

Data File : VW005515.D
Acq On : 19 Sep 2018 15:24
Operator : SY/AP
Sample : VSTD2.591
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.591

Quant Time: Sep 19 17:20:07 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091918S.M
Quant Title : VOC Analysis
QLast Update : Wed Sep 19 17:19:22 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	483072	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	454090	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	228251	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	4521	0.81	ug/L	0.00
7) Chloroethane-d5	2.89	69	9056	2.30	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.01	63	25062	2.52	ug/L	0.00
20) 2-Butanone-d5	7.09	46	6556	3.12	ug/L	0.00
24) Chloroform-d	7.65	84	23644	2.62	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	13848	2.40	ug/L	0.00
29) Benzene-d6	8.28	84	46310	2.54	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	14380	2.76	ug/L	0.00
37) Toluene-d8	10.33	98	41347	2.24	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.59	79	6022	2.31	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	4643	2.87	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.70	84	11801	2.17	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.86	152	15606	2.28	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	11199	1.125 ug/L	98
3) Chloromethane	2.21	50	17014	1.855 ug/L	99
5) Vinyl chloride	2.37	62	6912	0.791 ug/L	98
6) Bromomethane	2.78	94	10112	2.234 ug/L	98
8) Chloroethane	2.93	64	10197	2.198 ug/L	97
9) Trichlorofluoromethane	3.26	101	15349	1.349 ug/L	95
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	15879	2.555 ug/L	100
12) 1,1-Dichloroethene	4.03	96	14047	2.672 ug/L #	74
13) Acetone	4.14	43	14701	7.457 ug/L	91
14) Carbon disulfide	4.37	76	36920	1.789 ug/L	100
15) Methyl Acetate	4.68	43	8217	1.889 ug/L #	91
16) Methylene chloride	4.91	84	26653	2.905 ug/L	99
17) Methyl tert-butyl Ether	5.43	73	23302	1.597 ug/L #	75
18) trans-1,2-Dichloroethene	5.42	96	16148	2.751 ug/L	89
19) 1,1-Dichloroethane	6.21	63	32141	2.996 ug/L	96
21) 2-Butanone	7.18	43	15117	5.003 ug/L	96
22) cis-1,2-Dichloroethene	7.17	96	17761	2.835 ug/L	91
23) Bromochloromethane	7.52	128	7722	2.645 ug/L	94
25) Chloroform	7.68	83	32397	2.872 ug/L	97
27) 1,2-Dichloroethane	8.40	62	22843	2.609 ug/L	98
30) Cyclohexane	7.95	56	25830	2.519 ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	25660	2.485 ug/L	99
32) Carbon tetrachloride	8.07	117	23908	2.496 ug/L	99
34) Benzene	8.33	78	68605	2.712 ug/L	100
35) Trichloroethene	9.09	95	17587	2.619 ug/L	97
36) Methylcyclohexane	9.34	83	30057	2.579 ug/L	96
40) 1,2-Dichloropropane	9.37	63	18002	2.882 ug/L #	97
41) Bromodichloromethane	9.65	83	21182	2.646 ug/L	95
42) cis-1,3-Dichloropropene	10.08	75	24498	2.656 ug/L	98
43) 4-Methyl-2-pentanone	10.22	43	24199	4.053 ug/L	98

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Quant Title : VOC Analysis
QLast Update : Wed Sep 19 17:19:22 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.39	91	68955	2.379	ug/L	96
45) trans-1,3-Dichloropropene	10.61	75	21769	2.519	ug/L	96
46) 1,1,2-Trichloroethane	10.79	97	13064	2.665	ug/L	97
47) Tetrachloroethene	10.87	164	14768	2.429	ug/L	95
49) 2-Hexanone	10.98	43	16304	3.714	ug/L	99
50) Dibromochloromethane	11.13	129	15076	2.574	ug/L	97
51) 1,2-Dibromoethane	11.24	107	12229	2.542	ug/L	99
52) Chlorobenzene	11.66	112	48356	2.557	ug/L	100
53) Ethylbenzene	11.74	91	81404	2.415	ug/L	99
54) m,p-Xylene	11.85	106	29597	2.345	ug/L	99
55) o-xylene	12.17	106	27517	2.321	ug/L	95
56) Styrene	12.19	104	46174	2.257	ug/L	96
57) Isopropylbenzene	12.47	105	76382	2.320	ug/L	98
58) 1,1,2,2-Tetrachloroethane	12.72	83	16768	2.488	ug/L #	95
59) 1,2,3-Trichloropropane	12.77	75	12865	2.233	ug/L	94
62) Bromoform	12.35	173	8953	2.341	ug/L	99
63) 1,3-Dichlorobenzene	13.51	146	36900	2.542	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	39630	2.646	ug/L	98
65) 1,2-Dichlorobenzene	13.88	146	34744	2.501	ug/L	95
66) 1,2-Dibromo-3-chloropropan	14.49	75	3215	2.132	ug/L	90
67) 1,3,5-Trichlorobenzene	14.64	180	29456	2.563	ug/L	99
68) 1,2,4-trichlorobenzene	15.15	180	24171	2.545	ug/L	100
69) Naphthalene	15.38	128	43094	2.071	ug/L	100
70) 1,2,3-Trichlorobenzene	15.57	180	21579	2.417	ug/L	99

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

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```
ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_W
ClientSampleId :
VSTD2.591

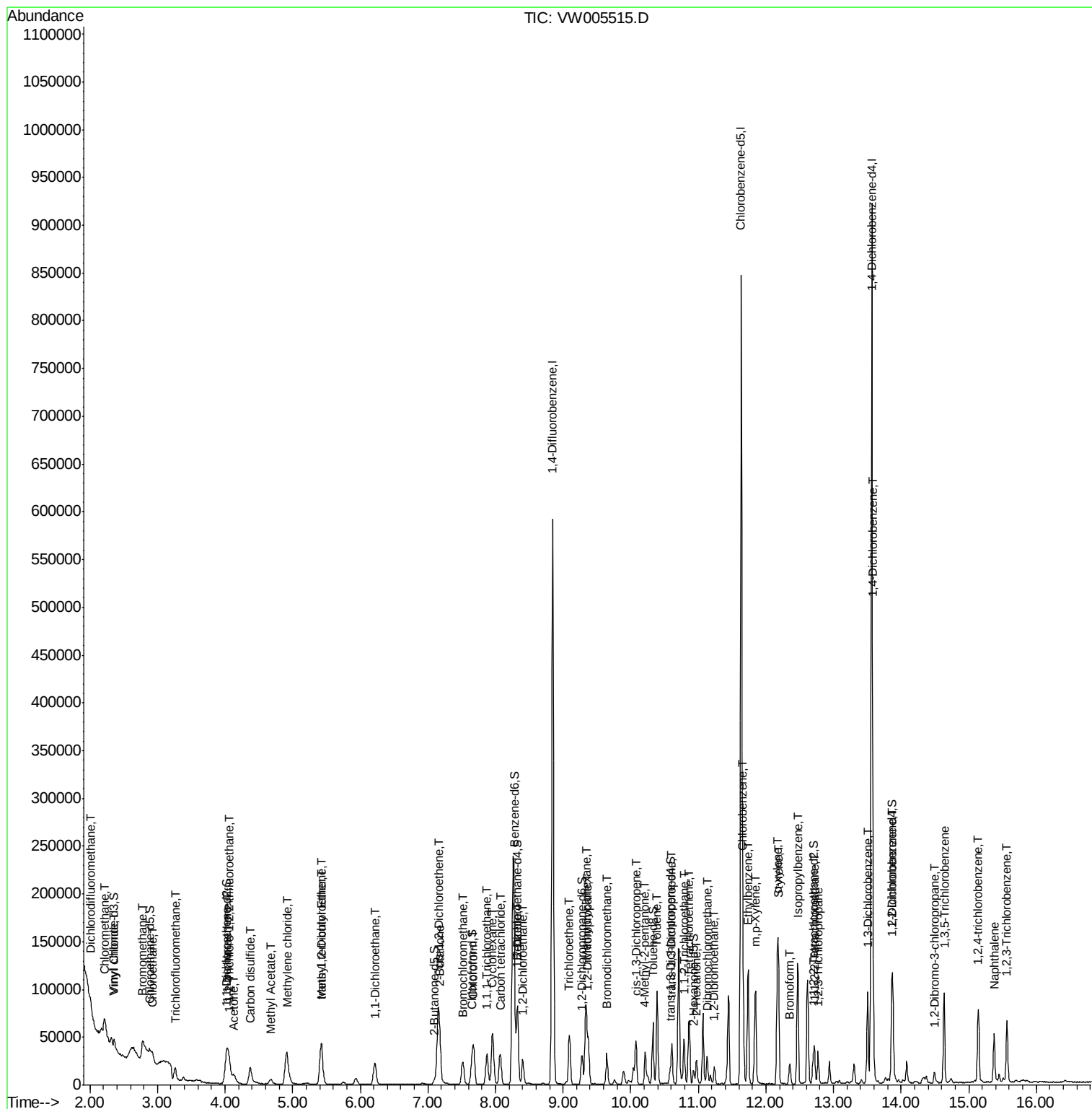
Quant Time: Sep 19 17:20:07 2018

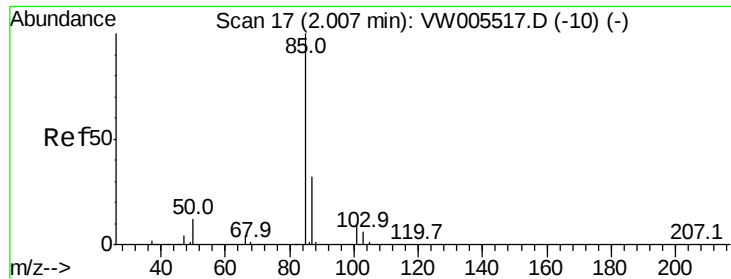
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091918S.M

Quant Title : VOC Analysis

QLast Update : Wed Sep 19 17:19:22 2018

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.125 ug/L

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

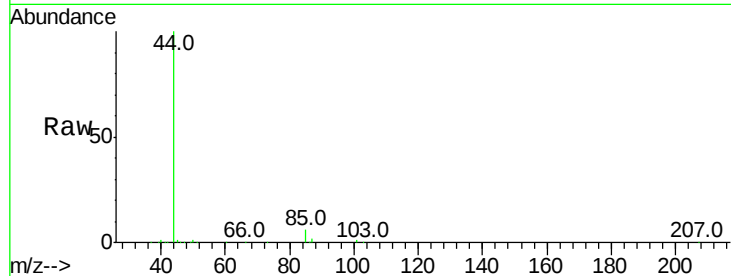
VSTD2.591

Tgt Ion: 85 Resp: 11199

Ion Ratio Lower Upper

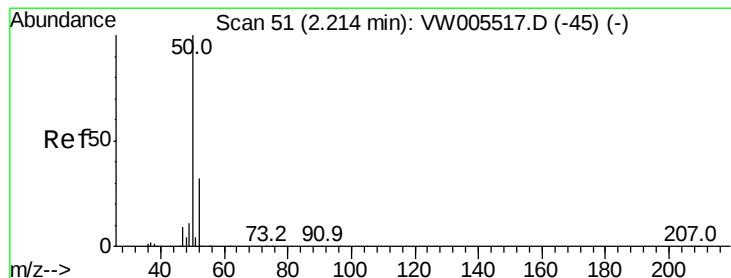
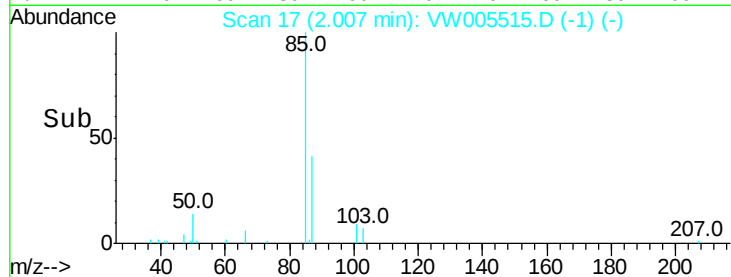
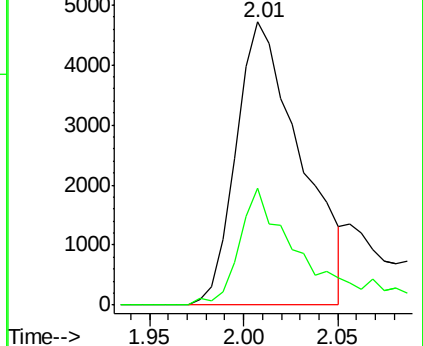
85 100

87 31.1 21.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 1.855 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW005515.D

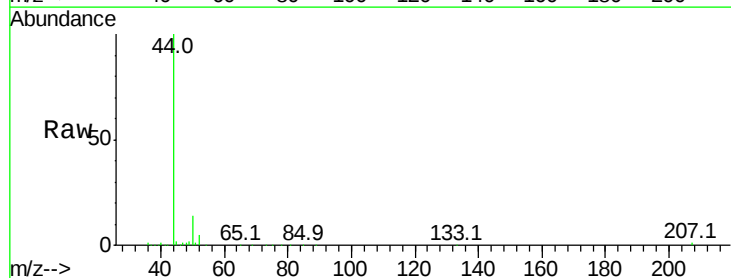
Acq: 19 Sep 2018 15:24

Tgt Ion: 50 Resp: 17014

Ion Ratio Lower Upper

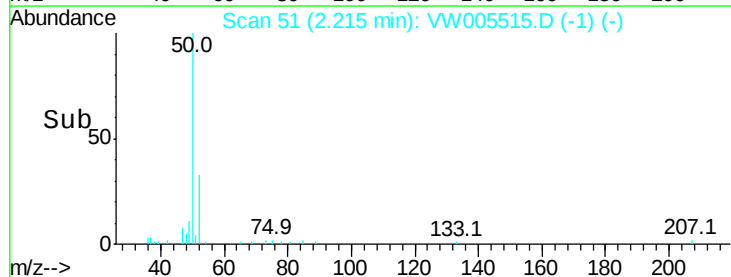
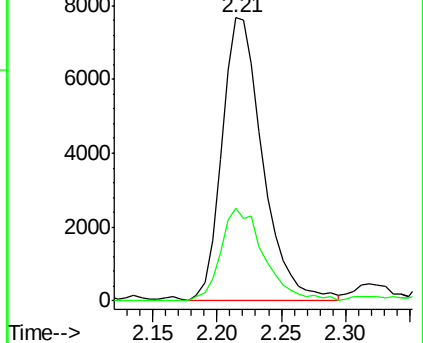
50 100

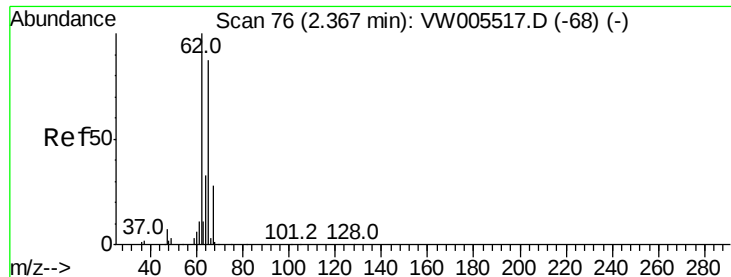
52 32.8 22.4 41.6



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 0.791 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

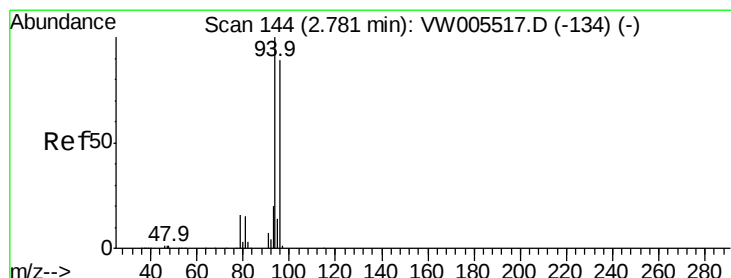
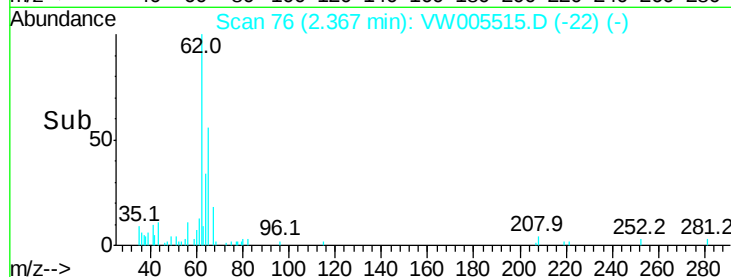
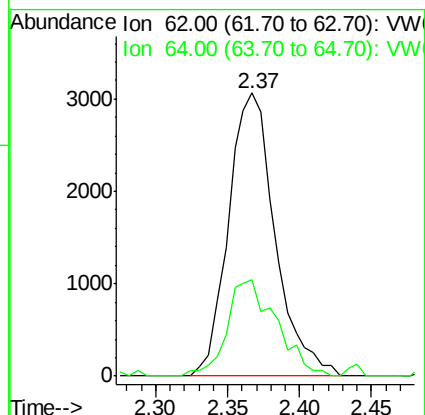
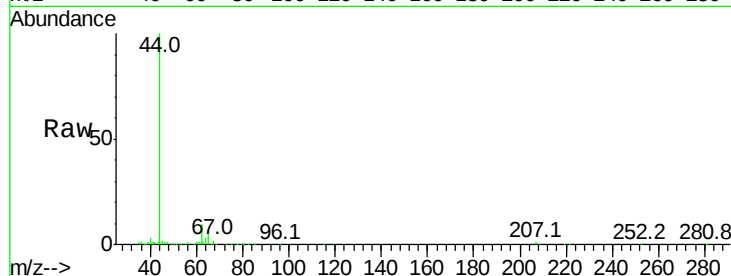
VSTD2.591

Tgt Ion: 62 Resp: 6912

Ion Ratio Lower Upper

62 100

64 34.0 22.9 42.5



#6

Bromomethane

Concen: 2.234 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW005515.D

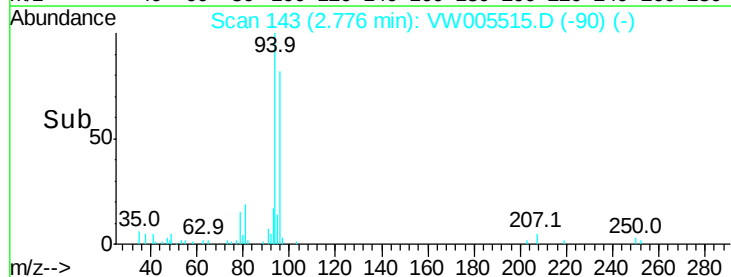
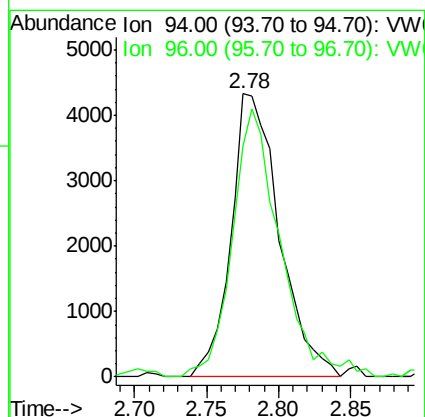
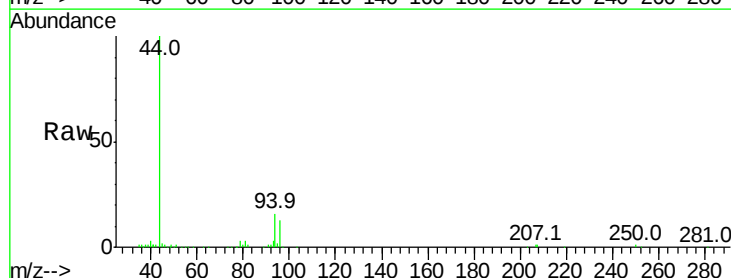
Acq: 19 Sep 2018 15:24

