

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081219\
 Data File : VV012201.D
 Acq On : 12 Aug 2019 11:45
 Operator : SY/MD
 Sample : VSTDIC050
 Misc : 5mL/MSVOA V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 12 14:04:12 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	496879	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	480307	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	252167	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	158174	75.66	ug/L	0.00
7) Chloroethane-d5	1.58	69	137049	93.19	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	302814	76.91	ug/L	0.00
21) 2-Butanone-d5	3.92	46	284183	222.47	ug/L	0.00
24) Chloroform-d	4.40	84	364364	81.10	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	227676	85.99	ug/L	0.00
32) Benzene-d6	5.10	84	745698	83.98	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.11	67	231885	91.34	ug/L	0.00
41) Toluene-d8	7.36	98	683695	81.84	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	114343	85.66	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	205636	201.81	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	327344	93.23	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	285161	80.67	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	224936	52.827	ug/L	100
3) Chloromethane	1.25	50	204332	64.517	ug/L	100
5) Vinyl chloride	1.32	62	207431	69.334	ug/L	100
6) Bromomethane	1.53	94	113996	65.961	ug/L	100
8) Chloroethane	1.60	64	118381	73.994	ug/L	100
9) Trichlorofluoromethane	1.77	101	275608	57.311	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	157478	66.926	ug/L	100
12) 1,1-Dichloroethene	2.14	96	147624	67.974	ug/L	100
13) Acetone	2.18	43	220536	151.899	ug/L	100
14) Carbon disulfide	2.32	76	464413	61.176	ug/L	100
15) Methyl Acetate	2.45	43	180874	63.855	ug/L	100
16) Methylene chloride	2.53	84	180950	57.097	ug/L	100
17) trans-1,2-Dichloroethene	2.79	96	170684	56.949	ug/L	100
18) Methyl tert-butyl Ether	2.80	73	514634	54.201	ug/L	100
19) 1,1-Dichloroethane	3.23	63	316658	59.344	ug/L	100
20) cis-1,2-Dichloroethene	3.96	96	189133	55.812	ug/L	100
22) 2-Butanone	4.00	43	287885	136.756	ug/L	100
23) Bromochloromethane	4.30	128	96547	52.687	ug/L	100
25) Chloroform	4.42	83	327531	55.517	ug/L	100
27) 1,2-Dichloroethane	5.18	62	246928	53.836	ug/L	100
29) Cyclohexane	4.72	56	294937	63.010	ug/L	100
30) 1,1,1-Trichloroethane	4.66	97	279250	50.710	ug/L	100
31) Carbon tetrachloride	4.87	117	254540	49.800	ug/L	100
33) Benzene	5.14	78	716127	57.955	ug/L	100
34) Trichloroethene	5.96	95	182826	54.991	ug/L	100
35) Methylcyclohexane	6.18	83	316005	59.462	ug/L	100
37) 1,2-Dichloropropane	6.22	63	178796	59.626	ug/L	100
38) Bromodichloromethane	6.55	83	244662	53.981	ug/L	100
39) cis-1,3-Dichloropropene	7.07	75	283212	55.977	ug/L	100
40) 4-Methyl-2-pentanone	7.27	43	486111	124.776	ug/L	100

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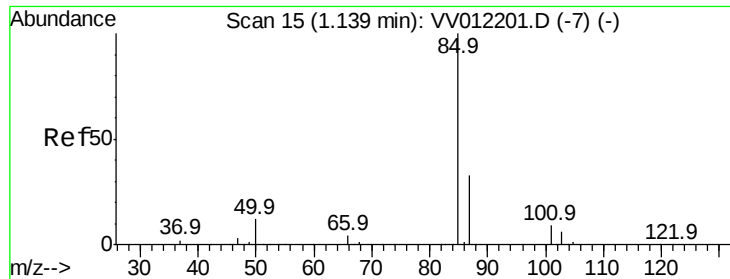
Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 12 14:04:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM081219WMA.M
 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	777477	57.178	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	262788	57.240	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	176022	54.356	ug/L	100
46) Tetrachloroethene	8.02	164	160138	51.139	ug/L	100
48) 2-Hexanone	8.18	43	398566	132.895	ug/L	100
49) Dibromochloromethane	8.29	129	204370	50.816	ug/L	100
50) 1,2-Dibromoethane	8.39	107	189688	53.731	ug/L	100
51) Chlorobenzene	8.92	112	500719	54.398	ug/L	100
52) Ethylbenzene	9.05	91	856126	56.545	ug/L	100
53) m,p-Xylene	9.18	106	336005	56.227	ug/L	100
54) o-xylene	9.59	106	324676	55.312	ug/L	100
55) Styrene	9.60	104	560488	56.745	ug/L	100
56) Isopropylbenzene	9.97	105	844182	54.608	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	287176	57.061	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	219841	55.100	ug/L	100
61) Bromoform	9.77	173	147831	47.384	ug/L	100
62) 1,3-Dichlorobenzene	11.22	146	408426	53.392	ug/L	100
63) 1,4-Dichlorobenzene	11.32	146	414309	53.962	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	409246	53.173	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	60516	51.169	ug/L	100
67) 1,3,5-Trichlorobenzene	12.69	180	314261	52.175	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	260673	52.385	ug/L	100
69) Naphthalene	13.55	128	767913	55.313	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	274611	52.587	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 52.827 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

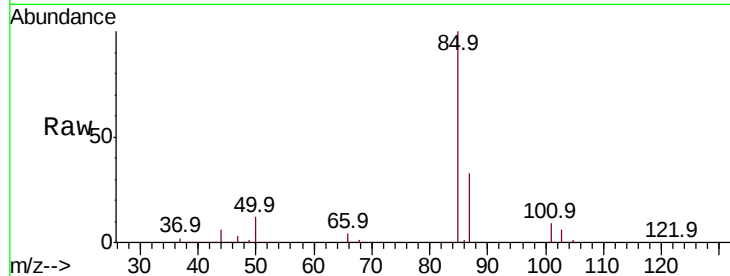
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 85 Resp: 224936

Ion Ratio Lower Upper

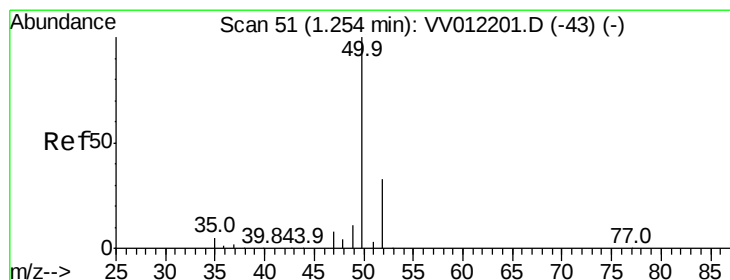
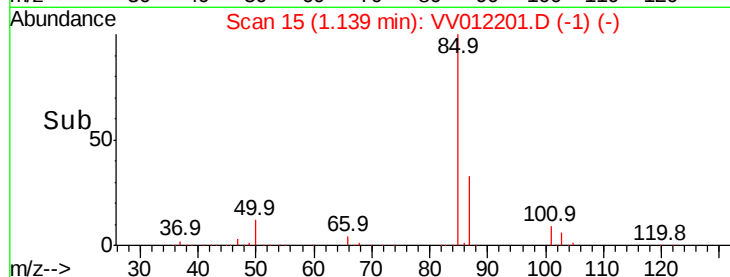
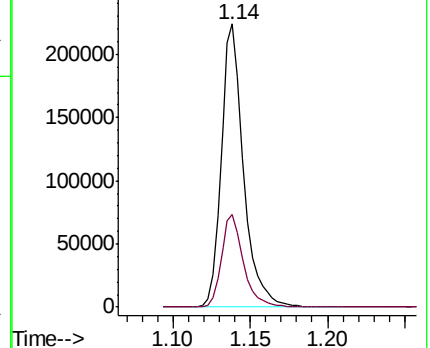
85 100

87 32.4 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV012201.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV012201.D (-7) (-)



#3

Chloromethane

Concen: 64.517 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012201.D

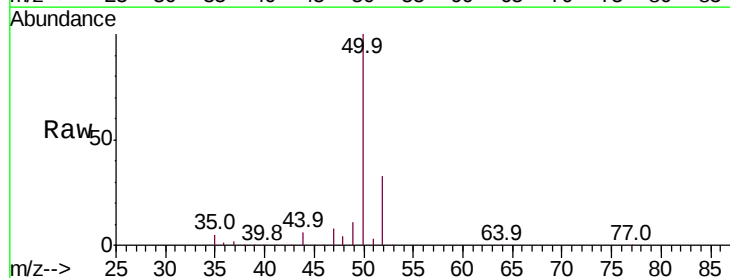
Acq: 12 Aug 2019 11:45

Tgt Ion: 50 Resp: 204332

Ion Ratio Lower Upper

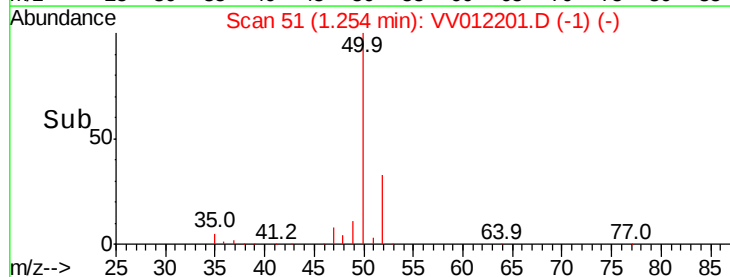
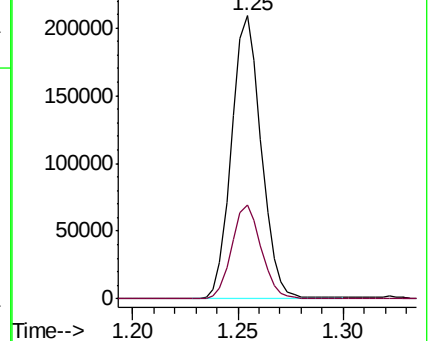
50 100

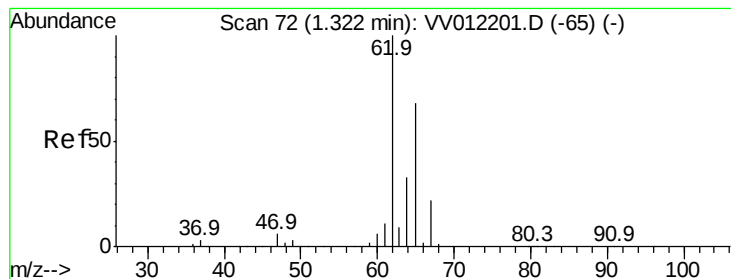
52 33.3 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VV012201.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV012201.D (-43) (-)





#5

Vinyl chloride

Concen: 69.334 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

Instrument :

MSVOA_V

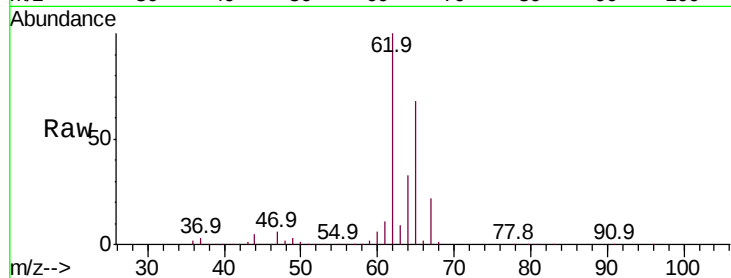
ClientSampled :

Tot Ion: 62 Resp: 207431

Ion Ratio Lower Upper

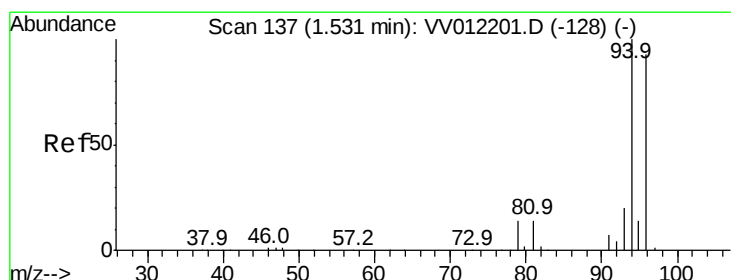
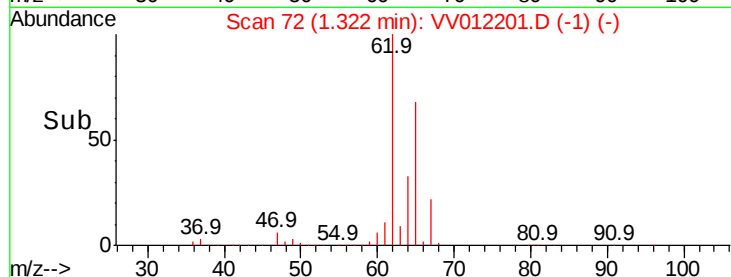
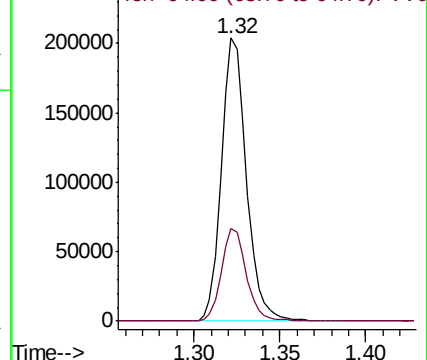
62 100

64 33.0 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 65.961 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV012201.D

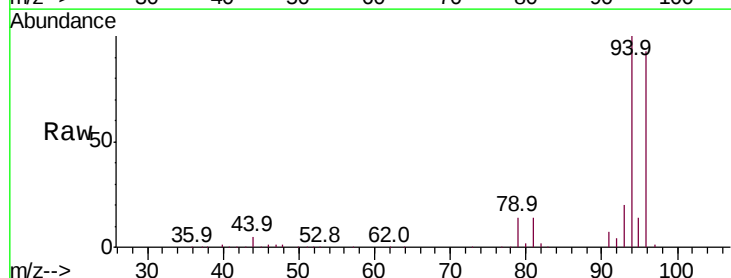
Acq: 12 Aug 2019 11:45

Tgt Ion: 94 Resp: 113996

Ion Ratio Lower Upper

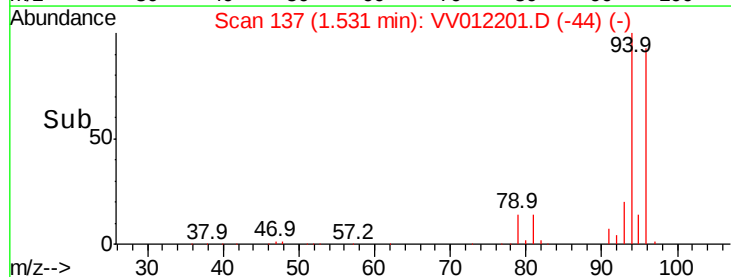
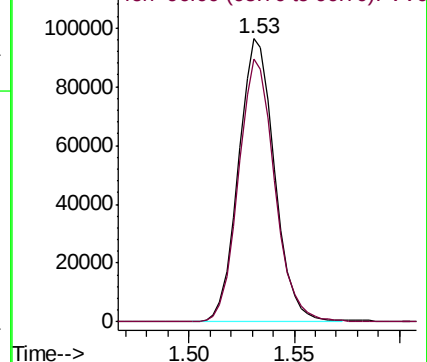
94 100

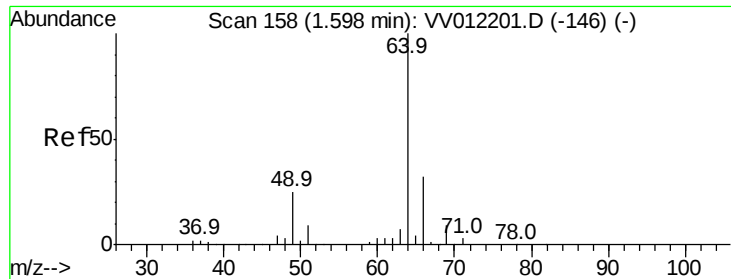
96 92.9 65.0 120.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

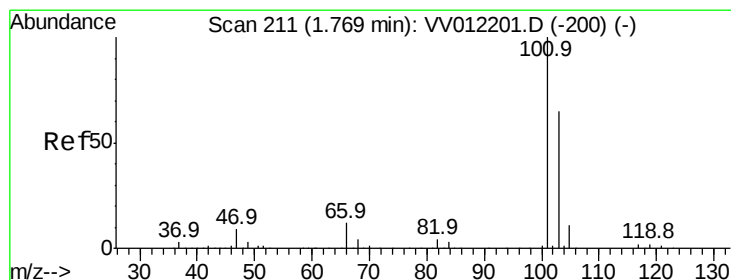
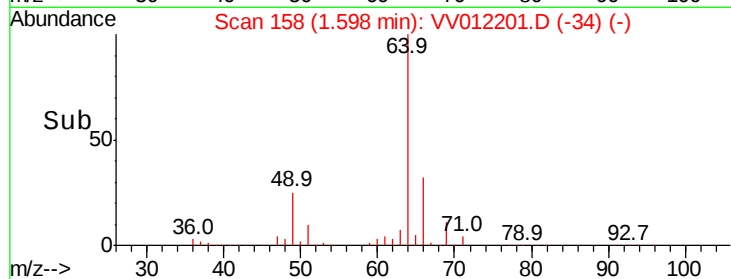
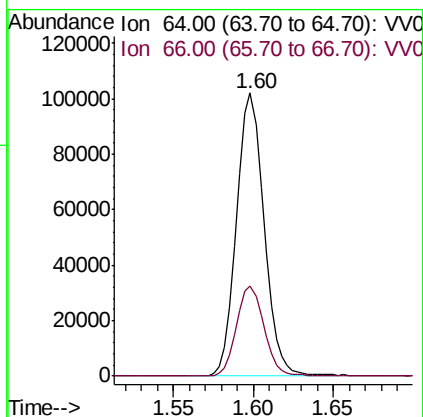
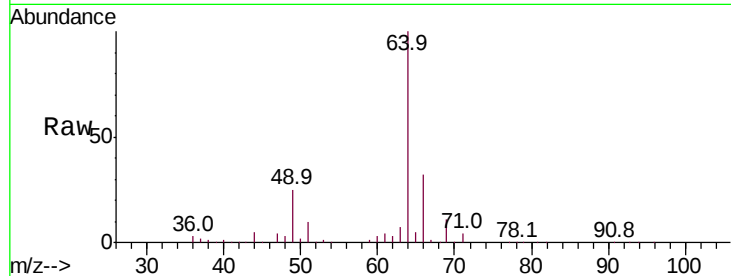




#8
Chloroethane
Concen: 73.994 ug/L
RT: 1.60 min Scan# 158
Delta R.T. 0.00 min
Lab File: VV012201.D
Acq: 12 Aug 2019 11:45

