

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112019\
 Data File : VW014089.D
 Acq On : 20 Nov 2019 16:30
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 21 03:40:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM111119S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Nov 21 03:37:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	330375	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	318017	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	195261	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	110178	20.90	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.60%
7) Chloroethane-d5	2.89	69	90566	21.19	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.76%
10) 1,1-Dichloroethene-d2	4.01	63	232426	21.49	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	85.96%
20) 2-Butanone-d5	7.07	46	78458	51.24	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	102.48%
24) Chloroform-d	7.65	84	240970	23.72	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.88%
26) 1,2-Dichloroethane-d4	8.31	65	124108	24.30	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.20%
29) Benzene-d6	8.27	84	487664	21.61	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	86.44%
33) 1,2-Dichloropropane-d6	9.27	67	146269	22.13	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	88.52%
37) Toluene-d8	10.32	98	462131	21.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	86.40%
38) trans-1,3-Dichloropropene-	10.57	79	64540	22.80	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	91.20%
39) 2-Hexanone-d5	10.92	63	64628	51.56	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.12%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	127203	25.49	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	101.96%
61) 1,2-Dichlorobenzene-d4	13.85	152	166559	21.23	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	84.92%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	76927	19.579	ug/L 99
3) Chloromethane	2.21	50	70032	20.067	ug/L 99
5) Vinyl chloride	2.36	62	133899	24.573	ug/L 98
6) Bromomethane	2.78	94	80578	23.884	ug/L 98
8) Chloroethane	2.92	64	76829	23.703	ug/L 93
9) Trichlorofluoromethane	3.25	101	81441	21.918	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	136925	24.957	ug/L 98
12) 1,1-Dichloroethene	4.04	96	133859	24.001	ug/L 96
13) Acetone	4.12	43	55258	35.462	ug/L 98
14) Carbon disulfide	4.39	76	373025	23.500	ug/L 98
15) Methyl Acetate	4.67	43	66730	26.468	ug/L 100
16) Methylene chloride	4.92	84	144448	22.711	ug/L 97
17) Methyl tert-butyl Ether	5.42	73	177189	24.627	ug/L 99
18) trans-1,2-Dichloroethene	5.42	96	141397	24.312	ug/L 97
19) 1,1-Dichloroethane	6.21	63	248858	25.403	ug/L 99
21) 2-Butanone	7.17	43	88524	44.220	ug/L 99
22) cis-1,2-Dichloroethene	7.17	96	152543	24.925	ug/L 96

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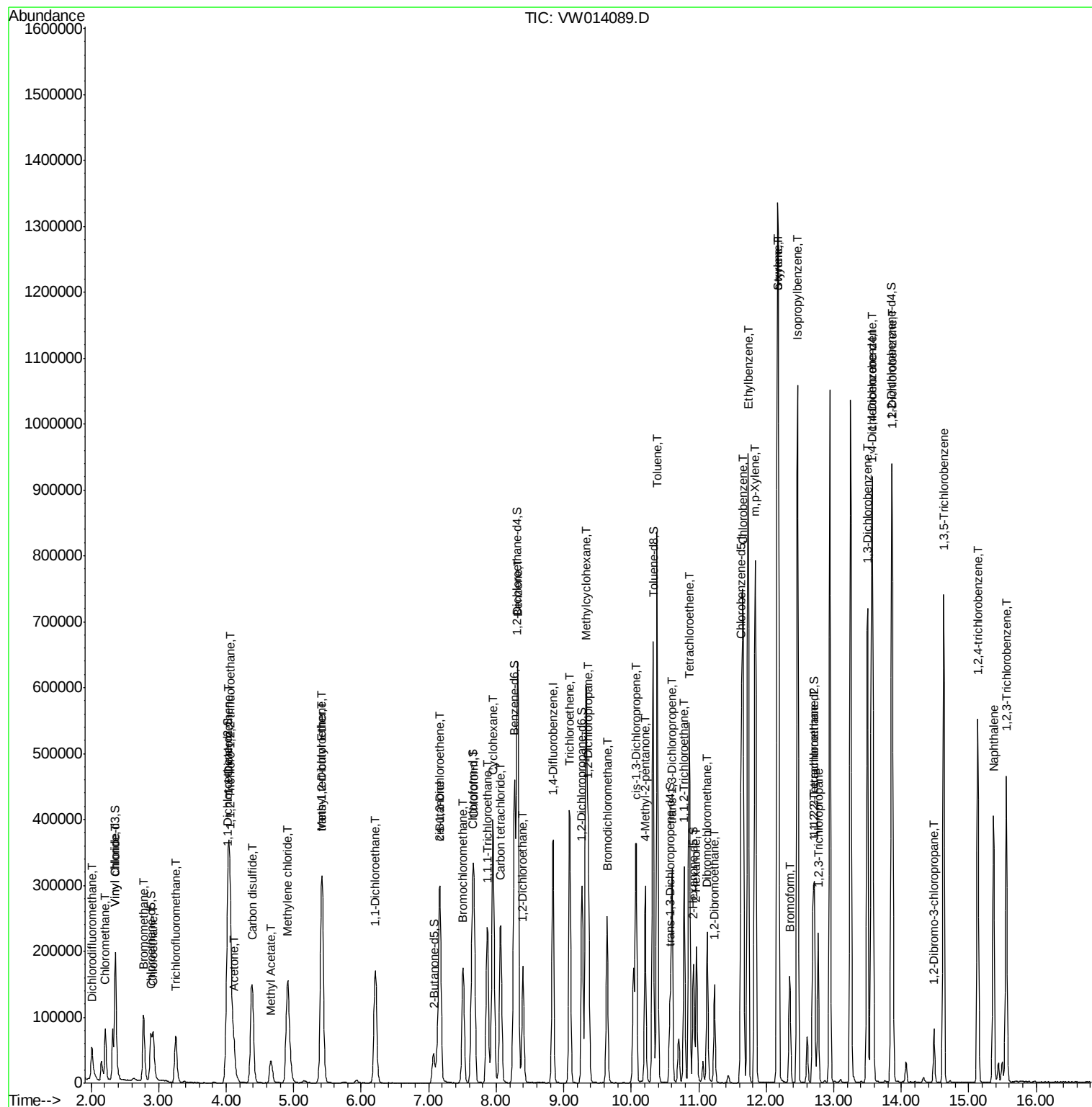
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	68668	25.560	ug/L	97
25) Chloroform	7.67	83	251902	26.185	ug/L	100
27) 1,2-Dichloroethane	8.40	62	159235	27.339	ug/L	97
30) Cyclohexane	7.95	56	236510	23.239	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	197610	24.795	ug/L	99
32) Carbon tetrachloride	8.06	117	189835	24.813	ug/L	100
34) Benzene	8.32	78	574494	24.628	ug/L	100
35) Trichloroethene	9.09	95	149344	24.001	ug/L	99
36) Methylcyclohexane	9.33	83	262295	23.510	ug/L	99
40) 1,2-Dichloropropane	9.37	63	141633	25.223	ug/L	100
41) Bromodichloromethane	9.64	83	179105	26.383	ug/L	100
42) cis-1,3-Dichloropropene	10.07	75	224353	25.318	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	188923	50.956	ug/L	100
44) Toluene	10.38	91	620857	24.412	ug/L	97
45) trans-1,3-Dichloropropene	10.60	75	178343	25.450	ug/L	97
46) 1,1,2-Trichloroethane	10.78	97	106804	25.886	ug/L	96
47) Tetrachloroethene	10.86	164	136173	24.552	ug/L	97
49) 2-Hexanone	10.97	43	130200	48.710	ug/L	98
50) Dibromochloromethane	11.13	129	127961	26.386	ug/L	99
51) 1,2-Dibromoethane	11.23	107	102938	25.714	ug/L	97
52) Chlorobenzene	11.66	112	396930	24.895	ug/L	99
53) Ethylbenzene	11.73	91	693188	24.838	ug/L	97
54) m,p-Xylene	11.84	106	266055	24.531	ug/L	98
55) o-xylene	12.16	106	253345	24.945	ug/L	97
56) Styrene	12.18	104	435211	25.366	ug/L	95
57) Isopropylbenzene	12.46	105	691588	24.766	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	129629	26.911	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	95505	26.362	ug/L	99
62) Bromoform	12.35	173	80707	25.221	ug/L	100
63) 1,3-Dichlorobenzene	13.50	146	322341	23.511	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	317436	23.434	ug/L	97
65) 1,2-Dichlorobenzene	13.87	146	290838	23.955	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.48	75	20815	25.175	ug/L	93
67) 1,3,5-Trichlorobenzene	14.63	180	245459	23.492	ug/L	98
68) 1,2,4-trichlorobenzene	15.13	180	196292	23.892	ug/L	100
69) Naphthalene	15.36	128	353777	24.238	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	178868	24.669	ug/L	99

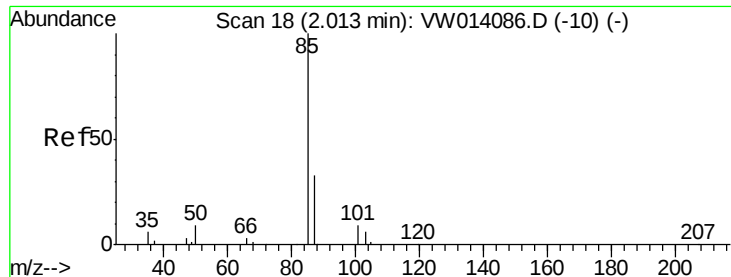
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 19.579 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

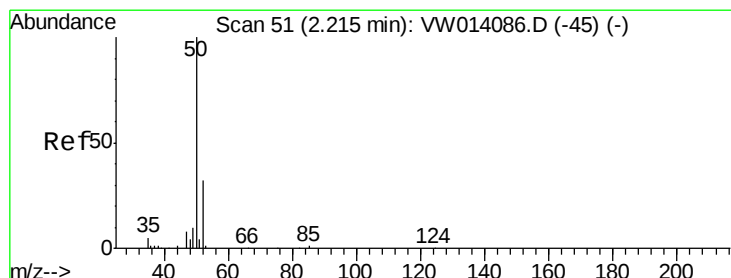
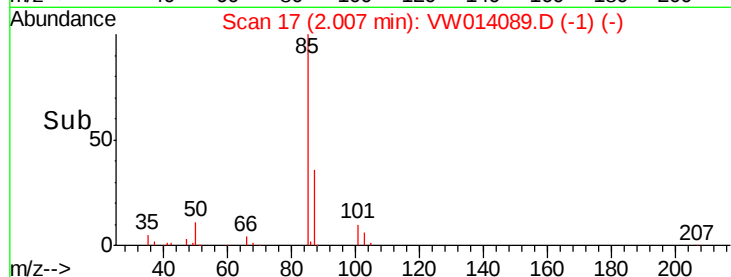
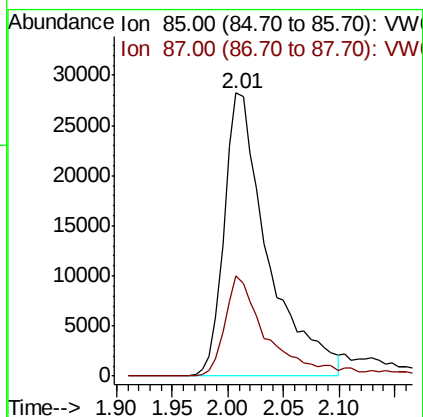
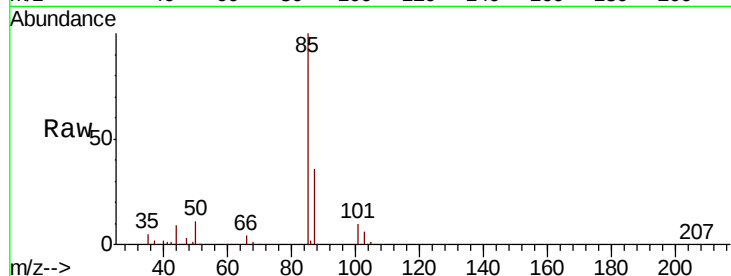
ClientSampleId :

Tot Ion: 85 Resp: 76927

Ion Ratio Lower Upper

85 100

87 32.0 22.1 41.1



#3

Chloromethane

Concen: 20.067 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW014089.D

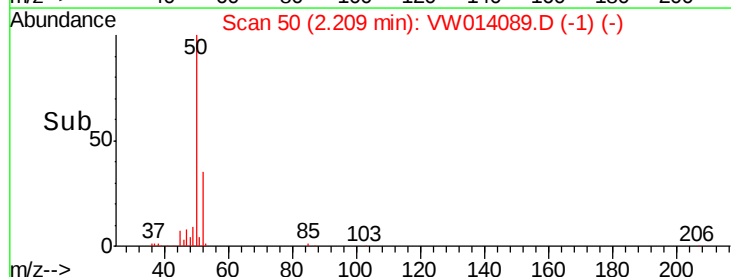
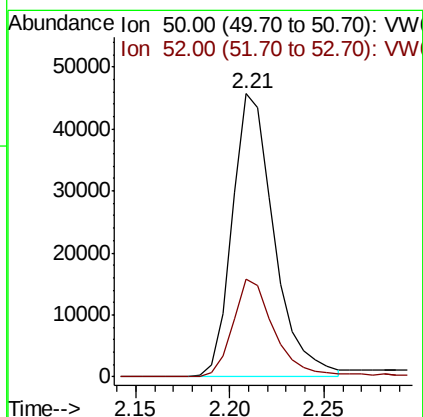
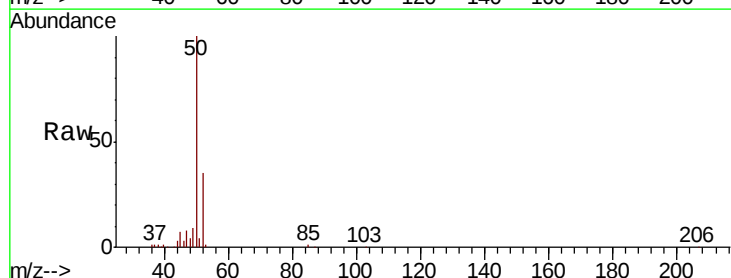
Acq: 20 Nov 2019 16:30

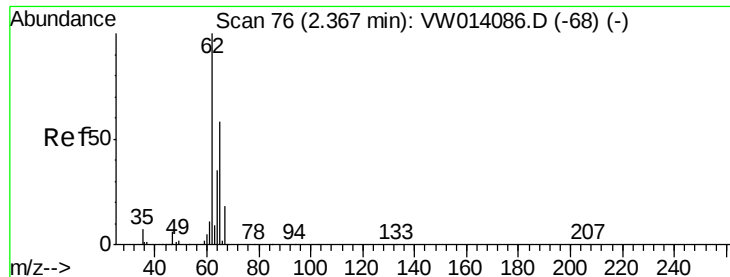
Tgt Ion: 50 Resp: 70032

Ion Ratio Lower Upper

50 100

52 34.6 23.8 44.2





#5

Vinyl chloride

Concen: 24.573 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

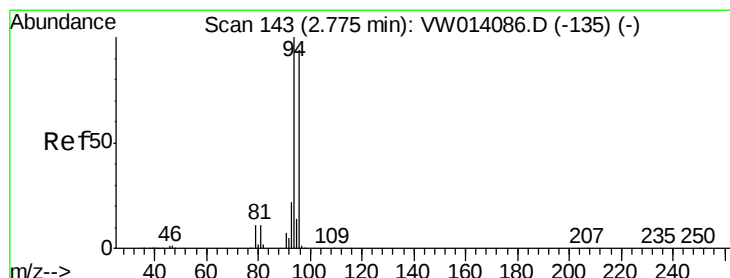
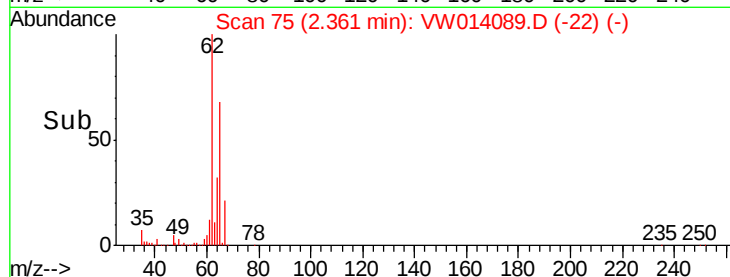
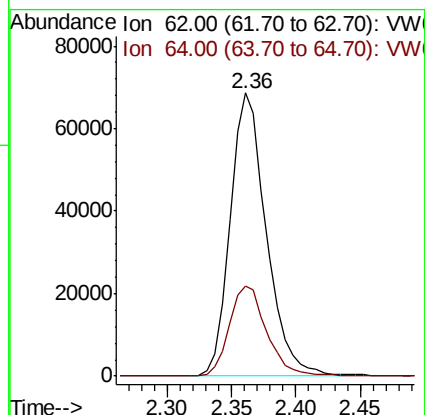
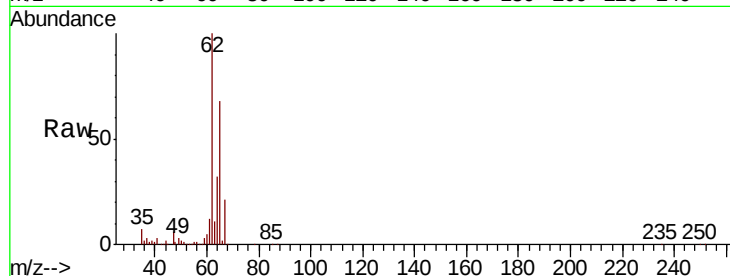
ClientSampleId :

Tot Ion: 62 Resp: 133899

Ion Ratio Lower Upper

62 100

64 32.0 21.8 40.4



#6

Bromomethane

Concen: 23.884 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW014089.D

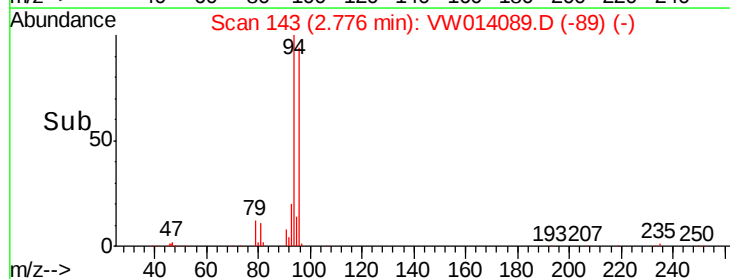
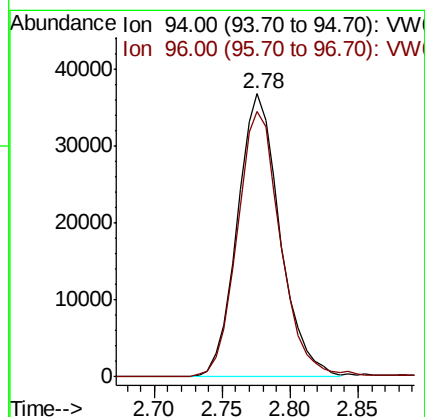
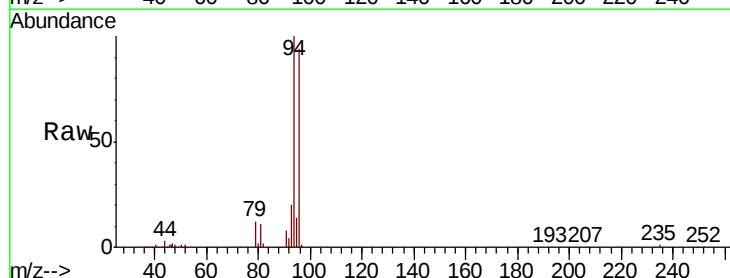
Acq: 20 Nov 2019 16:30

