

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042520\
 Data File : VV015712.D
 Acq On : 25 Apr 2020 22:31
 Operator : SY/MD
 Sample : L2413-19
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 27 01:18:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR042220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Apr 27 01:12:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	126304	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	122990	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	57505	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	37491	5.68	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	113.60%
7) Chloroethane-d5	1.58	69	27449	4.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.40%
11) 1,1-Dichloroethene-d2	2.12	63	57873	4.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	80.20%
20) 2-Butanone-d5	3.92	46	108476	51.18	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.36%
24) Chloroform-d	4.38	84	70227	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.40%
26) 1,2-Dichloroethane-d4	5.06	65	39927	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.80%
32) Benzene-d6	5.08	84	130308	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.80%
36) 1,2-Dichloropropane-d6	6.10	67	43637	4.65	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.00%
41) Toluene-d8	7.34	98	119491	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.80%
43) trans-1,3-Dichloropropene-	7.65	79	11094	3.06	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	61.20%
46) 2-Hexanone-d5	8.11	63	78479	44.37	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.74%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	31308	4.48	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.60%
64) 1,2-Dichlorobenzene-d4	11.65	152	46832	4.79	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.80%

Target Compounds

					Ovalue
3) Chloromethane	1.24	50	660	0.071	ug/L 100
5) Vinyl chloride	1.32	62	1804556	180.530	ug/L 100
8) Chloroethane	1.39	64	81176	12.365	ug/L # 51
12) 1,1-Dichloroethene	2.13	96	25762	3.505	ug/L 91
13) Acetone	2.19	43	2233	1.517	ug/L 74
14) Carbon disulfide	2.31	76	1013	0.049	ug/L # 75
18) trans-1,2-Dichloroethene	2.78	96	91062	11.063	ug/L 100
22) cis-1,2-Dichloroethene	3.94	96	11010875	1209.893	ug/L 96
30) Cyclohexane	4.71	56	8140	0.546	ug/L 96
33) Benzene	5.13	78	2717	0.077	ug/L 100
34) Trichloroethene	5.94	95	695588	71.680	ug/L 98
35) Methylcyclohexane	6.16	83	3400	0.228	ug/L 92
37) 1,2-Dichloropropane	6.09	63	5331	0.597	ug/L # 86
42) Toluene	7.42	91	3241	0.086	ug/L 97
44) trans-1,3-Dichloropropene	7.65	75	525	0.050	ug/L 94
45) 1,1,2-Trichloroethane	8.00	97	12459	2.047	ug/L # 1
47) Tetrachloroethene	8.00	164	1234779	176.720	ug/L 96

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Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Apr 27 01:12:28 2020
Response via : Initial Calibration

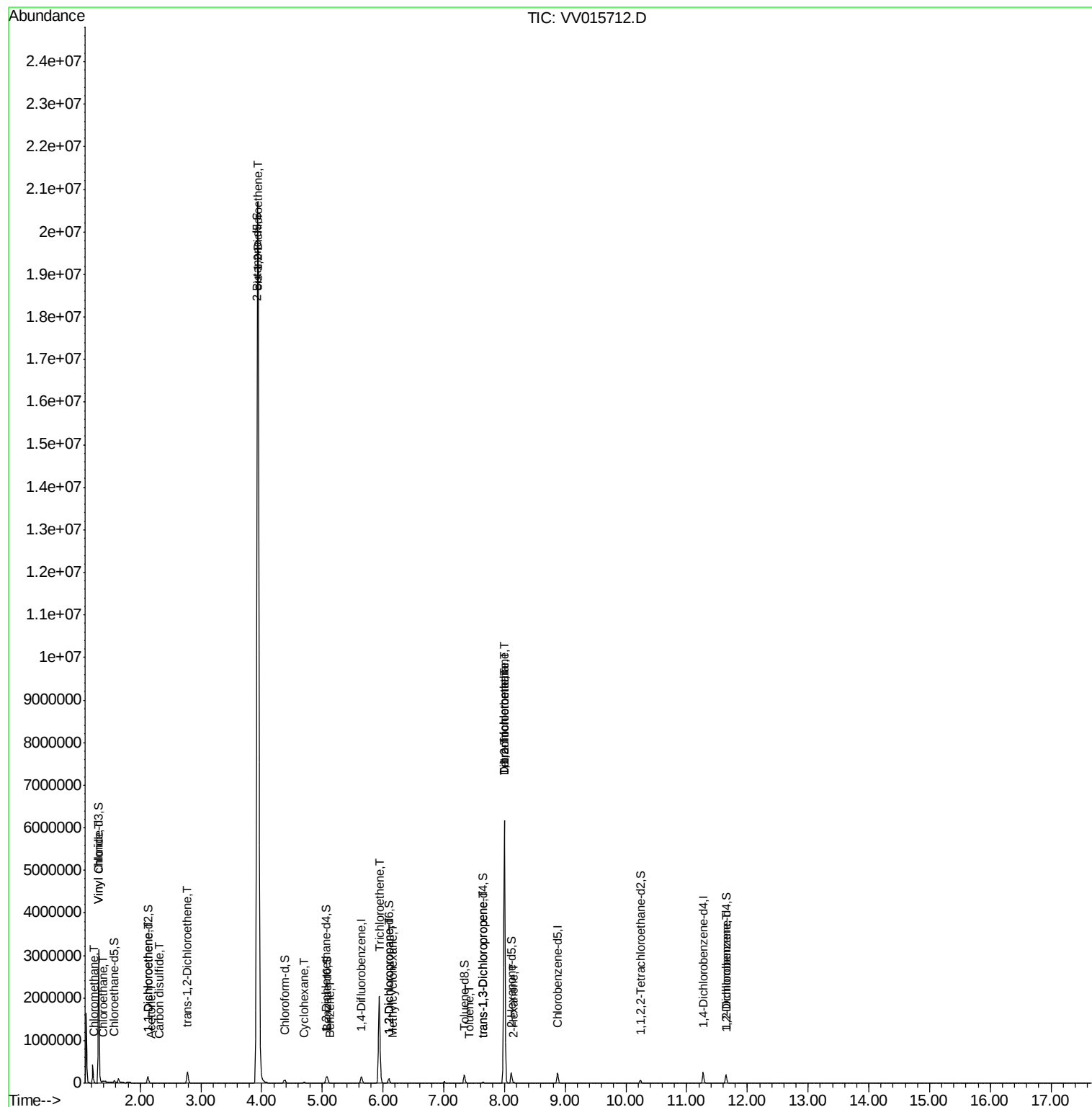
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.16	43	1987	0.481	ug/L #	79
49) Dibromochloromethane	8.00	129	1208761	191.856	ug/L #	12
65) 1,2-Dichlorobenzene	11.67	146	2145	0.130	ug/L #	86

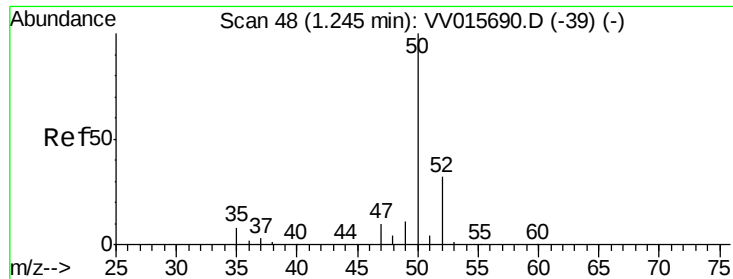
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV042520\
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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.071 ug/L

