

Data File : VW014210.D
Acq On : 05 Dec 2019 12:22
Operator : SY/VA
Sample : VSTD2.501
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.501

Quant Time: Dec 05 14:17:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
Quant Title : VOC Analysis
QLast Update : Thu Dec 05 14:14:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1245378	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1120055	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	526948	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	48478	2.44	ug/L	0.00
7) Chloroethane-d5	2.89	69	33172	2.06	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.02	63	78624	1.93	ug/L	0.00
20) 2-Butanone-d5	7.07	46	18531	3.21	ug/L	0.00
24) Chloroform-d	7.64	84	68679	1.79	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.30	65	37709	1.96	ug/L	0.00
29) Benzene-d6	8.27	84	145946	1.84	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	43227	1.86	ug/L	0.00
37) Toluene-d8	10.32	98	125634	1.67	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.57	79	16503	1.66	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	13314	3.02	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	35554	2.02	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	44338	2.09	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	31795	2.147 ug/L	94
3) Chloromethane	2.21	50	33384	2.538 ug/L	99
5) Vinyl chloride	2.36	62	47265	2.301 ug/L	93
6) Bromomethane	2.78	94	28487	2.240 ug/L	95
8) Chloroethane	2.92	64	25358	2.075 ug/L	89
9) Trichlorofluoromethane	3.25	101	21392	1.527 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	42285	2.045 ug/L	98
12) 1,1-Dichloroethene	4.04	96	41809	1.989 ug/L	78
13) Acetone	4.12	43	24963	4.250 ug/L	100
14) Carbon disulfide	4.38	76	127733	2.135 ug/L	97
15) Methyl Acetate	4.67	43	22008	2.316 ug/L	99
16) Methylene chloride	4.92	84	54377	2.268 ug/L	96
17) Methyl tert-butyl Ether	5.42	73	51501	1.899 ug/L	# 78
18) trans-1,2-Dichloroethene	5.42	96	44773	2.042 ug/L	97
19) 1,1-Dichloroethane	6.21	63	80843	2.189 ug/L	99
21) 2-Butanone	7.17	43	28486	3.775 ug/L	96
22) cis-1,2-Dichloroethene	7.17	96	46078	1.997 ug/L	98
23) Bromochloromethane	7.51	128	21568	2.130 ug/L	92
25) Chloroform	7.67	83	78433	2.163 ug/L	99
27) 1,2-Dichloroethane	8.40	62	52534	2.393 ug/L	96
30) Cyclohexane	7.95	56	63971	1.785 ug/L	96
31) 1,1,1-Trichloroethane	7.87	97	56838	2.025 ug/L	95
32) Carbon tetrachloride	8.06	117	54760	2.032 ug/L	98
34) Benzene	8.32	78	181890	2.214 ug/L	100
35) Trichloroethene	9.09	95	46990	2.144 ug/L	94
36) Methylcyclohexane	9.33	83	72179	1.837 ug/L	97
40) 1,2-Dichloropropane	9.37	63	46201	2.336 ug/L	99
41) Bromodichloromethane	9.64	83	55207	2.309 ug/L	91
42) cis-1,3-Dichloropropene	10.07	75	61741	1.978 ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	54454	4.170 ug/L	98

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ClientSampleId :
VSTD2.501

Quant Time: Dec 05 14:17:00 2019
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Quant Title : VOC Analysis
QLast Update : Thu Dec 05 14:14:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.38	91	183114	2.044	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	51421	2.083	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	34938	2.404	ug/L	94
47) Tetrachloroethene	10.86	164	38828	1.988	ug/L	92
49) 2-Hexanone	10.97	43	36868	3.916	ug/L #	94
50) Dibromochloromethane	11.12	129	36393	2.131	ug/L	92
51) 1,2-Dibromoethane	11.23	107	32041	2.273	ug/L	97
52) Chlorobenzene	11.66	112	123190	2.194	ug/L	95
53) Ethylbenzene	11.73	91	194298	1.977	ug/L	99
54) m,p-Xylene	11.84	106	73046	1.912	ug/L	91
55) o-xylene	12.16	106	66280	1.853	ug/L	95
56) Styrene	12.18	104	111227	1.841	ug/L	99
57) Isopropylbenzene	12.46	105	176442	1.794	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	43270	2.550	ug/L	96
59) 1,2,3-Trichloropropane	12.77	75	32114	2.517	ug/L	97
62) Bromoform	12.35	173	21500	2.490	ug/L	97
63) 1,3-Dichlorobenzene	13.50	146	87258	2.358	ug/L	95
64) 1,4-Dichlorobenzene	13.58	146	90664	2.480	ug/L	96
65) 1,2-Dichlorobenzene	13.87	146	79857	2.437	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.48	75	6826	3.059	ug/L #	69
67) 1,3,5-Trichlorobenzene	14.63	180	59892	2.124	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	39771	1.794	ug/L	98
69) Naphthalene	15.36	128	62557	1.588	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	39165	2.002	ug/L	98

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

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ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_W
ClientSampleId :
VSTD2.501

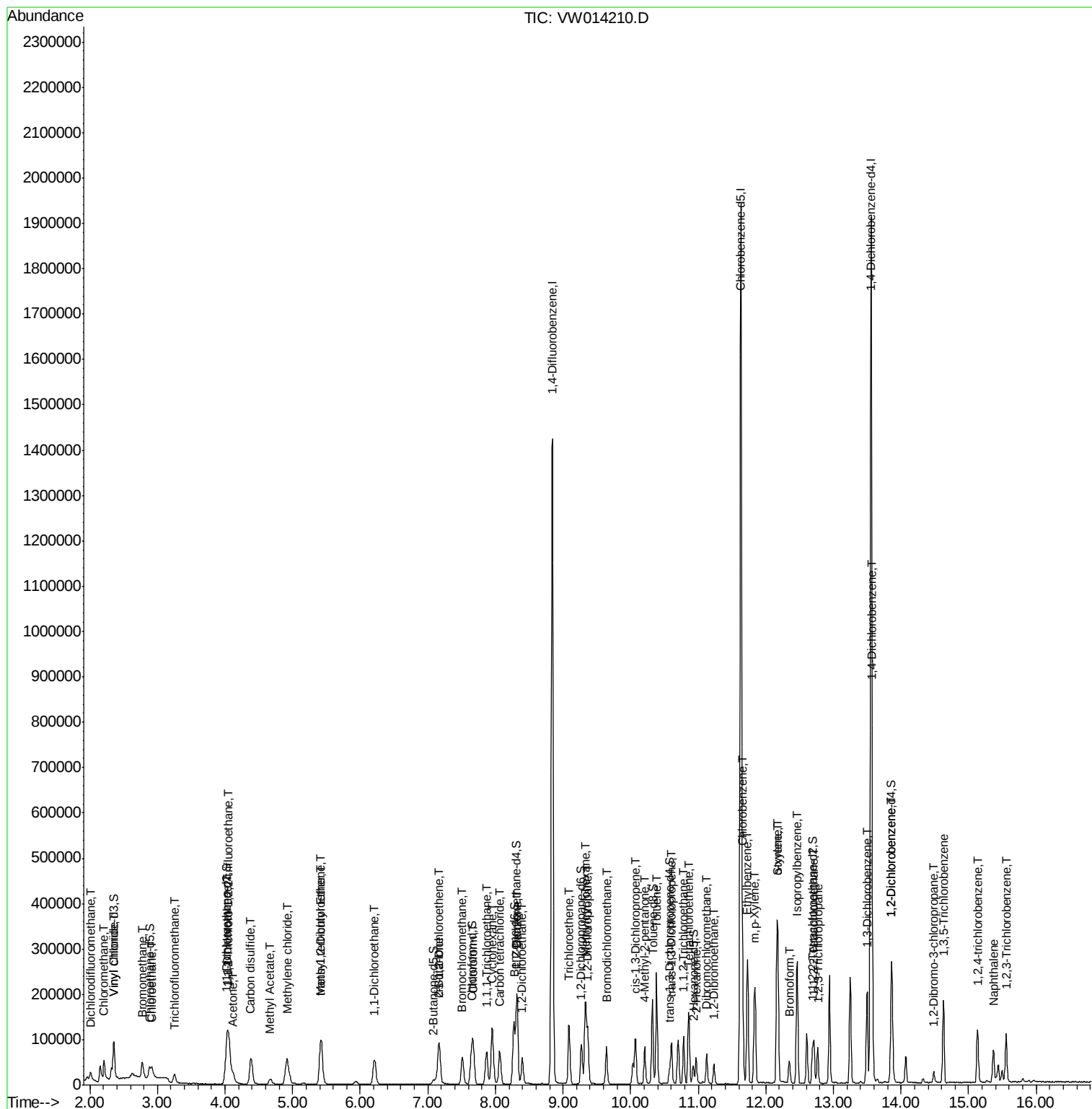
Quant Time: Dec 05 14:17:00 2019

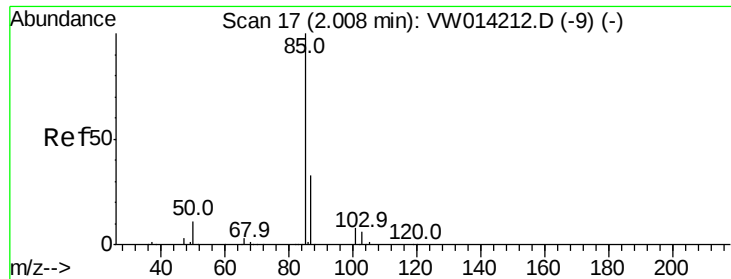
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M

Quant Title : VOC Analysis

QLast Update : Thu Dec 05 14:14:45 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.147 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

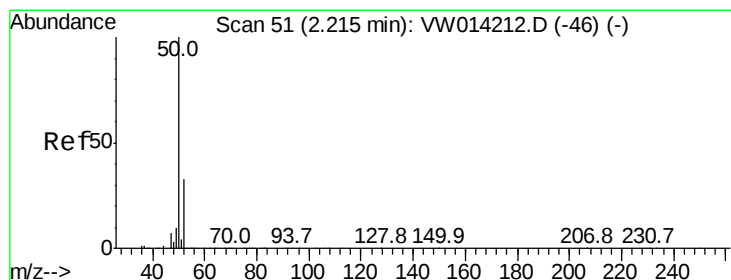
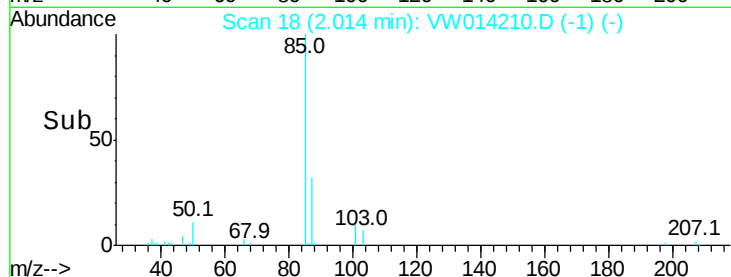
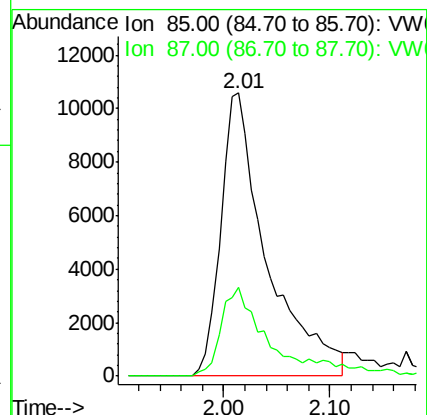
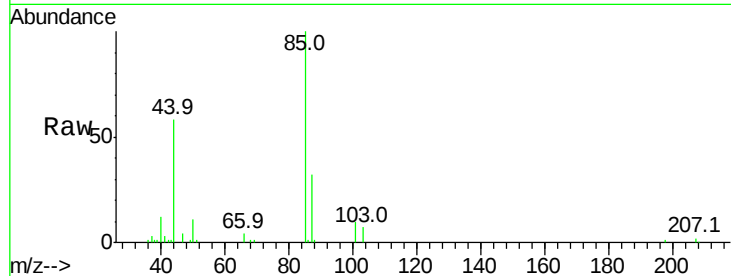
VSTD2.501

Tgt Ion: 85 Resp: 31795

Ion Ratio Lower Upper

85 100

87 28.2 22.1 41.1



#3

Chloromethane

Concen: 2.538 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW014210.D

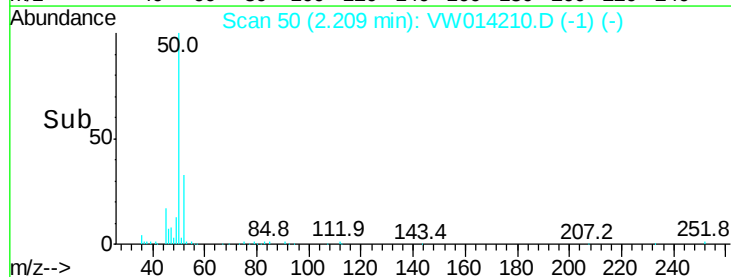
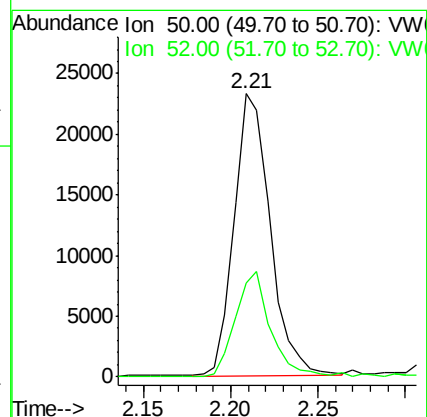
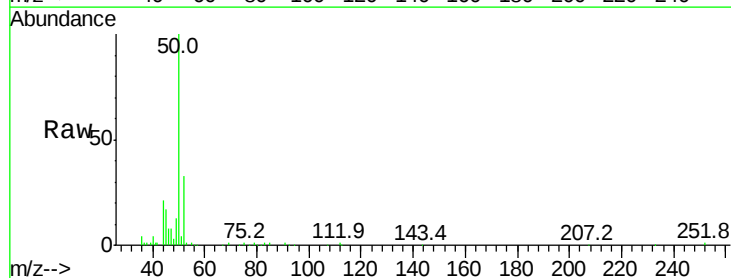
Acq: 05 Dec 2019 12:22

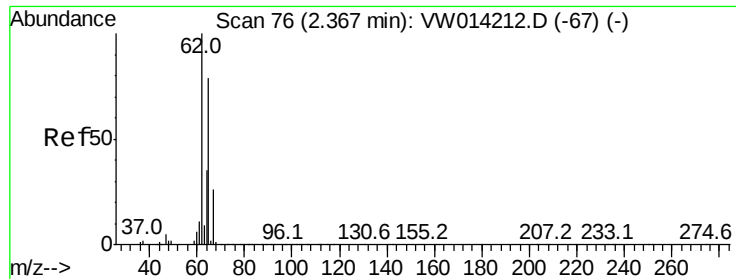
Tgt Ion: 50 Resp: 33384

Ion Ratio Lower Upper

50 100

52 33.4 23.8 44.2





#5

Vinyl chloride

Concen: 2.301 ug/L

RT: 2.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

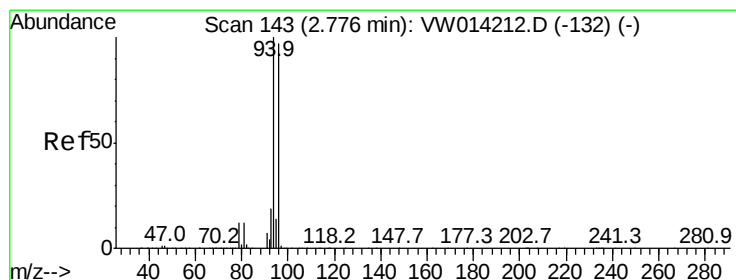
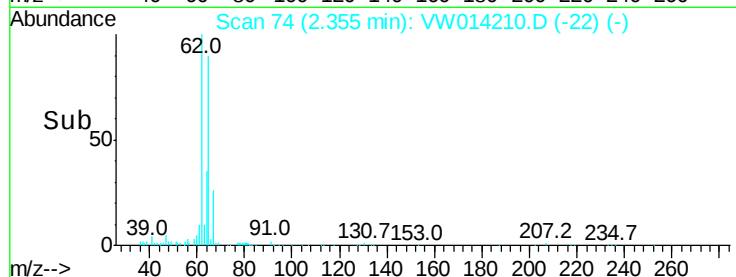
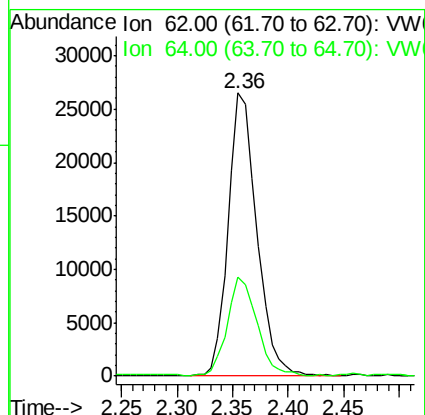
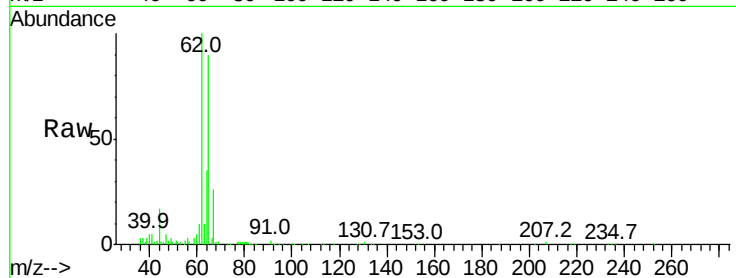
VSTD2.501

Tgt Ion: 62 Resp: 47265

Ion Ratio Lower Upper

62 100

64 35.0 21.8 40.4



#6

Bromomethane

Concen: 2.240 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW014210.D

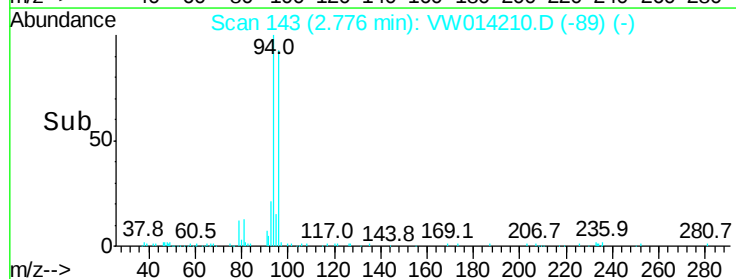
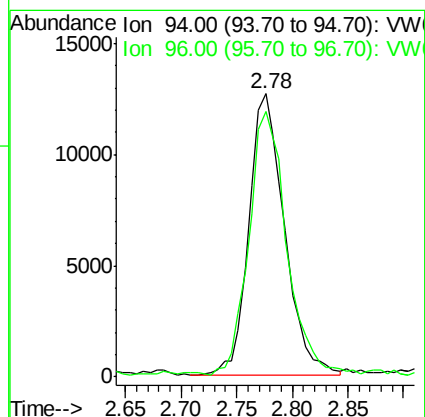
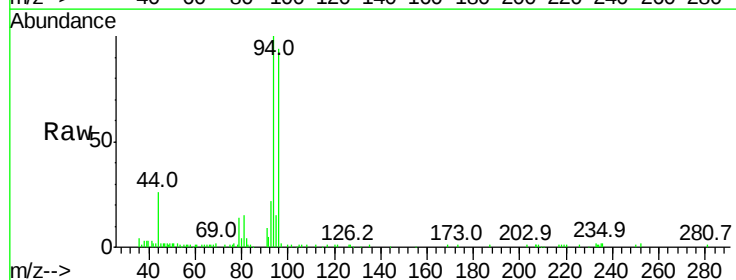
Acq: 05 Dec 2019 12:22

