

Data File : VW012928.D
Acq On : 12 Sep 2019 11:22
Operator : SY/VA
Sample : VSTD00502
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

Quant Time: Sep 12 12:22:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091219S.M
Quant Title : VOC Analysis
QLast Update : Thu Sep 12 12:18:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	414924	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	369899	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	181571	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	22179	3.80	ug/L	0.00
7) Chloroethane-d5	2.89	69	17198	4.09	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.01	63	24240	1.81	ug/L	0.00
20) 2-Butanone-d5	7.09	46	17523	6.66	ug/L	0.01
24) Chloroform-d	7.65	84	56494	4.96	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	30889	4.58	ug/L	0.00
29) Benzene-d6	8.27	84	99971	4.30	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	33452	4.46	ug/L	0.00
37) Toluene-d8	10.32	98	95533	4.63	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	14614	4.44	ug/L	0.00
39) 2-Hexanone-d5	10.92	63	12777	7.28	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	26201	4.20	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	38406	5.49	ug/L	0.00

Target Compounds

					Qvalue
3) Chloromethane	2.21	50	19975	3.302 ug/L	96
5) Vinyl chloride	2.35	62	26441	3.426 ug/L	94
6) Bromomethane	2.77	94	16146	4.438 ug/L	97
8) Chloroethane	2.92	64	15617	3.869 ug/L	92
9) Trichlorofluoromethane	3.25	101	14173	3.605 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	23259	3.903 ug/L #	88
12) 1,1-Dichloroethene	4.04	96	23773	3.989 ug/L	91
13) Acetone	4.13	43	13243	4.700 ug/L	82
14) Carbon disulfide	4.38	76	67832	3.495 ug/L	97
15) Methyl Acetate	4.67	43	6924	1.503 ug/L #	75
16) Methylene chloride	4.92	84	30141	4.655 ug/L	95
17) Methyl tert-butyl Ether	5.42	73	45101	4.545 ug/L #	90
18) trans-1,2-Dichloroethene	5.42	96	25228	4.097 ug/L	93
19) 1,1-Dichloroethane	6.22	63	49594	4.032 ug/L	100
21) 2-Butanone	7.18	43	18043	5.108 ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	28791	4.470 ug/L	95
23) Bromochloromethane	7.51	128	12975	4.734 ug/L	92
25) Chloroform	7.68	83	51480	4.541 ug/L	98
27) 1,2-Dichloroethane	8.40	62	34853	4.153 ug/L #	94
30) Cyclohexane	7.95	56	46870	3.645 ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	41873	4.646 ug/L	97
32) Carbon tetrachloride	8.07	117	38109	4.494 ug/L	99
34) Benzene	8.32	78	110768	4.273 ug/L	100
35) Trichloroethene	9.09	95	29315	4.455 ug/L	98
36) Methylcyclohexane	9.34	83	47918	4.014 ug/L	98
40) 1,2-Dichloropropane	9.37	63	27773	4.014 ug/L	100
41) Bromodichloromethane	9.65	83	35348	4.329 ug/L	93
42) cis-1,3-Dichloropropene	10.07	75	42926	4.148 ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	35791	5.709 ug/L	97
44) Toluene	10.38	91	117286	4.454 ug/L	100

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Quant Title : VOC Analysis
QLast Update : Thu Sep 12 12:18:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) trans-1,3-Dichloropropene	10.60	75	34737	4.034	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	19459	4.125	ug/L	96
47) Tetrachloroethene	10.86	164	25178	5.009	ug/L	97
49) 2-Hexanone	10.97	43	27229	5.637	ug/L	99
50) Dibromochloromethane	11.13	129	22427	4.313	ug/L	92
51) 1,2-Dibromoethane	11.23	107	18175	3.959	ug/L #	96
52) Chlorobenzene	11.66	112	76211	4.797	ug/L	96
53) Ethylbenzene	11.73	91	134032	4.564	ug/L	100
54) m,p-Xylene	11.83	106	50658	4.744	ug/L	98
55) o-xylene	12.16	106	46854	4.662	ug/L	98
56) Styrene	12.18	104	79345	4.644	ug/L	93
57) Isopropylbenzene	12.46	105	129367	4.679	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	22315	3.560	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	16652	3.444	ug/L	91
62) Bromoform	12.35	173	13286	4.090	ug/L	95
63) 1,3-Dichlorobenzene	13.50	146	57936	4.701	ug/L	97
64) 1,4-Dichlorobenzene	13.58	146	59599	4.816	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	53858	4.826	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.48	75	3420	2.961	ug/L	94
67) 1,3,5-Trichlorobenzene	14.63	180	44695	4.928	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	33538	4.591	ug/L	96
69) Naphthalene	15.36	128	52666	3.580	ug/L	98
70) 1,2,3-Trichlorobenzene	15.55	180	30140	4.455	ug/L	98

(#) = 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 :
VSTD00502

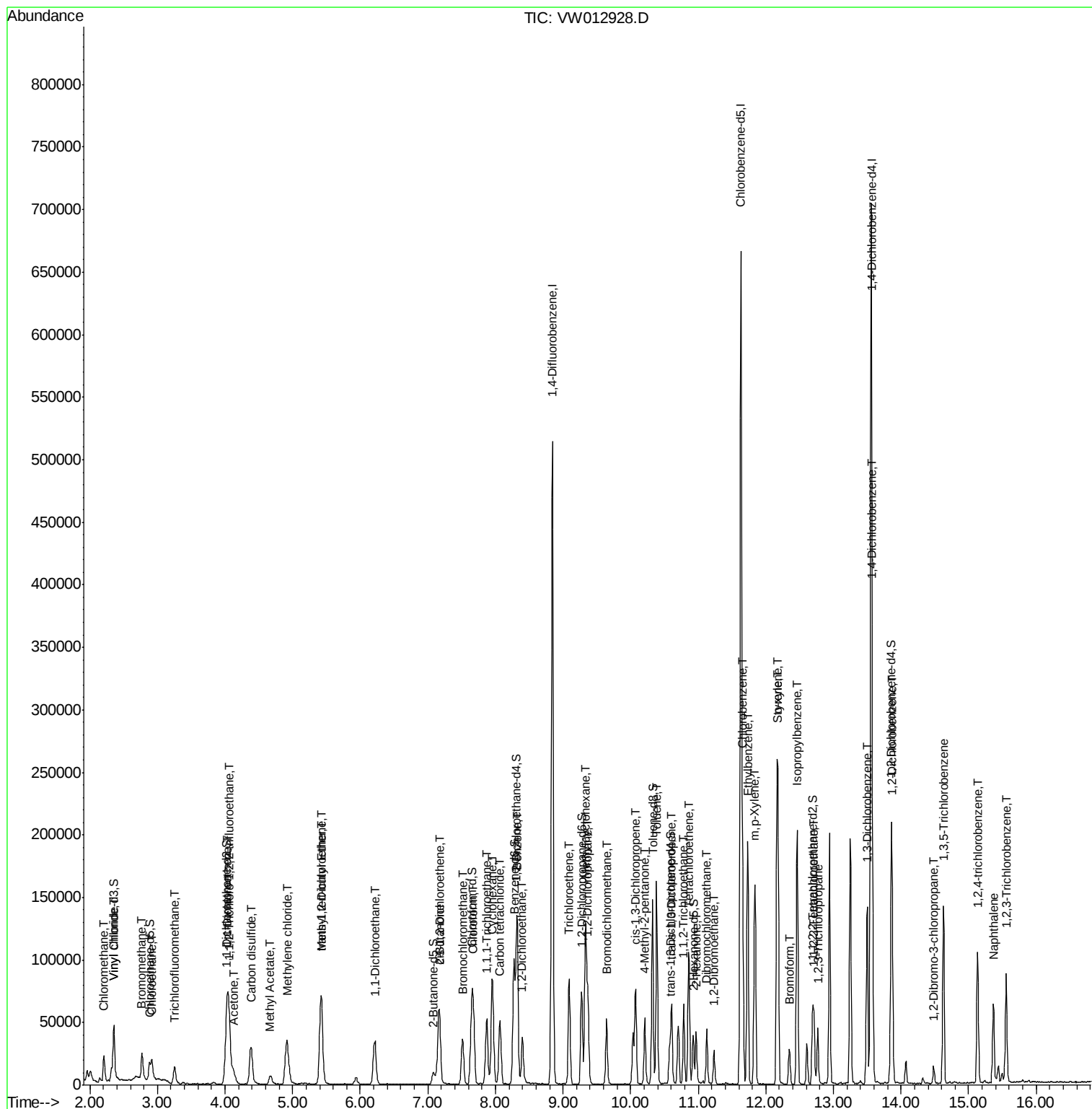
Quant Time: Sep 12 12:22:19 2019

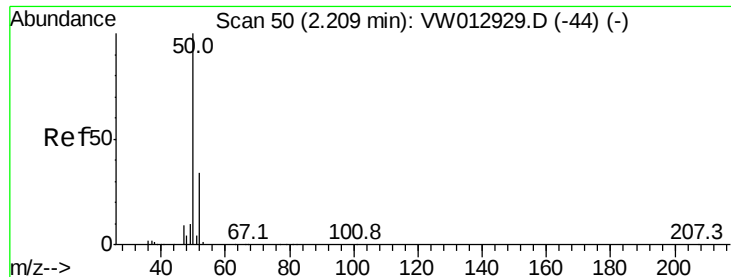
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091219S.M

Quant Title : VOC Analysis

QLast Update : Thu Sep 12 12:18:56 2019

Response via : Initial Calibration





#3

Chloromethane

Concen: 3.302 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

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Instrument :

MSVOA_W

ClientSampleId :

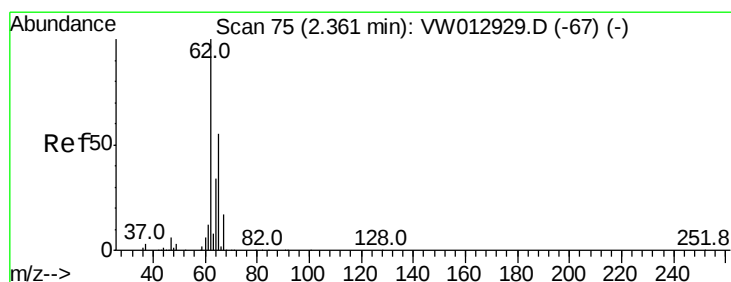
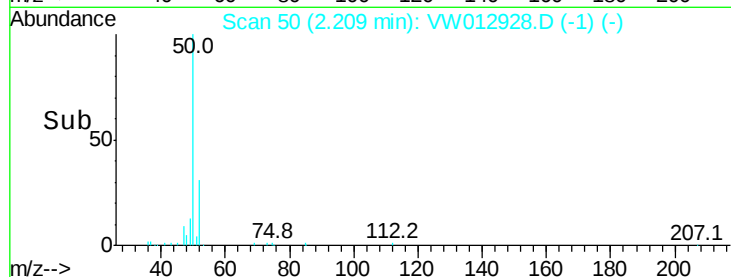
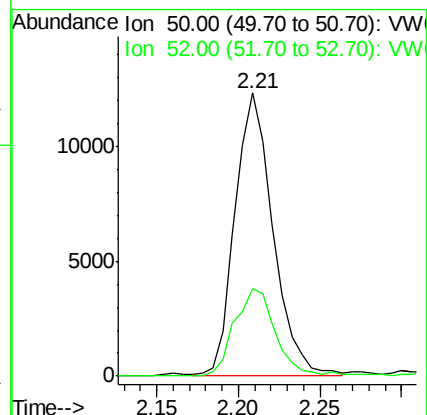
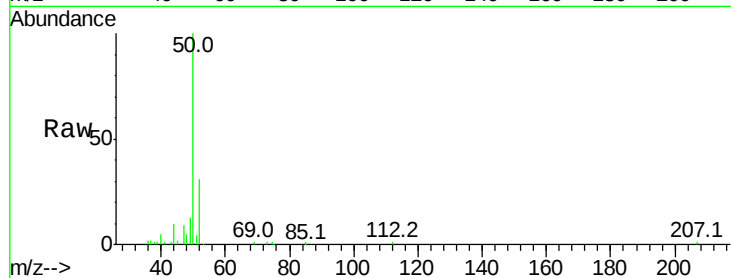
VSTD00502

Tgt Ion: 50 Resp: 19975

Ion Ratio Lower Upper

50 100

52 31.1 23.5 43.7



#5

Vinyl chloride

Concen: 3.426 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW012928.D

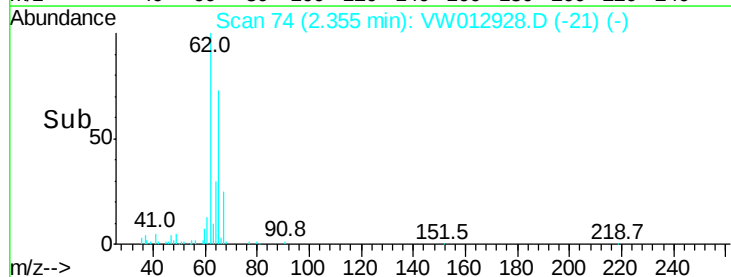
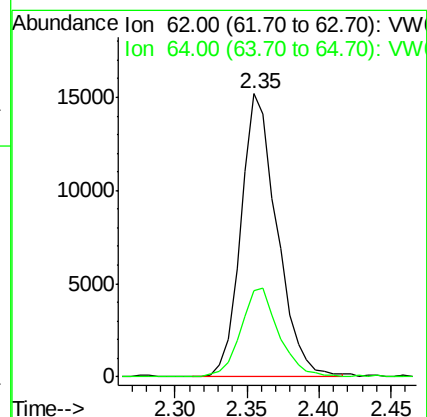
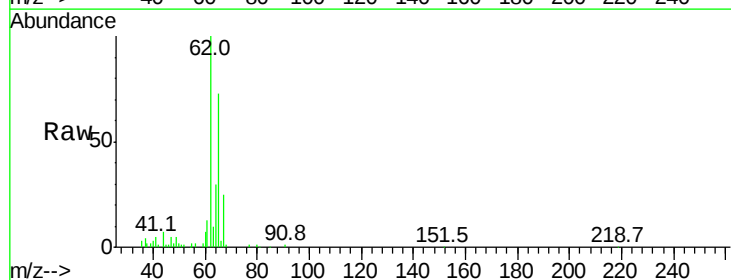
Acq: 12 Sep 2019 11:22

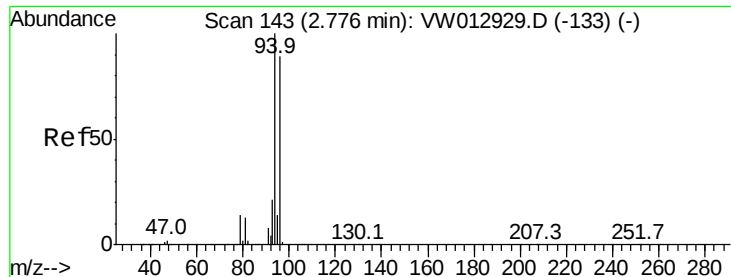
Tgt Ion: 62 Resp: 26441

Ion Ratio Lower Upper

62 100

64 30.3 23.7 44.1





#6

Bromomethane

Concen: 4.438 ug/L

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Instrument :

MSVOA_W

ClientSampleId :

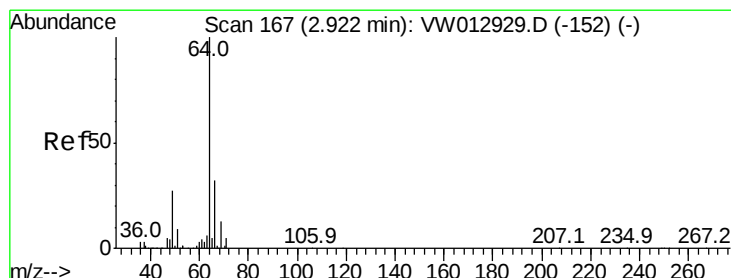
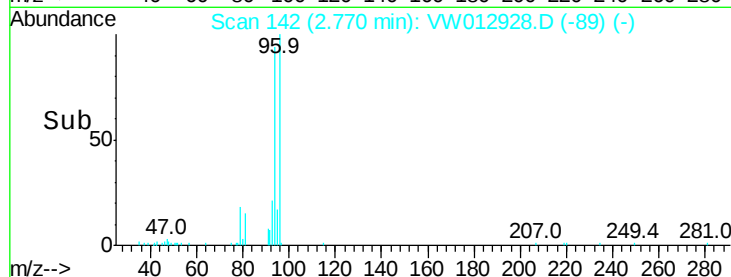
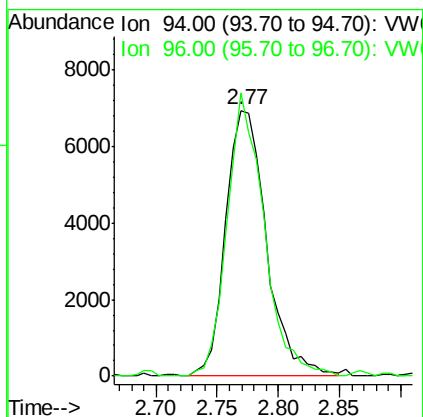
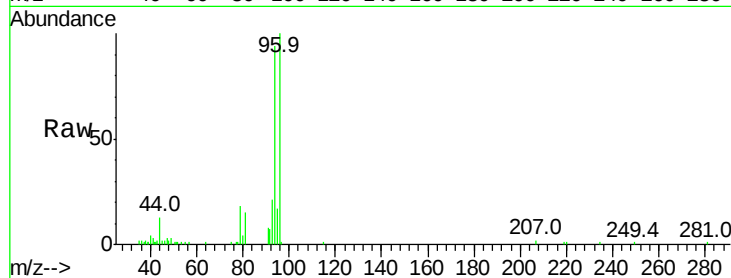
VSTD00502

Tgt Ion: 94 Resp: 16146

Ion Ratio Lower Upper

94 100

96 96.0 9.3 176.9



#8

Chloroethane

Concen: 3.869 ug/L

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW012928.D

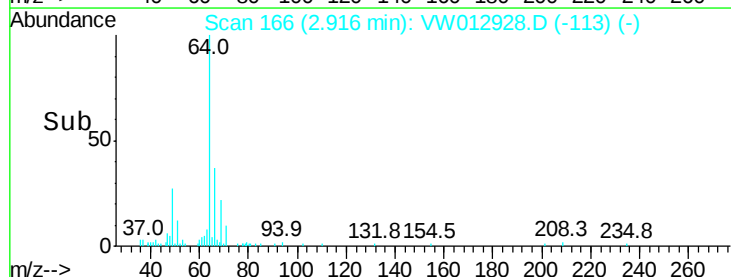
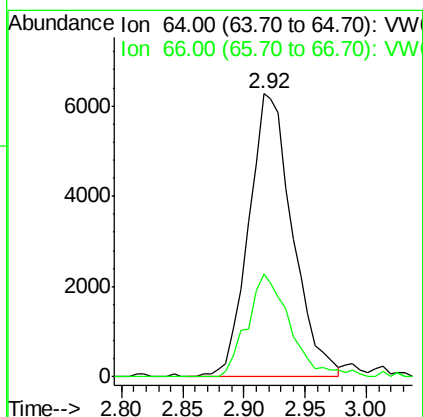
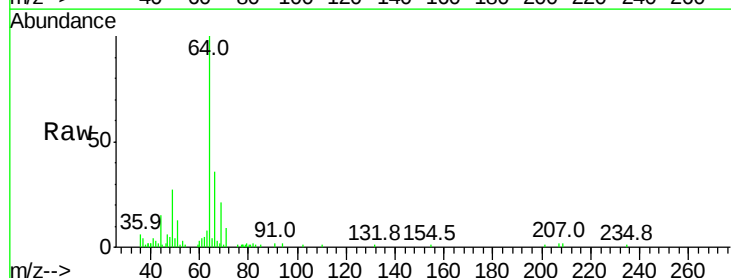
Acq: 12 Sep 2019 11:22

