

Data File : VW013890.D
Acq On : 01 Nov 2019 10:36
Operator : SY/VA
Sample : VSTD2.515
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.505

Quant Time: Nov 01 12:24:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM110119S.M
Quant Title : VOC Analysis
QLast Update : Fri Nov 01 12:21:46 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	297529	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	290438	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	171451	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	12906	2.85	ug/L	0.00
7) Chloroethane-d5	2.89	69	9580	2.70	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.03	63	25059	2.76	ug/L	0.00
20) 2-Butanone-d5	7.08	46	7352	4.62	ug/L	0.00
24) Chloroform-d	7.64	84	24810	2.72	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.30	65	13657	2.76	ug/L	0.00
29) Benzene-d6	8.27	84	50784	2.70	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	15769	2.80	ug/L	0.00
37) Toluene-d8	10.32	98	47118	2.62	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	6756	2.62	ug/L	0.00
39) 2-Hexanone-d5	10.92	63	5473	4.22	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	12954	2.53	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	18142	2.75	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.02	85	7935	2.412 ug/L	97
3) Chloromethane	2.21	50	9979	2.822 ug/L	99
5) Vinyl chloride	2.36	62	13690	2.730 ug/L	96
6) Bromomethane	2.78	94	8962	2.837 ug/L	96
8) Chloroethane	2.92	64	7561	2.670 ug/L	98
9) Trichlorofluoromethane	3.26	101	7030	3.215 ug/L	96
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	12673	2.580 ug/L	86
12) 1,1-Dichloroethene	4.03	96	13166	2.673 ug/L	82
13) Acetone	4.12	43	11033	7.406 ug/L	97
14) Carbon disulfide	4.39	76	36088	2.521 ug/L	# 93
15) Methyl Acetate	4.67	43	5585	2.036 ug/L	# 86
16) Methylene chloride	4.92	84	16840	2.895 ug/L	94
17) Methyl tert-butyl Ether	5.42	73	15878	2.589 ug/L	98
18) trans-1,2-Dichloroethene	5.42	96	13474	2.611 ug/L	97
19) 1,1-Dichloroethane	6.21	63	23105	2.618 ug/L	97
22) cis-1,2-Dichloroethene	7.17	96	13991	2.533 ug/L	99
23) Bromochloromethane	7.51	128	4881	1.893 ug/L	93
25) Chloroform	7.68	83	24172	2.728 ug/L	99
27) 1,2-Dichloroethane	8.40	62	15412	2.645 ug/L	99
30) Cyclohexane	7.96	56	21105	2.532 ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	18672	2.805 ug/L	99
32) Carbon tetrachloride	8.07	117	17757	2.680 ug/L	97
34) Benzene	8.32	78	54226	2.692 ug/L	100
35) Trichloroethene	9.09	95	14362	2.702 ug/L	98
36) Methylcyclohexane	9.33	83	24555	2.669 ug/L	98
40) 1,2-Dichloropropane	9.36	63	13162	2.645 ug/L	98
41) Bromodichloromethane	9.64	83	16095	2.576 ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	19096	2.445 ug/L	96
43) 4-Methyl-2-pentanone	10.21	43	19525	5.086 ug/L	95
44) Toluene	10.38	91	56024	2.576 ug/L	94

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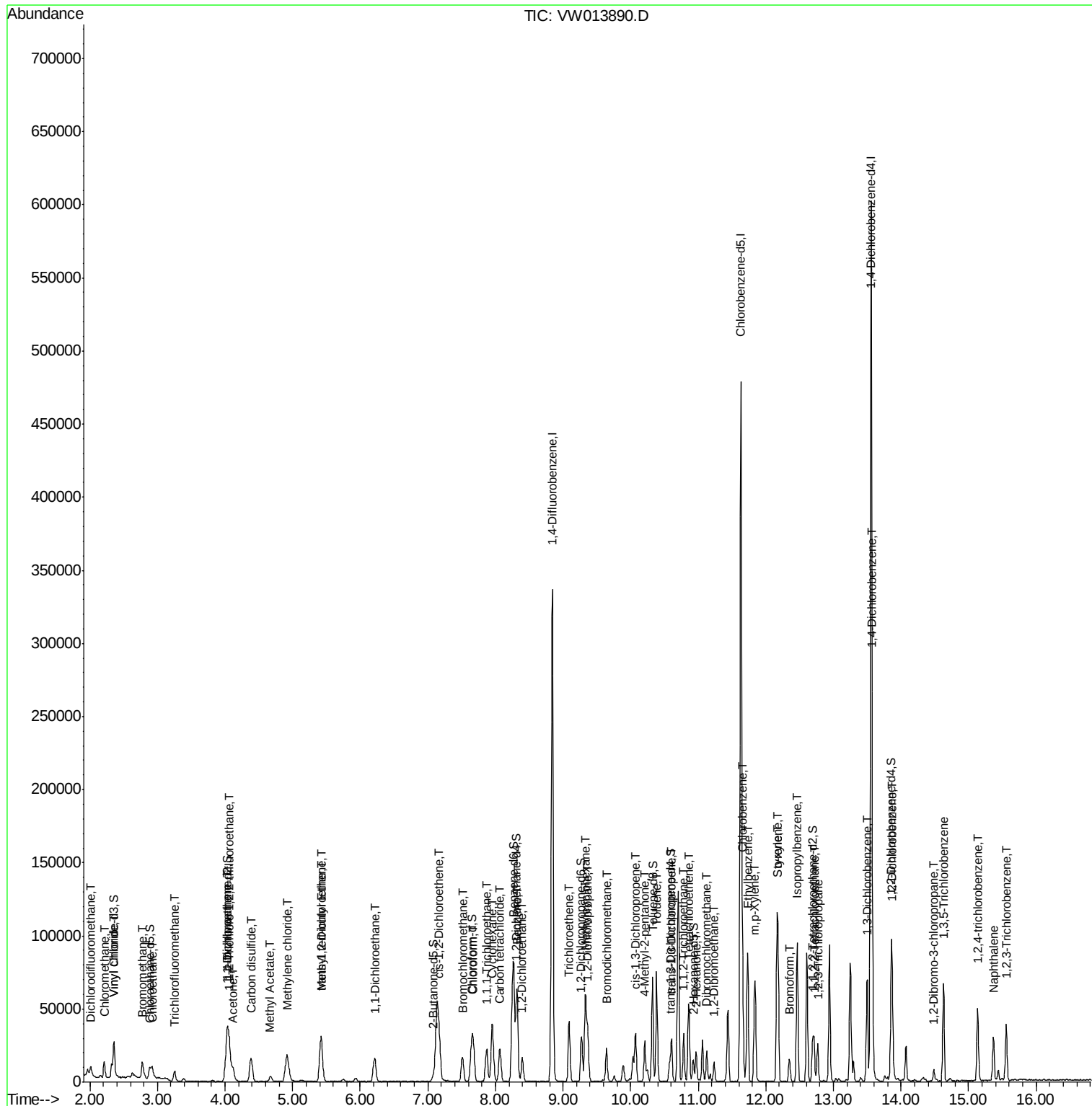
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) trans-1,3-Dichloropropene	10.60	75	15931	2.501	ug/L	96
46) 1,1,2-Trichloroethane	10.79	97	10661	2.658	ug/L	85
47) Tetrachloroethene	10.86	164	13561	2.841	ug/L	97
49) 2-Hexanone	10.97	43	13549	4.932	ug/L	95
50) Dibromochloromethane	11.13	129	11247	2.412	ug/L	93
51) 1,2-Dibromoethane	11.24	107	10042	2.558	ug/L #	96
52) Chlorobenzene	11.66	112	37233	2.640	ug/L	99
53) Ethylbenzene	11.73	91	62442	2.601	ug/L	92
54) m,p-Xylene	11.84	106	23736	2.527	ug/L	97
55) o-xylene	12.16	106	22126	2.503	ug/L	95
56) Styrene	12.18	104	37889	2.498	ug/L	98
57) Isopropylbenzene	12.46	105	59574	2.518	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	13044	2.590	ug/L	96
59) 1,2,3-Trichloropropane	12.77	75	9706	2.529	ug/L	98
62) Bromoform	12.35	173	7598	2.547	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	30282	2.706	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	31577	2.782	ug/L	95
65) 1,2-Dichlorobenzene	13.87	146	27425	2.651	ug/L	95
66) 1,2-Dibromo-3-chloropropan	14.48	75	2139	2.617	ug/L #	79
67) 1,3,5-Trichlorobenzene	14.63	180	21686	2.519	ug/L	98
68) 1,2,4-trichlorobenzene	15.13	180	17024	2.465	ug/L	93
69) Naphthalene	15.36	128	26642	2.006	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	15403	2.413	ug/L	98

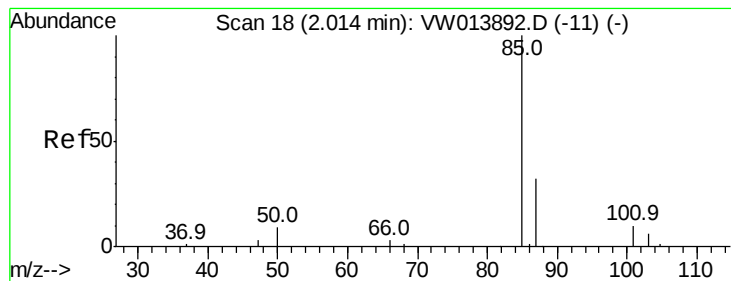
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.412 ug/L

RT: 2.02 min Scan# 19

Delta R.T. 0.01 min

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Instrument :

MSVOA_W

ClientSampleId :

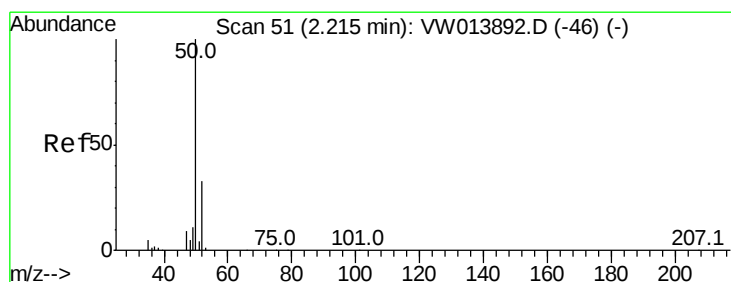
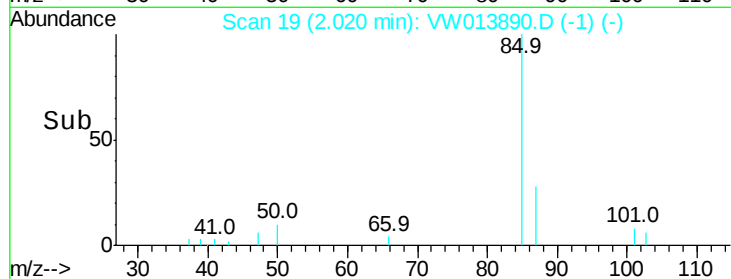
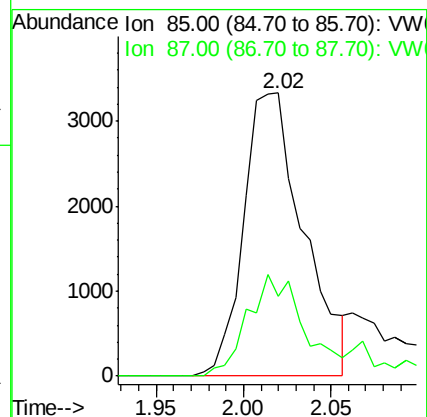
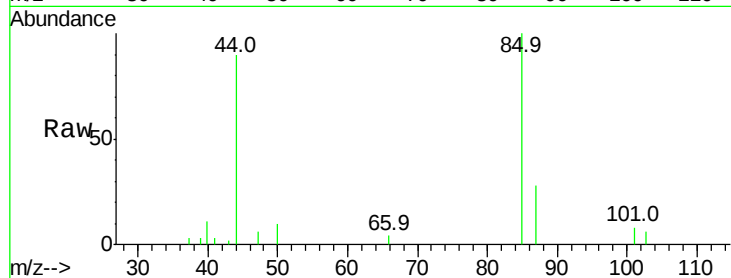
VSTD2.505

Tgt Ion: 85 Resp: 7935

Ion Ratio Lower Upper

85 100

87 29.2 21.6 40.2



#3

Chloromethane

Concen: 2.822 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW013890.D

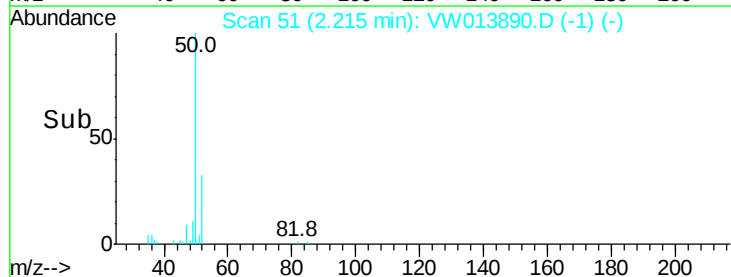
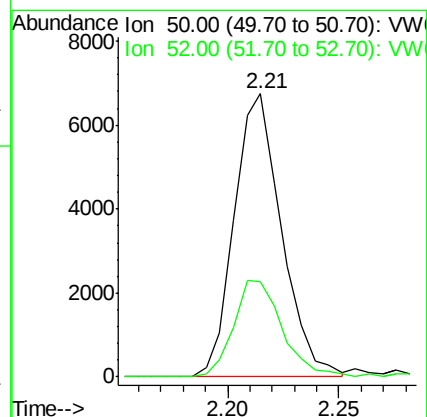
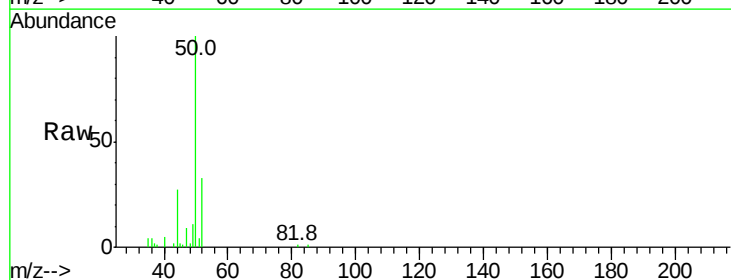
Acq: 01 Nov 2019 10:36

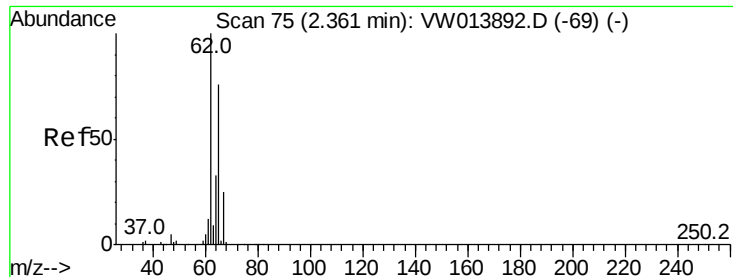
Tgt Ion: 50 Resp: 9979

Ion Ratio Lower Upper

50 100

52 33.5 23.0 42.6





#5

Vinyl chloride

Concen: 2.730 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Instrument :

MSVOA_W

ClientSampleId :

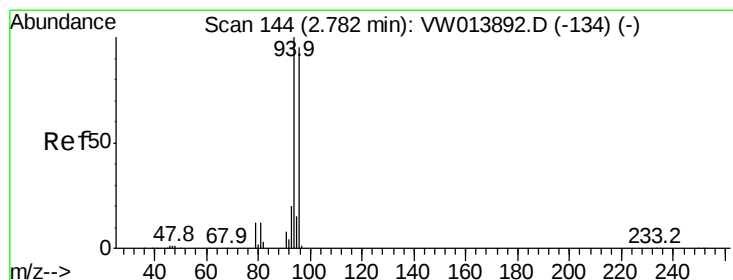
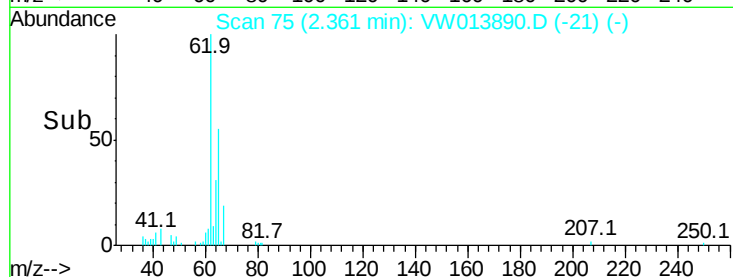
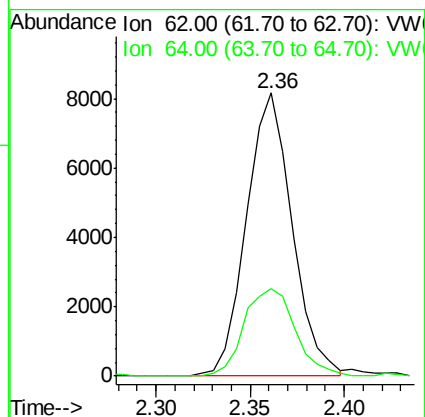
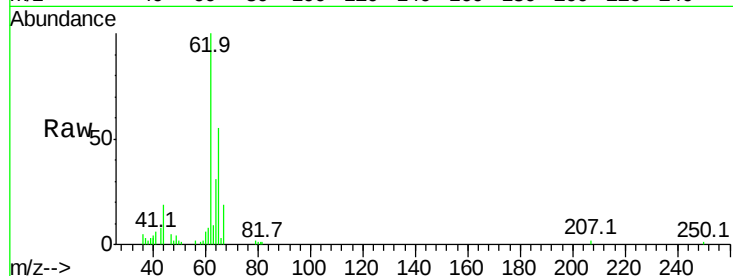
VSTD2.505

Tgt Ion: 62 Resp: 13690

Ion Ratio Lower Upper

62 100

64 31.0 23.3 43.3



#6

Bromomethane

Concen: 2.837 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW013890.D

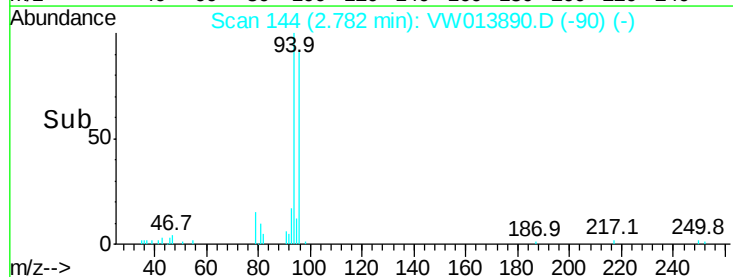
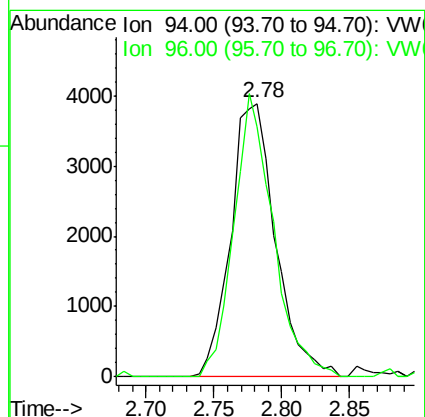
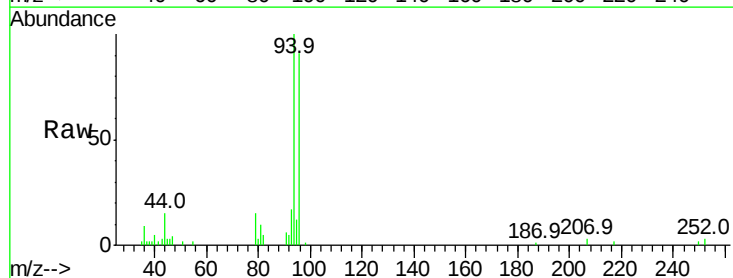
Acq: 01 Nov 2019 10:36

