

Data File : VV011590.D
Acq On : 18 Jun 2019 22:05
Operator : SY/MD
Sample : K3381-14
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFCQ4

Quant Time: Jun 19 02:14:39 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	153101	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	145105	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	58654	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	53597	4.64	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.80%
7) Chloroethane-d5	1.55	69	37737	5.15	ug/L	-0.03
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.00%
11) 1,1-Dichloroethene-d2	2.12	63	161030	7.32	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	146.40%#
20) 2-Butanone-d5	3.94	46	196217	60.33	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.66%
24) Chloroform-d	4.39	84	112708	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.40%
26) 1,2-Dichloroethane-d4	5.08	65	66645	5.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.60%
32) Benzene-d6	5.09	84	217820	5.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.60%
36) 1,2-Dichloropropane-d6	6.11	67	70678	5.14	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.80%
41) Toluene-d8	7.36	98	188141	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
43) trans-1,3-Dichloropropene-	7.66	79	20761	4.54	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.80%
46) 2-Hexanone-d5	8.13	63	151802	57.53	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	115.06%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	56070	5.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.80%
64) 1,2-Dichlorobenzene-d4	11.67	152	67508	5.77	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	115.40%

Target Compounds

						Qvalue
3) Chloromethane	1.25	50	2169	0.147	ug/L	97
5) Vinyl chloride	1.32	62	7264	0.497	ug/L #	57
8) Chloroethane	1.32	64	2818	0.398	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1924	0.209	ug/L #	75
12) 1,1-Dichloroethene	2.13	96	139645	14.666	ug/L #	84
13) Acetone	2.19	43	6343	2.894	ug/L	96
18) trans-1,2-Dichloroethene	2.78	96	4249	0.395	ug/L	94
19) 1,1-Dichloroethane	3.22	63	914130	41.042	ug/L	98
22) cis-1,2-Dichloroethene	3.95	96	289186	23.709	ug/L	98
27) 1,2-Dichloroethane	5.17	62	3293	0.209	ug/L #	94
29) 1,1,1-Trichloroethane	4.65	97	127371	7.055	ug/L	99
31) Carbon tetrachloride	4.65	117	15256	1.044	ug/L	99
33) Benzene	5.14	78	6156	0.130	ug/L	100
34) Trichloroethene	5.95	95	31102	2.573	ug/L	98
35) Methylcyclohexane	6.11	83	17033	0.988	ug/L #	15
37) 1,2-Dichloropropane	6.12	63	8740	0.693	ug/L #	88
39) cis-1,3-Dichloropropene	7.03	75	2050	0.129	ug/L #	51

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

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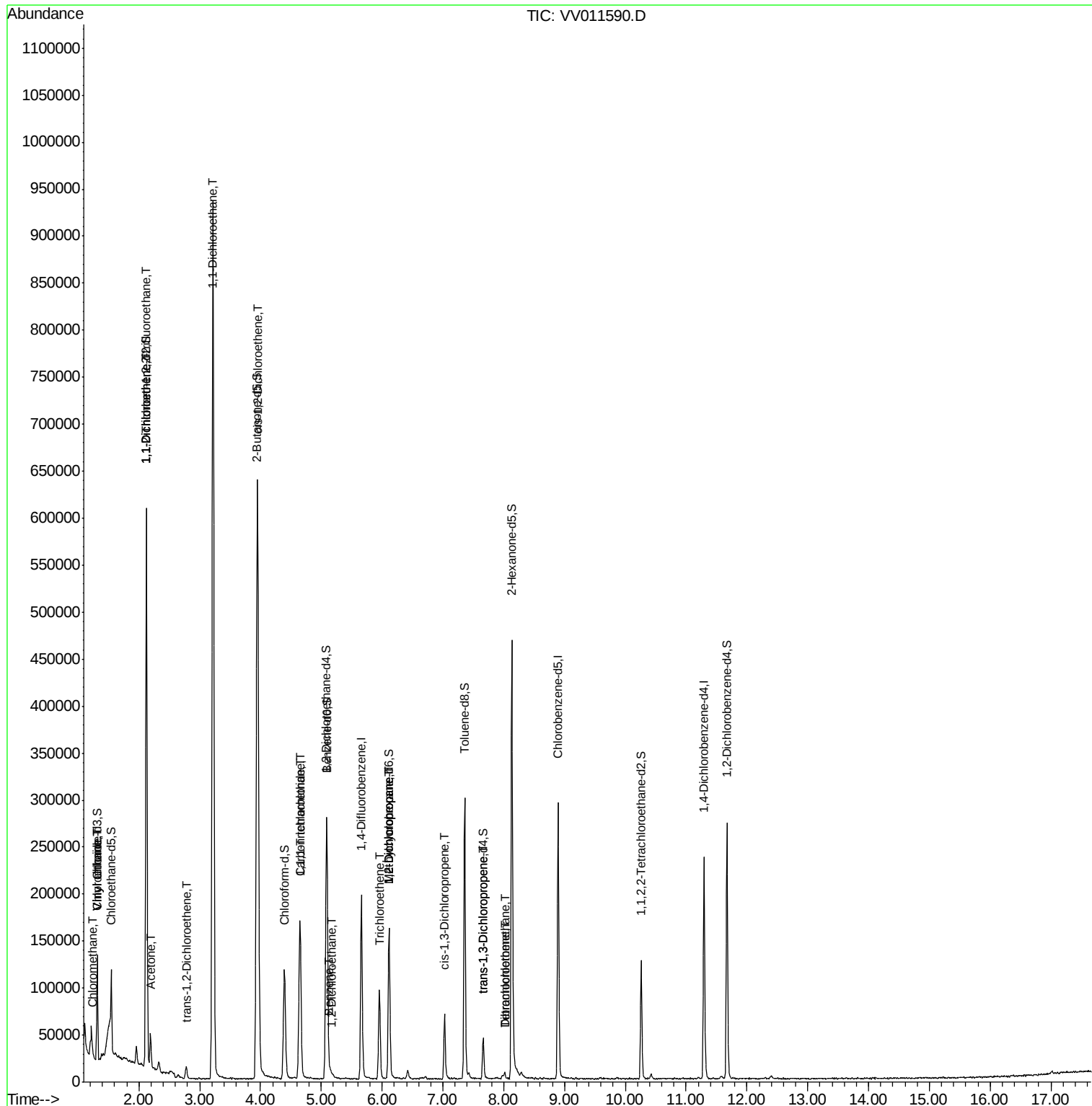
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	7.66	75	1108	0.091	ug/L #	13
47) Tetrachloroethene	8.01	164	1422	0.165	ug/L	84
49) Dibromochloromethane	8.02	129	1340	0.158	ug/L #	12

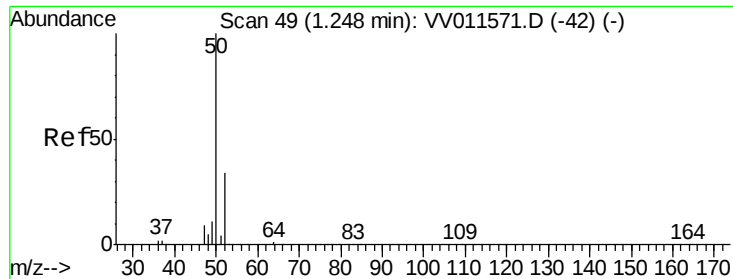
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.147 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV011590.D

Acq: 18 Jun 2019 22:05

Instrument :

MSVOA_V

ClientSampleId :

