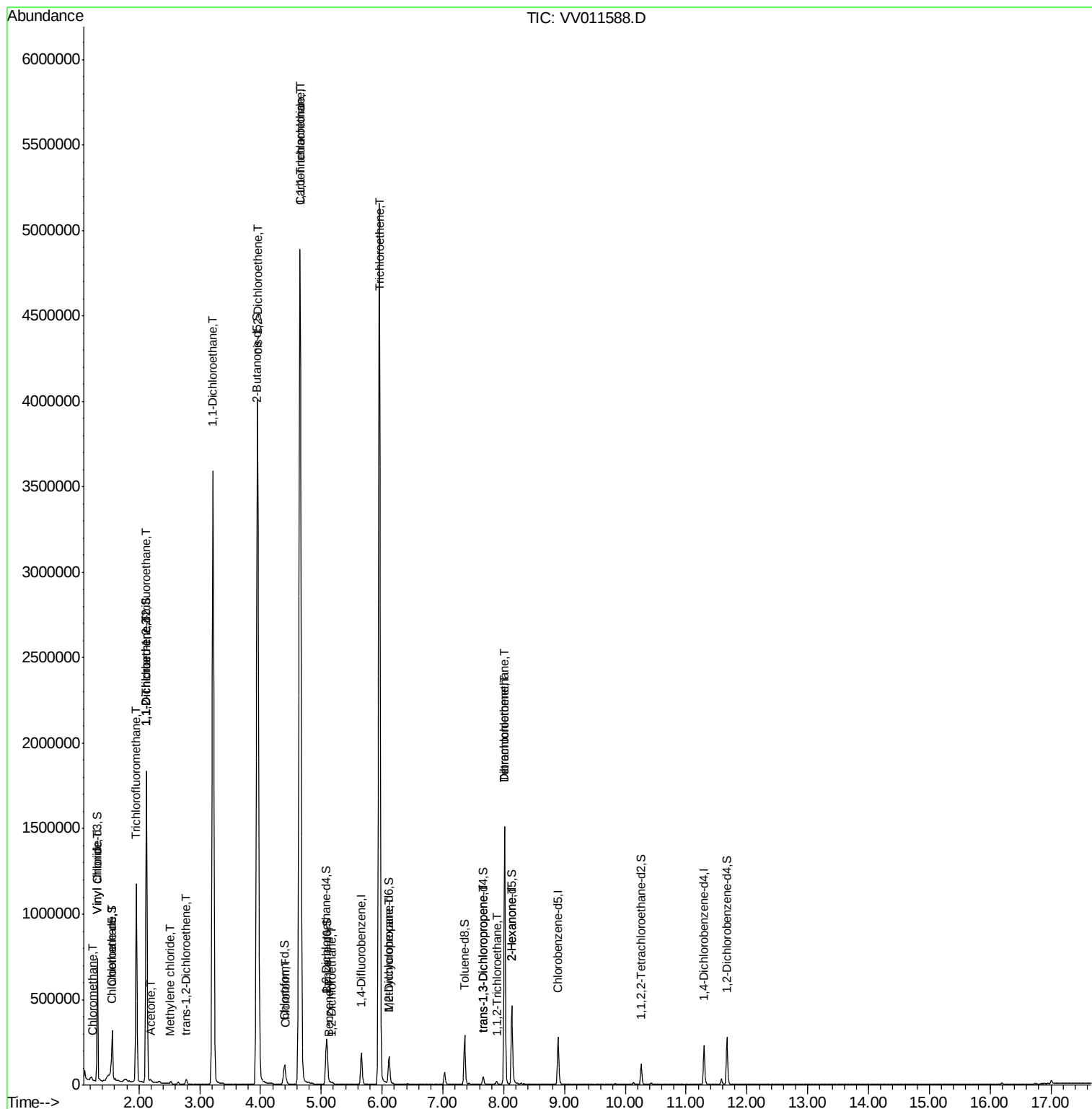
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Methylcyclohexane	6.12	83	16513	0.997	ug/L #	15
44) trans-1,3-Dichloropropene	7.66	75	1218	0.104	ug/L	92
45) 1,1,2-Trichloroethane	7.88	97	6005	0.742	ug/L	97
47) Tetrachloroethene	8.02	164	306513	36.986	ug/L	98
48) 2-Hexanone	8.13	43	21607	3.555	ug/L #	71
49) Dibromochloromethane	8.02	129	277995	34.170	ug/L #	12

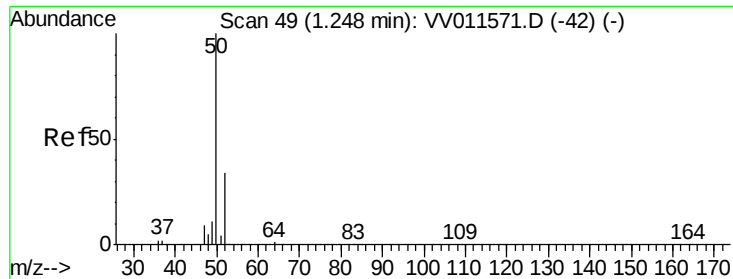
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.153 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

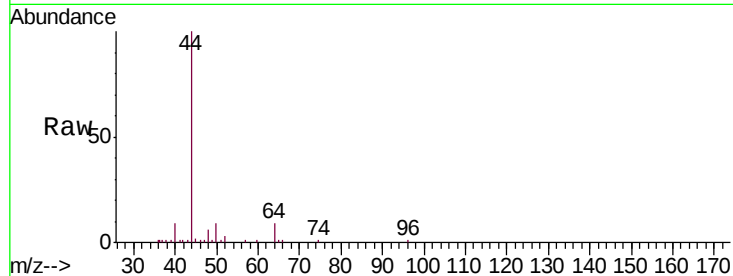
BFCQ6

Tgt Ion: 50 Resp: 2132

Ion Ratio Lower Upper

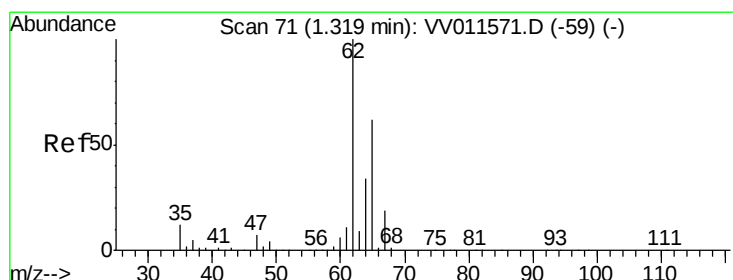
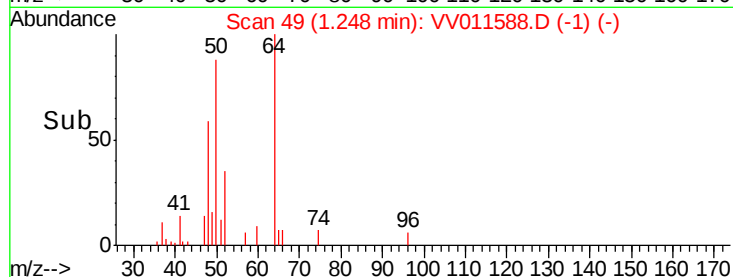
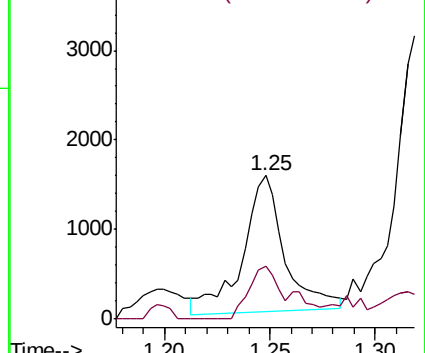
50 100

52 37.4 22.7 42.1



Abundance Ion 50.05 (49.75 to 50.75): VV011571.D (-42) (-)

Ion 52.05 (51.75 to 52.75): VV011571.D (-42) (-)