RT: 1.24 min Scan# 48

Delta R.T. -0.00 min

Lab File: VV015712.D

Acq: 25 Apr 2020 22:31

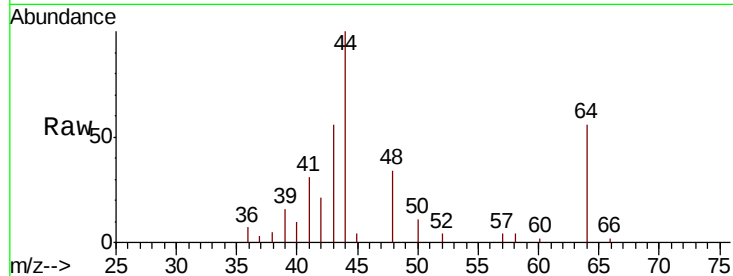
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 50 Resp: 660

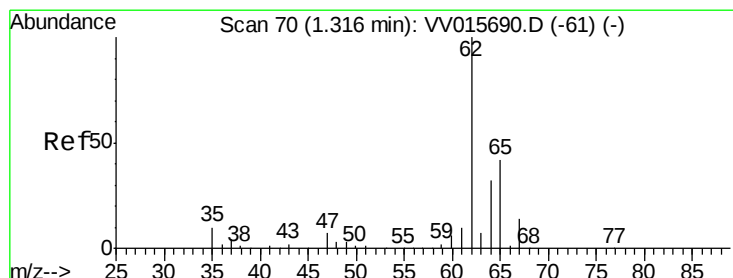
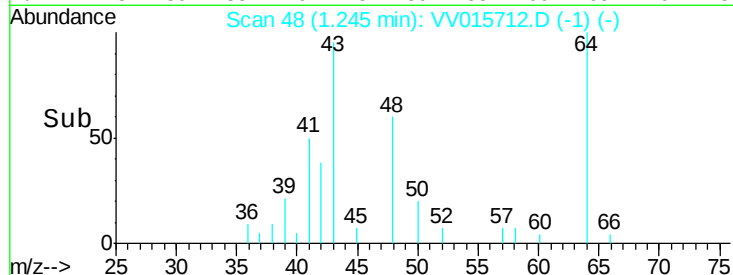
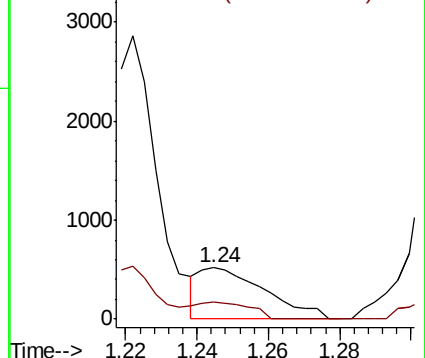
Ion Ratio Lower Upper

50 100

52 32.9 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VV0
Ion 52.05 (51.75 to 52.75): VV0



#5

Vinyl chloride

Concen: 180.530 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV015712.D

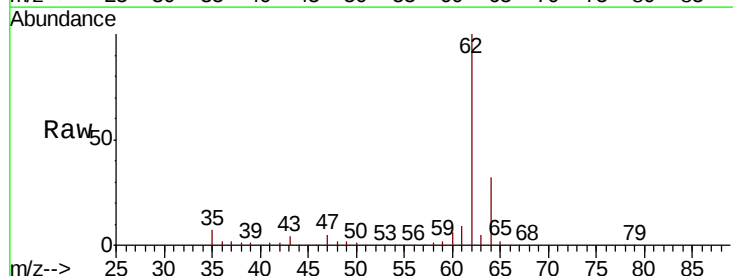
Acq: 25 Apr 2020 22:31

Tgt Ion: 62 Resp: 1804556

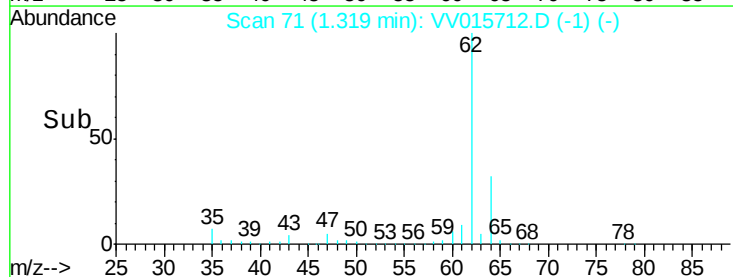
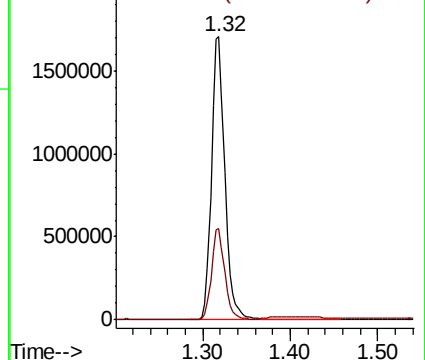
Ion Ratio Lower Upper

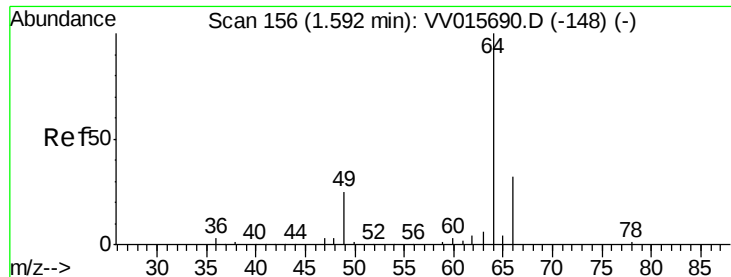
62 100

64 32.3 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV0
Ion 64.10 (63.80 to 64.80): VV0





#8

Chloroethane

Concen: 12.365 ug/L

RT: 1.39 min Scan# 93

Delta R.T. -0.20 min

Lab File: VV015712.D

Acq: 25 Apr 2020 22:31

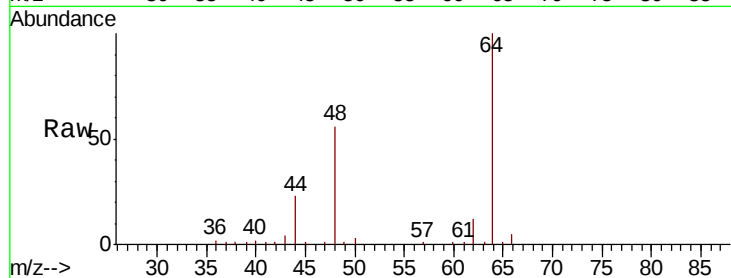
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 64 Resp: 81176

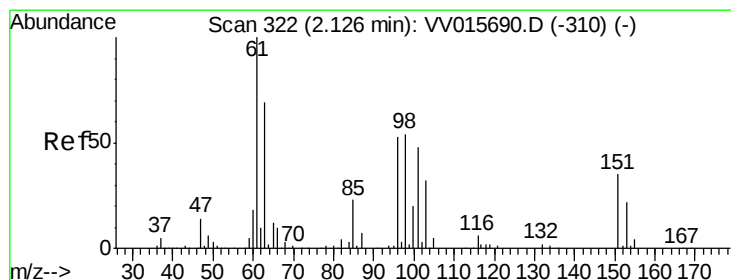
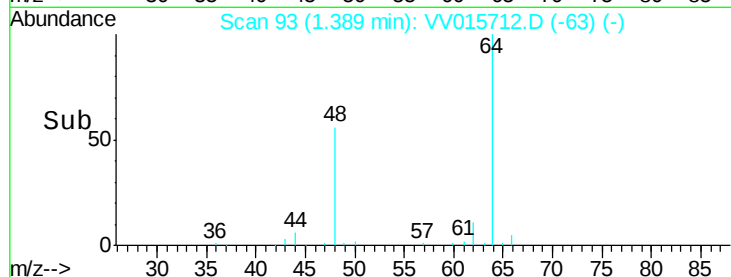
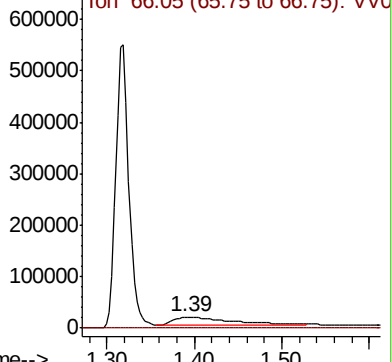
Ion Ratio Lower Upper

