

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV090320\
 Data File : VV018151.D
 Acq On : 03 Sep 2020 12:43
 Operator : SY/MD
 Sample : K4649-08MSD
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 A5169MSD

Quant Time: Sep 04 02:19:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM080619W.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 04 02:12:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	265766	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	260556	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	144871	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	72244	49.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	99.46%
7) Chloroethane-d5	1.58	69	69027	66.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	133.88%#
11) 1,1-Dichloroethene-d2	2.13	63	160528	63.74	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	127.48%#
21) 2-Butanone-d5	3.92	46	140748	132.97	ug/L	0.01
Spiked Amount	100.000	Range	40 - 130	Recovery	=	132.97%#
24) Chloroform-d	4.38	84	172509	47.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.66%
26) 1,2-Dichloroethane-d4	5.06	65	109955	46.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.92%
32) Benzene-d6	5.08	84	321066	42.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.64%
36) 1,2-Dichloropropane-d6	6.09	67	108296	49.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.72%
41) Toluene-d8	7.34	98	295341	40.85	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	81.70%
43) trans-1,3-Dichloropropene-	7.64	79	53422	43.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.52%
47) 2-Hexanone-d5	8.11	63	82104	91.02	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.02%
56) 1,1,2,2-Tetrachloroethane-	10.24	84	154709	50.54	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.08%
66) 1,2-Dichlorobenzene-d4	11.65	152	133777	39.26	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	78.52%#

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	83750	44.616	ug/L 98
3) Chloromethane	1.25	50	98147	73.635	ug/L 98
5) Vinyl chloride	1.32	62	103106	80.141	ug/L 99
6) Bromomethane	1.53	94	64868	86.847	ug/L 99
8) Chloroethane	1.60	64	69719	103.472	ug/L 100
9) Trichlorofluoromethane	1.77	101	152367	72.840	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	89250	87.037	ug/L 91
12) 1,1-Dichloroethene	2.13	96	84352	87.359	ug/L 94
13) Acetone	2.20	43	130661	181.042	ug/L 95
14) Carbon disulfide	2.31	76	204132	62.560	ug/L 99
15) Methyl Acetate	2.45	43	110804	87.746	ug/L 91
16) Methylene chloride	2.52	84	102651	70.067	ug/L 89
17) trans-1,2-Dichloroethene	2.78	96	87720	64.337	ug/L 91
18) Methyl tert-butyl Ether	2.78	73	317294	67.726	ug/L 97
19) 1,1-Dichloroethane	3.21	63	183147	73.659	ug/L 99
20) cis-1,2-Dichloroethene	3.94	96	103179	64.248	ug/L 84
22) 2-Butanone	4.00	43	166789	179.320	ug/L 90

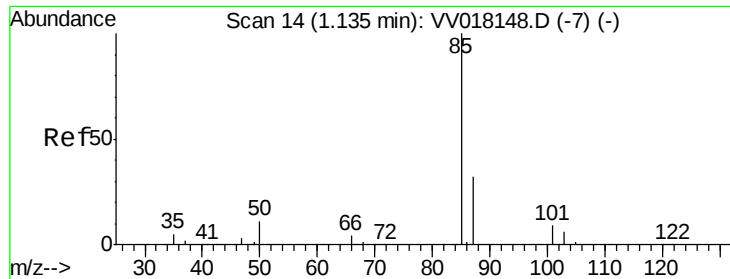
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.28	128	53995	61.144	ug/L #	79
25) Chloroform	4.40	83	189945	67.395	ug/L	98
27) 1,2-Dichloroethane	5.15	62	147743	67.447	ug/L	100
29) Cyclohexane	4.70	56	139984	64.250	ug/L	91
30) 1,1,1-Trichloroethane	4.64	97	160942	58.148	ug/L	97
31) Carbon tetrachloride	4.86	117	135254	52.675	ug/L	97
33) Benzene	5.13	78	391084	65.204	ug/L	100
34) Trichloroethene	5.94	95	103330	61.982	ug/L	93
35) Methylcyclohexane	6.15	83	141583	57.060	ug/L	93
37) 1,2-Dichloropropane	6.20	63	111242	76.040	ug/L	98
38) Bromodichloromethane	6.53	83	145041	63.022	ug/L	99
39) cis-1,3-Dichloropropene	7.05	75	169848	65.852	ug/L	100
40) 4-Methyl-2-pentanone	7.25	43	300650	159.676	ug/L	96
42) Toluene	7.41	91	424856	63.749	ug/L	100
44) trans-1,3-Dichloropropene	7.67	75	167653	68.858	ug/L	100
45) 1,1,2-Trichloroethane	7.86	97	104005	65.951	ug/L	96
46) Tetrachloroethene	8.00	164	79978	51.490	ug/L	98
48) 2-Hexanone	8.16	43	242902	171.114	ug/L	97
49) Dibromochloromethane	8.27	129	115461	56.421	ug/L	99
50) 1,2-Dibromoethane	8.37	107	108359	62.131	ug/L	97
51) Chlorobenzene	8.90	112	280654	62.460	ug/L	97
52) Ethylbenzene	9.03	91	470241	62.884	ug/L	97
53) m,p-Xylene	9.16	106	174607	60.528	ug/L	99
54) o-Xylene	9.57	106	173345	60.556	ug/L	97
55) Styrene	9.58	104	310780	64.448	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.26	83	164997	68.037	ug/L	99
59) Bromoform	9.75	173	86606	50.965	ug/L	99
60) Isopropylbenzene	9.95	105	469122	59.153	ug/L	98
61) 1,2,3-Trichloropropane	10.30	75	138532	70.420	ug/L	96
62) 1,3,5-Trimethylbenzene	10.56	105	394690	57.568	ug/L	100
63) 1,2,4-Trimethylbenzene	10.94	105	407392	60.205	ug/L	99
64) 1,3-Dichlorobenzene	11.20	146	234929	58.710	ug/L	98
65) 1,4-Dichlorobenzene	11.29	146	241325	59.665	ug/L	98
67) 1,2-Dichlorobenzene	11.67	146	238711	58.468	ug/L	97
68) 1,2-Dibromo-3-chloropropan	12.45	75	36105	55.689	ug/L	86
69) 1,3,5-Trichlorobenzene	12.67	180	187093	57.678	ug/L	99
70) 1,2,4-trichlorobenzene	13.28	180	175580	62.427	ug/L	99
71) Naphthalene	13.52	128	491813	68.994	ug/L	100
72) 1,2,3-Trichlorobenzene	13.77	180	179281	63.342	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 44.616 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

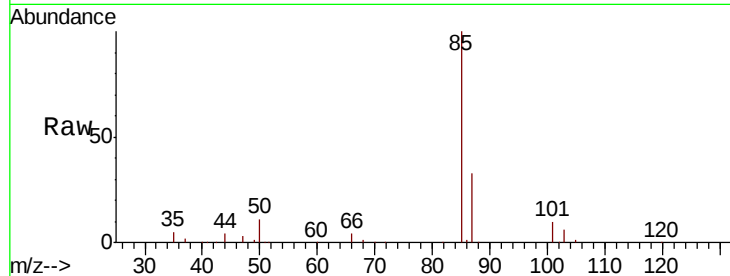
A5169MSD

Tot Ion: 85 Resp: 83750

Ion Ratio Lower Upper

85 100

87 32.5 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

100000

80000

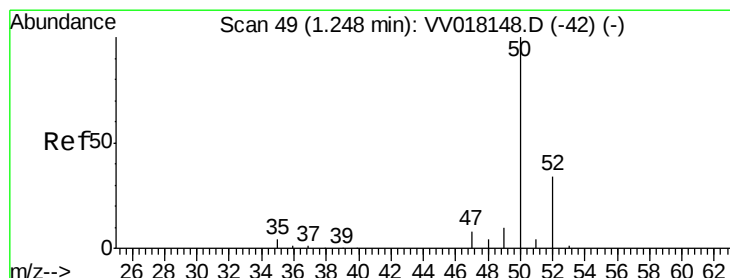
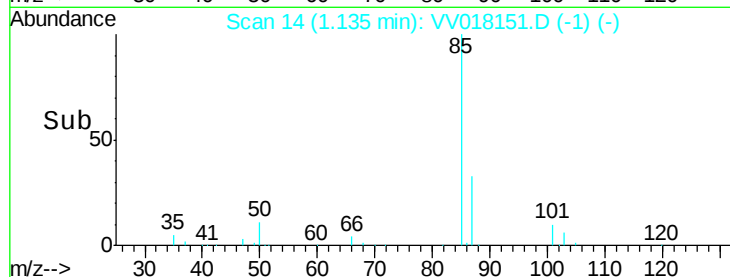
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 73.635 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV018151.D

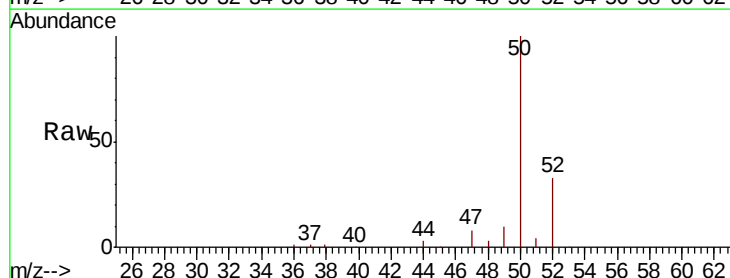
Acq: 03 Sep 2020 12:43

Tgt Ion: 50 Resp: 98147

Ion Ratio Lower Upper

50 100

52 32.8 23.9 44.3



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

1.25

100000

80000

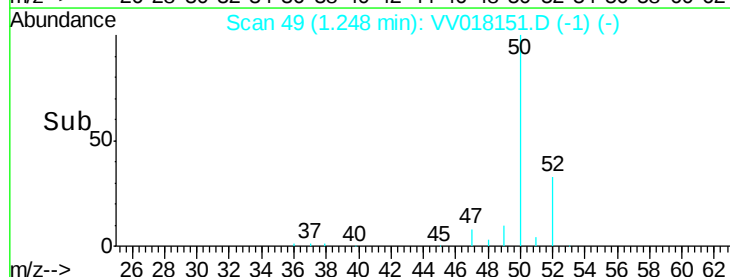
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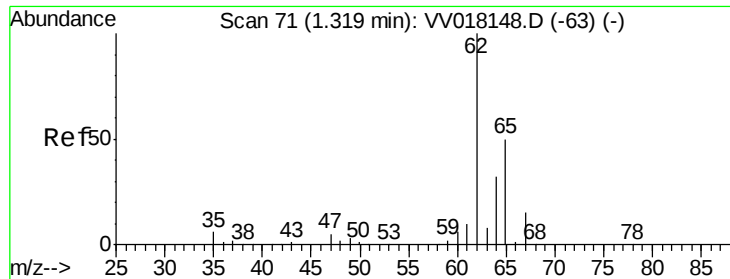
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 80.141 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

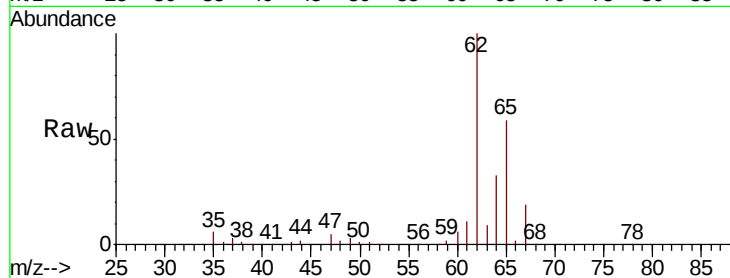
A5169MSD

Tot Ion: 62 Resp: 103106

Ion Ratio Lower Upper

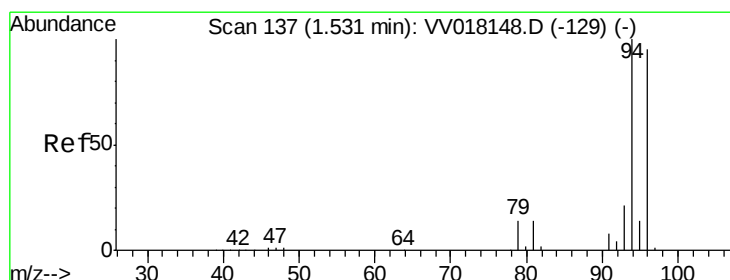
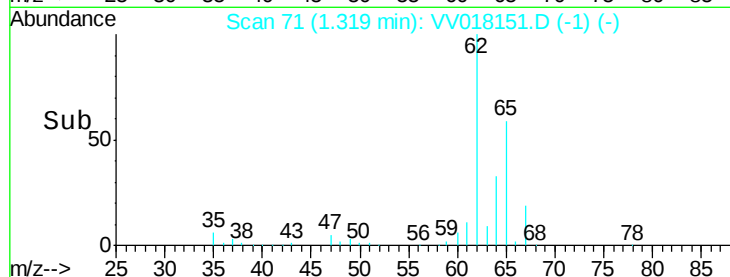
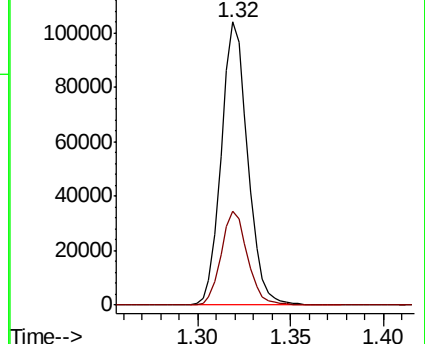
62 100

64 33.2 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 86.847 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV018151.D

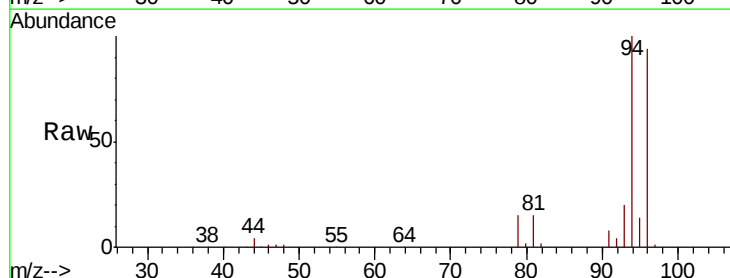
Acq: 03 Sep 2020 12:43

Tgt Ion: 94 Resp: 64868

Ion Ratio Lower Upper

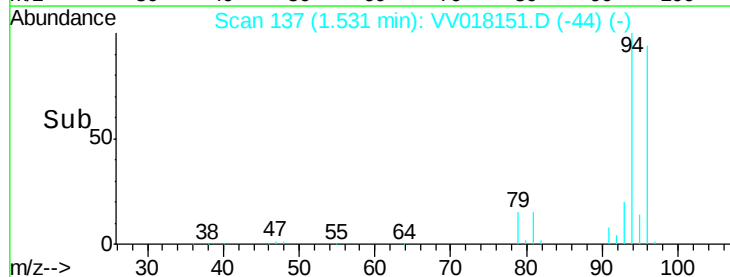
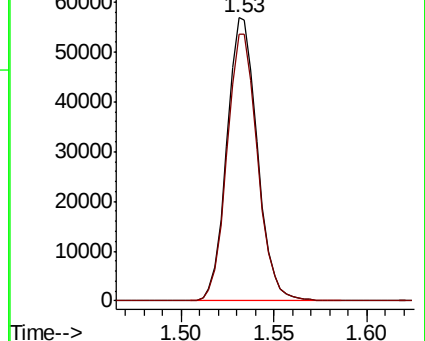
94 100

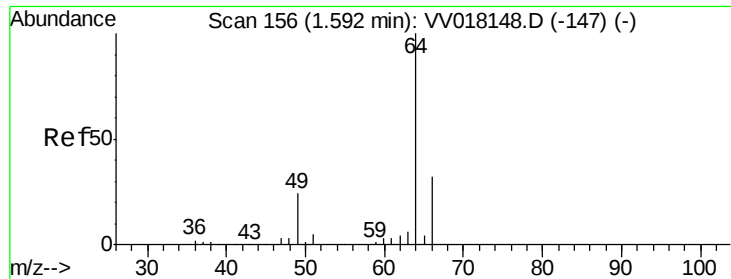
96 94.2 66.8 124.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 103.472 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

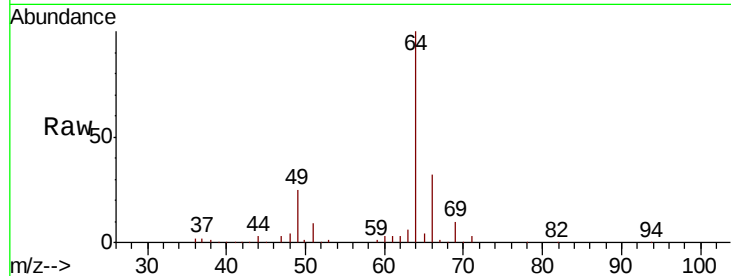
A5169MSD

Tot Ion: 64 Resp: 69719

Ion Ratio Lower Upper

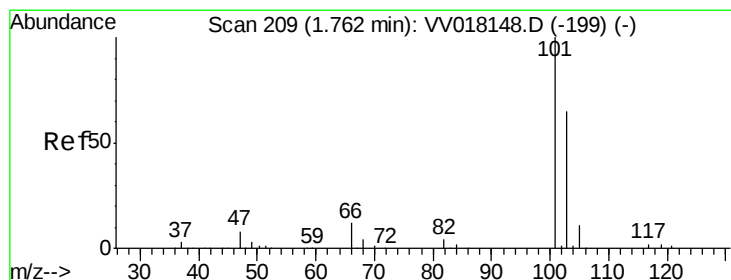
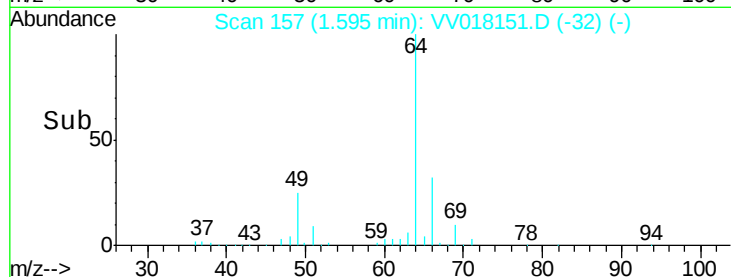
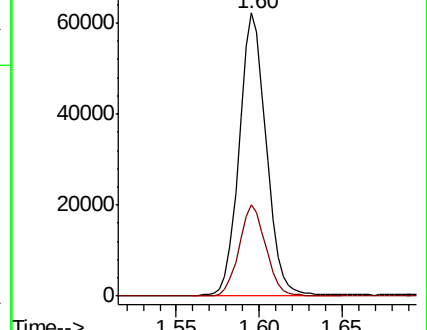
64 100

66 32.1 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VV018151.D (-32) (-)

Ion 66.00 (65.70 to 66.70): VV018151.D (-32) (-)



#9

Trichlorofluoromethane

Concen: 72.840 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV018151.D

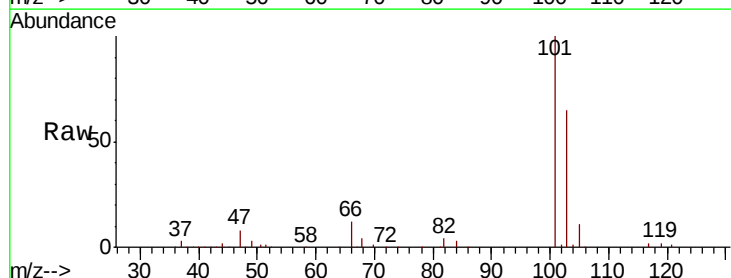
Acq: 03 Sep 2020 12:43

Tgt Ion:101 Resp: 152367

Ion Ratio Lower Upper

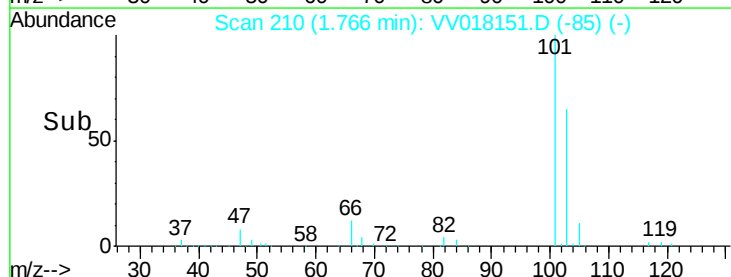
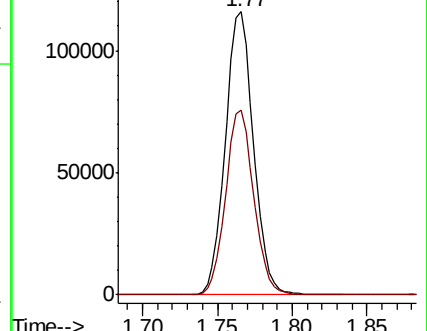
101 100