#5

Vinyl chloride

Concen: 25.963 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV011588.D

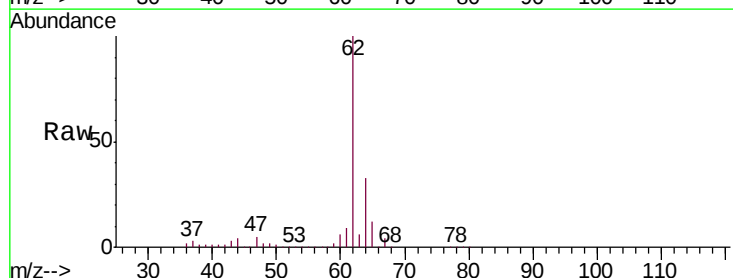
Acq: 18 Jun 2019 21:13

Tgt Ion: 62 Resp: 357474

Ion Ratio Lower Upper

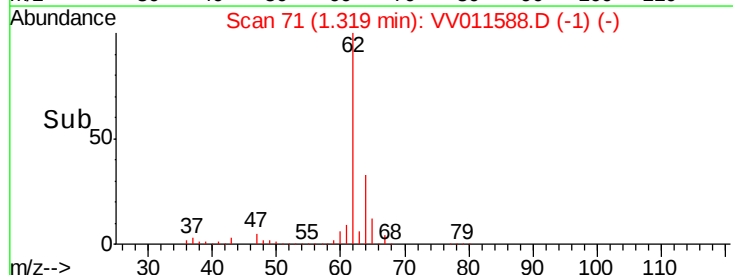
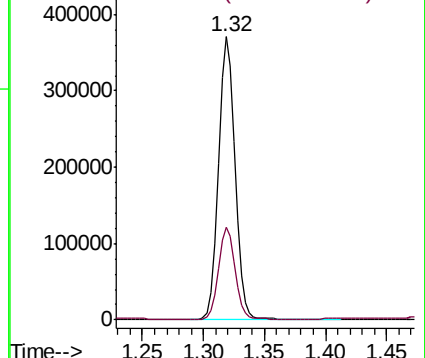
62 100

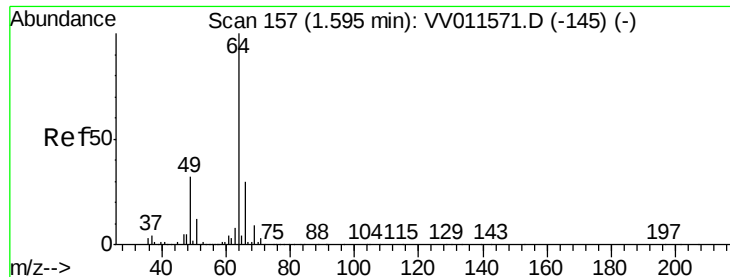
64 32.8 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VV011571.D (-59) (-)

Ion 64.10 (63.80 to 64.80): VV011571.D (-59) (-)





#8

Chloroethane

Concen: 24.670 ug/L

RT: 1.57 min Scan# 148

Delta R.T. -0.03 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

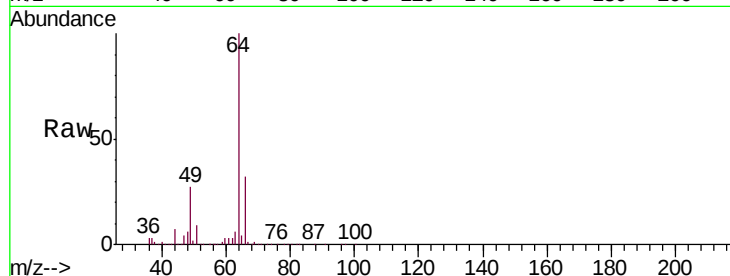
BFCQ6

Tgt Ion: 64 Resp: 164481

Ion Ratio Lower Upper

64 100

66 32.1 21.6 40.2



Abundance Ion 64.10 (63.80 to 64.80): VV011571.D (-145) (-)

Ion 66.05 (65.75 to 66.75): VV011588.D (-64) (-)

150000

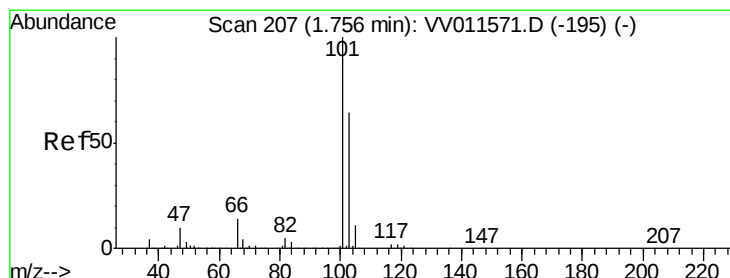
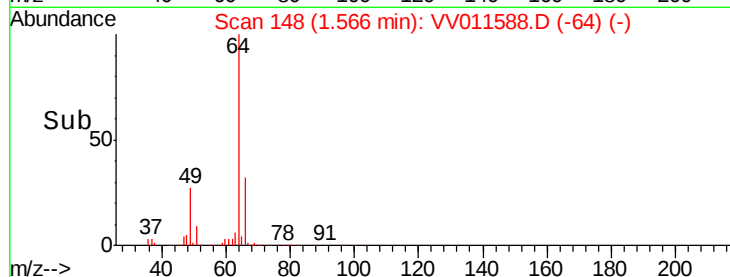
100000

50000

0

1.50 1.55 1.60

Time-->



#9

Trichlorofluoromethane

Concen: 0.240 ug/L

RT: 1.96 min Scan# 270

Delta R.T. 0.20 min

Lab File: VV011588.D

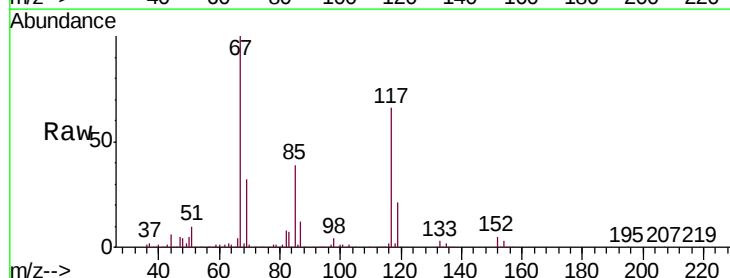
Acq: 18 Jun 2019 21:13

Tgt Ion: 101 Resp: 3634

Ion Ratio Lower Upper

101 100

103 70.8 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VV011571.D (-195) (-)

Ion 103.00 (102.70 to 103.70): VV011588.D (-114) (-)

2500

2000

1500

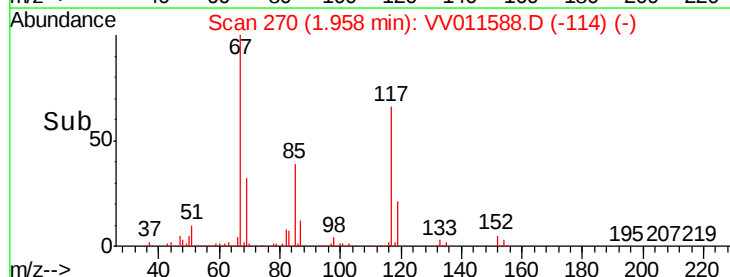
1000

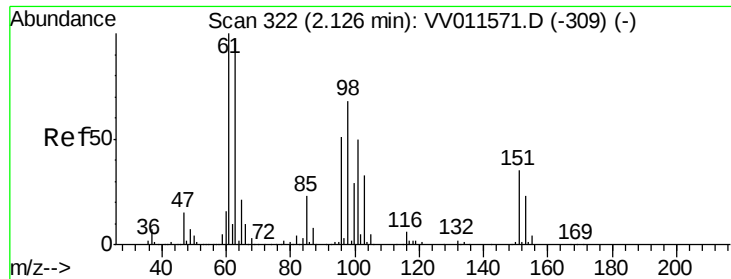
500

0

1.90 1.95 2.00

Time-->





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 16.720 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