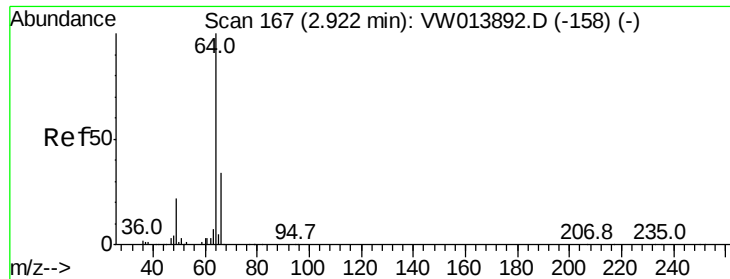
Tgt Ion: 94 Resp: 8962

Ion Ratio Lower Upper

94 100

96 91.0 9.5 179.7





#8

Chloroethane

Concen: 2.670 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Instrument :

MSVOA_W

ClientSampleId :

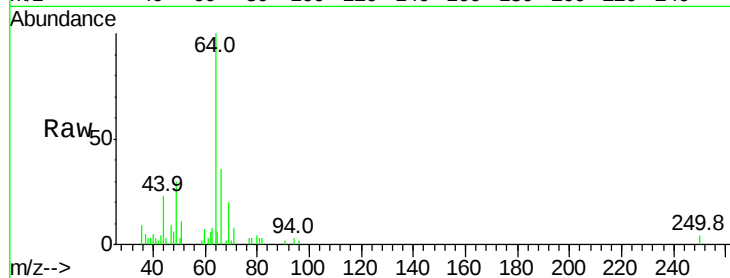
VSTD2.505

Tgt Ion: 64 Resp: 7561

Ion Ratio Lower Upper

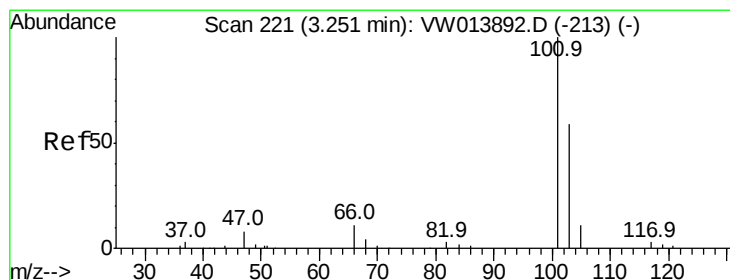
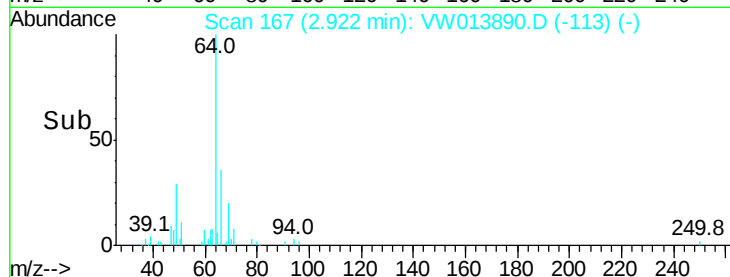
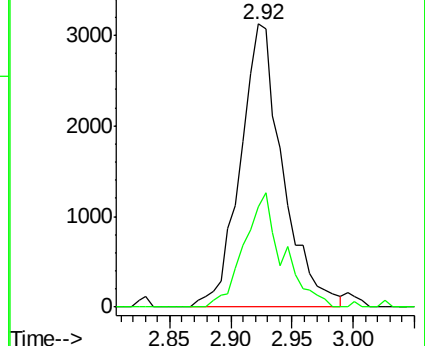
64 100

66 35.5 24.1 44.7



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW



#9

Trichlorofluoromethane

Concen: 3.215 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.01 min

Lab File: VW013890.D

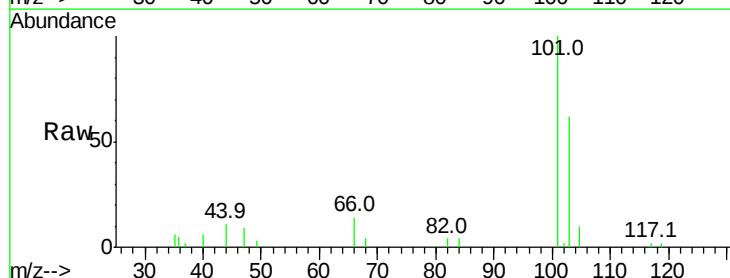
Acq: 01 Nov 2019 10:36

Tgt Ion: 101 Resp: 7030

Ion Ratio Lower Upper

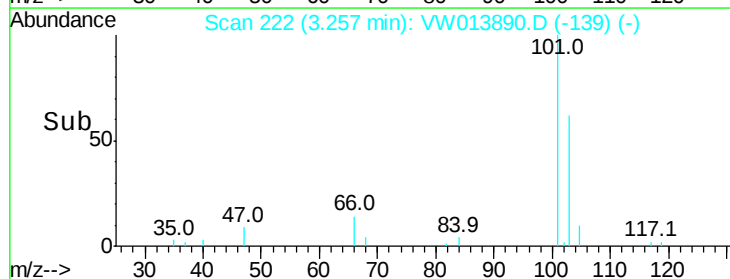
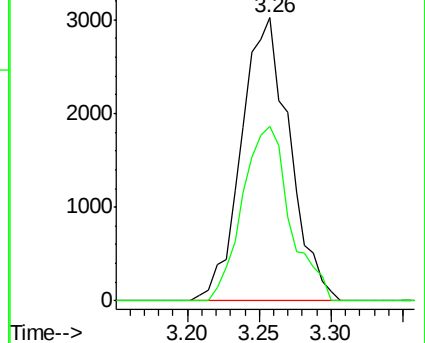
101 100

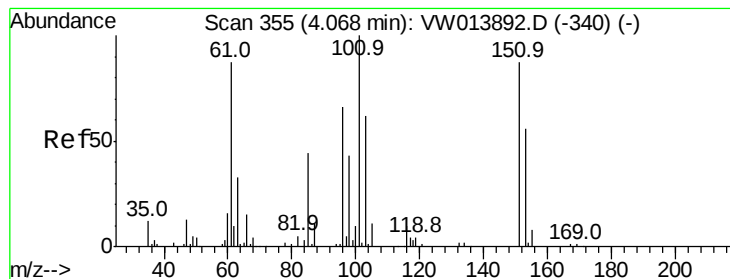
103 60.8 44.9 83.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#11

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

Concen: 2.580 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.505

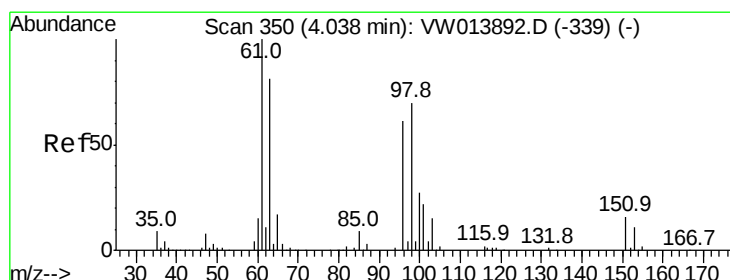
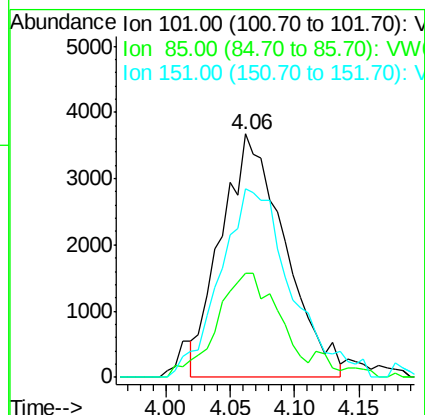
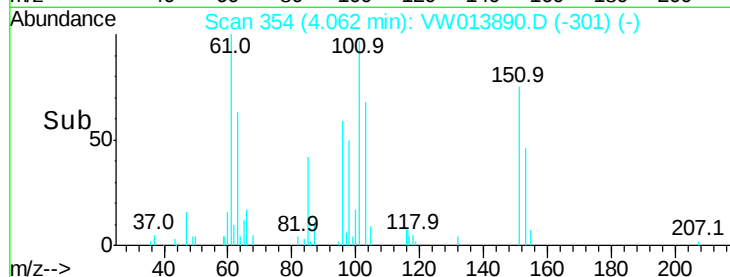
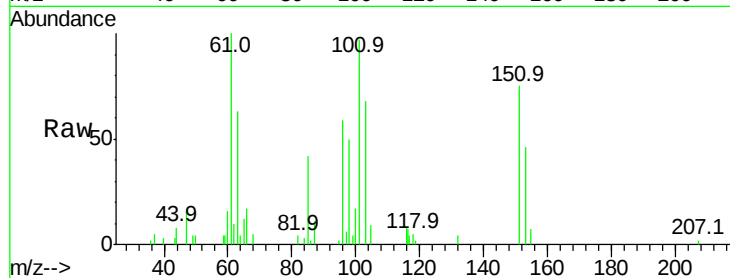
Tgt Ion: 101 Resp: 12673

Ion Ratio Lower Upper

101 100

85 41.5 30.9 46.3

151 67.0 66.3 99.5



#12

1,1-Dichloroethene

Concen: 2.673 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

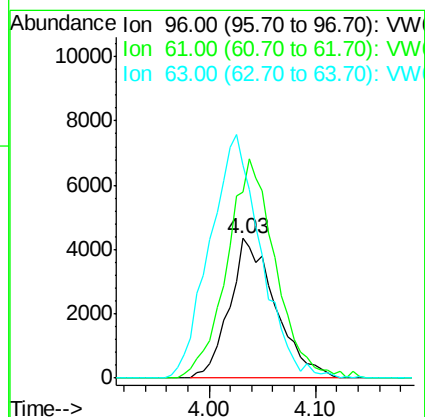
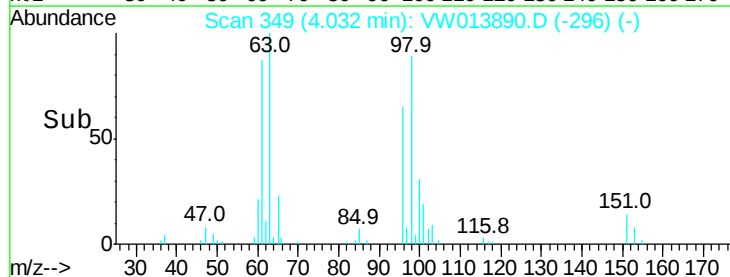
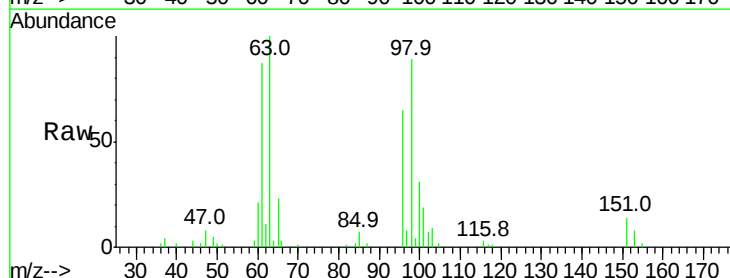
Tgt Ion: 96 Resp: 13166

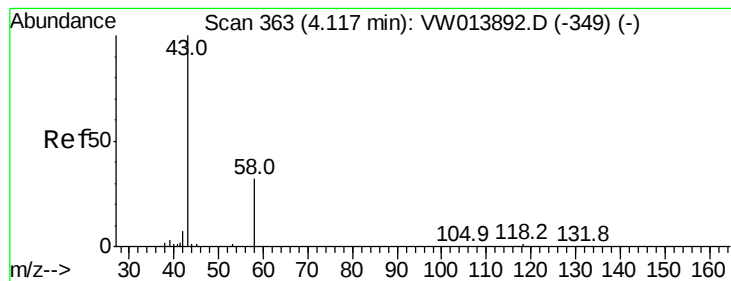
Ion Ratio Lower Upper

96 100

61 133.5 115.1 213.8

63 152.8 97.4 180.8





#13

Acetone

Concen: 7.406 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

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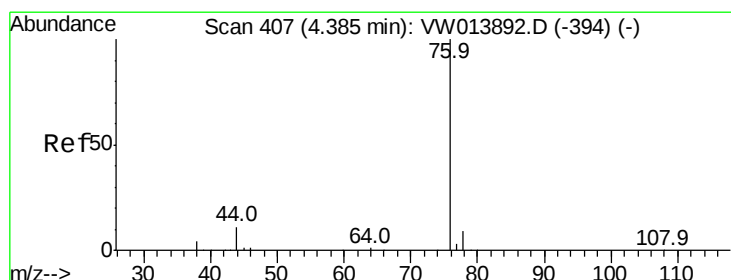
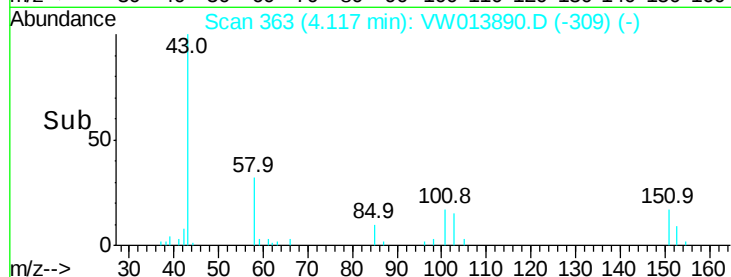
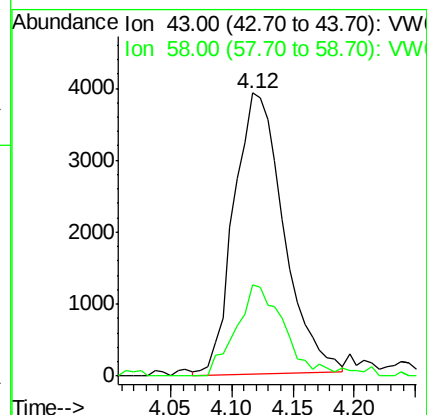
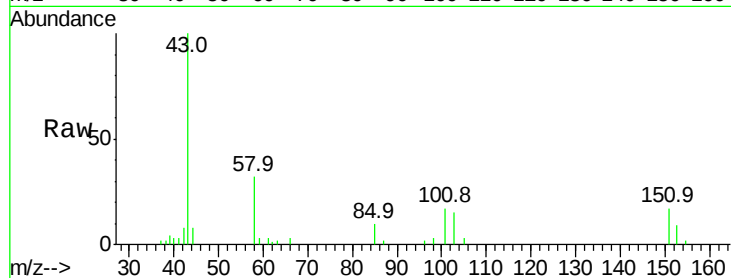
VSTD2.505

Tgt Ion: 43 Resp: 11033

Ion Ratio Lower Upper

43 100

58 29.9 0.0 62.8



#14

Carbon disulfide

Concen: 2.521 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW013890.D

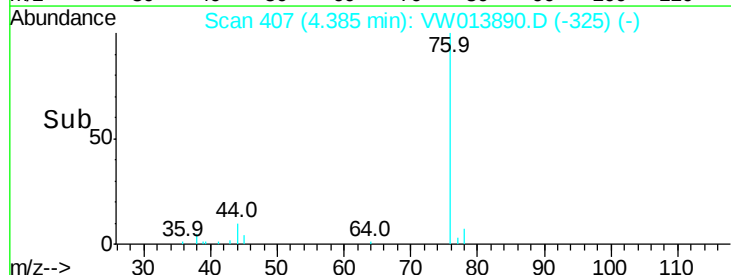
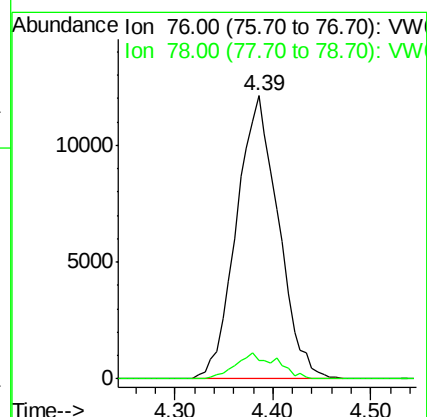
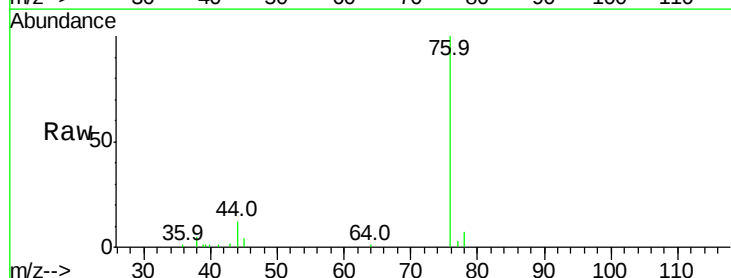
Acq: 01 Nov 2019 10:36

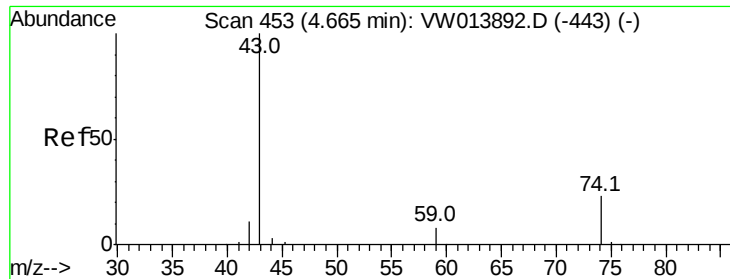
Tgt Ion: 76 Resp: 36088

Ion Ratio Lower Upper

76 100

78 6.7 7.3 10.9#

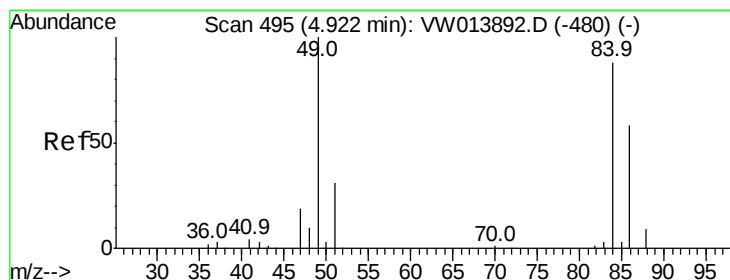
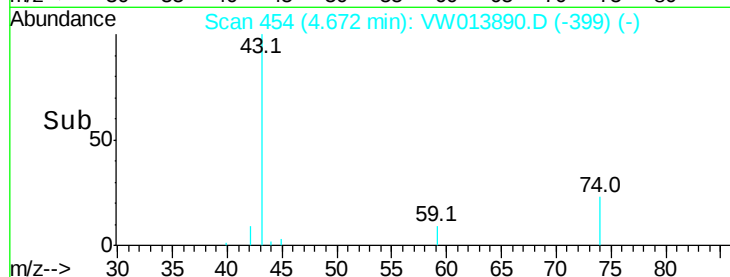
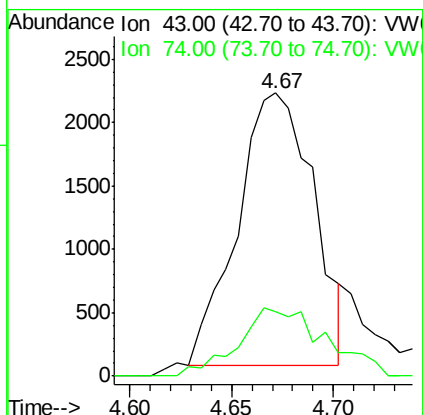
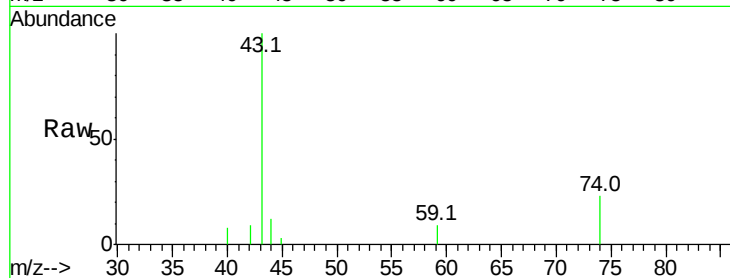




