

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042520\
 Data File : VV015714.D
 Acq On : 25 Apr 2020 23:18
 Operator : SY/MD
 Sample : L2413-21MSD
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 27 01:19:20 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	128979	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	126040	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	59570	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	36397	5.40	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	108.00%
7) Chloroethane-d5	1.58	69	27064	4.17	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.40%
11) 1,1-Dichloroethene-d2	2.13	63	82493	5.59	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	111.80%
20) 2-Butanone-d5	3.92	46	109753	50.71	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.42%
24) Chloroform-d	4.38	84	71141	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.60%
26) 1,2-Dichloroethane-d4	5.06	65	40638	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.40%
32) Benzene-d6	5.08	84	132171	4.39	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.80%
36) 1,2-Dichloropropane-d6	6.10	67	43717	4.55	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.00%
41) Toluene-d8	7.34	98	120300	4.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.20%
43) trans-1,3-Dichloropropene-	7.65	79	11419	3.07	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	61.40%
46) 2-Hexanone-d5	8.11	63	82636	45.59	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.18%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	31508	4.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.00%
64) 1,2-Dichlorobenzene-d4	11.65	152	46601	4.60	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.00%

Target Compounds

					Ovalue
3) Chloromethane	1.25	50	806	0.084	ug/L 93
5) Vinyl chloride	1.32	62	1466694	143.687	ug/L 100
8) Chloroethane	1.40	64	64603	9.636	ug/L # 51
12) 1,1-Dichloroethene	2.13	96	67459	8.986	ug/L # 85
18) trans-1,2-Dichloroethene	2.78	96	96897	11.528	ug/L 99
22) cis-1,2-Dichloroethene	3.94	96	11541542	1241.901	ug/L 95
27) 1,2-Dichloroethane	5.12	62	1819	0.158	ug/L # 78
30) Cyclohexane	4.71	56	9788	0.641	ug/L 95
33) Benzene	5.13	78	197731	5.491	ug/L 100
34) Trichloroethene	5.94	95	2060088	207.153	ug/L 98
35) Methylcyclohexane	6.15	83	4332	0.284	ug/L 88
37) 1,2-Dichloropropane	6.09	63	5396	0.590	ug/L # 86
42) Toluene	7.41	91	210195	5.463	ug/L 99
44) trans-1,3-Dichloropropene	7.65	75	603	0.056	ug/L # 74
45) 1,1,2-Trichloroethane	8.00	97	36598	5.866	ug/L # 1
47) Tetrachloroethene	8.00	164	3666115	511.993	ug/L 97
48) 2-Hexanone	8.17	43	1934	0.457	ug/L # 60

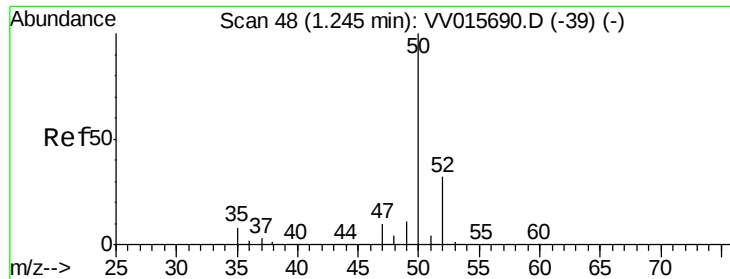
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042520\
Data File : VV015714.D
Acq On : 25 Apr 2020 23:18
Operator : SY/MD
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Quant Time: Apr 27 01:19:20 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR042220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Apr 27 01:12:28 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.00	129	3604650	558.291	ug/L #	12
51) Chlorobenzene	8.90	112	132683	5.264	ug/L	98
65) 1,2-Dichlorobenzene	11.67	146	2611	0.153	ug/L	88

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



#3

Chloromethane

Concen: 0.084 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV015714.D

Acq: 25 Apr 2020 23:18

Instrument :

MSVOA_V

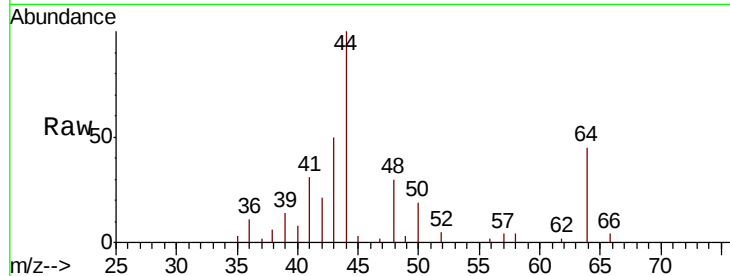
ClientSampleId :

Tot Ion: 50 Resp: 806

Ion Ratio Lower Upper

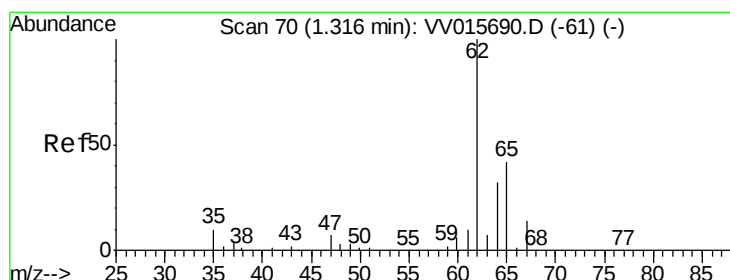
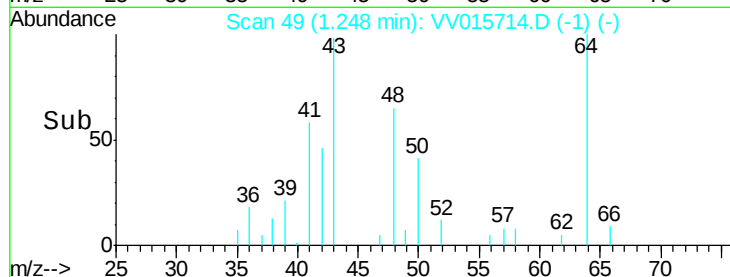
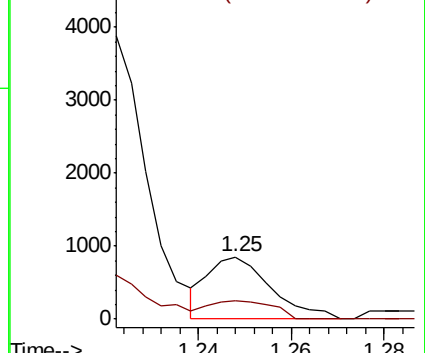
50 100

52 28.9 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: 143.687 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV015714.D

