

Data File : VW013853.D
Acq On : 31 Oct 2019 12:22
Operator : SY/VA
Sample : VSTD10016
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD10002

Quant Time: Oct 31 12:47:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM103119S.M
Quant Title : VOC Analysis
QLast Update : Thu Oct 31 12:00:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	312002	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	312777	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	189621	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	441496	115.33	ug/L	0.00
7) Chloroethane-d5	2.89	69	365836	102.38	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.03	63	914517	108.17	ug/L	0.00
20) 2-Butanone-d5	7.07	46	350465	255.98	ug/L	0.00
24) Chloroform-d	7.65	84	911875	104.45	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	492533	107.88	ug/L	0.00
29) Benzene-d6	8.27	84	1923861	102.38	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	581973	103.69	ug/L	0.00
37) Toluene-d8	10.32	98	1858744	107.25	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	283895	112.13	ug/L	0.00
39) 2-Hexanone-d5	10.92	63	304121	283.46	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	532757	115.90	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	693636	103.51	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	358233	102.081	ug/L	97
3) Chloromethane	2.22	50	415362	109.341	ug/L	99
5) Vinyl chloride	2.37	62	514937	108.468	ug/L	97
6) Bromomethane	2.78	94	327061	95.345	ug/L	100
8) Chloroethane	2.92	64	301864	94.092	ug/L	99
9) Trichlorofluoromethane	3.25	101	235912	73.729	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	506827	100.592	ug/L	98
12) 1,1-Dichloroethene	4.04	96	528816	106.646	ug/L	91
13) Acetone	4.12	43	258827	170.328	ug/L	98
14) Carbon disulfide	4.39	76	1551701	109.364	ug/L	98
15) Methyl Acetate	4.67	43	298296	120.139	ug/L	100
16) Methylene chloride	4.92	84	531823	89.016	ug/L	97
17) Methyl tert-butyl Ether	5.42	73	637729	92.951	ug/L	# 89
18) trans-1,2-Dichloroethene	5.42	96	542646	98.998	ug/L	97
19) 1,1-Dichloroethane	6.21	63	919792	99.134	ug/L	99
21) 2-Butanone	7.17	43	419932	217.651	ug/L	100
22) cis-1,2-Dichloroethene	7.17	96	590298	100.329	ug/L	99
23) Bromochloromethane	7.51	128	272251	102.376	ug/L	97
25) Chloroform	7.67	83	908610	97.489	ug/L	100
27) 1,2-Dichloroethane	8.40	62	610897	102.268	ug/L	99
30) Cyclohexane	7.95	56	919053	100.298	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	692235	94.890	ug/L	99
32) Carbon tetrachloride	8.07	117	712840	100.347	ug/L	99
34) Benzene	8.32	78	2125731	94.721	ug/L	100
35) Trichloroethene	9.09	95	562327	97.661	ug/L	99
36) Methylcyclohexane	9.34	83	1007751	99.297	ug/L	100
40) 1,2-Dichloropropane	9.37	63	524278	95.544	ug/L	100
41) Bromodichloromethane	9.64	83	685325	101.930	ug/L	97
42) cis-1,3-Dichloropropene	10.07	75	899622	103.842	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	856953	228.900	ug/L	98

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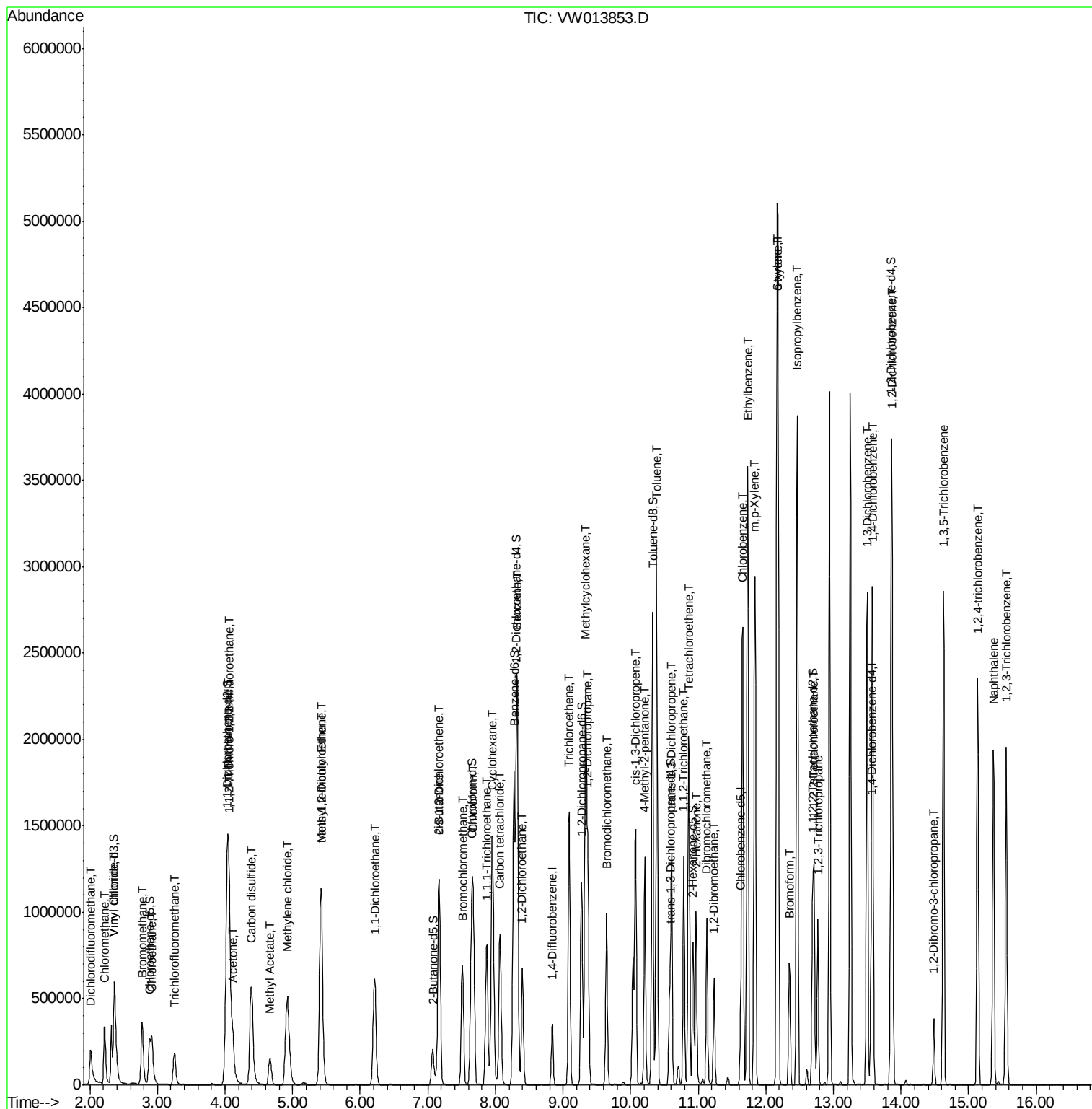
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.38	91	2355016	97.672	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	744963	106.527	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	432392	102.172	ug/L	99
47) Tetrachloroethene	10.86	164	512806	97.294	ug/L	97
49) 2-Hexanone	10.97	43	625322	235.438	ug/L	99
50) Dibromochloromethane	11.13	129	527407	105.598	ug/L	97
51) 1,2-Dibromoethane	11.23	107	432655	105.132	ug/L	96
52) Chlorobenzene	11.66	112	1513146	98.083	ug/L	99
53) Ethylbenzene	11.73	91	2600921	97.630	ug/L	97
54) m,p-Xylene	11.84	106	1017002	98.788	ug/L	97
55) o-xylene	12.16	106	979979	100.310	ug/L	99
56) Styrene	12.18	104	1691501	101.212	ug/L	98
57) Isopropylbenzene	12.46	105	2623896	100.130	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	551055	111.096	ug/L	96
59) 1,2,3-Trichloropropane	12.77	75	410841	111.072	ug/L	98
62) Bromoform	12.35	173	349997	107.702	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	1260236	97.946	ug/L	100
64) 1,4-Dichlorobenzene	13.58	146	1247444	96.481	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	1141468	97.914	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	95771	119.521	ug/L	98
67) 1,3,5-Trichlorobenzene	14.63	180	965981	100.988	ug/L	100
68) 1,2,4-trichlorobenzene	15.13	180	839471	103.376	ug/L	99
69) Naphthalene	15.36	128	1730058	117.574	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	744284	102.346	ug/L	100

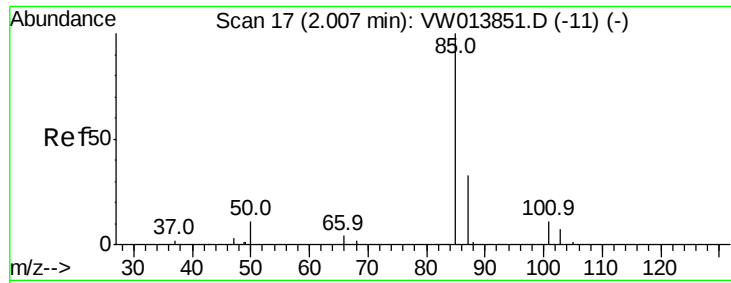
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 102.081 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

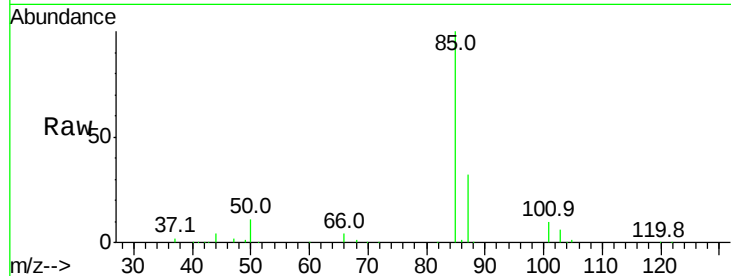
VSTD10002

Tgt Ion: 85 Resp: 358233

Ion Ratio Lower Upper

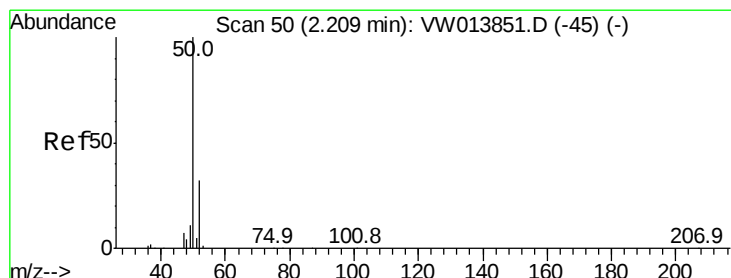
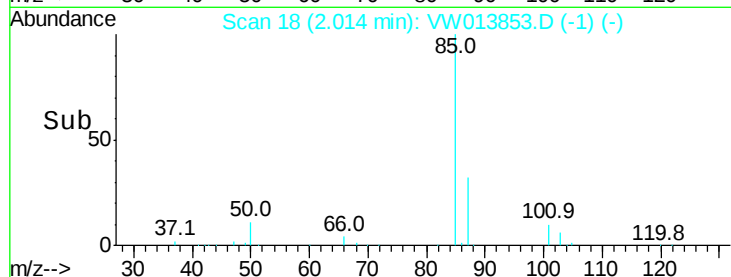
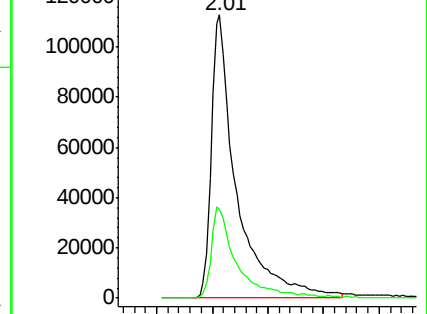
85 100

87 30.7 22.5 41.7



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 109.341 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW013853.D

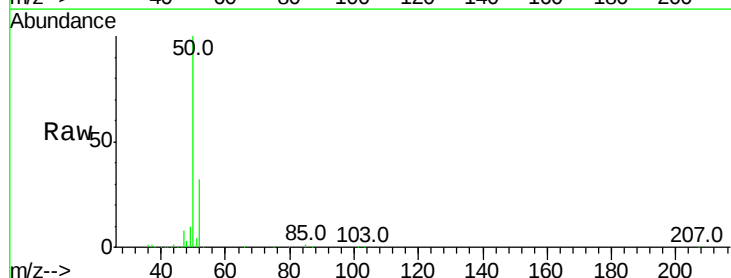
Acq: 31 Oct 2019 12:22

Tgt Ion: 50 Resp: 415362

Ion Ratio Lower Upper

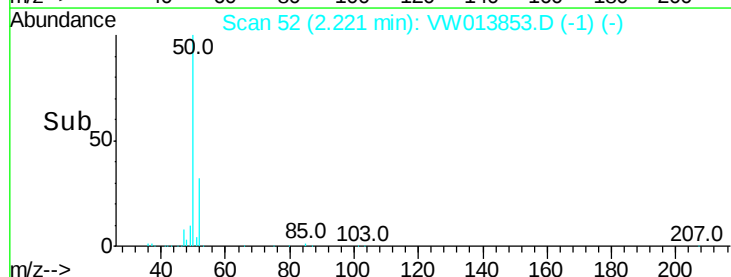
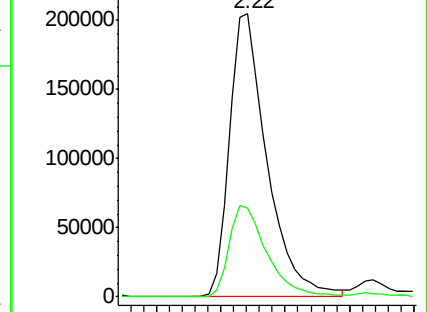
50 100

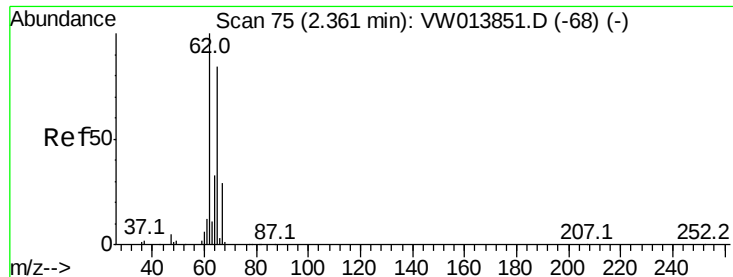
52 31.6 22.5 41.9



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 108.468 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.01 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

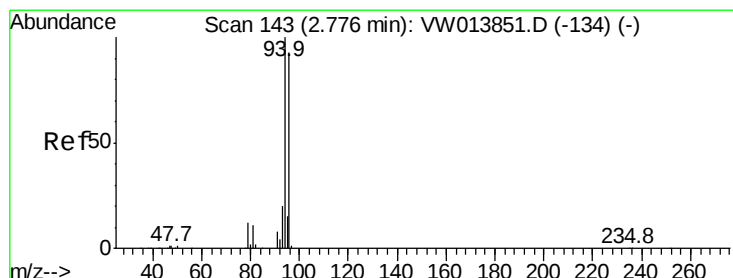
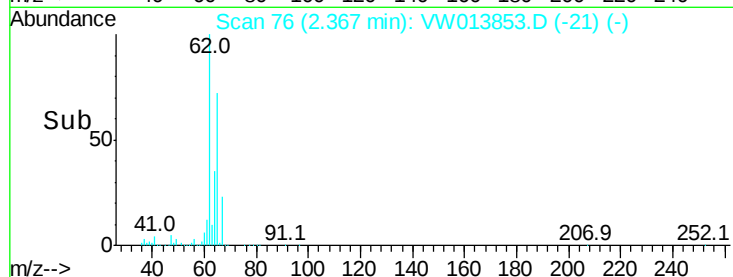
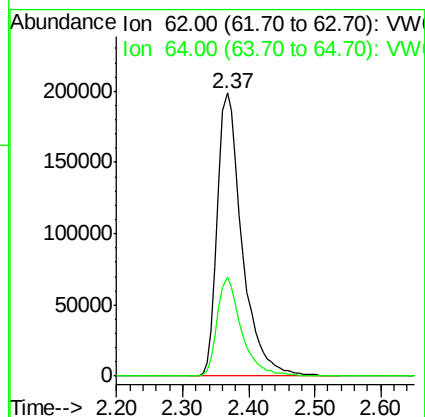
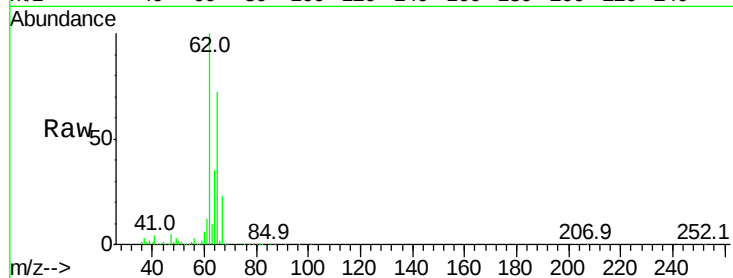
VSTD10002

Tgt Ion: 62 Resp: 514937

Ion Ratio Lower Upper

62 100

64 34.9 23.3 43.3



#6

Bromomethane

Concen: 95.345 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW013853.D

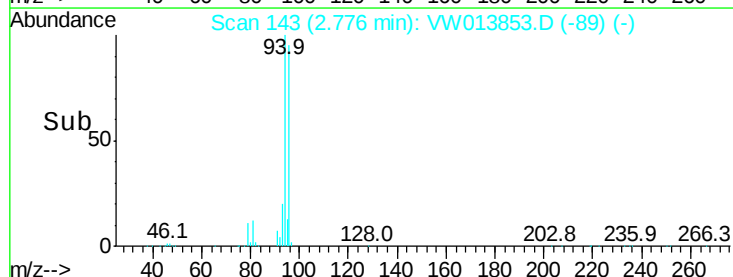
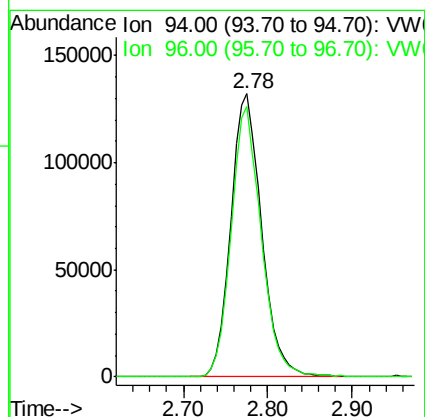
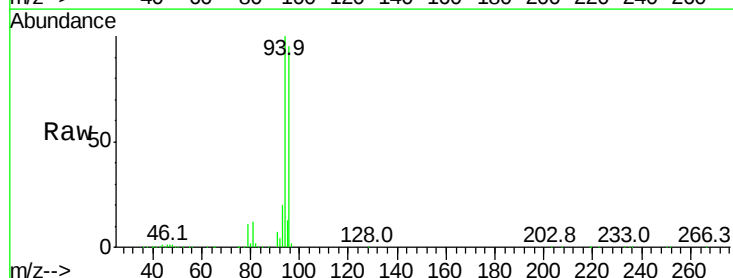
Acq: 31 Oct 2019 12:22

