

Data File : VW011569.D
Acq On : 30 Jul 2019 10:48
Operator : SY/VA
Sample : VSTD05026
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD05002

Quant Time: Jul 30 11:24:22 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM073019S.M
Quant Title : VOC Analysis
QLast Update : Tue Jul 30 11:14:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	348445	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	309584	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	148632	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	236638	50.87	ug/L	0.00
7) Chloroethane-d5	2.89	69	176229	52.00	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.02	63	568215	53.92	ug/L	0.00
20) 2-Butanone-d5	7.07	46	270621	136.61	ug/L	0.00
24) Chloroform-d	7.65	84	460109	51.56	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.30	65	274928	51.82	ug/L	0.00
29) Benzene-d6	8.27	84	941926	50.87	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	301543	50.26	ug/L	0.00
37) Toluene-d8	10.32	98	840772	50.67	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	139101	53.68	ug/L	0.00
39) 2-Hexanone-d5	10.92	63	182047	139.97	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	275547	57.48	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	275586	49.38	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	218047	51.299	ug/L	98
3) Chloromethane	2.21	50	250206	48.516	ug/L	99
5) Vinyl chloride	2.36	62	334458	55.066	ug/L	98
6) Bromomethane	2.77	94	160104	54.600	ug/L	100
8) Chloroethane	2.92	64	179585	55.525	ug/L	99
9) Trichlorofluoromethane	3.26	101	182031	63.012	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	264681	57.091	ug/L	97
12) 1,1-Dichloroethene	4.04	96	263467	56.927	ug/L	87
13) Acetone	4.12	43	290751	138.739	ug/L	98
14) Carbon disulfide	4.38	76	875490	58.343	ug/L	100
15) Methyl Acetate	4.67	43	242506	75.363	ug/L	100
16) Methylene chloride	4.92	84	268386	52.913	ug/L	98
17) Methyl tert-butyl Ether	5.42	73	444690	60.774	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	272232	57.039	ug/L	98
19) 1,1-Dichloroethane	6.21	63	534785	56.412	ug/L	99
21) 2-Butanone	7.16	43	385556	143.160	ug/L	99
22) cis-1,2-Dichloroethene	7.16	96	284041	56.180	ug/L	100
23) Bromochloromethane	7.51	128	119699	56.647	ug/L	99
25) Chloroform	7.68	83	486851	55.749	ug/L	99
27) 1,2-Dichloroethane	8.40	62	370716	58.243	ug/L	97
30) Cyclohexane	7.96	56	578554	57.373	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	392802	56.998	ug/L	99
32) Carbon tetrachloride	8.07	117	374944	58.546	ug/L	100
34) Benzene	8.32	78	1121225	55.792	ug/L	100
35) Trichloroethene	9.09	95	287417	56.271	ug/L	99
36) Methylcyclohexane	9.34	83	532704	57.355	ug/L	99
40) 1,2-Dichloropropane	9.37	63	297635	55.126	ug/L	100
41) Bromodichloromethane	9.65	83	358105	56.727	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	467967	57.691	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	660248	142.843	ug/L	100

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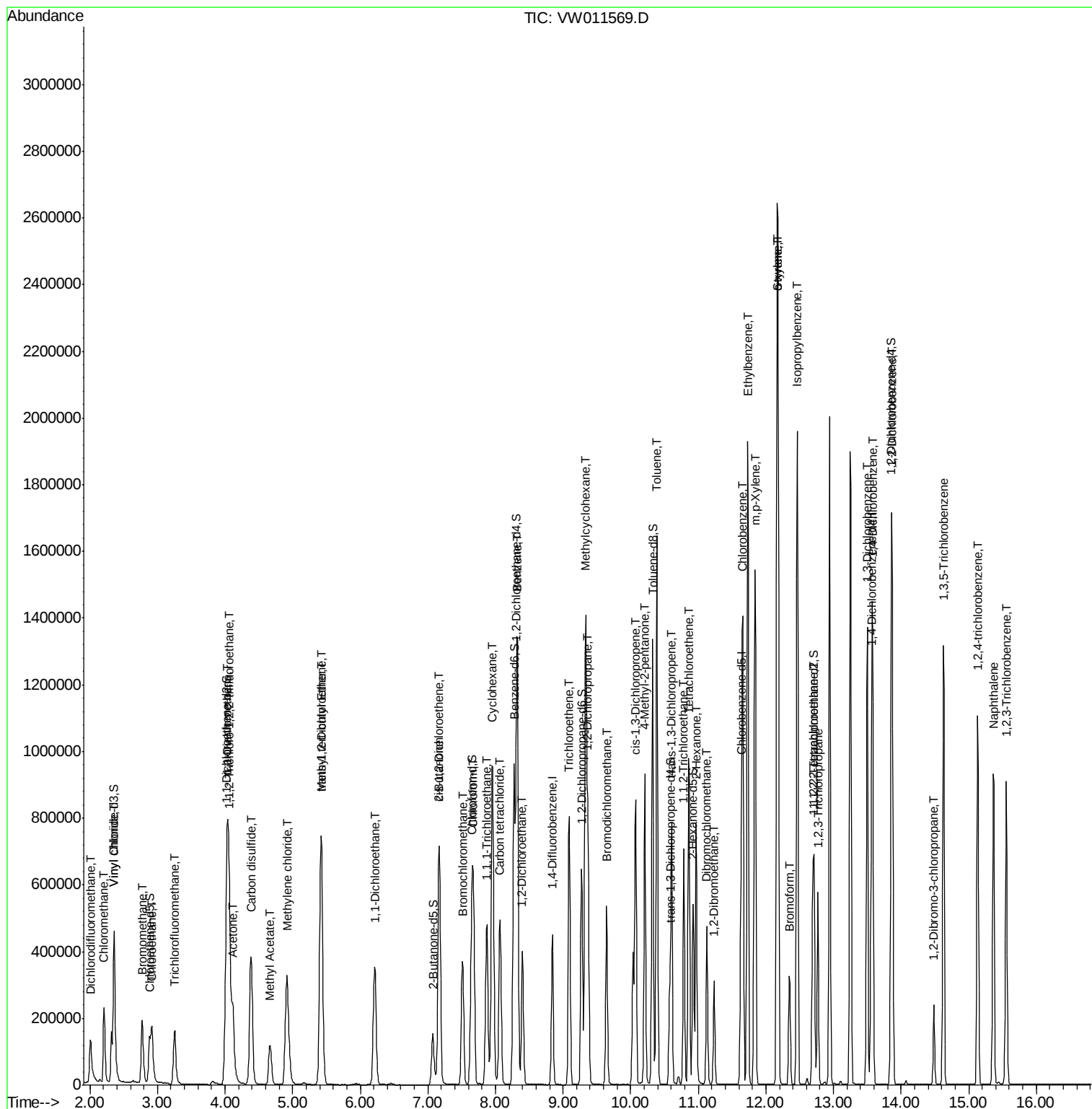
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.39	91	1154748	56.020	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	396374	59.459	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	212293	58.741	ug/L	98
47) Tetrachloroethene	10.86	164	217659	55.544	ug/L	95
49) 2-Hexanone	10.97	43	517961	148.456	ug/L	99
50) Dibromochloromethane	11.13	129	238653	59.655	ug/L	96
51) 1,2-Dibromoethane	11.24	107	211621	60.546	ug/L	99
52) Chlorobenzene	11.66	112	684103	55.033	ug/L	98
53) Ethylbenzene	11.73	91	1299385	56.011	ug/L	98
54) m,p-Xylene	11.84	106	471598	55.507	ug/L	96
55) o-xylene	12.16	106	447408	55.871	ug/L	98
56) Styrene	12.18	104	772828	57.370	ug/L	100
57) Isopropylbenzene	12.46	105	1234062	56.577	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	299384	63.771	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	233319	65.047	ug/L	98
62) Bromoform	12.35	173	150401	63.932	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	524725	55.751	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	521758	54.579	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	475964	54.960	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	60010	72.698	ug/L	98
67) 1,3,5-Trichlorobenzene	14.63	180	398017	55.435	ug/L	100
68) 1,2,4-trichlorobenzene	15.13	180	334874	56.277	ug/L	99
69) Naphthalene	15.36	128	775799	64.048	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	310244	57.551	ug/L	99

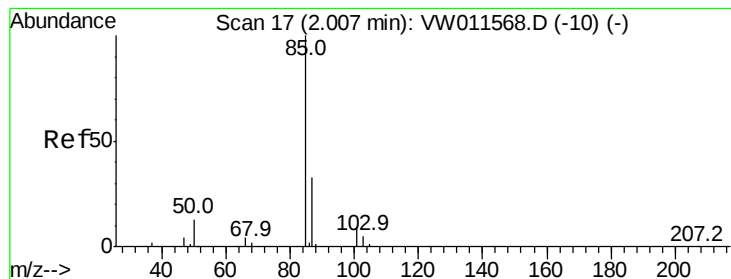
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 51.299 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

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Instrument :

MSVOA_W

ClientSampleId :

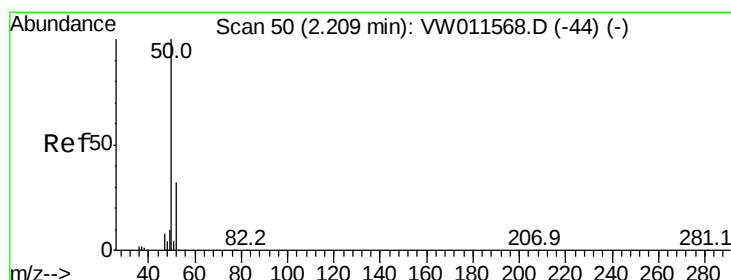
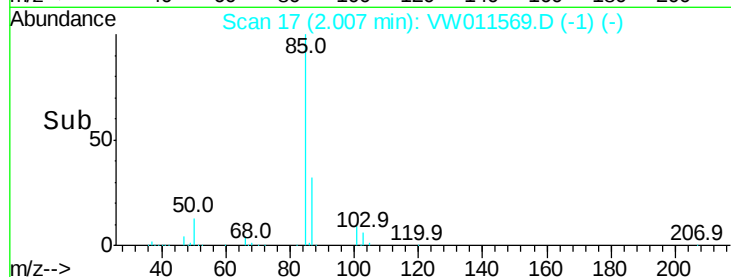
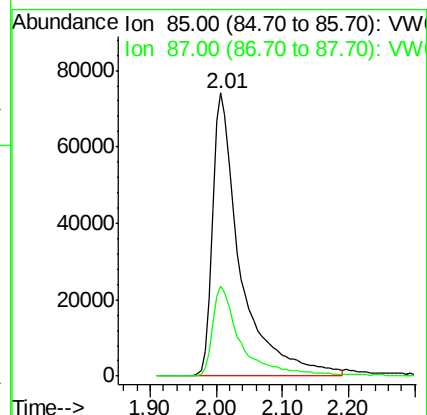
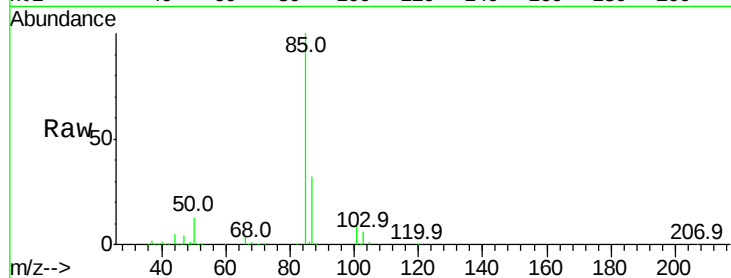
VSTD05002

Tgt Ion: 85 Resp: 218047

Ion Ratio Lower Upper

85 100

87 30.2 21.8 40.6



#3

Chloromethane

Concen: 48.516 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW011569.D

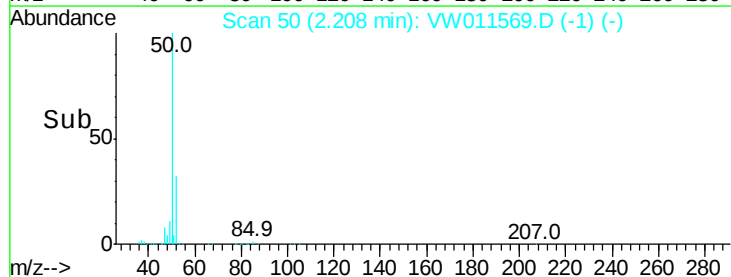
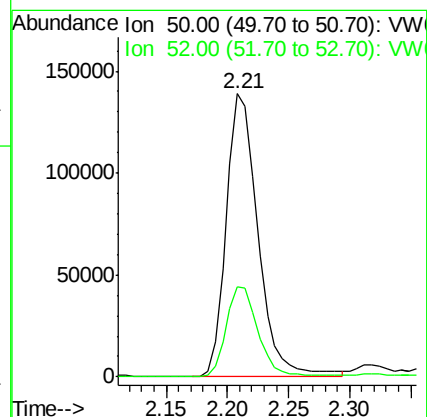
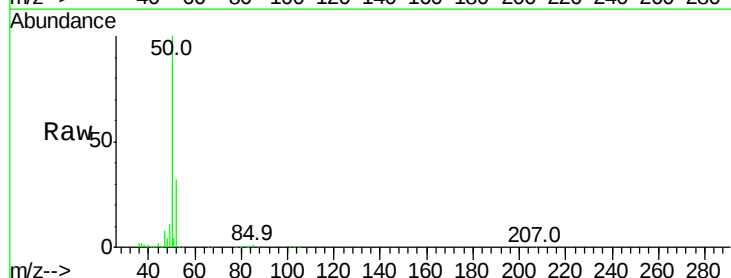
Acq: 30 Jul 2019 10:48

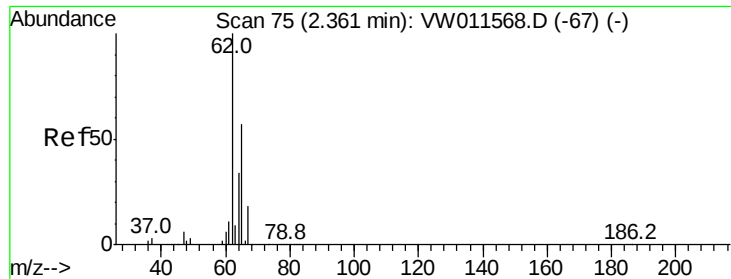
Tgt Ion: 50 Resp: 250206

Ion Ratio Lower Upper

50 100

52 31.9 22.7 42.1





#5

Vinyl chloride

Concen: 55.066 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

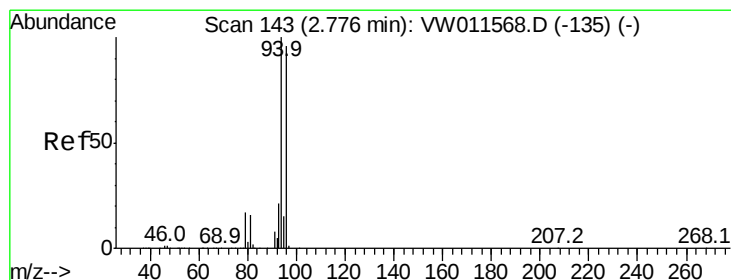
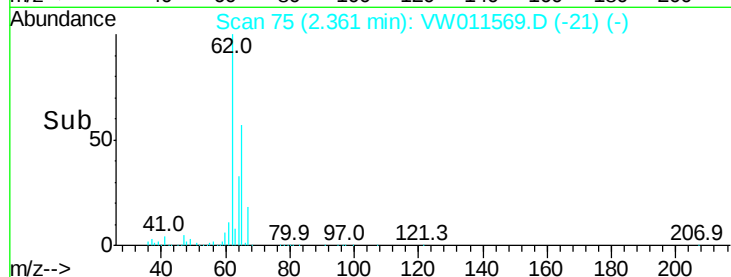
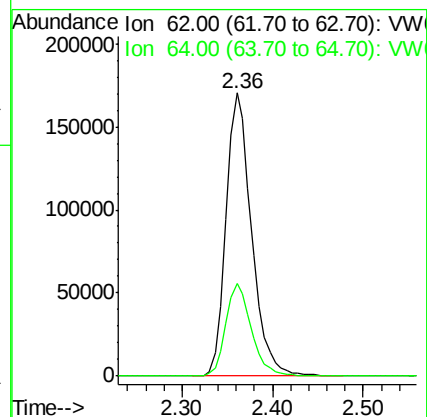
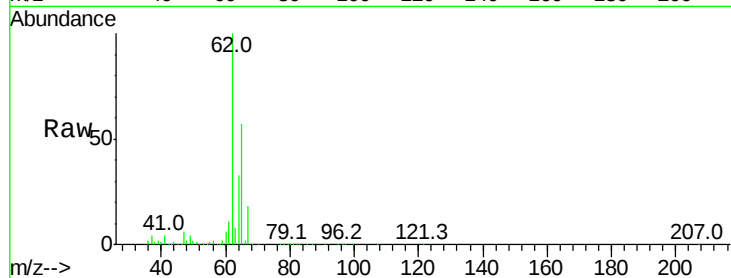
VSTD05002

Tgt Ion: 62 Resp: 334458

Ion Ratio Lower Upper

62 100

64 32.8 23.6 43.8



#6

Bromomethane

Concen: 54.600 ug/L

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW011569.D

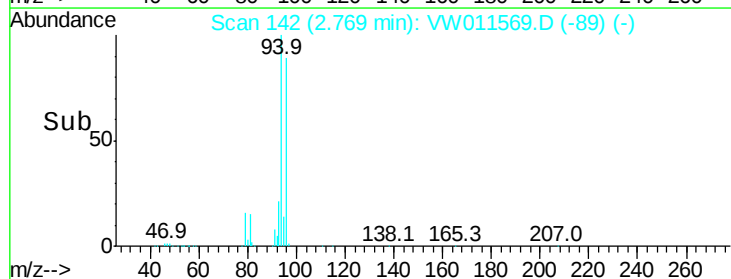
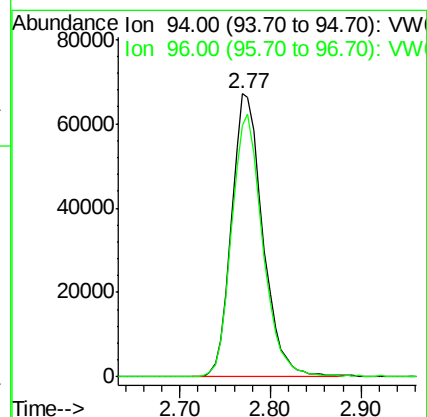
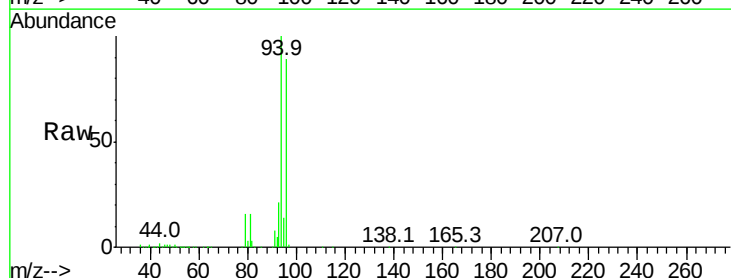
Acq: 30 Jul 2019 10:48

