

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV032720\
 Data File : VV015216.D
 Acq On : 27 Mar 2020 20:25
 Operator : SY/MD
 Sample : VSTD20061
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Mar 28 00:31:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM032720WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Mar 28 00:27:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	737637	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	724445	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	346244	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	537820	141.85	ug/L	0.00
7) Chloroethane-d5	1.58	69	575121	149.09	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.12	63	1448739	165.01	ug/L	0.00
21) 2-Butanone-d5	3.93	46	1374056	349.70	ug/L	0.00
24) Chloroform-d	4.38	84	1466459	170.95	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.06	65	949222	166.86	ug/L	0.00
32) Benzene-d6	5.08	84	2378337	162.45	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.09	67	881284	166.13	ug/L	0.00
41) Toluene-d8	7.34	98	2136864	162.10	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.64	79	494343	172.22	ug/L	0.00
47) 2-Hexanone-d5	8.11	63	1074528	343.33	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.24	84	1599281	176.01	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.65	152	1113396	173.95	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	1064455	166.676	ug/L	100
3) Chloromethane	1.25	50	1124280	161.808	ug/L	99
5) Vinyl chloride	1.32	62	1191006	166.710	ug/L	98
6) Bromomethane	1.53	94	783927	169.848	ug/L	100
8) Chloroethane	1.60	64	749755	161.255	ug/L	99
9) Trichlorofluoromethane	1.76	101	2130295	183.642	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1082128	179.855	ug/L	100
12) 1,1-Dichloroethene	2.13	96	1065091	180.608	ug/L	99
13) Acetone	2.22	43	793731	293.182	ug/L #	100
14) Carbon disulfide	2.31	76	2584277	172.378	ug/L	99
15) Methyl Acetate	2.46	43	914315	164.577	ug/L	98
16) Methylene chloride	2.52	84	963393	174.813	ug/L	97
17) trans-1,2-Dichloroethene	2.78	96	884364	173.063	ug/L	98
18) Methyl tert-butyl Ether	2.79	73	2995365	173.515	ug/L	100
19) 1,1-Dichloroethane	3.21	63	1635404	173.425	ug/L	100
20) cis-1,2-Dichloroethene	3.94	96	1010575	175.868	ug/L #	100
22) 2-Butanone	4.02	43	1318512	313.140	ug/L	82
23) Bromochloromethane	4.27	128	493805	178.831	ug/L	97
25) Chloroform	4.40	83	1714107	175.714	ug/L	98
27) 1,2-Dichloroethane	5.16	62	1345600	173.757	ug/L	99
29) Cyclohexane	4.70	56	1496730	170.797	ug/L	98
30) 1,1,1-Trichloroethane	4.63	97	1602299	176.244	ug/L	99
31) Carbon tetrachloride	4.86	117	1367756	178.759	ug/L	99
33) Benzene	5.13	78	3770204	176.157	ug/L	100
34) Trichloroethene	5.94	95	999770	179.499	ug/L	99
35) Methylcyclohexane	6.15	83	1591691	173.008	ug/L	98
37) 1,2-Dichloropropane	6.20	63	952124	174.330	ug/L	99
38) Bromodichloromethane	6.53	83	1382439	178.136	ug/L	97
39) cis-1,3-Dichloropropene	7.05	75	1648299	182.169	ug/L	99
40) 4-Methyl-2-pentanone	7.25	43	2727848	333.466	ug/L	99

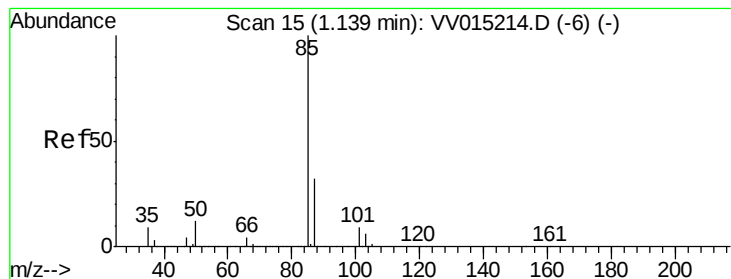
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV032720\
 Data File : VV015216.D
 Acq On : 27 Mar 2020 20:25
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Instrument :
 MSVOA_V
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Quant Time: Mar 28 00:31:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM032720WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Mar 28 00:27:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.41	91	4229593	177.390	ug/L	100
44) trans-1,3-Dichloropropene	7.67	75	1602803	180.559	ug/L	99
45) 1,1,2-Trichloroethane	7.86	97	956509	177.841	ug/L	97
46) Tetrachloroethene	8.00	164	695444	186.212	ug/L	98
48) 2-Hexanone	8.16	43	2119437	329.341	ug/L	98
49) Dibromochloromethane	8.27	129	1100883	186.453	ug/L	98
50) 1,2-Dibromoethane	8.37	107	1057621	181.564	ug/L	98
51) Chlorobenzene	8.90	112	2741374	179.874	ug/L	98
52) Ethylbenzene	9.04	91	4800798	178.648	ug/L	99
53) m,p-Xylene	9.16	106	1865793	182.213	ug/L	100
54) o-xylene	9.57	106	1839817	178.613	ug/L	93
55) Styrene	9.58	104	3161890	181.722	ug/L	98
56) Isopropylbenzene	9.95	105	4776917	180.698	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.26	83	1571588	174.370	ug/L	97
59) 1,2,3-Trichloropropane	10.30	75	1245604	172.235	ug/L	99
61) Bromoform	9.75	173	744249	188.499	ug/L	97
62) 1,3-Dichlorobenzene	11.20	146	2095630	182.583	ug/L	97
63) 1,4-Dichlorobenzene	11.30	146	2111218	181.845	ug/L	98
65) 1,2-Dichlorobenzene	11.67	146	2099702	180.541	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.45	75	418244	162.608	ug/L	95
67) 1,3,5-Trichlorobenzene	12.67	180	1397556	190.267	ug/L	100
68) 1,2,4-trichlorobenzene	13.29	180	1336014	191.155	ug/L	98
69) Naphthalene	13.53	128	5077264	181.873	ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	1343982	192.328	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 166.676 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Instrument :

MSVOA_V

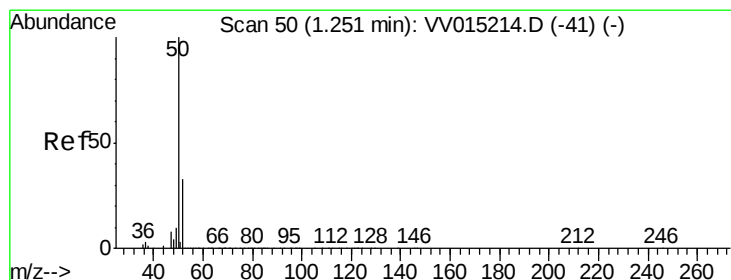
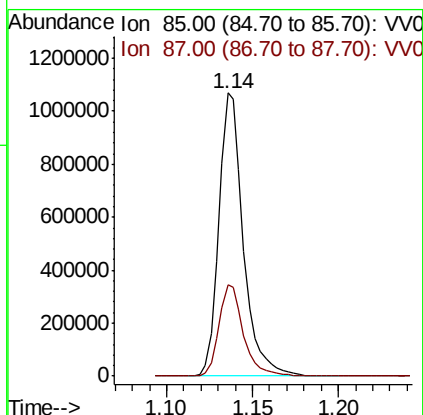
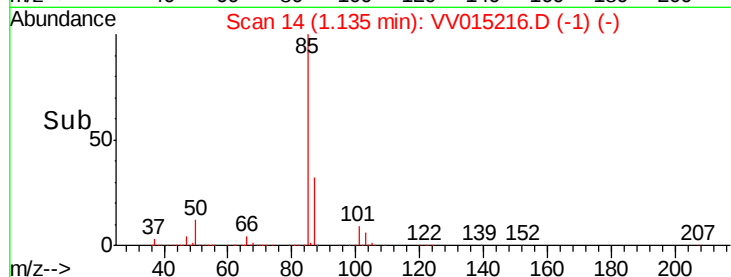
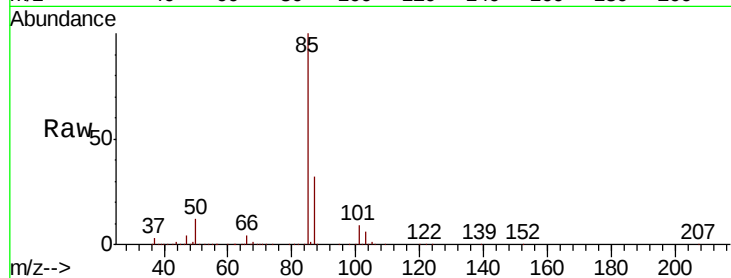
ClientSampleId :

Tot Ion: 85 Resp: 1064455

Ion Ratio Lower Upper

85 100

87 32.2 25.8 38.8



#3

Chloromethane

Concen: 161.808 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV015216.D

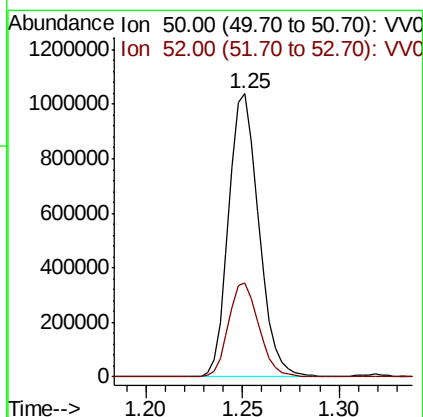
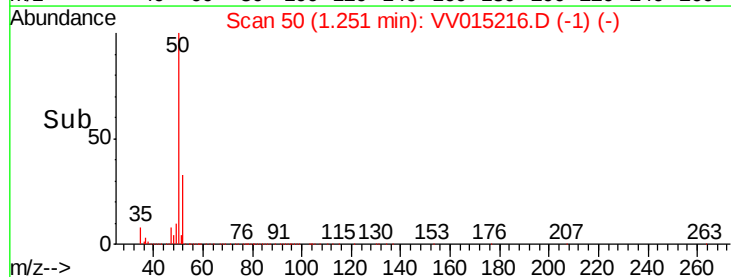
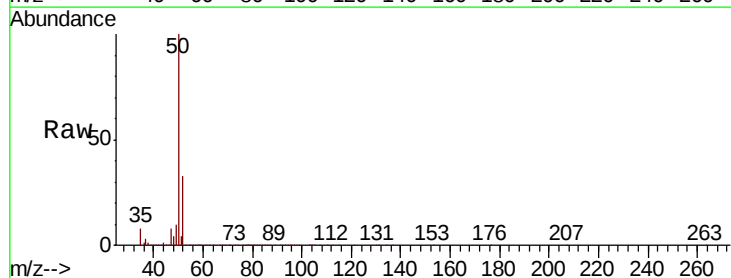
Acq: 27 Mar 2020 20:25

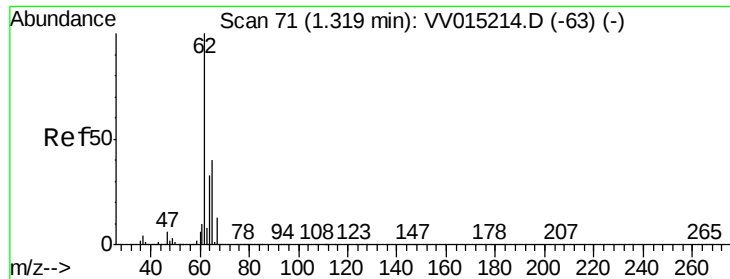
Tgt Ion: 50 Resp: 1124280

Ion Ratio Lower Upper

50 100

52 33.3 22.9 42.5





#5

Vinyl chloride

Concen: 166.710 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

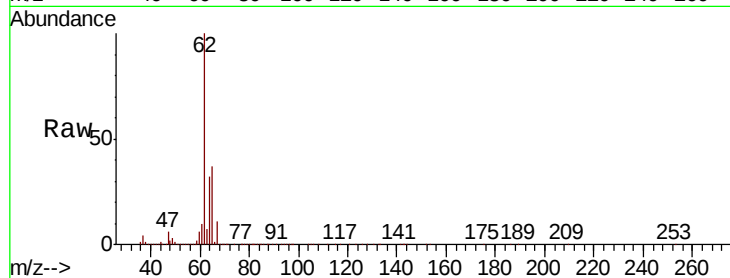
Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 1191006

Ion	Ratio	Lower	Upper
62	100		
64	32.5	23.5	43.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

1200000

1000000

800000

600000

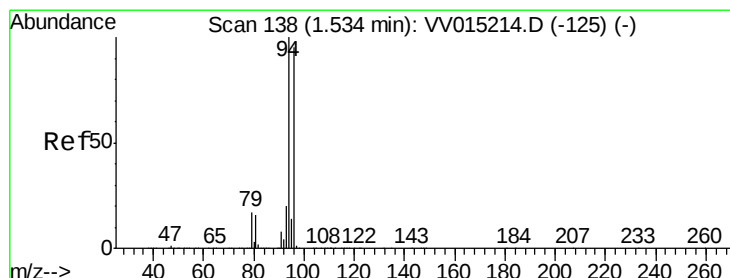
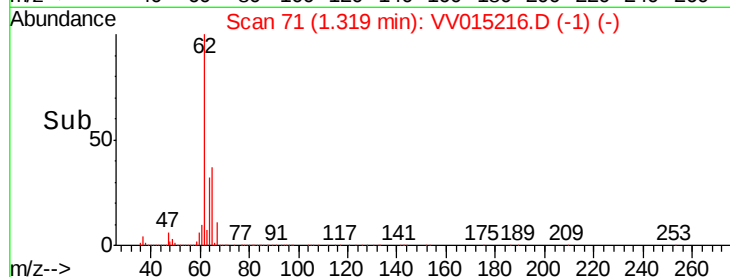
400000

200000

0

Time-->

1.25 1.30 1.35 1.40 1.45



#6

Bromomethane

Concen: 169.848 ug/L

RT: 1.53 min Scan# 137

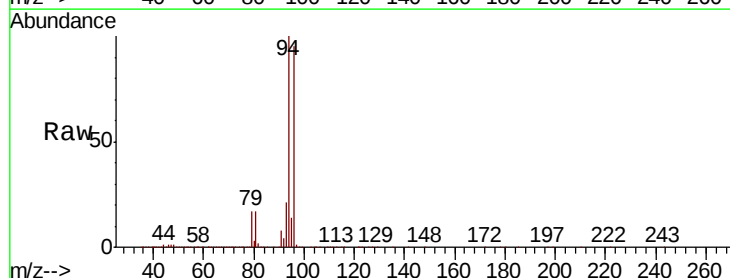
Delta R.T. -0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Tgt Ion: 94 Resp: 783927

Ion	Ratio	Lower	Upper
94	100		
96	94.8	66.6	123.6



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

600000

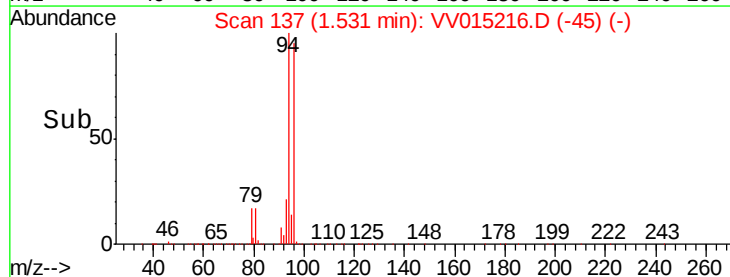
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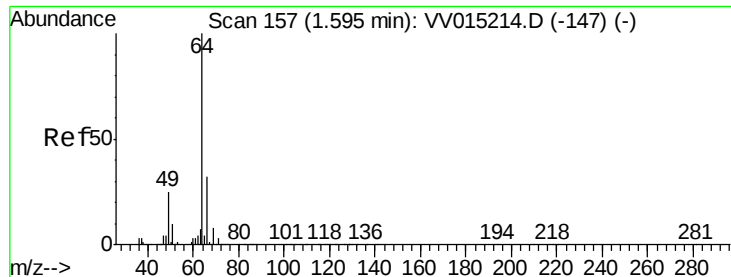
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0

Time-->

1.50 1.55 1.60





#8

Chloroethane

Concen: 161.255 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Instrument :

MSVOA_V

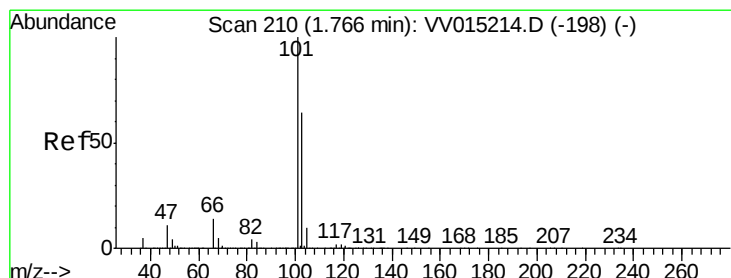
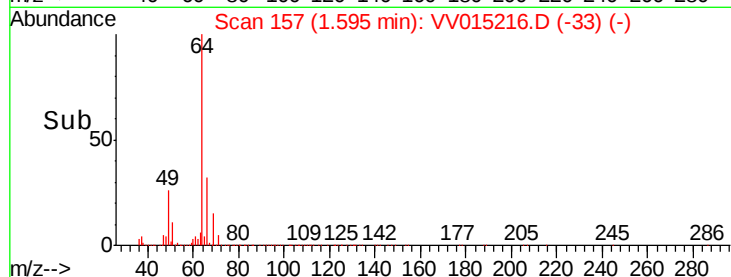
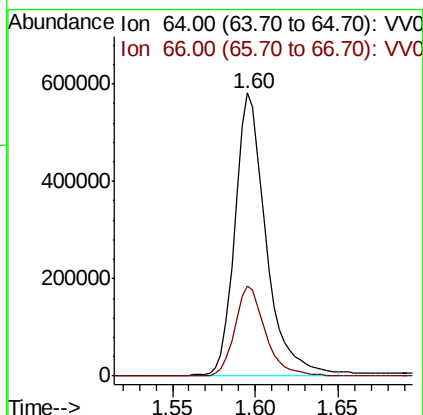
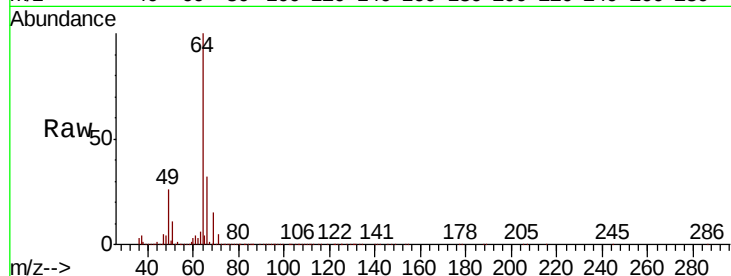
ClientSampleId :

