

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052020\
 Data File : VV016130.D
 Acq On : 20 May 2020 14:43
 Operator : SY/MD
 Sample : L2725-02
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 21 01:40:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 21 01:36:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	142878	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	140363	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	69987	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	34107	4.40	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.00%
7) Chloroethane-d5	1.58	69	37101	5.05	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.00%
11) 1,1-Dichloroethene-d2	2.13	63	61001	3.66	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.20%
20) 2-Butanone-d5	3.91	46	122785	55.53	ug/L	-0.08
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.06%
24) Chloroform-d	4.38	84	74419	4.39	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.80%
26) 1,2-Dichloroethane-d4	5.06	65	49633	5.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.20%
32) Benzene-d6	5.08	84	164817	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.60%
36) 1,2-Dichloropropane-d6	6.10	67	54097	5.31	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.20%
41) Toluene-d8	7.34	98	144156	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.40%
45) trans-1,3-Dichloropropene-	7.65	79	17051	4.26	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.20%
48) 2-Hexanone-d5	8.11	63	94362	53.68	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.36%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	38858	5.42	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.40%
65) 1,2-Dichlorobenzene-d4	11.65	152	57803	5.09	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	166873	15.744	ug/L	100
8) Chloroethane	1.49	64	49706	6.582	ug/L #	51
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	588	0.072	ug/L #	10
12) 1,1-Dichloroethene	2.14	96	7291	0.927	ug/L #	1
17) Methyl tert-butyl Ether	2.79	73	1560	0.076	ug/L #	81
18) trans-1,2-Dichloroethene	2.78	96	26829	3.088	ug/L	100
19) 1,1-Dichloroethane	3.23	63	2049	0.122	ug/L #	88
22) cis-1,2-Dichloroethene	3.94	96	842112	92.578	ug/L	99
25) Chloroform	4.41	83	16187	0.878	ug/L	92
27) 1,2-Dichloroethane	5.16	62	77665	6.858	ug/L	99
30) Cyclohexane	4.71	56	1875	0.121	ug/L	94
33) Benzene	5.13	78	41174	1.166	ug/L	100
34) Trichloroethene	5.94	95	321834	31.929	ug/L	94
35) Methylcyclohexane	6.10	83	13345	0.875	ug/L #	18
37) 1,2-Dichloropropane	6.20	63	1009	0.112	ug/L #	87
39) cis-1,3-Dichloropropene	7.01	75	1544	0.122	ug/L #	59
47) 1,1,2-Trichloroethane	7.86	97	9234	1.541	ug/L	93

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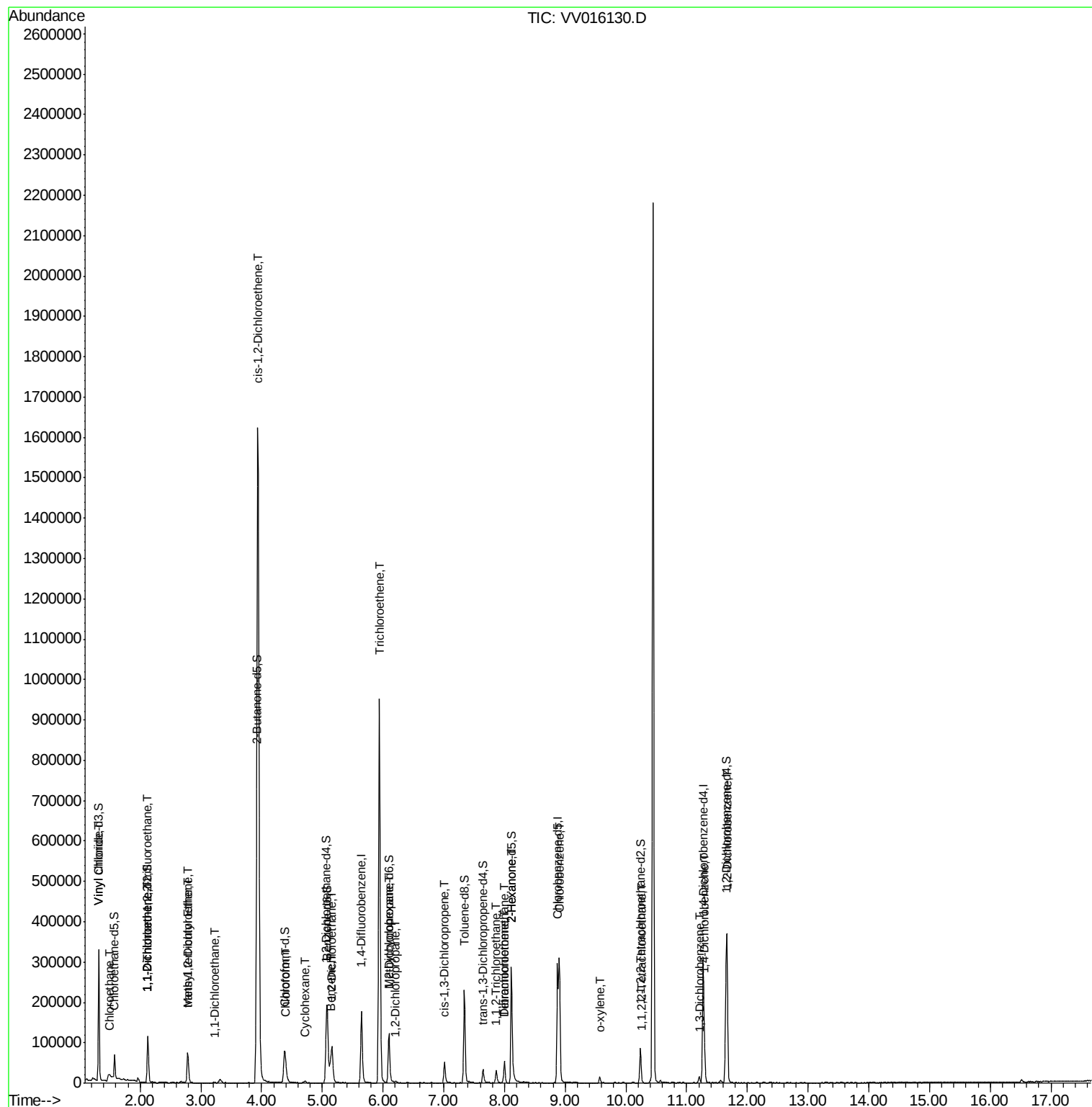
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	8.00	164	10621	1.510	uq/L	97
50) 2-Hexanone	8.11	43	13301	3.363	uq/L #	78
51) Dibromochloromethane	8.00	129	10817	1.607	uq/L #	9
53) Chlorobenzene	8.90	112	148477	6.168	uq/L	98
56) o-xylene	9.57	106	3749	0.249	uq/L	76
60) 1,1,2,2-Tetrachloroethane	10.27	83	989	0.154	uq/L #	84
63) 1,3-Dichlorobenzene	11.21	146	5275	0.280	uq/L	96
64) 1,4-Dichlorobenzene	11.30	146	29341	1.549	uq/L	100
66) 1,2-Dichlorobenzene	11.67	146	107179	6.280	uq/L	98

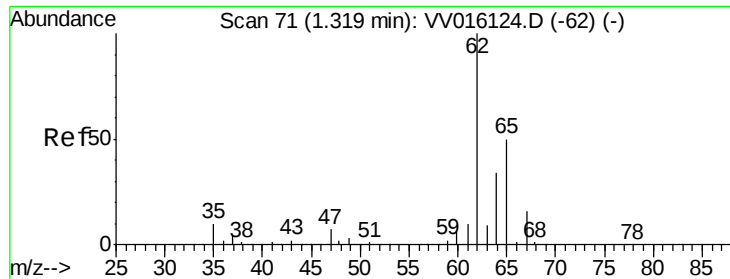
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 15.744 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV016130.D

Acq: 20 May 2020 14:43

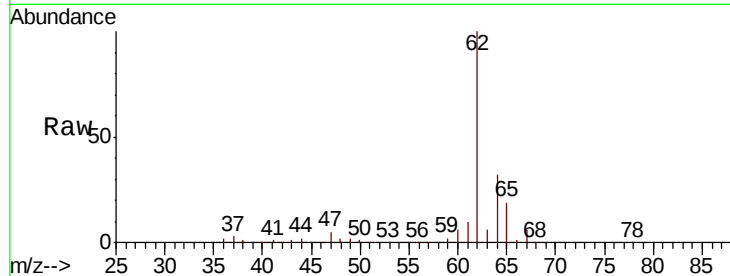
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 166873

Ion Ratio Lower Upper

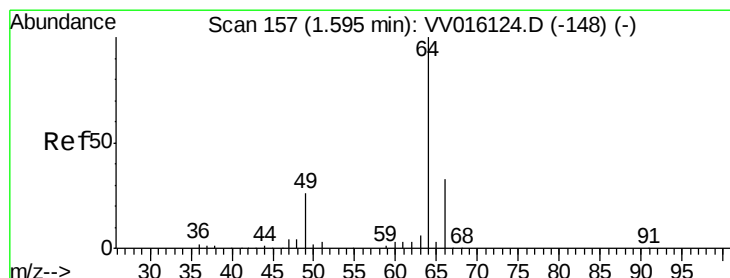
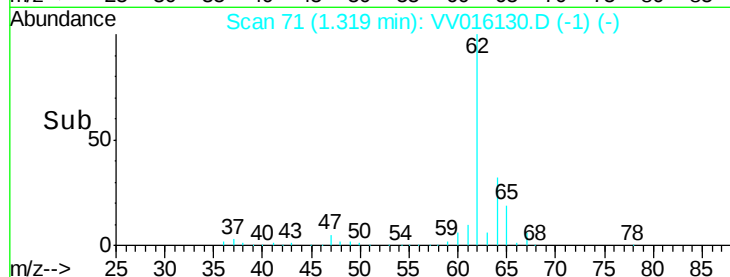
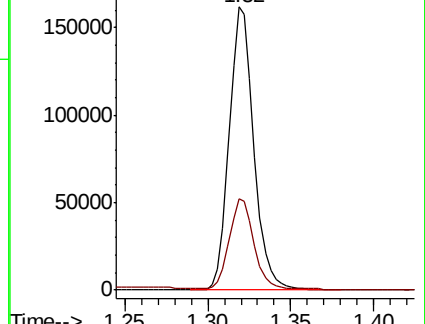
62 100

