

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081219\
 Data File : VV012203.D
 Acq On : 12 Aug 2019 12:32
 Operator : SY/MD
 Sample : VSTDIC200
 Misc : 5mL/MSVOA V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 12 14:04:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM081219WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 12 14:00:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	495552	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	483222	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	265252	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	657618	315.40	ug/L	0.00
7) Chloroethane-d5	1.57	69	560575	382.18	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	1206285	307.18	ug/L	0.00
21) 2-Butanone-d5	3.92	46	1305727	1024.90	ug/L	0.00
24) Chloroform-d	4.40	84	1497684	334.26	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	947438	358.78	ug/L	0.00
32) Benzene-d6	5.10	84	3055703	342.05	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	963076	377.08	ug/L	0.00
41) Toluene-d8	7.36	98	2827497	336.40	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	518130	385.82	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	1015906	991.00	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	1446486	409.50	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	1254371	337.36	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	822540	193.692	ug/L	100
3) Chloromethane	1.25	50	782750	247.810	ug/L	99
5) Vinyl chloride	1.32	62	785863	263.379	ug/L	100
6) Bromomethane	1.52	94	425978	247.141	ug/L	99
8) Chloroethane	1.59	64	438764	274.984	ug/L	99
9) Trichlorofluoromethane	1.77	101	1011651	210.931	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	564136	240.392	ug/L	99
12) 1,1-Dichloroethene	2.14	96	540594	249.587	ug/L	95
13) Acetone	2.18	43	781452	539.685	ug/L	99
14) Carbon disulfide	2.32	76	1746476	230.677	ug/L	99
15) Methyl Acetate	2.45	43	758527	268.505	ug/L	99
16) Methylene chloride	2.53	84	683635	216.294	ug/L	100
17) trans-1,2-Dichloroethene	2.79	96	653320	218.566	ug/L	99
18) Methyl tert-butyl Ether	2.80	73	2056789	217.198	ug/L	99
19) 1,1-Dichloroethane	3.23	63	1180419	221.811	ug/L	99
20) cis-1,2-Dichloroethene	3.96	96	743411	219.962	ug/L	99
22) 2-Butanone	4.01	43	1159636	552.346	ug/L	99
23) Bromochloromethane	4.30	128	375101	205.245	ug/L	97
25) Chloroform	4.42	83	1217990	207.005	ug/L	100
27) 1,2-Dichloroethane	5.18	62	931779	203.695	ug/L	100
29) Cyclohexane	4.73	56	1126200	239.147	ug/L	99
30) 1,1,1-Trichloroethane	4.66	97	1070974	193.308	ug/L	99
31) Carbon tetrachloride	4.87	117	974416	189.490	ug/L	99
33) Benzene	5.15	78	2699103	217.116	ug/L	100
34) Trichloroethene	5.96	95	697506	208.532	ug/L	98
35) Methylcyclohexane	6.18	83	1192988	223.126	ug/L	99
37) 1,2-Dichloropropane	6.22	63	690569	228.907	ug/L	99
38) Bromodichloromethane	6.55	83	939775	206.095	ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	1197970	235.352	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	2097357	535.108	ug/L	100

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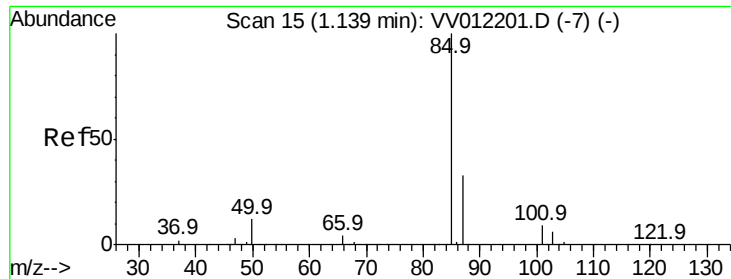
Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 12 14:04:56 2019
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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)

42) Toluene	7.43	91	2930371	214.209	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	1071262	231.933	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	684640	210.144	ug/L	99
46) Tetrachloroethene	8.02	164	597152	189.547	ug/L	99
48) 2-Hexanone	8.18	43	1675176	555.191	ug/L	98
49) Dibromochloromethane	8.29	129	808534	199.827	ug/L	97
50) 1,2-Dibromoethane	8.40	107	749302	210.969	ug/L	99
51) Chlorobenzene	8.92	112	1922638	207.615	ug/L	99
52) Ethylbenzene	9.05	91	3309132	217.240	ug/L	98
53) m,p-Xylene	9.18	106	1300740	216.353	ug/L	99
54) o-xylene	9.59	106	1269940	215.043	ug/L	99
55) Styrene	9.60	104	2203994	221.790	ug/L	98
56) Isopropylbenzene	9.97	105	3320059	213.471	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	1156567	228.419	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	888096	221.244	ug/L	100
61) Bromoform	9.77	173	631048	192.290	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	1634379	203.116	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	1640068	203.074	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	1611533	199.057	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	275482	221.442	ug/L	95
67) 1,3,5-Trichlorobenzene	12.69	180	1290877	203.746	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	1172453	223.992	ug/L	100
69) Naphthalene	13.55	128	3676623	251.763	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	1167622	212.566	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 193.692 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

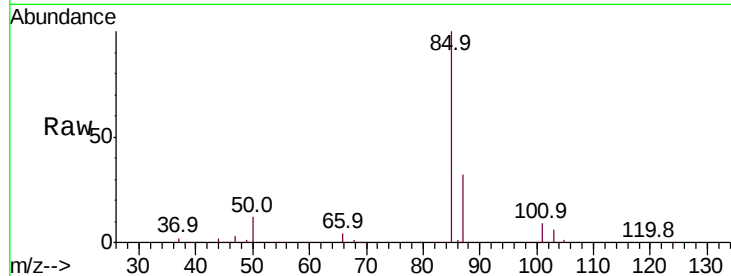
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 822540

Ion Ratio Lower Upper

85 100

87 32.3 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

800000

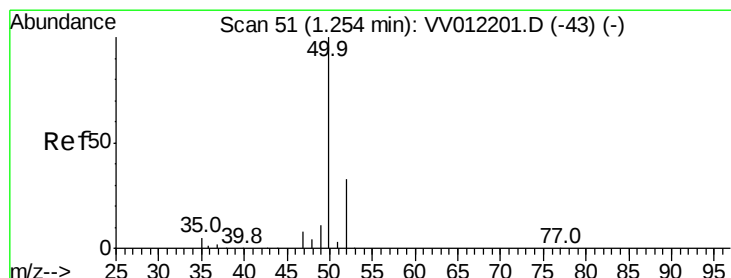
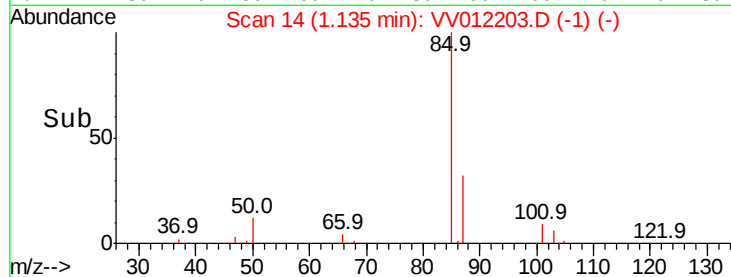
600000

400000

200000

0

Time-->



#3

Chloromethane

Concen: 247.810 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV012203.D

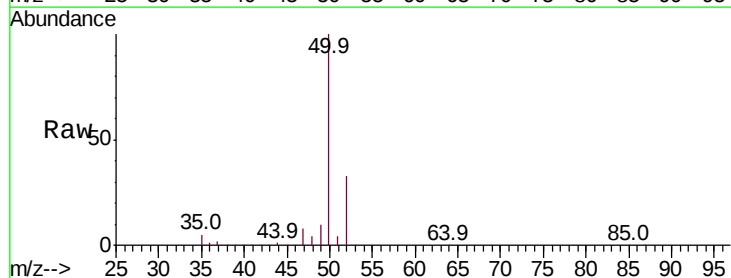
Acq: 12 Aug 2019 12:32

Tgt Ion: 50 Resp: 782750

Ion Ratio Lower Upper

50 100

52 32.8 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

1.25

800000

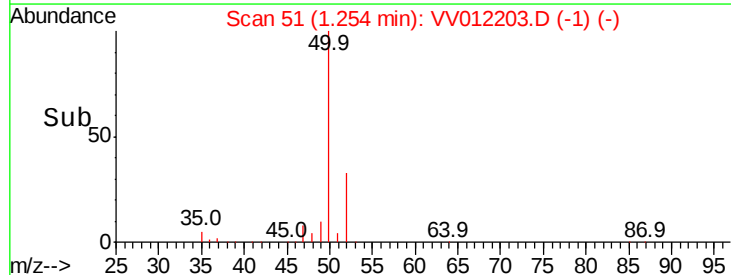
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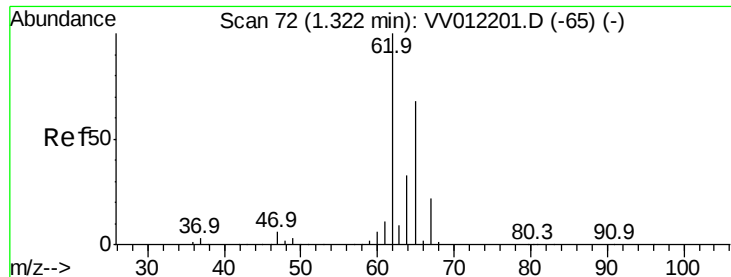
400000

200000

0

Time-->





#5

Vinyl chloride

Concen: 263.379 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

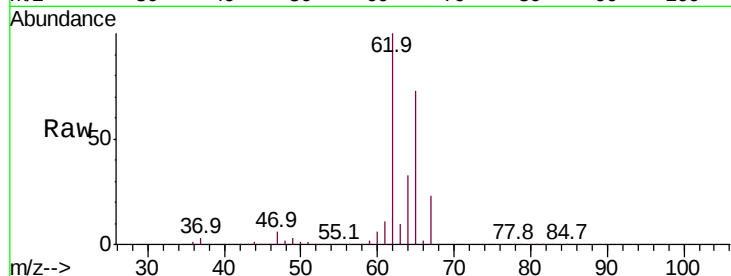
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 785863

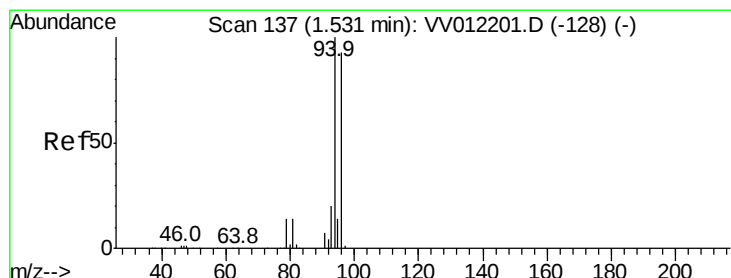
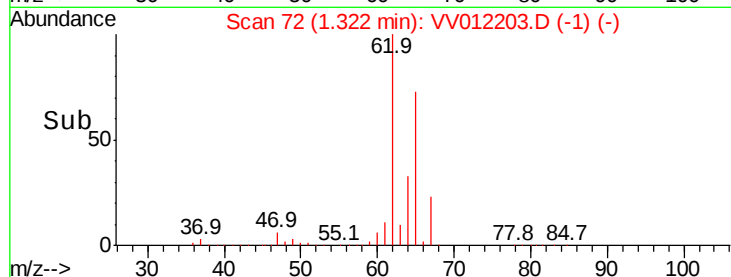
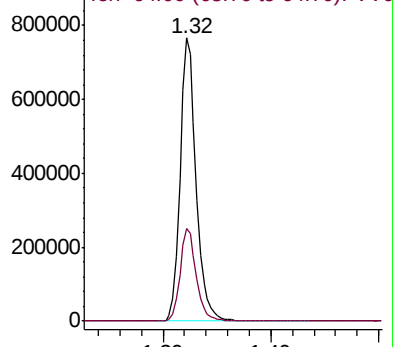
Ion Ratio Lower Upper

62 100

64 32.8 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV012203.D (-1) (-)



#6

Bromomethane

Concen: 247.141 ug/L

RT: 1.52 min Scan# 133

Delta R.T. -0.01 min

Lab File: VV012203.D

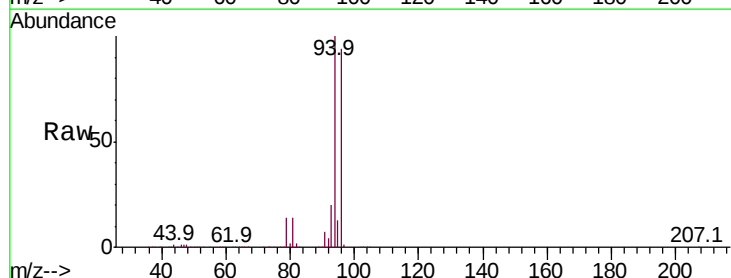
Acq: 12 Aug 2019 12:32

Tgt Ion: 94 Resp: 425978

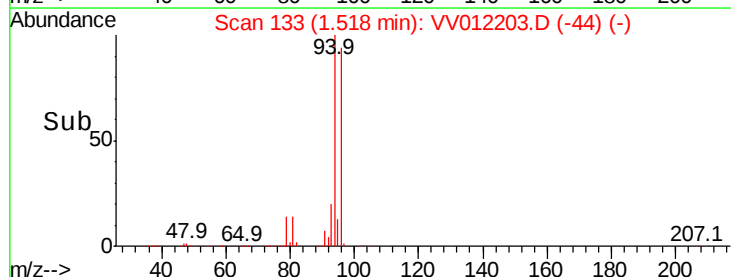
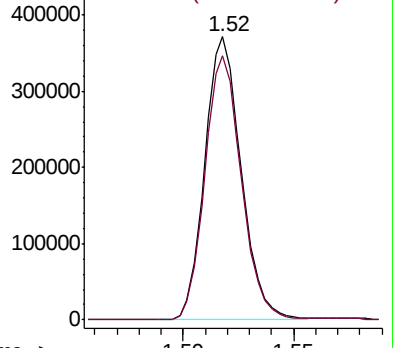
Ion Ratio Lower Upper

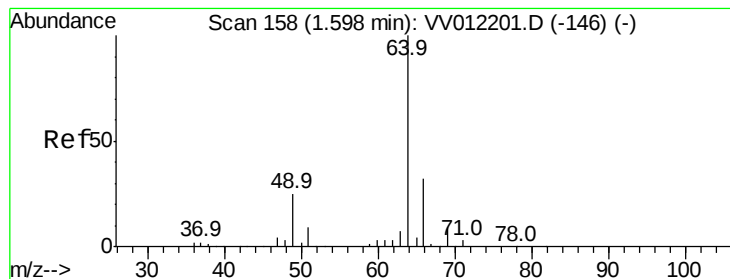
94 100

96 93.5 65.0 120.8



Abundance Ion 94.00 (93.70 to 94.70): VV012203.D (-44) (-)





#8

Chloroethane

Concen: 274.984 ug/L

RT: 1.59 min Scan# 155

Delta R.T. -0.01 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

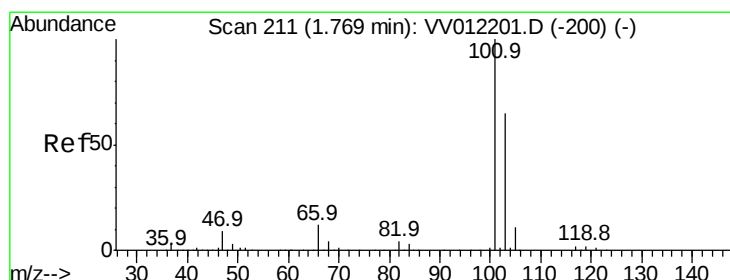
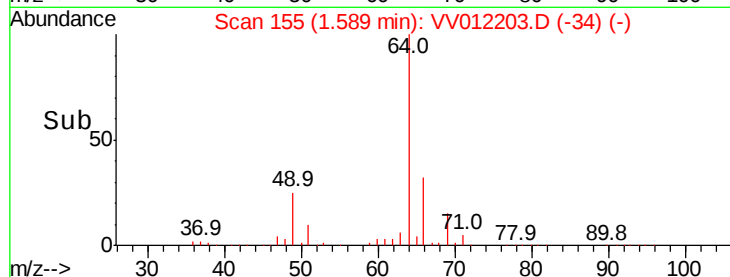
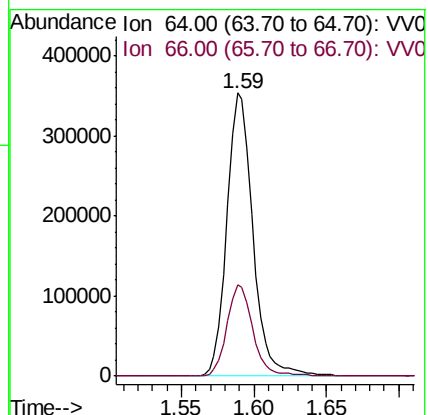
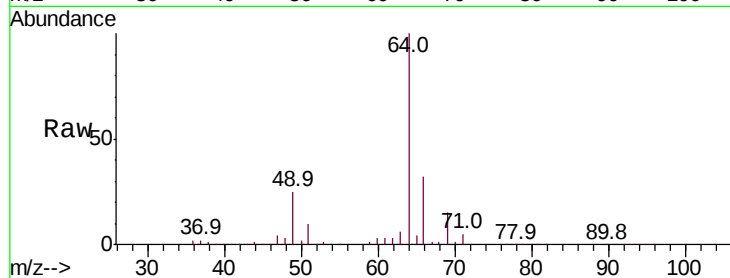
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 438764

Ion Ratio Lower Upper

64 100

66 32.1 22.3 41.3



#9

Trichlorofluoromethane

Concen: 210.931 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV012203.D

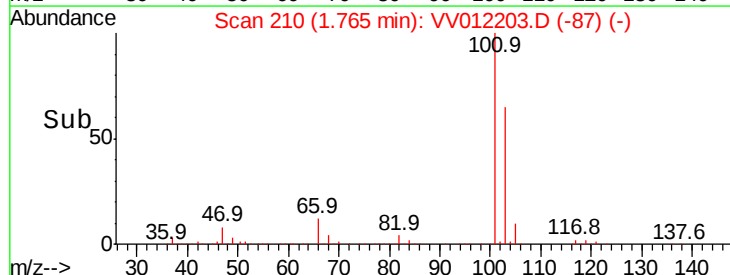
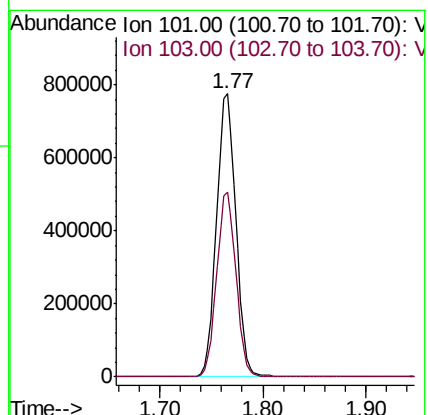
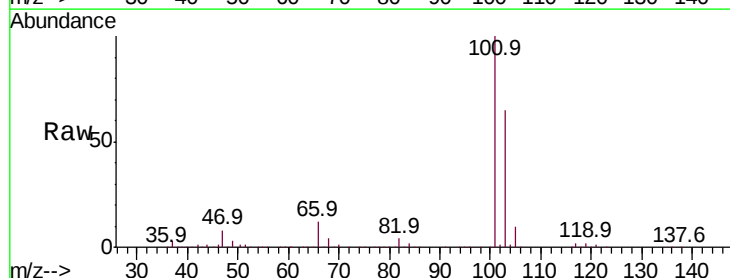
Acq: 12 Aug 2019 12:32

