

Data File : VW015467.D
Acq On : 26 May 2020 11:17
Operator : SY/VA
Sample : VSTD050
Misc : 5.00G/10.0mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD05006

Quant Time: May 26 12:00:22 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM052620S.M
Quant Title : VOC Analysis
QLast Update : Tue May 26 11:56:35 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	405694	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	370431	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	180662	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	169182	33.33	ug/L	0.00
7) Chloroethane-d5	2.89	69	172155	35.18	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.02	63	418804	40.57	ug/L	0.00
20) 2-Butanone-d5	7.08	46	126343	93.19	ug/L	0.00
24) Chloroform-d	7.65	84	450290	43.95	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	258143	45.45	ug/L	0.00
29) Benzene-d6	8.27	84	869539	42.90	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	268699	43.74	ug/L	0.00
37) Toluene-d8	10.32	98	853978	43.81	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	130371	46.63	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	102272	90.13	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	213965	46.25	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	289709	45.73	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	173685	48.783	ug/L	99
3) Chloromethane	2.21	50	169775	44.563	ug/L	100
5) Vinyl chloride	2.37	62	268283	45.322	ug/L	99
6) Bromomethane	2.78	94	176160	43.255	ug/L	99
8) Chloroethane	2.93	64	166758	42.147	ug/L	98
9) Trichlorofluoromethane	3.26	101	203763	47.218	ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	230066	47.849	ug/L	100
12) 1,1-Dichloroethene	4.04	96	222681	45.762	ug/L	95
13) Acetone	4.12	43	94370	91.919	ug/L	99
14) Carbon disulfide	4.38	76	744431	49.252	ug/L	100
15) Methyl Acetate	4.67	43	101928	45.392	ug/L	99
16) Methylene chloride	4.92	84	227426	39.142	ug/L	95
17) Methyl tert-butyl Ether	5.43	73	365411	46.190	ug/L	99
18) trans-1,2-Dichloroethene	5.43	96	245779	46.868	ug/L	97
19) 1,1-Dichloroethane	6.21	63	440805	44.631	ug/L	100
21) 2-Butanone	7.17	43	137028	88.776	ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	257572	45.573	ug/L	99
23) Bromochloromethane	7.52	128	111761	47.444	ug/L	97
25) Chloroform	7.68	83	444931	45.566	ug/L	100
27) 1,2-Dichloroethane	8.40	62	307351	46.259	ug/L	99
30) Cyclohexane	7.96	56	427738	44.144	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	387120	46.566	ug/L	100
32) Carbon tetrachloride	8.07	117	358076	47.331	ug/L	100
34) Benzene	8.32	78	978742	45.162	ug/L	100
35) Trichloroethene	9.09	95	260830	44.912	ug/L	99
36) Methylcyclohexane	9.34	83	469571	45.537	ug/L	100
40) 1,2-Dichloropropane	9.37	63	241463	44.583	ug/L	99
41) Bromodichloromethane	9.65	83	329869	46.141	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	404587	46.260	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	301676	83.136	ug/L	100

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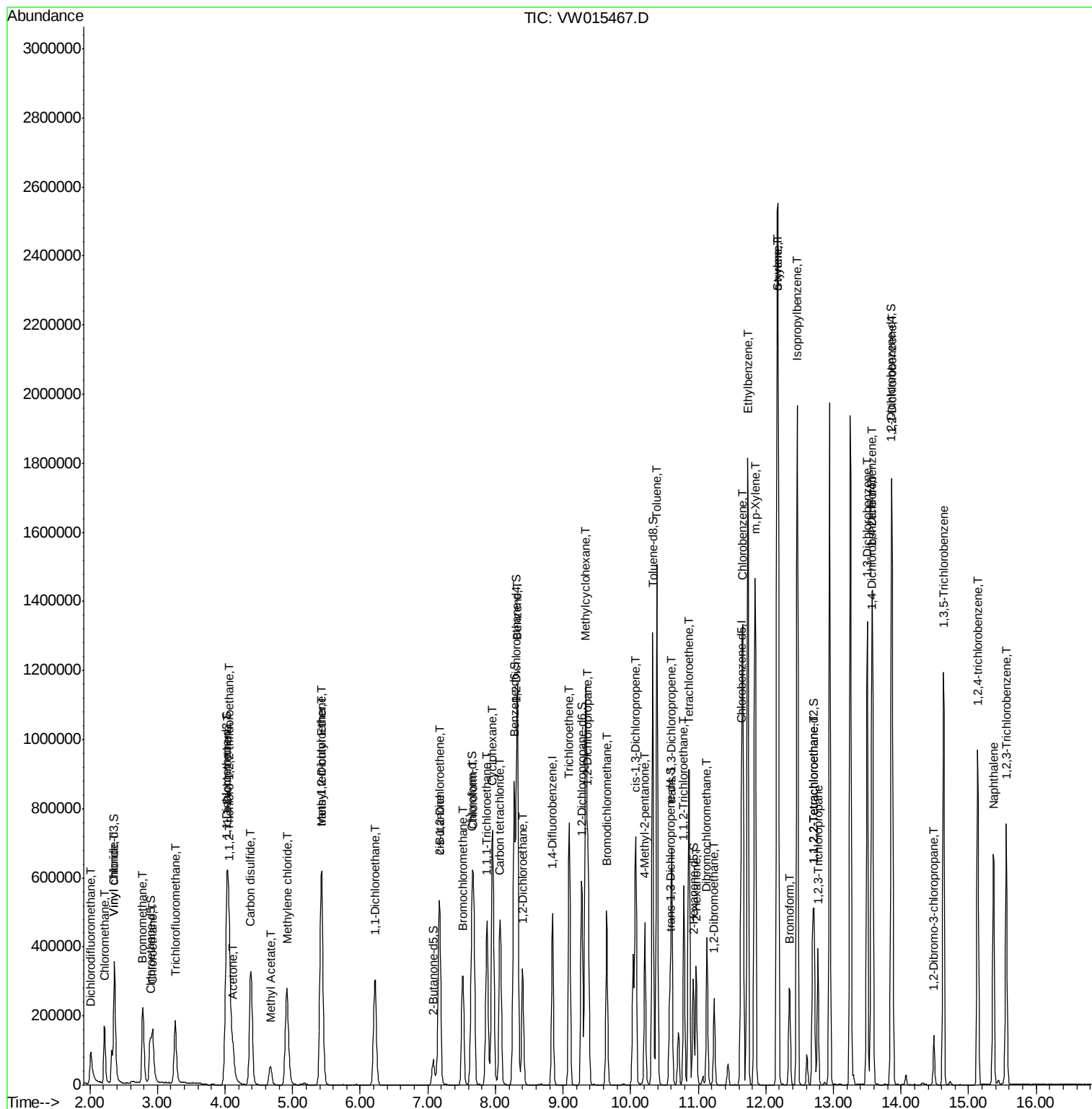
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.39	91	1075349	45.401	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	357807	46.944	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	177288	46.691	ug/L	98
47) Tetrachloroethene	10.87	164	204814	47.011	ug/L	98
49) 2-Hexanone	10.97	43	210675	92.144	ug/L	100
50) Dibromochloromethane	11.13	129	218201	47.502	ug/L	98
51) 1,2-Dibromoethane	11.24	107	169269	46.714	ug/L	94
52) Chlorobenzene	11.66	112	670477	44.869	ug/L	99
53) Ethylbenzene	11.73	91	1242826	44.991	ug/L	100
54) m,p-Xylene	11.84	106	470951	45.635	ug/L	99
55) o-xylene	12.16	106	450966	45.423	ug/L	100
56) Styrene	12.18	104	790126	46.612	ug/L	99
57) Isopropylbenzene	12.46	105	1247199	45.476	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	208313	46.120	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	158205	46.116	ug/L	99
62) Bromoform	12.35	173	129309	48.462	ug/L	97
63) 1,3-Dichlorobenzene	13.50	146	526263	45.810	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	508937	44.500	ug/L	96
65) 1,2-Dichlorobenzene	13.87	146	458653	45.386	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.49	75	36722	45.083	ug/L	92
67) 1,3,5-Trichlorobenzene	14.63	180	356517	45.135	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	291829	44.744	ug/L	99
69) Naphthalene	15.36	128	571788	46.716	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	253938	45.191	ug/L	99

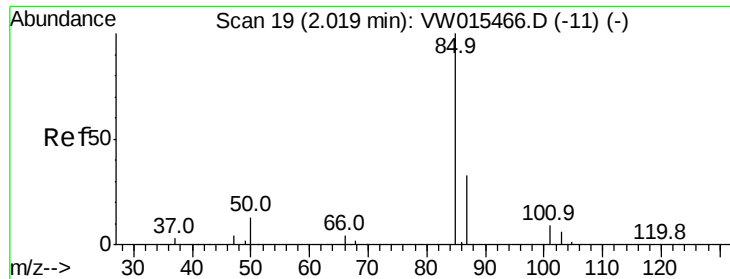
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 48.783 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.01 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampleId :

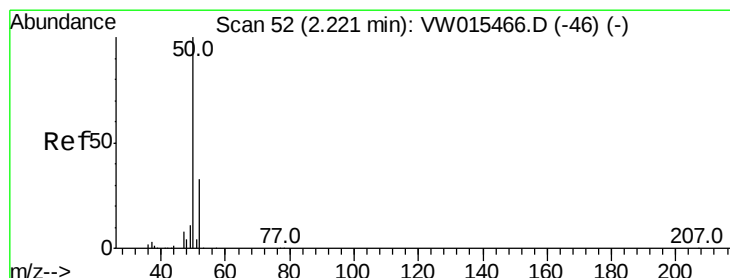
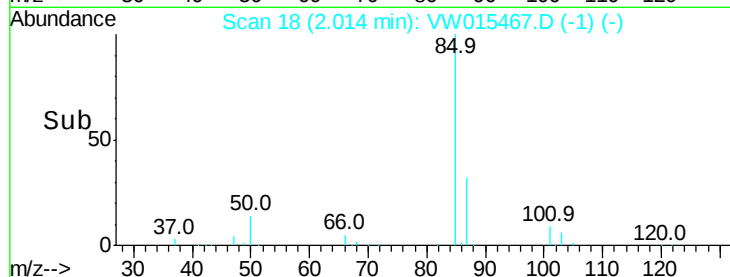
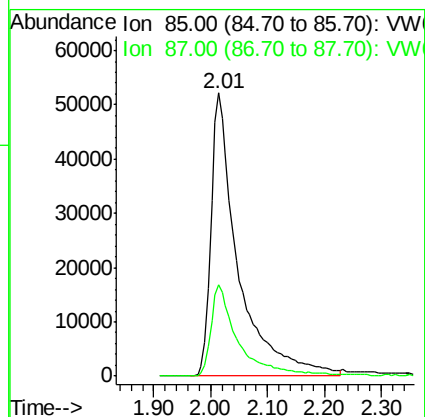
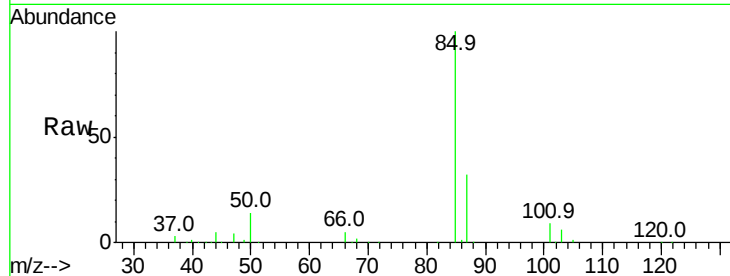
VSTD05006