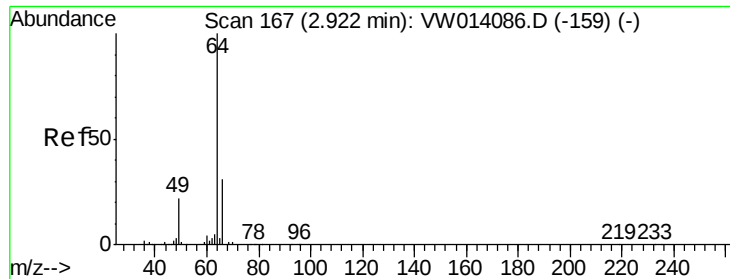
Tgt Ion: 94 Resp: 80578

Ion Ratio Lower Upper

94 100

96 95.6 9.4 178.8





#8

Chloroethane

Concen: 23.703 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

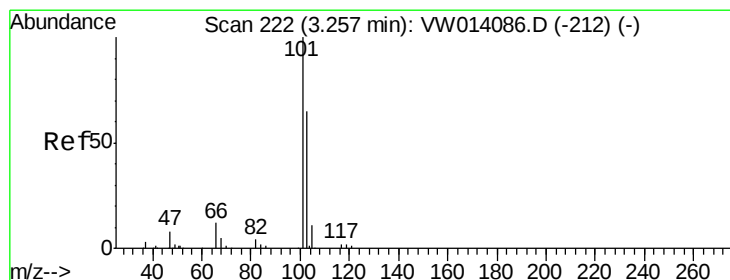
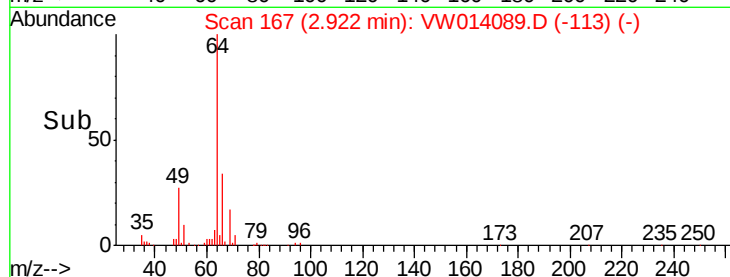
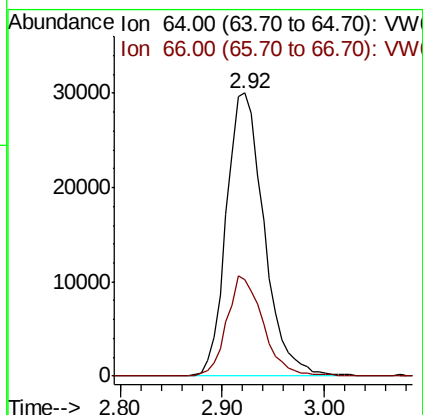
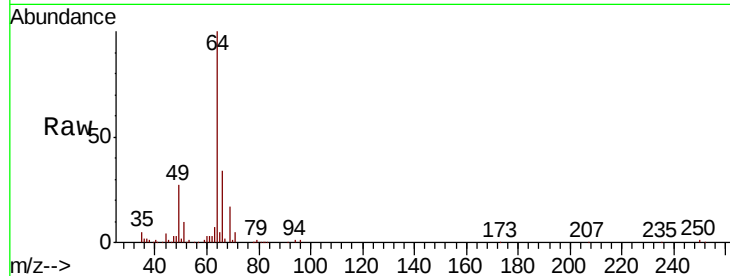
ClientSampleId :

Tot Ion: 64 Resp: 76829

Ion Ratio Lower Upper

64 100

66 34.1 21.2 39.4



#9

Trichlorofluoromethane

Concen: 21.918 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW014089.D

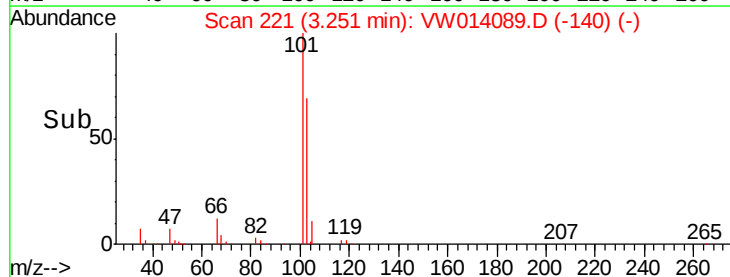
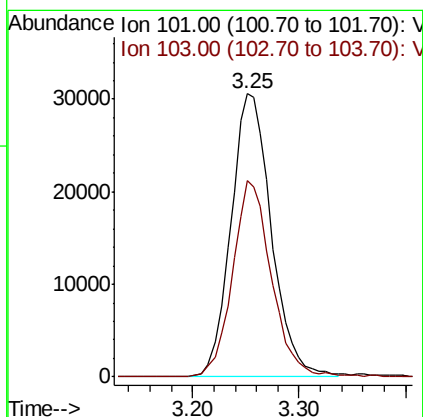
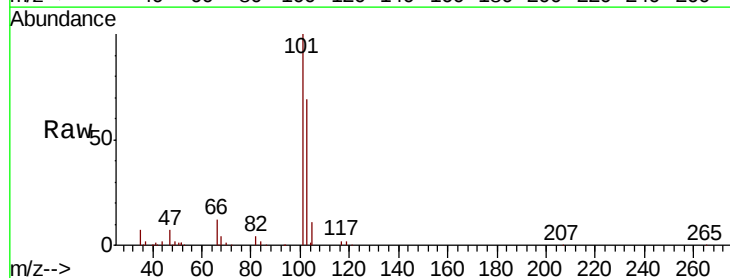
Acq: 20 Nov 2019 16:30

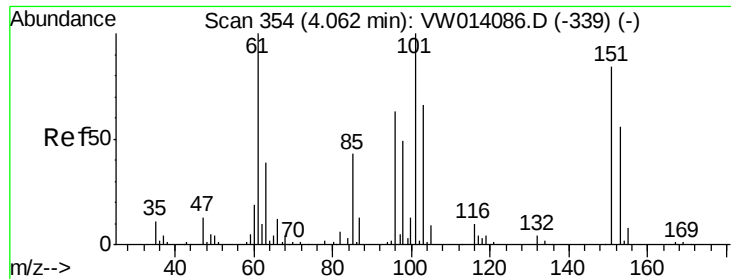
Tgt Ion: 101 Resp: 81441

Ion Ratio Lower Upper

101 100

103 66.0 45.4 84.2





#11

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

Concen: 24.957 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

ClientSampleId :

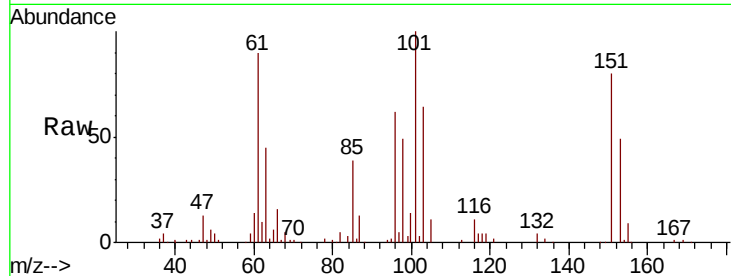
Tot Ion:101 Resp: 136925

Ion Ratio Lower Upper

101 100

85 38.3 31.4 47.2

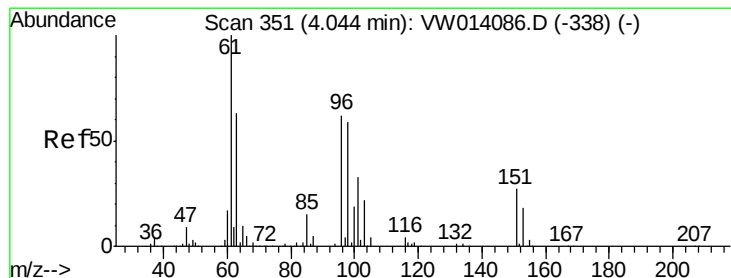
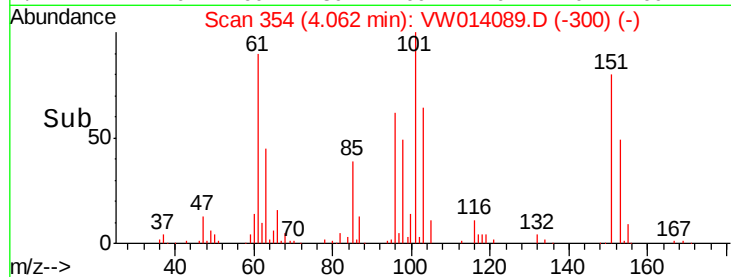
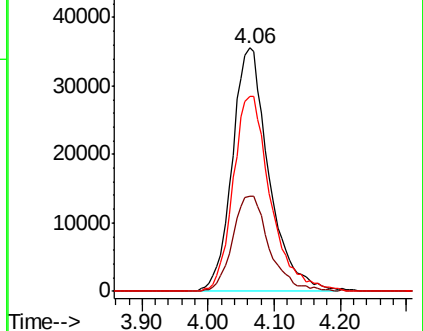
151 81.7 66.9 100.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 24.001 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

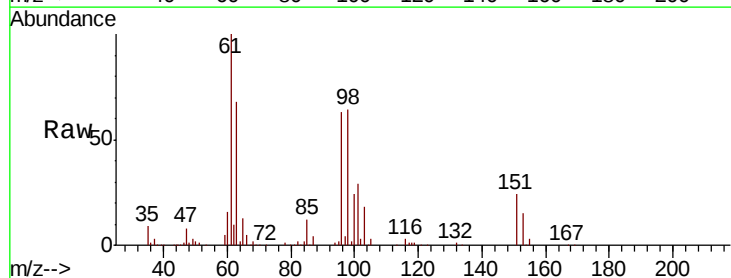
Tgt Ion: 96 Resp: 133859

Ion Ratio Lower Upper

96 100

61 159.7 109.8 204.0

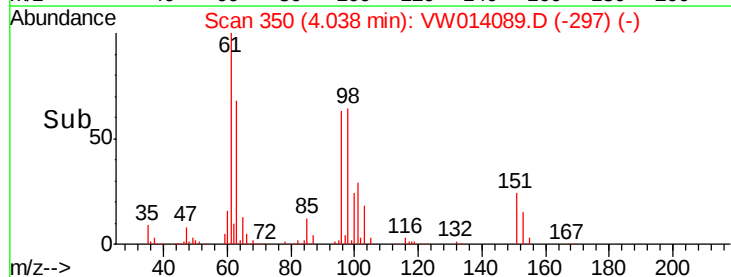
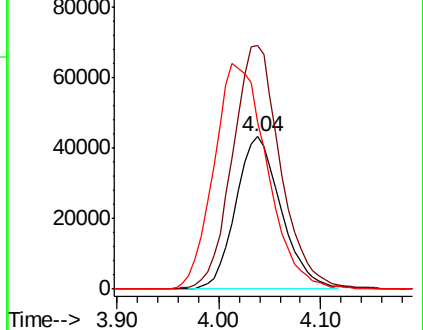
63 109.0 80.7 149.9

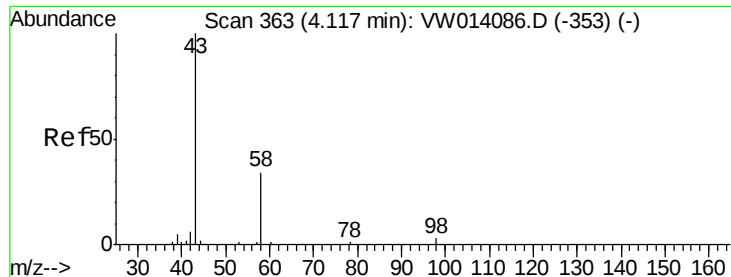


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 35.462 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

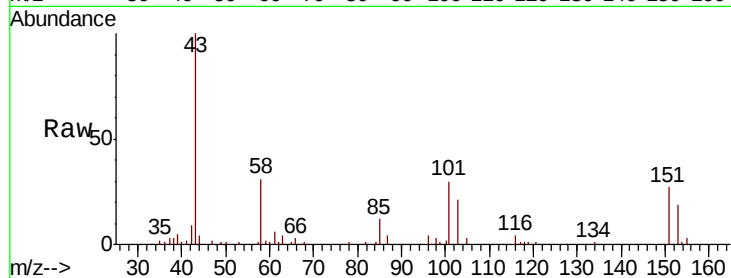
ClientSampleId :

Tot Ion: 43 Resp: 55258

Ion Ratio Lower Upper

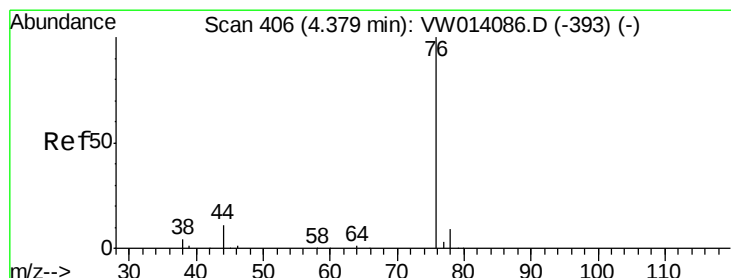
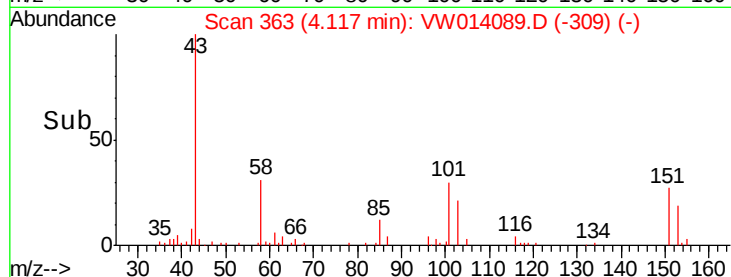
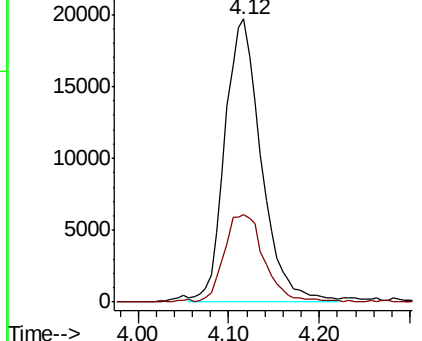
43 100

58 34.0 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 23.500 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW014089.D

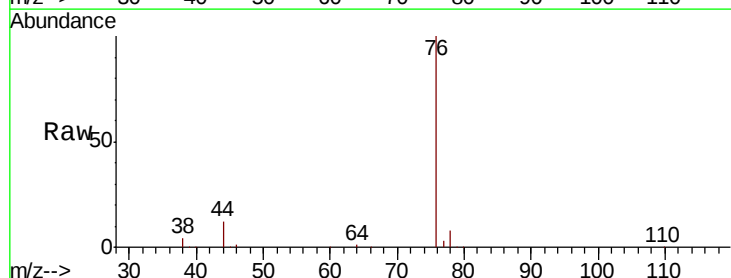
Acq: 20 Nov 2019 16:30

Tgt Ion: 76 Resp: 373025

Ion Ratio Lower Upper

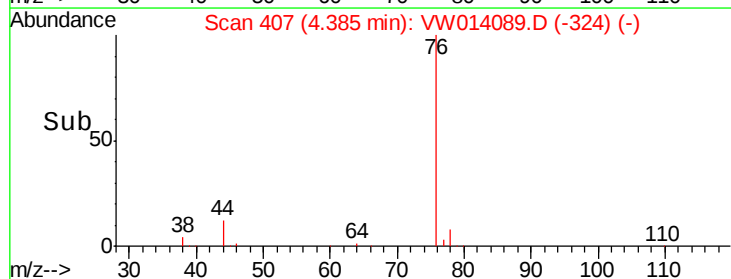
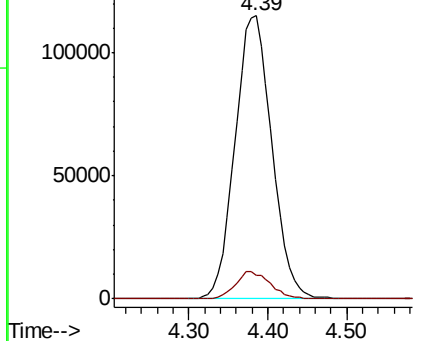
76 100

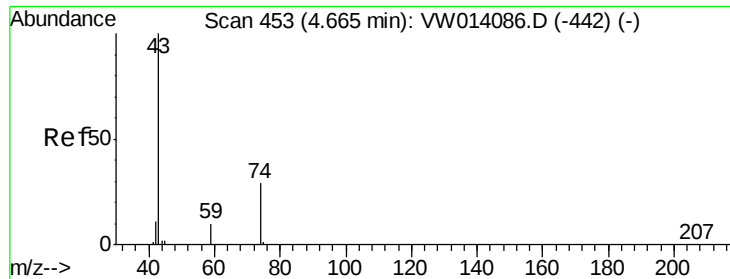
78 8.4 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

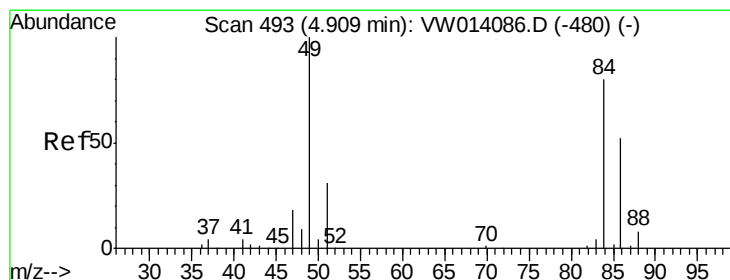
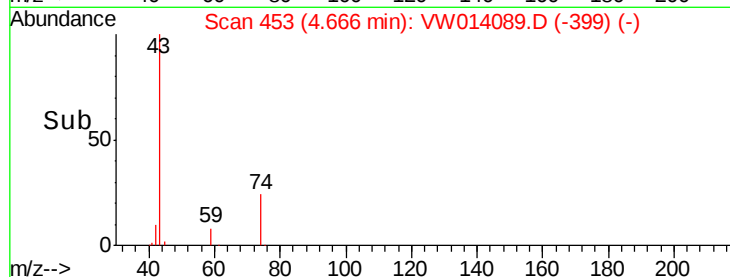
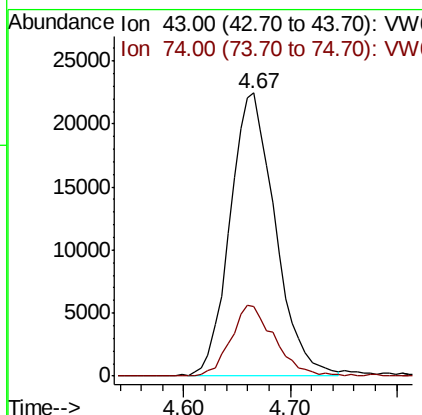
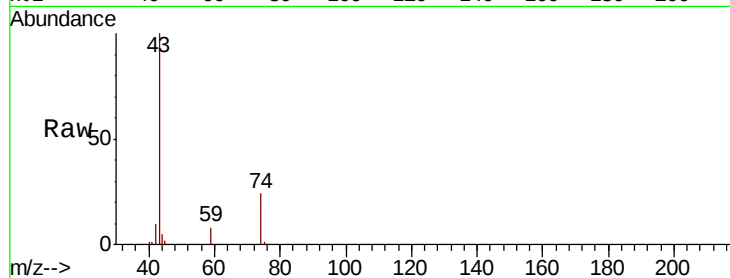




#15
Methyl Acetate
Concen: 26.468 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW014089.D
Acq: 20 Nov 2019 16:30

