

Data File : VW014476.D
Acq On : 27 Dec 2019 19:01
Operator : SY/VA
Sample : VSTD005
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD00503

Quant Time: Dec 27 20:33:15 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 27 20:30:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1212257	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1086103	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	513072	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	87918	4.79	ug/L	0.00
7) Chloroethane-d5	2.88	69	60500	4.43	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.02	63	152536	4.70	ug/L	0.00
20) 2-Butanone-d5	7.08	46	34052	7.12	ug/L	0.00
24) Chloroform-d	7.64	84	128759	4.17	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	65529	4.05	ug/L	0.00
29) Benzene-d6	8.27	84	265725	4.17	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	76809	3.92	ug/L	0.00
37) Toluene-d8	10.32	98	230681	4.01	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	30536	3.72	ug/L	0.00
39) 2-Hexanone-d5	10.92	63	23257	5.97	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	55562	3.48	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	73423	3.74	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	52884	4.587 ug/L	95
3) Chloromethane	2.21	50	66572	5.743 ug/L	99
5) Vinyl chloride	2.35	62	91875	5.353 ug/L	98
6) Bromomethane	2.77	94	53030	5.009 ug/L	97
8) Chloroethane	2.92	64	49088	5.007 ug/L	99
9) Trichlorofluoromethane	3.25	101	43199	5.085 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	80202	5.016 ug/L	98
12) 1,1-Dichloroethene	4.04	96	77453	4.785 ug/L	92
13) Acetone	4.12	43	62438	13.538 ug/L	99
14) Carbon disulfide	4.38	76	241018	4.854 ug/L	98
16) Methylene chloride	4.91	84	108724	5.851 ug/L	99
17) Methyl tert-butyl Ether	5.42	73	97185	4.552 ug/L	98
18) trans-1,2-Dichloroethene	5.42	96	81355	4.693 ug/L	99
19) 1,1-Dichloroethane	6.21	63	149265	4.792 ug/L	99
21) 2-Butanone	7.17	43	60748	9.811 ug/L	97
22) cis-1,2-Dichloroethene	7.17	96	84214	4.565 ug/L	98
23) Bromochloromethane	7.51	128	37676	4.440 ug/L	90
25) Chloroform	7.67	83	144922	4.788 ug/L	99
27) 1,2-Dichloroethane	8.40	62	92518	4.668 ug/L	96
30) Cyclohexane	7.95	56	133070	4.909 ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	114983	5.271 ug/L	99
32) Carbon tetrachloride	8.07	117	105995	5.121 ug/L	100
34) Benzene	8.32	78	336821	4.898 ug/L	100
35) Trichloroethene	9.09	95	85207	4.843 ug/L	99
36) Methylcyclohexane	9.33	83	145209	4.911 ug/L	98
40) 1,2-Dichloropropane	9.37	63	85027	4.813 ug/L	98
41) Bromodichloromethane	9.64	83	99012	4.612 ug/L	95
42) cis-1,3-Dichloropropene	10.07	75	117833	4.454 ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	102730	8.818 ug/L	97
44) Toluene	10.38	91	346060	4.800 ug/L	100

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Instrument :
MSVOA_W
ClientSampleId :
VSTD00503

Quant Time: Dec 27 20:33:15 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 27 20:30:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) trans-1,3-Dichloropropene	10.60	75	94739	4.424	ug/L	93
46) 1,1,2-Trichloroethane	10.79	97	59177	4.470	ug/L	97
47) Tetrachloroethene	10.86	164	71708	4.890	ug/L	94
49) 2-Hexanone	10.97	43	66614	8.031	ug/L	96
50) Dibromochloromethane	11.13	129	64862	4.365	ug/L	90
51) 1,2-Dibromoethane	11.23	107	55631	4.436	ug/L	98