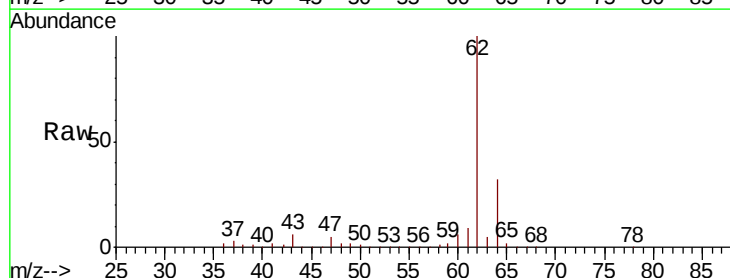
Acq: 25 Apr 2020 23:18

Tgt Ion: 62 Resp: 1466694

Ion Ratio Lower Upper

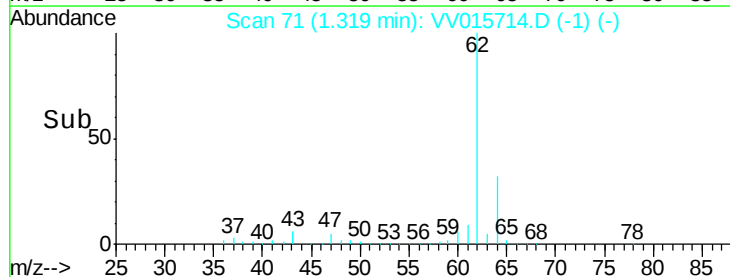
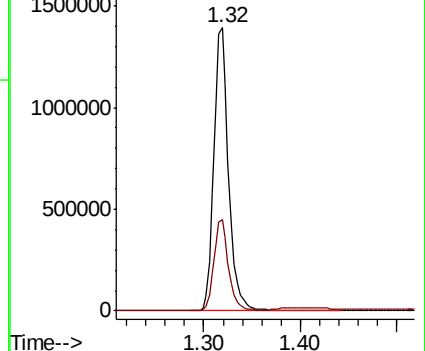
62 100

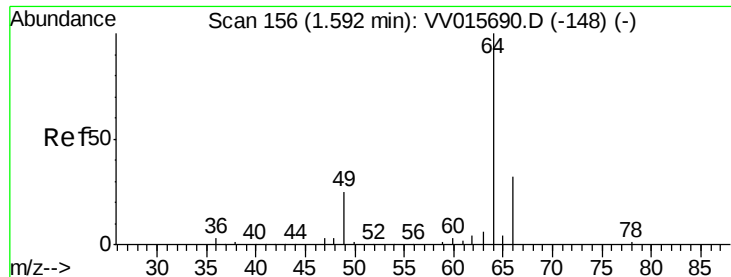
64 32.3 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0





#8

Chloroethane

Concen: 9.636 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.19 min

Lab File: VV015714.D

Acq: 25 Apr 2020 23:18

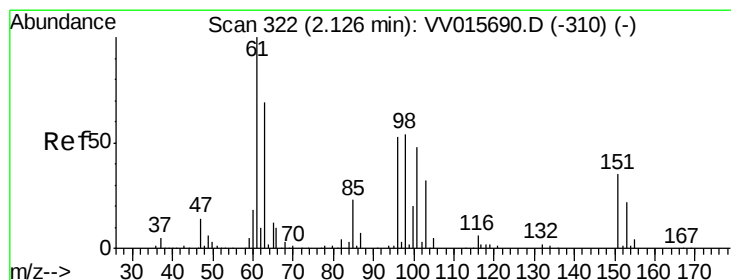
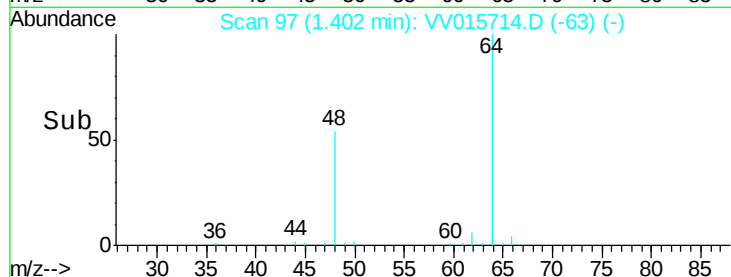
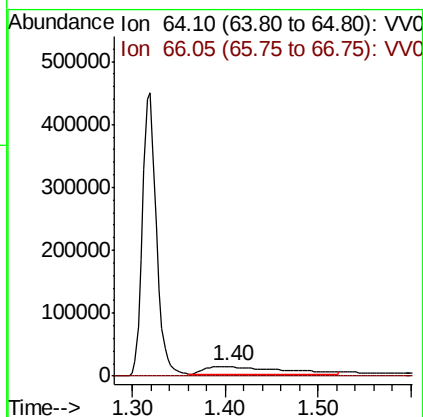
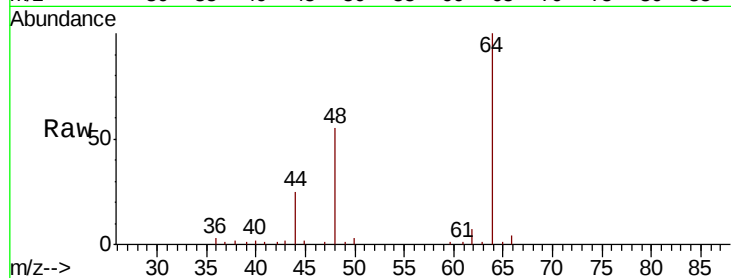
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 64603

Ion Ratio Lower Upper

64 100

66 4.4 22.3 41.5#



#12

1,1-Dichloroethene

Concen: 8.986 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.01 min

Lab File: VV015714.D

Acq: 25 Apr 2020 23:18

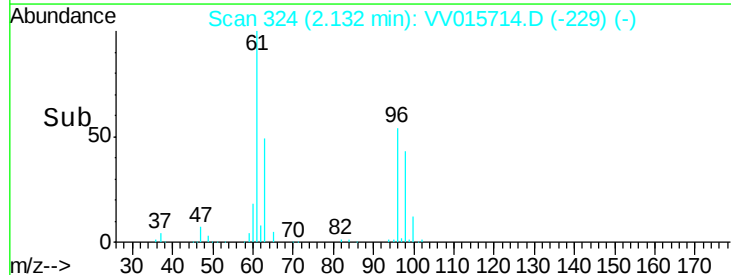
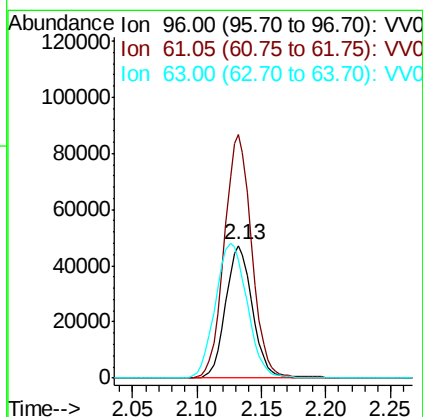
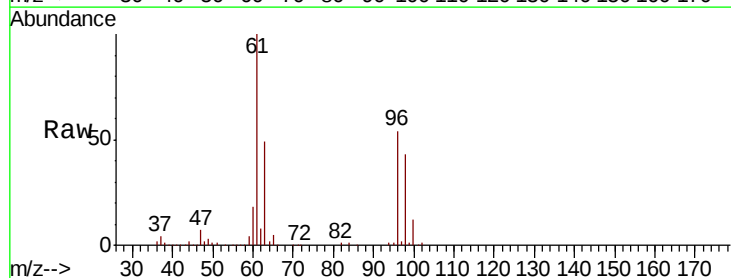
Tgt Ion: 96 Resp: 67459