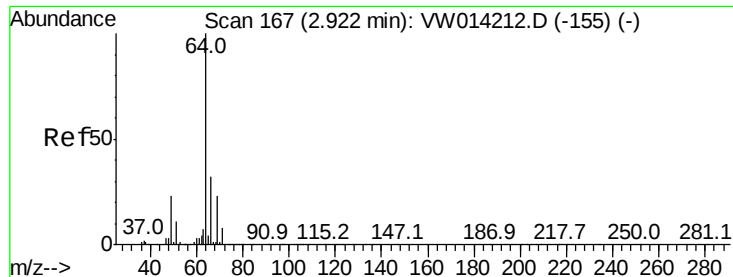
Tgt Ion: 94 Resp: 28487

Ion Ratio Lower Upper

94 100

96 99.0 9.4 178.8





#8

Chloroethane

Concen: 2.075 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

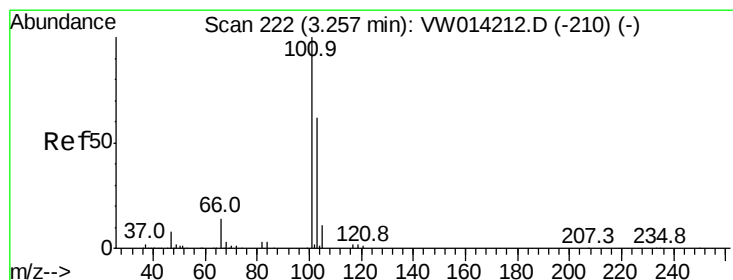
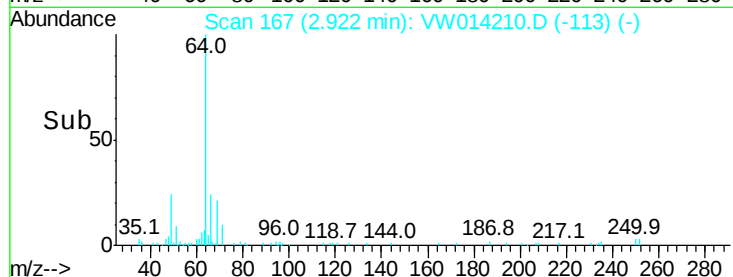
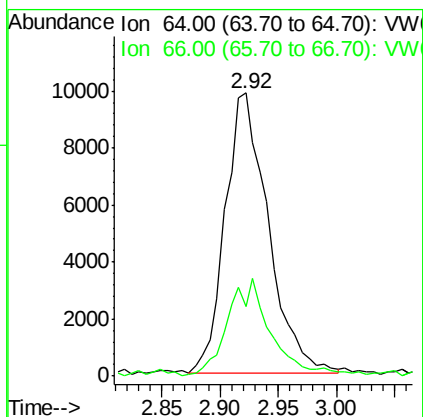
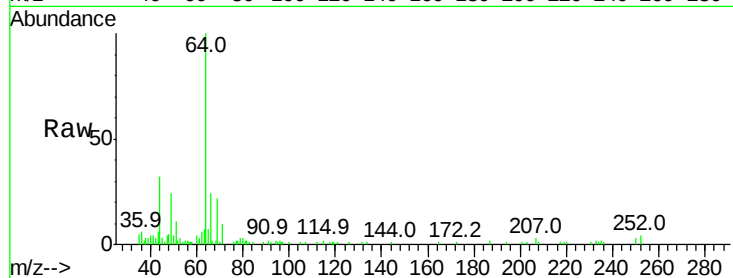
VSTD2.501

Tgt Ion: 64 Resp: 25358

Ion Ratio Lower Upper

64 100

66 24.4 21.2 39.4



#9

Trichlorofluoromethane

Concen: 1.527 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW014210.D

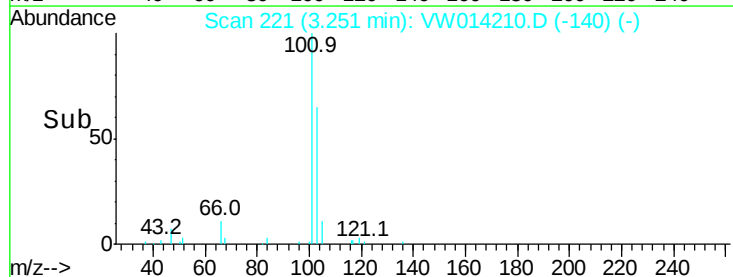
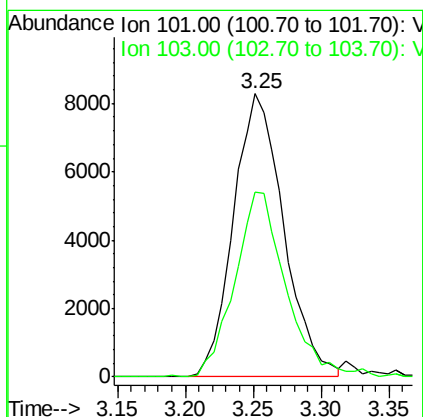
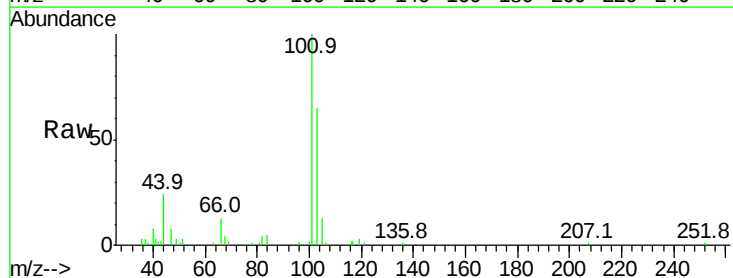
Acq: 05 Dec 2019 12:22

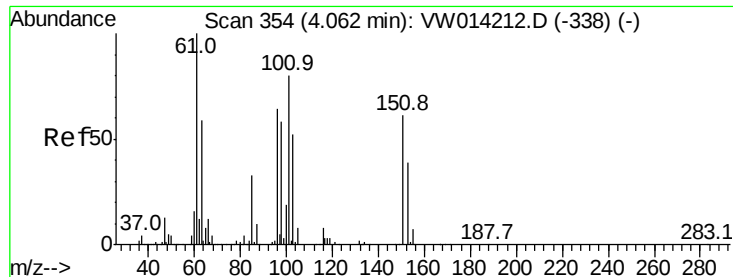
Tgt Ion: 101 Resp: 21392

Ion Ratio Lower Upper

101 100

103 65.6 45.4 84.2





#11

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

Concen: 2.045 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

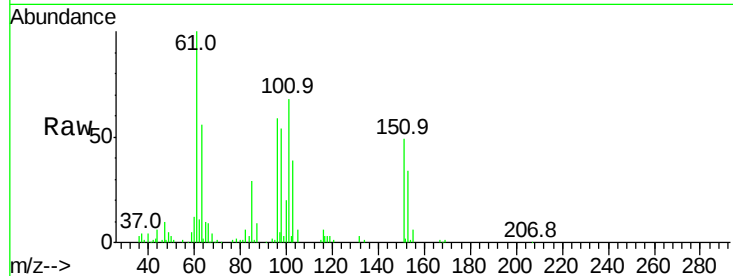
Tgt Ion:101 Resp: 42285

Ion Ratio Lower Upper

101 100

85 39.3 31.4 47.2

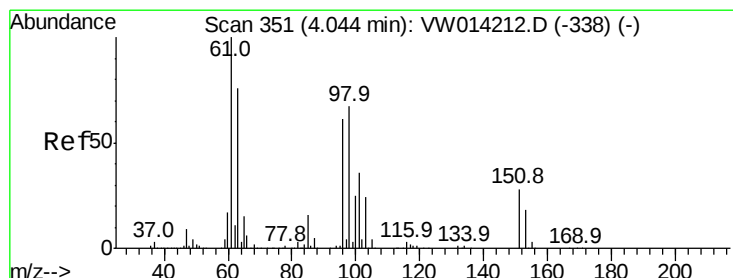
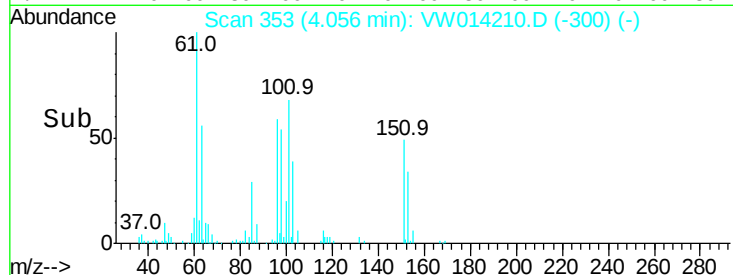
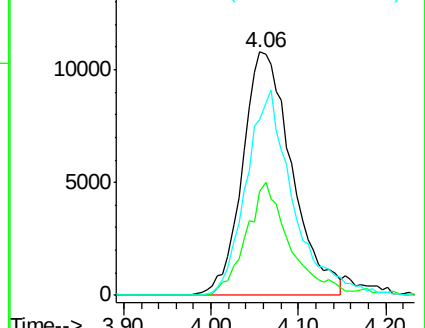
151 80.4 66.9 100.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 1.989 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

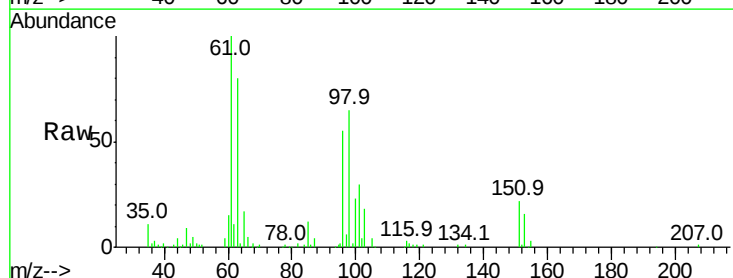
Tgt Ion: 96 Resp: 41809

Ion Ratio Lower Upper

96 100

61 180.5 109.8 204.0

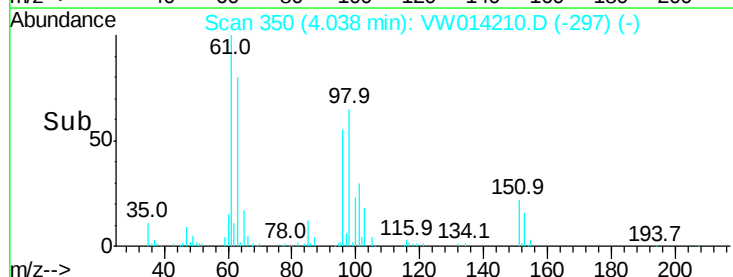
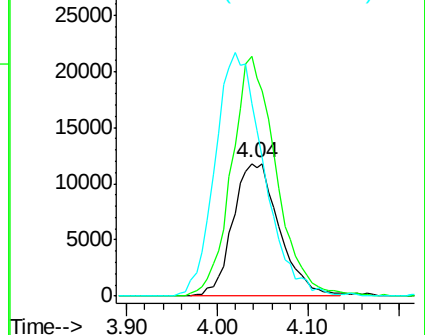
63 144.6 80.7 149.9

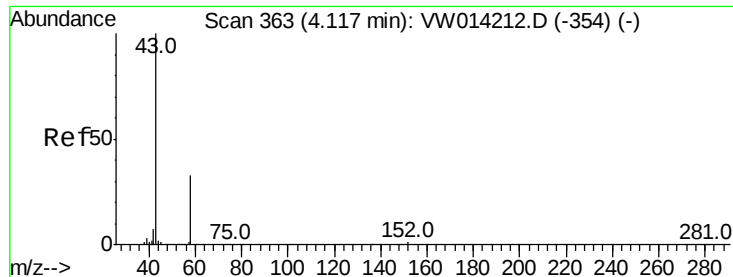


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 4.250 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

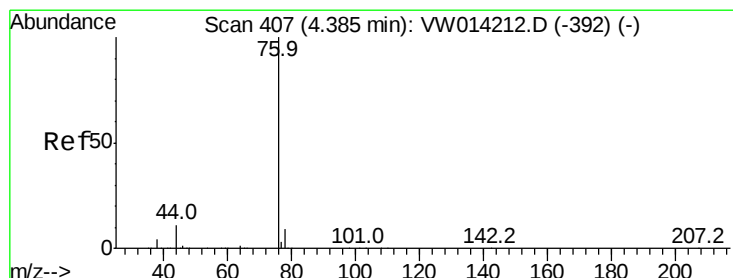
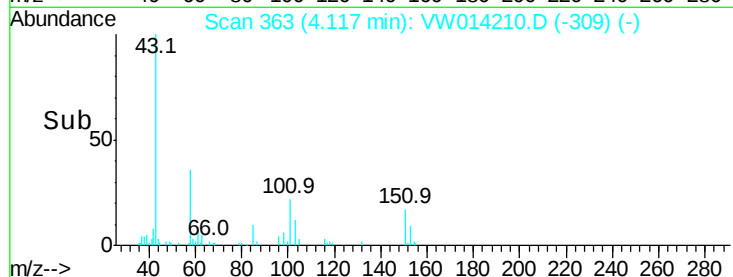
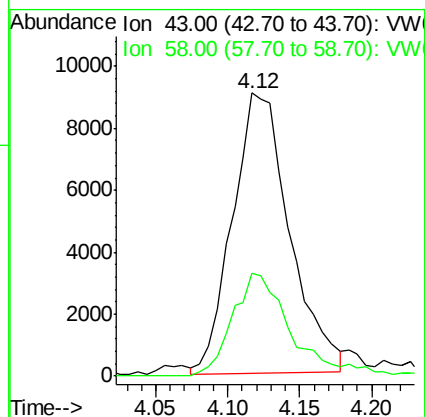
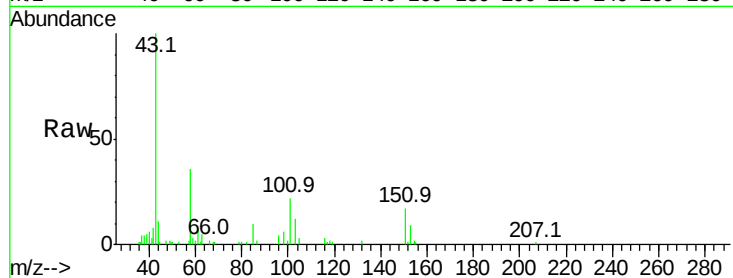
VSTD2.501

Tgt Ion: 43 Resp: 24963

Ion Ratio Lower Upper

43 100

58 32.7 0.0 65.4



#14

Carbon disulfide

Concen: 2.135 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW014210.D

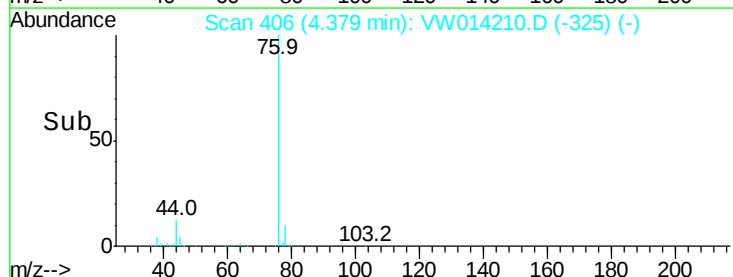
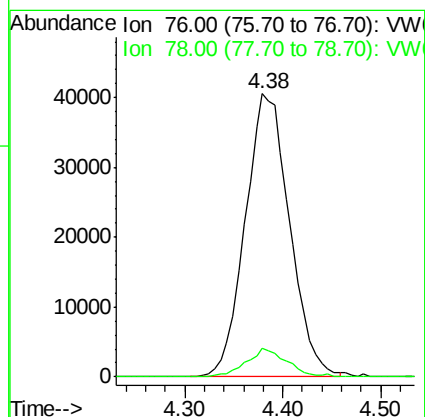
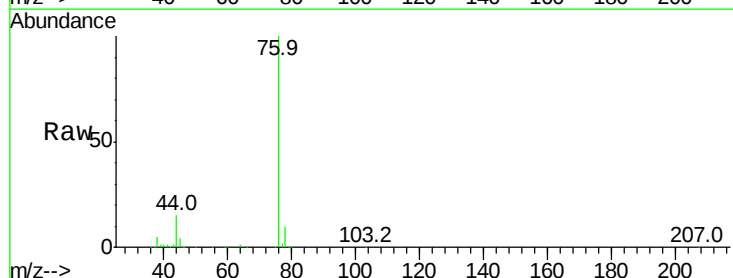
Acq: 05 Dec 2019 12:22

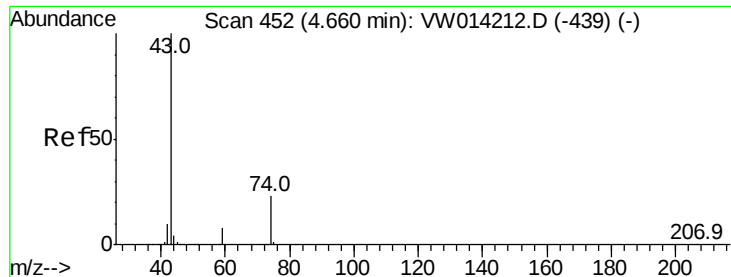
Tgt Ion: 76 Resp: 127733

Ion Ratio Lower Upper

76 100

78 10.0 7.2 10.8

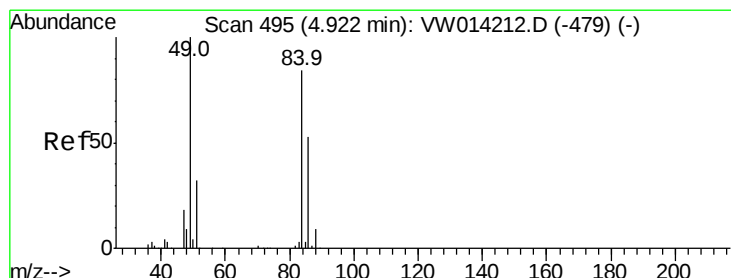
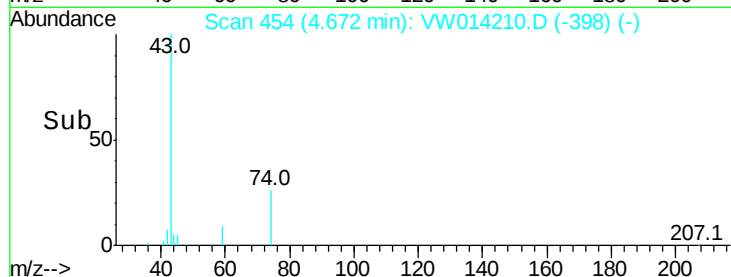
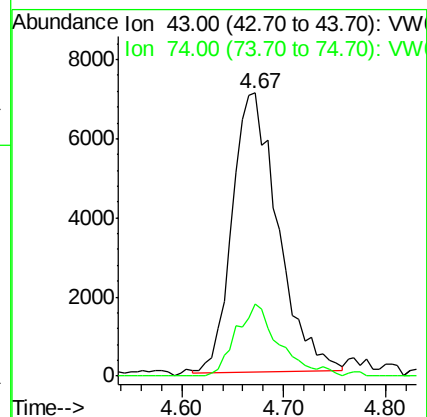
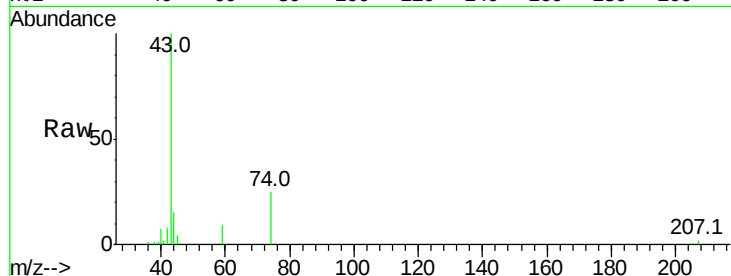