Tgt Ion: 85 Resp: 173685

Ion Ratio Lower Upper

85 100

87 30.8 21.1 39.1



#3

Chloromethane

Concen: 44.563 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW015467.D

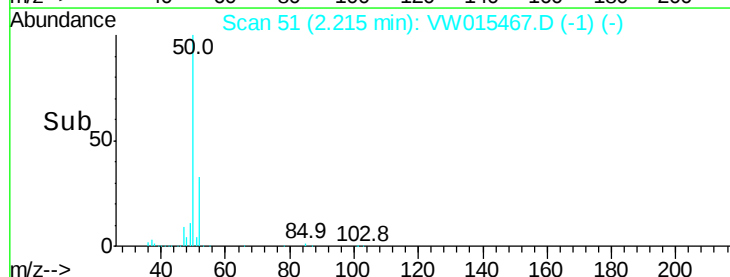
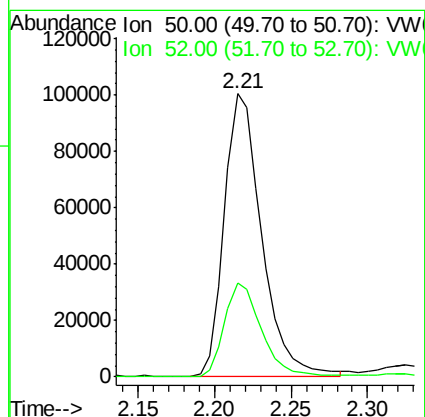
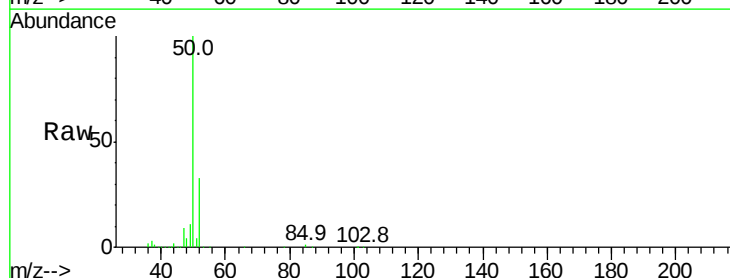
Acq: 26 May 2020 11:17

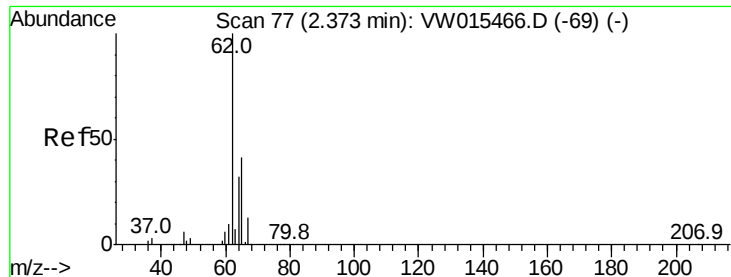
Tgt Ion: 50 Resp: 169775

Ion Ratio Lower Upper

50 100

52 33.1 23.3 43.3





#5

Vinyl chloride

Concen: 45.322 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.01 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampleId :

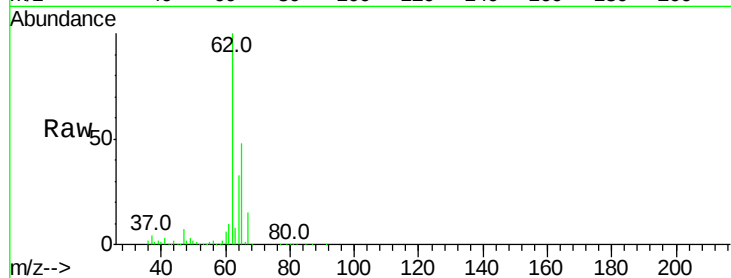
VSTD05006

Tgt Ion: 62 Resp: 268283

Ion Ratio Lower Upper

62 100

64 32.8 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW

2.37

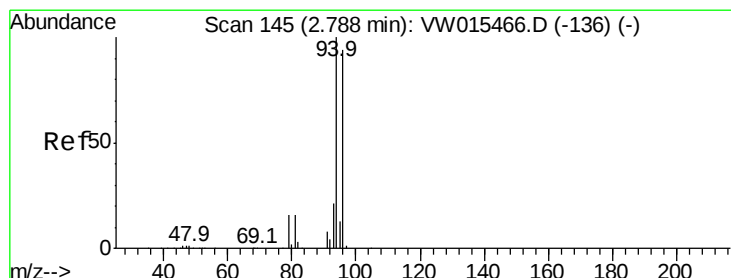
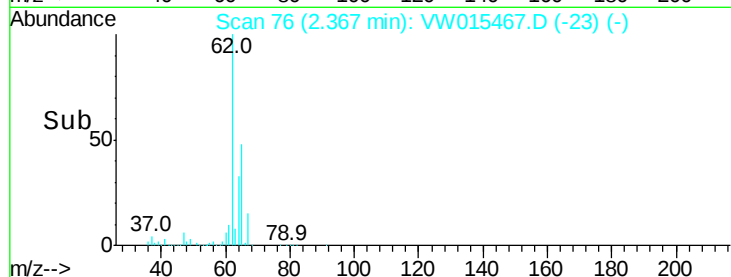
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 43.255 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.01 min

Lab File: VW015467.D

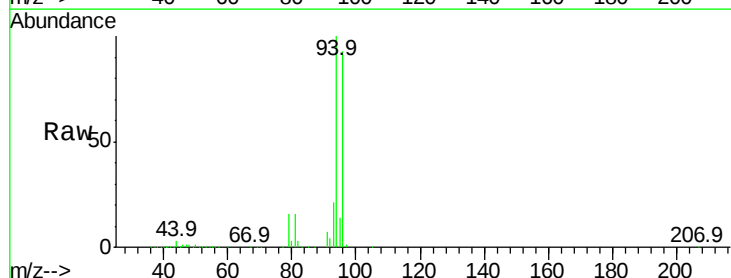
Acq: 26 May 2020 11:17

Tgt Ion: 94 Resp: 176160

Ion Ratio Lower Upper

94 100

96 92.7 9.3 177.5



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW

2.78

80000

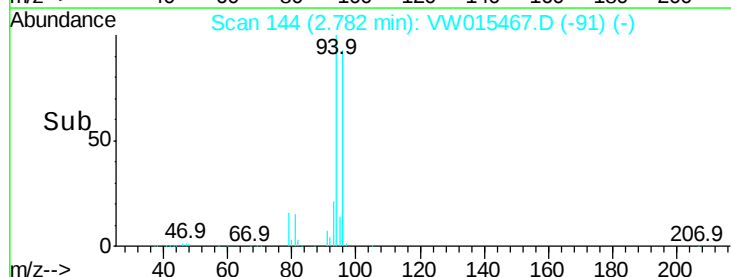
60000

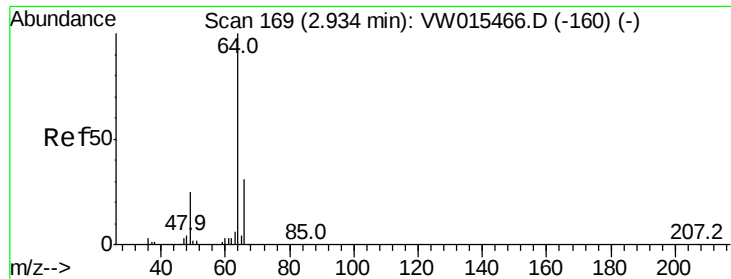
40000

20000

0

Time-->





#8

Chloroethane

Concen: 42.147 ug/L

RT: 2.93 min Scan# 168

Delta R.T. -0.01 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampleId :

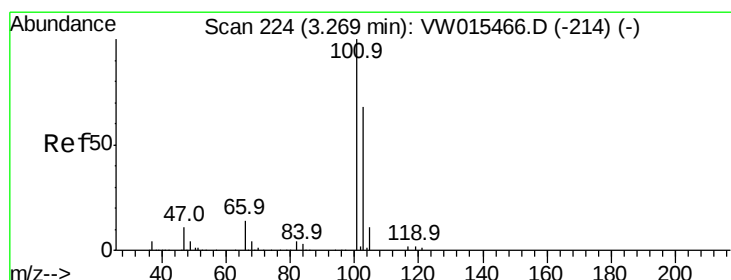
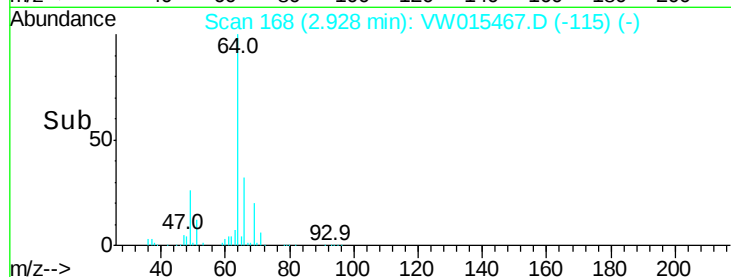
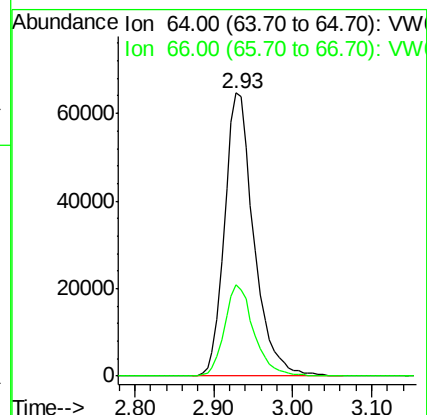
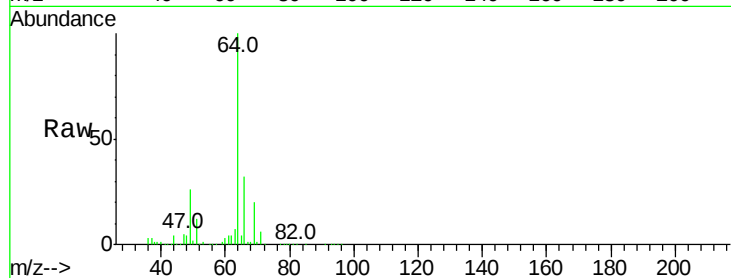
VSTD05006