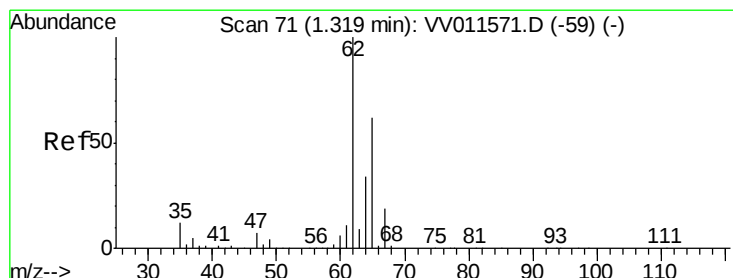
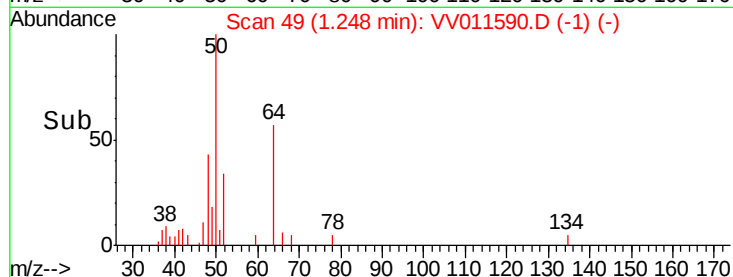
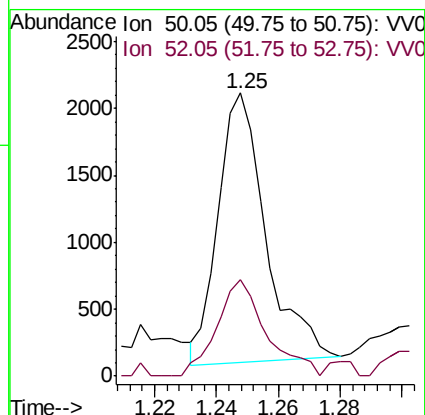
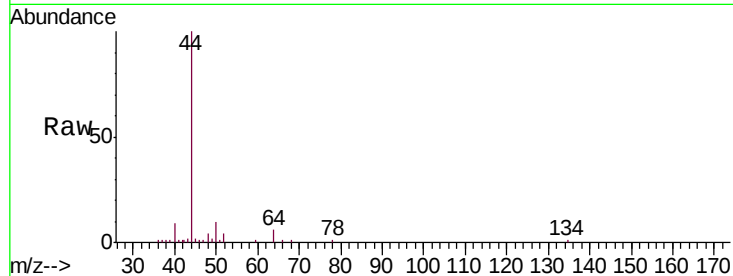
BFCQ4

Tgt Ion: 50 Resp: 2169

Ion Ratio Lower Upper

50 100

52 33.9 22.7 42.1



#5

Vinyl chloride

Concen: 0.497 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV011590.D

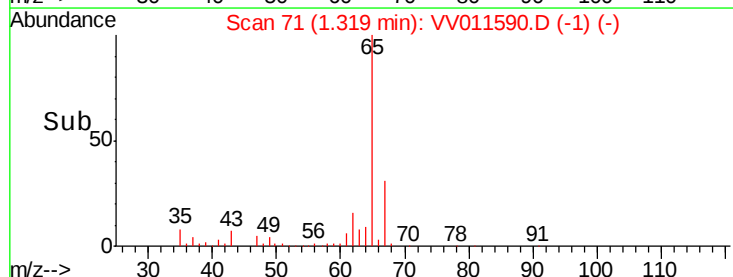
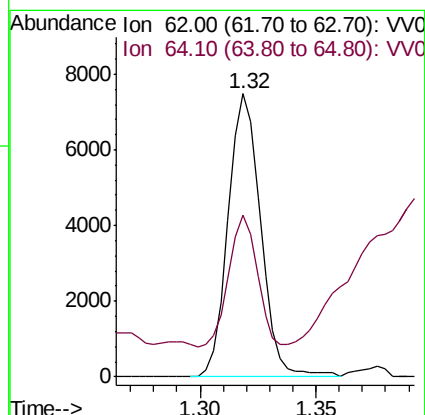
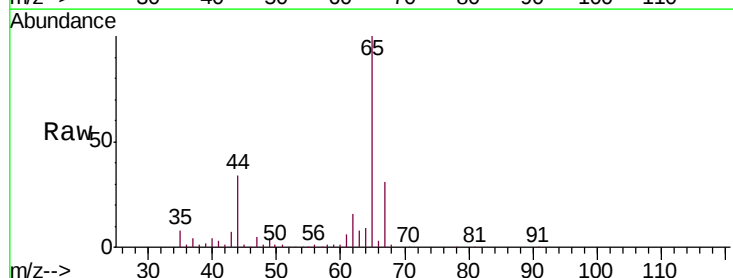
Acq: 18 Jun 2019 22:05

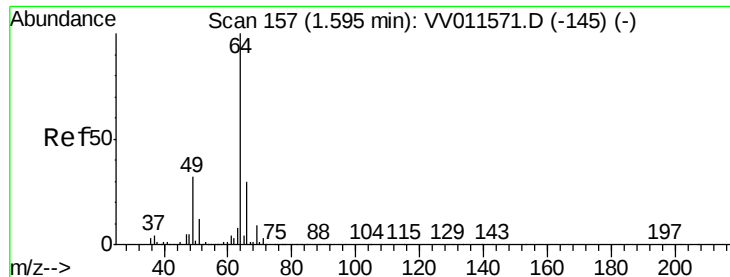
Tgt Ion: 62 Resp: 7264

Ion Ratio Lower Upper

62 100

64 57.1 23.0 42.6#





#8

Chloroethane

Concen: 0.398 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.28 min

Lab File: VV011590.D

Acq: 18 Jun 2019 22:05

Instrument :

MSVOA_V

ClientSampleId :

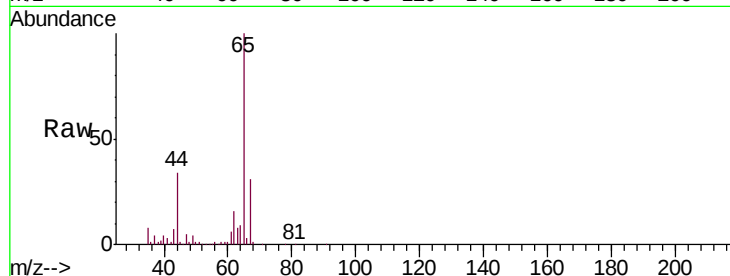
BFCQ4

Tgt Ion: 64 Resp: 2818

Ion Ratio Lower Upper

64 100

66 31.9 21.6 40.2



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

Ion 66.05 (65.75 to 66.75): VV011571.D (-145) (-)

1.32

4000

3000

2000

1000

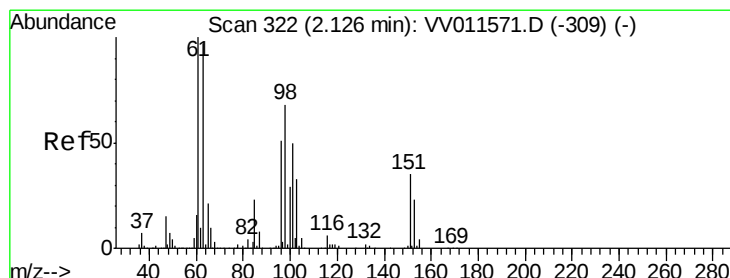
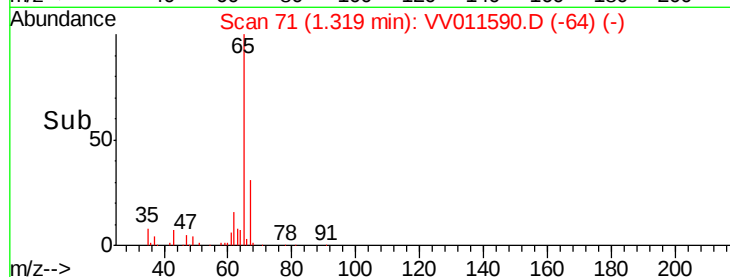
0

