

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102220\
 Data File : VV019064.D
 Acq On : 22 Oct 2020 11:57
 Operator : SY/MD
 Sample : VSTD00561
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

Quant Time: Oct 22 13:16:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 22 13:09:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	287526	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	284396	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	142108	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	13745	5.63	ug/L	0.00
7) Chloroethane-d5	1.58	69	10971	5.67	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.12	63	25064	5.45	ug/L	0.00
21) 2-Butanone-d5	3.94	46	13457	8.03	ug/L	0.03
24) Chloroform-d	4.38	84	23355	5.37	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.06	65	15546	5.37	ug/L	0.00
32) Benzene-d6	5.08	84	42766	5.06	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.10	67	13822	5.11	ug/L	0.00
41) Toluene-d8	7.34	98	36263	4.79	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.65	79	6495	4.88	ug/L	0.00
47) 2-Hexanone-d5	8.11	63	9917	9.56	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.24	84	18653	5.77	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.65	152	15371	5.24	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	11967	4.807	ug/L 98
3) Chloromethane	1.25	50	14681	5.183	ug/L 100
5) Vinyl chloride	1.32	62	14482	5.270	ug/L 99
6) Bromomethane	1.53	94	8180	4.940	ug/L 99
8) Chloroethane	1.60	64	9062	5.456	ug/L 98
9) Trichlorofluoromethane	1.76	101	18838	5.163	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	10315	5.424	ug/L 98
12) 1,1-Dichloroethene	2.13	96	10111	5.277	ug/L 91
13) Acetone	2.20	43	13585	11.215	ug/L 99
14) Carbon disulfide	2.31	76	33294	5.130	ug/L 98
15) Methyl Acetate	2.45	43	12249	4.897	ug/L 97
16) Methylene chloride	2.52	84	11919	5.217	ug/L 95
17) trans-1,2-Dichloroethene	2.78	96	10222	4.868	ug/L 99
18) Methyl tert-butyl Ether	2.78	73	31209	4.677	ug/L 98
19) 1,1-Dichloroethane	3.21	63	21341	5.184	ug/L 99
20) cis-1,2-Dichloroethene	3.94	96	10968	4.934	ug/L 88
22) 2-Butanone	4.02	43	4551	2.775	ug/L 84
23) Bromochloromethane	4.28	128	2307	2.004	ug/L 84
25) Chloroform	4.41	83	21113	5.130	ug/L 98
27) 1,2-Dichloroethane	5.16	62	16564	4.899	ug/L 99
29) Cyclohexane	4.70	56	15497	4.493	ug/L 96
30) 1,1,1-Trichloroethane	4.63	97	17917	5.020	ug/L 98
31) Carbon tetrachloride	4.86	117	15969	5.242	ug/L 95
33) Benzene	5.13	78	43275	4.925	ug/L 100
34) Trichloroethene	5.94	95	11257	4.536	ug/L 90
35) Methylcyclohexane	6.15	83	14153	4.551	ug/L 96
37) 1,2-Dichloropropane	6.20	63	12455	5.305	ug/L # 93
38) Bromodichloromethane	6.53	83	15529	5.149	ug/L 94
39) cis-1,3-Dichloropropene	7.05	75	15801	4.453	ug/L 92
40) 4-Methyl-2-pentanone	7.25	43	27532	8.498	ug/L 98

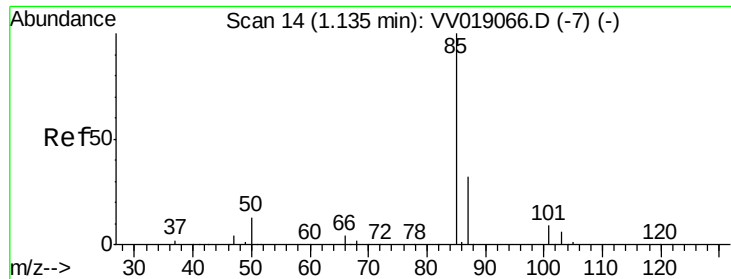
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102220\
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 Quant Title : VOC Analysis
 QLast Update : Thu Oct 22 13:09:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.41	91	42742	4.733	ug/L	98
44) trans-1,3-Dichloropropene	7.68	75	15542	4.530	ug/L	93
45) 1,1,2-Trichloroethane	7.86	97	10945	5.036	ug/L	91
46) Tetrachloroethene	8.00	164	8811	4.952	ug/L	91
48) 2-Hexanone	8.16	43	20187	7.886	ug/L #	96
49) Dibromochloromethane	8.27	129	11005	4.750	ug/L	99
50) 1,2-Dibromoethane	8.38	107	10774	4.762	ug/L	100
51) Chlorobenzene	8.90	112	28959	4.920	ug/L	98
52) Ethylbenzene	9.03	91	44507	4.550	ug/L	98
53) m,p-Xylene	9.16	106	15736	4.313	ug/L	100
54) o-xylene	9.56	106	14611	4.192	ug/L	99
55) Styrene	9.59	104	24994	4.070	ug/L	95
56) Isopropylbenzene	9.95	105	39835	4.348	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.26	83	17645	5.771	ug/L	97
59) 1,2,3-Trichloropropane	10.30	75	13867	4.887	ug/L	100
61) Bromoform	9.75	173	7820	4.980	ug/L	100
62) 1,3-Dichlorobenzene	11.20	146	21109	4.770	ug/L	96
63) 1,4-Dichlorobenzene	11.29	146	22661	4.883	ug/L	99
65) 1,2-Dichlorobenzene	11.67	146	22010	4.948	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.45	75	3623	5.272	ug/L	96
67) 1,3,5-Trichlorobenzene	12.67	180	14665	4.946	ug/L	99
68) 1,2,4-trichlorobenzene	13.29	180	12861	4.691	ug/L	98
69) Naphthalene	13.52	128	33690	4.245	ug/L	98
70) 1,2,3-Trichlorobenzene	13.77	180	13371	4.879	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 4.807 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

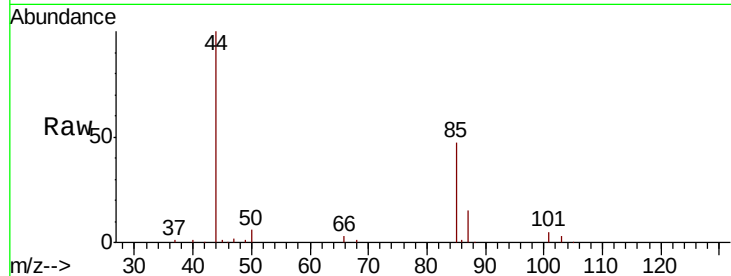
VSTD00561

Tot Ion: 85 Resp: 11967

Ion Ratio Lower Upper

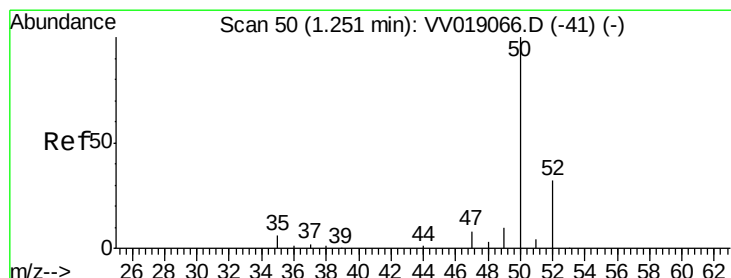
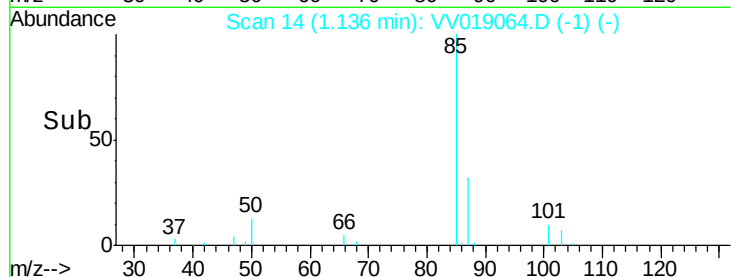
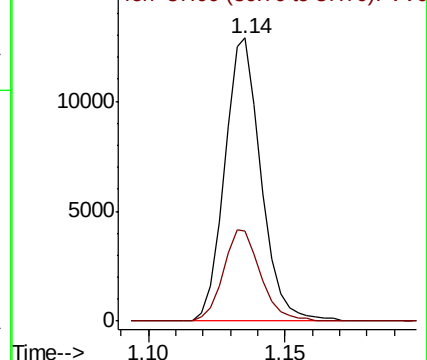
85 100

87 32.9 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VV019066.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV019066.D (-7) (-)



#3

Chloromethane

Concen: 5.183 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV019064.D

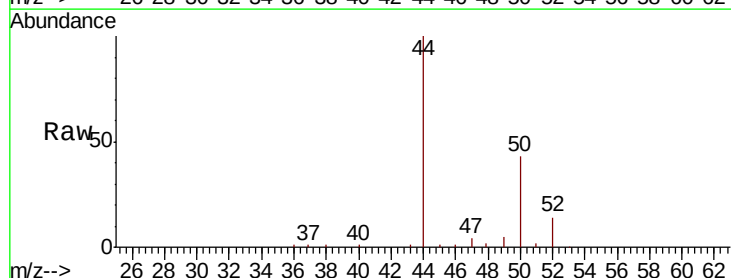
Acq: 22 Oct 2020 11:57

Tgt Ion: 50 Resp: 14681

Ion Ratio Lower Upper

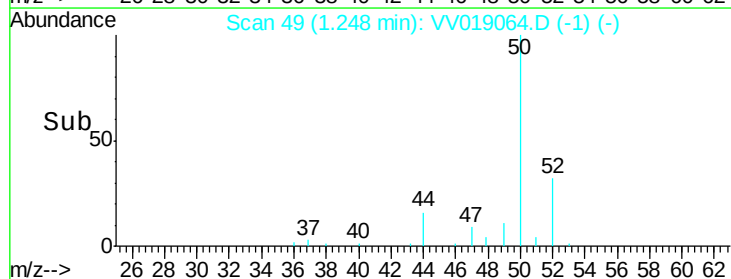
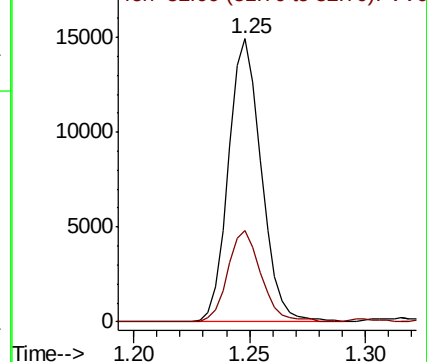
50 100

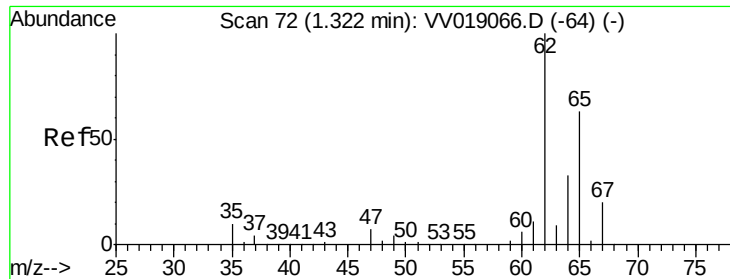
52 32.2 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV019066.D (-41) (-)

Ion 52.00 (51.70 to 52.70): VV019066.D (-41) (-)





#5

Vinyl chloride

Concen: 5.270 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

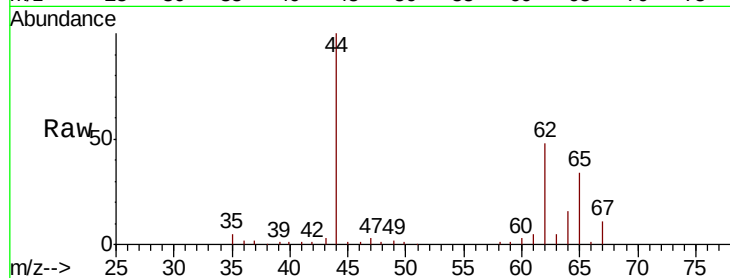
VSTD00561

Tot Ion: 62 Resp: 14482

Ion Ratio Lower Upper

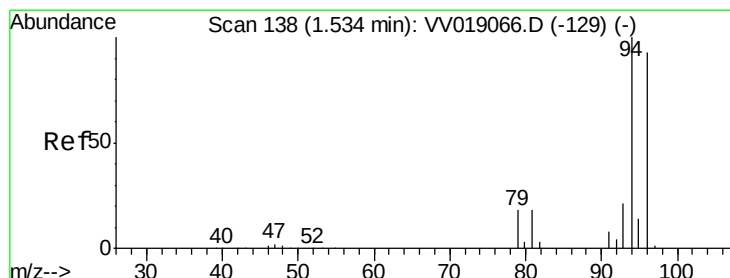
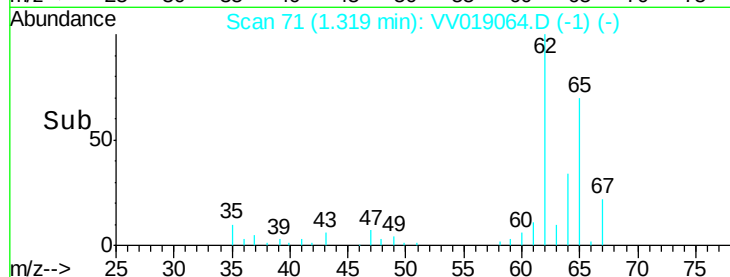
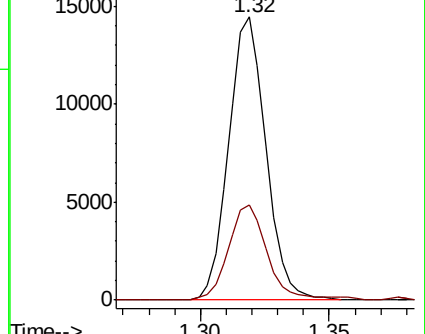
62 100

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: 4.940 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV019064.D

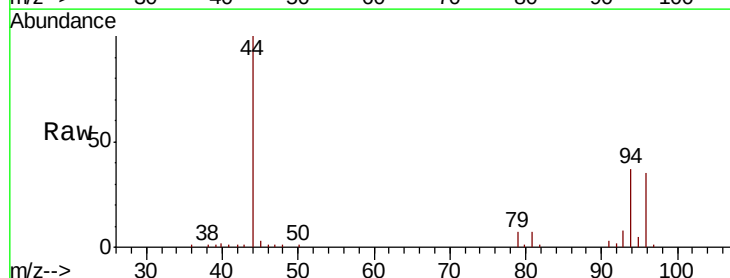
Acq: 22 Oct 2020 11:57

Tgt Ion: 94 Resp: 8180

Ion Ratio Lower Upper

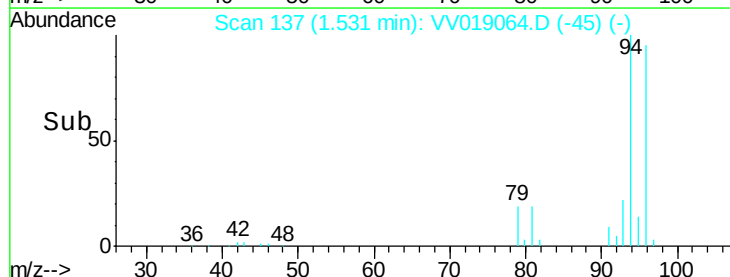
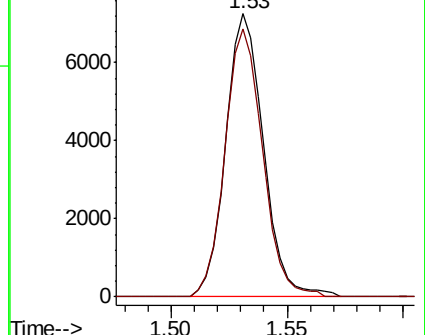
94 100

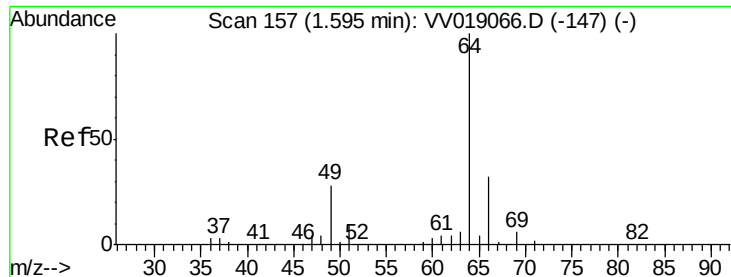
96 94.6 65.3 121.3



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

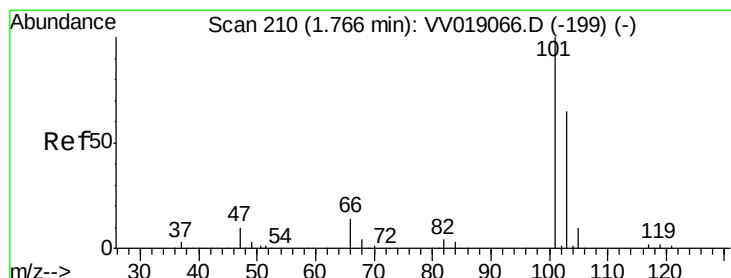
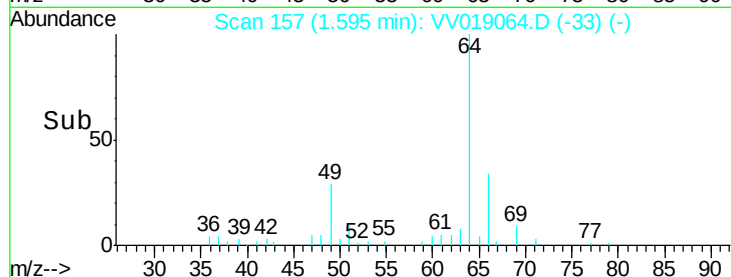
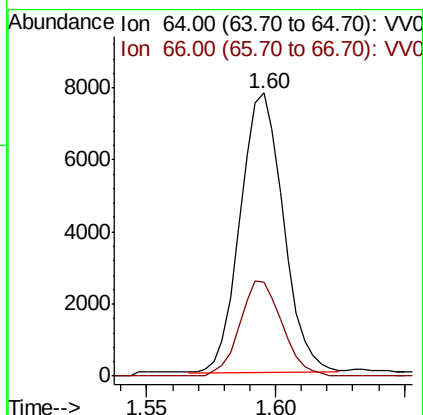
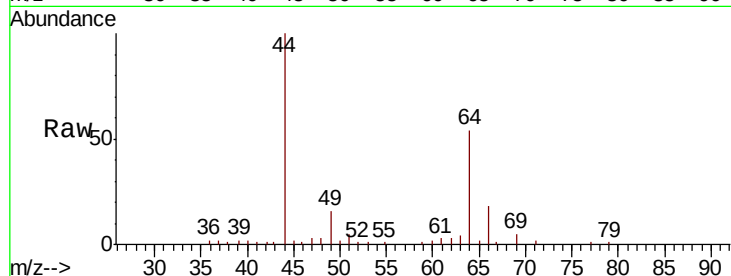