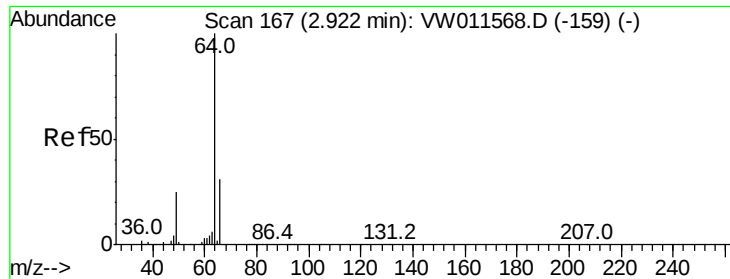
Tgt Ion: 94 Resp: 160104

Ion Ratio Lower Upper

94 100

96 92.5 9.3 175.9





#8

Chloroethane

Concen: 55.525 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

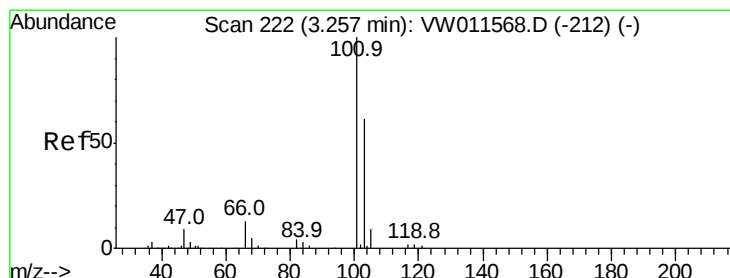
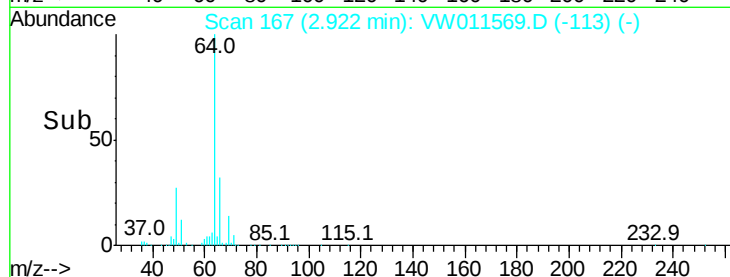
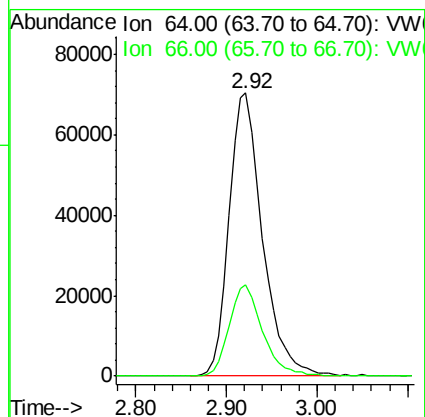
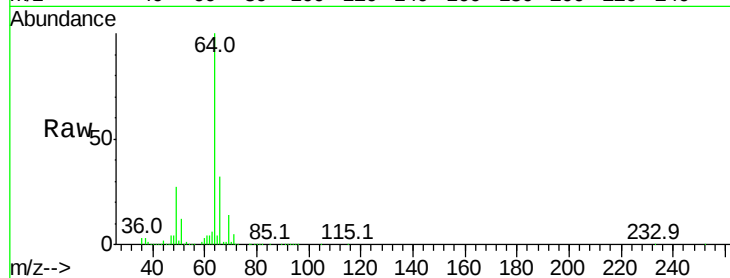
VSTD05002

Tgt Ion: 64 Resp: 179585

Ion Ratio Lower Upper

64 100

66 32.1 22.0 40.8



#9

Trichlorofluoromethane

Concen: 63.012 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW011569.D

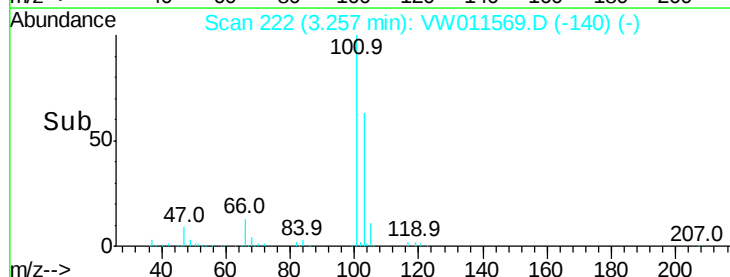
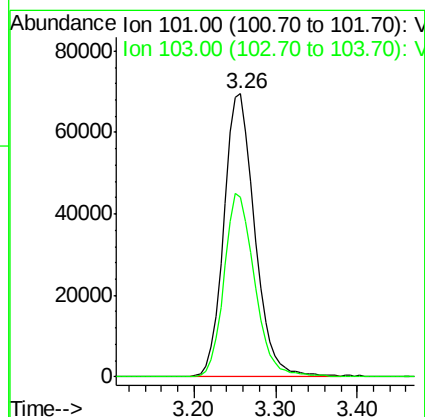
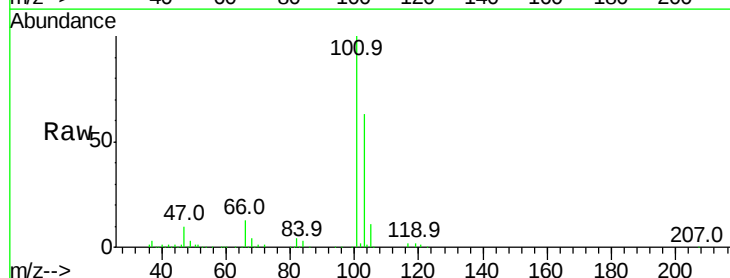
Acq: 30 Jul 2019 10:48

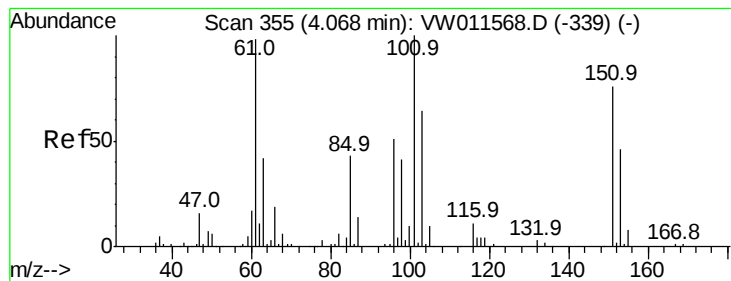
Tgt Ion: 101 Resp: 182031

Ion Ratio Lower Upper

101 100

103 63.8 44.3 82.3





#11

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

Concen: 57.091 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD05002

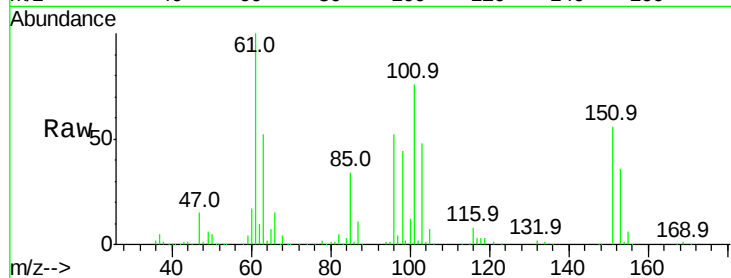
Tgt Ion: 101 Resp: 264681

Ion Ratio Lower Upper

101 100

85 44.2 37.0 55.4

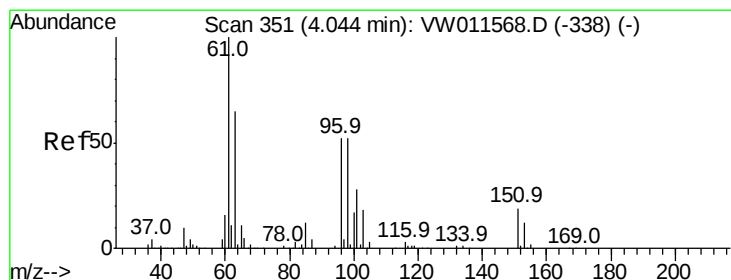
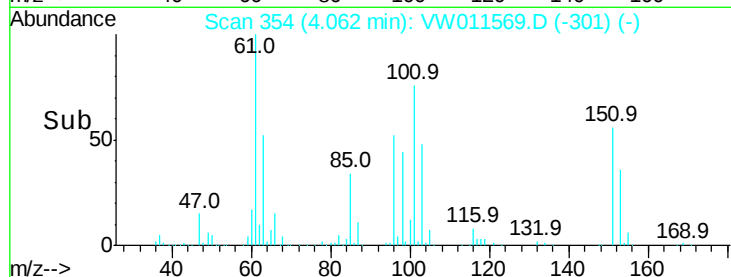
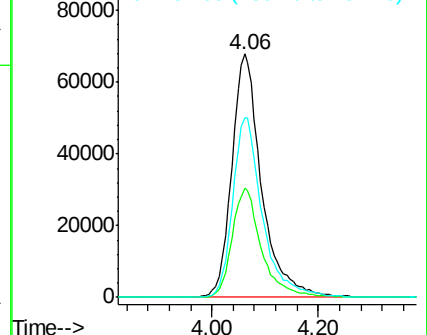
151 73.3 60.8 91.2



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: 56.927 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

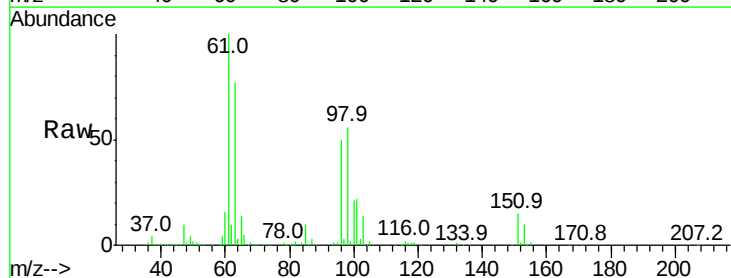
Tgt Ion: 96 Resp: 263467

Ion Ratio Lower Upper

96 100

61 202.0 135.0 250.8

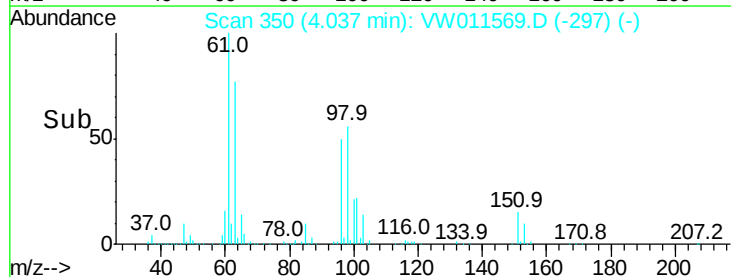
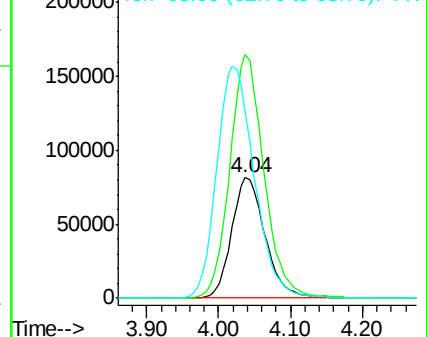
63 155.2 89.2 165.8

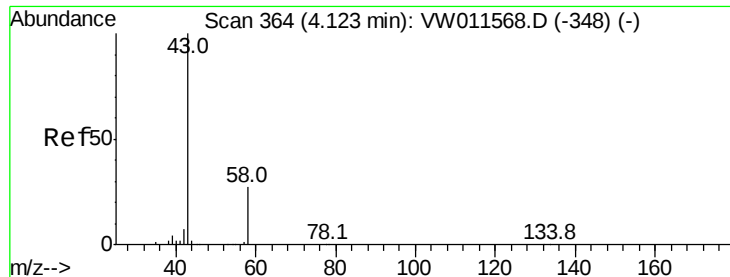


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 138.739 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

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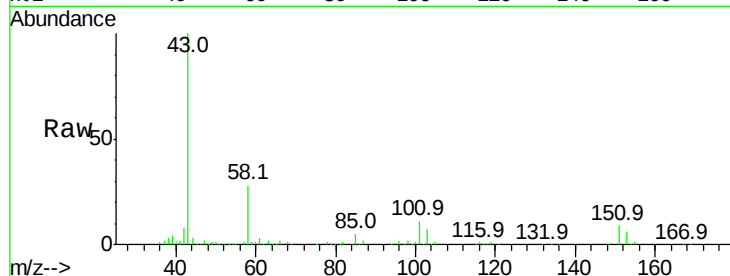
VSTD05002

Tgt Ion: 43 Resp: 290751

Ion Ratio Lower Upper

43 100

58 27.6 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

120000

100000

80000

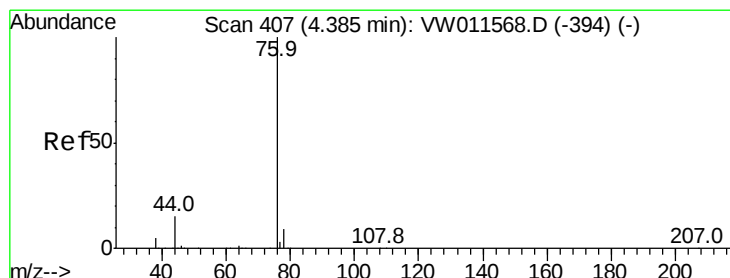
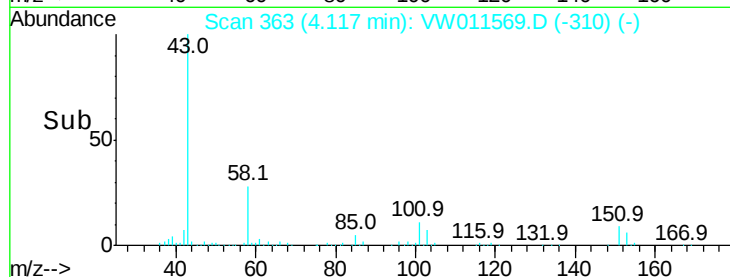
60000

40000

20000

0

Time-->



#14

Carbon disulfide

Concen: 58.343 ug/L

RT: 4.38 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW011569.D

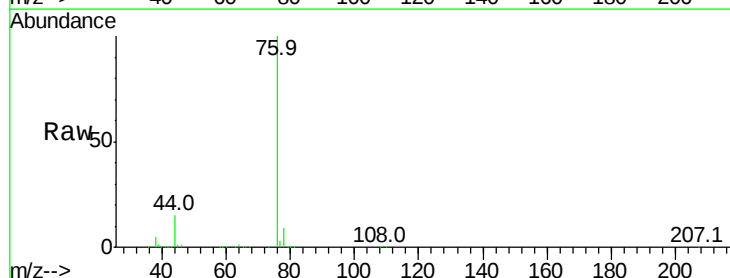
Acq: 30 Jul 2019 10:48

Tgt Ion: 76 Resp: 875490

Ion Ratio Lower Upper

76 100

78 8.9 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.38

300000

250000

200000

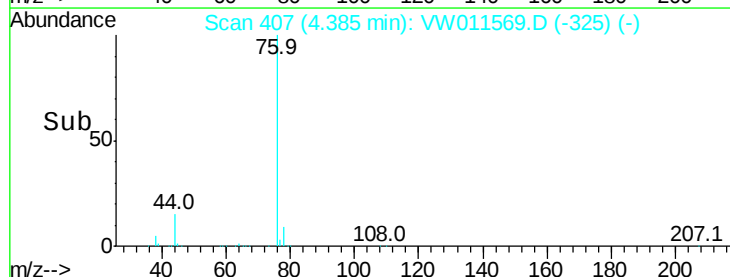
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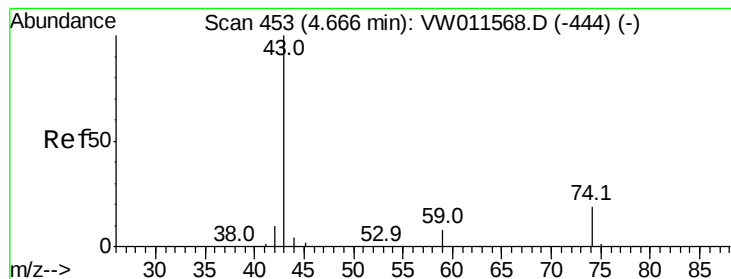
100000

50000

0

Time-->





#15

Methyl Acetate

Concen: 75.363 ug/L

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

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ClientSampleId :

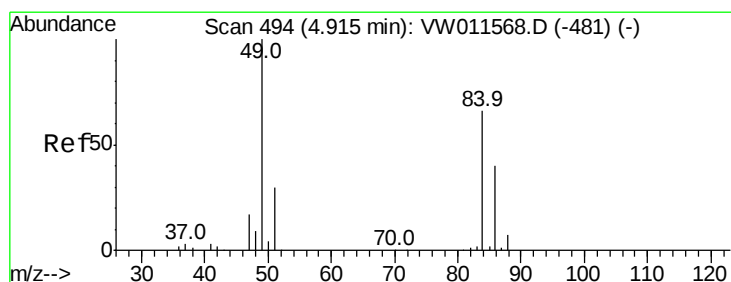
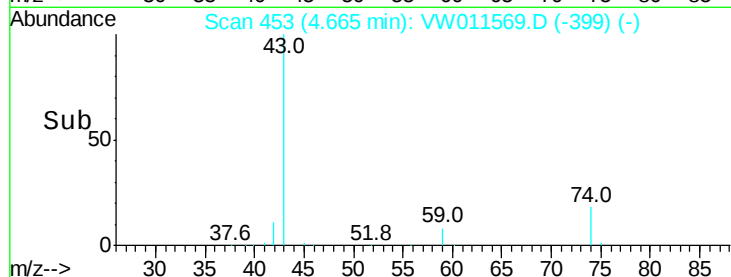
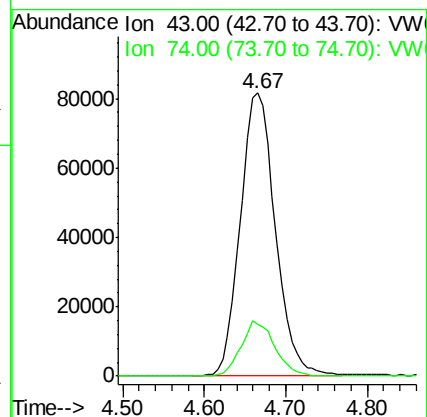
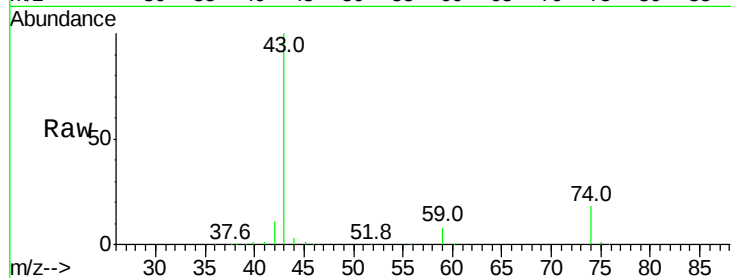
VSTD05002