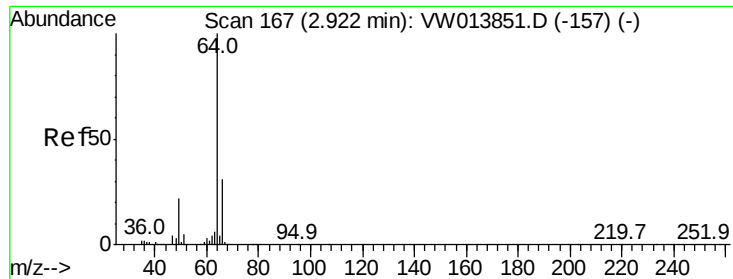
Tgt Ion: 94 Resp: 327061

Ion Ratio Lower Upper

94 100

96 93.3 9.3 177.3





#8

Chloroethane

Concen: 94.092 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

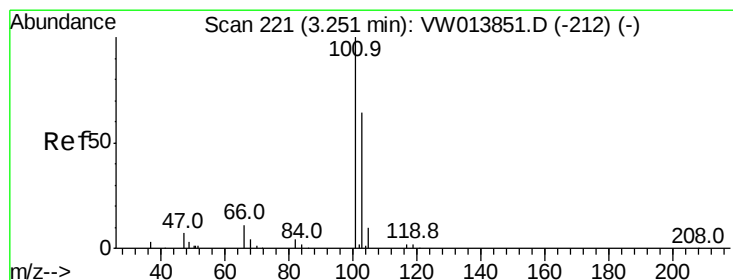
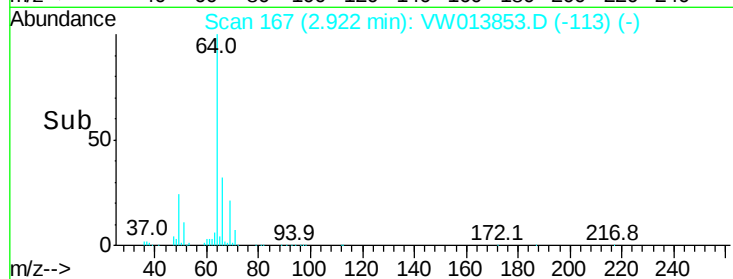
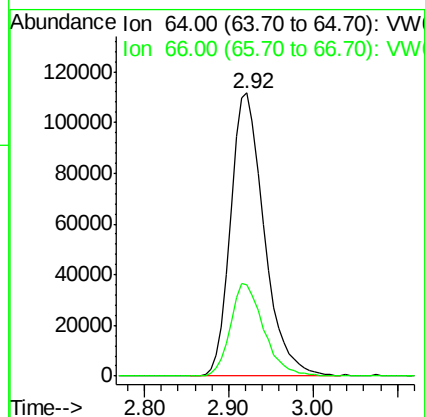
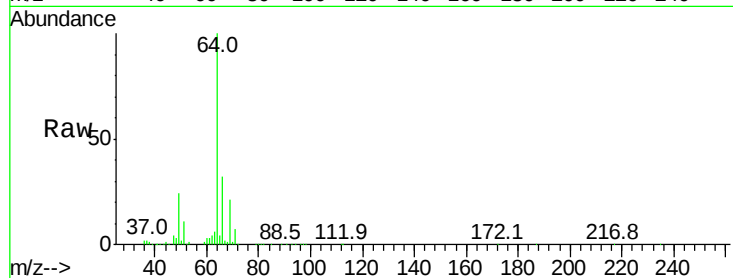
VSTD10002

Tgt Ion: 64 Resp: 301864

Ion Ratio Lower Upper

64 100

66 32.2 22.0 41.0



#9

Trichlorofluoromethane

Concen: 73.729 ug/L

RT: 3.25 min Scan# 221

Delta R.T. 0.00 min

Lab File: VW013853.D

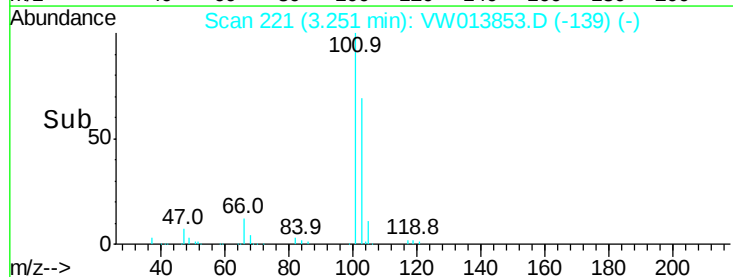
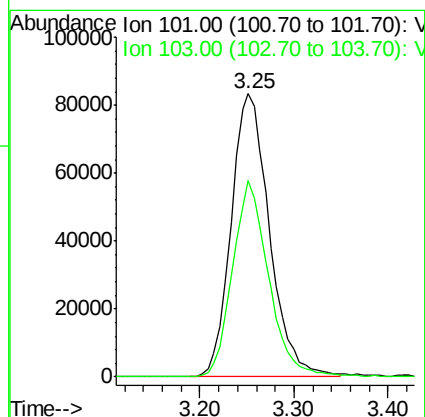
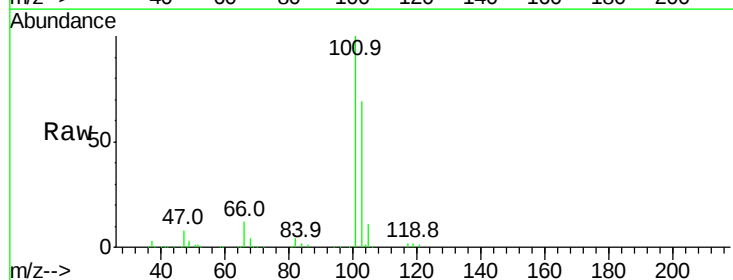
Acq: 31 Oct 2019 12:22

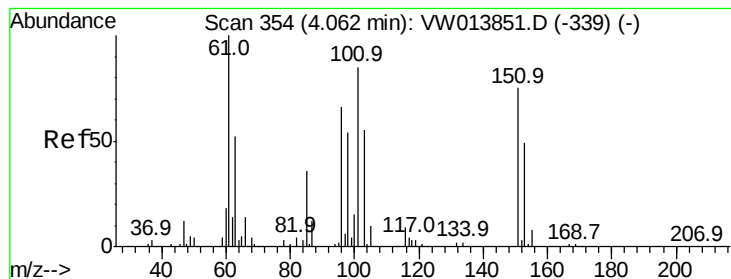
Tgt Ion: 101 Resp: 235912

Ion Ratio Lower Upper

101 100

103 65.2 45.8 85.0





#11

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

Concen: 100.592 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD10002

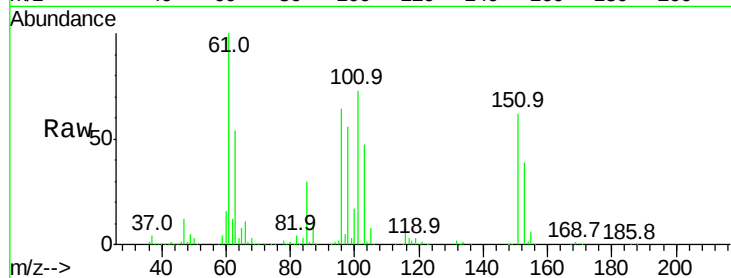
Tgt Ion:101 Resp: 506827

Ion Ratio Lower Upper

101 100

85 40.2 32.6 48.8

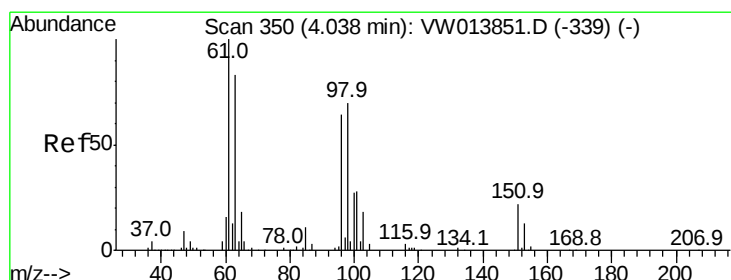
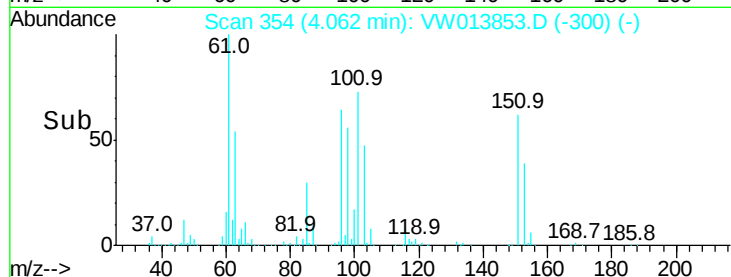
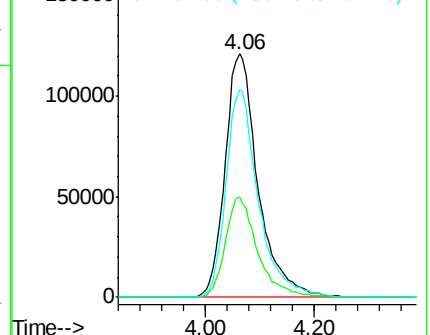
151 82.4 68.2 102.4



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: 106.646 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

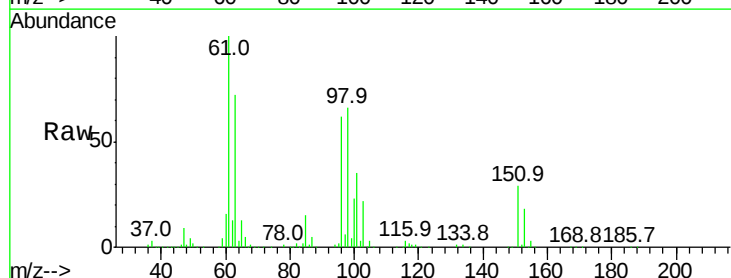
Tgt Ion: 96 Resp: 528816

Ion Ratio Lower Upper

96 100

61 161.1 110.4 205.0

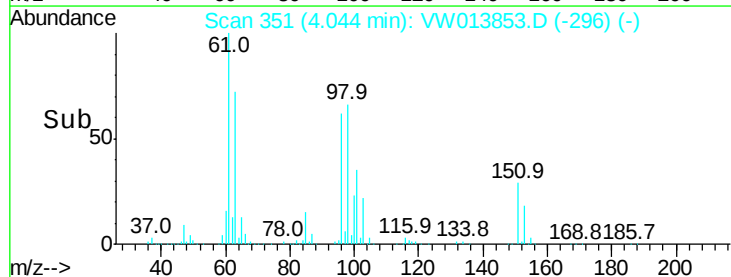
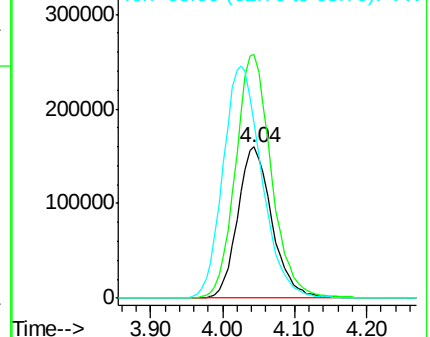
63 116.1 95.5 177.3

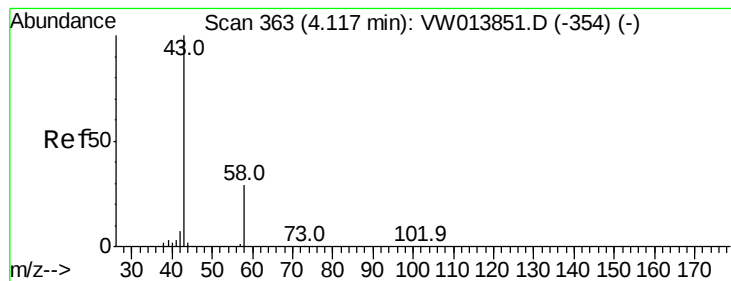


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 170.328 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

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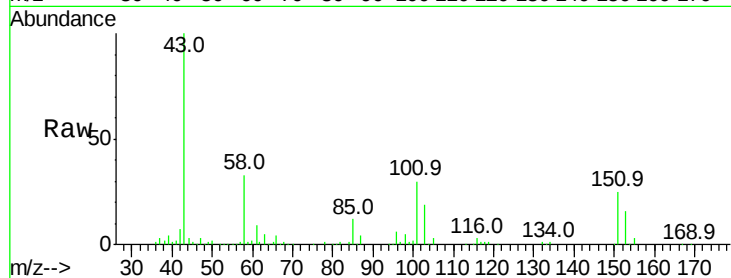
VSTD10002

Tgt Ion: 43 Resp: 258827

Ion Ratio Lower Upper

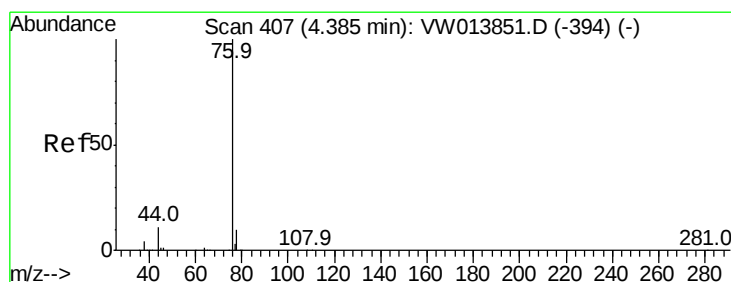
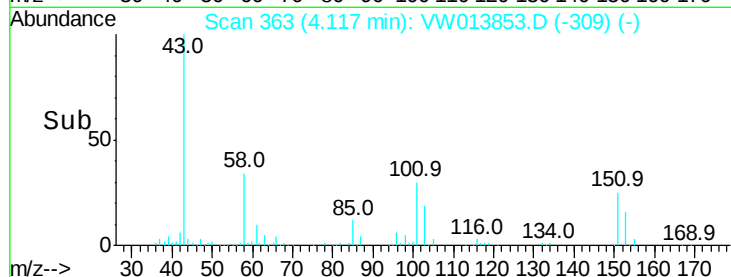
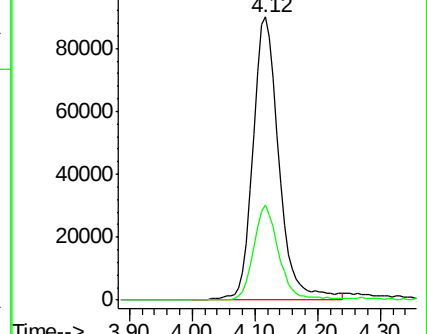
43 100

58 30.8 0.0 63.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 109.364 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW013853.D

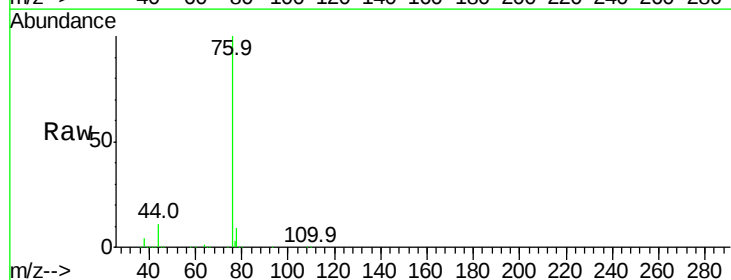
Acq: 31 Oct 2019 12:22

Tgt Ion: 76 Resp: 1551701

Ion Ratio Lower Upper

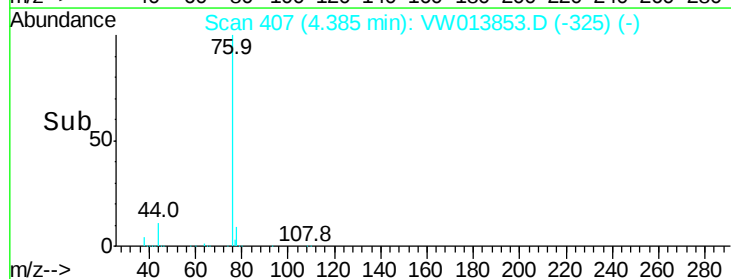
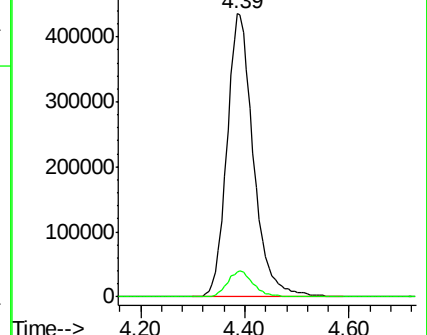
76 100

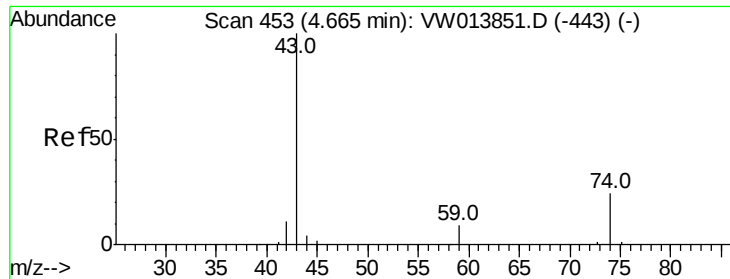
78 8.9 7.8 11.6



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

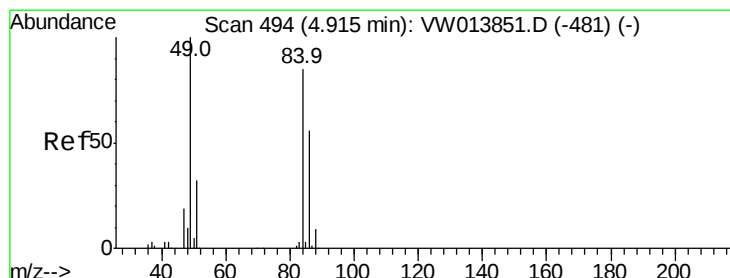
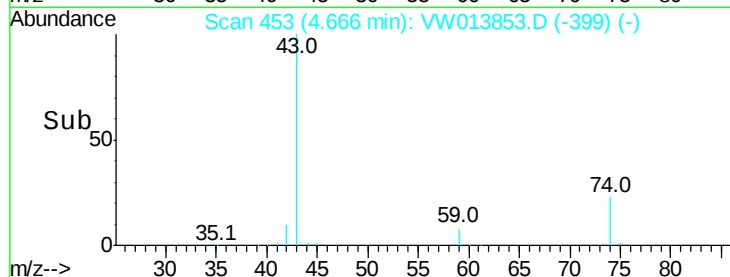
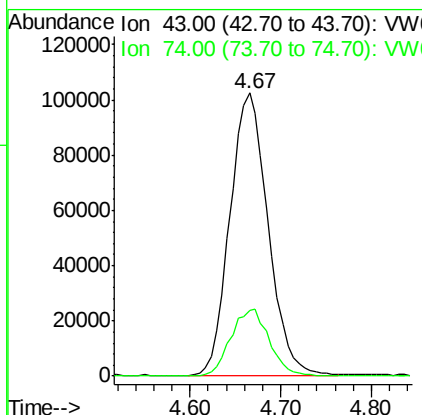
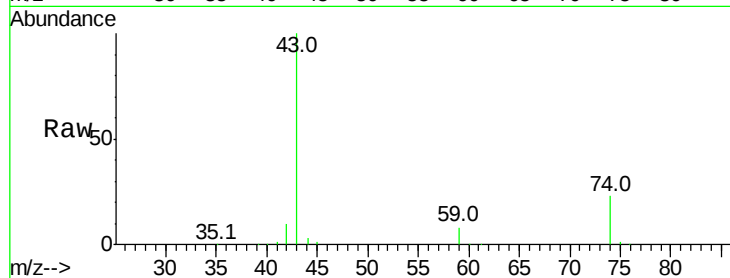




#15
Methyl Acetate
Concen: 120.139 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