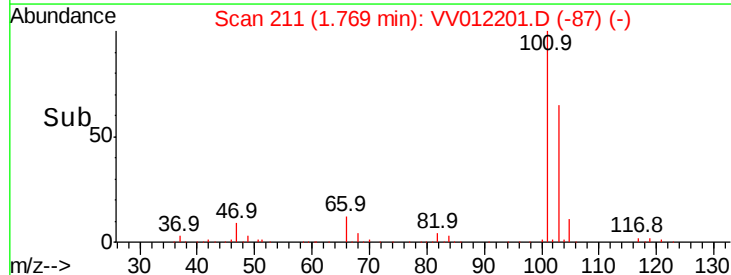
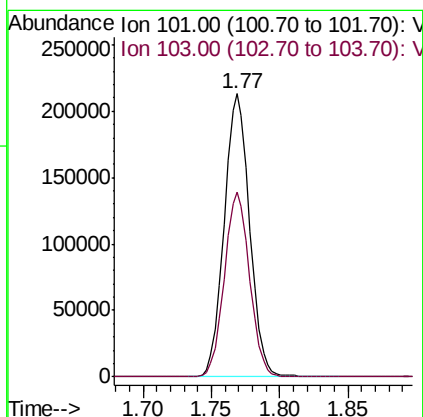
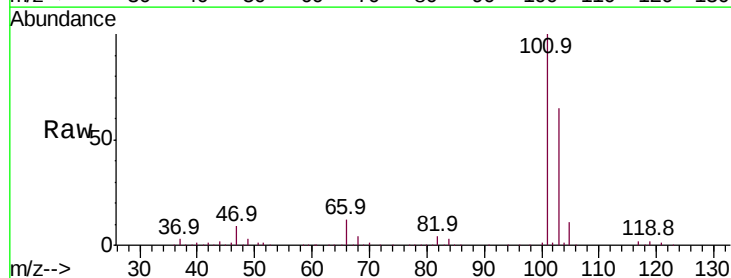
Instrument :
MSVOA_V
ClientSampleId :

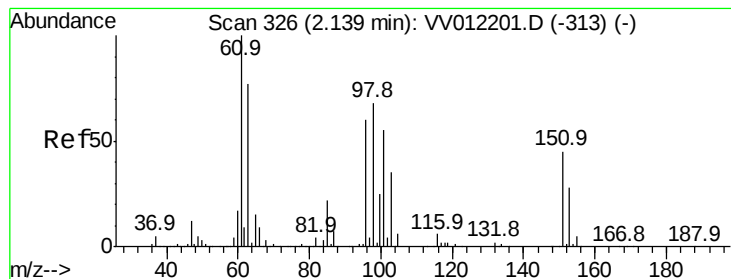
Tot Ion: 64 Resp: 118381
Ion Ratio Lower Upper
64 100
66 31.8 22.3 41.3



#9
Trichlorofluoromethane
Concen: 57.311 ug/L
RT: 1.77 min Scan# 211
Delta R.T. 0.00 min
Lab File: VV012201.D
Acq: 12 Aug 2019 11:45

Tgt Ion: 101 Resp: 275608
Ion Ratio Lower Upper
101 100
103 64.7 51.8 77.6





#10

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

Concen: 66.926 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

Instrument :
MSVOA_V
ClientSampled :

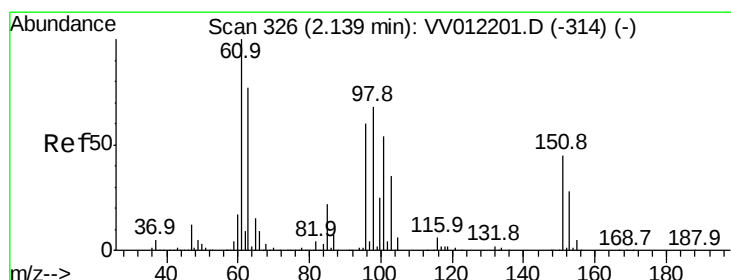
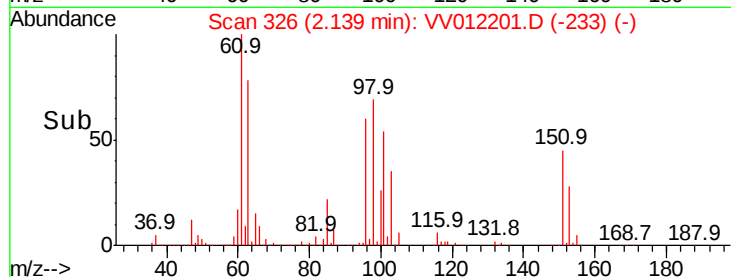
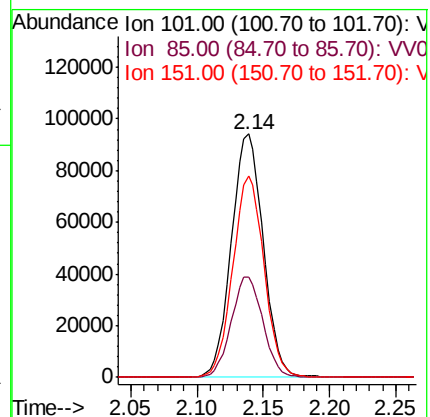
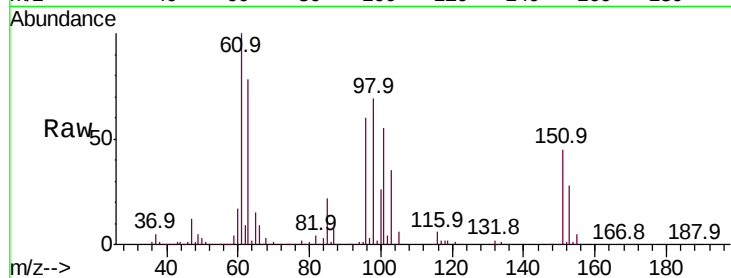
Tot Ion:101 Resp: 157478

Ion Ratio Lower Upper

101 100

85 41.0 32.8 49.2

151 81.3 65.0 97.6



#12

1,1-Dichloroethene

Concen: 67.974 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

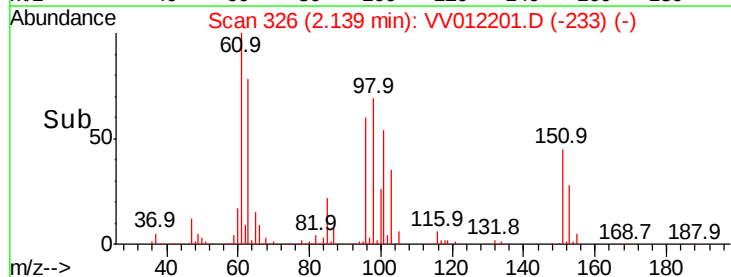
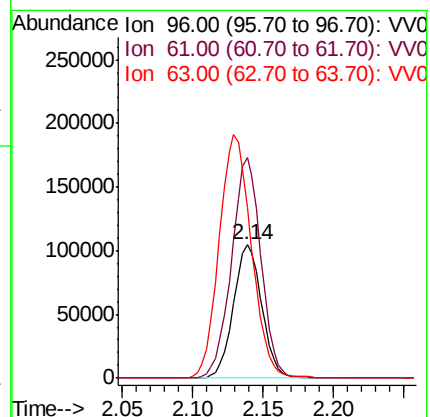
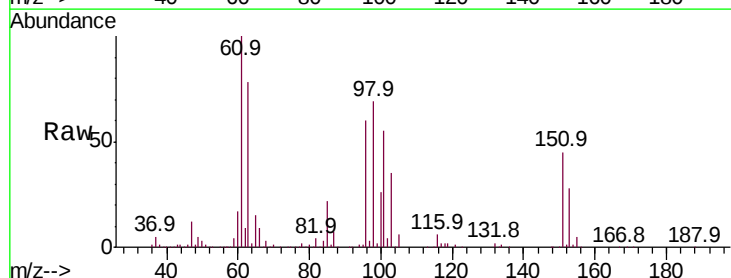
Tgt Ion: 96 Resp: 147624

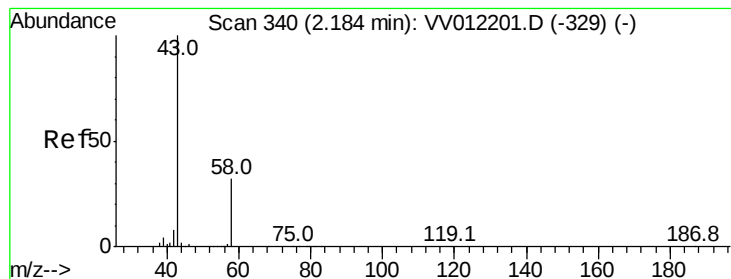
Ion Ratio Lower Upper

96 100

61 165.6 115.9 215.3

63 128.6 90.0 167.2





#13

Acetone

Concen: 151.899 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

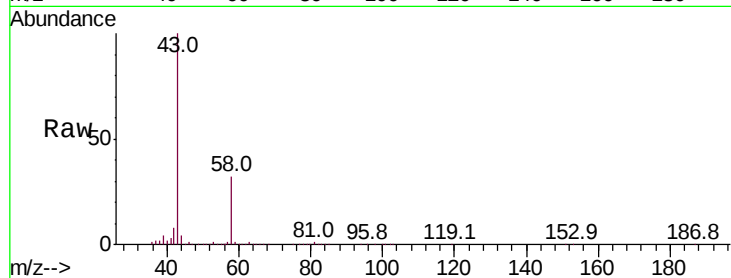
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 220536

Ion Ratio Lower Upper

43 100

58 31.6 0.0 63.2



Abundance Ion 43.00 (42.70 to 43.70): VV012201.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV012201.D (-329) (-)

2.18

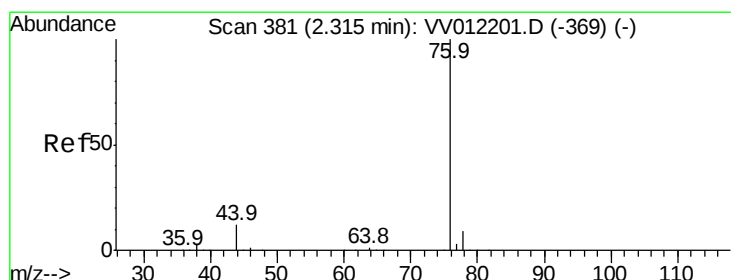
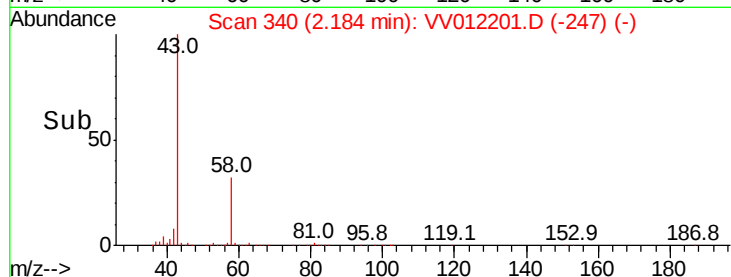
150000

100000

50000

0

Time--> 2.10 2.15 2.20 2.25 2.30



#14

Carbon disulfide

Concen: 61.176 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012201.D

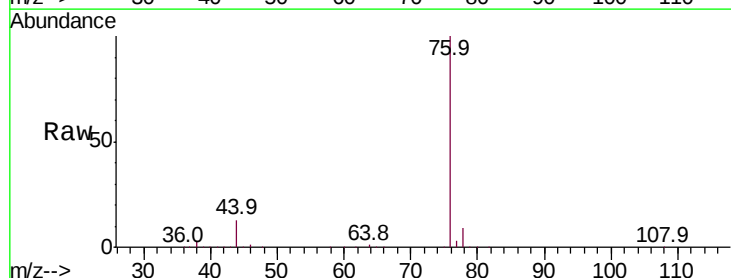
Acq: 12 Aug 2019 11:45

Tgt Ion: 76 Resp: 464413

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV012201.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV012201.D (-369) (-)

2.32

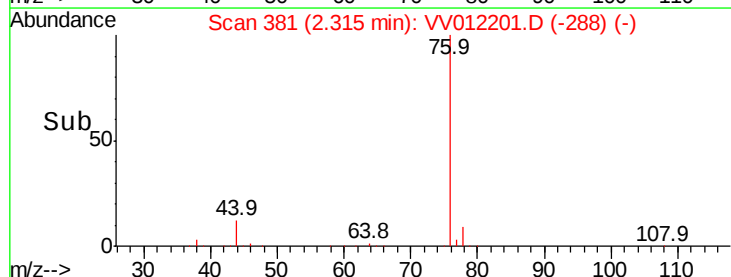
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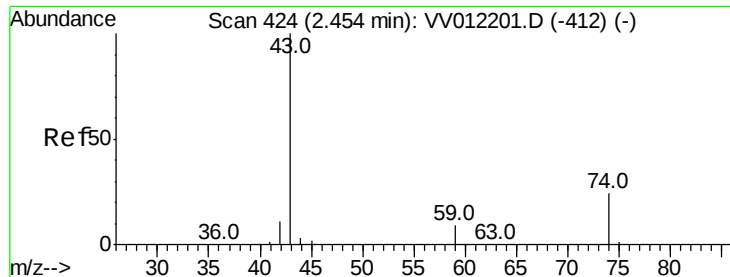
200000

100000

0

Time--> 2.30 2.40

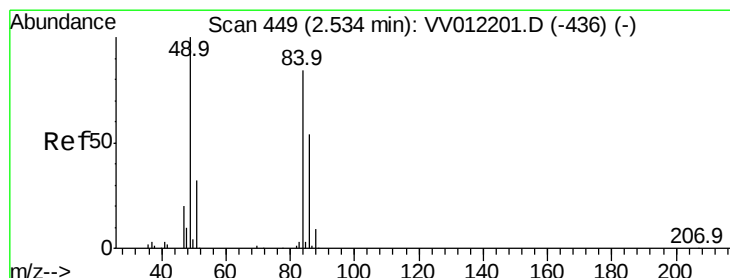
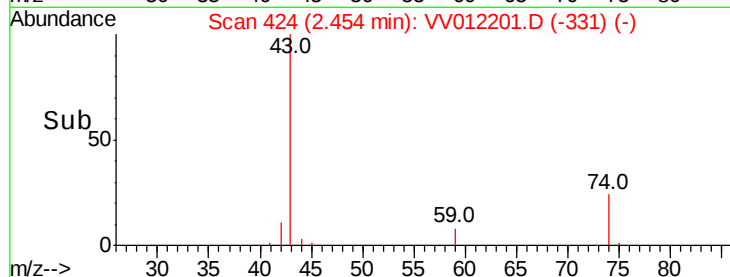
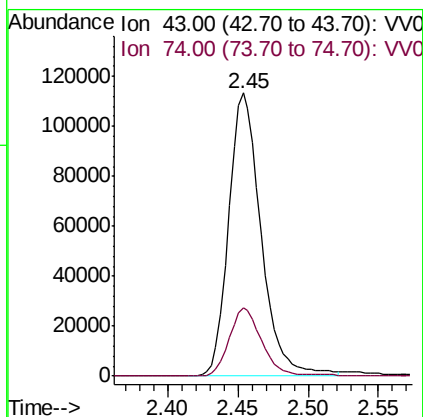
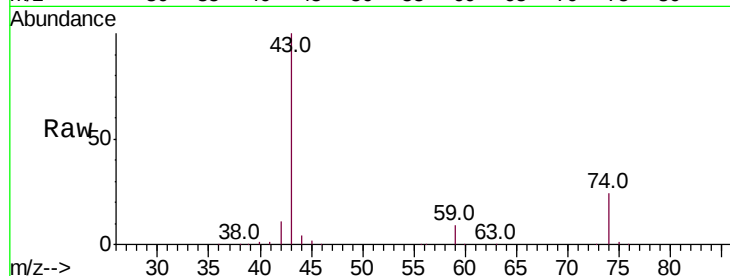




#15
Methvl Acetate
Concen: 63.855 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.00 min
Lab File: VV012201.D
Acq: 12 Aug 2019 11:45

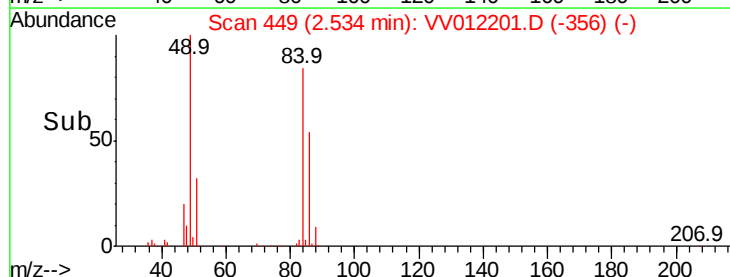
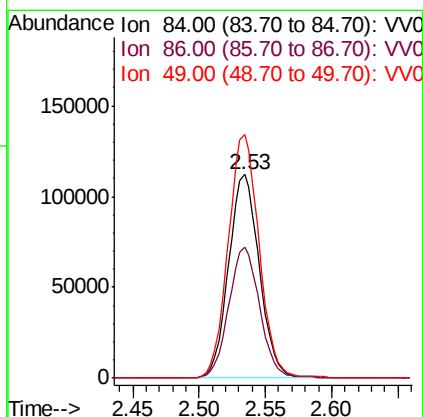
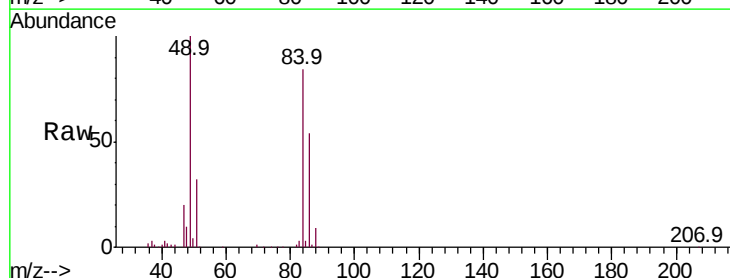
Instrument :
MSVOA_V
ClientSampled :

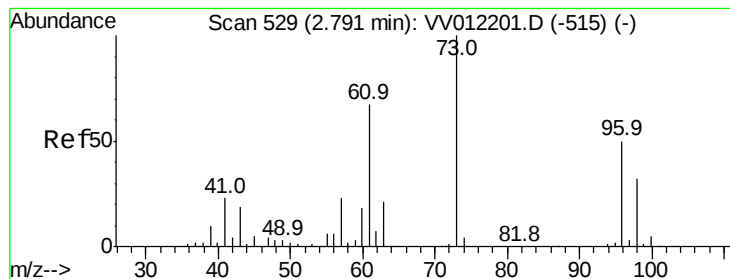
Tot Ion: 43 Resp: 180874
Ion Ratio Lower Upper
43 100
74 24.2 19.4 29.0



#16
Methylene chloride
Concen: 57.097 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV012201.D
Acq: 12 Aug 2019 11:45

Tgt Ion: 84 Resp: 180950
Ion Ratio Lower Upper
84 100
86 64.2 44.9 83.5
49 119.6 83.7 155.5





