

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052720\
 Data File : VV016235.D
 Acq On : 27 May 2020 18:05
 Operator : SY/MD
 Sample : L2754-17
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 28 01:25:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 28 01:17:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	89977	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	88316	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	39160	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	25813	4.47	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.40%
7) Chloroethane-d5	1.58	69	22922	4.52	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.40%
11) 1,1-Dichloroethene-d2	2.13	63	36166	3.33	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	66.60%
20) 2-Butanone-d5	3.94	46	73120	51.01	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.02%
24) Chloroform-d	4.38	84	51067	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.80%
26) 1,2-Dichloroethane-d4	5.06	65	28611	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%
32) Benzene-d6	5.08	84	101657	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.00%
36) 1,2-Dichloropropane-d6	6.10	67	32318	4.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.40%
41) Toluene-d8	7.34	98	89945	4.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.20%
45) trans-1,3-Dichloropropene-	7.65	79	10691	4.24	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.80%
48) 2-Hexanone-d5	8.12	63	51729	44.71	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.42%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	22037	4.41	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.20%
65) 1,2-Dichlorobenzene-d4	11.65	152	31300	4.79	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	3352	0.425	ug/L	88
12) 1,1-Dichloroethene	2.13	96	531	0.100	ug/L #	1
14) Carbon disulfide	2.31	76	665	0.040	ug/L #	75
18) trans-1,2-Dichloroethene	2.78	96	11908	2.050	ug/L	94
22) cis-1,2-Dichloroethene	3.94	96	153351	22.326	ug/L	98
25) Chloroform	4.41	83	2048	0.175	ug/L	89
27) 1,2-Dichloroethane	5.08	62	659	0.086	ug/L #	79
33) Benzene	5.13	78	2170	0.085	ug/L	100
34) Trichloroethene	5.94	95	182440	27.556	ug/L	97
35) Methylcyclohexane	6.10	83	7903	0.708	ug/L #	17
37) 1,2-Dichloropropane	6.10	63	3951	0.634	ug/L #	88
39) cis-1,3-Dichloropropene	7.01	75	821	0.093	ug/L #	83
46) trans-1,3-Dichloropropene	7.64	75	593	0.081	ug/L	84
47) 1,1,2-Trichloroethane	8.00	97	5818	1.419	ug/L #	9
49) Tetrachloroethene	8.00	164	535029	112.561	ug/L	97
50) 2-Hexanone	8.12	43	6902	2.552	ug/L #	74
51) Dibromochloromethane	8.00	129	530349	122.134	ug/L #	10

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QLast Update : Thu May 28 01:17:22 2020
Response via : Initial Calibration

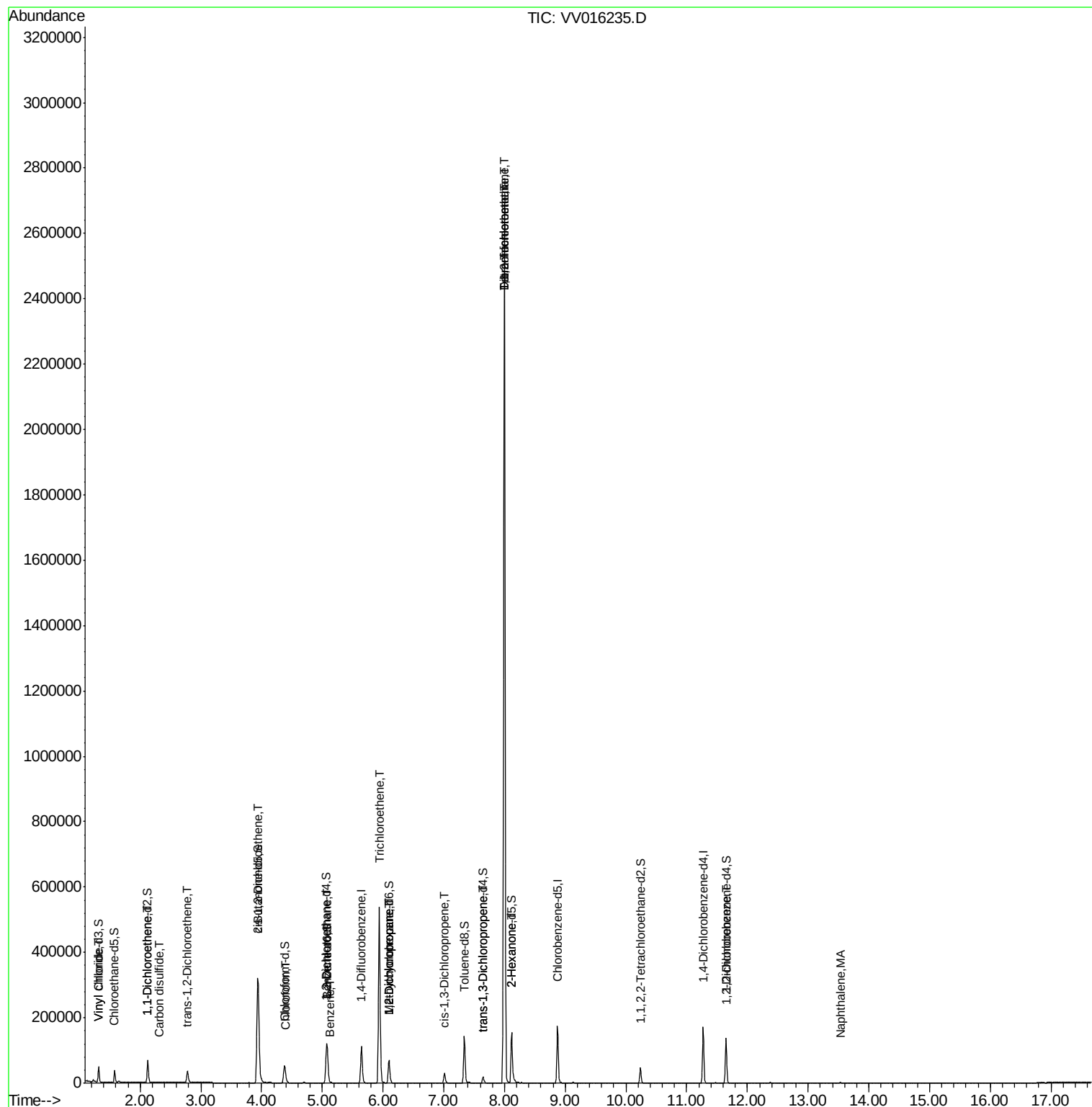
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 1,2-Dichlorobenzene	11.67	146	829	0.077	ug/L #	81
70) Naphthalene	13.53	128	1844	0.114	ug/L #	93

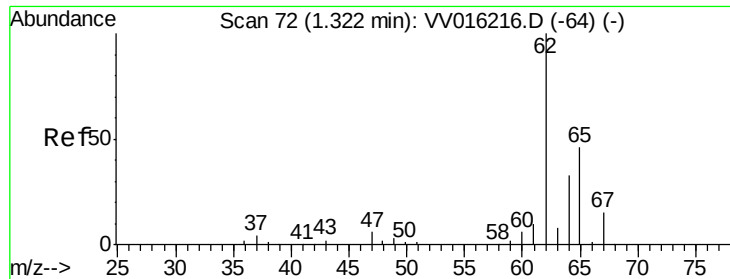
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.425 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV016235.D

Acq: 27 May 2020 18:05

Instrument :