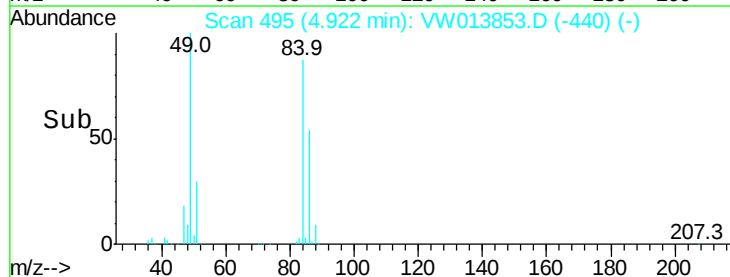
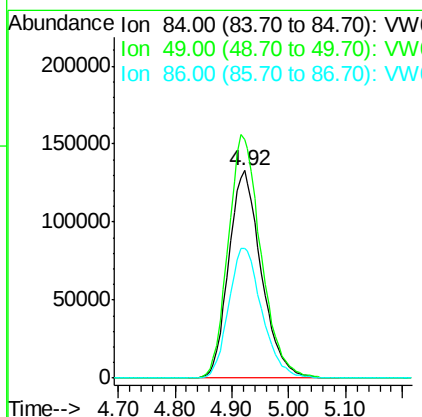
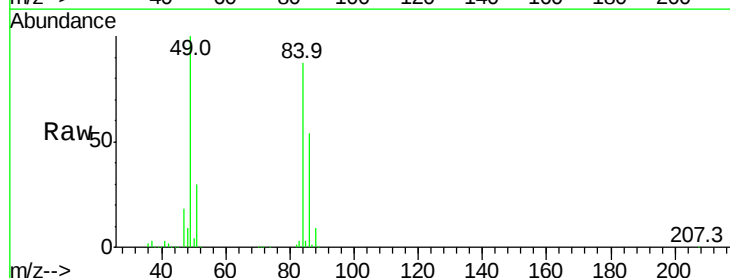
Instrument :
MSVOA_W
ClientSampleId :
VSTD10002

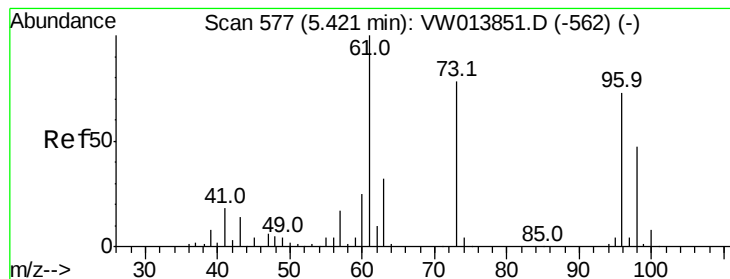
Tgt Ion: 43 Resp: 298296
Ion Ratio Lower Upper
43 100
74 23.8 19.2 28.8



#16
Methylene chloride
Concen: 89.016 ug/L
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

Tgt Ion: 84 Resp: 531823
Ion Ratio Lower Upper
84 100
49 115.0 82.2 152.6
86 62.6 45.6 84.8





#17

Methyl tert-butyl Ether

Concen: 92.951 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD10002

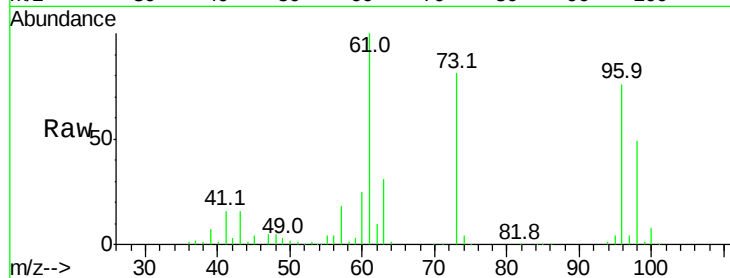
Tgt Ion: 73 Resp: 637729

Ion Ratio Lower Upper

73 100

43 19.1 15.3 22.9

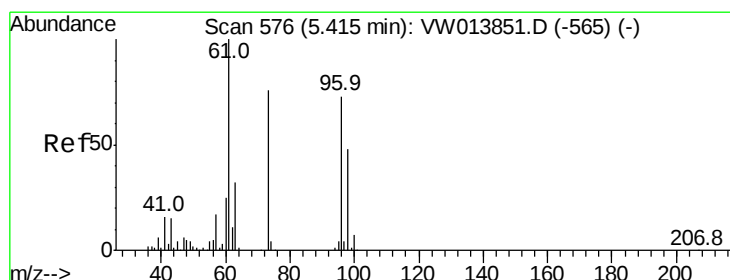
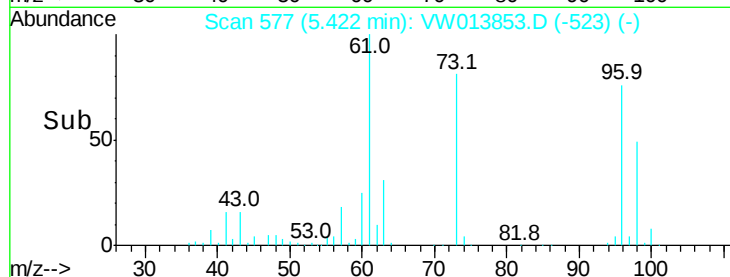
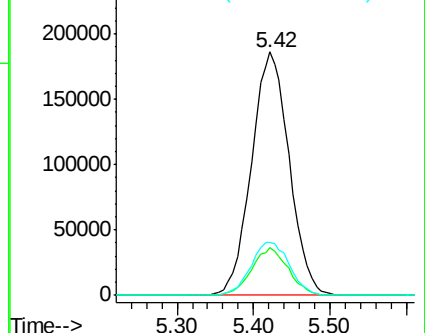
57 22.6 9.4 14.2#



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: 98.998 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

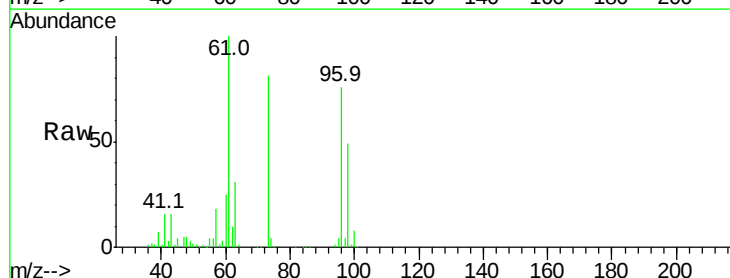
Tgt Ion: 96 Resp: 542646

Ion Ratio Lower Upper

96 100

61 132.0 95.5 177.4

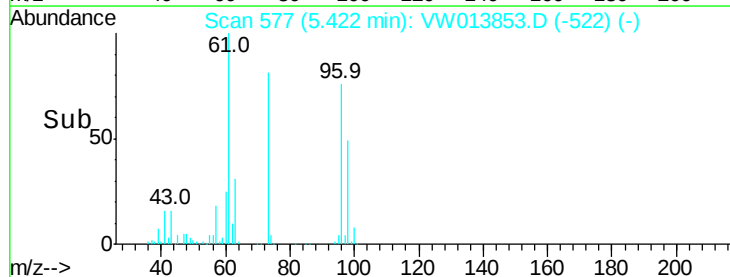
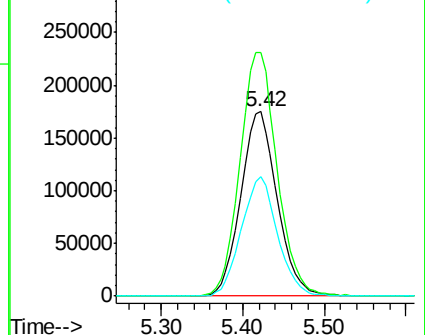
98 64.7 45.4 84.4

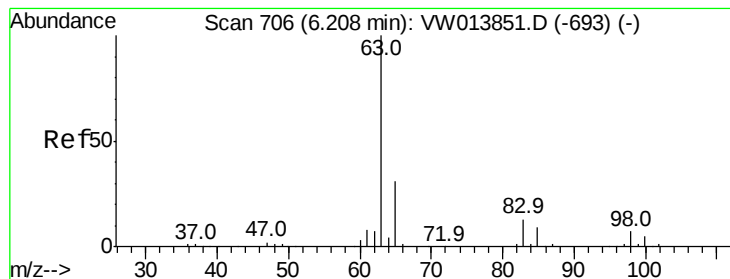


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW





#19

1,1-Dichloroethane

Concen: 99.134 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD10002

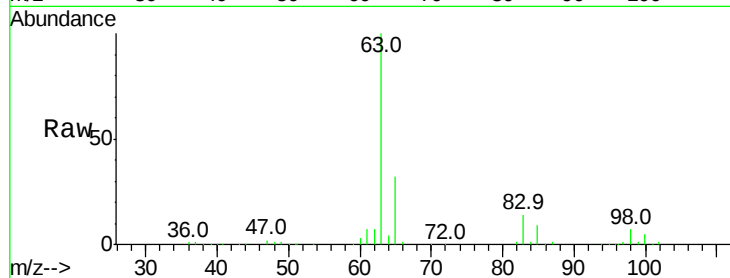
Tgt Ion: 63 Resp: 919792

Ion Ratio Lower Upper

63 100

65 31.7 22.0 40.8

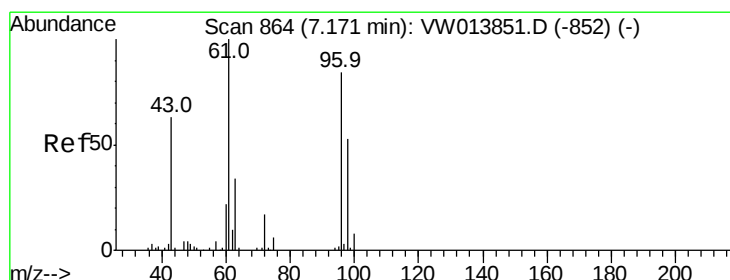
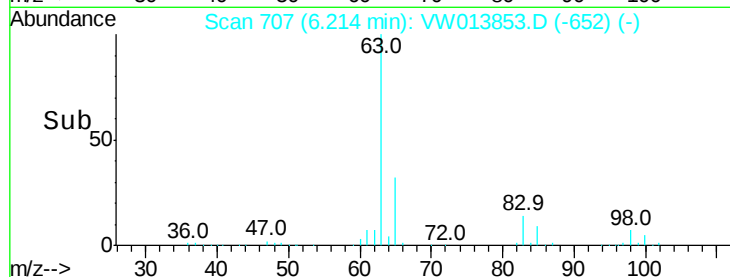
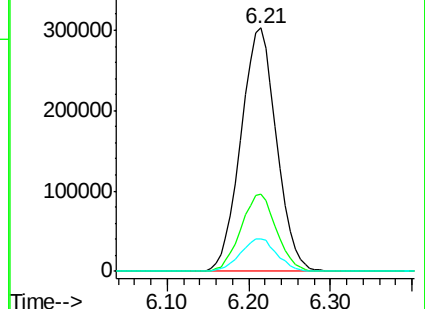
83 13.5 9.1 16.9



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: 217.651 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW013853.D

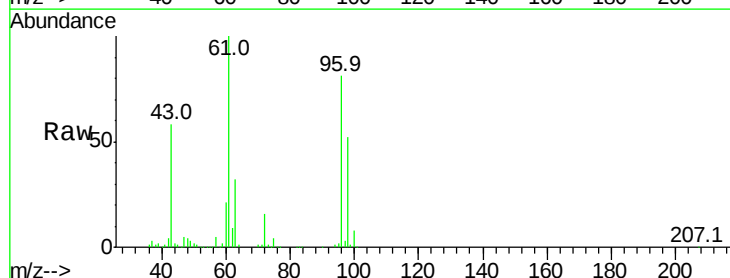
Acq: 31 Oct 2019 12:22

Tgt Ion: 43 Resp: 419932

Ion Ratio Lower Upper

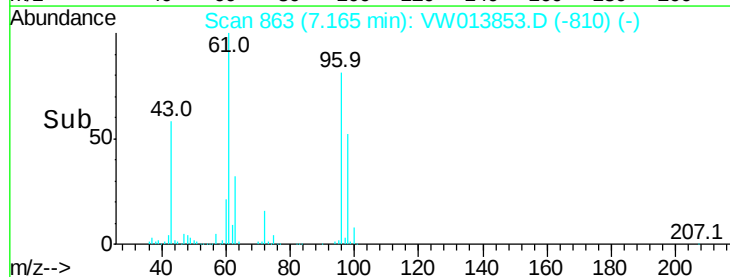
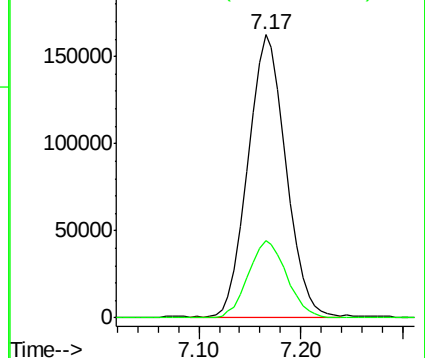
43 100

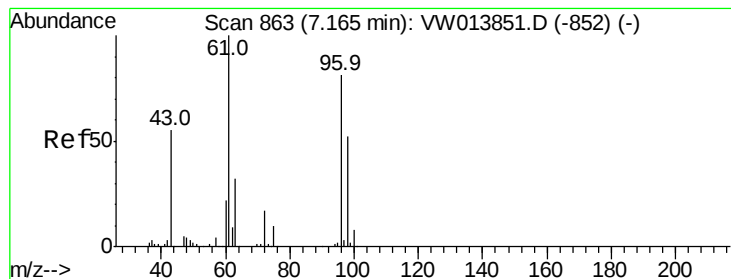
72 27.8 14.0 41.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



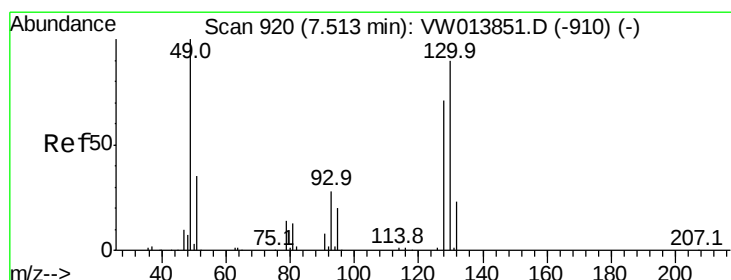
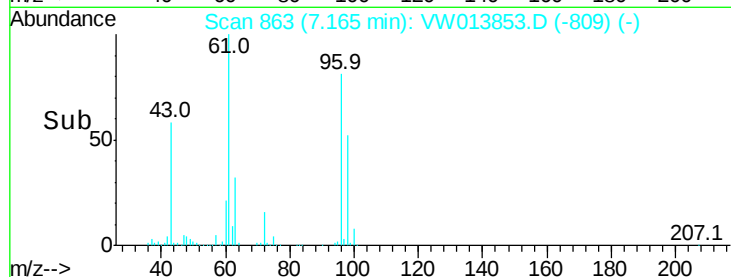
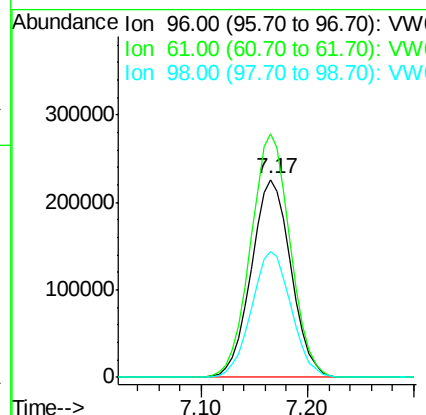
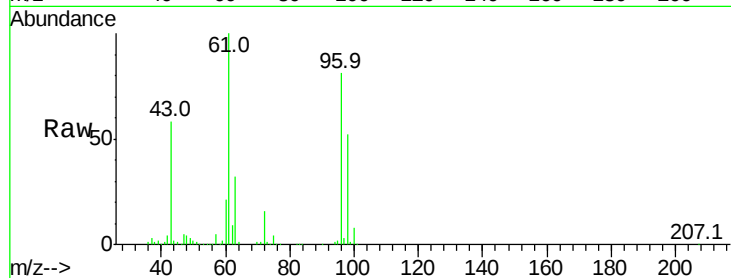


#22

cis-1,2-Dichloroethene
Concen: 100.329 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

Instrument :
MSVOA_W
ClientSampleId :
VSTD10002

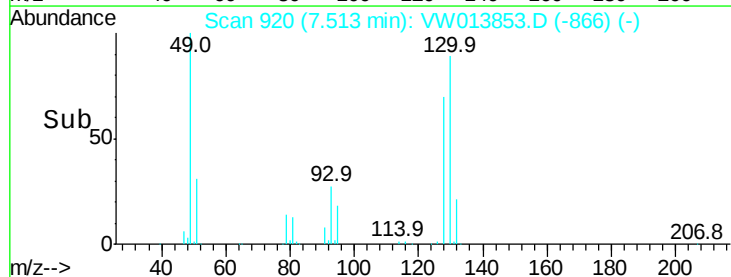
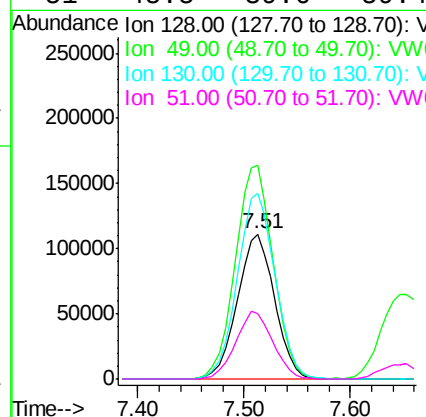
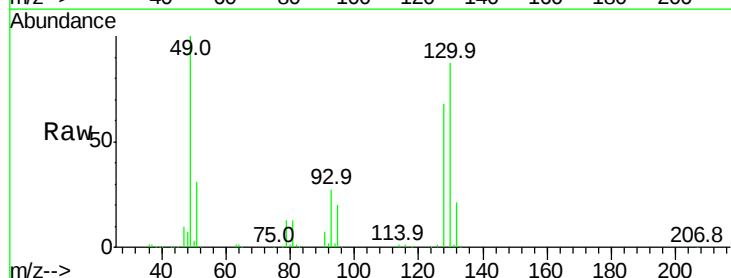
Tgt Ion: 96 Resp: 590298
Ion Ratio Lower Upper
96 100
61 122.9 86.6 160.8
98 63.3 44.5 82.7

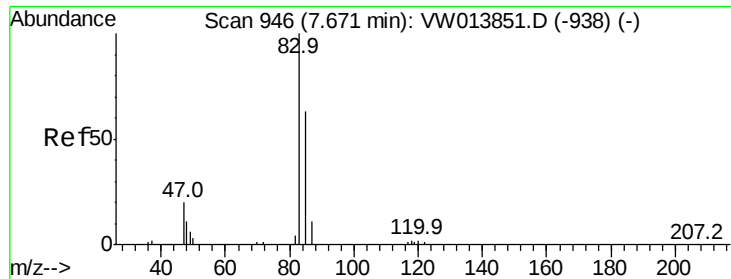


#23

Bromochloromethane
Concen: 102.376 ug/L
RT: 7.51 min Scan# 920
Delta R.T. 0.00 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

Tgt Ion: 128 Resp: 272251
Ion Ratio Lower Upper
128 100
49 147.4 99.1 184.1
130 128.0 88.8 164.8
51 45.5 39.6 59.4