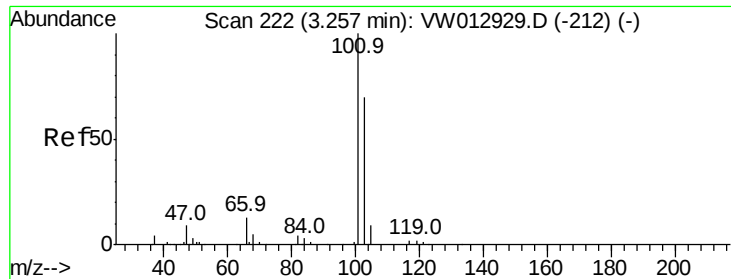
Tgt Ion: 64 Resp: 15617

Ion Ratio Lower Upper

64 100

66 36.3 22.1 41.1



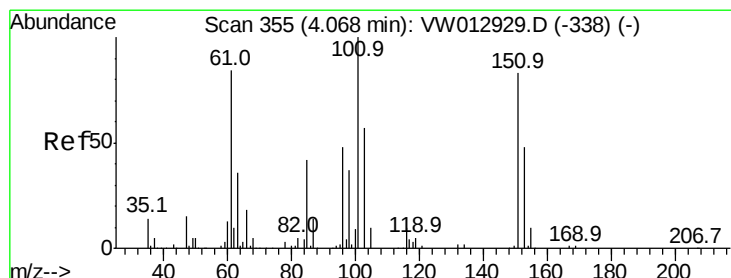
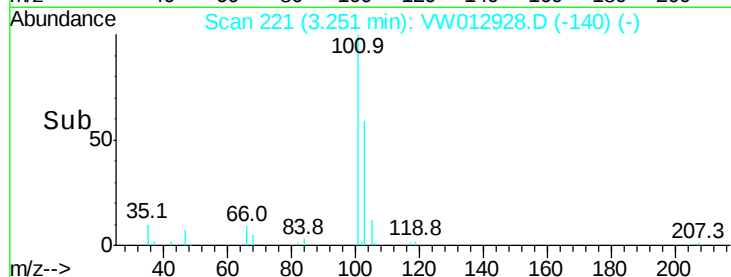
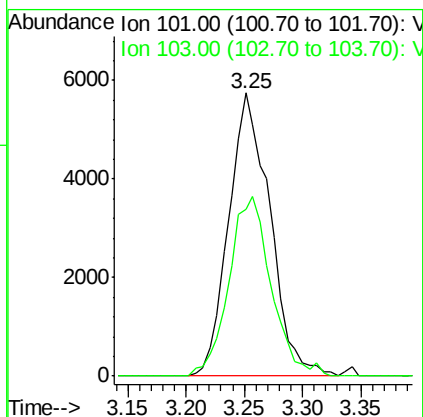
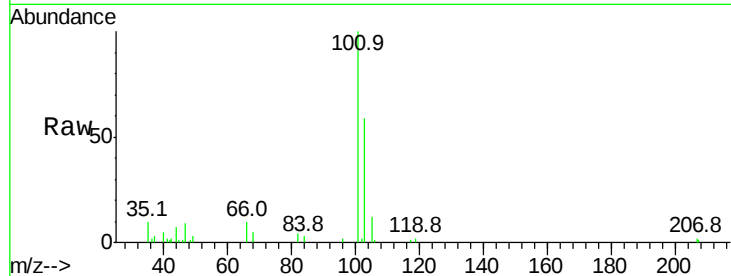


#9

Trichlorofluoromethane
 Concen: 3.605 ug/L
 RT: 3.25 min Scan# 221
 Delta R.T. -0.01 min
 Lab File: VW012928.D
 Acq: 12 Sep 2019 11:22

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

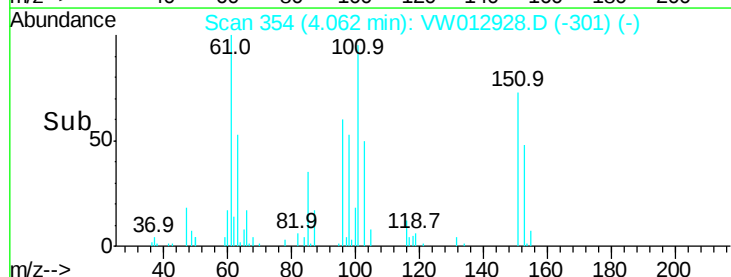
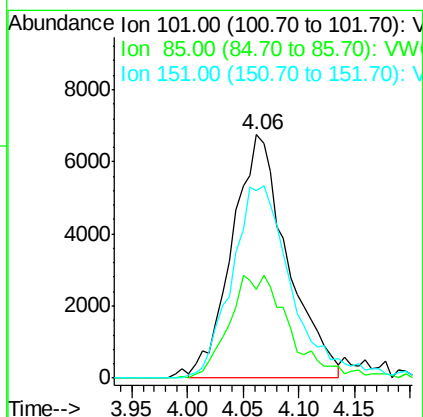
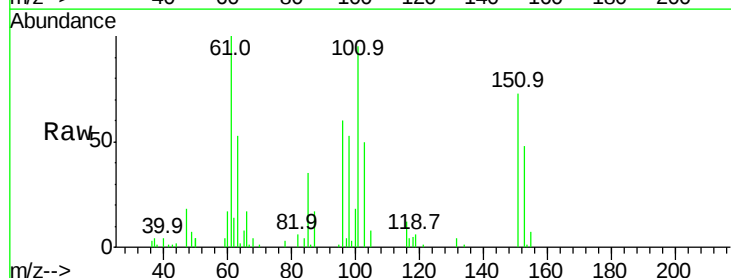
Tgt Ion:101 Resp: 14173
 Ion Ratio Lower Upper
 101 100
 103 64.1 45.9 85.3

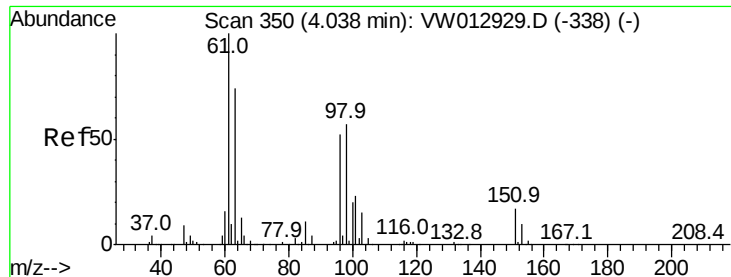


#11

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 3.903 ug/L
 RT: 4.06 min Scan# 354
 Delta R.T. -0.01 min
 Lab File: VW012928.D
 Acq: 12 Sep 2019 11:22

Tgt Ion:101 Resp: 23259
 Ion Ratio Lower Upper
 101 100
 85 22.4 34.6 52.0#
 151 79.5 64.8 97.2

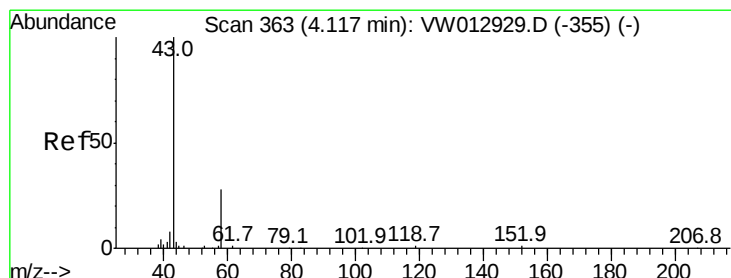
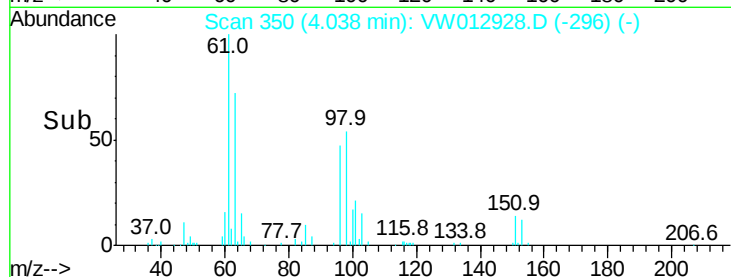
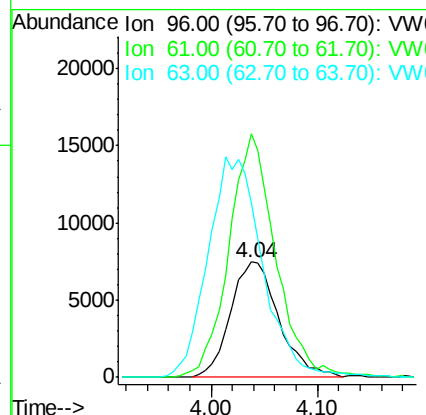
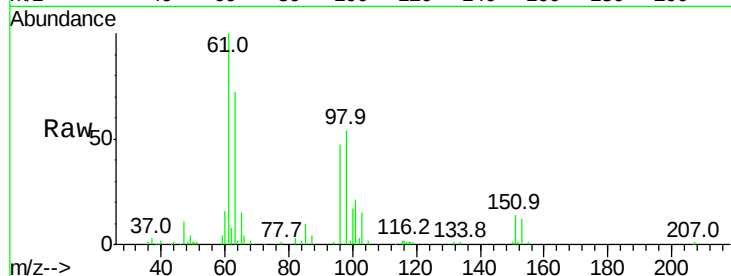




#12
 1,1-Dichloroethene
 Concen: 3.989 ug/L
 RT: 4.04 min Scan# 350
 Delta R.T. -0.00 min
 Lab File: VW012928.D
 Acq: 12 Sep 2019 11:22

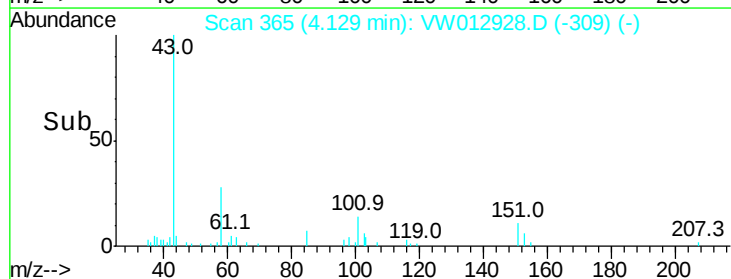
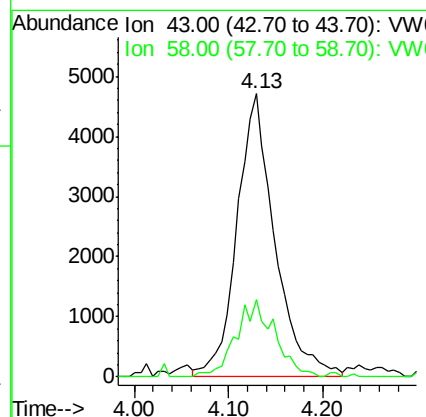
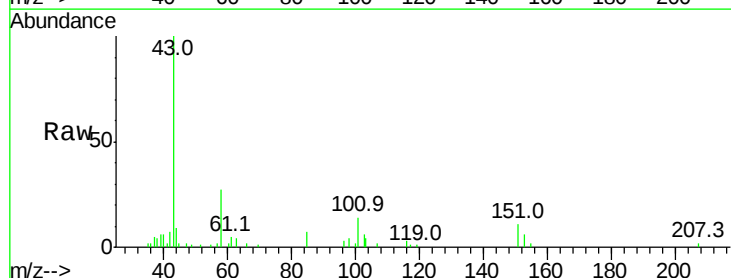
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

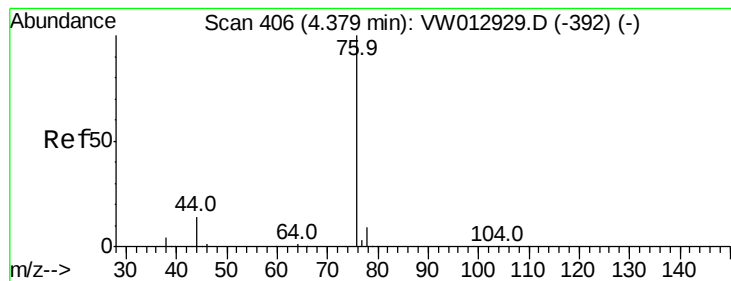
Tgt Ion: 96 Resp: 23773
 Ion Ratio Lower Upper
 96 100
 61 211.5 135.3 251.3
 63 151.5 102.0 189.4



#13
 Acetone
 Concen: 4.700 ug/L
 RT: 4.13 min Scan# 365
 Delta R.T. 0.01 min
 Lab File: VW012928.D
 Acq: 12 Sep 2019 11:22

Tgt Ion: 43 Resp: 13243
 Ion Ratio Lower Upper
 43 100
 58 19.8 0.0 59.4





#14

Carbon disulfide

Concen: 3.495 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Instrument :

MSVOA_W

ClientSampleId :

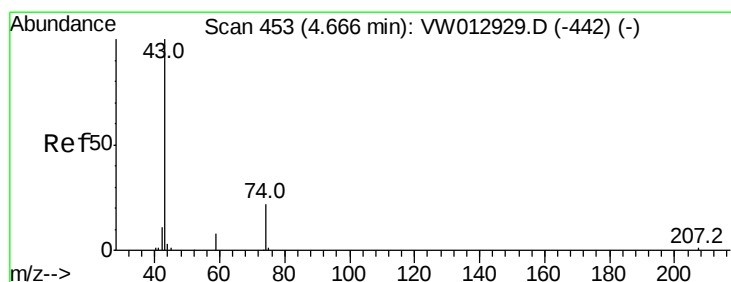
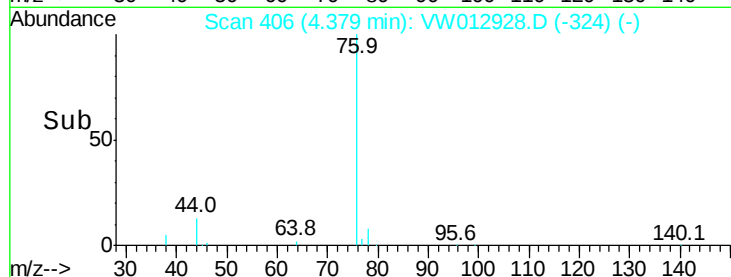
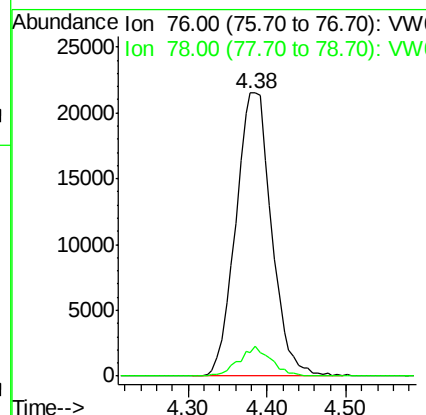
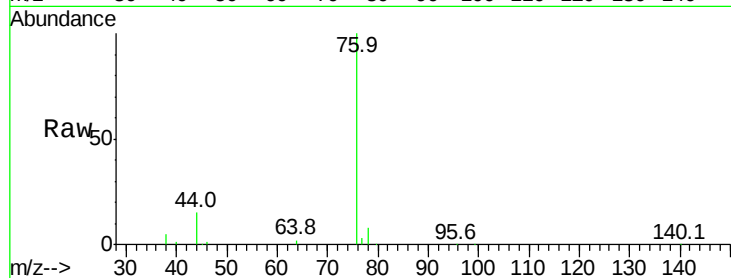
VSTD00502

Tgt Ion: 76 Resp: 67832

Ion Ratio Lower Upper

76 100

78 8.1 7.5 11.3



#15

Methyl Acetate

Concen: 1.503 ug/L

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW012928.D

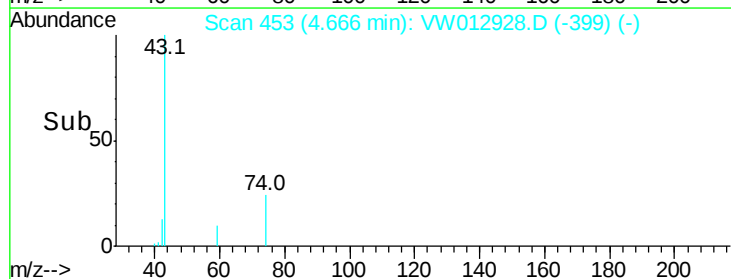
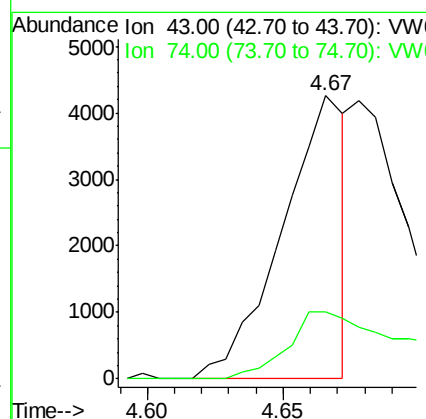
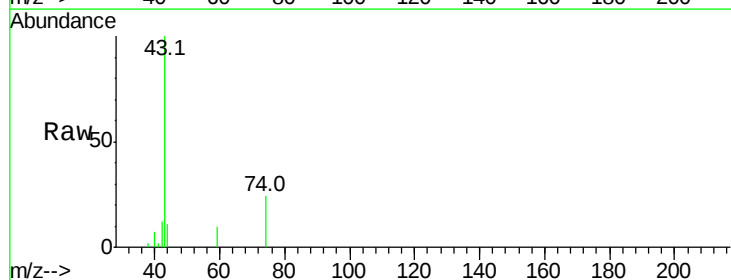
Acq: 12 Sep 2019 11:22