64 100

66 4.8 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VV0
Ion 66.05 (65.75 to 66.75): VV0



#12

1,1-Dichloroethene

Concen: 3.505 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.01 min

Lab File: VV015712.D

Acq: 25 Apr 2020 22:31

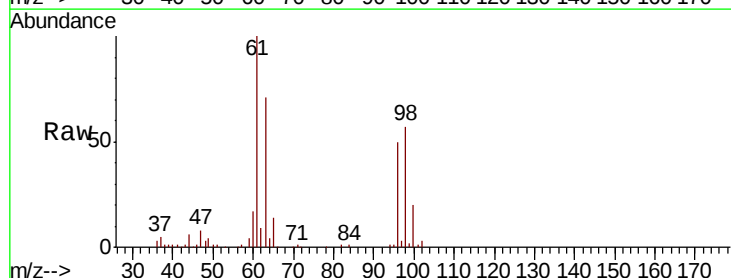
Tgt Ion: 96 Resp: 25762

Ion Ratio Lower Upper

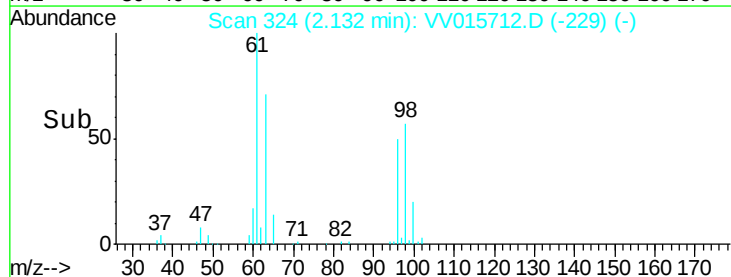
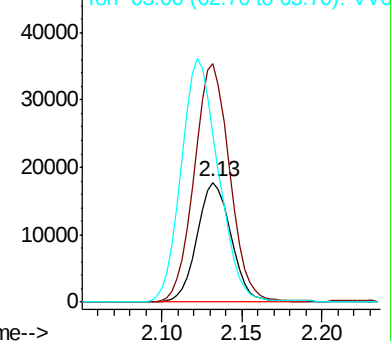
96 100

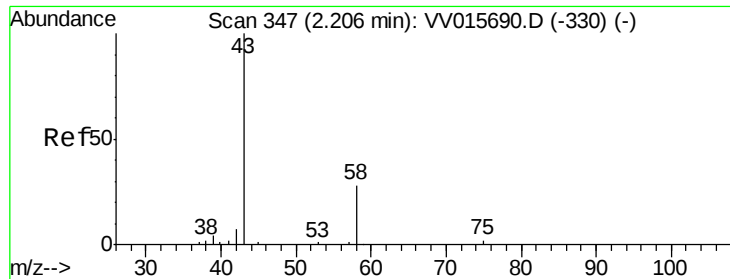
61 198.8 130.1 241.7

63 140.8 91.4 169.8



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: 1.517 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.02 min

Lab File: VV015712.D

Acq: 25 Apr 2020 22:31

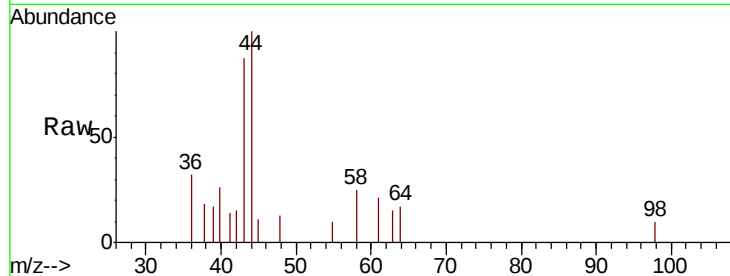
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 2233

Ion Ratio Lower Upper

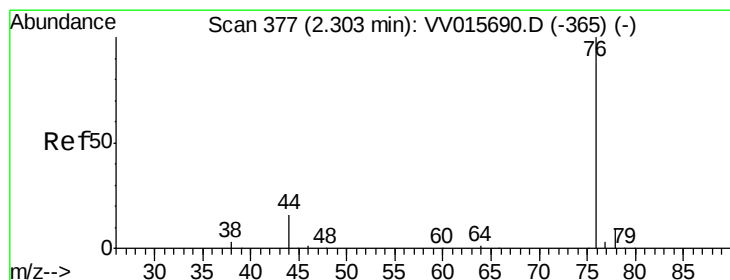
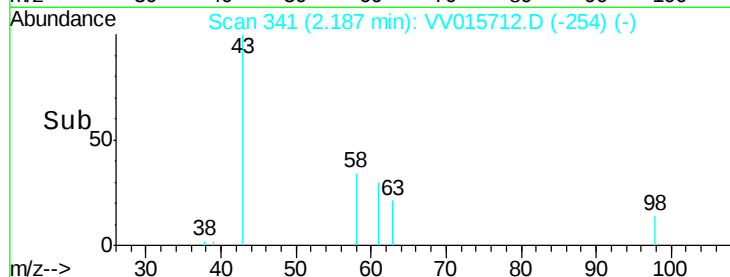
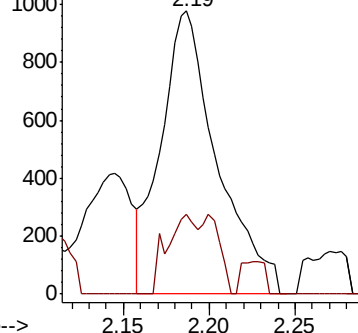
43 100

58 15.0 0.0 57.6



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#14

Carbon disulfide

Concen: 0.049 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.01 min

Lab File: VV015712.D

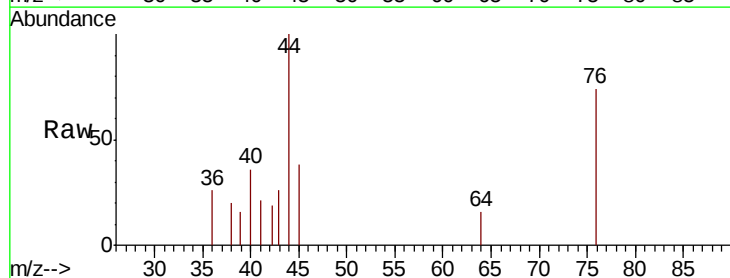
Acq: 25 Apr 2020 22:31

Tgt Ion: 76 Resp: 1013

Ion Ratio Lower Upper

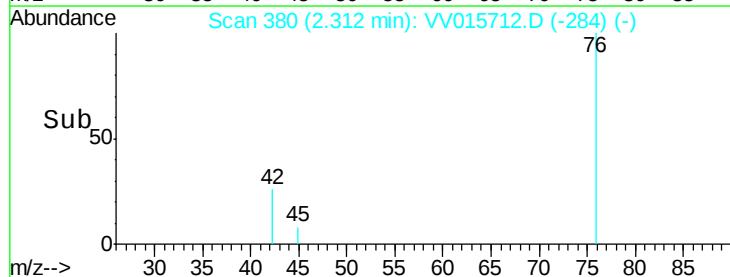
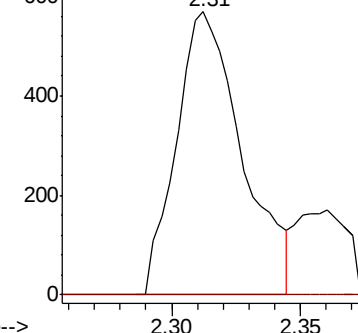
76 100