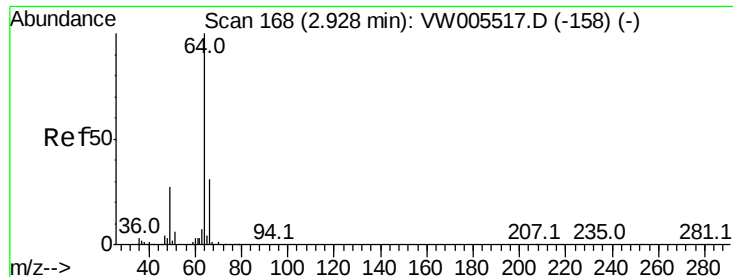
Tgt Ion: 94 Resp: 10112

Ion Ratio Lower Upper

94 100

96 92.1 9.4 178.6





#8

Chloroethane

Concen: 2.198 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

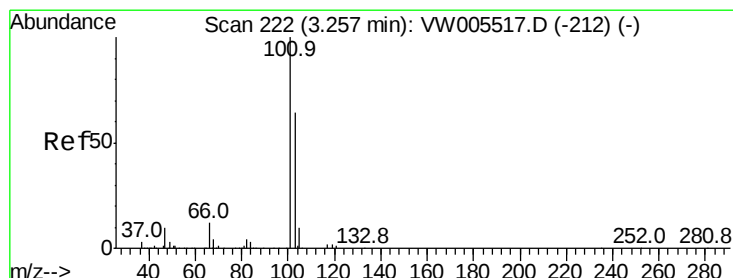
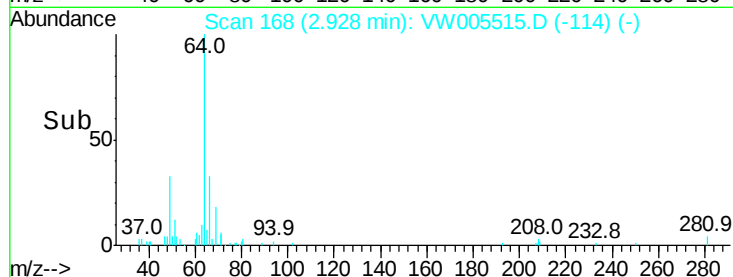
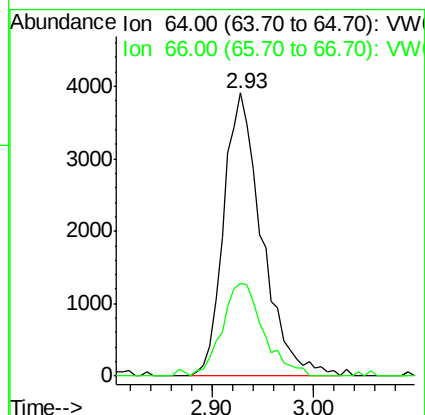
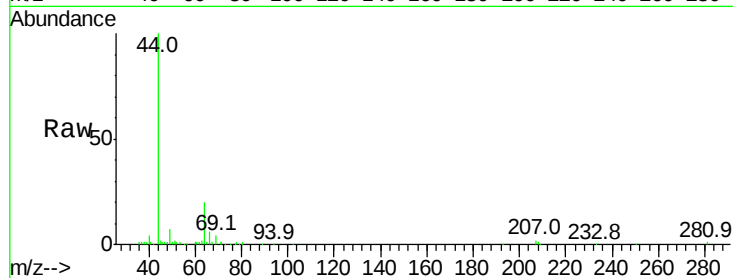
VSTD2.591

Tgt Ion: 64 Resp: 10197

Ion Ratio Lower Upper

64 100

66 32.6 21.5 39.9



#9

Trichlorofluoromethane

Concen: 1.349 ug/L

RT: 3.26 min Scan# 223

Delta R.T. 0.01 min

Lab File: VW005515.D

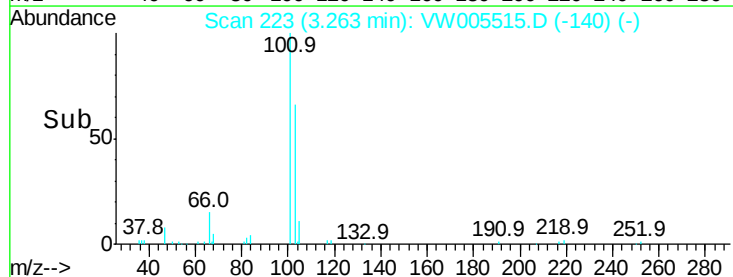
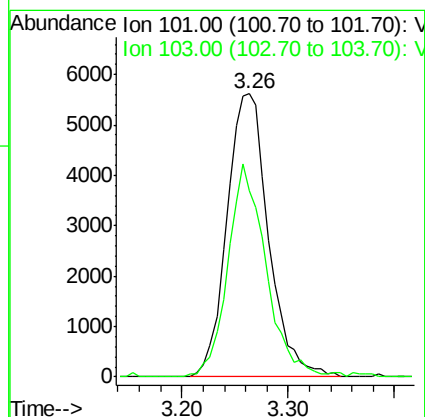
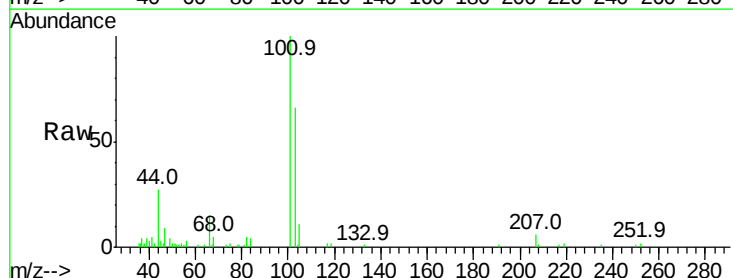
Acq: 19 Sep 2018 15:24

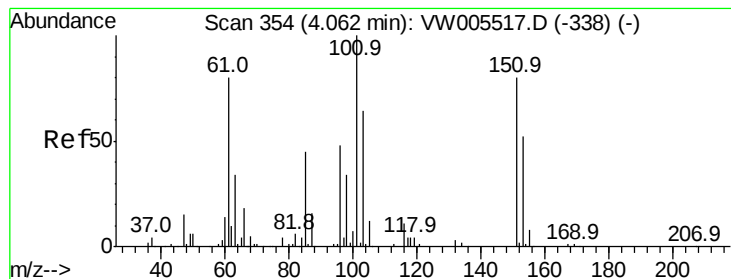
Tgt Ion: 101 Resp: 15349

Ion Ratio Lower Upper

101 100

103 68.7 45.3 84.1





#11

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

Concen: 2.555 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.01 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.591

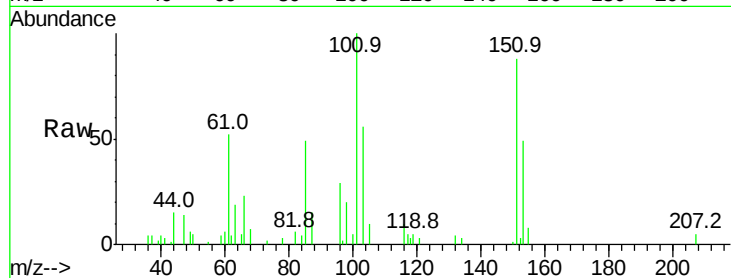
Tgt Ion:101 Resp: 15879

Ion Ratio Lower Upper

101 100

85 43.3 34.7 52.1

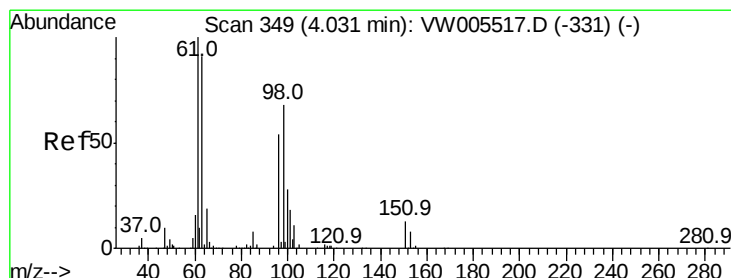
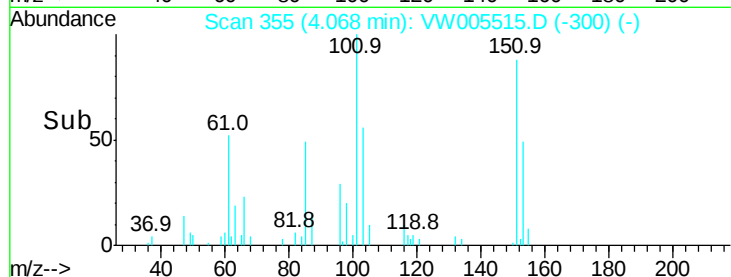
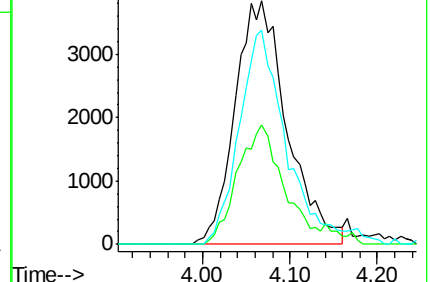
151 76.4 61.1 91.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.672 ug/L

RT: 4.03 min Scan# 349

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

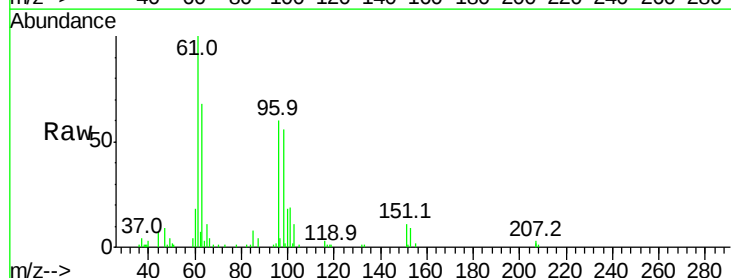
Tgt Ion: 96 Resp: 14047

Ion Ratio Lower Upper

96 100

61 165.8 129.5 240.5

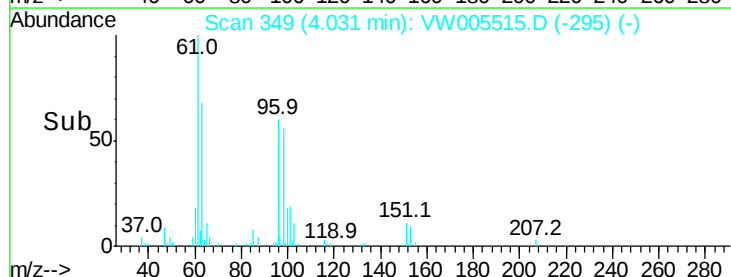
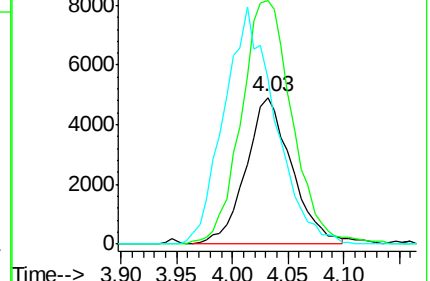
63 113.0 117.5 218.3#

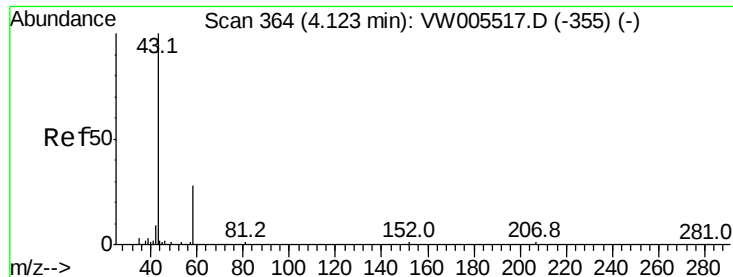


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 7.457 ug/L

RT: 4.14 min Scan# 367

Delta R.T. 0.02 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

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ClientSampleId :

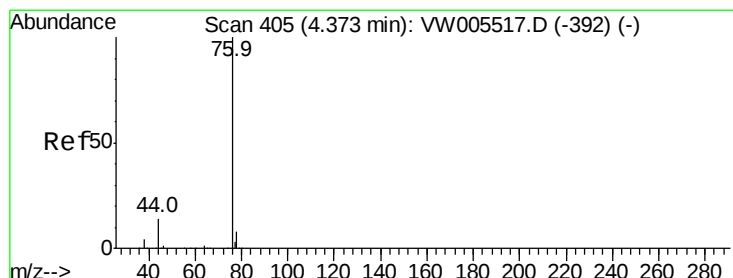
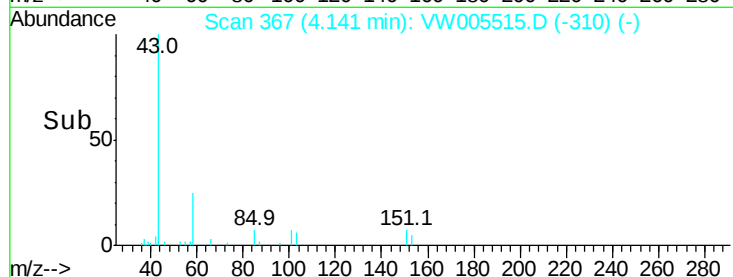
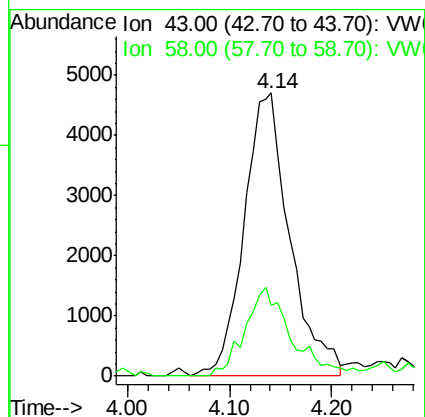
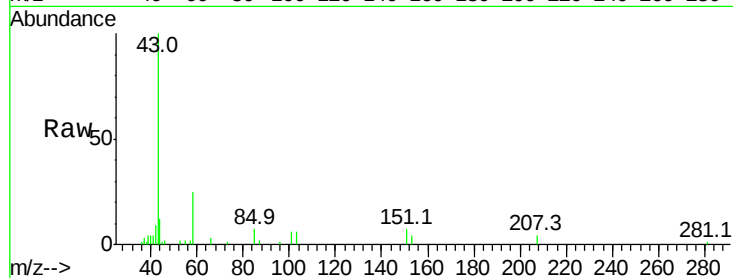
VSTD2.591

Tgt Ion: 43 Resp: 14701

Ion Ratio Lower Upper

43 100

58 24.6 0.0 59.2



#14

Carbon disulfide

Concen: 1.789 ug/L

RT: 4.37 min Scan# 404

Delta R.T. -0.01 min

Lab File: VW005515.D

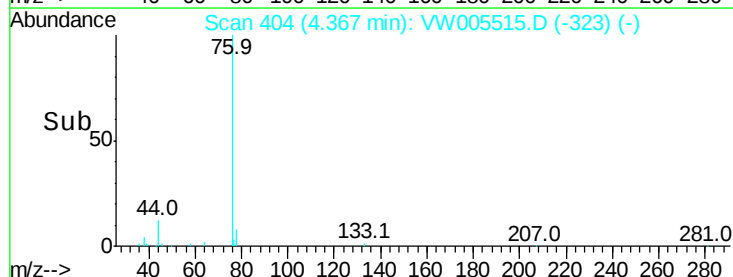
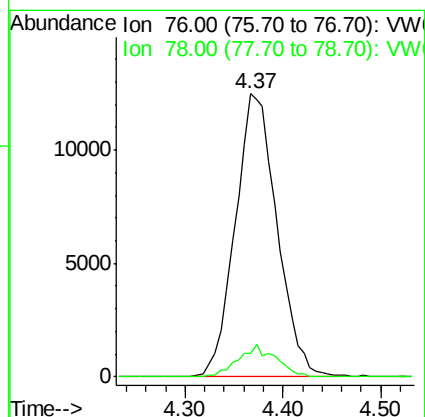
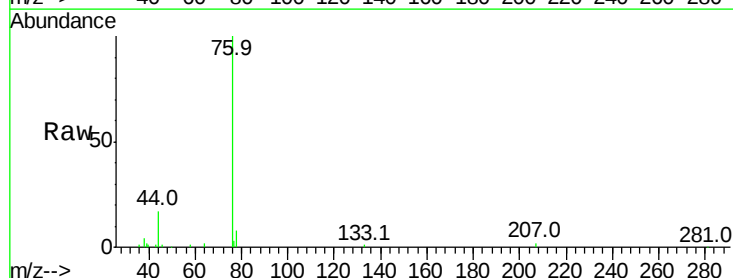
Acq: 19 Sep 2018 15:24

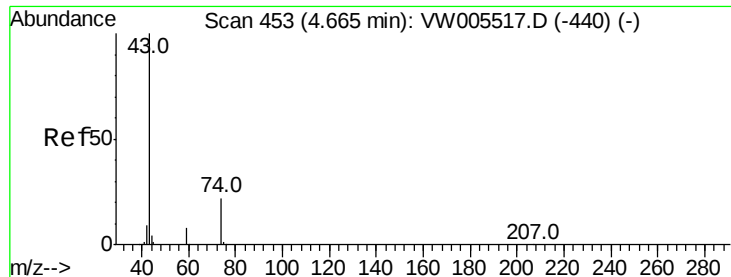
Tgt Ion: 76 Resp: 36920

Ion Ratio Lower Upper

76 100

78 8.5 6.7 10.1

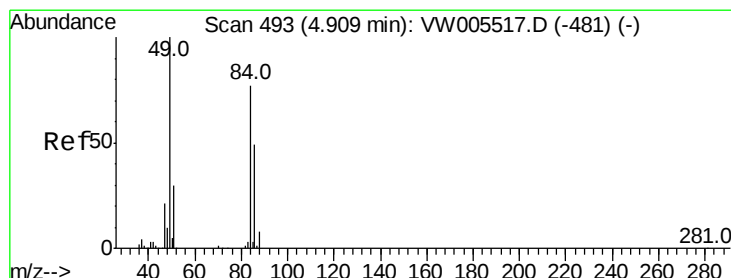
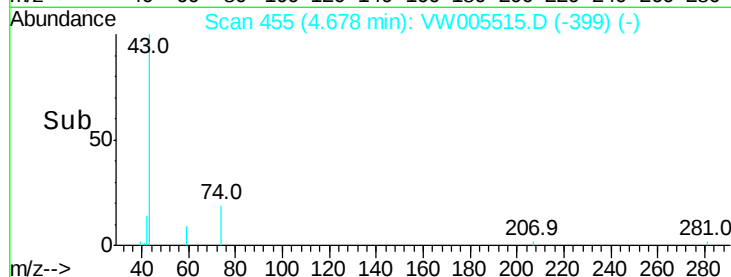
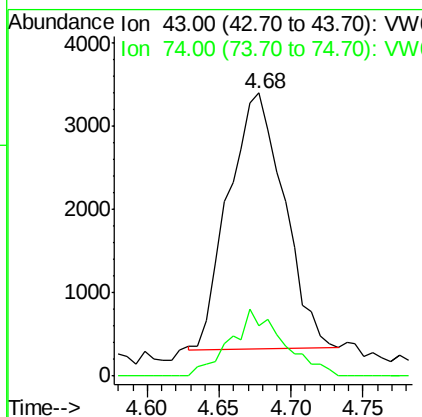
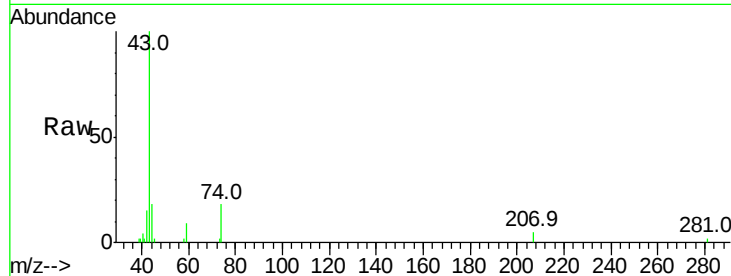




