

Data File : VW011101.D
Acq On : 02 Jul 2019 09:54
Operator : SY/VA
Sample : VSTD00514
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD00504

Quant Time: Jul 02 10:50:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070219S.M
Quant Title : VOC Analysis
QLast Update : Tue Jul 02 10:47:03 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	374771	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	333889	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	161906	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	27492	5.66	ug/L	0.00
7) Chloroethane-d5	2.89	69	18301	4.89	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.02	63	59085	5.15	ug/L	0.00
20) 2-Butanone-d5	7.08	46	21000	9.21	ug/L	0.00
24) Chloroform-d	7.65	84	50725	5.02	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	30748	4.91	ug/L	0.00
29) Benzene-d6	8.27	84	101678	5.07	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	33053	4.99	ug/L	0.00
37) Toluene-d8	10.32	98	89661	4.96	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	12678	4.33	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	12912	8.67	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	26076	4.78	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	31138	5.09	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	20942	3.975 ug/L	100
3) Chloromethane	2.21	50	24746	4.418 ug/L	100
5) Vinyl chloride	2.35	62	35212	5.258 ug/L	99
6) Bromomethane	2.78	94	16194	4.899 ug/L	98
8) Chloroethane	2.92	64	16464	4.642 ug/L	97
9) Trichlorofluoromethane	3.25	101	10444	4.618 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.05	101	10284	1.957 ug/L	# 1
12) 1,1-Dichloroethene	4.04	96	25429	4.847 ug/L	95
13) Acetone	4.12	43	25938	11.873 ug/L	100
14) Carbon disulfide	4.39	76	72083	4.641 ug/L	99
15) Methyl Acetate	4.67	43	16621	4.395 ug/L	98
16) Methylene chloride	4.92	84	29744	5.359 ug/L	88
17) Methyl tert-butyl Ether	5.43	73	38211	4.652 ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	26240	4.974 ug/L	96
19) 1,1-Dichloroethane	6.21	63	52004	4.827 ug/L	96
21) 2-Butanone	7.17	43	30796	10.719 ug/L	97
22) cis-1,2-Dichloroethene	7.17	96	27555	4.855 ug/L	96
23) Bromochloromethane	7.51	128	11757	4.870 ug/L	95
25) Chloroform	7.67	83	49967	5.055 ug/L	99
27) 1,2-Dichloroethane	8.40	62	37863	4.888 ug/L	99
30) Cyclohexane	7.95	56	52796	4.782 ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	36126	4.975 ug/L	99
32) Carbon tetrachloride	8.07	117	33388	4.868 ug/L	98
34) Benzene	8.32	78	110388	5.031 ug/L	100
35) Trichloroethene	9.09	95	27791	4.995 ug/L	99
36) Methylcyclohexane	9.34	83	49327	4.830 ug/L	98
40) 1,2-Dichloropropane	9.37	63	30047	4.975 ug/L	99
41) Bromodichloromethane	9.65	83	32871	4.638 ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	40998	4.413 ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	52988	9.455 ug/L	99

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Quant Title : VOC Analysis
QLast Update : Tue Jul 02 10:47:03 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.38	91	113090	4.929	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	33354	4.343	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	20206	4.882	ug/L	96
47) Tetrachloroethene	10.86	164	21866	5.182	ug/L	99
49) 2-Hexanone	10.97	43	38255	9.595	ug/L	100
50) Dibromochloromethane	11.13	129	20205	4.434	ug/L	96
51) 1,2-Dibromoethane	11.23	107	19153	4.785	ug/L	95
52) Chlorobenzene	11.66	112	69621	5.043	ug/L	97
53) Ethylbenzene	11.73	91	128375	4.967	ug/L	99
54) m,p-Xylene	11.83	106	45880	4.891	ug/L	94
55) o-xylene	12.16	106	43276	4.808	ug/L	94
56) Styrene	12.18	104	73822	4.756	ug/L	100
57) Isopropylbenzene	12.46	105	119634	4.899	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	26198	4.841	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	20287	4.828	ug/L	98
62) Bromoform	12.35	173	11172	4.311	ug/L #	97
63) 1,3-Dichlorobenzene	13.50	146	51524	4.888	ug/L	97
64) 1,4-Dichlorobenzene	13.58	146	53131	5.018	ug/L	95
65) 1,2-Dichlorobenzene	13.87	146	48783	5.004	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	4202	4.212	ug/L	88
67) 1,3,5-Trichlorobenzene	14.63	180	39719	4.951	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	32415	4.767	ug/L	98
69) Naphthalene	15.37	128	61257	4.222	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	29571	4.788	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 :
VSTD00504

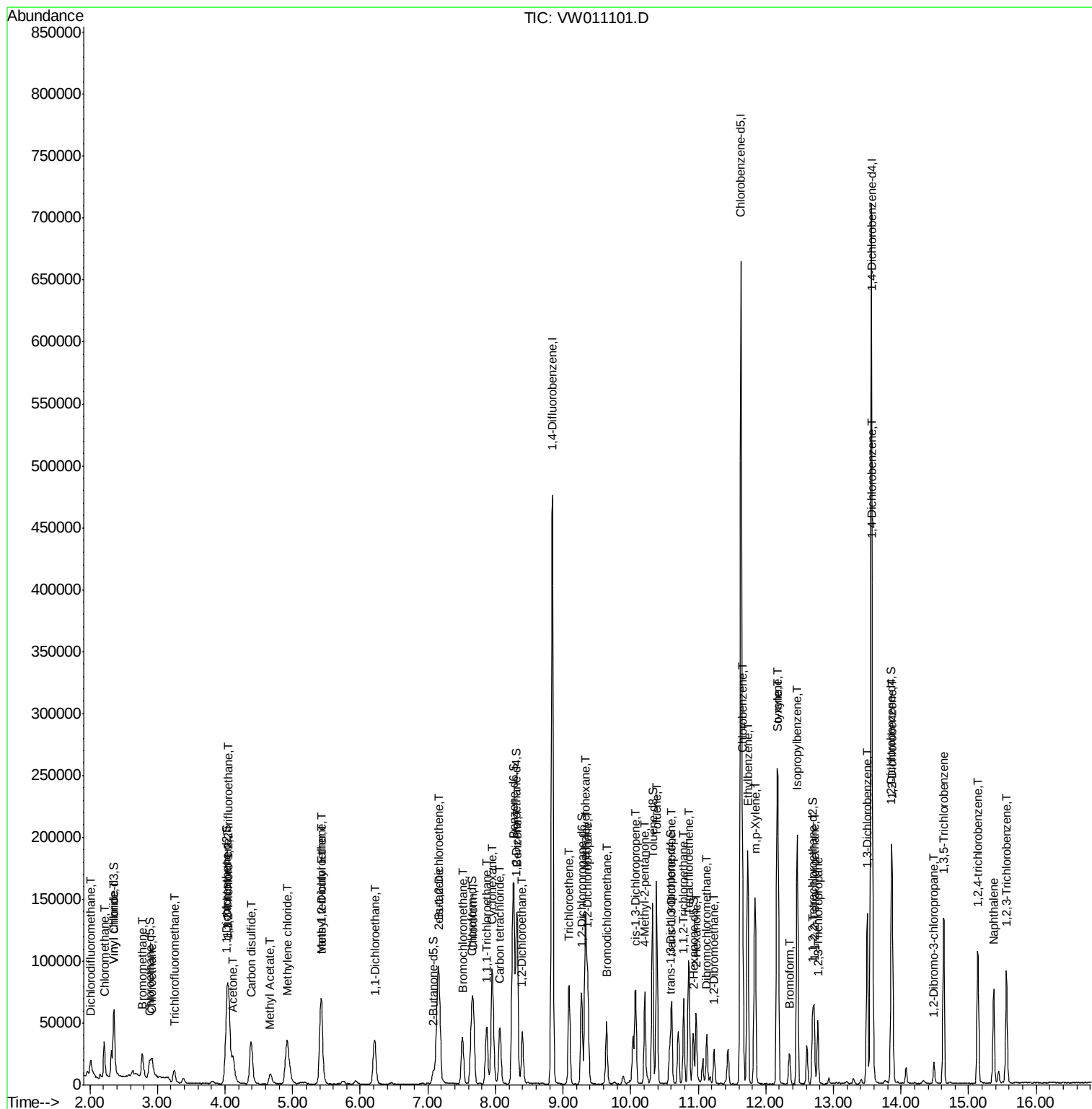
Quant Time: Jul 02 10:50:25 2019

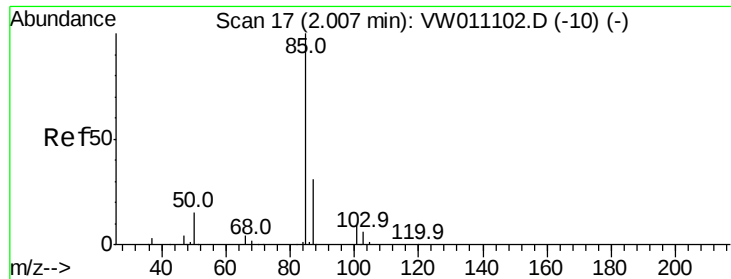
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070219S.M

Quant Title : VOC Analysis

QLast Update : Tue Jul 02 10:47:03 2019

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#2

Dichlorodifluoromethane

Concen: 3.975 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

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Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

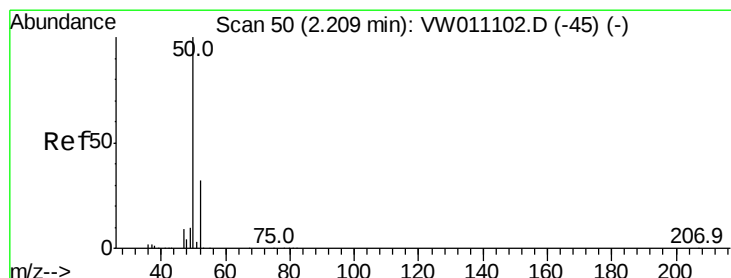
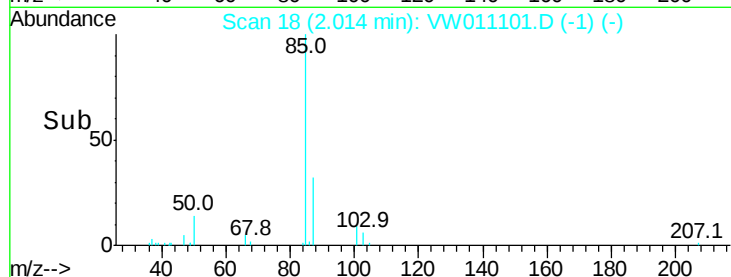
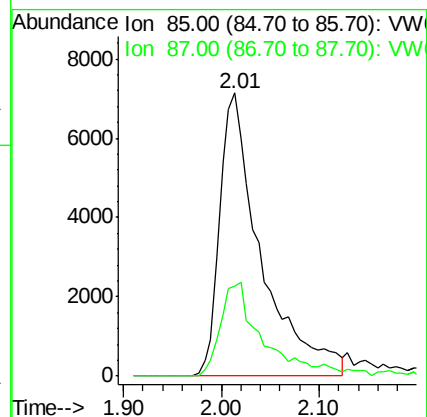
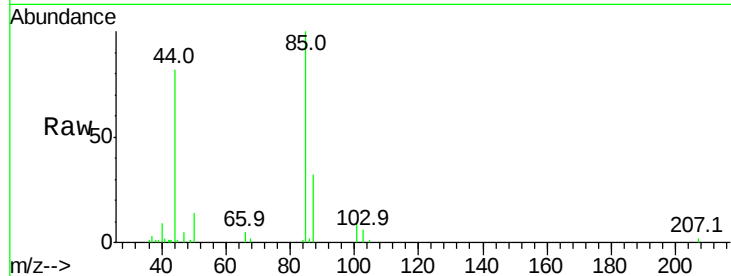
VSTD00504

Tgt Ion: 85 Resp: 20942

Ion Ratio Lower Upper

85 100

87 29.3 20.6 38.4



#3

Chloromethane

Concen: 4.418 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW011101.D

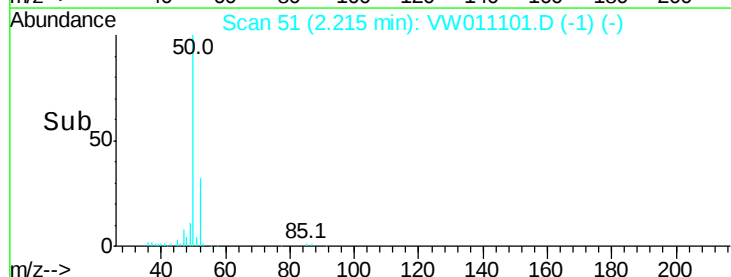
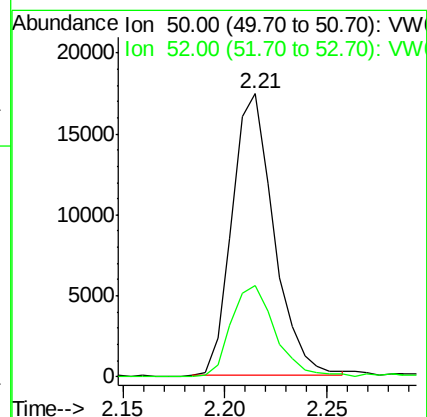
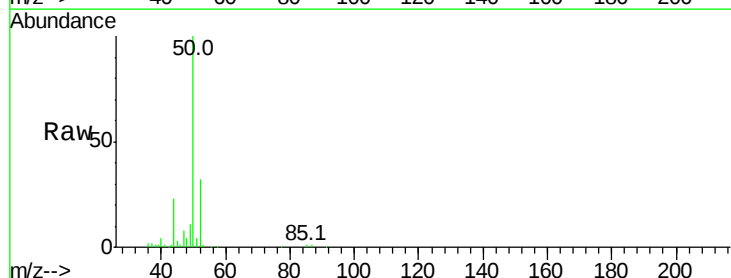
Acq: 02 Jul 2019 09:54

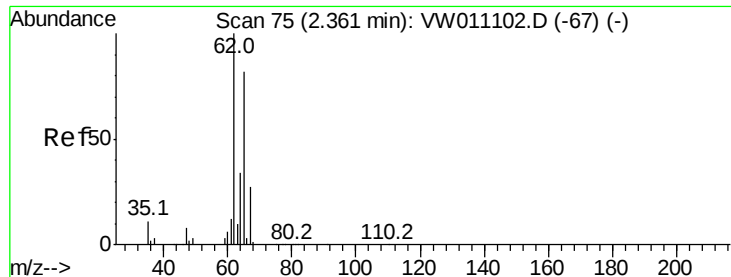
Tgt Ion: 50 Resp: 24746

Ion Ratio Lower Upper

50 100

52 32.1 22.3 41.5





#5

Vinyl chloride

Concen: 5.258 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampled :

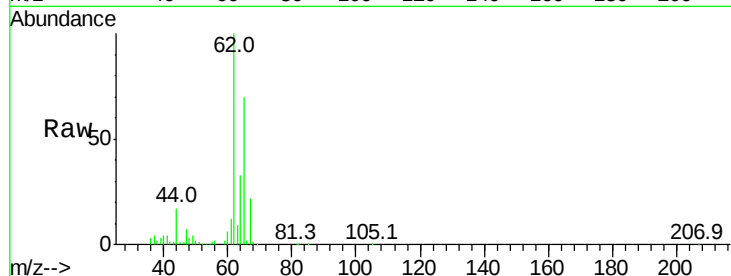
VSTD00504

Tgt Ion: 62 Resp: 35212

Ion Ratio Lower Upper

62 100

64 33.3 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW

20000

15000

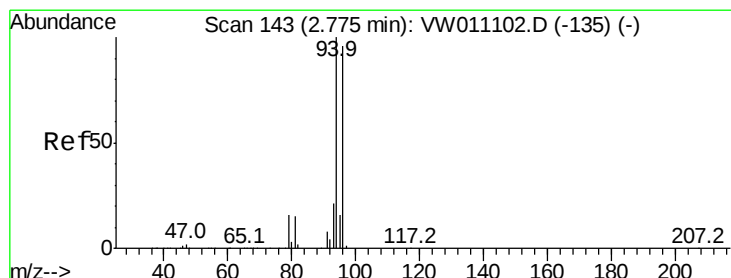
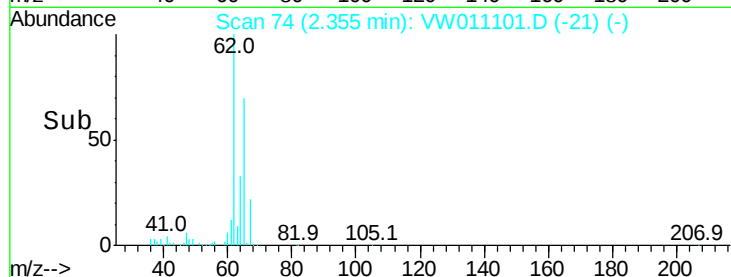
10000

5000

0

2.30 2.35 2.40 2.45

Time-->



#6

Bromomethane

Concen: 4.899 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW011101.D

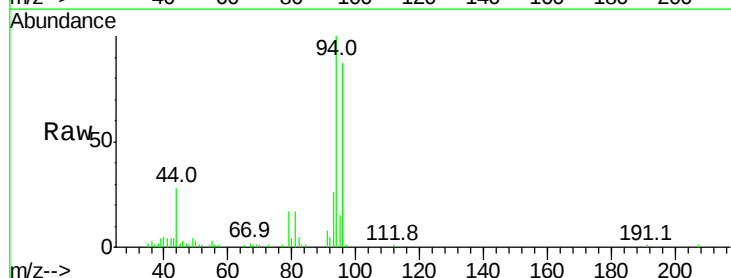
Acq: 02 Jul 2019 09:54

Tgt Ion: 94 Resp: 16194

Ion Ratio Lower Upper

94 100

96 91.4 9.3 177.3



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW

6000

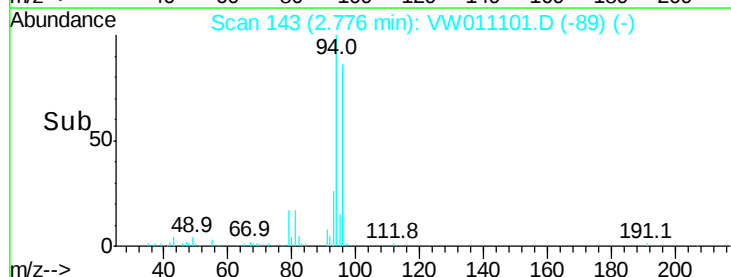
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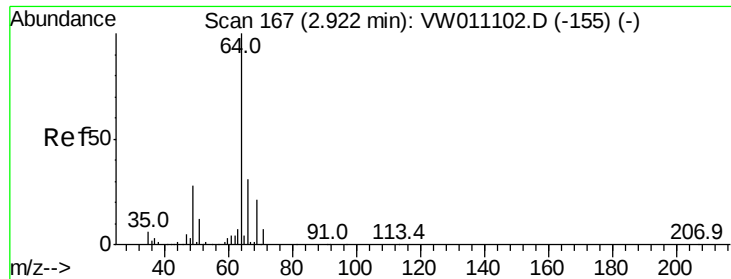
2000