52) Chlorobenzene	11.65	112	220420	4.730	ug/L	98
53) Ethylbenzene	11.73	91	372292	4.759	ug/L	98
54) m,p-Xylene	11.83	106	140419	4.666	ug/L	99
55) o-xylene	12.16	106	129665	4.543	ug/L	100
56) Styrene	12.18	104	221766	4.541	ug/L	99
57) Isopropylbenzene	12.46	105	347327	4.687	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	70712	4.303	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	52762	4.321	ug/L	99
62) Bromoform	12.35	173	37460	4.302	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	162587	4.715	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	167891	4.792	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	145424	4.535	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.48	75	10803	4.367	ug/L	99
67) 1,3,5-Trichlorobenzene	14.63	180	118614	4.781	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	80109	4.142	ug/L	99
69) Naphthalene	15.36	128	121593	3.343	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	76395	4.212	ug/L	97

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

Data File : VW014476.D

Acq On : 27 Dec 2019 19:01

Operator : SY/VA

Sample : VSTD005

Misc : 5.00G/10ML/MSVOA W/SOIL

```
ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_W
ClientSampleId :
VSTD00503

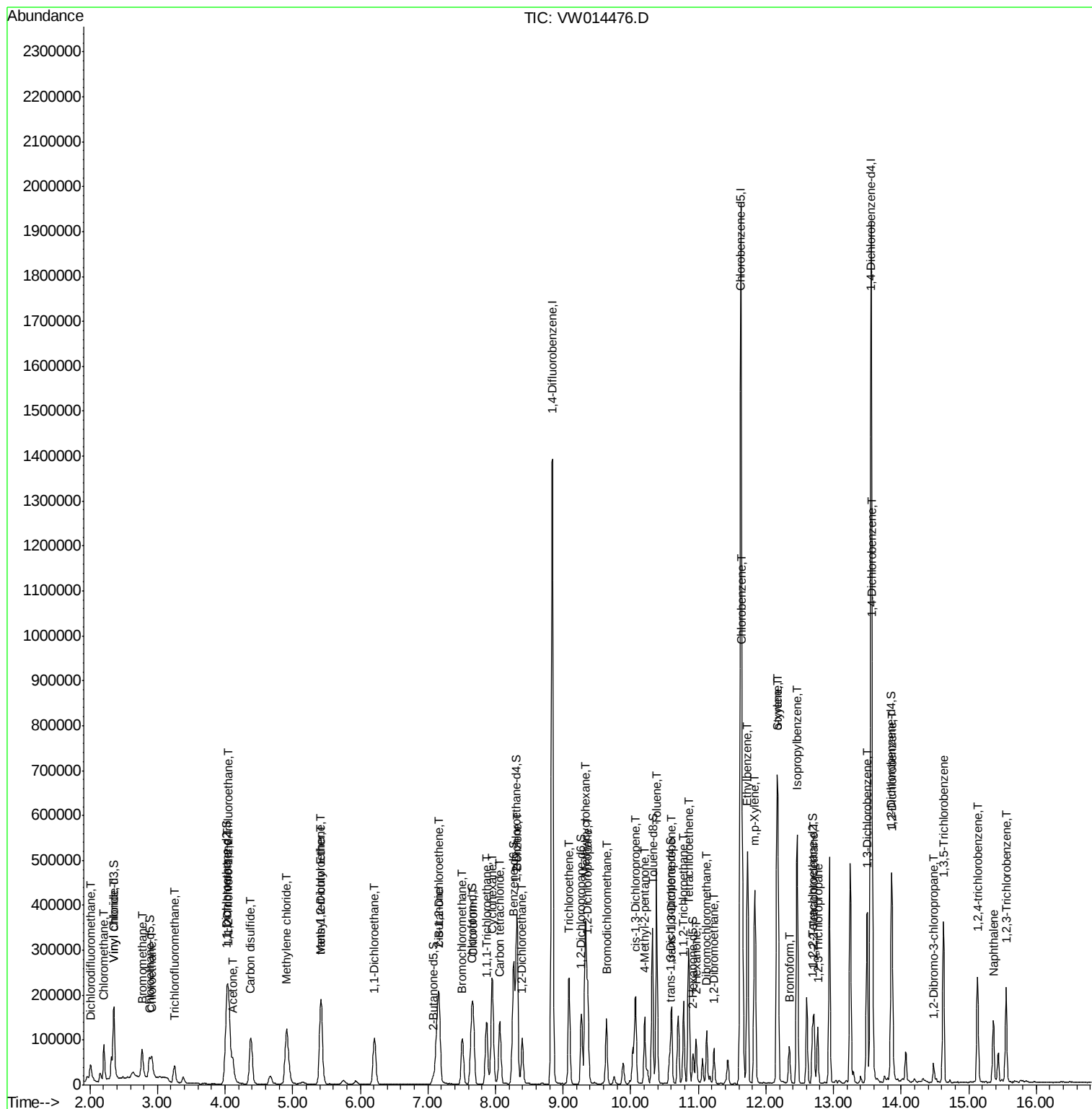
Quant Time: Dec 27 20:33:15 2019

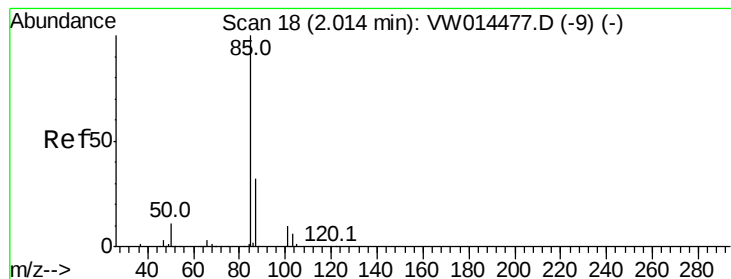
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M

Quant Title : VOC Analysis

QLast Update : Fri Dec 27 20:30:18 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.587 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

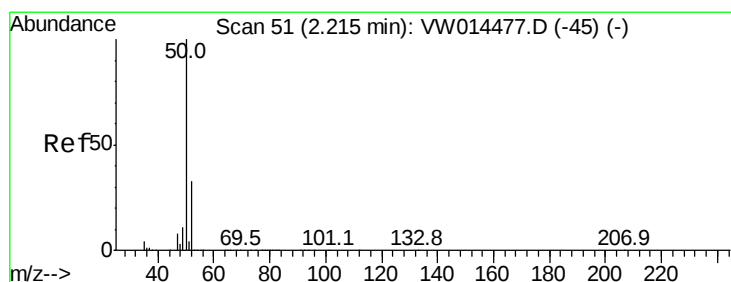
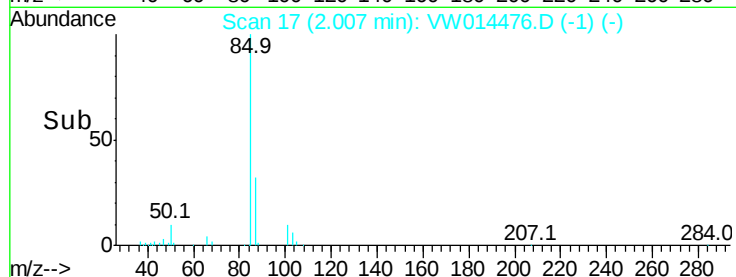
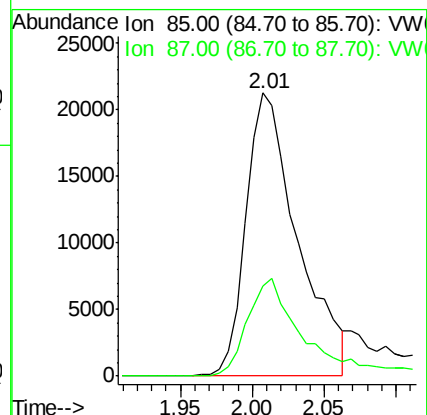
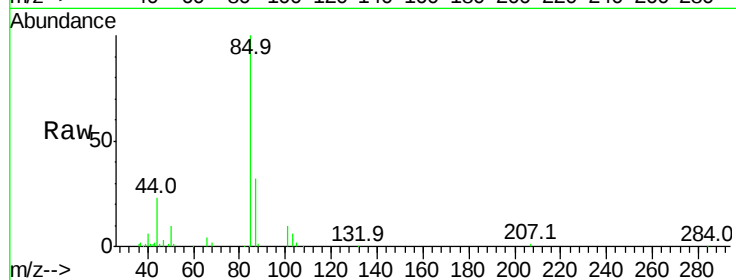
VSTD00503

Tgt Ion: 85 Resp: 52884

Ion Ratio Lower Upper

85 100

87 33.5 21.5 39.9



#3

Chloromethane

Concen: 5.743 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW014476.D

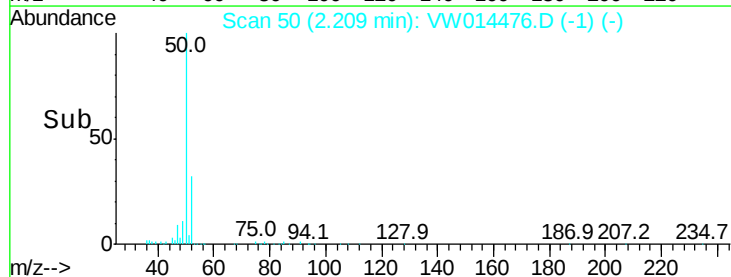
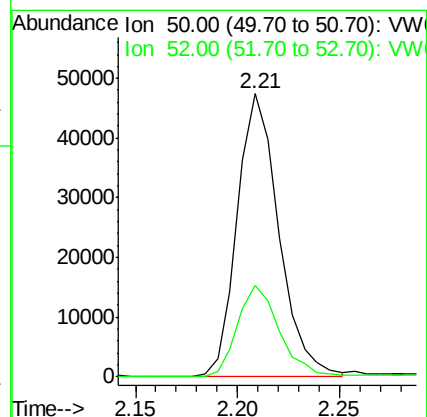
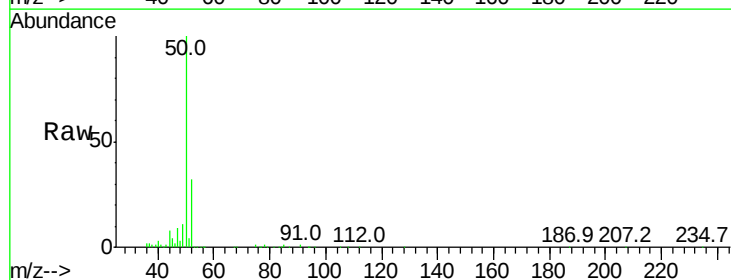
Acq: 27 Dec 2019 19:01

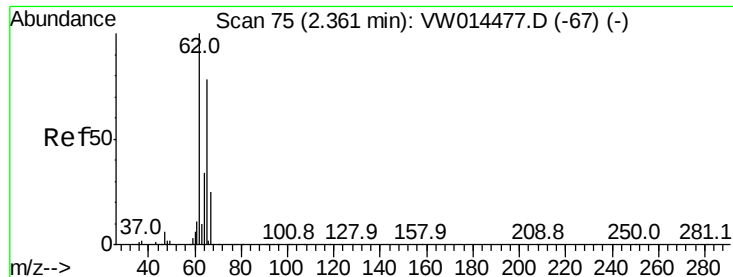
Tgt Ion: 50 Resp: 66572

Ion Ratio Lower Upper

50 100

52 32.3 23.0 42.8





#5

Vinyl chloride

Concen: 5.353 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

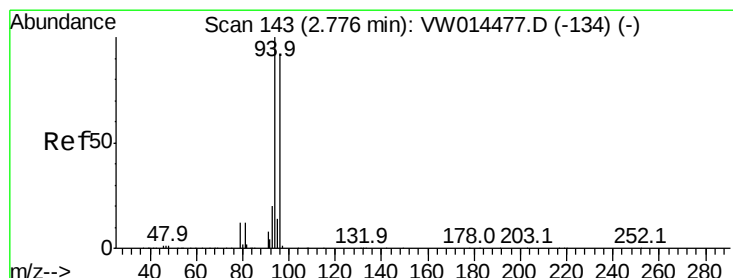
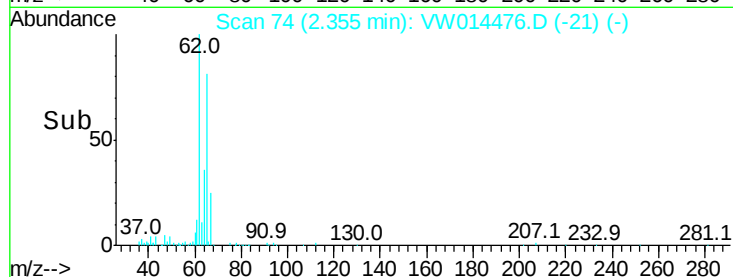
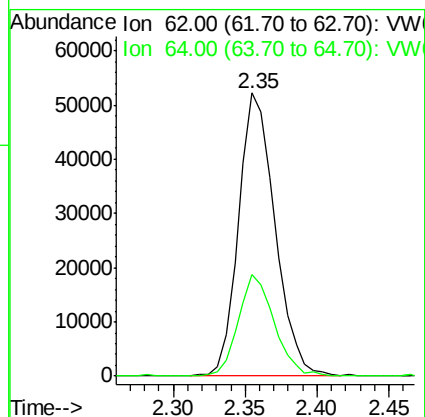
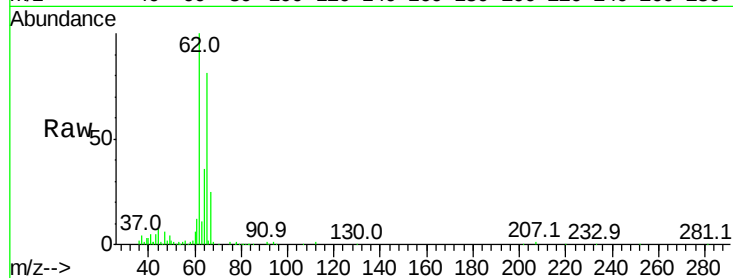
VSTD00503

Tgt Ion: 62 Resp: 91875

Ion Ratio Lower Upper

62 100

64 35.8 24.1 44.8



#6

Bromomethane

Concen: 5.009 ug/L

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW014476.D

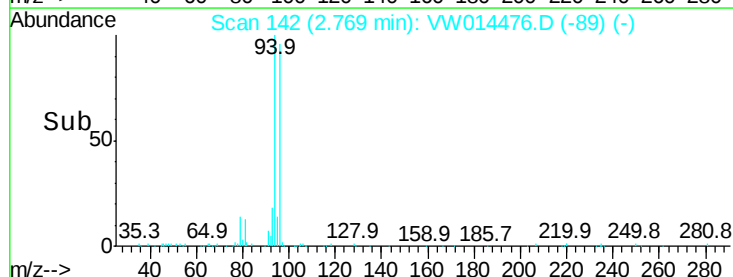
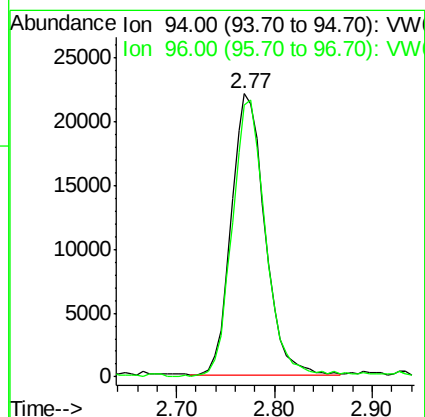
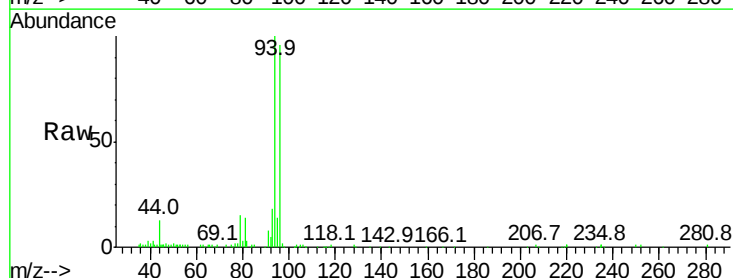
Acq: 27 Dec 2019 19:01

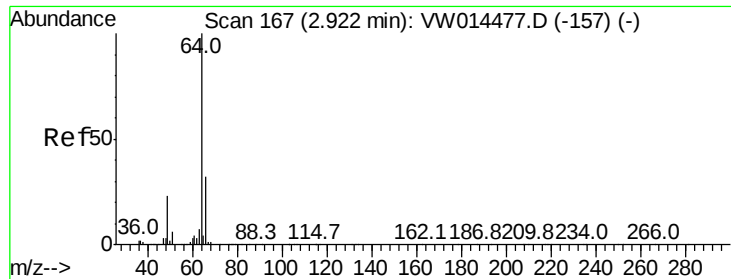
Tgt Ion: 94 Resp: 53030

Ion Ratio Lower Upper

94 100

96 96.8 9.4 178.8

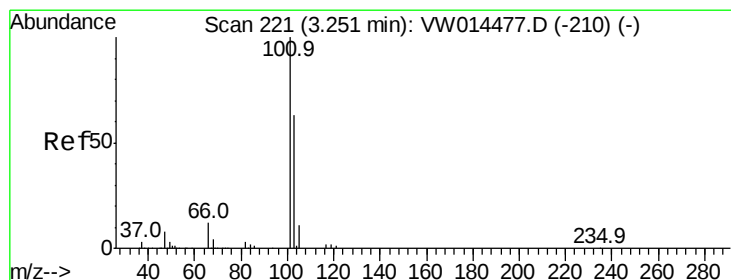
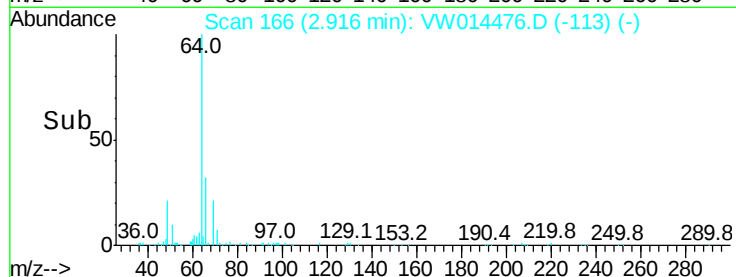
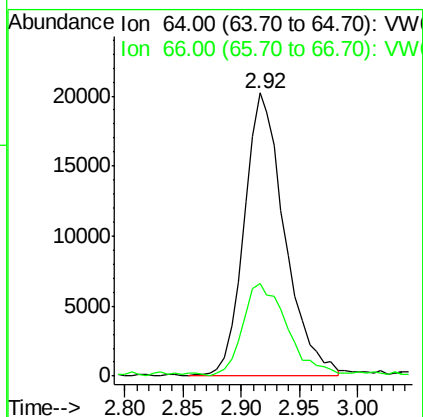
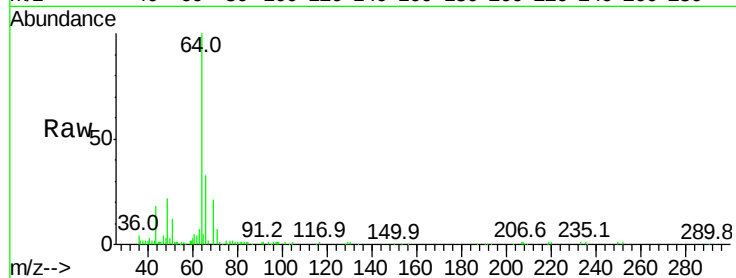




#8
Chloroethane
Concen: 5.007 ug/L
RT: 2.92 min Scan# 166
Delta R.T. -0.01 min
Lab File: VW014476.D
Acq: 27 Dec 2019 19:01

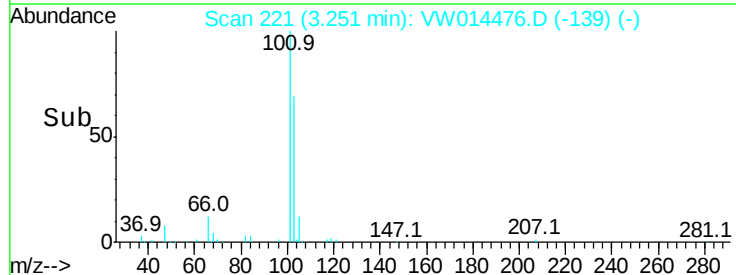
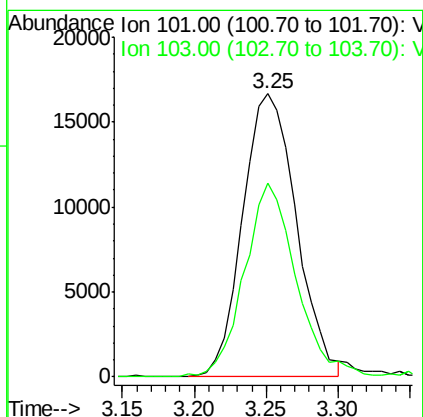
