

Data File : VW013614.D
Acq On : 18 Oct 2019 09:57
Operator : SY/VA
Sample : VSTD2.521
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.507

Quant Time: Oct 18 11:40:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
Quant Title : VOC Analysis
QLast Update : Fri Oct 18 11:37:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	330762	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	320273	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	187226	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	9775	2.58	ug/L	0.00
7) Chloroethane-d5	2.89	69	10503	3.61	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.03	63	23300	2.97	ug/L	0.00
20) 2-Butanone-d5	7.09	46	8028	7.04	ug/L	0.00
24) Chloroform-d	7.65	84	25021	3.48	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	13456	3.61	ug/L	0.00
29) Benzene-d6	8.27	84	53476	3.12	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	15508	3.05	ug/L	0.00
37) Toluene-d8	10.32	98	48295	2.97	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	7311	3.22	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	5173	5.08	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	12629	3.09	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	18436	2.74	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	10330	5.731 ug/L	99
3) Chloromethane	2.21	50	10697	3.378 ug/L	83
5) Vinyl chloride	2.37	62	12098	2.700 ug/L	92
6) Bromomethane	2.79	94	9849	3.589 ug/L	96
8) Chloroethane	2.93	64	9611	3.824 ug/L	96
9) Trichlorofluoromethane	3.27	101	8902	3.811 ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	14399	3.474 ug/L	# 52
12) 1,1-Dichloroethene	4.04	96	12815	3.086 ug/L	85
13) Acetone	4.13	43	11511	8.783 ug/L	72
14) Carbon disulfide	4.39	76	34566	2.728 ug/L	98
15) Methyl Acetate	4.68	43	6809	3.331 ug/L	100
16) Methylene chloride	4.92	84	21139	4.219 ug/L	96
17) Methyl tert-butyl Ether	5.43	73	19159	2.871 ug/L	96
18) trans-1,2-Dichloroethene	5.42	96	15319	3.457 ug/L	90
19) 1,1-Dichloroethane	6.21	63	25614	3.443 ug/L	90
21) 2-Butanone	7.17	43	11948	7.452 ug/L	93
22) cis-1,2-Dichloroethene	7.17	96	16321	3.444 ug/L	98
23) Bromochloromethane	7.51	128	7442	3.507 ug/L	92
25) Chloroform	7.68	83	26733	3.643 ug/L	99
27) 1,2-Dichloroethane	8.40	62	16813	3.622 ug/L	95
30) Cyclohexane	7.96	56	23713	2.816 ug/L	97
31) 1,1,1-Trichloroethane	7.87	97	20176	3.128 ug/L	98
32) Carbon tetrachloride	8.07	117	18990	3.069 ug/L	96
34) Benzene	8.32	78	60780	3.141 ug/L	100
35) Trichloroethene	9.10	95	14971	2.966 ug/L	94
36) Methylcyclohexane	9.34	83	27229	2.967 ug/L	96
40) 1,2-Dichloropropane	9.37	63	14991	3.216 ug/L	99
41) Bromodichloromethane	9.65	83	17404	3.040 ug/L	97
42) cis-1,3-Dichloropropene	10.07	75	21948	2.935 ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	21576	6.634 ug/L	97

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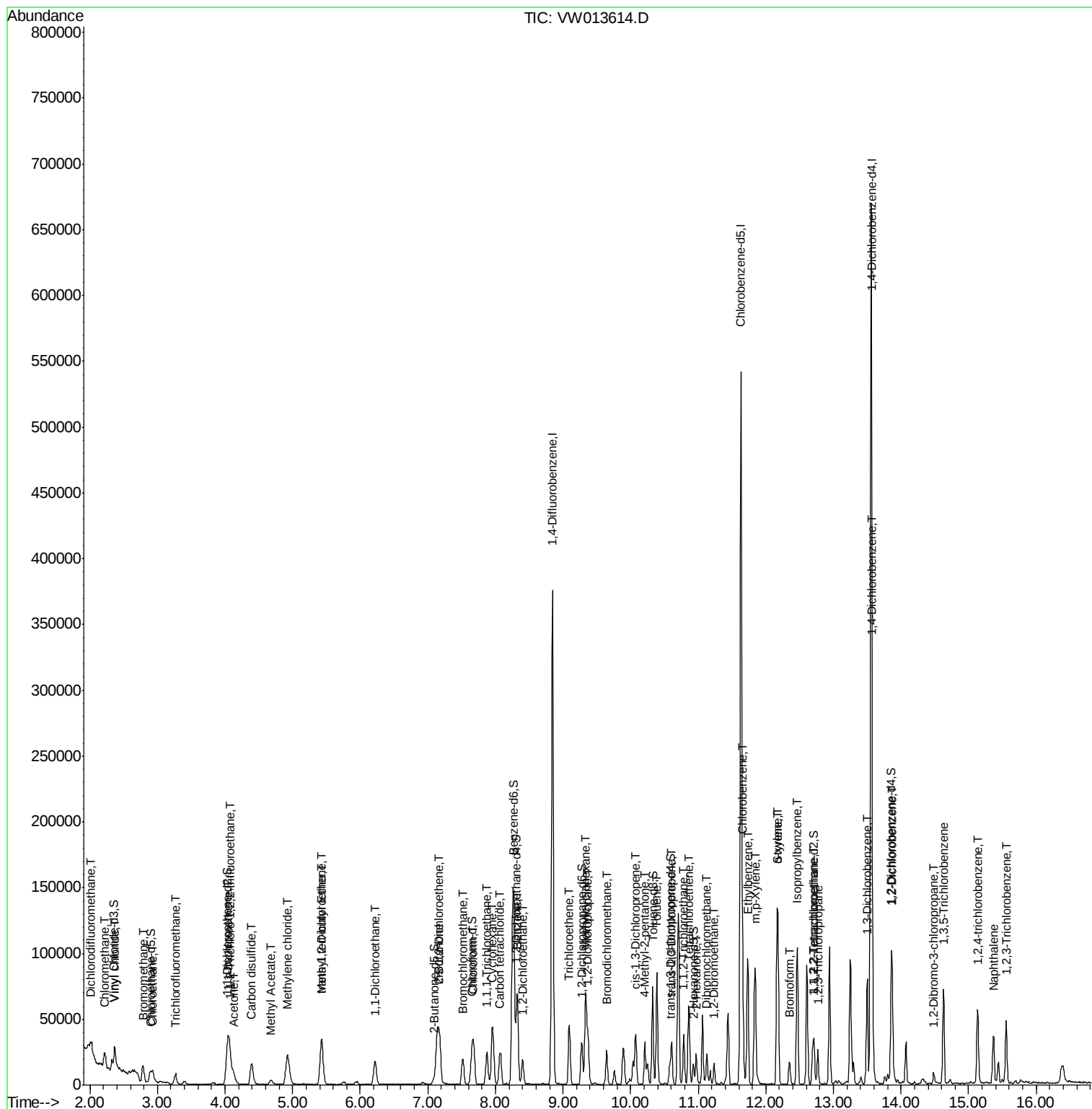
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.39	91	64827	3.092	ug/L	97
45) trans-1,3-Dichloropropene	10.60	75	18007	3.050	ug/L	95
46) 1,1,2-Trichloroethane	10.79	97	12039	3.403	ug/L	94
47) Tetrachloroethene	10.87	164	14631	3.181	ug/L	91
49) 2-Hexanone	10.97	43	14036	5.938	ug/L	99
50) Dibromochloromethane	11.13	129	13249	3.180	ug/L	90
51) 1,2-Dibromoethane	11.23	107	11093	3.192	ug/L	99
52) Chlorobenzene	11.66	112	41761	3.138	ug/L	98
53) Ethylbenzene	11.73	91	70323	3.030	ug/L	95
54) m,p-Xylene	11.84	106	26974	2.979	ug/L	100
55) o-xylene	12.16	106	25701	3.041	ug/L	95
56) Styrene	12.18	104	42296	2.938	ug/L	95
57) Isopropylbenzene	12.46	105	69440	3.029	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	13819	3.306	ug/L	95
59) 1,2,3-Trichloropropane	12.77	75	10469	3.354	ug/L	99
62) Bromoform	12.35	173	7887	2.619	ug/L #	97
63) 1,3-Dichlorobenzene	13.50	146	33939	2.705	ug/L	97
64) 1,4-Dichlorobenzene	13.58	146	33856	2.711	ug/L	90
65) 1,2-Dichlorobenzene	13.87	146	31105	2.757	ug/L	92
66) 1,2-Dibromo-3-chloropropan	14.48	75	2144	2.753	ug/L	99
67) 1,3,5-Trichlorobenzene	14.63	180	24118	2.547	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	19890	2.534	ug/L	100
69) Naphthalene	15.37	128	33924	2.373	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	18006	2.576	ug/L	98

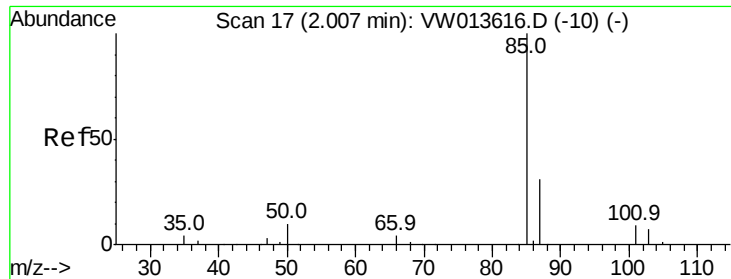
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 5.731 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

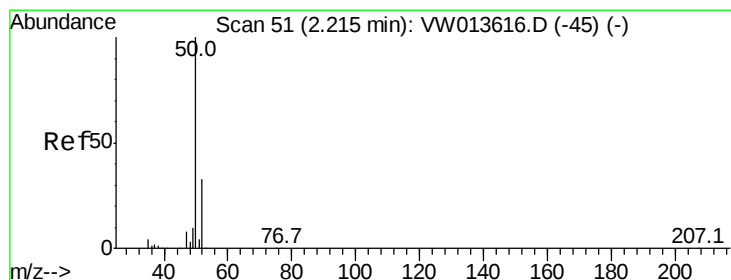
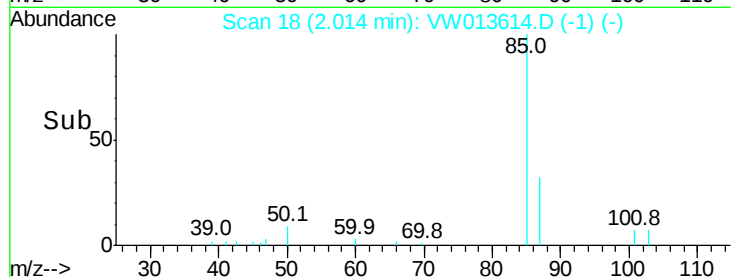
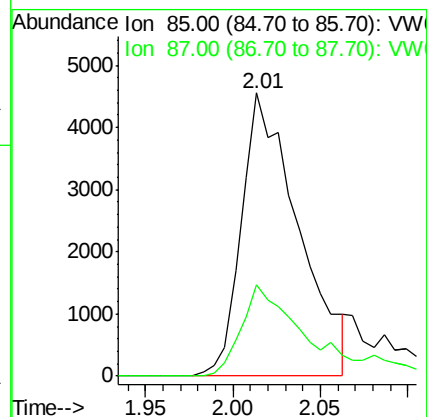
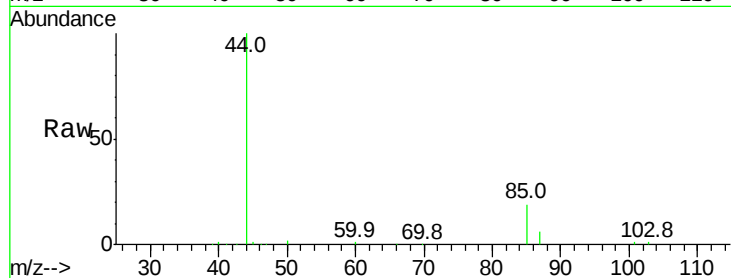
VSTD2.507

Tgt Ion: 85 Resp: 10330

Ion Ratio Lower Upper

85 100

87 29.3 20.2 37.4



#3

Chloromethane

Concen: 3.378 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW013614.D

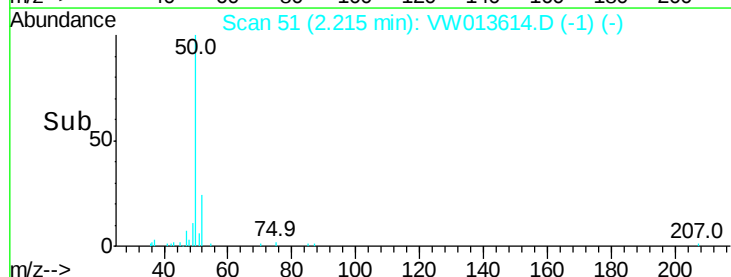
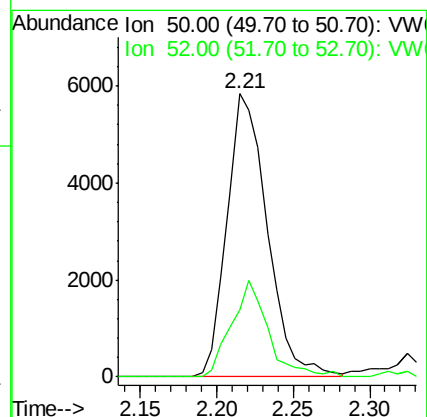
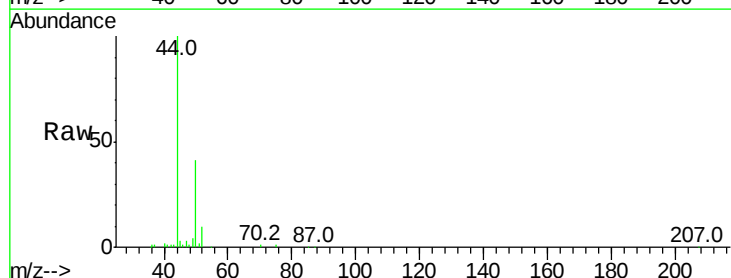
Acq: 18 Oct 2019 09:57

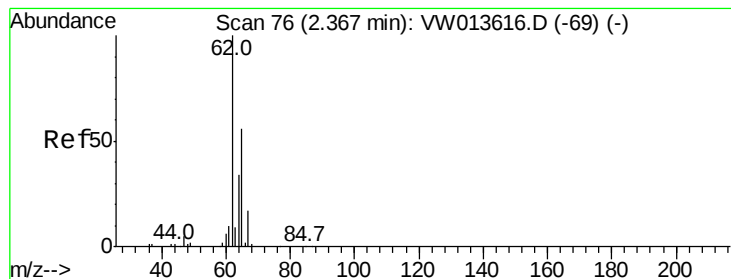
Tgt Ion: 50 Resp: 10697

Ion Ratio Lower Upper

50 100

52 23.6 23.3 43.3





#5

Vinyl chloride

Concen: 2.700 ug/L

RT: 2.37 min Scan# 77

Delta R.T. 0.01 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

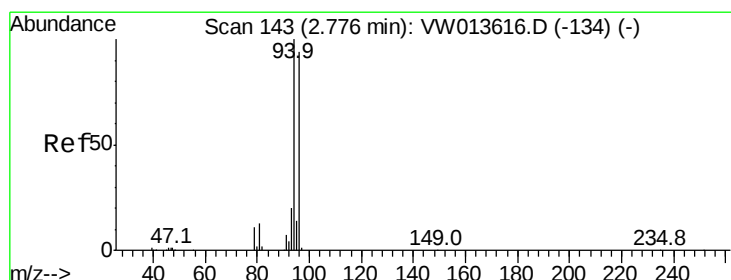
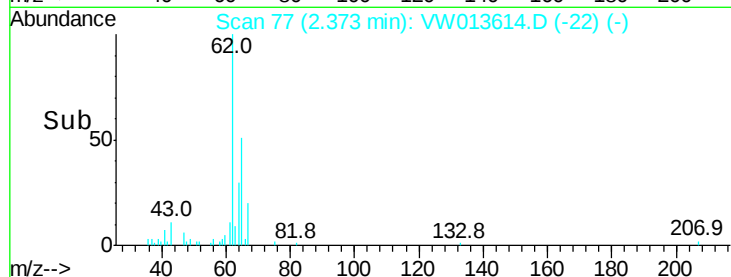
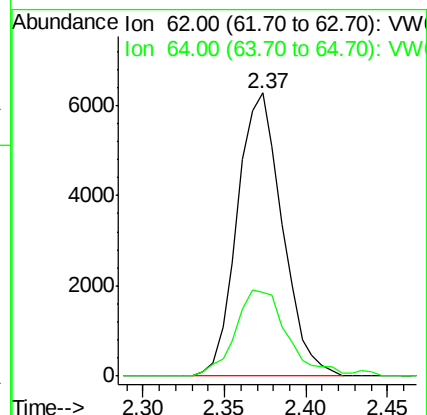
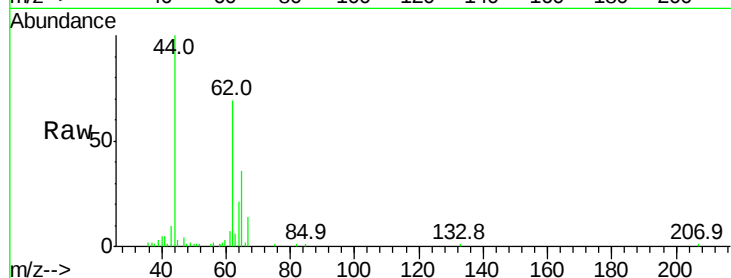
VSTD2.507

Tgt Ion: 62 Resp: 12098

Ion Ratio Lower Upper

62 100

64 29.6 23.9 44.5



#6

Bromomethane

Concen: 3.589 ug/L

RT: 2.79 min Scan# 145

Delta R.T. 0.01 min

Lab File: VW013614.D

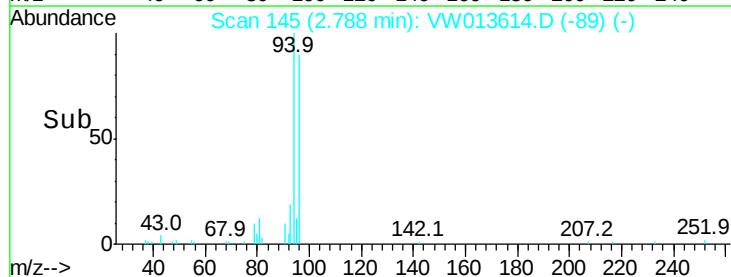
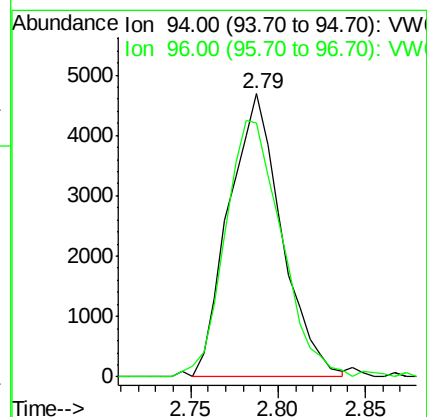
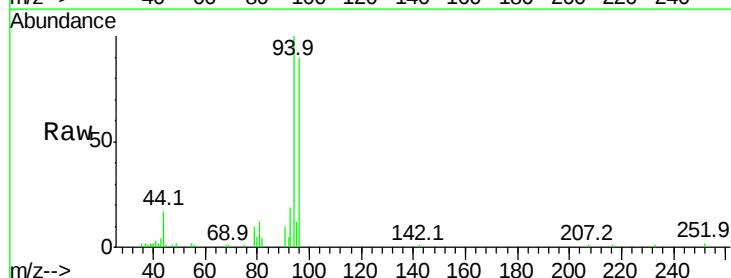
Acq: 18 Oct 2019 09:57