#15
Methyl Acetate
Concen: 2.316 ug/L
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW014210.D
Acq: 05 Dec 2019 12:22

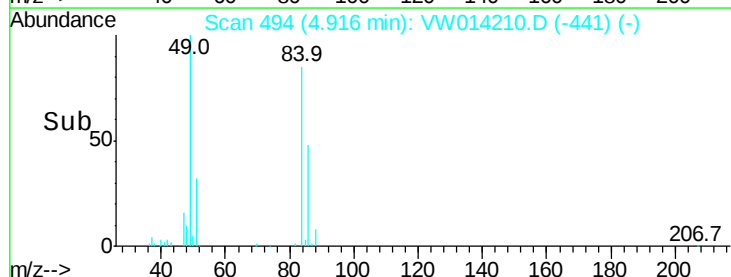
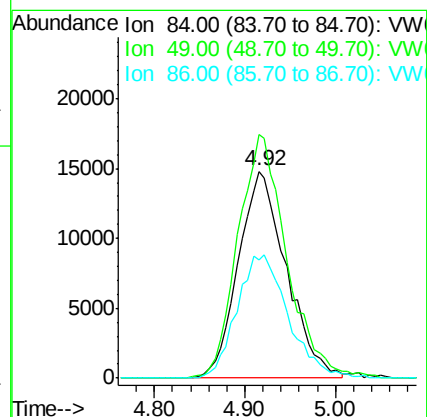
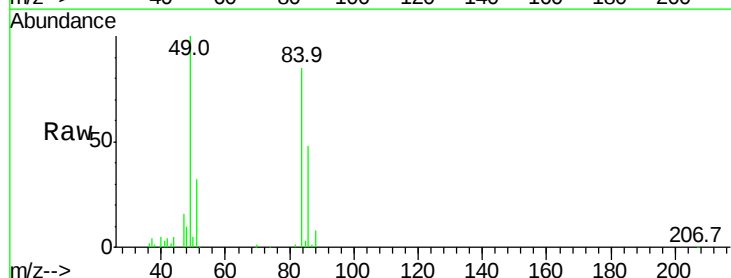
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.501

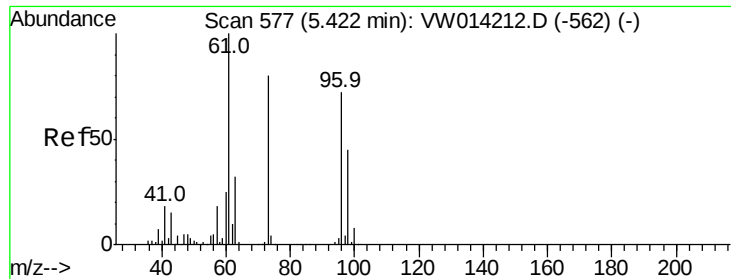
Tgt Ion: 43 Resp: 22008
Ion Ratio Lower Upper
43 100
74 23.5 19.3 28.9



#16
Methylene chloride
Concen: 2.268 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW014210.D
Acq: 05 Dec 2019 12:22

Tgt Ion: 84 Resp: 54377
Ion Ratio Lower Upper
84 100
49 117.8 84.2 156.4
86 57.0 43.7 81.1

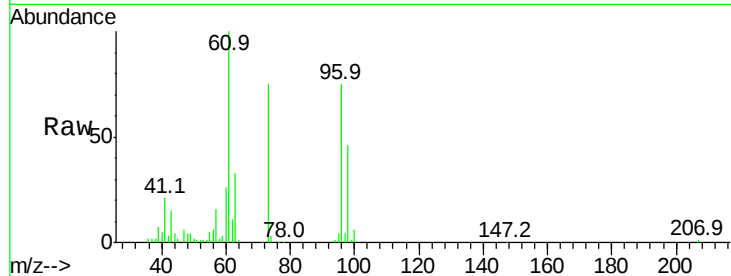




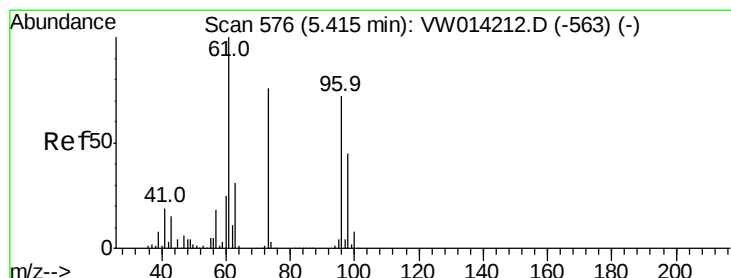
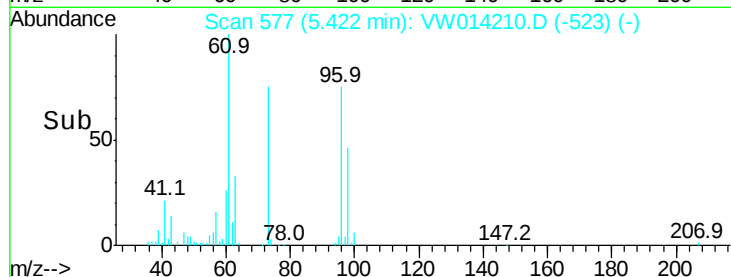
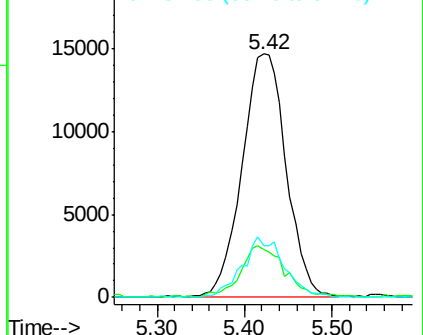
#17
Methyl tert-butyl Ether
Concen: 1.899 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014210.D
Acq: 05 Dec 2019 12:22

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.501

Tgt Ion: 73 Resp: 51501
Ion Ratio Lower Upper
73 100
43 19.1 15.5 23.3
57 3.1 18.2 27.4#

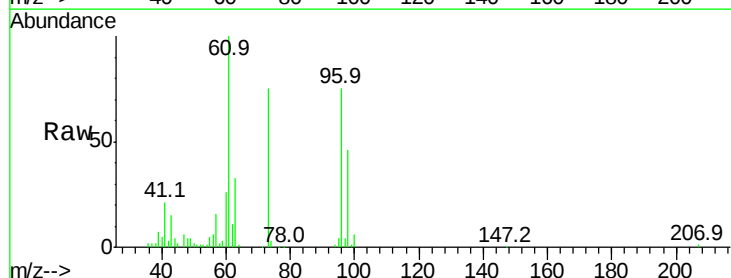


Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW

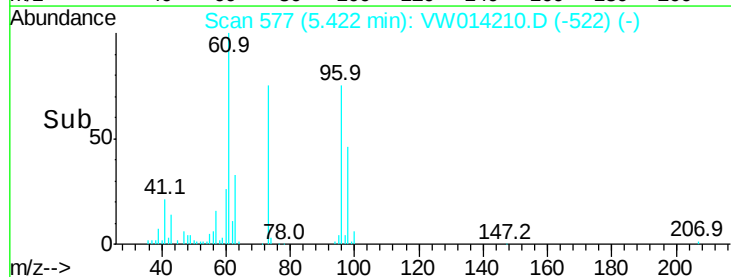
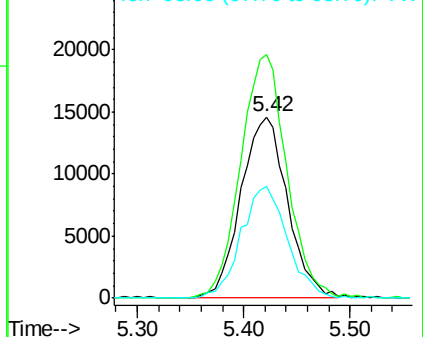


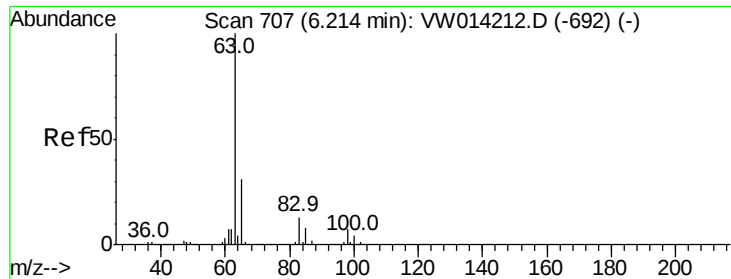
#18
trans-1,2-Dichloroethene
Concen: 2.042 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.01 min
Lab File: VW014210.D
Acq: 05 Dec 2019 12:22

Tgt Ion: 96 Resp: 44773
Ion Ratio Lower Upper
96 100
61 134.1 90.6 168.2
98 61.5 42.9 79.7



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

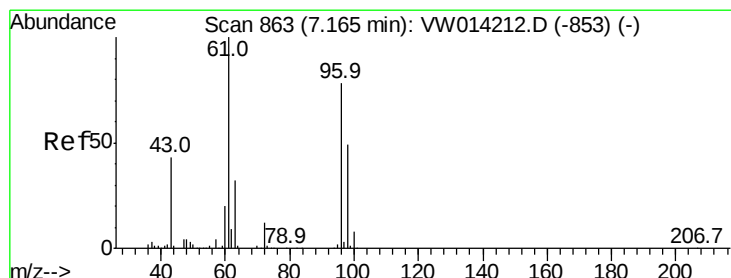
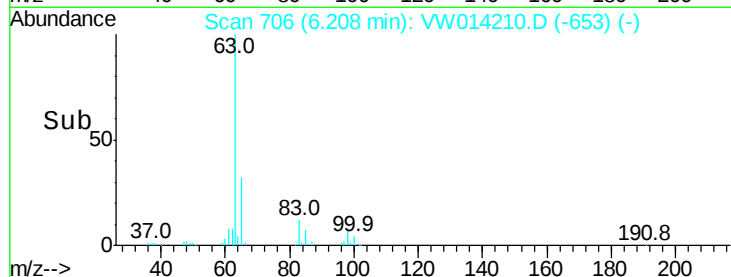
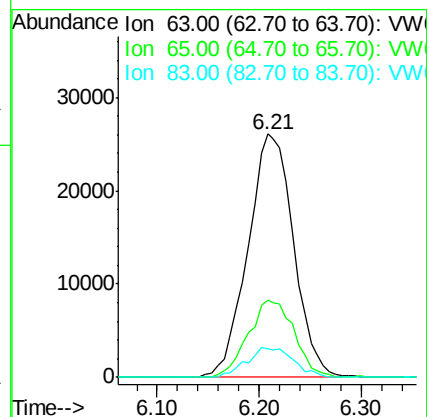
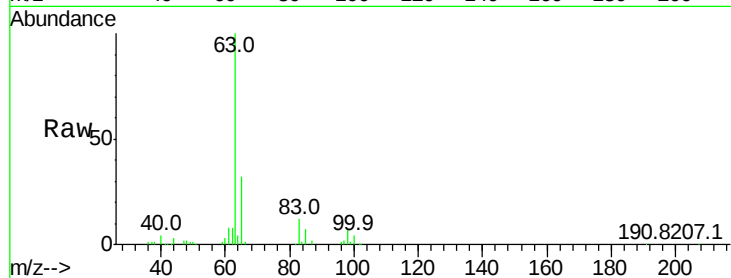




#19
 1,1-Dichloroethane
 Concen: 2.189 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.01 min
 Lab File: VW014210.D
 Acq: 05 Dec 2019 12:22

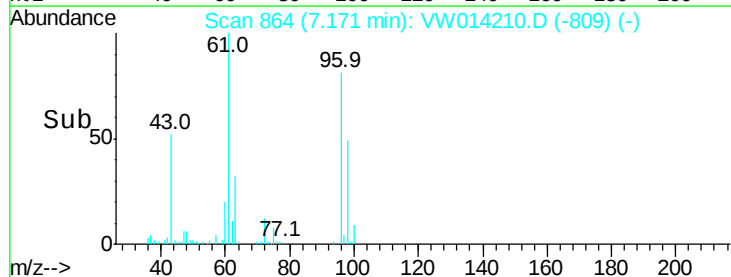
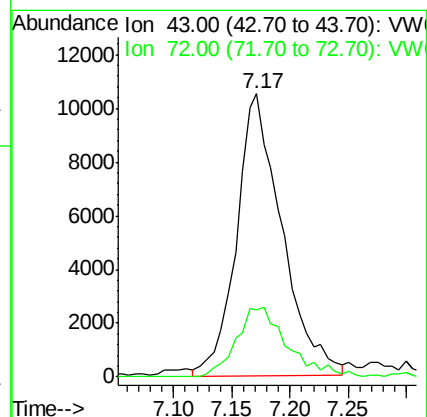
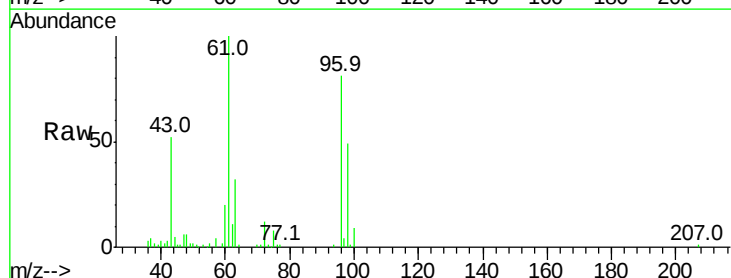
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.501

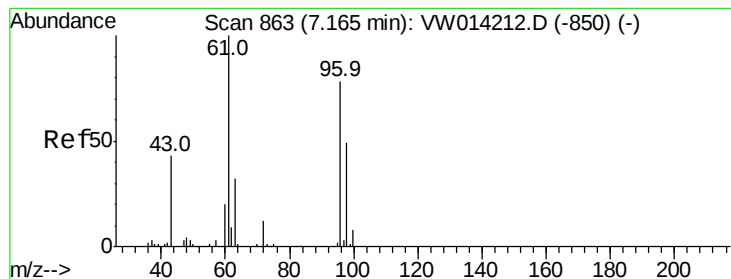
Tgt Ion: 63 Resp: 80843
 Ion Ratio Lower Upper
 63 100
 65 31.8 22.1 41.1
 83 11.8 9.0 16.6



#21
 2-Butanone
 Concen: 3.775 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW014210.D
 Acq: 05 Dec 2019 12:22

Tgt Ion: 43 Resp: 28486
 Ion Ratio Lower Upper
 43 100
 72 26.2 14.1 42.2





#22

cis-1,2-Dichloroethene

Concen: 1.997 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

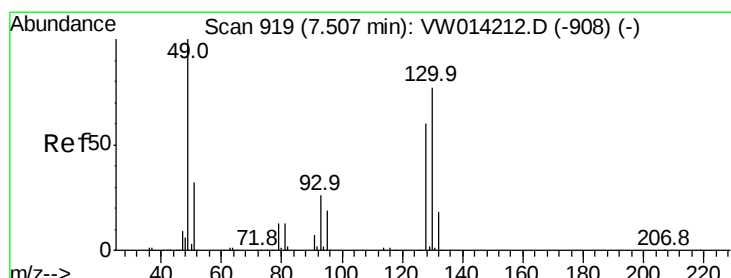
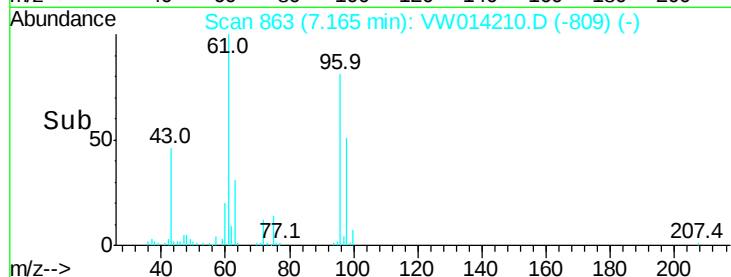
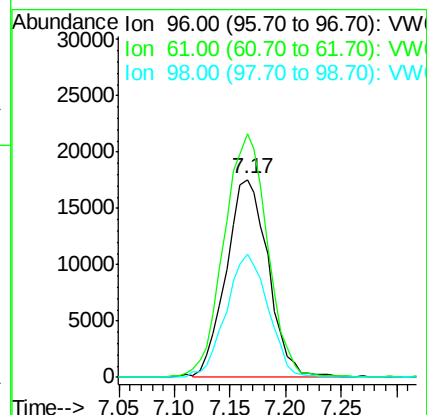
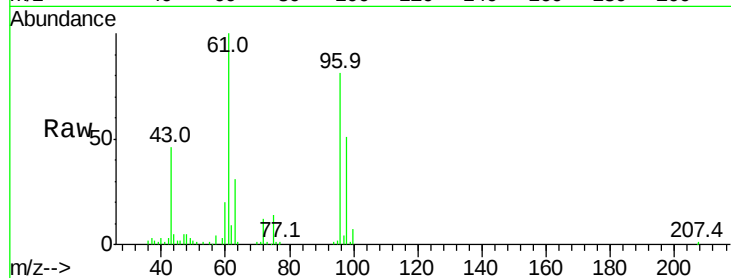
Tgt Ion: 96 Resp: 46078

Ion Ratio Lower Upper

96 100

61 123.3 86.9 161.5

98 62.4 45.5 84.5



#23

Bromochloromethane

Concen: 2.130 ug/L

RT: 7.51 min Scan# 920

Delta R.T. 0.01 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Tgt Ion: 128 Resp: 21568

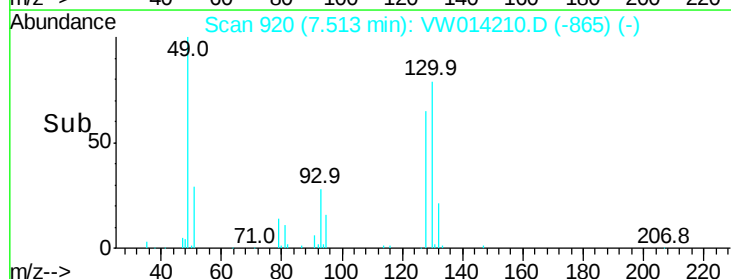
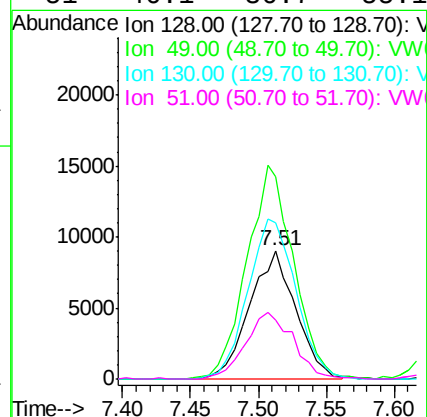
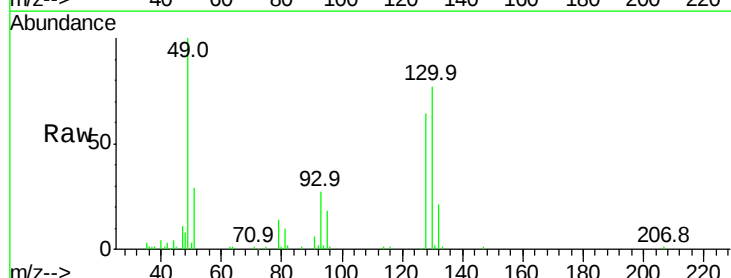
Ion Ratio Lower Upper