1.30

1.32

1.34

Time-->



#10

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

Concen: 0.209 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV011590.D

Acq: 18 Jun 2019 22:05

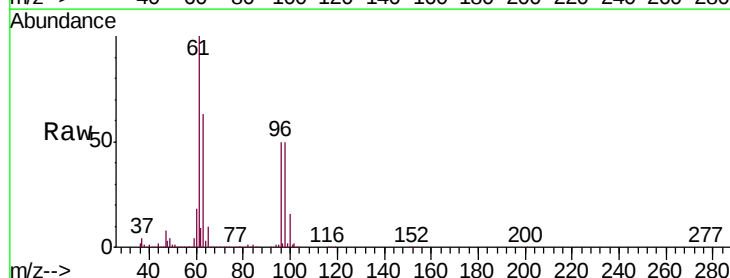
Tgt Ion: 101 Resp: 1924

Ion Ratio Lower Upper

101 100

85 39.2 37.3 55.9

151 46.0 59.4 89.2#



Abundance Ion 101.00 (100.70 to 101.70): VV011571.D (-309) (-)

Ion 85.00 (84.70 to 85.70): VV011571.D (-309) (-)

Ion 151.00 (150.70 to 151.70): VV011571.D (-309) (-)

2.12

1000

500

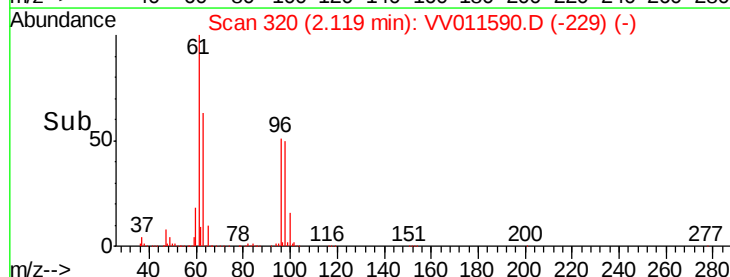
0

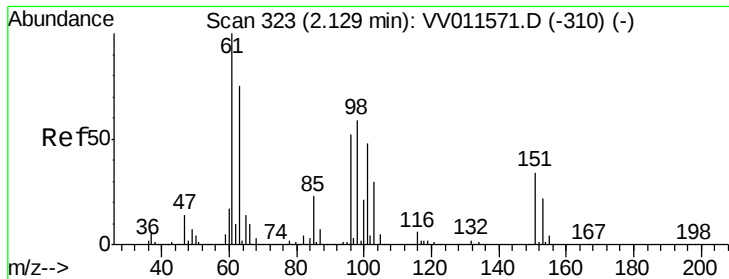
2.10

2.12

2.15

Time-->





#12

1,1-Dichloroethene

Concen: 14.666 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV011590.D

Acq: 18 Jun 2019 22:05

Instrument :

MSVOA_V

ClientSampleId :

BFCQ4

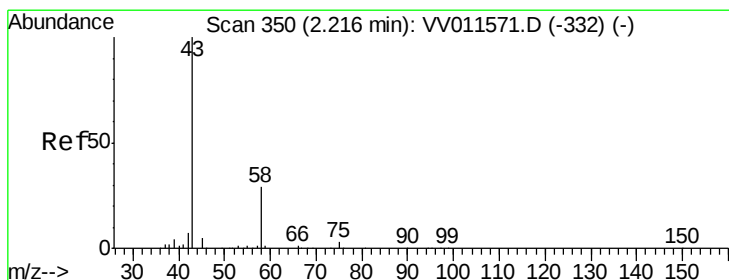
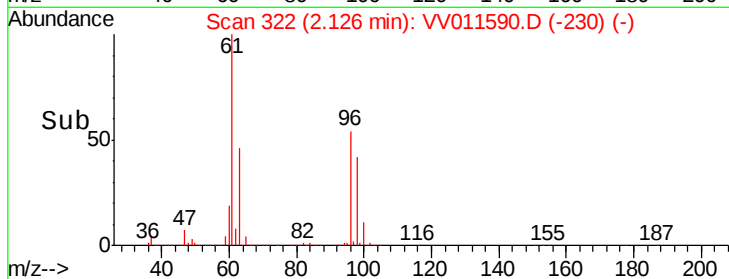
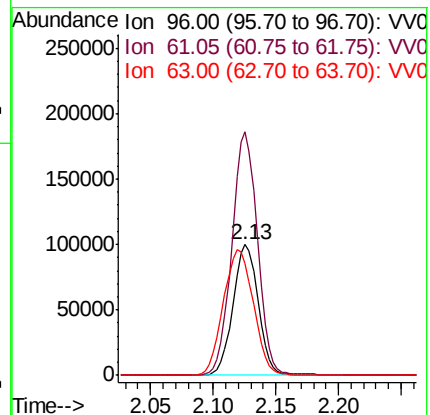
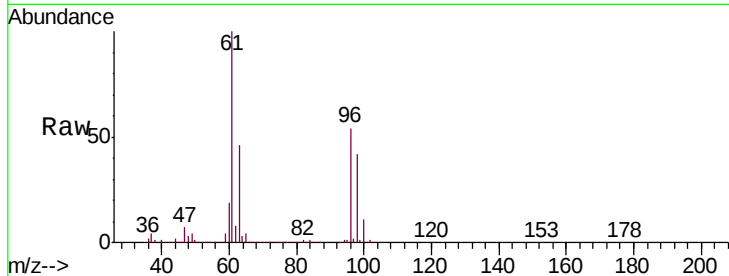
Tgt Ion: 96 Resp: 139645

Ion Ratio Lower Upper

96 100

61 186.6 135.9 252.5

63 86.0 86.2 160.2#



#13

Acetone

Concen: 2.894 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.03 min

Lab File: VV011590.D

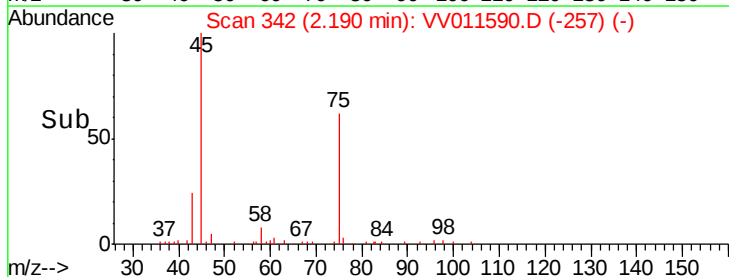
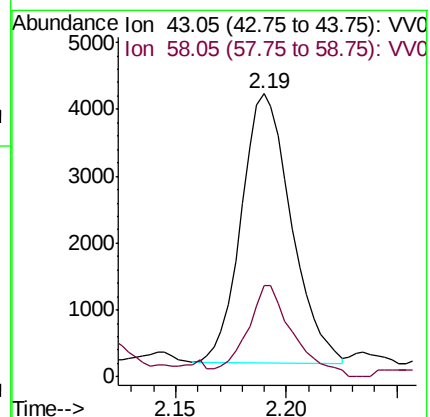
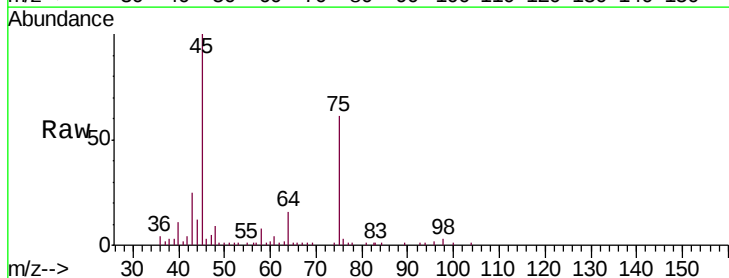
Acq: 18 Jun 2019 22:05

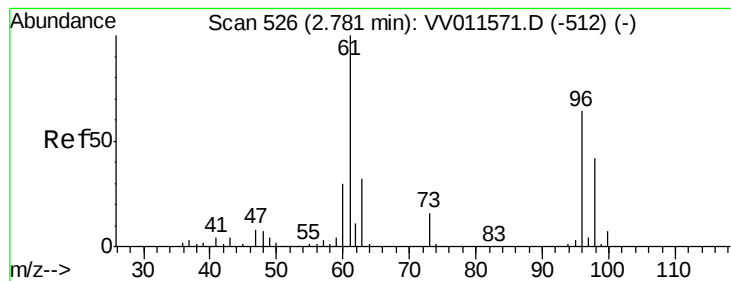
Tgt Ion: 43 Resp: 6343

Ion Ratio Lower Upper

43 100

58 31.2 0.0 57.8





#18

trans-1,2-Dichloroethene

Concen: 0.395 ug/L

RT: 2.78 min Scan# 525

Delta R.T. -0.00 min

Lab File: VV011590.D

Acq: 18 Jun 2019 22:05

Instrument :