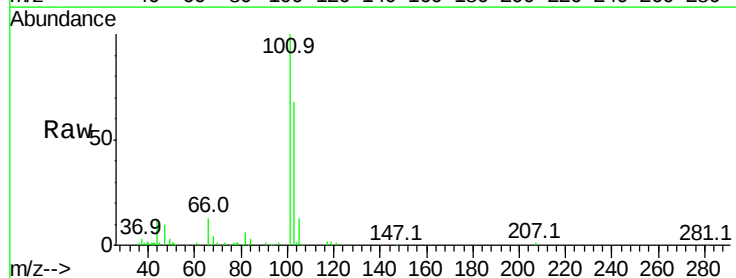
Instrument :
MSVOA_W
ClientSampleId :
VSTD00503

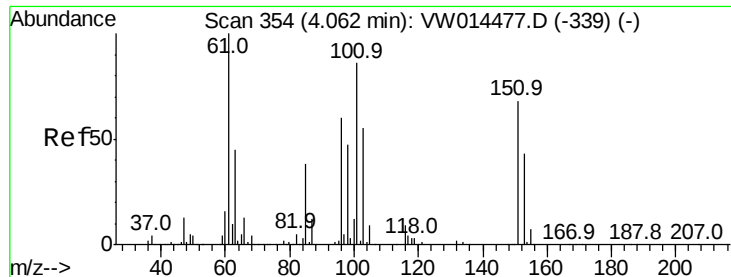
Tgt Ion: 64 Resp: 49088
Ion Ratio Lower Upper
64 100
66 32.8 22.5 41.7



#9
Trichlorofluoromethane
Concen: 5.085 ug/L
RT: 3.25 min Scan# 221
Delta R.T. -0.00 min
Lab File: VW014476.D
Acq: 27 Dec 2019 19:01

Tgt Ion: 101 Resp: 43199
Ion Ratio Lower Upper
101 100
103 66.1 45.5 84.5





#11

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

Concen: 5.016 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

VSTD00503

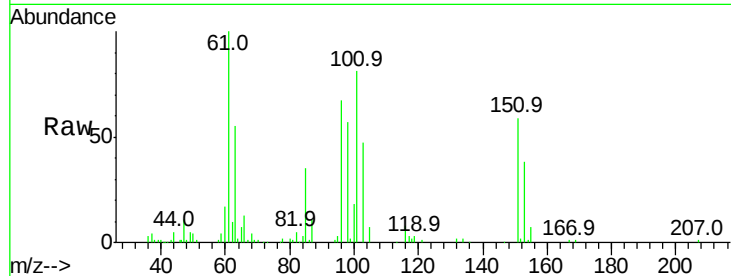
Tgt Ion: 101 Resp: 80202

Ion Ratio Lower Upper

101 100

85 40.2 33.3 49.9

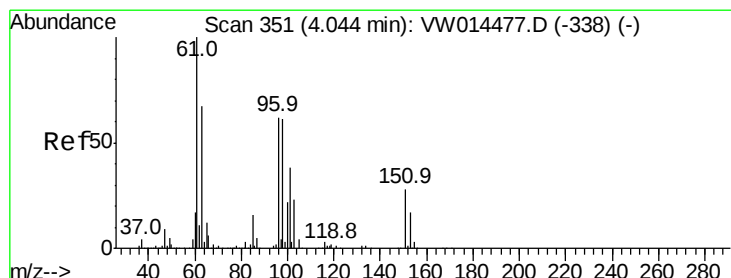
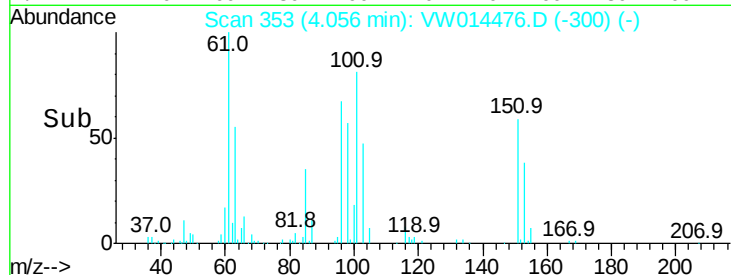
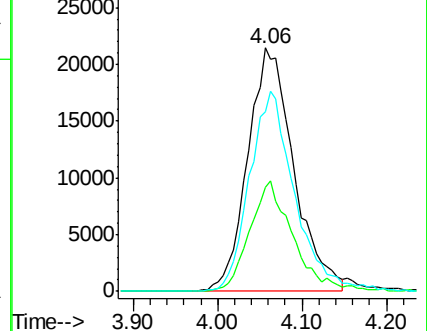
151 79.8 62.5 93.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.785 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

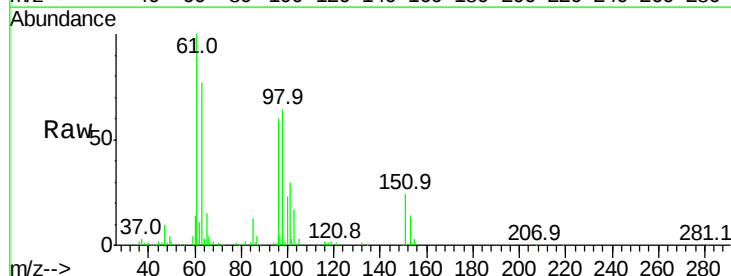
Tgt Ion: 96 Resp: 77453

Ion Ratio Lower Upper

96 100

61 167.8 114.2 212.0

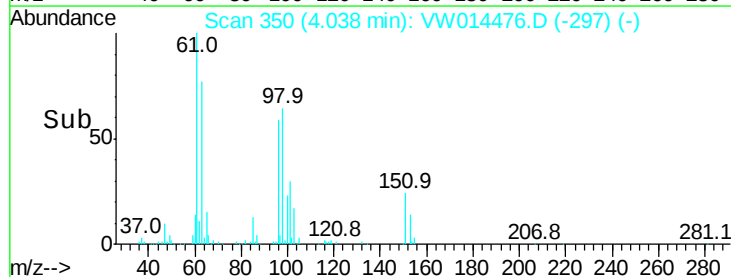
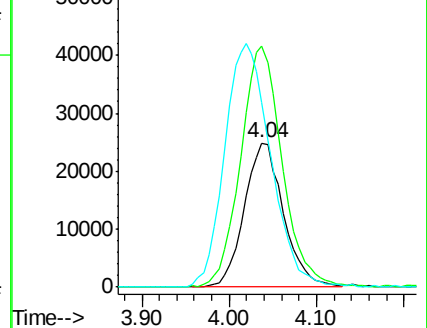
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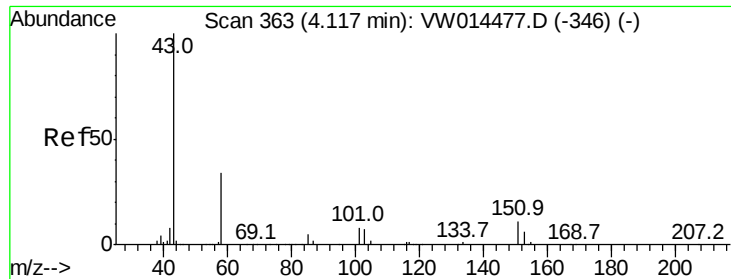


Abundance Ion 96.00 (95.70 to 96.70): VV

Ion 61.00 (60.70 to 61.70): VV

Ion 63.00 (62.70 to 63.70): VV





#13

Acetone

Concen: 13.538 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

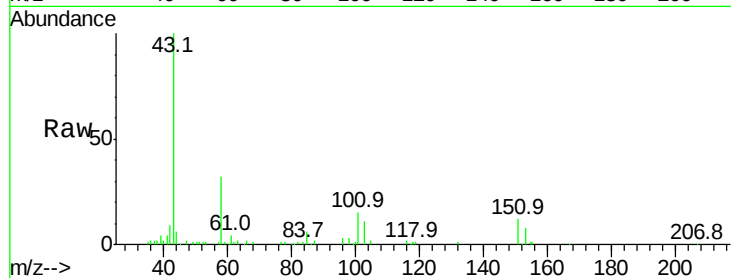
VSTD00503

Tgt Ion: 43 Resp: 62438

Ion Ratio Lower Upper

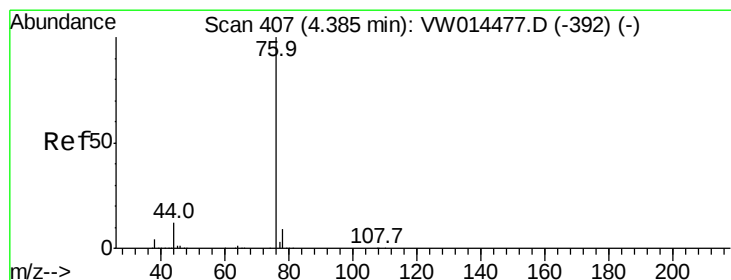
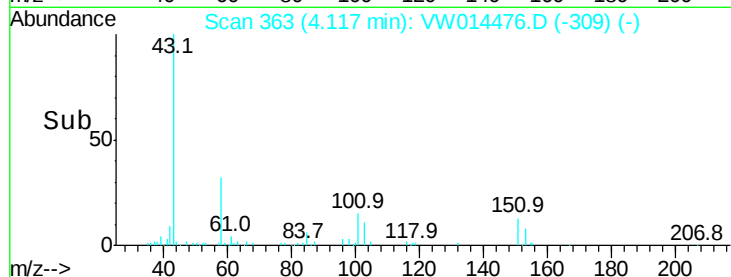
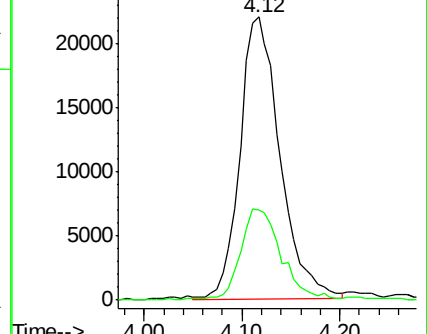
43 100

58 32.3 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 4.854 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW014476.D

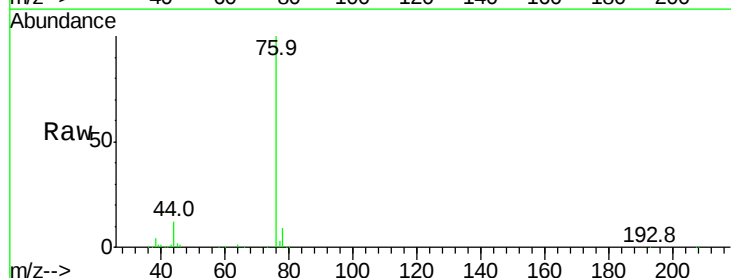
Acq: 27 Dec 2019 19:01

Tgt Ion: 76 Resp: 241018

Ion Ratio Lower Upper

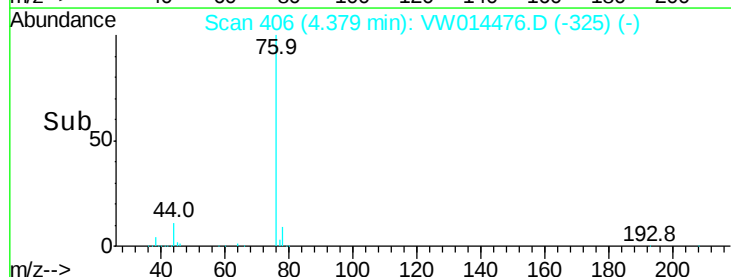
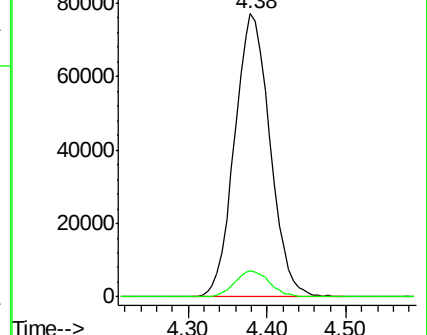
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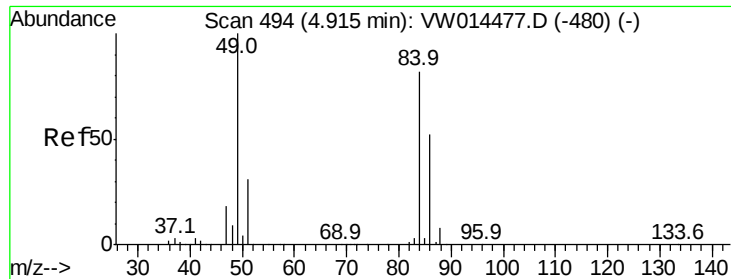
78 9.2 6.9 10.3



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

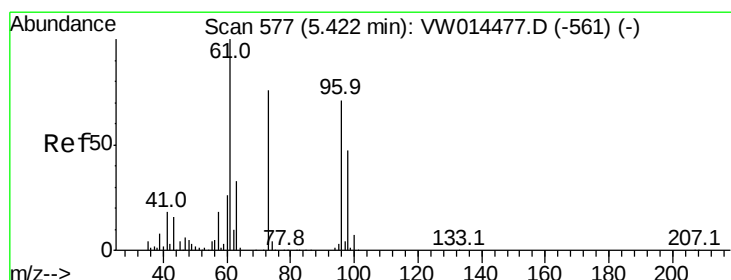
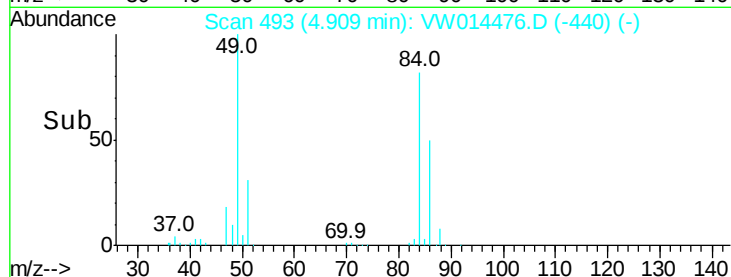
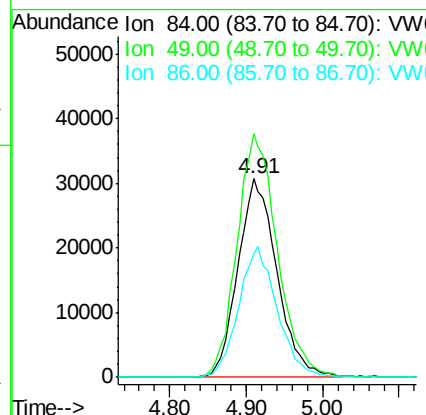
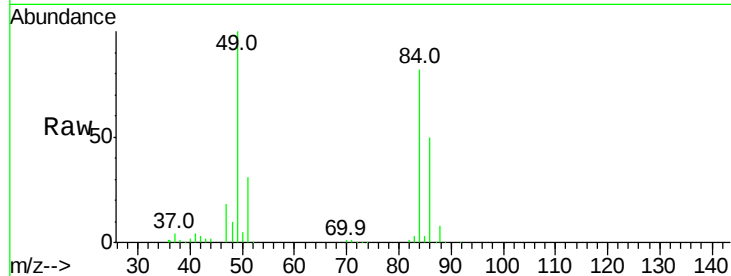




#16
Methylene chloride
Concen: 5.851 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW014476.D
Acq: 27 Dec 2019 19:01

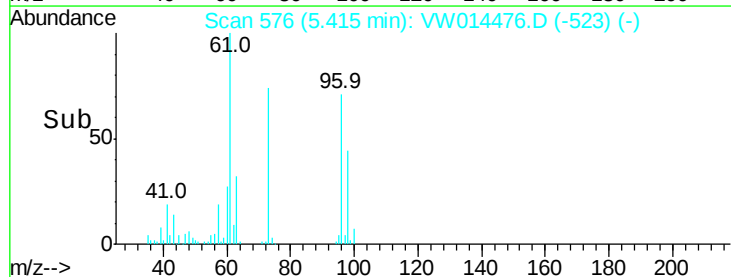
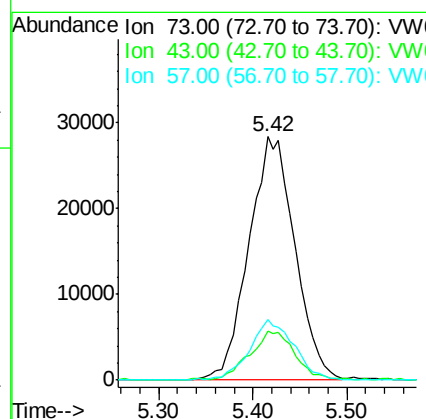
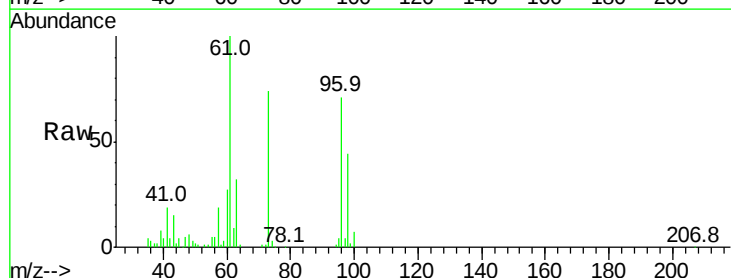
Instrument :
MSVOA_W
ClientSampleId :
VSTD00503

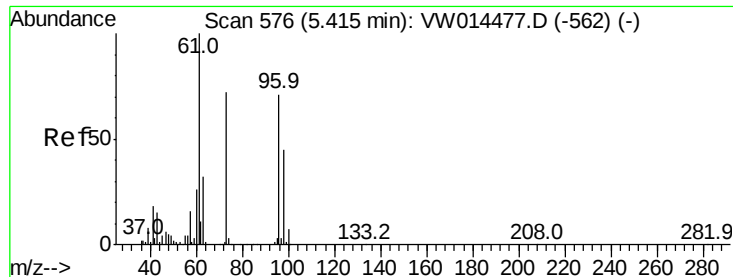
Tgt Ion: 84 Resp: 108724
Ion Ratio Lower Upper
84 100
49 122.6 85.8 159.4
86 61.8 44.5 82.7



#17
Methyl tert-butyl Ether
Concen: 4.552 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW014476.D
Acq: 27 Dec 2019 19:01

Tgt Ion: 73 Resp: 97185
Ion Ratio Lower Upper
73 100
43 19.0 15.7 23.5
57 23.8 18.3 27.5





#18

trans-1,2-Dichloroethene

Concen: 4.693 ug/L

RT: 5.42 min Scan# 576

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

VSTD00503

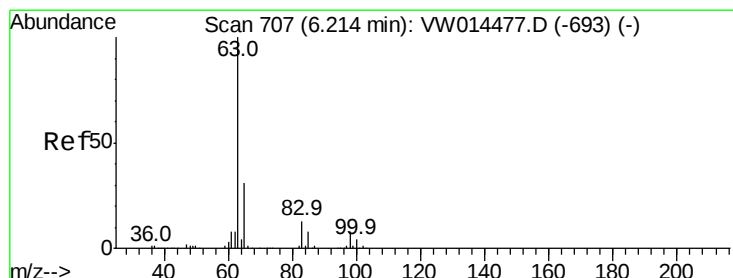
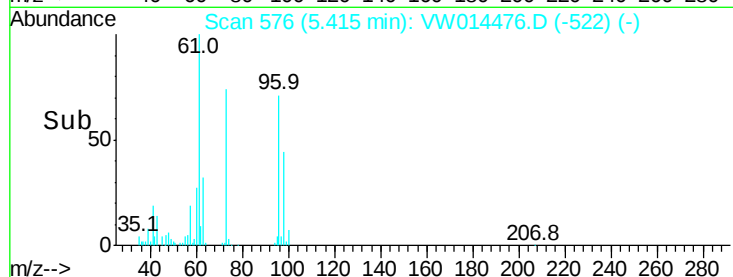
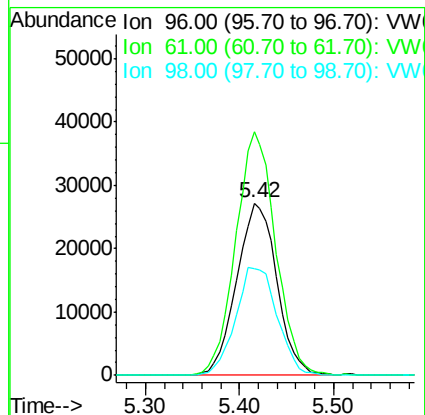
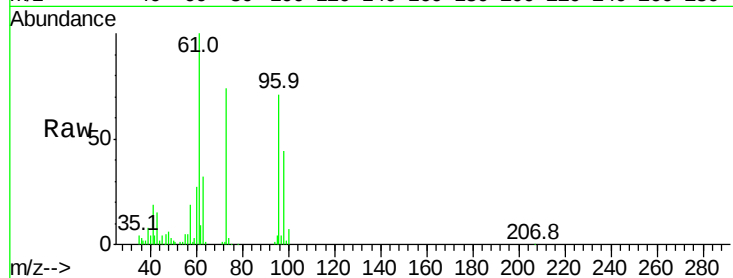