MSVOA_V

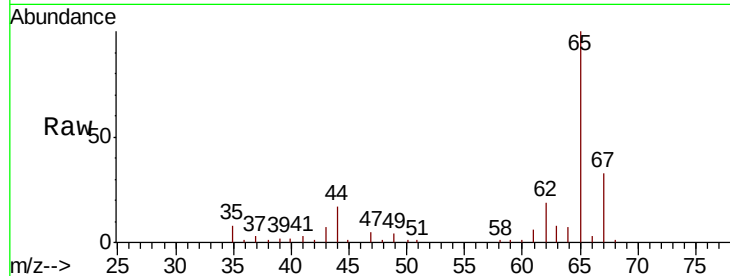
ClientSampled :

Tot Ion: 62 Resp: 3352

Ion Ratio Lower Upper

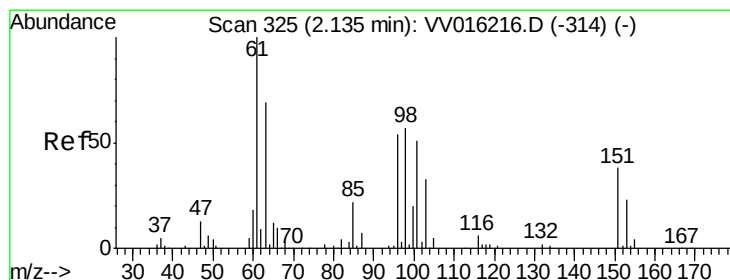
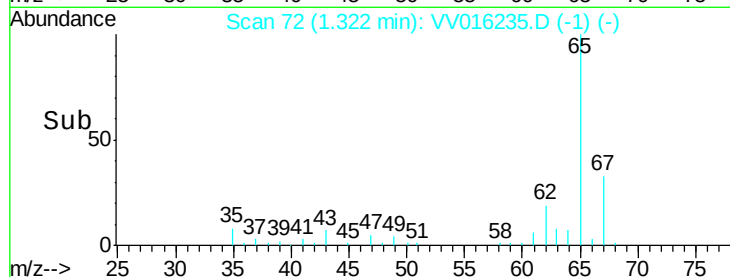
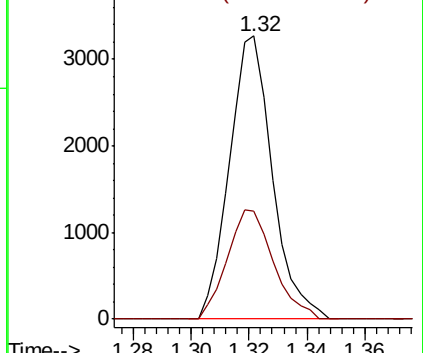
62 100

64 38.1 22.1 41.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#12

1,1-Dichloroethene

Concen: 0.100 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV016235.D

Acq: 27 May 2020 18:05

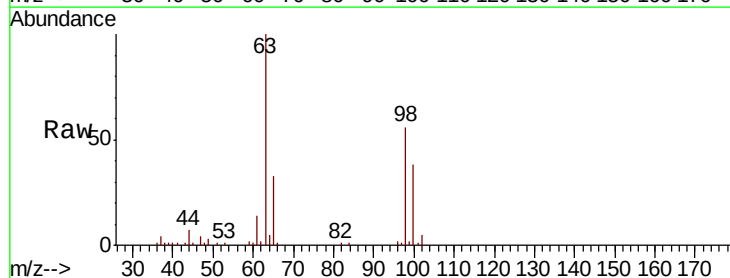
Tgt Ion: 96 Resp: 531

Ion Ratio Lower Upper

96 100

61 803.8 124.9 231.9#

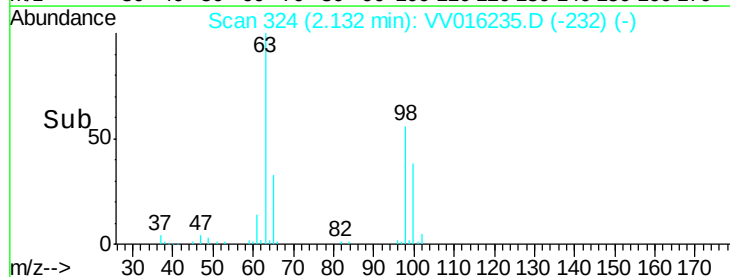
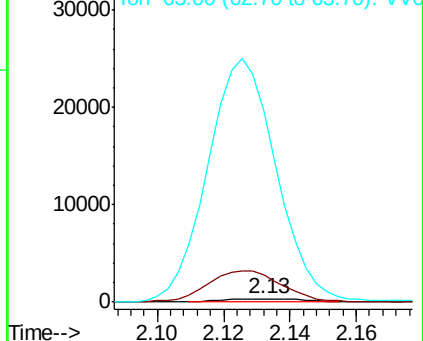
63 5738.0 80.4 149.2#

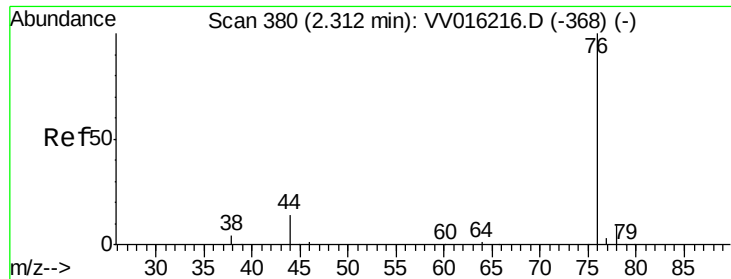


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#14

Carbon disulfide

Concen: 0.040 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV016235.D

Acq: 27 May 2020 18:05

Instrument :

MSVOA_V

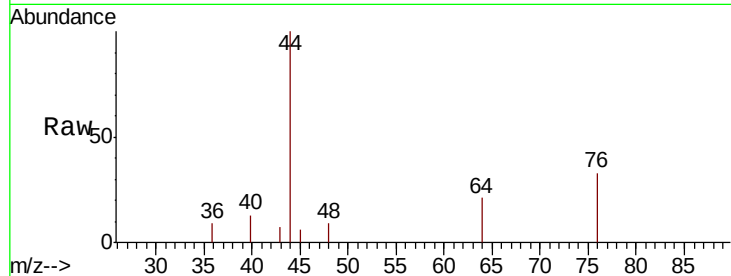
ClientSampleId :

Tot Ion: 76 Resp: 665

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.31

500

400

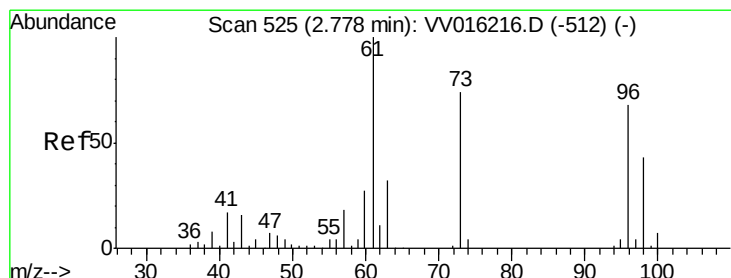
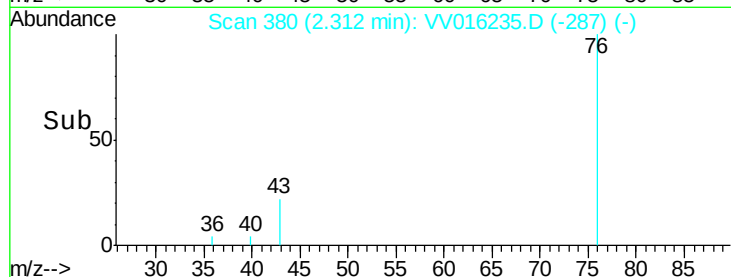
300

