

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111519\
 Data File : VW014033.D
 Acq On : 15 Nov 2019 11:06
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 16 04:00:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM111119S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Nov 15 13:09:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	336727	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	318006	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	194854	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	131301	24.44	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.76%
7) Chloroethane-d5	2.89	69	110615	25.40	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	101.60%
10) 1,1-Dichloroethene-d2	4.02	63	265087	24.04	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	96.16%
20) 2-Butanone-d5	7.07	46	67628	43.33	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	86.66%
24) Chloroform-d	7.65	84	268999	25.98	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	103.92%
26) 1,2-Dichloroethane-d4	8.30	65	130746	25.12	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.48%
29) Benzene-d6	8.27	84	564751	25.03	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.12%
33) 1,2-Dichloropropane-d6	9.27	67	166015	25.12	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	100.48%
37) Toluene-d8	10.32	98	525037	24.54	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	98.16%
38) trans-1,3-Dichloropropene-	10.57	79	69671	24.61	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	98.44%
39) 2-Hexanone-d5	10.93	63	56577	45.14	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	90.28%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	117457	23.53	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.12%
61) 1,2-Dichlorobenzene-d4	13.85	152	180379	23.04	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.16%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	85275	21.294	ug/L 96
3) Chloromethane	2.21	50	75108	21.116	ug/L 96
5) Vinyl chloride	2.36	62	138634	24.962	ug/L 95
6) Bromomethane	2.78	94	85389	24.833	ug/L 99
8) Chloroethane	2.92	64	83736	25.347	ug/L 94
9) Trichlorofluoromethane	3.25	101	77605	20.492	ug/L 100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	137622	24.610	ug/L 98
12) 1,1-Dichloroethene	4.04	96	137941	24.267	ug/L 94
13) Acetone	4.11	43	58954	37.120	ug/L 99
14) Carbon disulfide	4.38	76	394566	24.388	ug/L 99
15) Methyl Acetate	4.66	43	55479	21.590	ug/L 98
16) Methylene chloride	4.92	84	146158	22.546	ug/L 96
17) Methyl tert-butyl Ether	5.42	73	165016	22.502	ug/L 99
18) trans-1,2-Dichloroethene	5.42	96	146148	24.655	ug/L 98
19) 1,1-Dichloroethane	6.21	63	253879	25.427	ug/L 99
21) 2-Butanone	7.17	43	79159	38.796	ug/L 100
22) cis-1,2-Dichloroethene	7.17	96	155519	24.932	ug/L 98

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

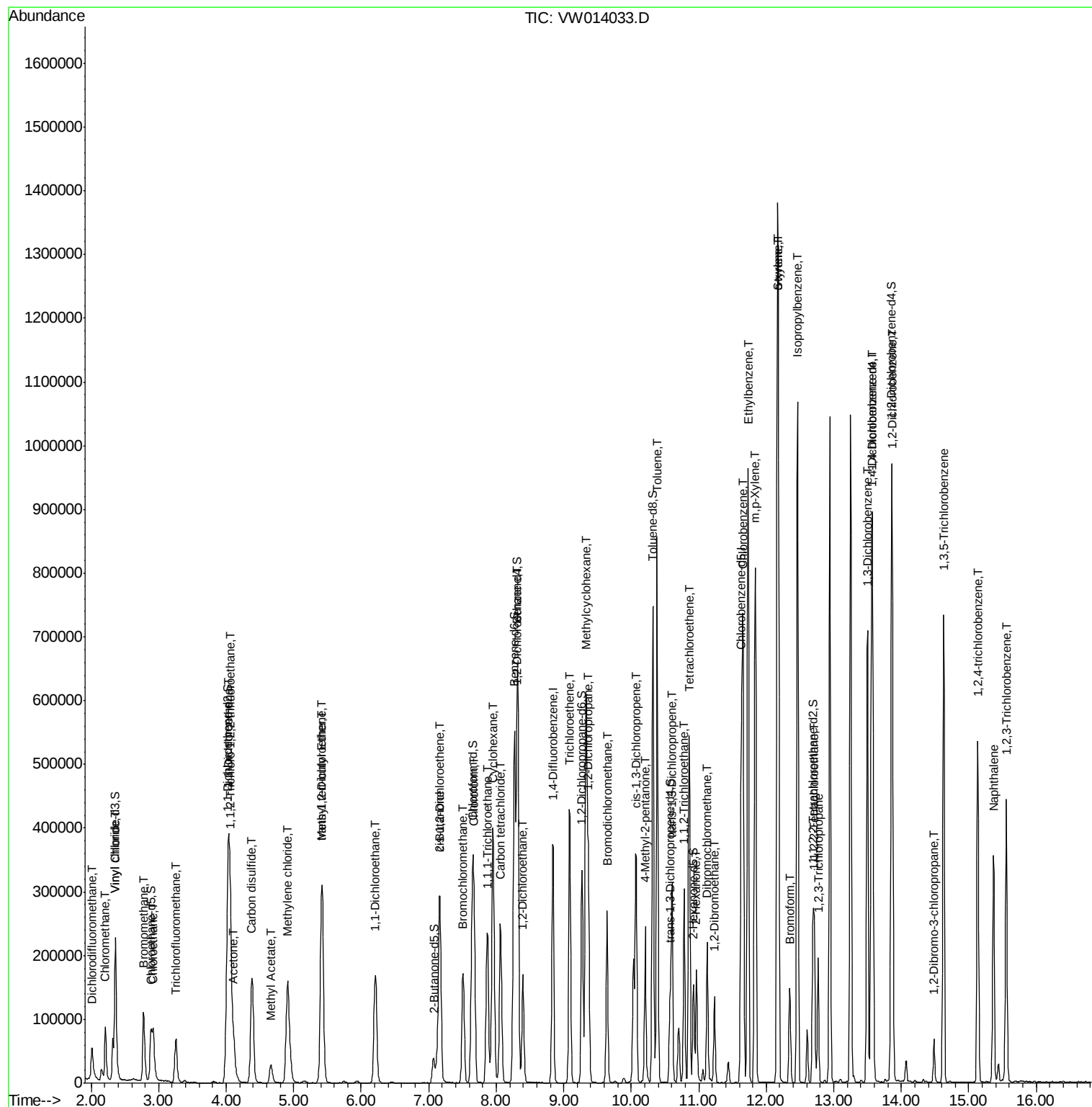
23) Bromochloromethane	7.51	128	68031	24.846	ug/L	91
25) Chloroform	7.67	83	253478	25.851	ug/L	100
27) 1,2-Dichloroethane	8.40	62	151688	25.552	ug/L	97
30) Cyclohexane	7.95	56	242990	23.877	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	200448	25.152	ug/L	99
32) Carbon tetrachloride	8.06	117	194547	25.430	ug/L	100
34) Benzene	8.32	78	586826	25.158	ug/L	100
35) Trichloroethene	9.09	95	152520	24.512	ug/L	99
36) Methylcyclohexane	9.33	83	268231	24.043	ug/L	100
40) 1,2-Dichloropropane	9.37	63	142062	25.300	ug/L	100
41) Bromodichloromethane	9.64	83	176985	26.072	ug/L	95
42) cis-1,3-Dichloropropene	10.07	75	222163	25.071	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	156500	42.213	ug/L	100
44) Toluene	10.38	91	634880	24.964	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	172258	24.582	ug/L	95
46) 1,1,2-Trichloroethane	10.79	97	98447	23.861	ug/L	99
47) Tetrachloroethene	10.86	164	138211	24.921	ug/L	97
49) 2-Hexanone	10.96	43	112347	42.032	ug/L	97
50) Dibromochloromethane	11.13	129	123231	25.411	ug/L	100
51) 1,2-Dibromoethane	11.23	107	94001	23.482	ug/L #	93
52) Chlorobenzene	11.65	112	395046	24.778	ug/L	96
53) Ethylbenzene	11.73	91	698353	25.024	ug/L	100
54) m,p-Xylene	11.84	106	273835	25.249	ug/L	96
55) o-xylene	12.16	106	258698	25.472	ug/L	98
56) Styrene	12.18	104	441371	25.726	ug/L	100
57) Isopropylbenzene	12.46	105	703649	25.199	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	112294	23.313	ug/L	96
59) 1,2,3-Trichloropropane	12.77	75	80942	22.343	ug/L	99
62) Bromoform	12.35	173	72717	22.772	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	321845	23.524	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	321607	23.791	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	284719	23.500	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.48	75	17288	20.953	ug/L	85
67) 1,3,5-Trichlorobenzene	14.63	180	252210	24.188	ug/L	98
68) 1,2,4-trichlorobenzene	15.13	180	190573	23.244	ug/L	99
69) Naphthalene	15.36	128	310692	21.331	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	167400	23.136	ug/L	98

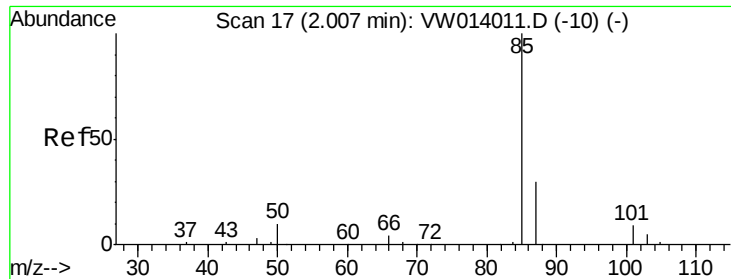
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 21.294 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

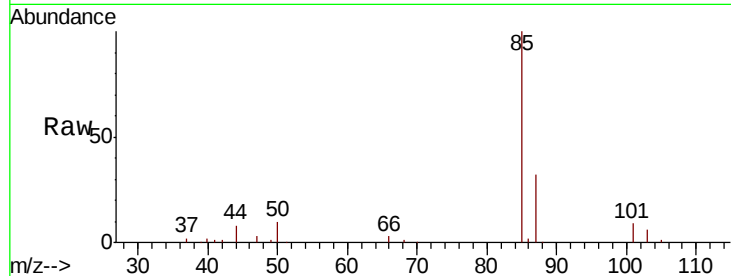
ClientSampleId :

Tot Ion: 85 Resp: 85275

Ion Ratio Lower Upper

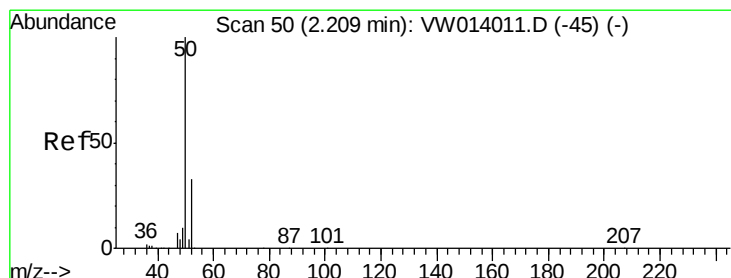
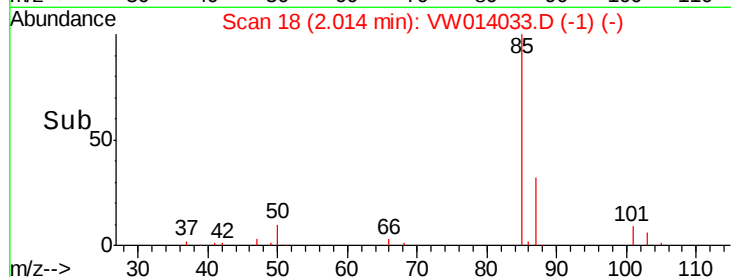
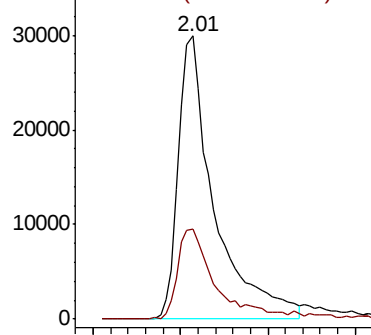
85 100

87 29.3 22.1 41.1



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.116 ug/L

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW014033.D

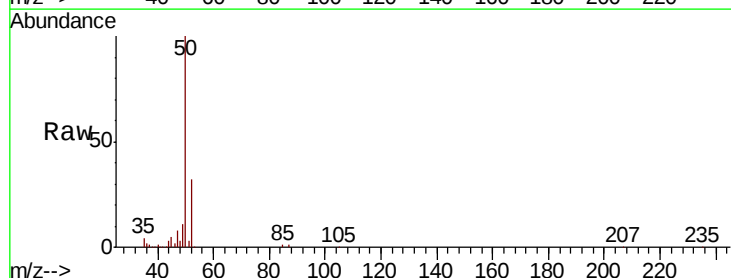
Acq: 15 Nov 2019 11:06

Tgt Ion: 50 Resp: 75108

Ion Ratio Lower Upper

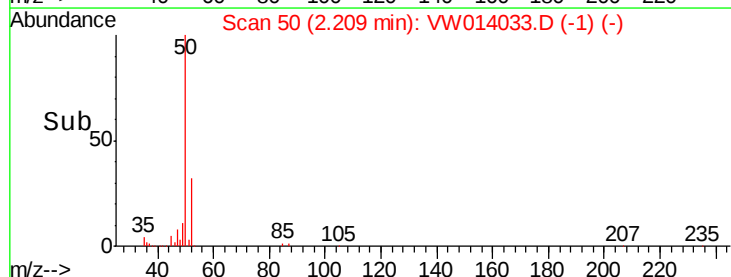
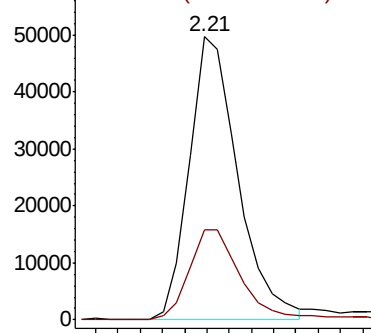
50 100

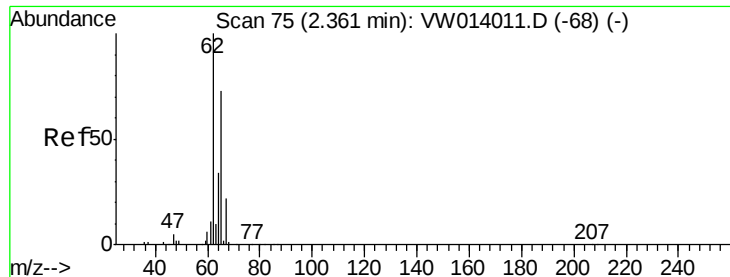
52 31.6 23.8 44.2



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 24.962 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

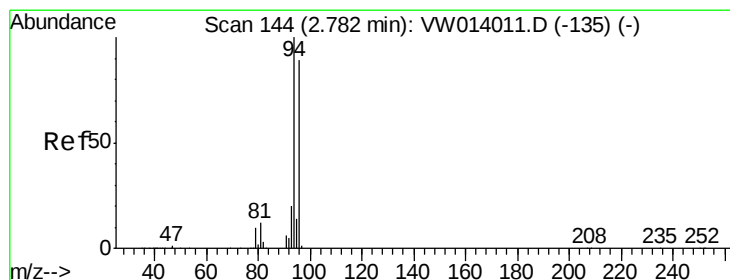
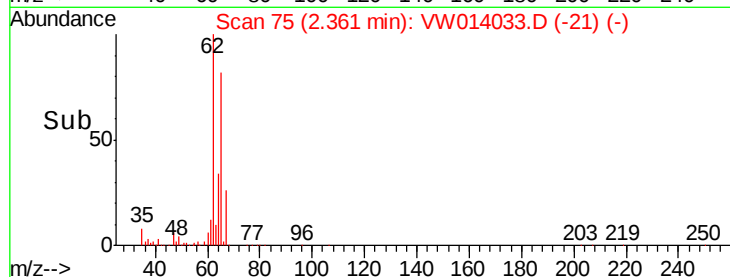
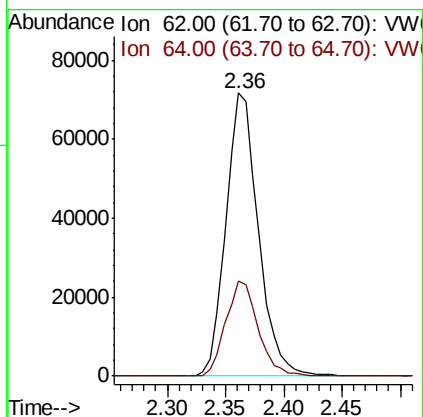
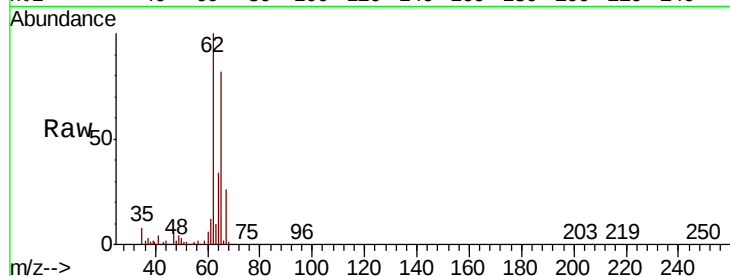
ClientSampleId :

Tot Ion: 62 Resp: 138634

Ion Ratio Lower Upper

62 100

64 33.8 21.8 40.4



#6

Bromomethane

Concen: 24.833 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW014033.D

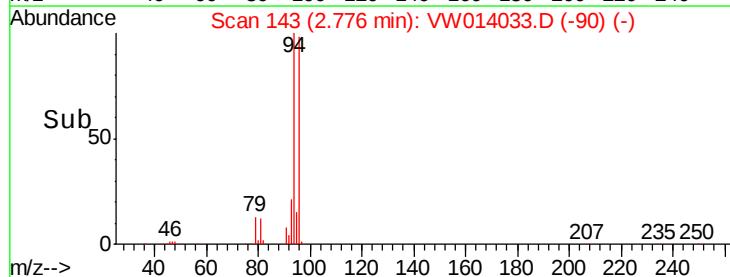
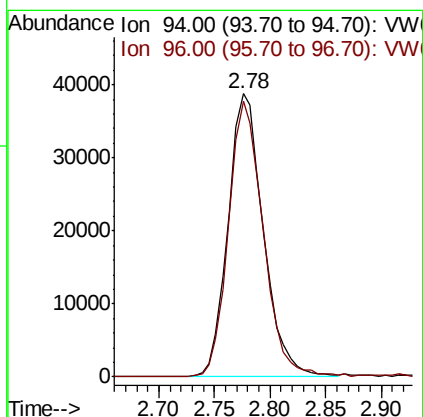
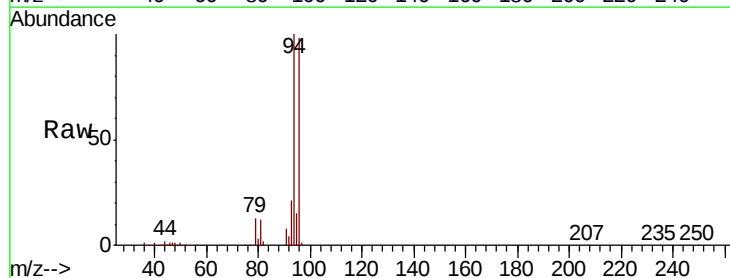
Acq: 15 Nov 2019 11:06