MSVOA_V

ClientSampleId :

BFCQ4

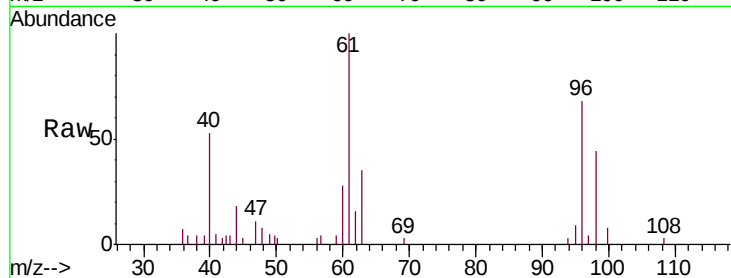
Tgt Ion: 96 Resp: 4249

Ion Ratio Lower Upper

96 100

61 146.9 110.0 204.4

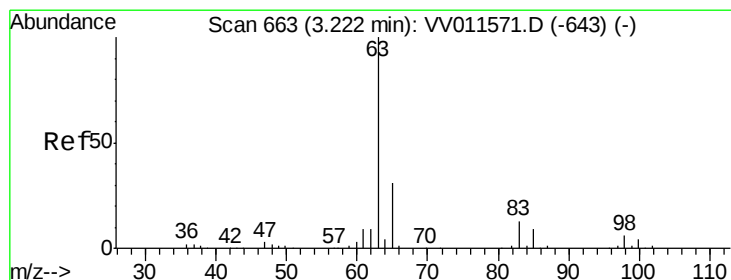
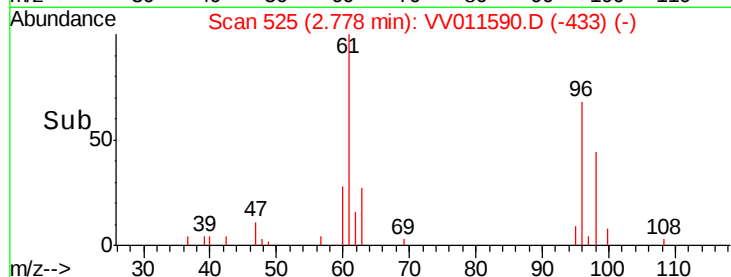
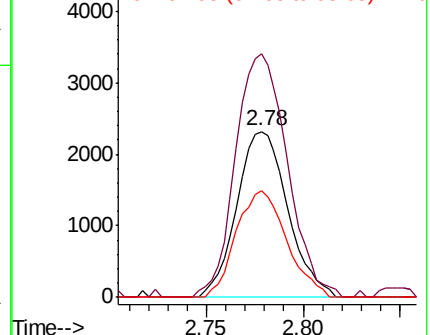
98 64.4 45.8 85.0



Abundance Ion 96.00 (95.70 to 96.70): VV011571.D (-512) (-)

Ion 61.05 (60.75 to 61.75): VV011571.D (-512) (-)

Ion 97.95 (97.65 to 98.65): VV011571.D (-512) (-)



#19

1,1-Dichloroethane

Concen: 41.042 ug/L

RT: 3.22 min Scan# 662

Delta R.T. -0.00 min

Lab File: VV011590.D

Acq: 18 Jun 2019 22:05

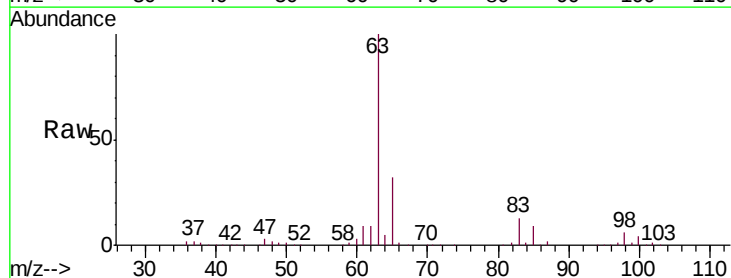
Tgt Ion: 63 Resp: 914130

Ion Ratio Lower Upper

63 100

65 31.7 22.5 41.9

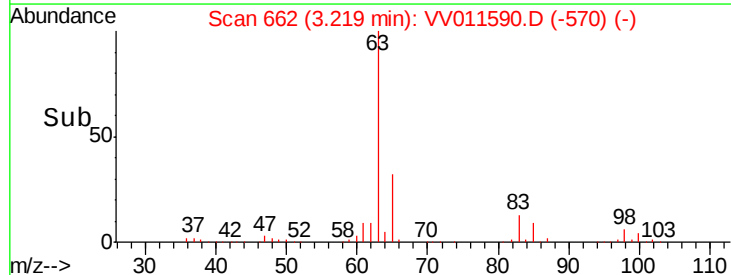
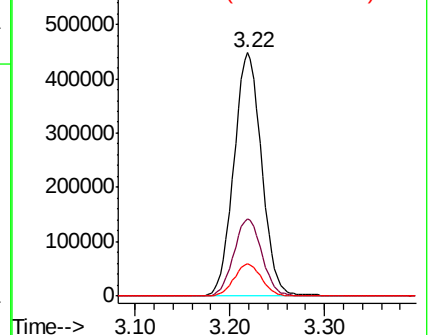
83 13.2 10.1 18.9

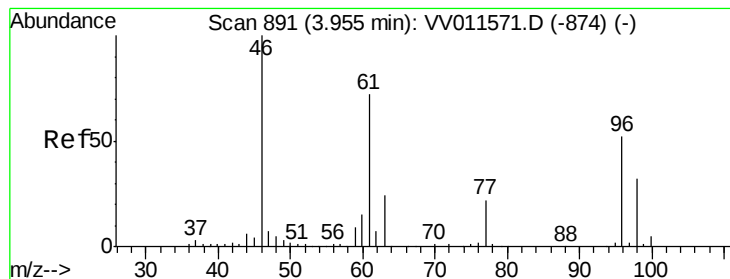


Abundance Ion 63.10 (62.80 to 63.80): VV011571.D (-643) (-)

Ion 65.10 (64.80 to 65.80): VV011571.D (-643) (-)

Ion 83.05 (82.75 to 83.75): VV011571.D (-643) (-)