#15
Methyl Acetate
Concen: 1.889 ug/L
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW005515.D
Acq: 19 Sep 2018 15:24

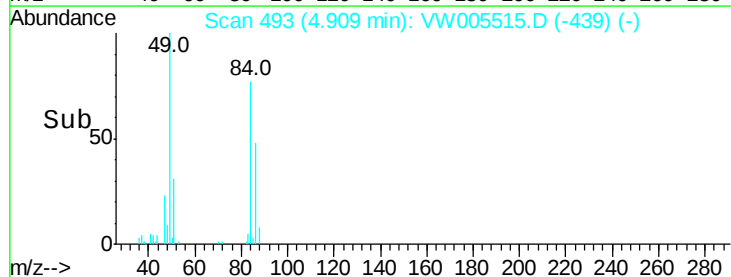
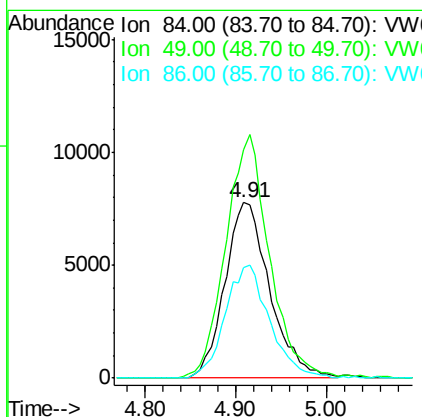
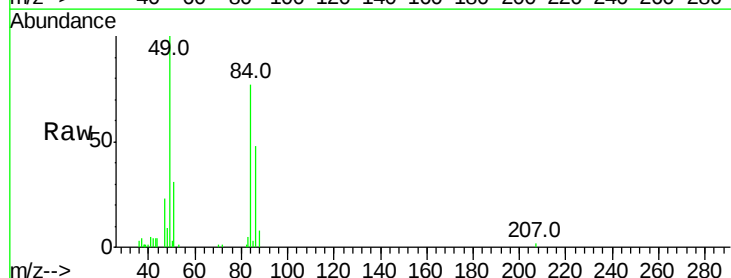
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.591

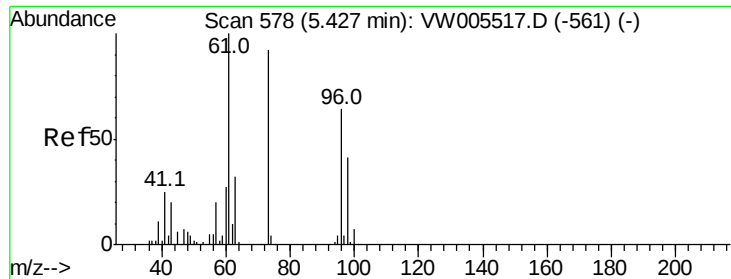
Tgt Ion: 43 Resp: 8217
Ion Ratio Lower Upper
43 100
74 17.2 17.3 25.9#



#16
Methylene chloride
Concen: 2.905 ug/L
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW005515.D
Acq: 19 Sep 2018 15:24

Tgt Ion: 84 Resp: 26653
Ion Ratio Lower Upper
84 100
49 130.0 91.5 169.9
86 62.8 44.8 83.2





#17

Methyl tert-butyl Ether

Concen: 1.597 ug/L

RT: 5.43 min Scan# 578

Delta R.T. 0.00 min

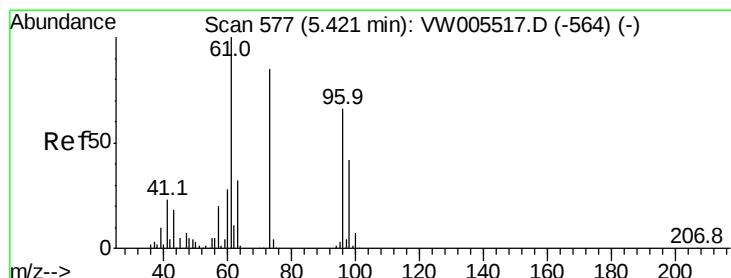
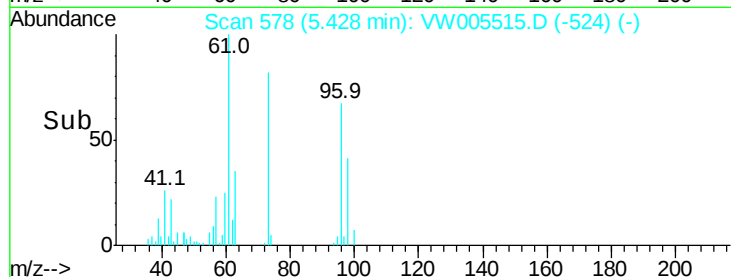
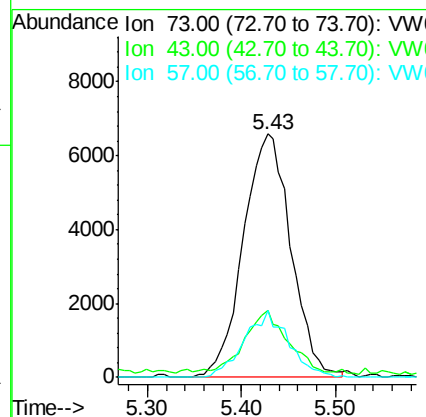
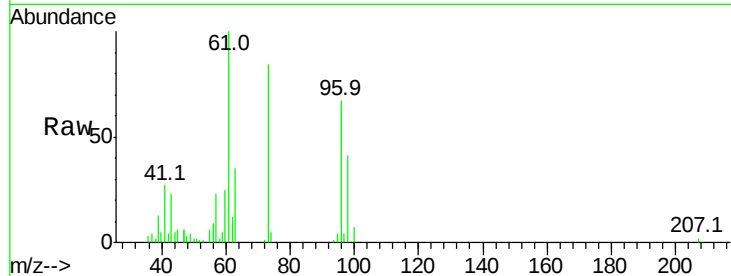
Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.591

Tgt Ion: 73 Resp: 23302

Ion	Ratio	Lower	Upper
73	100		
43	23.8	17.6	26.4
57	1.5	18.4	27.6#



#18

trans-1,2-Dichloroethene

Concen: 2.751 ug/L

RT: 5.42 min Scan# 577

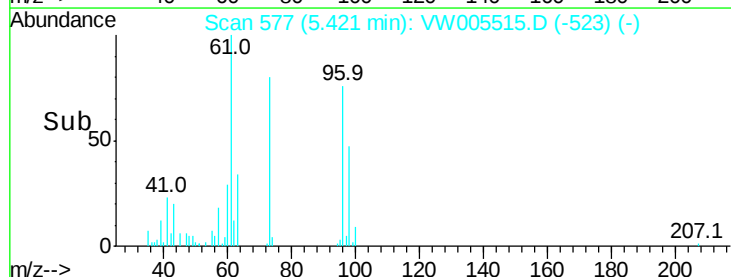
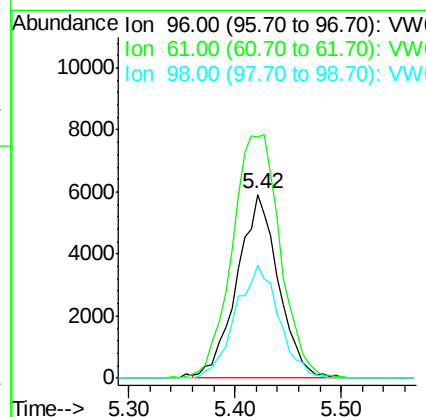
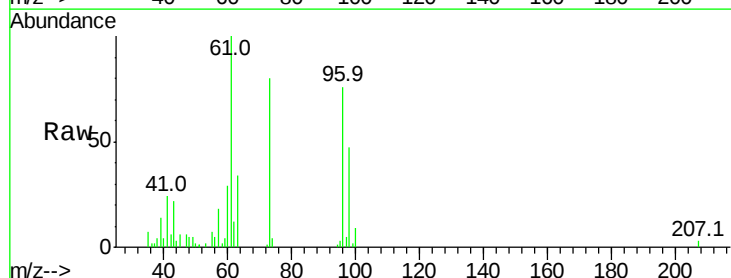
Delta R.T. 0.00 min

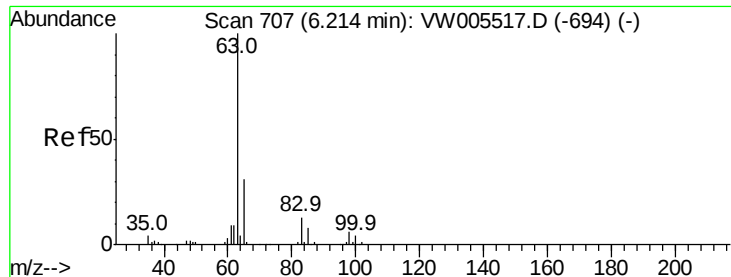
Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Tgt Ion: 96 Resp: 16148

Ion	Ratio	Lower	Upper
96	100		
61	131.1	105.4	195.8
98	61.7	44.1	81.9





#19

1,1-Dichloroethane

Concen: 2.996 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.591

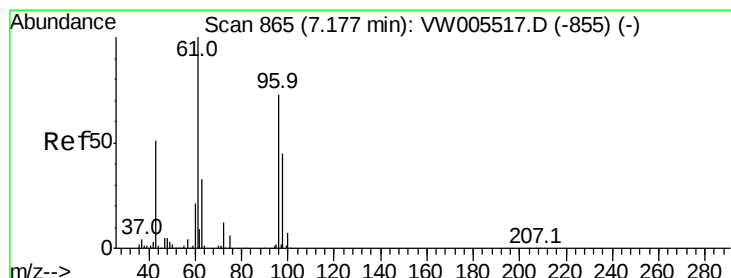
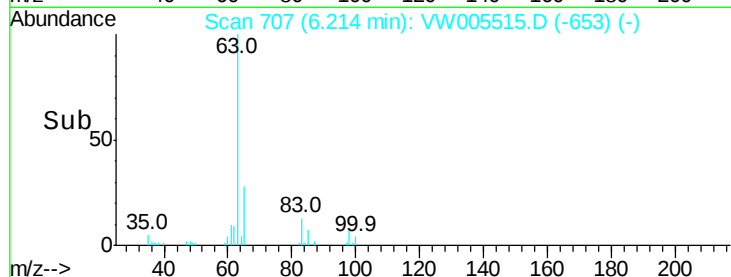
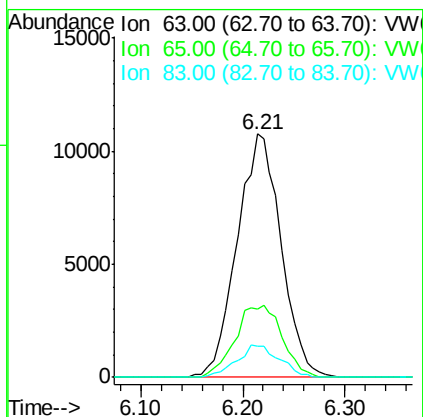
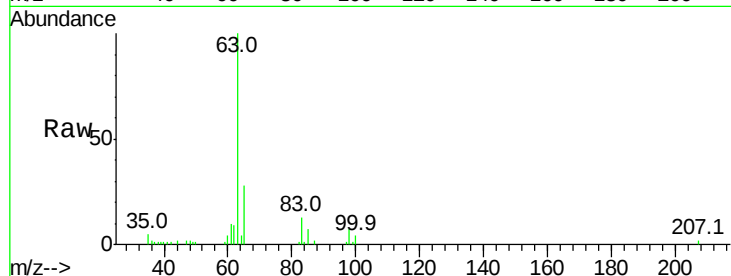
Tgt Ion: 63 Resp: 32141

Ion Ratio Lower Upper

63 100

65 27.8 21.4 39.8

83 13.0 8.9 16.5



#21

2-Butanone

Concen: 5.003 ug/L

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW005515.D

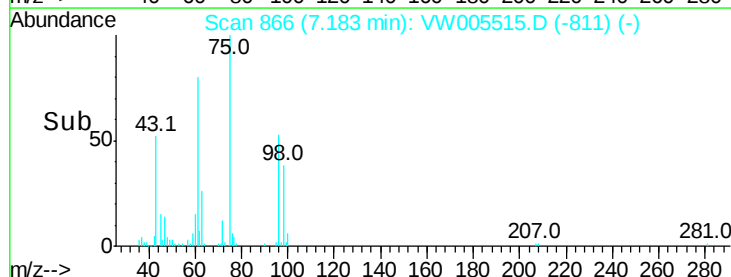
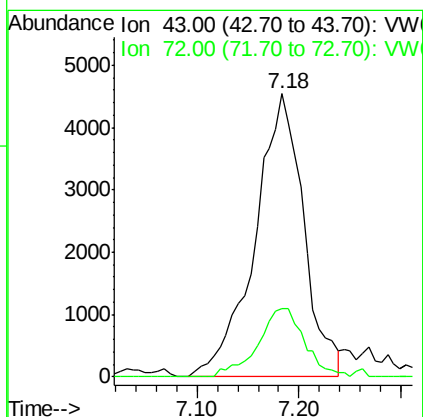
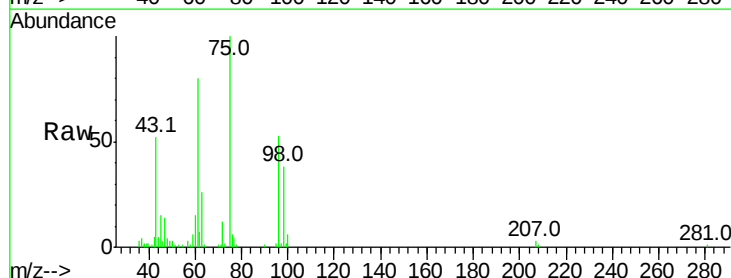
Acq: 19 Sep 2018 15:24

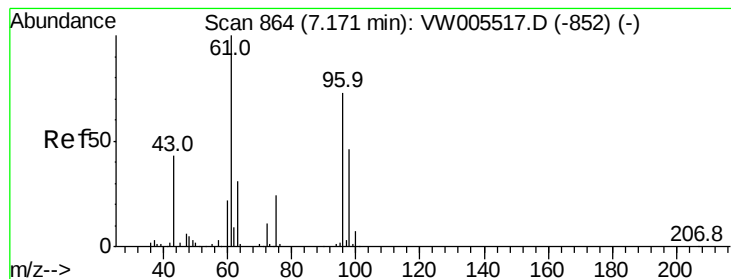
Tgt Ion: 43 Resp: 15117

Ion Ratio Lower Upper

43 100

72 23.1 12.6 37.6



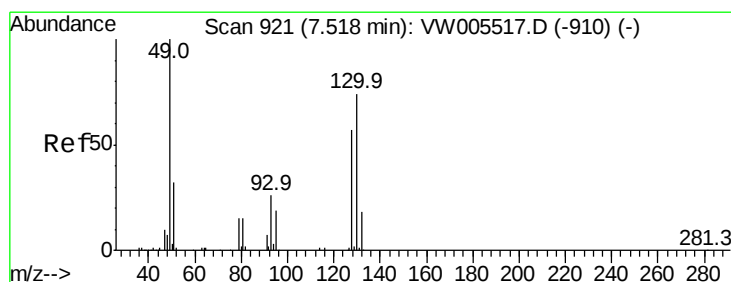
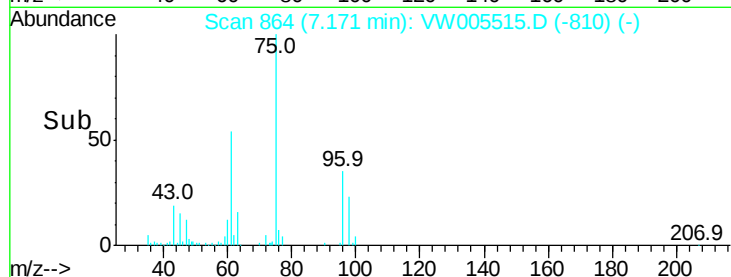
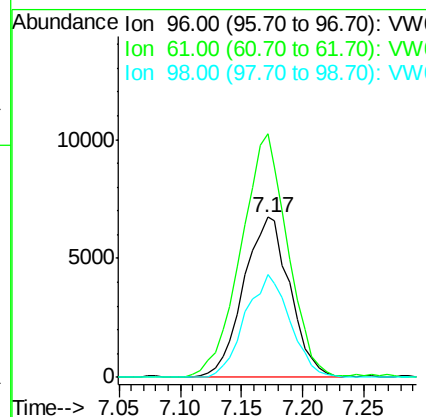
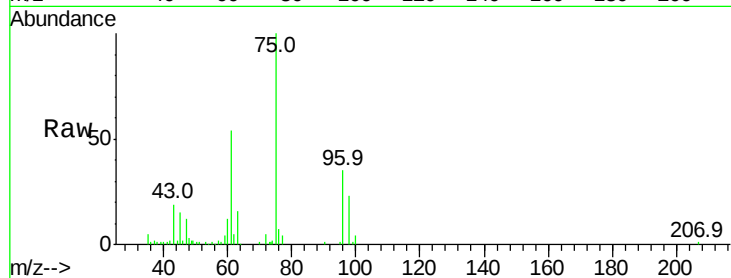


#22

cis-1,2-Dichloroethene
Concen: 2.835 ug/L
RT: 7.17 min Scan# 864
Delta R.T. 0.00 min
Lab File: VW005515.D
Acq: 19 Sep 2018 15:24

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.591

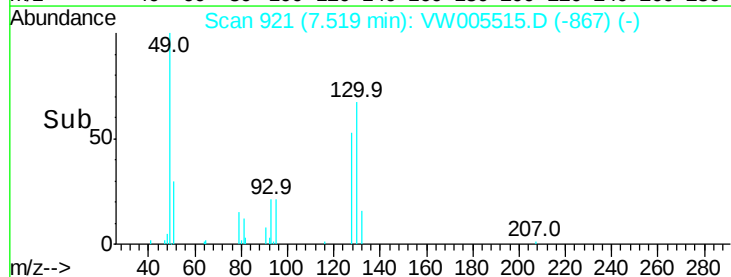
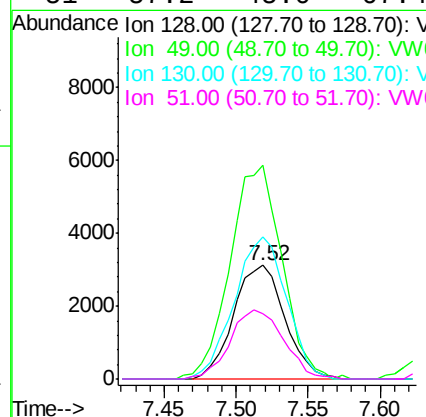
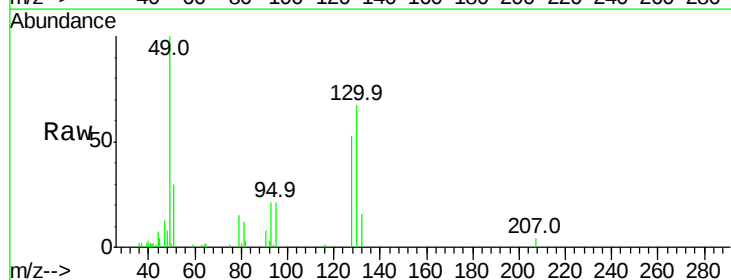
Tgt Ion: 96 Resp: 17761
Ion Ratio Lower Upper
96 100
61 151.9 96.5 179.1
98 64.2 44.1 81.9