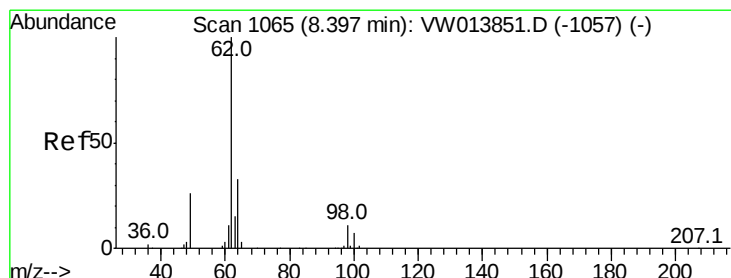
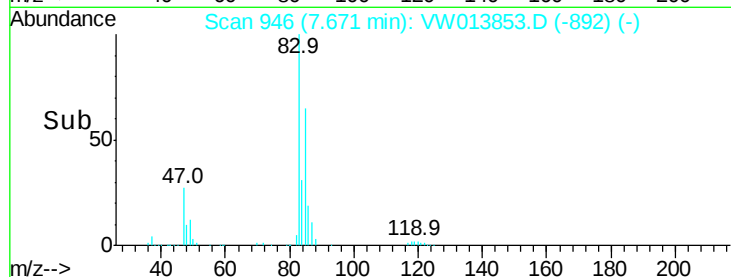
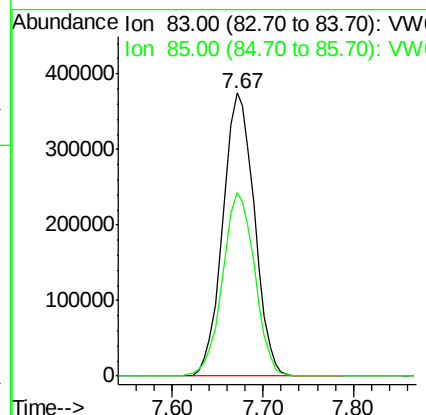
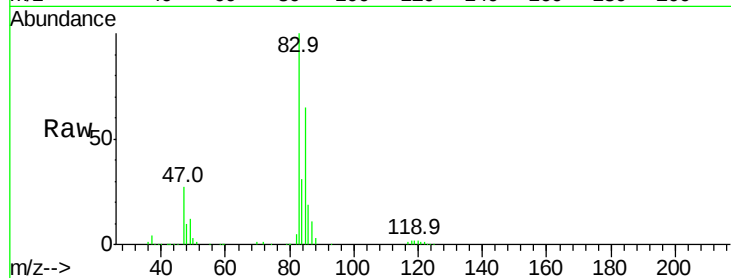




#25
Chloroform
Concen: 97.489 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

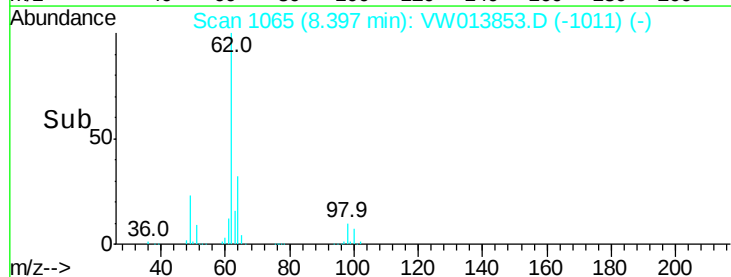
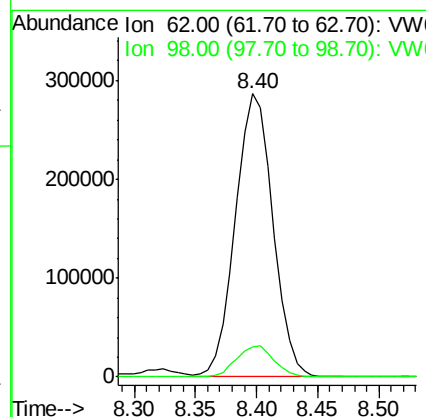
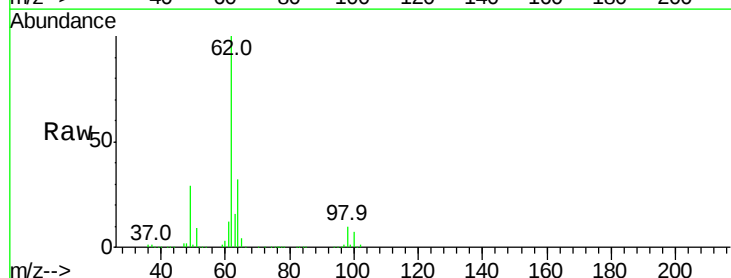
Instrument :
MSVOA_W
ClientSampleId :
VSTD10002

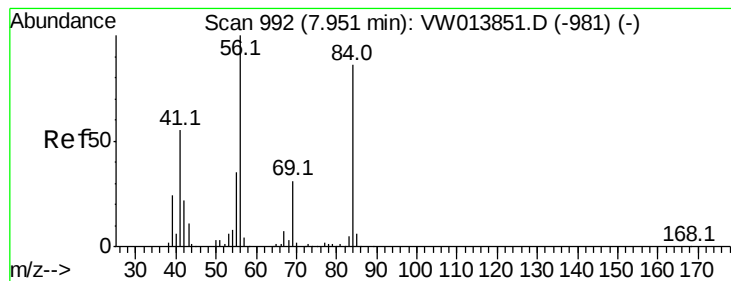
Tgt Ion: 83 Resp: 908610
Ion Ratio Lower Upper
83 100
85 66.1 46.2 85.8



#27
1,2-Dichloroethane
Concen: 102.268 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

Tgt Ion: 62 Resp: 610897
Ion Ratio Lower Upper
62 100
98 10.5 8.6 12.8





#30

Cyclohexane

Concen: 100.298 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD10002

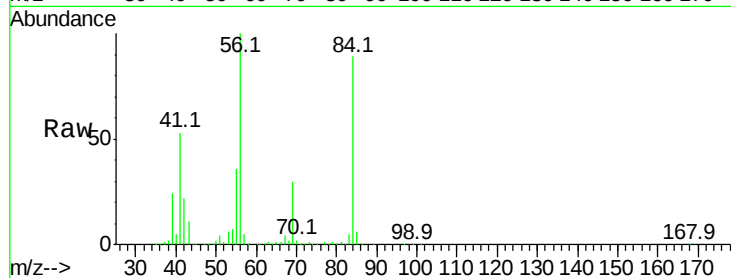
Tgt Ion: 56 Resp: 919053

Ion Ratio Lower Upper

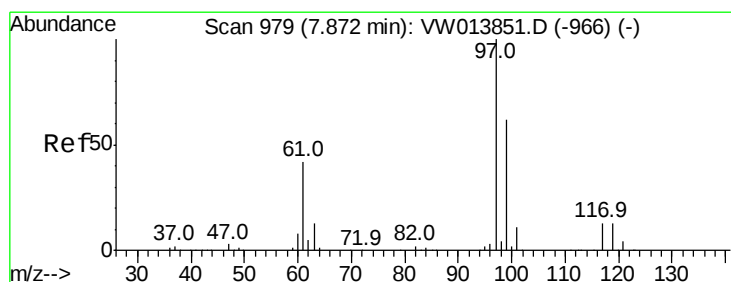
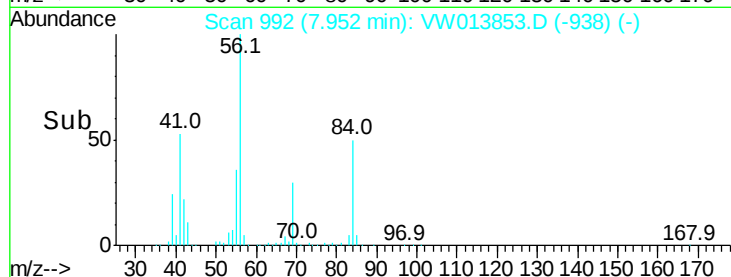
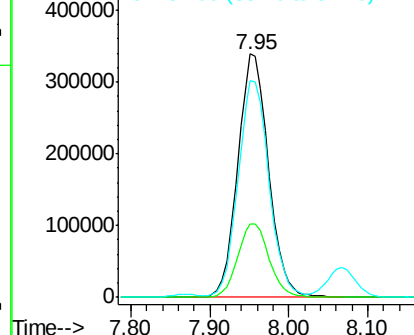
56 100

69 30.9 24.6 36.8

84 89.8 70.2 105.4



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#31

1,1,1-Trichloroethane

Concen: 94.890 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

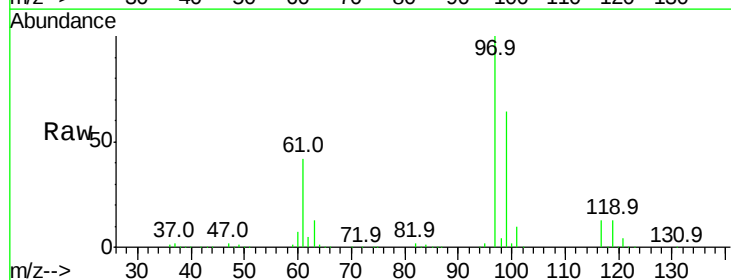
Tgt Ion: 97 Resp: 692235

Ion Ratio Lower Upper

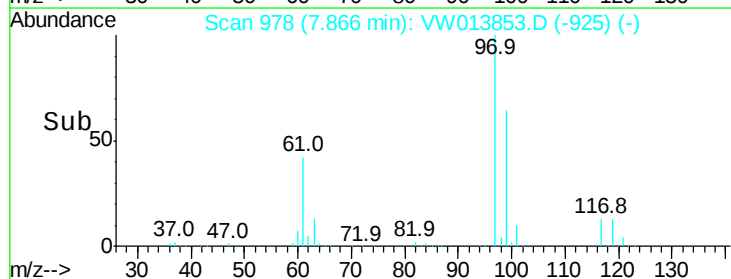
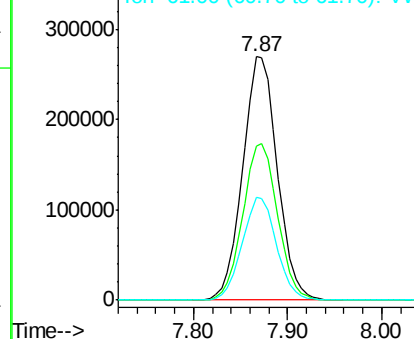
97 100

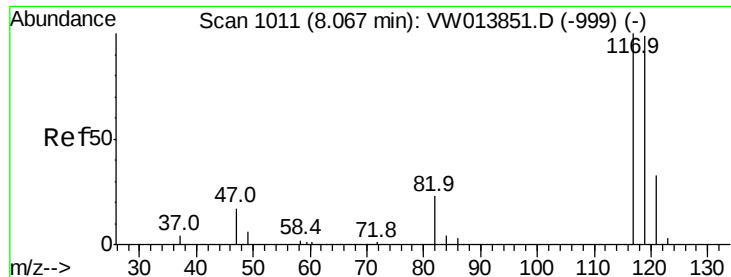
99 64.8 51.3 76.9

61 42.1 33.6 50.4



Abundance Ion 97.00 (96.70 to 97.70): VW
Ion 99.00 (98.70 to 99.70): VW
Ion 61.00 (60.70 to 61.70): VW



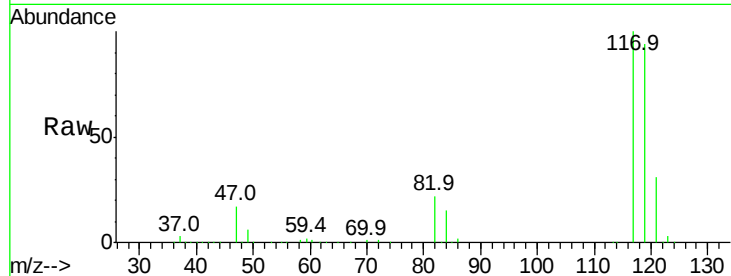


#32

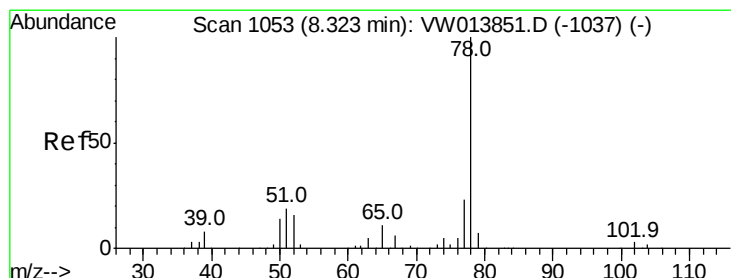
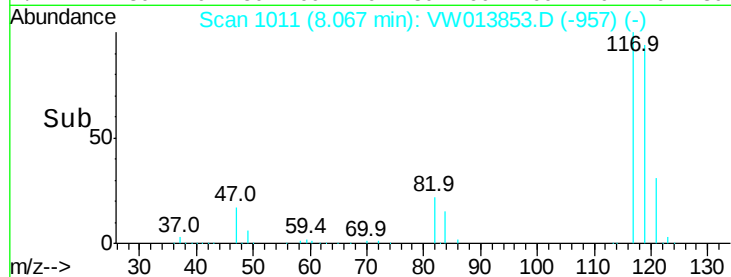
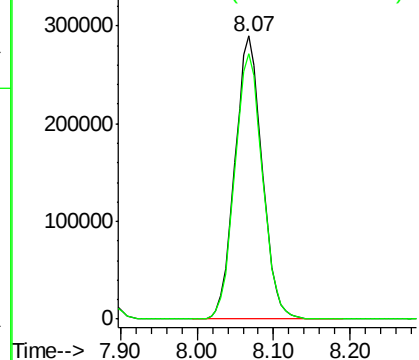
Carbon tetrachloride
Concen: 100.347 ug/L
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

Instrument :
MSVOA_W
ClientSampleId :
VSTD10002

Tgt Ion:117 Resp: 712840
Ion Ratio Lower Upper
117 100
119 95.6 75.8 113.6



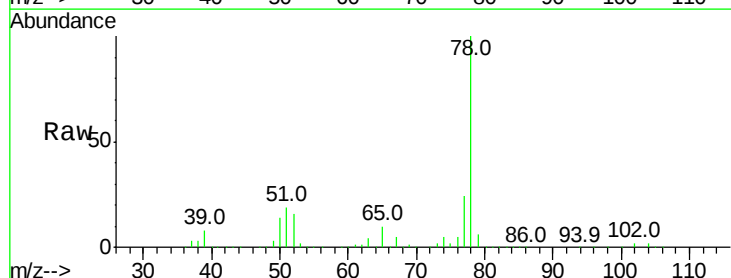
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V



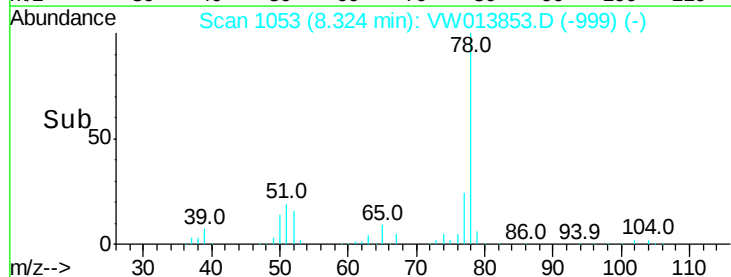
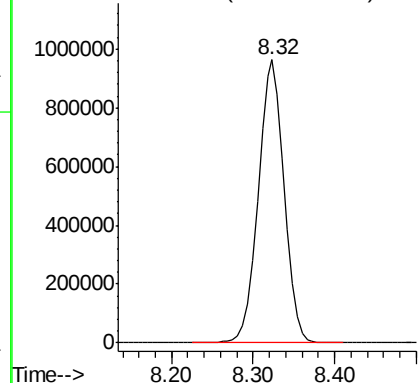
#34

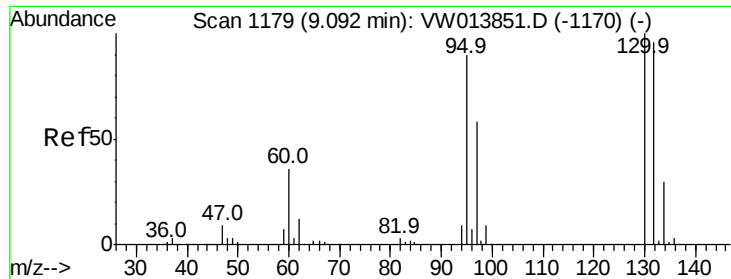
Benzene
Concen: 94.721 ug/L
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

Tgt Ion: 78 Resp: 2125731



Abundance Ion 78.00 (77.70 to 78.70): VW

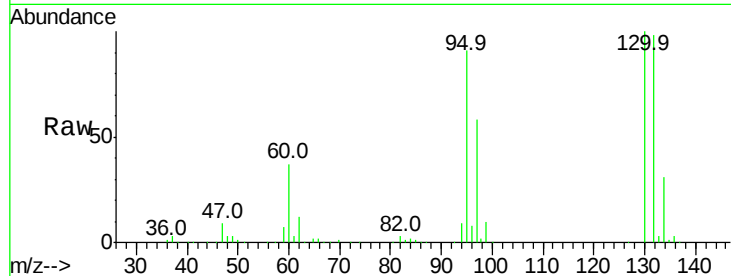




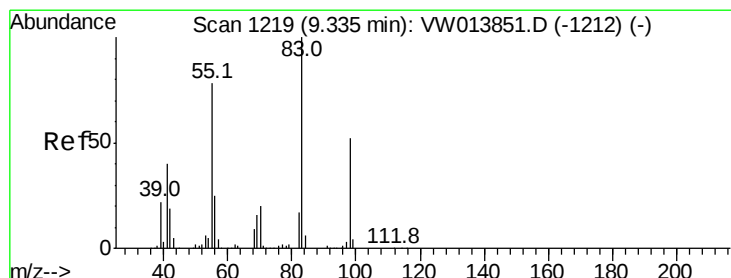
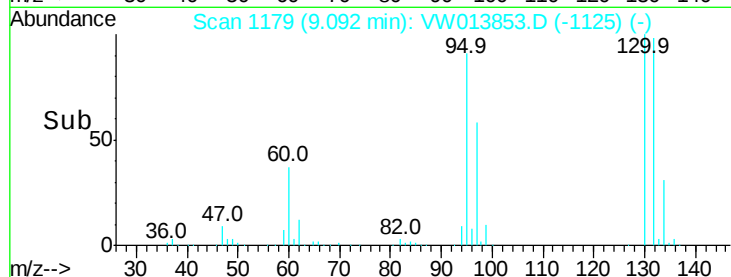
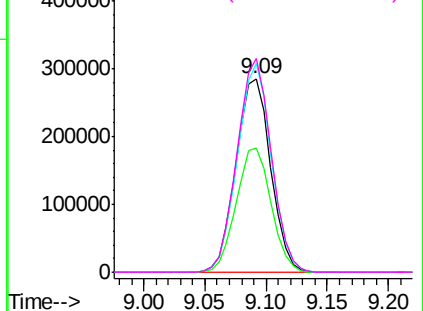
#35
 Trichloroethene
 Concen: 97.661 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.00 min
 Lab File: VW013853.D
 Acq: 31 Oct 2019 12:22

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD10002

Tgt Ion: 95 Resp: 562327
 Ion Ratio Lower Upper
 95 100
 97 64.4 45.0 83.6
 132 105.1 72.4 134.4
 130 109.1 76.6 142.3