Tgt Ion: 64 Resp: 166758

Ion Ratio Lower Upper

64 100

66 32.3 22.0 40.8



#9

Trichlorofluoromethane

Concen: 47.218 ug/L

RT: 3.26 min Scan# 223

Delta R.T. -0.01 min

Lab File: VW015467.D

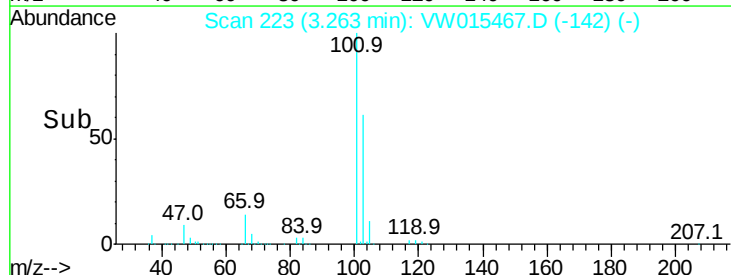
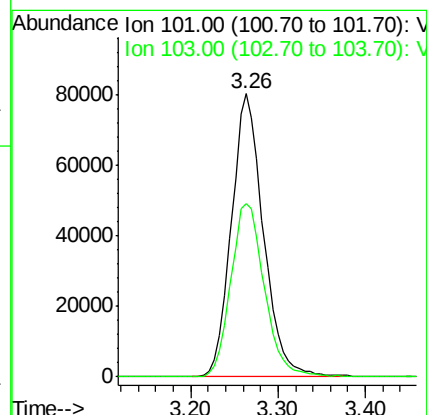
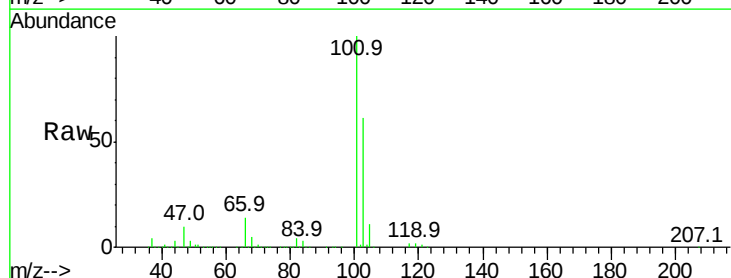
Acq: 26 May 2020 11:17

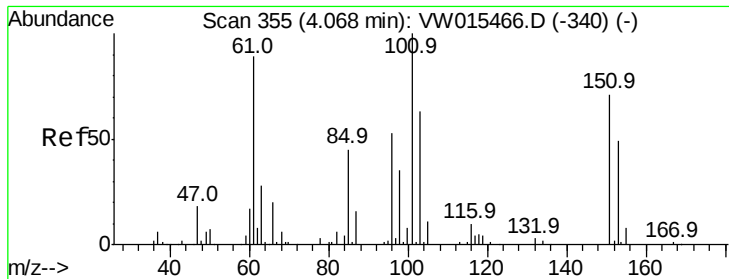
Tgt Ion: 101 Resp: 203763

Ion Ratio Lower Upper

101 100

103 64.1 46.6 86.6





#11

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

Concen: 47.849 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampleId :

VSTD05006

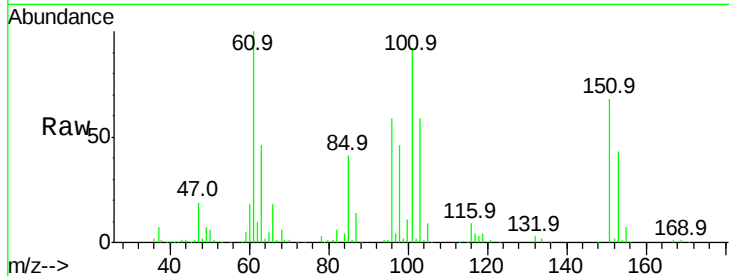
Tgt Ion:101 Resp: 230066

Ion Ratio Lower Upper

101 100

85 44.1 35.1 52.7

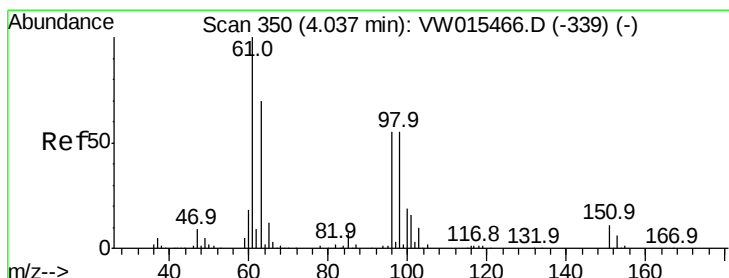
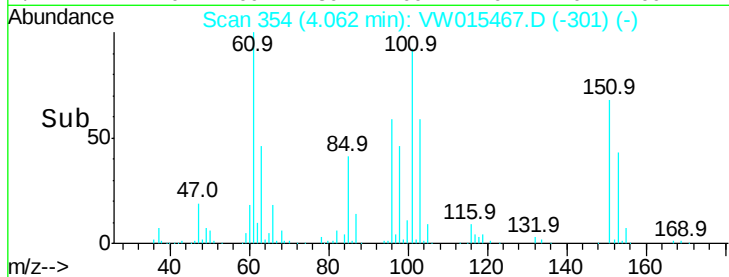
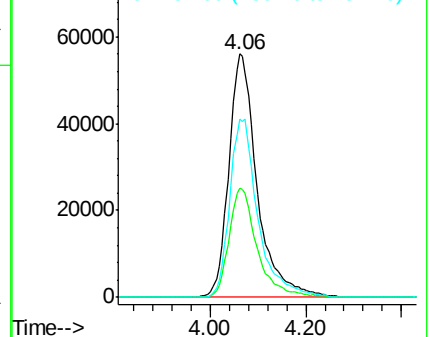
151 73.2 58.6 87.8



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: 45.762 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

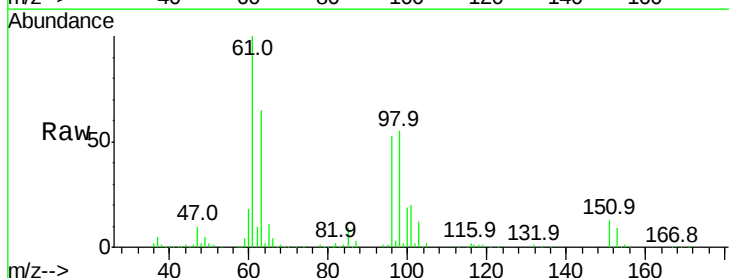
Tgt Ion: 96 Resp: 222681

Ion Ratio Lower Upper

96 100

61 186.9 127.7 237.1

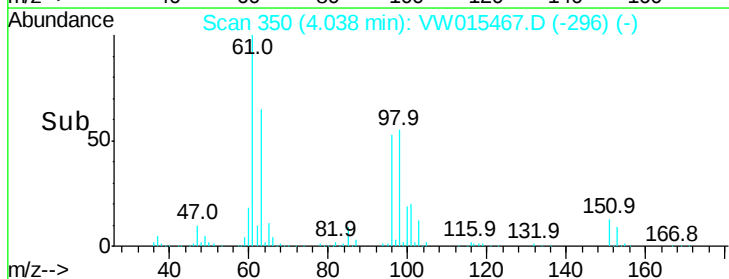
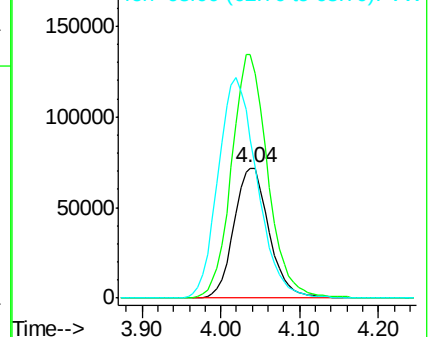
63 121.8 92.3 171.5

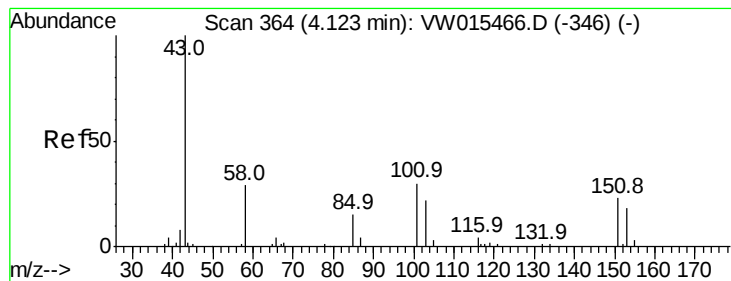


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 91.919 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

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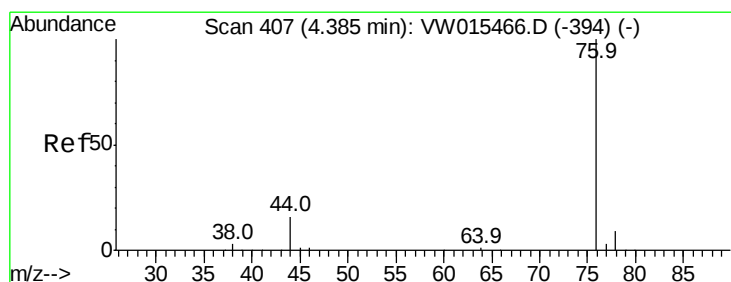
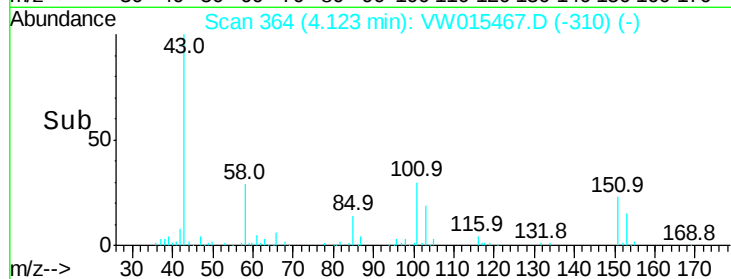
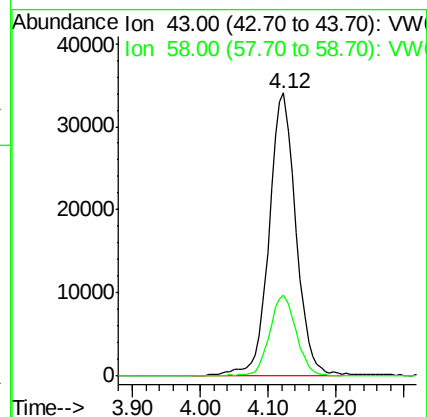
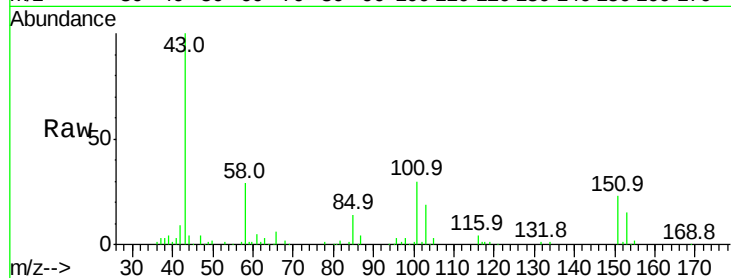
VSTD05006

