

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052120\
 Data File : VV016152.D
 Acq On : 21 May 2020 14:42
 Operator : SY/MD
 Sample : L2725-01DL 10X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 22 01:55:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 22 01:50:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	144774	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	138799	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	66170	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	30196	3.84	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.80%
7) Chloroethane-d5	1.58	69	34352	4.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.20%
11) 1,1-Dichloroethene-d2	2.13	63	54947	3.25	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.00%
20) 2-Butanone-d5	3.94	46	94014	41.96	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	83.92%
24) Chloroform-d	4.38	84	85112	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.20%
26) 1,2-Dichloroethane-d4	5.06	65	43414	4.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.20%
32) Benzene-d6	5.08	84	159501	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.60%
36) 1,2-Dichloropropane-d6	6.10	67	50577	5.02	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.40%
41) Toluene-d8	7.34	98	139727	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.40%
45) trans-1,3-Dichloropropene-	7.65	79	13959	3.53	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	70.60%
48) 2-Hexanone-d5	8.12	63	71804	41.31	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.62%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	30831	4.35	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.00%
65) 1,2-Dichlorobenzene-d4	11.65	152	51390	4.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	13150	1.224	ug/L #	65
8) Chloroethane	1.47	64	83392	10.898	ug/L #	50
12) 1,1-Dichloroethene	2.13	96	1250	0.157	ug/L #	1
16) Methylene chloride	2.53	84	4502	0.472	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	1788	0.203	ug/L	89
22) cis-1,2-Dichloroethene	3.94	96	76765	8.329	ug/L	97
27) 1,2-Dichloroethane	5.16	62	4160	0.363	ug/L #	94
33) Benzene	5.13	78	3910	0.112	ug/L	100
34) Trichloroethene	5.94	95	16002	1.605	ug/L	93
35) Methylcyclohexane	6.10	83	12037	0.798	ug/L #	17
37) 1,2-Dichloropropane	6.10	63	6111	0.689	ug/L #	87
46) trans-1,3-Dichloropropene	7.65	75	604	0.057	ug/L #	69
47) 1,1,2-Trichloroethane	7.87	97	1129	0.191	ug/L	95
49) Tetrachloroethene	8.00	164	1044	0.150	ug/L	87
50) 2-Hexanone	8.12	43	9896	2.531	ug/L #	78
51) Dibromochloromethane	8.00	129	987	0.148	ug/L #	9
53) Chlorobenzene	8.91	112	18984	0.797	ug/L	99

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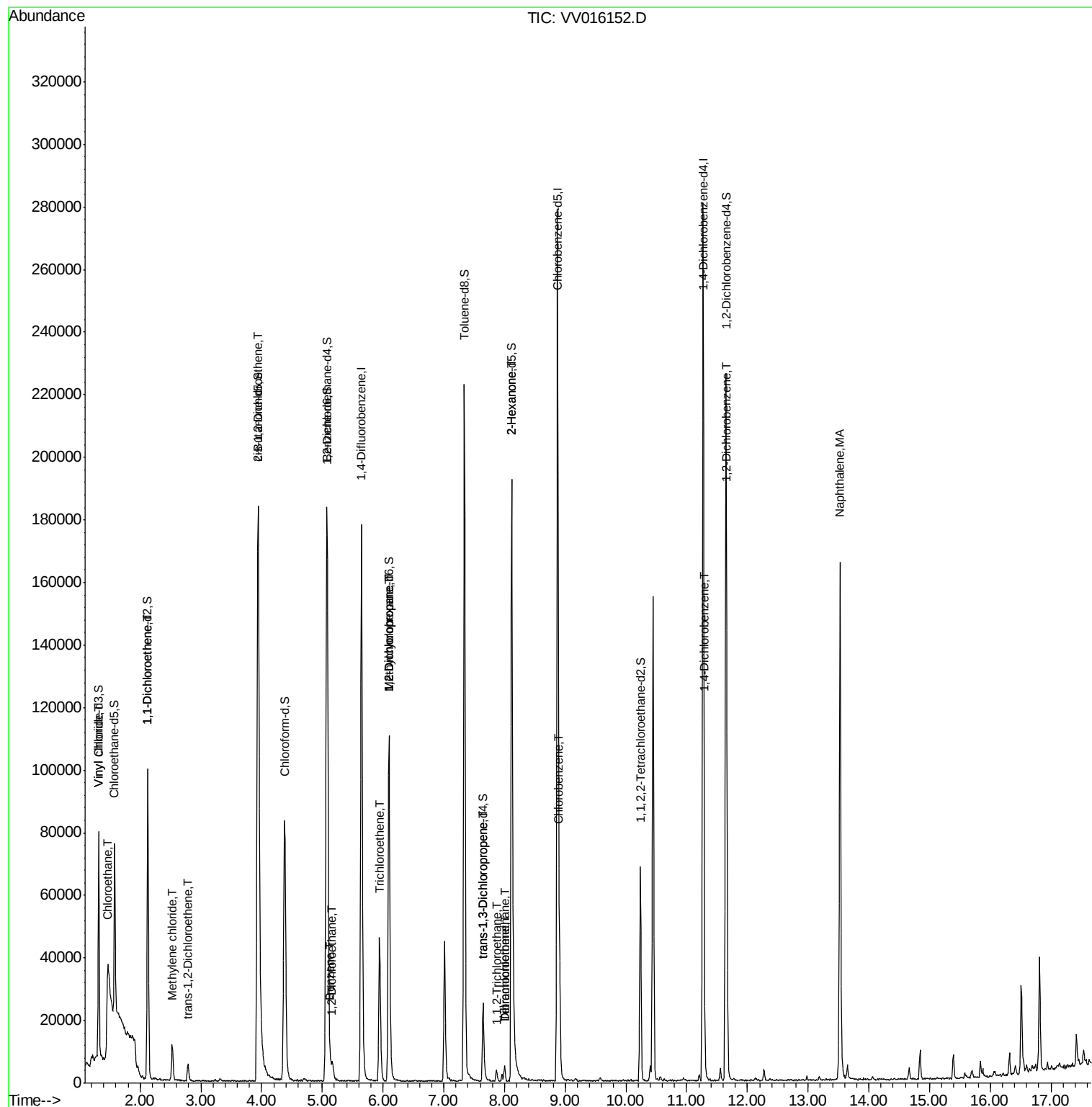
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,4-Dichlorobenzene	11.30	146	3876	0.216	ug/L	92
66) 1,2-Dichlorobenzene	11.67	146	14086	0.873	ug/L	96
70) Naphthalene	13.53	128	127923	7.182	ug/L	98

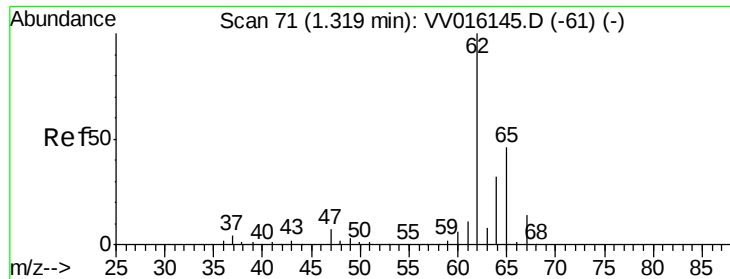
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.224 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV016152.D