200

100

0

Time-->



#18

trans-1,2-Dichloroethene

Concen: 2.050 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV016235.D

Acq: 27 May 2020 18:05

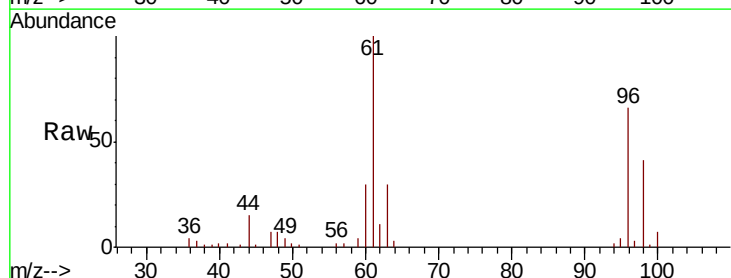
Tgt Ion: 96 Resp: 11908

Ion Ratio Lower Upper

96 100

61 152.1 99.8 185.4

98 62.3 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

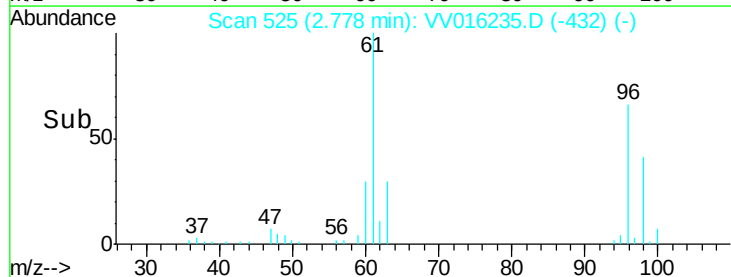
Ion 97.95 (97.65 to 98.65): VV0

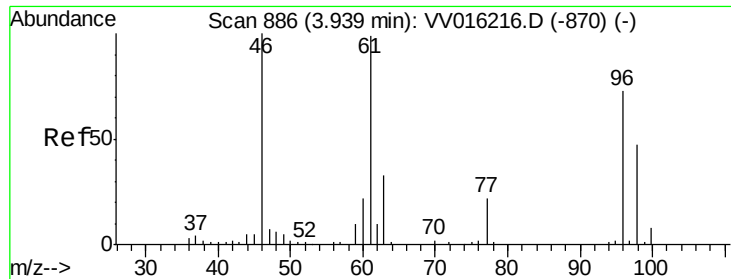
10000

5000

0

Time-->

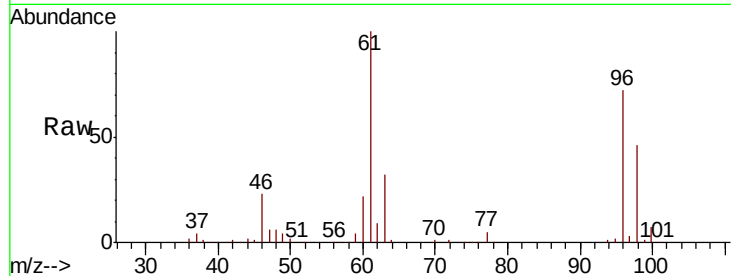




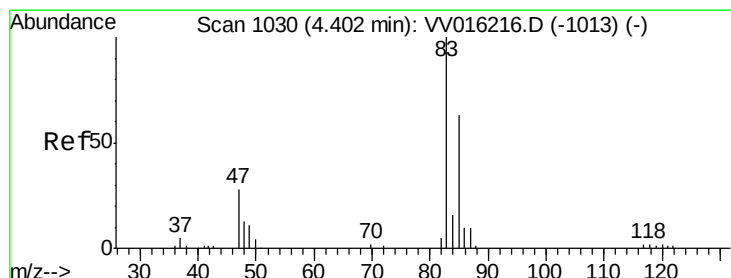
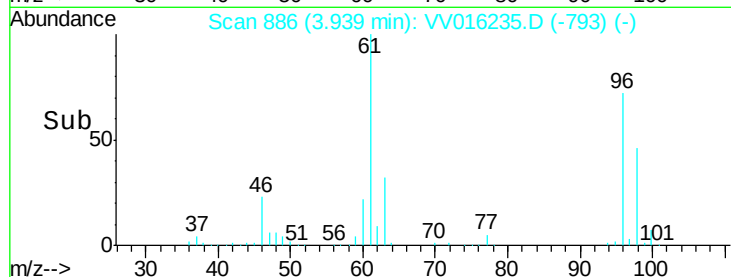
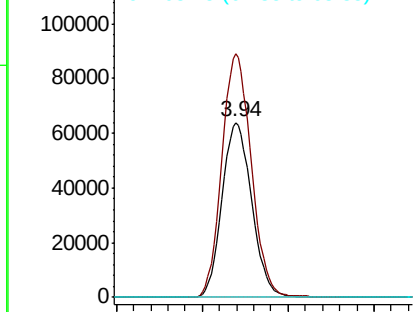
#22
 cis-1,2-Dichloroethene
 Concen: 22.326 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV016235.D
 Acq: 27 May 2020 18:05

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 96 Resp: 153351
 Ion Ratio Lower Upper
 96 100
 61 139.3 99.7 185.1
 68 0.0 0.0 0.0

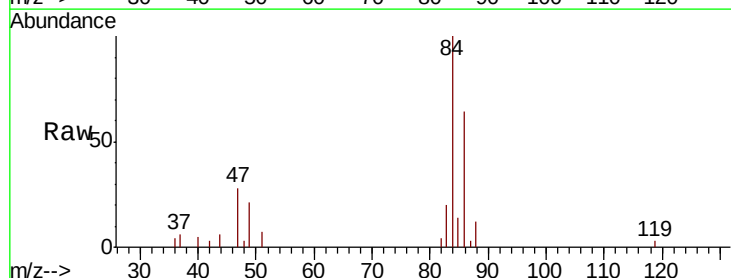


Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0

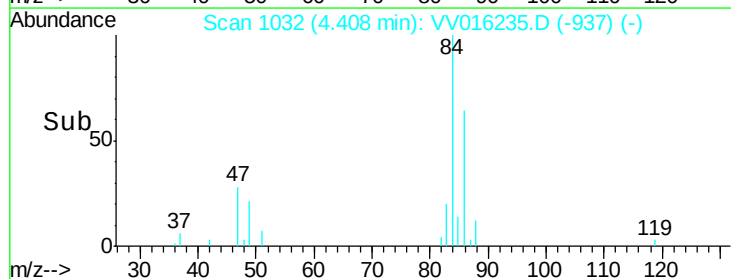
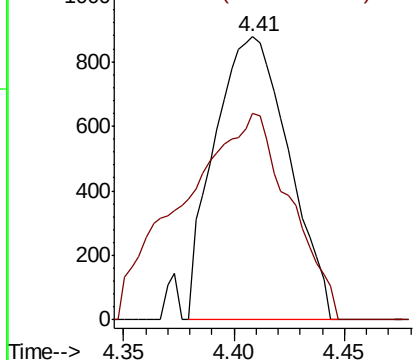