64 32.1 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#8

Chloroethane

Concen: 6.582 ug/L

RT: 1.49 min Scan# 124

Delta R.T. -0.11 min

Lab File: VV016130.D

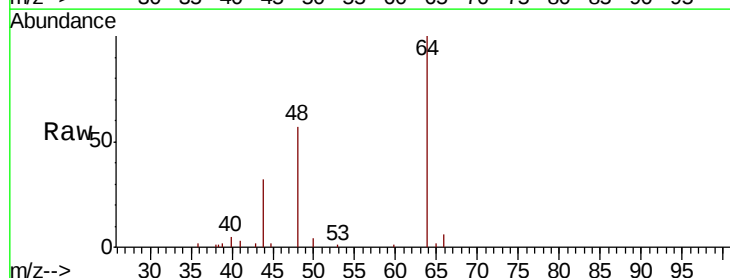
Acq: 20 May 2020 14:43

Tgt Ion: 64 Resp: 49706

Ion Ratio Lower Upper

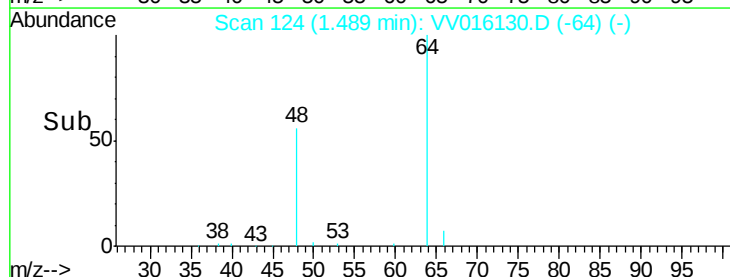
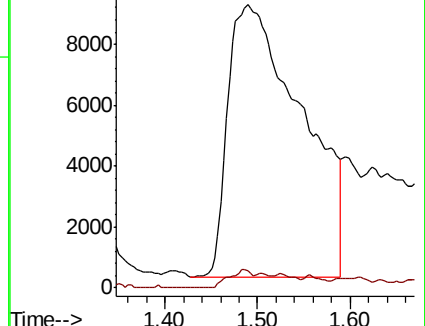
64 100

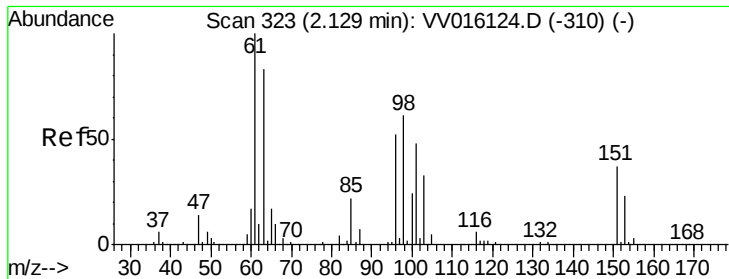
66 6.0 23.6 43.8#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0





#10

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

Concen: 0.072 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV016130.D

Acq: 20 May 2020 14:43

Instrument :

MSVOA_V

ClientSampleId :

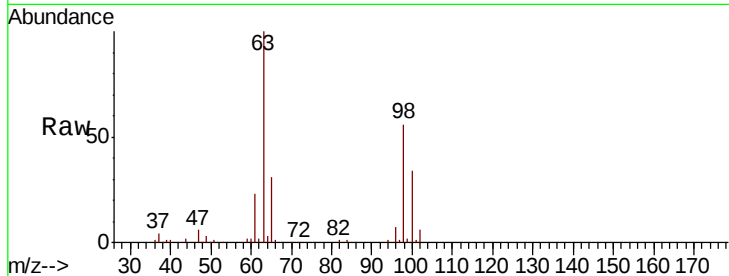
Tot Ion:101 Resp: 588

Ion Ratio Lower Upper

101 100

85 106.5 35.7 53.5#

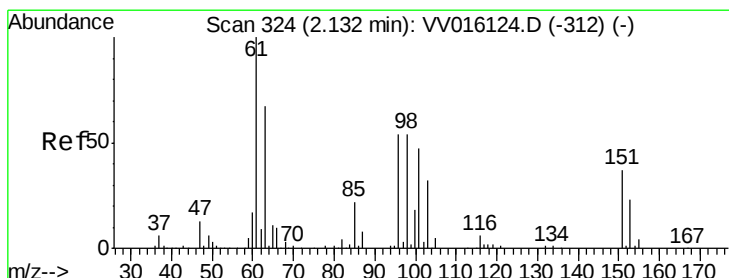
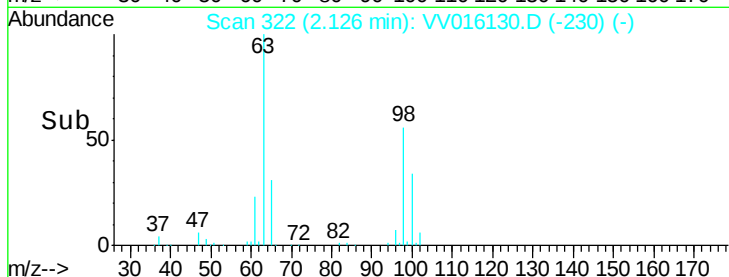
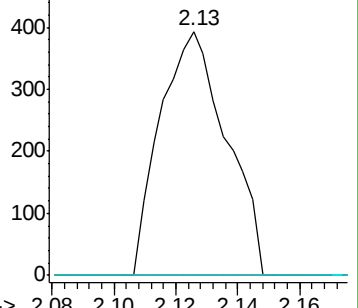
151 0.0 58.0 87.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.927 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV016130.D

Acq: 20 May 2020 14:43

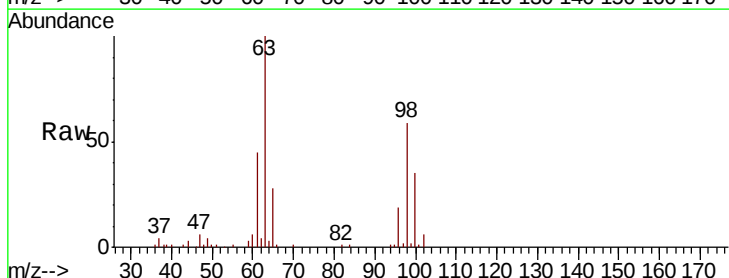
Tgt Ion: 96 Resp: 7291

Ion Ratio Lower Upper

96 100

61 233.1 139.9 259.7

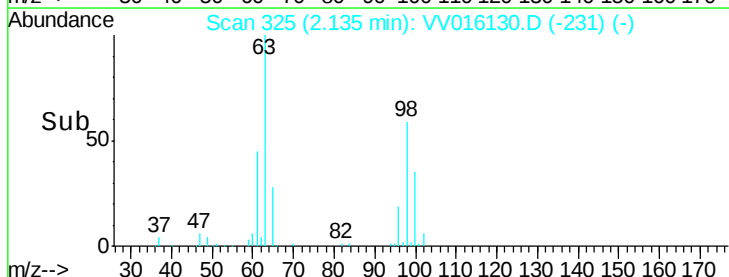
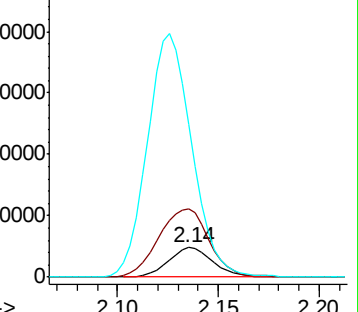
63 519.9 106.4 197.6#

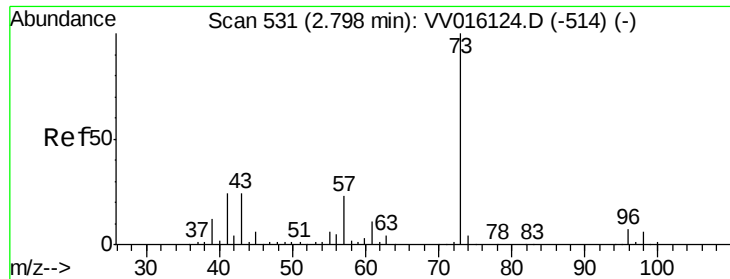


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

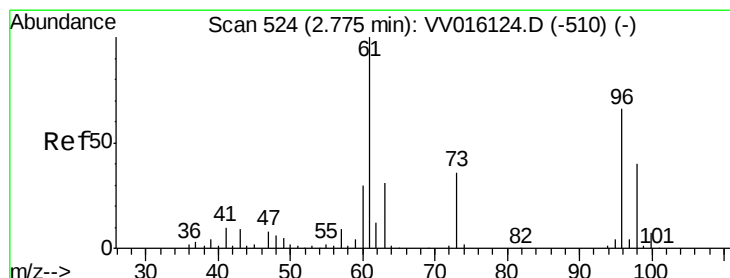
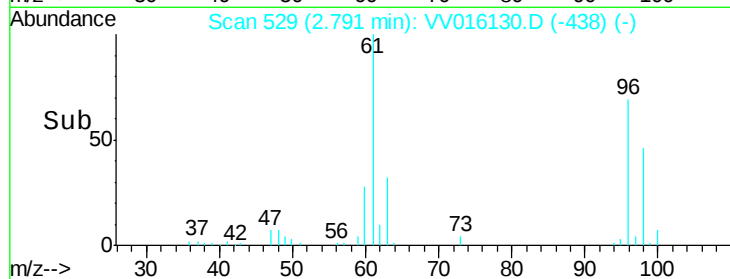
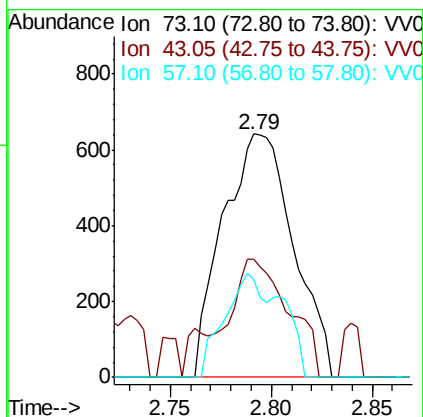
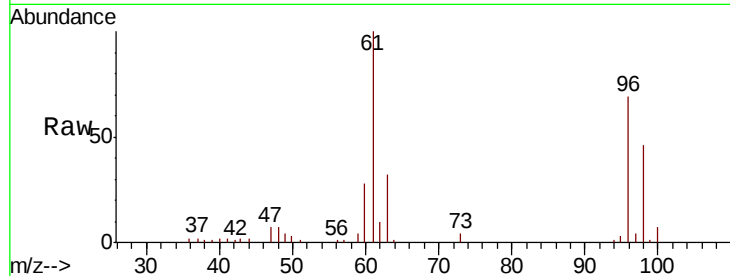