BFCQ6

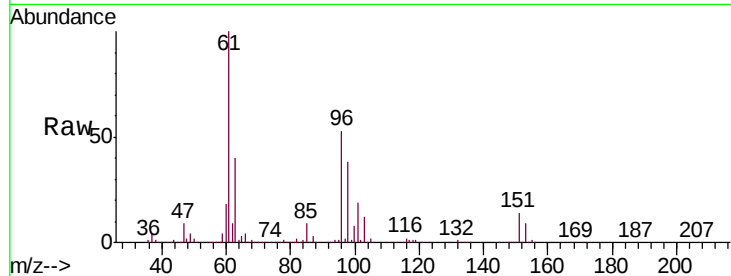
Tgt Ion:101 Resp: 144833

Ion Ratio Lower Upper

101 100

85 45.3 37.3 55.9

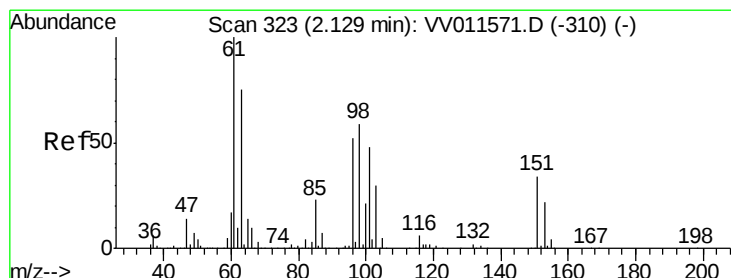
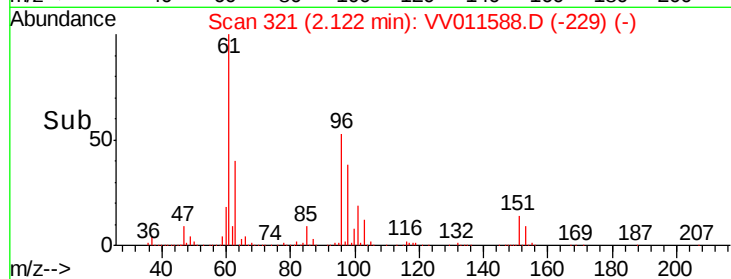
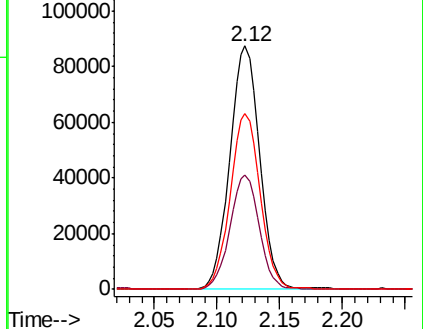
151 72.0 59.4 89.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 41.771 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

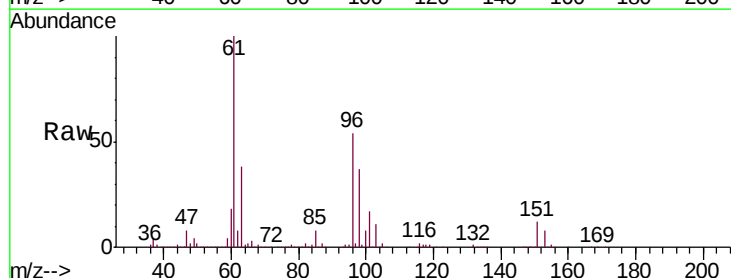
Tgt Ion: 96 Resp: 374786

Ion Ratio Lower Upper

96 100

61 186.6 135.9 252.5

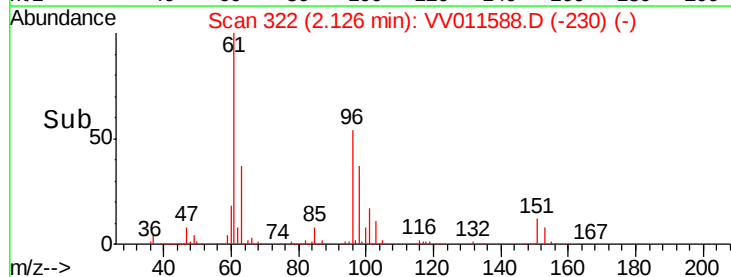
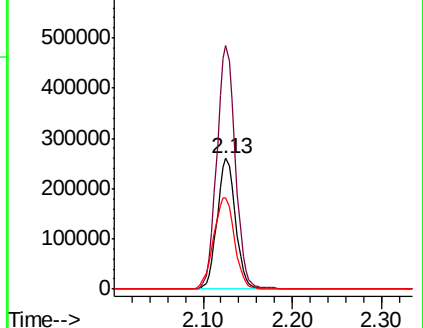
63 70.0 86.2 160.2#

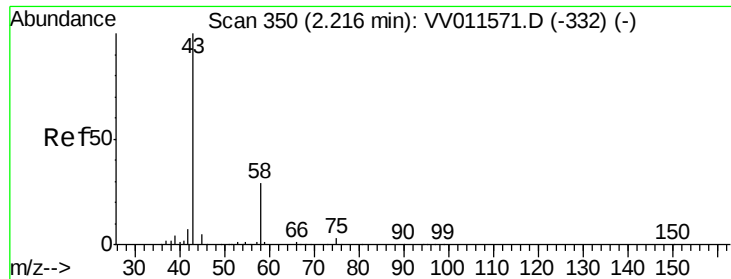


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 2.177 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.03 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

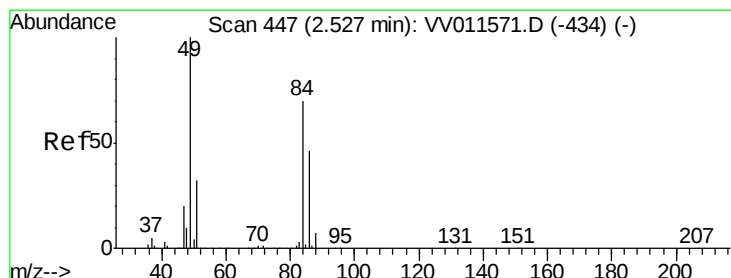
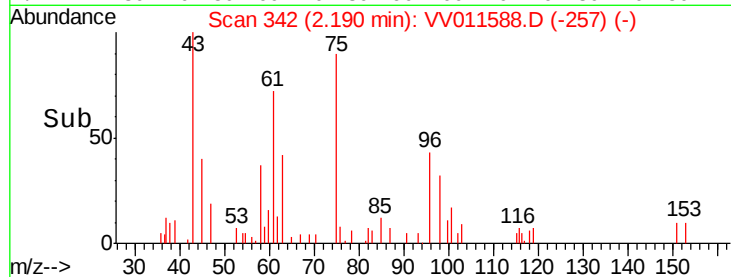
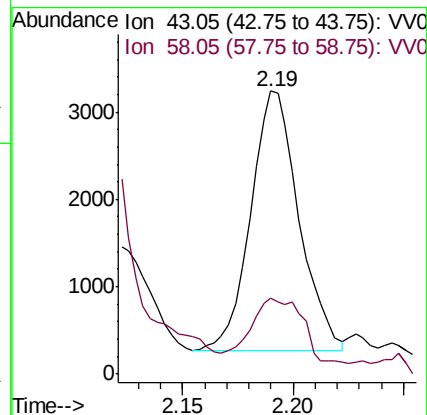
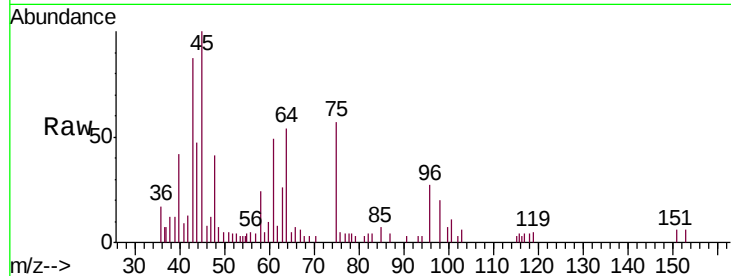
BFCQ6

Tgt Ion: 43 Resp: 4496

Ion Ratio Lower Upper

43 100

58 28.3 0.0 57.8



#16

Methylene chloride

Concen: 0.549 ug/L

RT: 2.52 min Scan# 446

Delta R.T. -0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

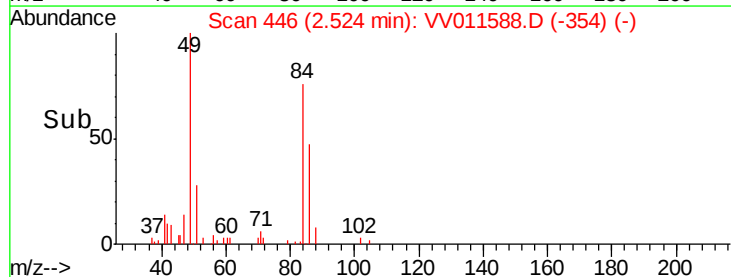
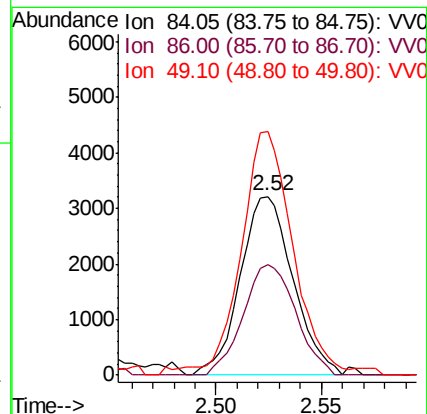
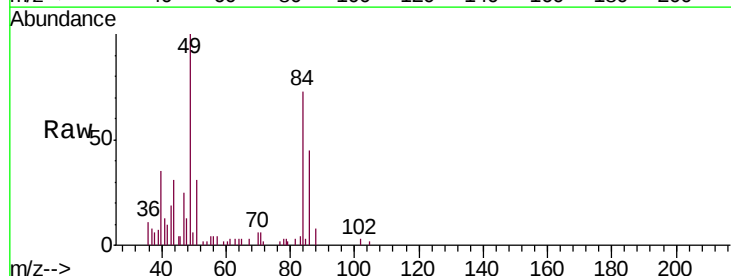
Tgt Ion: 84 Resp: 5600