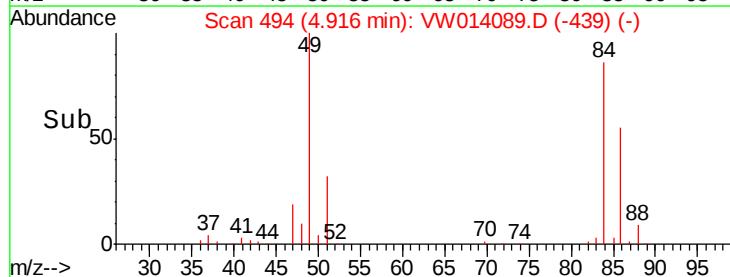
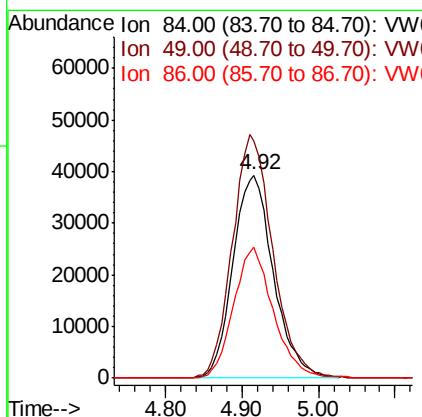
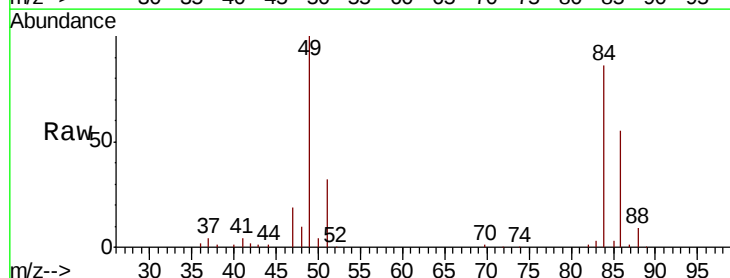
Instrument :
MSVOA_W
ClientSampled :

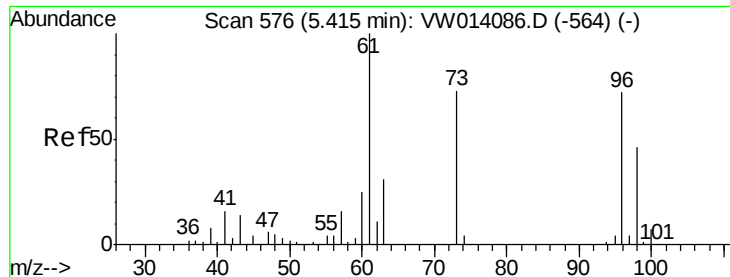
Tot Ion: 43 Resp: 66730
Ion Ratio Lower Upper
43 100
74 24.1 19.3 28.9



#16
Methylene chloride
Concen: 22.711 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW014089.D
Acq: 20 Nov 2019 16:30

Tgt Ion: 84 Resp: 144448
Ion Ratio Lower Upper
84 100
49 116.5 84.2 156.4
86 64.3 43.7 81.1

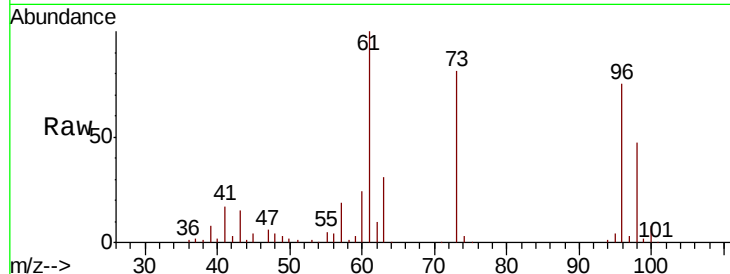




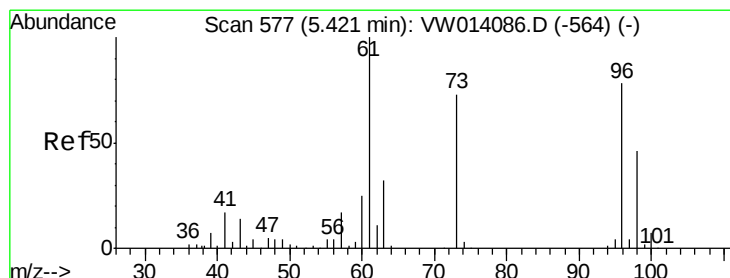
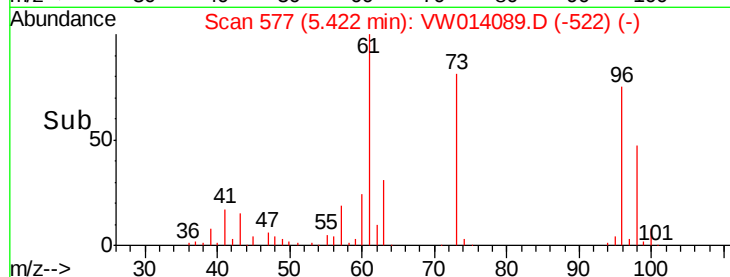
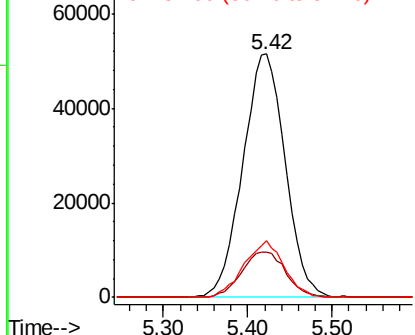
#17
Methvl tert-butvl Ether
Concen: 24.627 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.01 min
Lab File: VW014089.D
Acq: 20 Nov 2019 16:30

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 73 Resp: 177189
Ion Ratio Lower Upper
73 100
43 19.4 15.5 23.3
57 22.1 18.2 27.4

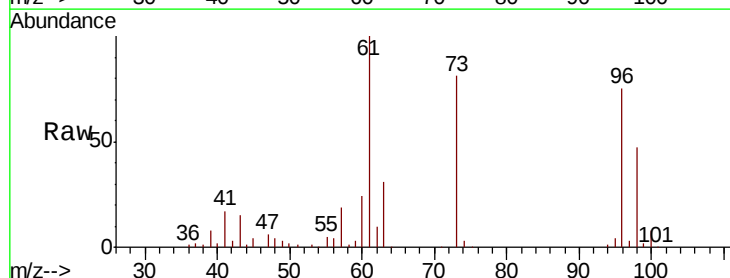


Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW

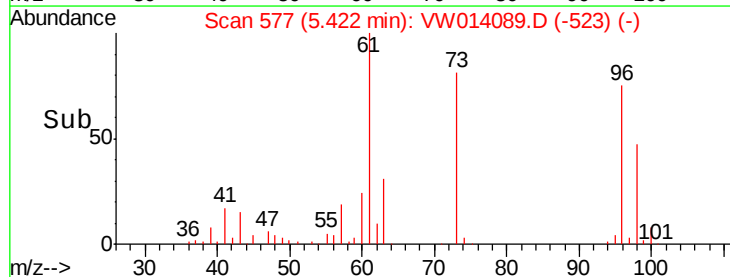
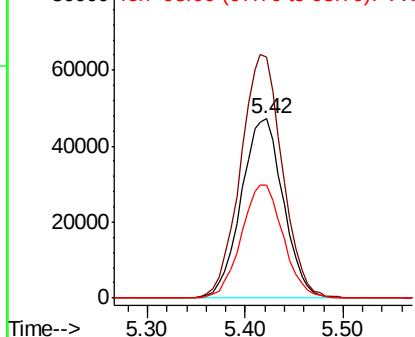


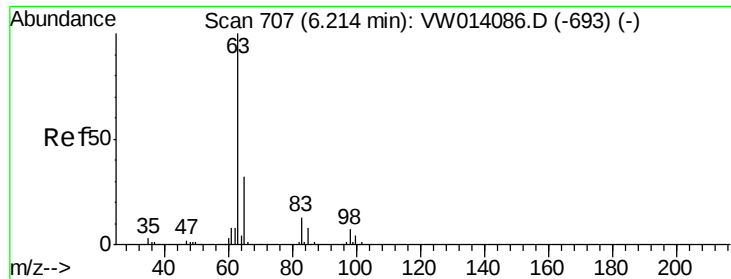
#18
trans-1,2-Dichloroethene
Concen: 24.312 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014089.D
Acq: 20 Nov 2019 16:30

Tgt Ion: 96 Resp: 141397
Ion Ratio Lower Upper
96 100
61 134.0 90.6 168.2
98 63.0 42.9 79.7



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





#19

1,1-Dichloroethane

Concen: 25.403 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

ClientSampled :

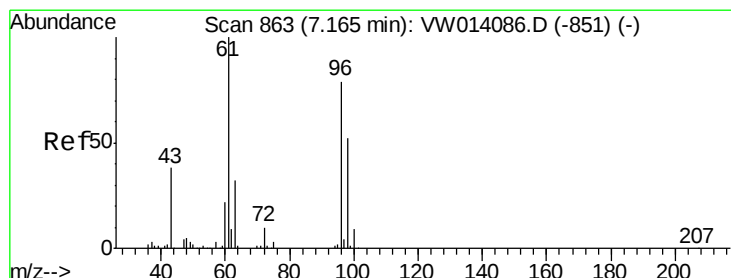
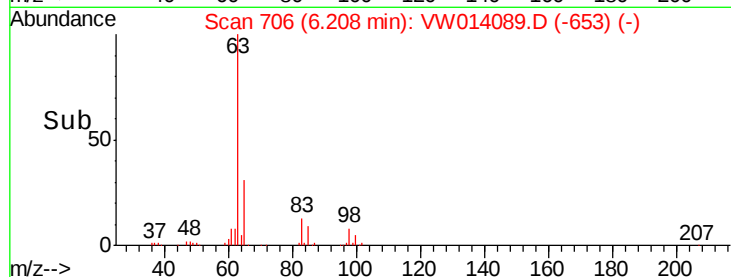
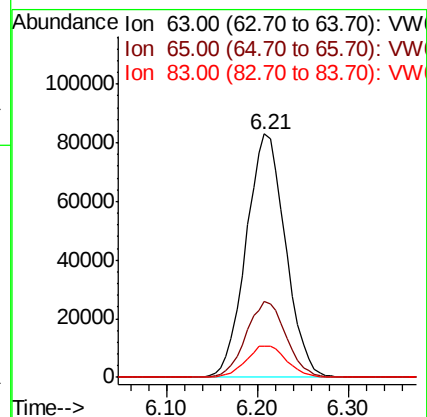
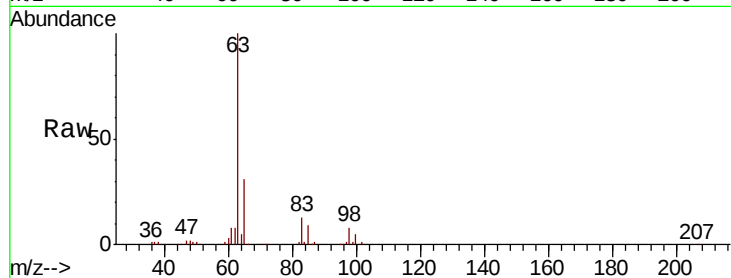
Tot Ion: 63 Resp: 248858

Ion Ratio Lower Upper

63 100

65 31.1 22.1 41.1

83 12.8 9.0 16.6



#21

2-Butanone

Concen: 44.220 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014089.D

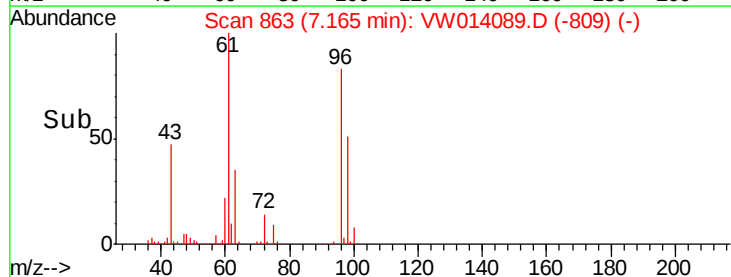
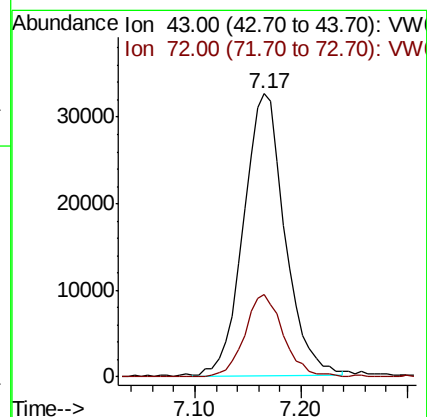
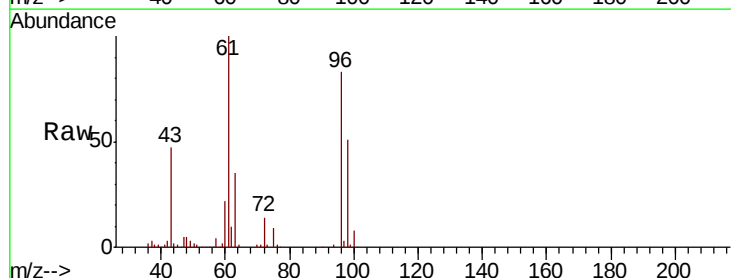
Acq: 20 Nov 2019 16:30

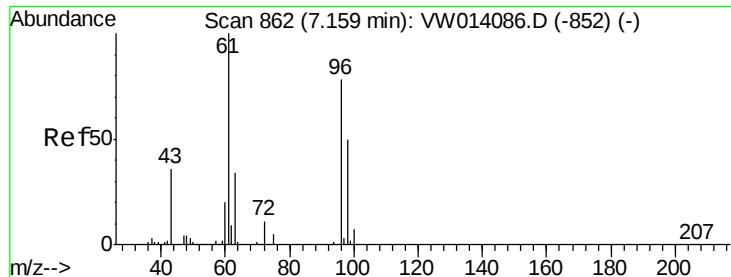
Tgt Ion: 43 Resp: 88524

Ion Ratio Lower Upper

43 100

72 27.5 14.1 42.2



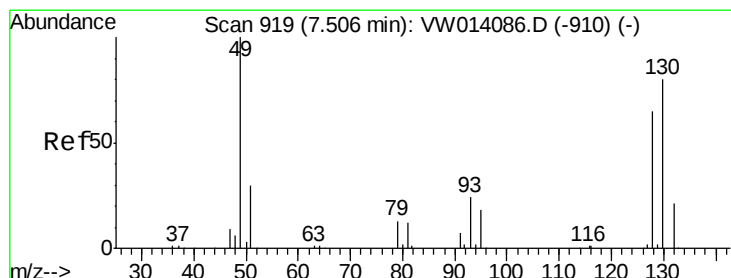
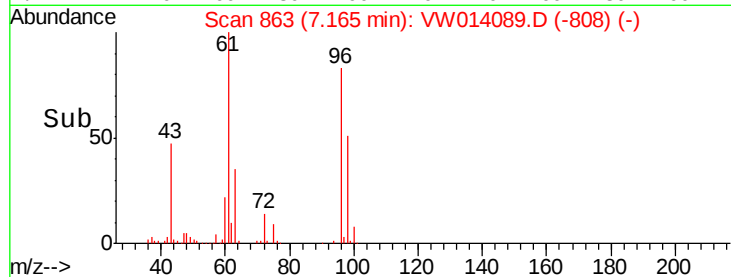
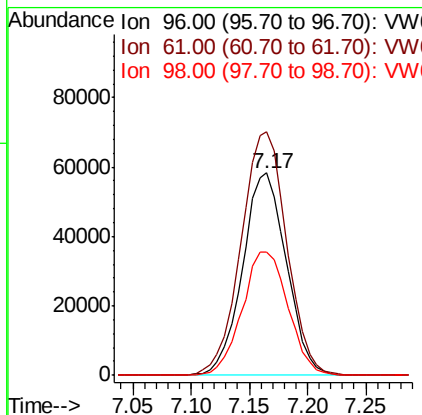
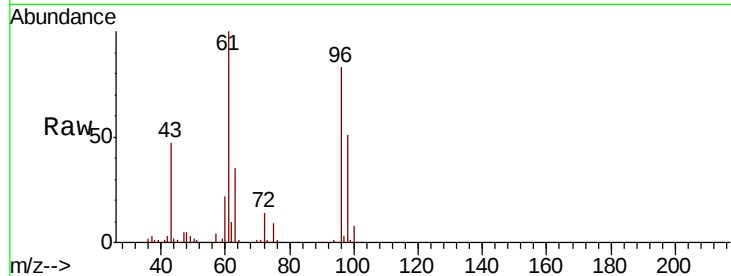


#22

cis-1,2-Dichloroethene
Concen: 24.925 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.01 min
Lab File: VW014089.D
Acq: 20 Nov 2019 16:30

Instrument :
MSVOA_W
ClientSampleId :

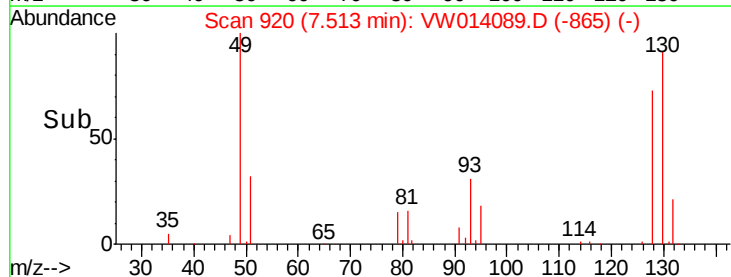
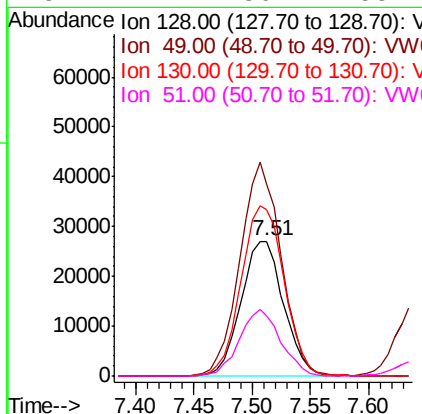
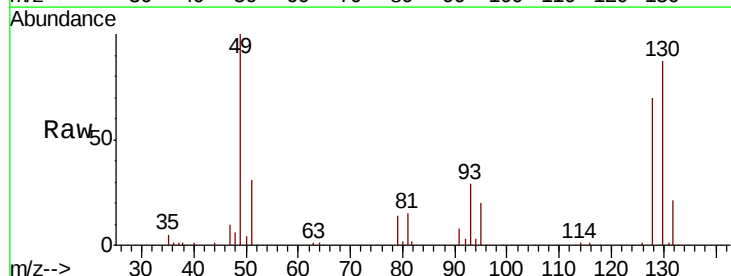
Tot Ion: 96 Resp: 152543
Ion Ratio Lower Upper
96 100
61 120.3 86.9 161.5
98 61.1 45.5 84.5

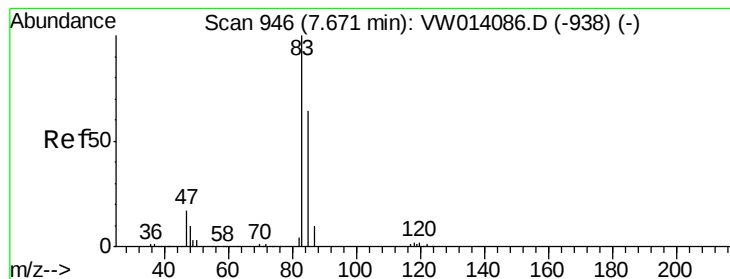


#23

Bromochloromethane
Concen: 25.560 ug/L
RT: 7.51 min Scan# 920
Delta R.T. 0.01 min
Lab File: VW014089.D
Acq: 20 Nov 2019 16:30