#8
Chloroethane
Concen: 5.456 ug/L
RT: 1.60 min Scan# 157
Delta R.T. 0.00 min
Lab File: VV019064.D
Acq: 22 Oct 2020 11:57

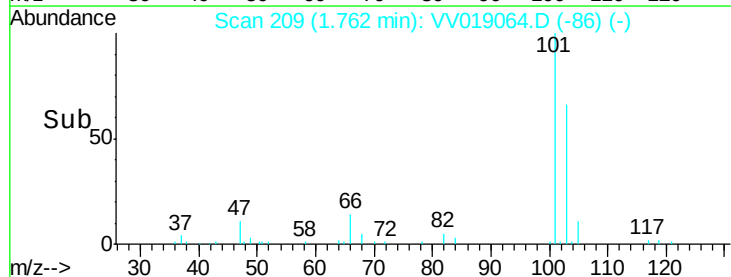
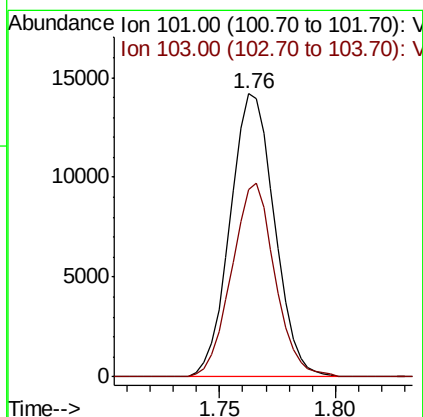
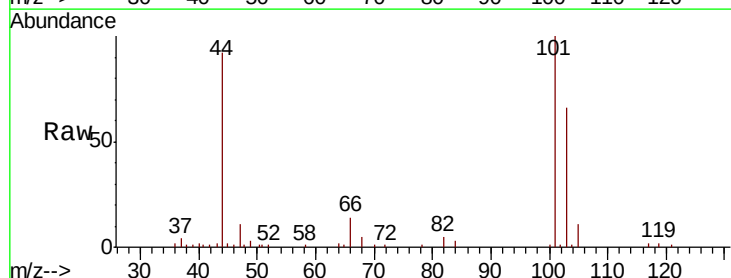
Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

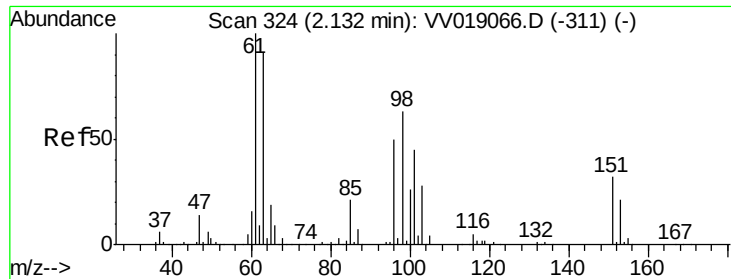
Tot Ion: 64 Resp: 9062
Ion Ratio Lower Upper
64 100
66 33.4 22.5 41.9



#9
Trichlorofluoromethane
Concen: 5.163 ug/L
RT: 1.76 min Scan# 209
Delta R.T. -0.00 min
Lab File: VV019064.D
Acq: 22 Oct 2020 11:57

Tgt Ion: 101 Resp: 18838
Ion Ratio Lower Upper
101 100
103 66.6 51.7 77.5





#10

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

Concen: 5.424 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

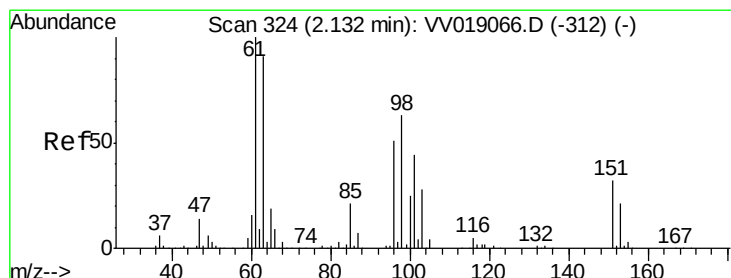
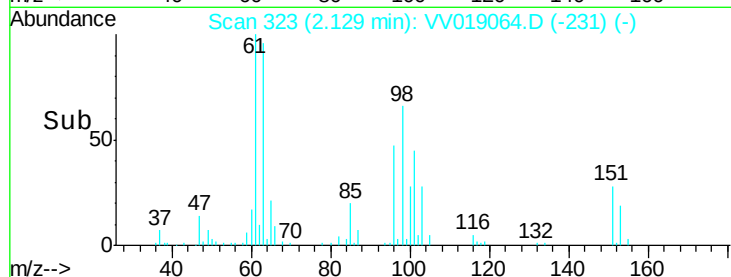
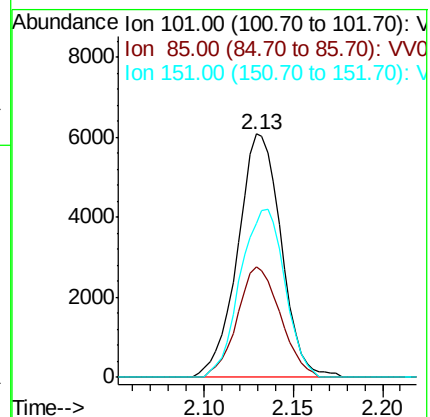
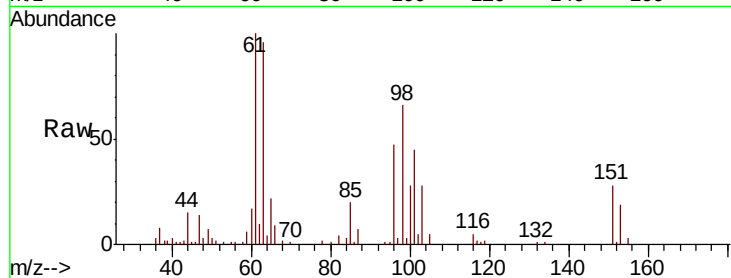
Tot Ion:101 Resp: 10315

Ion Ratio Lower Upper

101 100

85 45.0 36.9 55.3

151 70.8 58.2 87.2



#12

1,1-Dichloroethene

Concen: 5.277 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

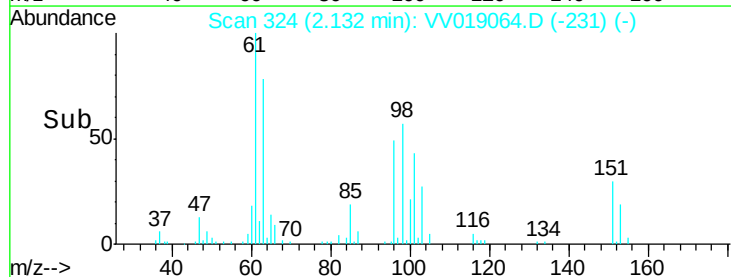
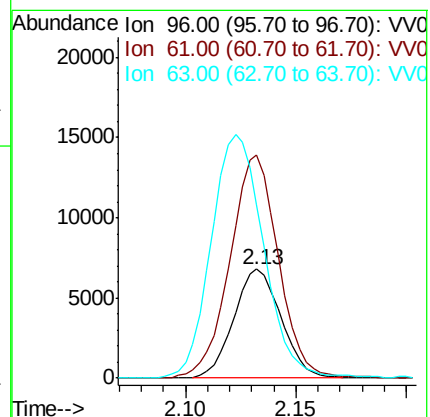
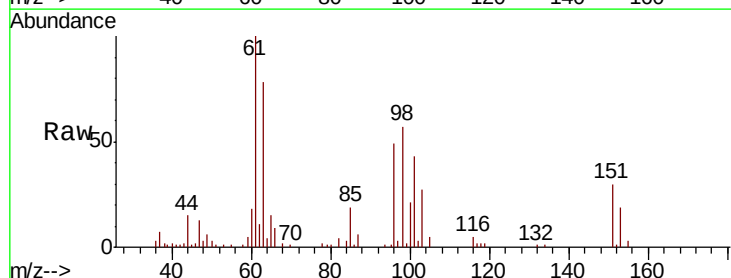
Tgt Ion: 96 Resp: 10111

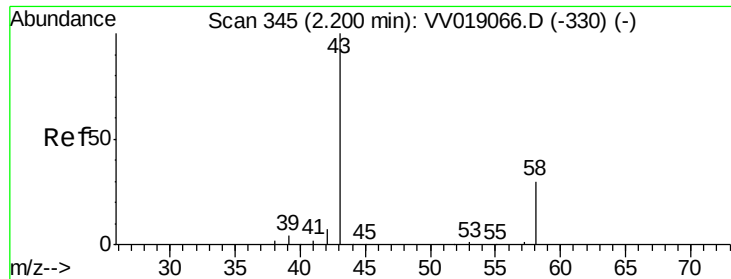
Ion Ratio Lower Upper

96 100

61 204.3 138.7 257.7

63 158.6 126.3 234.6





#13

Acetone

Concen: 11.215 ug/L

RT: 2.20 min Scan# 345

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampled :

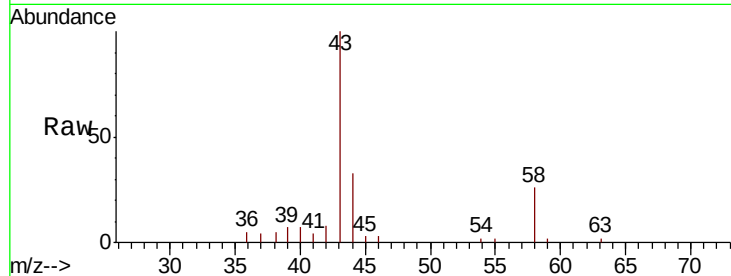
VSTD00561

Tot Ion: 43 Resp: 13585

Ion Ratio Lower Upper

43 100

58 30.7 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VV019066.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV019066.D (-330) (-)

2.20

6000

5000

4000

3000

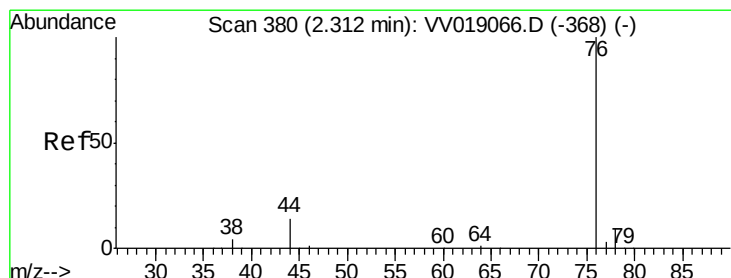
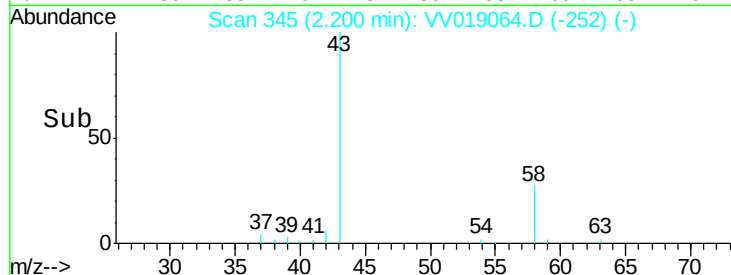
2000

1000

0

Time-->

2.10 2.15 2.20 2.25 2.30



#14

Carbon disulfide

Concen: 5.130 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV019064.D

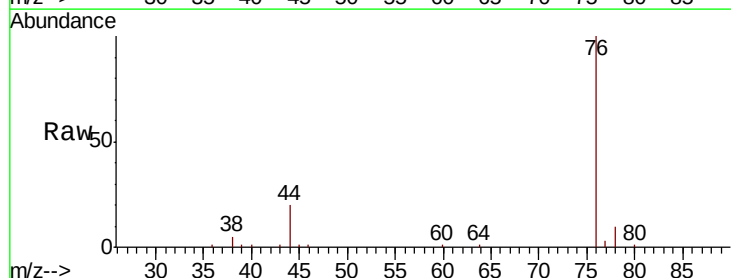
Acq: 22 Oct 2020 11:57

Tgt Ion: 76 Resp: 33294

Ion Ratio Lower Upper

76 100

78 9.8 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019066.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV019066.D (-368) (-)

2.31

25000

20000

15000

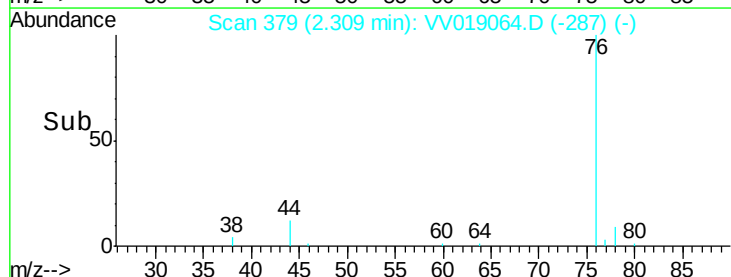
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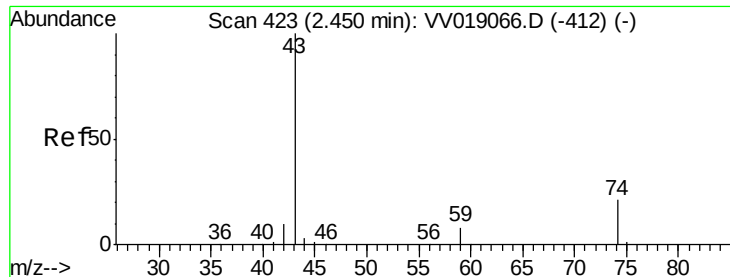
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0

Time-->

2.25 2.30 2.35

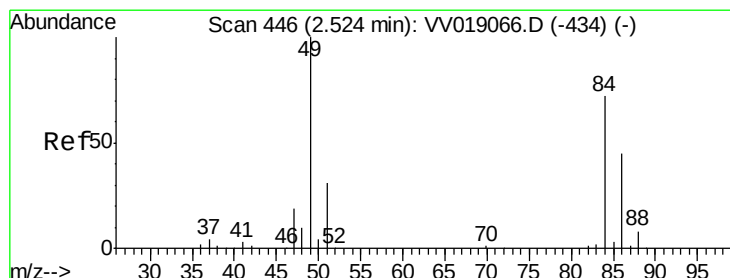
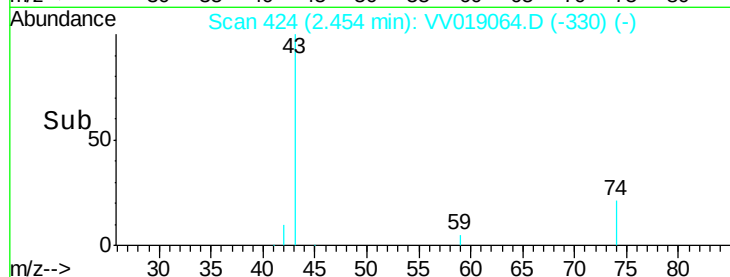
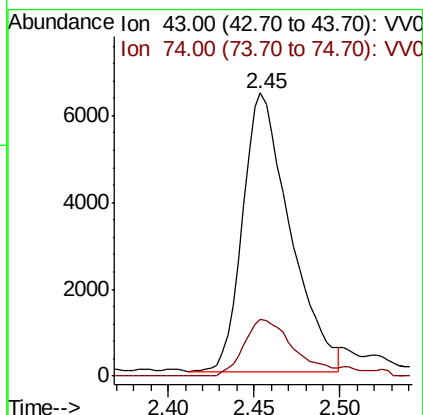
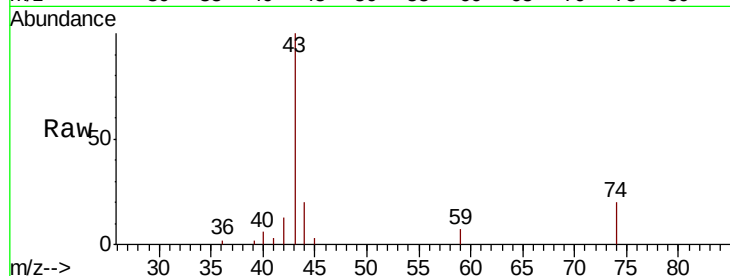




#15
Methvl Acetate
Concen: 4.897 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.00 min
Lab File: VV019064.D
Acq: 22 Oct 2020 11:57

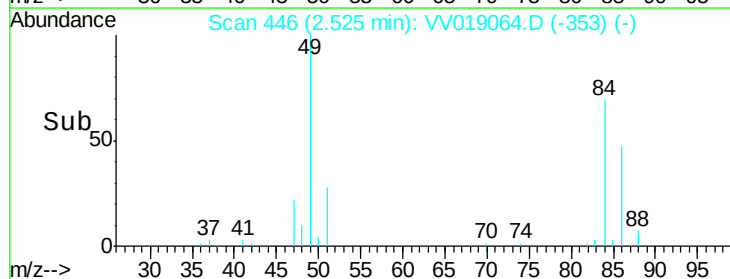
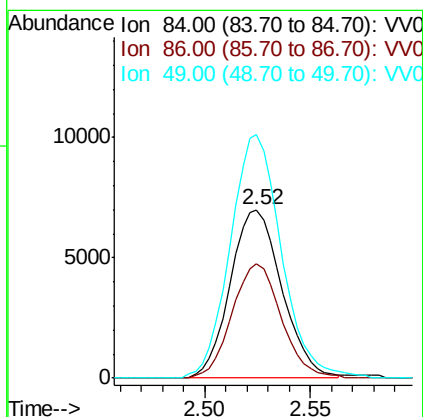
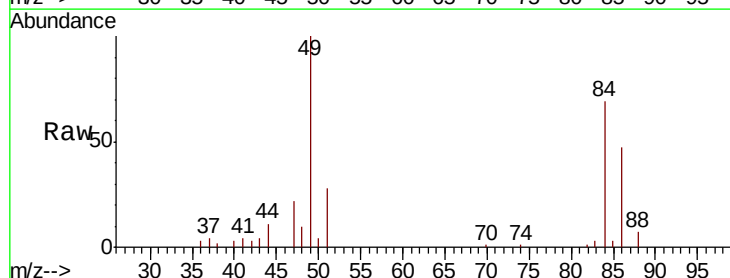
Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

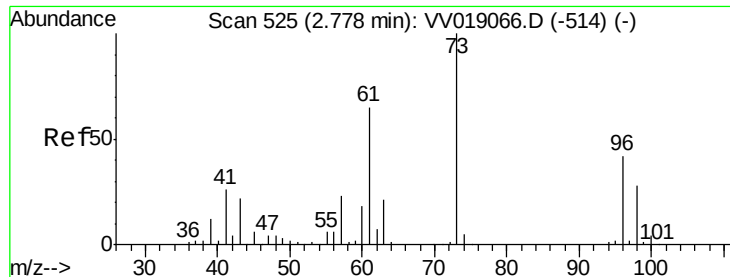
Tot Ion: 43 Resp: 12249
Ion Ratio Lower Upper
43 100
74 21.7 16.4 24.6



#16
Methylene chloride
Concen: 5.217 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV019064.D
Acq: 22 Oct 2020 11:57

Tgt Ion: 84 Resp: 11919
Ion Ratio Lower Upper
84 100
86 67.9 44.2 82.2
49 144.8 98.0 182.0