0

2.70 2.78 2.80 2.90

Time-->





#8

Chloroethane

Concen: 4.642 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

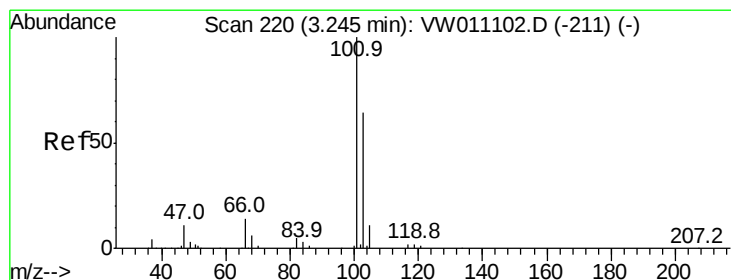
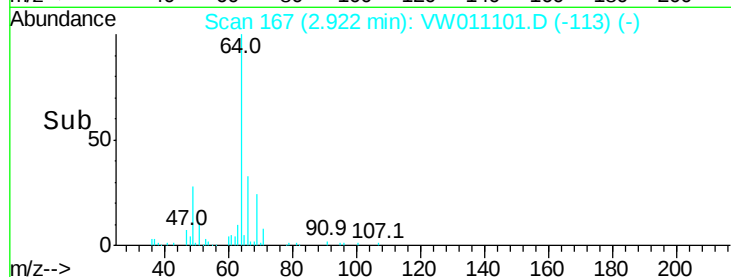
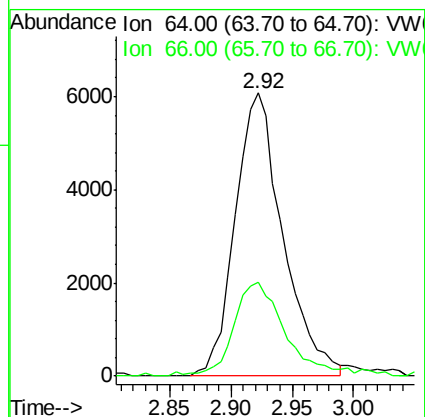
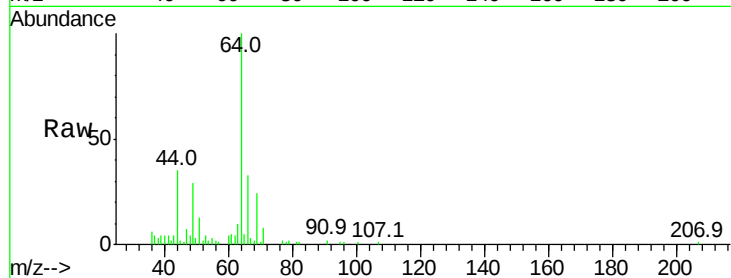
VSTD00504

Tgt Ion: 64 Resp: 16464

Ion Ratio Lower Upper

64 100

66 33.2 21.9 40.7



#9

Trichlorofluoromethane

Concen: 4.618 ug/L

RT: 3.25 min Scan# 221

Delta R.T. 0.01 min

Lab File: VW011101.D

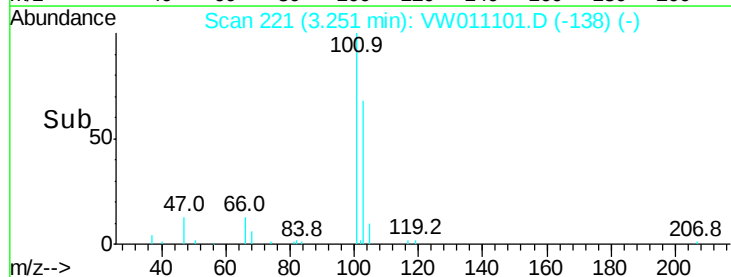
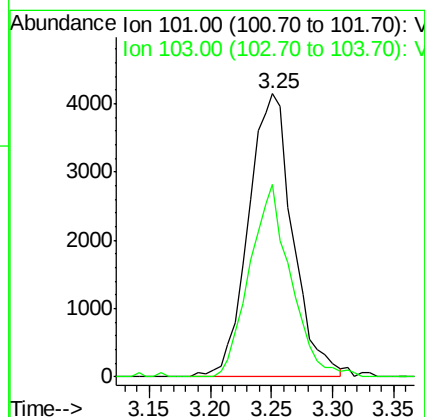
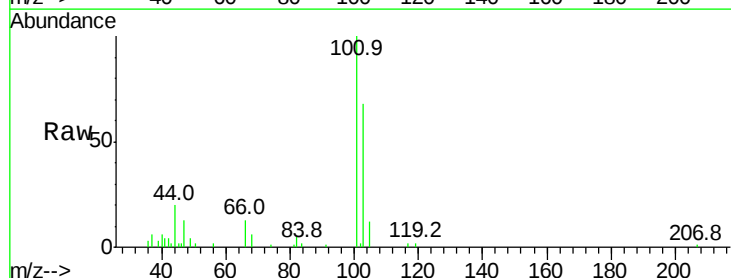
Acq: 02 Jul 2019 09:54

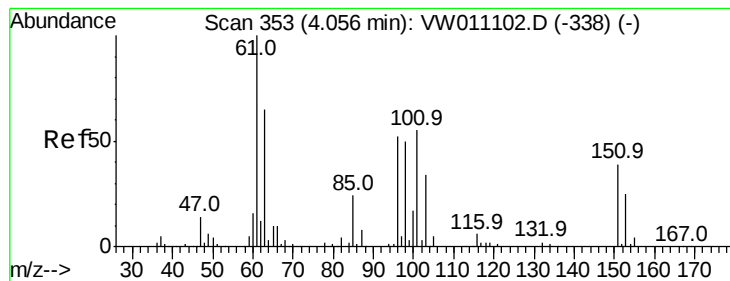
Tgt Ion: 101 Resp: 10444

Ion Ratio Lower Upper

101 100

103 63.5 44.6 82.8





#11

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

Concen: 1.957 ug/L

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD00504

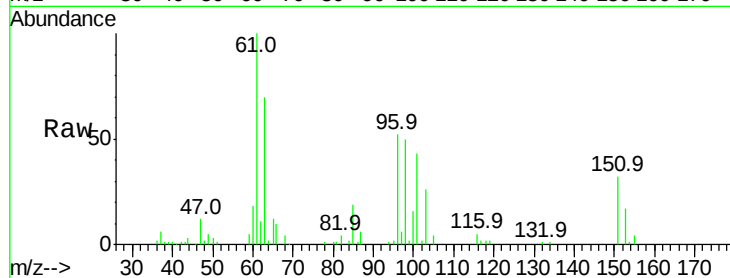
Tgt Ion: 101 Resp: 10284

Ion Ratio Lower Upper

101 100

85 110.4 33.8 50.8#

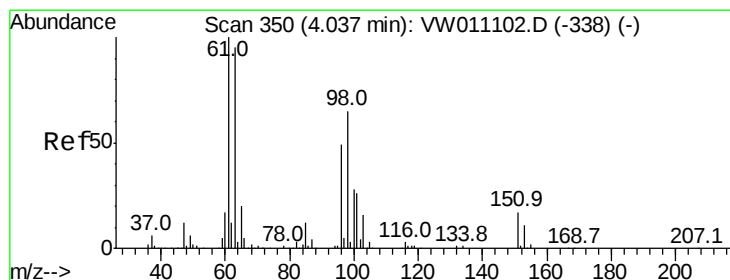
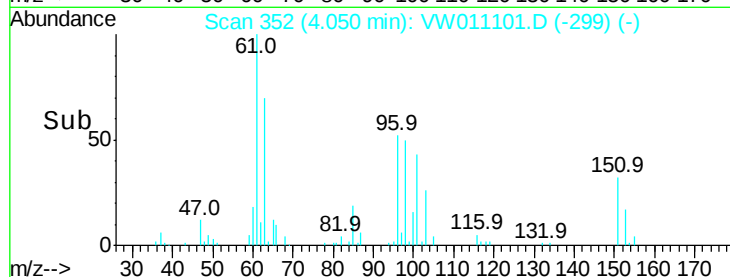
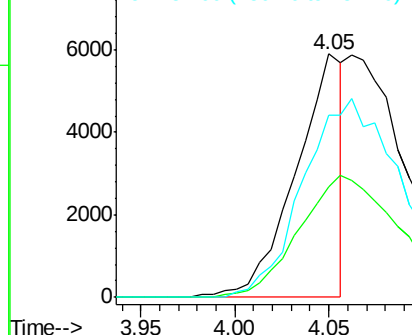
151 179.2 56.9 85.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.847 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

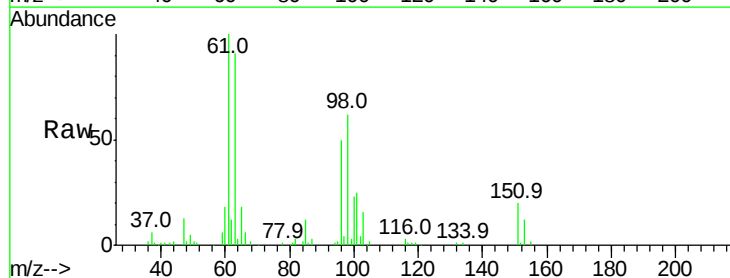
Tgt Ion: 96 Resp: 25429

Ion Ratio Lower Upper

96 100

61 201.7 142.2 264.0

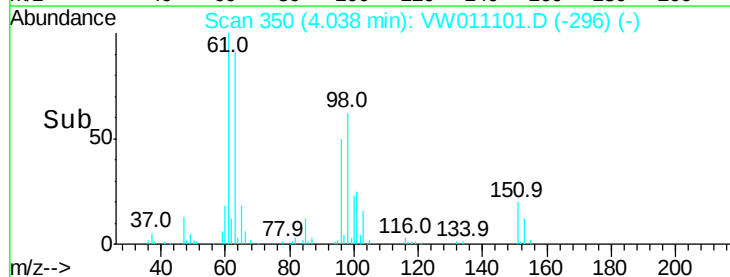
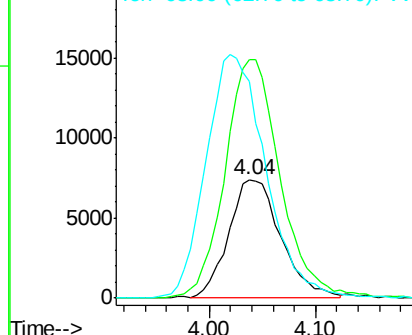
63 183.1 138.9 257.9

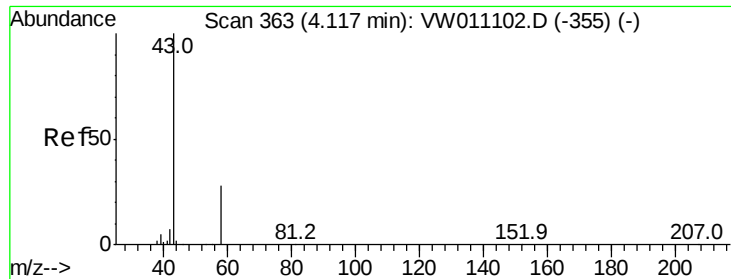


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 11.873 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

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ClientSampleId :

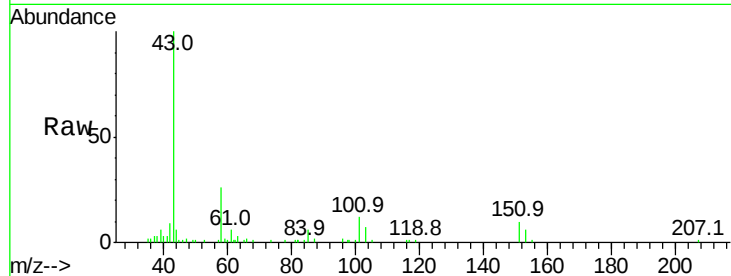
VSTD00504

Tgt Ion: 43 Resp: 25938

Ion Ratio Lower Upper

43 100

58 27.7 0.0 55.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

10000

8000

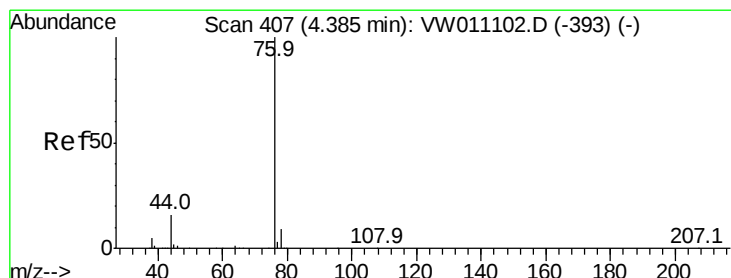
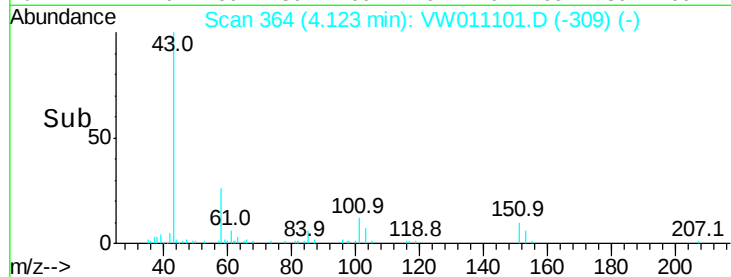
6000

4000

2000

0

Time-->



#14

Carbon disulfide

Concen: 4.641 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW011101.D

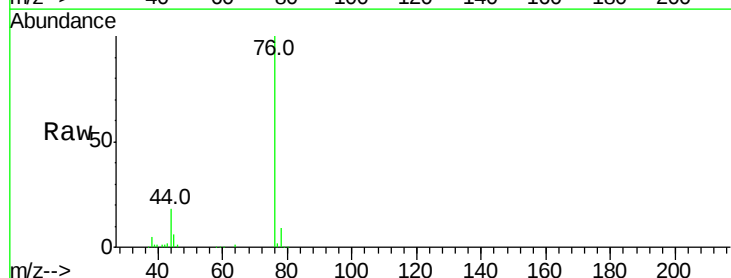
Acq: 02 Jul 2019 09:54

Tgt Ion: 76 Resp: 72083

Ion Ratio Lower Upper

76 100

78 8.8 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.39

25000

20000

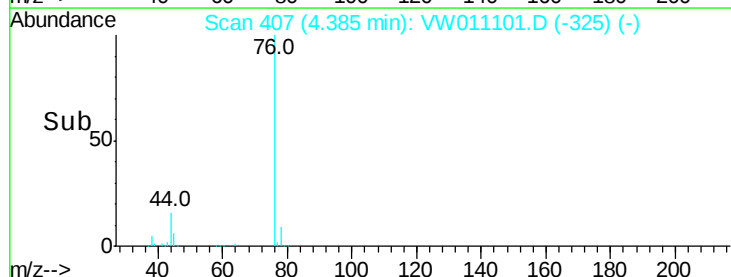
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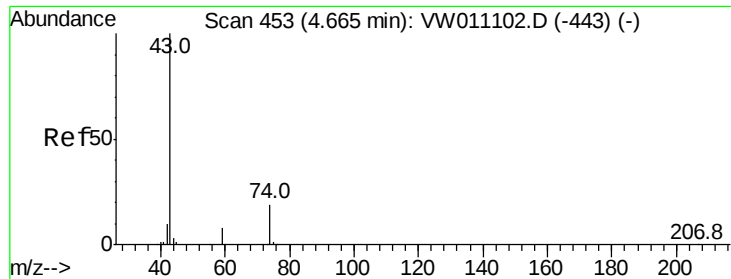
10000

5000

0

Time-->

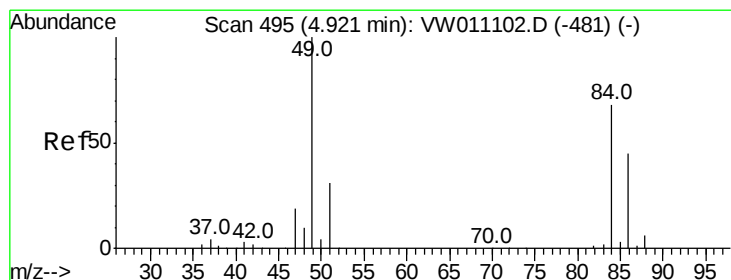
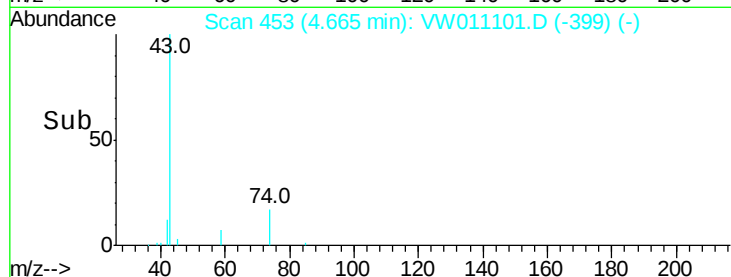
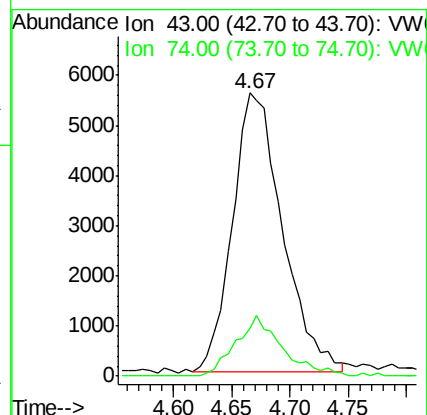
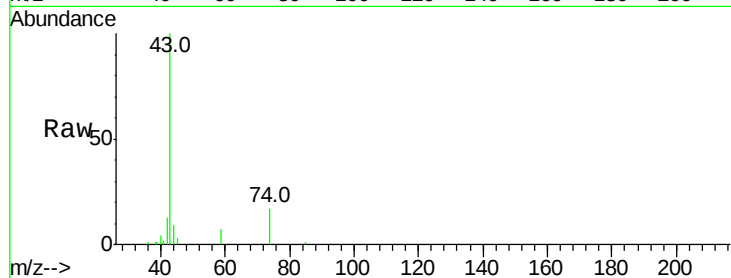




#15
Methyl Acetate
Concen: 4.395 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW011101.D
Acq: 02 Jul 2019 09:54

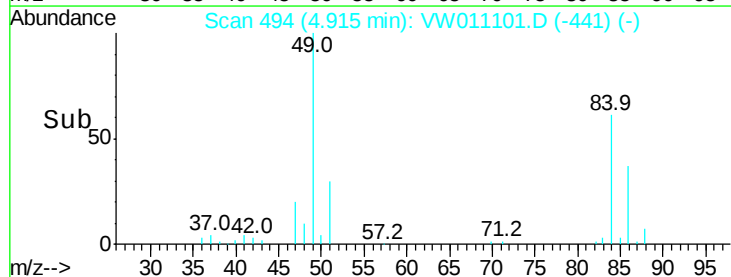
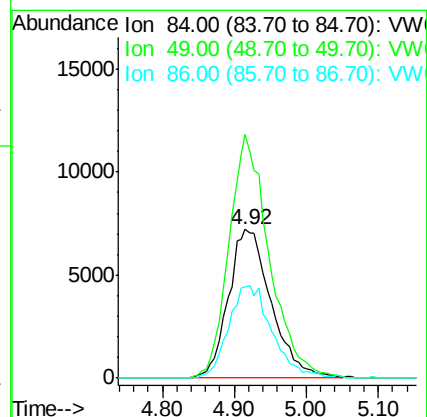
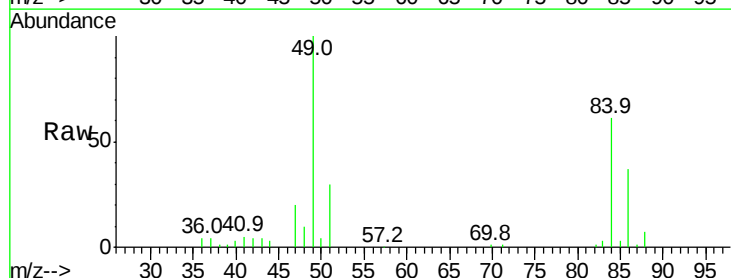
Instrument :
MSVOA_W
ClientSampleId :
VSTD00504