Tot Ion: 64 Resp: 749755

Ion Ratio Lower Upper

64 100

66 32.1 22.1 41.1



#9

Trichlorofluoromethane

Concen: 183.642 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV015216.D

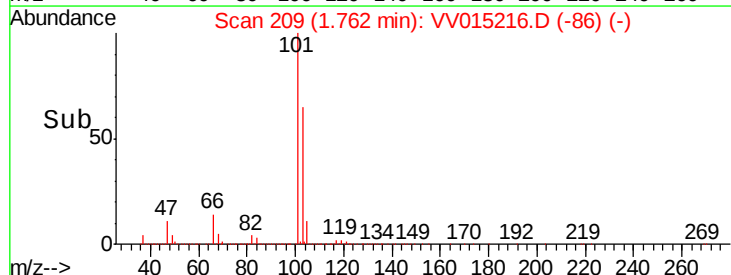
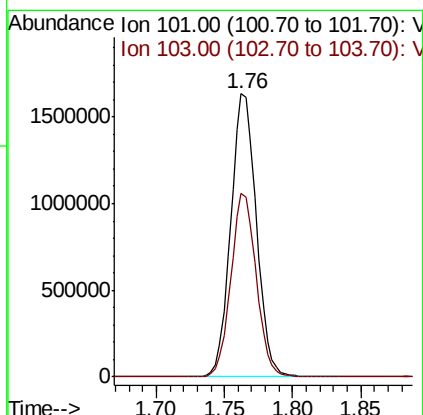
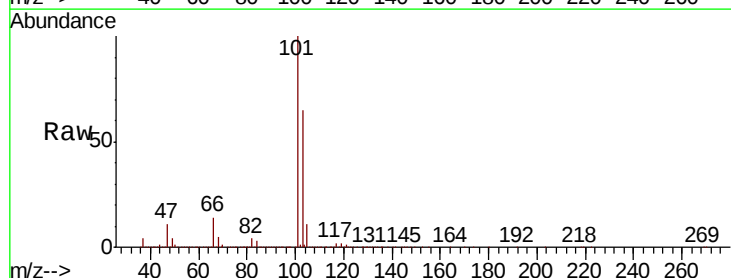
Acq: 27 Mar 2020 20:25

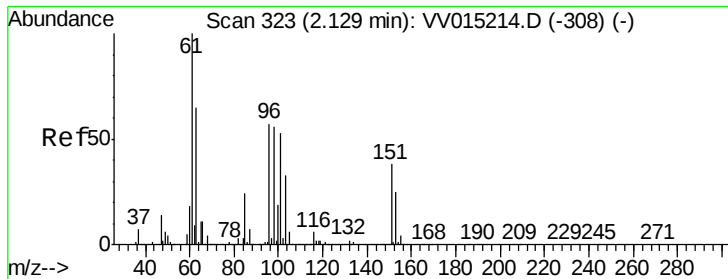
Tgt Ion: 101 Resp: 2130295

Ion Ratio Lower Upper

101 100

103 64.0 50.8 76.2





#10

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

Concen: 179.855 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Instrument :

MSVOA_V

ClientSampled :

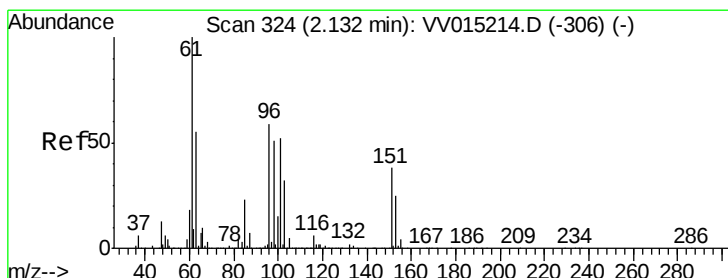
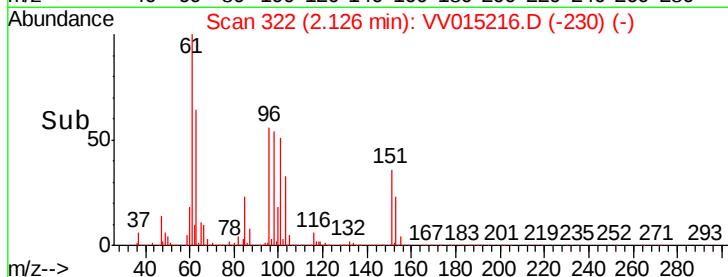
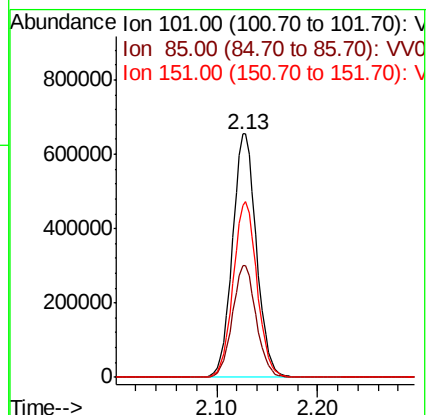
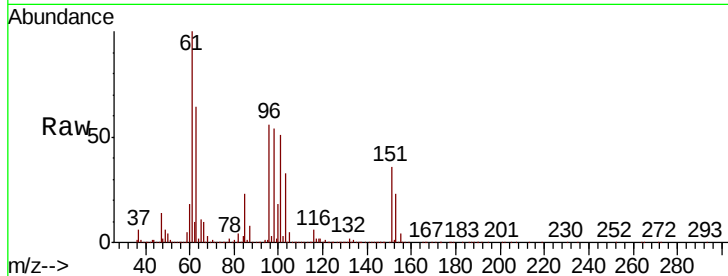
Tot Ion:101 Resp: 1082128

Ion Ratio Lower Upper

101 100

85 45.8 36.3 54.5

151 71.9 57.8 86.6



#12

1,1-Dichloroethene

Concen: 180.608 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

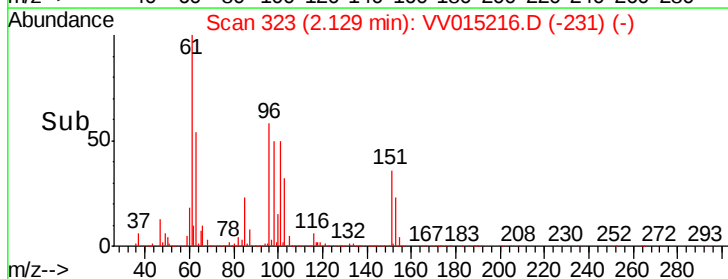
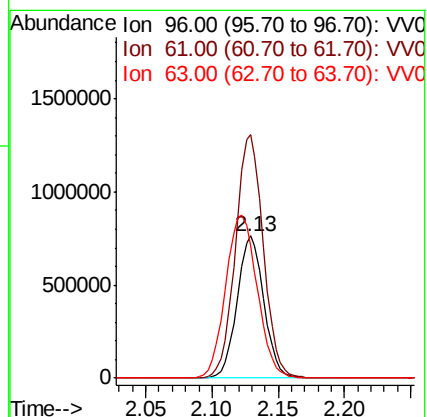
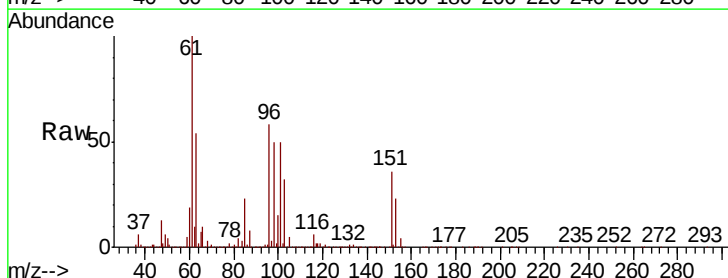
Tgt Ion: 96 Resp: 1065091

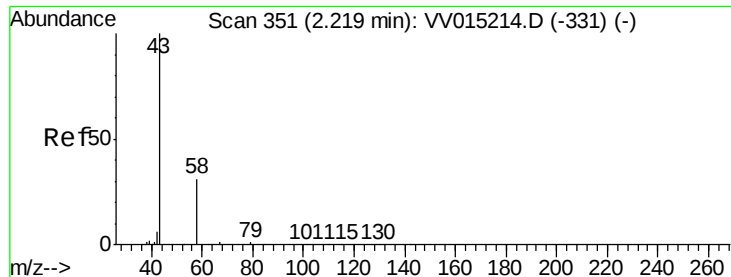
Ion Ratio Lower Upper

96 100

61 171.2 119.1 221.3

63 92.7 66.0 122.6





#13

Acetone

Concen: 293.182 ug/L

RT: 2.22 min Scan# 351

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

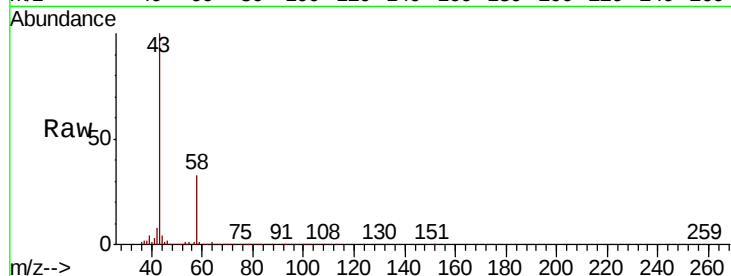
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 793731

Ion Ratio Lower Upper

43 100

58 32.9 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): VV015214.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV015214.D (-331) (-)

400000

300000

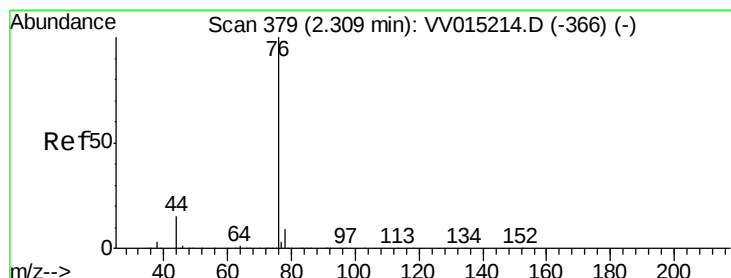
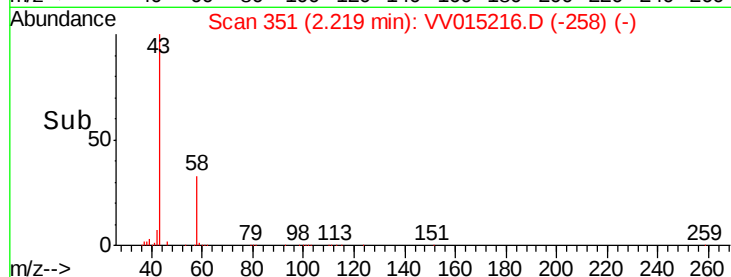
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100000

0

2.10 2.20 2.30 2.40 2.50

Time-->



#14

Carbon disulfide

Concen: 172.378 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VV015216.D

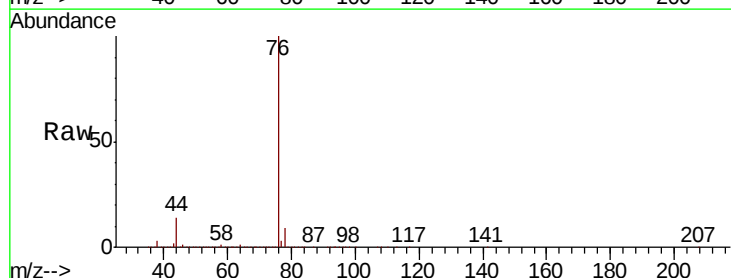
Acq: 27 Mar 2020 20:25

Tgt Ion: 76 Resp: 2584277

Ion Ratio Lower Upper

76 100

78 9.4 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV015214.D (-366) (-)

Ion 78.00 (77.70 to 78.70): VV015214.D (-366) (-)

2000000

1500000

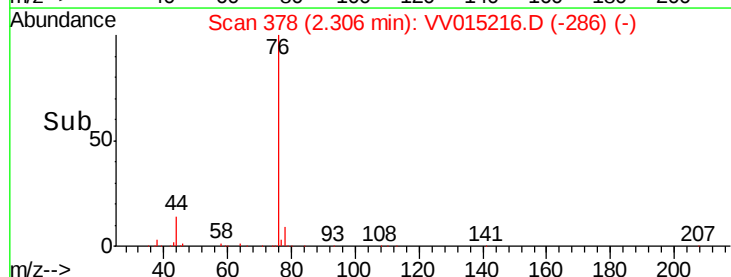
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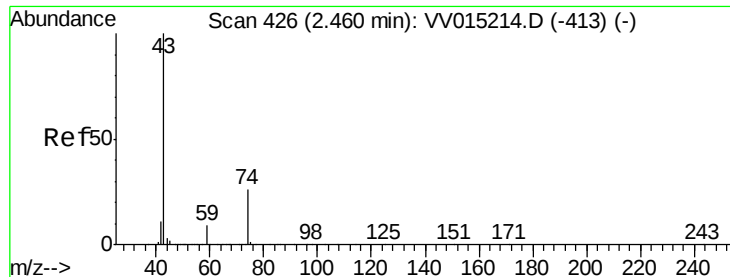
500000

0

2.20 2.30 2.40

Time-->

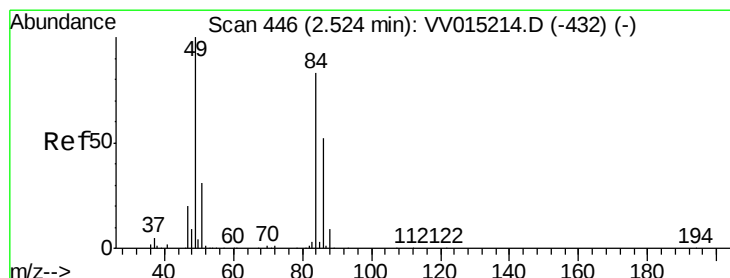
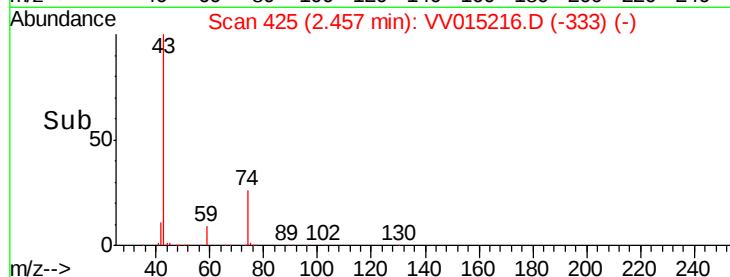
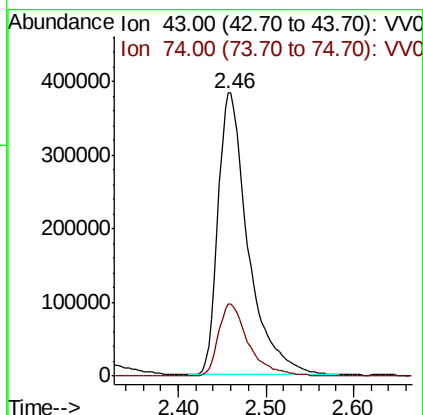
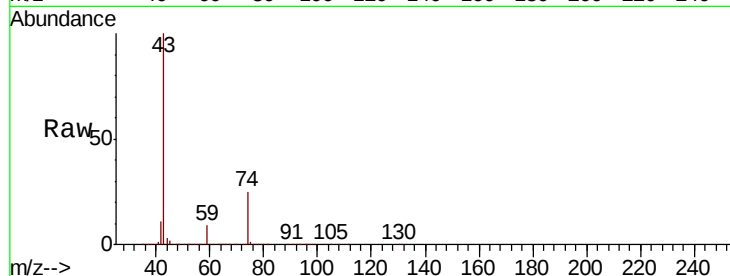




#15
Methvl Acetate
Concen: 164.577 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.00 min
Lab File: VV015216.D
Acq: 27 Mar 2020 20:25

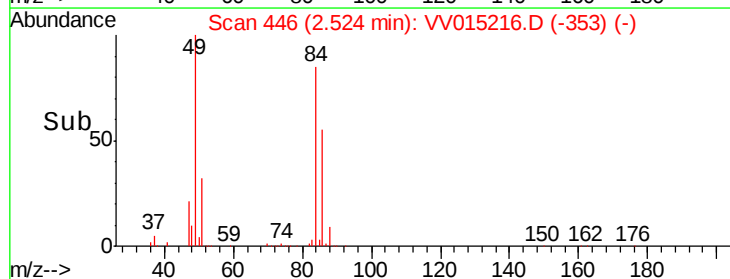
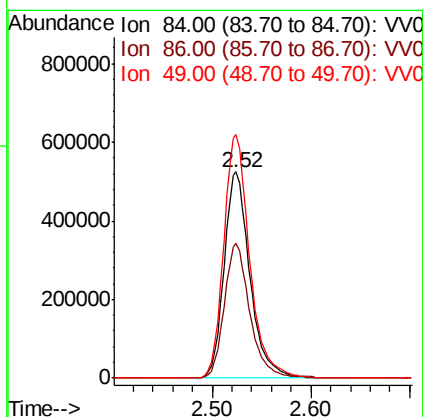
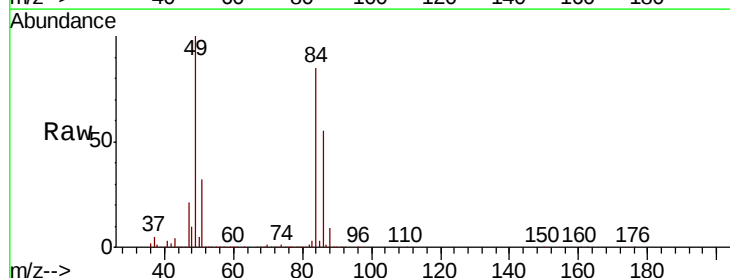
Instrument :
MSVOA_V
ClientSampleId :

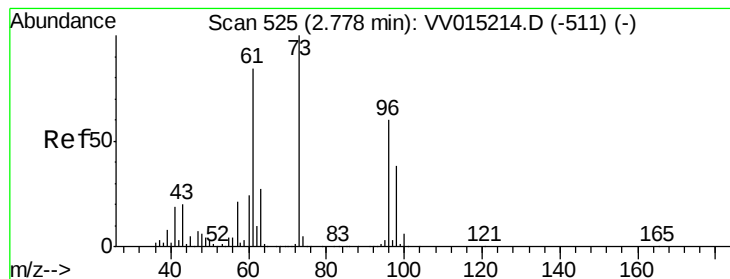
Tot Ion: 43 Resp: 914315
Ion Ratio Lower Upper
43 100
74 25.8 19.7 29.5



#16
Methylene chloride
Concen: 174.813 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV015216.D
Acq: 27 Mar 2020 20:25

Tgt Ion: 84 Resp: 963393
Ion Ratio Lower Upper
84 100
86 65.2 43.8 81.4
49 118.0 84.8 157.4





#17

trans-1,2-Dichloroethene

Concen: 173.063 ug/L

RT: 2.78 min Scan# 524

Delta R.T. -0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Instrument :
MSVOA_V
ClientSampleId :