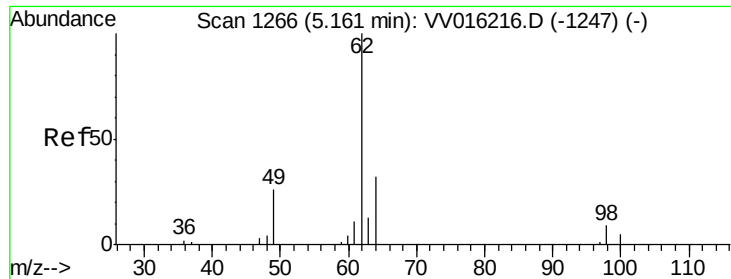
#25
 Chloroform
 Concen: 0.175 ug/L
 RT: 4.41 min Scan# 1032
 Delta R.T. 0.01 min
 Lab File: VV016235.D
 Acq: 27 May 2020 18:05

Tgt Ion: 83 Resp: 2048
 Ion Ratio Lower Upper
 83 100
 85 72.9 45.1 83.7



Abundance Ion 83.05 (82.75 to 83.75): VV0
 Ion 85.00 (84.70 to 85.70): VV0

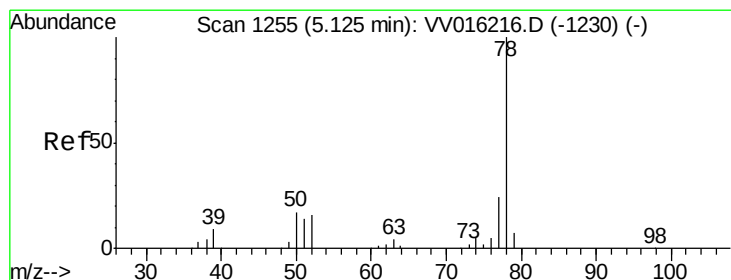
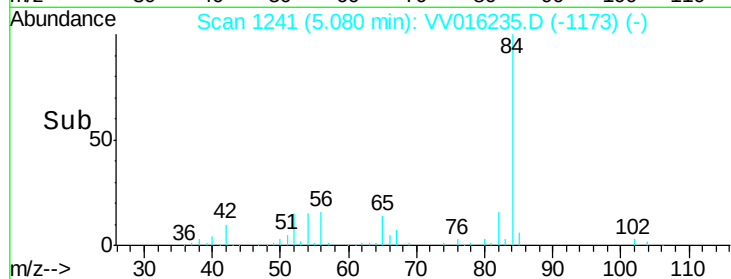
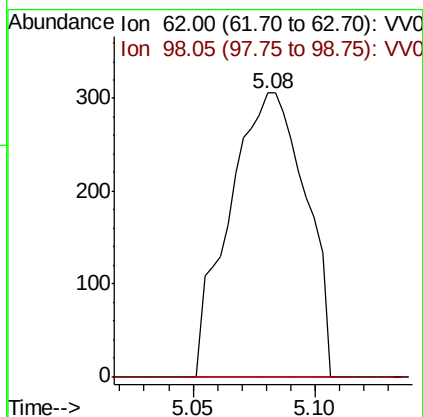
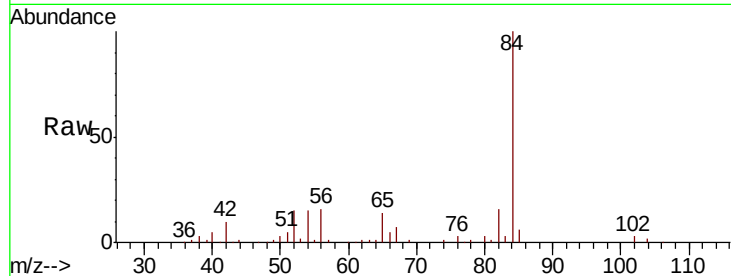




#27
1,2-Dichloroethane
Concen: 0.086 ug/L
RT: 5.08 min Scan# 1241
Delta R.T. -0.08 min
Lab File: VV016235.D
Acq: 27 May 2020 18:05

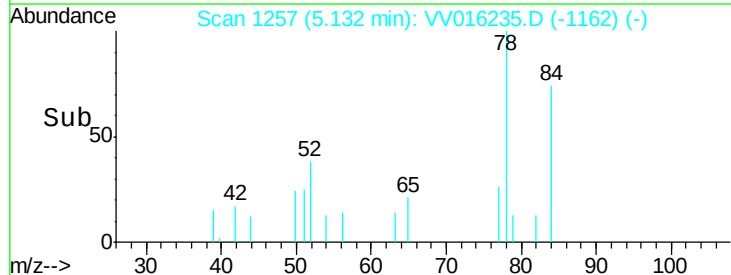
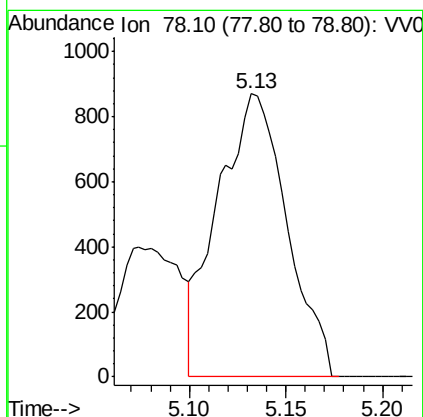
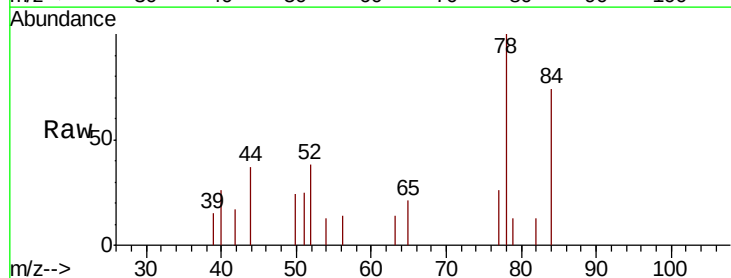
Instrument :
MSVOA_V
ClientSampled :

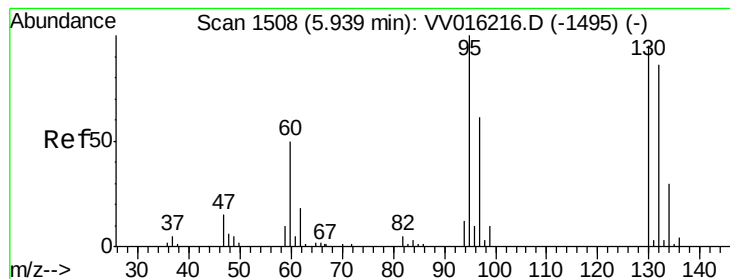
Tot Ion: 62 Resp: 659
Ion Ratio Lower Upper
62 100
98 0.0 5.7 8.5#



#33
Benzene
Concen: 0.085 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. 0.01 min
Lab File: VV016235.D
Acq: 27 May 2020 18:05

Tgt Ion: 78 Resp: 2170





#34

Trichloroethene

Concen: 27.556 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. -0.00 min

Lab File: VV016235.D

Acq: 27 May 2020 18:05

Instrument :

MSVOA_V

ClientSampled :

