

Data File : VW010109.D
Acq On : 24 Apr 2019 11:25
Operator : SY/VA
Sample : VSTD05016
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD05016

Quant Time: Apr 24 11:53:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM042419S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 24 11:30:38 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	825731	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	771943	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	373602	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	410433	52.60	ug/L	0.00
7) Chloroethane-d5	2.89	69	345021	43.65	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.01	63	1176235	54.35	ug/L	0.00
20) 2-Butanone-d5	7.07	46	385730	91.38	ug/L	0.00
24) Chloroform-d	7.65	84	1122740	47.03	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	646861	43.67	ug/L	0.00
29) Benzene-d6	8.27	84	2226583	52.49	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	689381	51.02	ug/L	0.00
37) Toluene-d8	10.32	98	2050227	52.97	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	327050	51.05	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	317148	105.92	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	561320	44.41	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.86	152	704153	50.14	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	572604	49.426	ug/L	98
3) Chloromethane	2.22	50	454641	43.055	ug/L	100
5) Vinyl chloride	2.37	62	489022	49.231	ug/L	99
6) Bromomethane	2.78	94	300297	40.936	ug/L	99
8) Chloroethane	2.93	64	301037	42.215	ug/L	98
9) Trichlorofluoromethane	3.25	101	279137	34.134	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.05	101	502701	47.212	ug/L	98
12) 1,1-Dichloroethene	4.04	96	532255	53.391	ug/L	92
13) Acetone	4.12	43	234710	62.529	ug/L	99
14) Carbon disulfide	4.38	76	1608305	56.912	ug/L	98
15) Methyl Acetate	4.67	43	315201	41.605	ug/L	99
16) Methylene chloride	4.92	84	533570	35.687	ug/L	96
17) Methyl tert-butyl Ether	5.42	73	706475	48.422	ug/L	98
18) trans-1,2-Dichloroethene	5.42	96	562181	49.829	ug/L	98
19) 1,1-Dichloroethane	6.21	63	1060750	47.168	ug/L	99
21) 2-Butanone	7.17	43	427168	86.909	ug/L	98
22) cis-1,2-Dichloroethene	7.17	96	617116	50.402	ug/L	99
23) Bromochloromethane	7.51	128	264889	46.455	ug/L	98
25) Chloroform	7.67	83	1058246	45.988	ug/L	99
27) 1,2-Dichloroethane	8.40	62	762355	43.032	ug/L	100
30) Cyclohexane	7.95	56	1035930	59.378	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	815826	50.605	ug/L	98
32) Carbon tetrachloride	8.06	117	812050	51.303	ug/L	99
34) Benzene	8.32	78	2300440	50.587	ug/L	100
35) Trichloroethene	9.09	95	603107	51.008	ug/L	99
36) Methylcyclohexane	9.34	83	1070637	56.359	ug/L	97
40) 1,2-Dichloropropane	9.37	63	593819	49.375	ug/L	100
41) Bromodichloromethane	9.64	83	785459	47.838	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	976129	52.646	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	936958	94.594	ug/L	97

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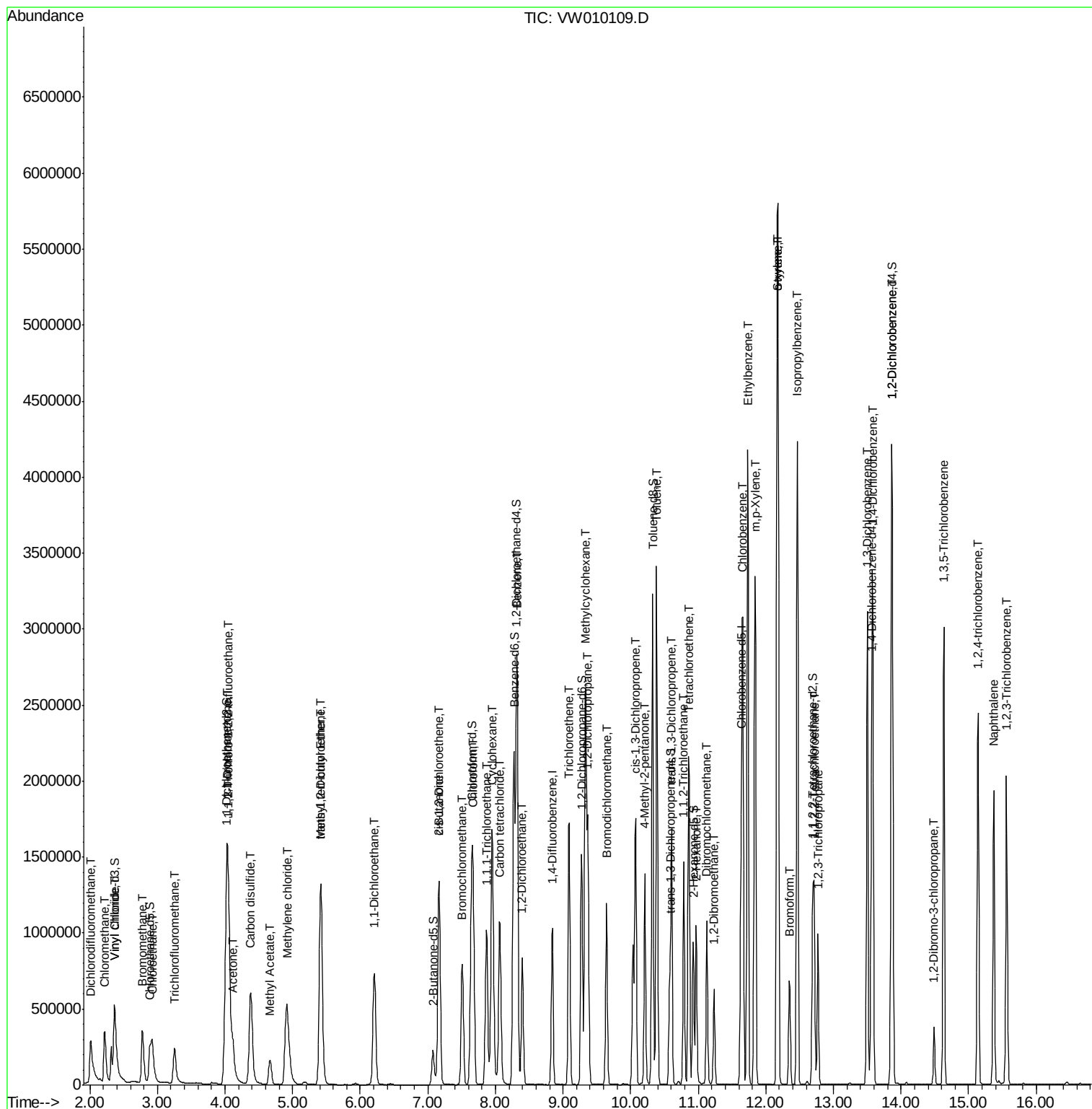
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.38	91	2470441	51.208	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	842166	51.440	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	435848	46.469	ug/L	97
47) Tetrachloroethene	10.86	164	465702	50.423	ug/L	98
49) 2-Hexanone	10.97	43	667407	94.846	ug/L	98
50) Dibromochloromethane	11.13	129	534527	48.011	ug/L	98
51) 1,2-Dibromoethane	11.24	107	426209	46.422	ug/L	98
52) Chlorobenzene	11.66	112	1546717	49.133	ug/L	99
53) Ethylbenzene	11.73	91	2826782	52.423	ug/L	99
54) m,p-Xylene	11.84	106	1049601	53.216	ug/L	99
55) o-xylene	12.16	106	1010322	53.408	ug/L	98
56) Styrene	12.18	104	1732744	52.323	ug/L	99
57) Isopropylbenzene	12.46	105	2725486	54.092	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.72	83	542099	43.935	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	402812	43.623	ug/L	100
62) Bromoform	12.35	173	307207	46.824	ug/L	100
63) 1,3-Dichlorobenzene	13.50	146	1190081	52.722	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	1196135	49.312	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	1093649	49.379	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	96866	43.218	ug/L	98
67) 1,3,5-Trichlorobenzene	14.63	180	883753	53.451	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	736676	54.389	ug/L	99
69) Naphthalene	15.37	128	1586535	54.576	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	668993	51.766	ug/L	100

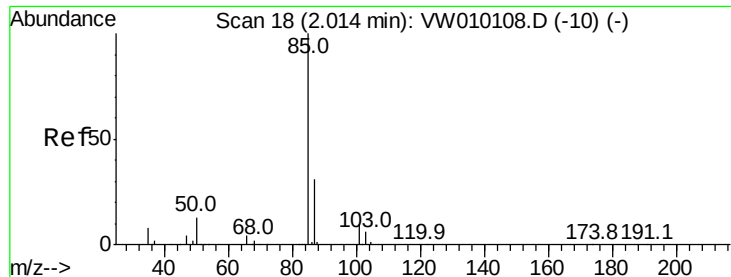
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 49.426 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

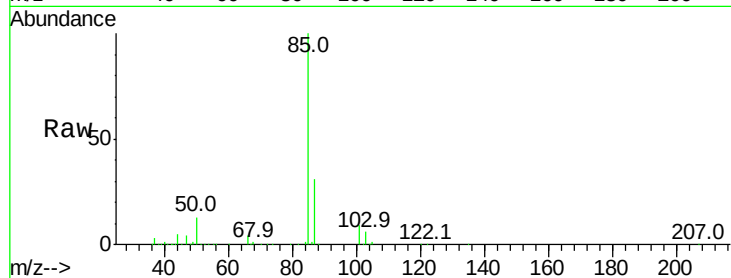
VSTD05016

Tgt Ion: 85 Resp: 572604

Ion Ratio Lower Upper

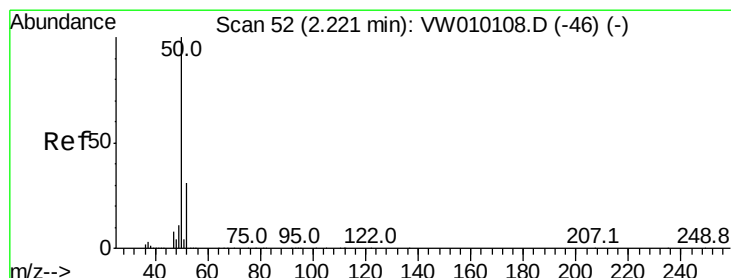
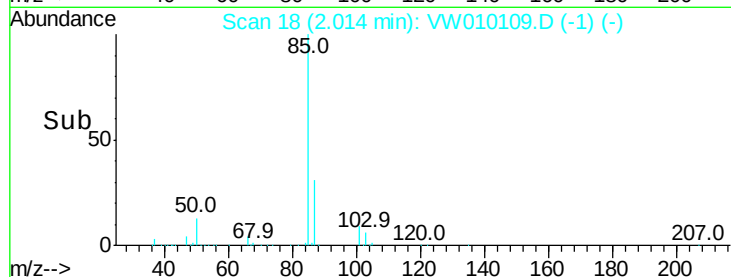
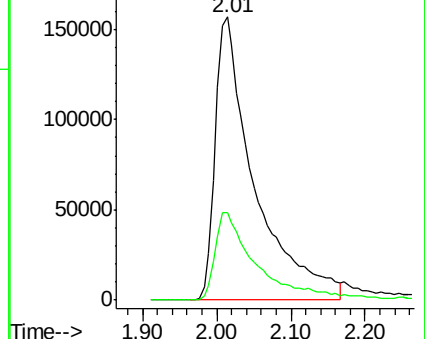
85 100

87 31.1 22.7 42.1



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 43.055 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW010109.D

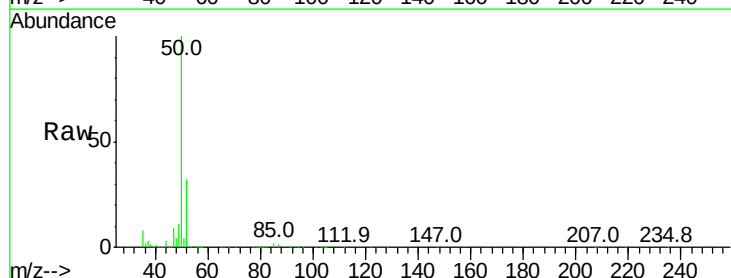
Acq: 24 Apr 2019 11:25

Tgt Ion: 50 Resp: 454641

Ion Ratio Lower Upper

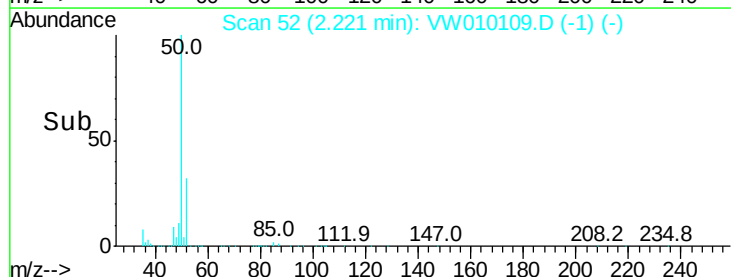
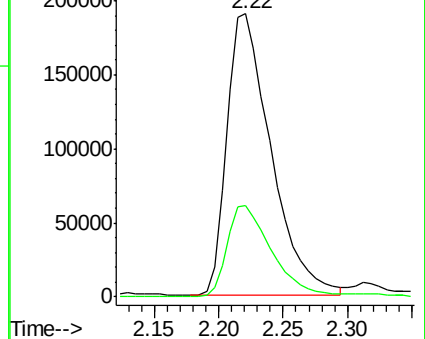
50 100

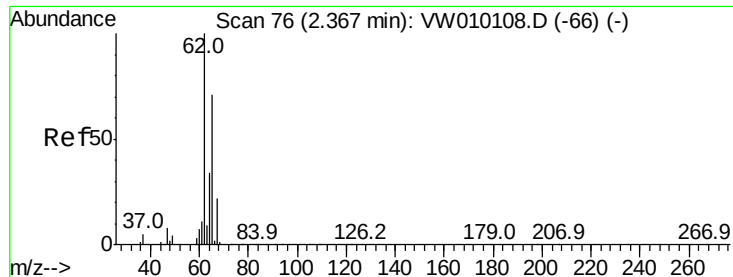
52 32.5 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 49.231 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

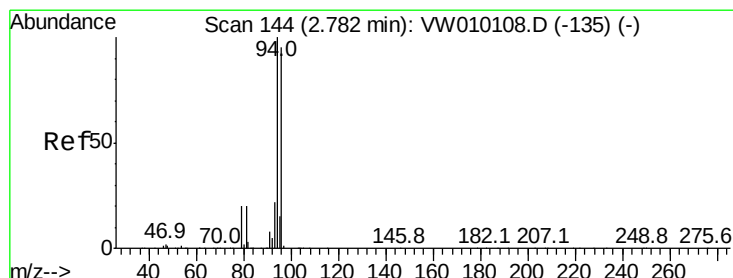
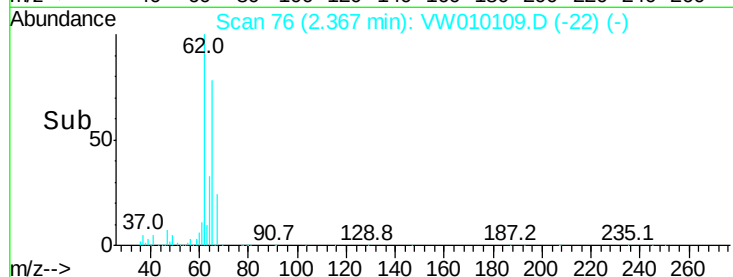
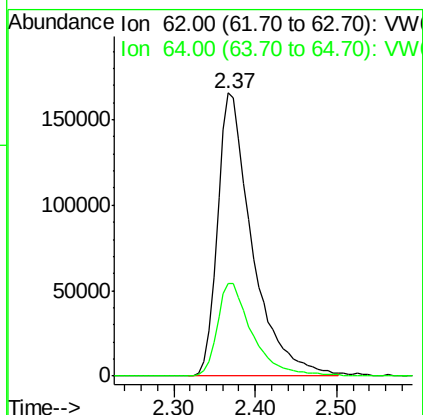
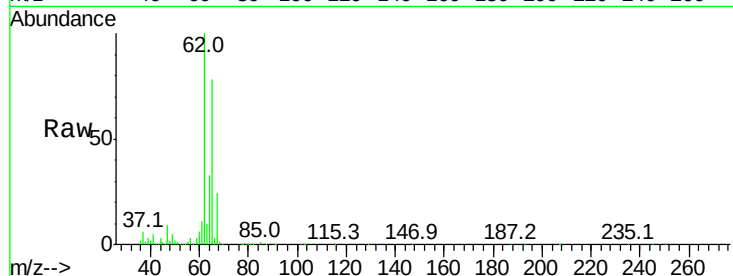
VSTD05016

Tgt Ion: 62 Resp: 489022

Ion Ratio Lower Upper

62 100

64 32.7 23.3 43.3



#6

Bromomethane

Concen: 40.936 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW010109.D

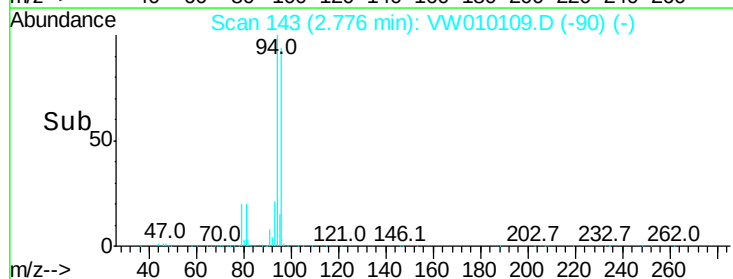
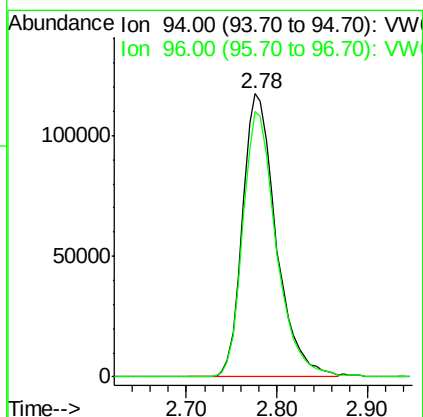
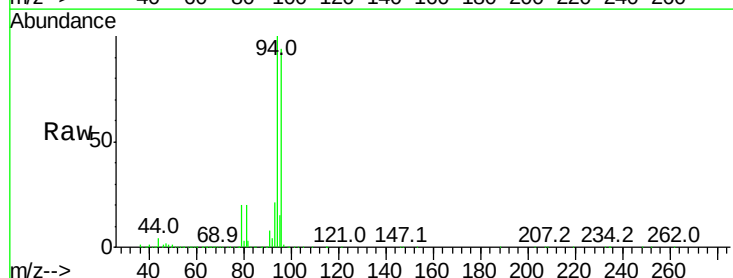
Acq: 24 Apr 2019 11:25