Tgt Ion: 43 Resp: 94370

Ion Ratio Lower Upper

43 100

58 27.8 0.0 56.8



#14

Carbon disulfide

Concen: 49.252 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW015467.D

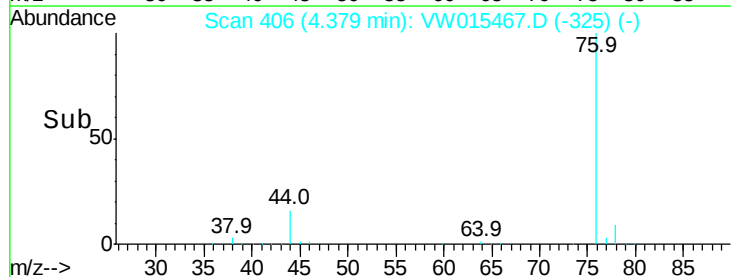
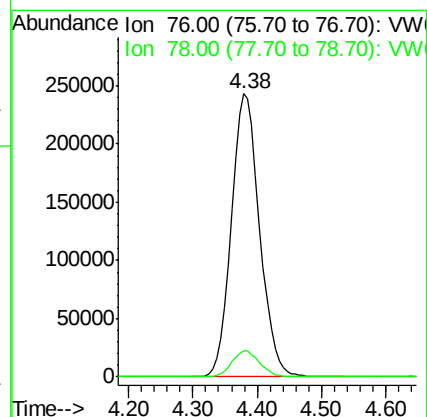
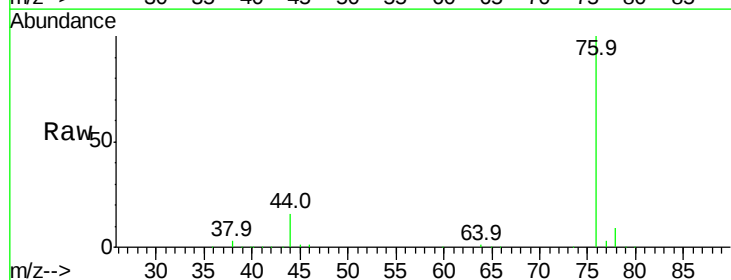
Acq: 26 May 2020 11:17

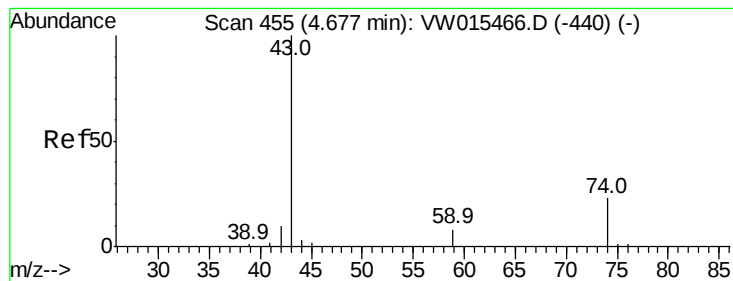
Tgt Ion: 76 Resp: 744431

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9





#15

Methyl Acetate

Concen: 45.392 ug/L

RT: 4.67 min Scan# 454

Delta R.T. -0.01 min

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Acq: 26 May 2020 11:17

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ClientSampleId :

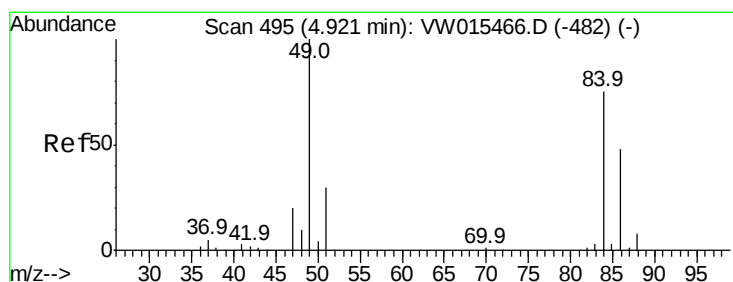
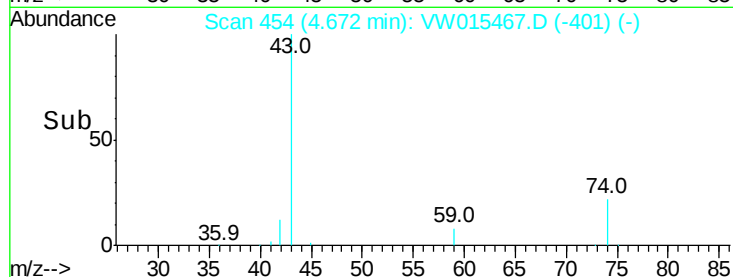
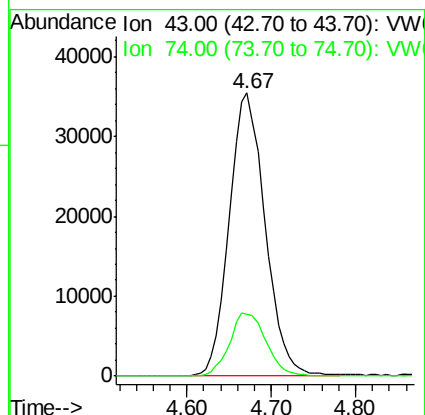
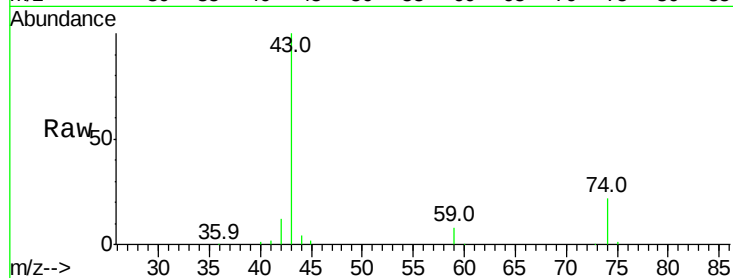
VSTD05006

Tgt Ion: 43 Resp: 101928

Ion Ratio Lower Upper

43 100

74 23.0 18.2 27.2



#16

Methylene chloride

Concen: 39.142 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

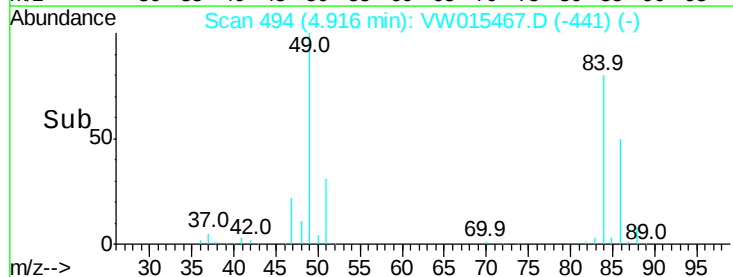
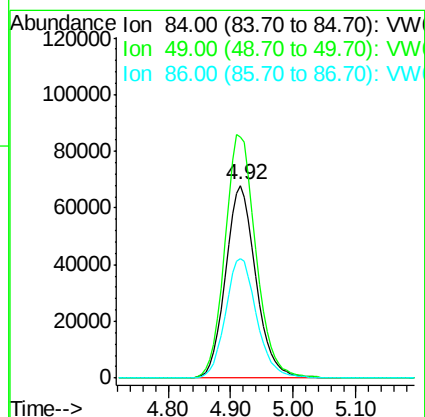
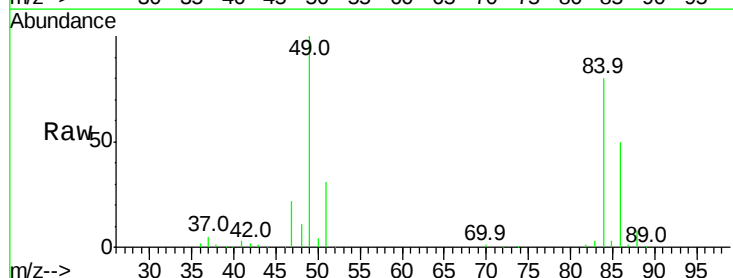
Tgt Ion: 84 Resp: 227426

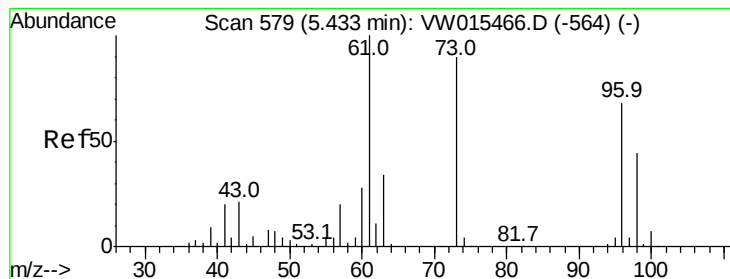
Ion Ratio Lower Upper

84 100

49 125.0 93.0 172.8

86 62.1 44.7 83.1





#17

Methyl tert-butyl Ether

Concen: 46.190 ug/L

RT: 5.43 min Scan# 578

Delta R.T. -0.01 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampled :

VSTD05006

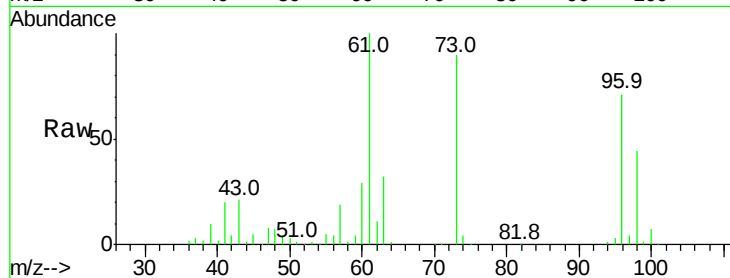
Tgt Ion: 73 Resp: 365411

Ion Ratio Lower Upper

73 100

43 24.1 19.6 29.4

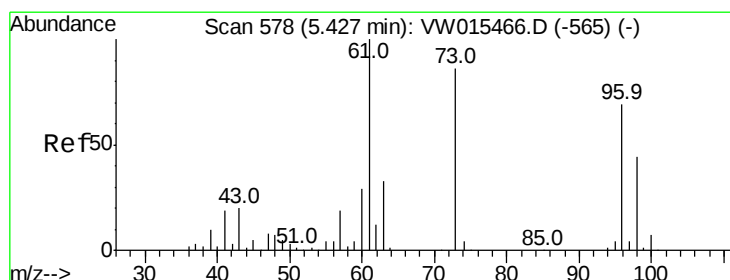
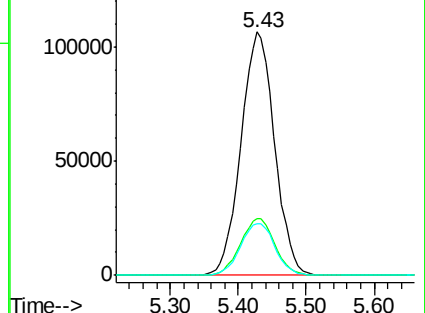
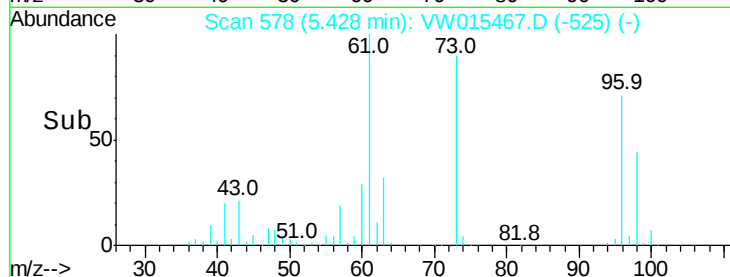
57 22.0 17.7 26.5



Abundance Ion 73.00 (72.70 to 73.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 57.00 (56.70 to 57.70): VW