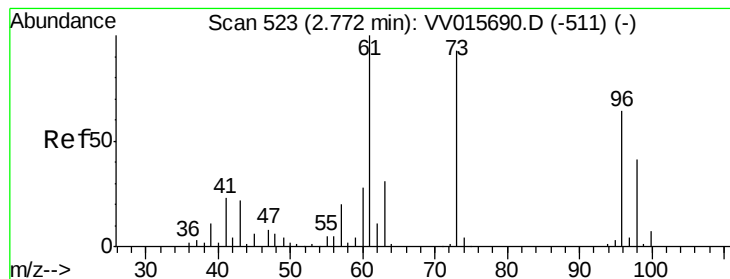
78 0.0 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0





#18

trans-1,2-Dichloroethene

Concen: 11.063 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.01 min

Lab File: VV015712.D

Acq: 25 Apr 2020 22:31

Instrument :
MSVOA_V
ClientSampleId :

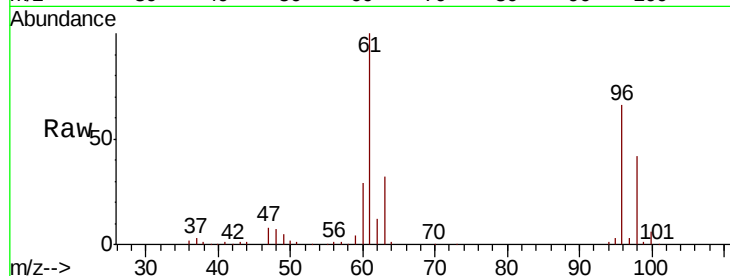
Tot Ion: 96 Resp: 91062

Ion Ratio Lower Upper

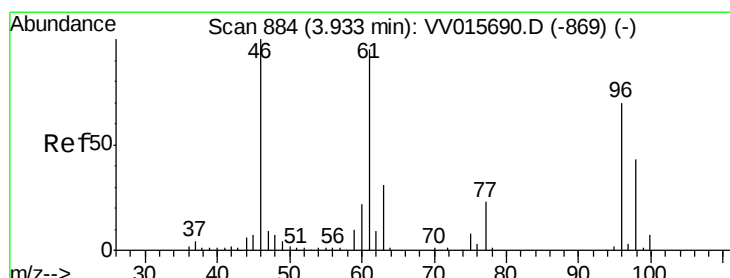
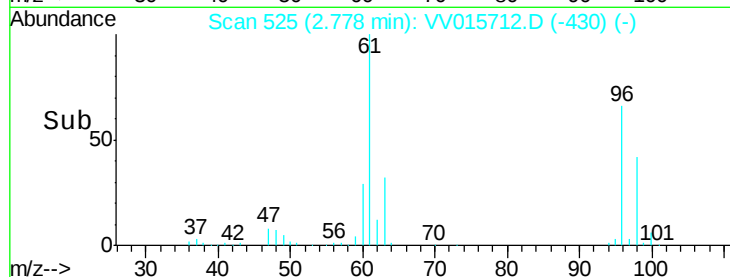
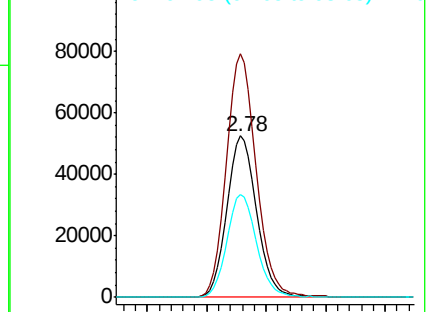
96 100

61 150.8 105.5 195.9

98 63.7 44.2 82.0



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



#22

cis-1,2-Dichloroethene

Concen: 1209.893 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.01 min

Lab File: VV015712.D

Acq: 25 Apr 2020 22:31

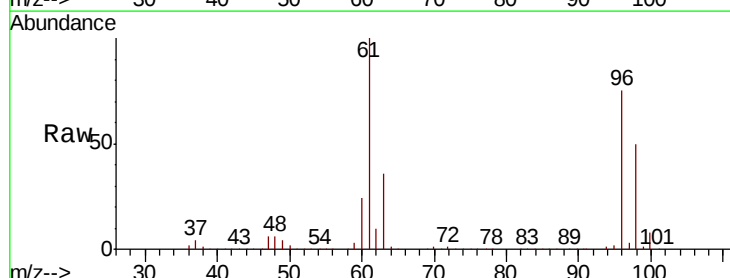
Tgt Ion: 96 Resp: 11010875

Ion Ratio Lower Upper

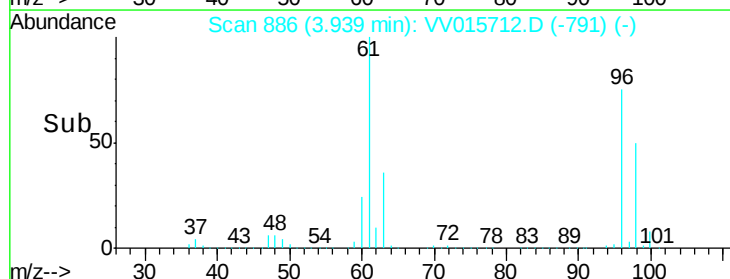
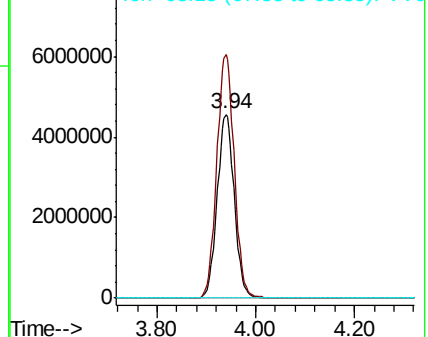
96 100

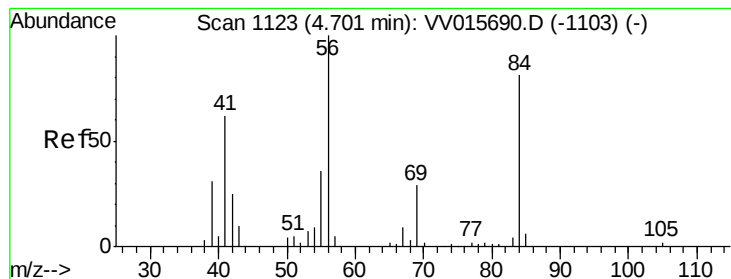
61 132.6 96.4 179.0

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





#30

Cyclohexane

Concen: 0.546 ug/L

RT: 4.71 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VV015712.D

Acq: 25 Apr 2020 22:31

Instrument :
MSVOA_V
ClientSampleId :