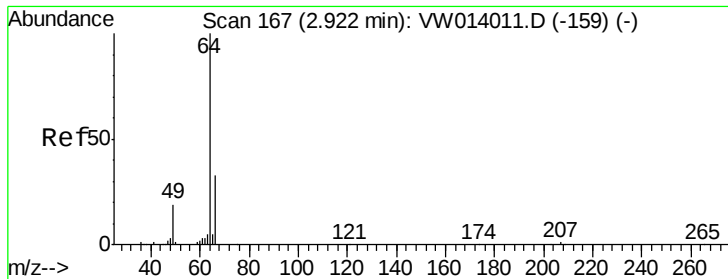
Tgt Ion: 94 Resp: 85389

Ion Ratio Lower Upper

94 100

96 95.1 9.4 178.8





#8

Chloroethane

Concen: 25.347 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

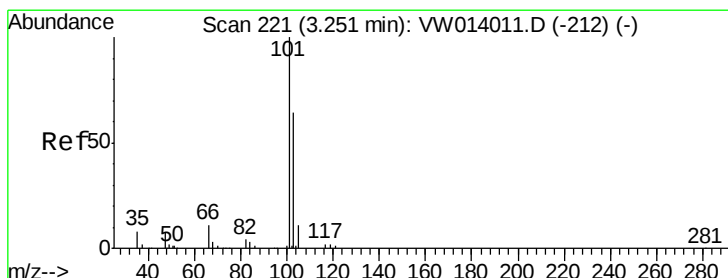
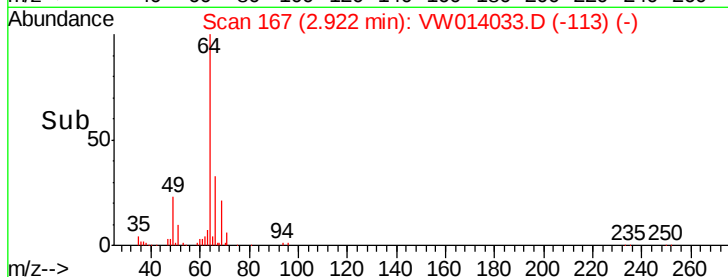
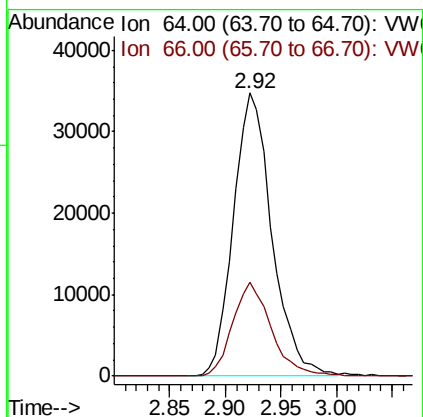
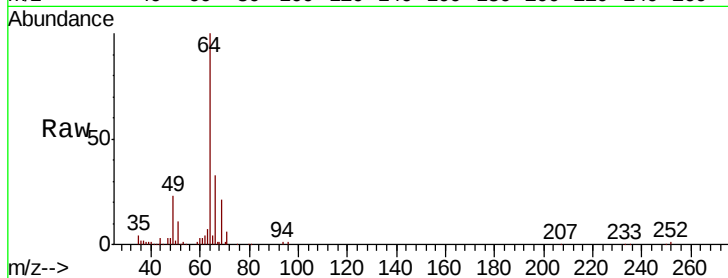
ClientSampleId :

Tot Ion: 64 Resp: 83736

Ion Ratio Lower Upper

64 100

66 33.3 21.2 39.4



#9

Trichlorofluoromethane

Concen: 20.492 ug/L

RT: 3.25 min Scan# 221

Delta R.T. 0.00 min

Lab File: VW014033.D

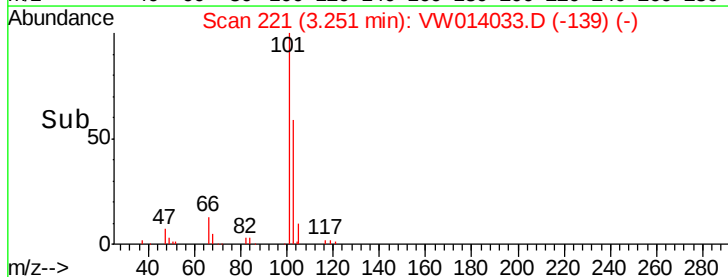
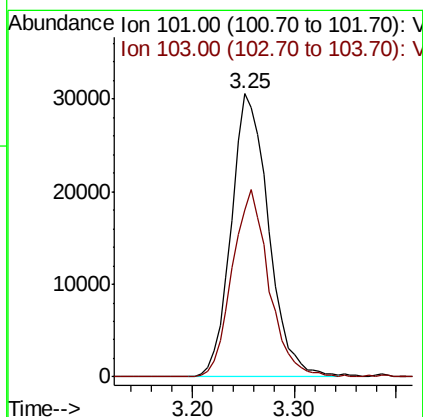
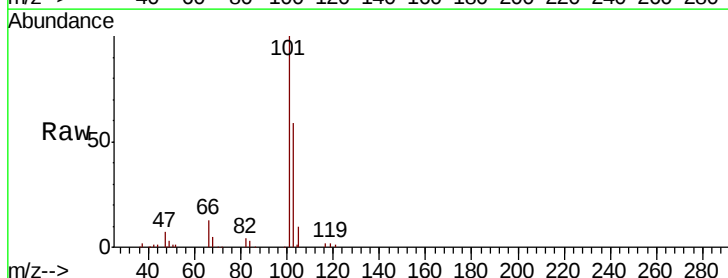
Acq: 15 Nov 2019 11:06

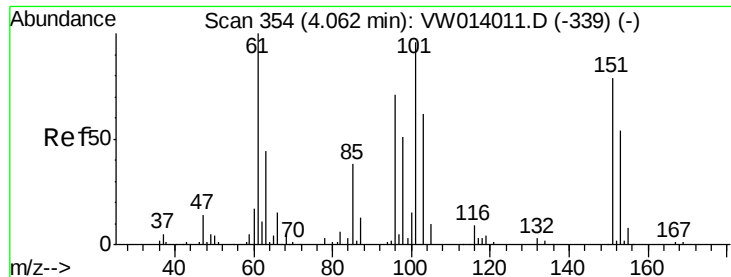
Tgt Ion: 101 Resp: 77605

Ion Ratio Lower Upper

101 100

103 64.9 45.4 84.2





#11

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

Concen: 24.610 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

ClientSampled :

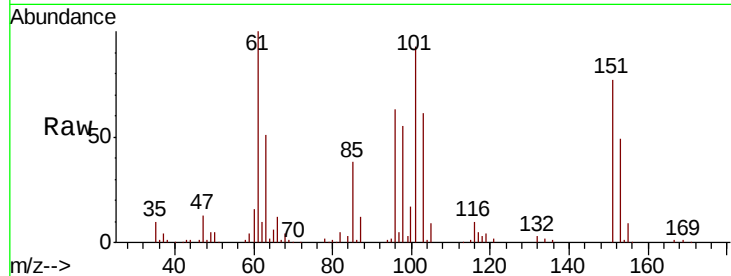
Tot Ion:101 Resp: 137622

Ion Ratio Lower Upper

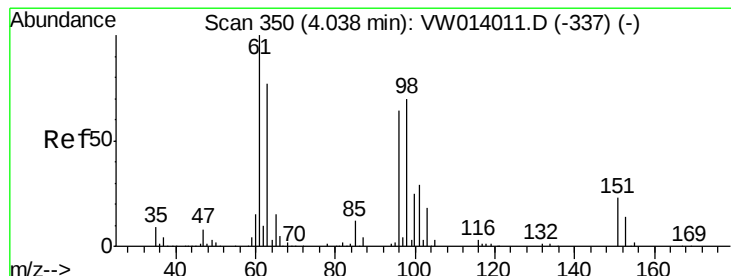
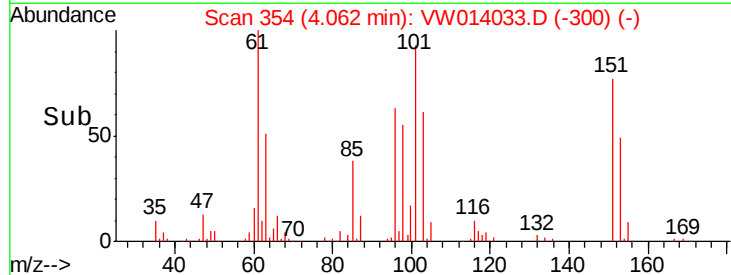
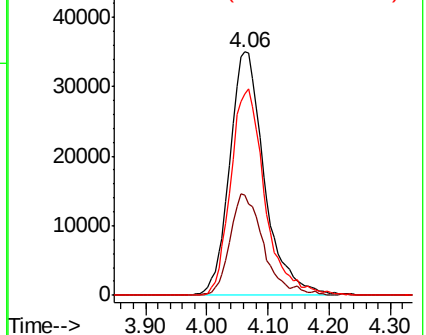
101 100

85 38.7 31.4 47.2

151 81.5 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: 24.267 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

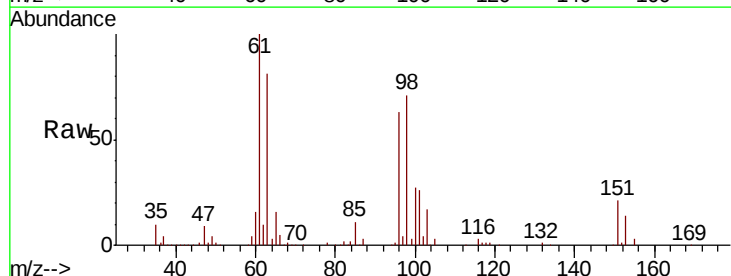
Tgt Ion: 96 Resp: 137941

Ion Ratio Lower Upper

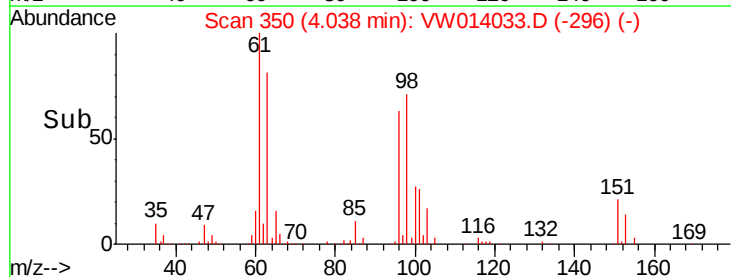
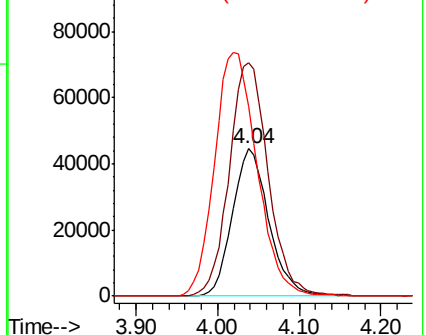
96 100

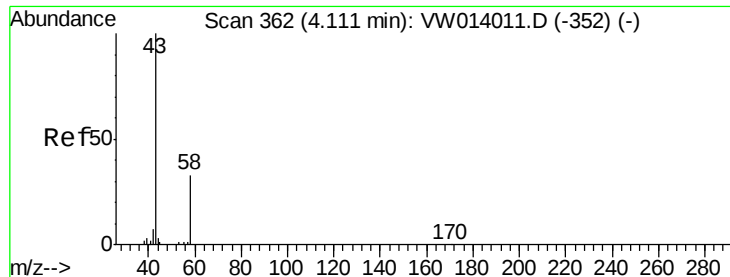
61 158.1 109.8 204.0

63 128.5 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: 37.120 ug/L

RT: 4.11 min Scan# 362

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

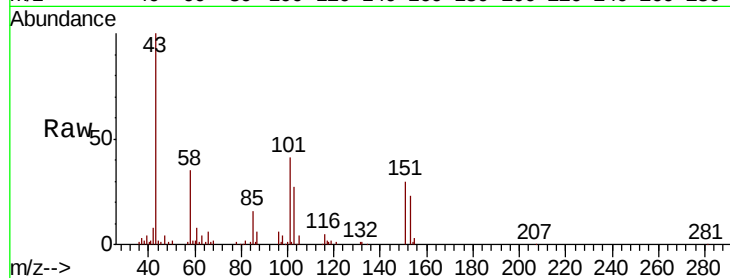
ClientSampled :

Tot Ion: 43 Resp: 58954

Ion Ratio Lower Upper

43 100

58 32.2 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.11

20000

15000

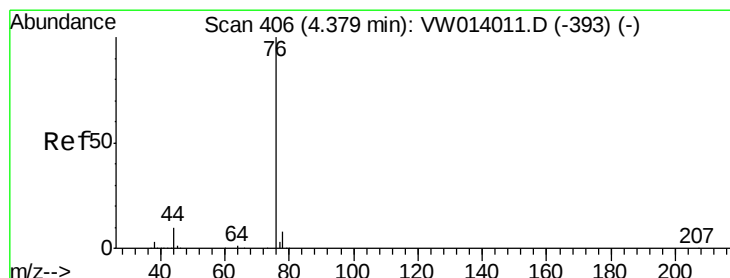
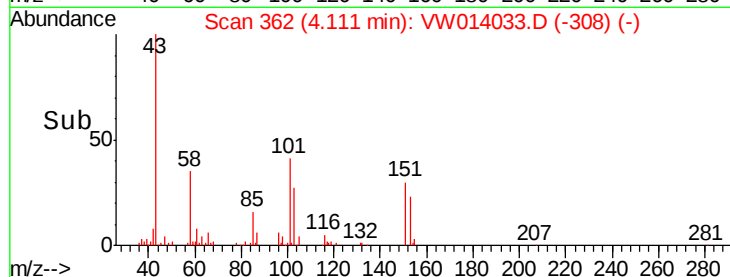
10000

5000

0

Time-->

4.00 4.10 4.20



#14

Carbon disulfide

Concen: 24.388 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW014033.D

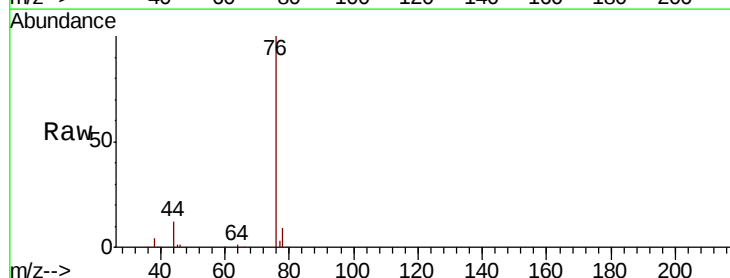
Acq: 15 Nov 2019 11:06

Tgt Ion: 76 Resp: 394566

Ion Ratio Lower Upper

76 100

78 9.3 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.38

150000

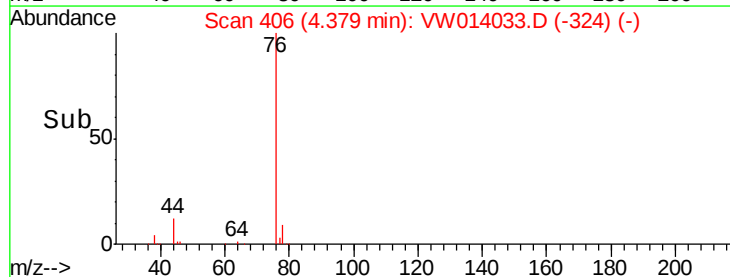
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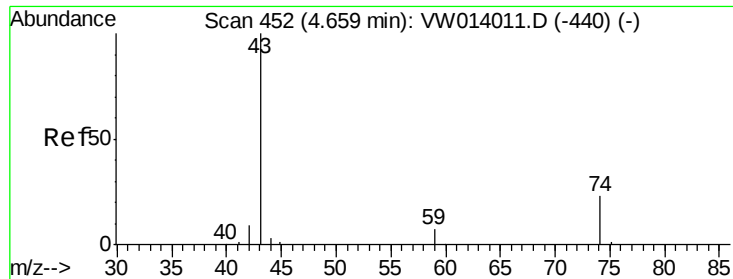
50000

0

Time-->

4.20 4.30 4.40 4.50

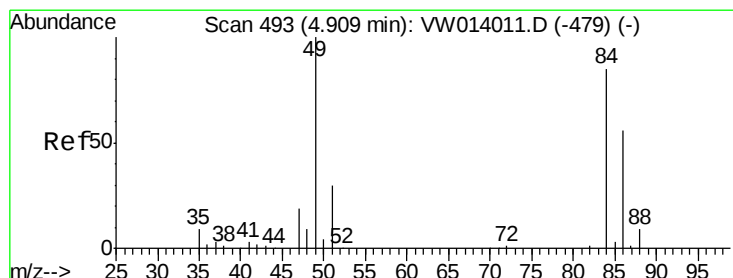
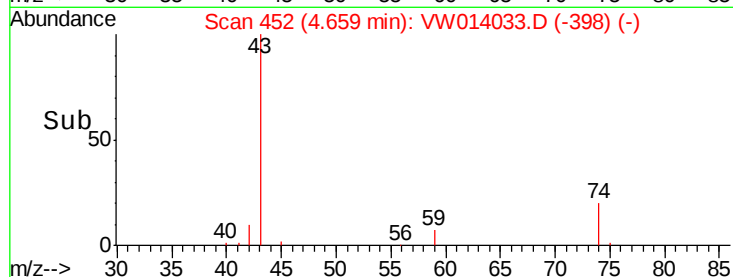
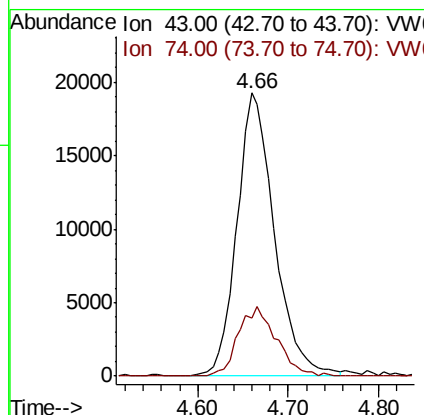
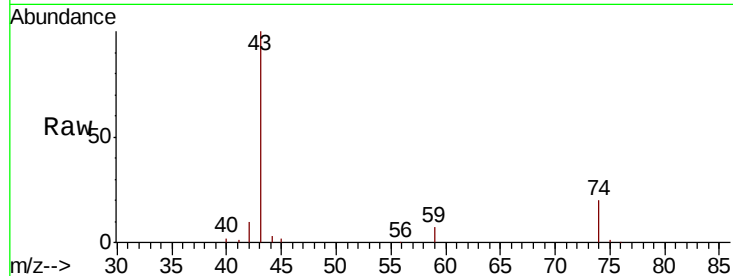




#15
Methvl Acetate
Concen: 21.590 ug/L
RT: 4.66 min Scan# 452
Delta R.T. 0.00 min
Lab File: VW014033.D
Acq: 15 Nov 2019 11:06