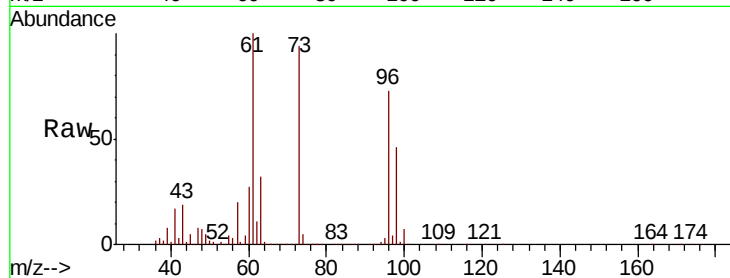
Tot Ion: 96 Resp: 884364

Ion Ratio Lower Upper

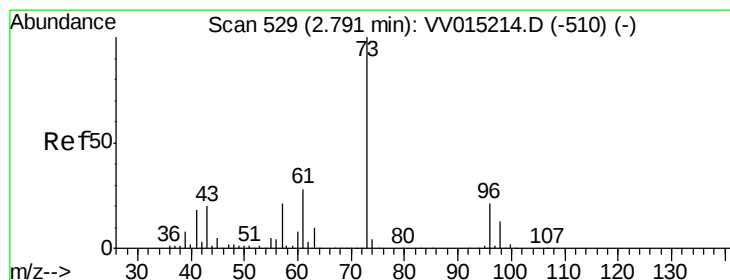
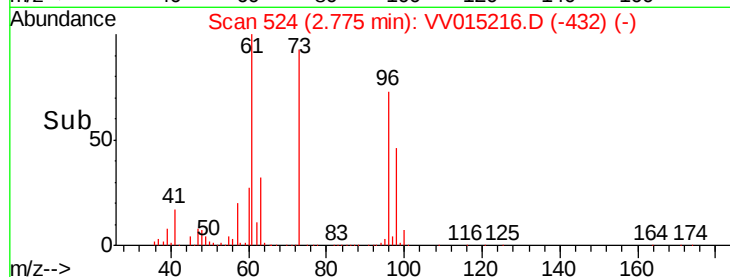
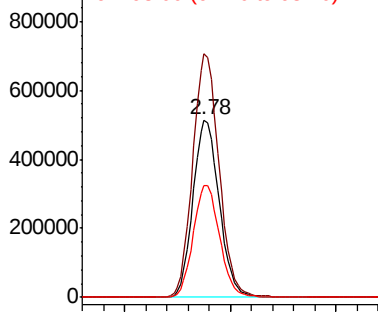
96 100

61 137.2 97.9 181.7

98 63.2 43.8 81.4



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 173.515 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

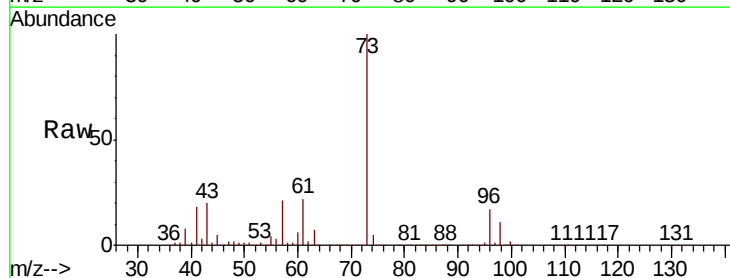
Tgt Ion: 73 Resp: 2995365

Ion Ratio Lower Upper

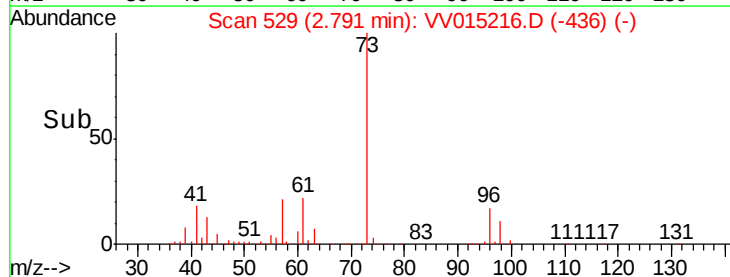
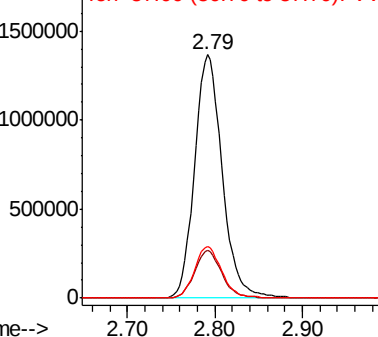
73 100

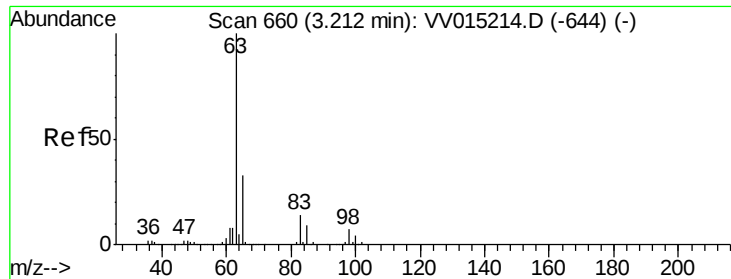
43 19.2 15.5 23.3

57 21.0 16.7 25.1



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 173.425 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Instrument :
MSVOA_V
ClientSampled :

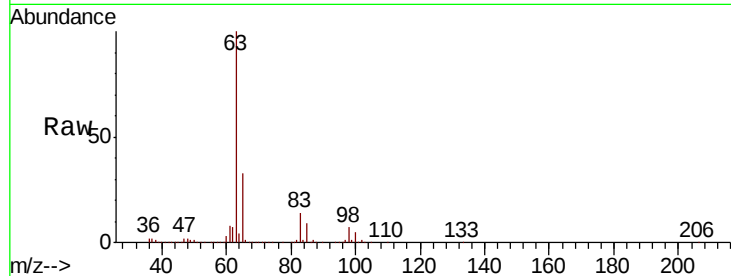
Tot Ion: 63 Resp: 1635404

Ion Ratio Lower Upper

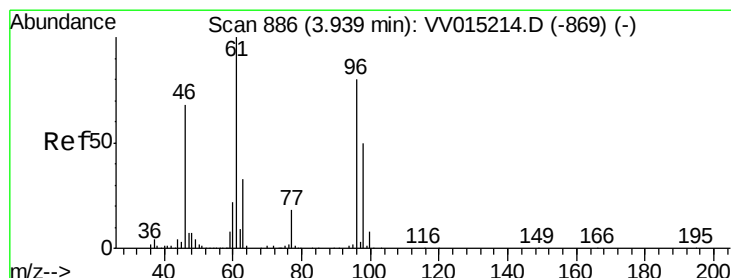
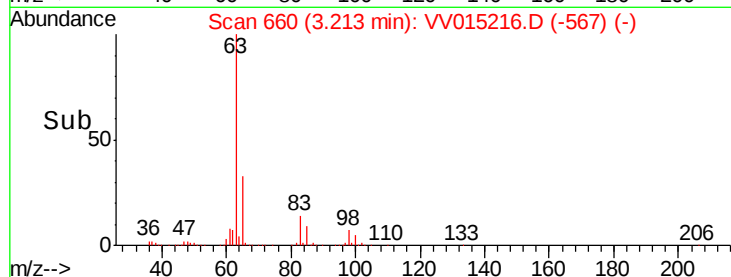
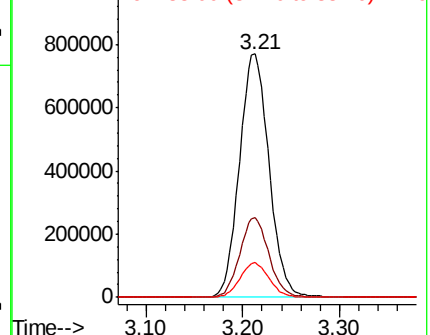
63 100

65 32.6 22.8 42.4

83 14.2 9.7 17.9



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 65.00 (64.70 to 65.70): VV0
Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 175.868 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

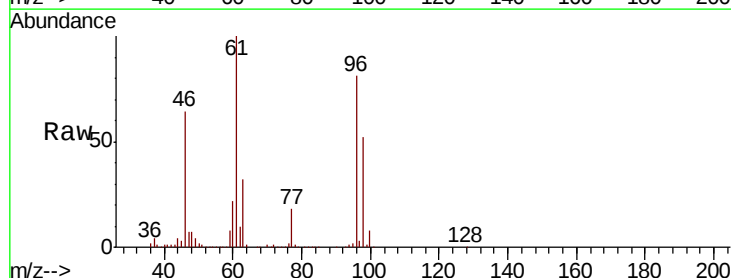
Tgt Ion: 96 Resp: 1010575

Ion Ratio Lower Upper

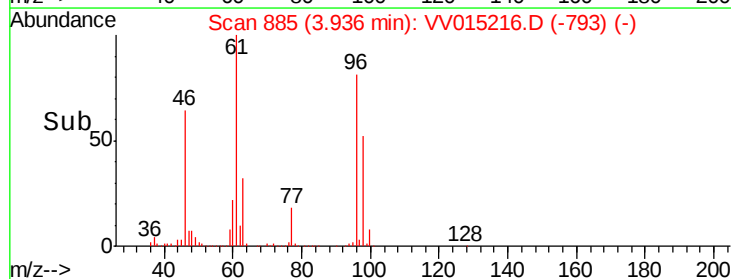
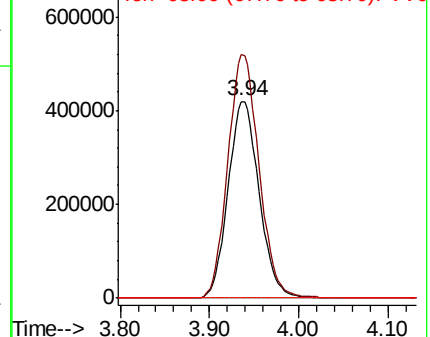
96 100

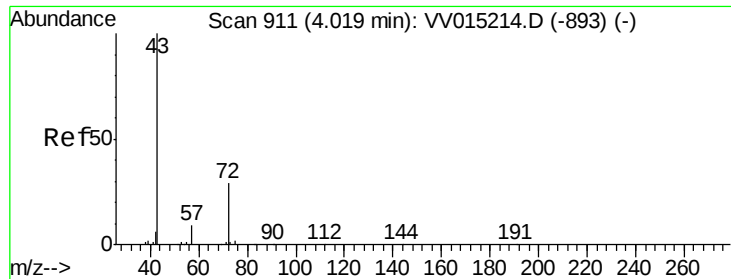
61 124.0 87.2 162.0

68 0.0 0.1 0.3#



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 313.140 ug/L

RT: 4.02 min Scan# 910

Delta R.T. -0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

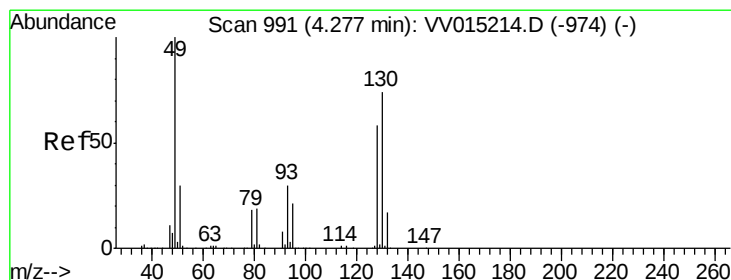
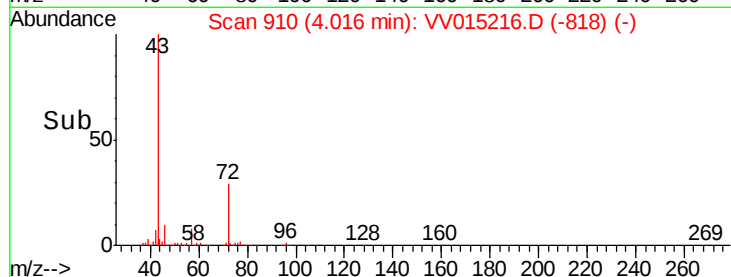
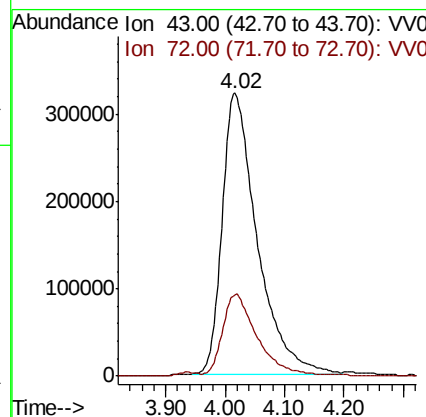
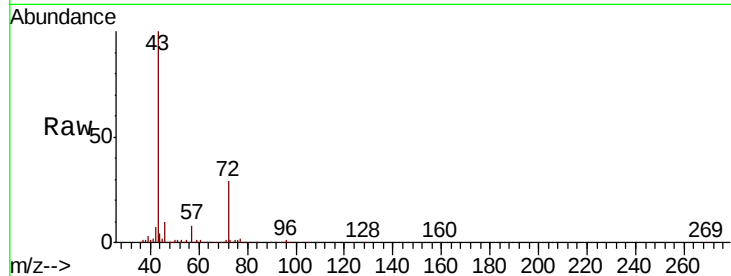
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 1318512

Ion Ratio Lower Upper

43 100

72 27.8 9.8 29.5



#23

Bromochloromethane

Concen: 178.831 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Tgt Ion:128 Resp: 493805

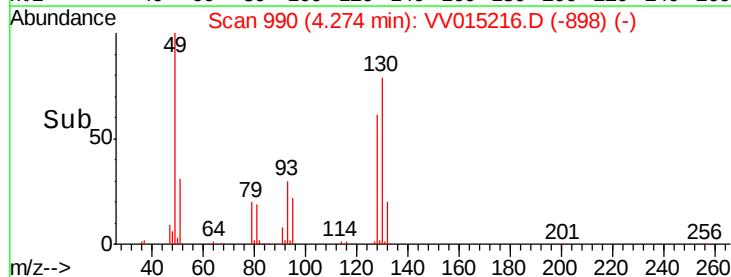
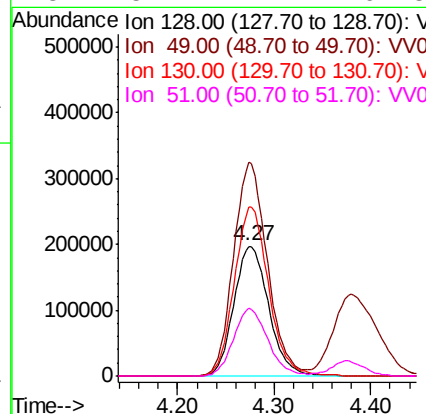
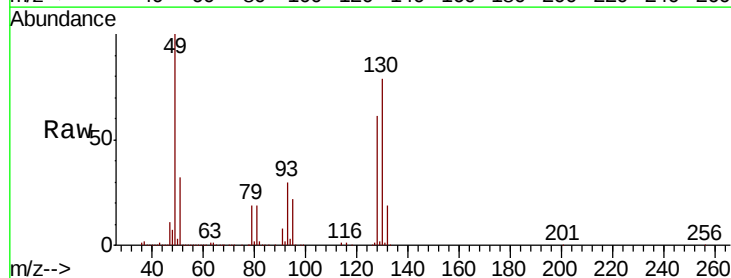
Ion Ratio Lower Upper

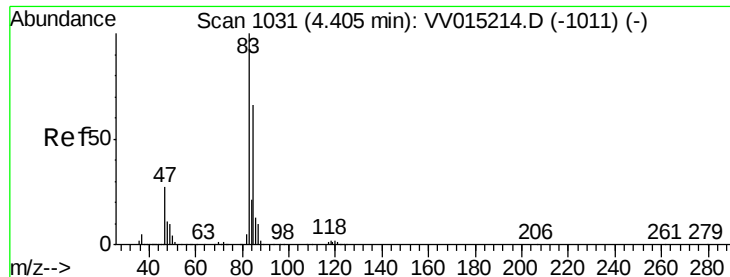
128 100

49 164.6 120.6 224.0

130 129.9 89.7 166.5

51 52.1 41.7 62.5

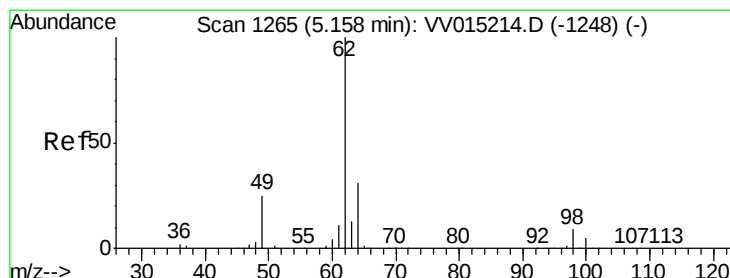
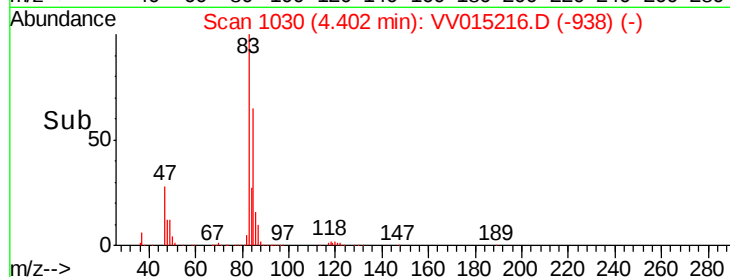
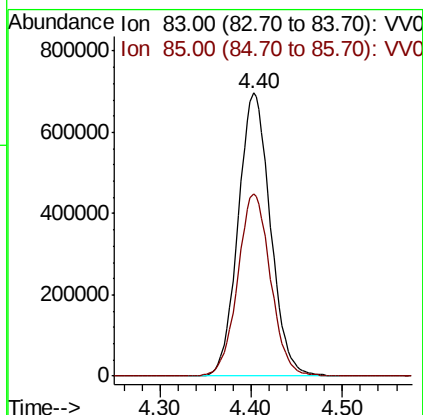
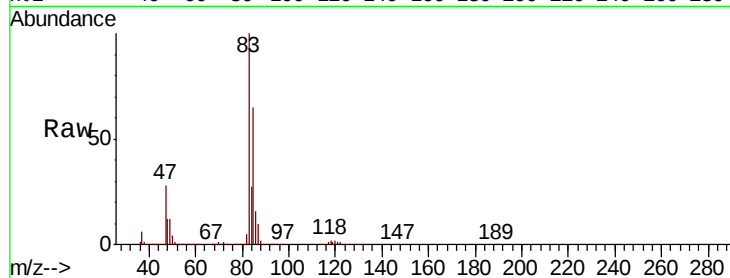




#25
Chloroform
Concen: 175.714 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VV015216.D
Acq: 27 Mar 2020 20:25