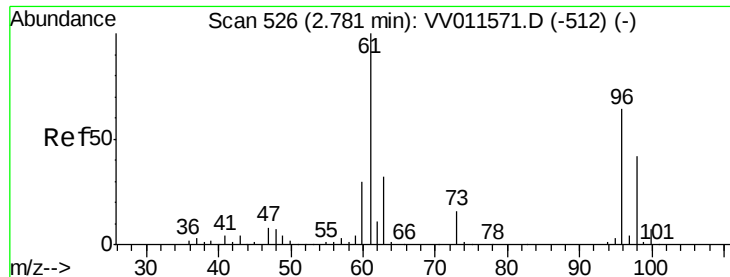
Ion Ratio Lower Upper

84 100

86 61.6 42.5 78.9

49 136.1 97.7 181.5

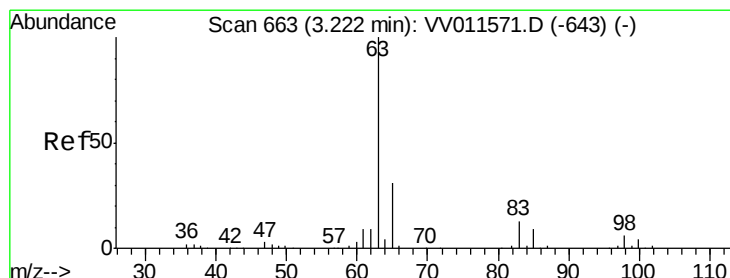
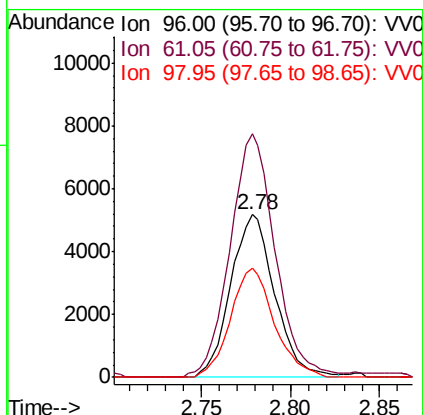
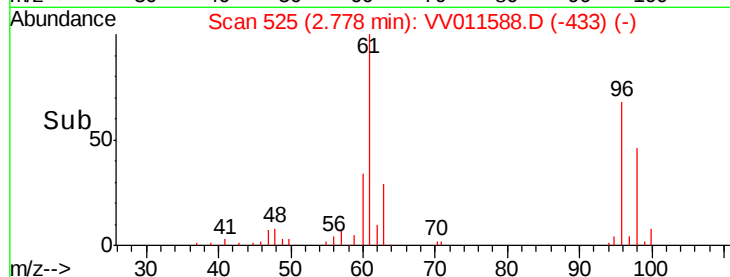
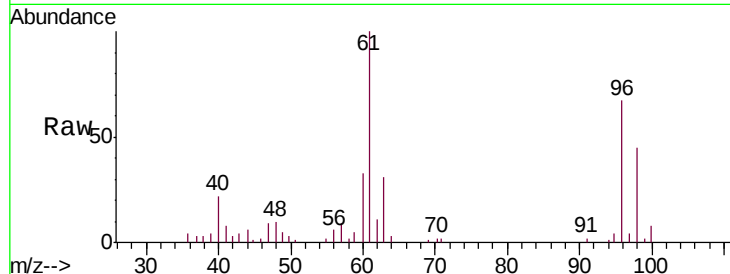




#18
 trans-1,2-Dichloroethene
 Concen: 0.879 ug/L
 RT: 2.78 min Scan# 525
 Delta R.T. -0.00 min
 Lab File: VV011588.D
 Acq: 18 Jun 2019 21:13

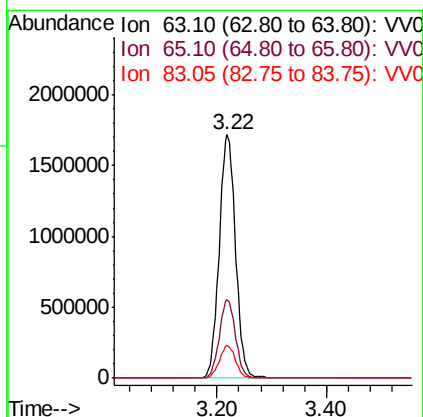
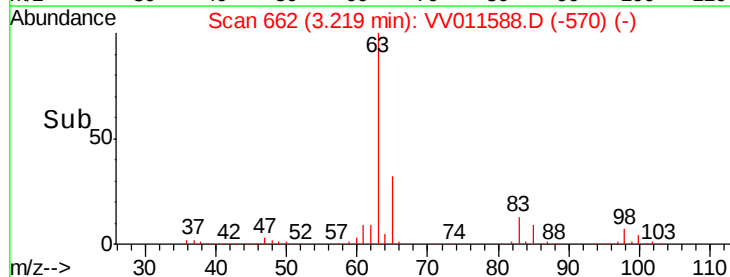
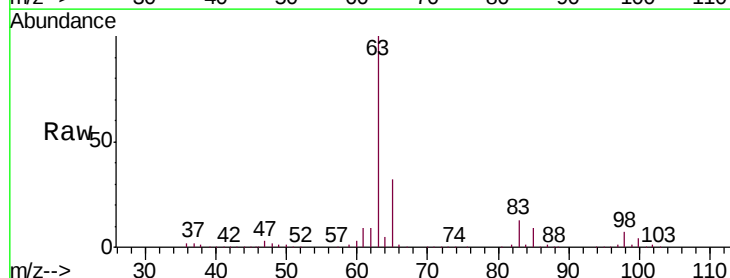
Instrument :
 MSVOA_V
 ClientSampled :
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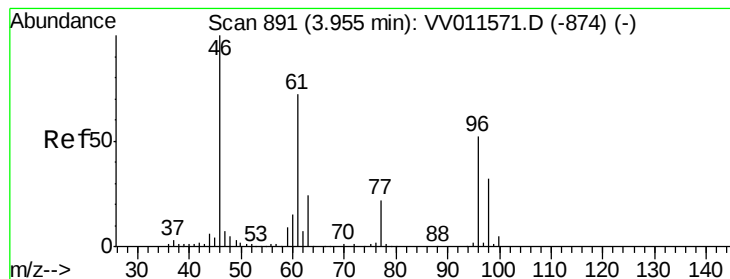
Tgt Ion: 96 Resp: 8916
 Ion Ratio Lower Upper
 96 100
 61 149.6 110.0 204.4
 98 66.8 45.8 85.0



#19
 1,1-Dichloroethane
 Concen: 168.956 ug/L
 RT: 3.22 min Scan# 662
 Delta R.T. -0.00 min
 Lab File: VV011588.D
 Acq: 18 Jun 2019 21:13

Tgt Ion: 63 Resp: 3546054
 Ion Ratio Lower Upper
 63 100
 65 32.4 22.5 41.9
 83 13.5 10.1 18.9