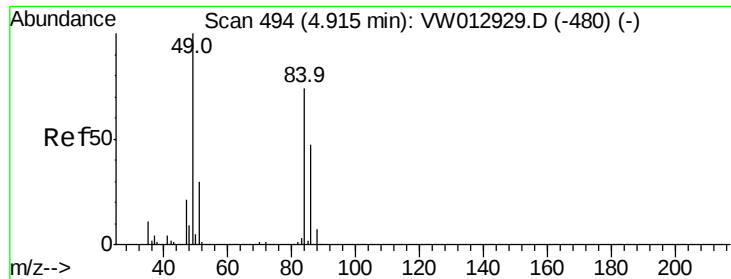
Tgt Ion: 43 Resp: 6924

Ion Ratio Lower Upper

43 100

74 32.4 16.6 25.0#

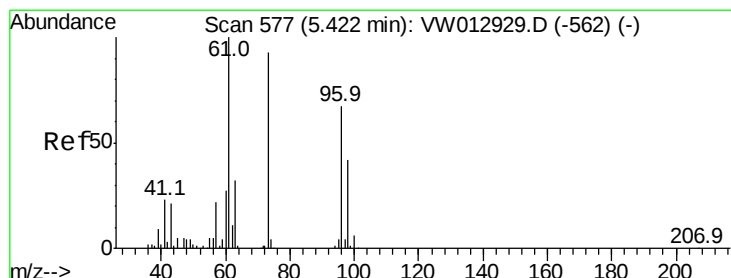
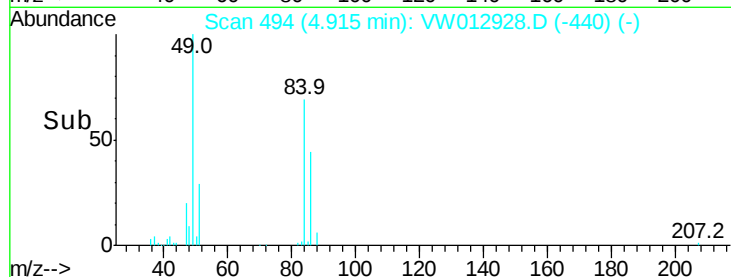
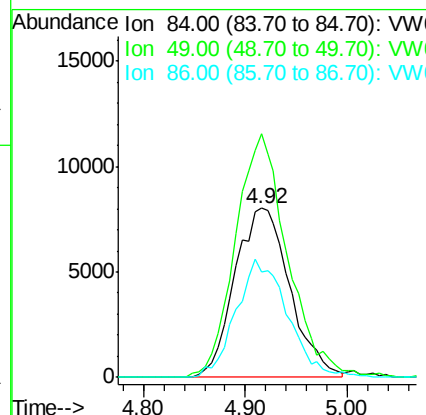
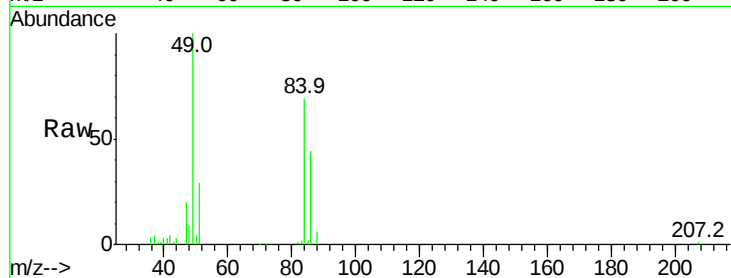




#16
Methylene chloride
Concen: 4.655 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW012928.D
Acq: 12 Sep 2019 11:22

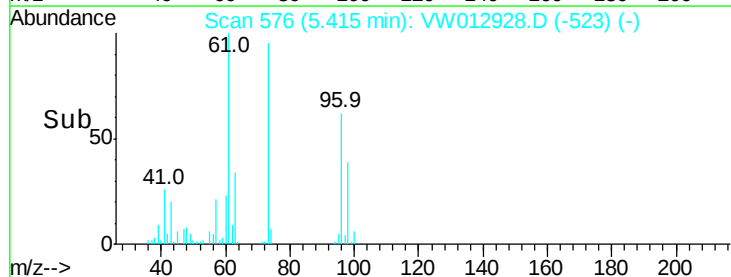
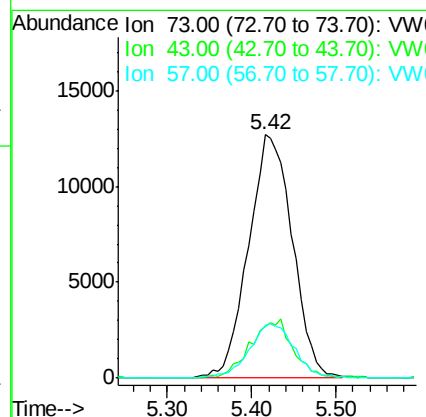
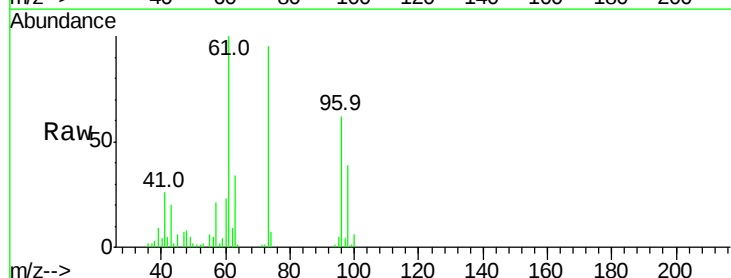
Instrument :
MSVOA_W
ClientSampled :
VSTD00502

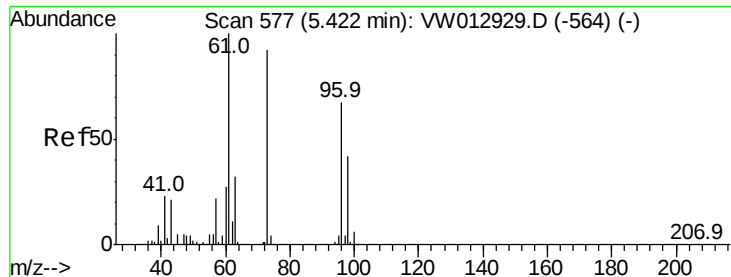
Tgt Ion: 84 Resp: 30141
Ion Ratio Lower Upper
84 100
49 144.0 94.7 175.9
86 62.7 44.4 82.4



#17
Methyl tert-butyl Ether
Concen: 4.545 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW012928.D
Acq: 12 Sep 2019 11:22

Tgt Ion: 73 Resp: 45101
Ion Ratio Lower Upper
73 100
43 13.3 18.0 27.0#
57 22.6 18.0 27.0

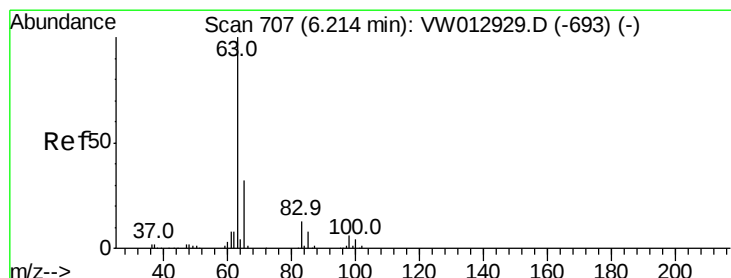
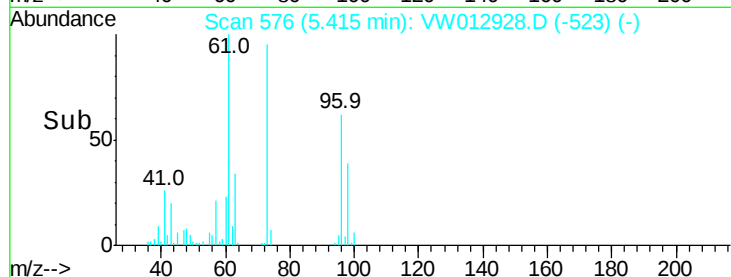
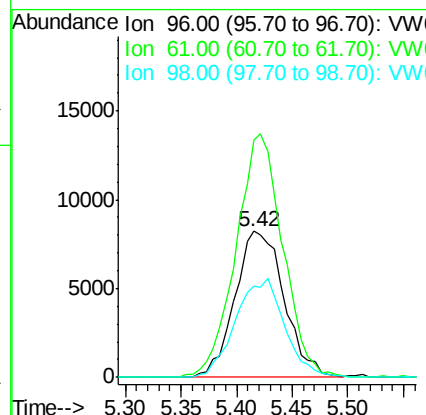
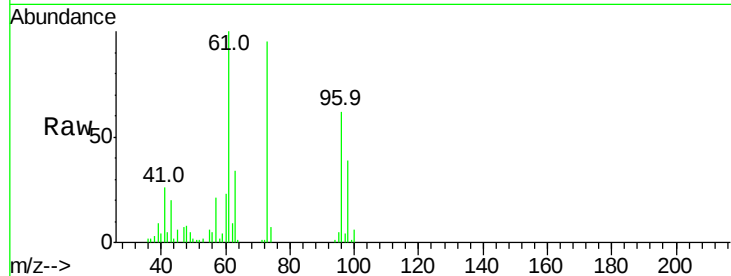




#18
 trans-1,2-Dichloroethene
 Concen: 4.097 ug/L
 RT: 5.42 min Scan# 576
 Delta R.T. -0.01 min
 Lab File: VW012928.D
 Acq: 12 Sep 2019 11:22

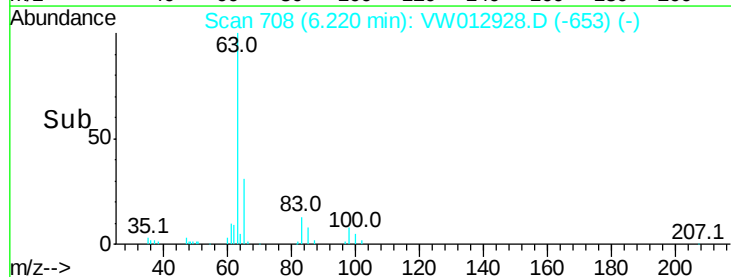
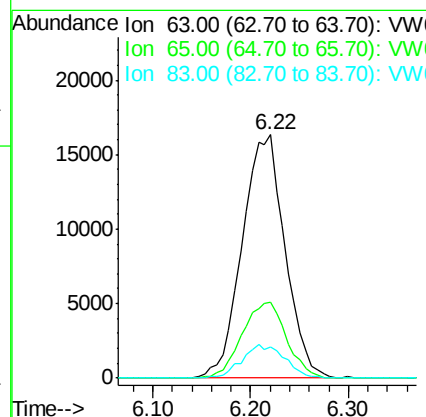
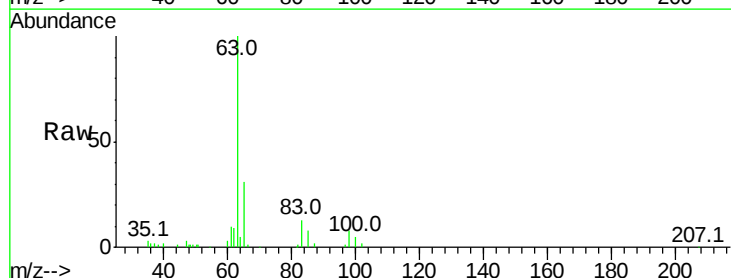
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

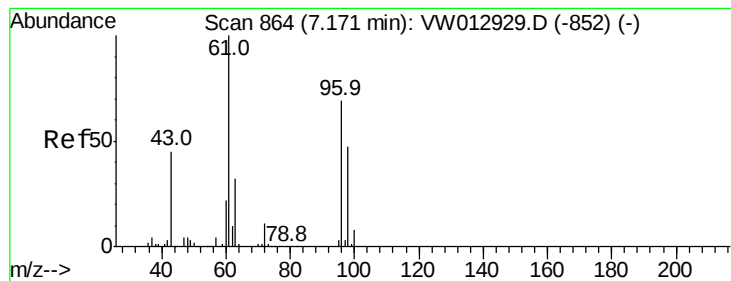
Tgt Ion: 96 Resp: 25228
 Ion Ratio Lower Upper
 96 100
 61 161.8 104.0 193.1
 98 62.7 44.0 81.8



#19
 1,1-Dichloroethane
 Concen: 4.032 ug/L
 RT: 6.22 min Scan# 708
 Delta R.T. 0.01 min
 Lab File: VW012928.D
 Acq: 12 Sep 2019 11:22

Tgt Ion: 63 Resp: 49594
 Ion Ratio Lower Upper
 63 100
 65 31.4 22.0 41.0
 83 12.9 8.9 16.5





#21

2-Butanone

Concen: 5.108 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Instrument :

MSVOA_W

ClientSampled :

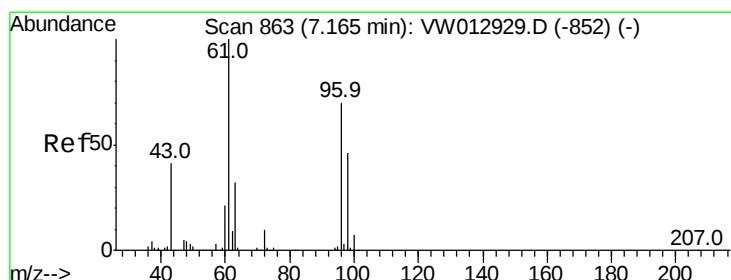
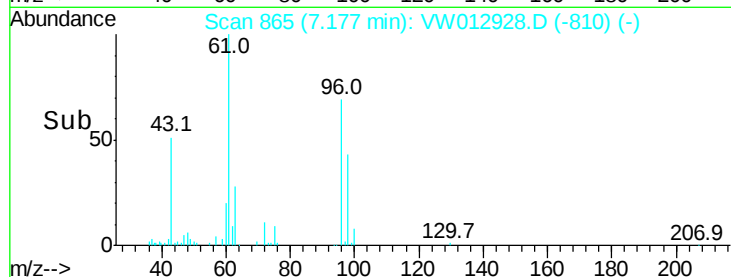
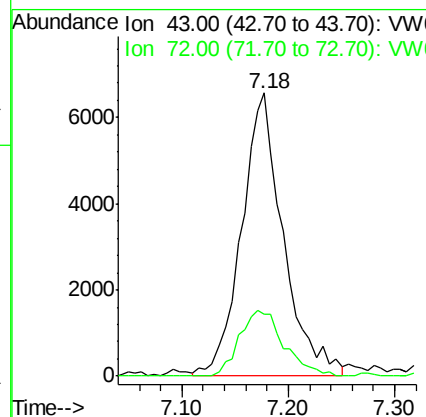
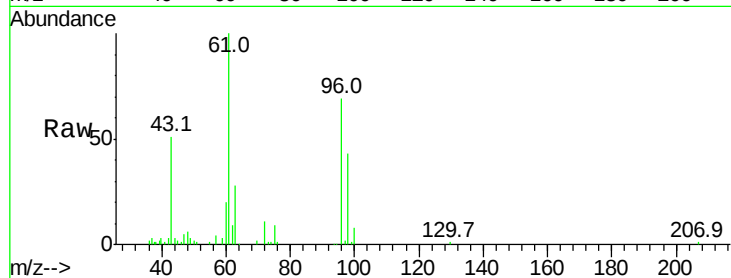
VSTD00502

Tgt Ion: 43 Resp: 18043

Ion Ratio Lower Upper

43 100

72 24.8 12.7 38.1



#22

cis-1,2-Dichloroethene

Concen: 4.470 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

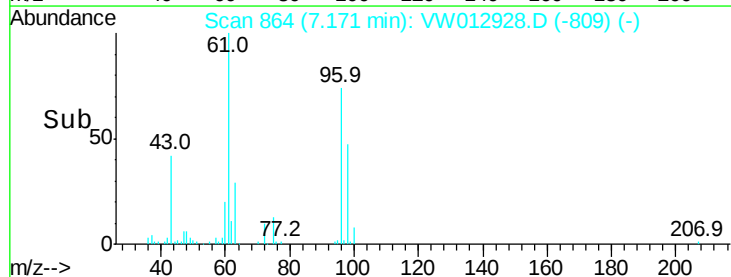
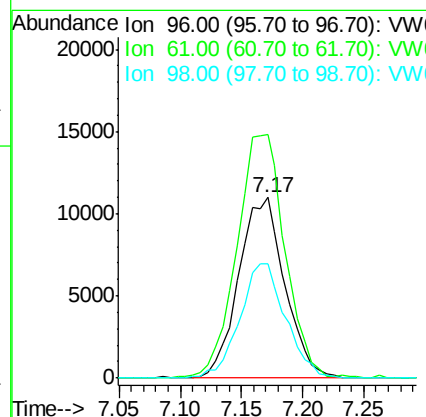
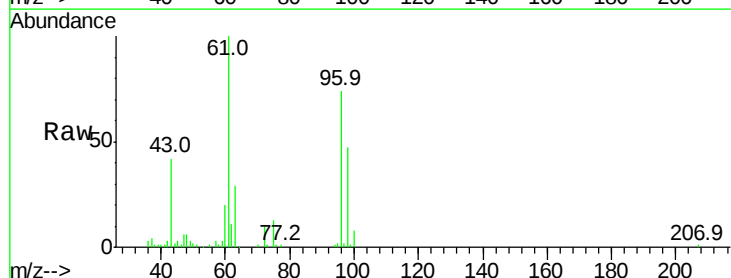
Tgt Ion: 96 Resp: 28791

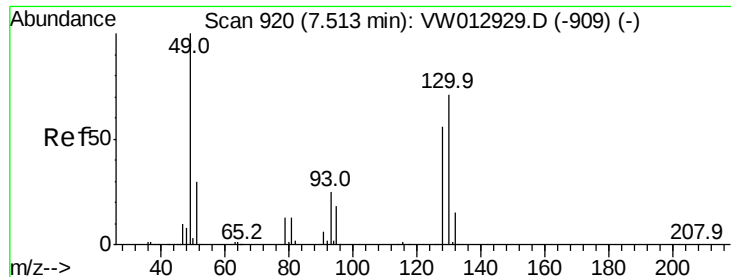
Ion Ratio Lower Upper

96 100

61 134.7 99.5 184.7

98 62.9 45.6 84.6

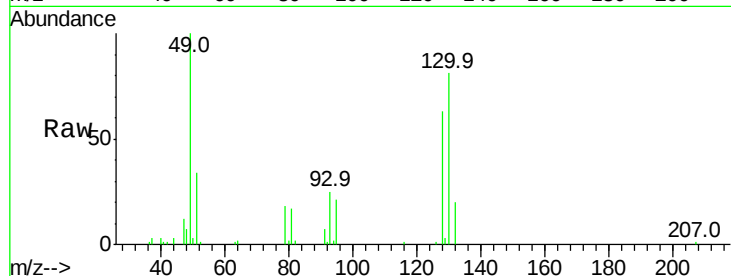




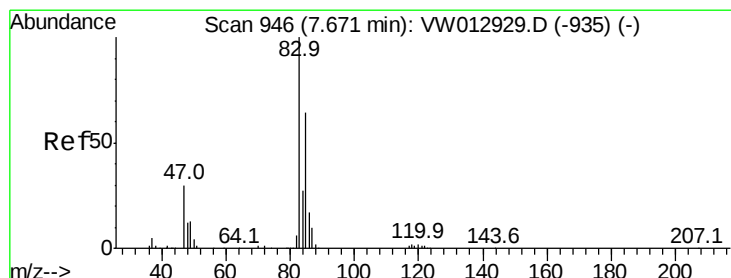
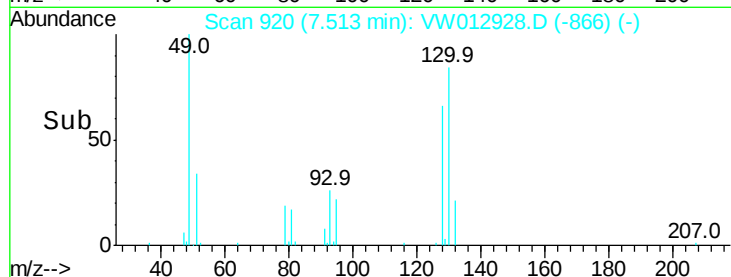
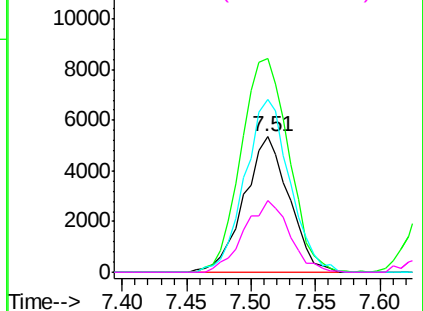
#23
Bromochloromethane
Concen: 4.734 ug/L
RT: 7.51 min Scan# 920
Delta R.T. -0.00 min
Lab File: VW012928.D
Acq: 12 Sep 2019 11:22

Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

Tgt Ion:128 Resp: 12975
Ion Ratio Lower Upper
128 100
49 157.6 125.7 233.5
130 127.6 89.0 165.4
51 53.1 42.9 64.3