#18

trans-1,2-Dichloroethene

Concen: 46.868 ug/L

RT: 5.43 min Scan# 578

Delta R.T. 0.00 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

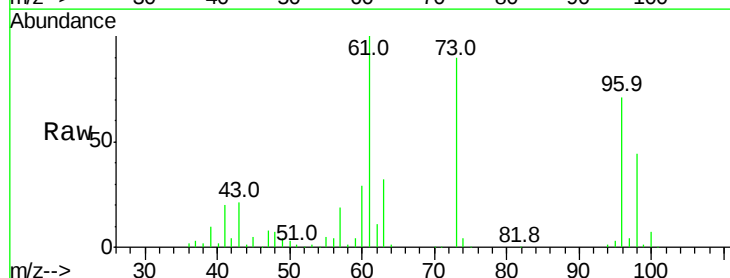
Tgt Ion: 96 Resp: 245779

Ion Ratio Lower Upper

96 100

61 140.7 101.9 189.3

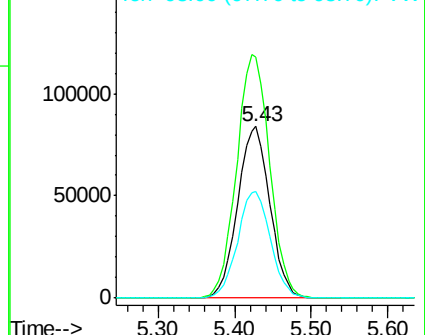
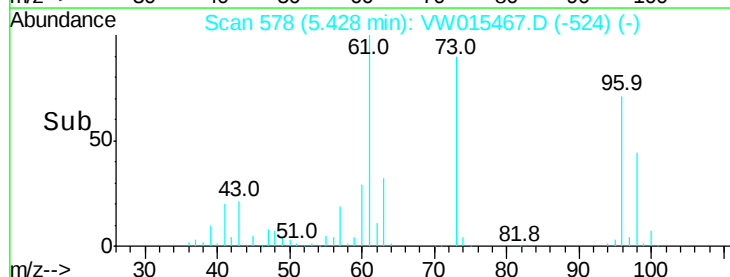
98 62.3 44.9 83.5

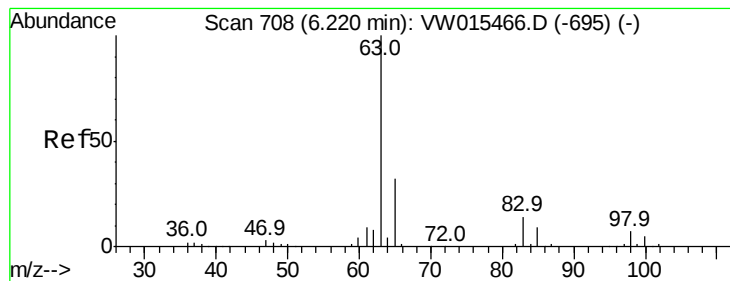


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW





#19

1,1-Dichloroethane

Concen: 44.631 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.01 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampleId :

VSTD05006

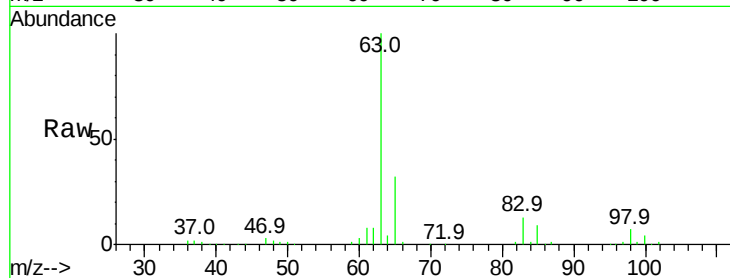
Tgt Ion: 63 Resp: 440805

Ion Ratio Lower Upper

63 100

65 31.5 22.1 41.1

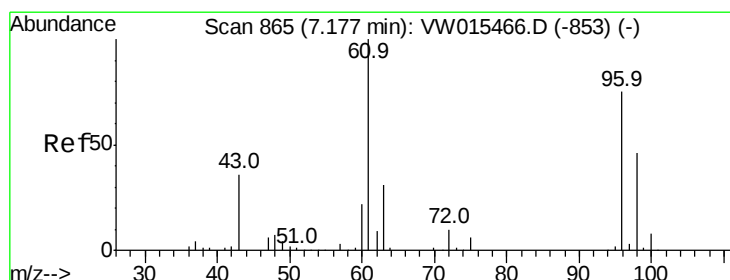
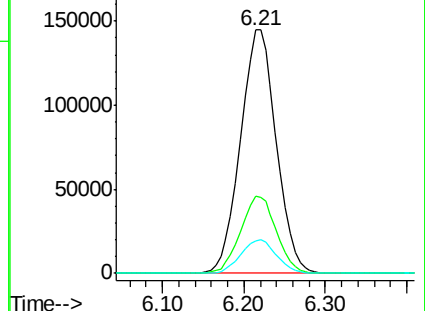
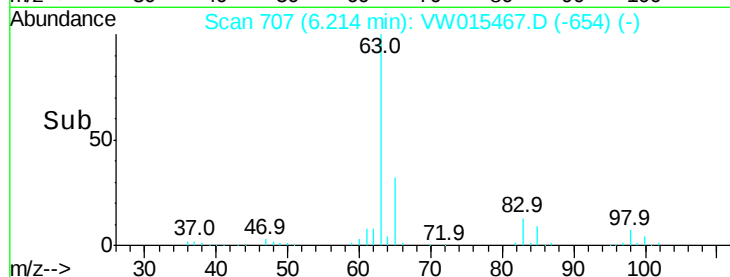
83 13.3 9.7 17.9



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 88.776 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.01 min

Lab File: VW015467.D

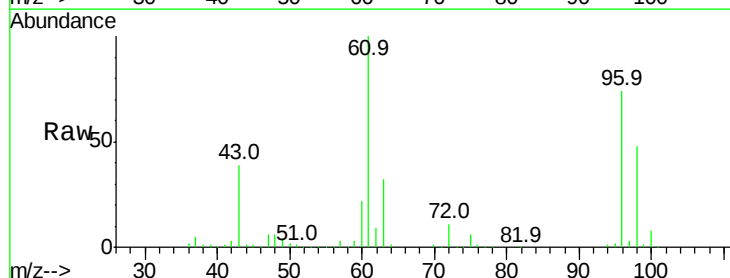
Acq: 26 May 2020 11:17

Tgt Ion: 43 Resp: 137028

Ion Ratio Lower Upper

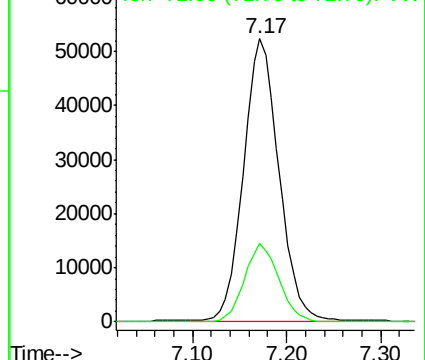
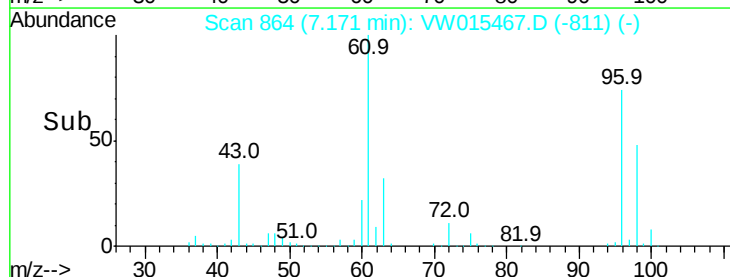
43 100

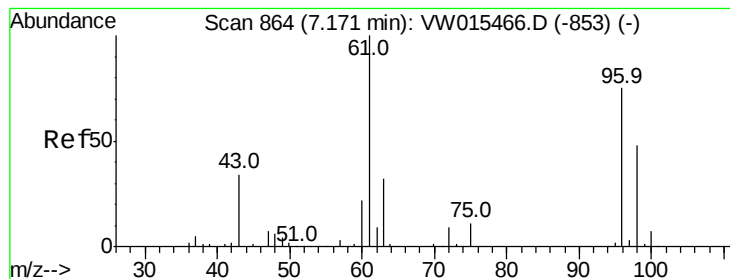
72 27.2 13.3 39.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



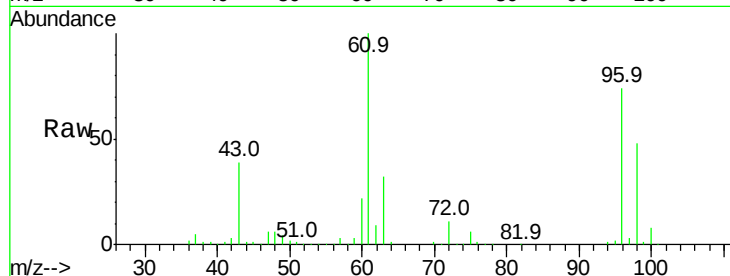


#22

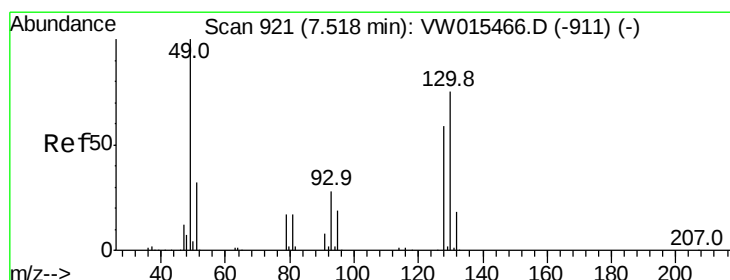
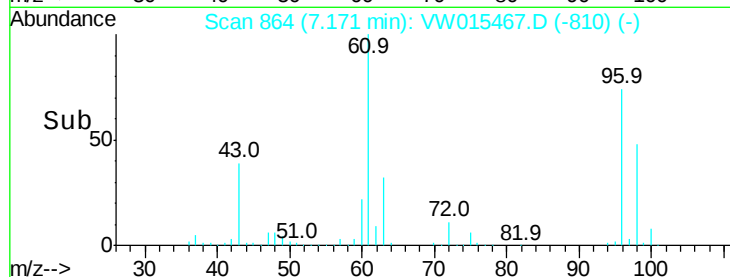
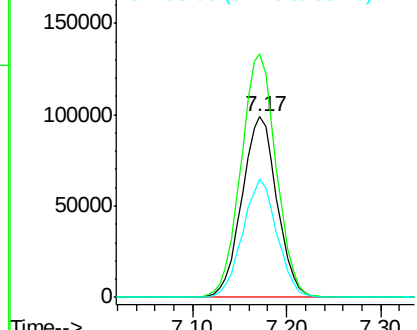
cis-1,2-Dichloroethene
Concen: 45.573 ug/L
RT: 7.17 min Scan# 864
Delta R.T. 0.00 min
Lab File: VW015467.D
Acq: 26 May 2020 11:17

Instrument :
MSVOA_W
ClientSampleId :
VSTD05006

Tgt Ion: 96 Resp: 257572
Ion Ratio Lower Upper
96 100
61 134.9 93.7 173.9
98 65.3 45.1 83.9