Tgt Ion: 128 Resp: 68668
Ion Ratio Lower Upper
128 100
49 142.0 95.1 176.5
130 123.6 85.0 158.0
51 44.4 36.7 55.1





#25

Chloroform

Concen: 26.185 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

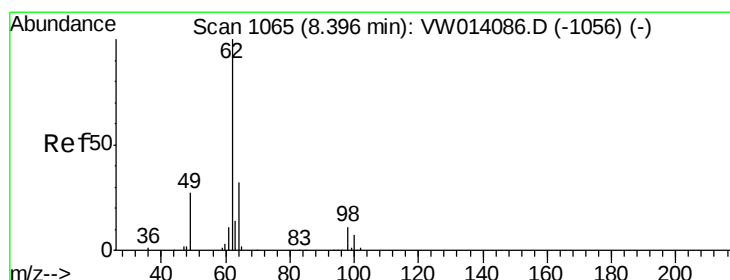
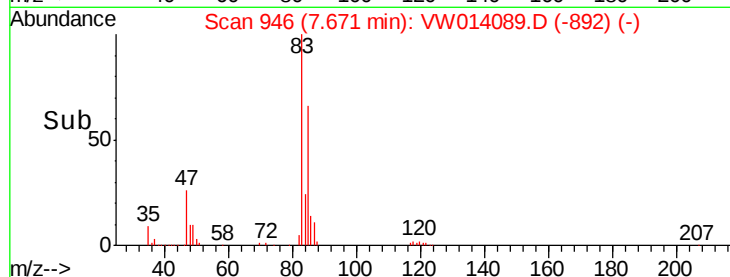
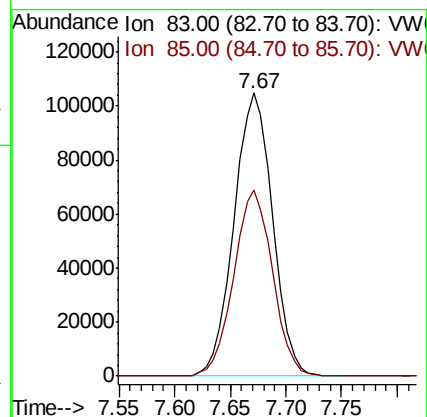
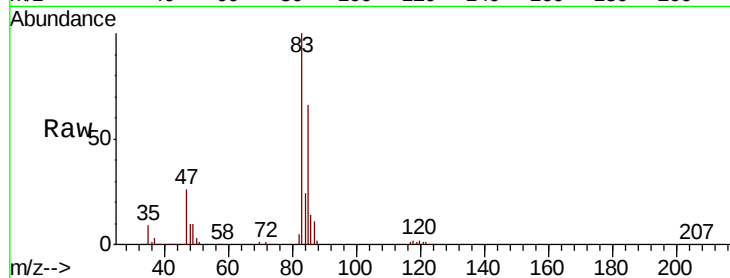
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 83 Resp: 251902

Ion Ratio Lower Upper

83 100

85 66.0 46.1 85.7



#27

1,2-Dichloroethane

Concen: 27.339 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW014089.D

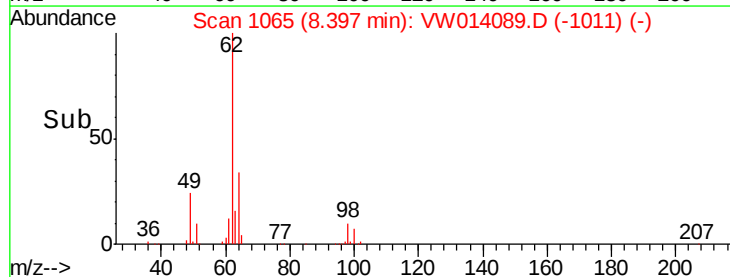
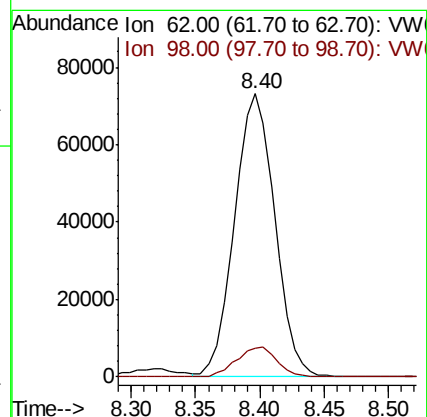
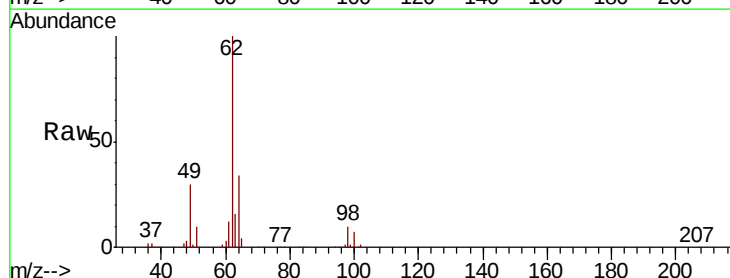
Acq: 20 Nov 2019 16:30

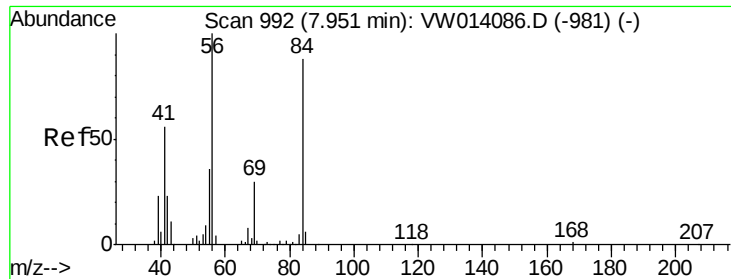
Tgt Ion: 62 Resp: 159235

Ion Ratio Lower Upper

62 100

98 10.3 9.3 13.9

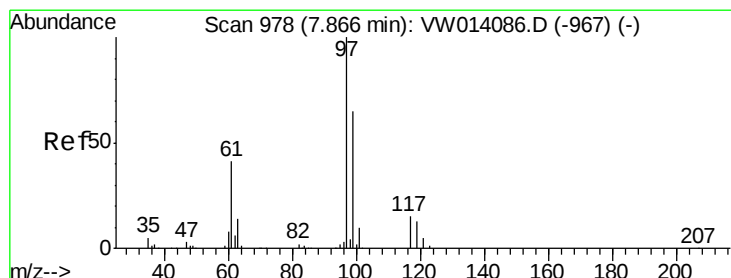
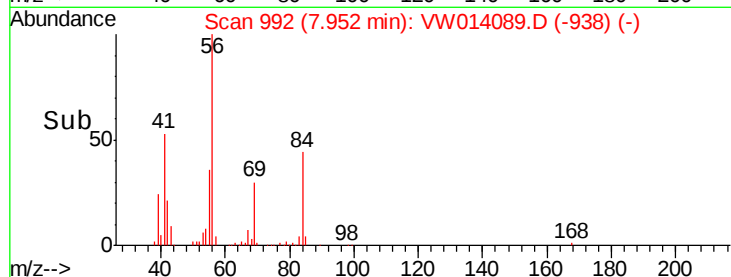
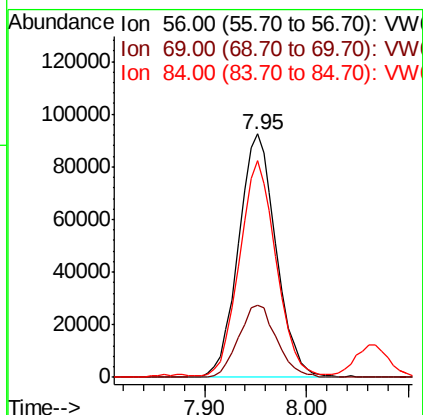
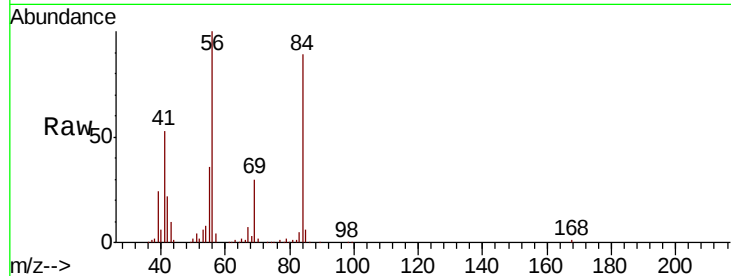




#30
Cvclohexane
Concen: 23.239 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW014089.D
Acq: 20 Nov 2019 16:30

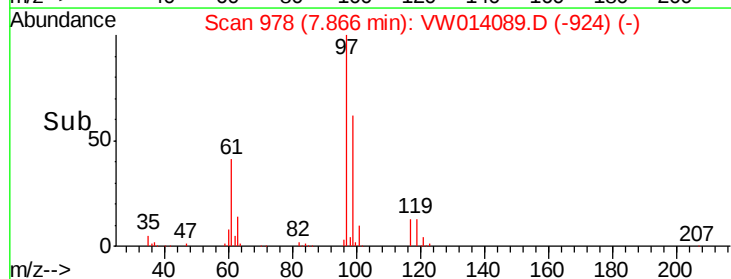
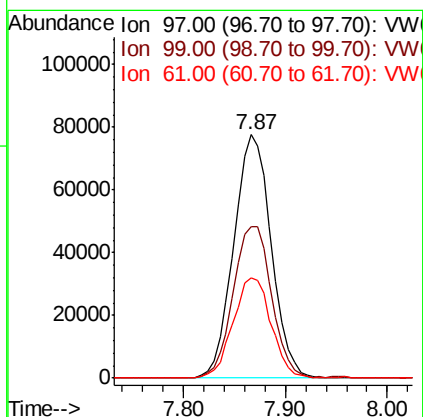
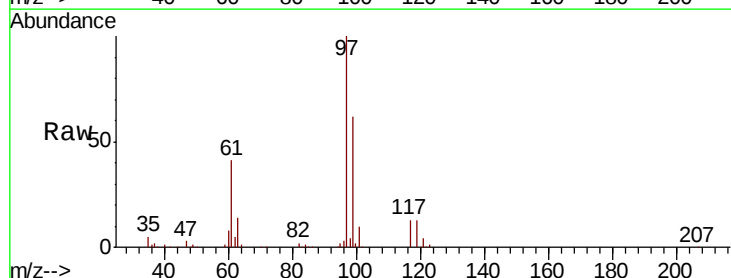
Instrument :
MSVOA_W
ClientSampleId :

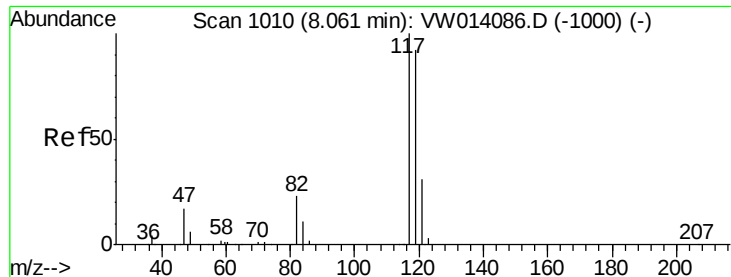
Tot Ion: 56 Resp: 236510
Ion Ratio Lower Upper
56 100
69 30.0 24.6 37.0
84 86.6 70.2 105.2



#31
1,1,1-Trichloroethane
Concen: 24.795 ug/L
RT: 7.87 min Scan# 978
Delta R.T. 0.00 min
Lab File: VW014089.D
Acq: 20 Nov 2019 16:30

Tgt Ion: 97 Resp: 197610
Ion Ratio Lower Upper
97 100
99 64.0 51.1 76.7
61 42.0 32.8 49.2





#32

Carbon tetrachloride

Concen: 24.813 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

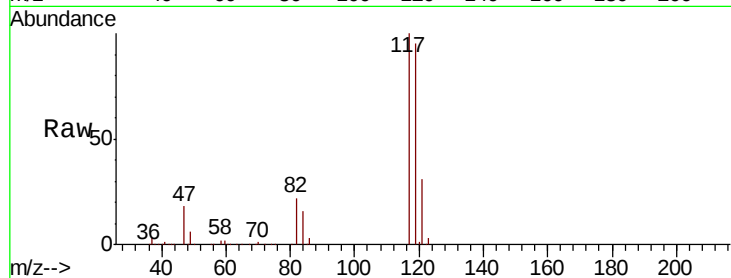
ClientSampleId :

Tot Ion:117 Resp: 189835

Ion Ratio Lower Upper

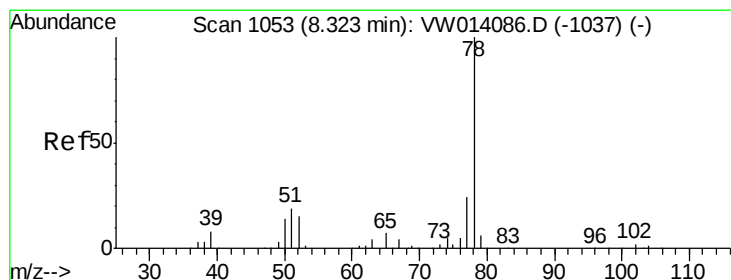
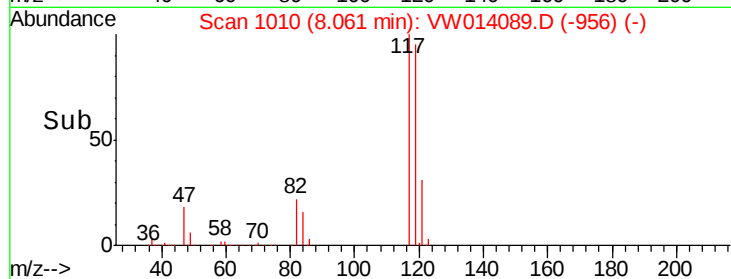
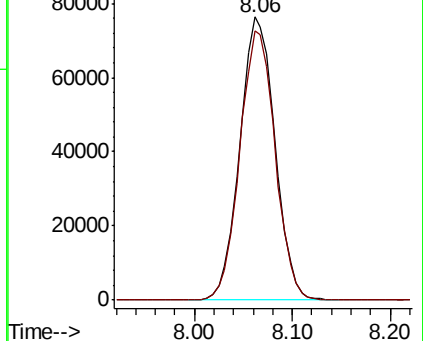
117 100

119 95.6 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.628 ug/L

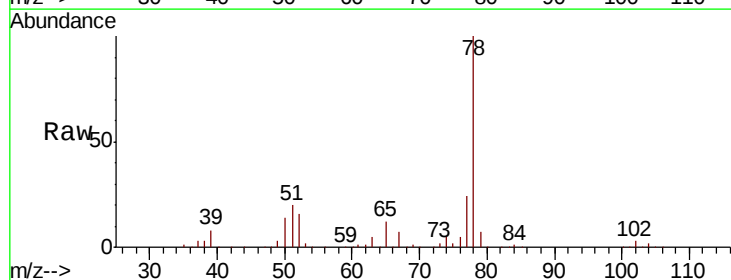
RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

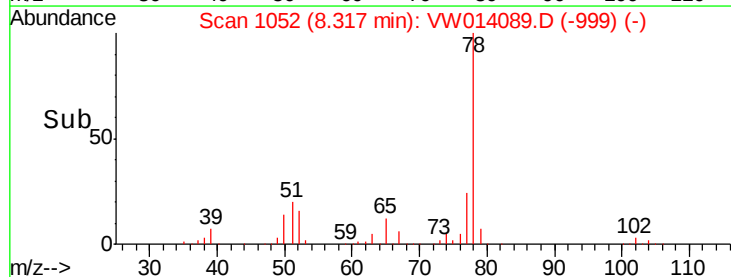
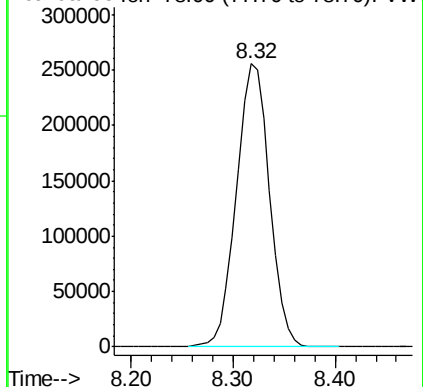
Lab File: VW014089.D

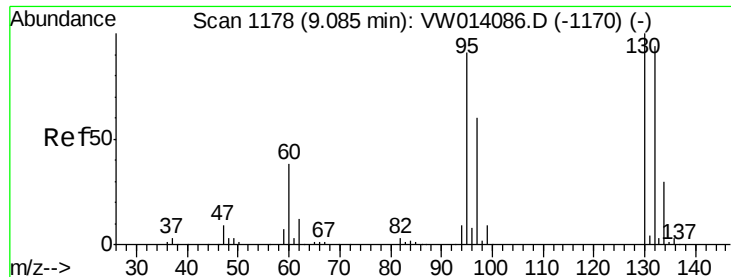
Acq: 20 Nov 2019 16:30

Tgt Ion: 78 Resp: 574494



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 24.001 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 95 Resp: 149344

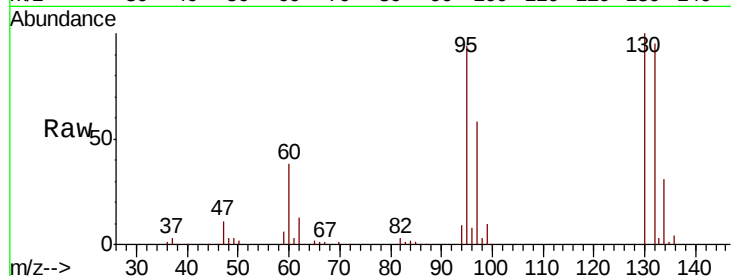
Ion Ratio Lower Upper

95 100

97 64.5 45.1 83.9

132 104.2 73.7 136.9

130 107.7 76.6 142.2

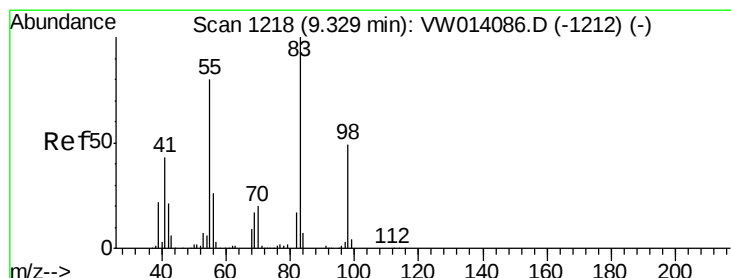
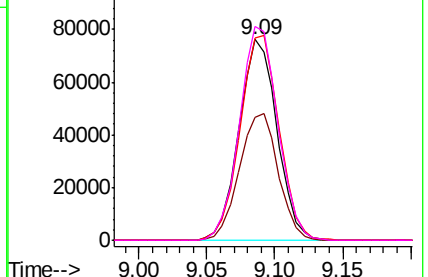
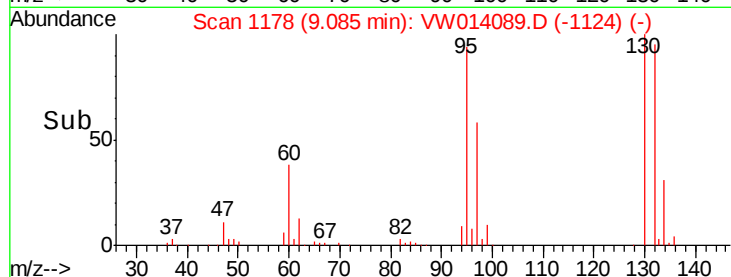