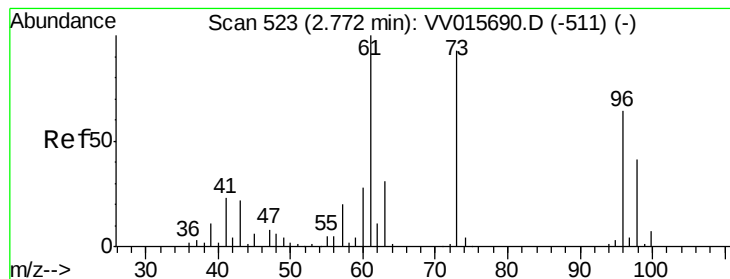
Ion Ratio Lower Upper

96 100

61 183.9 130.1 241.7

63 89.7 91.4 169.8#





#18

trans-1,2-Dichloroethene

Concen: 11.528 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.01 min

Lab File: VV015714.D

Acq: 25 Apr 2020 23:18

Instrument :
MSVOA_V
ClientSampled :

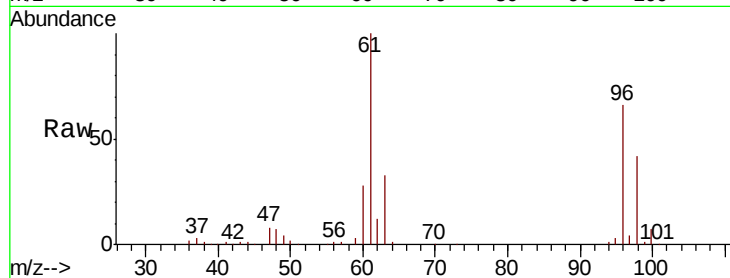
Tot Ion: 96 Resp: 96897

Ion Ratio Lower Upper

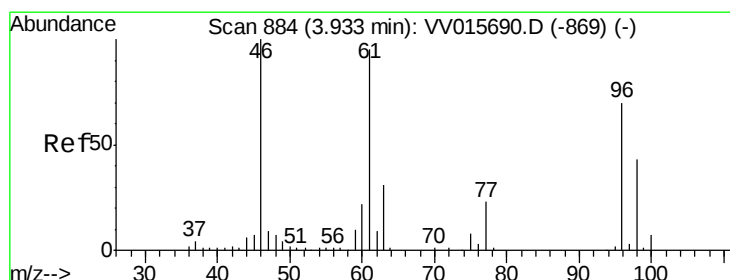
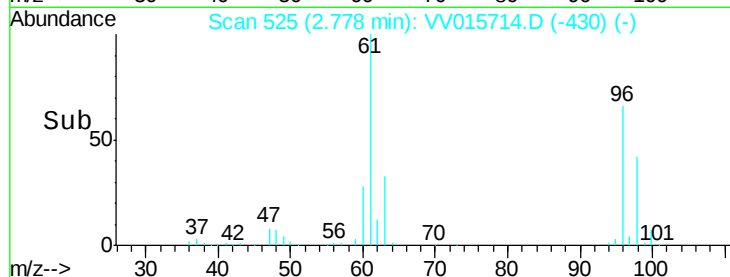
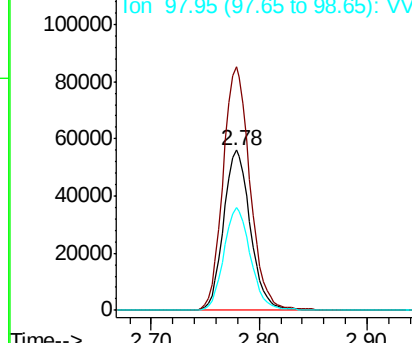
96 100

61 152.1 105.5 195.9

98 64.0 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: 1241.901 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.01 min

Lab File: VV015714.D

Acq: 25 Apr 2020 23:18

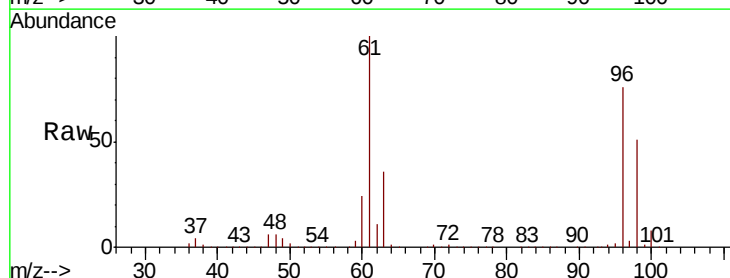
Tgt Ion: 96 Resp: 11541542

Ion Ratio Lower Upper

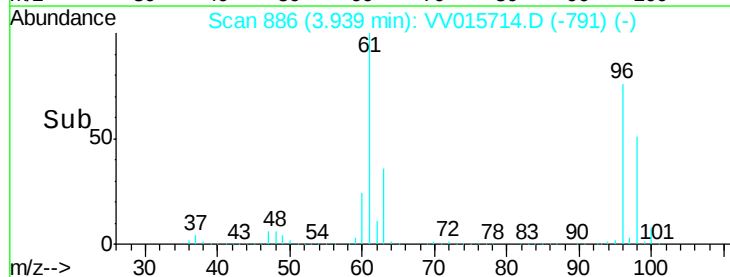
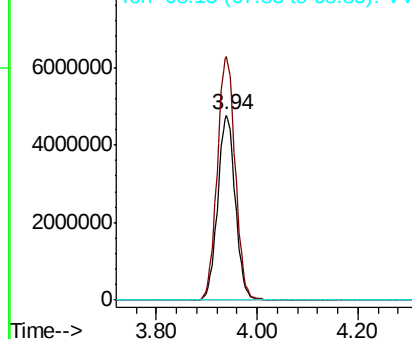
96 100