Tgt Ion: 96 Resp: 81355

Ion Ratio Lower Upper

96 100

61 141.2 98.2 182.4

98 62.0 44.1 81.9



#19

1,1-Dichloroethane

Concen: 4.792 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

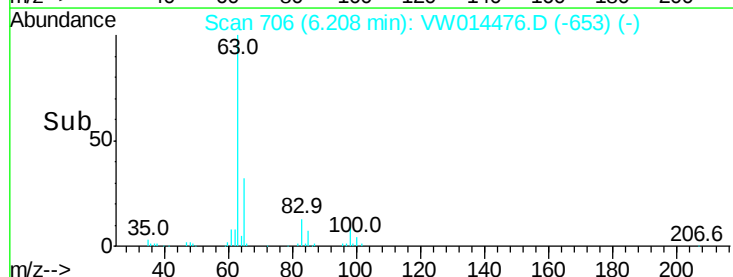
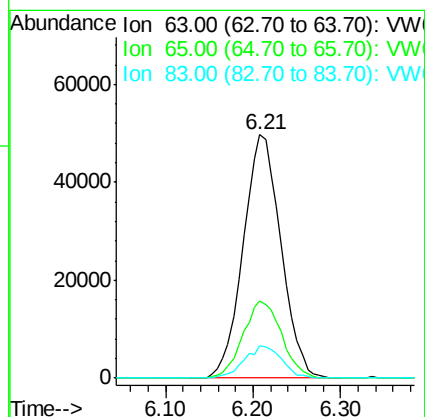
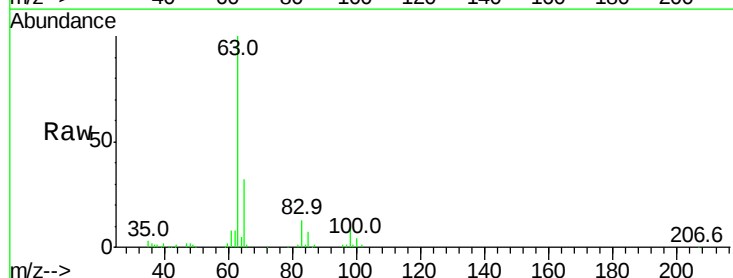
Tgt Ion: 63 Resp: 149265

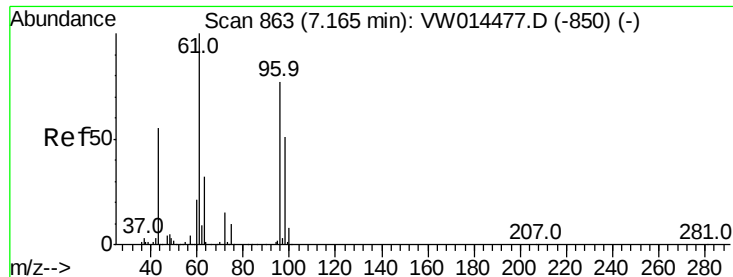
Ion Ratio Lower Upper

63 100

65 31.8 21.7 40.3

83 13.4 9.0 16.8





#21

2-Butanone

Concen: 9.811 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

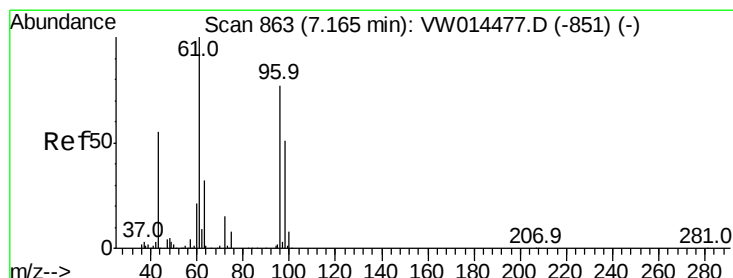
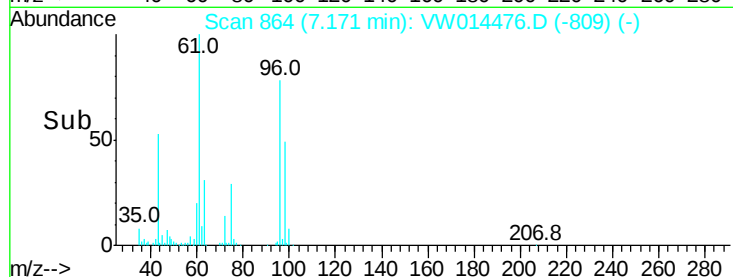
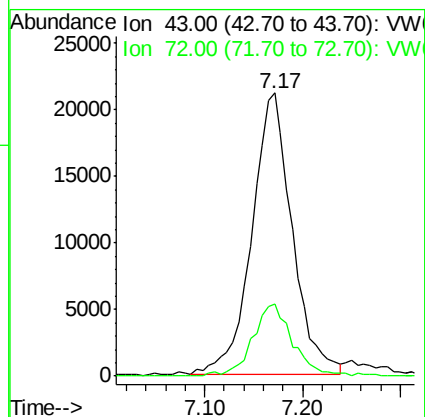
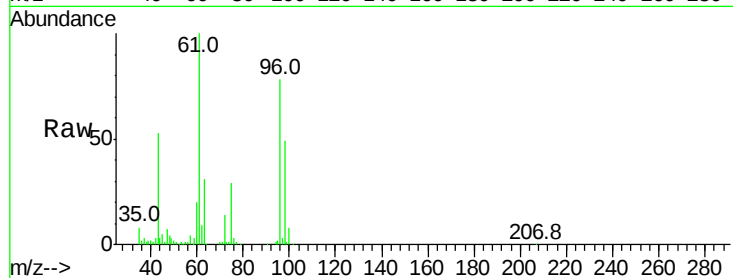
VSTD00503

Tgt Ion: 43 Resp: 60748

Ion Ratio Lower Upper

43 100

72 24.8 13.3 39.8



#22

cis-1,2-Dichloroethene

Concen: 4.565 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

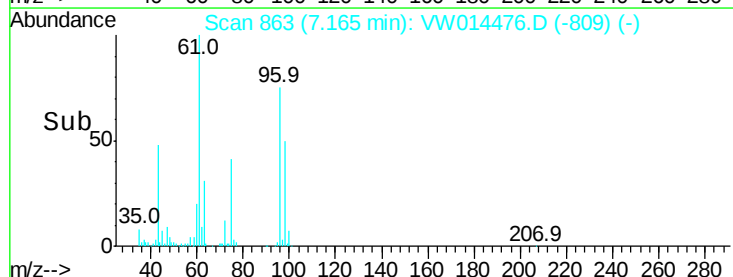
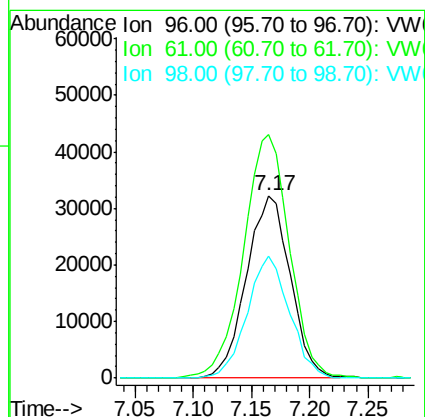
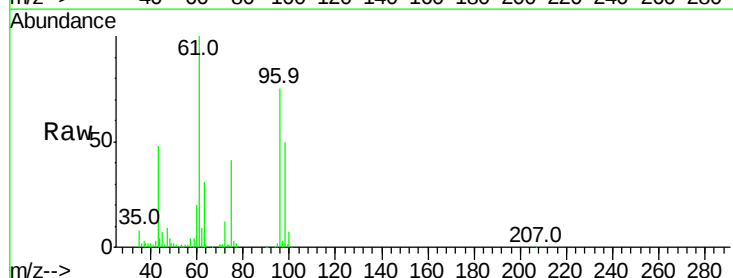
Tgt Ion: 96 Resp: 84214

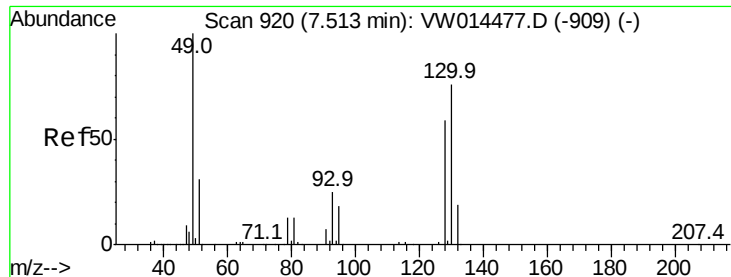
Ion Ratio Lower Upper

96 100

61 133.5 91.5 169.9

98 66.9 46.9 87.1





#23

Bromochloromethane

Concen: 4.440 ug/L

RT: 7.51 min Scan# 920

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

VSTD00503

Tgt Ion:128 Resp: 37676

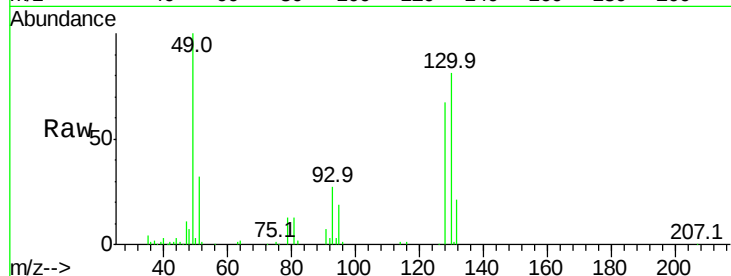
Ion Ratio Lower Upper

128 100

49 149.6 118.3 219.7

130 120.9 89.5 166.1

51 47.2 42.1 63.1

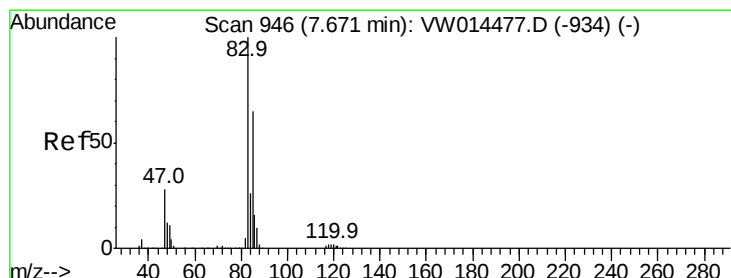
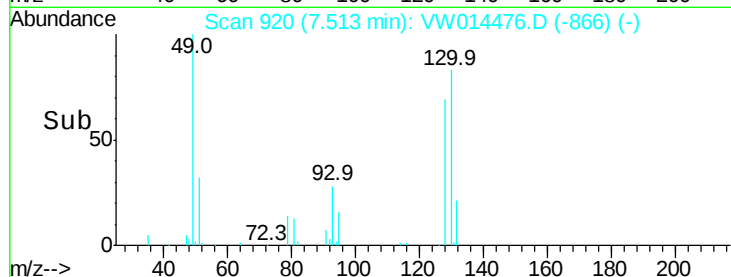
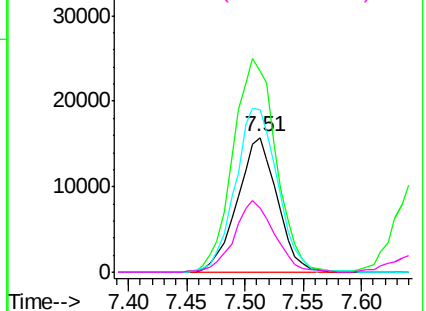


Abundance Ion 128.00 (127.70 to 128.70): V

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: 4.788 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW014476.D

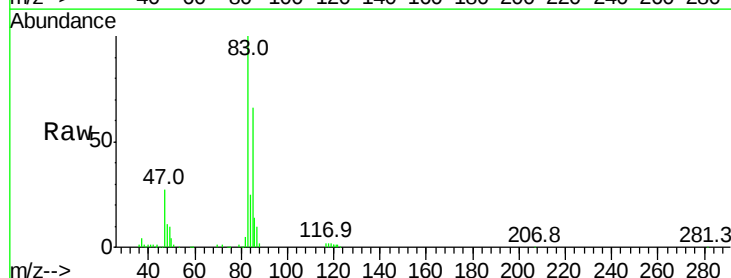
Acq: 27 Dec 2019 19:01

Tgt Ion: 83 Resp: 144922

Ion Ratio Lower Upper

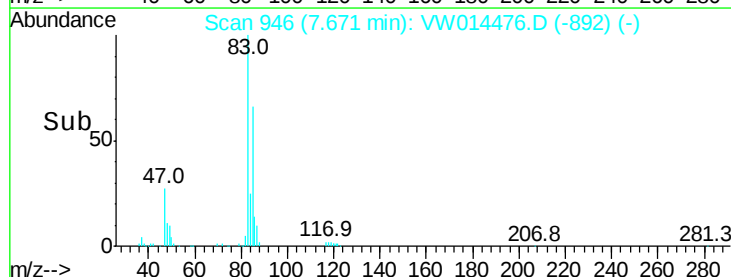
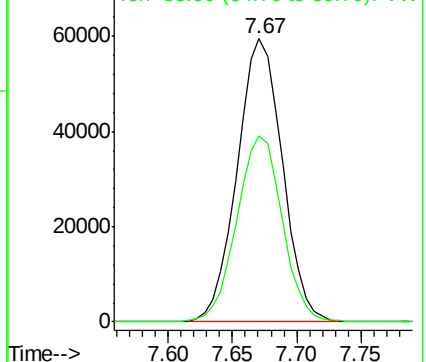
83 100

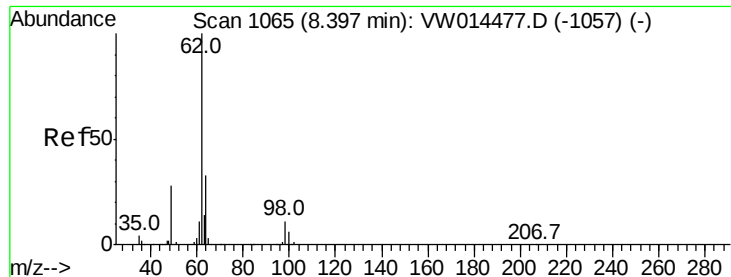
85 66.1 45.8 85.2



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

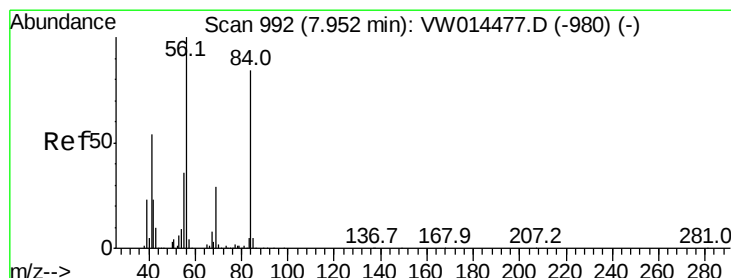
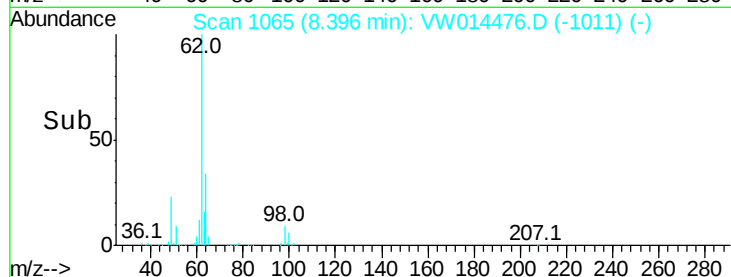
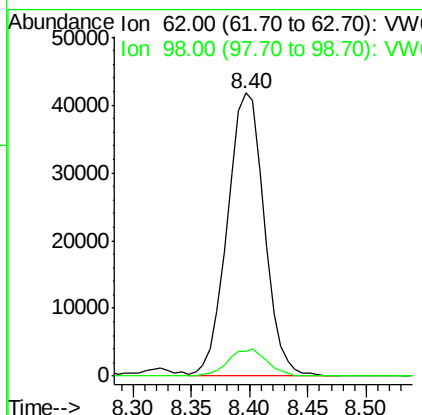
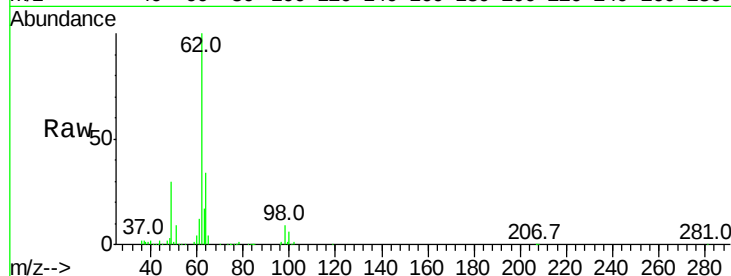




#27
 1,2-Dichloroethane
 Concen: 4.668 ug/L
 RT: 8.40 min Scan# 1065
 Delta R.T. -0.00 min
 Lab File: VW014476.D
 Acq: 27 Dec 2019 19:01

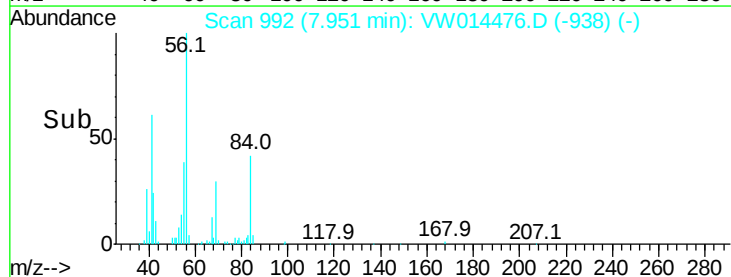
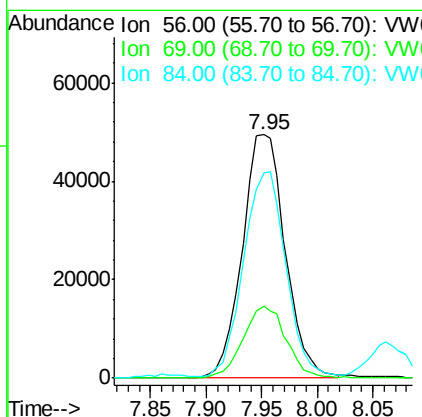
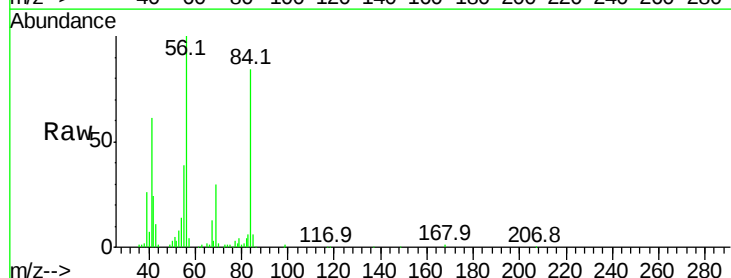
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00503

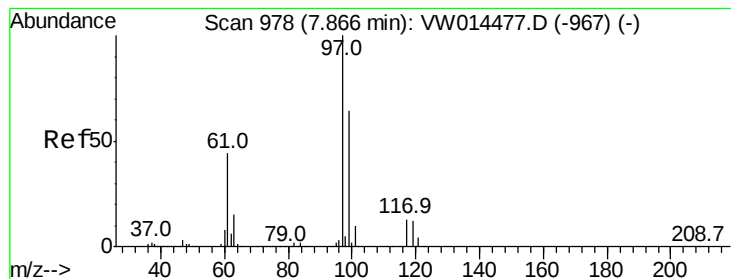
Tgt Ion: 62 Resp: 92518
 Ion Ratio Lower Upper
 62 100
 98 8.8 8.3 12.5



#30
 Cyclohexane
 Concen: 4.909 ug/L
 RT: 7.95 min Scan# 992
 Delta R.T. -0.00 min
 Lab File: VW014476.D
 Acq: 27 Dec 2019 19:01

Tgt Ion: 56 Resp: 133070
 Ion Ratio Lower Upper
 56 100
 69 29.5 23.8 35.8
 84 84.4 68.2 102.2





#31

1,1,1-Trichloroethane

Concen: 5.271 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

VSTD00503

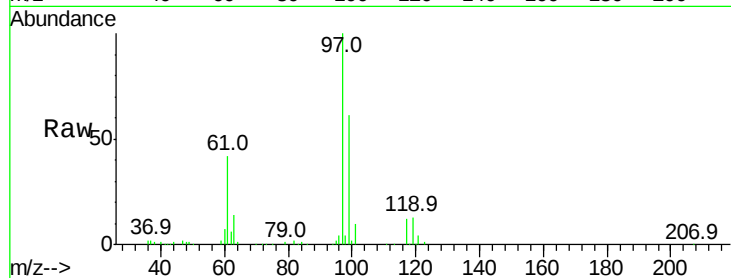
Tgt Ion: 97 Resp: 114983

Ion Ratio Lower Upper

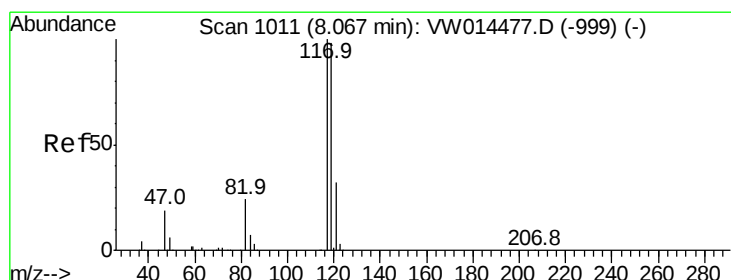
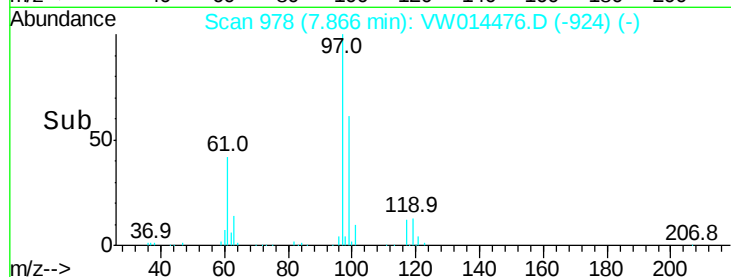
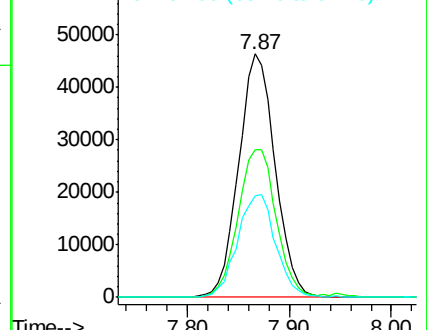
97 100

99 63.4 51.6 77.4

61 44.1 35.3 52.9



