

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100220\
 Data File : VV018629.D
 Acq On : 02 Oct 2020 16:41
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05067

Quant Time: Oct 03 00:53:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Oct 03 00:50:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	326566	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	320715	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	177697	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	88453	46.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.36%
7) Chloroethane-d5	1.58	69	83087	52.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	104.94%
11) 1,1-Dichloroethene-d2	2.12	63	205224	52.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.18%
21) 2-Butanone-d5	3.91	46	123414	86.39	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	86.39%
24) Chloroform-d	4.38	84	187299	45.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.44%
26) 1,2-Dichloroethane-d4	5.05	65	122162	46.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.92%
32) Benzene-d6	5.07	84	354287	43.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.22%
36) 1,2-Dichloropropane-d6	6.09	67	105835	43.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.24%
41) Toluene-d8	7.34	98	333230	43.60	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.20%
43) trans-1,3-Dichloropropene-	7.64	79	58453	44.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.16%
47) 2-Hexanone-d5	8.11	63	79730	85.52	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	85.52%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	139541	42.88	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	85.76%
64) 1,2-Dichlorobenzene-d4	11.65	152	148772	43.53	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.06%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	91238	41.089	ug/L 98
3) Chloromethane	1.25	50	94352	39.712	ug/L 100
5) Vinyl chloride	1.32	62	102917	41.199	ug/L 99
6) Bromomethane	1.53	94	80993	47.638	ug/L 98
8) Chloroethane	1.60	64	76714	49.835	ug/L 98
9) Trichlorofluoromethane	1.77	101	190959	50.297	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	105794	49.786	ug/L 99
12) 1,1-Dichloroethene	2.13	96	100155	49.130	ug/L 96
13) Acetone	2.20	43	128084	103.774	ug/L 99
14) Carbon disulfide	2.31	76	264325	40.026	ug/L 99
15) Methyl Acetate	2.45	43	99167	41.704	ug/L 99
16) Methylene chloride	2.52	84	105317	43.044	ug/L 96
17) trans-1,2-Dichloroethene	2.78	96	99075	42.473	ug/L 98
18) Methyl tert-butyl Ether	2.78	73	317168	44.626	ug/L 99
19) 1,1-Dichloroethane	3.21	63	178270	43.647	ug/L 99
20) cis-1,2-Dichloroethene	3.94	96	106269	42.866	ug/L 96
22) 2-Butanone	3.99	43	140007	89.794	ug/L 100

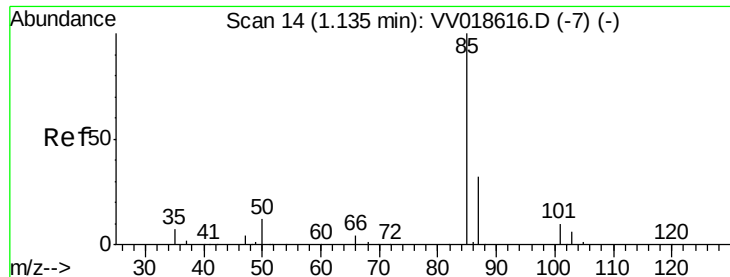
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100220\
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Quant Time: Oct 03 00:53:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Oct 03 00:50:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.27	128	58690	43.052	ug/L	97
25) Chloroform	4.40	83	192770	44.698	ug/L	98
27) 1,2-Dichloroethane	5.15	62	156165	46.457	ug/L	99
29) Cyclohexane	4.70	56	148350	40.557	ug/L	98
30) 1,1,1-Trichloroethane	4.64	97	178931	44.940	ug/L	99
31) Carbon tetrachloride	4.85	117	158273	44.292	ug/L	100
33) Benzene	5.13	78	401341	42.596	ug/L	100
34) Trichloroethene	5.94	95	117897	43.100	ug/L	98
35) Methylcyclohexane	6.15	83	146044	39.578	ug/L	99
37) 1,2-Dichloropropane	6.20	63	101106	41.825	ug/L	99
38) Bromodichloromethane	6.53	83	140718	43.466	ug/L	99
39) cis-1,3-Dichloropropene	7.05	75	167488	44.160	ug/L	99
40) 4-Methyl-2-pentanone	7.24	43	268683	86.136	ug/L	99
42) Toluene	7.41	91	444334	43.593	ug/L	99
44) trans-1,3-Dichloropropene	7.67	75	169851	45.589	ug/L	96
45) 1,1,2-Trichloroethane	7.86	97	104454	43.649	ug/L	97
46) Tetrachloroethene	8.00	164	97014	43.716	ug/L	99
48) 2-Hexanone	8.16	43	217222	89.252	ug/L	99
49) Dibromochloromethane	8.27	129	121554	44.410	ug/L	99
50) 1,2-Dibromoethane	8.37	107	111752	43.922	ug/L	98
51) Chlorobenzene	8.90	112	296650	43.021	ug/L	98
52) Ethylbenzene	9.03	91	499421	43.874	ug/L	99
53) m,p-Xylene	9.16	106	189732	43.130	ug/L	100
54) o-xylene	9.56	106	184564	44.314	ug/L	99
55) Styrene	9.58	104	327149	45.111	ug/L	97
56) Isopropylbenzene	9.95	105	491131	43.969	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.26	83	141858	42.056	ug/L	98
59) 1,2,3-Trichloropropane	10.30	75	128442	43.682	ug/L	100
61) Bromoform	9.75	173	88544	43.379	ug/L	99
62) 1,3-Dichlorobenzene	11.20	146	249741	43.427	ug/L	98
63) 1,4-Dichlorobenzene	11.29	146	257525	43.487	ug/L	100
65) 1,2-Dichlorobenzene	11.67	146	250351	44.004	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.45	75	32559	41.922	ug/L	97
67) 1,3,5-Trichlorobenzene	12.67	180	165061	41.436	ug/L	99
68) 1,2,4-trichlorobenzene	13.28	180	156034	42.094	ug/L	99
69) Naphthalene	13.52	128	475206	44.784	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	155959	41.911	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 41.089 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

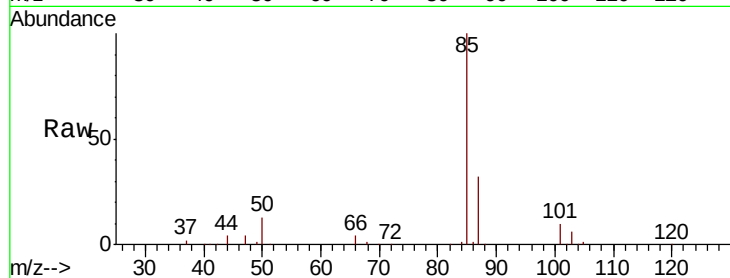
VSTD05067

Tot Ion: 85 Resp: 91238

Ion Ratio Lower Upper

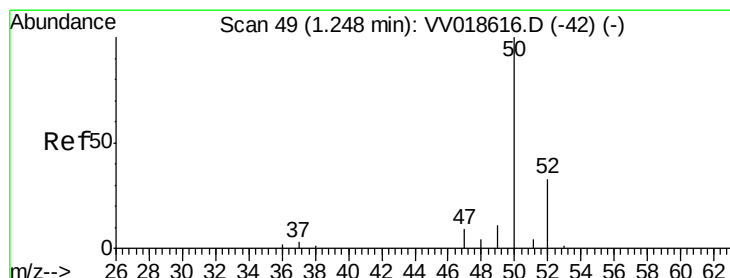
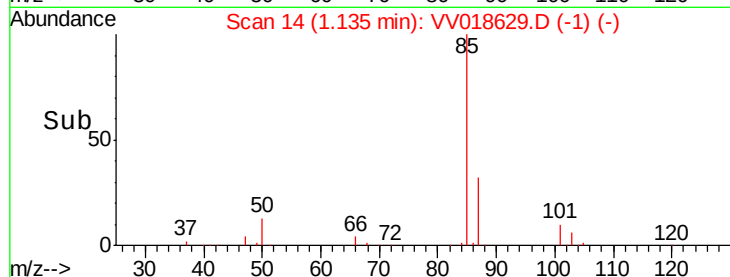
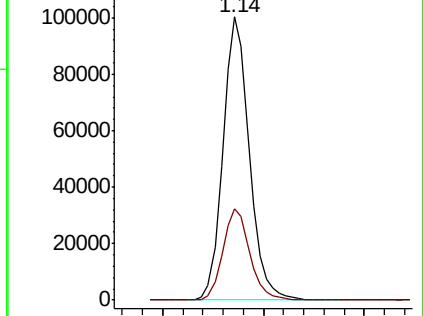
85 100

87 33.0 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 39.712 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV018629.D

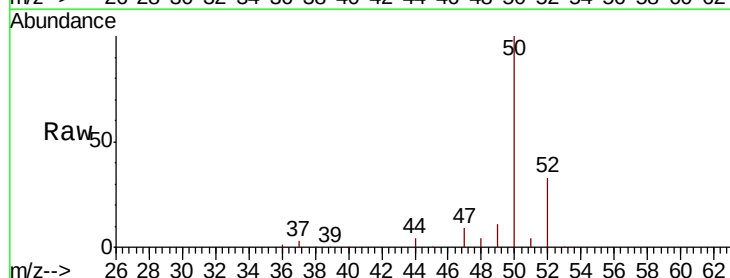
Acq: 02 Oct 2020 16:41

Tgt Ion: 50 Resp: 94352

Ion Ratio Lower Upper

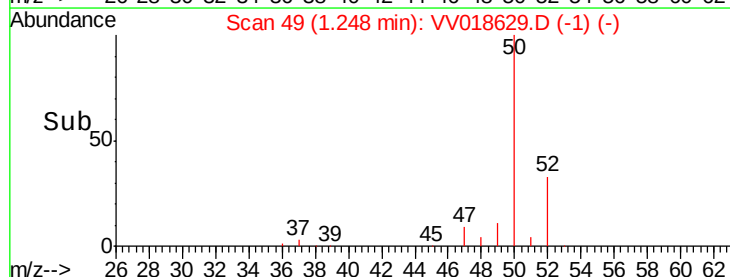
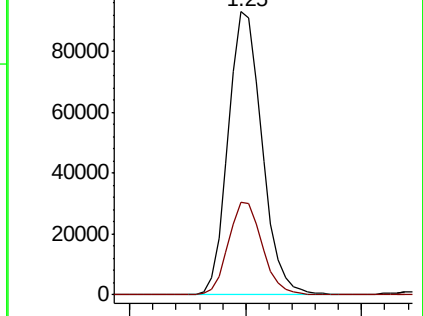
50 100

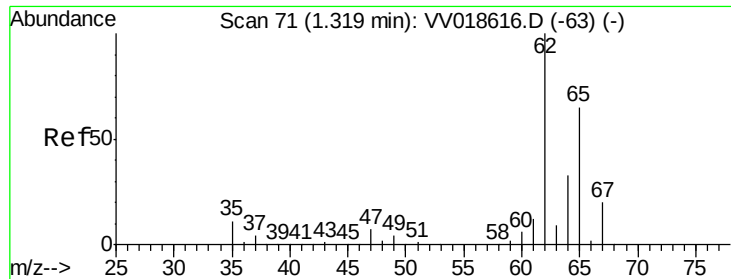
52 32.5 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 41.199 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

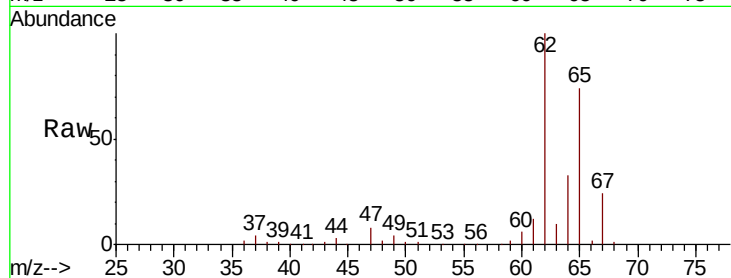
VSTD05067

Tot Ion: 62 Resp: 102917

Ion Ratio Lower Upper

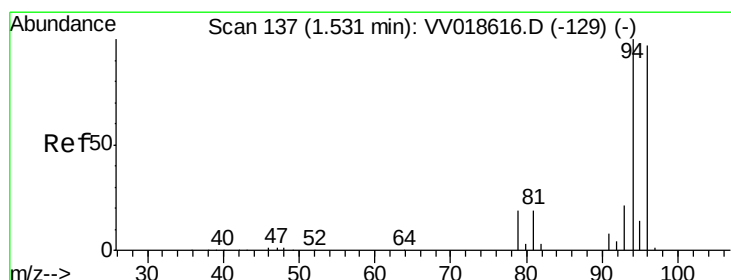
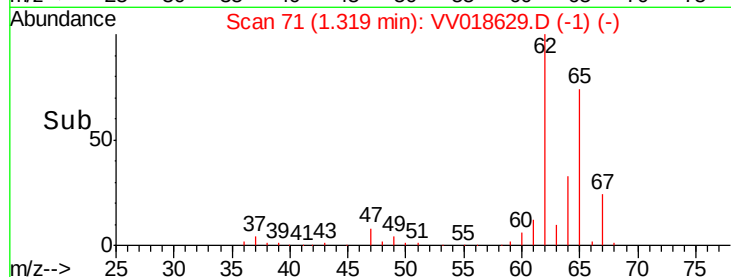
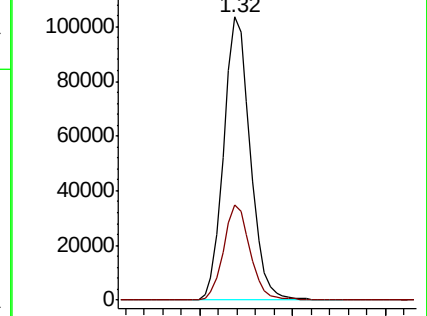
62 100

64 33.5 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 47.638 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV018629.D

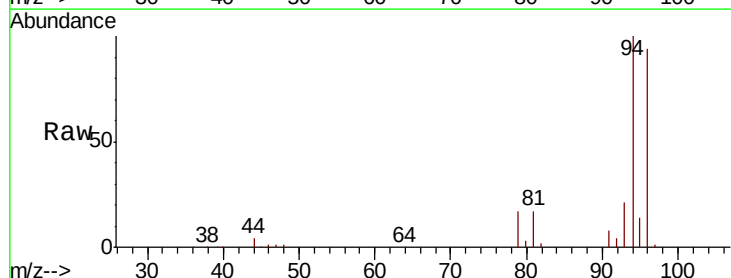
Acq: 02 Oct 2020 16:41

Tgt Ion: 94 Resp: 80993

Ion Ratio Lower Upper

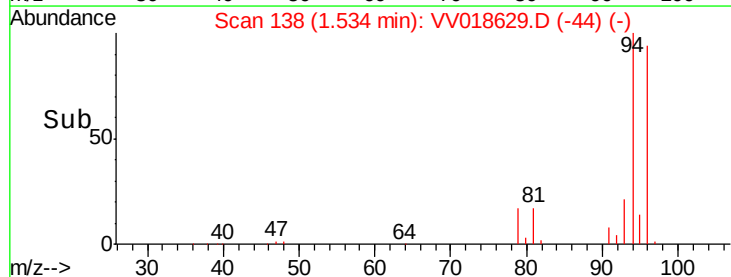
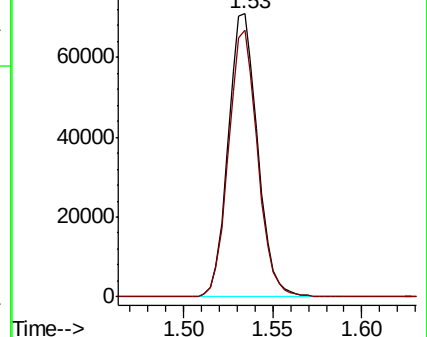
94 100

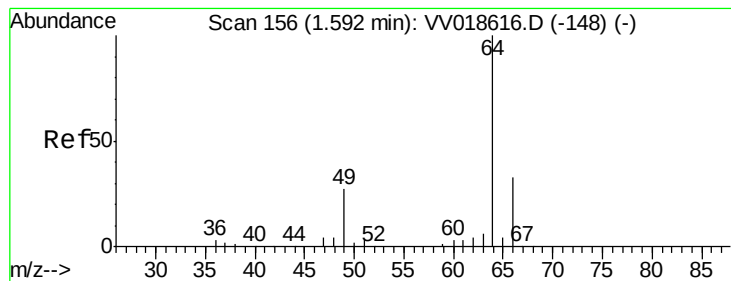
96 94.2 67.5 125.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 49.835 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

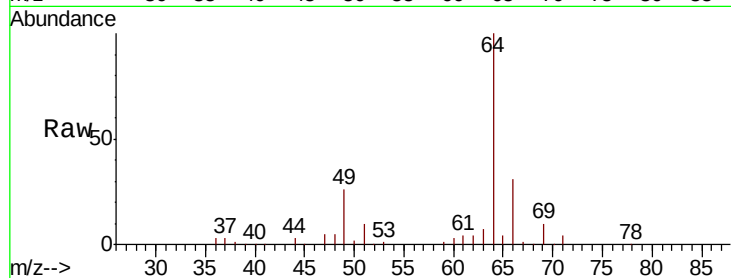
VSTD05067

Tot Ion: 64 Resp: 76714

Ion Ratio Lower Upper

64 100

66 31.3 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VV018616.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV018629.D (-32) (-)

1.60

60000

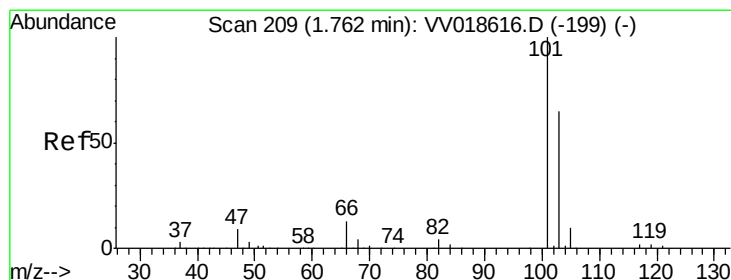
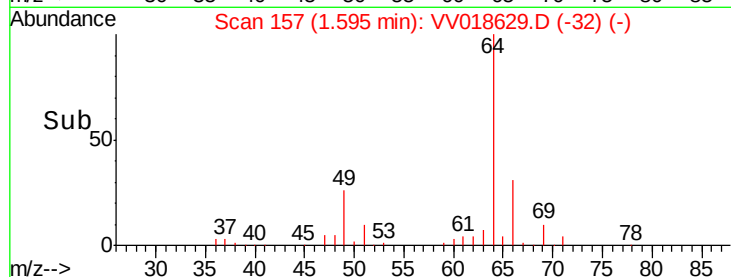
40000