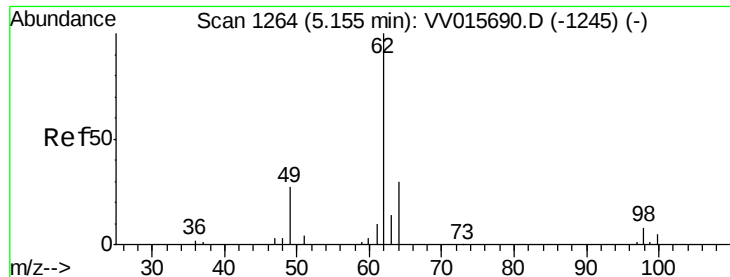
61 131.8 96.4 179.0

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

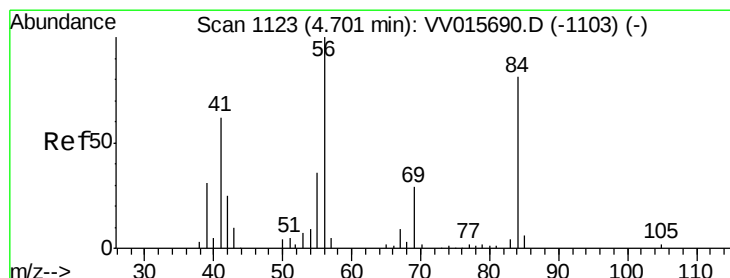
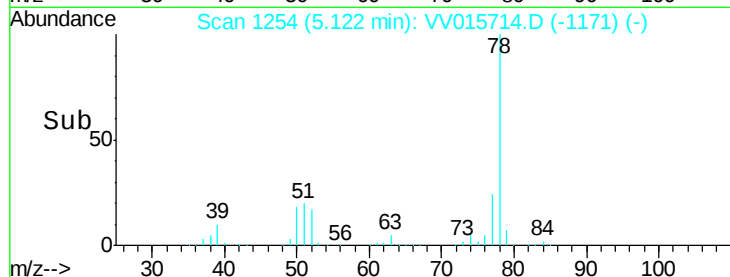
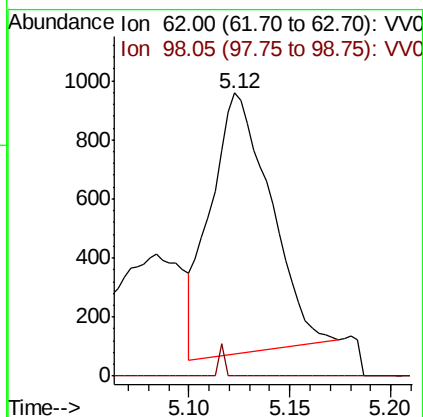
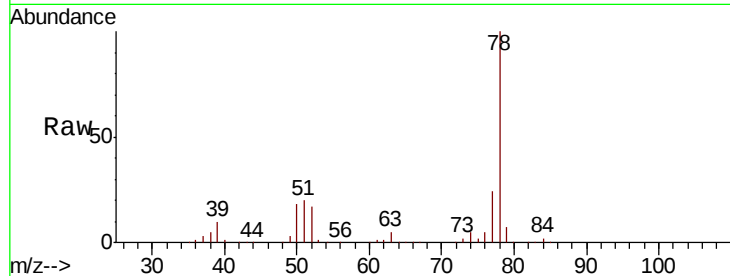




#27
 1,2-Dichloroethane
 Concen: 0.158 ug/L
 RT: 5.12 min Scan# 1254
 Delta R.T. -0.03 min
 Lab File: VV015714.D
 Acq: 25 Apr 2020 23:18

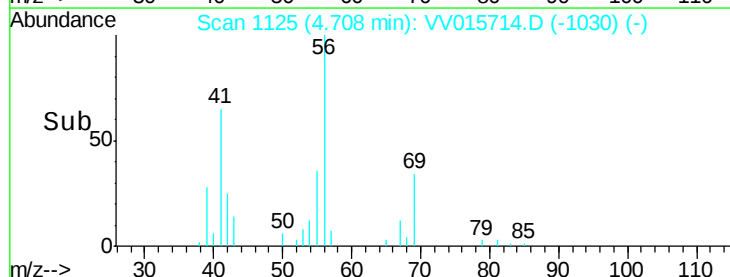
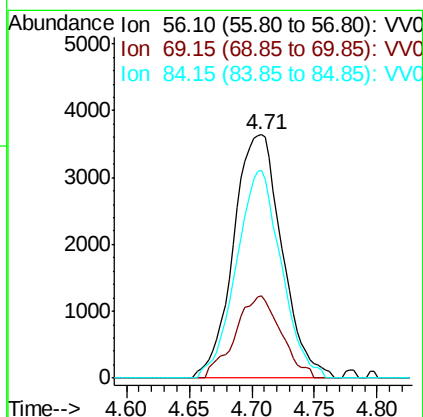
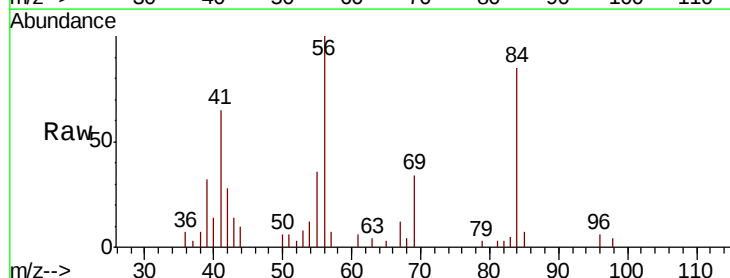
Instrument :
 MSVOA_V
 ClientSampled :

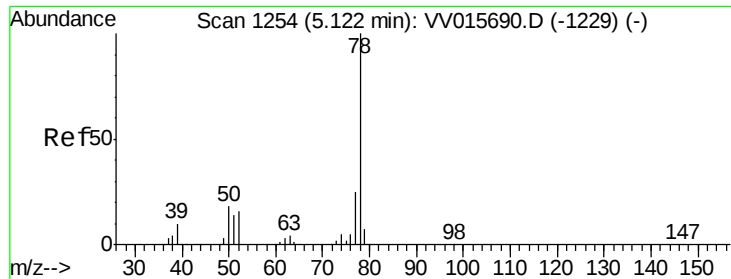
Tot Ion: 62 Resp: 1819
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.3 9.5#



#30
 Cyclohexane
 Concen: 0.641 ug/L
 RT: 4.71 min Scan# 1125
 Delta R.T. 0.01 min
 Lab File: VV015714.D
 Acq: 25 Apr 2020 23:18

Tgt Ion: 56 Resp: 9788
 Ion Ratio Lower Upper
 56 100
 69 31.9 23.9 35.9
 84 79.3 66.9 100.3





#33

Benzene

Concen: 5.491 ug/L

RT: 5.13 min Scan# 1255

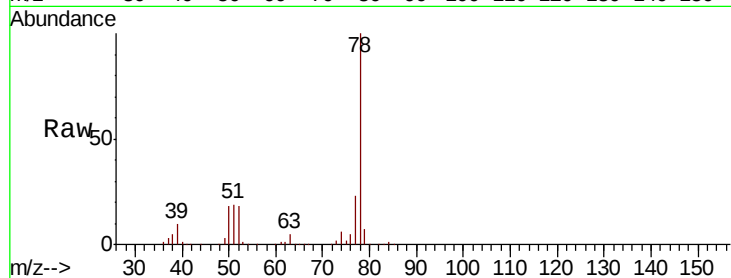
Delta R.T. 0.00 min

Lab File: VV015714.D

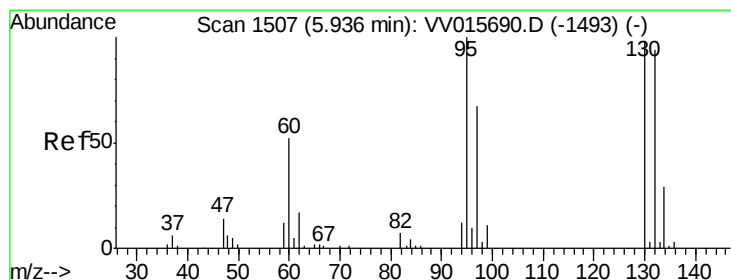
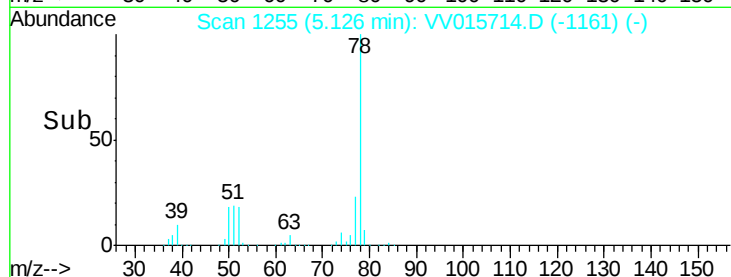
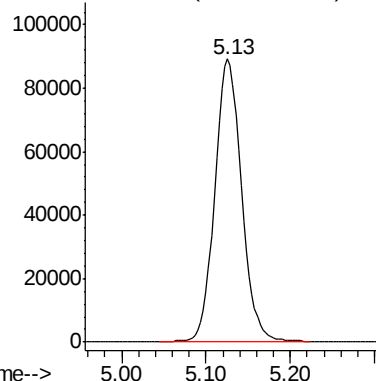
Acq: 25 Apr 2020 23:18