#17
Methvl tert-butvl Ether
Concen: 0.076 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.01 min
Lab File: VV016130.D
Acq: 20 May 2020 14:43

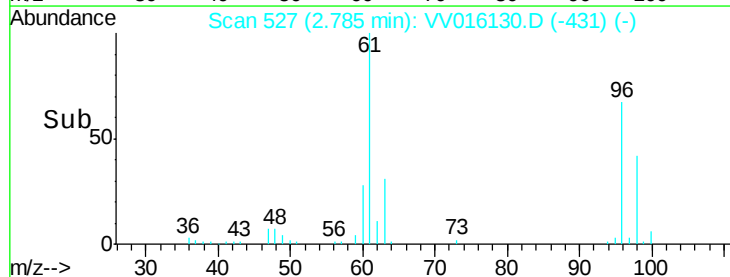
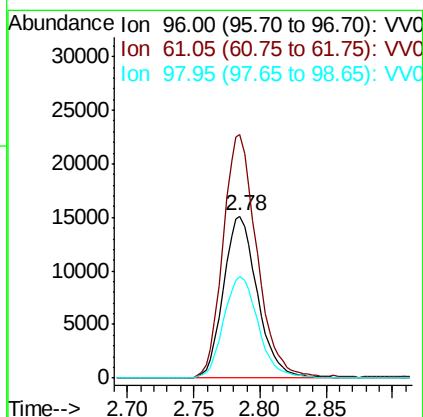
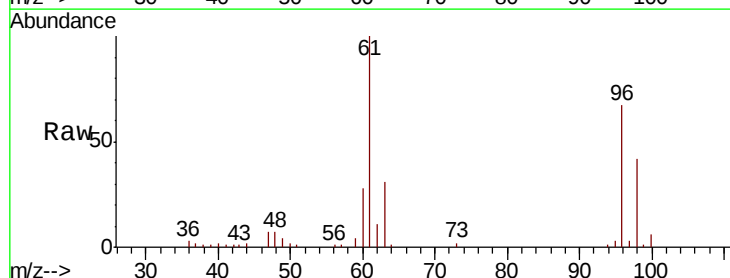
Instrument :
MSVOA_V
ClientSampleId :

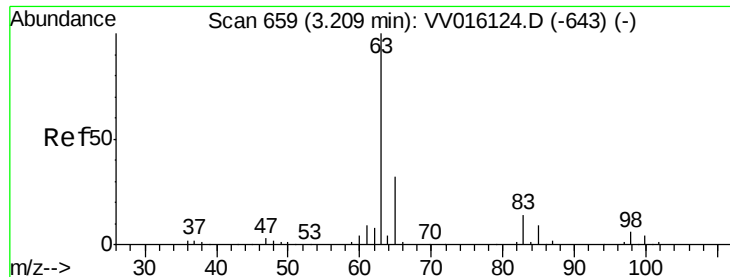
Tot Ion: 73 Resp: 1560
Ion Ratio Lower Upper
73 100
43 40.3 18.8 28.2#
57 23.8 17.8 26.6



#18
trans-1,2-Dichloroethene
Concen: 3.088 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.01 min
Lab File: VV016130.D
Acq: 20 May 2020 14:43

Tgt Ion: 96 Resp: 26829
Ion Ratio Lower Upper
96 100
61 150.3 105.3 195.5
98 62.7 44.0 81.6

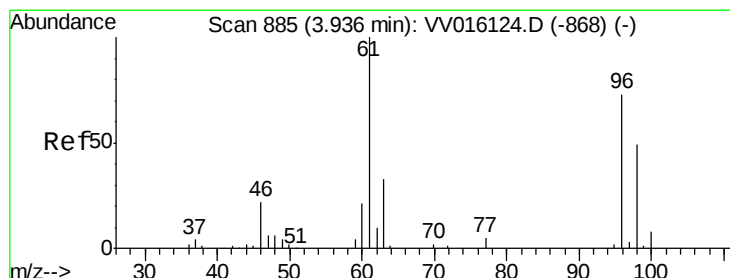
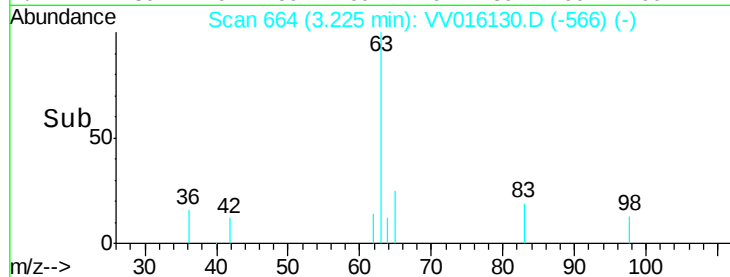
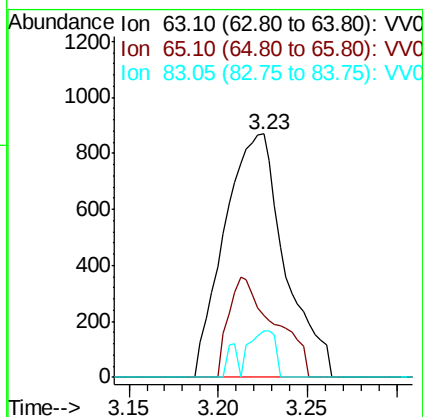
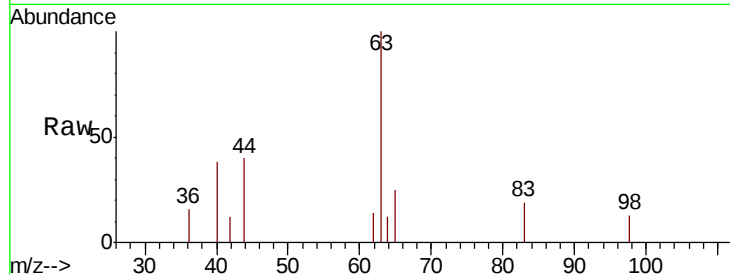




#19
 1,1-Dichloroethane
 Concen: 0.122 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. 0.02 min
 Lab File: VV016130.D
 Acq: 20 May 2020 14:43

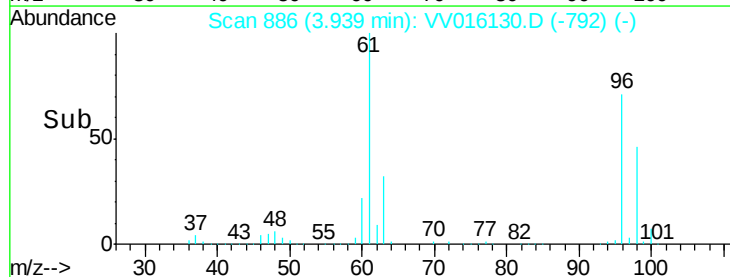
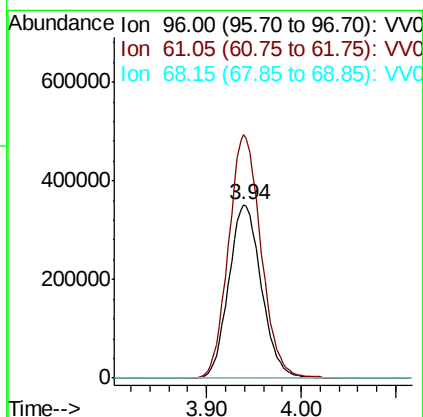
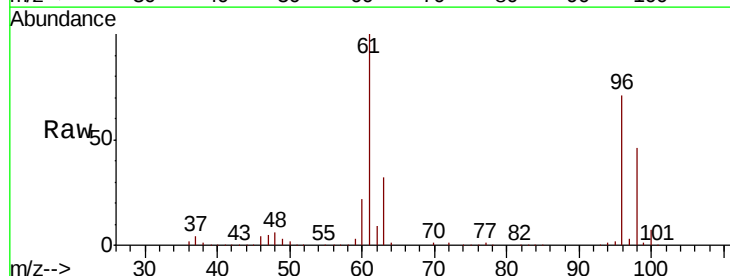
Instrument :
 MSVOA_V
 ClientSampled :

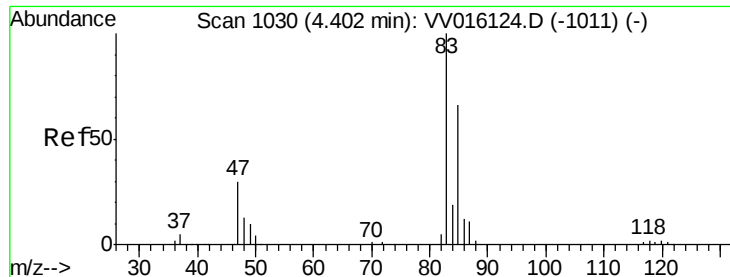
Tot Ion: 63 Resp: 2049
 Ion Ratio Lower Upper
 63 100
 65 25.2 22.0 41.0
 83 19.3 9.8 18.2#



#22
 cis-1,2-Dichloroethene
 Concen: 92.578 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV016130.D
 Acq: 20 May 2020 14:43