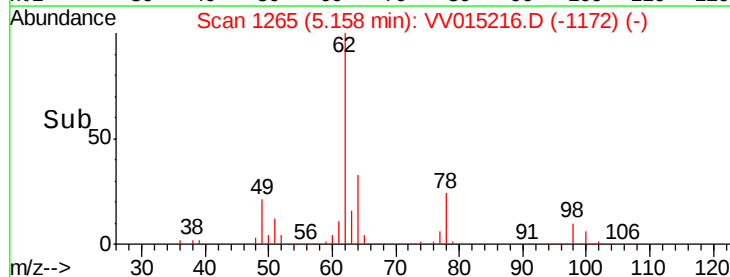
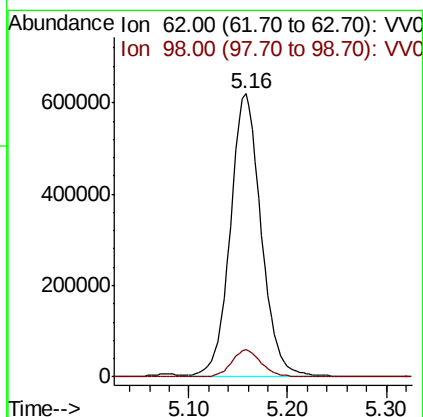
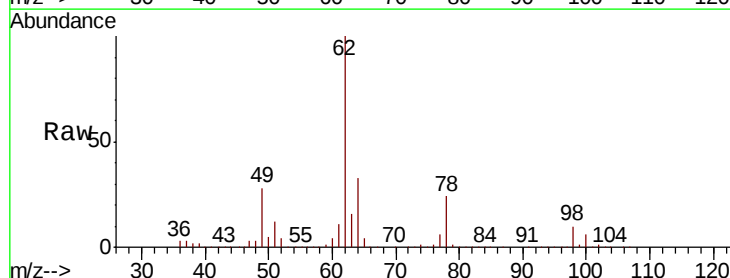
Instrument :
MSVOA_V
ClientSampleId :

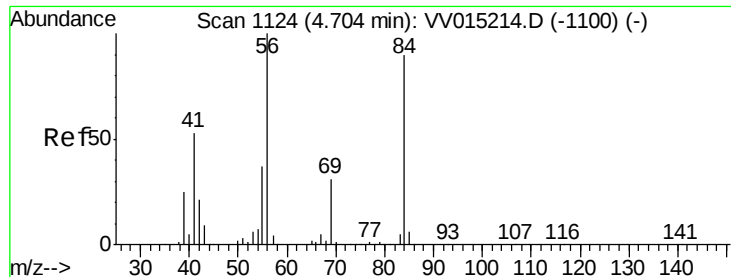
Tot Ion: 83 Resp: 1714107
Ion Ratio Lower Upper
83 100
85 64.6 46.2 85.8



#27
1,2-Dichloroethane
Concen: 173.757 ug/L
RT: 5.16 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VV015216.D
Acq: 27 Mar 2020 20:25

Tgt Ion: 62 Resp: 1345600
Ion Ratio Lower Upper
62 100
98 9.6 7.4 11.0

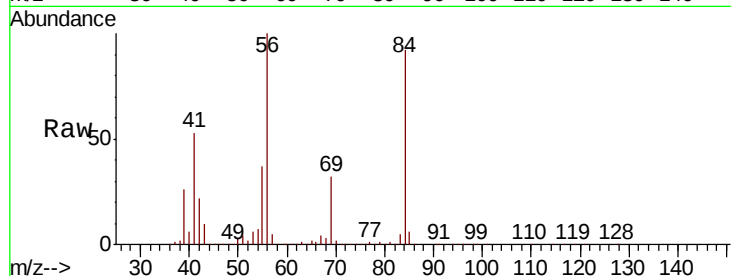




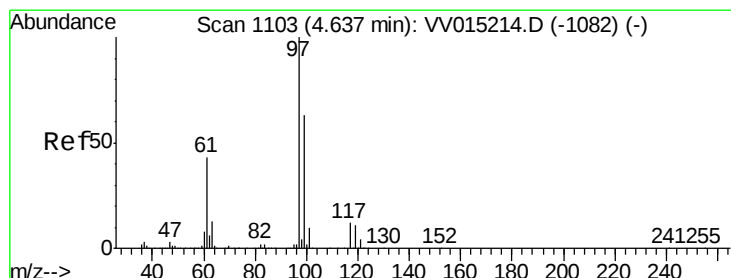
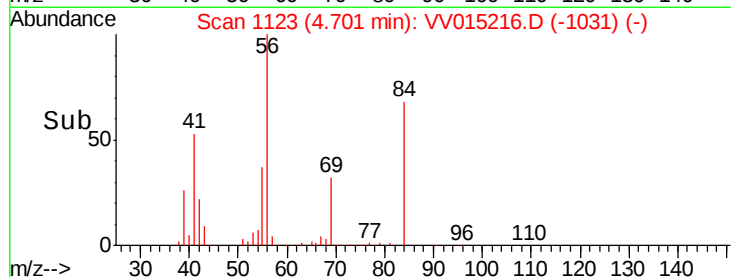
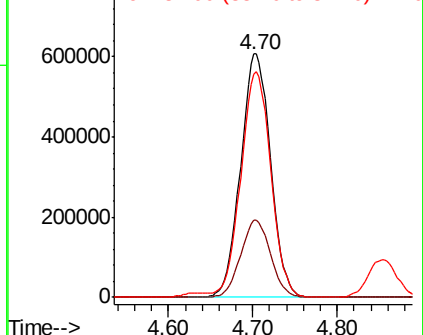
#29
Cyclohexane
Concen: 170.797 ug/L
RT: 4.70 min Scan# 1123
Delta R.T. -0.00 min
Lab File: VV015216.D
Acq: 27 Mar 2020 20:25

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 56 Resp: 1496730
Ion Ratio Lower Upper
56 100
69 31.7 25.8 38.6
84 92.9 72.5 108.7

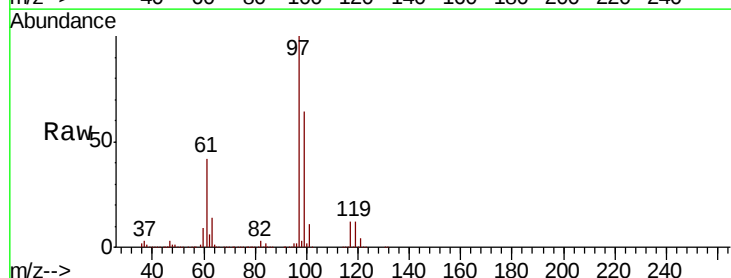


Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0

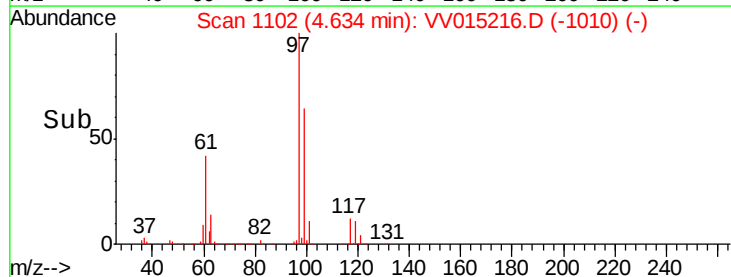
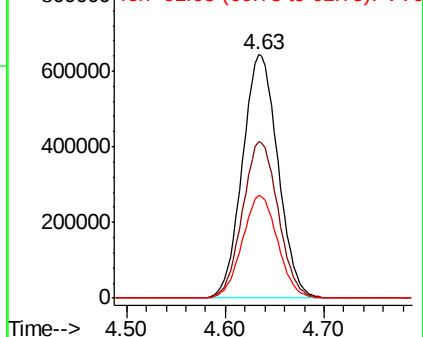


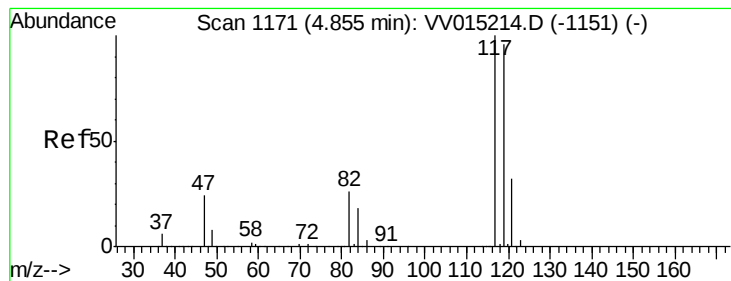
#30
1,1,1-Trichloroethane
Concen: 176.244 ug/L
RT: 4.63 min Scan# 1102
Delta R.T. -0.00 min
Lab File: VV015216.D
Acq: 27 Mar 2020 20:25

Tgt Ion: 97 Resp: 1602299
Ion Ratio Lower Upper
97 100
99 64.3 50.6 75.8
61 42.0 33.4 50.2



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 178.759 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Instrument :

MSVOA_V

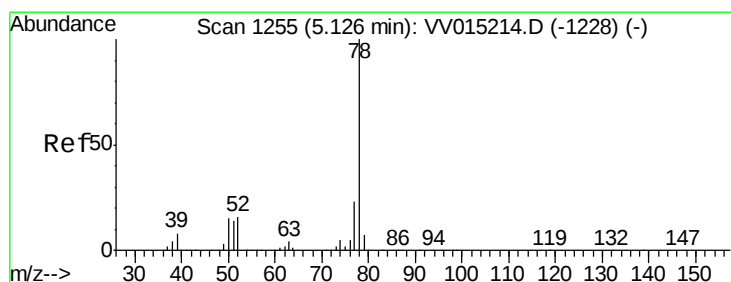
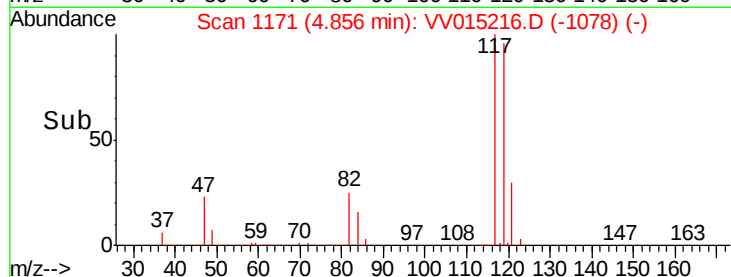
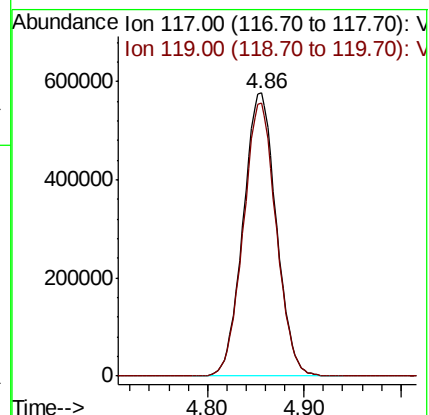
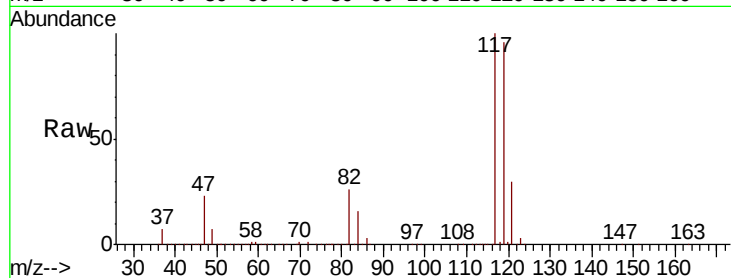
ClientSampleId :

Tot Ion:117 Resp: 1367756

Ion Ratio Lower Upper

117 100

119 96.1 76.0 114.0



#33

Benzene

Concen: 176.157 ug/L

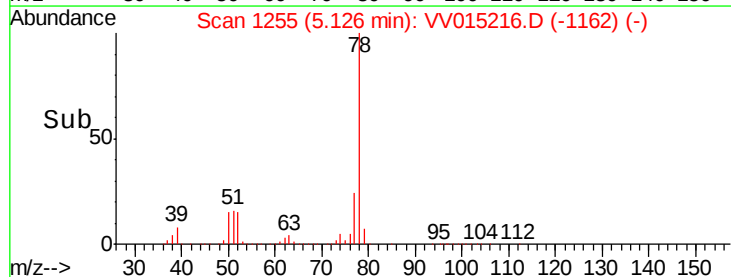
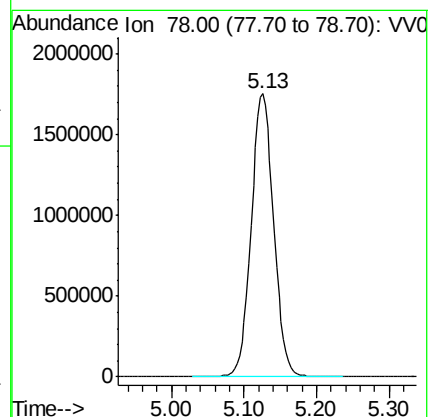
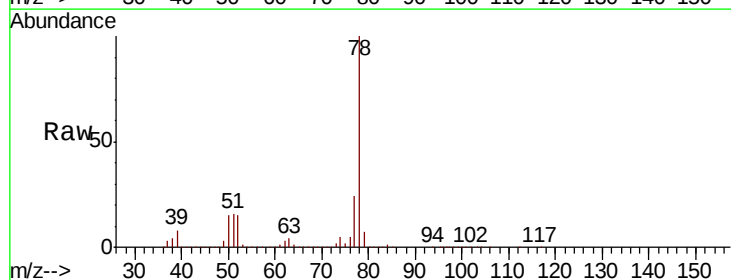
RT: 5.13 min Scan# 1255

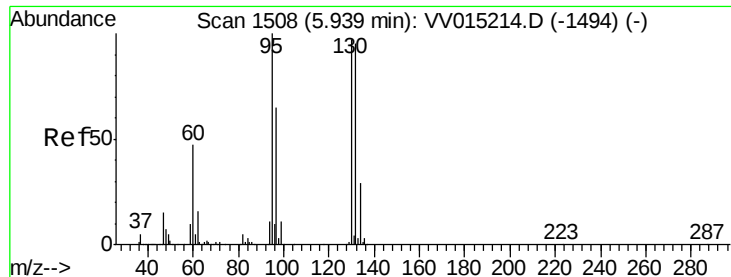
Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Tgt Ion: 78 Resp: 3770204





#34

Trichloroethene

Concen: 179.499 ug/L

RT: 5.94 min Scan# 1507

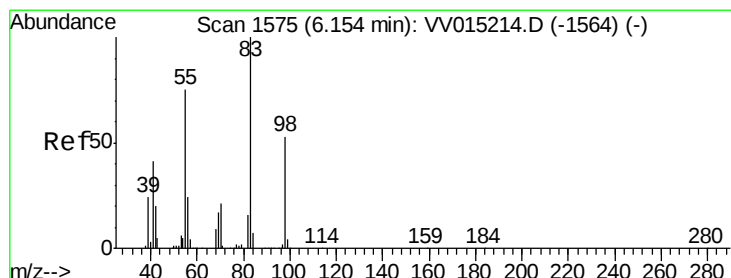
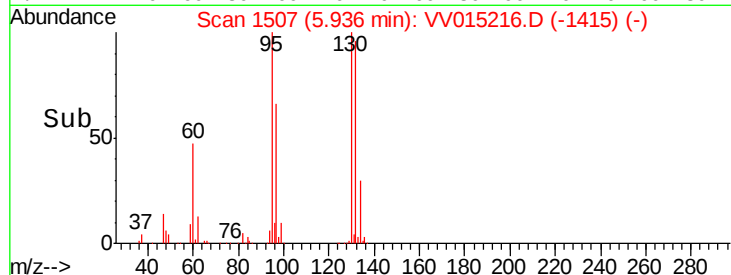
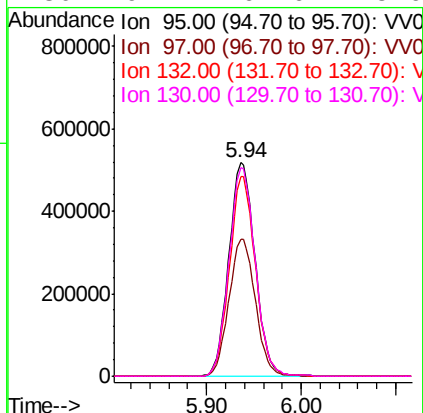
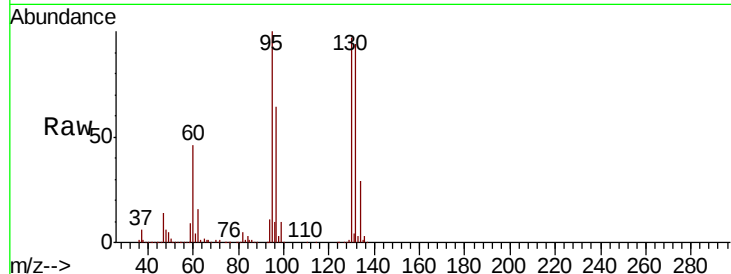
Delta R.T. -0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	95	Resp:	999770
Ion	Ratio	Lower	Upper
95	100		
97	64.3	45.7	84.9
132	93.5	66.2	123.0
130	97.4	67.6	125.6



#35

Methylcyclohexane

Concen: 173.008 ug/L

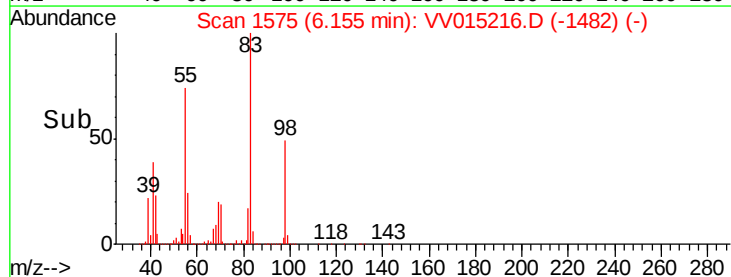
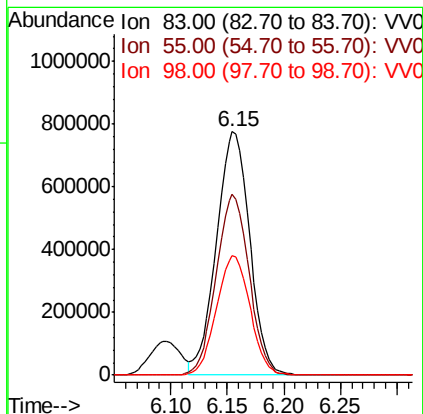
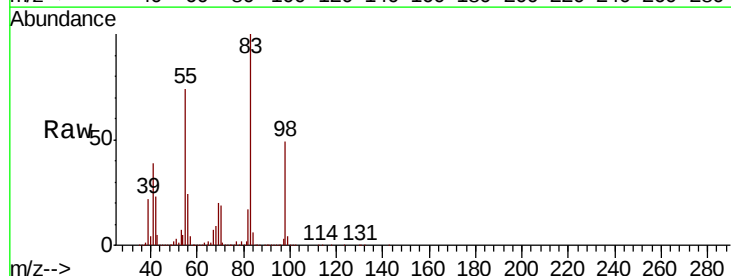
RT: 6.15 min Scan# 1575