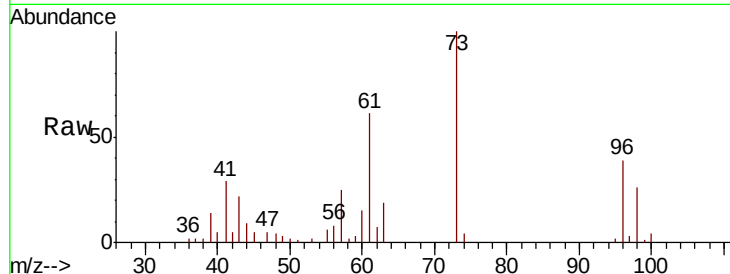




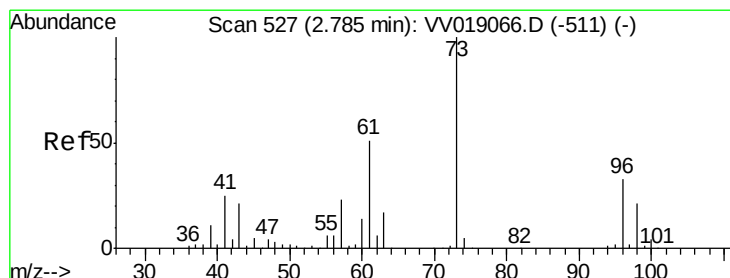
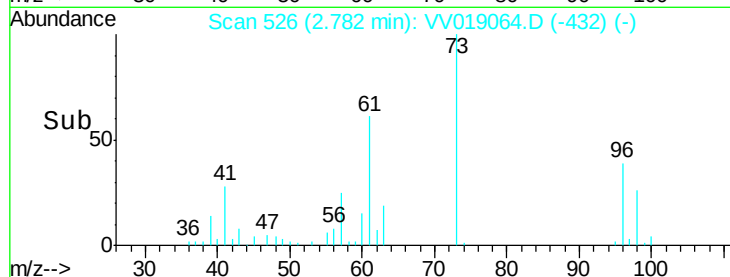
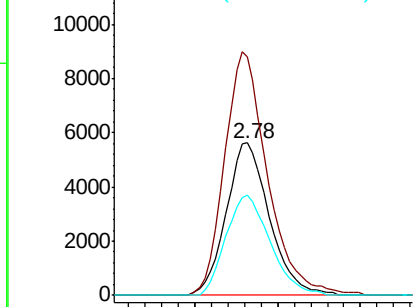
#17
trans-1,2-Dichloroethene
Concen: 4.868 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.00 min
Lab File: VV019064.D
Acq: 22 Oct 2020 11:57

Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

Tot Ion: 96 Resp: 10222
Ion Ratio Lower Upper
96 100
61 156.5 108.6 201.8
98 65.4 45.7 84.9

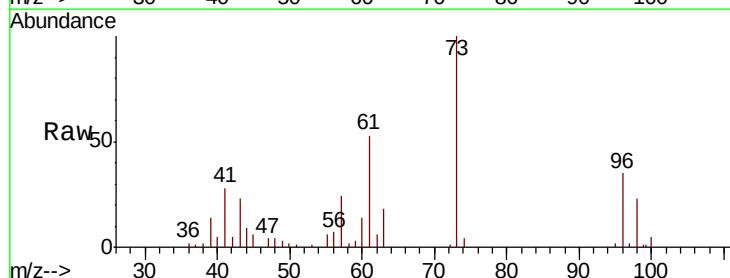


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

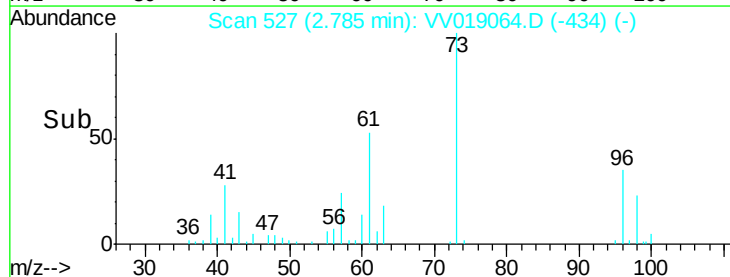
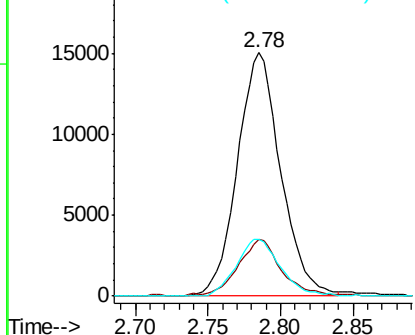


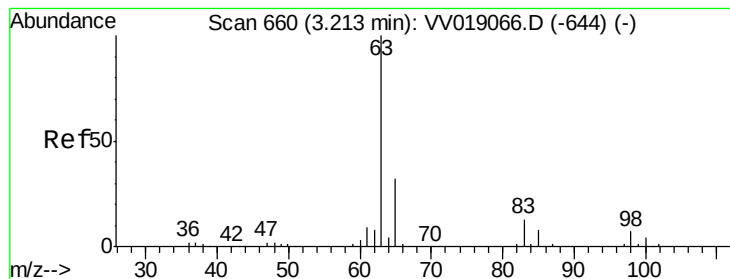
#18
Methyl tert-butyl Ether
Concen: 4.677 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV019064.D
Acq: 22 Oct 2020 11:57

Tgt Ion: 73 Resp: 31209
Ion Ratio Lower Upper
73 100
43 22.9 17.2 25.8
57 23.4 18.5 27.7



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: 5.184 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

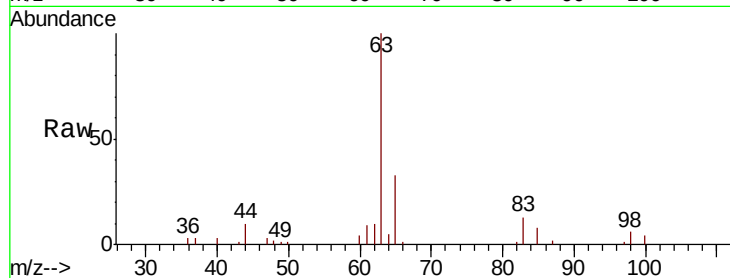
Tot Ion: 63 Resp: 21341

Ion Ratio Lower Upper

63 100

65 32.8 22.7 42.1

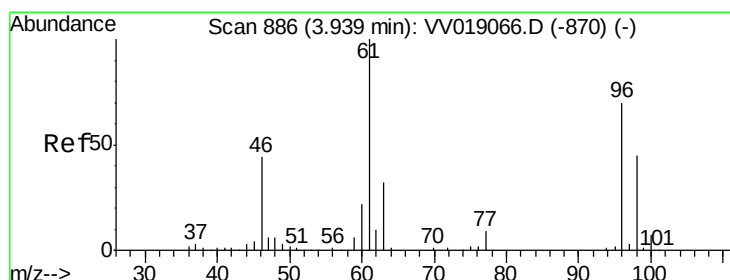
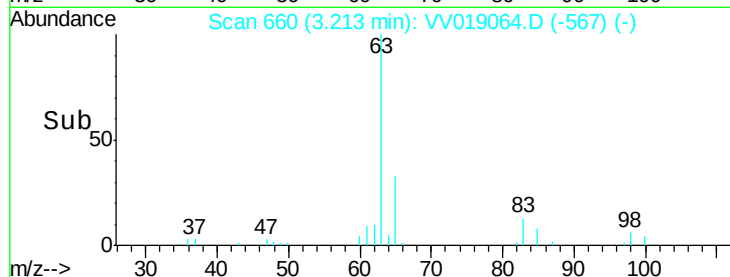
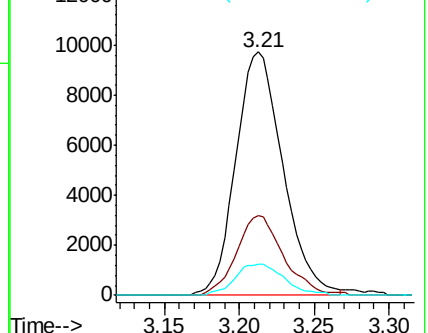
83 12.6 9.0 16.8



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: 4.934 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

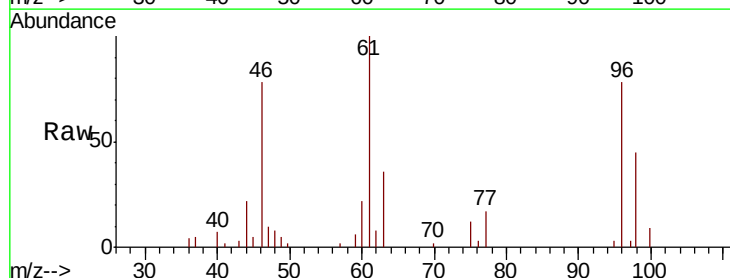
Tgt Ion: 96 Resp: 10968

Ion Ratio Lower Upper

96 100

61 127.6 99.4 184.6

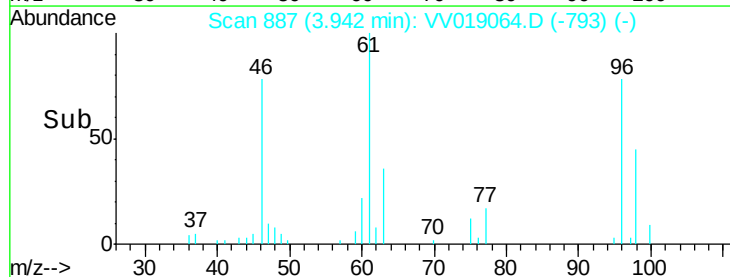
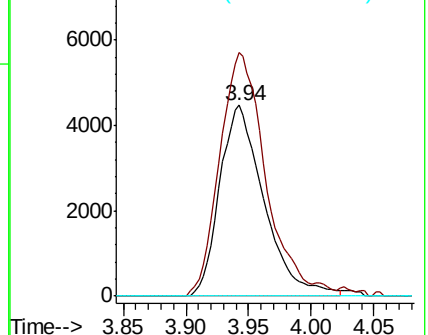
68 0.0 0.0 0.0

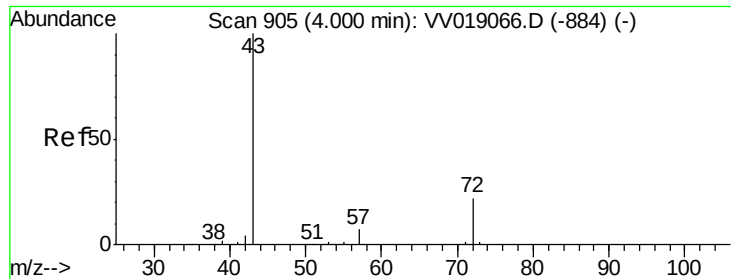


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 2.775 ug/L

RT: 4.02 min Scan# 911

Delta R.T. 0.02 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

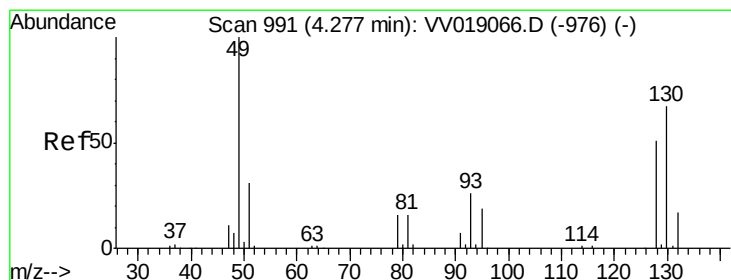
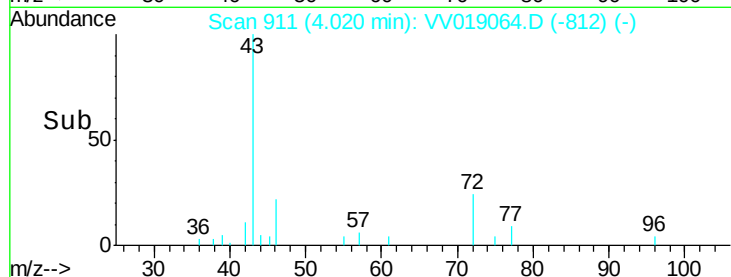
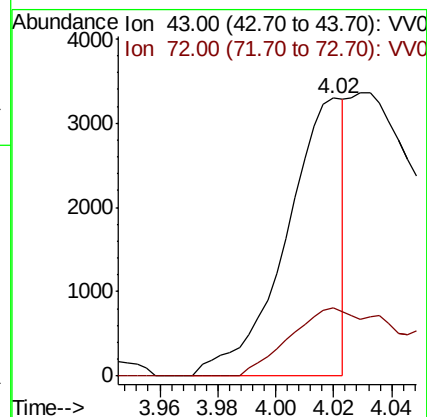
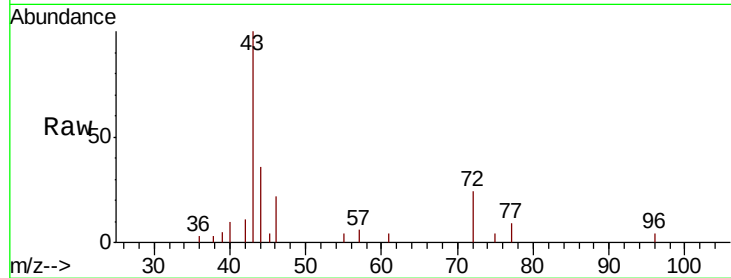
VSTD00561

Tot Ion: 43 Resp: 4551

Ion Ratio Lower Upper

43 100

72 29.0 10.8 32.4



#23

Bromochloromethane

Concen: 2.004 ug/L

RT: 4.28 min Scan# 991

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Tgt Ion: 128 Resp: 2307

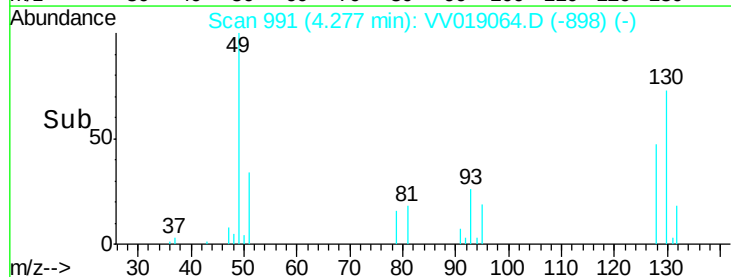
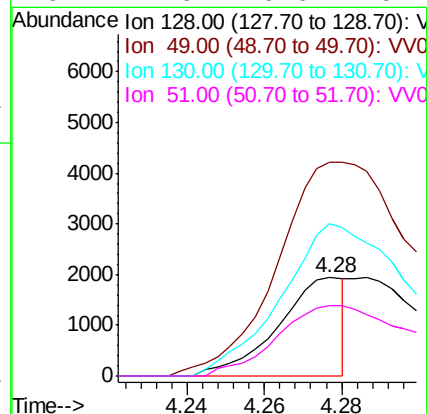
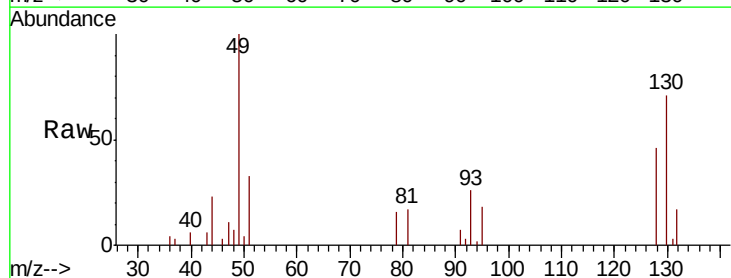
Ion Ratio Lower Upper

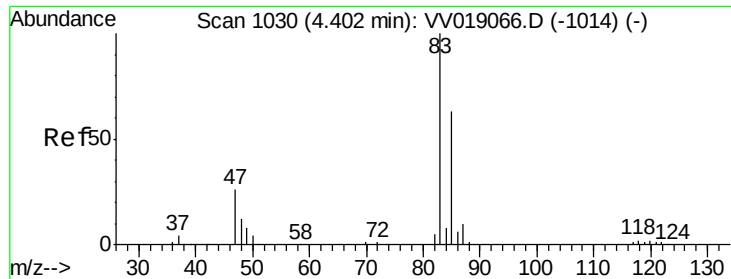
128 100

49 217.7 137.1 254.5

130 154.7 92.0 170.9

51 71.6 49.0 73.4

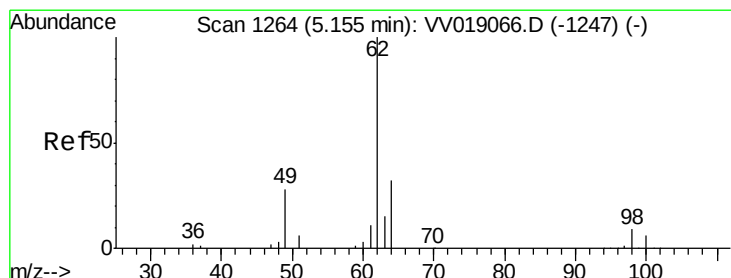
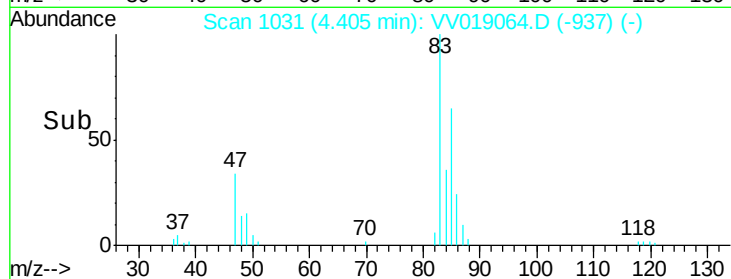
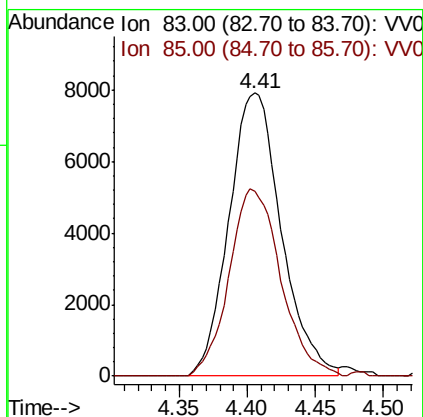
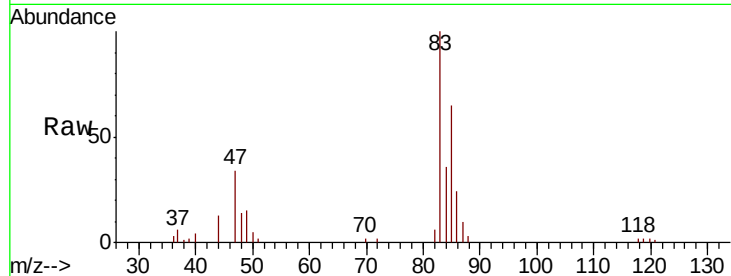