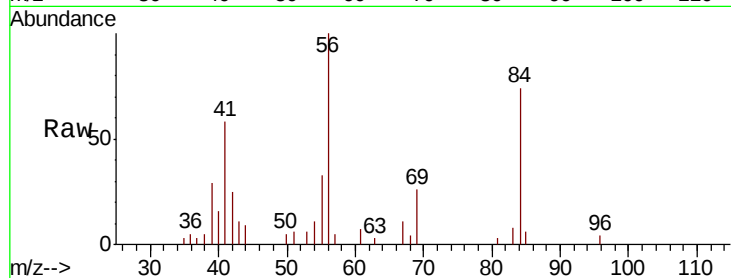
Tot Ion: 56 Resp: 8140

Ion Ratio Lower Upper

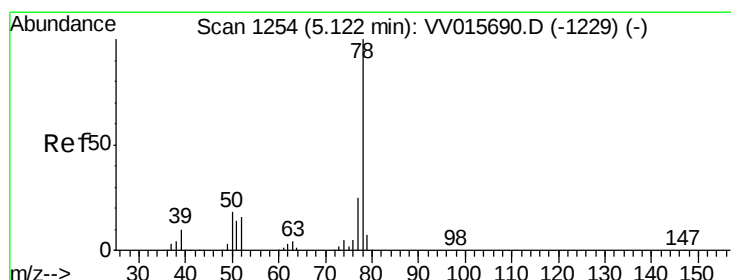
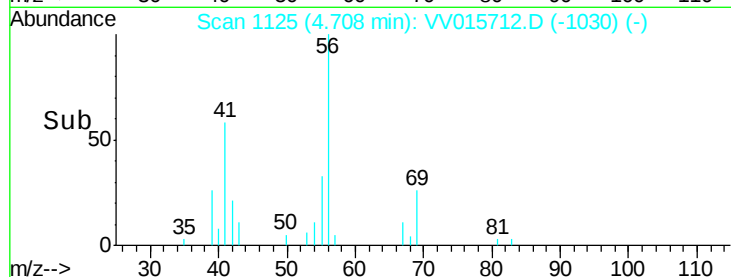
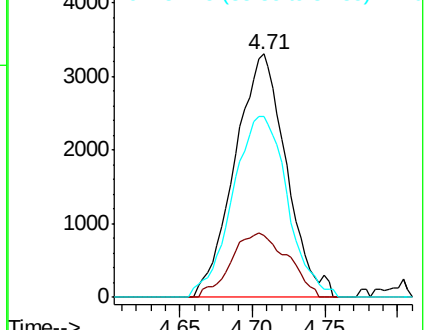
56 100

69 29.0 23.9 35.9

84 79.4 66.9 100.3



Abundance Ion 56.10 (55.80 to 56.80): VV0
Ion 69.15 (68.85 to 69.85): VV0
Ion 84.15 (83.85 to 84.85): VV0



#33

Benzene

Concen: 0.077 ug/L

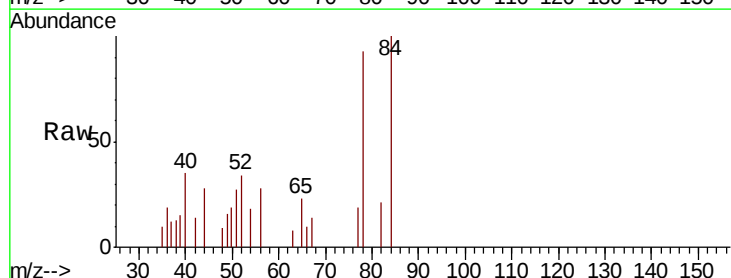
RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

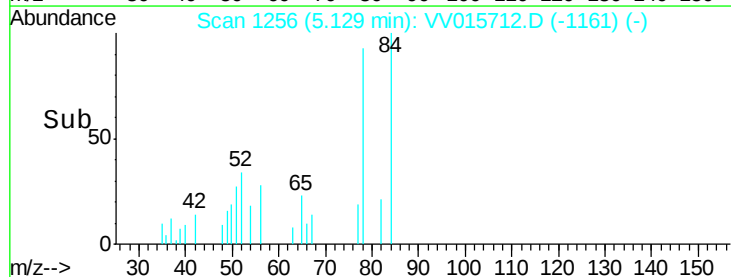
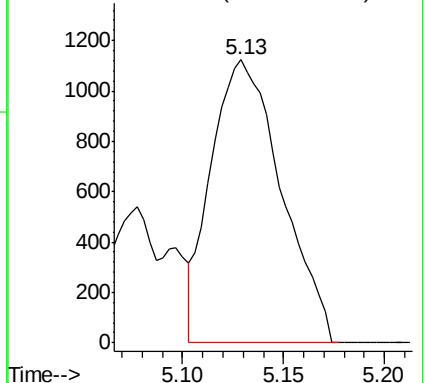
Lab File: VV015712.D

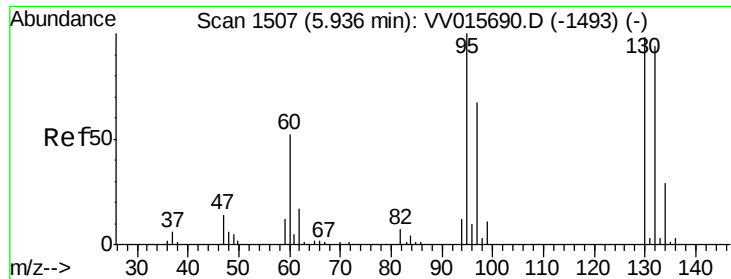
Acq: 25 Apr 2020 22:31

Tgt Ion: 78 Resp: 2717



Abundance Ion 78.10 (77.80 to 78.80): VV0

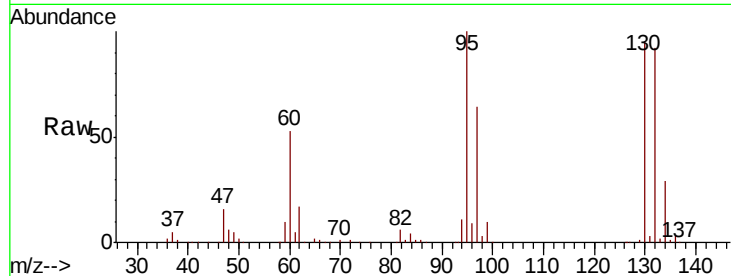




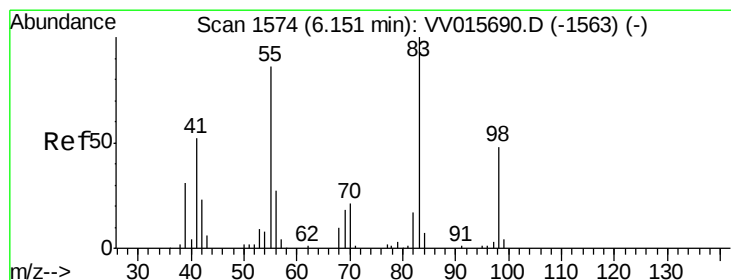
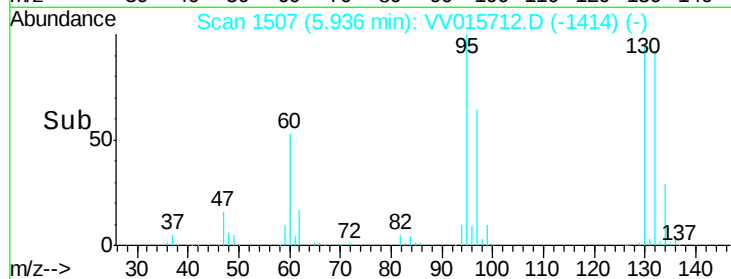
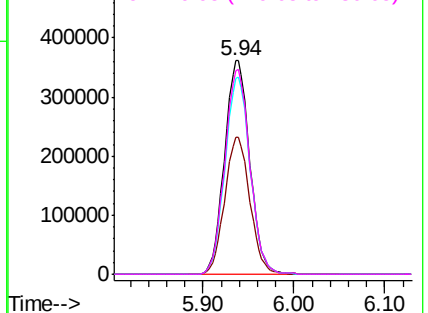
#34
 Trichloroethene
 Concen: 71.680 ug/L
 RT: 5.94 min Scan# 1507
 Delta R.T. -0.00 min
 Lab File: VV015712.D
 Acq: 25 Apr 2020 22:31

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 95 Resp: 695588
 Ion Ratio Lower Upper
 95 100
 97 64.1 44.7 82.9
 132 91.6 65.2 121.0
 130 95.4 65.0 120.6

