

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120219\
 Data File : VV013865.D
 Acq On : 02 Dec 2019 11:47
 Operator : SY/MD
 Sample : VSTD00564
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 03 01:26:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM120219WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Dec 03 01:23:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	694954	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	662313	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	355154	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	19973	4.96	ug/L	0.00
7) Chloroethane-d5	1.58	69	21086	6.04	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	46353	6.25	ug/L	0.00
21) 2-Butanone-d5	3.93	46	21965	7.42	ug/L	0.01
24) Chloroform-d	4.40	84	39616	4.55	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	26659	4.70	ug/L	0.00
32) Benzene-d6	5.10	84	81749	4.66	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	23560	4.20	ug/L	0.00
41) Toluene-d8	7.36	98	69011	4.29	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	11403	4.39	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	15255	7.52	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.25	84	34833	4.78	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	36513	5.20	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	34218	5.937 ug/L	99
3) Chloromethane	1.25	50	31976	5.908 ug/L	98
5) Vinyl chloride	1.32	62	32420	6.264 ug/L #	79
6) Bromomethane	1.53	94	20357	7.771 ug/L	98
8) Chloroethane	1.60	64	21262	6.999 ug/L	96
9) Trichlorofluoromethane	1.77	101	51388	7.173 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	28559	7.045 ug/L	98
12) 1,1-Dichloroethene	2.14	96	29673	7.684 ug/L	89
13) Acetone	2.18	43	52261	17.580 ug/L	93
14) Carbon disulfide	2.32	76	77832	6.139 ug/L	99
15) Methyl Acetate	2.46	43	25984	5.206 ug/L	99
16) Methylene chloride	2.53	84	29736	6.032 ug/L	99
17) trans-1,2-Dichloroethene	2.79	96	27961	6.139 ug/L	99
18) Methyl tert-butyl Ether	2.80	73	70948	5.143 ug/L	98
19) 1,1-Dichloroethane	3.23	63	49711	5.820 ug/L	99
20) cis-1,2-Dichloroethene	3.96	96	27890	5.596 ug/L	95
22) 2-Butanone	4.02	43	40756	11.129 ug/L	89
23) Bromochloromethane	4.29	128	16171	6.126 ug/L	91
25) Chloroform	4.42	83	56169	6.326 ug/L	98
27) 1,2-Dichloroethane	5.18	62	36613	5.452 ug/L	99
29) Cyclohexane	4.72	56	38254	5.075 ug/L	100
30) 1,1,1-Trichloroethane	4.66	97	43116	5.811 ug/L	98
31) Carbon tetrachloride	4.87	117	37801	5.709 ug/L	97
33) Benzene	5.14	78	102454	5.462 ug/L	100
34) Trichloroethene	5.96	95	28475	5.673 ug/L	95
35) Methylcyclohexane	6.17	83	39396	5.134 ug/L	98
37) 1,2-Dichloropropane	6.22	63	23877	4.897 ug/L #	96
38) Bromodichloromethane	6.55	83	36028	5.567 ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	35233	4.721 ug/L	95
40) 4-Methyl-2-pentanone	7.27	43	63187	10.189 ug/L	94

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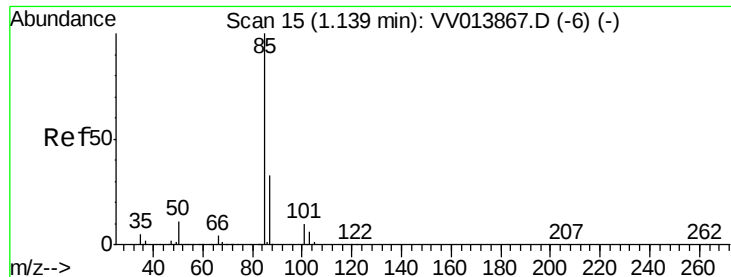
Instrument :
 MSVOA_V
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	7.43	91	101007	5.185	ug/L	96
44) trans-1,3-Dichloropropene	7.69	75	33637	5.195	ug/L	97
45) 1,1,2-Trichloroethane	7.88	97	24770	5.365	ug/L	94
46) Tetrachloroethene	8.02	164	25033	5.788	ug/L	96
48) 2-Hexanone	8.18	43	51956	10.675	ug/L #	93
49) Dibromochloromethane	8.28	129	29269	5.470	ug/L	99
50) 1,2-Dibromoethane	8.39	107	27585	5.645	ug/L	97
51) Chlorobenzene	8.92	112	76830	5.879	ug/L	99
52) Ethylbenzene	9.05	91	113127	5.335	ug/L	97
53) m,p-Xylene	9.18	106	41347	5.107	ug/L	91
54) o-xylene	9.58	106	39370	5.007	ug/L	96
55) Styrene	9.60	104	64936	4.755	ug/L	98
56) Isopropylbenzene	9.97	105	105896	5.052	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	39024	5.499	ug/L	98
59) 1,2,3-Trichloropropane	10.31	75	34504	5.833	ug/L	97
61) Bromoform	9.77	173	23595	5.715	ug/L	100
62) 1,3-Dichlorobenzene	11.22	146	65014	6.041	ug/L	95
63) 1,4-Dichlorobenzene	11.31	146	68365	6.111	ug/L	98
65) 1,2-Dichlorobenzene	11.68	146	66365	6.156	ug/L	94
66) 1,2-Dibromo-3-chloropropan	12.47	75	8882	5.952	ug/L	95
67) 1,3,5-Trichlorobenzene	12.69	180	53090	6.288	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	48934	6.585	ug/L	99
69) Naphthalene	13.55	128	134835	6.791	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	54352	6.853	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 5.937 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

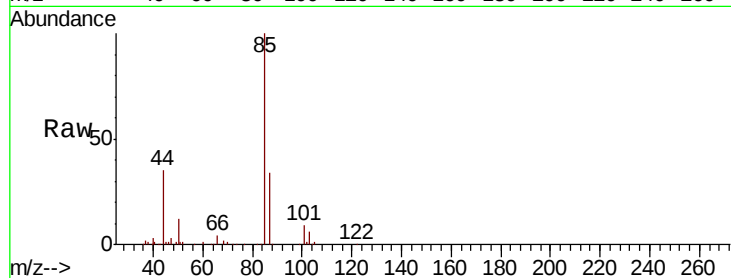
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 85 Resp: 34218

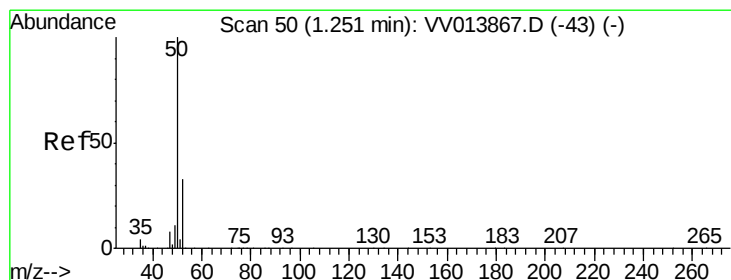
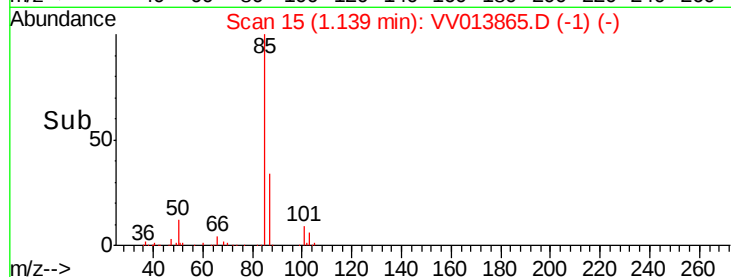
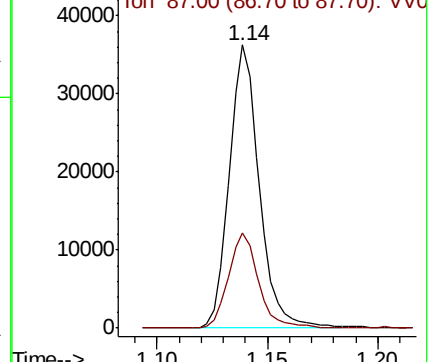
Ion Ratio Lower Upper

85 100

87 33.5 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VV013865.D (-6) (-)



#3

Chloromethane

Concen: 5.908 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV013865.D

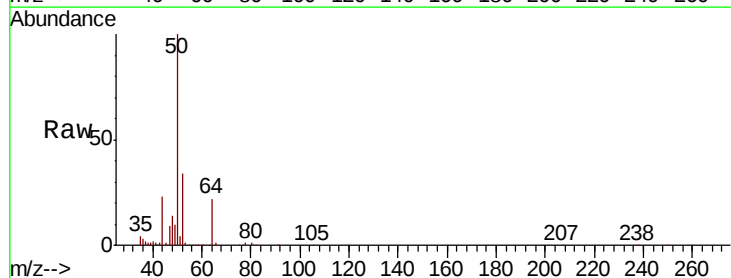
Acq: 02 Dec 2019 11:47

Tgt Ion: 50 Resp: 31976

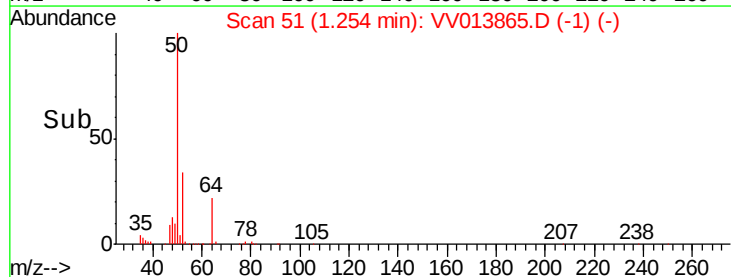
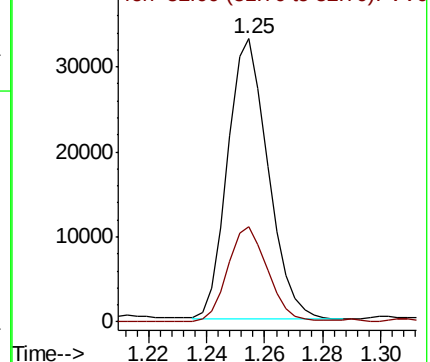
Ion Ratio Lower Upper

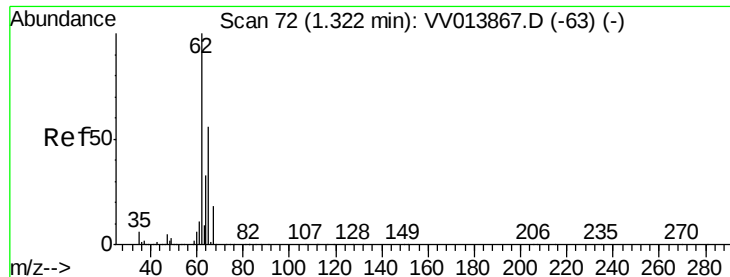
50 100

52 33.7 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV013865.D (-43) (-)





#5

Vinyl chloride

Concen: 6.264 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

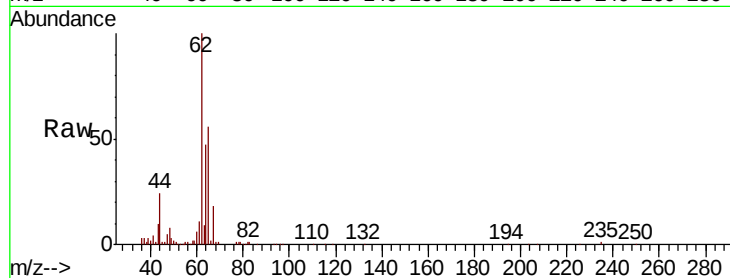
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 32420

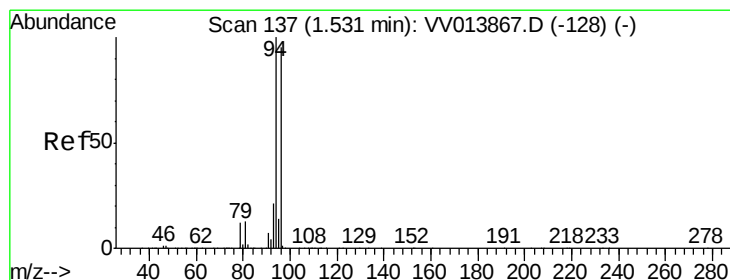
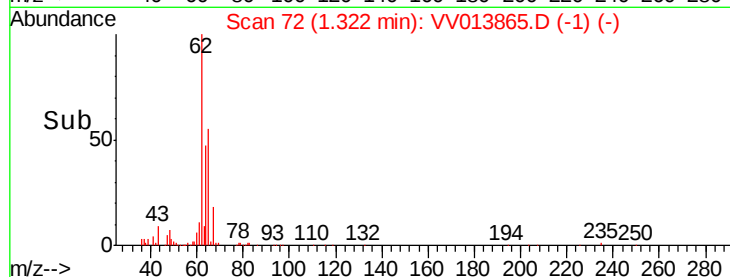
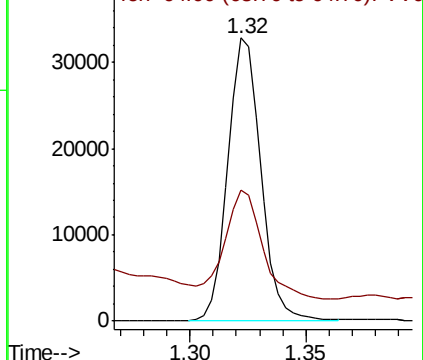
Ion Ratio Lower Upper

62 100

64 46.5 24.1 44.8#



Abundance Ion 62.00 (61.70 to 62.70): VV0
Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 7.771 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV013865.D

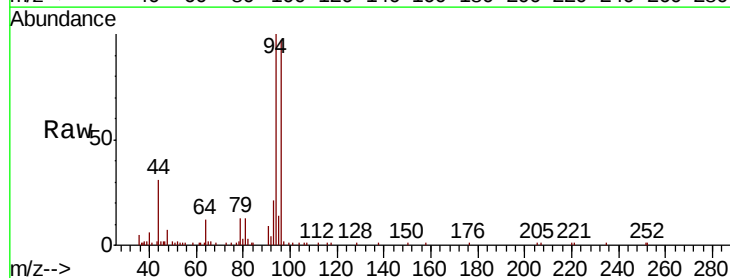
Acq: 02 Dec 2019 11:47

Tgt Ion: 94 Resp: 20357

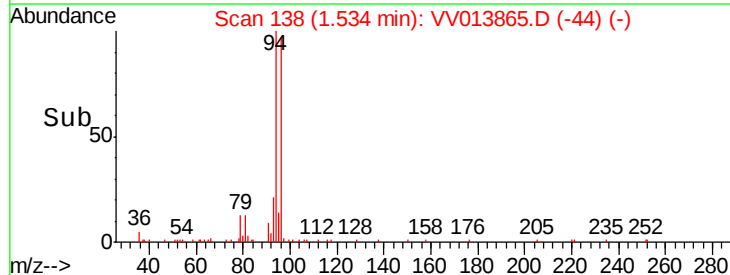
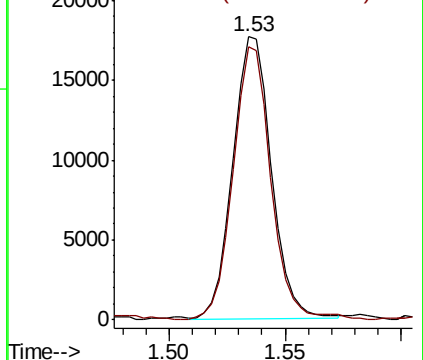
Ion Ratio Lower Upper

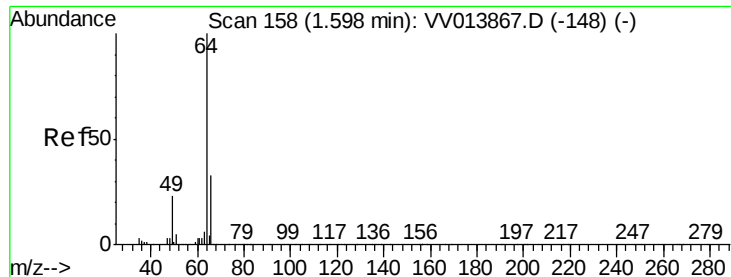
94 100

96 96.7 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VV0
Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 6.999 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

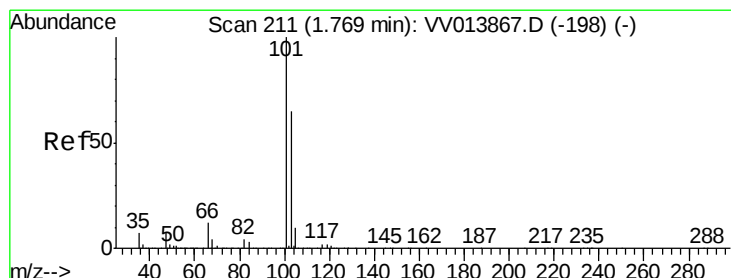
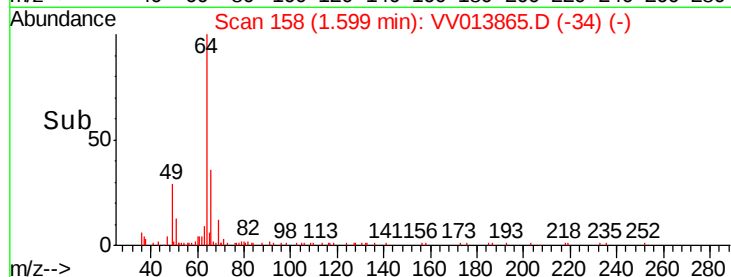
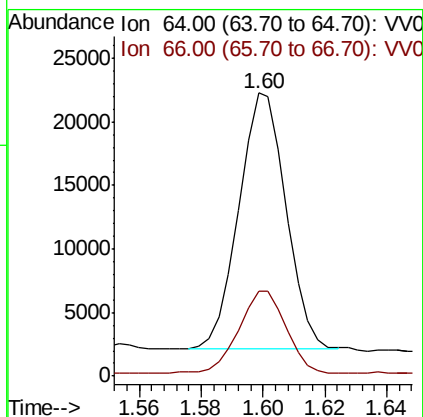
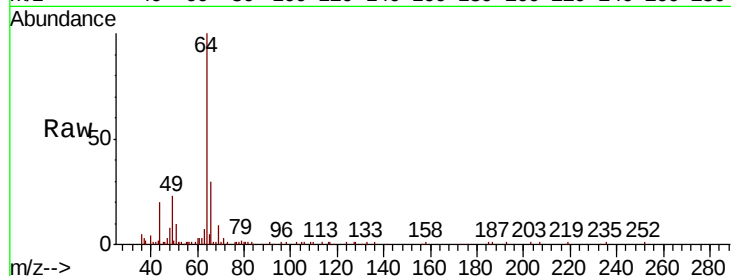
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 21262