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 78 Resp: 197731



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 207.153 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV015714.D

Acq: 25 Apr 2020 23:18

Tgt Ion: 95 Resp: 2060088

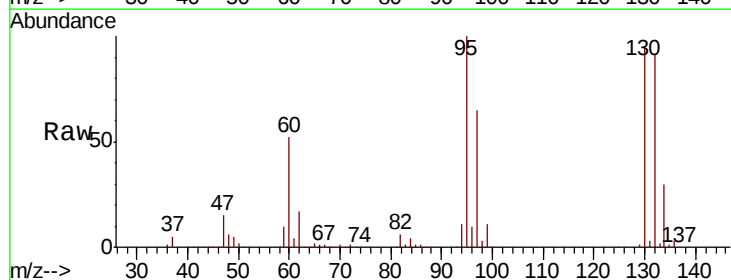
Ion	Ratio	Lower	Upper
95	100		
97	64.6	44.7	82.9
132	91.3	65.2	121.0
130	95.4	65.0	120.6

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

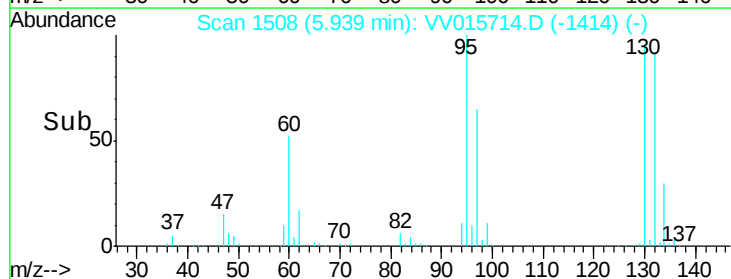


Abundance Ion 95.00 (94.70 to 95.70): VV0

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



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

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

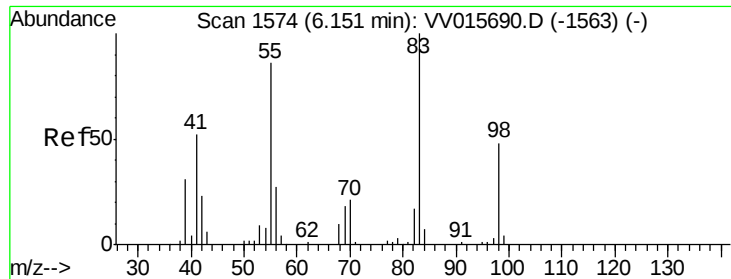
Ion 129.95 (129.65 to 130.65): VV0

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

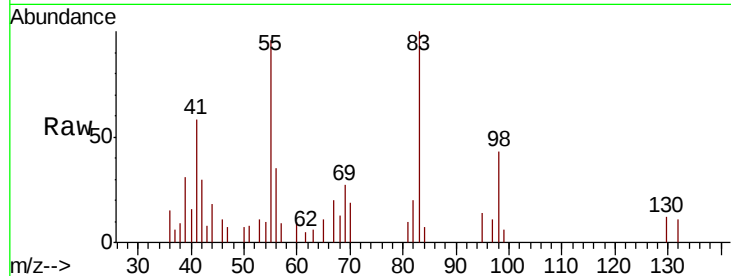
Ion 129.95 (129.65 to 130.65): VV0



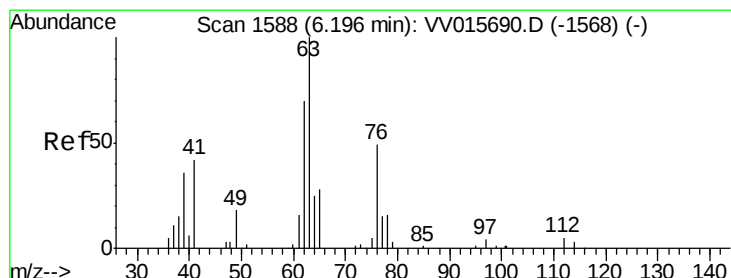
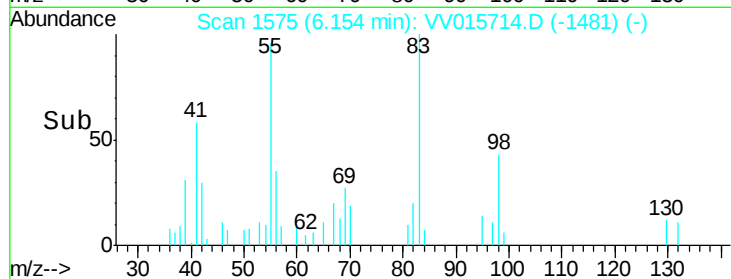
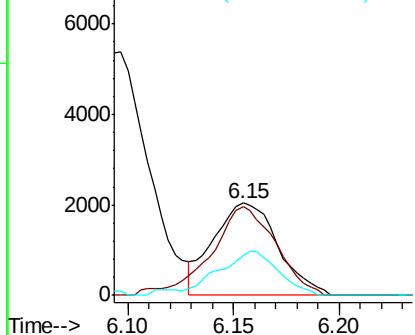
#35
Methvlcvclohexane
Concen: 0.284 ug/L
RT: 6.15 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VV015714.D
Acq: 25 Apr 2020 23:18

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 83 Resp: 4332
Ion Ratio Lower Upper
83 100
55 96.5 66.6 99.8
98 44.2 39.5 59.3

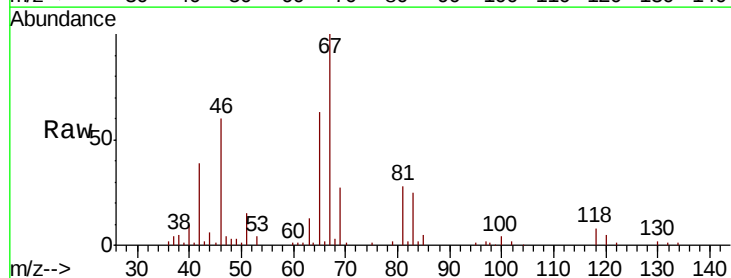


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

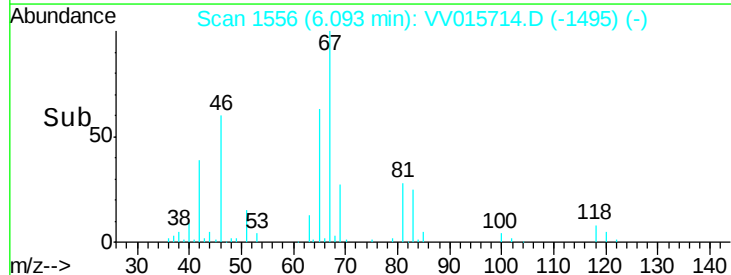
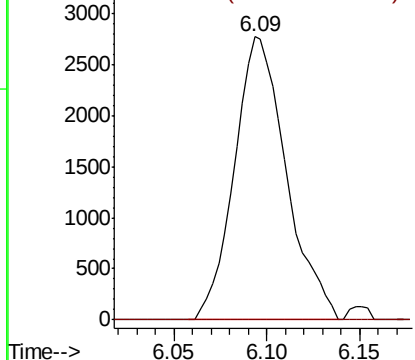