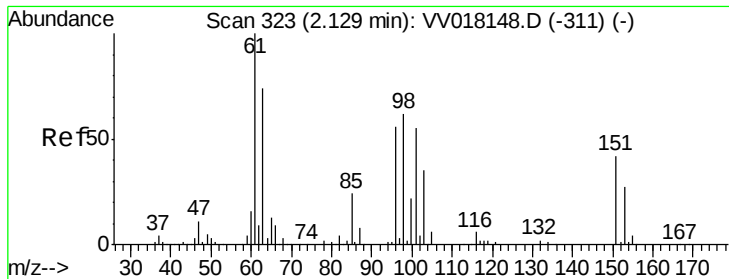
103 65.2 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VV018151.D (-85) (-)

Ion 103.00 (102.70 to 103.70): VV018151.D (-85) (-)





#10

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

Concen: 87.037 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

A5169MSD

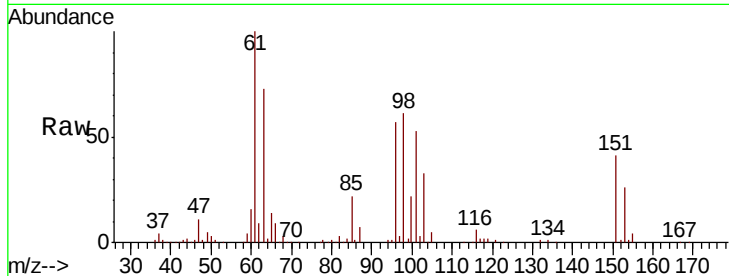
Tot Ion:101 Resp: 89250

Ion Ratio Lower Upper

101 100

85 43.6 34.4 51.6

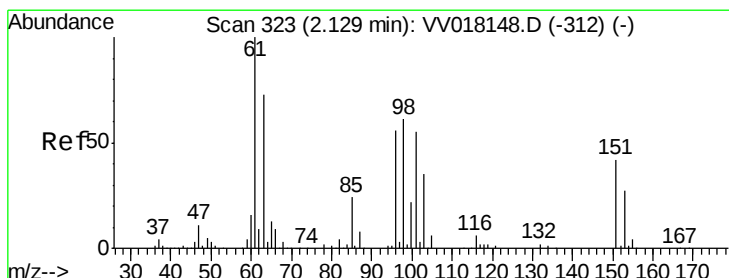
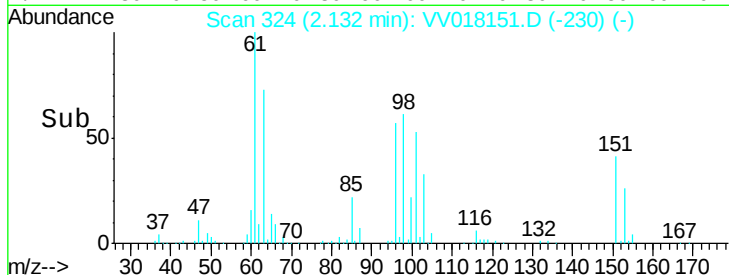
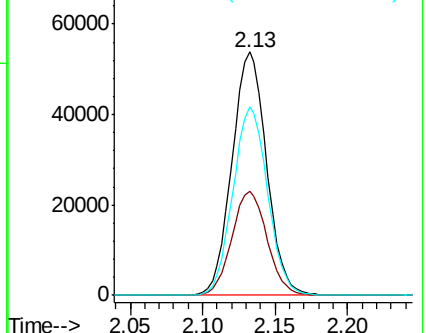
151 78.0 72.2 108.2



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: 87.359 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

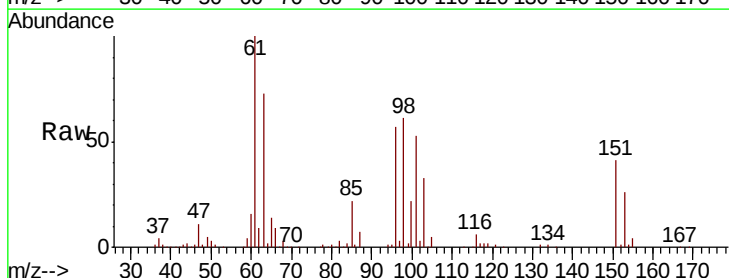
Tgt Ion: 96 Resp: 84352

Ion Ratio Lower Upper

96 100

61 175.5 120.0 223.0

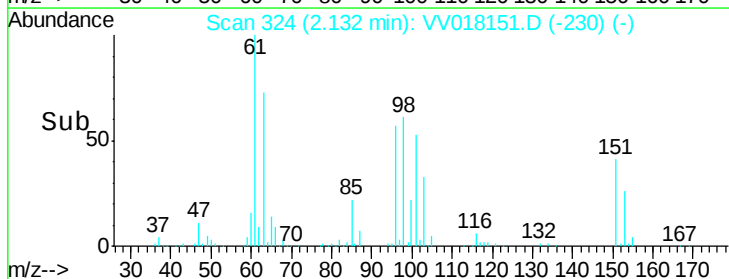
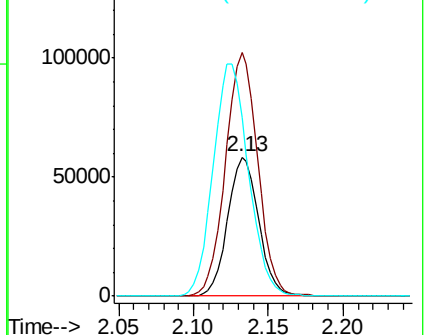
63 129.0 98.3 182.7

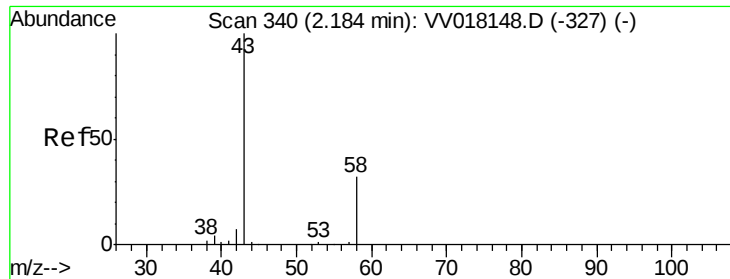


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 181.042 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

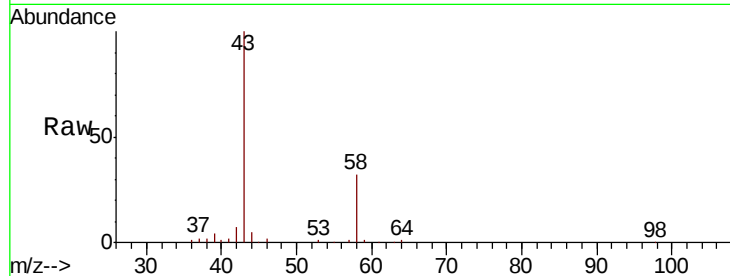
A5169MSD

Tot Ion: 43 Resp: 130661

Ion Ratio Lower Upper

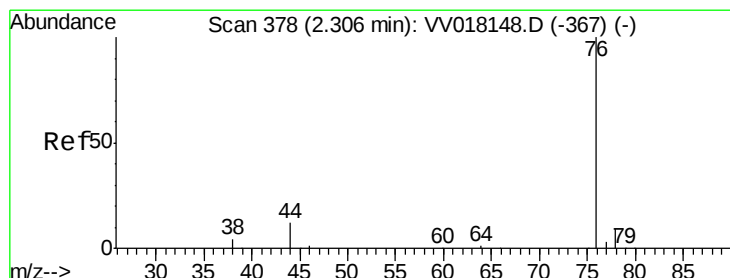
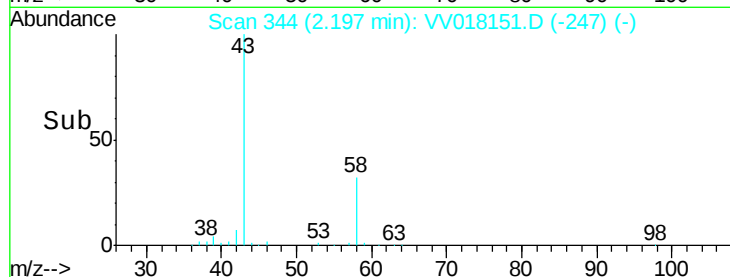
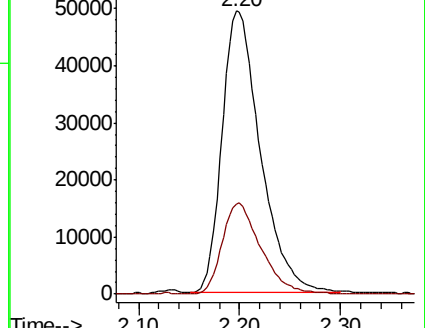
43 100

58 32.0 0.0 59.2



Abundance Ion 43.00 (42.70 to 43.70): VV018151.D (-247) (-)

Ion 58.00 (57.70 to 58.70): VV018151.D (-247) (-)



#14

Carbon disulfide

Concen: 62.560 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV018151.D

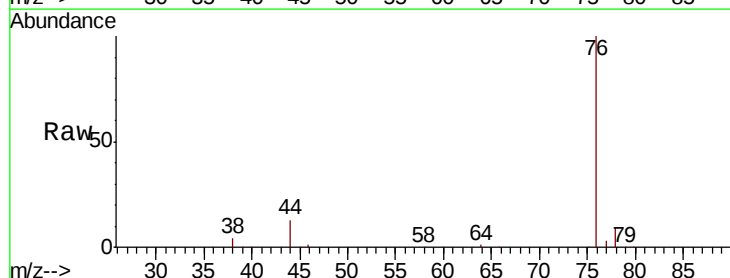
Acq: 03 Sep 2020 12:43

Tgt Ion: 76 Resp: 204132

Ion Ratio Lower Upper

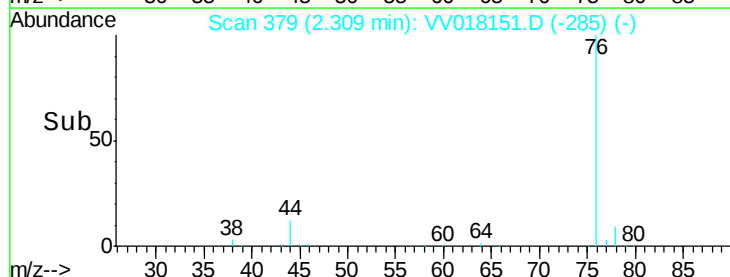
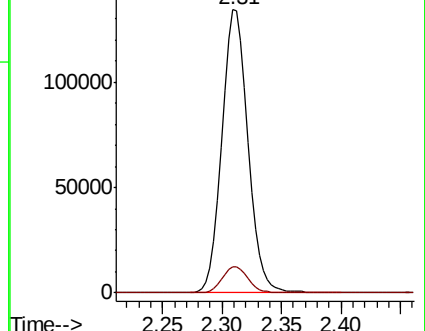
76 100

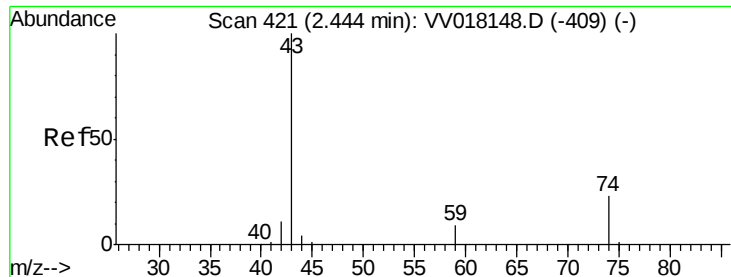
78 9.2 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV018151.D (-285) (-)

Ion 78.00 (77.70 to 78.70): VV018151.D (-285) (-)

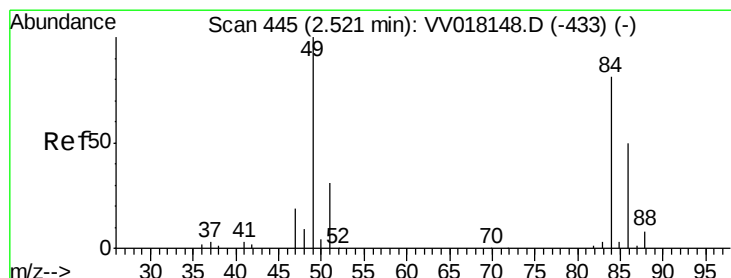
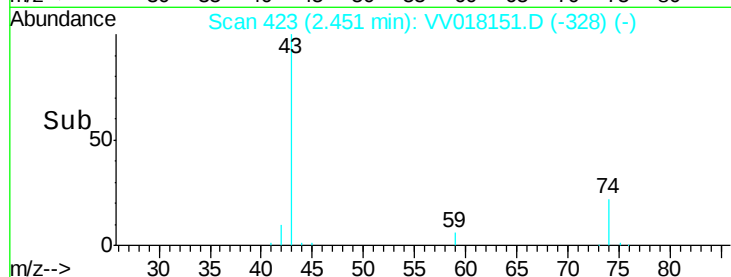
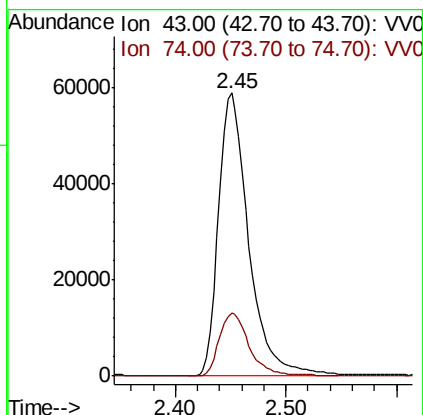
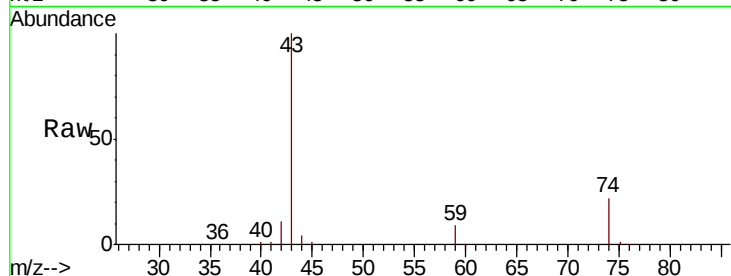




#15
Methvl Acetate
Concen: 87.746 ug/L
RT: 2.45 min Scan# 423
Delta R.T. 0.01 min
Lab File: VV018151.D
Acq: 03 Sep 2020 12:43

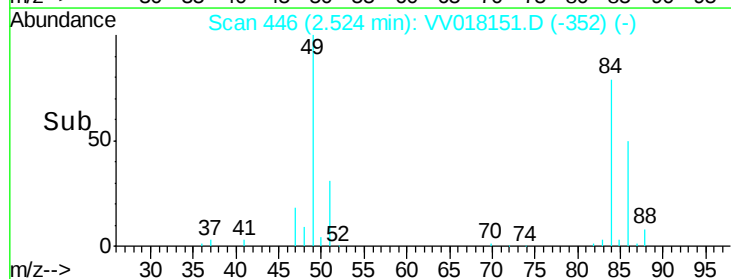
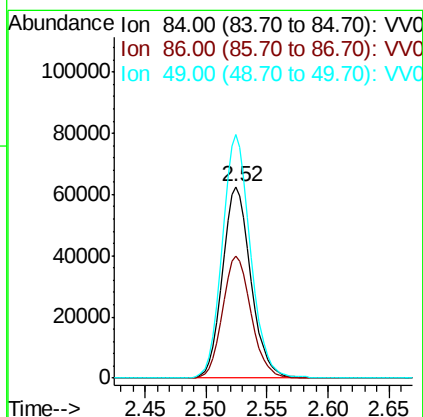
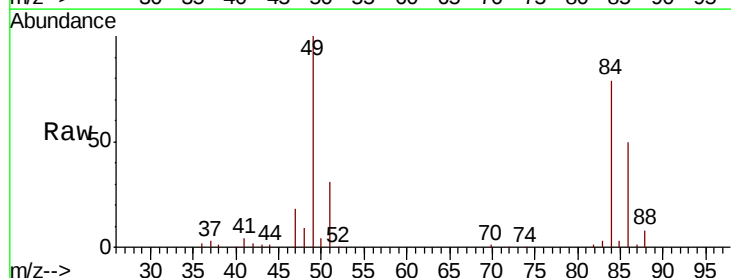
Instrument :
MSVOA_V
ClientSampleId :
A5169MSD

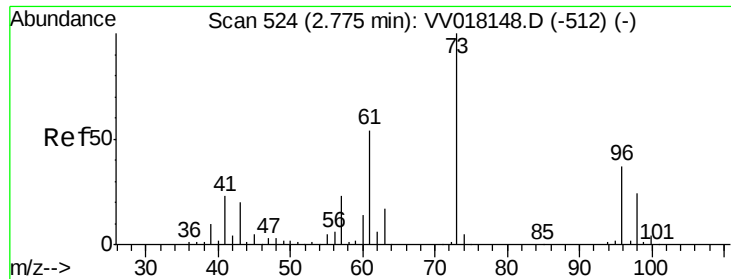
Tot Ion: 43 Resp: 110804
Ion Ratio Lower Upper
43 100
74 22.6 21.8 32.6



#16
Methylene chloride
Concen: 70.067 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV018151.D
Acq: 03 Sep 2020 12:43

Tgt Ion: 84 Resp: 102651
Ion Ratio Lower Upper
84 100
86 64.0 45.7 84.9
49 127.1 76.6 142.2





#17

trans-1,2-Dichloroethene

Concen: 64.337 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

A5169MSD

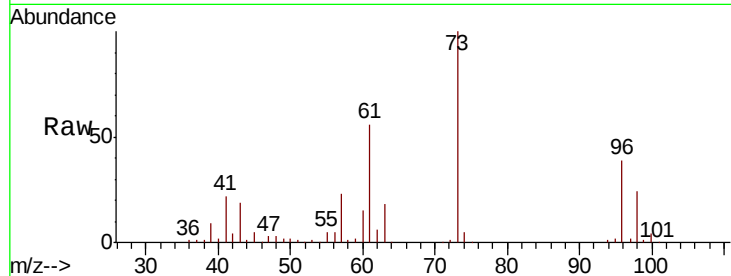
Tot Ion: 96 Resp: 87720

Ion Ratio Lower Upper

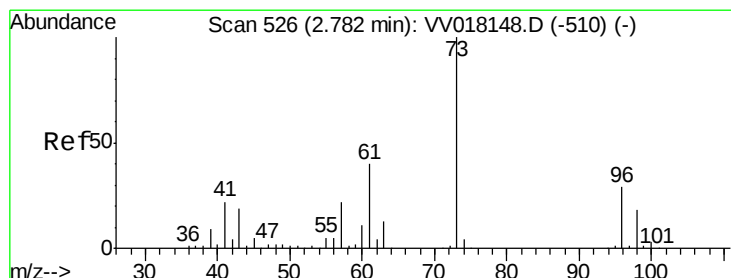
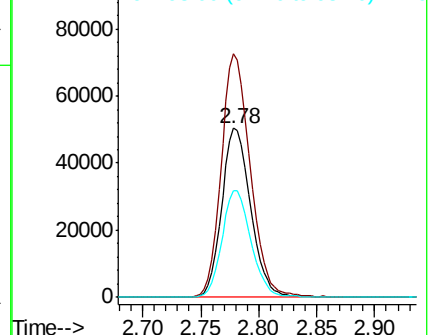
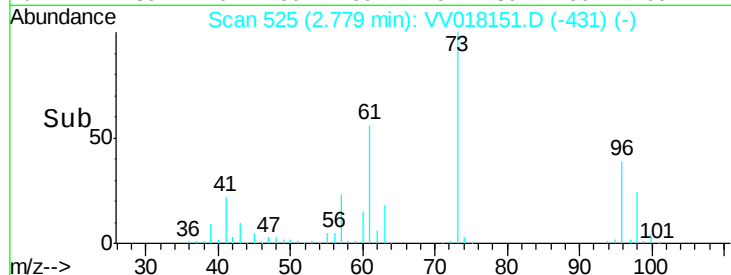
96 100