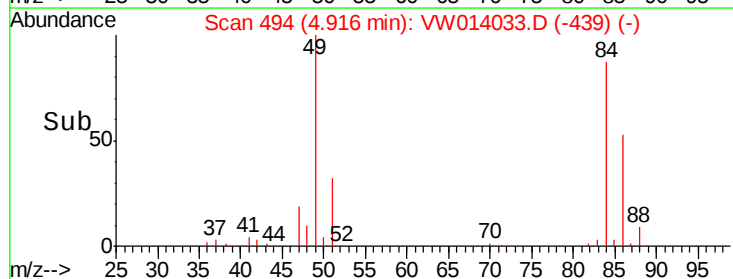
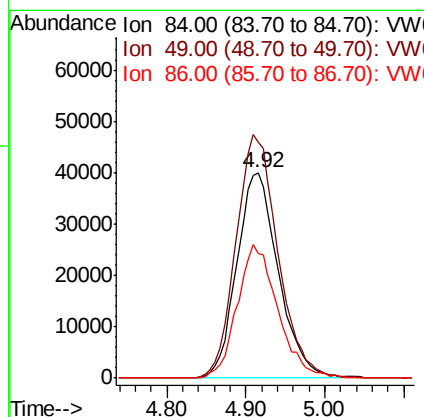
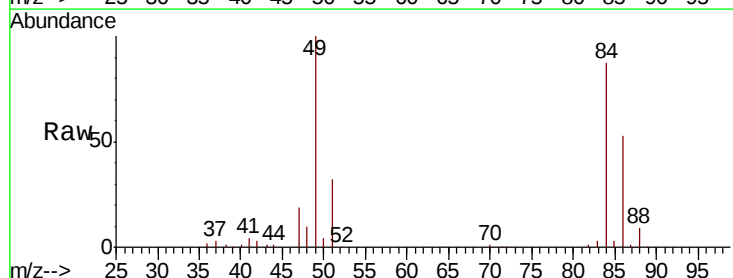
Instrument :
MSVOA_W
ClientSampleId :

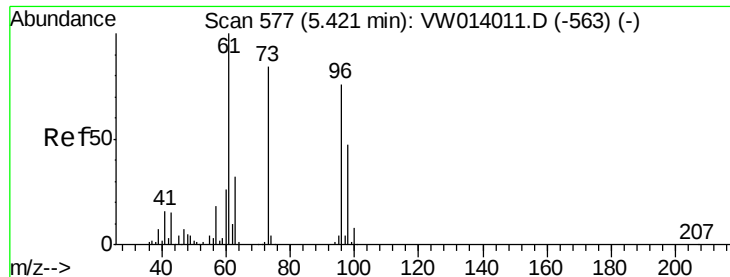
Tot Ion: 43 Resp: 55479
Ion Ratio Lower Upper
43 100
74 24.9 19.3 28.9



#16
Methylene chloride
Concen: 22.546 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW014033.D
Acq: 15 Nov 2019 11:06

Tgt Ion: 84 Resp: 146158
Ion Ratio Lower Upper
84 100
49 115.3 84.2 156.4
86 60.9 43.7 81.1

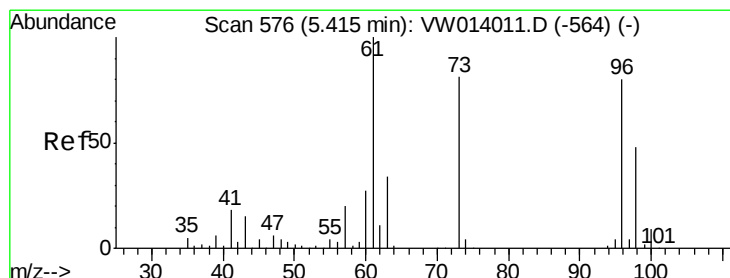
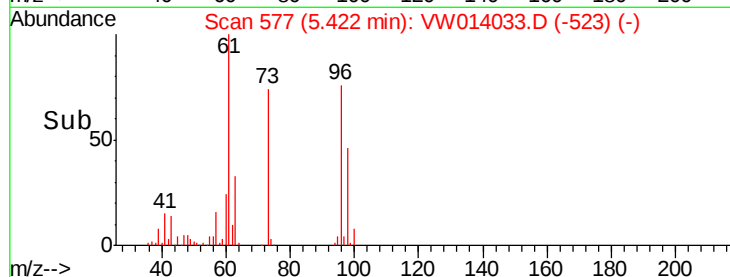
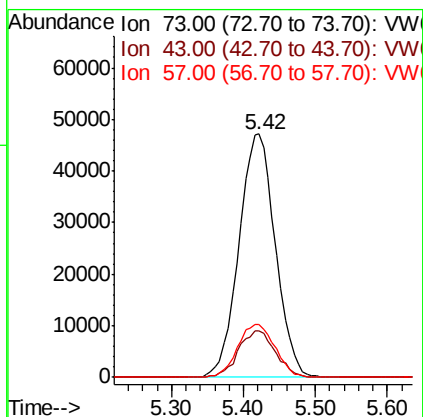
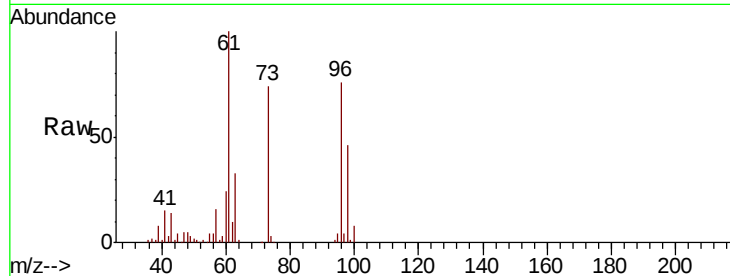




#17
Methvl tert-butvl Ether
Concen: 22.502 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014033.D
Acq: 15 Nov 2019 11:06

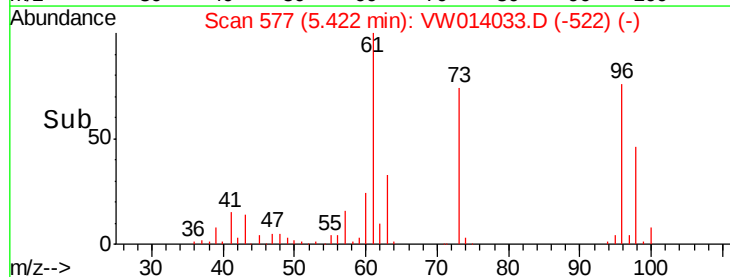
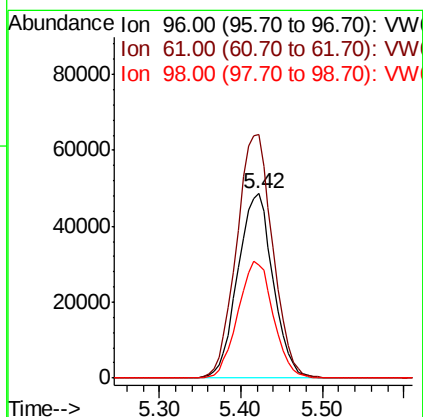
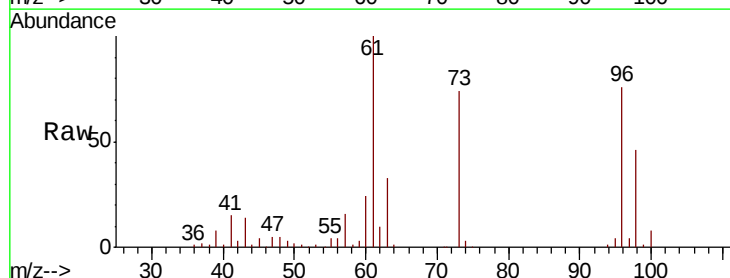
Instrument :
MSVOA_W
ClientSampleId :

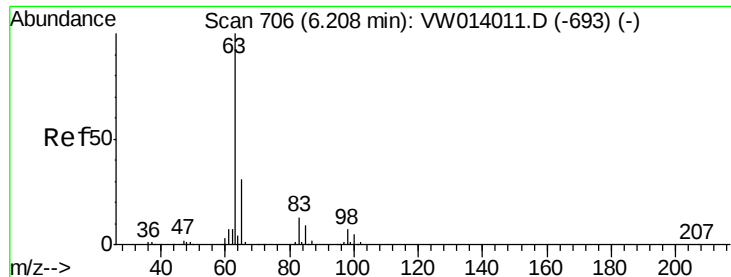
Tot Ion: 73 Resp: 165016
Ion Ratio Lower Upper
73 100
43 19.5 15.5 23.3
57 22.4 18.2 27.4



#18
trans-1,2-Dichloroethene
Concen: 24.655 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.01 min
Lab File: VW014033.D
Acq: 15 Nov 2019 11:06

Tgt Ion: 96 Resp: 146148
Ion Ratio Lower Upper
96 100
61 132.0 90.6 168.2
98 61.2 42.9 79.7





#19

1,1-Dichloroethane

Concen: 25.427 ug/L

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

ClientSampled :

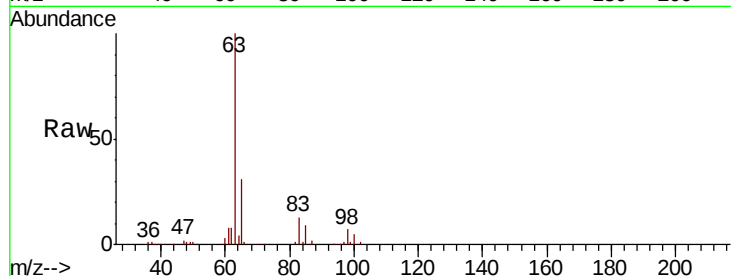
Tot Ion: 63 Resp: 253879

Ion Ratio Lower Upper

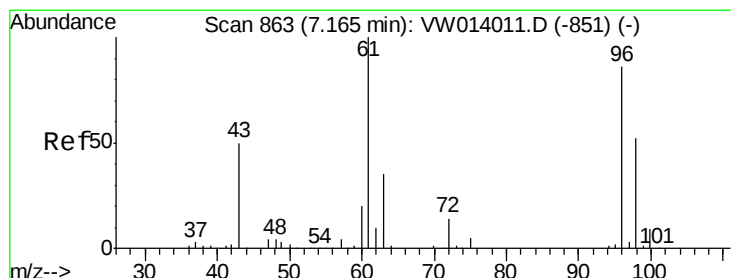
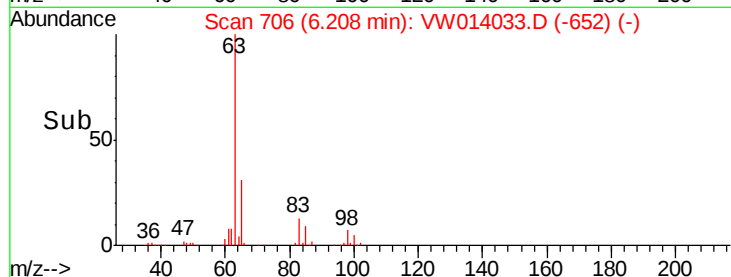
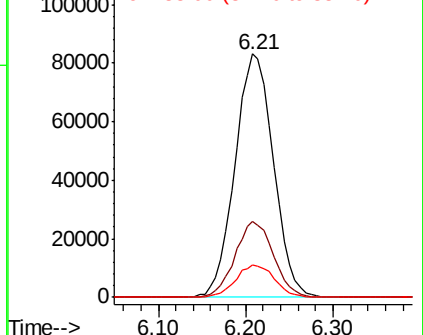
63 100

65 31.1 22.1 41.1

83 13.2 9.0 16.6



Abundance Ion 63.00 (62.70 to 63.70): VW
Ion 65.00 (64.70 to 65.70): VW
Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 38.796 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014033.D

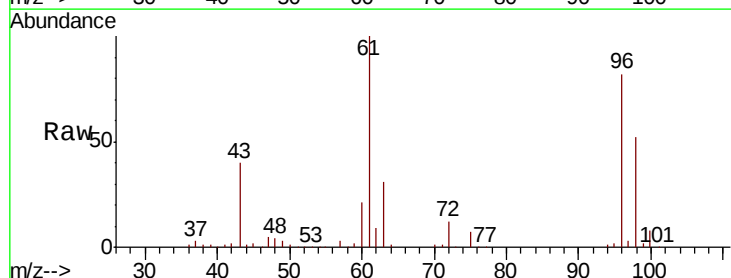
Acq: 15 Nov 2019 11:06

Tgt Ion: 43 Resp: 79159

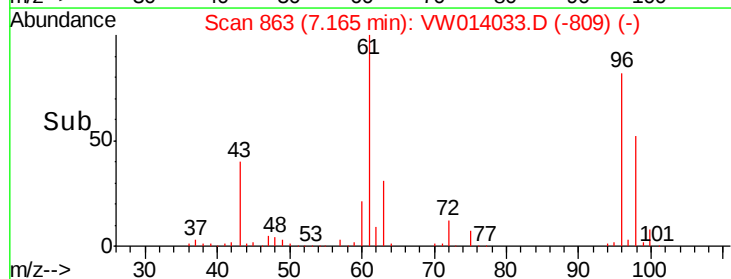
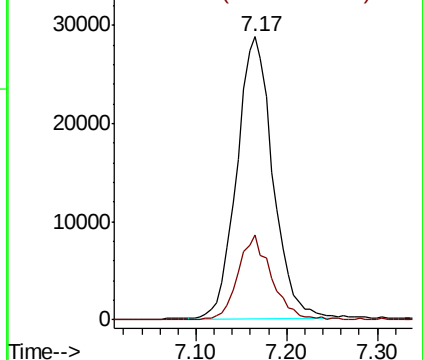
Ion Ratio Lower Upper

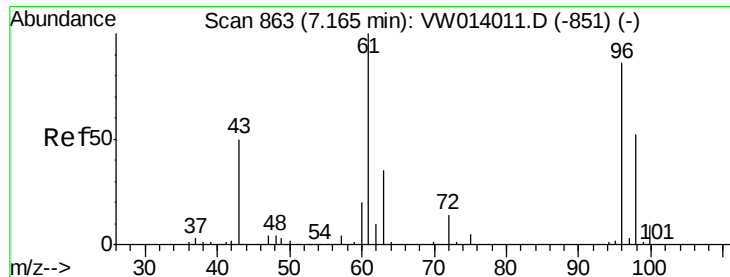
43 100

72 27.9 14.1 42.2



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW



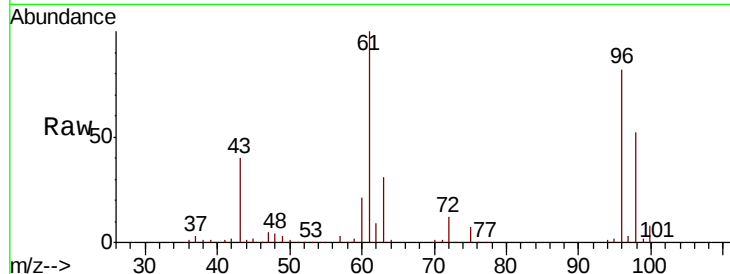


#22

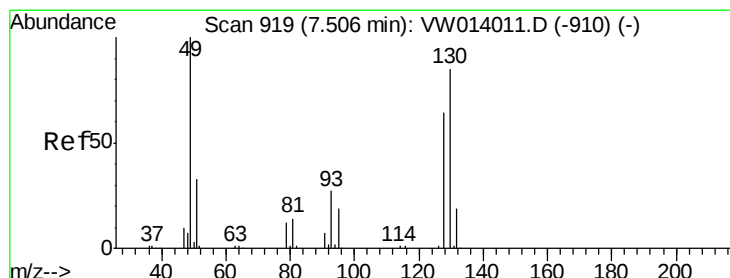
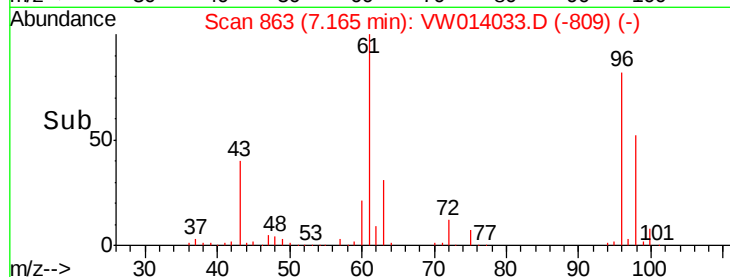
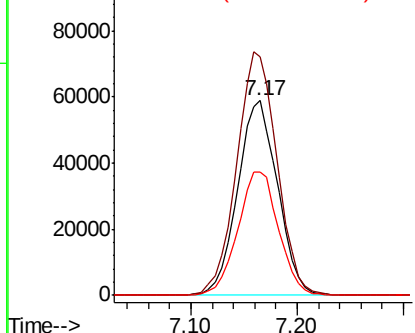
cis-1,2-Dichloroethene
Concen: 24.932 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW014033.D
Acq: 15 Nov 2019 11:06

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 96 Resp: 155519
Ion Ratio Lower Upper
96 100
61 122.3 86.9 161.5
98 63.1 45.5 84.5



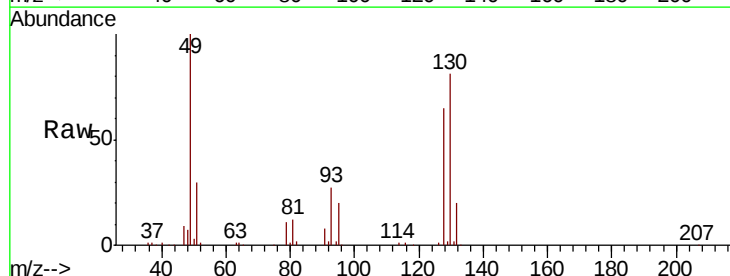
Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW



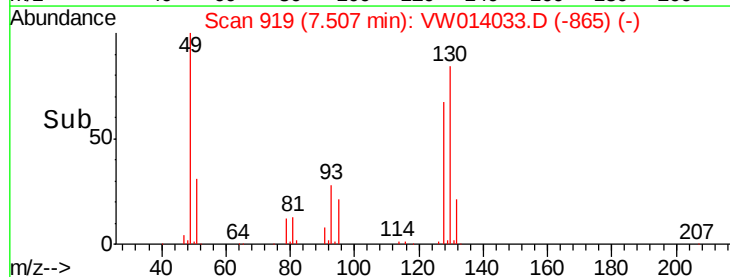
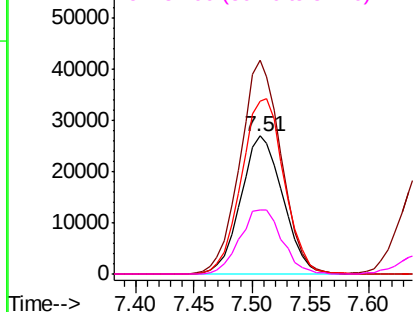
#23

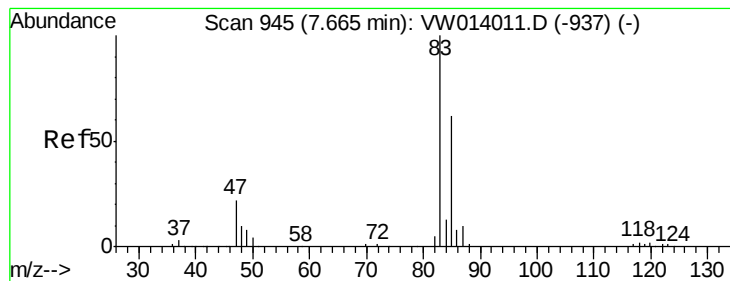
Bromochloromethane
Concen: 24.846 ug/L
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW014033.D
Acq: 15 Nov 2019 11:06

Tgt Ion: 128 Resp: 68031
Ion Ratio Lower Upper
128 100
49 154.7 95.1 176.5
130 125.2 85.0 158.0
51 46.7 36.7 55.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VW
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VW