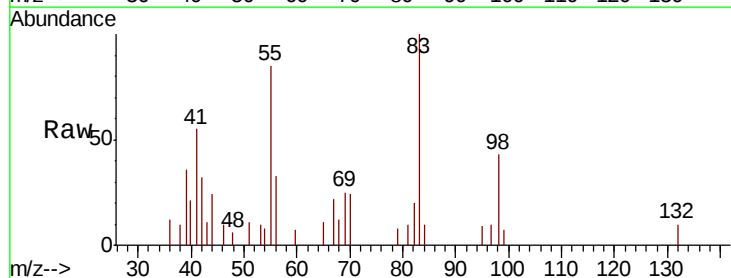


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

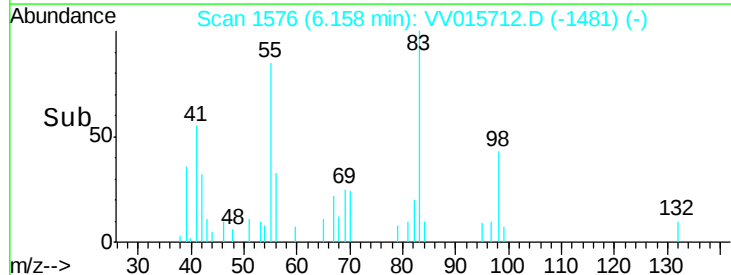
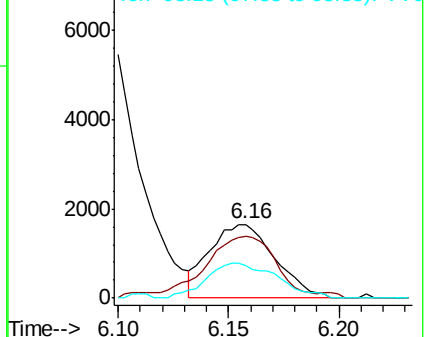


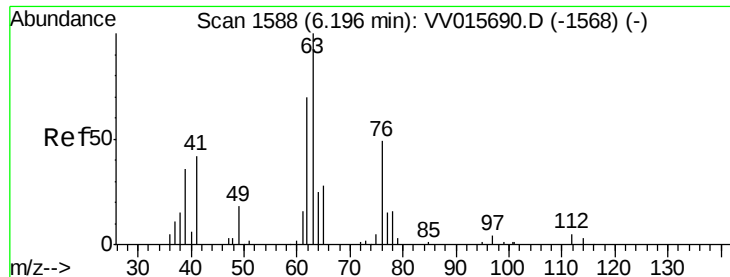
#35
 Methylcyclohexane
 Concen: 0.228 ug/L
 RT: 6.16 min Scan# 1576
 Delta R.T. 0.01 min
 Lab File: VV015712.D
 Acq: 25 Apr 2020 22:31

Tgt Ion: 83 Resp: 3400
 Ion Ratio Lower Upper
 83 100
 55 93.7 66.6 99.8
 98 51.2 39.5 59.3



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

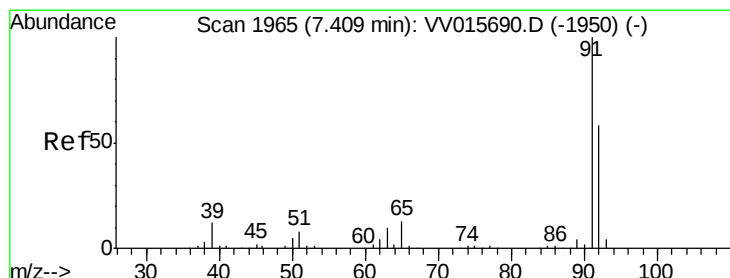
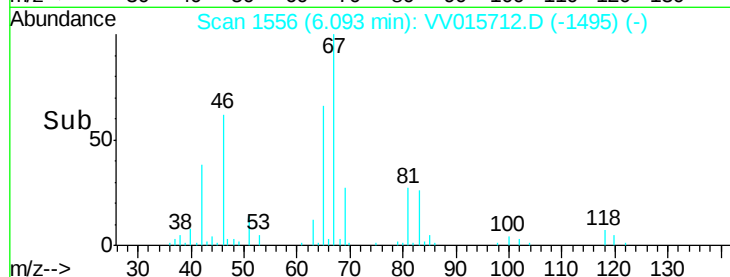
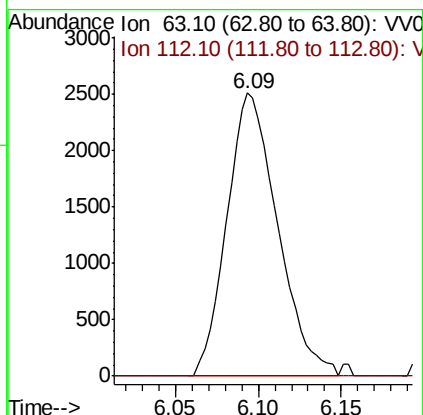
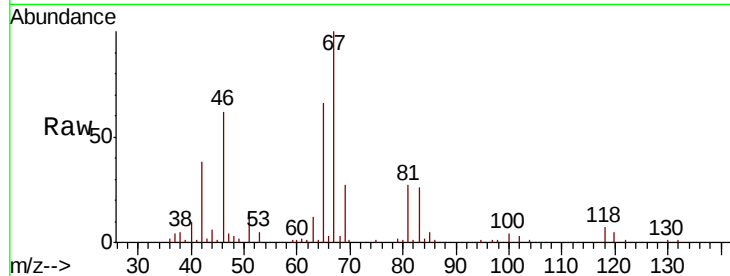




#37
 1,2-Dichloropropane
 Concen: 0.597 ug/L
 RT: 6.09 min Scan# 1556
 Delta R.T. -0.10 min
 Lab File: VV015712.D
 Acq: 25 Apr 2020 22:31

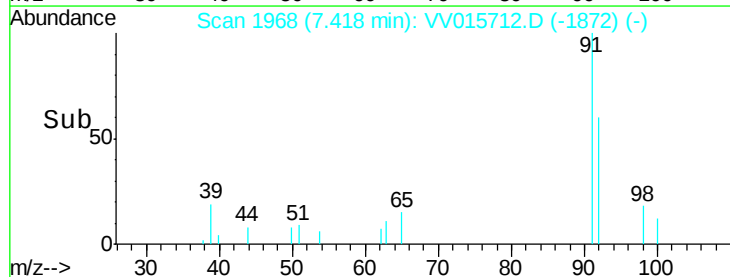
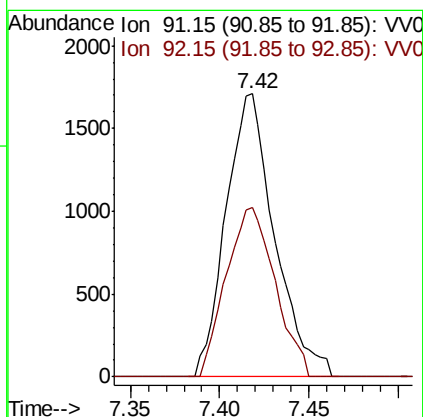
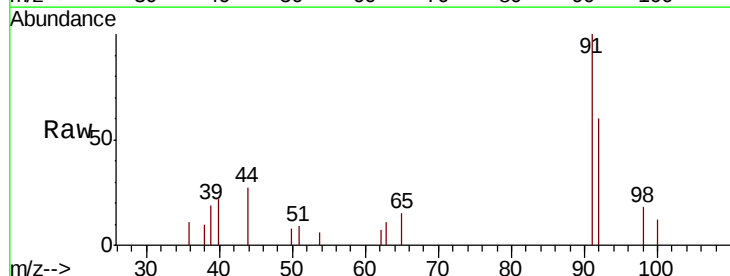
Instrument :
 MSVOA_V
 ClientSampleId :