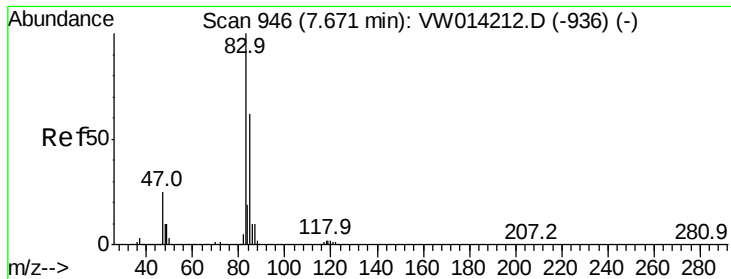
128 100

49 157.1 95.1 176.5

130 121.6 85.0 158.0

51 46.1 36.7 55.1





#25

Chloroform

Concen: 2.163 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

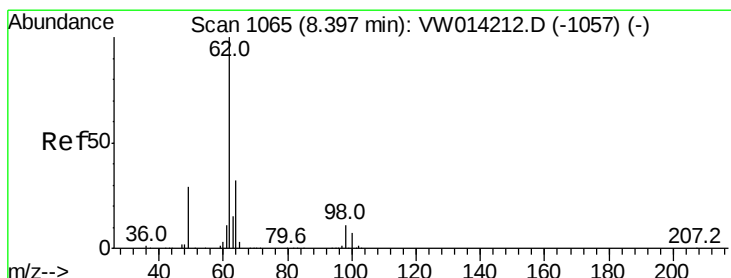
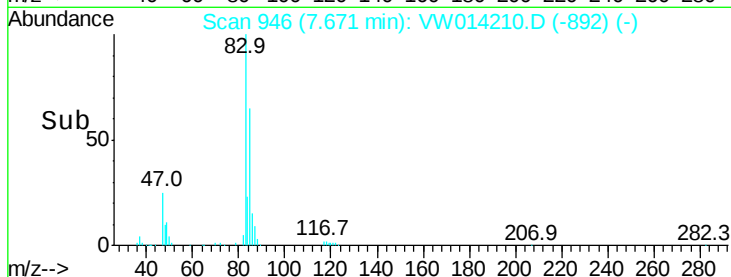
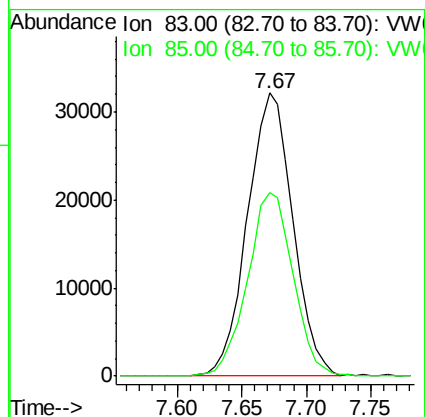
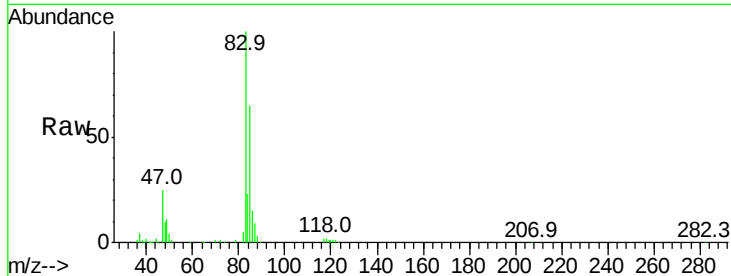
VSTD2.501

Tgt Ion: 83 Resp: 78433

Ion Ratio Lower Upper

83 100

85 65.1 46.1 85.7



#27

1,2-Dichloroethane

Concen: 2.393 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW014210.D

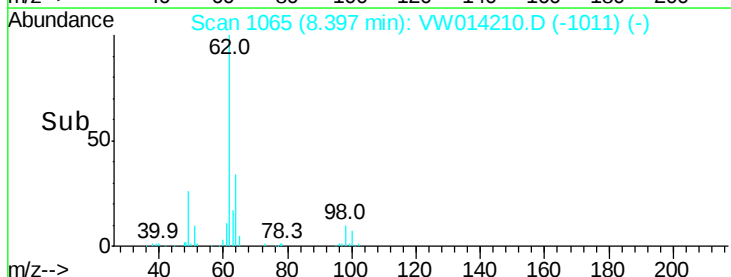
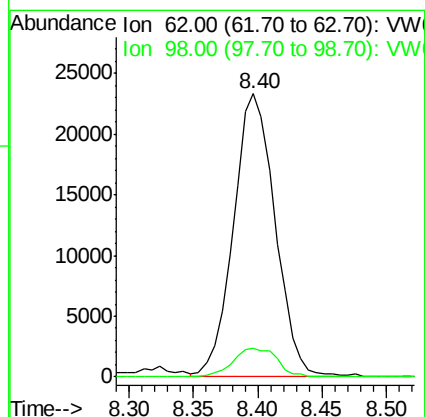
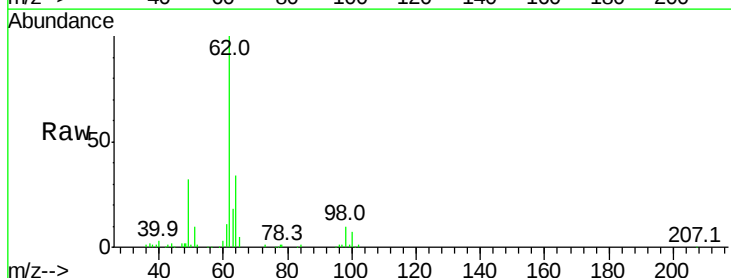
Acq: 05 Dec 2019 12:22

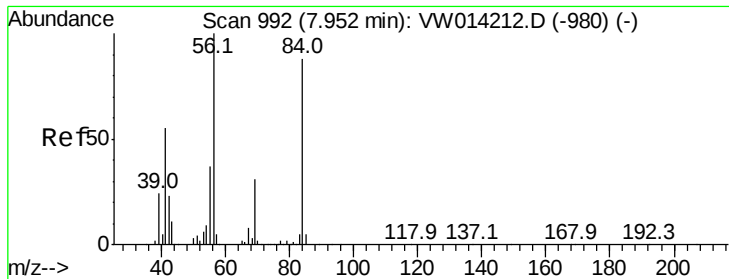
Tgt Ion: 62 Resp: 52534

Ion Ratio Lower Upper

62 100

98 10.0 9.3 13.9

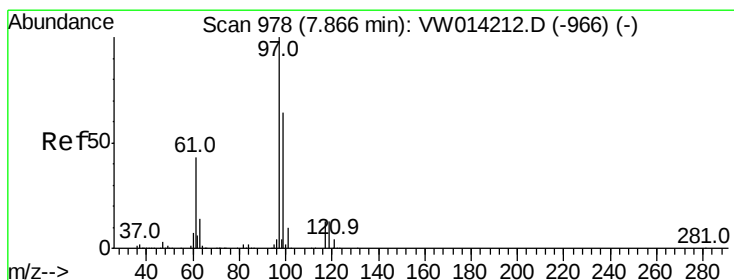
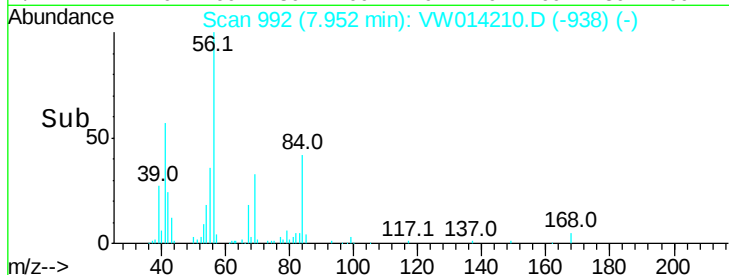
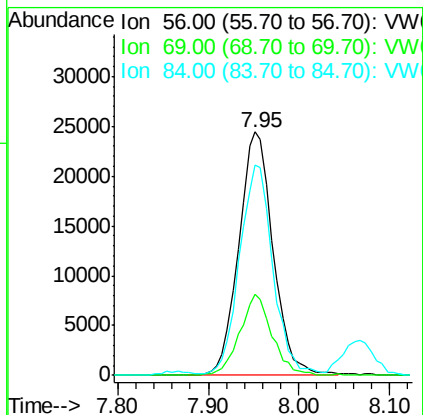
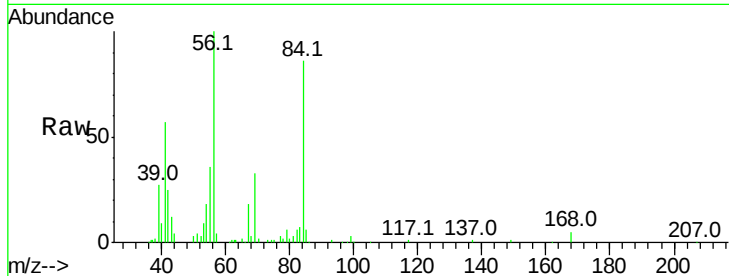




#30
Cyclohexane
Concen: 1.785 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW014210.D
Acq: 05 Dec 2019 12:22

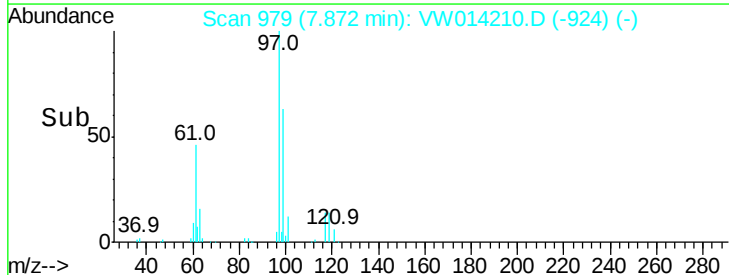
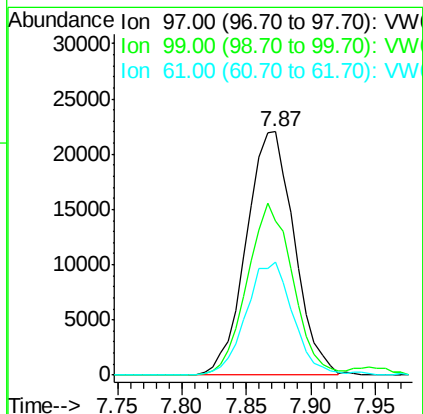
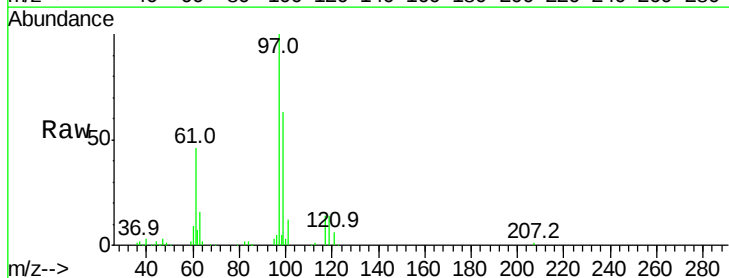
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.501

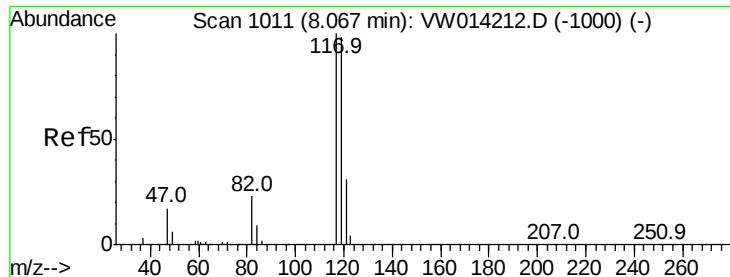
Tgt Ion: 56 Resp: 63971
Ion Ratio Lower Upper
56 100
69 31.4 24.6 37.0
84 83.2 70.2 105.2



#31
1,1,1-Trichloroethane
Concen: 2.025 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.01 min
Lab File: VW014210.D
Acq: 05 Dec 2019 12:22

Tgt Ion: 97 Resp: 56838
Ion Ratio Lower Upper
97 100
99 67.5 51.1 76.7
61 45.1 32.8 49.2





#32

Carbon tetrachloride

Concen: 2.032 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampled :

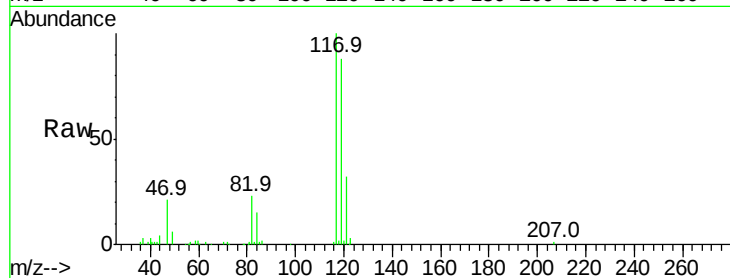
VSTD2.501

Tgt Ion:117 Resp: 54760

Ion Ratio Lower Upper

117 100

119 93.6 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.06

25000

20000

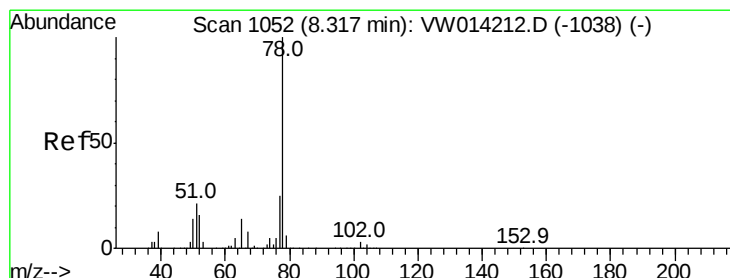
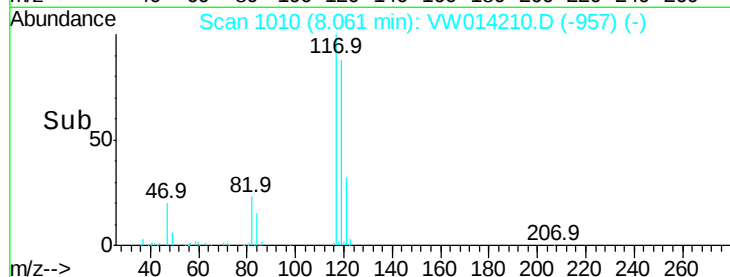
15000

10000

5000

0

Time--> 8.00 8.05 8.10 8.15



#34

Benzene

Concen: 2.214 ug/L

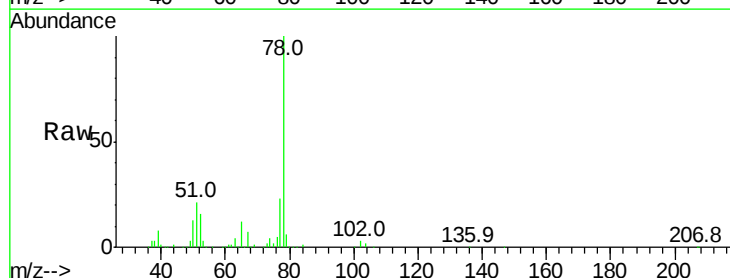
RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Tgt Ion: 78 Resp: 181890



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

80000

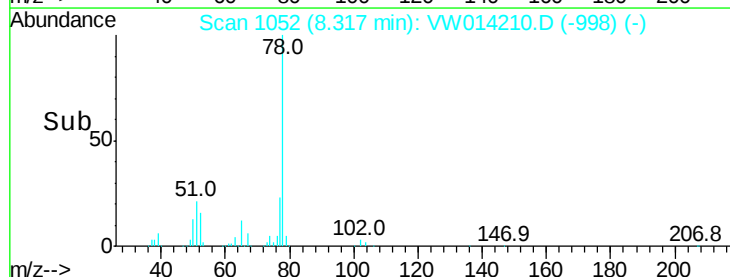
60000

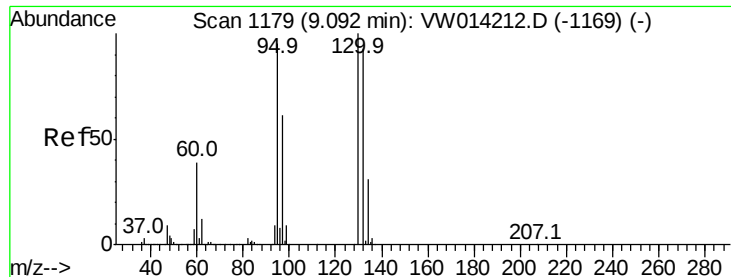
40000

20000

0

Time--> 8.20 8.30 8.40





#35

Trichloroethene

Concen: 2.144 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

Tgt Ion: 95 Resp: 46990

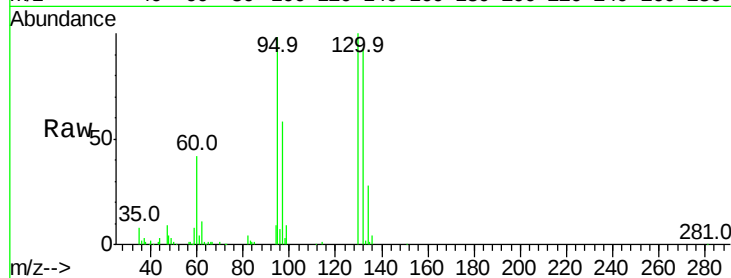
Ion Ratio Lower Upper

95 100

97 62.8 45.1 83.9

132 99.4 73.7 136.9

130 100.1 76.6 142.2

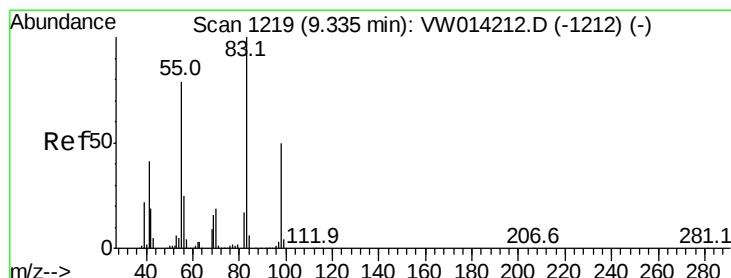
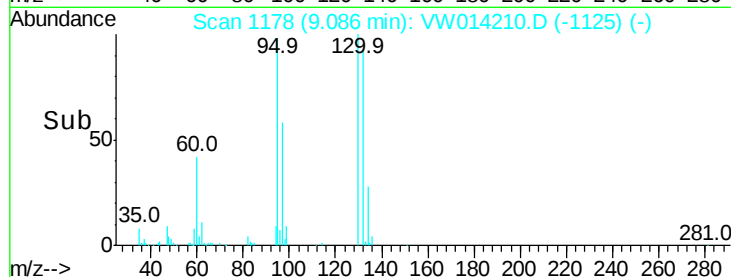
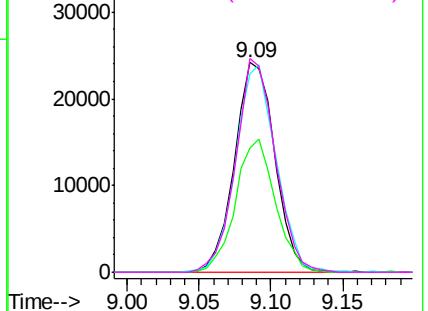