Tgt Ion: 43 Resp: 242506

Ion Ratio Lower Upper

43 100

74 18.7 15.0 22.4



#16

Methylene chloride

Concen: 52.913 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

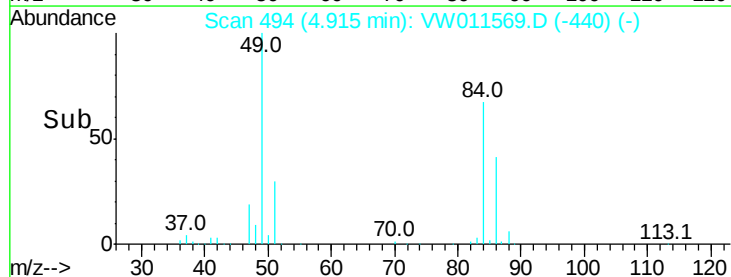
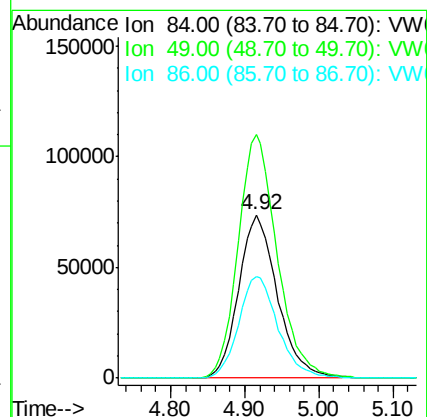
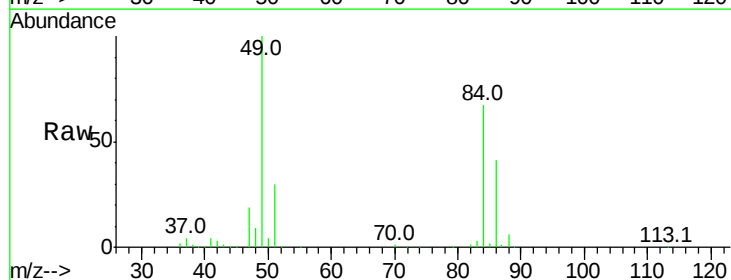
Tgt Ion: 84 Resp: 268386

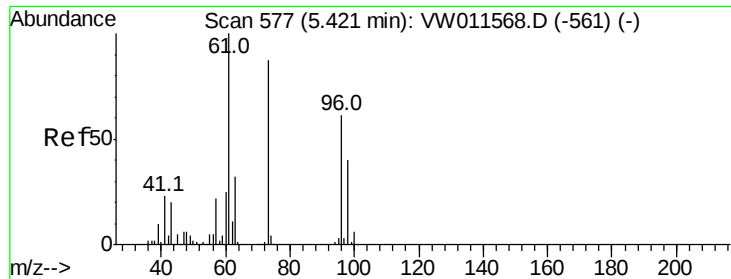
Ion Ratio Lower Upper

84 100

49 148.9 106.8 198.4

86 61.7 42.8 79.4

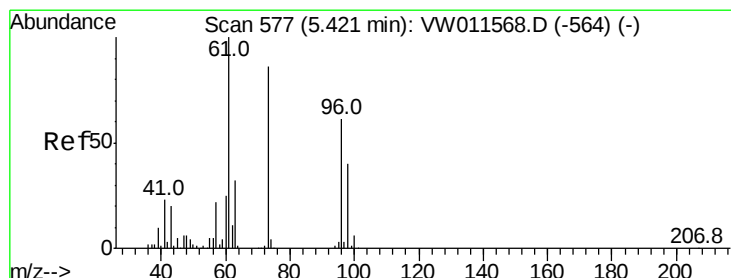
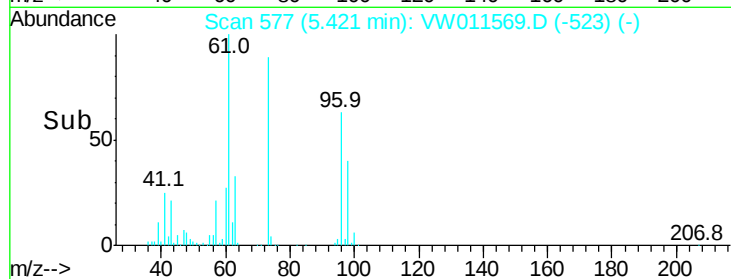
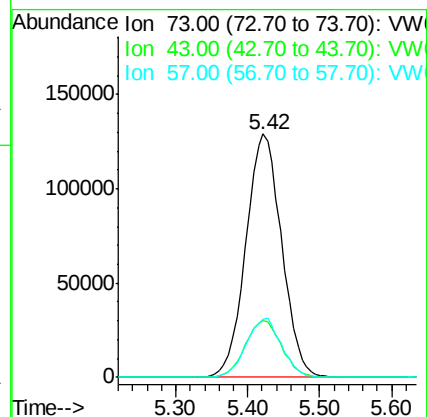
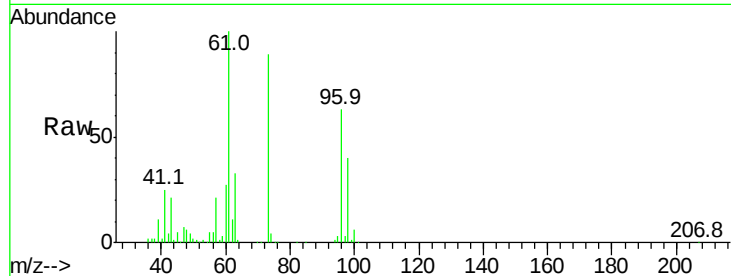




#17
Methyl tert-butyl Ether
Concen: 60.774 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW011569.D
Acq: 30 Jul 2019 10:48

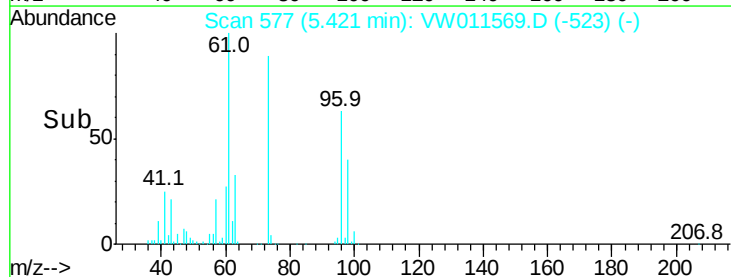
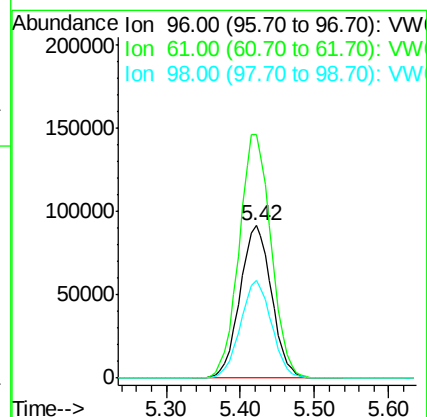
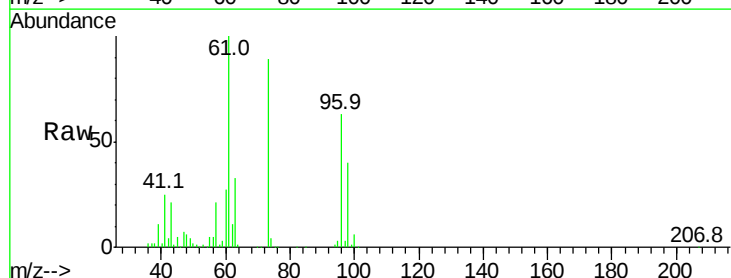
Instrument :
MSVOA_W
ClientSampleId :
VSTD05002

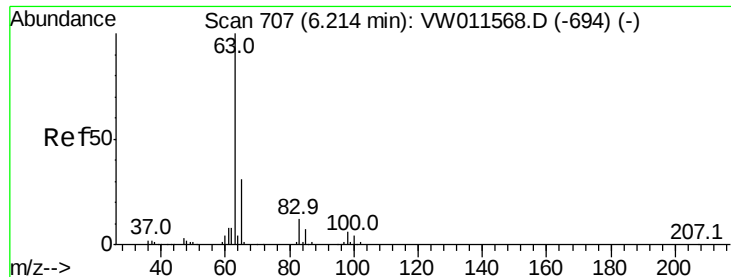
Tgt Ion: 73 Resp: 444690
Ion Ratio Lower Upper
73 100
43 23.6 19.3 28.9
57 23.9 19.7 29.5



#18
trans-1,2-Dichloroethene
Concen: 57.039 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW011569.D
Acq: 30 Jul 2019 10:48

Tgt Ion: 96 Resp: 272232
Ion Ratio Lower Upper
96 100
61 159.6 114.2 212.0
98 64.2 45.6 84.6

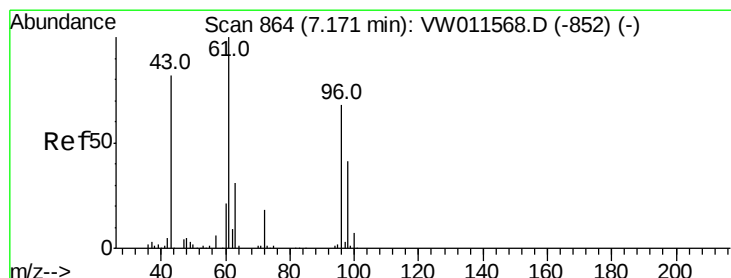
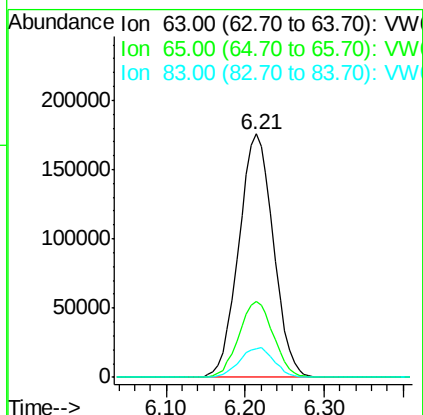
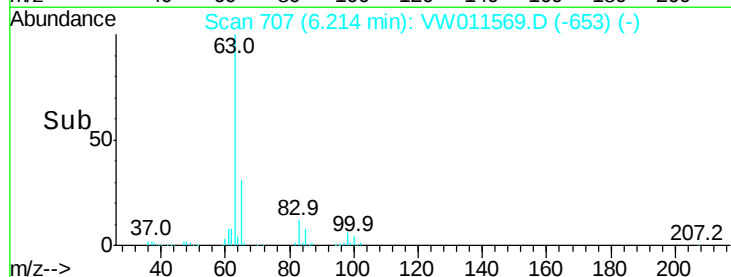
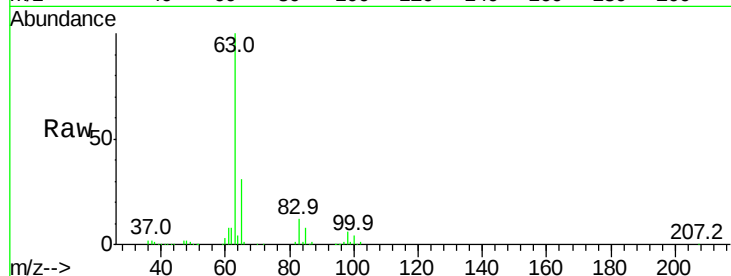




#19
 1,1-Dichloroethane
 Concen: 56.412 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VW011569.D
 Acq: 30 Jul 2019 10:48

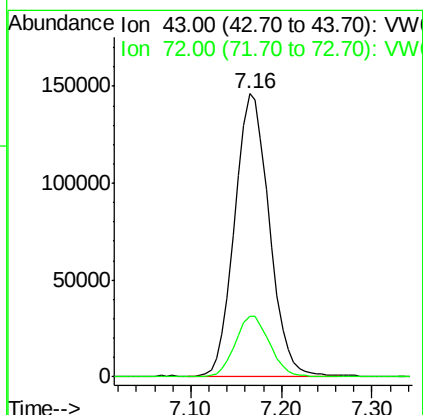
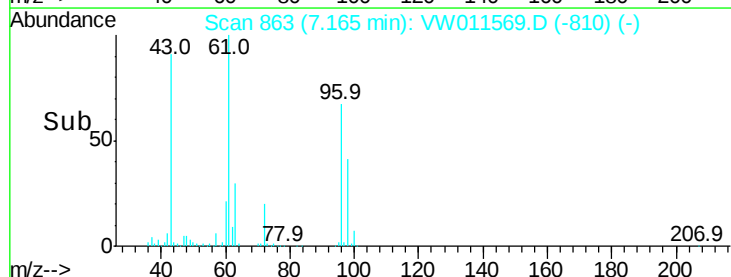
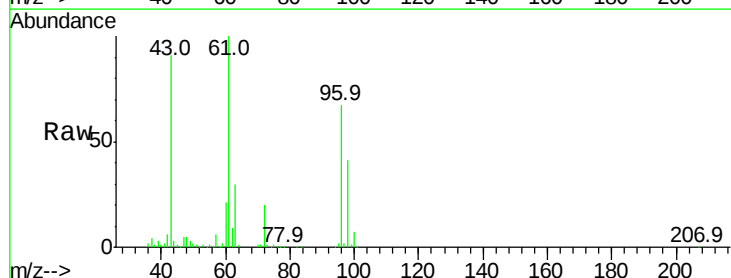
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05002

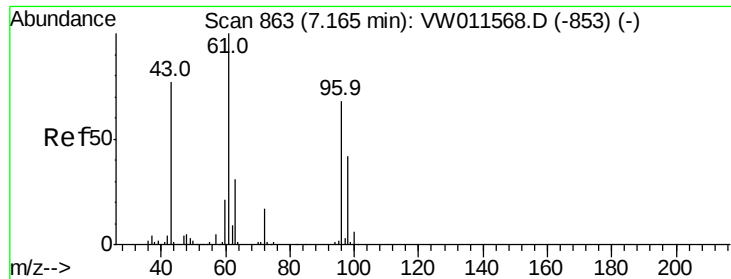
Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.4	21.7	40.3
83	11.9	8.4	15.6



#21
 2-Butanone
 Concen: 143.160 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW011569.D
 Acq: 30 Jul 2019 10:48

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.7	10.7	32.1





#22

cis-1,2-Dichloroethene

Concen: 56.180 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD05002

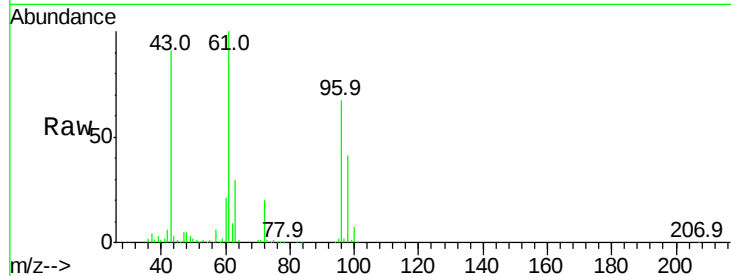
Tgt Ion: 96 Resp: 284041

Ion Ratio Lower Upper

96 100

61 148.9 103.9 192.9

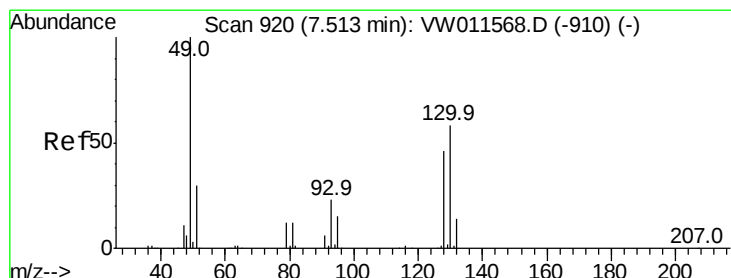
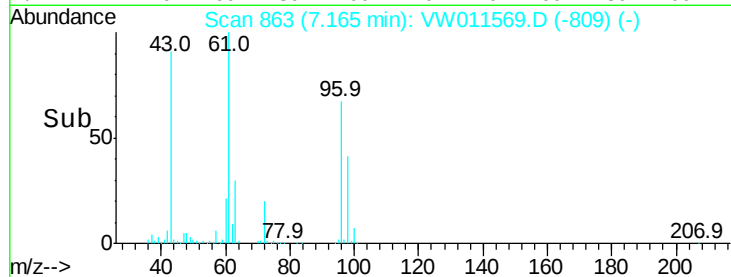
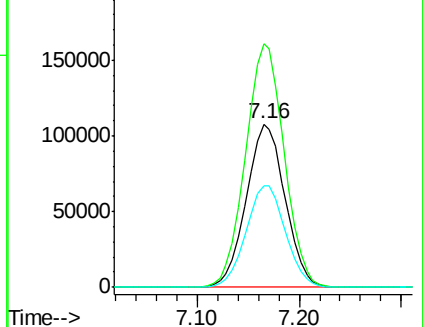
98 61.8 43.5 80.9



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: 56.647 ug/L

RT: 7.51 min Scan# 920

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Tgt Ion: 128 Resp: 119699

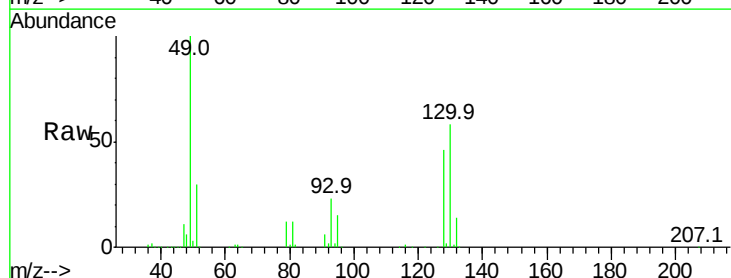
Ion Ratio Lower Upper

128 100

49 219.6 153.6 285.3

130 126.7 89.5 166.3

51 64.9 53.0 79.6

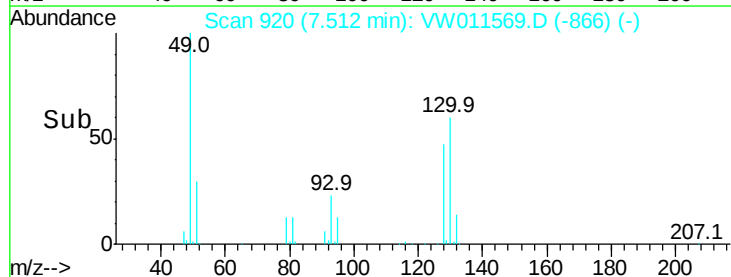
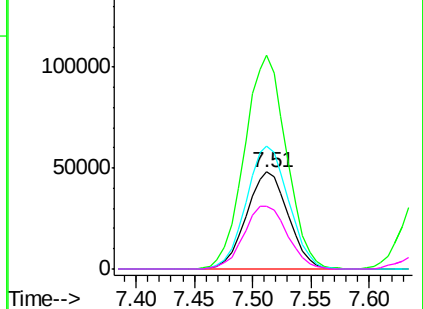


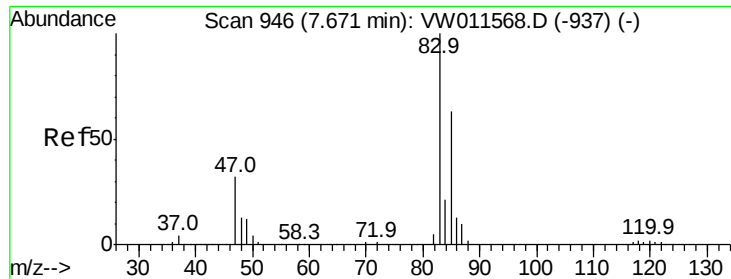
Abundance Ion 128.00 (127.70 to 128.70): V