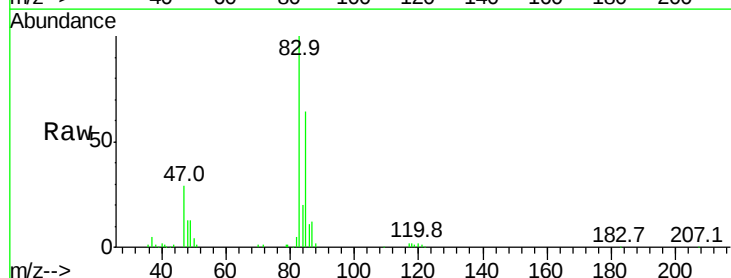


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VW
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VW

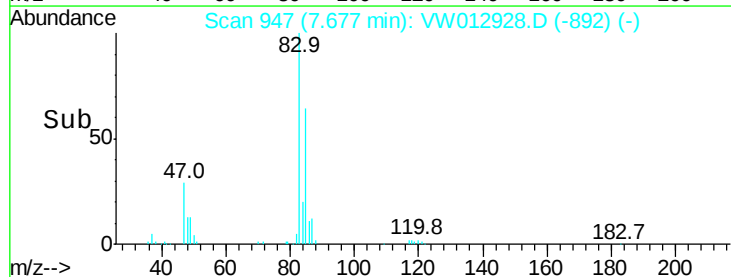
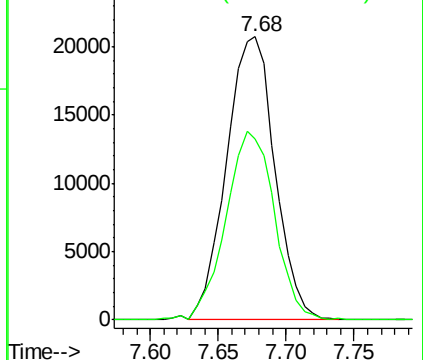


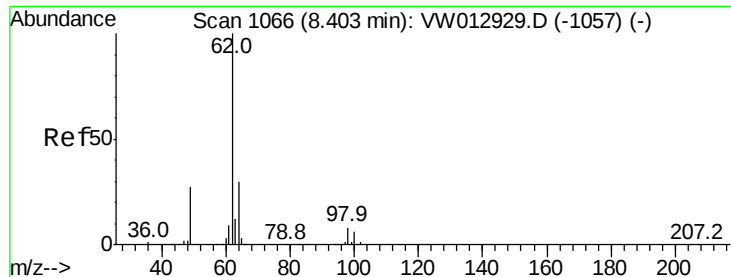
#25
Chloroform
Concen: 4.541 ug/L
RT: 7.68 min Scan# 947
Delta R.T. 0.01 min
Lab File: VW012928.D
Acq: 12 Sep 2019 11:22

Tgt Ion: 83 Resp: 51480
Ion Ratio Lower Upper
83 100
85 66.4 45.3 84.1



Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 85.00 (84.70 to 85.70): VW





#27

1,2-Dichloroethane

Concen: 4.153 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Instrument :

MSVOA_W

ClientSampleId :

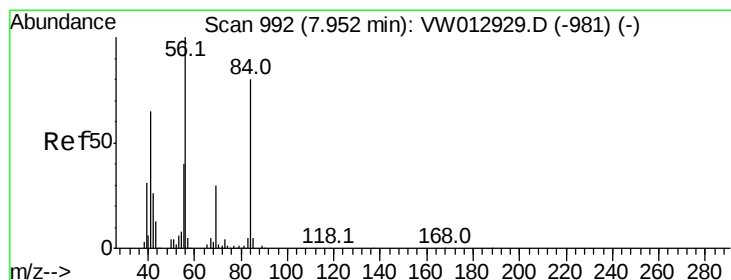
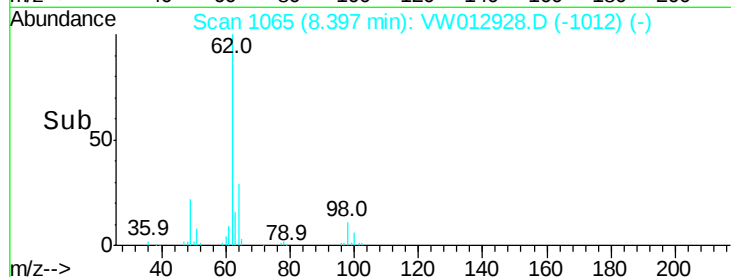
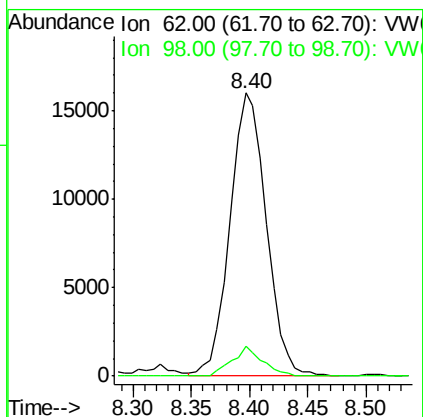
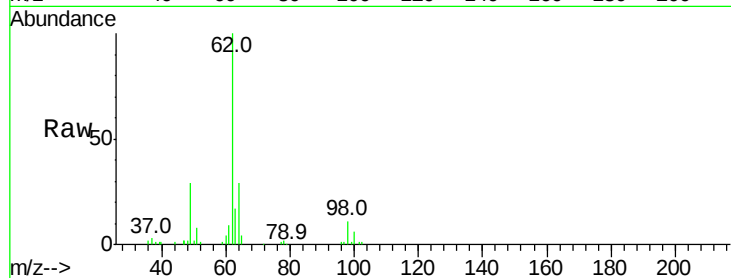
VSTD00502

Tgt Ion: 62 Resp: 34853

Ion Ratio Lower Upper

62 100

98 10.5 6.7 10.1#



#30

Cyclohexane

Concen: 3.645 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

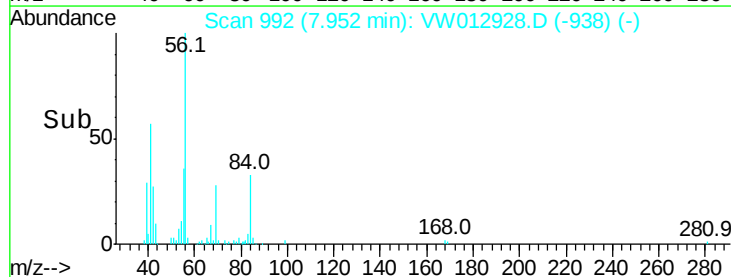
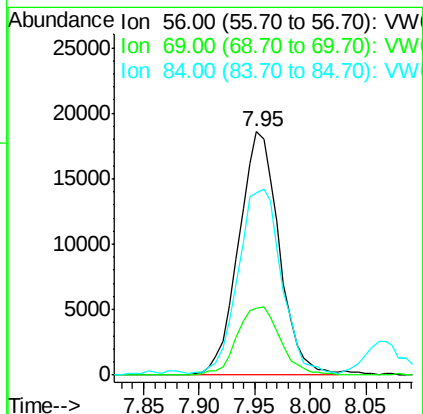
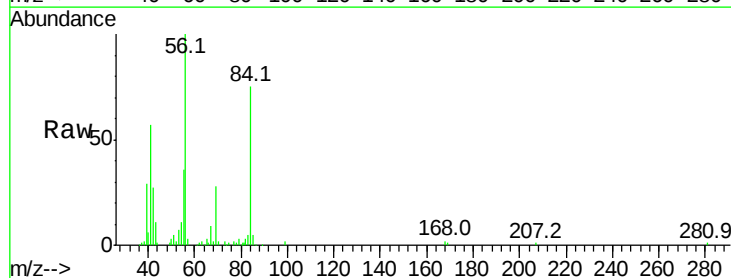
Tgt Ion: 56 Resp: 46870

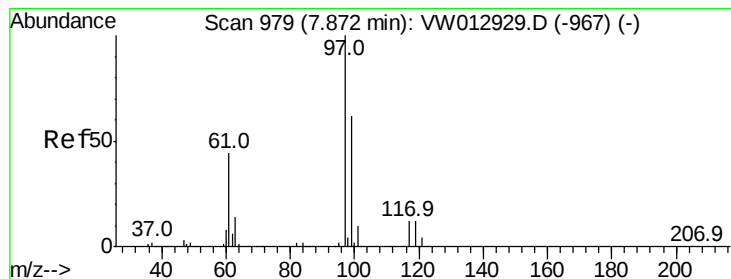
Ion Ratio Lower Upper

56 100

69 29.6 23.8 35.8

84 82.7 66.6 99.8





#31

1,1,1-Trichloroethane

Concen: 4.646 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

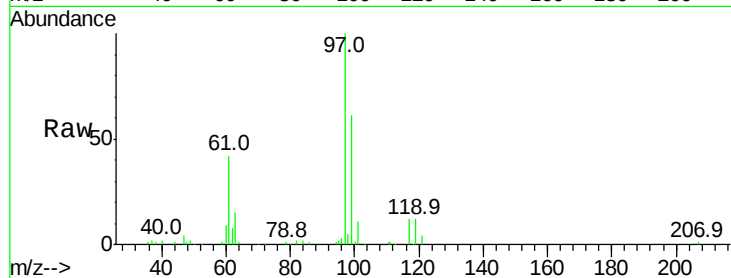
Tgt Ion: 97 Resp: 41873

Ion Ratio Lower Upper

97 100

99 61.1 50.3 75.5

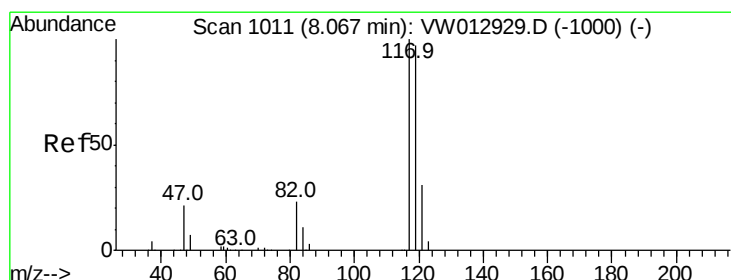
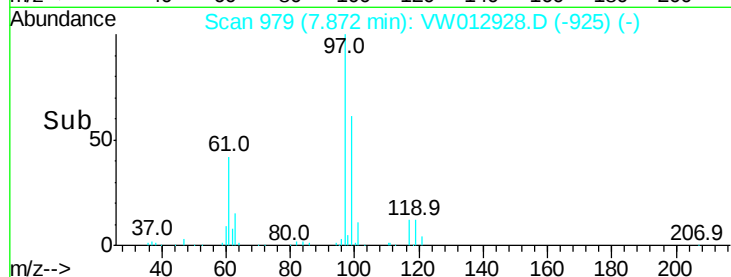
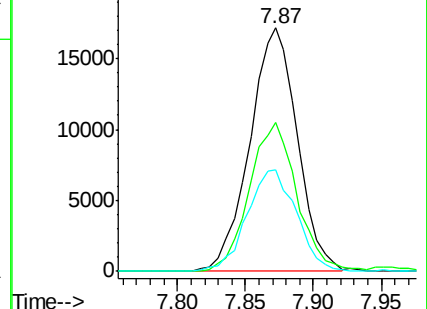
61 43.5 36.3 54.5



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: 4.494 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW012928.D

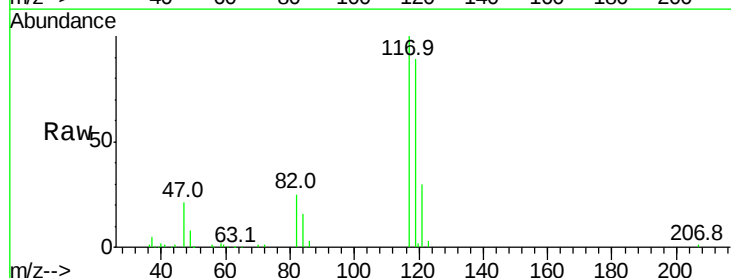
Acq: 12 Sep 2019 11:22

Tgt Ion: 117 Resp: 38109

Ion Ratio Lower Upper

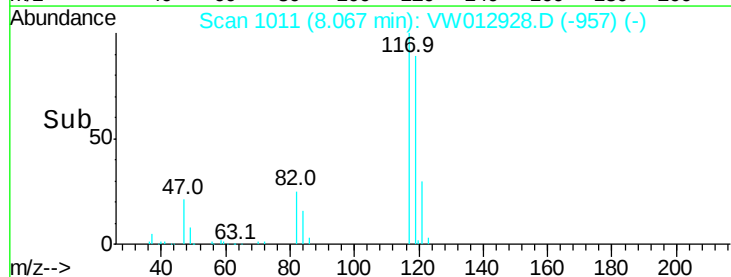
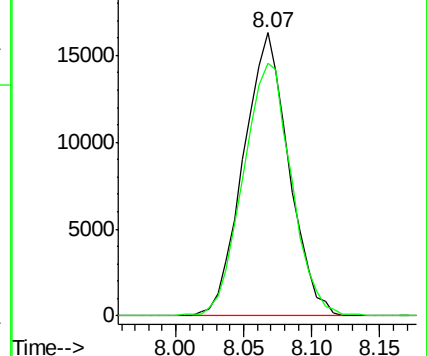
117 100

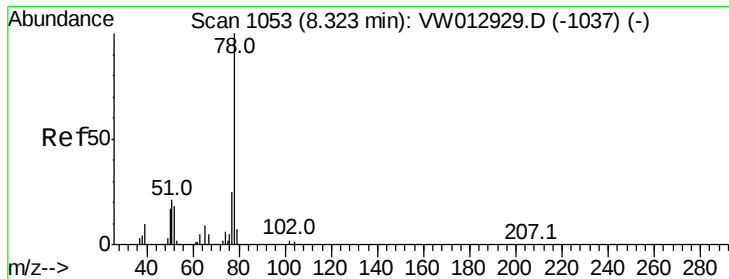
119 94.6 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 4.273 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

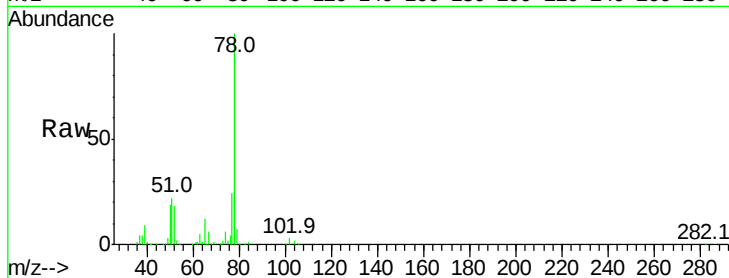
Instrument :

MSVOA_W

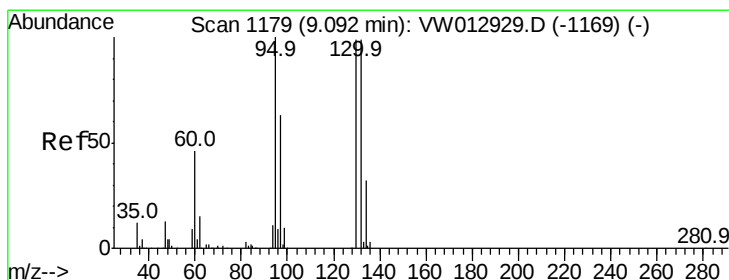
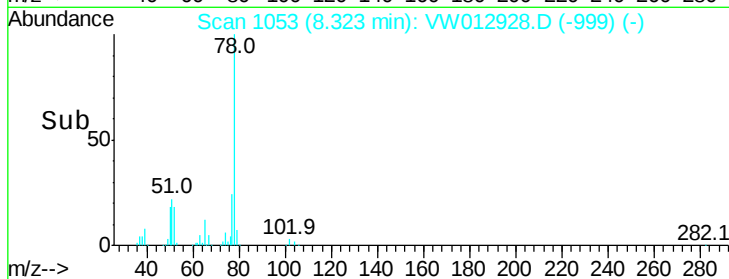
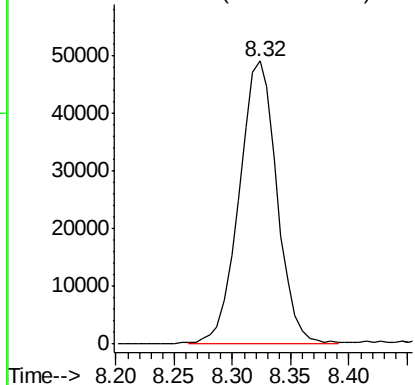
ClientSampleId :

VSTD00502

Tgt Ion: 78 Resp: 110768



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 4.455 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Tgt Ion: 95 Resp: 29315

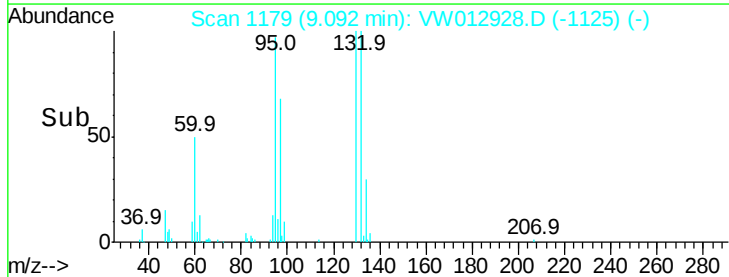
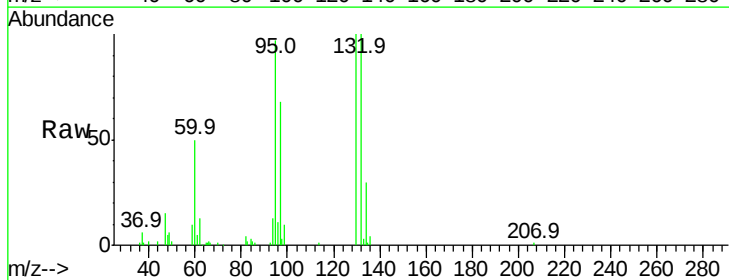
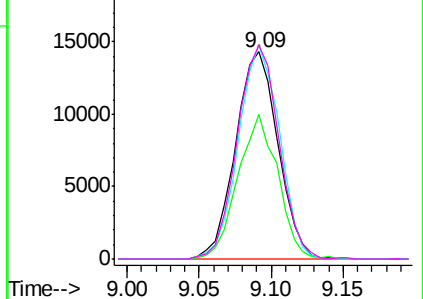
Ion	Ratio	Lower	Upper
95	100		
97	65.5	44.6	82.8
132	99.6	67.8	125.8
130	101.0	72.2	134.2

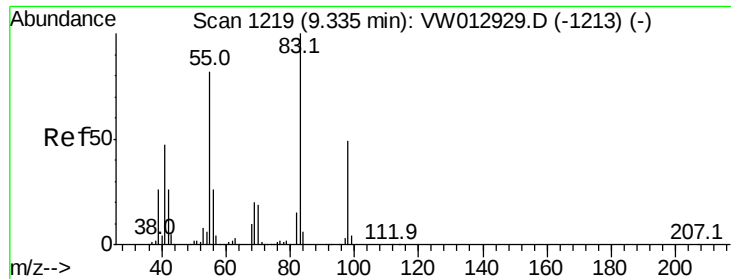
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