61 144.2 90.6 168.3

98 63.2 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VV018151.D (-431) (-)



#18

Methyl tert-butyl Ether

Concen: 67.726 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

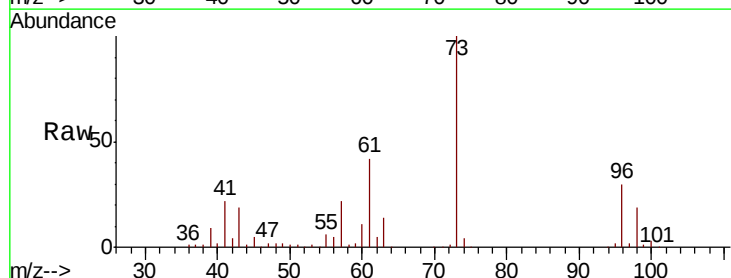
Tgt Ion: 73 Resp: 317294

Ion Ratio Lower Upper

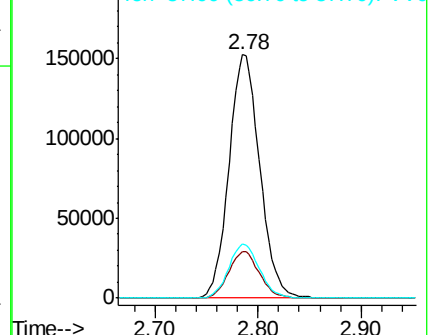
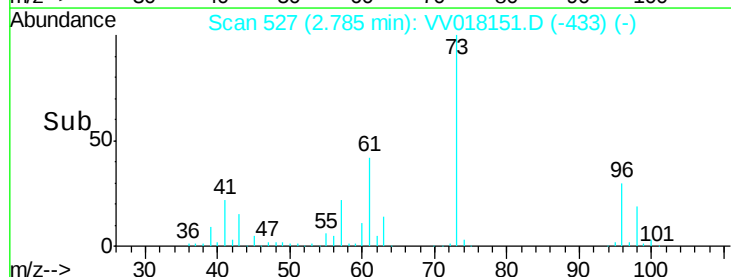
73 100

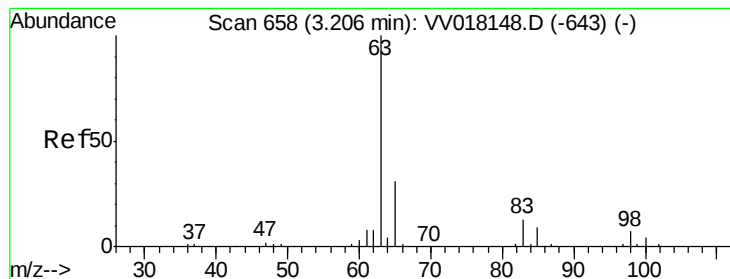
43 18.9 15.6 23.4

57 22.2 16.0 24.0



Abundance Ion 73.00 (72.70 to 73.70): VV018151.D (-433) (-)





#19

1,1-Dichloroethane

Concen: 73.659 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.01 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

A5169MSD

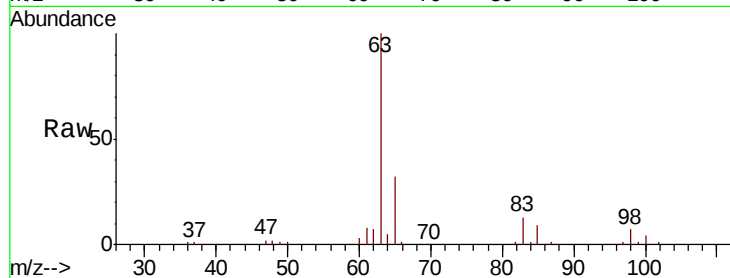
Tot Ion: 63 Resp: 183147

Ion Ratio Lower Upper

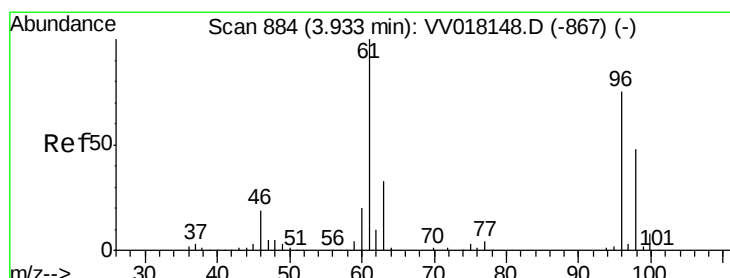
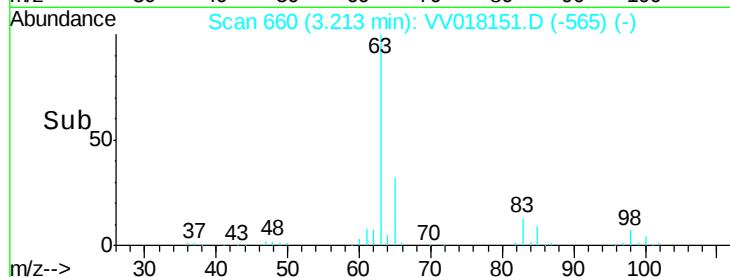
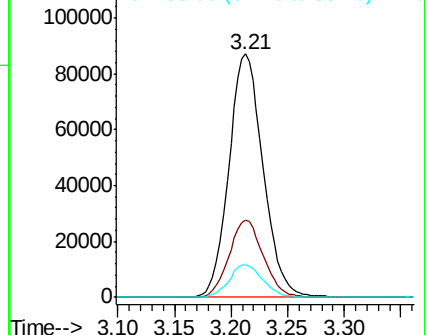
63 100

65 31.8 22.3 41.3

83 13.4 10.3 19.1



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: 64.248 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.01 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

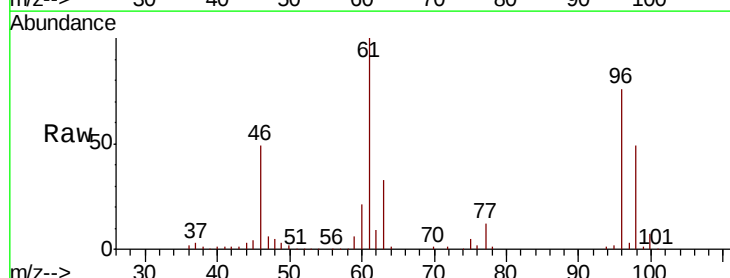
Tgt Ion: 96 Resp: 103179

Ion Ratio Lower Upper

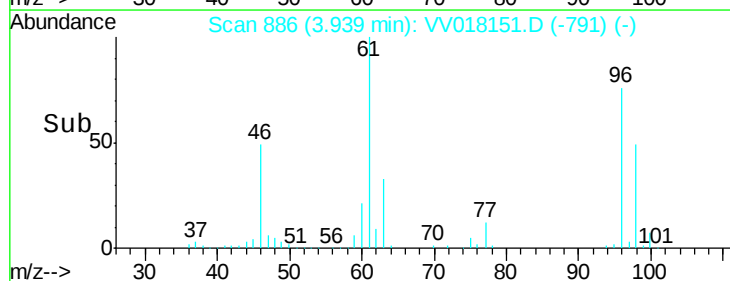
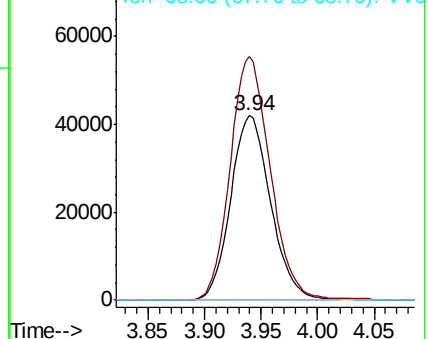
96 100

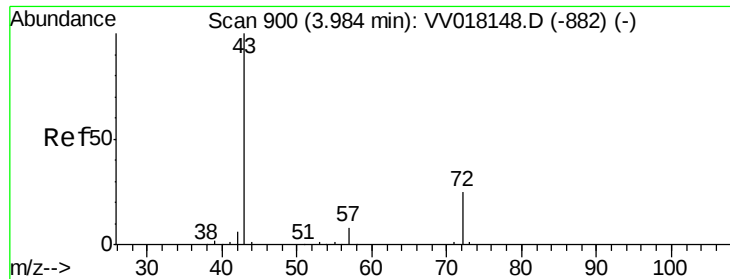
61 132.0 80.0 148.6

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: 179.320 ug/L

RT: 4.00 min Scan# 905

Delta R.T. 0.02 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

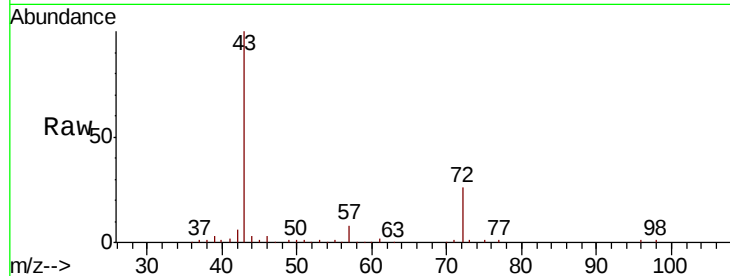
A5169MSD

Tot Ion: 43 Resp: 166789

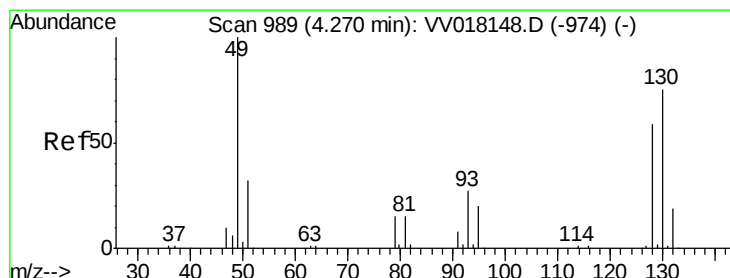
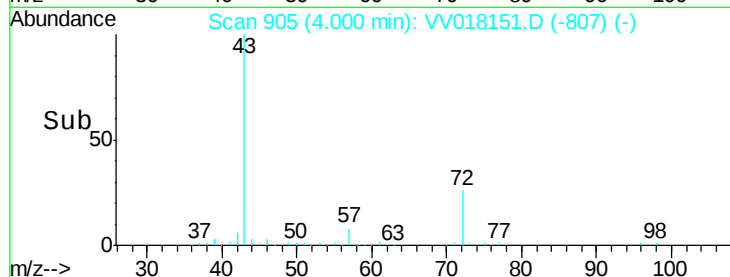
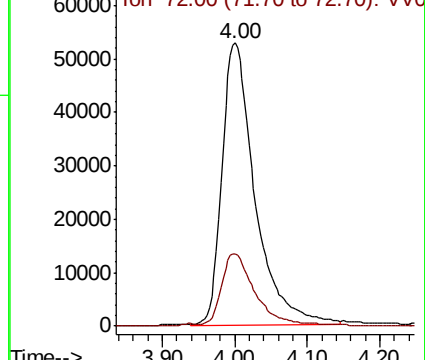
Ion Ratio Lower Upper

43 100

72 24.8 15.0 45.0



Abundance Ion 43.00 (42.70 to 43.70): VV018151.D (-807) (-)



#23

Bromochloromethane

Concen: 61.144 ug/L

RT: 4.28 min Scan# 991

Delta R.T. 0.01 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Tgt Ion: 128 Resp: 53995

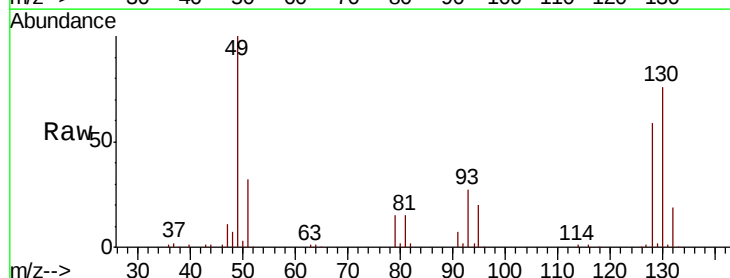
Ion Ratio Lower Upper

128 100

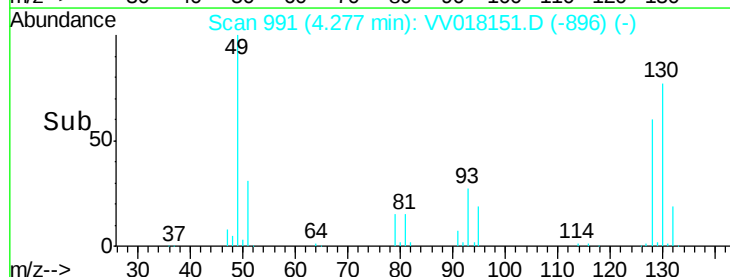
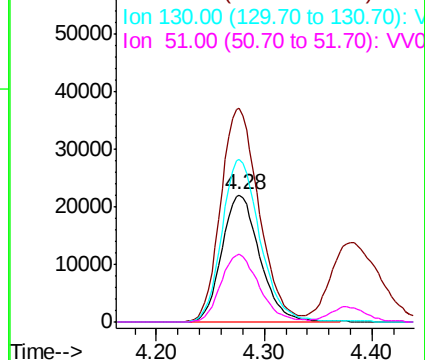
49 168.4 84.6 157.2#

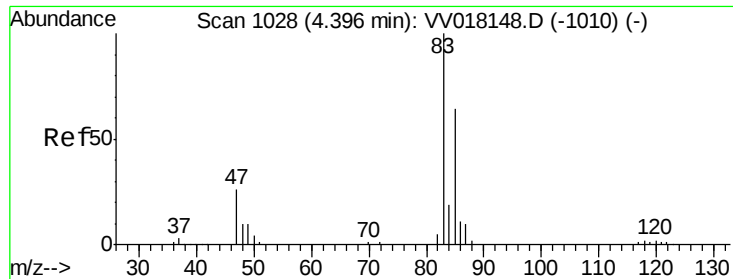
130 128.6 89.9 167.0

51 53.2 30.5 45.7#



Abundance Ion 128.00 (127.70 to 128.70): VV018151.D (-896) (-)

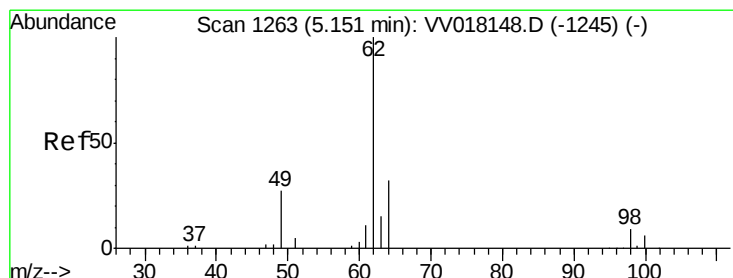
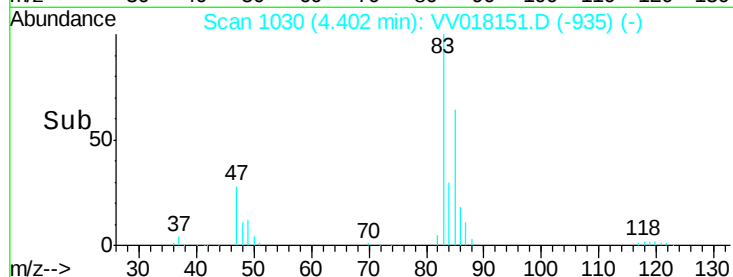
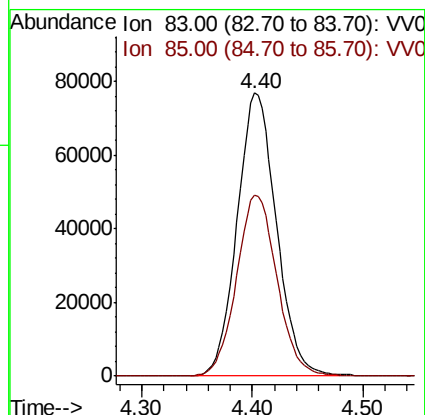
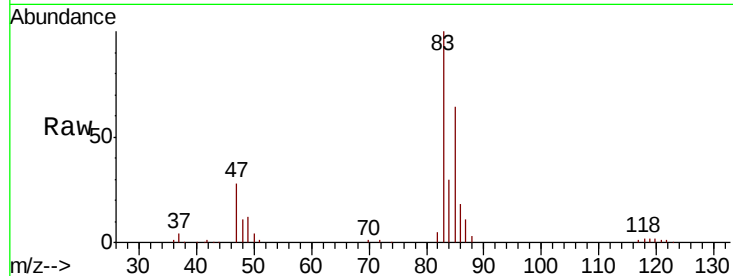




#25
Chloroform
Concen: 67.395 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.01 min
Lab File: VV018151.D
Acq: 03 Sep 2020 12:43

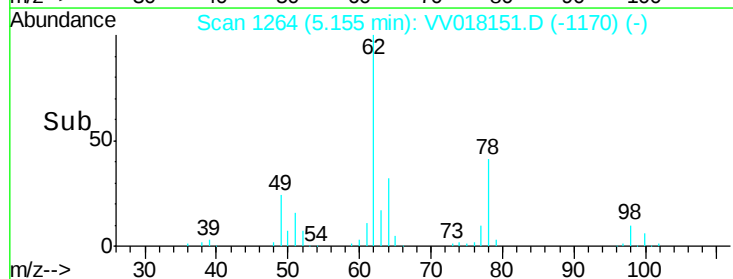
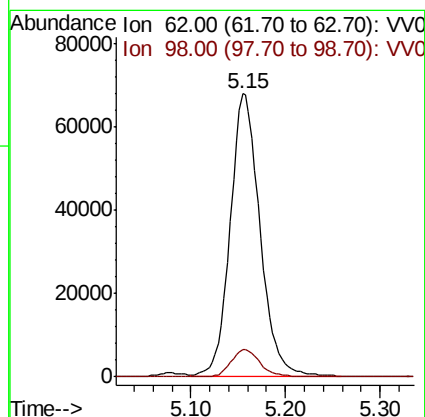
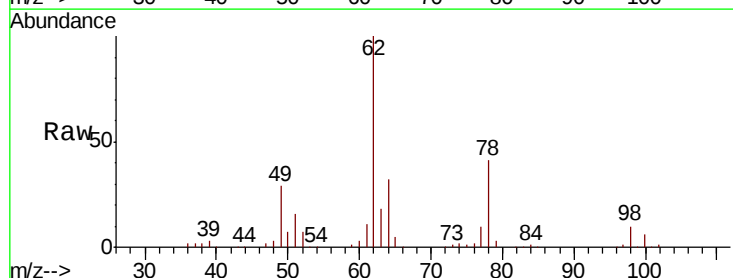
Instrument :
MSVOA_V
ClientSampleId :
A5169MSD