#25

Chloroform

Concen: 25.851 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.01 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

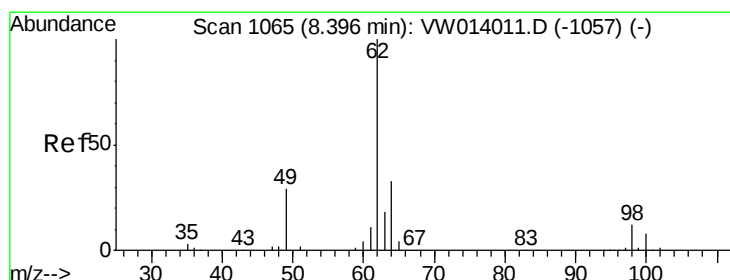
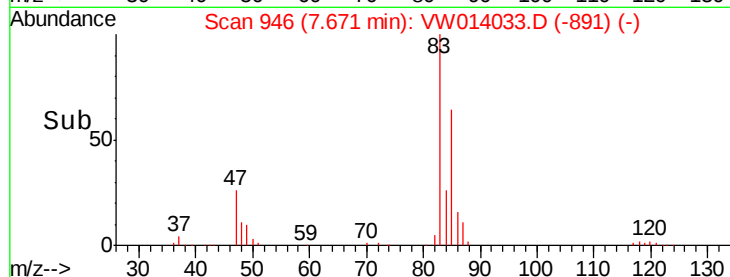
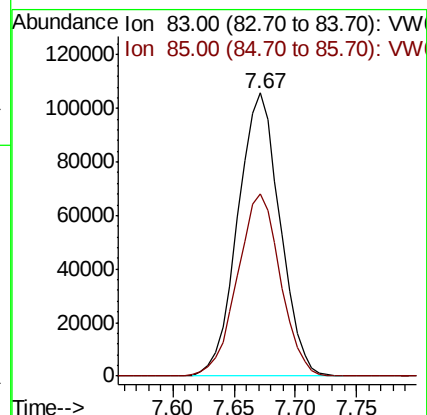
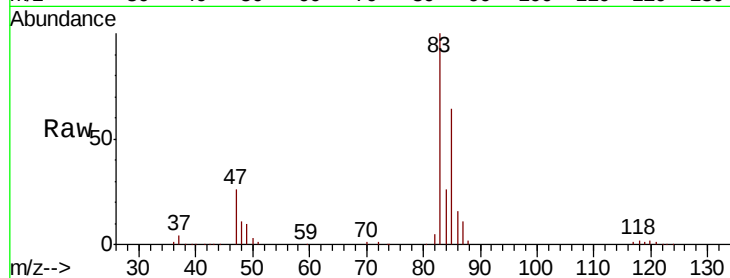
ClientSampleId :

Tot Ion: 83 Resp: 253478

Ion Ratio Lower Upper

83 100

85 65.8 46.1 85.7



#27

1,2-Dichloroethane

Concen: 25.552 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW014033.D

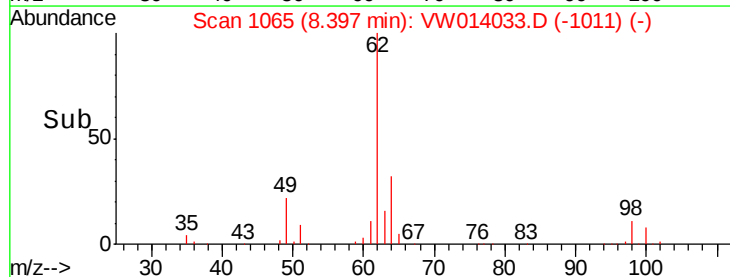
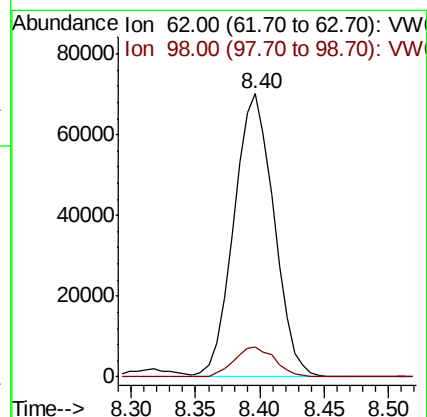
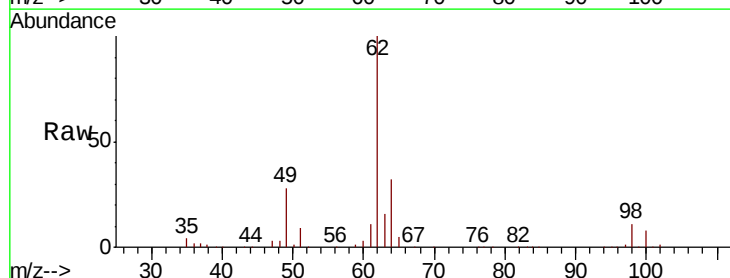
Acq: 15 Nov 2019 11:06

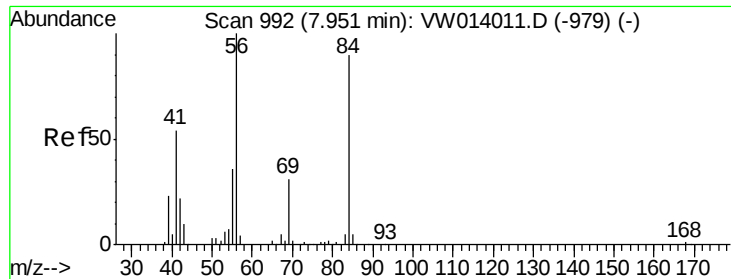
Tgt Ion: 62 Resp: 151688

Ion Ratio Lower Upper

62 100

98 10.5 9.3 13.9

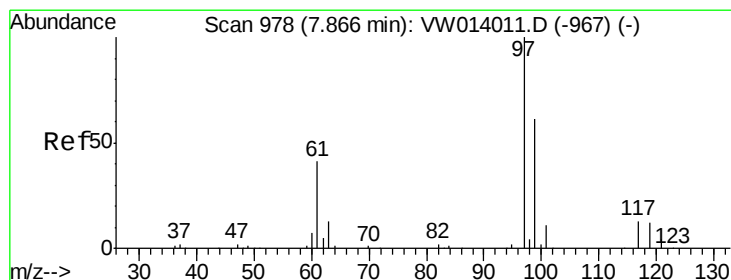
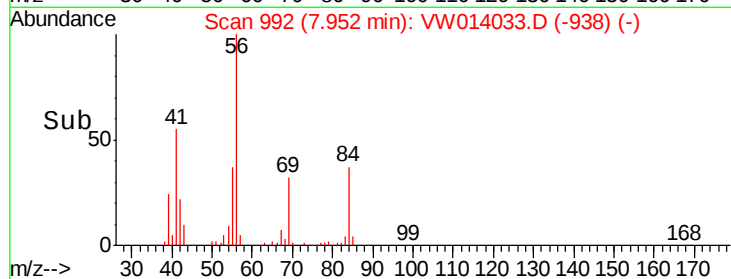
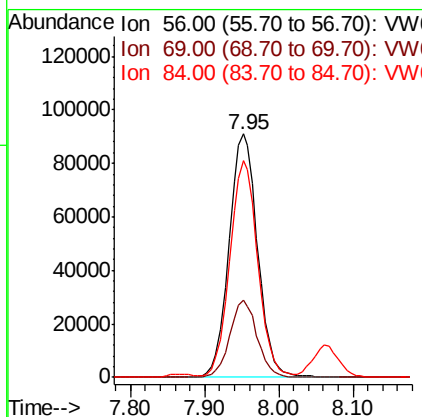
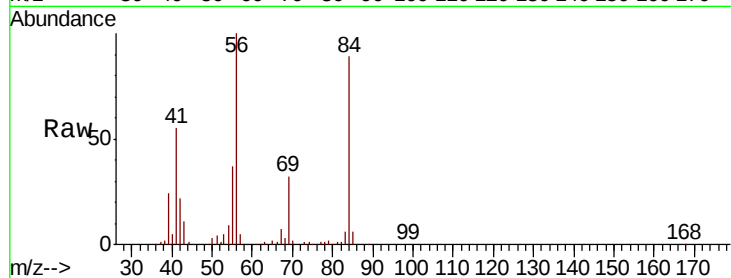




#30
Cvclohexane
Concen: 23.877 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW014033.D
Acq: 15 Nov 2019 11:06

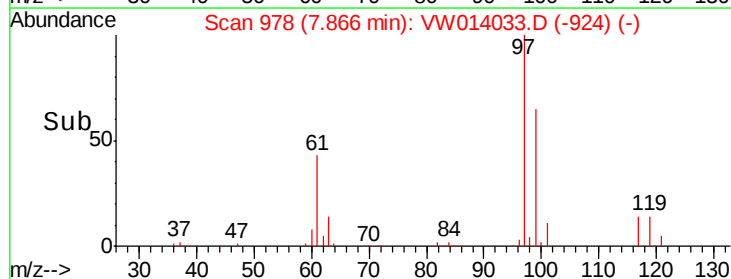
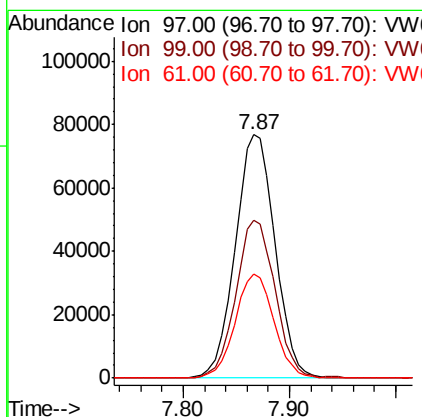
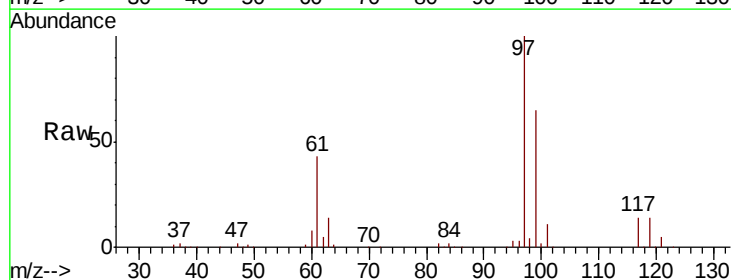
Instrument :
MSVOA_W
ClientSampleId :

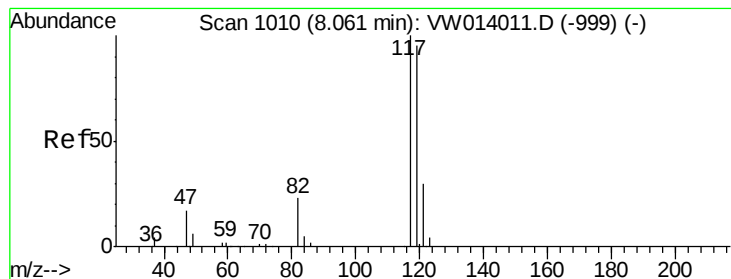
Tot Ion: 56 Resp: 242990
Ion Ratio Lower Upper
56 100
69 30.5 24.6 37.0
84 87.7 70.2 105.2



#31
1,1,1-Trichloroethane
Concen: 25.152 ug/L
RT: 7.87 min Scan# 978
Delta R.T. 0.00 min
Lab File: VW014033.D
Acq: 15 Nov 2019 11:06

Tgt Ion: 97 Resp: 200448
Ion Ratio Lower Upper
97 100
99 64.0 51.1 76.7
61 41.8 32.8 49.2





#32

Carbon tetrachloride

Concen: 25.430 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

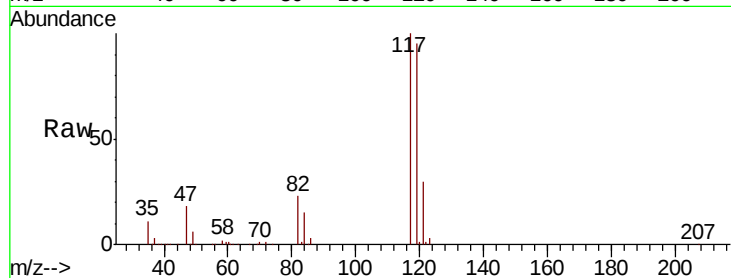
ClientSampleId :

Tot Ion:117 Resp: 194547

Ion Ratio Lower Upper

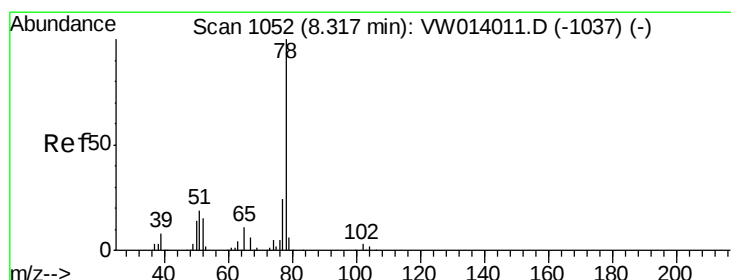
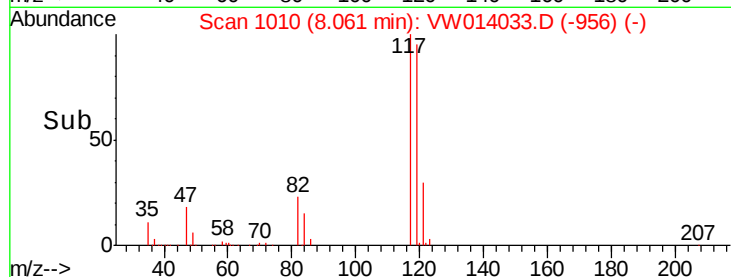
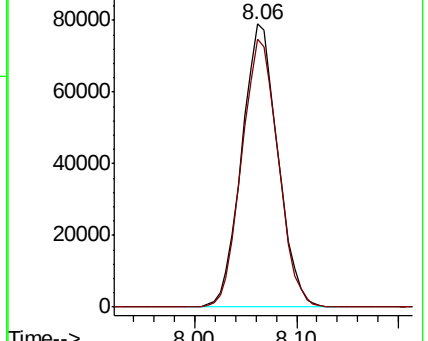
117 100

119 95.4 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: 25.158 ug/L

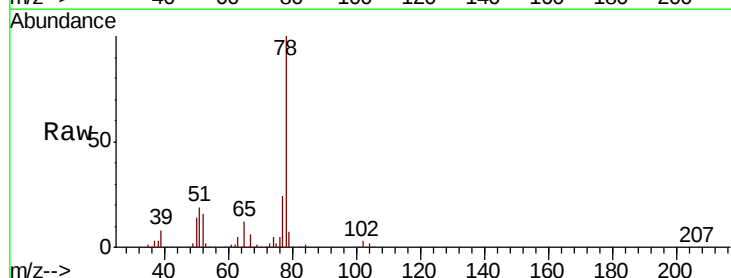
RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

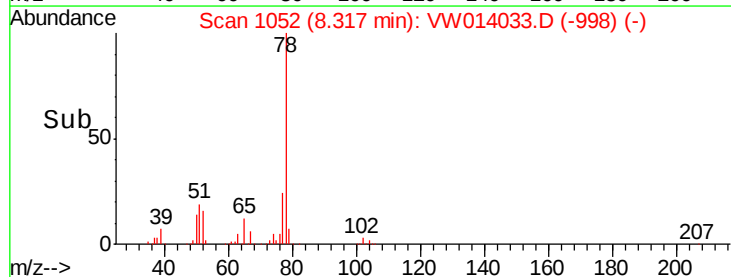
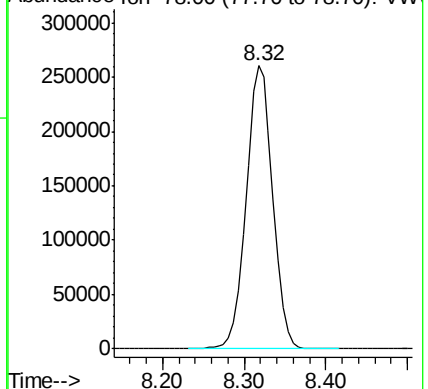
Lab File: VW014033.D

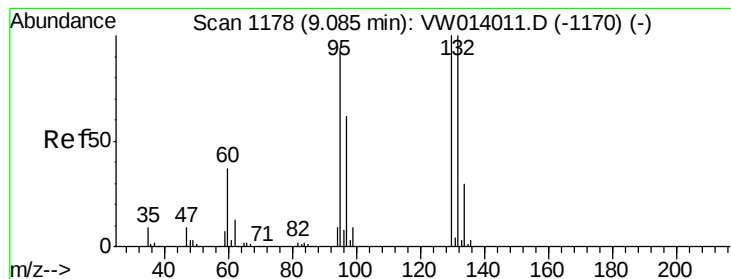
Acq: 15 Nov 2019 11:06

Tgt Ion: 78 Resp: 586826



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 24.512 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 95 Resp: 152520

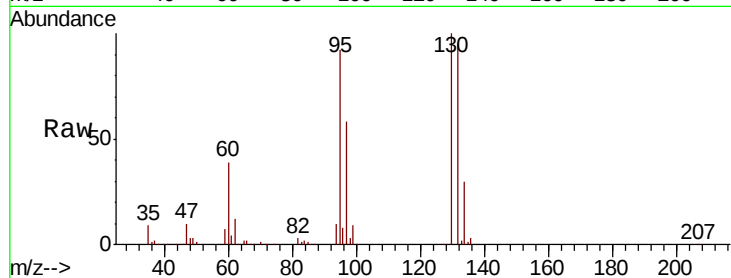
Ion Ratio Lower Upper

95 100

97 63.9 45.1 83.9

132 105.0 73.7 136.9

130 108.0 76.6 142.2

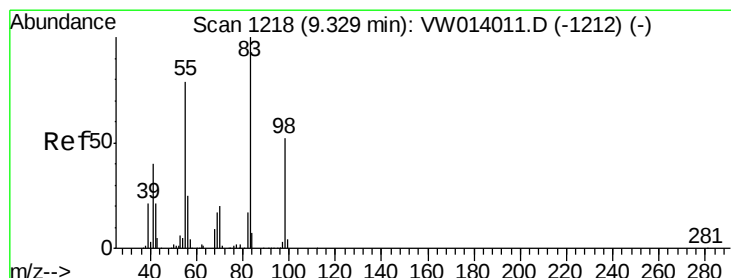
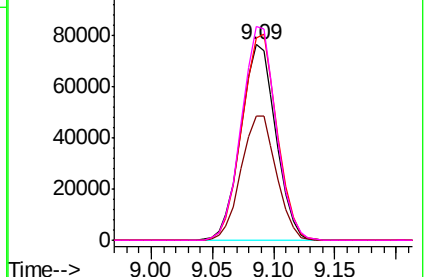
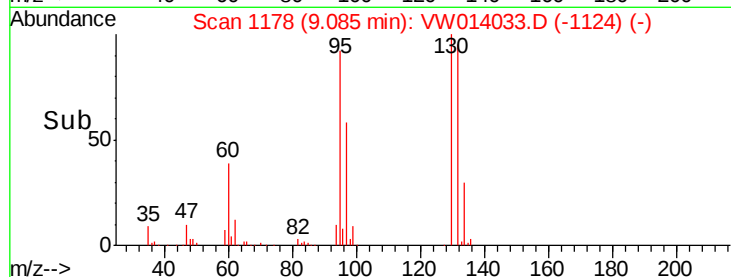