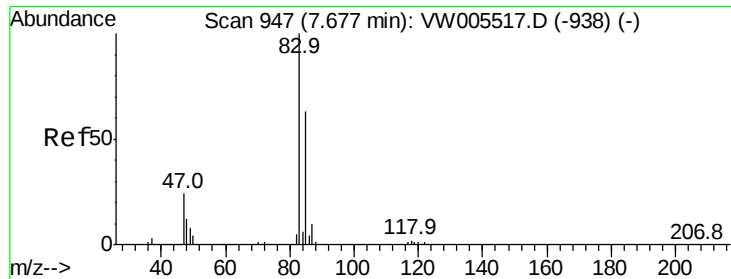


#23

Bromochloromethane
Concen: 2.645 ug/L
RT: 7.52 min Scan# 921
Delta R.T. 0.00 min
Lab File: VW005515.D
Acq: 19 Sep 2018 15:24

Tgt Ion: 128 Resp: 7722
Ion Ratio Lower Upper
128 100
49 187.7 122.0 226.6
130 125.2 89.9 167.0
51 57.2 45.0 67.4





#25

Chloroform

Concen: 2.872 ug/L

RT: 7.68 min Scan# 947

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

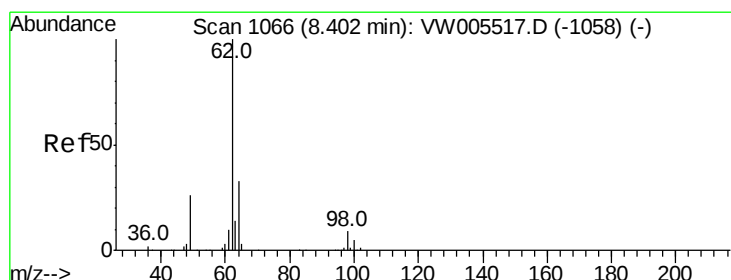
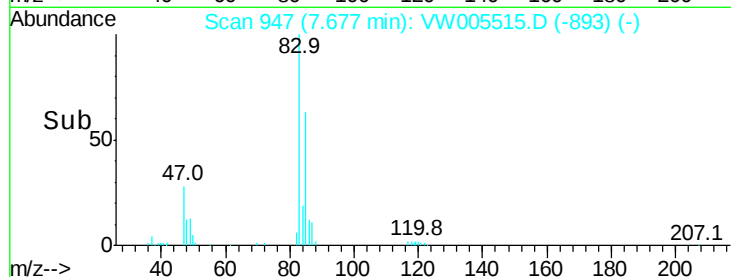
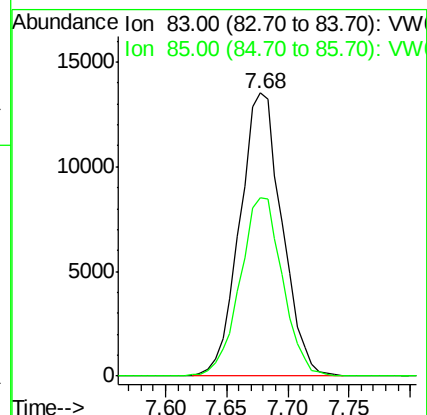
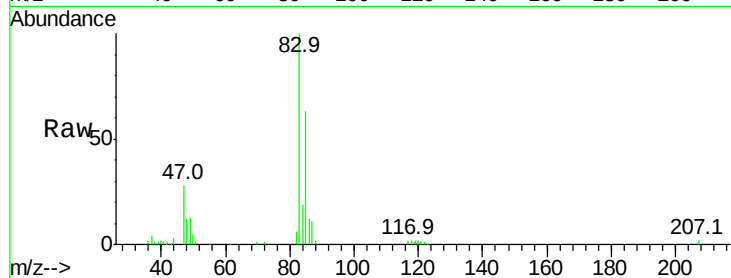
VSTD2.591

Tgt Ion: 83 Resp: 32397

Ion Ratio Lower Upper

83 100

85 63.4 46.0 85.4



#27

1,2-Dichloroethane

Concen: 2.609 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VW005515.D

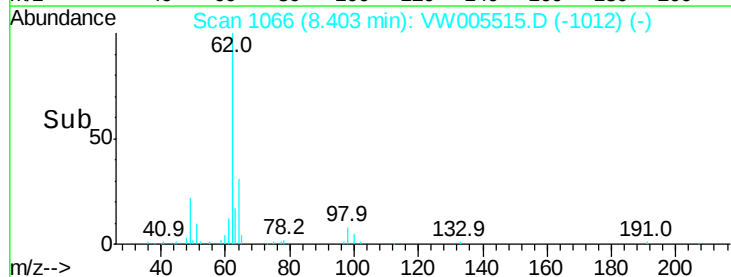
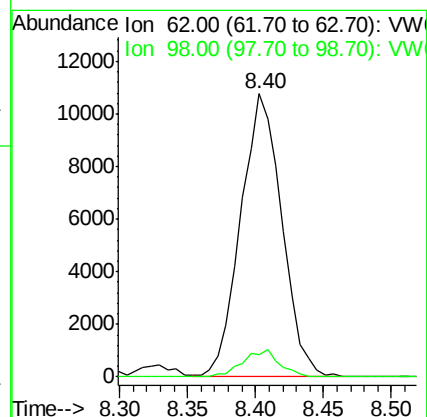
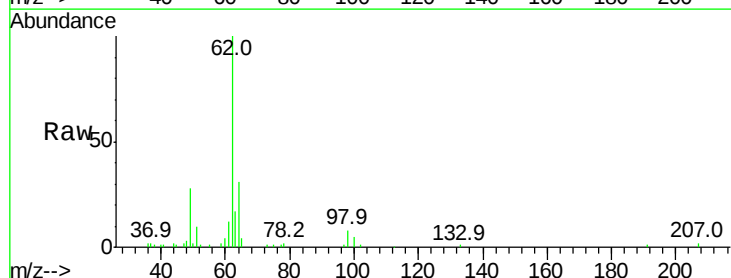
Acq: 19 Sep 2018 15:24

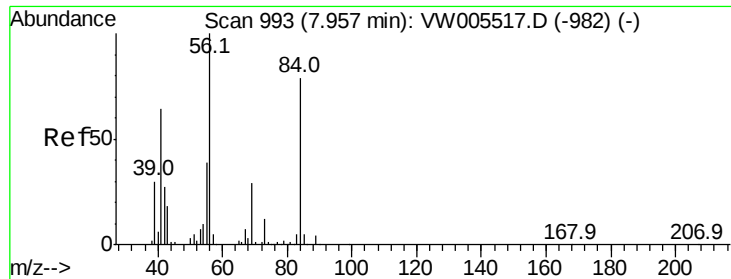
Tgt Ion: 62 Resp: 22843

Ion Ratio Lower Upper

62 100

98 7.8 6.8 10.2

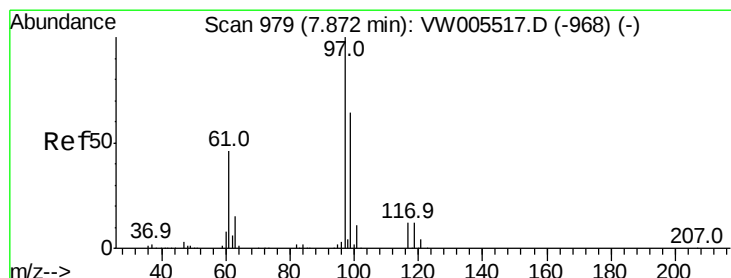
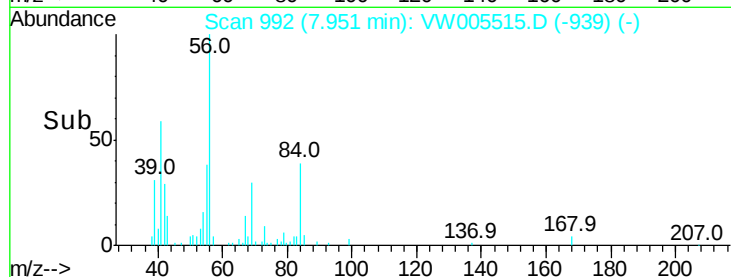
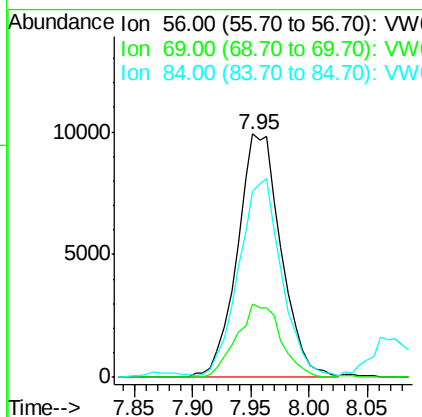
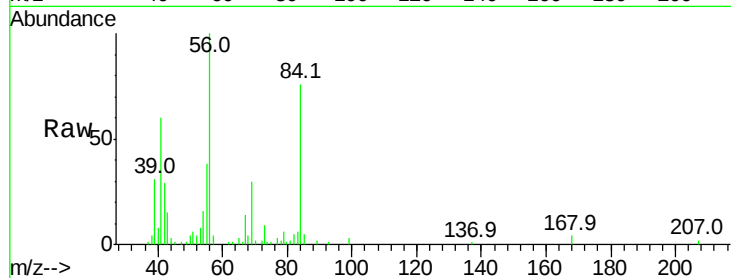




#30
Cyclohexane
Concen: 2.519 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW005515.D
Acq: 19 Sep 2018 15:24

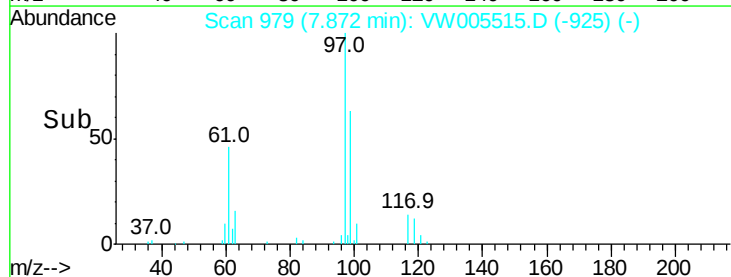
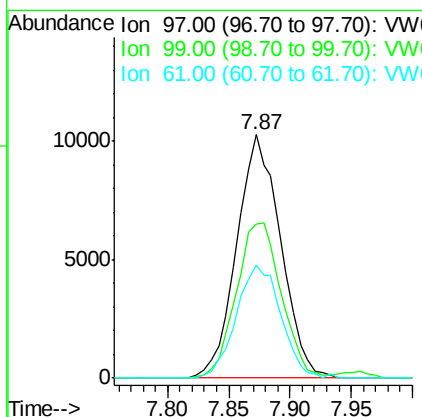
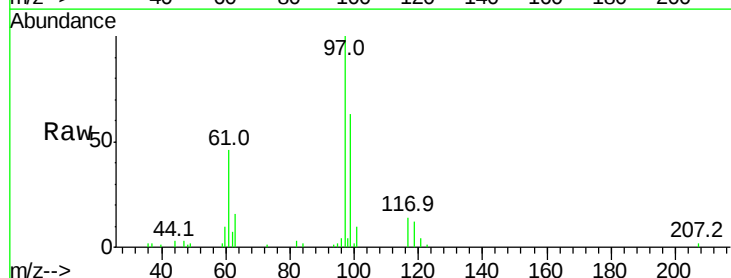
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.591

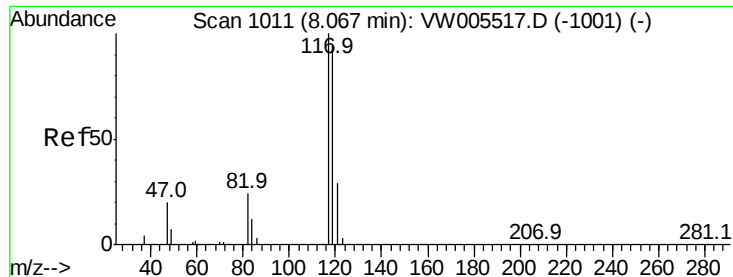
Tgt Ion: 56 Resp: 25830
Ion Ratio Lower Upper
56 100
69 30.4 23.6 35.4
84 80.4 64.6 96.8



#31
1,1,1-Trichloroethane
Concen: 2.485 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW005515.D
Acq: 19 Sep 2018 15:24

Tgt Ion: 97 Resp: 25660
Ion Ratio Lower Upper
97 100
99 65.7 51.7 77.5
61 46.8 37.0 55.4





#32

Carbon tetrachloride

Concen: 2.496 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

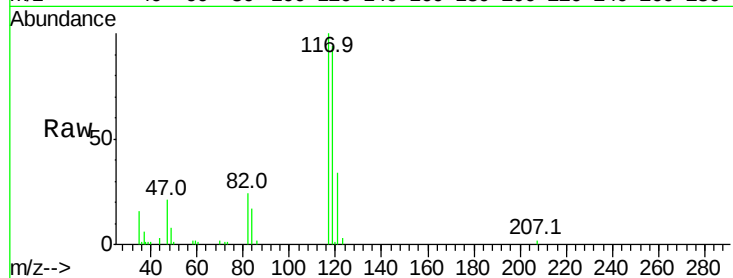
VSTD2.591

Tgt Ion:117 Resp: 23908

Ion Ratio Lower Upper

117 100

119 96.6 76.2 114.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

10000

8000

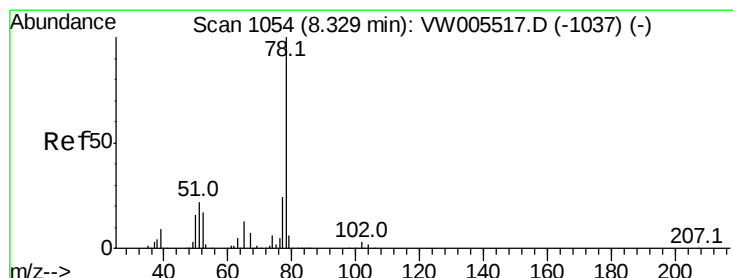
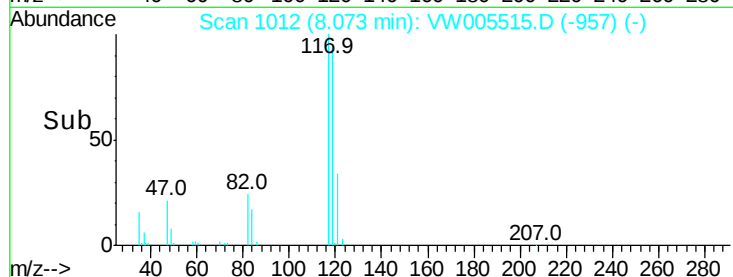
6000

4000

2000

0

Time--> 8.00 8.05 8.10 8.15



#34

Benzene

Concen: 2.712 ug/L

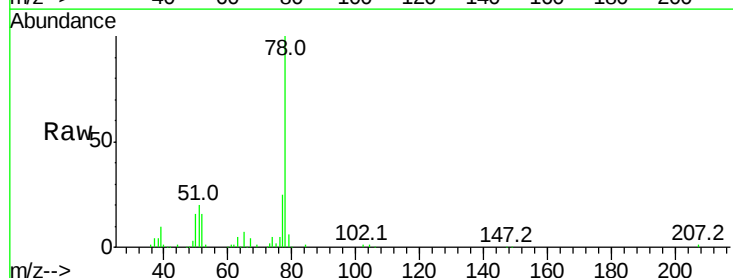
RT: 8.33 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Tgt Ion: 78 Resp: 68605



Abundance Ion 78.00 (77.70 to 78.70): VW

8.33

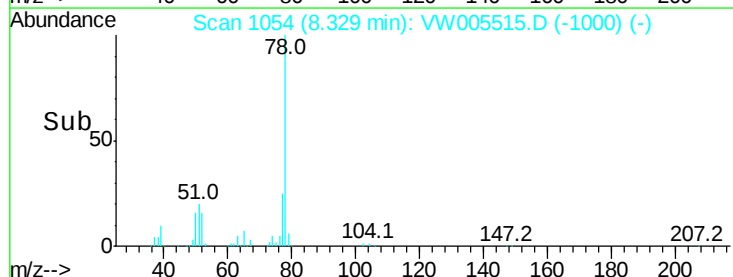
30000

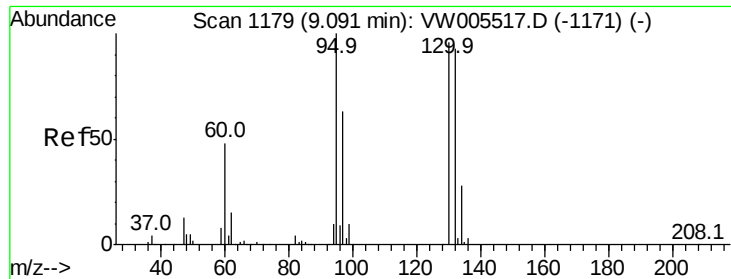
20000

10000

0

Time--> 8.25 8.30 8.35 8.40





#35

Trichloroethene

Concen: 2.619 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.591

Tgt Ion: 95 Resp: 17587

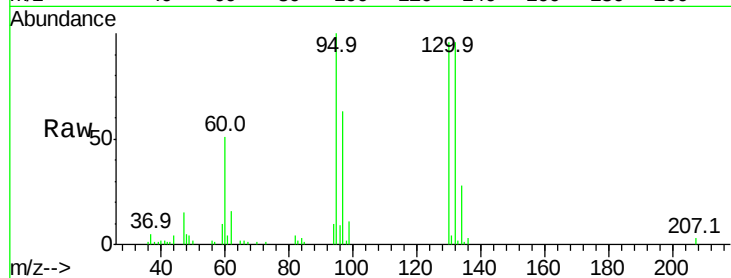
Ion Ratio Lower Upper

95 100

97 65.1 45.0 83.6

132 99.8 66.4 123.2

130 100.6 68.6 127.4

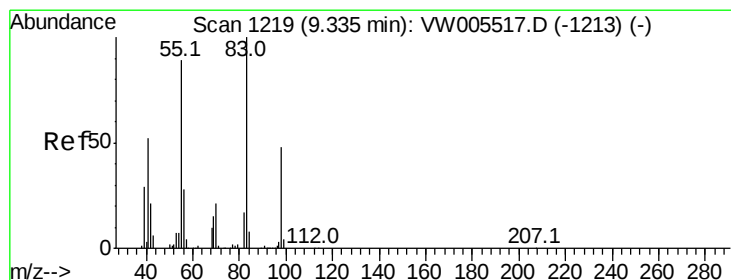
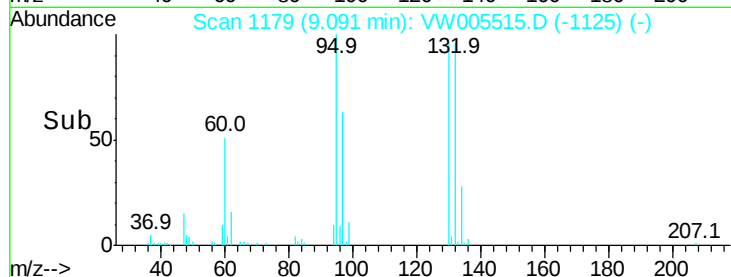
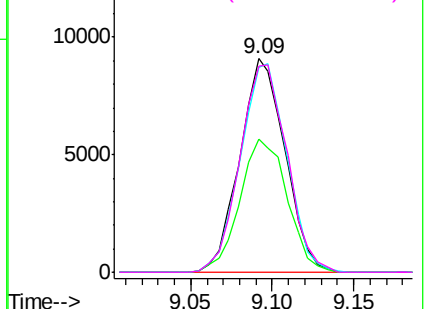