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 23.510 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

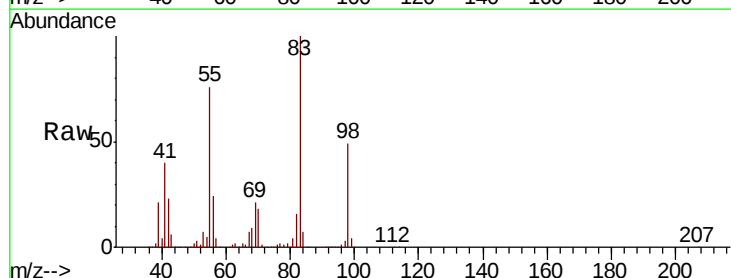
Tgt Ion: 83 Resp: 262295

Ion Ratio Lower Upper

83 100

55 76.0 59.8 89.8

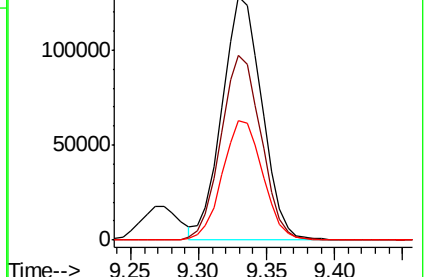
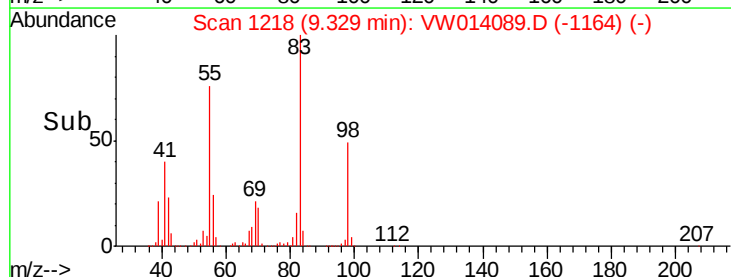
98 49.6 39.5 59.3

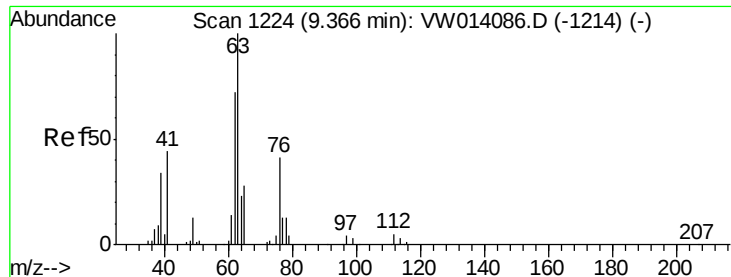


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

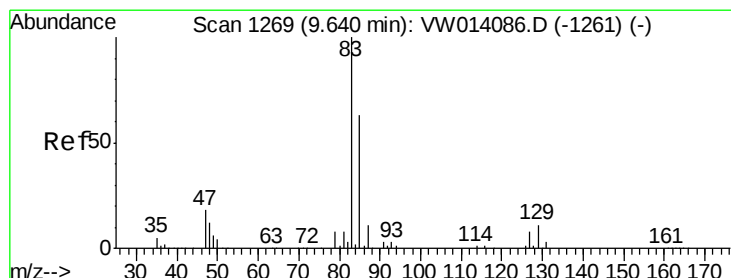
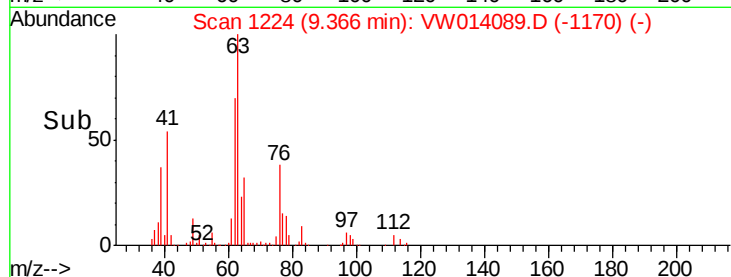
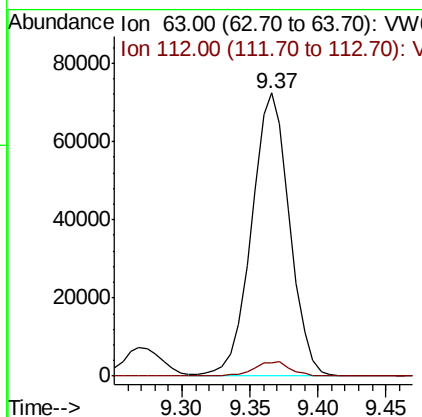
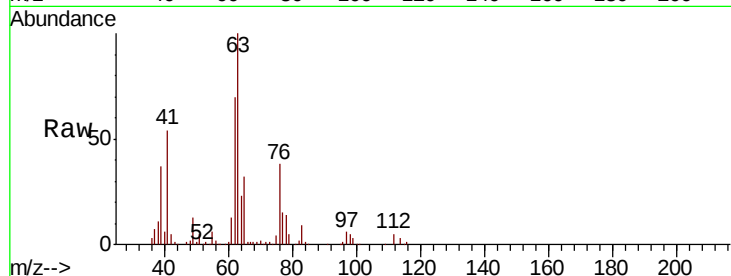




#40
 1,2-Dichloropropane
 Concen: 25.223 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW014089.D
 Acq: 20 Nov 2019 16:30

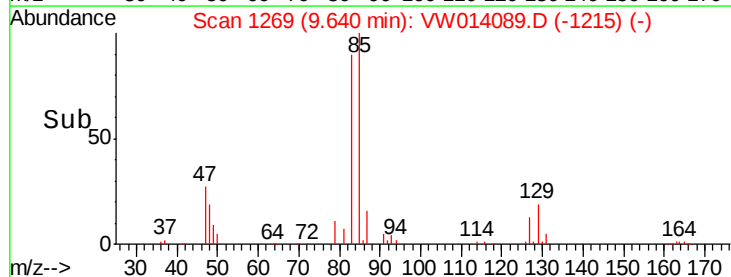
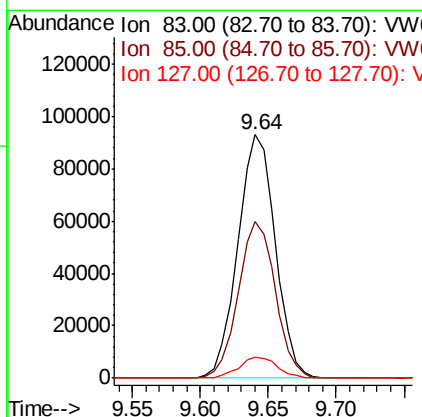
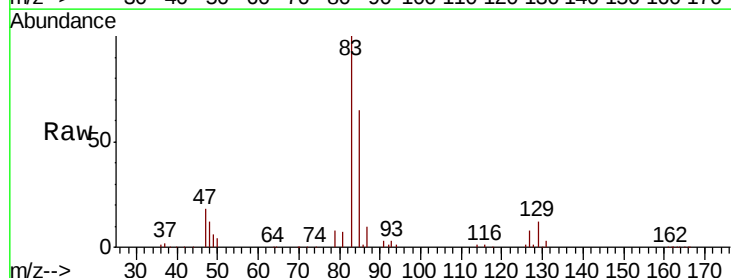
Instrument :
 MSVOA_W
 ClientSampled :

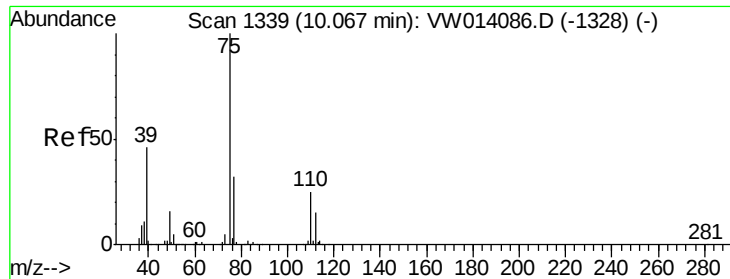
Tot Ion: 63 Resp: 141633
 Ion Ratio Lower Upper
 63 100
 112 5.0 3.9 5.9



#41
 Bromodichloromethane
 Concen: 26.383 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW014089.D
 Acq: 20 Nov 2019 16:30

Tgt Ion: 83 Resp: 179105
 Ion Ratio Lower Upper
 83 100
 85 64.5 45.1 83.7
 127 8.3 7.4 11.0

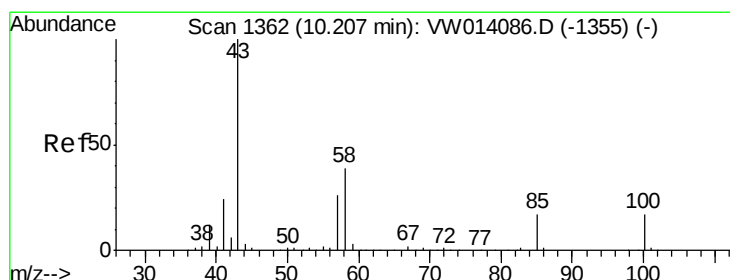
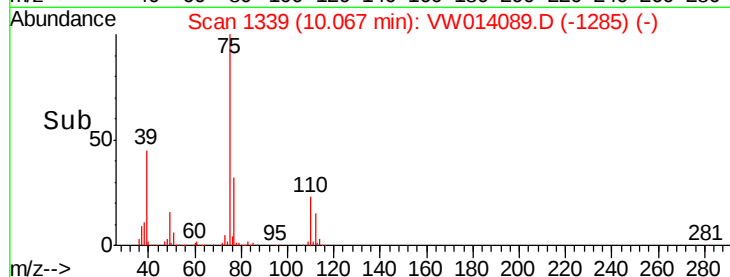
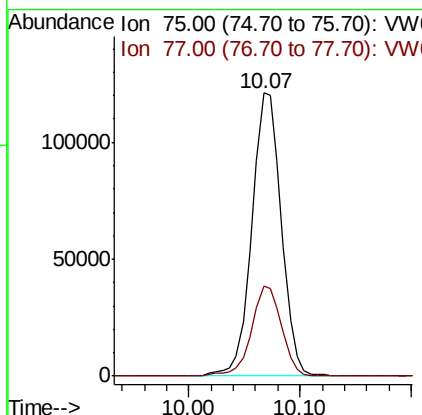
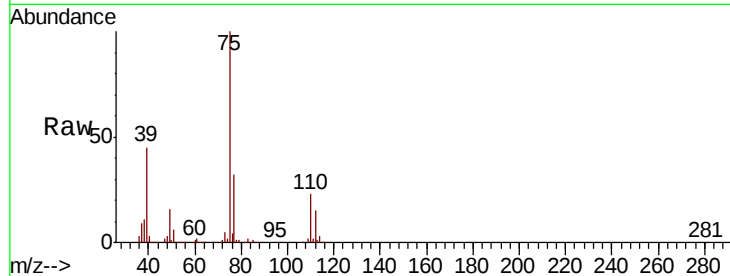




#42
 cis-1,3-Dichloropropene
 Concen: 25.318 ug/L
 RT: 10.07 min Scan# 1339
 Delta R.T. 0.00 min
 Lab File: VW014089.D
 Acq: 20 Nov 2019 16:30

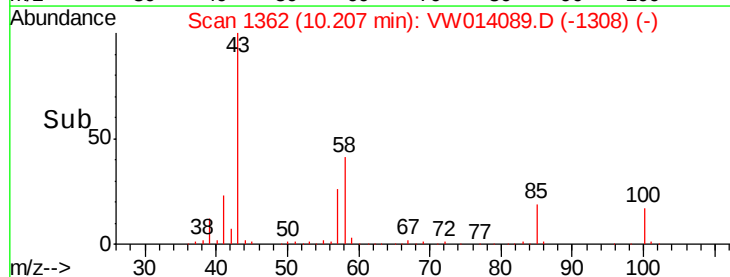
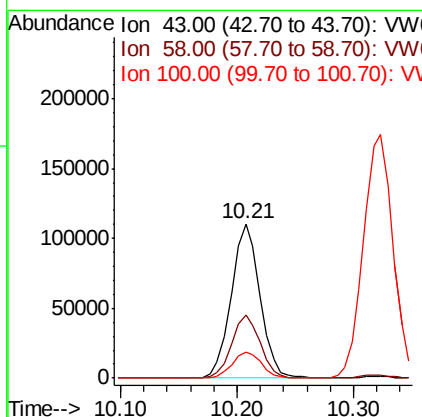
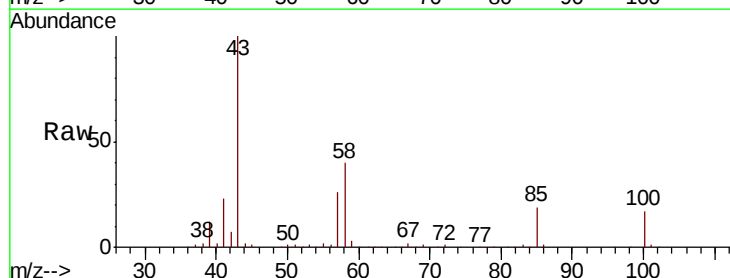
Instrument :
 MSVOA_W
 ClientSampled :

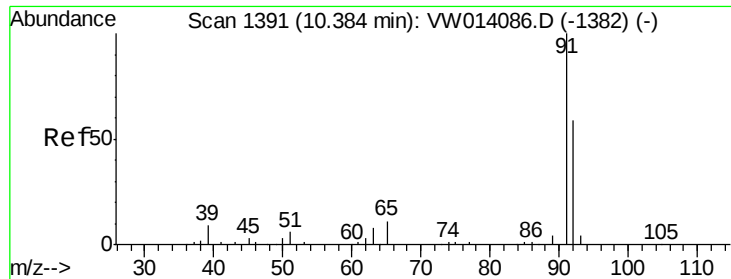
Tot Ion: 75 Resp: 224353
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.1 41.1



#43
 4-Methyl-2-pentanone
 Concen: 50.956 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VW014089.D
 Acq: 20 Nov 2019 16:30

Tgt Ion: 43 Resp: 188923
 Ion Ratio Lower Upper
 43 100
 58 40.9 32.6 49.0
 100 17.3 13.8 20.8





#44

Toluene

Concen: 24.412 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

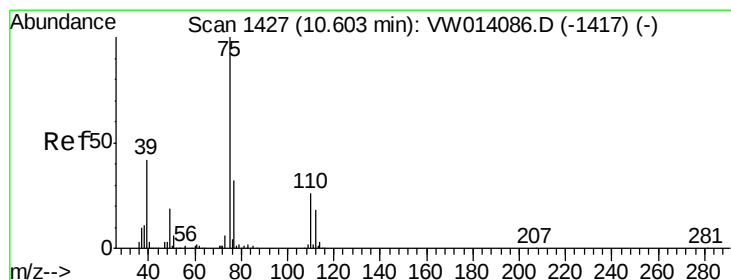
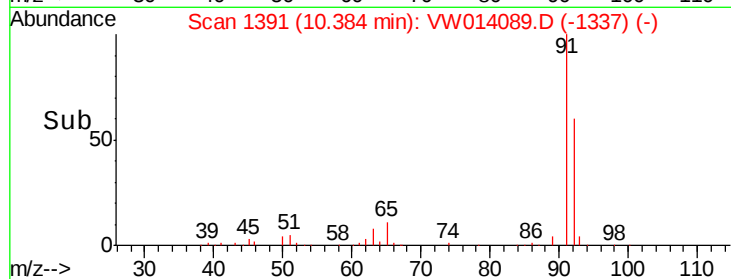
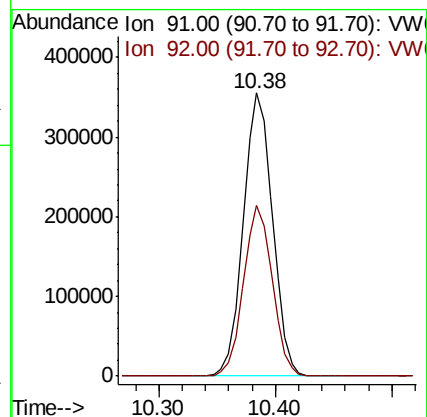
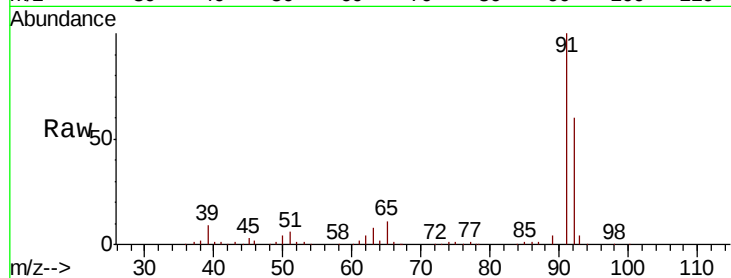
ClientSampleId :

Tot Ion: 91 Resp: 620857

Ion Ratio Lower Upper

91 100

92 60.2 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 25.450 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014089.D

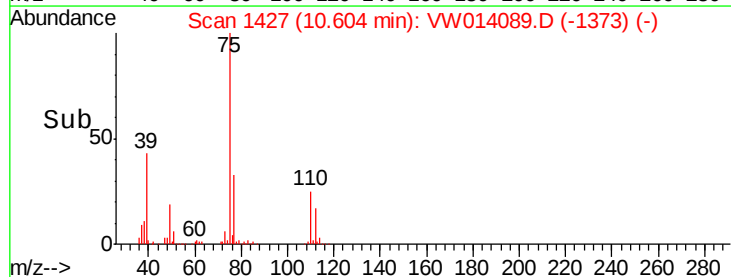
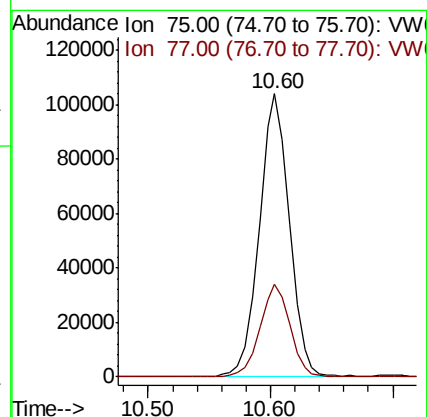
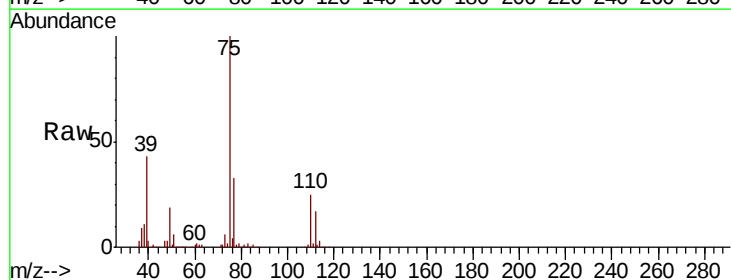
Acq: 20 Nov 2019 16:30

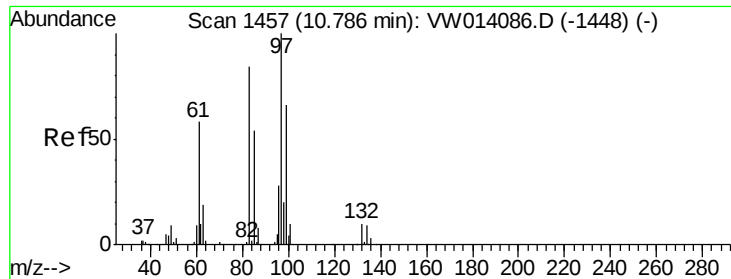
Tgt Ion: 75 Resp: 178343

Ion Ratio Lower Upper

75 100

77 32.7 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 25.886 ug/L

RT: 10.78 min Scan# 1456

Delta R.T. -0.01 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 97 Resp: 106804