Tgt Ion: 96 Resp: 842112
 Ion Ratio Lower Upper
 96 100
 61 140.3 97.2 180.6
 68 0.0 0.0 0.0

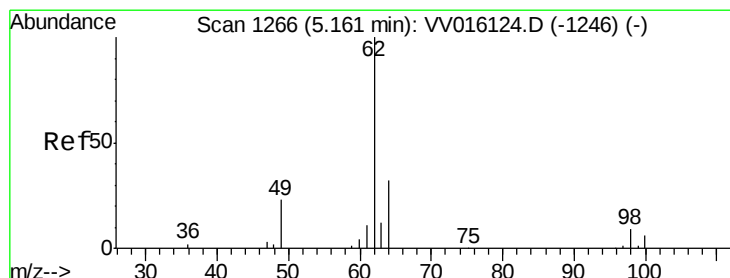
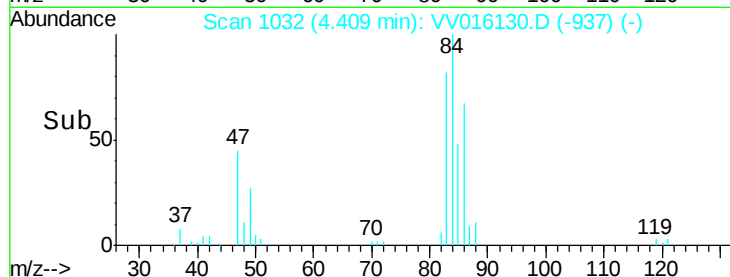
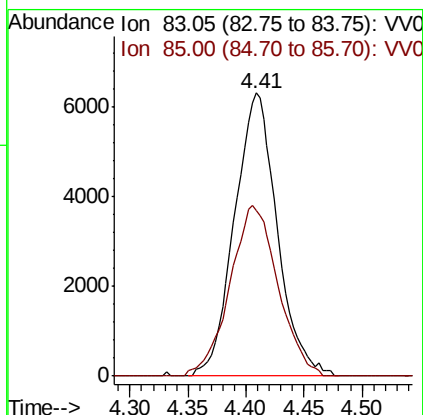
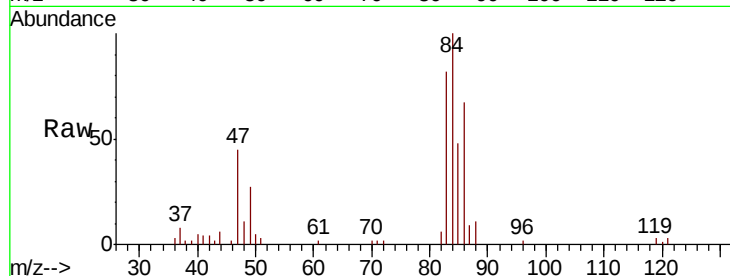




#25
Chloroform
Concen: 0.878 ug/L
RT: 4.41 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VV016130.D
Acq: 20 May 2020 14:43

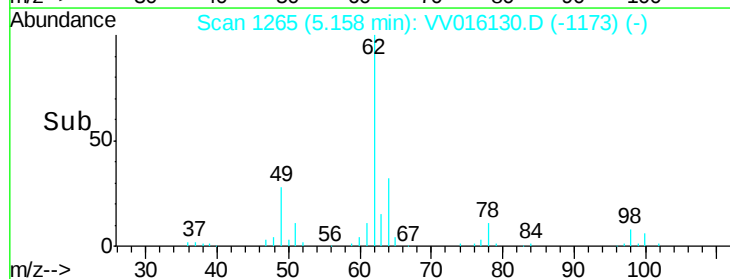
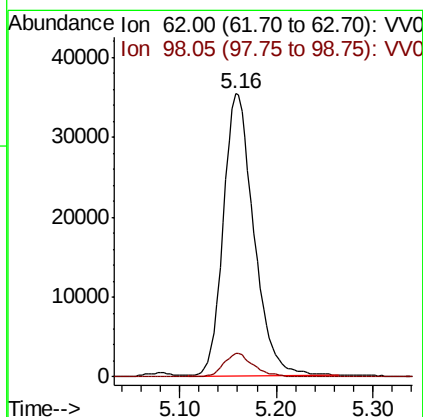
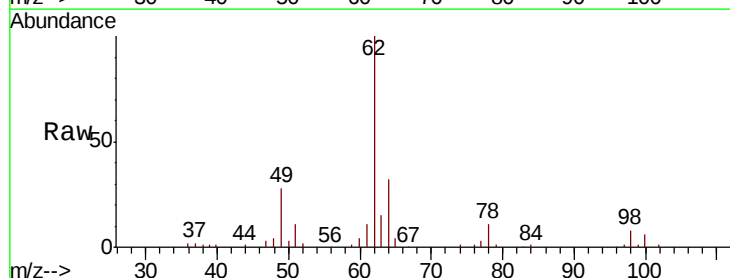
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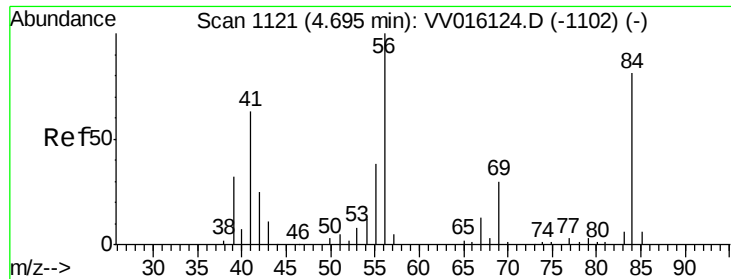
Tot Ion: 83 Resp: 16187
Ion Ratio Lower Upper
83 100
85 58.7 45.7 84.9



#27
1,2-Dichloroethane
Concen: 6.858 ug/L
RT: 5.16 min Scan# 1265
Delta R.T. -0.00 min
Lab File: VV016130.D
Acq: 20 May 2020 14:43

Tgt Ion: 62 Resp: 77665
Ion Ratio Lower Upper
62 100
98 8.2 6.7 10.1

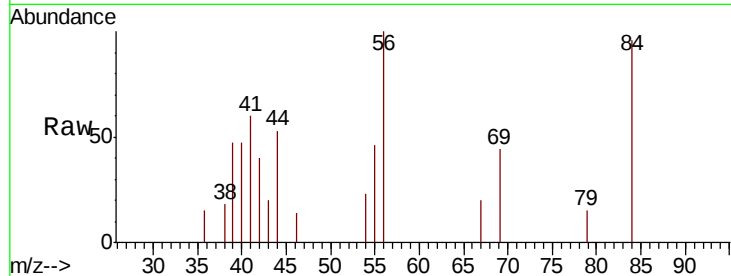




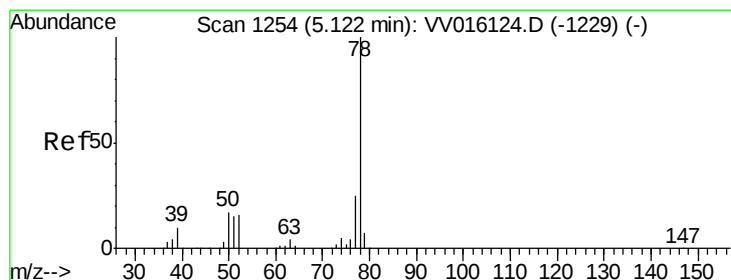
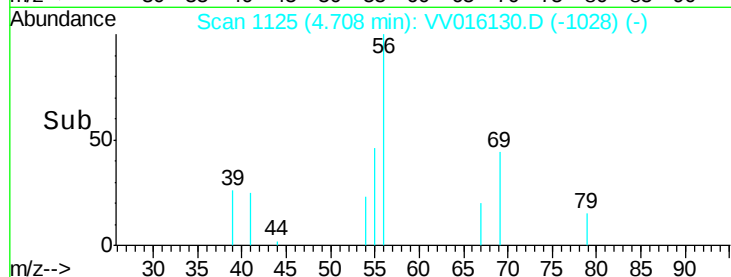
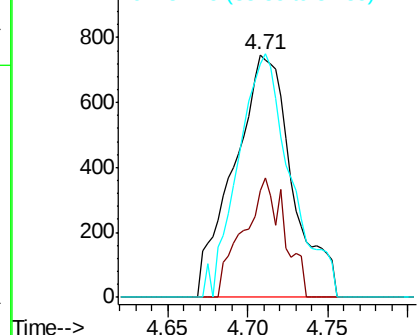
#30
Cyclohexane
Concen: 0.121 ug/L
RT: 4.71 min Scan# 1125
Delta R.T. 0.01 min
Lab File: VV016130.D
Acq: 20 May 2020 14:43

Instrument :
MSVOA_V
ClientSampled :

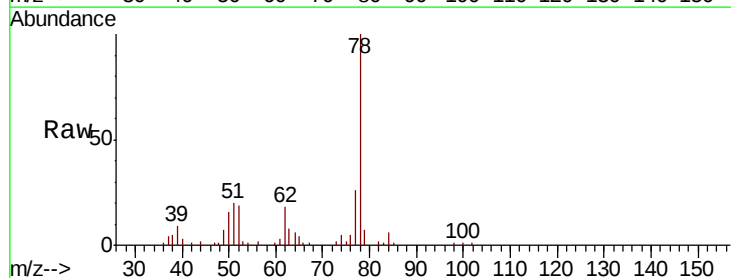
Tot Ion: 56 Resp: 1875
Ion Ratio Lower Upper
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69 34.5 24.2 36.2
84 90.1 68.3 102.5