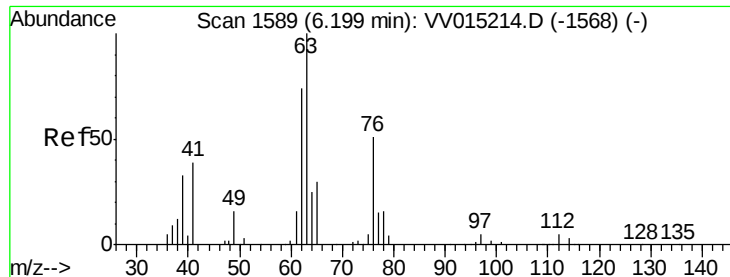
Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Tgt Ion:	83	Resp:	1591691
Ion	Ratio	Lower	Upper
83	100		
55	73.3	58.2	87.2
98	49.3	41.0	61.4

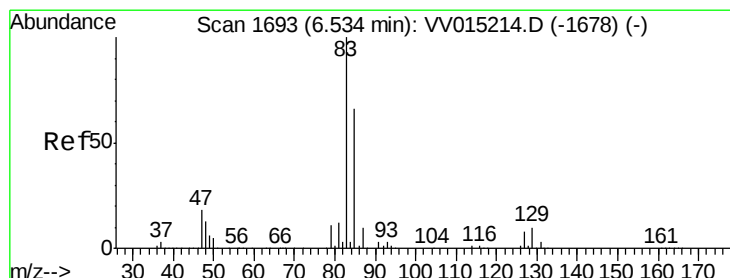
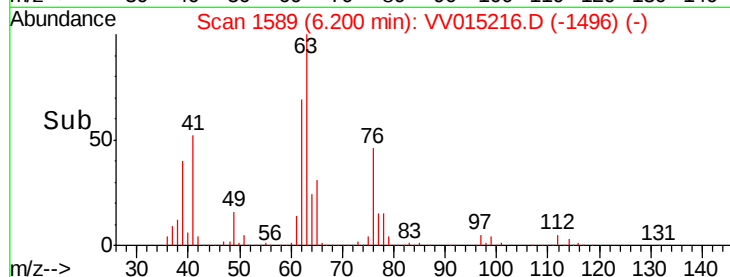
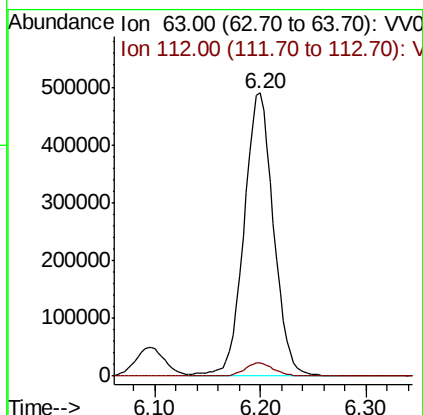
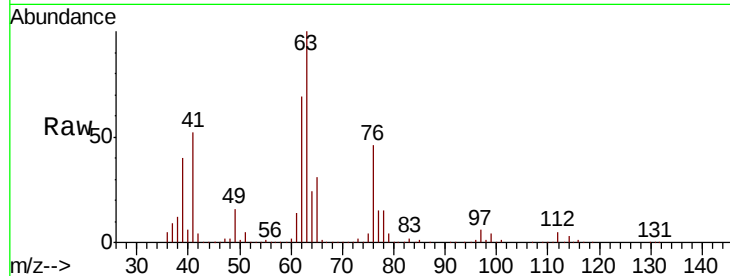




#37
 1,2-Dichloropropane
 Concen: 174.330 ug/L
 RT: 6.20 min Scan# 1589
 Delta R.T. 0.00 min
 Lab File: VV015216.D
 Acq: 27 Mar 2020 20:25

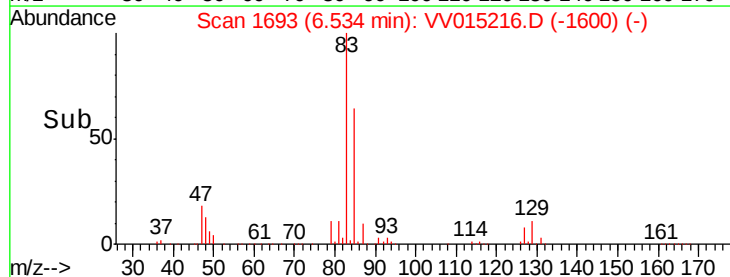
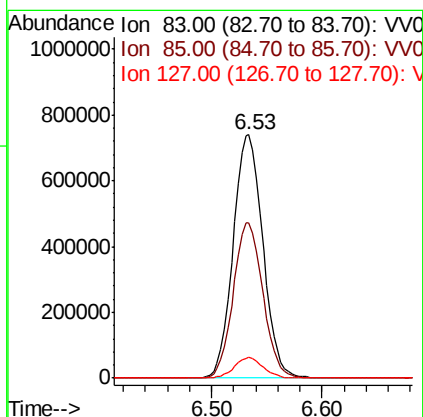
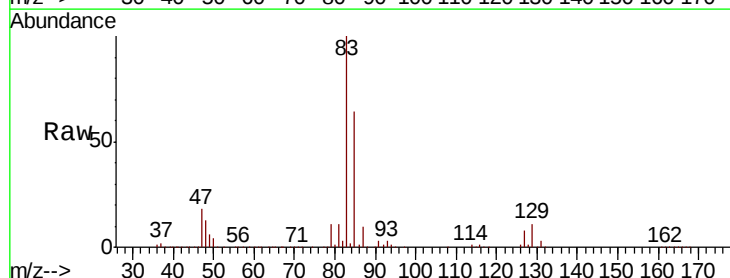
Instrument :
 MSVOA_V
 ClientSampled :

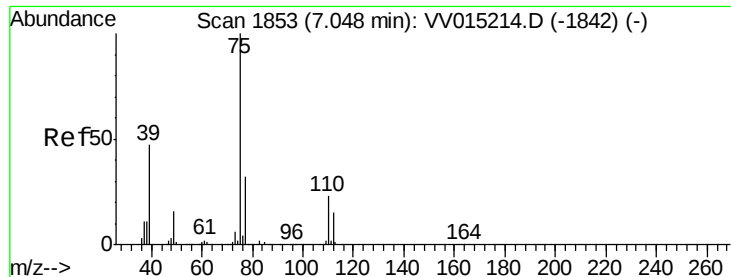
Tot Ion: 63 Resp: 952124
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.5 5.3



#38
 Bromodichloromethane
 Concen: 178.136 ug/L
 RT: 6.53 min Scan# 1693
 Delta R.T. 0.00 min
 Lab File: VV015216.D
 Acq: 27 Mar 2020 20:25

Tgt Ion: 83 Resp: 1382439
 Ion Ratio Lower Upper
 83 100
 85 63.7 46.3 85.9
 127 8.4 6.5 9.7



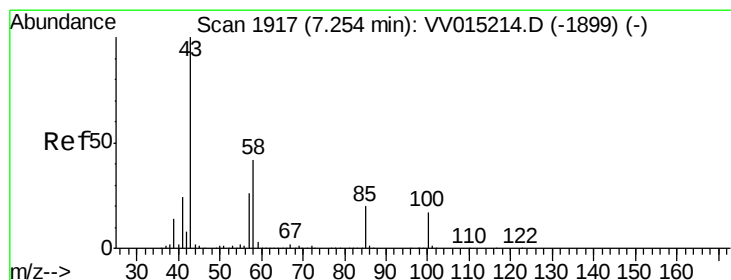
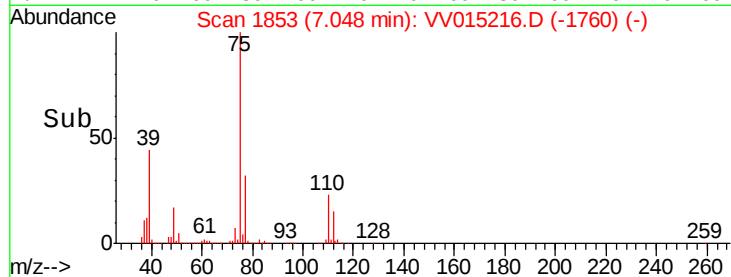
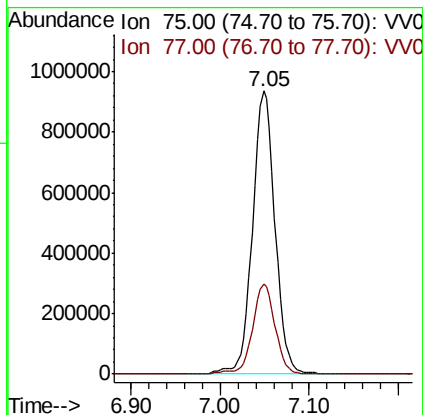
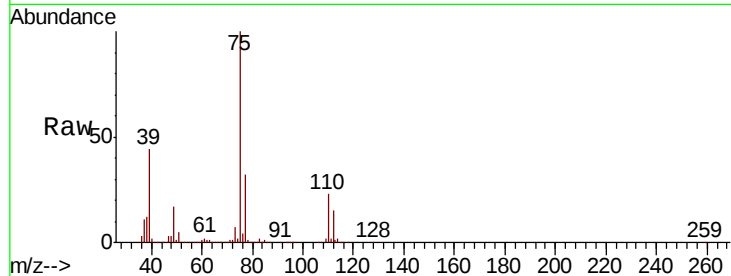


#39

cis-1,3-Dichloropropene
 Concen: 182.169 ug/L
 RT: 7.05 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VV015216.D
 Acq: 27 Mar 2020 20:25

Instrument :
 MSVOA_V
 ClientSampled :

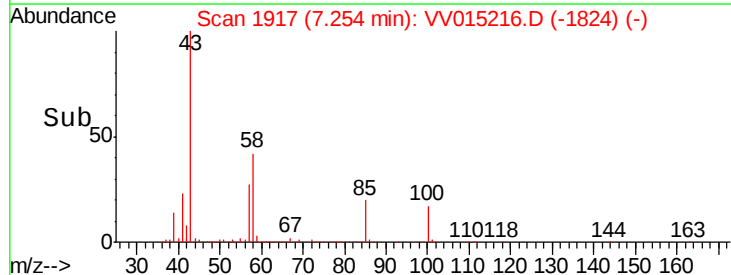
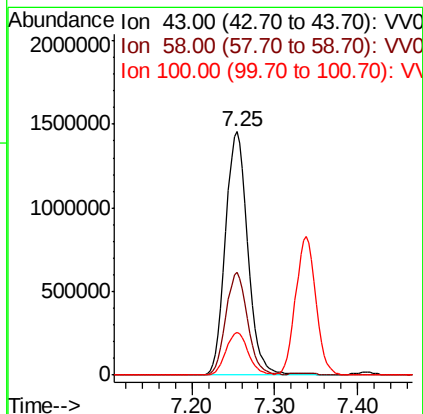
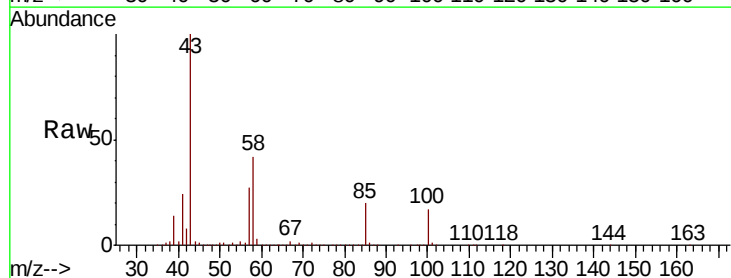
Tot Ion: 75 Resp: 1648299
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.5 41.9

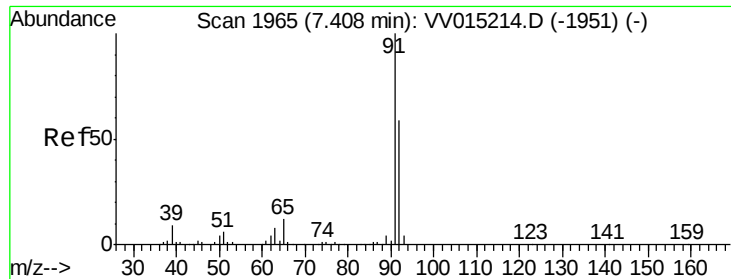


#40

4-Methyl-2-pentanone
 Concen: 333.466 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VV015216.D
 Acq: 27 Mar 2020 20:25

Tgt Ion: 43 Resp: 2727848
 Ion Ratio Lower Upper
 43 100
 58 41.1 32.5 48.7
 100 17.4 13.4 20.0





#42

Toluene

Concen: 177.390 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

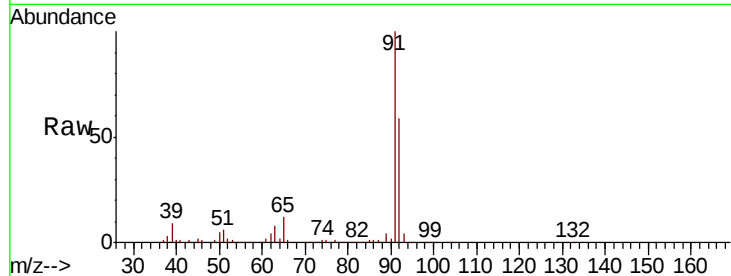
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 4229593

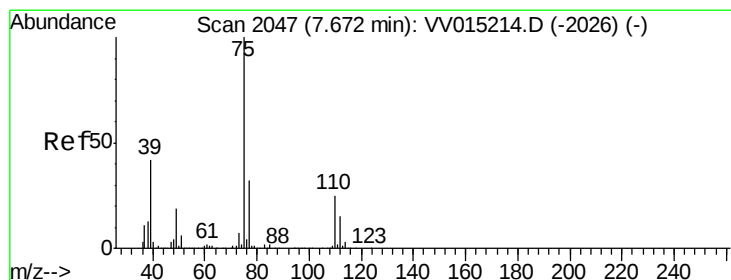
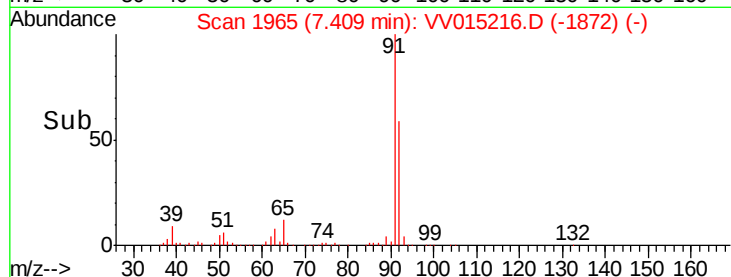
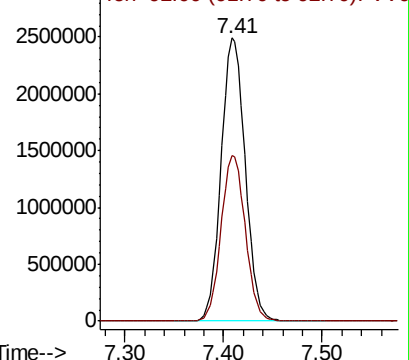
Ion Ratio Lower Upper

91 100

92 58.7 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV015214.D (-1951) (-)



#44

trans-1,3-Dichloropropene

Concen: 180.559 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VV015216.D

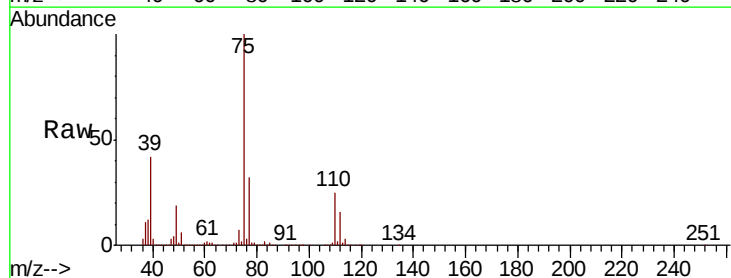
Acq: 27 Mar 2020 20:25

Tgt Ion: 75 Resp: 1602803

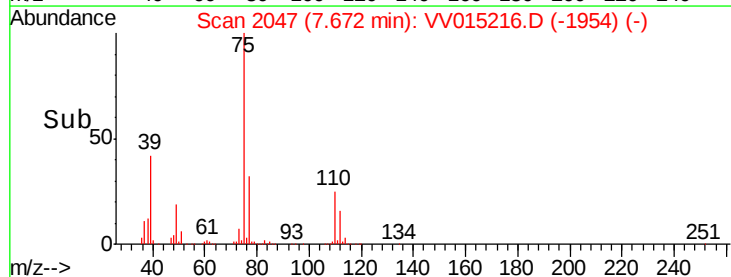
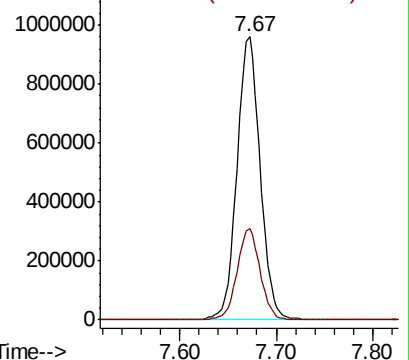
Ion Ratio Lower Upper

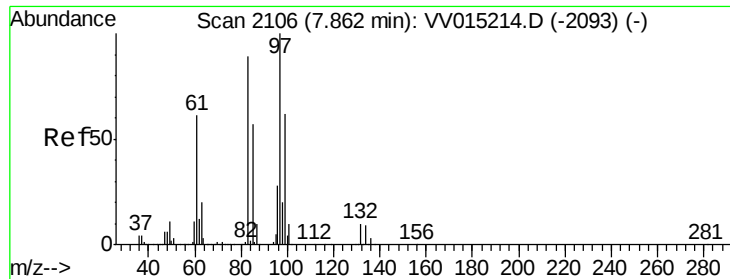
75 100

77 32.4 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VV015214.D (-2026) (-)

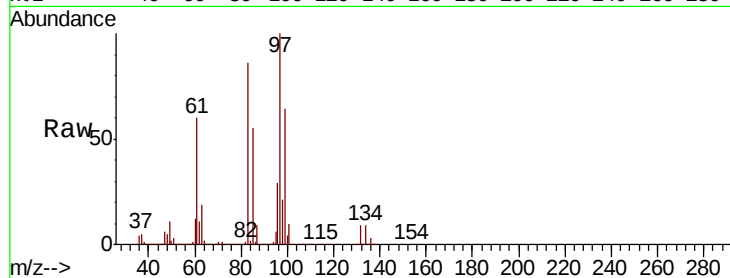




#45
1,1,2-Trichloroethane
Concen: 177.841 ug/L
RT: 7.86 min Scan# 2106
Delta R.T. 0.00 min
Lab File: VV015216.D
Acq: 27 Mar 2020 20:25

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	97	Resp:	956509
Ion	Ratio	Lower	Upper
97	100		
99	63.8	43.3	80.3
83	85.7	62.1	115.3
85	54.8	40.0	74.2