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 24.043 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

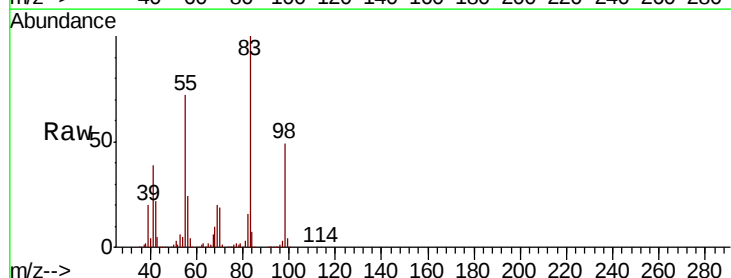
Tgt Ion: 83 Resp: 268231

Ion Ratio Lower Upper

83 100

55 75.0 59.8 89.8

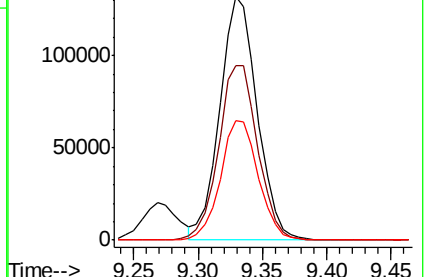
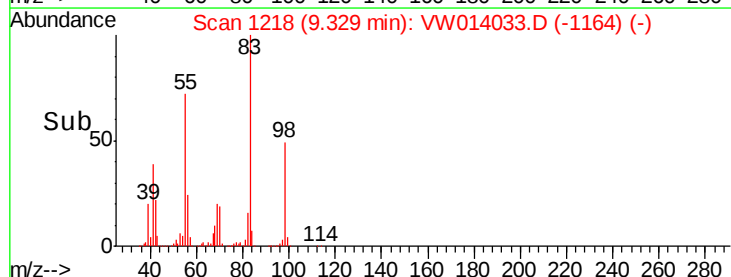
98 49.7 39.5 59.3

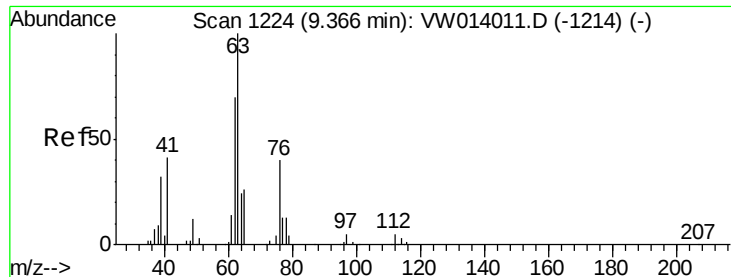


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 25.300 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

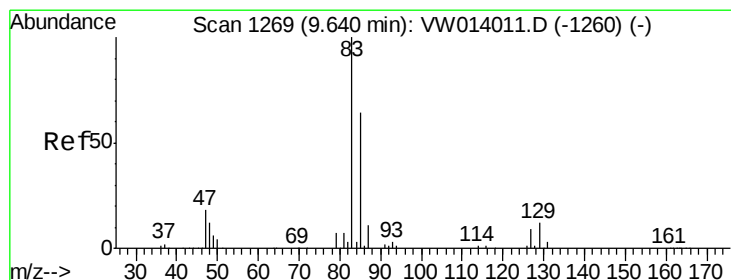
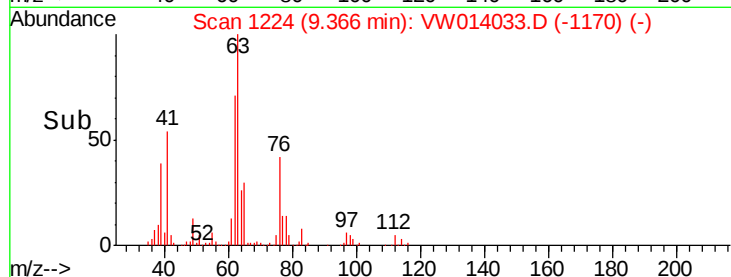
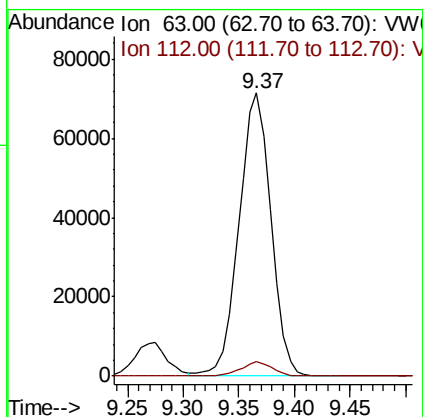
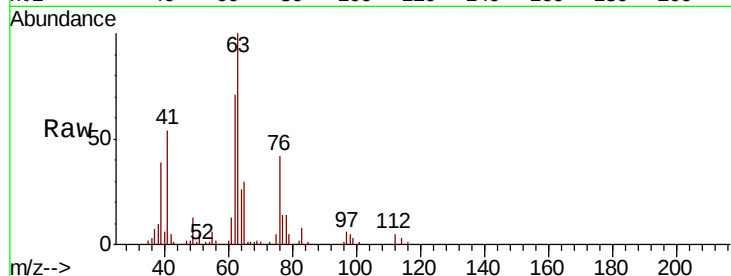
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 63 Resp: 142062

Ion Ratio Lower Upper

63 100

112 5.0 3.9 5.9



#41

Bromodichloromethane

Concen: 26.072 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

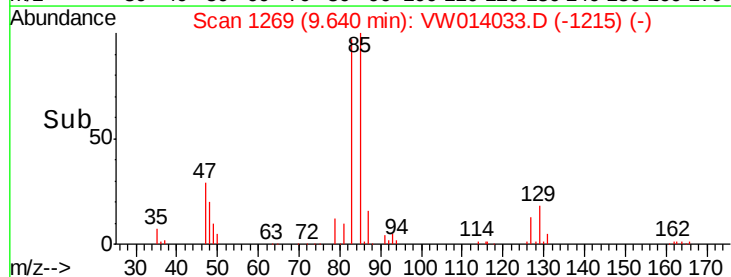
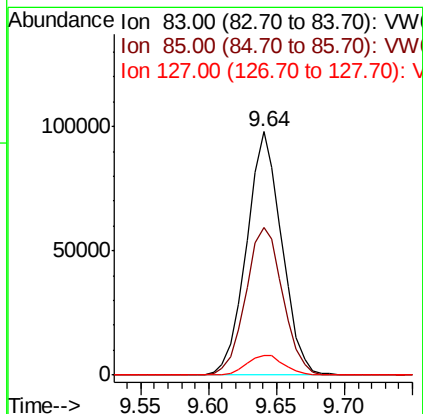
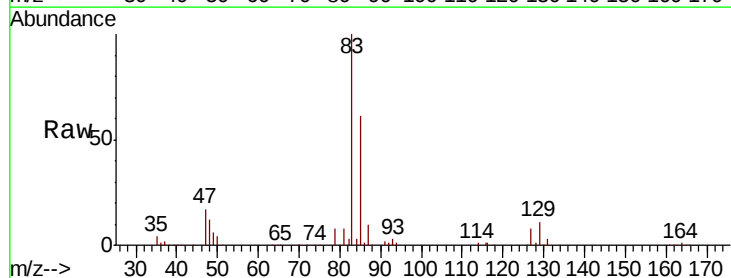
Tgt Ion: 83 Resp: 176985

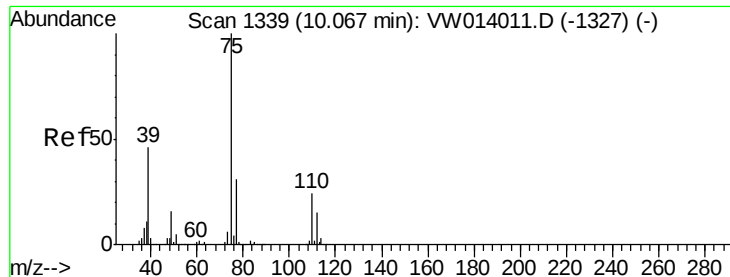
Ion Ratio Lower Upper

83 100

85 60.6 45.1 83.7

127 8.1 7.4 11.0





#42

cis-1,3-Dichloropropene

Concen: 25.071 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.01 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

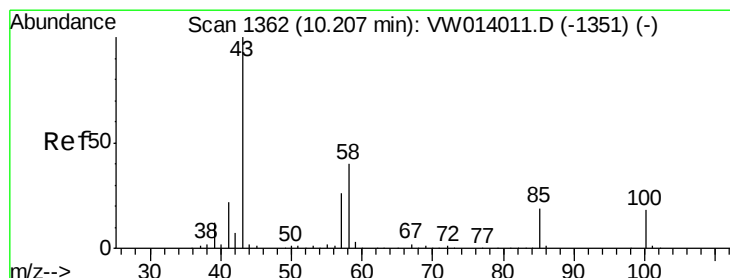
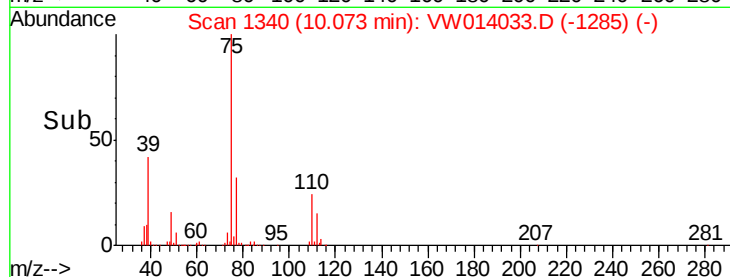
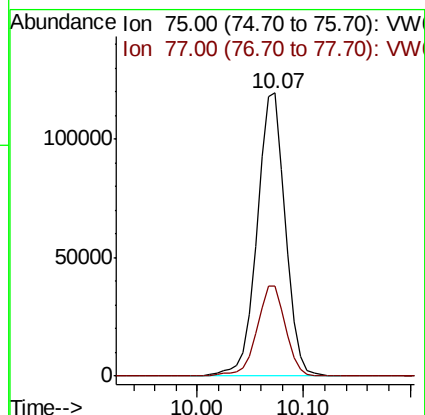
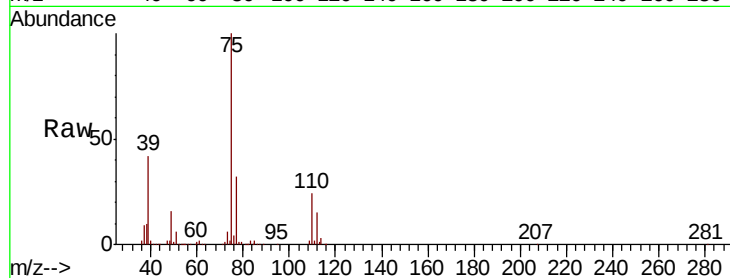
ClientSampleId :

Tot Ion: 75 Resp: 222163

Ion Ratio Lower Upper

75 100

77 31.8 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 42.213 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

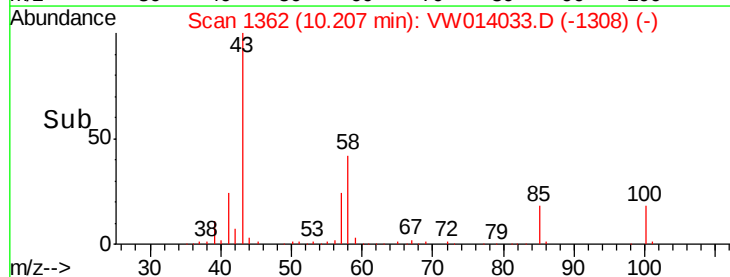
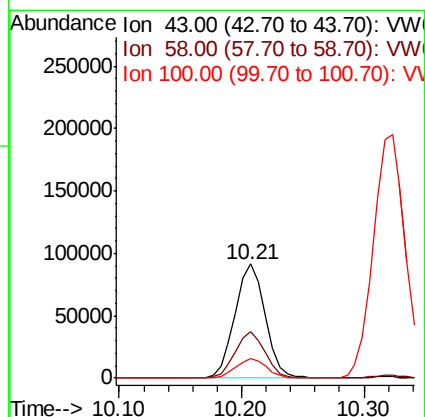
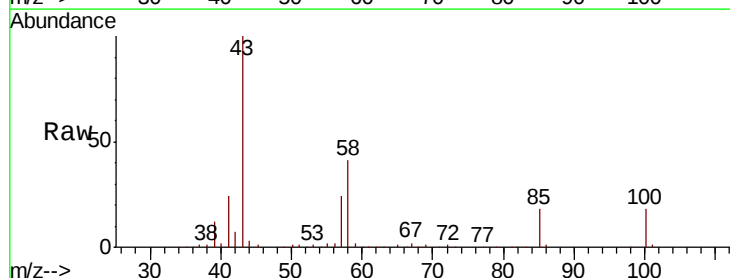
Tgt Ion: 43 Resp: 156500

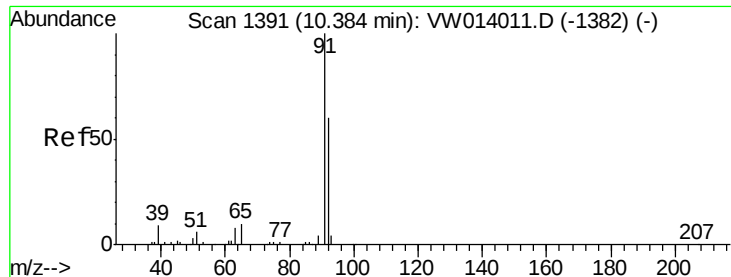
Ion Ratio Lower Upper

43 100

58 40.8 32.6 49.0

100 17.1 13.8 20.8





#44

Toluene

Concen: 24.964 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

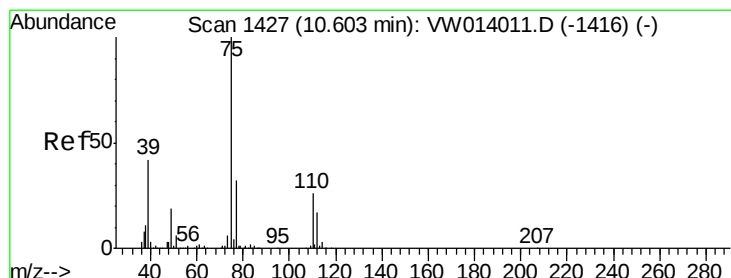
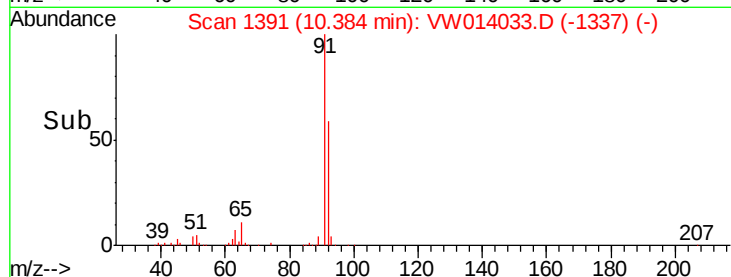
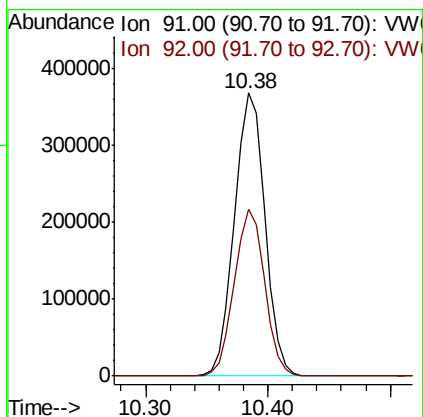
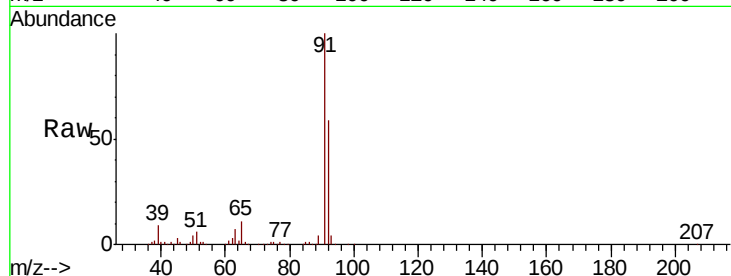
ClientSampled :

Tot Ion: 91 Resp: 634880

Ion Ratio Lower Upper

91 100

92 58.9 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 24.582 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014033.D

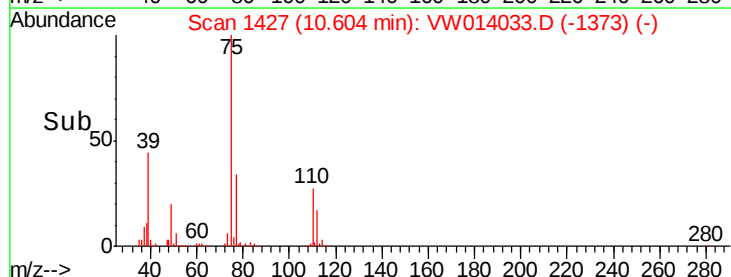
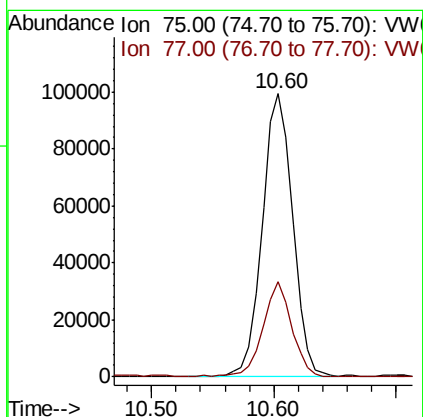
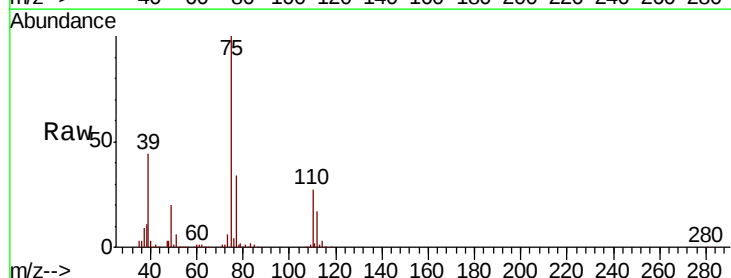
Acq: 15 Nov 2019 11:06

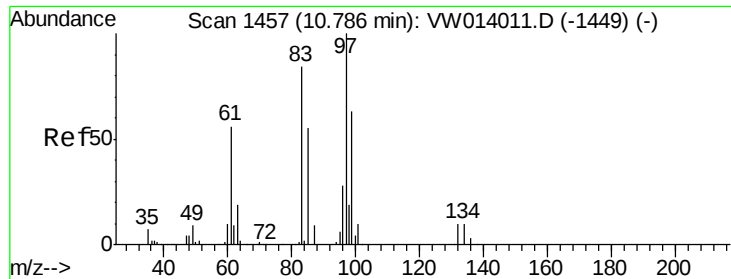
Tgt Ion: 75 Resp: 172258

Ion Ratio Lower Upper

75 100

77 33.7 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 23.861 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