Ion Ratio Lower Upper

64 100

66 30.1 22.7 42.1



#9

Trichlorofluoromethane

Concen: 7.173 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV013865.D

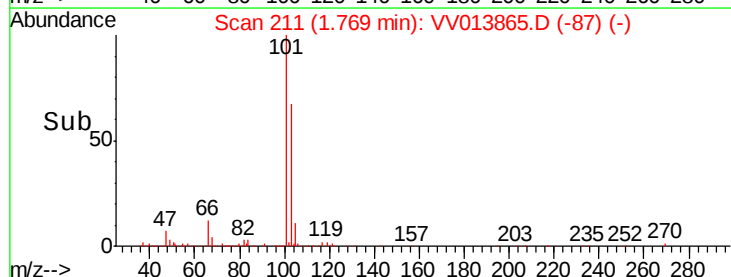
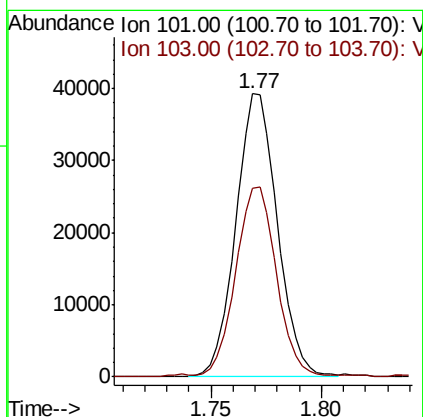
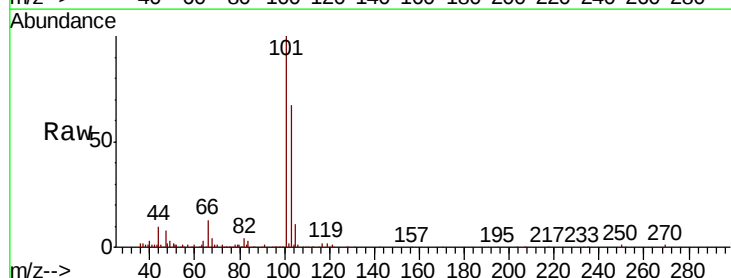
Acq: 02 Dec 2019 11:47

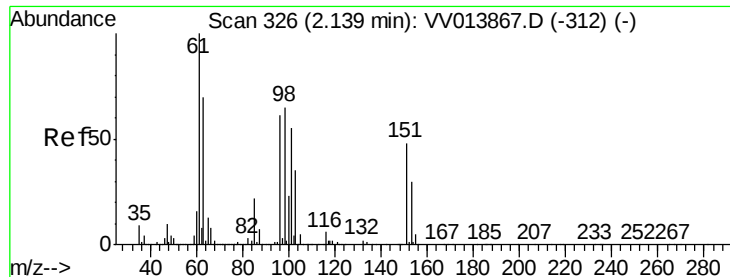
Tgt Ion: 101 Resp: 51388

Ion Ratio Lower Upper

101 100

103 65.7 51.9 77.9





#10

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

Concen: 7.045 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

Instrument :

MSVOA_V

ClientSampleId :

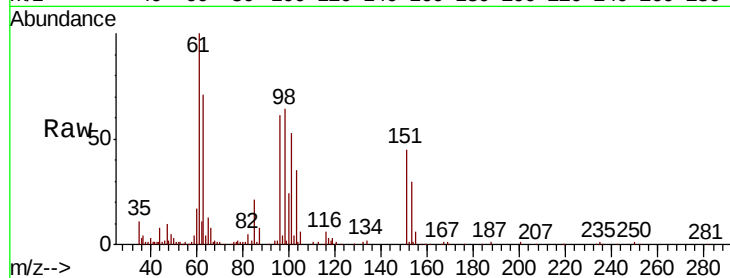
Tot Ion:101 Resp: 28559

Ion Ratio Lower Upper

101 100

85 41.8 32.5 48.7

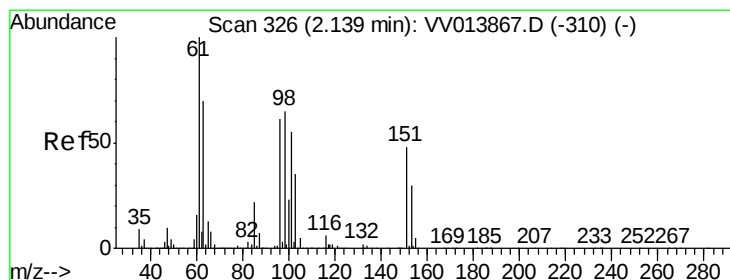
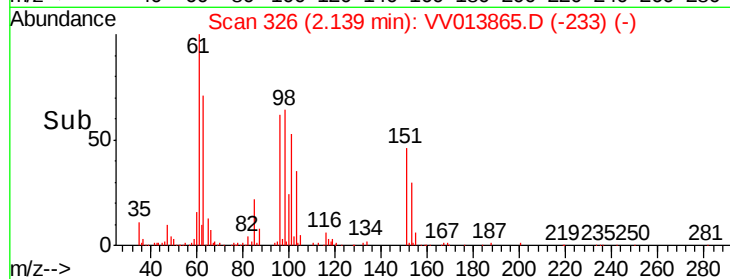
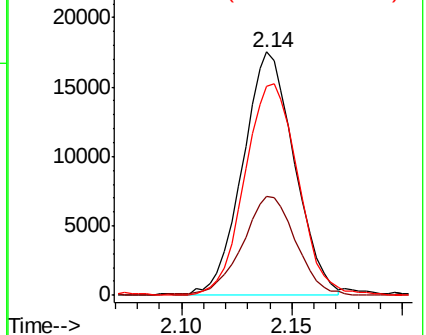
151 89.7 69.8 104.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 7.684 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

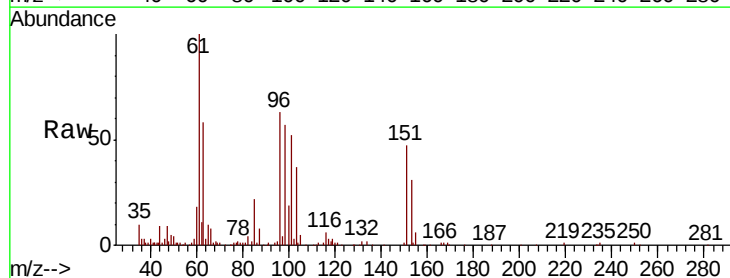
Tgt Ion: 96 Resp: 29673

Ion Ratio Lower Upper

96 100

61 157.6 114.0 211.8

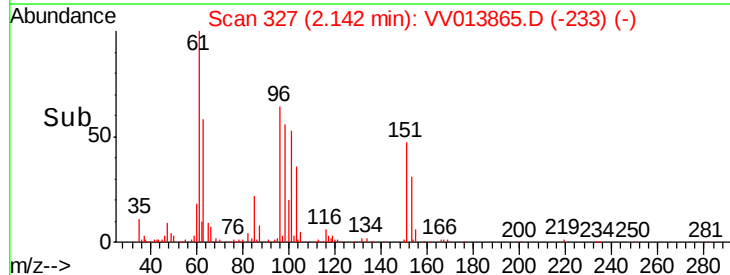
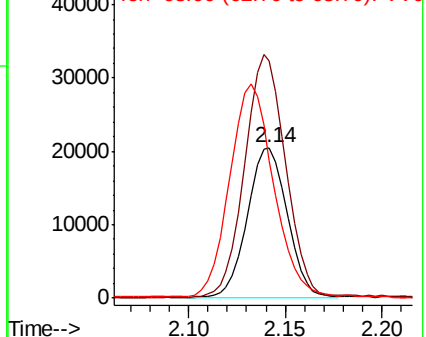
63 91.7 80.3 149.1

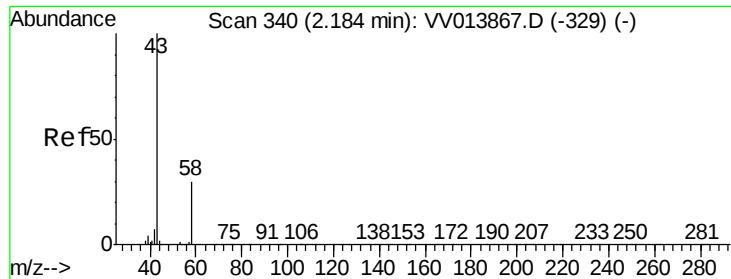


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 17.580 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

Instrument :

MSVOA_V

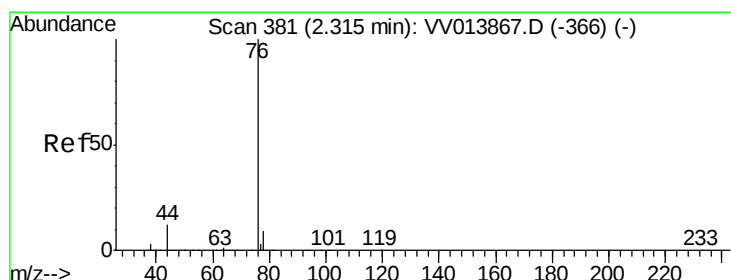
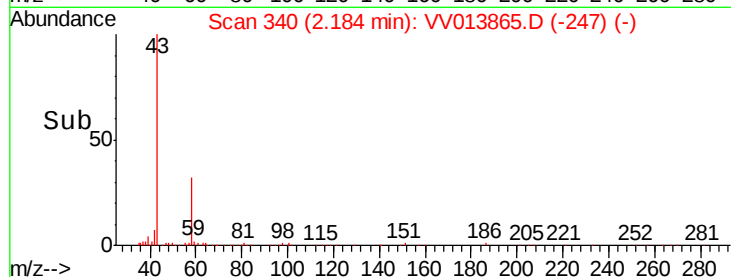
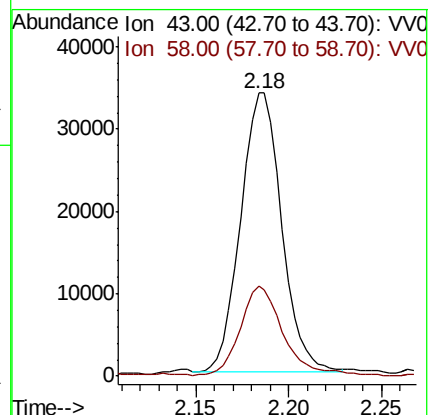
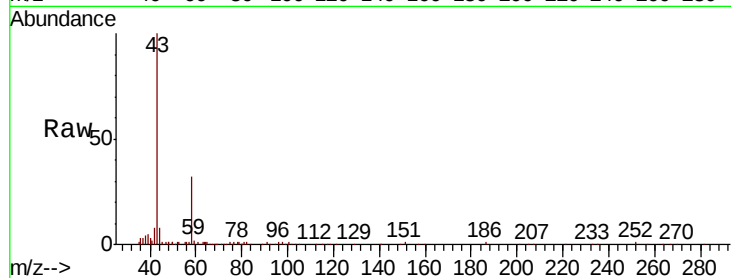
ClientSampleId :

Tot Ion: 43 Resp: 52261

Ion Ratio Lower Upper

43 100

58 34.1 0.0 60.8



#14

Carbon disulfide

Concen: 6.139 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV013865.D

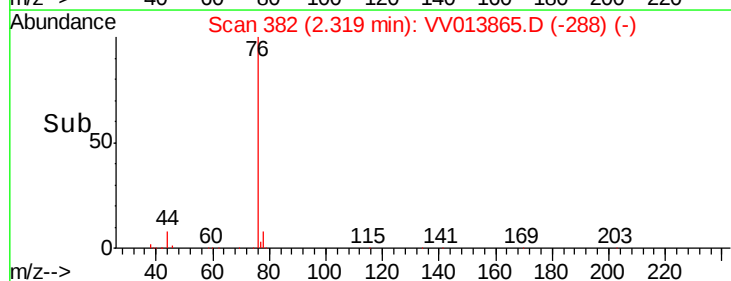
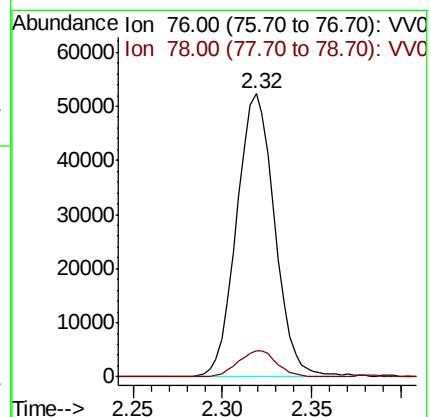
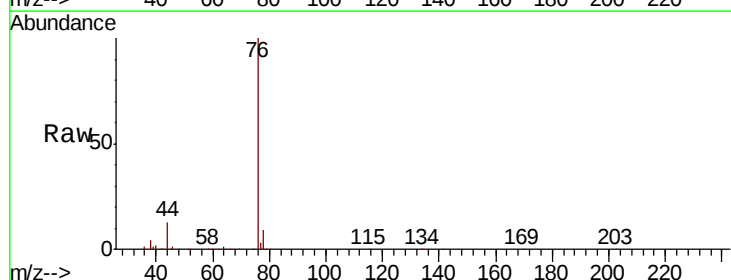
Acq: 02 Dec 2019 11:47

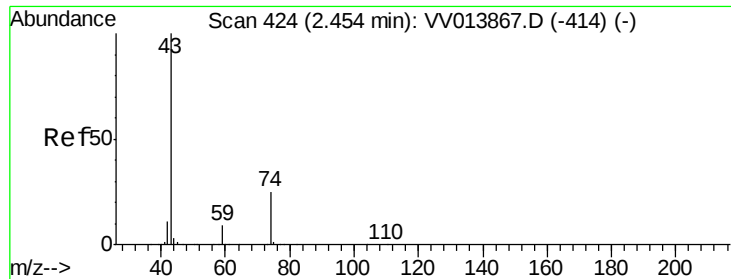
Tgt Ion: 76 Resp: 77832

Ion Ratio Lower Upper

76 100

78 9.3 7.2 10.8





#15

Methyl Acetate

Concen: 5.206 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

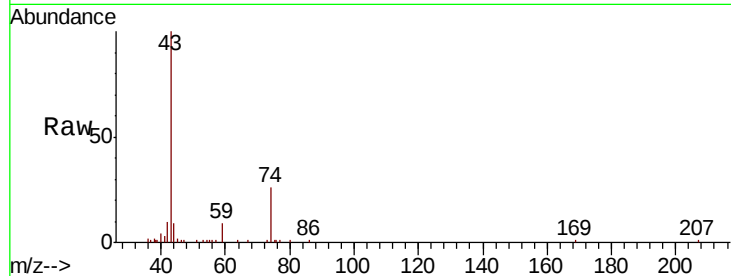
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 25984

Ion Ratio Lower Upper

43 100

74 24.6 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VV013867.D (-414) (-)

Ion 74.00 (73.70 to 74.70): VV013867.D (-414) (-)

2.46

15000

10000

5000

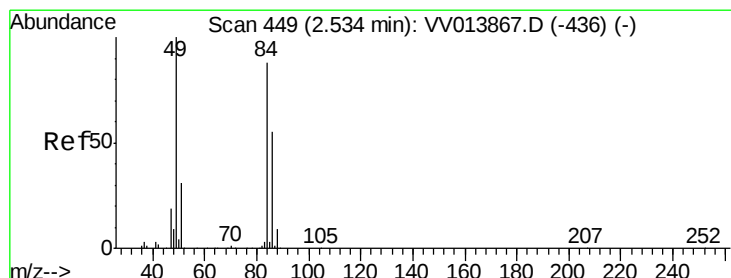
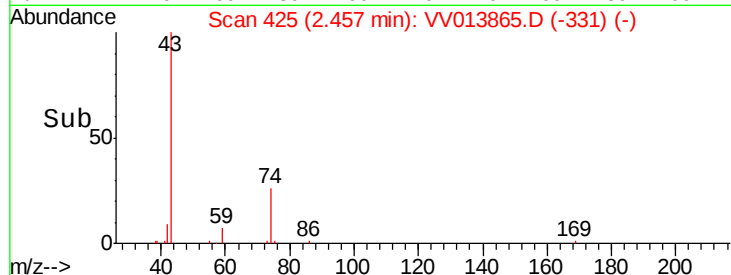
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Time-->

2.40

2.45

2.50



#16

Methylene chloride

Concen: 6.032 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

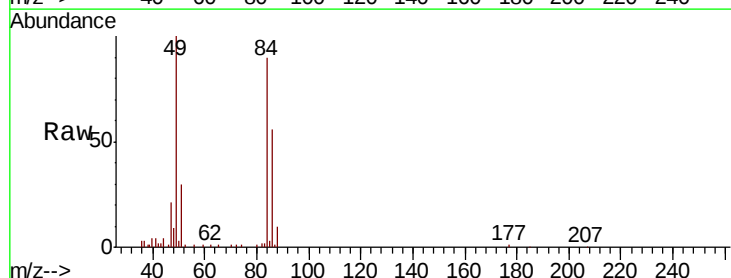
Tgt Ion: 84 Resp: 29736

Ion Ratio Lower Upper

84 100

86 62.6 43.9 81.5

49 111.6 79.7 147.9



Abundance Ion 84.00 (83.70 to 84.70): VV013867.D (-436) (-)

Ion 86.00 (85.70 to 86.70): VV013867.D (-436) (-)

Ion 49.00 (48.70 to 49.70): VV013867.D (-436) (-)