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: 5.121 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW014476.D

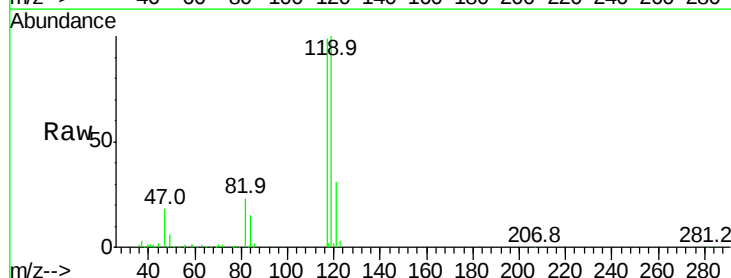
Acq: 27 Dec 2019 19:01

Tgt Ion: 117 Resp: 105995

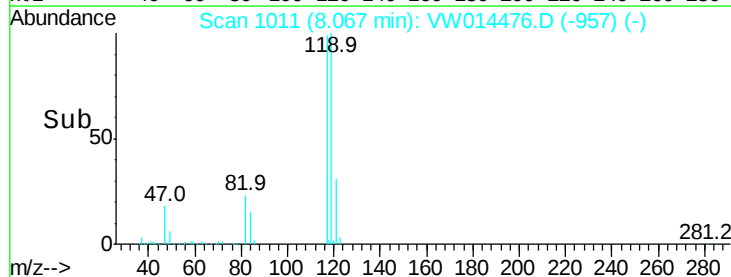
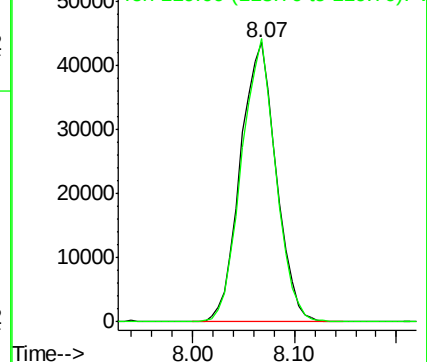
Ion Ratio Lower Upper

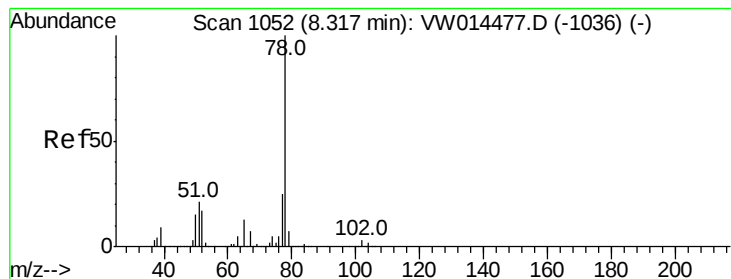
117 100

119 97.0 77.6 116.4



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 4.898 ug/L

RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

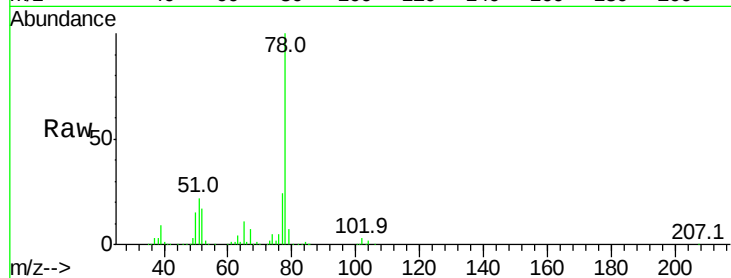
Instrument :

MSVOA_W

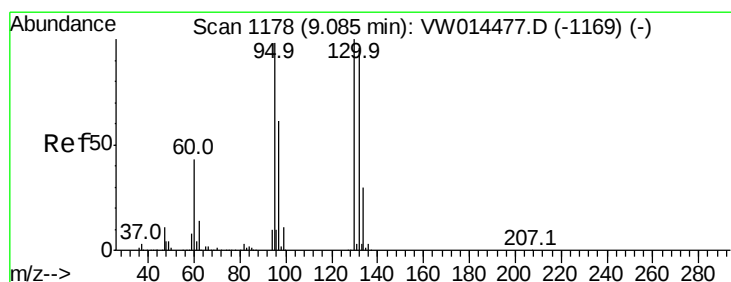
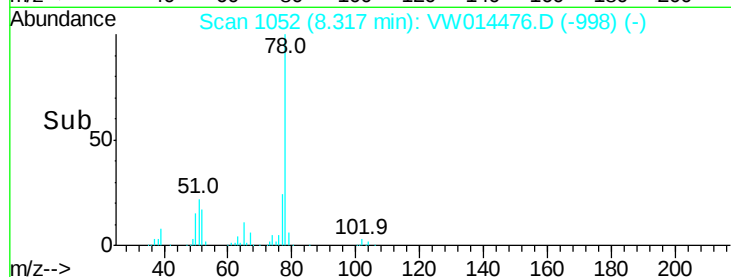
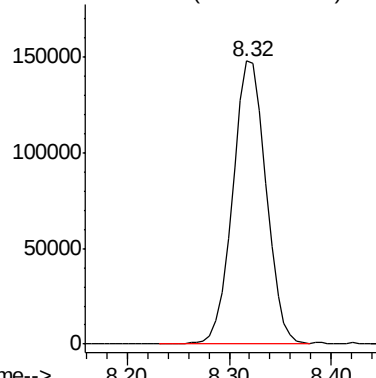
ClientSampleId :

VSTD00503

Tgt Ion: 78 Resp: 336821



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 4.843 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Tgt Ion: 95 Resp: 85207

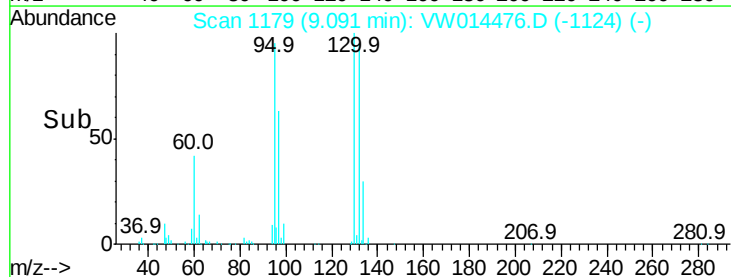
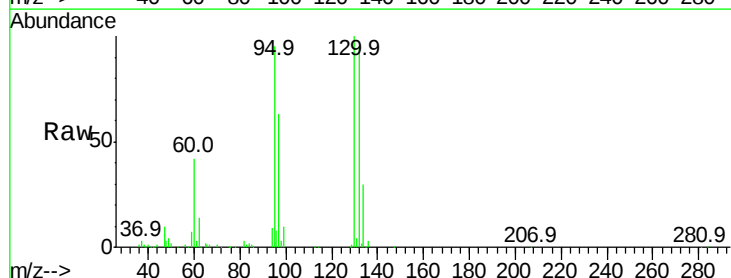
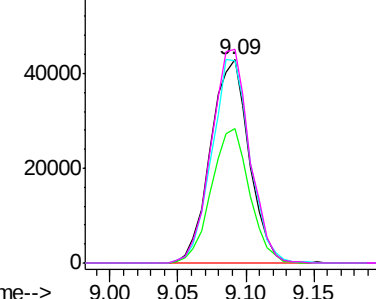
Ion	Ratio	Lower	Upper
95	100		
97	65.4	44.3	82.3
132	98.9	69.2	128.6
130	104.3	72.3	134.3

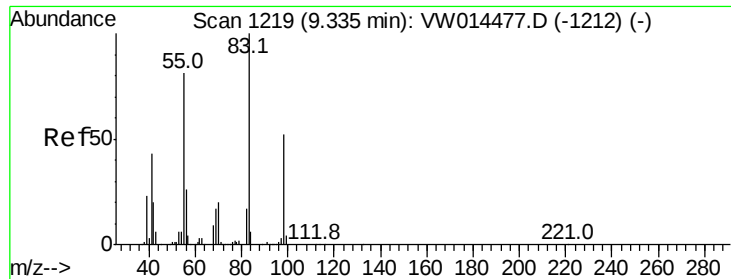
Abundance Ion 95.00 (94.70 to 95.70): VW

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

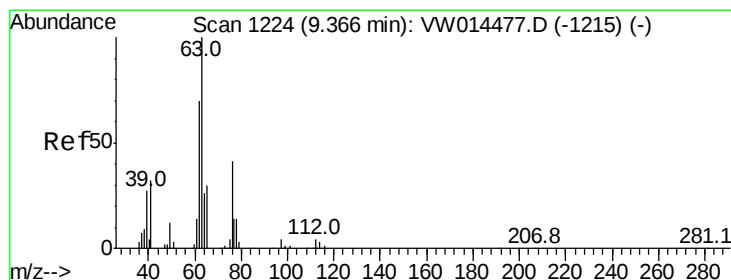
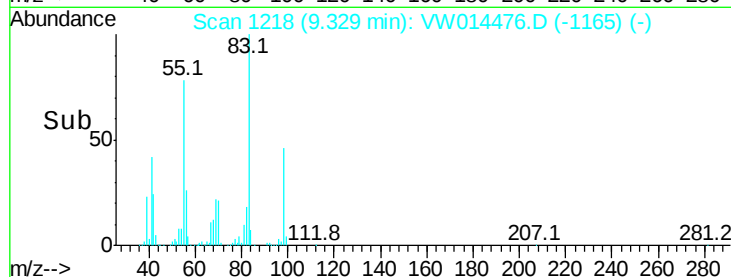
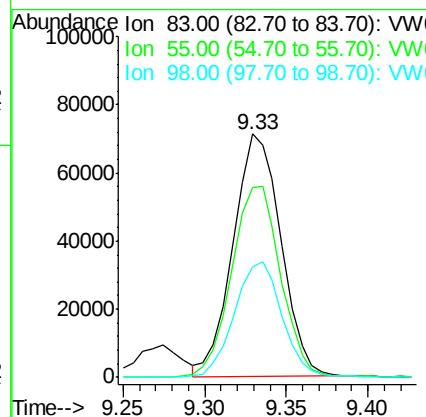
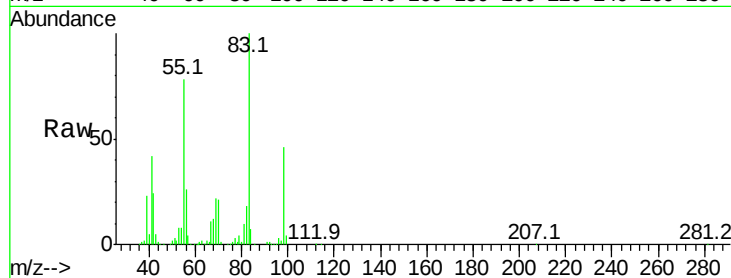




#36
Methylcyclohexane
Concen: 4.911 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW014476.D
Acq: 27 Dec 2019 19:01

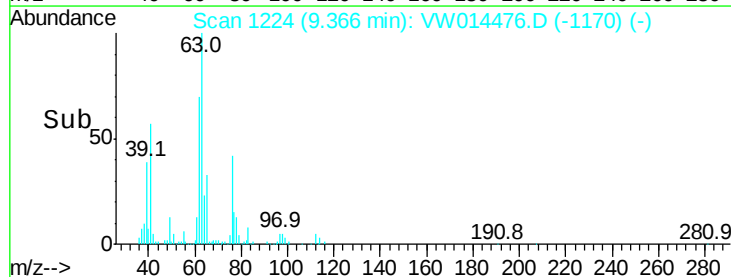
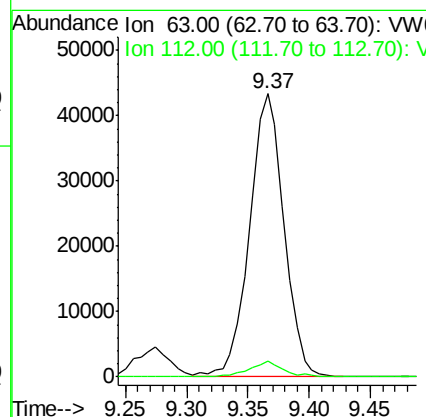
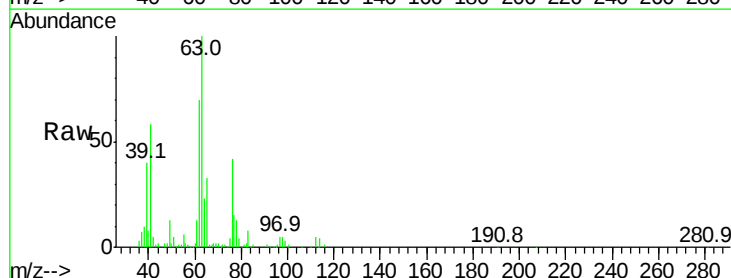
Instrument :
MSVOA_W
ClientSampleId :
VSTD00503

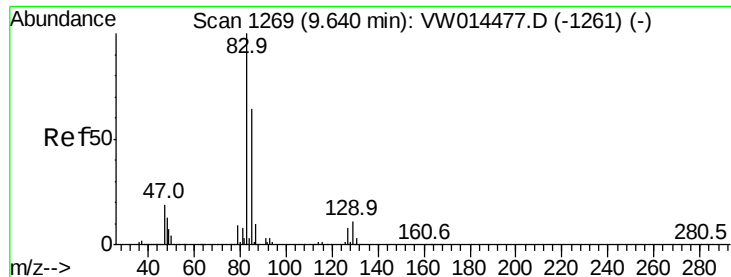
Tgt Ion: 83 Resp: 145209
Ion Ratio Lower Upper
83 100
55 81.1 63.7 95.5
98 47.9 39.4 59.2



#40
1,2-Dichloropropane
Concen: 4.813 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VW014476.D
Acq: 27 Dec 2019 19:01

Tgt Ion: 63 Resp: 85027
Ion Ratio Lower Upper
63 100
112 5.4 3.7 5.5





#41

Bromodichloromethane

Concen: 4.612 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

VSTD00503

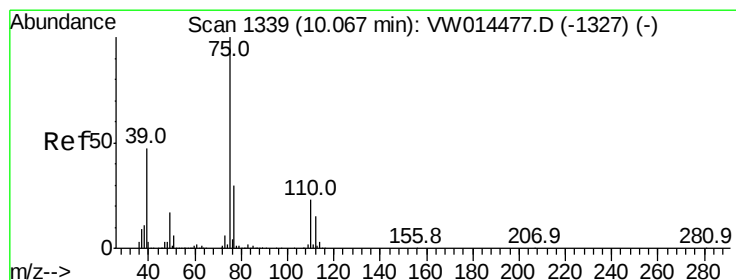
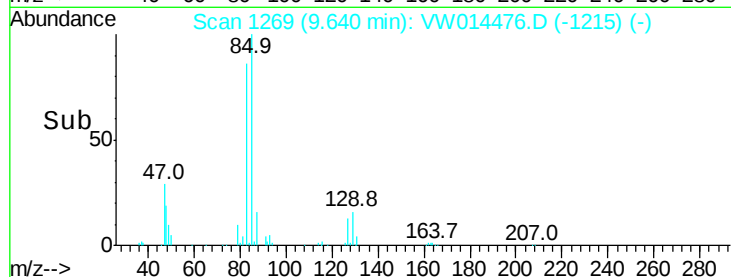
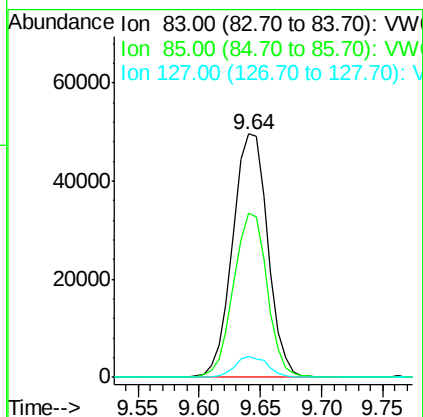
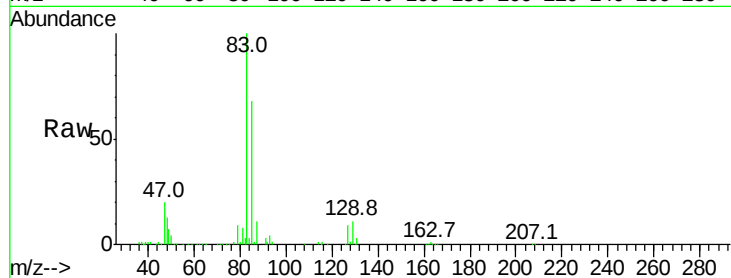
Tgt Ion: 83 Resp: 99012

Ion Ratio Lower Upper

83 100

85 67.7 44.7 83.1

127 8.8 6.3 9.5



#42

cis-1,3-Dichloropropene

Concen: 4.454 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.01 min

Lab File: VW014476.D

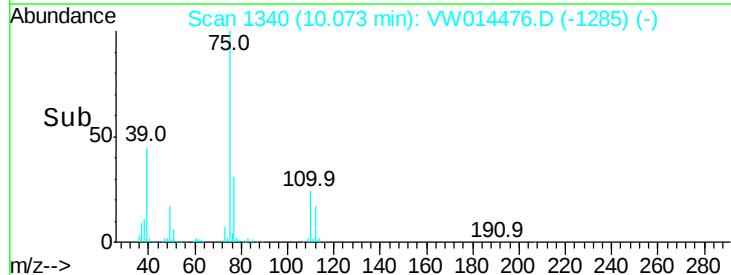
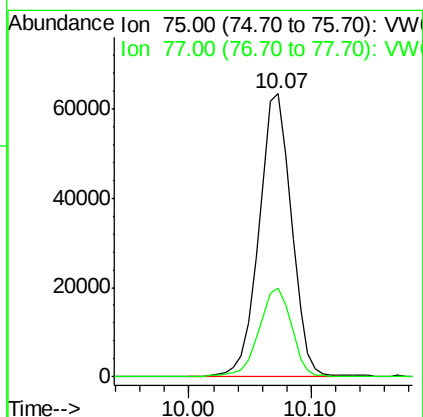
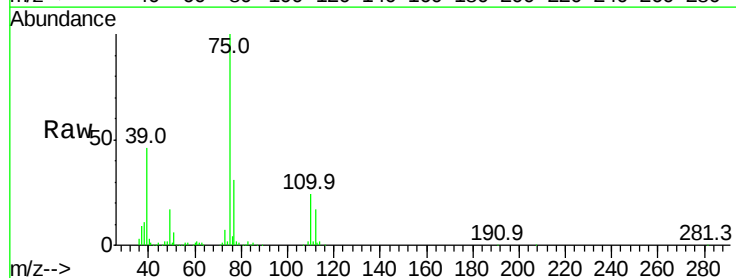
Acq: 27 Dec 2019 19:01

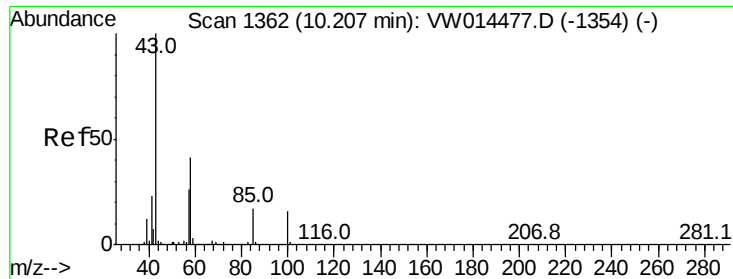
Tgt Ion: 75 Resp: 117833

Ion Ratio Lower Upper

75 100

77 31.4 21.0 39.0

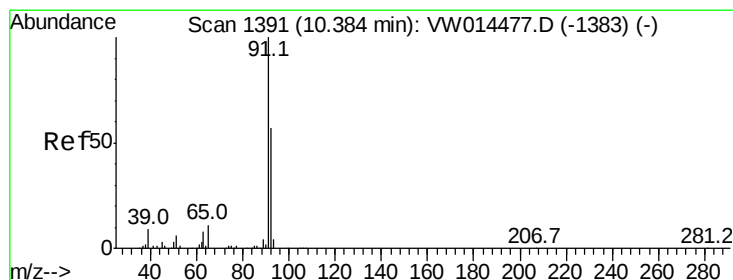
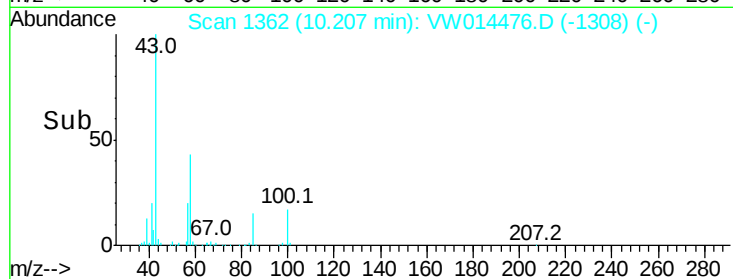
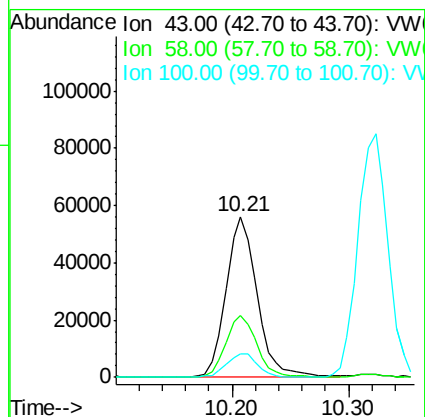
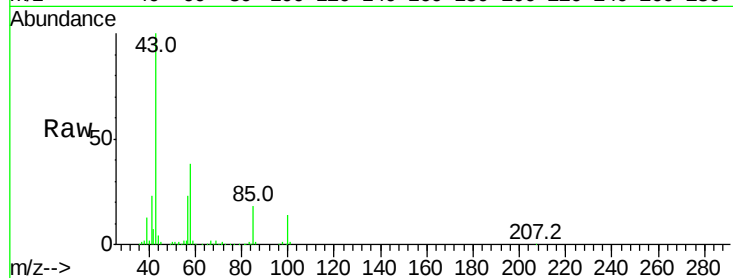




#43
 4-Methyl-2-pentanone
 Concen: 8.818 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW014476.D
 Acq: 27 Dec 2019 19:01

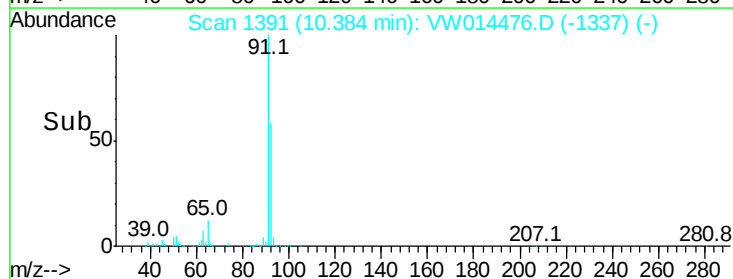
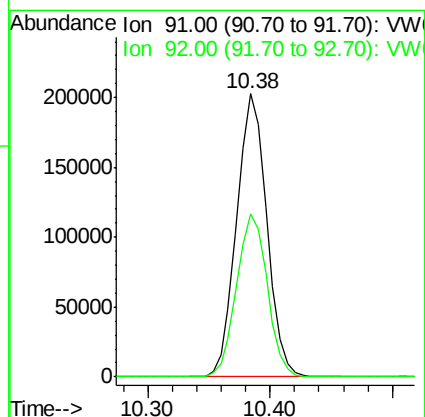
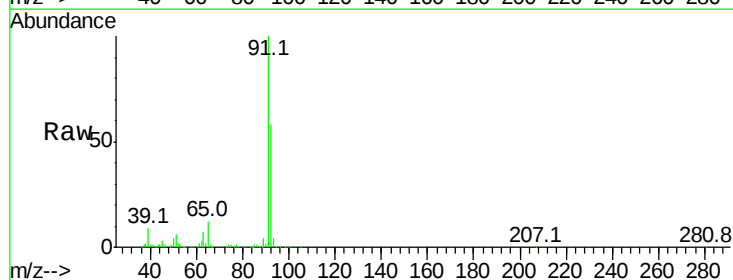
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD00503