20000

0

Time-->

1.55 1.60 1.65



#9

Trichlorofluoromethane

Concen: 50.297 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV018629.D

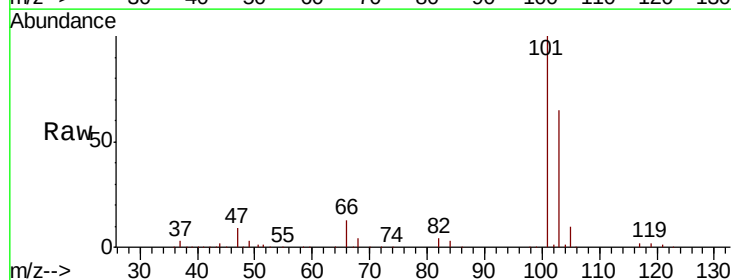
Acq: 02 Oct 2020 16:41

Tgt Ion: 101 Resp: 190959

Ion Ratio Lower Upper

101 100

103 64.5 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VV018616.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV018629.D (-85) (-)

1.77

150000

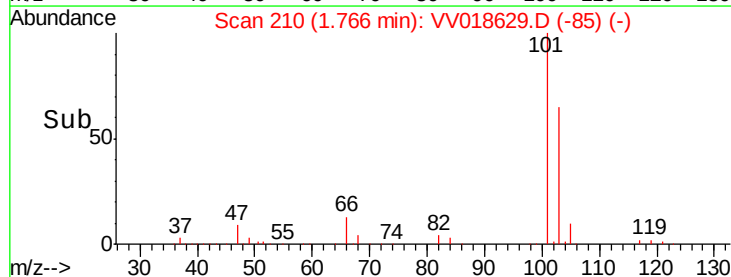
100000

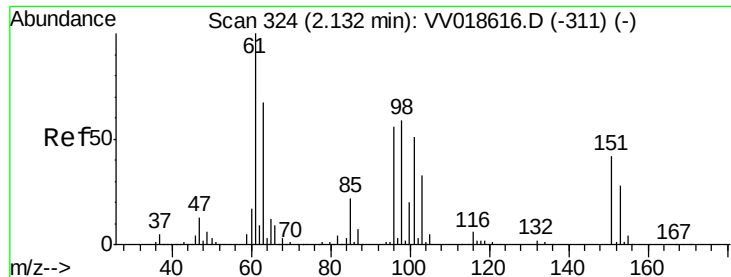
50000

0

Time-->

1.70 1.75 1.80 1.85





#10

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

Concen: 49.786 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD05067

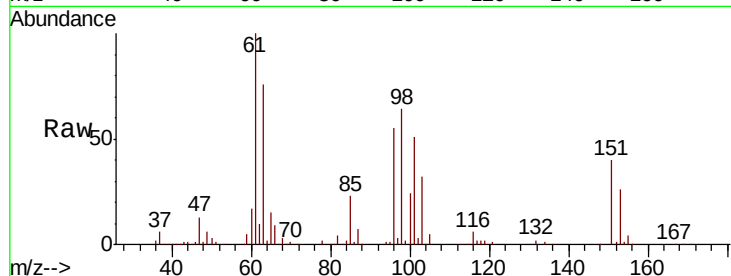
Tot Ion:101 Resp: 105794

Ion Ratio Lower Upper

101 100

85 43.6 34.6 52.0

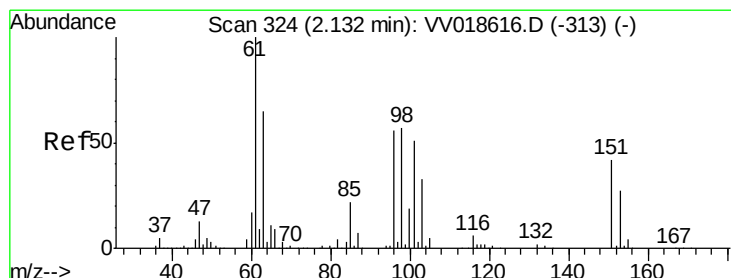
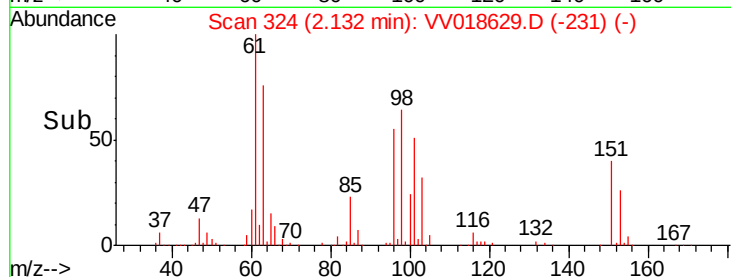
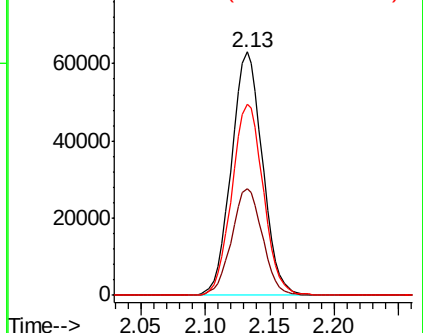
151 79.6 64.3 96.5



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: 49.130 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

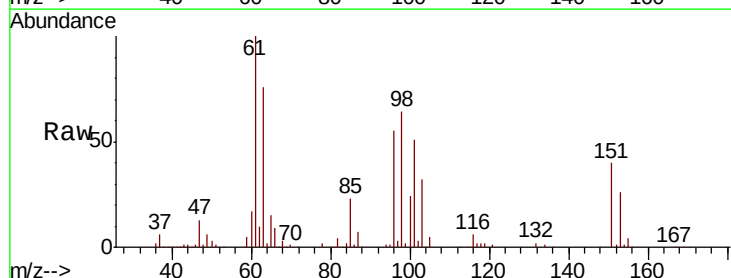
Tgt Ion: 96 Resp: 100155

Ion Ratio Lower Upper

96 100

61 180.4 122.8 228.1

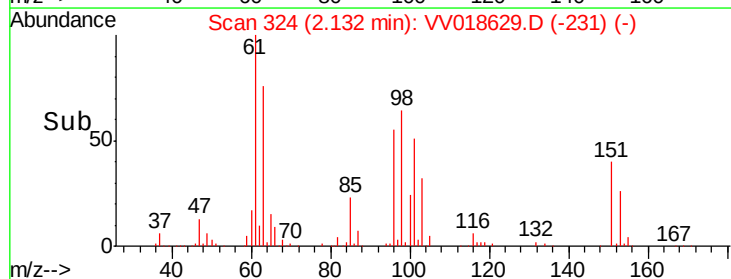
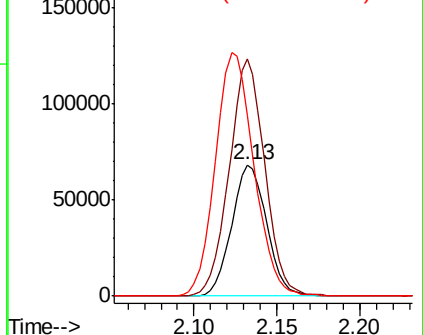
63 138.0 91.9 170.7

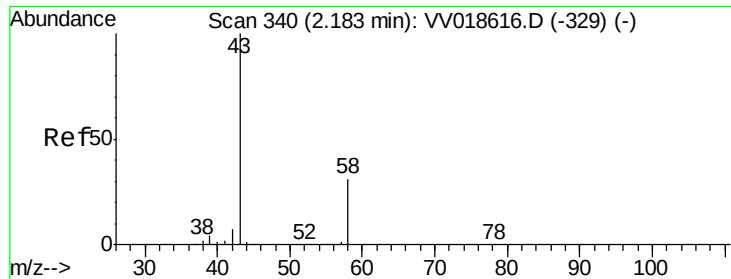


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 103.774 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

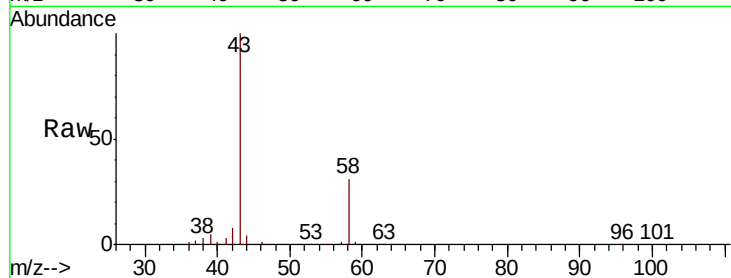
VSTD05067

Tot Ion: 43 Resp: 128084

Ion Ratio Lower Upper

43 100

58 31.7 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VV018616.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV018616.D (-329) (-)

2.20

60000

50000

40000

30000

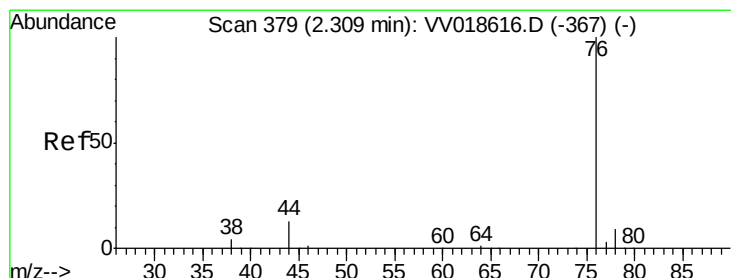
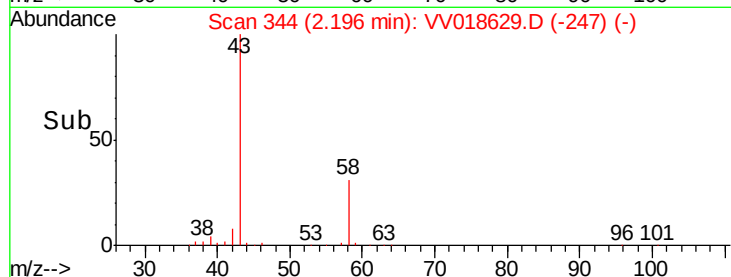
20000

10000

0

Time-->

2.10 2.20 2.30



#14

Carbon disulfide

Concen: 40.026 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV018629.D

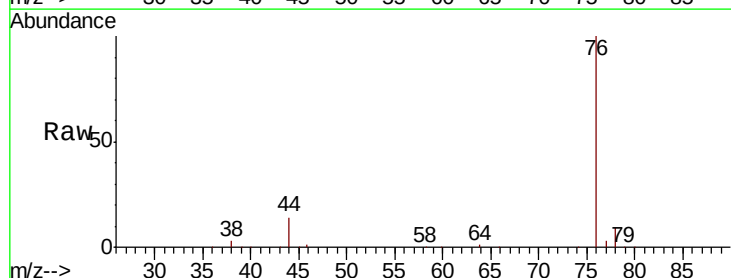
Acq: 02 Oct 2020 16:41

Tgt Ion: 76 Resp: 264325

Ion Ratio Lower Upper

76 100

78 9.2 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV018616.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VV018616.D (-367) (-)

2.31

200000

150000

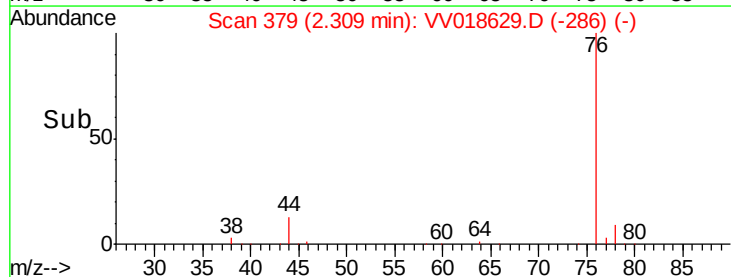
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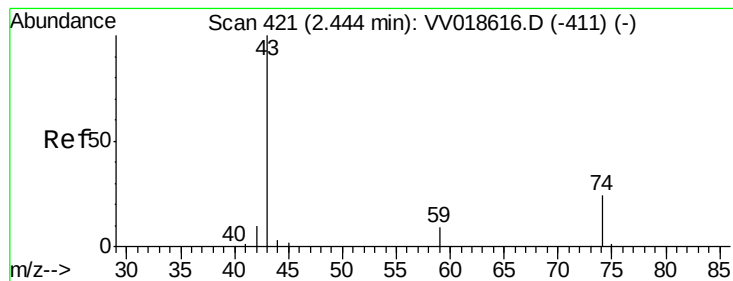
50000

0

Time-->

2.25 2.30 2.35 2.40





#15

Methvl Acetate

Concen: 41.704 ug/L

RT: 2.45 min Scan# 422

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

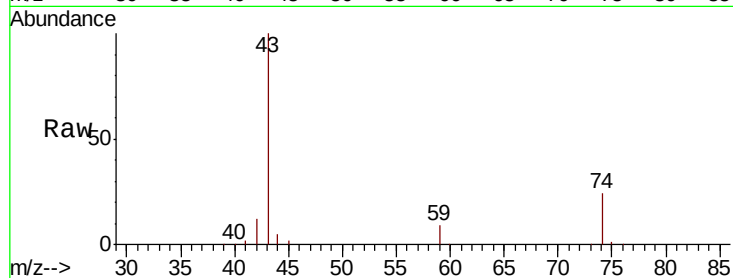
VSTD05067

Tot Ion: 43 Resp: 99167

Ion Ratio Lower Upper

43 100

74 24.6 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

2.45

60000

50000

40000

30000

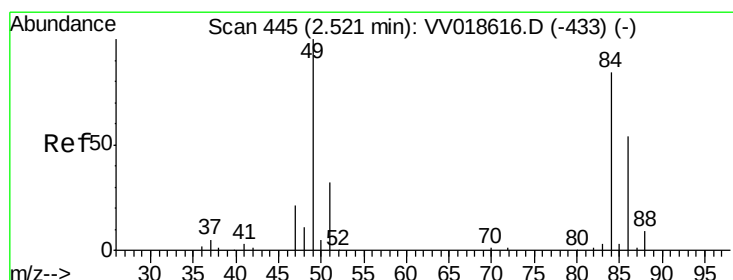
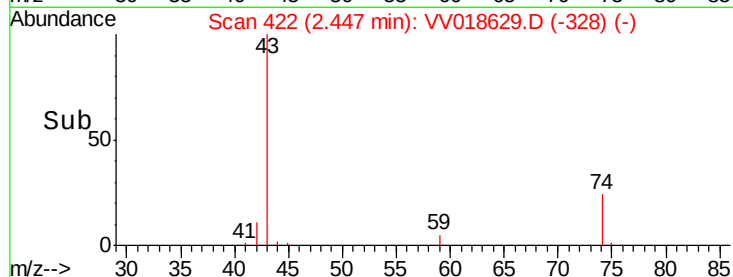
20000

10000

0

Time-->

2.35 2.40 2.45 2.50 2.55



#16

Methylene chloride

Concen: 43.044 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

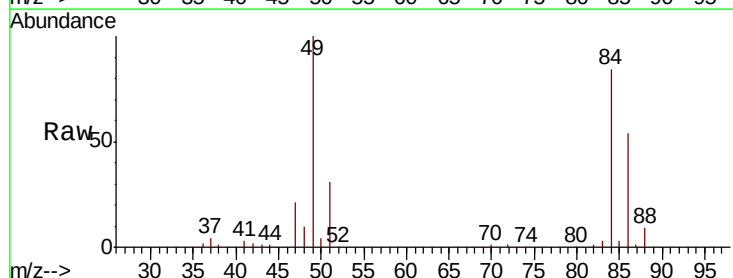
Tgt Ion: 84 Resp: 105317

Ion Ratio Lower Upper

84 100

86 63.4 46.2 85.8

49 118.4 86.6 160.8



Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

100000

80000

60000

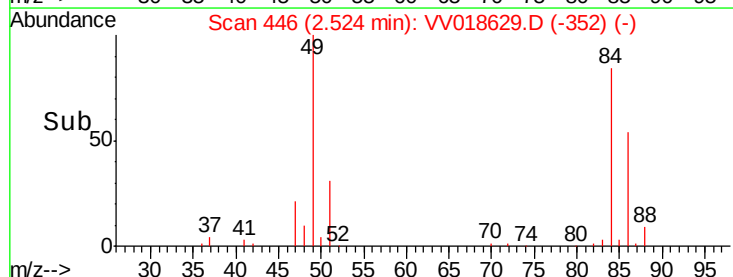
40000

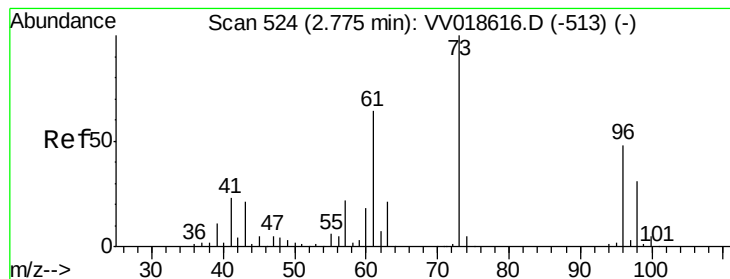
20000

0

Time-->

2.45 2.50 2.55 2.60





#17

trans-1,2-Dichloroethene

Concen: 42.473 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD05067

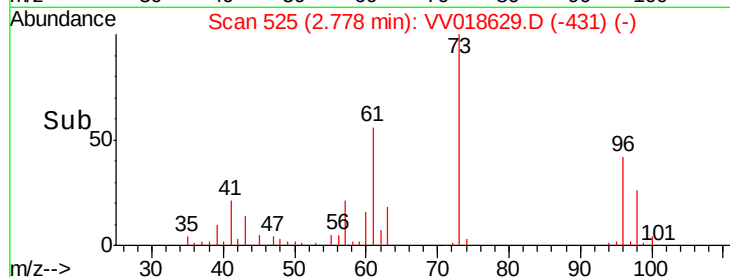
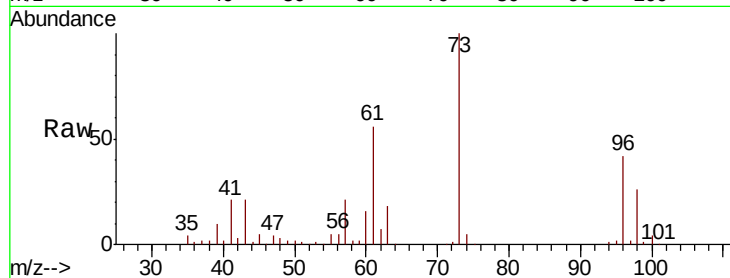
Tot Ion: 96 Resp: 99075

Ion Ratio Lower Upper

96 100

61 133.7 95.0 176.4

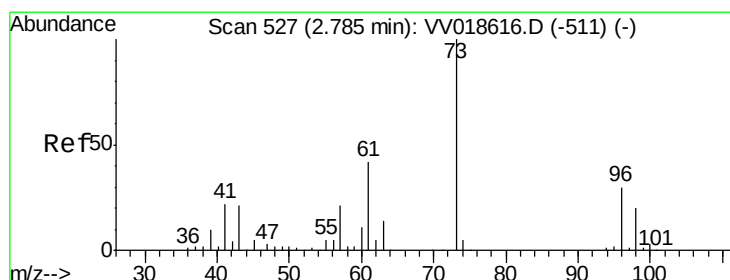
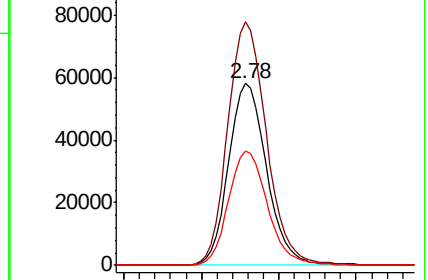
98 62.8 44.6 82.8