Tot Ion: 95 Resp: 182440

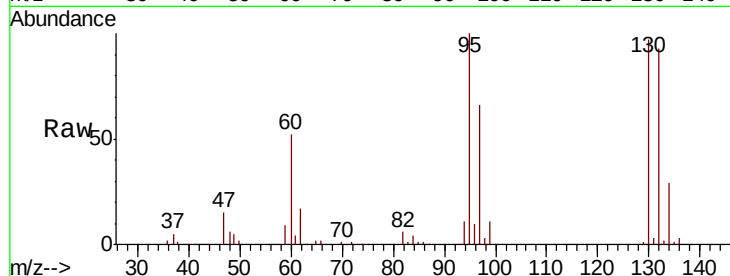
Ion Ratio Lower Upper

95 100

97 65.9 43.6 81.0

132 92.6 63.9 118.7

130 96.8 65.2 121.0

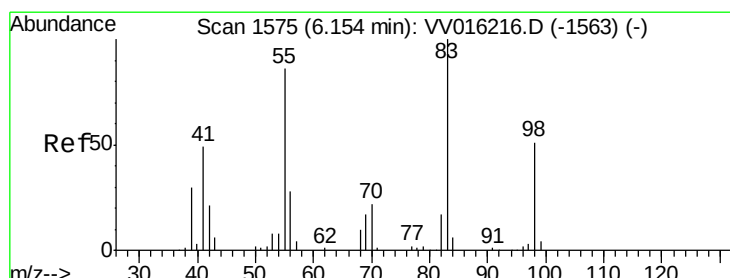
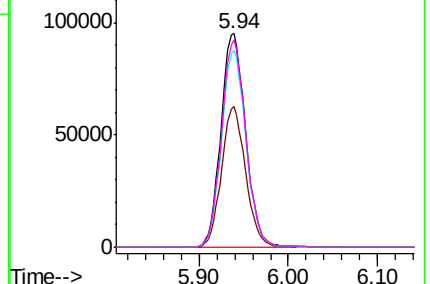
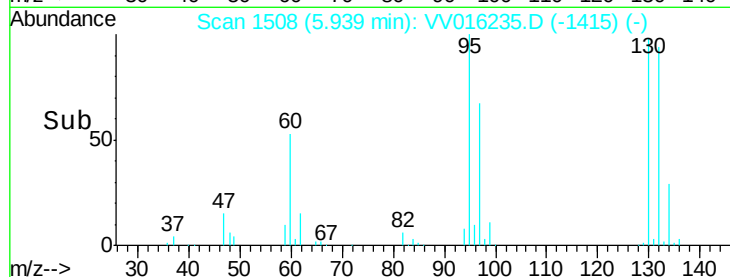


Abundance Ion 95.00 (94.70 to 95.70): VV016235.D (-1415) (-)

Ion 96.95 (96.65 to 97.65): VV016235.D (-1415) (-)

Ion 131.95 (131.65 to 132.65): VV016235.D (-1415) (-)

Ion 129.95 (129.65 to 130.65): VV016235.D (-1415) (-)



#35

Methylcyclohexane

Concen: 0.708 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.06 min

Lab File: VV016235.D

Acq: 27 May 2020 18:05

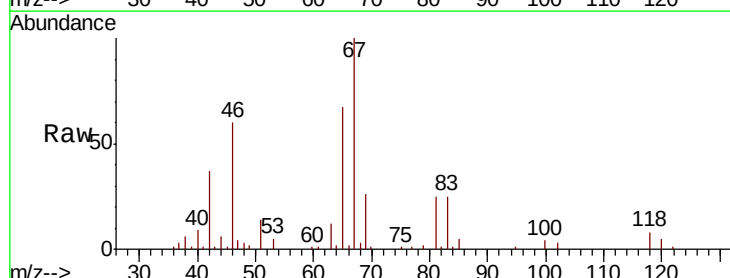
Tgt Ion: 83 Resp: 7903

Ion Ratio Lower Upper

83 100

55 0.0 65.4 98.0#

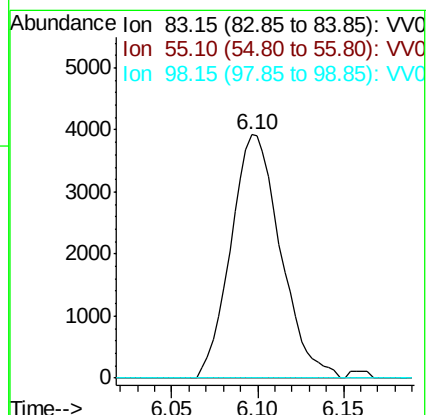
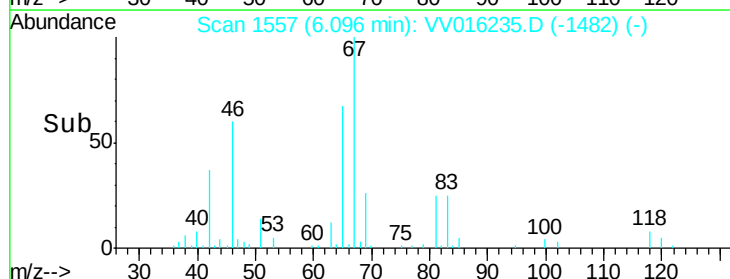
98 2.3 39.3 58.9#

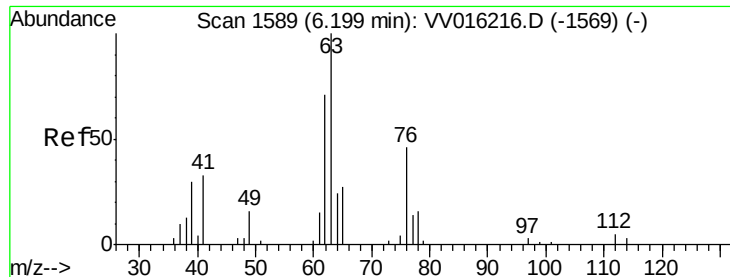


Abundance Ion 83.15 (82.85 to 83.85): VV016235.D (-1482) (-)

Ion 55.10 (54.80 to 55.80): VV016235.D (-1482) (-)

Ion 98.15 (97.85 to 98.85): VV016235.D (-1482) (-)

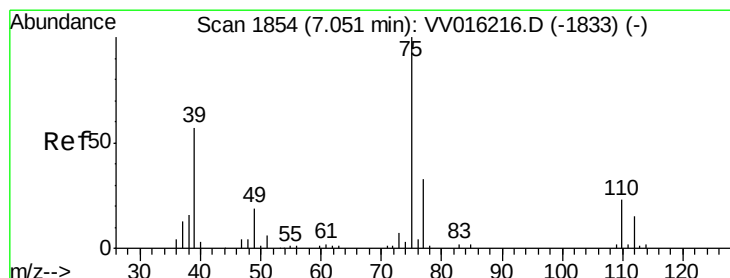
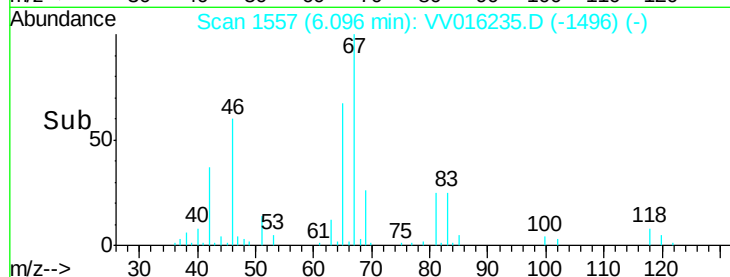
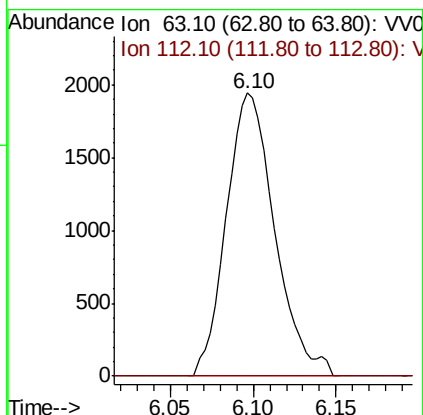
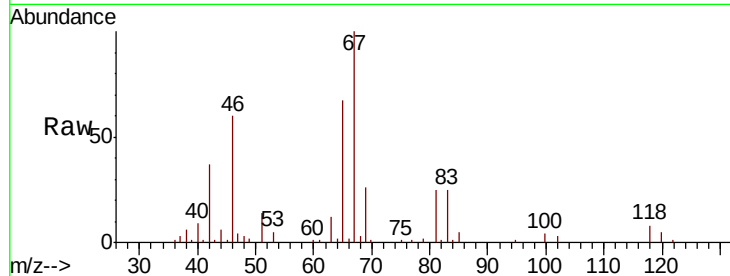