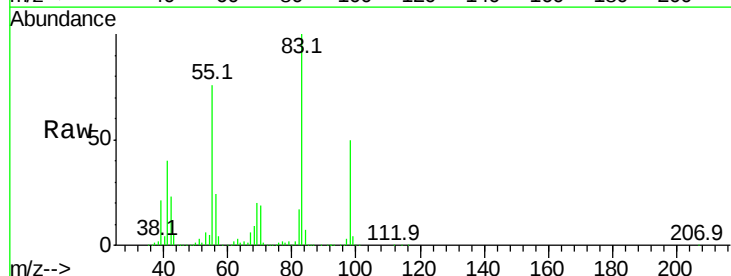


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

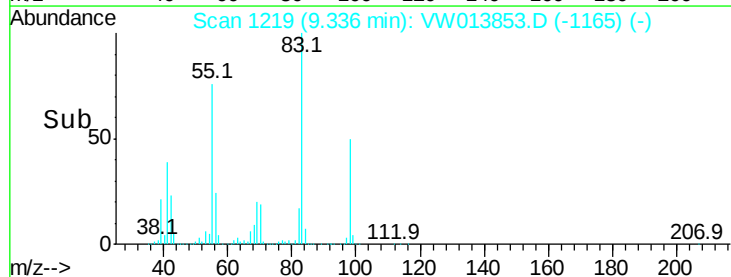
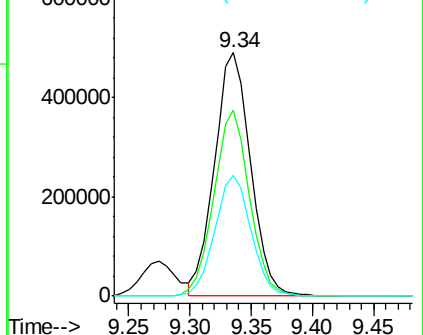


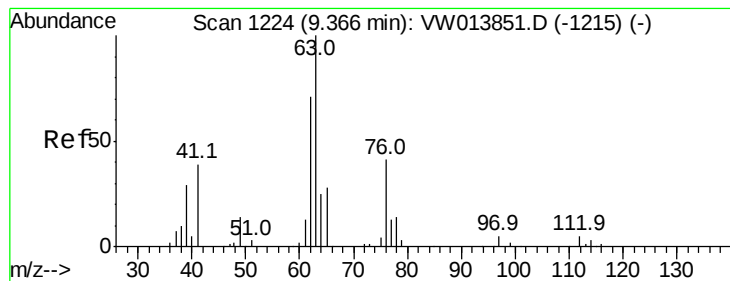
#36
 Methylcyclohexane
 Concen: 99.297 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VW013853.D
 Acq: 31 Oct 2019 12:22

Tgt Ion: 83 Resp: 1007751
 Ion Ratio Lower Upper
 83 100
 55 75.2 60.3 90.5
 98 49.8 39.4 59.2



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: 95.544 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

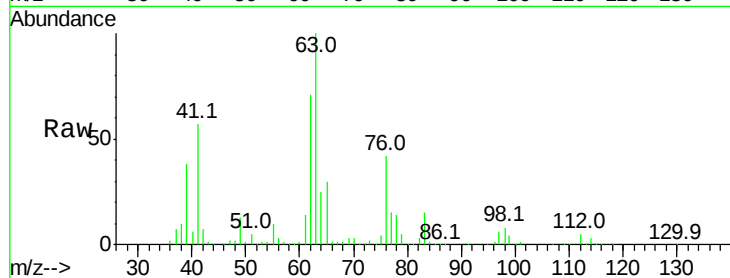
VSTD10002

Tgt Ion: 63 Resp: 524278

Ion Ratio Lower Upper

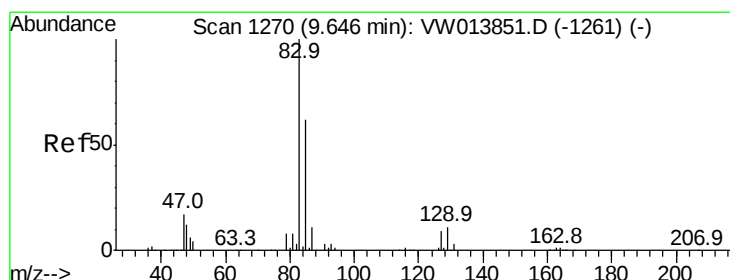
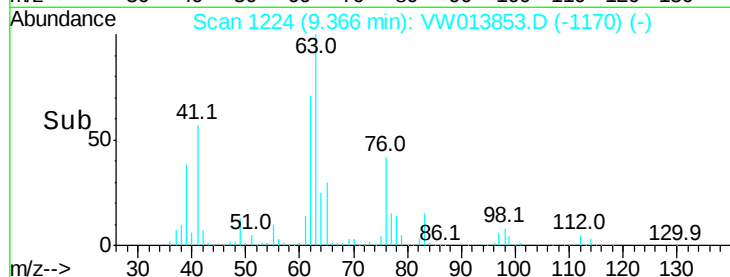
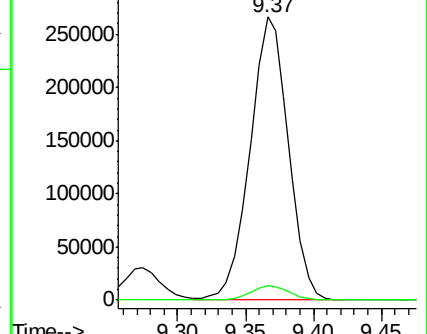
63 100

112 5.0 4.1 6.1



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 101.930 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

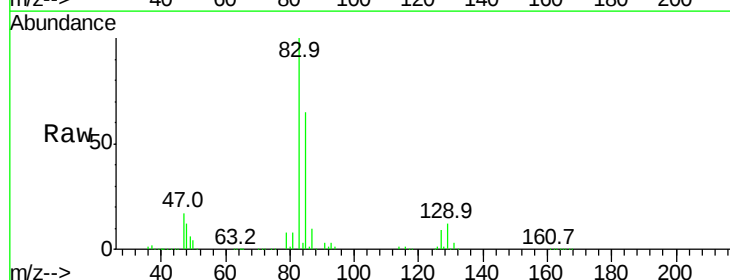
Tgt Ion: 83 Resp: 685325

Ion Ratio Lower Upper

83 100

85 64.8 43.5 80.7

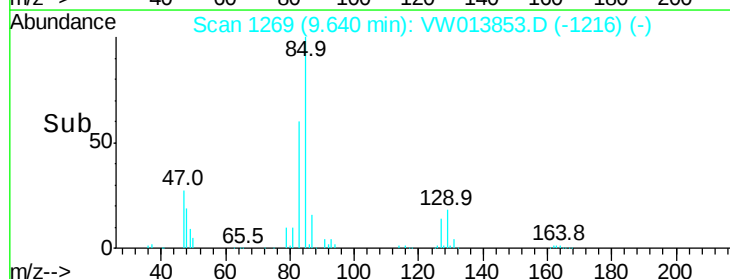
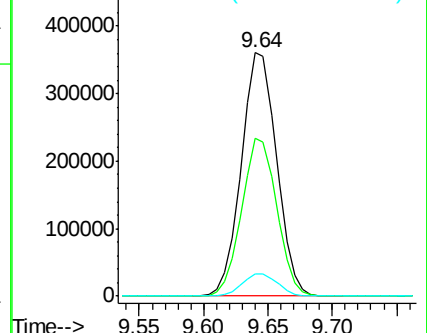
127 9.0 6.9 10.3

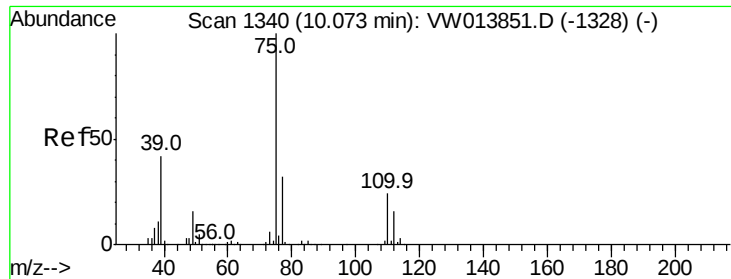


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 103.842 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Instrument :

MSVOA_W

ClientSampled :

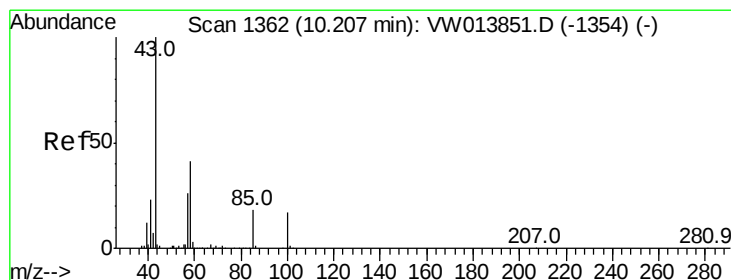
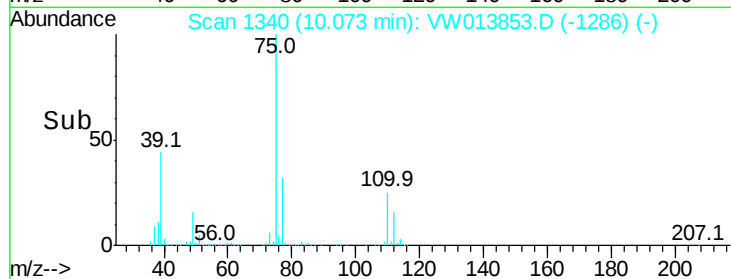
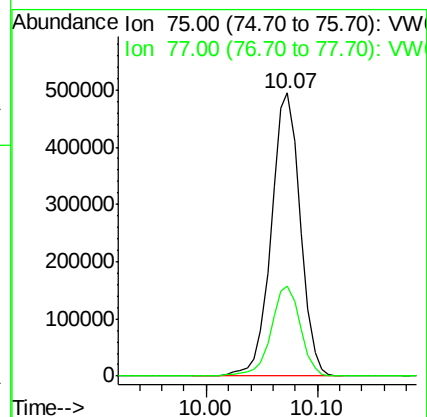
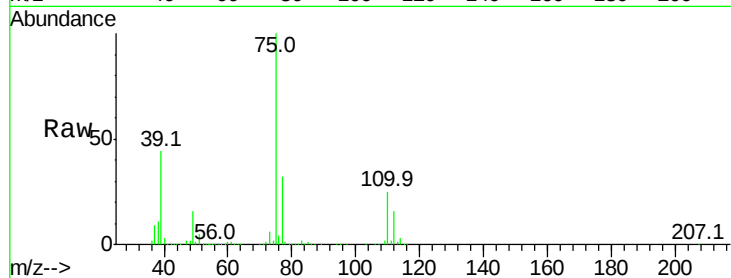
VSTD10002

Tgt Ion: 75 Resp: 899622

Ion Ratio Lower Upper

75 100

77 31.7 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 228.900 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

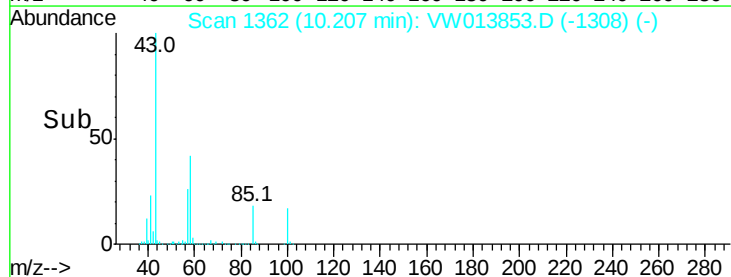
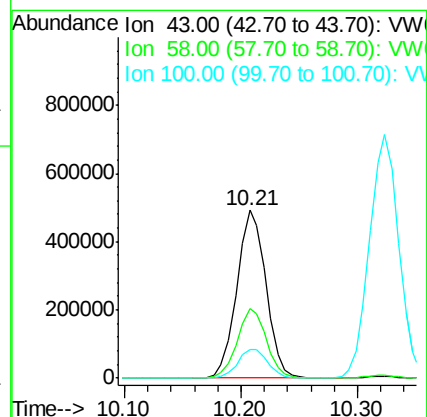
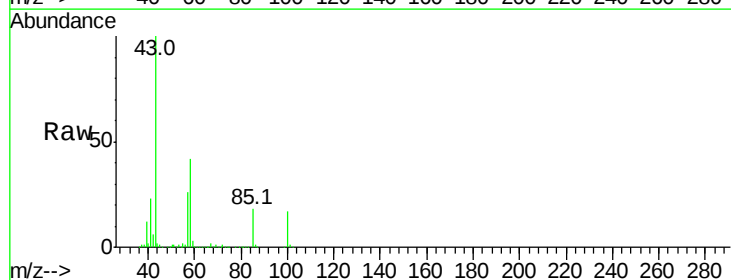
Tgt Ion: 43 Resp: 856953

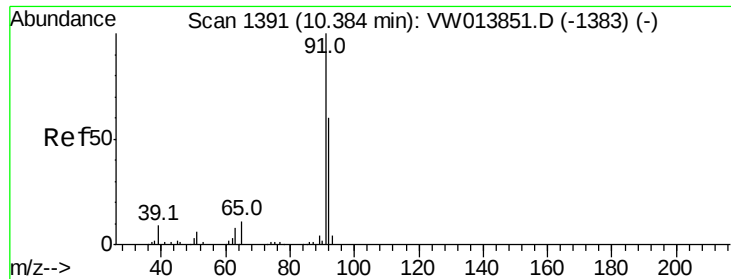
Ion Ratio Lower Upper

43 100

58 41.3 32.1 48.1

100 17.7 13.4 20.0





#44

Toluene

Concen: 97.672 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

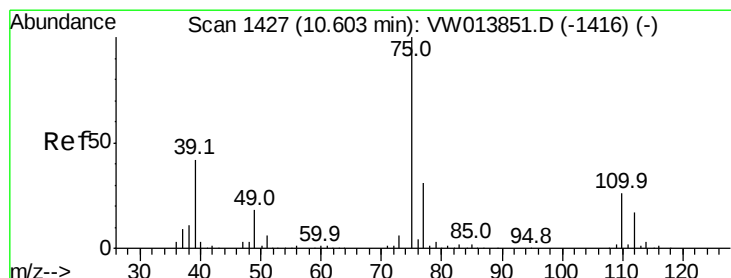
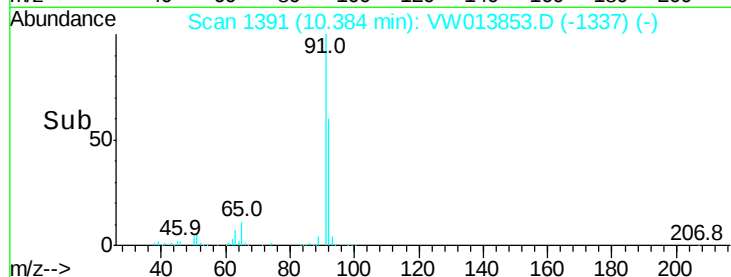
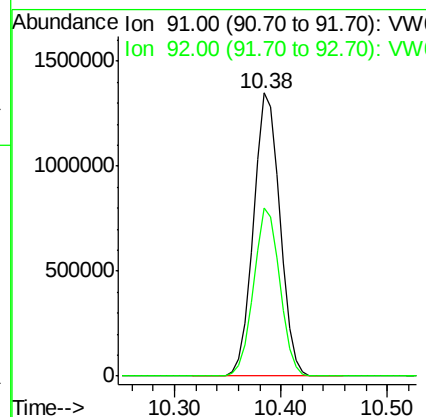
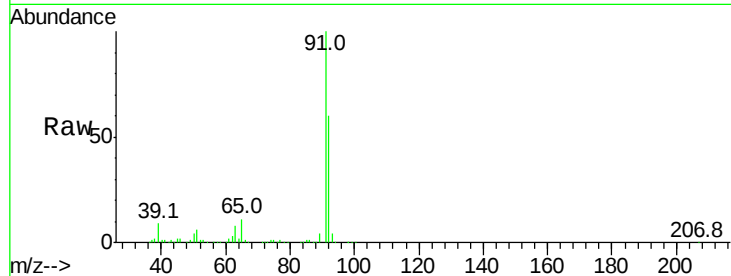
VSTD10002

Tgt Ion: 91 Resp: 2355016

Ion Ratio Lower Upper

91 100

92 59.6 42.0 78.0



#45

trans-1,3-Dichloropropene

Concen: 106.527 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW013853.D

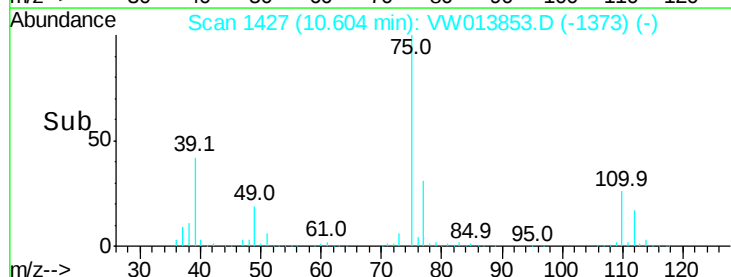
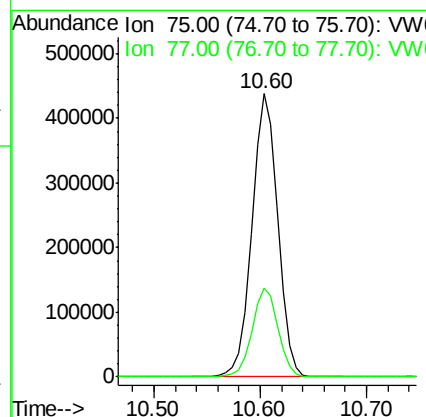
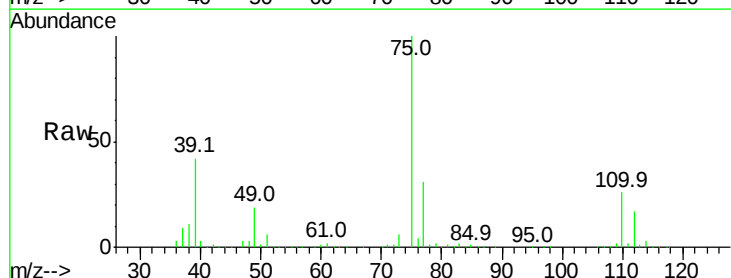
Acq: 31 Oct 2019 12:22