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: 44.626 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

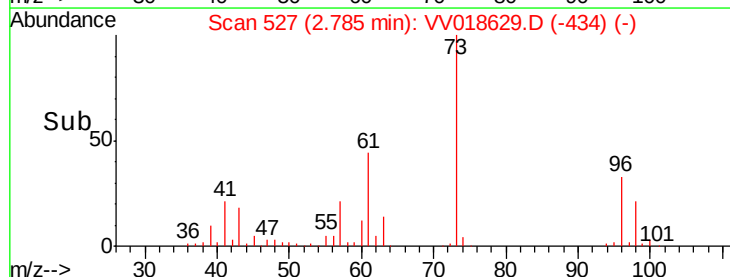
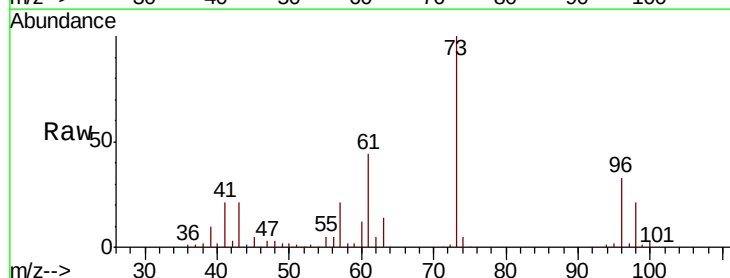
Tgt Ion: 73 Resp: 317168

Ion Ratio Lower Upper

73 100

43 20.8 15.9 23.9

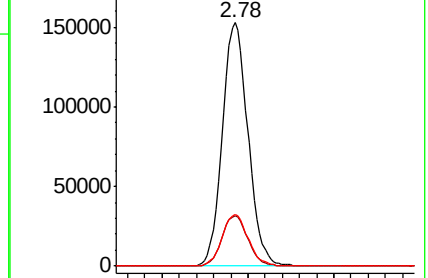
57 21.6 17.5 26.3

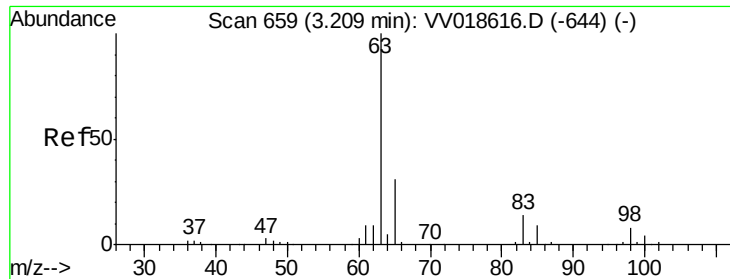


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

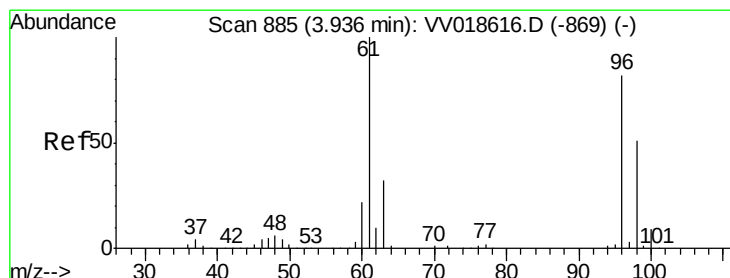
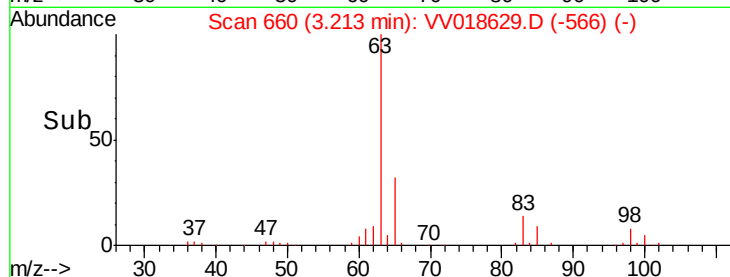
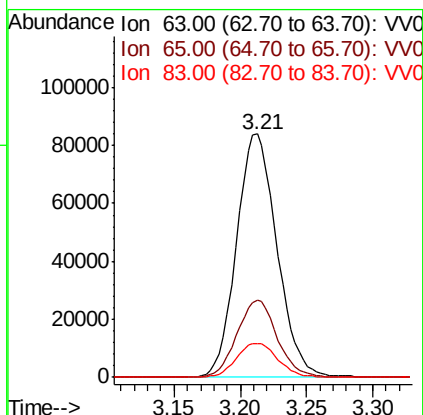
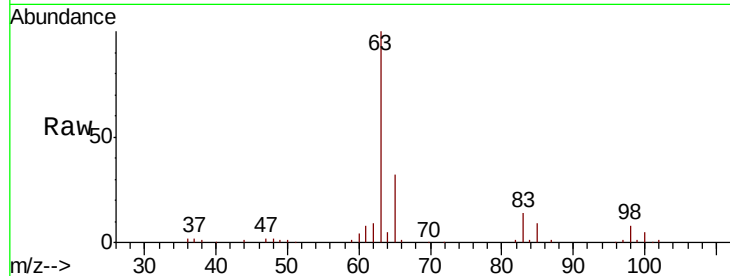




#19
 1,1-Dichloroethane
 Concen: 43.647 ug/L
 RT: 3.21 min Scan# 660
 Delta R.T. 0.00 min
 Lab File: VV018629.D
 Acq: 02 Oct 2020 16:41

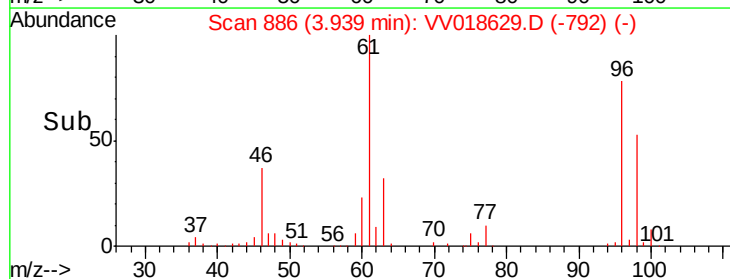
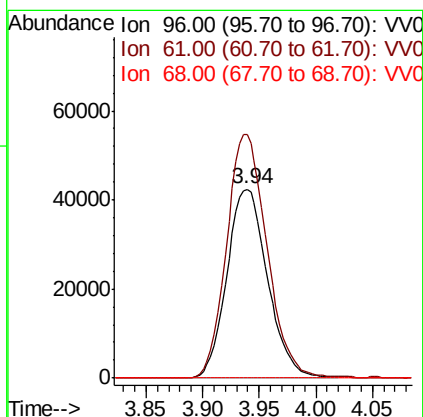
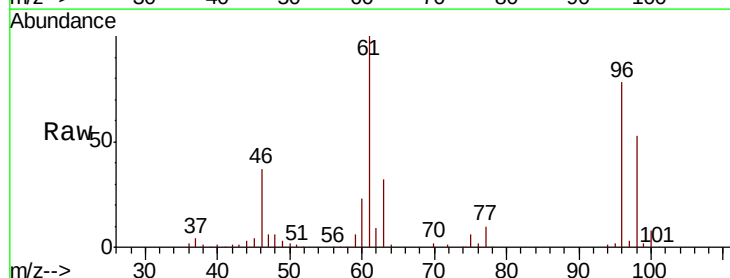
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD05067

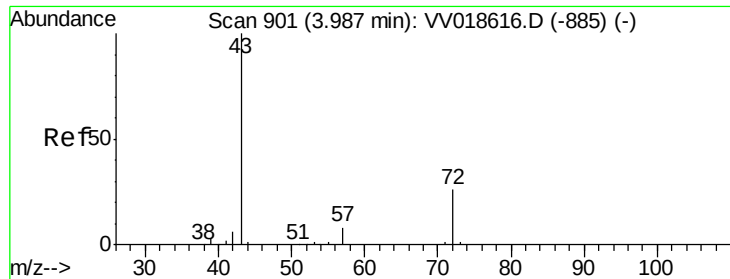
Tot Ion: 63 Resp: 178270
 Ion Ratio Lower Upper
 63 100
 65 31.7 22.3 41.3
 83 13.9 9.3 17.3



#20
 cis-1,2-Dichloroethene
 Concen: 42.866 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV018629.D
 Acq: 02 Oct 2020 16:41

Tgt Ion: 96 Resp: 106269
 Ion Ratio Lower Upper
 96 100
 61 128.9 86.8 161.2
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 89.794 ug/L

RT: 3.99 min Scan# 903

Delta R.T. 0.01 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampled :

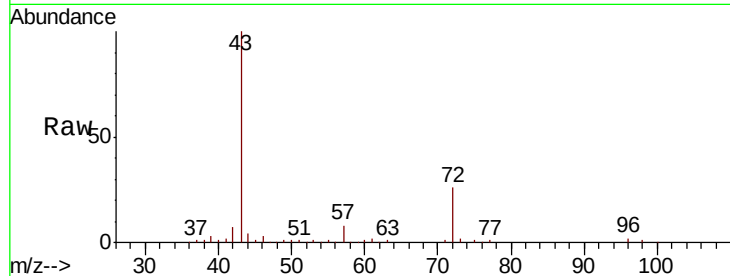
VSTD05067

Tot Ion: 43 Resp: 140007

Ion Ratio Lower Upper

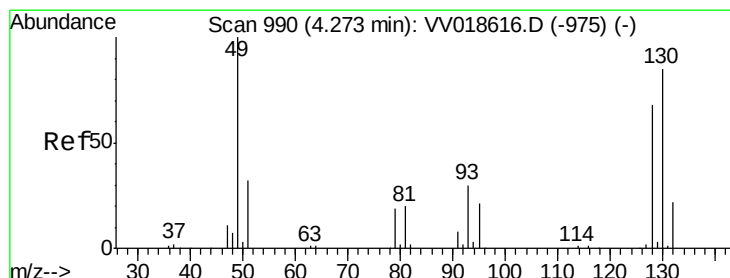
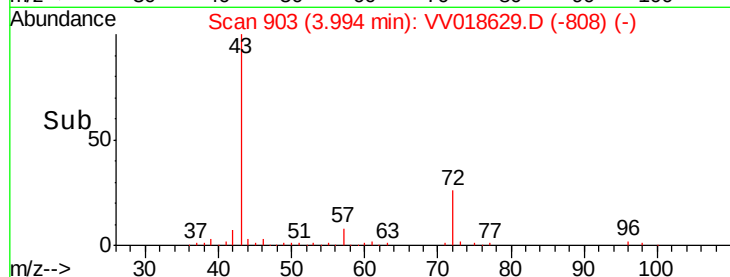
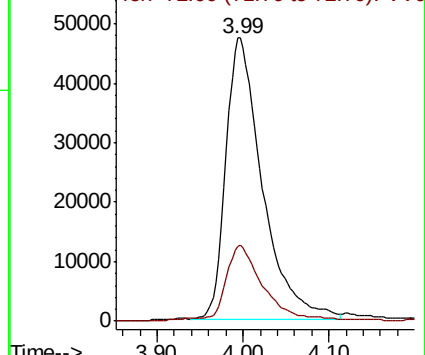
43 100

72 24.3 12.1 36.3



Abundance Ion 43.00 (42.70 to 43.70): VV018616.D (-885) (-)

Ion 72.00 (71.70 to 72.70): VV018616.D (-885) (-)



#23

Bromochloromethane

Concen: 43.052 ug/L

RT: 4.27 min Scan# 990

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Tgt Ion: 128 Resp: 58690

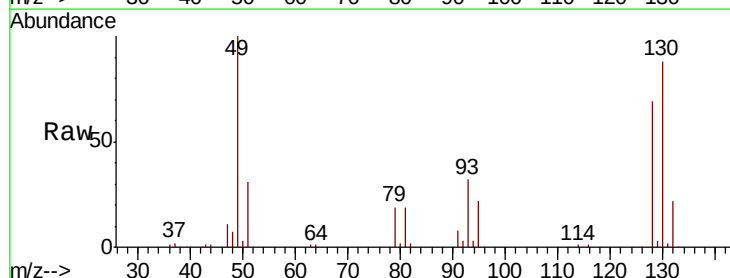
Ion Ratio Lower Upper

128 100

49 144.7 105.1 195.1

130 127.6 90.0 167.2

51 45.3 38.6 57.8

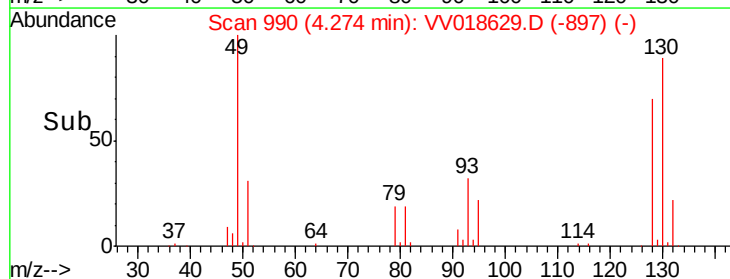
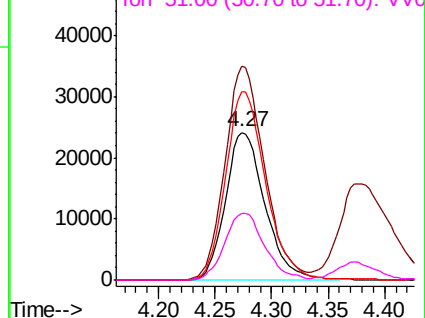


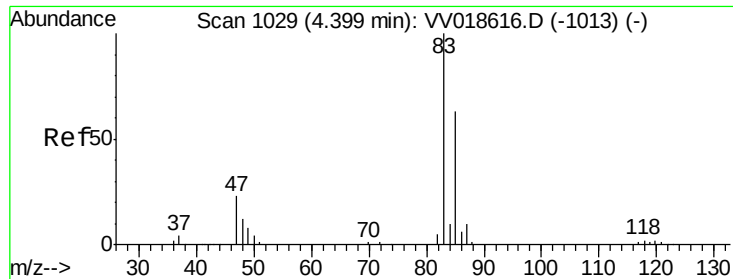
Abundance Ion 128.00 (127.70 to 128.70): VV018616.D (-975) (-)

Ion 49.00 (48.70 to 49.70): VV018616.D (-975) (-)

Ion 130.00 (129.70 to 130.70): VV018616.D (-975) (-)

Ion 51.00 (50.70 to 51.70): VV018616.D (-975) (-)

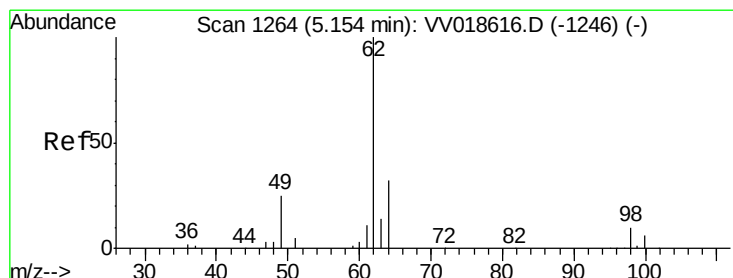
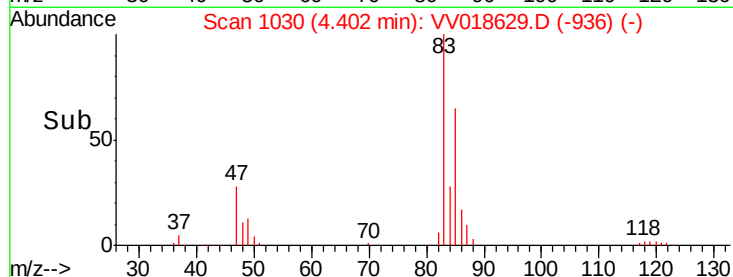
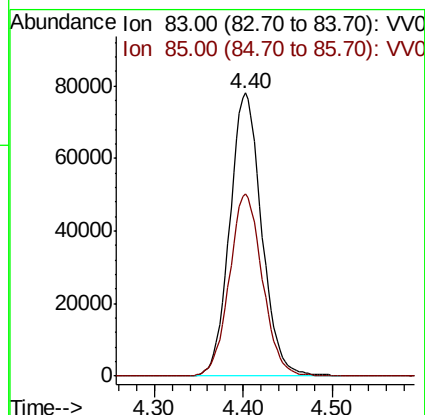
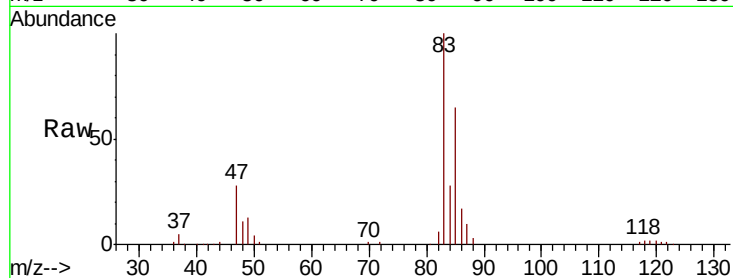




#25
Chloroform
Concen: 44.698 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV018629.D
Acq: 02 Oct 2020 16:41

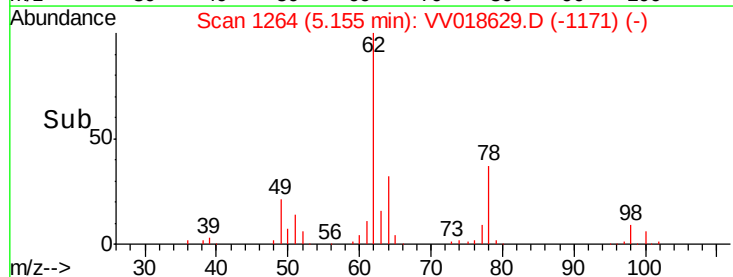
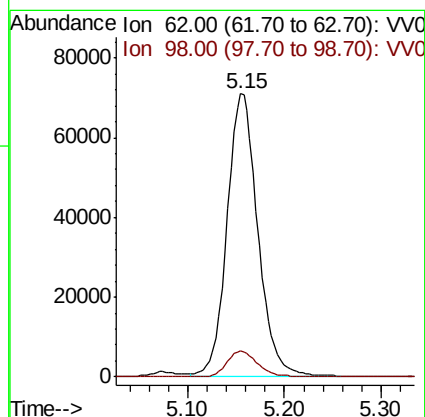
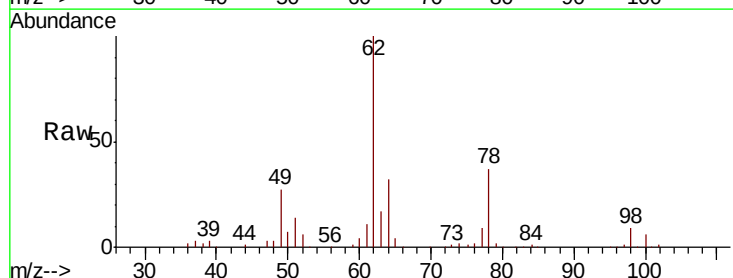
Instrument :
MSVOA_V
ClientSampleId :
VSTD05067