#15
Methyl Acetate
Concen: 2.036 ug/L
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW013890.D
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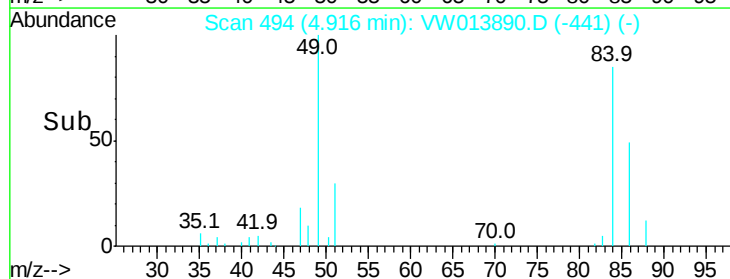
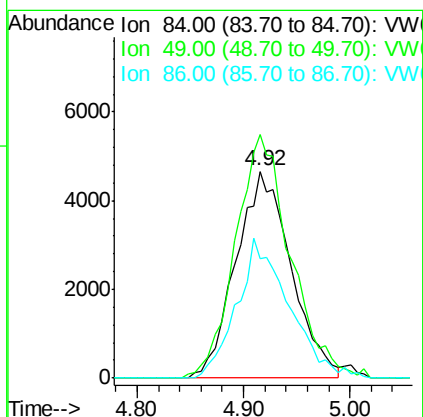
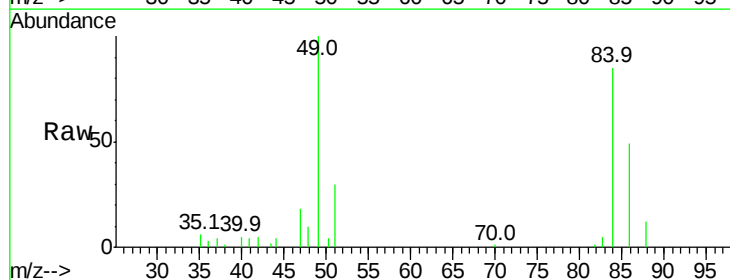
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.505

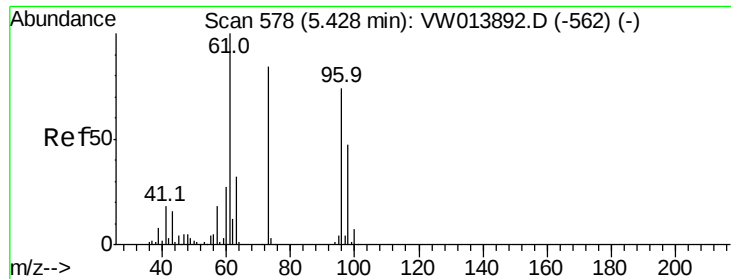
Tgt Ion: 43 Resp: 5585
Ion Ratio Lower Upper
43 100
74 17.0 19.1 28.7#



#16
Methylene chloride
Concen: 2.895 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW013890.D
Acq: 01 Nov 2019 10:36

Tgt Ion: 84 Resp: 16840
Ion Ratio Lower Upper
84 100
49 117.9 79.7 148.1
86 57.9 46.4 86.2

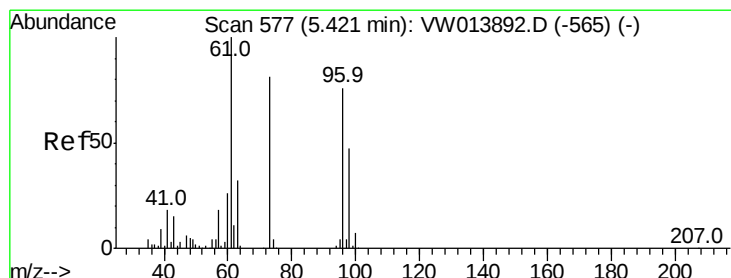
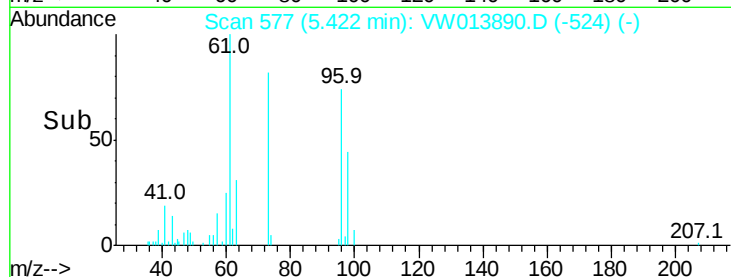
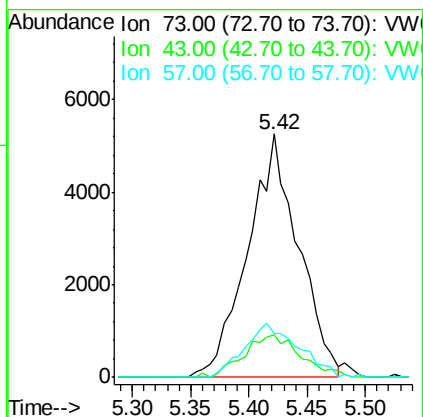
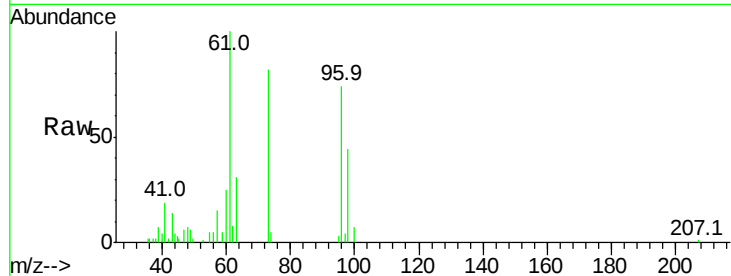




#17
Methyl tert-butyl Ether
Concen: 2.589 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.01 min
Lab File: VW013890.D
Acq: 01 Nov 2019 10:36

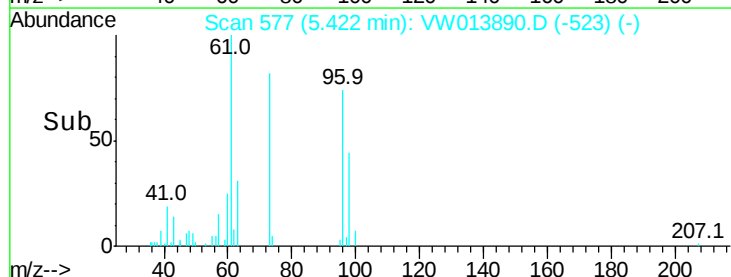
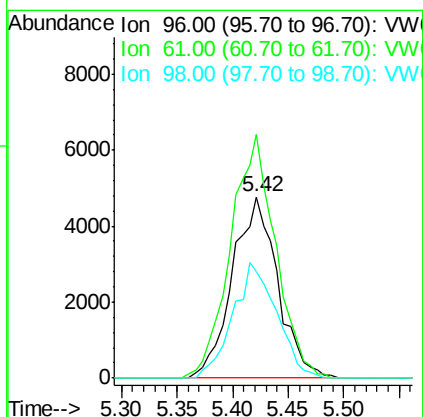
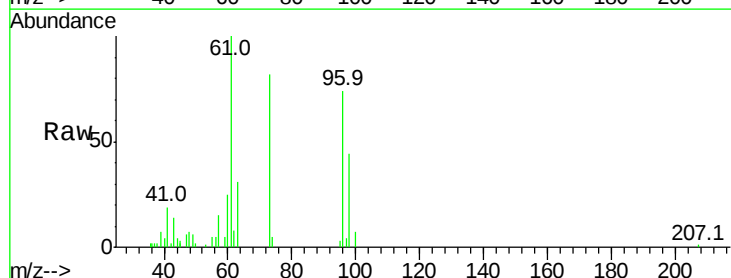
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.505

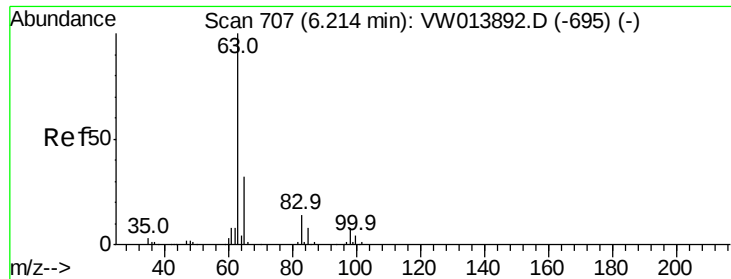
Tgt Ion: 73 Resp: 15878
Ion Ratio Lower Upper
73 100
43 18.5 14.4 21.6
57 23.2 17.8 26.6



#18
trans-1,2-Dichloroethene
Concen: 2.611 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW013890.D
Acq: 01 Nov 2019 10:36

Tgt Ion: 96 Resp: 13474
Ion Ratio Lower Upper
96 100
61 134.3 92.6 172.0
98 58.9 43.8 81.3

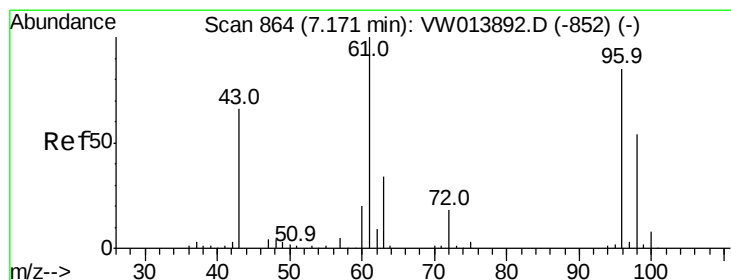
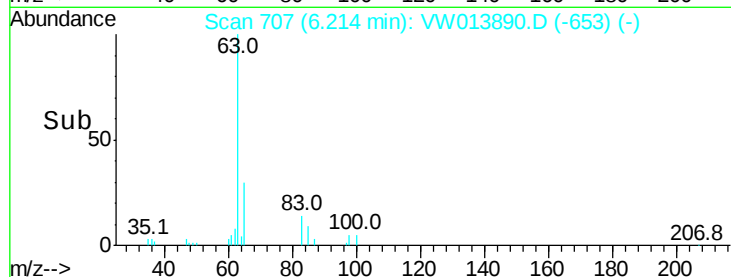
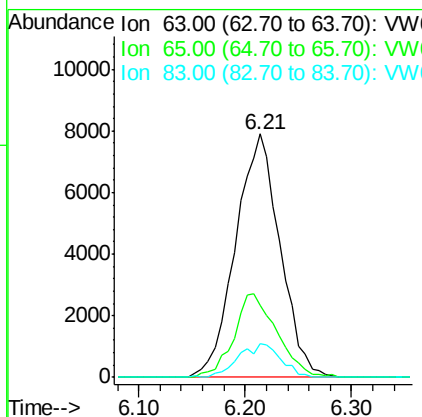
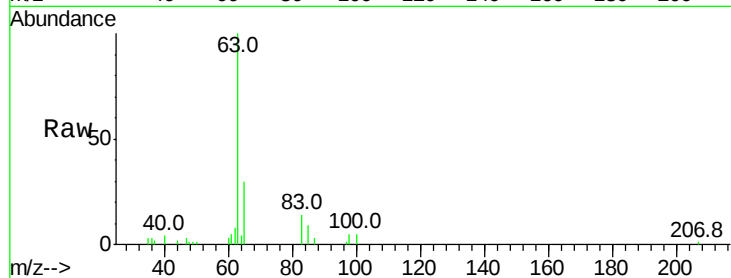




#19
 1,1-Dichloroethane
 Concen: 2.618 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VW013890.D
 Acq: 01 Nov 2019 10:36

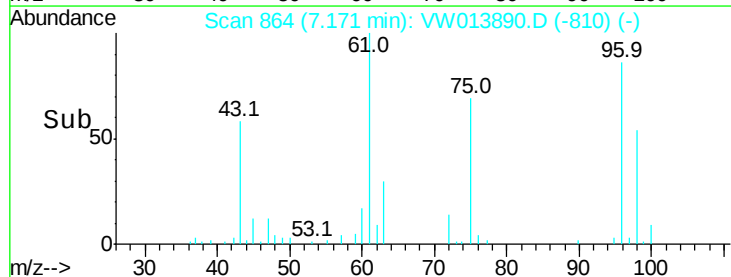
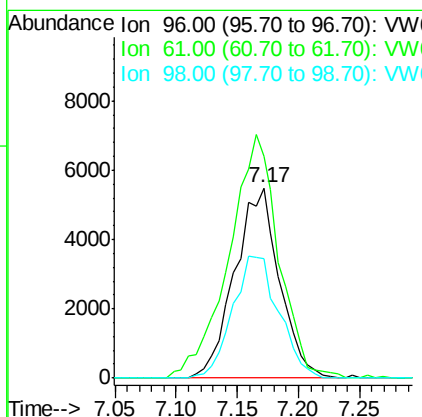
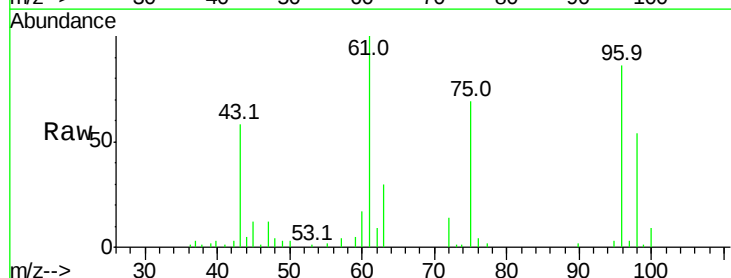
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.505

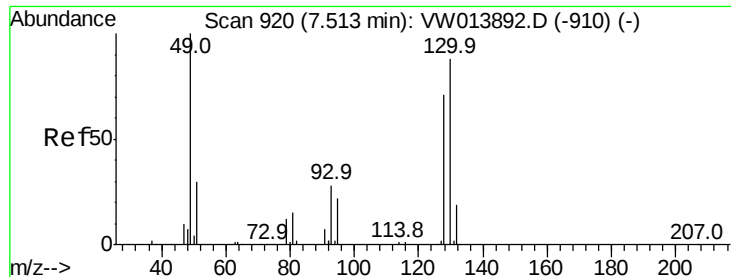
Tgt Ion:	63	Resp:	23105
Ion	Ratio	Lower	Upper
63	100		
65	29.7	22.3	41.5
83	13.9	10.1	18.7



#22
 cis-1,2-Dichloroethene
 Concen: 2.533 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VW013890.D
 Acq: 01 Nov 2019 10:36

Tgt Ion:	96	Resp:	13991
Ion	Ratio	Lower	Upper
96	100		
61	116.5	82.3	152.9
98	62.6	44.0	81.8





#23

Bromochloromethane

Concen: 1.893 ug/L

RT: 7.51 min Scan# 919

Delta R.T. -0.01 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.505

Tgt Ion:128 Resp: 4881

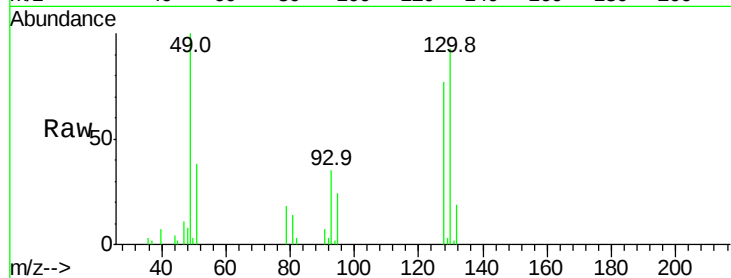
Ion Ratio Lower Upper

128 100

49 129.5 98.7 183.3

130 121.1 86.8 161.2

51 49.3 34.2 51.2

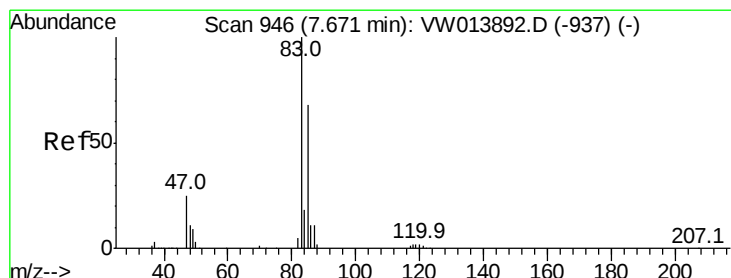
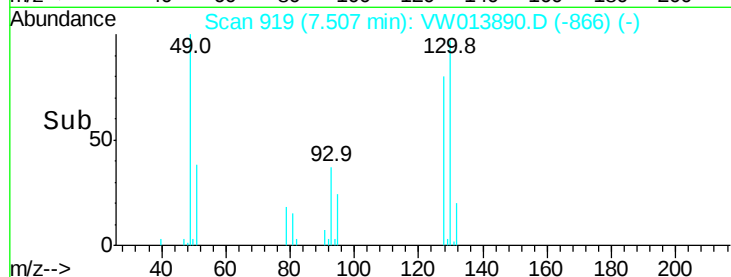
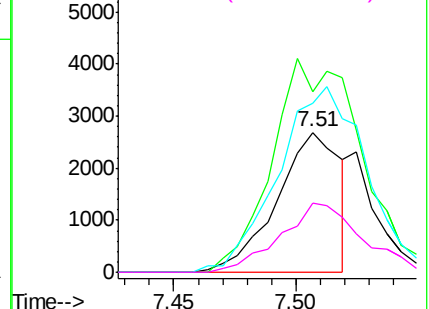