2.53

30000

25000

20000

15000

10000

5000

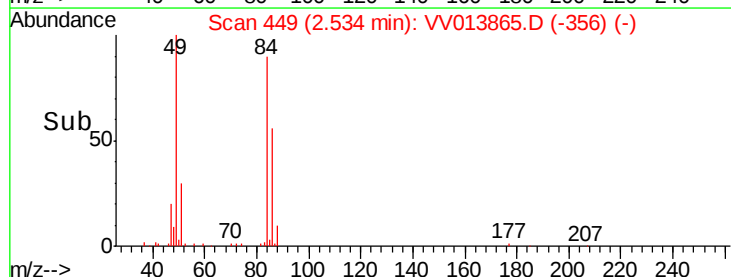
0

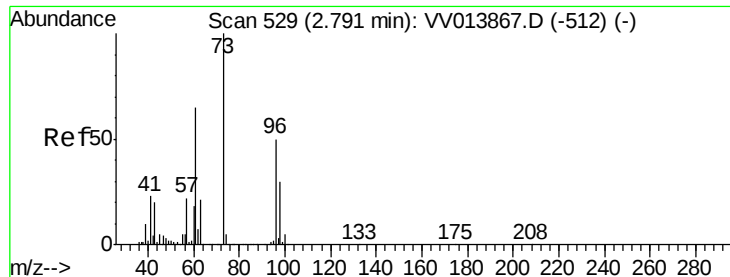
Time-->

2.50

2.55

2.60

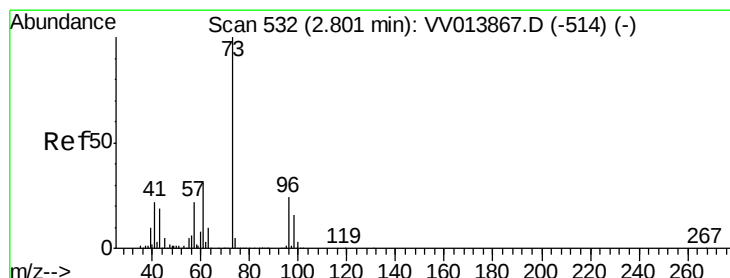
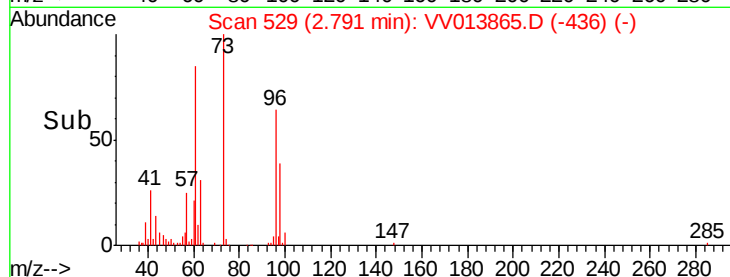
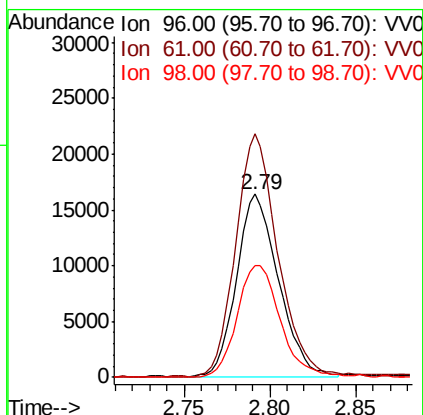
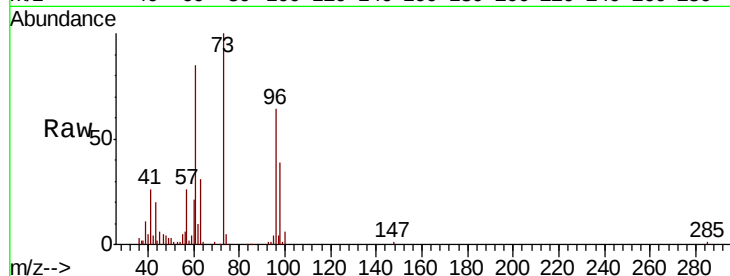




#17
trans-1,2-Dichloroethene
Concen: 6.139 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV013865.D
Acq: 02 Dec 2019 11:47

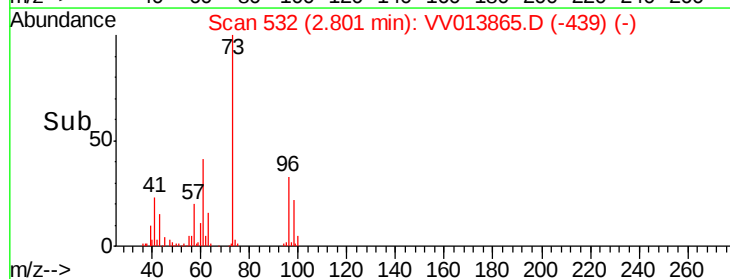
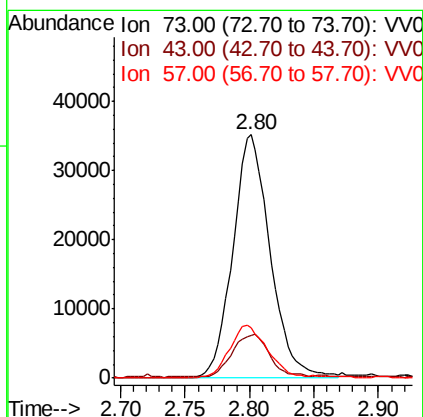
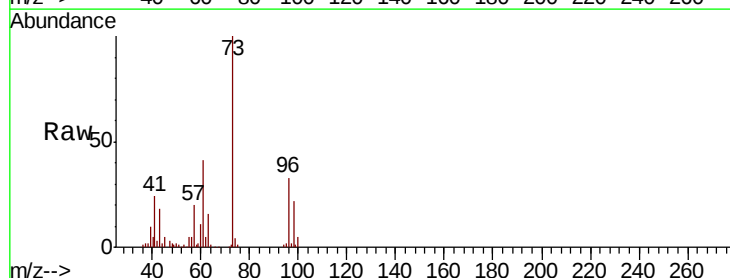
Instrument :
MSVOA_V
ClientSampleId :

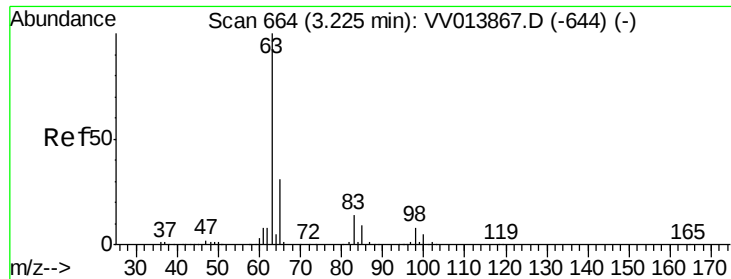
Tot Ion: 96 Resp: 27961
Ion Ratio Lower Upper
96 100
61 132.8 92.2 171.2
98 61.0 42.6 79.2



#18
Methyl tert-butyl Ether
Concen: 5.143 ug/L
RT: 2.80 min Scan# 532
Delta R.T. 0.00 min
Lab File: VV013865.D
Acq: 02 Dec 2019 11:47

Tgt Ion: 73 Resp: 70948
Ion Ratio Lower Upper
73 100
43 16.9 15.0 22.6
57 22.0 17.4 26.2

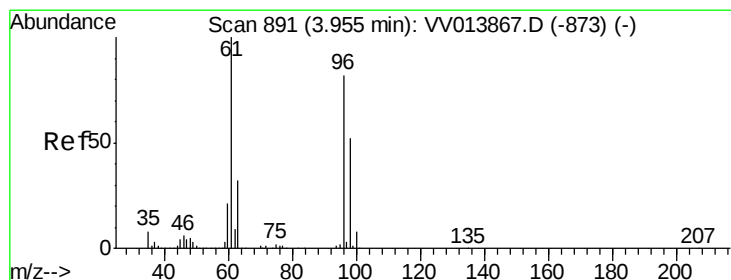
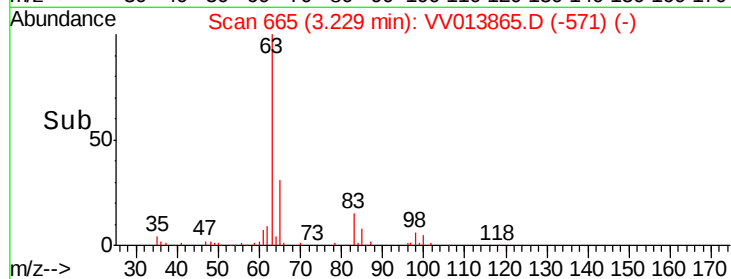
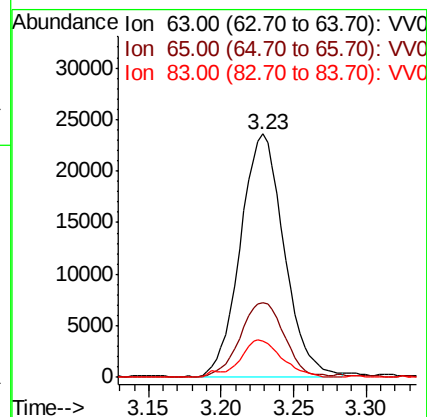
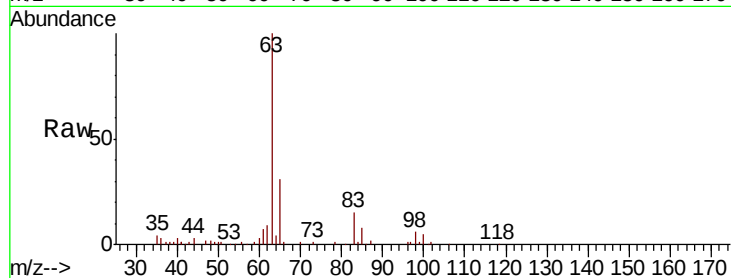




#19
 1,1-Dichloroethane
 Concen: 5.820 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV013865.D
 Acq: 02 Dec 2019 11:47

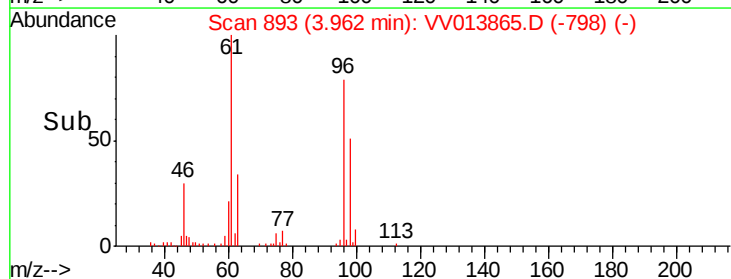
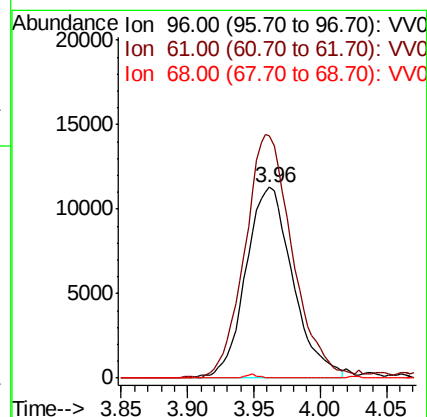
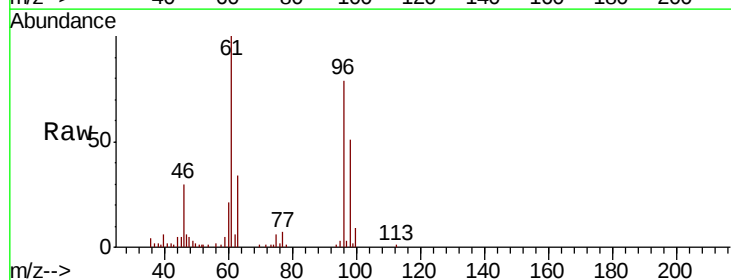
Instrument :
 MSVOA_V
 ClientSampled :

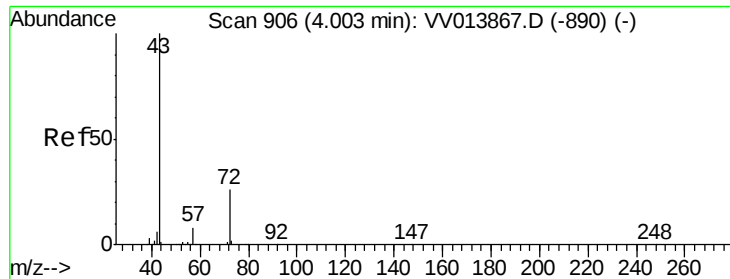
Tot Ion: 63 Resp: 49711
 Ion Ratio Lower Upper
 63 100
 65 30.6 21.5 39.9
 83 14.8 9.7 18.1



#20
 cis-1,2-Dichloroethene
 Concen: 5.596 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.01 min
 Lab File: VV013865.D
 Acq: 02 Dec 2019 11:47

Tgt Ion: 96 Resp: 27890
 Ion Ratio Lower Upper
 96 100
 61 127.0 85.3 158.5
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 11.129 ug/L

RT: 4.02 min Scan# 910

Delta R.T. 0.01 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

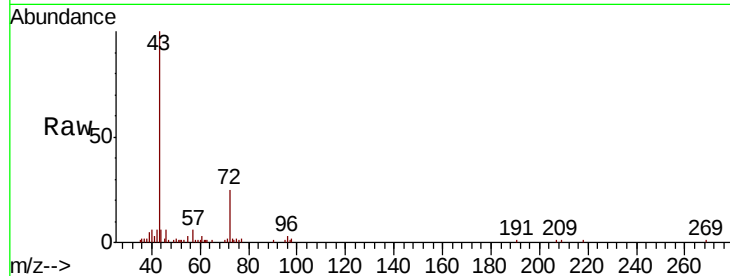
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 40756

Ion Ratio Lower Upper

43 100

72 22.3 14.1 42.2



Abundance Ion 43.00 (42.70 to 43.70): VV013867.D (-890) (-)

Ion 72.00 (71.70 to 72.70): VV013867.D (-890) (-)

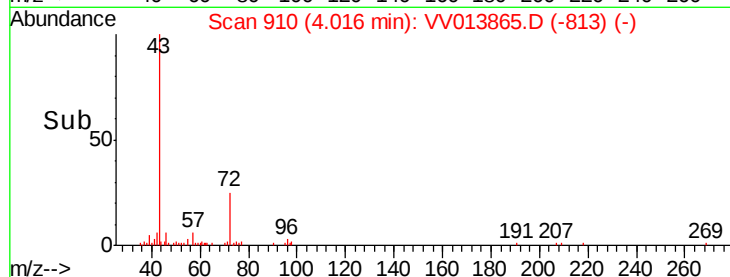
15000

10000

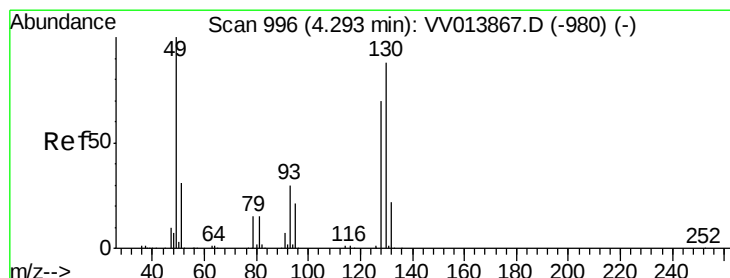
5000

0

Time-->



Time-->



#23

Bromochloromethane

Concen: 6.126 ug/L

RT: 4.29 min Scan# 996

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

Tgt Ion: 128 Resp: 16171

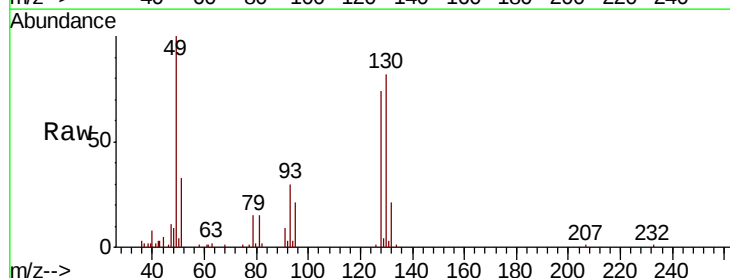
Ion Ratio Lower Upper

128 100

49 134.7 100.4 186.4

130 110.5 88.3 163.9

51 43.8 35.8 53.8



Abundance Ion 128.00 (127.70 to 128.70): VV013867.D (-980) (-)

Ion 49.00 (48.70 to 49.70): VV013867.D (-980) (-)

Ion 130.00 (129.70 to 130.70): VV013867.D (-980) (-)

Ion 51.00 (50.70 to 51.70): VV013867.D (-980) (-)

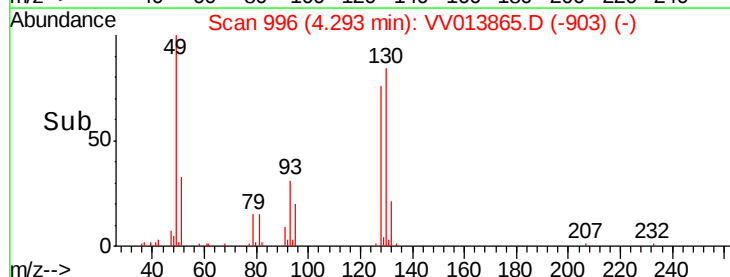
15000

10000

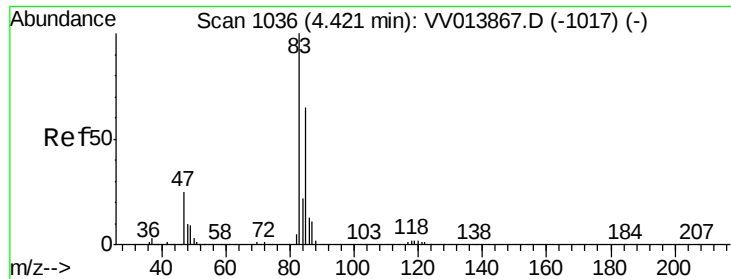
5000

0

Time-->



Time-->



#25

Chloroform

Concen: 6.326 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

Instrument :

MSVOA_V

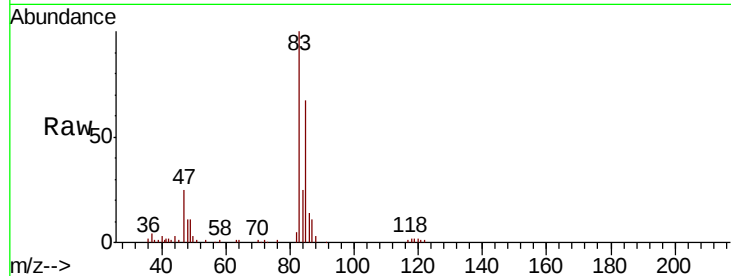
ClientSampled :

Tot Ion: 83 Resp: 56169

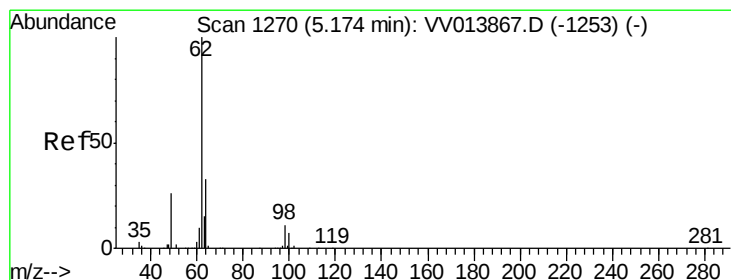
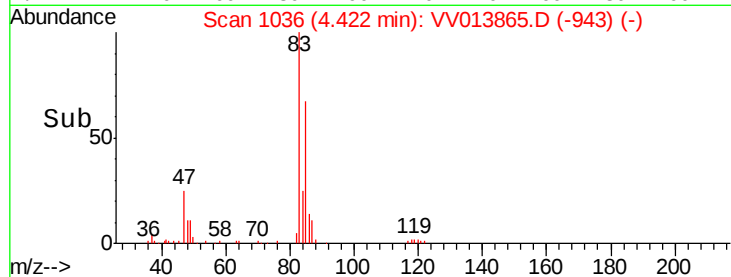
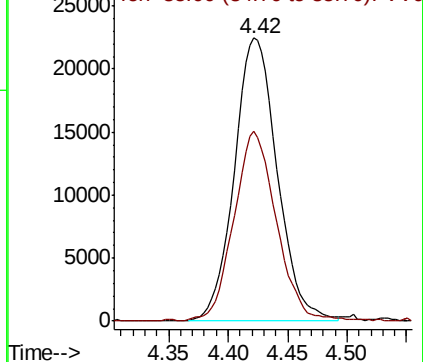
Ion Ratio Lower Upper

83 100

85 67.2 45.7 84.9



Abundance Ion 83.00 (82.70 to 83.70): VV013865.D (-943) (-)