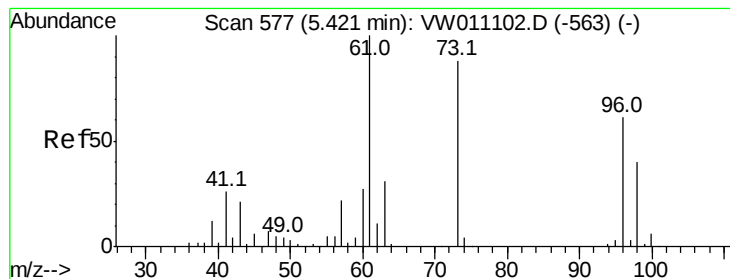
Tgt Ion: 43 Resp: 16621
Ion Ratio Lower Upper
43 100
74 18.2 15.1 22.7



#16
Methylene chloride
Concen: 5.359 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW011101.D
Acq: 02 Jul 2019 09:54

Tgt Ion: 84 Resp: 29744
Ion Ratio Lower Upper
84 100
49 164.1 102.5 190.3
86 61.1 46.4 86.2





#17

Methyl tert-butyl Ether

Concen: 4.652 ug/L

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampled :

VSTD00504

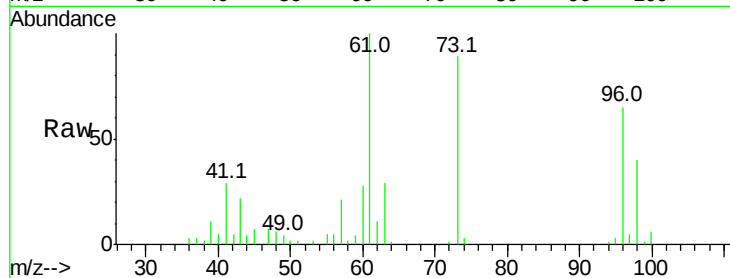
Tgt Ion: 73 Resp: 38211

Ion Ratio Lower Upper

73 100

43 24.8 20.2 30.2

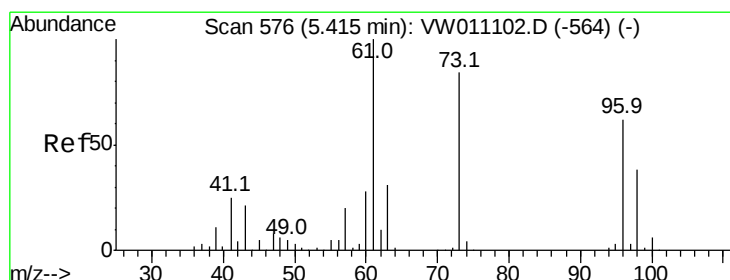
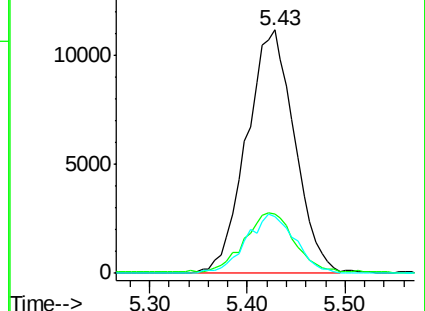
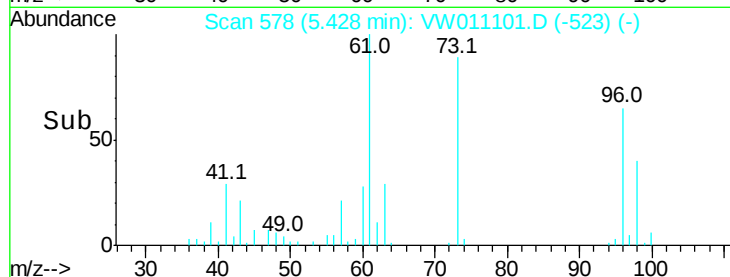
57 24.7 19.6 29.4



Abundance Ion 73.00 (72.70 to 73.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 57.00 (56.70 to 57.70): VW



#18

trans-1,2-Dichloroethene

Concen: 4.974 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

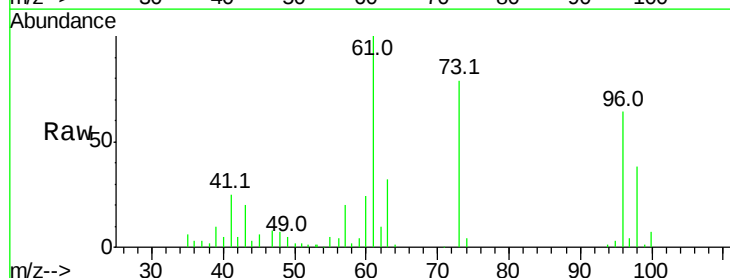
Tgt Ion: 96 Resp: 26240

Ion Ratio Lower Upper

96 100

61 156.1 113.7 211.1

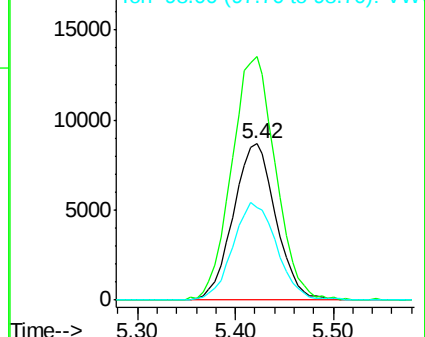
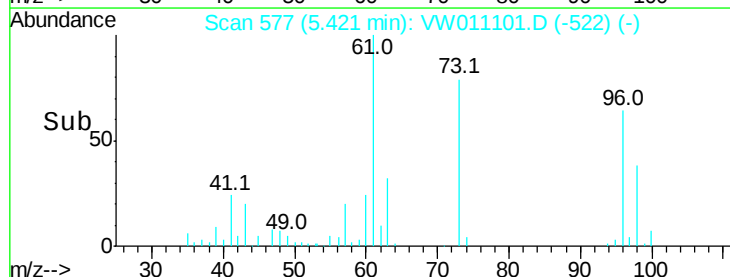
98 59.6 43.3 80.3

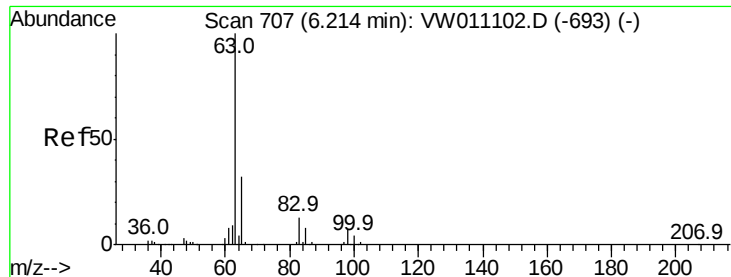


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW

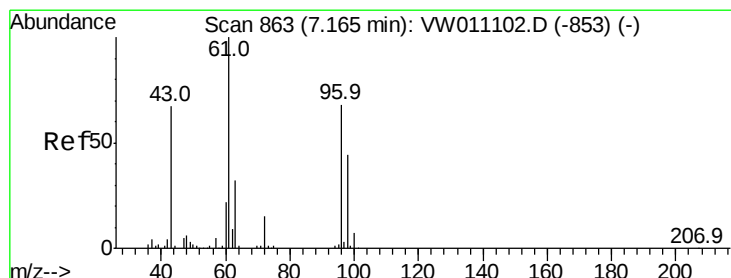
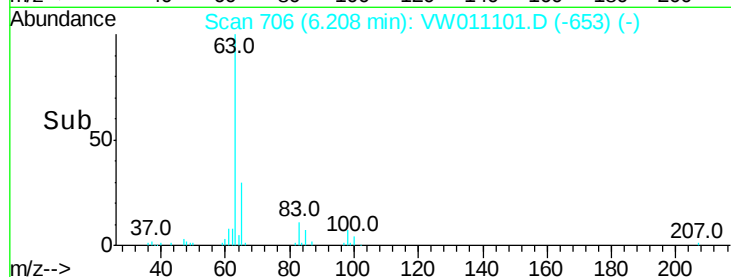
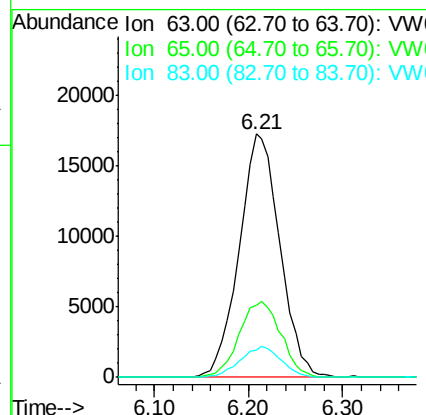
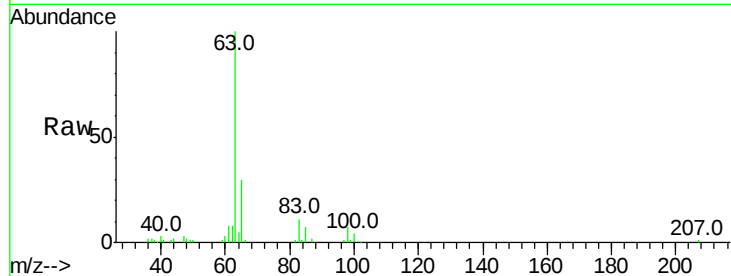




#19
 1,1-Dichloroethane
 Concen: 4.827 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.01 min
 Lab File: VW011101.D
 Acq: 02 Jul 2019 09:54

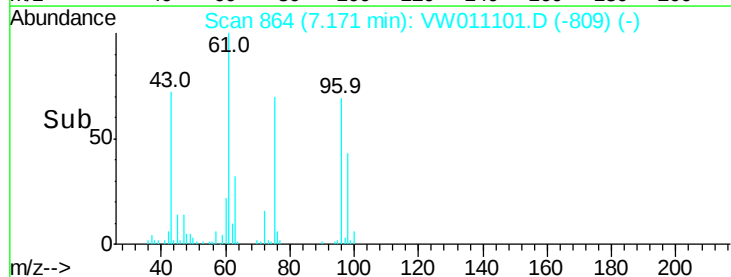
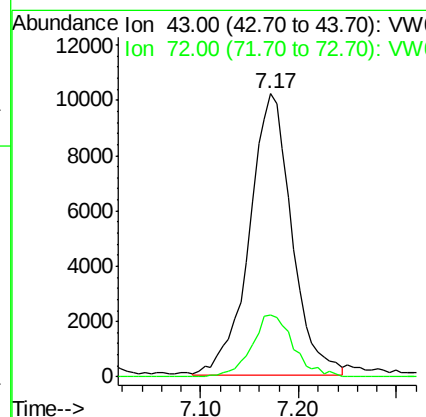
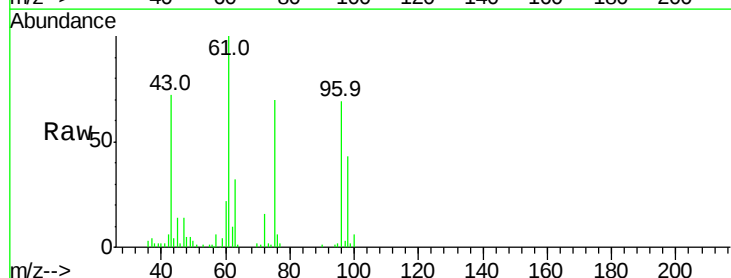
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00504

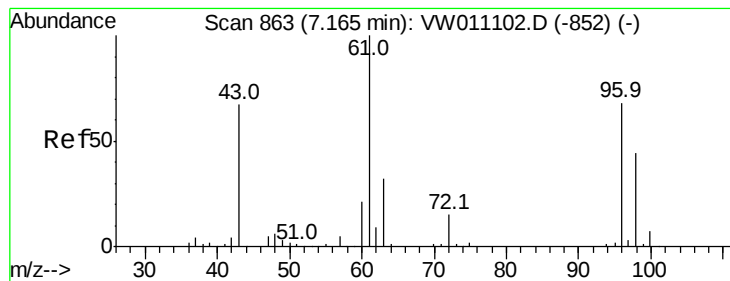
Tgt Ion: 63 Resp: 52004
 Ion Ratio Lower Upper
 63 100
 65 29.8 22.1 41.1
 83 11.1 9.0 16.6



#21
 2-Butanone
 Concen: 10.719 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW011101.D
 Acq: 02 Jul 2019 09:54

Tgt Ion: 43 Resp: 30796
 Ion Ratio Lower Upper
 43 100
 72 20.7 11.2 33.6





#22

cis-1,2-Dichloroethene

Concen: 4.855 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD00504

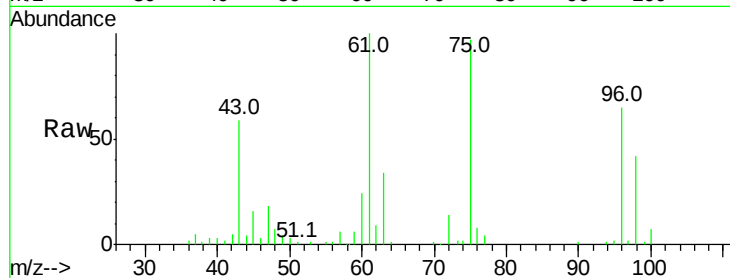
Tgt Ion: 96 Resp: 27555

Ion Ratio Lower Upper

96 100

61 154.2 103.2 191.6

98 65.1 44.8 83.2

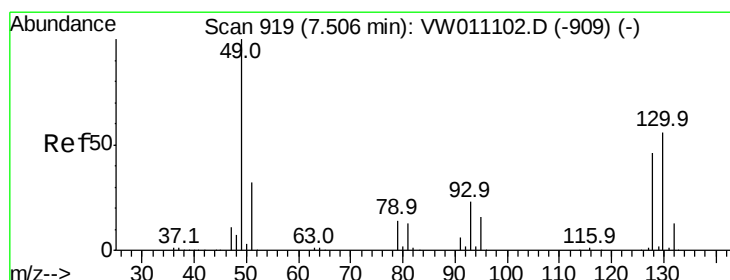
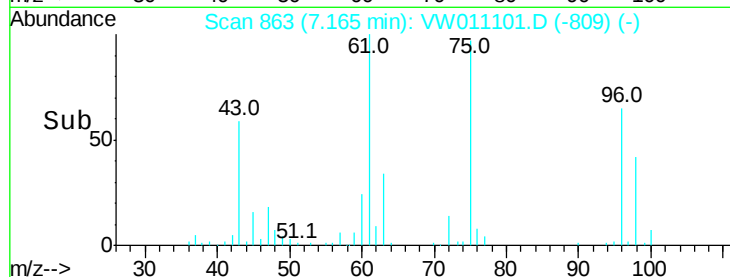
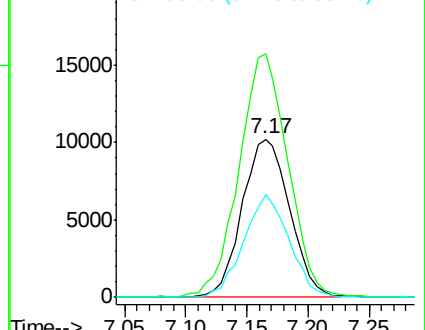


Abundance

Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW



#23

Bromochloromethane

Concen: 4.870 ug/L

RT: 7.51 min Scan# 920

Delta R.T. 0.01 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Tgt Ion: 128 Resp: 11757

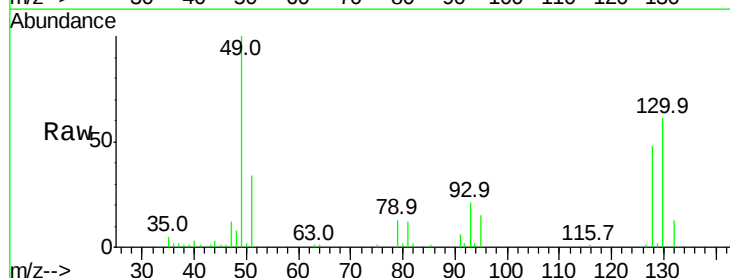
Ion Ratio Lower Upper

128 100

49 206.9 153.8 285.6

130 125.5 86.4 160.4

51 71.3 56.2 84.4



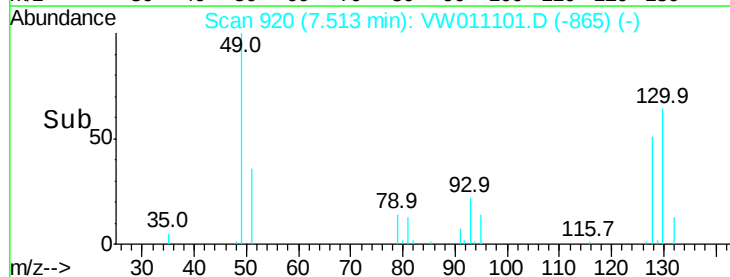
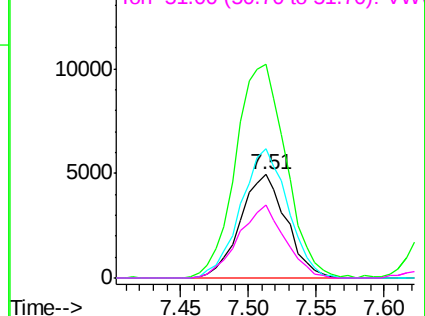
Abundance

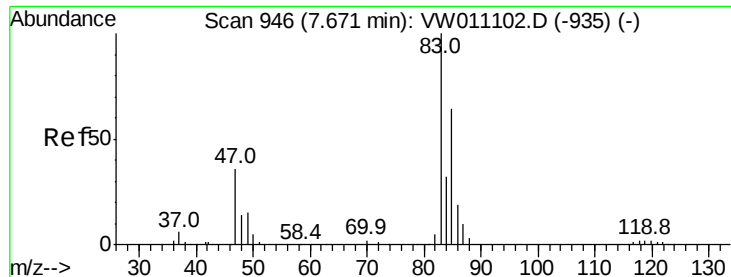
Ion 128.00 (127.70 to 128.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): VW