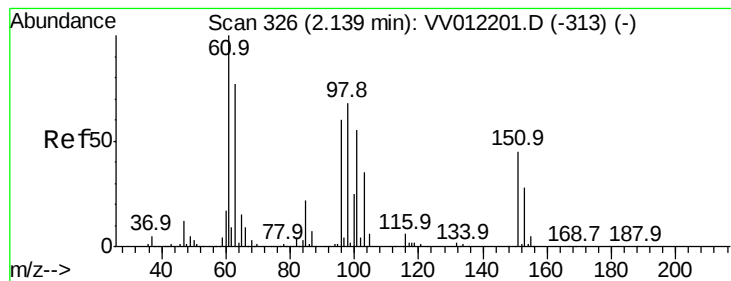
Tgt Ion:101 Resp: 1011651

Ion Ratio Lower Upper

101 100

103 64.8 51.8 77.6





#10

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

Concen: 240.392 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

Instrument :

MSVOA_V

ClientSampleId :

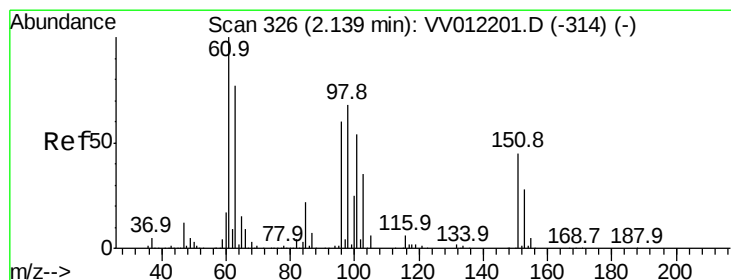
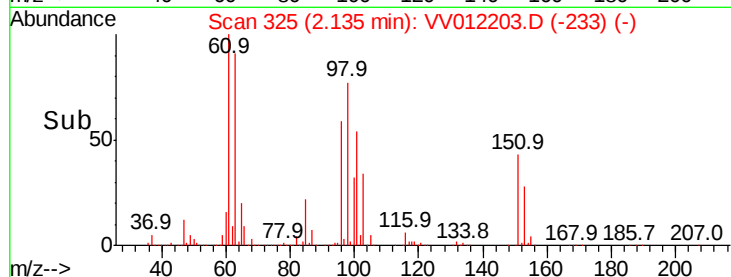
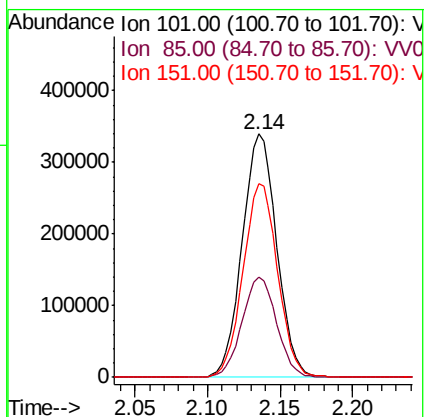
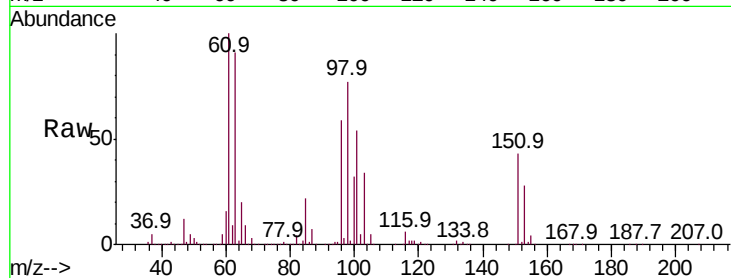
Tot Ion:101 Resp: 564136

Ion Ratio Lower Upper

101 100

85 41.2 32.8 49.2

151 79.8 65.0 97.6



#12

1,1-Dichloroethene

Concen: 249.587 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

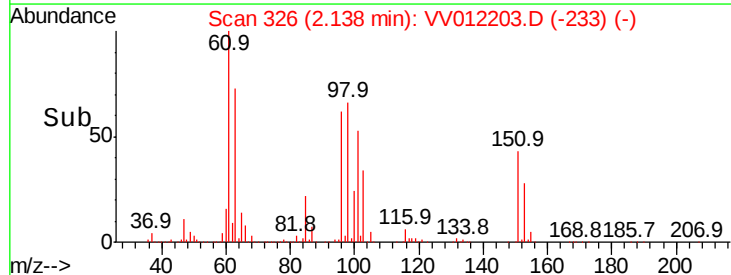
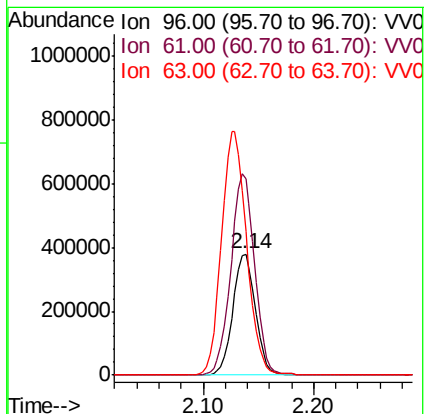
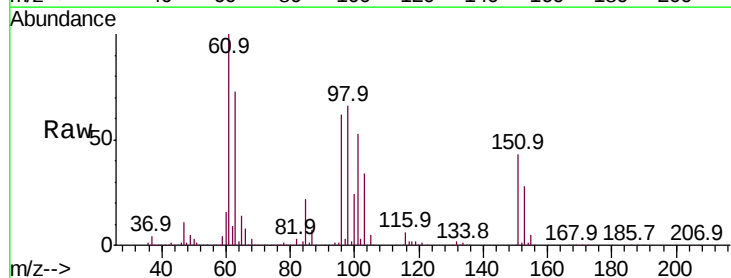
Tgt Ion: 96 Resp: 540594

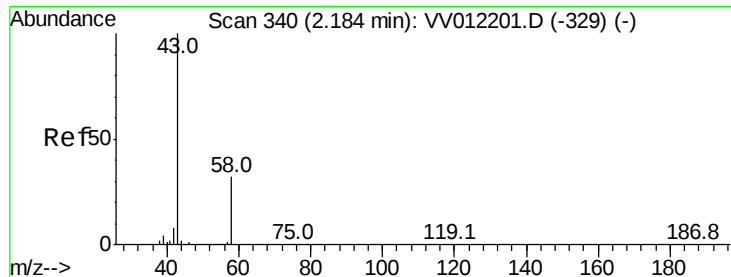
Ion Ratio Lower Upper

96 100

61 162.5 115.9 215.3

63 118.5 90.0 167.2





#13

Acetone

Concen: 539.685 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

Instrument :

MSVOA_V

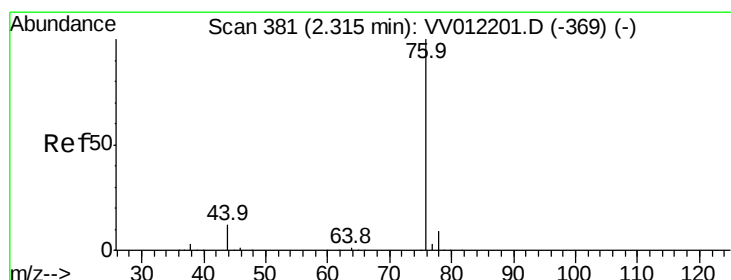
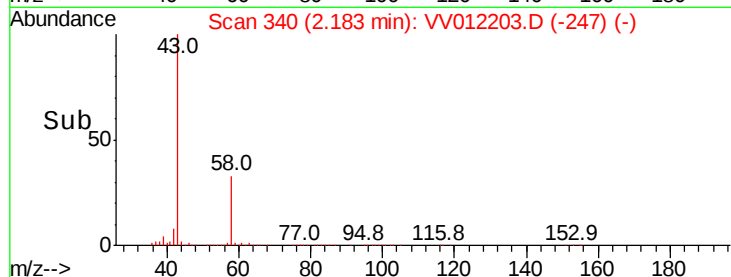
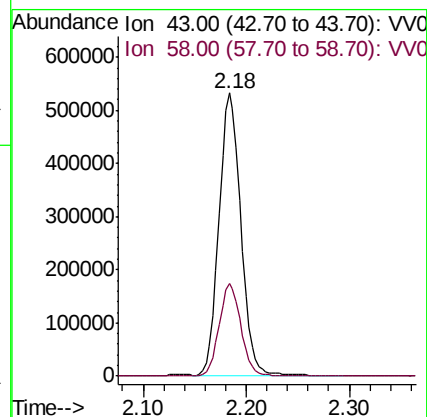
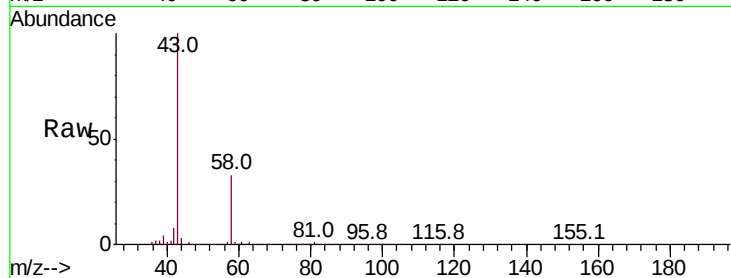
ClientSampleId :

Tot Ion: 43 Resp: 781452

Ion Ratio Lower Upper

43 100

58 32.2 0.0 63.2



#14

Carbon disulfide

Concen: 230.677 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV012203.D

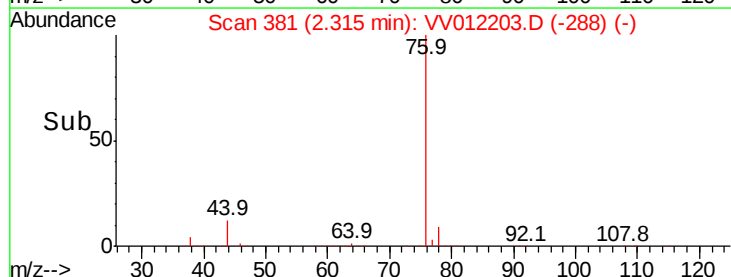
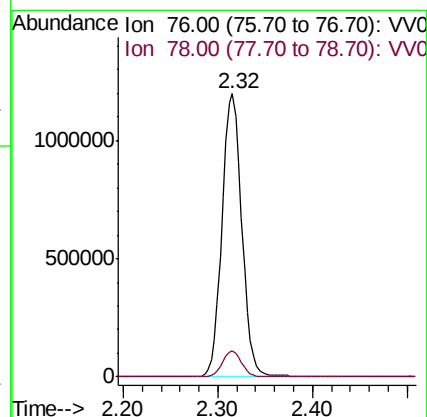
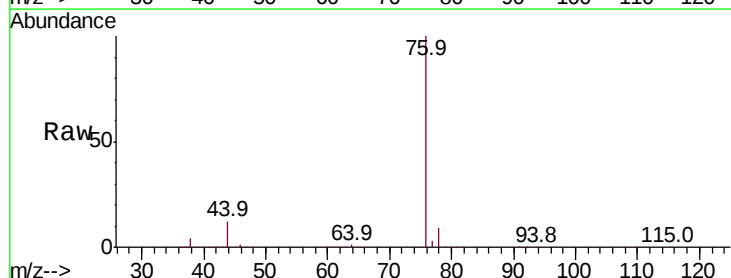
Acq: 12 Aug 2019 12:32

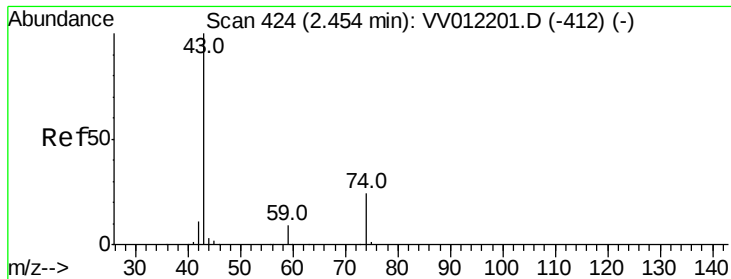
Tgt Ion: 76 Resp: 1746476

Ion Ratio Lower Upper

76 100

78 9.2 7.1 10.7





#15

Methvl Acetate

Concen: 268.505 ug/L

RT: 2.45 min Scan# 424

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

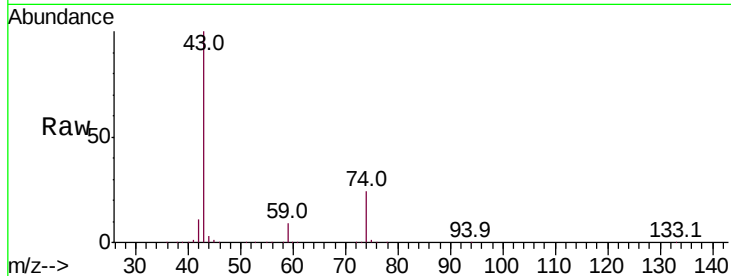
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 758527

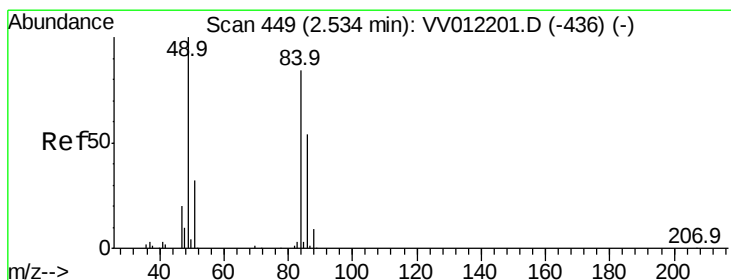
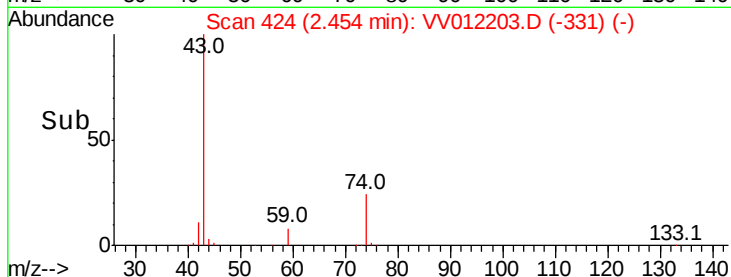
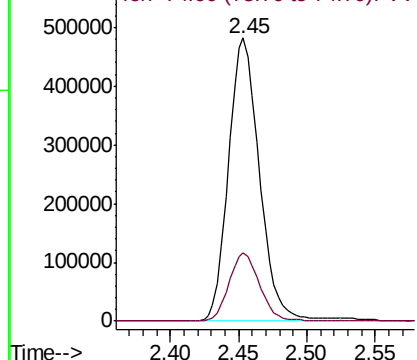
Ion Ratio Lower Upper

43 100

74 23.9 19.4 29.0



Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 216.294 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

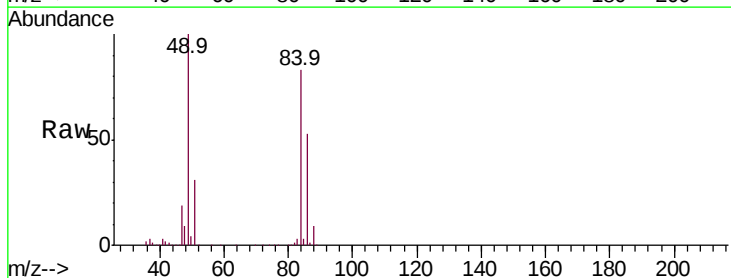
Tgt Ion: 84 Resp: 683635

Ion Ratio Lower Upper

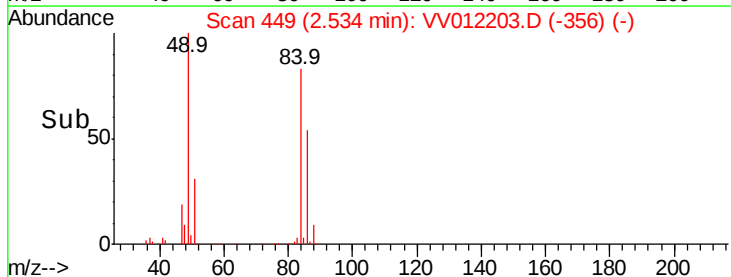
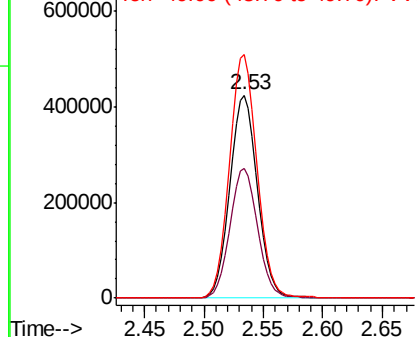
84 100

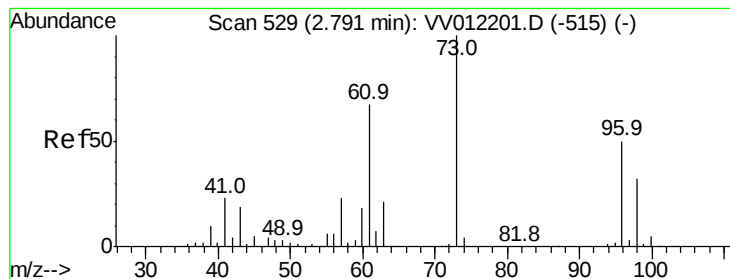
86 64.2 44.9 83.5

49 119.9 83.7 155.5



Abundance Ion 84.00 (83.70 to 84.70): VV0
Ion 86.00 (85.70 to 86.70): VV0
Ion 49.00 (48.70 to 49.70): VV0





#17

trans-1,2-Dichloroethene

Concen: 218.566 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

Instrument :
MSVOA_V
ClientSampleId :