#27

1,2-Dichloroethane

Concen: 5.452 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV013865.D

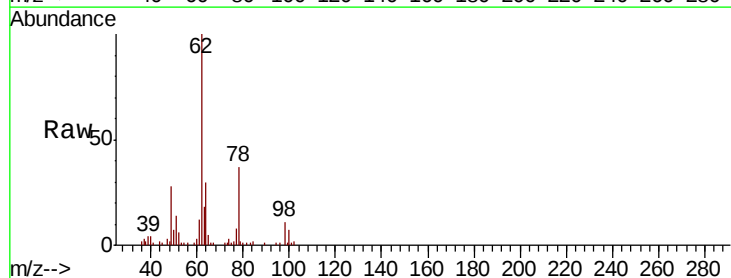
Acq: 02 Dec 2019 11:47

Tgt Ion: 62 Resp: 36613

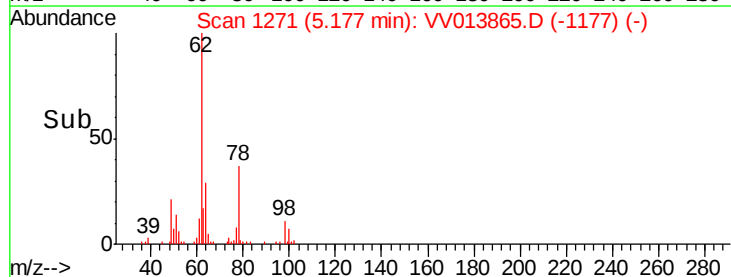
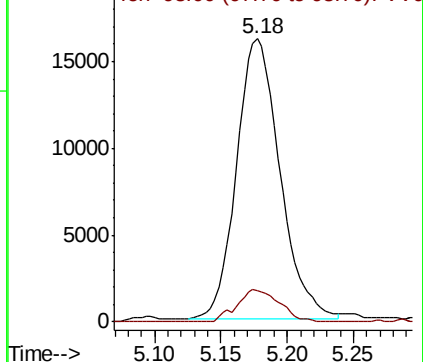
Ion Ratio Lower Upper

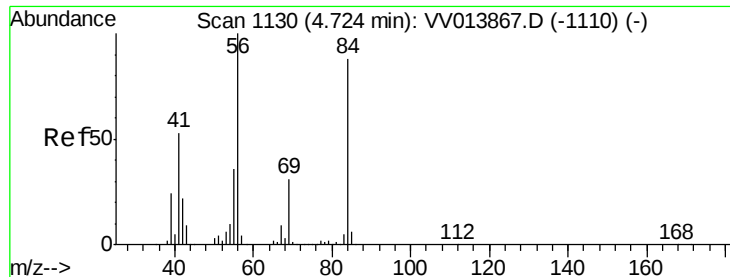
62 100

98 11.0 8.5 12.7



Abundance Ion 62.00 (61.70 to 62.70): VV013865.D (-1177) (-)

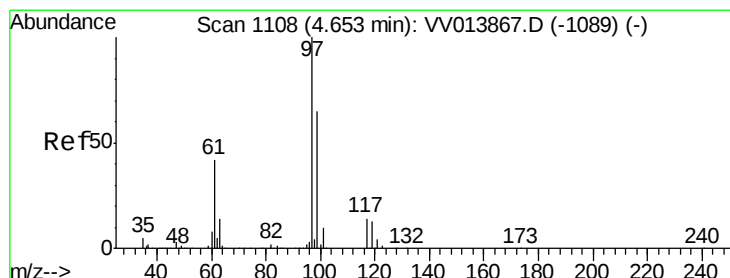
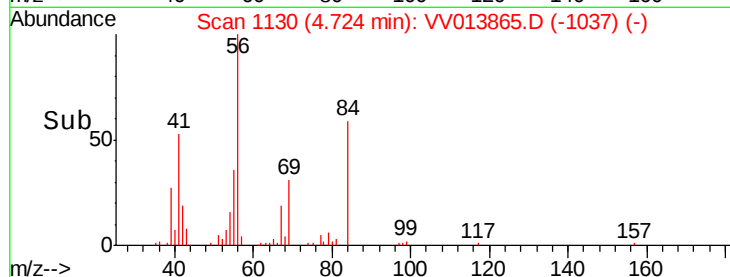
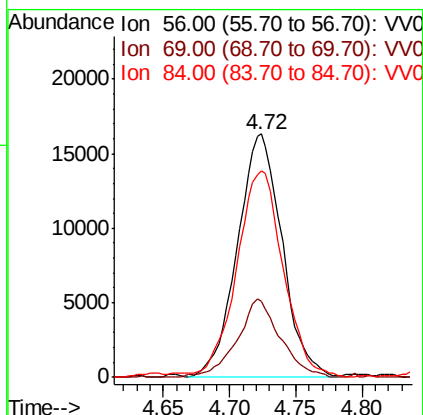
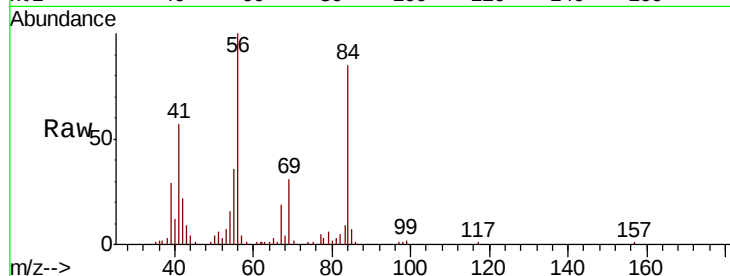




#29
Cyclohexane
Concen: 5.075 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. 0.00 min
Lab File: VV013865.D
Acq: 02 Dec 2019 11:47

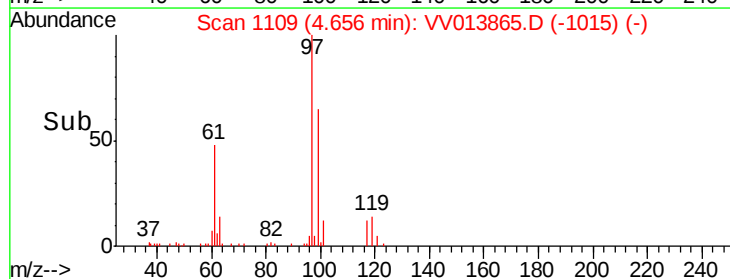
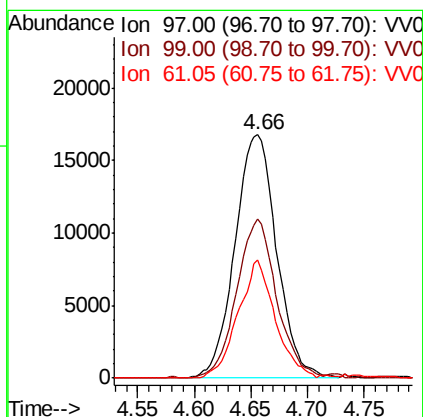
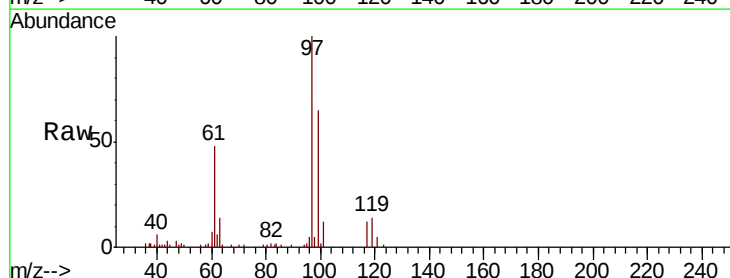
Instrument :
MSVOA_V
ClientSampleId :

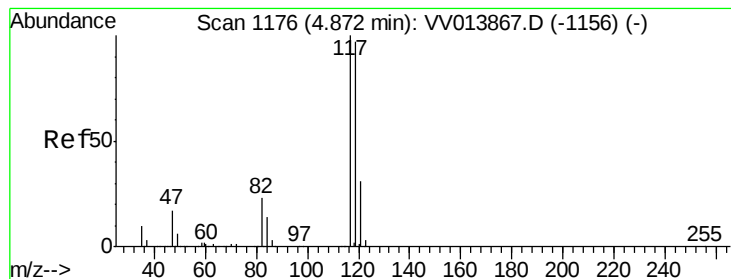
Tot Ion: 56 Resp: 38254
Ion Ratio Lower Upper
56 100
69 31.0 24.9 37.3
84 88.7 71.0 106.4



#30
1,1,1-Trichloroethane
Concen: 5.811 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. 0.00 min
Lab File: VV013865.D
Acq: 02 Dec 2019 11:47

Tgt Ion: 97 Resp: 43116
Ion Ratio Lower Upper
97 100
99 62.6 51.4 77.2
61 43.1 33.2 49.8





#31

Carbon tetrachloride

Concen: 5.709 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

Instrument :

MSVOA_V

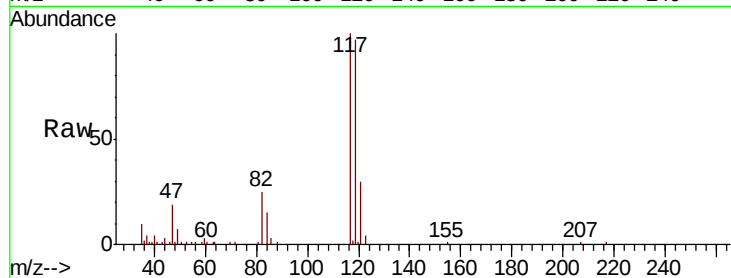
ClientSampleId :

Tot Ion:117 Resp: 37801

Ion Ratio Lower Upper

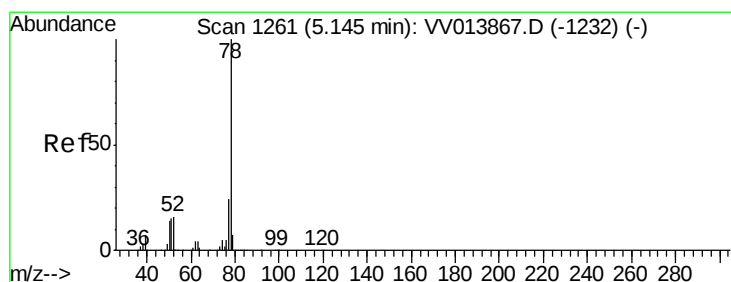
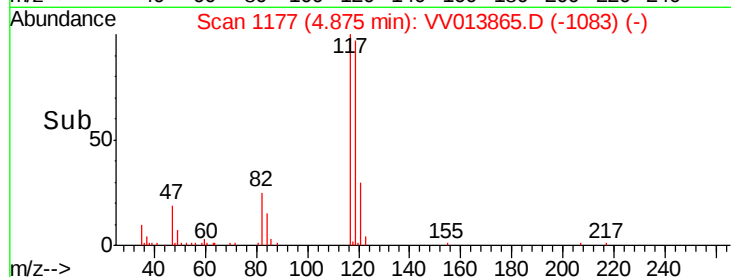
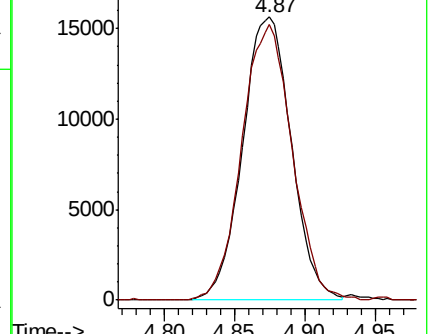
117 100

119 100.5 77.9 116.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 5.462 ug/L

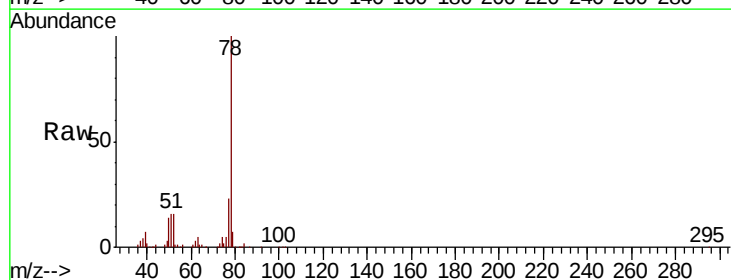
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

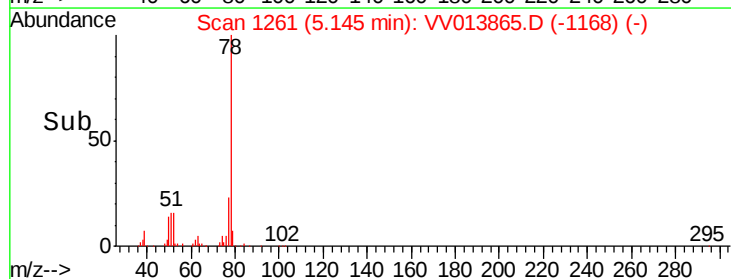
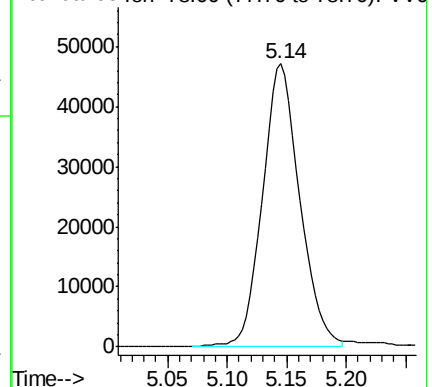
Lab File: VV013865.D

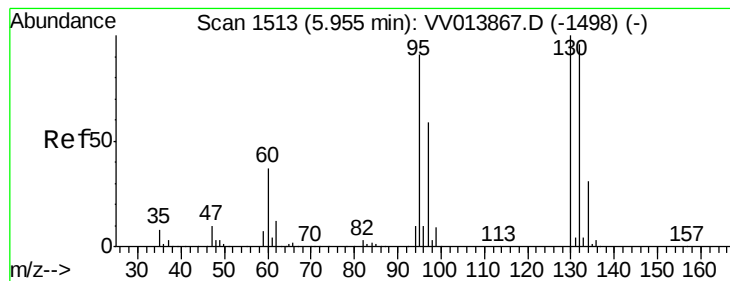
Acq: 02 Dec 2019 11:47

Tgt Ion: 78 Resp: 102454



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 5.673 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

Instrument :

MSVOA_V

ClientSampled :

Tot Ion: 95 Resp: 28475

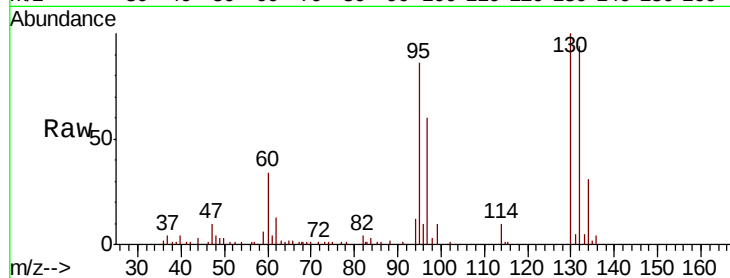
Ion Ratio Lower Upper

95 100

97 69.4 45.4 84.4

132 109.3 73.7 136.9

130 115.9 77.1 143.1

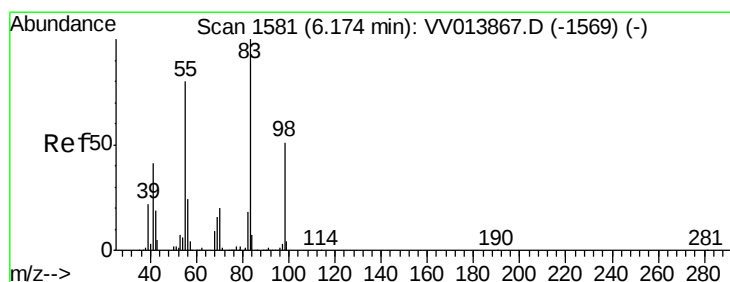
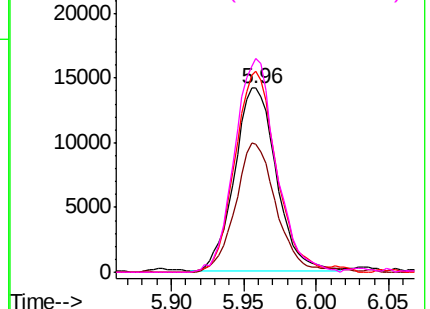
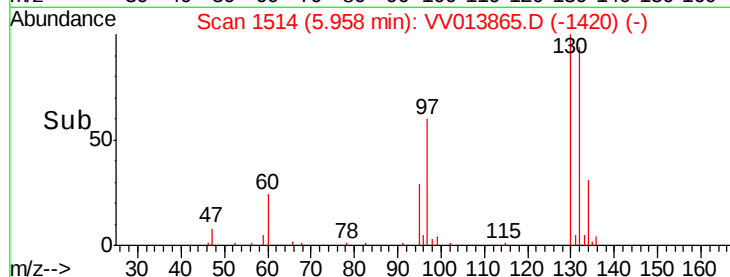


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 5.134 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

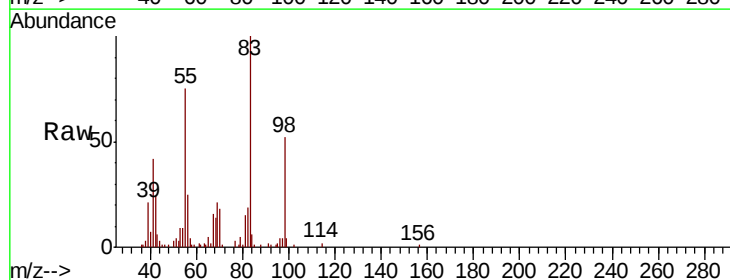
Tgt Ion: 83 Resp: 39396

Ion Ratio Lower Upper

83 100

55 76.9 61.0 91.4

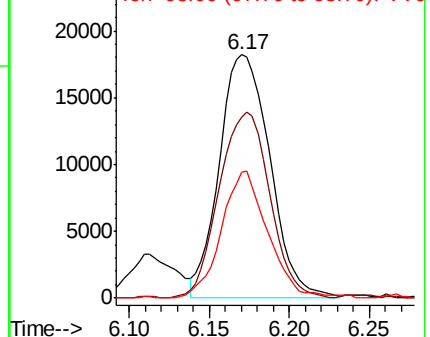
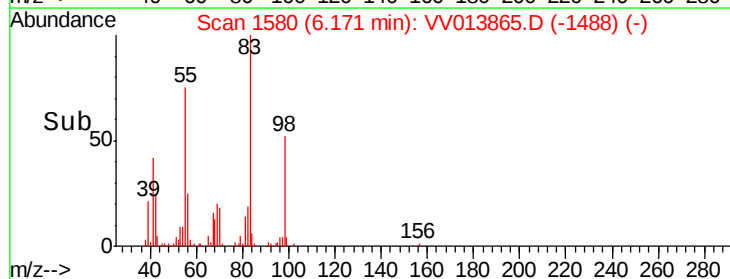
98 47.1 39.6 59.4