Ion 51.00 (50.70 to 51.70): VW

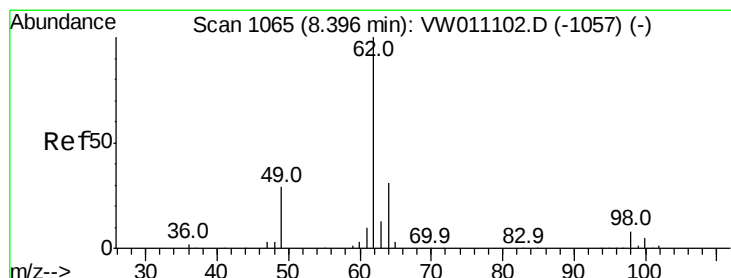
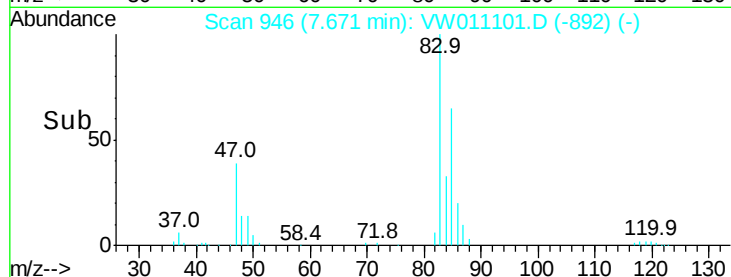
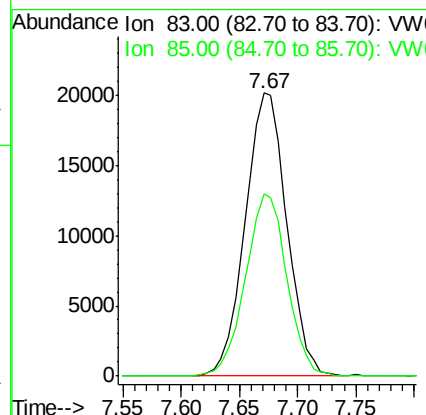
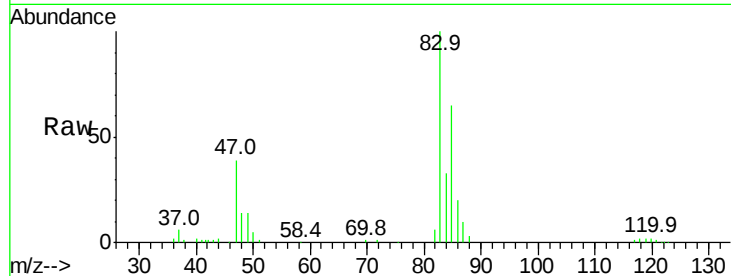




#25
Chloroform
Concen: 5.055 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW011101.D
Acq: 02 Jul 2019 09:54

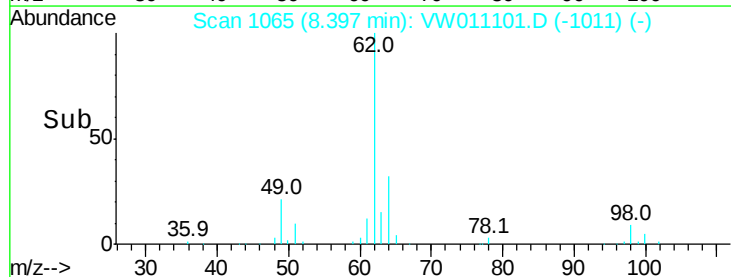
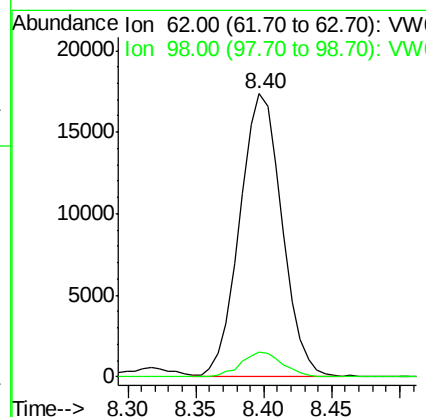
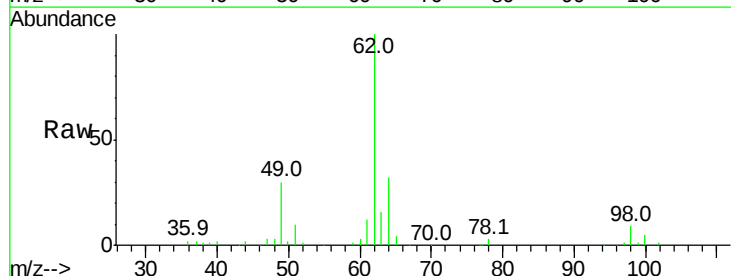
Instrument :
MSVOA_W
ClientSampleId :
VSTD00504

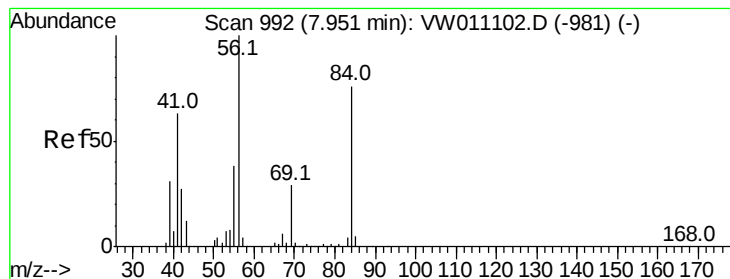
Tgt Ion: 83 Resp: 49967
Ion Ratio Lower Upper
83 100
85 64.2 45.6 84.6



#27
1,2-Dichloroethane
Concen: 4.888 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW011101.D
Acq: 02 Jul 2019 09:54

Tgt Ion: 62 Resp: 37863
Ion Ratio Lower Upper
62 100
98 8.7 6.6 10.0





#30

Cyclohexane

Concen: 4.782 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampled :

VSTD00504

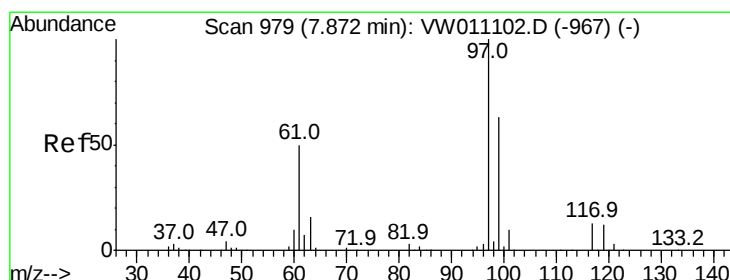
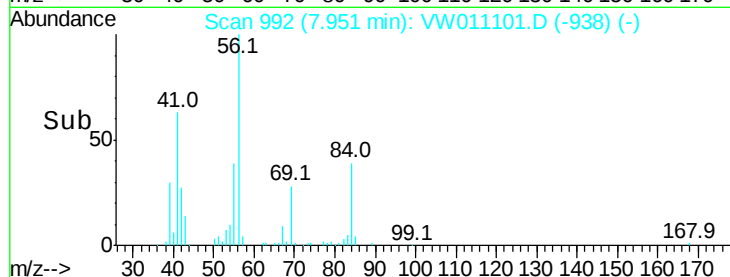
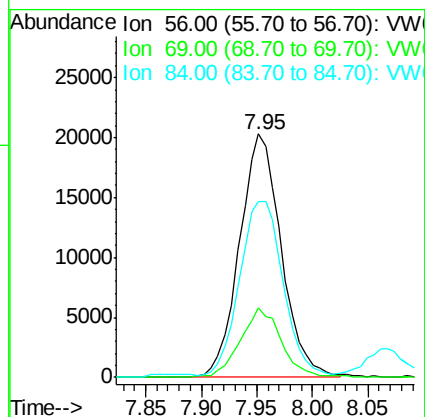
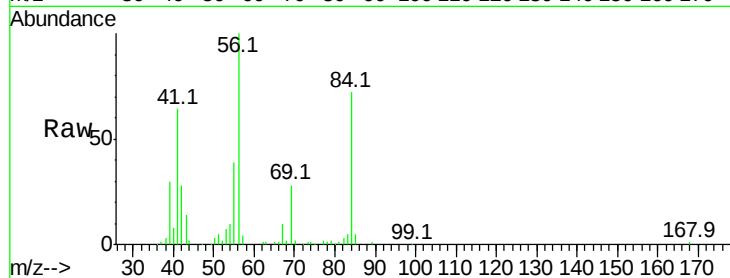
Tgt Ion: 56 Resp: 52796

Ion Ratio Lower Upper

56 100

69 27.5 22.5 33.7

84 76.4 60.9 91.3



#31

1,1,1-Trichloroethane

Concen: 4.975 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

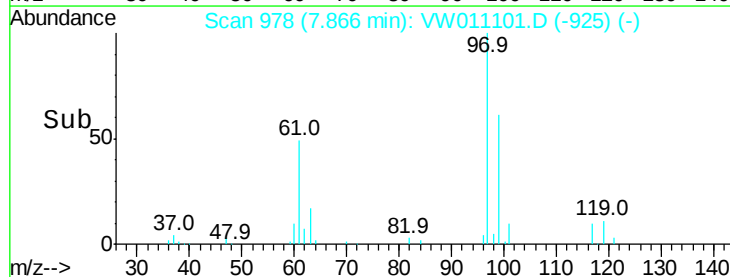
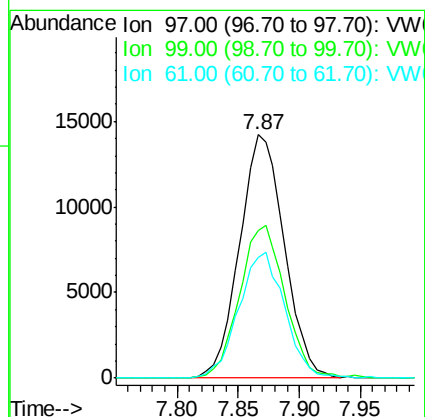
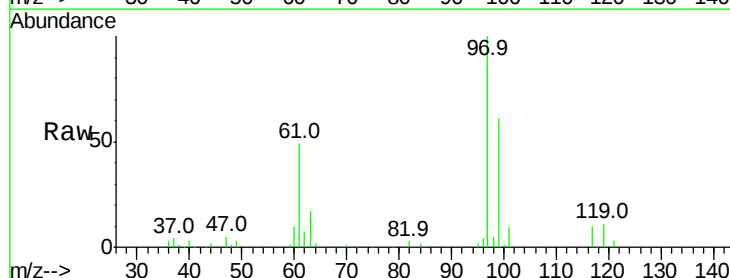
Tgt Ion: 97 Resp: 36126

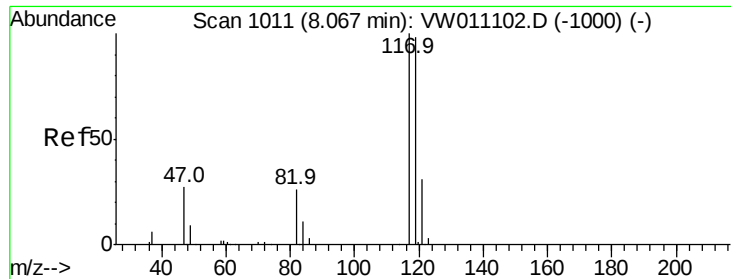
Ion Ratio Lower Upper

97 100

99 63.6 50.6 75.8

61 52.9 40.9 61.3





#32

Carbon tetrachloride

Concen: 4.868 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

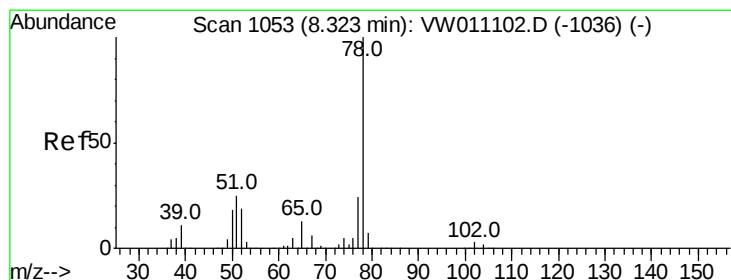
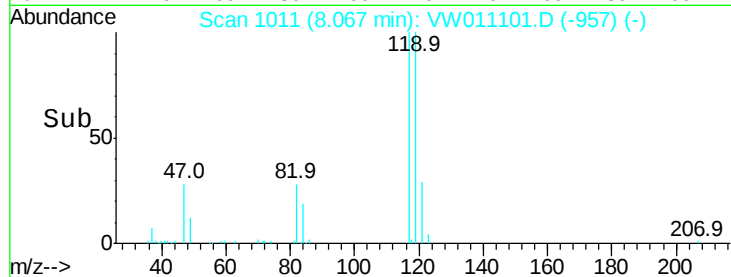
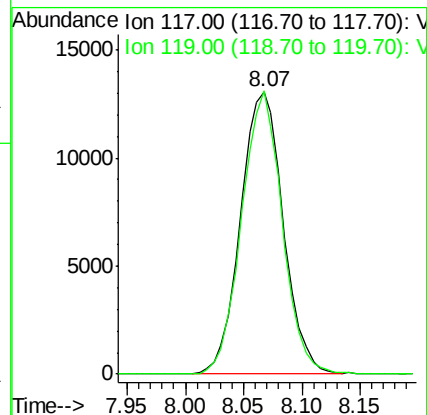
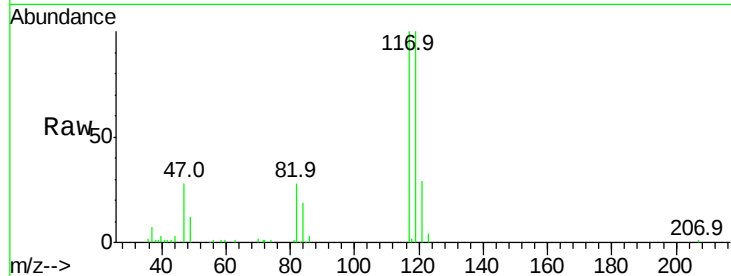
VSTD00504

Tgt Ion:117 Resp: 33388

Ion Ratio Lower Upper

117 100

119 95.1 77.4 116.0



#34

Benzene

Concen: 5.031 ug/L

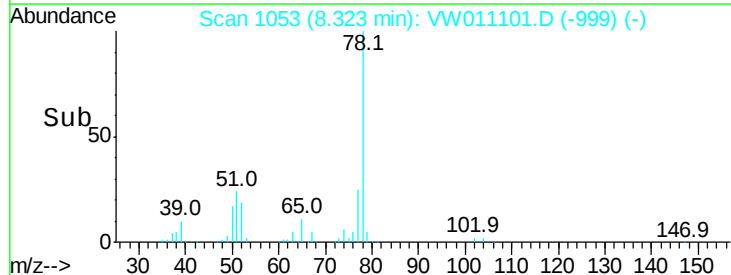
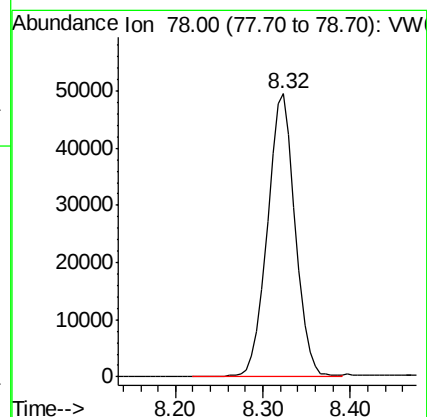
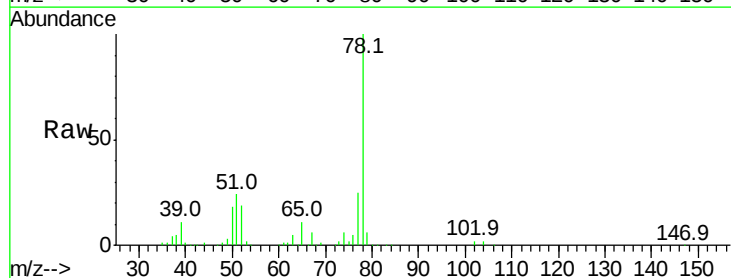
RT: 8.32 min Scan# 1053

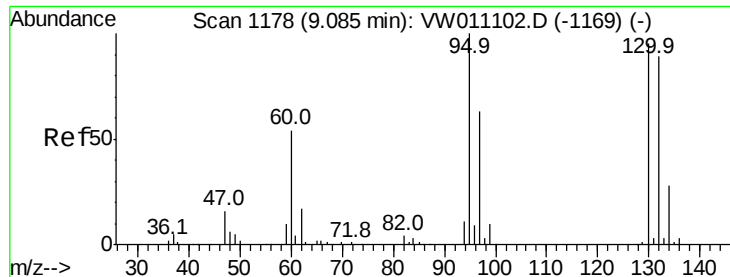
Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Tgt Ion: 78 Resp: 110388





#35

Trichloroethene

Concen: 4.995 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD00504

Tgt Ion: 95 Resp: 27791

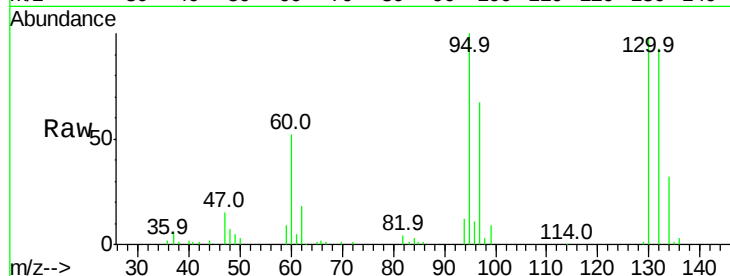
Ion Ratio Lower Upper

95 100

97 65.2 45.4 84.2

132 92.7 65.0 120.8

130 95.6 67.8 126.0



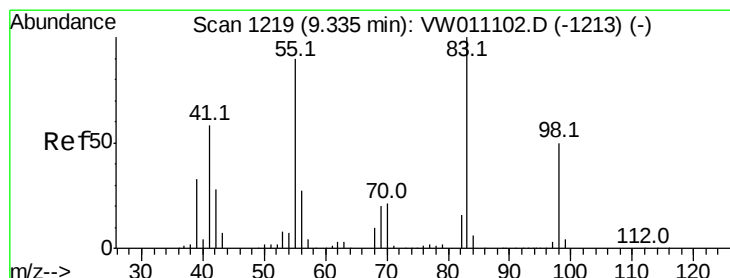
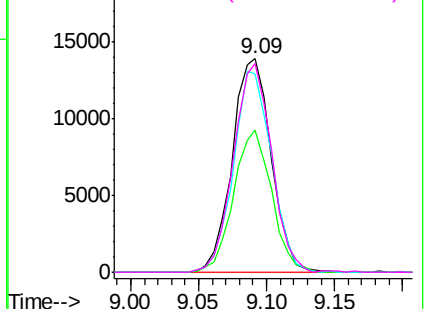
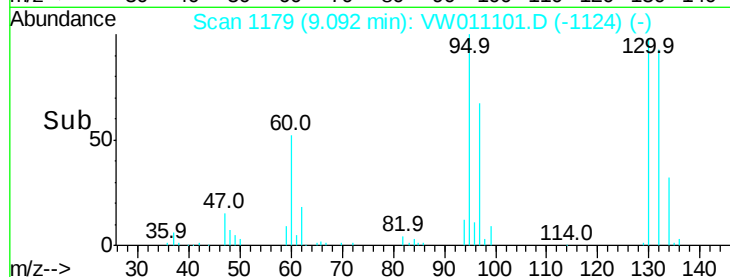
Abundance

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: 4.830 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