Acq: 21 May 2020 14:42

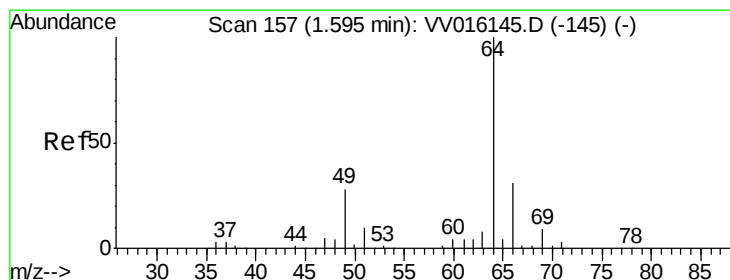
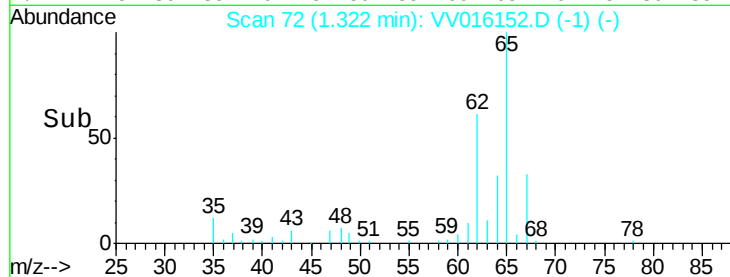
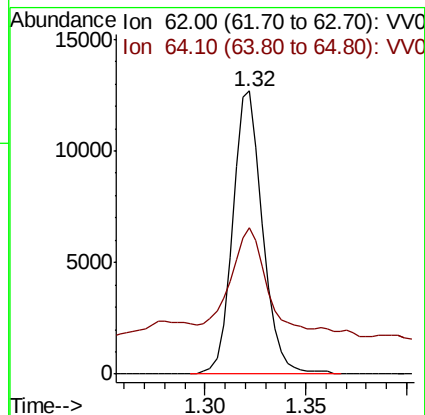
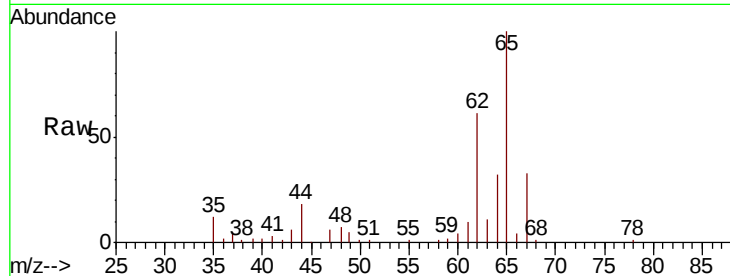
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 13150

Ion Ratio Lower Upper

62 100

64 51.5 22.4 41.6#



#8

Chloroethane

Concen: 10.898 ug/L

RT: 1.47 min Scan# 118

Delta R.T. -0.13 min

Lab File: VV016152.D

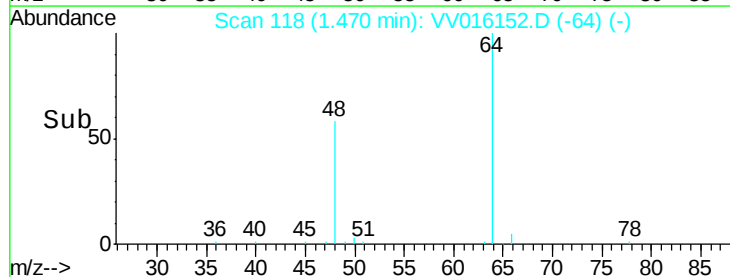
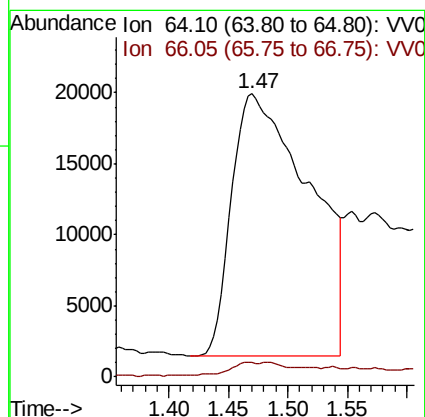
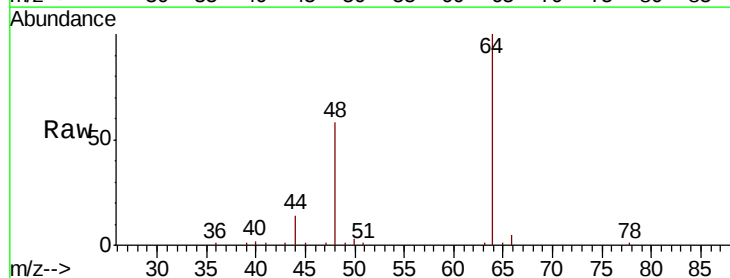
Acq: 21 May 2020 14:42

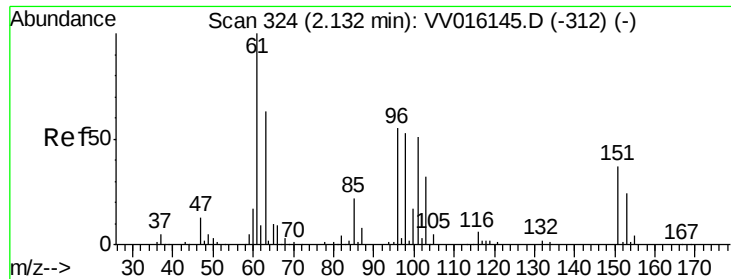
Tgt Ion: 64 Resp: 83392

Ion Ratio Lower Upper

64 100

66 5.0 23.6 43.8#

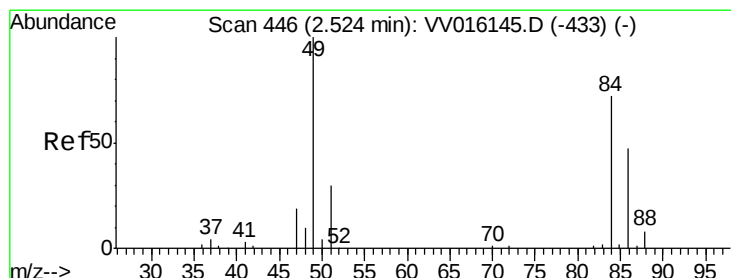
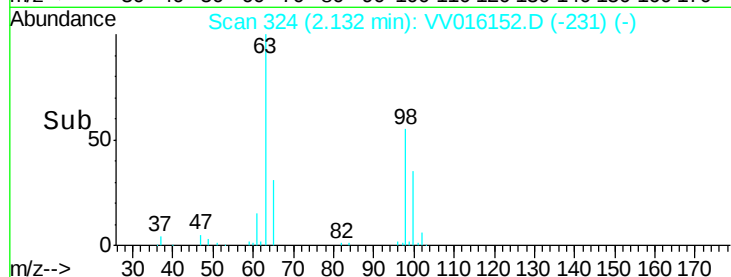
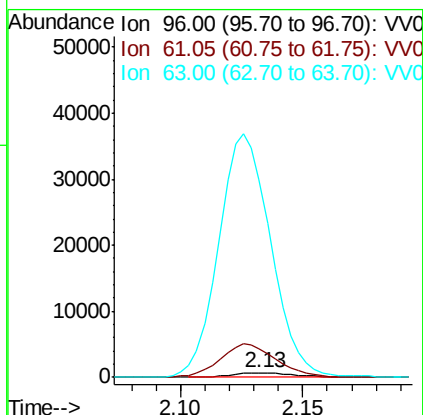
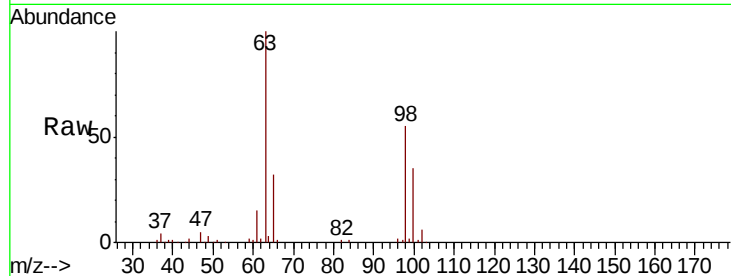




#12
 1,1-Dichloroethene
 Concen: 0.157 ug/L
 RT: 2.13 min Scan# 324
 Delta R.T. 0.00 min
 Lab File: VV016152.D
 Acq: 21 May 2020 14:42