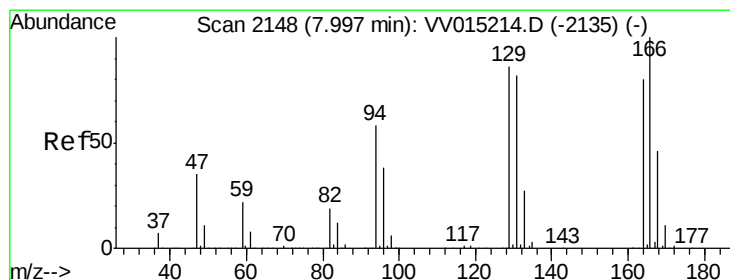
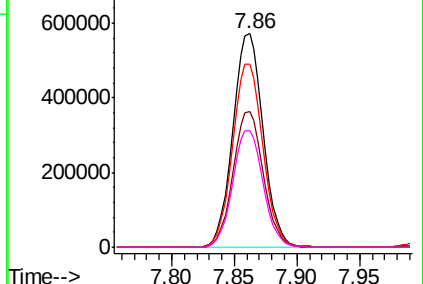
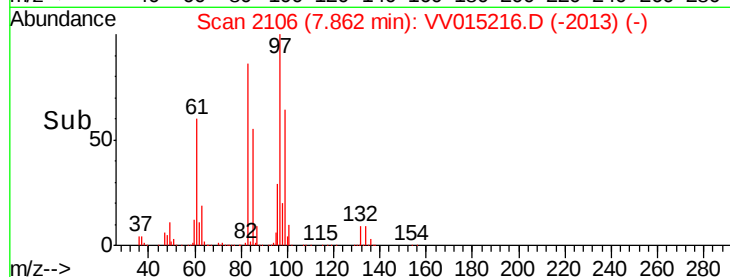


Abundance Ion 97.00 (96.70 to 97.70): VV015216.D (-2093) (-)

Ion 99.00 (98.70 to 99.70): VV015216.D (-2093) (-)

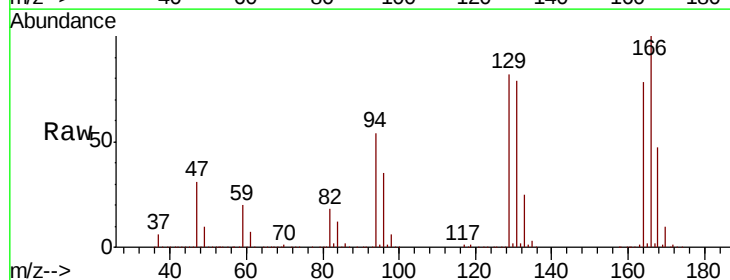
Ion 83.00 (82.70 to 83.70): VV015216.D (-2093) (-)

Ion 85.00 (84.70 to 85.70): VV015216.D (-2093) (-)



#46
Tetrachloroethene
Concen: 186.212 ug/L
RT: 8.00 min Scan# 2148
Delta R.T. 0.00 min
Lab File: VV015216.D
Acq: 27 Mar 2020 20:25

Tgt Ion:	164	Resp:	695444
Ion	Ratio	Lower	Upper
164	100		
129	105.2	75.3	139.9
131	100.5	71.8	133.4
166	127.9	87.9	163.3

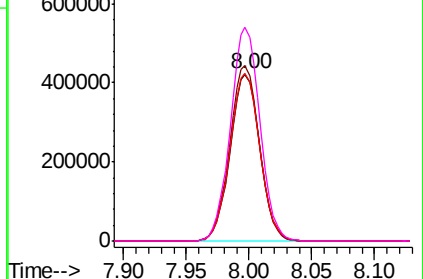
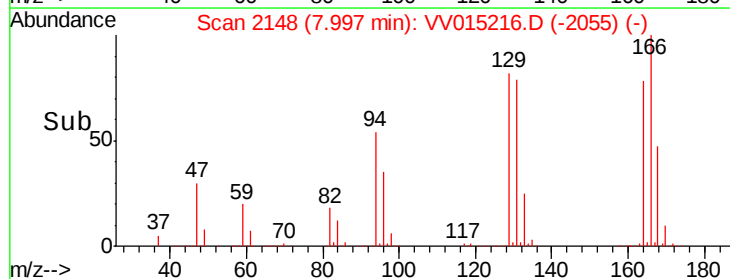


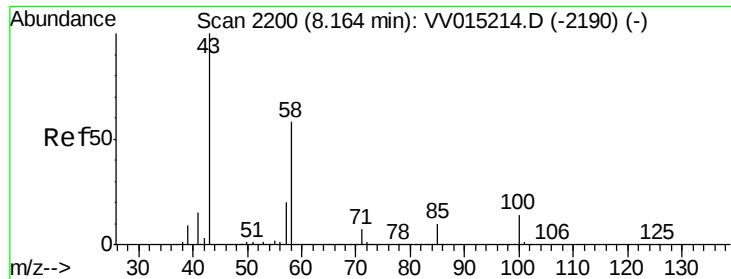
Abundance Ion 164.00 (163.70 to 164.70): VV015216.D (-2055) (-)

Ion 129.00 (128.70 to 129.70): VV015216.D (-2055) (-)

Ion 131.00 (130.70 to 131.70): VV015216.D (-2055) (-)

Ion 166.00 (165.70 to 166.70): VV015216.D (-2055) (-)

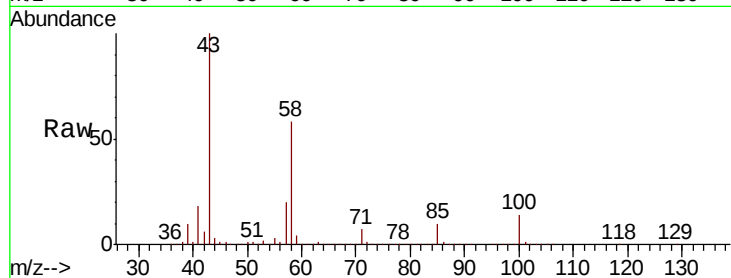




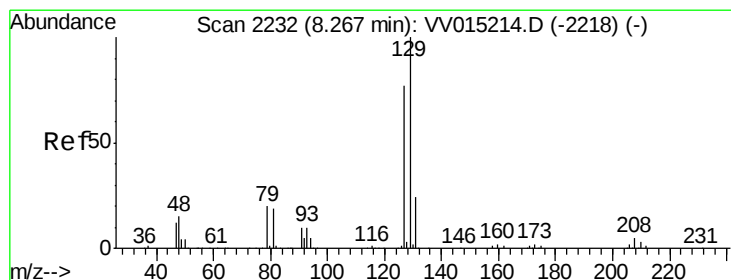
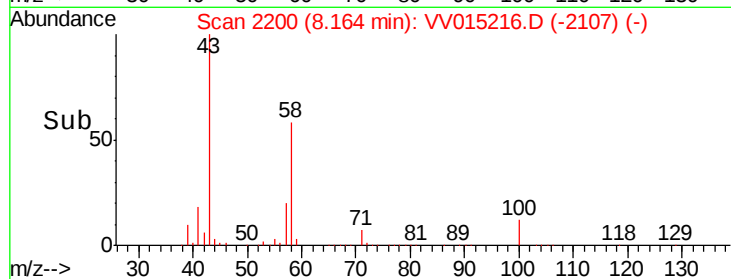
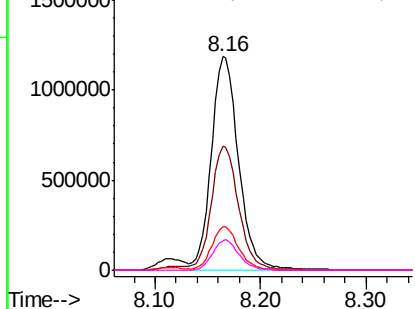
#48
2-Hexanone
Concen: 329.341 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.00 min
Lab File: VV015216.D
Acq: 27 Mar 2020 20:25

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 2119437
Ion Ratio Lower Upper
43 100
58 58.5 45.5 68.3
57 19.9 15.8 23.6
100 13.9 10.9 16.3

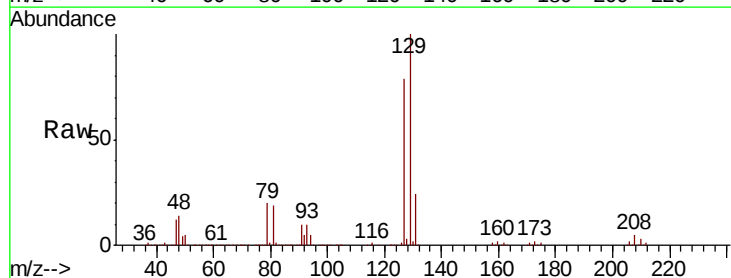


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

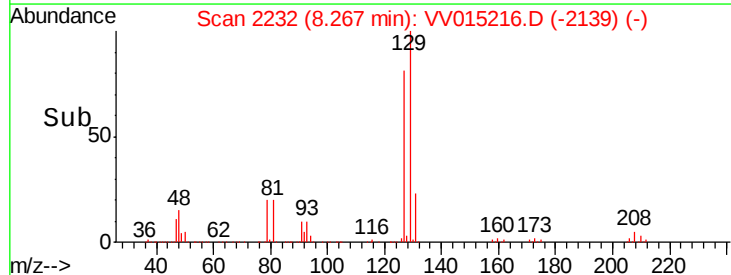
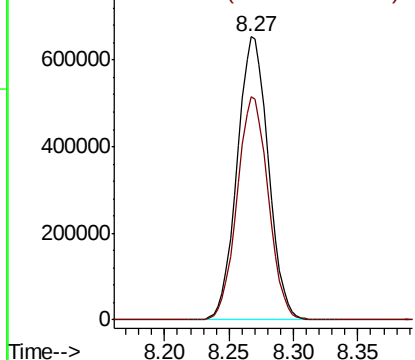


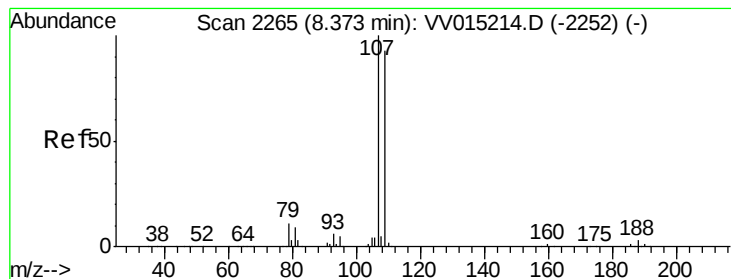
#49
Dibromochloromethane
Concen: 186.453 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV015216.D
Acq: 27 Mar 2020 20:25

Tgt Ion:129 Resp: 1100883
Ion Ratio Lower Upper
129 100
127 78.9 54.0 100.2



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#50

1,2-Dibromoethane

Concen: 181.564 ug/L

RT: 8.37 min Scan# 2265

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Instrument :

MSVOA_V

ClientSampleId :

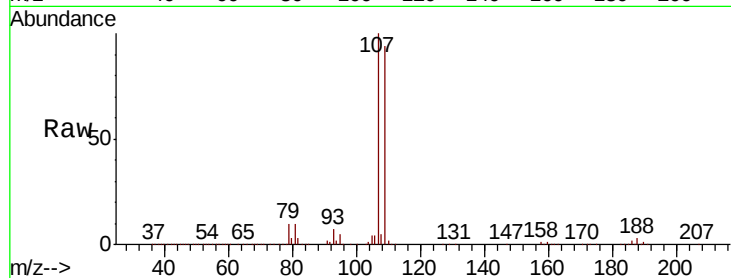
Tot Ion:107 Resp: 1057621

Ion Ratio Lower Upper

107 100

109 94.5 65.1 120.9

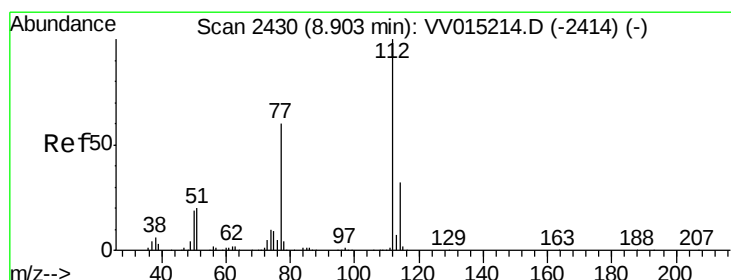
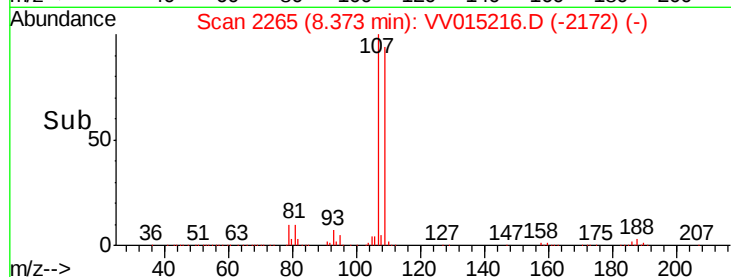
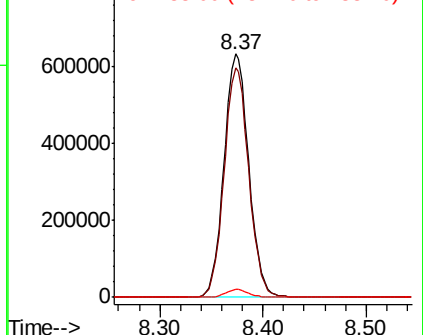
188 3.2 2.3 3.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 179.874 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

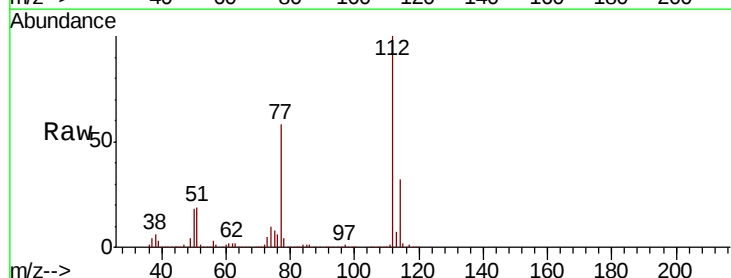
Tgt Ion:112 Resp: 2741374

Ion Ratio Lower Upper

112 100

114 31.9 22.3 41.5

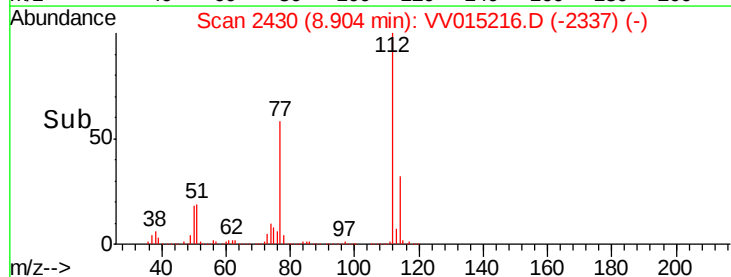
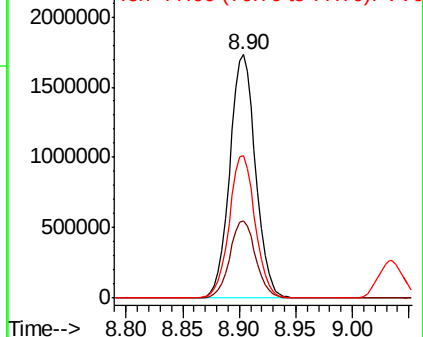
77 58.3 48.2 72.2

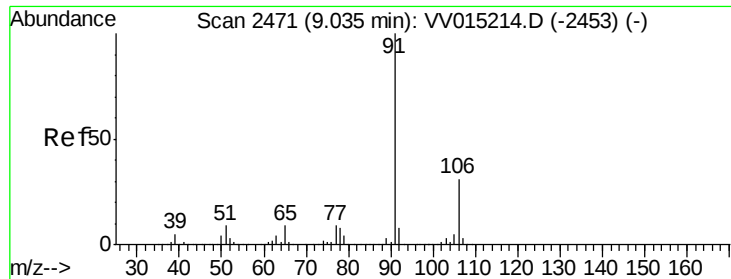


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0





#52

Ethylbenzene

Concen: 178.648 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

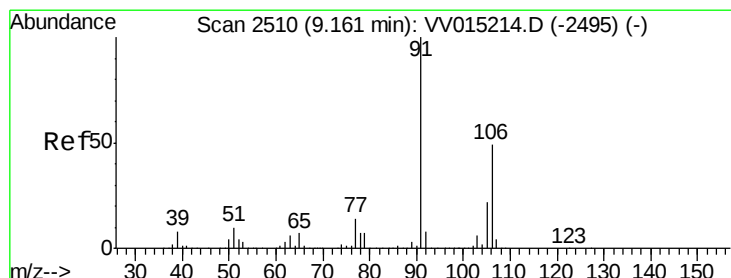
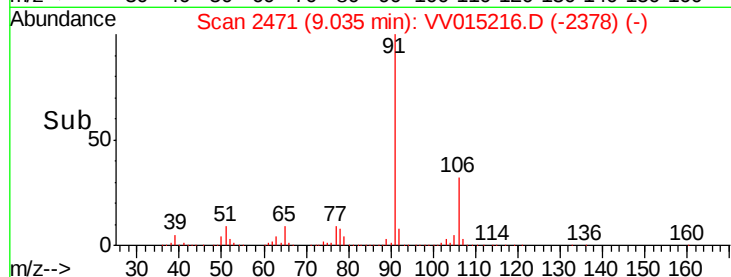
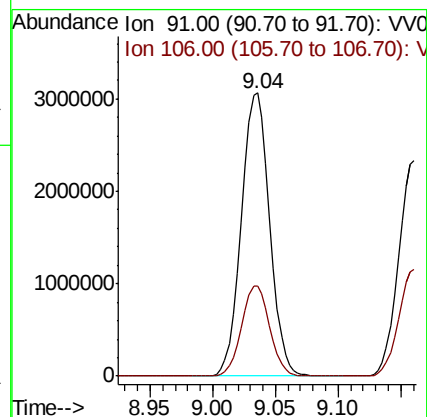
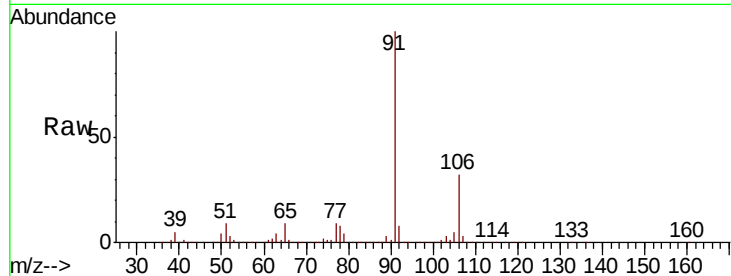
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 4800798