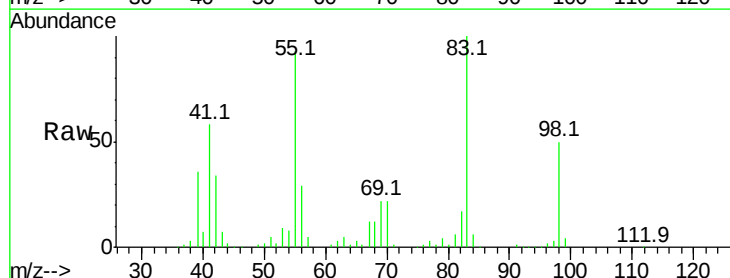
Tgt Ion: 83 Resp: 49327

Ion Ratio Lower Upper

83 100

55 92.6 72.2 108.4

98 49.3 38.2 57.4

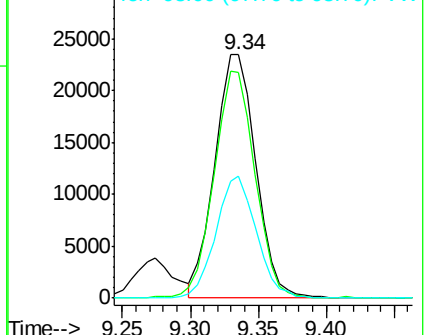
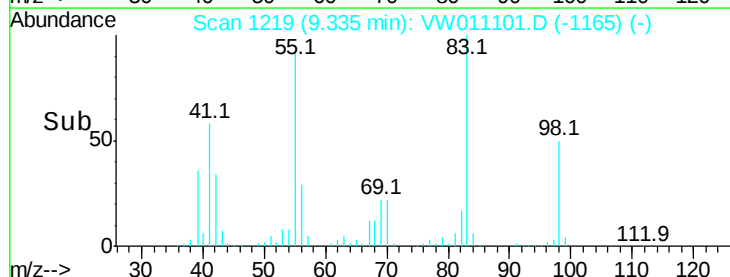


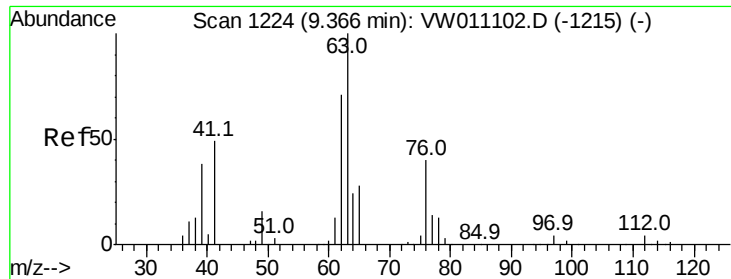
Abundance

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

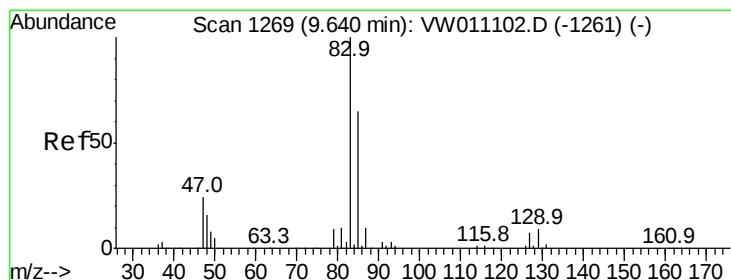
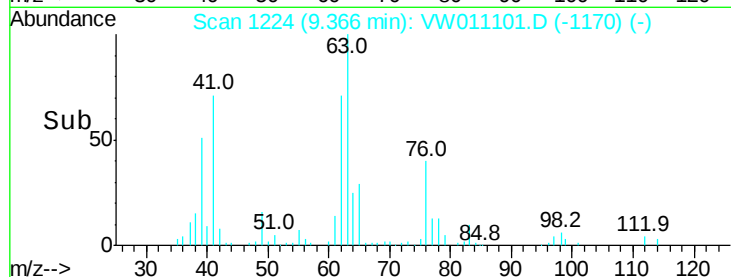
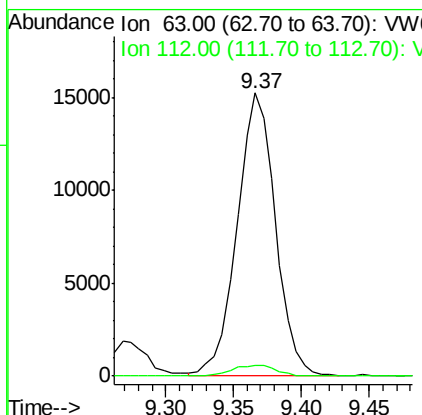
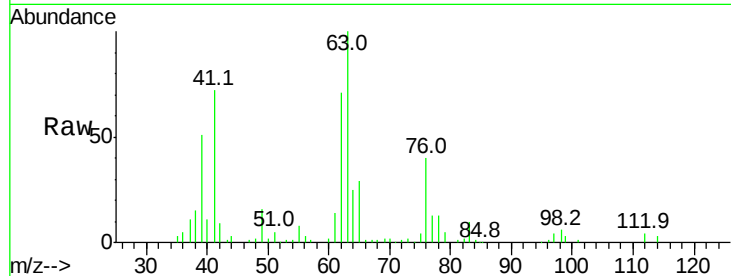




#40
 1,2-Dichloropropane
 Concen: 4.975 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW011101.D
 Acq: 02 Jul 2019 09:54

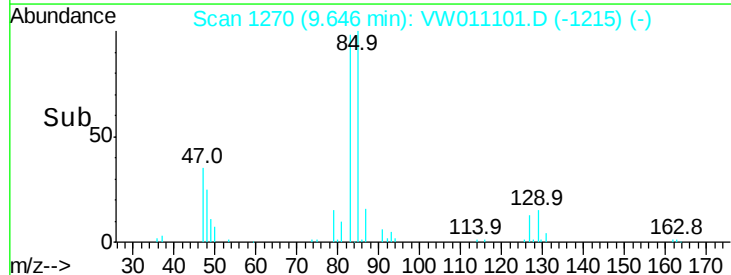
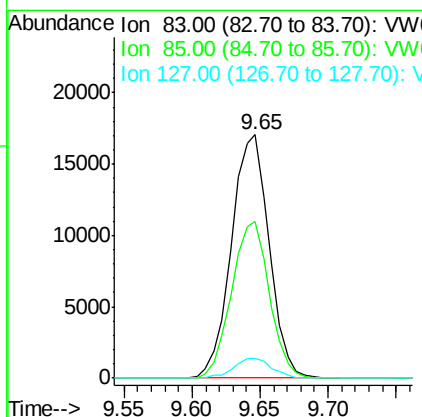
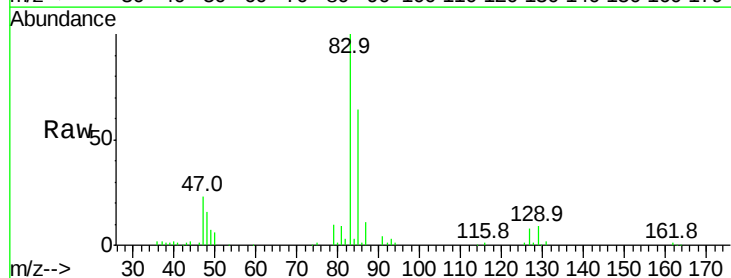
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00504

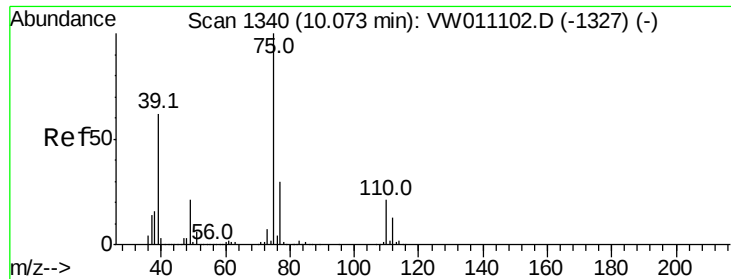
Tgt Ion: 63 Resp: 30047
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.0 4.6



#41
 Bromodichloromethane
 Concen: 4.638 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.01 min
 Lab File: VW011101.D
 Acq: 02 Jul 2019 09:54

Tgt Ion: 83 Resp: 32871
 Ion Ratio Lower Upper
 83 100
 85 64.4 45.5 84.5
 127 8.1 5.8 8.8





#42

cis-1,3-Dichloroprene

Concen: 4.413 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

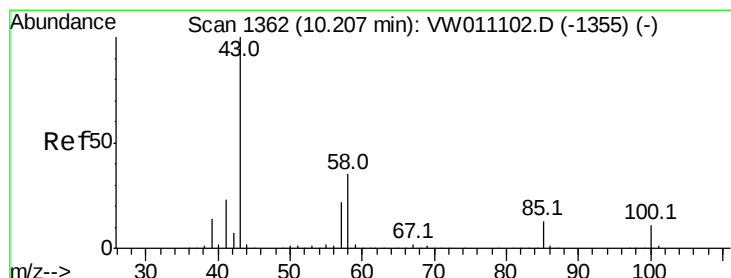
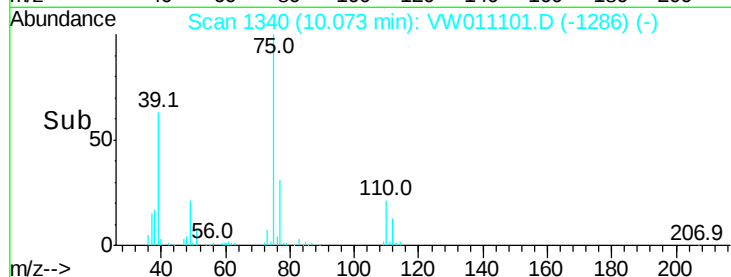
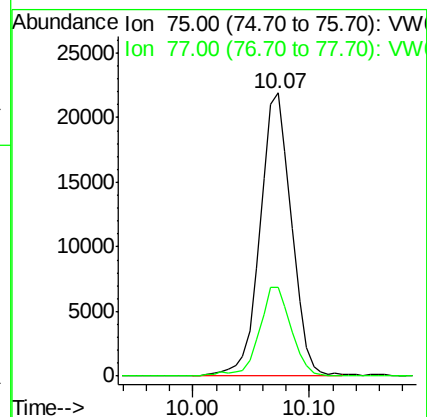
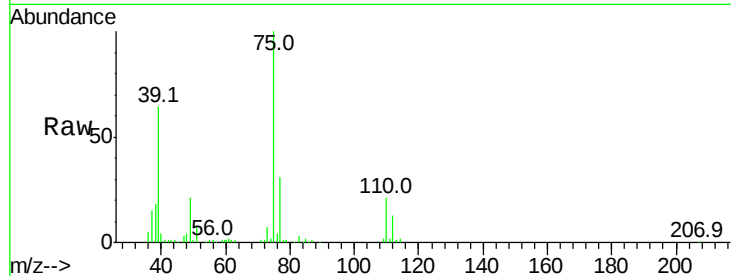
VSTD00504

Tgt Ion: 75 Resp: 40998

Ion Ratio Lower Upper

75 100

77 31.2 21.1 39.1



#43

4-Methyl-2-pentanone

Concen: 9.455 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

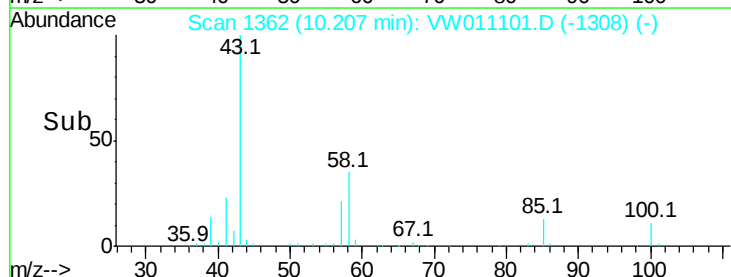
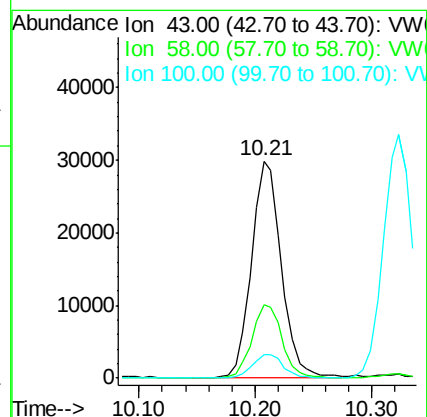
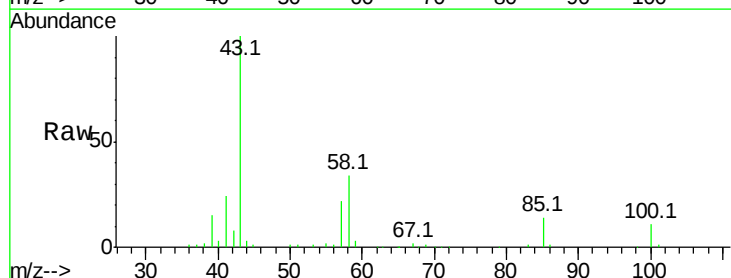
Tgt Ion: 43 Resp: 52988

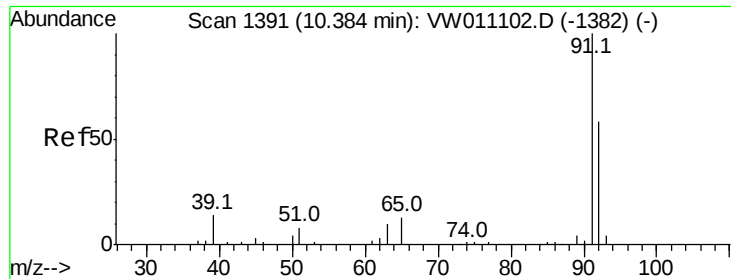
Ion Ratio Lower Upper

43 100

58 34.4 28.1 42.1

100 11.4 9.3 13.9





#44

Toluene

Concen: 4.929 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampled :

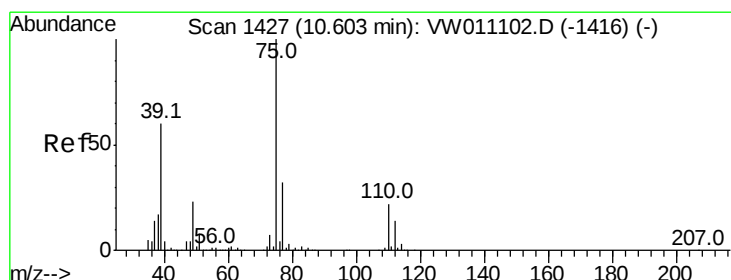
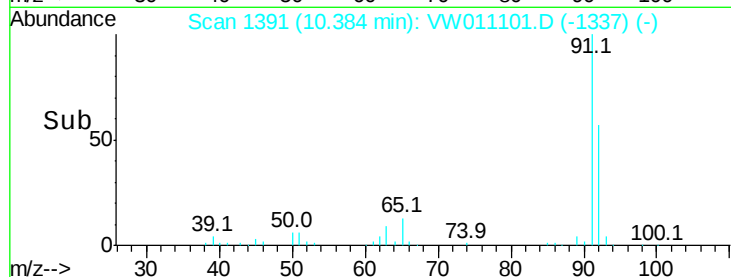
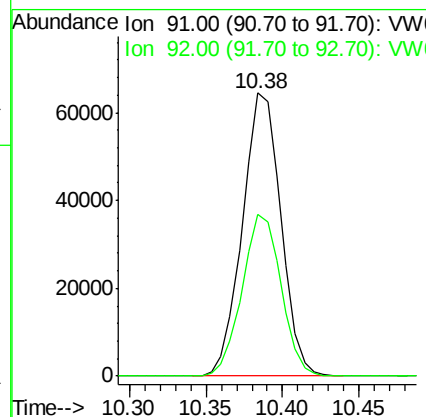
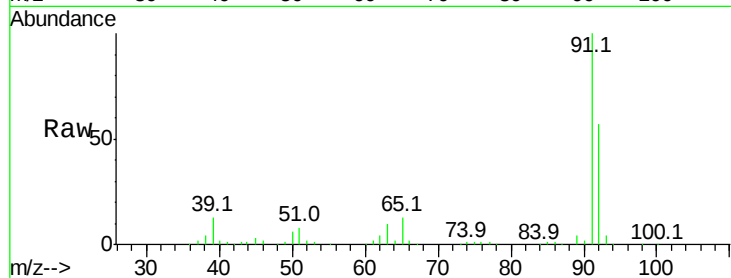
VSTD00504

Tgt Ion: 91 Resp: 113090

Ion Ratio Lower Upper

91 100

92 57.1 40.8 75.8



#45

trans-1,3-Dichloropropene

Concen: 4.343 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW011101.D

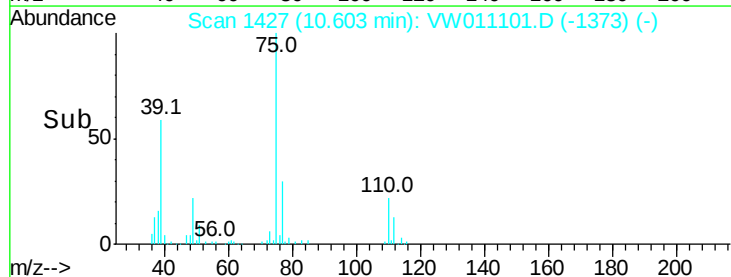
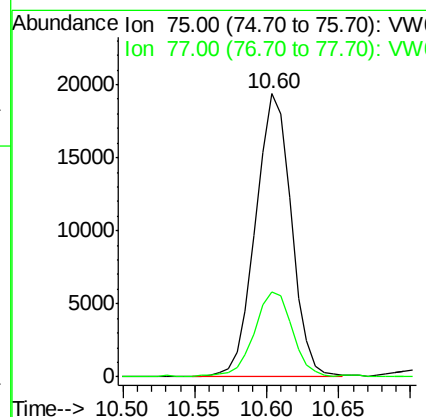
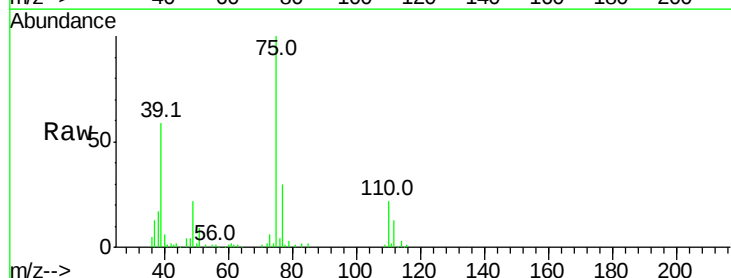
Acq: 02 Jul 2019 09:54