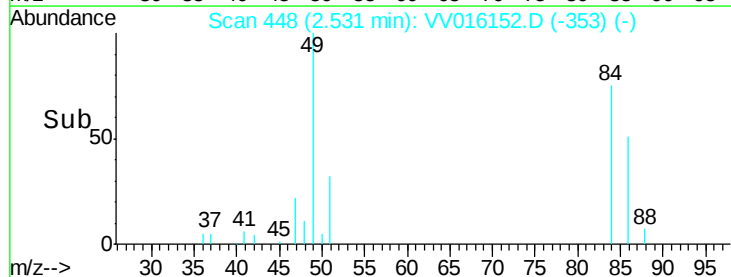
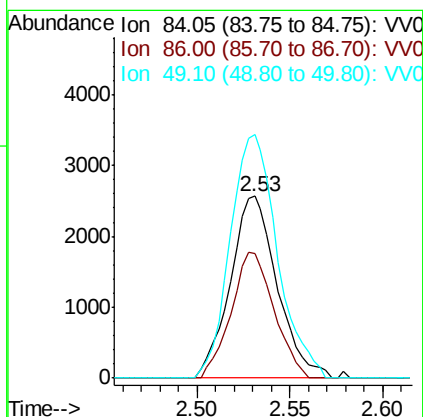
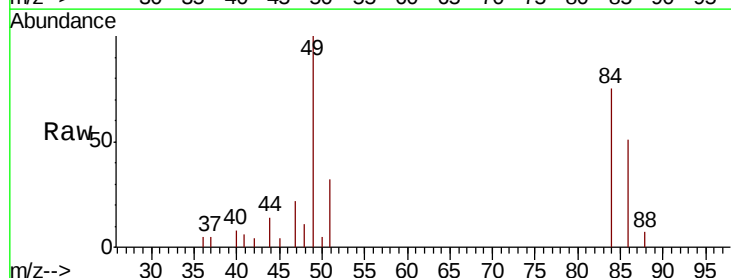
Instrument :
 MSVOA_V
 ClientSampleId :

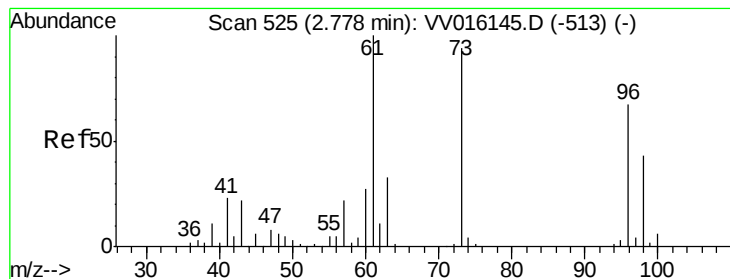
Tot Ion: 96 Resp: 1250
 Ion Ratio Lower Upper
 96 100
 61 591.8 139.9 259.7#
 63 4077.4 106.4 197.6#



#16
 Methylene chloride
 Concen: 0.472 ug/L
 RT: 2.53 min Scan# 448
 Delta R.T. 0.01 min
 Lab File: VV016152.D
 Acq: 21 May 2020 14:42

Tgt Ion: 84 Resp: 4502
 Ion Ratio Lower Upper
 84 100
 86 68.3 45.6 84.8
 49 134.0 93.6 173.8





#18

trans-1,2-Dichloroethene

Concen: 0.203 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.01 min

Lab File: VV016152.D

Acq: 21 May 2020 14:42

Instrument :
MSVOA_V
ClientSampleId :

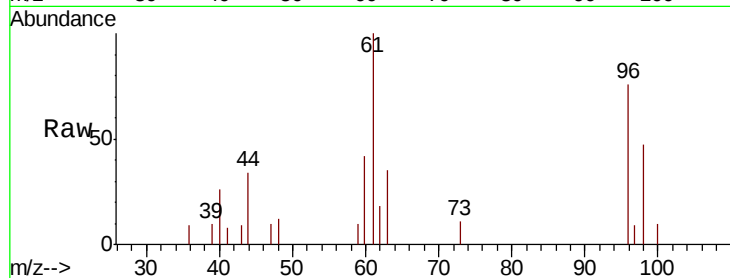
Tot Ion: 96 Resp: 1788

Ion Ratio Lower Upper

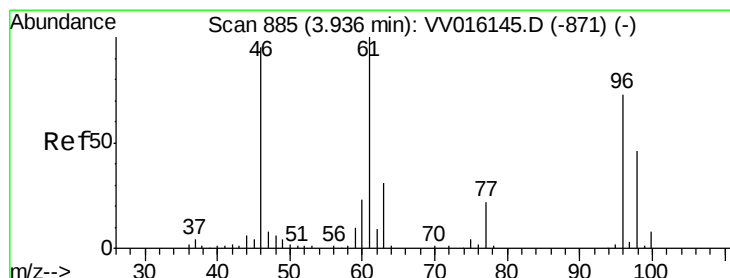
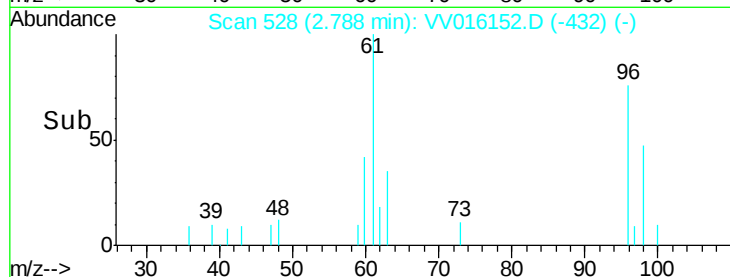
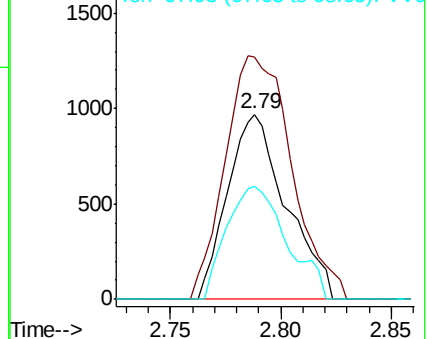
96 100

61 131.4 105.3 195.5

98 61.1 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



#22

cis-1,2-Dichloroethene

Concen: 8.329 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.01 min

Lab File: VV016152.D

Acq: 21 May 2020 14:42

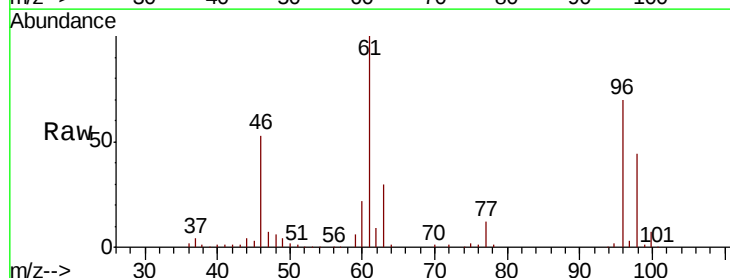
Tgt Ion: 96 Resp: 76765

Ion Ratio Lower Upper

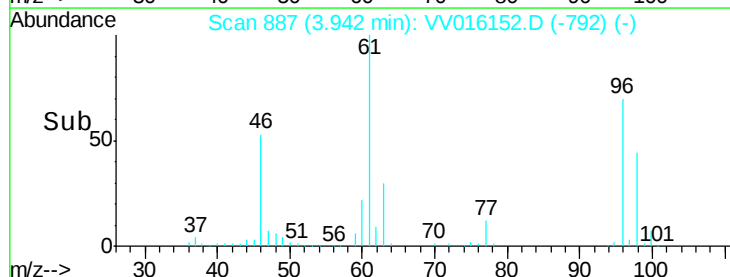
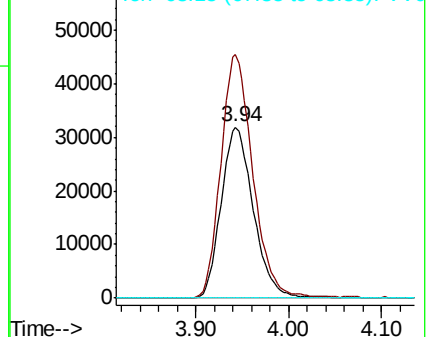
96 100