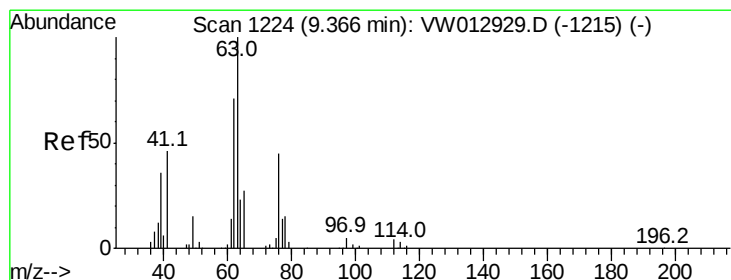
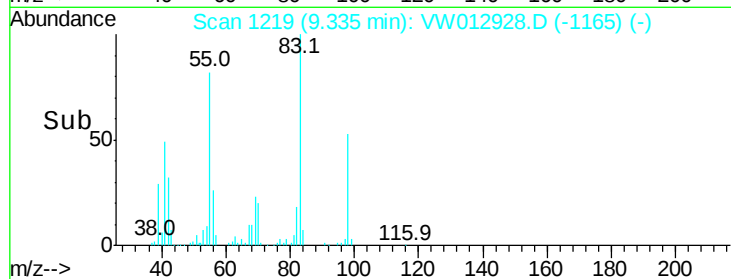
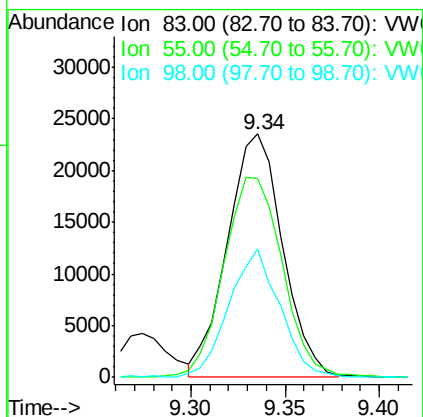
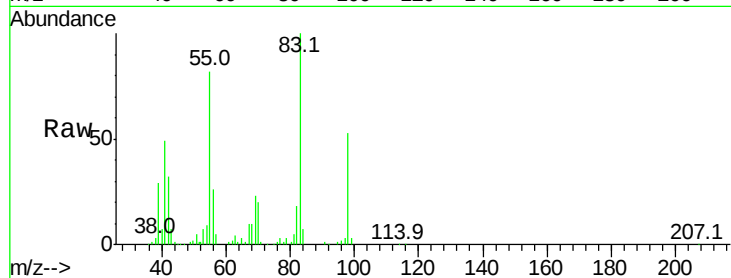




#36
Methylcyclohexane
Concen: 4.014 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW012928.D
Acq: 12 Sep 2019 11:22

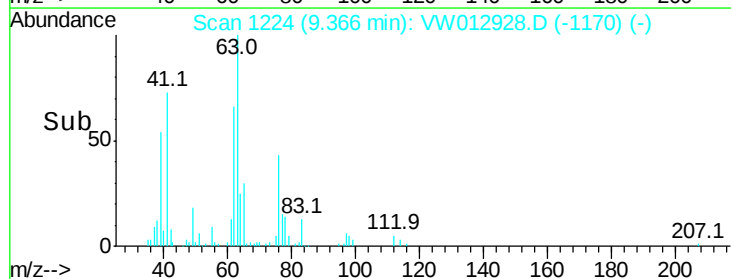
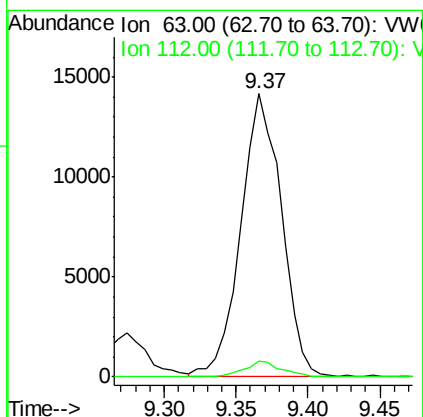
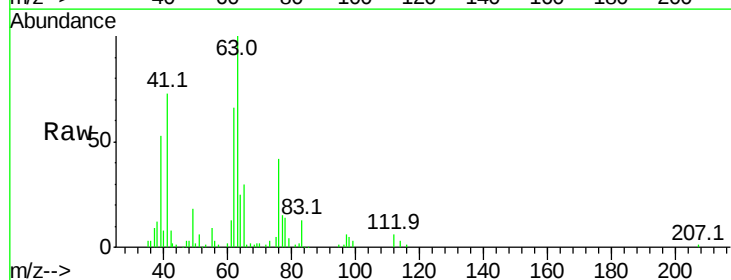
Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

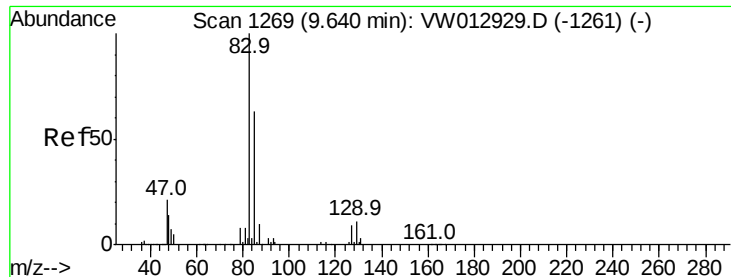
Tgt Ion: 83 Resp: 47918
Ion Ratio Lower Upper
83 100
55 87.5 68.3 102.5
98 48.5 38.5 57.7



#40
1,2-Dichloropropane
Concen: 4.014 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VW012928.D
Acq: 12 Sep 2019 11:22

Tgt Ion: 63 Resp: 27773
Ion Ratio Lower Upper
63 100
112 4.8 3.8 5.8





#41

Bromodichloromethane

Concen: 4.329 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

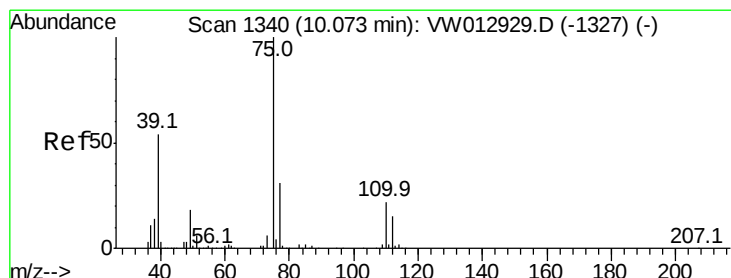
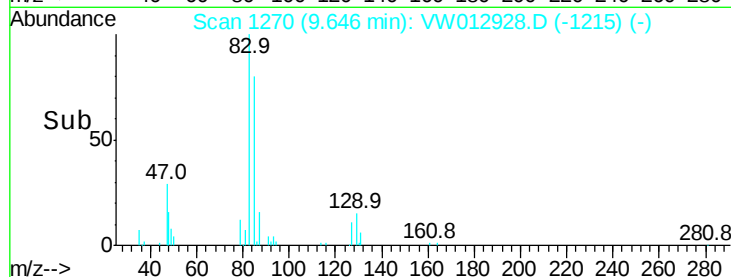
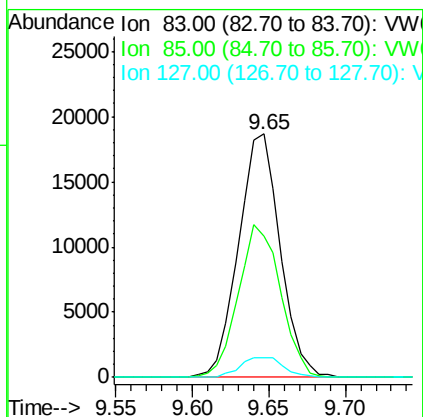
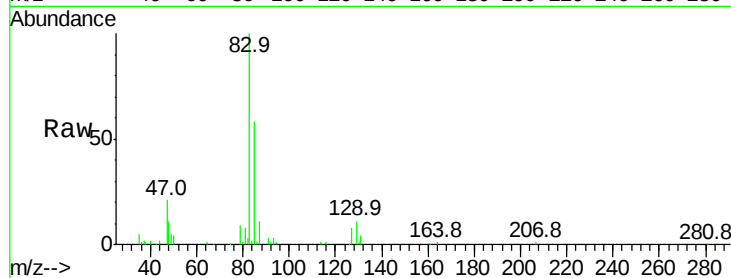
Tgt Ion: 83 Resp: 35348

Ion Ratio Lower Upper

83 100

85 57.8 44.4 82.4

127 8.1 7.0 10.6



#42

cis-1,3-Dichloropropene

Concen: 4.148 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW012928.D

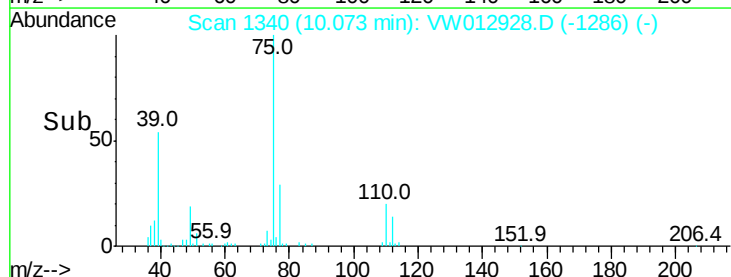
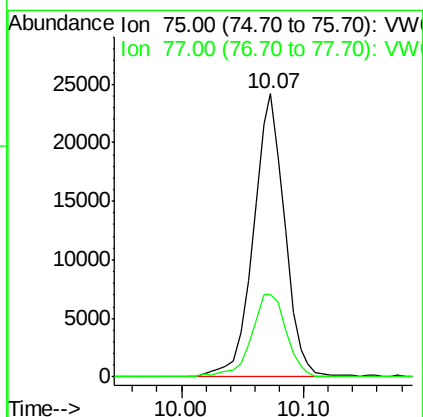
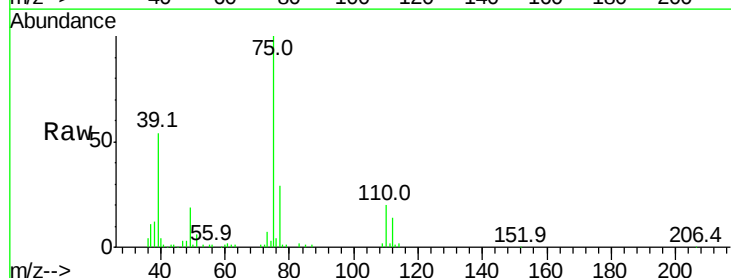
Acq: 12 Sep 2019 11:22

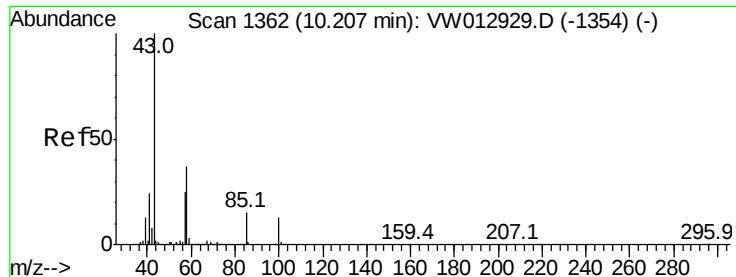
Tgt Ion: 75 Resp: 42926

Ion Ratio Lower Upper

75 100

77 29.3 21.6 40.0

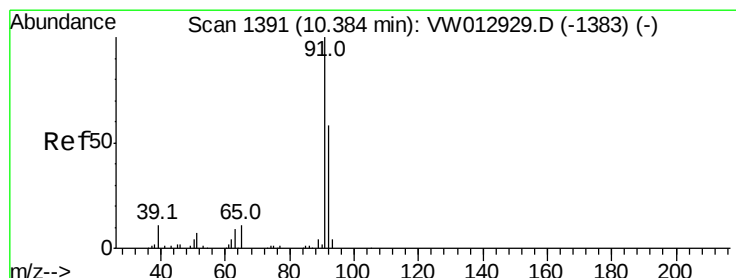
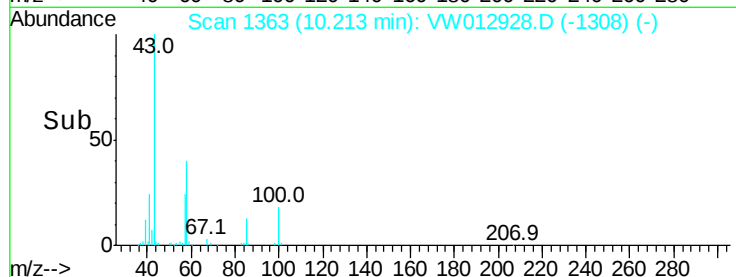
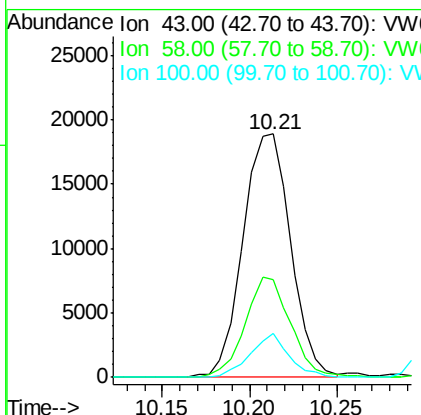
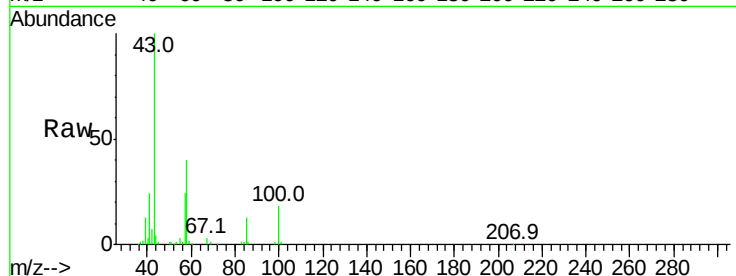




#43
 4-Methyl-2-pentanone
 Concen: 5.709 ug/L
 RT: 10.21 min Scan# 1363
 Delta R.T. 0.01 min
 Lab File: VW012928.D
 Acq: 12 Sep 2019 11:22

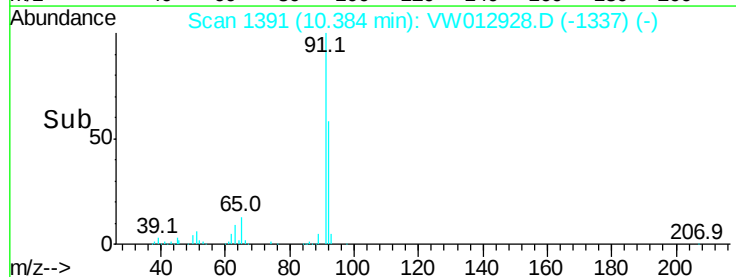
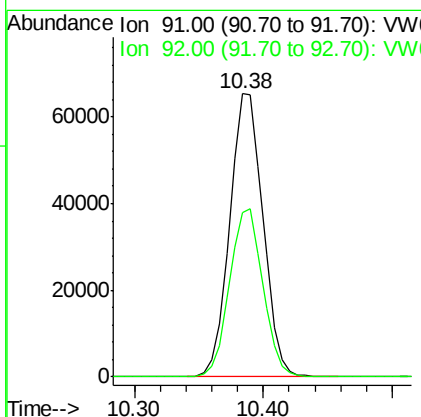
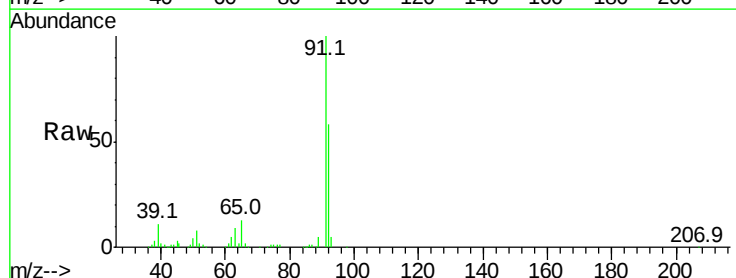
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

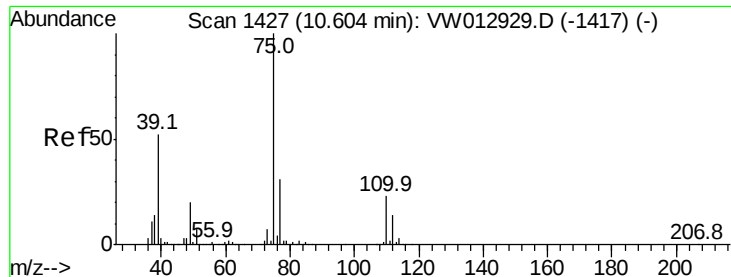
Tgt Ion: 43 Resp: 35791
 Ion Ratio Lower Upper
 43 100
 58 39.4 29.5 44.3
 100 14.8 11.5 17.3



#44
 Toluene
 Concen: 4.454 ug/L
 RT: 10.38 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VW012928.D
 Acq: 12 Sep 2019 11:22

Tgt Ion: 91 Resp: 117286
 Ion Ratio Lower Upper
 91 100
 92 58.2 40.7 75.5





#45

trans-1,3-Dichloropropene

Concen: 4.034 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Instrument :

MSVOA_W

ClientSampleId :

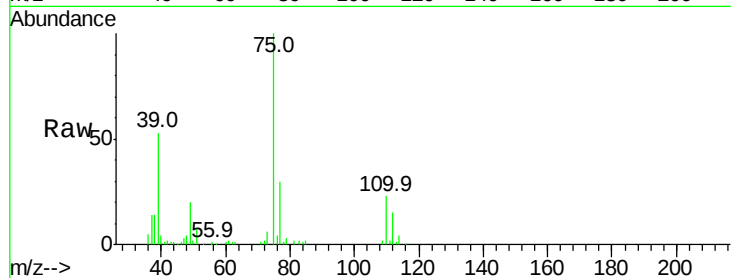
VSTD00502

Tgt Ion: 75 Resp: 34737

Ion Ratio Lower Upper

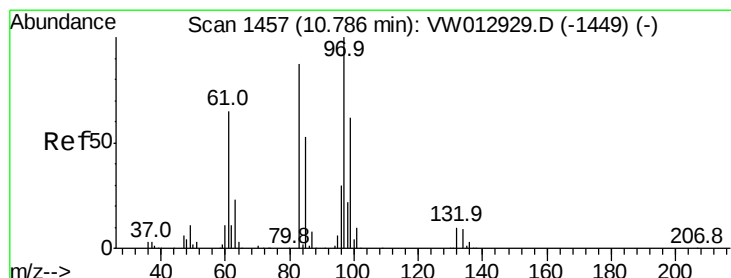
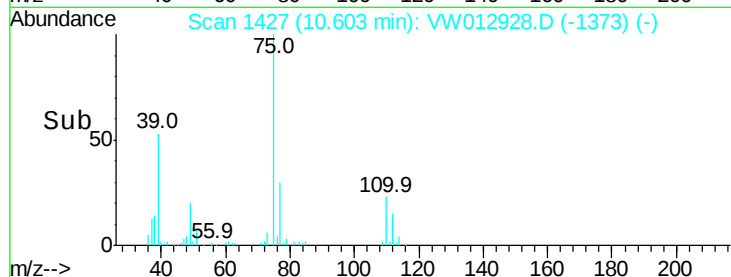
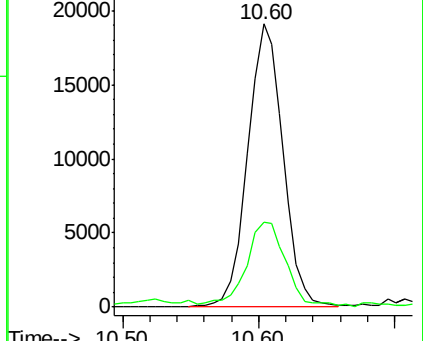
75 100

77 30.1 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#46

1,1,2-Trichloroethane

Concen: 4.125 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Tgt Ion: 97 Resp: 19459