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: 55.749 ug/L

RT: 7.68 min Scan# 947

Delta R.T. 0.01 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

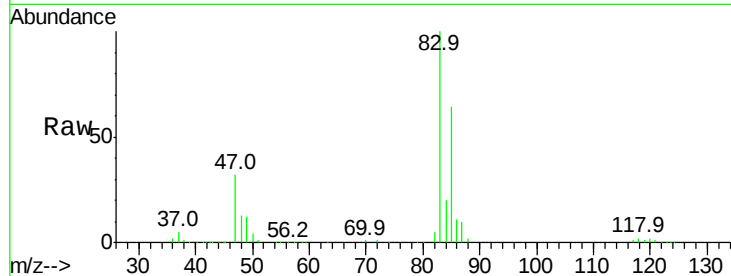
VSTD05002

Tgt Ion: 83 Resp: 486851

Ion Ratio Lower Upper

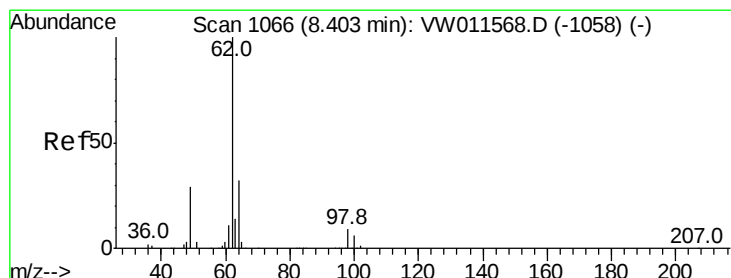
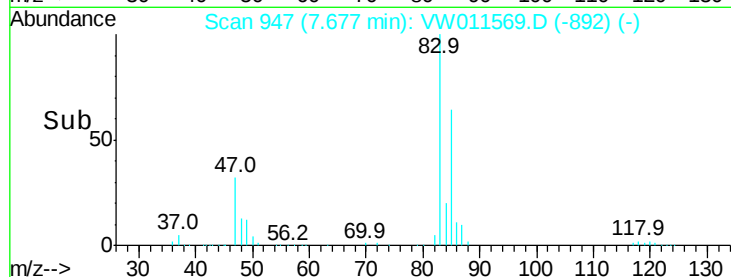
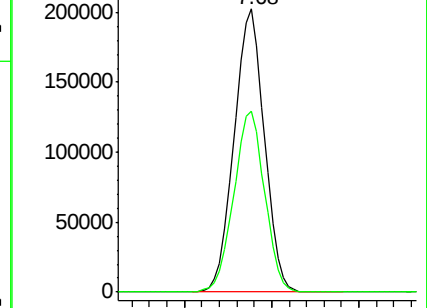
83 100

85 65.3 45.4 84.2



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



#27

1,2-Dichloroethane

Concen: 58.243 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VW011569.D

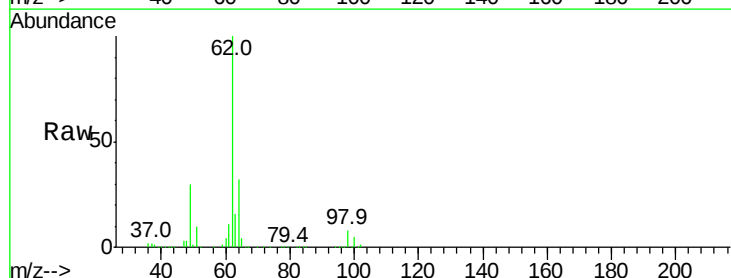
Acq: 30 Jul 2019 10:48

Tgt Ion: 62 Resp: 370716

Ion Ratio Lower Upper

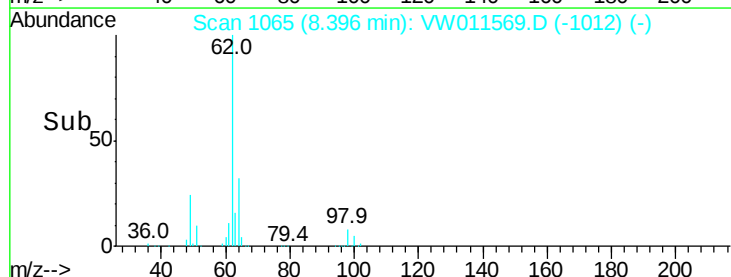
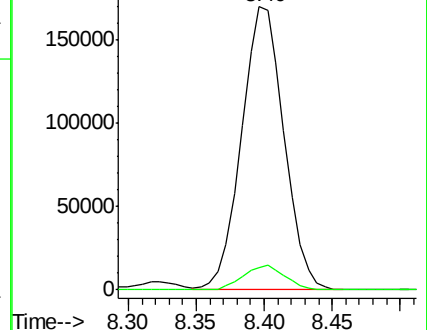
62 100

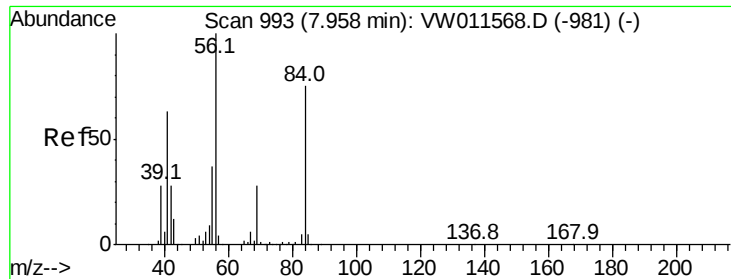
98 8.0 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

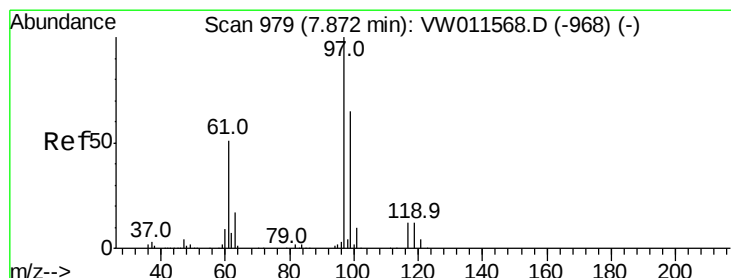
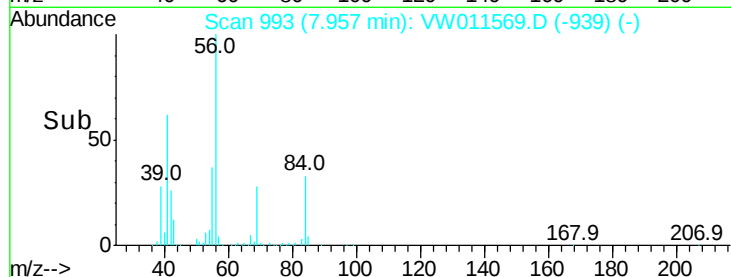
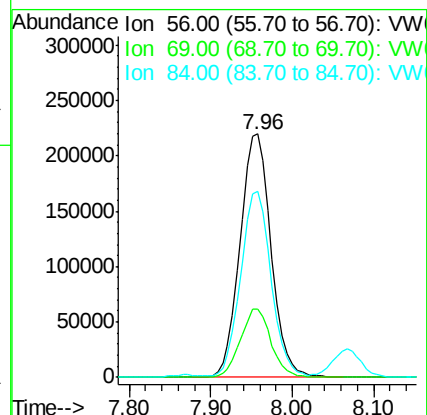
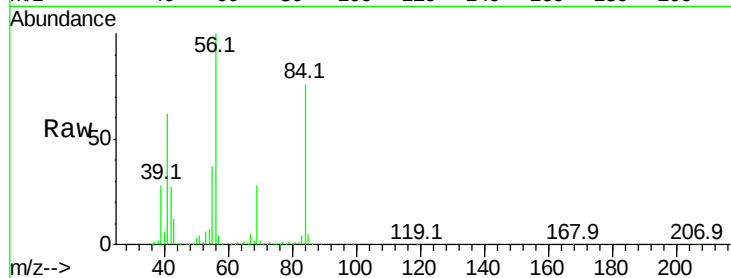




#30
Cyclohexane
Concen: 57.373 ug/L
RT: 7.96 min Scan# 993
Delta R.T. -0.00 min
Lab File: VW011569.D
Acq: 30 Jul 2019 10:48

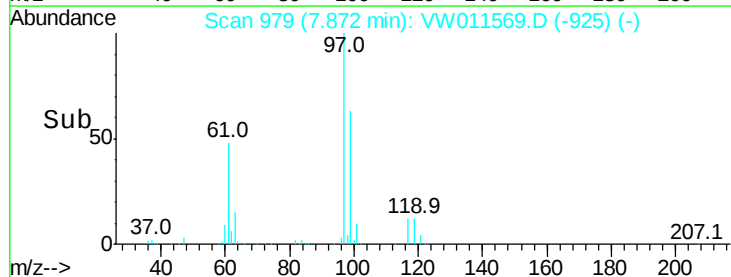
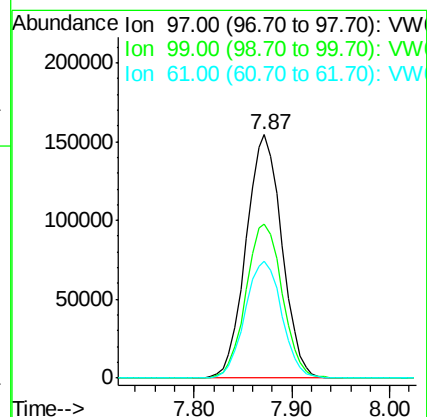
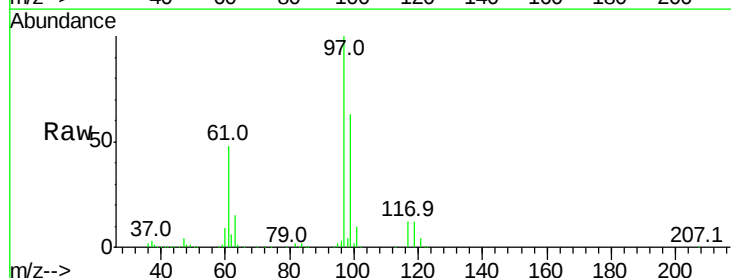
Instrument :
MSVOA_W
ClientSampleId :
VSTD05002

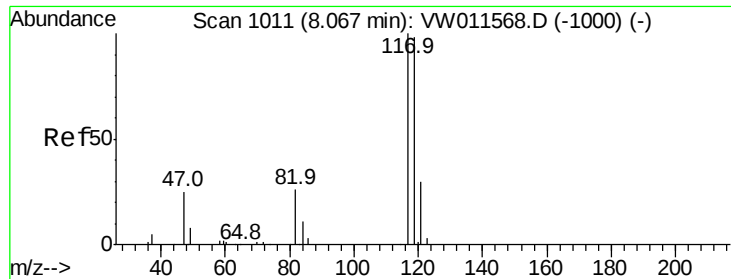
Tgt Ion: 56 Resp: 578554
Ion Ratio Lower Upper
56 100
69 27.8 22.4 33.6
84 75.3 60.6 91.0



#31
1,1,1-Trichloroethane
Concen: 56.998 ug/L
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW011569.D
Acq: 30 Jul 2019 10:48

Tgt Ion: 97 Resp: 392802
Ion Ratio Lower Upper
97 100
99 64.2 52.1 78.1
61 49.1 40.3 60.5





#32

Carbon tetrachloride

Concen: 58.546 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

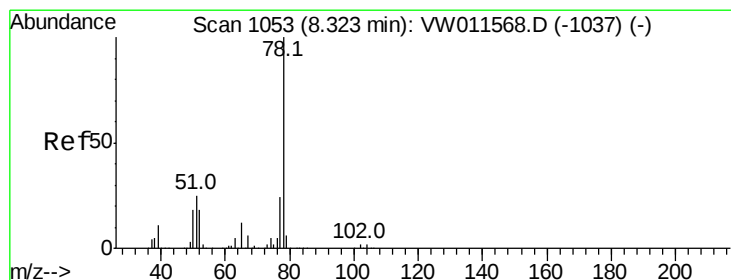
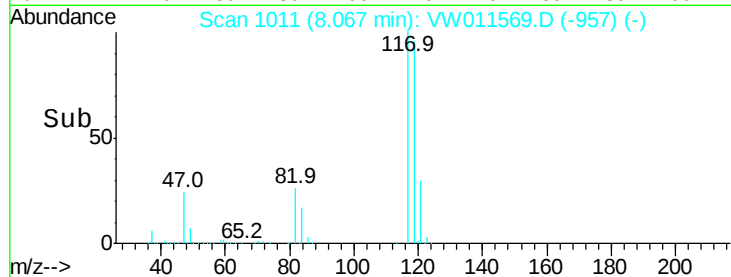
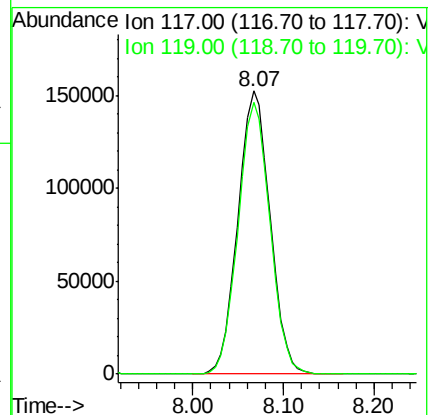
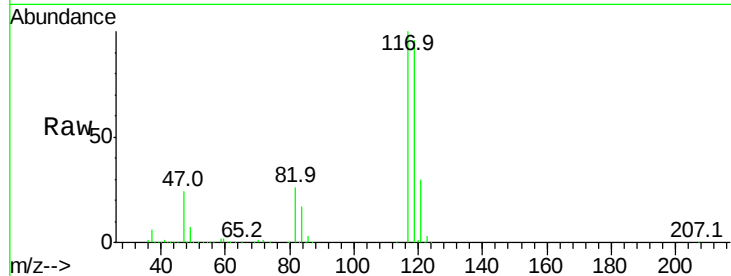
VSTD05002

Tgt Ion:117 Resp: 374944

Ion Ratio Lower Upper

117 100

119 95.3 76.2 114.4



#34

Benzene

Concen: 55.792 ug/L

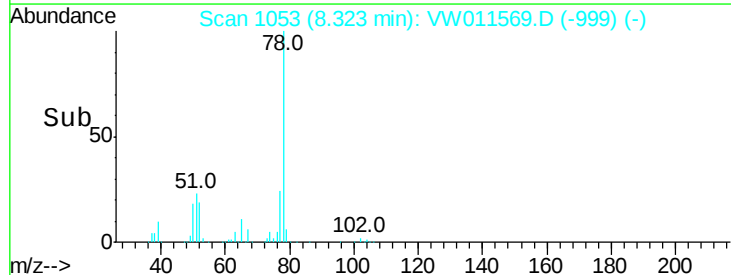
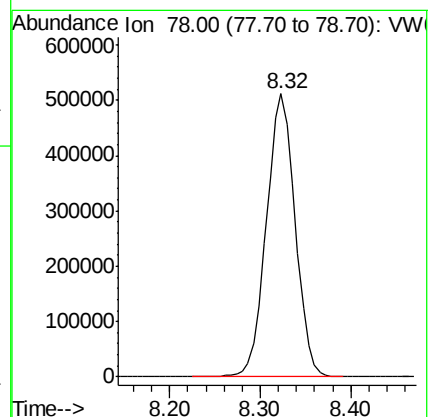
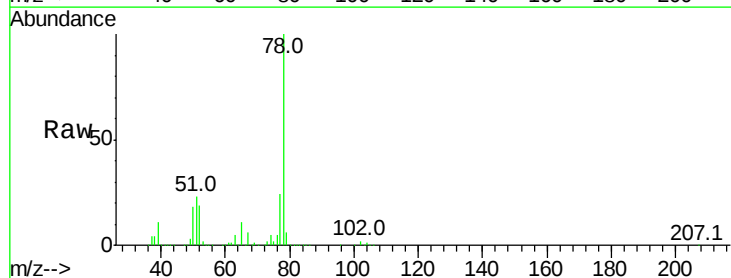
RT: 8.32 min Scan# 1053

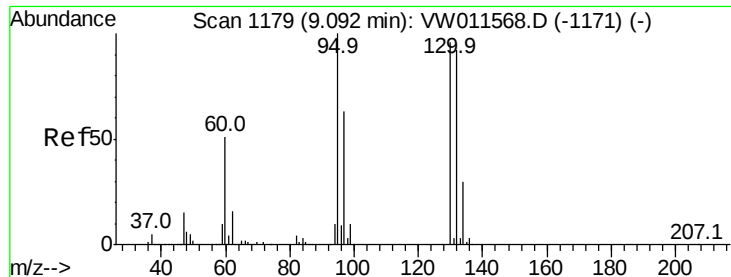
Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Tgt Ion: 78 Resp: 1121225





#35

Trichloroethene

Concen: 56.271 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD05002

Tgt Ion: 95 Resp: 287417

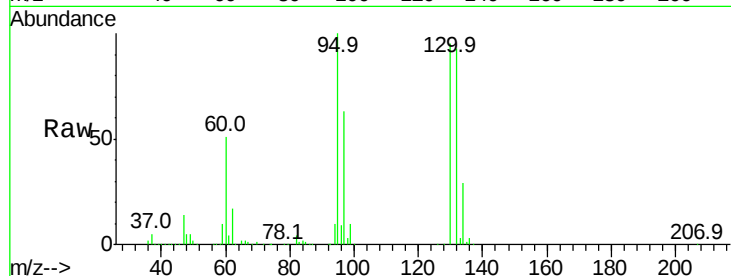
Ion Ratio Lower Upper

95 100

97 63.2 44.8 83.2

132 91.4 65.0 120.6

130 96.1 68.0 126.4

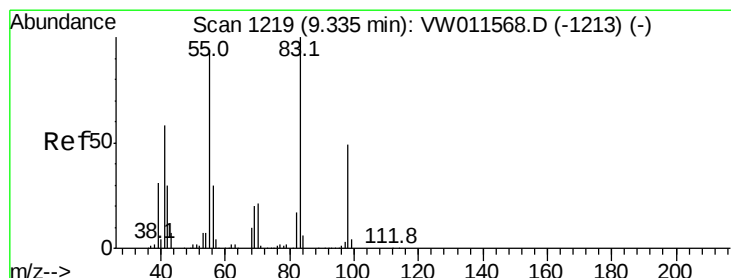
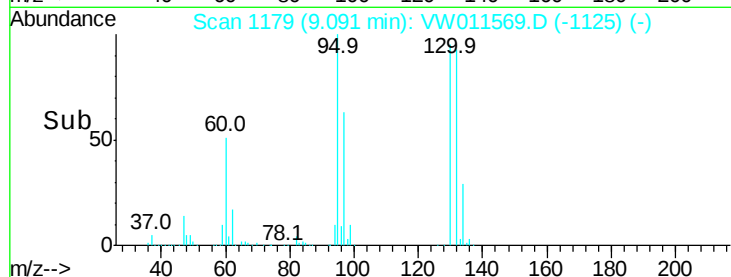
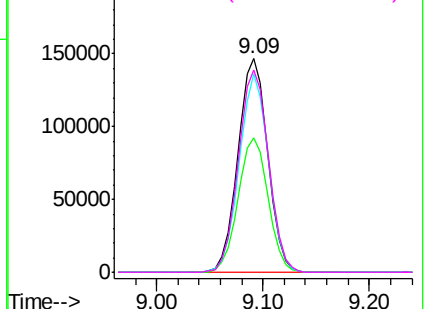