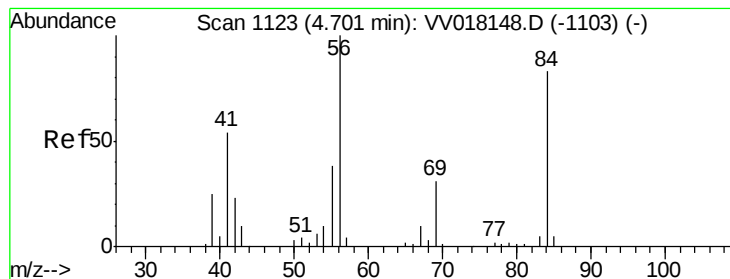
Tot Ion: 83 Resp: 189945
Ion Ratio Lower Upper
83 100
85 63.9 45.8 85.2



#27
1,2-Dichloroethane
Concen: 67.447 ug/L
RT: 5.15 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VV018151.D
Acq: 03 Sep 2020 12:43

Tgt Ion: 62 Resp: 147743
Ion Ratio Lower Upper
62 100
98 9.5 7.5 11.3





#29

Cyclohexane

Concen: 64.250 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

A5169MSD

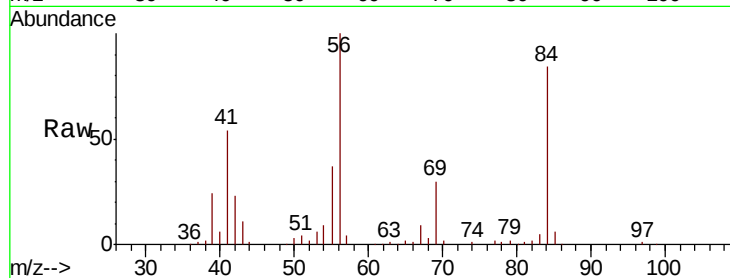
Tot Ion: 56 Resp: 139984

Ion Ratio Lower Upper

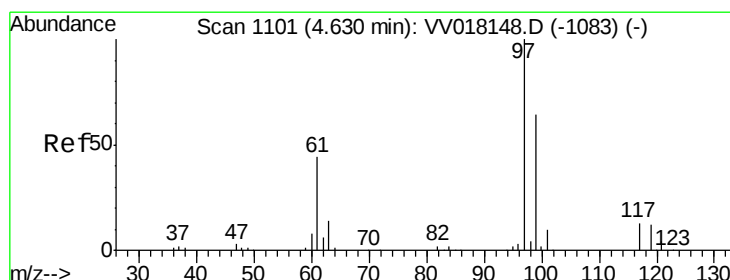
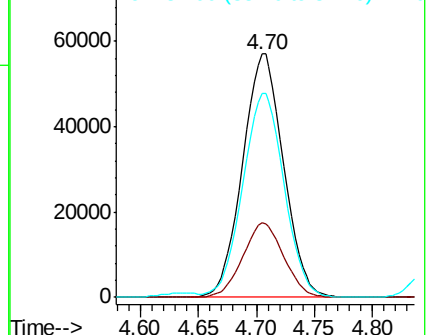
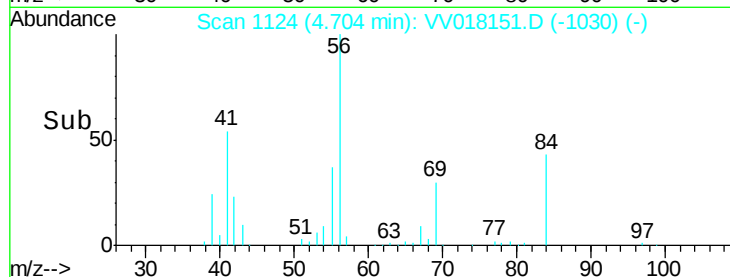
56 100

69 30.6 25.8 38.8

84 84.9 76.0 114.0



Abundance Ion 56.00 (55.70 to 56.70): VV018151.D (-1030) (-)



#30

1,1,1-Trichloroethane

Concen: 58.148 ug/L

RT: 4.64 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

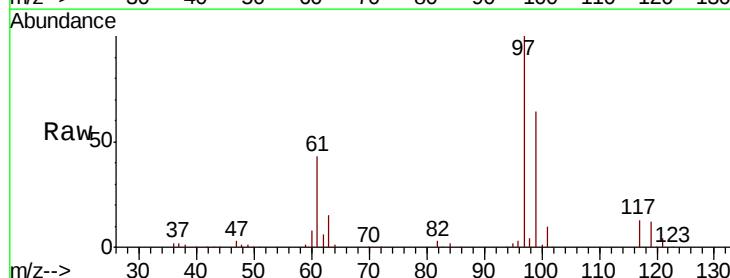
Tgt Ion: 97 Resp: 160942

Ion Ratio Lower Upper

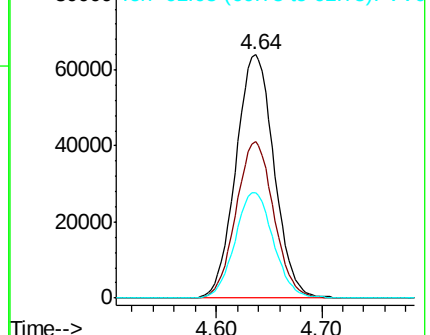
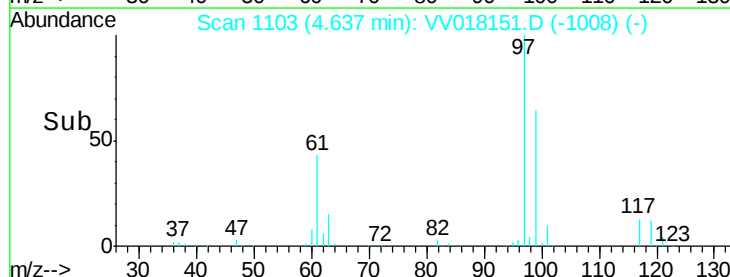
97 100

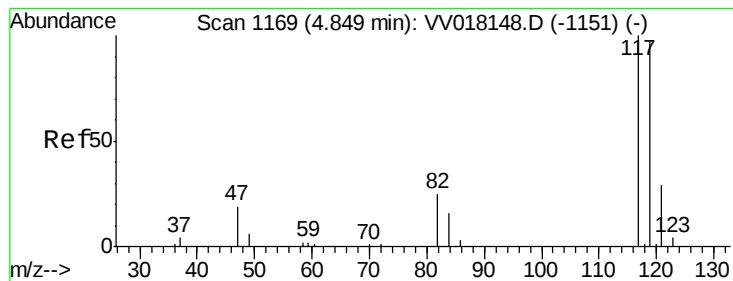
99 63.6 51.1 76.7

61 43.8 31.3 46.9



Abundance Ion 97.00 (96.70 to 97.70): VV018151.D (-1008) (-)





#31

Carbon tetrachloride

Concen: 52.675 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.01 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

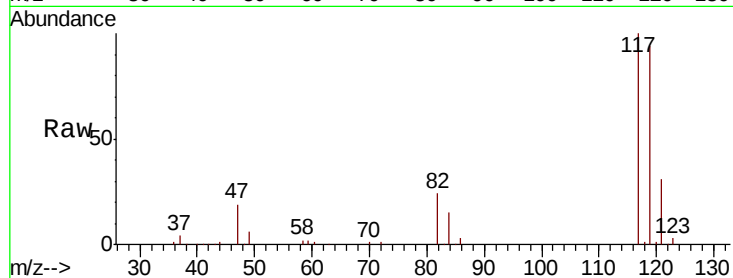
A5169MSD

Tot Ion:117 Resp: 135254

Ion Ratio Lower Upper

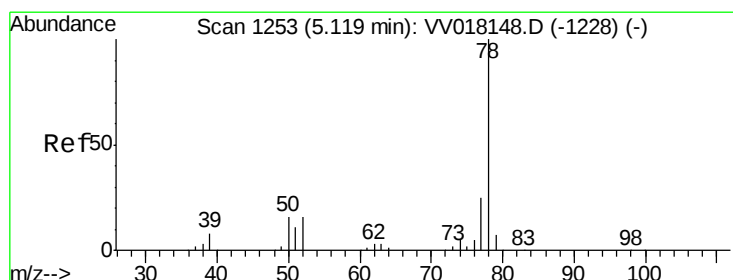
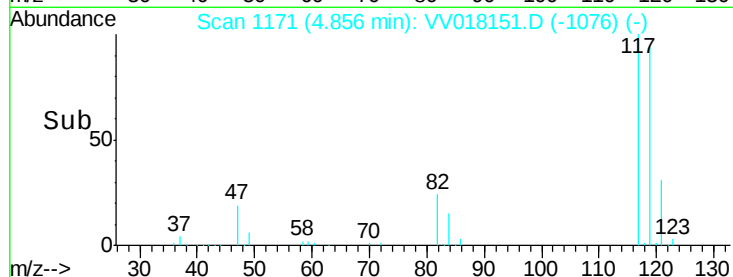
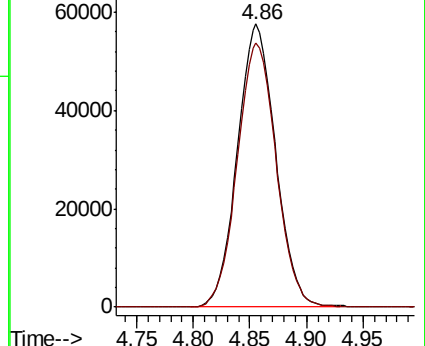
117 100

119 95.2 78.2 117.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 65.204 ug/L

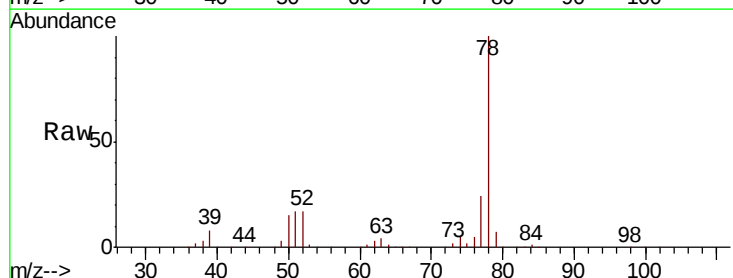
RT: 5.13 min Scan# 1255

Delta R.T. 0.01 min

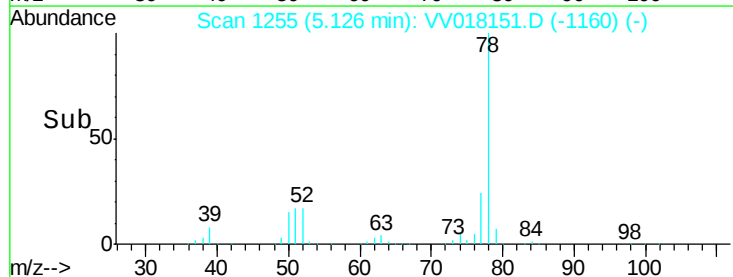
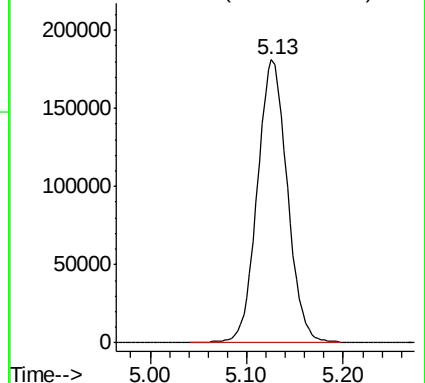
Lab File: VV018151.D

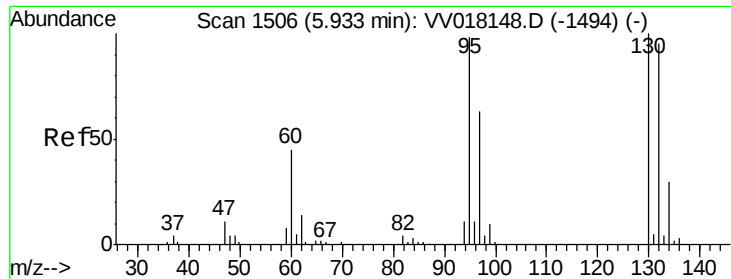
Acq: 03 Sep 2020 12:43

Tgt Ion: 78 Resp: 391084



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 61.982 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.01 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

A5169MSD

Tot Ion: 95 Resp: 103330

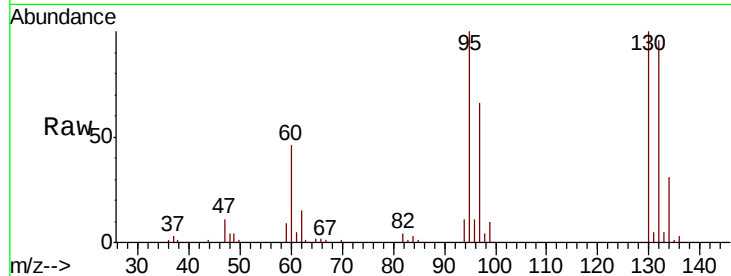
Ion Ratio Lower Upper

95 100

97 65.6 43.4 80.6

132 96.1 73.1 135.8

130 99.7 75.3 139.8



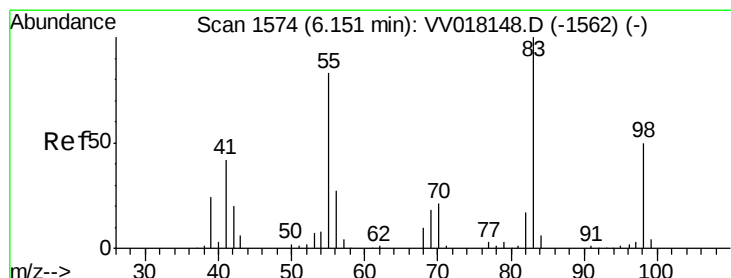
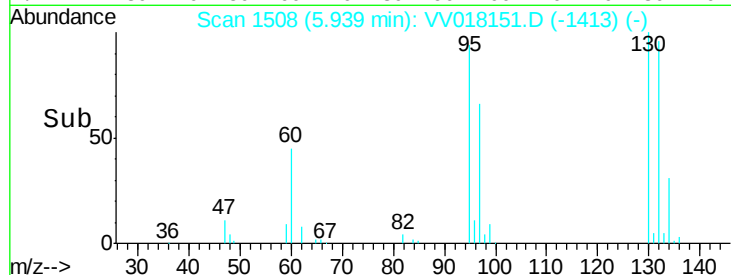
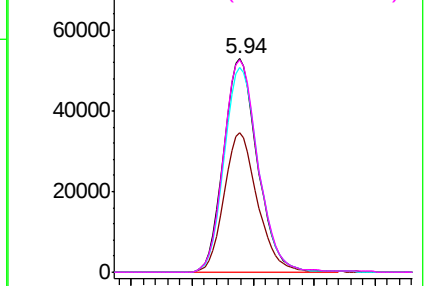
Abundance

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: 57.060 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

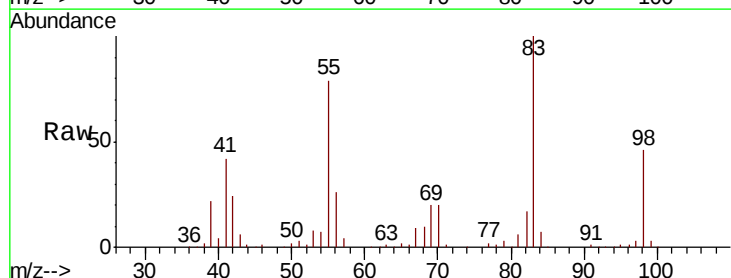
Tgt Ion: 83 Resp: 141583

Ion Ratio Lower Upper

83 100

55 79.0 55.5 83.3

98 47.5 38.5 57.7

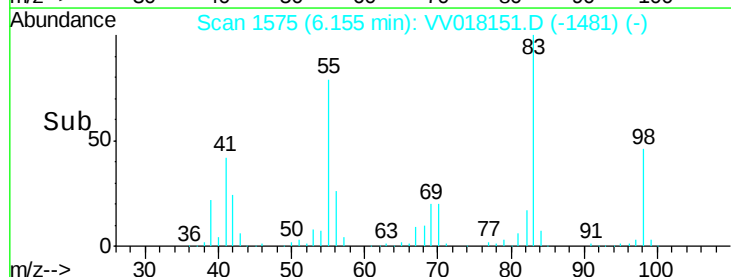
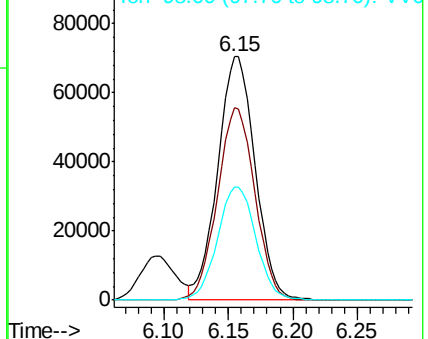


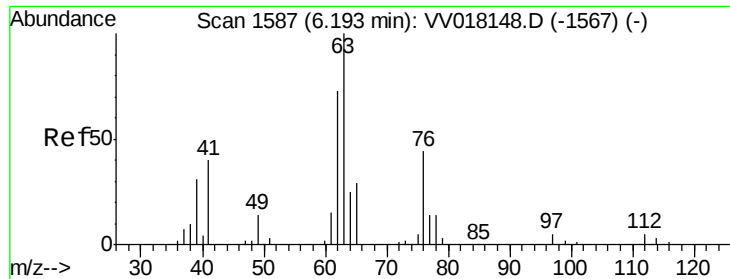
Abundance

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

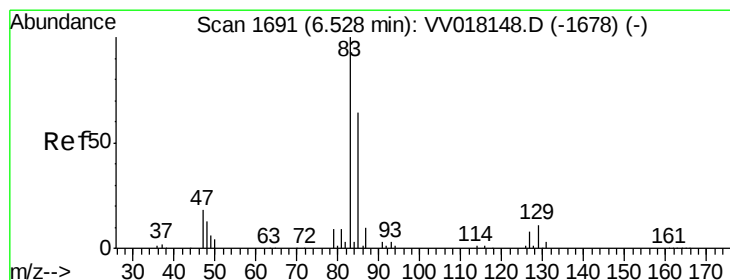
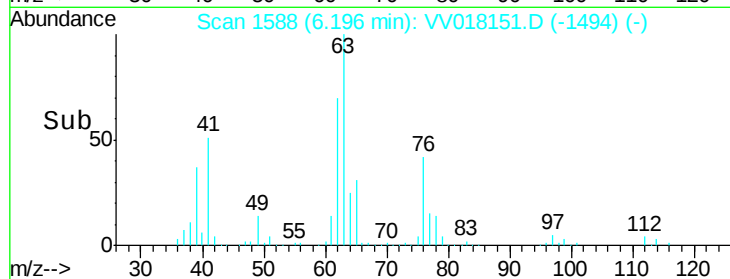
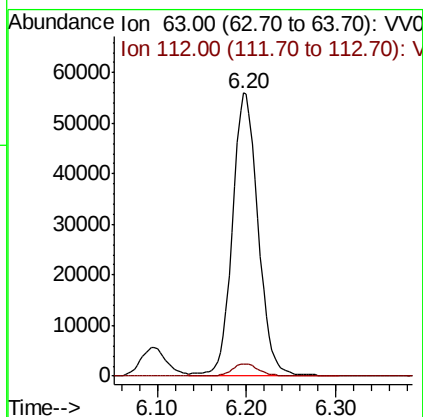
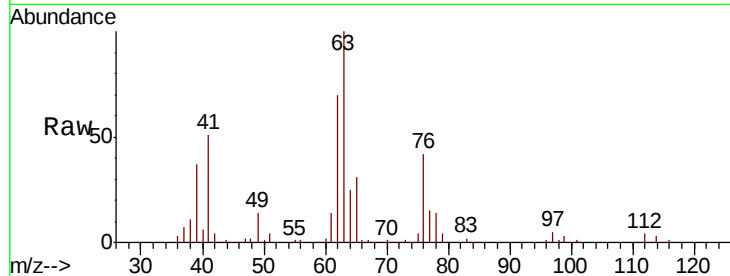