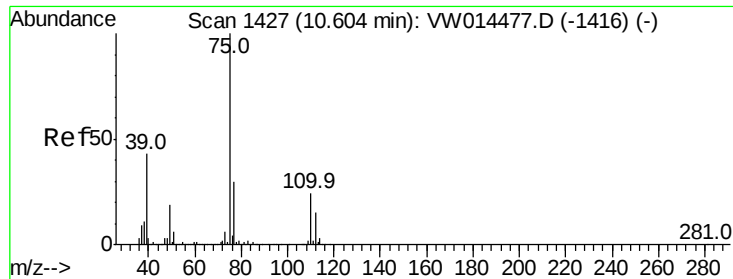
Tgt Ion: 43 Resp: 102730
 Ion Ratio Lower Upper
 43 100
 58 38.7 32.6 48.8
 100 15.0 12.6 19.0



#44
 Toluene
 Concen: 4.800 ug/L
 RT: 10.38 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VW014476.D
 Acq: 27 Dec 2019 19:01

Tgt Ion: 91 Resp: 346060
 Ion Ratio Lower Upper
 91 100
 92 57.7 40.2 74.6





#45

trans-1,3-Dichloropropene

Concen: 4.424 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

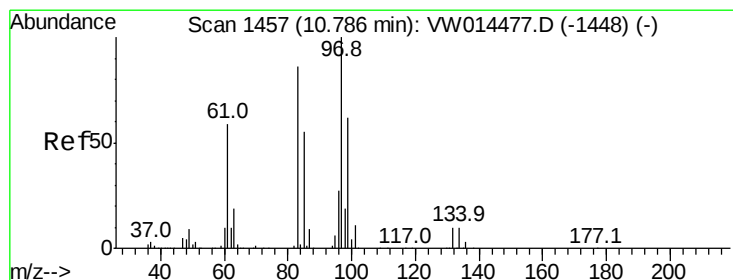
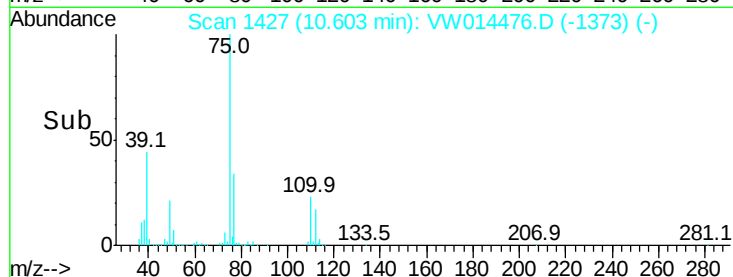
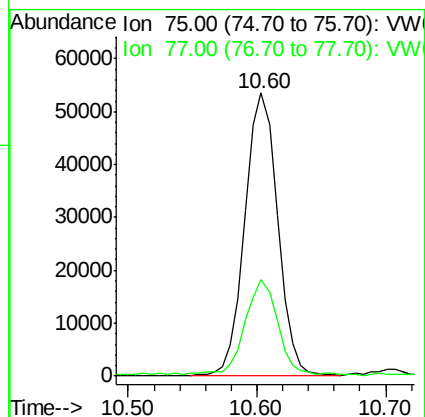
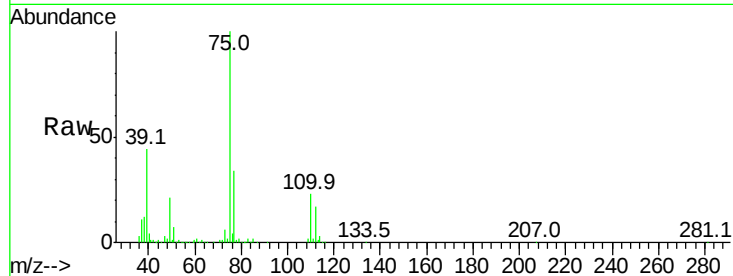
VSTD00503

Tgt Ion: 75 Resp: 94739

Ion Ratio Lower Upper

75 100

77 34.1 21.1 39.3



#46

1,1,2-Trichloroethane

Concen: 4.470 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Tgt Ion: 97 Resp: 59177

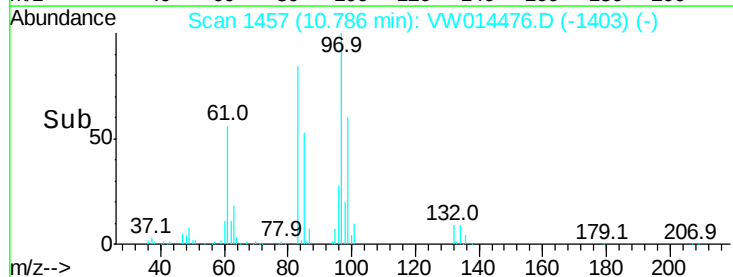
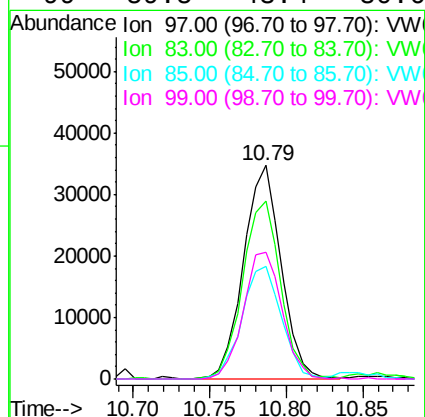
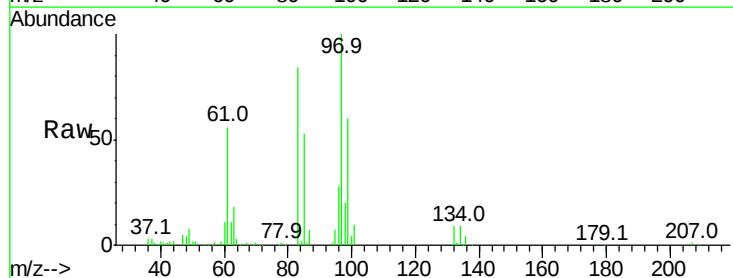
Ion Ratio Lower Upper

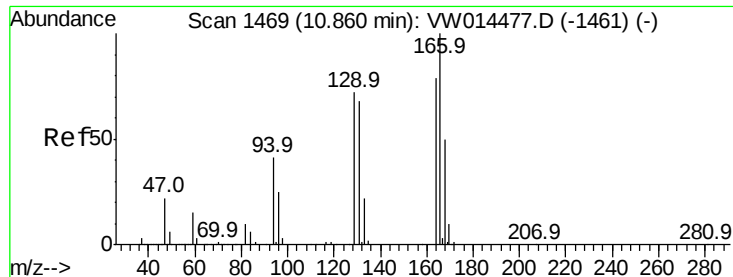
97 100

83 83.6 60.1 111.5

85 52.9 38.1 70.9

99 59.5 43.4 80.6





#47

Tetrachloroethene

Concen: 4.890 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

VSTD00503

Tgt Ion:164 Resp: 71708

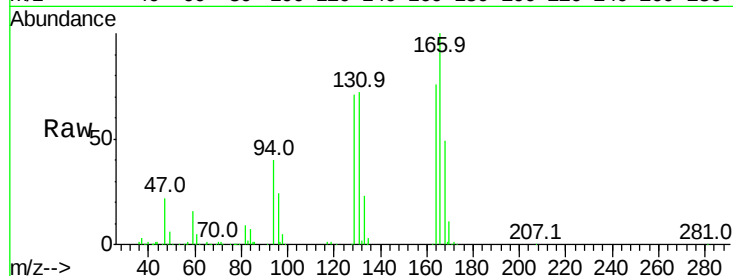
Ion Ratio Lower Upper

164 100

129 94.3 64.0 118.8

131 95.1 60.2 111.8

166 132.3 88.2 163.8

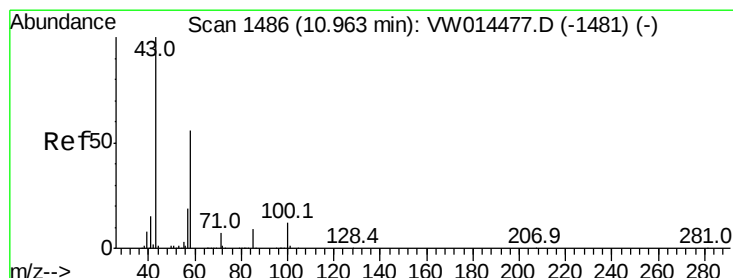
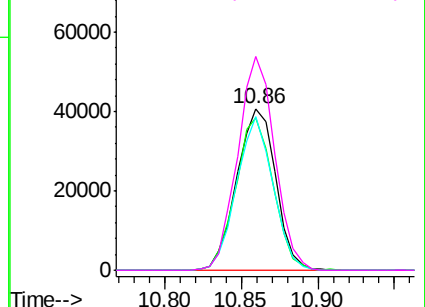
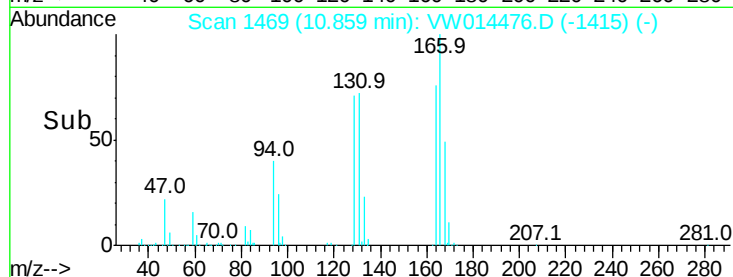


Abundance Ion 164.00 (163.70 to 164.70): V

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: 8.031 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.01 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Tgt Ion: 43 Resp: 66614

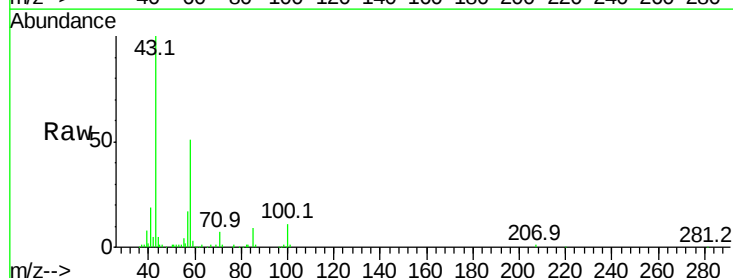
Ion Ratio Lower Upper

43 100

58 52.3 44.9 67.3

57 18.0 15.3 22.9

100 11.8 10.0 15.0

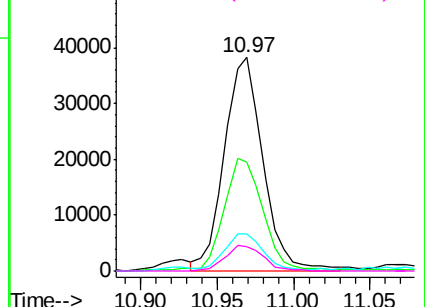
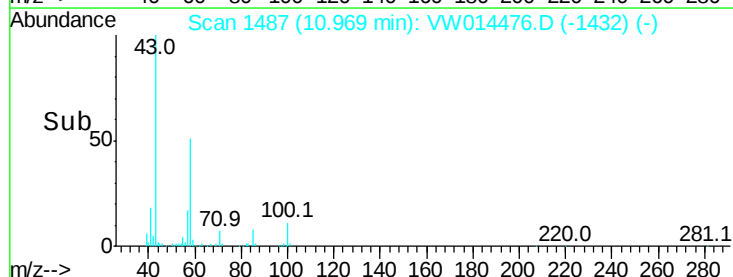


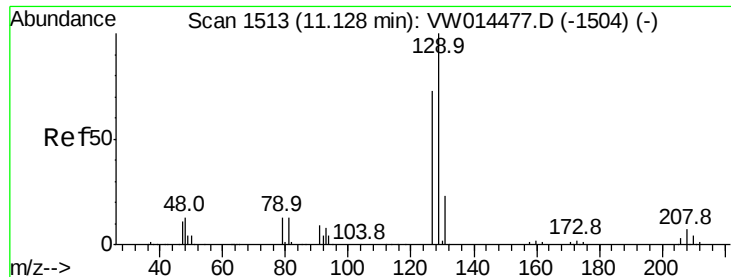
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 58.00 (57.70 to 58.70): VV

Ion 57.00 (56.70 to 57.70): VV

Ion 100.00 (99.70 to 100.70): VV





#50

Dibromochloromethane

Concen: 4.365 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

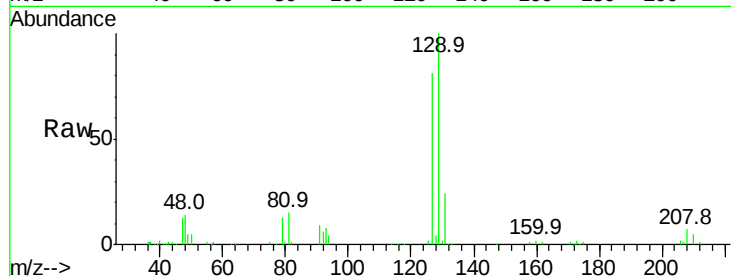
VSTD00503

Tgt Ion:129 Resp: 64862

Ion Ratio Lower Upper

129 100

127 81.4 51.1 94.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

11.13

40000

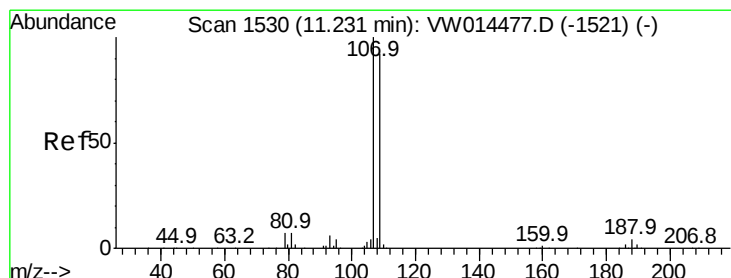
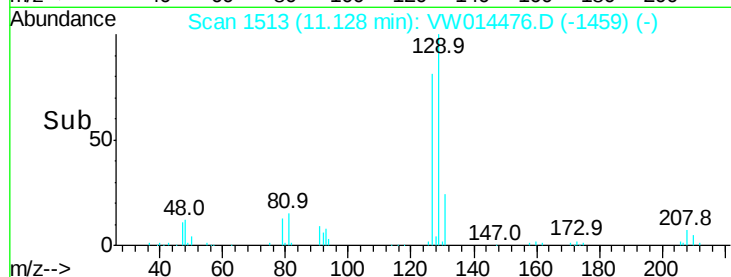
30000

20000

10000

0

Time--> 11.10 11.20



#51

1,2-Dibromoethane

Concen: 4.436 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

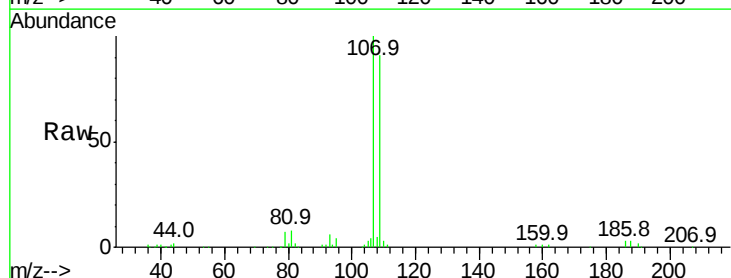
Tgt Ion:107 Resp: 55631

Ion Ratio Lower Upper

107 100

109 90.8 64.7 120.1

188 3.0 3.0 4.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

11.23

40000

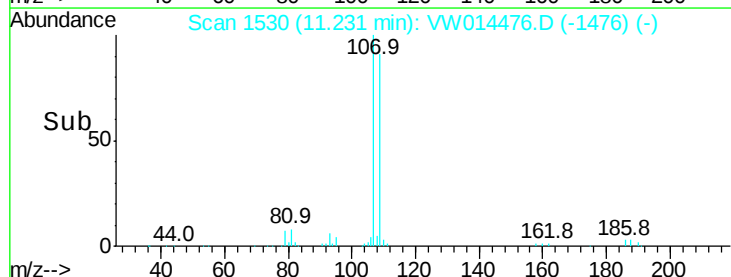
30000

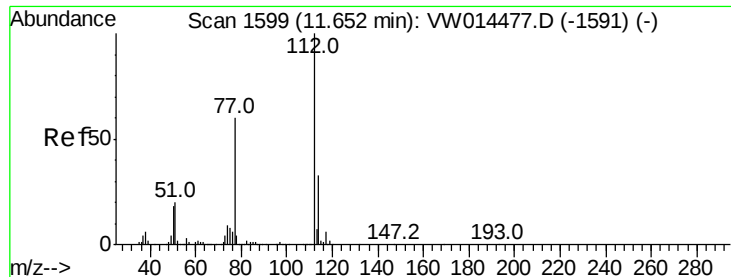
20000

10000

0

Time--> 11.15 11.20 11.25 11.30





#52

Chlorobenzene

Concen: 4.730 ug/L

RT: 11.65 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

VSTD00503

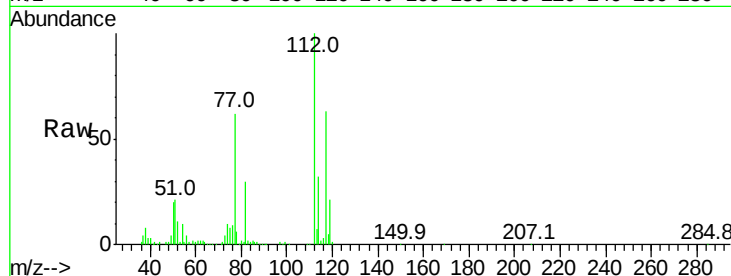
Tgt Ion: 112 Resp: 220420

Ion Ratio Lower Upper

112 100

77 61.8 48.2 72.2

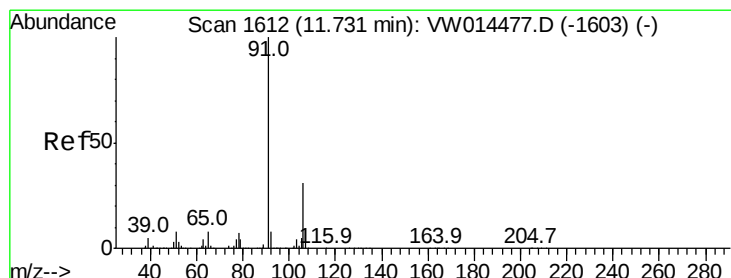