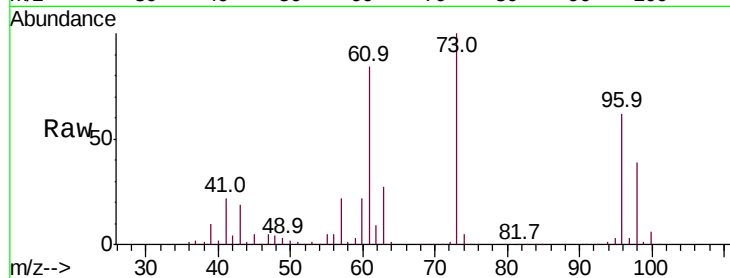
Tot Ion: 96 Resp: 653320

Ion Ratio Lower Upper

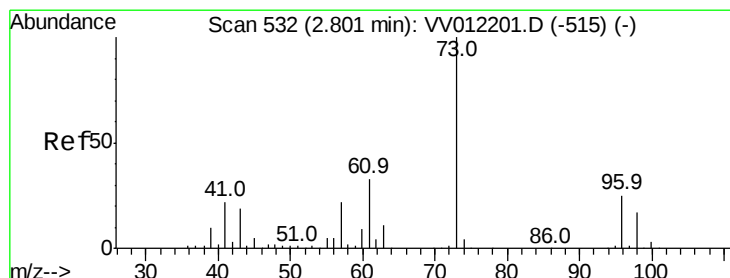
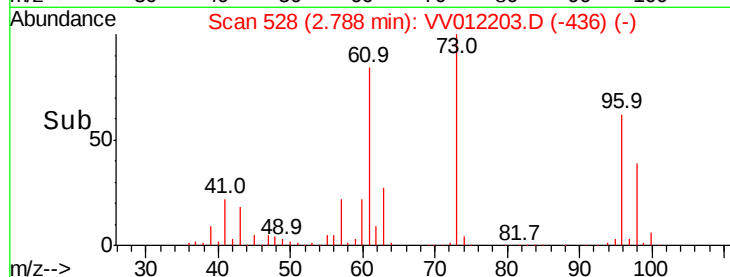
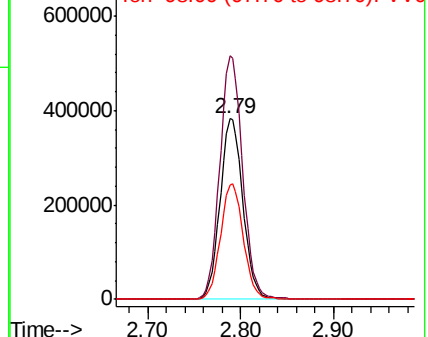
96 100

61 134.9 94.8 176.2

98 63.4 44.9 83.5



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: 217.198 ug/L

RT: 2.80 min Scan# 532

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

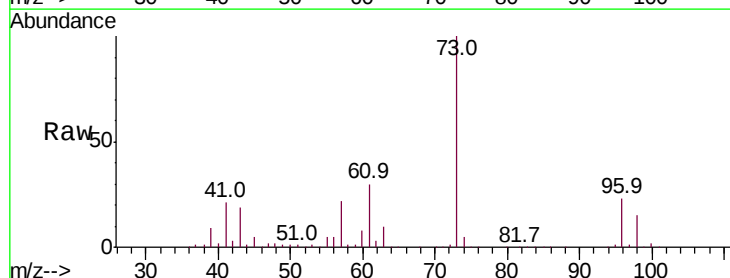
Tgt Ion: 73 Resp: 2056789

Ion Ratio Lower Upper

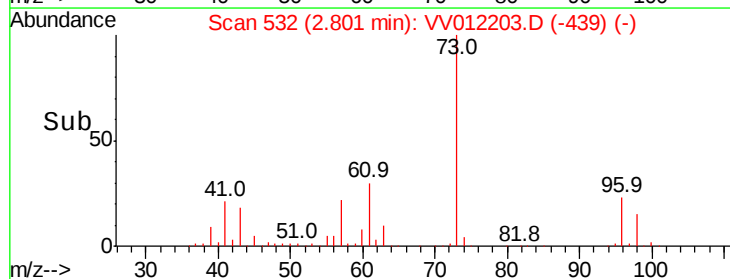
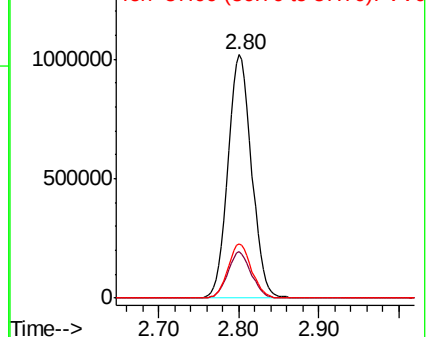
73 100

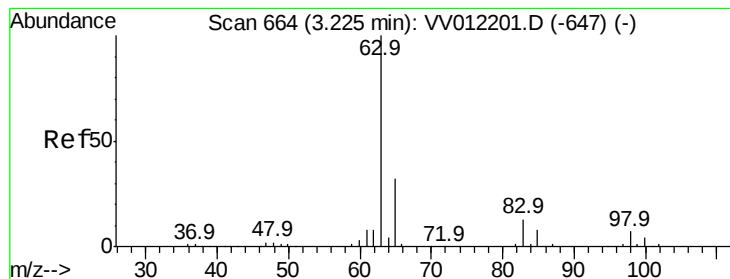
43 18.6 15.1 22.7

57 22.1 18.0 27.0



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: 221.811 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

Instrument :
MSVOA_V
ClientSampleId :

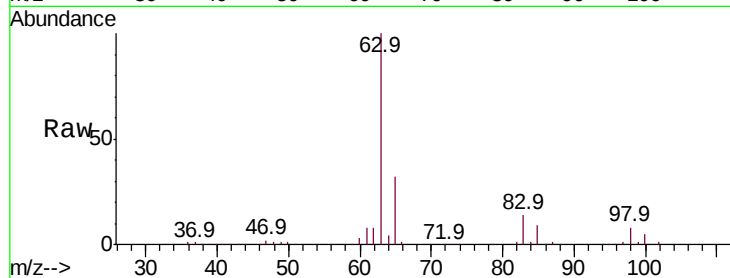
Tot Ion: 63 Resp: 1180419

Ion Ratio Lower Upper

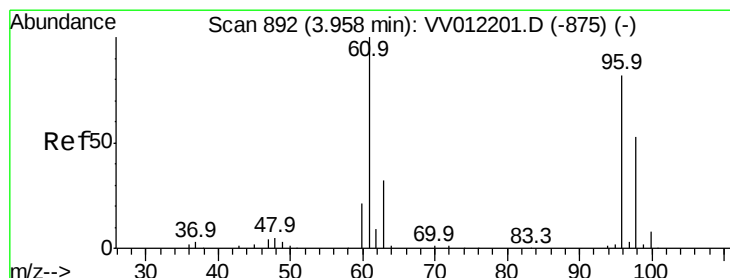
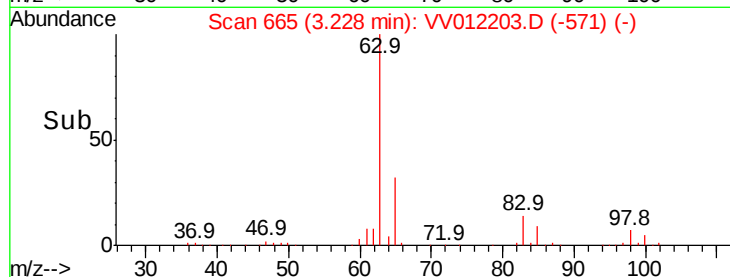
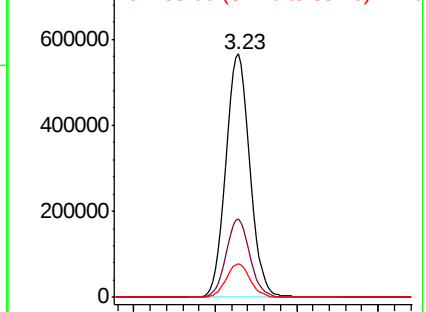
63 100

65 32.0 22.0 41.0

83 13.7 9.2 17.0



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: 219.962 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

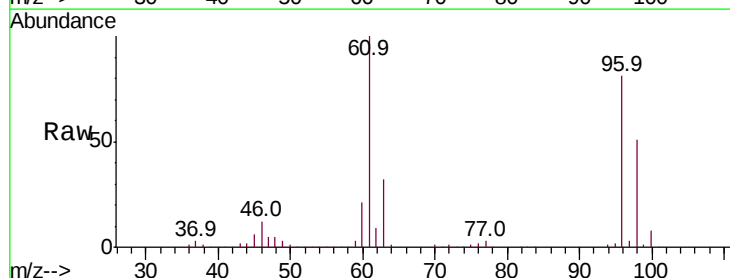
Tgt Ion: 96 Resp: 743411

Ion Ratio Lower Upper

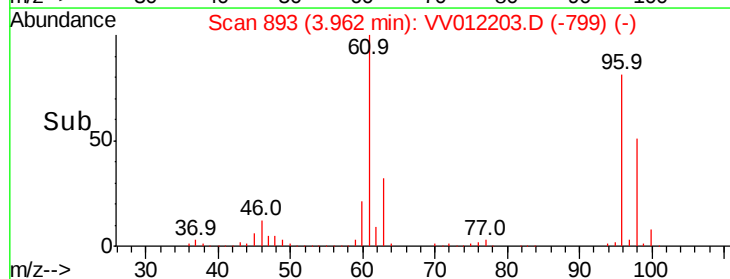
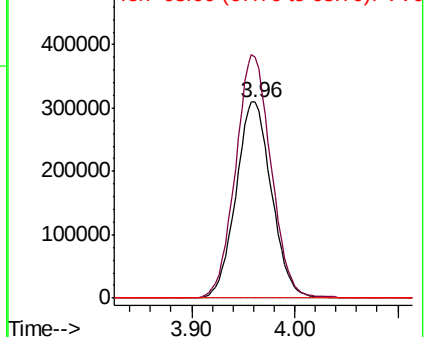
96 100

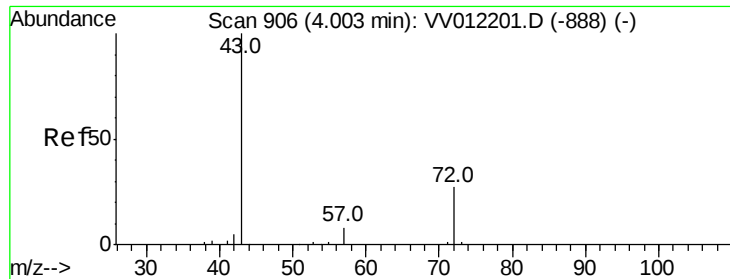
61 123.2 85.8 159.3

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: 552.346 ug/L

RT: 4.01 min Scan# 907

Delta R.T. 0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

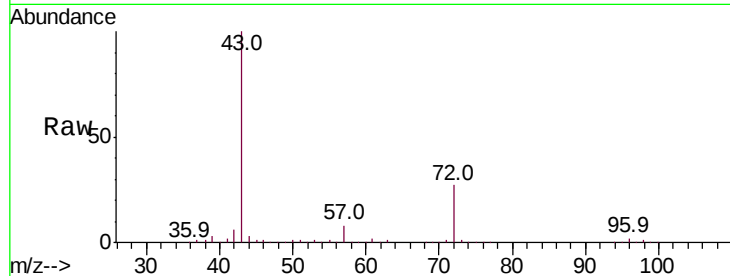
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 1159636

Ion Ratio Lower Upper

43 100

72 27.5 13.5 40.4



Abundance Ion 43.00 (42.70 to 43.70): VV012203.D (-907) (-)

Ion 72.00 (71.70 to 72.70): VV012203.D (-907) (-)

4.01

500000

400000

300000

200000

100000

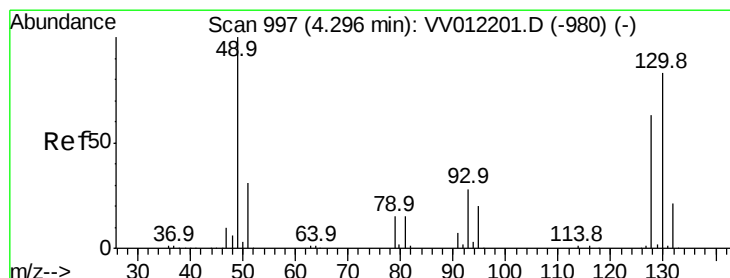
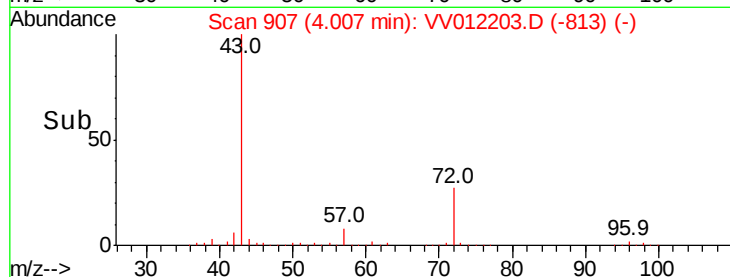
0

Time-->

3.90

4.00

4.10



#23

Bromochloromethane

Concen: 205.245 ug/L

RT: 4.30 min Scan# 997

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

Tgt Ion:128 Resp: 375101

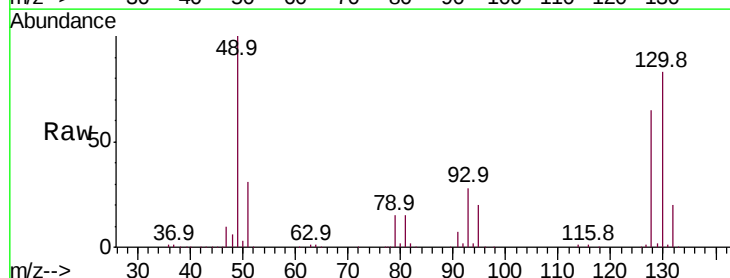
Ion Ratio Lower Upper

128 100

49 153.4 111.0 206.2

130 127.7 91.3 169.6

51 48.1 39.8 59.6



Abundance Ion 128.00 (127.70 to 128.70): VV012203.D (-904) (-)

Ion 49.00 (48.70 to 49.70): VV012203.D (-904) (-)

Ion 130.00 (129.70 to 130.70): VV012203.D (-904) (-)

Ion 51.00 (50.70 to 51.70): VV012203.D (-904) (-)

300000

200000

100000

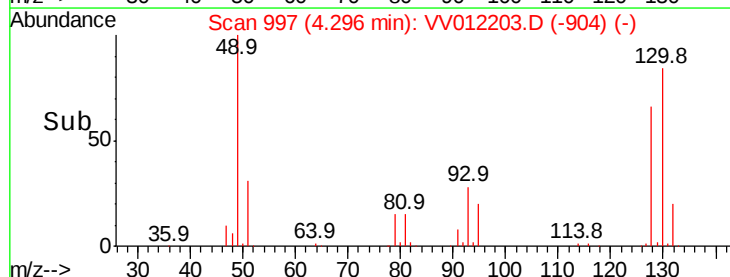
0

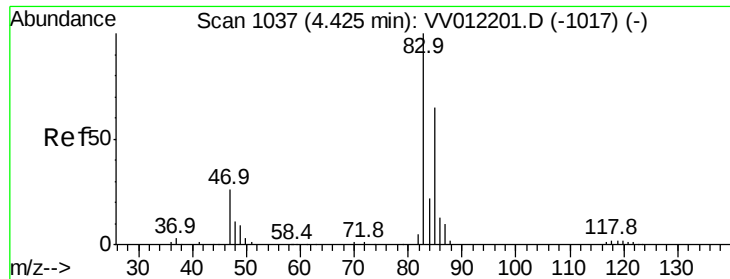
Time-->

4.20

4.30

4.40

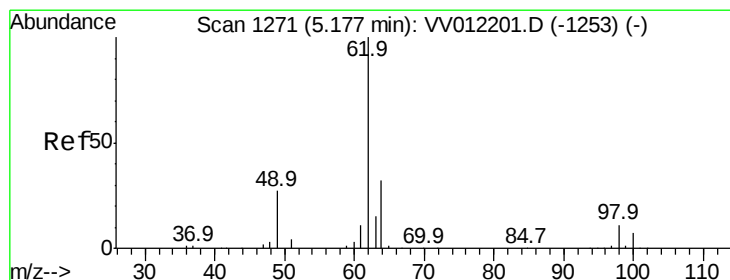
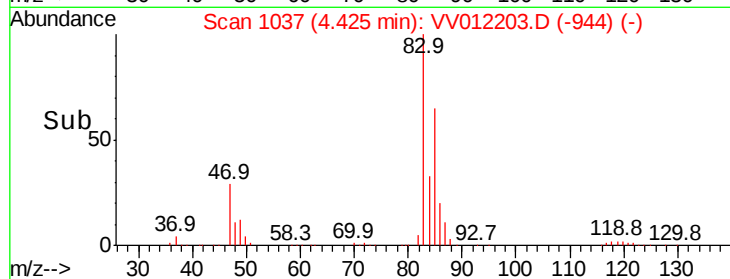
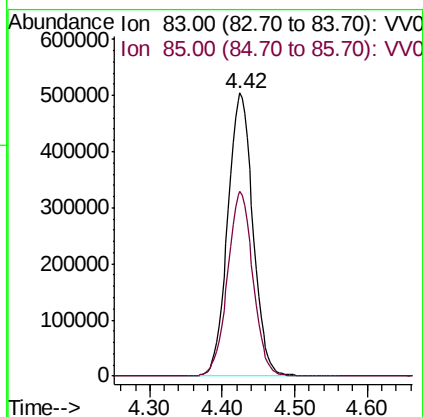
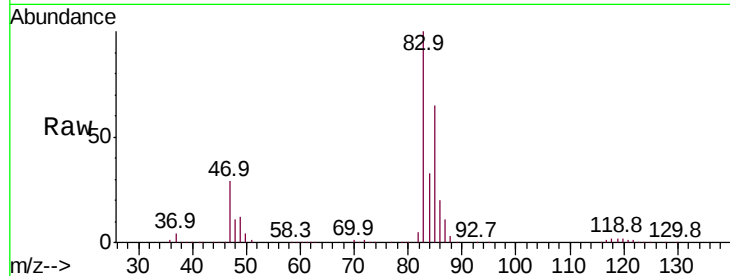




#25
Chloroform
Concen: 207.005 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV012203.D
Acq: 12 Aug 2019 12:32

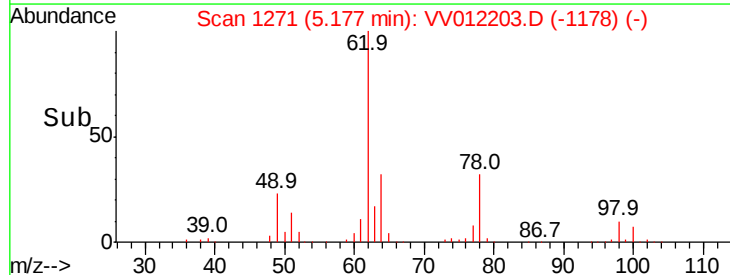
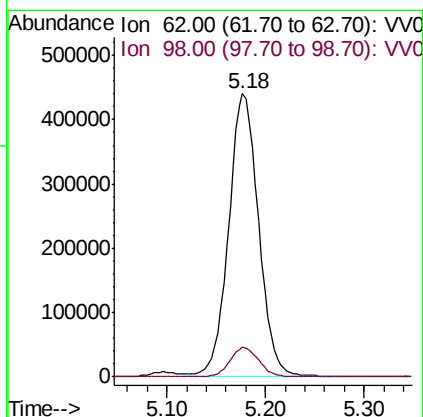
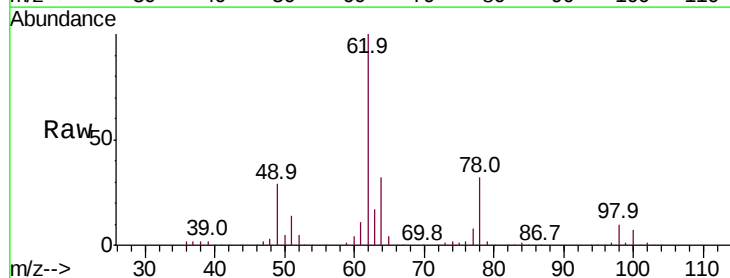
Instrument :
MSVOA_V
ClientSampled :