#37
 1,2-Dichloropropane
 Concen: 76.040 ug/L
 RT: 6.20 min Scan# 1588
 Delta R.T. 0.00 min
 Lab File: VV018151.D
 Acq: 03 Sep 2020 12:43

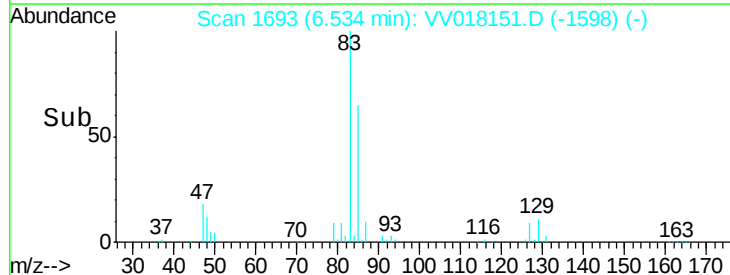
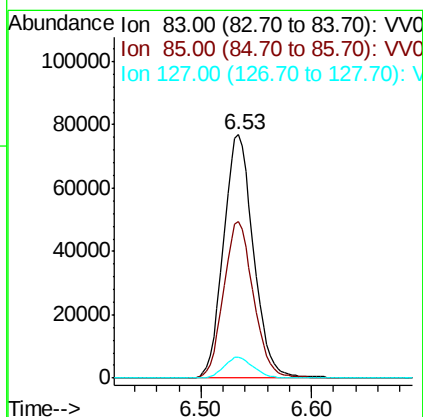
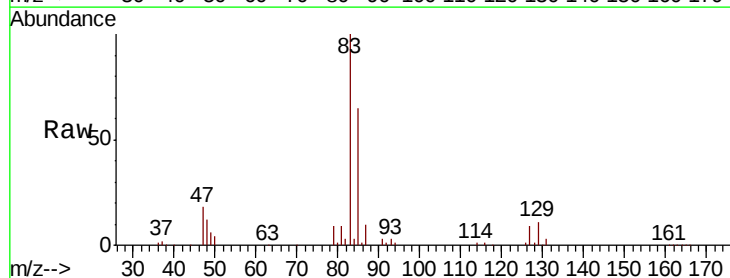
Instrument :
 MSVOA_V
 ClientSampleId :
 A5169MSD

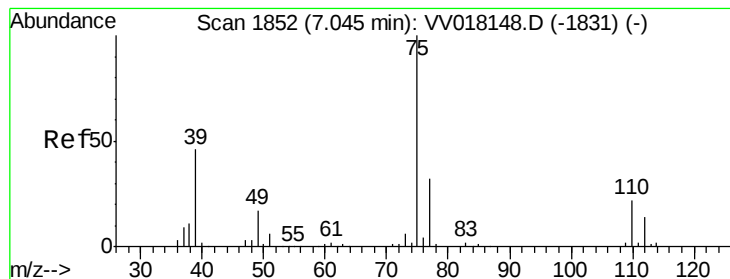
Tot Ion: 63 Resp: 111242
 Ion Ratio Lower Upper
 63 100
 112 4.5 4.2 6.2



#38
 Bromodichloromethane
 Concen: 63.022 ug/L
 RT: 6.53 min Scan# 1693
 Delta R.T. 0.01 min
 Lab File: VV018151.D
 Acq: 03 Sep 2020 12:43

Tgt Ion: 83 Resp: 145041
 Ion Ratio Lower Upper
 83 100
 85 64.5 45.0 83.6
 127 8.6 7.9 11.9



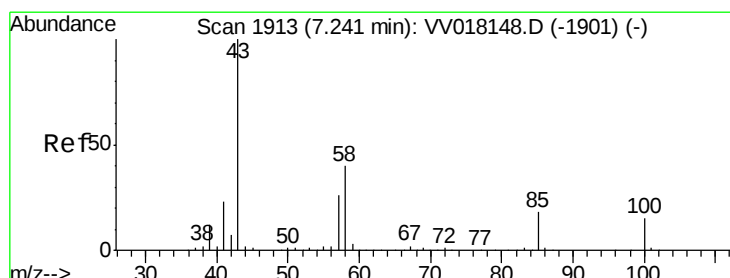
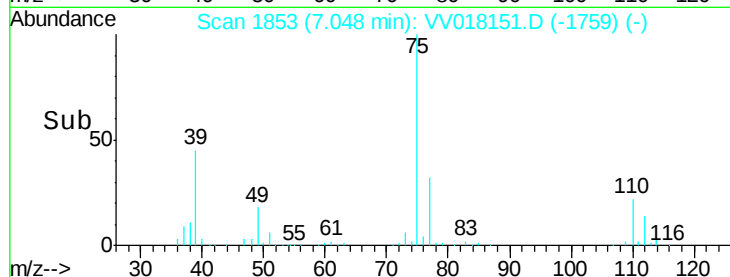
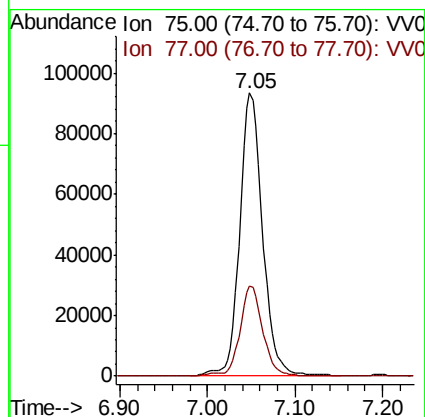
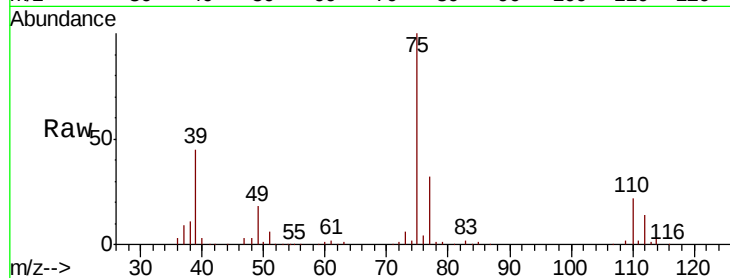


#39

cis-1,3-Dichloropropene
 Concen: 65.852 ug/L
 RT: 7.05 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VV018151.D
 Acq: 03 Sep 2020 12:43

Instrument :
 MSVOA_V
 ClientSampleId :
 A5169MSD

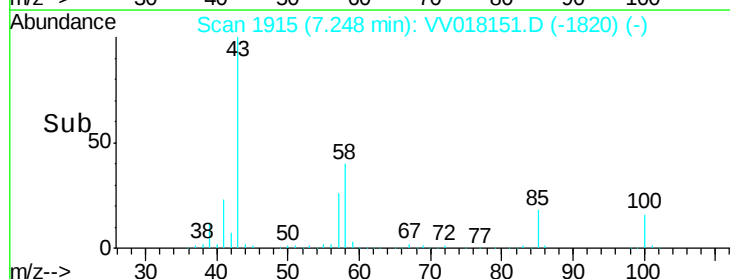
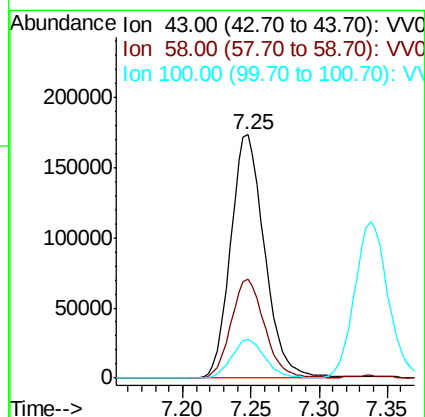
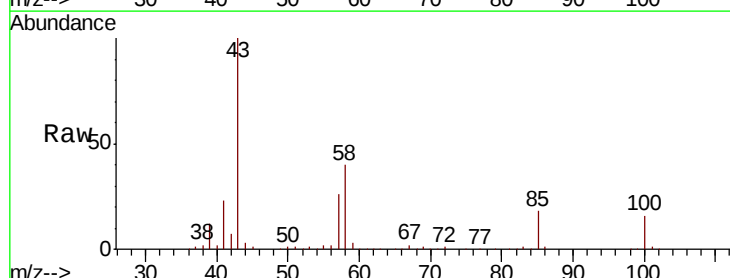
Tot Ion: 75 Resp: 169848
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.3 41.5

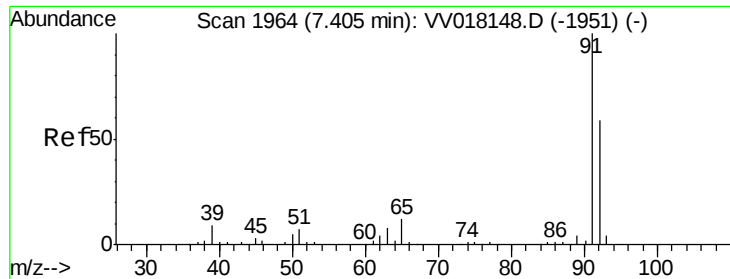


#40

4-Methyl-2-pentanone
 Concen: 159.676 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. 0.01 min
 Lab File: VV018151.D
 Acq: 03 Sep 2020 12:43

Tgt Ion: 43 Resp: 300650
 Ion Ratio Lower Upper
 43 100
 58 40.4 33.4 50.2
 100 15.6 15.0 22.4





#42

Toluene

Concen: 63.749 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

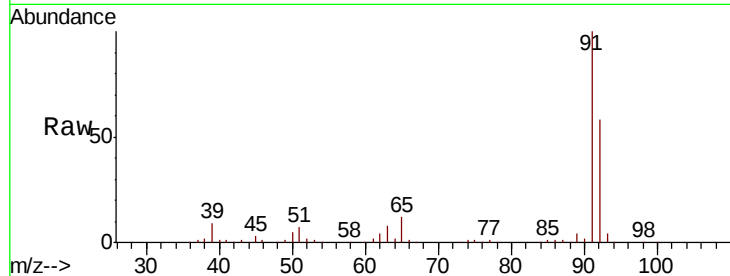
A5169MSD

Tot Ion: 91 Resp: 424856

Ion Ratio Lower Upper

91 100

92 57.5 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.41

250000

200000

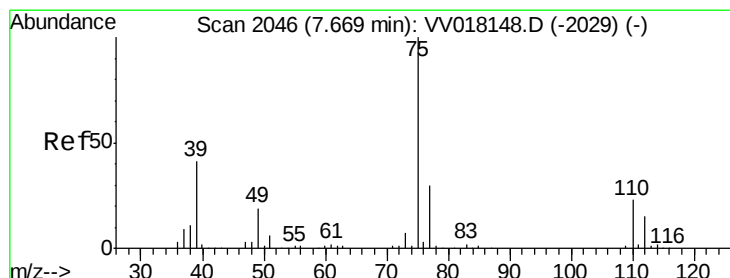
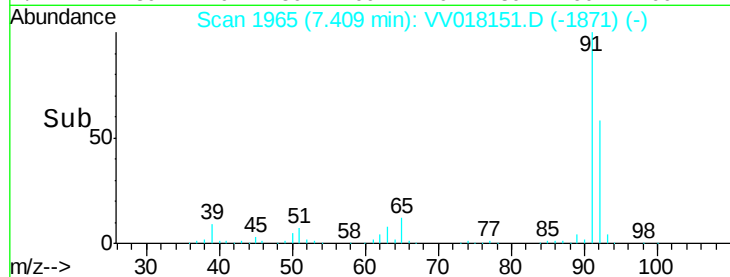
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 68.858 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VV018151.D

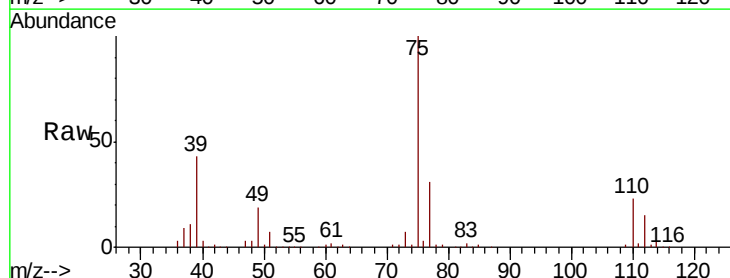
Acq: 03 Sep 2020 12:43

Tgt Ion: 75 Resp: 167653

Ion Ratio Lower Upper

75 100

77 31.3 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.67

100000

80000

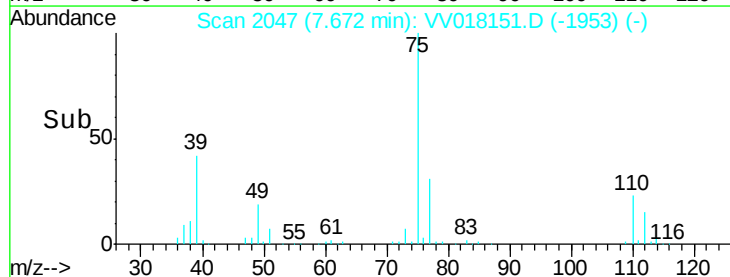
60000

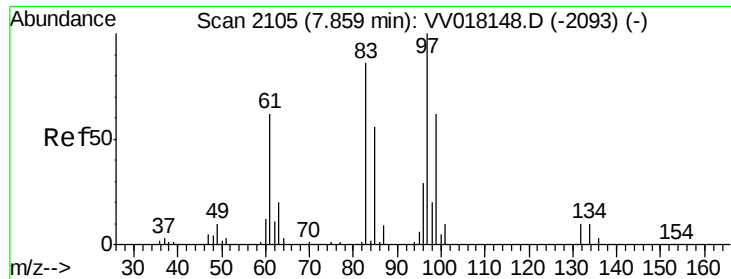
40000

20000

0

Time-->

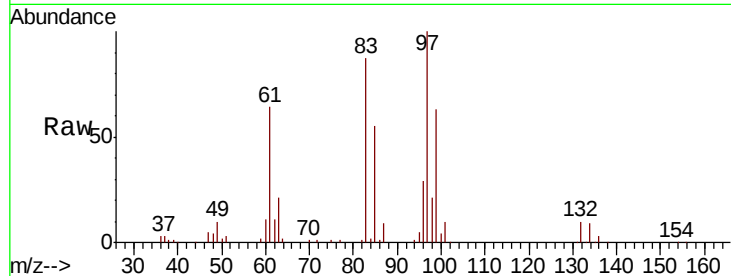




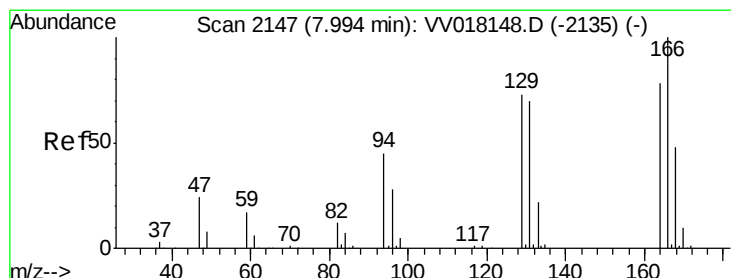
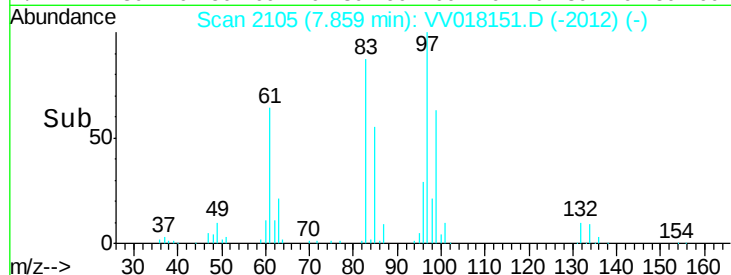
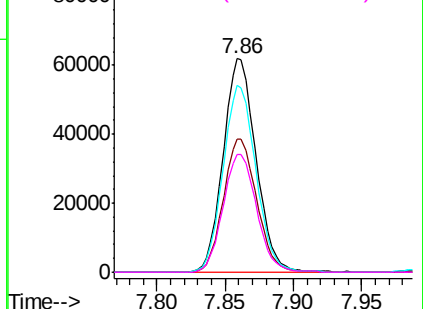
#45
1,1,2-Trichloroethane
Concen: 65.951 ug/L
RT: 7.86 min Scan# 2105
Delta R.T. 0.00 min
Lab File: VV018151.D
Acq: 03 Sep 2020 12:43

Instrument :
MSVOA_V
ClientSampleId :
A5169MSD

Tot Ion:	97	Resp:	104005
Ion	Ratio	Lower	Upper
97	100		
99	62.6	47.2	87.6
83	87.4	58.0	107.6
85	55.4	38.0	70.6

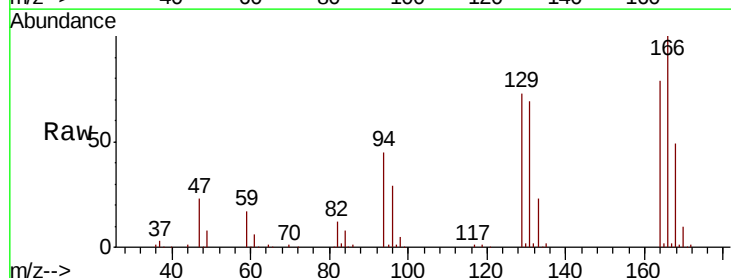


Abundance Ion 97.00 (96.70 to 97.70): VV018151.D (-2012) (-)

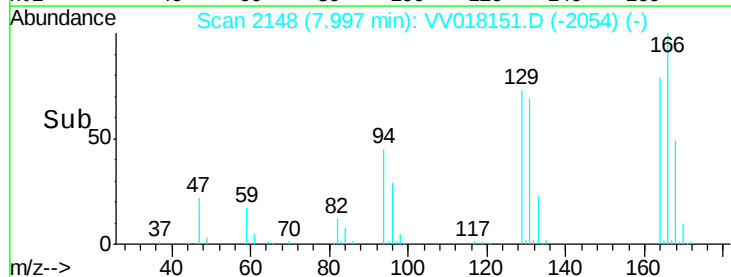
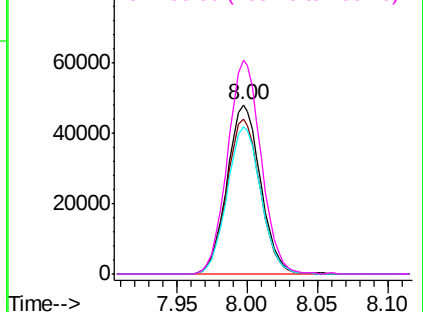


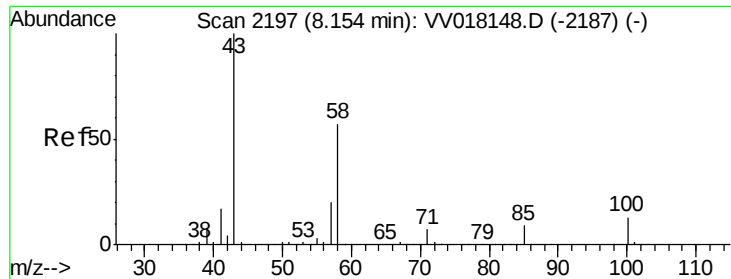
#46
Tetrachloroethene
Concen: 51.490 ug/L
RT: 8.00 min Scan# 2148
Delta R.T. 0.00 min
Lab File: VV018151.D
Acq: 03 Sep 2020 12:43

Tgt Ion:	164	Resp:	79978
Ion	Ratio	Lower	Upper
164	100		
129	91.8	64.3	119.5
131	86.8	60.1	111.7
166	126.2	91.8	170.6



Abundance Ion 164.00 (163.70 to 164.70): VV018151.D (-2054) (-)