Abundance Ion 128.00 (127.70 to 128.70): V

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: 2.728 ug/L

RT: 7.68 min Scan# 947

Delta R.T. 0.01 min

Lab File: VW013890.D

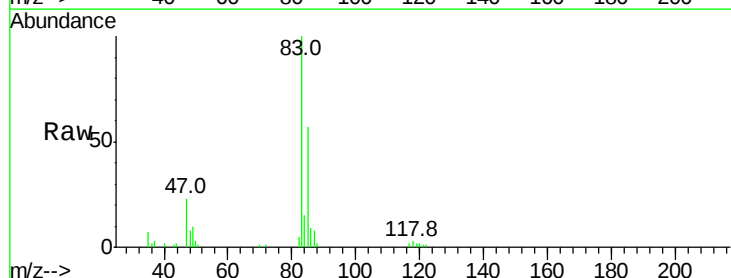
Acq: 01 Nov 2019 10:36

Tgt Ion: 83 Resp: 24172

Ion Ratio Lower Upper

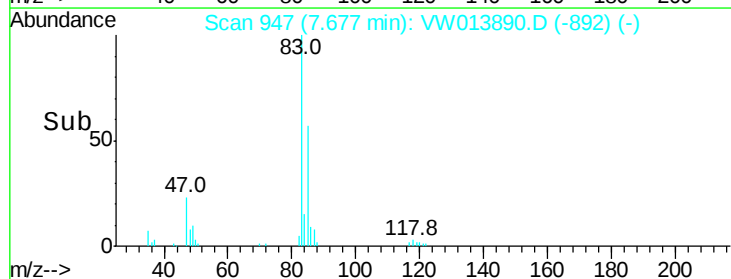
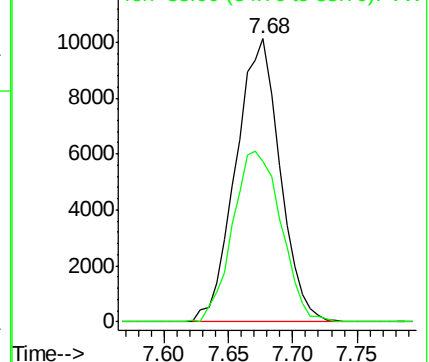
83 100

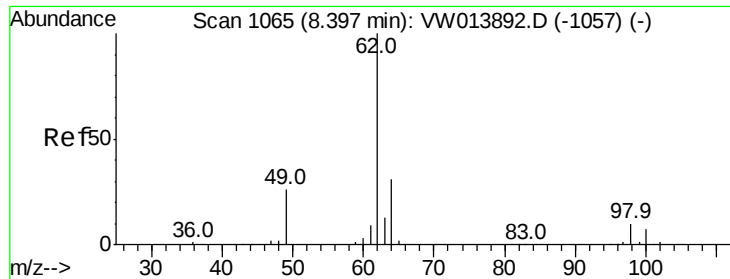
85 65.8 46.9 87.1



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

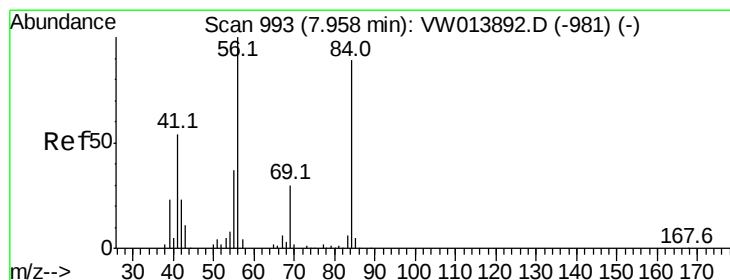
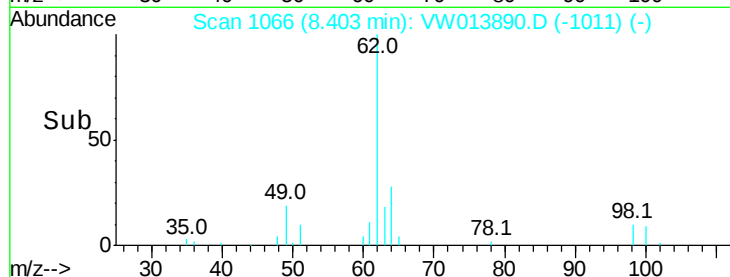
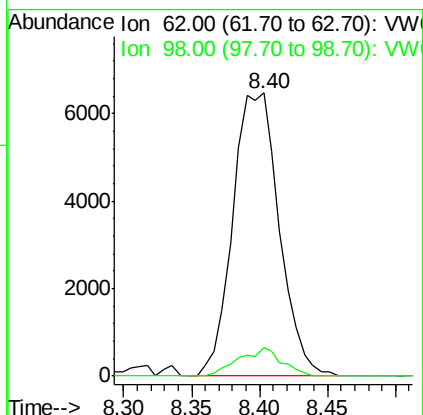
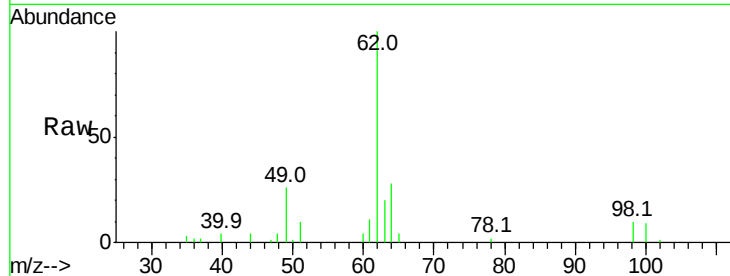




#27
 1,2-Dichloroethane
 Concen: 2.645 ug/L
 RT: 8.40 min Scan# 1066
 Delta R.T. 0.01 min
 Lab File: VW013890.D
 Acq: 01 Nov 2019 10:36

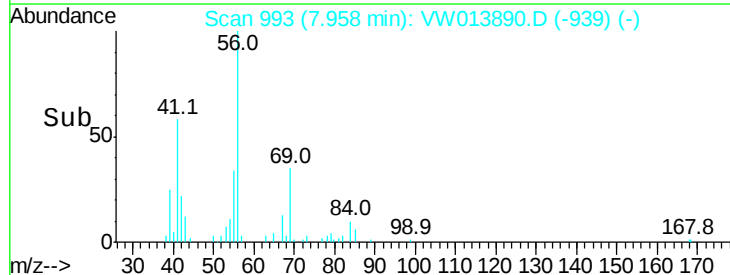
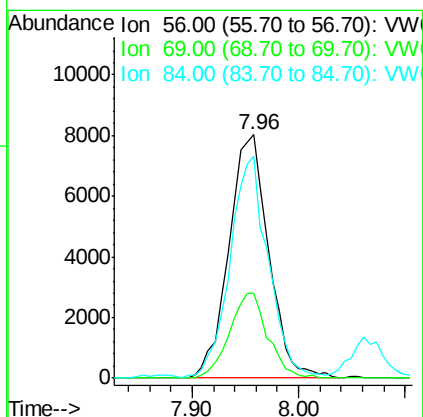
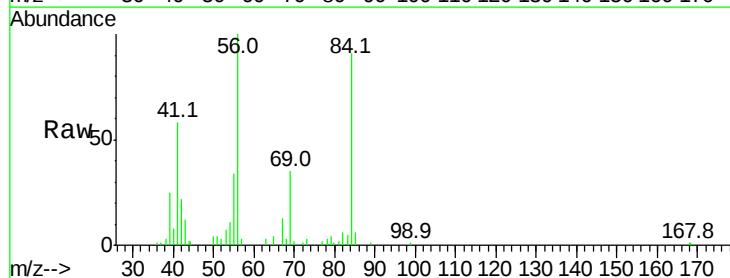
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.505

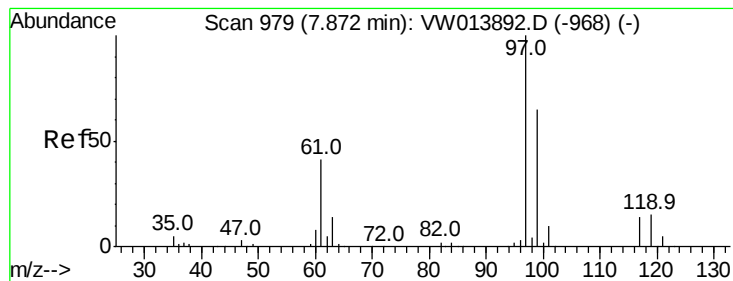
Tgt Ion: 62 Resp: 15412
 Ion Ratio Lower Upper
 62 100
 98 10.0 8.2 12.2



#30
 Cyclohexane
 Concen: 2.532 ug/L
 RT: 7.96 min Scan# 993
 Delta R.T. 0.00 min
 Lab File: VW013890.D
 Acq: 01 Nov 2019 10:36

Tgt Ion: 56 Resp: 21105
 Ion Ratio Lower Upper
 56 100
 69 33.1 24.5 36.7
 84 87.9 70.6 105.8





#31

1,1,1-Trichloroethane

Concen: 2.805 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.505

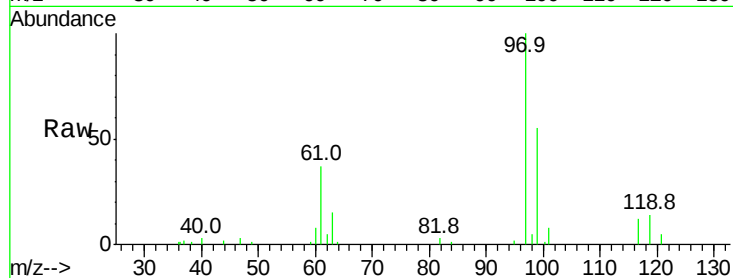
Tgt Ion: 97 Resp: 18672

Ion Ratio Lower Upper

97 100

99 63.5 52.0 78.0

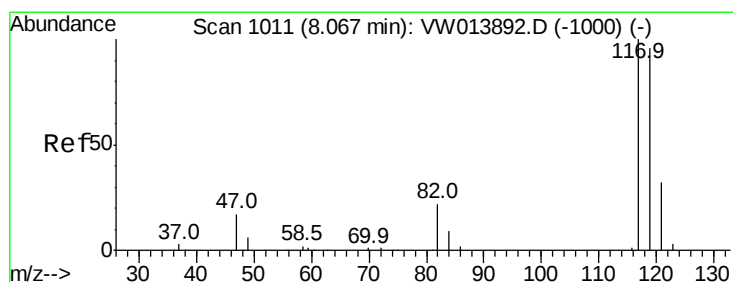
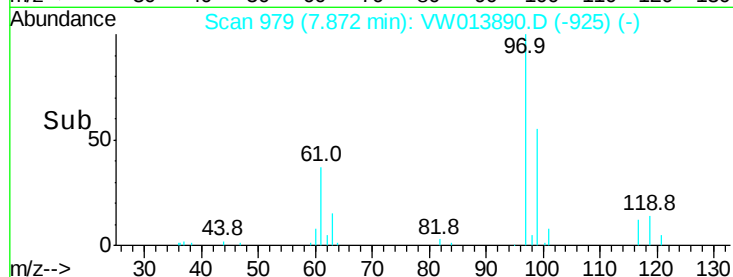
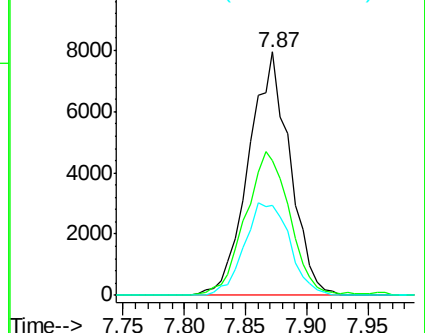
61 41.6 33.6 50.4



Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.00 (60.70 to 61.70): VW



#32

Carbon tetrachloride

Concen: 2.680 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW013890.D

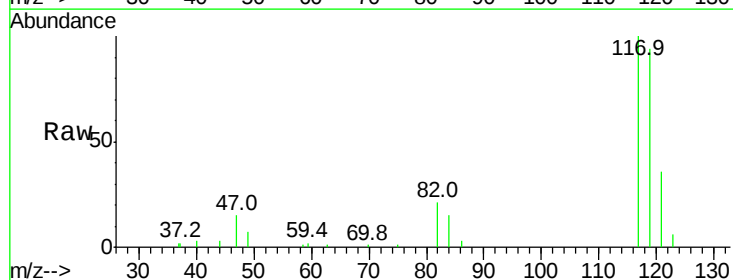
Acq: 01 Nov 2019 10:36

Tgt Ion: 117 Resp: 17757

Ion Ratio Lower Upper

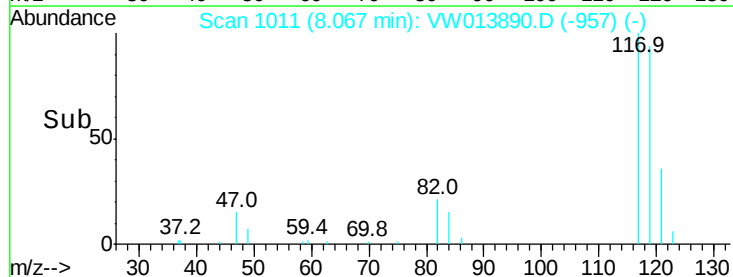
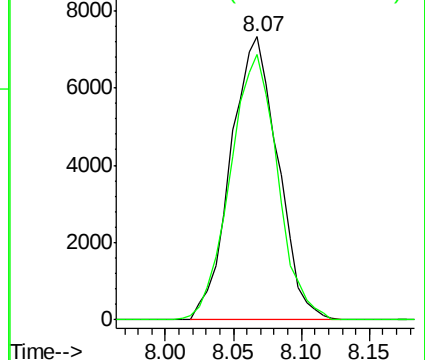
117 100

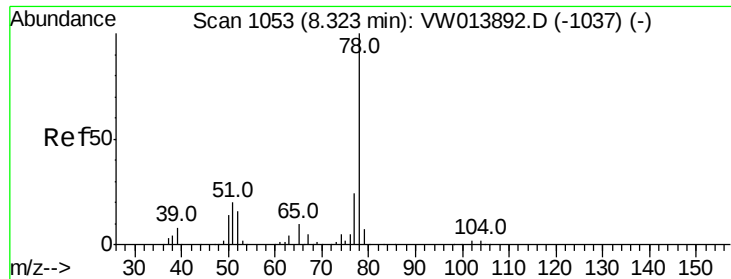
119 94.3 77.9 116.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 2.692 ug/L

RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

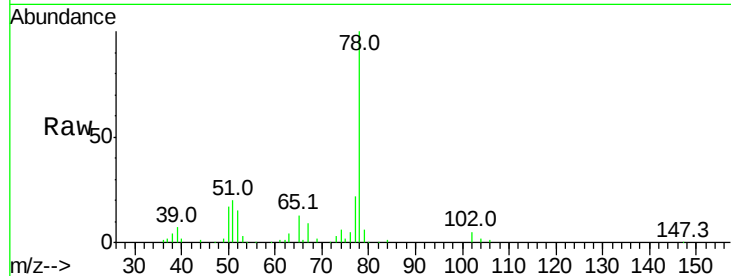
Instrument :

MSVOA_W

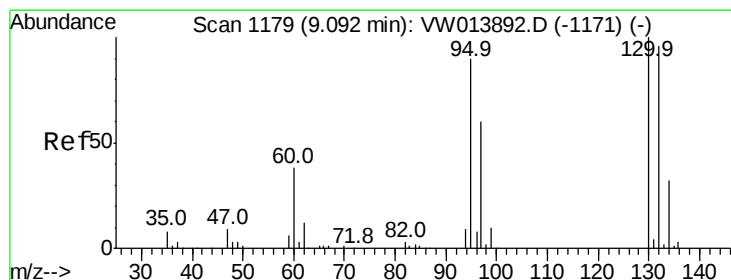
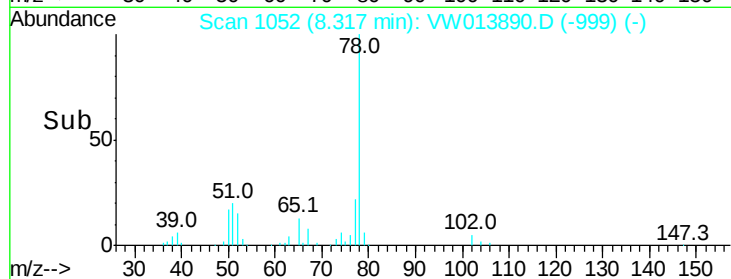
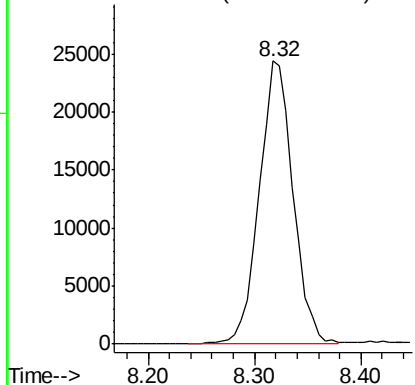
ClientSampleId :

VSTD2.505

Tgt Ion: 78 Resp: 54226



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 2.702 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Tgt Ion: 95 Resp: 14362

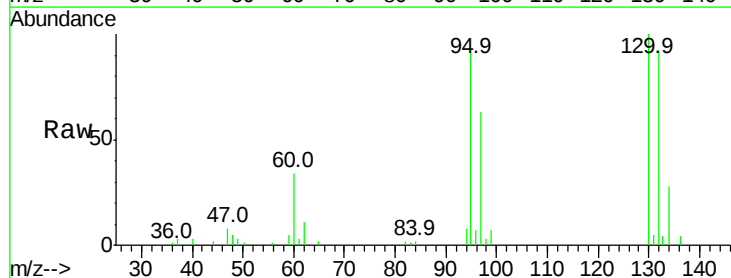
Ion	Ratio	Lower	Upper
95	100		
97	66.2	44.9	83.5
132	107.1	73.3	136.1
130	108.4	75.5	140.1

95 100

97 66.2 44.9 83.5

132 107.1 73.3 136.1

130 108.4 75.5 140.1

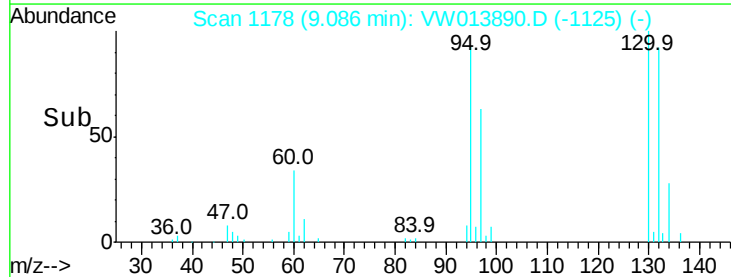
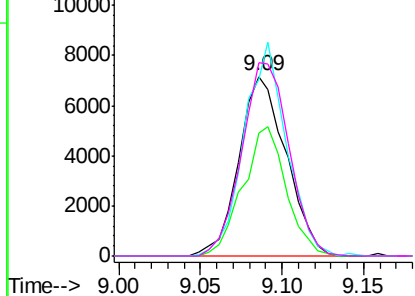


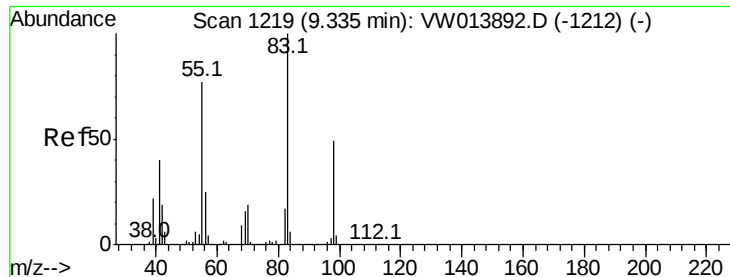
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