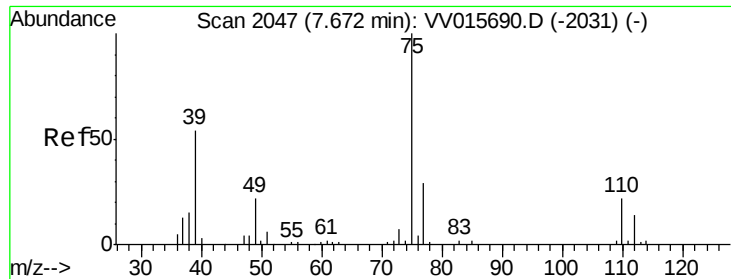
Tot Ion: 63 Resp: 5331
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#42
 Toluene
 Concen: 0.086 ug/L
 RT: 7.42 min Scan# 1968
 Delta R.T. 0.01 min
 Lab File: VV015712.D
 Acq: 25 Apr 2020 22:31

Tgt Ion: 91 Resp: 3241
 Ion Ratio Lower Upper
 91 100
 92 60.1 40.7 75.7





#44

trans-1,3-Dichloropropene

Concen: 0.050 ug/L

RT: 7.65 min Scan# 2040

Delta R.T. -0.02 min

Lab File: VV015712.D

Acq: 25 Apr 2020 22:31

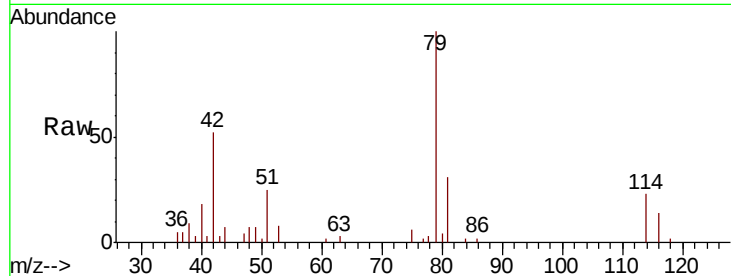
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 75 Resp: 525

Ion Ratio Lower Upper

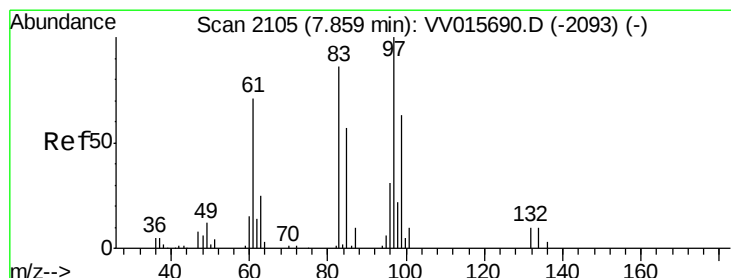
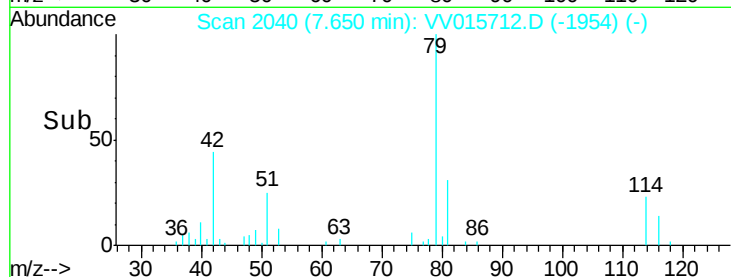
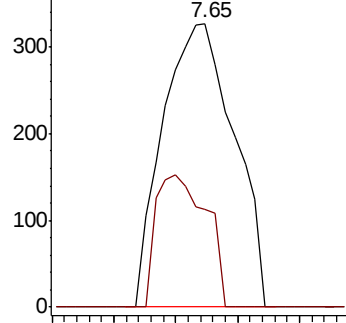
75 100

77 34.3 21.8 40.6



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#45

1,1,2-Trichloroethane

Concen: 2.047 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.14 min

Lab File: VV015712.D

Acq: 25 Apr 2020 22:31

Tgt Ion: 97 Resp: 12459

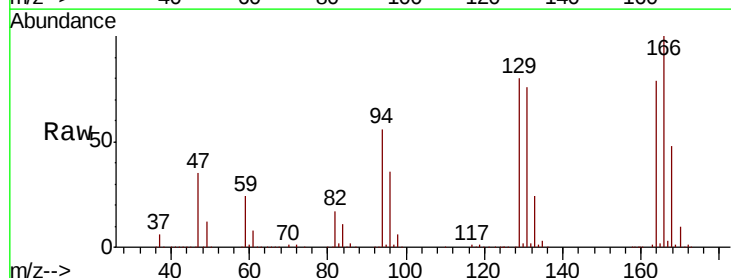
Ion Ratio Lower Upper

97 100

99 18.4 45.4 84.4#

83 251.8 61.3 113.9#

85 36.8 38.4 71.4#

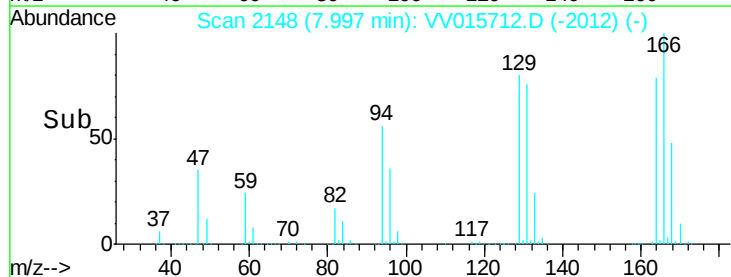
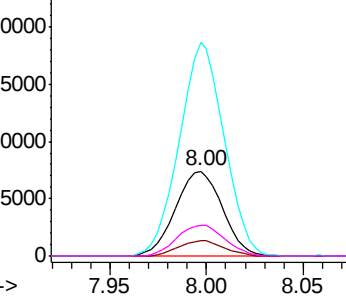


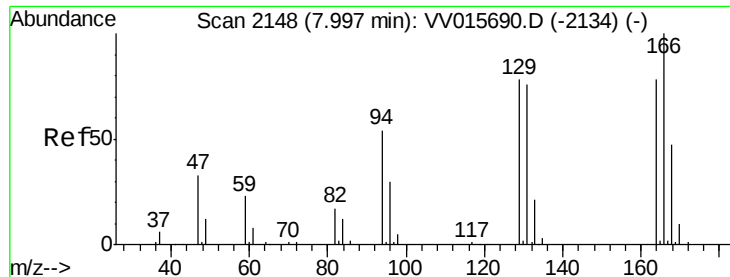
Abundance Ion 96.95 (96.65 to 97.65): VV0