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 1.837 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

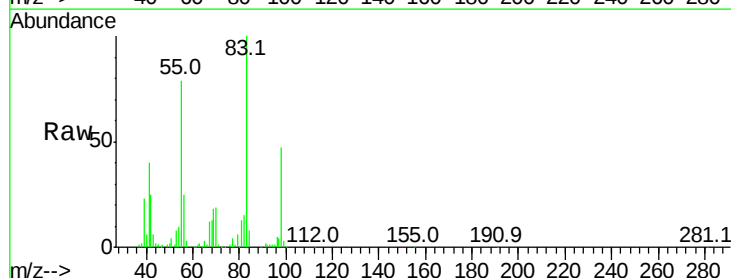
Tgt Ion: 83 Resp: 72179

Ion Ratio Lower Upper

83 100

55 78.2 59.8 89.8

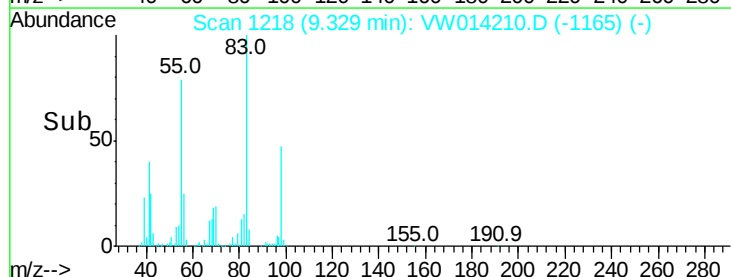
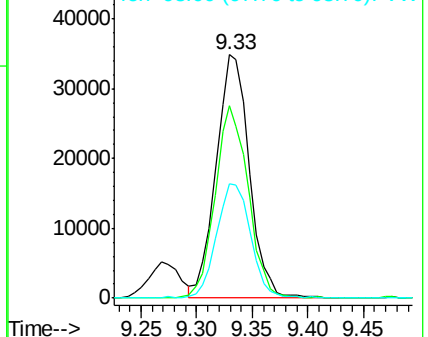
98 48.0 39.5 59.3

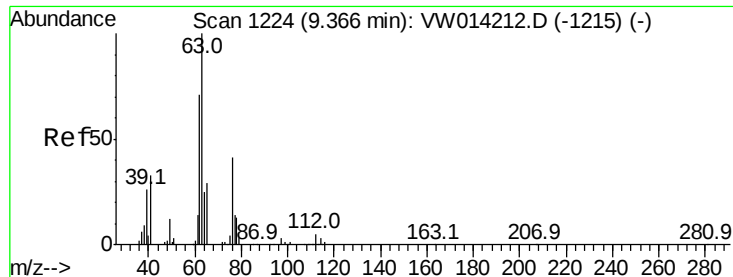


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 2.336 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

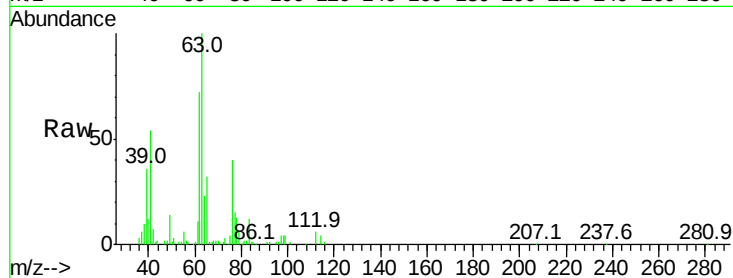
VSTD2.501

Tgt Ion: 63 Resp: 46201

Ion Ratio Lower Upper

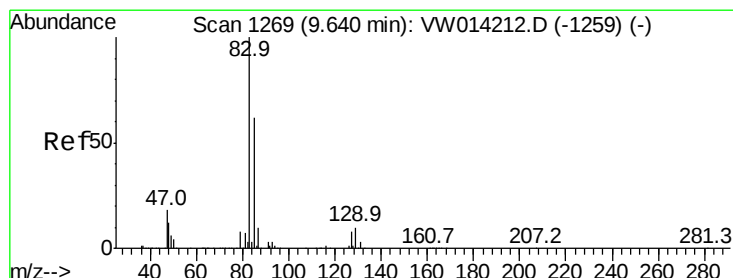
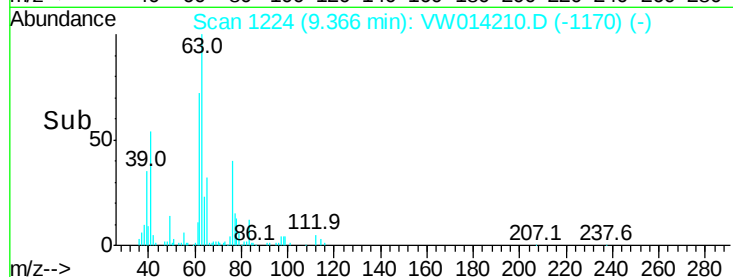
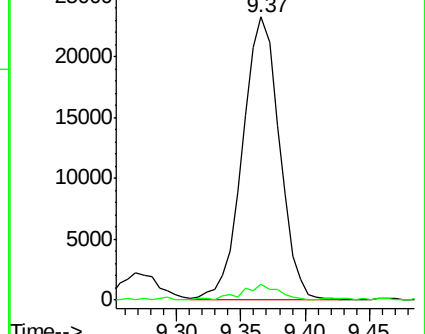
63 100

112 4.6 3.9 5.9



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 2.309 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

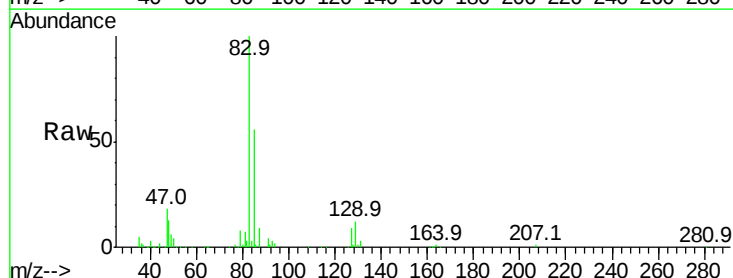
Tgt Ion: 83 Resp: 55207

Ion Ratio Lower Upper

83 100

85 56.4 45.1 83.7

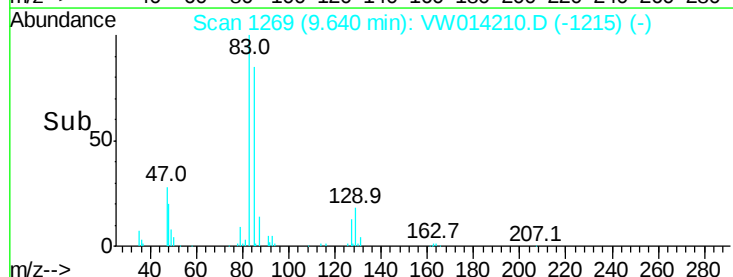
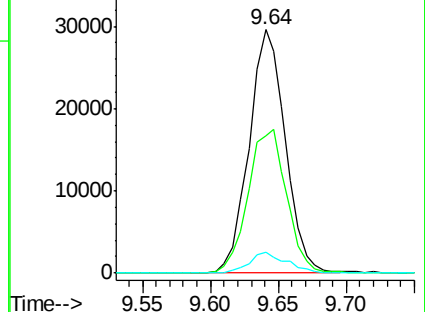
127 8.6 7.4 11.0

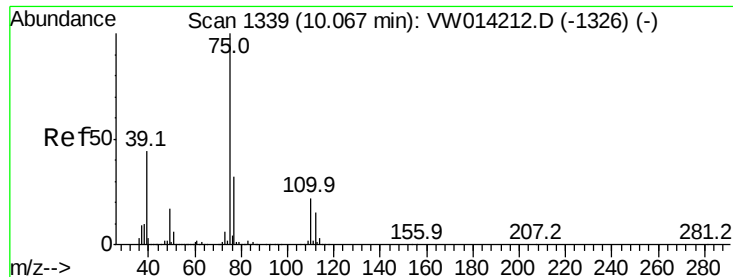


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloroprene

Concen: 1.978 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

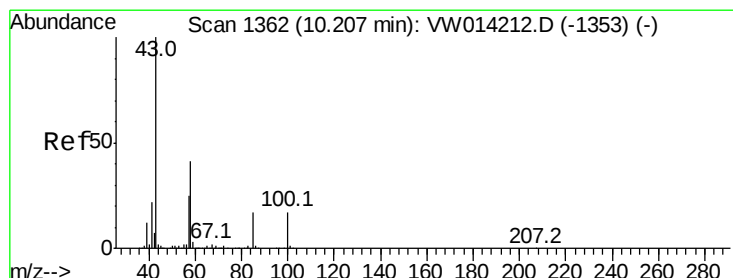
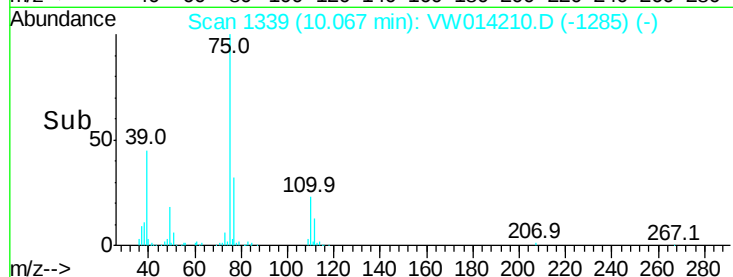
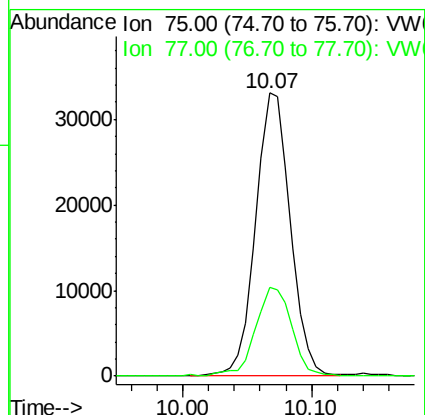
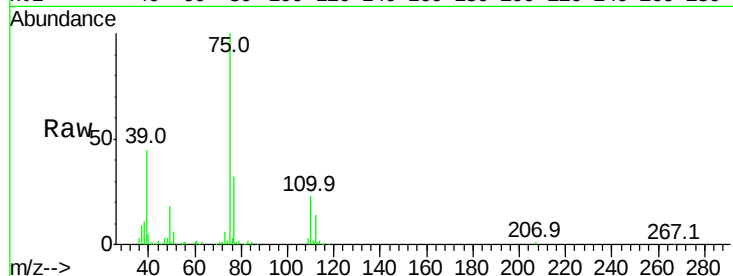
VSTD2.501

Tgt Ion: 75 Resp: 61741

Ion Ratio Lower Upper

75 100

77 31.6 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 4.170 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

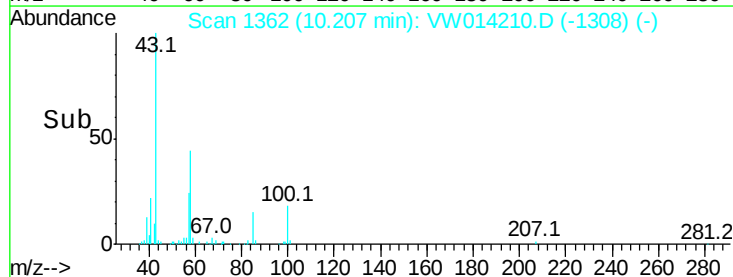
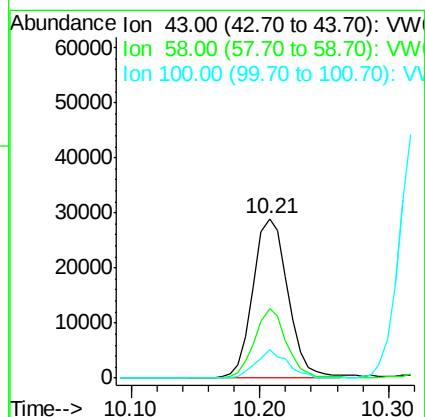
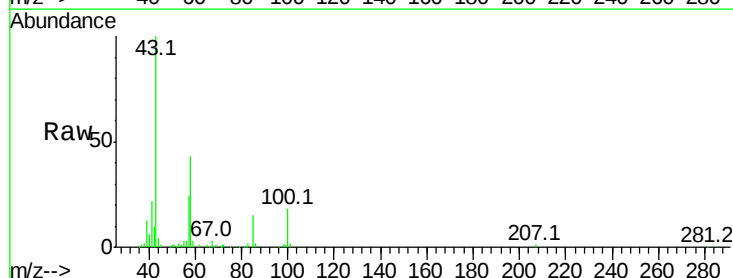
Tgt Ion: 43 Resp: 54454

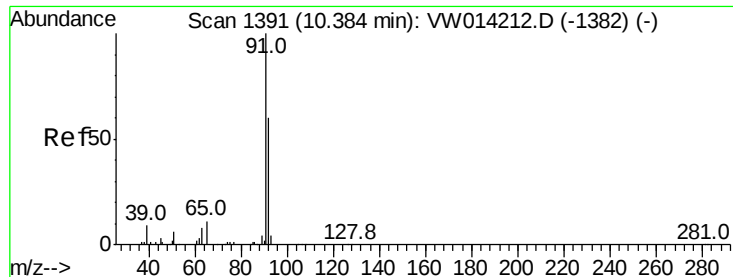
Ion Ratio Lower Upper

43 100

58 39.8 32.6 49.0

100 16.3 13.8 20.8





#44

Toluene

Concen: 2.044 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

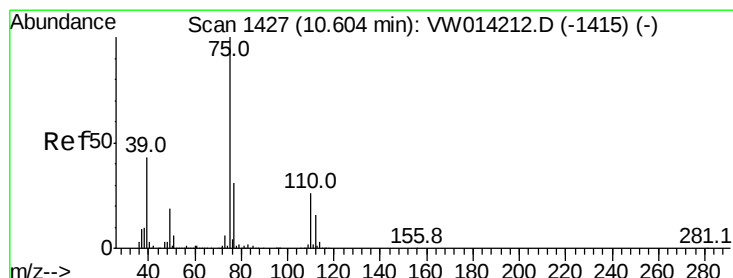
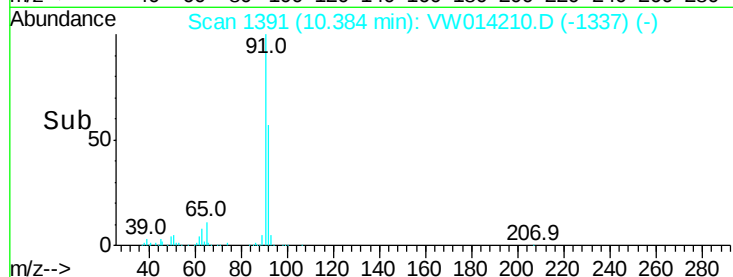
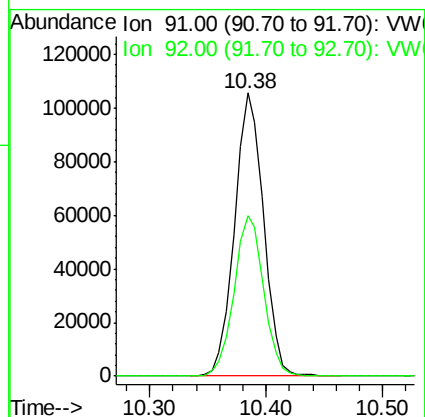
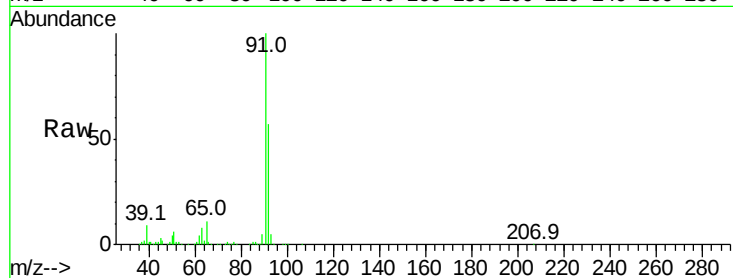
VSTD2.501

Tgt Ion: 91 Resp: 183114

Ion Ratio Lower Upper

91 100

92 56.6 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 2.083 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014210.D

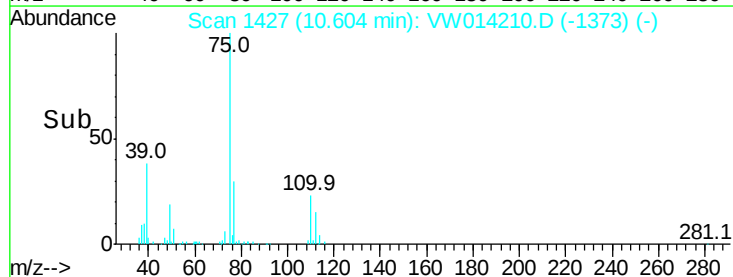
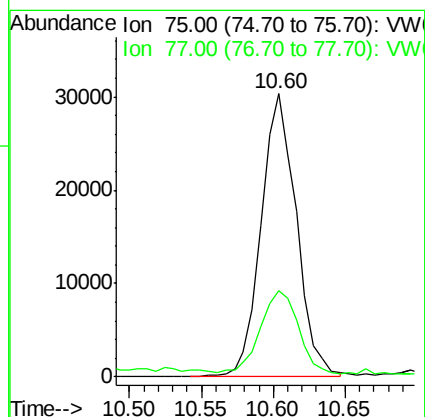
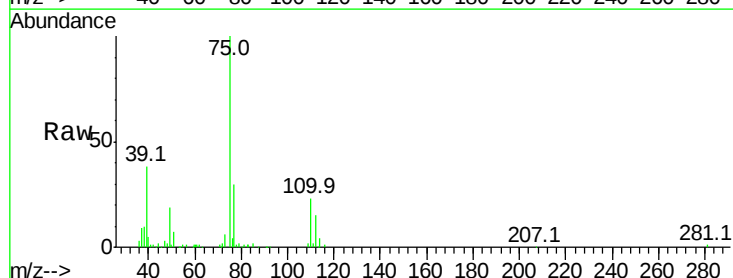
Acq: 05 Dec 2019 12:22

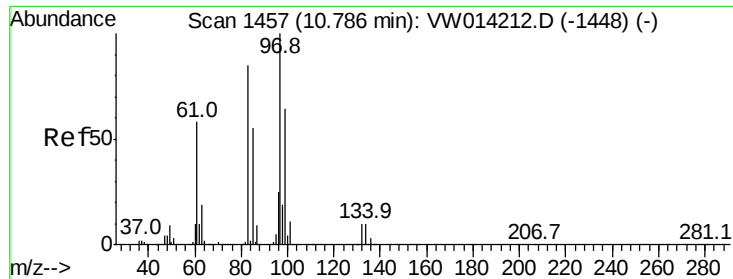
Tgt Ion: 75 Resp: 51421

Ion Ratio Lower Upper

75 100

77 30.3 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 2.404 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