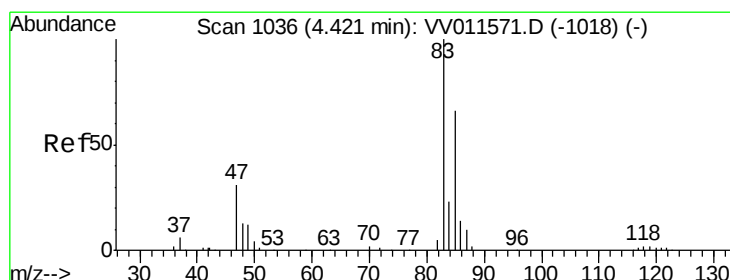
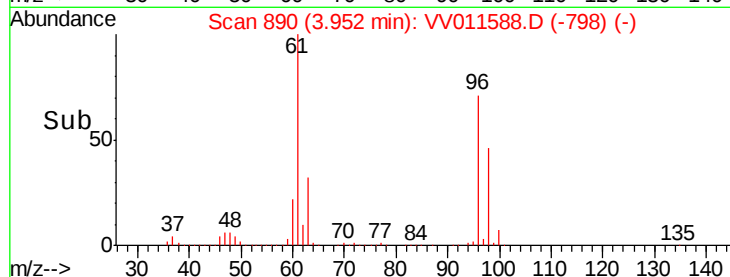
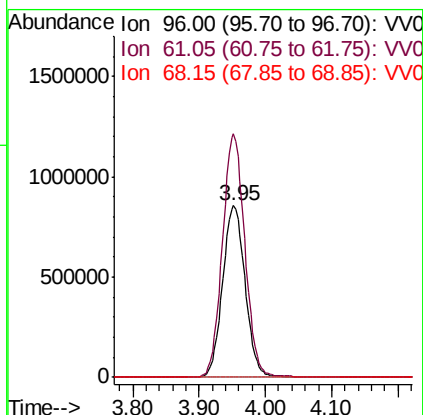
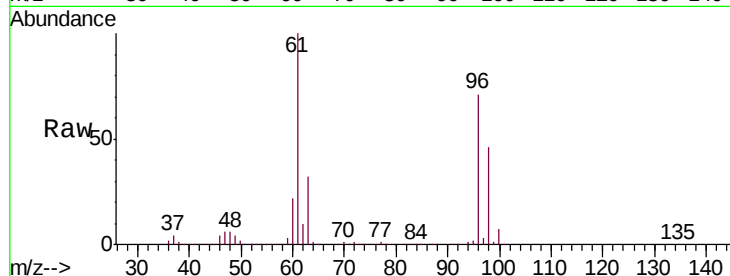


#22

cis-1,2-Dichloroethene
 Concen: 176.018 ug/L
 RT: 3.95 min Scan# 890
 Delta R.T. -0.00 min
 Lab File: VV011588.D
 Acq: 18 Jun 2019 21:13

Instrument :
 MSVOA_V
 ClientSampleId :
 BFCQ6

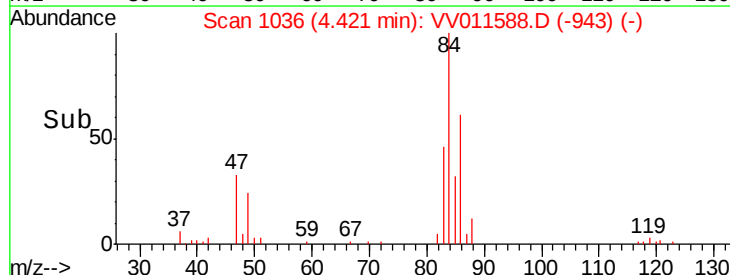
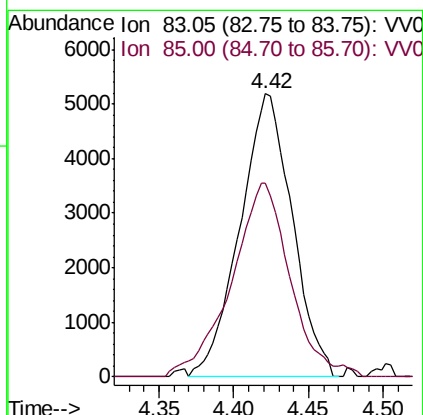
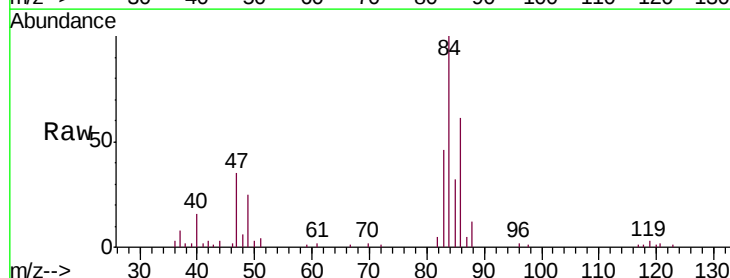
Tgt Ion: 96 Resp: 2023111
 Ion Ratio Lower Upper
 96 100
 61 141.8 102.2 189.8
 68 0.0 0.0 0.0#

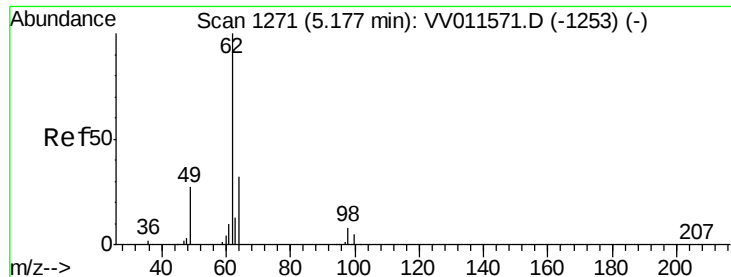


#25

Chloroform
 Concen: 0.600 ug/L
 RT: 4.42 min Scan# 1036
 Delta R.T. 0.00 min
 Lab File: VV011588.D
 Acq: 18 Jun 2019 21:13

Tgt Ion: 83 Resp: 12628
 Ion Ratio Lower Upper
 83 100
 85 68.4 44.6 82.8





#27

1,2-Dichloroethane

Concen: 0.703 ug/L

RT: 5.18 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

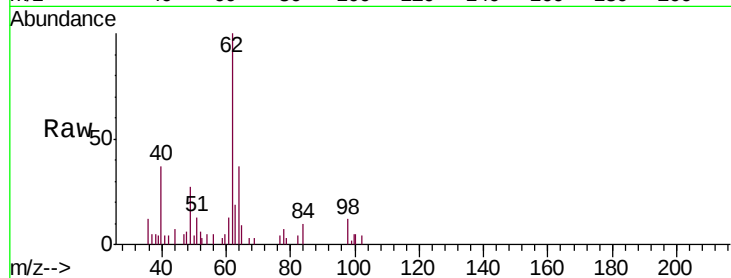
BFCQ6

Tgt Ion: 62 Resp: 10438

Ion Ratio Lower Upper

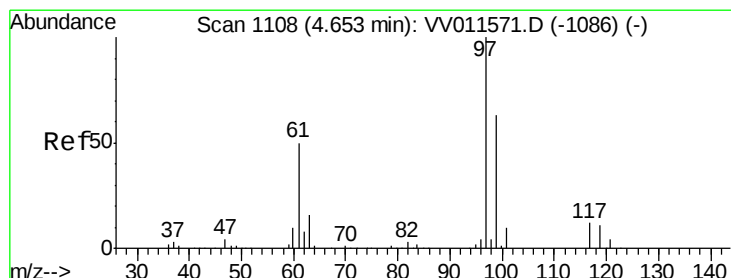
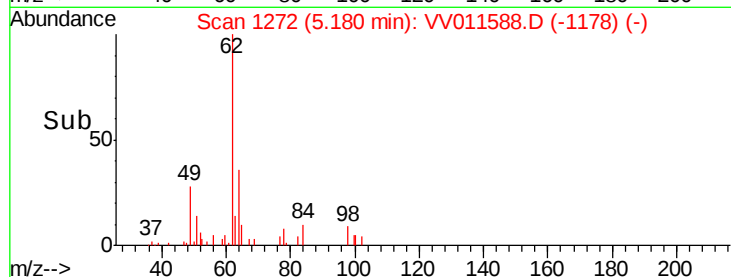
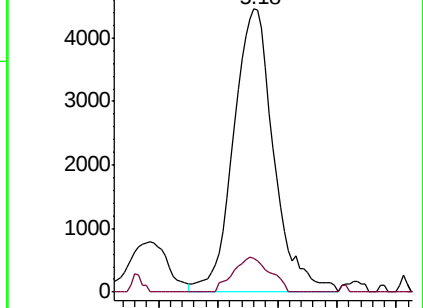
62 100

98 12.0 6.5 9.7#



Abundance Ion 62.00 (61.70 to 62.70): VV011571.D (-1253) (-)

Ion 98.05 (97.75 to 98.75): VV011571.D (-1253) (-)