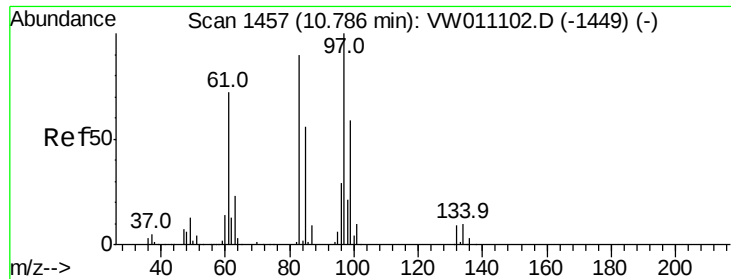
Tgt Ion: 75 Resp: 33354

Ion Ratio Lower Upper

75 100

77 30.0 22.3 41.5





#46

1,1,2-Trichloroethane

Concen: 4.882 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD00504

Tgt Ion: 97 Resp: 20206

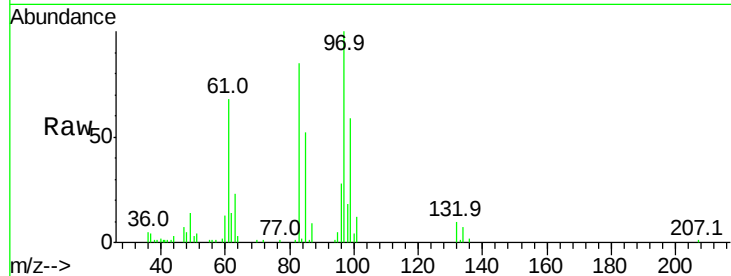
Ion Ratio Lower Upper

97 100

83 84.9 63.1 117.3

85 52.4 39.0 72.4

99 59.3 41.5 77.1

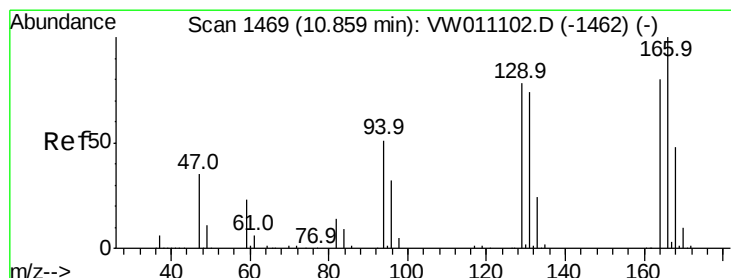
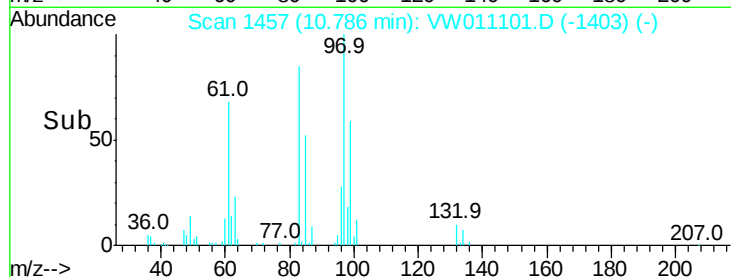
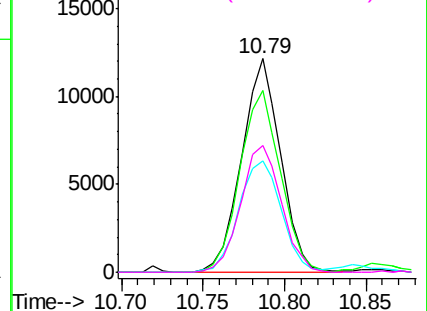


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 5.182 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Tgt Ion: 164 Resp: 21866

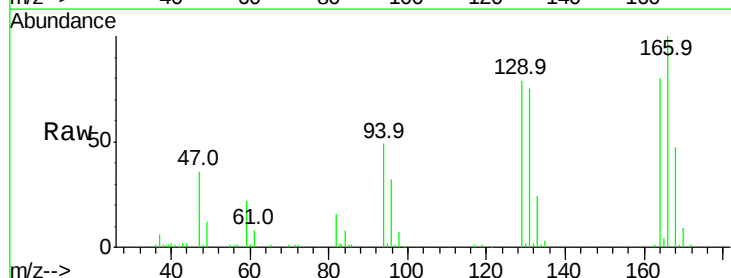
Ion Ratio Lower Upper

164 100

129 97.9 68.5 127.1

131 93.6 64.8 120.4

166 124.4 87.9 163.3

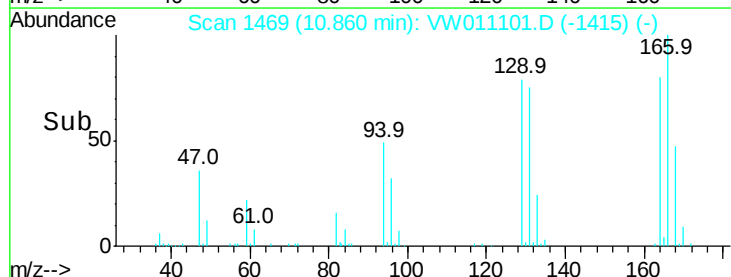
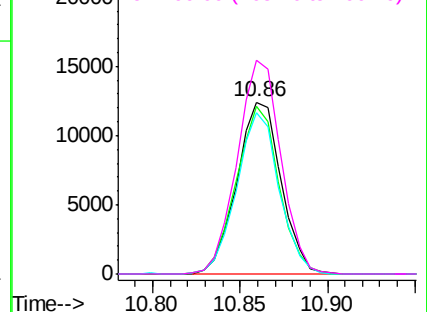


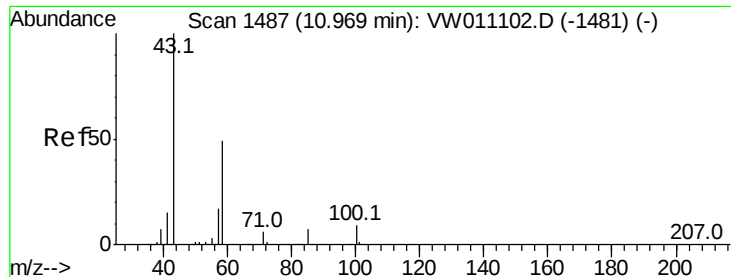
Abundance Ion 164.00 (163.70 to 164.70): V

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

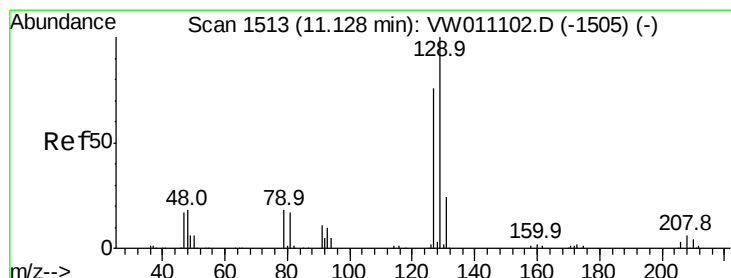
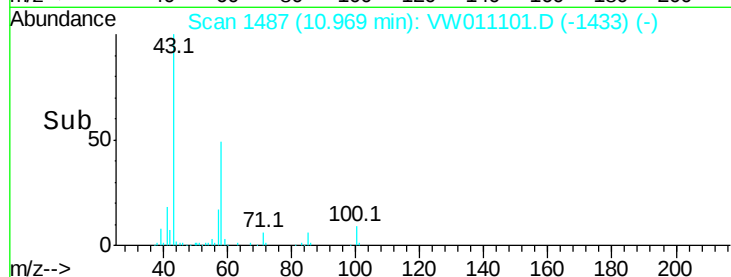
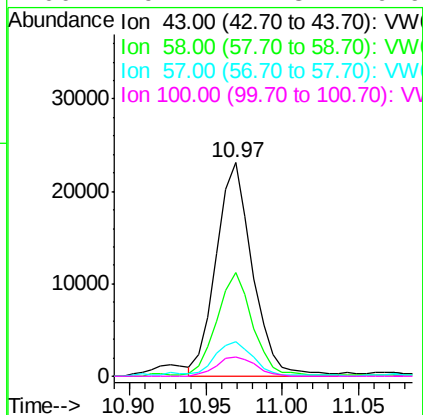
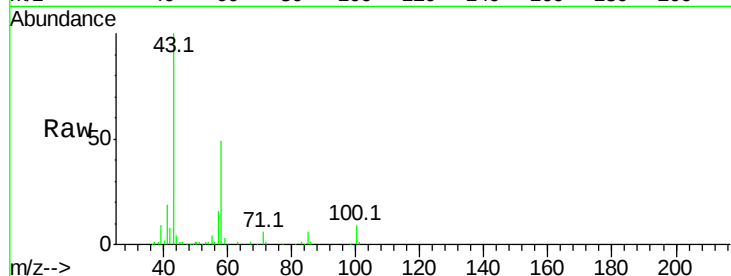




#49
2-Hexanone
Concen: 9.595 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW011101.D
Acq: 02 Jul 2019 09:54

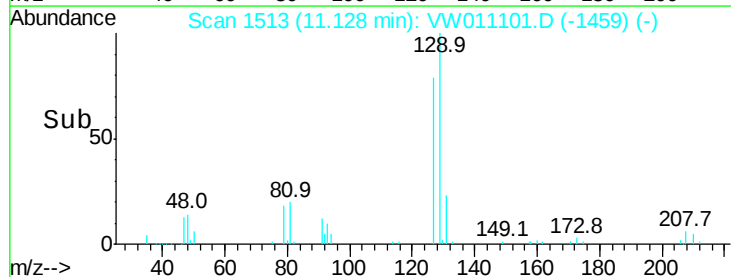
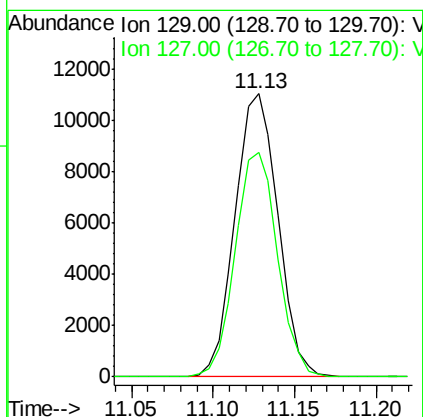
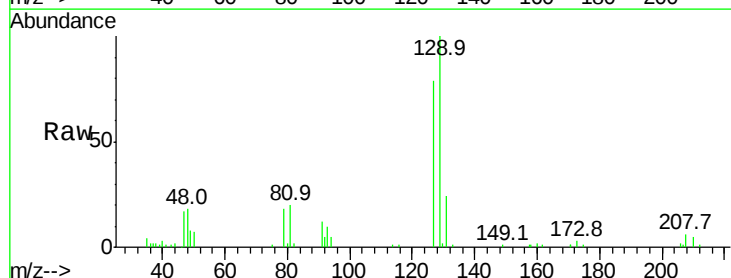
Instrument :
MSVOA_W
ClientSampled :
VSTD00504

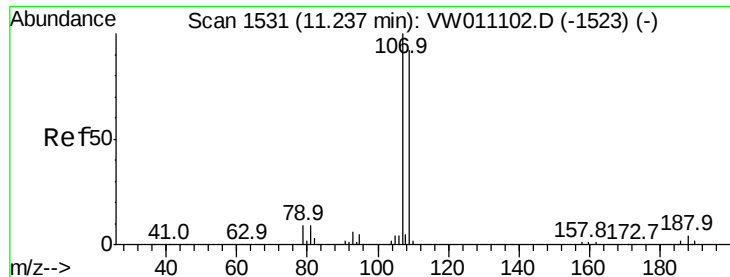
Tgt Ion: 43 Resp: 38255
Ion Ratio Lower Upper
43 100
58 47.8 38.4 57.6
57 16.8 13.3 19.9
100 9.7 7.3 10.9



#50
Dibromochloromethane
Concen: 4.434 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW011101.D
Acq: 02 Jul 2019 09:54

Tgt Ion: 129 Resp: 20205
Ion Ratio Lower Upper
129 100
127 79.3 53.3 99.1

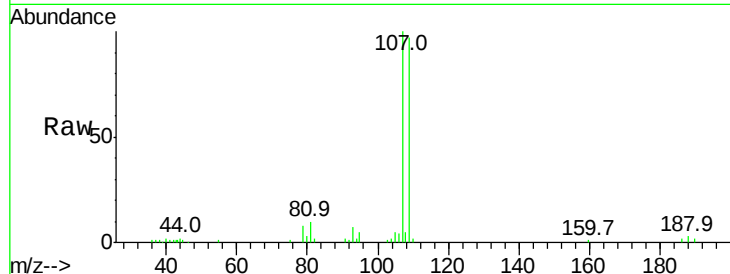




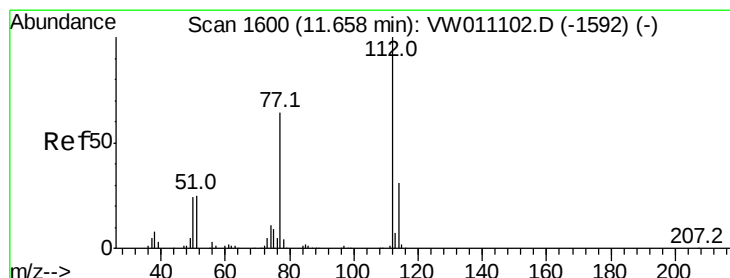
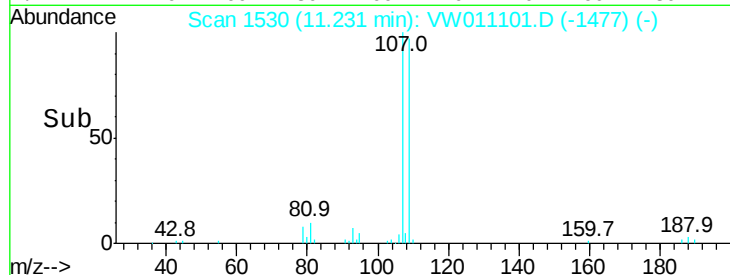
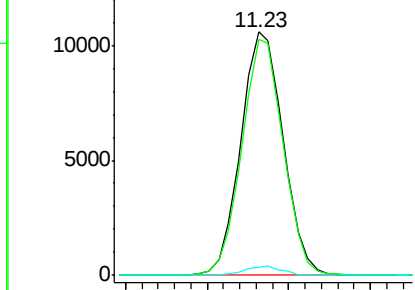
#51
1,2-Dibromoethane
Concen: 4.785 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.01 min
Lab File: VW011101.D
Acq: 02 Jul 2019 09:54

Instrument :
MSVOA_W
ClientSampleId :
VSTD00504

Tgt Ion:107 Resp: 19153
Ion Ratio Lower Upper
107 100
109 97.2 64.3 119.3
188 3.3 3.2 4.8

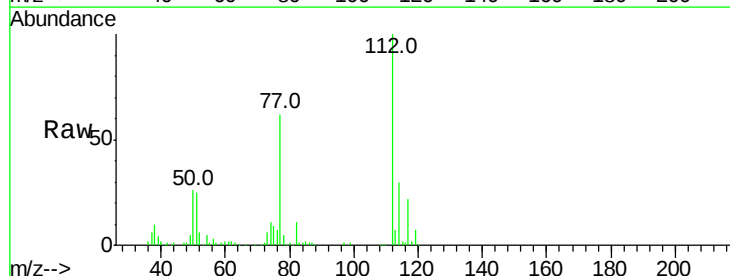


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

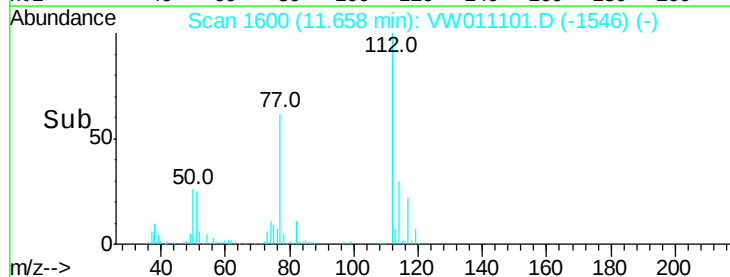
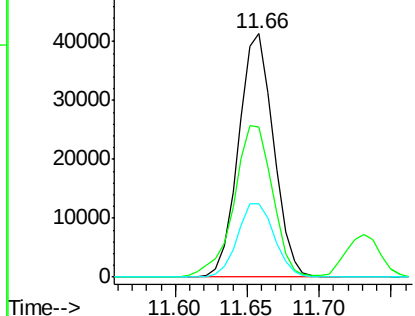


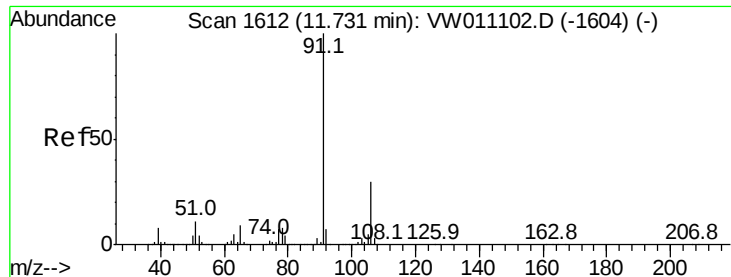
#52
Chlorobenzene
Concen: 5.043 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW011101.D
Acq: 02 Jul 2019 09:54

Tgt Ion:112 Resp: 69621
Ion Ratio Lower Upper
112 100
77 61.7 51.2 76.8
114 30.2 22.0 40.8



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V

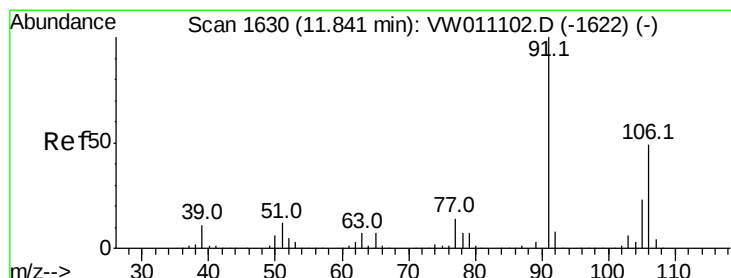
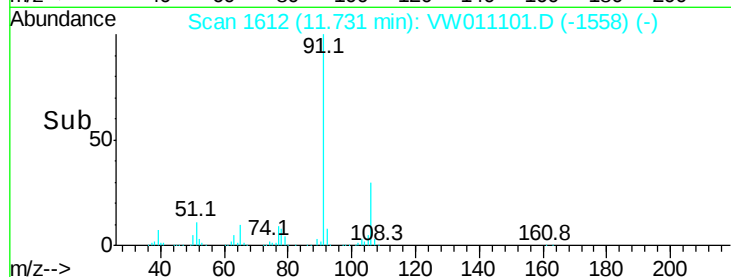
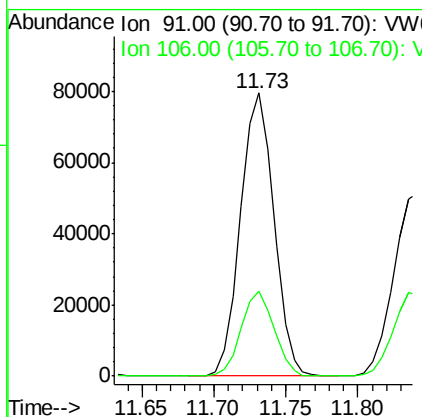
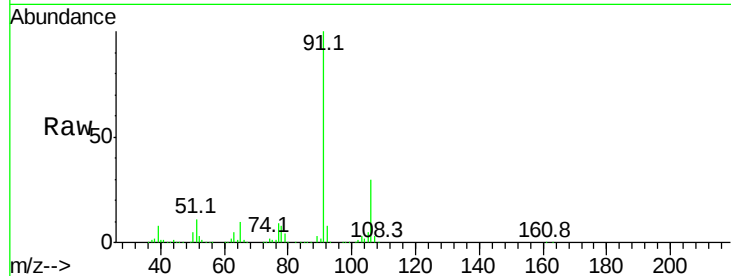




#53
Ethylbenzene
Concen: 4.967 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011101.D
Acq: 02 Jul 2019 09:54