#22

cis-1,2-Dichloroethene

Concen: 23.709 ug/L

RT: 3.95 min Scan# 890

Delta R.T. -0.00 min

Lab File: VV011590.D

Acq: 18 Jun 2019 22:05

Instrument :
MSVOA_V
ClientSampled :
BFCQ4

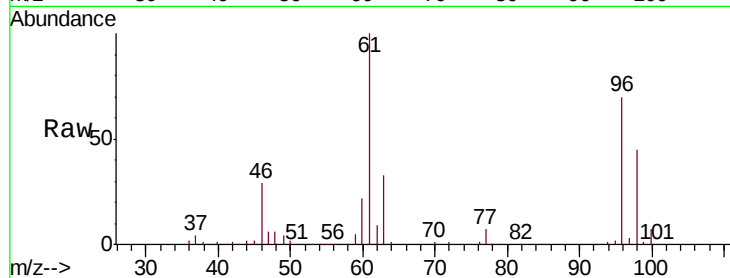
Tgt Ion: 96 Resp: 289186

Ion Ratio Lower Upper

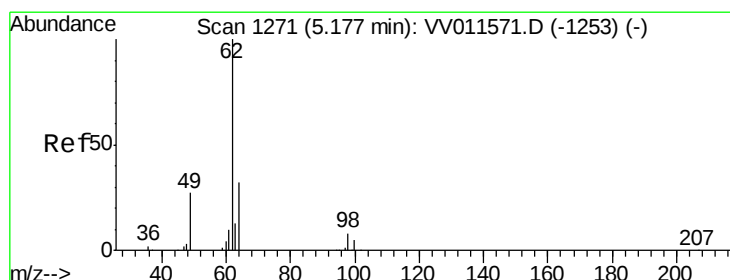
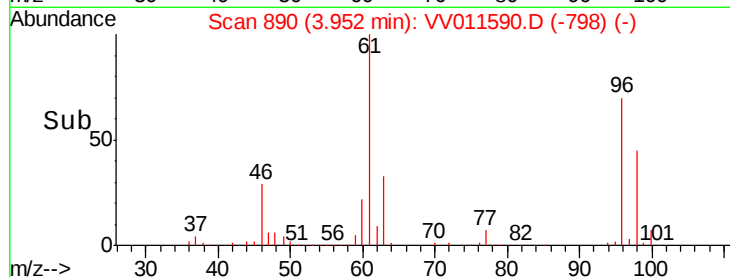
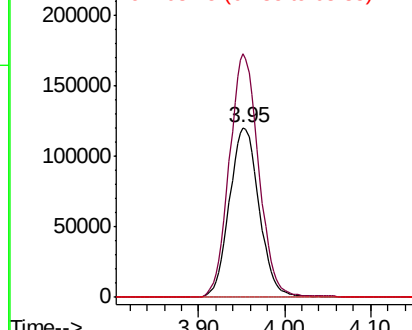
96 100

61 143.7 102.2 189.8

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



#27

1,2-Dichloroethane

Concen: 0.209 ug/L

RT: 5.17 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VV011590.D

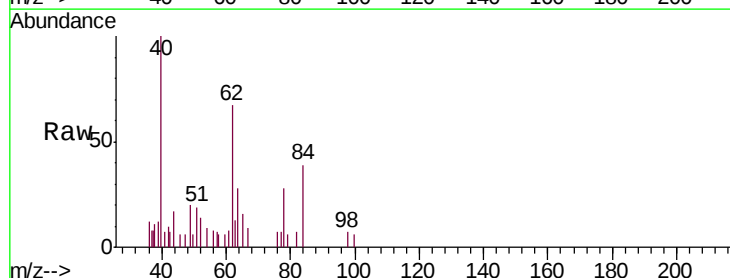
Acq: 18 Jun 2019 22:05

Tgt Ion: 62 Resp: 3293

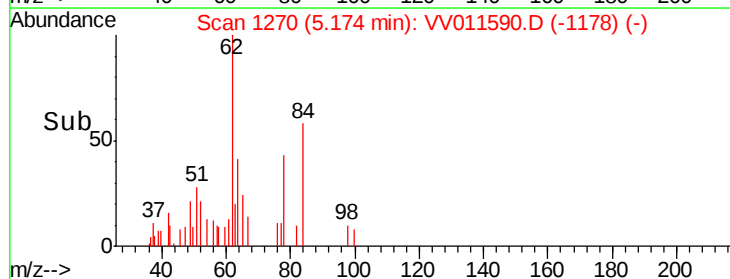
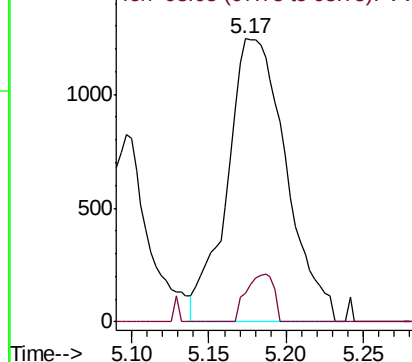
Ion Ratio Lower Upper

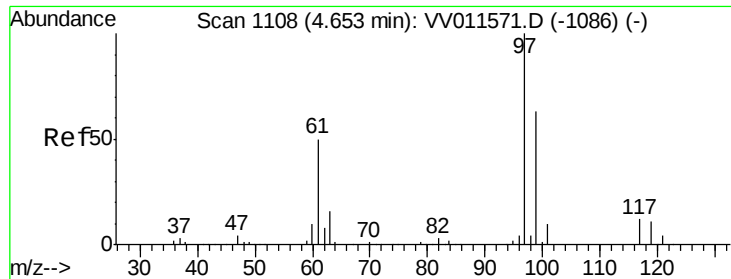
62 100

98 10.2 6.5 9.7#



Abundance Ion 62.00 (61.70 to 62.70): VV0
Ion 98.05 (97.75 to 98.75): VV0

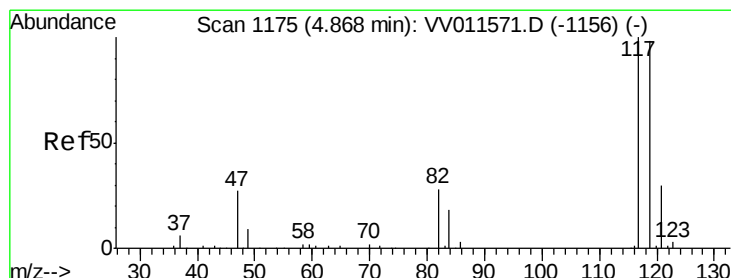
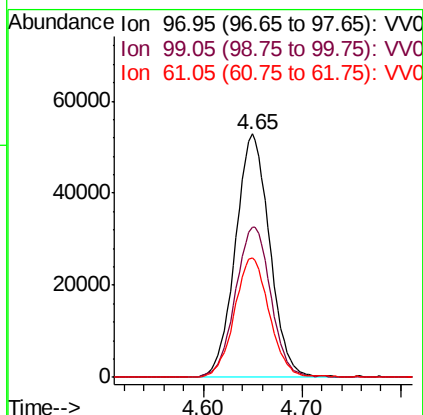
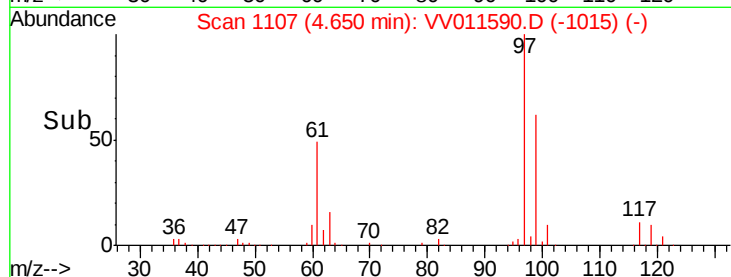
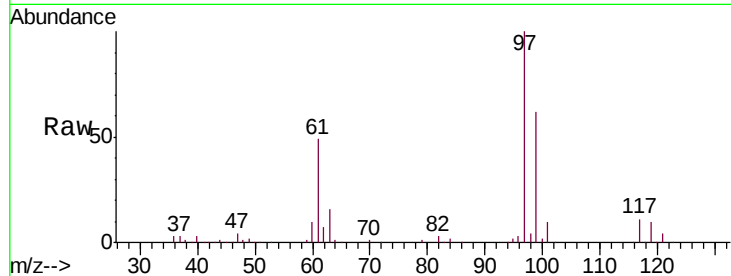




#29
1,1,1-Trichloroethane
Concen: 7.055 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VV011590.D
Acq: 18 Jun 2019 22:05