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 57.355 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

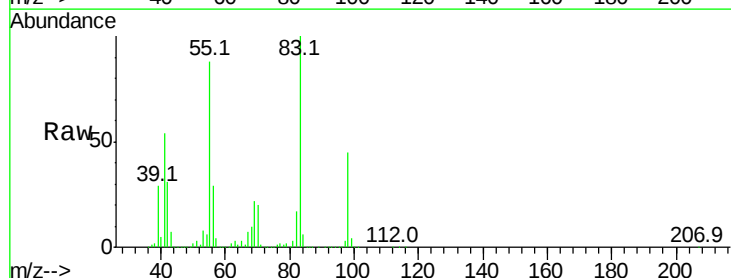
Tgt Ion: 83 Resp: 532704

Ion Ratio Lower Upper

83 100

55 88.9 72.6 108.8

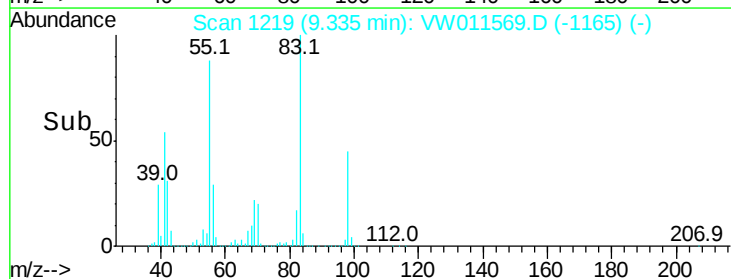
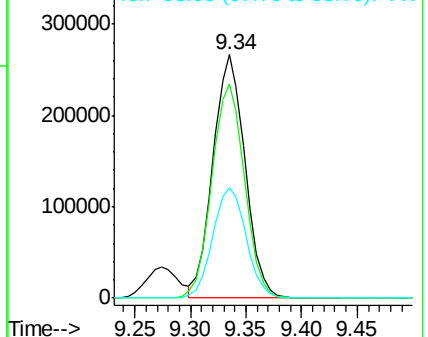
98 47.1 37.8 56.6

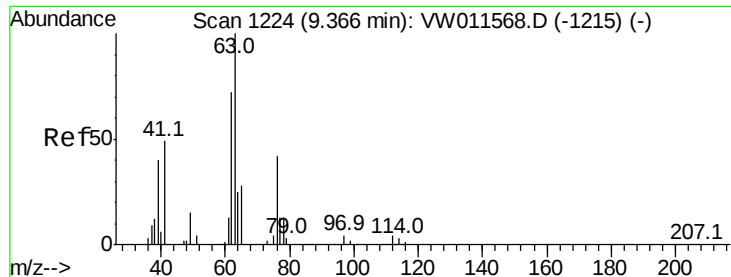


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 55.126 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

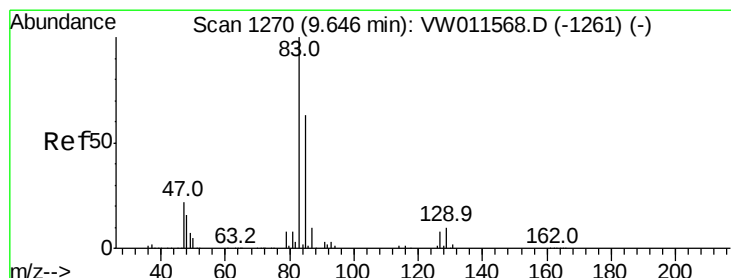
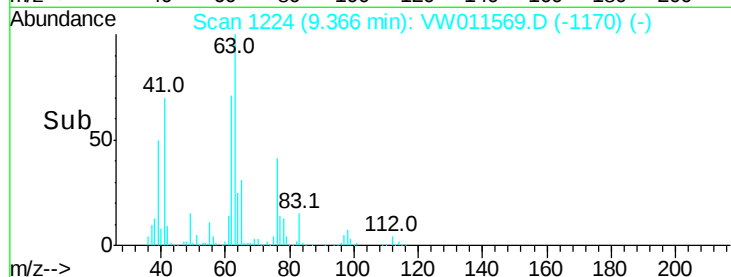
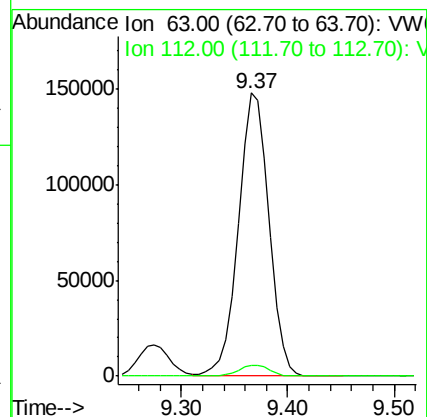
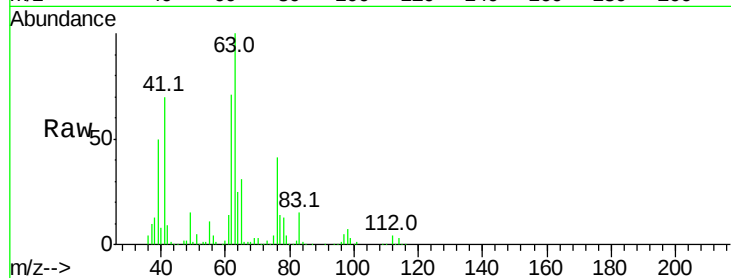
VSTD05002

Tgt Ion: 63 Resp: 297635

Ion Ratio Lower Upper

63 100

112 4.0 3.1 4.7



#41

Bromodichloromethane

Concen: 56.727 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

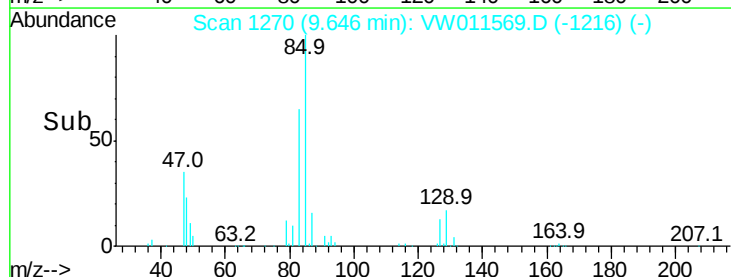
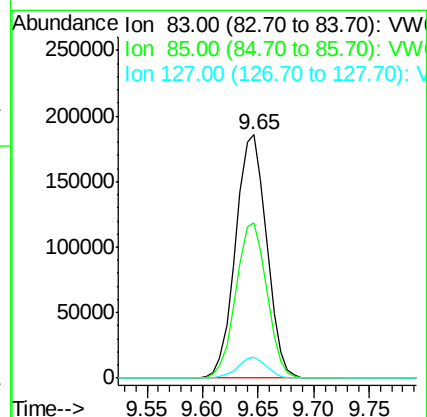
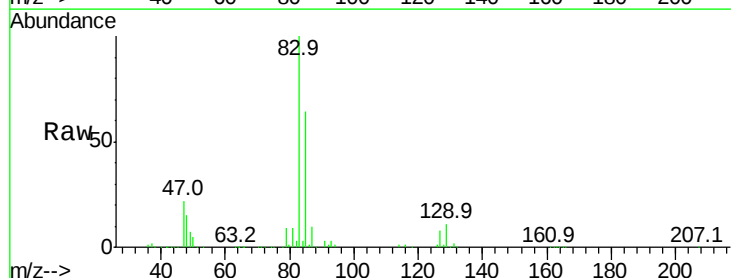
Tgt Ion: 83 Resp: 358105

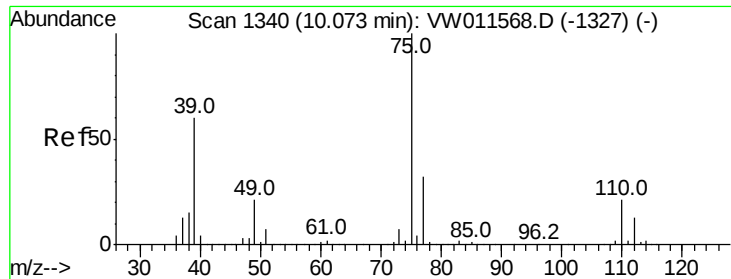
Ion Ratio Lower Upper

83 100

85 63.9 44.0 81.6

127 8.3 6.5 9.7





#42

cis-1,3-Dichloropropene

Concen: 57.691 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

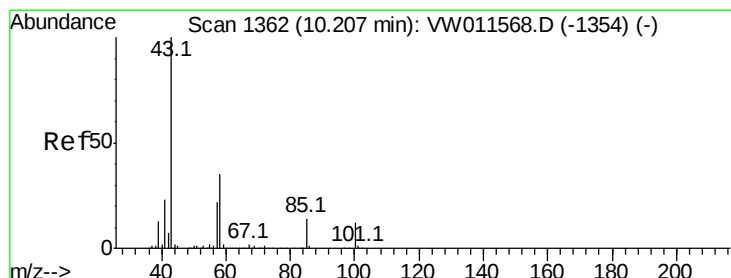
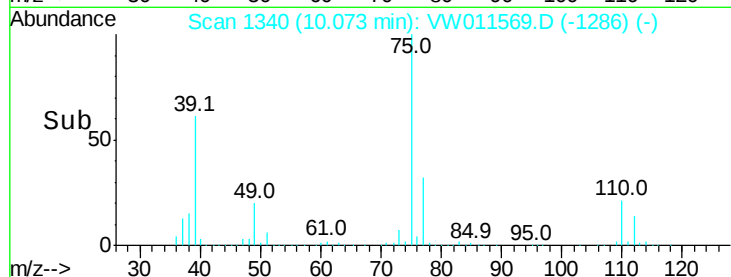
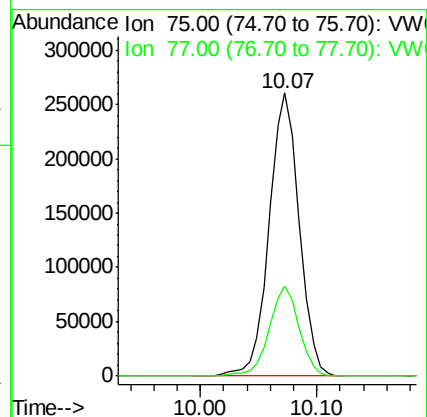
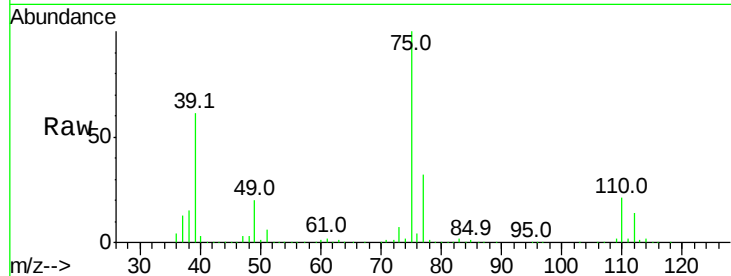
VSTD05002

Tgt Ion: 75 Resp: 467967

Ion Ratio Lower Upper

75 100

77 31.6 22.3 41.3



#43

4-Methyl-2-pentanone

Concen: 142.843 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

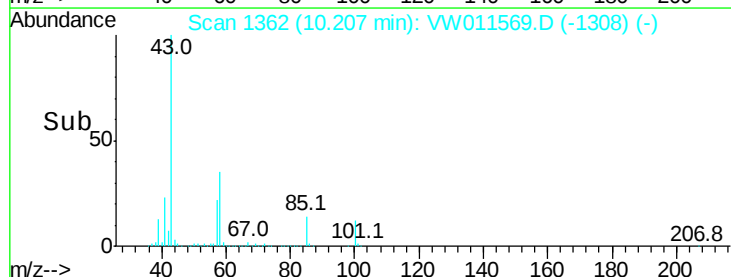
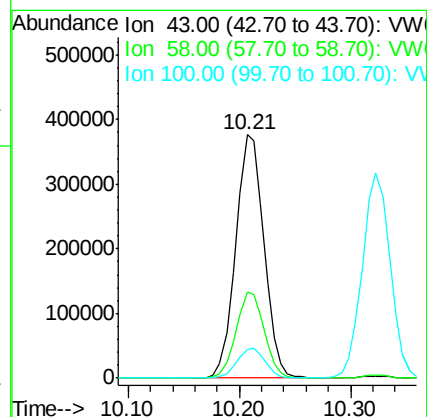
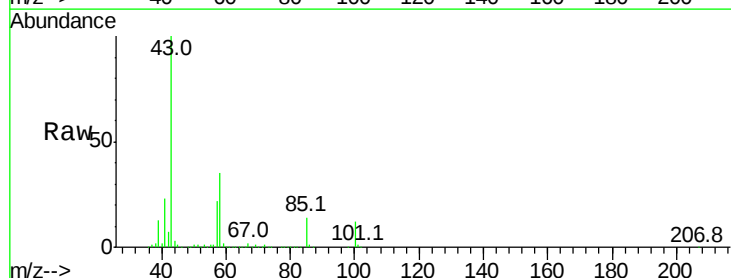
Tgt Ion: 43 Resp: 660248

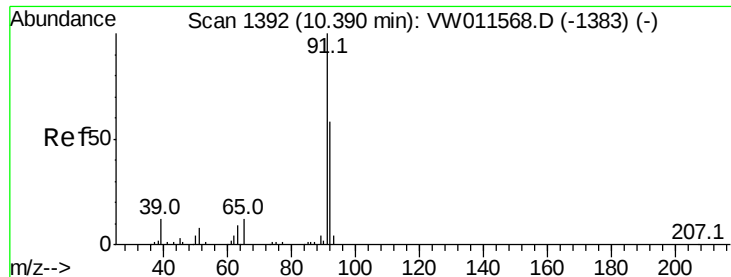
Ion Ratio Lower Upper

43 100

58 35.2 28.0 42.0

100 12.2 9.4 14.2





#44

Toluene

Concen: 56.020 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

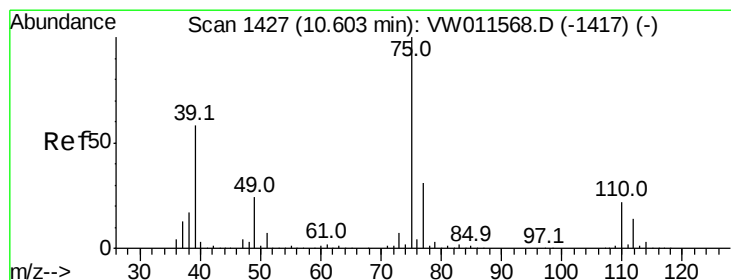
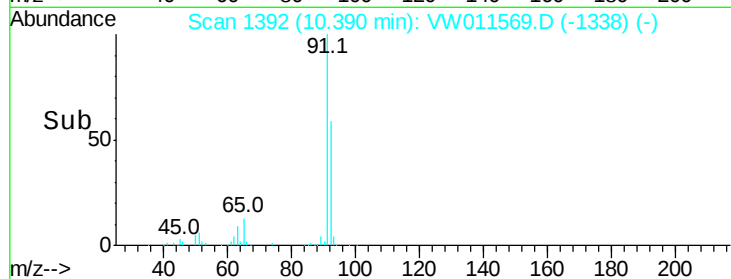
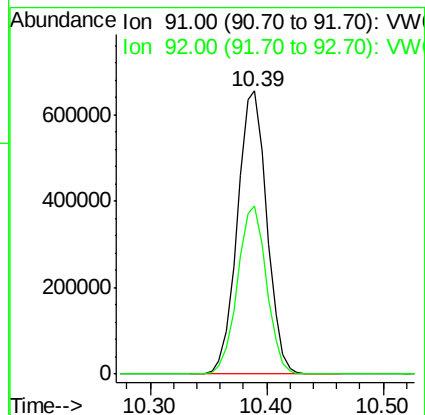
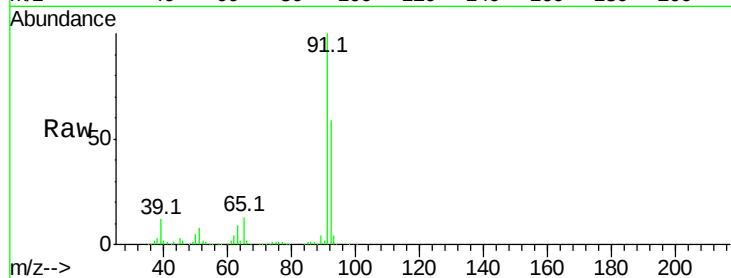
VSTD05002

Tgt Ion: 91 Resp: 1154748

Ion Ratio Lower Upper

91 100

92 59.2 40.9 76.0



#45

trans-1,3-Dichloropropene

Concen: 59.459 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW011569.D

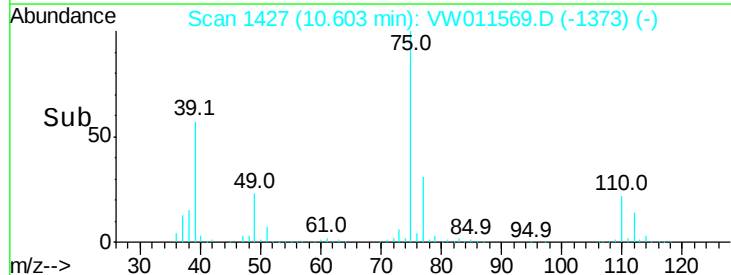
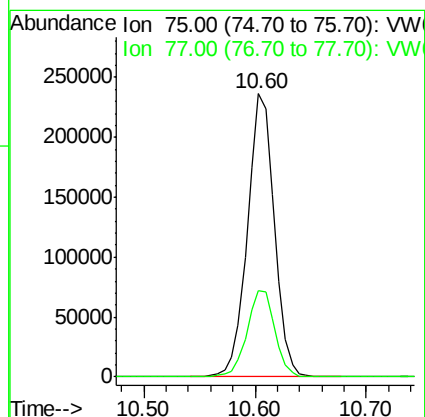
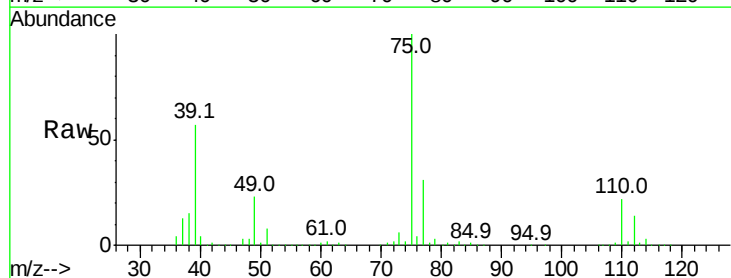
Acq: 30 Jul 2019 10:48