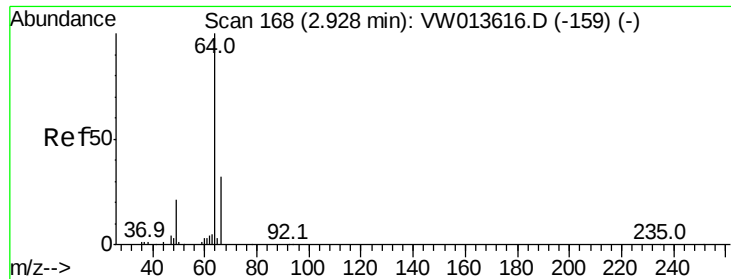
Tgt Ion: 94 Resp: 9849

Ion Ratio Lower Upper

94 100

96 96.6 9.3 176.9





#8

Chloroethane

Concen: 3.824 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

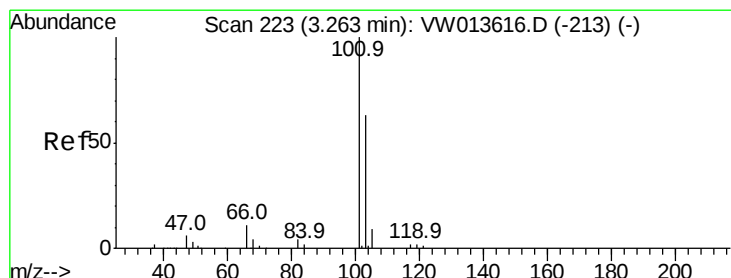
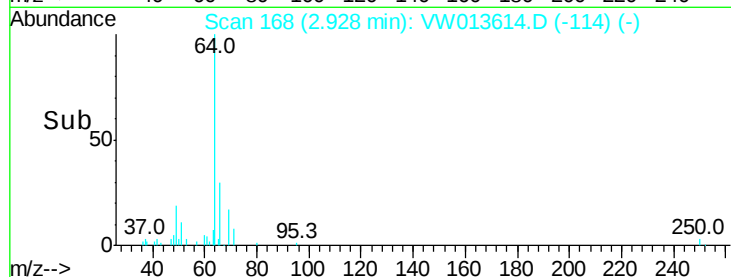
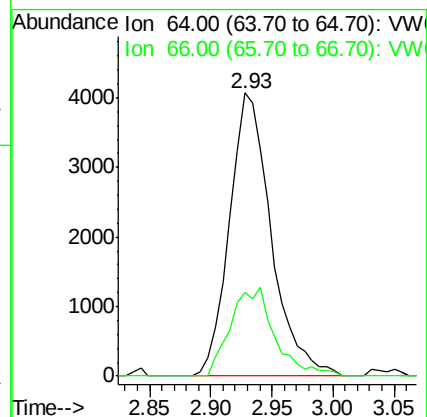
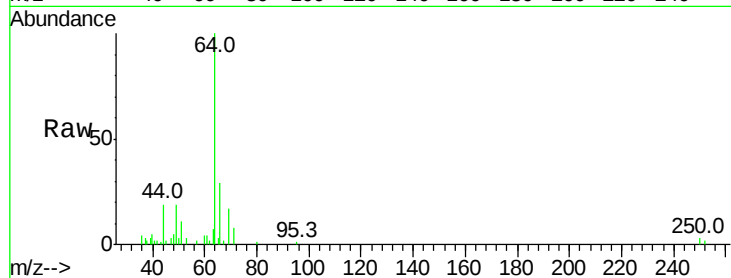
VSTD2.507

Tgt Ion: 64 Resp: 9611

Ion Ratio Lower Upper

64 100

66 29.4 22.2 41.2



#9

Trichlorofluoromethane

Concen: 3.811 ug/L

RT: 3.27 min Scan# 224

Delta R.T. 0.01 min

Lab File: VW013614.D

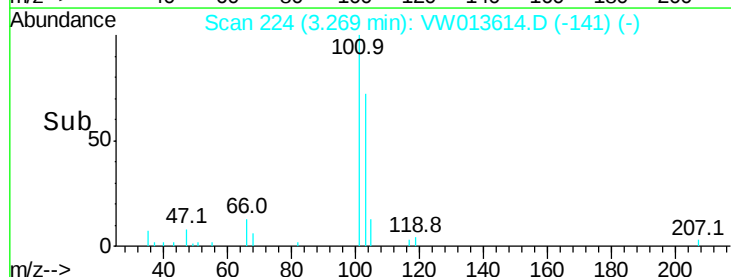
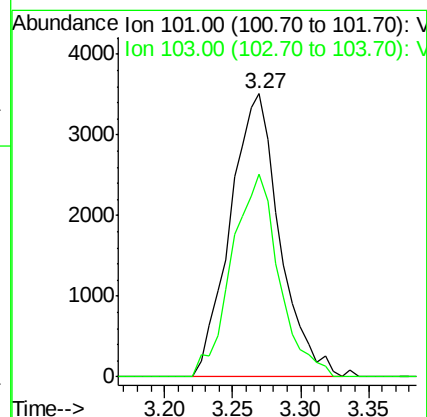
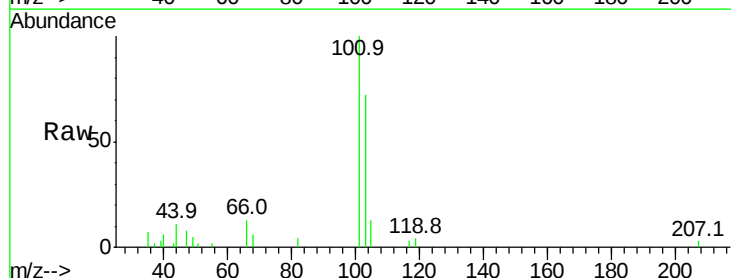
Acq: 18 Oct 2019 09:57

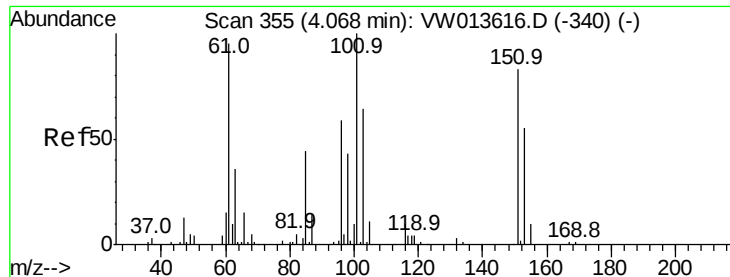
Tgt Ion: 101 Resp: 8902

Ion Ratio Lower Upper

101 100

103 68.7 46.5 86.5





#11

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

Concen: 3.474 ug/L

RT: 4.07 min Scan# 356

Delta R.T. 0.01 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.507

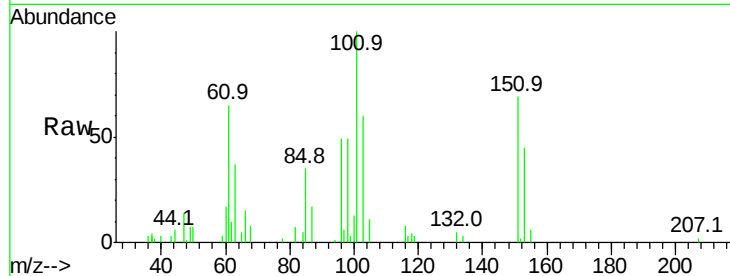
Tgt Ion:101 Resp: 14399

Ion Ratio Lower Upper

101 100

85 8.2 32.0 48.0#

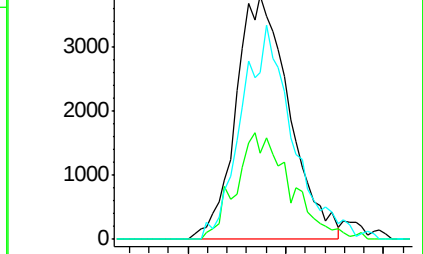
151 41.2 66.9 100.3#



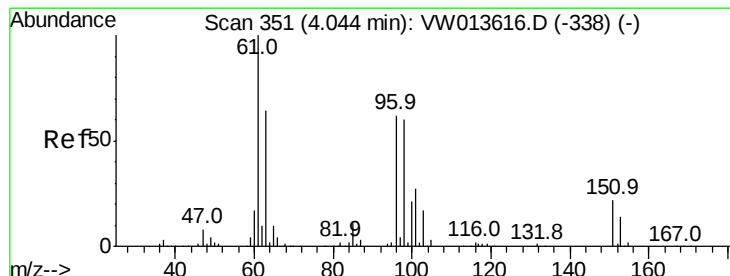
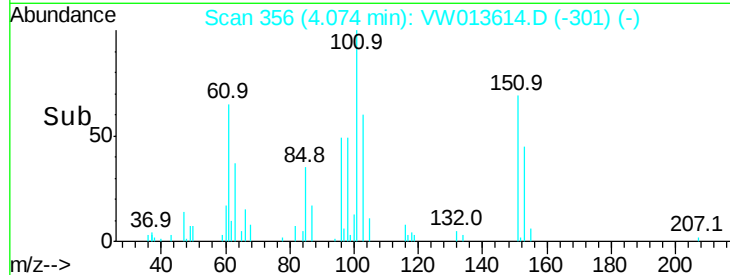
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



Time-->



#12

1,1-Dichloroethene

Concen: 3.086 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

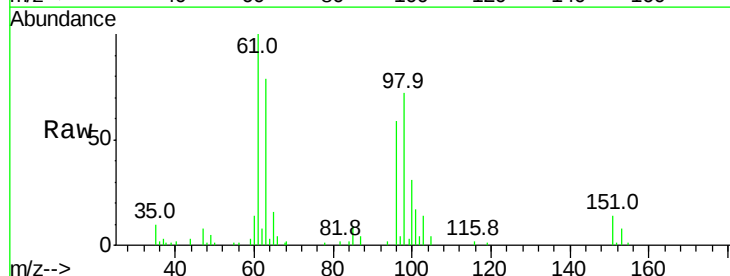
Tgt Ion: 96 Resp: 12815

Ion Ratio Lower Upper

96 100

61 168.9 112.7 209.3

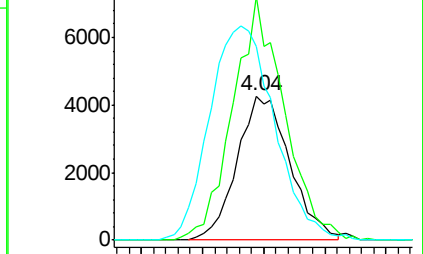
63 134.3 72.8 135.2



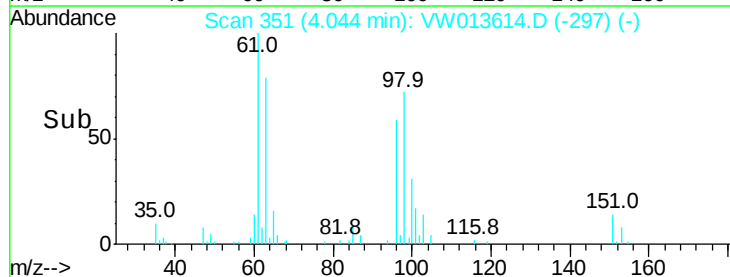
Abundance Ion 96.00 (95.70 to 96.70): VW

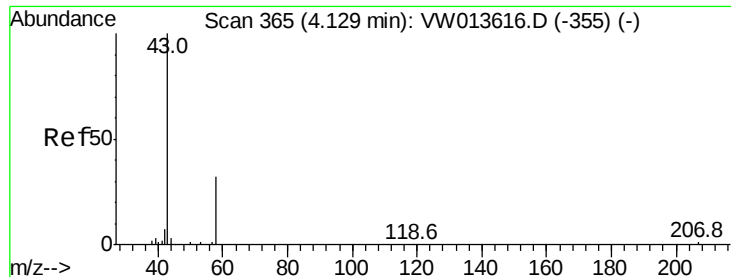
Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW



Time-->





#13

Acetone

Concen: 8.783 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.00 min

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ClientSampleId :

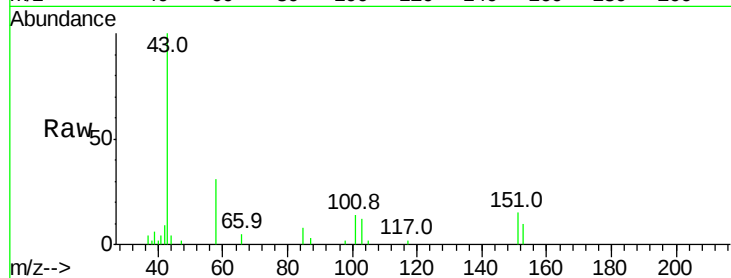
VSTD2.507

Tgt Ion: 43 Resp: 11511

Ion Ratio Lower Upper

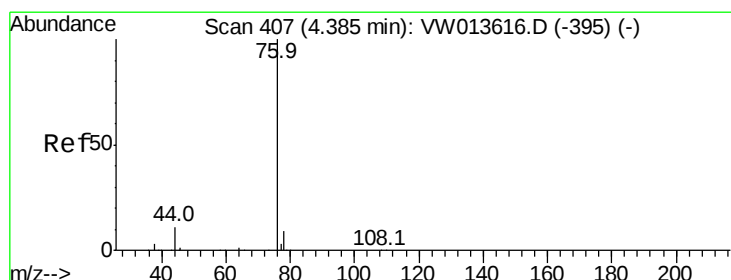
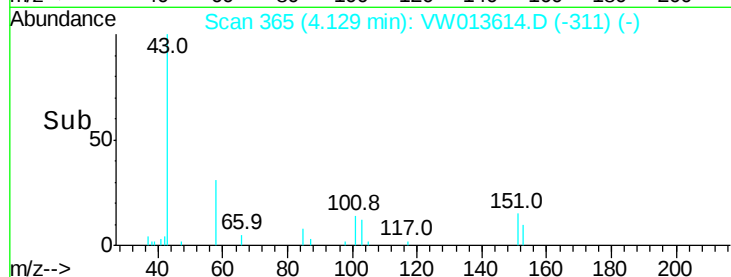
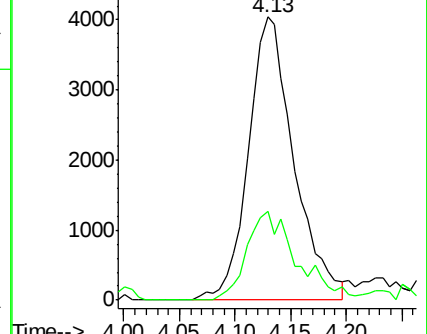
43 100

58 19.0 0.0 70.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 2.728 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW013614.D

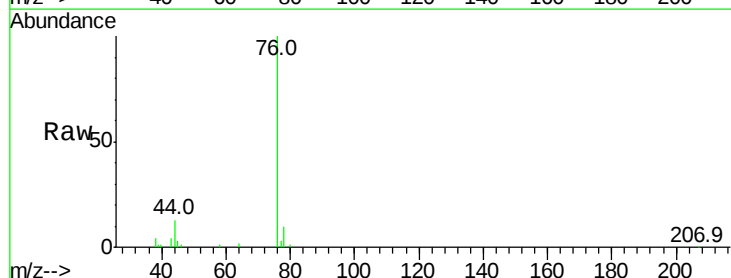
Acq: 18 Oct 2019 09:57

Tgt Ion: 76 Resp: 34566

Ion Ratio Lower Upper

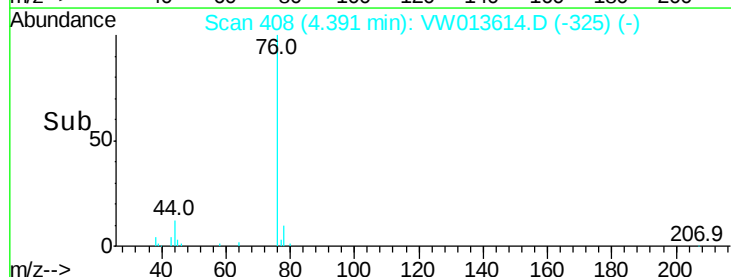
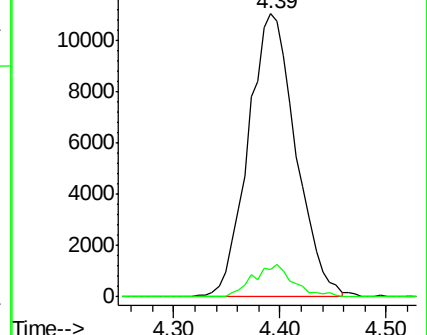
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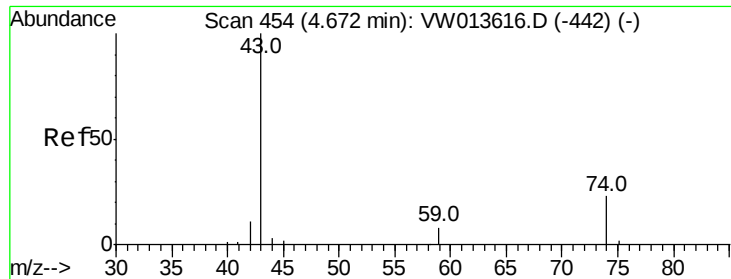
78 9.6 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

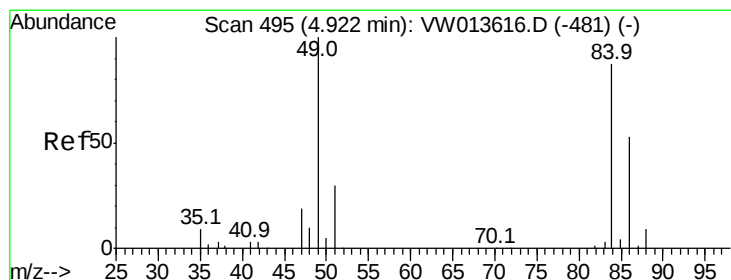
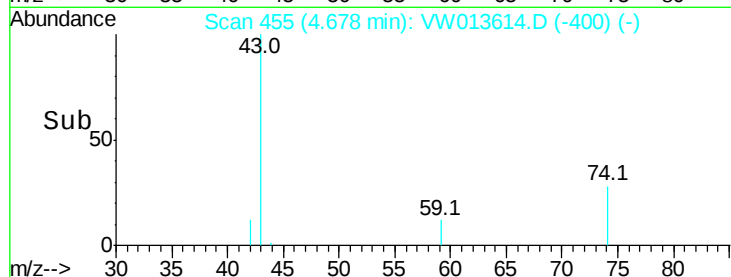
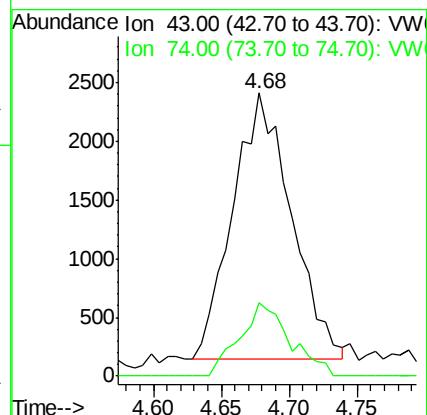
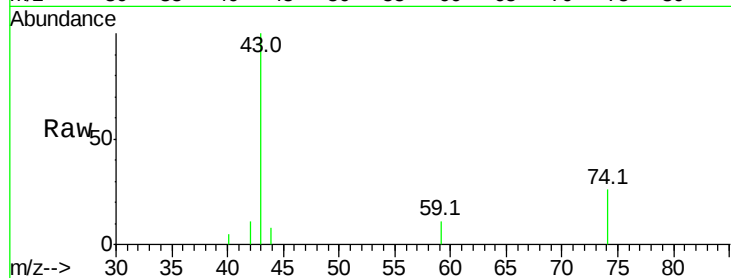