#17

trans-1,2-Dichloroethene

Concen: 56.949 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

Instrument :
MSVOA_V
ClientSampleId :

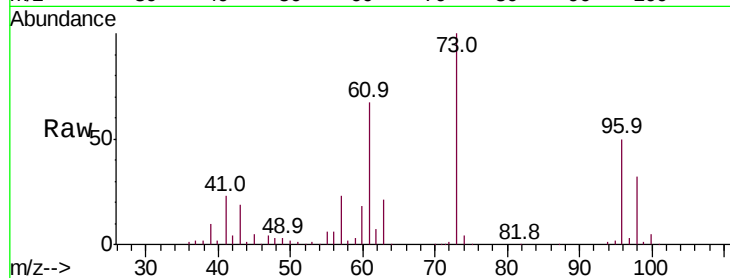
Tot Ion: 96 Resp: 170684

Ion Ratio Lower Upper

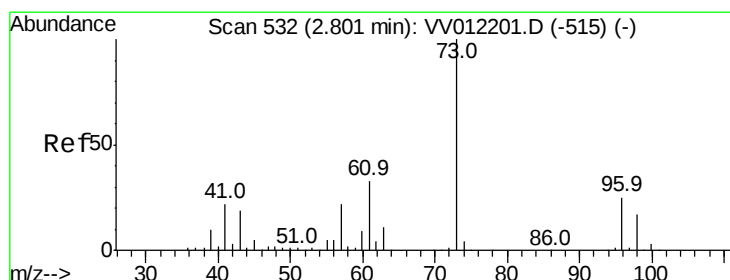
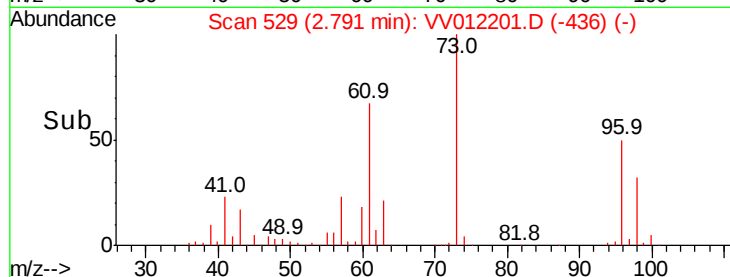
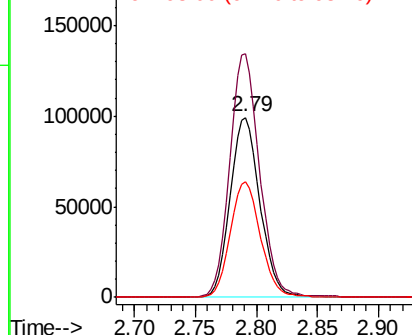
96 100

61 135.5 94.8 176.2

98 64.2 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: 54.201 ug/L

RT: 2.80 min Scan# 532

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

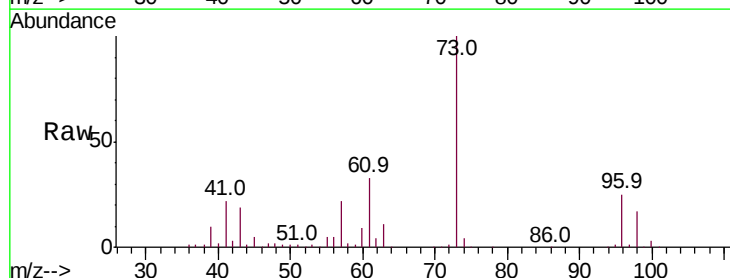
Tgt Ion: 73 Resp: 514634

Ion Ratio Lower Upper

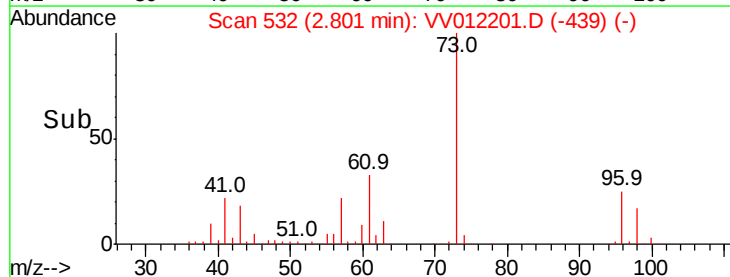
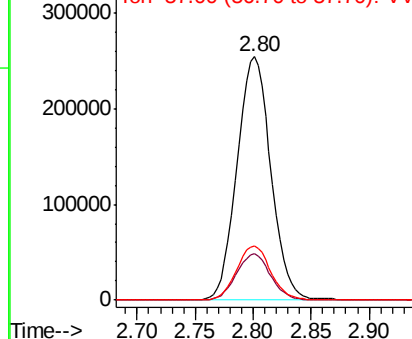
73 100

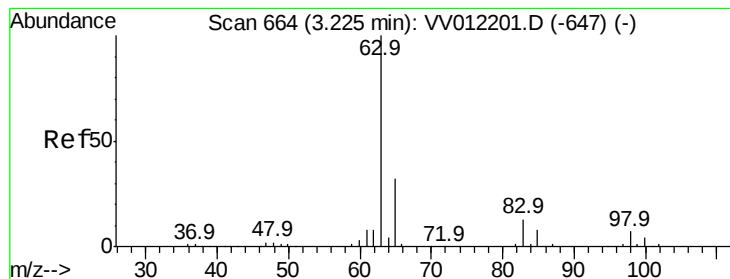
43 18.9 15.1 22.7

57 22.5 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: 59.344 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

Instrument :

MSVOA_V

ClientSampleId :

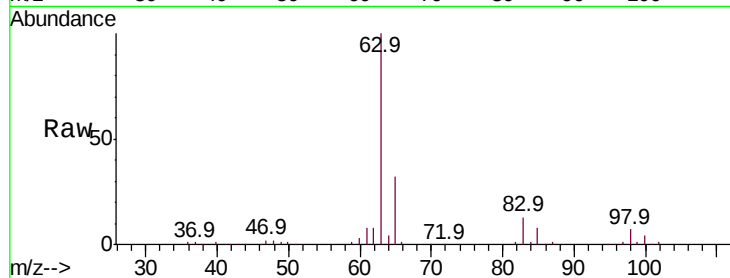
Tot Ion: 63 Resp: 316658

Ion Ratio Lower Upper

63 100

65 31.5 22.0 41.0

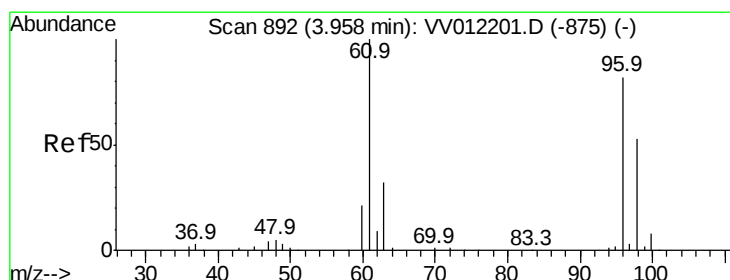
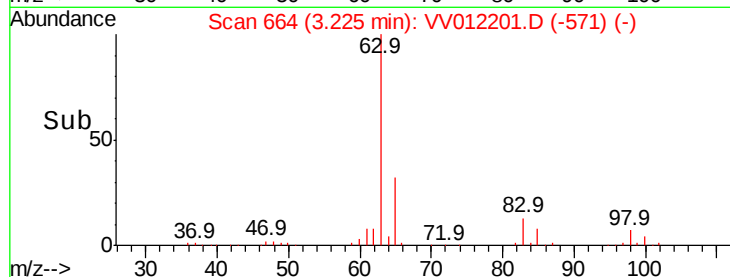
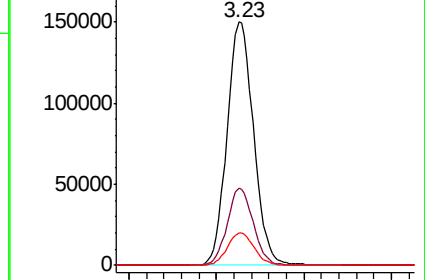
83 13.1 9.2 17.0



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: 55.812 ug/L

RT: 3.96 min Scan# 892

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

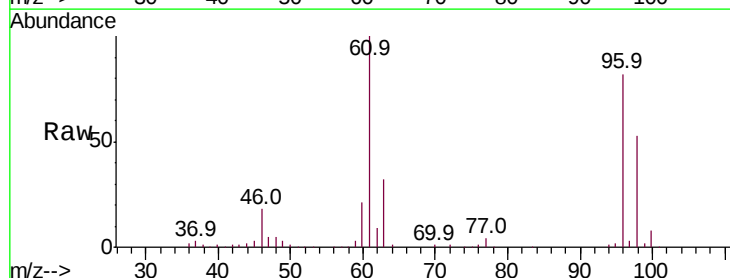
Tgt Ion: 96 Resp: 189133

Ion Ratio Lower Upper

96 100

61 122.5 85.8 159.3

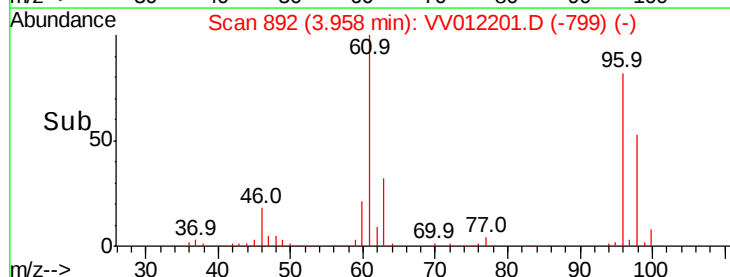
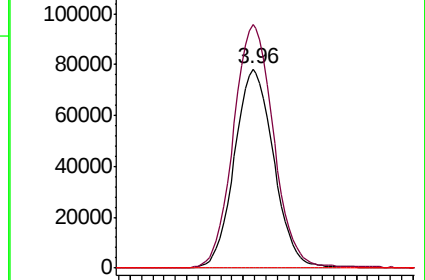
68 0.0 0.0 0.0

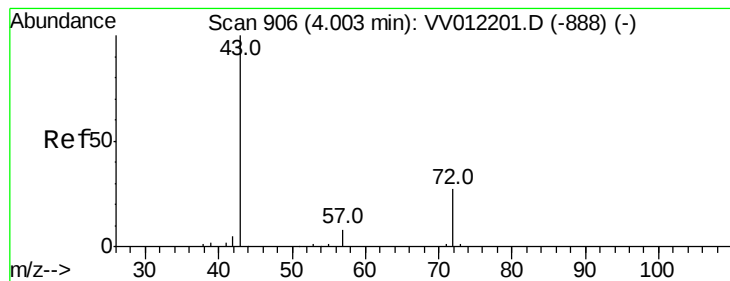


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 136.756 ug/L

RT: 4.00 min Scan# 906

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

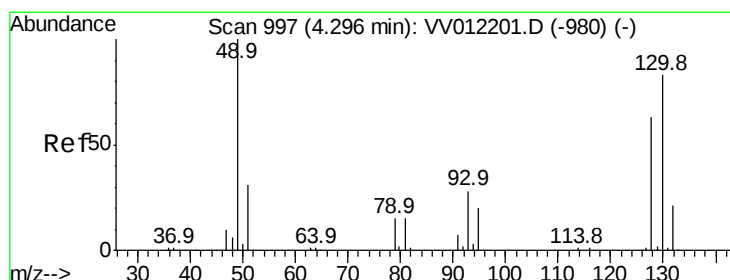
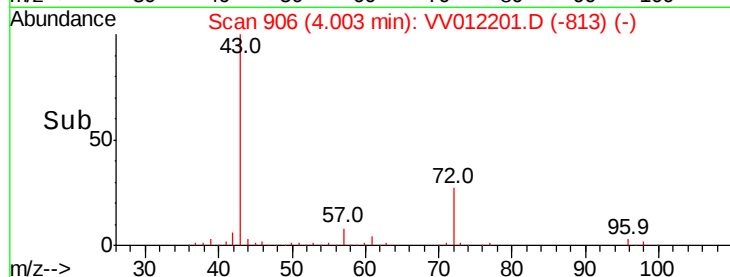
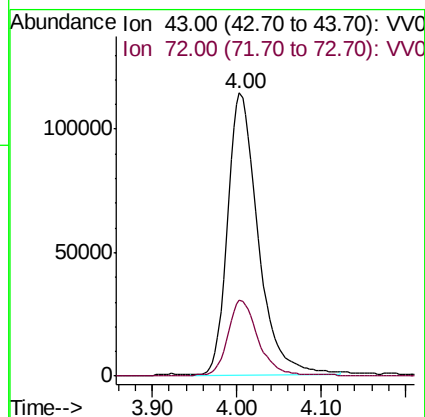
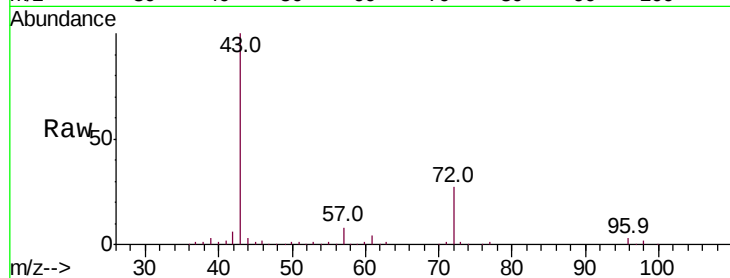
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 287885

Ion Ratio Lower Upper

43 100

72 26.9 13.5 40.4



#23

Bromochloromethane

Concen: 52.687 ug/L

RT: 4.30 min Scan# 997

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

Tgt Ion:128 Resp: 96547

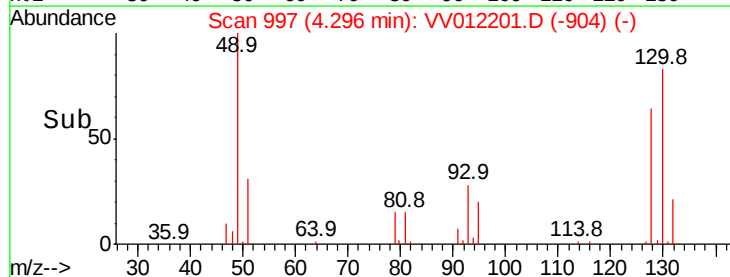
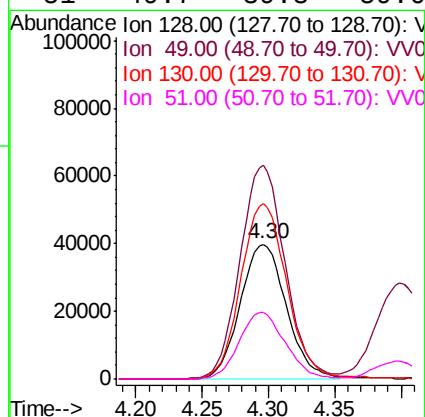
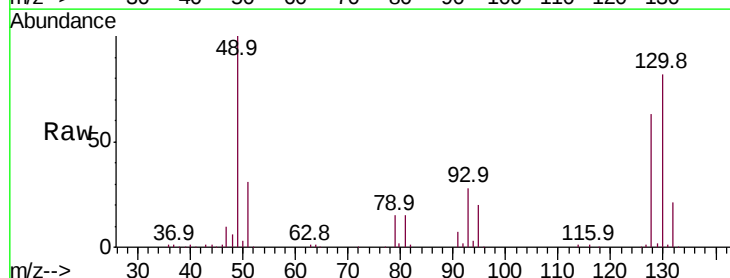
Ion Ratio Lower Upper

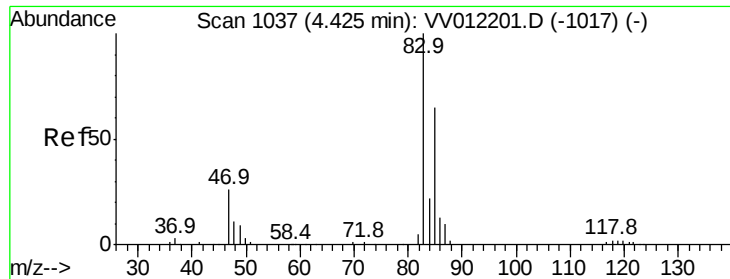
128 100

49 158.6 111.0 206.2

130 130.5 91.3 169.6

51 49.7 39.8 59.6

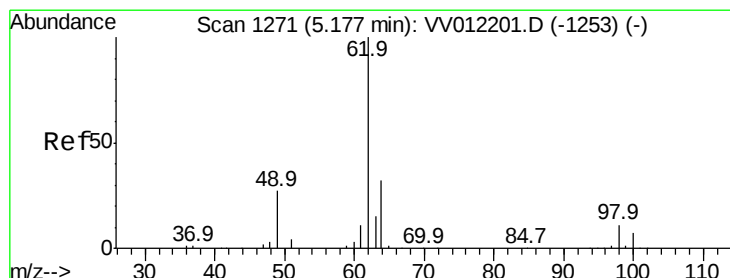
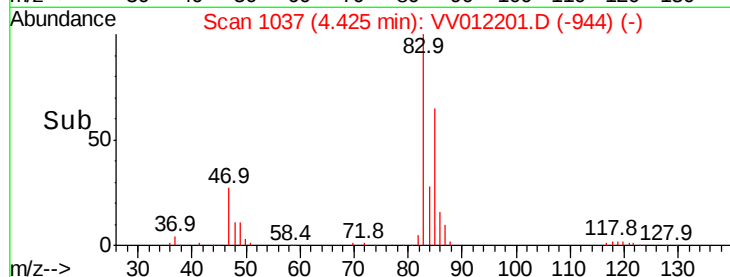
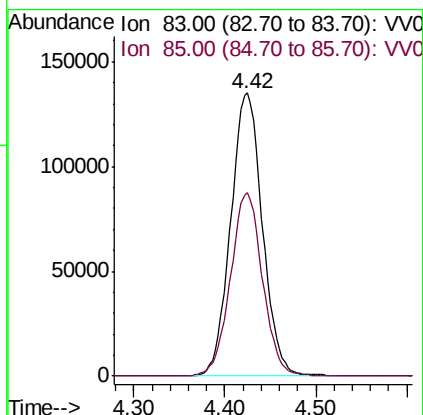
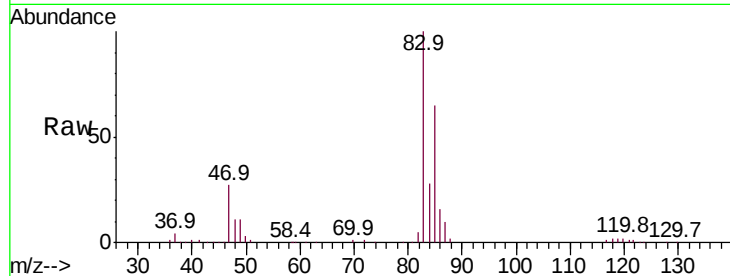