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 2.579 ug/L

RT: 9.34 min Scan# 1220

Delta R.T. 0.01 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

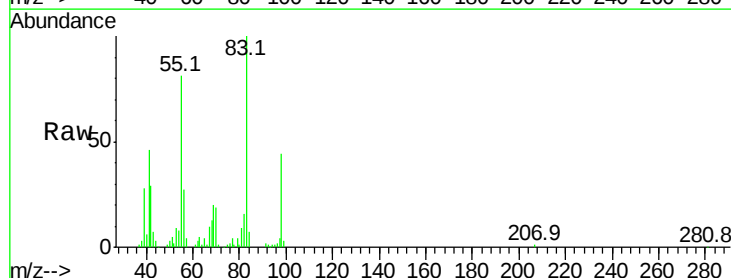
Tgt Ion: 83 Resp: 30057

Ion Ratio Lower Upper

83 100

55 87.1 66.4 99.6

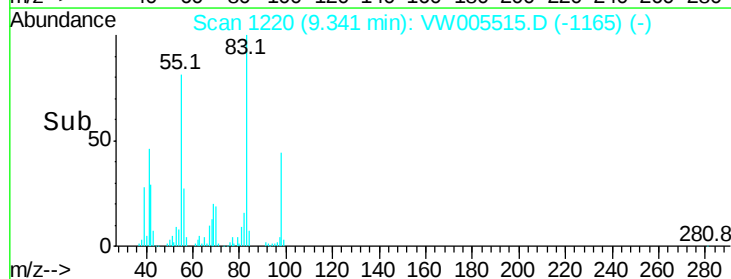
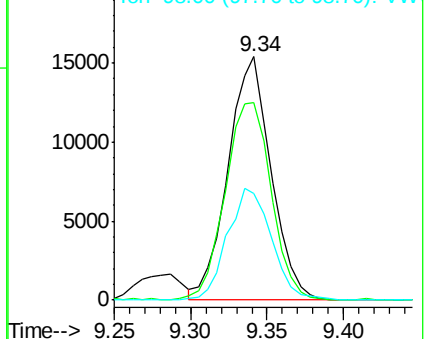
98 46.8 36.3 54.5

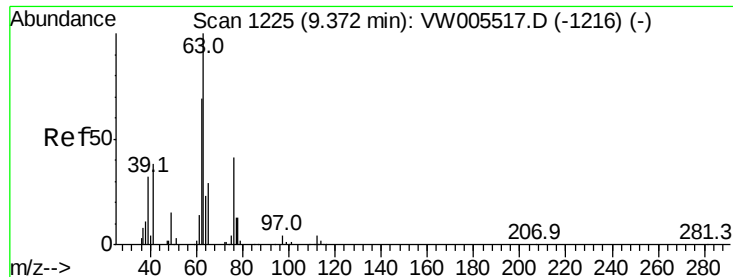


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

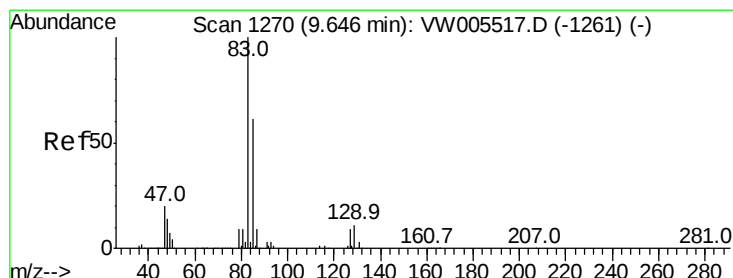
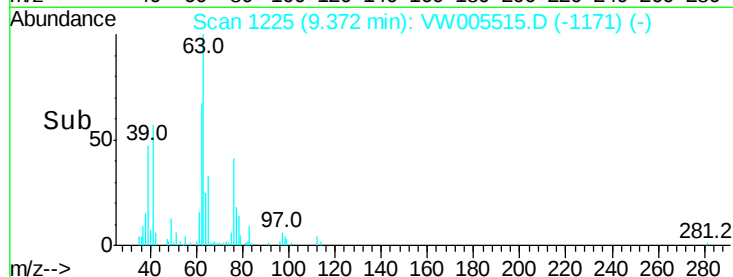
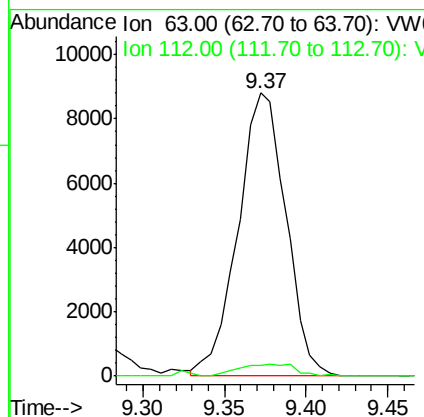
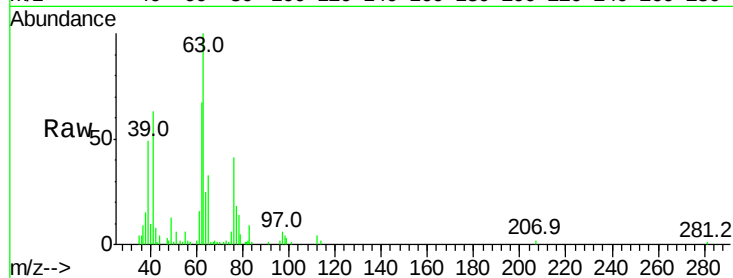




#40
 1,2-Dichloropropane
 Concen: 2.882 ug/L
 RT: 9.37 min Scan# 1225
 Delta R.T. 0.00 min
 Lab File: VW005515.D
 Acq: 19 Sep 2018 15:24

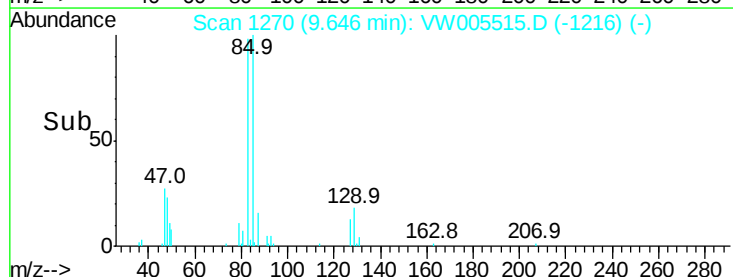
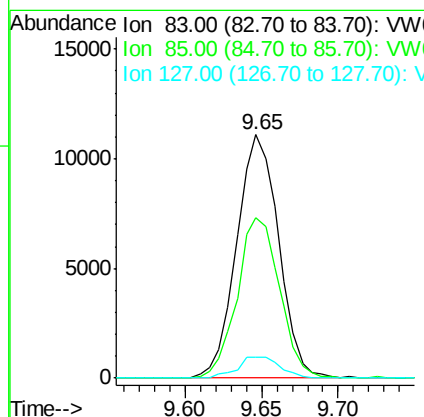
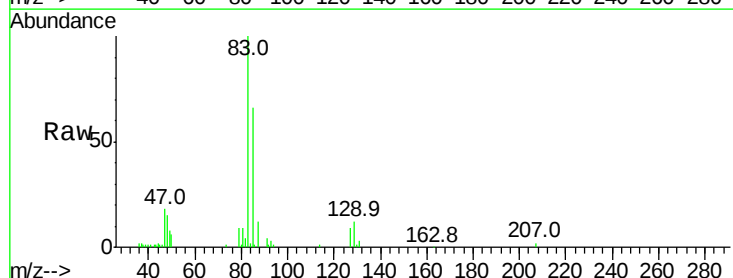
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.591

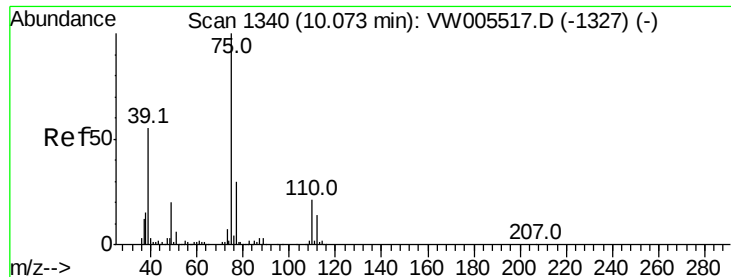
Tgt Ion: 63 Resp: 18002
 Ion Ratio Lower Upper
 63 100
 112 5.1 3.2 4.8#



#41
 Bromodichloromethane
 Concen: 2.646 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VW005515.D
 Acq: 19 Sep 2018 15:24

Tgt Ion: 83 Resp: 21182
 Ion Ratio Lower Upper
 83 100
 85 66.1 43.0 80.0
 127 8.7 6.8 10.2





#42

cis-1,3-Dichloropropene

Concen: 2.656 ug/L

RT: 10.08 min Scan# 1341

Delta R.T. 0.01 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

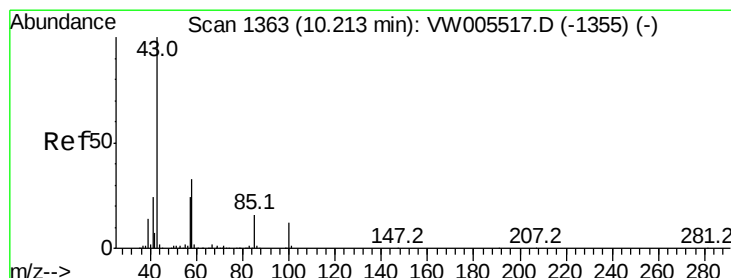
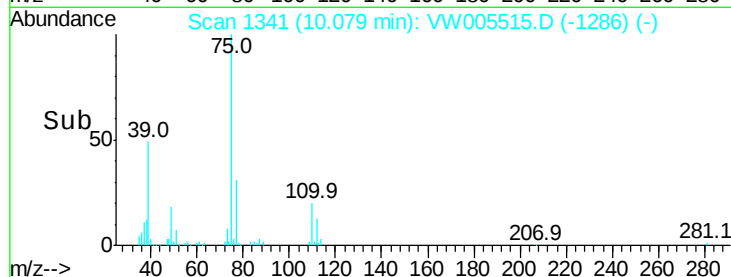
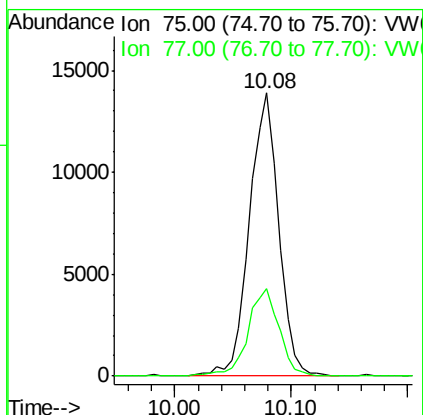
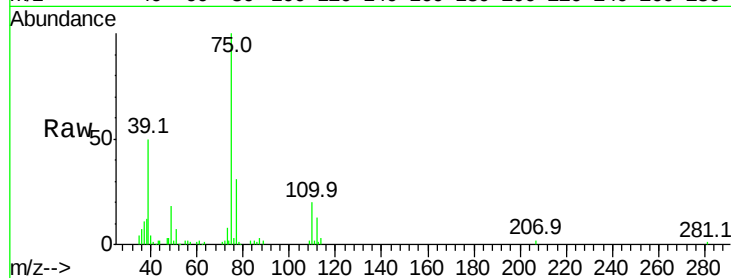
VSTD2.591

Tgt Ion: 75 Resp: 24498

Ion Ratio Lower Upper

75 100

77 30.9 21.1 39.1



#43

4-Methyl-2-pentanone

Concen: 4.053 ug/L

RT: 10.22 min Scan# 1364

Delta R.T. 0.01 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

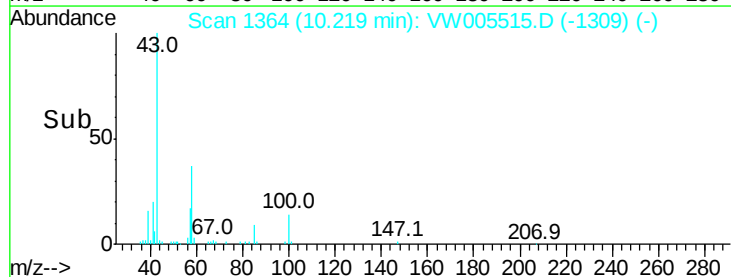
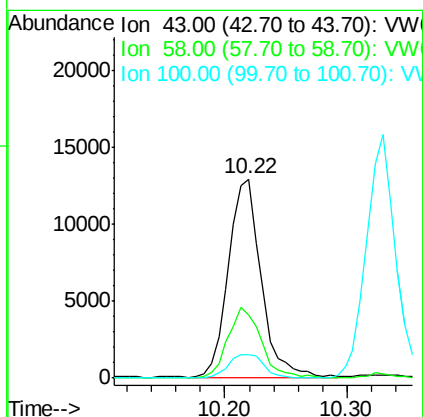
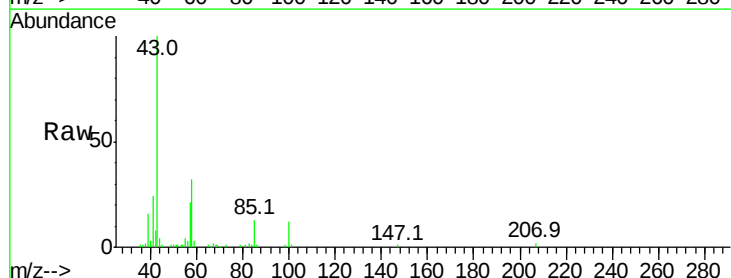
Tgt Ion: 43 Resp: 24199

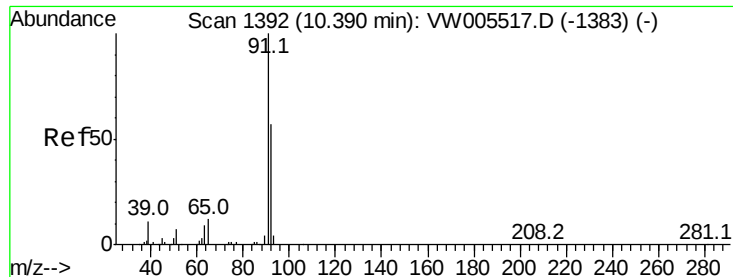
Ion Ratio Lower Upper

43 100

58 35.3 29.2 43.8

100 12.7 10.8 16.2





#44

Toluene

Concen: 2.379 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

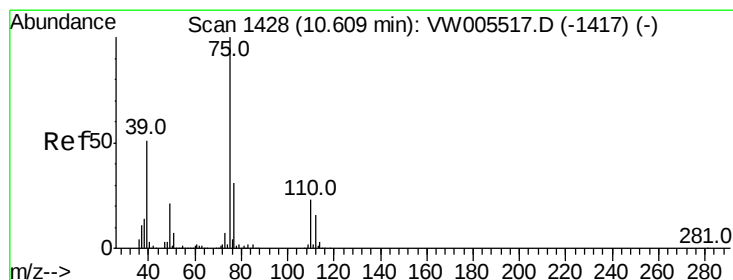
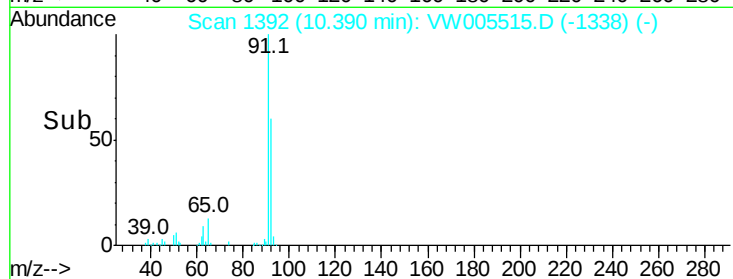
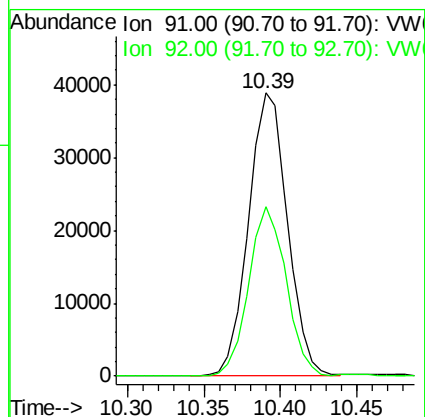
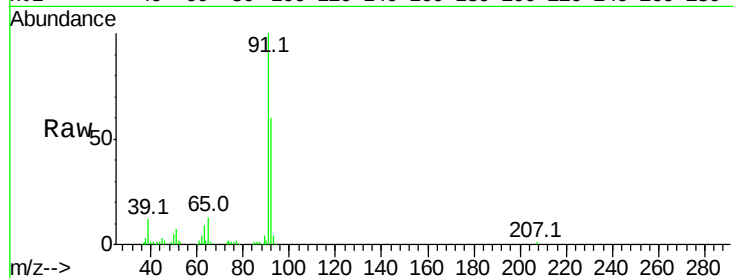
VSTD2.591

Tgt Ion: 91 Resp: 68955

Ion Ratio Lower Upper

91 100

92 59.7 40.0 74.2



#45

trans-1,3-Dichloropropene

Concen: 2.519 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW005515.D

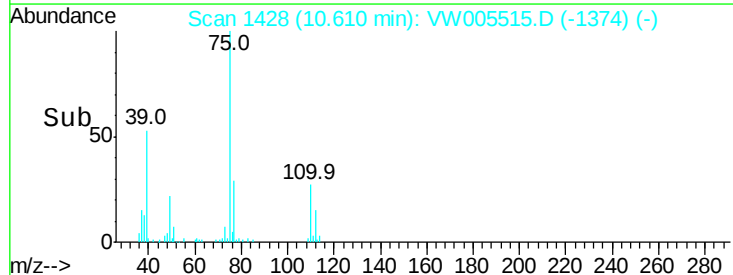
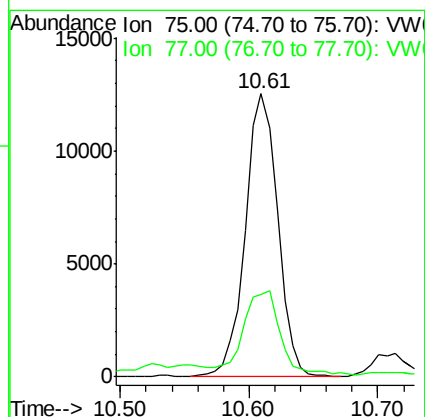
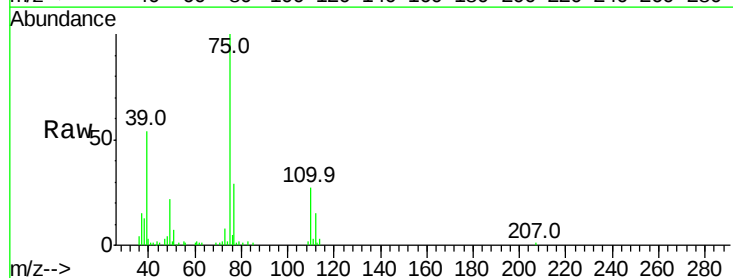
Acq: 19 Sep 2018 15:24