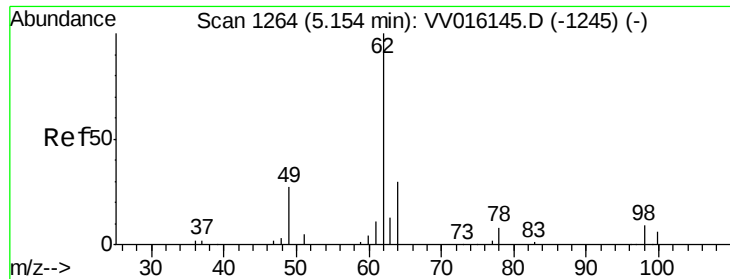
61 142.2 97.2 180.6

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

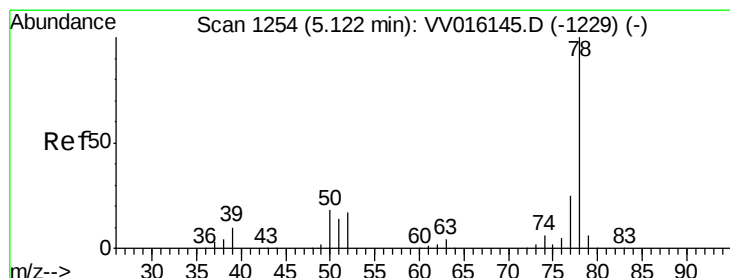
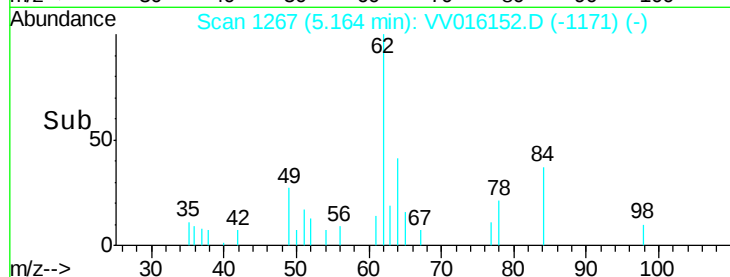
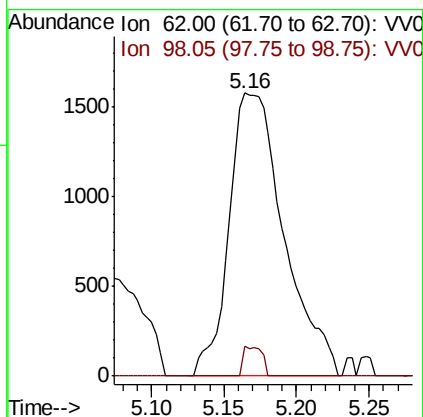
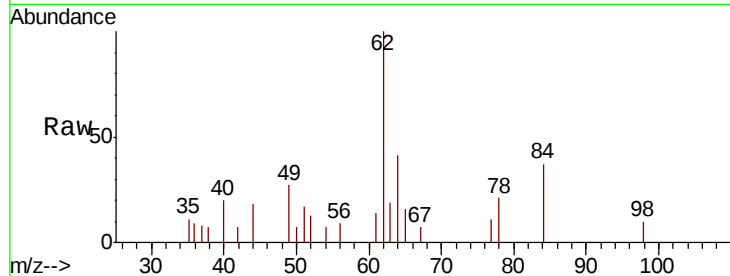




#27
 1,2-Dichloroethane
 Concen: 0.363 ug/L
 RT: 5.16 min Scan# 1267
 Delta R.T. 0.01 min
 Lab File: VV016152.D
 Acq: 21 May 2020 14:42

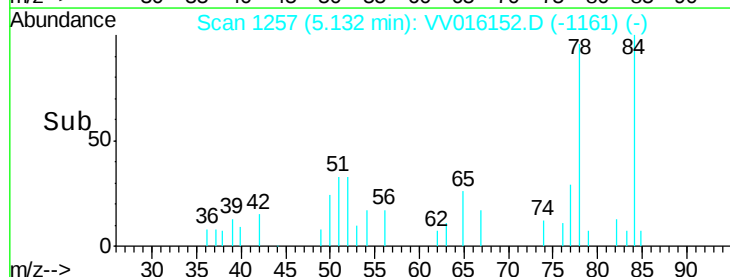
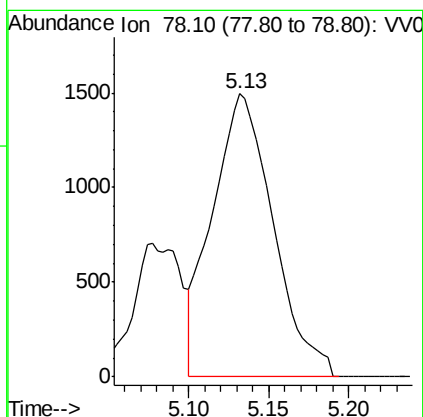
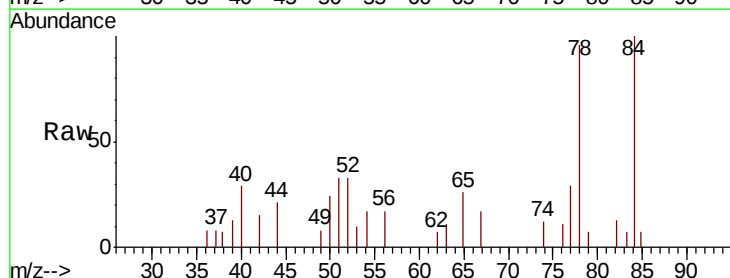
Instrument :
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 ClientSampleId :

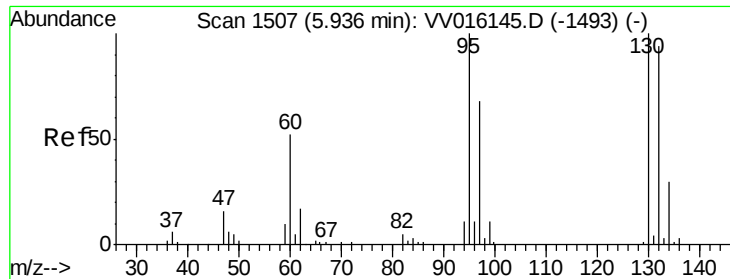
Tot Ion: 62 Resp: 4160
 Ion Ratio Lower Upper
 62 100
 98 10.4 6.7 10.1#



#33
 Benzene
 Concen: 0.112 ug/L
 RT: 5.13 min Scan# 1257
 Delta R.T. 0.01 min
 Lab File: VV016152.D
 Acq: 21 May 2020 14:42

Tgt Ion: 78 Resp: 3910





#34

Trichloroethene

Concen: 1.605 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV016152.D

Acq: 21 May 2020 14:42

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 16002

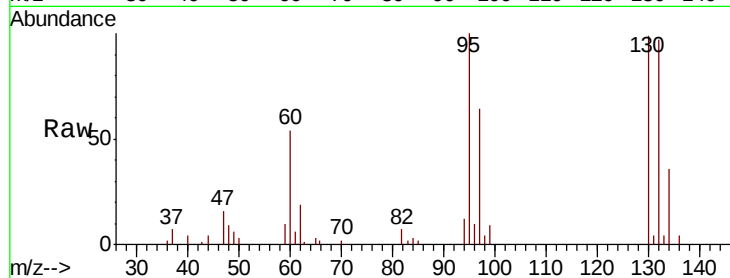
Ion Ratio Lower Upper

95 100

97 63.8 43.3 80.5

132 97.2 60.3 112.1

130 99.2 66.0 122.6

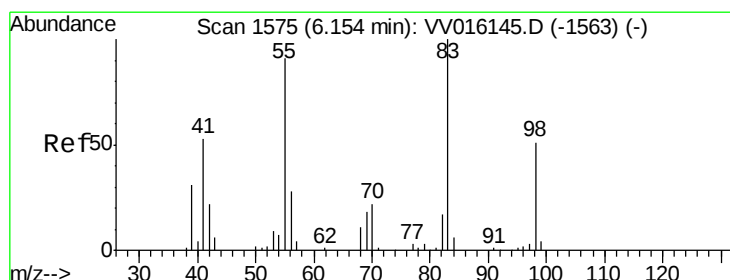
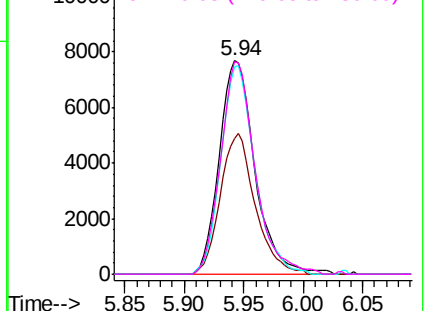
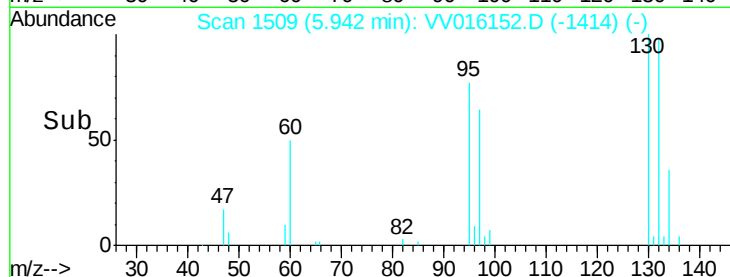