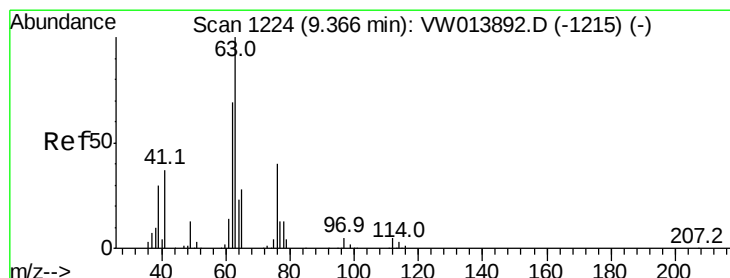
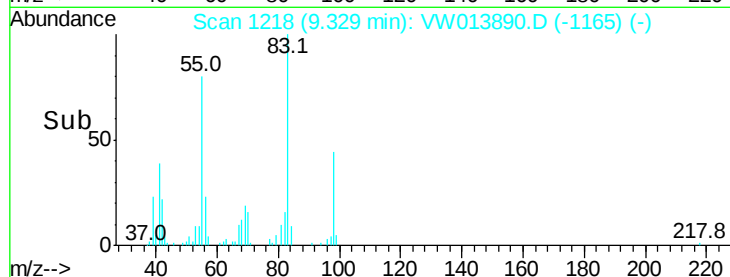
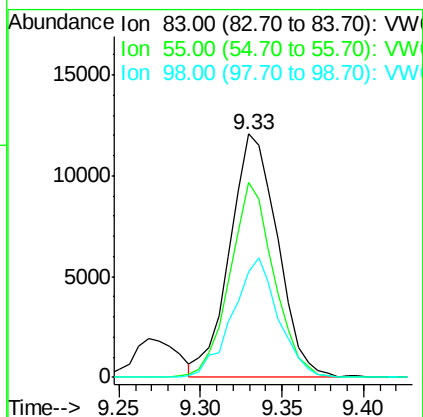
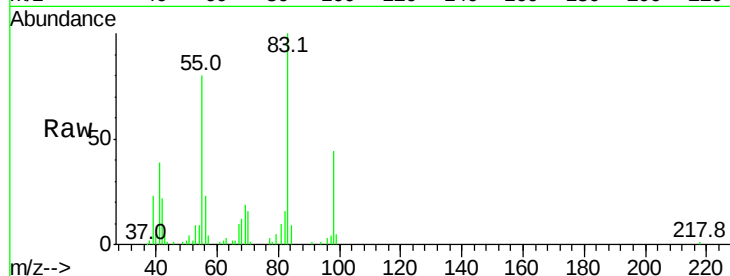




#36
Methylcyclohexane
Concen: 2.669 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW013890.D
Acq: 01 Nov 2019 10:36

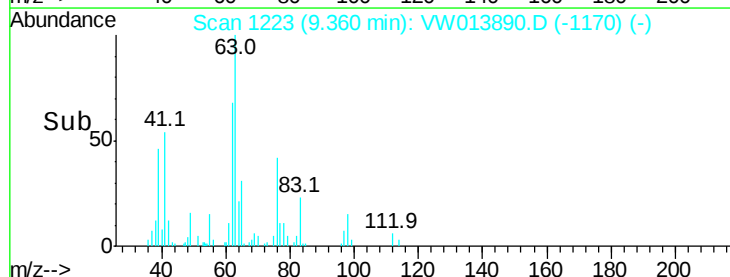
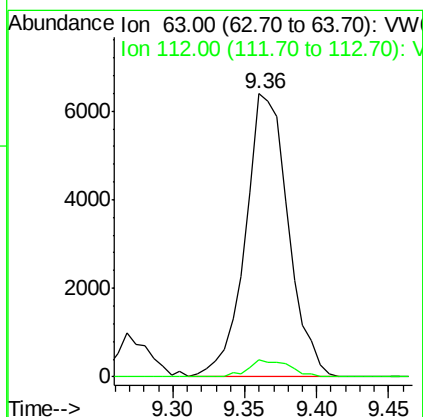
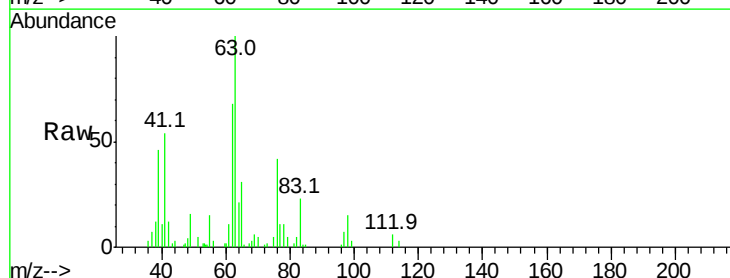
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.505

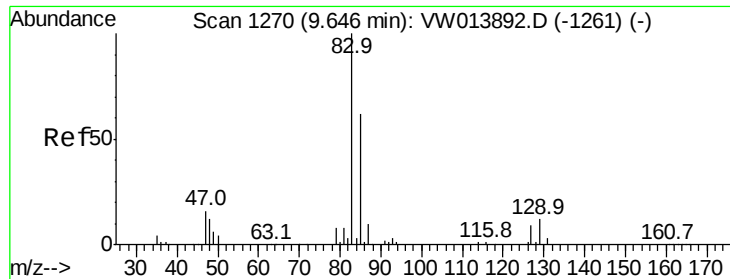
Tgt Ion: 83 Resp: 24555
Ion Ratio Lower Upper
83 100
55 73.9 60.2 90.2
98 47.0 39.2 58.8



#40
1,2-Dichloropropane
Concen: 2.645 ug/L
RT: 9.36 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VW013890.D
Acq: 01 Nov 2019 10:36

Tgt Ion: 63 Resp: 13162
Ion Ratio Lower Upper
63 100
112 5.7 3.9 5.9





#41

Bromodichloromethane

Concen: 2.576 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.505

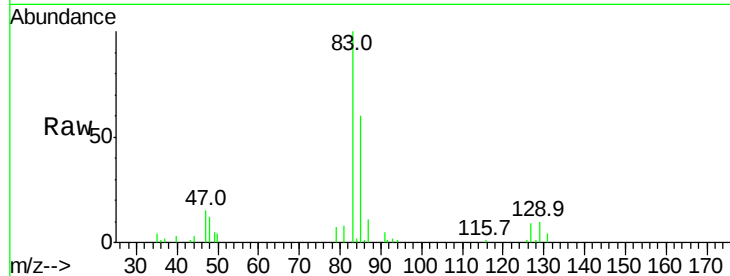
Tgt Ion: 83 Resp: 16095

Ion Ratio Lower Upper

83 100

85 60.5 43.5 80.7

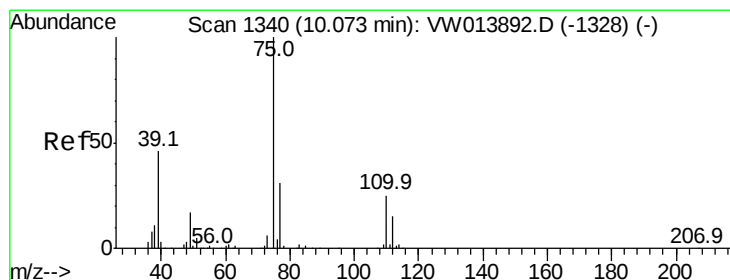
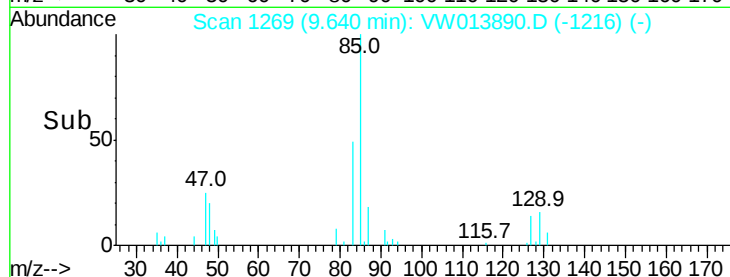
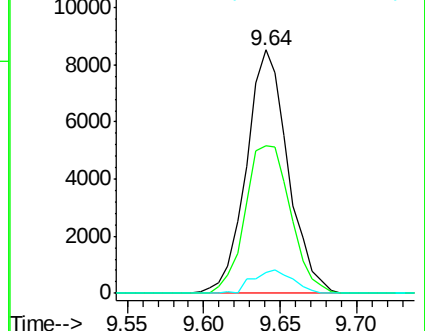
127 8.5 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): VW



#42

cis-1,3-Dichloropropene

Concen: 2.445 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW013890.D

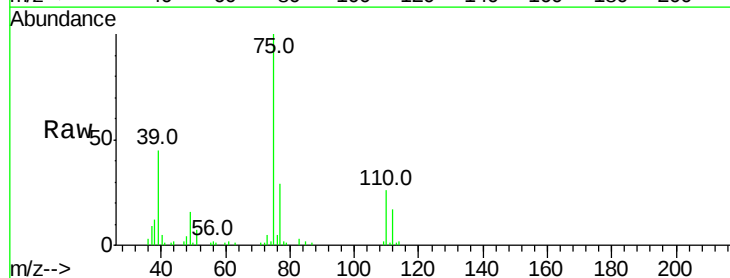
Acq: 01 Nov 2019 10:36

Tgt Ion: 75 Resp: 19096

Ion Ratio Lower Upper

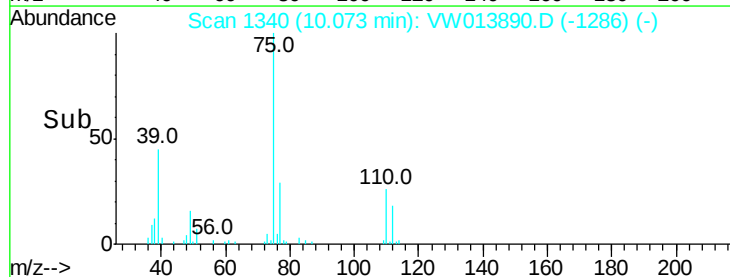
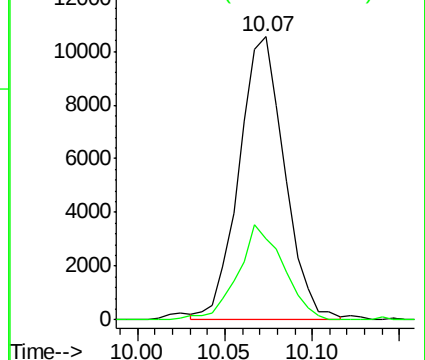
75 100

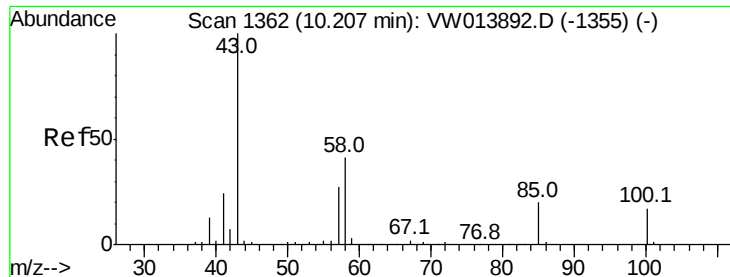
77 28.8 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

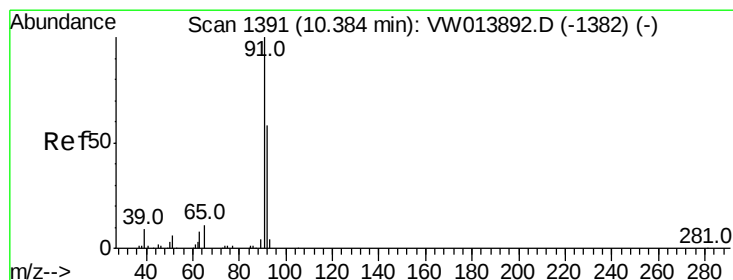
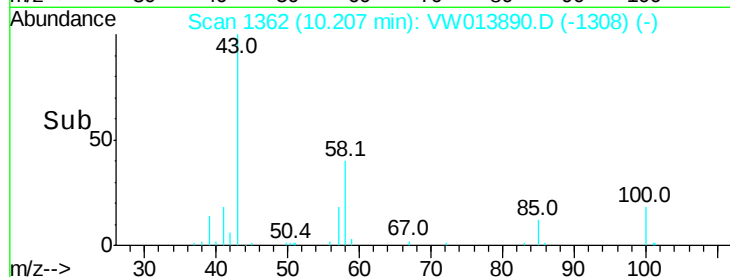
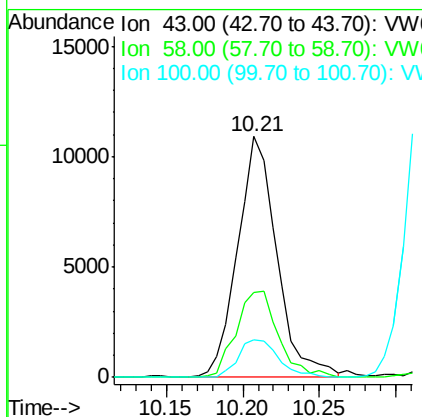
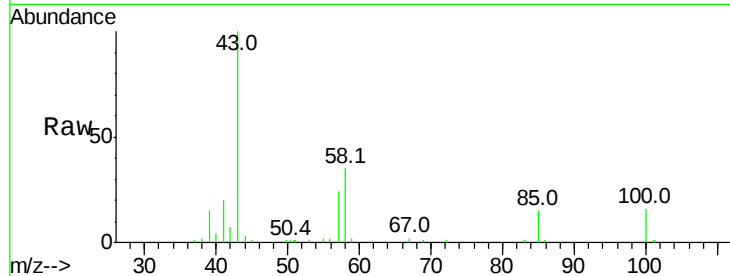




#43
4-Methyl-2-pentanone
Concen: 5.086 ug/L
RT: 10.21 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VW013890.D
Acq: 01 Nov 2019 10:36

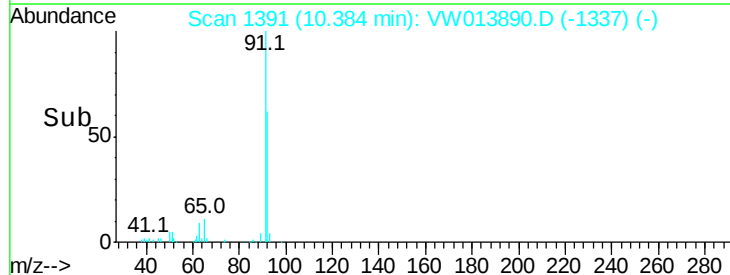
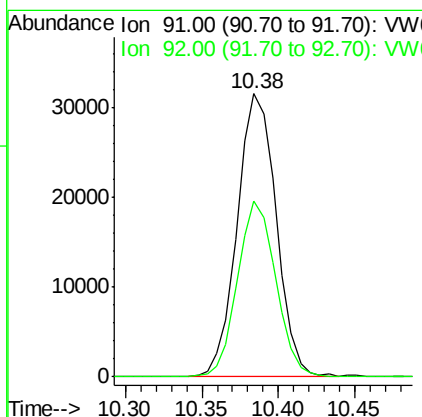
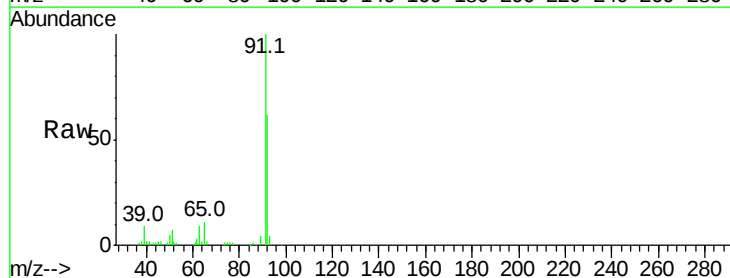
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.505

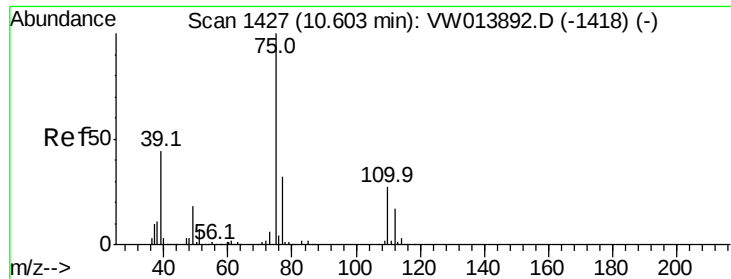
Tgt Ion: 43 Resp: 19525
Ion Ratio Lower Upper
43 100
58 37.6 32.6 48.8
100 16.0 14.1 21.1



#44
Toluene
Concen: 2.576 ug/L
RT: 10.38 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VW013890.D
Acq: 01 Nov 2019 10:36

Tgt Ion: 91 Resp: 56024
Ion Ratio Lower Upper
91 100
92 62.1 40.3 74.9





#45

trans-1,3-Dichloropropene

Concen: 2.501 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Instrument :

MSVOA_W

ClientSampleId :

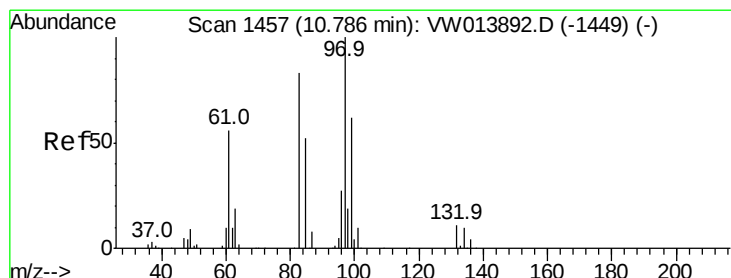
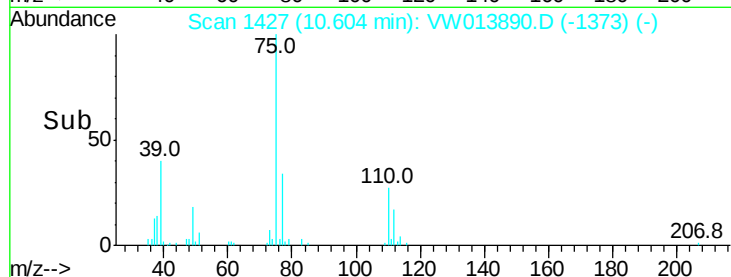
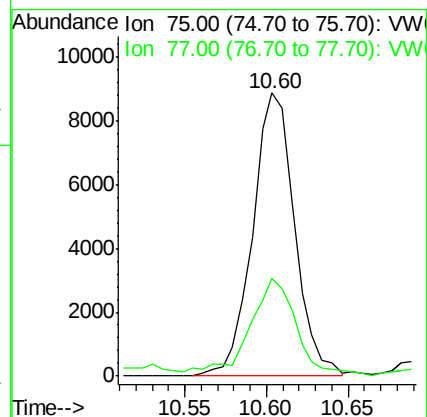
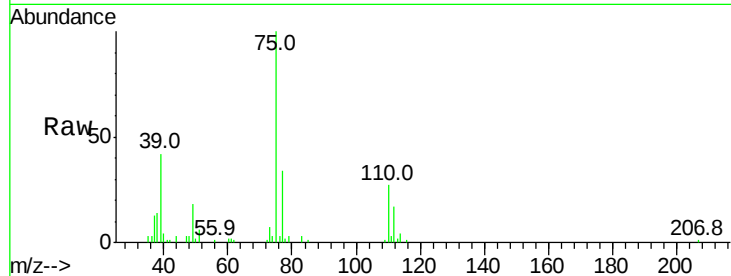
VSTD2.505

Tgt Ion: 75 Resp: 15931

Ion Ratio Lower Upper

75 100

77 34.5 22.5 41.7



#46

1,1,2-Trichloroethane

Concen: 2.658 ug/L

RT: 10.79 min Scan# 1458

Delta R.T. 0.01 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Tgt Ion: 97 Resp: 10661