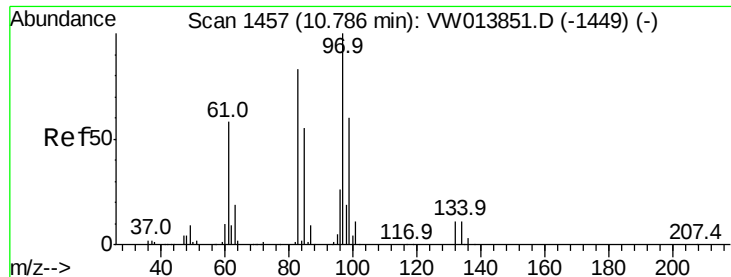
Tgt Ion: 75 Resp: 744963

Ion Ratio Lower Upper

75 100

77 31.3 21.9 40.7





#46

1,1,2-Trichloroethane

Concen: 102.172 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD10002

Tgt Ion: 97 Resp: 432392

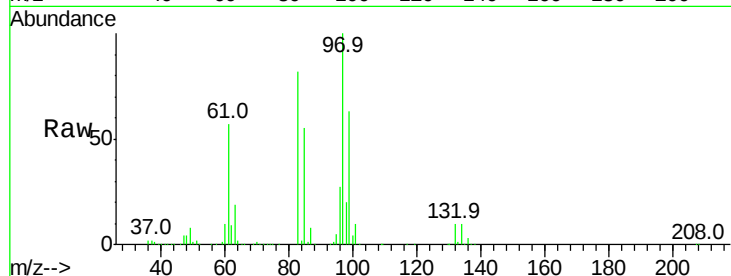
Ion Ratio Lower Upper

97 100

83 82.4 57.8 107.4

85 54.9 38.3 71.1

99 62.6 42.2 78.4



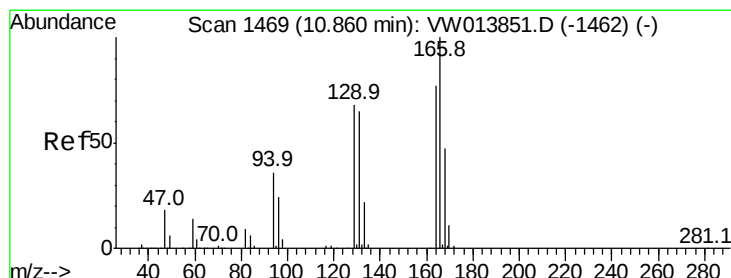
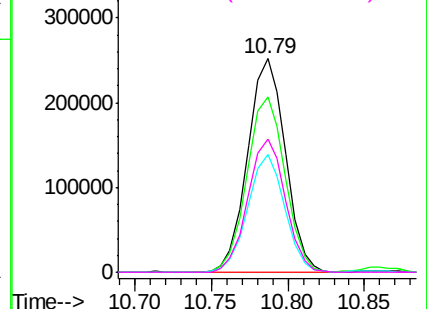
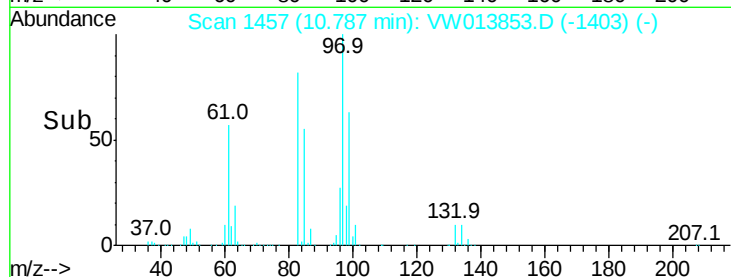
Abundance

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: 97.294 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Tgt Ion: 164 Resp: 512806

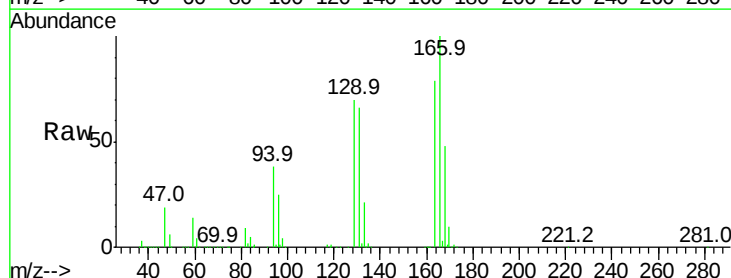
Ion Ratio Lower Upper

164 100

129 88.9 62.5 116.1

131 82.8 59.8 111.0

166 126.3 91.6 170.0



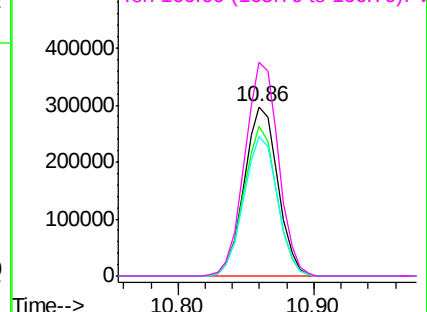
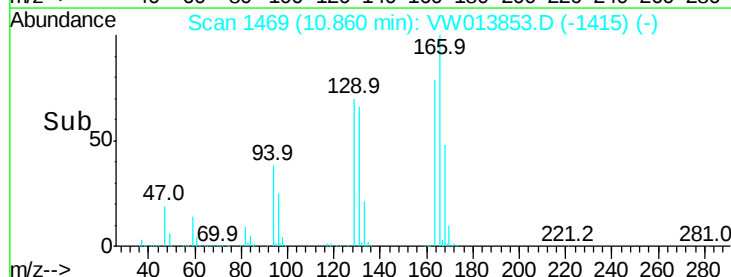
Abundance

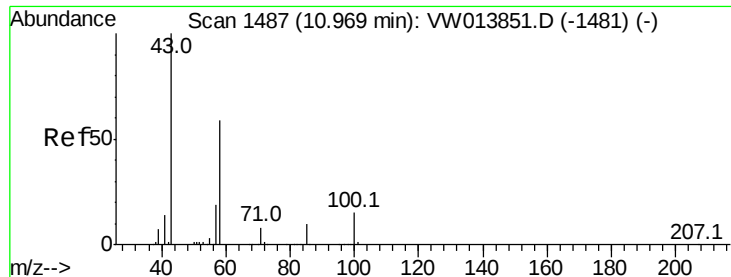
Ion 164.00 (163.70 to 164.70): V

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

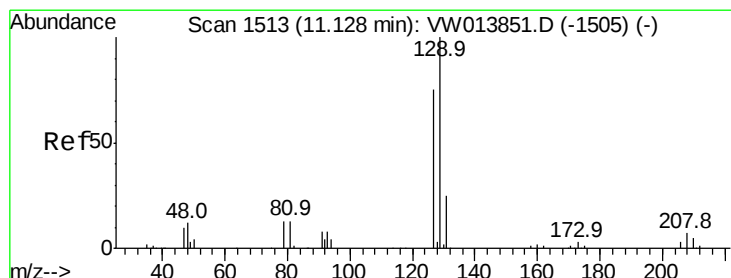
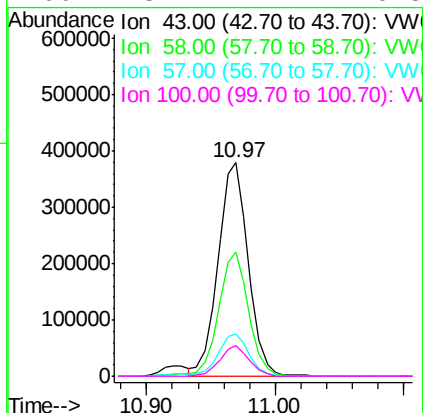
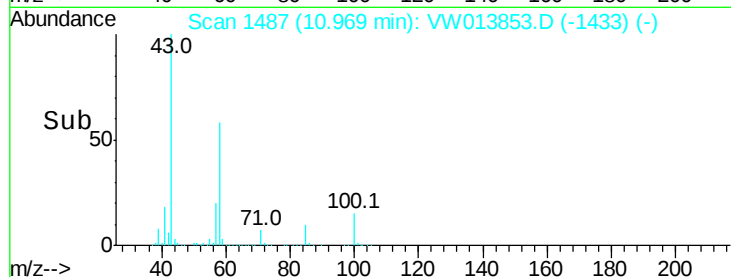
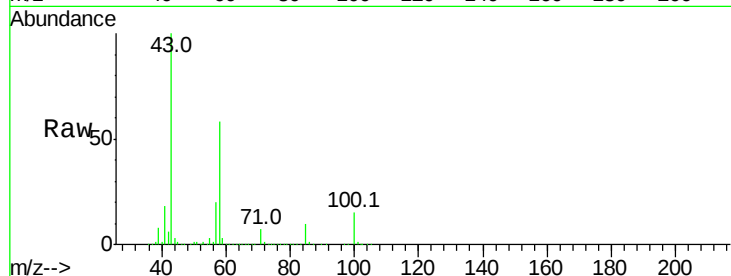




#49
2-Hexanone
Concen: 235.438 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

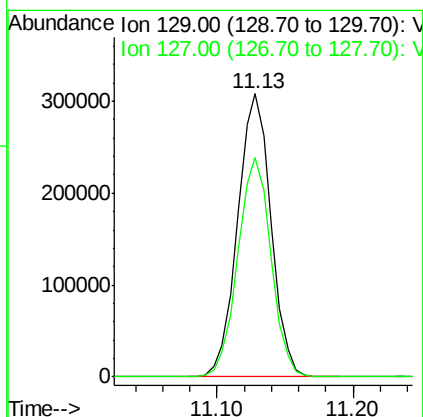
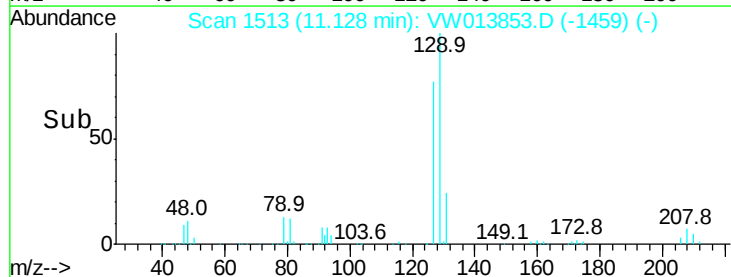
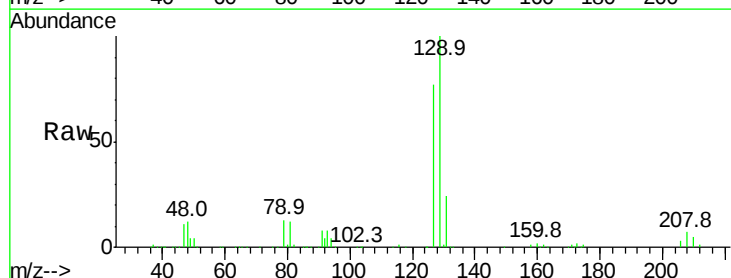
Instrument :
MSVOA_W
ClientSampleId :
VSTD10002

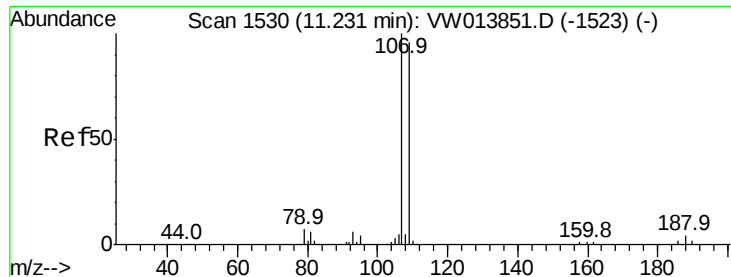
Tgt Ion: 43 Resp: 625322
Ion Ratio Lower Upper
43 100
58 58.0 47.0 70.4
57 19.9 16.0 24.0
100 13.7 11.2 16.8



#50
Dibromochloromethane
Concen: 105.598 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

Tgt Ion: 129 Resp: 527407
Ion Ratio Lower Upper
129 100
127 77.4 52.6 97.8

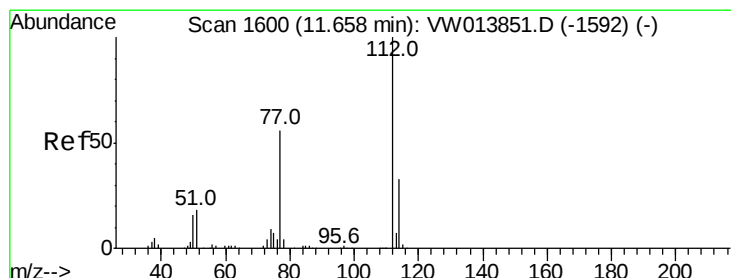
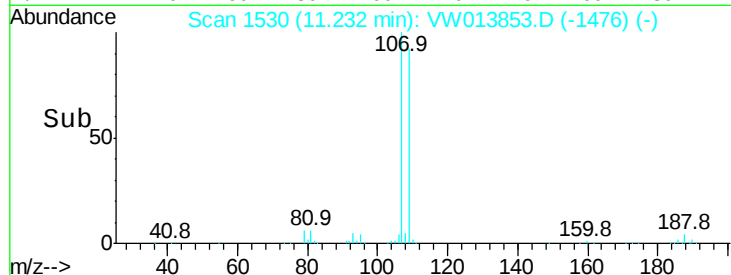
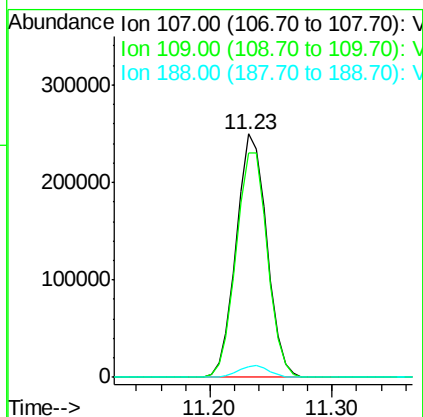
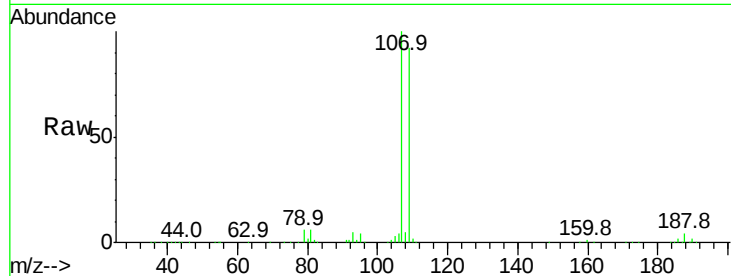




#51
1,2-Dibromoethane
Concen: 105.132 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

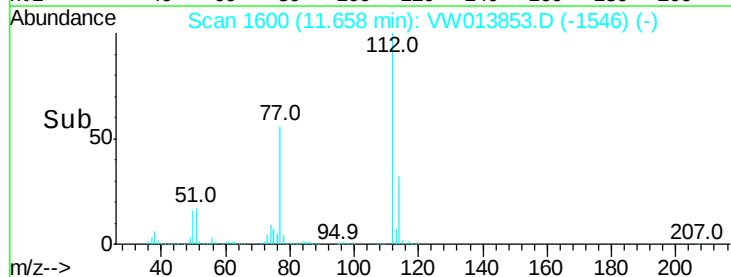
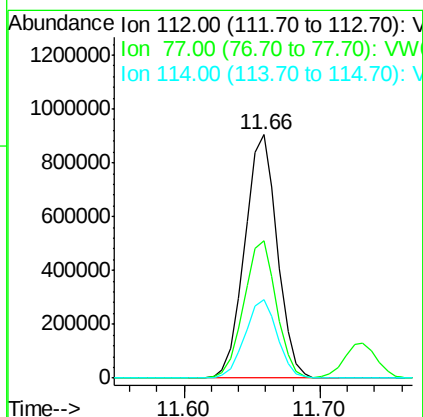
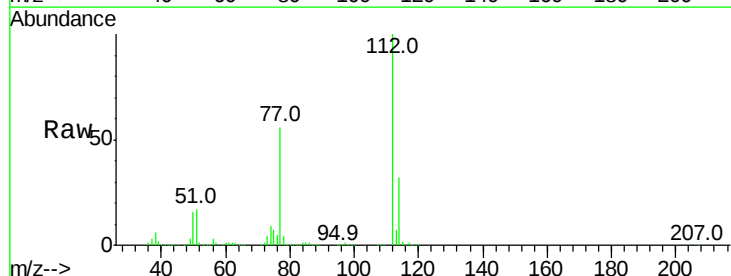
Instrument :
MSVOA_W
ClientSampleId :
VSTD10002

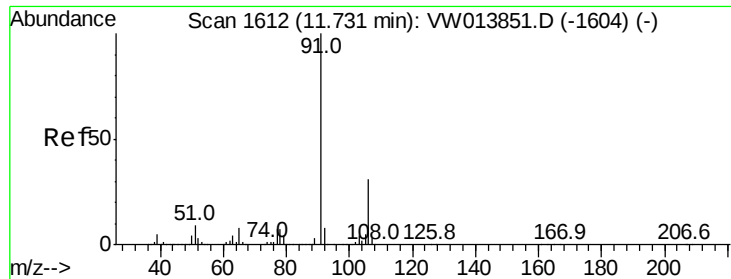
Tgt Ion:107 Resp: 432655
Ion Ratio Lower Upper
107 100
109 92.4 67.3 124.9
188 4.5 3.5 5.3



#52
Chlorobenzene
Concen: 98.083 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

Tgt Ion:112 Resp: 1513146
Ion Ratio Lower Upper
112 100
77 56.2 44.7 67.1
114 32.2 23.1 42.9

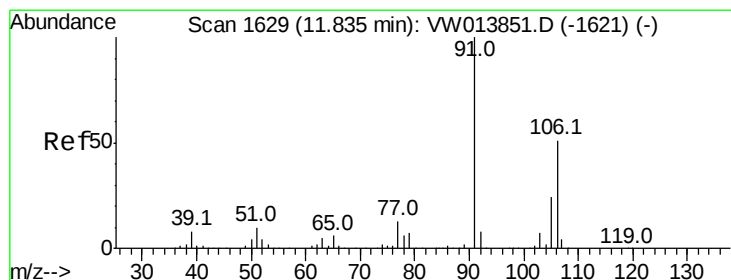
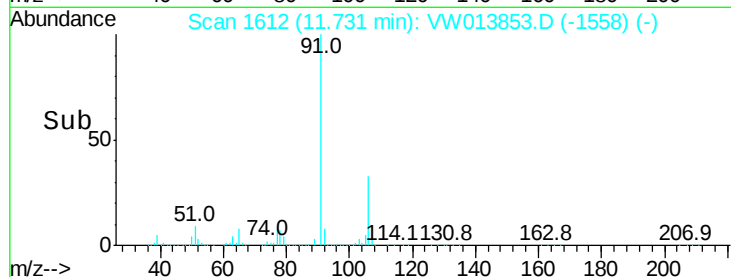
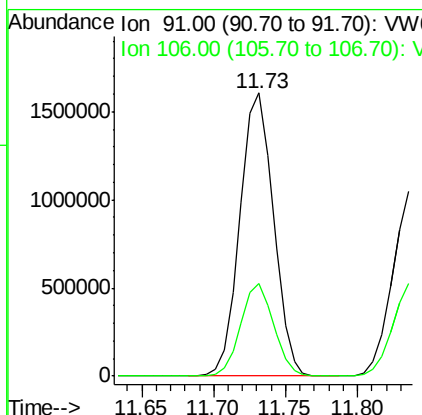
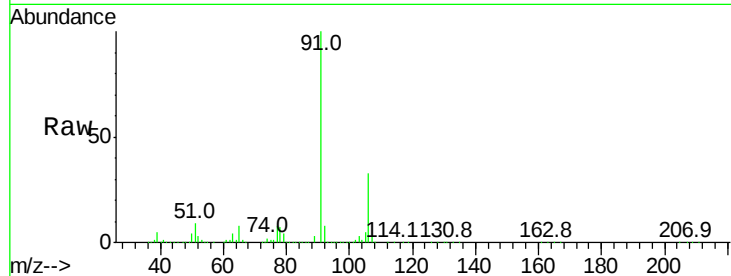




#53
Ethylbenzene
Concen: 97.630 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