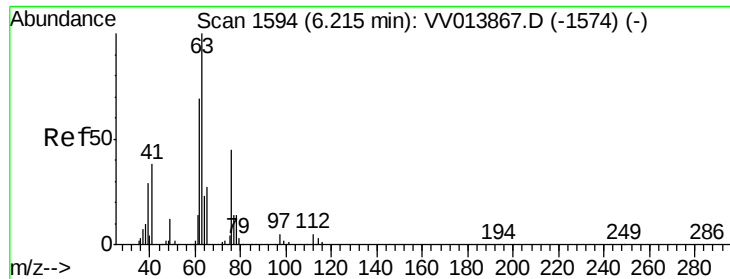


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 4.897 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

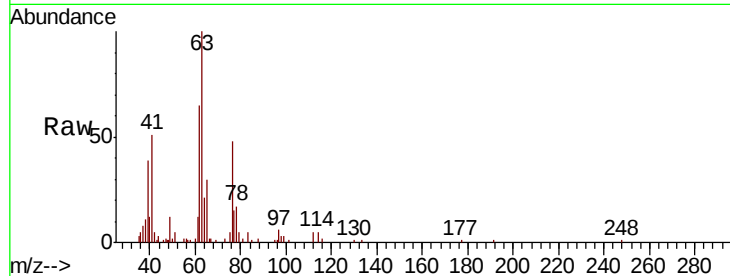
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 63 Resp: 23877

Ion Ratio Lower Upper

63 100

112 4.0 4.2 6.2#



Abundance Ion 63.00 (62.70 to 63.70): VV013867.D (-1574) (-)

Ion 112.00 (111.70 to 112.70): VV013867.D (-1574) (-)

6.22

15000

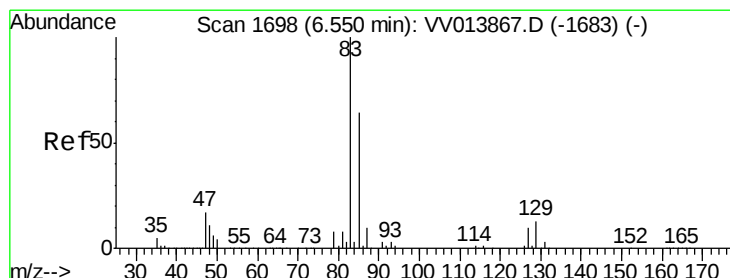
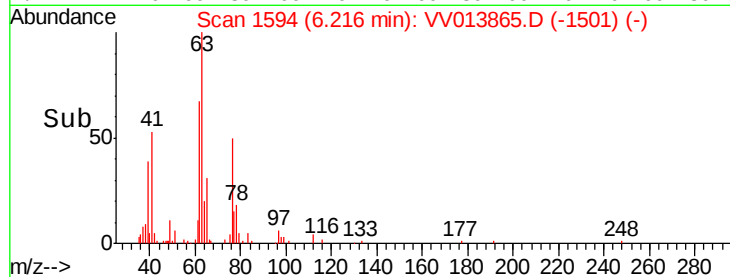
10000

5000

0

Time-->

6.15 6.20 6.25



#38

Bromodichloromethane

Concen: 5.567 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

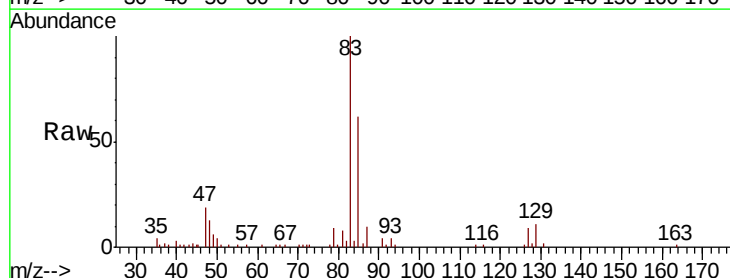
Tgt Ion: 83 Resp: 36028

Ion Ratio Lower Upper

83 100

85 62.4 44.8 83.2

127 8.7 7.7 11.5



Abundance Ion 83.00 (82.70 to 83.70): VV013867.D (-1683) (-)

Ion 85.00 (84.70 to 85.70): VV013867.D (-1683) (-)

Ion 127.00 (126.70 to 127.70): VV013867.D (-1683) (-)

6.55

25000

20000

15000

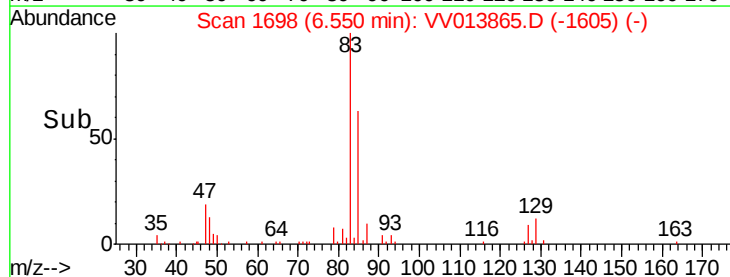
10000

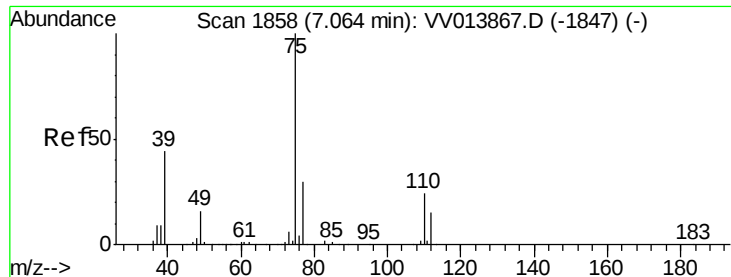
5000

0

Time-->

6.45 6.50 6.55 6.60 6.65



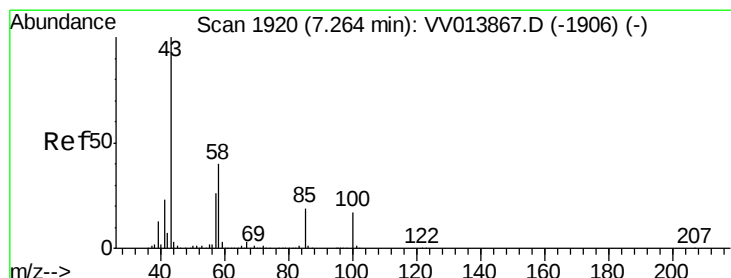
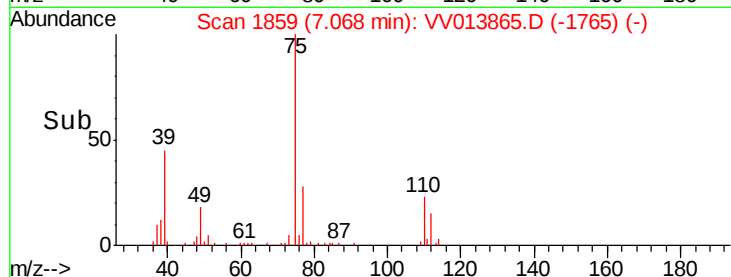
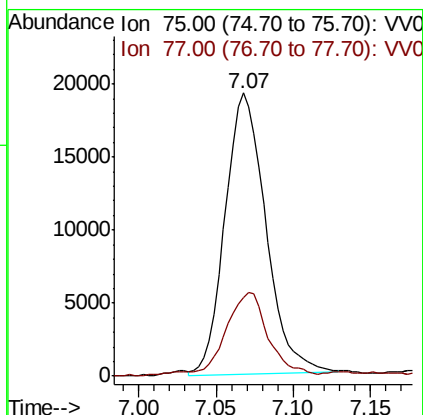
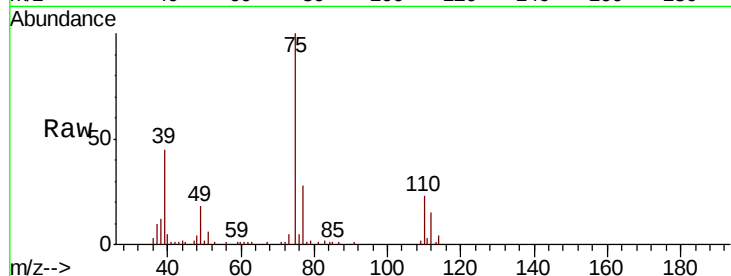


#39

cis-1,3-Dichloropropene
 Concen: 4.721 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV013865.D
 Acq: 02 Dec 2019 11:47

Instrument :
 MSVOA_V
 ClientSampleId :

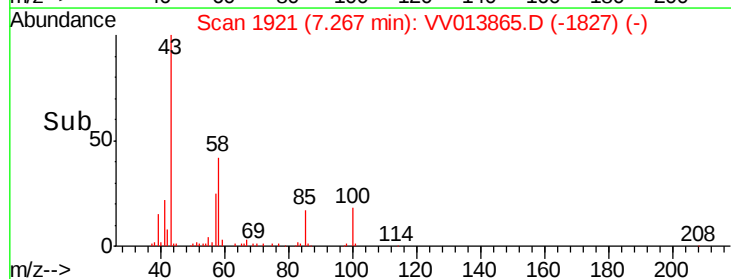
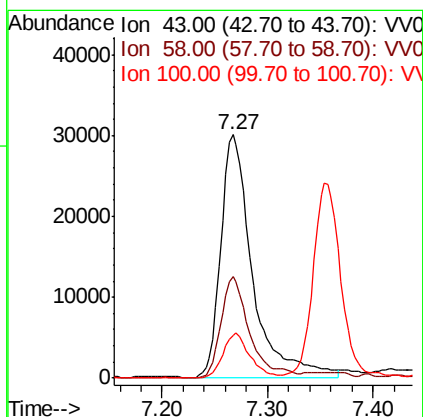
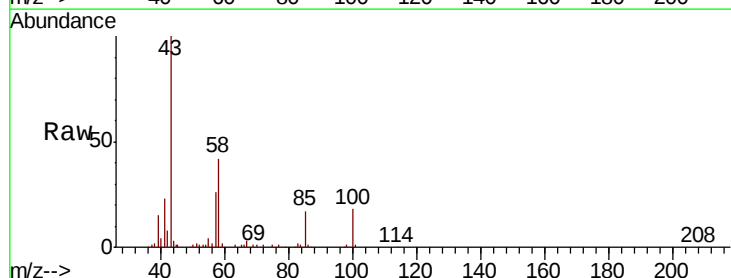
Tot Ion: 75 Resp: 35233
 Ion Ratio Lower Upper
 75 100
 77 27.9 21.6 40.2

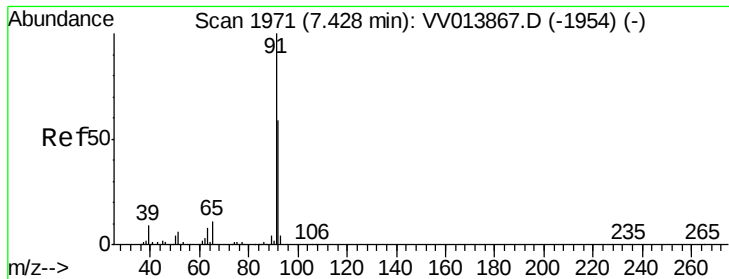


#40

4-Methyl-2-pentanone
 Concen: 10.189 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VV013865.D
 Acq: 02 Dec 2019 11:47

Tgt Ion: 43 Resp: 63187
 Ion Ratio Lower Upper
 43 100
 58 35.8 31.9 47.9
 100 15.8 13.7 20.5





#42

Toluene

Concen: 5.185 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

Instrument :

MSVOA_V

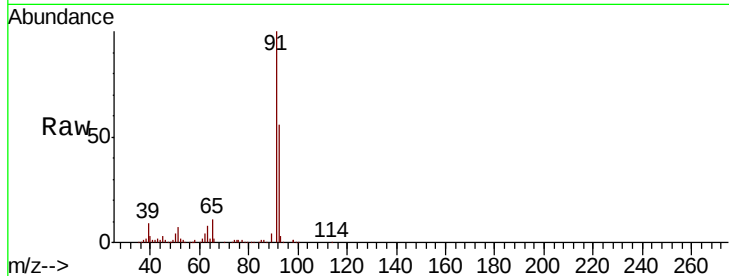
ClientSampleId :

Tot Ion: 91 Resp: 101007

Ion Ratio Lower Upper

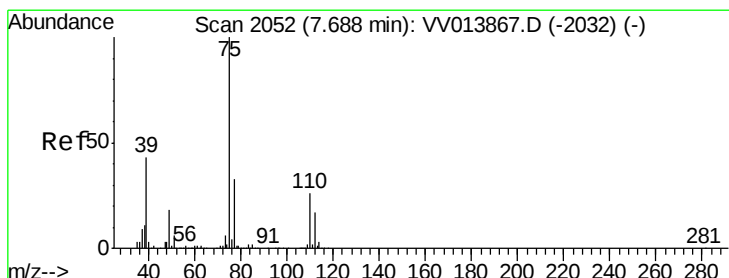
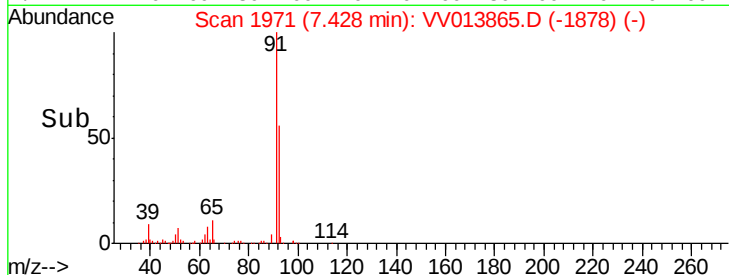
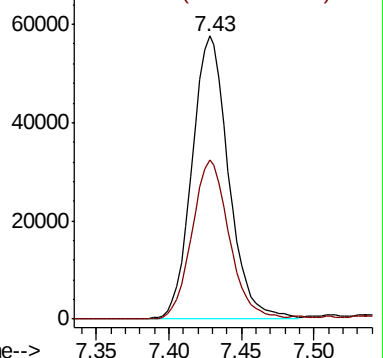
91 100

92 56.2 41.4 77.0



Abundance Ion 91.00 (90.70 to 91.70): VV013867.D (-1954) (-)

Ion 92.00 (91.70 to 92.70): VV013867.D (-1954) (-)



#44

trans-1,3-Dichloropropene

Concen: 5.195 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV013865.D

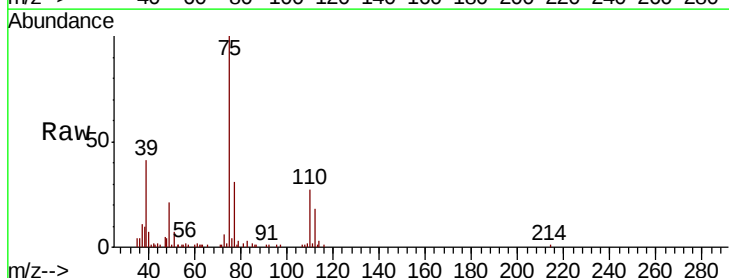
Acq: 02 Dec 2019 11:47

Tgt Ion: 75 Resp: 33637

Ion Ratio Lower Upper

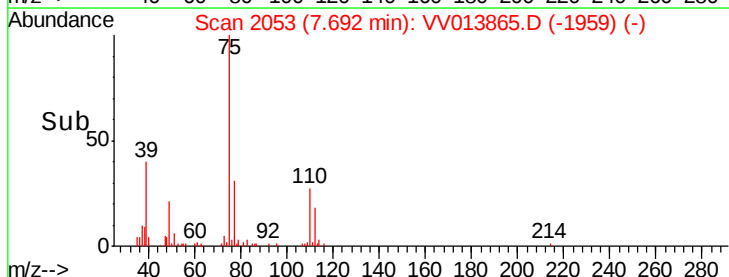
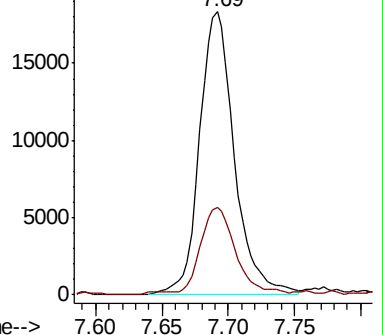
75 100

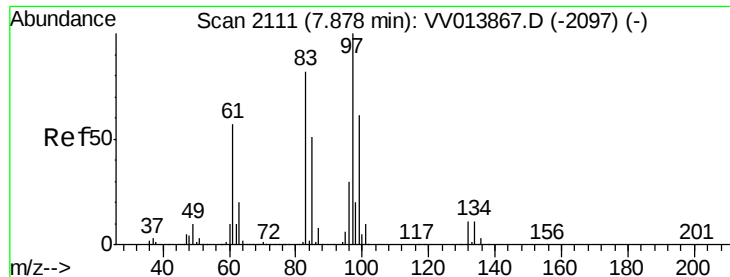
77 30.8 22.9 42.5



Abundance Ion 75.00 (74.70 to 75.70): VV013867.D (-2032) (-)

Ion 77.00 (76.70 to 77.70): VV013867.D (-2032) (-)

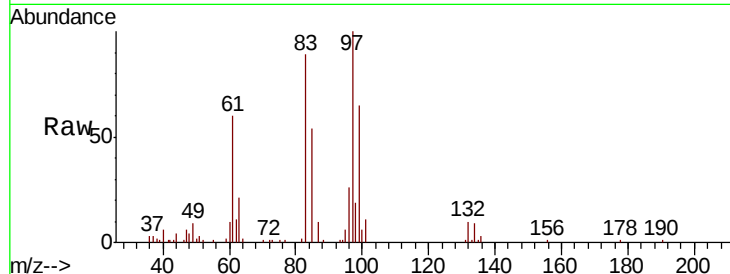




#45
 1,1,2-Trichloroethane
 Concen: 5.365 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. 0.00 min
 Lab File: VV013865.D
 Acq: 02 Dec 2019 11:47

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	97	Resp:	24770
Ion	Ratio	Lower	Upper
97	100		
99	65.4	43.0	80.0
83	89.4	57.5	106.9
85	53.8	35.6	66.2



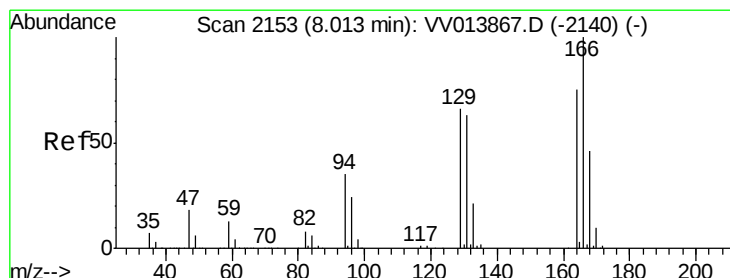
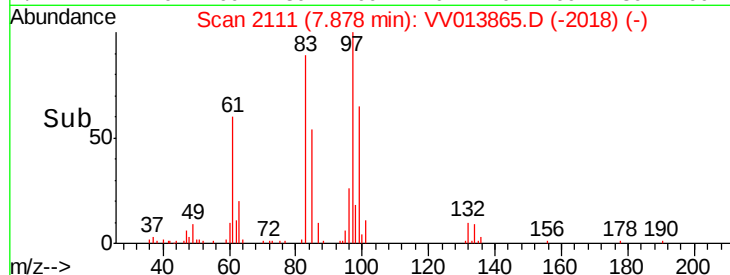
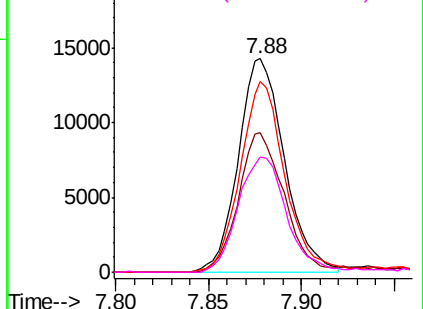
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