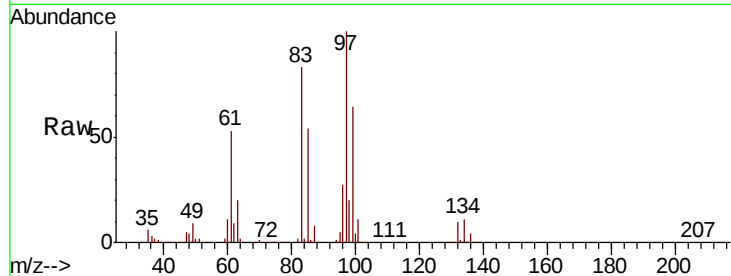
Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 97 Resp: 98447

Ion	Ratio	Lower	Upper
97	100		
83	83.4	58.9	109.5
85	53.7	38.1	70.9
99	64.5	46.5	86.3



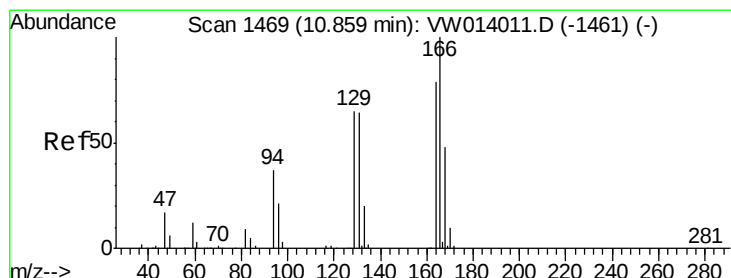
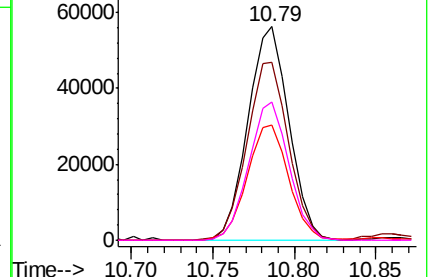
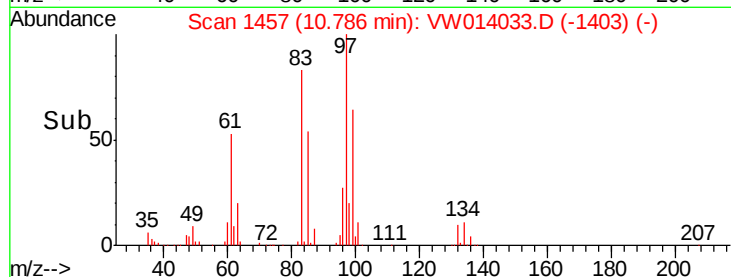
Abundance

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: 24.921 ug/L

RT: 10.86 min Scan# 1469

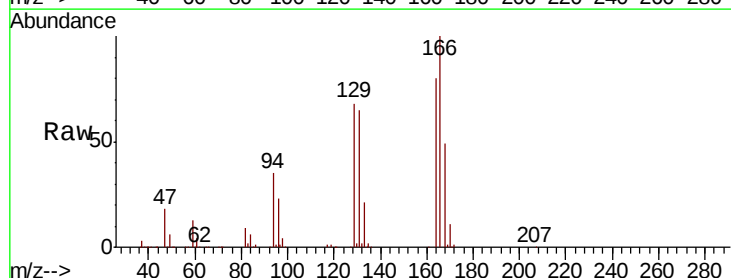
Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Tgt Ion: 164 Resp: 138211

Ion	Ratio	Lower	Upper
164	100		
129	84.4	60.6	112.6
131	81.1	59.1	109.7
166	124.9	90.8	168.6



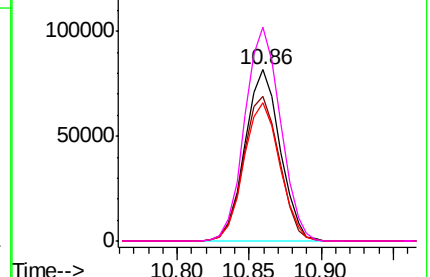
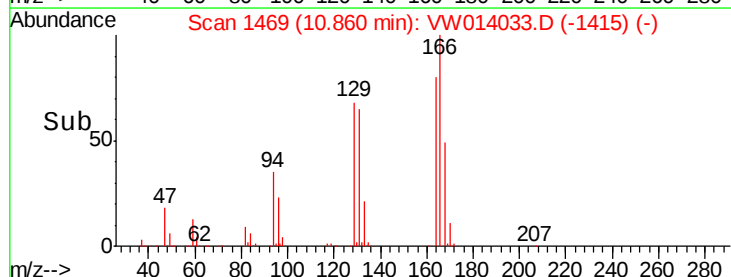
Abundance

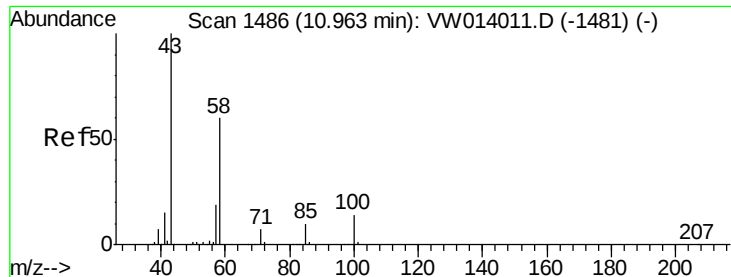
Ion 164.00 (163.70 to 164.70): V

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

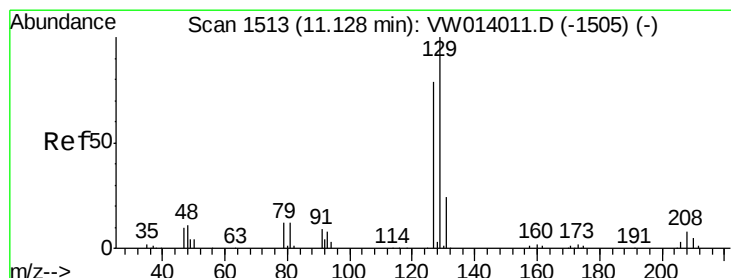
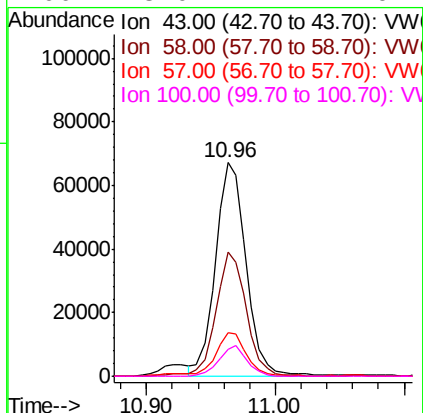
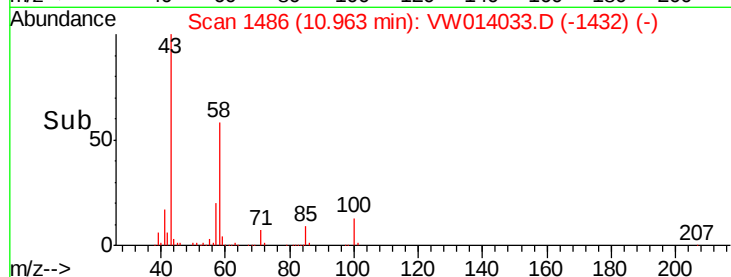
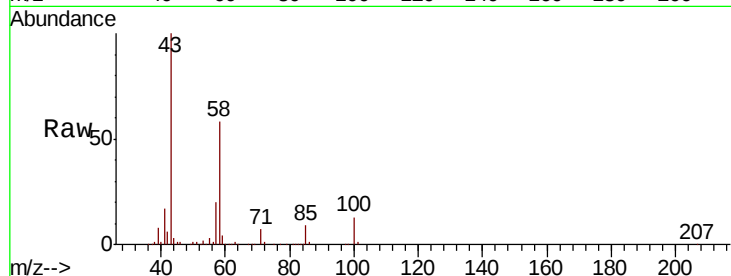




#49
2-Hexanone
Concen: 42.032 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VW014033.D
Acq: 15 Nov 2019 11:06

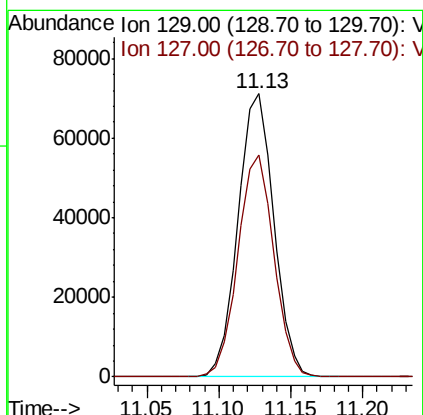
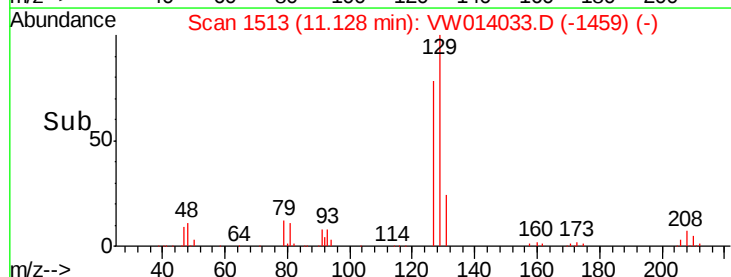
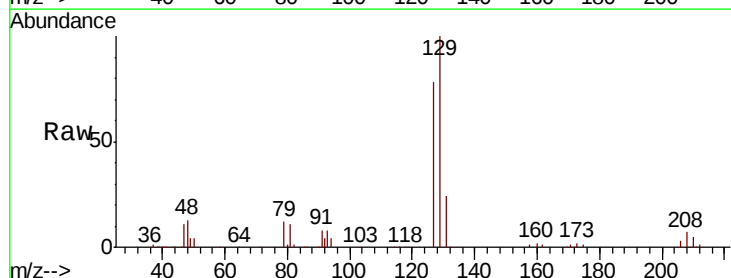
Instrument :
MSVOA_W
ClientSampled :

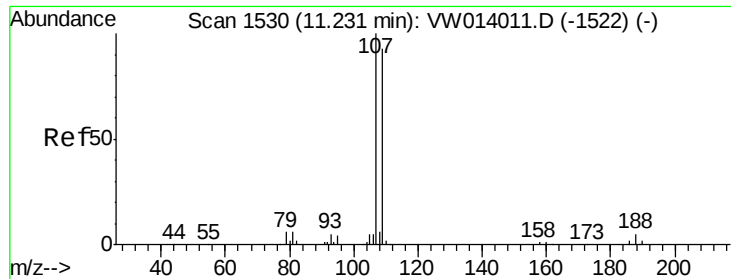
Tot Ion	Ratio	Lower	Upper
43	100		
58	58.0	44.4	66.6
57	20.0	16.5	24.7
100	13.0	11.1	16.7



#50
Dibromochloromethane
Concen: 25.411 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW014033.D
Acq: 15 Nov 2019 11:06

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.2	54.9	102.1





#51

1,2-Dibromoethane

Concen: 23.482 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW014033.D

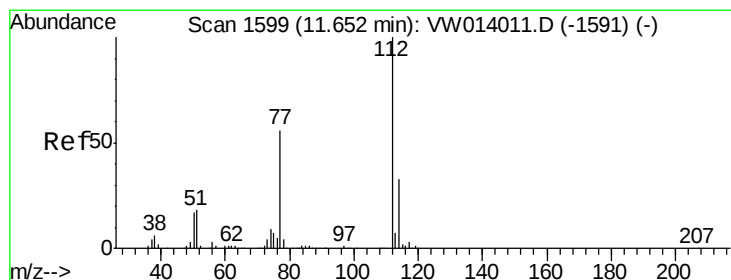
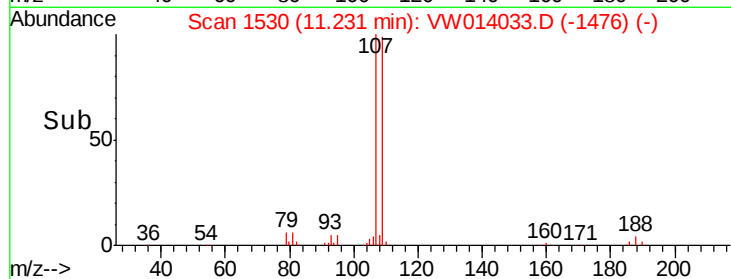
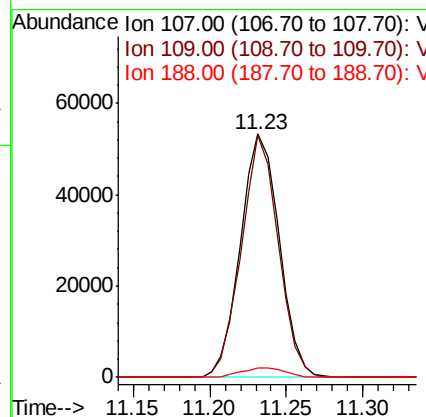
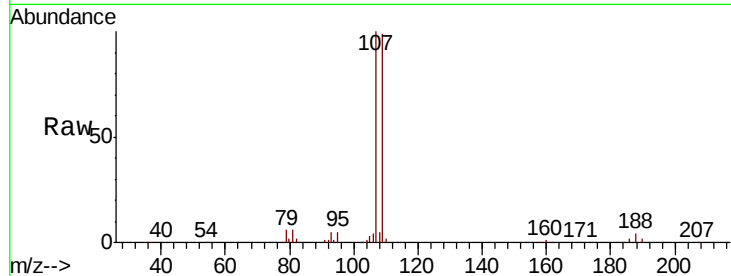
Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:	107	Resp:	94001
Ion	Ratio	Lower	Upper
107	100		
109	99.3	64.6	120.0
188	3.7	3.9	5.9#



#52

Chlorobenzene

Concen: 24.778 ug/L

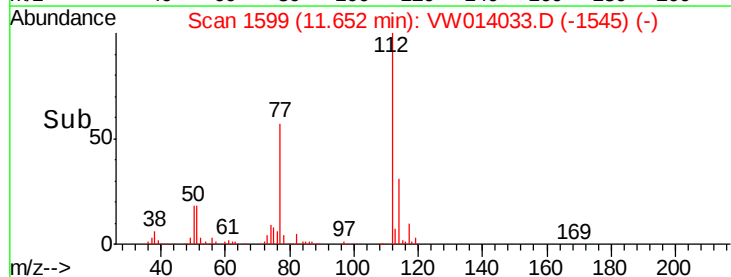
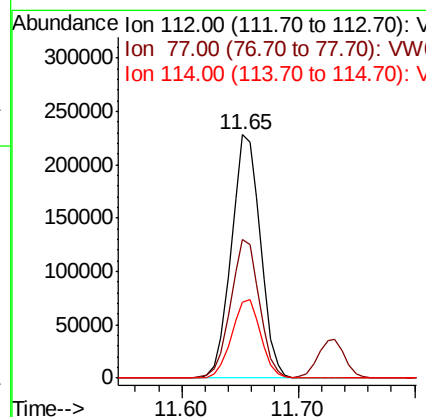
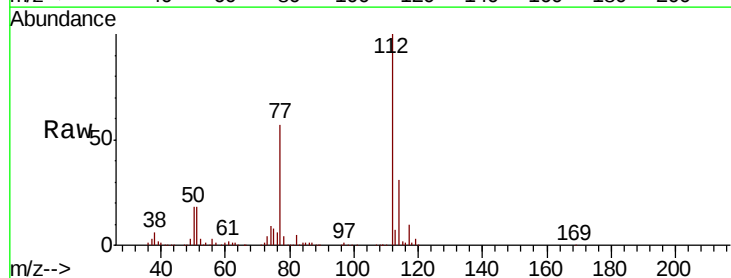
RT: 11.65 min Scan# 1599

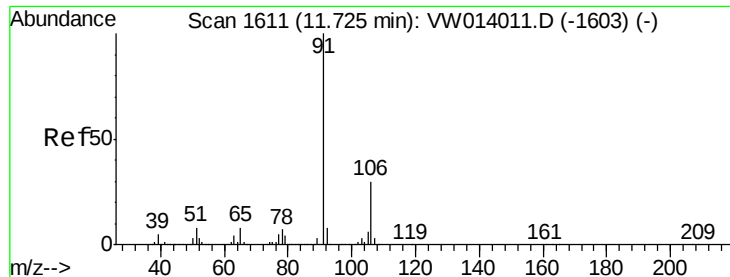
Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Tgt Ion:	112	Resp:	395046
Ion	Ratio	Lower	Upper
112	100		
77	57.0	42.2	63.4
114	31.4	22.5	41.9





#53

Ethylbenzene

Concen: 25.024 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.01 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

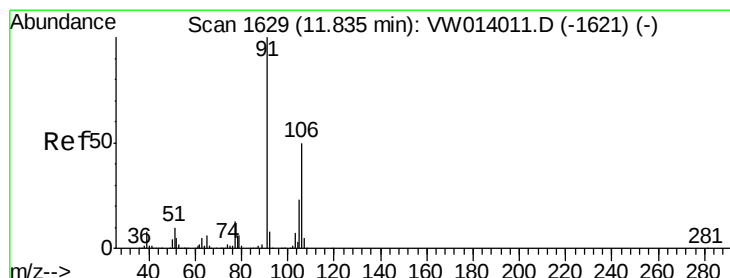
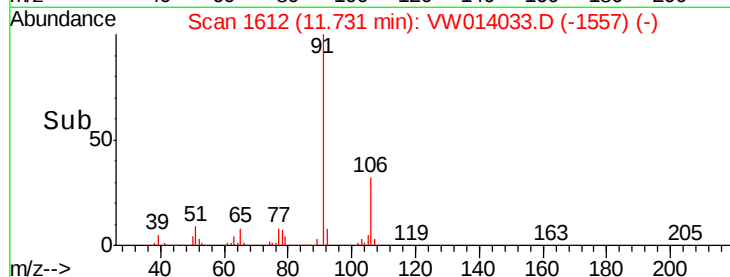
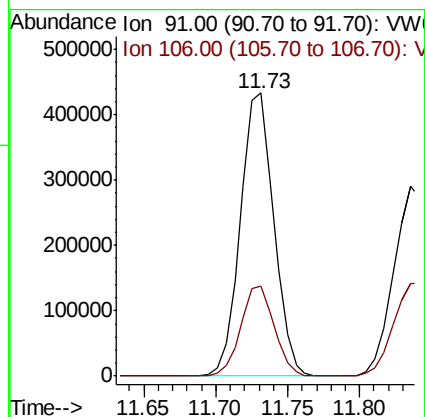
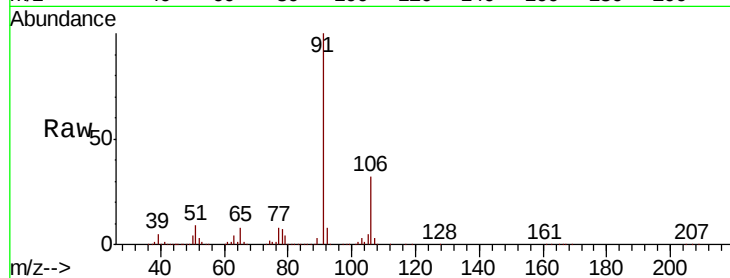
ClientSampled :