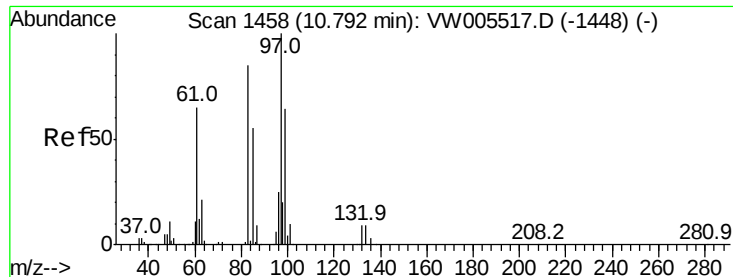
Tgt Ion: 75 Resp: 21769

Ion Ratio Lower Upper

75 100

77 29.1 22.1 41.1





#46

1,1,2-Trichloroethane

Concen: 2.665 ug/L

RT: 10.79 min Scan# 1458

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.591

Tgt Ion: 97 Resp: 13064

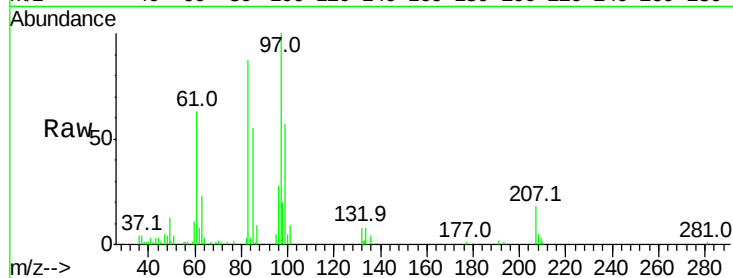
Ion Ratio Lower Upper

97 100

83 86.6 59.5 110.5

85 55.4 38.4 71.2

99 57.3 44.5 82.7

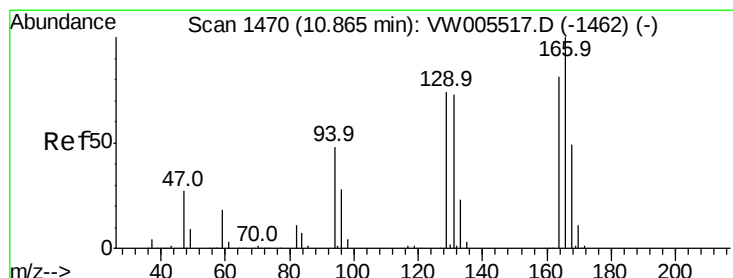
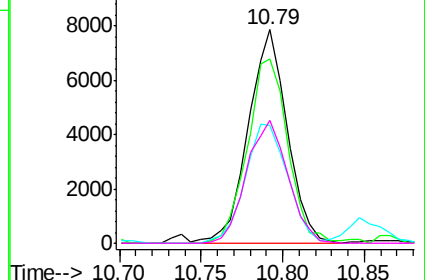
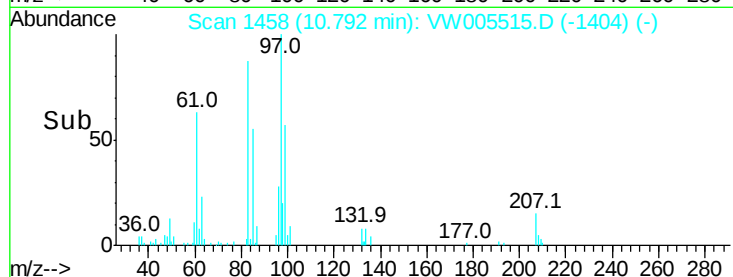


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 2.429 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Tgt Ion: 164 Resp: 14768

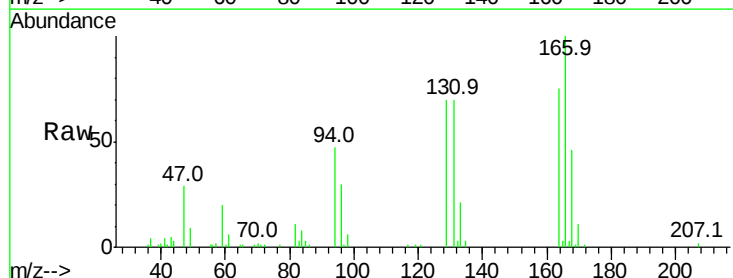
Ion Ratio Lower Upper

164 100

129 93.0 63.7 118.3

131 93.2 63.3 117.5

166 133.6 86.5 160.6

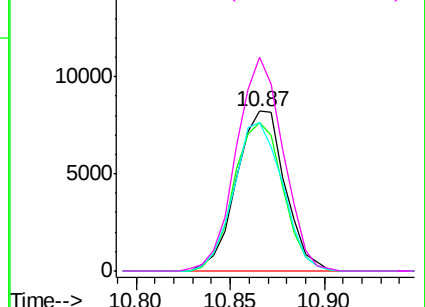
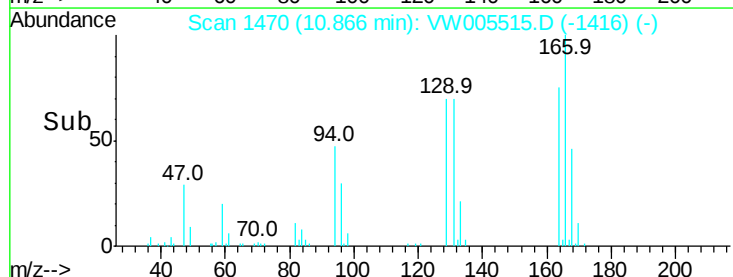


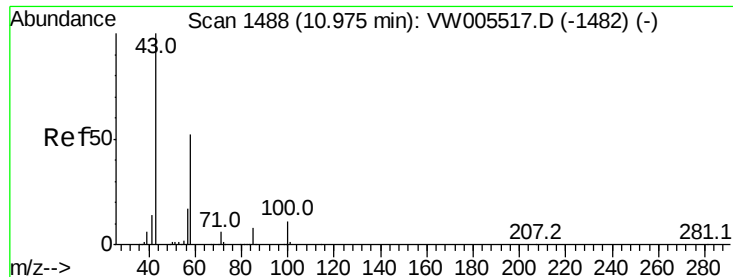
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

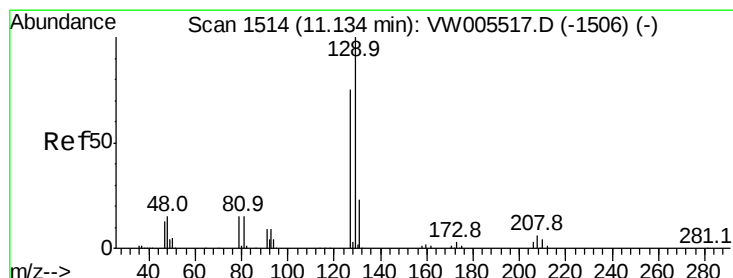
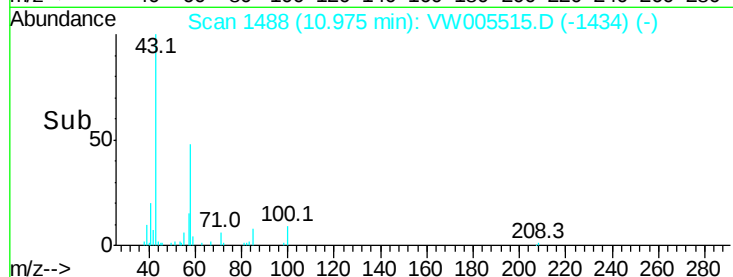
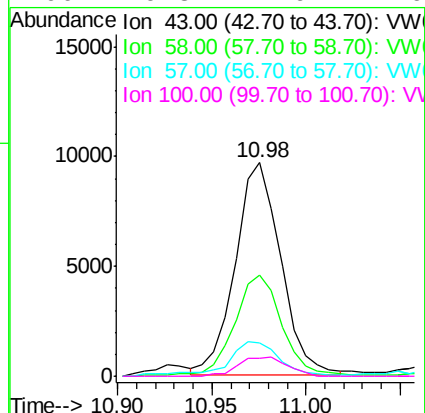
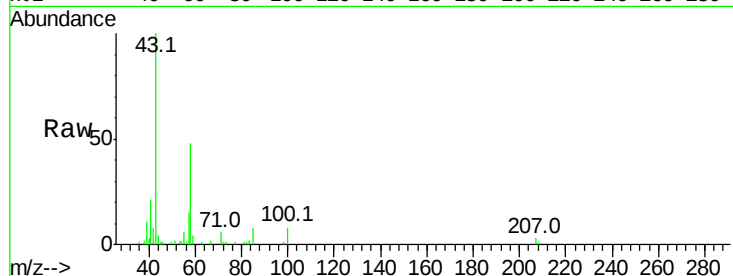




#49
2-Hexanone
Concen: 3.714 ug/L
RT: 10.98 min Scan# 1488
Delta R.T. 0.00 min
Lab File: VW005515.D
Acq: 19 Sep 2018 15:24

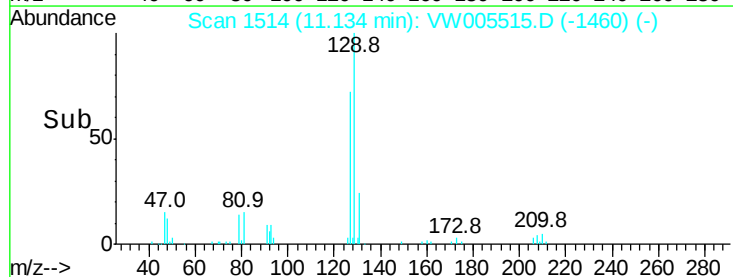
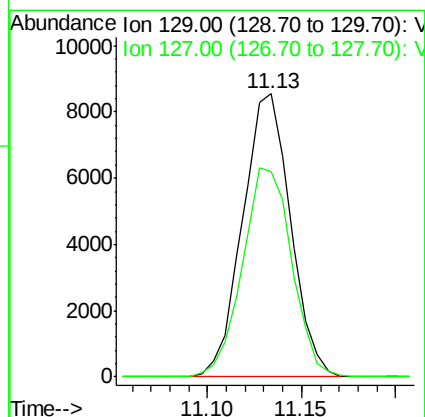
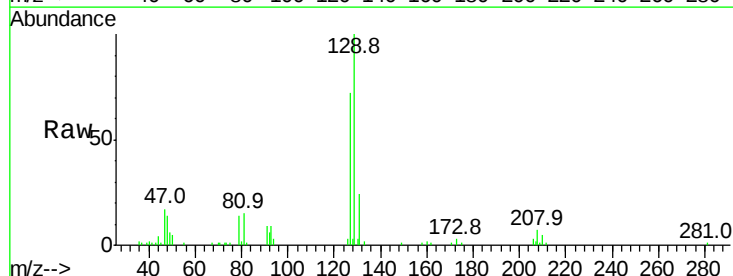
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.591

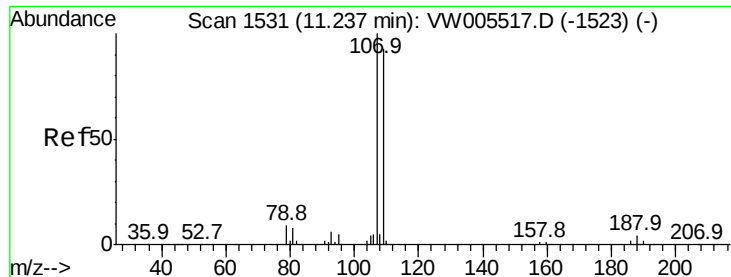
Tgt Ion:	43	Resp:	16304
Ion	Ratio	Lower	Upper
43	100		
58	49.1	40.1	60.1
57	16.8	14.1	21.1
100	9.8	7.9	11.9



#50
Dibromochloromethane
Concen: 2.574 ug/L
RT: 11.13 min Scan# 1514
Delta R.T. 0.00 min
Lab File: VW005515.D
Acq: 19 Sep 2018 15:24

Tgt Ion:	129	Resp:	15076
Ion	Ratio	Lower	Upper
129	100		
127	72.4	52.5	97.5

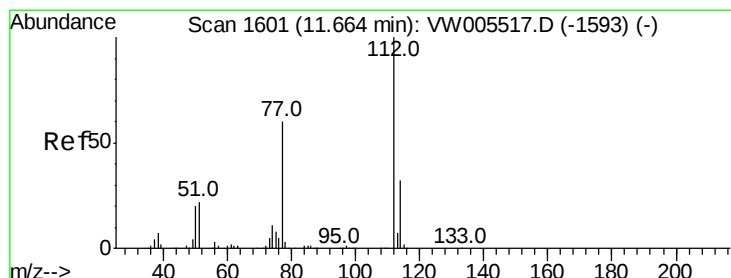
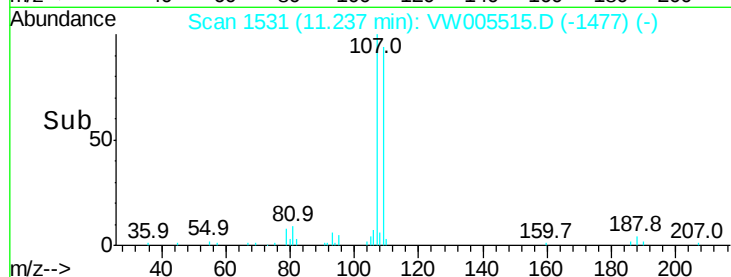
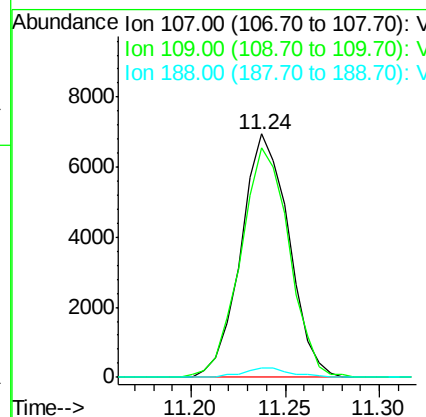
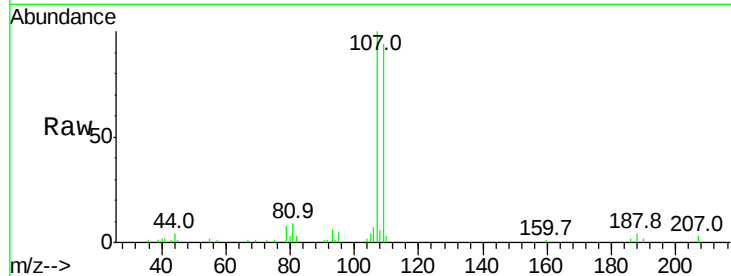




#51
 1,2-Dibromoethane
 Concen: 2.542 ug/L
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.00 min
 Lab File: VW005515.D
 Acq: 19 Sep 2018 15:24

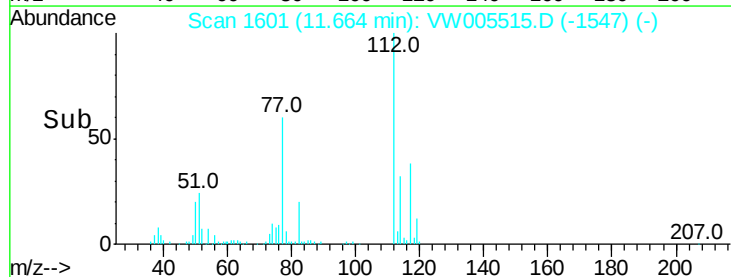
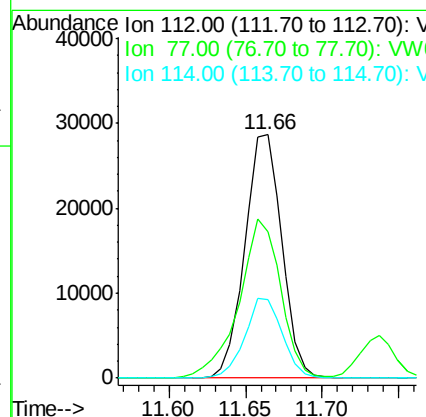
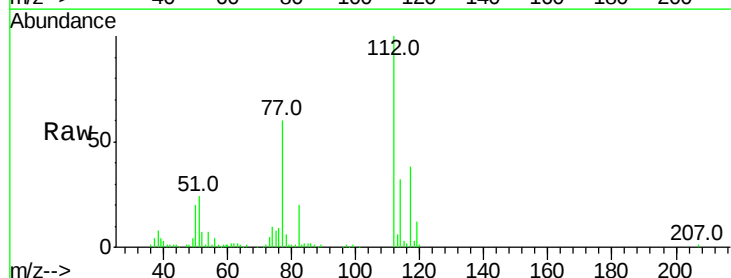
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.591

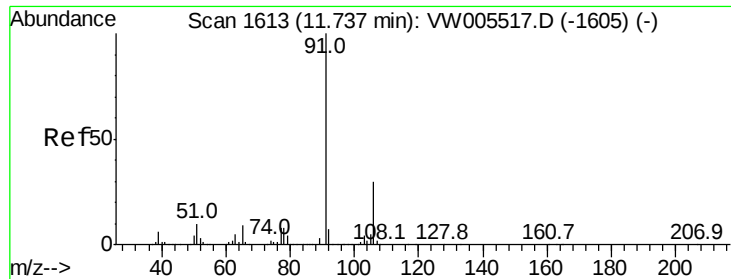
Tgt Ion:107 Resp: 12229
 Ion Ratio Lower Upper
 107 100
 109 94.3 65.4 121.4
 188 3.8 2.9 4.3



#52
 Chlorobenzene
 Concen: 2.557 ug/L
 RT: 11.66 min Scan# 1601
 Delta R.T. 0.00 min
 Lab File: VW005515.D
 Acq: 19 Sep 2018 15:24

Tgt Ion:112 Resp: 48356
 Ion Ratio Lower Upper
 112 100
 77 60.2 48.5 72.7
 114 32.3 22.5 41.7





#53

Ethylbenzene

Concen: 2.415 ug/L

RT: 11.74 min Scan# 1613

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

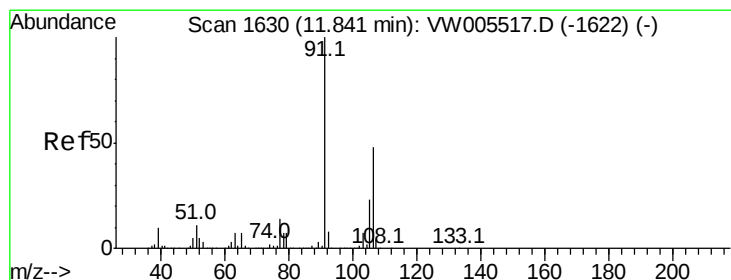
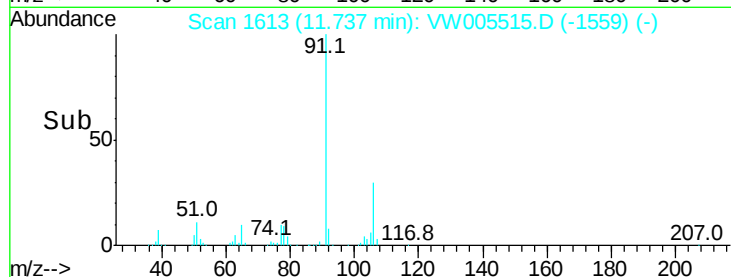
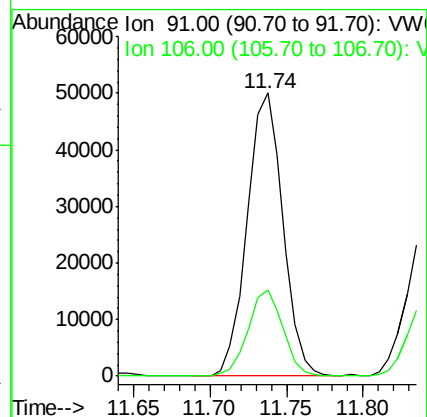
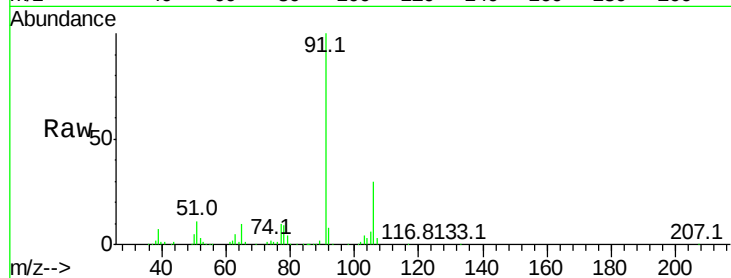
VSTD2.591