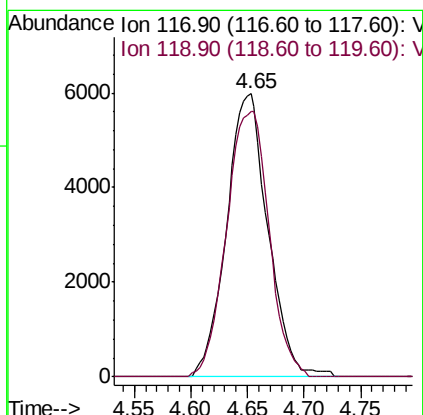
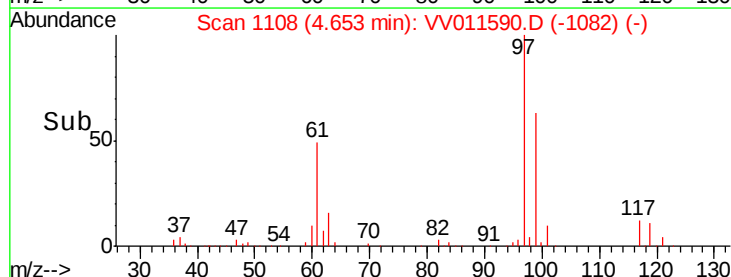
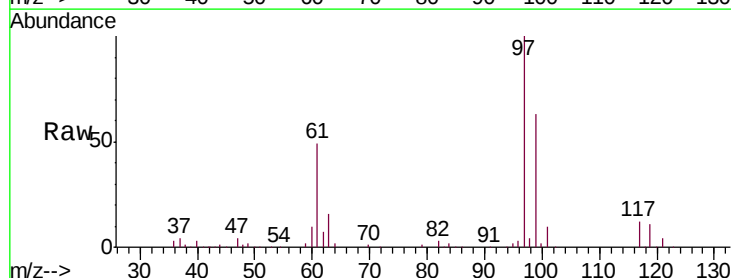
Instrument :
MSVOA_V
ClientSampled :
BFCQ4

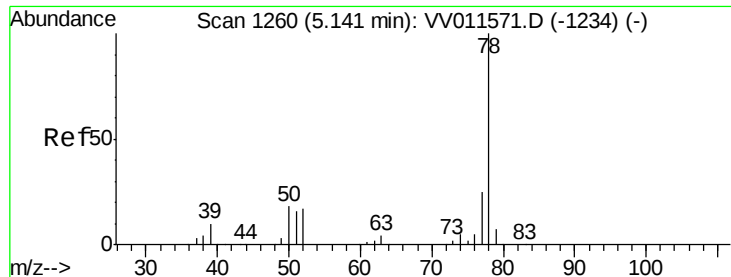
Tgt Ion: 97 Resp: 127371
Ion Ratio Lower Upper
97 100
99 63.7 51.6 77.4
61 50.1 40.4 60.6



#31
Carbon tetrachloride
Concen: 1.044 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. -0.22 min
Lab File: VV011590.D
Acq: 18 Jun 2019 22:05

Tgt Ion: 117 Resp: 15256
Ion Ratio Lower Upper
117 100
119 96.1 77.4 116.2





#33

Benzene

Concen: 0.130 ug/L

RT: 5.14 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VV011590.D

Acq: 18 Jun 2019 22:05

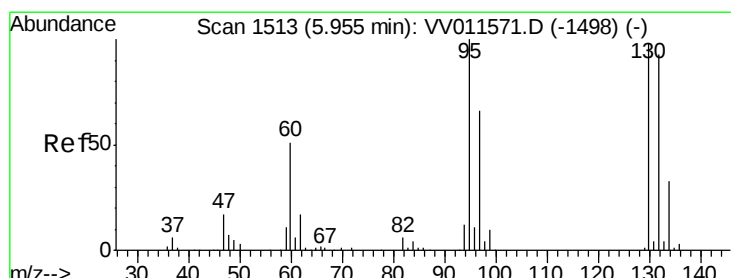
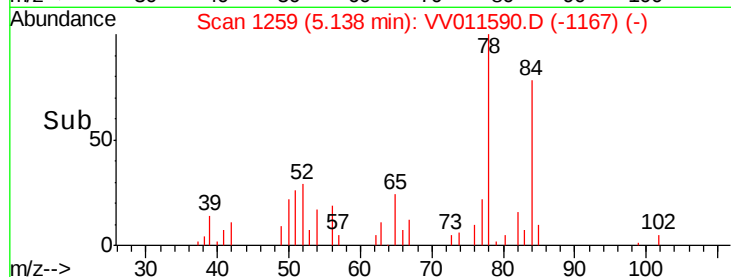
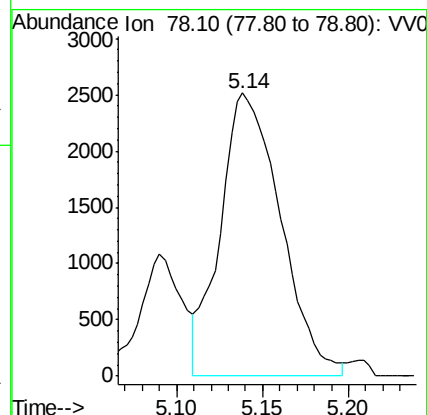
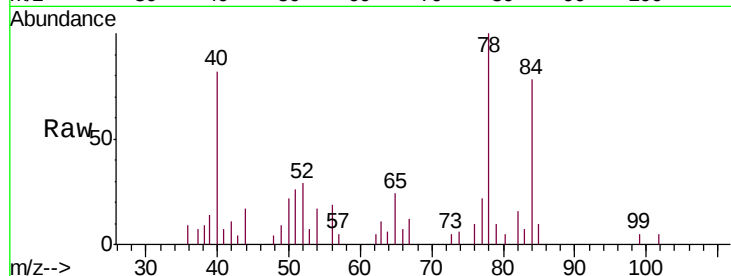
Instrument :

MSVOA_V

ClientSampleId :

BFCQ4

Tgt Ion: 78 Resp: 6156



#34

Trichloroethene

Concen: 2.573 ug/L

RT: 5.95 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV011590.D

Acq: 18 Jun 2019 22:05

Tgt Ion: 95 Resp: 31102

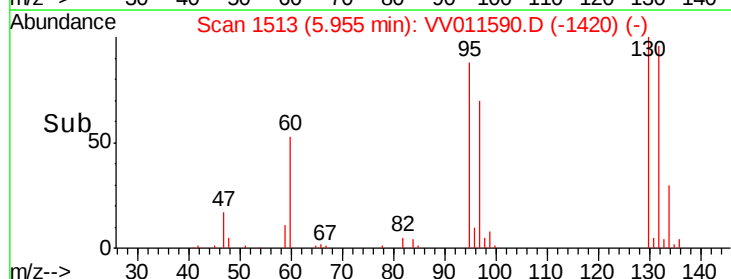
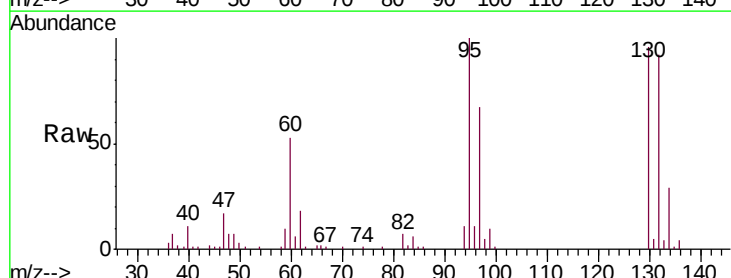
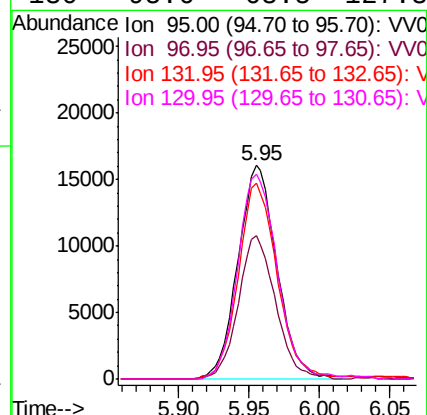
Ion	Ratio	Lower	Upper
95	100		
97	66.9	44.4	82.4
132	91.8	63.5	117.9
130	95.6	68.5	127.3