Abundance Ion 95.00 (94.70 to 95.70): VV016152.D (-1493) (-)

Ion 96.95 (96.65 to 97.65): VV016152.D (-1493) (-)

Ion 131.95 (131.65 to 132.65): VV016152.D (-1493) (-)

Ion 129.95 (129.65 to 130.65): VV016152.D (-1493) (-)



#35

Methylcyclohexane

Concen: 0.798 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.06 min

Lab File: VV016152.D

Acq: 21 May 2020 14:42

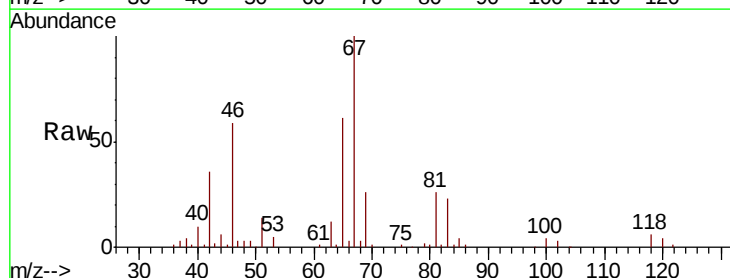
Tgt Ion: 83 Resp: 12037

Ion Ratio Lower Upper

83 100

55 0.2 66.2 99.2#

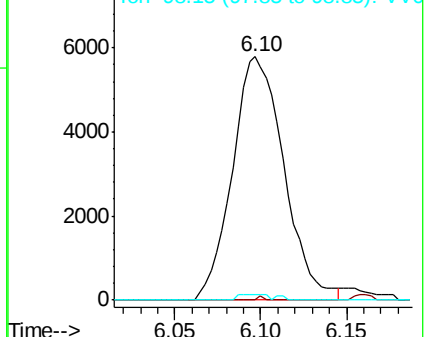
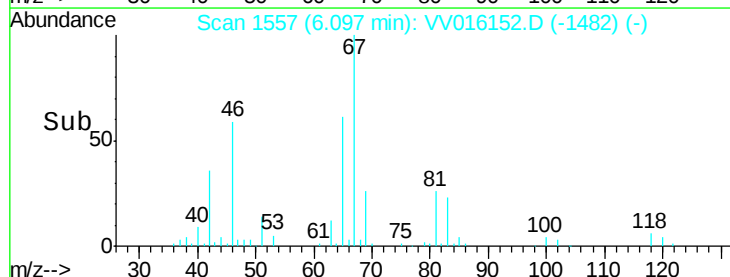
98 1.2 37.9 56.9#

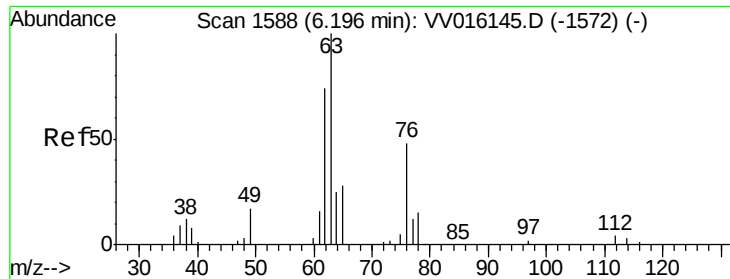


Abundance Ion 83.15 (82.85 to 83.85): VV016152.D (-1482) (-)

Ion 55.10 (54.80 to 55.80): VV016152.D (-1482) (-)

Ion 98.15 (97.85 to 98.85): VV016152.D (-1482) (-)

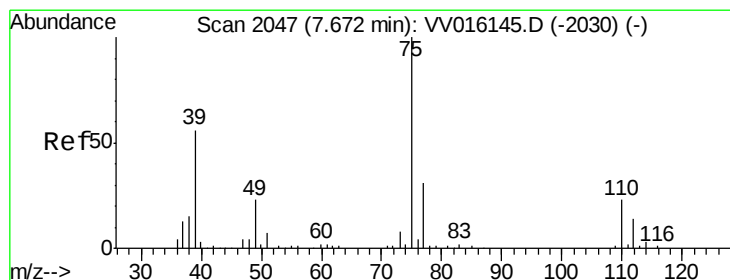
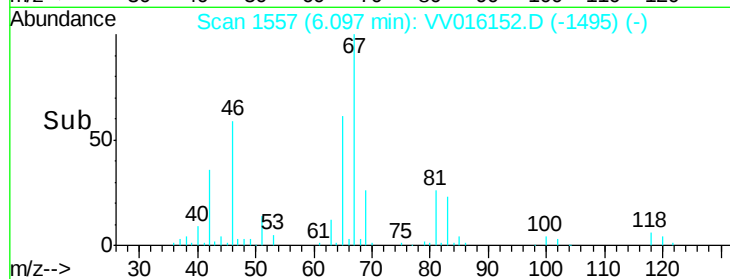
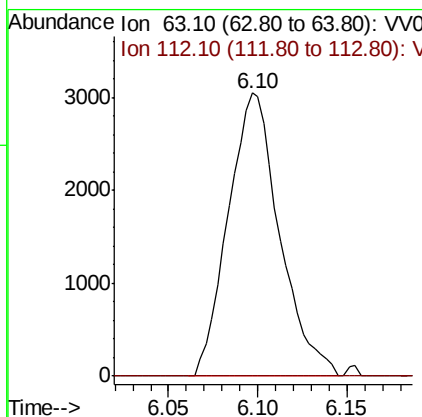
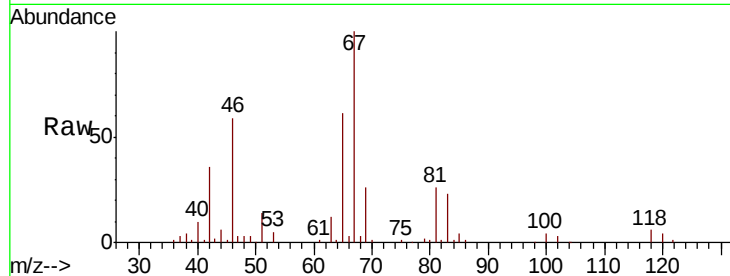




#37
 1,2-Dichloropropane
 Concen: 0.689 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.10 min
 Lab File: VV016152.D
 Acq: 21 May 2020 14:42