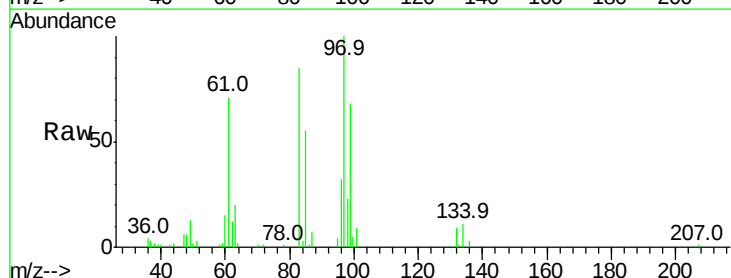
Ion Ratio Lower Upper

97 100

83 85.5 60.6 112.6

85 55.3 37.5 69.6

99 68.5 43.2 80.2

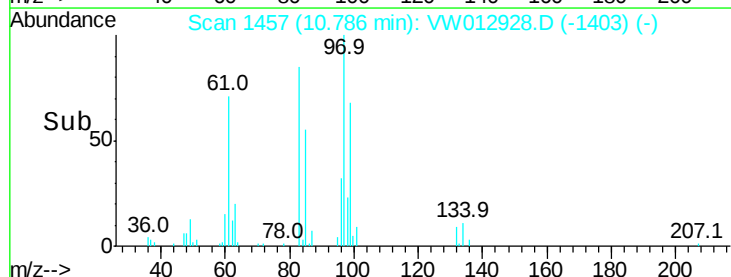
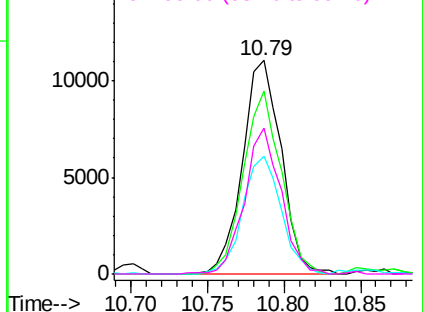


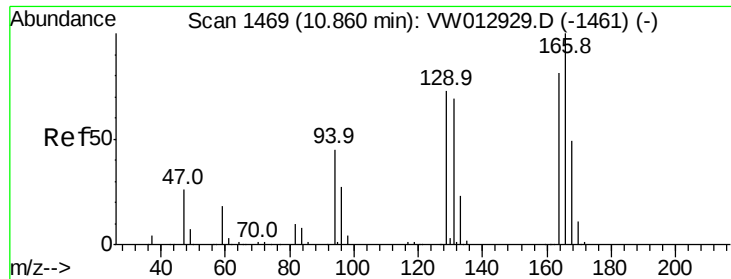
Abundance Ion 97.00 (96.70 to 97.70): VW

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: 5.009 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Instrument :

MSVOA_W

ClientSampled :

VSTD00502

Tgt Ion:164 Resp: 25178

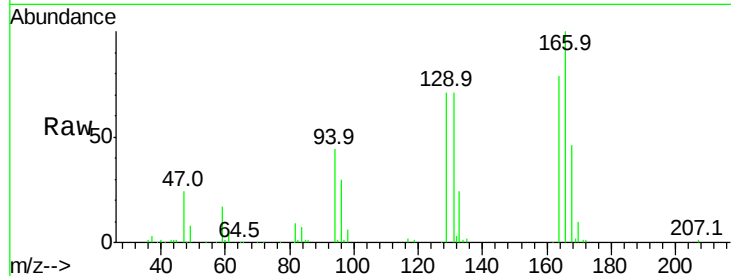
Ion Ratio Lower Upper

164 100

129 90.2 62.6 116.3

131 89.8 60.0 111.4

166 126.8 86.5 160.6

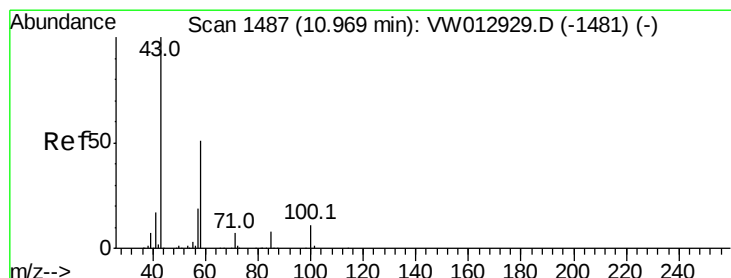
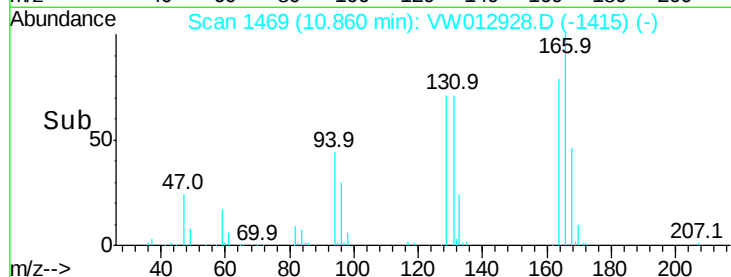
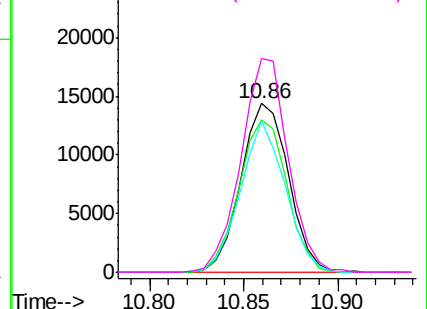


Abundance Ion 164.00 (163.70 to 164.70): V

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: 5.637 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Tgt Ion: 43 Resp: 27229

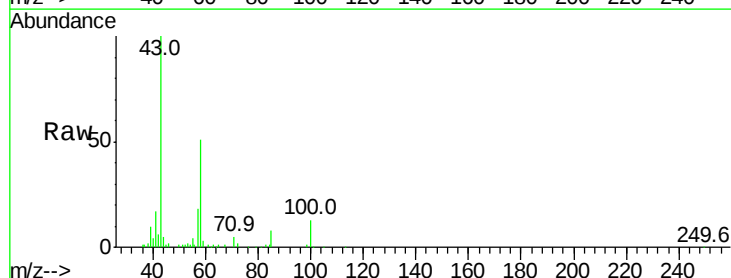
Ion Ratio Lower Upper

43 100

58 52.4 42.4 63.6

57 18.3 15.0 22.6

100 12.0 9.0 13.6

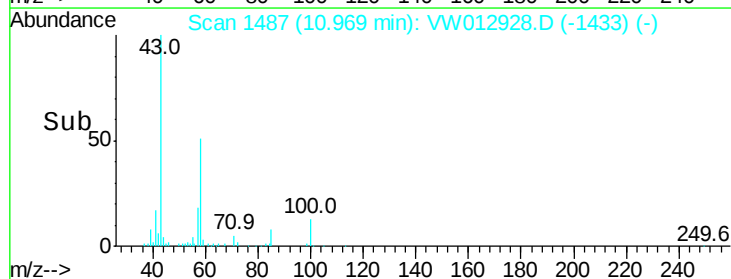
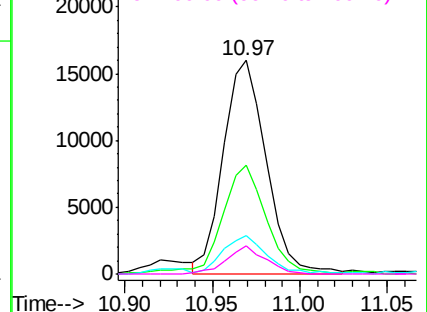


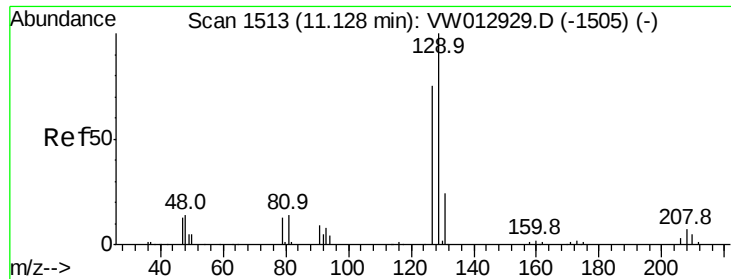
Abundance Ion 43.00 (42.70 to 43.70): VV

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

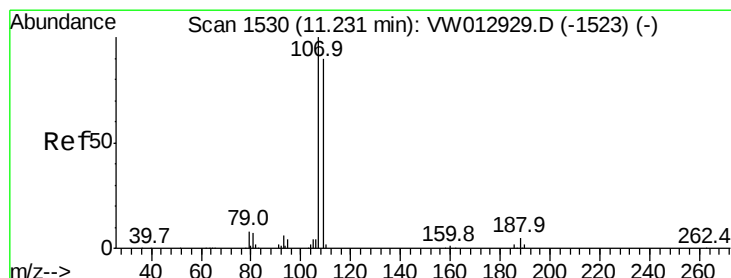
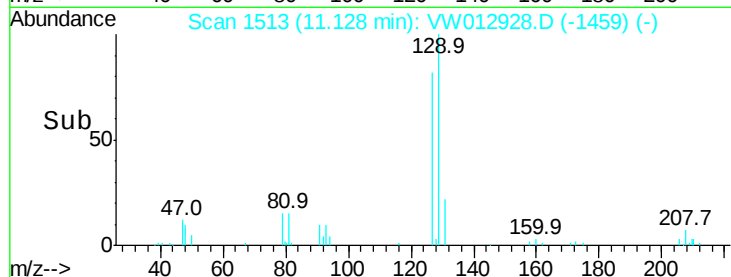
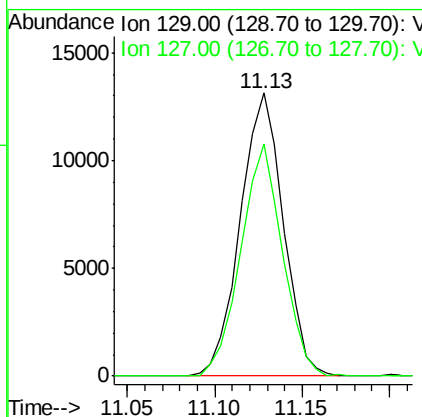
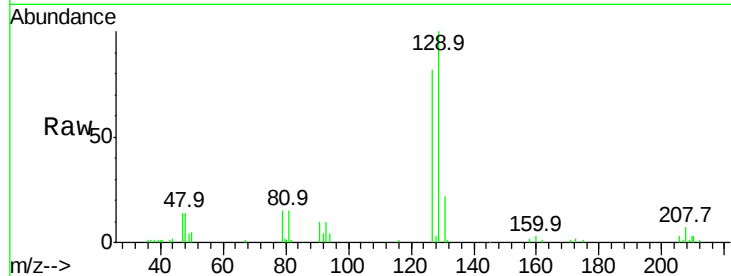




#50
 Dibromochloromethane
 Concen: 4.313 ug/L
 RT: 11.13 min Scan# 1513
 Delta R.T. -0.00 min
 Lab File: VW012928.D
 Acq: 12 Sep 2019 11:22

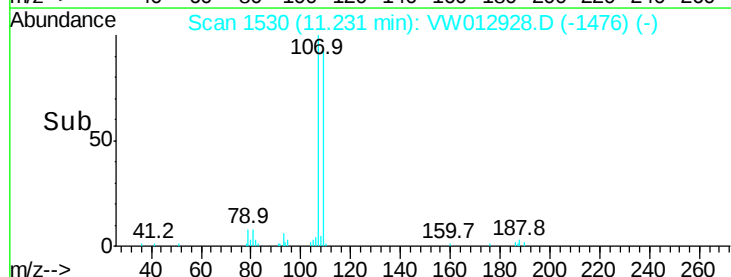
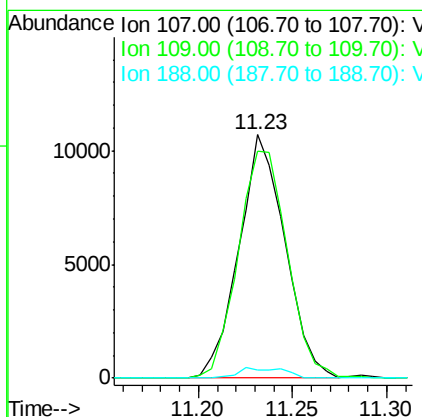
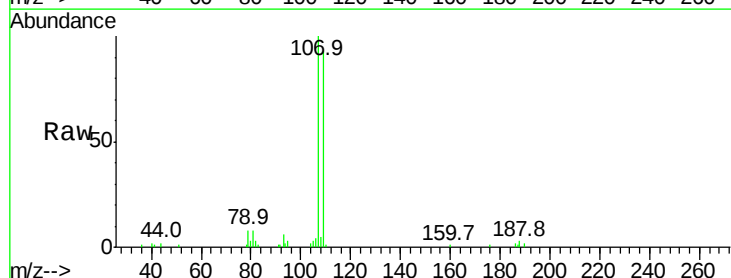
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

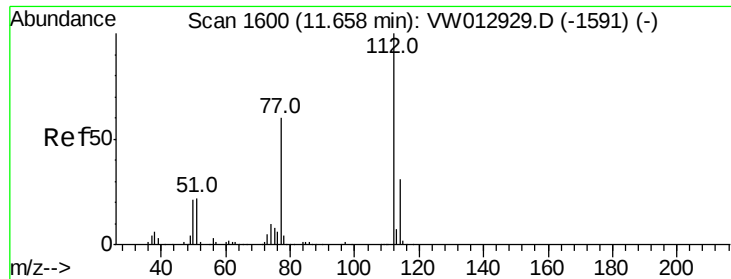
Tgt Ion:129 Resp: 22427
 Ion Ratio Lower Upper
 129 100
 127 81.8 52.7 97.9



#51
 1,2-Dibromoethane
 Concen: 3.959 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.00 min
 Lab File: VW012928.D
 Acq: 12 Sep 2019 11:22

Tgt Ion:107 Resp: 18175
 Ion Ratio Lower Upper
 107 100
 109 93.4 62.6 116.3
 188 3.1 4.2 6.2#





#52

Chlorobenzene

Concen: 4.797 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

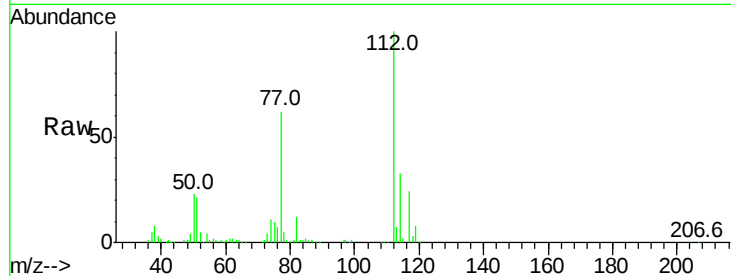
Tgt Ion: 112 Resp: 76211

Ion Ratio Lower Upper

112 100

77 62.0 47.7 71.5

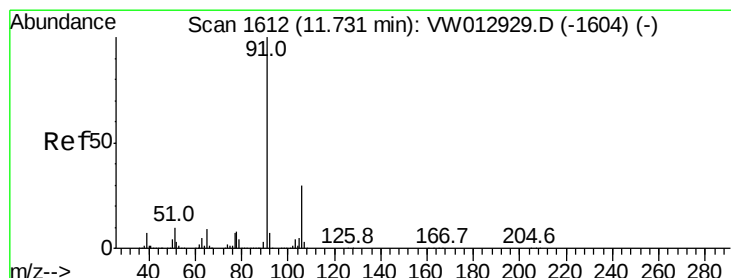
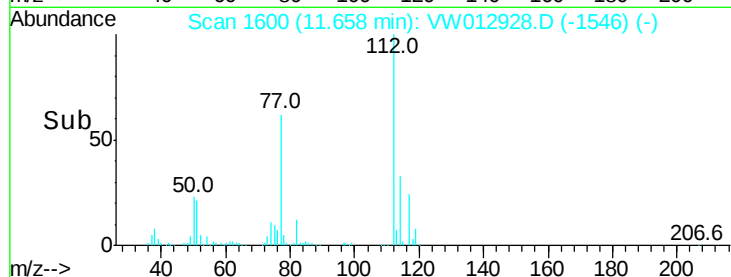
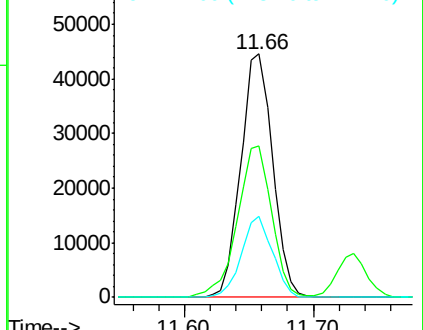
114 33.1 21.6 40.0



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: 4.564 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW012928.D

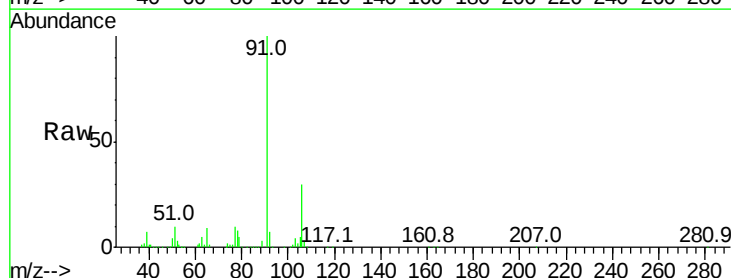
Acq: 12 Sep 2019 11:22

Tgt Ion: 91 Resp: 134032

Ion Ratio Lower Upper

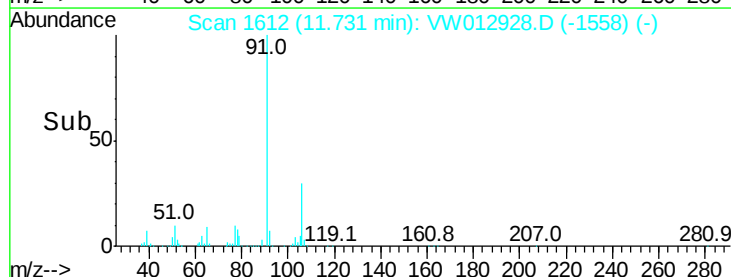
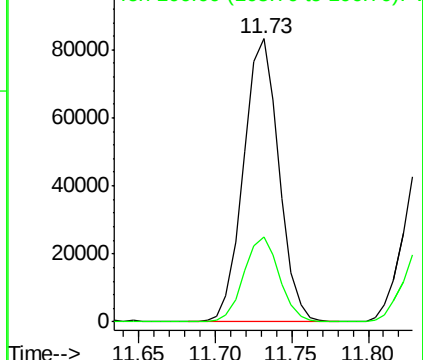
91 100

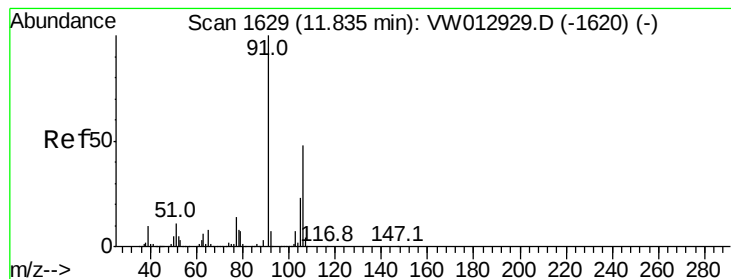
106 30.2 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 4.744 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Instrument :

MSVOA_W

ClientSampleId :