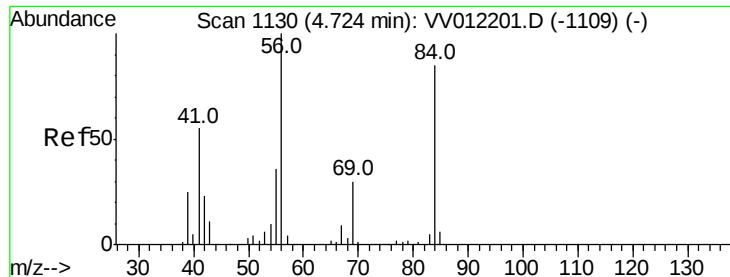
Tot Ion: 83 Resp: 1217990
Ion Ratio Lower Upper
83 100
85 65.1 45.4 84.2



#27
1,2-Dichloroethane
Concen: 203.695 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV012203.D
Acq: 12 Aug 2019 12:32

Tgt Ion: 62 Resp: 931779
Ion Ratio Lower Upper
62 100
98 10.4 8.4 12.6

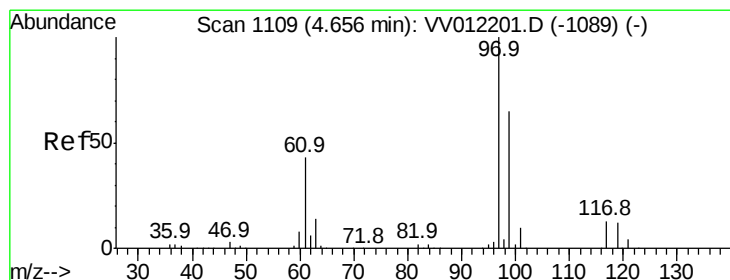
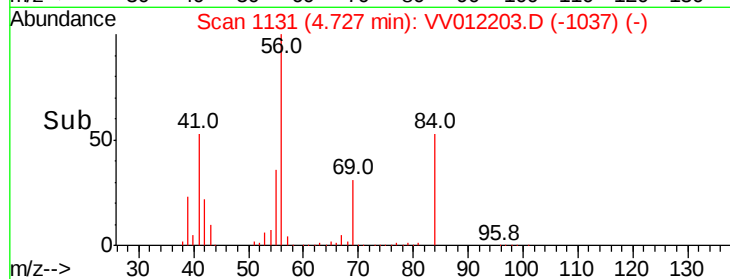
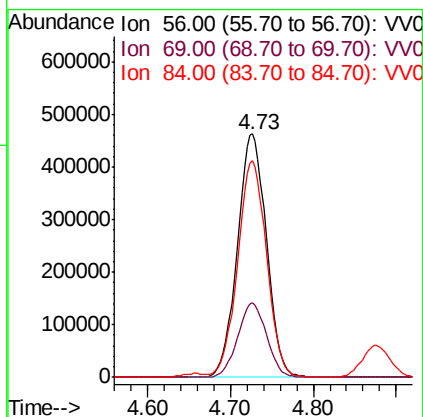
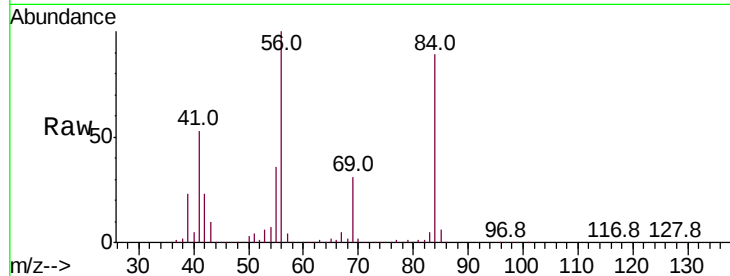




#29
Cvclohexane
Concen: 239.147 ug/L
RT: 4.73 min Scan# 1131
Delta R.T. 0.00 min
Lab File: VV012203.D
Acq: 12 Aug 2019 12:32

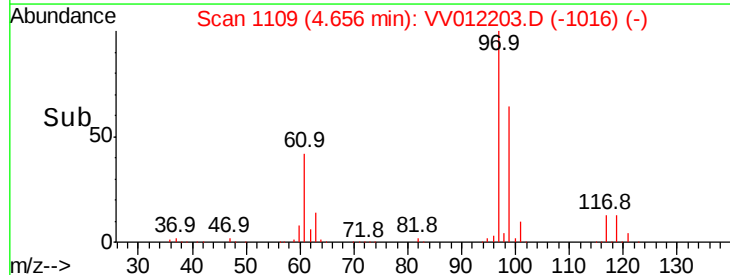
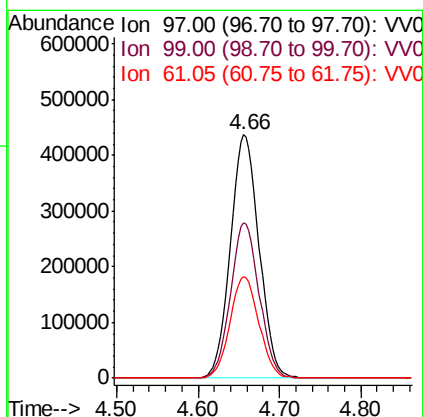
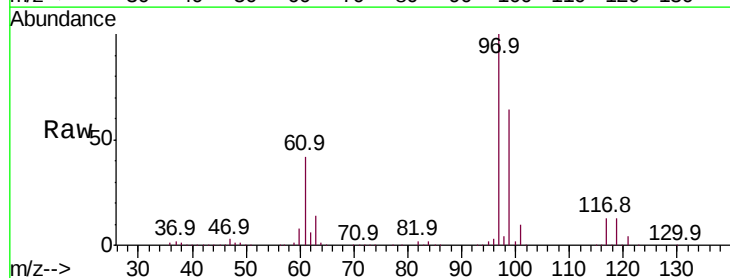
Instrument :
MSVOA_V
ClientSampleId :

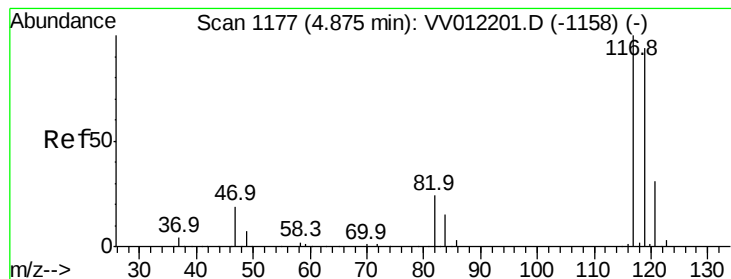
Tot Ion: 56 Resp: 1126200
Ion Ratio Lower Upper
56 100
69 30.5 24.1 36.1
84 88.6 70.3 105.5



#30
1,1,1-Trichloroethane
Concen: 193.308 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. -0.00 min
Lab File: VV012203.D
Acq: 12 Aug 2019 12:32

Tgt Ion: 97 Resp: 1070974
Ion Ratio Lower Upper
97 100
99 63.8 51.4 77.2
61 42.1 34.4 51.6



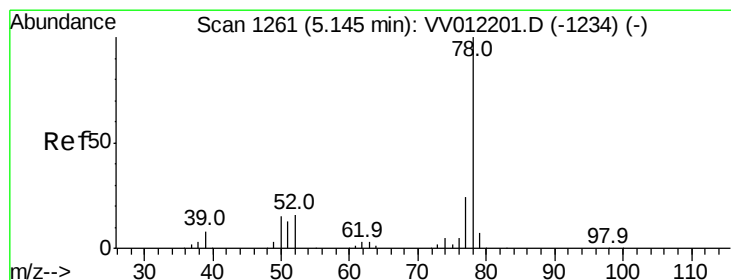
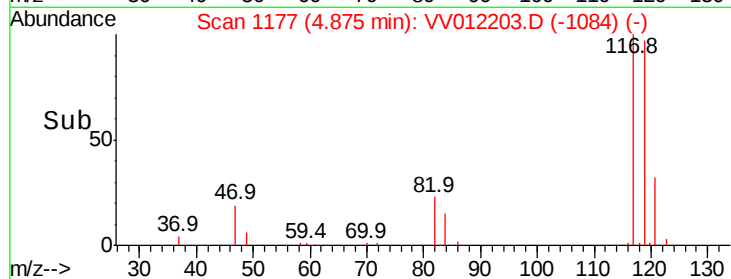
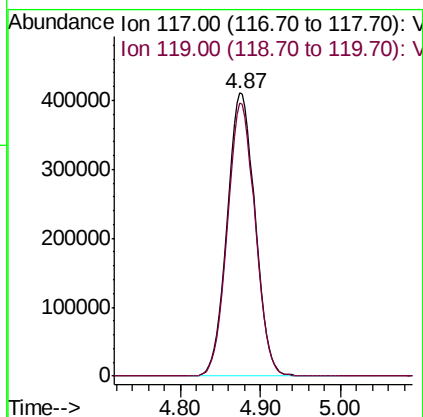
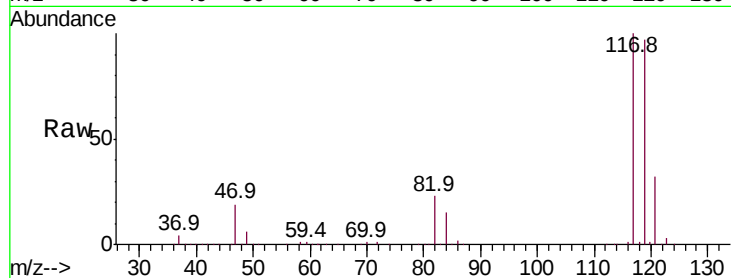


#31

Carbon tetrachloride
 Concen: 189.490 ug/L
 RT: 4.87 min Scan# 1177
 Delta R.T. -0.00 min
 Lab File: VV012203.D
 Acq: 12 Aug 2019 12:32

Instrument :
 MSVOA_V
 ClientSampleId :

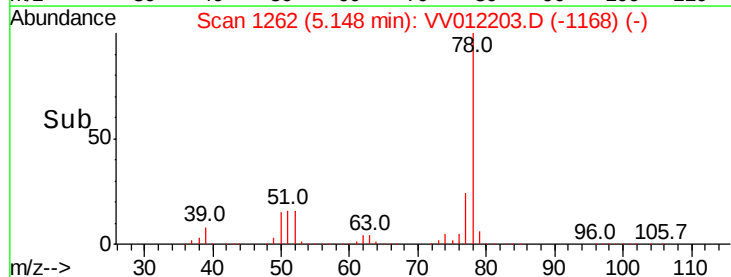
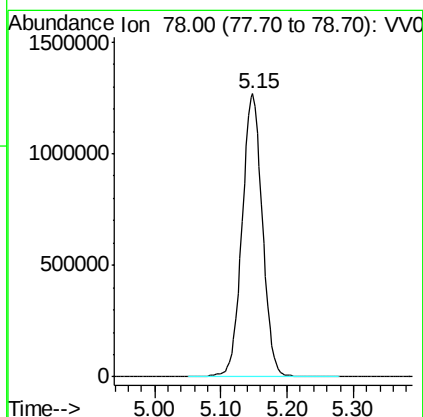
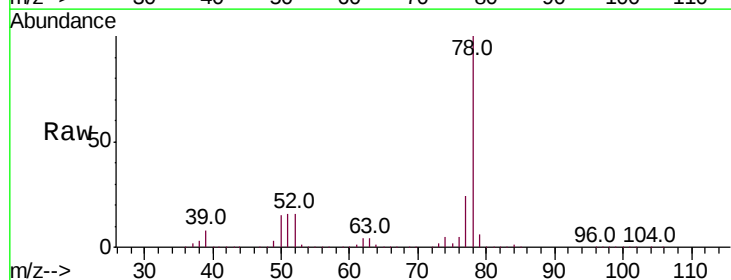
Tot Ion:117 Resp: 974416
 Ion Ratio Lower Upper
 117 100
 119 95.6 77.1 115.7

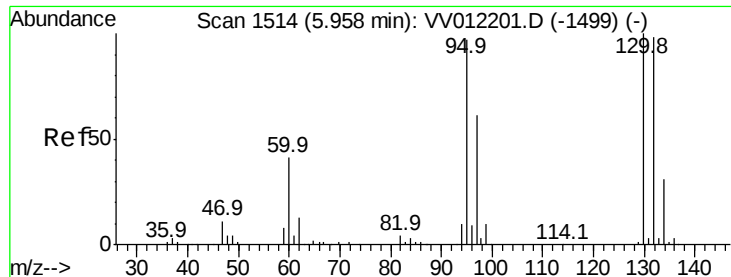


#33

Benzene
 Concen: 217.116 ug/L
 RT: 5.15 min Scan# 1262
 Delta R.T. 0.00 min
 Lab File: VV012203.D
 Acq: 12 Aug 2019 12:32

Tgt Ion: 78 Resp: 2699103

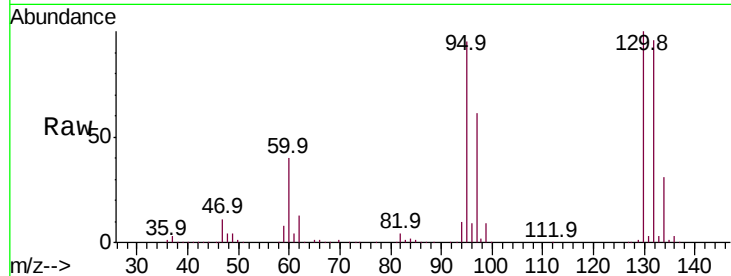




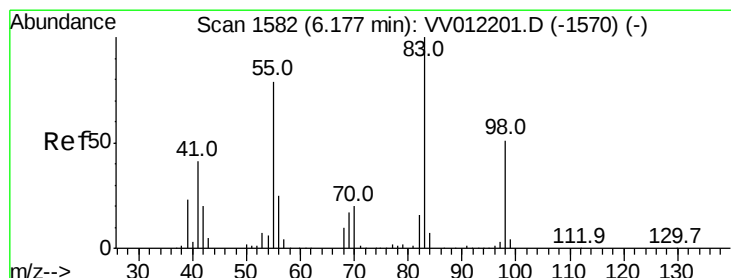
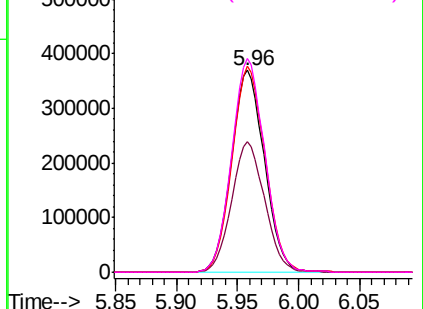
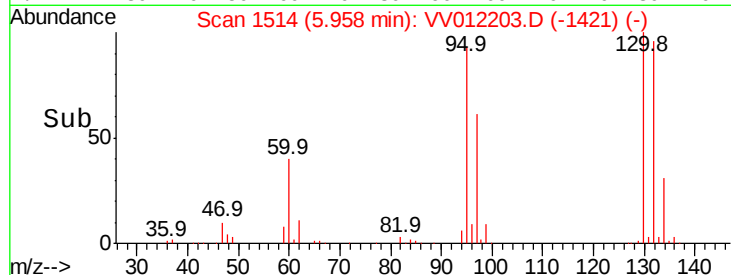
#34
 Trichloroethene
 Concen: 208.532 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. -0.00 min
 Lab File: VV012203.D
 Acq: 12 Aug 2019 12:32

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 697506
 Ion Ratio Lower Upper
 95 100
 97 64.4 44.3 82.3
 132 101.8 70.7 131.3
 130 105.8 72.3 134.3

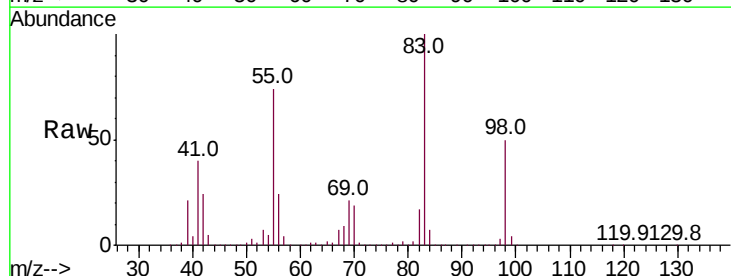


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

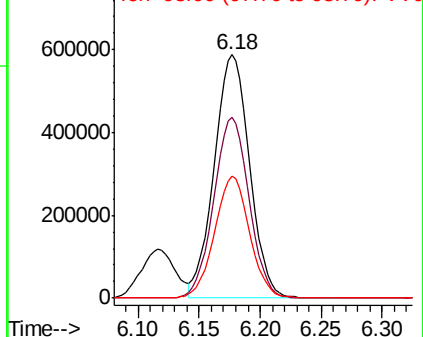
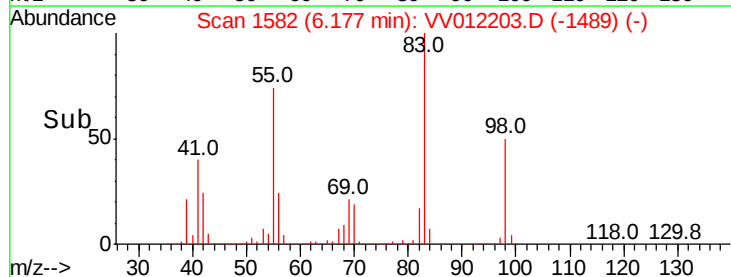


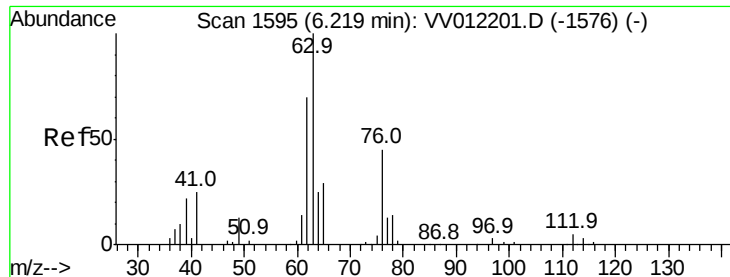
#35
 Methylcyclohexane
 Concen: 223.126 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV012203.D
 Acq: 12 Aug 2019 12:32