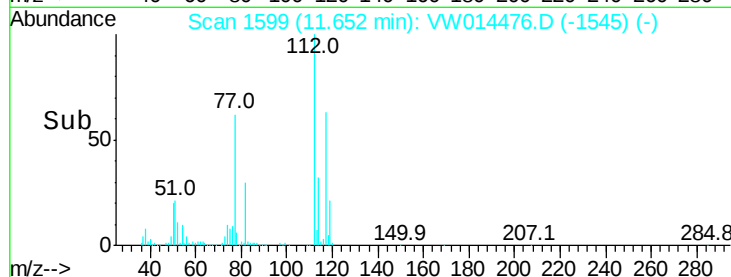
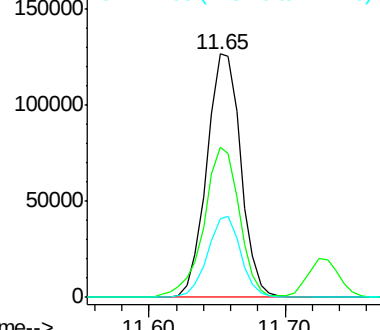
114 32.0 22.9 42.5



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 4.759 ug/L

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW014476.D

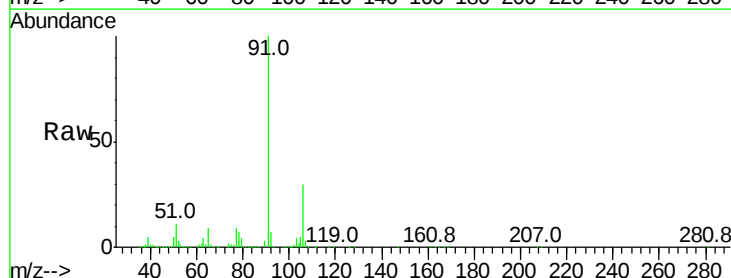
Acq: 27 Dec 2019 19:01

Tgt Ion: 91 Resp: 372292

Ion Ratio Lower Upper

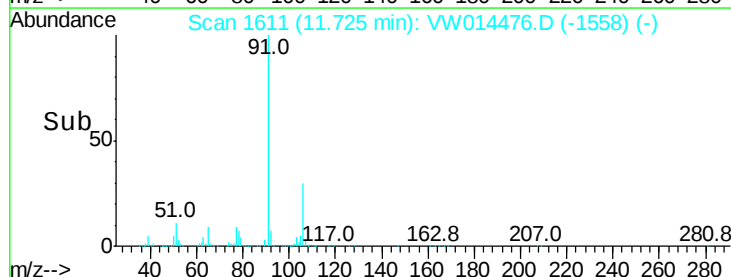
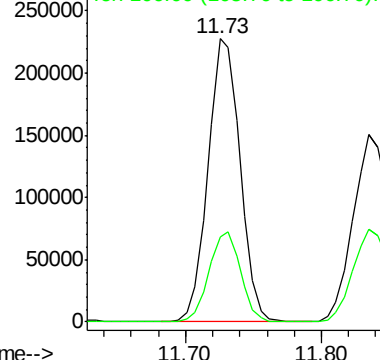
91 100

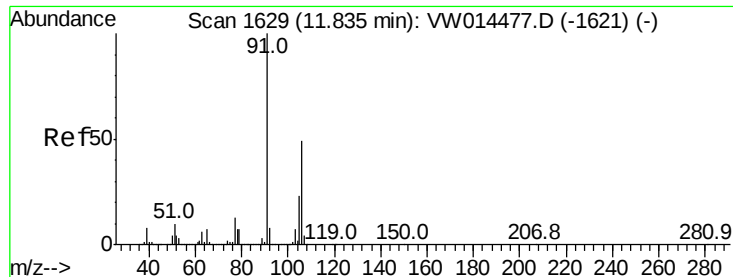
106 30.2 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 4.666 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

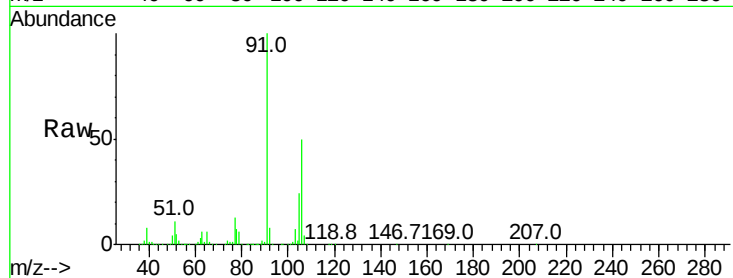
VSTD00503

Tgt Ion:106 Resp: 140419

Ion Ratio Lower Upper

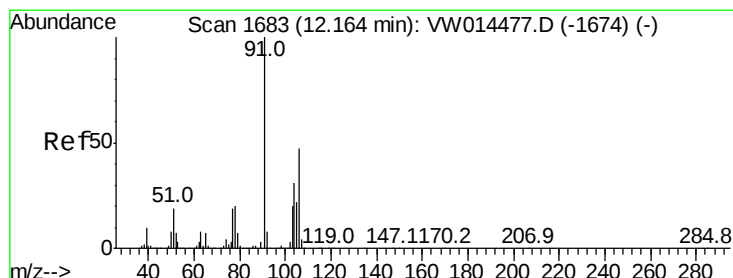
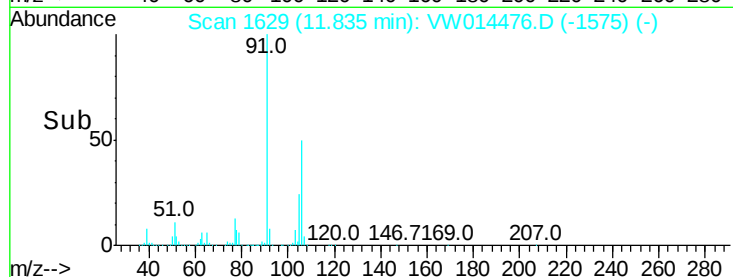
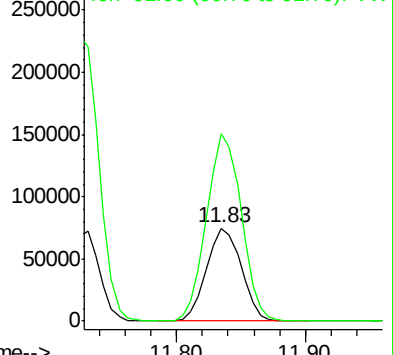
106 100

91 201.0 142.2 264.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 4.543 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW014476.D

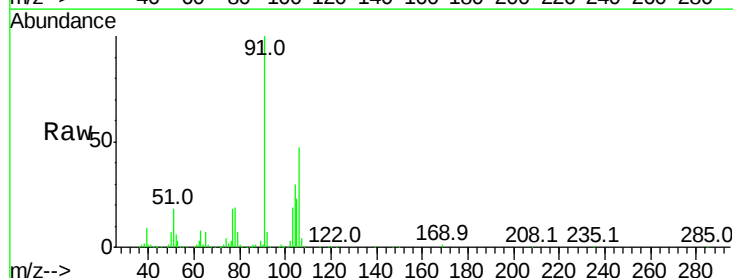
Acq: 27 Dec 2019 19:01

Tgt Ion:106 Resp: 129665

Ion Ratio Lower Upper

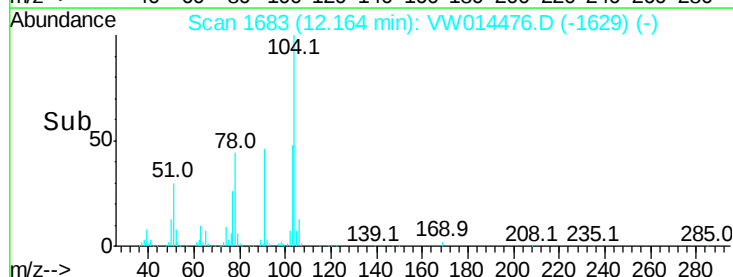
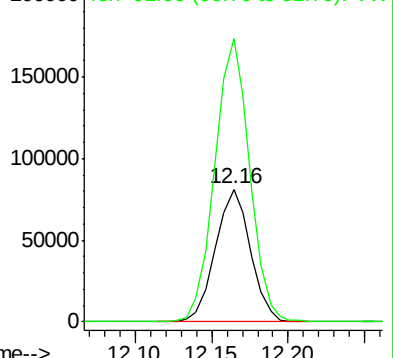
106 100

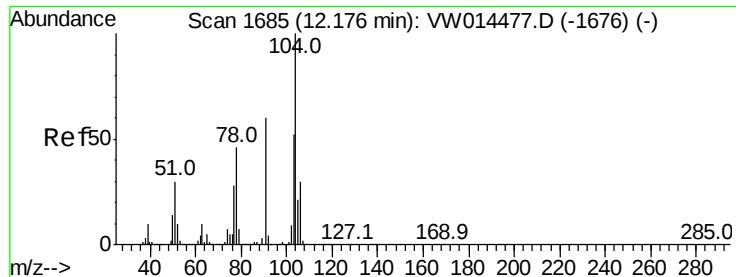
91 213.0 148.7 276.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Styrene

Concen: 4.541 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampled :

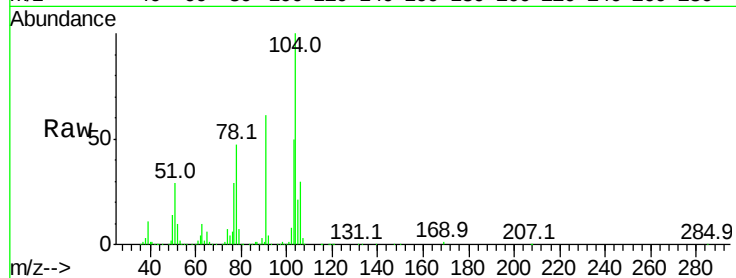
VSTD00503

Tgt Ion:104 Resp: 221766

Ion Ratio Lower Upper

104 100

78 47.1 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW

12.18

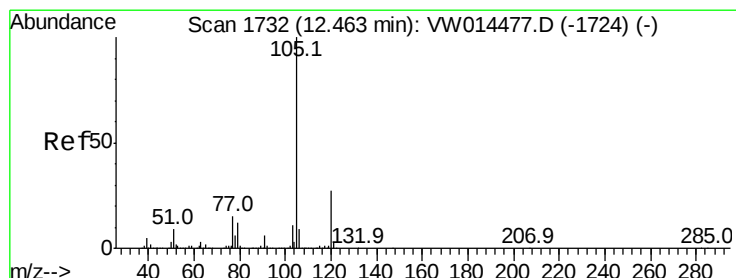
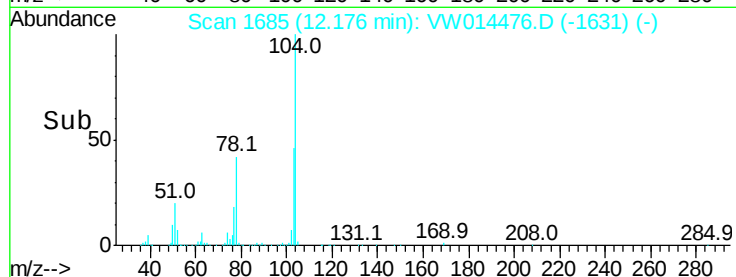
150000

100000

50000

0

Time--> 12.10 12.20



#57

Isopropylbenzene

Concen: 4.687 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

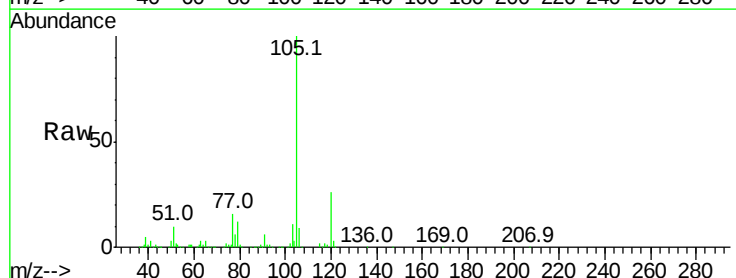
Tgt Ion:105 Resp: 347327

Ion Ratio Lower Upper

105 100

120 27.1 21.0 31.6

77 15.7 12.2 18.2



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

300000

250000

200000

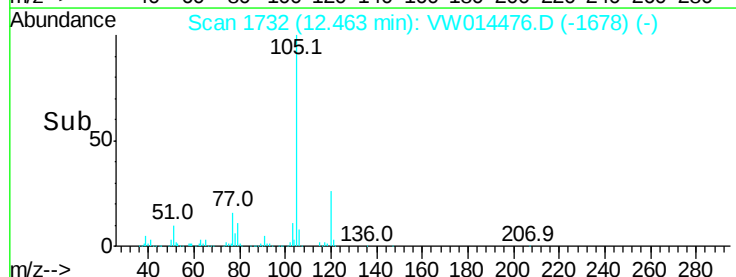
150000

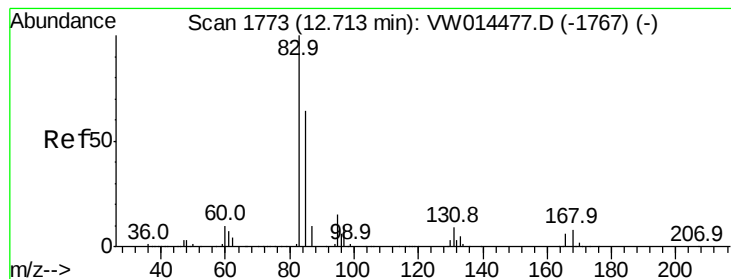
100000

50000

0

Time--> 12.40 12.50





#58

1,1,2,2-Tetrachloroethane

Concen: 4.303 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

VSTD00503

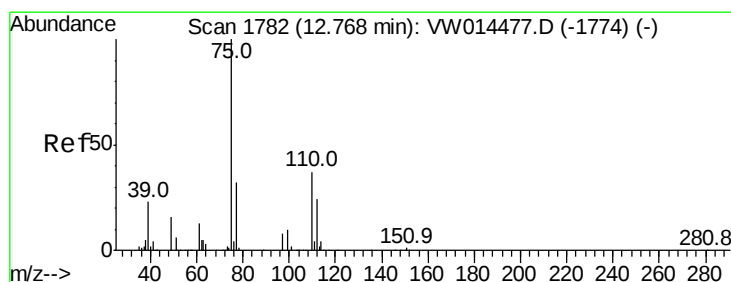
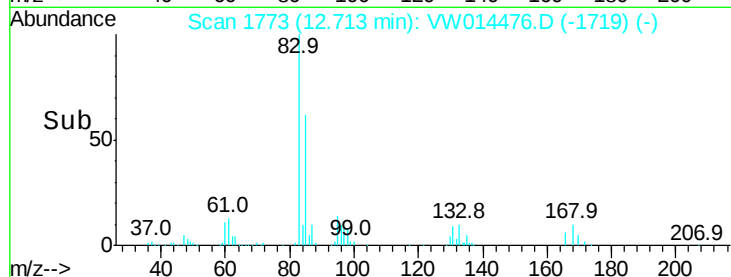
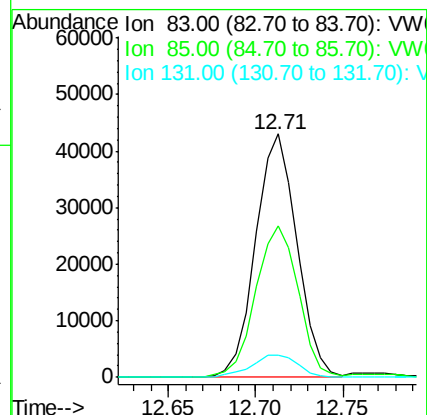
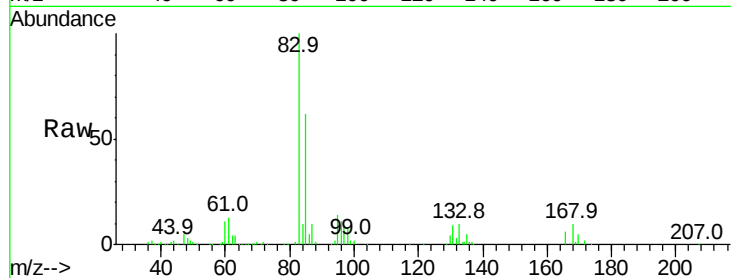
Tgt Ion: 83 Resp: 70712

Ion Ratio Lower Upper

83 100

85 62.2 45.3 84.1

131 9.2 8.0 12.0



#59

1,2,3-Trichloropropane

Concen: 4.321 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW014476.D

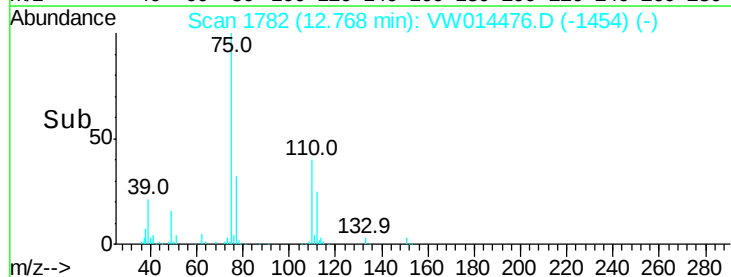
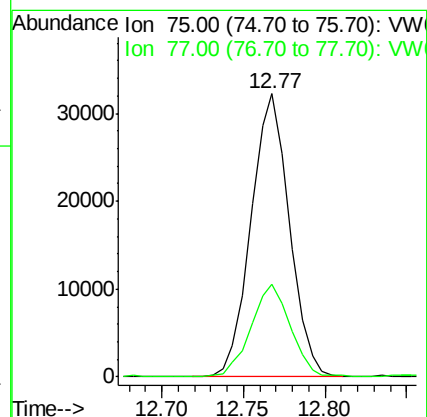
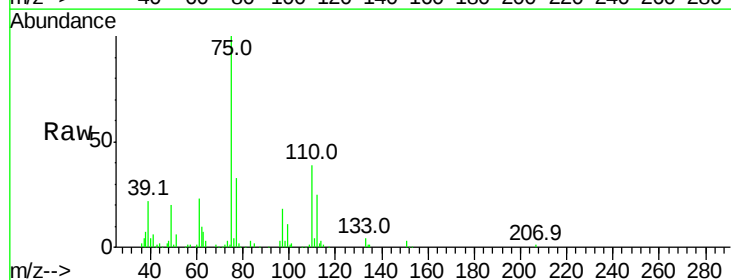
Acq: 27 Dec 2019 19:01

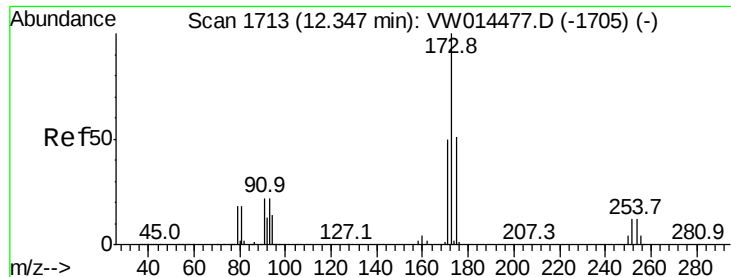
Tgt Ion: 75 Resp: 52762

Ion Ratio Lower Upper

75 100

77 32.1 26.2 39.2





#62

Bromoform

Concen: 4.302 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

VSTD00503

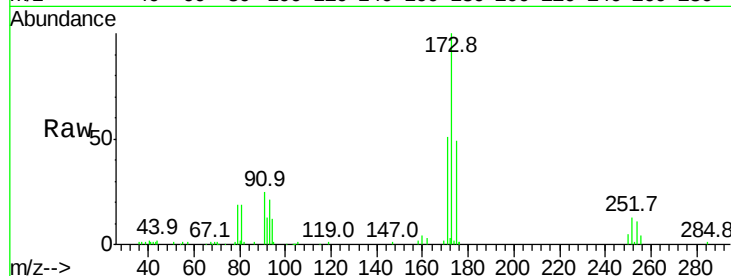
Tgt Ion:173 Resp: 37460

Ion Ratio Lower Upper

173 100

175 49.2 40.5 60.7

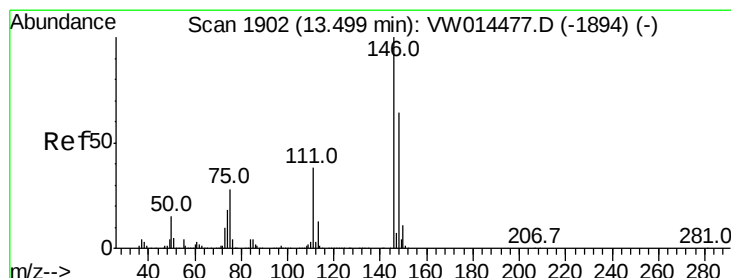
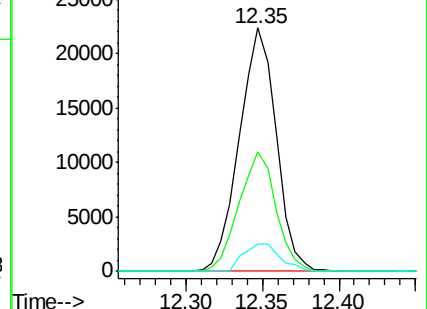
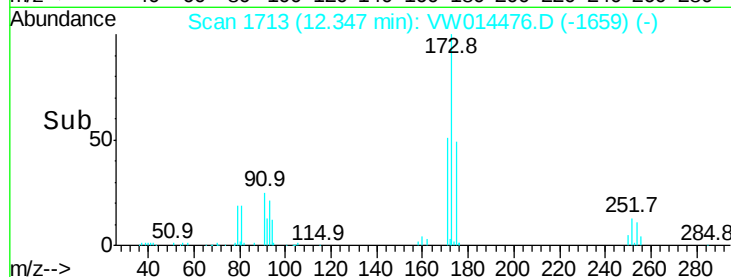
254 11.1 9.3 13.9