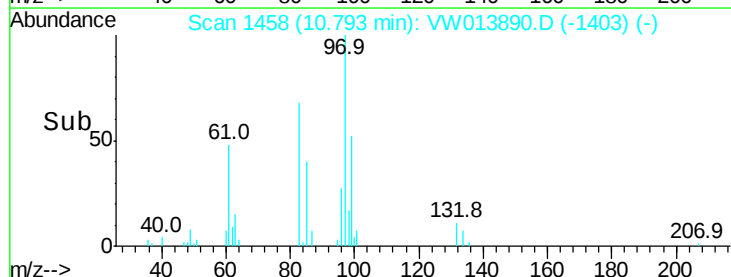
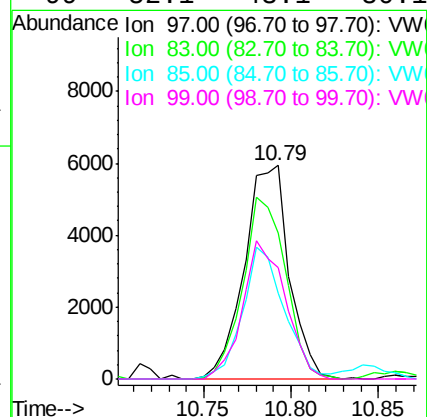
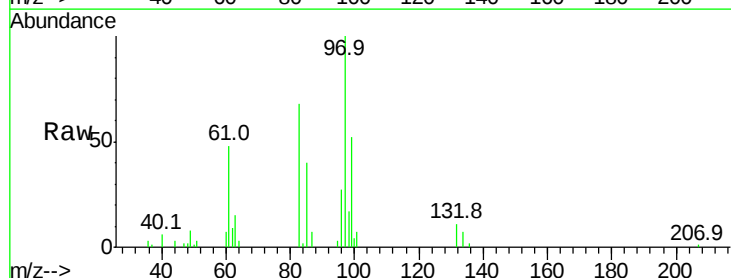
Ion Ratio Lower Upper

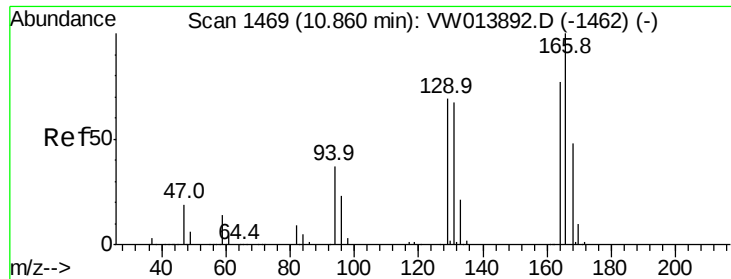
97 100

83 68.4 58.4 108.4

85 39.9 36.2 67.2

99 52.1 43.1 80.1

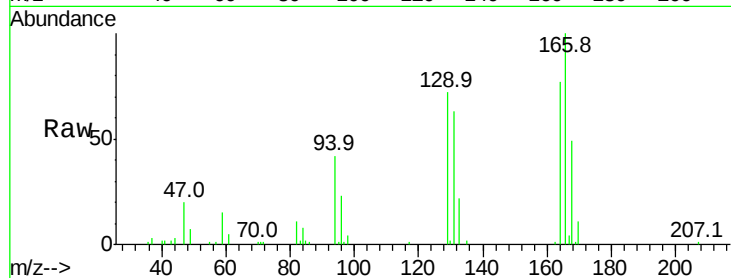




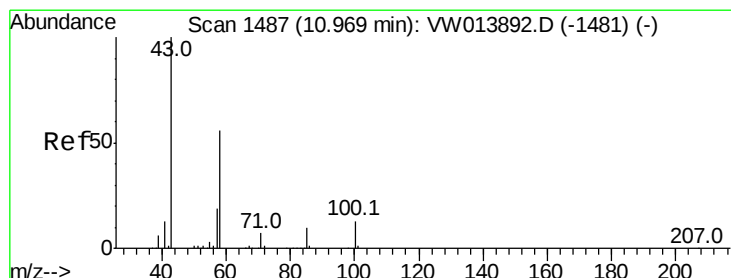
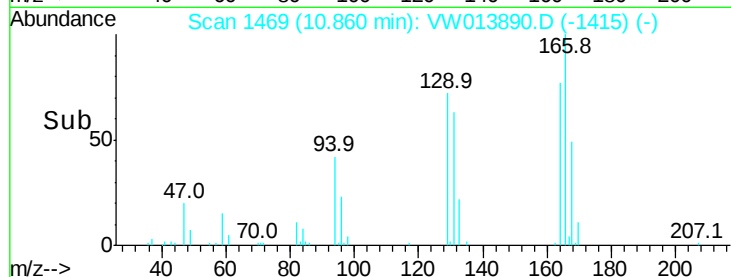
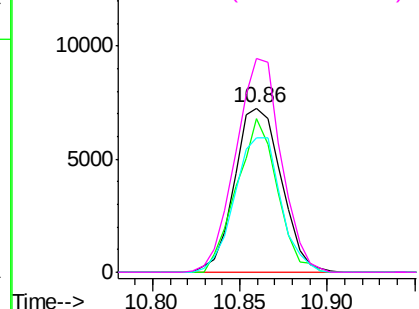
#47
Tetrachloroethene
Concen: 2.841 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW013890.D
Acq: 01 Nov 2019 10:36

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.505

Tgt Ion:164 Resp: 13561
Ion Ratio Lower Upper
164 100
129 94.0 63.0 117.0
131 82.2 60.6 112.6
166 130.2 90.7 168.5

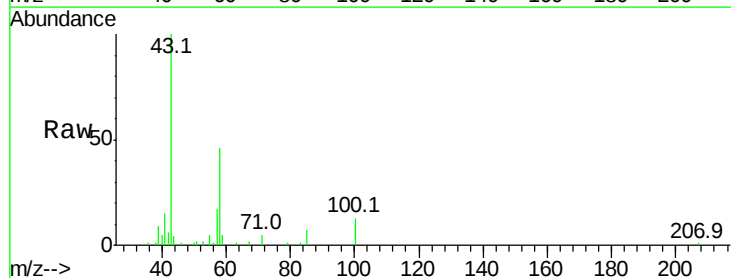


Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

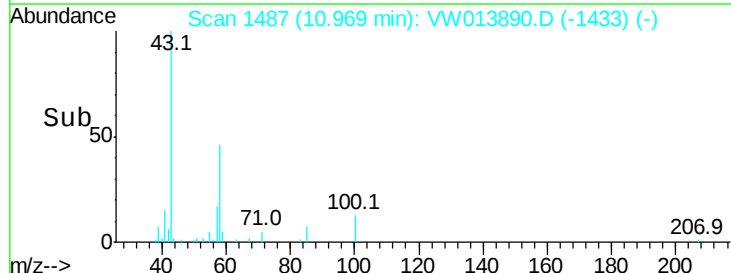
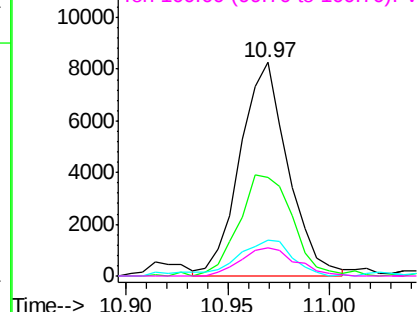


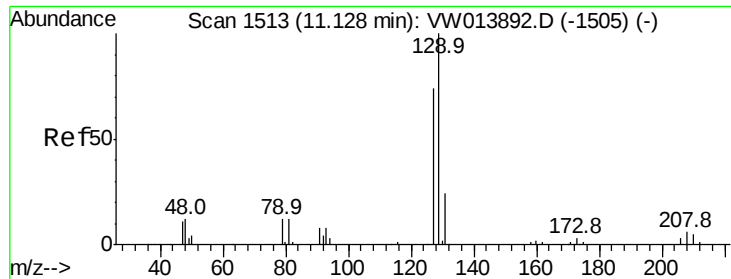
#49
2-Hexanone
Concen: 4.932 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW013890.D
Acq: 01 Nov 2019 10:36

Tgt Ion: 43 Resp: 13549
Ion Ratio Lower Upper
43 100
58 52.2 45.2 67.8
57 18.4 15.4 23.0
100 15.1 10.9 16.3



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





#50

Dibromochloromethane

Concen: 2.412 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Instrument :

MSVOA_W

ClientSampleId :

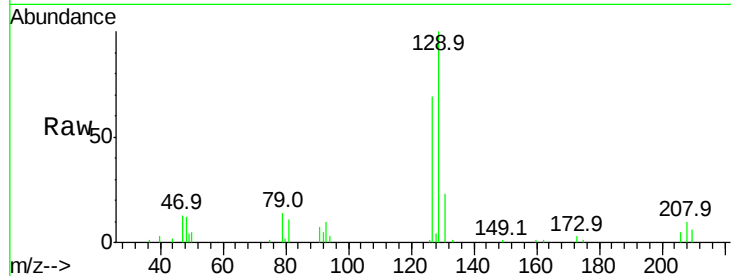
VSTD2.505

Tgt Ion:129 Resp: 11247

Ion Ratio Lower Upper

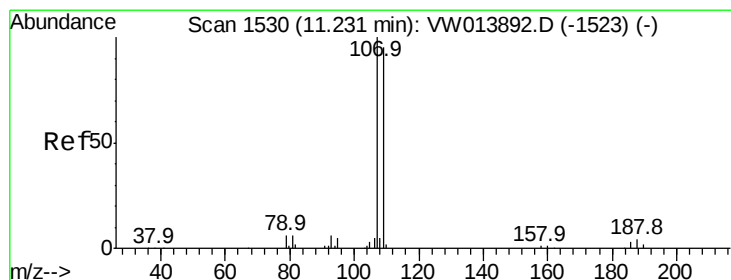
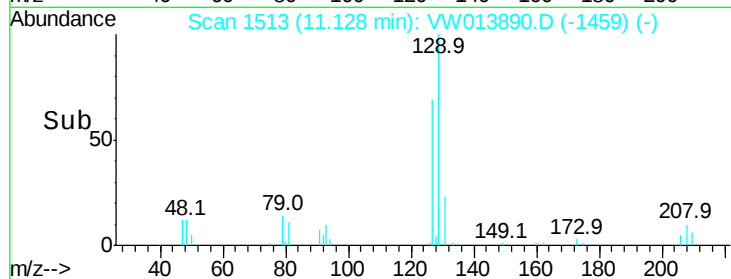
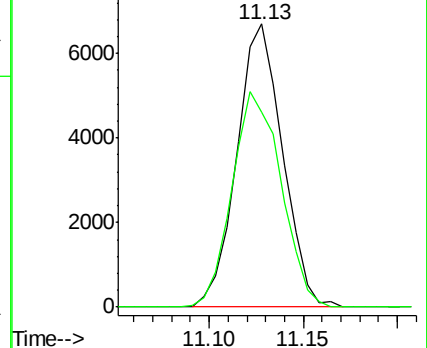
129 100

127 68.9 52.1 96.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#51

1,2-Dibromoethane

Concen: 2.558 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

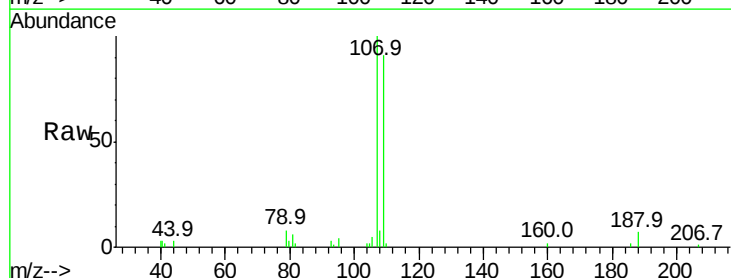
Tgt Ion:107 Resp: 10042

Ion Ratio Lower Upper

107 100

109 91.1 66.3 123.1

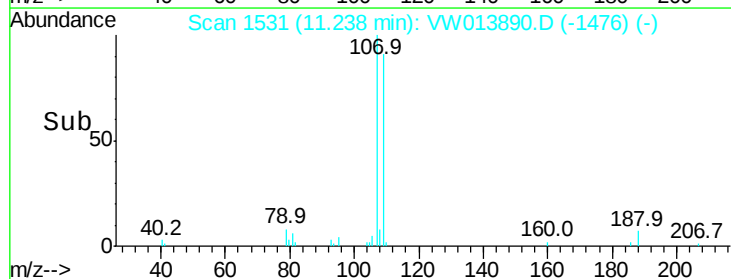
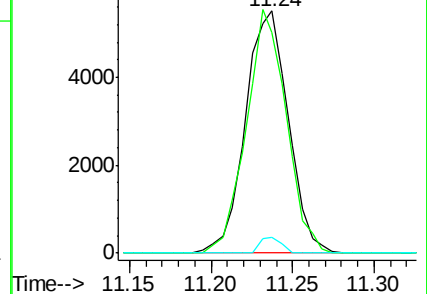
188 6.6 3.5 5.3#

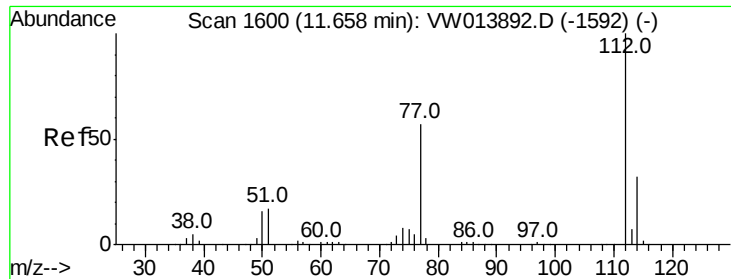


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#52

Chlorobenzene

Concen: 2.640 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.505

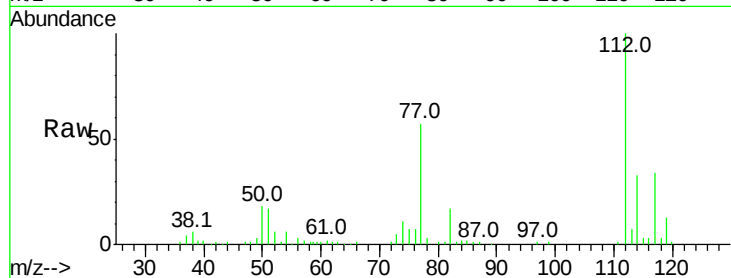
Tgt Ion: 112 Resp: 37233

Ion Ratio Lower Upper

112 100

77 57.2 45.4 68.0

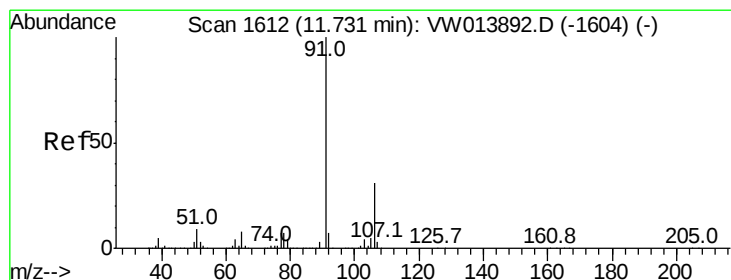
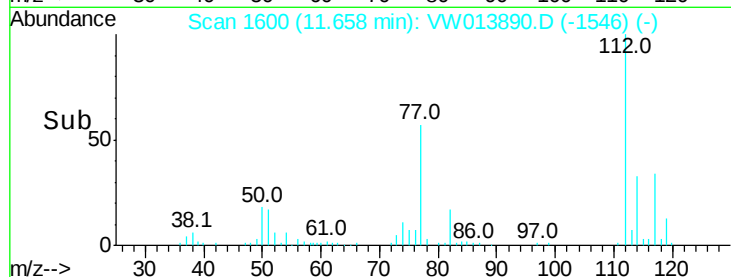
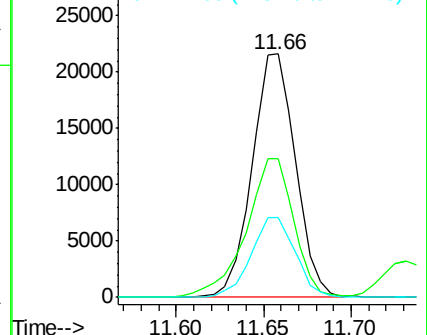
114 32.8 22.6 42.0



Abundance Ion 112.00 (111.70 to 112.70): VW013892.D (-1592) (-)

Ion 77.00 (76.70 to 77.70): VW013892.D (-1592) (-)

Ion 114.00 (113.70 to 114.70): VW013892.D (-1592) (-)



#53

Ethylbenzene

Concen: 2.601 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW013890.D

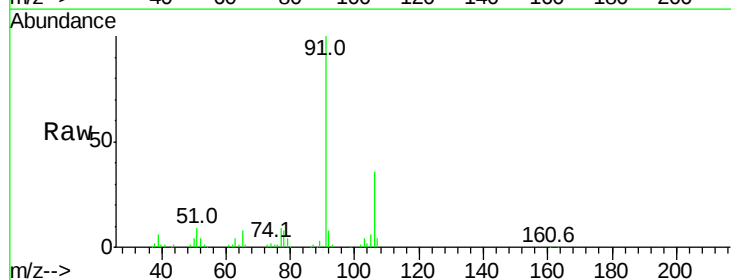
Acq: 01 Nov 2019 10:36

Tgt Ion: 91 Resp: 62442

Ion Ratio Lower Upper

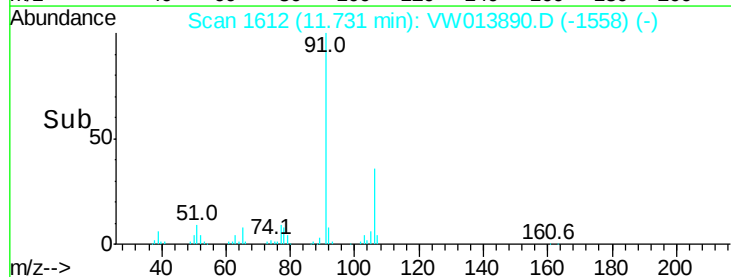
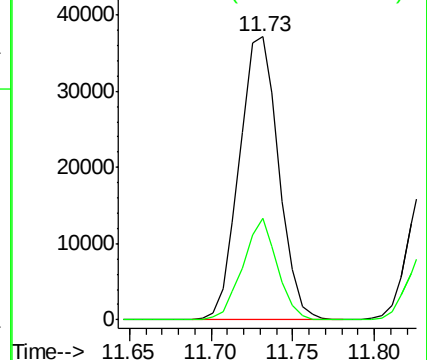
91 100

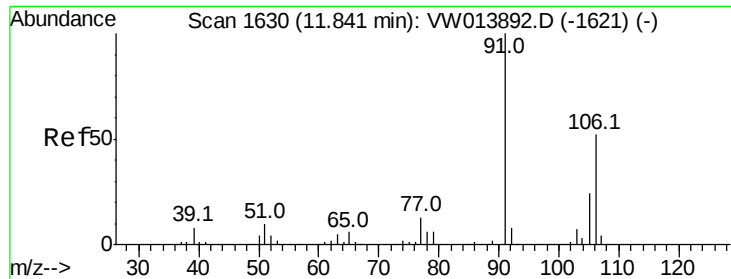
106 35.7 22.0 40.8



Abundance Ion 91.00 (90.70 to 91.70): VW013892.D (-1604) (-)

Ion 106.00 (105.70 to 106.70): VW013892.D (-1604) (-)





#54

m,p-Xylene

Concen: 2.527 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Instrument :

MSVOA_W

ClientSampleId :