#25
Chloroform
Concen: 55.517 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV012201.D
Acq: 12 Aug 2019 11:45

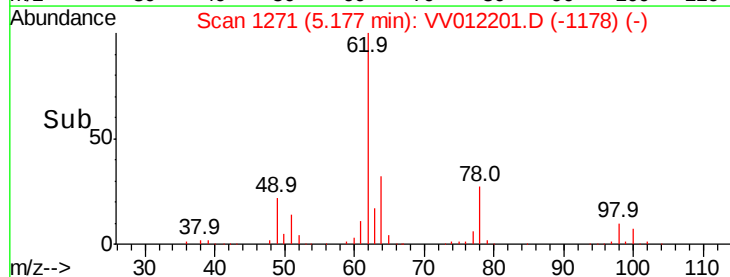
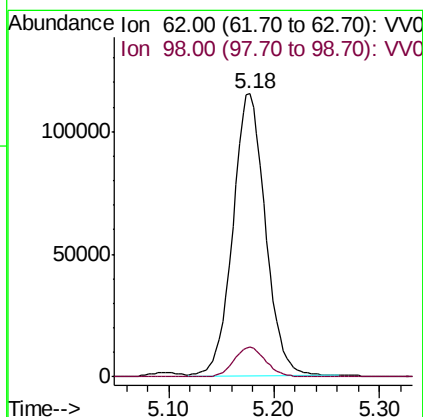
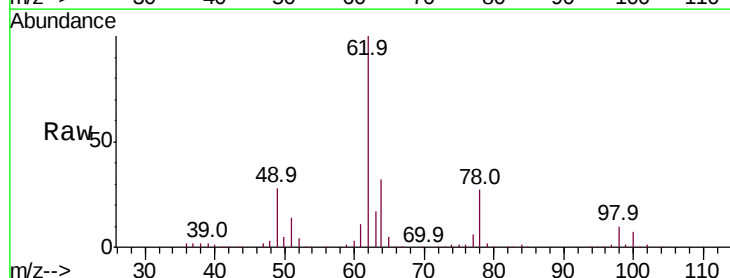
Instrument :
MSVOA_V
ClientSampleId :

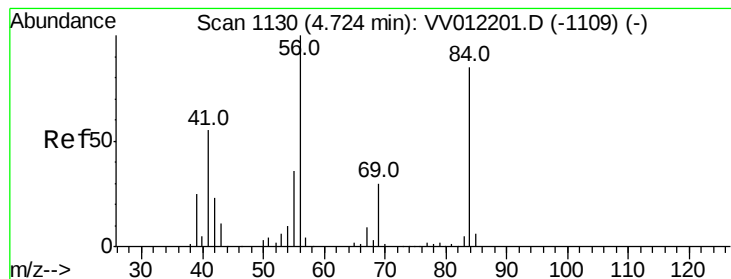
Tot Ion: 83 Resp: 327531
Ion Ratio Lower Upper
83 100
85 64.8 45.4 84.2



#27
1,2-Dichloroethane
Concen: 53.836 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV012201.D
Acq: 12 Aug 2019 11:45

Tgt Ion: 62 Resp: 246928
Ion Ratio Lower Upper
62 100
98 10.5 8.4 12.6





#29

Cyclohexane

Concen: 63.010 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

Instrument :
MSVOA_V
ClientSampleId :

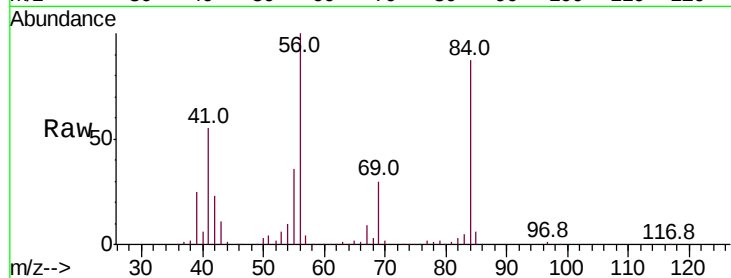
Tot Ion: 56 Resp: 294937

Ion Ratio Lower Upper

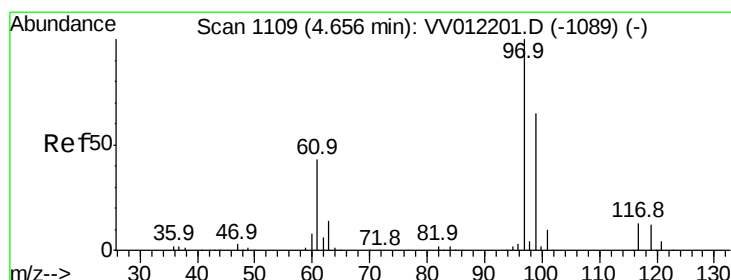
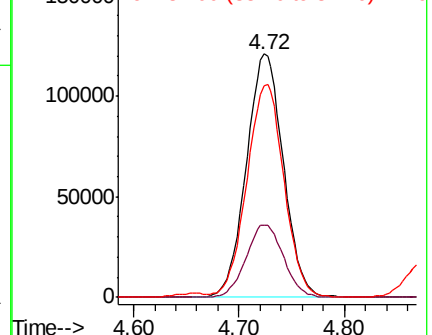
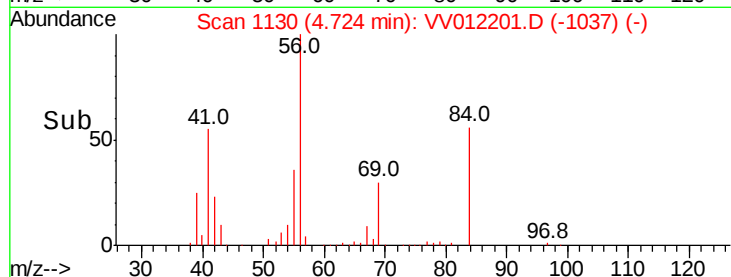
56 100

69 30.1 24.1 36.1

84 87.9 70.3 105.5



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



#30

1,1,1-Trichloroethane

Concen: 50.710 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

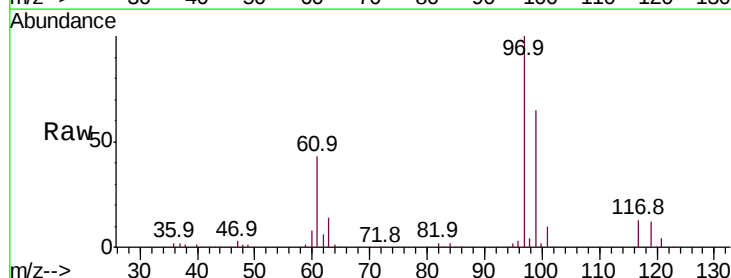
Tgt Ion: 97 Resp: 279250

Ion Ratio Lower Upper

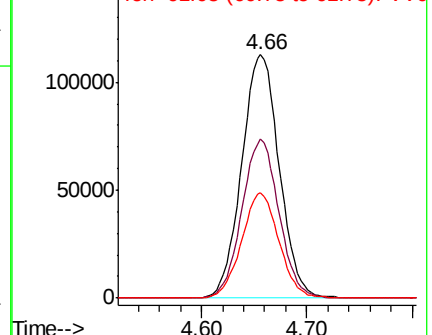
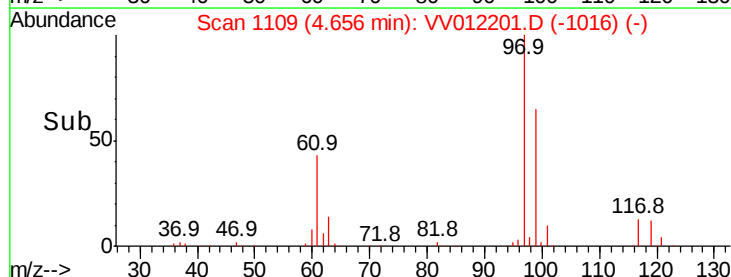
97 100

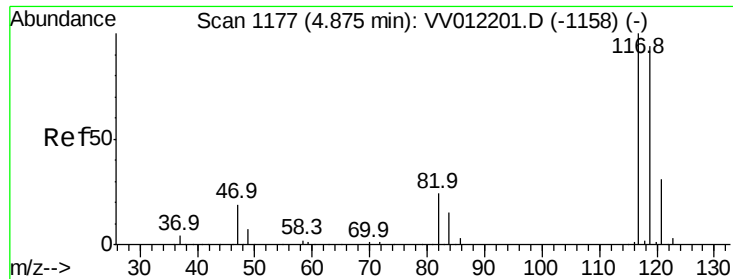
99 64.3 51.4 77.2

61 43.0 34.4 51.6



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





#31

Carbon tetrachloride

Concen: 49.800 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

Instrument :

MSVOA_V

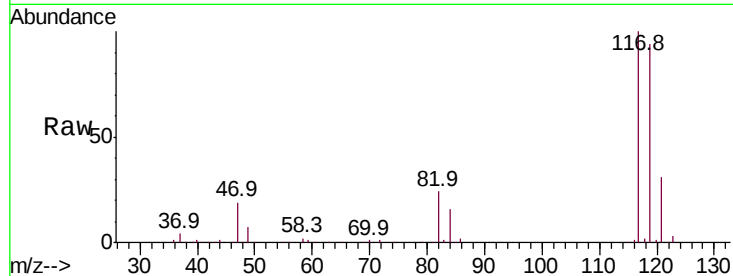
ClientSampled :

Tot Ion:117 Resp: 254540

Ion Ratio Lower Upper

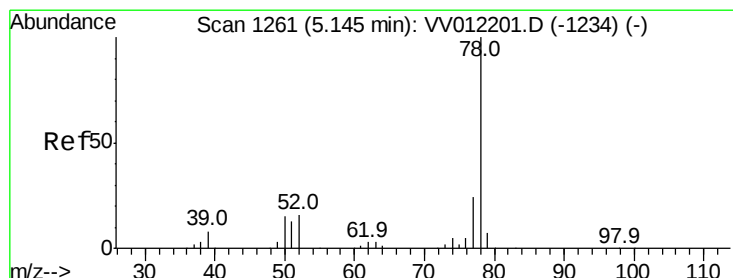
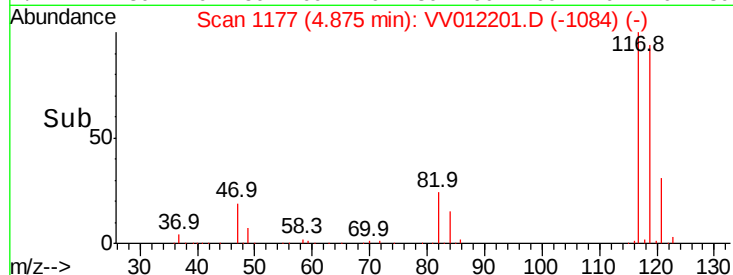
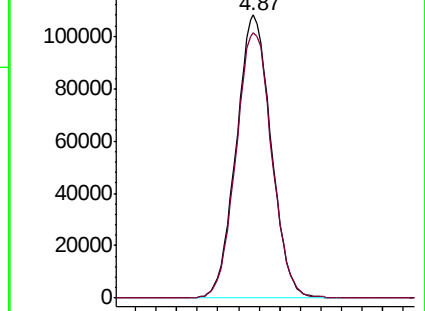
117 100

119 96.4 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 57.955 ug/L

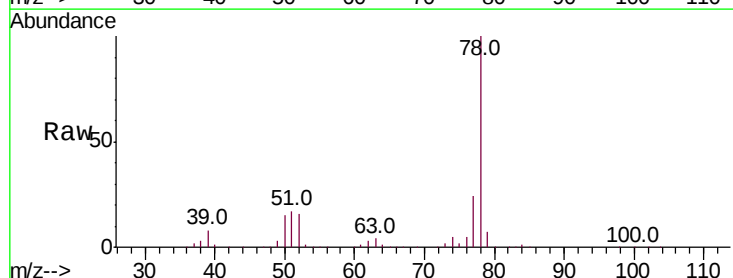
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

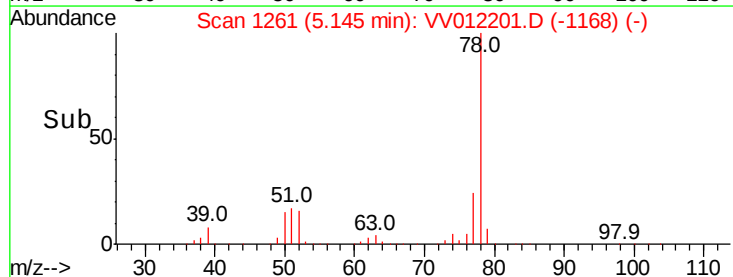
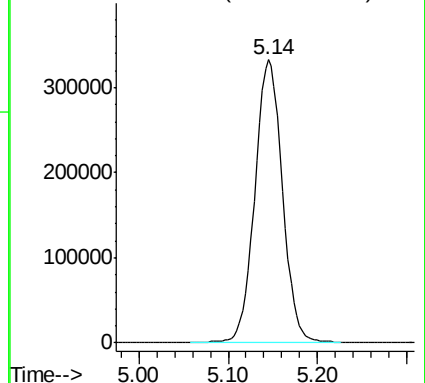
Lab File: VV012201.D

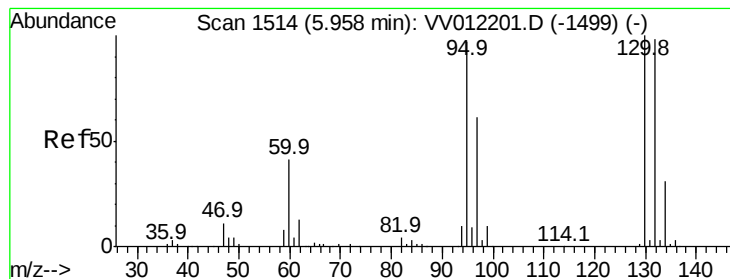
Acq: 12 Aug 2019 11:45

Tgt Ion: 78 Resp: 716127



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 54.991 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 95 Resp: 182826

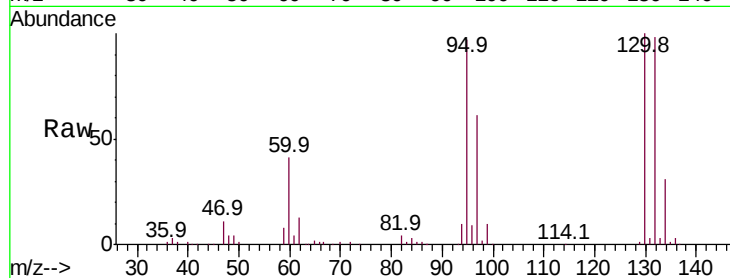
Ion Ratio Lower Upper

95 100

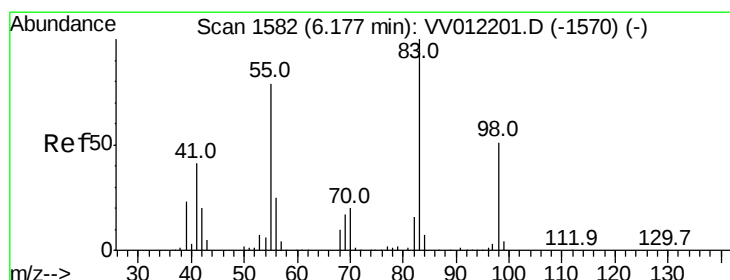
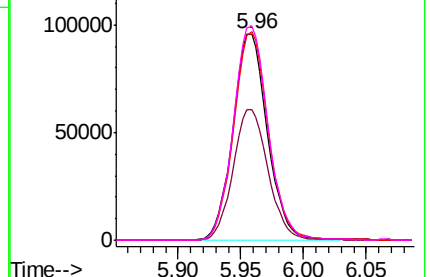
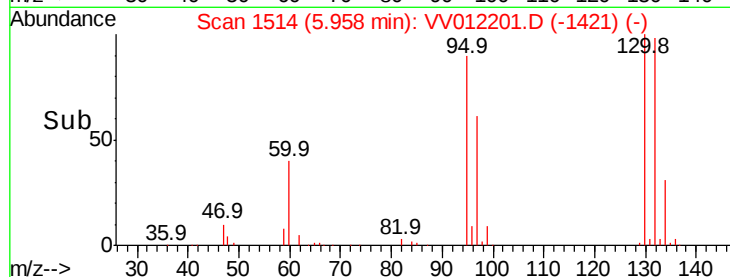
97 63.3 44.3 82.3

132 101.0 70.7 131.3

130 103.3 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: 59.462 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

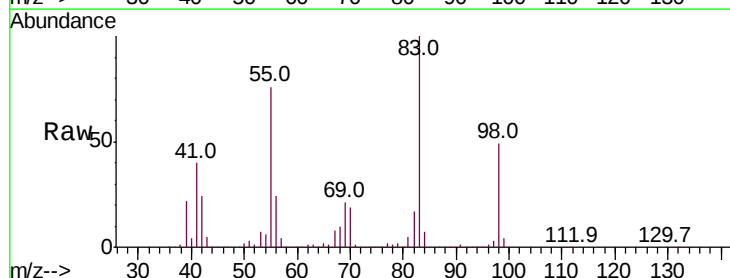
Tgt Ion: 83 Resp: 316005

Ion Ratio Lower Upper

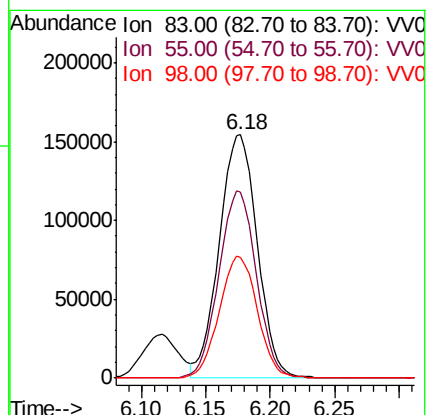
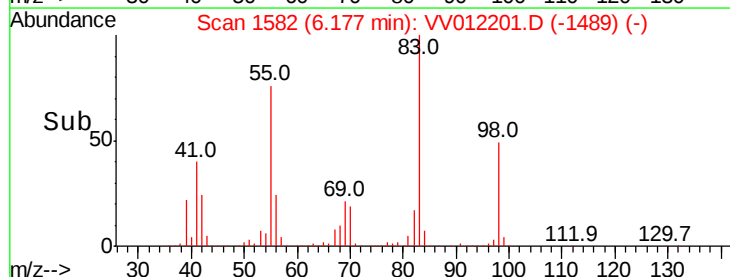
83 100