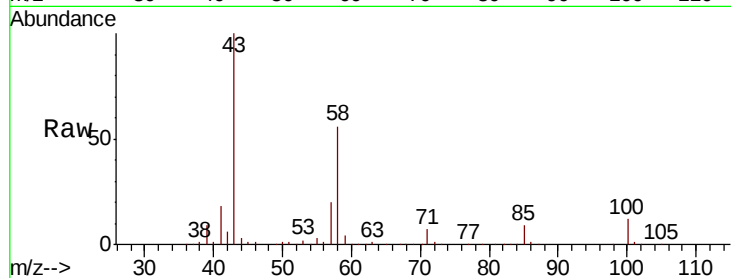




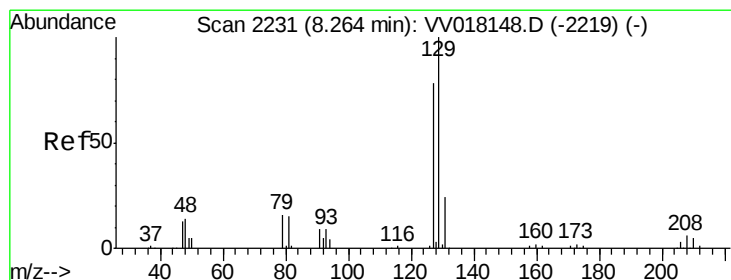
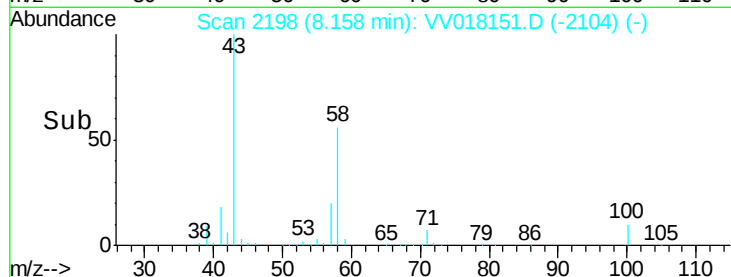
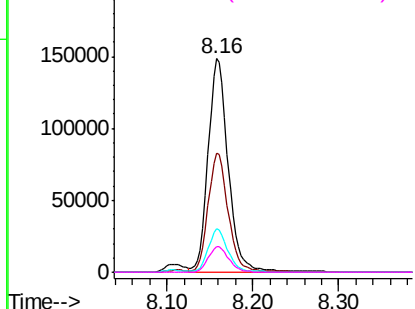
#48
2-Hexanone
Concen: 171.114 ug/L
RT: 8.16 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VV018151.D
Acq: 03 Sep 2020 12:43

Instrument :
MSVOA_V
ClientSampleId :
A5169MSD

Tot Ion: 43 Resp: 242902
Ion Ratio Lower Upper
43 100
58 55.2 45.6 68.4
57 19.3 17.0 25.6
100 12.0 11.5 17.3

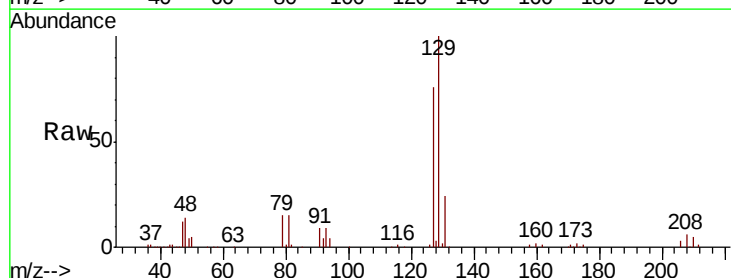


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

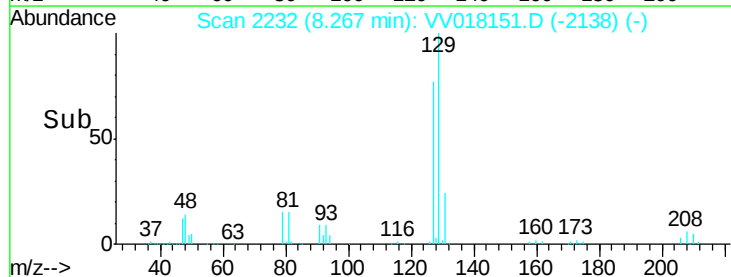
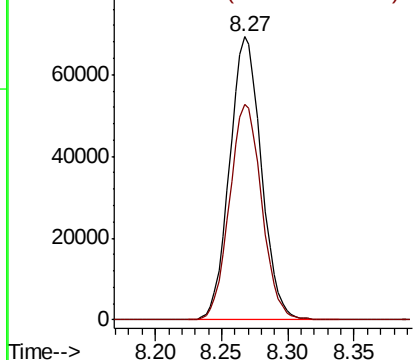


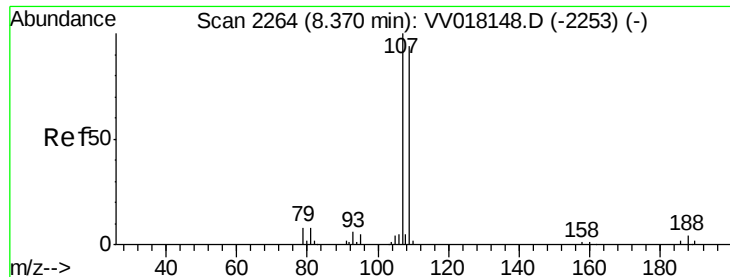
#49
Dibromochloromethane
Concen: 56.421 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV018151.D
Acq: 03 Sep 2020 12:43

Tgt Ion: 129 Resp: 115461
Ion Ratio Lower Upper
129 100
127 76.2 53.8 100.0



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

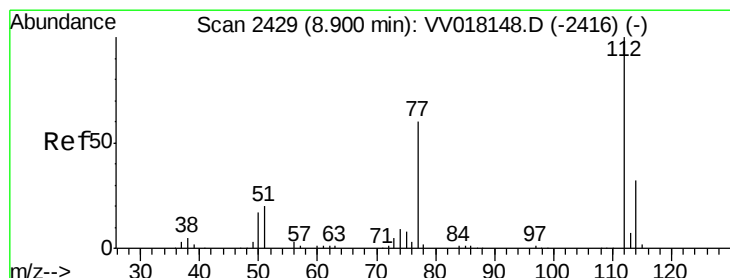
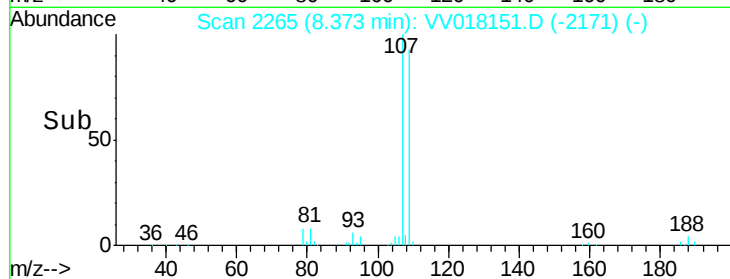
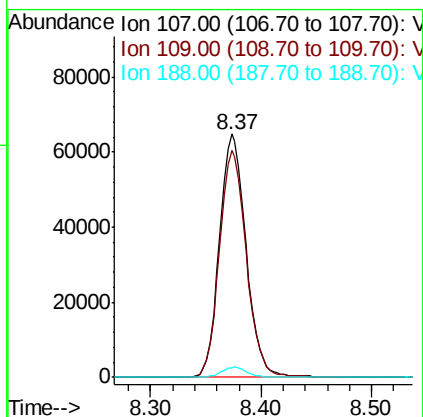
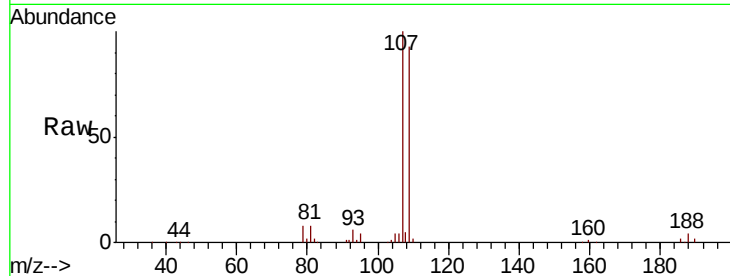




#50
 1,2-Dibromoethane
 Concen: 62.131 ug/L
 RT: 8.37 min Scan# 2265
 Delta R.T. 0.00 min
 Lab File: VV018151.D
 Acq: 03 Sep 2020 12:43

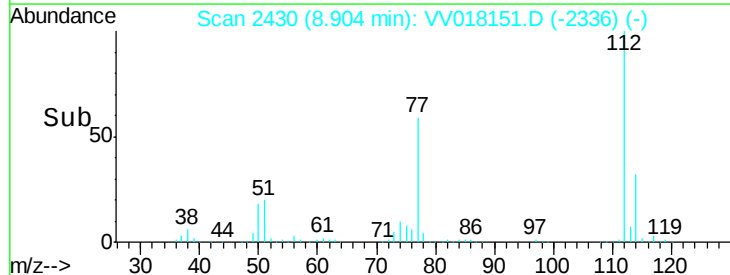
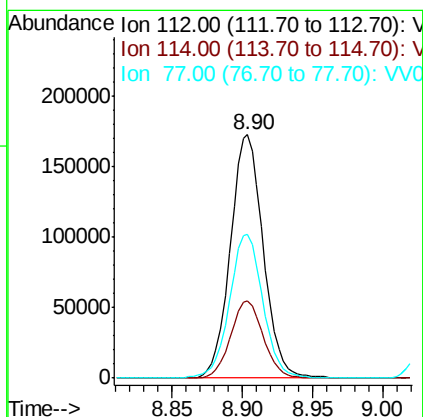
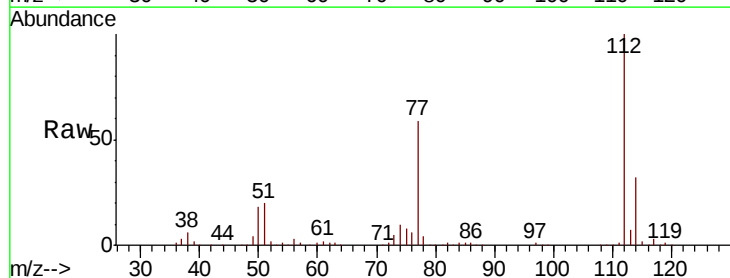
Instrument :
 MSVOA_V
 ClientSampleId :
 A5169MSD

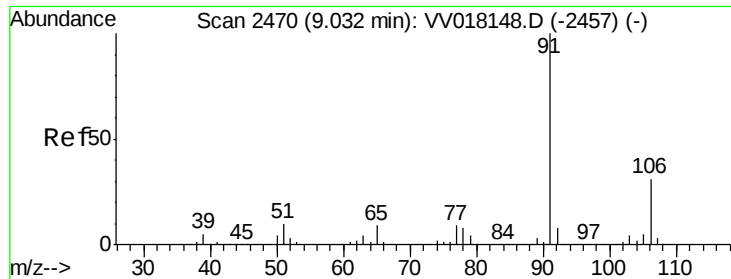
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.1	67.0	124.4
188	4.0	3.9	5.9



#51
 Chlorobenzene
 Concen: 62.460 ug/L
 RT: 8.90 min Scan# 2430
 Delta R.T. 0.00 min
 Lab File: VV018151.D
 Acq: 03 Sep 2020 12:43

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.8	42.4
77	59.1	44.7	67.1





#52

Ethylbenzene

Concen: 62.884 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

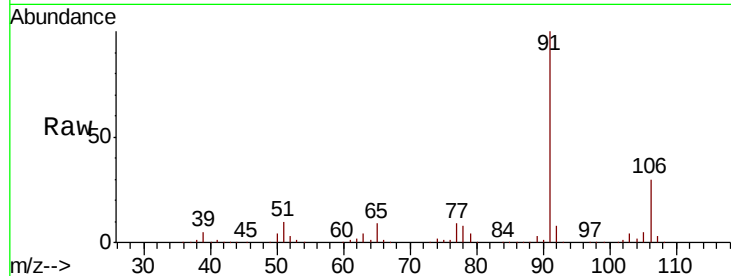
A5169MSD

Tot Ion: 91 Resp: 470241

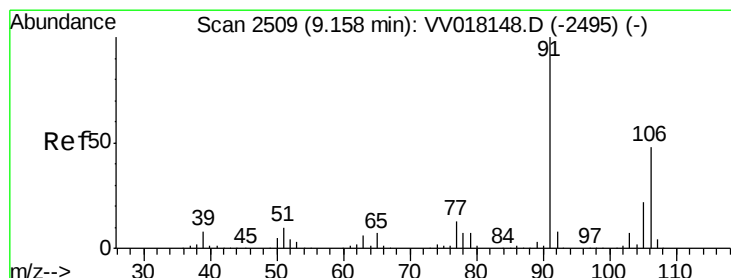
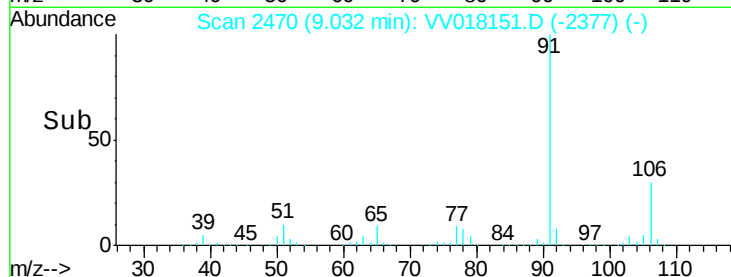
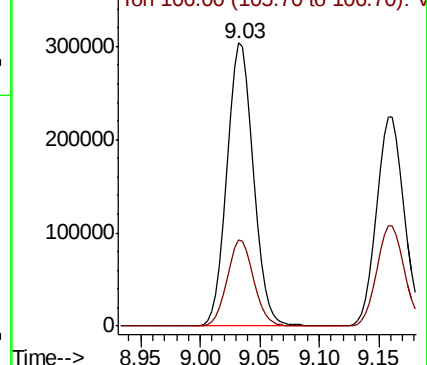
Ion Ratio Lower Upper

91 100

106 30.4 22.3 41.5



Abundance Ion 91.00 (90.70 to 91.70): VV018151.D (-2377) (-)



#53

m,p-Xylene

Concen: 60.528 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV018151.D

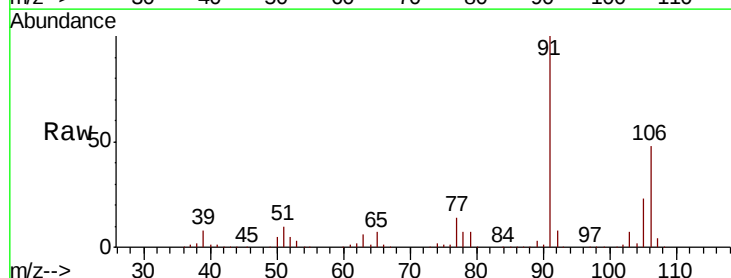
Acq: 03 Sep 2020 12:43

Tgt Ion: 106 Resp: 174607

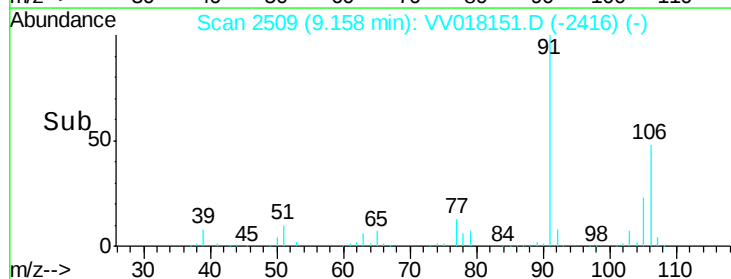
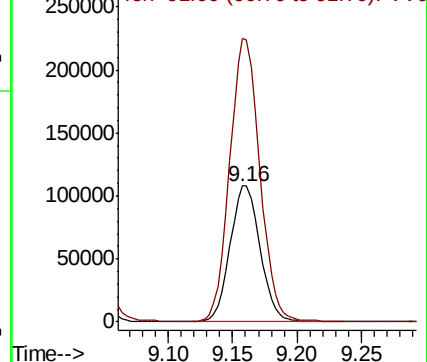
Ion Ratio Lower Upper

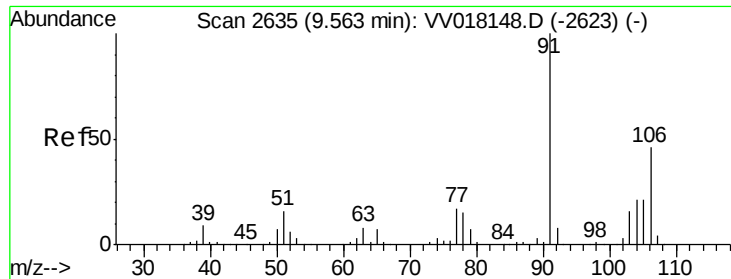
106 100

91 208.3 146.7 272.5



Abundance Ion 106.00 (105.70 to 106.70): VV018151.D (-2416) (-)

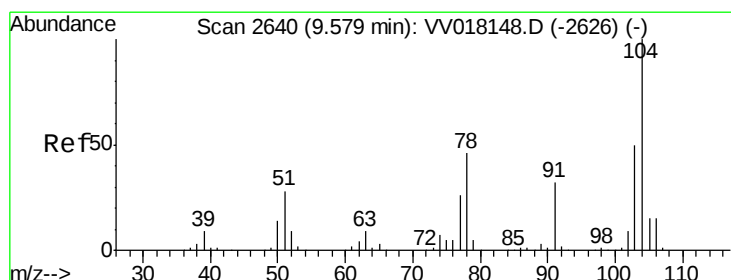
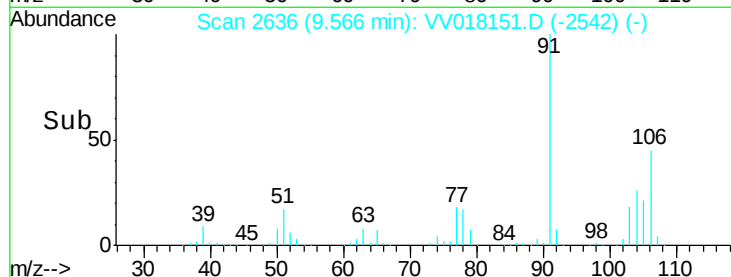
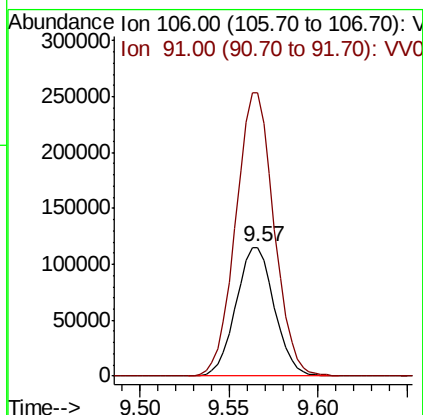
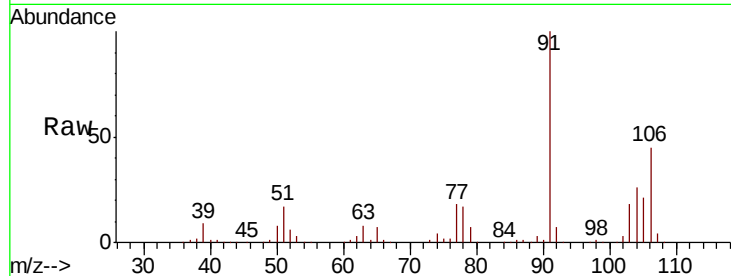




#54
o-Xylene
Concen: 60.556 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV018151.D
Acq: 03 Sep 2020 12:43