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: 4.715 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

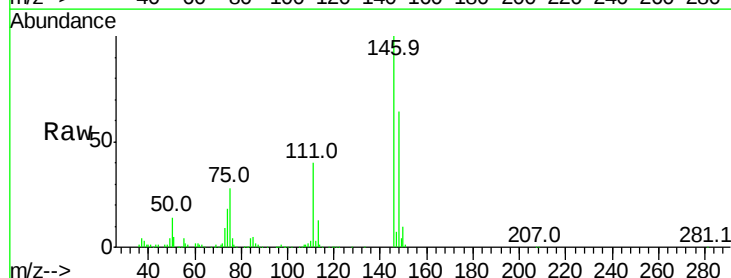
Tgt Ion:146 Resp: 162587

Ion Ratio Lower Upper

146 100

111 39.6 26.9 50.1

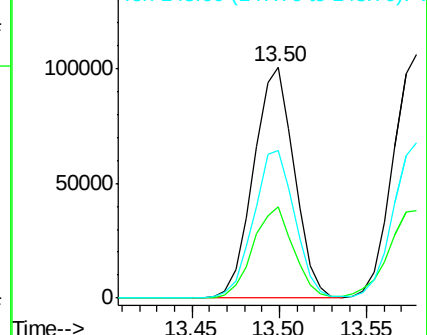
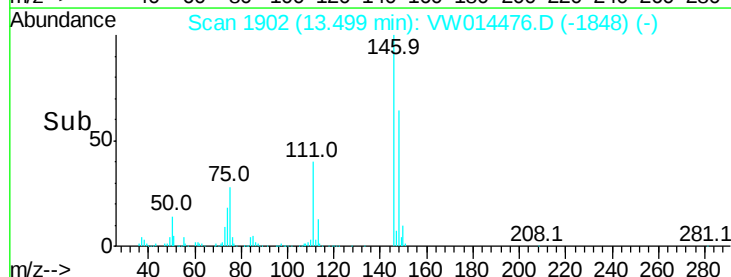
148 63.8 45.1 83.7

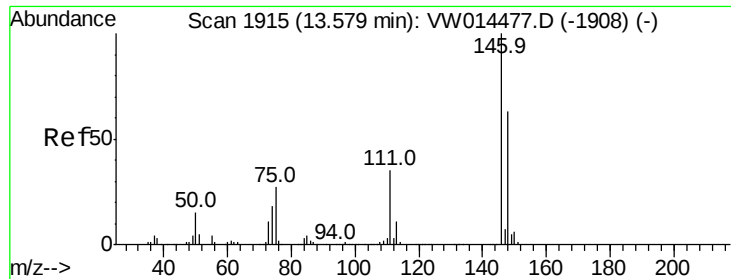


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

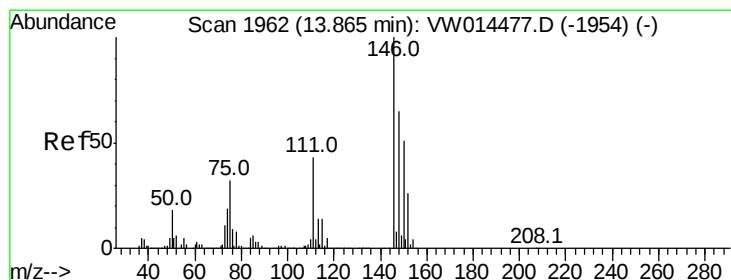
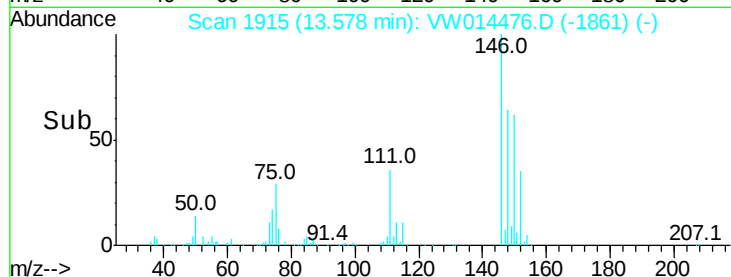
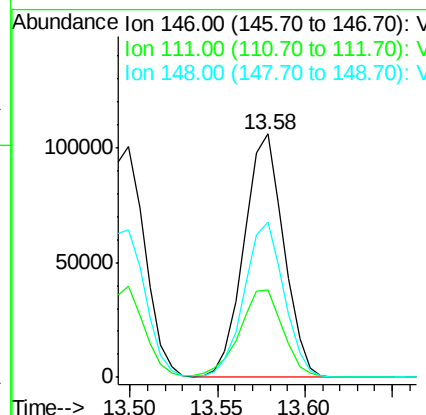
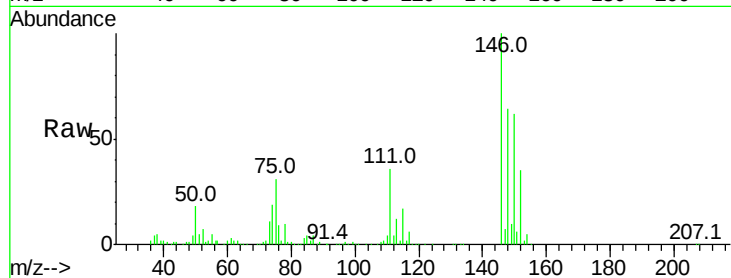




#64
1,4-Dichlorobenzene
Concen: 4.792 ug/L
RT: 13.58 min Scan# 1915
Delta R.T. -0.00 min
Lab File: VW014476.D
Acq: 27 Dec 2019 19:01

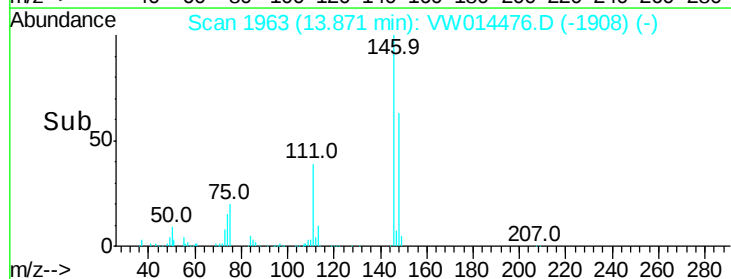
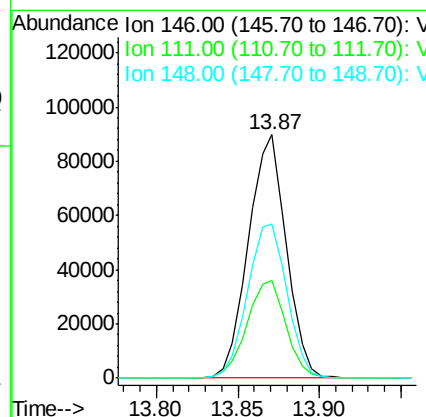
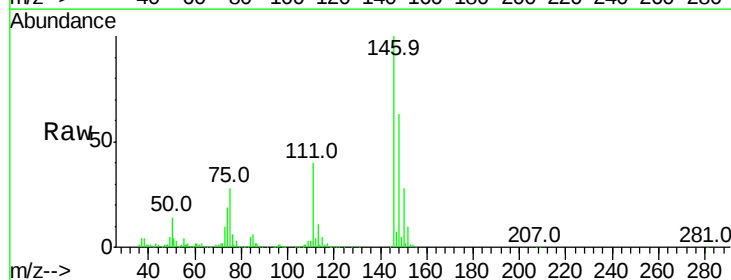
Instrument :
MSVOA_W
ClientSampleId :
VSTD00503

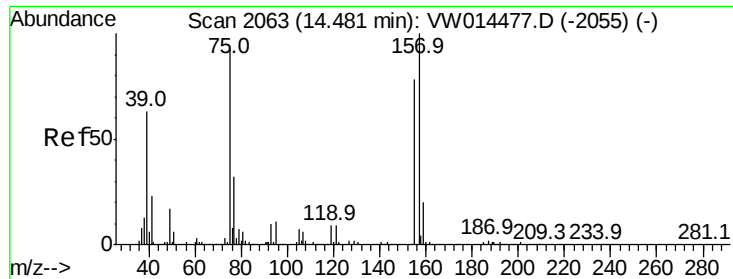
Tgt Ion:146 Resp: 167891
Ion Ratio Lower Upper
146 100
111 36.1 24.5 45.5
148 64.0 44.4 82.4



#65
1,2-Dichlorobenzene
Concen: 4.535 ug/L
RT: 13.87 min Scan# 1963
Delta R.T. 0.01 min
Lab File: VW014476.D
Acq: 27 Dec 2019 19:01

Tgt Ion:146 Resp: 145424
Ion Ratio Lower Upper
146 100
111 40.3 34.2 51.2
148 63.4 51.8 77.8





#66

1,2-Dibromo-3-chloropropane

Concen: 4.367 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

VSTD00503

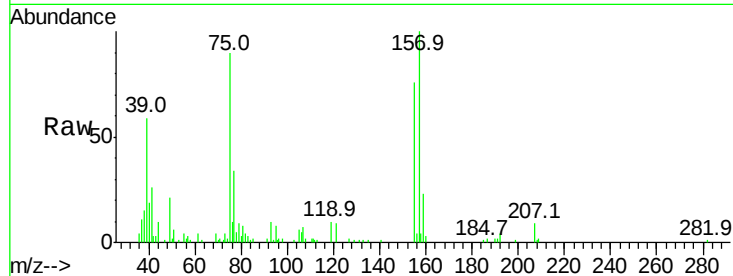
Tgt Ion: 75 Resp: 10803

Ion Ratio Lower Upper

75 100

157 110.6 87.2 130.8

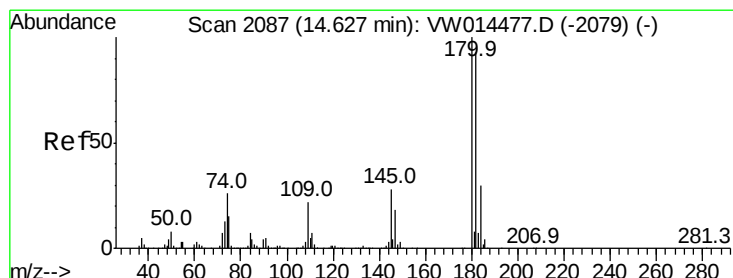
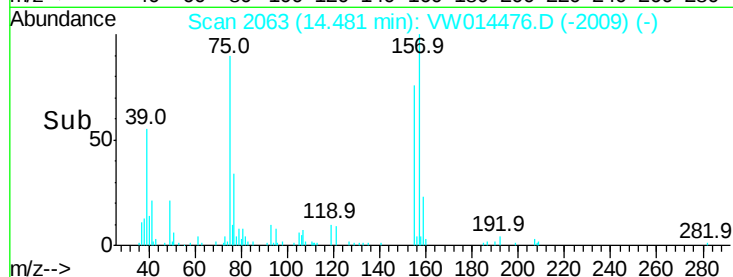
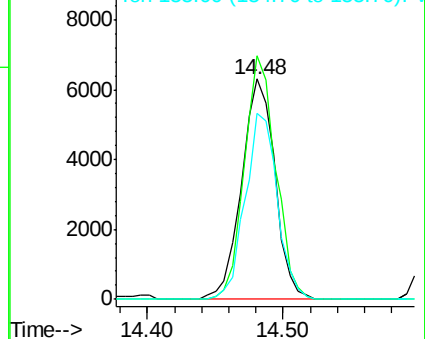
155 84.4 67.8 101.8



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: 4.781 ug/L

RT: 14.63 min Scan# 2087

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Tgt Ion: 180 Resp: 118614

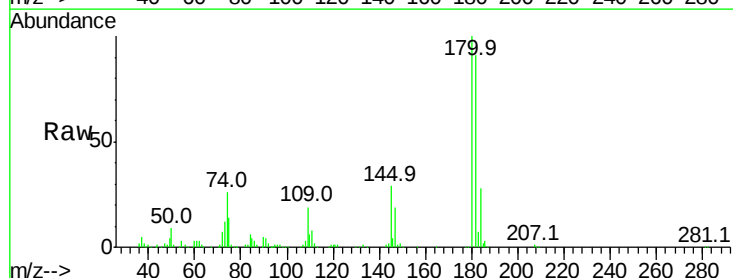
Ion Ratio Lower Upper

180 100

182 94.4 75.8 113.6

184 28.8 24.0 36.0

145 28.7 22.6 33.8

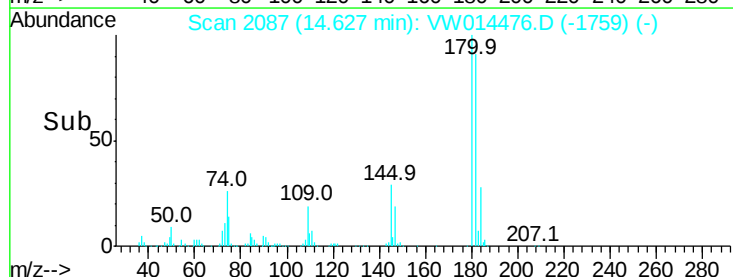
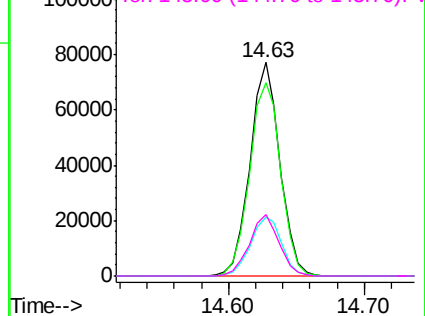


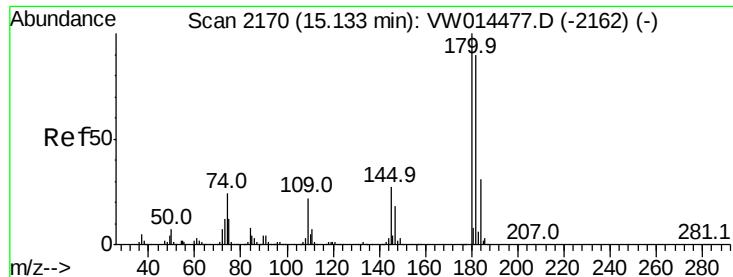
Abundance Ion 180.00 (179.70 to 180.70): V

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: 4.142 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

VSTD00503

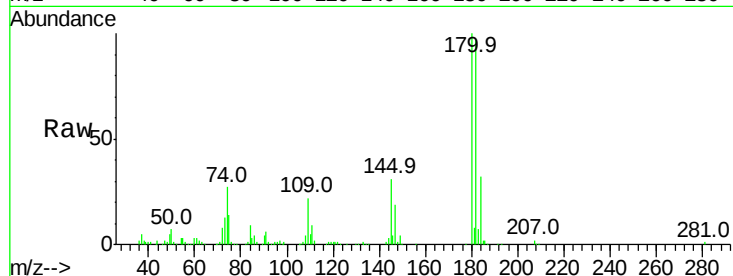
Tgt Ion:180 Resp: 80109

Ion Ratio Lower Upper

180 100

182 93.6 76.2 114.4

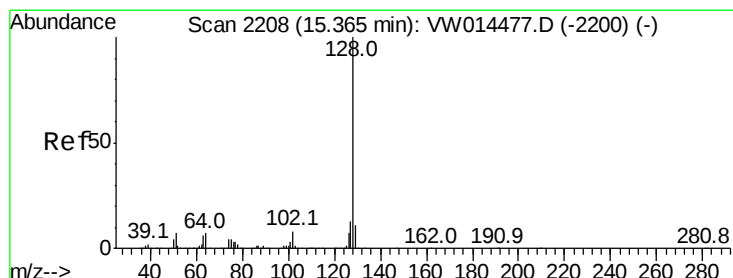
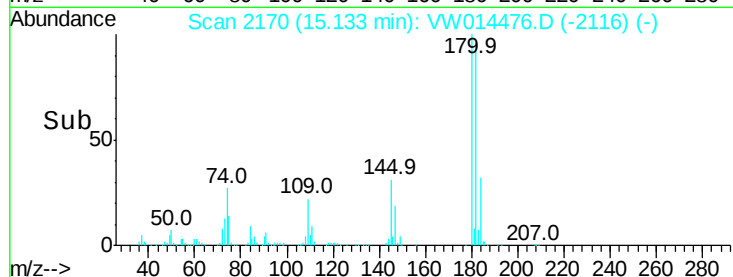
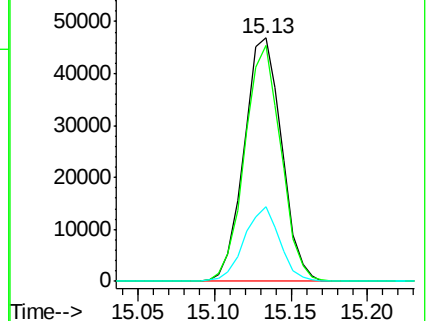
145 29.0 23.1 34.7



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: 3.343 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

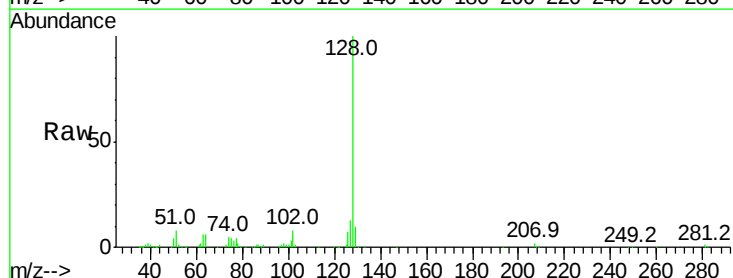
Tgt Ion:128 Resp: 121593

Ion Ratio Lower Upper

128 100

129 10.3 8.8 13.2

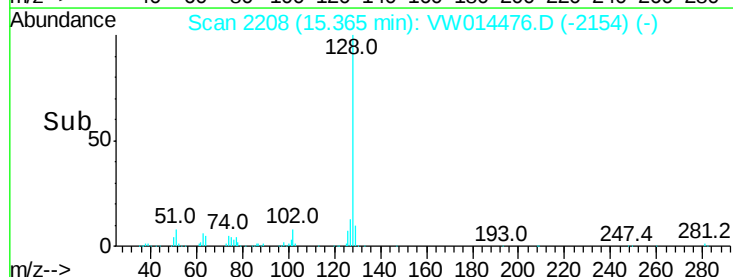
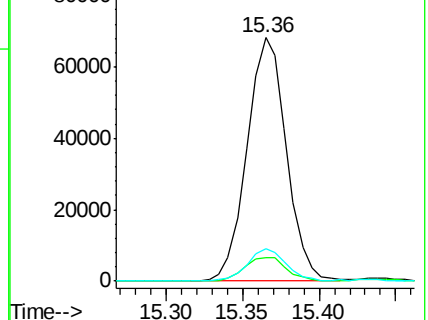
127 12.9 10.6 16.0

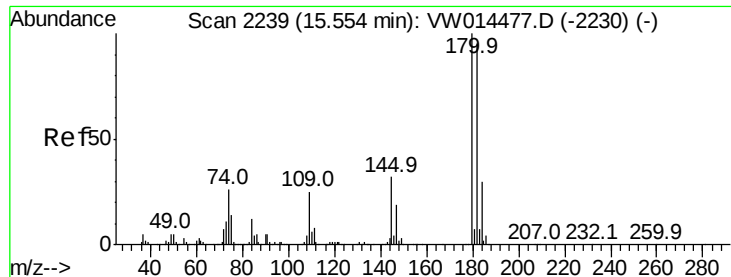


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#70

1,2,3-Trichlorobenzene

Concen: 4.212 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW014476.D

Acq: 27 Dec 2019 19:01

Instrument :

MSVOA_W

ClientSampleId :

VSTD00503

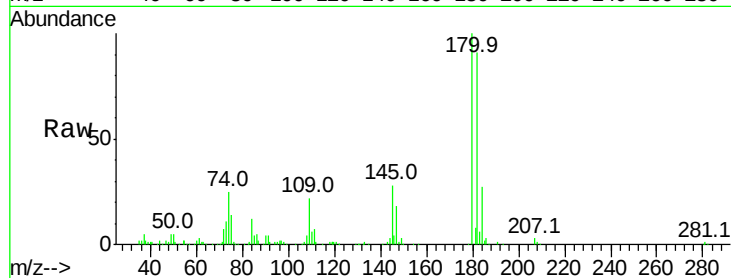
Tgt Ion:180 Resp: 76395

Ion Ratio Lower Upper

180 100

182 93.2 77.0 115.6

145 29.8 24.9 37.3



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