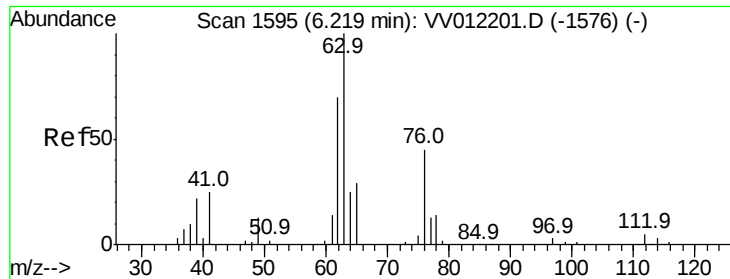
55 75.9 60.7 91.1

98 50.1 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

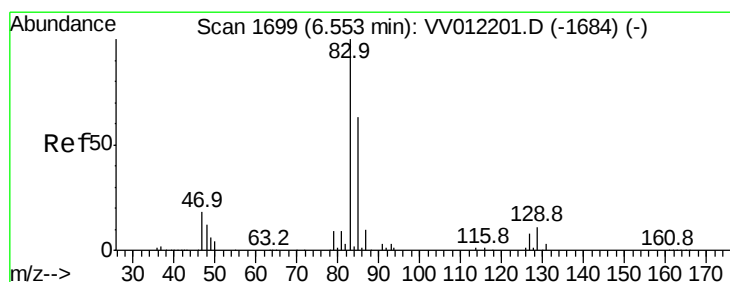
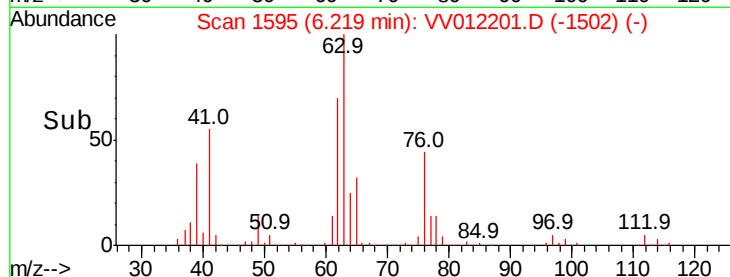
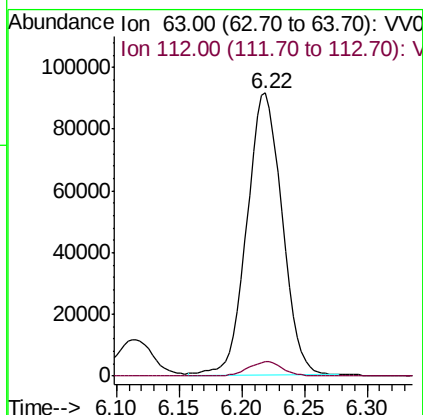
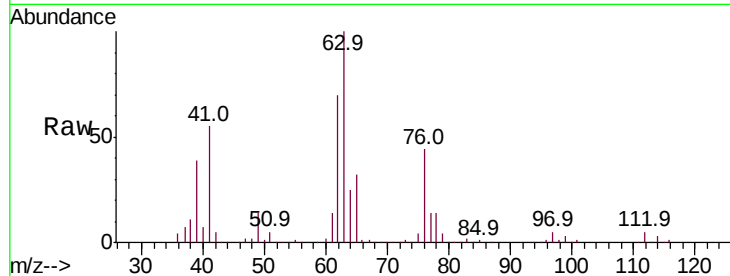




#37
 1,2-Dichloropropane
 Concen: 59.626 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV012201.D
 Acq: 12 Aug 2019 11:45

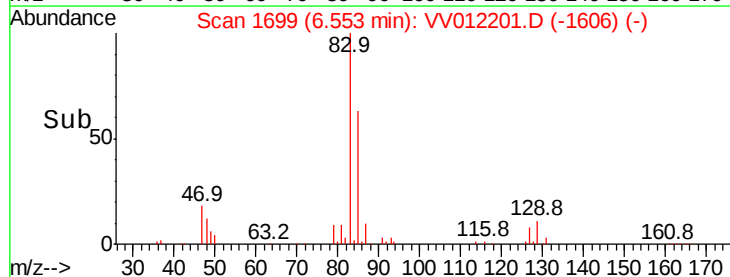
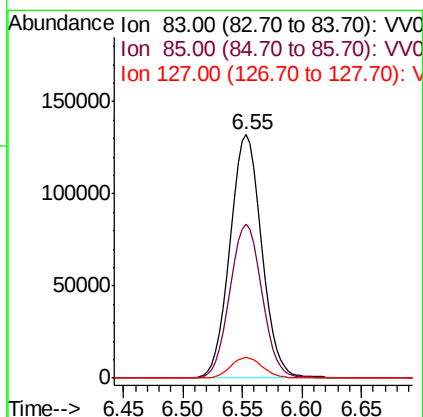
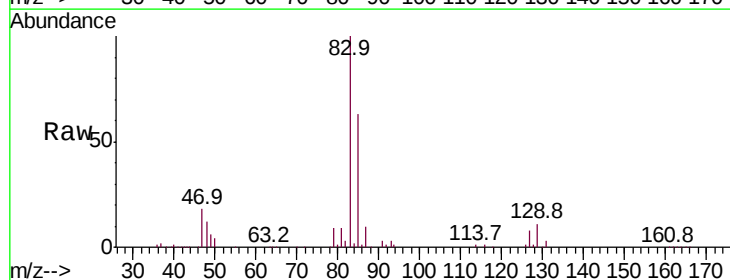
Instrument :
 MSVOA_V
 ClientSampleId :

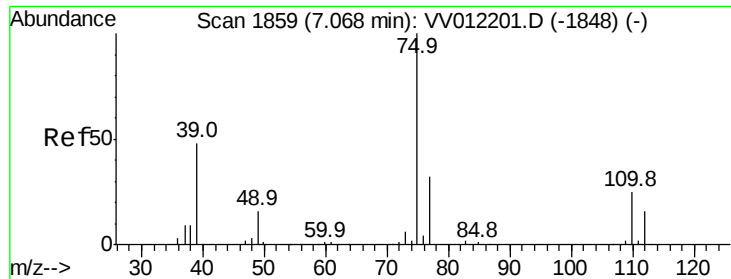
Tot Ion: 63 Resp: 178796
 Ion Ratio Lower Upper
 63 100
 112 5.0 4.0 6.0



#38
 Bromodichloromethane
 Concen: 53.981 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV012201.D
 Acq: 12 Aug 2019 11:45

Tgt Ion: 83 Resp: 244662
 Ion Ratio Lower Upper
 83 100
 85 63.1 44.2 82.0
 127 8.4 6.7 10.1

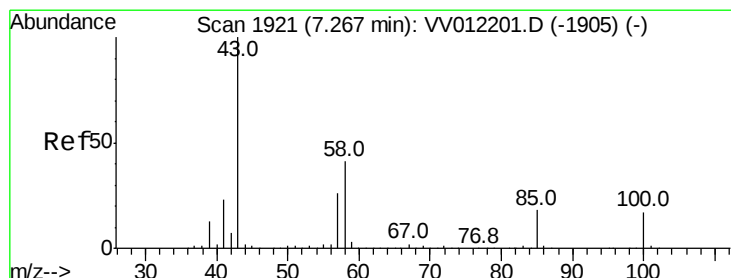
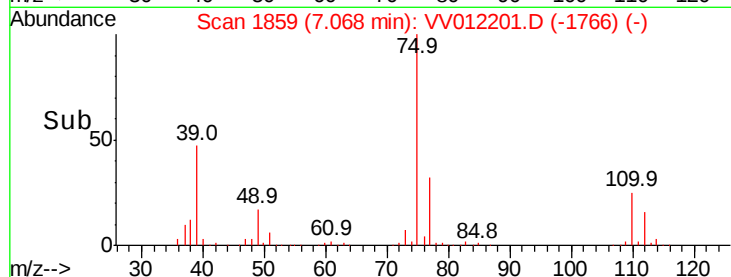
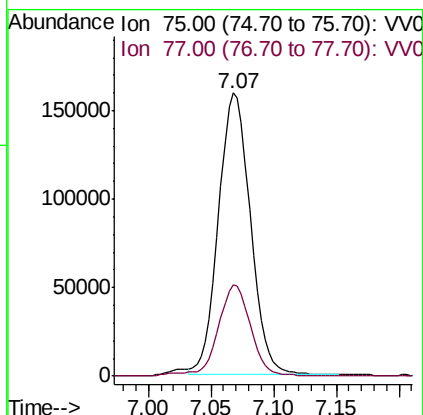
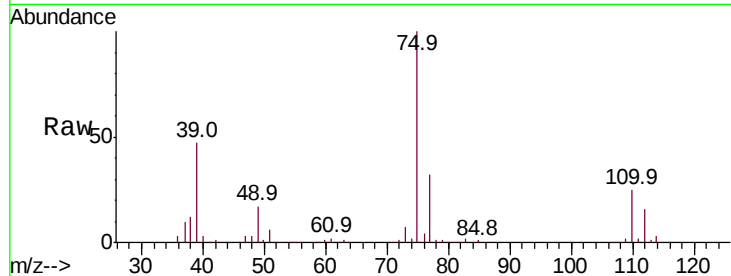




#39
 cis-1,3-Dichloropropene
 Concen: 55.977 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV012201.D
 Acq: 12 Aug 2019 11:45

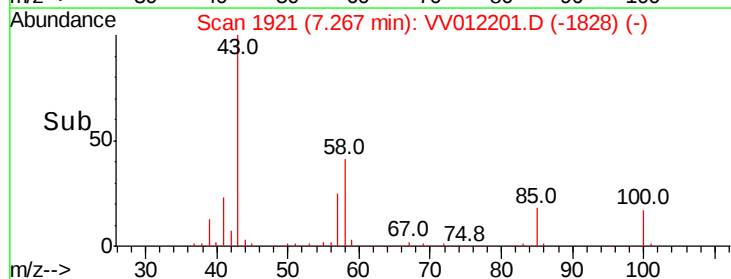
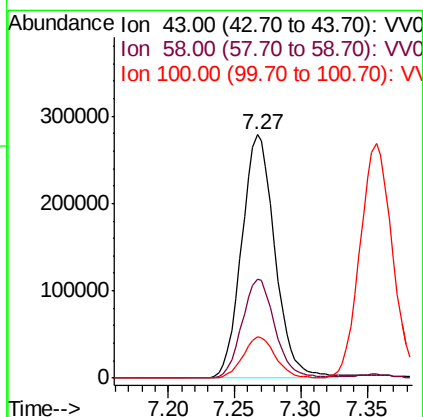
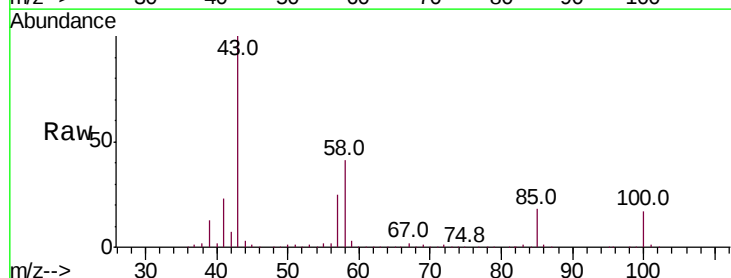
Instrument :
 MSVOA_V
 ClientSampleId :

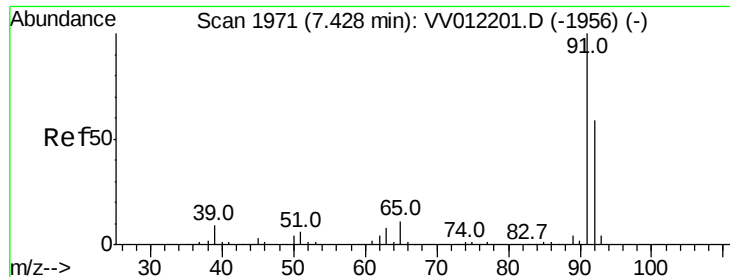
Tot Ion: 75 Resp: 283212
 Ion Ratio Lower Upper
 75 100
 77 32.3 22.6 42.0



#40
 4-Methyl-2-pentanone
 Concen: 124.776 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VV012201.D
 Acq: 12 Aug 2019 11:45

Tgt Ion: 43 Resp: 486111
 Ion Ratio Lower Upper
 43 100
 58 40.4 32.3 48.5
 100 16.5 13.2 19.8





#42

Toluene

Concen: 57.178 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

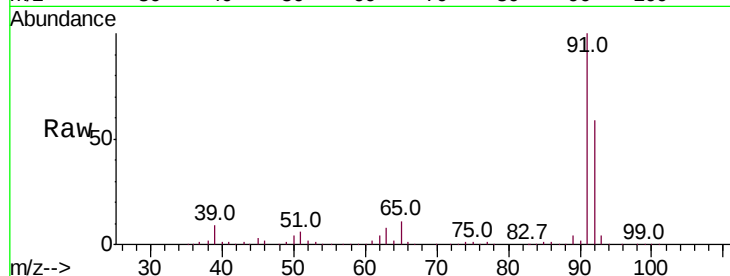
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 777477

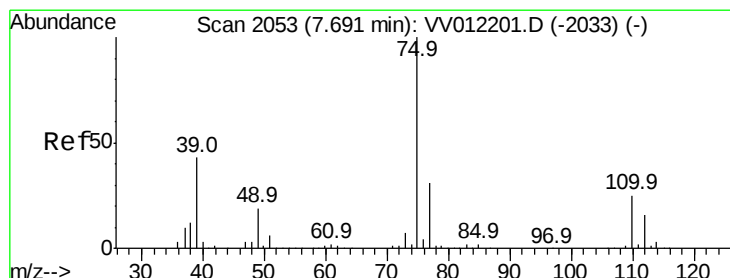
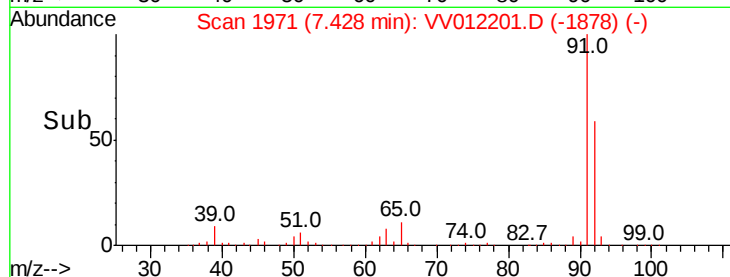
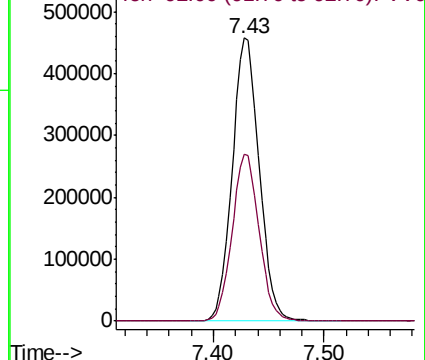
Ion Ratio Lower Upper

91 100

92 59.1 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: 57.240 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV012201.D

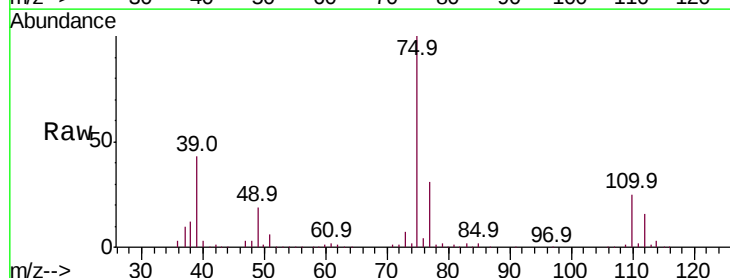
Acq: 12 Aug 2019 11:45

Tgt Ion: 75 Resp: 262788

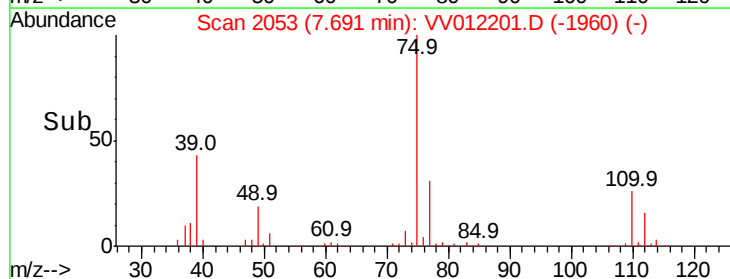
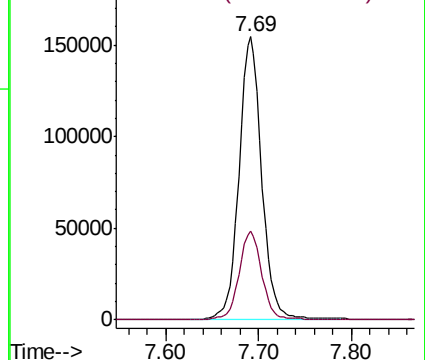
Ion Ratio Lower Upper

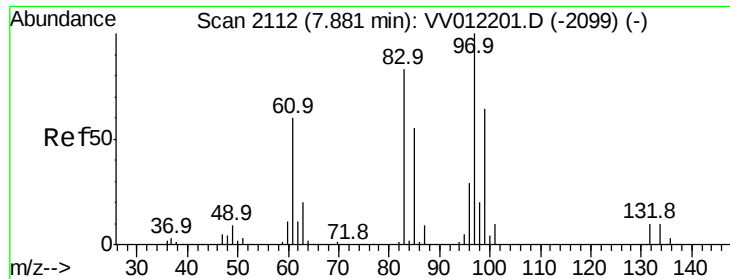
75 100

77 31.4 22.0 40.8



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

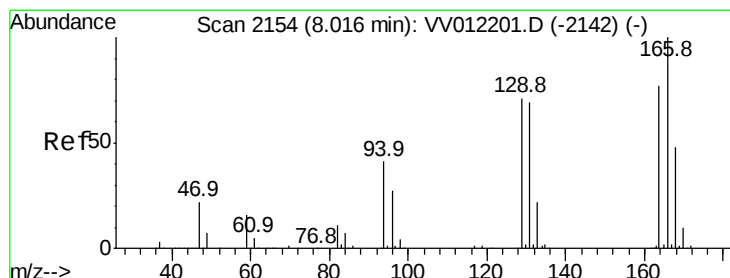
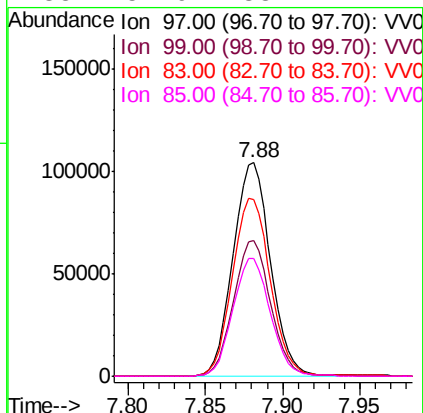
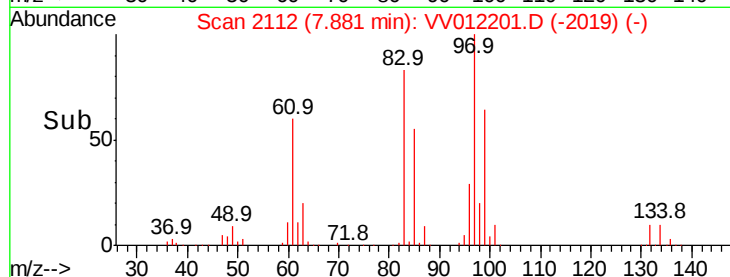
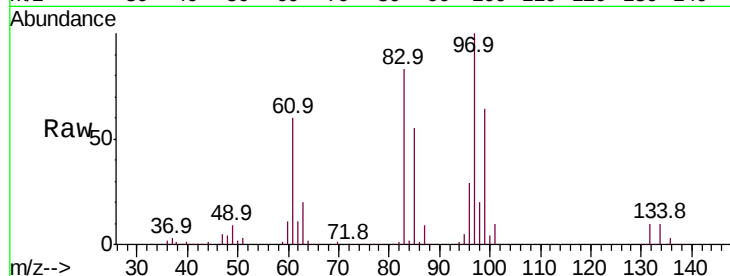