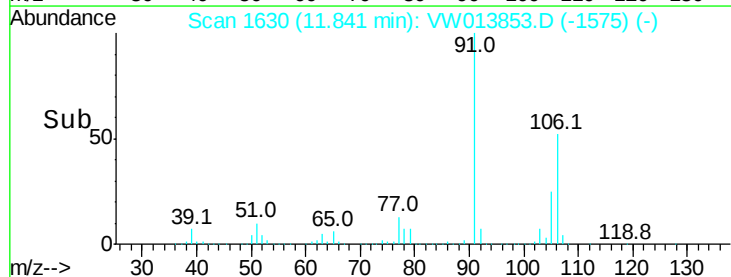
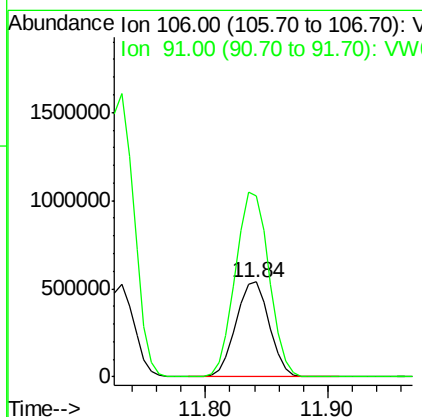
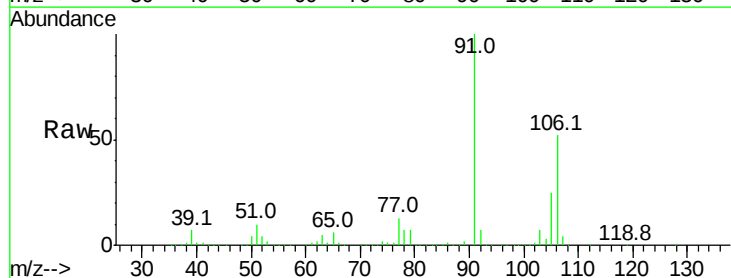
Instrument :
MSVOA_W
ClientSampleId :
VSTD10002

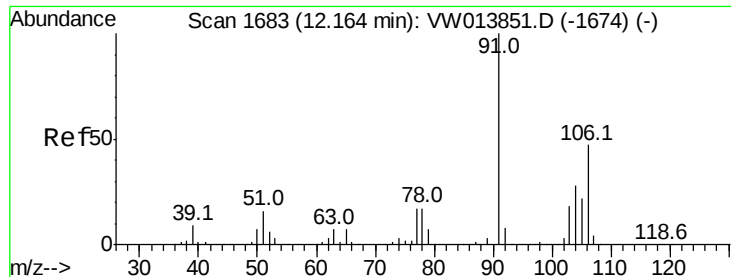
Tgt Ion: 91 Resp: 2600921
Ion Ratio Lower Upper
91 100
106 32.6 21.8 40.4



#54
m,p-Xylene
Concen: 98.788 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.01 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

Tgt Ion: 106 Resp: 1017002
Ion Ratio Lower Upper
106 100
91 190.8 136.6 253.8

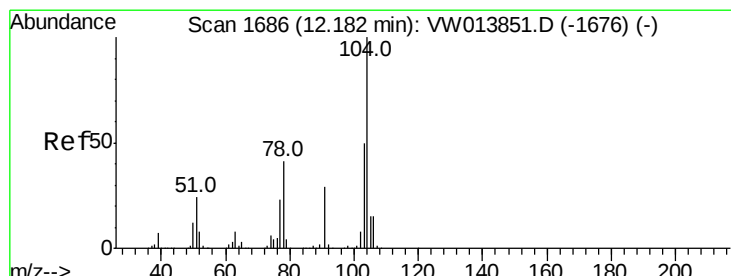
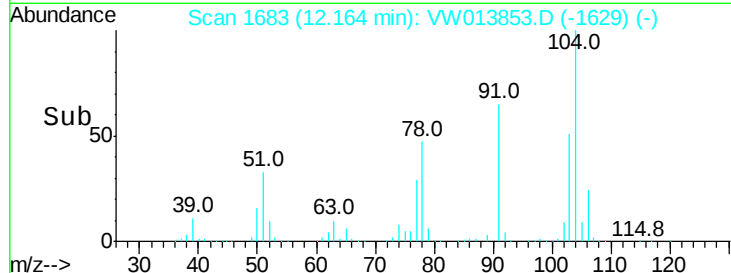
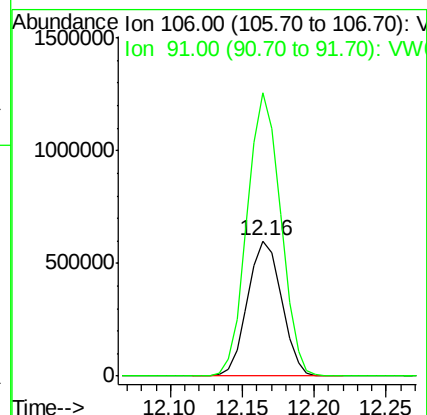
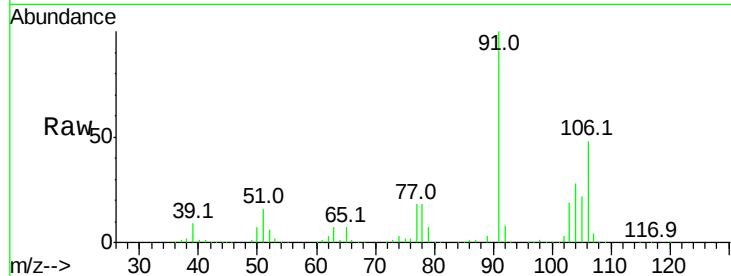




#55
o-xylene
Concen: 100.310 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

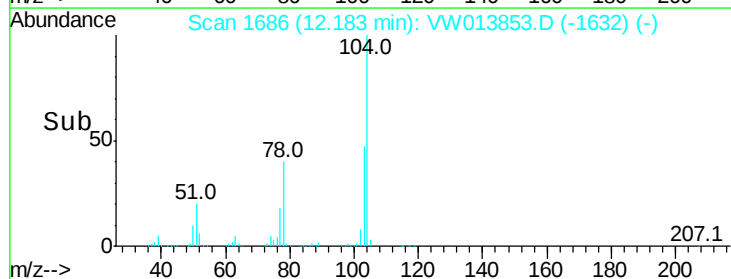
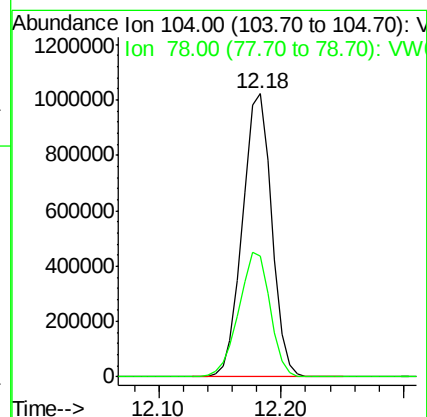
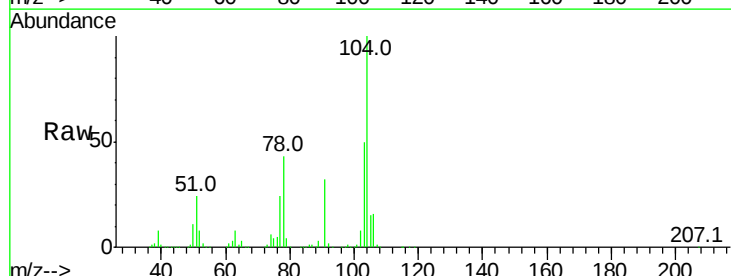
Instrument :
MSVOA_W
ClientSampleId :
VSTD10002

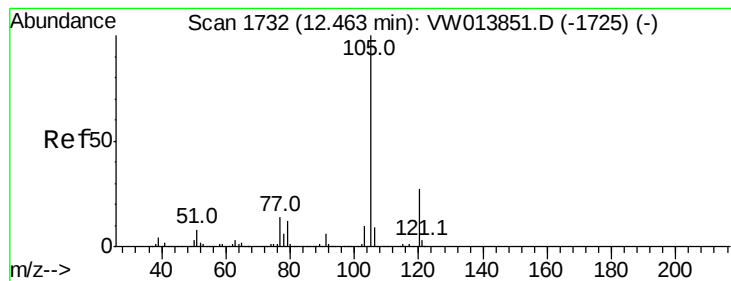
Tgt Ion:106 Resp: 979979
Ion Ratio Lower Upper
106 100
91 209.1 148.0 274.8



#56
Styrene
Concen: 101.212 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW013853.D
Acq: 31 Oct 2019 12:22

Tgt Ion:104 Resp: 1691501
Ion Ratio Lower Upper
104 100
78 42.7 28.9 53.7





#57

Isopropylbenzene

Concen: 100.130 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD10002

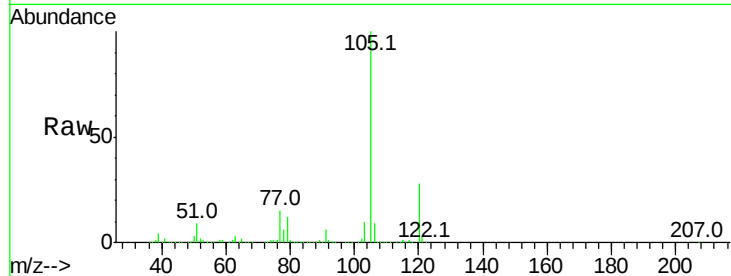
Tgt Ion:105 Resp: 2623896

Ion Ratio Lower Upper

105 100

120 26.8 21.7 32.5

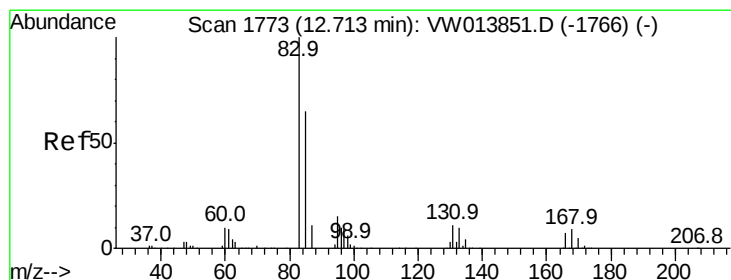
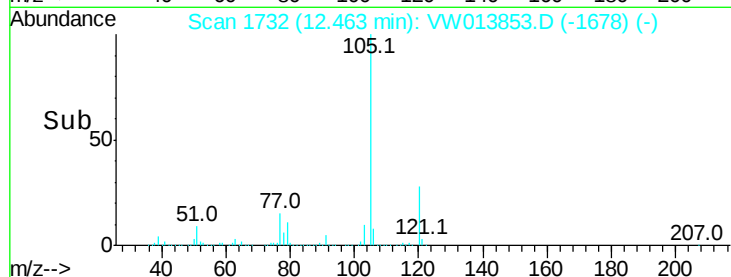
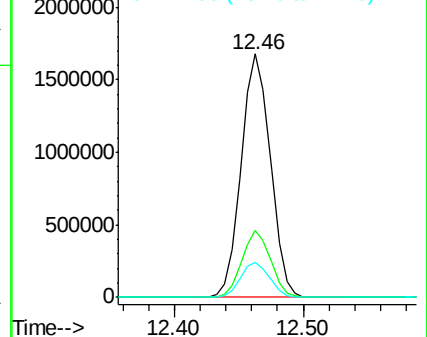
77 14.5 11.7 17.5



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: 111.096 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

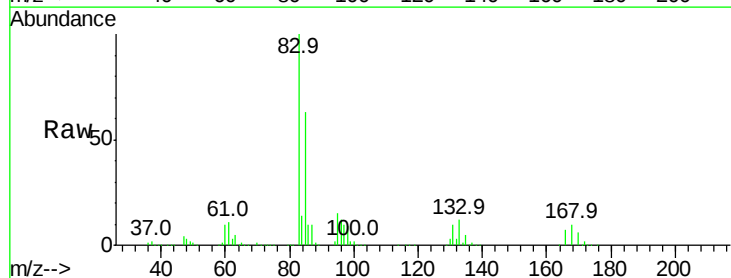
Tgt Ion: 83 Resp: 551055

Ion Ratio Lower Upper

83 100

85 62.9 46.1 85.7

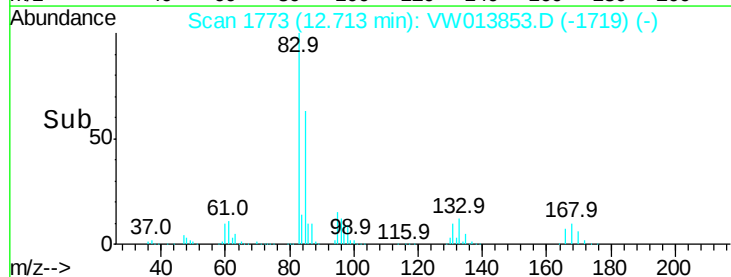
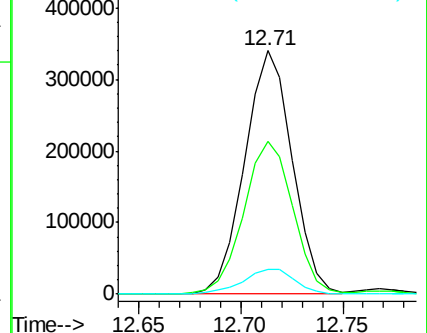
131 10.4 9.0 13.6

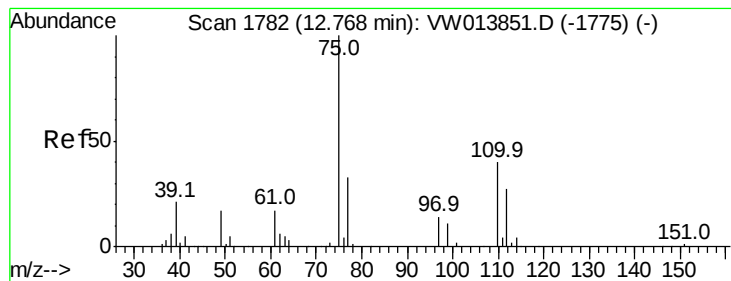


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

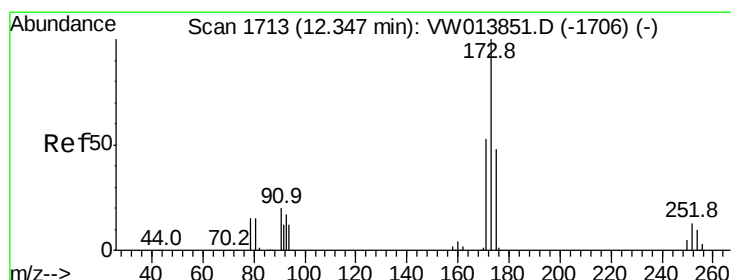
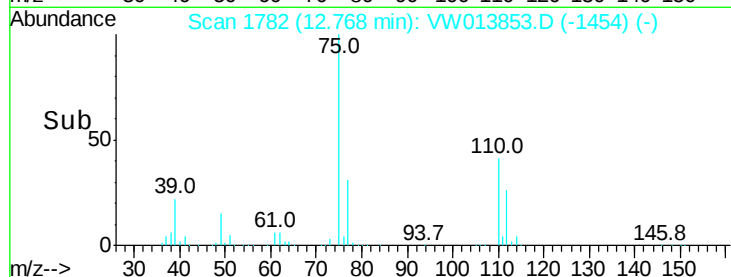
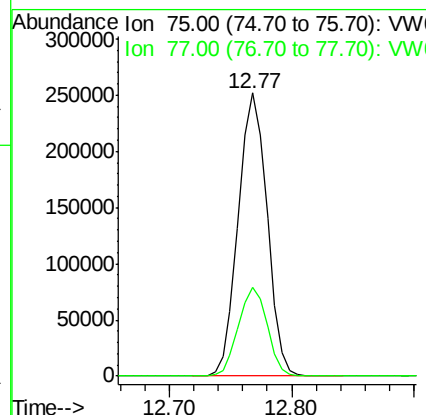
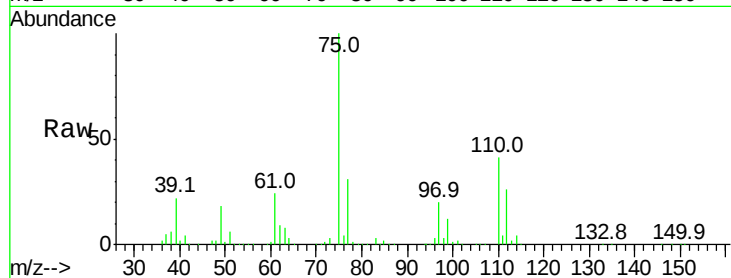




#59
 1,2,3-Trichloropropane
 Concen: 111.072 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. 0.00 min
 Lab File: VW013853.D
 Acq: 31 Oct 2019 12:22

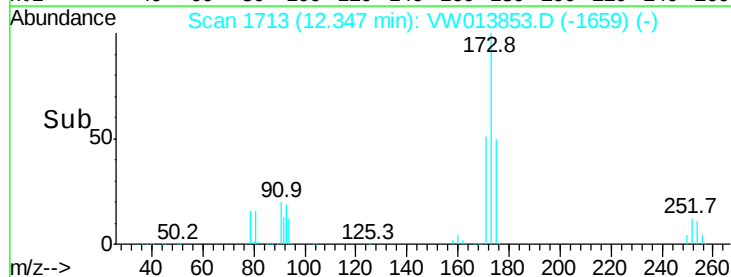
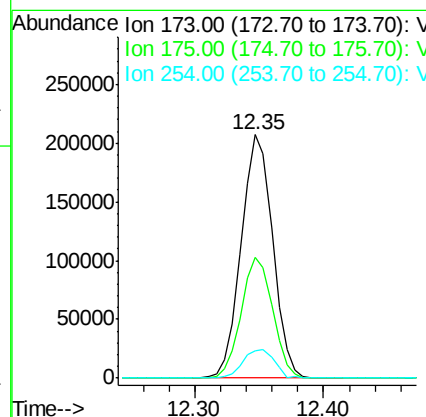
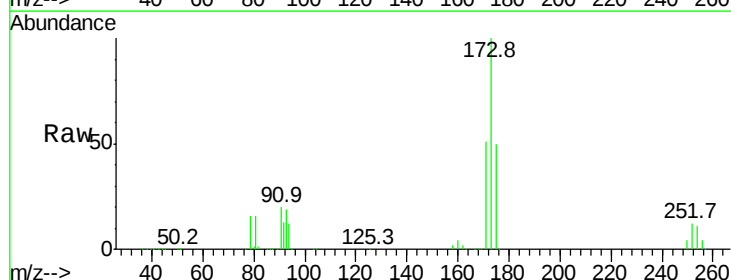
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD10002

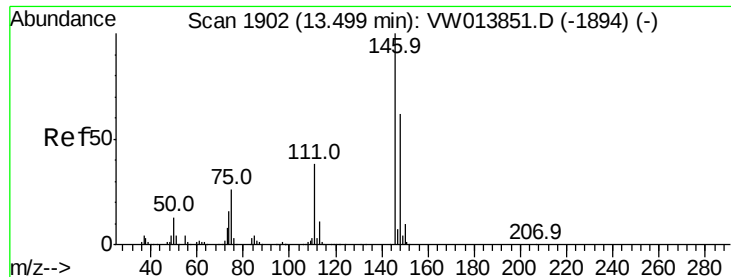
Tgt Ion: 75 Resp: 410841
 Ion Ratio Lower Upper
 75 100
 77 31.4 25.8 38.8



#62
 Bromoform
 Concen: 107.702 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. 0.00 min
 Lab File: VW013853.D
 Acq: 31 Oct 2019 12:22

Tgt Ion: 173 Resp: 349997
 Ion Ratio Lower Upper
 173 100
 175 49.8 39.1 58.7
 254 11.5 9.4 14.2