Tot Ion: 91 Resp: 698353

Ion Ratio Lower Upper

91 100

106 31.7 22.3 41.5



#54

m,p-Xylene

Concen: 25.249 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VW014033.D

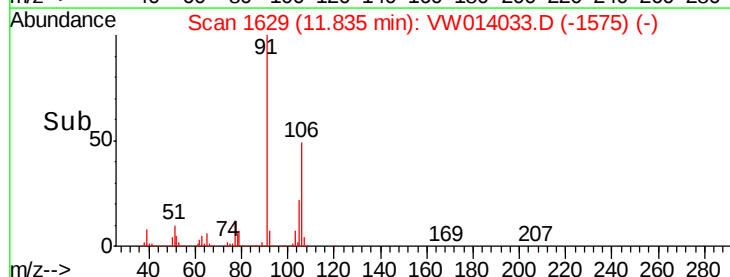
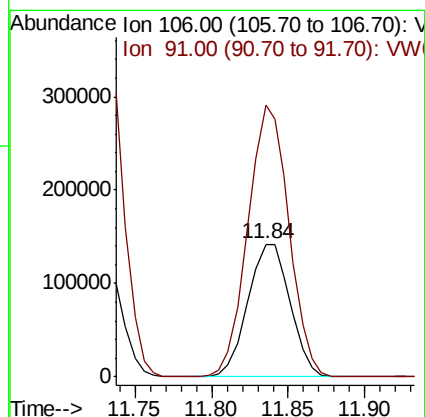
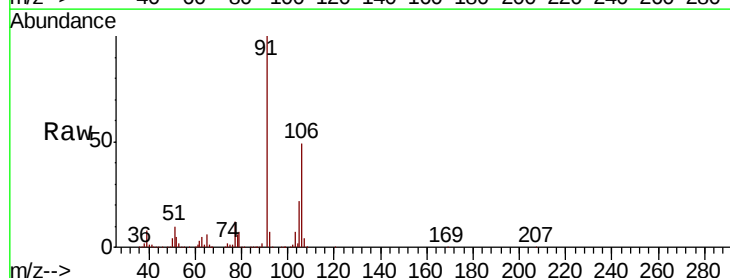
Acq: 15 Nov 2019 11:06

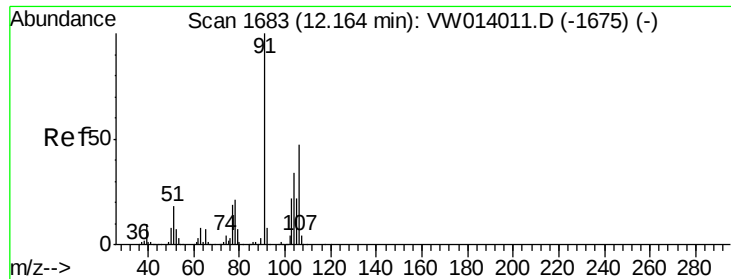
Tgt Ion: 106 Resp: 273835

Ion Ratio Lower Upper

106 100

91 204.3 138.7 257.5





#55

o-xylene

Concen: 25.472 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

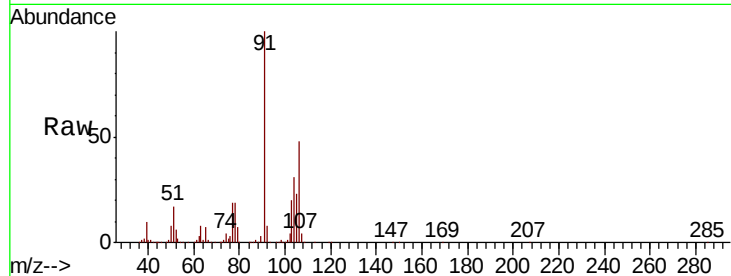
ClientSampleId :

Tot Ion:106 Resp: 258698

Ion Ratio Lower Upper

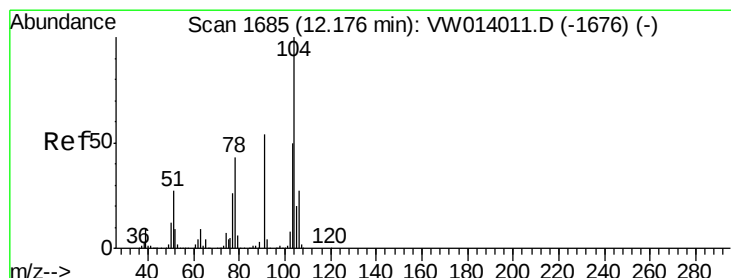
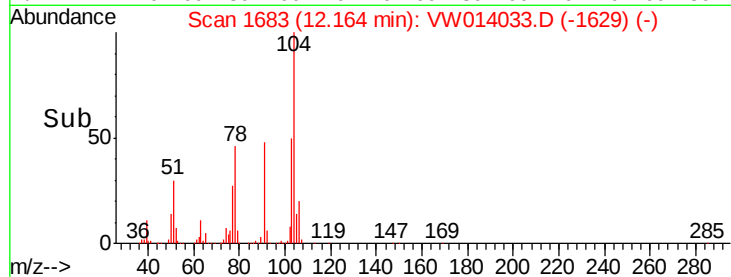
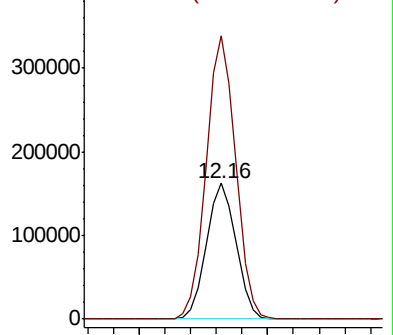
106 100

91 208.4 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 25.726 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VW014033.D

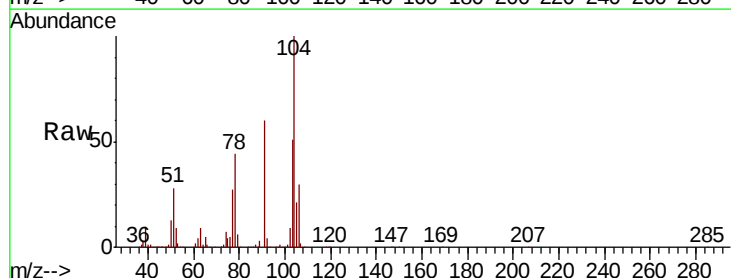
Acq: 15 Nov 2019 11:06

Tgt Ion:104 Resp: 441371

Ion Ratio Lower Upper

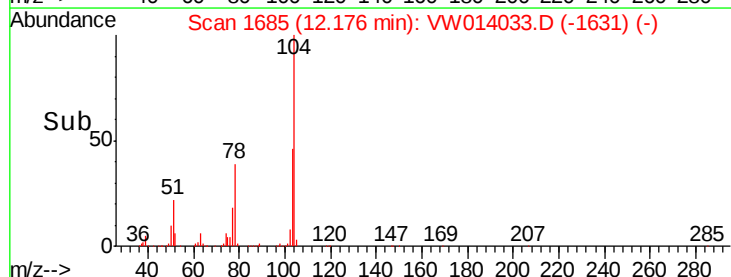
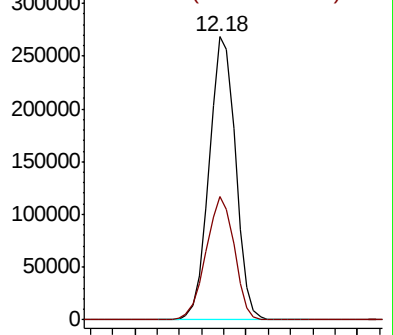
104 100

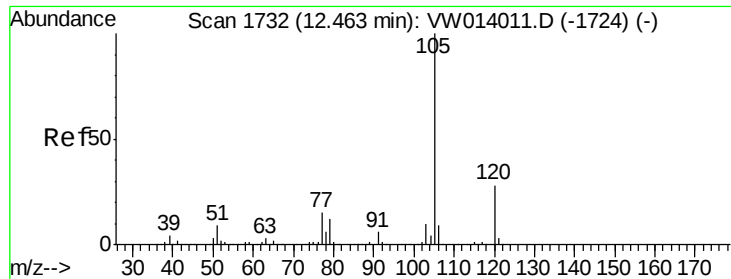
78 43.6 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 25.199 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

ClientSampleId :

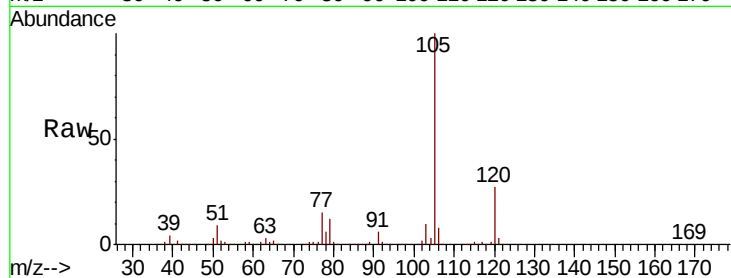
Tot Ion:105 Resp: 703649

Ion Ratio Lower Upper

105 100

120 26.5 21.6 32.4

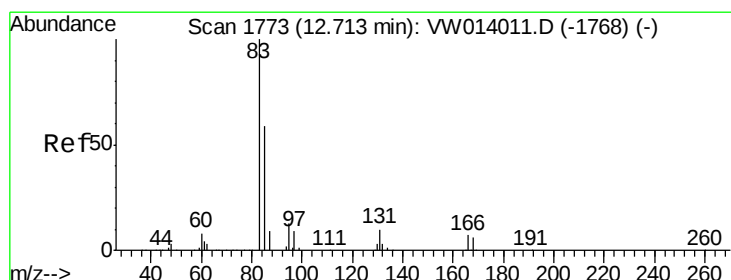
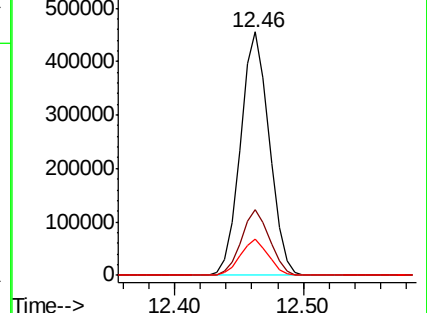
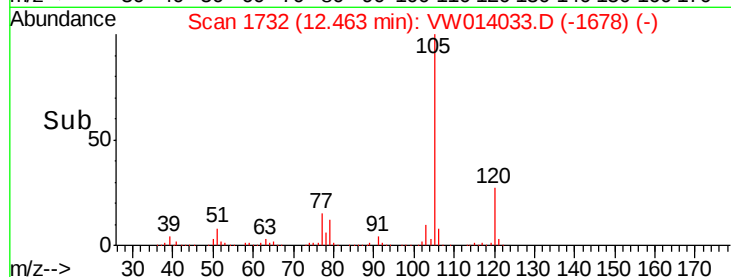
77 14.4 11.6 17.4



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: 23.313 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

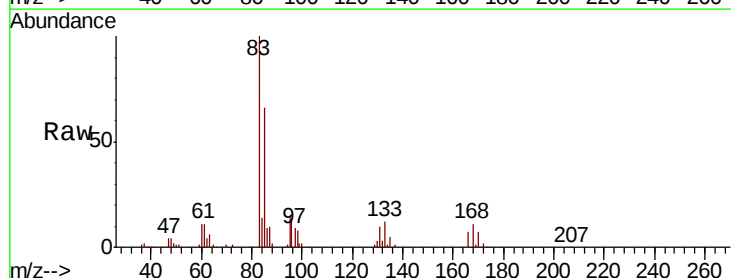
Tgt Ion: 83 Resp: 112294

Ion Ratio Lower Upper

83 100

85 66.2 43.7 81.1

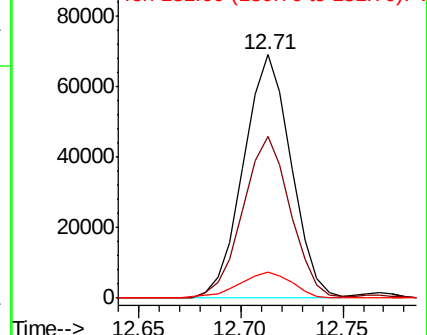
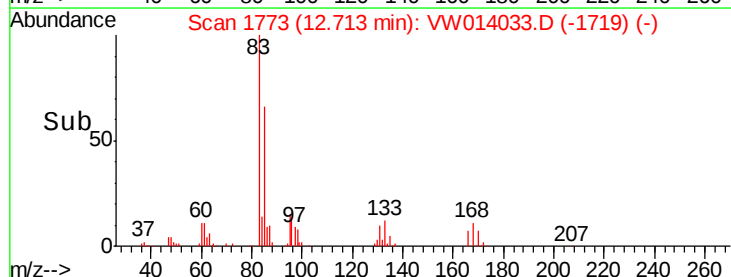
131 10.5 8.2 12.2

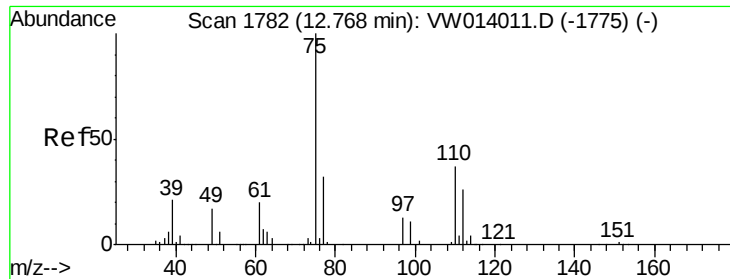


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 22.343 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

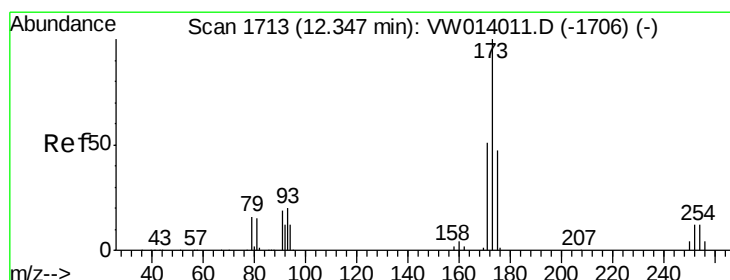
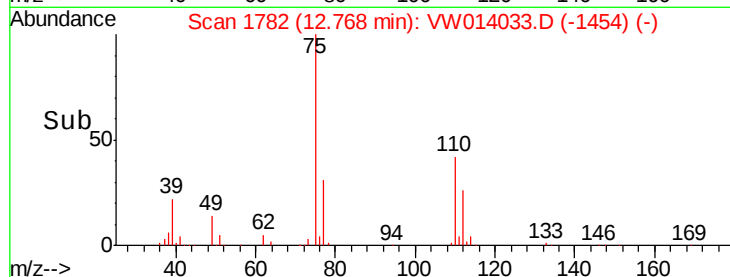
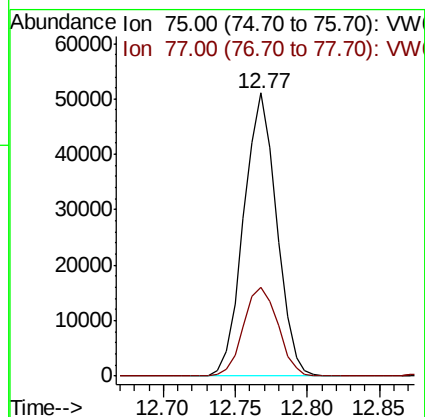
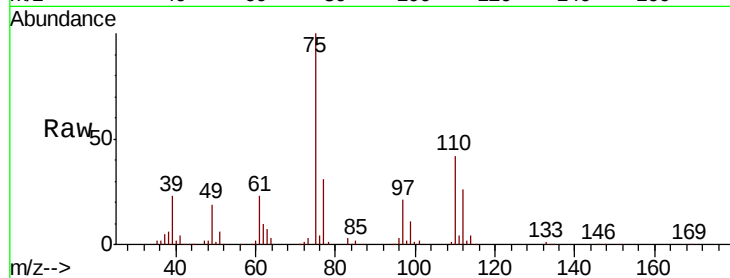
ClientSampleId :

Tot Ion: 75 Resp: 80942

Ion Ratio Lower Upper

75 100

77 33.0 25.9 38.9



#62

Bromoform

Concen: 22.772 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

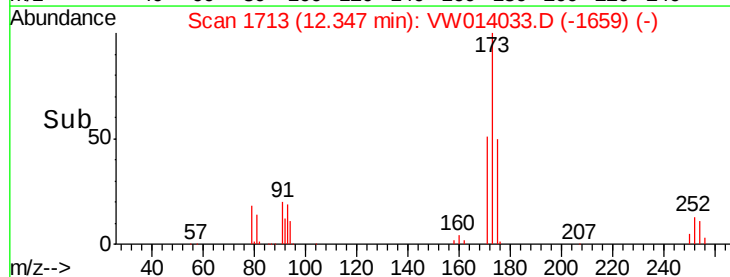
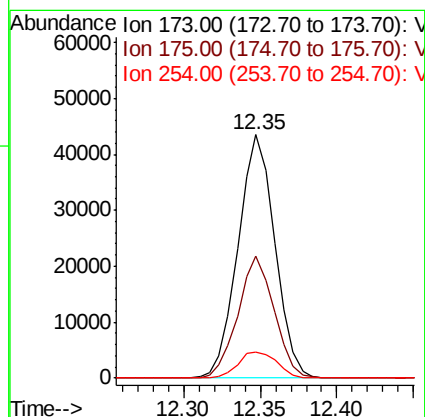
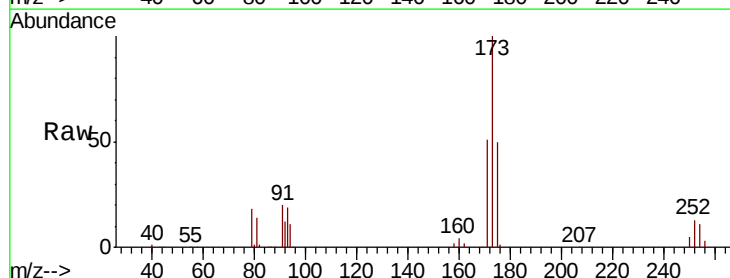
Tgt Ion: 173 Resp: 72717