#45
 1,1,2-Trichloroethane
 Concen: 54.356 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV012201.D
 Acq: 12 Aug 2019 11:45

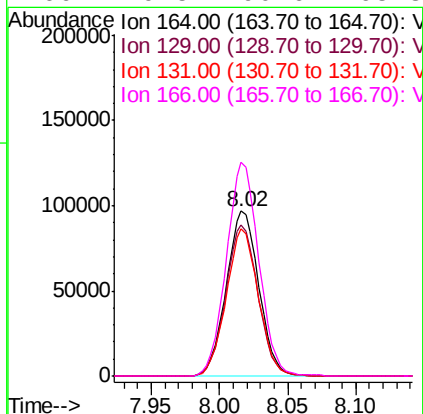
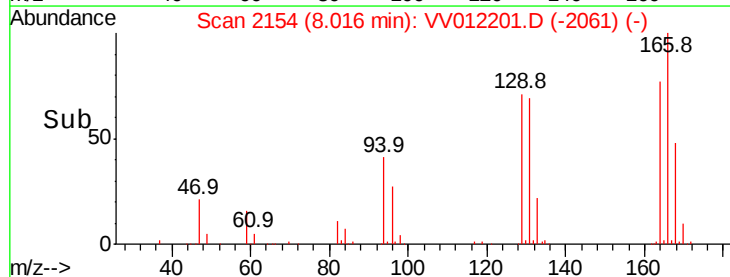
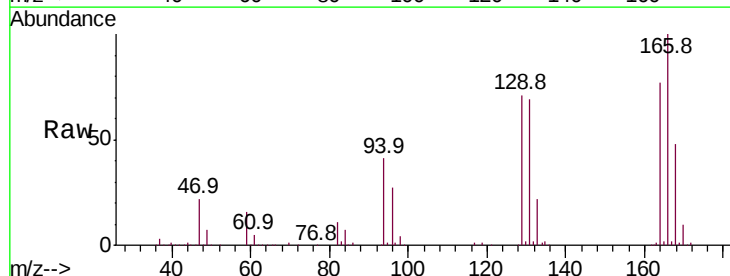
Instrument :
 MSVOA_V
 ClientSampleId :

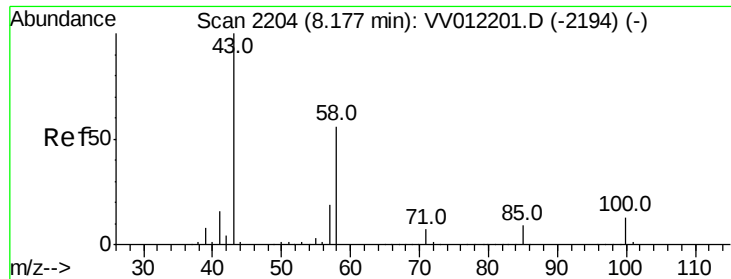
Tot Ion:	97	Resp:	176022
Ion	Ratio	Lower	Upper
97	100		
99	63.6	44.5	82.7
83	82.6	57.8	107.4
85	54.9	38.4	71.4



#46
 Tetrachloroethene
 Concen: 51.139 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV012201.D
 Acq: 12 Aug 2019 11:45

Tgt Ion:	164	Resp:	160138
Ion	Ratio	Lower	Upper
164	100		
129	91.6	64.1	119.1
131	89.1	62.4	115.8
166	129.5	90.6	168.3

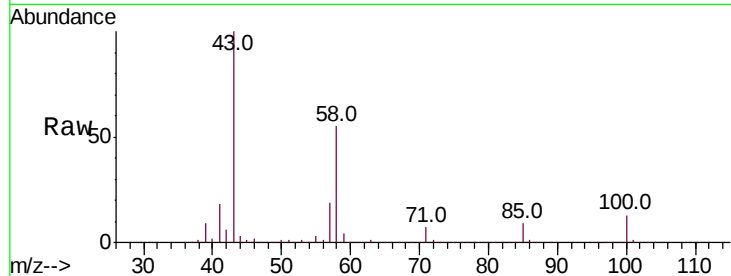




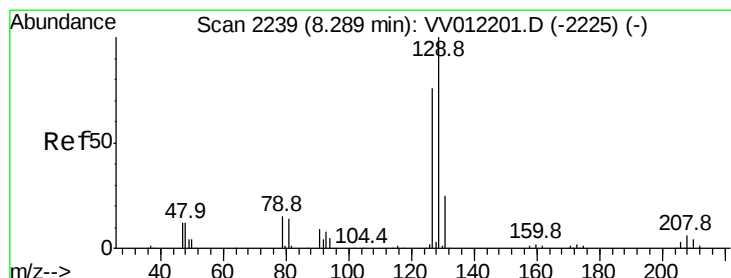
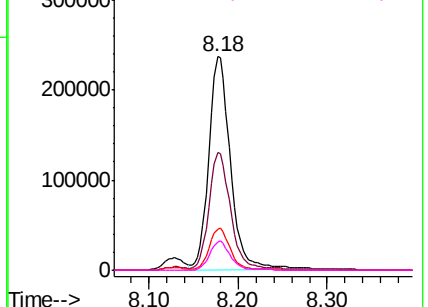
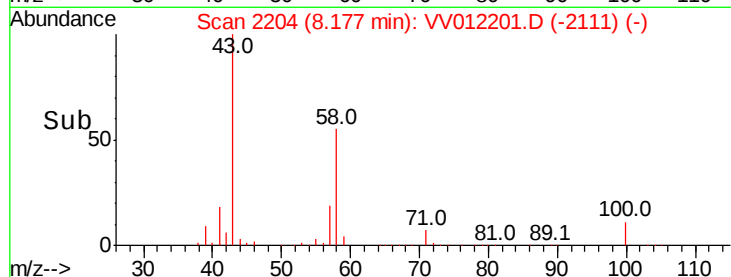
#48
2-Hexanone
Concen: 132.895 ug/L
RT: 8.18 min Scan# 2204
Delta R.T. 0.00 min
Lab File: VV012201.D
Acq: 12 Aug 2019 11:45

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 398566
Ion Ratio Lower Upper
43 100
58 54.4 43.5 65.3
57 18.9 15.1 22.7
100 13.0 10.4 15.6

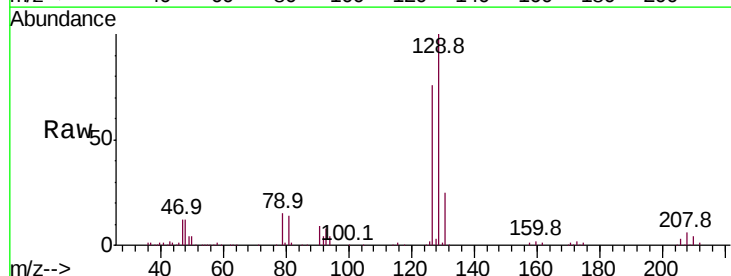


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

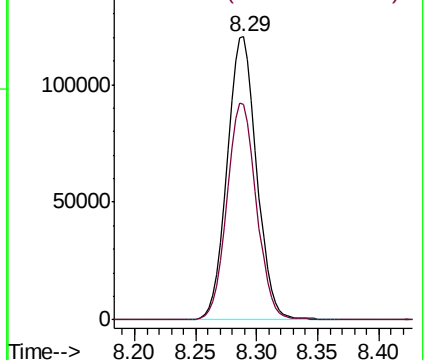
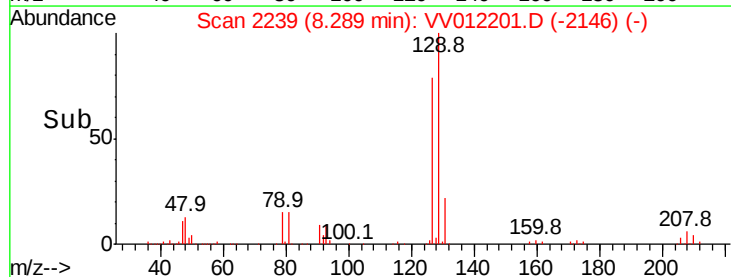


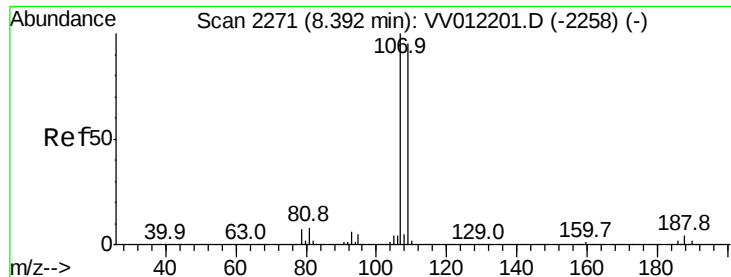
#49
Dibromochloromethane
Concen: 50.816 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV012201.D
Acq: 12 Aug 2019 11:45

Tgt Ion: 129 Resp: 204370
Ion Ratio Lower Upper
129 100
127 76.1 53.3 98.9



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

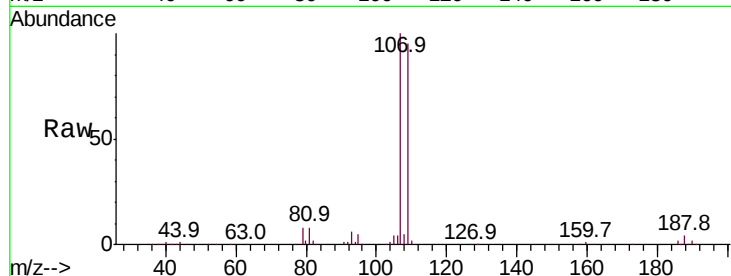




#50
1,2-Dibromoethane
Concen: 53.731 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV012201.D
Acq: 12 Aug 2019 11:45

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.9	66.4	123.4
188	3.8	3.0	4.6

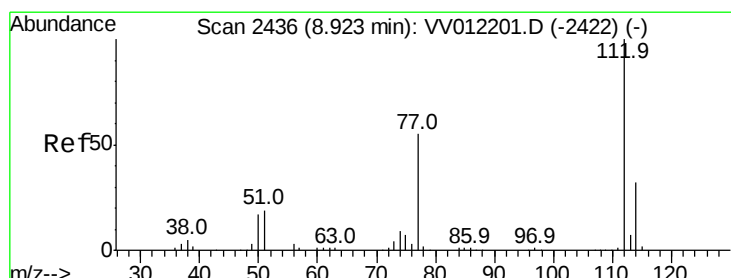
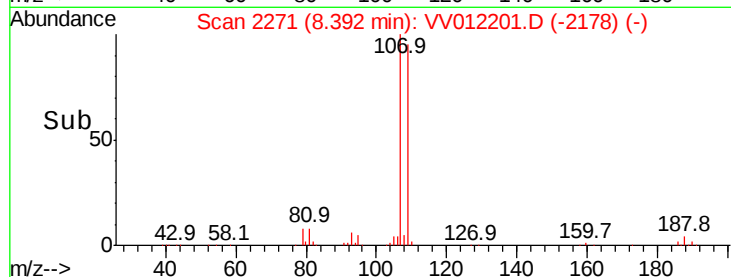
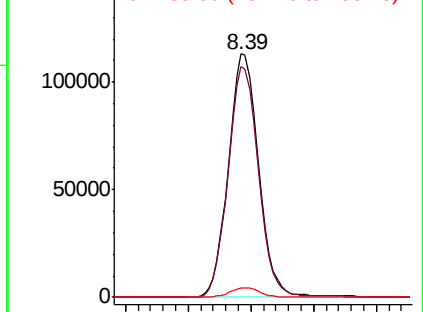


Abundance

Ion 107.00 (106.70 to 107.70): V

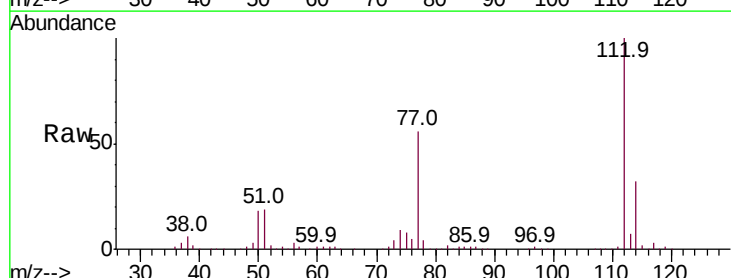
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
Chlorobenzene
Concen: 54.398 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV012201.D
Acq: 12 Aug 2019 11:45

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.5	41.9
77	55.5	44.4	66.6

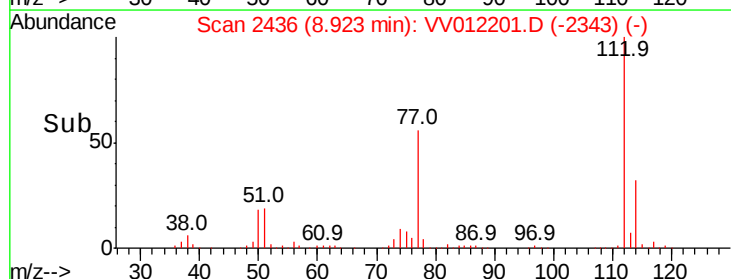
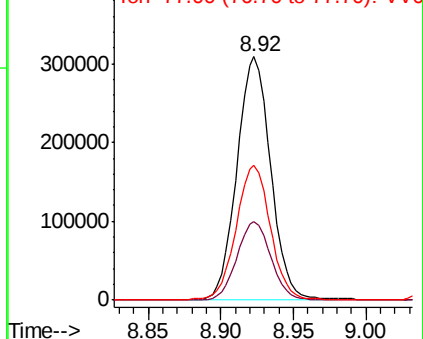


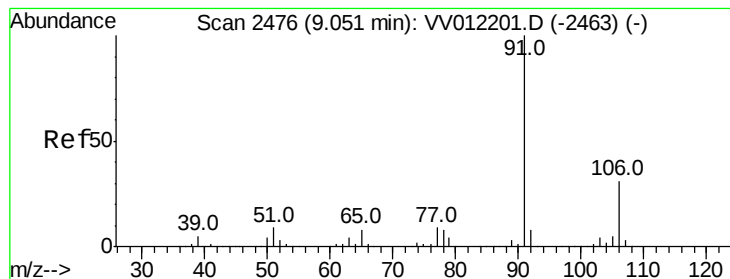
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0





#52

Ethylbenzene

Concen: 56.545 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

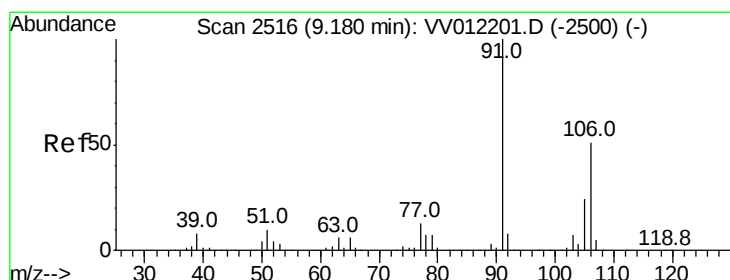
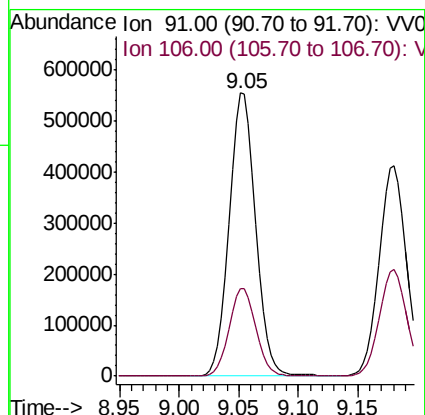
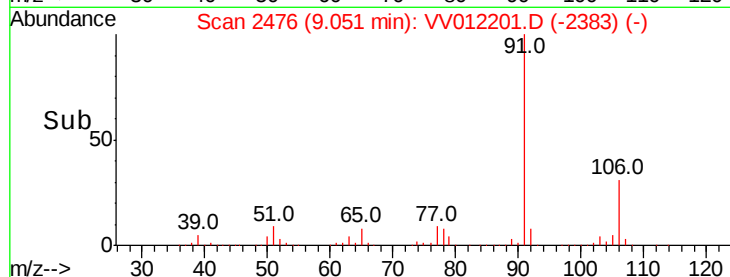
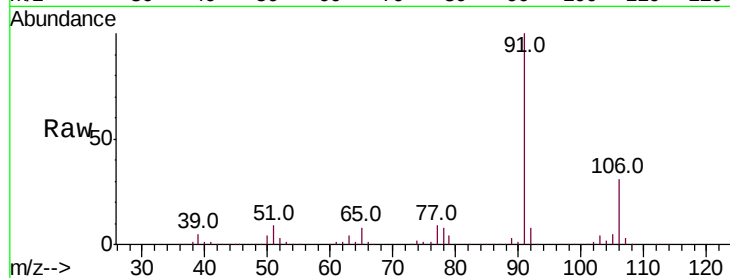
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 856126