#25
 Chloroform
 Concen: 5.130 ug/L
 RT: 4.41 min Scan# 1031
 Delta R.T. 0.00 min
 Lab File: VV019064.D
 Acq: 22 Oct 2020 11:57

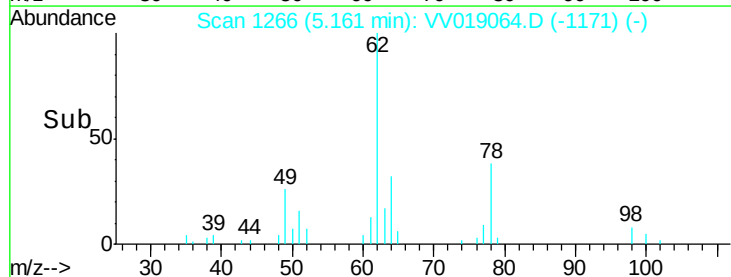
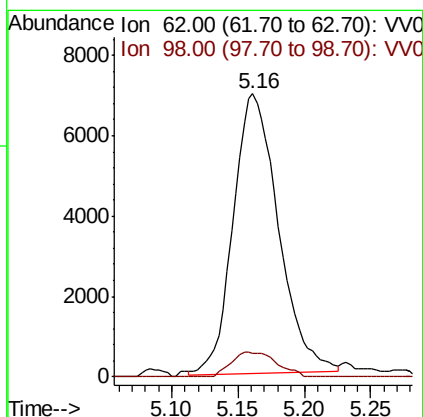
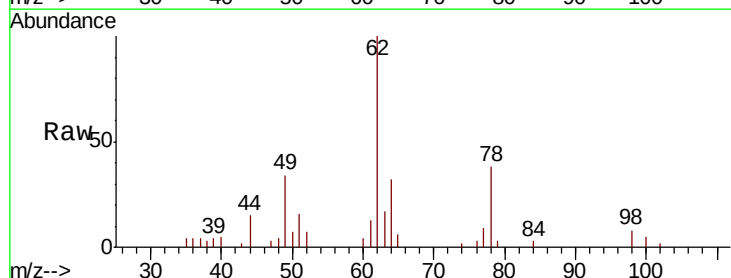
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

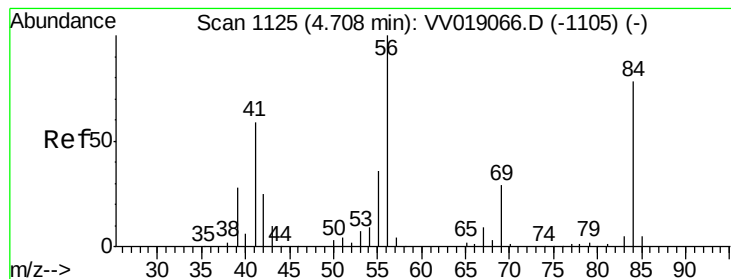
Tot Ion: 83 Resp: 21113
 Ion Ratio Lower Upper
 83 100
 85 65.5 44.5 82.7



#27
 1,2-Dichloroethane
 Concen: 4.899 ug/L
 RT: 5.16 min Scan# 1266
 Delta R.T. 0.01 min
 Lab File: VV019064.D
 Acq: 22 Oct 2020 11:57

Tgt Ion: 62 Resp: 16564
 Ion Ratio Lower Upper
 62 100
 98 8.4 6.9 10.3





#29

Cyclohexane

Concen: 4.493 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. -0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

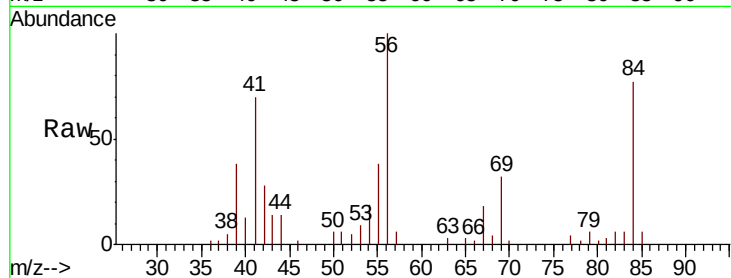
Tot Ion: 56 Resp: 15497

Ion Ratio Lower Upper

56 100

69 32.4 22.7 34.1

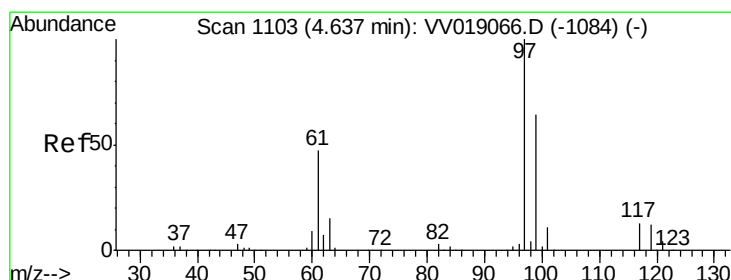
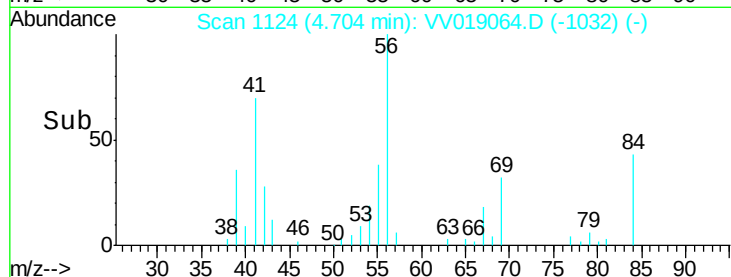
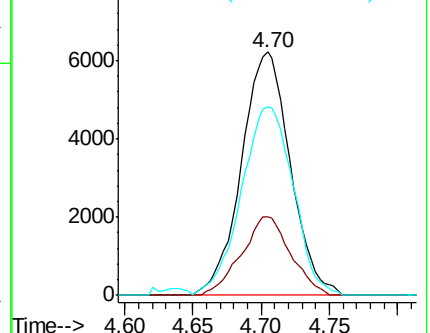
84 82.2 63.5 95.3



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: 5.020 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

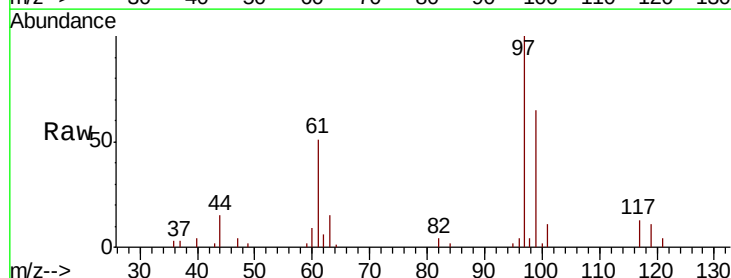
Tgt Ion: 97 Resp: 17917

Ion Ratio Lower Upper

97 100

99 63.0 50.5 75.7

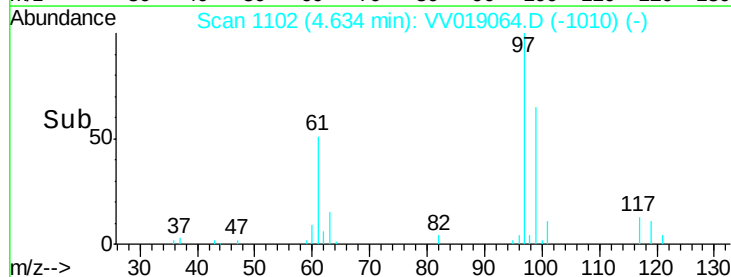
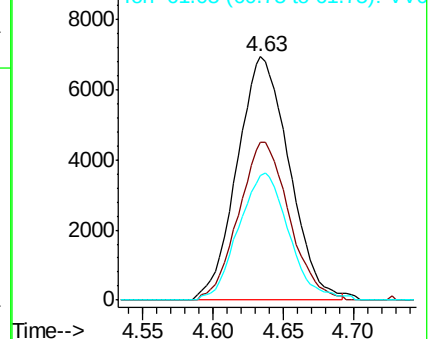
61 50.1 38.1 57.1

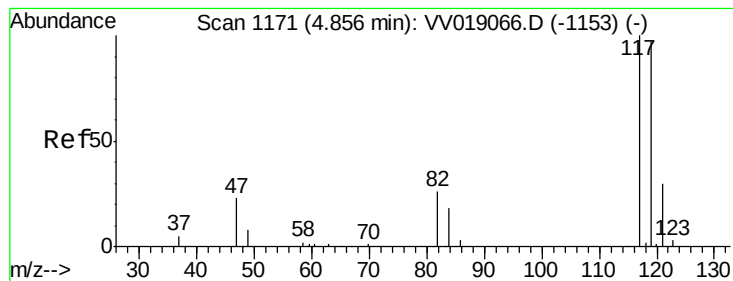


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 5.242 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

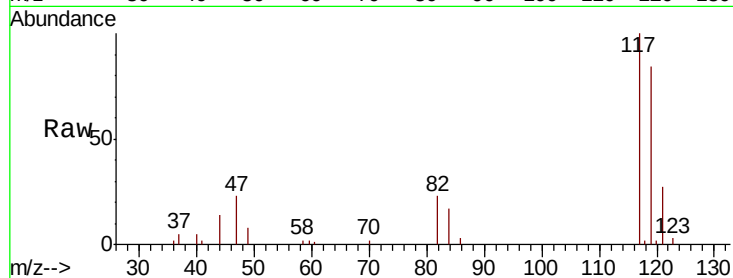
VSTD00561

Tot Ion:117 Resp: 15969

Ion Ratio Lower Upper

117 100

119 91.7 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.86

8000

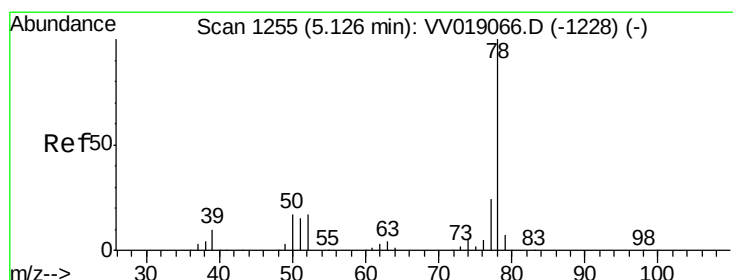
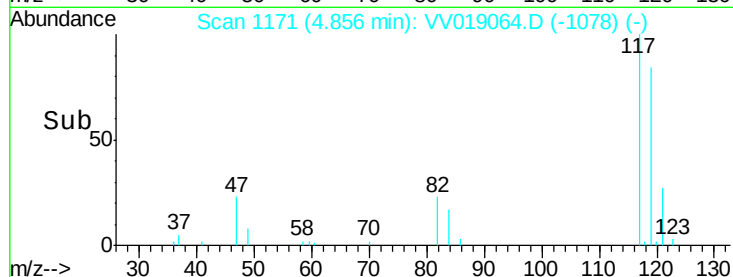
6000

4000

2000

0

Time--> 4.75 4.80 4.85 4.90 4.95



#33

Benzene

Concen: 4.925 ug/L

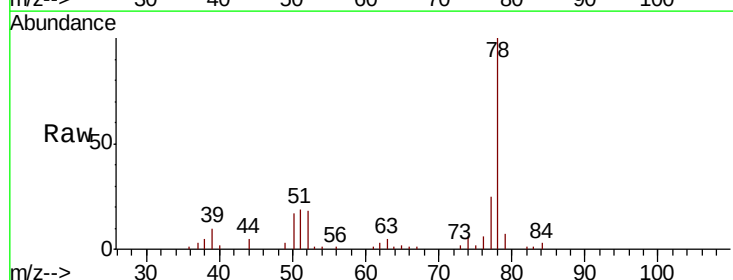
RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Tgt Ion: 78 Resp: 43275



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.13

20000

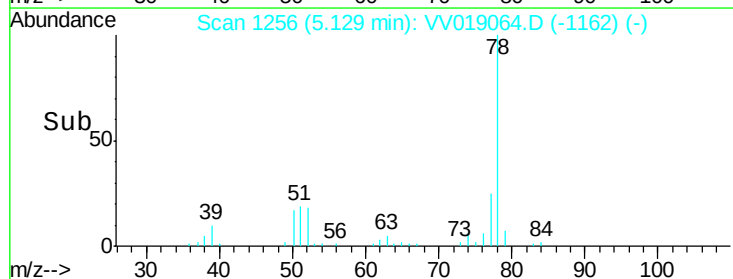
15000

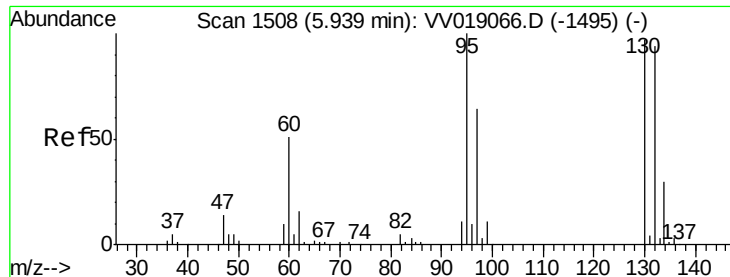
10000

5000

0

Time--> 5.00 5.10 5.20





#34

Trichloroethene

Concen: 4.536 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

Tot Ion: 95 Resp: 11257

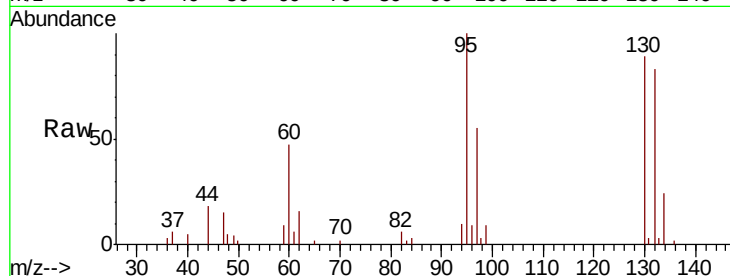
Ion Ratio Lower Upper

95 100

97 55.1 44.6 82.8

132 83.4 66.0 122.6

130 89.2 67.6 125.6

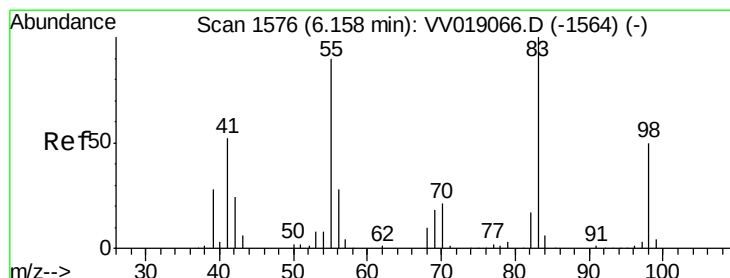
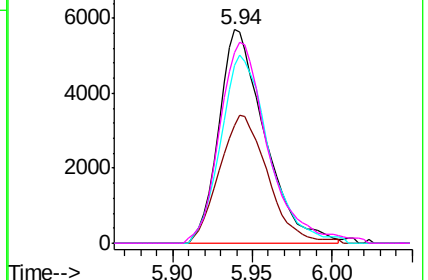
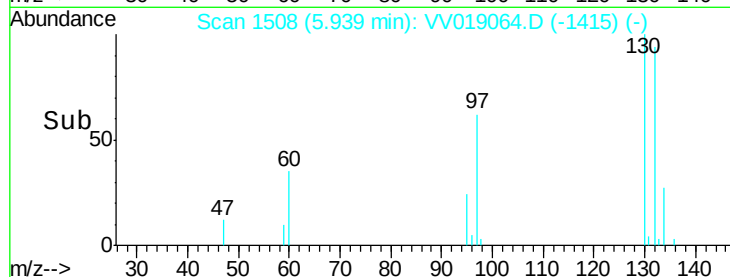


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 4.551 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

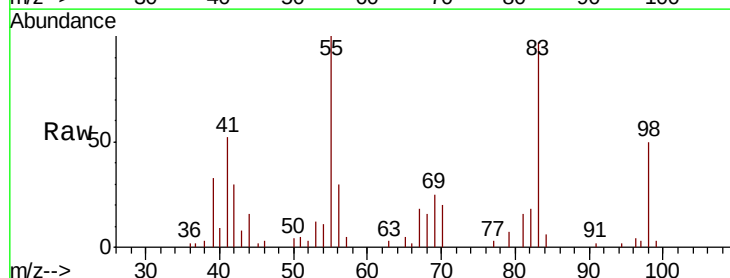
Tgt Ion: 83 Resp: 14153

Ion Ratio Lower Upper

83 100

55 91.0 68.1 102.1

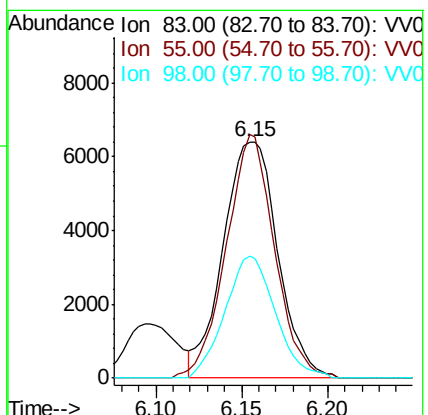
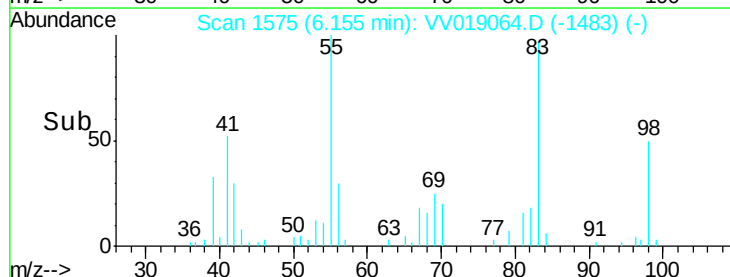
98 47.6 37.9 56.9