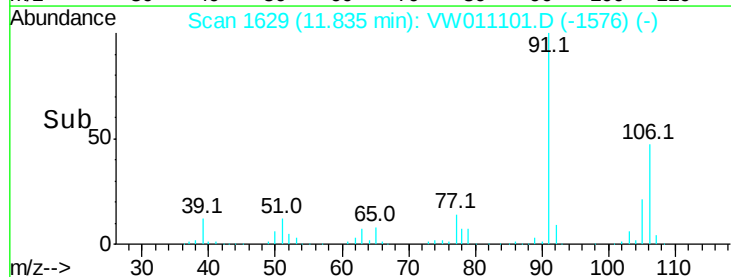
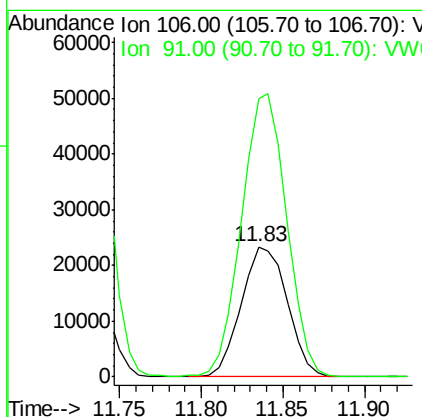
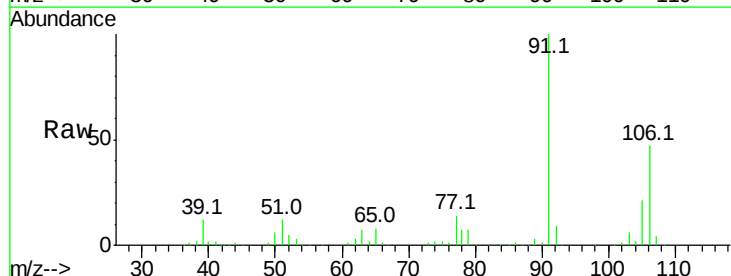
Instrument :
MSVOA_W
ClientSampleId :
VSTD00504

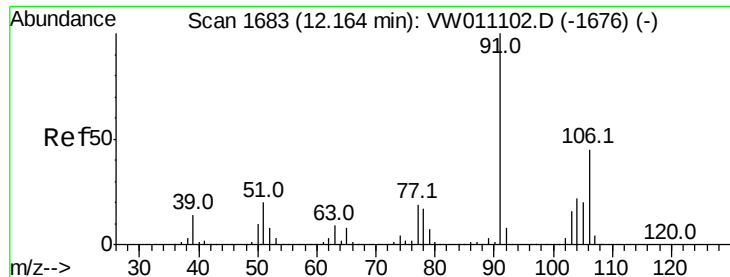
Tgt Ion: 91 Resp: 128375
Ion Ratio Lower Upper
91 100
106 29.8 20.6 38.4



#54
m,p-Xylene
Concen: 4.891 ug/L
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW011101.D
Acq: 02 Jul 2019 09:54

Tgt Ion: 106 Resp: 45880
Ion Ratio Lower Upper
106 100
91 213.4 142.6 264.8





#55

o-xylene

Concen: 4.808 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampled :

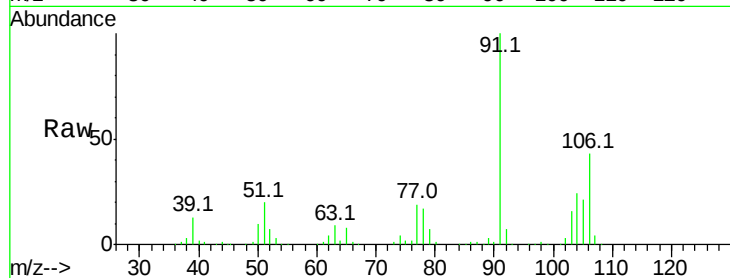
VSTD00504

Tgt Ion:106 Resp: 43276

Ion Ratio Lower Upper

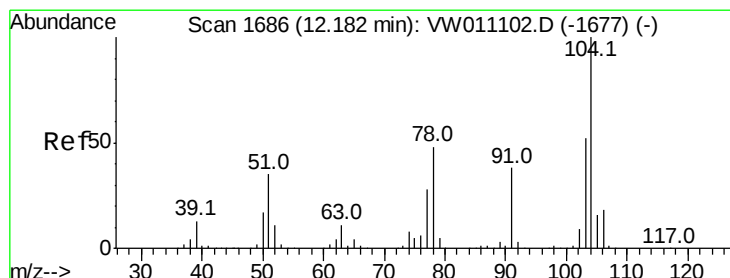
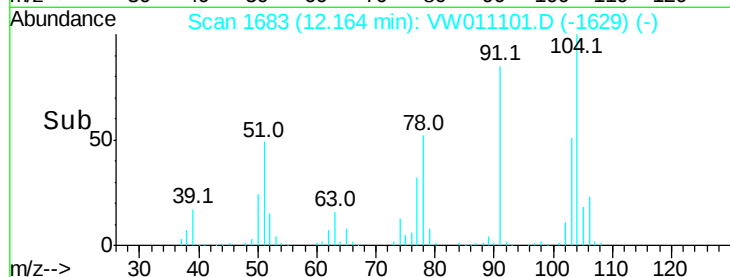
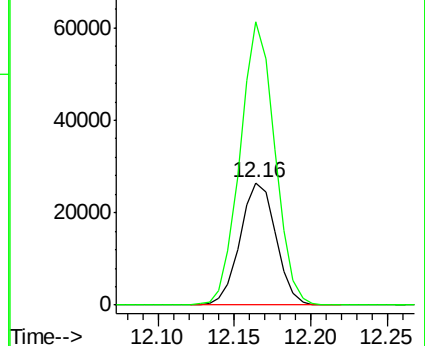
106 100

91 231.0 154.6 287.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 4.756 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW011101.D

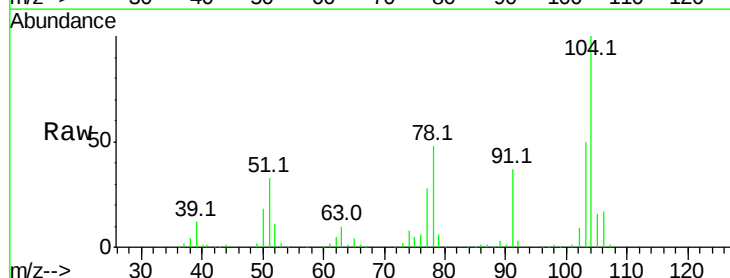
Acq: 02 Jul 2019 09:54

Tgt Ion:104 Resp: 73822

Ion Ratio Lower Upper

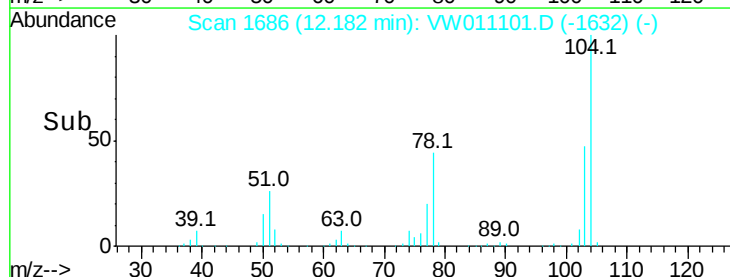
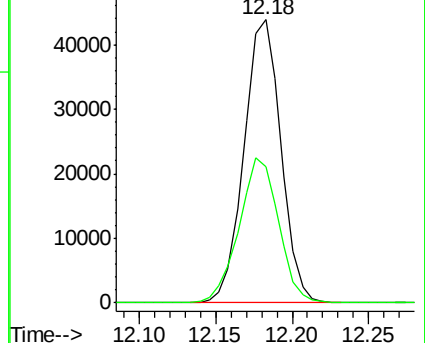
104 100

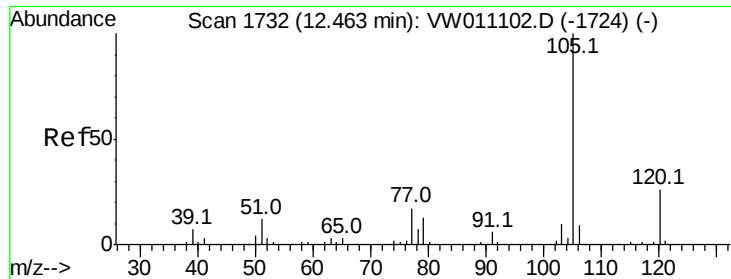
78 48.2 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 4.899 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD00504

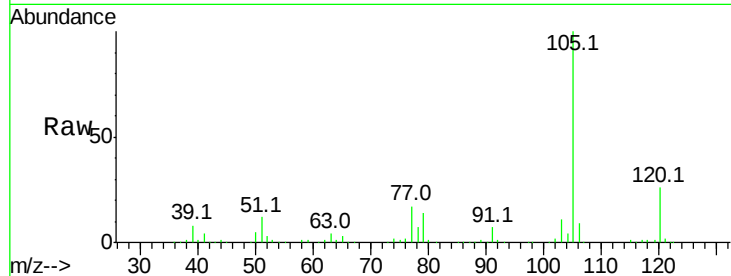
Tgt Ion: 105 Resp: 119634

Ion Ratio Lower Upper

105 100

120 25.8 20.7 31.1

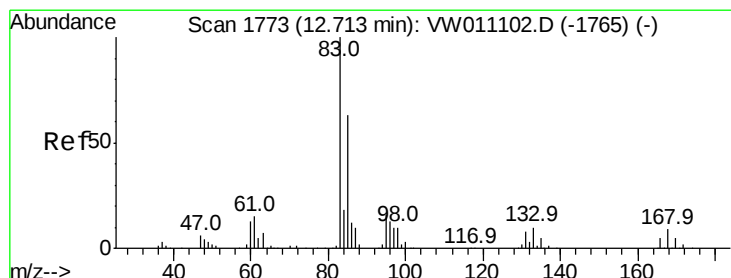
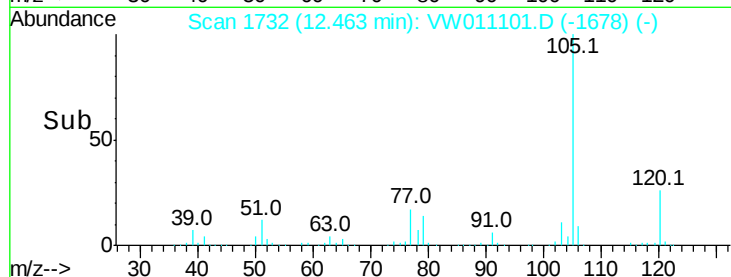
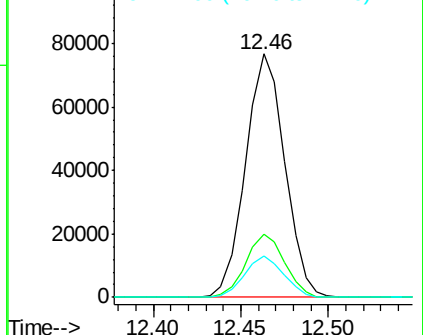
77 17.1 13.5 20.3



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.841 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

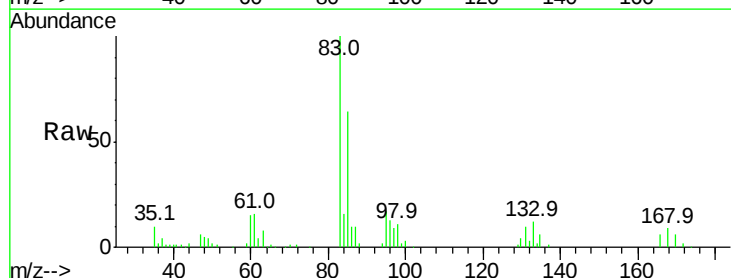
Tgt Ion: 83 Resp: 26198

Ion Ratio Lower Upper

83 100

85 63.6 44.0 81.6

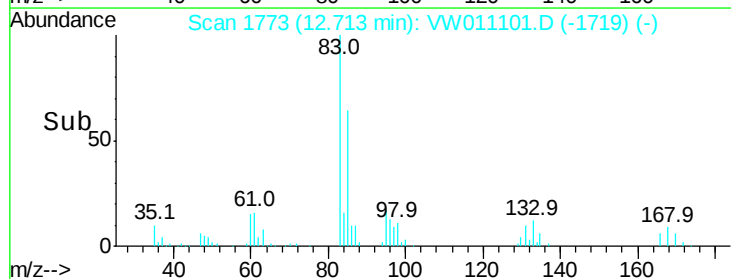
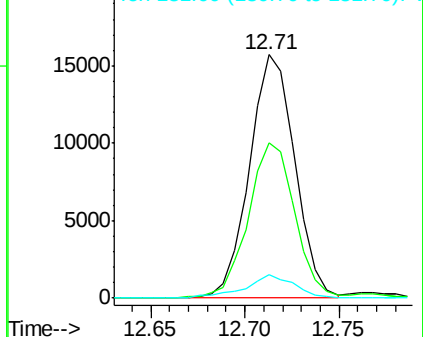
131 9.6 6.7 10.1

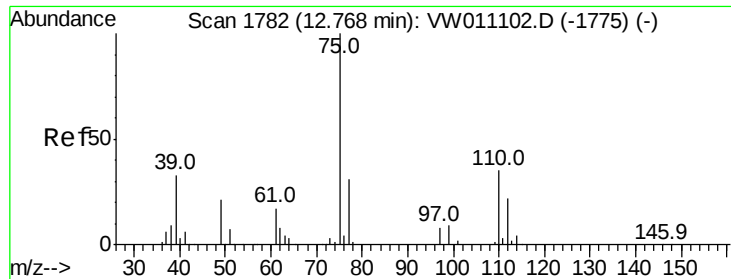


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 4.828 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

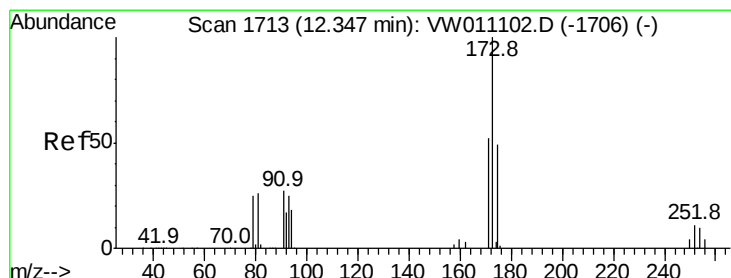
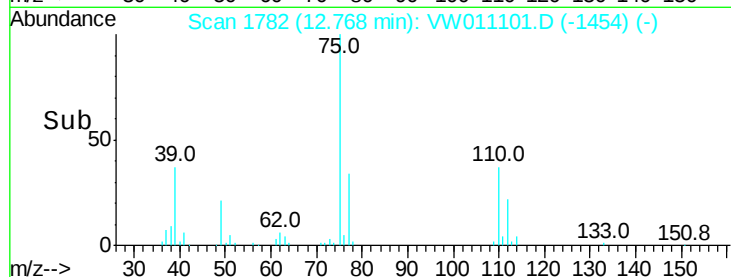
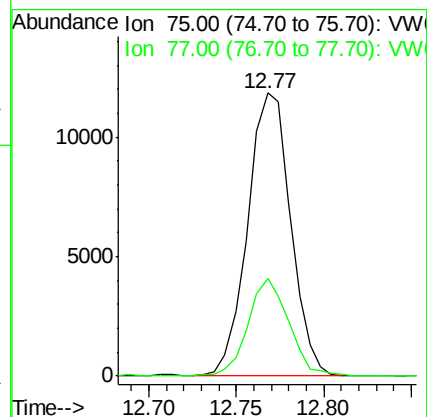
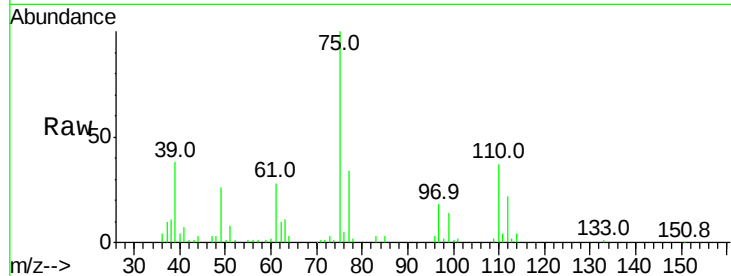
VSTD00504

Tgt Ion: 75 Resp: 20287

Ion Ratio Lower Upper

75 100

77 32.6 25.4 38.0



#62

Bromoform

Concen: 4.311 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

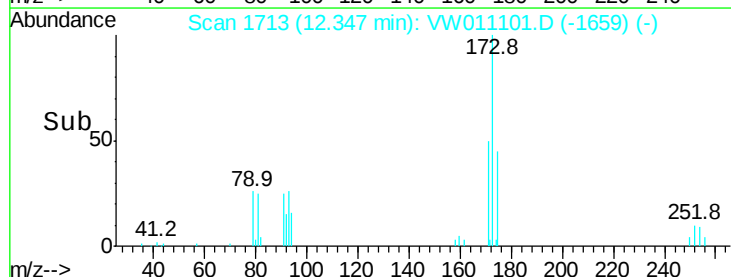
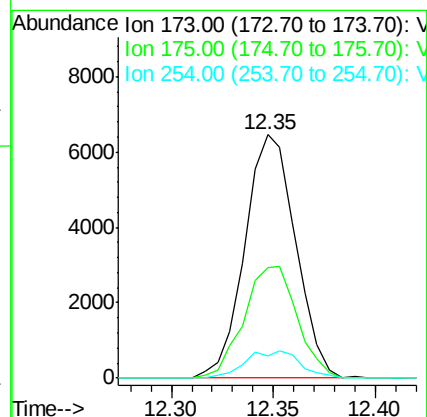
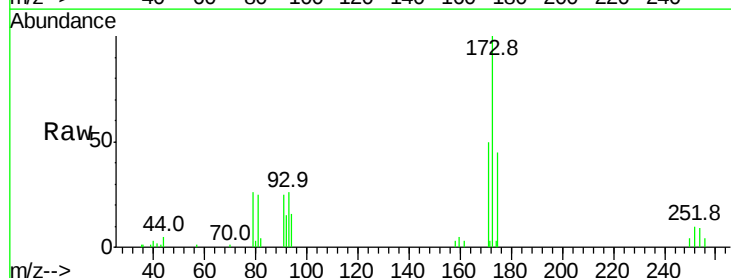
Tgt Ion: 173 Resp: 11172