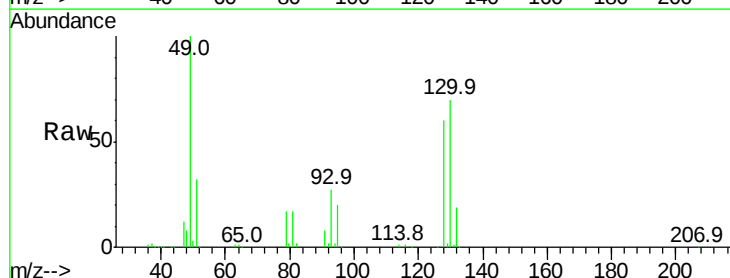
Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW



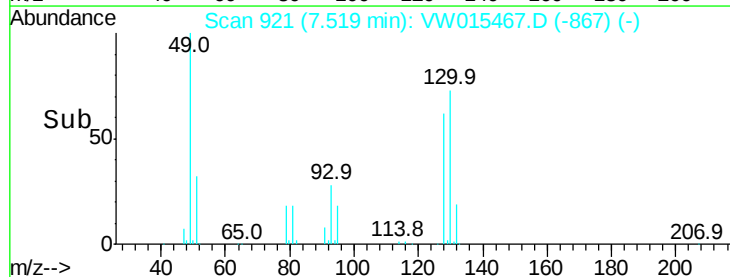
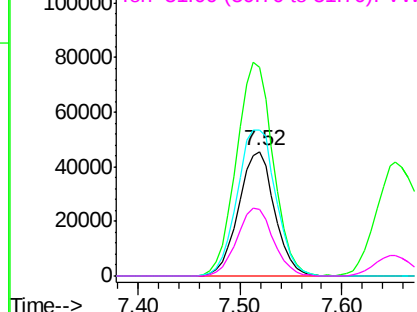
#23

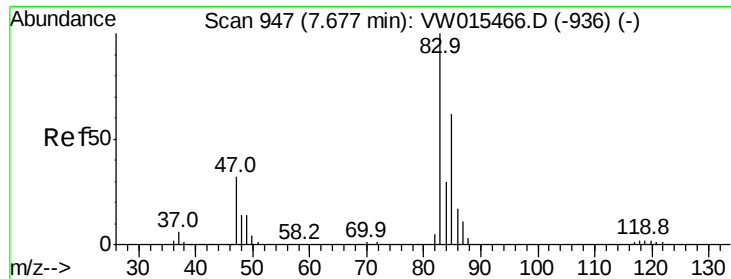
Bromochloromethane
Concen: 47.444 ug/L
RT: 7.52 min Scan# 921
Delta R.T. 0.00 min
Lab File: VW015467.D
Acq: 26 May 2020 11:17

Tgt Ion: 128 Resp: 111761
Ion Ratio Lower Upper
128 100
49 167.6 118.1 219.3
130 117.3 88.5 164.3
51 53.0 42.8 64.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VW
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VW

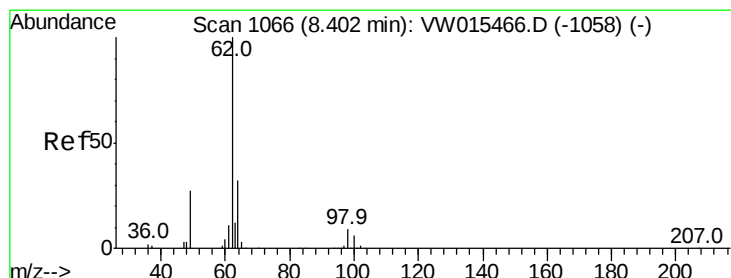
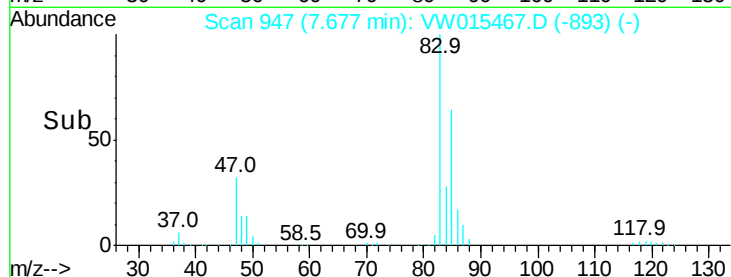
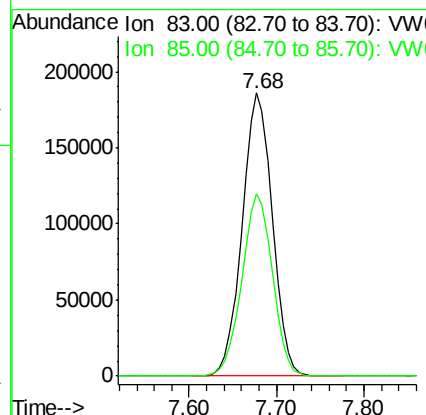
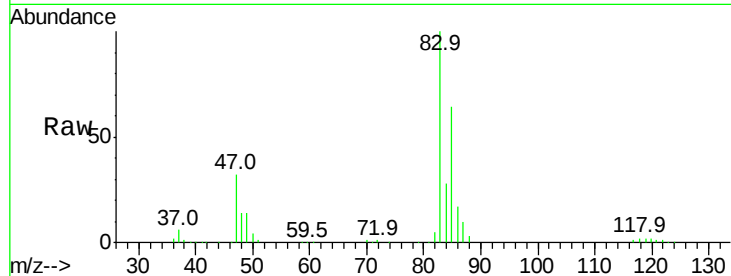




#25
Chloroform
Concen: 45.566 ug/L
RT: 7.68 min Scan# 947
Delta R.T. 0.00 min
Lab File: VW015467.D
Acq: 26 May 2020 11:17

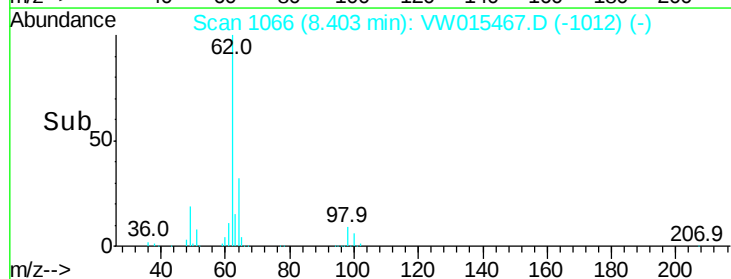
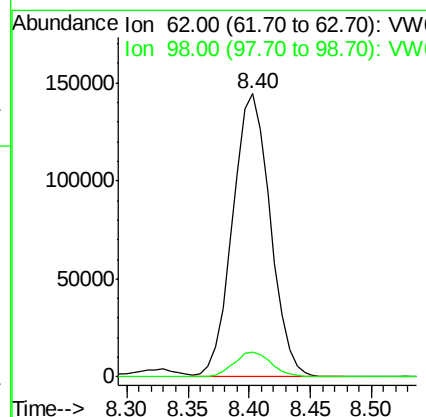
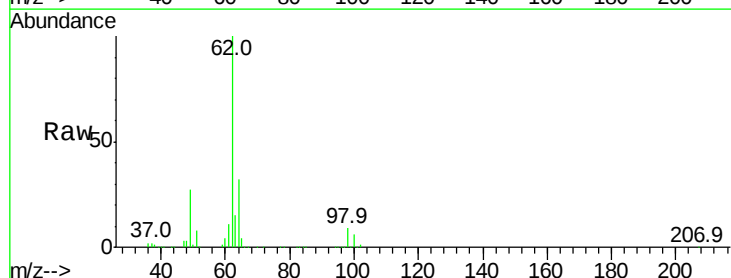
Instrument :
MSVOA_W
ClientSampleId :
VSTD05006

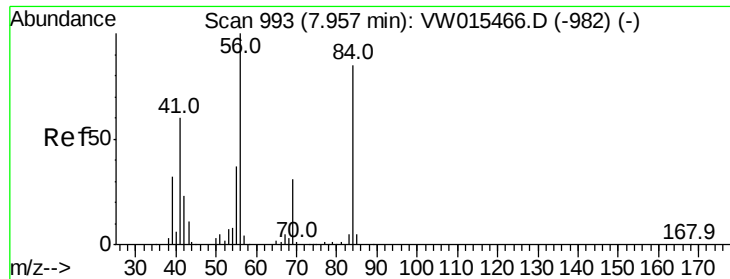
Tgt Ion: 83 Resp: 444931
Ion Ratio Lower Upper
83 100
85 65.4 45.7 84.9



#27
1,2-Dichloroethane
Concen: 46.259 ug/L
RT: 8.40 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VW015467.D
Acq: 26 May 2020 11:17

Tgt Ion: 62 Resp: 307351
Ion Ratio Lower Upper
62 100
98 9.0 7.0 10.4

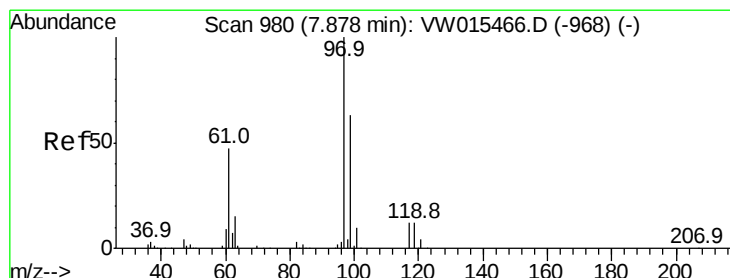
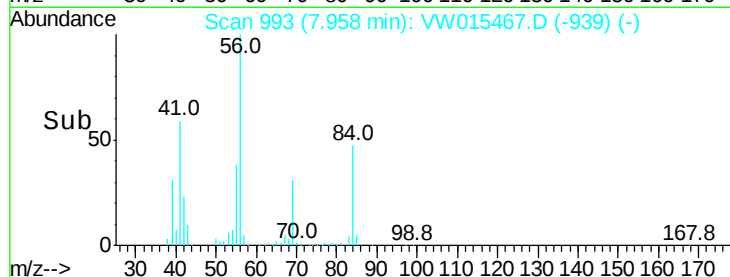
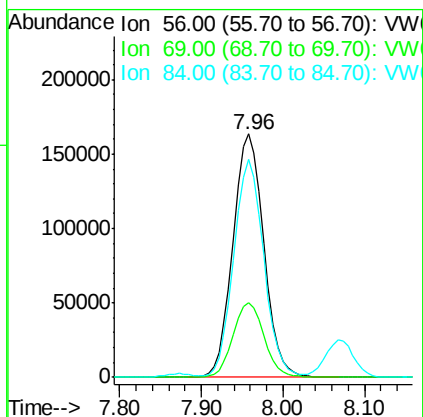
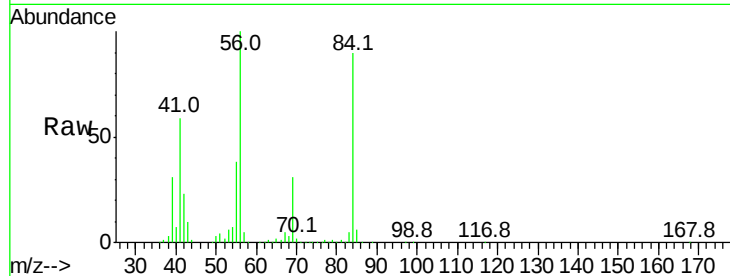