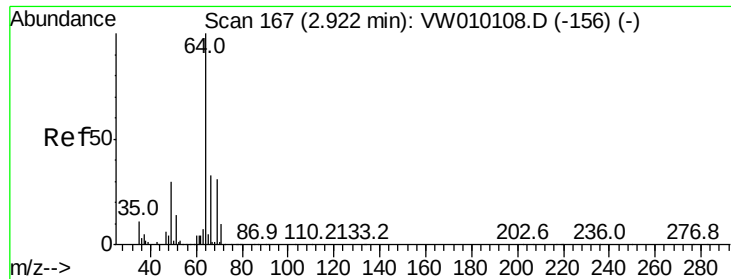
Tgt Ion: 94 Resp: 300297

Ion Ratio Lower Upper

94 100

96 93.5 9.5 180.3





#8

Chloroethane

Concen: 42.215 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

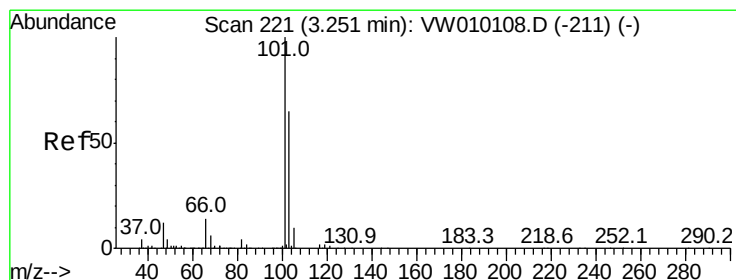
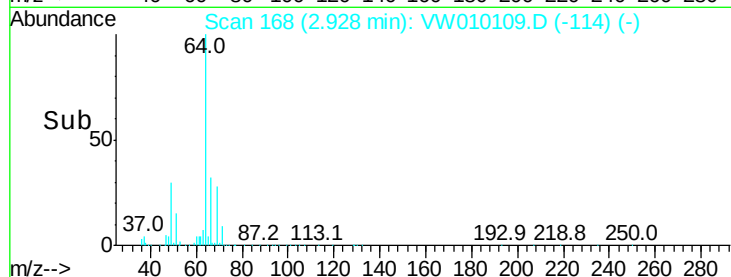
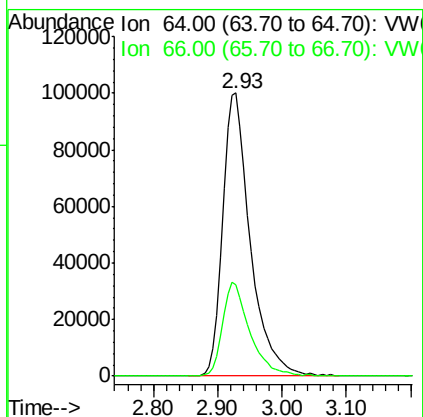
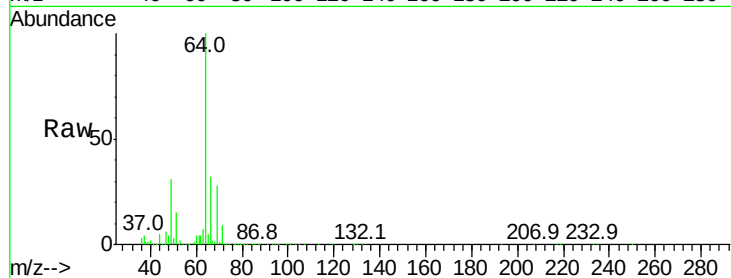
VSTD05016

Tgt Ion: 64 Resp: 301037

Ion Ratio Lower Upper

64 100

66 32.3 21.7 40.3



#9

Trichlorofluoromethane

Concen: 34.134 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW010109.D

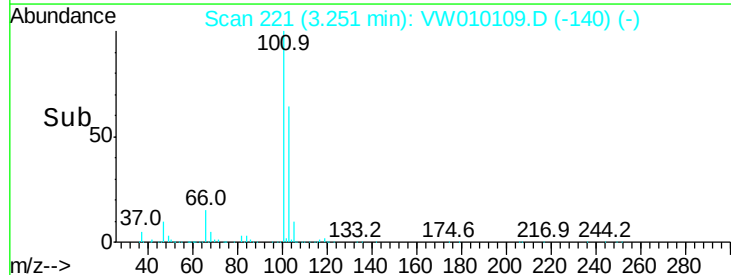
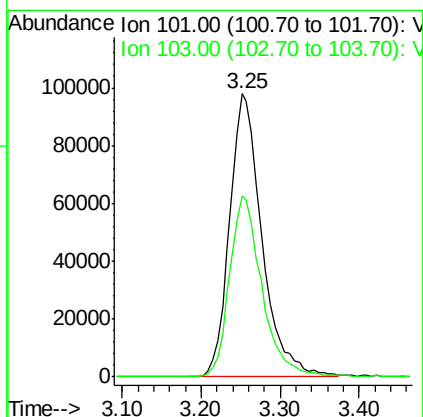
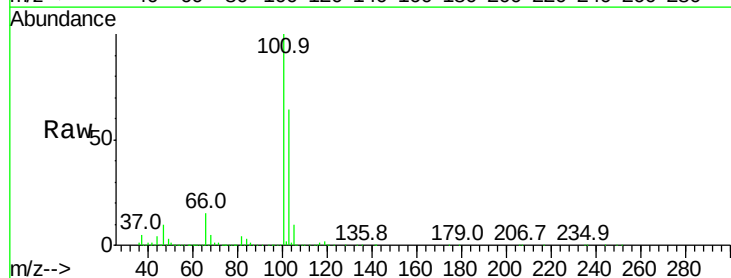
Acq: 24 Apr 2019 11:25

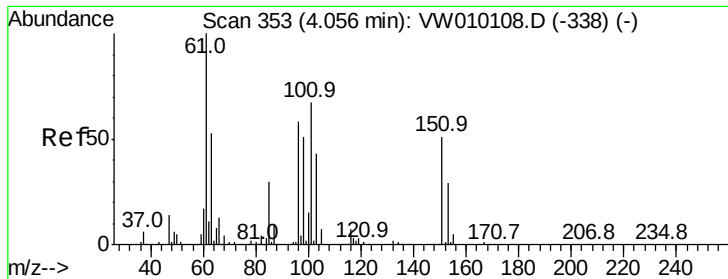
Tgt Ion: 101 Resp: 279137

Ion Ratio Lower Upper

101 100

103 63.5 44.5 82.7





#11

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

Concen: 47.212 ug/L

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampled :

VSTD05016

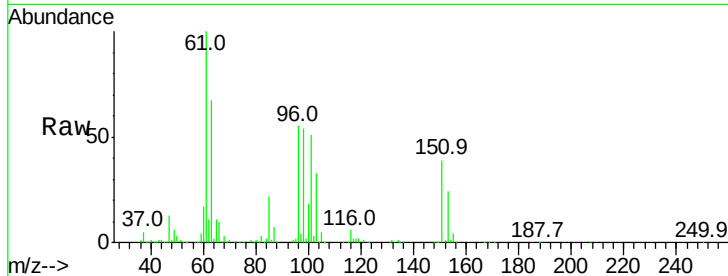
Tgt Ion:101 Resp: 502701

Ion Ratio Lower Upper

101 100

85 44.3 37.0 55.4

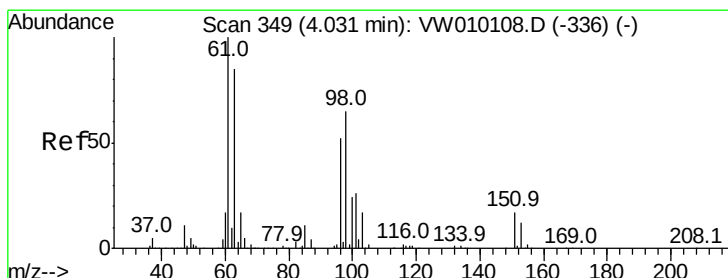
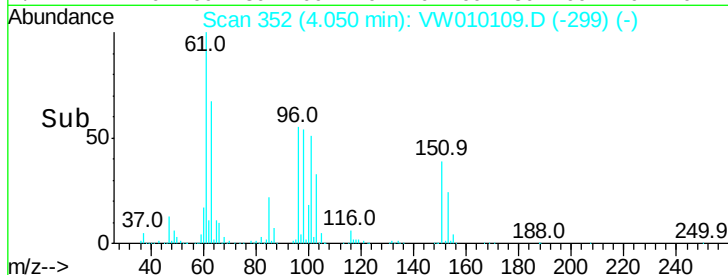
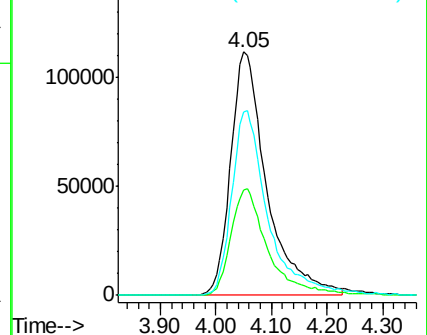
151 74.4 58.2 87.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 53.391 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

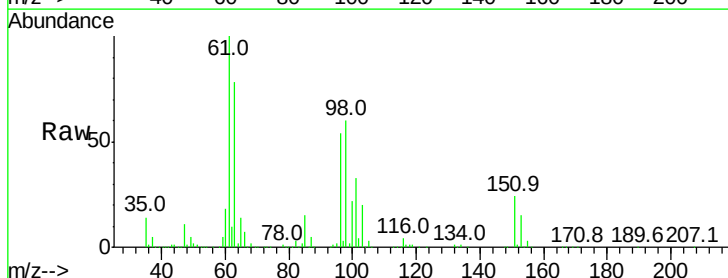
Tgt Ion: 96 Resp: 532255

Ion Ratio Lower Upper

96 100

61 184.5 131.2 243.6

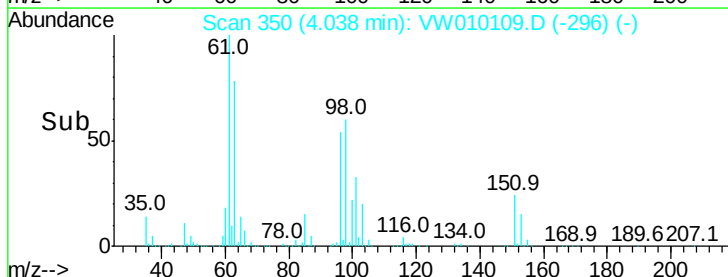
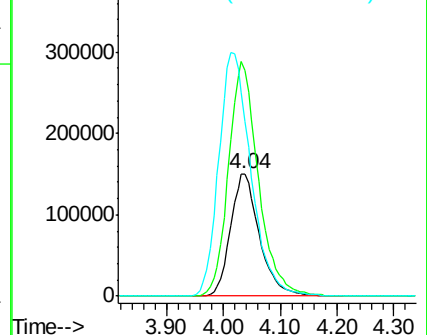
63 143.1 113.9 211.5

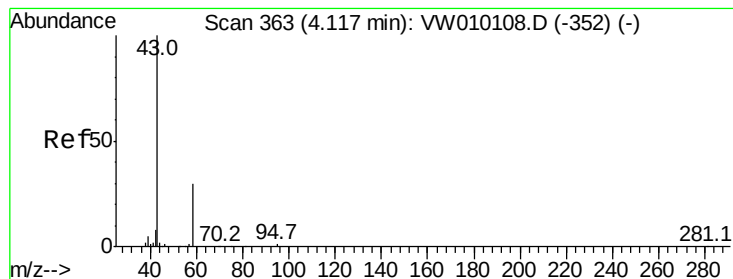


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 62.529 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

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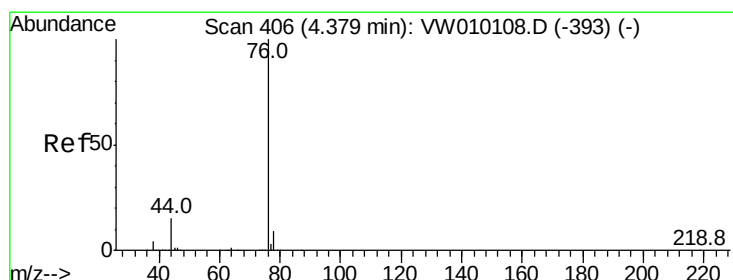
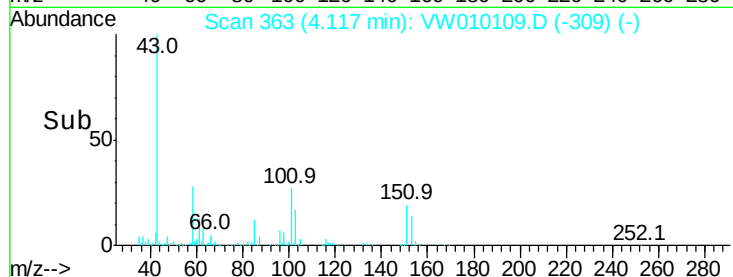
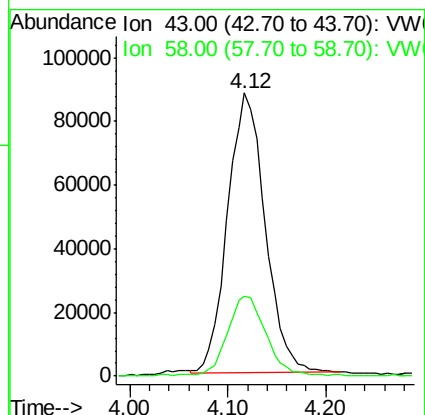
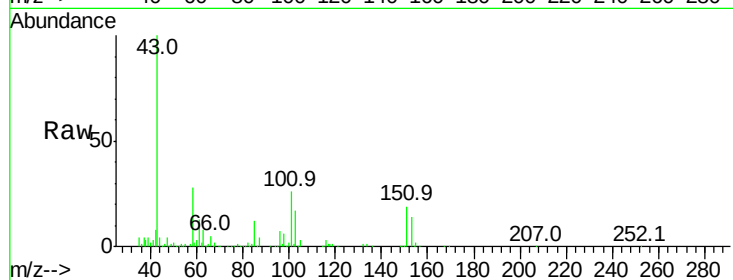
VSTD05016

Tgt Ion: 43 Resp: 234710

Ion Ratio Lower Upper

43 100

58 28.4 0.0 56.2



#14

Carbon disulfide

Concen: 56.912 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW010109.D

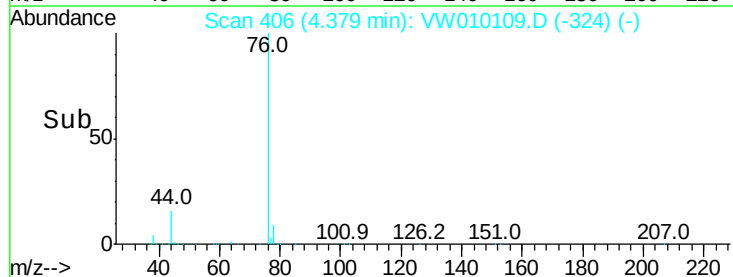
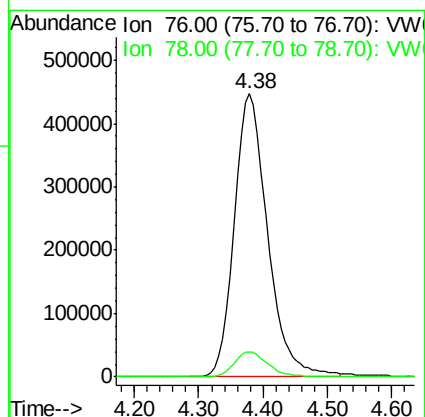
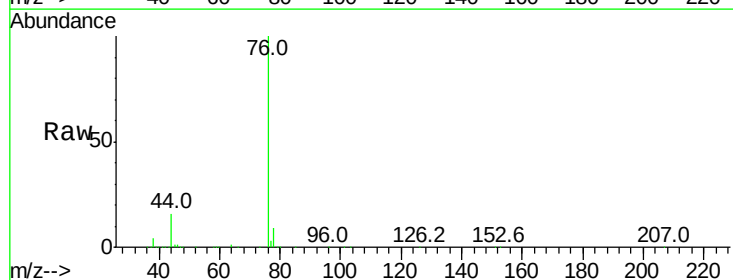
Acq: 24 Apr 2019 11:25

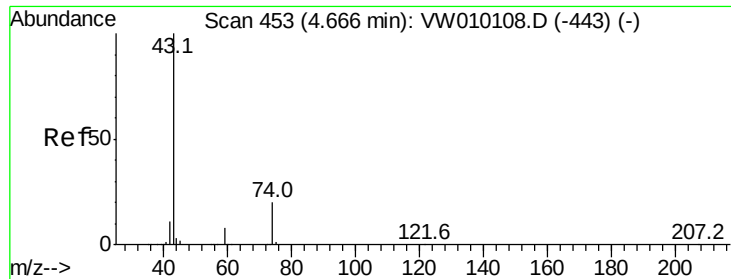
Tgt Ion: 76 Resp: 1608305

Ion Ratio Lower Upper

76 100

78 8.7 7.5 11.3

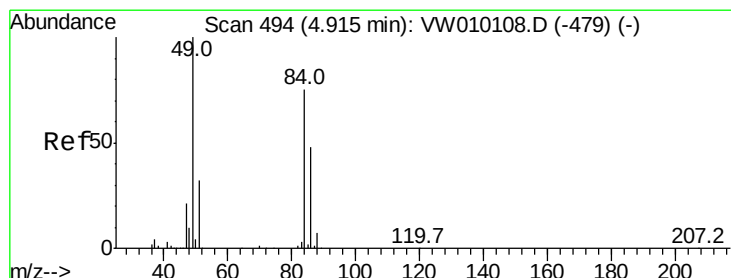
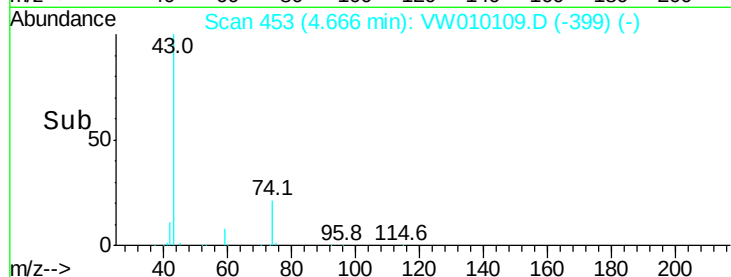
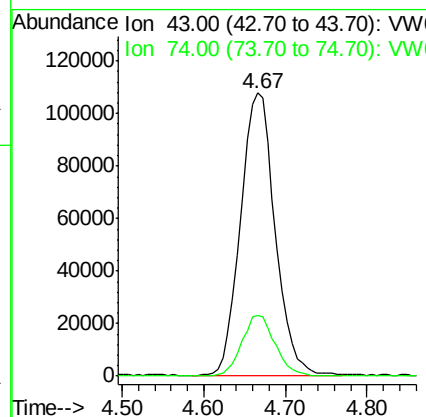
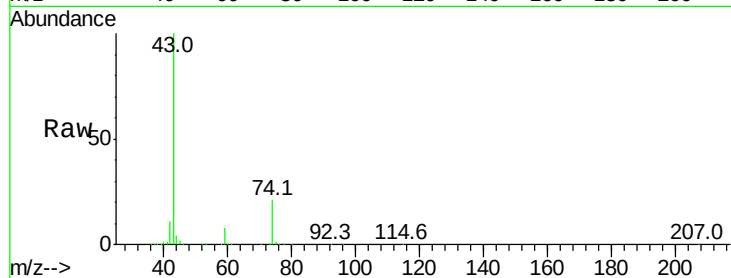




#15
Methyl Acetate
Concen: 41.605 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW010109.D
Acq: 24 Apr 2019 11:25