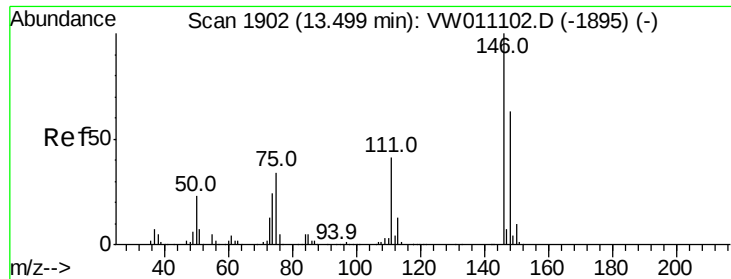
Ion Ratio Lower Upper

173 100

175 48.1 39.0 58.6

254 5.9 8.5 12.7#

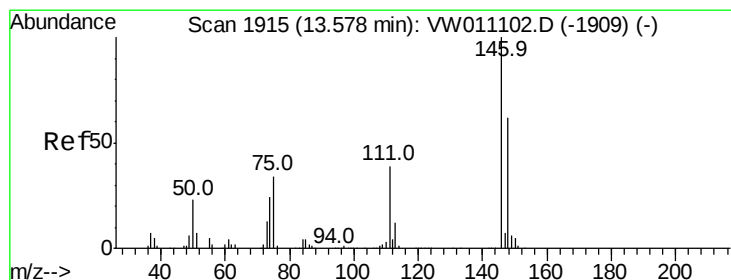
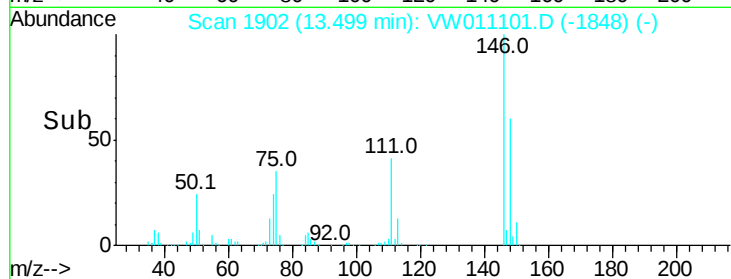
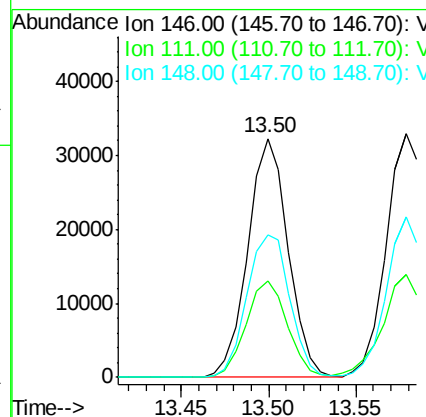
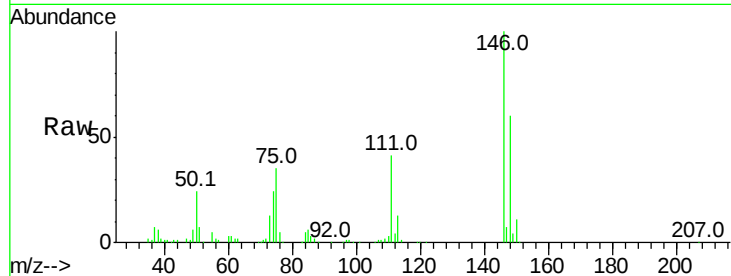




#63
 1,3-Dichlorobenzene
 Concen: 4.888 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW011101.D
 Acq: 02 Jul 2019 09:54

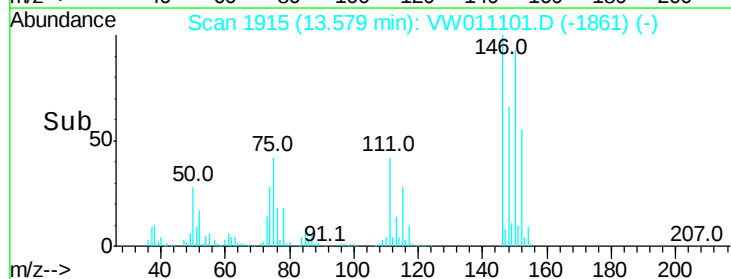
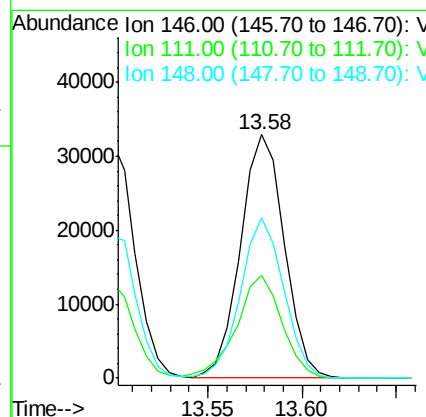
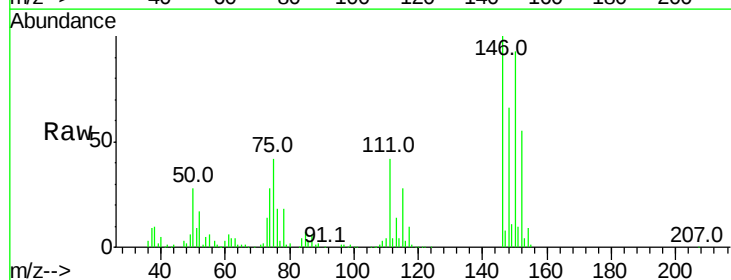
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00504

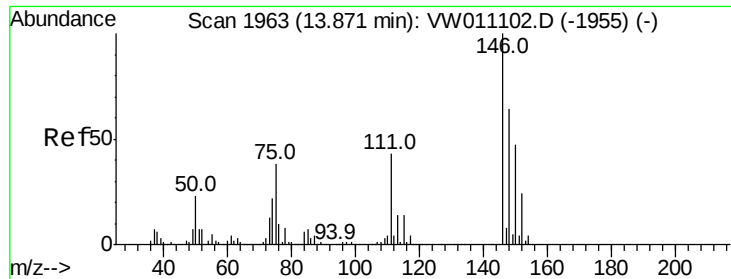
Tgt Ion:146 Resp: 51524
 Ion Ratio Lower Upper
 146 100
 111 40.5 29.0 53.8
 148 59.9 44.4 82.5



#64
 1,4-Dichlorobenzene
 Concen: 5.018 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW011101.D
 Acq: 02 Jul 2019 09:54

Tgt Ion:146 Resp: 53131
 Ion Ratio Lower Upper
 146 100
 111 42.4 27.5 51.1
 148 65.8 43.8 81.3





#65

1,2-Dichlorobenzene

Concen: 5.004 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD00504

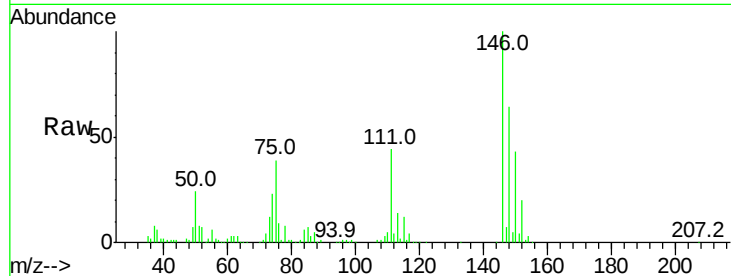
Tgt Ion:146 Resp: 48783

Ion Ratio Lower Upper

146 100

111 44.3 34.1 51.1

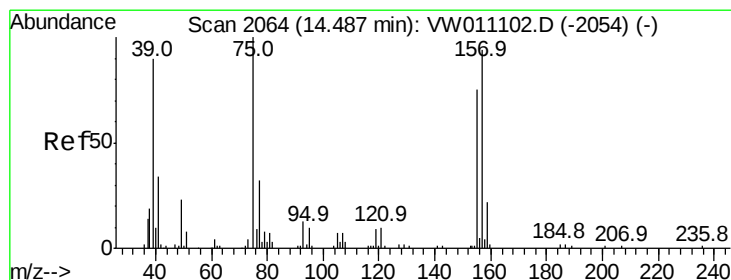
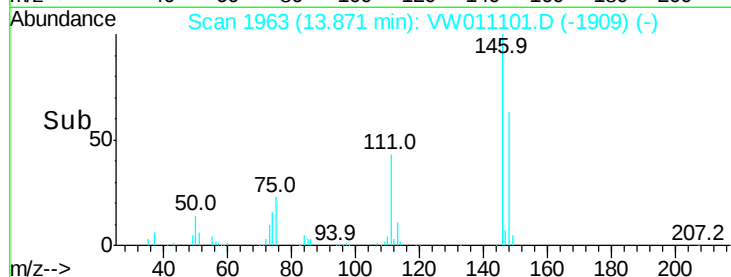
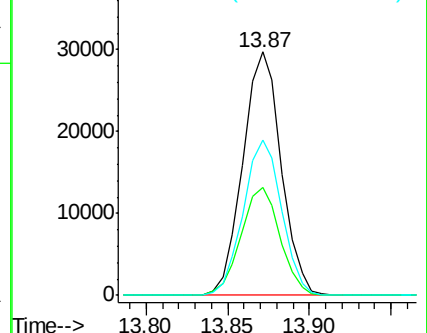
148 63.7 51.0 76.4



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: 4.212 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

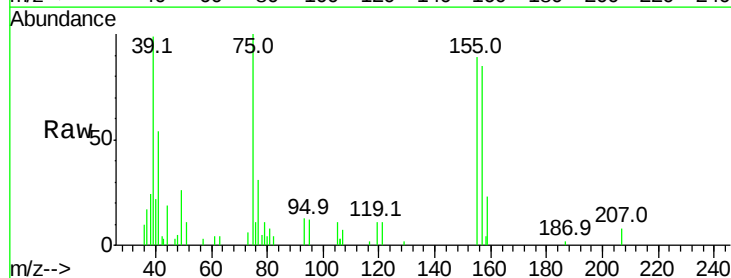
Tgt Ion: 75 Resp: 4202

Ion Ratio Lower Upper

75 100

157 85.4 75.3 112.9

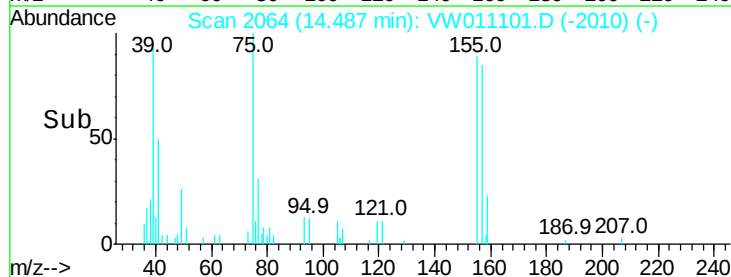
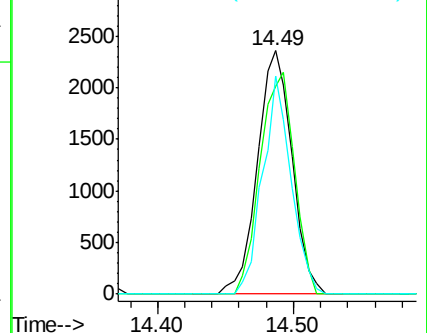
155 89.4 60.2 90.2

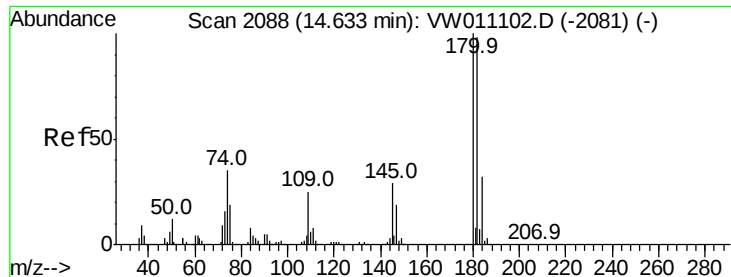


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

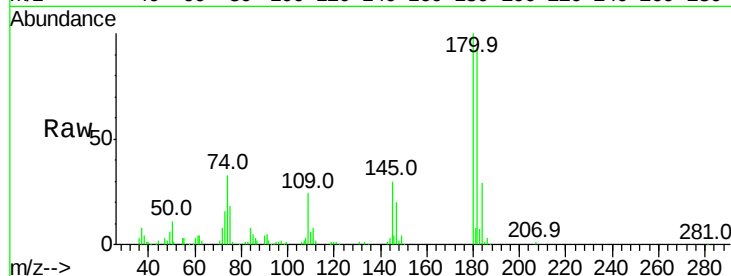




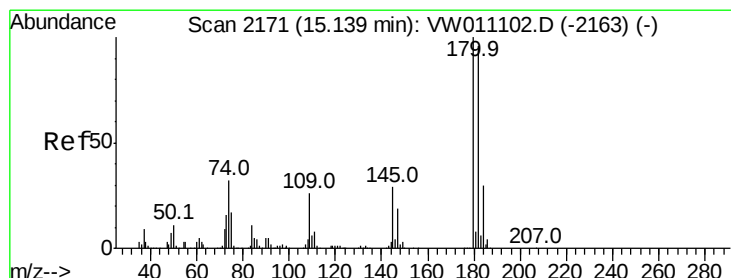
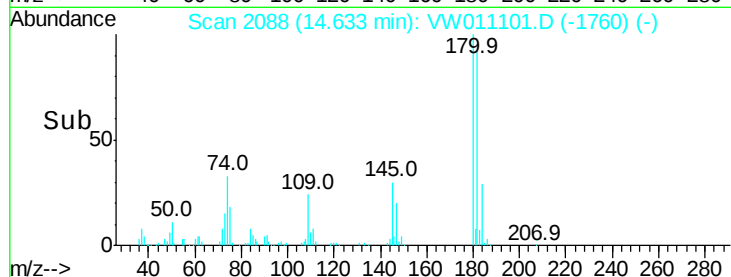
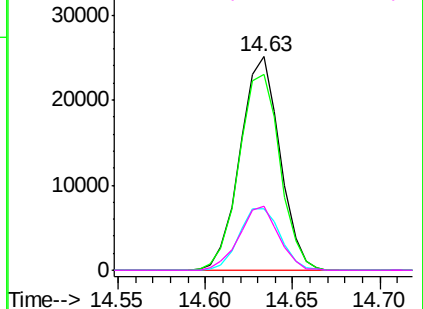
#67
 1,3,5-Trichlorobenzene
 Concen: 4.951 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW011101.D
 Acq: 02 Jul 2019 09:54

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00504

Tgt Ion:180 Resp: 39719
 Ion Ratio Lower Upper
 180 100
 182 94.7 77.0 115.4
 184 30.1 24.3 36.5
 145 29.6 24.2 36.2

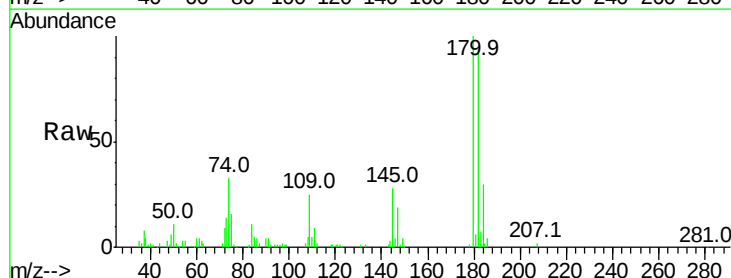


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

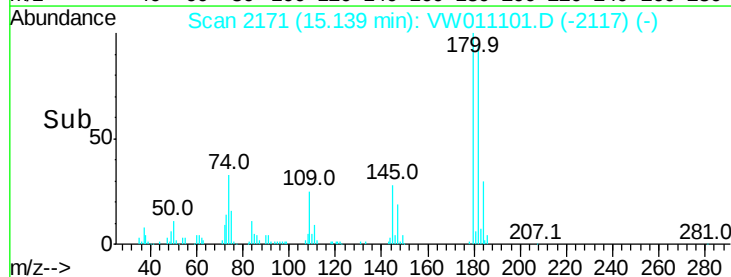
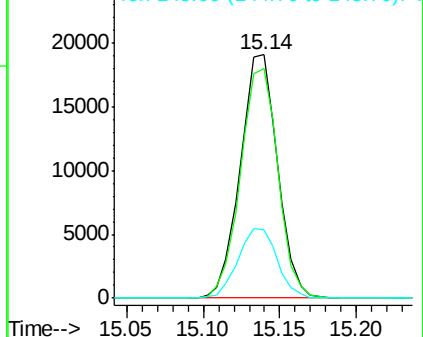


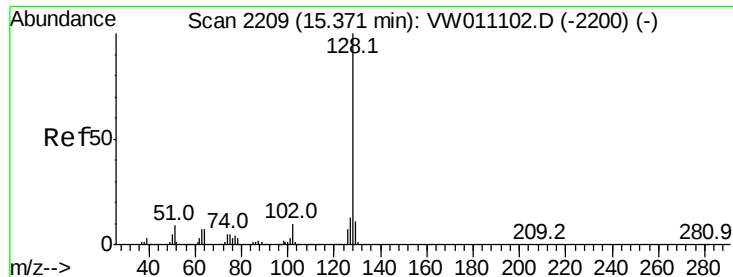
#68
 1,2,4-trichlorobenzene
 Concen: 4.767 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW011101.D
 Acq: 02 Jul 2019 09:54

Tgt Ion:180 Resp: 32415
 Ion Ratio Lower Upper
 180 100
 182 94.5 77.0 115.6
 145 29.6 24.5 36.7



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





#69

Naphthalene

Concen: 4.222 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD00504

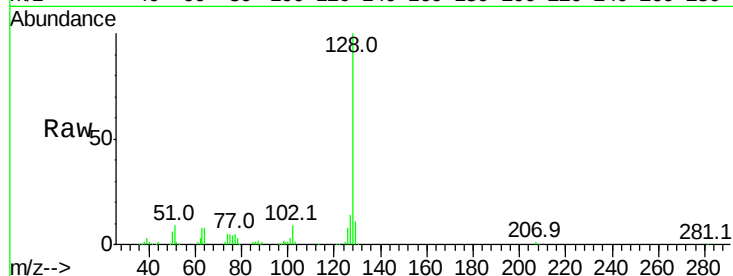
Tgt Ion:128 Resp: 61257

Ion Ratio Lower Upper

128 100

129 11.0 9.0 13.4

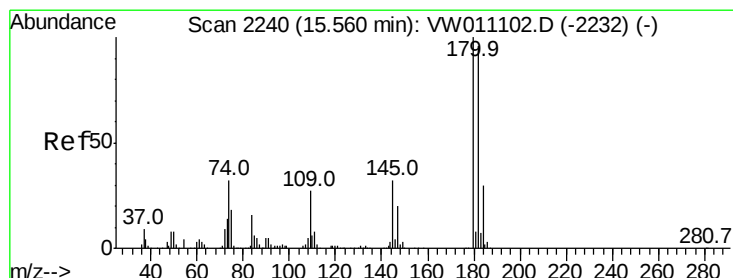
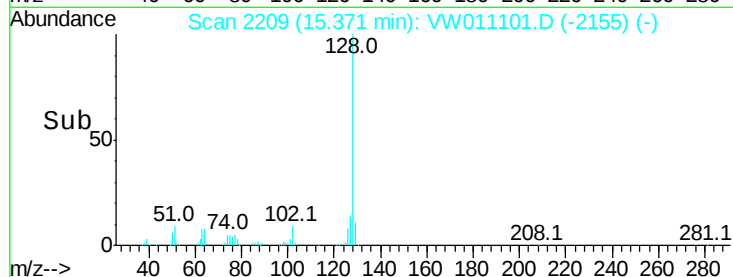
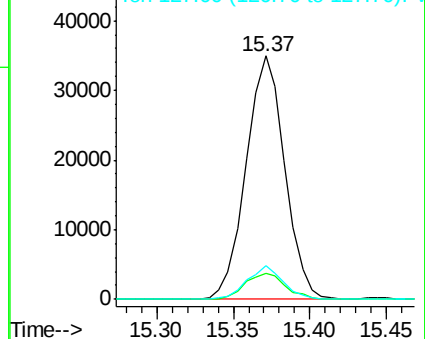
127 12.9 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.788 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW011101.D

Acq: 02 Jul 2019 09:54

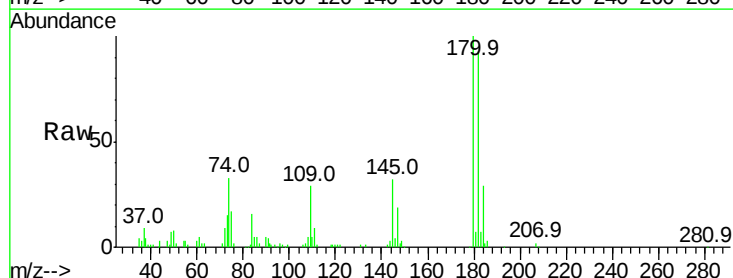
Tgt Ion:180 Resp: 29571

Ion Ratio Lower Upper

180 100

182 95.3 76.4 114.6

145 33.2 25.5 38.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