Ion Ratio Lower Upper

91 100

106 31.1 21.8 40.4



#53

m,p-Xylene

Concen: 56.227 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012201.D

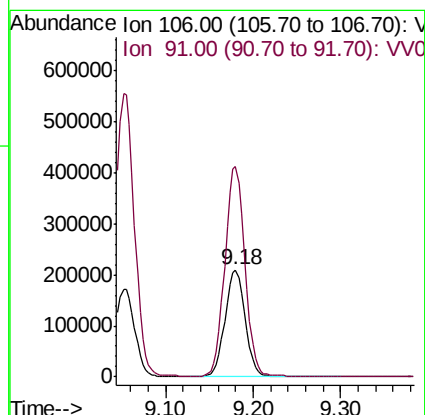
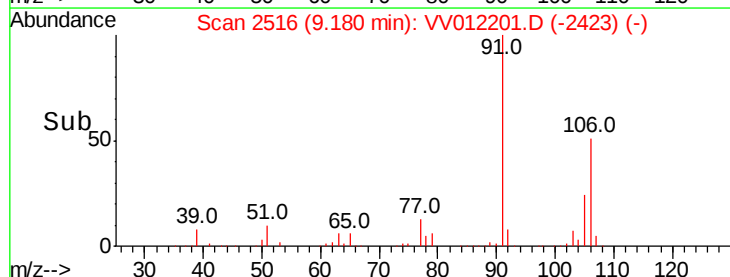
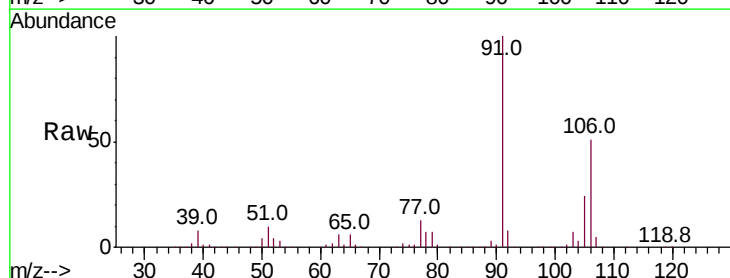
Acq: 12 Aug 2019 11:45

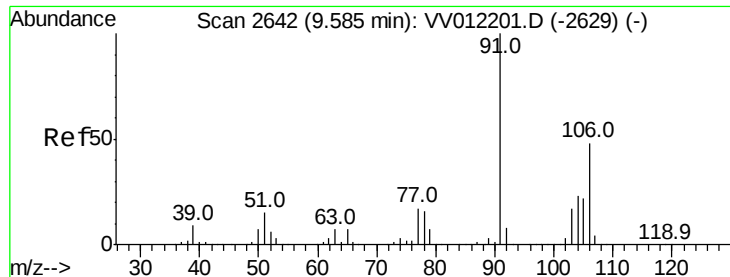
Tgt Ion: 106 Resp: 336005

Ion Ratio Lower Upper

106 100

91 197.2 138.0 256.4





#54

o-xylene

Concen: 55.312 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

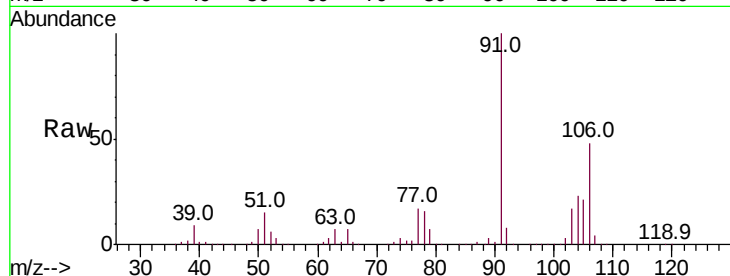
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 324676

Ion Ratio Lower Upper

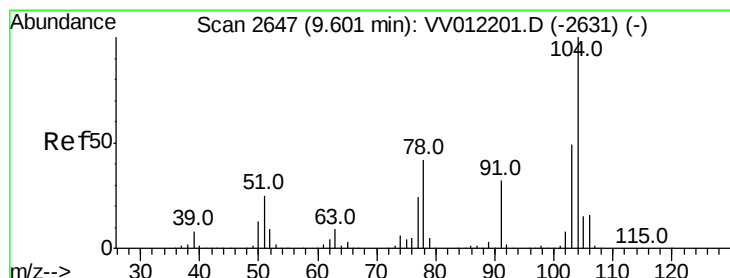
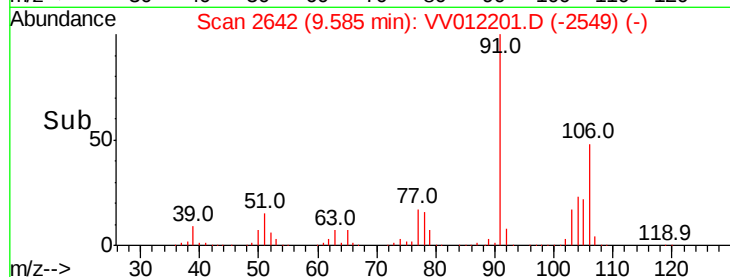
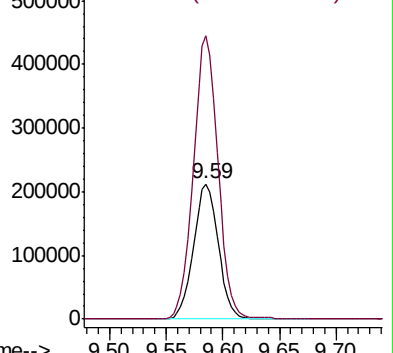
106 100

91 209.3 146.5 272.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 56.745 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV012201.D

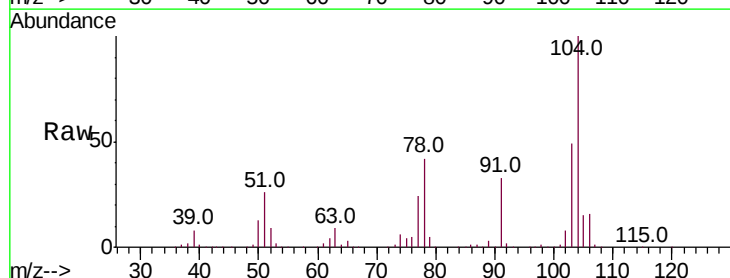
Acq: 12 Aug 2019 11:45

Tgt Ion:104 Resp: 560488

Ion Ratio Lower Upper

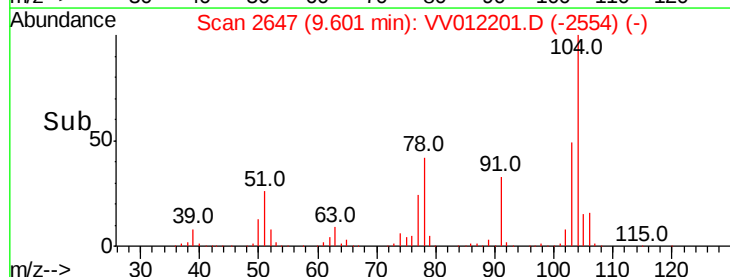
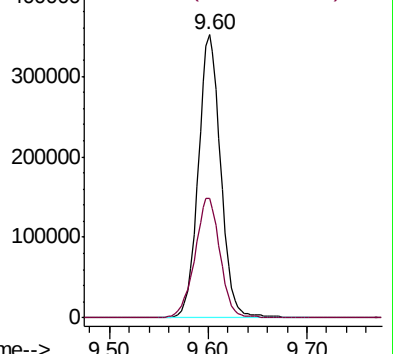
104 100

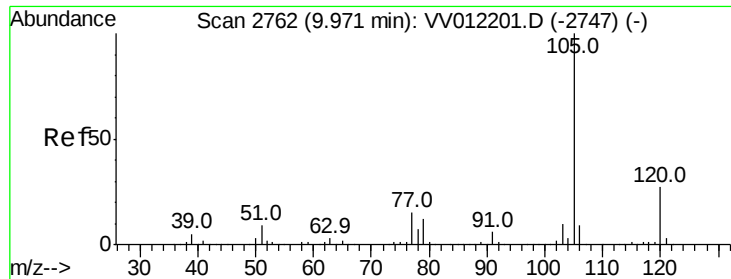
78 42.1 29.5 54.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 54.608 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

Instrument :
MSVOA_V
ClientSampleId :

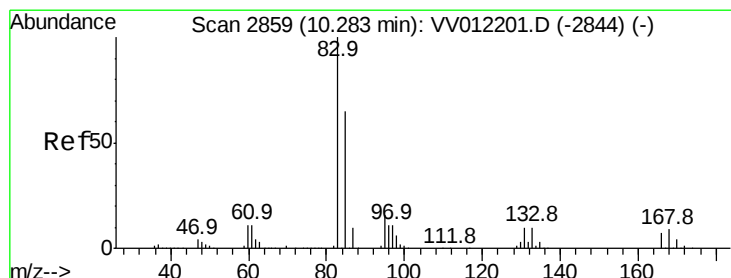
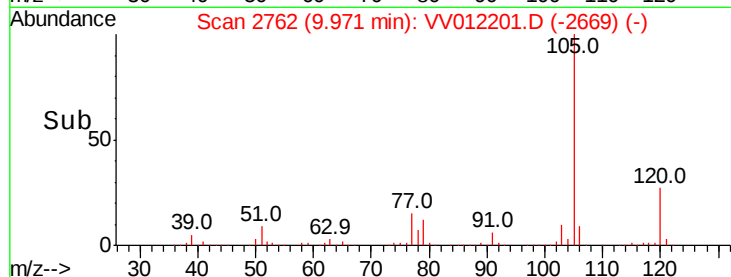
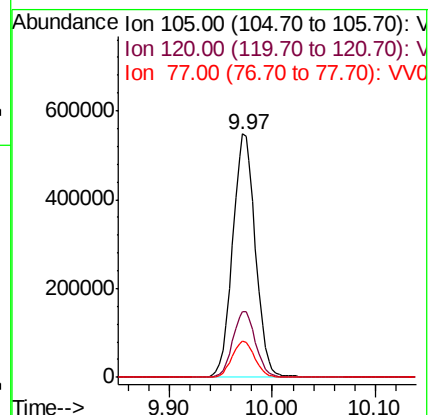
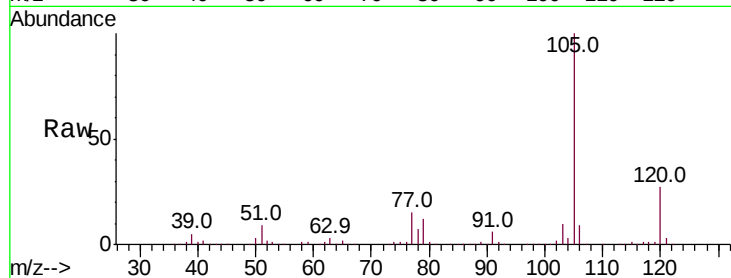
Tot Ion:105 Resp: 844182

Ion Ratio Lower Upper

105 100

120 27.3 21.8 32.8

77 15.0 12.0 18.0



#58

1,1,2,2-Tetrachloroethane

Concen: 57.061 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

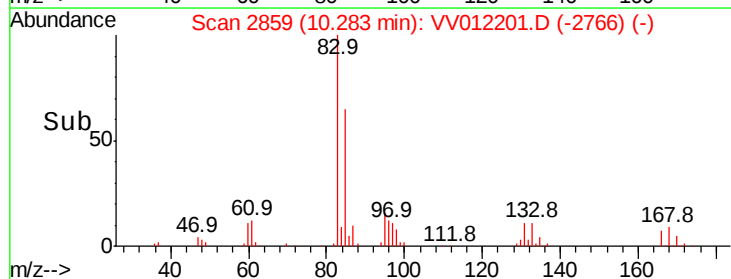
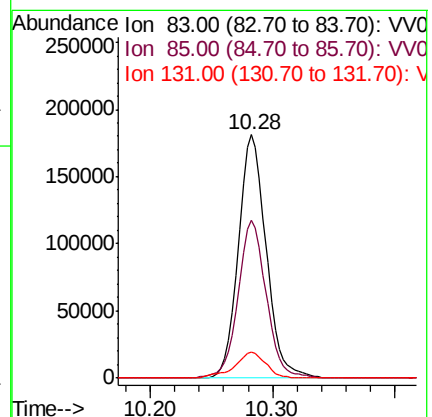
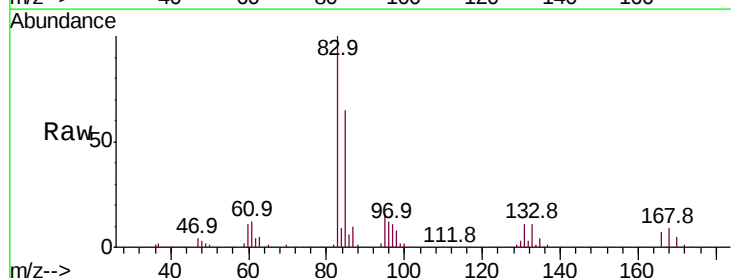
Tgt Ion: 83 Resp: 287176

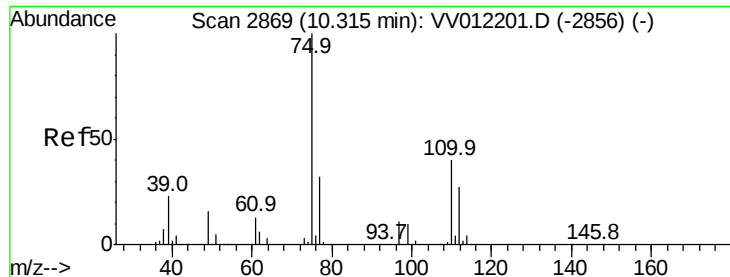
Ion Ratio Lower Upper

83 100

85 64.7 45.3 84.1

131 10.5 8.4 12.6

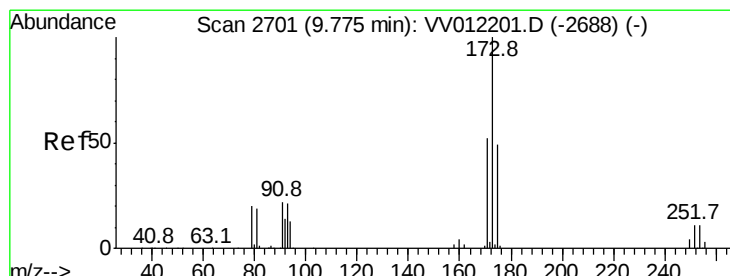
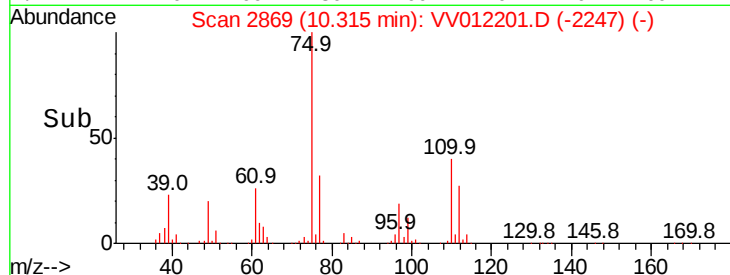
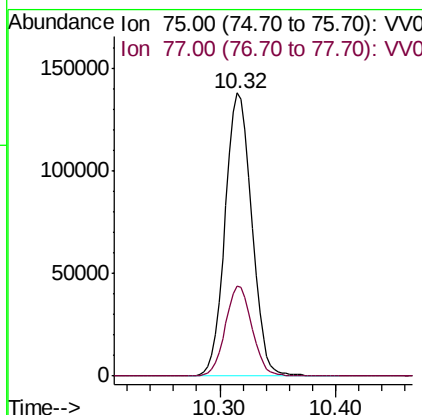
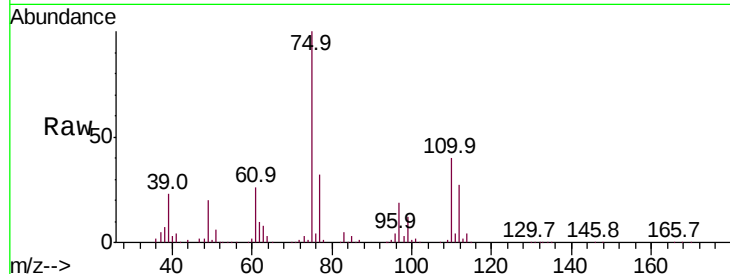




#59
 1,2,3-Trichloropropane
 Concen: 55.100 ug/L
 RT: 10.32 min Scan# 2869
 Delta R.T. 0.00 min
 Lab File: VV012201.D
 Acq: 12 Aug 2019 11:45

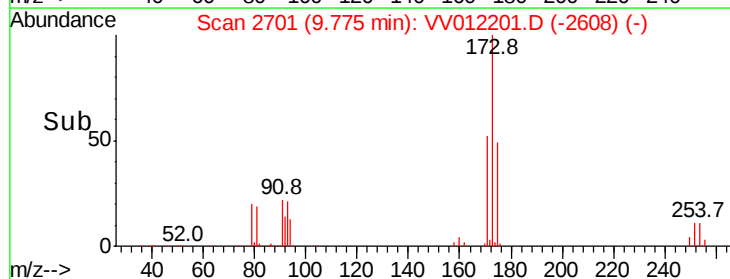
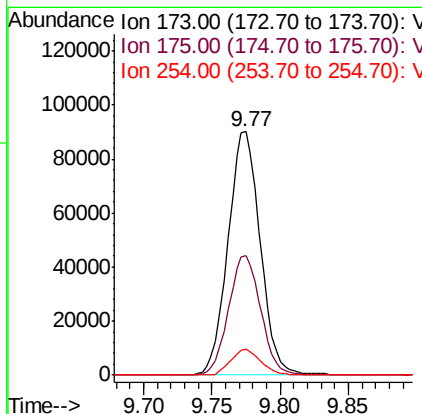
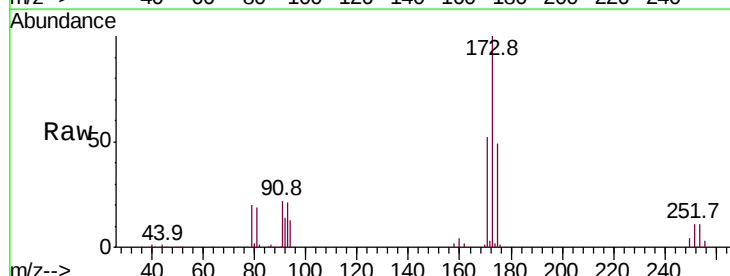
Instrument :
 MSVOA_V
 ClientSampled :

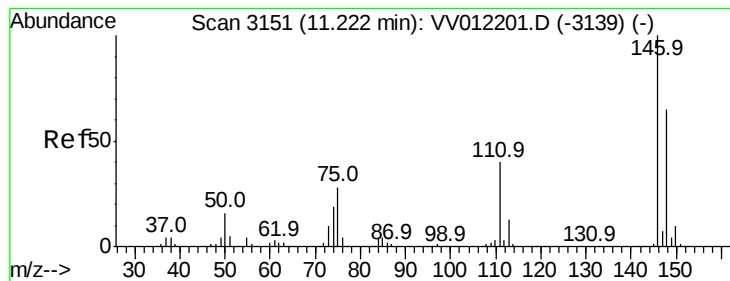
Tot Ion: 75 Resp: 219841
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.4 38.2



#61
 Bromoform
 Concen: 47.384 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV012201.D
 Acq: 12 Aug 2019 11:45

Tgt Ion:173 Resp: 147831
 Ion Ratio Lower Upper
 173 100
 175 48.7 39.0 58.4
 254 9.8 7.8 11.8





#62

1,3-Dichlorobenzene

Concen: 53.392 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

Instrument :

MSVOA_V

ClientSampleId :