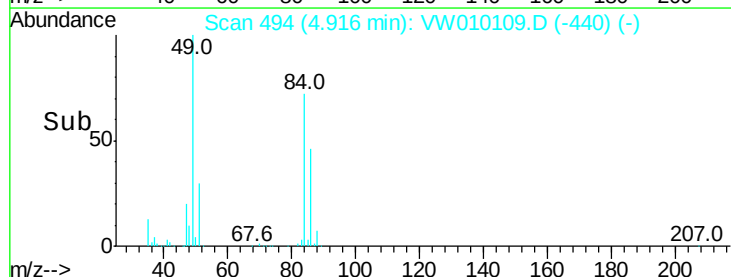
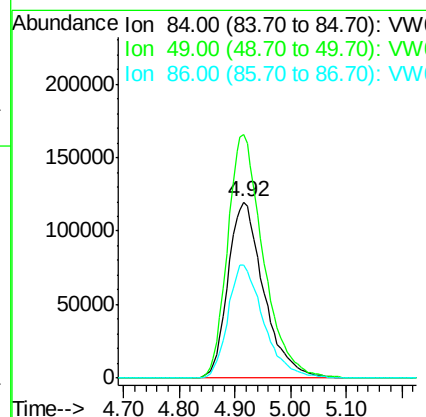
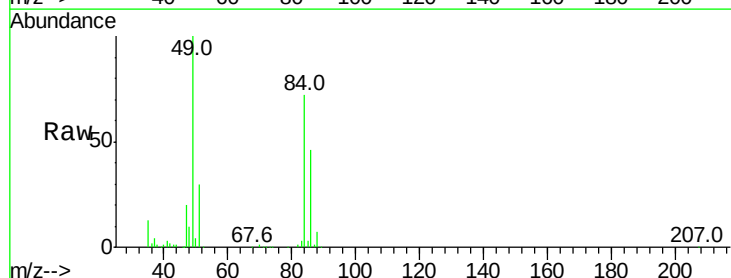
Instrument :
MSVOA_W
ClientSampleId :
VSTD05016

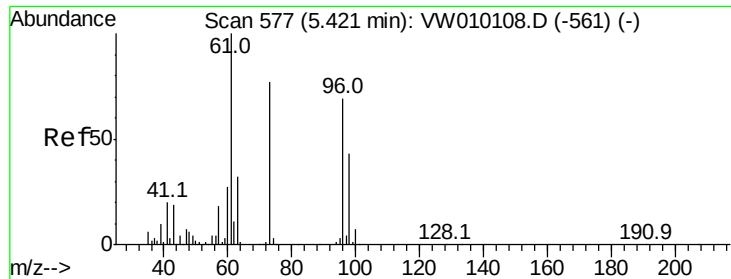
Tgt Ion: 43 Resp: 315201
Ion Ratio Lower Upper
43 100
74 20.8 16.2 24.4



#16
Methylene chloride
Concen: 35.687 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW010109.D
Acq: 24 Apr 2019 11:25

Tgt Ion: 84 Resp: 533570
Ion Ratio Lower Upper
84 100
49 138.3 100.7 187.1
86 63.9 43.8 81.3

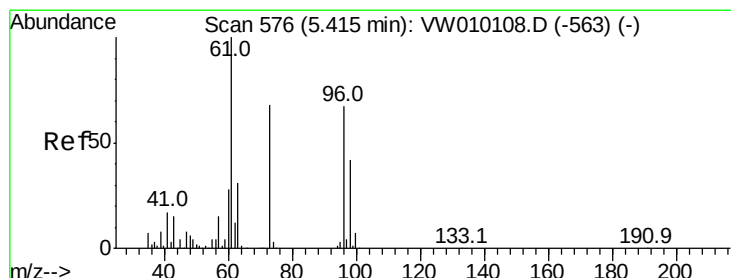
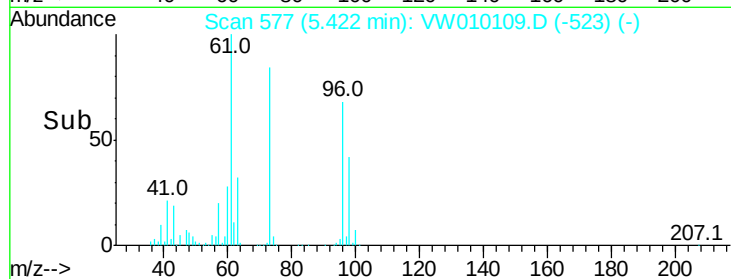
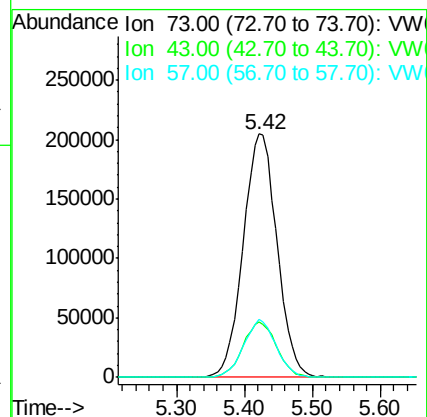
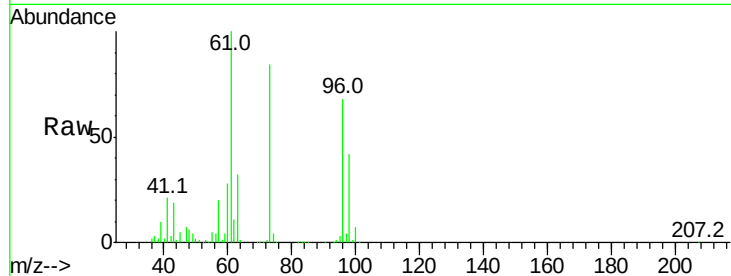




#17
Methyl tert-butyl Ether
Concen: 48.422 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW010109.D
Acq: 24 Apr 2019 11:25

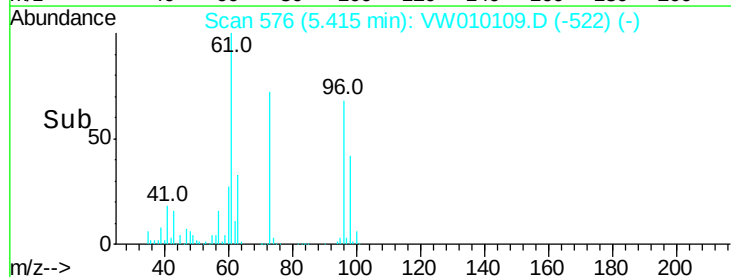
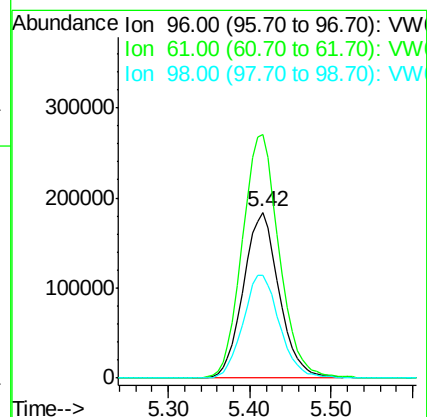
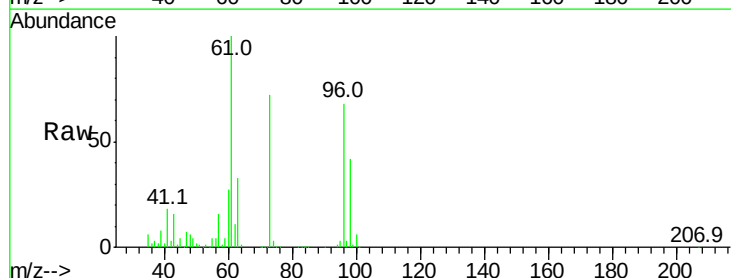
Instrument :
MSVOA_W
ClientSampled :
VSTD05016

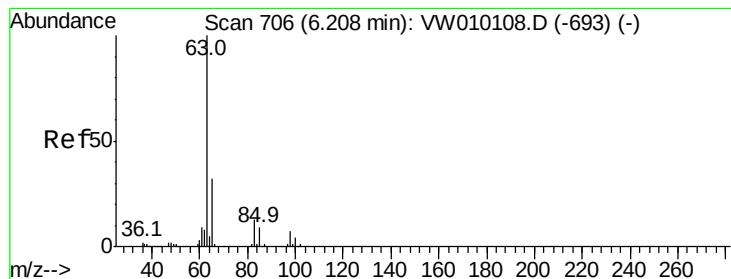
Tgt Ion	Ratio	Lower	Upper
73	100		
43	22.6	19.4	29.0
57	22.8	18.6	28.0



#18
trans-1,2-Dichloroethene
Concen: 49.829 ug/L
RT: 5.42 min Scan# 576
Delta R.T. 0.00 min
Lab File: VW010109.D
Acq: 24 Apr 2019 11:25

Tgt Ion	Ratio	Lower	Upper
96	100		
61	146.6	104.9	194.9
98	61.8	44.1	81.9





#19

1,1-Dichloroethane

Concen: 47.168 ug/L

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD05016

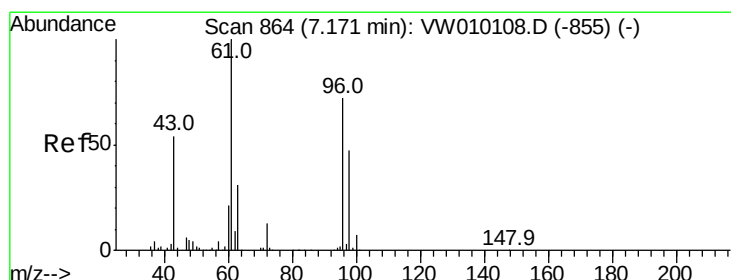
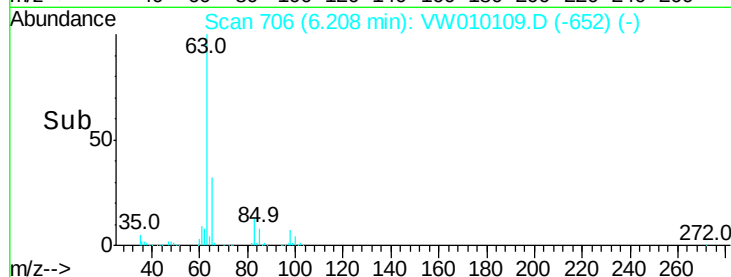
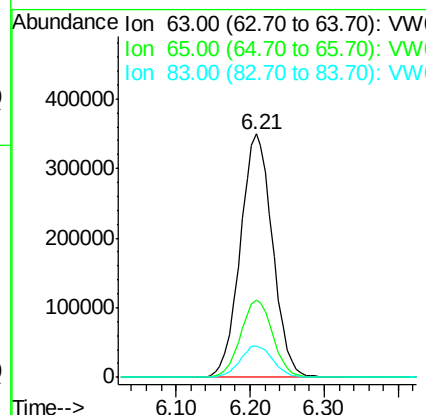
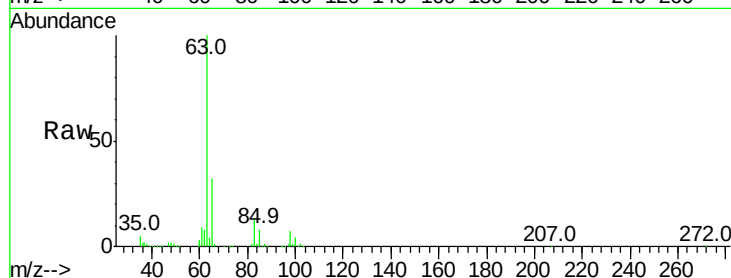
Tgt Ion: 63 Resp: 1060750

Ion	Ratio	Lower	Upper
63	100		
65	31.8	21.6	40.0
83	13.0	9.0	16.6

63 100

65 31.8 21.6 40.0

83 13.0 9.0 16.6



#21

2-Butanone

Concen: 86.909 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW010109.D

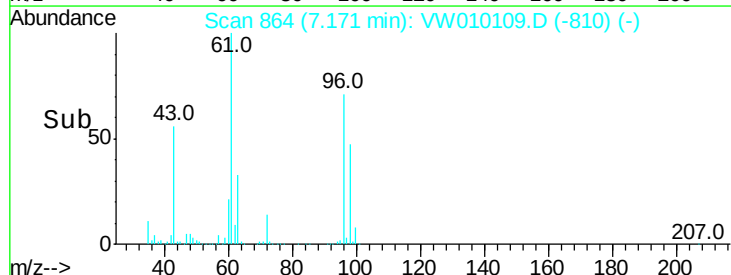
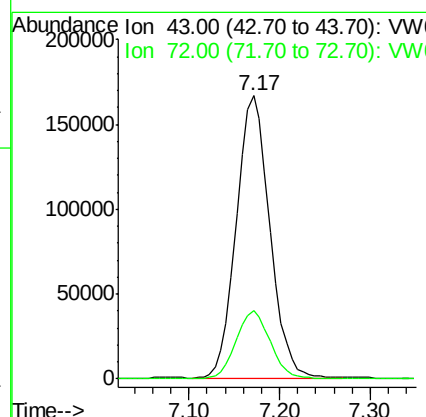
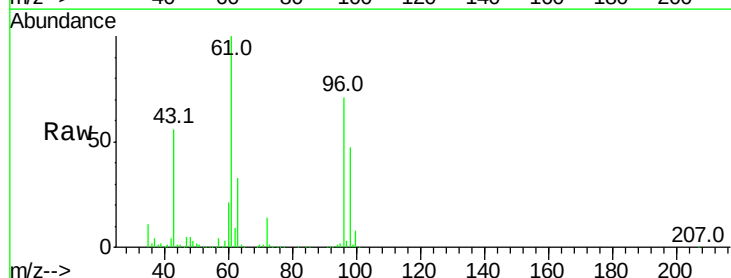
Acq: 24 Apr 2019 11:25

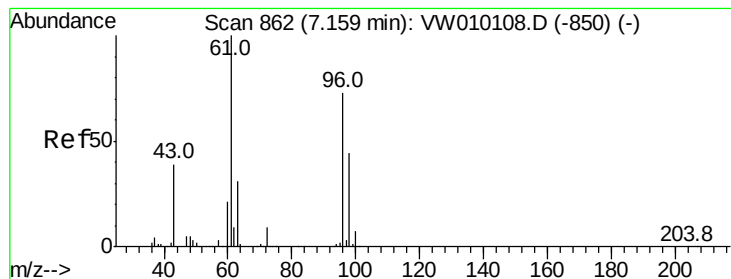
Tgt Ion: 43 Resp: 427168

Ion	Ratio	Lower	Upper
43	100		
72	24.6	11.9	35.7

43 100

72 24.6 11.9 35.7



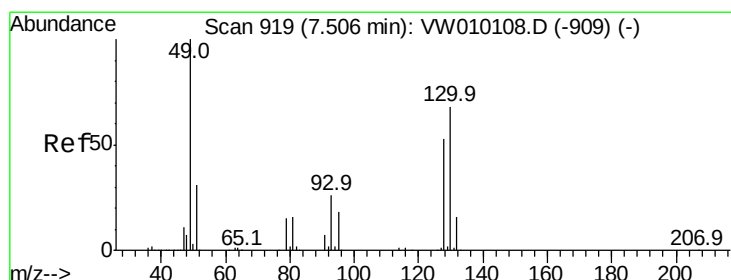
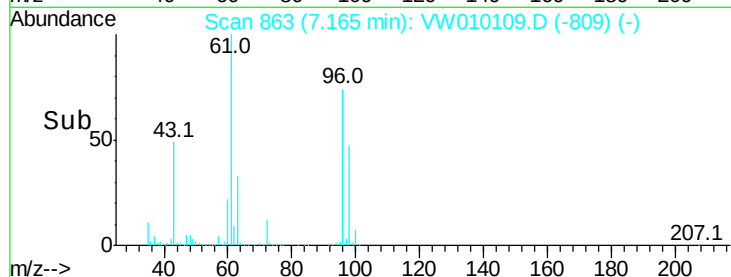
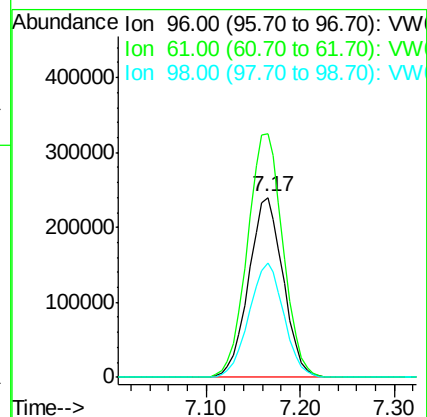
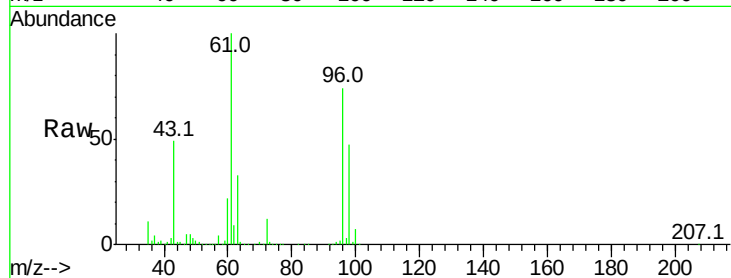


#22

cis-1,2-Dichloroethene
Concen: 50.402 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW010109.D
Acq: 24 Apr 2019 11:25

Instrument :
MSVOA_W
ClientSampleId :
VSTD05016

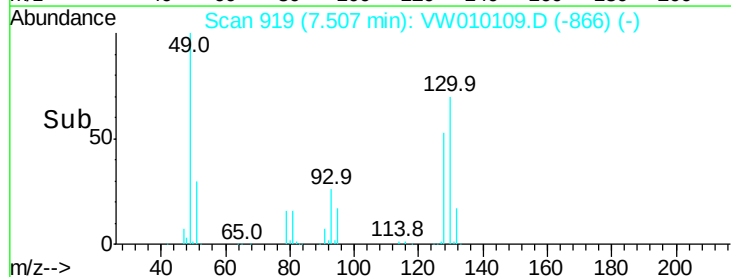
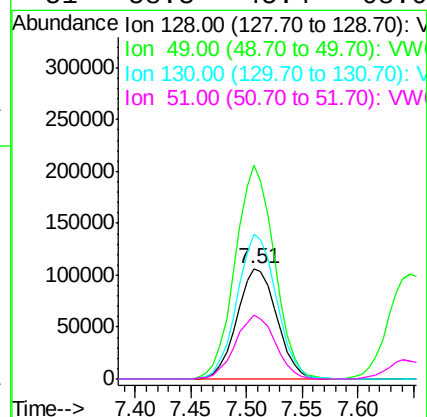
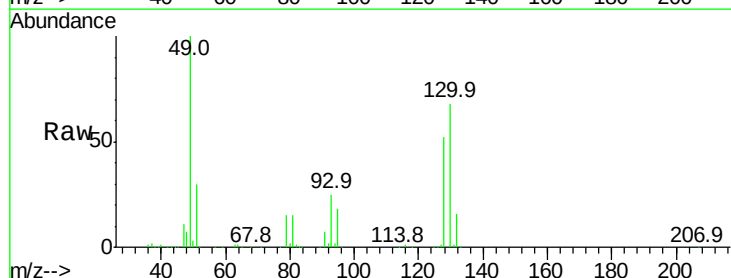
Tgt Ion: 96 Resp: 617116
Ion Ratio Lower Upper
96 100
61 135.2 94.7 175.9
98 63.6 42.8 79.6

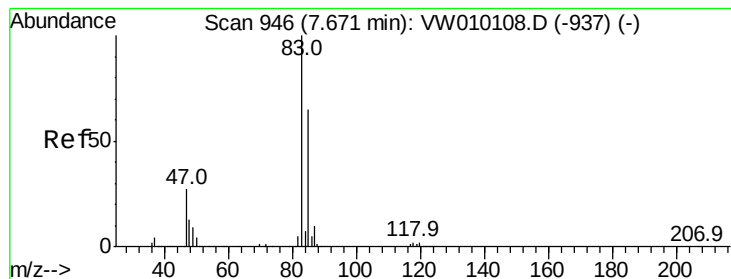


#23

Bromochloromethane
Concen: 46.455 ug/L
RT: 7.51 min Scan# 919
Delta R.T. -0.01 min
Lab File: VW010109.D
Acq: 24 Apr 2019 11:25