Ion Ratio Lower Upper

91 100

106 31.9 21.9 40.7



#53

m,p-Xylene

Concen: 182.213 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV015216.D

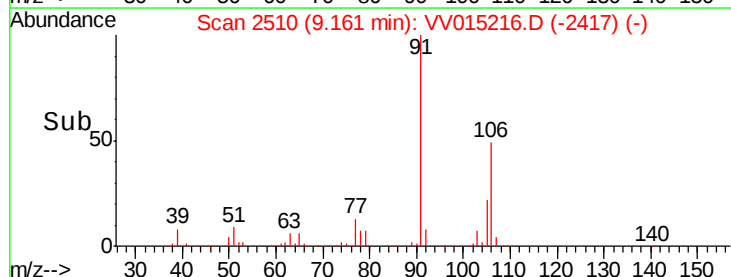
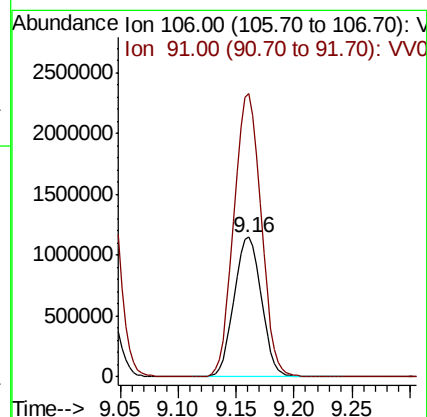
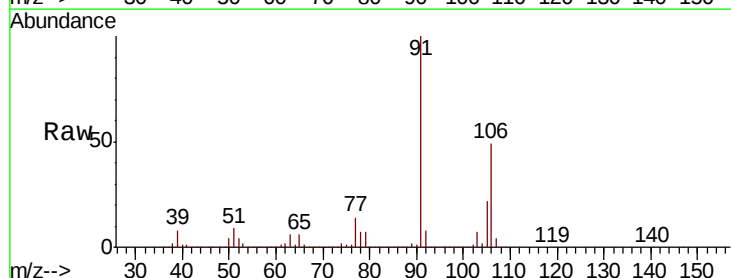
Acq: 27 Mar 2020 20:25

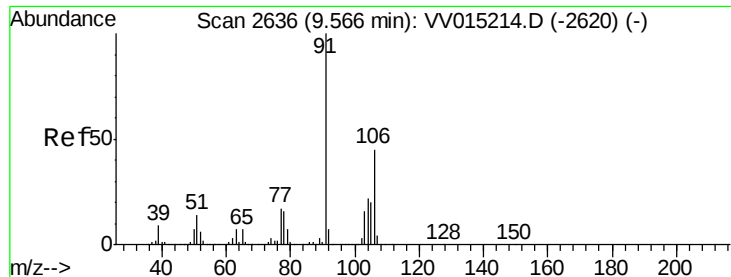
Tgt Ion: 106 Resp: 1865793

Ion Ratio Lower Upper

106 100

91 202.3 142.1 263.9





#54

o-xylene

Concen: 178.613 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

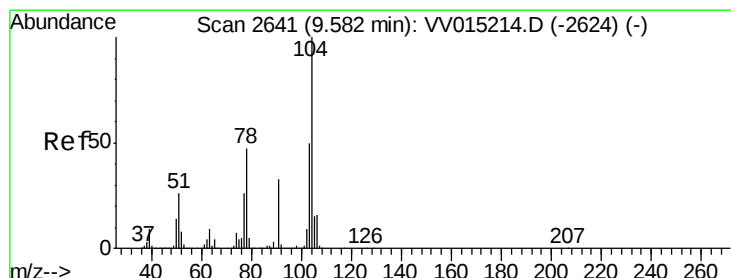
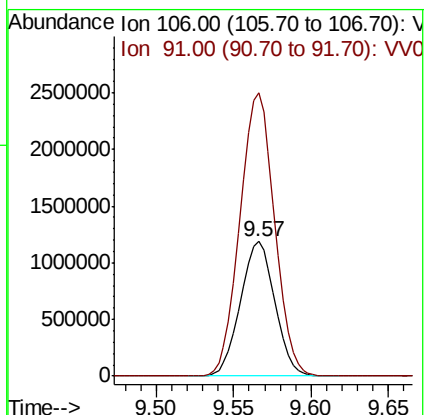
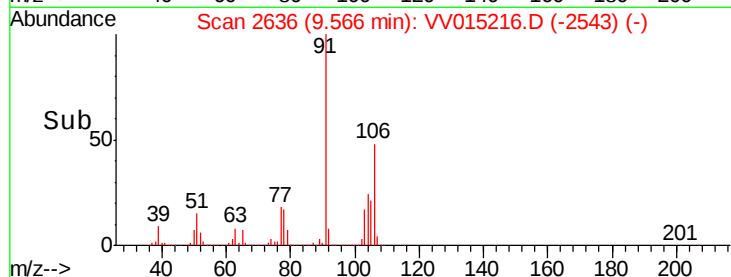
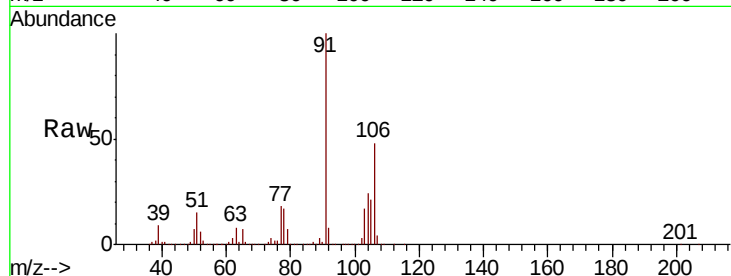
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 1839817

Ion Ratio Lower Upper

106 100

91 210.4 155.5 288.7



#55

Styrene

Concen: 181.722 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV015216.D

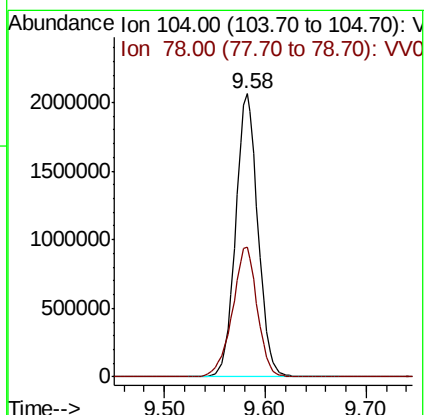
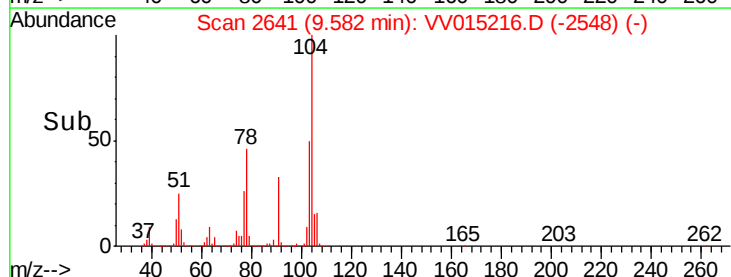
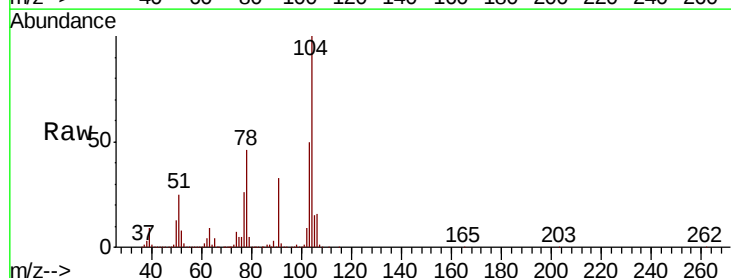
Acq: 27 Mar 2020 20:25

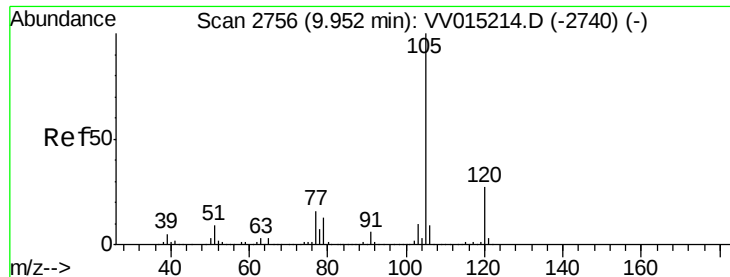
Tgt Ion:104 Resp: 3161890

Ion Ratio Lower Upper

104 100

78 45.7 33.0 61.2





#56

Isopropylbenzene

Concen: 180.698 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

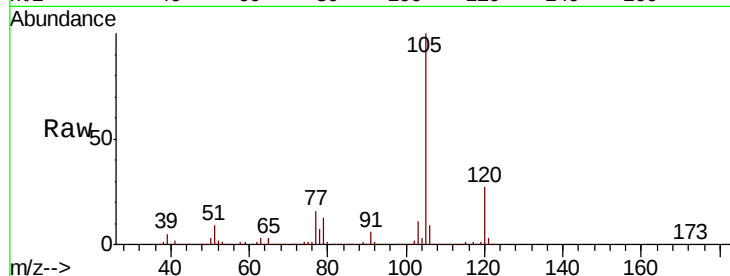
Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:105 Resp: 4776917

Ion	Ratio	Lower	Upper
105	100		
120	26.9	21.4	32.0
77	15.8	13.0	19.4

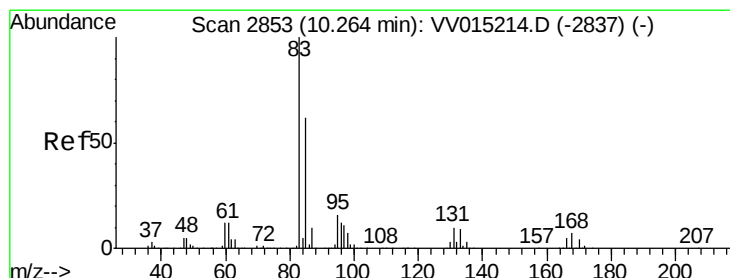
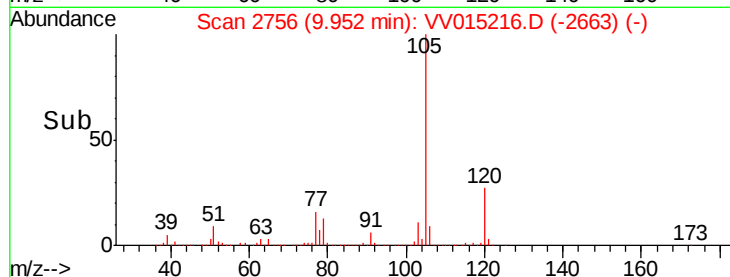
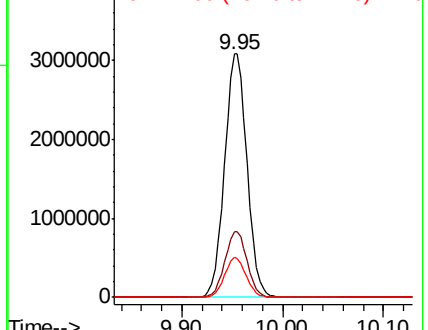


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 174.370 ug/L

RT: 10.26 min Scan# 2853

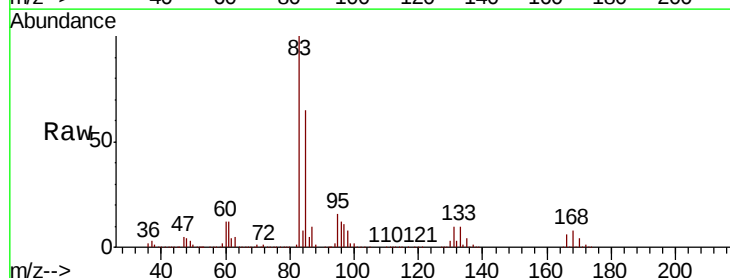
Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Tgt Ion: 83 Resp: 1571588

Ion	Ratio	Lower	Upper
83	100		
85	64.6	43.6	81.0
131	9.7	7.8	11.6

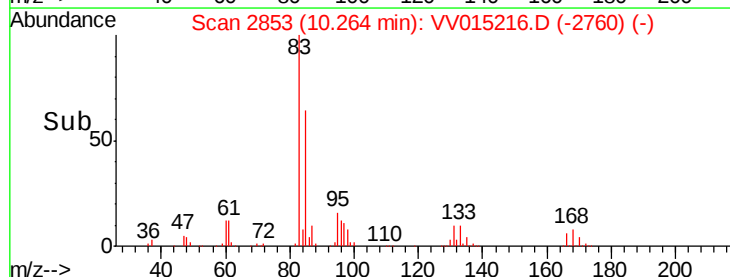
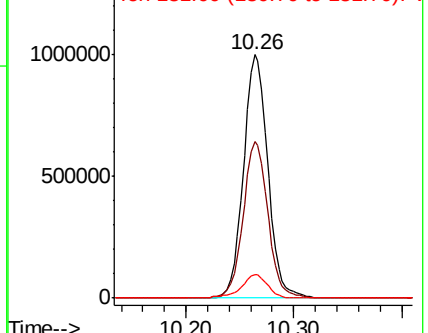


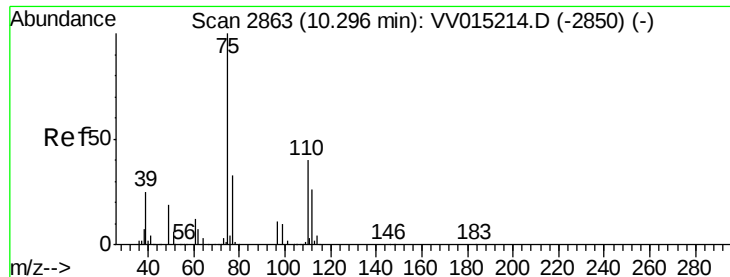
Abundance

Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 172.235 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Instrument :

MSVOA_V

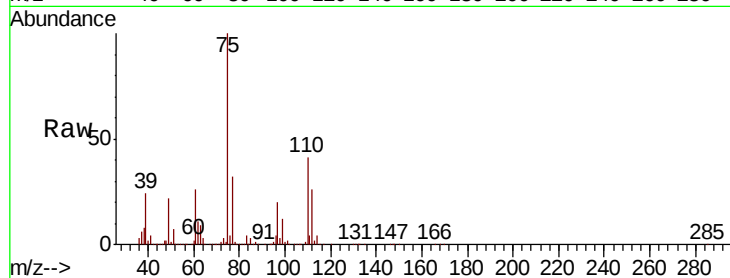
ClientSampleId :

Tot Ion: 75 Resp: 1245604

Ion Ratio Lower Upper

75 100

77 32.2 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VV015216.D (-2850) (-)

Ion 77.00 (76.70 to 77.70): VV015216.D (-2850) (-)

10.30

800000

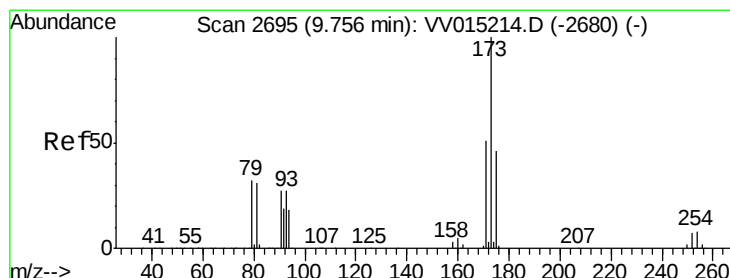
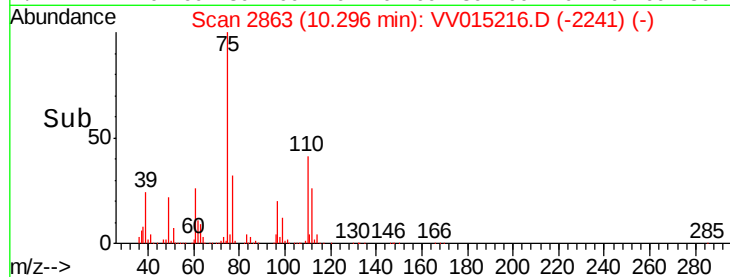
600000

400000

200000

0

Time--> 10.20 10.25 10.30 10.35



#61

Bromoform

Concen: 188.499 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

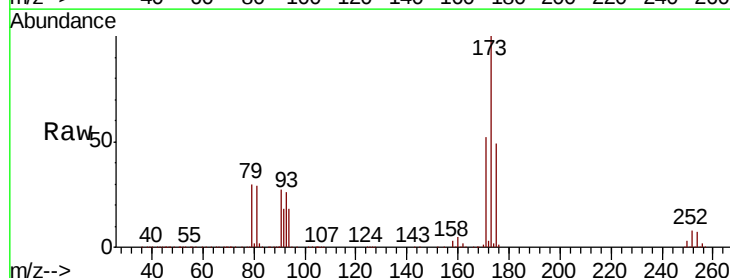
Tgt Ion: 173 Resp: 744249

Ion Ratio Lower Upper

173 100

175 48.8 37.6 56.4

254 7.6 5.5 8.3



Abundance Ion 173.00 (172.70 to 173.70): VV015216.D (-2680) (-)

Ion 175.00 (174.70 to 175.70): VV015216.D (-2680) (-)

Ion 254.00 (253.70 to 254.70): VV015216.D (-2680) (-)

9.75

600000

500000

400000

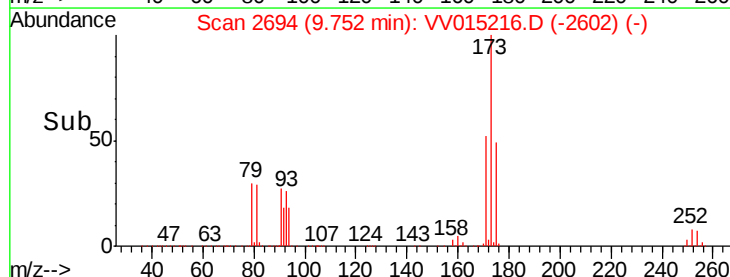
300000

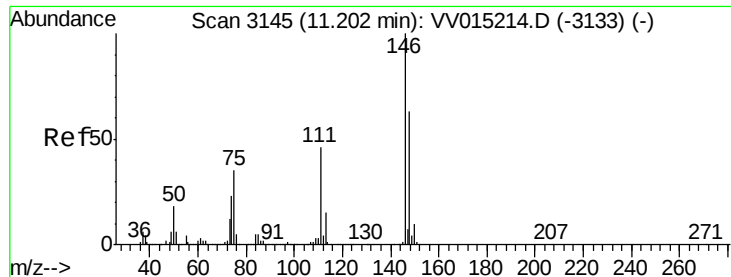
200000

100000

0

Time--> 9.70 9.75 9.80 9.85





#62

1,3-Dichlorobenzene

Concen: 182.583 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

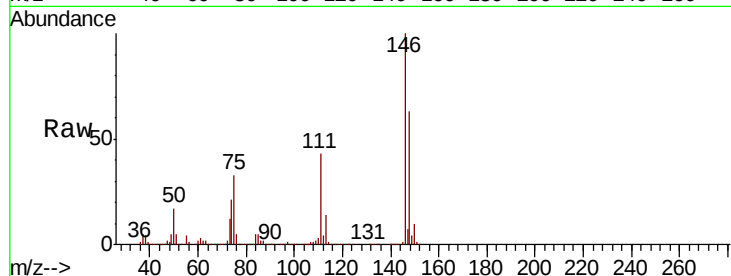
Instrument :

MSVOA_V

ClientSampleId :