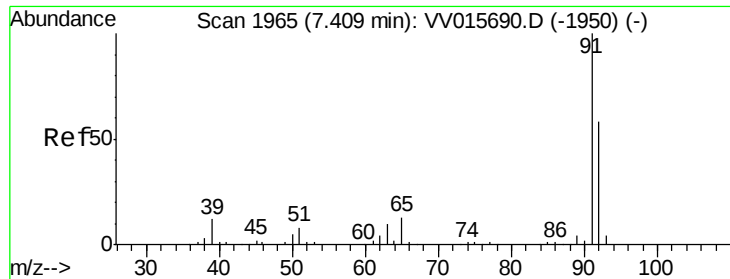
#37
1,2-Dichloropropane
Concen: 0.590 ug/L
RT: 6.09 min Scan# 1556
Delta R.T. -0.10 min
Lab File: VV015714.D
Acq: 25 Apr 2020 23:18

Tgt Ion: 63 Resp: 5396
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#



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





#42

Toluene

Concen: 5.463 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV015714.D

Acq: 25 Apr 2020 23:18

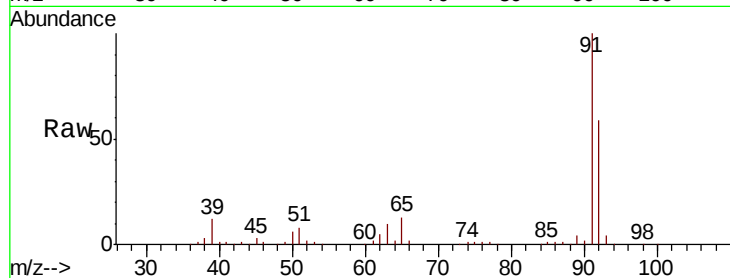
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 210195

Ion Ratio Lower Upper

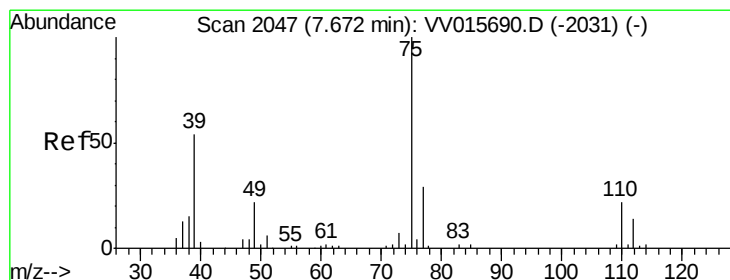
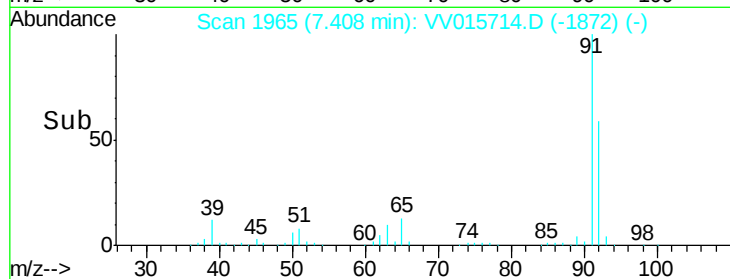
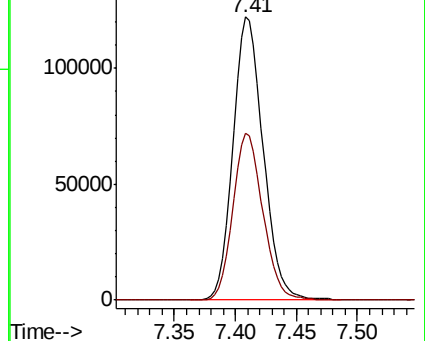
91 100

92 59.0 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.056 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.03 min

Lab File: VV015714.D

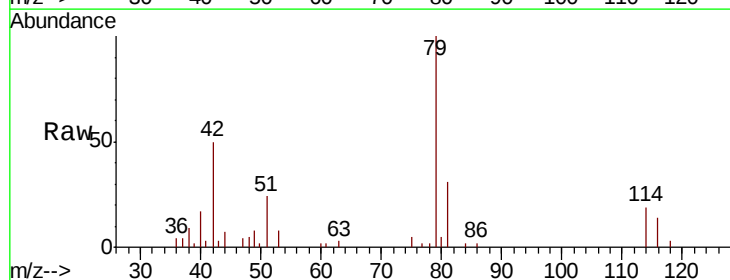
Acq: 25 Apr 2020 23:18

Tgt Ion: 75 Resp: 603

Ion Ratio Lower Upper

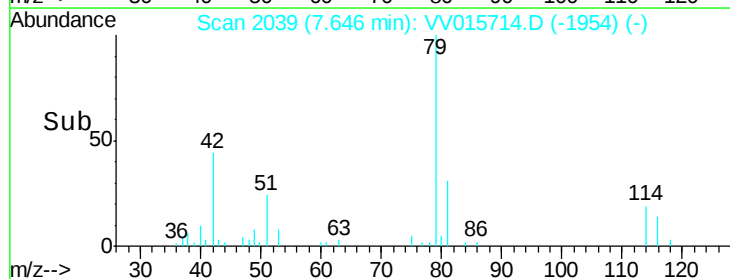
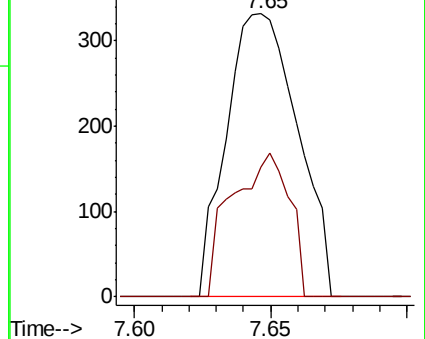
75 100

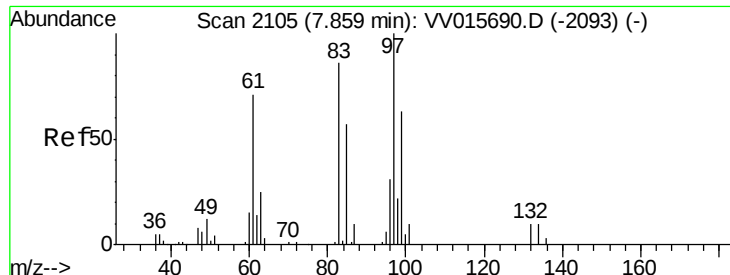
77 45.8 21.8 40.6#



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: 5.866 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.14 min