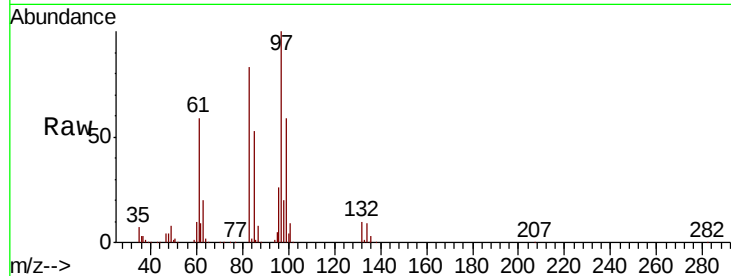
Ion Ratio Lower Upper

97 100

83 83.3 58.9 109.5

85 53.3 38.1 70.9

99 59.5 46.5 86.3



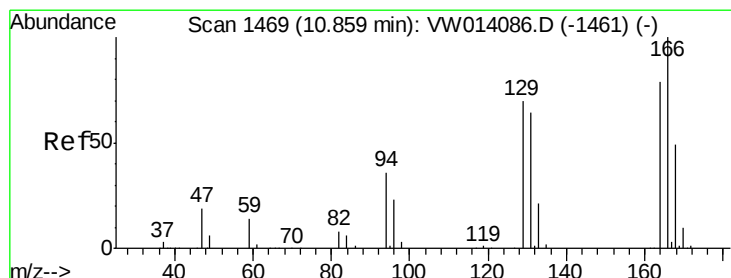
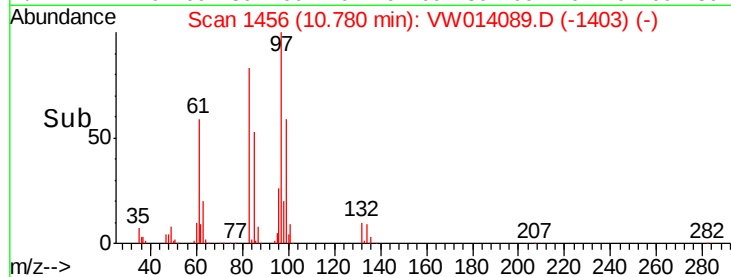
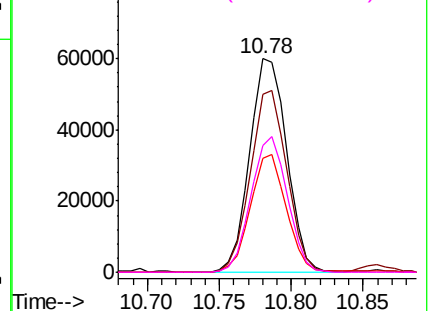
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 24.552 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Tgt Ion: 164 Resp: 136173

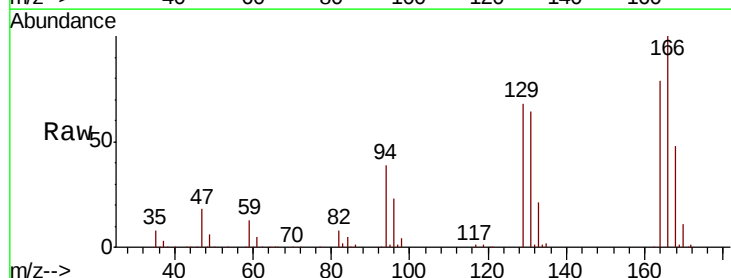
Ion Ratio Lower Upper

164 100

129 85.2 60.6 112.6

131 80.6 59.1 109.7

166 125.9 90.8 168.6



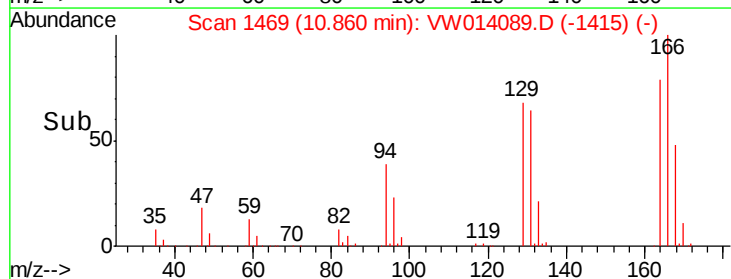
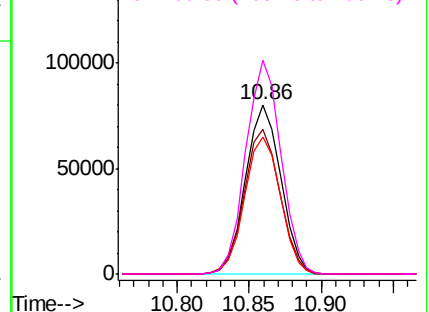
Abundance

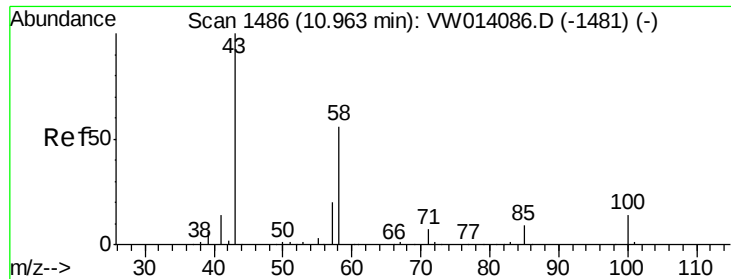
Ion 164.00 (163.70 to 164.70): V

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

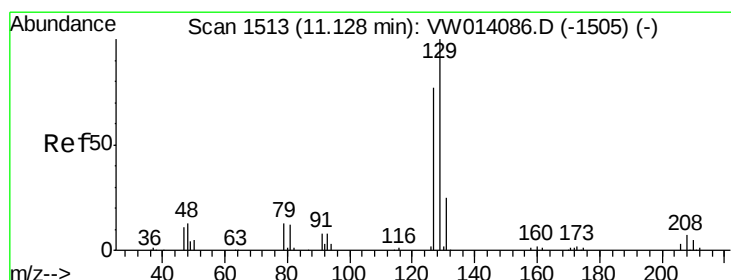
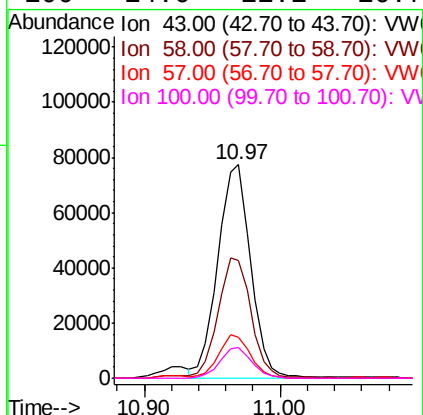
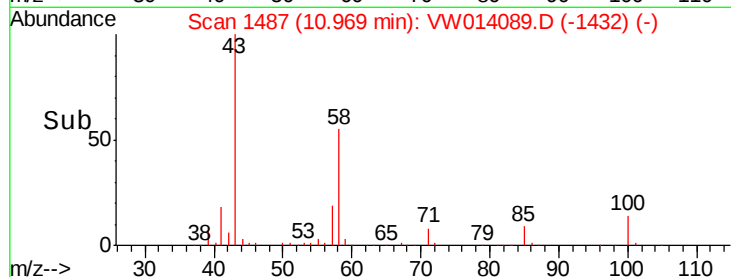
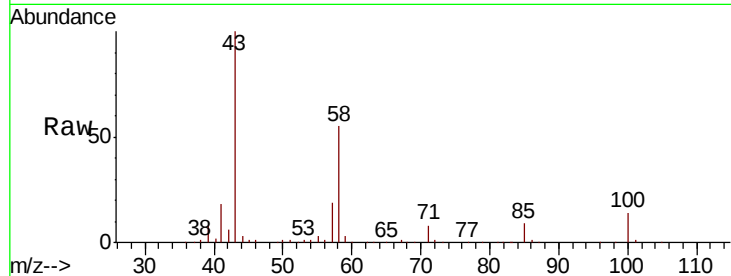




#49
2-Hexanone
Concen: 48.710 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.01 min
Lab File: VW014089.D
Acq: 20 Nov 2019 16:30

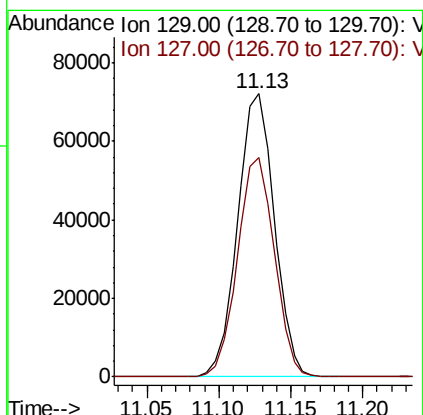
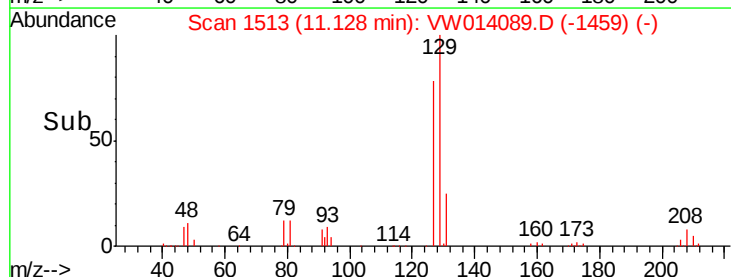
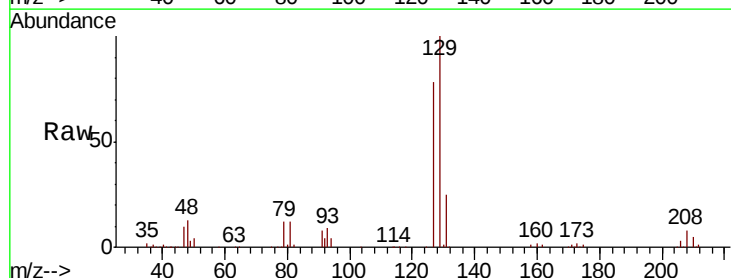
Instrument :
MSVOA_W
ClientSampled :

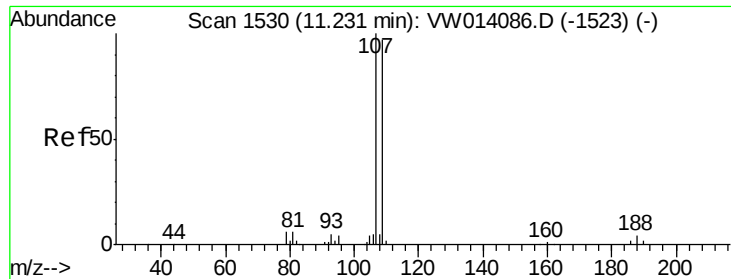
Tot Ion: 43 Resp: 130200
Ion Ratio Lower Upper
43 100
58 57.7 44.4 66.6
57 19.7 16.5 24.7
100 14.0 11.1 16.7



#50
Dibromochloromethane
Concen: 26.386 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW014089.D
Acq: 20 Nov 2019 16:30

Tgt Ion: 129 Resp: 127961
Ion Ratio Lower Upper
129 100
127 77.7 54.9 102.1





#51

1,2-Dibromoethane

Concen: 25.714 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

ClientSampleId :

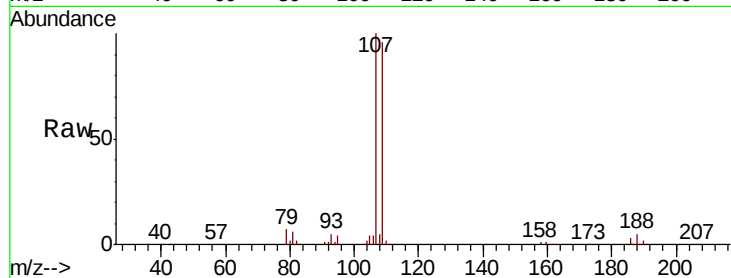
Tot Ion:107 Resp: 102938

Ion Ratio Lower Upper

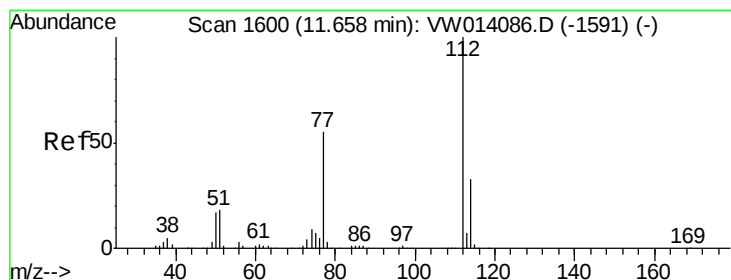
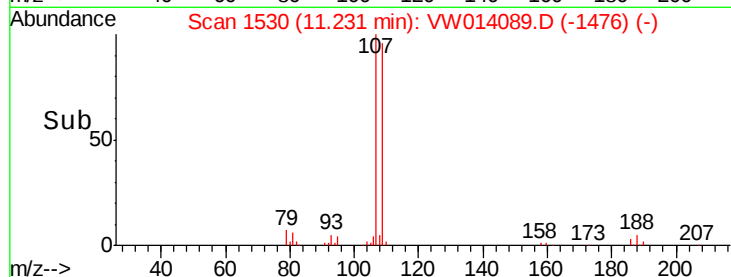
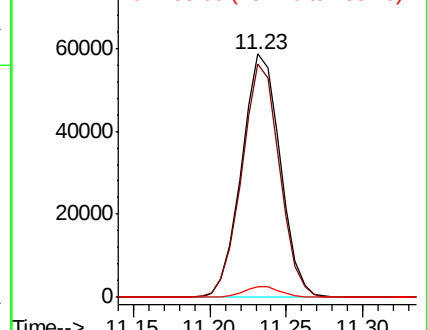
107 100

109 95.7 64.6 120.0

188 4.5 3.9 5.9



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



#52

Chlorobenzene

Concen: 24.895 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

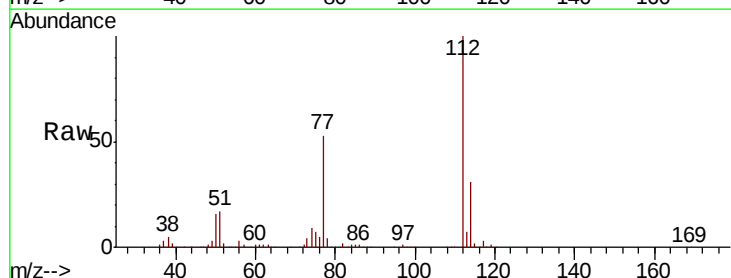
Tgt Ion:112 Resp: 396930

Ion Ratio Lower Upper

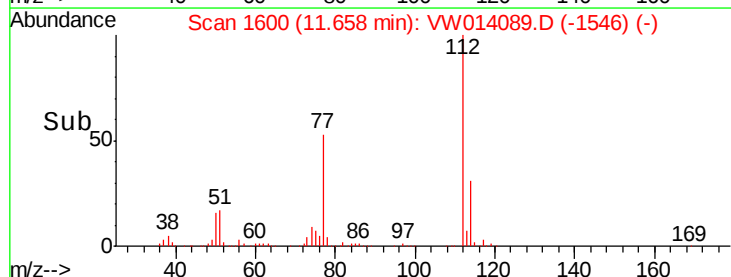
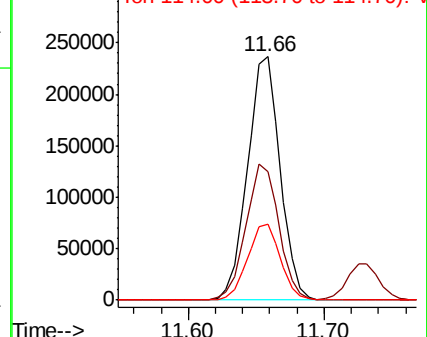
112 100

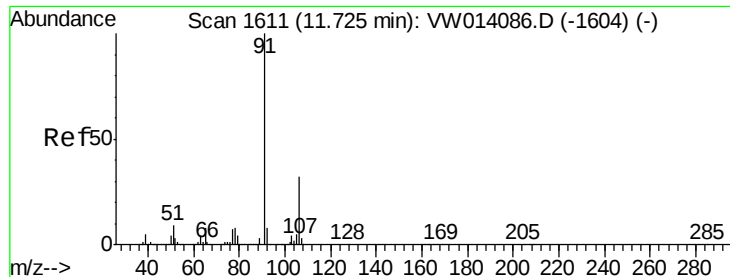
77 52.7 42.2 63.4

114 31.3 22.5 41.9



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 24.838 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.01 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

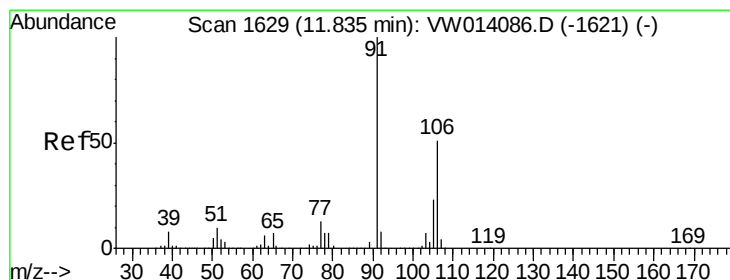
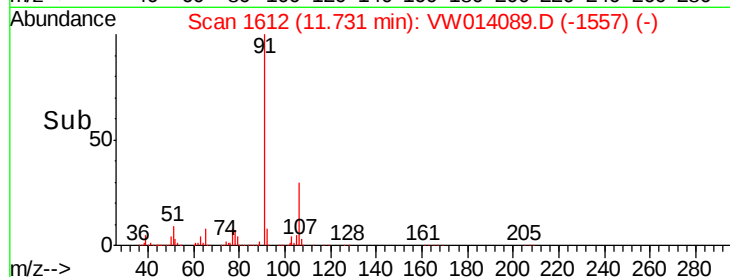
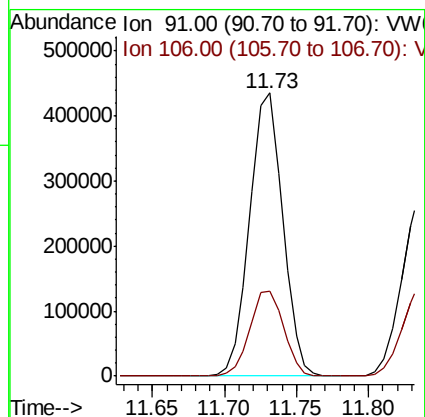
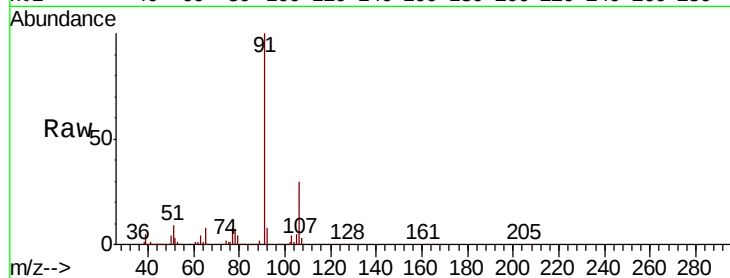
ClientSampled :