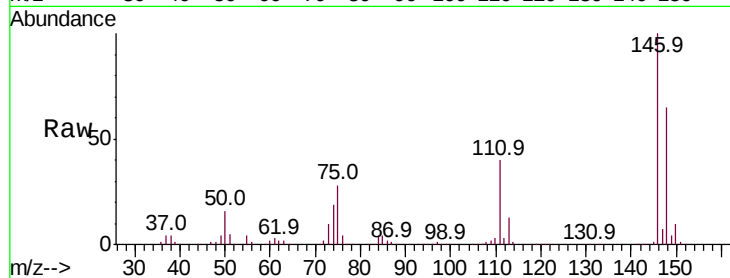
Tot Ion:146 Resp: 408426

Ion Ratio Lower Upper

146 100

111 39.6 27.7 51.5

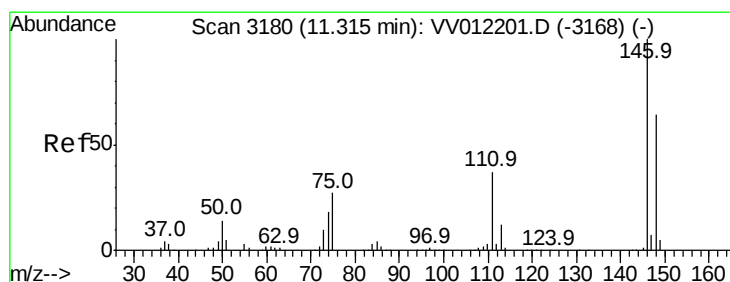
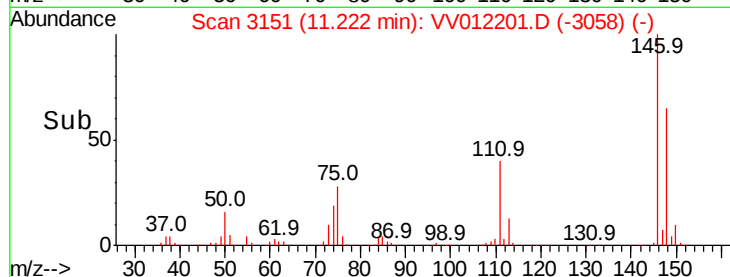
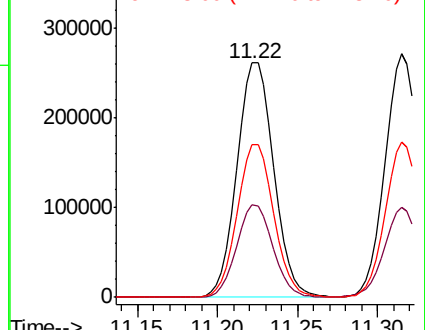
148 65.0 45.5 84.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 53.962 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

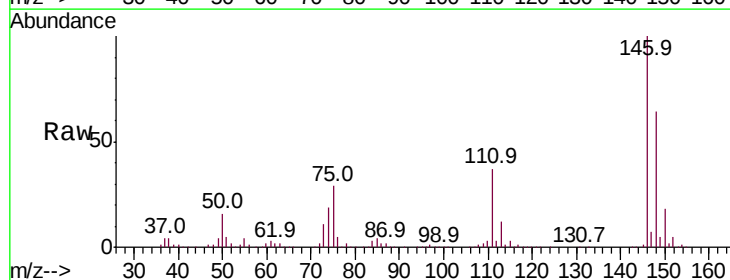
Tgt Ion:146 Resp: 414309

Ion Ratio Lower Upper

146 100

111 36.9 25.8 48.0

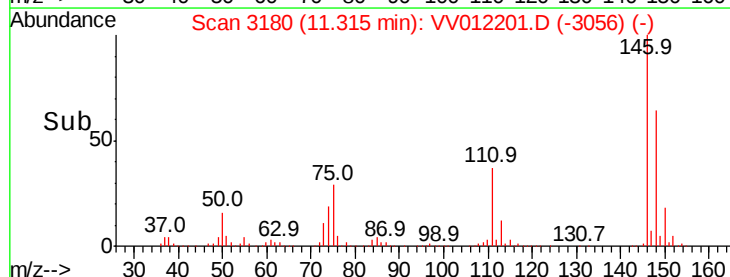
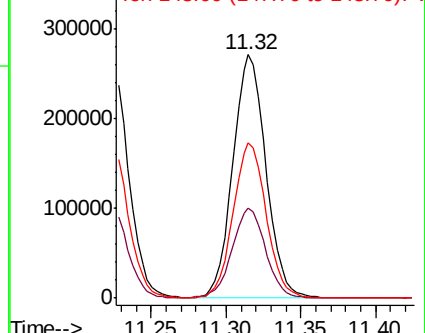
148 64.0 44.8 83.2

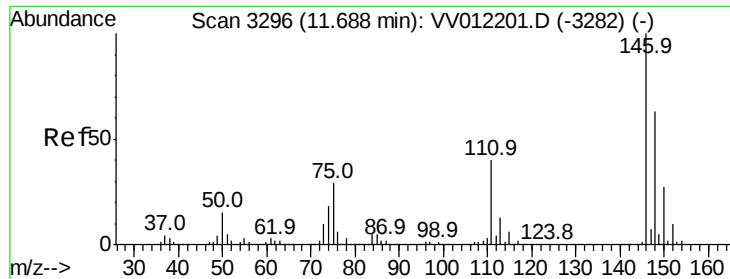


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 53.173 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

Instrument :

MSVOA_V

ClientSampleId :

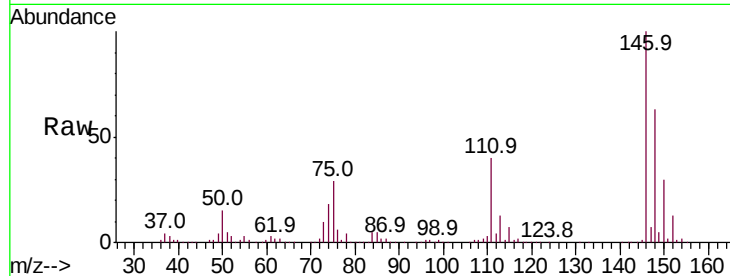
Tot Ion:146 Resp: 409246

Ion Ratio Lower Upper

146 100

111 39.7 31.8 47.6

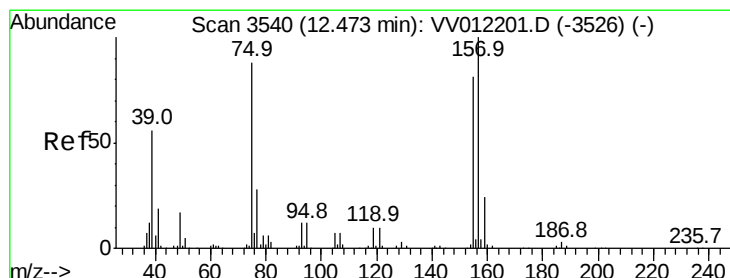
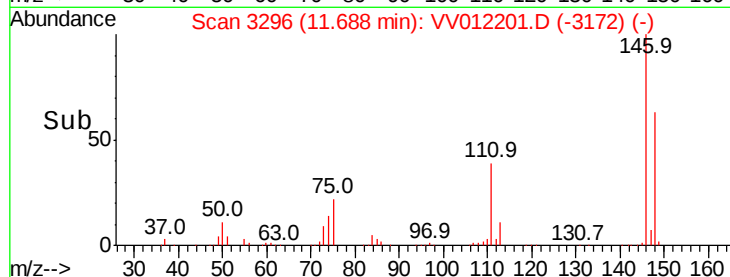
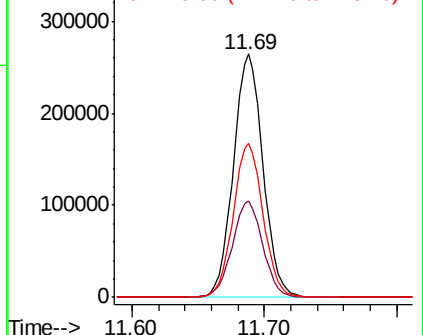
148 63.3 50.6 76.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 51.169 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

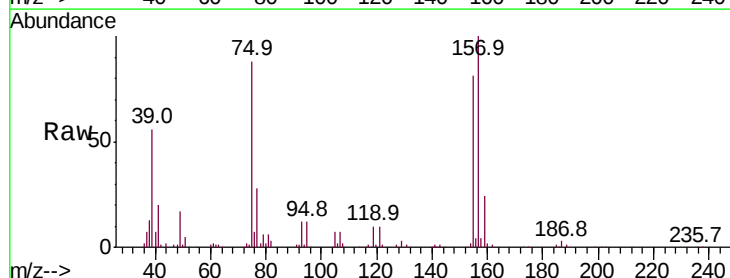
Tgt Ion: 75 Resp: 60516

Ion Ratio Lower Upper

75 100

155 92.4 73.9 110.9

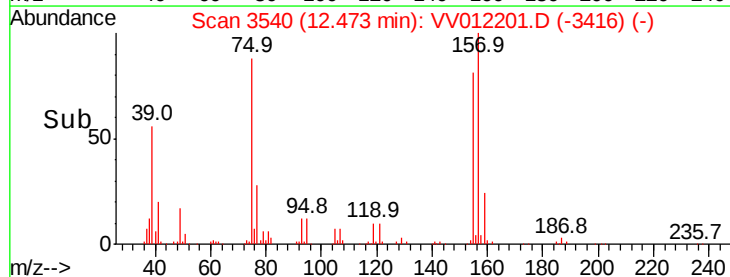
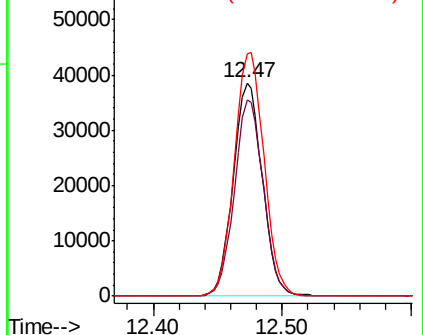
157 114.0 91.2 136.8

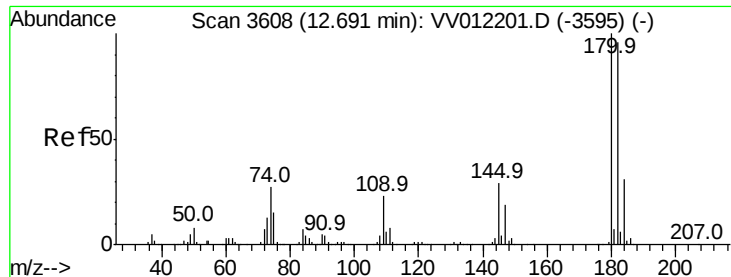


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

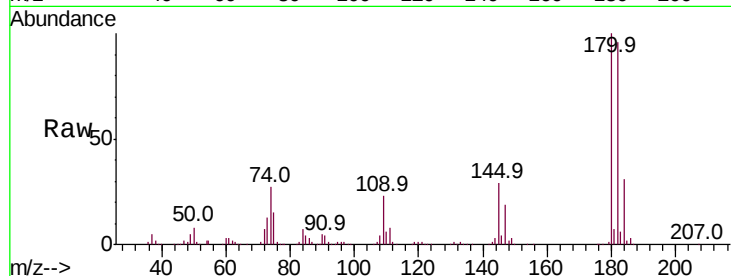




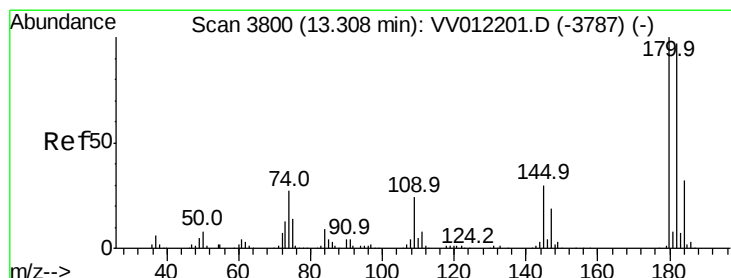
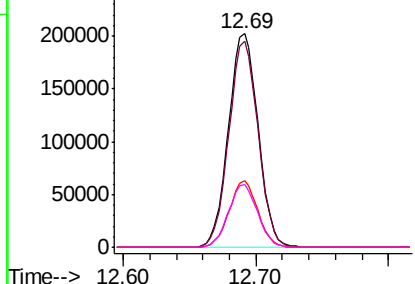
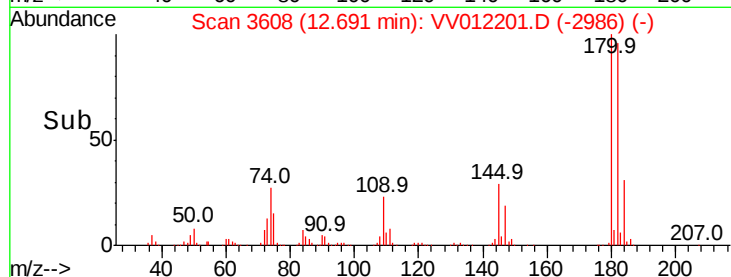
#67
 1,3,5-Trichlorobenzene
 Concen: 52.175 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012201.D
 Acq: 12 Aug 2019 11:45

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180 Resp: 314261
 Ion Ratio Lower Upper
 180 100
 182 95.0 76.0 114.0
 184 30.0 24.0 36.0
 145 28.8 23.0 34.6

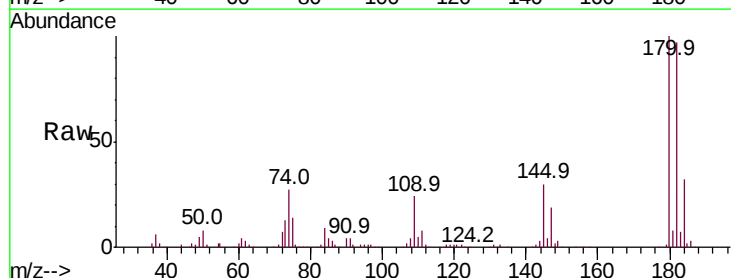


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

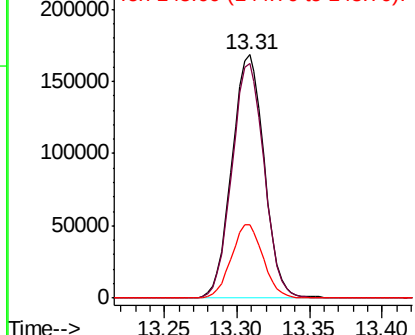
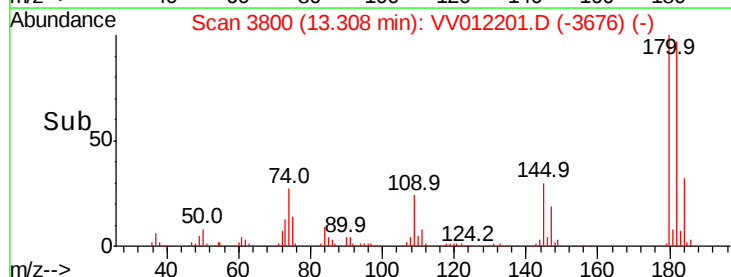


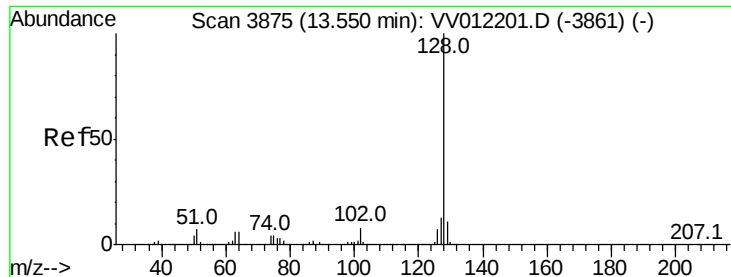
#68
 1,2,4-trichlorobenzene
 Concen: 52.385 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV012201.D
 Acq: 12 Aug 2019 11:45

Tgt Ion:180 Resp: 260673
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.6 115.0
 145 29.7 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: 55.313 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

Instrument :

MSVOA_V

ClientSampleId :

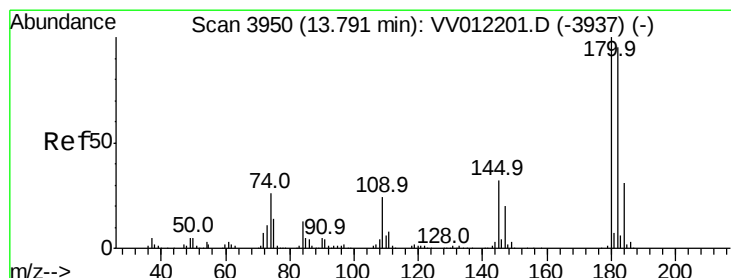
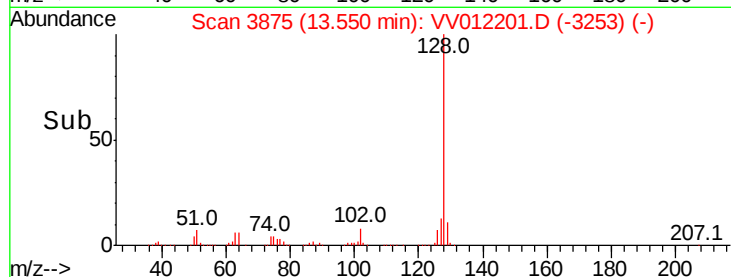
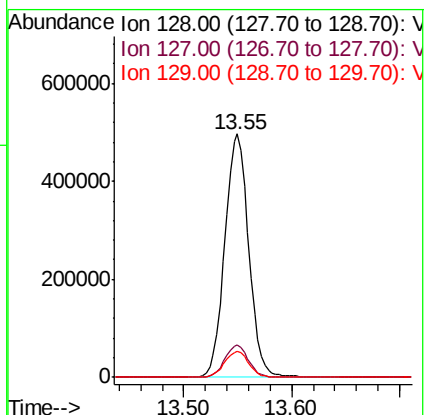
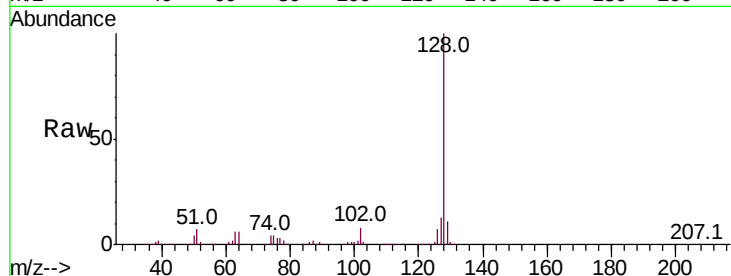
Tot Ion:128 Resp: 767913

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

129 10.8 8.6 13.0



#70

1,2,3-Trichlorobenzene

Concen: 52.587 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012201.D

Acq: 12 Aug 2019 11:45

Tgt Ion:180 Resp: 274611

Ion Ratio Lower Upper

180 100

182 94.3 75.4 113.2

145 31.2 25.0 37.4