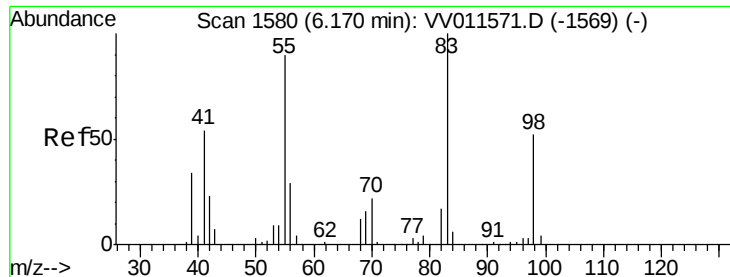
95 100

97 66.9 44.4 82.4

132 91.8 63.5 117.9

130 95.6 68.5 127.3

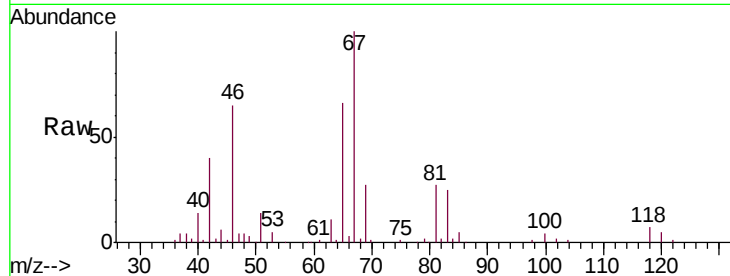




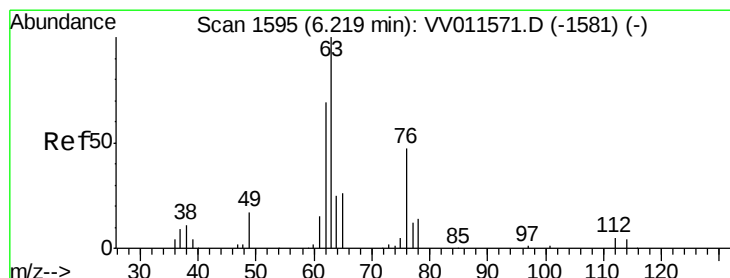
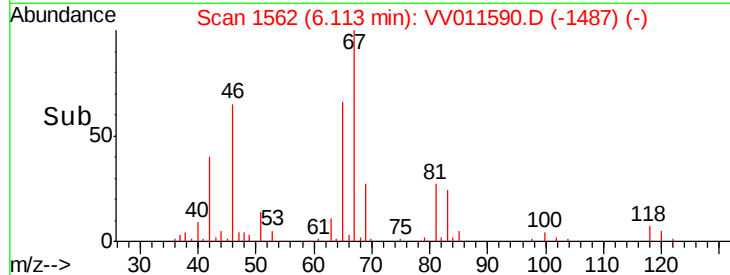
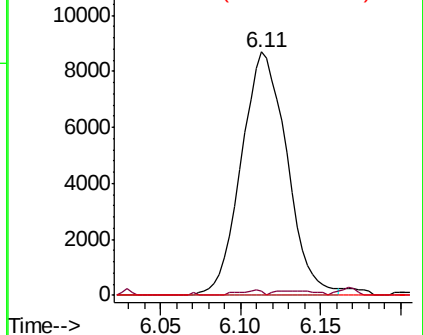
#35
Methylcyclohexane
Concen: 0.988 ug/L
RT: 6.11 min Scan# 1562
Delta R.T. -0.06 min
Lab File: VV011590.D
Acq: 18 Jun 2019 22:05

Instrument :
MSVOA_V
ClientSampleId :
BFCQ4

Tgt Ion: 83 Resp: 17033
Ion Ratio Lower Upper
83 100
55 1.1 67.9 101.9#
98 0.0 39.6 59.4#

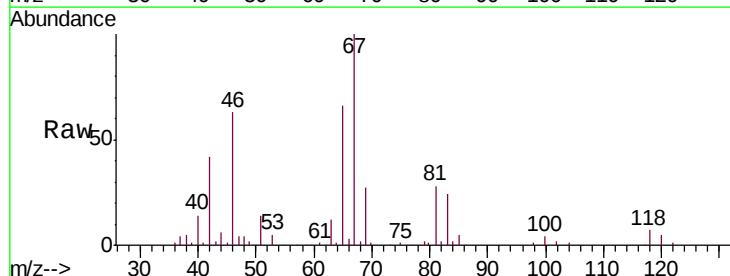


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

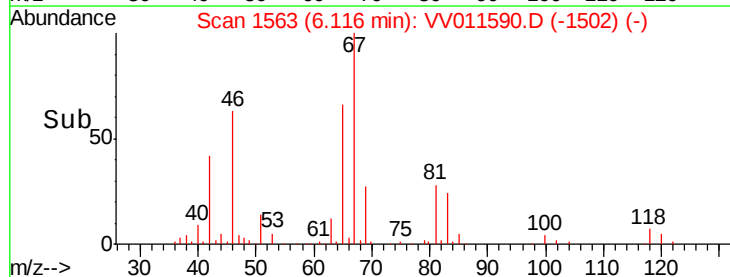
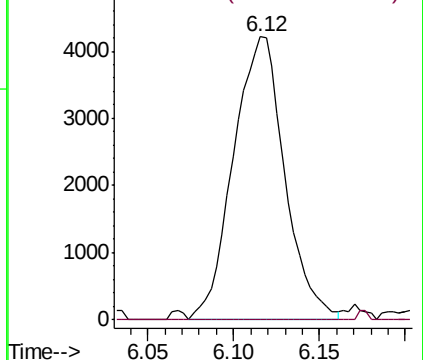


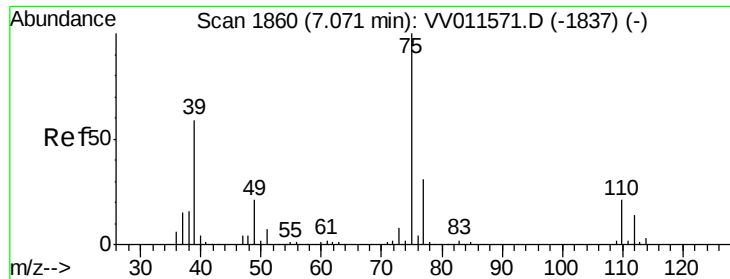
#37
1,2-Dichloropropane
Concen: 0.693 ug/L
RT: 6.12 min Scan# 1563
Delta R.T. -0.10 min
Lab File: VV011590.D
Acq: 18 Jun 2019 22:05

Tgt Ion: 63 Resp: 8740
Ion Ratio Lower Upper
63 100
112 0.6 3.7 5.5#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V

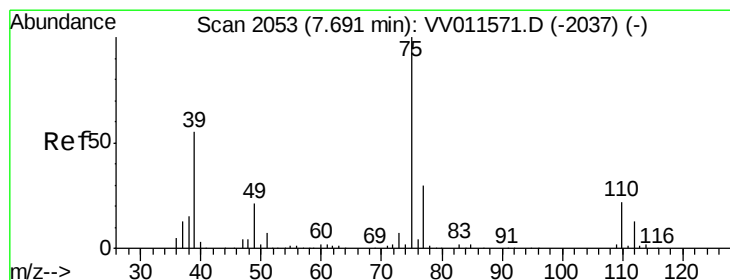
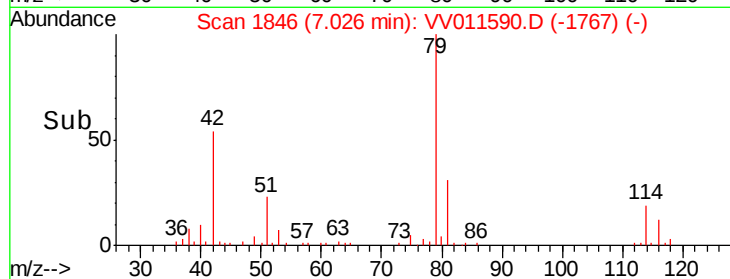
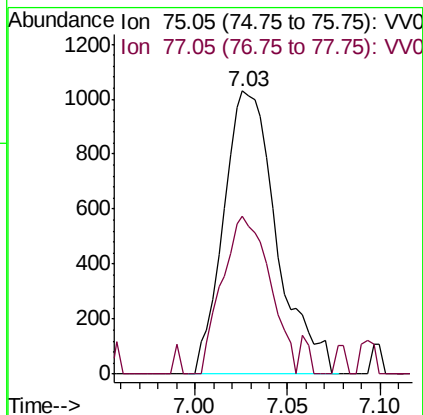
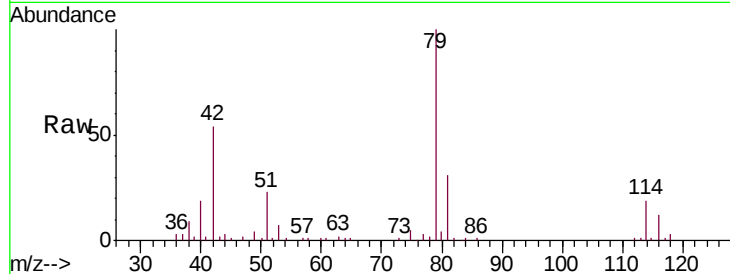