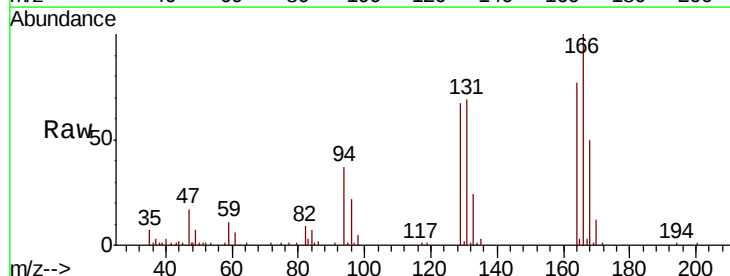
Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46
 Tetrachloroethene
 Concen: 5.788 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV013865.D
 Acq: 02 Dec 2019 11:47

Tgt Ion:	164	Resp:	25033
Ion	Ratio	Lower	Upper
164	100		
129	86.3	61.7	114.7
131	89.1	58.4	108.6
166	129.2	93.4	173.6



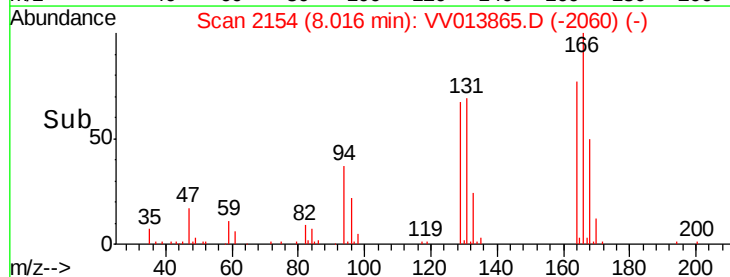
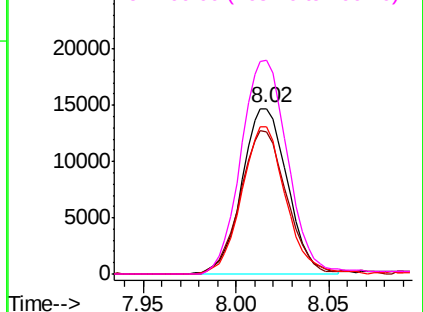
Abundance

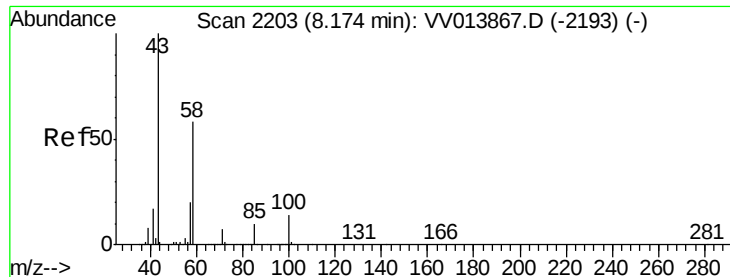
Ion 164.00 (163.70 to 164.70): V

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

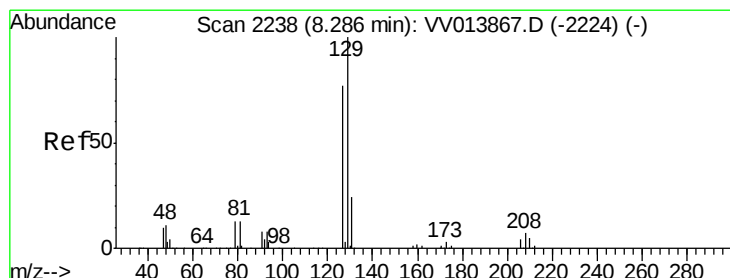
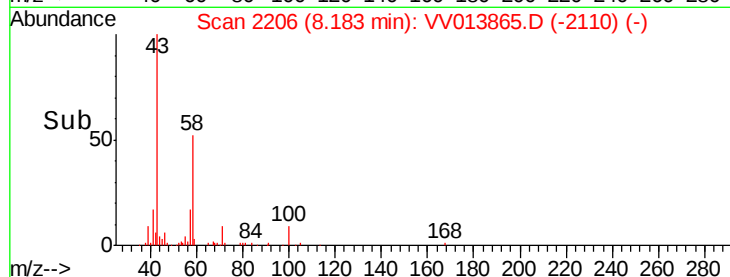
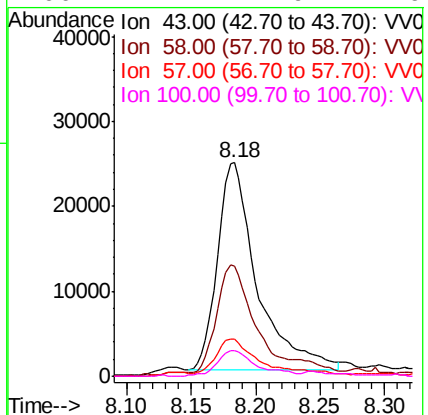
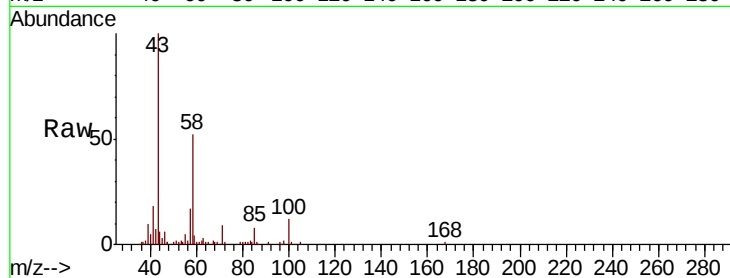




#48
2-Hexanone
Concen: 10.675 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.01 min
Lab File: VV013865.D
Acq: 02 Dec 2019 11:47

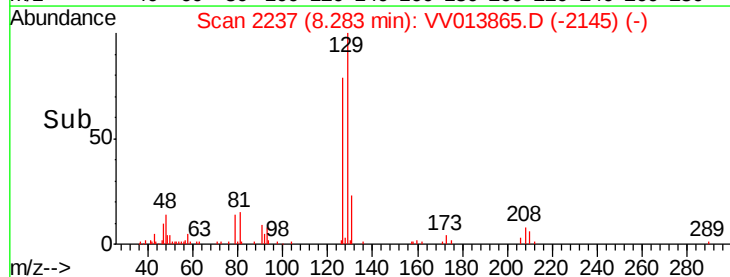
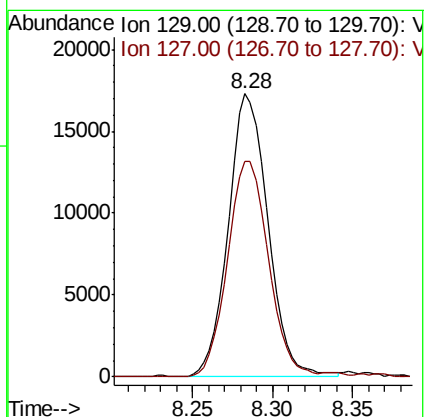
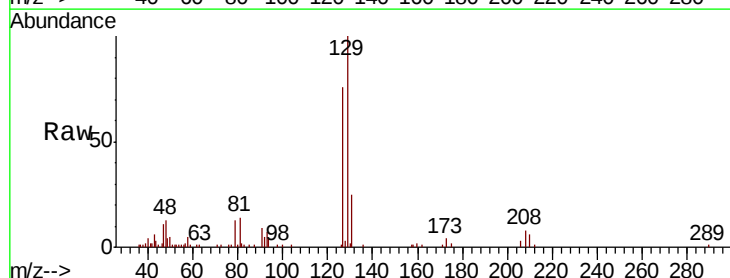
Instrument :
MSVOA_V
ClientSampleId :

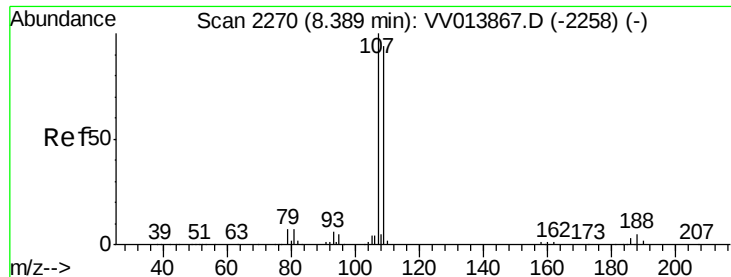
Tot Ion: 43 Resp: 51956
Ion Ratio Lower Upper
43 100
58 55.9 48.4 72.6
57 16.3 16.6 24.8#
100 12.4 11.9 17.9



#49
Dibromochloromethane
Concen: 5.470 ug/L
RT: 8.28 min Scan# 2237
Delta R.T. -0.00 min
Lab File: VV013865.D
Acq: 02 Dec 2019 11:47

Tgt Ion: 129 Resp: 29269
Ion Ratio Lower Upper
129 100
127 76.0 53.7 99.7

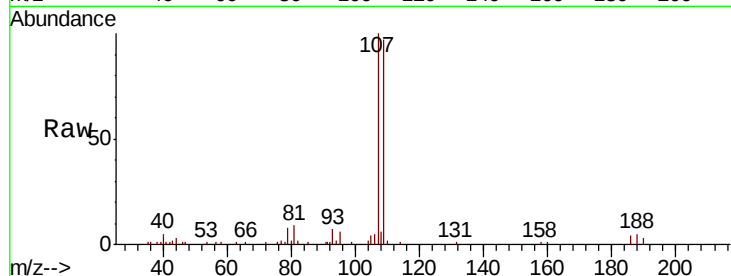




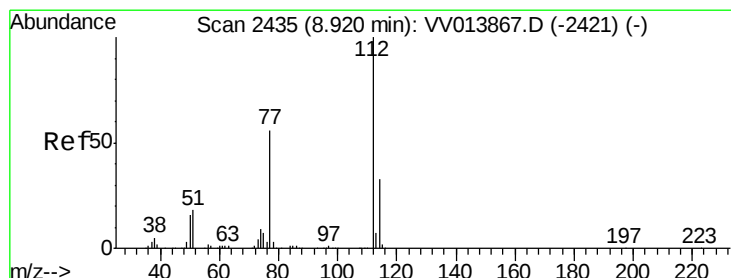
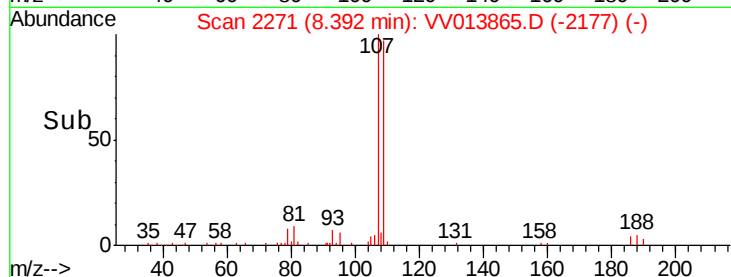
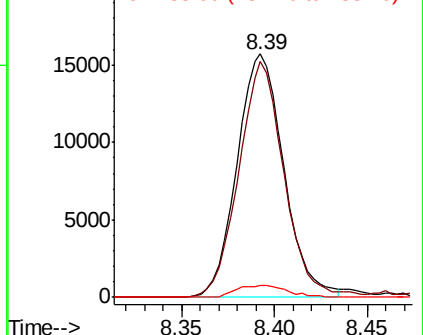
#50
1,2-Dibromoethane
Concen: 5.645 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV013865.D
Acq: 02 Dec 2019 11:47

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:107 Resp: 27585
Ion Ratio Lower Upper
107 100
109 96.7 65.9 122.5
188 4.8 3.6 5.4

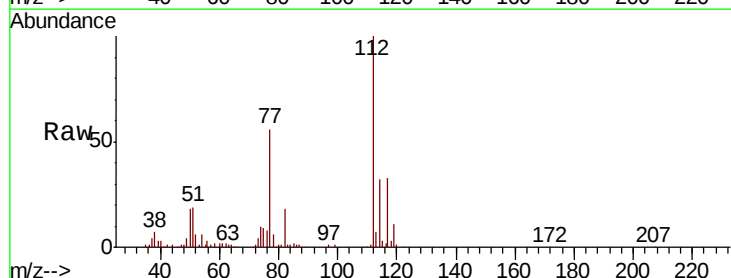


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

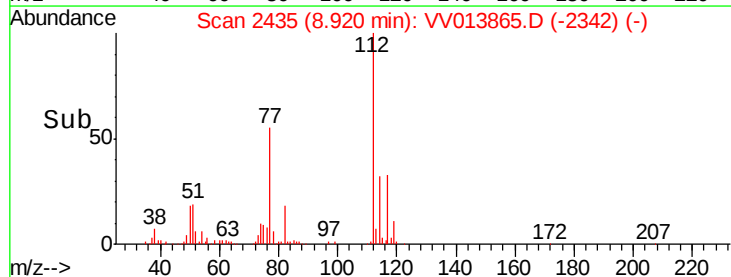
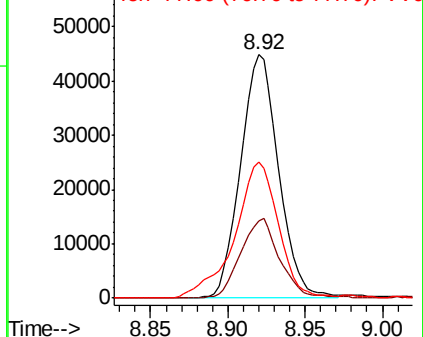


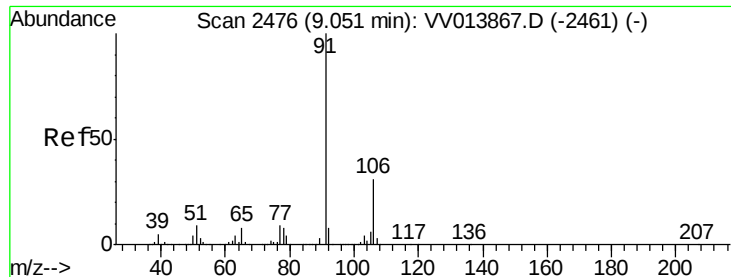
#51
Chlorobenzene
Concen: 5.879 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. 0.00 min
Lab File: VV013865.D
Acq: 02 Dec 2019 11:47

Tgt Ion:112 Resp: 76830
Ion Ratio Lower Upper
112 100
114 32.0 23.2 43.2
77 55.7 45.0 67.4



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: 5.335 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

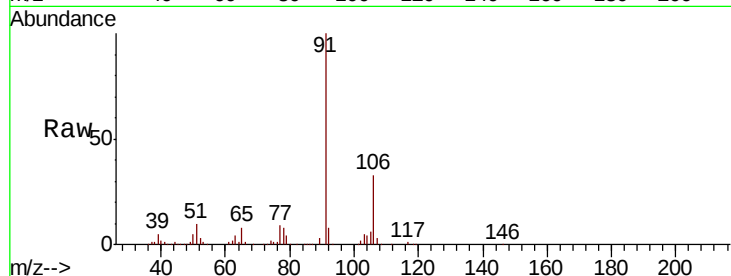
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 113127

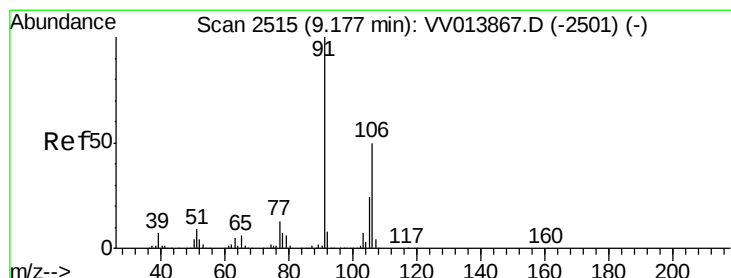
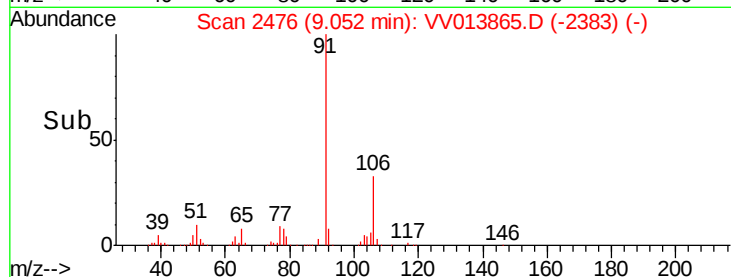
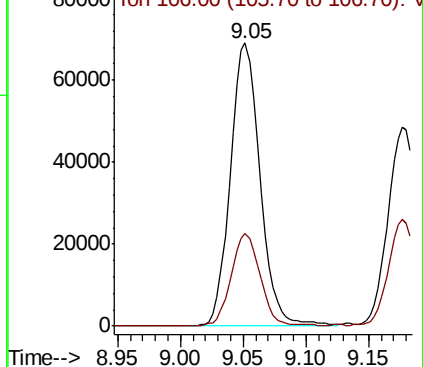
Ion Ratio Lower Upper

91 100

106 32.7 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): VV013865.D (-2383) (-)



#53

m,p-Xylene

Concen: 5.107 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV013865.D

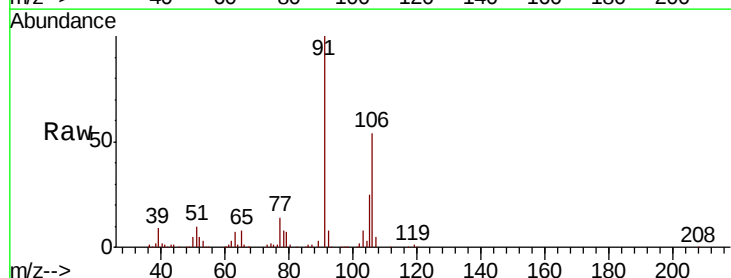
Acq: 02 Dec 2019 11:47

Tgt Ion: 106 Resp: 41347

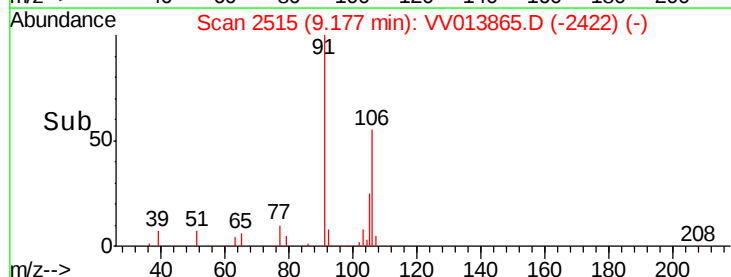
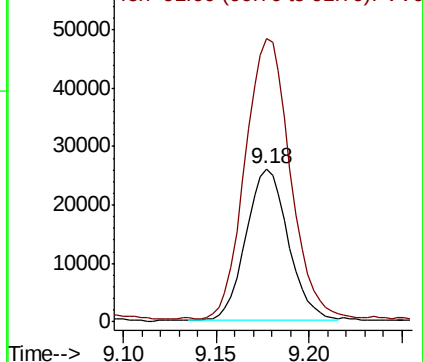
Ion Ratio Lower Upper