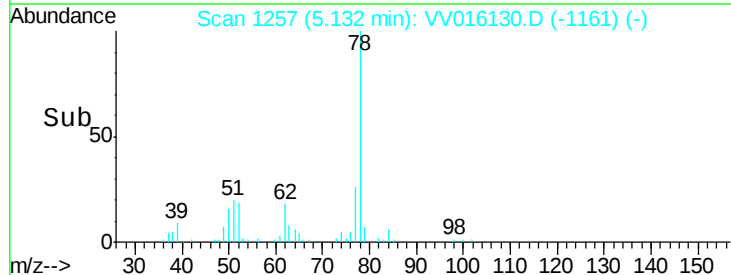
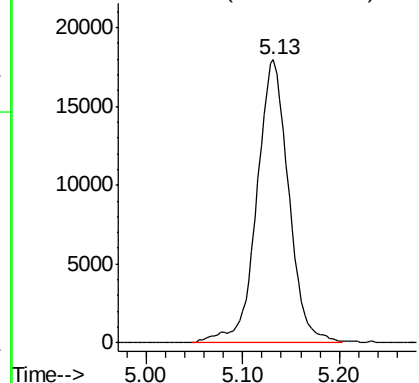
Abundance Ion 56.10 (55.80 to 56.80): VV0
Ion 69.15 (68.85 to 69.85): VV0
Ion 84.15 (83.85 to 84.85): VV0

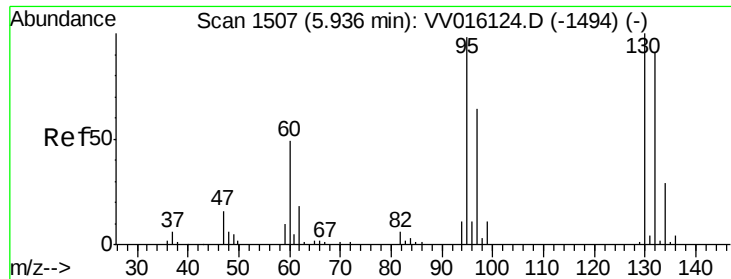


#33
Benzene
Concen: 1.166 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. 0.01 min
Lab File: VV016130.D
Acq: 20 May 2020 14:43
Tgt Ion: 78 Resp: 41174



Abundance Ion 78.10 (77.80 to 78.80): VV0

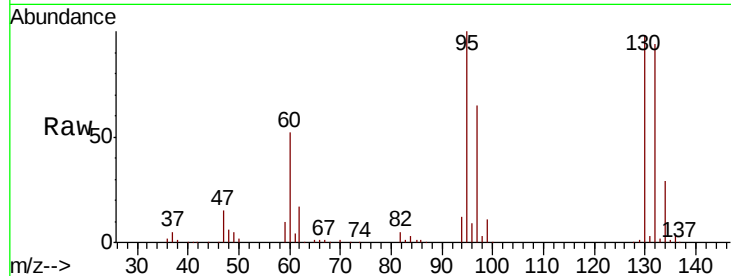




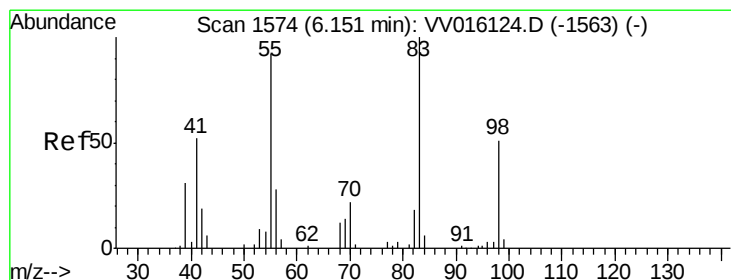
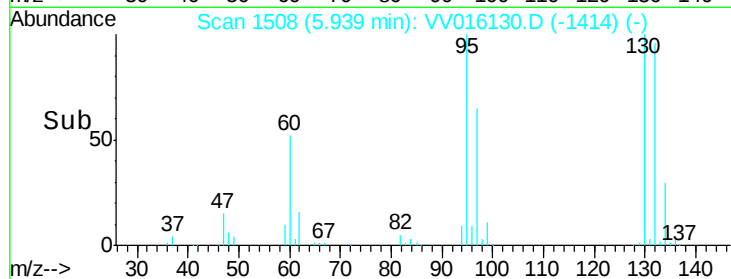
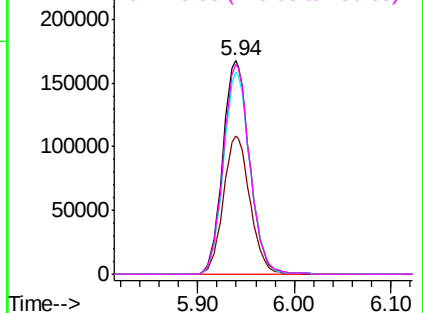
#34
 Trichloroethene
 Concen: 31.929 ug/L
 RT: 5.94 min Scan# 1508
 Delta R.T. 0.00 min
 Lab File: VV016130.D
 Acq: 20 May 2020 14:43

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 95 Resp: 321834
 Ion Ratio Lower Upper
 95 100
 97 64.7 43.3 80.5
 132 94.5 60.3 112.1
 130 98.3 66.0 122.6

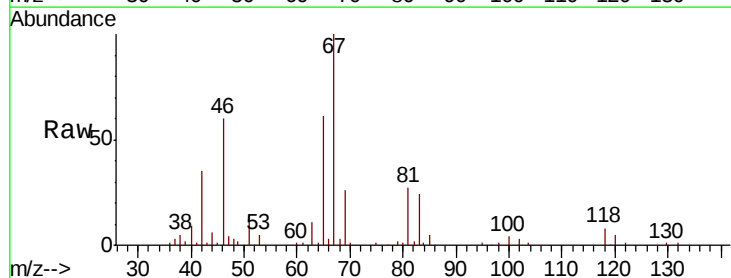


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

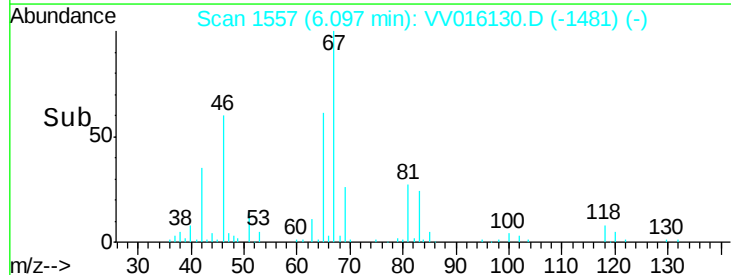
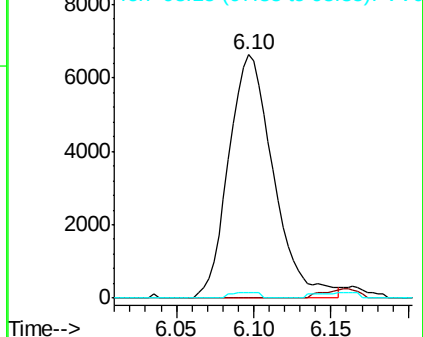


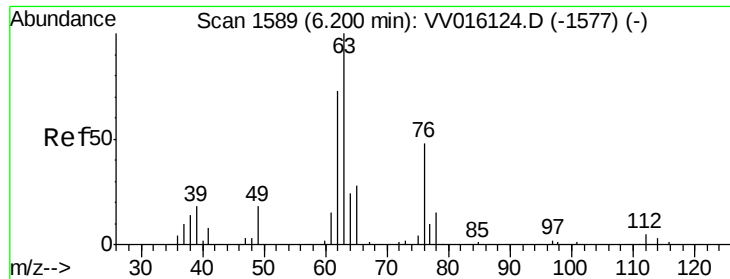
#35
 Methylcyclohexane
 Concen: 0.875 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.05 min
 Lab File: VV016130.D
 Acq: 20 May 2020 14:43

Tgt Ion: 83 Resp: 13345
 Ion Ratio Lower Upper
 83 100
 55 2.8 66.2 99.2#
 98 0.0 37.9 56.9#



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: 0.112 ug/L

RT: 6.20 min Scan# 1589

Delta R.T. -0.00 min

Lab File: VV016130.D

Acq: 20 May 2020 14:43

Instrument :

MSVOA_V

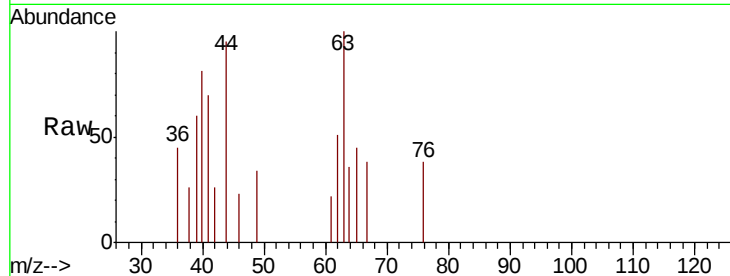
ClientSampled :

Tot Ion: 63 Resp: 1009

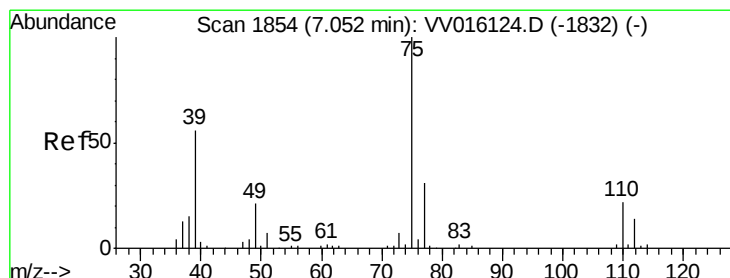
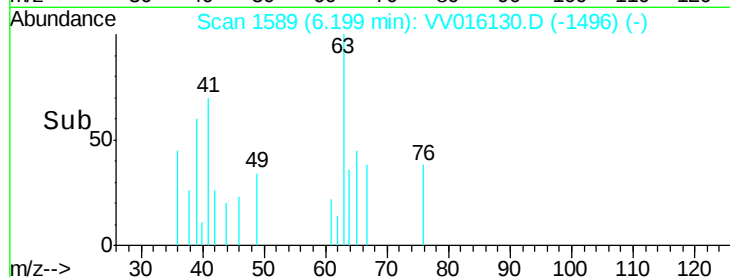
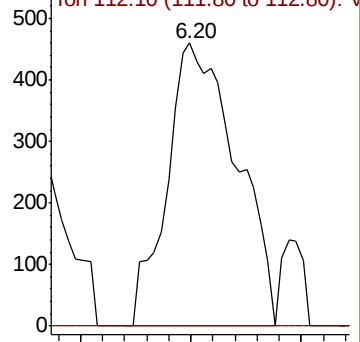
Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VV016124.D (-1577) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.122 ug/L