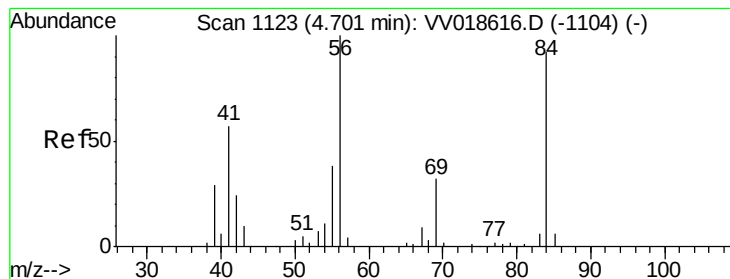
Tot Ion: 83 Resp: 192770
Ion Ratio Lower Upper
83 100
85 64.5 46.2 85.8



#27
1,2-Dichloroethane
Concen: 46.457 ug/L
RT: 5.15 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VV018629.D
Acq: 02 Oct 2020 16:41

Tgt Ion: 62 Resp: 156165
Ion Ratio Lower Upper
62 100
98 9.1 7.7 11.5





#29

Cyclohexane

Concen: 40.557 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD05067

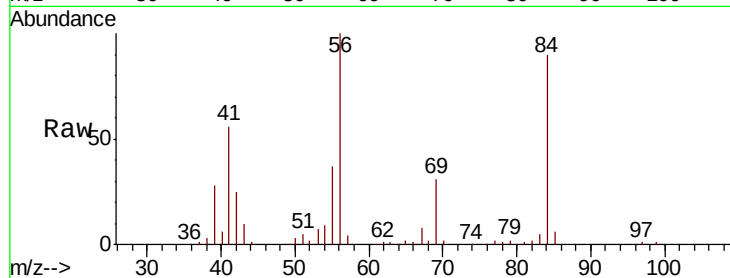
Tot Ion: 56 Resp: 148350

Ion Ratio Lower Upper

56 100

69 31.6 24.8 37.2

84 92.0 72.2 108.4

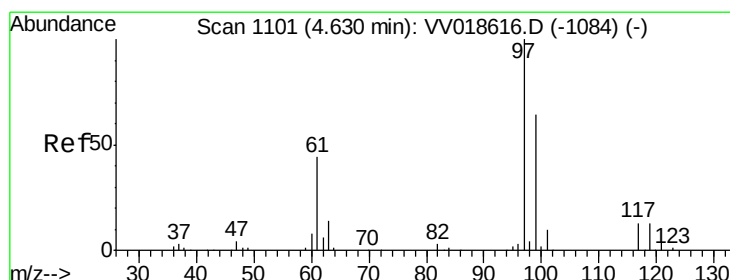
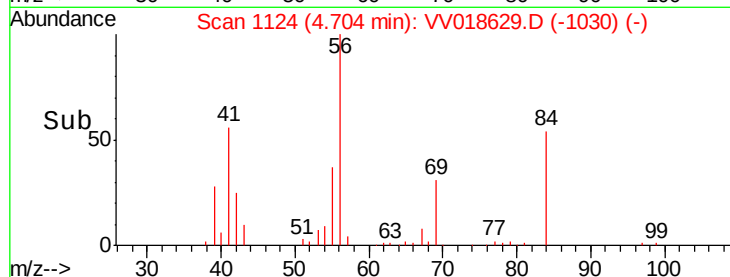
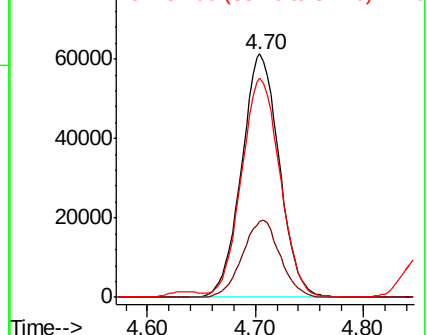


Abundance

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: 44.940 ug/L

RT: 4.64 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

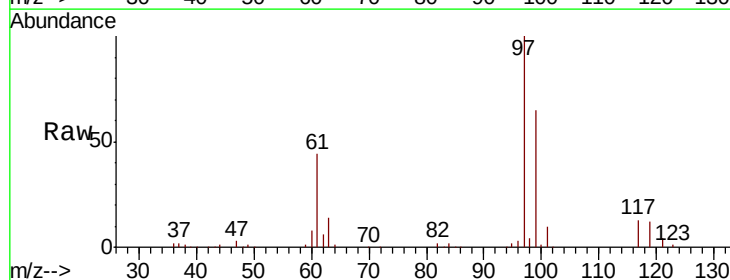
Tgt Ion: 97 Resp: 178931

Ion Ratio Lower Upper

97 100

99 65.0 51.4 77.0

61 43.3 33.9 50.9

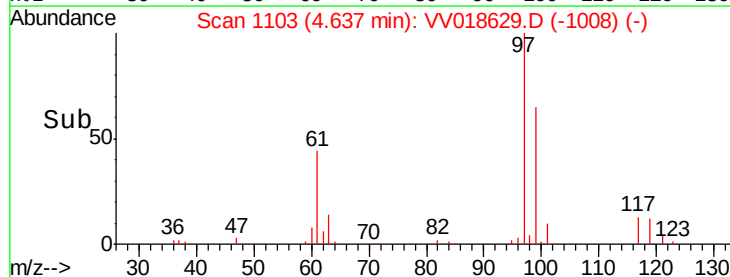
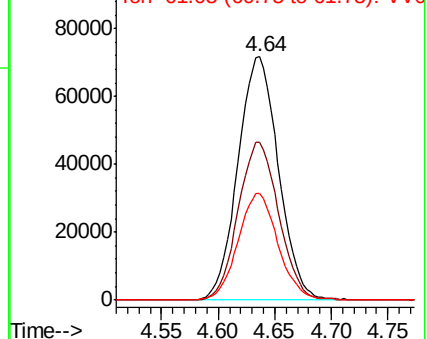


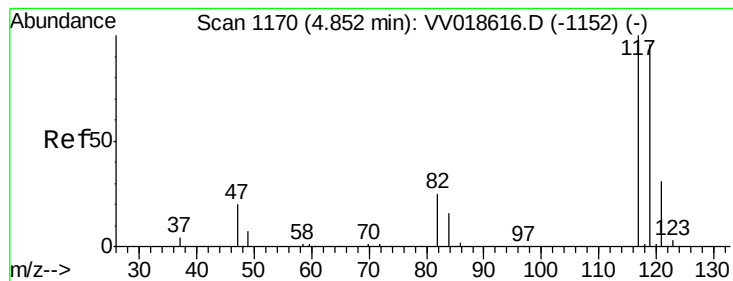
Abundance

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: 44.292 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

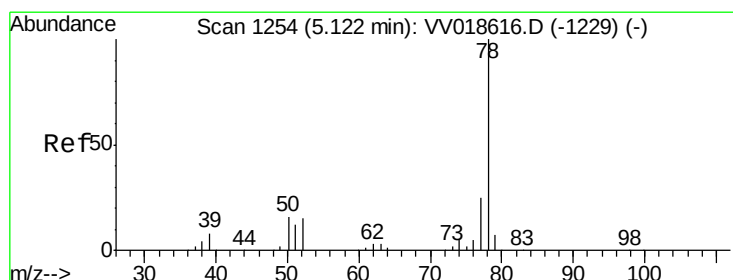
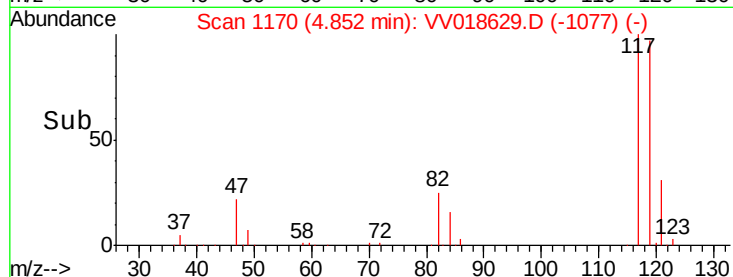
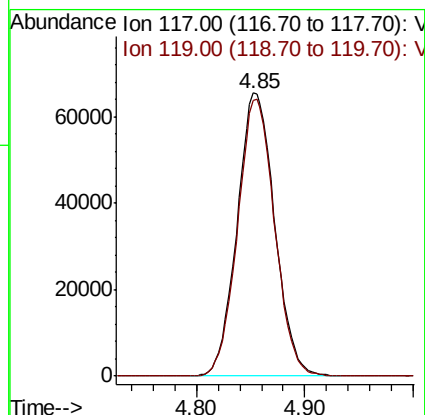
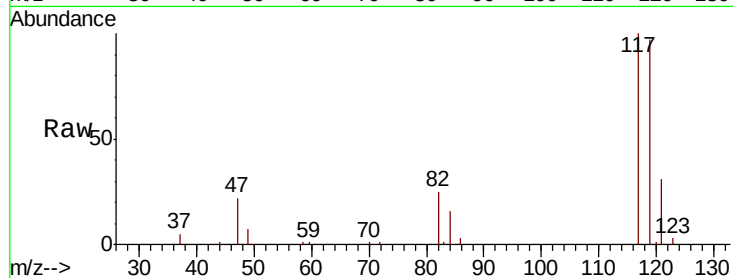
VSTD05067

Tot Ion:117 Resp: 158273

Ion Ratio Lower Upper

117 100

119 96.5 77.0 115.6



#33

Benzene

Concen: 42.596 ug/L

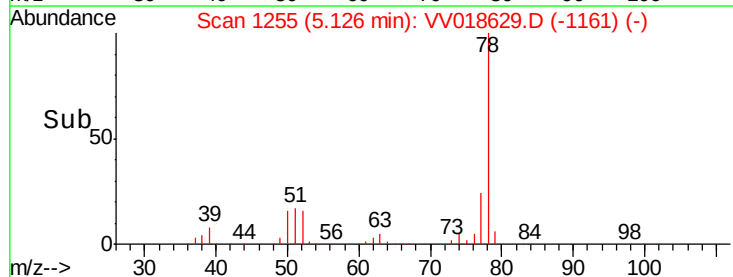
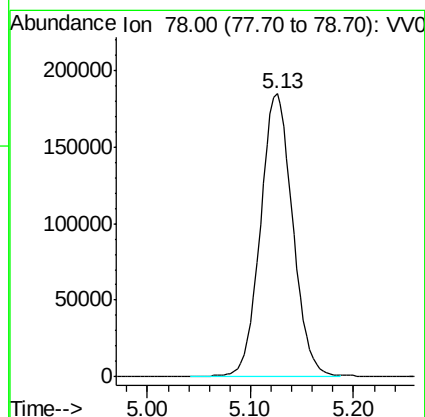
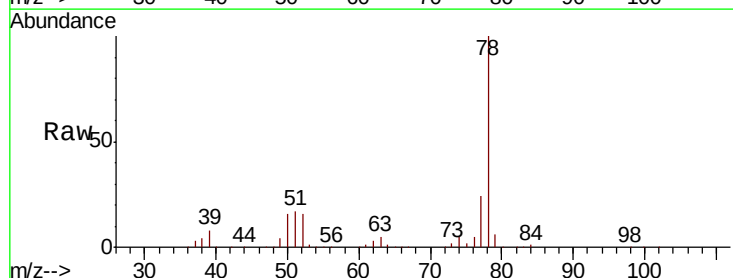
RT: 5.13 min Scan# 1255

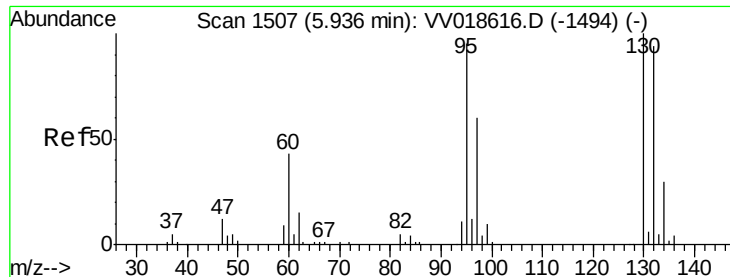
Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Tgt Ion: 78 Resp: 401341





#34

Trichloroethene

Concen: 43.100 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD05067

Tot Ion: 95 Resp: 117897

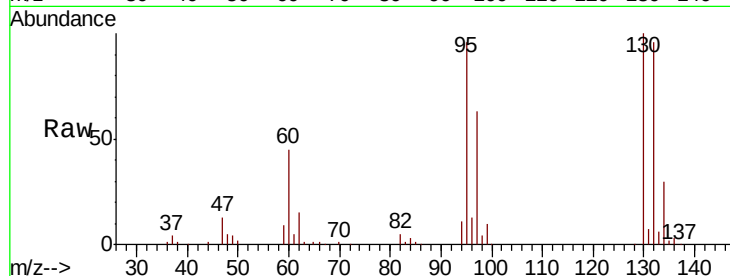
Ion Ratio Lower Upper

95 100

97 65.2 45.9 85.3

132 99.2 70.8 131.4

130 103.9 75.3 139.8



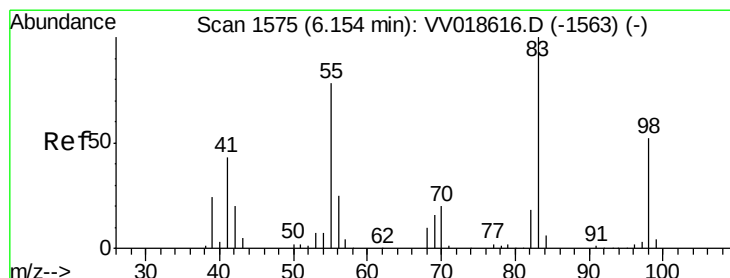
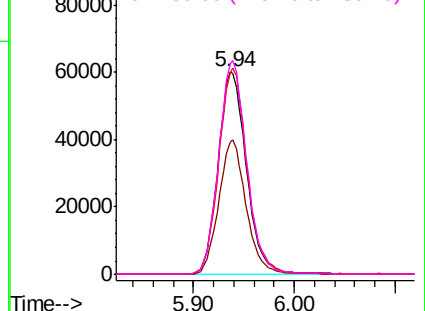
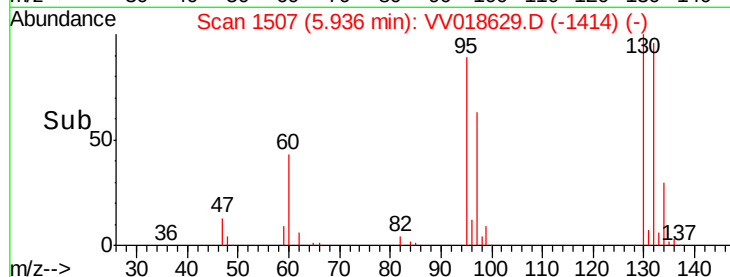
Abundance

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 39.578 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

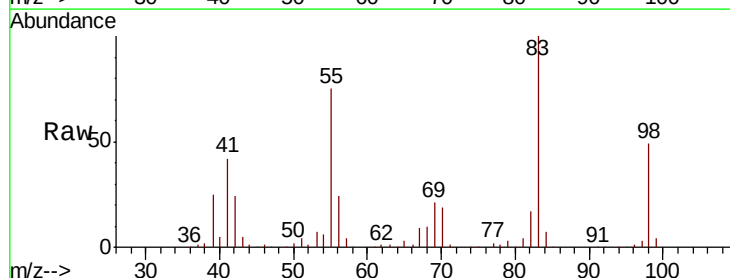
Tgt Ion: 83 Resp: 146044

Ion Ratio Lower Upper

83 100

55 74.5 60.1 90.1

98 50.6 40.2 60.4

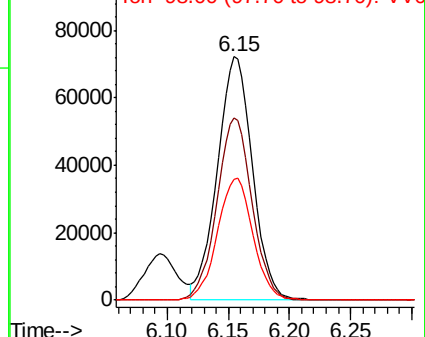
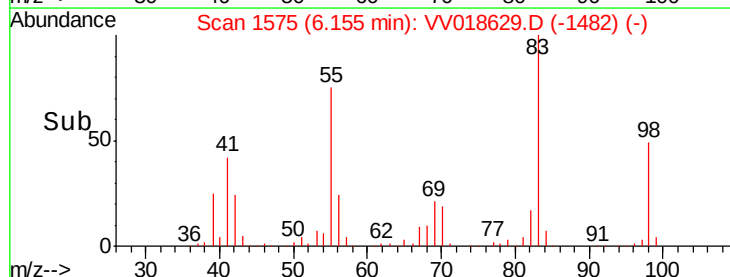