#29

1,1,1-Trichloroethane

Concen: 218.855 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

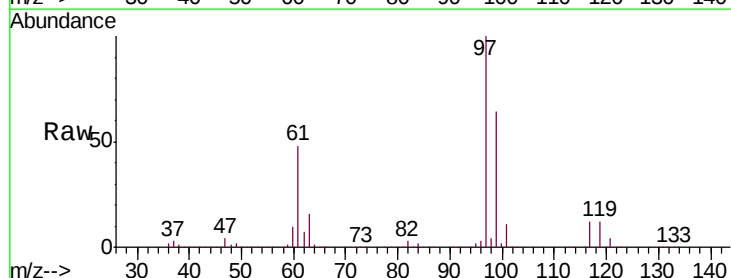
Tgt Ion: 97 Resp: 3798979

Ion Ratio Lower Upper

97 100

99 64.1 51.6 77.4

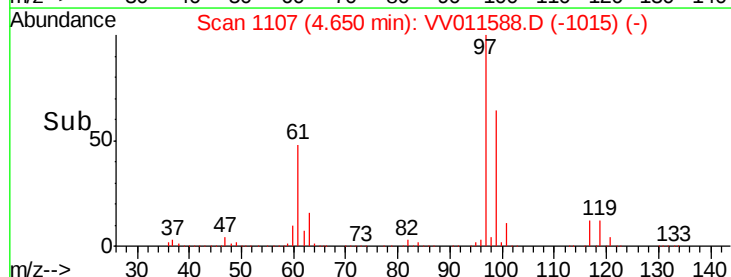
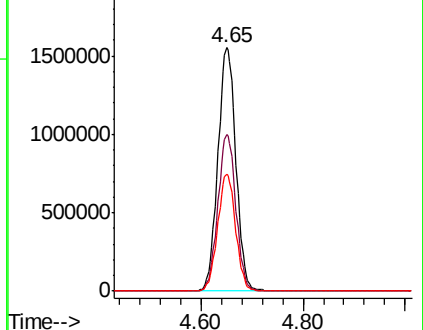
61 47.9 40.4 60.6

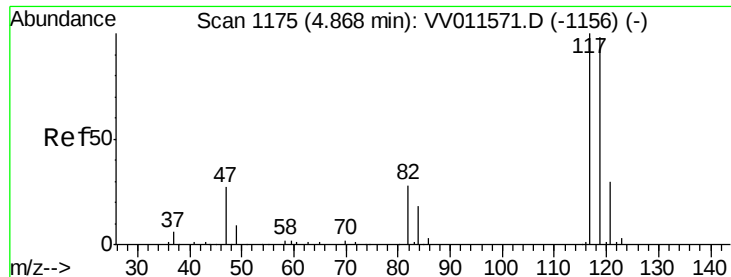


Abundance Ion 96.95 (96.65 to 97.65): VV011571.D (-1086) (-)

Ion 99.05 (98.75 to 99.75): VV011571.D (-1086) (-)

Ion 61.05 (60.75 to 61.75): VV011571.D (-1086) (-)





#31

Carbon tetrachloride

Concen: 32.374 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. -0.22 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

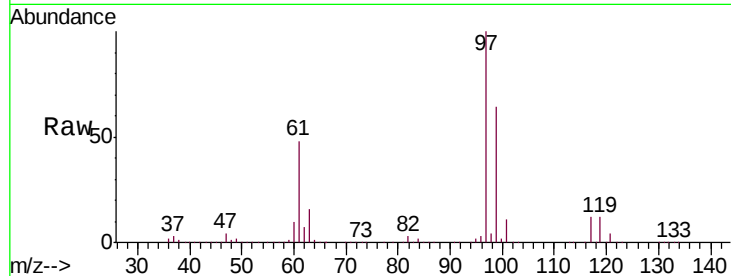
BFCQ6

Tgt Ion:117 Resp: 454761

Ion Ratio Lower Upper

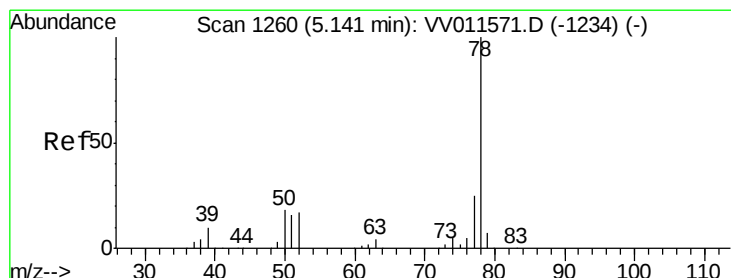
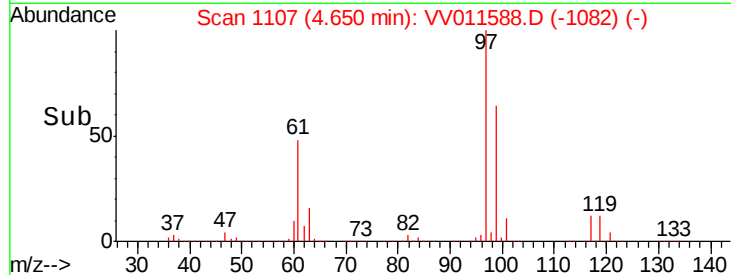
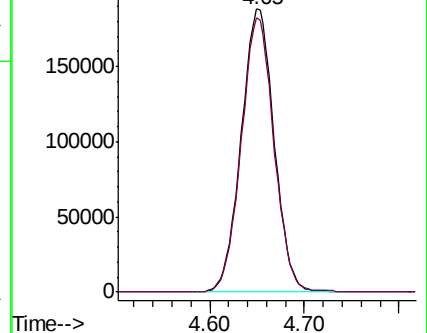
117 100

119 96.3 77.4 116.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.226 ug/L

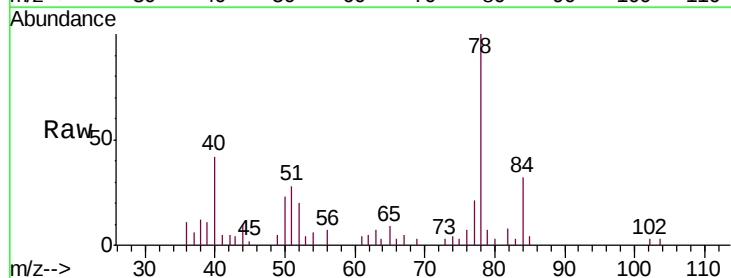
RT: 5.14 min Scan# 1260

Delta R.T. 0.00 min

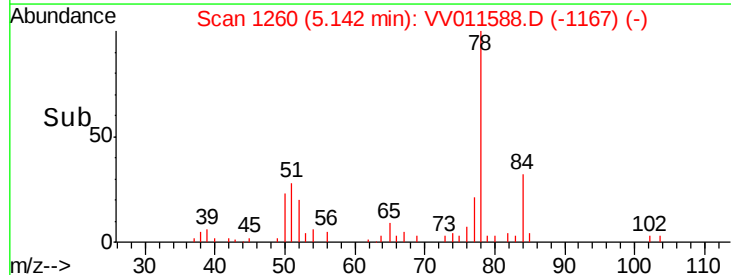
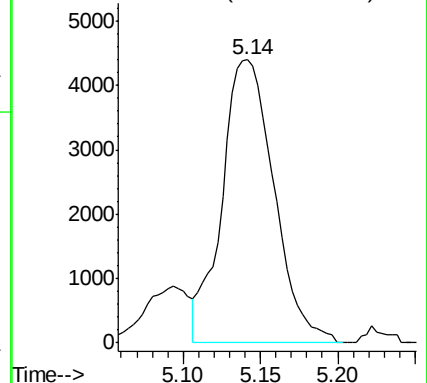
Lab File: VV011588.D

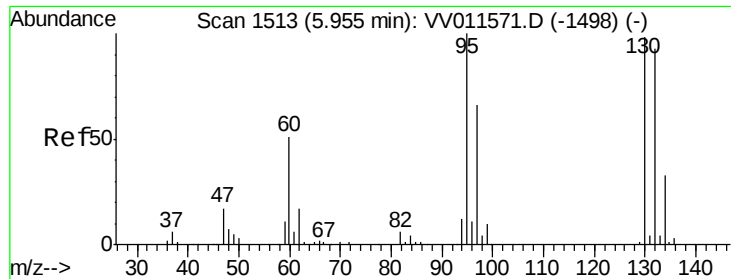
Acq: 18 Jun 2019 21:13

Tgt Ion: 78 Resp: 10303



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 147.508 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