RT: 7.01 min Scan# 1840

Delta R.T. -0.05 min

Lab File: VV016130.D

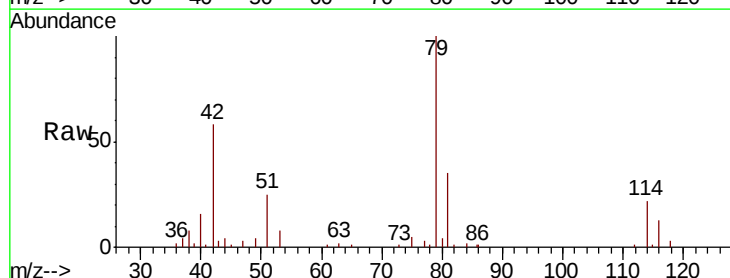
Acq: 20 May 2020 14:43

Tgt Ion: 75 Resp: 1544

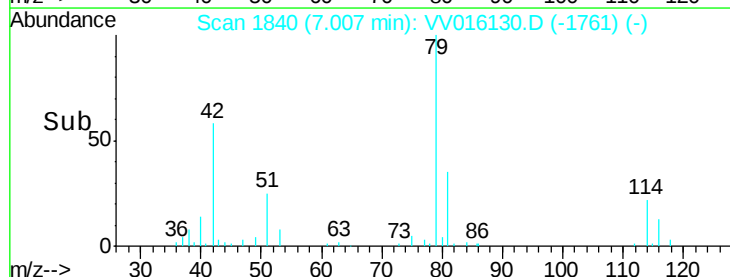
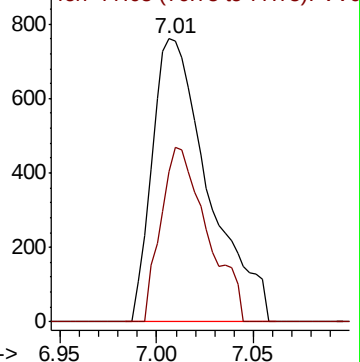
Ion Ratio Lower Upper

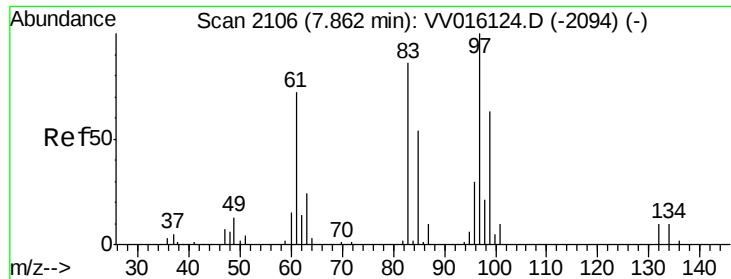
75 100

77 52.9 21.3 39.5#



Abundance Ion 75.05 (74.75 to 75.75): VV016124.D (-1832) (-)

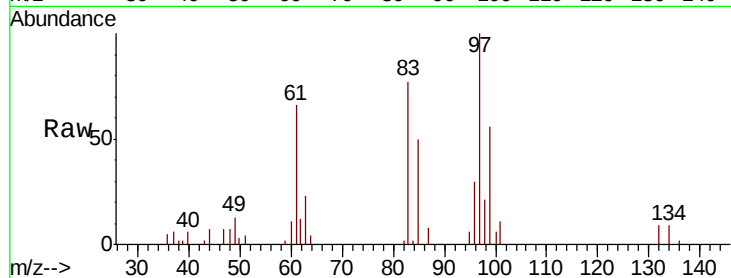




#47
 1,1,2-Trichloroethane
 Concen: 1.541 ug/L
 RT: 7.86 min Scan# 2107
 Delta R.T. 0.00 min
 Lab File: VV016130.D
 Acq: 20 May 2020 14:43

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	97	Resp:	9234
Ion	Ratio	Lower	Upper
97	100		
99	55.7	42.1	78.1
83	77.1	59.2	110.0
85	49.7	38.6	71.8



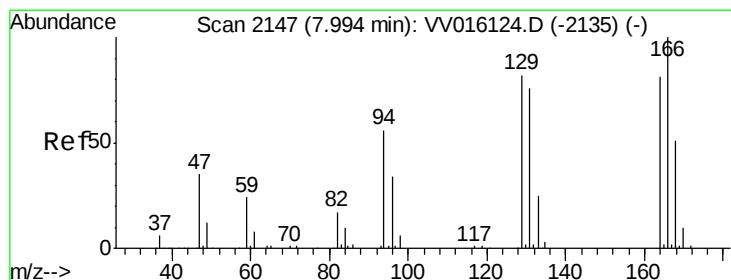
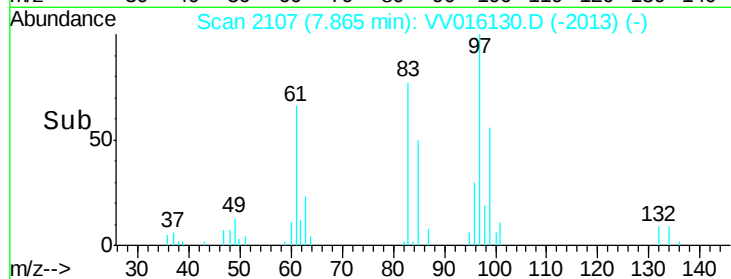
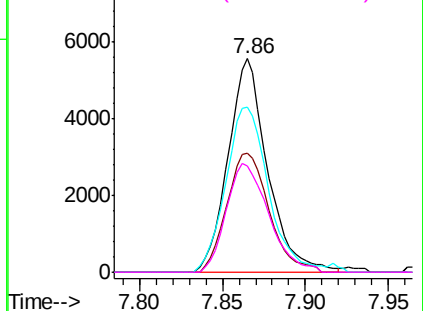
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

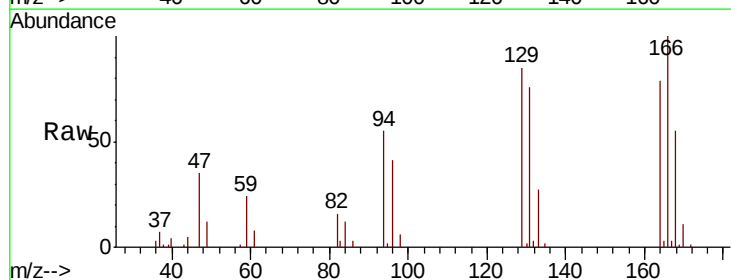
Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#49
 Tetrachloroethene
 Concen: 1.510 ug/L
 RT: 8.00 min Scan# 2149
 Delta R.T. 0.01 min
 Lab File: VV016130.D
 Acq: 20 May 2020 14:43

Tgt Ion:	164	Resp:	10621
Ion	Ratio	Lower	Upper
164	100		
129	107.7	69.7	129.4
131	96.4	66.8	124.2
166	127.1	89.1	165.5



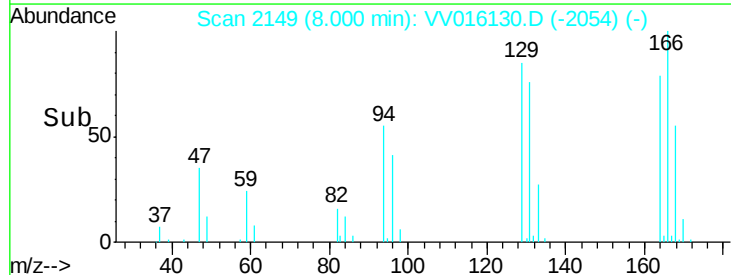
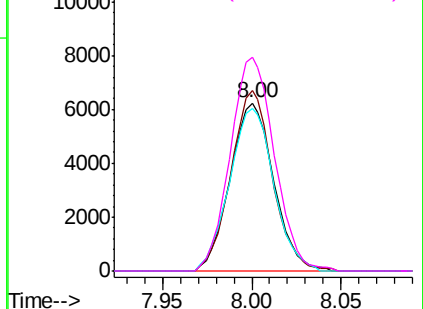
Abundance