#15
Methyl Acetate
Concen: 3.331 ug/L
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW013614.D
Acq: 18 Oct 2019 09:57

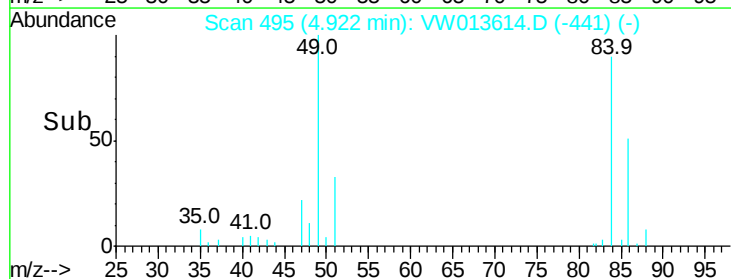
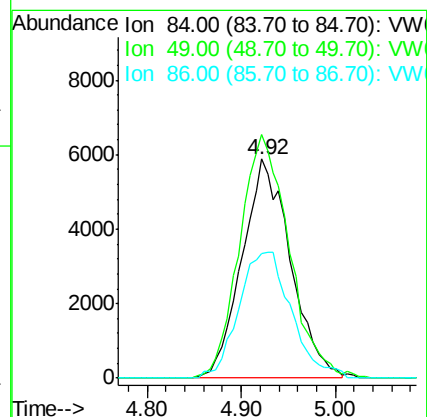
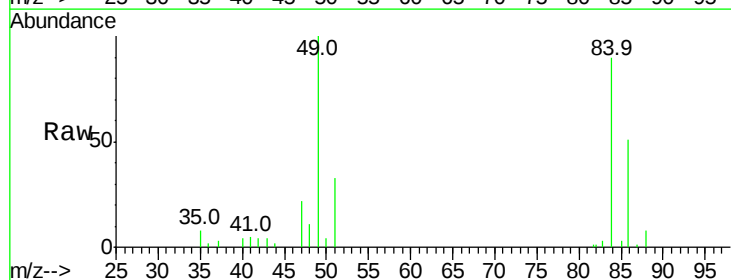
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.507

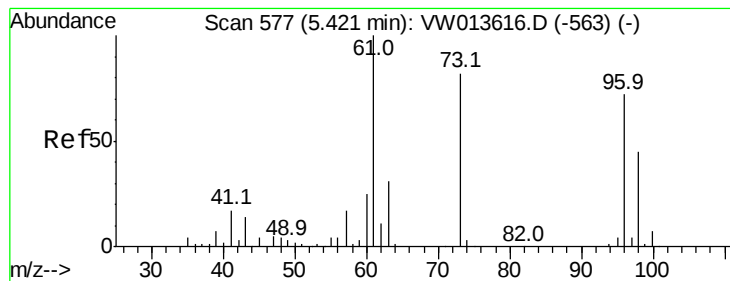
Tgt Ion: 43 Resp: 6809
Ion Ratio Lower Upper
43 100
74 23.9 19.2 28.8



#16
Methylene chloride
Concen: 4.219 ug/L
RT: 4.92 min Scan# 495
Delta R.T. 0.00 min
Lab File: VW013614.D
Acq: 18 Oct 2019 09:57

Tgt Ion: 84 Resp: 21139
Ion Ratio Lower Upper
84 100
49 111.3 80.2 148.9
86 56.8 42.7 79.3





#17

Methyl tert-butyl Ether

Concen: 2.871 ug/L

RT: 5.43 min Scan# 579

Delta R.T. 0.01 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.507

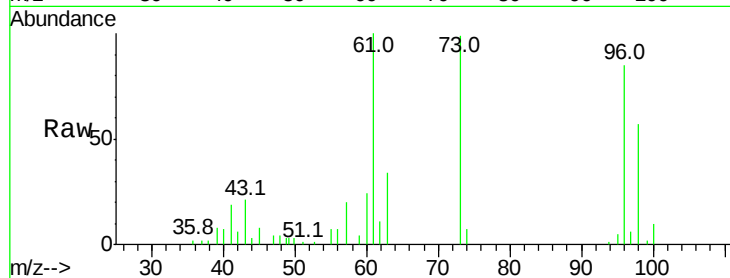
Tgt Ion: 73 Resp: 19159

Ion Ratio Lower Upper

73 100

43 21.8 15.4 23.2

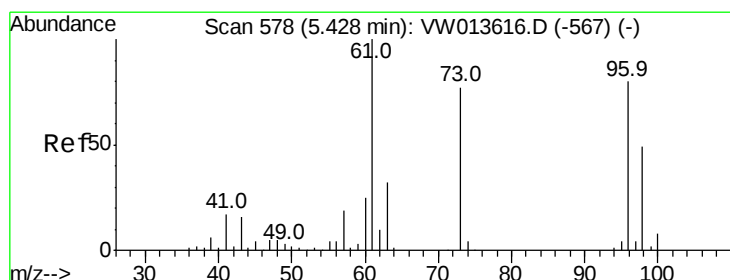
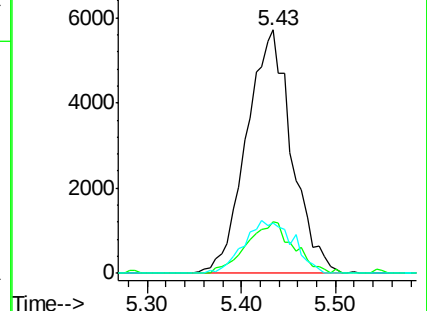
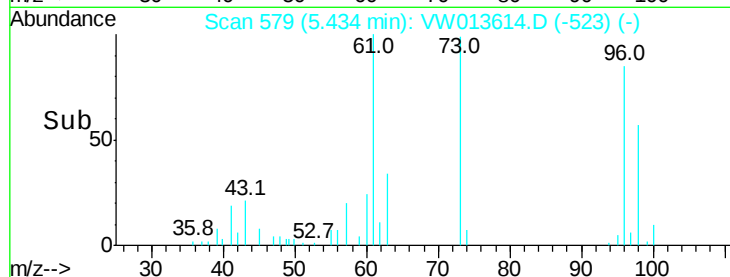
57 23.7 17.7 26.5



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: 3.457 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.01 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

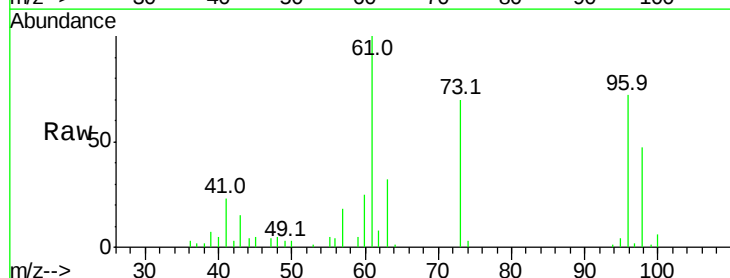
Tgt Ion: 96 Resp: 15319

Ion Ratio Lower Upper

96 100

61 139.5 88.4 164.2

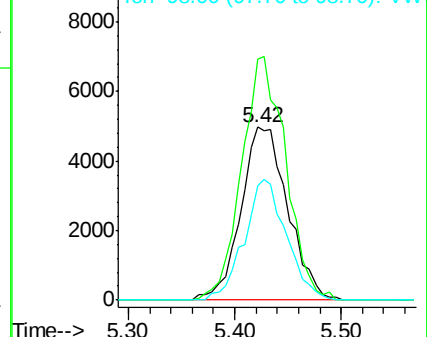
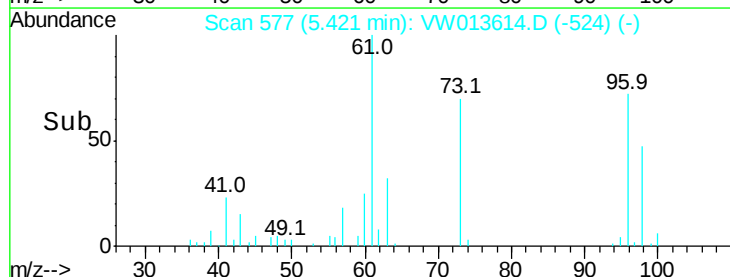
98 66.0 43.0 79.8

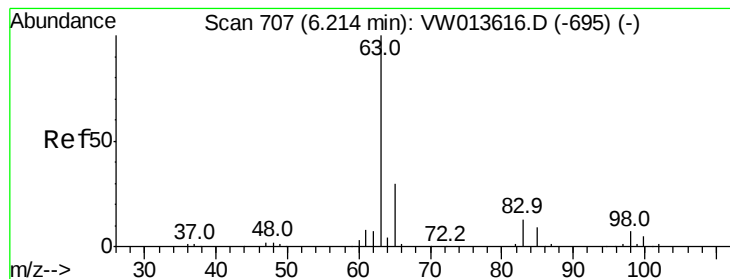


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW





#19

1,1-Dichloroethane

Concen: 3.443 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampled :

VSTD2.507

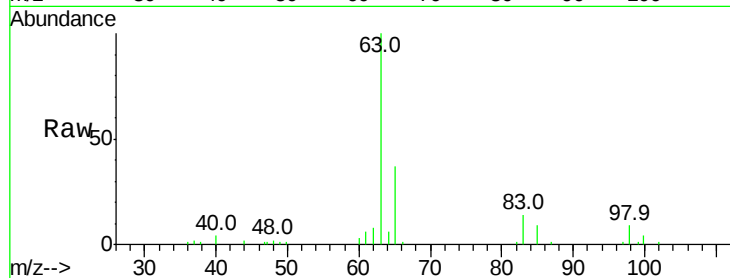
Tgt Ion: 63 Resp: 25614

Ion Ratio Lower Upper

63 100

65 36.8 20.9 38.7

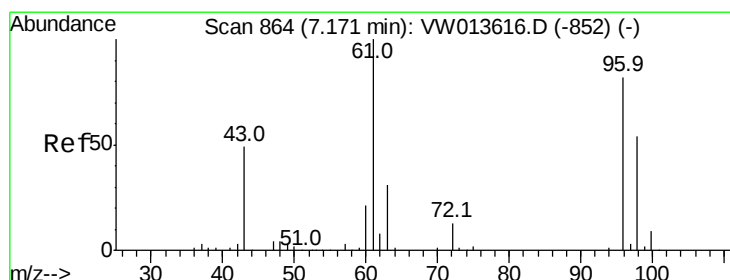
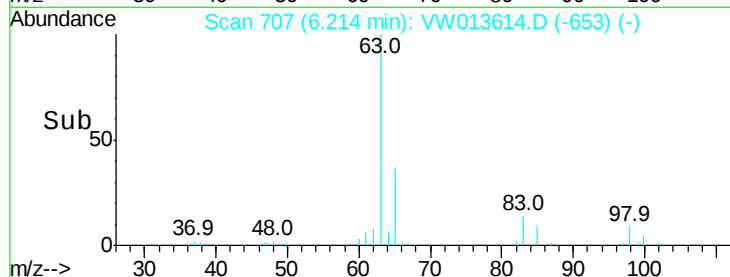
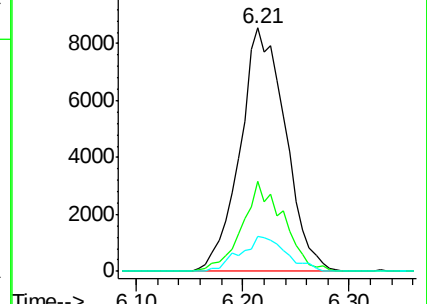
83 14.1 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 7.452 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW013614.D

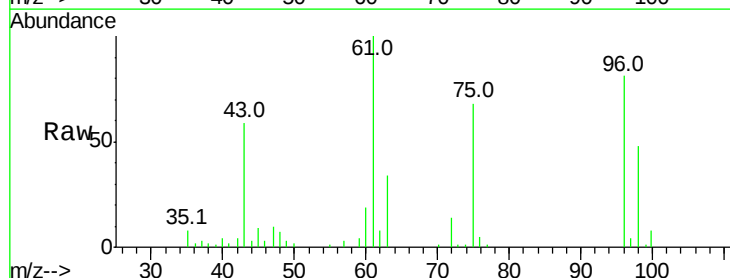
Acq: 18 Oct 2019 09:57

Tgt Ion: 43 Resp: 11948

Ion Ratio Lower Upper

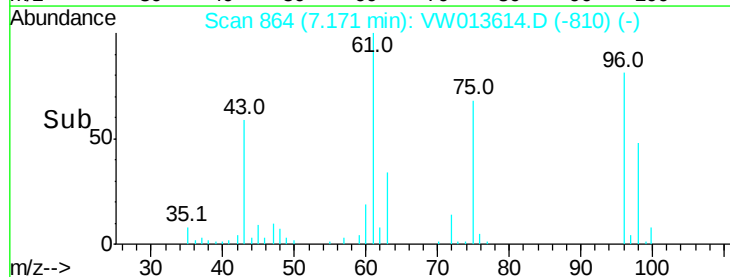
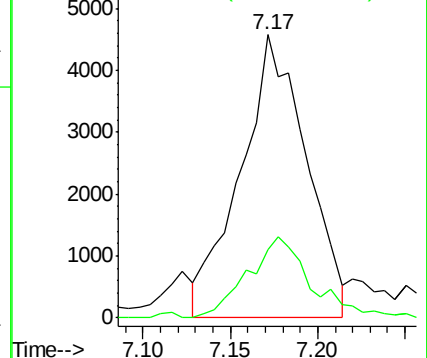
43 100

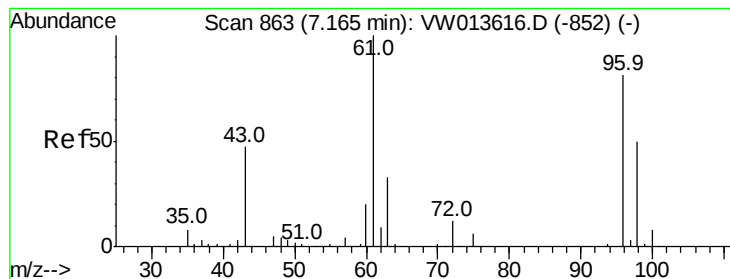
72 23.8 13.7 41.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



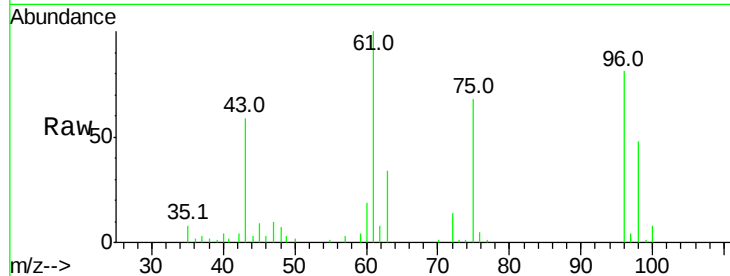


#22

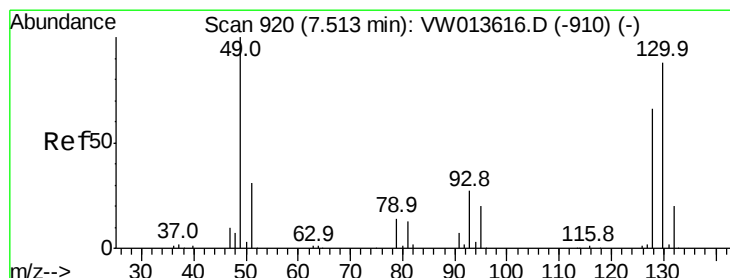
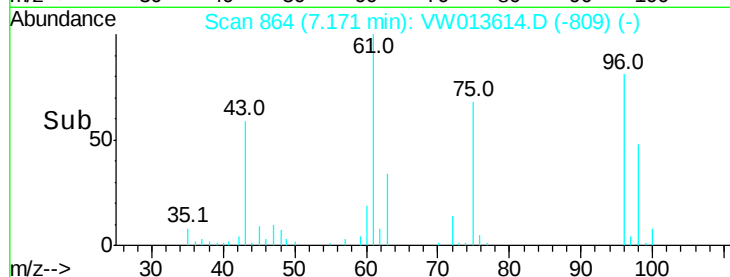
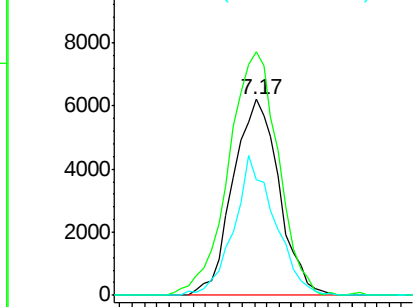
cis-1,2-Dichloroethene
Concen: 3.444 ug/L
RT: 7.17 min Scan# 864
Delta R.T. 0.01 min
Lab File: VW013614.D
Acq: 18 Oct 2019 09:57

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.507

Tgt Ion: 96 Resp: 16321
Ion Ratio Lower Upper
96 100
61 124.2 86.2 160.0
98 59.1 43.0 79.8



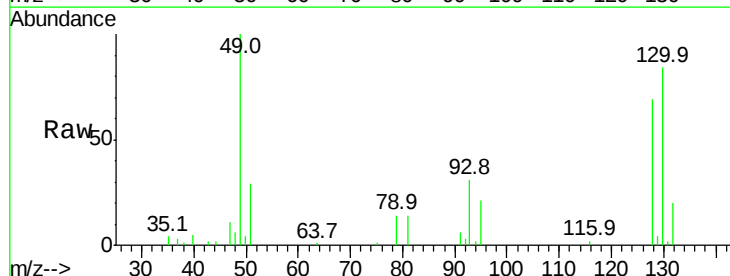
Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW



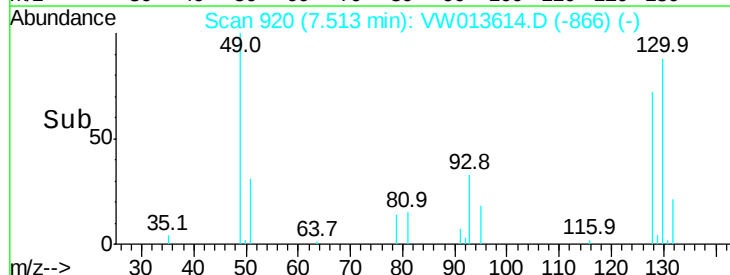
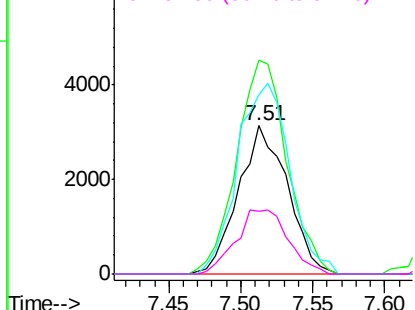
#23