BFCQ6

Tgt Ion: 95 Resp: 1714161

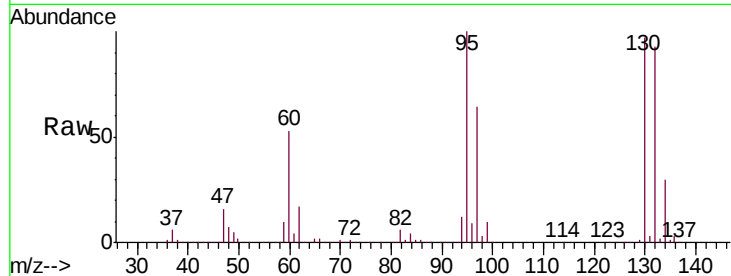
Ion Ratio Lower Upper

95 100

97 64.3 44.4 82.4

132 93.1 63.5 117.9

130 96.7 68.5 127.3

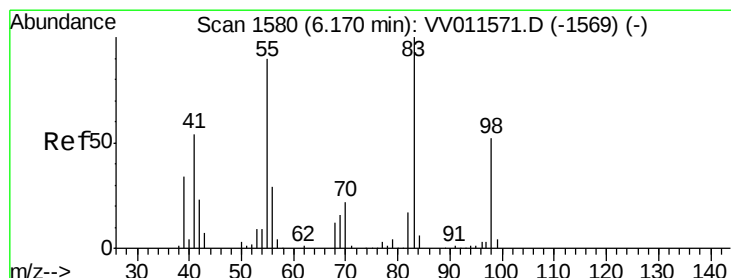
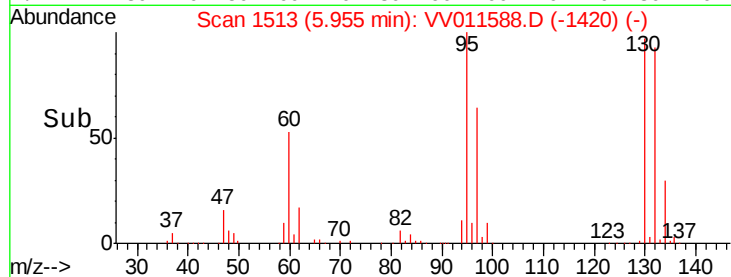
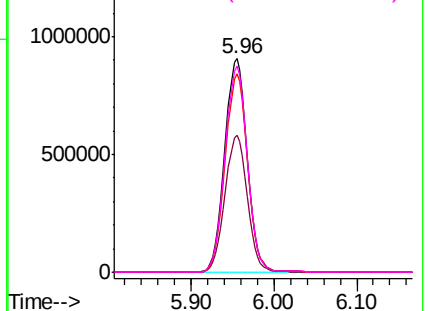


Abundance Ion 95.00 (94.70 to 95.70): VV011571.D (-1498) (-)

Ion 96.95 (96.65 to 97.65): VV011571.D (-1498) (-)

Ion 131.95 (131.65 to 132.65): VV011571.D (-1498) (-)

Ion 129.95 (129.65 to 130.65): VV011571.D (-1498) (-)



#35

Methylcyclohexane

Concen: 0.997 ug/L

RT: 6.12 min Scan# 1563

Delta R.T. -0.05 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

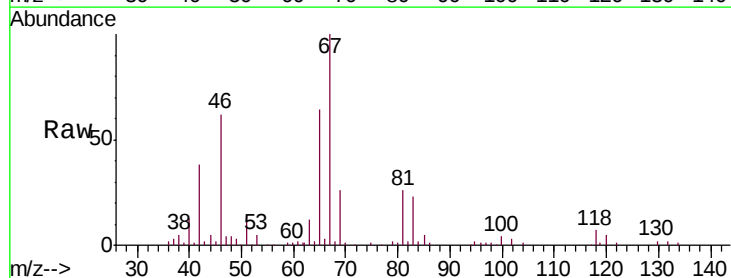
Tgt Ion: 83 Resp: 16513

Ion Ratio Lower Upper

83 100

55 0.5 67.9 101.9#

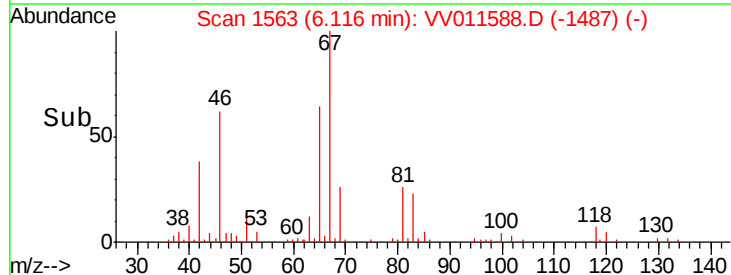
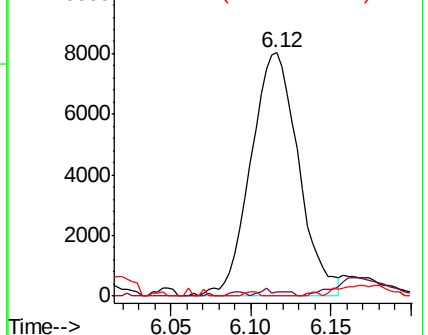
98 0.0 39.6 59.4#

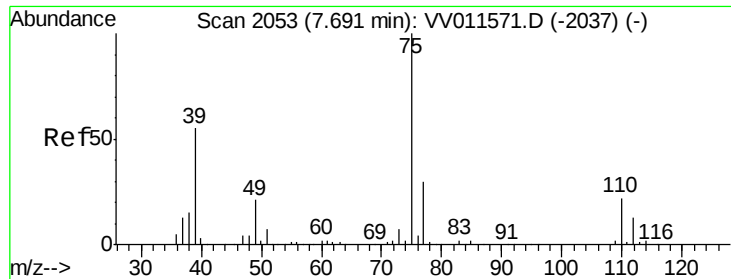


Abundance Ion 83.15 (82.85 to 83.85): VV011571.D (-1569) (-)

Ion 55.10 (54.80 to 55.80): VV011571.D (-1569) (-)

Ion 98.15 (97.85 to 98.85): VV011571.D (-1569) (-)





#44

trans-1,3-Dichloropropene

Concen: 0.104 ug/L

RT: 7.66 min Scan# 2042

Delta R.T. -0.04 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

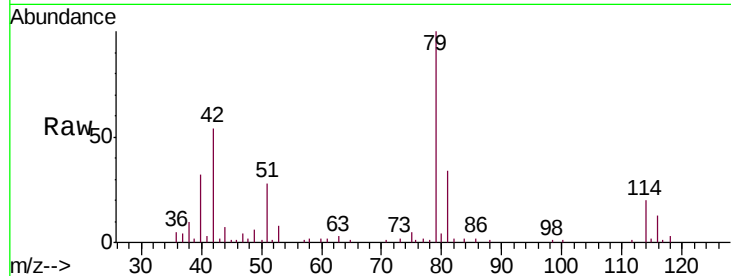
BFCQ6

Tgt Ion: 75 Resp: 1218

Ion Ratio Lower Upper

75 100

77 37.2 22.8 42.4



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.66

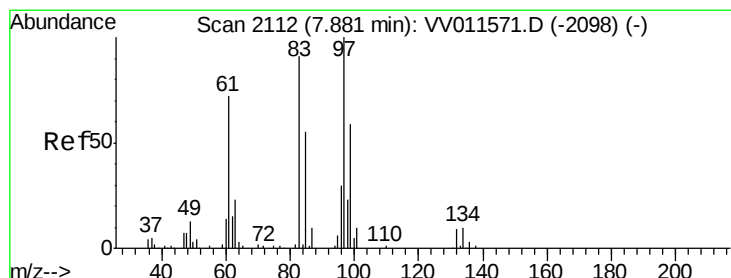
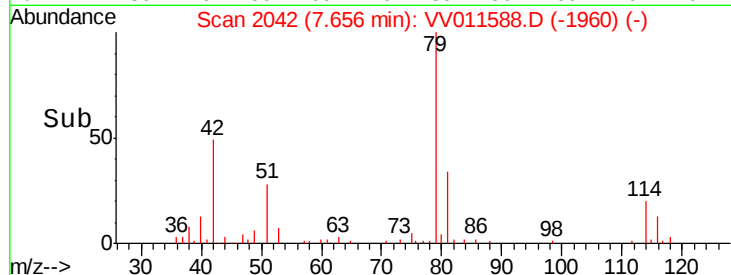
600

400

200

0

Time-->



#45

1,1,2-Trichloroethane

Concen: 0.742 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Tgt Ion: 97 Resp: 6005