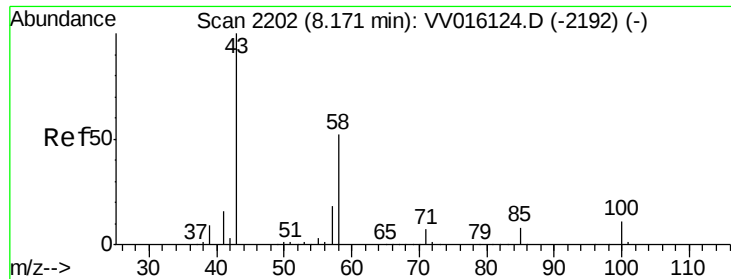
Ion 163.90 (163.60 to 164.60): V

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

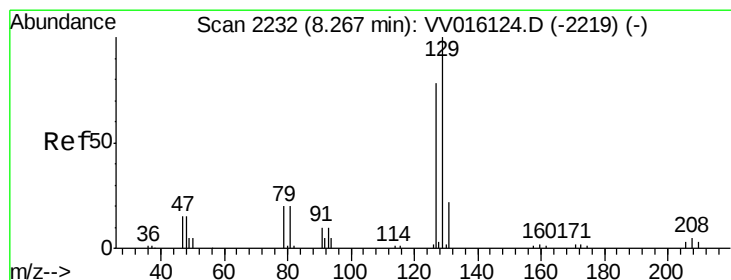
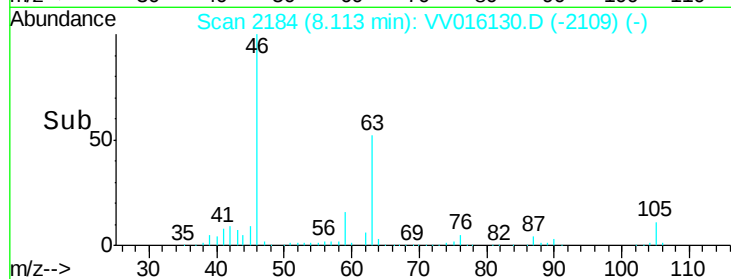
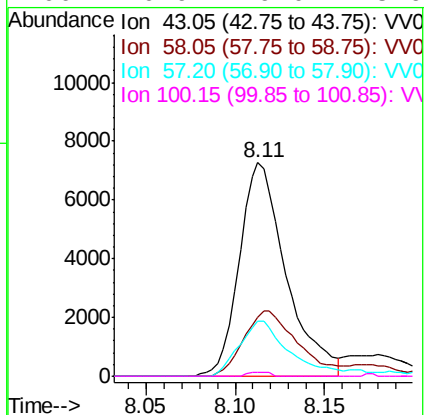
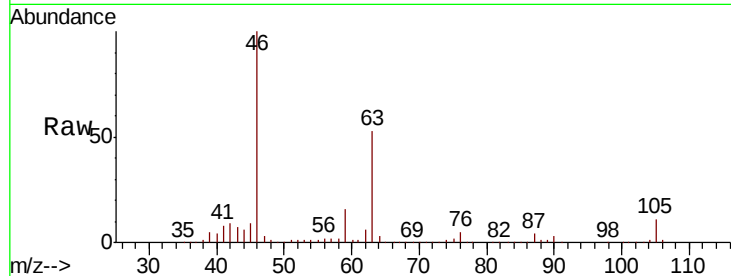




#50
2-Hexanone
Concen: 3.363 ug/L
RT: 8.11 min Scan# 2184
Delta R.T. -0.06 min
Lab File: VV016130.D
Acq: 20 May 2020 14:43

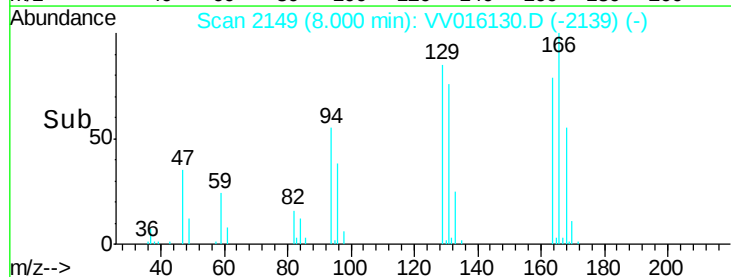
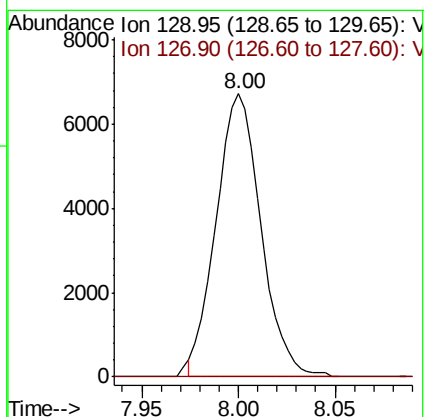
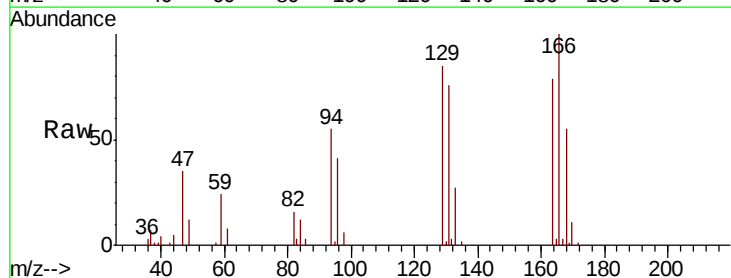
Instrument :
MSVOA_V
ClientSampled :

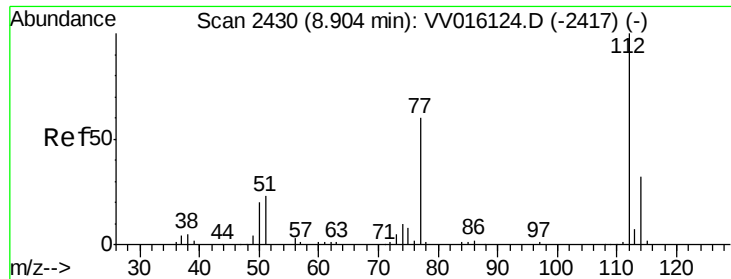
Tot Ion: 43 Resp: 13301
Ion Ratio Lower Upper
43 100
58 35.4 40.8 61.2#
57 27.2 14.7 22.1#
100 0.9 9.0 13.6#



#51
Dibromochloromethane
Concen: 1.607 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. -0.27 min
Lab File: VV016130.D
Acq: 20 May 2020 14:43

Tgt Ion: 129 Resp: 10817
Ion Ratio Lower Upper
129 100
127 0.0 56.0 104.0#

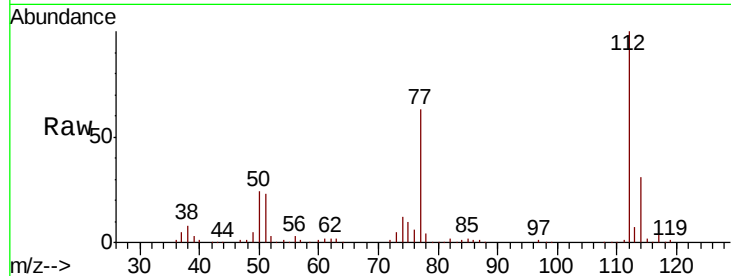




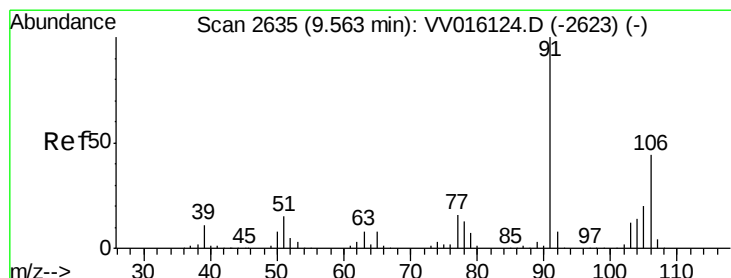
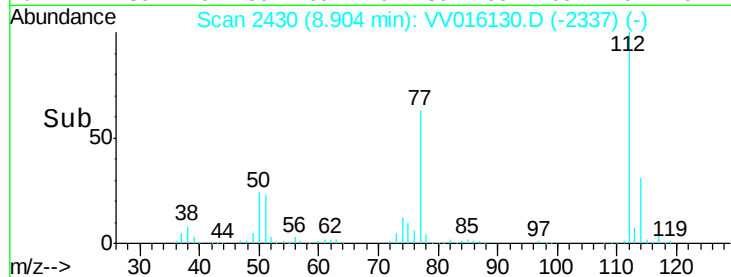
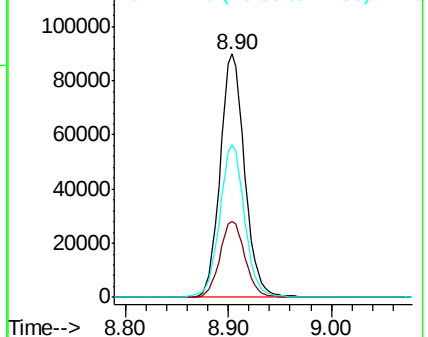
#53
Chlorobenzene
Concen: 6.168 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. -0.00 min
Lab File: VV016130.D
Acq: 20 May 2020 14:43

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:112 Resp: 148477
Ion Ratio Lower Upper
112 100
114 31.4 21.6 40.0
77 62.5 48.6 73.0

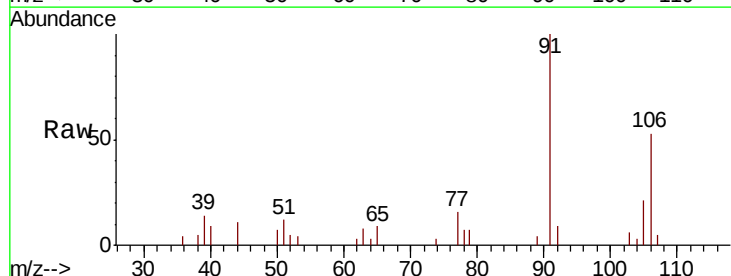


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

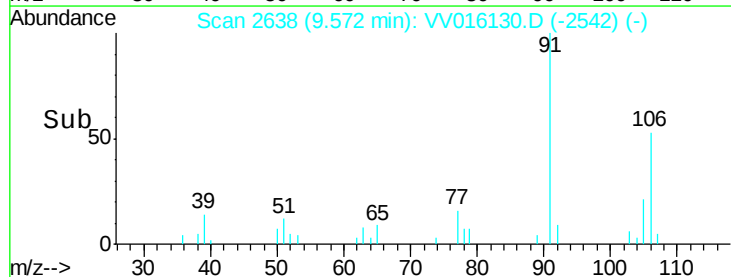
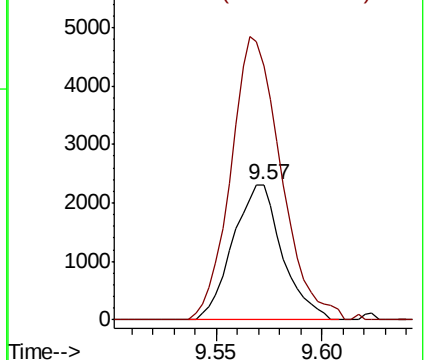