Tgt Ion: 128 Resp: 264889
Ion Ratio Lower Upper
128 100
49 193.1 132.2 245.4
130 130.6 91.5 169.9
51 58.3 45.4 68.0





#25

Chloroform

Concen: 45.988 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

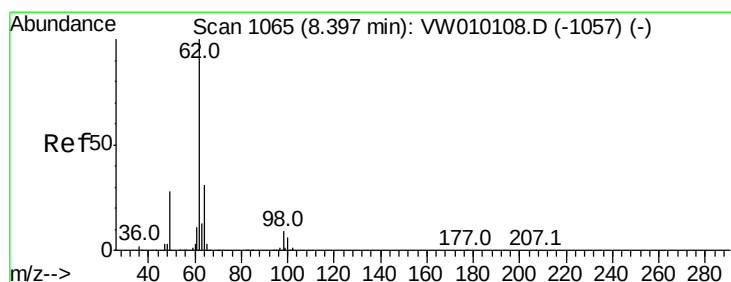
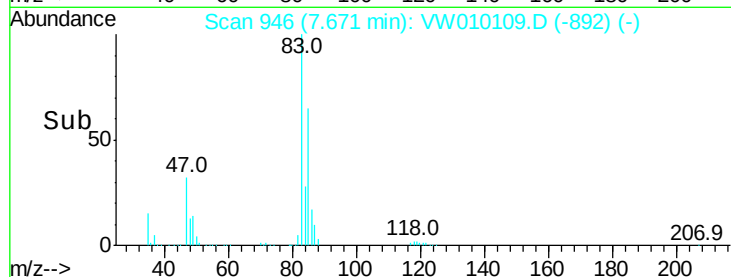
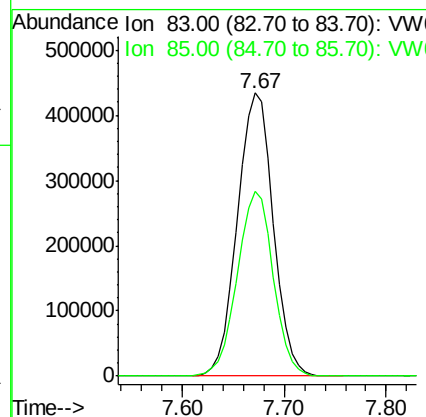
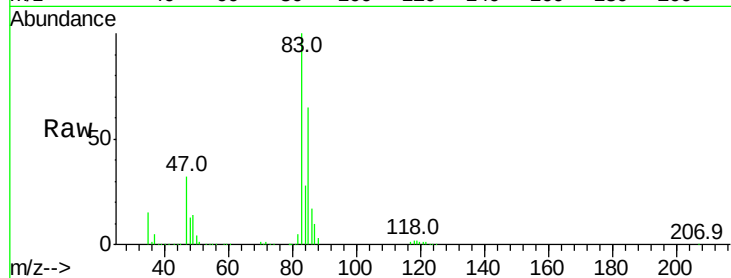
VSTD05016

Tgt Ion: 83 Resp: 1058246

Ion Ratio Lower Upper

83 100

85 65.5 45.5 84.5



#27

1,2-Dichloroethane

Concen: 43.032 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW010109.D

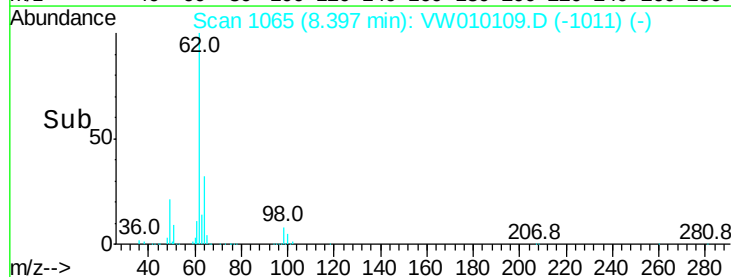
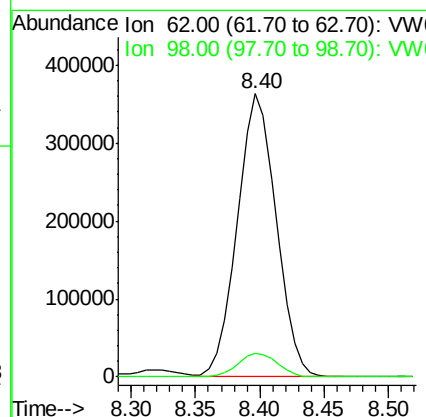
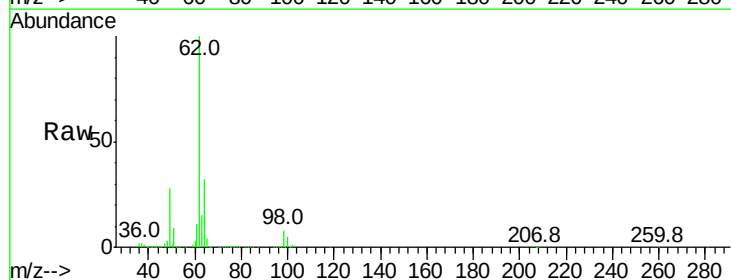
Acq: 24 Apr 2019 11:25

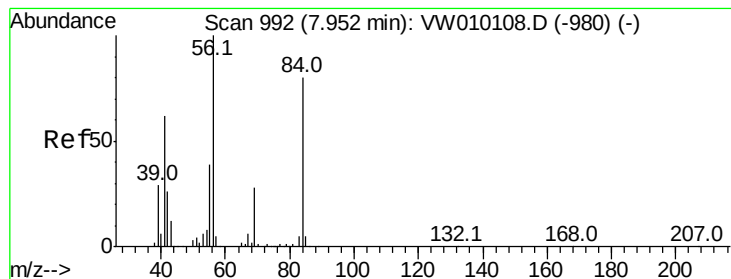
Tgt Ion: 62 Resp: 762355

Ion Ratio Lower Upper

62 100

98 8.4 6.6 10.0





#30

Cyclohexane

Concen: 59.378 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

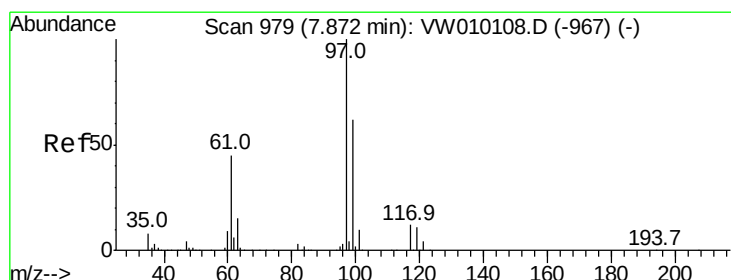
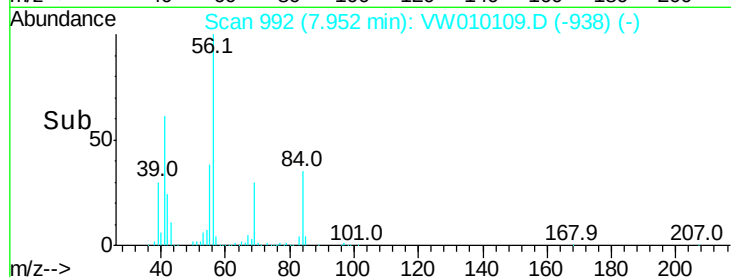
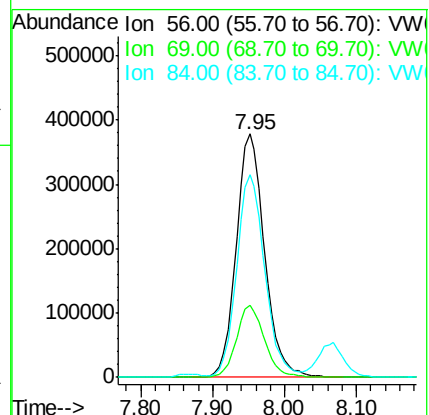
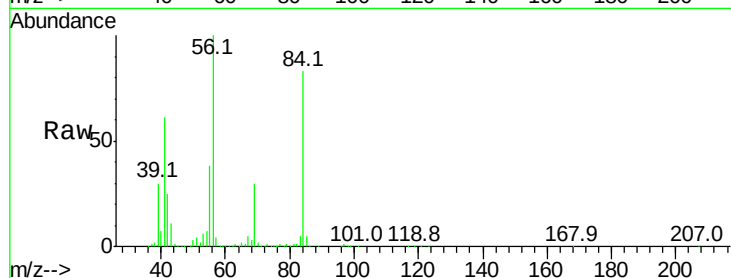
MSVOA_W

ClientSampleId :

VSTD05016

Tgt Ion: 56 Resp: 1035930

Ion	Ratio	Lower	Upper
56	100		
69	29.3	23.4	35.0
84	82.5	65.5	98.3



#31

1,1,1-Trichloroethane

Concen: 50.605 ug/L

RT: 7.87 min Scan# 978

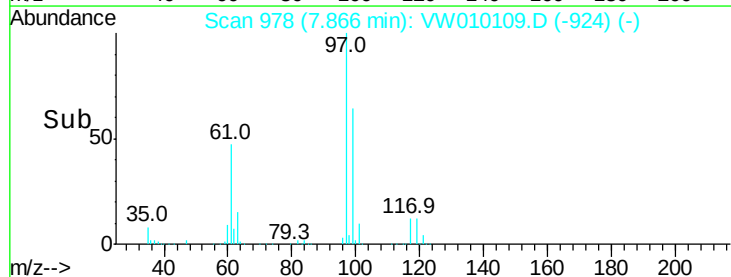
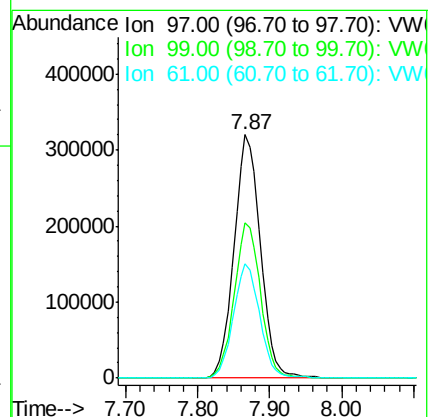
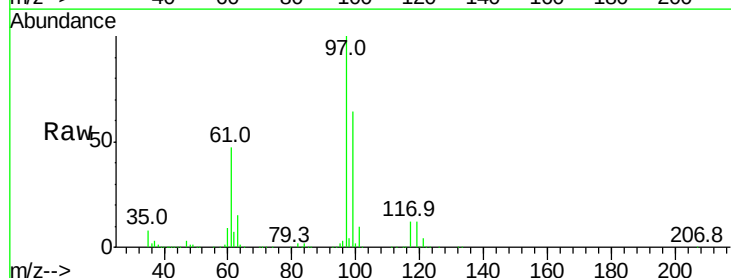
Delta R.T. 0.00 min

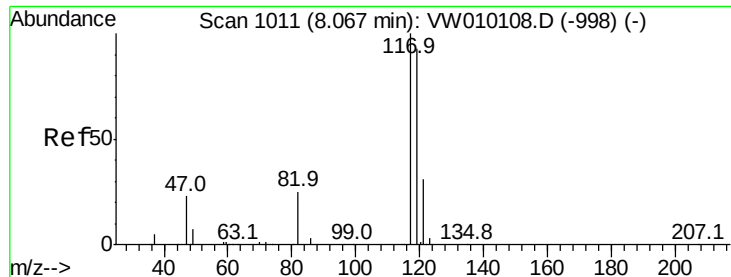
Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Tgt Ion: 97 Resp: 815826

Ion	Ratio	Lower	Upper
97	100		
99	63.9	50.8	76.2
61	47.0	39.3	58.9





#32

Carbon tetrachloride

Concen: 51.303 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

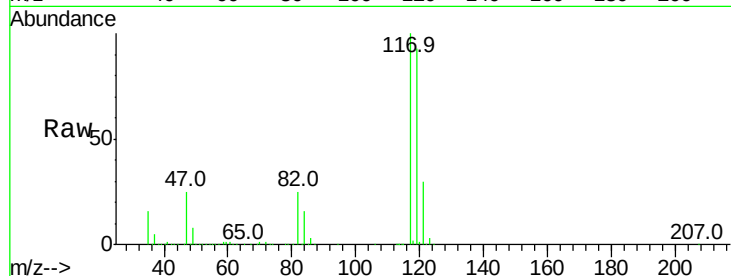
VSTD05016

Tgt Ion:117 Resp: 812050

Ion Ratio Lower Upper

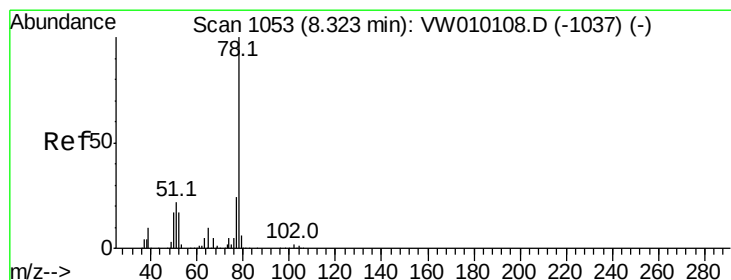
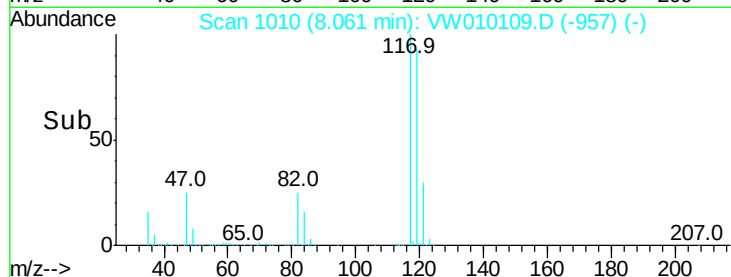
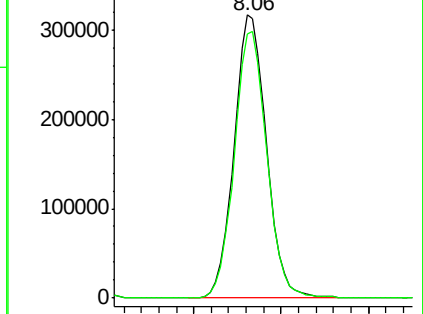
117 100

119 95.0 76.8 115.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 50.587 ug/L

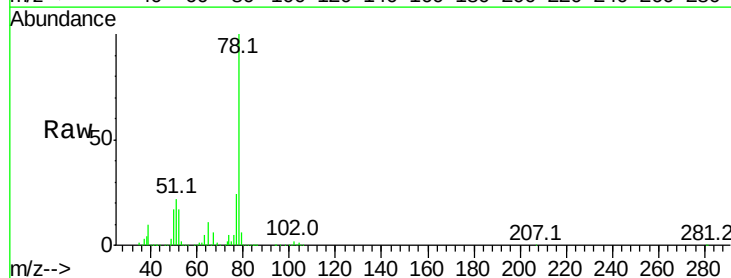
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Tgt Ion: 78 Resp: 2300440



Abundance Ion 78.00 (77.70 to 78.70): VW

1200000

1000000

800000

600000

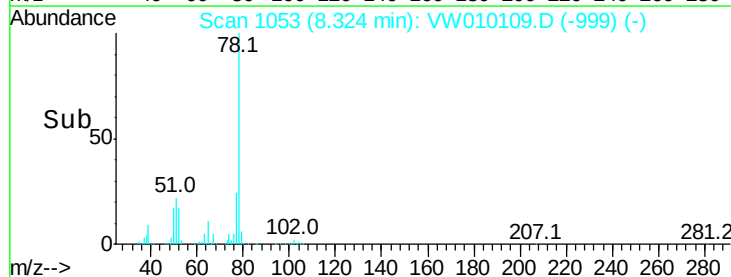
400000

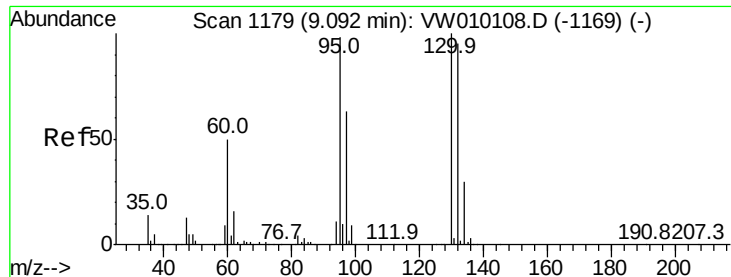
200000

0

8.32

Time-->





#35

Trichloroethene

Concen: 51.008 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD05016

Tgt Ion: 95 Resp: 603107

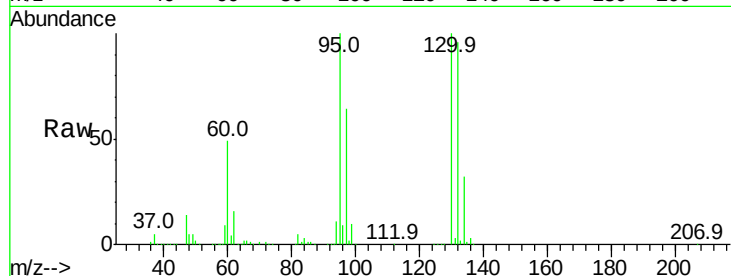
Ion Ratio Lower Upper

95 100

97 64.1 45.3 84.1

132 95.6 65.6 121.8

130 99.3 68.5 127.3

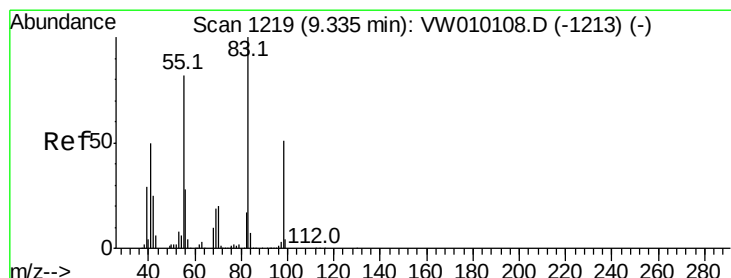
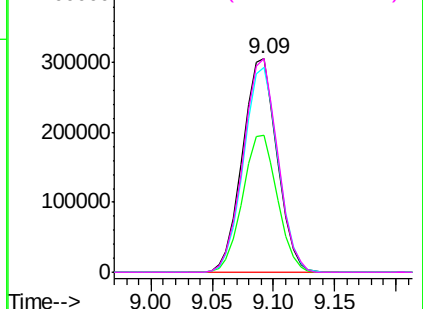
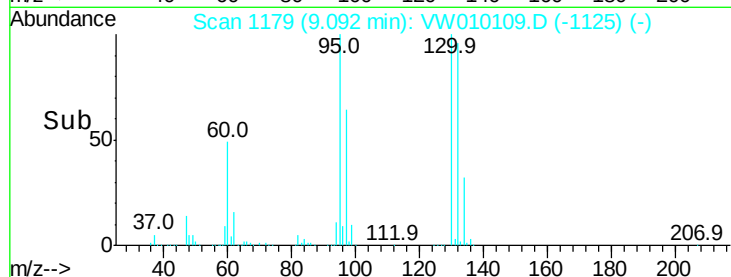