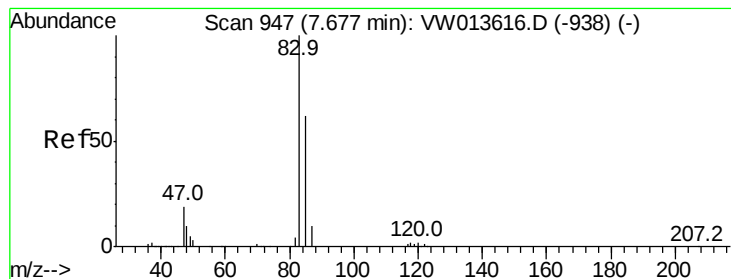
Bromochloromethane
Concen: 3.507 ug/L
RT: 7.51 min Scan# 920
Delta R.T. 0.00 min
Lab File: VW013614.D
Acq: 18 Oct 2019 09:57

Tgt Ion: 128 Resp: 7442
Ion Ratio Lower Upper
128 100
49 144.3 106.3 197.3
130 121.0 93.2 173.2
51 42.3 37.4 56.0



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: 3.643 ug/L

RT: 7.68 min Scan# 947

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampled :

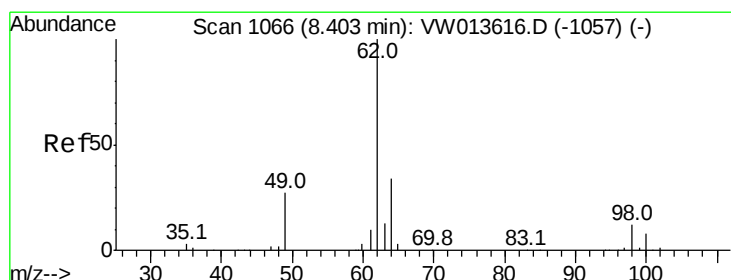
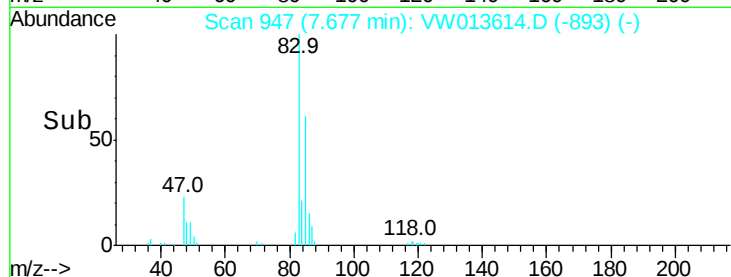
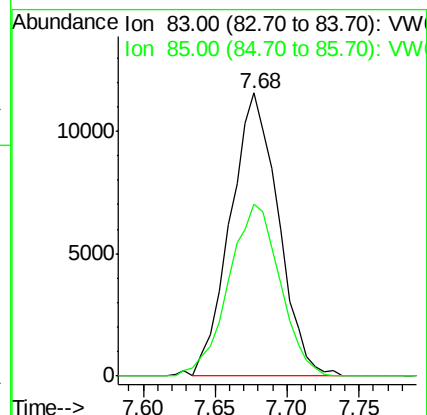
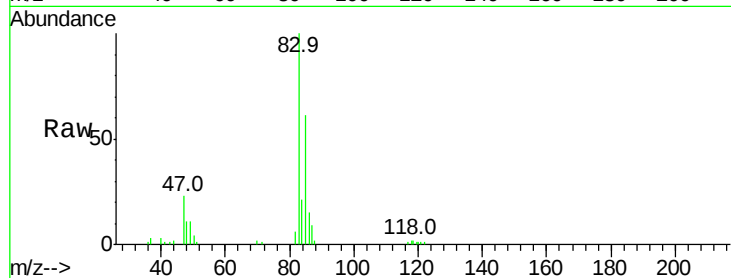
VSTD2.507

Tgt Ion: 83 Resp: 26733

Ion Ratio Lower Upper

83 100

85 65.0 46.1 85.7



#27

1,2-Dichloroethane

Concen: 3.622 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VW013614.D

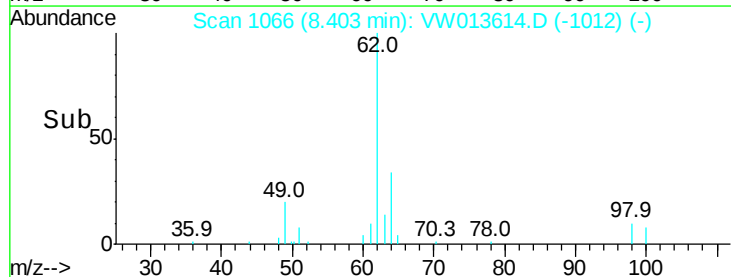
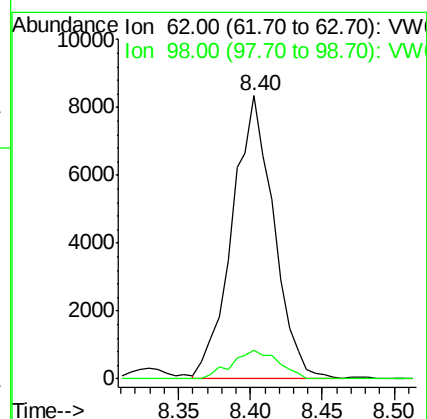
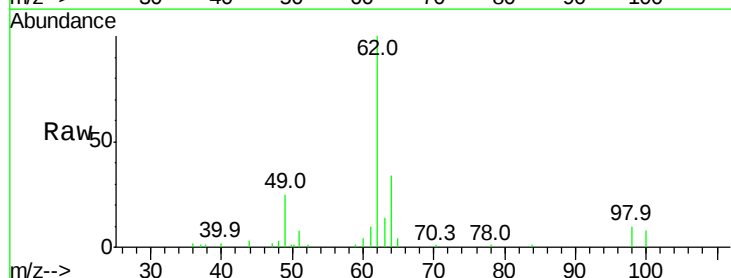
Acq: 18 Oct 2019 09:57

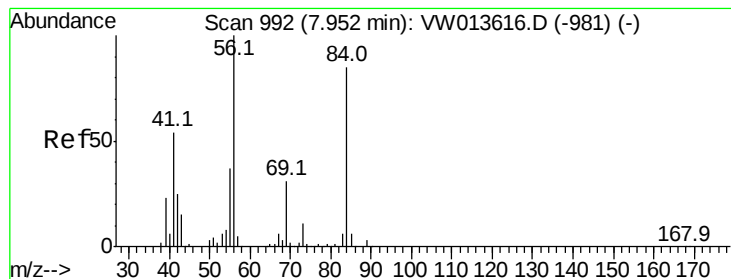
Tgt Ion: 62 Resp: 16813

Ion Ratio Lower Upper

62 100

98 10.2 9.6 14.4





#30

Cyclohexane

Concen: 2.816 ug/L

RT: 7.96 min Scan# 994

Delta R.T. 0.01 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.507

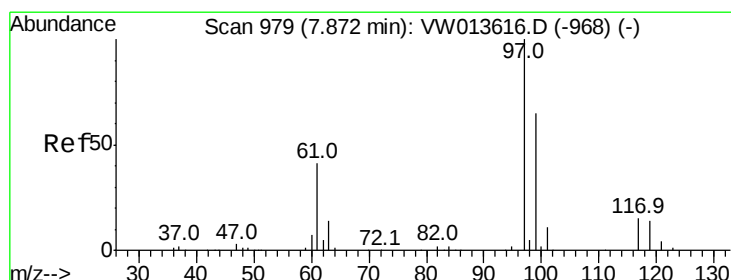
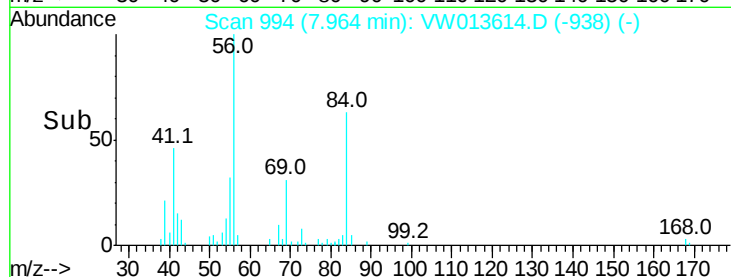
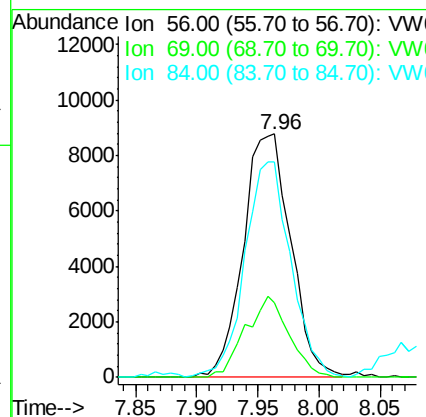
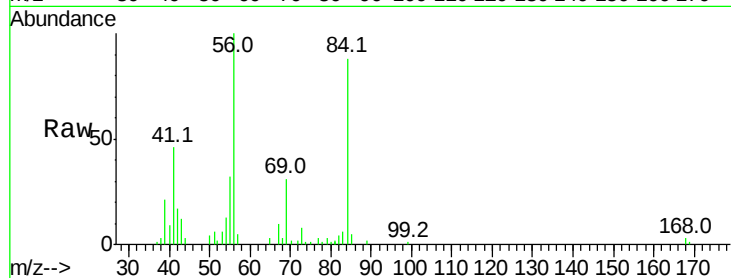
Tgt Ion: 56 Resp: 23713

Ion Ratio Lower Upper

56 100

69 30.7 24.6 37.0

84 85.8 71.1 106.7



#31

1,1,1-Trichloroethane

Concen: 3.128 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

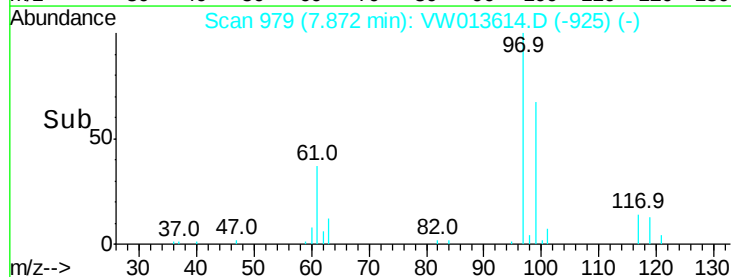
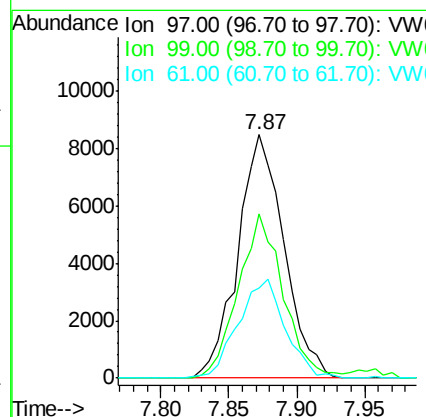
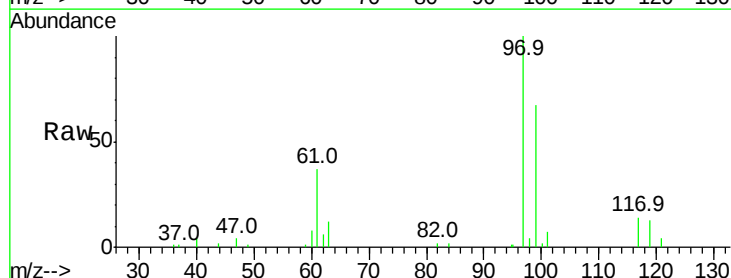
Tgt Ion: 97 Resp: 20176

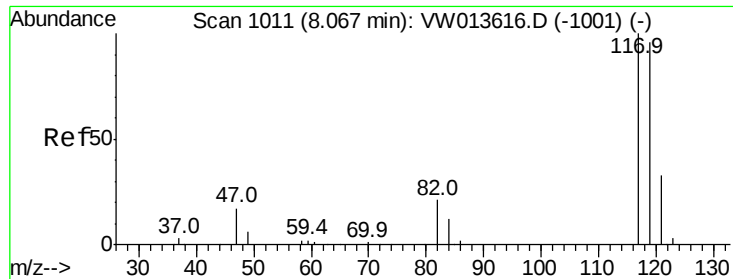
Ion Ratio Lower Upper

97 100

99 65.4 51.7 77.5

61 40.9 33.8 50.8





#32

Carbon tetrachloride

Concen: 3.069 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

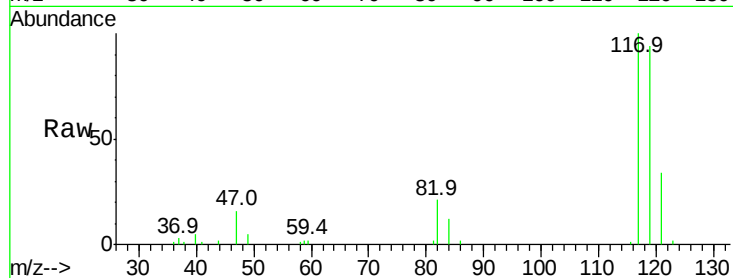
VSTD2.507

Tgt Ion:117 Resp: 18990

Ion Ratio Lower Upper

117 100

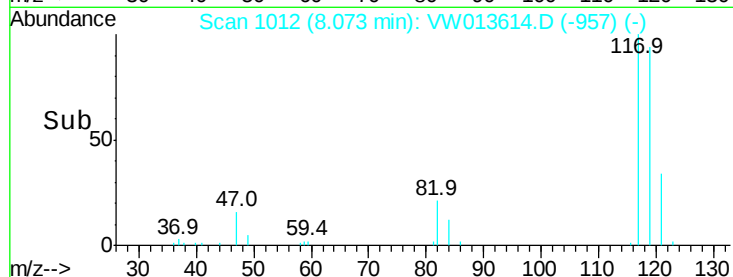
119 98.9 76.1 114.1



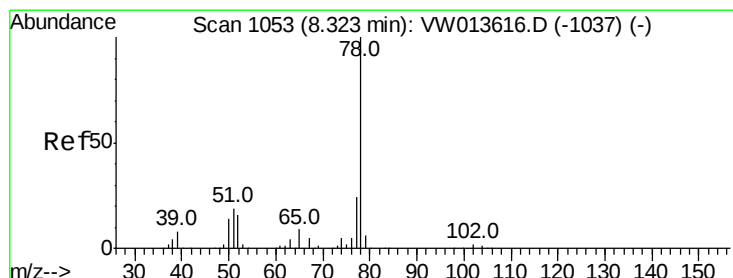
Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07



Time-->



#34

Benzene

Concen: 3.141 ug/L

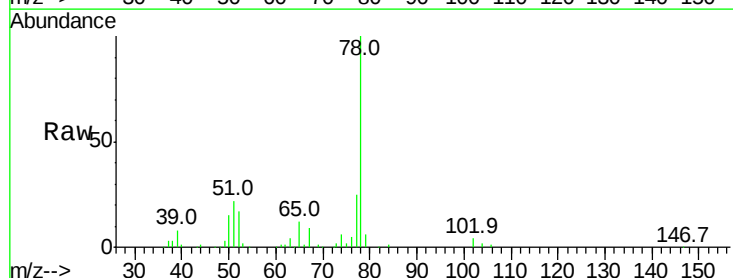
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW013614.D

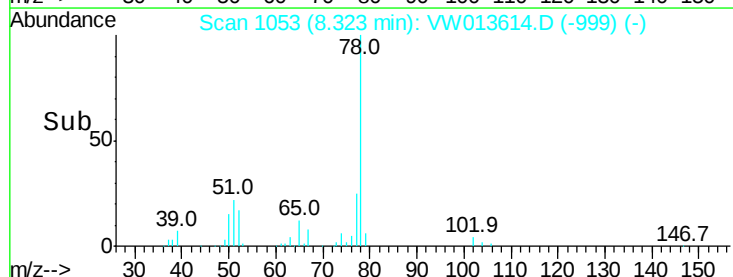
Acq: 18 Oct 2019 09:57

Tgt Ion: 78 Resp: 60780

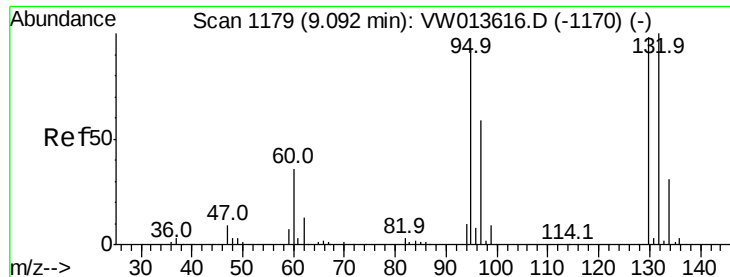


Abundance Ion 78.00 (77.70 to 78.70): VW

8.32



Time-->



#35

Trichloroethene

Concen: 2.966 ug/L

RT: 9.10 min Scan# 1180

Delta R.T. 0.01 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.507

Tgt Ion: 95 Resp: 14971

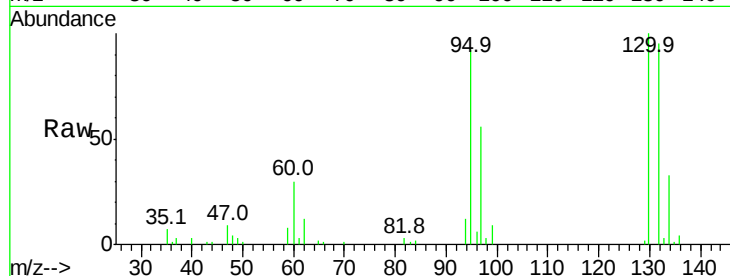
Ion Ratio Lower Upper

95 100

97 68.0 45.8 85.2

132 114.0 74.3 138.1

130 117.2 76.6 142.3

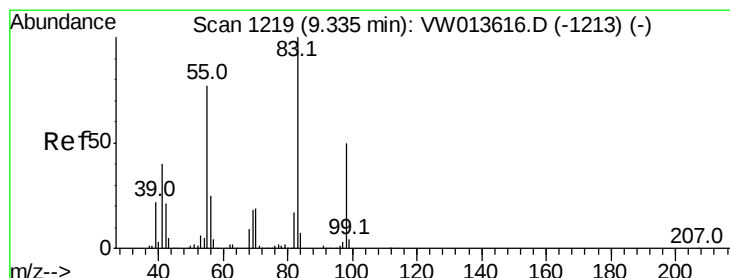
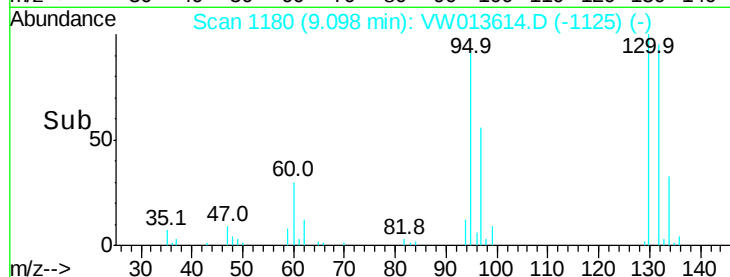
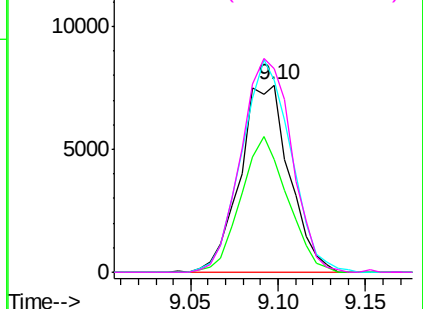


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 2.967 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