Tgt Ion: 83 Resp: 1192988
 Ion Ratio Lower Upper
 83 100
 55 74.2 60.7 91.1
 98 49.7 40.1 60.1



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: 228.907 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

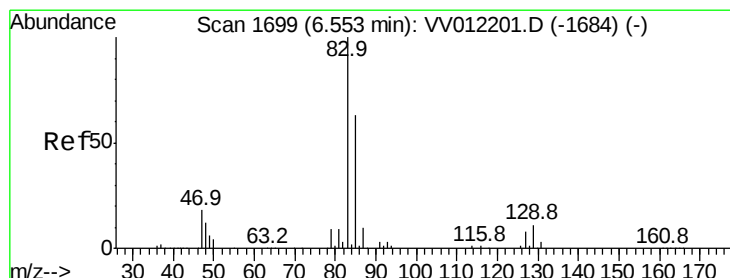
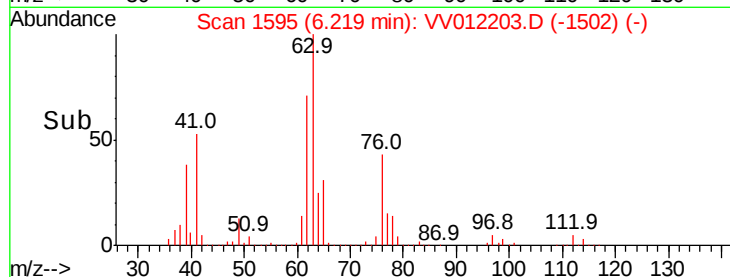
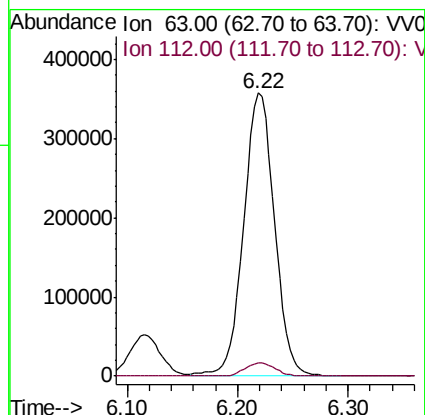
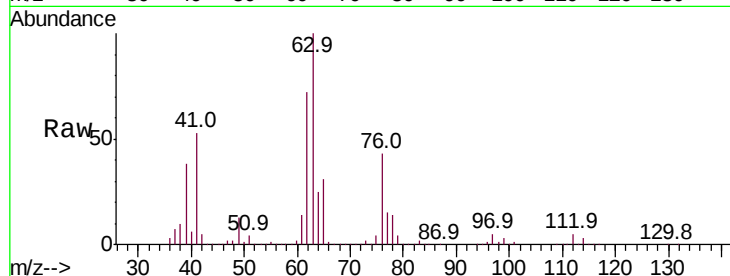
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 63 Resp: 690569

Ion Ratio Lower Upper

63 100

112 4.7 4.0 6.0



#38

Bromodichloromethane

Concen: 206.095 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

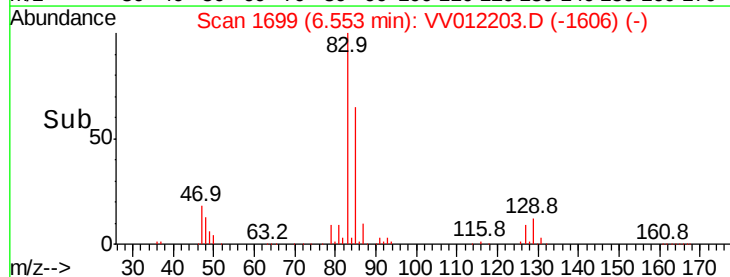
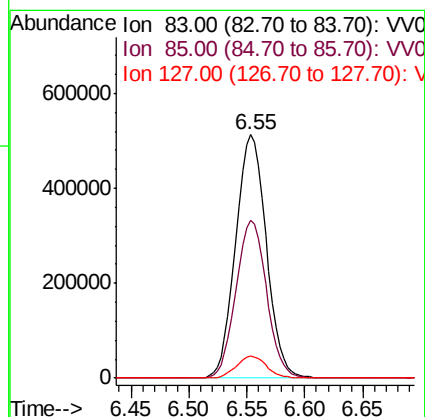
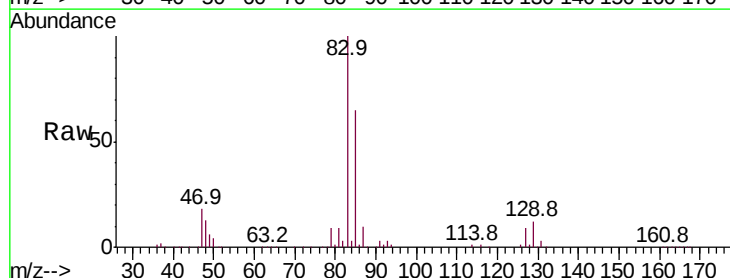
Tgt Ion: 83 Resp: 939775

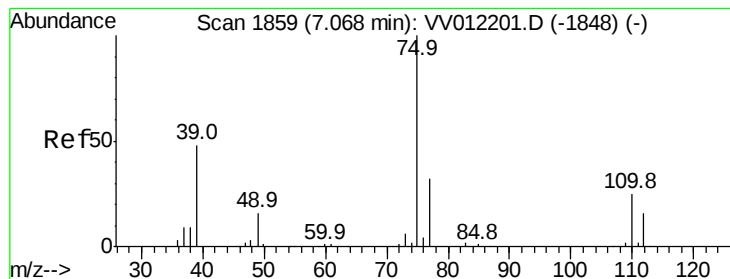
Ion Ratio Lower Upper

83 100

85 64.6 44.2 82.0

127 8.9 6.7 10.1



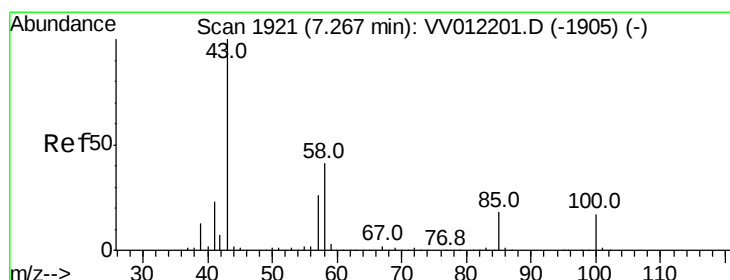
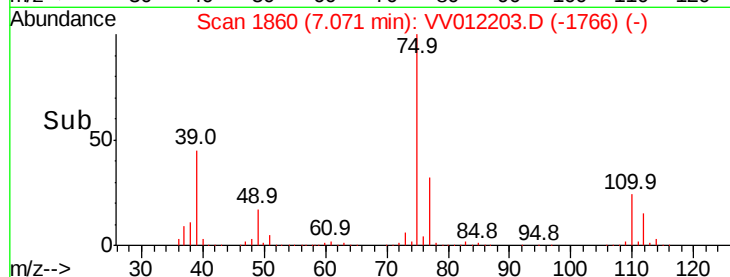
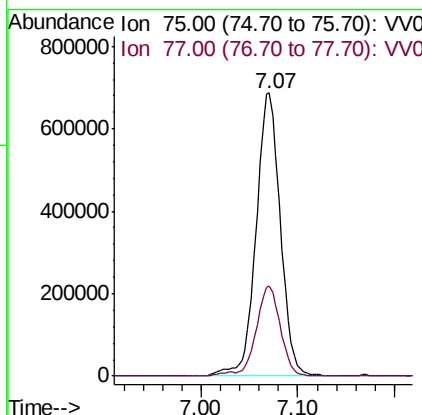
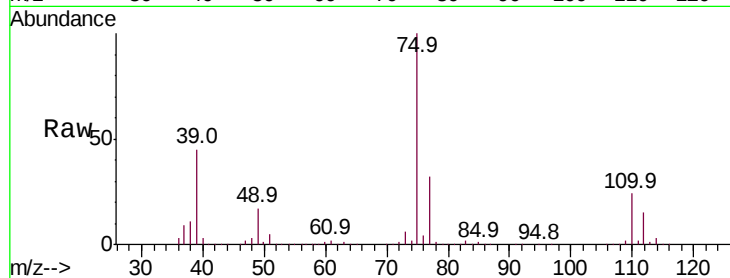


#39

cis-1,3-Dichloropropene
 Concen: 235.352 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV012203.D
 Acq: 12 Aug 2019 12:32

Instrument :
 MSVOA_V
 ClientSampleId :

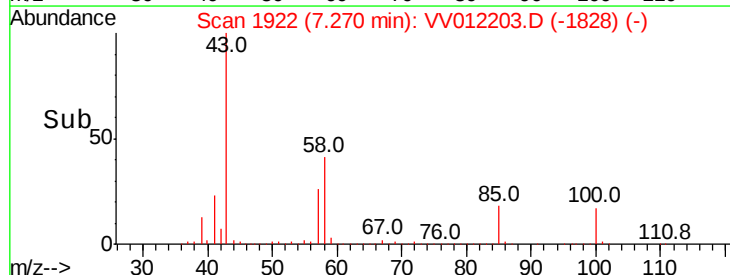
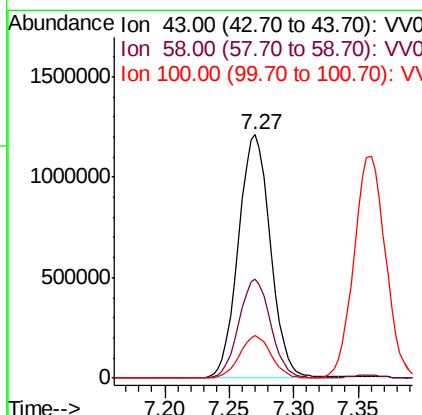
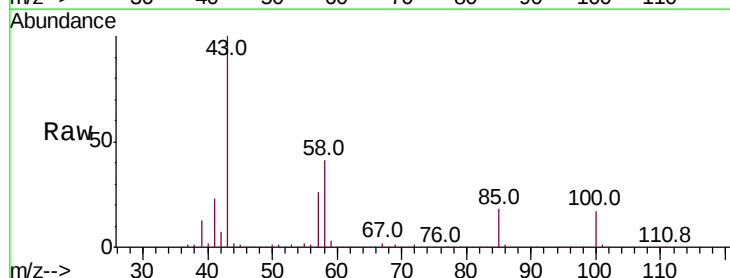
Tot Ion: 75 Resp: 1197970
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.6 42.0

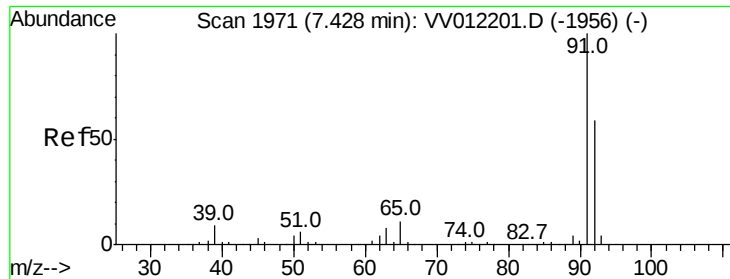


#40

4-Methyl-2-pentanone
 Concen: 535.108 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV012203.D
 Acq: 12 Aug 2019 12:32

Tgt Ion: 43 Resp: 2097357
 Ion Ratio Lower Upper
 43 100
 58 40.4 32.3 48.5
 100 17.1 13.2 19.8





#42

Toluene

Concen: 214.209 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

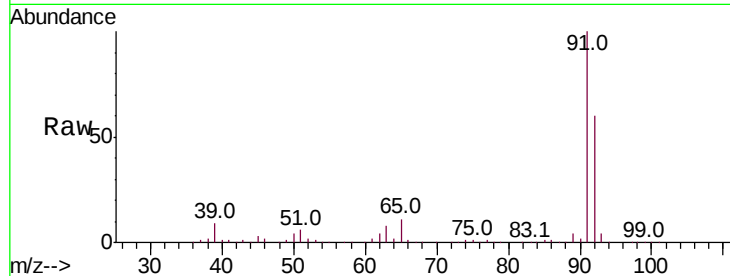
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 2930371

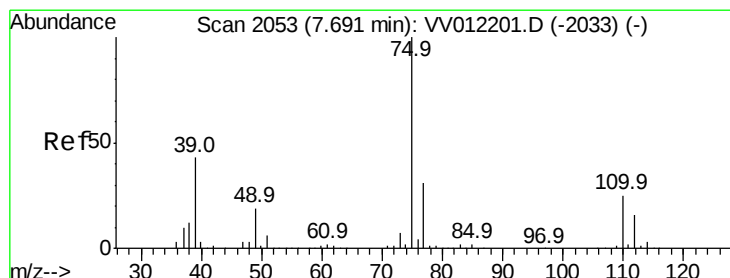
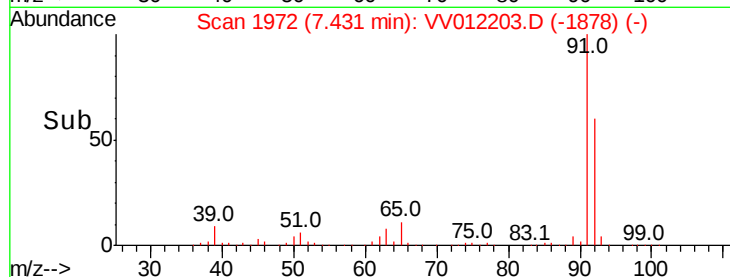
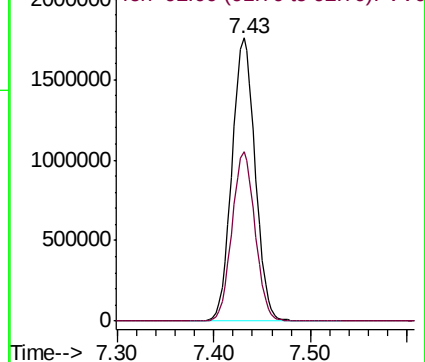
Ion Ratio Lower Upper

91 100

92 59.7 41.4 76.8



Abundance Ion 91.00 (90.70 to 91.70): VV0
Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 231.933 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012203.D

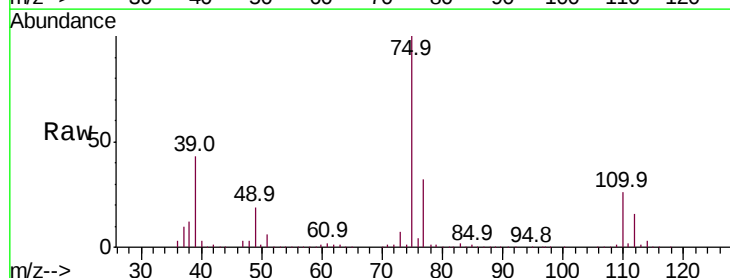
Acq: 12 Aug 2019 12:32

Tgt Ion: 75 Resp: 1071262

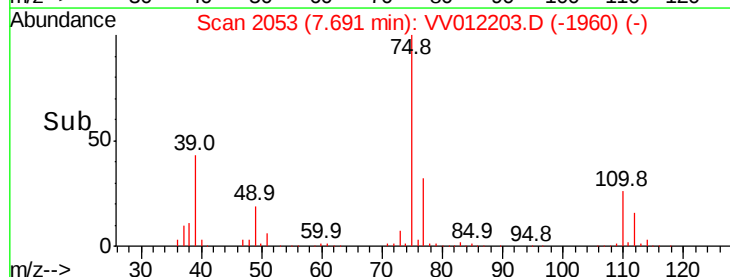
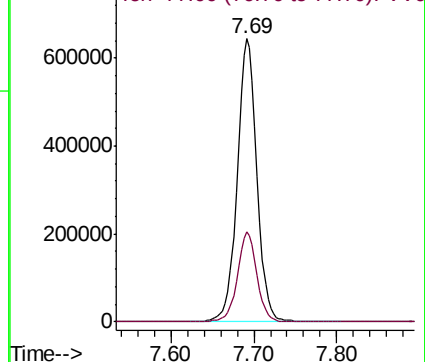
Ion Ratio Lower Upper

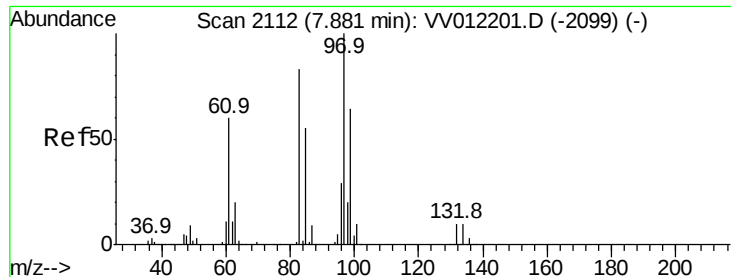
75 100

77 31.7 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV0
Ion 77.00 (76.70 to 77.70): VV0





#45

1,1,2-Trichloroethane

Concen: 210.144 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 97 Resp: 684640

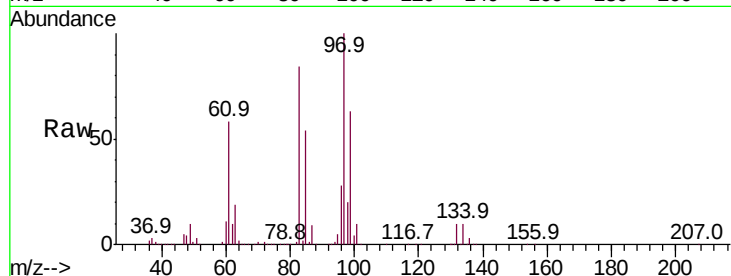
Ion Ratio Lower Upper

97 100

99 62.6 44.5 82.7

83 84.2 57.8 107.4

85 54.3 38.4 71.4

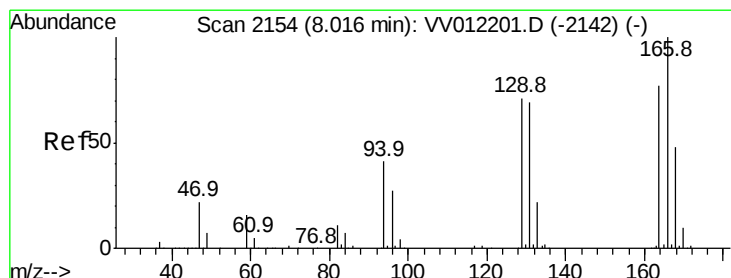
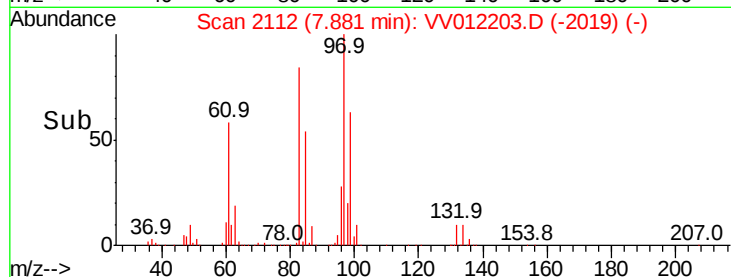
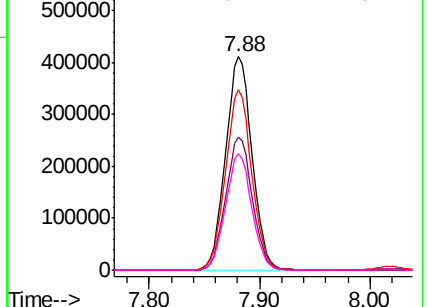