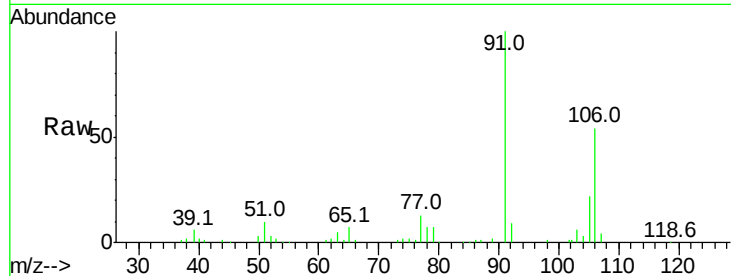
VSTD2.505

Tgt Ion:106 Resp: 23736

Ion Ratio Lower Upper

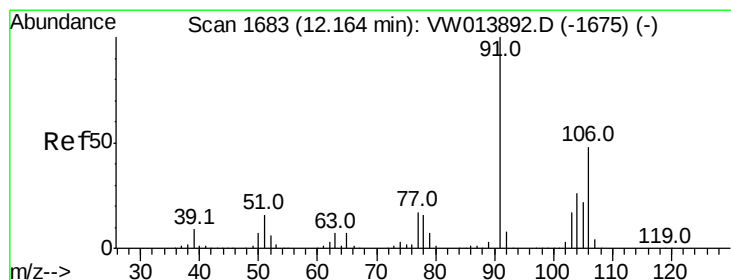
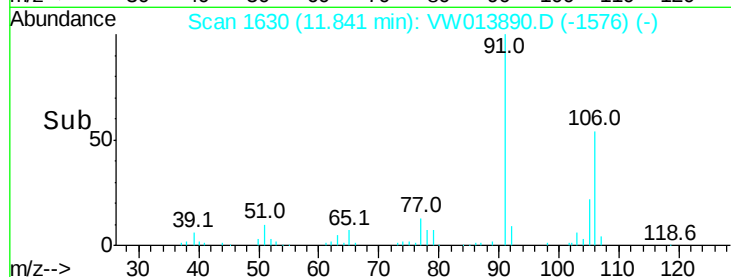
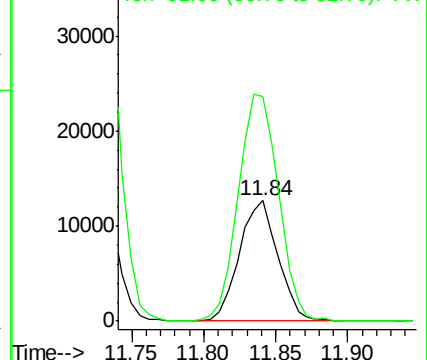
106 100

91 186.1 133.7 248.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 2.503 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW013890.D

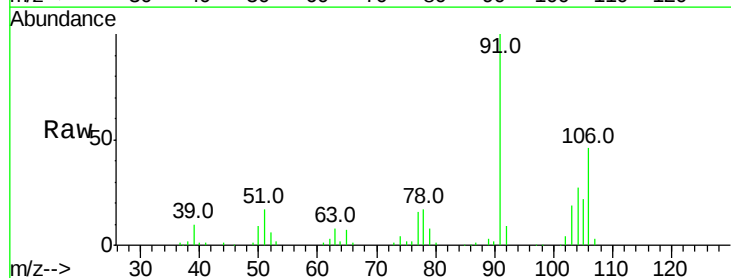
Acq: 01 Nov 2019 10:36

Tgt Ion:106 Resp: 22126

Ion Ratio Lower Upper

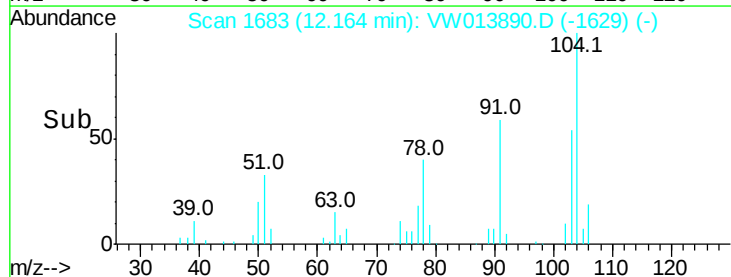
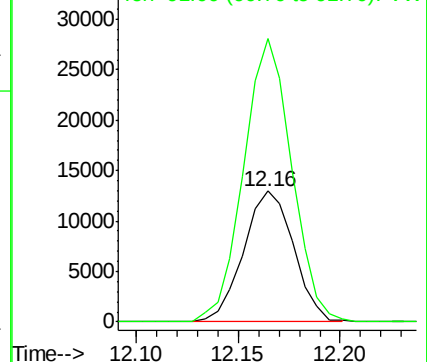
106 100

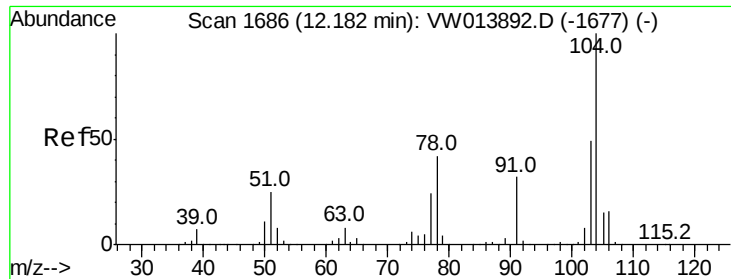
91 216.3 145.6 270.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Styrene

Concen: 2.498 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Instrument :

MSVOA_W

ClientSampleId :

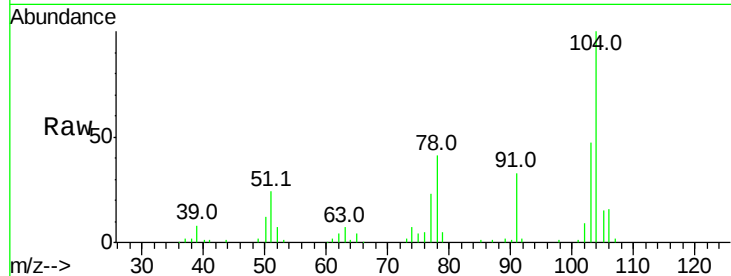
VSTD2.505

Tgt Ion:104 Resp: 37889

Ion Ratio Lower Upper

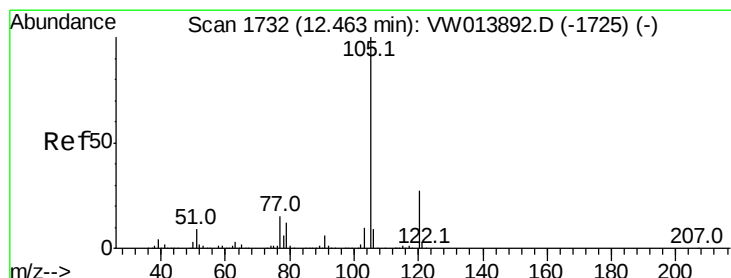
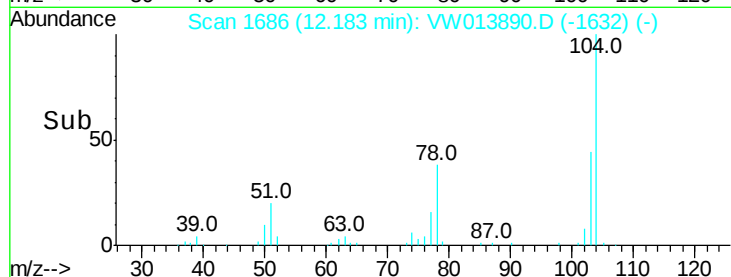
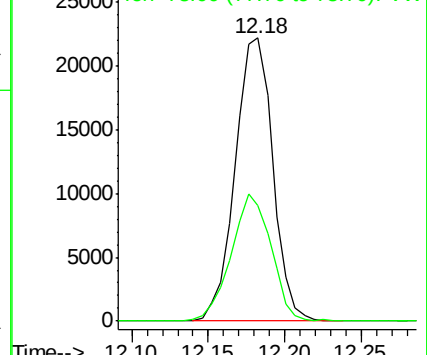
104 100

78 40.7 29.2 54.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



#57

Isopropylbenzene

Concen: 2.518 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

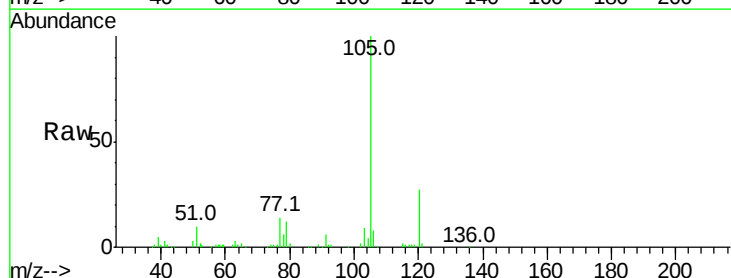
Tgt Ion:105 Resp: 59574

Ion Ratio Lower Upper

105 100

120 27.0 21.5 32.3

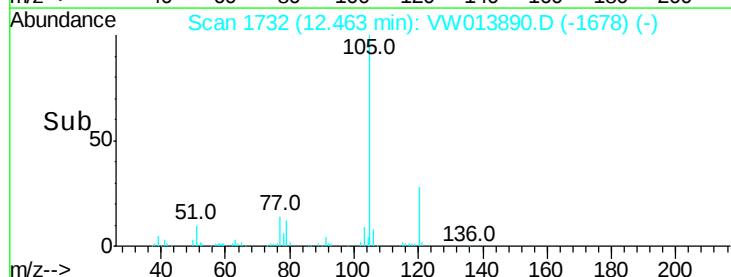
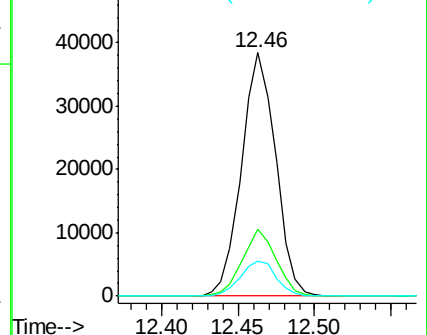
77 15.2 11.7 17.5

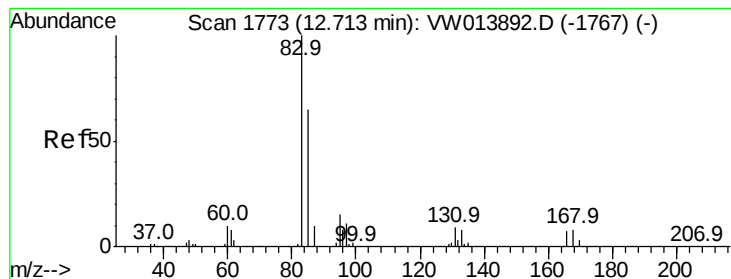


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VW





#58

1,1,2,2-Tetrachloroethane

Concen: 2.590 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.505

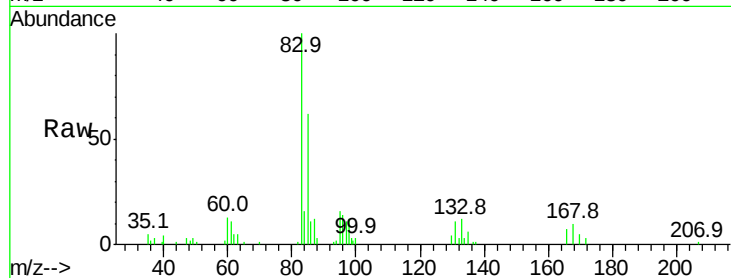
Tgt Ion: 83 Resp: 13044

Ion Ratio Lower Upper

83 100

85 61.7 45.6 84.6

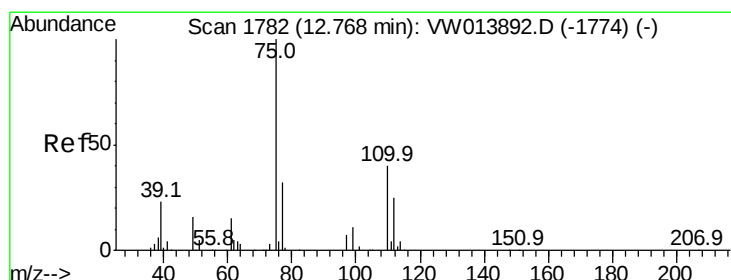
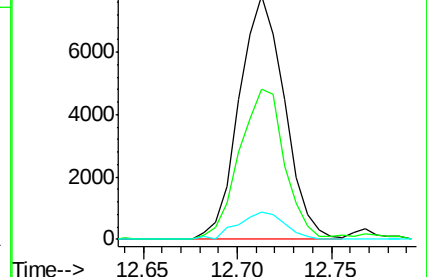
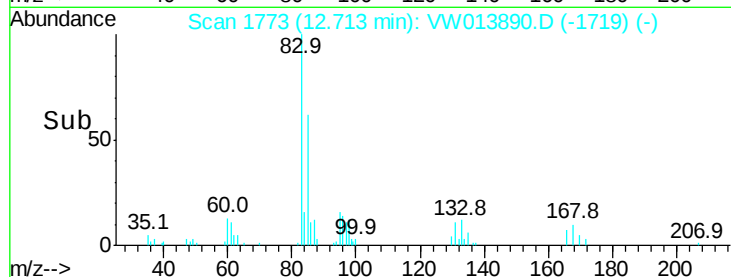
131 11.1 7.8 11.8



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): VW



#59

1,2,3-Trichloropropane

Concen: 2.529 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW013890.D

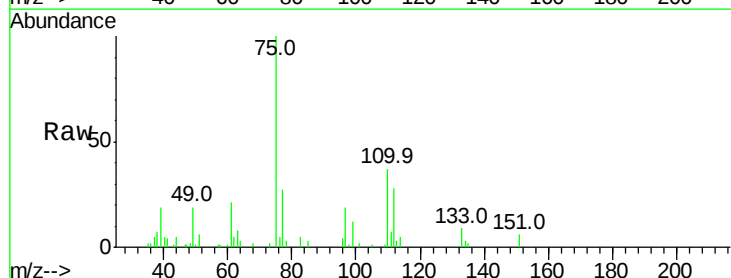
Acq: 01 Nov 2019 10:36

Tgt Ion: 75 Resp: 9706

Ion Ratio Lower Upper

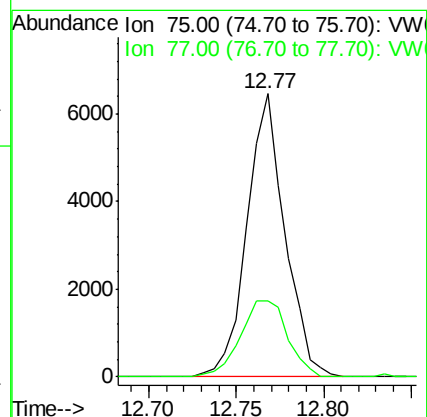
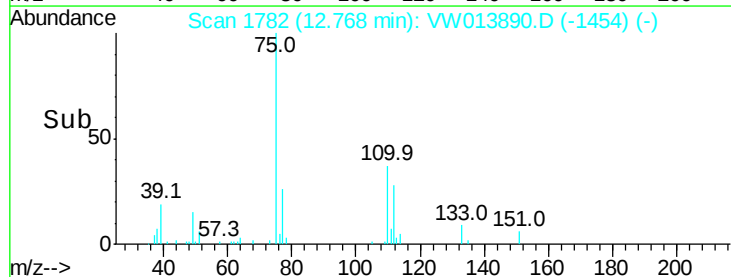
75 100

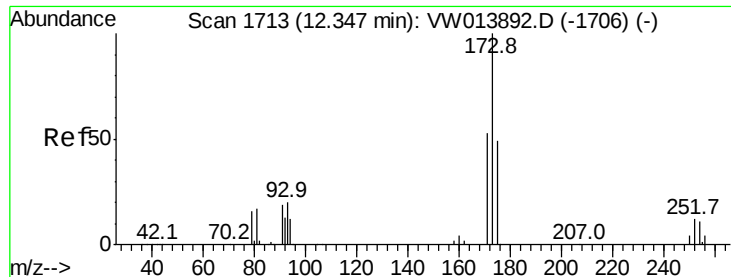
77 33.7 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#62

Bromoform

Concen: 2.547 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.505

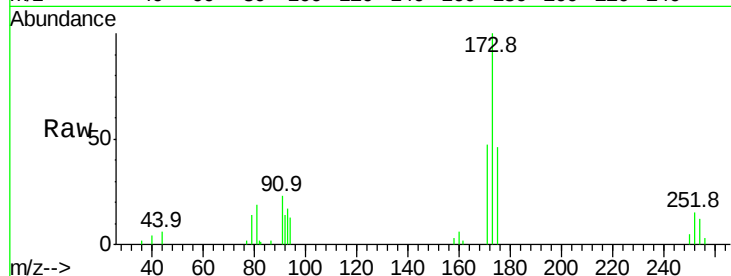
Tgt Ion:173 Resp: 7598

Ion Ratio Lower Upper

173 100

175 48.6 39.7 59.5

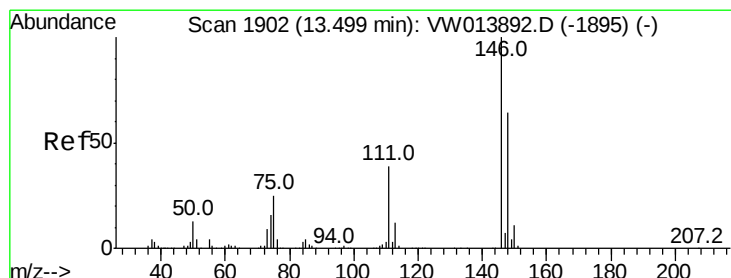
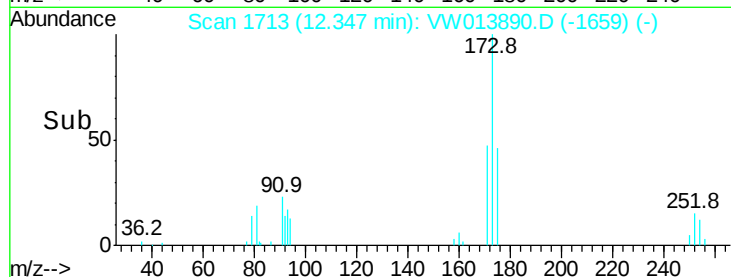
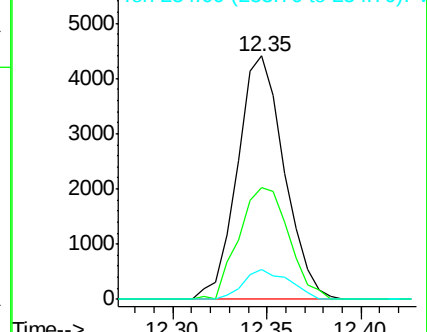
254 11.8 10.0 15.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#63