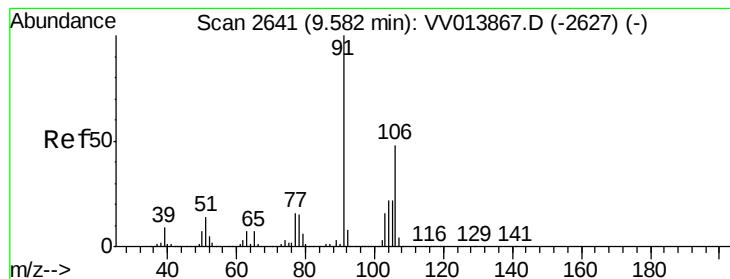
106 100

91 185.1 139.4 259.0



Abundance Ion 106.00 (105.70 to 106.70): VV013865.D (-2422) (-)





#54

o-xylene

Concen: 5.007 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

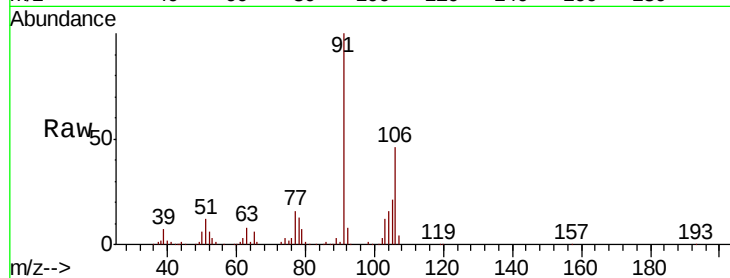
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 39370

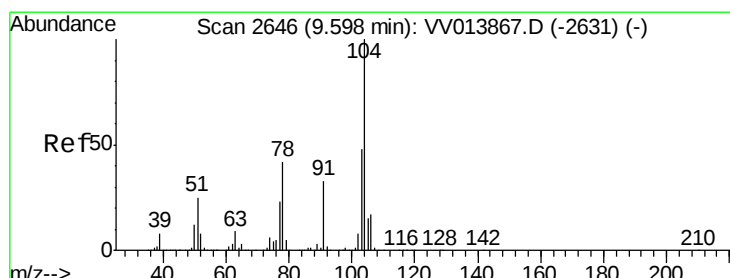
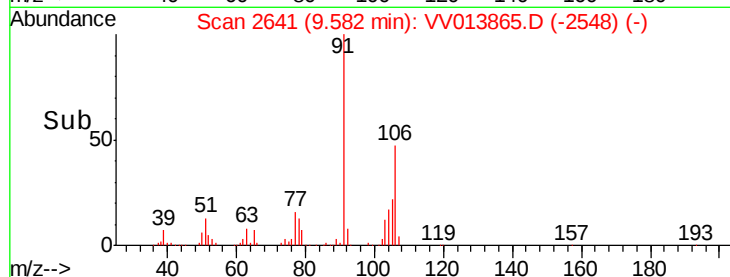
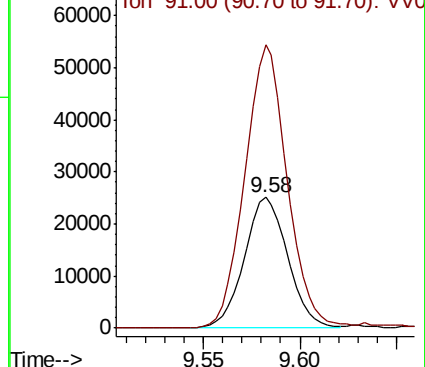
Ion Ratio Lower Upper

106 100

91 216.3 147.1 273.1



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



#55

Styrene

Concen: 4.755 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV013865.D

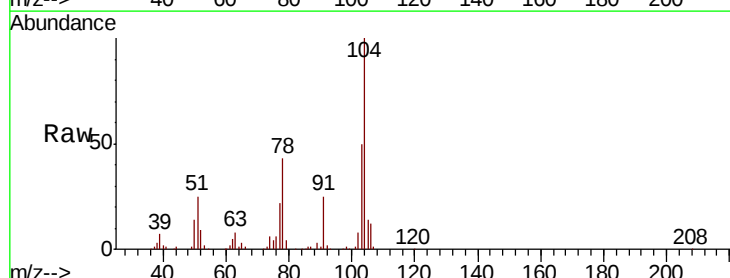
Acq: 02 Dec 2019 11:47

Tgt Ion:104 Resp: 64936

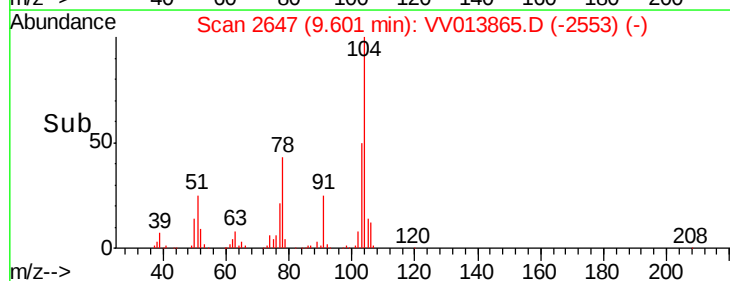
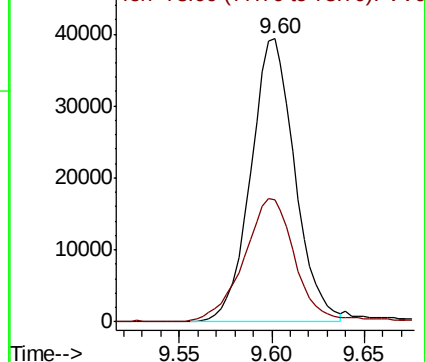
Ion Ratio Lower Upper

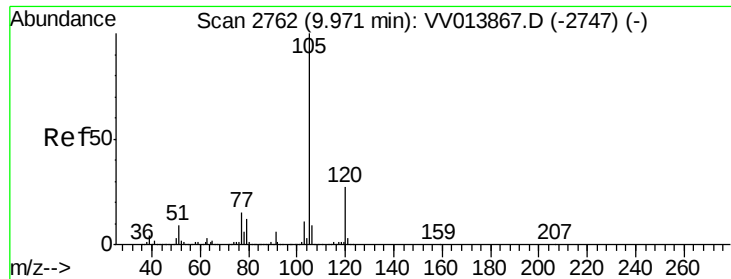
104 100

78 43.2 29.3 54.5



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





#56

Isopropylbenzene

Concen: 5.052 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

Instrument :

MSVOA_V

ClientSampleId :

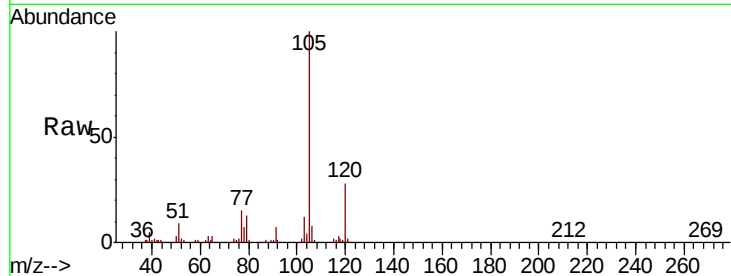
Tot Ion:105 Resp: 105896

Ion Ratio Lower Upper

105 100

120 27.2 21.4 32.2

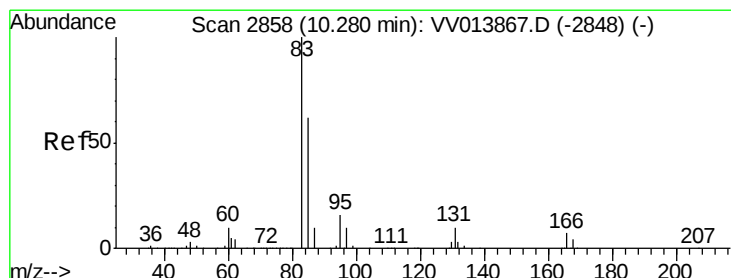
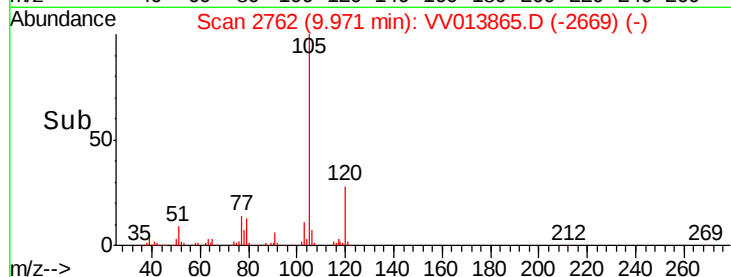
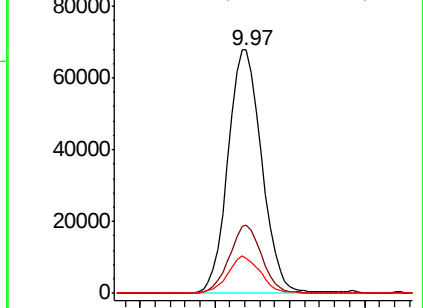
77 15.1 12.0 18.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.499 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

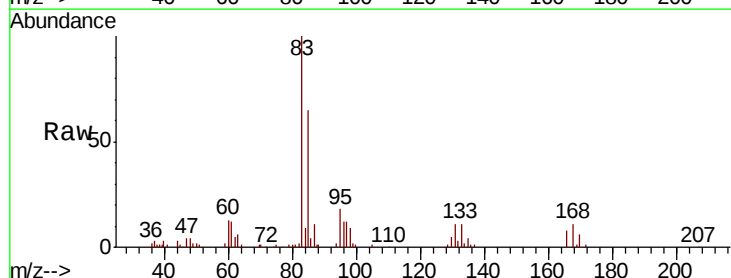
Tgt Ion: 83 Resp: 39024

Ion Ratio Lower Upper

83 100

85 65.0 44.1 81.9

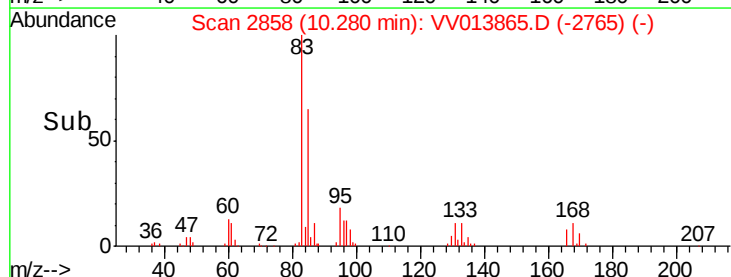
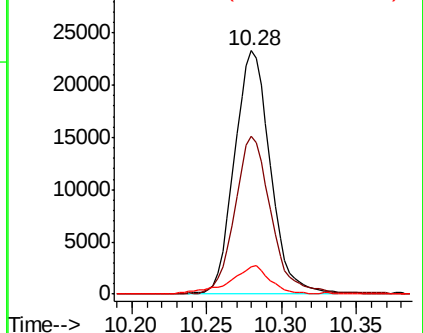
131 11.4 8.8 13.2

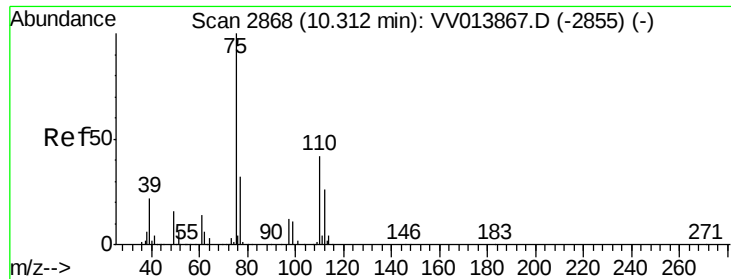


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 5.833 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

Instrument :

MSVOA_V

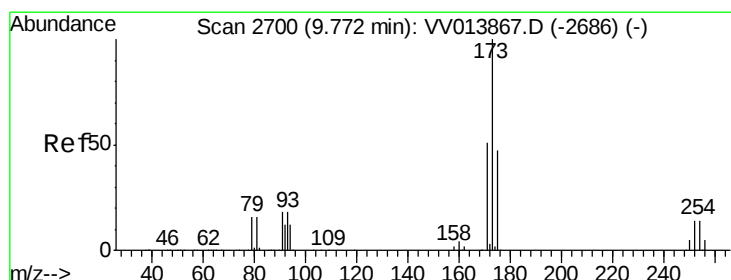
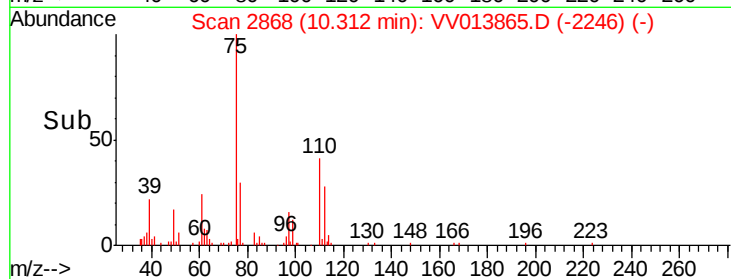
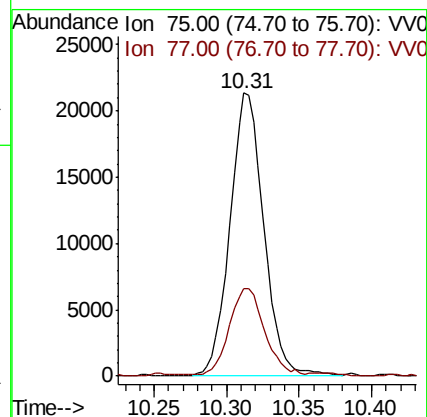
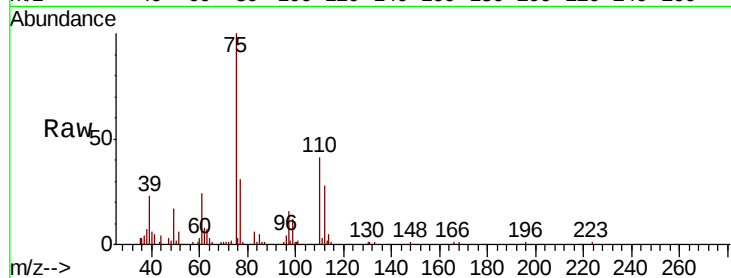
ClientSampleId :

Tot Ion: 75 Resp: 34504

Ion Ratio Lower Upper

75 100

77 30.8 25.8 38.8



#61

Bromoform

Concen: 5.715 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

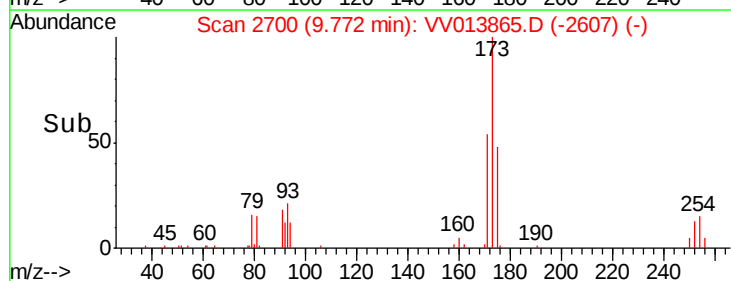
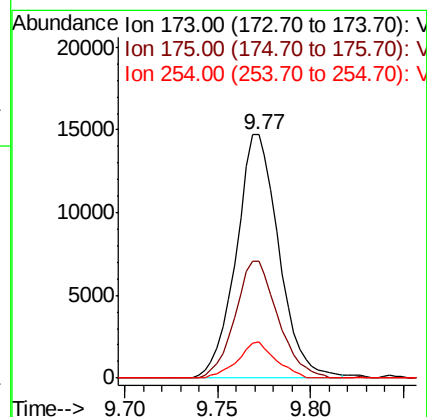
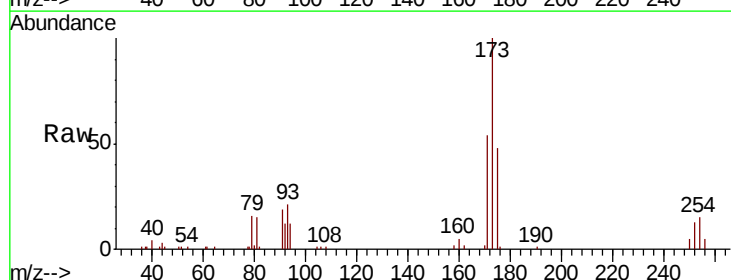
Tgt Ion: 173 Resp: 23595

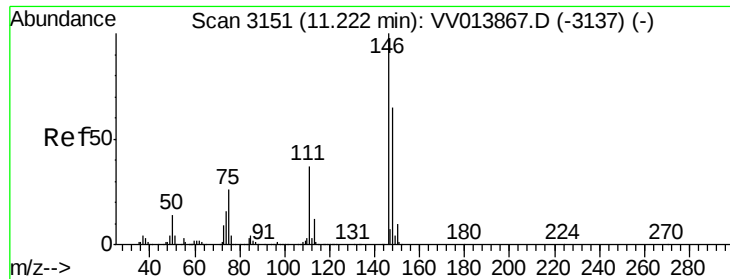
Ion Ratio Lower Upper

173 100

175 48.0 38.4 57.6

254 13.3 10.5 15.7

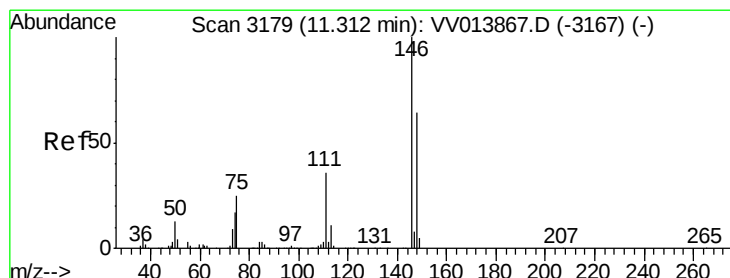
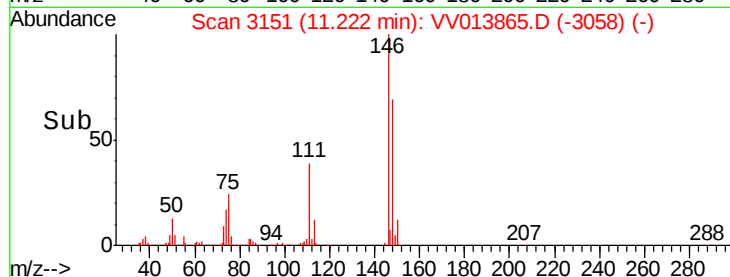
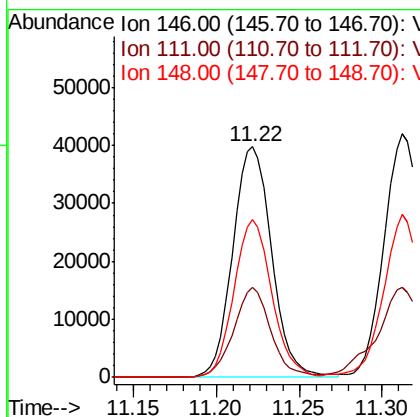
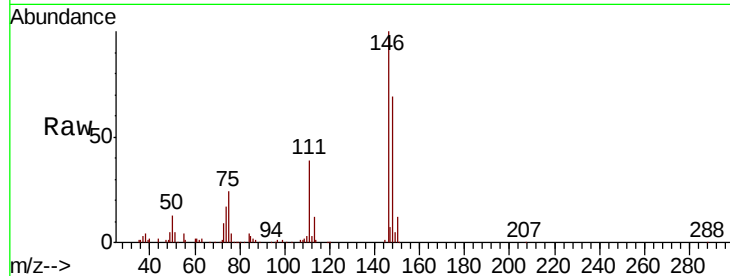