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 189.547 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

Tgt Ion:164 Resp: 597152

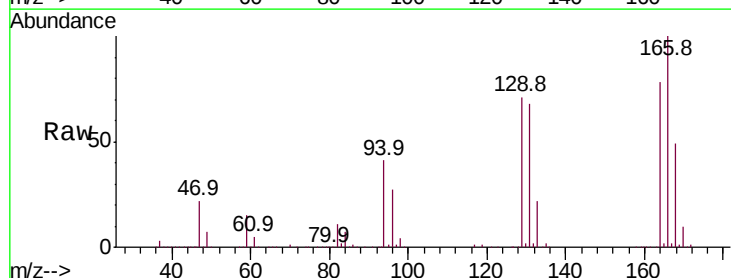
Ion Ratio Lower Upper

164 100

129 91.2 64.1 119.1

131 87.9 62.4 115.8

166 128.7 90.6 168.3

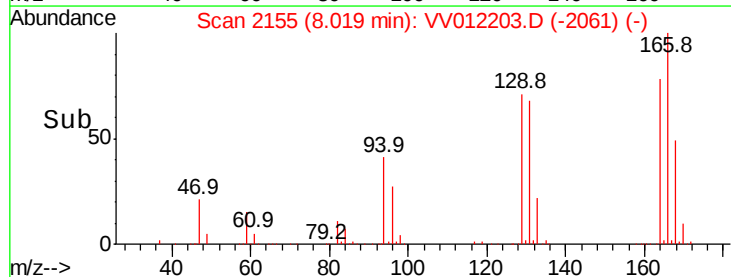
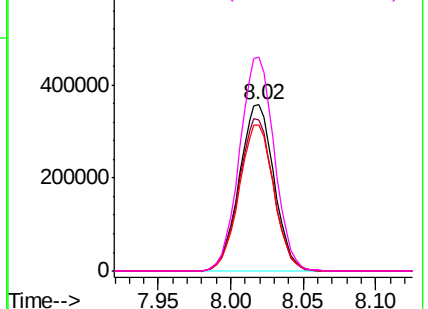


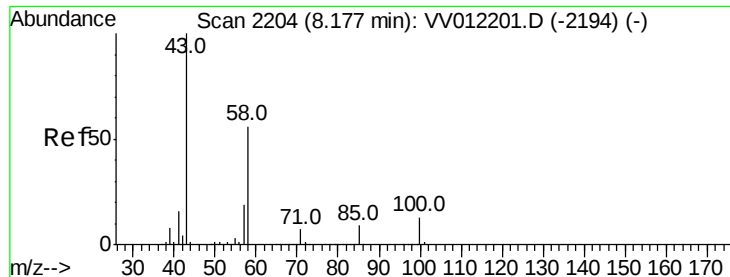
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

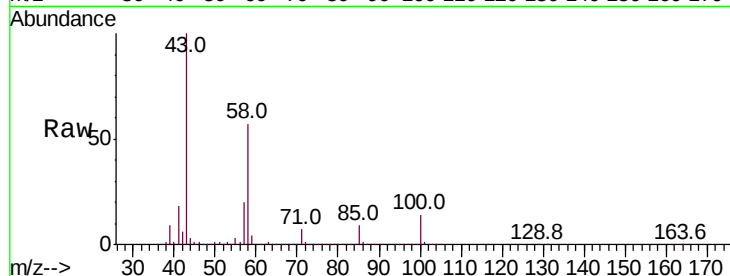




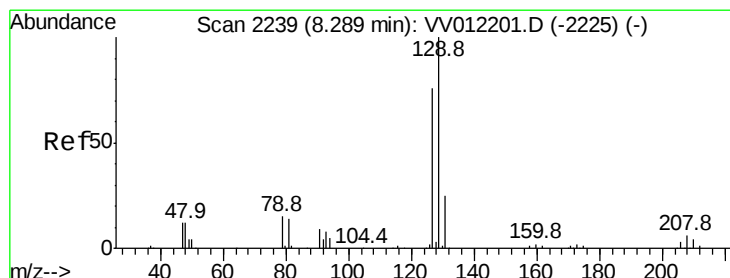
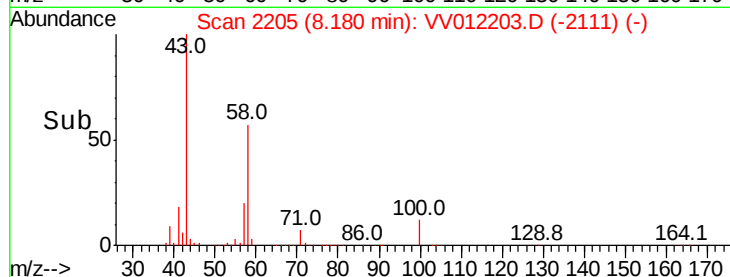
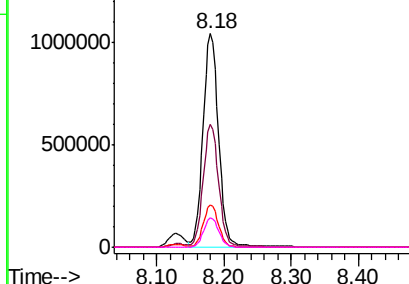
#48
2-Hexanone
Concen: 555.191 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV012203.D
Acq: 12 Aug 2019 12:32

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 1675176
Ion Ratio Lower Upper
43 100
58 56.4 43.5 65.3
57 19.2 15.1 22.7
100 13.2 10.4 15.6

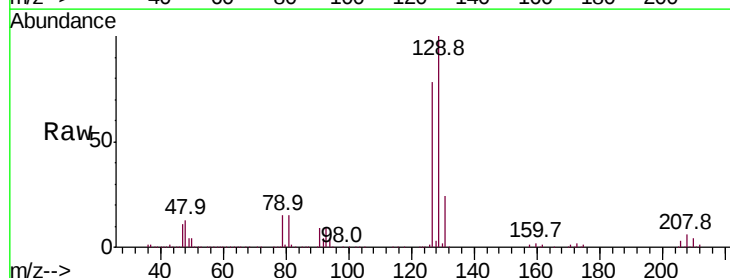


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

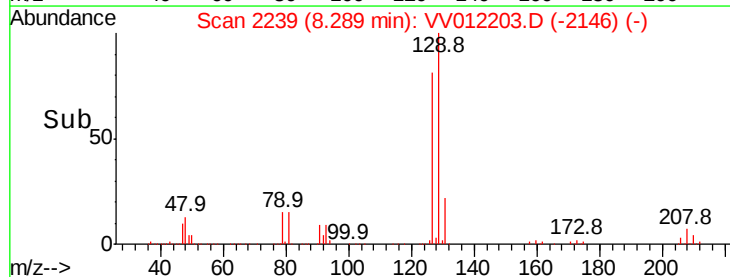
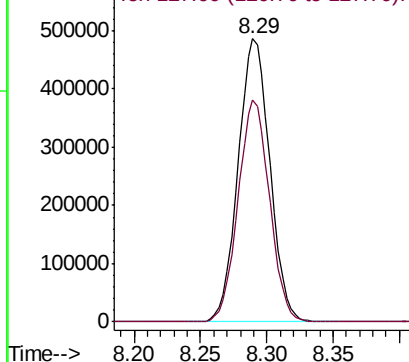


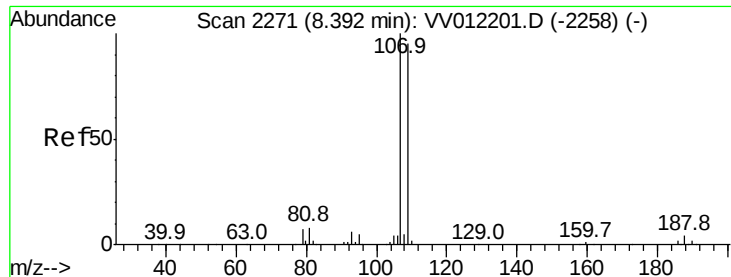
#49
Dibromochloromethane
Concen: 199.827 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV012203.D
Acq: 12 Aug 2019 12:32

Tgt Ion: 129 Resp: 808534
Ion Ratio Lower Upper
129 100
127 78.3 53.3 98.9



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

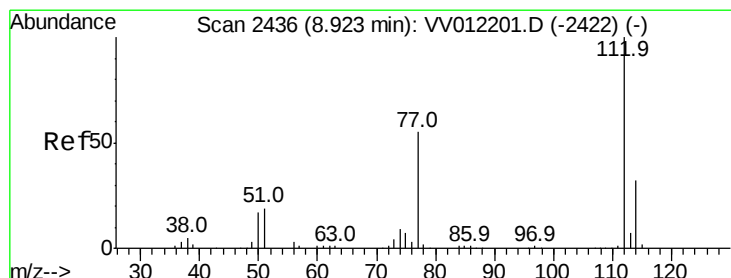
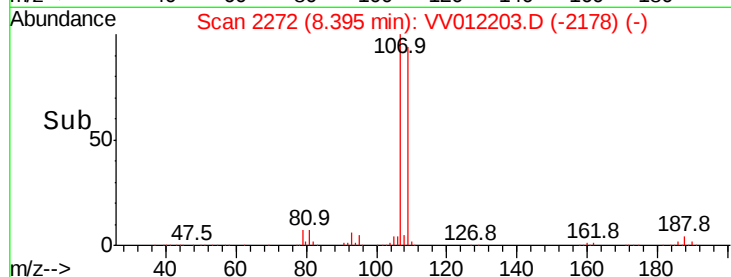
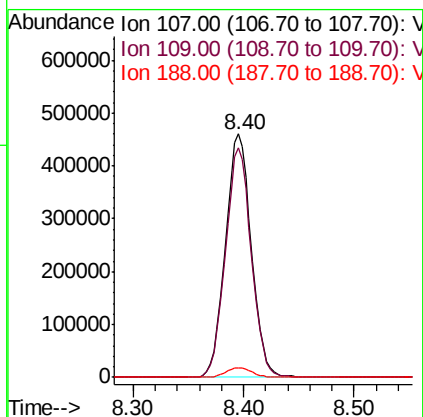
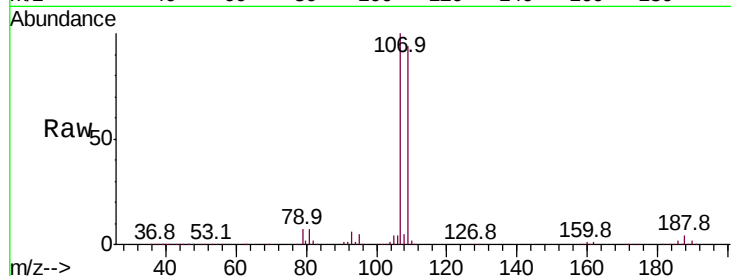




#50
1,2-Dibromoethane
Concen: 210.969 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV012203.D
Acq: 12 Aug 2019 12:32

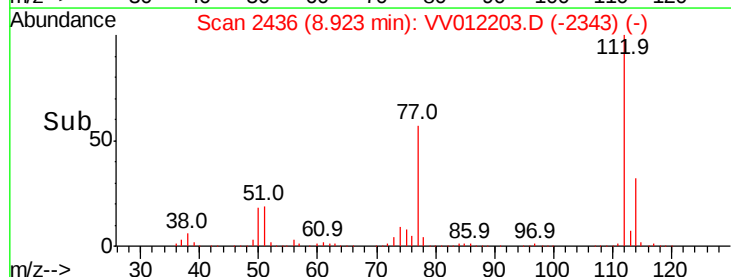
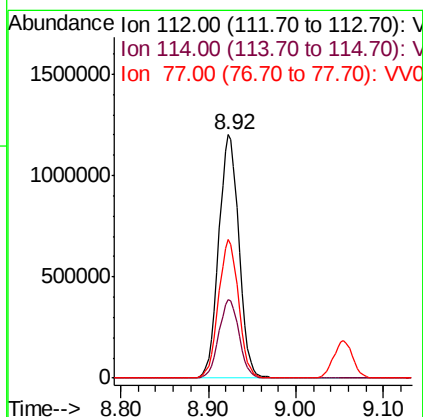
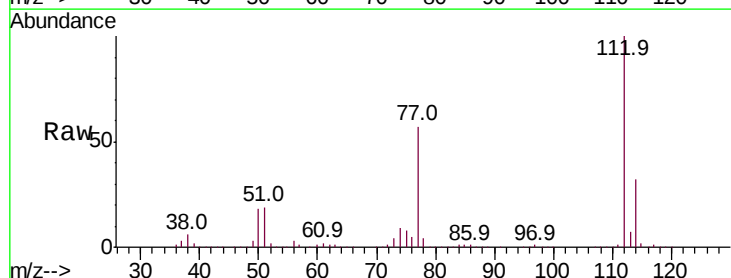
Instrument :
MSVOA_V
ClientSampleId :

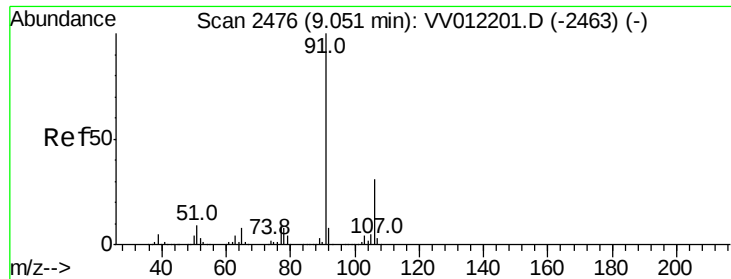
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.3	66.4	123.4
188	3.9	3.0	4.6



#51
Chlorobenzene
Concen: 207.615 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VV012203.D
Acq: 12 Aug 2019 12:32

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.5	41.9
77	56.7	44.4	66.6





#52

Ethylbenzene

Concen: 217.240 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

Instrument :

MSVOA_V

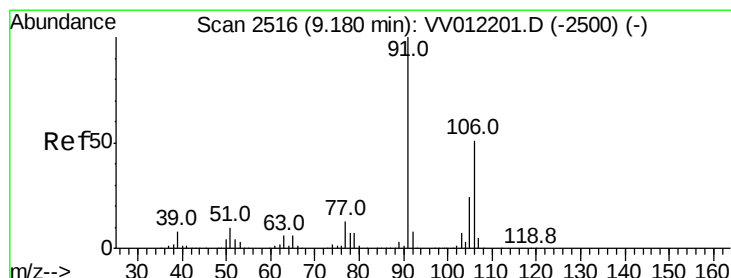
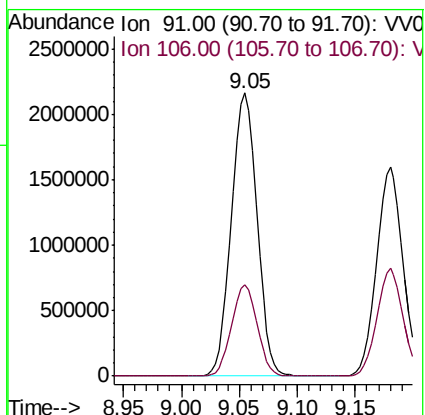
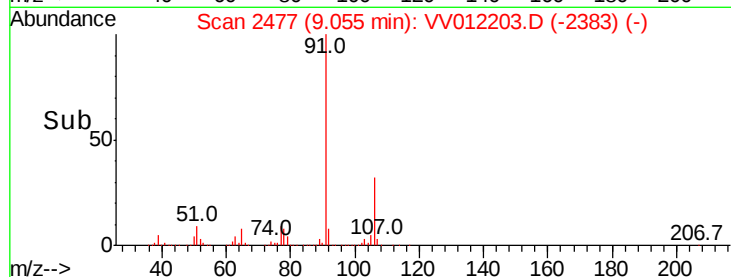
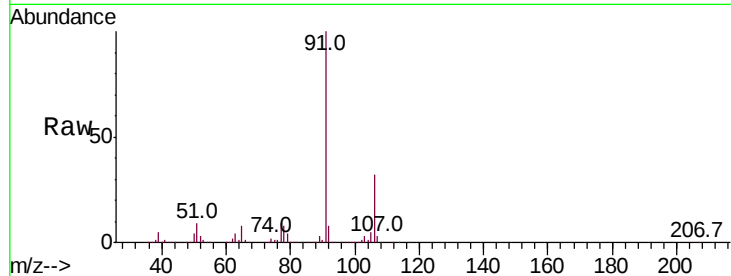
ClientSampleId :

Tot Ion: 91 Resp: 3309132

Ion Ratio Lower Upper

91 100

106 32.1 21.8 40.4



#53

m,p-Xylene

Concen: 216.353 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV012203.D

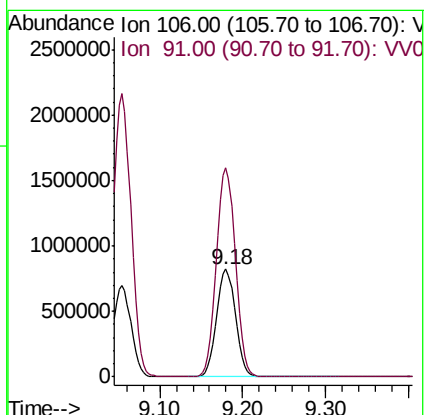
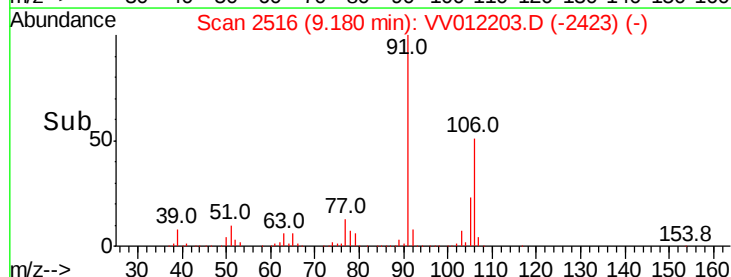
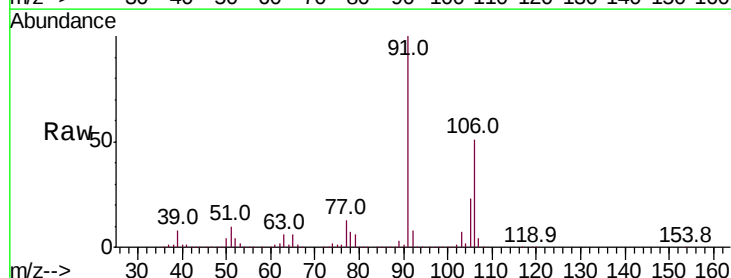
Acq: 12 Aug 2019 12:32