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 56.359 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

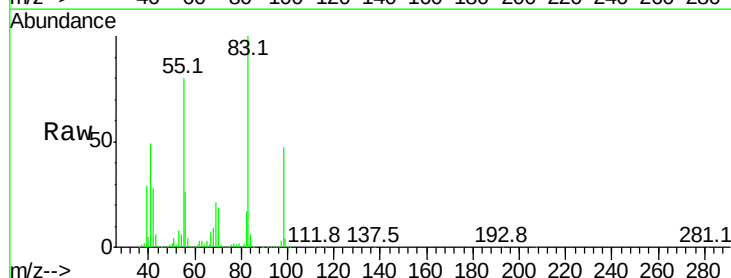
Tgt Ion: 83 Resp: 1070637

Ion Ratio Lower Upper

83 100

55 82.4 68.4 102.6

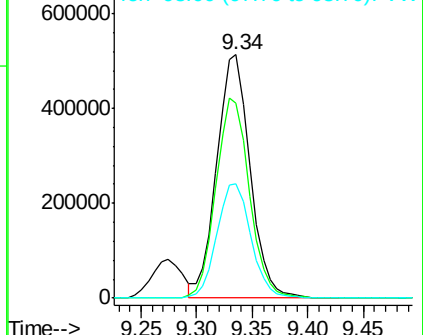
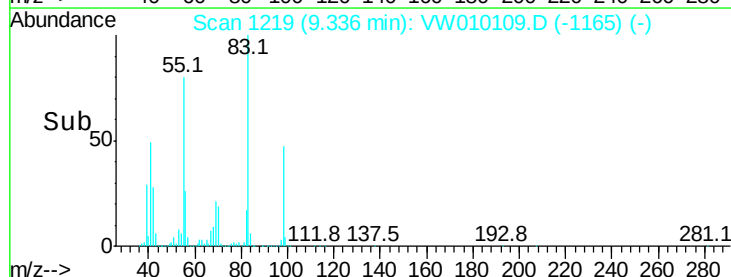
98 48.0 40.0 60.0

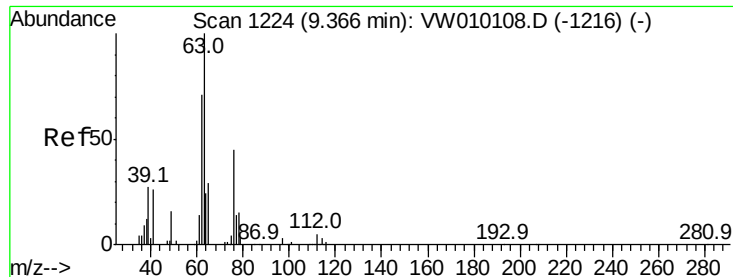


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 49.375 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

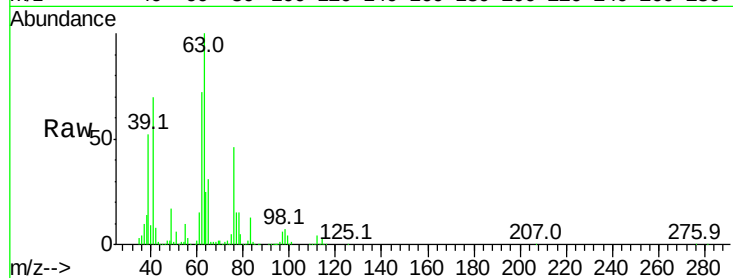
VSTD05016

Tgt Ion: 63 Resp: 593819

Ion Ratio Lower Upper

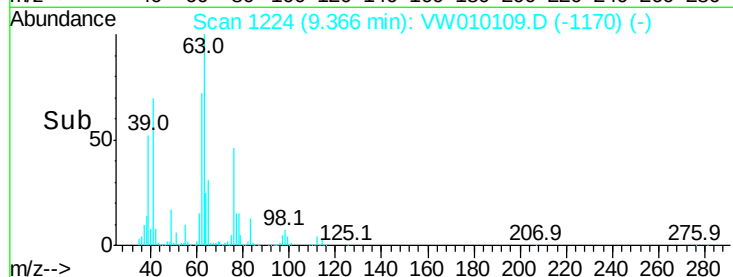
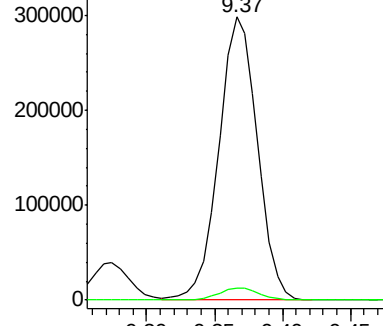
63 100

112 4.3 3.4 5.2

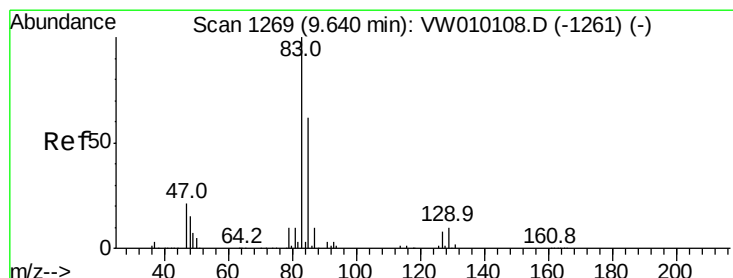


Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



Time-->



#41

Bromodichloromethane

Concen: 47.838 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

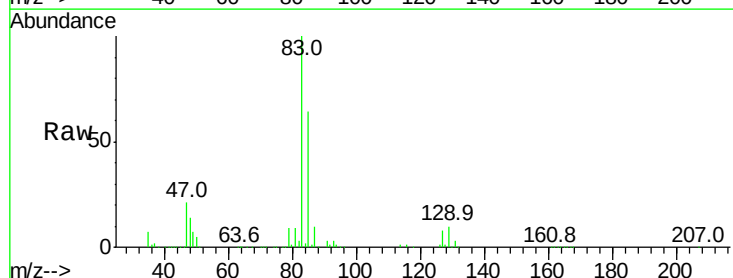
Tgt Ion: 83 Resp: 785459

Ion Ratio Lower Upper

83 100

85 63.9 45.1 83.9

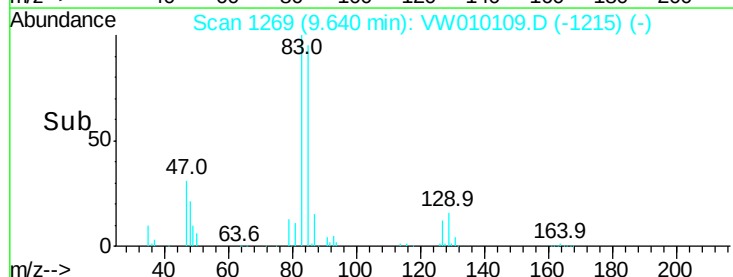
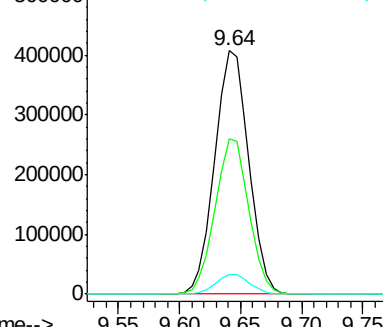
127 8.2 6.1 9.1



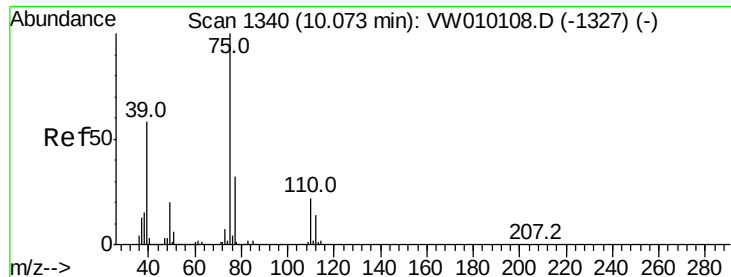
Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V



Time-->



#42

cis-1,3-Dichloropropene

Concen: 52.646 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

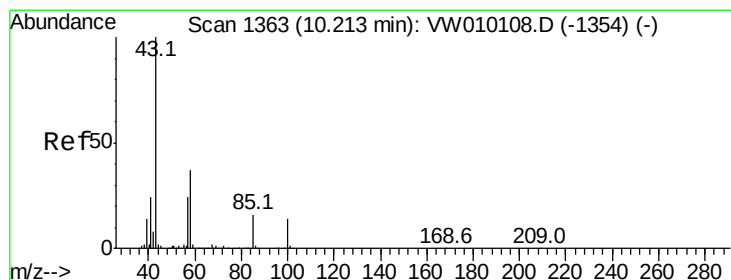
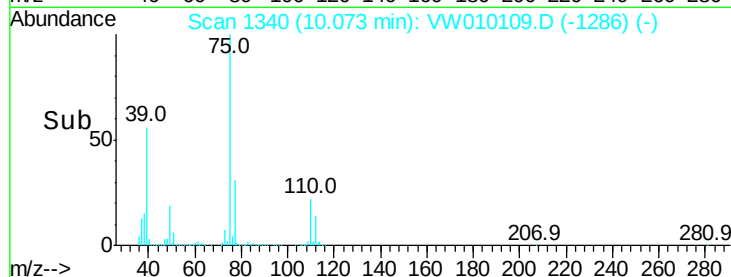
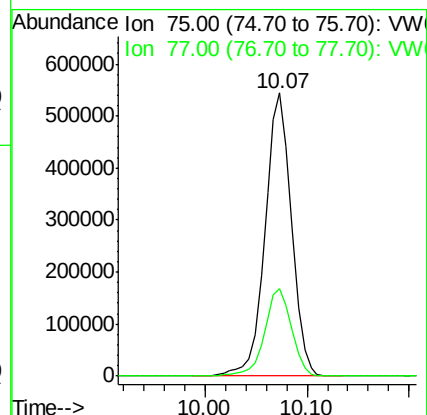
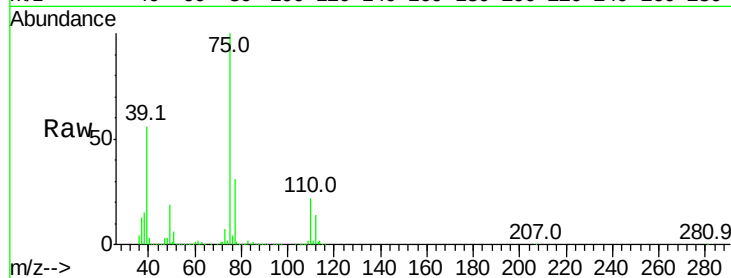
VSTD05016

Tgt Ion: 75 Resp: 976129

Ion Ratio Lower Upper

75 100

77 30.9 21.8 40.4



#43

4-Methyl-2-pentanone

Concen: 94.594 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

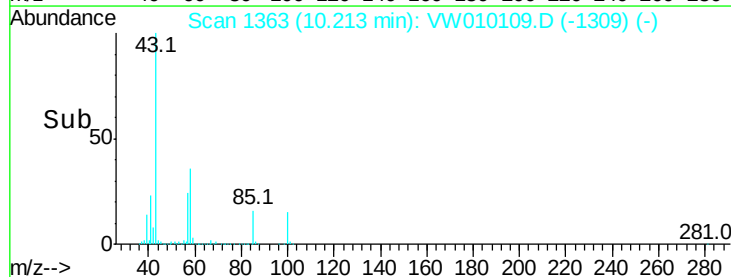
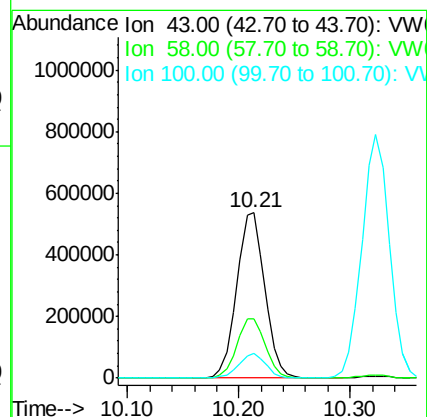
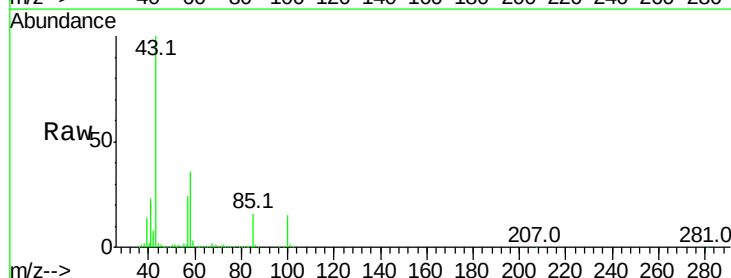
Tgt Ion: 43 Resp: 936958

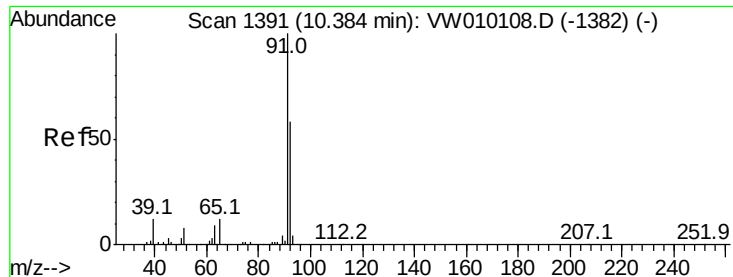
Ion Ratio Lower Upper

43 100

58 36.5 27.9 41.9

100 14.1 10.5 15.7





#44

Toluene

Concen: 51.208 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

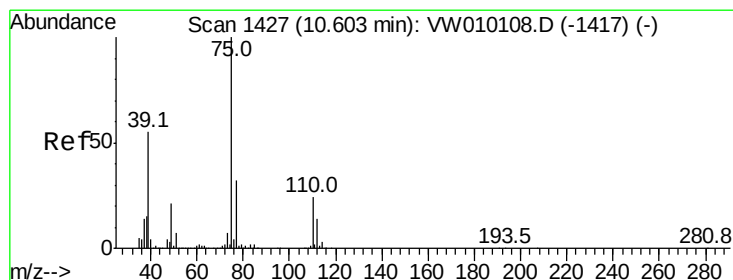
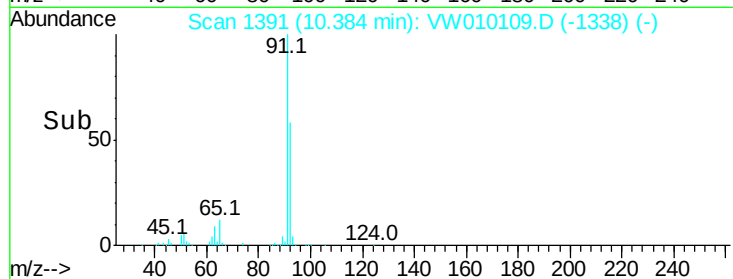
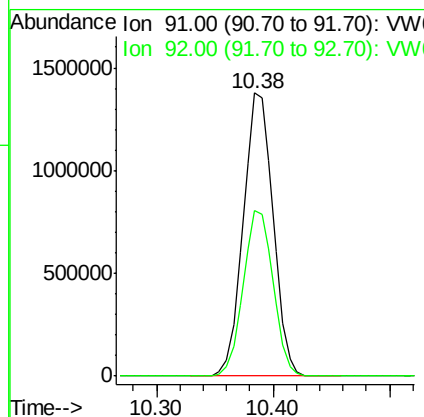
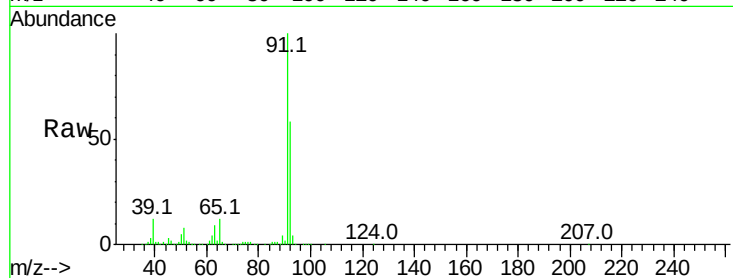
VSTD05016

Tgt Ion: 91 Resp: 2470441

Ion Ratio Lower Upper

91 100

92 58.3 39.8 74.0



#45

trans-1,3-Dichloropropene

Concen: 51.440 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW010109.D

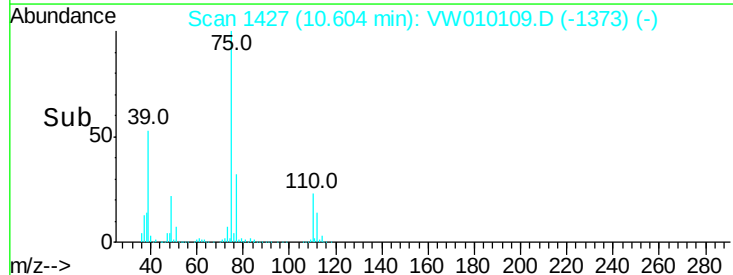
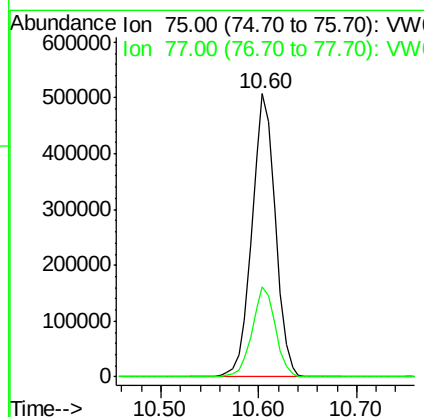
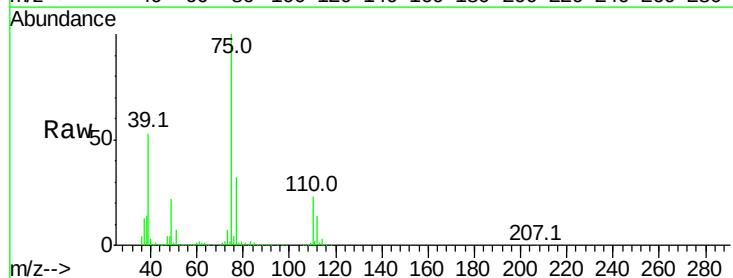
Acq: 24 Apr 2019 11:25