#37
 1,2-Dichloropropane
 Concen: 0.634 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.10 min
 Lab File: VV016235.D
 Acq: 27 May 2020 18:05

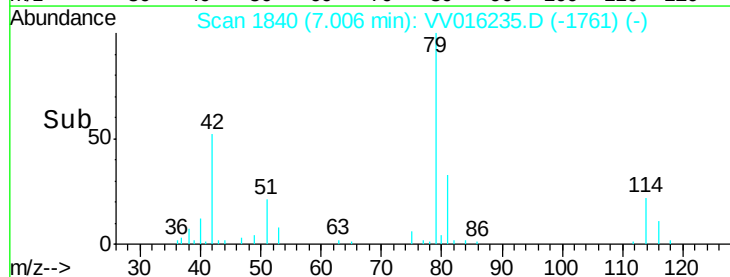
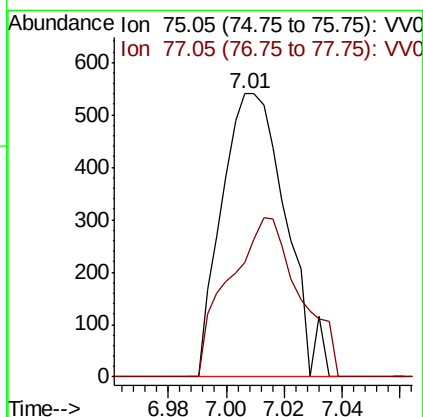
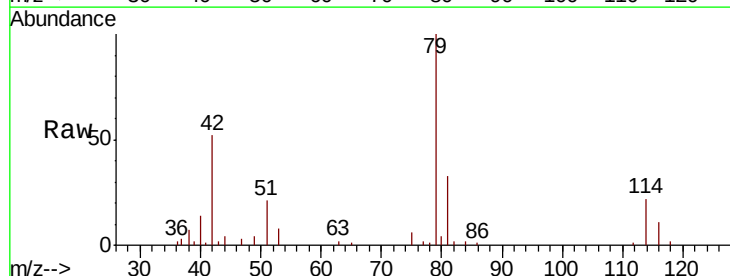
Instrument :
 MSVOA_V
 ClientSampleId :

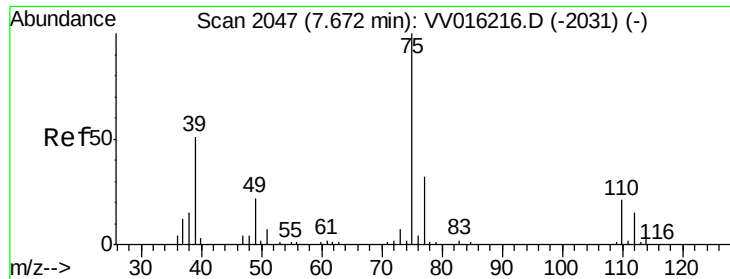
Tot Ion: 63 Resp: 3951
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.093 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.05 min
 Lab File: VV016235.D
 Acq: 27 May 2020 18:05

Tgt Ion: 75 Resp: 821
 Ion Ratio Lower Upper
 75 100
 77 40.4 21.7 40.3#





#46

trans-1,3-Dichloropropene

Concen: 0.081 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV016235.D

Acq: 27 May 2020 18:05

Instrument :

MSVOA_V

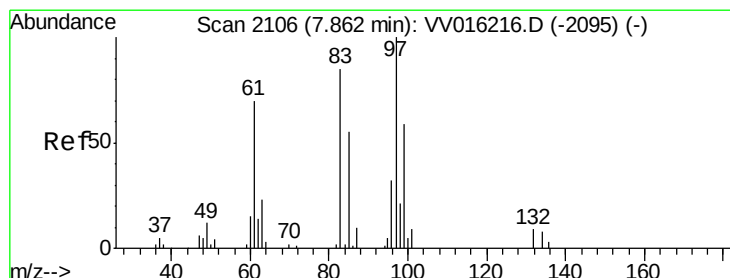
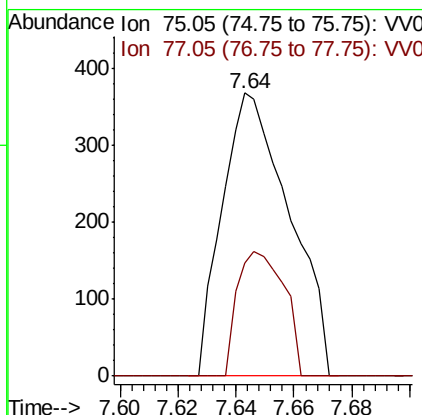
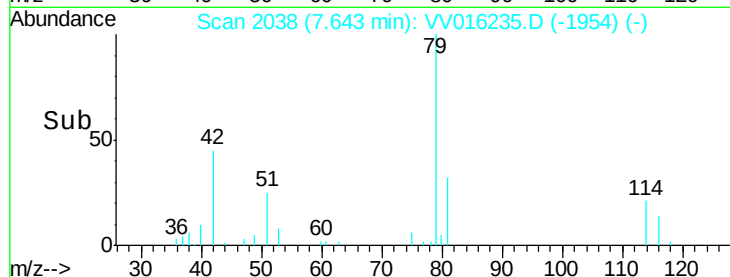
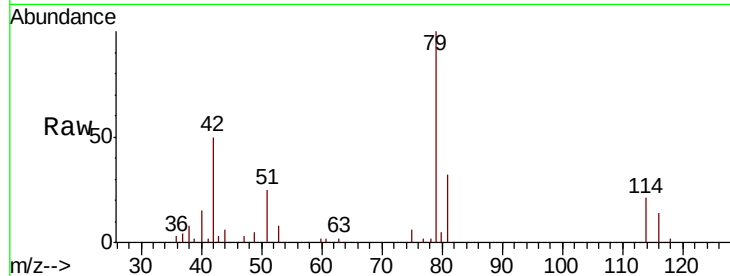
ClientSampleId :