#30
Cyclohexane
Concen: 44.144 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.00 min
Lab File: VW015467.D
Acq: 26 May 2020 11:17

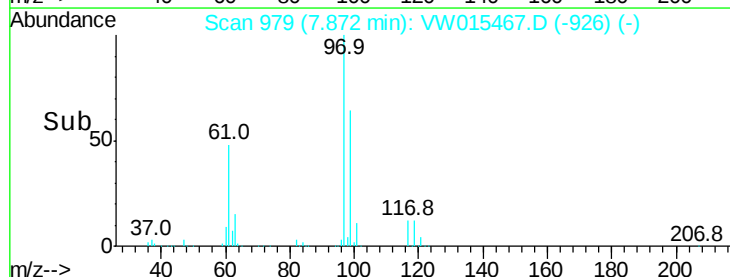
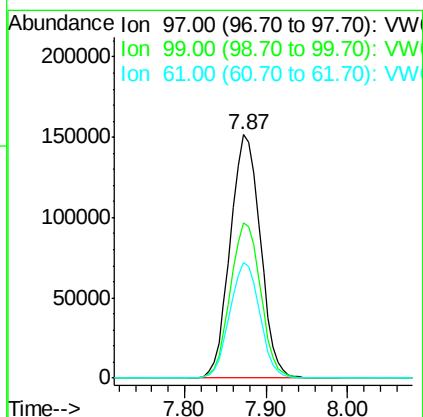
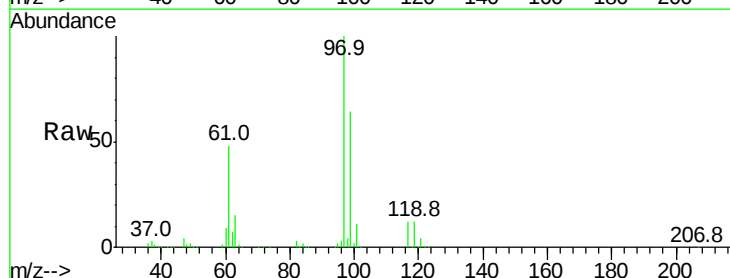
Instrument :
MSVOA_W
ClientSampleId :
VSTD05006

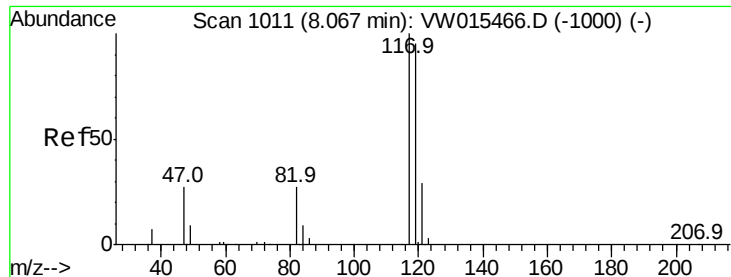
Tgt Ion: 56 Resp: 427738
Ion Ratio Lower Upper
56 100
69 30.7 24.6 37.0
84 87.5 69.6 104.4



#31
1,1,1-Trichloroethane
Concen: 46.566 ug/L
RT: 7.87 min Scan# 979
Delta R.T. -0.01 min
Lab File: VW015467.D
Acq: 26 May 2020 11:17

Tgt Ion: 97 Resp: 387120
Ion Ratio Lower Upper
97 100
99 64.0 51.4 77.0
61 47.2 38.1 57.1





#32

Carbon tetrachloride

Concen: 47.331 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampleId :

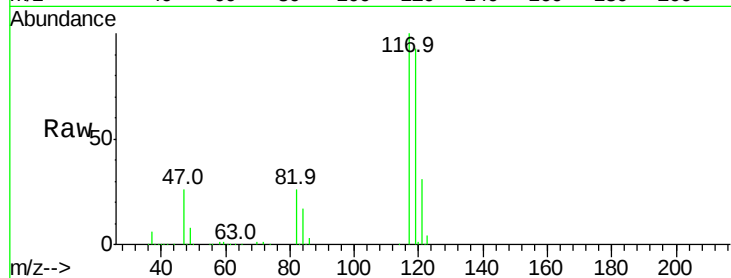
VSTD05006

Tgt Ion:117 Resp: 358076

Ion Ratio Lower Upper

117 100

119 95.6 76.4 114.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

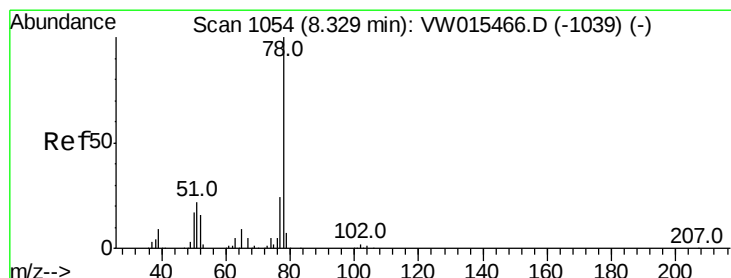
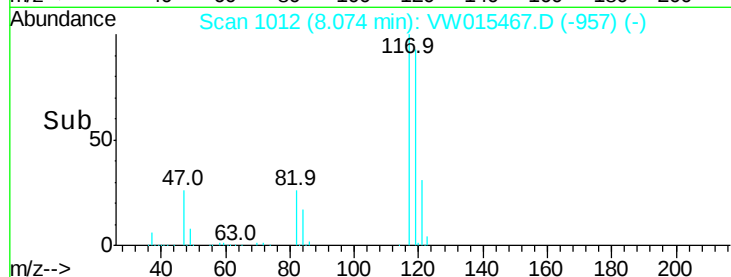
150000

100000

50000

0

Time-->



#34

Benzene

Concen: 45.162 ug/L

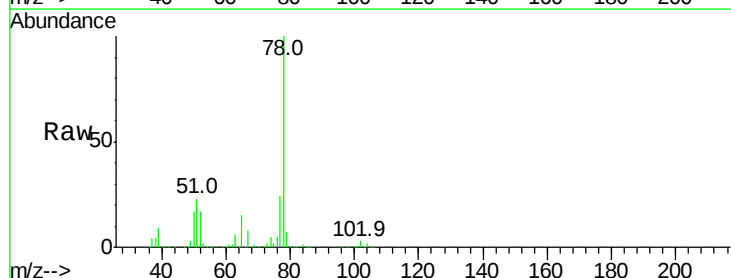
RT: 8.32 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Tgt Ion: 78 Resp: 978742



Abundance Ion 78.00 (77.70 to 78.70): VW

500000

400000

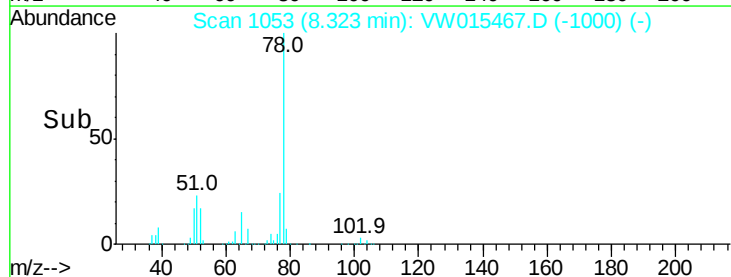
300000

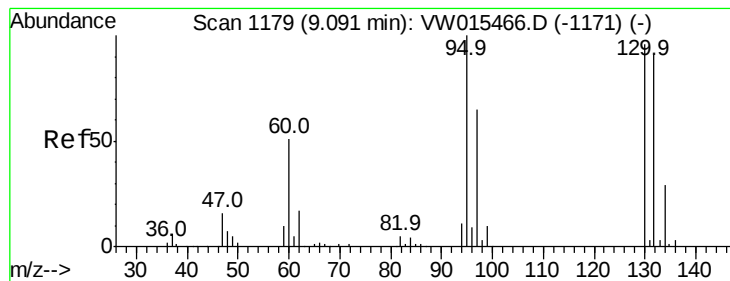
200000

100000

0

Time-->





#35

Trichloroethene

Concen: 44.912 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampleId :

VSTD05006

Tgt Ion: 95 Resp: 260830

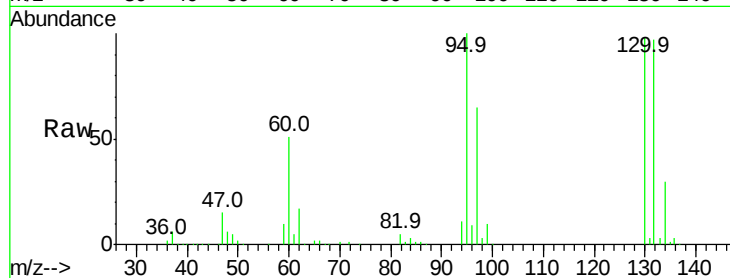
Ion Ratio Lower Upper

95 100

97 64.8 45.4 84.2

132 95.1 67.1 124.7

130 100.1 69.4 128.8



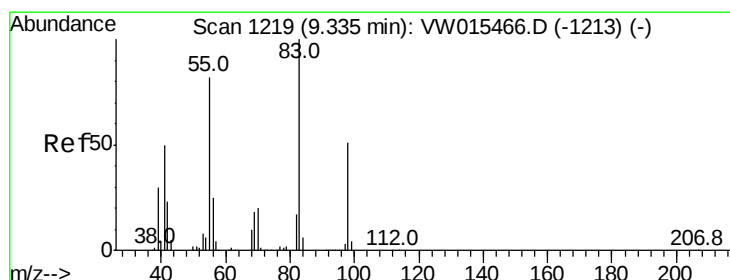
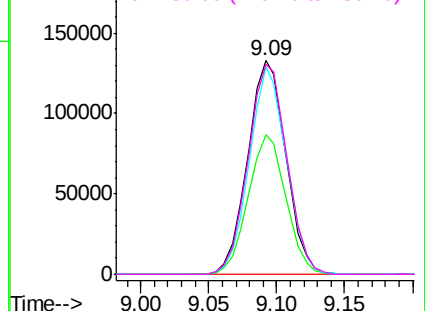
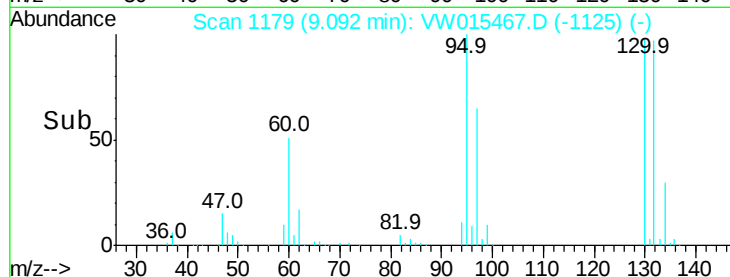
Abundance

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: 45.537 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