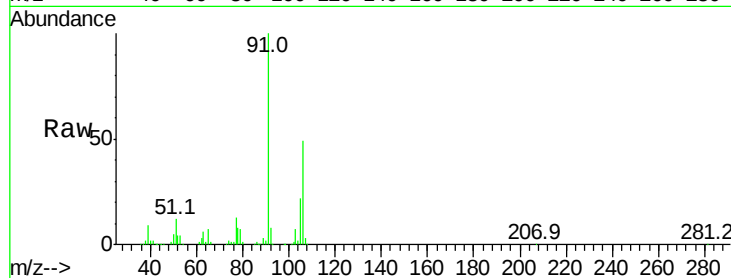
VSTD00502

Tgt Ion:106 Resp: 50658

Ion Ratio Lower Upper

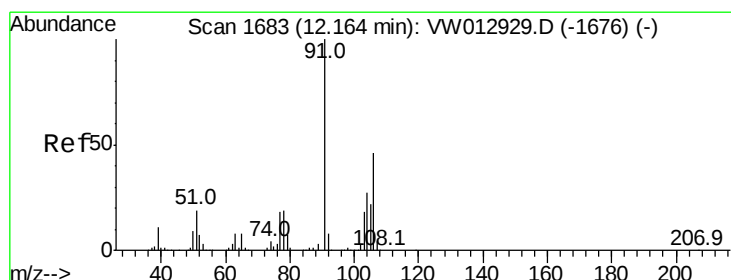
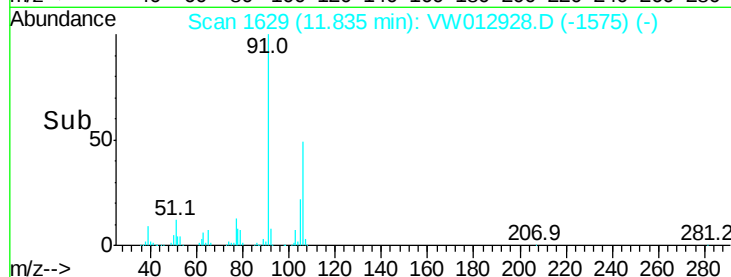
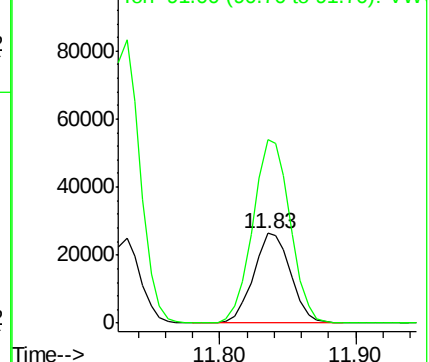
106 100

91 203.6 145.0 269.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 4.662 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW012928.D

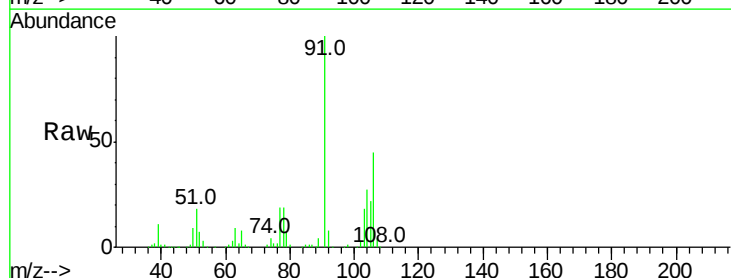
Acq: 12 Sep 2019 11:22

Tgt Ion:106 Resp: 46854

Ion Ratio Lower Upper

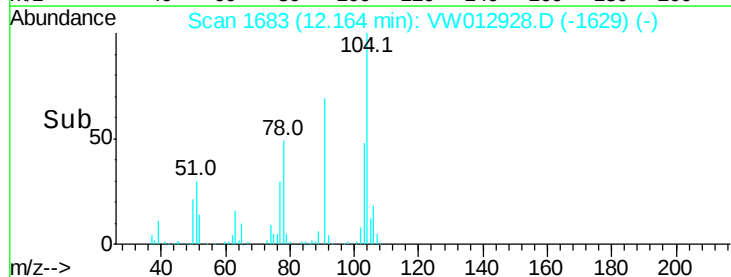
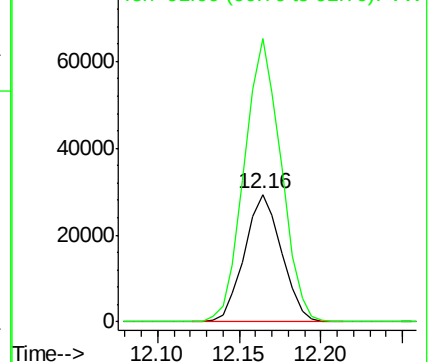
106 100

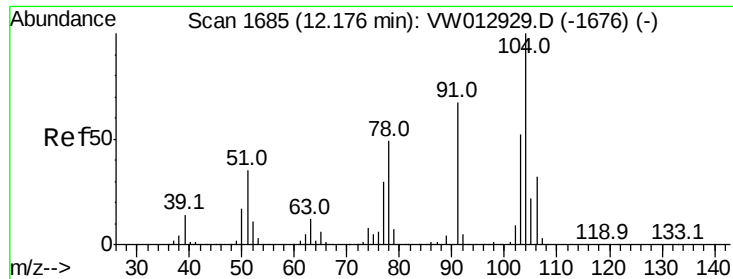
91 221.5 153.2 284.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Styrene

Concen: 4.644 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Instrument :

MSVOA_W

ClientSampleId :

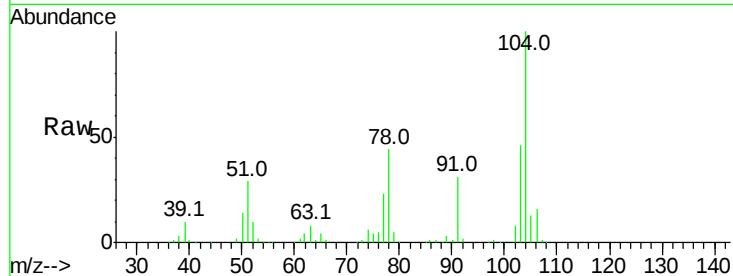
VSTD00502

Tgt Ion:104 Resp: 79345

Ion Ratio Lower Upper

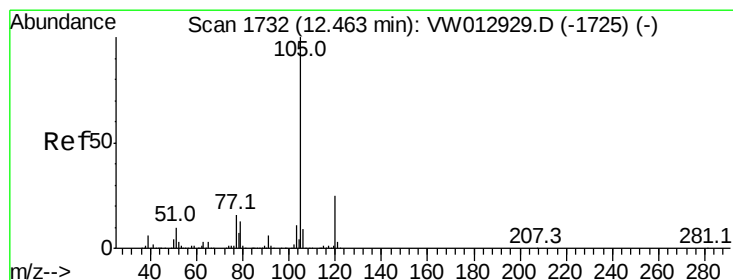
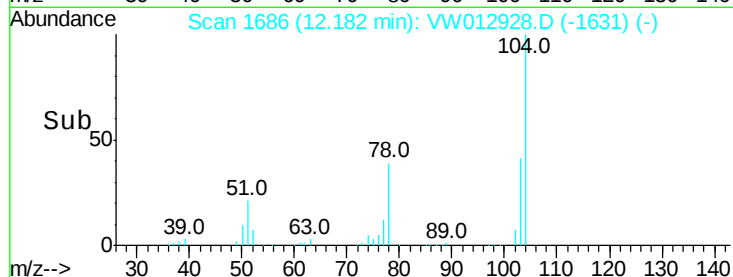
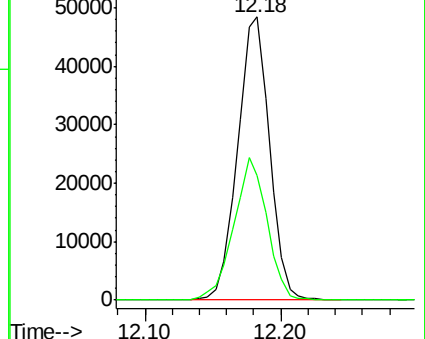
104 100

78 44.2 34.5 64.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



#57

Isopropylbenzene

Concen: 4.679 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

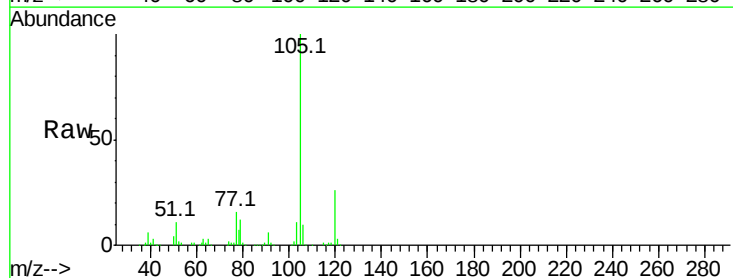
Tgt Ion:105 Resp: 129367

Ion Ratio Lower Upper

105 100

120 25.2 20.6 31.0

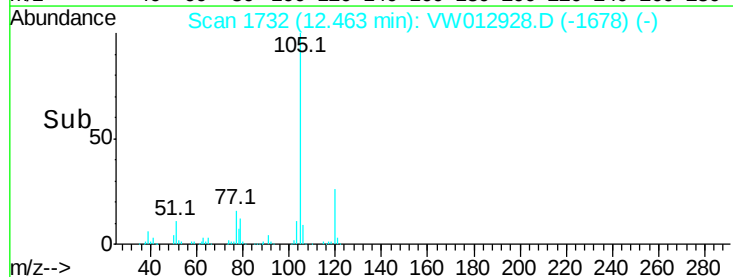
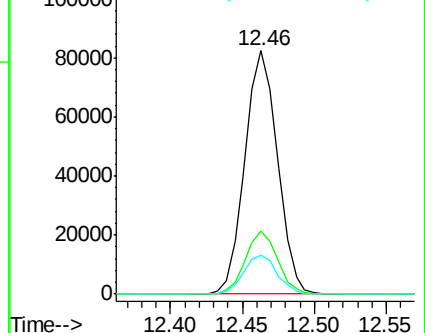
77 16.5 12.9 19.3

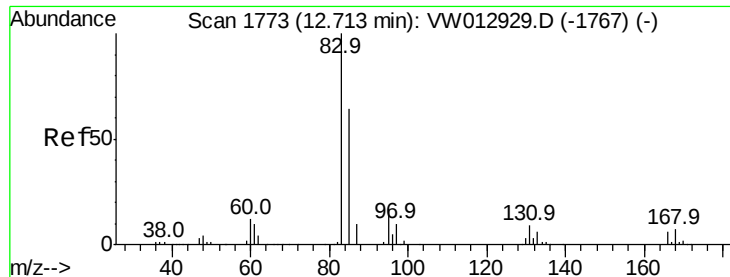


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VW





#58

1,1,2,2-Tetrachloroethane

Concen: 3.560 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

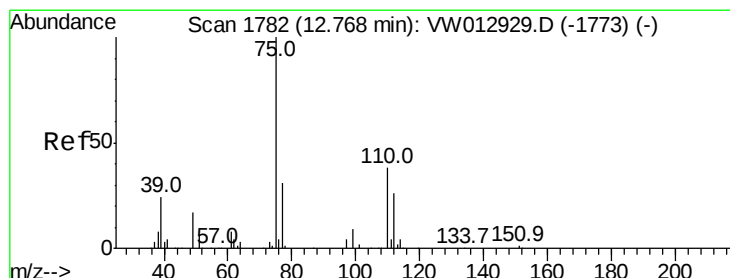
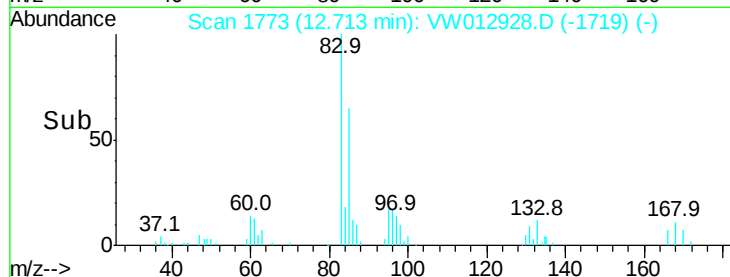
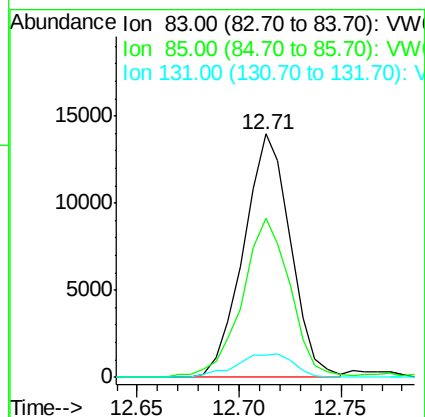
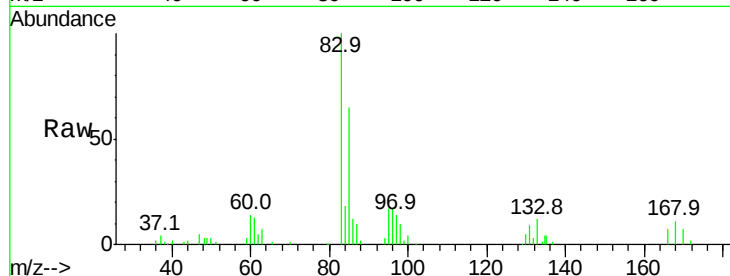
Tgt Ion: 83 Resp: 22315

Ion Ratio Lower Upper

83 100

85 65.3 44.9 83.5

131 9.3 8.0 12.0



#59

1,2,3-Trichloropropane

Concen: 3.444 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW012928.D

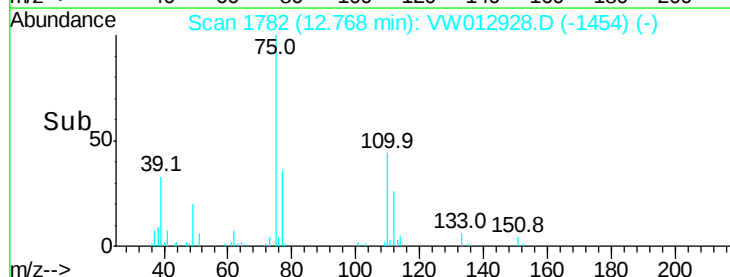
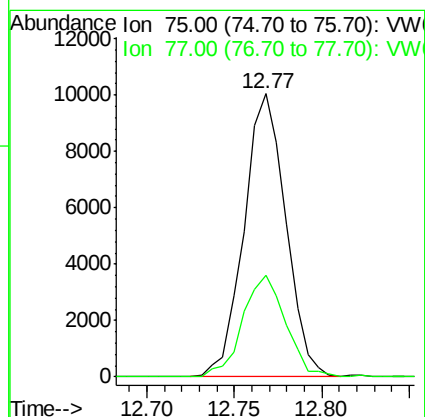
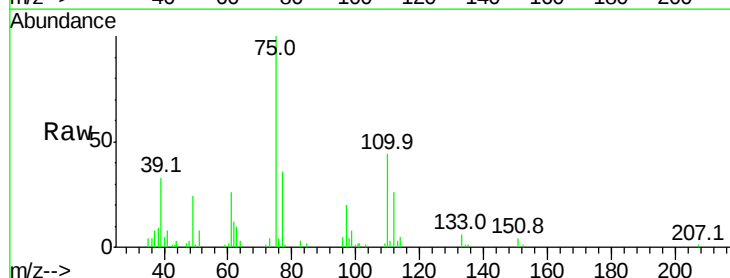
Acq: 12 Sep 2019 11:22

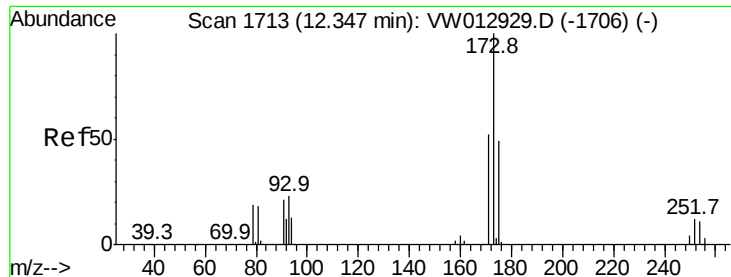
Tgt Ion: 75 Resp: 16652

Ion Ratio Lower Upper

75 100

77 36.6 25.4 38.2





#62

Bromoform

Concen: 4.090 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

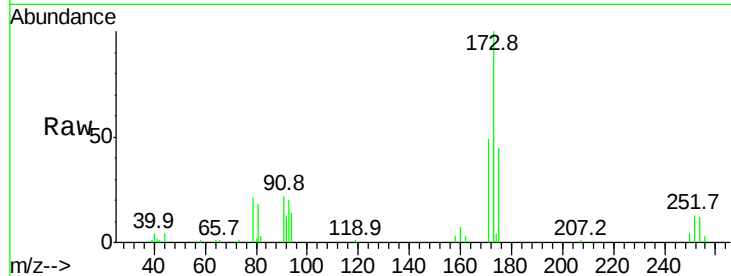
Tgt Ion:173 Resp: 13286

Ion Ratio Lower Upper

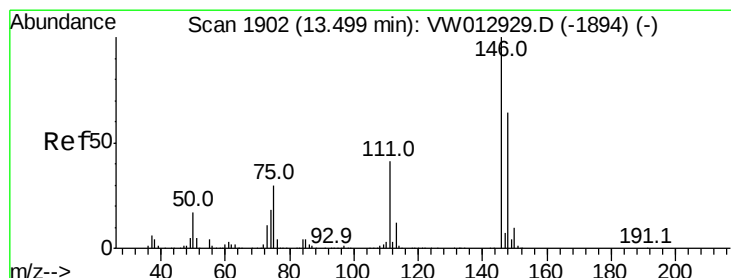
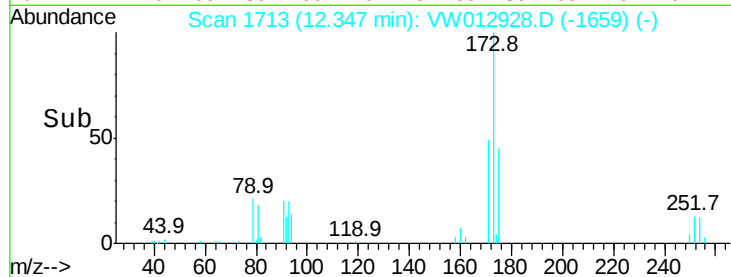
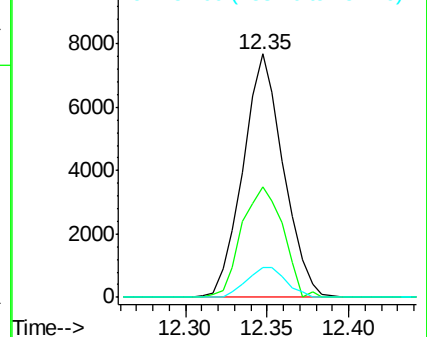
173 100

175 45.9 39.7 59.5

254 11.9 9.8 14.6



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: 4.701 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