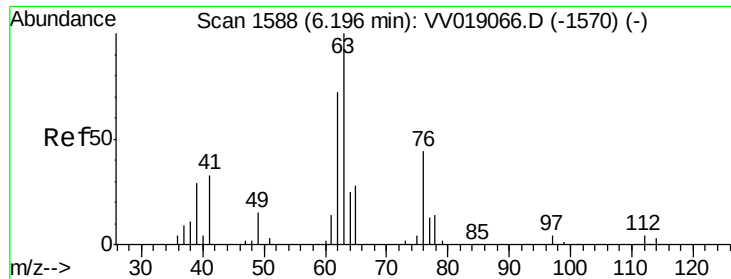


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

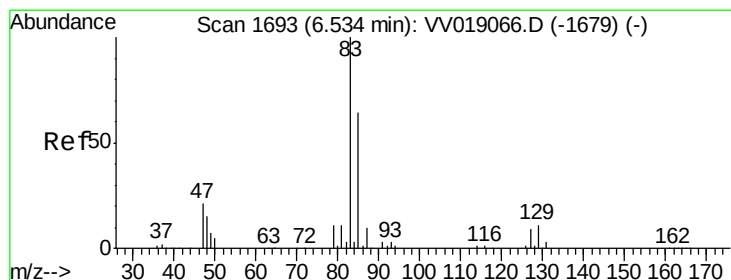
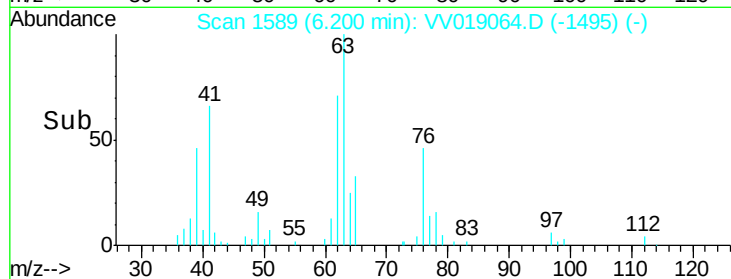
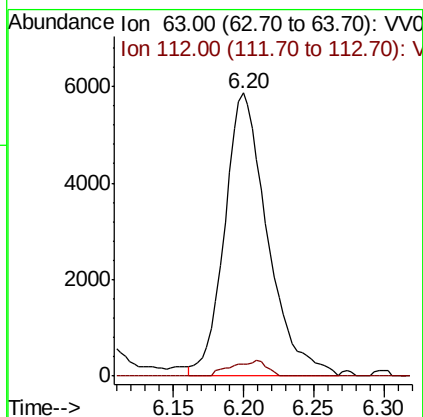
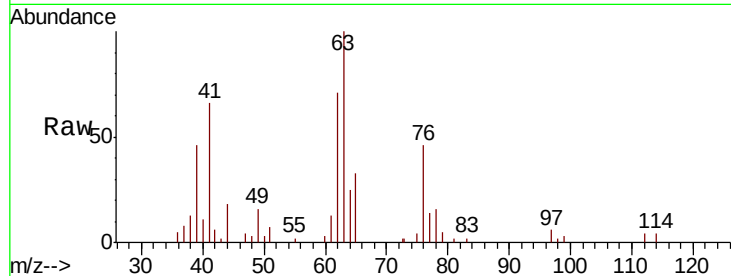




#37
 1,2-Dichloropropane
 Concen: 5.305 ug/L
 RT: 6.20 min Scan# 1589
 Delta R.T. 0.00 min
 Lab File: VV019064.D
 Acq: 22 Oct 2020 11:57

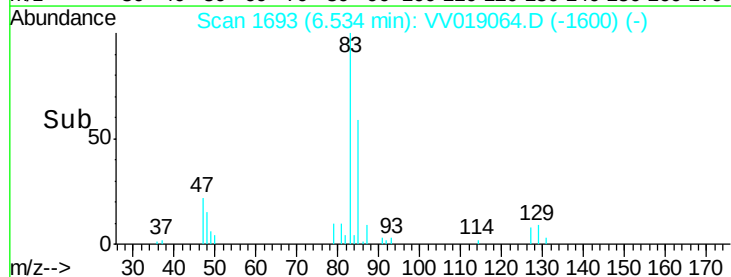
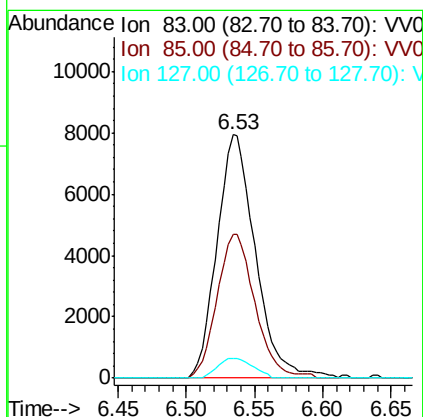
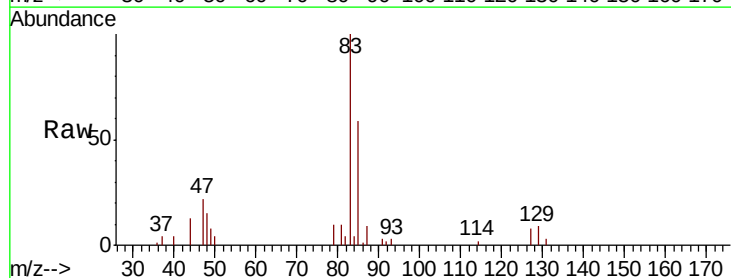
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

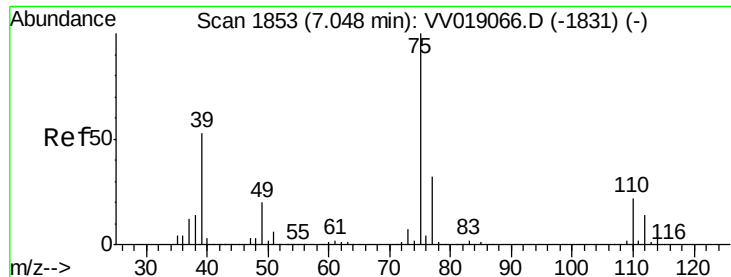
Tot Ion: 63 Resp: 12455
 Ion Ratio Lower Upper
 63 100
 112 2.0 3.5 5.3#



#38
 Bromodichloromethane
 Concen: 5.149 ug/L
 RT: 6.53 min Scan# 1693
 Delta R.T. 0.00 min
 Lab File: VV019064.D
 Acq: 22 Oct 2020 11:57

Tgt Ion: 83 Resp: 15529
 Ion Ratio Lower Upper
 83 100
 85 58.9 44.9 83.3
 127 8.3 7.0 10.4

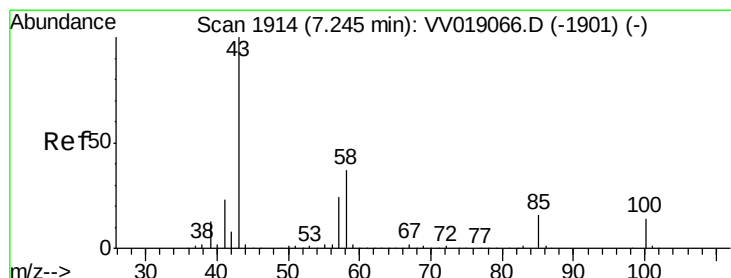
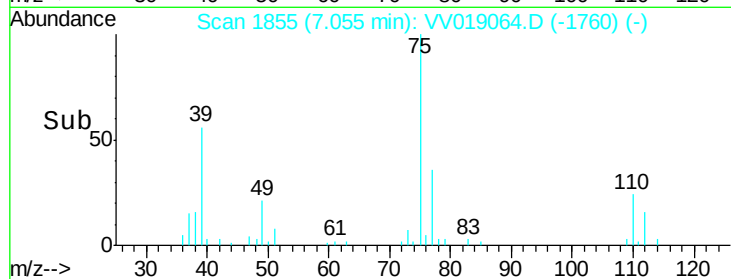
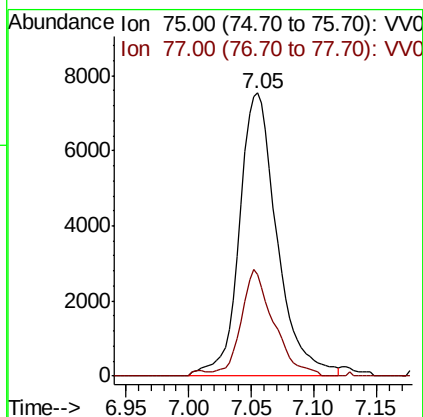
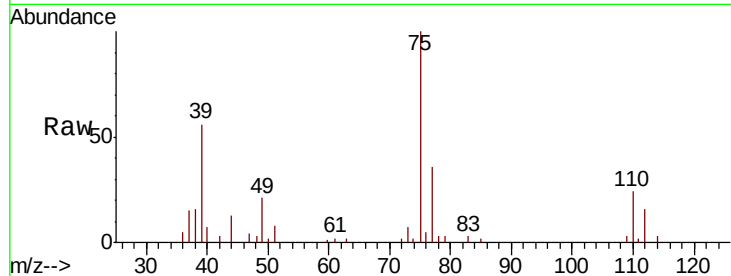




#39
 cis-1,3-Dichloropropene
 Concen: 4.453 ug/L
 RT: 7.05 min Scan# 1855
 Delta R.T. 0.01 min
 Lab File: VV019064.D
 Acq: 22 Oct 2020 11:57

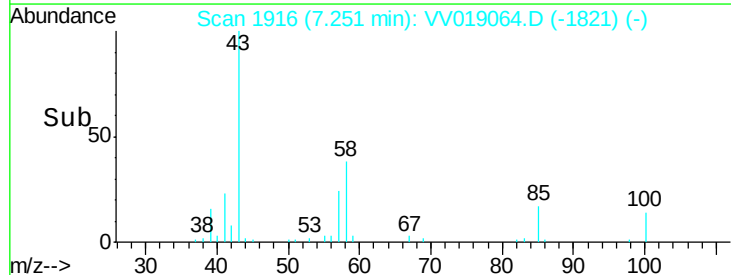
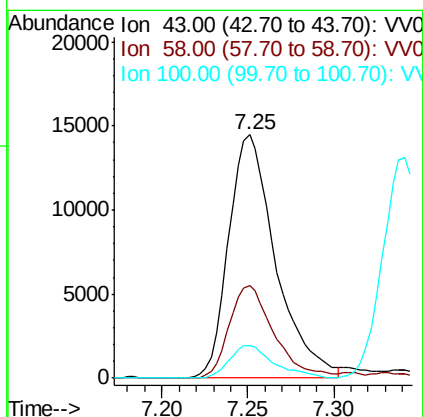
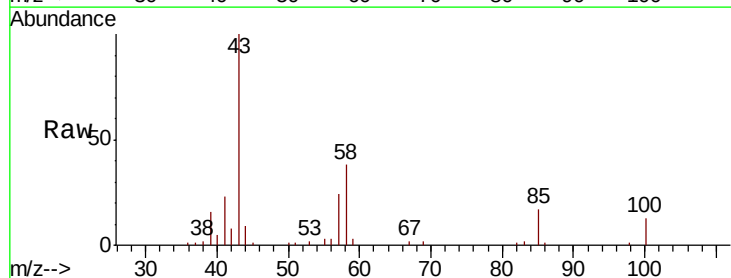
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

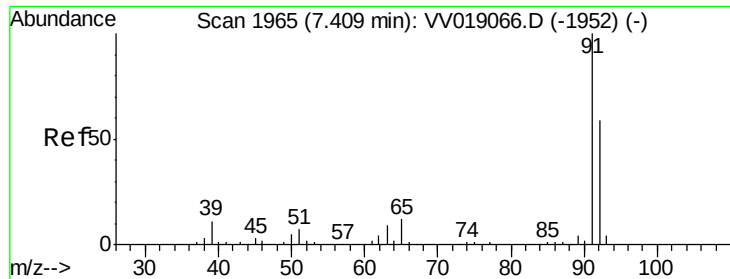
Tot Ion: 75 Resp: 15801
 Ion Ratio Lower Upper
 75 100
 77 36.0 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 8.498 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.01 min
 Lab File: VV019064.D
 Acq: 22 Oct 2020 11:57

Tgt Ion: 43 Resp: 27532
 Ion Ratio Lower Upper
 43 100
 58 36.2 29.6 44.4
 100 12.6 10.9 16.3





#42

Toluene

Concen: 4.733 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

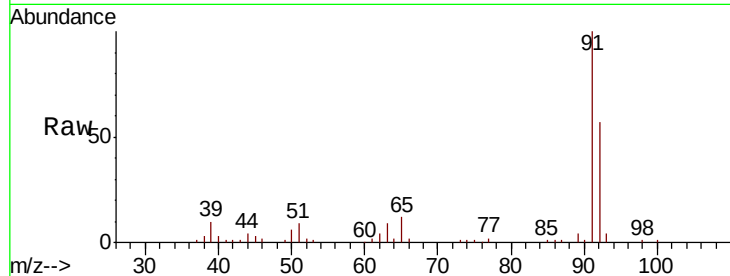
VSTD00561

Tot Ion: 91 Resp: 42742

Ion Ratio Lower Upper

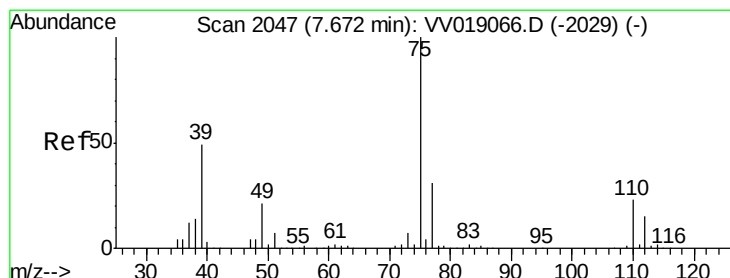
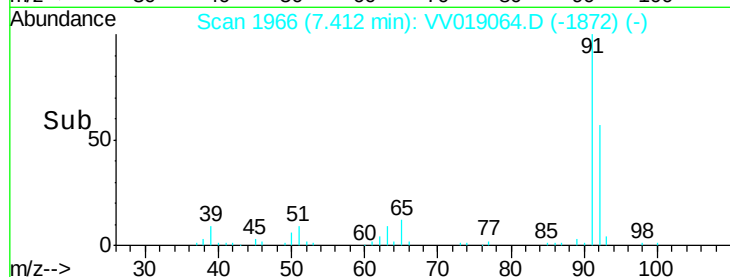
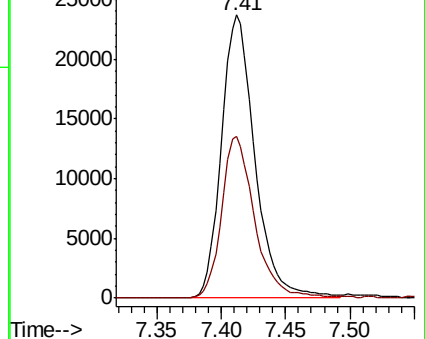
91 100

92 57.1 40.9 76.0



Abundance Ion 91.00 (90.70 to 91.70): VV019066.D (-1952) (-)

Ion 92.00 (91.70 to 92.70): VV019066.D (-1952) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.530 ug/L

RT: 7.68 min Scan# 2048

Delta R.T. 0.00 min

Lab File: VV019064.D

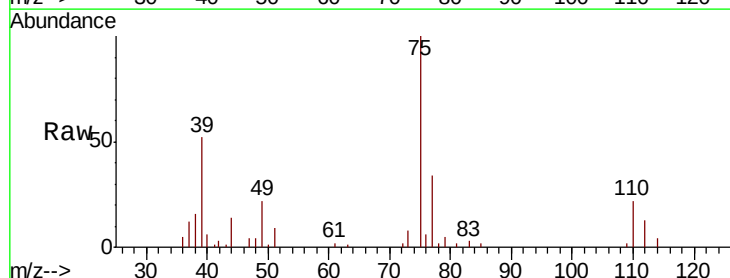
Acq: 22 Oct 2020 11:57

Tgt Ion: 75 Resp: 15542

Ion Ratio Lower Upper

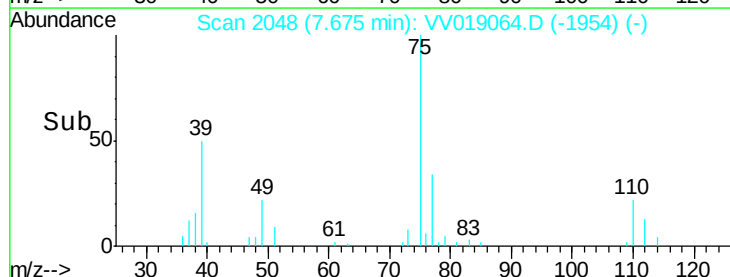
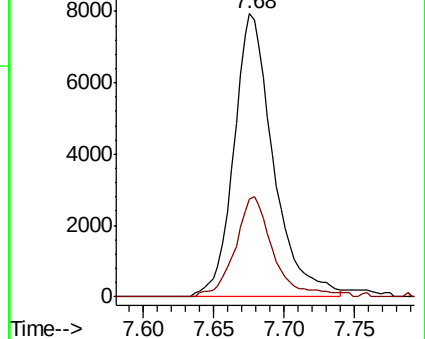
75 100

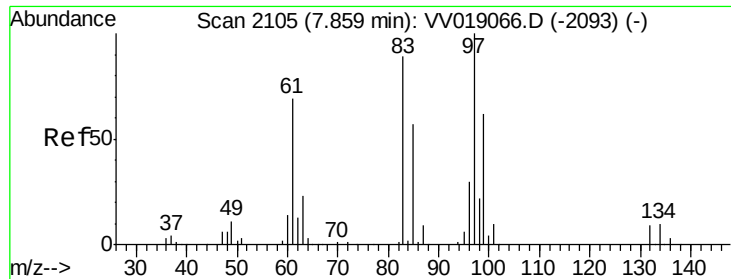
77 34.4 21.5 39.9



Abundance Ion 75.00 (74.70 to 75.70): VV019066.D (-2029) (-)

Ion 77.00 (76.70 to 77.70): VV019066.D (-2029) (-)

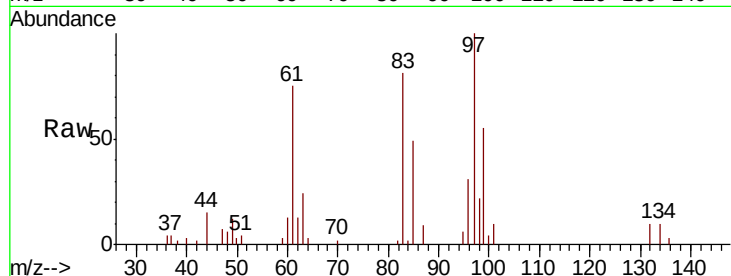




#45
1,1,2-Trichloroethane
Concen: 5.036 ug/L
RT: 7.86 min Scan# 2106
Delta R.T. 0.00 min
Lab File: VV019064.D
Acq: 22 Oct 2020 11:57

Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

Tot Ion:	97	Resp:	10945
Ion	Ratio	Lower	Upper
97	100		
99	55.0	43.5	80.9
83	81.3	62.2	115.4
85	49.3	39.9	74.1

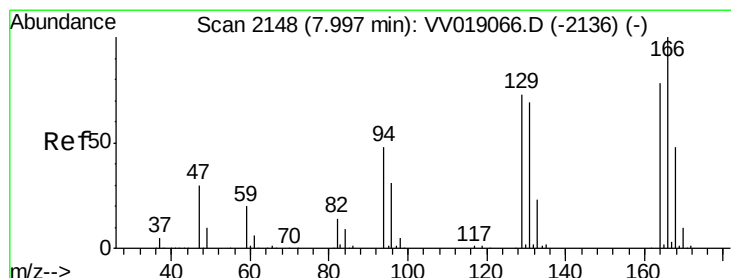
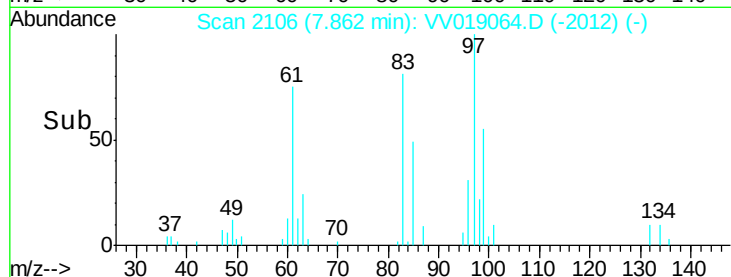
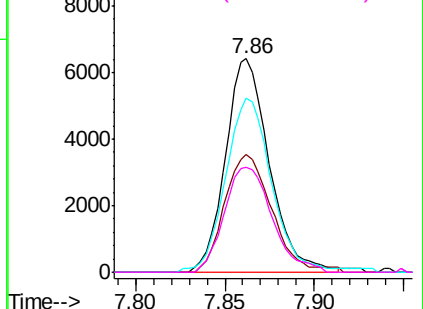