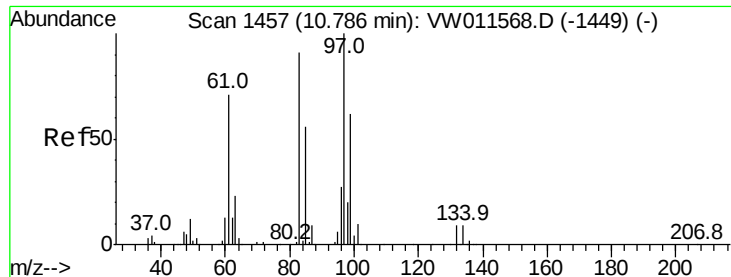
Tgt Ion: 75 Resp: 396374

Ion Ratio Lower Upper

75 100

77 30.5 21.6 40.0





#46

1,1,2-Trichloroethane

Concen: 58.741 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD05002

Tgt Ion: 97 Resp: 212293

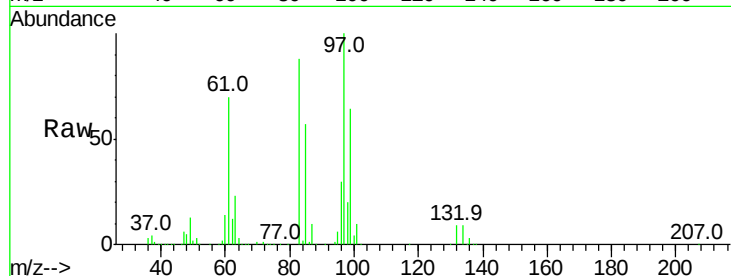
Ion Ratio Lower Upper

97 100

83 88.0 63.8 118.6

85 57.1 39.3 72.9

99 63.8 43.5 80.7

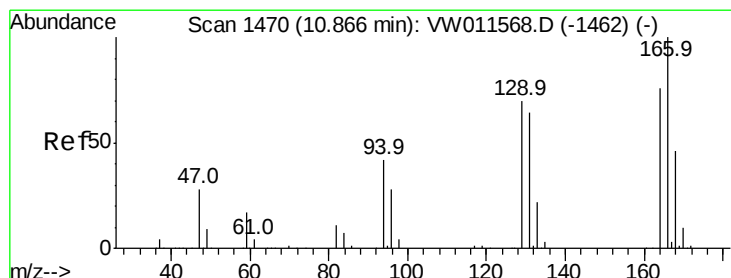
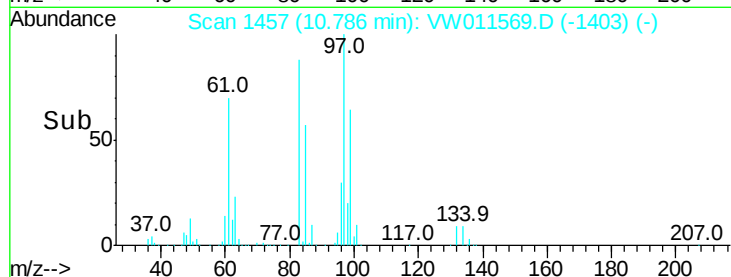
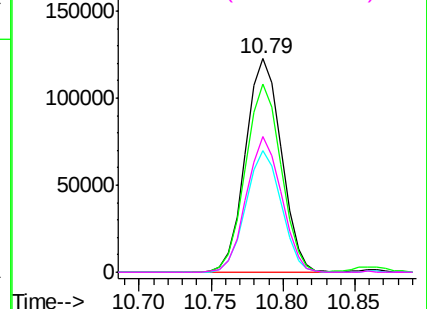


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 55.544 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Tgt Ion: 164 Resp: 217659

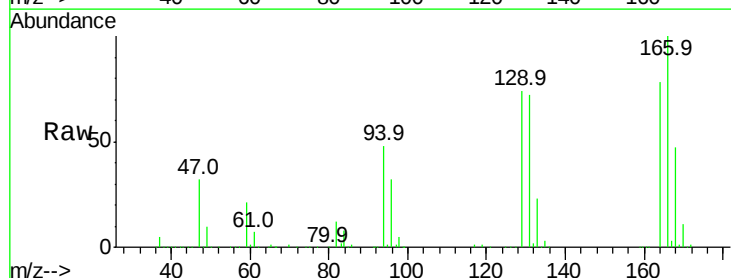
Ion Ratio Lower Upper

164 100

129 94.9 64.0 119.0

131 92.3 58.6 108.8

166 128.4 91.7 170.3

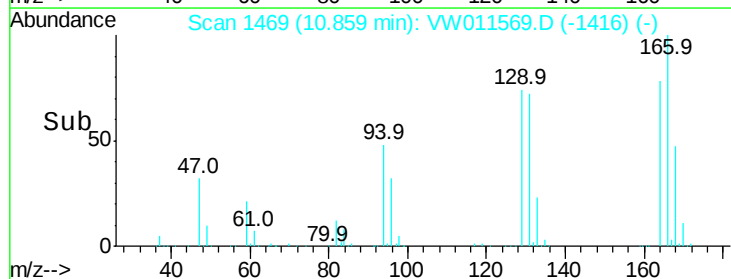
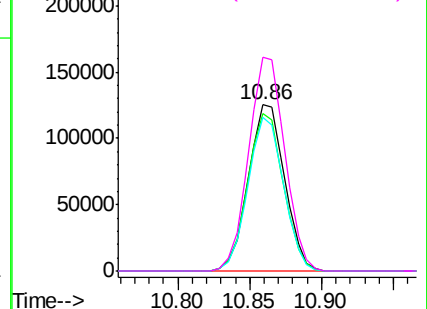


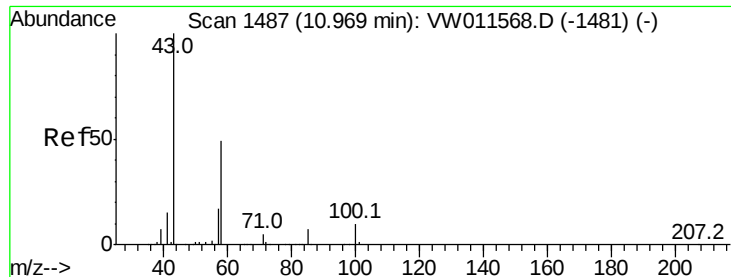
Abundance Ion 164.00 (163.70 to 164.70): V

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: 148.456 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampled :

VSTD05002

Tgt Ion: 43 Resp: 517961

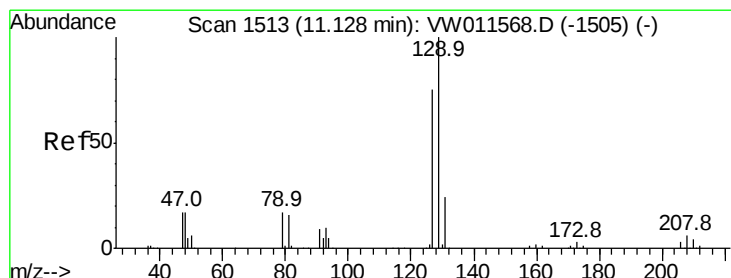
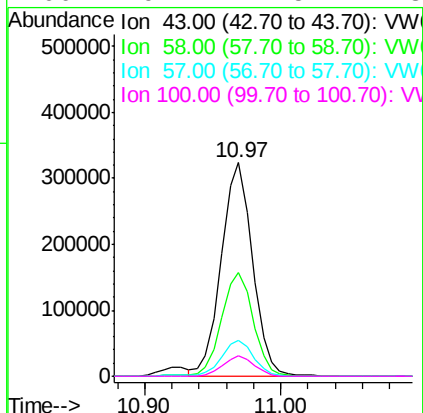
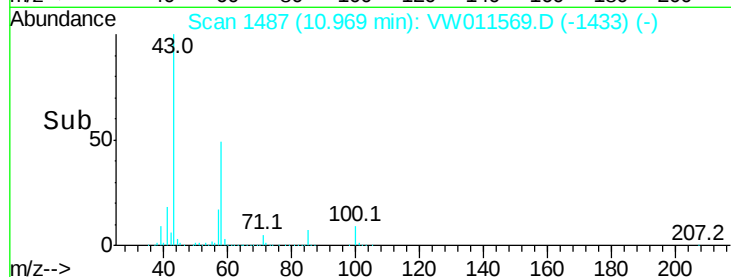
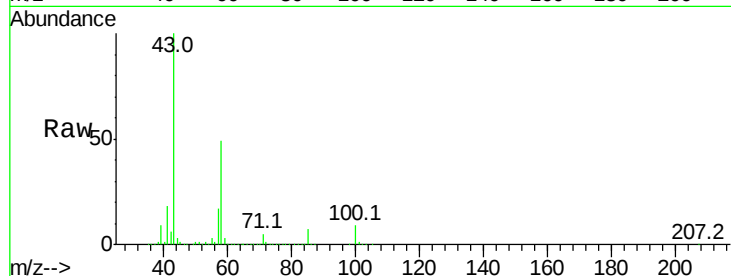
Ion Ratio Lower Upper

43 100

58 48.8 38.6 57.8

57 17.0 13.0 19.6

100 9.4 7.5 11.3



#50

Dibromochloromethane

Concen: 59.655 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW011569.D

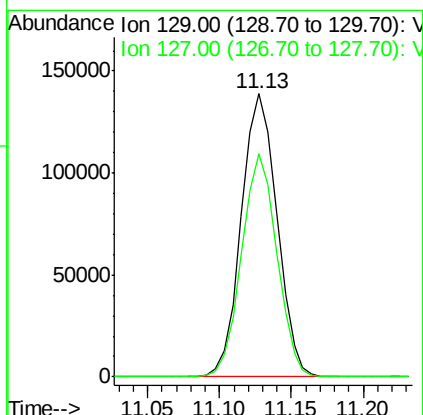
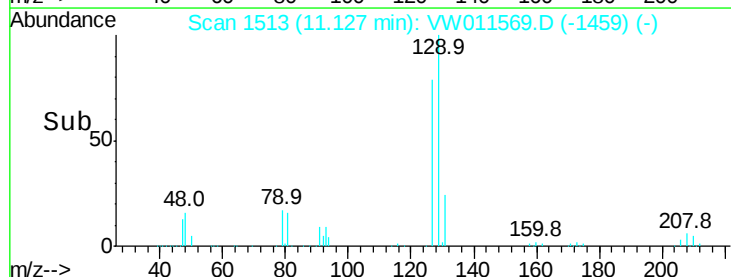
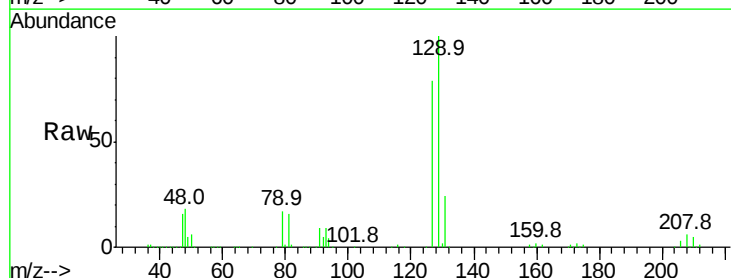
Acq: 30 Jul 2019 10:48

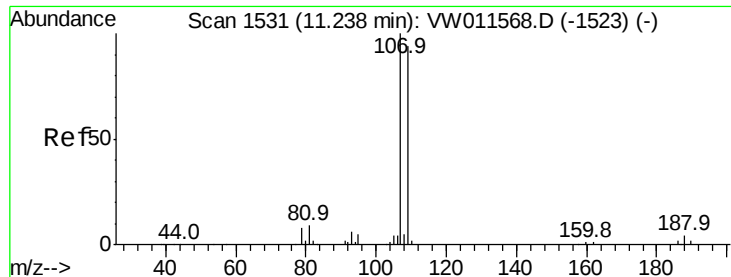
Tgt Ion: 129 Resp: 238653

Ion Ratio Lower Upper

129 100

127 78.7 52.6 97.6

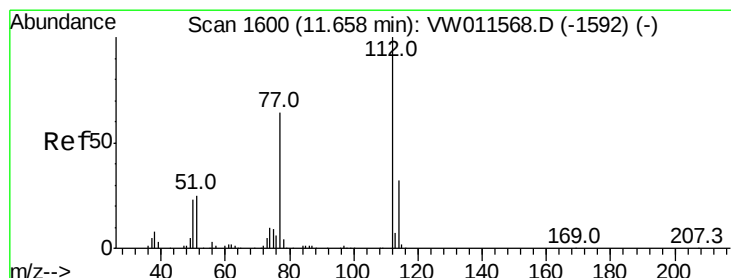
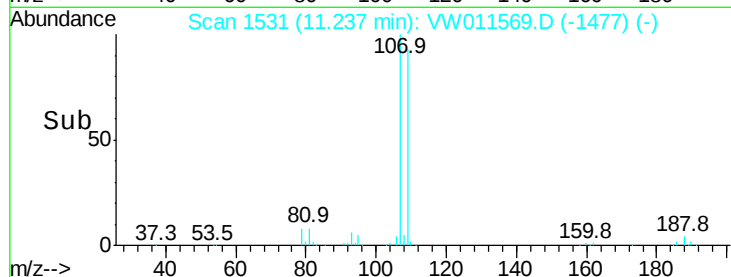
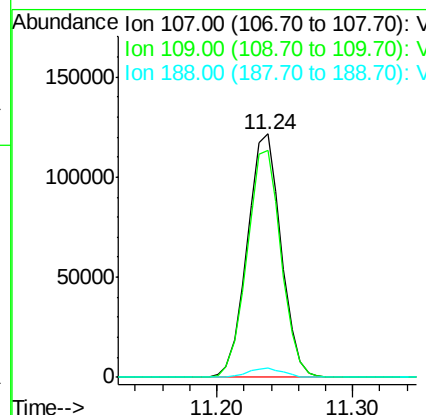
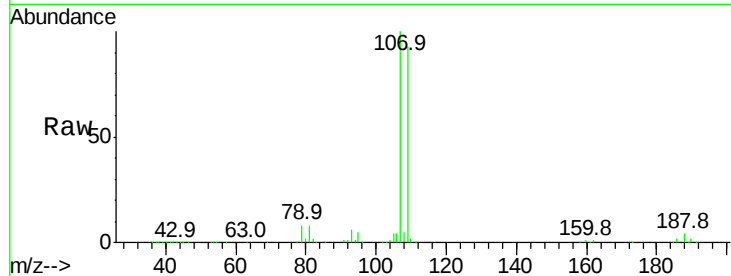




#51
1,2-Dibromoethane
Concen: 60.546 ug/L
RT: 11.24 min Scan# 1531
Delta R.T. -0.00 min
Lab File: VW011569.D
Acq: 30 Jul 2019 10:48

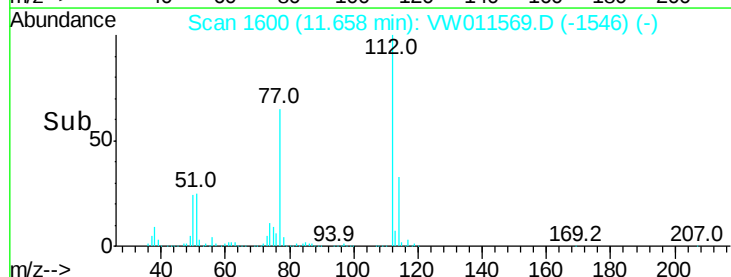
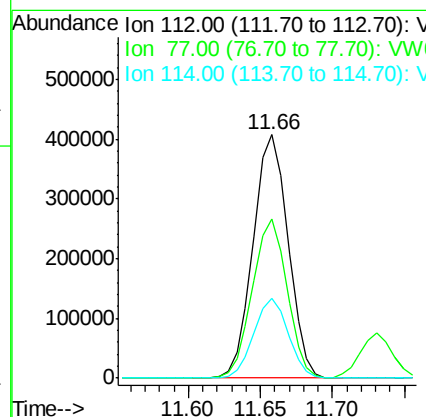
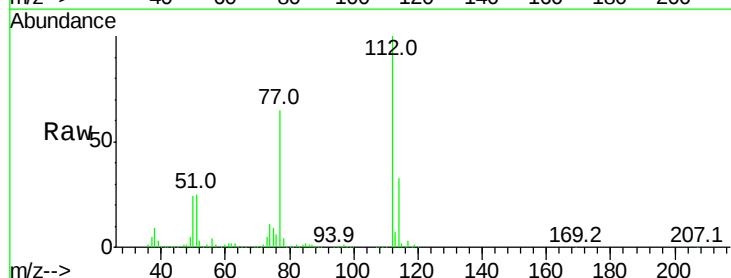
Instrument :
MSVOA_W
ClientSampleId :
VSTD05002

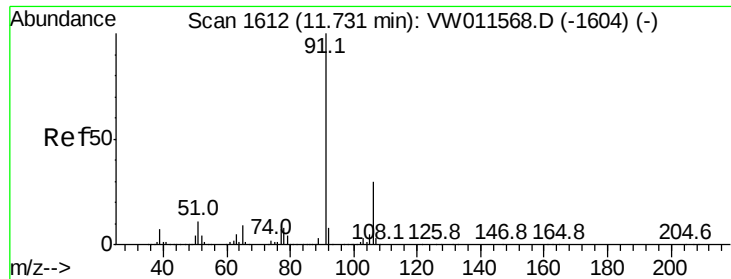
Tgt Ion:107 Resp: 211621
Ion Ratio Lower Upper
107 100
109 93.3 66.1 122.8
188 3.9 2.9 4.3



#52
Chlorobenzene
Concen: 55.033 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW011569.D
Acq: 30 Jul 2019 10:48

Tgt Ion:112 Resp: 684103
Ion Ratio Lower Upper
112 100
77 65.1 51.0 76.4
114 32.7 22.4 41.6





#53

Ethylbenzene

Concen: 56.011 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

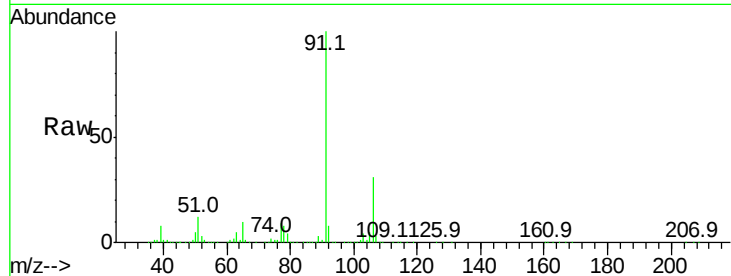
VSTD05002

Tgt Ion: 91 Resp: 1299385

Ion Ratio Lower Upper

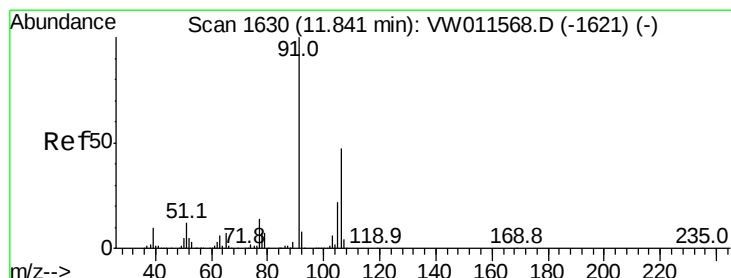
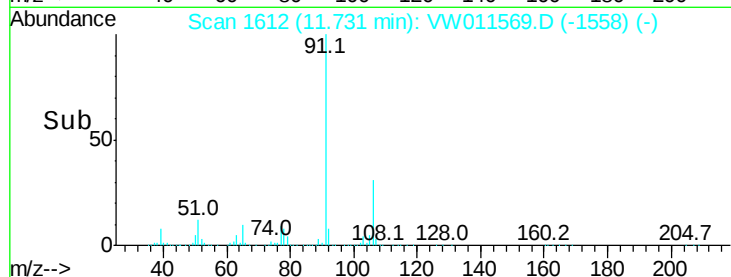
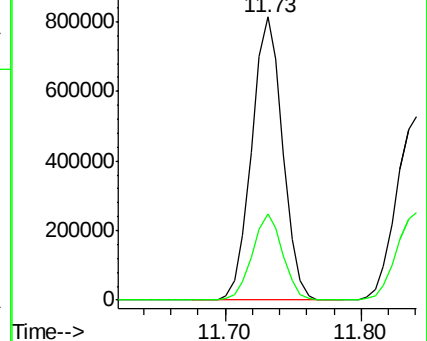
91 100