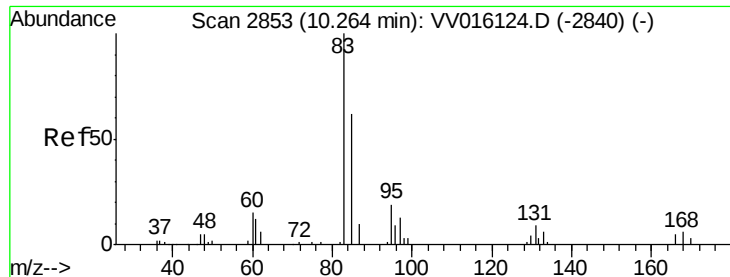
#56
o-xylene
Concen: 0.249 ug/L
RT: 9.57 min Scan# 2638
Delta R.T. 0.01 min
Lab File: VV016130.D
Acq: 20 May 2020 14:43

Tgt Ion:106 Resp: 3749
Ion Ratio Lower Upper
106 100
91 188.2 159.7 296.5



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): V





#60

1,1,2,2-Tetrachloroethane

Concen: 0.154 ug/L

RT: 10.27 min Scan# 2854

Delta R.T. 0.00 min

Lab File: VV016130.D

Acq: 20 May 2020 14:43

Instrument :

MSVOA_V

ClientSampleId :

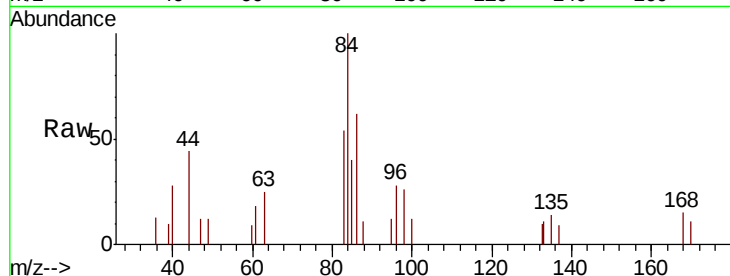
Tot Ion: 83 Resp: 989

Ion Ratio Lower Upper

83 100

85 74.0 44.0 81.6

131 0.0 7.7 11.5#

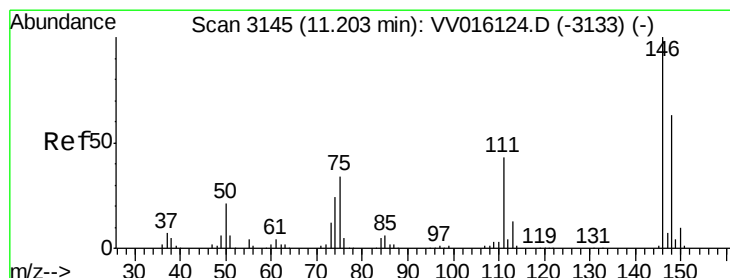
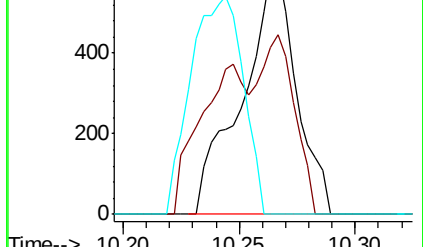
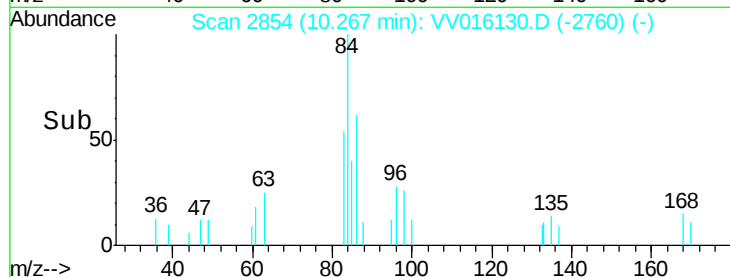


Abundance Ion 82.95 (82.65 to 83.65): VV016130.D (-2760) (-)

Ion 85.00 (84.70 to 85.70): VV016130.D (-2760) (-)

Ion 130.95 (130.65 to 131.65): VV016130.D (-2760) (-)

Time--> 10.20 10.25 10.30



#63

1,3-Dichlorobenzene

Concen: 0.280 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV016130.D

Acq: 20 May 2020 14:43

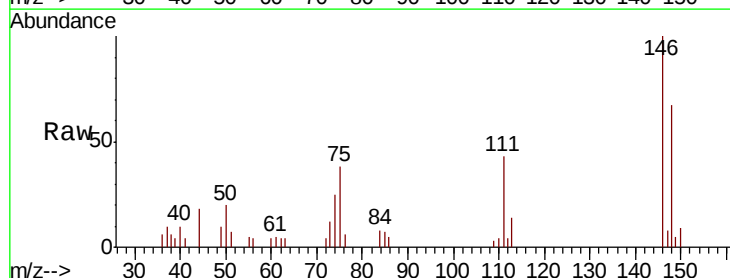
Tgt Ion: 146 Resp: 5275

Ion Ratio Lower Upper

146 100

111 42.5 28.7 53.3

148 67.0 44.0 81.8

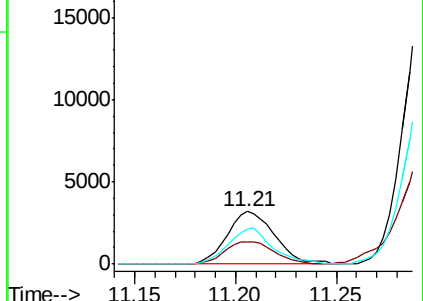
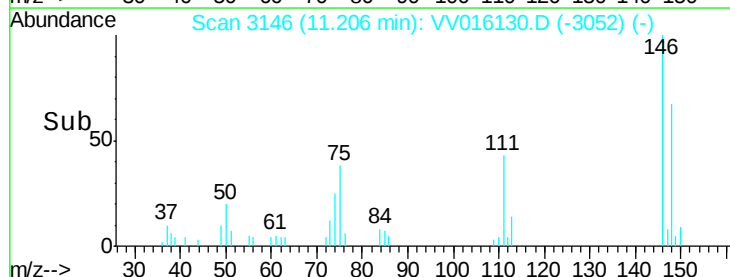


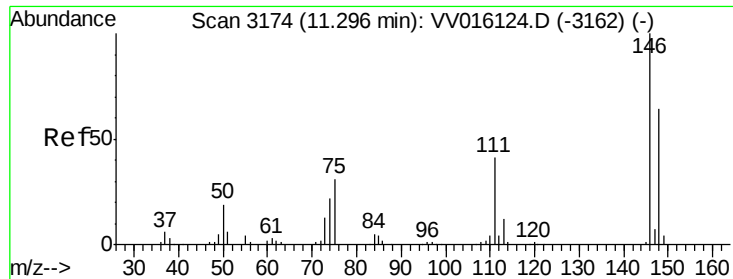
Abundance Ion 145.95 (145.65 to 146.65): VV016130.D (-3052) (-)

Ion 111.00 (110.70 to 111.70): VV016130.D (-3052) (-)

Ion 148.00 (147.70 to 148.70): VV016130.D (-3052) (-)

Time--> 11.15 11.20 11.25





#64

1,4-Dichlorobenzene

Concen: 1.549 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. -0.00 min

Lab File: VV016130.D

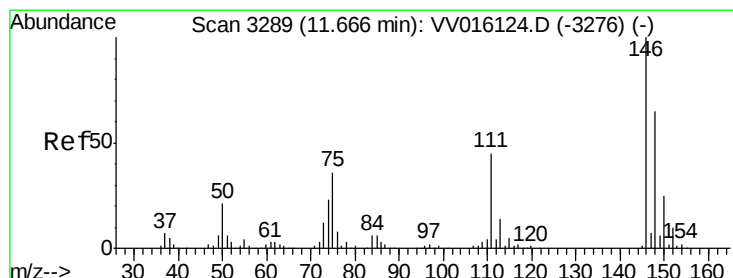
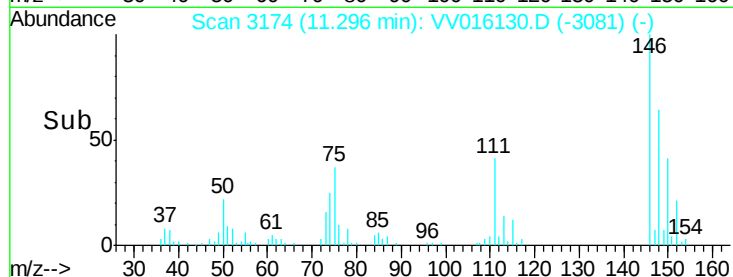
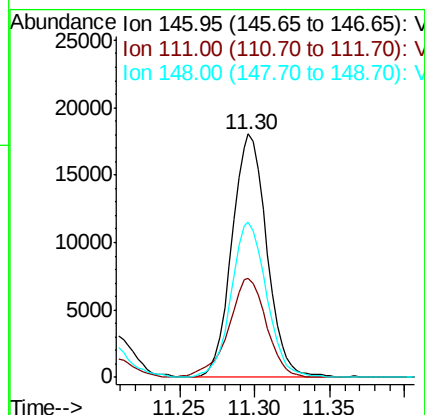
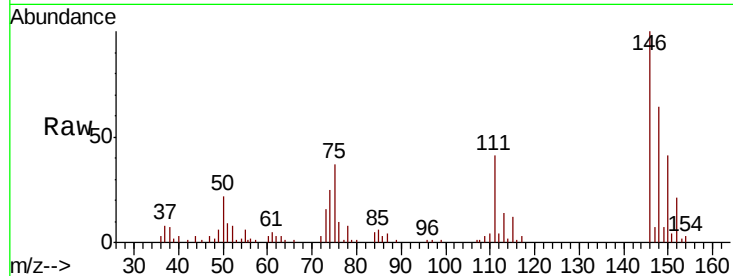
Acq: 20 May 2020 14:43

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion:146	Resp:	29341
Ion	Ratio	Lower Upper
146	100	
111	40.9	28.9 53.7
148	63.9	44.6 82.8



#66

1,2-Dichlorobenzene

Concen: 6.280 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV016130.D

Acq: 20 May 2020 14:43

Tgt Ion:146	Resp:	107179
Ion	Ratio	Lower Upper
146	100	
111	45.8	37.0 55.4
148	64.3	49.8 74.6