Abundance Ion 97.00 (96.70 to 97.70): VV019064.D (-2093) (-)

Ion 99.00 (98.70 to 99.70): VV019064.D (-2093) (-)

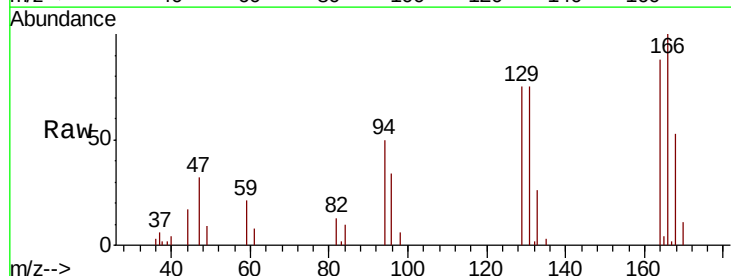
Ion 83.00 (82.70 to 83.70): VV019064.D (-2093) (-)

Ion 85.00 (84.70 to 85.70): VV019064.D (-2093) (-)



#46
Tetrachloroethene
Concen: 4.952 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.00 min
Lab File: VV019064.D
Acq: 22 Oct 2020 11:57

Tgt Ion:	164	Resp:	8811
Ion	Ratio	Lower	Upper
164	100		
129	85.9	65.5	121.6
131	86.0	62.4	115.8
166	114.0	90.0	167.2

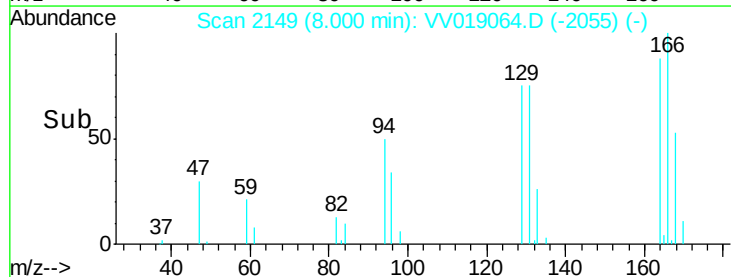
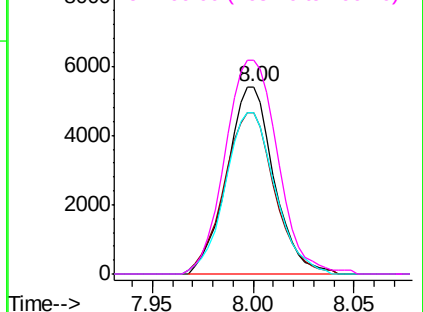


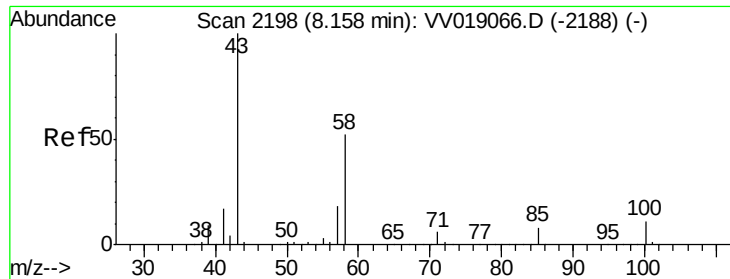
Abundance Ion 164.00 (163.70 to 164.70): VV019064.D (-2136) (-)

Ion 129.00 (128.70 to 129.70): VV019064.D (-2136) (-)

Ion 131.00 (130.70 to 131.70): VV019064.D (-2136) (-)

Ion 166.00 (165.70 to 166.70): VV019064.D (-2136) (-)

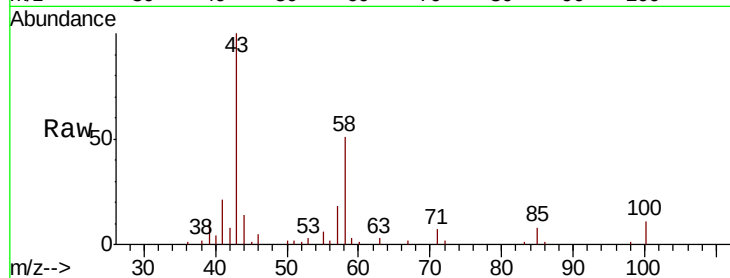




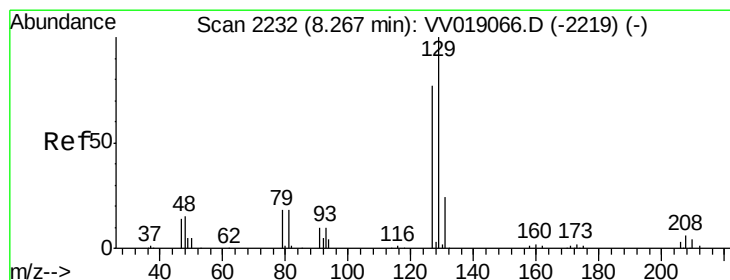
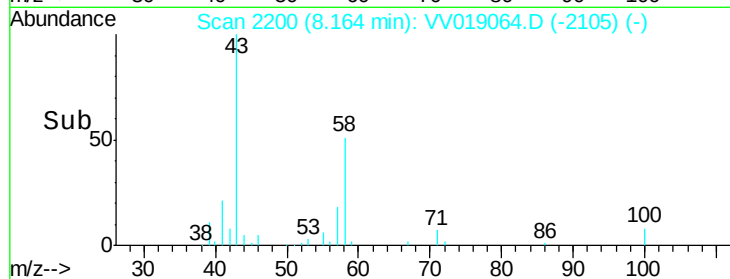
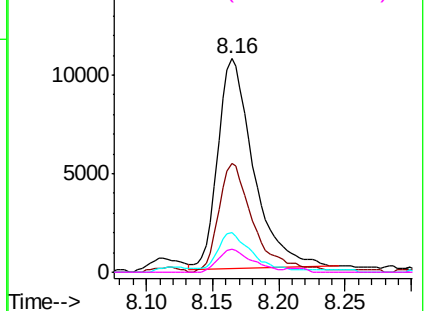
#48
2-Hexanone
Concen: 7.886 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV019064.D
Acq: 22 Oct 2020 11:57

Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

Tot Ion: 43 Resp: 20187
Ion Ratio Lower Upper
43 100
58 49.2 41.1 61.7
57 14.7 14.7 22.1#
100 10.4 8.6 12.8

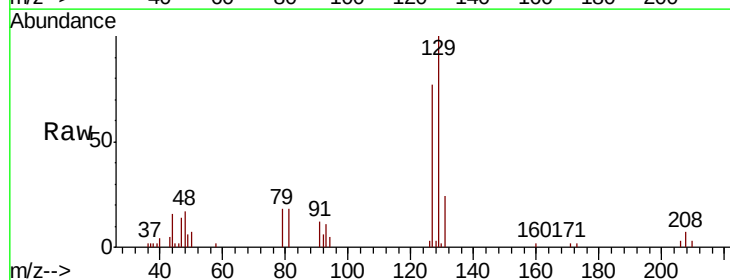


Abundance Ion 43.00 (42.70 to 43.70): VV019066.D (-2188) (-)
Ion 58.00 (57.70 to 58.70): VV019066.D (-2188) (-)
Ion 57.00 (56.70 to 57.70): VV019066.D (-2188) (-)
Ion 100.00 (99.70 to 100.70): VV019066.D (-2188) (-)

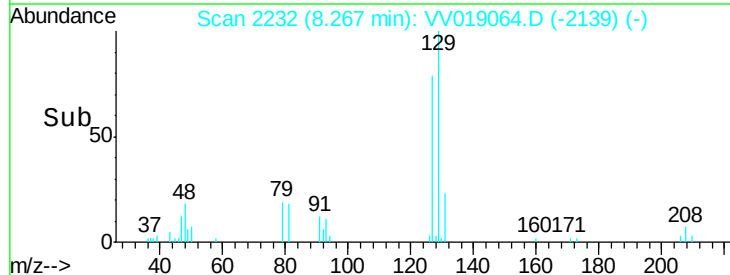
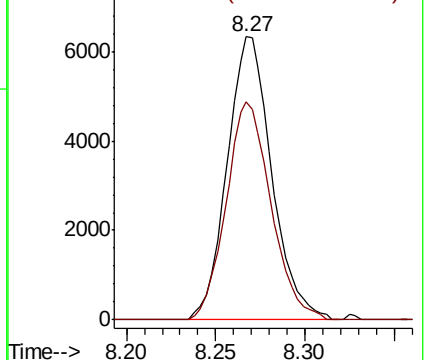


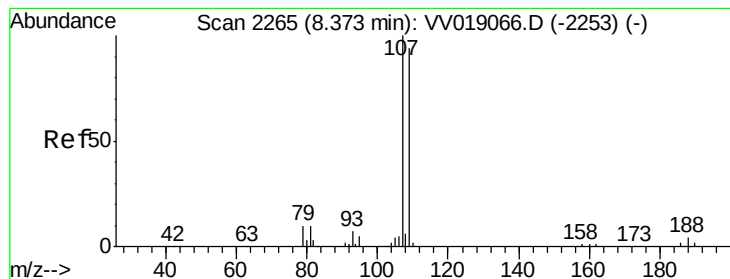
#49
Dibromochloromethane
Concen: 4.750 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV019064.D
Acq: 22 Oct 2020 11:57

Tgt Ion: 129 Resp: 11005
Ion Ratio Lower Upper
129 100
127 77.2 53.7 99.7



Abundance Ion 129.00 (128.70 to 129.70): VV019066.D (-2219) (-)
Ion 127.00 (126.70 to 127.70): VV019066.D (-2219) (-)





#50

1,2-Dibromoethane

Concen: 4.762 ug/L

RT: 8.38 min Scan# 2266

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

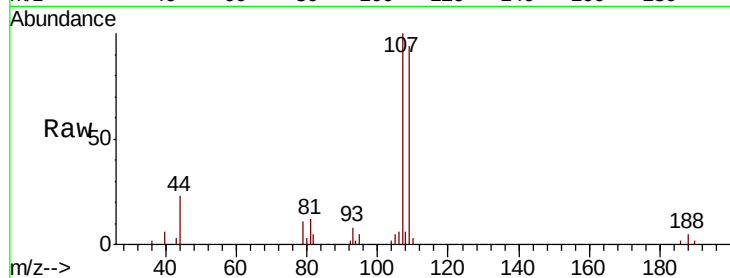
Tot Ion:107 Resp: 10774

Ion Ratio Lower Upper

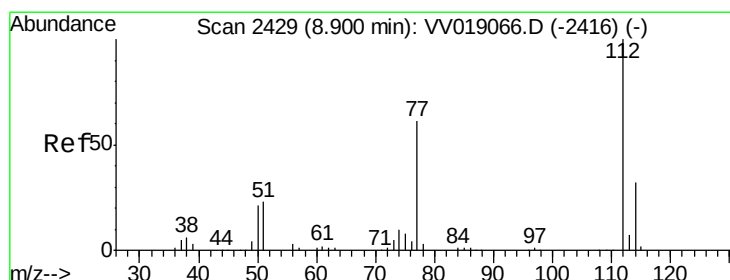
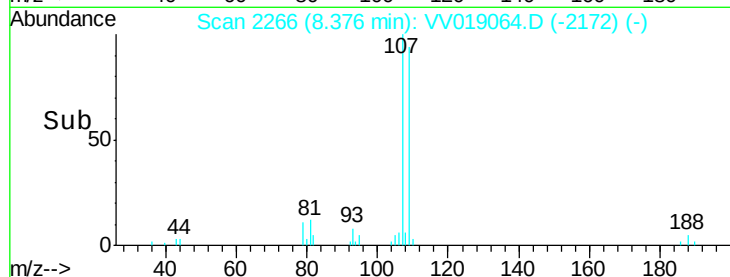
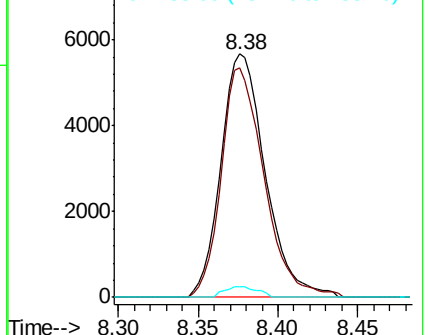
107 100

109 94.2 66.1 122.7

188 4.6 3.2 4.8



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: 4.920 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

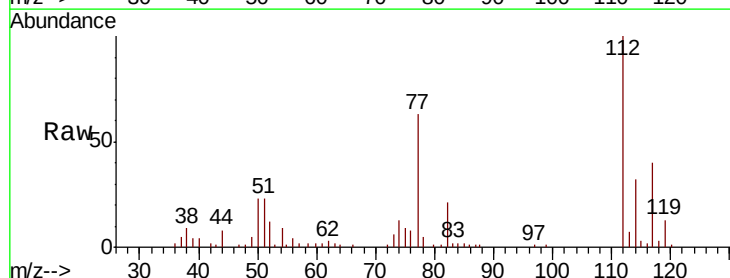
Tgt Ion:112 Resp: 28959

Ion Ratio Lower Upper

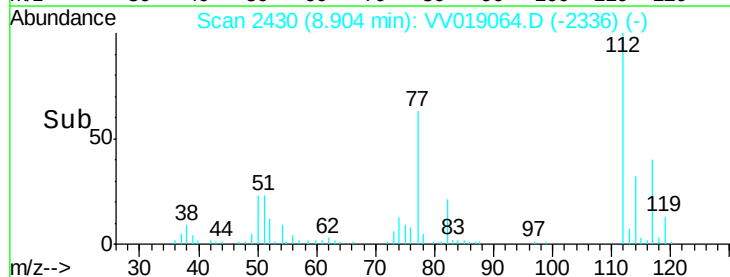
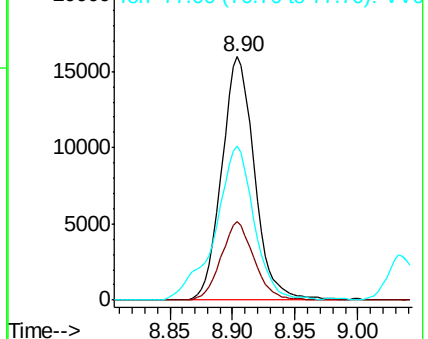
112 100

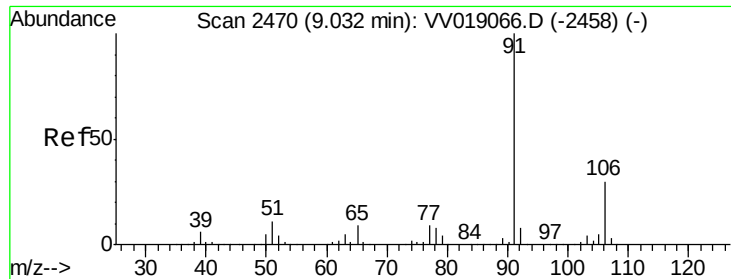
114 32.4 22.2 41.2

77 63.3 49.1 73.7



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): V





#52

Ethylbenzene

Concen: 4.550 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

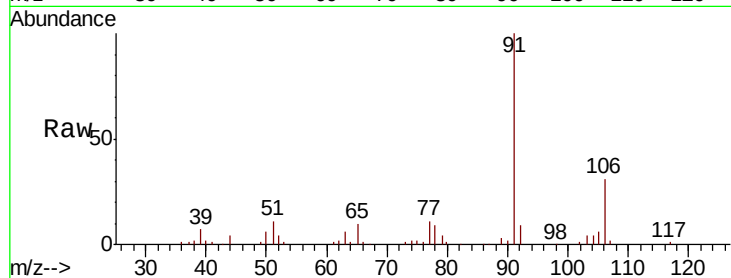
VSTD00561

Tot Ion: 91 Resp: 44507

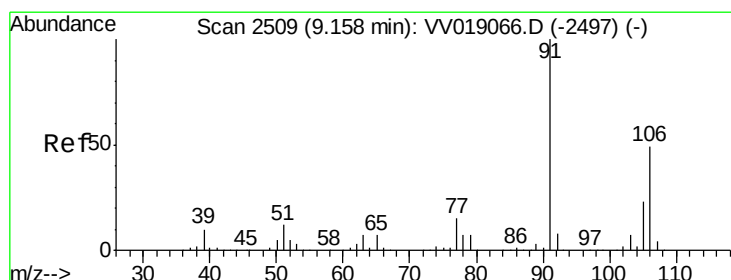
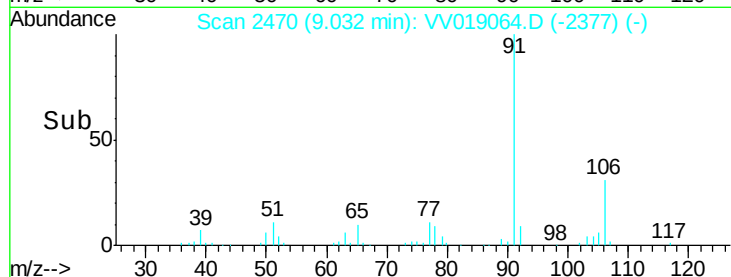
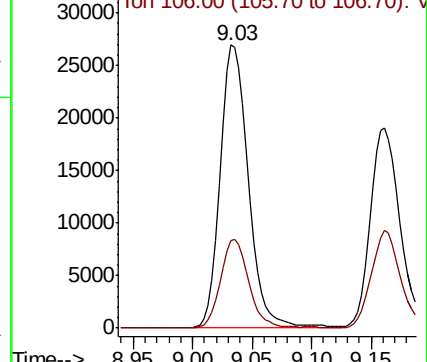
Ion Ratio Lower Upper

91 100

106 30.8 20.9 38.7



Abundance Ion 91.00 (90.70 to 91.70): VV019066.D (-2458) (-)