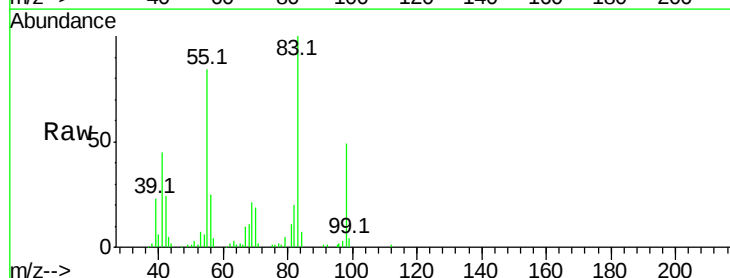
Tgt Ion: 83 Resp: 27229

Ion Ratio Lower Upper

83 100

55 80.8 60.2 90.4

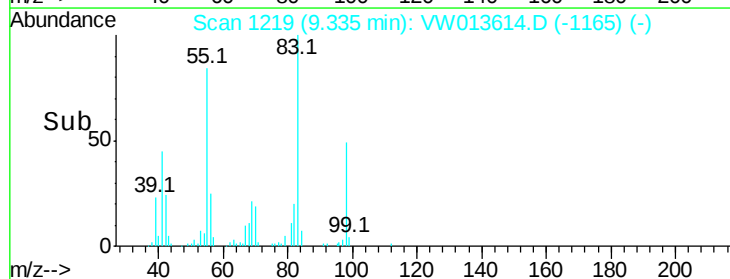
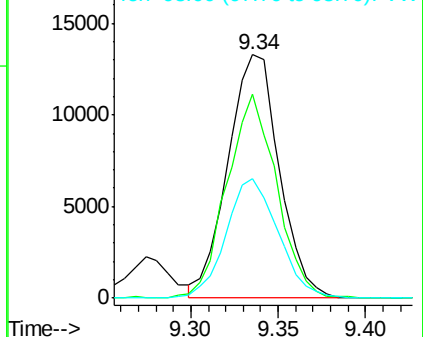
98 49.4 39.1 58.7

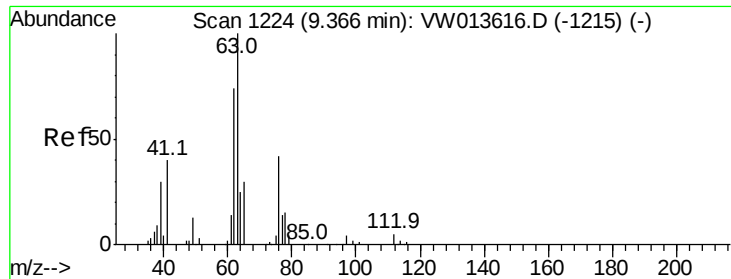


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

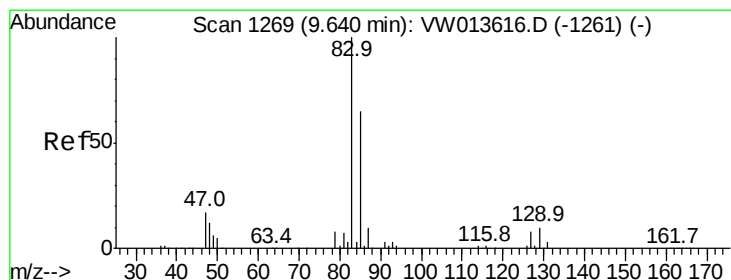
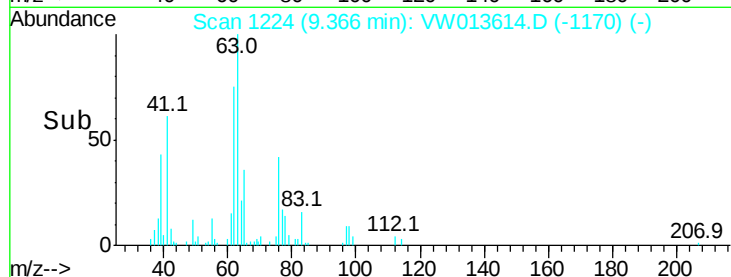
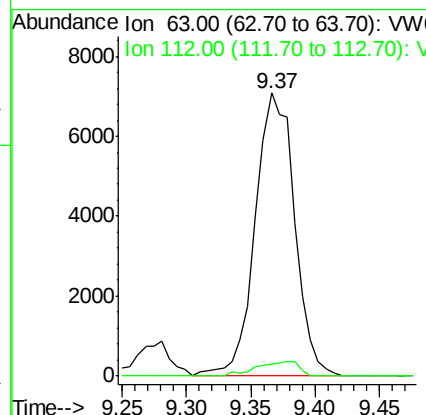
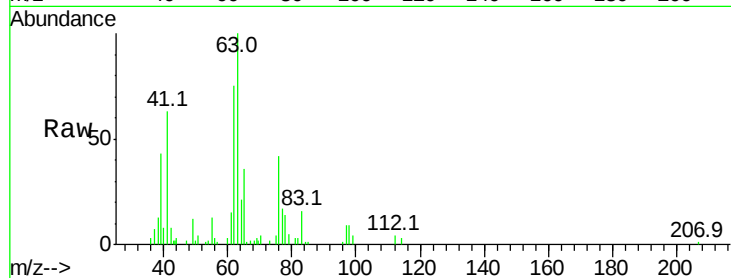




#40
 1,2-Dichloropropane
 Concen: 3.216 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW013614.D
 Acq: 18 Oct 2019 09:57

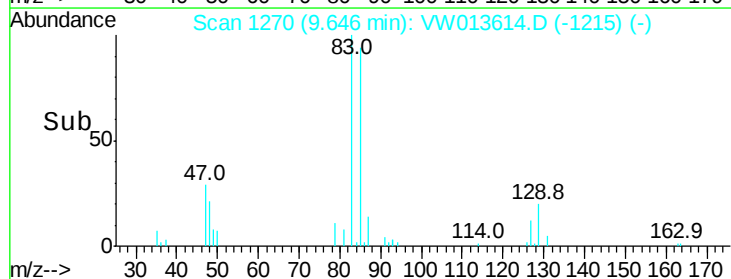
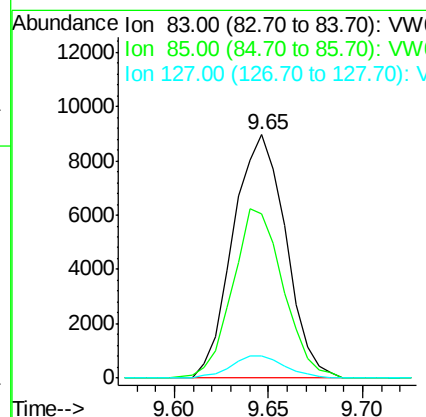
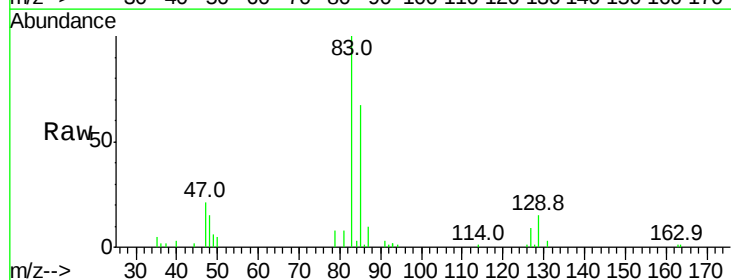
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.507

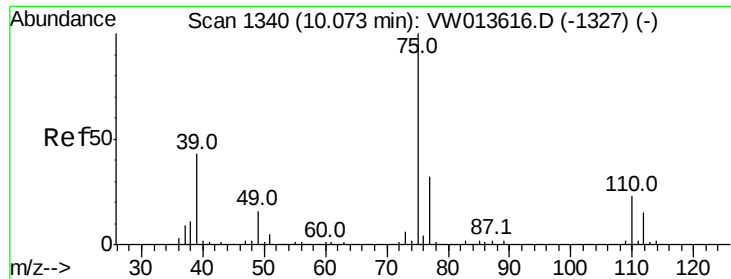
Tgt Ion: 63 Resp: 14991
 Ion Ratio Lower Upper
 63 100
 112 5.2 3.9 5.9



#41
 Bromodichloromethane
 Concen: 3.040 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.01 min
 Lab File: VW013614.D
 Acq: 18 Oct 2019 09:57

Tgt Ion: 83 Resp: 17404
 Ion Ratio Lower Upper
 83 100
 85 67.2 45.8 85.0
 127 9.7 6.6 10.0





#42

cis-1,3-Dichloropropene

Concen: 2.935 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampled :

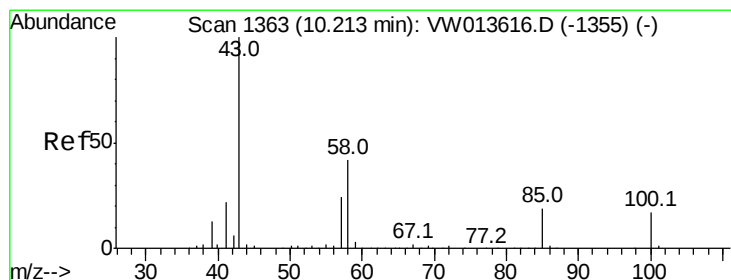
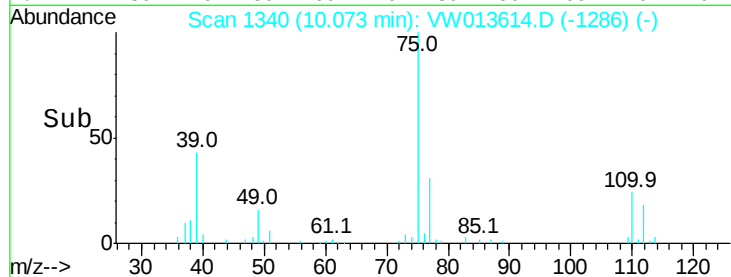
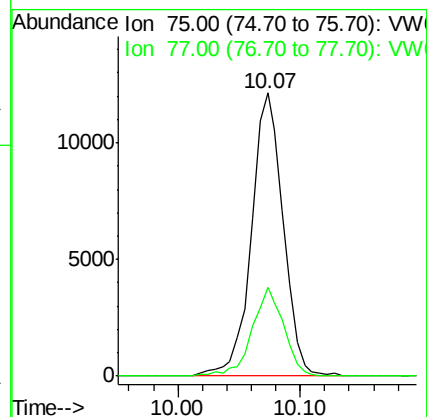
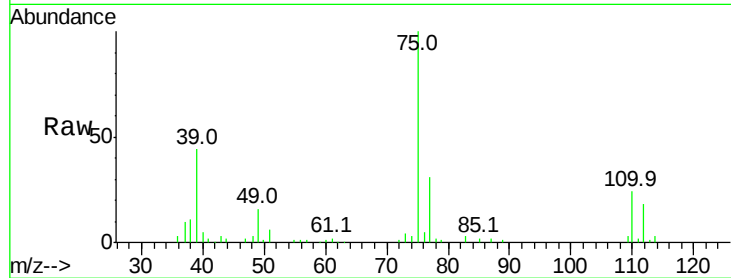
VSTD2.507

Tgt Ion: 75 Resp: 21948

Ion Ratio Lower Upper

75 100

77 31.5 22.5 41.9



#43

4-Methyl-2-pentanone

Concen: 6.634 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

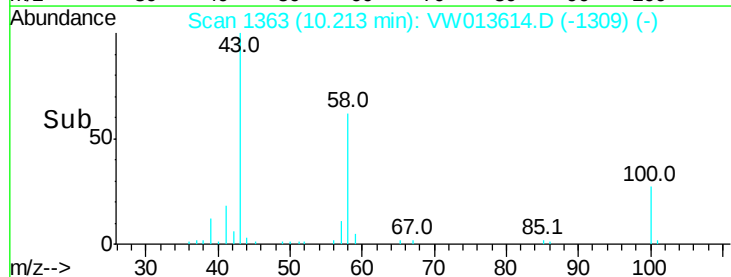
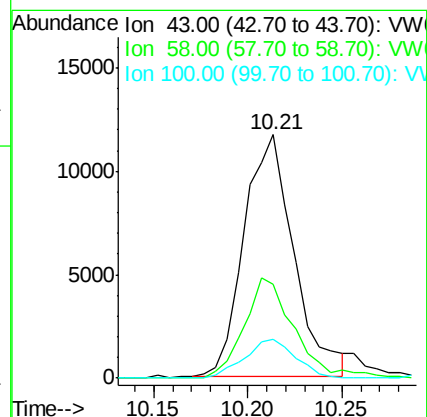
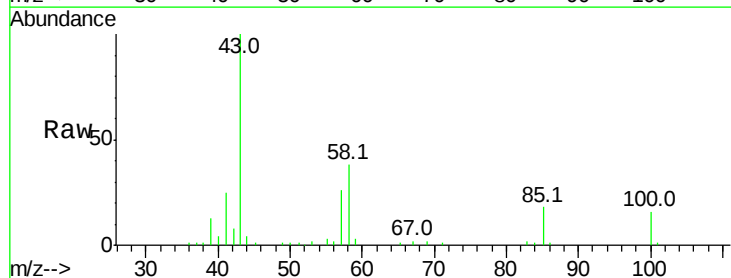
Tgt Ion: 43 Resp: 21576

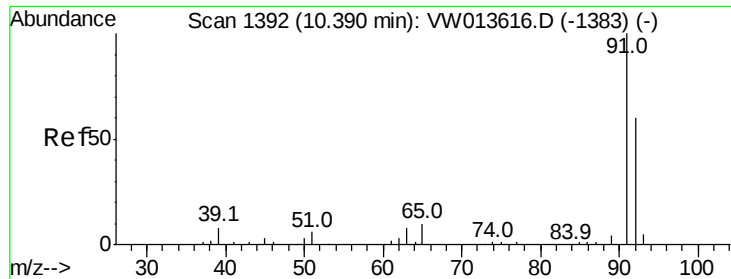
Ion Ratio Lower Upper

43 100

58 39.3 32.8 49.2

100 16.3 13.7 20.5





#44

Toluene

Concen: 3.092 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

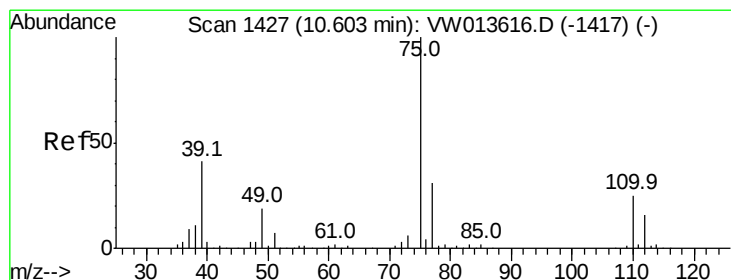
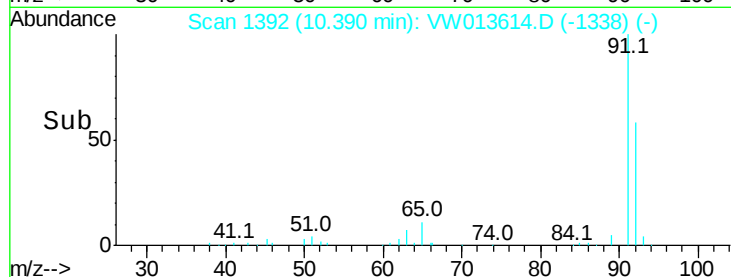
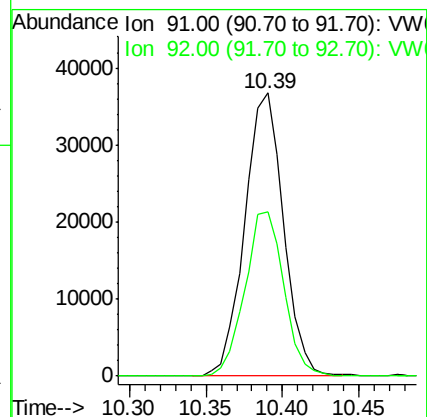
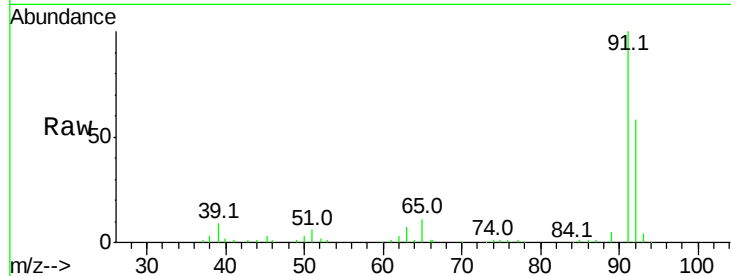
VSTD2.507

Tgt Ion: 91 Resp: 64827

Ion Ratio Lower Upper

91 100

92 58.1 42.0 78.0



#45

trans-1,3-Dichloropropene

Concen: 3.050 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW013614.D

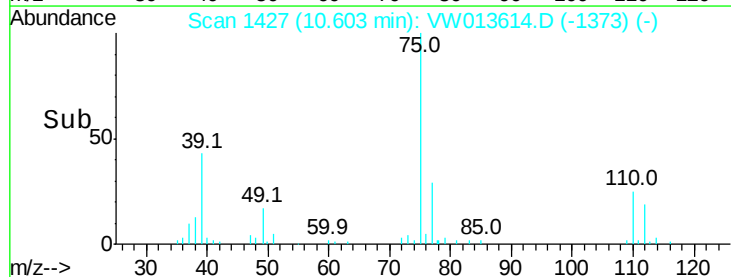
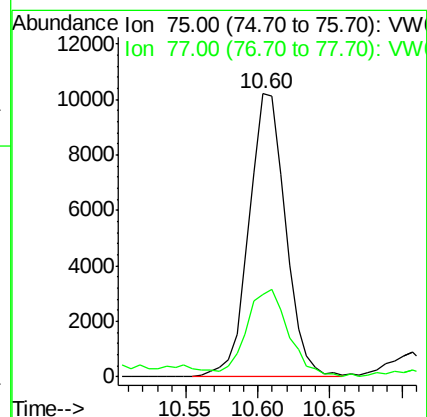
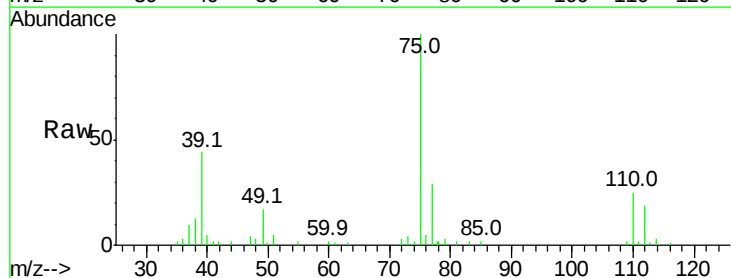
Acq: 18 Oct 2019 09:57