106 30.5 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 55.507 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW011569.D

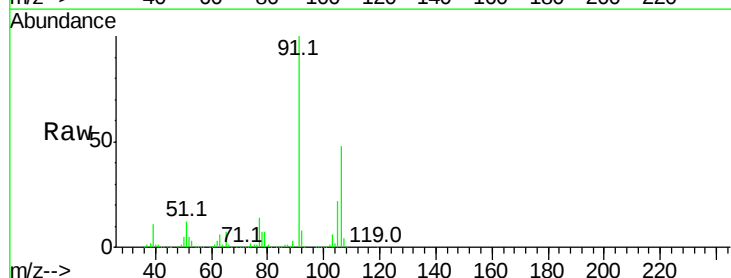
Acq: 30 Jul 2019 10:48

Tgt Ion: 106 Resp: 471598

Ion Ratio Lower Upper

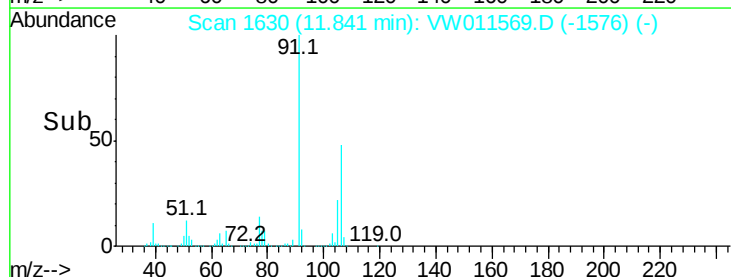
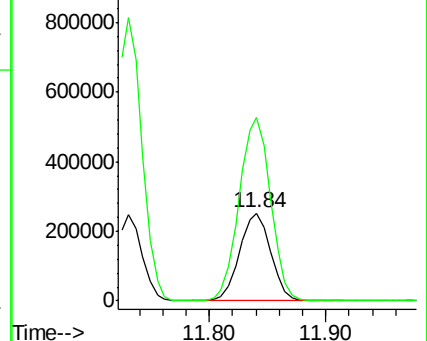
106 100

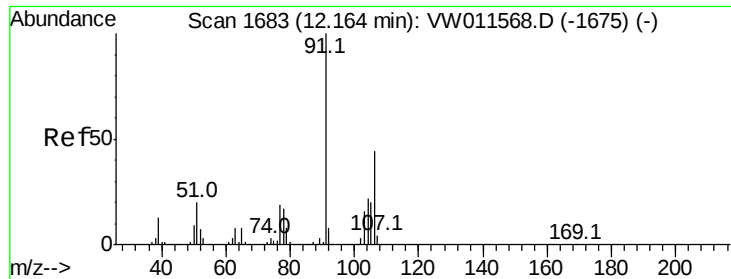
91 207.9 149.6 277.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

o-xylene

Concen: 55.871 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

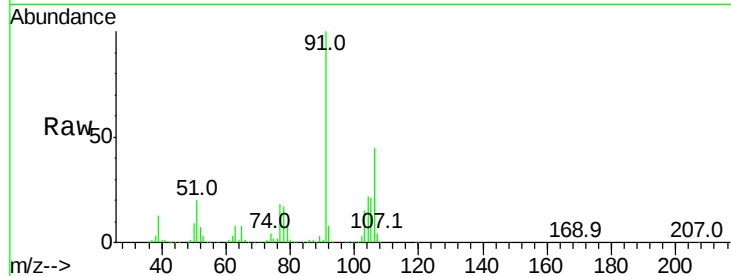
VSTD05002

Tgt Ion:106 Resp: 447408

Ion Ratio Lower Upper

106 100

91 223.6 158.3 293.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

600000

400000

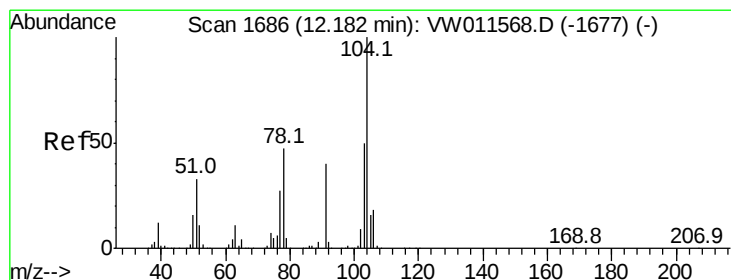
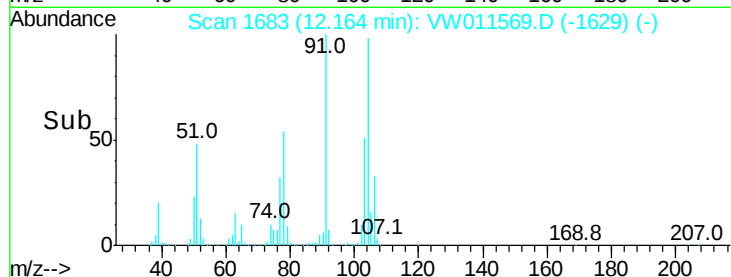
200000

0

12.16

Time-->

12.10 12.20



#56

Styrene

Concen: 57.370 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW011569.D

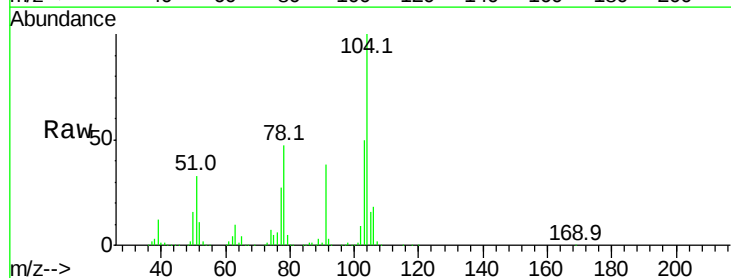
Acq: 30 Jul 2019 10:48

Tgt Ion:104 Resp: 772828

Ion Ratio Lower Upper

104 100

78 47.1 32.9 61.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW

500000

400000

300000

200000

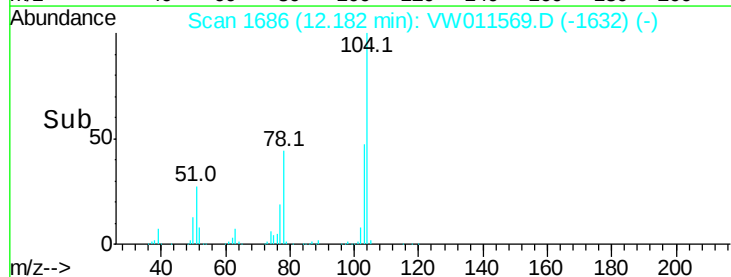
100000

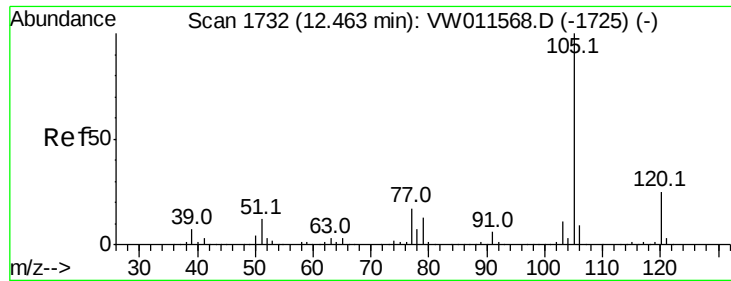
0

12.18

Time-->

12.10 12.20





#57

Isopropylbenzene

Concen: 56.577 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD05002

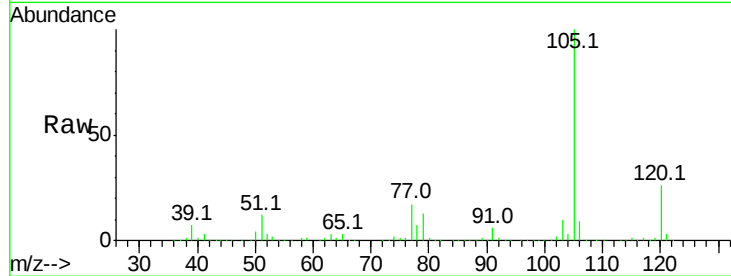
Tgt Ion:105 Resp: 1234062

Ion Ratio Lower Upper

105 100

120 25.7 20.6 30.8

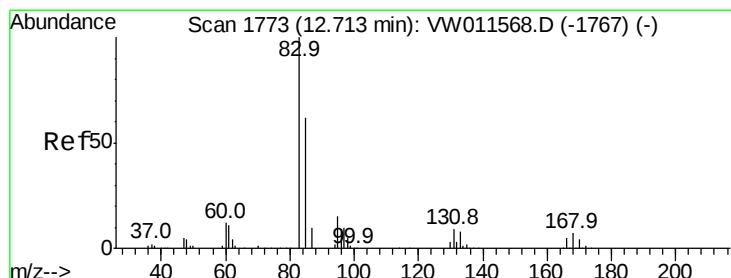
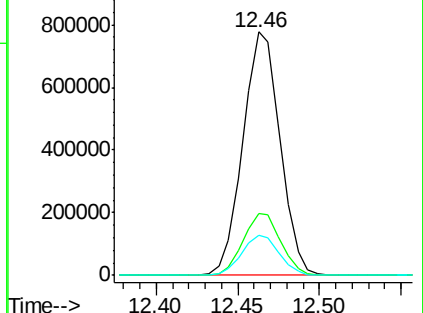
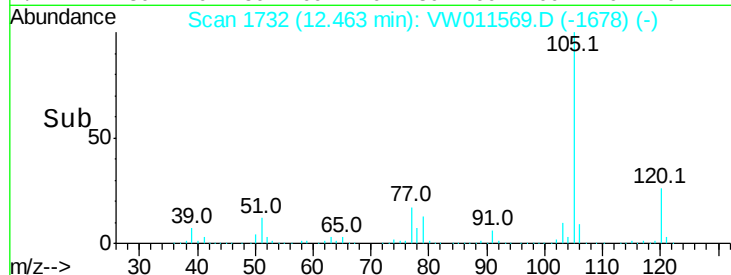
77 16.6 13.4 20.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 63.771 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

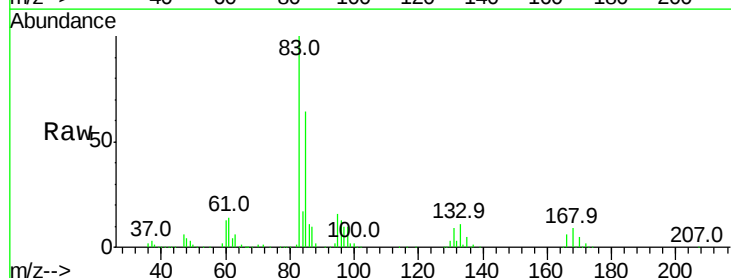
Tgt Ion: 83 Resp: 299384

Ion Ratio Lower Upper

83 100

85 64.4 43.5 80.9

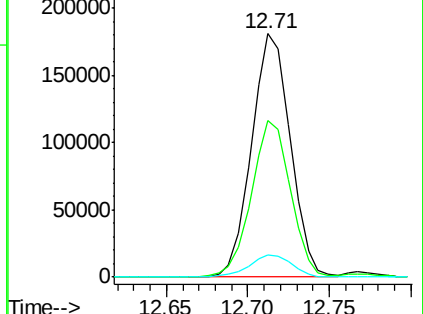
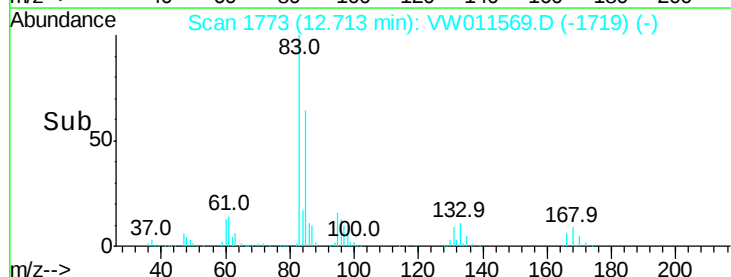
131 9.1 7.5 11.3

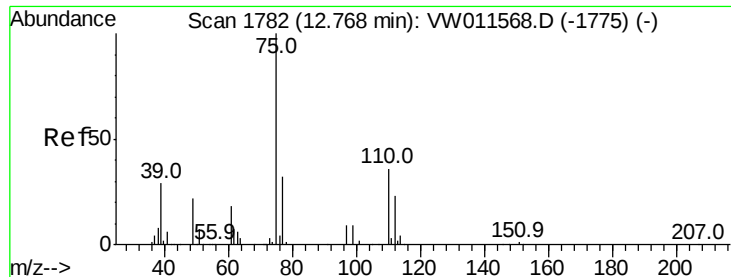


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 65.047 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

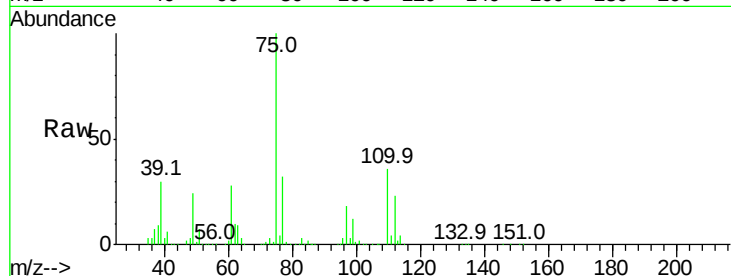
VSTD05002

Tgt Ion: 75 Resp: 233319

Ion Ratio Lower Upper

75 100

77 32.4 25.1 37.7



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

12.77

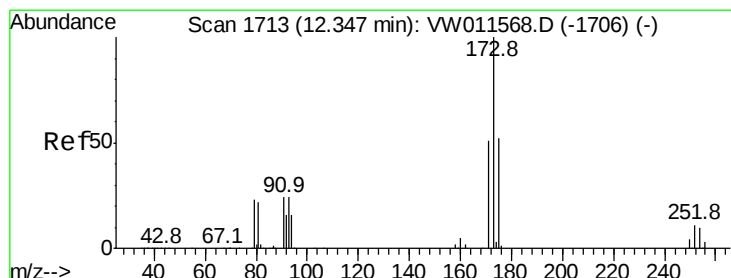
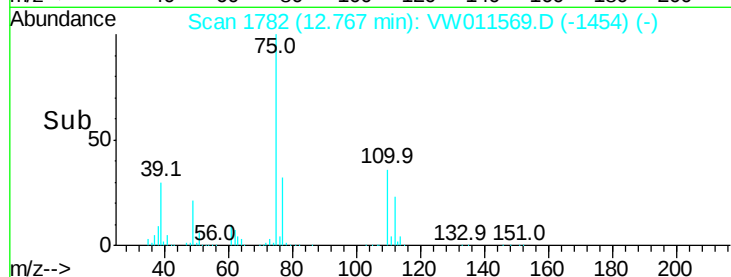
150000

100000

50000

0

Time-->



#62

Bromoform

Concen: 63.932 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

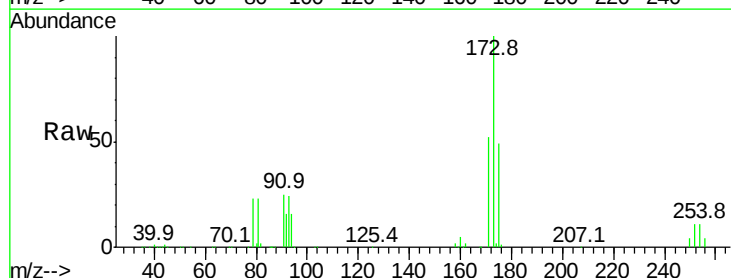
Tgt Ion: 173 Resp: 150401

Ion Ratio Lower Upper

173 100

175 49.0 39.4 59.0

254 10.7 9.0 13.6



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

120000

100000

80000

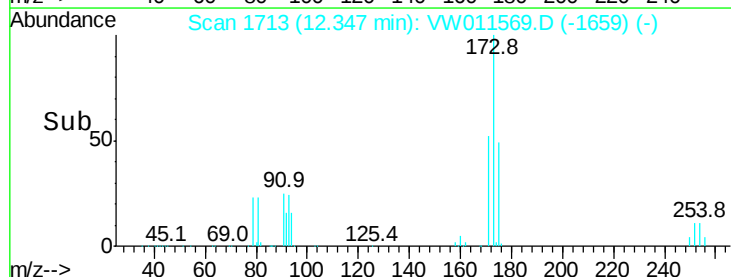
60000

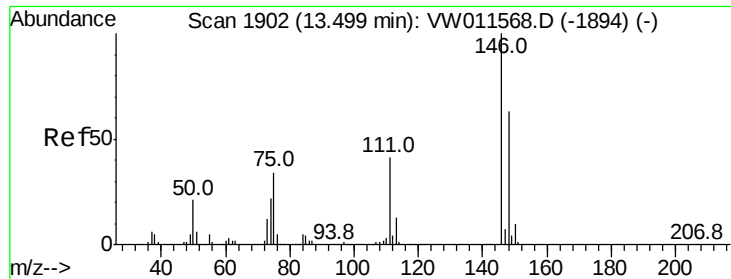
40000

20000

0

Time-->

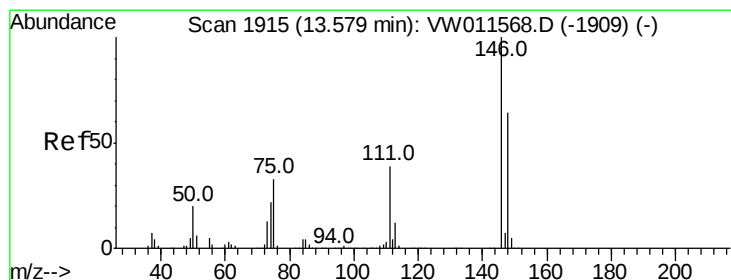
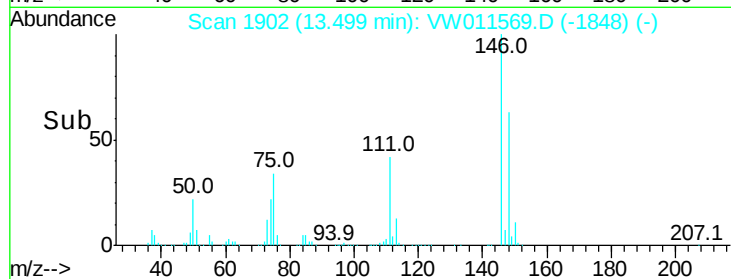
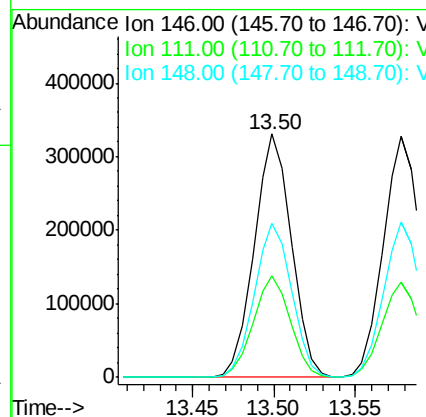
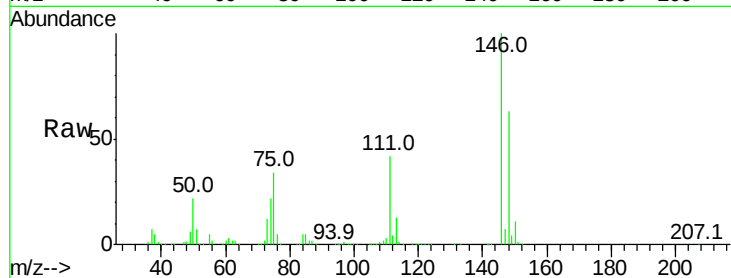