#53

m,p-Xylene

Concen: 4.313 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV019064.D

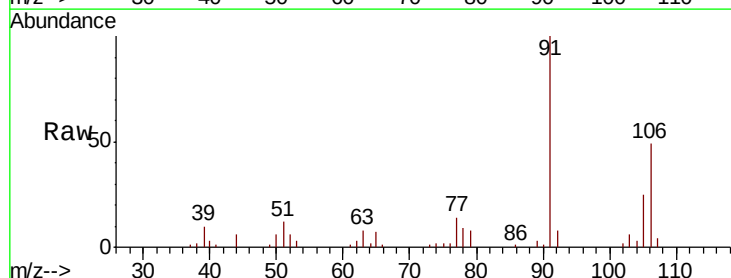
Acq: 22 Oct 2020 11:57

Tgt Ion: 106 Resp: 15736

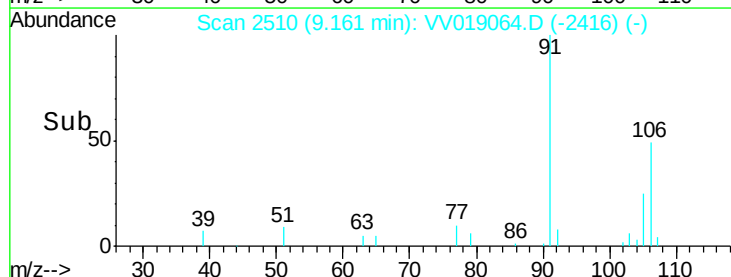
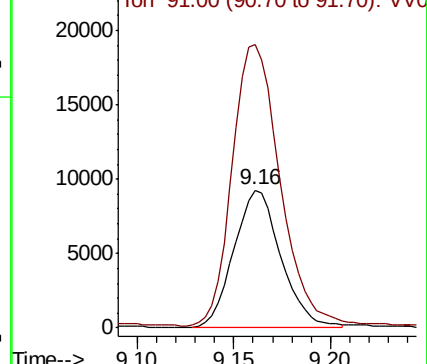
Ion Ratio Lower Upper

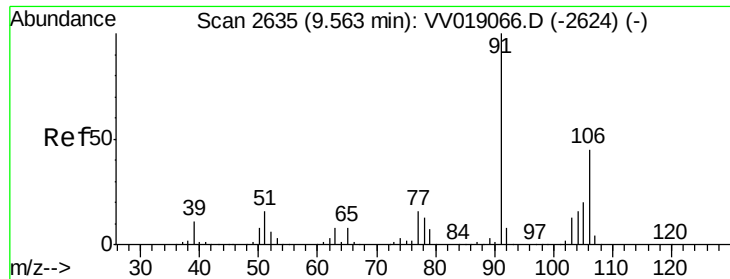
106 100

91 205.5 143.4 266.2



Abundance Ion 106.00 (105.70 to 106.70): VV019066.D (-2497) (-)





#54

o-xylene

Concen: 4.192 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

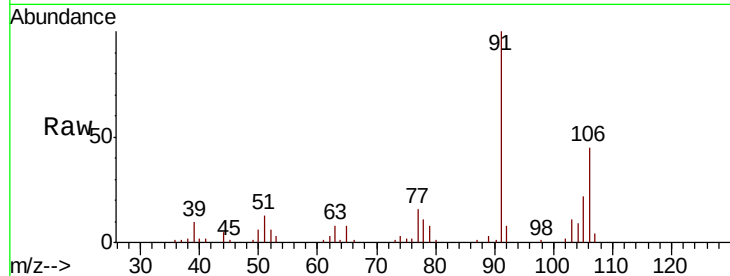
VSTD00561

Tot Ion:106 Resp: 14611

Ion Ratio Lower Upper

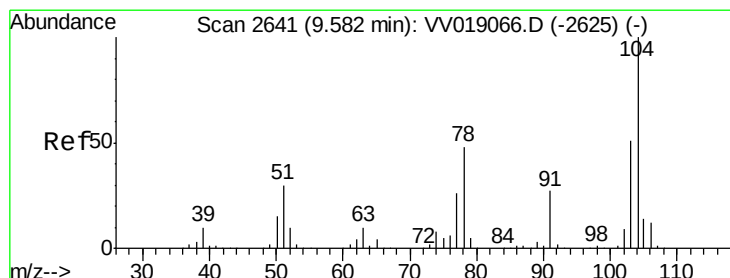
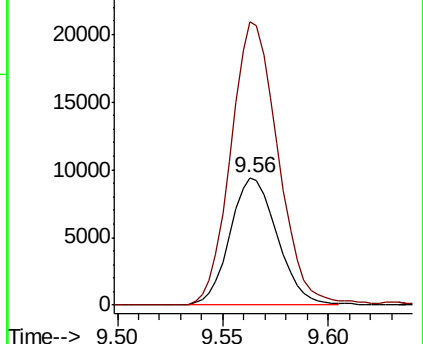
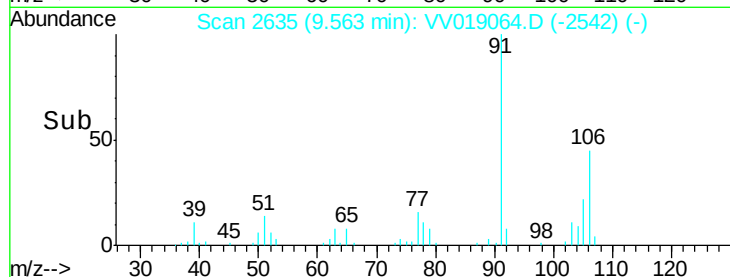
106 100

91 222.2 154.3 286.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 4.070 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV019064.D

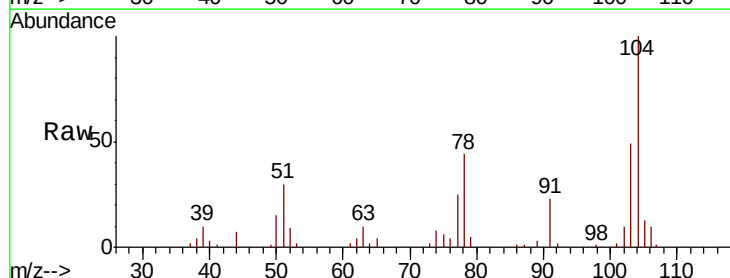
Acq: 22 Oct 2020 11:57

Tgt Ion:104 Resp: 24994

Ion Ratio Lower Upper

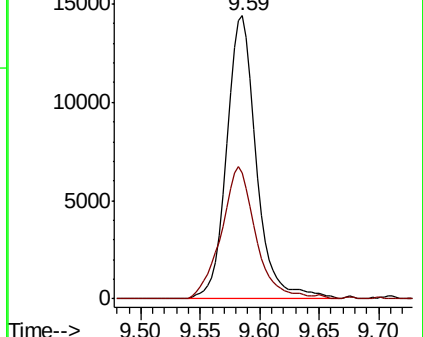
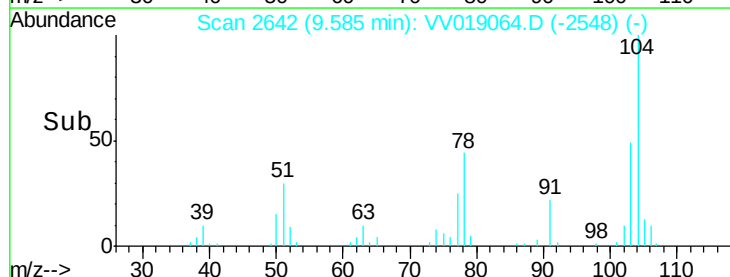
104 100

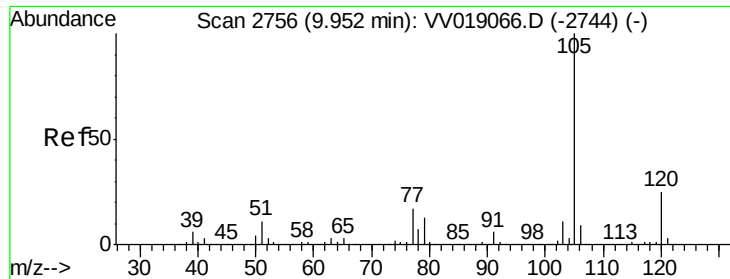
78 44.4 33.2 61.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 4.348 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

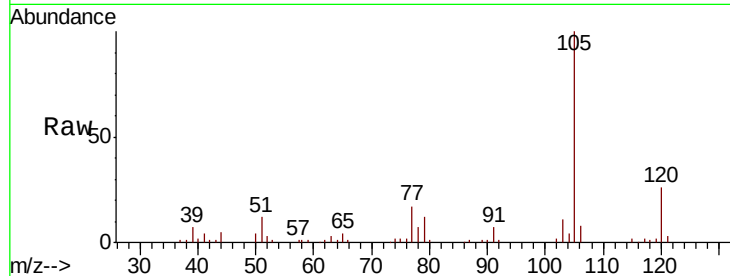
Tot Ion:105 Resp: 39835

Ion Ratio Lower Upper

105 100

120 25.7 20.6 31.0

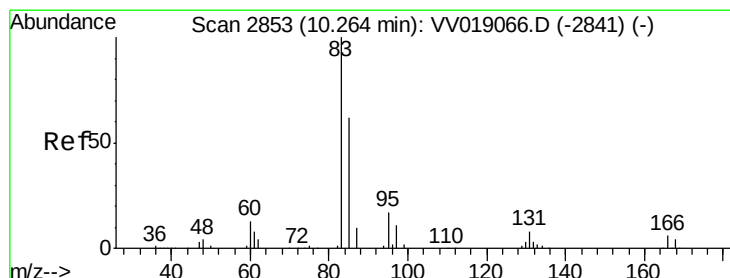
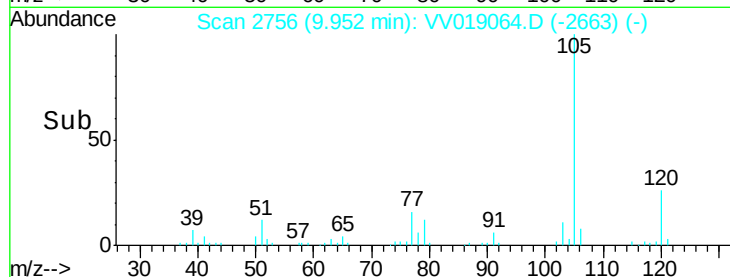
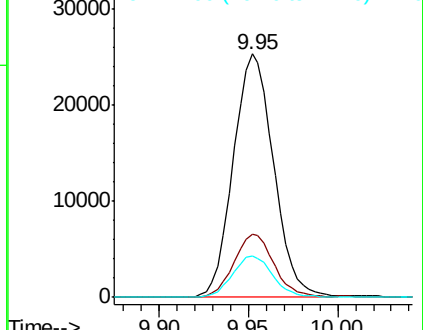
77 16.7 13.4 20.0



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: 5.771 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

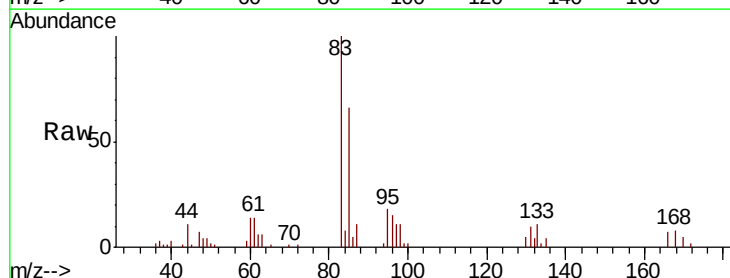
Tgt Ion: 83 Resp: 17645

Ion Ratio Lower Upper

83 100

85 65.6 44.2 82.2

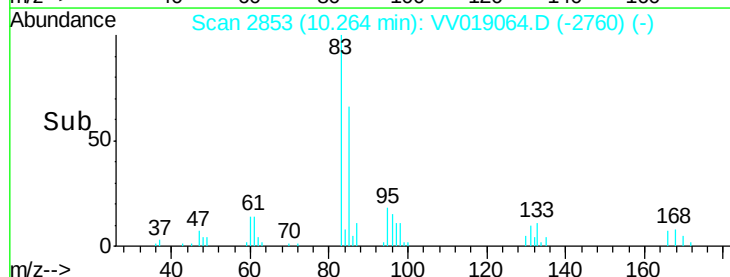
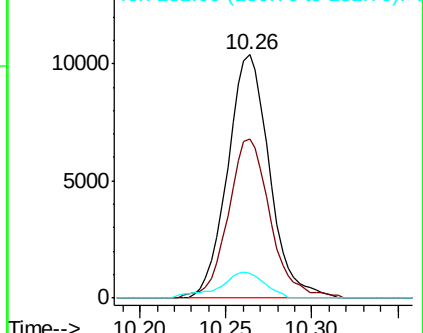
131 10.3 7.4 11.2

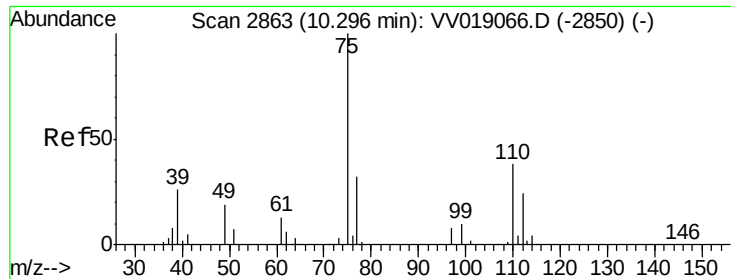


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 4.887 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

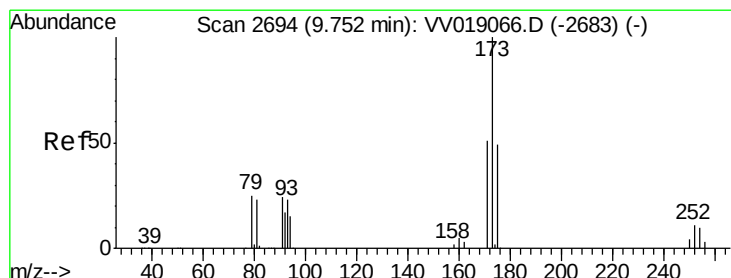
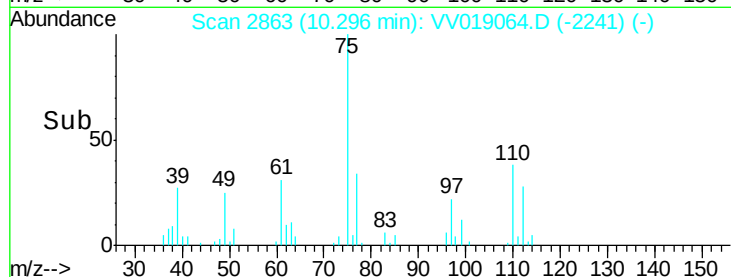
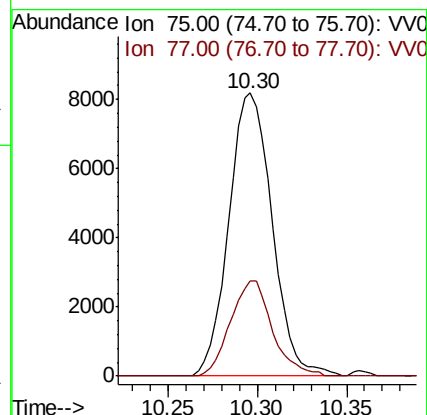
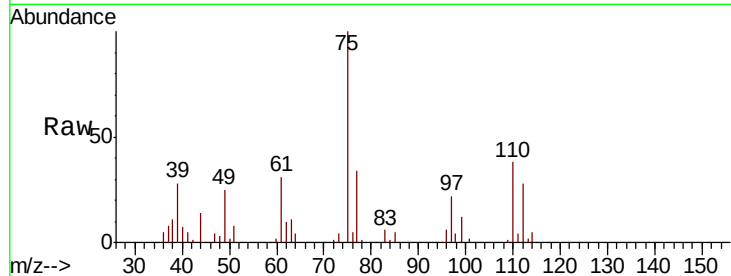
VSTD00561

Tot Ion: 75 Resp: 13867

Ion Ratio Lower Upper

75 100

77 32.3 25.9 38.9



#61

Bromoform

Concen: 4.980 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

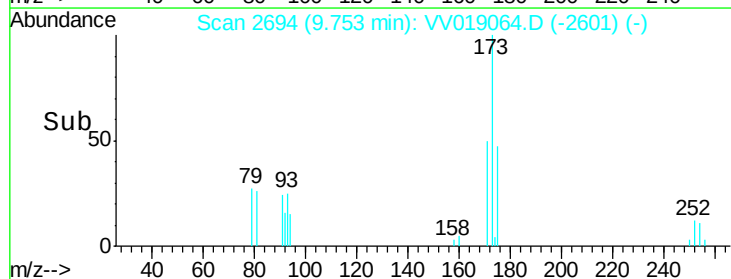
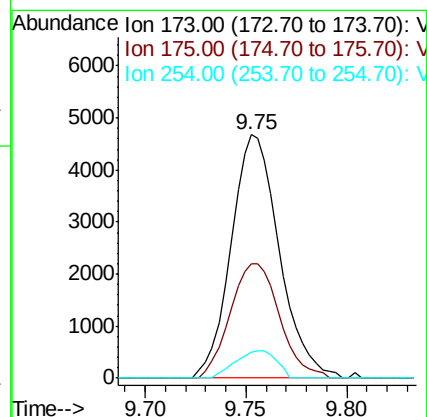
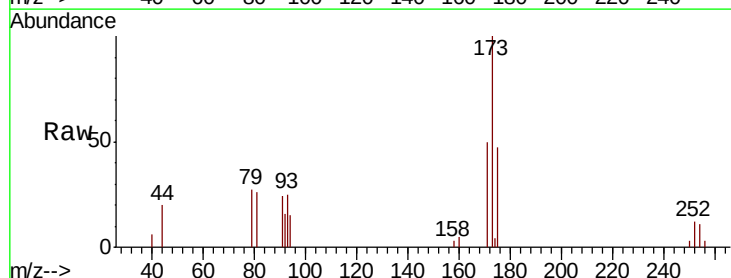
Tgt Ion: 173 Resp: 7820

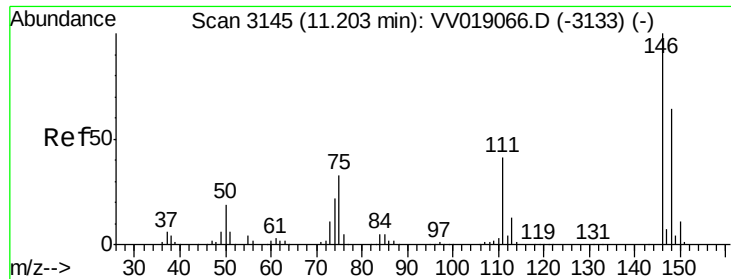
Ion Ratio Lower Upper

173 100

175 48.0 38.3 57.5

254 9.7 8.3 12.5





#62

1,3-Dichlorobenzene

Concen: 4.770 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

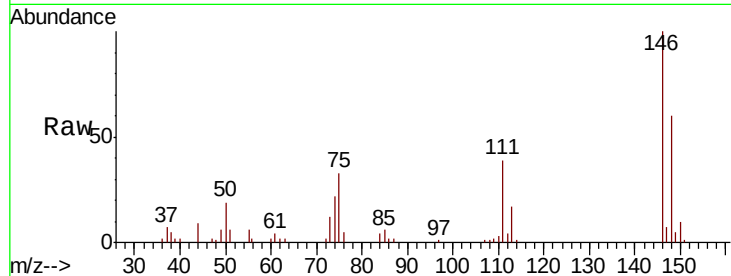
Tot Ion:146 Resp: 21109

Ion Ratio Lower Upper

146 100

111 39.2 28.8 53.4

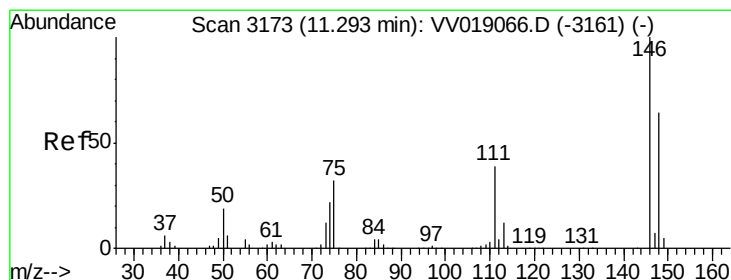
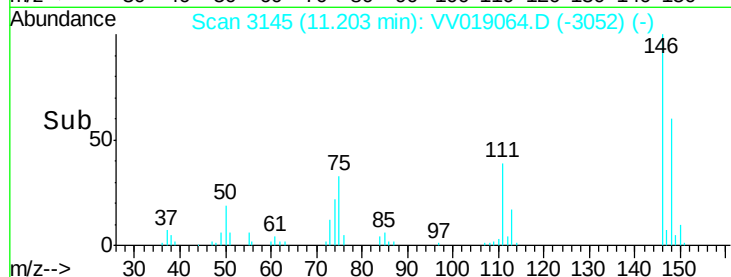
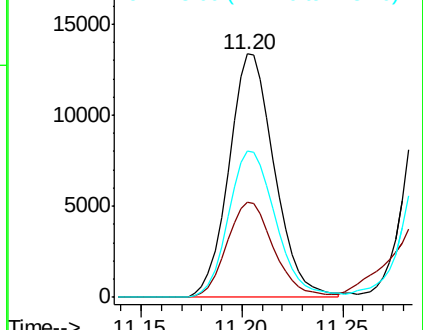
148 60.4 44.5 82.7