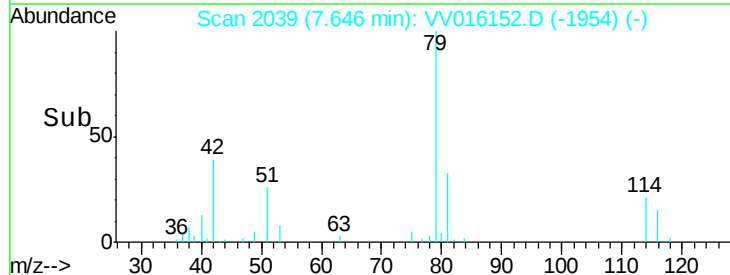
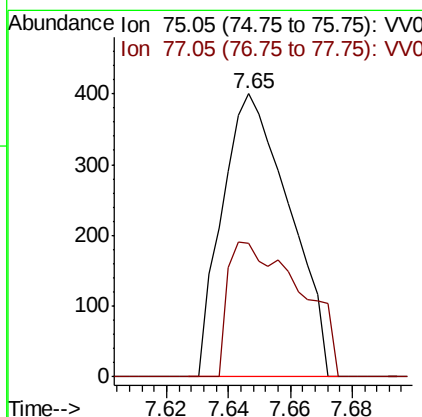
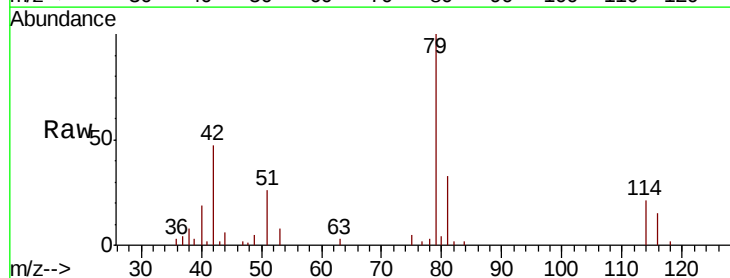
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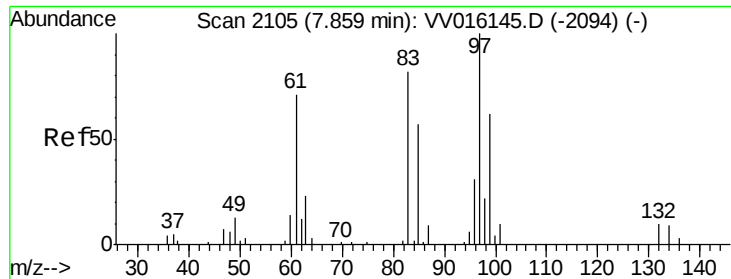
Tot Ion: 63 Resp: 6111
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.4 5.0#



#46
 trans-1,3-Dichloropropene
 Concen: 0.057 ug/L
 RT: 7.65 min Scan# 2039
 Delta R.T. -0.03 min
 Lab File: VV016152.D
 Acq: 21 May 2020 14:42

Tgt Ion: 75 Resp: 604
 Ion Ratio Lower Upper
 75 100
 77 47.3 21.3 39.6#

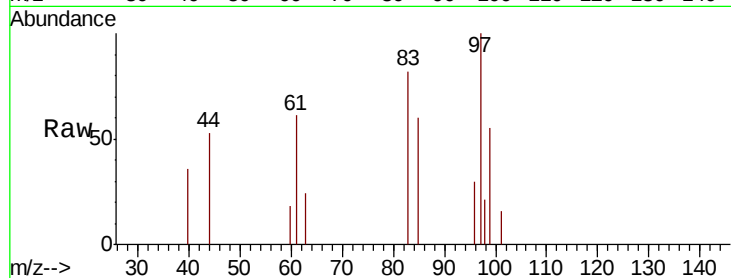




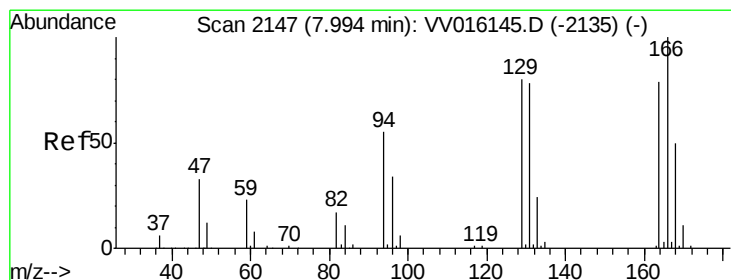
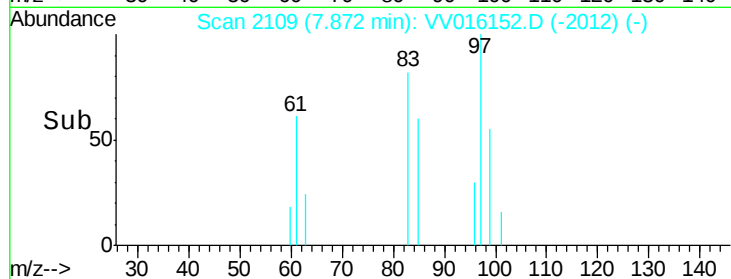
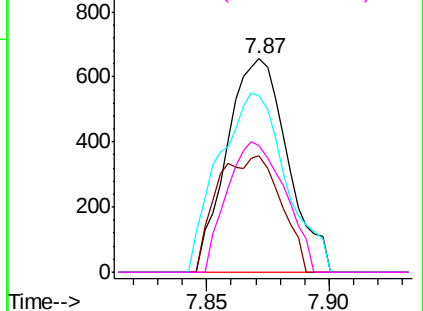
#47
 1,1,2-Trichloroethane
 Concen: 0.191 ug/L
 RT: 7.87 min Scan# 2109
 Delta R.T. 0.01 min
 Lab File: VV016152.D
 Acq: 21 May 2020 14:42

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion:	97	Resp:	1129
Ion	Ratio	Lower	Upper
97	100		
99	54.6	42.1	78.1
83	82.5	59.2	110.0
85	59.6	38.6	71.8

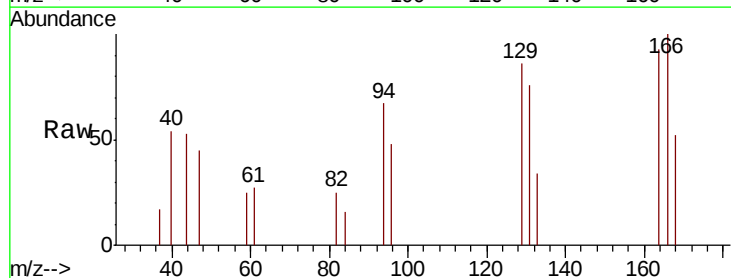


Abundance Ion 96.95 (96.65 to 97.65): VV016152.D (-2012) (-)
 Ion 99.05 (98.75 to 99.75): VV016152.D (-2012) (-)
 Ion 82.95 (82.65 to 83.65): VV016152.D (-2012) (-)
 Ion 85.00 (84.70 to 85.70): VV016152.D (-2012) (-)

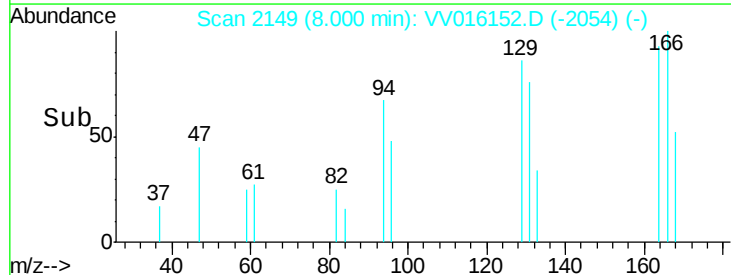
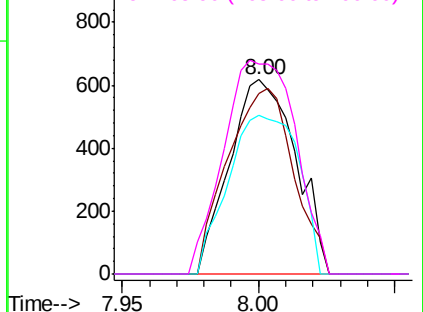


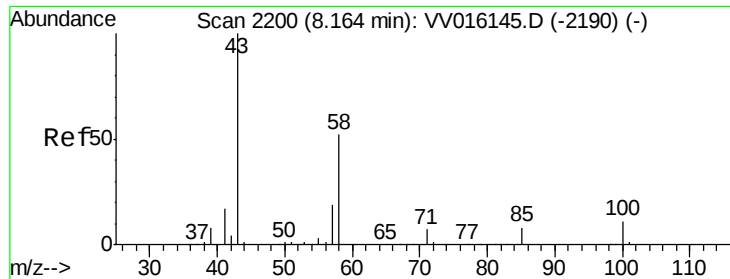
#49
 Tetrachloroethene
 Concen: 0.150 ug/L
 RT: 8.00 min Scan# 2149
 Delta R.T. 0.01 min
 Lab File: VV016152.D
 Acq: 21 May 2020 14:42