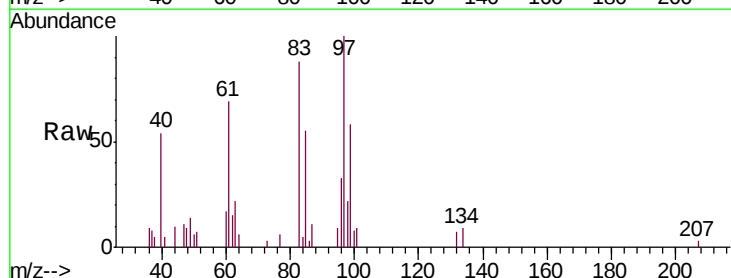
Ion Ratio Lower Upper

97 100

99 58.4 45.4 84.4

83 87.9 60.6 112.6

85 54.8 38.6 71.6



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

5000

4000

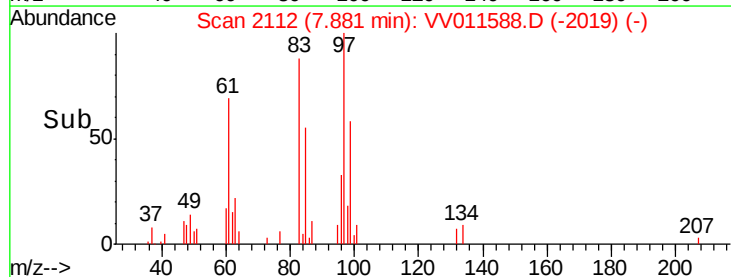
3000

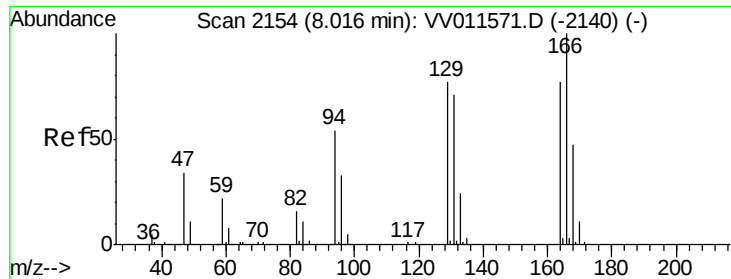
2000

1000

0

Time-->

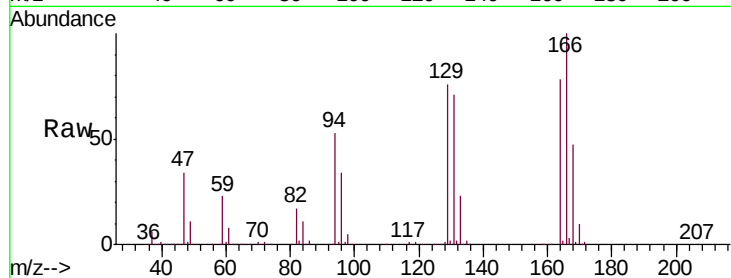




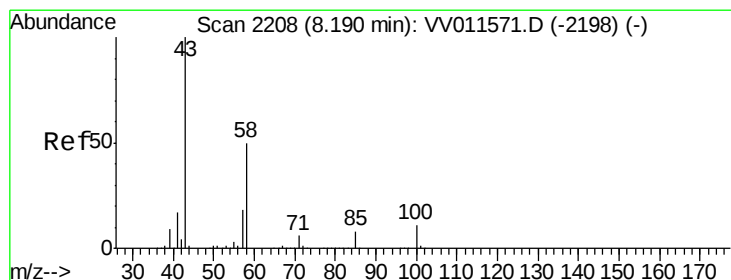
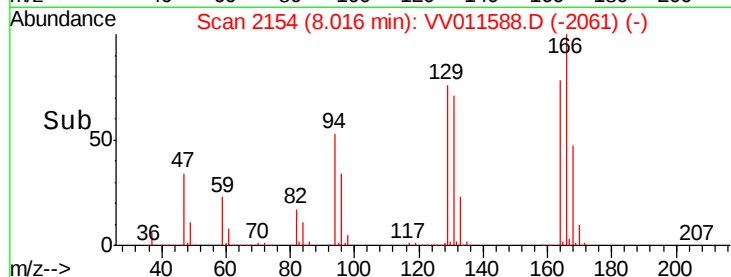
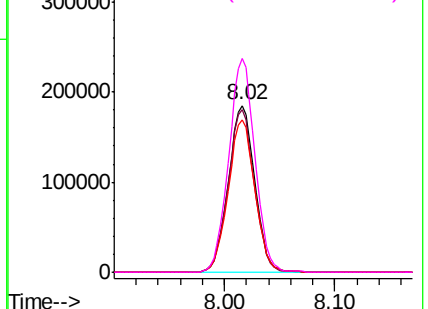
#47
Tetrachloroethene
Concen: 36.986 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV011588.D
Acq: 18 Jun 2019 21:13

Instrument :
MSVOA_V
ClientSampleId :
BFCQ6

Tgt Ion:164 Resp: 306513
Ion Ratio Lower Upper
164 100
129 97.4 68.8 127.8
131 91.5 63.2 117.4
166 128.3 87.0 161.6

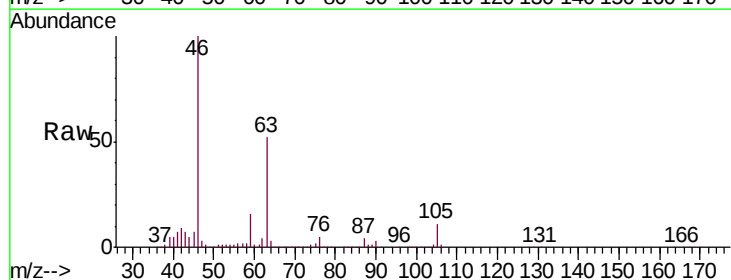


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

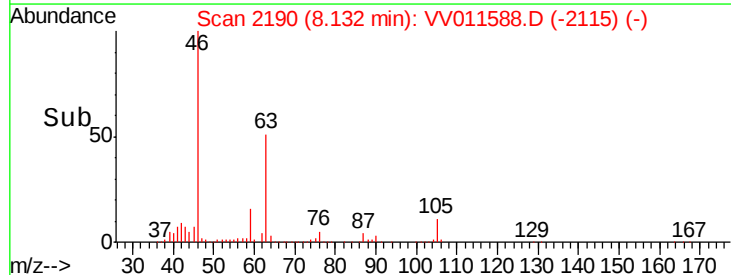
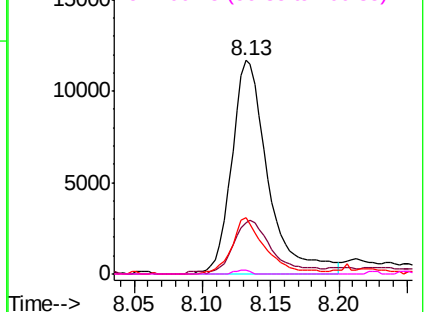


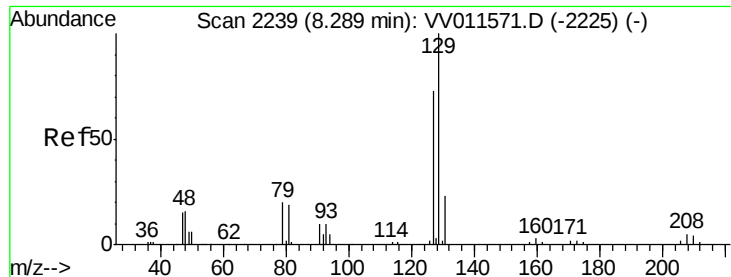
#48
2-Hexanone
Concen: 3.555 ug/L
RT: 8.13 min Scan# 2190
Delta R.T. -0.06 min
Lab File: VV011588.D
Acq: 18 Jun 2019 21:13

Tgt Ion: 43 Resp: 21607
Ion Ratio Lower Upper
43 100
58 26.8 40.6 60.8#
57 24.4 14.2 21.4#
100 0.7 8.6 12.8#



Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0





#49

Dibromochloromethane

Concen: 34.170 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.27 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

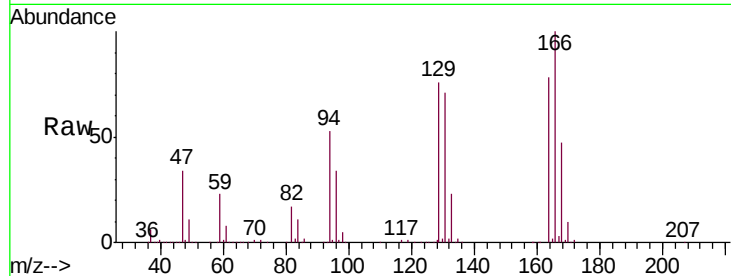
BFCQ6

Tgt Ion:129 Resp: 277995

Ion Ratio Lower Upper

129 100

127 0.1 52.6 97.6#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