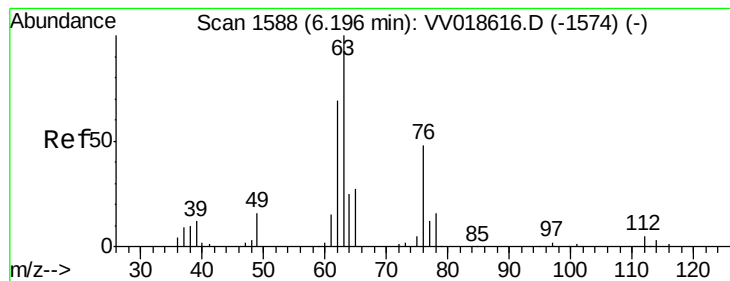
Abundance

Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 41.825 ug/L

RT: 6.20 min Scan# 1588

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

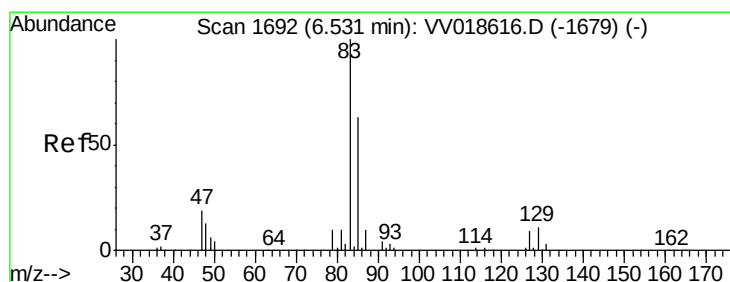
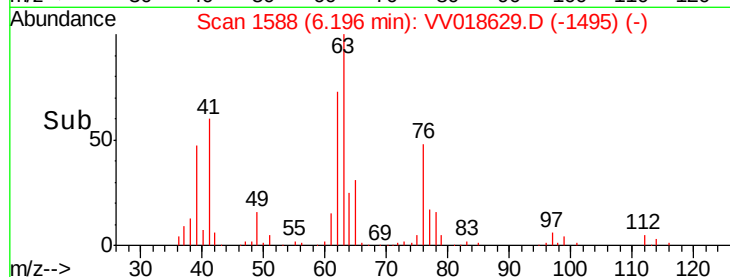
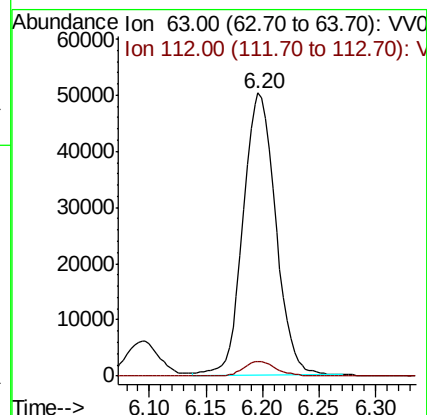
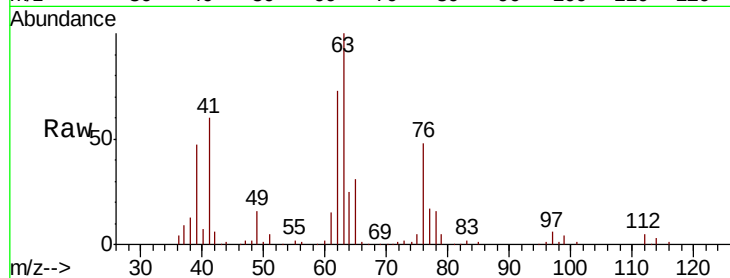
VSTD05067

Tot Ion: 63 Resp: 101106

Ion Ratio Lower Upper

63 100

112 5.2 3.9 5.9



#38

Bromodichloromethane

Concen: 43.466 ug/L

RT: 6.53 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

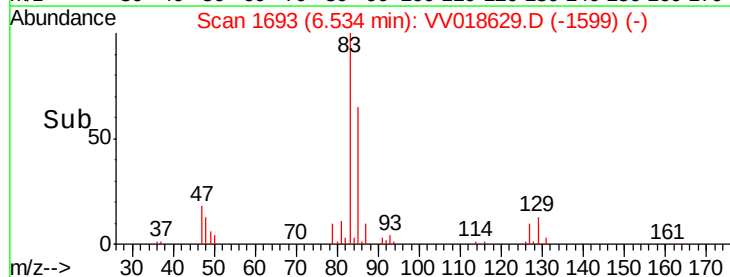
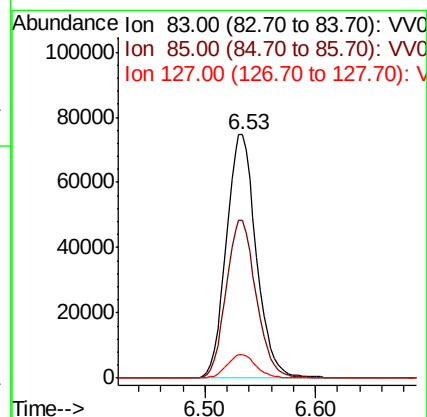
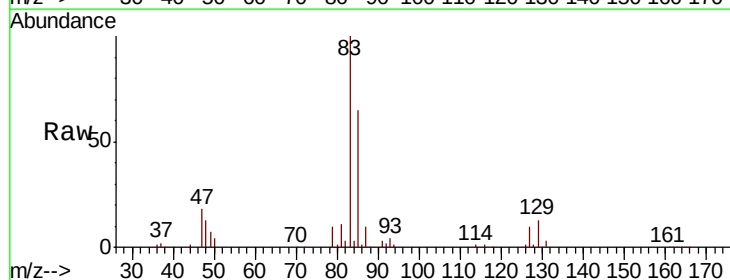
Tgt Ion: 83 Resp: 140718

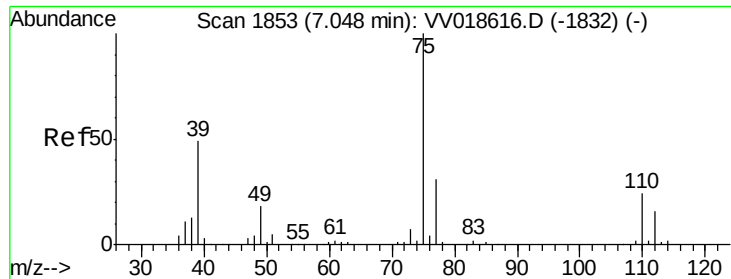
Ion Ratio Lower Upper

83 100

85 64.6 44.5 82.7

127 9.6 7.2 10.8

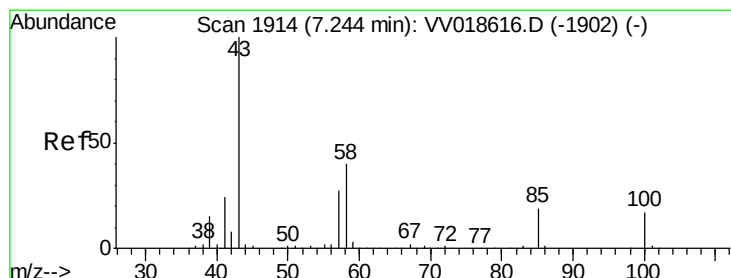
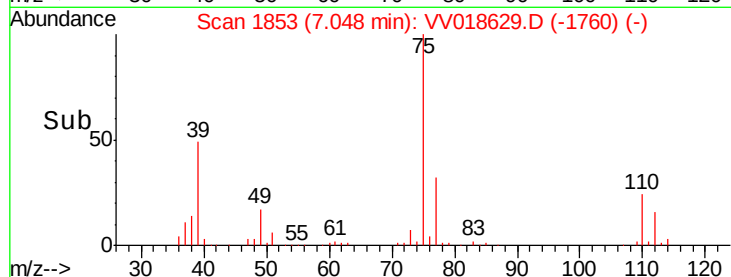
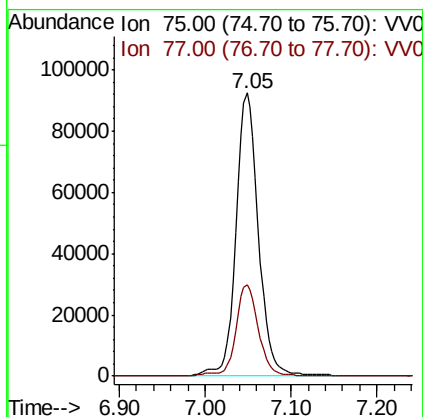
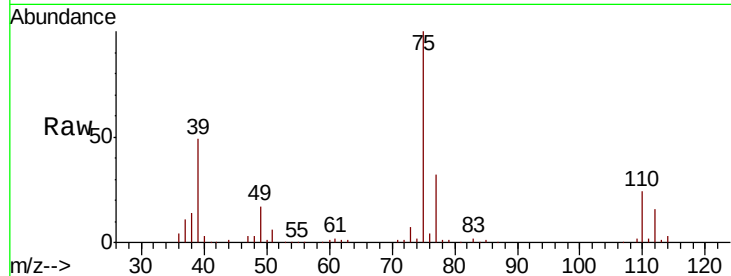




#39
 cis-1,3-Dichloropropene
 Concen: 44.160 ug/L
 RT: 7.05 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VV018629.D
 Acq: 02 Oct 2020 16:41

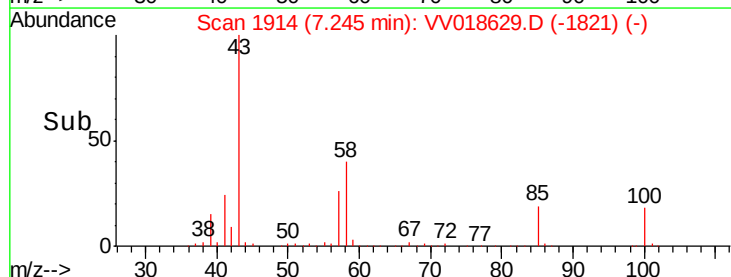
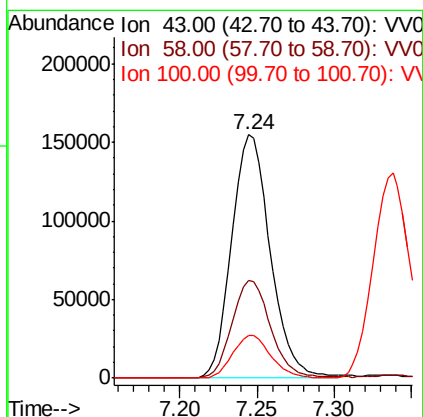
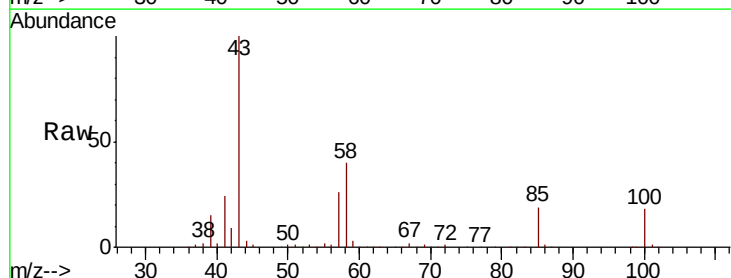
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD05067

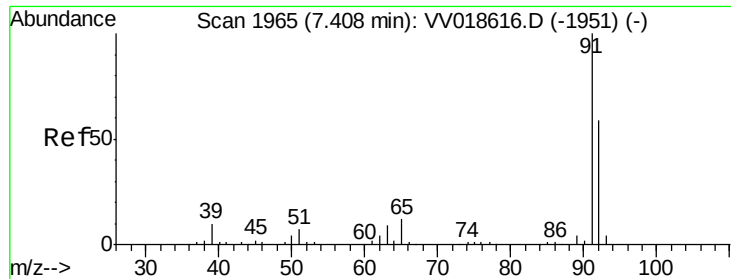
Tot Ion: 75 Resp: 167488
 Ion Ratio Lower Upper
 75 100
 77 32.2 23.0 42.6



#40
 4-Methyl-2-pentanone
 Concen: 86.136 ug/L
 RT: 7.24 min Scan# 1914
 Delta R.T. 0.00 min
 Lab File: VV018629.D
 Acq: 02 Oct 2020 16:41

Tgt Ion: 43 Resp: 268683
 Ion Ratio Lower Upper
 43 100
 58 40.4 31.8 47.6
 100 17.4 13.4 20.0





#42

Toluene

Concen: 43.593 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

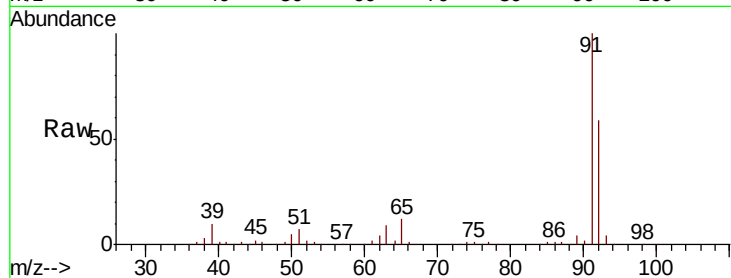
VSTD05067

Tot Ion: 91 Resp: 444334

Ion Ratio Lower Upper

91 100

92 58.5 41.6 77.3



Abundance Ion 91.00 (90.70 to 91.70): VV018616.D (-1951) (-)

Ion 92.00 (91.70 to 92.70): VV018629.D (-1872) (-)

7.41

250000

200000

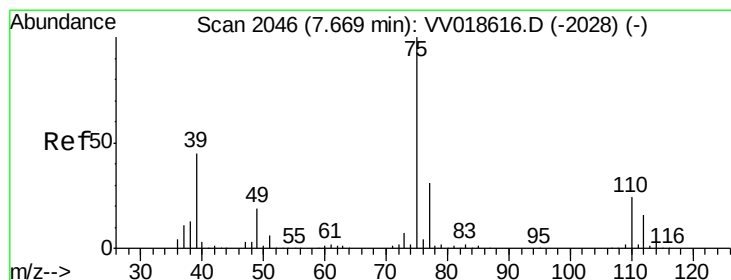
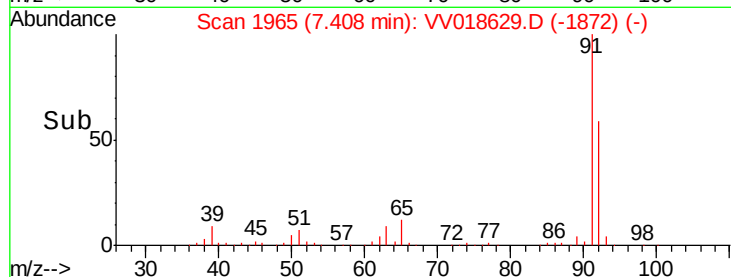
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 45.589 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VV018629.D

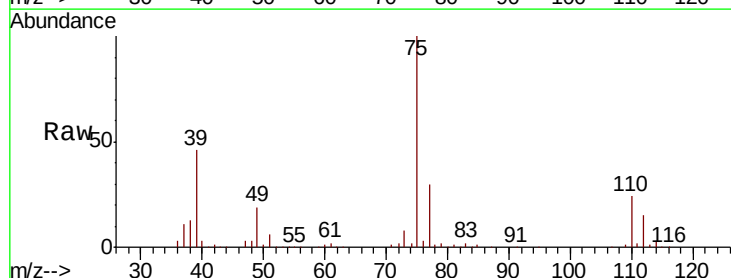
Acq: 02 Oct 2020 16:41

Tgt Ion: 75 Resp: 169851

Ion Ratio Lower Upper

75 100

77 30.4 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VV018616.D (-2028) (-)

Ion 77.00 (76.70 to 77.70): VV018629.D (-1953) (-)

7.67

100000

80000

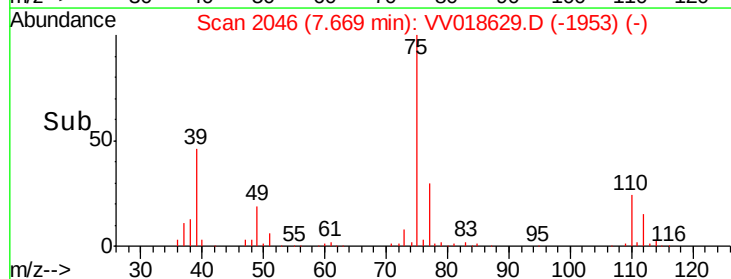
60000

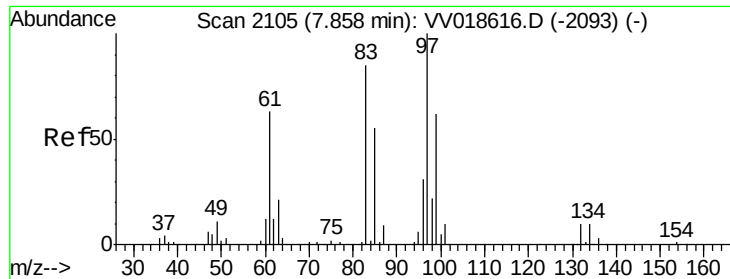
40000

20000

0

Time-->

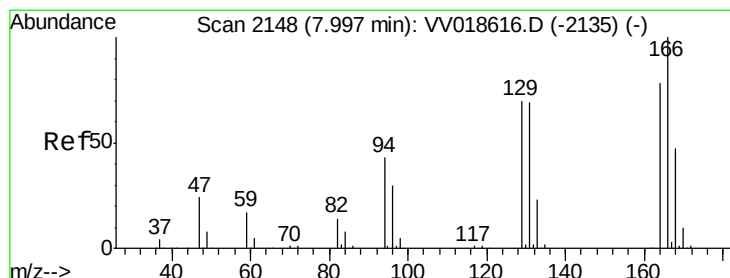
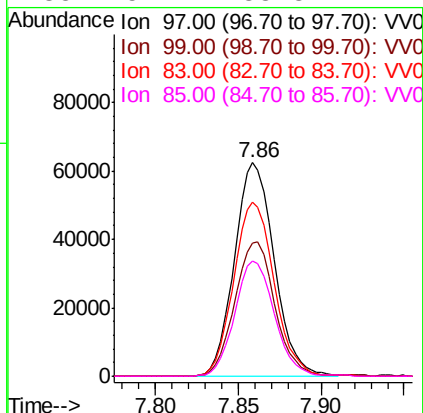
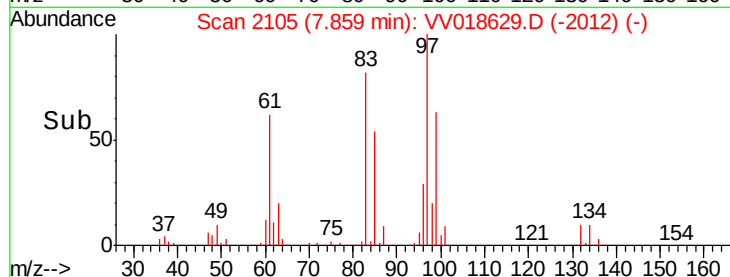
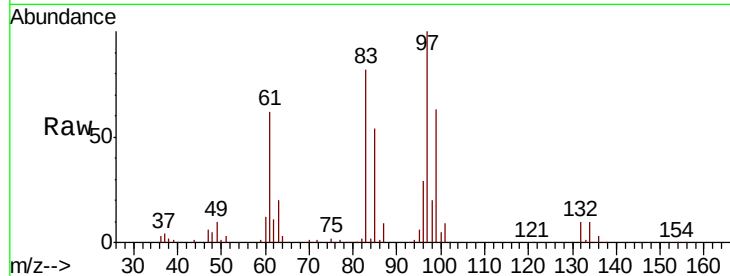




#45
 1,1,2-Trichloroethane
 Concen: 43.649 ug/L
 RT: 7.86 min Scan# 2105
 Delta R.T. 0.00 min
 Lab File: VV018629.D
 Acq: 02 Oct 2020 16:41