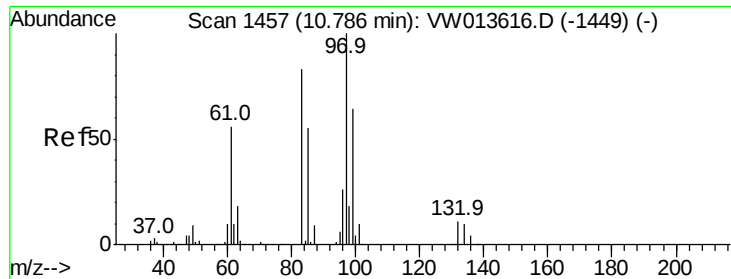
Tgt Ion: 75 Resp: 18007

Ion Ratio Lower Upper

75 100

77 28.9 22.0 41.0





#46

1,1,2-Trichloroethane

Concen: 3.403 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.507

Tgt Ion: 97 Resp: 12039

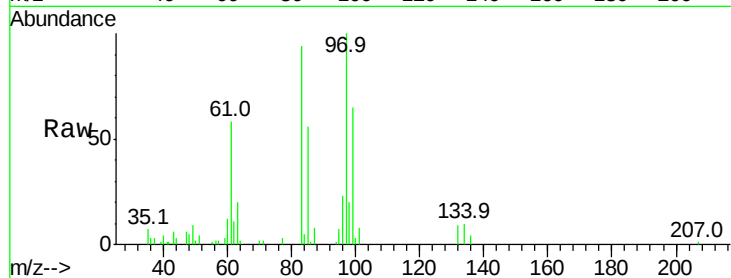
Ion Ratio Lower Upper

97 100

83 93.6 57.7 107.3

85 55.8 38.6 71.6

99 64.9 44.7 82.9

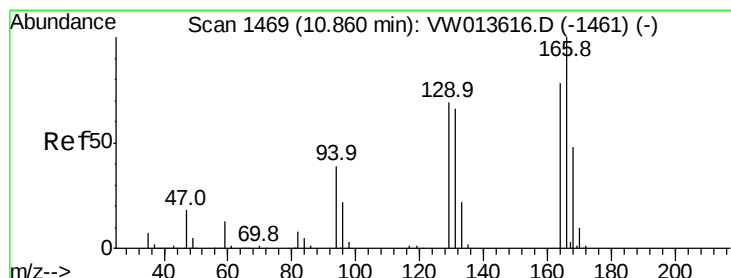
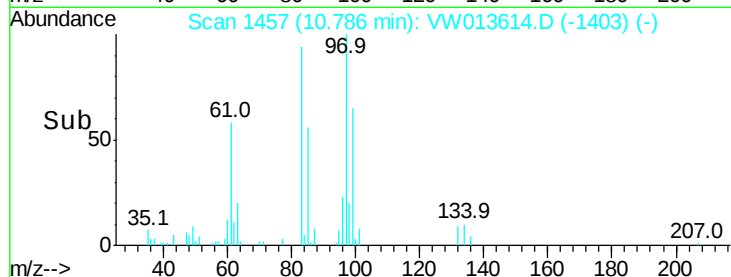
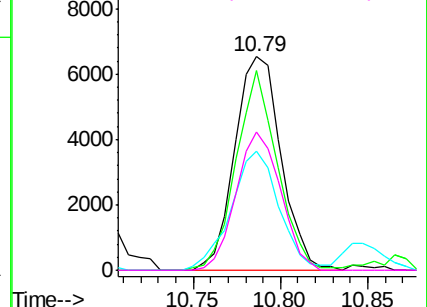


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 3.181 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Tgt Ion: 164 Resp: 14631

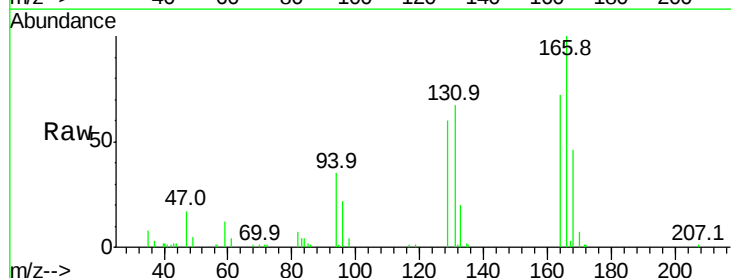
Ion Ratio Lower Upper

164 100

129 83.0 61.8 114.8

131 93.1 59.2 110.0

166 139.4 89.2 165.8

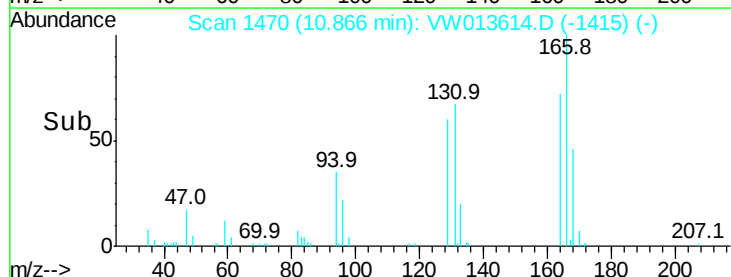
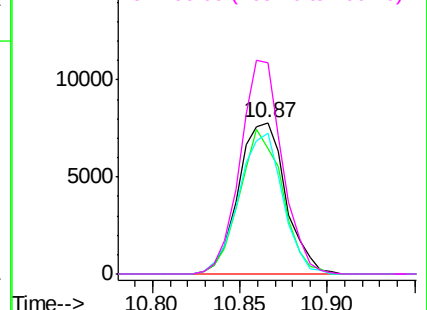


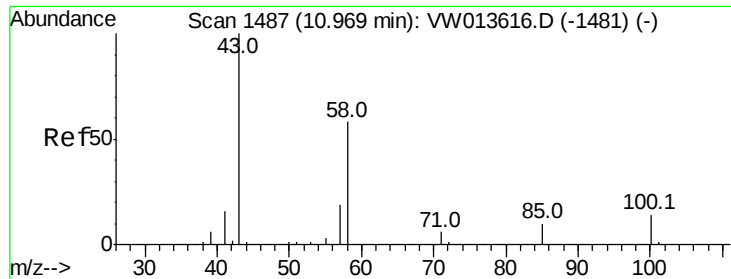
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 5.938 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.507

Tgt Ion: 43 Resp: 14036

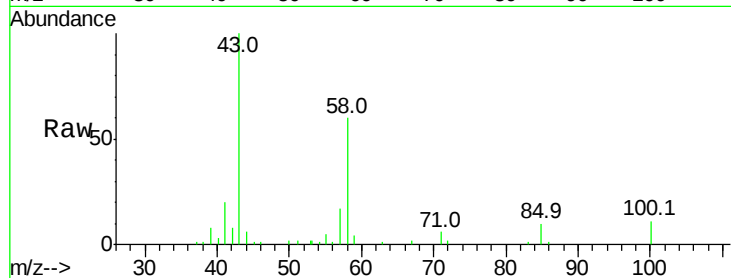
Ion Ratio Lower Upper

43 100

58 56.8 45.8 68.6

57 20.4 15.4 23.2

100 13.2 10.8 16.2

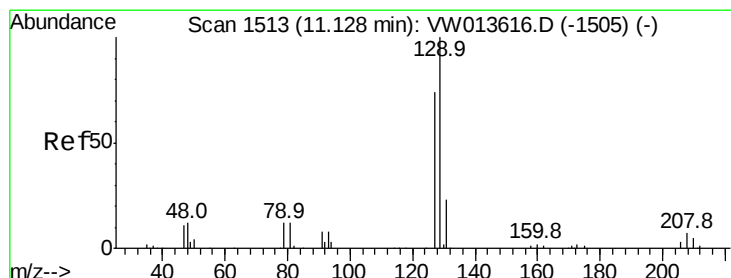
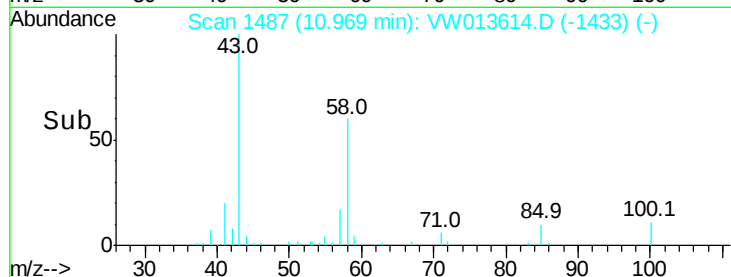
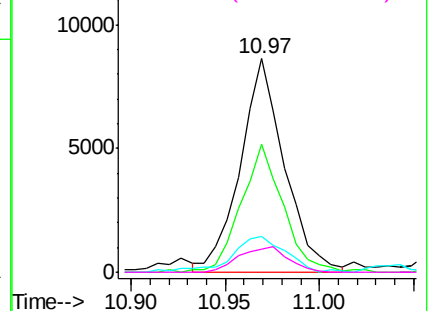


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#50

Dibromochloromethane

Concen: 3.180 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW013614.D

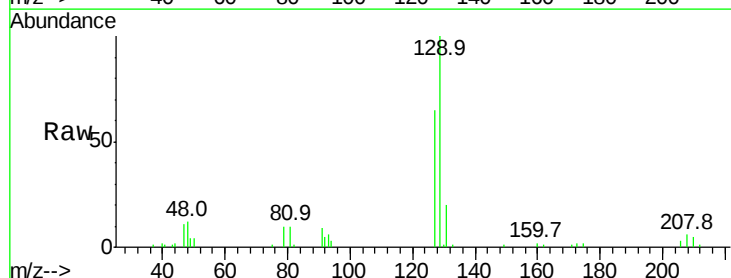
Acq: 18 Oct 2019 09:57

Tgt Ion: 129 Resp: 13249

Ion Ratio Lower Upper

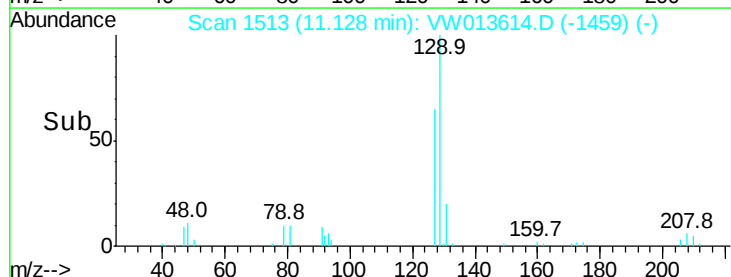
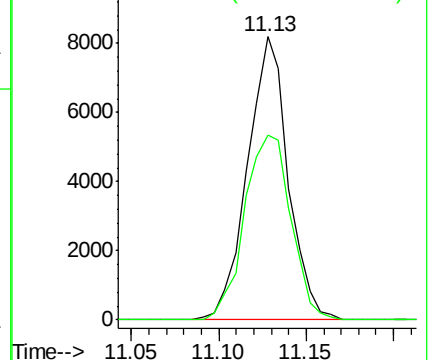
129 100

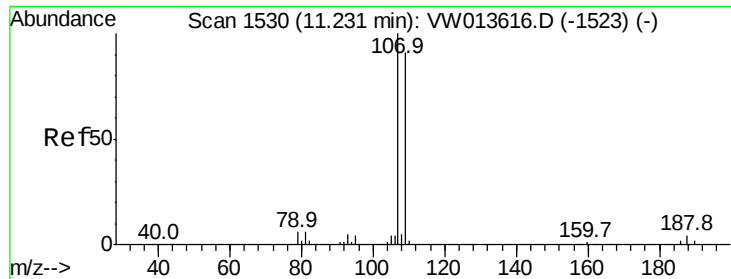
127 65.1 51.4 95.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

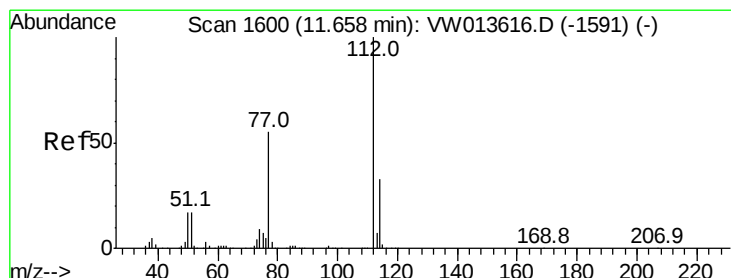
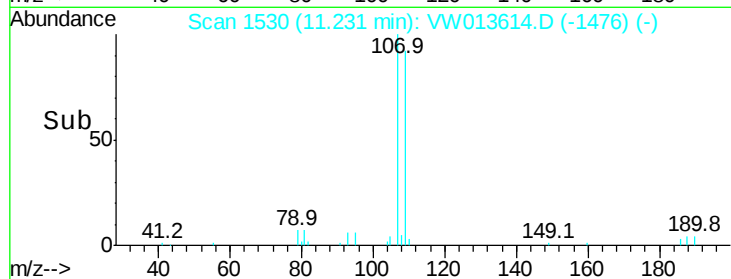
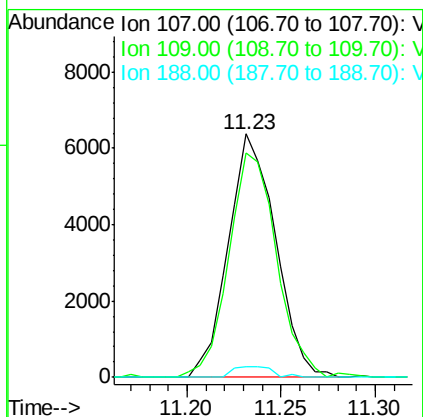
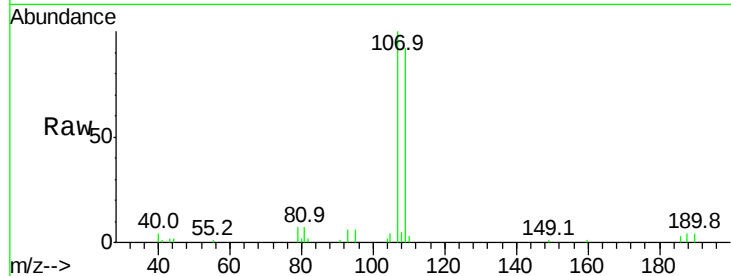




#51
 1,2-Dibromoethane
 Concen: 3.192 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. 0.00 min
 Lab File: VW013614.D
 Acq: 18 Oct 2019 09:57

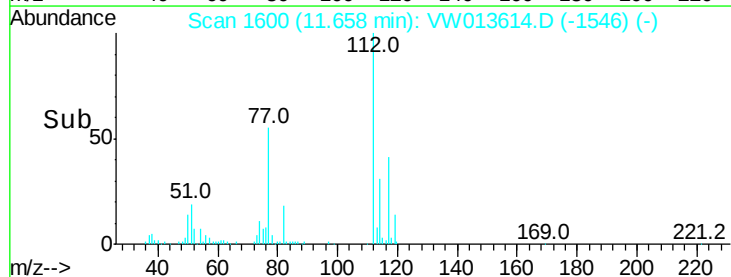
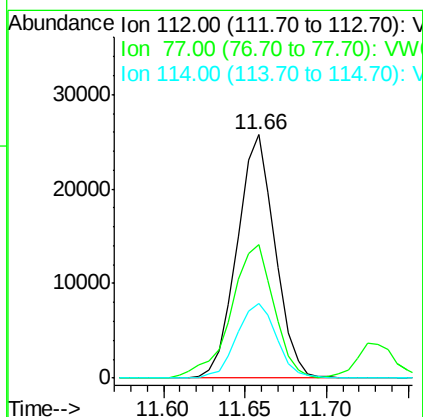
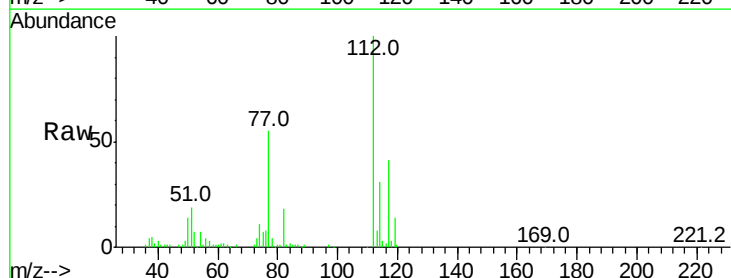
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.507

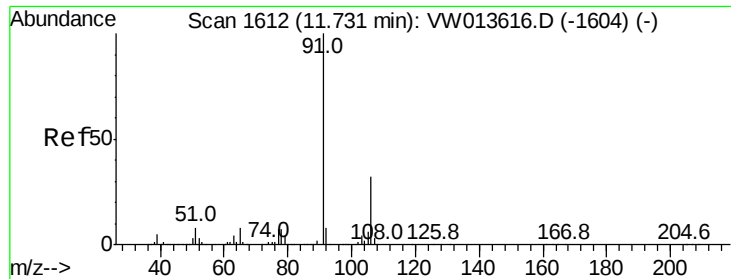
Tgt Ion:107 Resp: 11093
 Ion Ratio Lower Upper
 107 100
 109 92.4 64.0 118.8
 188 4.3 3.4 5.2



#52
 Chlorobenzene
 Concen: 3.138 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VW013614.D
 Acq: 18 Oct 2019 09:57

Tgt Ion:112 Resp: 41761
 Ion Ratio Lower Upper
 112 100
 77 54.8 44.1 66.1
 114 30.5 23.4 43.4





#53

Ethylbenzene

Concen: 3.030 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

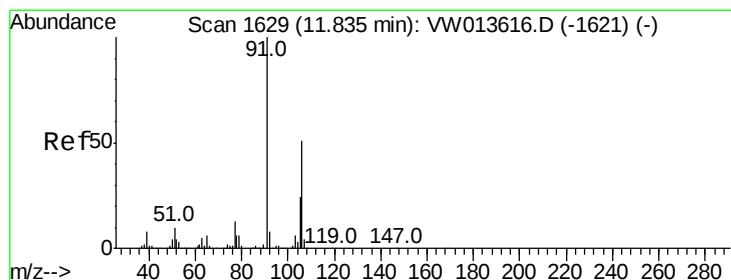
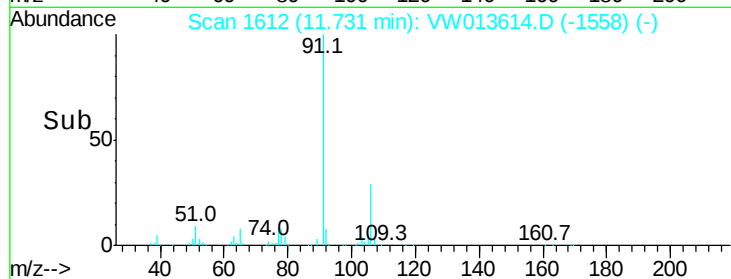
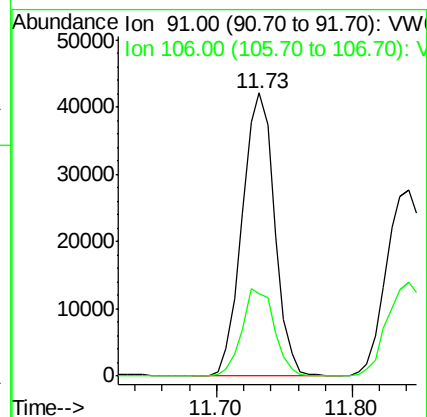
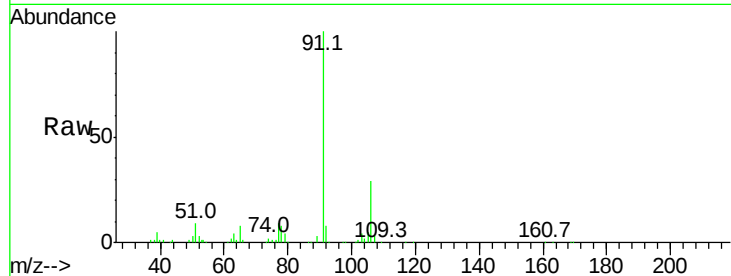
VSTD2.507