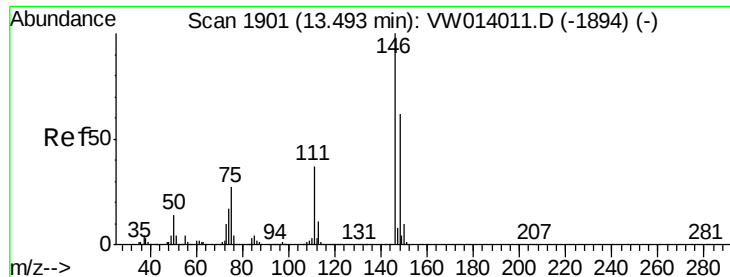
Ion Ratio Lower Upper

173 100

175 49.2 38.8 58.2

254 11.6 9.4 14.0

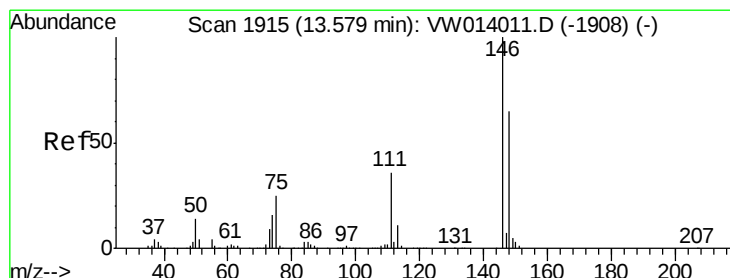
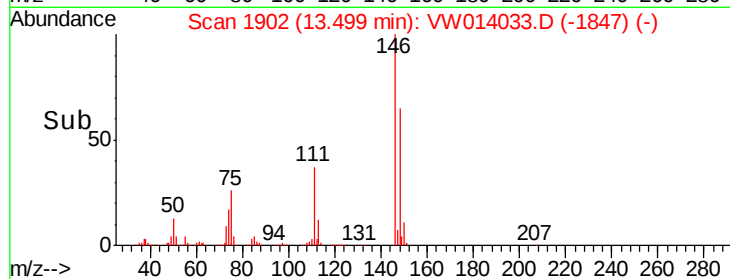
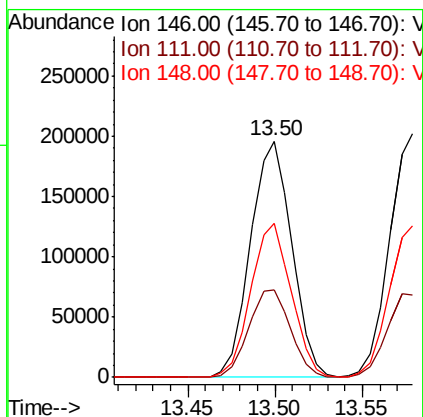
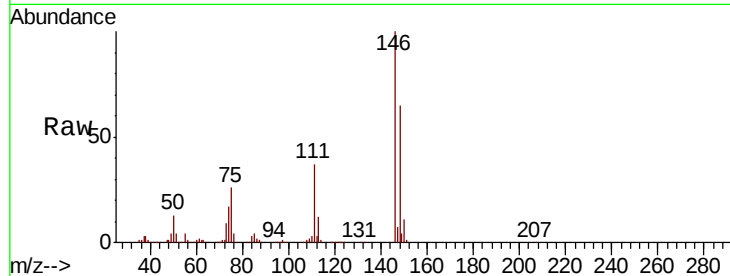




#63
 1,3-Dichlorobenzene
 Concen: 23.524 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.01 min
 Lab File: VW014033.D
 Acq: 15 Nov 2019 11:06

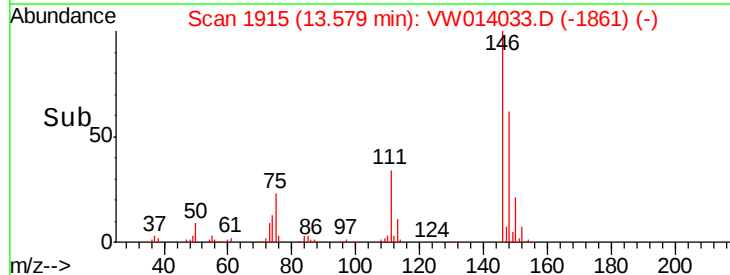
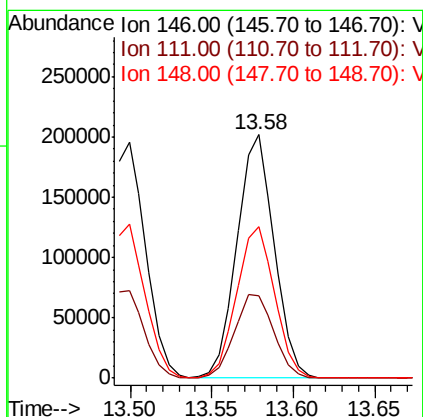
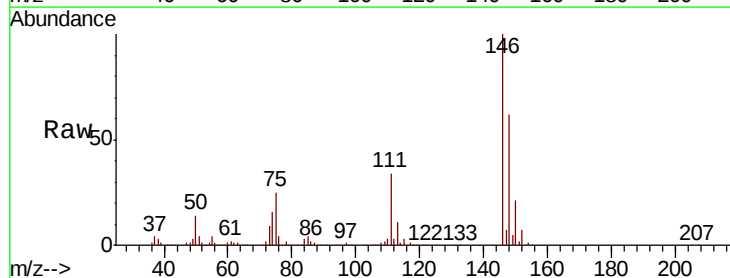
Instrument :
 MSVOA_W
 ClientSampled :

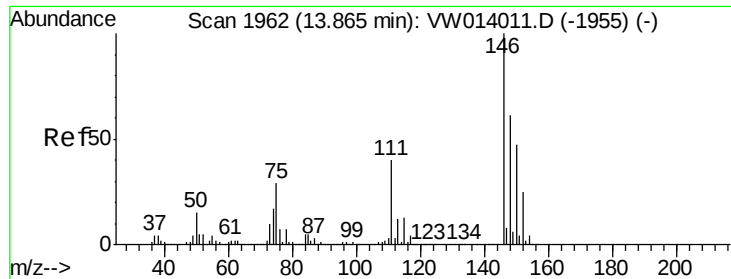
Tot Ion	Ratio	Lower	Upper
146	100		
111	37.3	26.0	48.2
148	65.1	44.7	82.9



#64
 1,4-Dichlorobenzene
 Concen: 23.791 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW014033.D
 Acq: 15 Nov 2019 11:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.0	24.9	46.3
148	62.2	43.9	81.5





#65

1,2-Dichlorobenzene

Concen: 23.500 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.01 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

ClientSampleId :

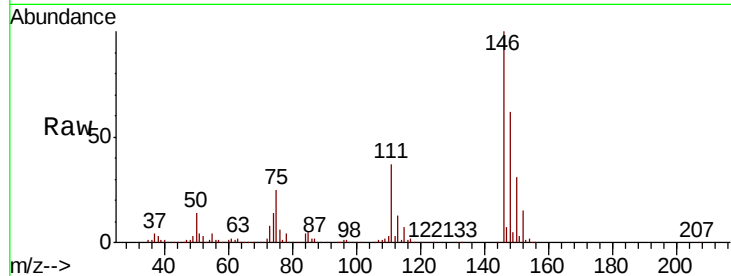
Tot Ion:146 Resp: 284719

Ion Ratio Lower Upper

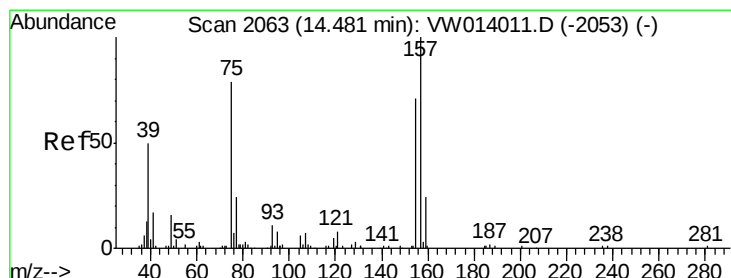
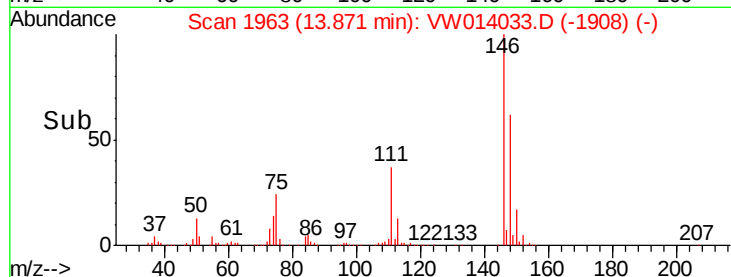
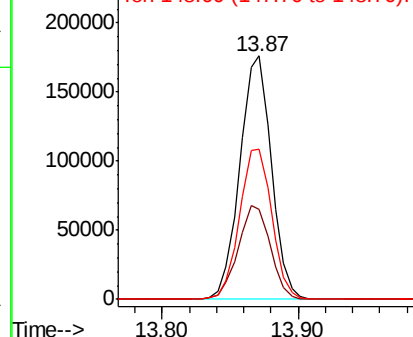
146 100

111 37.1 30.5 45.7

148 61.9 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: 20.953 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

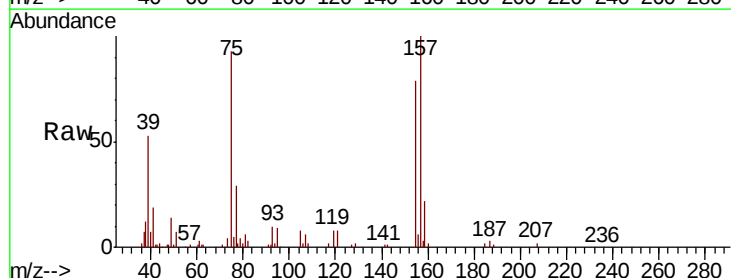
Tgt Ion: 75 Resp: 17288

Ion Ratio Lower Upper

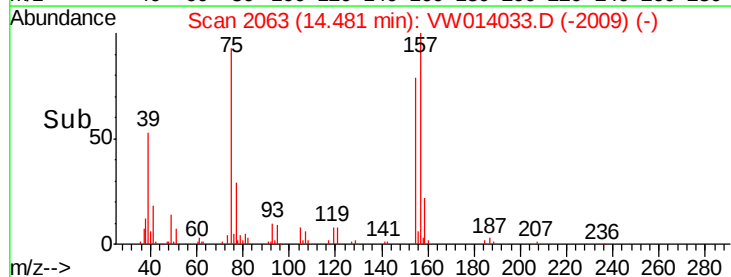
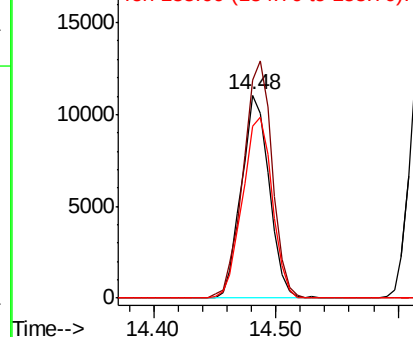
75 100

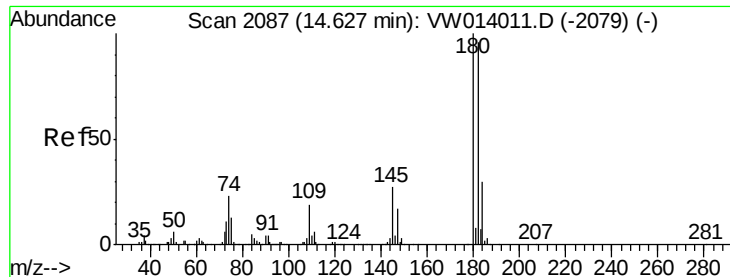
157 107.6 96.9 145.3

155 84.7 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

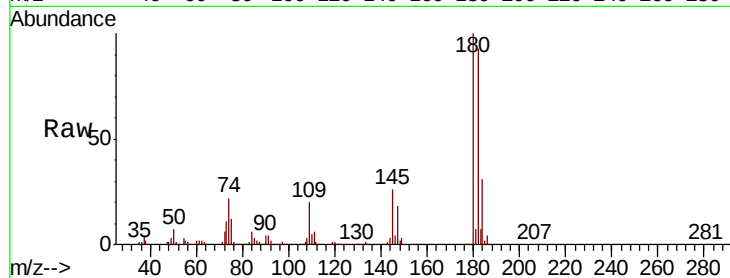




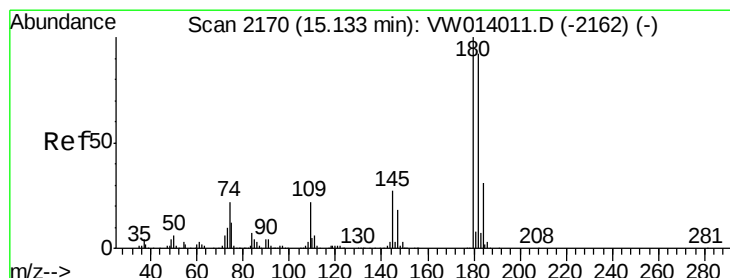
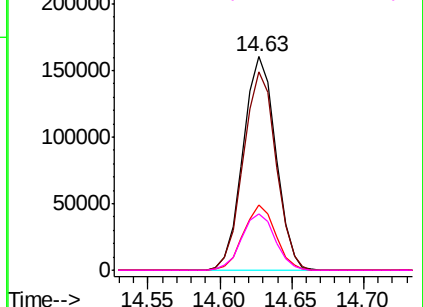
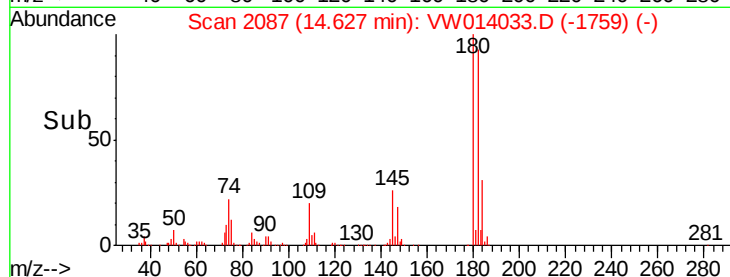
#67
 1,3,5-Trichlorobenzene
 Concen: 24.188 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014033.D
 Acq: 15 Nov 2019 11:06

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion:180	Resp:	252210
Ion Ratio	Lower	Upper
180	100	
182	93.2	76.2 114.2
184	29.9	24.3 36.5
145	27.0	21.9 32.9

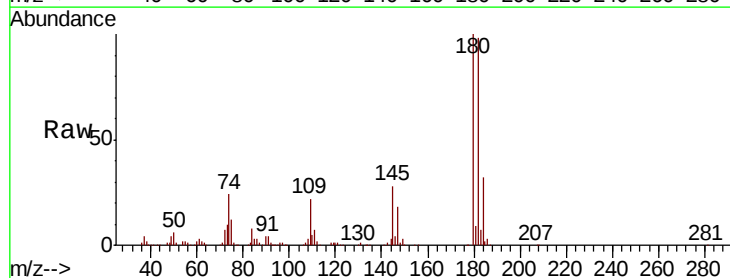


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

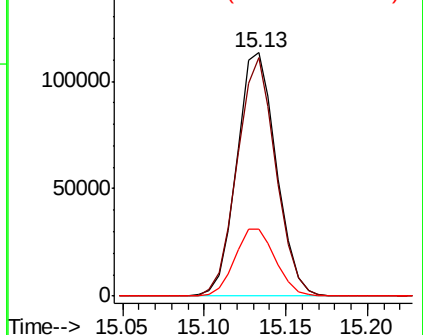
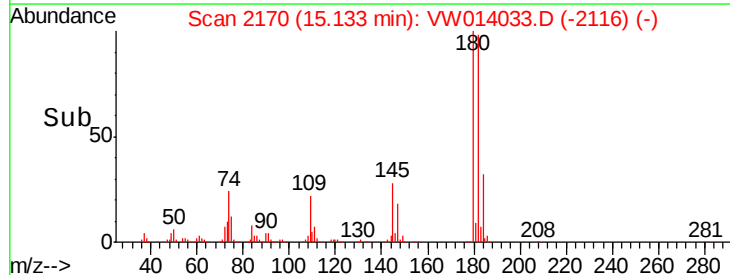


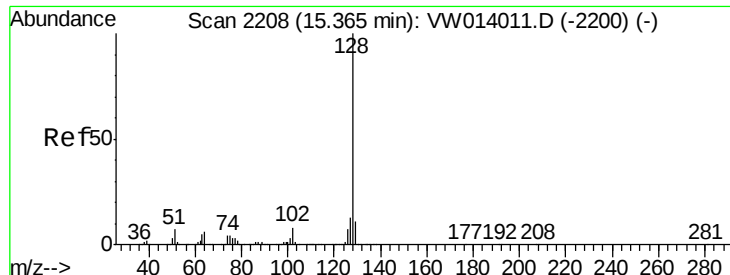
#68
 1,2,4-trichlorobenzene
 Concen: 23.244 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW014033.D
 Acq: 15 Nov 2019 11:06

Tgt Ion:180	Resp:	190573
Ion Ratio	Lower	Upper
180	100	
182	95.9	75.8 113.8
145	28.3	22.4 33.6



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





#69

Naphthalene

Concen: 21.331 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

Instrument :

MSVOA_W

ClientSampleId :

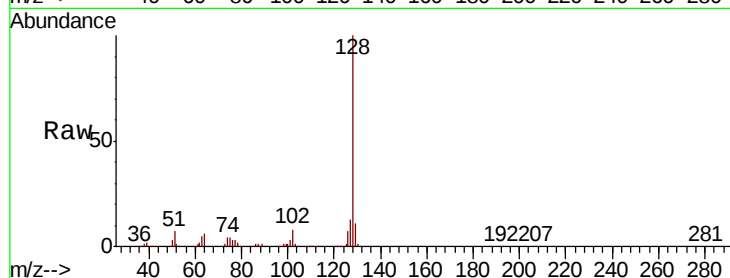
Tot Ion:128 Resp: 310692

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

127 13.7 10.4 15.6

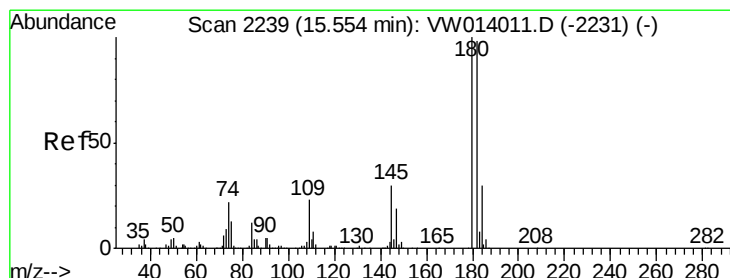
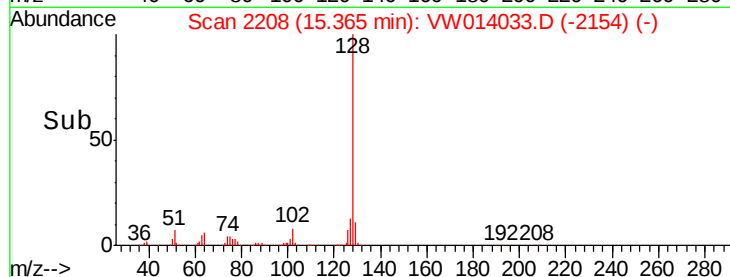
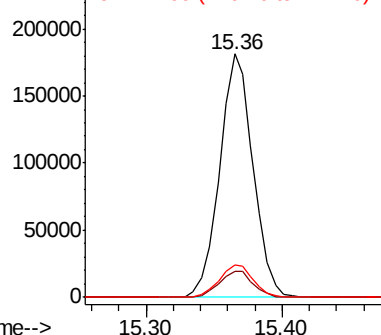


Abundance

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: 23.136 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014033.D

Acq: 15 Nov 2019 11:06

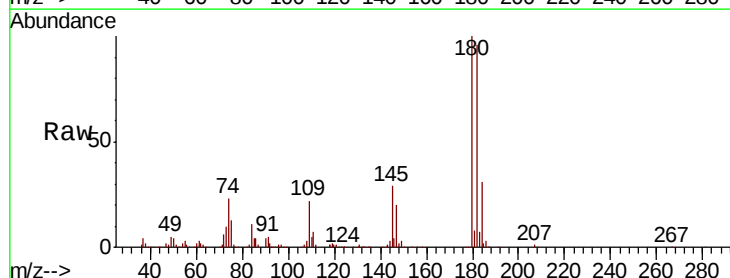
Tgt Ion:180 Resp: 167400

Ion Ratio Lower Upper

180 100

182 96.4 75.8 113.6

145 29.3 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