Tot Ion: 91 Resp: 693188

Ion Ratio Lower Upper

91 100

106 30.1 22.3 41.5



#54

m,p-Xylene

Concen: 24.531 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VW014089.D

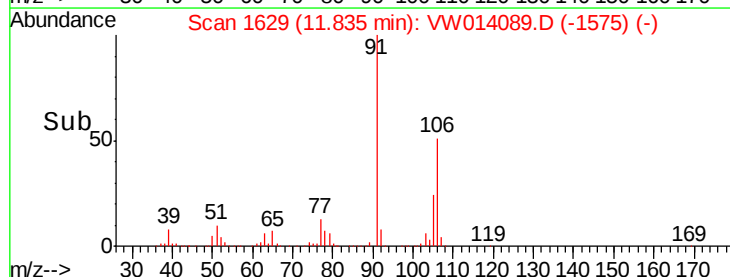
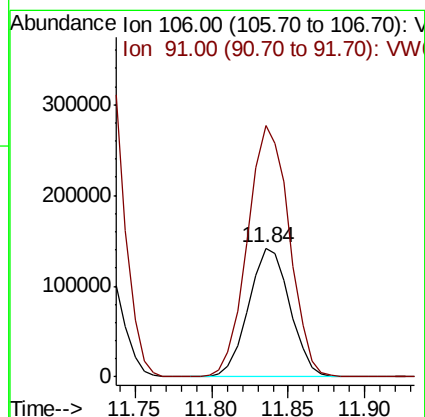
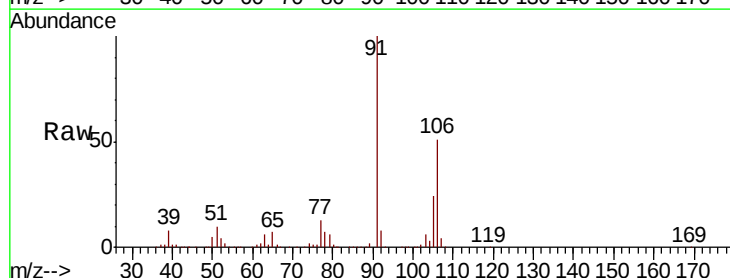
Acq: 20 Nov 2019 16:30

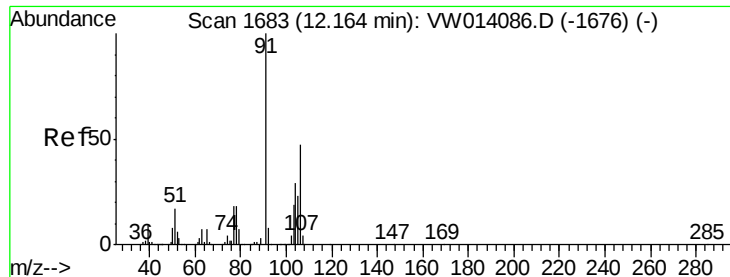
Tgt Ion: 106 Resp: 266055

Ion Ratio Lower Upper

106 100

91 195.5 138.7 257.5





#55

o-xylene

Concen: 24.945 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

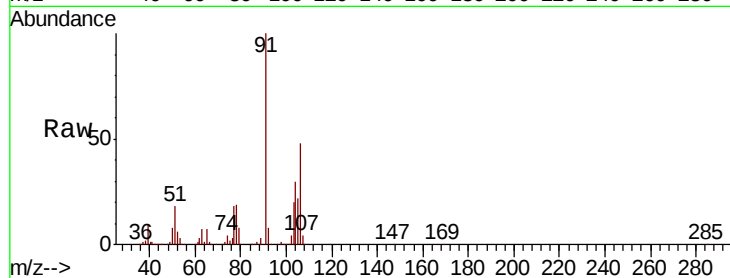
ClientSampleId :

Tot Ion:106 Resp: 253345

Ion Ratio Lower Upper

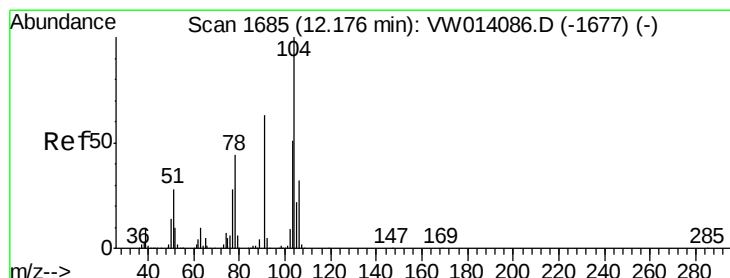
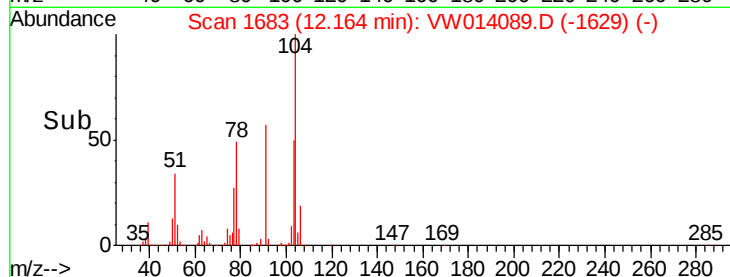
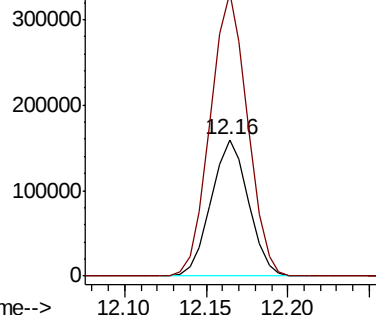
106 100

91 207.1 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 25.366 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VW014089.D

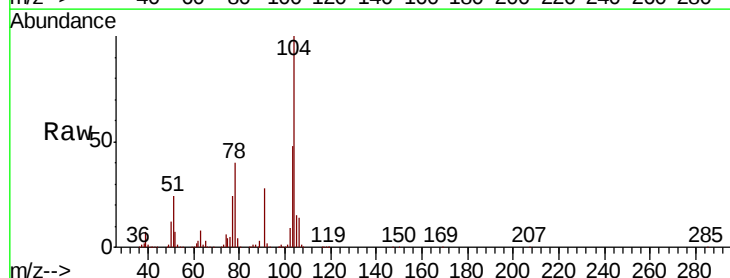
Acq: 20 Nov 2019 16:30

Tgt Ion:104 Resp: 435211

Ion Ratio Lower Upper

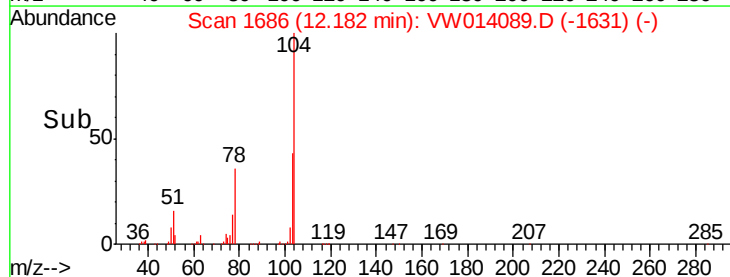
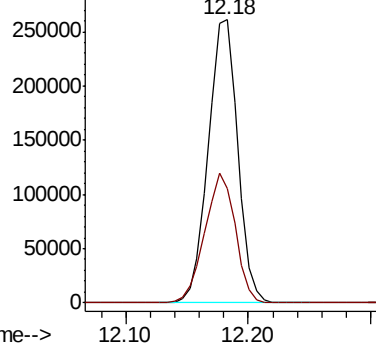
104 100

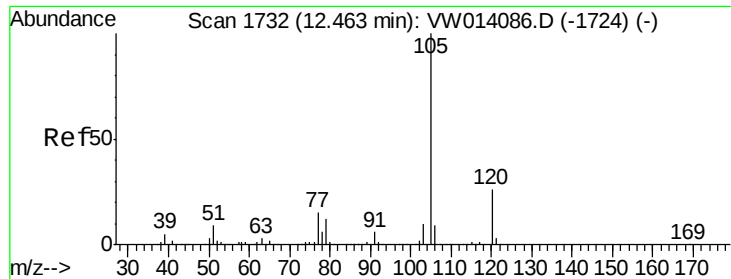
78 40.2 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 24.766 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

ClientSampleId :

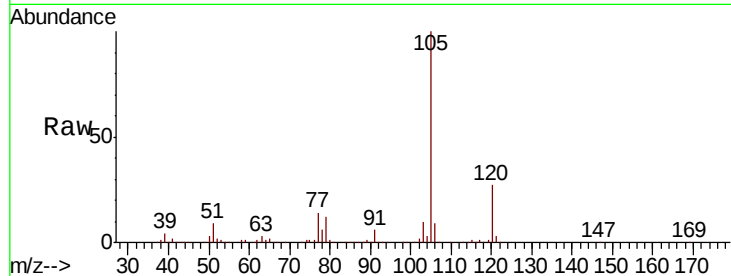
Tot Ion: 105 Resp: 691588

Ion Ratio Lower Upper

105 100

120 27.0 21.6 32.4

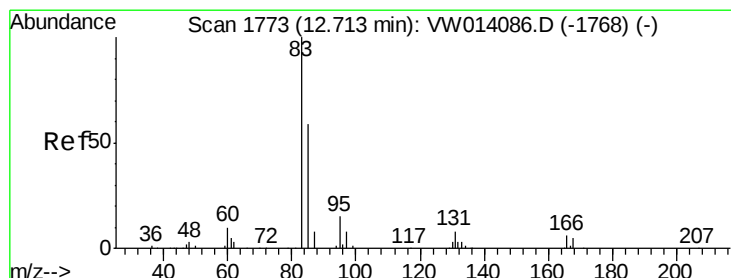
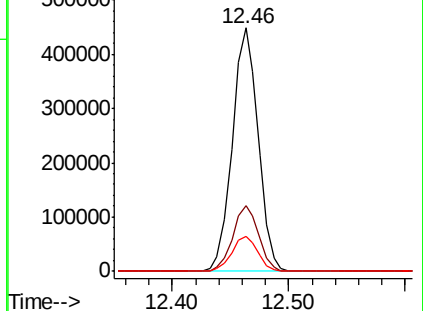
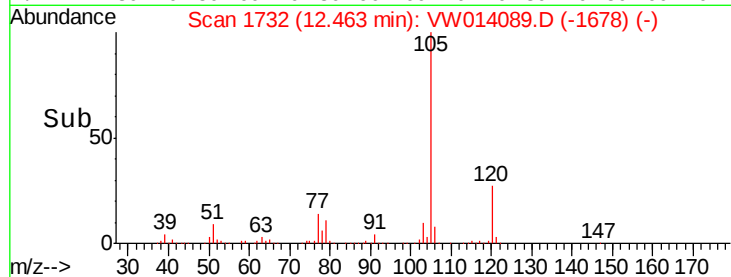
77 14.6 11.6 17.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 26.911 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

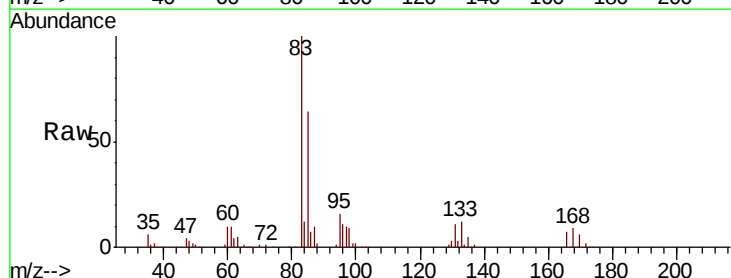
Tgt Ion: 83 Resp: 129629

Ion Ratio Lower Upper

83 100

85 63.7 43.7 81.1

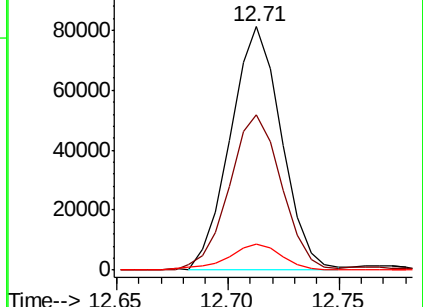
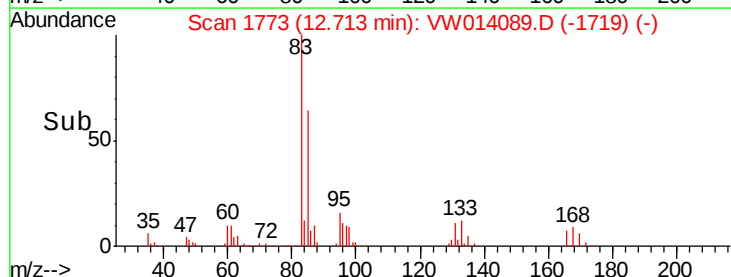
131 10.6 8.2 12.2

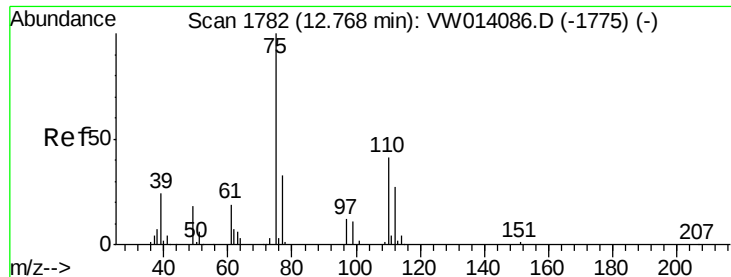


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 26.362 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

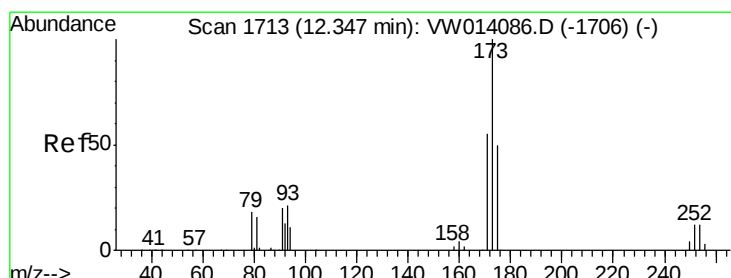
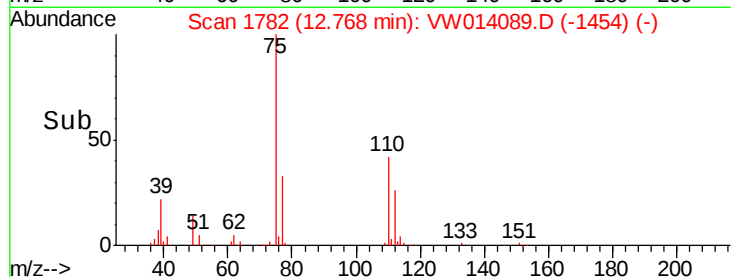
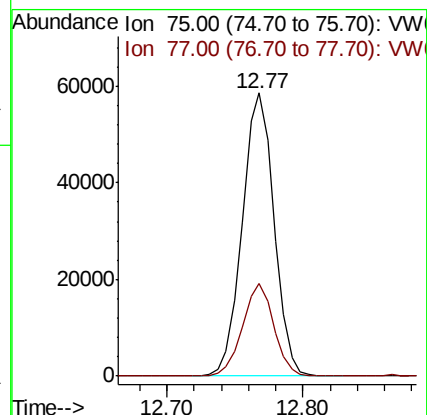
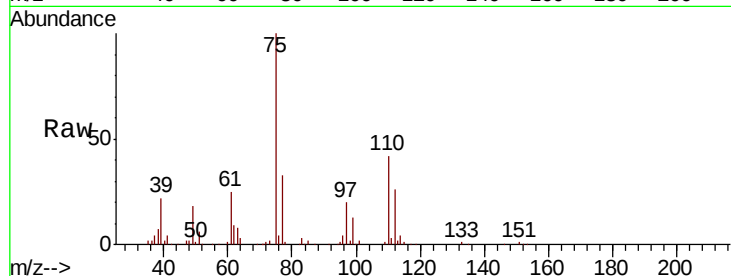
ClientSampleId :

Tot Ion: 75 Resp: 95505

Ion Ratio Lower Upper

75 100

77 32.1 25.9 38.9



#62

Bromoform

Concen: 25.221 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

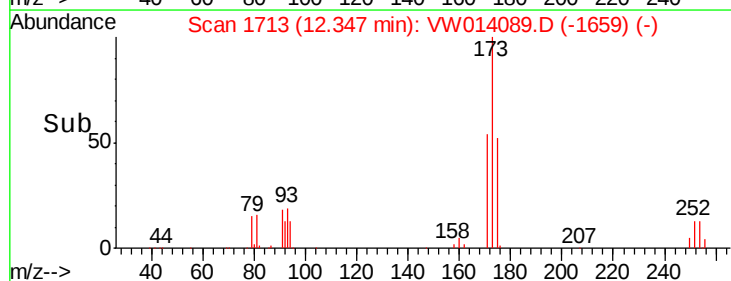
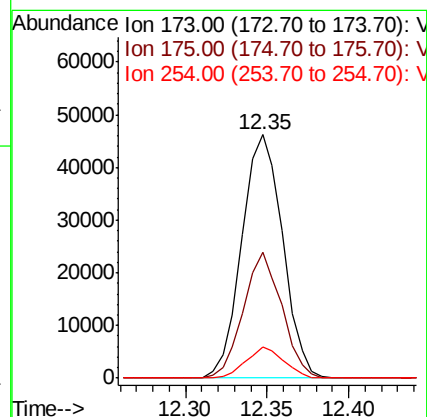
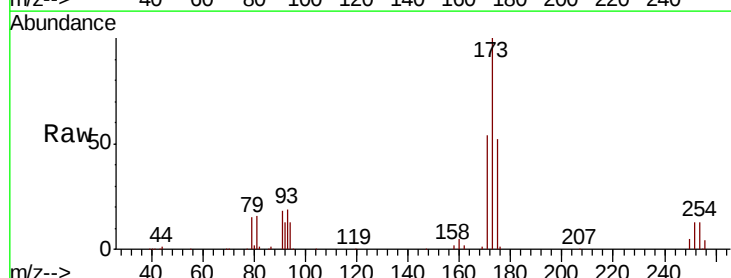
Tgt Ion: 173 Resp: 80707

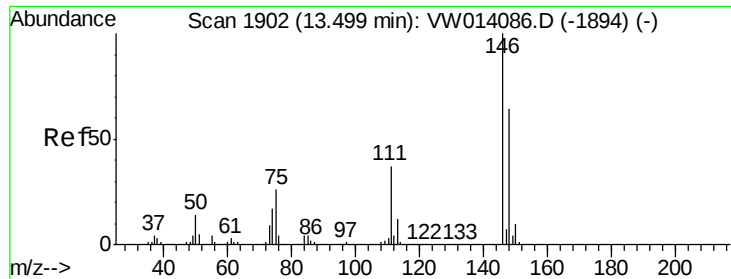
Ion Ratio Lower Upper

173 100

175 48.5 38.8 58.2

254 11.8 9.4 14.0

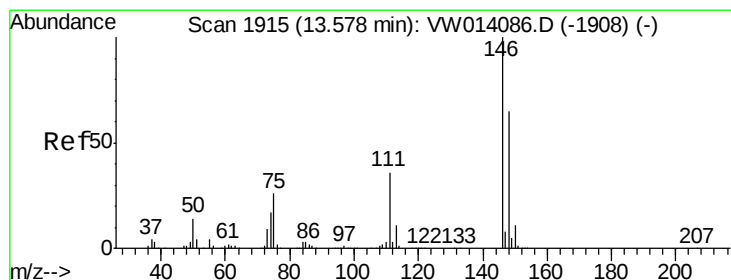
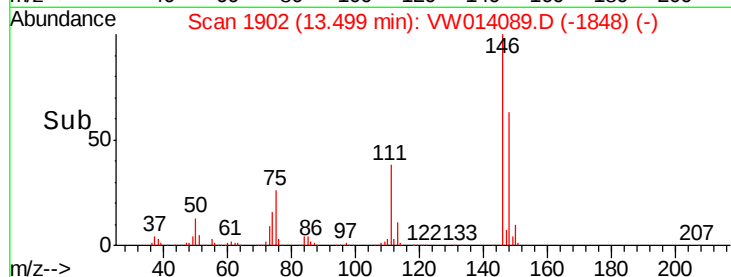
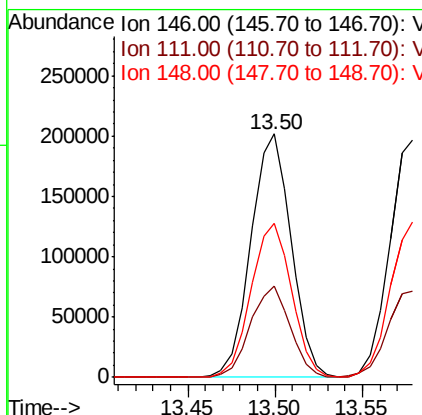
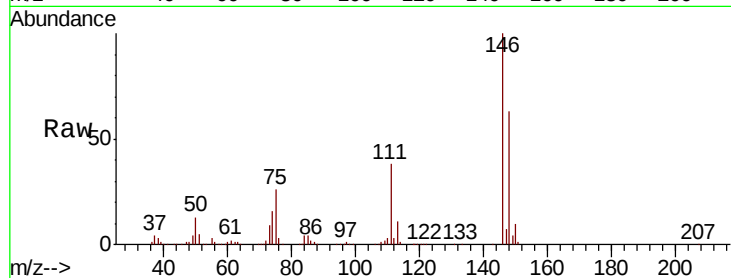