Tgt Ion: 91 Resp: 70323

Ion Ratio Lower Upper

91 100

106 29.0 22.3 41.3



#54

m,p-Xylene

Concen: 2.979 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VW013614.D

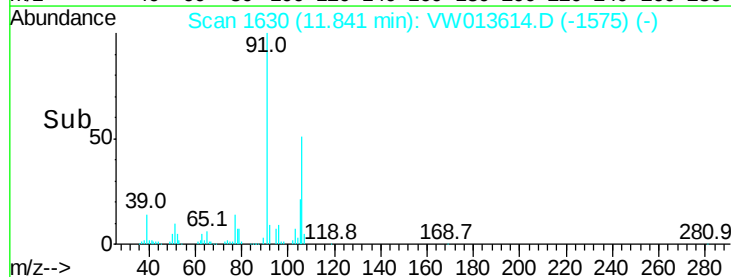
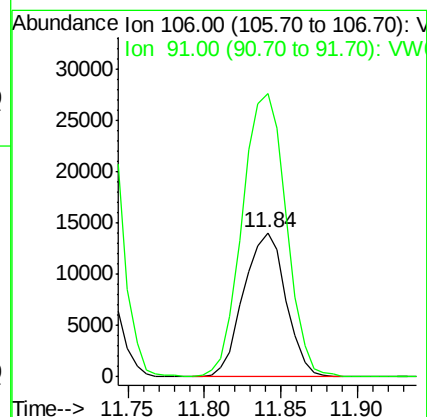
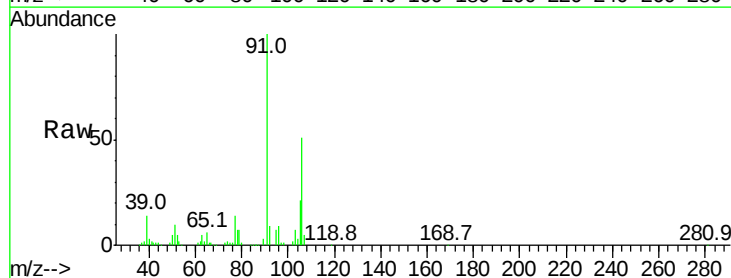
Acq: 18 Oct 2019 09:57

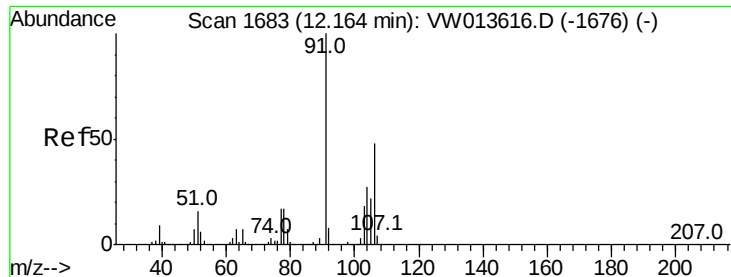
Tgt Ion: 106 Resp: 26974

Ion Ratio Lower Upper

106 100

91 196.5 137.7 255.7

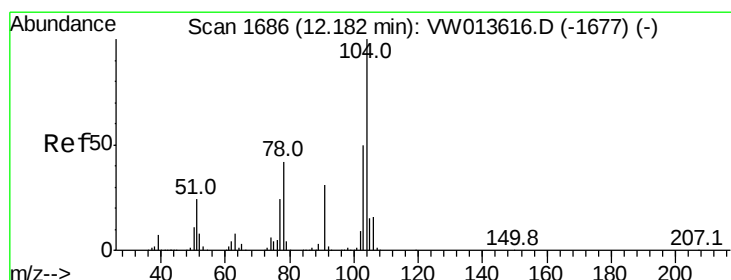
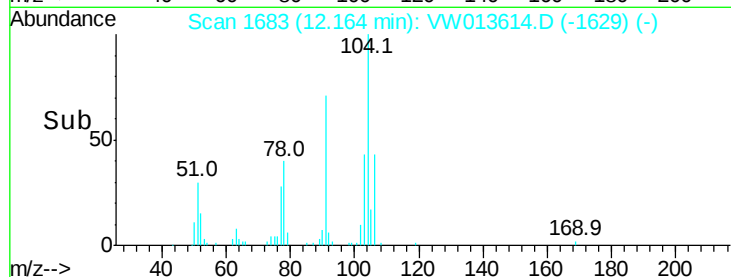
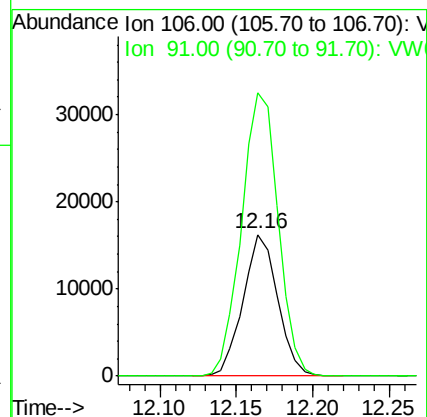
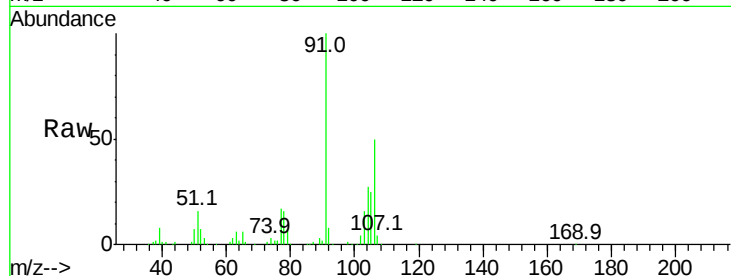




#55
o-xylene
Concen: 3.041 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW013614.D
Acq: 18 Oct 2019 09:57

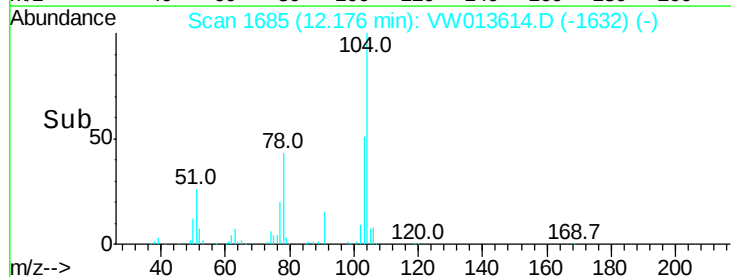
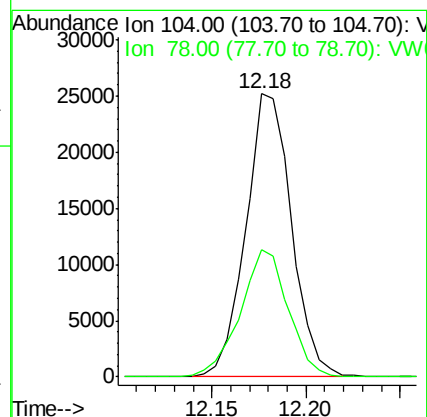
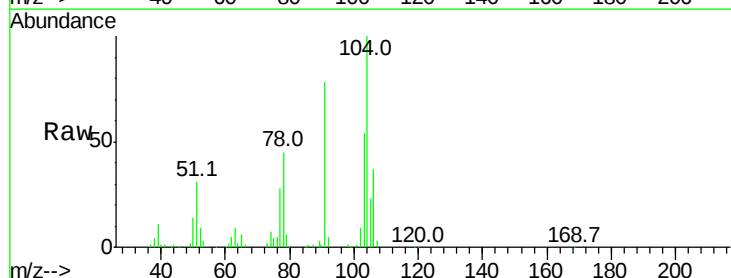
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.507

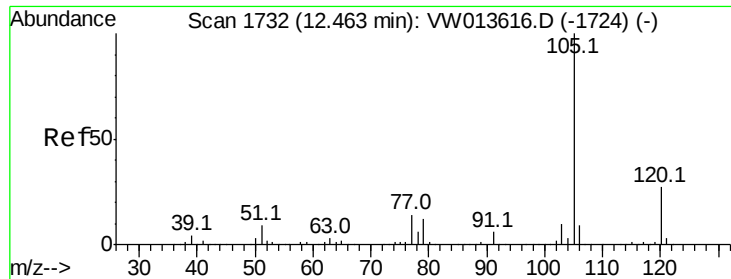
Tgt Ion:106 Resp: 25701
Ion Ratio Lower Upper
106 100
91 199.8 144.8 269.0



#56
Styrene
Concen: 2.938 ug/L
RT: 12.18 min Scan# 1685
Delta R.T. -0.01 min
Lab File: VW013614.D
Acq: 18 Oct 2019 09:57

Tgt Ion:104 Resp: 42296
Ion Ratio Lower Upper
104 100
78 44.9 29.3 54.5





#57

Isopropylbenzene

Concen: 3.029 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.507

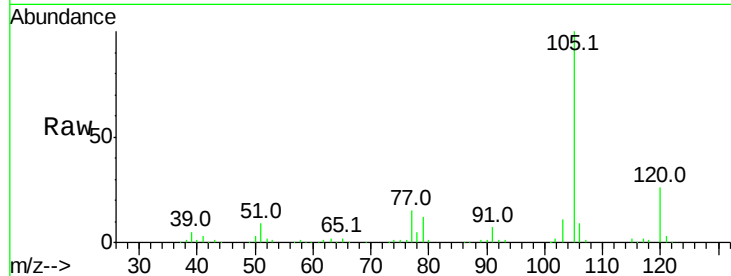
Tgt Ion:105 Resp: 69440

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.2

77 14.9 11.4 17.0

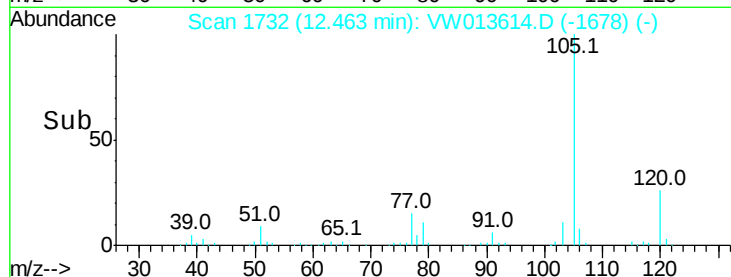


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

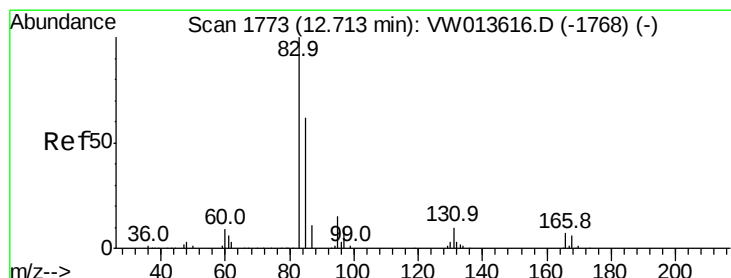
Ion 77.00 (76.70 to 77.70): V

Time-->



12.46

Time-->



#58

1,1,2,2-Tetrachloroethane

Concen: 3.306 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

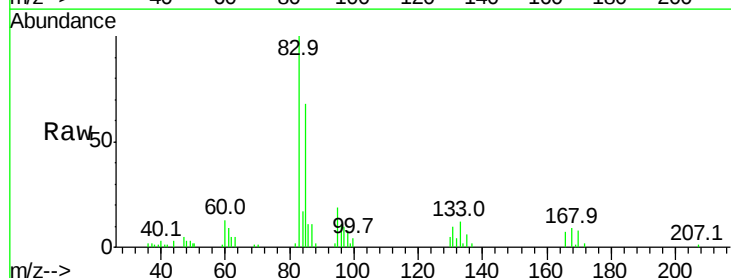
Tgt Ion: 83 Resp: 13819

Ion Ratio Lower Upper

83 100

85 68.1 44.9 83.3

131 10.1 8.6 13.0

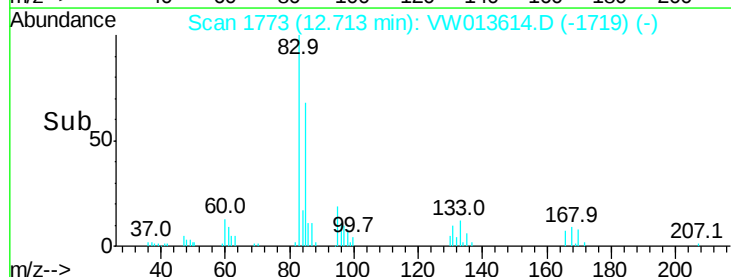


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

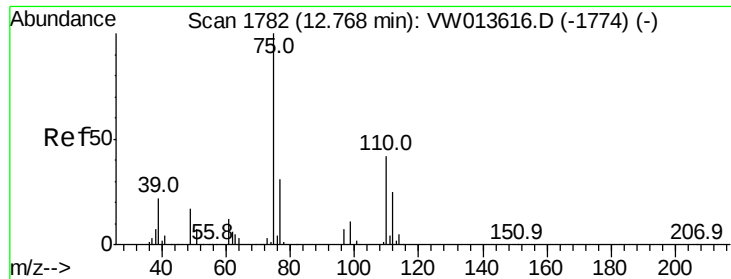
Ion 131.00 (130.70 to 131.70): V

Time-->



12.71

Time-->



#59

1,2,3-Trichloropropane

Concen: 3.354 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

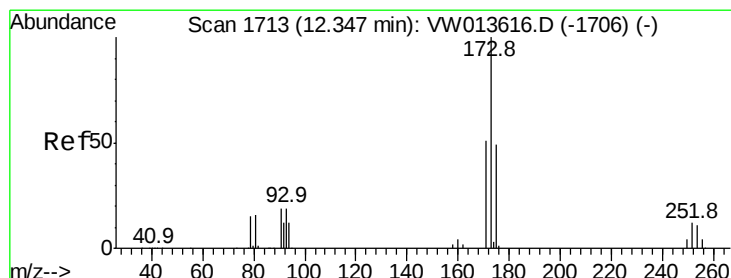
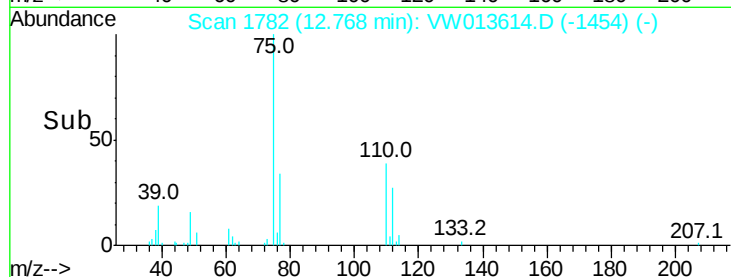
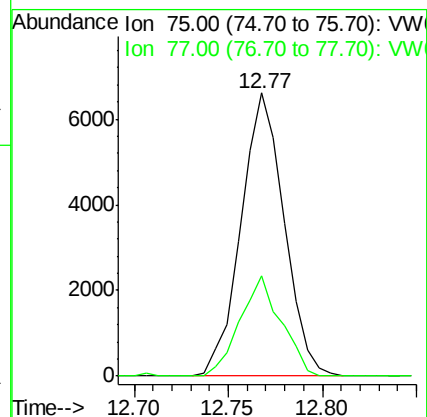
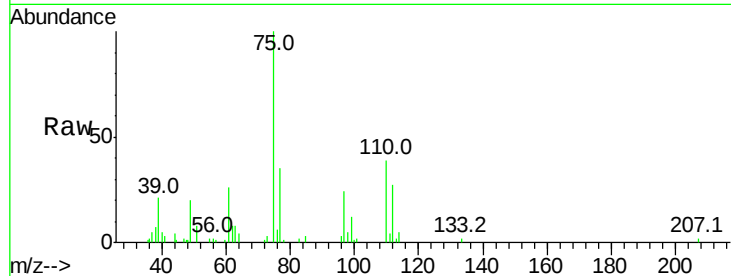
VSTD2.507

Tgt Ion: 75 Resp: 10469

Ion Ratio Lower Upper

75 100

77 33.8 26.4 39.6



#62

Bromoform

Concen: 2.619 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

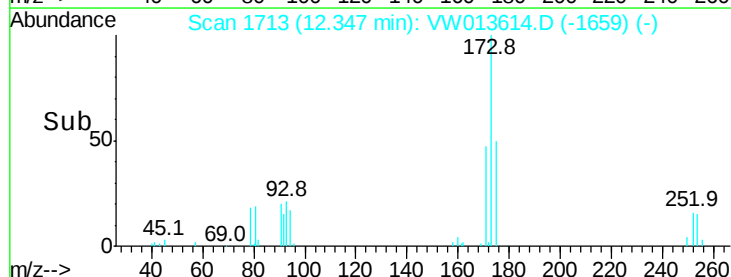
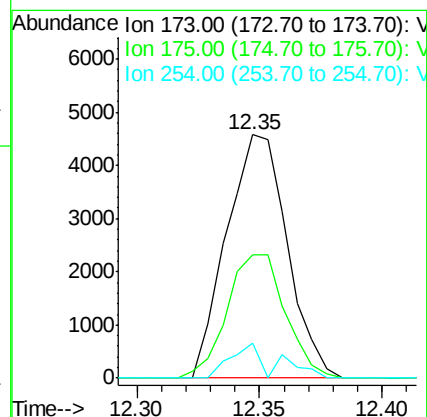
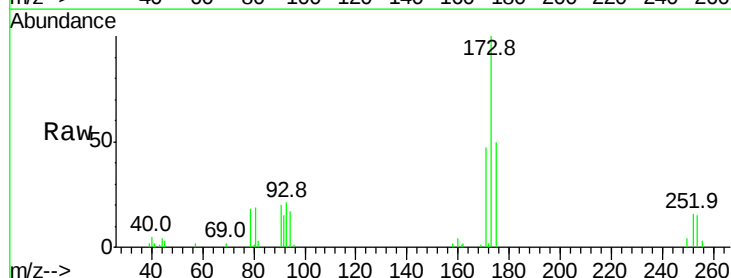
Tgt Ion: 173 Resp: 7887

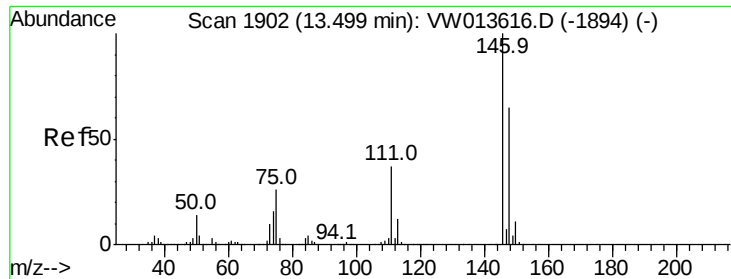
Ion Ratio Lower Upper

173 100

175 48.8 39.1 58.7

254 6.7 9.6 14.4#

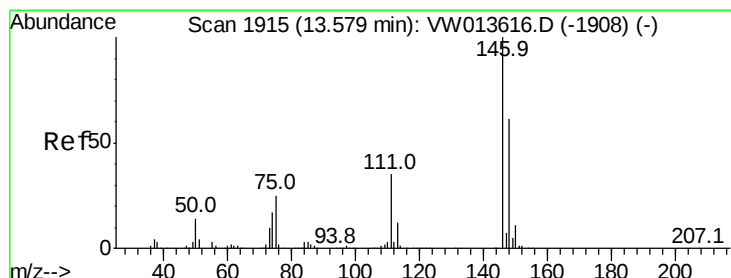
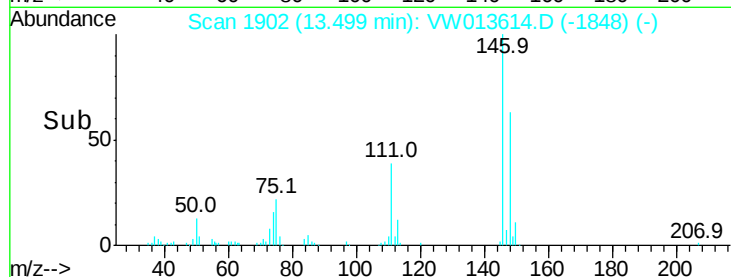
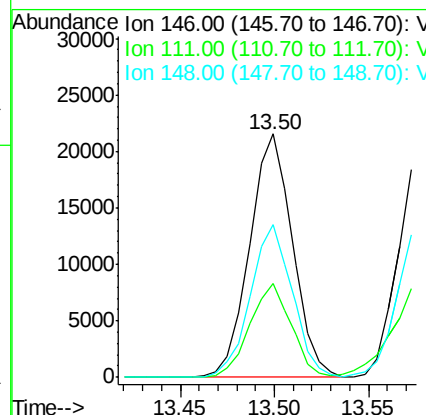
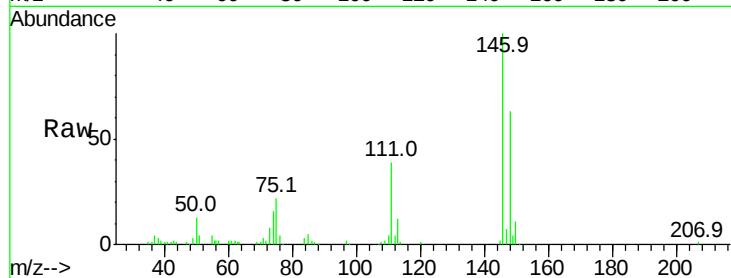