#62
 1,3-Dichlorobenzene
 Concen: 6.041 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV013865.D
 Acq: 02 Dec 2019 11:47

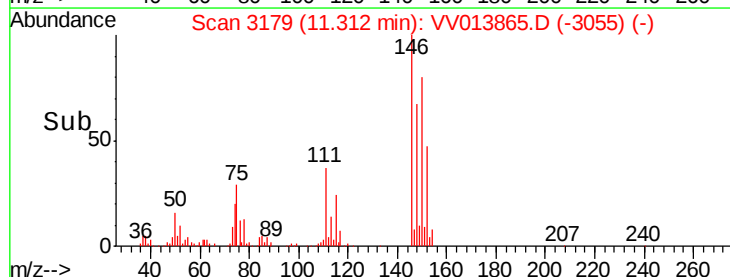
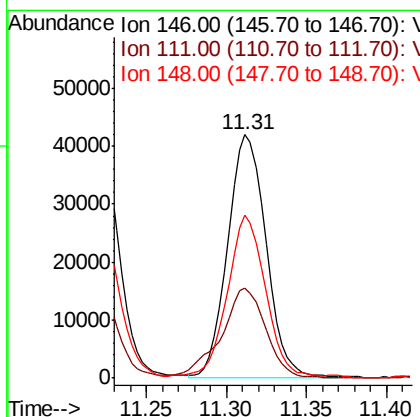
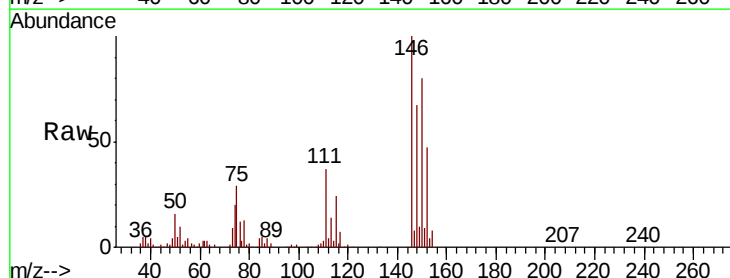
Instrument :
 MSVOA_V
 ClientSampleId :

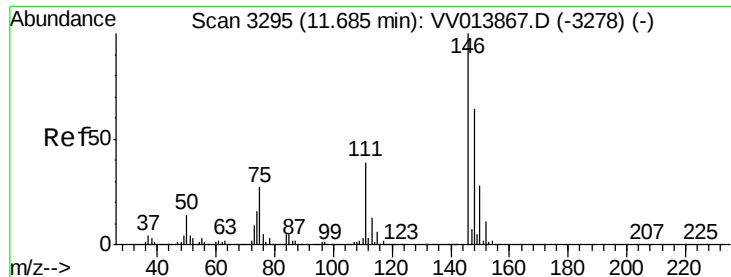
Tot Ion:146 Resp: 65014
 Ion Ratio Lower Upper
 146 100
 111 39.2 25.8 48.0
 148 68.5 45.2 84.0



#63
 1,4-Dichlorobenzene
 Concen: 6.111 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: VV013865.D
 Acq: 02 Dec 2019 11:47

Tgt Ion:146 Resp: 68365
 Ion Ratio Lower Upper
 146 100
 111 36.7 25.4 47.2
 148 66.7 44.9 83.5

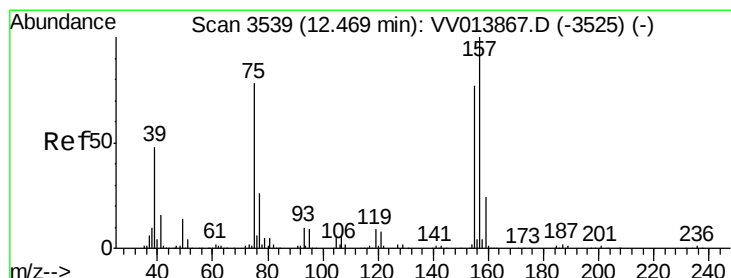
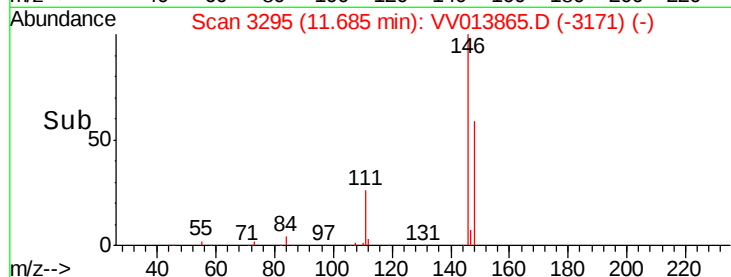
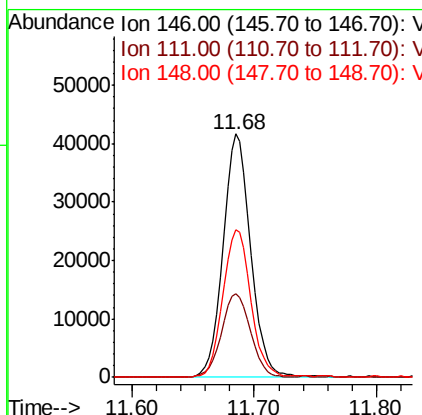
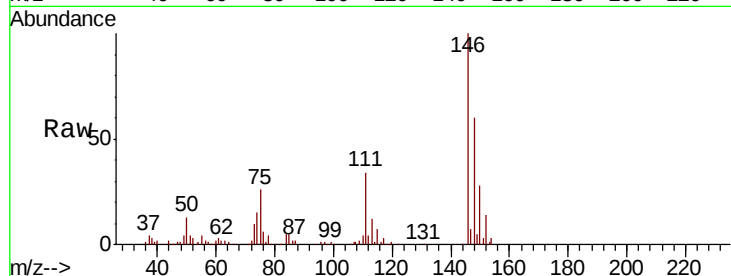




#65
 1,2-Dichlorobenzene
 Concen: 6.156 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV013865.D
 Acq: 02 Dec 2019 11:47

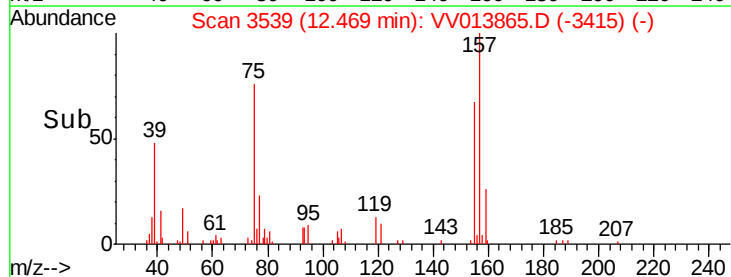
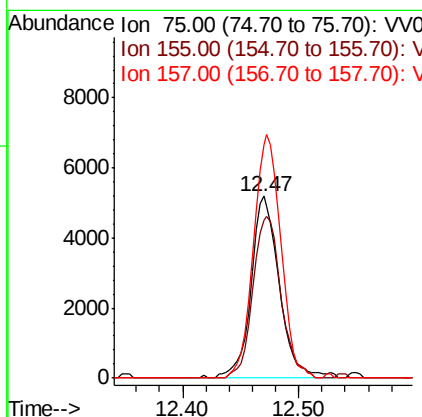
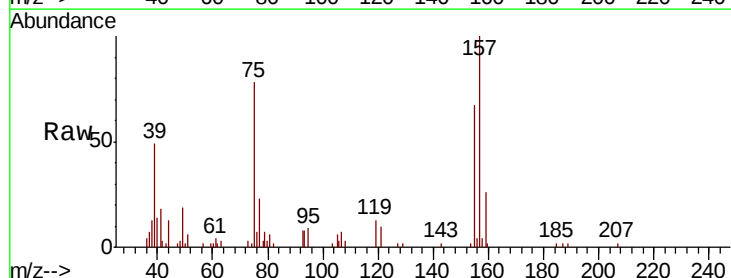
Instrument :
 MSVOA_V
 ClientSampled :

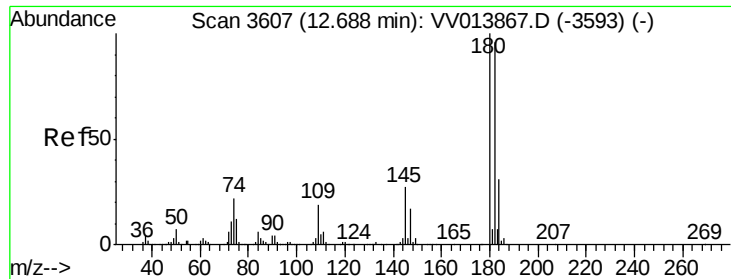
Tot Ion	Ratio	Lower	Upper
146	100		
111	34.4	31.4	47.0
148	60.4	51.5	77.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.952 ug/L
 RT: 12.47 min Scan# 3539
 Delta R.T. 0.00 min
 Lab File: VV013865.D
 Acq: 02 Dec 2019 11:47

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.7	78.6	117.8
157	128.6	102.6	153.8

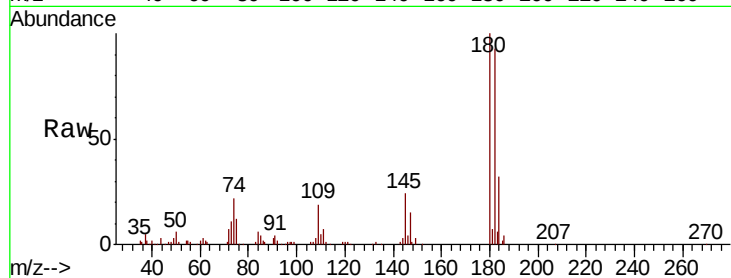




#67
 1,3,5-Trichlorobenzene
 Concen: 6.288 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV013865.D
 Acq: 02 Dec 2019 11:47

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion	180	Resp	53090
Ion Ratio	Lower	Upper	
180	100		
182	93.7	76.2	114.4
184	31.3	24.2	36.4
145	25.5	21.1	31.7



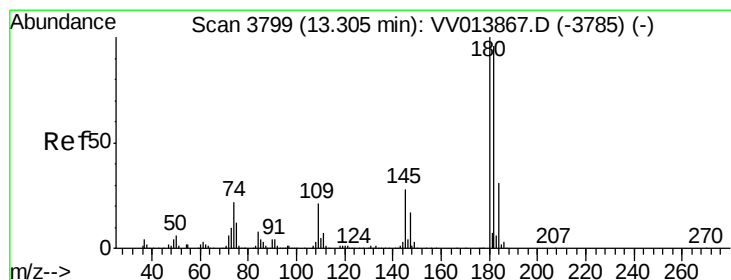
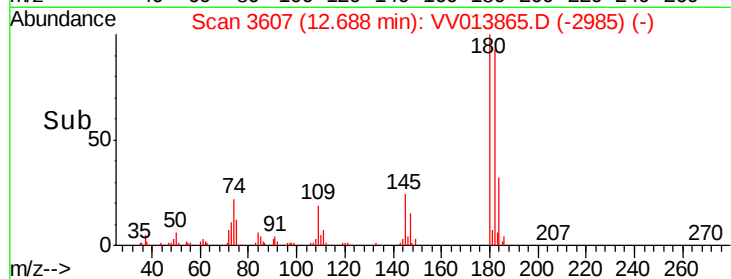
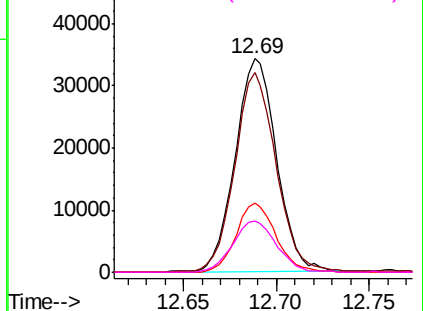
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

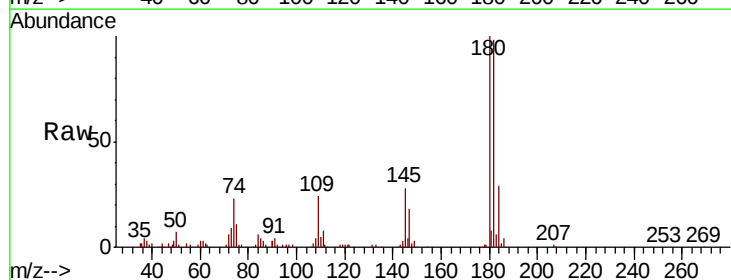
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 6.585 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV013865.D
 Acq: 02 Dec 2019 11:47

Tgt Ion	180	Resp	48934
Ion Ratio	Lower	Upper	
180	100		
182	96.4	76.2	114.4
145	27.0	21.9	32.9

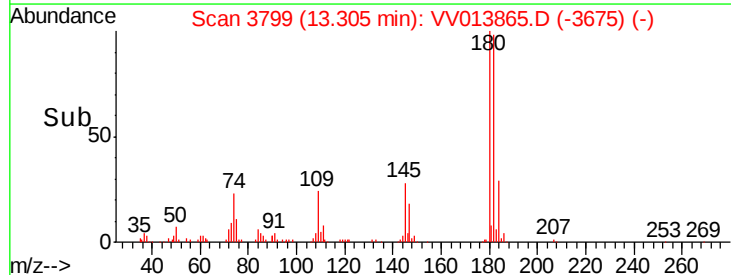
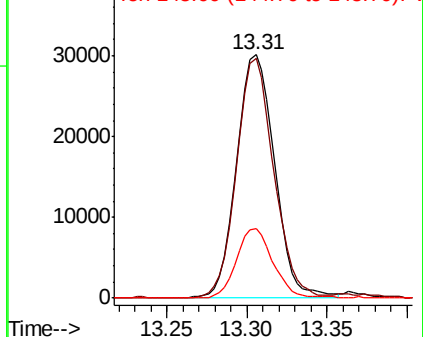


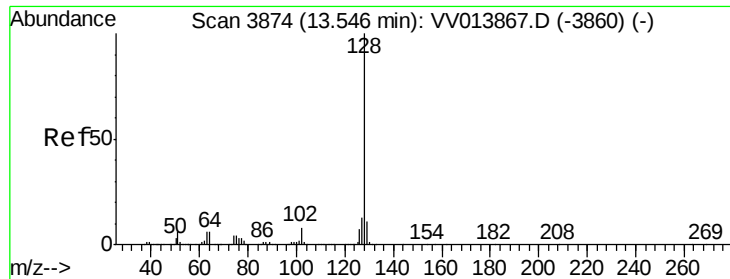
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 6.791 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

Instrument :

MSVOA_V

ClientSampled :

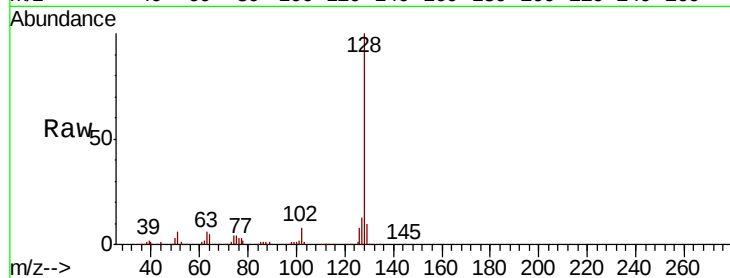
Tot Ion:128 Resp: 134835

Ion Ratio Lower Upper

128 100

127 13.4 10.5 15.7

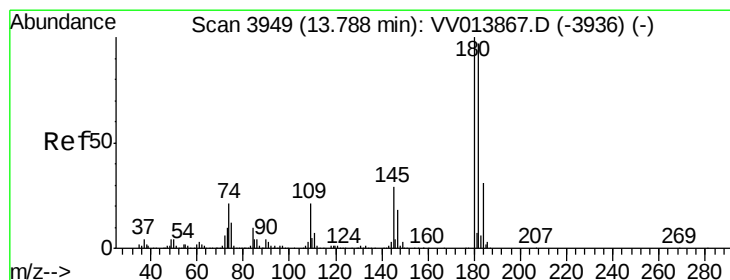
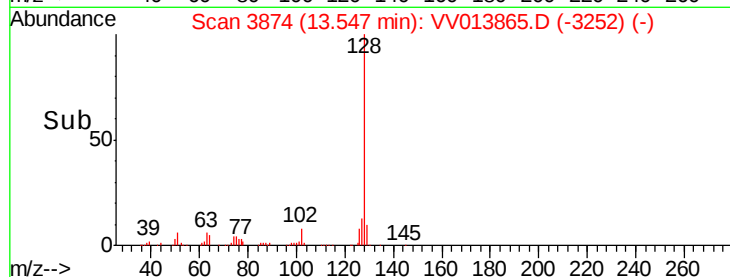
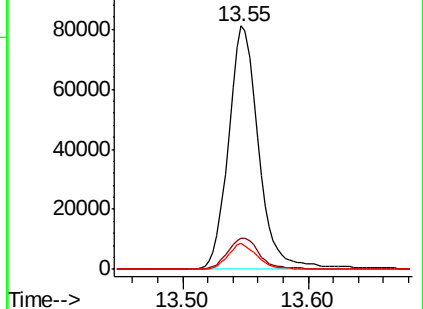
129 10.0 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 6.853 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV013865.D

Acq: 02 Dec 2019 11:47

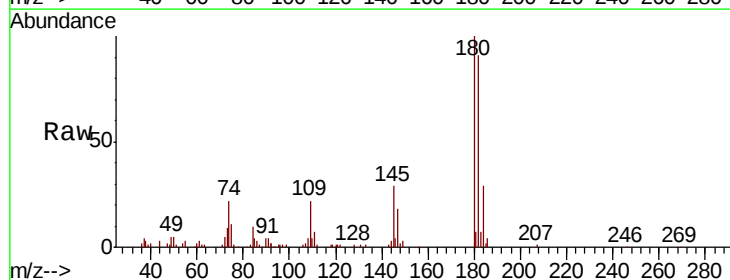
Tgt Ion:180 Resp: 54352

Ion Ratio Lower Upper

180 100

182 92.6 77.0 115.4

145 29.0 22.6 34.0



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