Tot Ion:146 Resp: 2095630

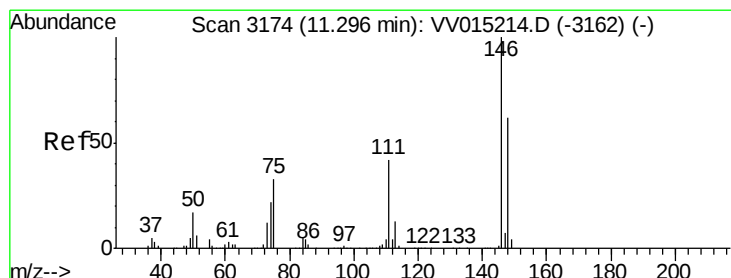
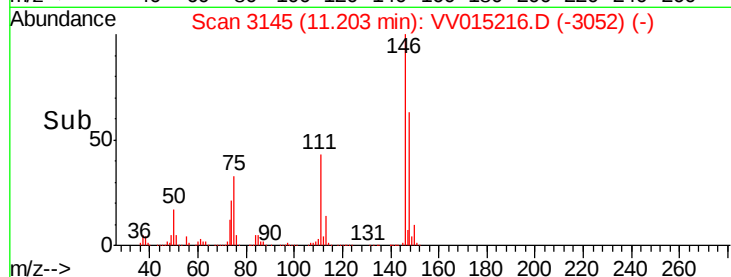
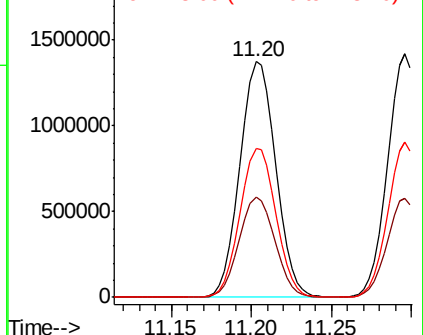
Ion	Ratio	Lower	Upper
146	100		
111	42.7	32.1	59.7
148	63.4	44.0	81.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 181.845 ug/L

RT: 11.30 min Scan# 3174

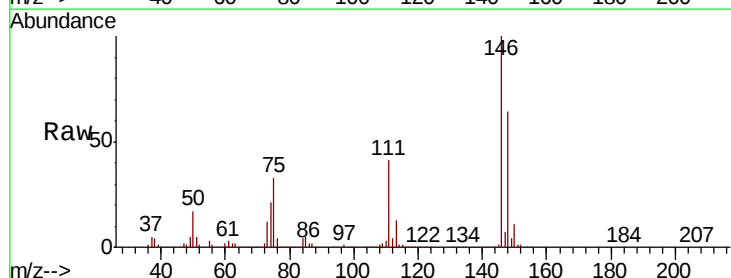
Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Tgt Ion:146 Resp: 2111218

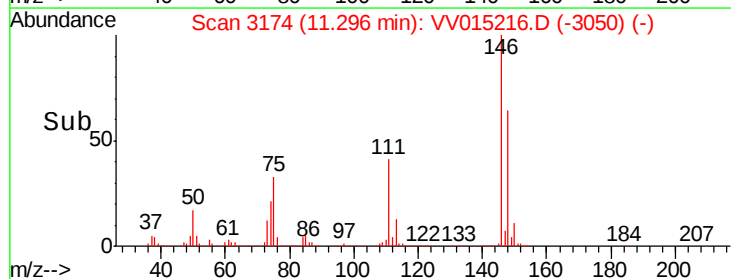
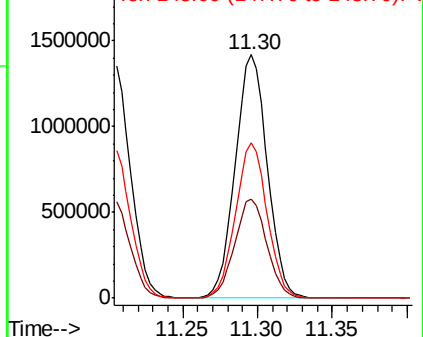
Ion	Ratio	Lower	Upper
146	100		
111	40.9	29.4	54.6
148	63.5	43.6	81.0

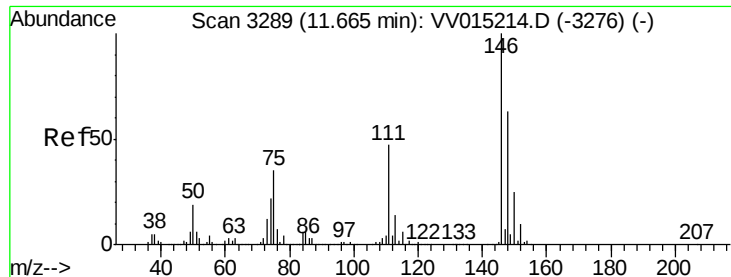


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 180.541 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Instrument :

MSVOA_V

ClientSampleId :

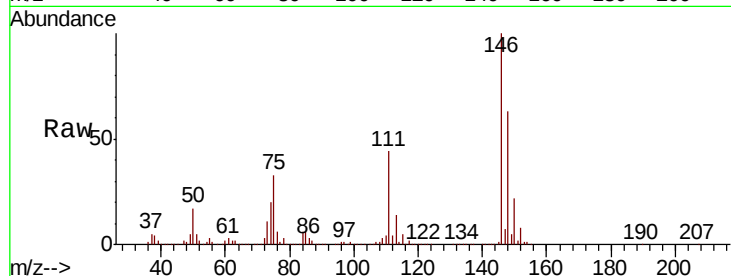
Tot Ion:146 Resp: 2099702

Ion Ratio Lower Upper

146 100

111 43.8 37.6 56.4

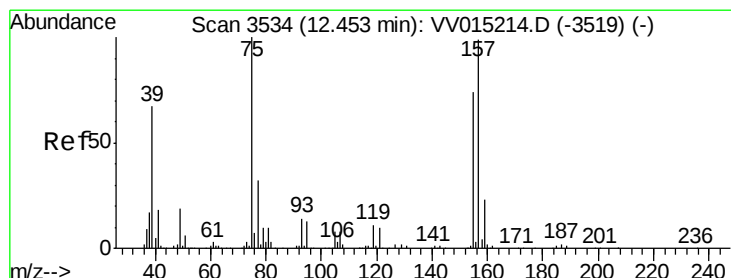
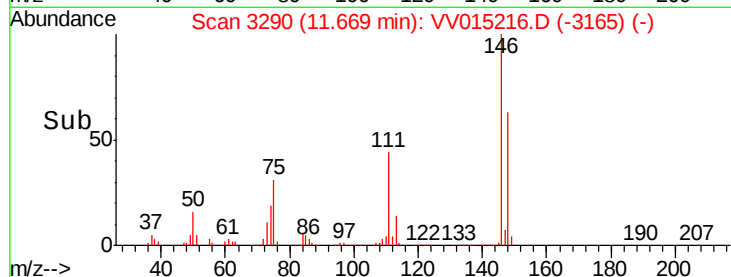
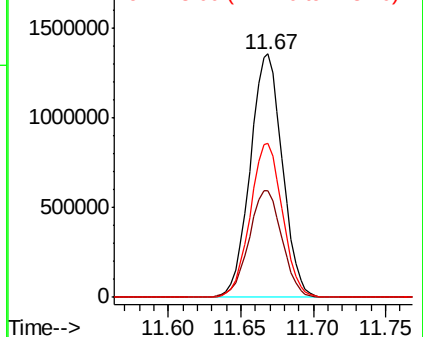
148 63.4 50.6 76.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 162.608 ug/L

RT: 12.45 min Scan# 3534

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

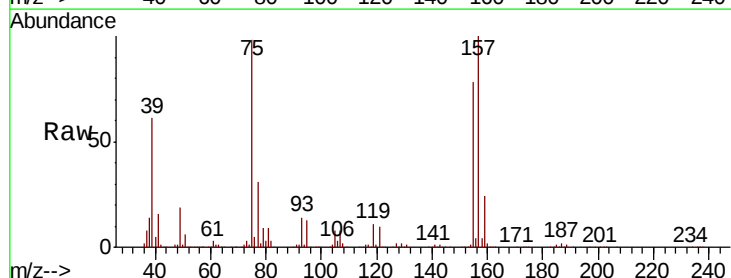
Tgt Ion: 75 Resp: 418244

Ion Ratio Lower Upper

75 100

155 79.8 59.1 88.7

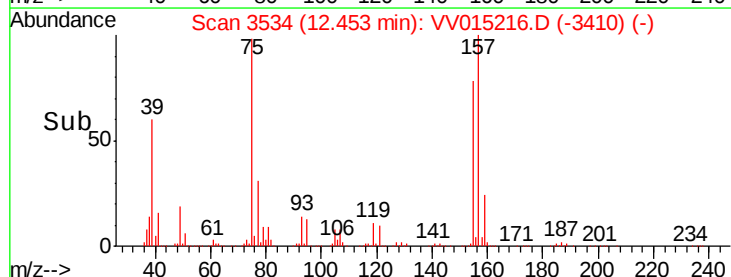
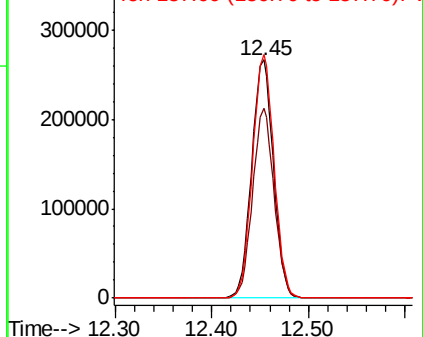
157 102.2 78.9 118.3

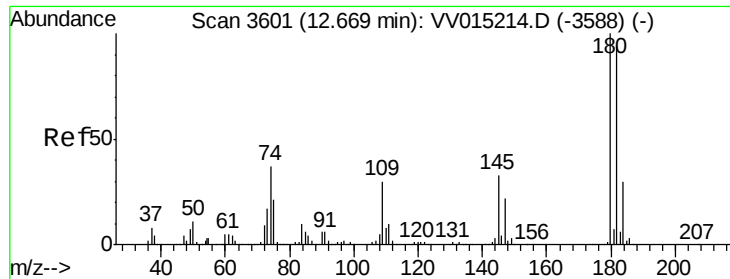


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

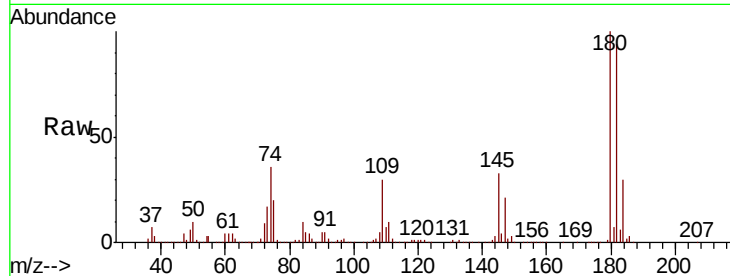




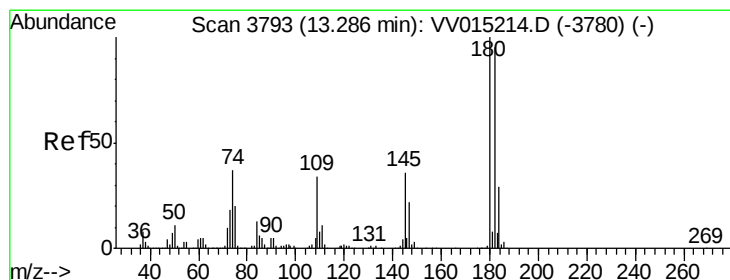
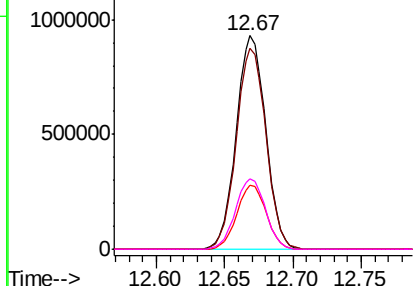
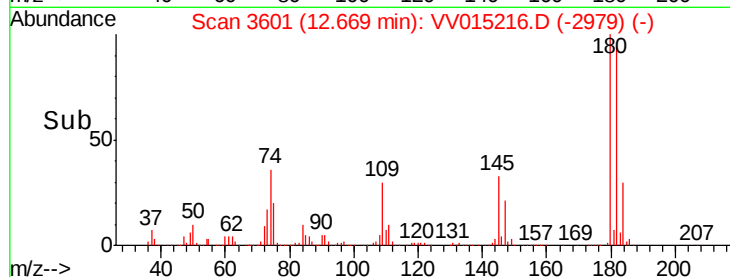
#67
 1,3,5-Trichlorobenzene
 Concen: 190.267 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV015216.D
 Acq: 27 Mar 2020 20:25

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion:180 Resp: 1397556
 Ion Ratio Lower Upper
 180 100
 182 94.7 75.4 113.0
 184 29.9 23.8 35.8
 145 33.5 26.9 40.3

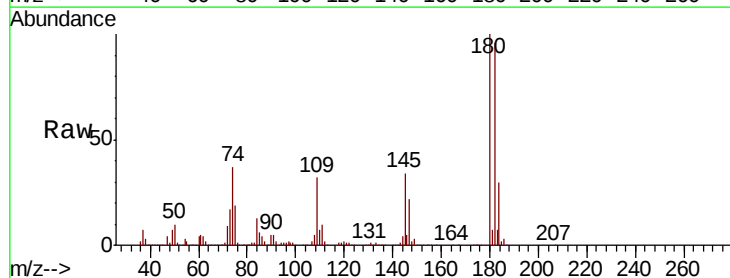


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

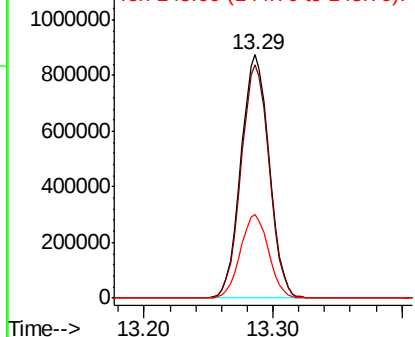
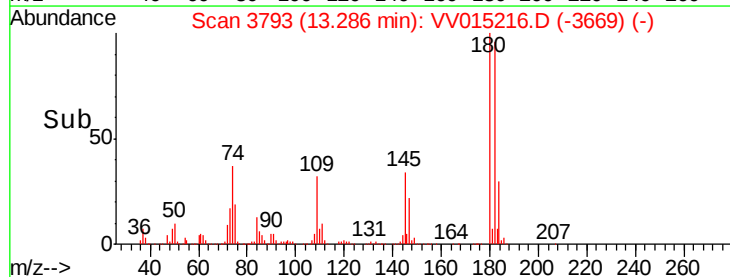


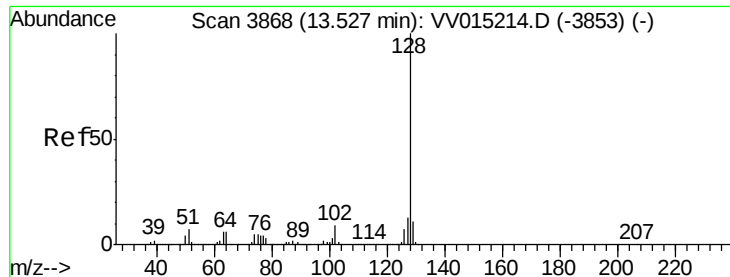
#68
 1,2,4-trichlorobenzene
 Concen: 191.155 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV015216.D
 Acq: 27 Mar 2020 20:25

Tgt Ion:180 Resp: 1336014
 Ion Ratio Lower Upper
 180 100
 182 95.5 75.5 113.3
 145 34.2 28.5 42.7



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 181.873 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

Instrument :

MSVOA_V

ClientSampleId :

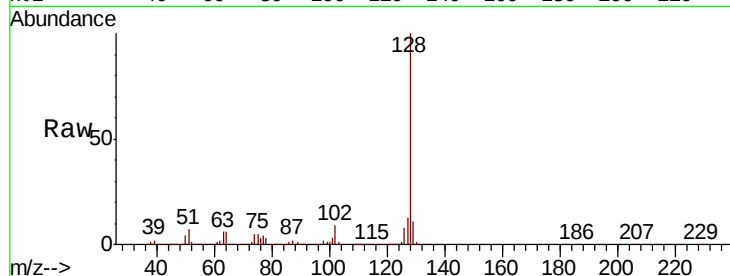
Tot Ion:128 Resp: 5077264

Ion Ratio Lower Upper

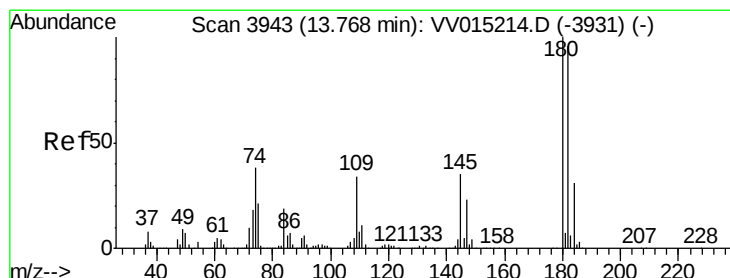
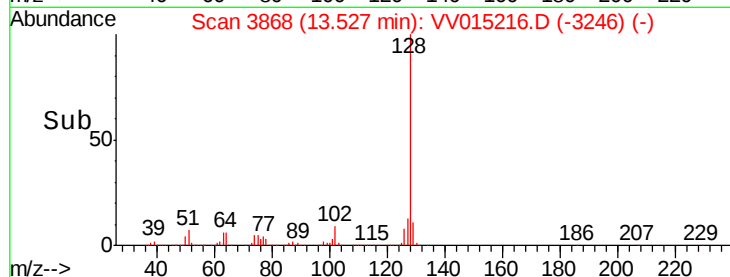
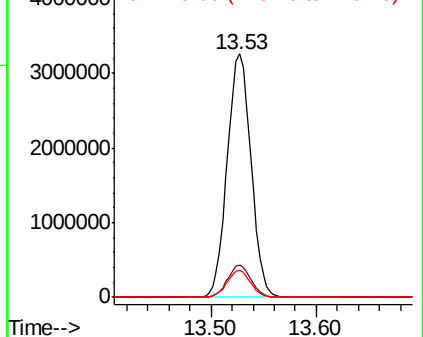
128 100

127 13.0 10.6 15.8

129 11.0 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 192.328 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VV015216.D

Acq: 27 Mar 2020 20:25

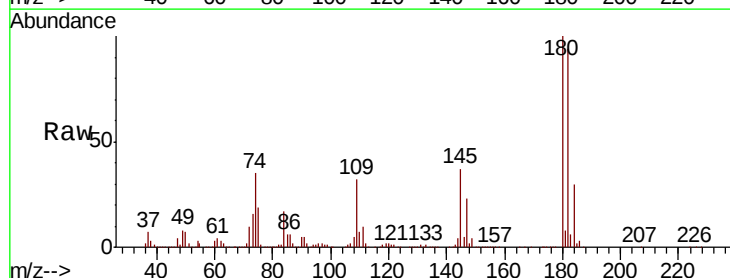
Tgt Ion:180 Resp: 1343982

Ion Ratio Lower Upper

180 100

182 94.6 75.9 113.9

145 36.9 29.0 43.6



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