Tgt Ion: 91 Resp: 81404

Ion Ratio Lower Upper

91 100

106 30.3 20.8 38.6



#54

m,p-Xylene

Concen: 2.345 ug/L

RT: 11.85 min Scan# 1631

Delta R.T. 0.01 min

Lab File: VW005515.D

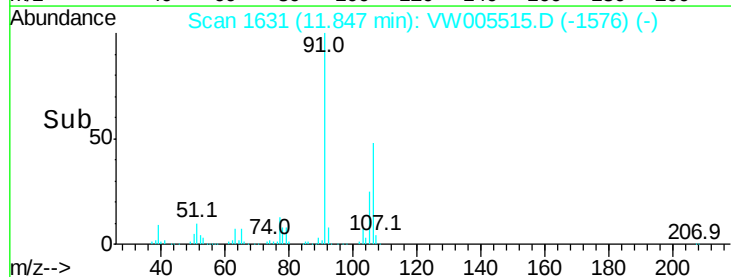
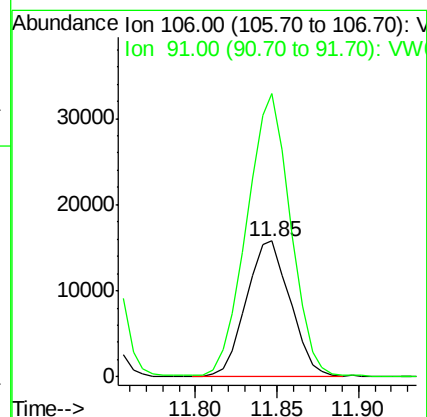
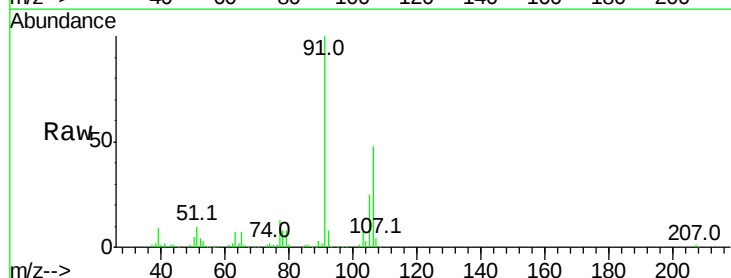
Acq: 19 Sep 2018 15:24

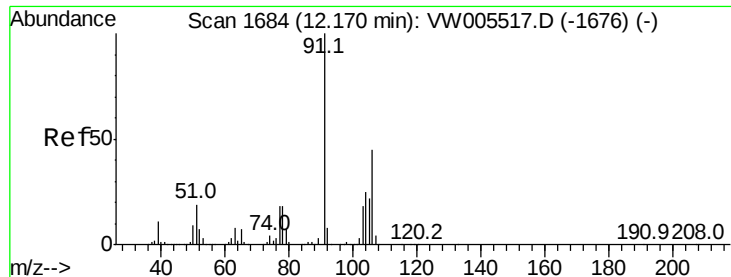
Tgt Ion: 106 Resp: 29597

Ion Ratio Lower Upper

106 100

91 208.0 144.6 268.6





#55

o-xylene

Concen: 2.321 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

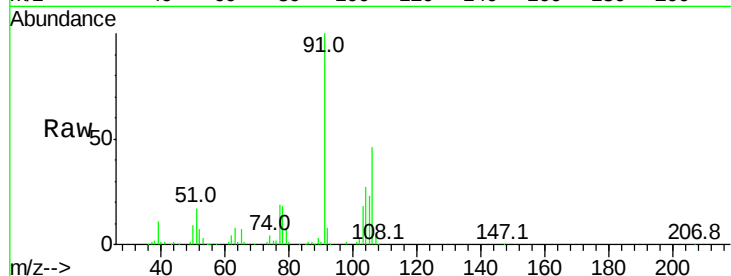
VSTD2.591

Tgt Ion:106 Resp: 27517

Ion Ratio Lower Upper

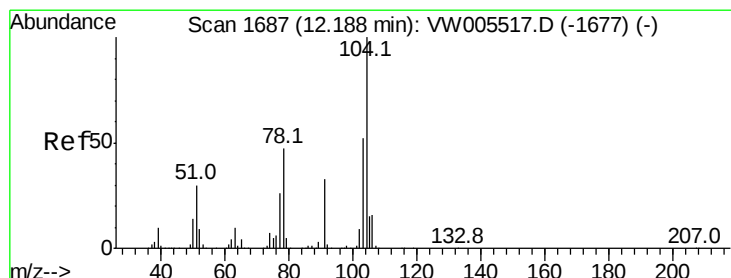
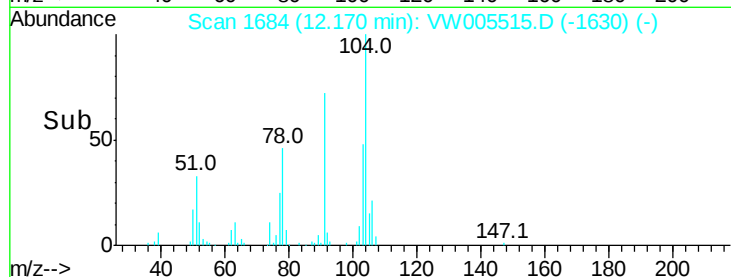
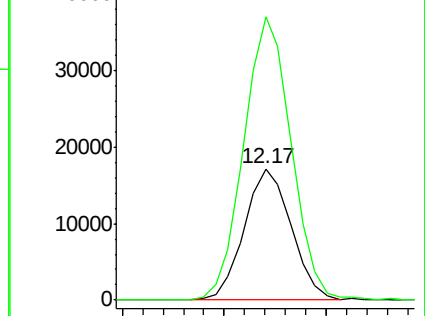
106 100

91 215.1 156.3 290.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 2.257 ug/L

RT: 12.19 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VW005515.D

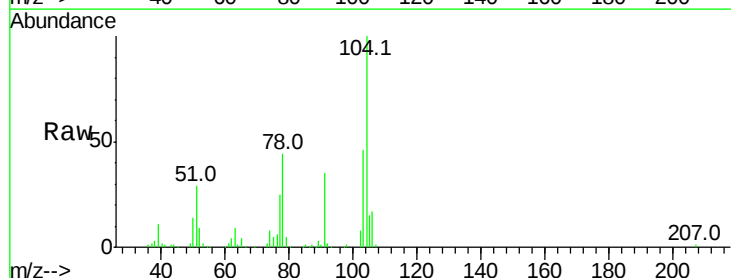
Acq: 19 Sep 2018 15:24

Tgt Ion:104 Resp: 46174

Ion Ratio Lower Upper

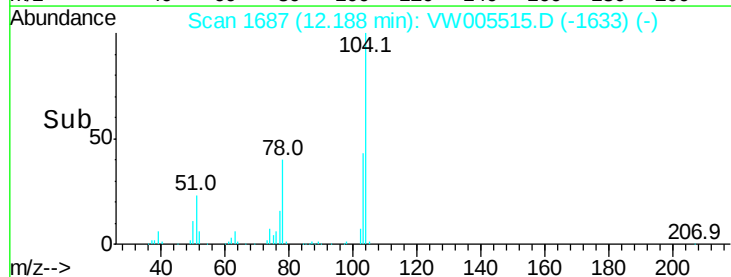
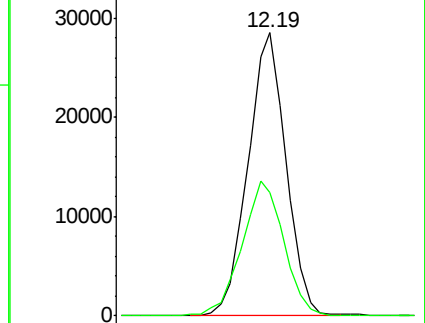
104 100

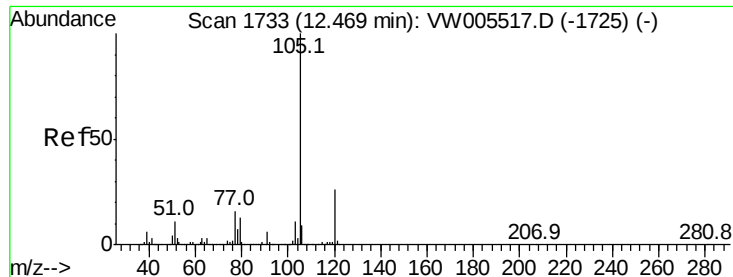
78 43.8 32.6 60.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 2.320 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.591

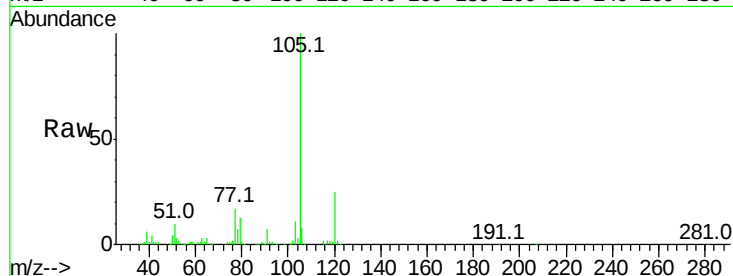
Tgt Ion:105 Resp: 76382

Ion Ratio Lower Upper

105 100

120 25.7 20.4 30.6

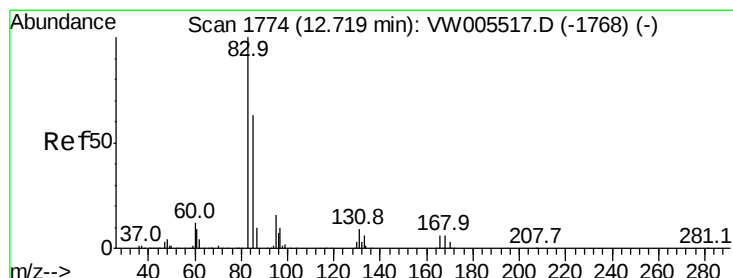
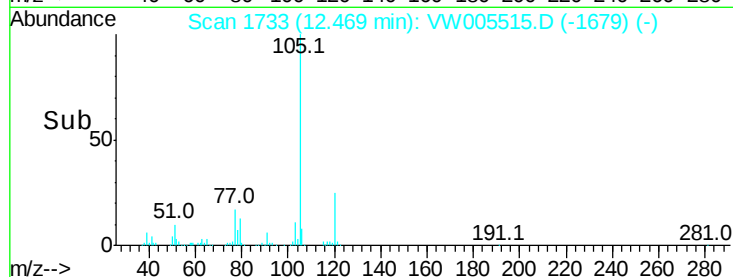
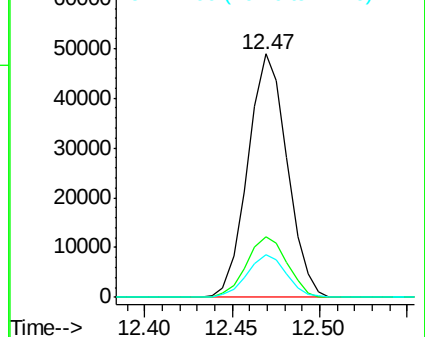
77 17.7 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 2.488 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

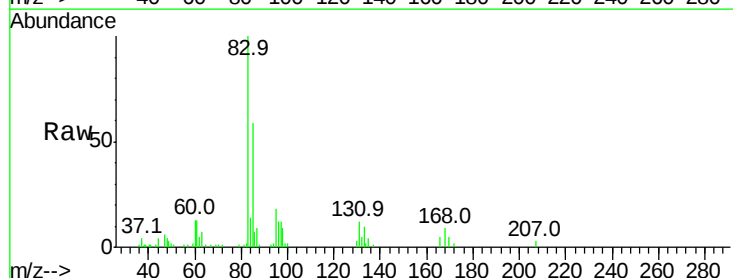
Tgt Ion: 83 Resp: 16768

Ion Ratio Lower Upper

83 100

85 59.3 43.9 81.5

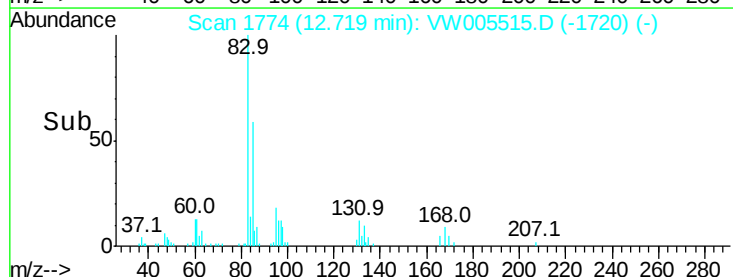
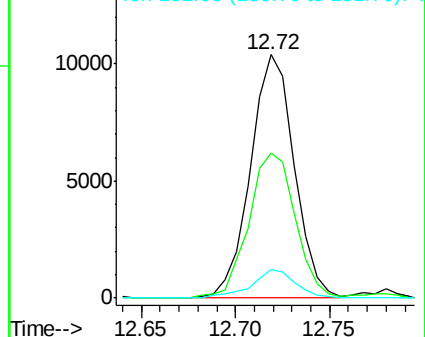
131 12.0 7.9 11.9#

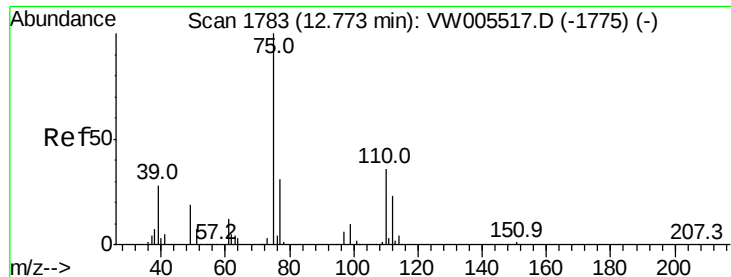


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 2.233 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

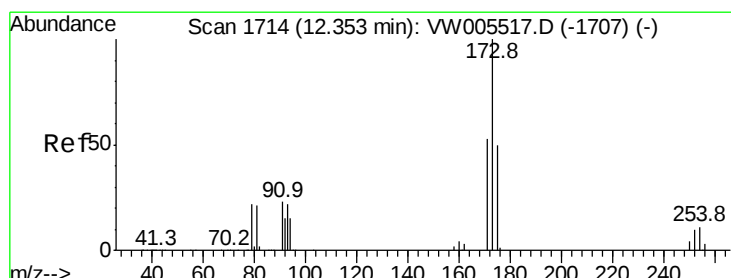
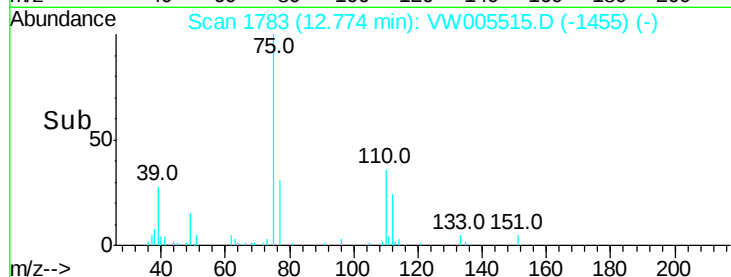
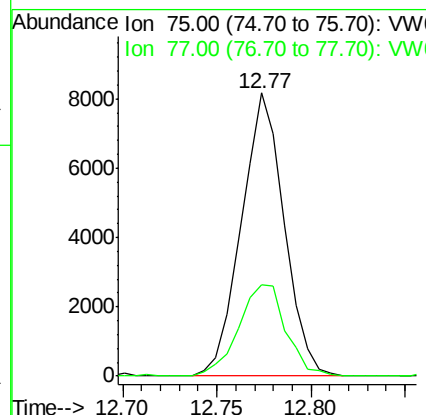
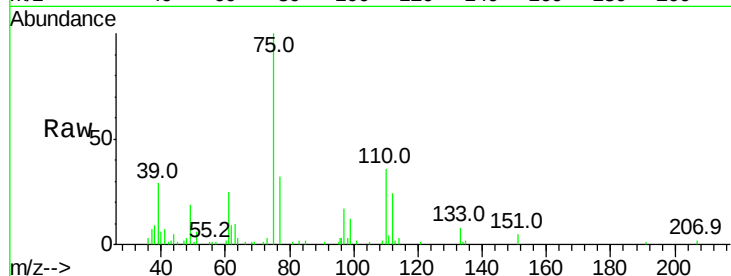
VSTD2.591

Tgt Ion: 75 Resp: 12865

Ion Ratio Lower Upper

75 100

77 35.8 25.9 38.9



#62

Bromoform

Concen: 2.341 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

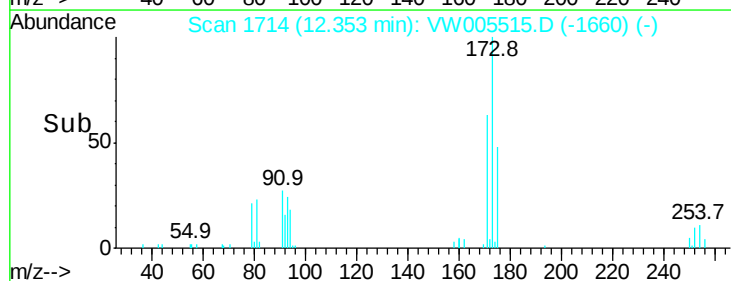
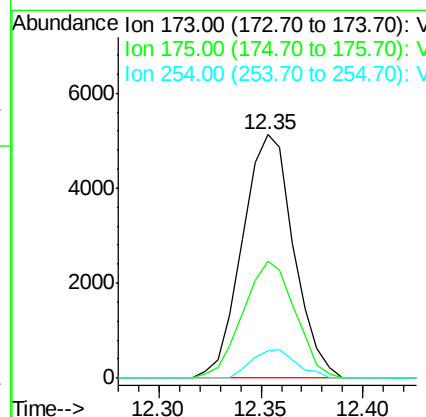
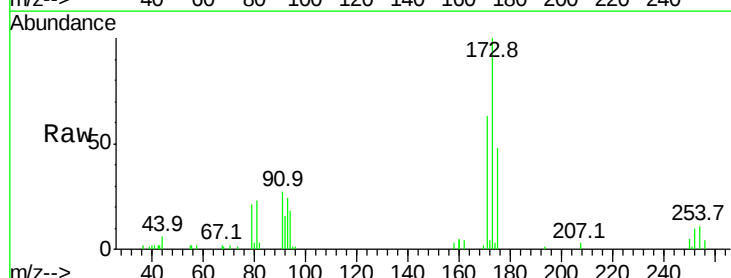
Tgt Ion: 173 Resp: 8953

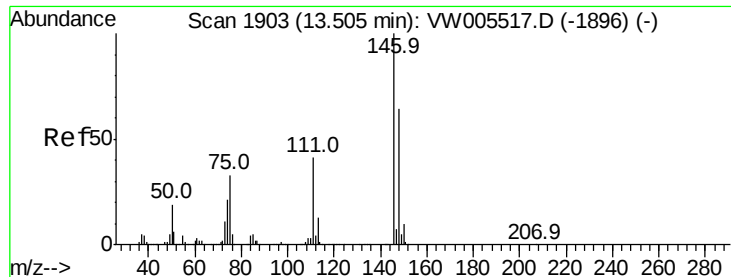
Ion Ratio Lower Upper

173 100

175 48.7 39.4 59.0

254 10.4 8.8 13.2

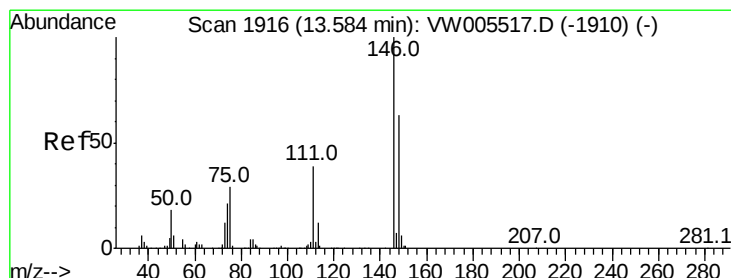
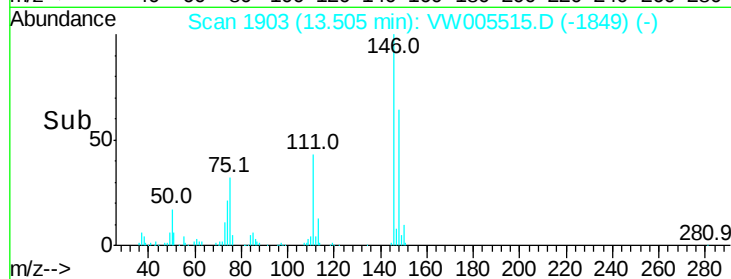
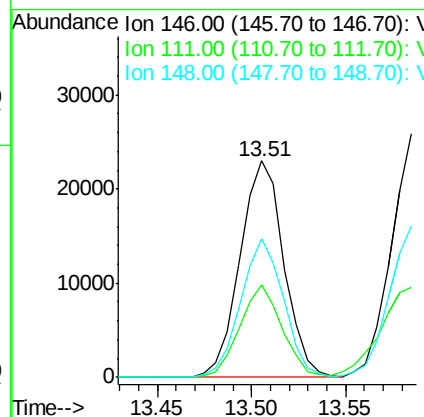
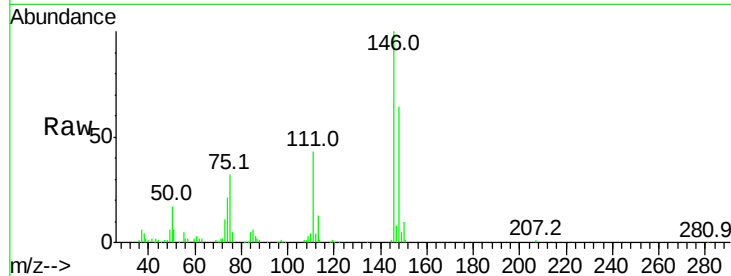