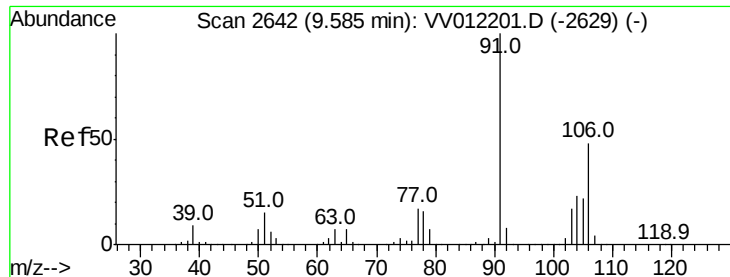
Tgt Ion: 106 Resp: 1300740

Ion Ratio Lower Upper

106 100

91 195.0 138.0 256.4





#54

o-xylene

Concen: 215.043 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

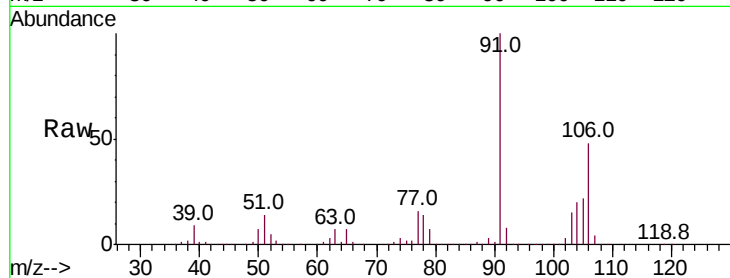
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 1269940

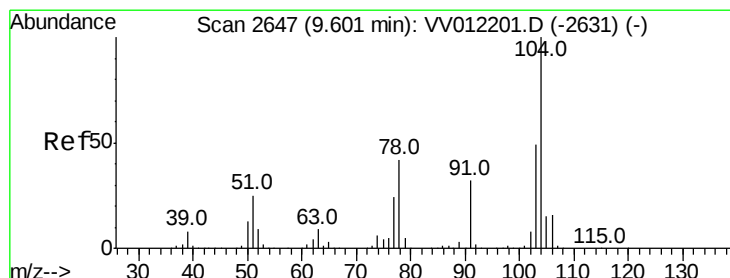
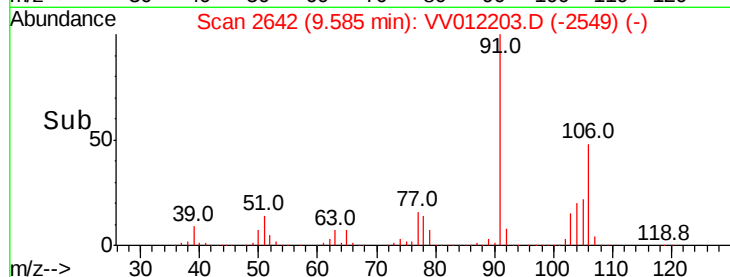
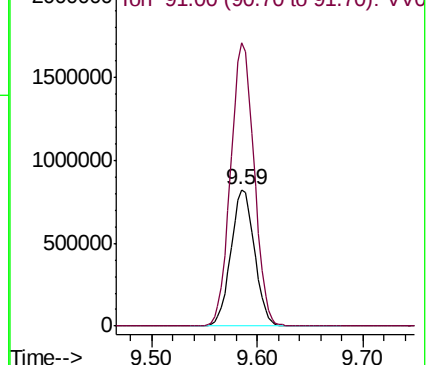
Ion Ratio Lower Upper

106 100

91 207.1 146.5 272.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 221.790 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV012203.D

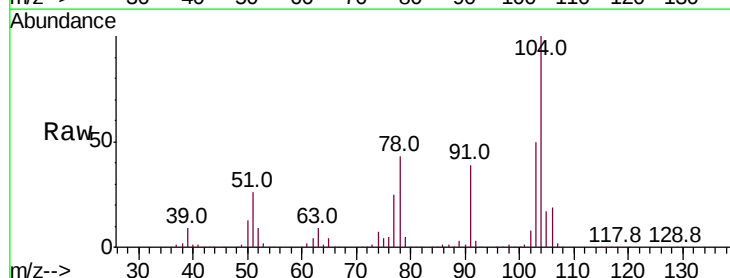
Acq: 12 Aug 2019 12:32

Tgt Ion:104 Resp: 2203994

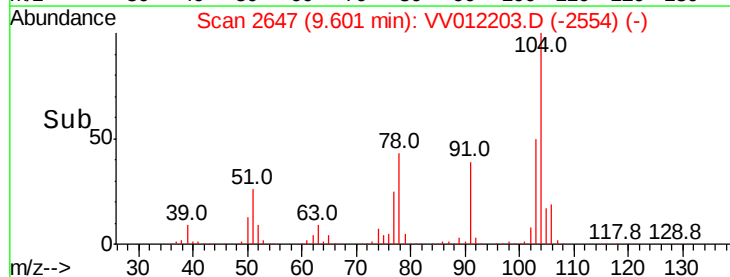
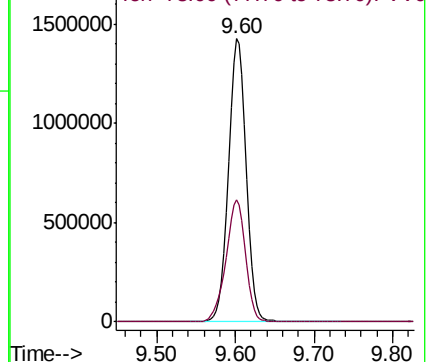
Ion Ratio Lower Upper

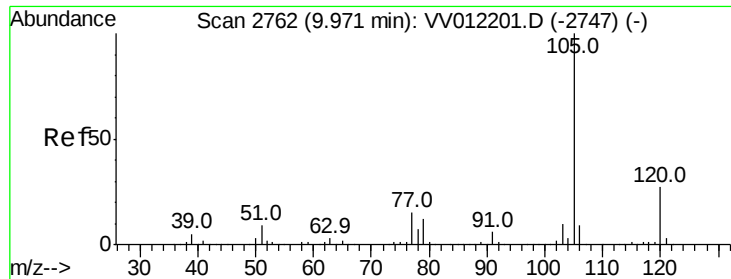
104 100

78 43.3 29.5 54.7



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 213.471 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

Instrument :
MSVOA_V
ClientSampled :

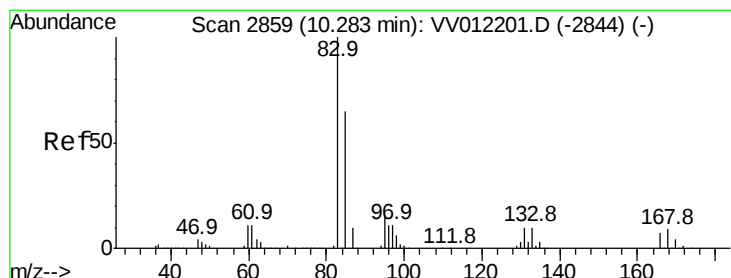
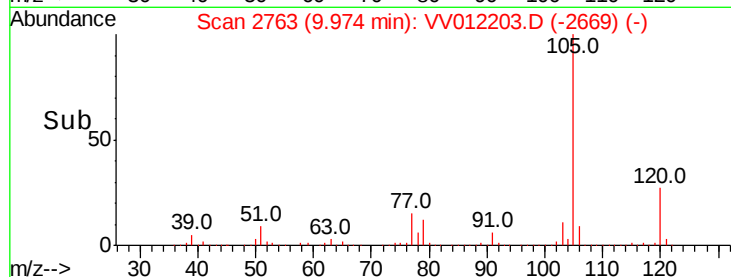
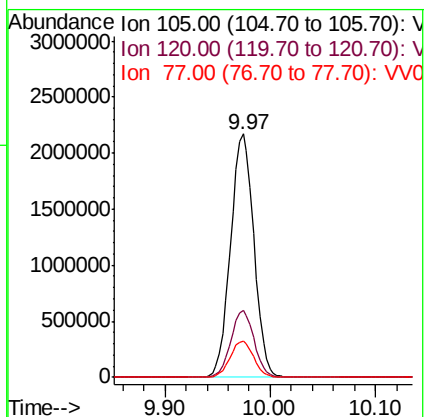
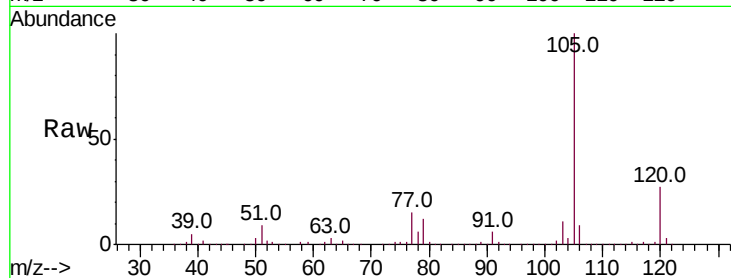
Tot Ion:105 Resp: 3320059

Ion Ratio Lower Upper

105 100

120 27.3 21.8 32.8

77 14.9 12.0 18.0



#58

1,1,2,2-Tetrachloroethane

Concen: 228.419 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

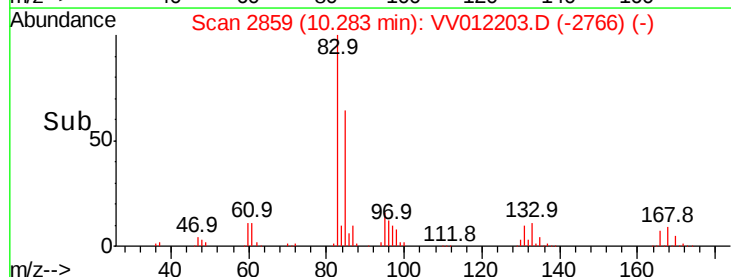
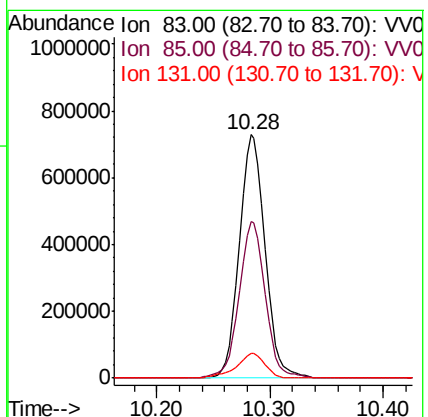
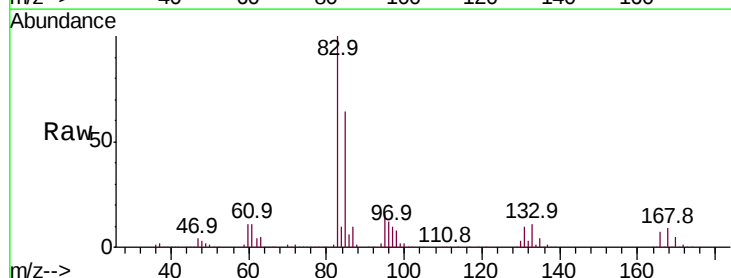
Tgt Ion: 83 Resp: 1156567

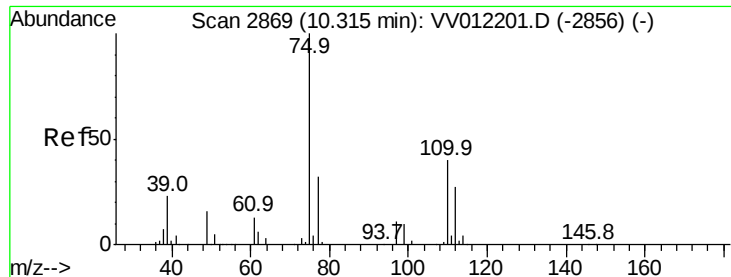
Ion Ratio Lower Upper

83 100

85 64.5 45.3 84.1

131 10.2 8.4 12.6

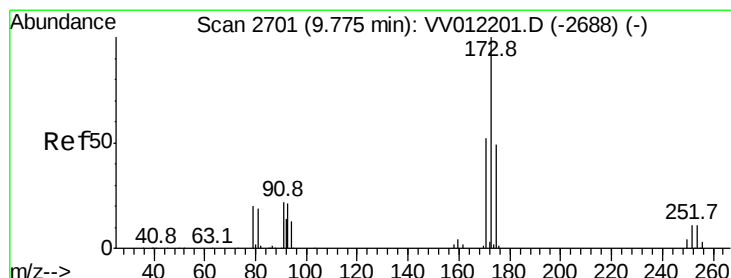
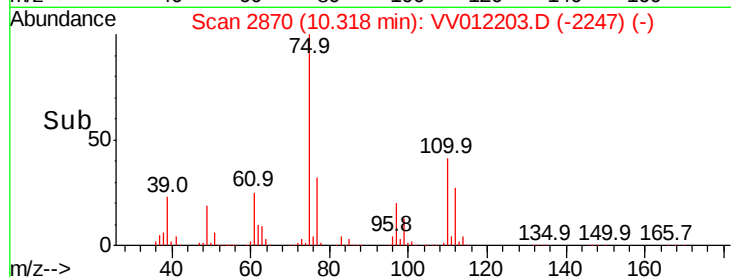
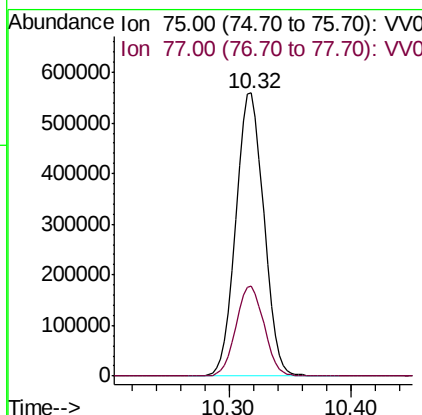
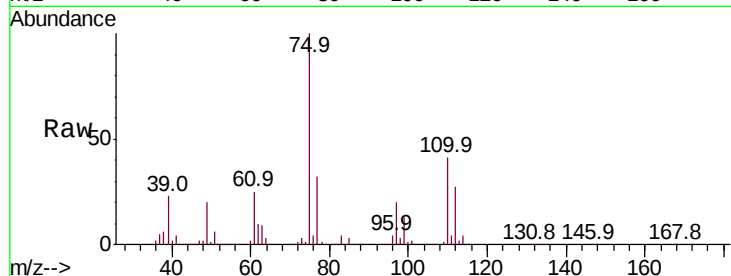




#59
1,2,3-Trichloropropane
Concen: 221.244 ug/L
RT: 10.32 min Scan# 2870
Delta R.T. 0.00 min
Lab File: VV012203.D
Acq: 12 Aug 2019 12:32

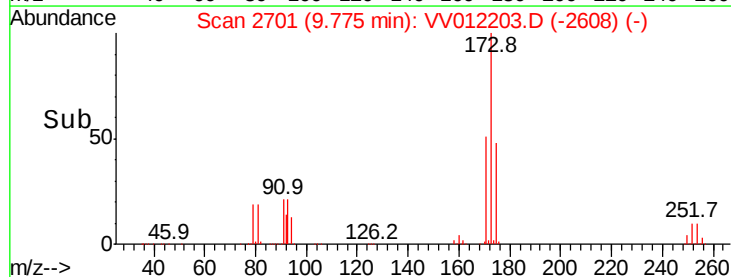
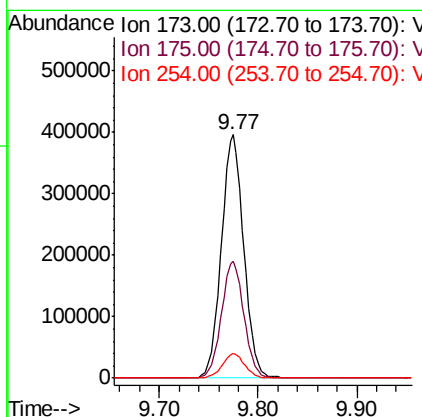
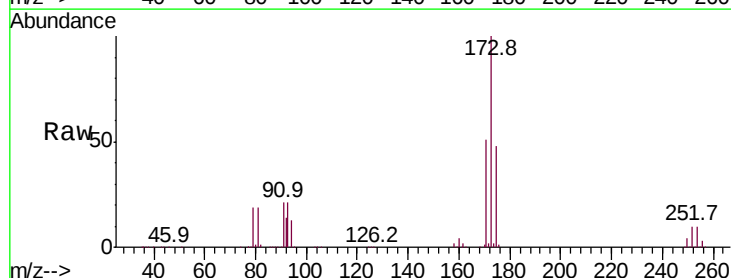
Instrument :
MSVOA_V
ClientSampleId :

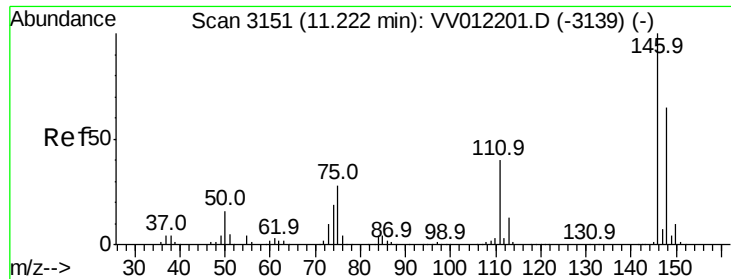
Tot Ion: 75 Resp: 888096
Ion Ratio Lower Upper
75 100
77 31.8 25.4 38.2



#61
Bromoform
Concen: 192.290 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VV012203.D
Acq: 12 Aug 2019 12:32

Tgt Ion: 173 Resp: 631048
Ion Ratio Lower Upper
173 100
175 48.2 39.0 58.4
254 10.2 7.8 11.8

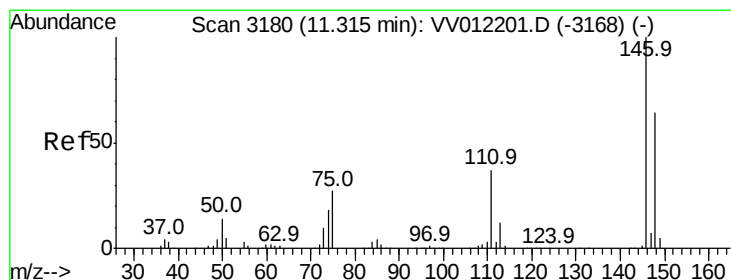
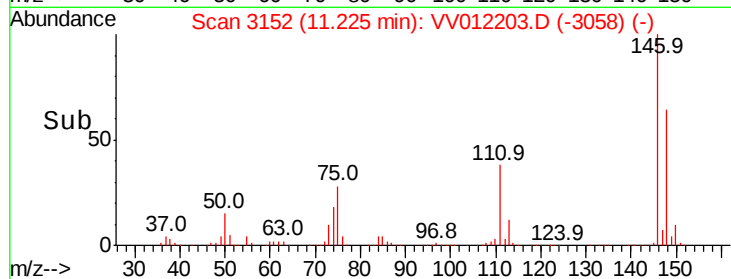
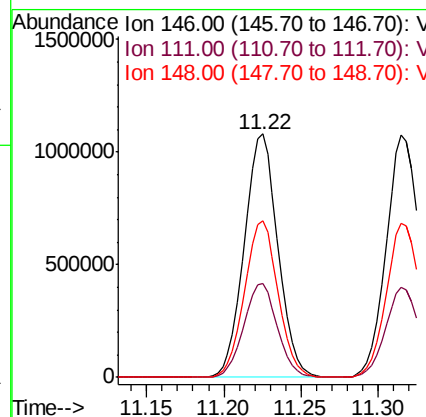
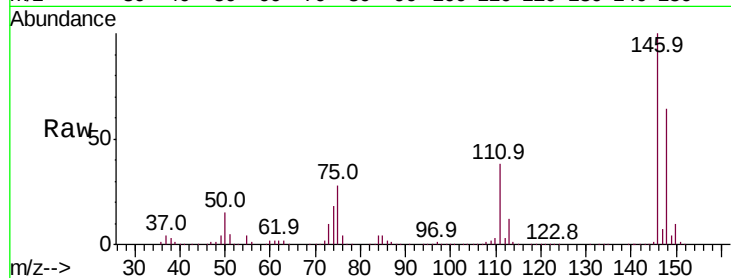