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





#47

Tetrachloroethene

Concen: 176.720 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.00 min

Lab File: VV015712.D

Acq: 25 Apr 2020 22:31

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:164 Resp: 1234779

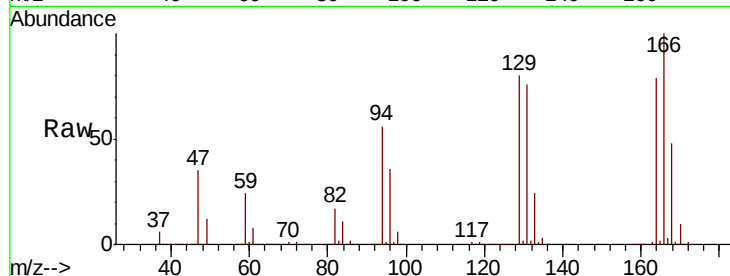
Ion Ratio Lower Upper

164 100

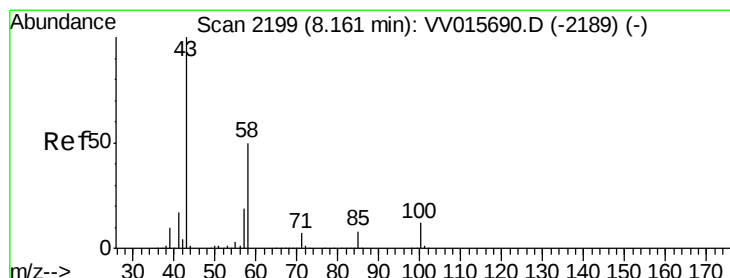
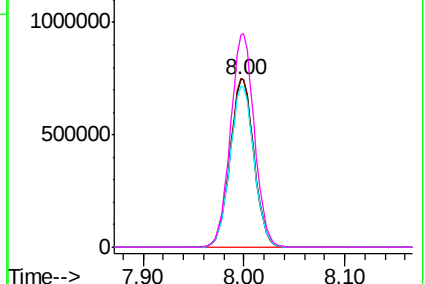
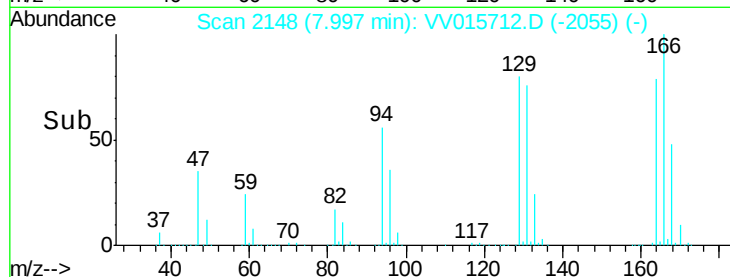
129 100.9 66.7 123.9

131 96.1 66.6 123.6

166 126.6 85.3 158.5



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



#48

2-Hexanone

Concen: 0.481 ug/L

RT: 8.16 min Scan# 2199

Delta R.T. -0.00 min

Lab File: VV015712.D

Acq: 25 Apr 2020 22:31

Tgt Ion: 43 Resp: 1987

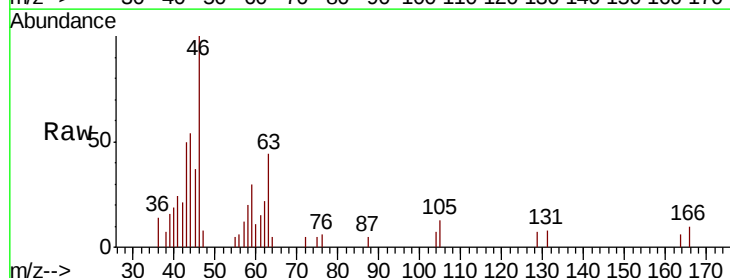
Ion Ratio Lower Upper

43 100

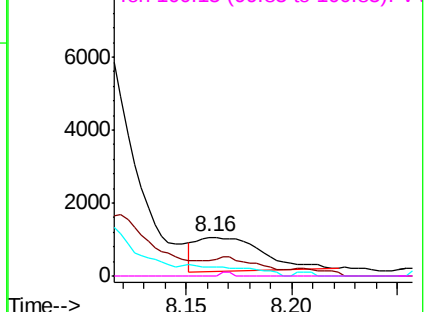
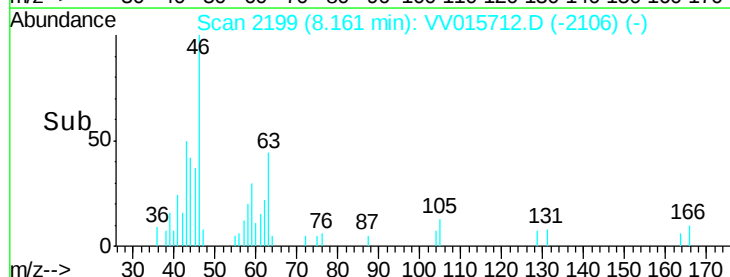
58 42.0 41.1 61.7

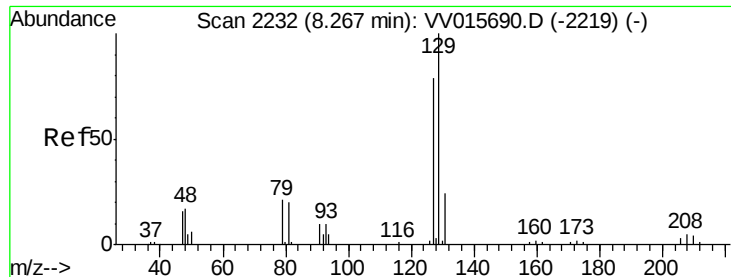
57 0.0 15.0 22.4#

100 2.0 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

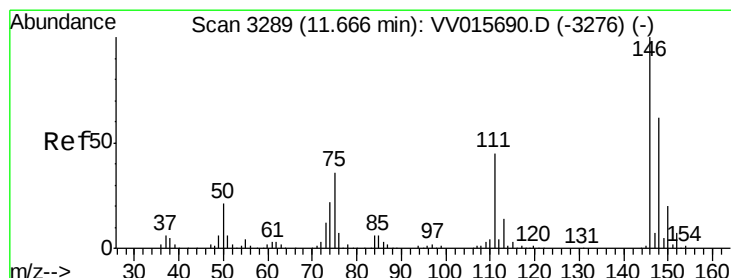
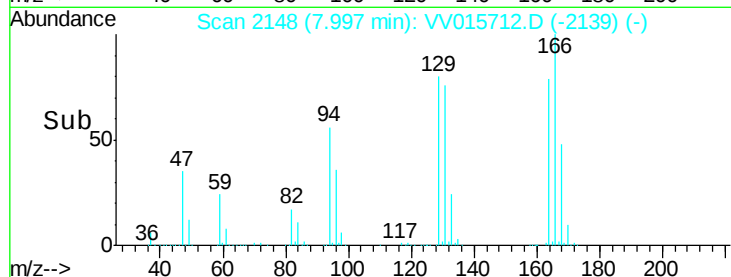
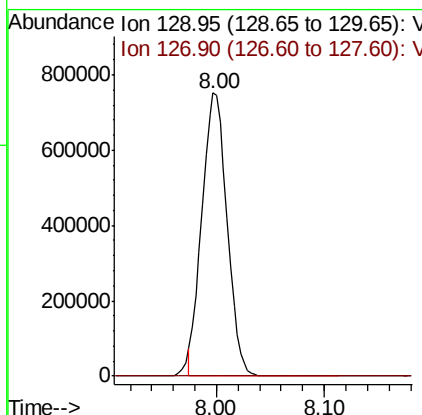
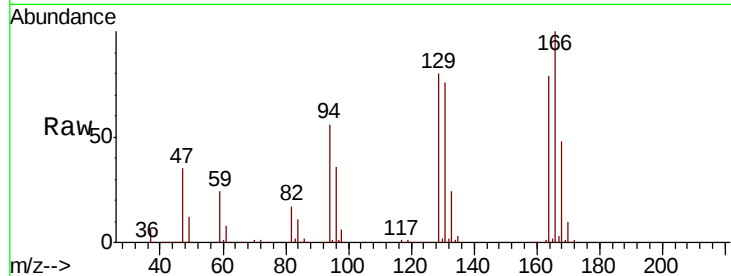




#49
 Dibromochloromethane
 Concen: 191.856 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. -0.27 min
 Lab File: VV015712.D
 Acq: 25 Apr 2020 22:31

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:129 Resp: 1208761
 Ion Ratio Lower Upper
 129 100
 127 0.0 52.6 97.8#



#65
 1,2-Dichlorobenzene
 Concen: 0.130 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. -0.00 min
 Lab File: VV015712.D
 Acq: 25 Apr 2020 22:31

Tgt Ion:146 Resp: 2145
 Ion Ratio Lower Upper
 146 100
 111 63.0 34.7 52.1#
 148 61.7 51.3 76.9