#63
 1,3-Dichlorobenzene
 Concen: 2.542 ug/L
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.00 min
 Lab File: VW005515.D
 Acq: 19 Sep 2018 15:24

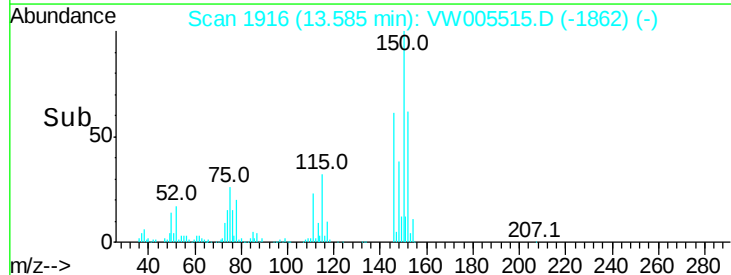
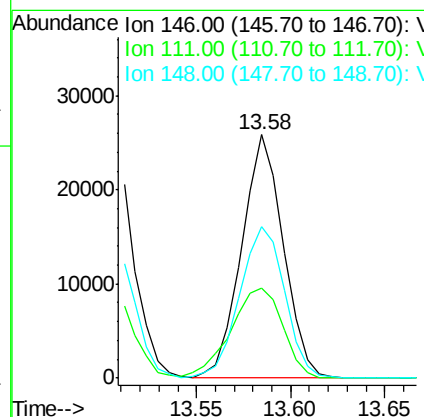
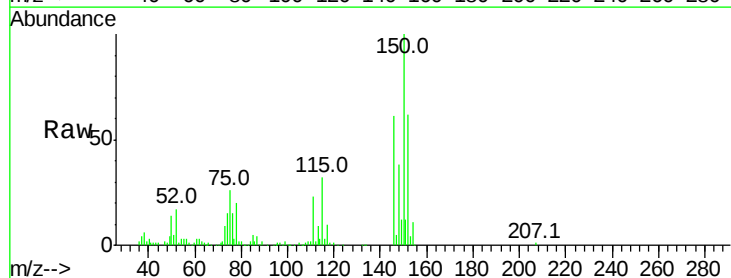
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.591

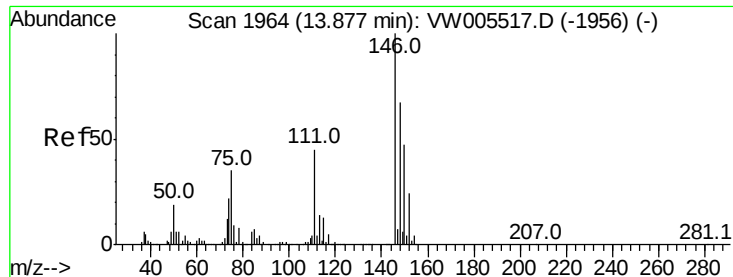
Tgt Ion:146 Resp: 36900
 Ion Ratio Lower Upper
 146 100
 111 43.0 28.6 53.0
 148 63.9 44.9 83.5



#64
 1,4-Dichlorobenzene
 Concen: 2.646 ug/L
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VW005515.D
 Acq: 19 Sep 2018 15:24

Tgt Ion:146 Resp: 39630
 Ion Ratio Lower Upper
 146 100
 111 36.9 27.4 51.0
 148 62.2 43.8 81.4

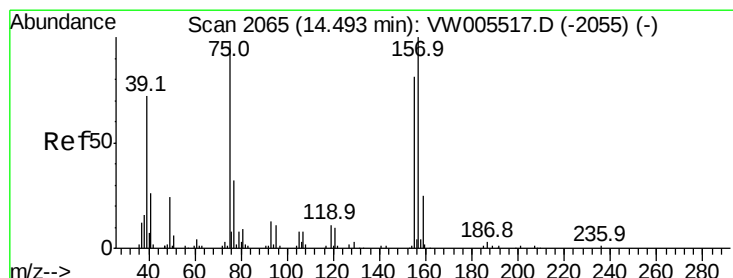
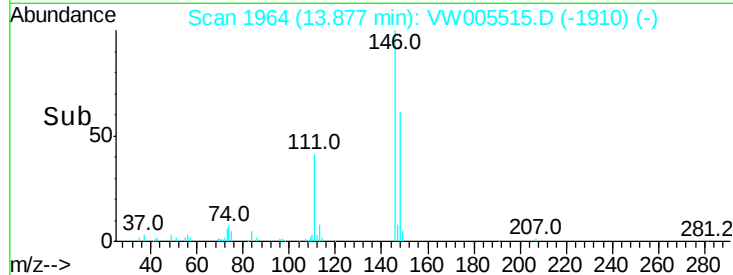
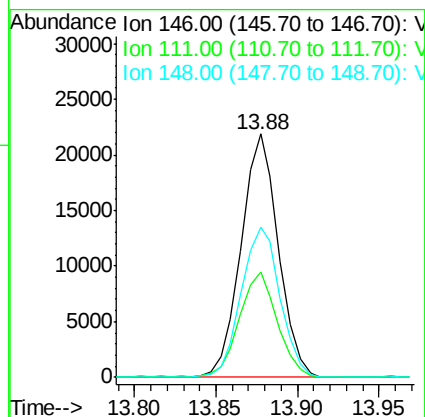
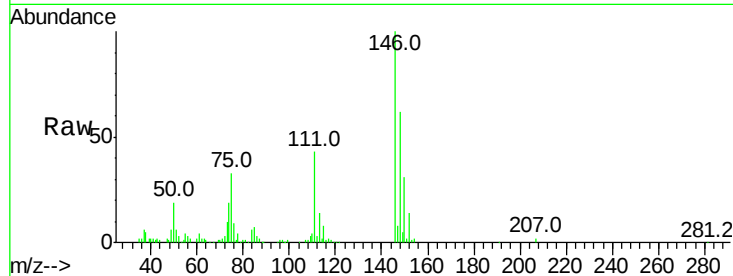




#65
 1,2-Dichlorobenzene
 Concen: 2.501 ug/L
 RT: 13.88 min Scan# 1964
 Delta R.T. 0.00 min
 Lab File: VW005515.D
 Acq: 19 Sep 2018 15:24

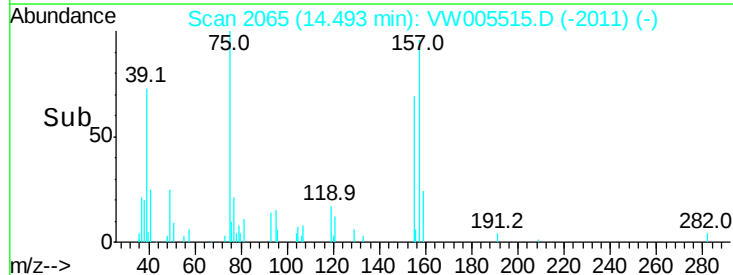
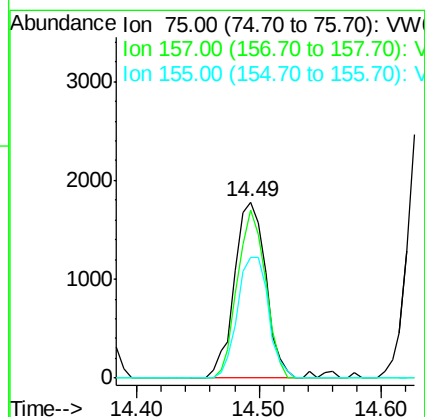
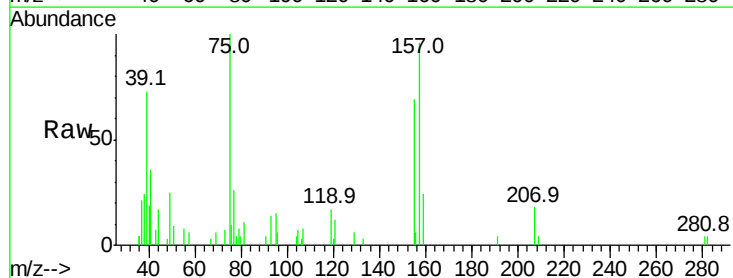
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.591

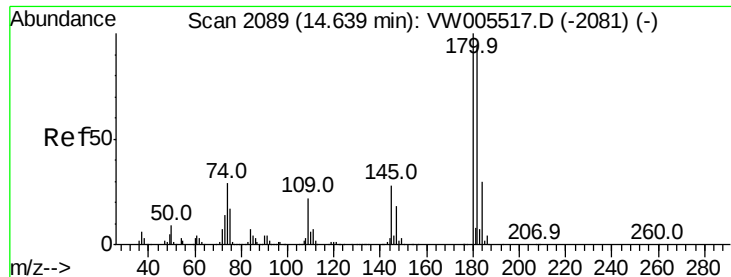
Tgt Ion: 146 Resp: 34744
 Ion Ratio Lower Upper
 146 100
 111 43.2 35.9 53.9
 148 61.6 53.5 80.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.132 ug/L
 RT: 14.49 min Scan# 2065
 Delta R.T. 0.00 min
 Lab File: VW005515.D
 Acq: 19 Sep 2018 15:24

Tgt Ion: 75 Resp: 3215
 Ion Ratio Lower Upper
 75 100
 157 95.5 81.5 122.3
 155 68.8 66.2 99.2

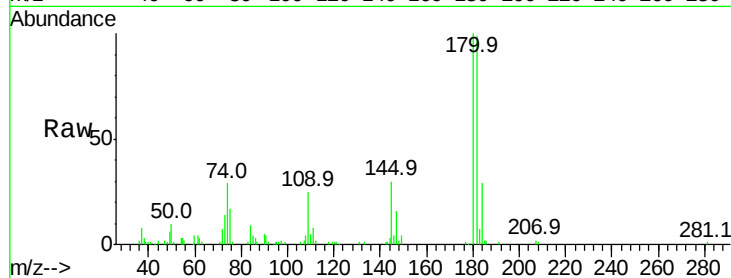




#67
 1,3,5-Trichlorobenzene
 Concen: 2.563 ug/L
 RT: 14.64 min Scan# 2089
 Delta R.T. 0.00 min
 Lab File: VW005515.D
 Acq: 19 Sep 2018 15:24

Instrument :
 MSVOA_W
 ClientSampled :
 VSTD2.591

Tgt Ion:	180	Resp:	29456
Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.2	114.4
184	30.2	24.1	36.1
145	30.3	23.5	35.3

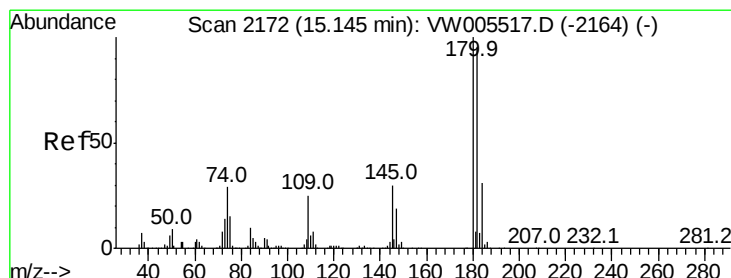
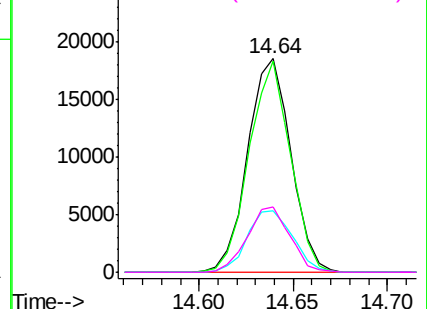
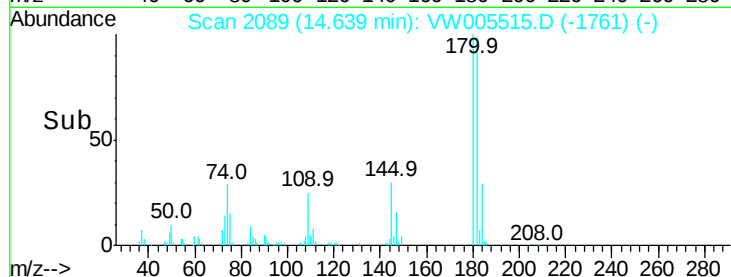


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

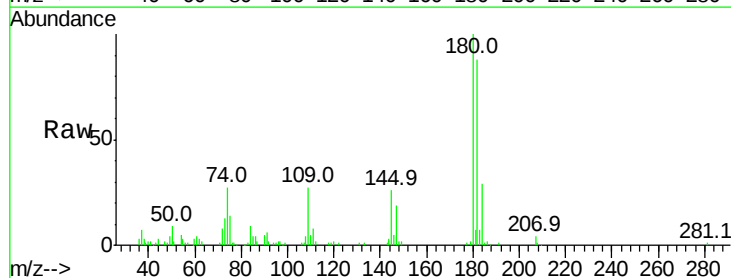
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 2.545 ug/L
 RT: 15.15 min Scan# 2172
 Delta R.T. 0.00 min
 Lab File: VW005515.D
 Acq: 19 Sep 2018 15:24

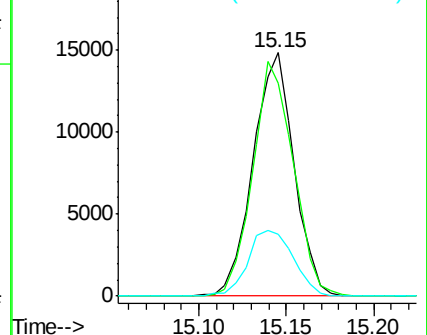
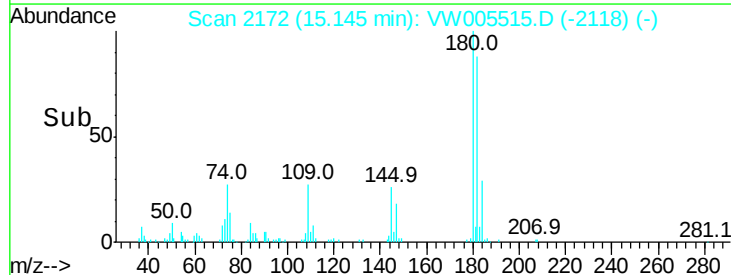
Tgt Ion:	180	Resp:	24171
Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.7	115.1
145	30.4	24.6	37.0

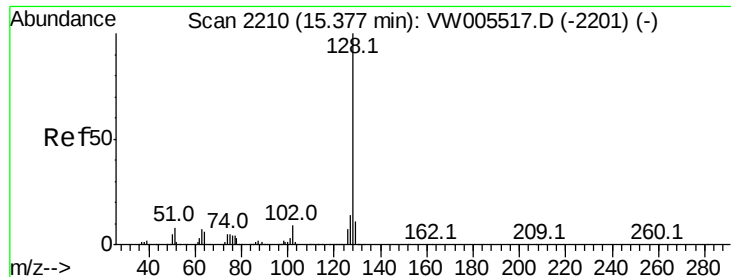


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 2.071 ug/L

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.591

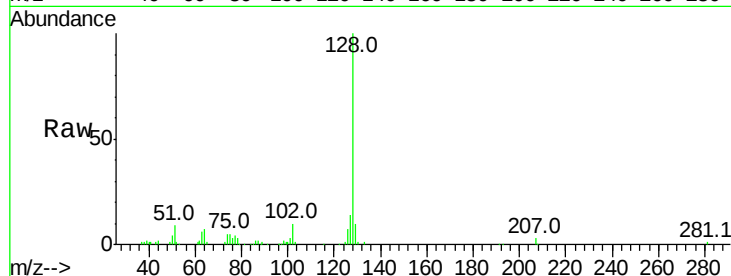
Tgt Ion:128 Resp: 43094

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

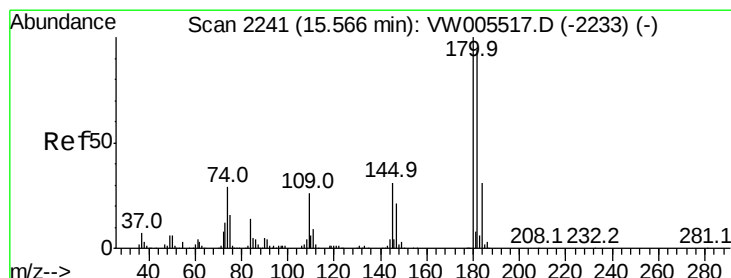
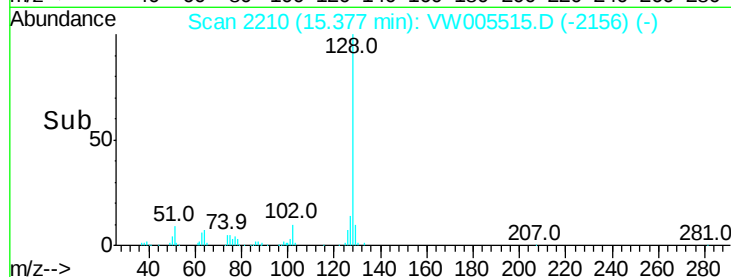
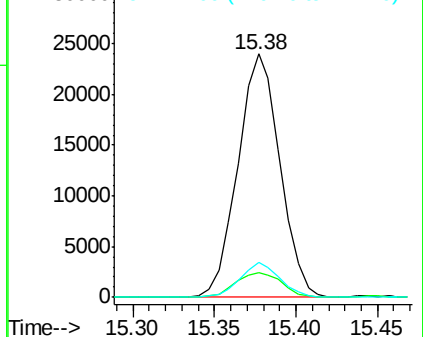
127 13.7 11.0 16.4



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: 2.417 ug/L

RT: 15.57 min Scan# 2241

Delta R.T. 0.00 min

Lab File: VW005515.D

Acq: 19 Sep 2018 15:24

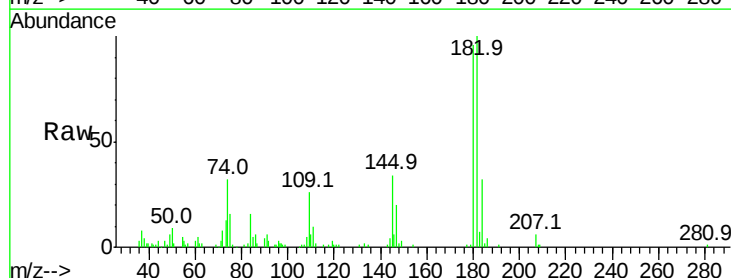
Tgt Ion:180 Resp: 21579

Ion Ratio Lower Upper

180 100

182 94.9 76.6 114.8

145 32.2 25.9 38.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