Lab File: VV015714.D

Acq: 25 Apr 2020 23:18

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 97 Resp: 36598

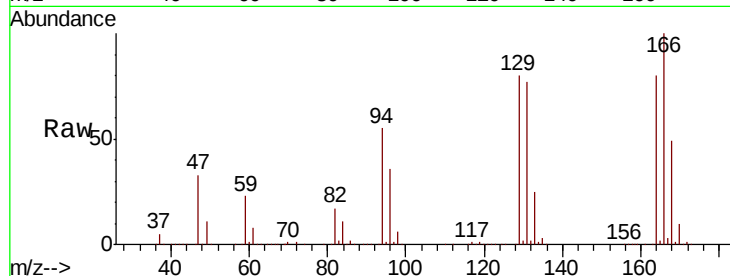
Ion Ratio Lower Upper

97 100

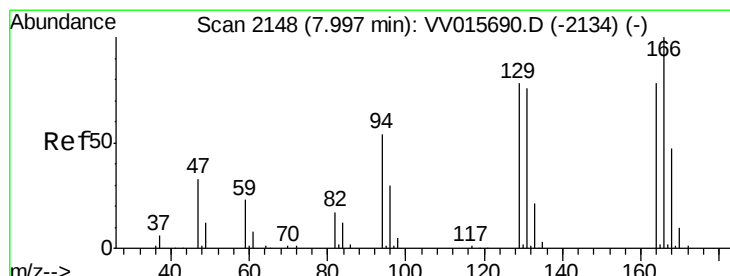
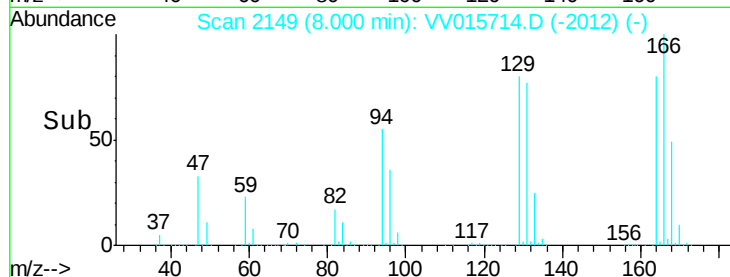
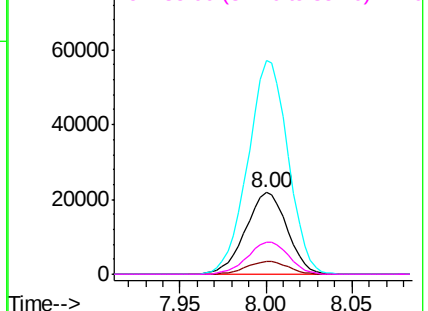
99 15.4 45.4 84.4#

83 261.9 61.3 113.9#

85 39.0 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: 511.993 ug/L

RT: 8.00 min Scan# 2150

Delta R.T. 0.01 min

Lab File: VV015714.D

Acq: 25 Apr 2020 23:18

Tgt Ion: 164 Resp: 3666115

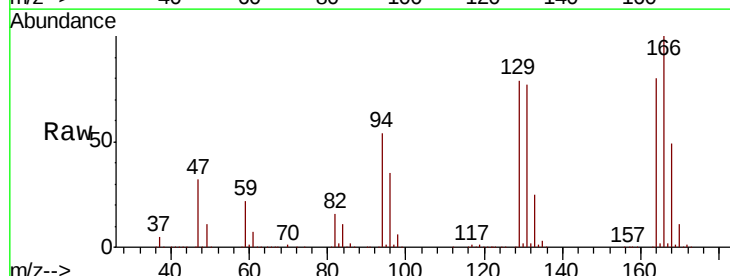
Ion Ratio Lower Upper

164 100

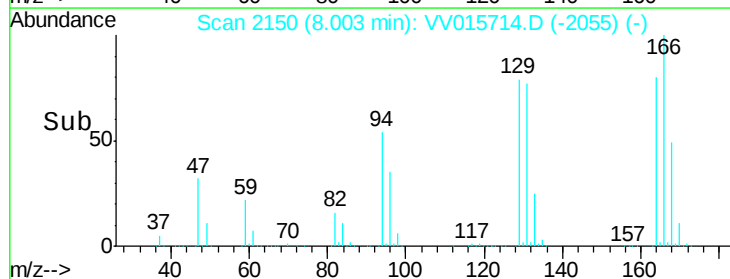
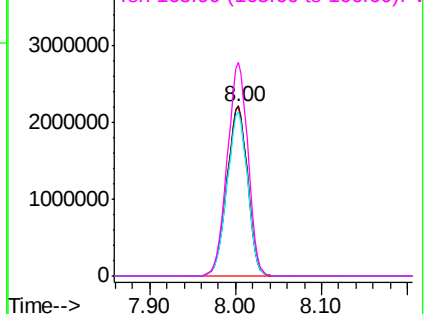
129 99.8 66.7 123.9

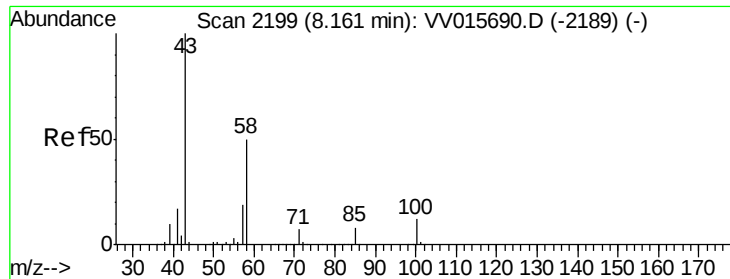
131 96.6 66.6 123.6

166 125.7 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

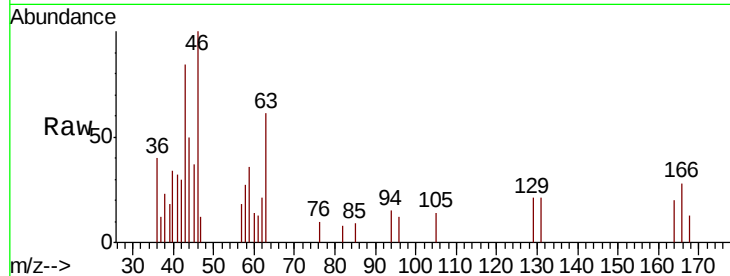




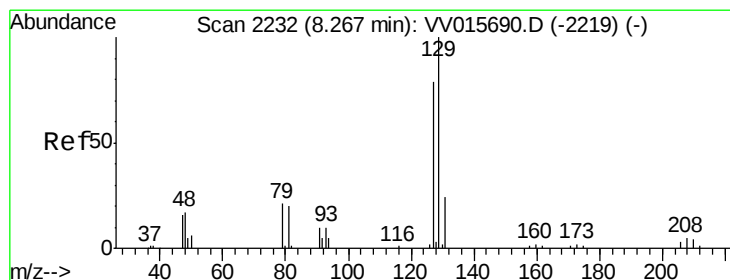
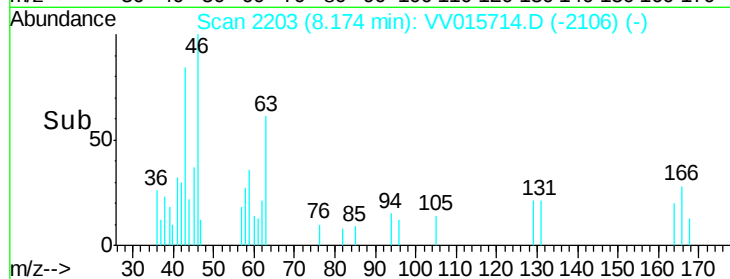
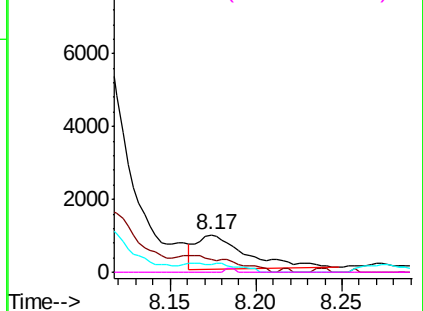
#48
2-Hexanone
Concen: 0.457 ug/L
RT: 8.17 min Scan# 2203
Delta R.T. 0.01 min
Lab File: VV015714.D
Acq: 25 Apr 2020 23:18