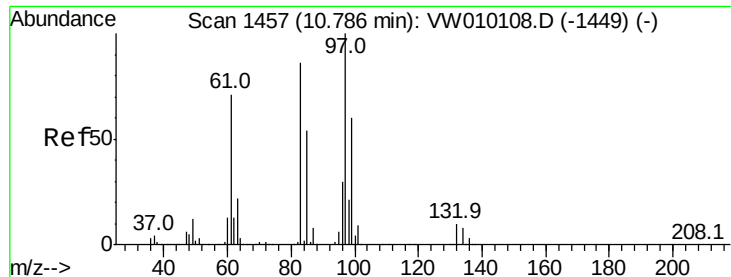
Tgt Ion: 75 Resp: 842166

Ion Ratio Lower Upper

75 100

77 32.0 22.0 41.0

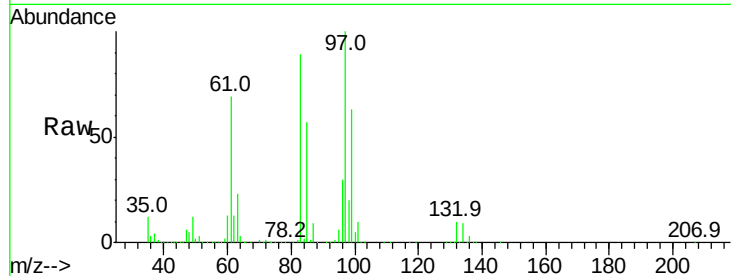




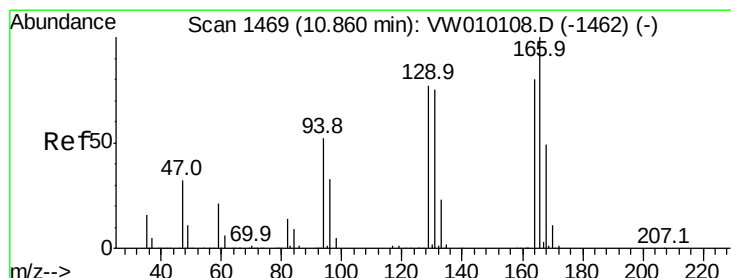
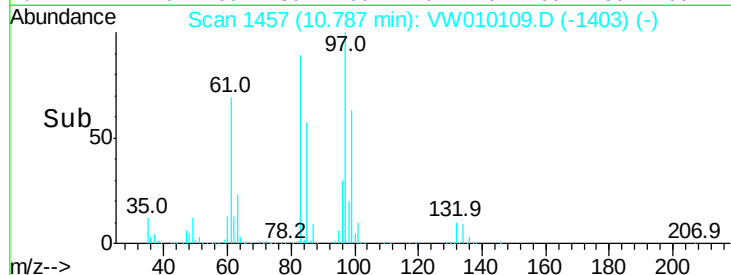
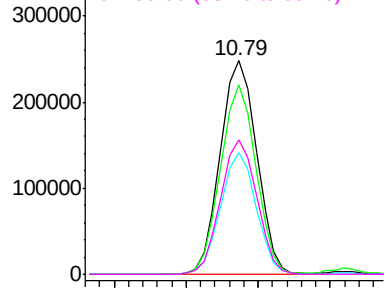
#46
 1,1,2-Trichloroethane
 Concen: 46.469 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW010109.D
 Acq: 24 Apr 2019 11:25

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05016

Tgt Ion: 97 Resp: 435848
 Ion Ratio Lower Upper
 97 100
 83 88.9 59.1 109.7
 85 56.7 39.3 73.1
 99 63.0 43.6 81.0

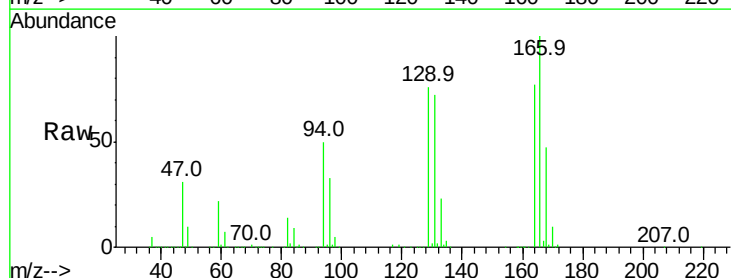


Abundance Ion 97.00 (96.70 to 97.70): VW

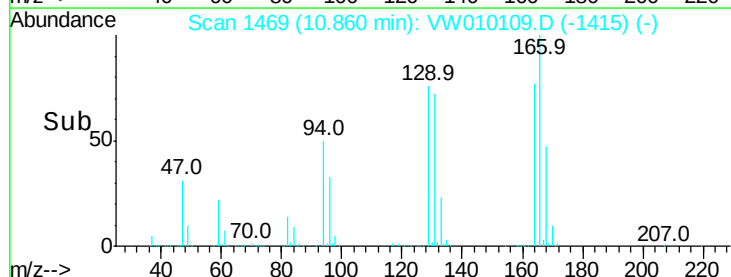
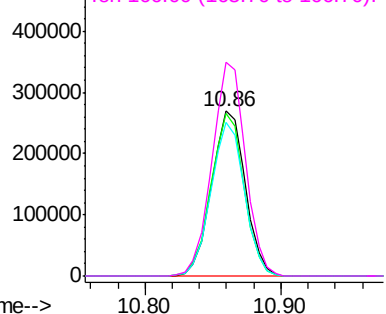


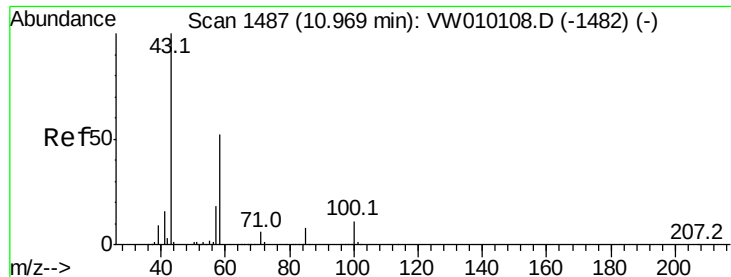
#47
 Tetrachloroethene
 Concen: 50.423 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VW010109.D
 Acq: 24 Apr 2019 11:25

Tgt Ion: 164 Resp: 465702
 Ion Ratio Lower Upper
 164 100
 129 98.5 66.8 124.2
 131 93.7 65.2 121.0
 166 129.7 89.0 165.2



Abundance Ion 164.00 (163.70 to 164.70): V





#49

2-Hexanone

Concen: 94.846 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD05016

Tgt Ion: 43 Resp: 667407

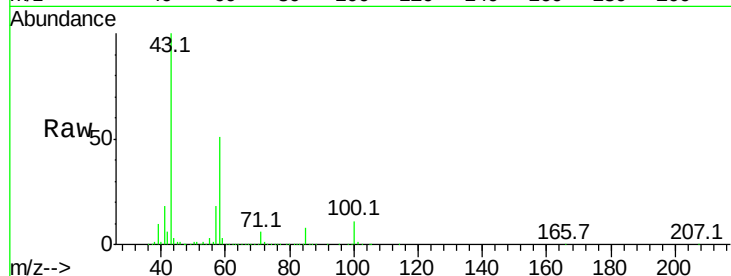
Ion Ratio Lower Upper

43 100

58 52.2 39.8 59.8

57 17.8 14.1 21.1

100 10.6 8.4 12.6

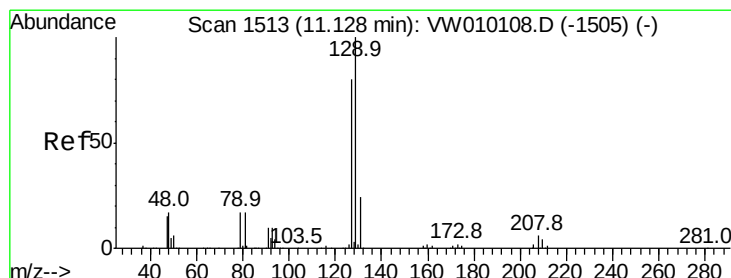
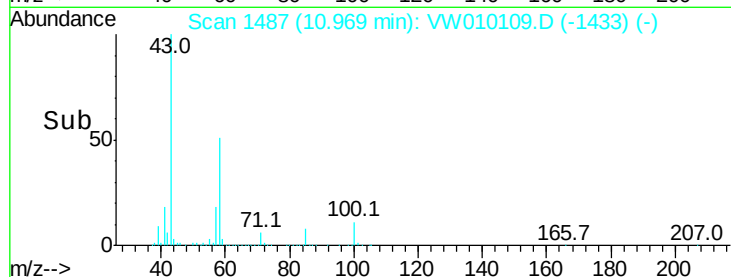
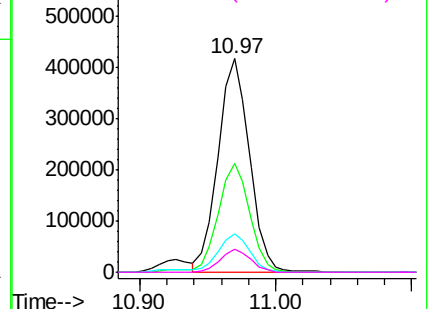


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#50

Dibromochloromethane

Concen: 48.011 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW010109.D

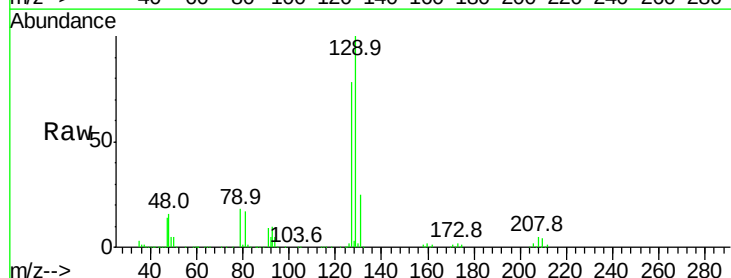
Acq: 24 Apr 2019 11:25

Tgt Ion: 129 Resp: 534527

Ion Ratio Lower Upper

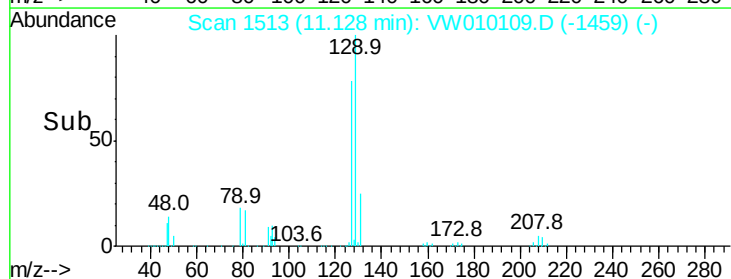
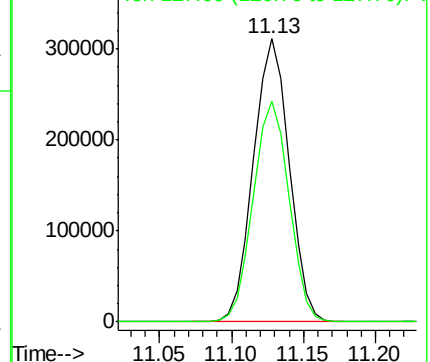
129 100

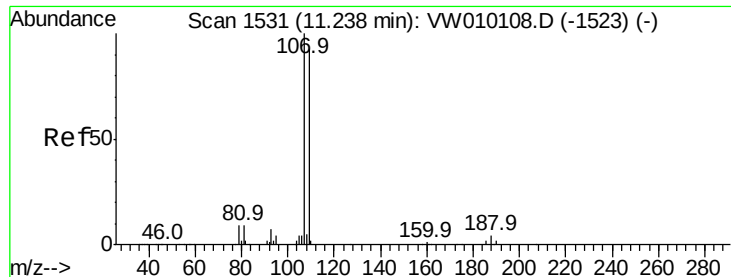
127 77.8 53.5 99.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 46.422 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD05016

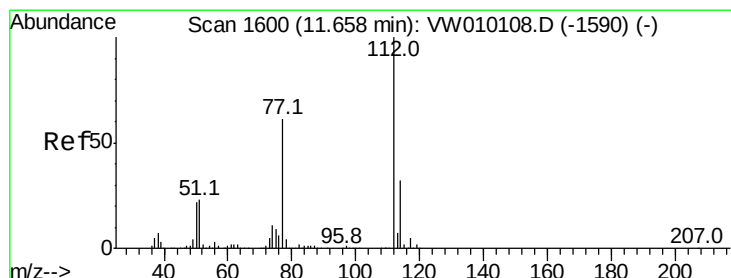
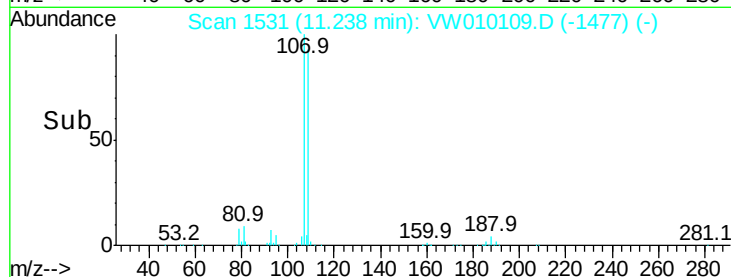
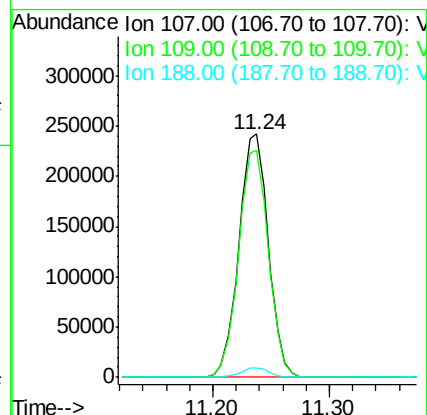
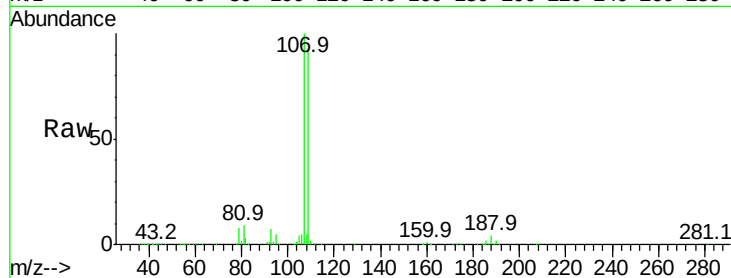
Tgt Ion:107 Resp: 426209

Ion Ratio Lower Upper

107 100

109 93.3 66.4 123.4

188 3.8 2.7 4.1



#52

Chlorobenzene

Concen: 49.133 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

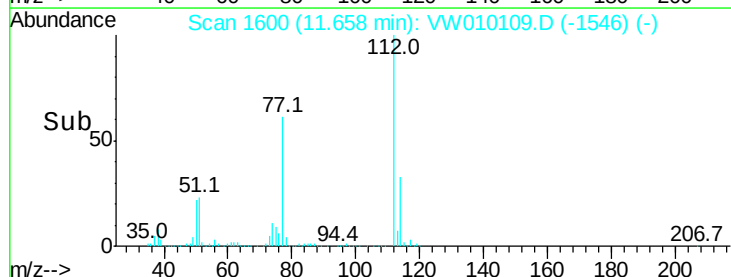
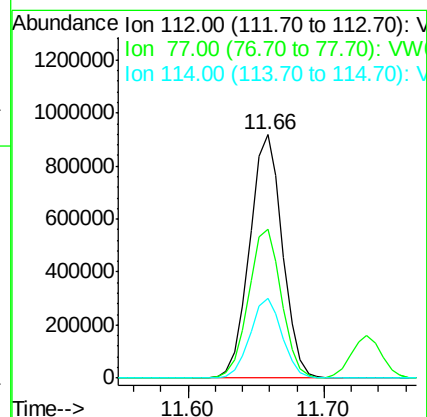
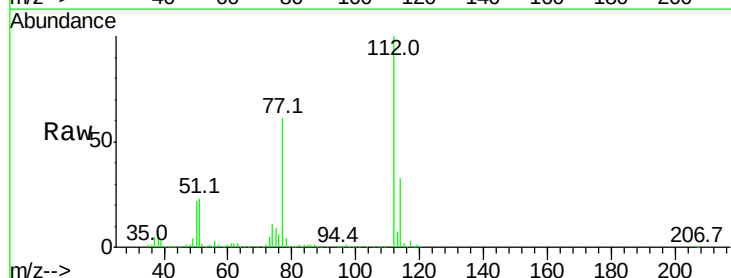
Tgt Ion:112 Resp: 1546717

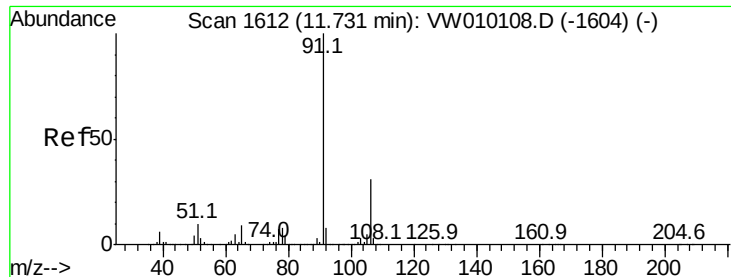
Ion Ratio Lower Upper

112 100

77 61.2 50.2 75.4

114 32.7 22.7 42.3





#53

Ethylbenzene

Concen: 52.423 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

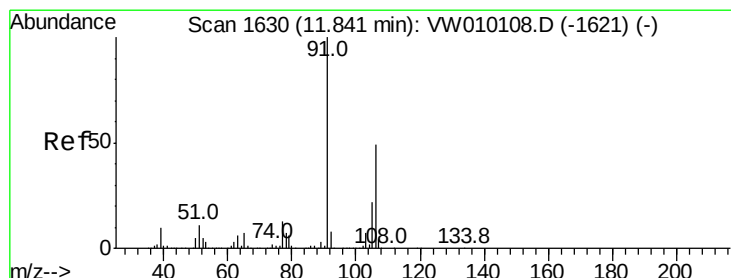
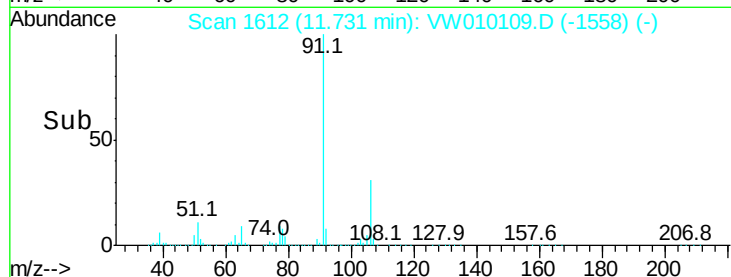
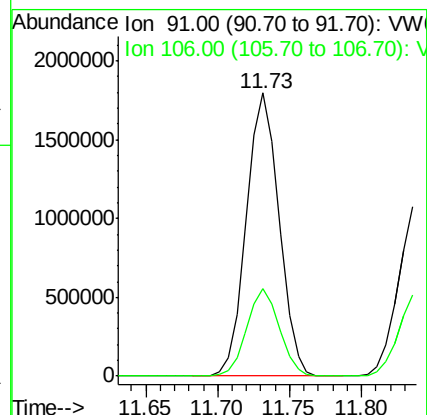
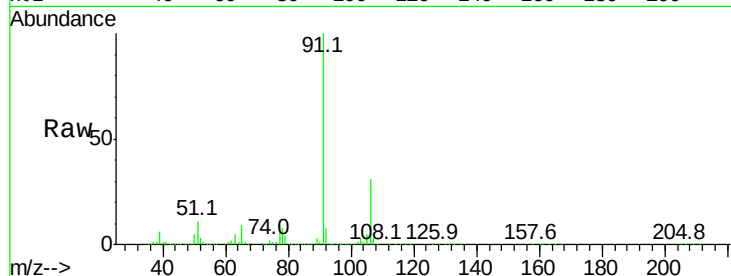
VSTD05016