#62
 1,3-Dichlorobenzene
 Concen: 203.116 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV012203.D
 Acq: 12 Aug 2019 12:32

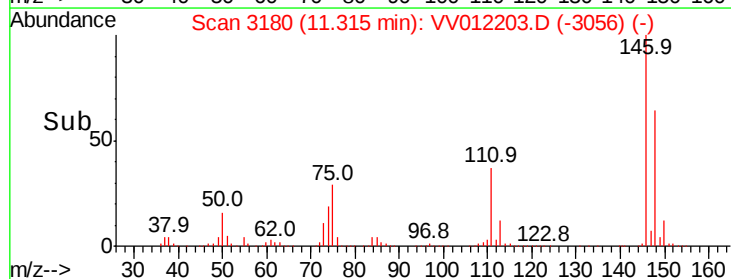
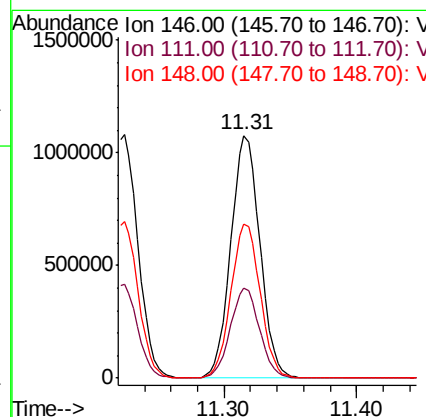
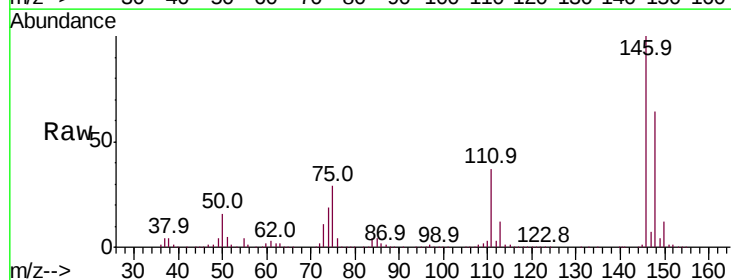
Instrument :
 MSVOA_V
 ClientSampled :

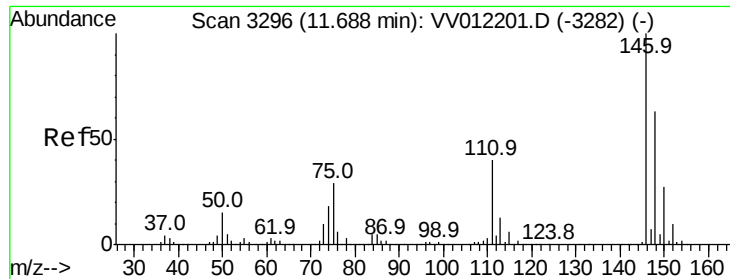
Tot Ion:146 Resp: 1634379
 Ion Ratio Lower Upper
 146 100
 111 38.4 27.7 51.5
 148 64.4 45.5 84.5



#63
 1,4-Dichlorobenzene
 Concen: 203.074 ug/L
 RT: 11.31 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: VV012203.D
 Acq: 12 Aug 2019 12:32

Tgt Ion:146 Resp: 1640068
 Ion Ratio Lower Upper
 146 100
 111 37.2 25.8 48.0
 148 63.7 44.8 83.2

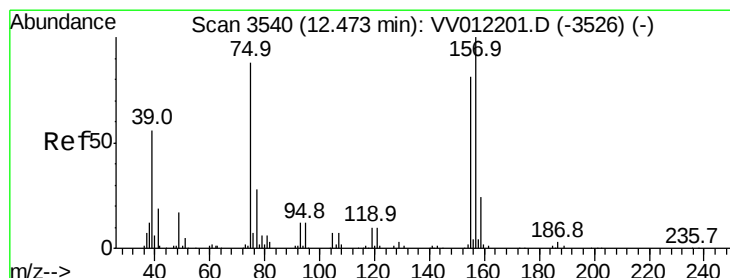
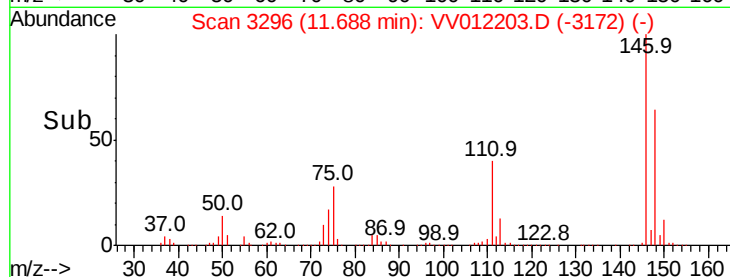
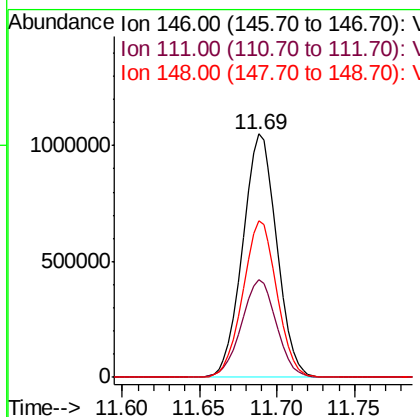
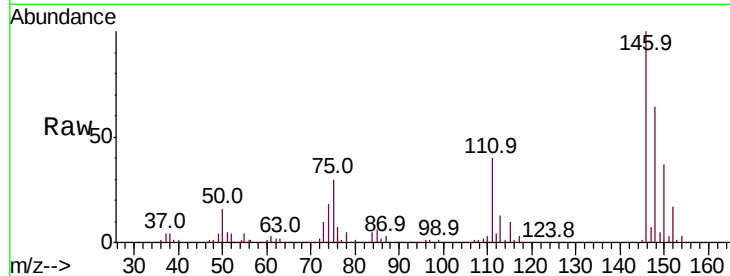




#65
 1,2-Dichlorobenzene
 Concen: 199.057 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV012203.D
 Acq: 12 Aug 2019 12:32

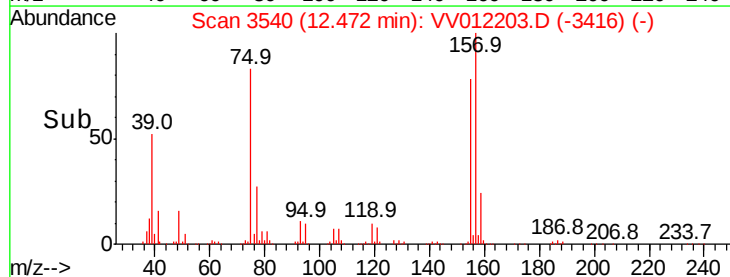
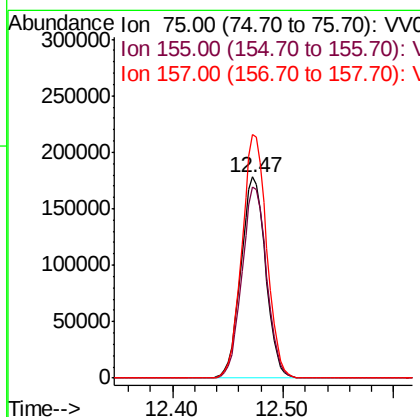
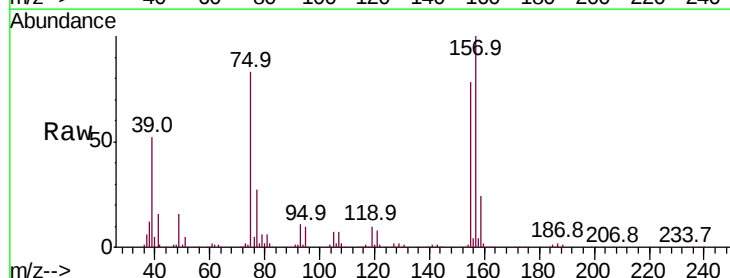
Instrument :
 MSVOA_V
 ClientSampleId :

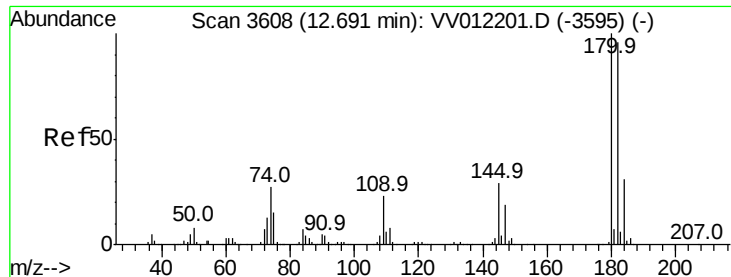
Tot Ion:146 Resp: 1611533
 Ion Ratio Lower Upper
 146 100
 111 40.1 31.8 47.6
 148 64.1 50.6 76.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 221.442 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. -0.00 min
 Lab File: VV012203.D
 Acq: 12 Aug 2019 12:32

Tgt Ion: 75 Resp: 275482
 Ion Ratio Lower Upper
 75 100
 155 94.8 73.9 110.9
 157 121.1 91.2 136.8



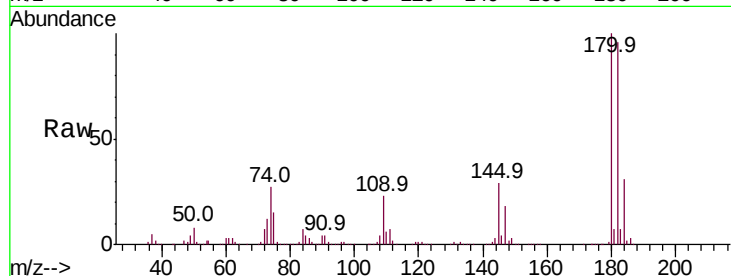


#67
 1,3,5-Trichlorobenzene
 Concen: 203.746 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV012203.D
 Acq: 12 Aug 2019 12:32

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180 Resp: 1290877

Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.0	114.0
184	30.3	24.0	36.0
145	28.7	23.0	34.6



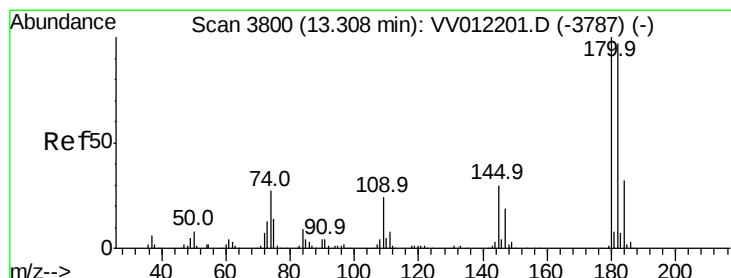
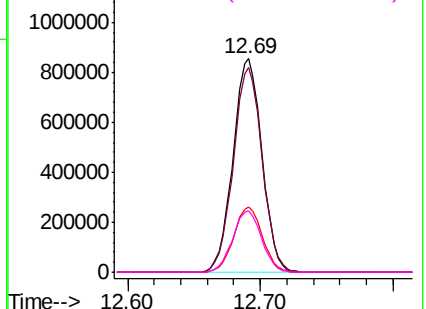
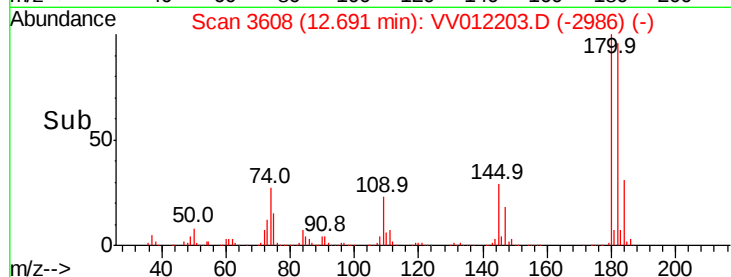
Abundance

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

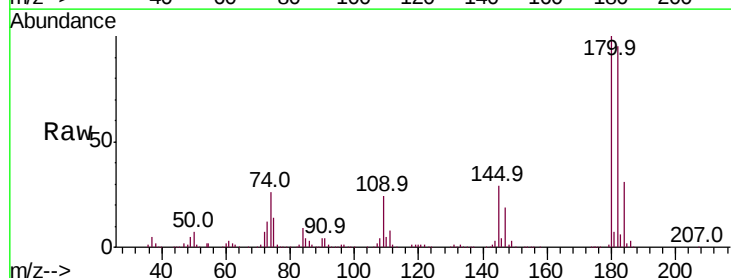
Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 223.992 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV012203.D
 Acq: 12 Aug 2019 12:32

Tgt Ion:180 Resp: 1172453

Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.6	115.0
145	29.3	23.8	35.6

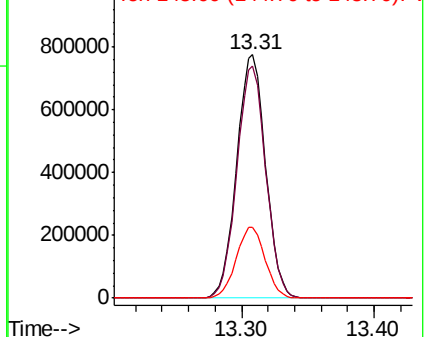
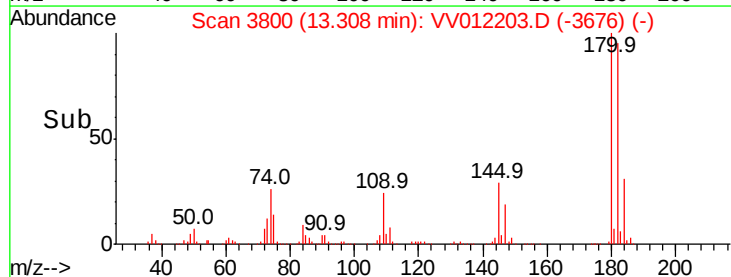


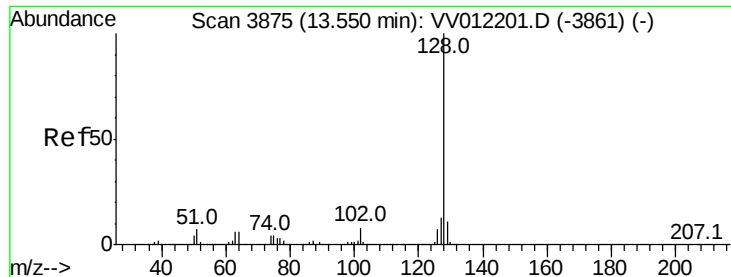
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 251.763 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

Instrument :

MSVOA_V

ClientSampleId :

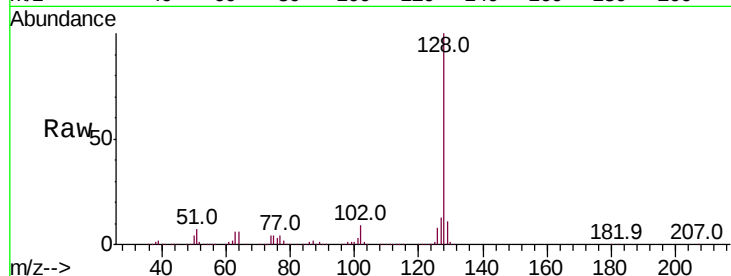
Tot Ion:128 Resp: 3676623

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

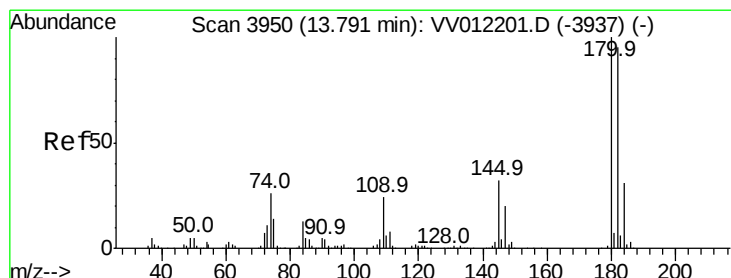
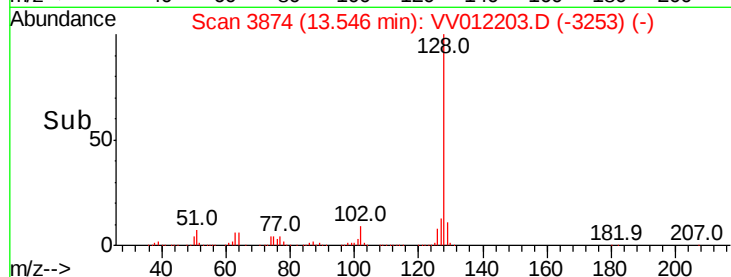
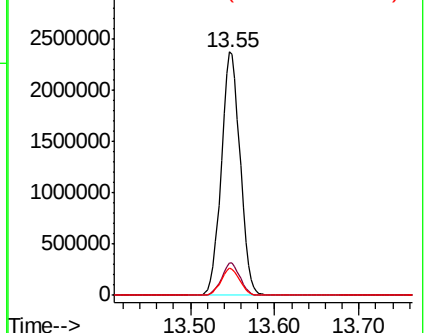
129 11.0 8.6 13.0



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: 212.566 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV012203.D

Acq: 12 Aug 2019 12:32

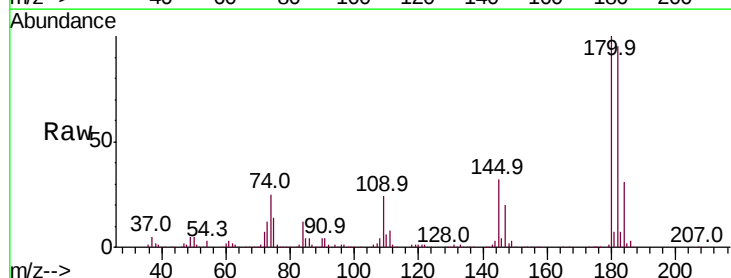
Tgt Ion:180 Resp: 1167622

Ion Ratio Lower Upper

180 100

182 94.9 75.4 113.2

145 31.5 25.0 37.4



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