#63
 1,3-Dichlorobenzene
 Concen: 2.705 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW013614.D
 Acq: 18 Oct 2019 09:57

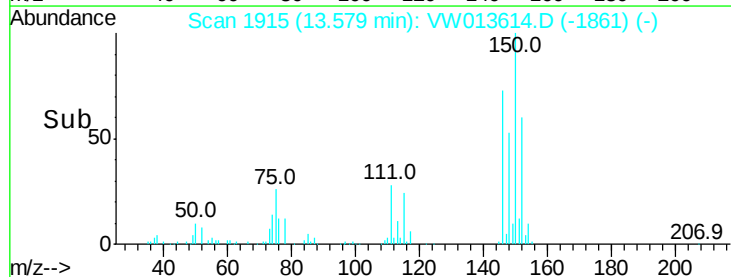
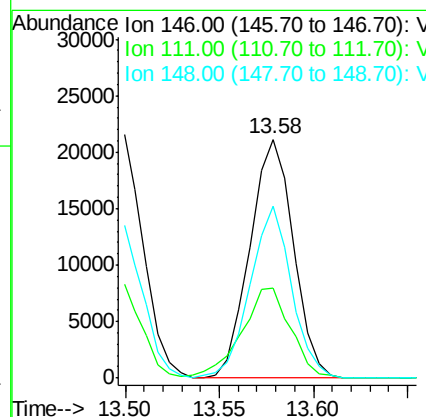
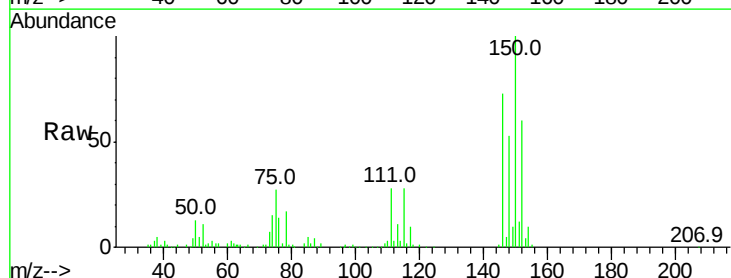
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.507

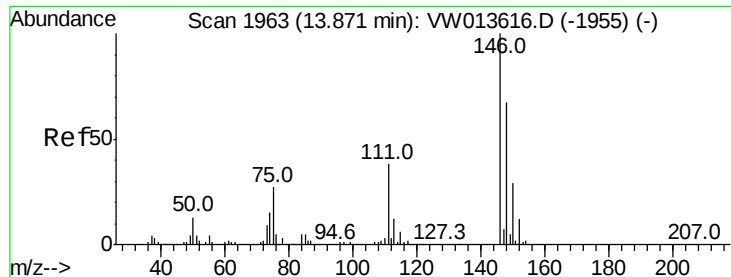
Tgt Ion:146 Resp: 33939
 Ion Ratio Lower Upper
 146 100
 111 38.6 26.1 48.5
 148 62.8 45.8 85.2



#64
 1,4-Dichlorobenzene
 Concen: 2.711 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW013614.D
 Acq: 18 Oct 2019 09:57

Tgt Ion:146 Resp: 33856
 Ion Ratio Lower Upper
 146 100
 111 37.7 24.8 46.0
 148 72.0 43.0 79.8





#65

1,2-Dichlorobenzene

Concen: 2.757 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.507

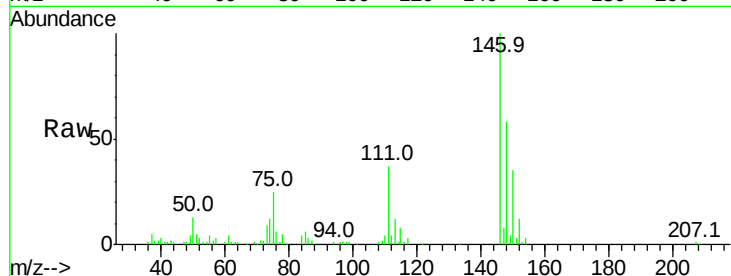
Tgt Ion:146 Resp: 31105

Ion Ratio Lower Upper

146 100

111 36.6 30.7 46.1

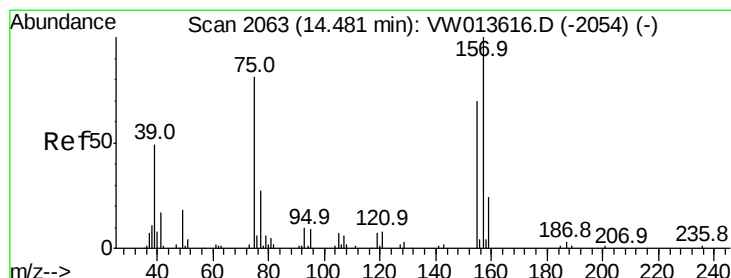
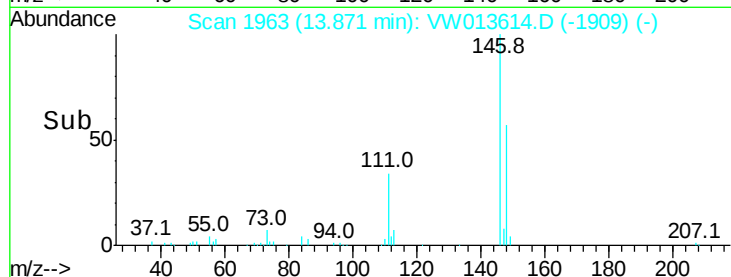
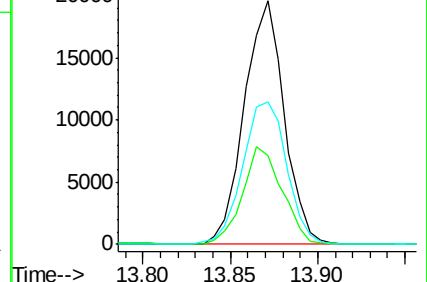
148 58.5 53.3 79.9



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: 2.753 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

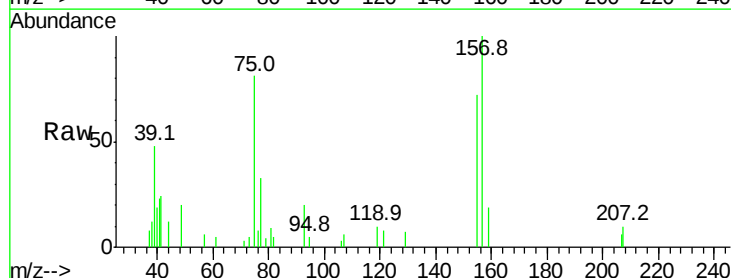
Tgt Ion: 75 Resp: 2144

Ion Ratio Lower Upper

75 100

157 123.6 99.4 149.0

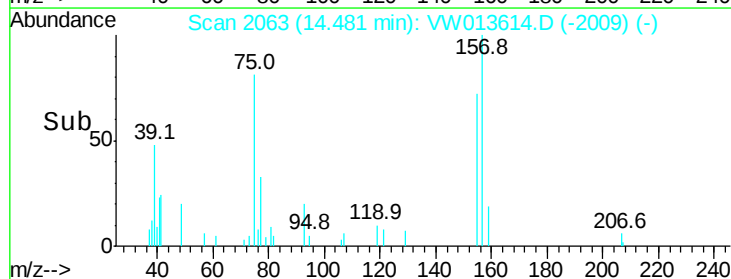
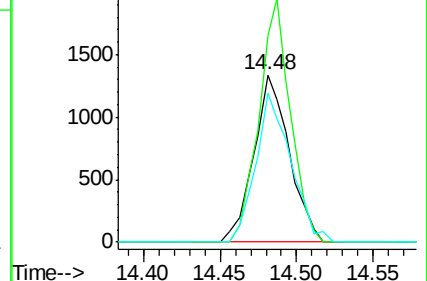
155 88.8 69.7 104.5

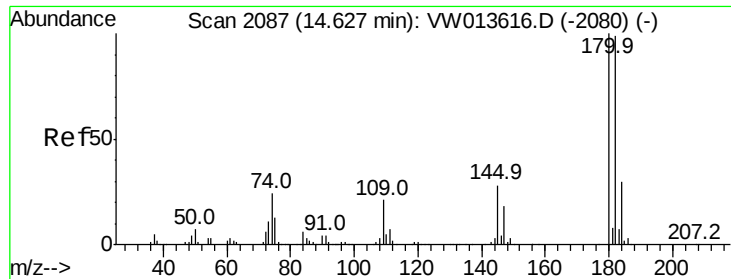


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

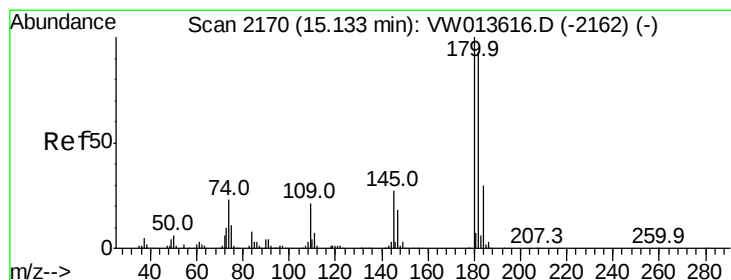
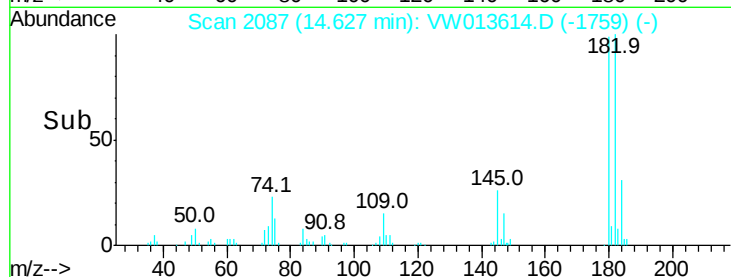
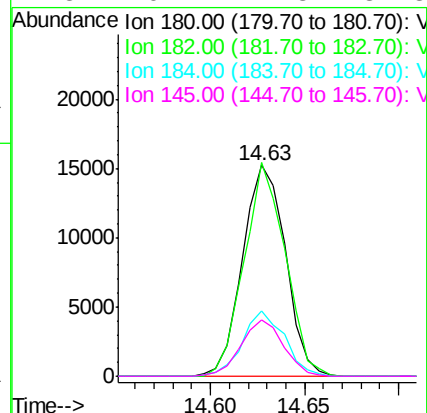
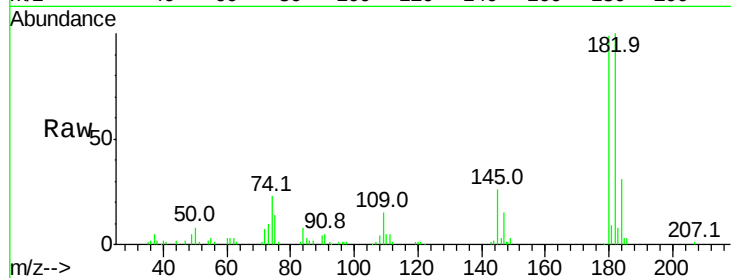




#67
 1,3,5-Trichlorobenzene
 Concen: 2.547 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW013614.D
 Acq: 18 Oct 2019 09:57

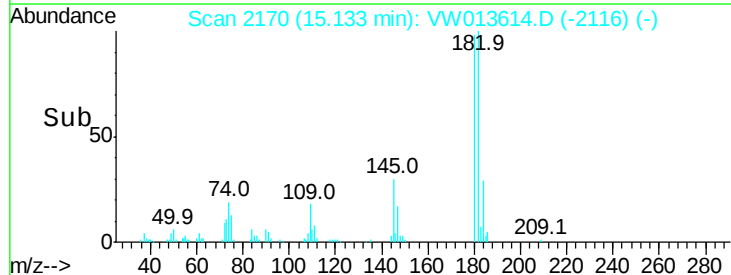
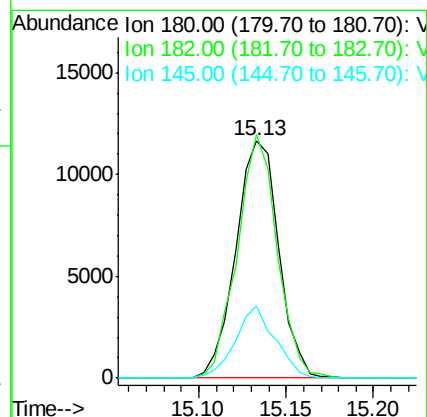
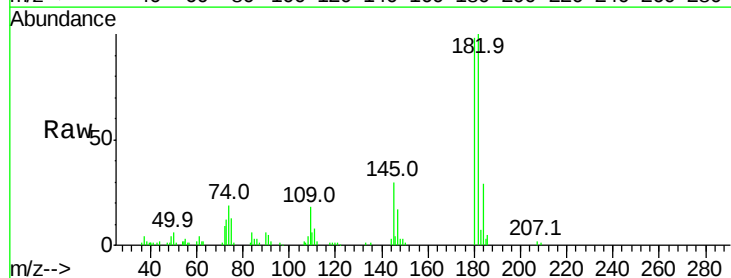
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.507

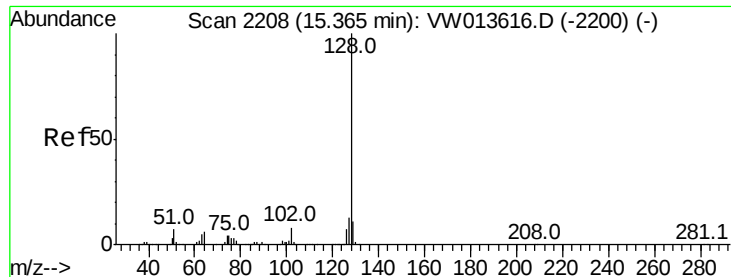
Tgt Ion:180 Resp: 24118
 Ion Ratio Lower Upper
 180 100
 182 96.7 76.2 114.4
 184 30.3 24.1 36.1
 145 26.4 21.8 32.8



#68
 1,2,4-trichlorobenzene
 Concen: 2.534 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW013614.D
 Acq: 18 Oct 2019 09:57

Tgt Ion:180 Resp: 19890
 Ion Ratio Lower Upper
 180 100
 182 95.2 75.8 113.8
 145 28.0 22.6 34.0





#69

Naphthalene

Concen: 2.373 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.507

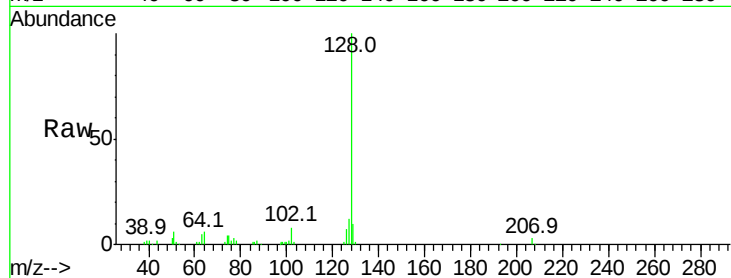
Tgt Ion:128 Resp: 33924

Ion Ratio Lower Upper

128 100

129 10.7 8.6 13.0

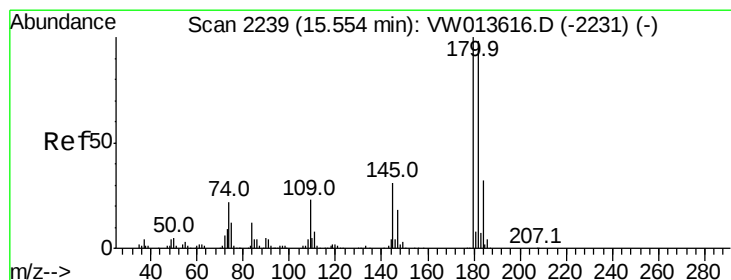
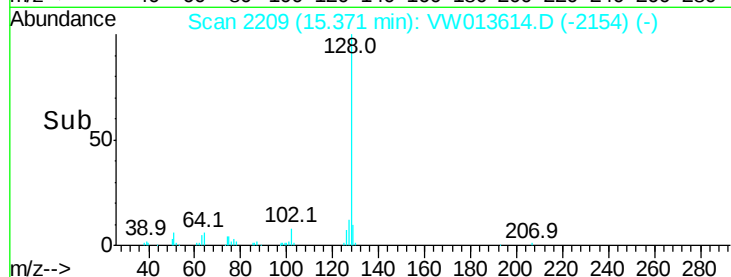
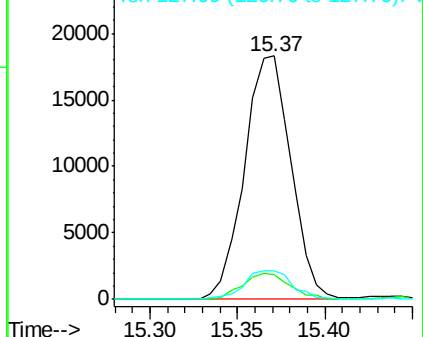
127 12.2 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 2.576 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.01 min

Lab File: VW013614.D

Acq: 18 Oct 2019 09:57

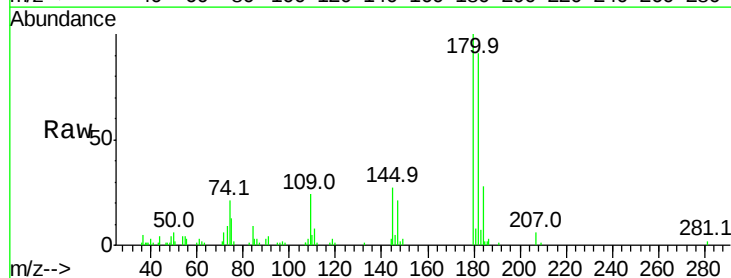
Tgt Ion:180 Resp: 18006

Ion Ratio Lower Upper

180 100

182 97.3 77.0 115.4

145 28.5 24.1 36.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