Tgt Ion: 91 Resp: 2826782

Ion Ratio Lower Upper

91 100

106 30.8 21.8 40.4



#54

m,p-Xylene

Concen: 53.216 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW010109.D

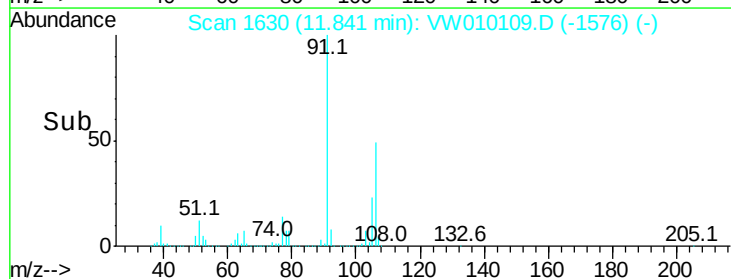
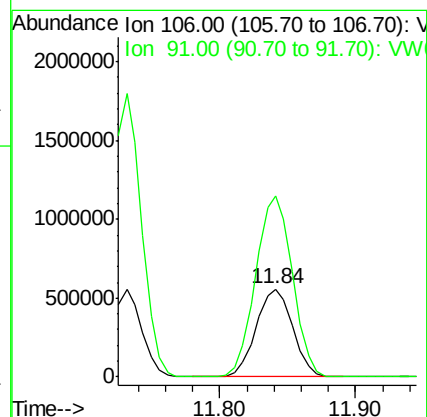
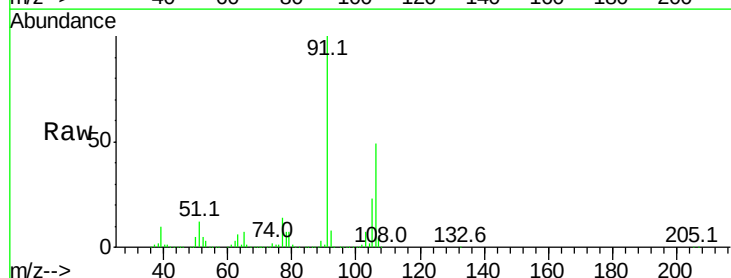
Acq: 24 Apr 2019 11:25

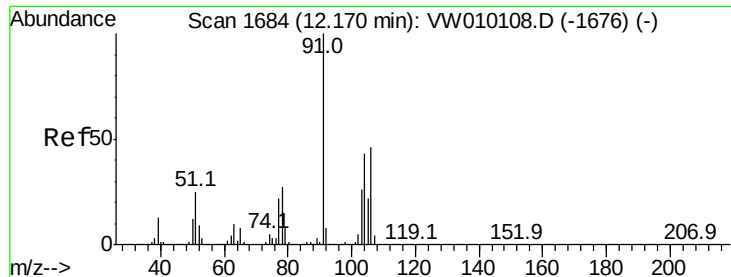
Tgt Ion: 106 Resp: 1049601

Ion Ratio Lower Upper

106 100

91 205.7 143.4 266.2





#55

o-xylene

Concen: 53.408 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampled :

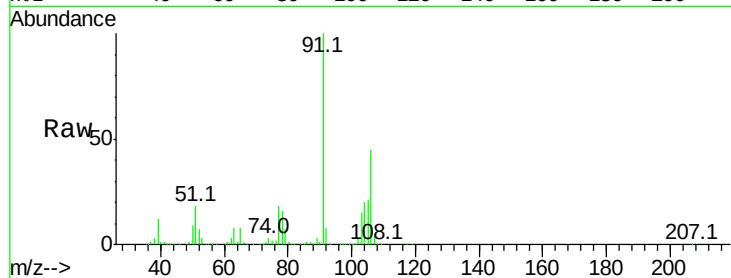
VSTD05016

Tgt Ion:106 Resp: 1010322

Ion Ratio Lower Upper

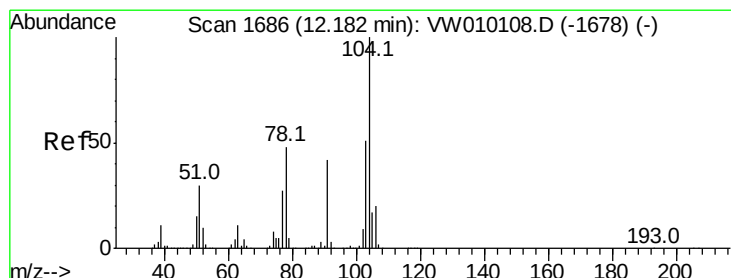
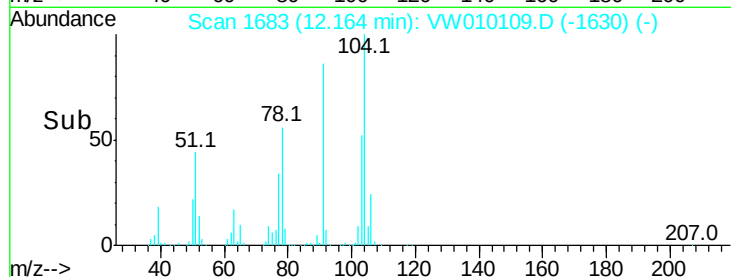
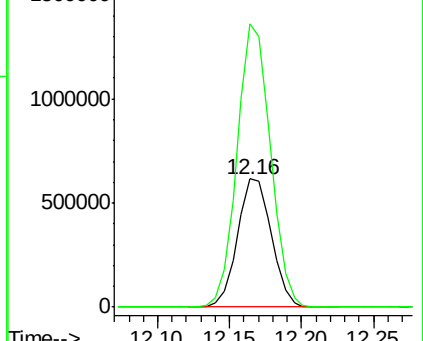
106 100

91 220.8 152.2 282.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 52.323 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW010109.D

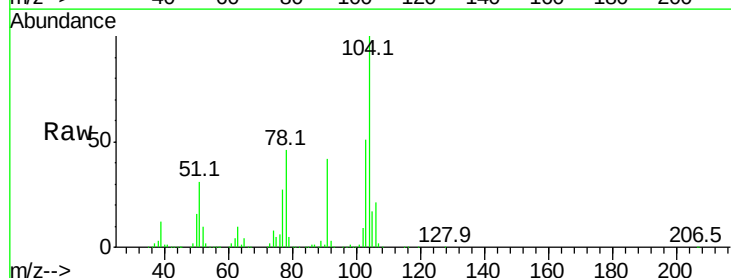
Acq: 24 Apr 2019 11:25

Tgt Ion:104 Resp: 1732744

Ion Ratio Lower Upper

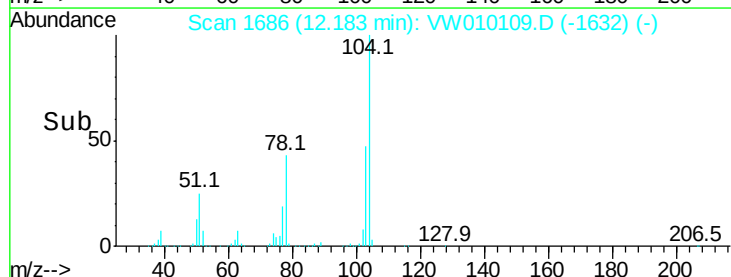
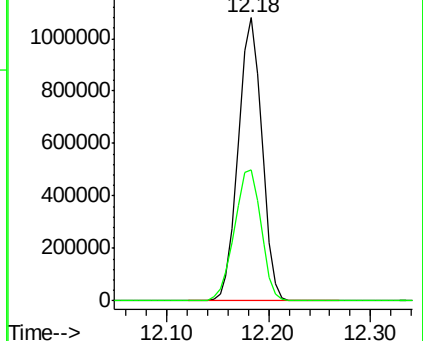
104 100

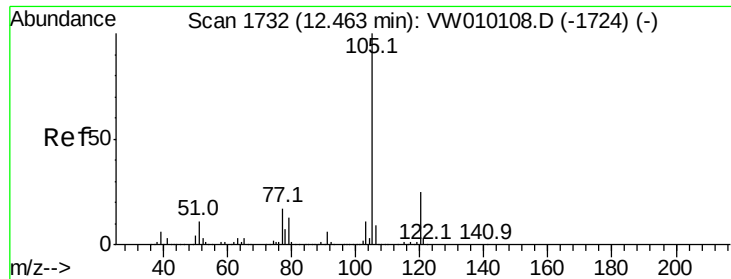
78 46.4 32.7 60.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 54.092 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD05016

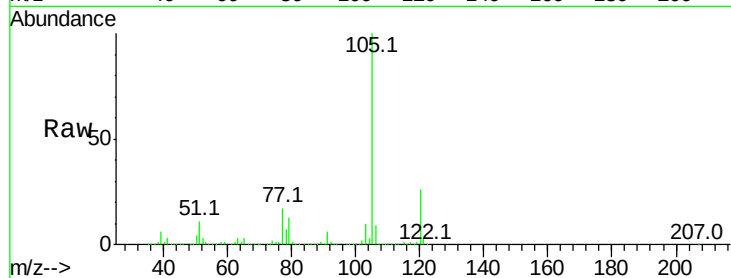
Tgt Ion:105 Resp: 2725486

Ion Ratio Lower Upper

105 100

120 26.2 20.6 30.8

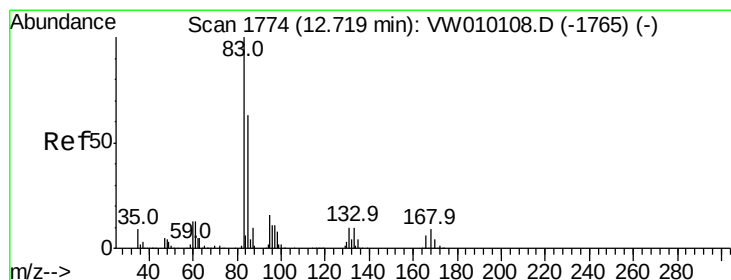
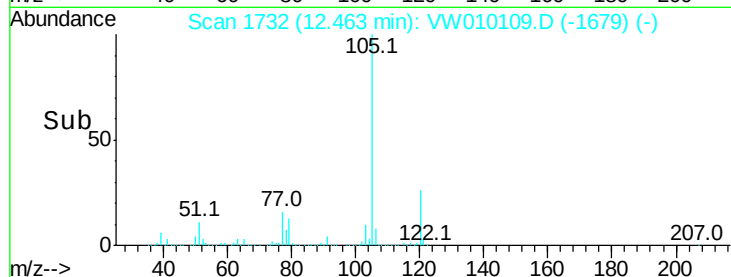
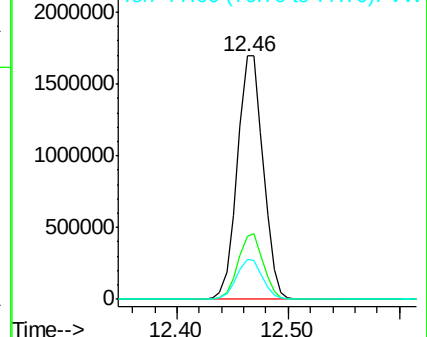
77 16.3 13.4 20.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 43.935 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

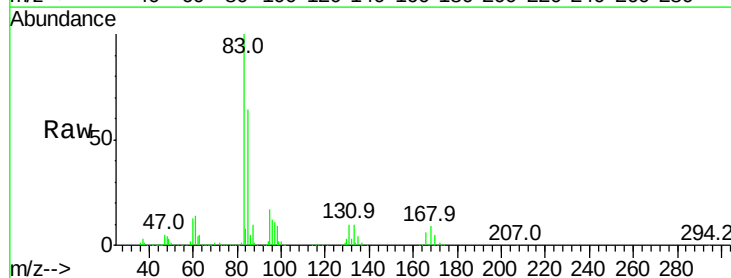
Tgt Ion: 83 Resp: 542099

Ion Ratio Lower Upper

83 100

85 64.2 44.1 81.9

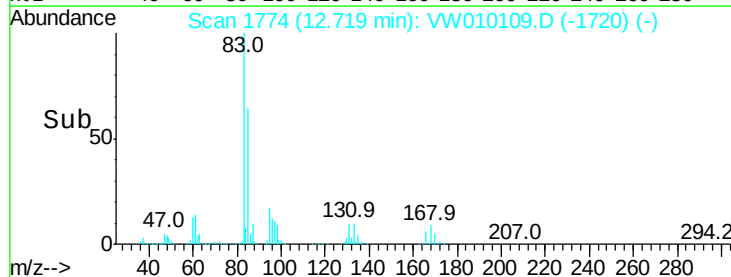
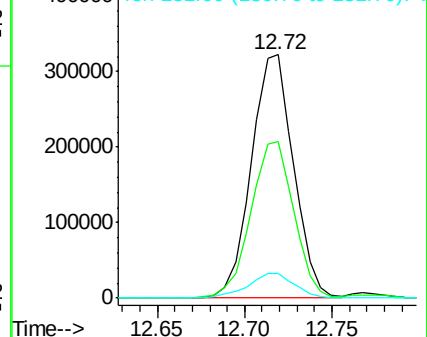
131 10.1 8.3 12.5

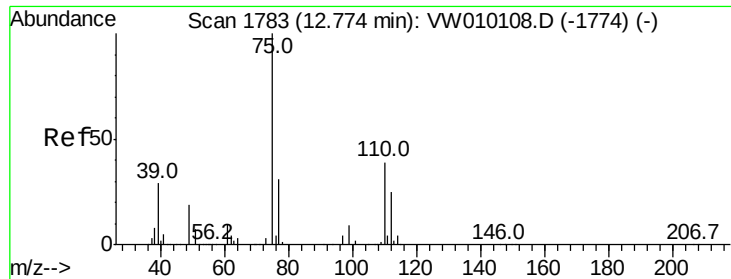


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

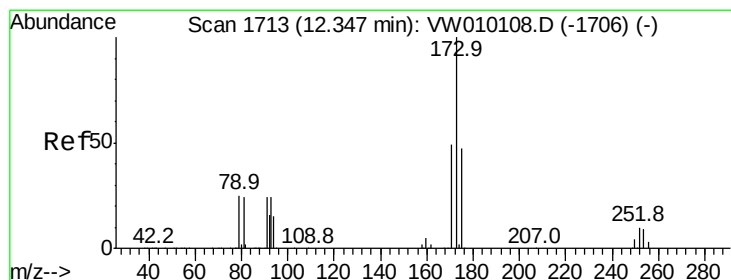
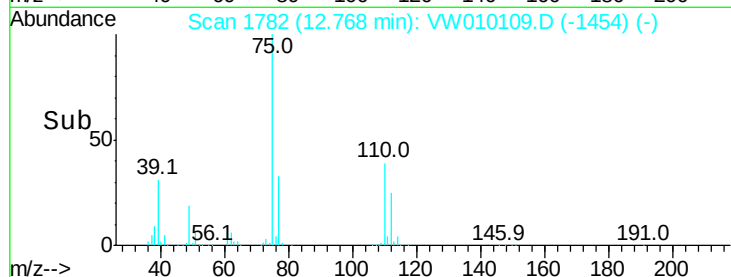
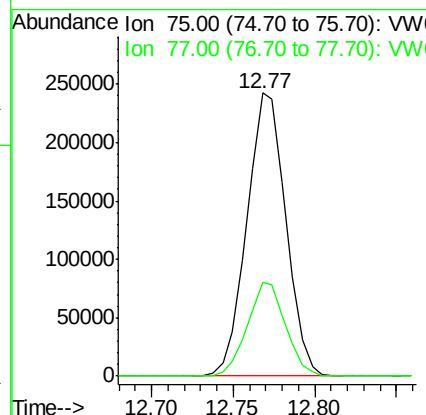
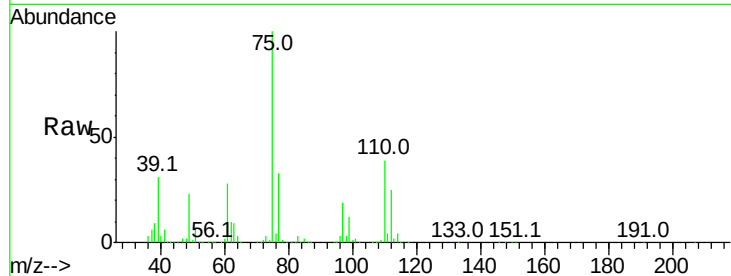




#59
 1,2,3-Trichloropropane
 Concen: 43.623 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. 0.00 min
 Lab File: VW010109.D
 Acq: 24 Apr 2019 11:25

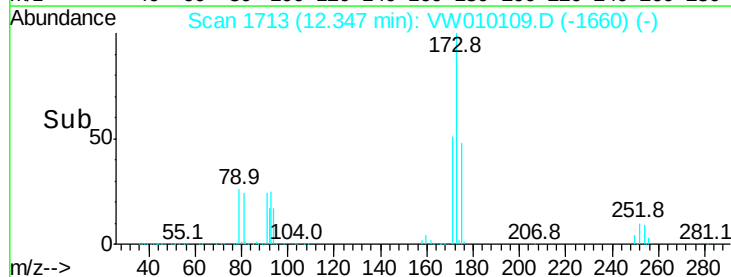
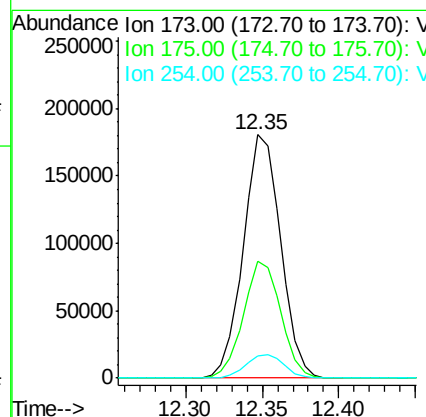
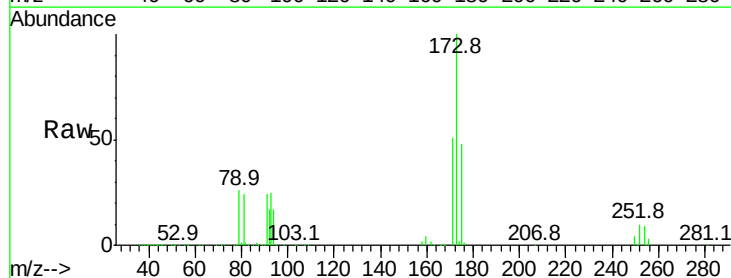
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD05016

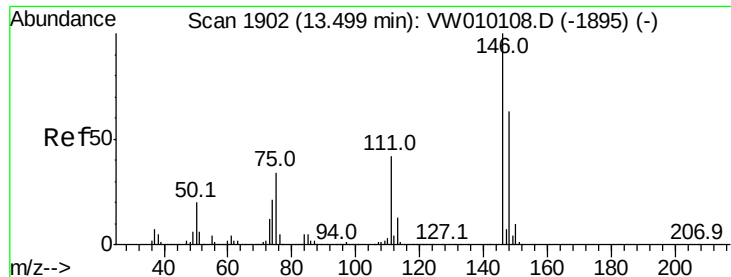
Tgt Ion: 75 Resp: 402812
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.8 38.6



#62
 Bromoform
 Concen: 46.824 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. -0.01 min
 Lab File: VW010109.D
 Acq: 24 Apr 2019 11:25

Tgt Ion: 173 Resp: 307207
 Ion Ratio Lower Upper
 173 100
 175 48.0 38.4 57.6
 254 10.0 7.7 11.5