Tgt Ion:	164	Resp:	1044
Ion	Ratio	Lower	Upper
164	100		
129	92.6	69.7	129.4
131	81.6	66.8	124.2
166	107.9	89.1	165.5



Abundance Ion 163.90 (163.60 to 164.60): VV016152.D (-2054) (-)
 Ion 128.95 (128.65 to 129.65): VV016152.D (-2054) (-)
 Ion 130.95 (130.65 to 131.65): VV016152.D (-2054) (-)
 Ion 165.90 (165.60 to 166.60): VV016152.D (-2054) (-)

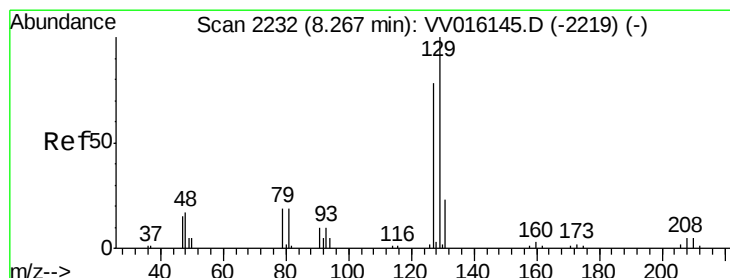
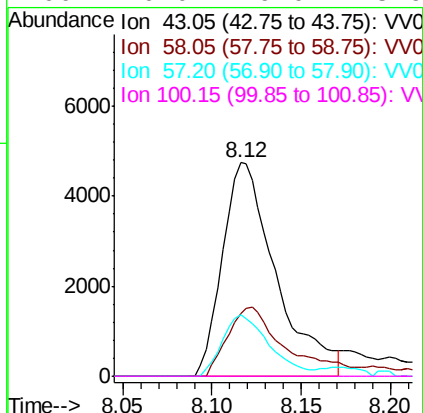
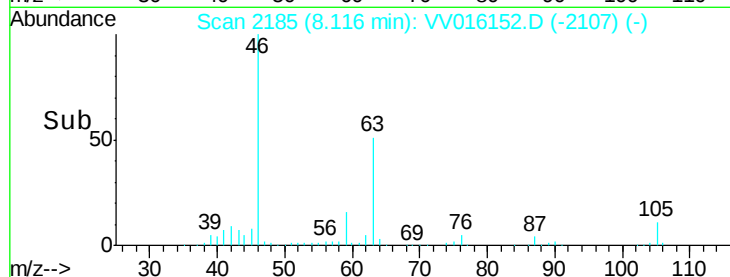
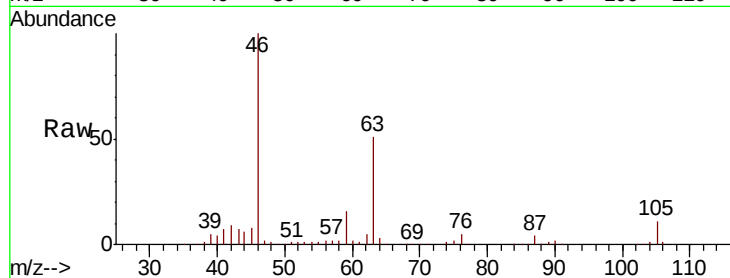




#50
2-Hexanone
Concen: 2.531 ug/L
RT: 8.12 min Scan# 2185
Delta R.T. -0.05 min
Lab File: VV016152.D
Acq: 21 May 2020 14:42

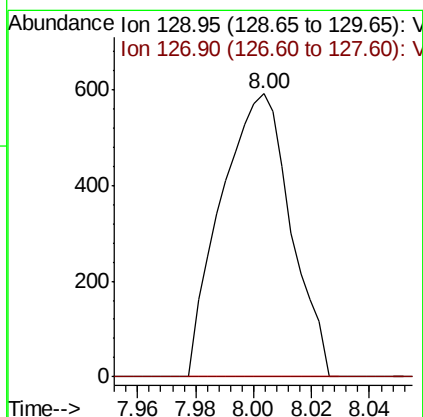
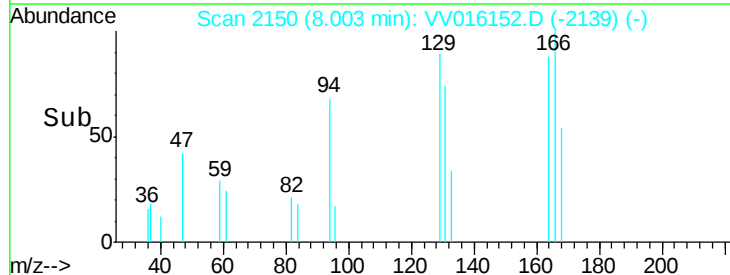
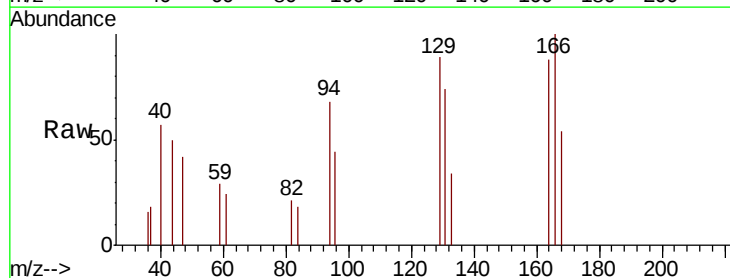
Instrument :
MSVOA_V
ClientSampleId :

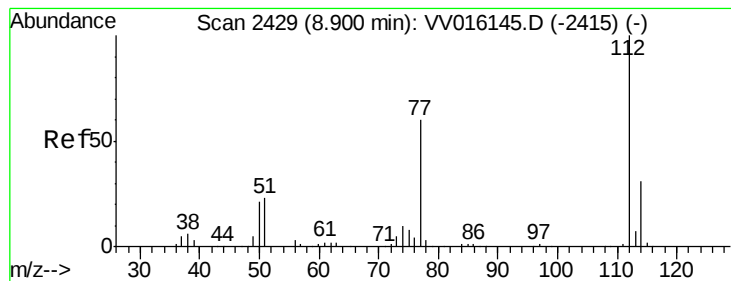
Tot Ion: 43 Resp: 9896
Ion Ratio Lower Upper
43 100
58 34.9 40.8 61.2#
57 25.1 14.7 22.1#
100 0.0 9.0 13.6#



#51
Dibromochloromethane
Concen: 0.148 ug/L
RT: 8.00 min Scan# 2150
Delta R.T. -0.26 min
Lab File: VV016152.D
Acq: 21 May 2020 14:42

Tgt Ion: 129 Resp: 987
Ion Ratio Lower Upper
129 100
127 0.0 56.0 104.0#





#53

Chlorobenzene

Concen: 0.797 ug/L

RT: 8.91 min Scan# 2431

Delta R.T. 0.01 min

Lab File: VV016152.D

Acq: 21 May 2020 14:42

Instrument :
MSVOA_V
ClientSampled :