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 1934
Ion Ratio Lower Upper
43 100
58 11.1 41.1 61.7#
57 19.8 15.0 22.4
100 2.3 9.0 13.4#

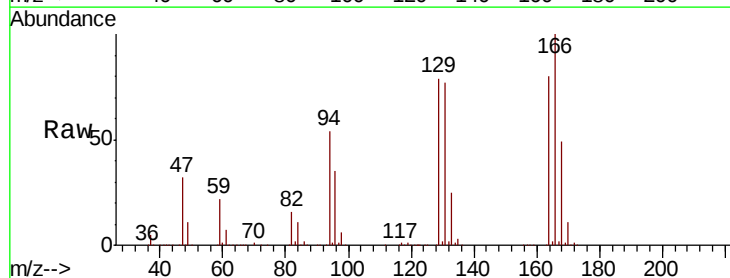


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

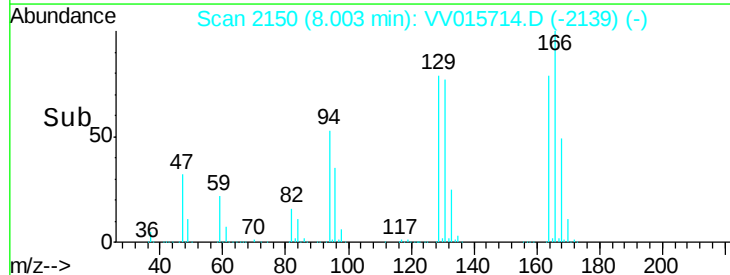
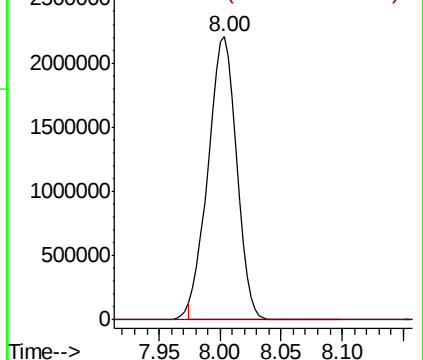


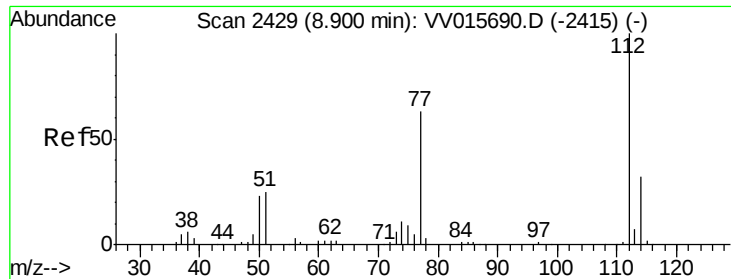
#49
Dibromochloromethane
Concen: 558.291 ug/L
RT: 8.00 min Scan# 2150
Delta R.T. -0.26 min
Lab File: VV015714.D
Acq: 25 Apr 2020 23:18

Tgt Ion: 129 Resp: 3604650
Ion Ratio Lower Upper
129 100
127 0.0 52.6 97.8#



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

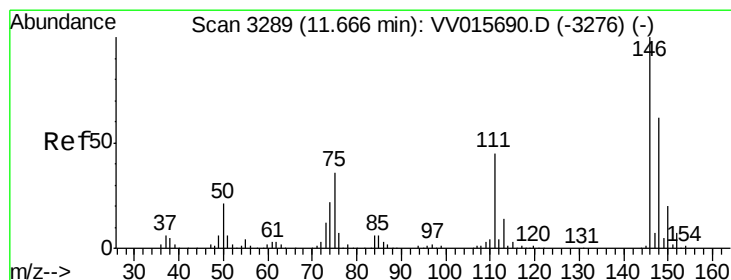
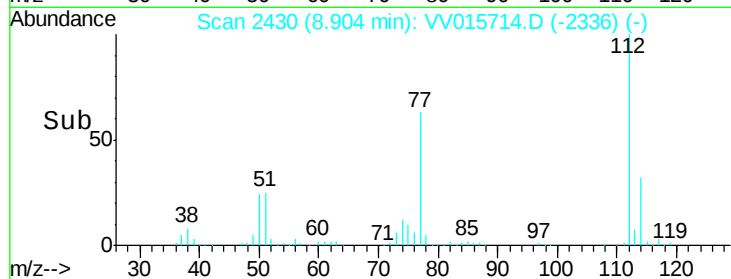
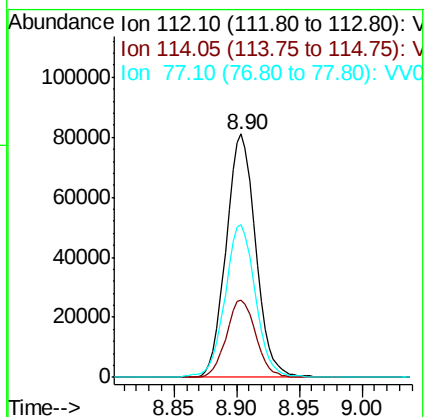
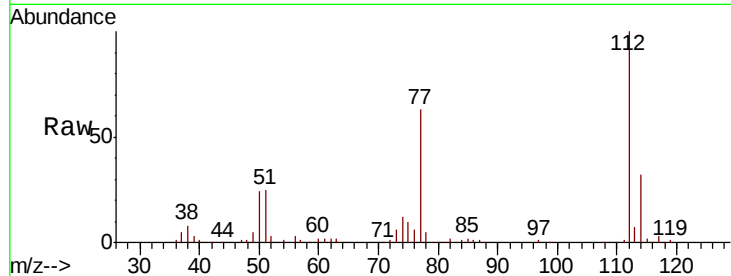




#51
Chlorobenzene
Concen: 5.264 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV015714.D
Acq: 25 Apr 2020 23:18

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:112 Resp: 132683
Ion Ratio Lower Upper
112 100
114 31.9 21.6 40.2
77 62.8 48.9 73.3



#65
1,2-Dichlorobenzene
Concen: 0.153 ug/L
RT: 11.67 min Scan# 3289
Delta R.T. -0.00 min
Lab File: VV015714.D
Acq: 25 Apr 2020 23:18

Tgt Ion:146 Resp: 2611
Ion Ratio Lower Upper
146 100
111 48.9 34.7 52.1
148 75.8 51.3 76.9