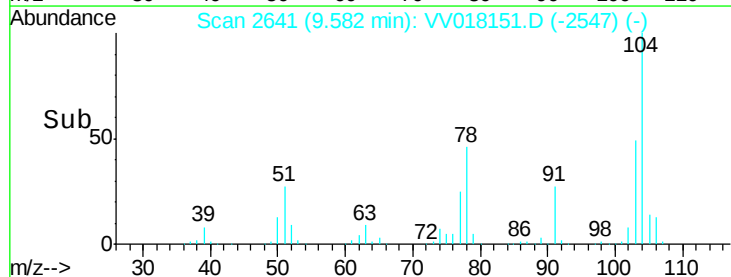
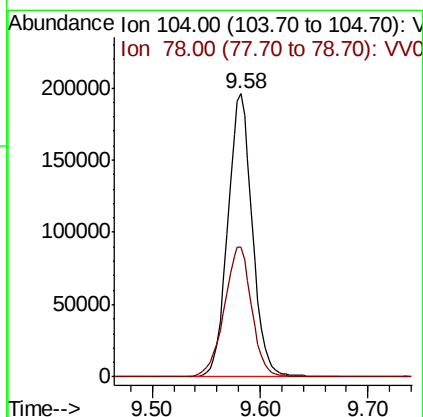
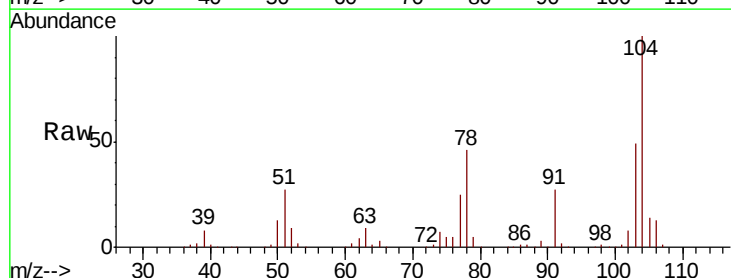
Instrument :
MSVOA_V
ClientSampleId :
A5169MSD

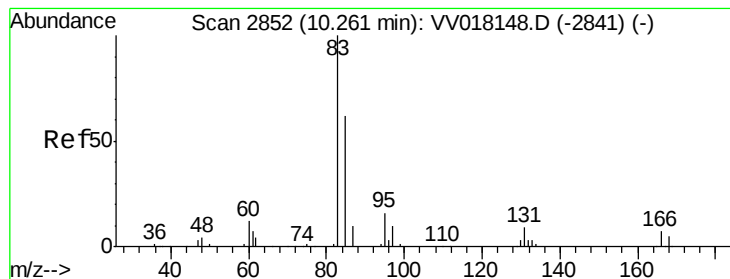
Tot Ion:106 Resp: 173345
Ion Ratio Lower Upper
106 100
91 220.2 150.4 279.2



#55
Styrene
Concen: 64.448 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. 0.00 min
Lab File: VV018151.D
Acq: 03 Sep 2020 12:43

Tgt Ion:104 Resp: 310780
Ion Ratio Lower Upper
104 100
78 45.8 32.0 59.4





#57

1,1,2,2-Tetrachloroethane

Concen: 68.037 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

A5169MSD

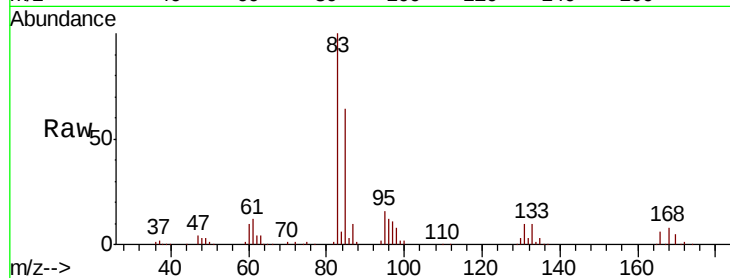
Tot Ion: 83 Resp: 164997

Ion Ratio Lower Upper

83 100

85 63.8 44.6 82.8

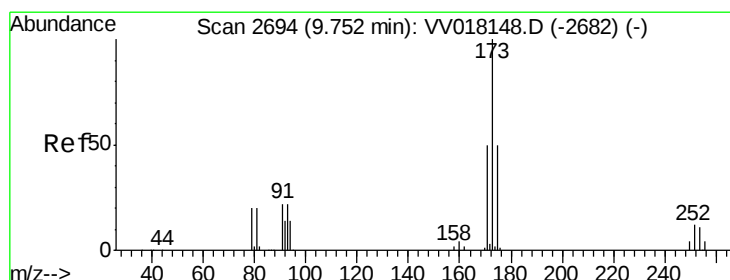
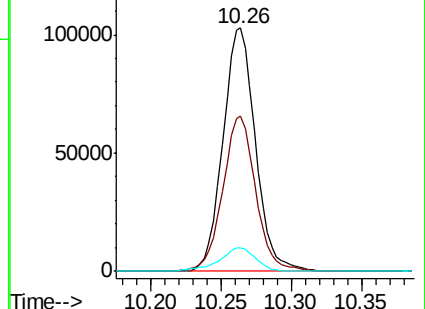
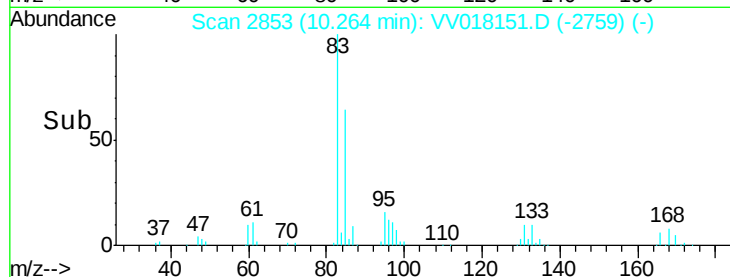
131 9.7 9.3 13.9



Abundance Ion 83.00 (82.70 to 83.70): VV018151.D (-2759) (-)

Ion 85.00 (84.70 to 85.70): VV018151.D (-2759) (-)

Ion 131.00 (130.70 to 131.70): VV018151.D (-2759) (-)



#59

Bromoform

Concen: 50.965 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

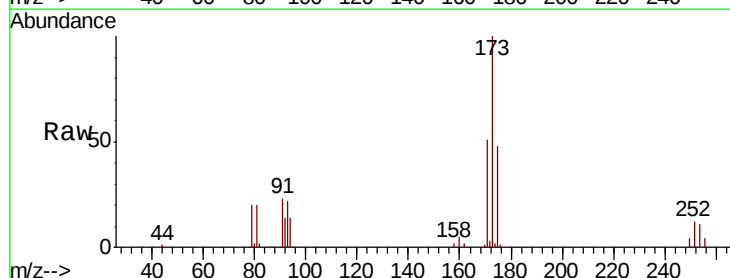
Tgt Ion: 173 Resp: 86606

Ion Ratio Lower Upper

173 100

175 48.5 38.3 57.5

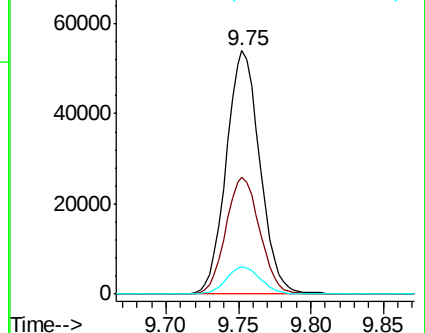
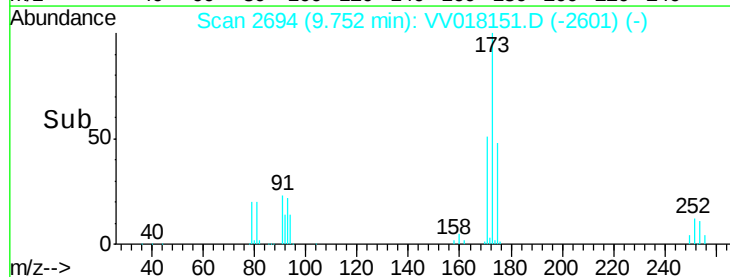
254 11.4 8.9 13.3

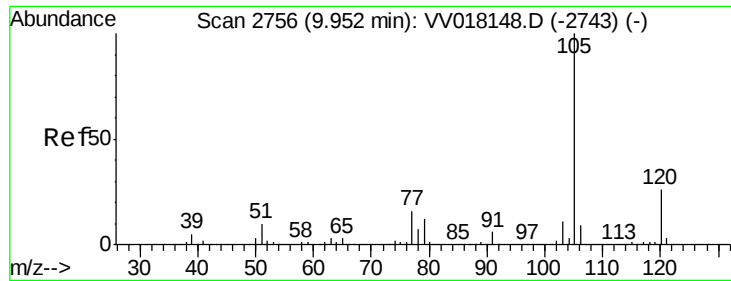


Abundance Ion 173.00 (172.70 to 173.70): VV018151.D (-2601) (-)

Ion 175.00 (174.70 to 175.70): VV018151.D (-2601) (-)

Ion 254.00 (253.70 to 254.70): VV018151.D (-2601) (-)





#60

Isopropylbenzene

Concen: 59.153 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

A5169MSD

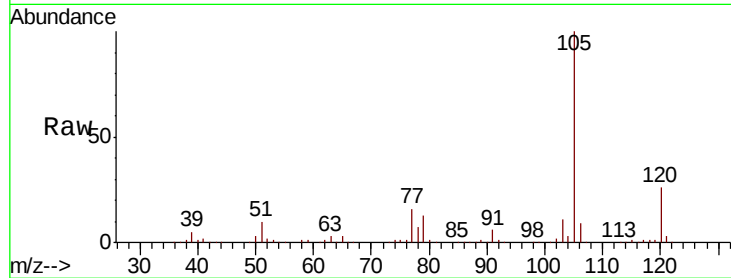
Tot Ion:105 Resp: 469122

Ion Ratio Lower Upper

105 100

120 26.1 21.4 32.0

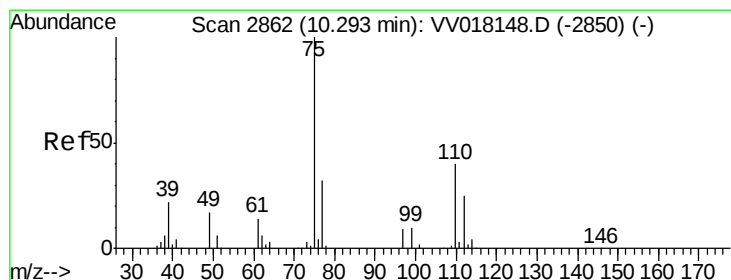
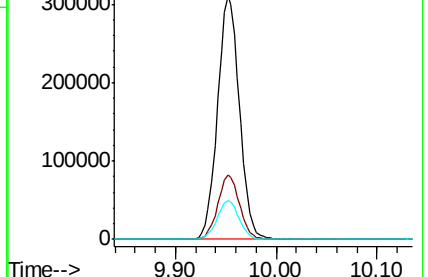
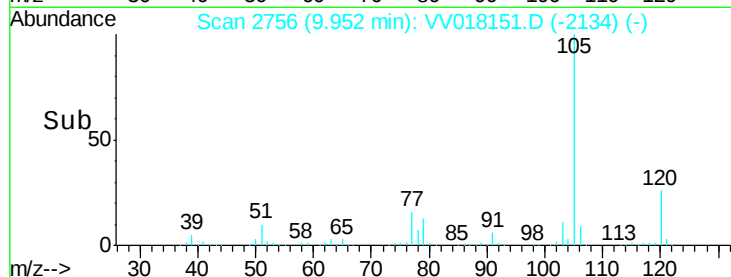
77 16.0 11.6 17.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 70.420 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VV018151.D

Acq: 03 Sep 2020 12:43

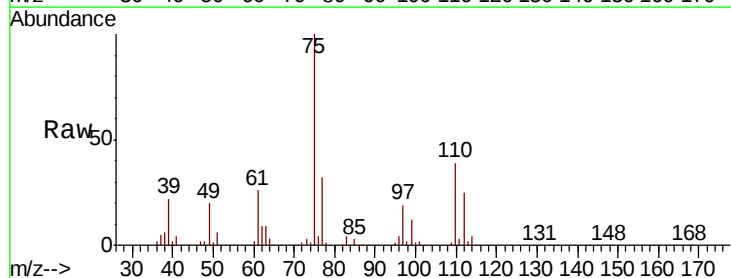
Tgt Ion: 75 Resp: 138532

Ion Ratio Lower Upper

75 100

77 32.0 25.7 38.5

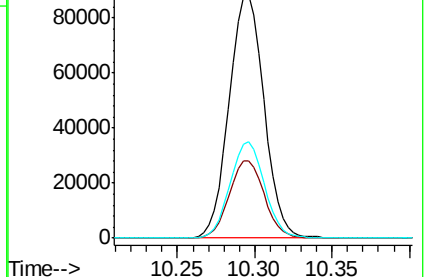
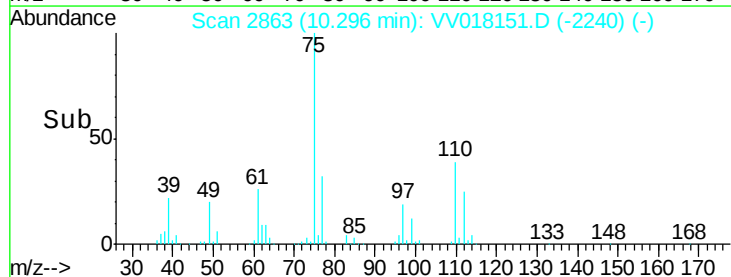
110 38.9 34.2 51.4

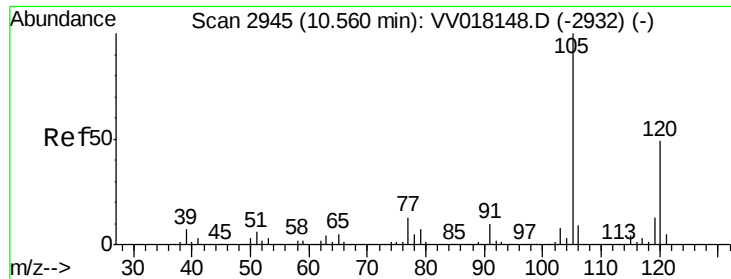


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 110.00 (109.70 to 110.70): V

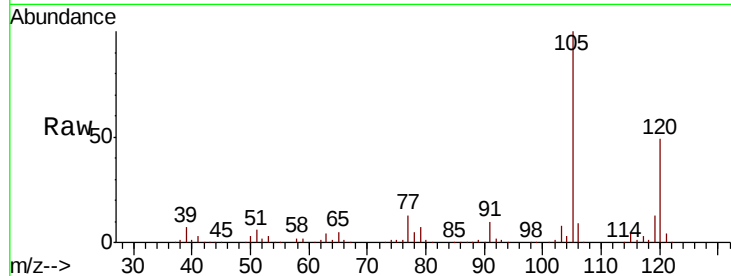




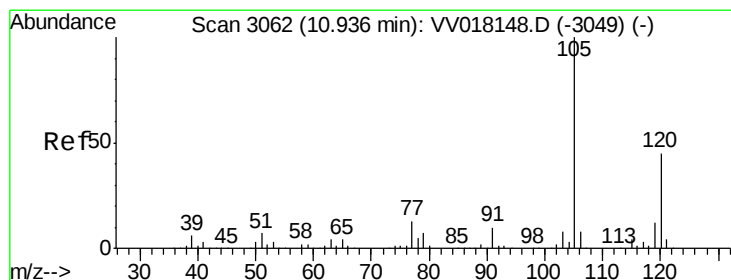
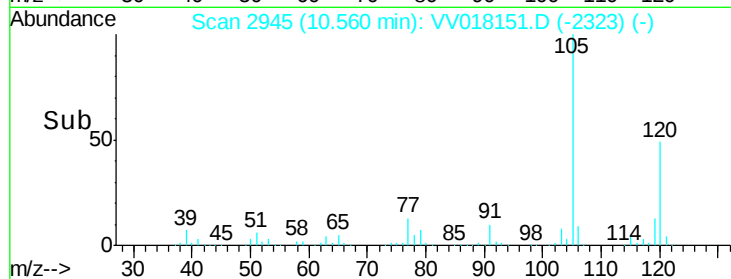
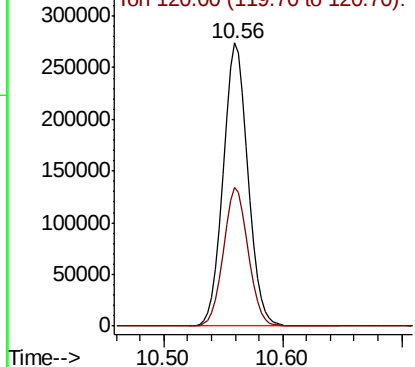
#62
 1,3,5-Trimethylbenzene
 Concen: 57.568 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. 0.00 min
 Lab File: VV018151.D
 Acq: 03 Sep 2020 12:43

Instrument :
 MSVOA_V
 ClientSampleId :
 A5169MSD

Tot Ion:105 Resp: 394690
 Ion Ratio Lower Upper
 105 100
 120 48.8 39.2 58.8

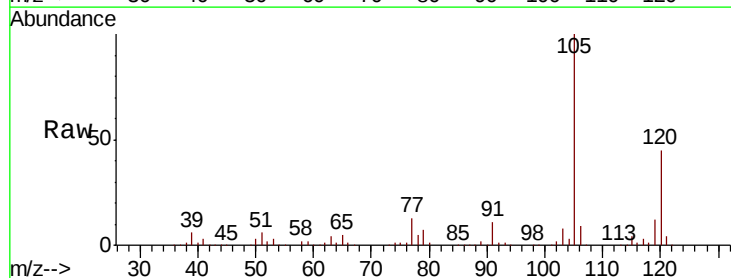


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

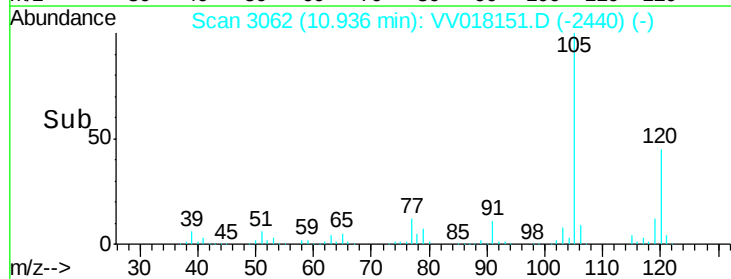
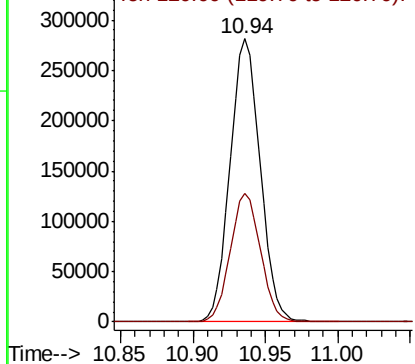


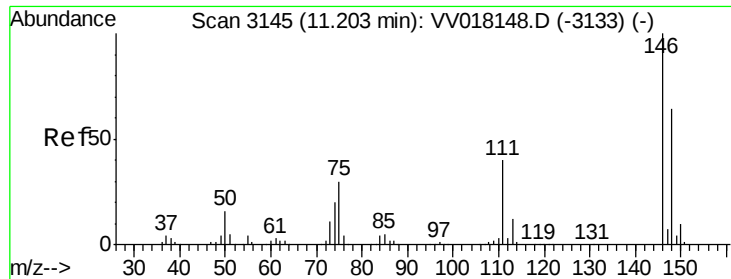
#63
 1,2,4-Trimethylbenzene
 Concen: 60.205 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. 0.00 min
 Lab File: VV018151.D
 Acq: 03 Sep 2020 12:43