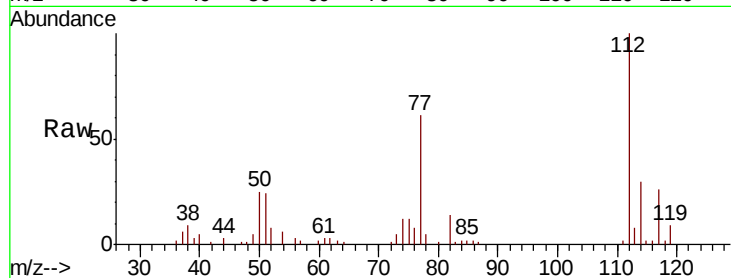
Tot Ion:112 Resp: 18984

Ion Ratio Lower Upper

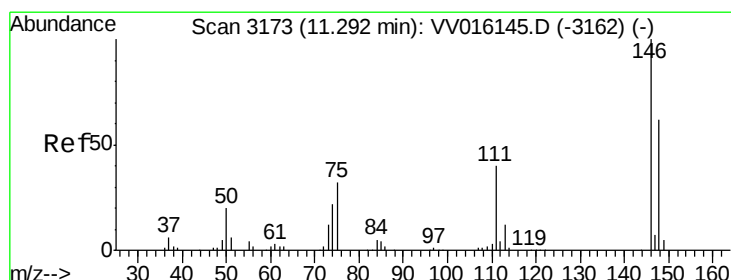
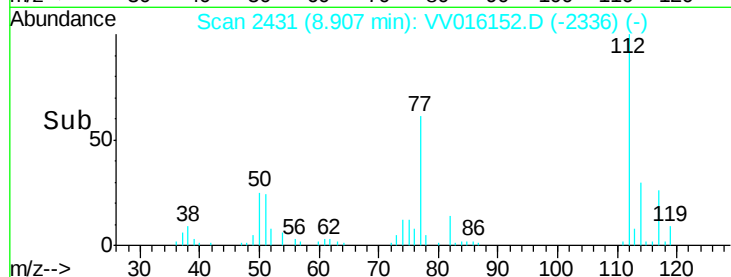
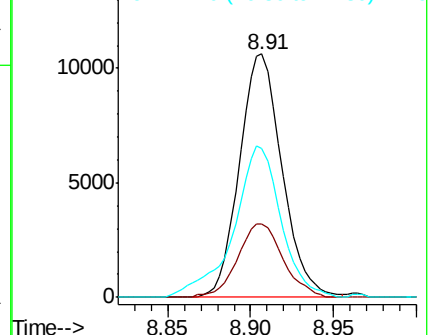
112 100

114 30.2 21.6 40.0

77 61.0 48.6 73.0



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V



#64

1,4-Dichlorobenzene

Concen: 0.216 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV016152.D

Acq: 21 May 2020 14:42

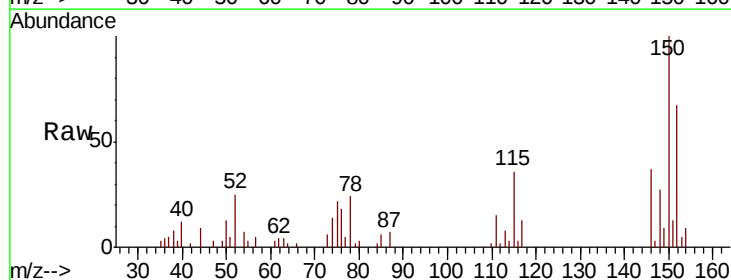
Tgt Ion:146 Resp: 3876

Ion Ratio Lower Upper

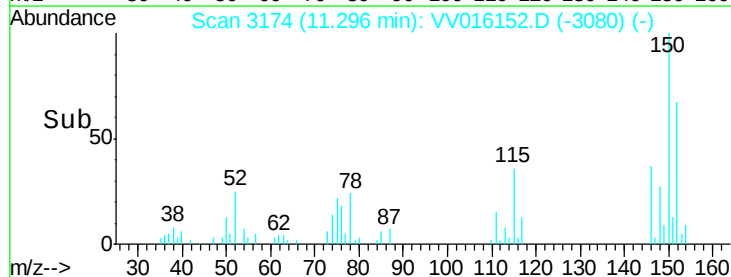
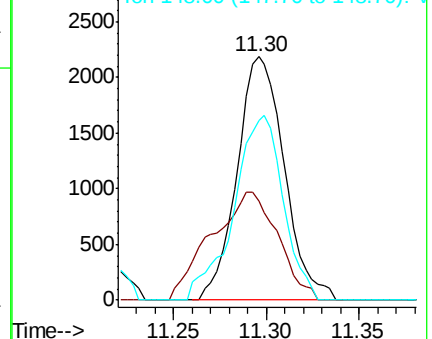
146 100

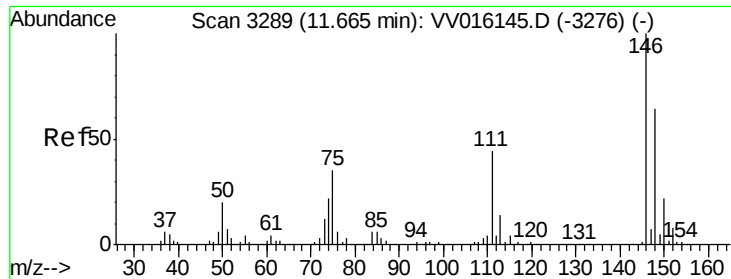
111 40.6 28.9 53.7

148 73.6 44.6 82.8



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





#66

1,2-Dichlorobenzene

Concen: 0.873 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV016152.D

Acq: 21 May 2020 14:42

Instrument :

MSVOA_V

ClientSampled :

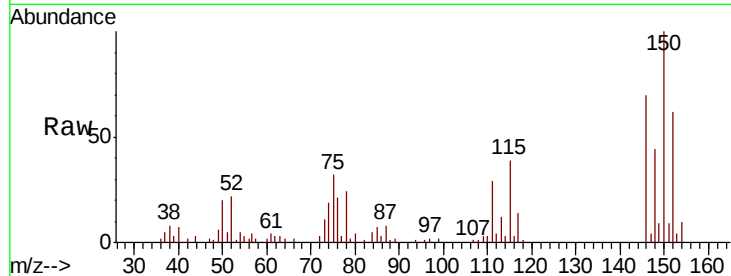
Tot Ion:146 Resp: 14086

Ion Ratio Lower Upper

146 100

111 40.9 37.0 55.4

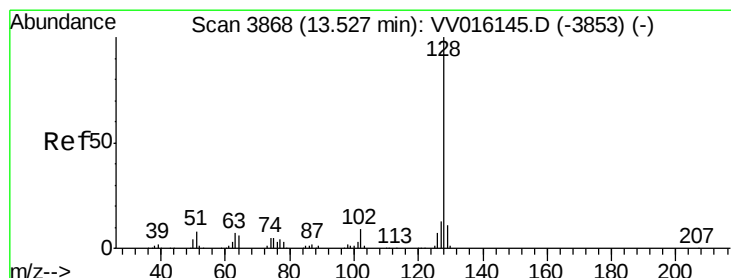
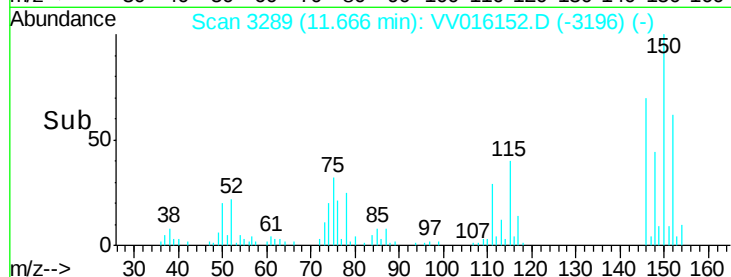
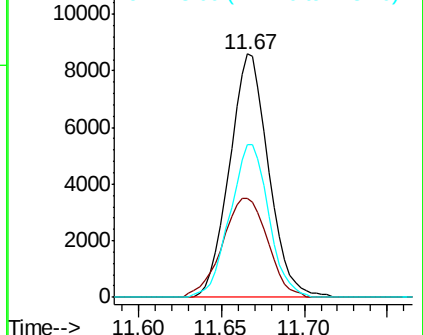
148 63.0 49.8 74.6



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: 7.182 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV016152.D

Acq: 21 May 2020 14:42

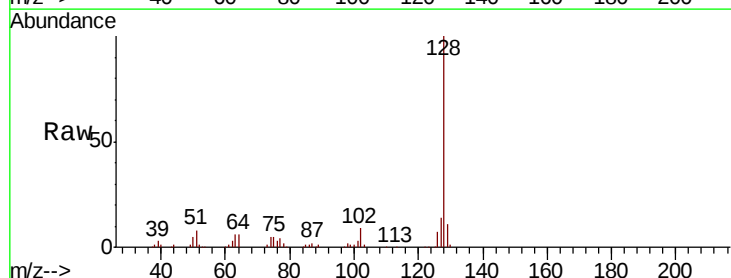
Tgt Ion:128 Resp: 127923

Ion Ratio Lower Upper

128 100

129 11.1 8.5 12.7

127 13.5 10.2 15.2



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