Tgt Ion: 97 Resp: 34938

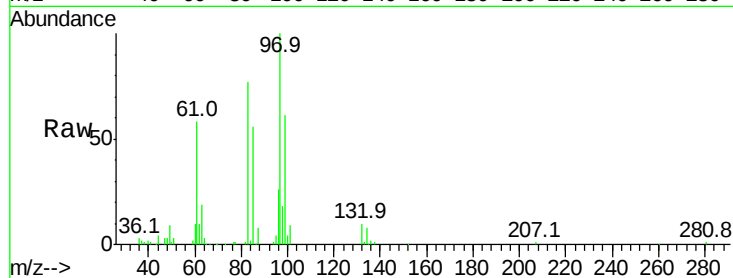
Ion Ratio Lower Upper

97 100

83 76.9 58.9 109.5

85 55.5 38.1 70.9

99 61.1 46.5 86.3



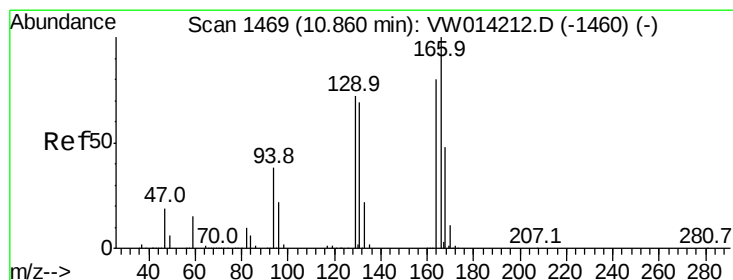
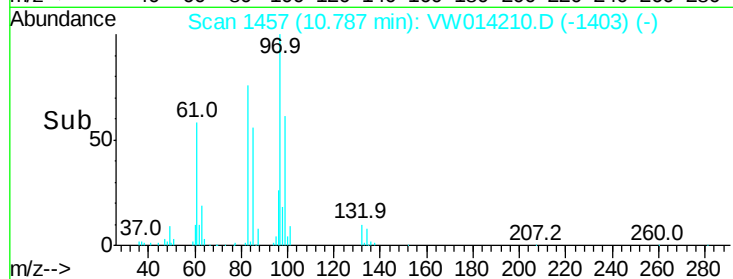
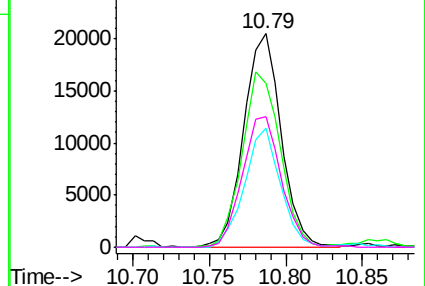
Abundance

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: 1.988 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Tgt Ion: 164 Resp: 38828

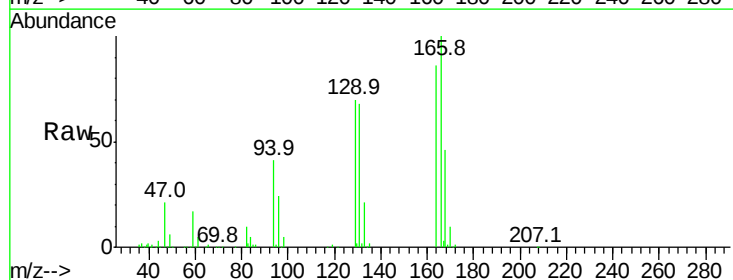
Ion Ratio Lower Upper

164 100

129 82.1 60.6 112.6

131 79.4 59.1 109.7

166 116.7 90.8 168.6



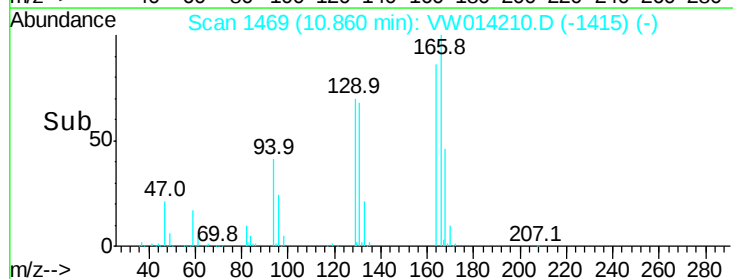
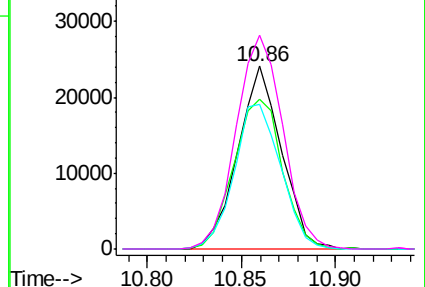
Abundance

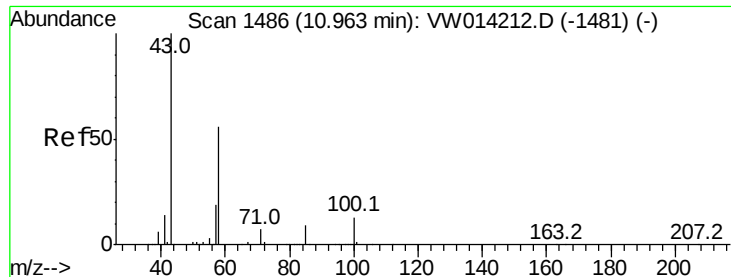
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

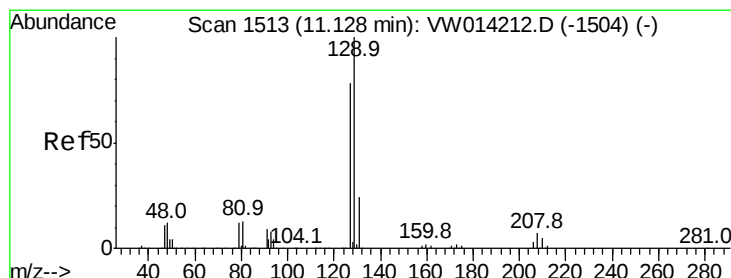
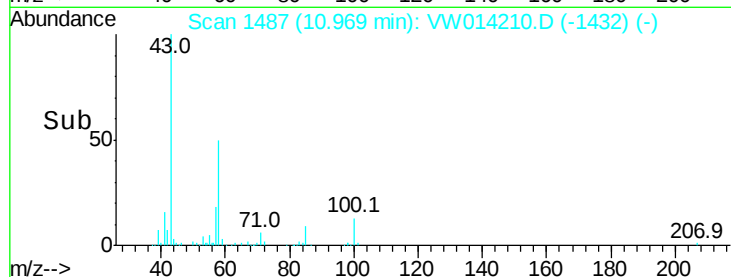
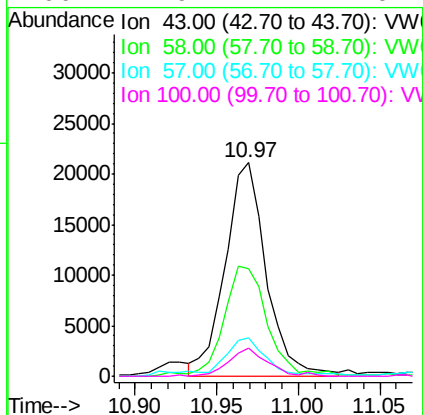
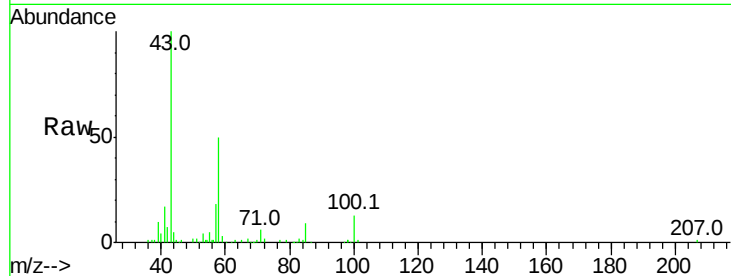




#49
2-Hexanone
Concen: 3.916 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.01 min
Lab File: VW014210.D
Acq: 05 Dec 2019 12:22

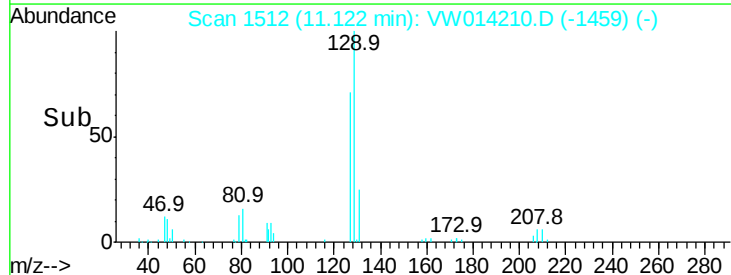
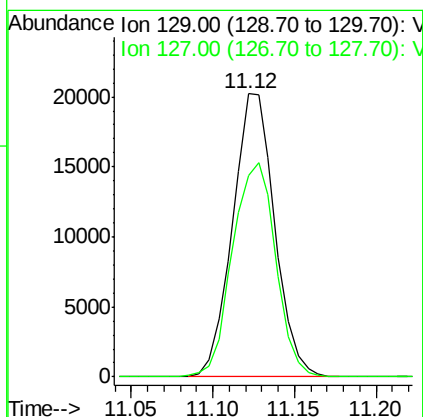
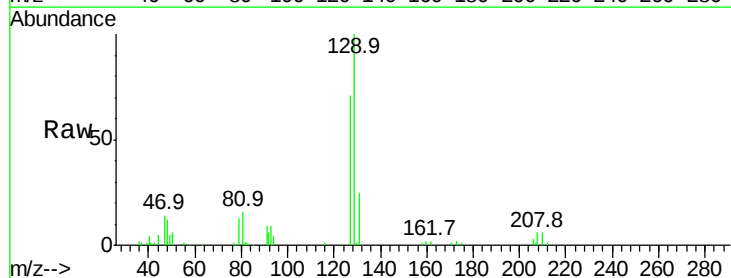
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.501

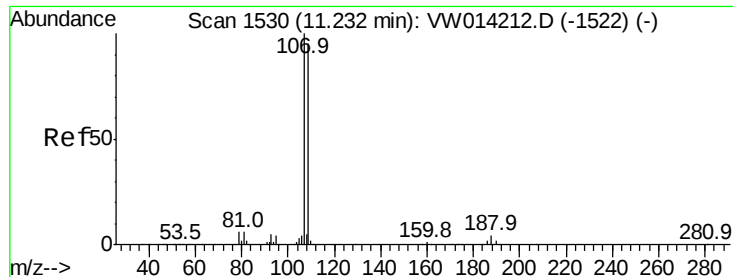
Tgt Ion: 43 Resp: 36868
Ion Ratio Lower Upper
43 100
58 52.6 44.4 66.6
57 15.1 16.5 24.7#
100 11.9 11.1 16.7



#50
Dibromochloromethane
Concen: 2.131 ug/L
RT: 11.12 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VW014210.D
Acq: 05 Dec 2019 12:22

Tgt Ion: 129 Resp: 36393
Ion Ratio Lower Upper
129 100
127 71.2 54.9 102.1

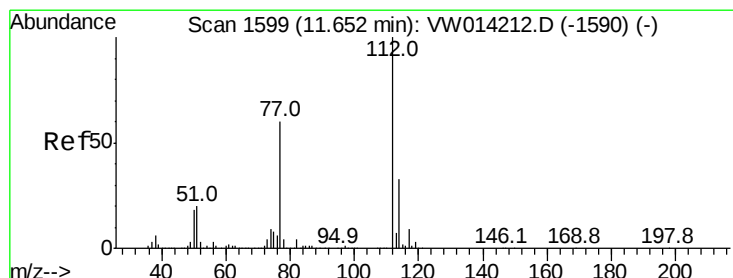
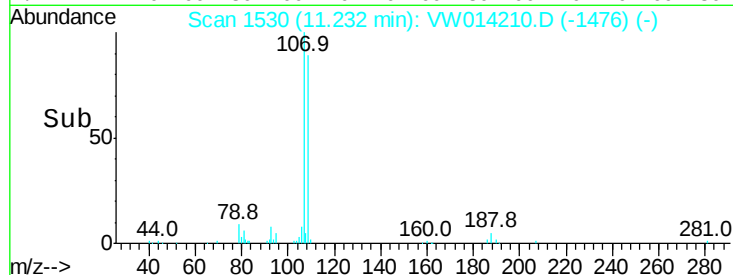
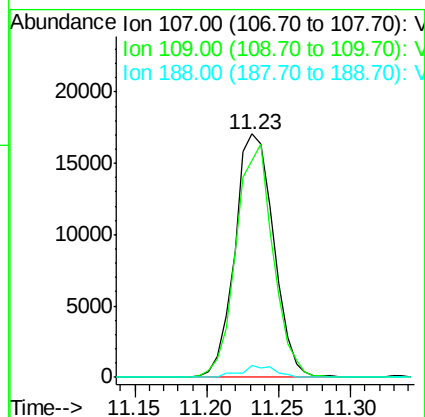
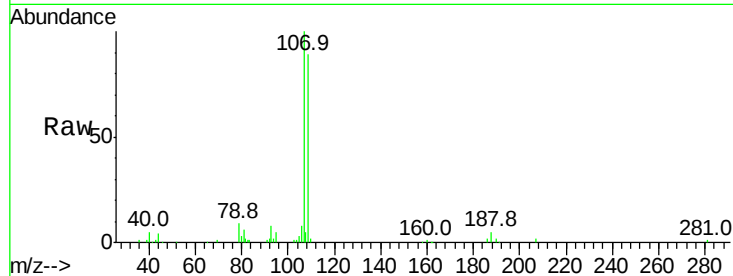




#51
1,2-Dibromoethane
Concen: 2.273 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW014210.D
Acq: 05 Dec 2019 12:22

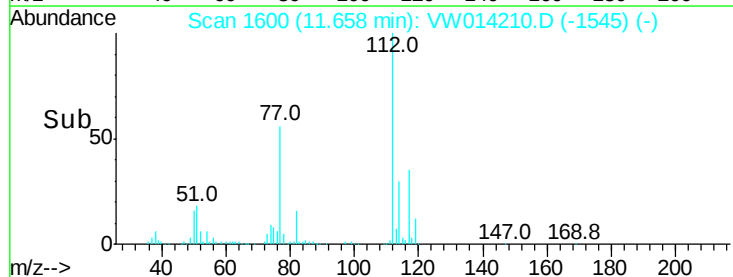
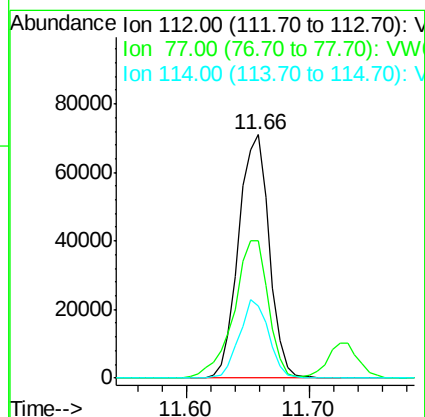
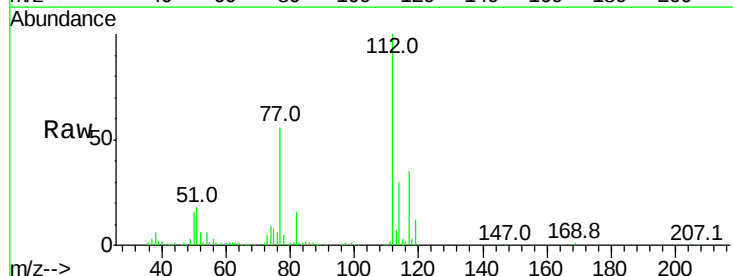
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.501

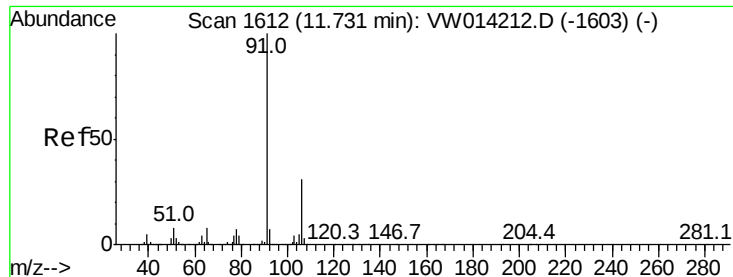
Tgt Ion:107 Resp: 32041
Ion Ratio Lower Upper
107 100
109 88.9 64.6 120.0
188 4.7 3.9 5.9



#52
Chlorobenzene
Concen: 2.194 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VW014210.D
Acq: 05 Dec 2019 12:22

Tgt Ion:112 Resp: 123190
Ion Ratio Lower Upper
112 100
77 56.4 42.2 63.4
114 29.5 22.5 41.9





#53

Ethylbenzene

Concen: 1.977 ug/L

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

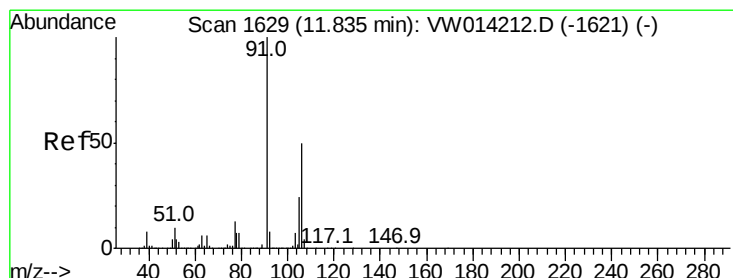
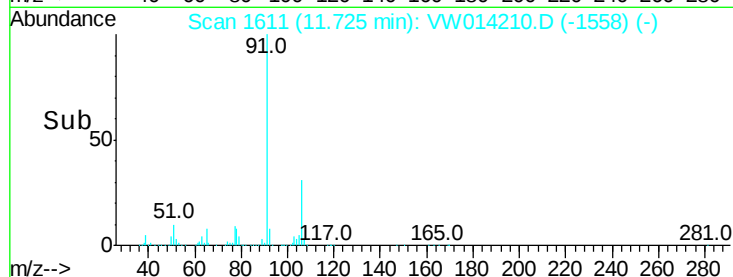
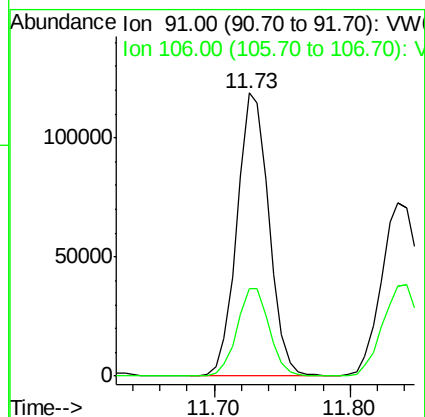
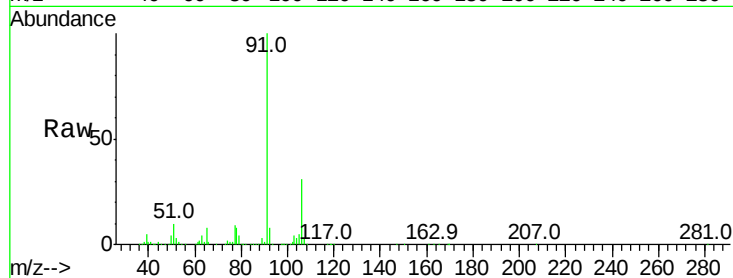
VSTD2.501