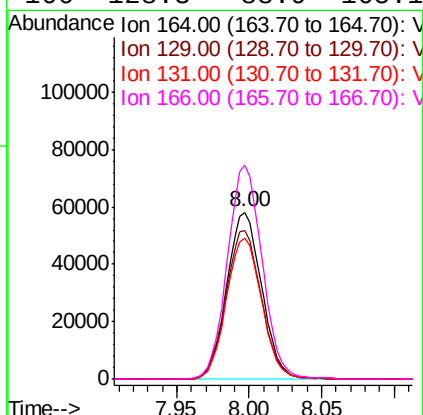
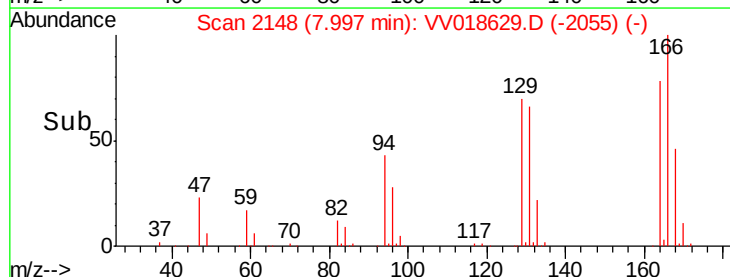
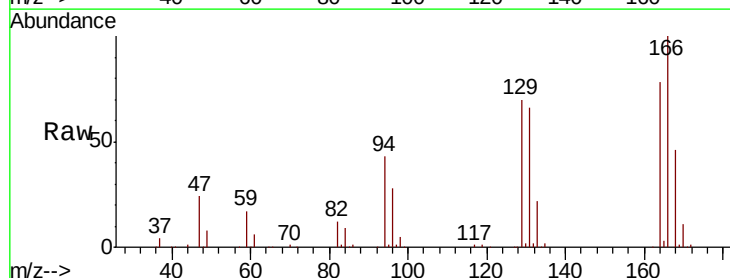
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05067

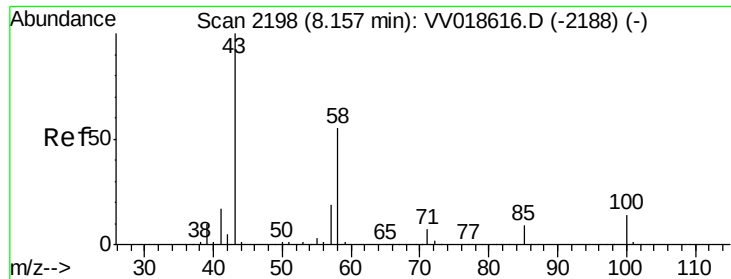
Tot Ion:	97	Resp:	104454
Ion	Ratio	Lower	Upper
97	100		
99	62.6	43.3	80.3
83	81.7	60.5	112.5
85	54.1	38.3	71.1



#46
 Tetrachloroethene
 Concen: 43.716 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. 0.00 min
 Lab File: VV018629.D
 Acq: 02 Oct 2020 16:41

Tgt Ion:	164	Resp:	97014
Ion	Ratio	Lower	Upper
164	100		
129	89.2	62.8	116.6
131	84.4	60.8	112.8
166	128.3	88.9	165.1

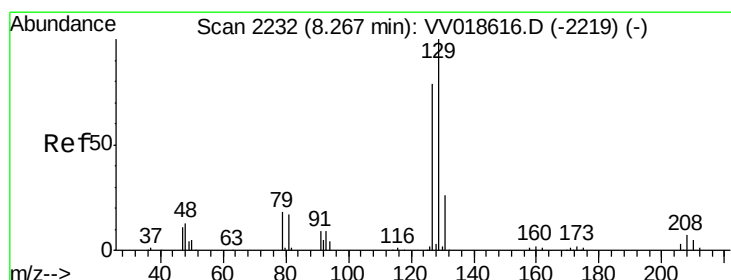
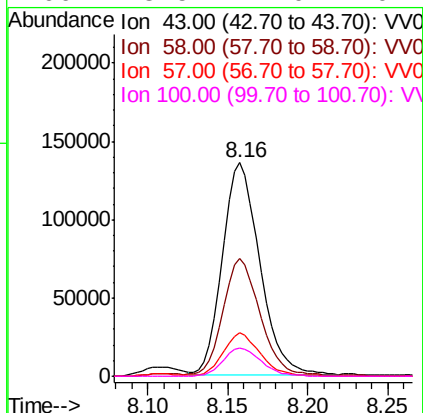
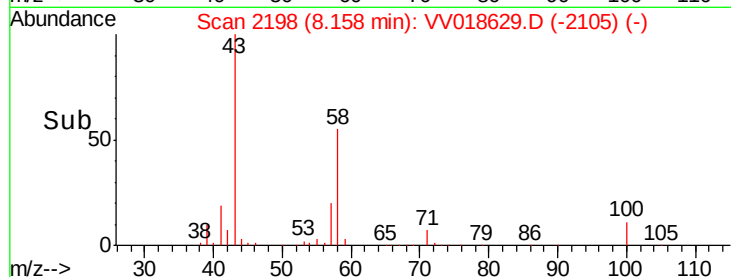
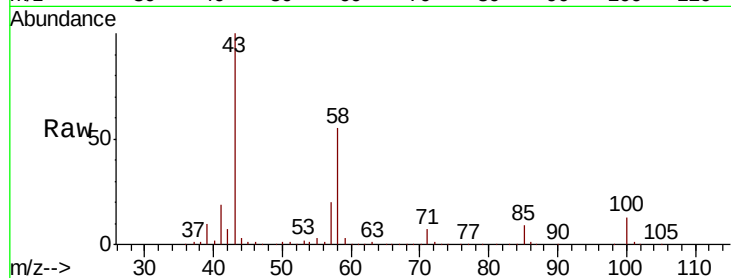




#48
2-Hexanone
Concen: 89.252 ug/L
RT: 8.16 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VV018629.D
Acq: 02 Oct 2020 16:41

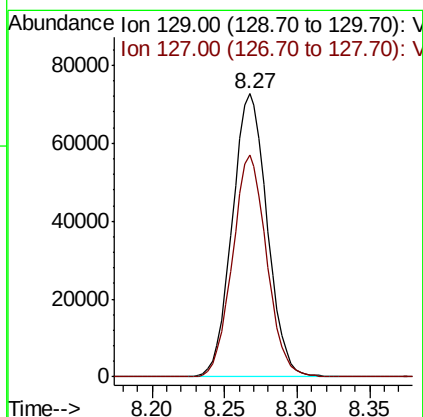
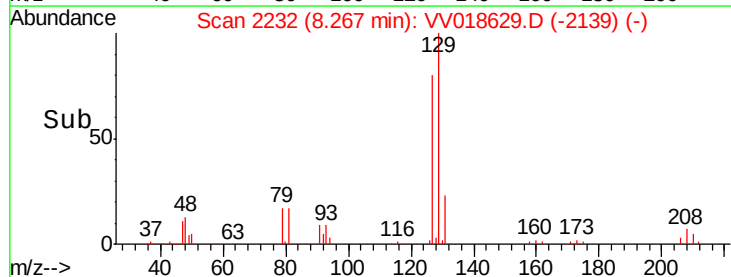
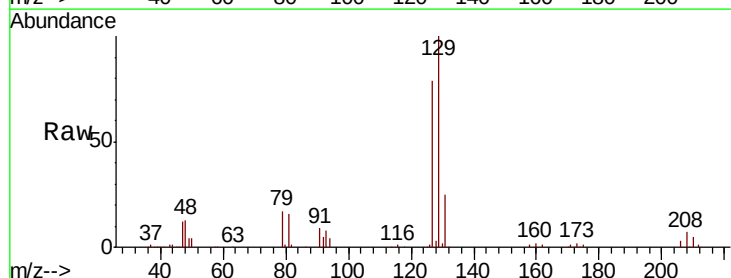
Instrument :
MSVOA_V
ClientSampleId :
VSTD05067

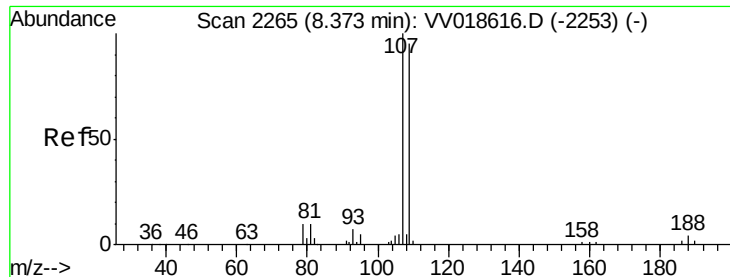
Tot Ion: 43 Resp: 217222
Ion Ratio Lower Upper
43 100
58 55.2 45.1 67.7
57 20.0 15.7 23.5
100 13.5 11.0 16.4



#49
Dibromochloromethane
Concen: 44.410 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV018629.D
Acq: 02 Oct 2020 16:41

Tgt Ion: 129 Resp: 121554
Ion Ratio Lower Upper
129 100
127 78.6 54.1 100.5

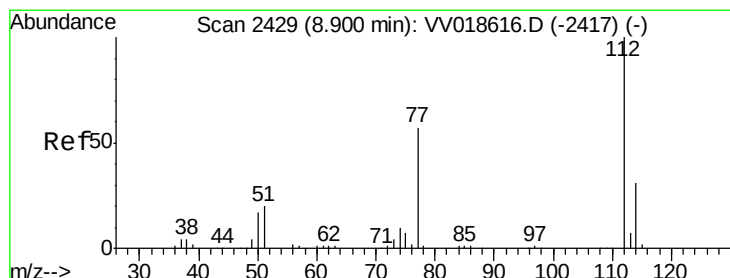
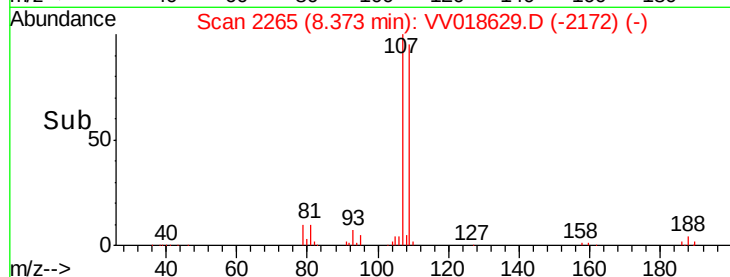
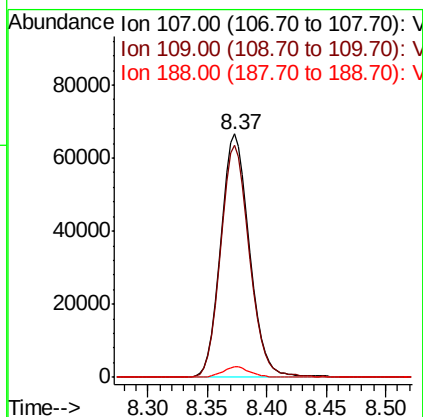
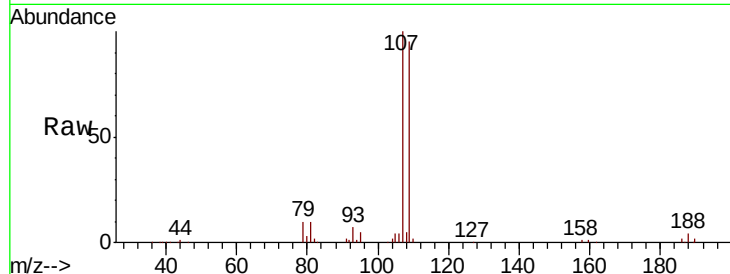




#50
1,2-Dibromoethane
Concen: 43.922 ug/L
RT: 8.37 min Scan# 2265
Delta R.T. 0.00 min
Lab File: VV018629.D
Acq: 02 Oct 2020 16:41

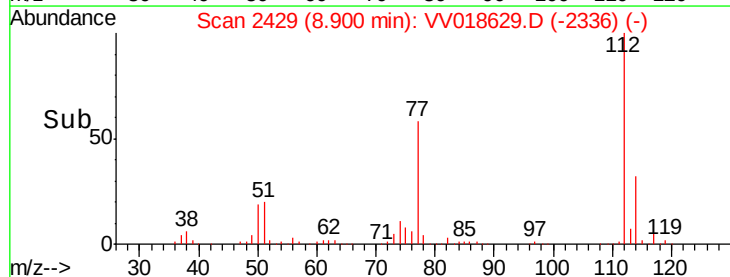
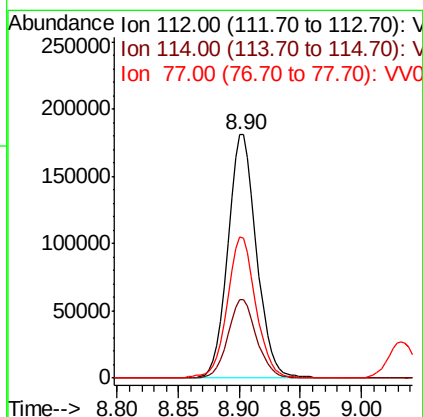
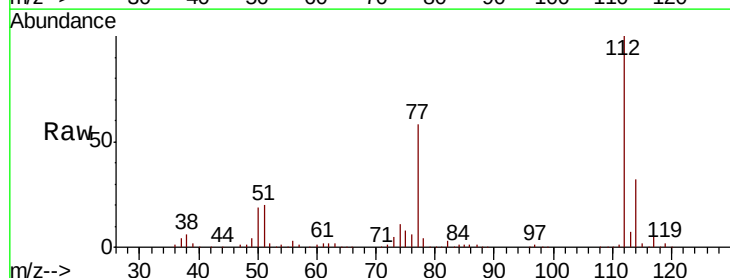
Instrument :
MSVOA_V
ClientSampleId :
VSTD05067

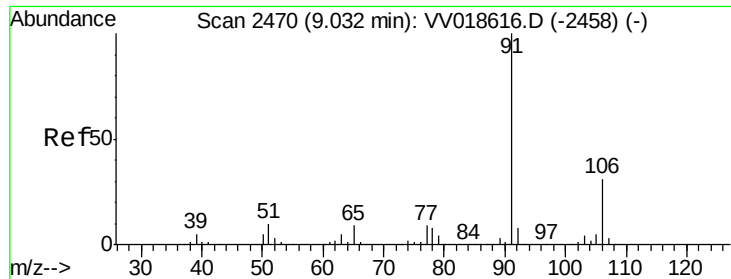
Tot Ion	Ratio	Lower	Upper
107	100		
109	95.4	65.1	120.9
188	4.1	3.7	5.5



#51
Chlorobenzene
Concen: 43.021 ug/L
RT: 8.90 min Scan# 2429
Delta R.T. 0.00 min
Lab File: VV018629.D
Acq: 02 Oct 2020 16:41

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.4	41.6
77	58.1	44.8	67.2

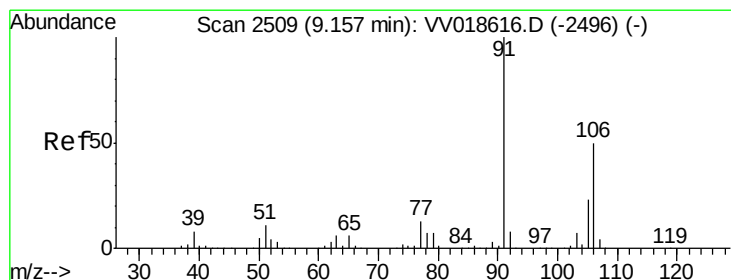
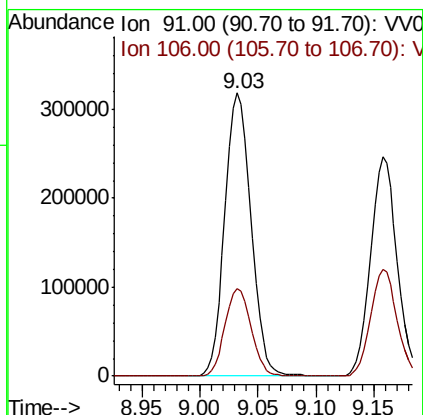
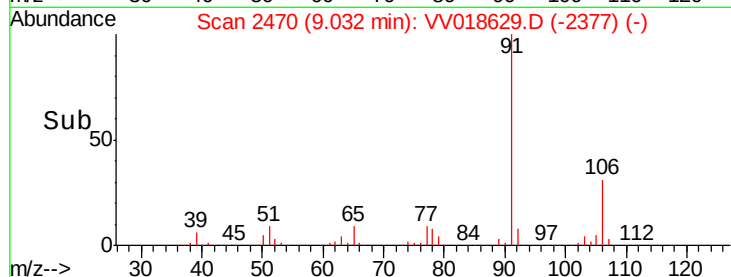
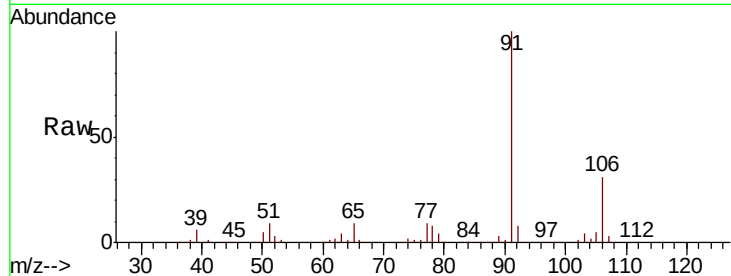




#52
Ethylbenzene
Concen: 43.874 ug/L
RT: 9.03 min Scan# 2470
Delta R.T. 0.00 min
Lab File: VV018629.D
Acq: 02 Oct 2020 16:41

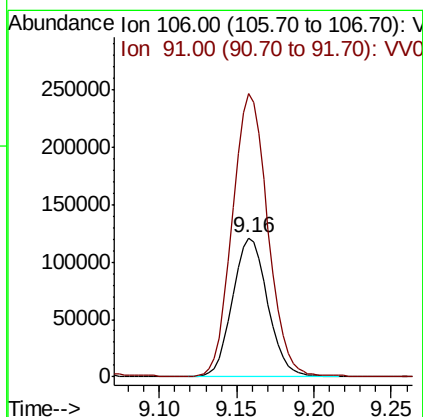
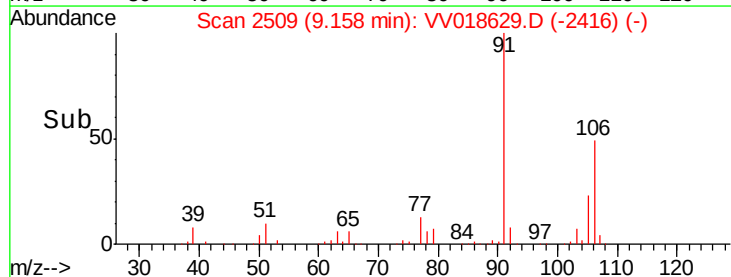
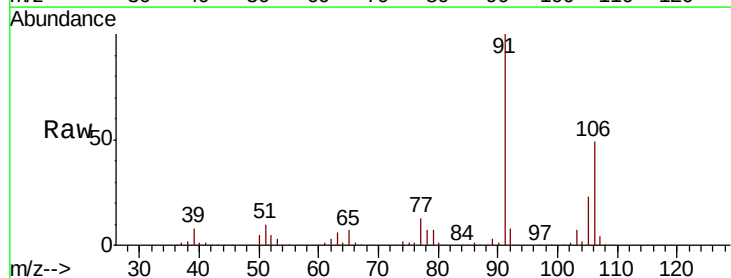
Instrument :
MSVOA_V
ClientSampleId :
VSTD05067