#63
 1,3-Dichlorobenzene
 Concen: 23.511 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW014089.D
 Acq: 20 Nov 2019 16:30

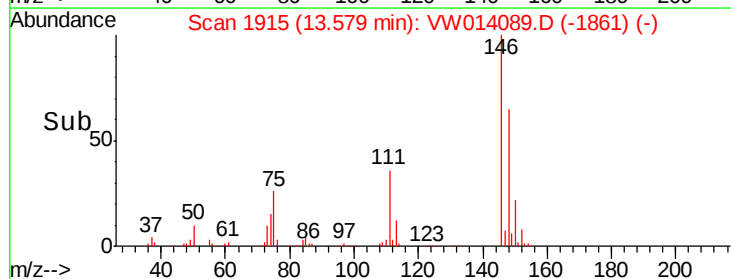
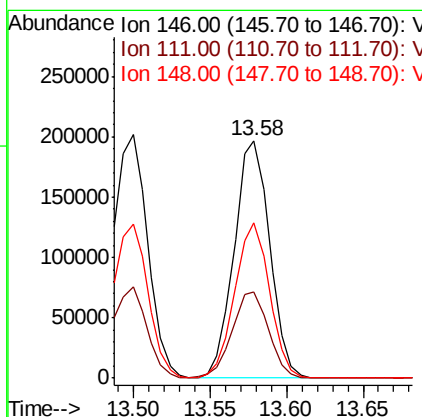
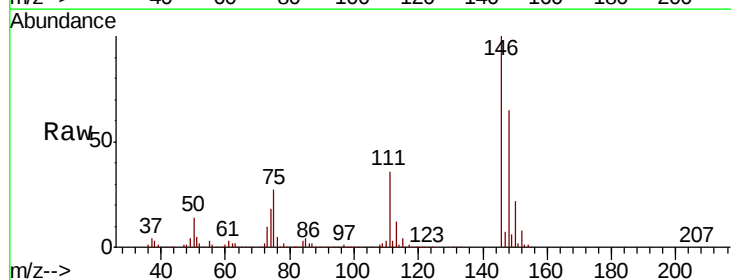
Instrument :
 MSVOA_W
 ClientSampleId :

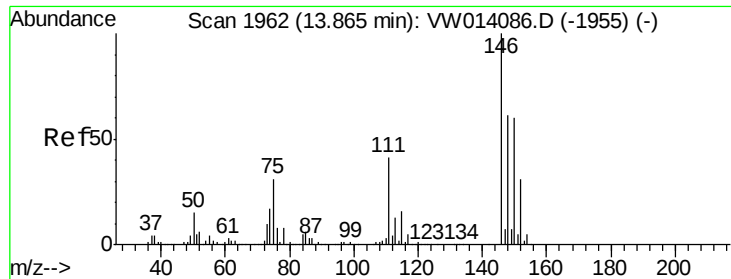
Tot Ion:146 Resp: 322341
 Ion Ratio Lower Upper
 146 100
 111 37.6 26.0 48.2
 148 63.0 44.7 82.9



#64
 1,4-Dichlorobenzene
 Concen: 23.434 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW014089.D
 Acq: 20 Nov 2019 16:30

Tgt Ion:146 Resp: 317436
 Ion Ratio Lower Upper
 146 100
 111 36.5 24.9 46.3
 148 65.4 43.9 81.5





#65

1,2-Dichlorobenzene

Concen: 23.955 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.01 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

ClientSampleId :

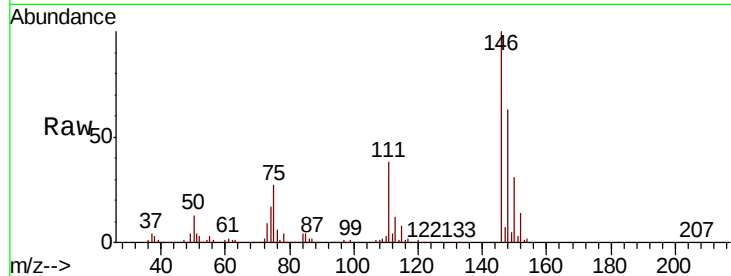
Tot Ion:146 Resp: 290838

Ion Ratio Lower Upper

146 100

111 38.1 30.5 45.7

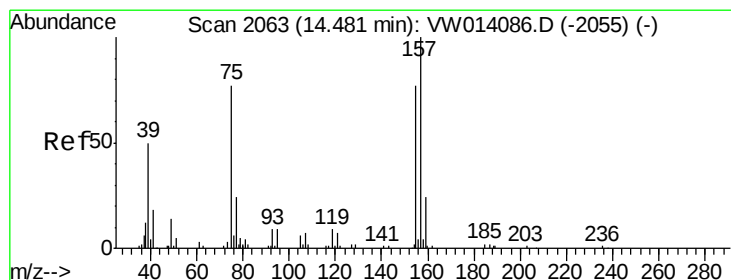
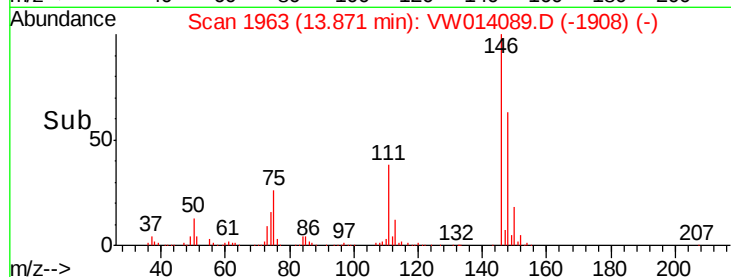
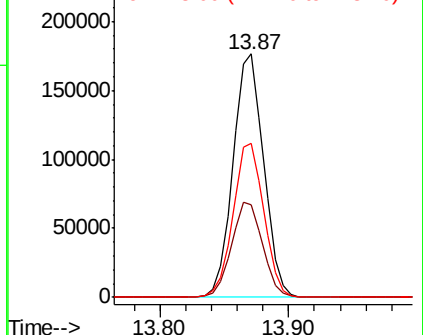
148 63.2 49.4 74.2



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



#66

1,2-Dibromo-3-chloropropane

Concen: 25.175 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

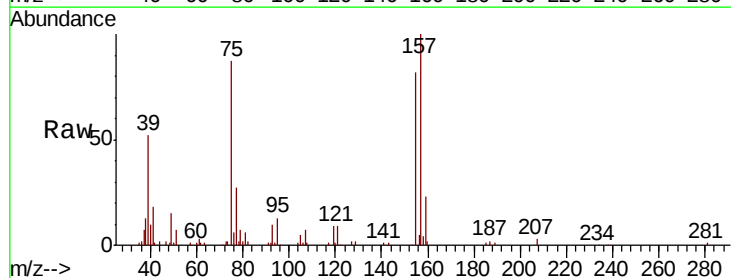
Tgt Ion: 75 Resp: 20815

Ion Ratio Lower Upper

75 100

157 114.7 96.9 145.3

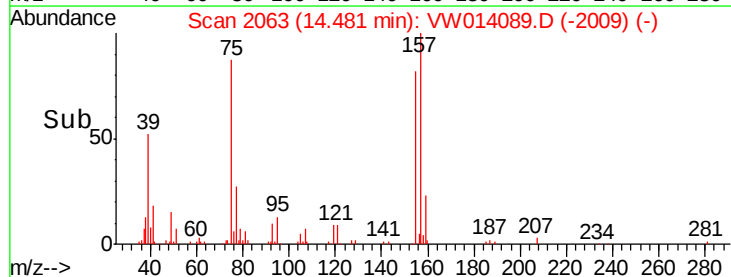
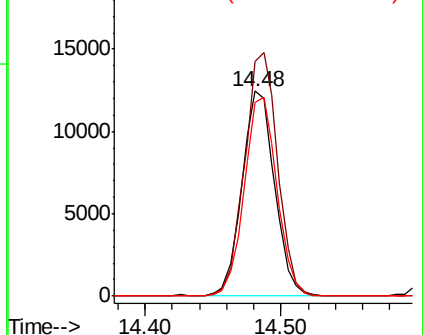
155 94.5 82.9 124.3

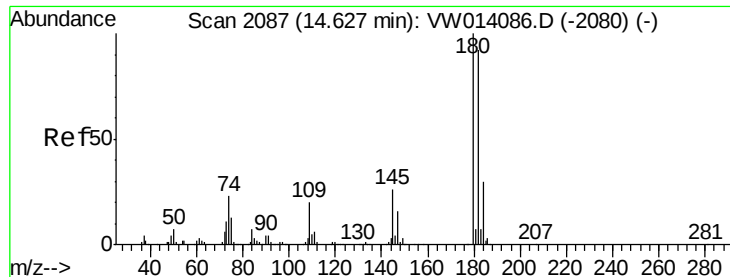


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

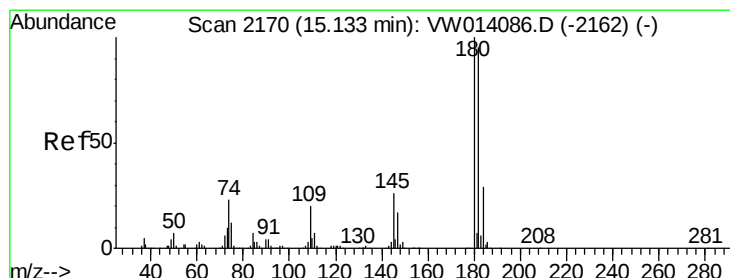
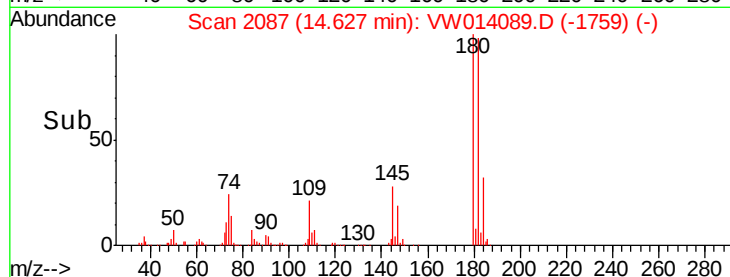
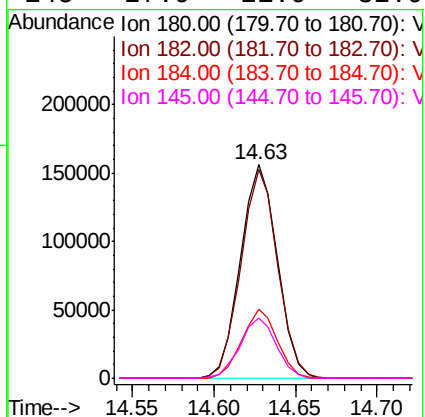
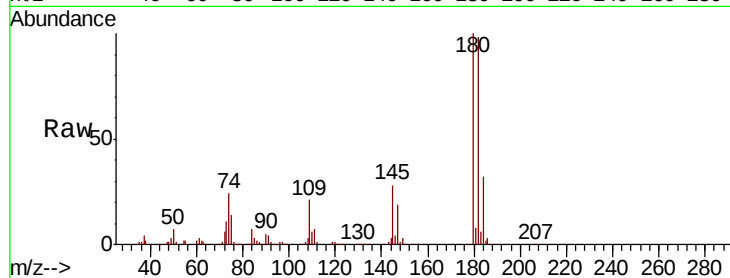




#67
 1,3,5-Trichlorobenzene
 Concen: 23.492 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014089.D
 Acq: 20 Nov 2019 16:30

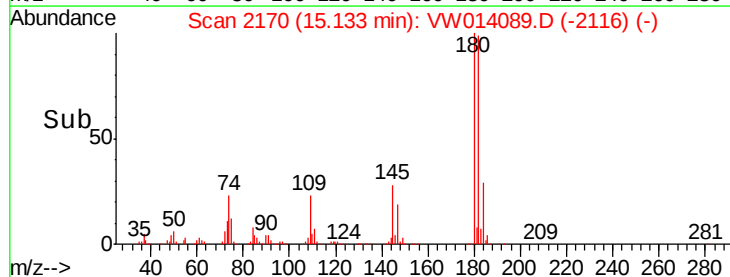
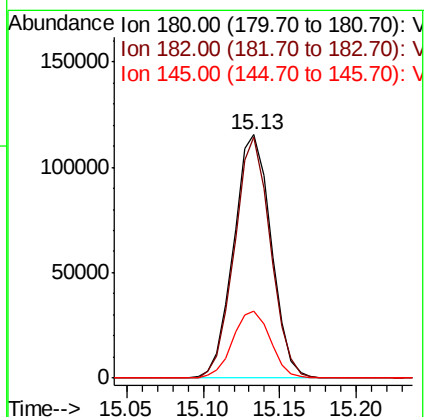
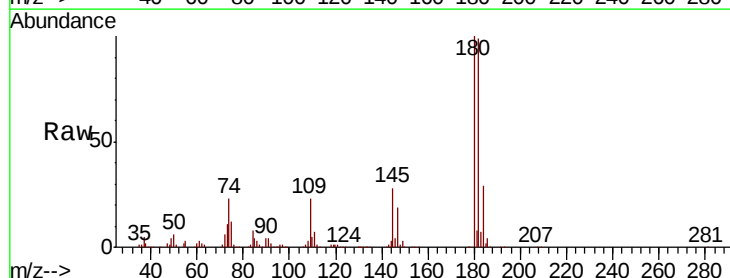
Instrument :
 MSVOA_W
 ClientSampleId :

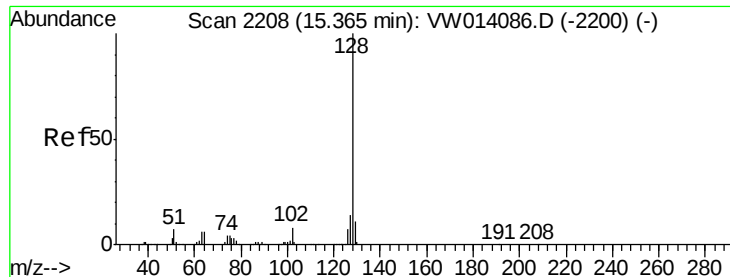
Tot Ion:180	Resp:	245459
Ion Ratio	Lower	Upper
180	100	
182	97.2	76.2 114.2
184	31.2	24.3 36.5
145	27.9	21.9 32.9



#68
 1,2,4-trichlorobenzene
 Concen: 23.892 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW014089.D
 Acq: 20 Nov 2019 16:30

Tgt Ion:180	Resp:	196292
Ion Ratio	Lower	Upper
180	100	
182	95.1	75.8 113.8
145	27.8	22.4 33.6





#69

Naphthalene

Concen: 24.238 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

Instrument :

MSVOA_W

ClientSampled :

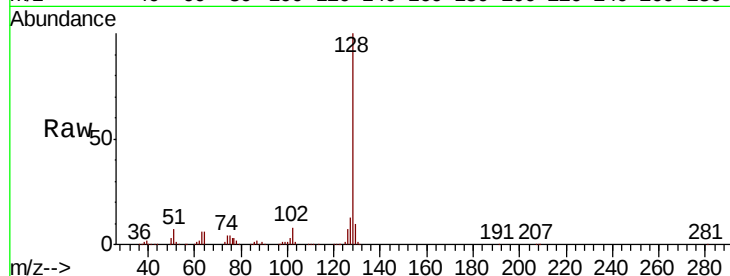
Tot Ion:128 Resp: 353777

Ion Ratio Lower Upper

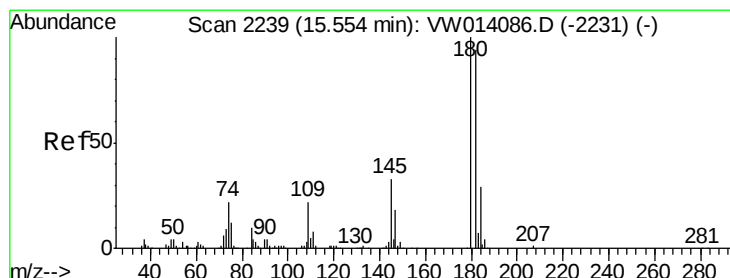
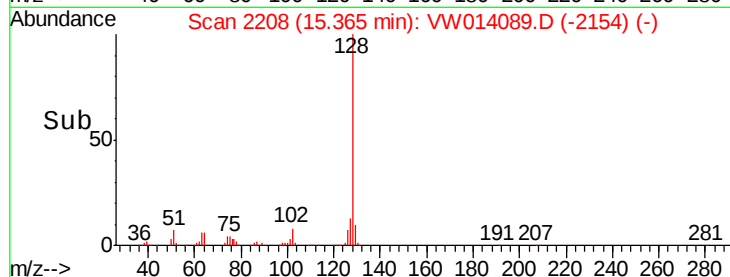
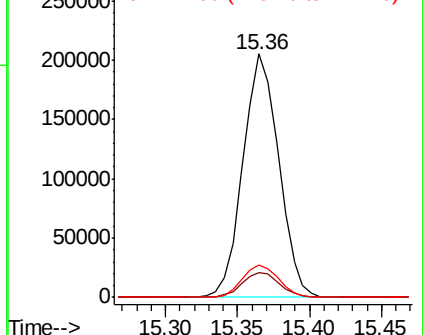
128 100

129 10.6 8.8 13.2

127 13.3 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 24.669 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014089.D

Acq: 20 Nov 2019 16:30

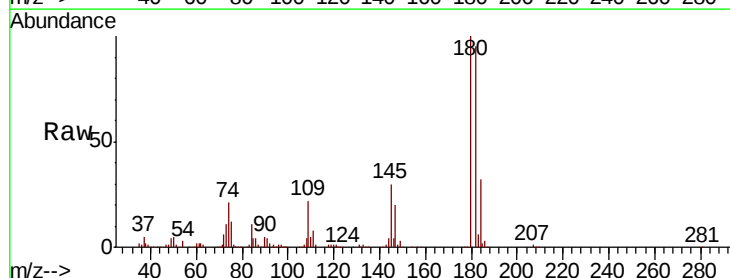
Tgt Ion:180 Resp: 178868

Ion Ratio Lower Upper

180 100

182 95.1 75.8 113.6

145 29.4 24.0 36.0



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