Tot Ion: 75 Resp: 593

Ion Ratio Lower Upper

75 100

77 39.9 21.7 40.3



#47

1,1,2-Trichloroethane

Concen: 1.419 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.14 min

Lab File: VV016235.D

Acq: 27 May 2020 18:05

Tgt Ion: 97 Resp: 5818

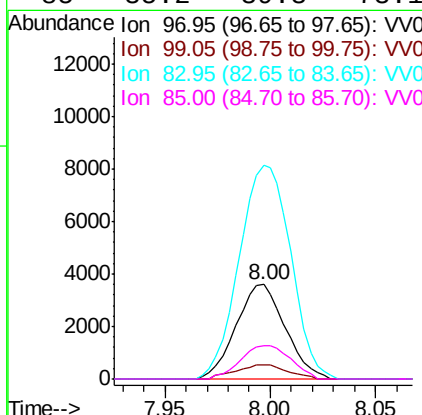
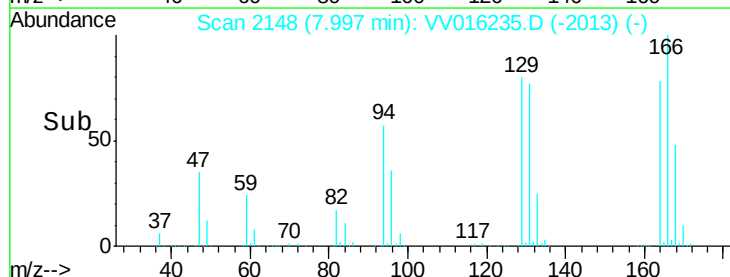
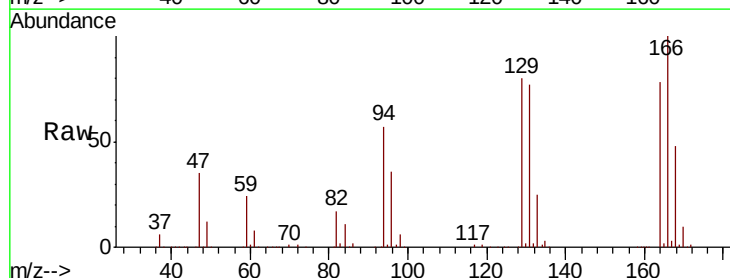
Ion Ratio Lower Upper

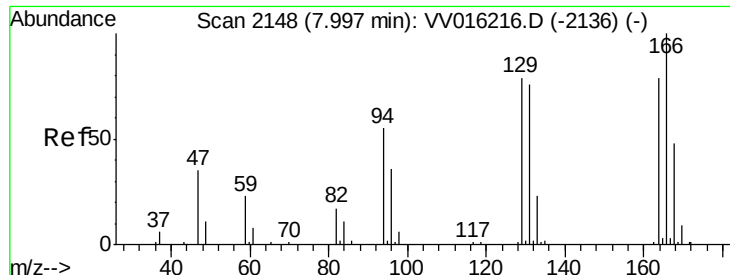
97 100

99 15.6 40.8 75.8#

83 226.9 60.0 111.4#

85 35.2 39.3 73.1#





#49

Tetrachloroethene

Concen: 112.561 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV016235.D

Acq: 27 May 2020 18:05

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 535029

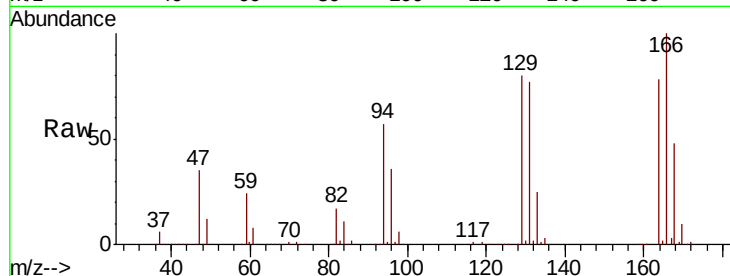
Ion Ratio Lower Upper

164 100

129 102.8 70.7 131.3

131 98.9 66.6 123.8

166 127.8 86.9 161.5

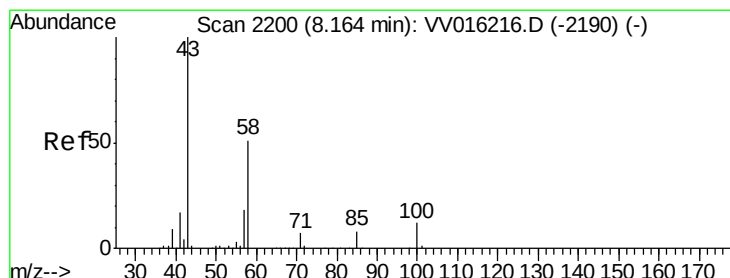
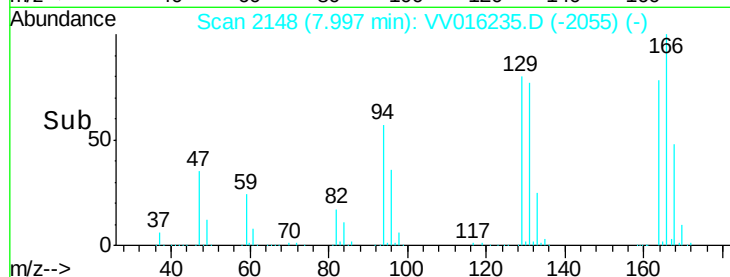
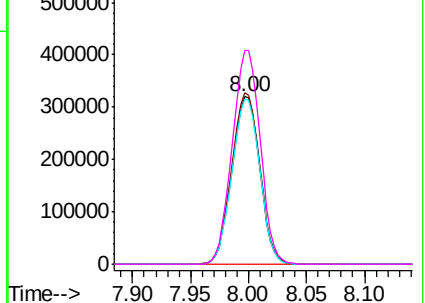


Abundance Ion 163.90 (163.60 to 164.60): V

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



#50

2-Hexanone

Concen: 2.552 ug/L

RT: 8.12 min Scan# 2185

Delta R.T. -0.05 min

Lab File: VV016235.D

Acq: 27 May 2020 18:05

Tgt Ion: 43 Resp: 6902

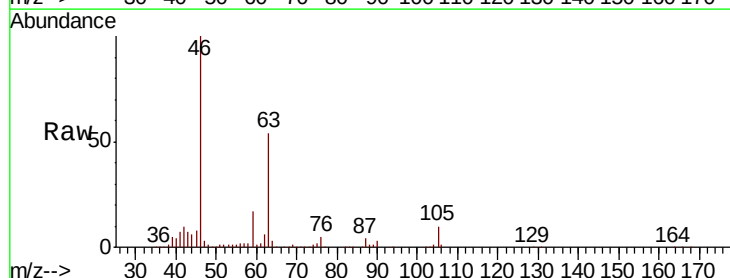
Ion Ratio Lower Upper

43 100

58 32.1 41.4 62.0#

57 27.9 15.0 22.4#

100 0.0 9.0 13.4#

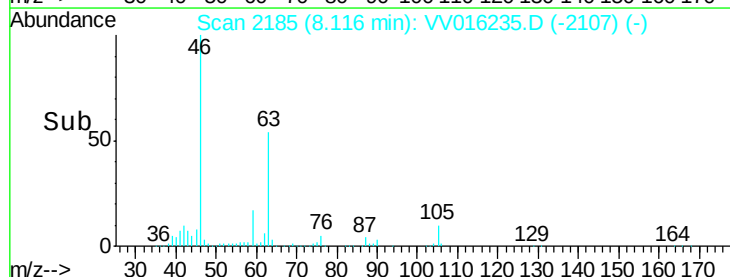
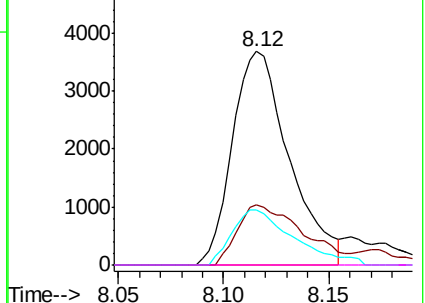