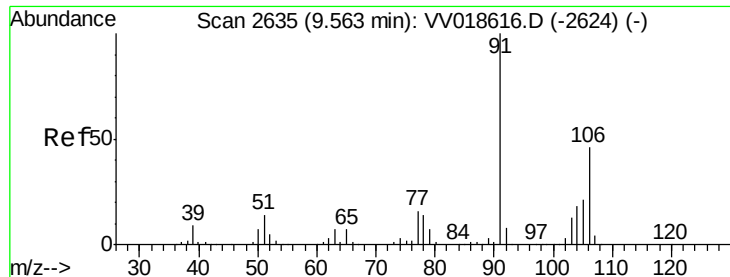
Tot Ion: 91 Resp: 499421
Ion Ratio Lower Upper
91 100
106 30.8 21.9 40.7



#53
m,p-Xylene
Concen: 43.130 ug/L
RT: 9.16 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VV018629.D
Acq: 02 Oct 2020 16:41

Tgt Ion: 106 Resp: 189732
Ion Ratio Lower Upper
106 100
91 204.1 142.3 264.3





#54

o-xylene

Concen: 44.314 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

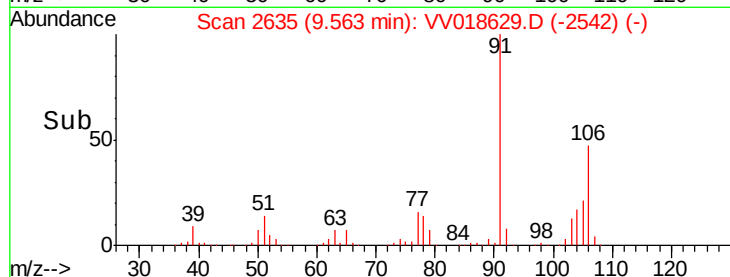
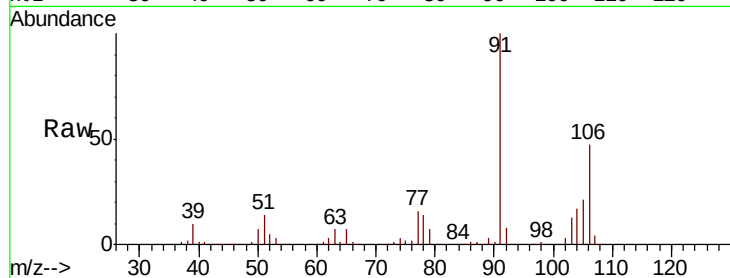
VSTD05067

Tot Ion:106 Resp: 184564

Ion Ratio Lower Upper

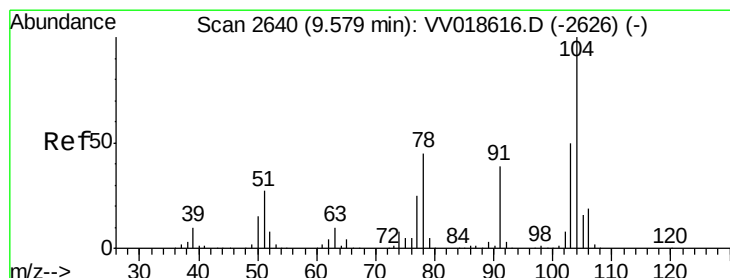
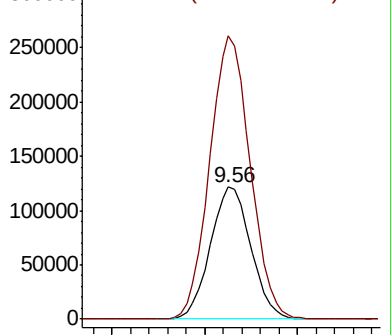
106 100

91 213.9 151.0 280.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 45.111 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV018629.D

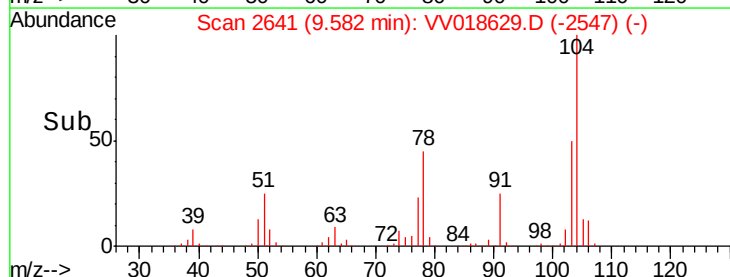
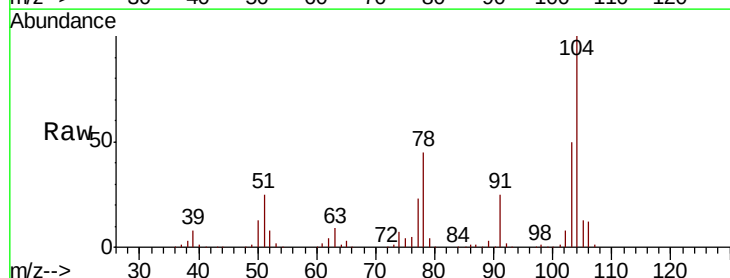
Acq: 02 Oct 2020 16:41

Tgt Ion:104 Resp: 327149

Ion Ratio Lower Upper

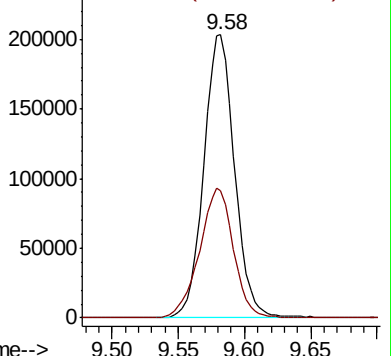
104 100

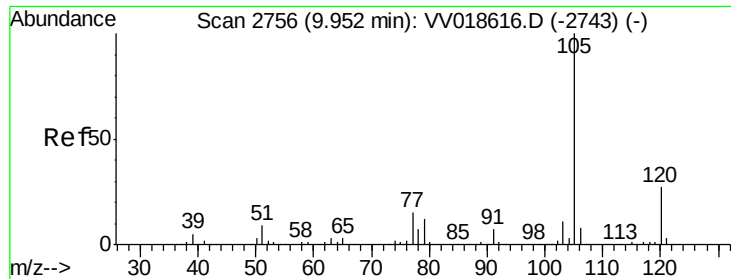
78 44.8 30.2 56.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 43.969 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD05067

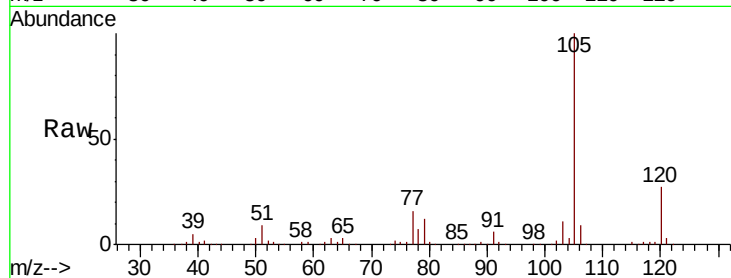
Tot Ion:105 Resp: 491131

Ion Ratio Lower Upper

105 100

120 26.8 21.5 32.3

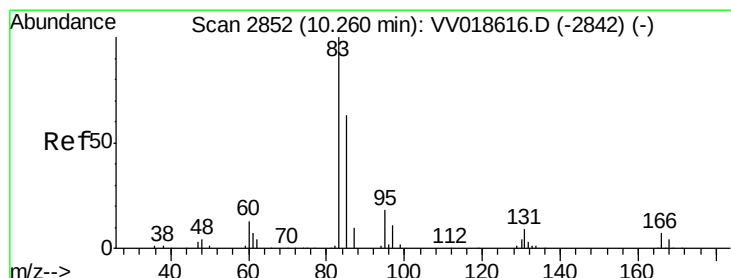
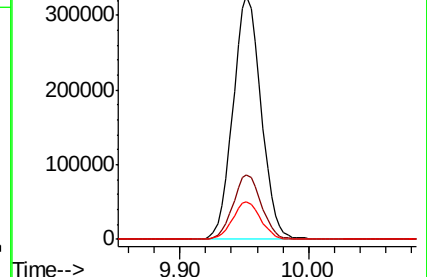
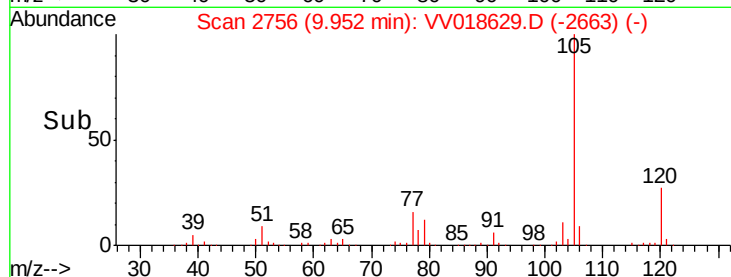
77 15.4 12.2 18.2



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: 42.056 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

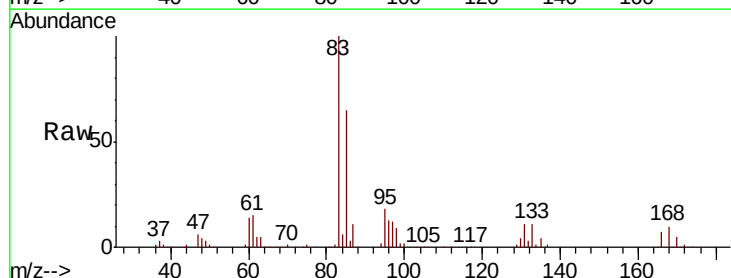
Tgt Ion: 83 Resp: 141858

Ion Ratio Lower Upper

83 100

85 65.0 44.5 82.7

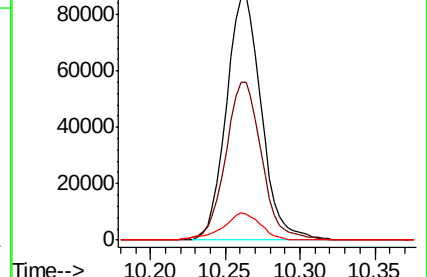
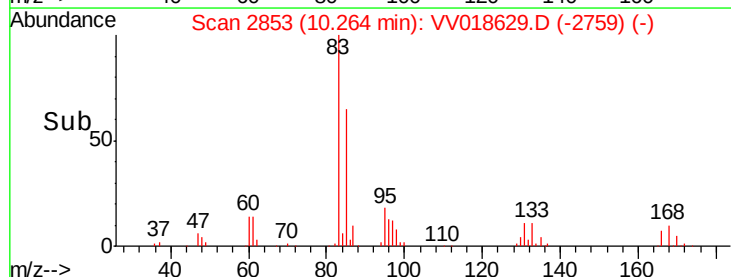
131 10.9 8.6 12.8

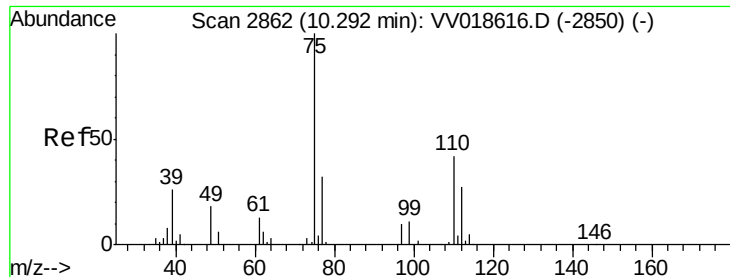


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 43.682 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

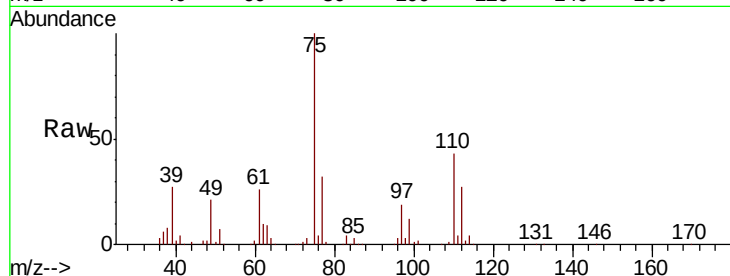
VSTD05067

Tot Ion: 75 Resp: 128442

Ion Ratio Lower Upper

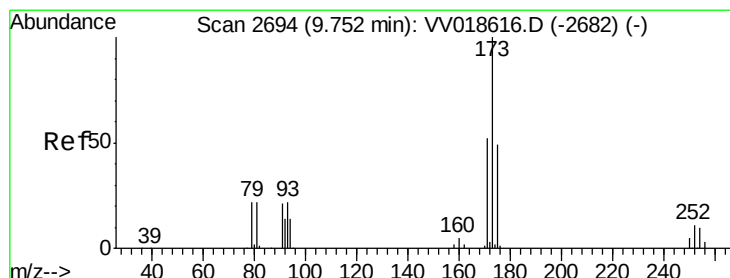
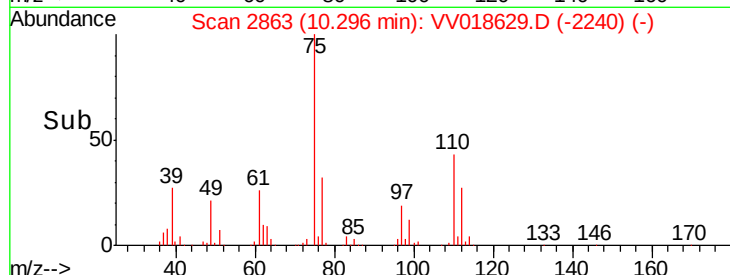
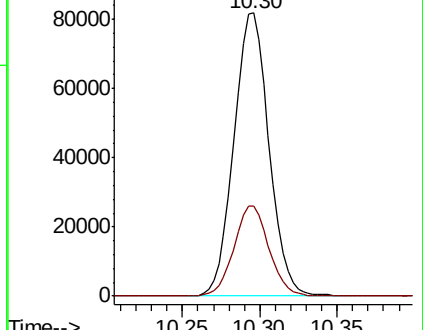
75 100

77 31.8 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VV018616.D (-2850) (-)

Ion 77.00 (76.70 to 77.70): VV018616.D (-2850) (-)



#61

Bromoform

Concen: 43.379 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

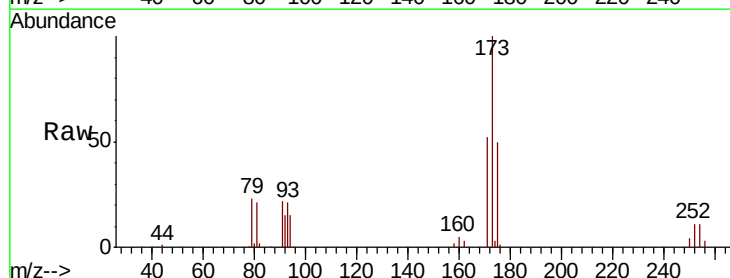
Tgt Ion: 173 Resp: 88544

Ion Ratio Lower Upper

173 100

175 49.1 39.8 59.8

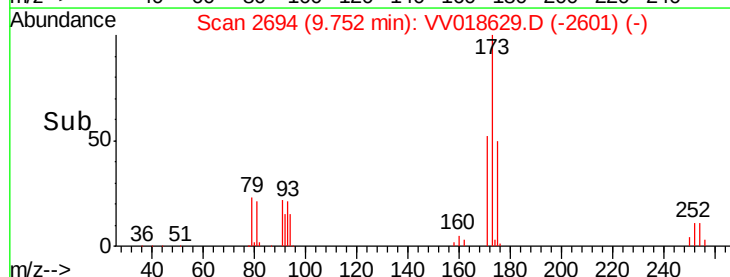
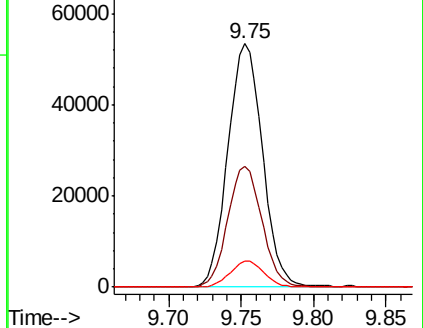
254 10.3 8.5 12.7

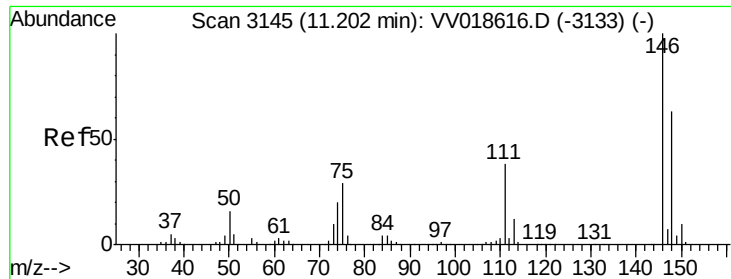


Abundance Ion 173.00 (172.70 to 173.70): VV018616.D (-2682) (-)

Ion 175.00 (174.70 to 175.70): VV018616.D (-2682) (-)

Ion 254.00 (253.70 to 254.70): VV018616.D (-2682) (-)





#62

1,3-Dichlorobenzene

Concen: 43.427 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD05067

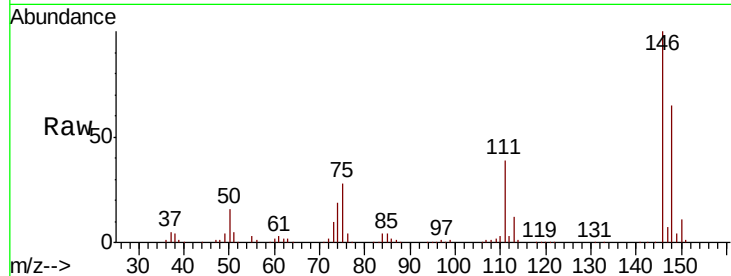
Tot Ion:146 Resp: 249741

Ion Ratio Lower Upper

146 100

111 39.0 26.8 49.8

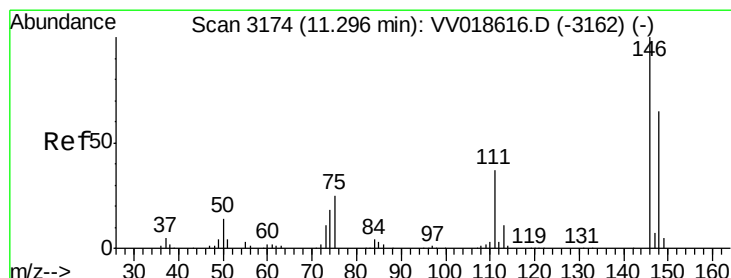
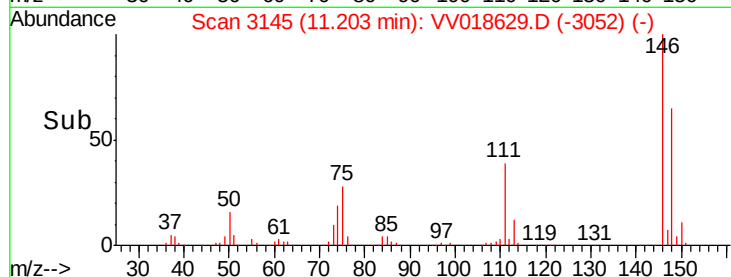
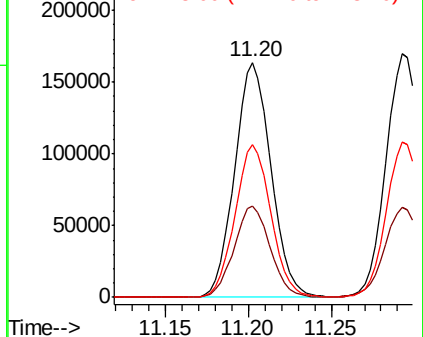
148 65.3 44.0 81.8