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: 4.883 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

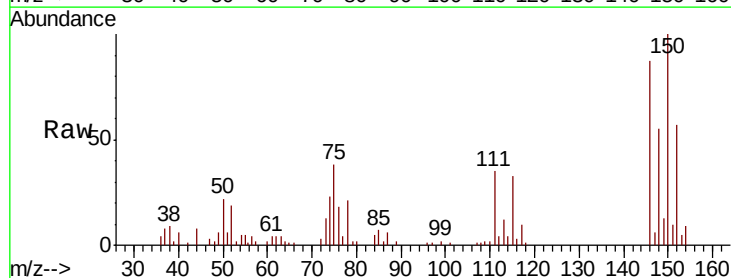
Tgt Ion:146 Resp: 22661

Ion Ratio Lower Upper

146 100

111 40.0 27.8 51.6

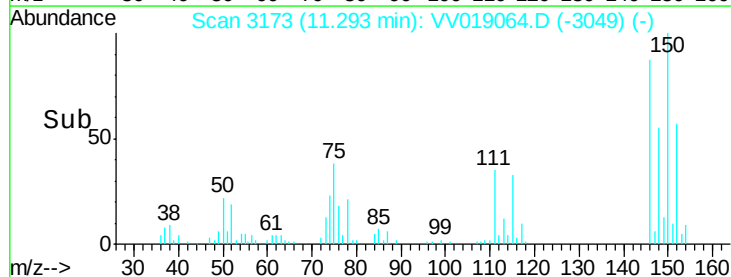
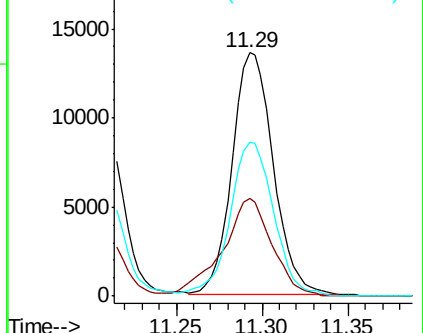
148 63.5 45.1 83.9

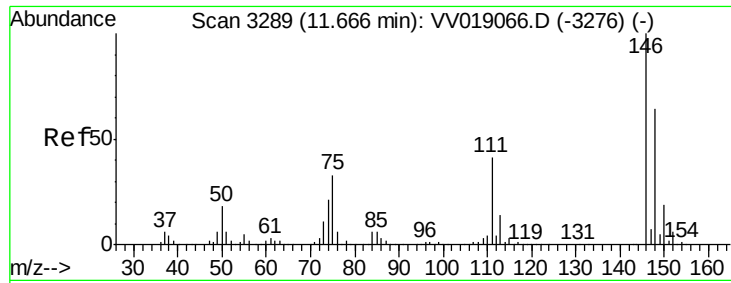


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

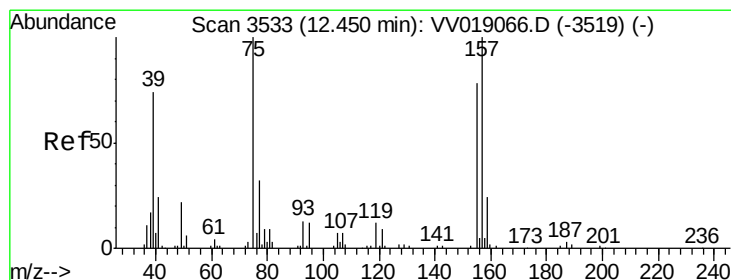
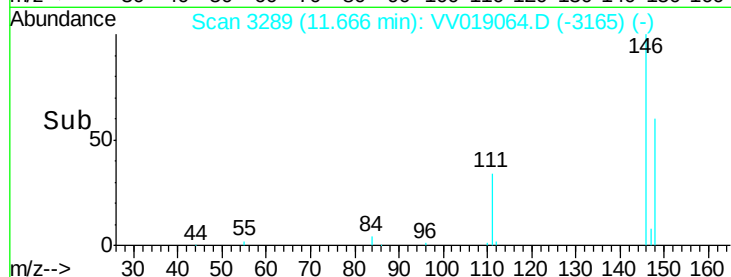
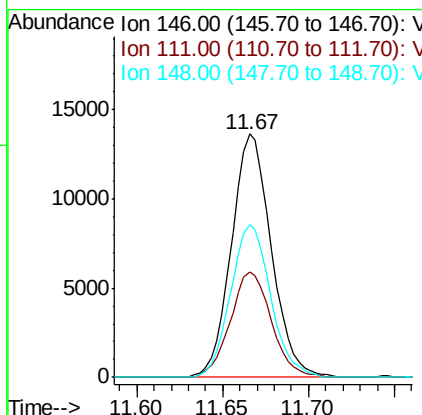
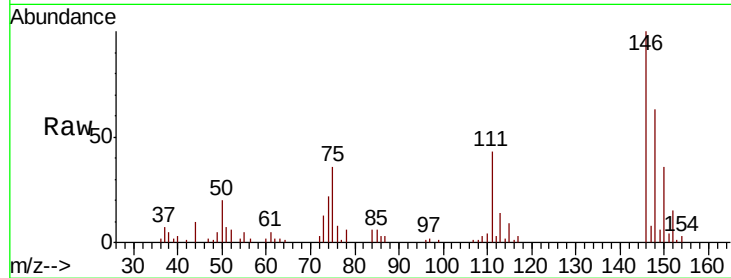




#65
 1,2-Dichlorobenzene
 Concen: 4.948 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV019064.D
 Acq: 22 Oct 2020 11:57

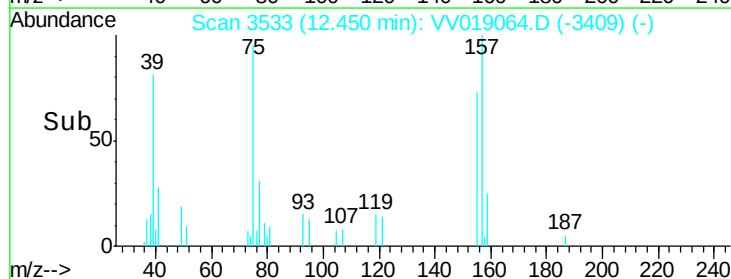
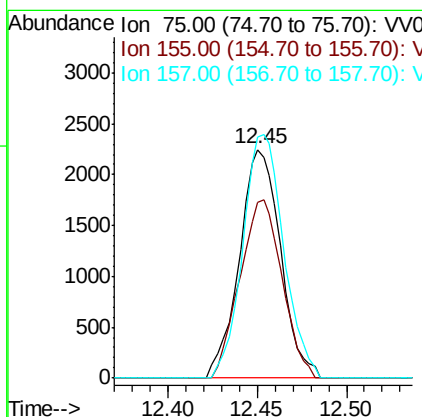
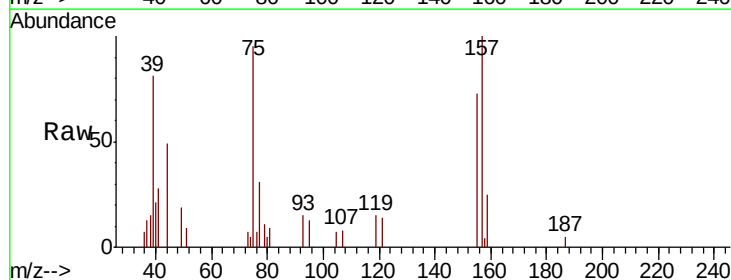
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

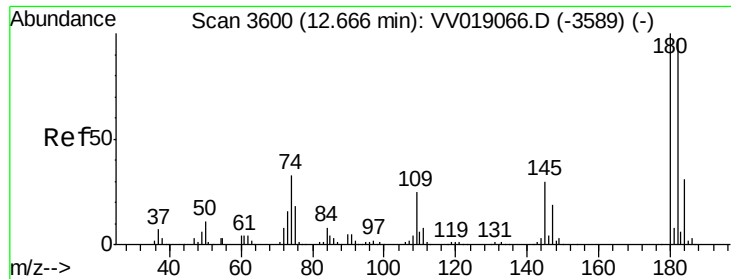
Tot Ion:146 Resp: 22010
 Ion Ratio Lower Upper
 146 100
 111 43.4 33.3 49.9
 148 62.6 51.1 76.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.272 ug/L
 RT: 12.45 min Scan# 3533
 Delta R.T. 0.00 min
 Lab File: VV019064.D
 Acq: 22 Oct 2020 11:57

Tgt Ion: 75 Resp: 3623
 Ion Ratio Lower Upper
 75 100
 155 76.8 62.2 93.4
 157 105.5 79.9 119.9

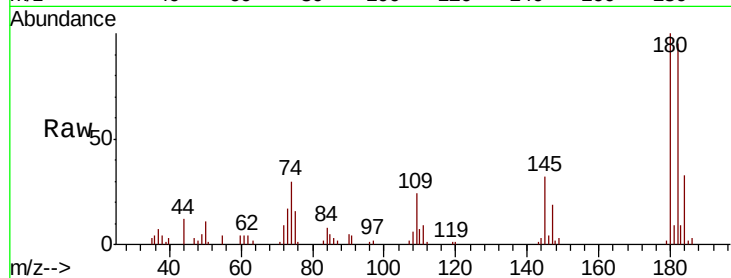




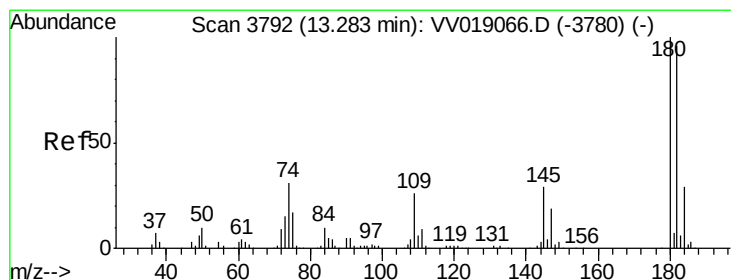
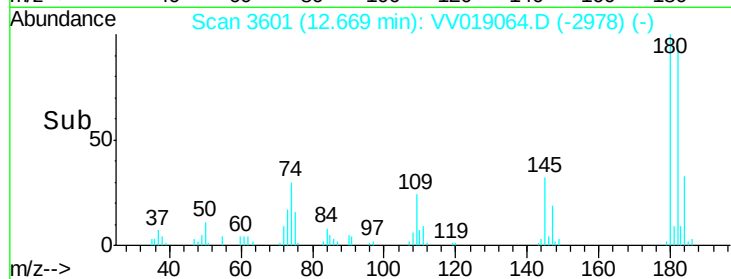
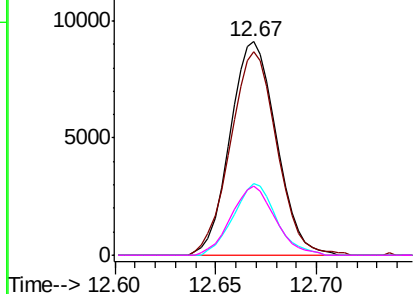
#67
 1,3,5-Trichlorobenzene
 Concen: 4.946 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV019064.D
 Acq: 22 Oct 2020 11:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

Tot Ion:180 Resp: 14665
 Ion Ratio Lower Upper
 180 100
 182 95.5 77.4 116.0
 184 30.9 24.7 37.1
 145 30.7 23.5 35.3

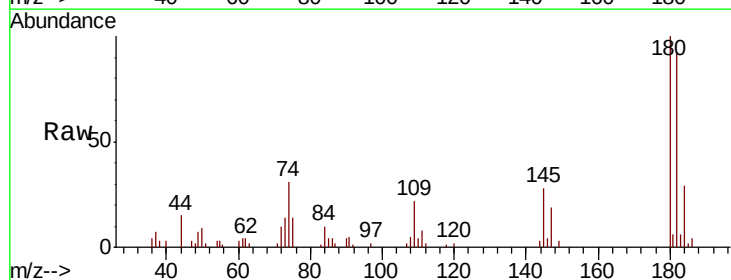


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

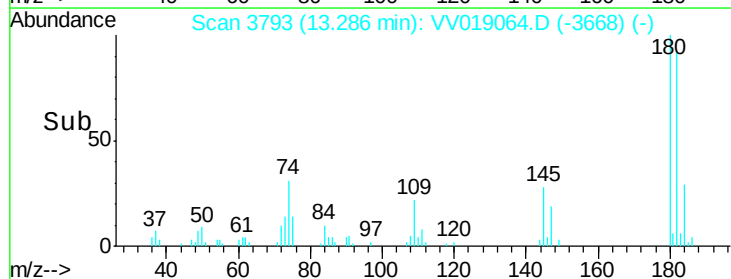
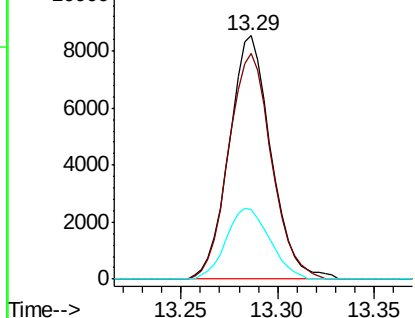


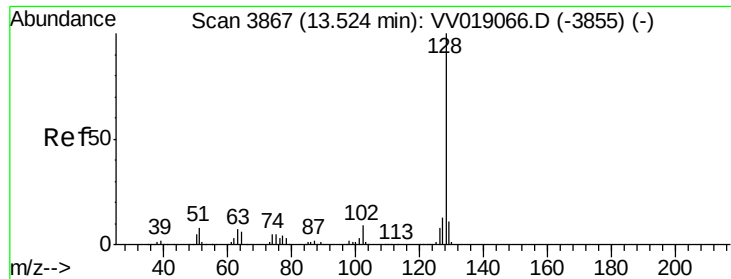
#68
 1,2,4-trichlorobenzene
 Concen: 4.691 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV019064.D
 Acq: 22 Oct 2020 11:57

Tgt Ion:180 Resp: 12861
 Ion Ratio Lower Upper
 180 100
 182 95.0 77.4 116.2
 145 30.2 23.7 35.5



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: 4.245 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

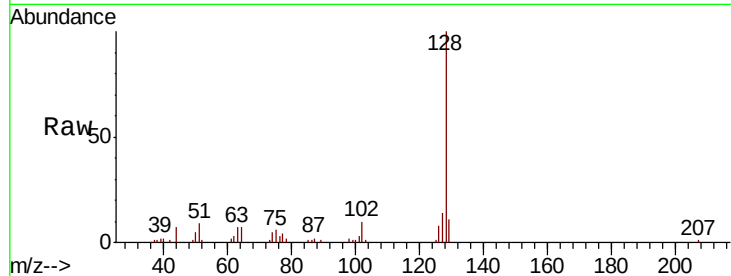
Tot Ion:128 Resp: 33690

Ion Ratio Lower Upper

128 100

127 14.6 10.6 15.8

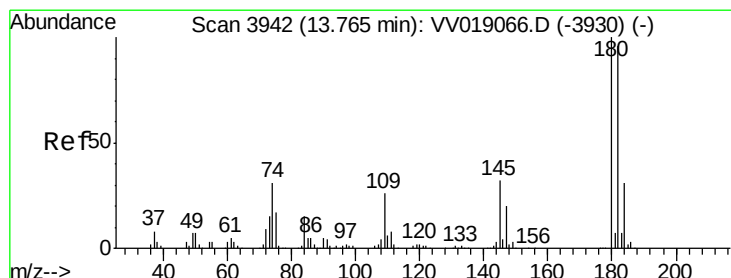
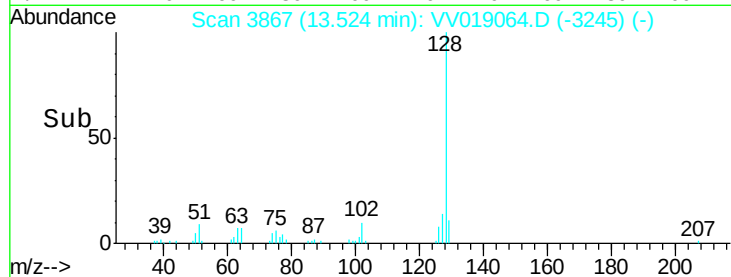
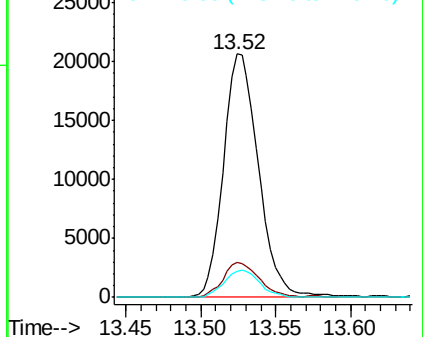
129 11.2 8.7 13.1



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: 4.879 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VV019064.D

Acq: 22 Oct 2020 11:57

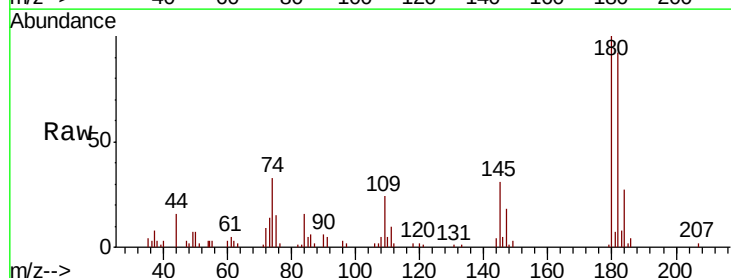
Tgt Ion:180 Resp: 13371

Ion Ratio Lower Upper

180 100

182 93.2 76.9 115.3

145 31.0 25.6 38.4



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