#63

1,3-Dichlorobenzene

Concen: 97.946 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD10002

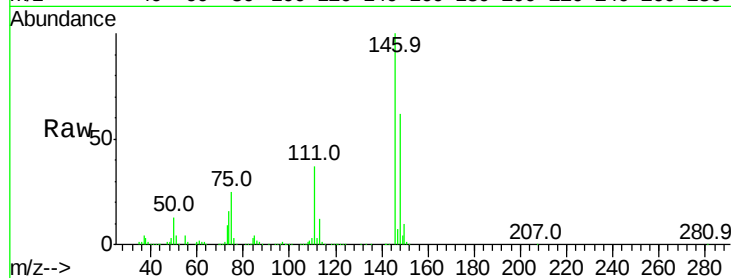
Tgt Ion:146 Resp: 1260236

Ion Ratio Lower Upper

146 100

111 37.5 26.5 49.1

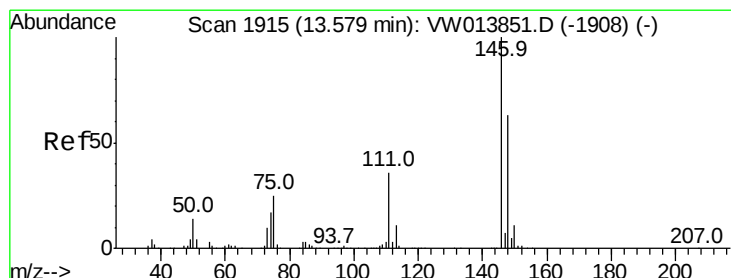
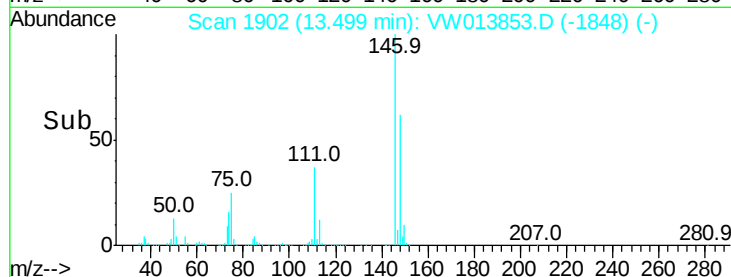
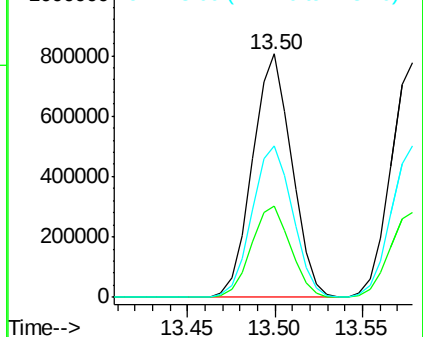
148 62.1 43.7 81.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 96.481 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

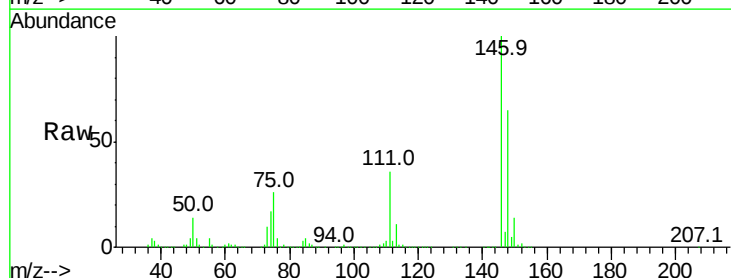
Tgt Ion:146 Resp: 1247444

Ion Ratio Lower Upper

146 100

111 36.5 25.0 46.4

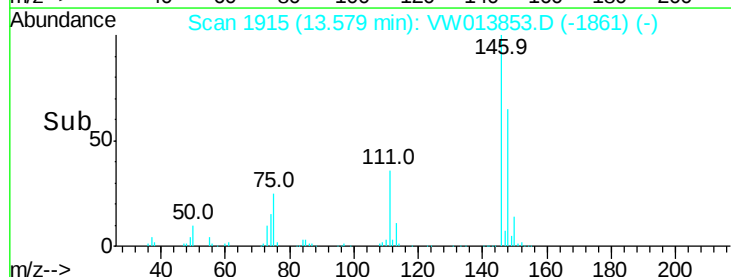
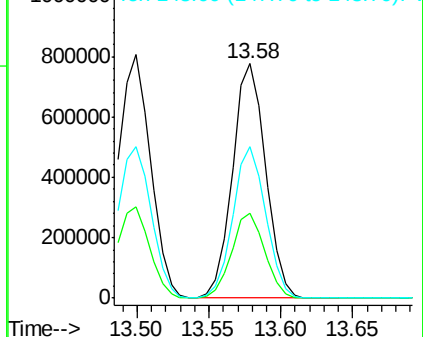
148 64.6 44.4 82.5

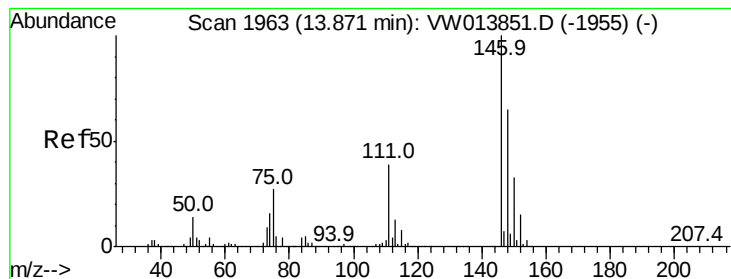


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 97.914 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD10002

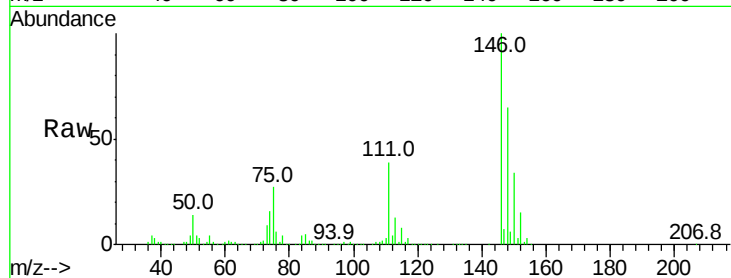
Tgt Ion:146 Resp: 1141468

Ion Ratio Lower Upper

146 100

111 39.5 31.0 46.4

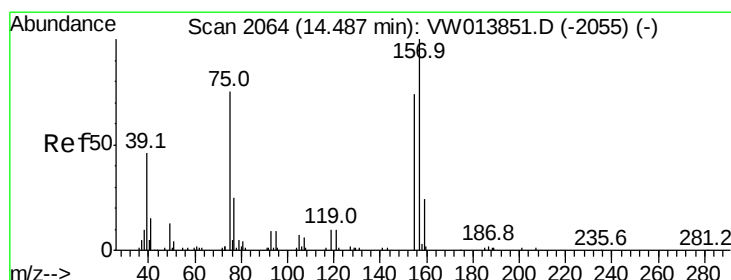
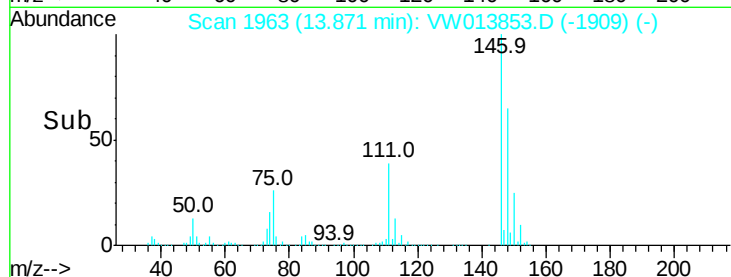
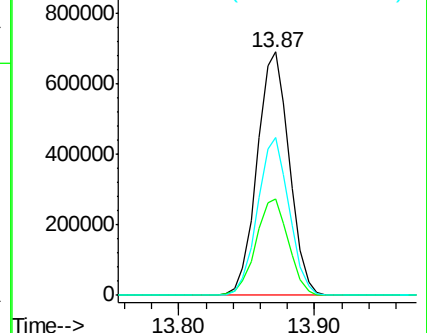
148 64.8 51.8 77.6



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: 119.521 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

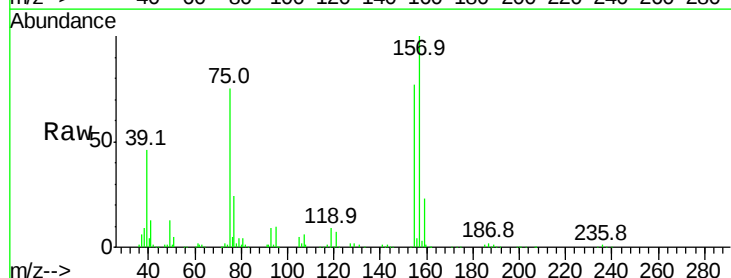
Tgt Ion: 75 Resp: 95771

Ion Ratio Lower Upper

75 100

157 133.0 106.2 159.2

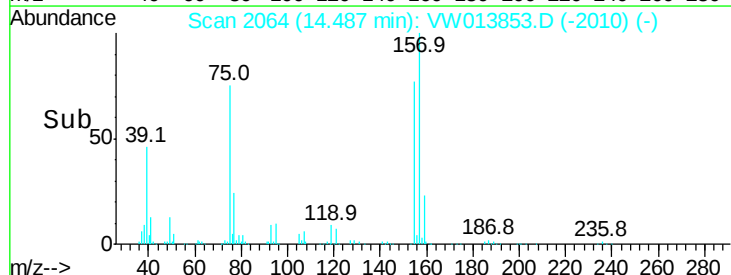
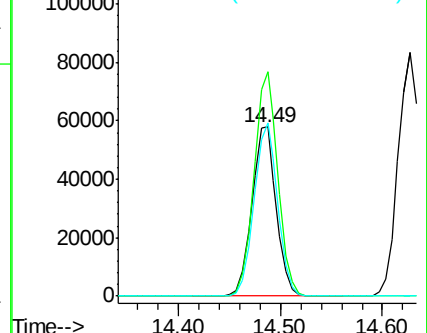
155 102.3 78.8 118.2

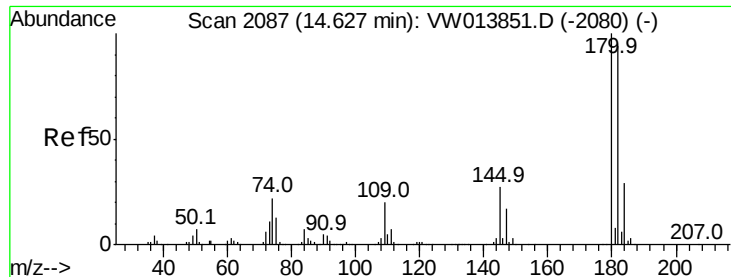


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

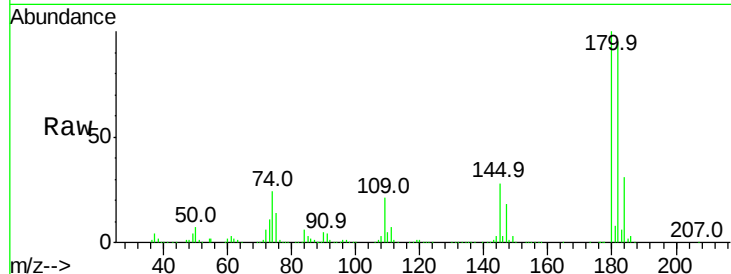




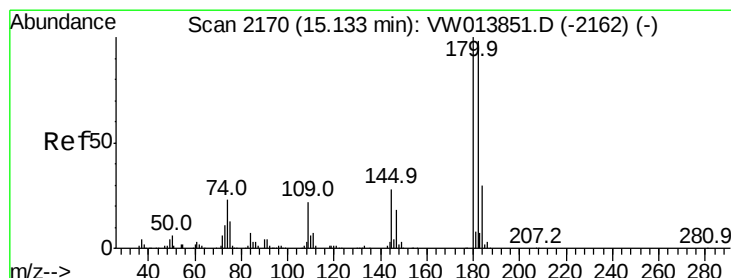
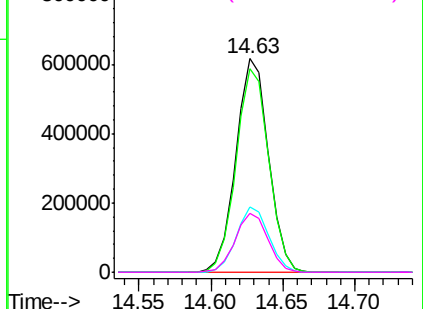
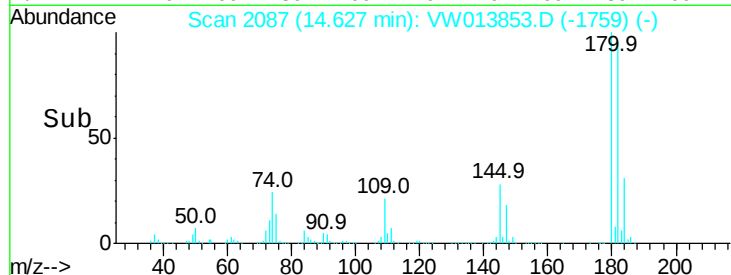
#67
 1,3,5-Trichlorobenzene
 Concen: 100.988 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW013853.D
 Acq: 31 Oct 2019 12:22

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD10002

Tgt Ion:180 Resp: 965981
 Ion Ratio Lower Upper
 180 100
 182 95.6 76.2 114.4
 184 30.3 24.1 36.1
 145 27.7 21.7 32.5

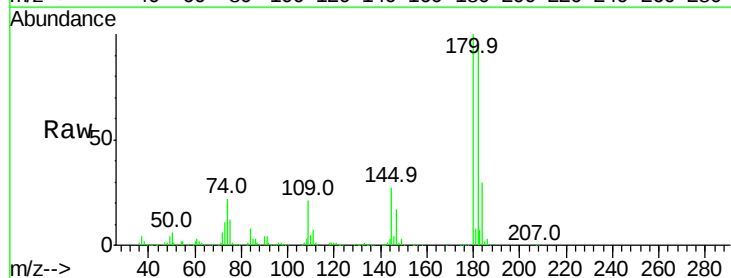


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

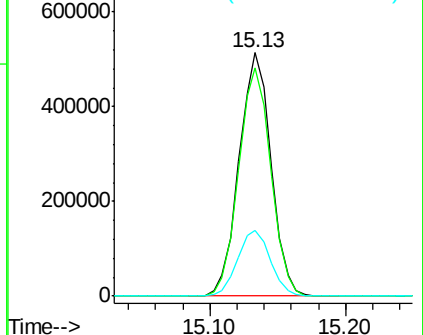
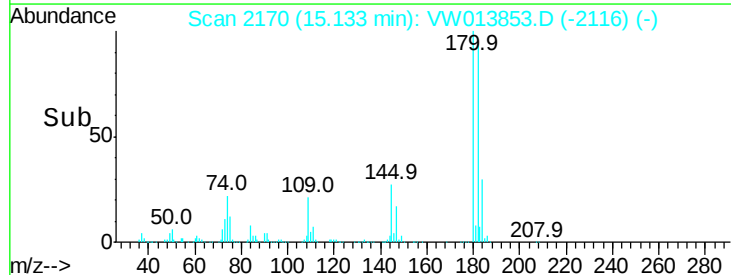


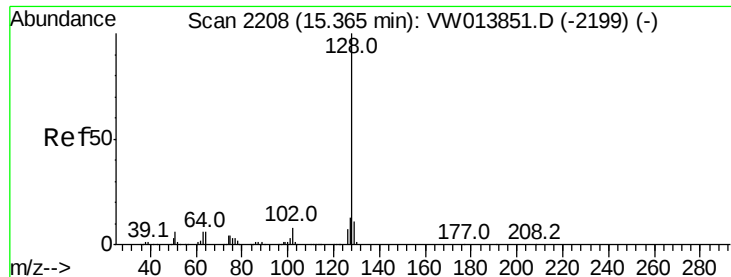
#68
 1,2,4-trichlorobenzene
 Concen: 103.376 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW013853.D
 Acq: 31 Oct 2019 12:22

Tgt Ion:180 Resp: 839471
 Ion Ratio Lower Upper
 180 100
 182 94.7 74.8 112.2
 145 27.9 22.4 33.6



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: 117.574 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD10002

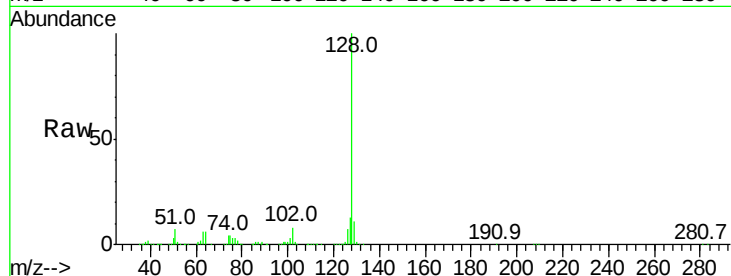
Tgt Ion:128 Resp: 1730058

Ion Ratio Lower Upper

128 100

129 11.0 8.6 13.0

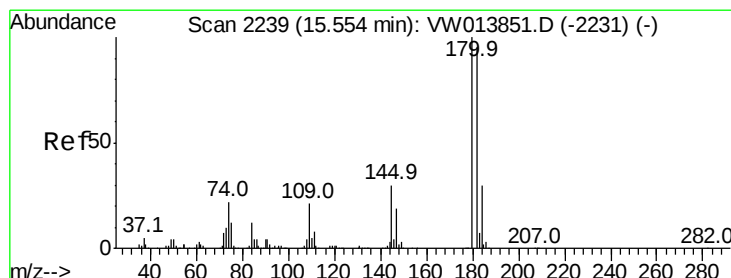
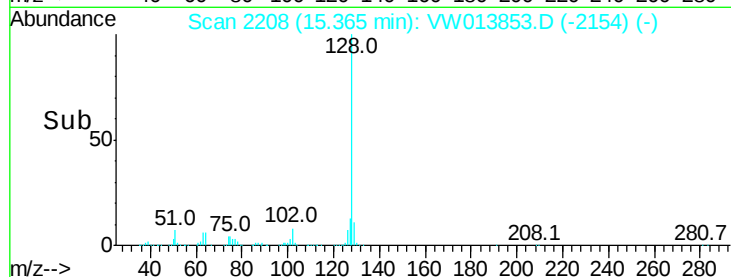
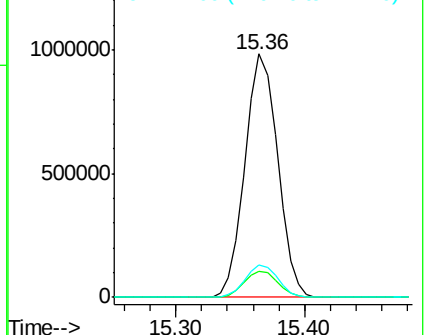
127 13.3 10.5 15.7



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: 102.346 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW013853.D

Acq: 31 Oct 2019 12:22

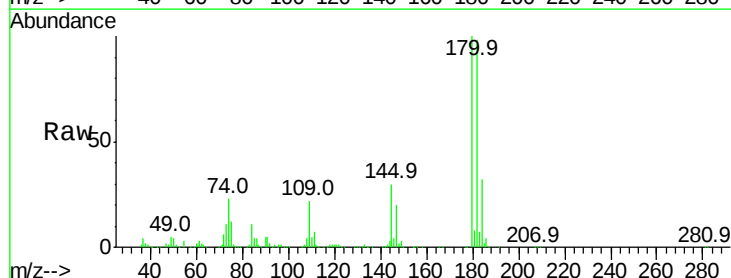
Tgt Ion:180 Resp: 744284

Ion Ratio Lower Upper

180 100

182 97.1 78.0 117.0

145 30.2 23.9 35.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