1,3-Dichlorobenzene

Concen: 2.706 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

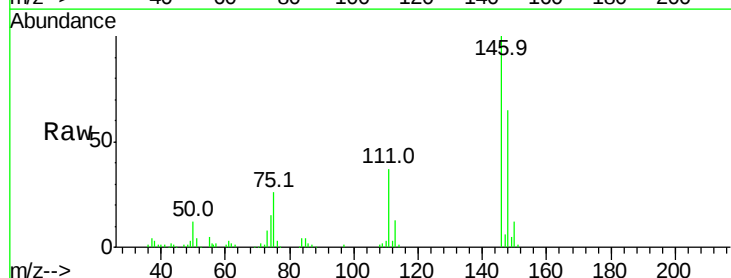
Tgt Ion:146 Resp: 30282

Ion Ratio Lower Upper

146 100

111 37.3 27.4 51.0

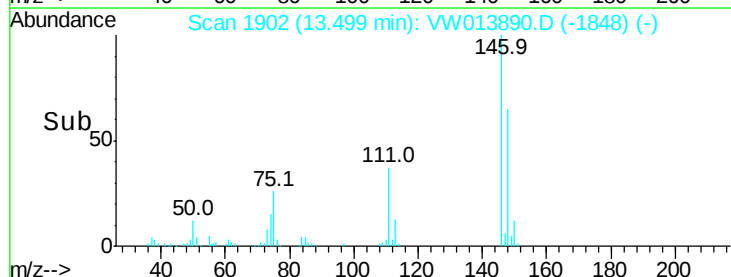
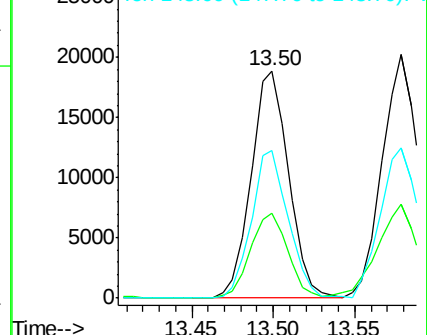
148 65.2 44.6 82.8

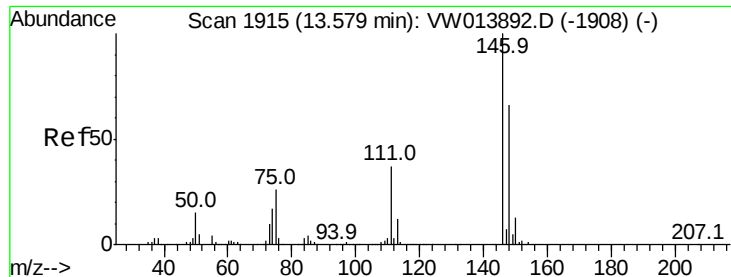


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 2.782 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.505

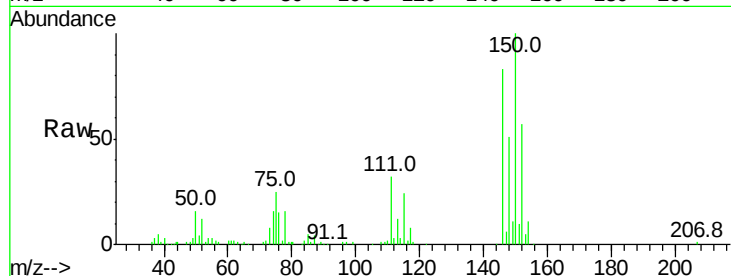
Tgt Ion:146 Resp: 31577

Ion Ratio Lower Upper

146 100

111 38.7 25.9 48.1

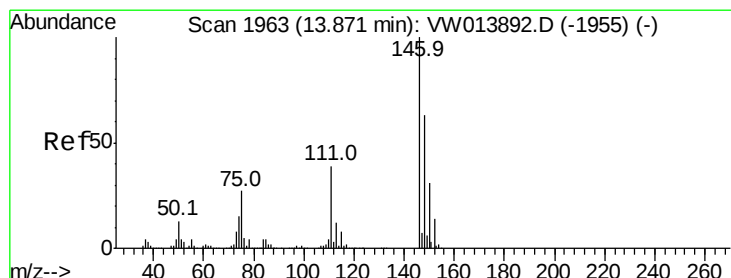
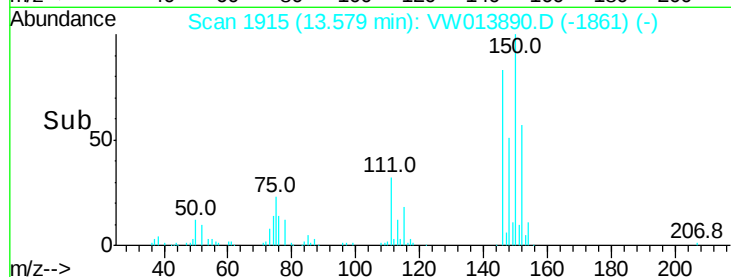
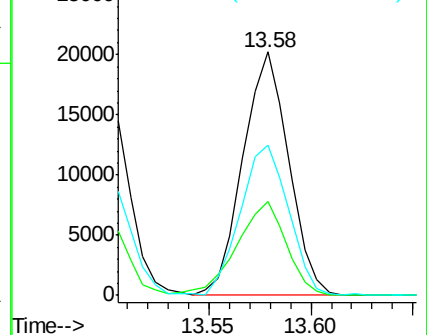
148 61.5 46.3 86.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 2.651 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW013890.D

Acq: 01 Nov 2019 10:36

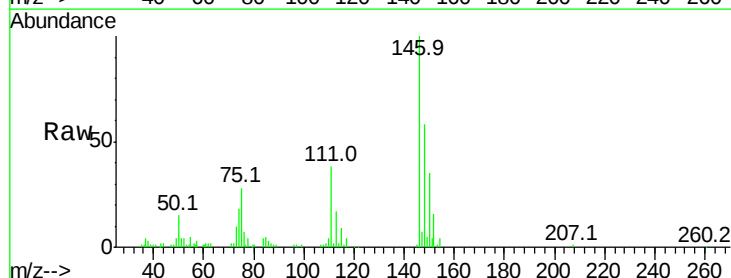
Tgt Ion:146 Resp: 27425

Ion Ratio Lower Upper

146 100

111 37.9 31.6 47.4

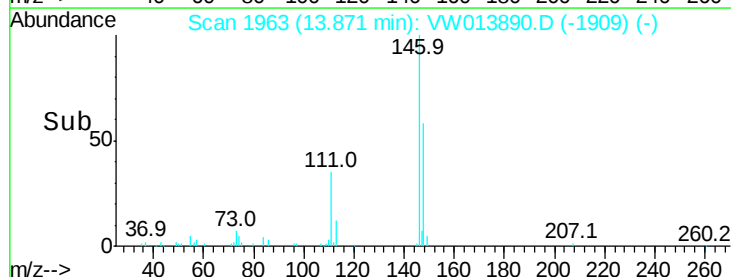
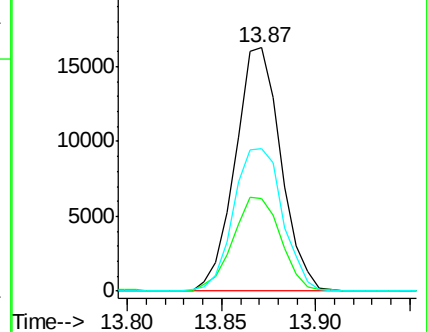
148 58.4 50.7 76.1

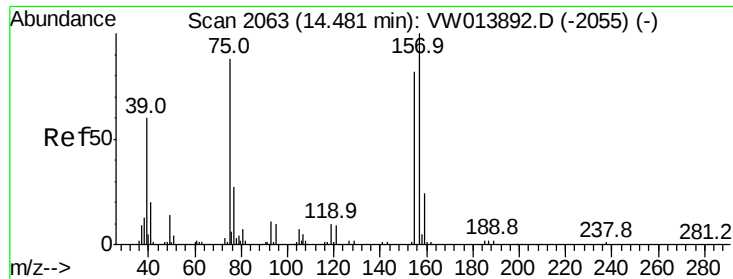


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

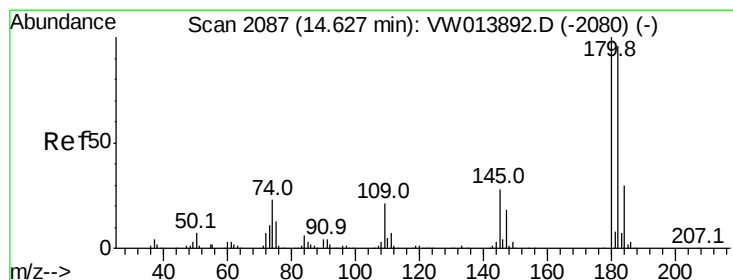
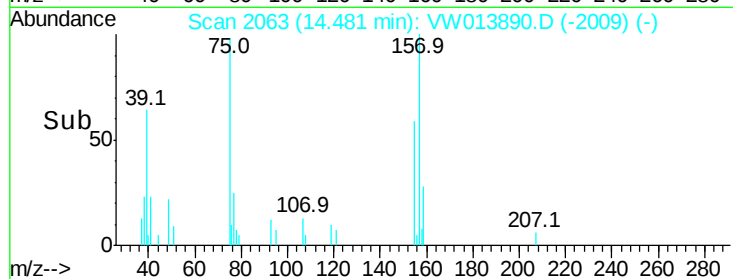
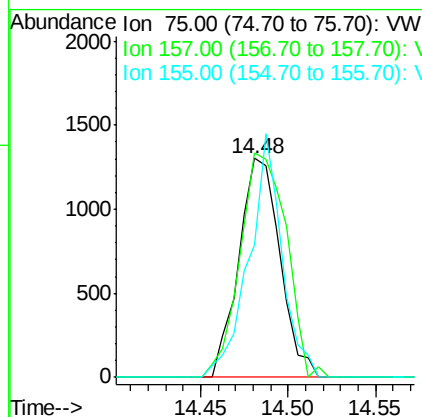
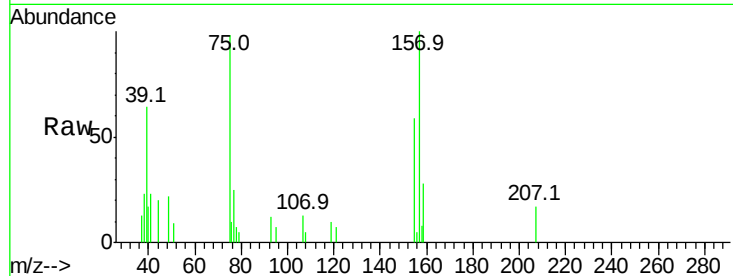




#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.617 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW013890.D
 Acq: 01 Nov 2019 10:36

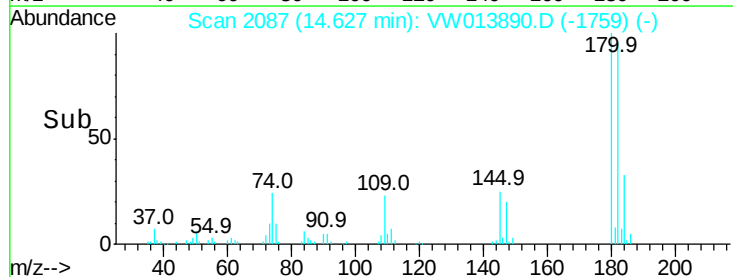
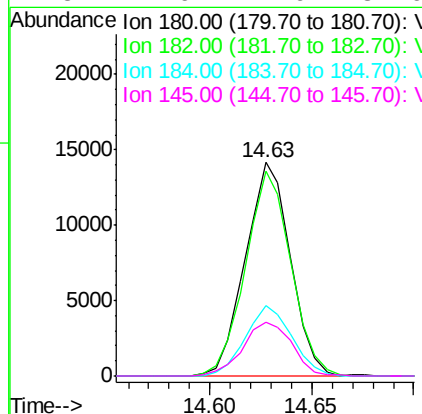
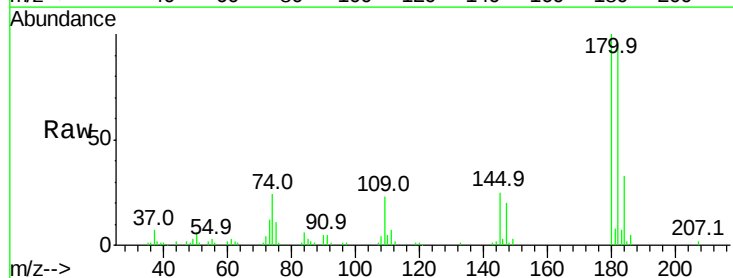
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.505

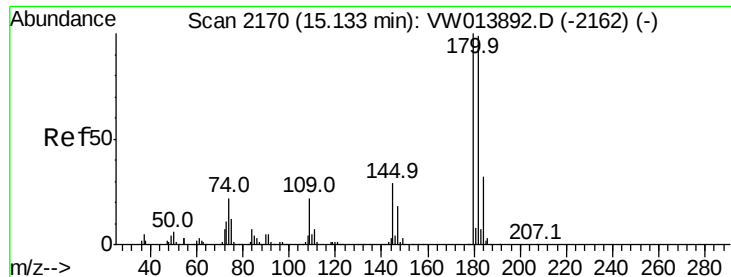
Tgt Ion: 75 Resp: 2139
 Ion Ratio Lower Upper
 75 100
 157 102.2 91.0 136.6
 155 60.4 74.7 112.1#



#67
 1,3,5-Trichlorobenzene
 Concen: 2.519 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW013890.D
 Acq: 01 Nov 2019 10:36

Tgt Ion: 180 Resp: 21686
 Ion Ratio Lower Upper
 180 100
 182 96.5 76.8 115.2
 184 33.7 23.8 35.8
 145 27.6 21.9 32.9

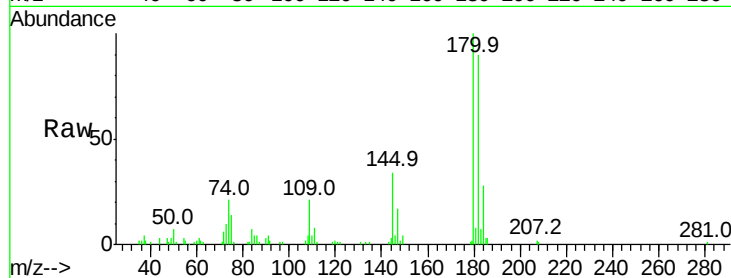




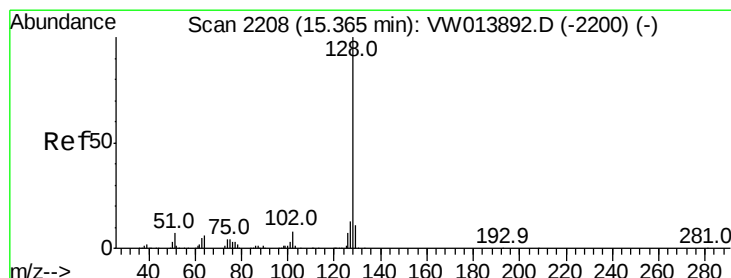
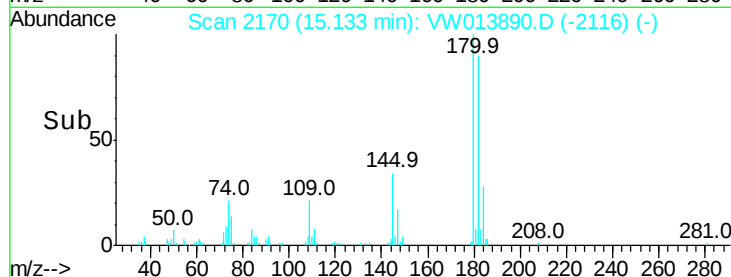
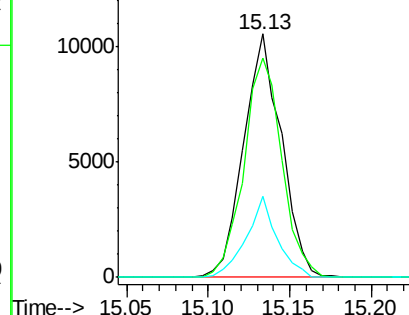
#68
 1,2,4-trichlorobenzene
 Concen: 2.465 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW013890.D
 Acq: 01 Nov 2019 10:36

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.505

Tgt Ion:180 Resp: 17024
 Ion Ratio Lower Upper
 180 100
 182 90.6 78.9 118.3
 145 27.5 22.7 34.1

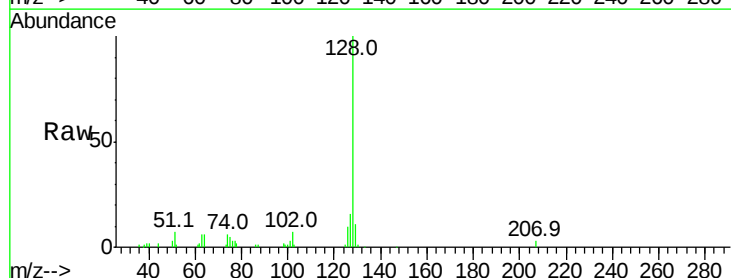


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

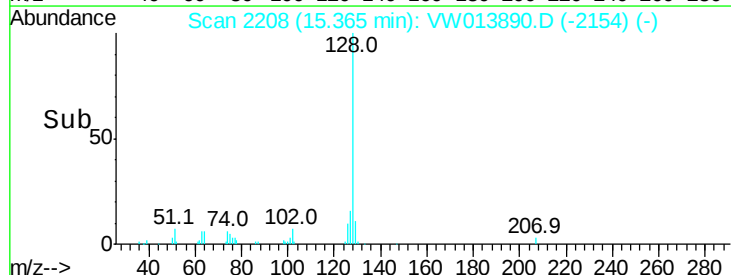
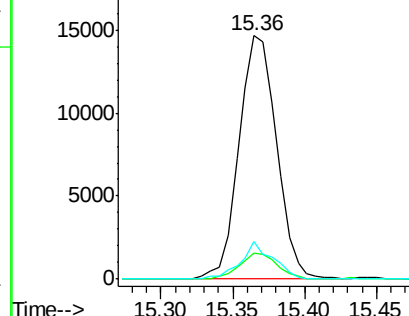


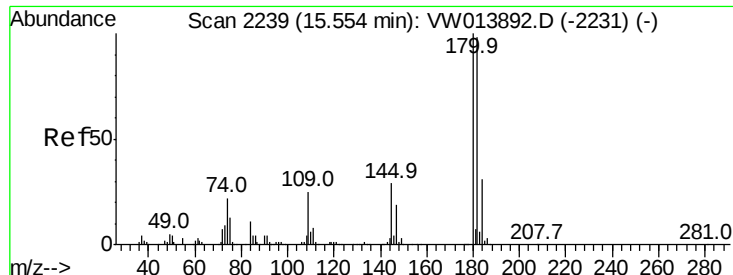
#69
 Naphthalene
 Concen: 2.006 ug/L
 RT: 15.36 min Scan# 2208
 Delta R.T. 0.00 min
 Lab File: VW013890.D
 Acq: 01 Nov 2019 10:36

Tgt Ion:128 Resp: 26642
 Ion Ratio Lower Upper
 128 100
 129 10.7 8.8 13.2
 127 13.4 10.6 16.0



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

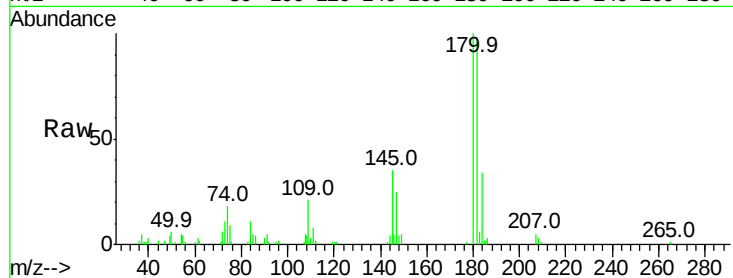




#70
 1,2,3-Trichlorobenzene
 Concen: 2.413 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.01 min
 Lab File: VW013890.D
 Acq: 01 Nov 2019 10:36

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.505

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.8	77.0	115.6
145	30.7	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