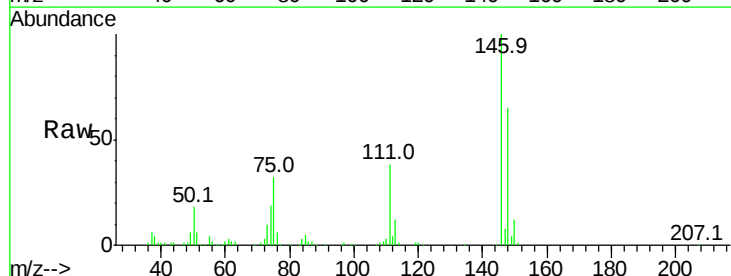
Tgt Ion:146 Resp: 57936

Ion Ratio Lower Upper

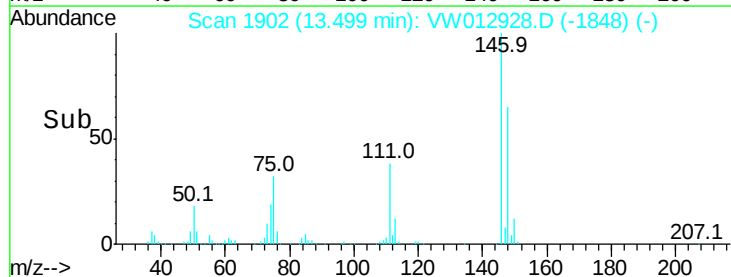
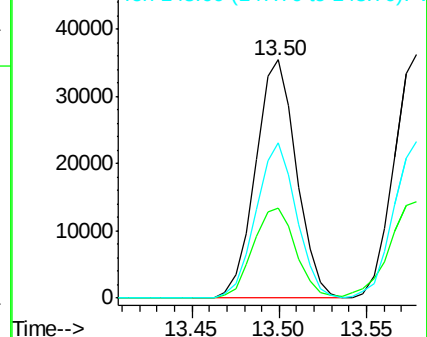
146 100

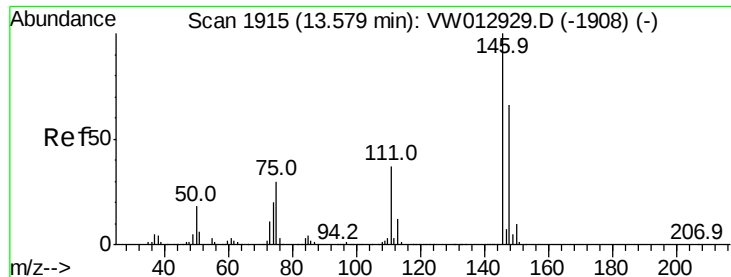
111 37.6 28.4 52.8

148 65.1 44.4 82.5



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

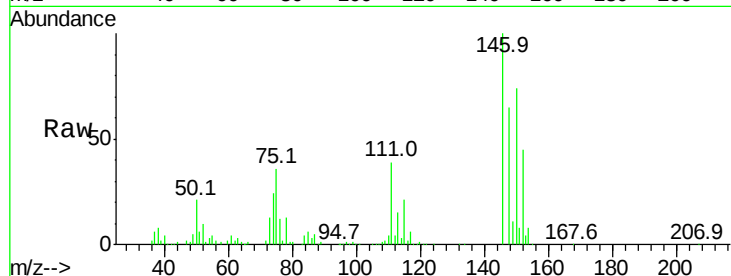




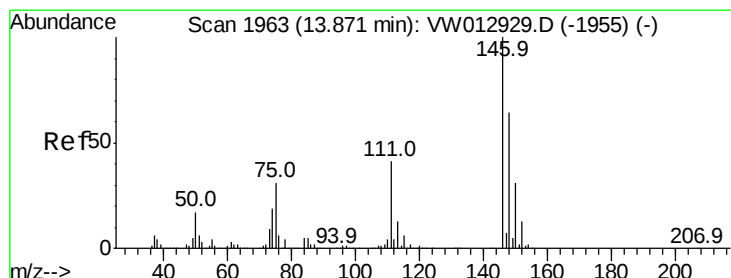
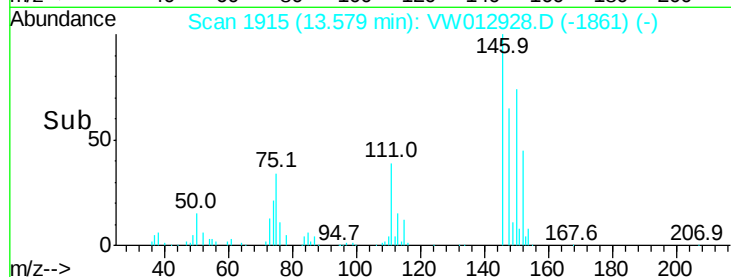
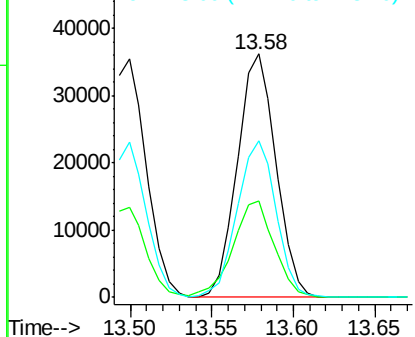
#64
1,4-Dichlorobenzene
Concen: 4.816 ug/L
RT: 13.58 min Scan# 1915
Delta R.T. -0.00 min
Lab File: VW012928.D
Acq: 12 Sep 2019 11:22

Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

Tgt Ion:146 Resp: 59599
Ion Ratio Lower Upper
146 100
111 39.5 26.1 48.5
148 64.6 45.8 85.0

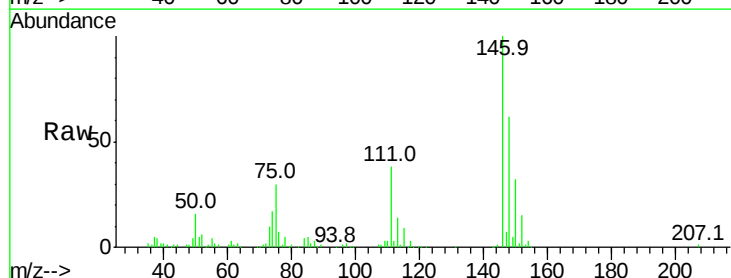


Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

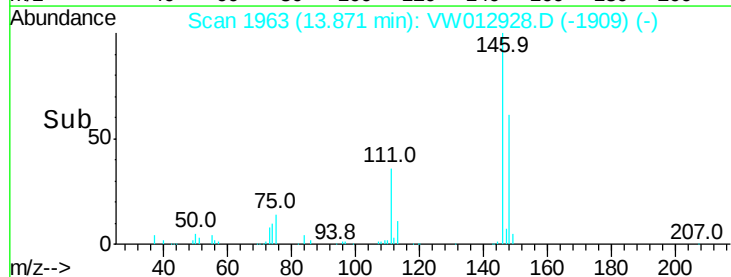
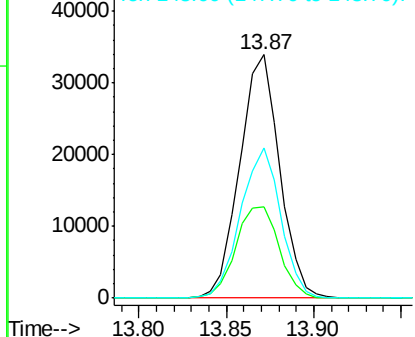


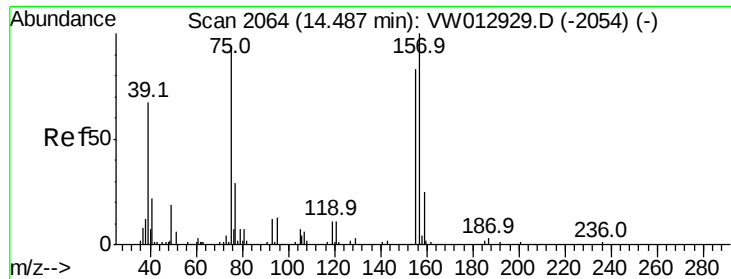
#65
1,2-Dichlorobenzene
Concen: 4.826 ug/L
RT: 13.87 min Scan# 1963
Delta R.T. -0.00 min
Lab File: VW012928.D
Acq: 12 Sep 2019 11:22

Tgt Ion:146 Resp: 53858
Ion Ratio Lower Upper
146 100
111 37.7 33.0 49.6
148 61.9 50.8 76.2



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

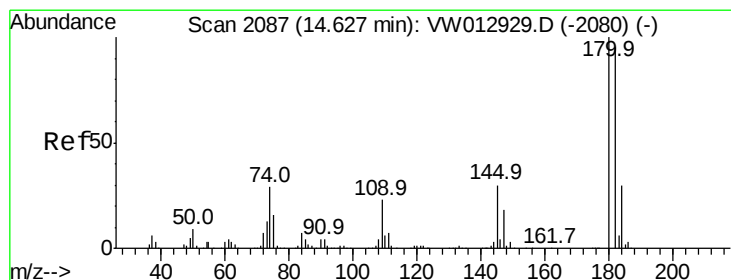
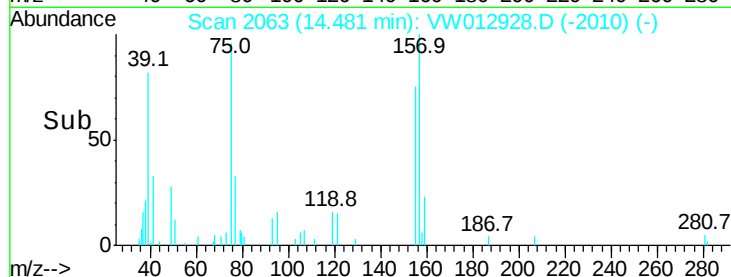
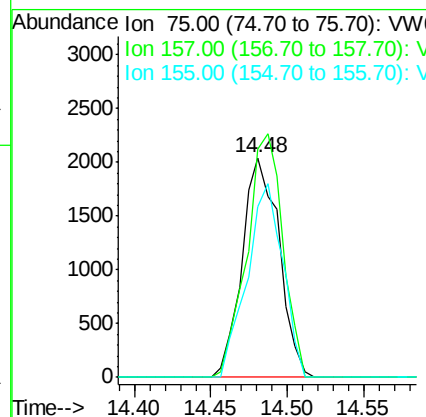
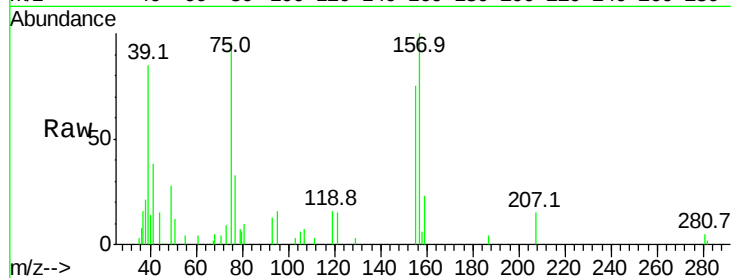




#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.961 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.01 min
 Lab File: VW012928.D
 Acq: 12 Sep 2019 11:22

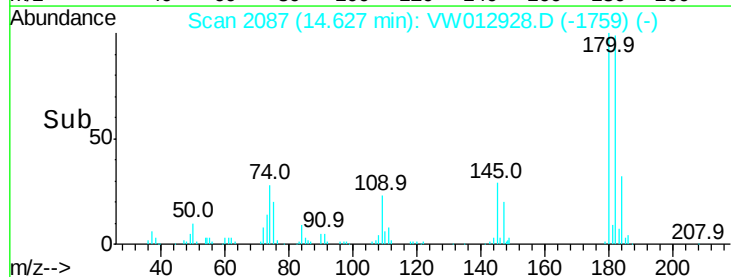
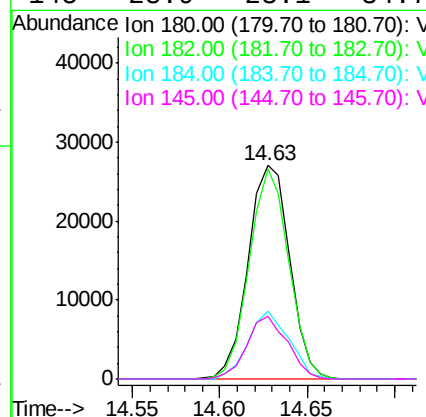
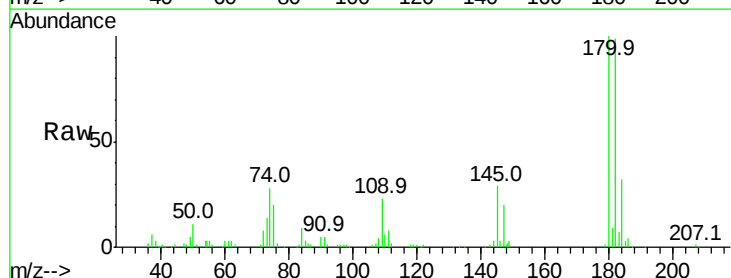
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

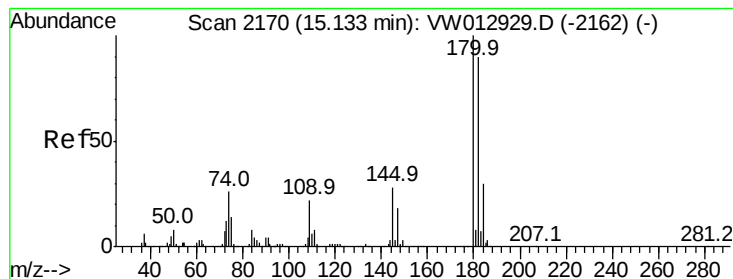
Tgt Ion: 75 Resp: 3420
 Ion Ratio Lower Upper
 75 100
 157 104.3 85.0 127.4
 155 78.0 70.2 105.4



#67
 1,3,5-Trichlorobenzene
 Concen: 4.928 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW012928.D
 Acq: 12 Sep 2019 11:22

Tgt Ion: 180 Resp: 44695
 Ion Ratio Lower Upper
 180 100
 182 94.0 75.8 113.8
 184 31.2 23.8 35.8
 145 28.9 23.1 34.7





#68

1,2,4-trichlorobenzene

Concen: 4.591 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

Instrument :

MSVOA_W

ClientSampled :

VSTD00502

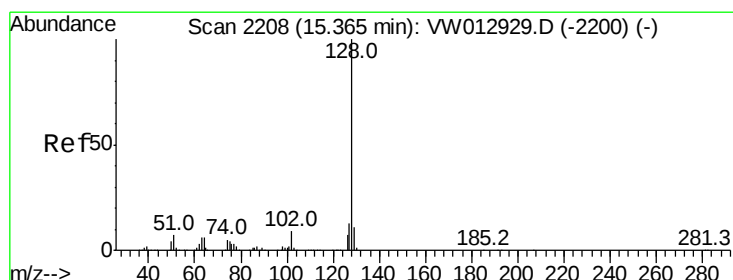
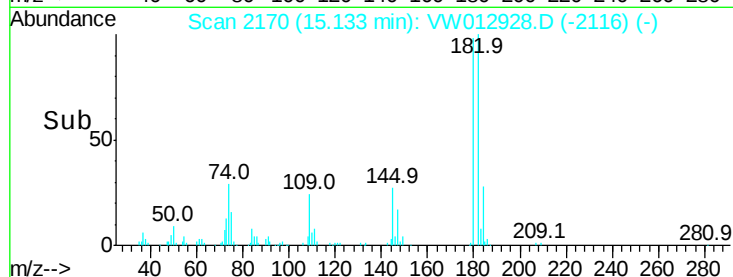
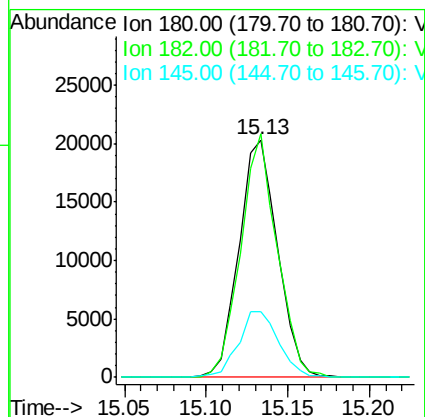
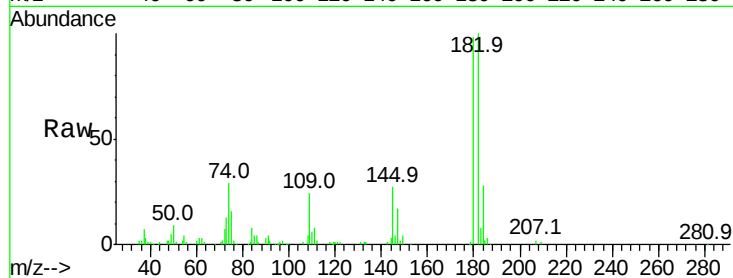
Tgt Ion:180 Resp: 33538

Ion Ratio Lower Upper

180 100

182 96.6 73.8 110.8

145 28.9 22.9 34.3



#69

Naphthalene

Concen: 3.580 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW012928.D

Acq: 12 Sep 2019 11:22

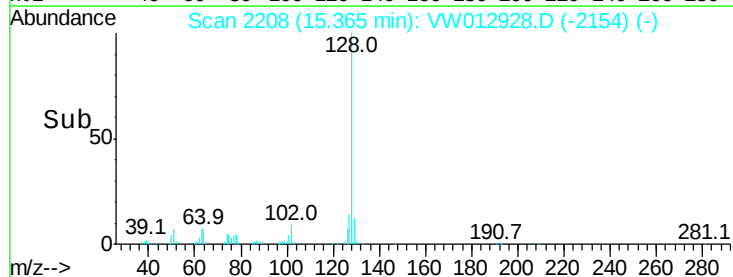
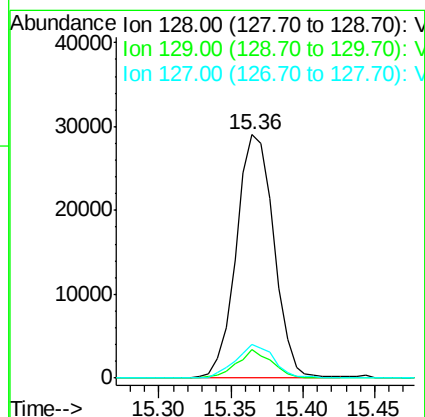
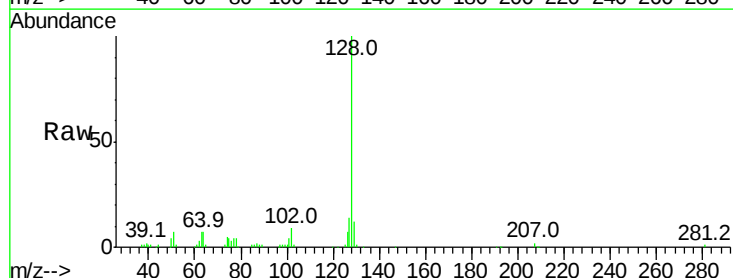
Tgt Ion:128 Resp: 52666

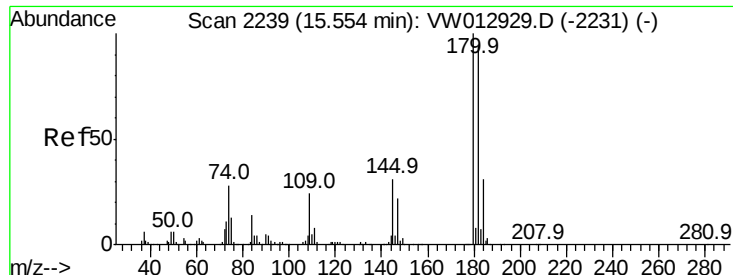
Ion Ratio Lower Upper

128 100

129 10.7 8.7 13.1

127 14.2 10.4 15.6





#70
 1,2,3-Trichlorobenzene
 Concen: 4.455 ug/L
 RT: 15.55 min Scan# 2239
 Delta R.T. -0.00 min
 Lab File: VW012928.D
 Acq: 12 Sep 2019 11:22

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.4	113.2
145	31.8	24.4	36.6