Tgt Ion:105 Resp: 407392
 Ion Ratio Lower Upper
 105 100
 120 45.4 36.7 55.1



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

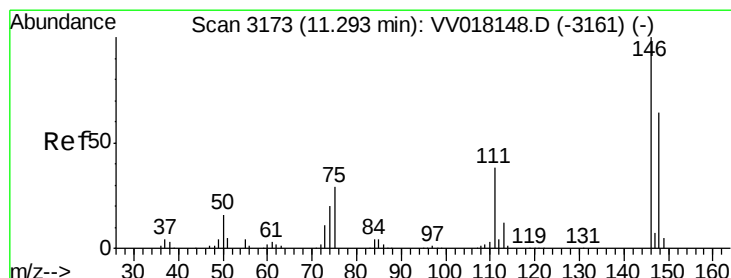
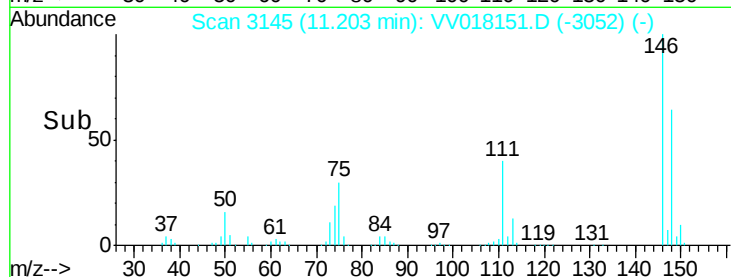
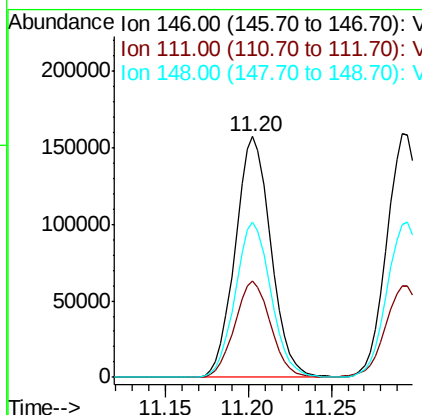
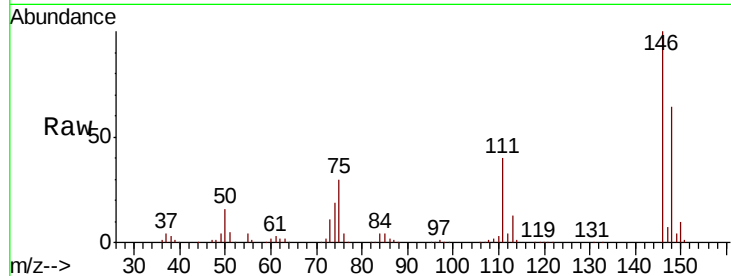




#64
 1,3-Dichlorobenzene
 Concen: 58.710 ug/L
 RT: 11.20 min Scan# 3145
 Delta R.T. 0.00 min
 Lab File: VV018151.D
 Acq: 03 Sep 2020 12:43

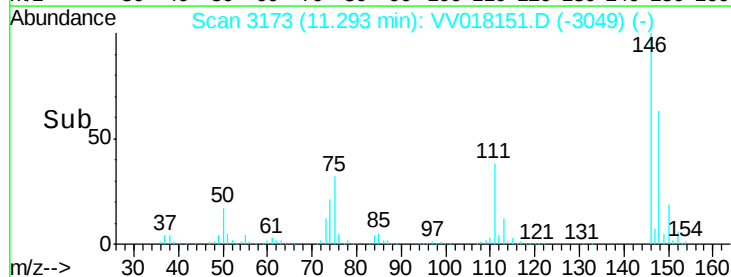
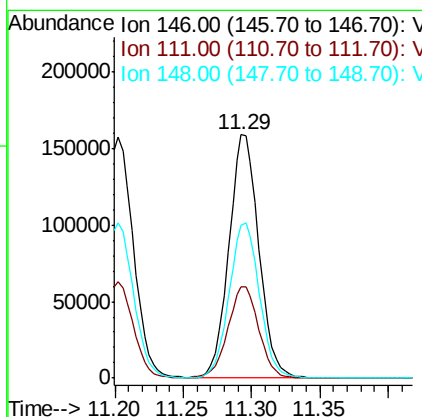
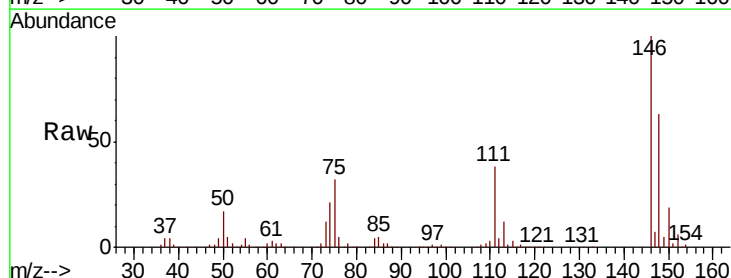
Instrument :
 MSVOA_V
 ClientSampleId :
 A5169MSD

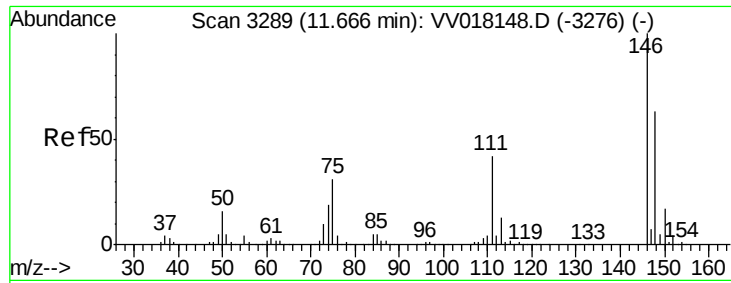
Tot Ion:146 Resp: 234929
 Ion Ratio Lower Upper
 146 100
 111 39.9 26.8 49.8
 148 64.5 44.6 82.8



#65
 1,4-Dichlorobenzene
 Concen: 59.665 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. 0.00 min
 Lab File: VV018151.D
 Acq: 03 Sep 2020 12:43

Tgt Ion:146 Resp: 241325
 Ion Ratio Lower Upper
 146 100
 111 37.5 25.8 47.8
 148 63.0 45.2 84.0

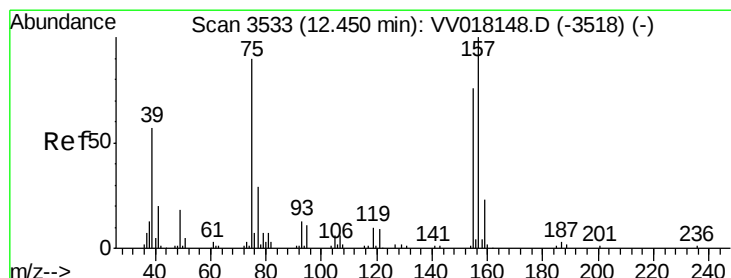
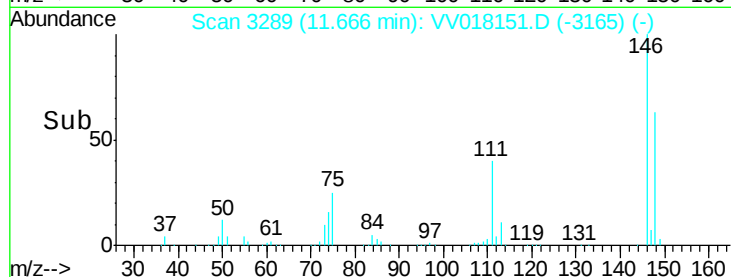
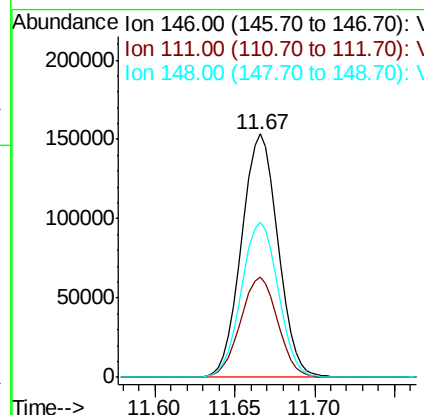
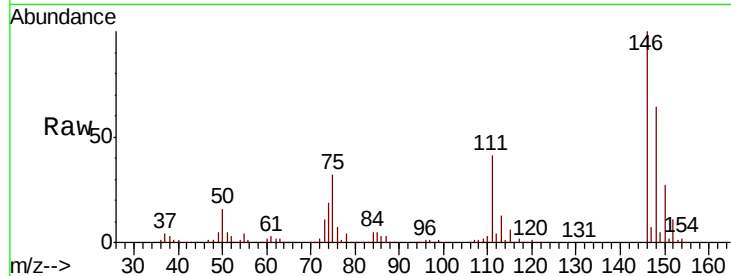




#67
 1,2-Dichlorobenzene
 Concen: 58.468 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV018151.D
 Acq: 03 Sep 2020 12:43

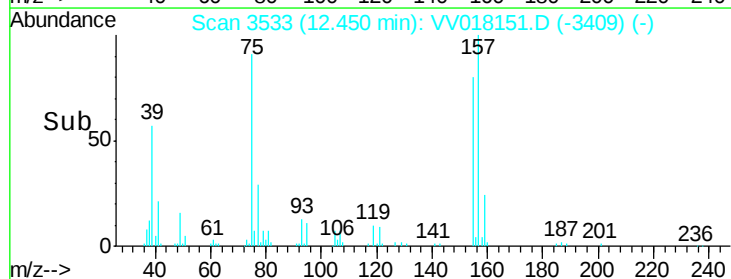
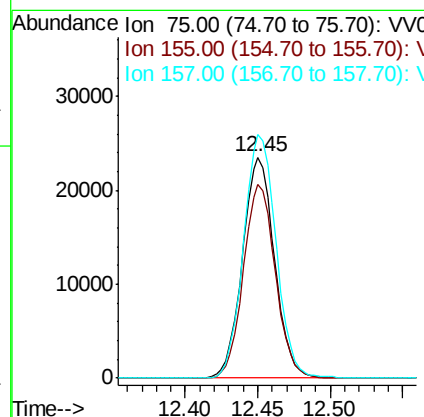
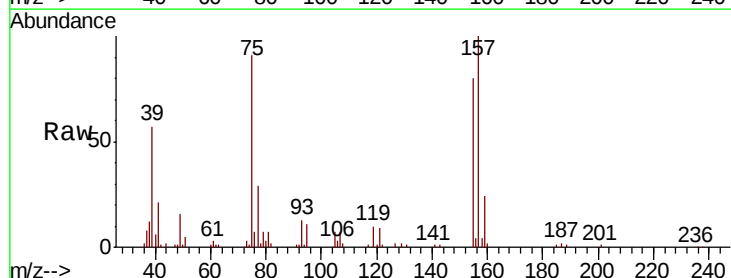
Instrument :
 MSVOA_V
 ClientSampleId :
 A5169MSD

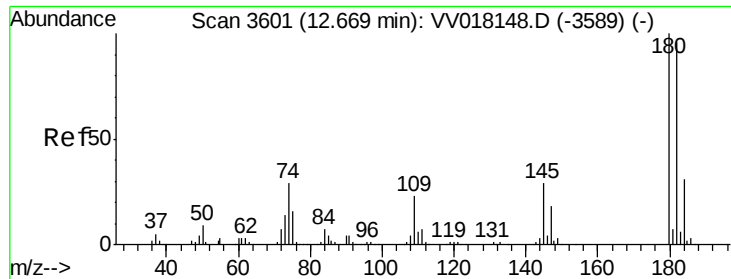
Tot Ion:146 Resp: 238711
 Ion Ratio Lower Upper
 146 100
 111 41.3 32.2 48.2
 148 63.6 53.2 79.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 55.689 ug/L
 RT: 12.45 min Scan# 3533
 Delta R.T. 0.00 min
 Lab File: VV018151.D
 Acq: 03 Sep 2020 12:43

Tgt Ion: 75 Resp: 36105
 Ion Ratio Lower Upper
 75 100
 155 88.0 81.2 121.8
 157 110.3 102.3 153.5

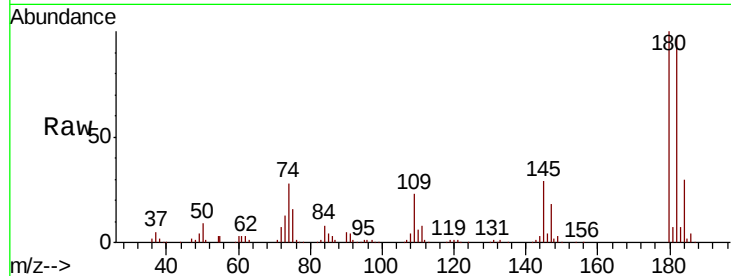




#69
 1,3,5-Trichlorobenzene
 Concen: 57.678 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV018151.D
 Acq: 03 Sep 2020 12:43

Instrument :
 MSVOA_V
 ClientSampleId :
 A5169MSD

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.5	114.7
184	30.8	24.6	36.8
145	28.6	22.5	33.7

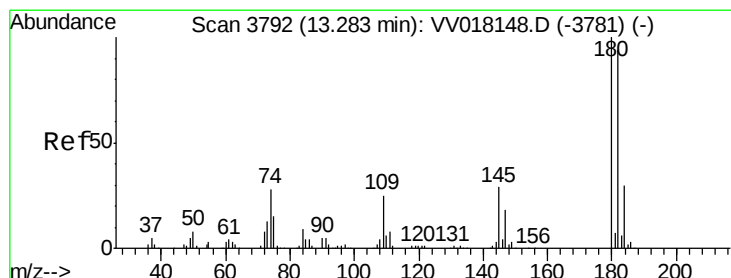
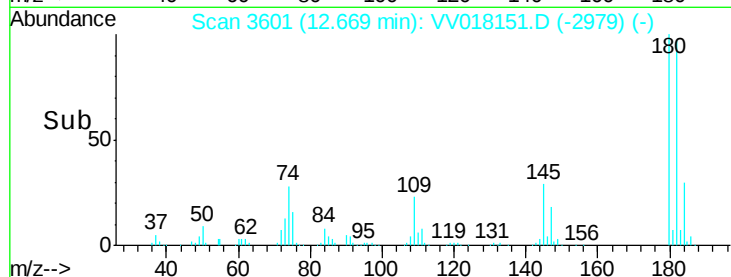
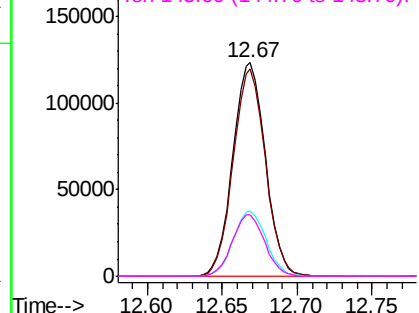


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

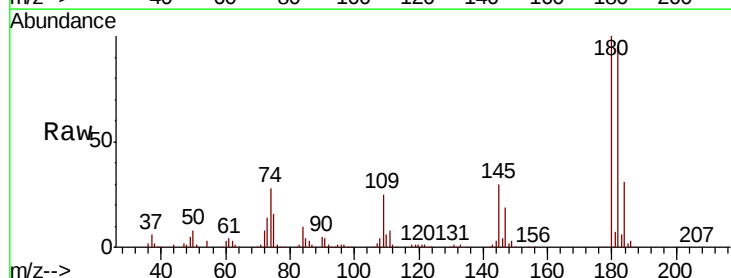
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 62.427 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV018151.D
 Acq: 03 Sep 2020 12:43

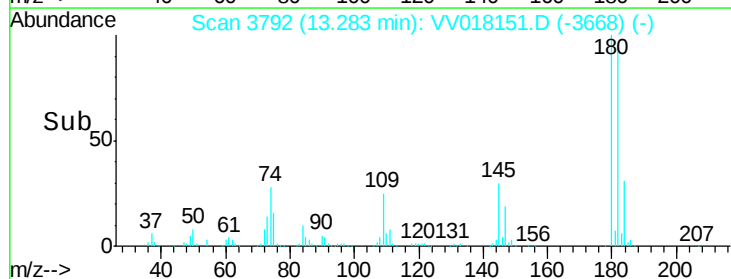
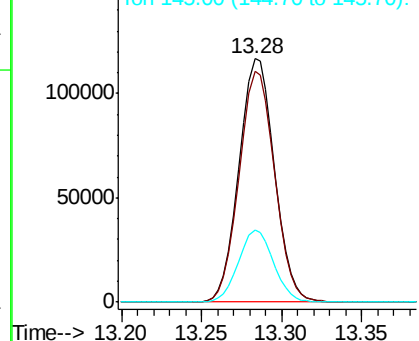
Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.5	114.7
145	29.4	23.3	34.9

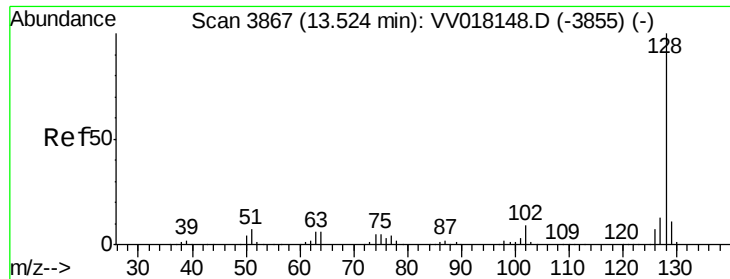


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

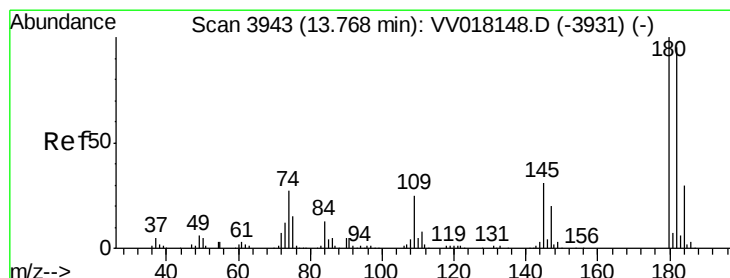
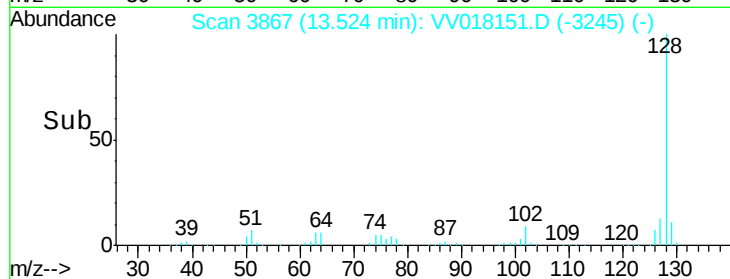
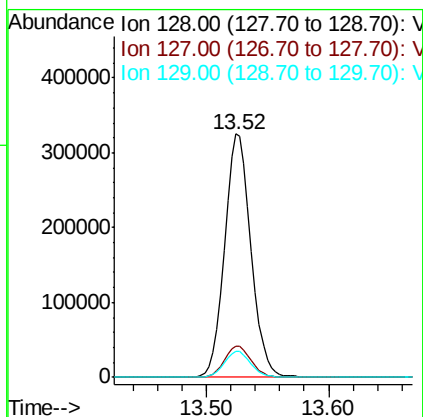
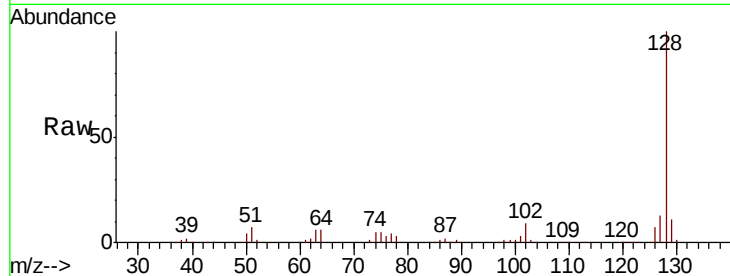




#71
Naphthalene
Concen: 68.994 ug/L
RT: 13.52 min Scan# 3867
Delta R.T. 0.00 min
Lab File: VV018151.D
Acq: 03 Sep 2020 12:43

Instrument :
MSVOA_V
ClientSampleId :
A5169MSD

Tot Ion:128 Resp: 491813
Ion Ratio Lower Upper
128 100
127 13.1 10.6 15.8
129 10.8 8.6 12.8



#72
1,2,3-Trichlorobenzene
Concen: 63.342 ug/L
RT: 13.77 min Scan# 3943
Delta R.T. 0.00 min
Lab File: VV018151.D
Acq: 03 Sep 2020 12:43

Tgt Ion:180 Resp: 179281
Ion Ratio Lower Upper
180 100
182 94.9 77.2 115.8
145 31.8 24.6 36.8