Tgt Ion: 91 Resp: 194298

Ion Ratio Lower Upper

91 100

106 31.1 22.3 41.5



#54

m,p-Xylene

Concen: 1.912 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VW014210.D

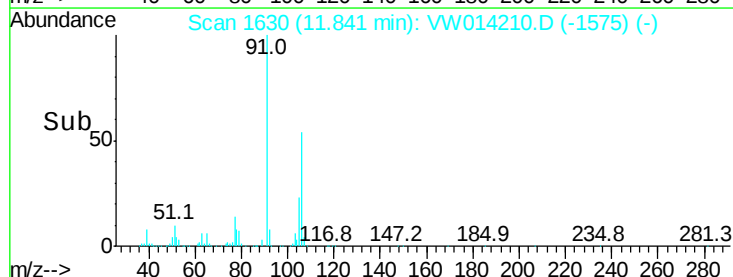
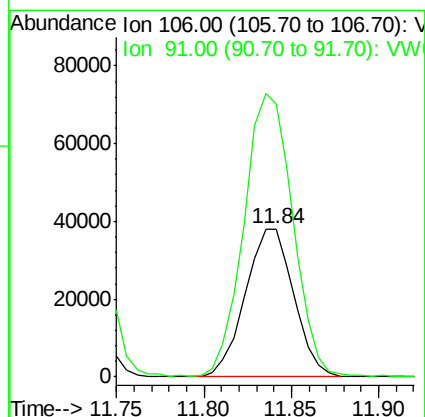
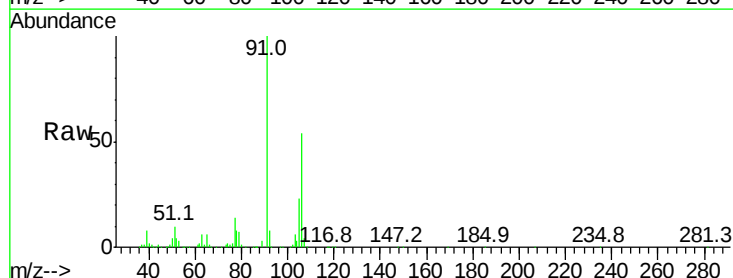
Acq: 05 Dec 2019 12:22

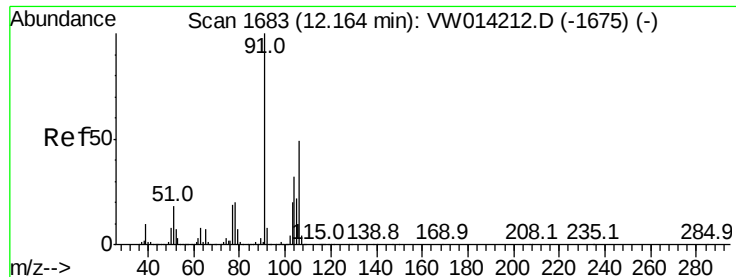
Tgt Ion: 106 Resp: 73046

Ion Ratio Lower Upper

106 100

91 184.6 138.7 257.5





#55

o-xylene

Concen: 1.853 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

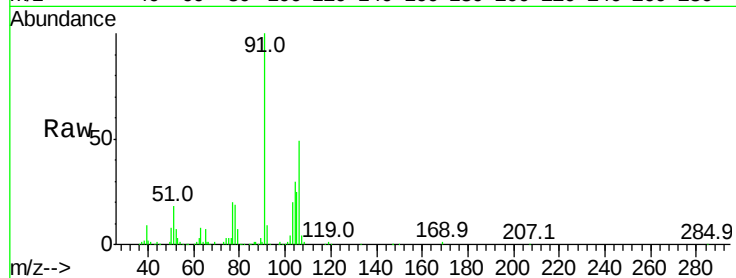
VSTD2.501

Tgt Ion:106 Resp: 66280

Ion Ratio Lower Upper

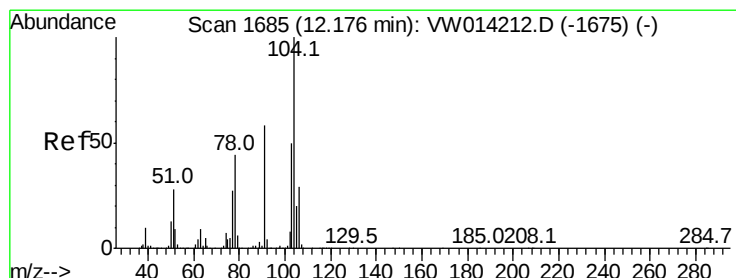
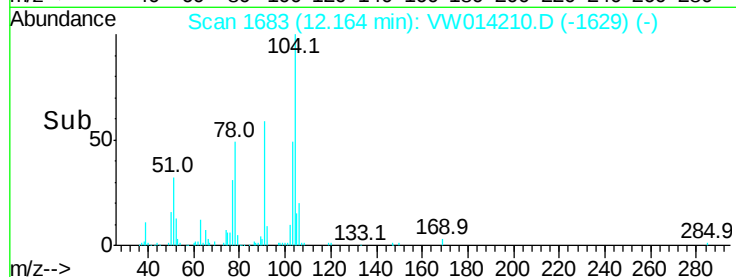
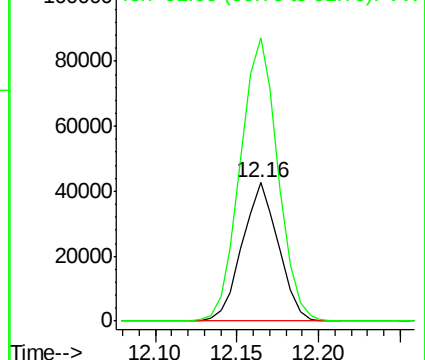
106 100

91 204.3 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 1.841 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VW014210.D

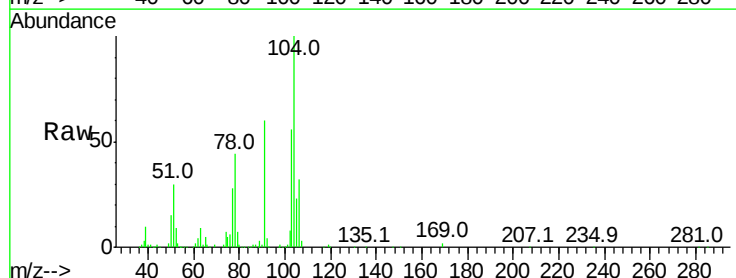
Acq: 05 Dec 2019 12:22

Tgt Ion:104 Resp: 111227

Ion Ratio Lower Upper

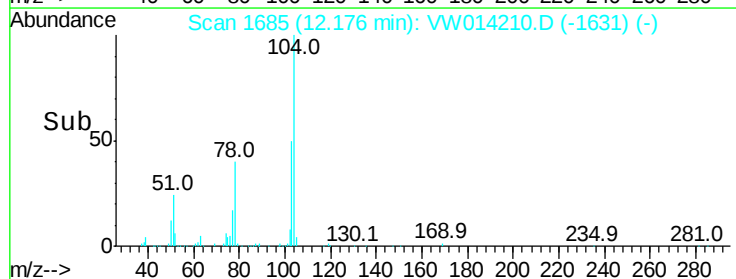
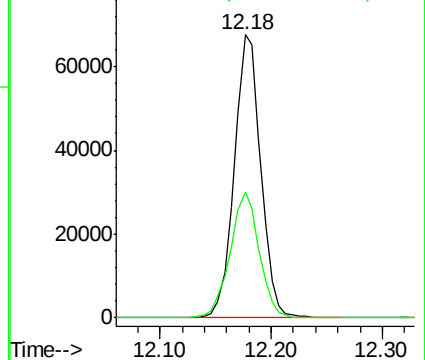
104 100

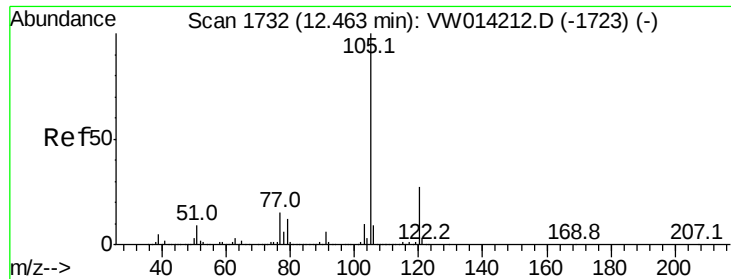
78 44.3 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 1.794 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampled :

VSTD2.501

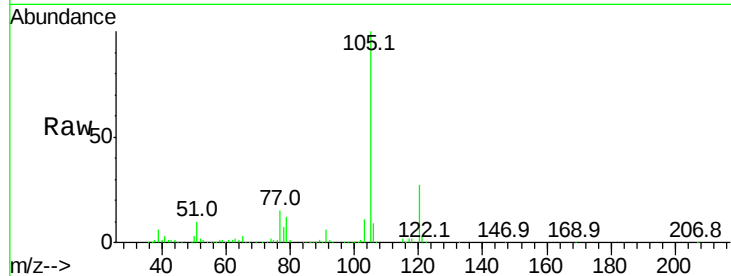
Tgt Ion: 105 Resp: 176442

Ion Ratio Lower Upper

105 100

120 26.3 21.6 32.4

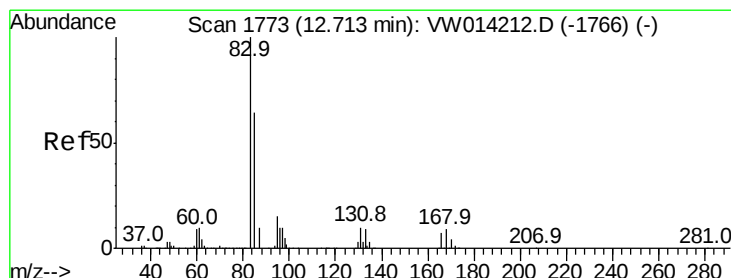
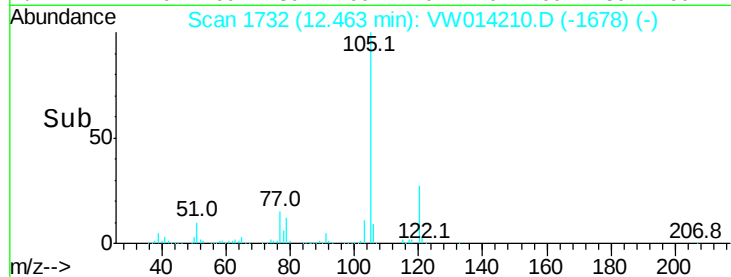
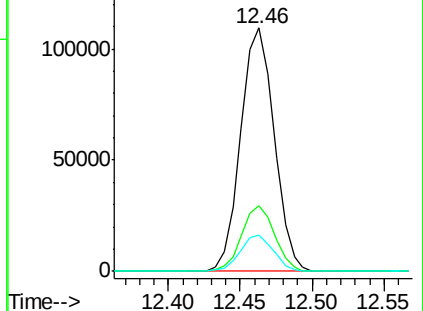
77 14.8 11.6 17.4



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: 2.550 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

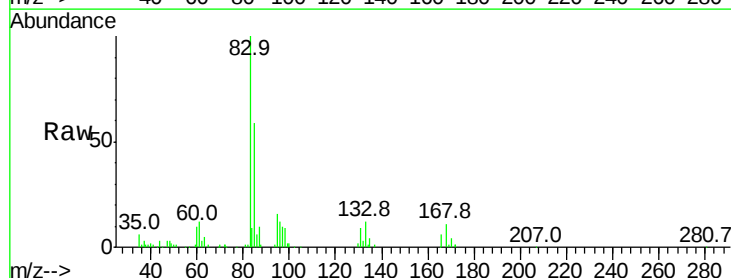
Tgt Ion: 83 Resp: 43270

Ion Ratio Lower Upper

83 100

85 59.5 43.7 81.1

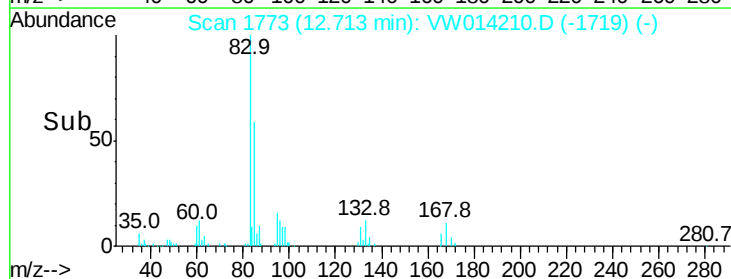
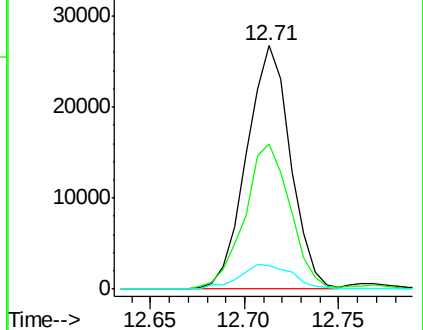
131 9.4 8.2 12.2

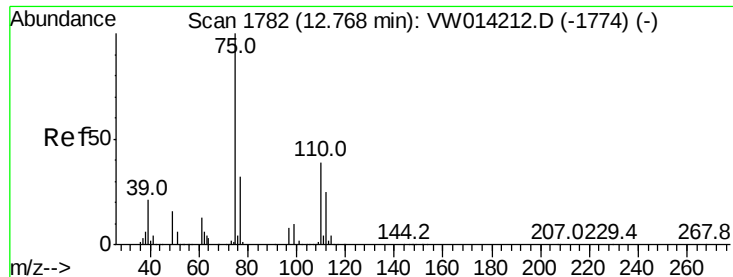


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 2.517 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

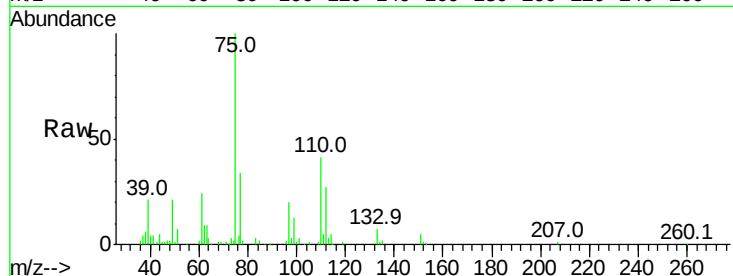
VSTD2.501

Tgt Ion: 75 Resp: 32114

Ion Ratio Lower Upper

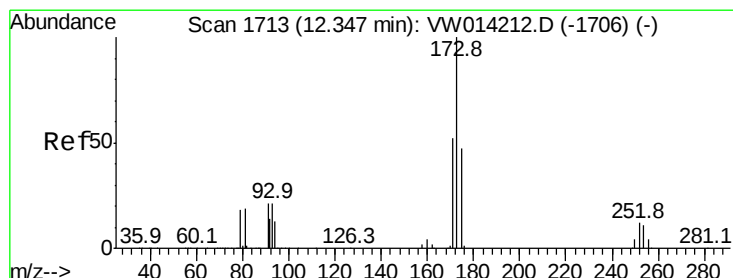
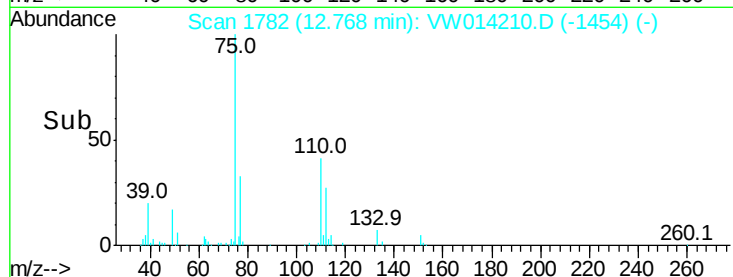
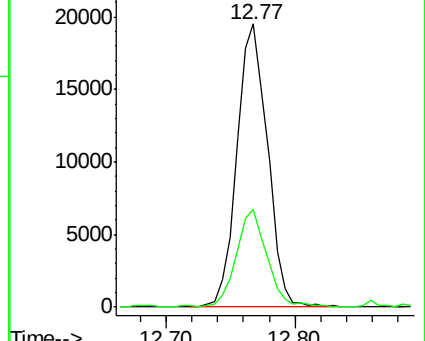
75 100

77 34.0 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#62

Bromoform

Concen: 2.490 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

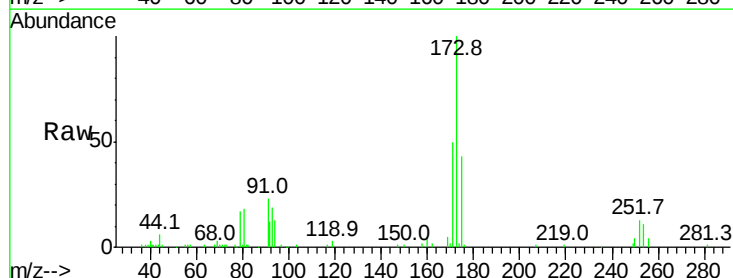
Tgt Ion: 173 Resp: 21500

Ion Ratio Lower Upper

173 100

175 50.6 38.8 58.2

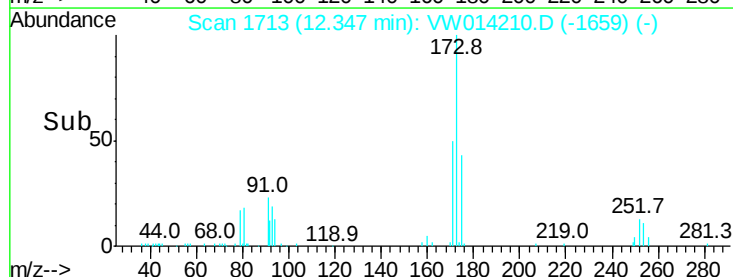
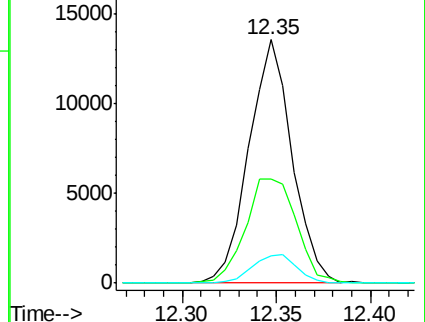
254 11.8 9.4 14.0

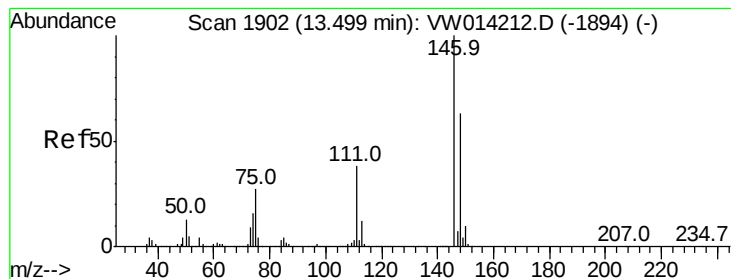


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#63

1,3-Dichlorobenzene

Concen: 2.358 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

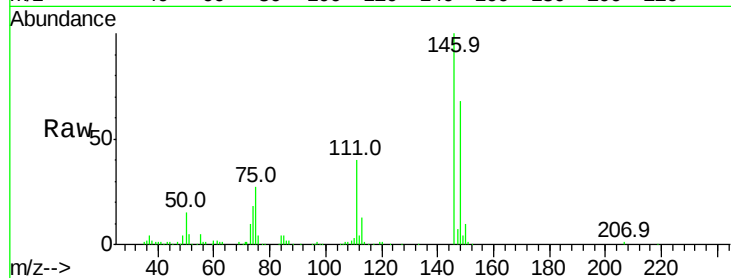
Tgt Ion:146 Resp: 87258

Ion Ratio Lower Upper

146 100

111 40.5 26.0 48.2

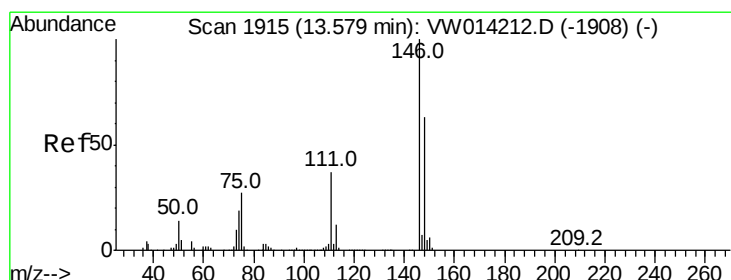
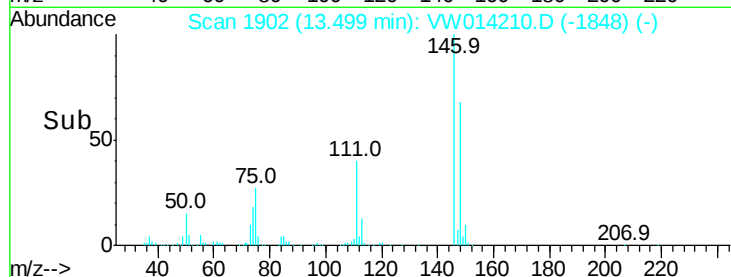
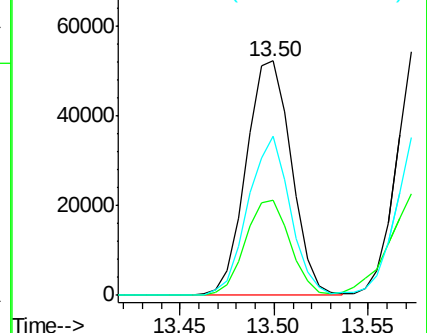
148 68.0 44.7 82.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 2.480 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