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: 43.487 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. -0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

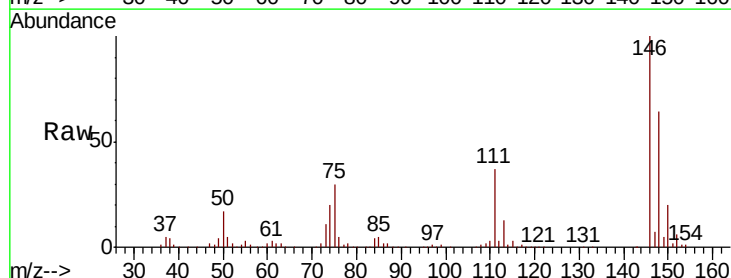
Tgt Ion:146 Resp: 257525

Ion Ratio Lower Upper

146 100

111 37.2 26.2 48.6

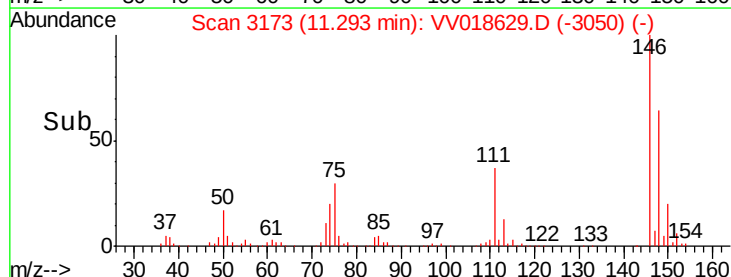
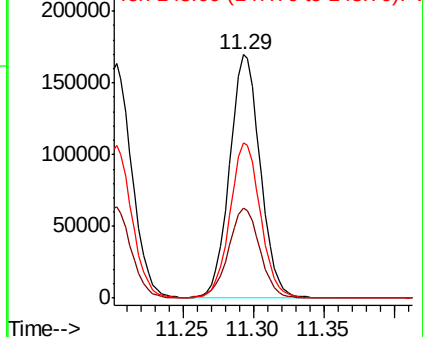
148 63.9 44.4 82.5

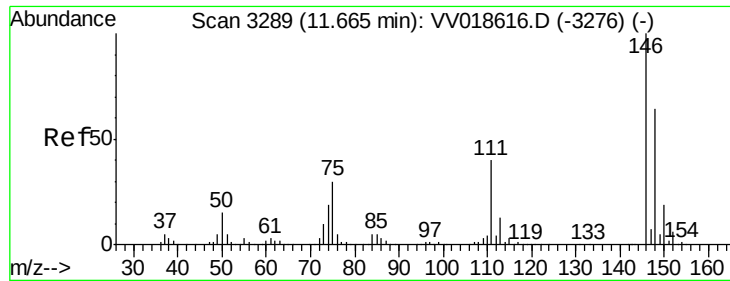


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

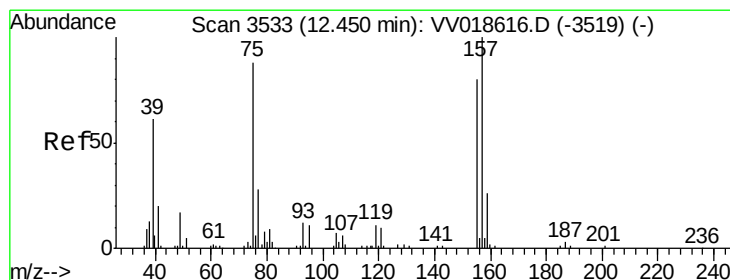
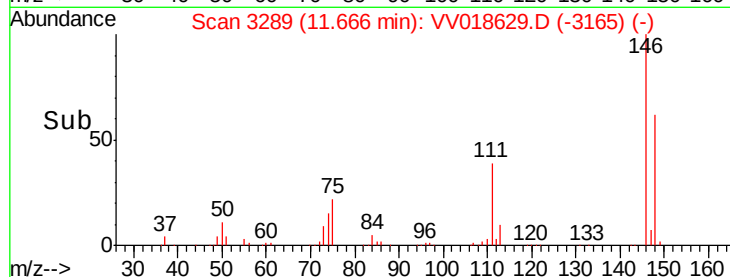
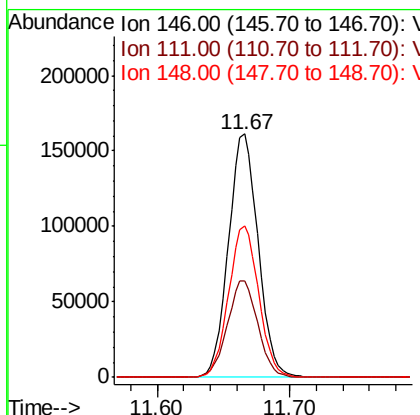
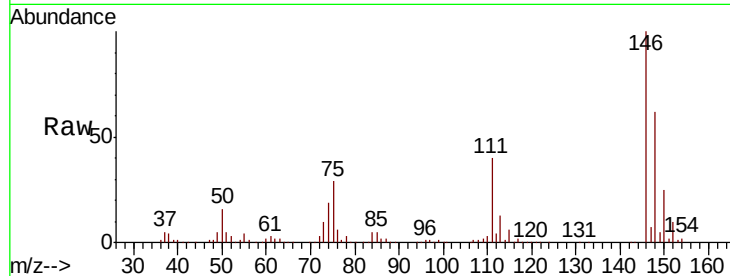




#65
 1,2-Dichlorobenzene
 Concen: 44.004 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV018629.D
 Acq: 02 Oct 2020 16:41

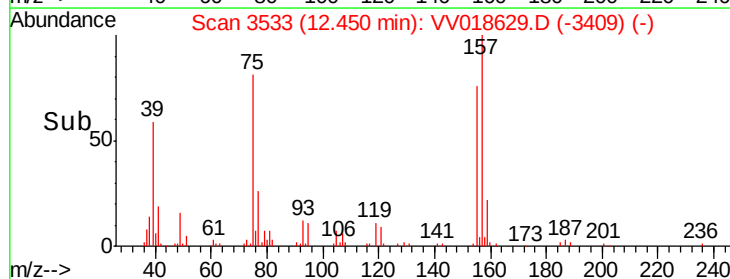
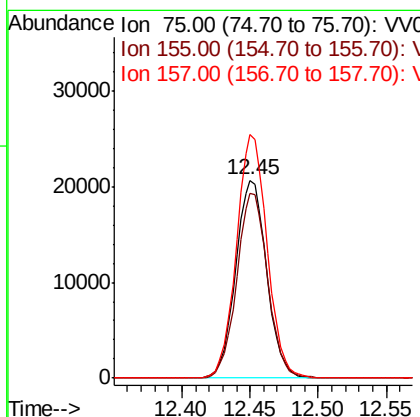
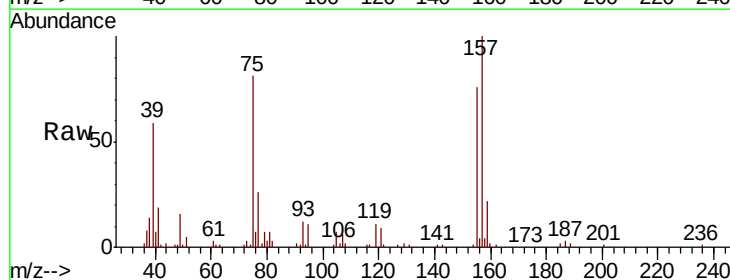
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05067

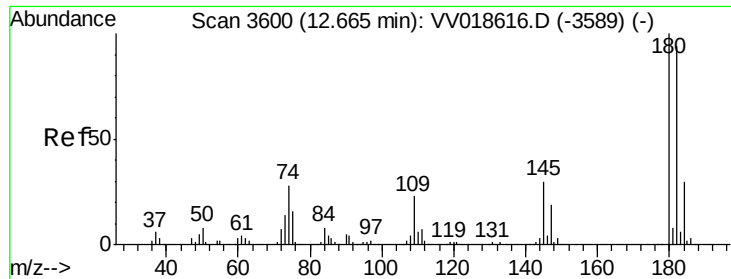
Tot Ion:146 Resp: 250351
 Ion Ratio Lower Upper
 146 100
 111 39.6 32.8 49.2
 148 62.4 51.9 77.9



#66
 1,2-Dibromo-3-chloropropane
 Concen: 41.922 ug/L
 RT: 12.45 min Scan# 3533
 Delta R.T. 0.00 min
 Lab File: VV018629.D
 Acq: 02 Oct 2020 16:41

Tgt Ion: 75 Resp: 32559
 Ion Ratio Lower Upper
 75 100
 155 93.6 73.0 109.6
 157 123.1 95.8 143.6

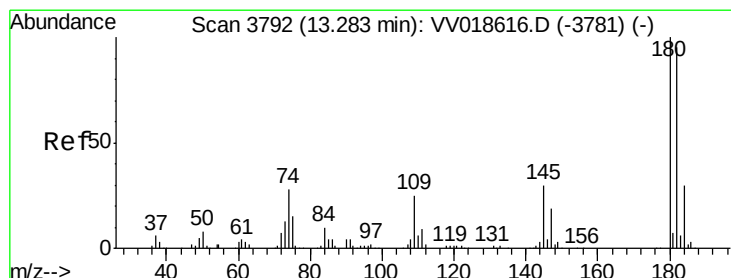
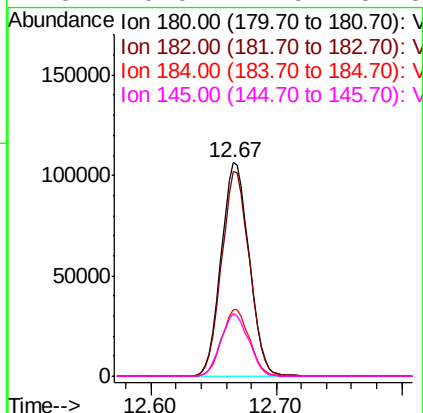
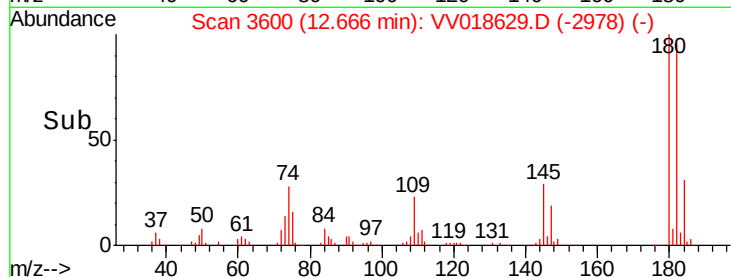
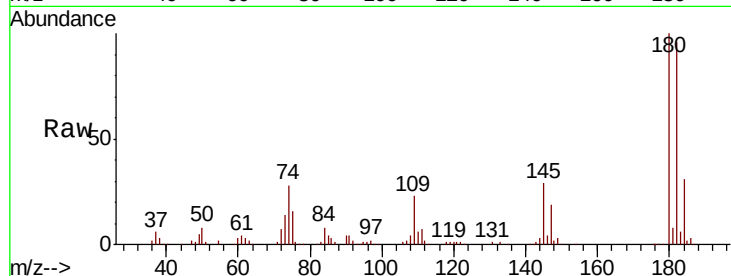




#67
 1,3,5-Trichlorobenzene
 Concen: 41.436 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VV018629.D
 Acq: 02 Oct 2020 16:41

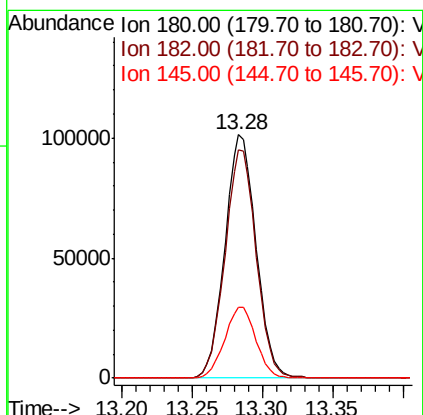
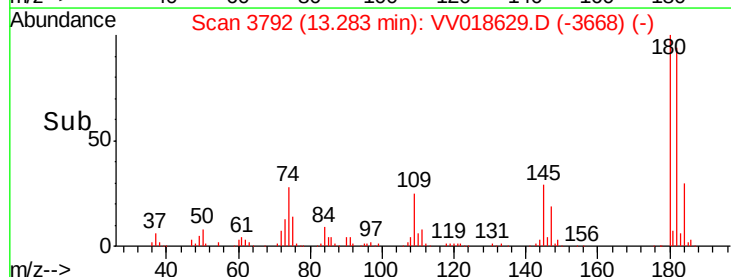
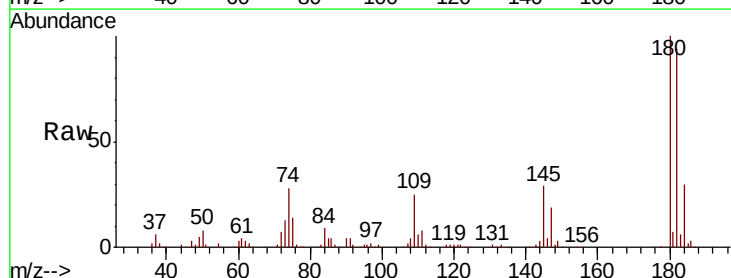
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05067

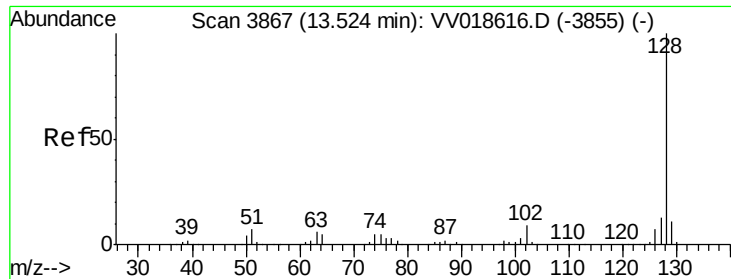
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.1	115.7
184	30.7	24.3	36.5
145	29.0	22.9	34.3



#68
 1,2,4-trichlorobenzene
 Concen: 42.094 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV018629.D
 Acq: 02 Oct 2020 16:41

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.1	76.3	114.5
145	29.3	23.6	35.4





#69

Naphthalene

Concen: 44.784 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD05067

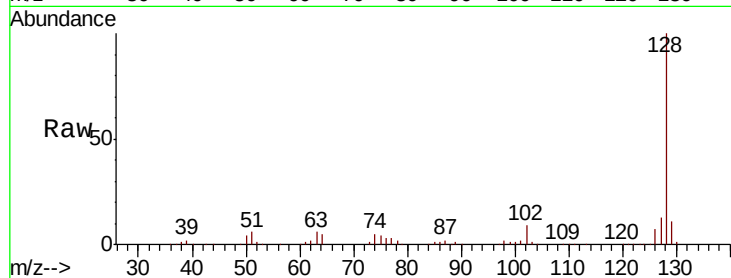
Tot Ion:128 Resp: 475206

Ion Ratio Lower Upper

128 100

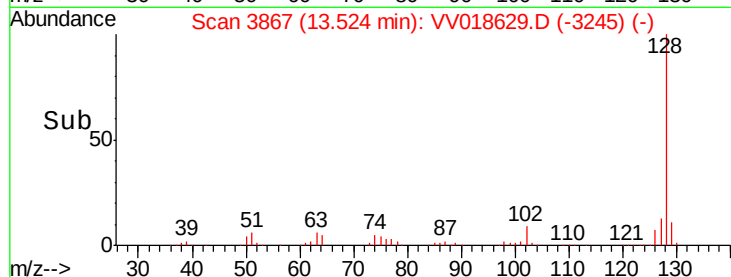
127 12.9 10.3 15.5

129 10.8 8.6 12.8

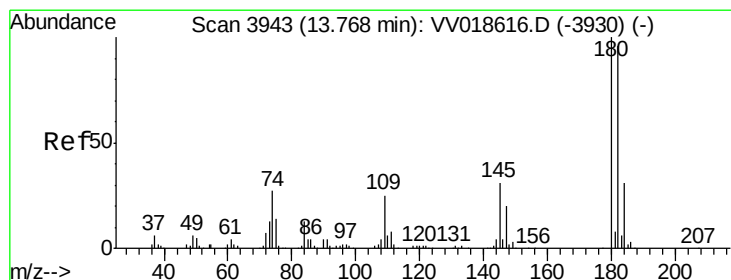


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

13.52



Time-->



#70

1,2,3-Trichlorobenzene

Concen: 41.911 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VV018629.D

Acq: 02 Oct 2020 16:41

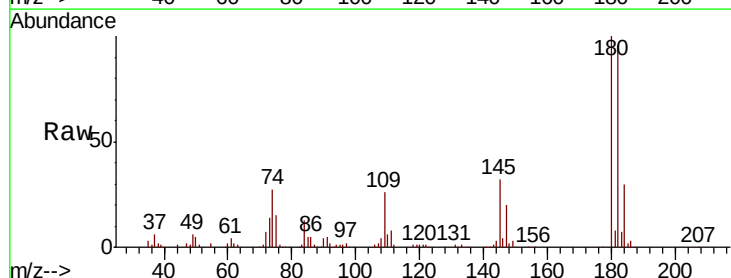
Tgt Ion:180 Resp: 155959

Ion Ratio Lower Upper

180 100

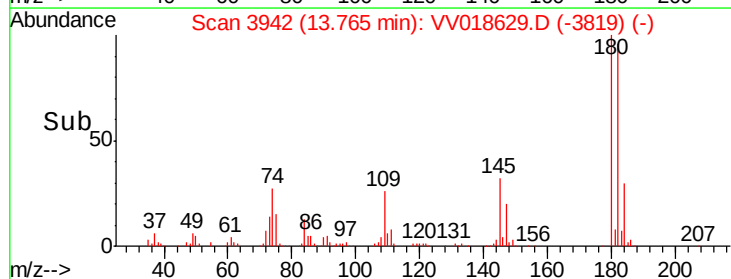
182 95.7 77.1 115.7

145 32.0 25.1 37.7



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

13.77



Time-->