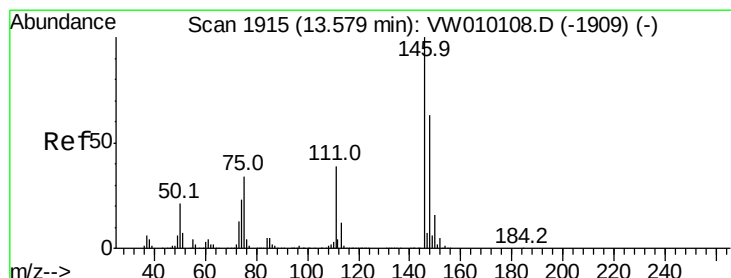
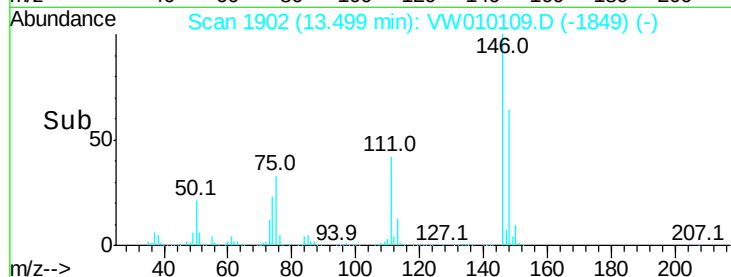
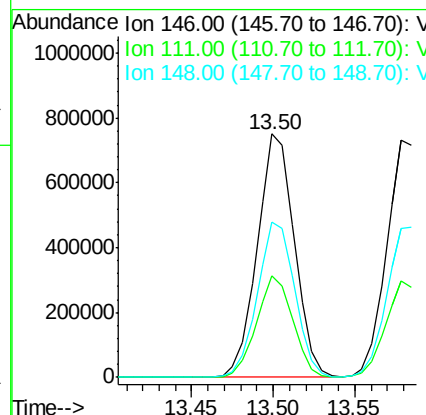
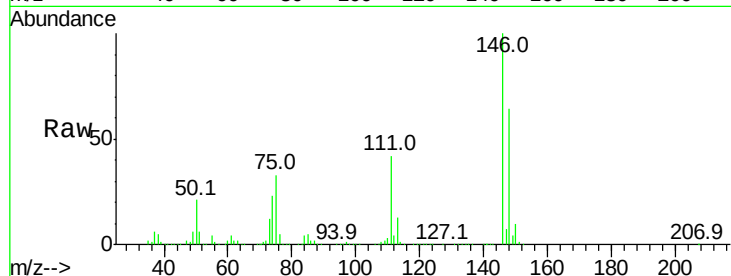




#63
 1,3-Dichlorobenzene
 Concen: 52.722 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.01 min
 Lab File: VW010109.D
 Acq: 24 Apr 2019 11:25

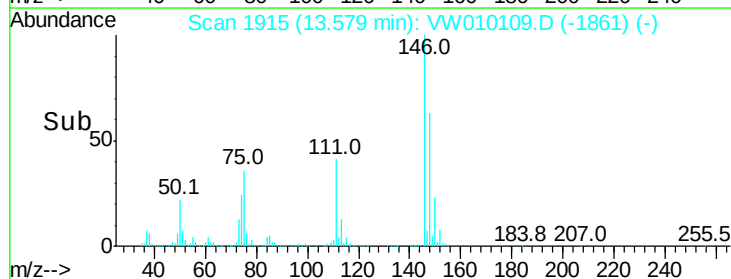
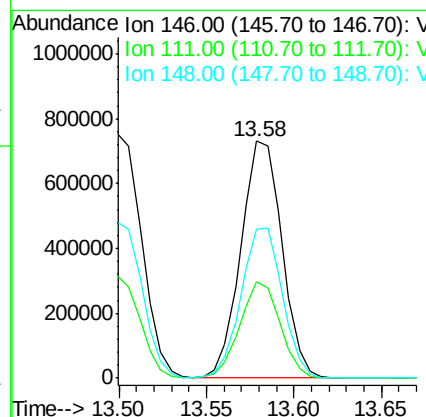
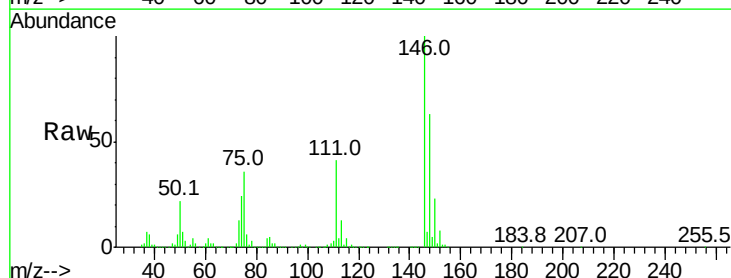
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05016

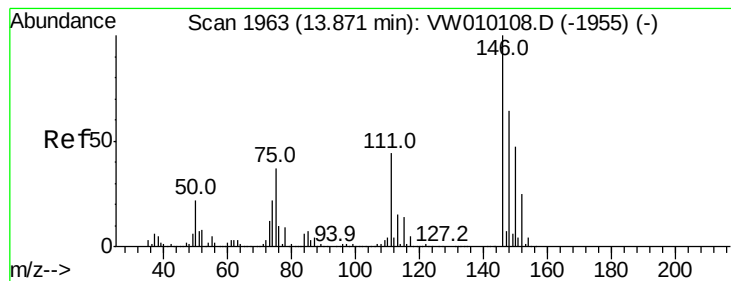
Tgt Ion:146 Resp: 1190081
 Ion Ratio Lower Upper
 146 100
 111 41.9 29.3 54.3
 148 63.7 44.1 81.9



#64
 1,4-Dichlorobenzene
 Concen: 49.312 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW010109.D
 Acq: 24 Apr 2019 11:25

Tgt Ion:146 Resp: 1196135
 Ion Ratio Lower Upper
 146 100
 111 40.6 28.0 52.0
 148 62.8 44.1 81.9





#65

1,2-Dichlorobenzene

Concen: 49.379 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD05016

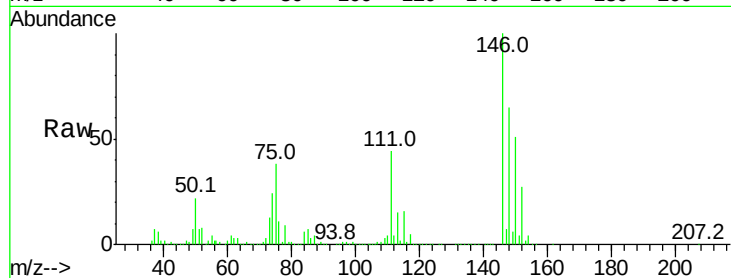
Tgt Ion:146 Resp: 1093649

Ion Ratio Lower Upper

146 100

111 43.7 35.0 52.6

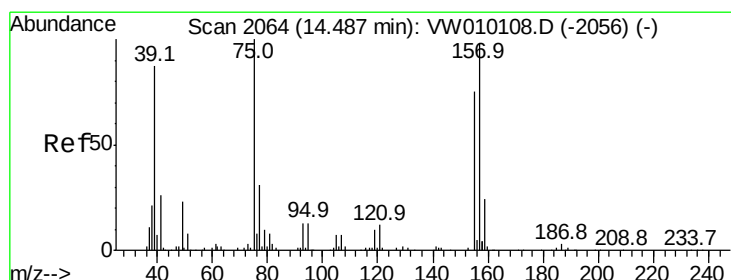
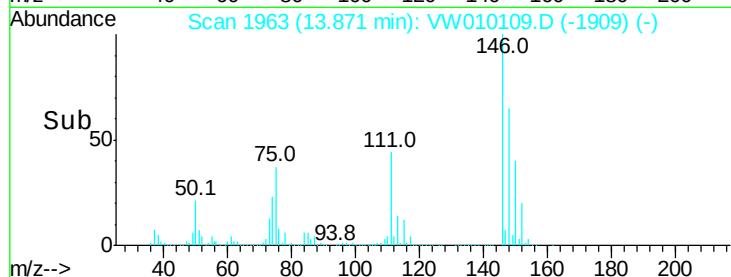
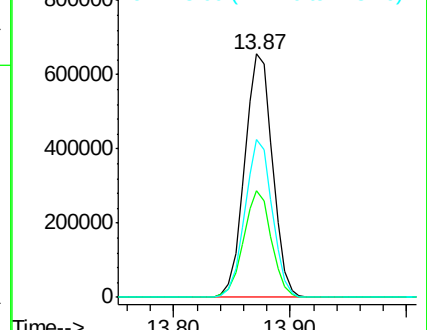
148 65.0 50.4 75.6



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: 43.218 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

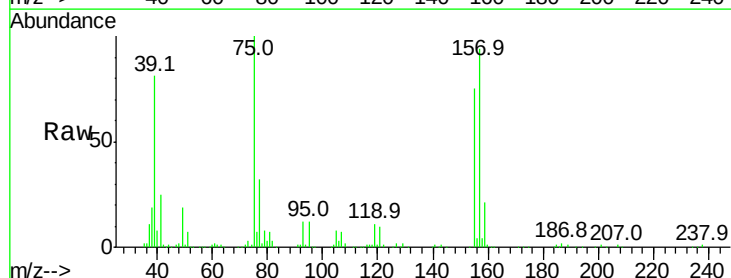
Tgt Ion: 75 Resp: 96866

Ion Ratio Lower Upper

75 100

157 93.9 73.3 109.9

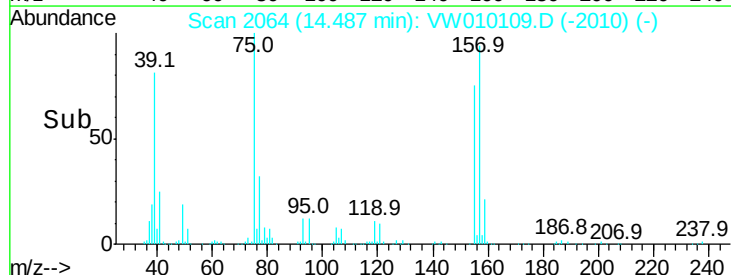
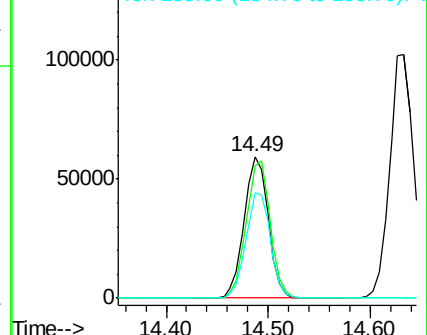
155 74.8 58.6 88.0

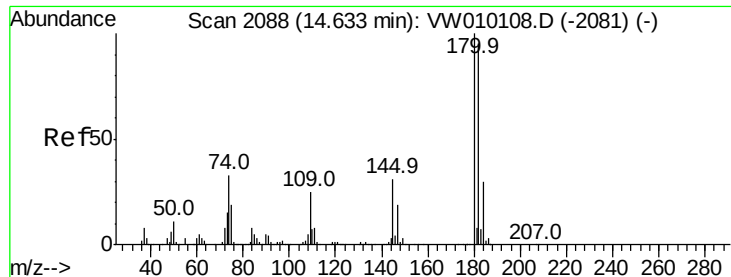


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

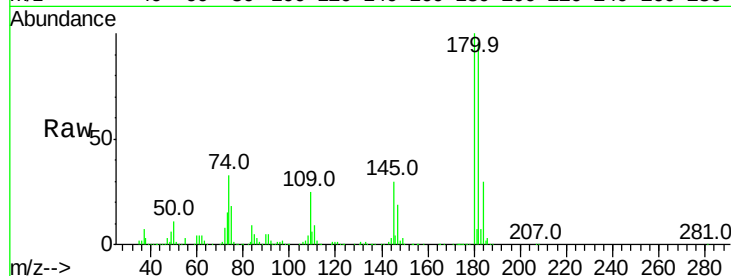




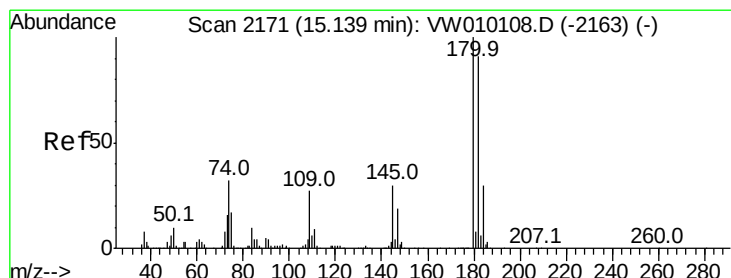
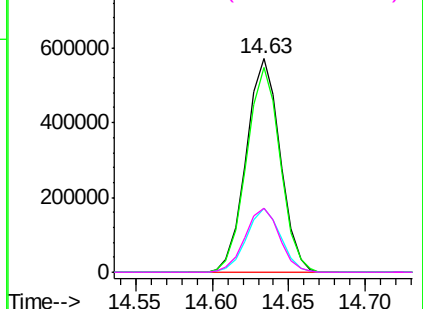
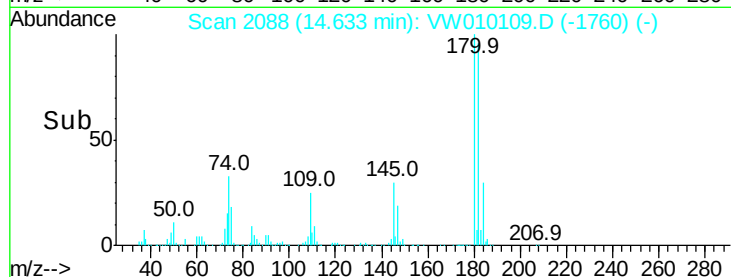
#67
 1,3,5-Trichlorobenzene
 Concen: 53.451 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW010109.D
 Acq: 24 Apr 2019 11:25

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05016

Tgt Ion:180 Resp: 883753
 Ion Ratio Lower Upper
 180 100
 182 95.2 76.8 115.2
 184 30.0 24.0 36.0
 145 30.2 24.4 36.6

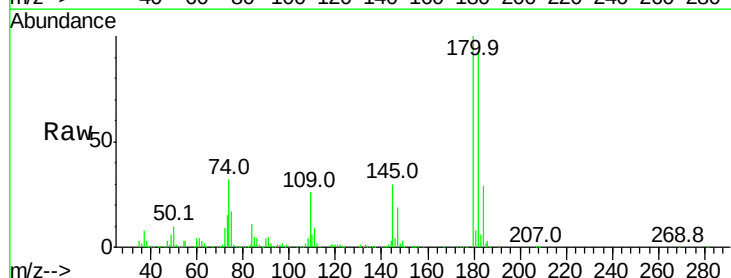


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

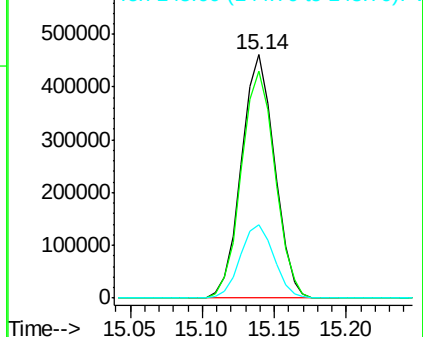
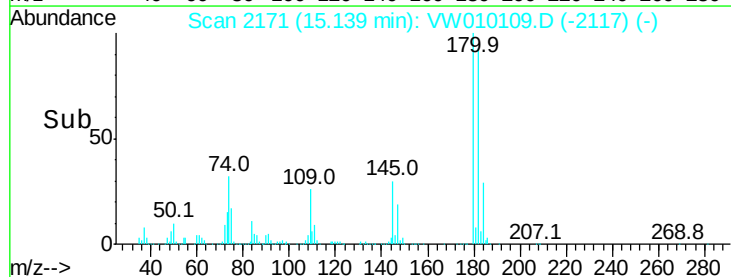


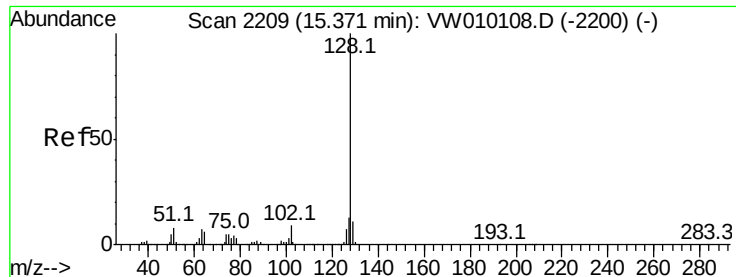
#68
 1,2,4-trichlorobenzene
 Concen: 54.389 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW010109.D
 Acq: 24 Apr 2019 11:25

Tgt Ion:180 Resp: 736676
 Ion Ratio Lower Upper
 180 100
 182 94.7 75.4 113.0
 145 30.8 25.0 37.4



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





#69

Naphthalene

Concen: 54.576 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

Instrument :

MSVOA_W

ClientSampled :

VSTD05016

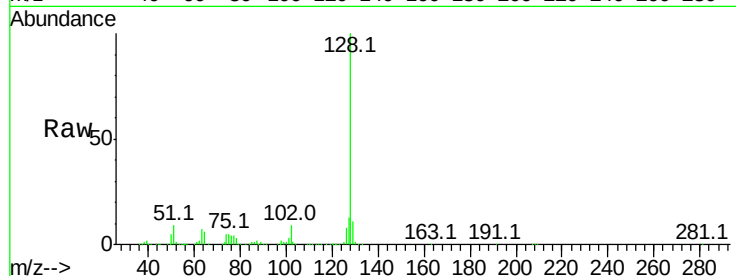
Tgt Ion:128 Resp: 1586535

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

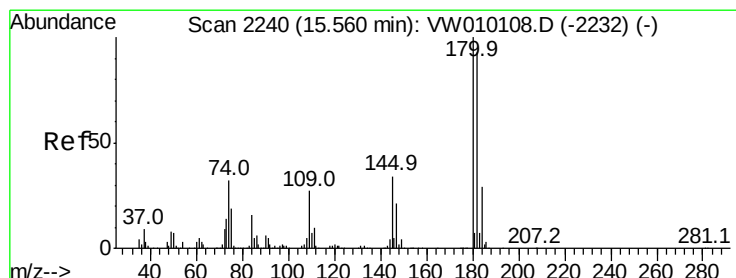
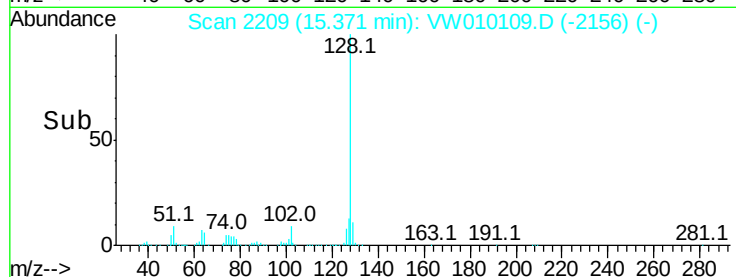
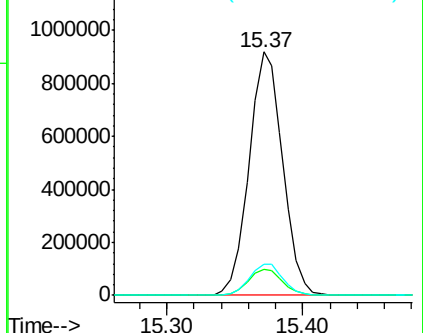
127 13.1 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 51.766 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.01 min

Lab File: VW010109.D

Acq: 24 Apr 2019 11:25

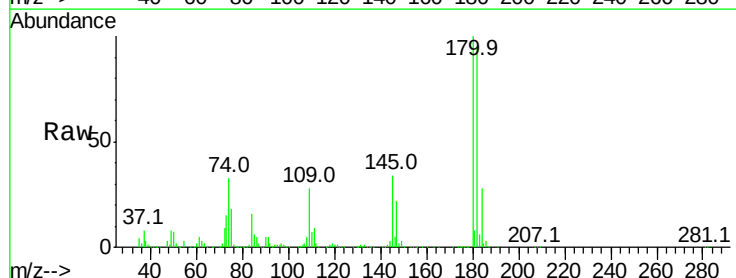
Tgt Ion:180 Resp: 668993

Ion Ratio Lower Upper

180 100

182 94.6 76.0 114.0

145 33.2 26.3 39.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