#39
 cis-1,3-Dichloropropene
 Concen: 0.129 ug/L
 RT: 7.03 min Scan# 1846
 Delta R.T. -0.05 min
 Lab File: VV011590.D
 Acq: 18 Jun 2019 22:05

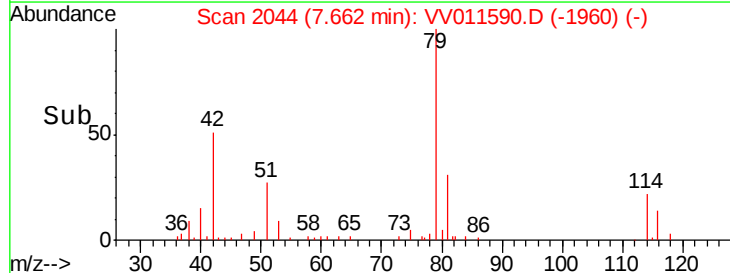
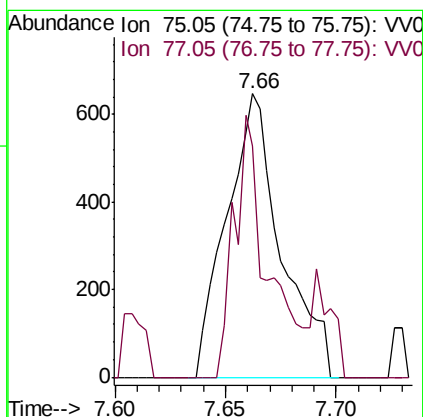
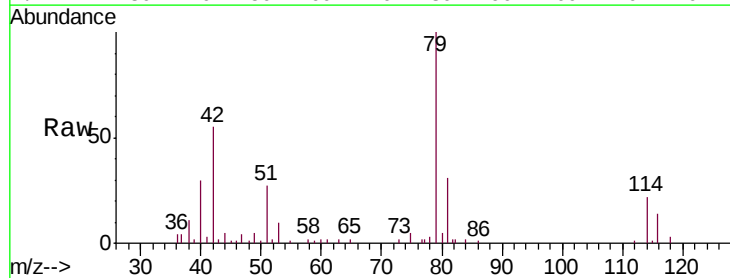
Instrument :
 MSVOA_V
 ClientSampleId :
 BFCQ4

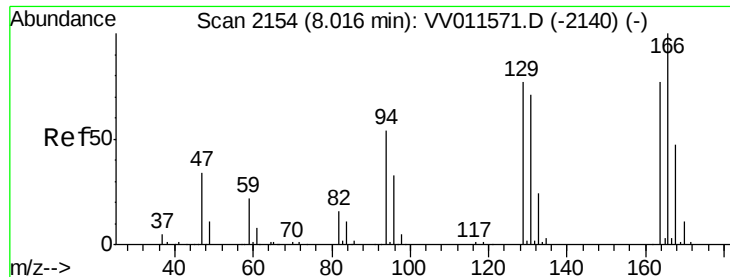
Tgt Ion: 75 Resp: 2050
 Ion Ratio Lower Upper
 75 100
 77 55.8 20.6 38.4#



#44
 trans-1,3-Dichloropropene
 Concen: 0.091 ug/L
 RT: 7.66 min Scan# 2044
 Delta R.T. -0.03 min
 Lab File: VV011590.D
 Acq: 18 Jun 2019 22:05

Tgt Ion: 75 Resp: 1108
 Ion Ratio Lower Upper
 75 100
 77 81.5 22.8 42.4#





#47

Tetrachloroethene

Concen: 0.165 ug/L

RT: 8.01 min Scan# 2153

Delta R.T. -0.00 min

Lab File: VV011590.D

Acq: 18 Jun 2019 22:05

Instrument :

MSVOA_V

ClientSampleId :

BFCQ4

Tgt Ion:164 Resp: 1422

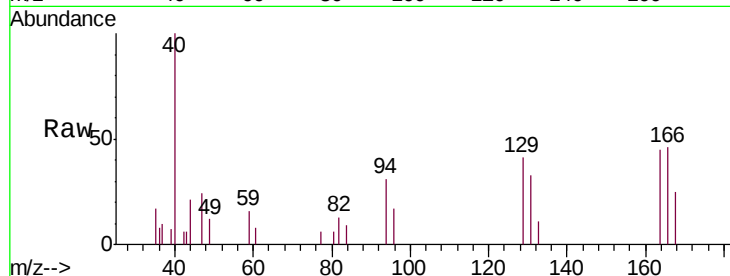
Ion Ratio Lower Upper

164 100

129 89.8 68.8 127.8

131 72.4 63.2 117.4

166 101.3 87.0 161.6

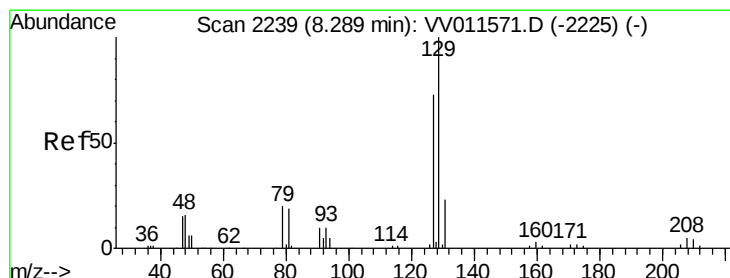
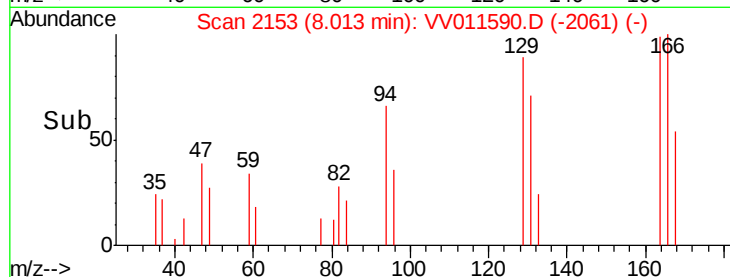
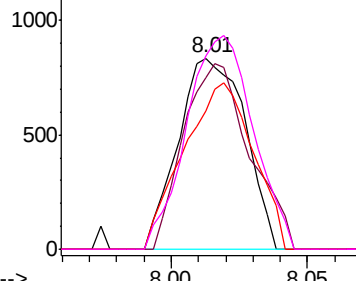


Abundance Ion 163.90 (163.60 to 164.60): V

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



#49

Dibromochloromethane

Concen: 0.158 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.27 min

Lab File: VV011590.D

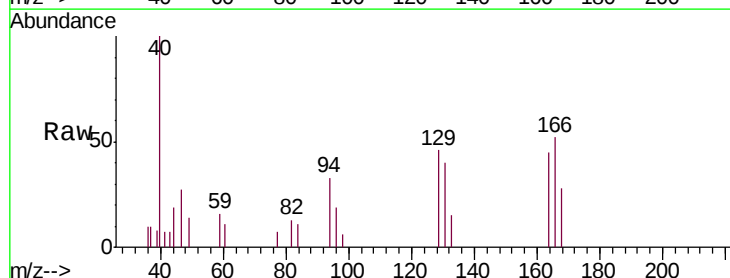
Acq: 18 Jun 2019 22:05

Tgt Ion:129 Resp: 1340

Ion Ratio Lower Upper

129 100

127 0.0 52.6 97.6#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