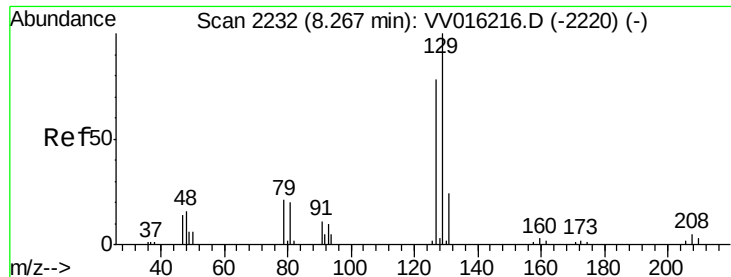
Abundance Ion 43.05 (42.75 to 43.75): VV0

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





#51

Dibromochloromethane

Concen: 122.134 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.27 min

Lab File: VV016235.D

Acq: 27 May 2020 18:05

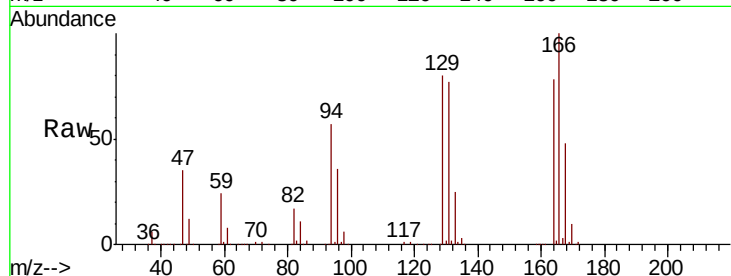
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:129 Resp: 530349

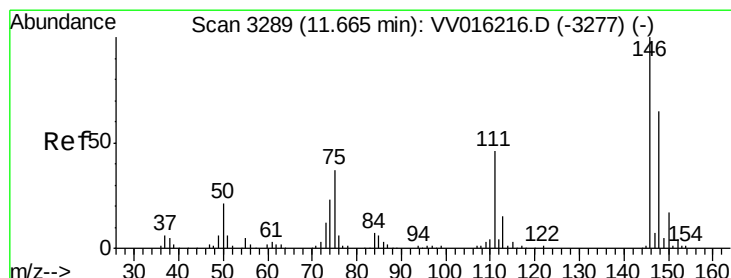
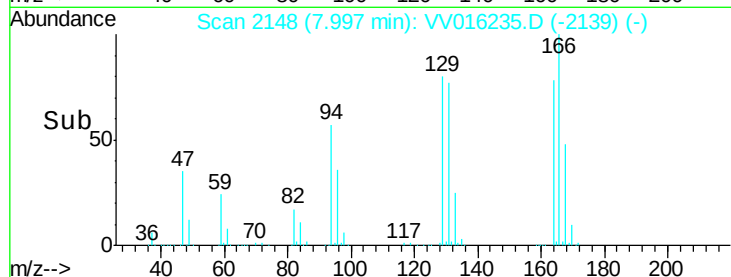
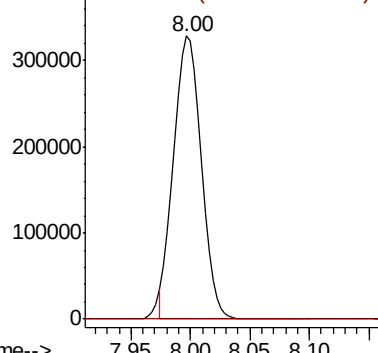
Ion Ratio Lower Upper

129 100

127 0.0 55.2 102.4#



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V



#66

1,2-Dichlorobenzene

Concen: 0.077 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV016235.D

Acq: 27 May 2020 18:05

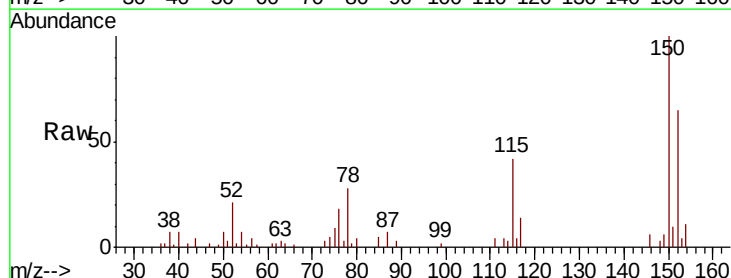
Tgt Ion:146 Resp: 829

Ion Ratio Lower Upper

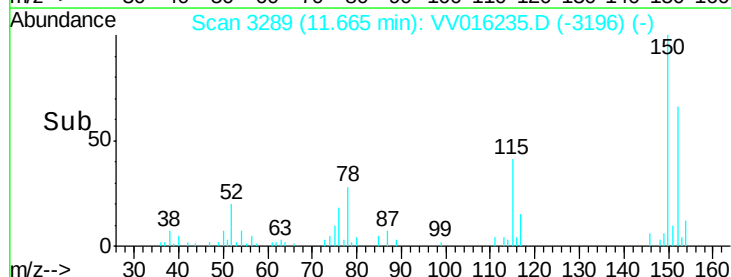
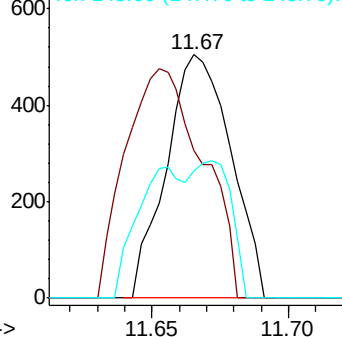
146 100

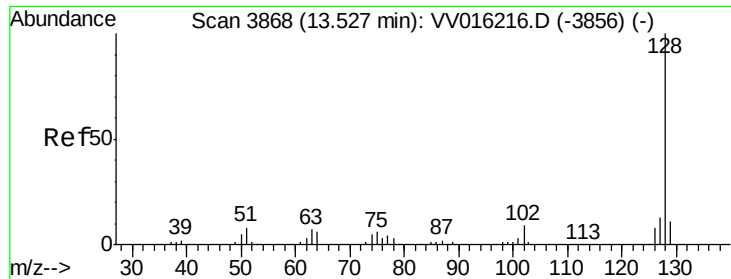
111 60.4 35.7 53.5#

148 52.1 51.3 76.9



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#70

Naphthalene

Concen: 0.114 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.00 min

Lab File: VV016235.D

Acq: 27 May 2020 18:05

Instrument :

MSVOA_V

ClientSampleId :

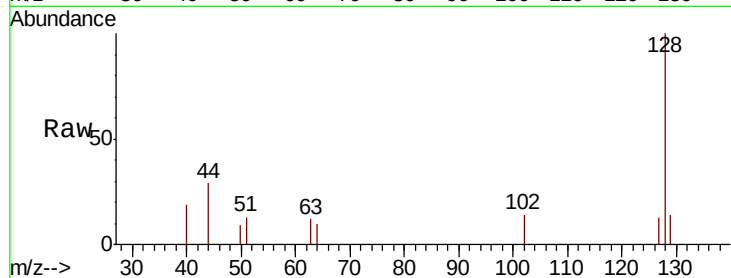
Tot Ion:128 Resp: 1844

Ion Ratio Lower Upper

128 100

129 8.9 8.6 13.0

127 9.8 10.6 15.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