#63
 1,3-Dichlorobenzene
 Concen: 55.751 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW011569.D
 Acq: 30 Jul 2019 10:48

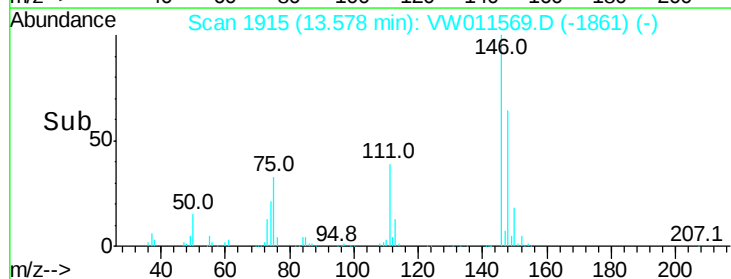
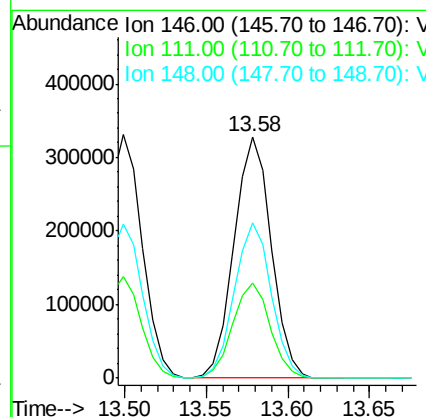
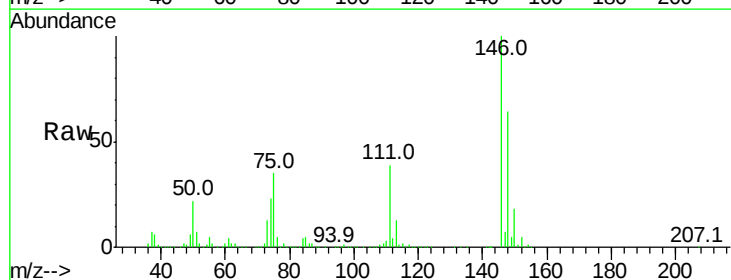
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05002

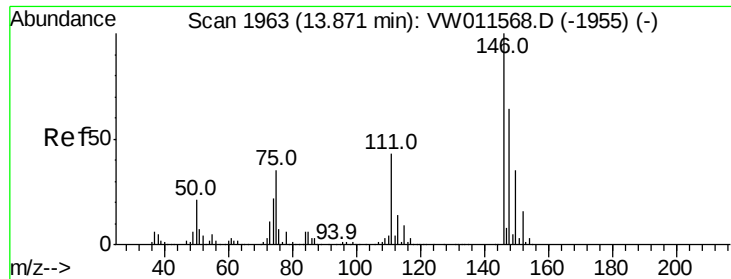
Tgt Ion:146 Resp: 524725
 Ion Ratio Lower Upper
 146 100
 111 41.7 28.6 53.2
 148 63.4 44.4 82.5



#64
 1,4-Dichlorobenzene
 Concen: 54.579 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW011569.D
 Acq: 30 Jul 2019 10:48

Tgt Ion:146 Resp: 521758
 Ion Ratio Lower Upper
 146 100
 111 39.1 27.4 51.0
 148 64.3 44.4 82.5

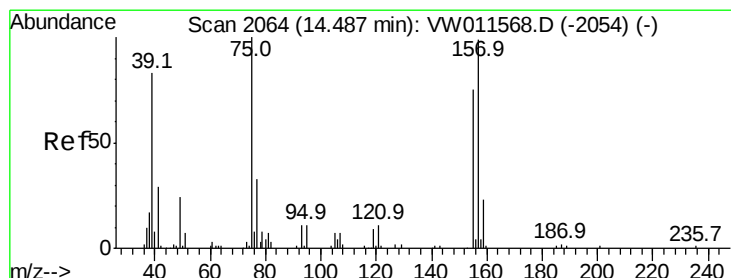
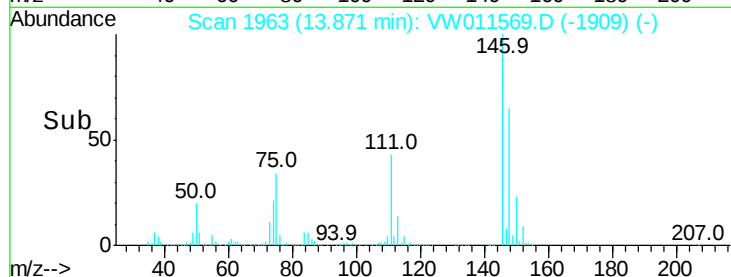
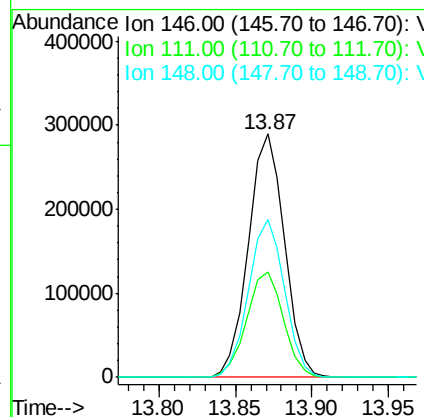
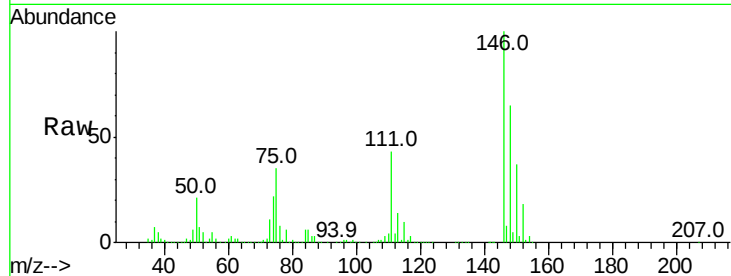




#65
 1,2-Dichlorobenzene
 Concen: 54.960 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW011569.D
 Acq: 30 Jul 2019 10:48

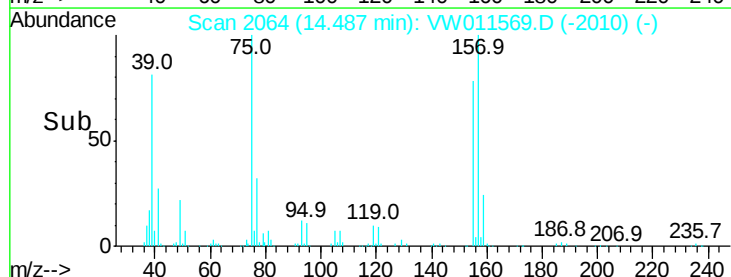
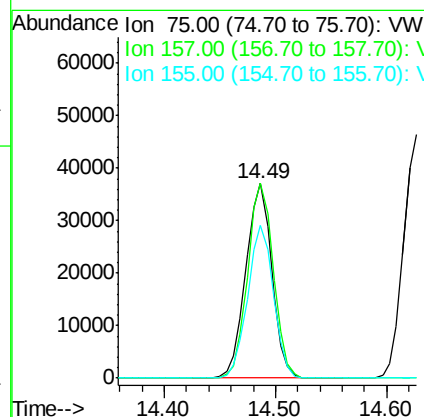
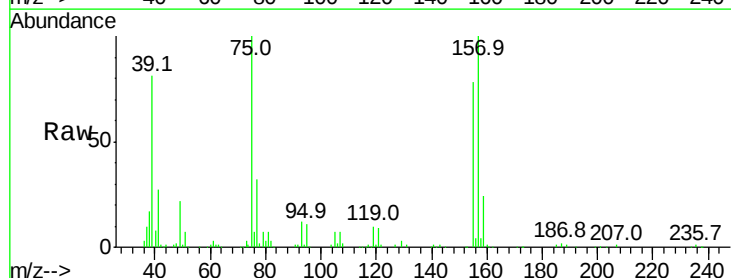
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05002

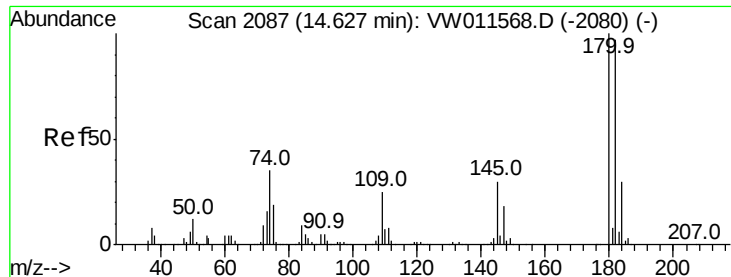
Tgt Ion:146 Resp: 475964
 Ion Ratio Lower Upper
 146 100
 111 43.2 34.6 51.8
 148 64.6 50.9 76.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 72.698 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW011569.D
 Acq: 30 Jul 2019 10:48

Tgt Ion: 75 Resp: 60010
 Ion Ratio Lower Upper
 75 100
 157 99.8 79.3 118.9
 155 78.4 59.9 89.9

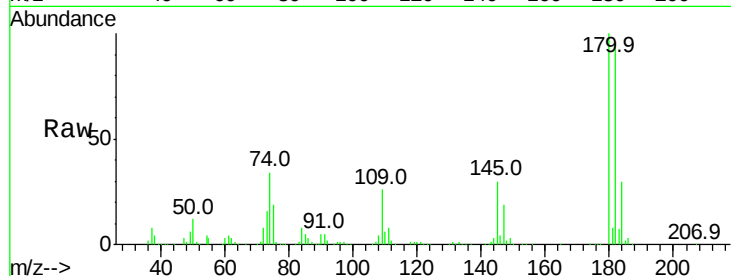




#67
 1,3,5-Trichlorobenzene
 Concen: 55.435 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW011569.D
 Acq: 30 Jul 2019 10:48

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05002

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.9	113.9
184	30.0	24.2	36.2
145	29.0	23.0	34.6

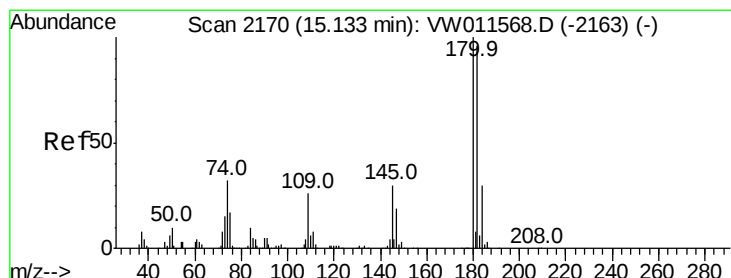
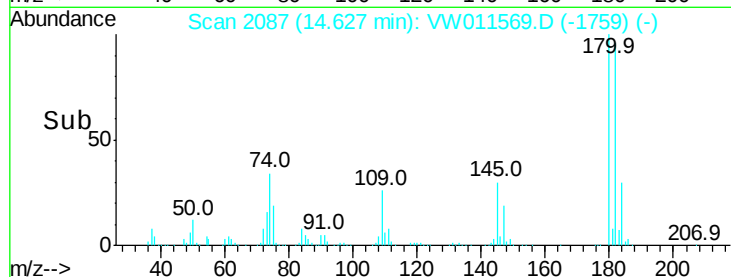
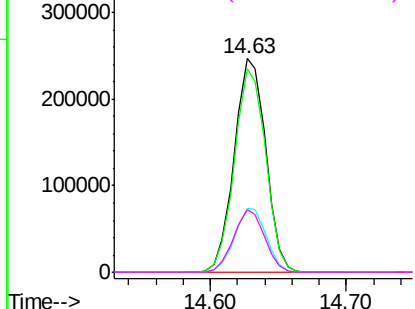


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

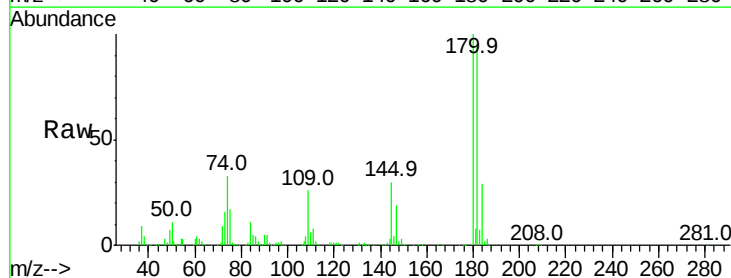
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 56.277 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW011569.D
 Acq: 30 Jul 2019 10:48

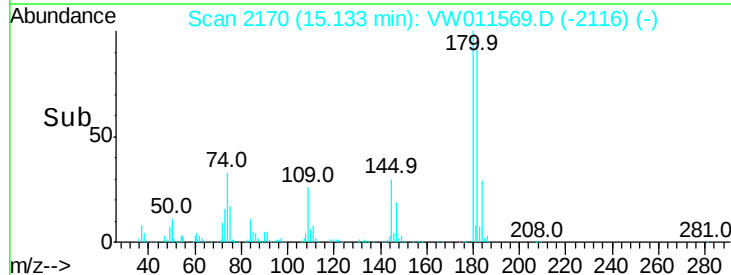
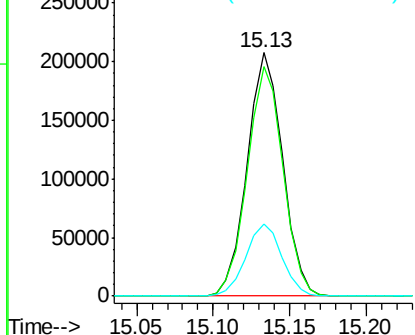
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	77.3	115.9
145	30.1	24.3	36.5

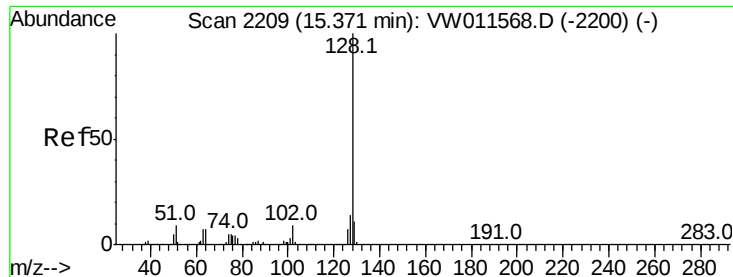


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 64.048 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD05002

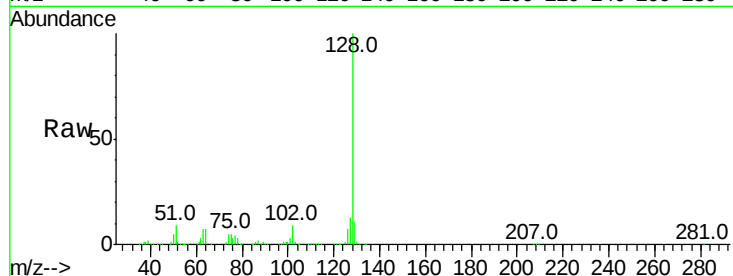
Tgt Ion:128 Resp: 775799

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

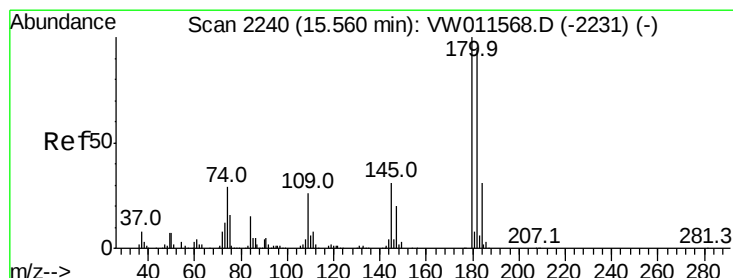
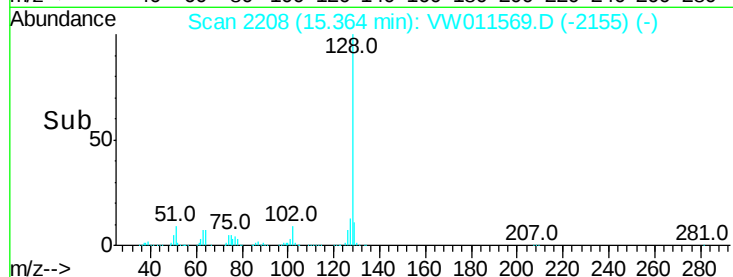
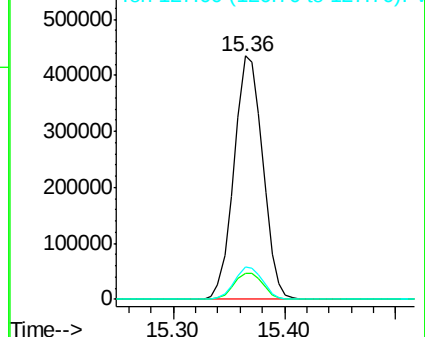
127 13.3 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 57.551 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW011569.D

Acq: 30 Jul 2019 10:48

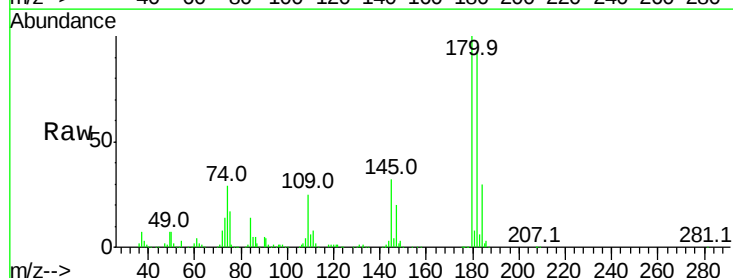
Tgt Ion:180 Resp: 310244

Ion Ratio Lower Upper

180 100

182 94.3 74.9 112.3

145 31.3 25.6 38.4



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