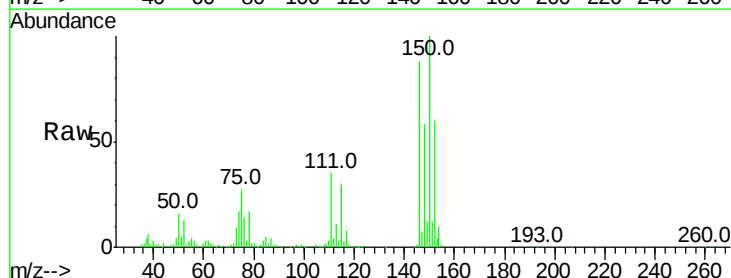
Tgt Ion:146 Resp: 90664

Ion Ratio Lower Upper

146 100

111 39.1 24.9 46.3

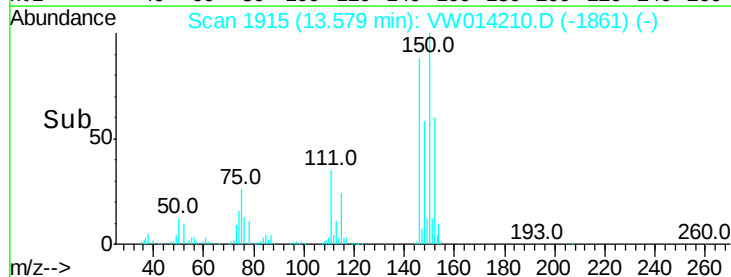
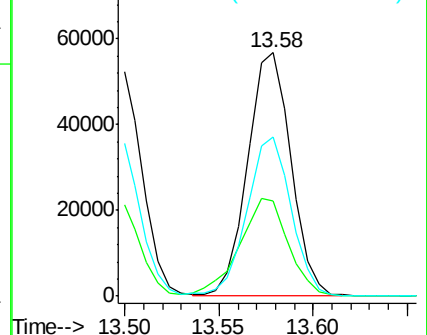
148 65.2 43.9 81.5

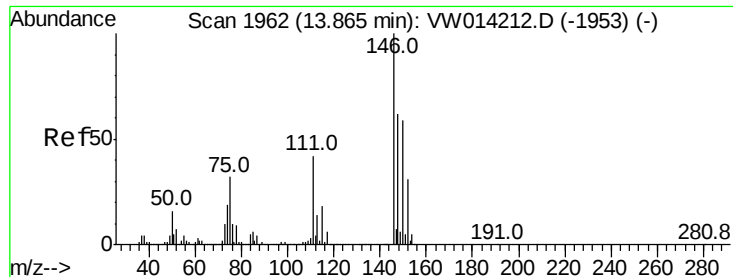


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

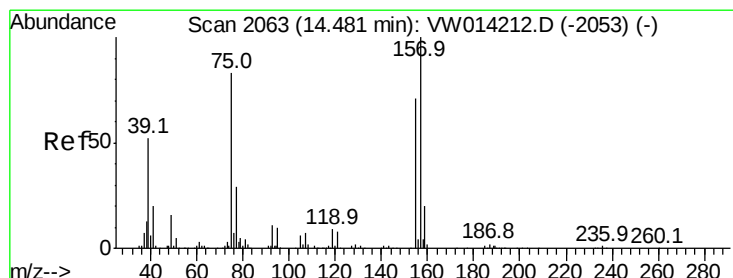
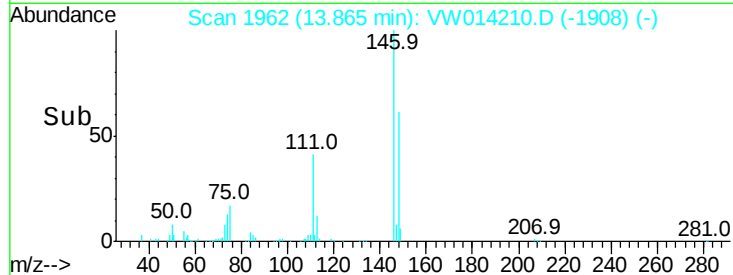
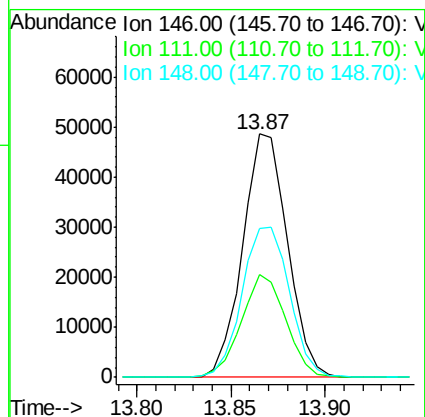
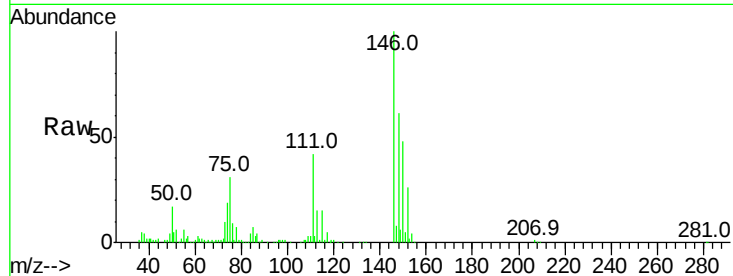




#65
 1,2-Dichlorobenzene
 Concen: 2.437 ug/L
 RT: 13.87 min Scan# 1962
 Delta R.T. 0.00 min
 Lab File: VW014210.D
 Acq: 05 Dec 2019 12:22

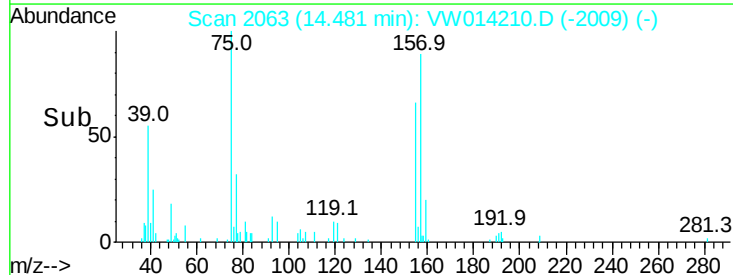
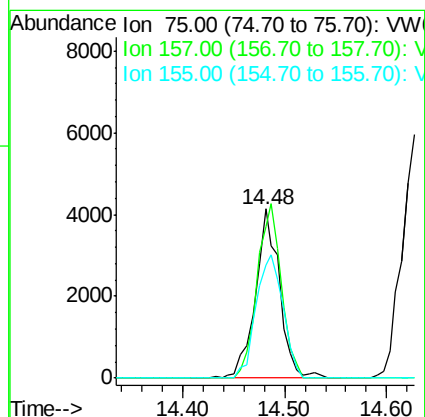
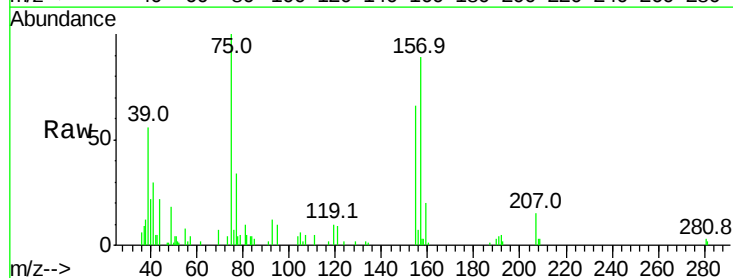
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.501

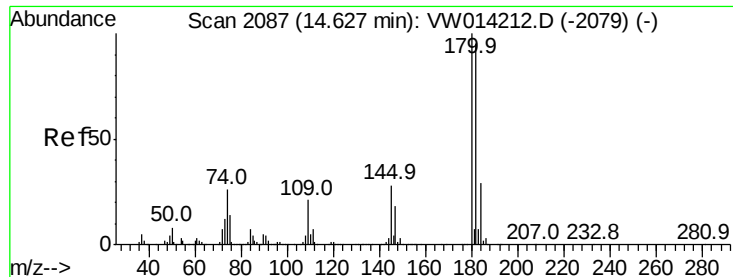
Tgt Ion: 146 Resp: 79857
 Ion Ratio Lower Upper
 146 100
 111 42.3 30.5 45.7
 148 61.3 49.4 74.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 3.059 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW014210.D
 Acq: 05 Dec 2019 12:22

Tgt Ion: 75 Resp: 6826
 Ion Ratio Lower Upper
 75 100
 157 92.5 96.9 145.3#
 155 66.5 82.9 124.3#

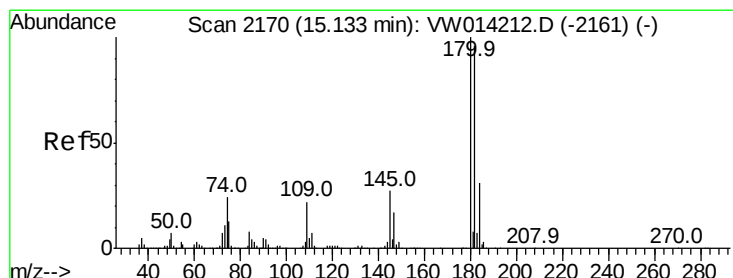
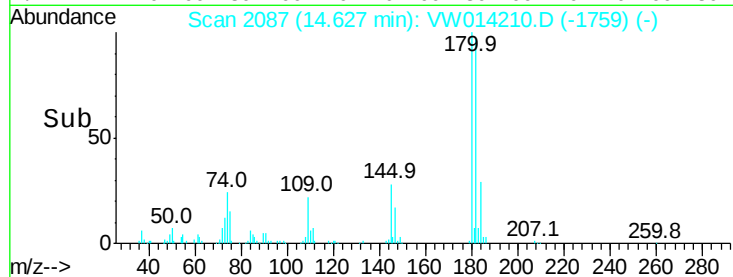
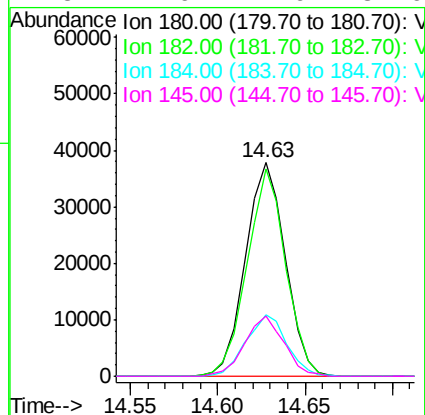
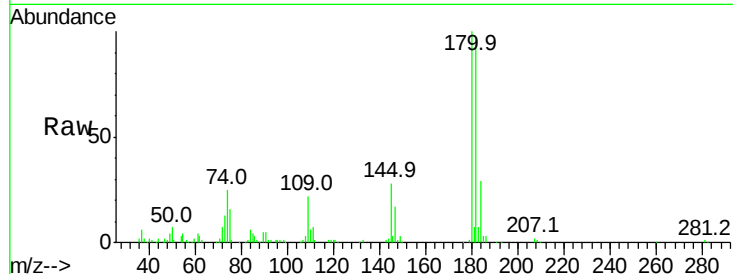




#67
 1,3,5-Trichlorobenzene
 Concen: 2.124 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014210.D
 Acq: 05 Dec 2019 12:22

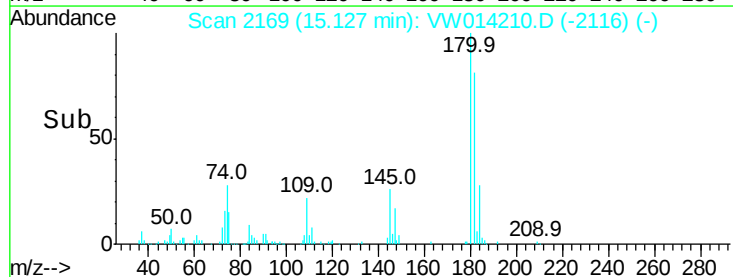
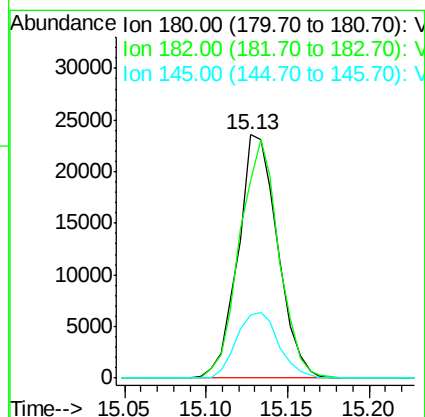
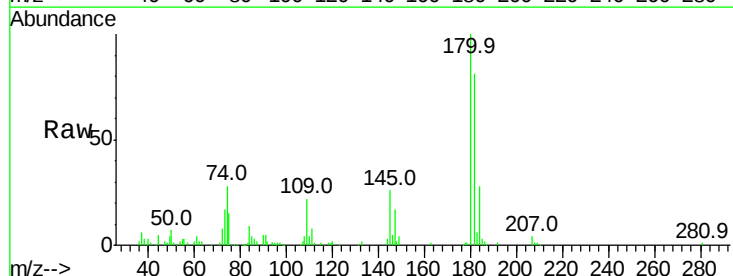
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.501

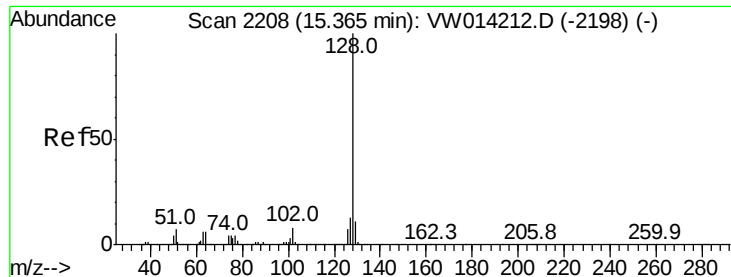
Tgt Ion:	180	Resp:	59892
Ion	Ratio	Lower	Upper
180	100		
182	94.0	76.2	114.2
184	29.3	24.3	36.5
145	27.6	21.9	32.9



#68
 1,2,4-trichlorobenzene
 Concen: 1.794 ug/L
 RT: 15.13 min Scan# 2169
 Delta R.T. -0.01 min
 Lab File: VW014210.D
 Acq: 05 Dec 2019 12:22

Tgt Ion:	180	Resp:	39771
Ion	Ratio	Lower	Upper
180	100		
182	97.1	75.8	113.8
145	28.8	22.4	33.6





#69

Naphthalene

Concen: 1.588 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

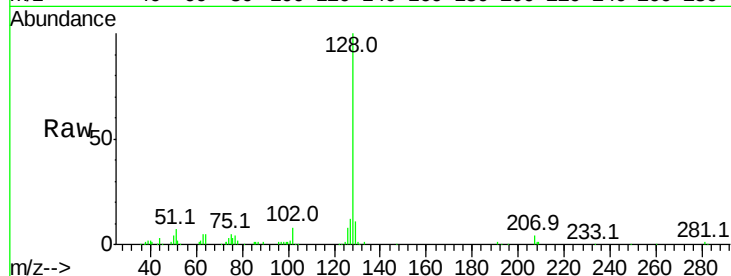
Tgt Ion:128 Resp: 62557

Ion Ratio Lower Upper

128 100

129 11.1 8.8 13.2

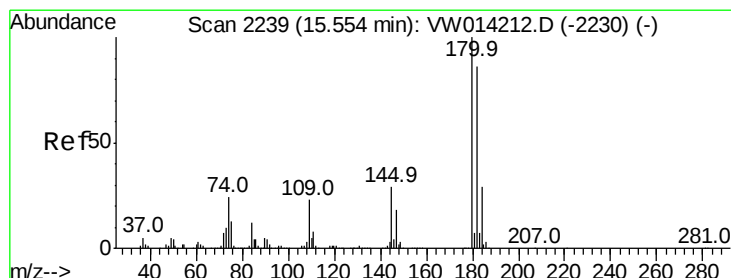
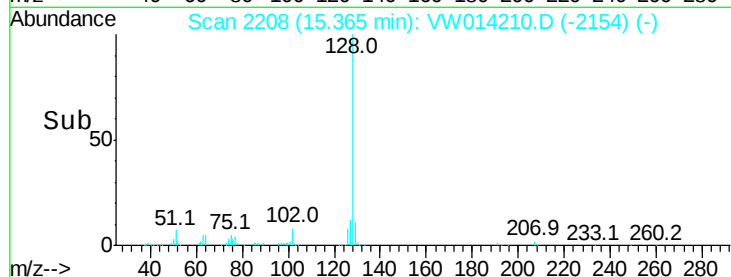
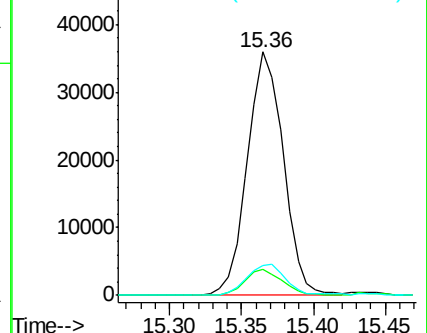
127 13.4 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 2.002 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014210.D

Acq: 05 Dec 2019 12:22

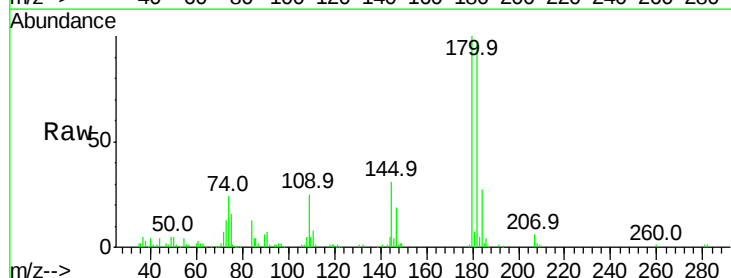
Tgt Ion:180 Resp: 39165

Ion Ratio Lower Upper

180 100

182 96.2 75.8 113.6

145 31.1 24.0 36.0



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