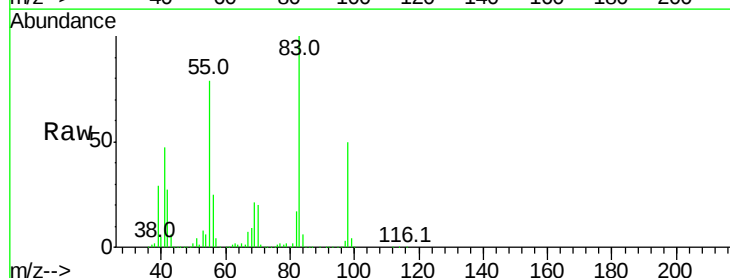
Tgt Ion: 83 Resp: 469571

Ion Ratio Lower Upper

83 100

55 78.2 62.8 94.2

98 49.1 39.2 58.8

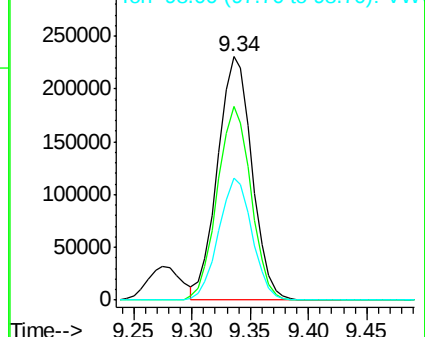
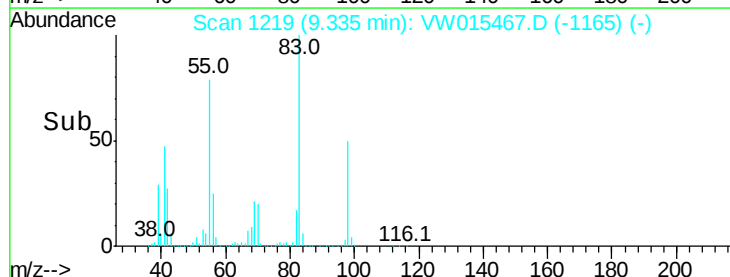


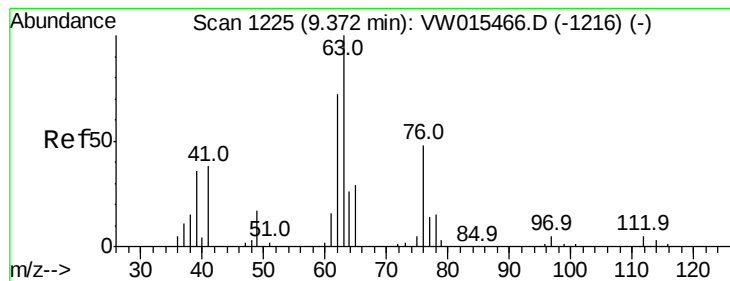
Abundance

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: 44.583 ug/L

RT: 9.37 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampled :

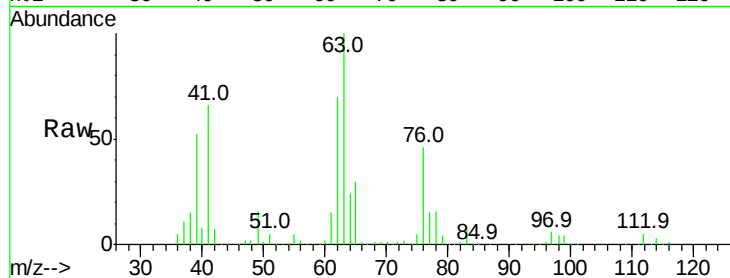
VSTD05006

Tgt Ion: 63 Resp: 241463

Ion Ratio Lower Upper

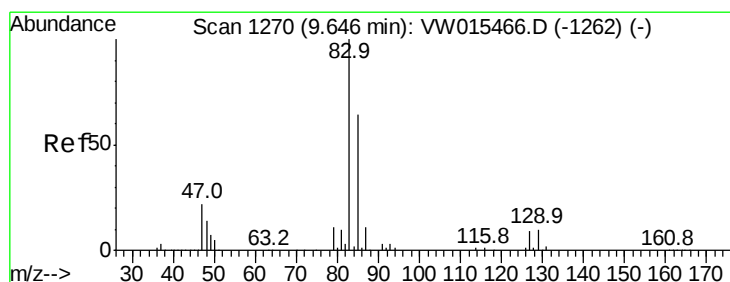
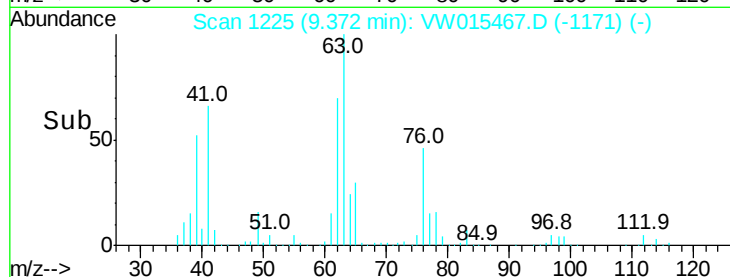
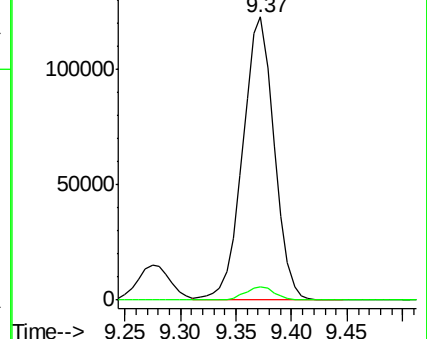
63 100

112 4.6 3.8 5.8



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 46.141 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

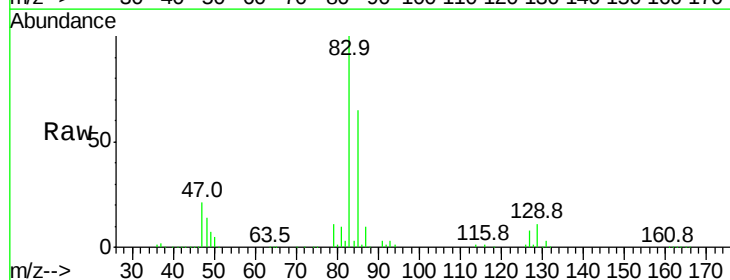
Tgt Ion: 83 Resp: 329869

Ion Ratio Lower Upper

83 100

85 64.5 44.8 83.2

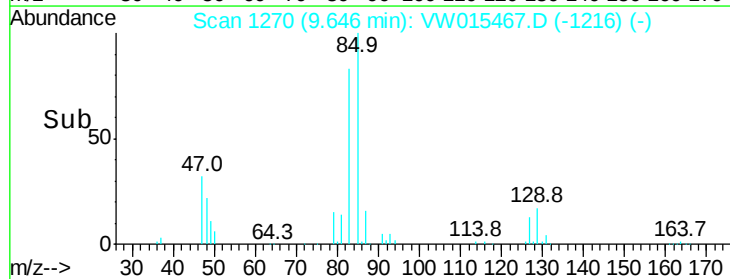
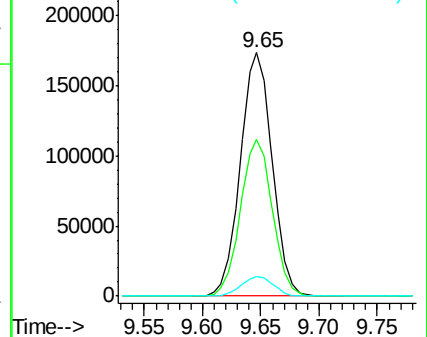
127 8.2 7.0 10.6

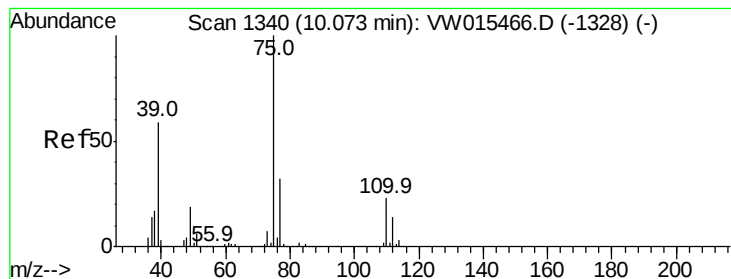


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 46.260 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampleId :

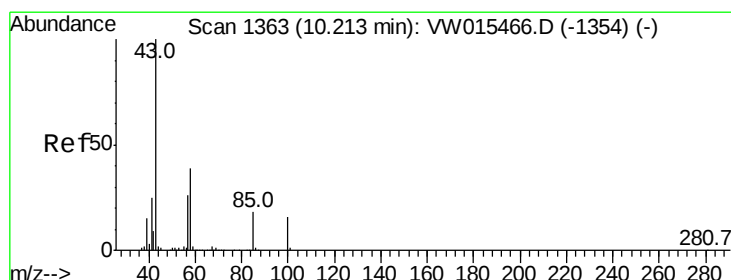
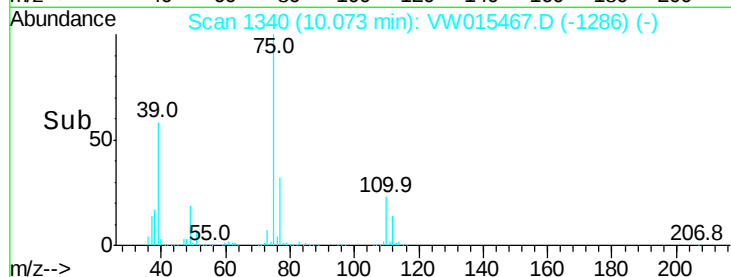
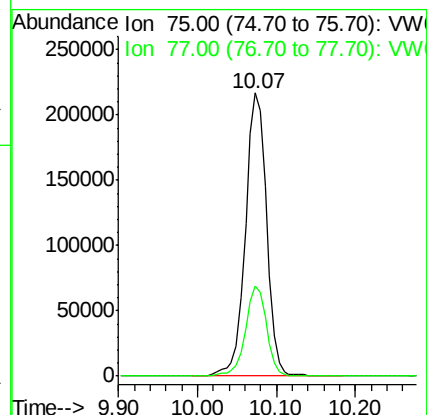
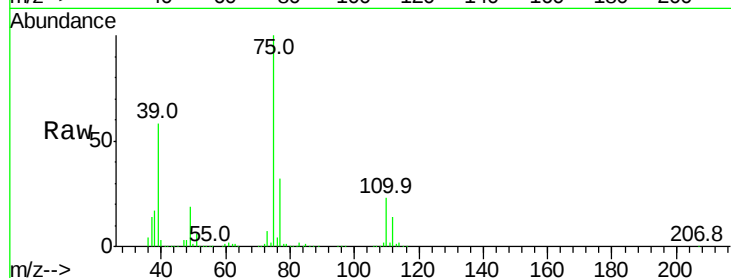
VSTD05006

Tgt Ion: 75 Resp: 404587

Ion Ratio Lower Upper

75 100

77 32.0 22.3 41.5



#43

4-Methyl-2-pentanone

Concen: 83.136 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

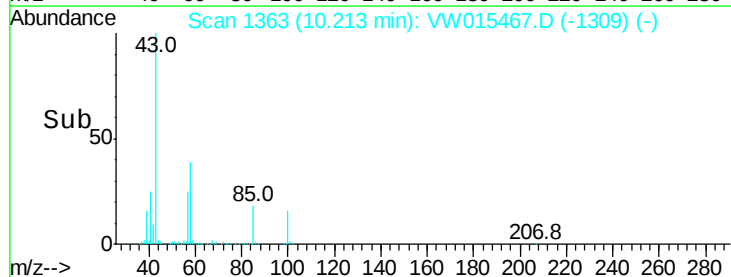
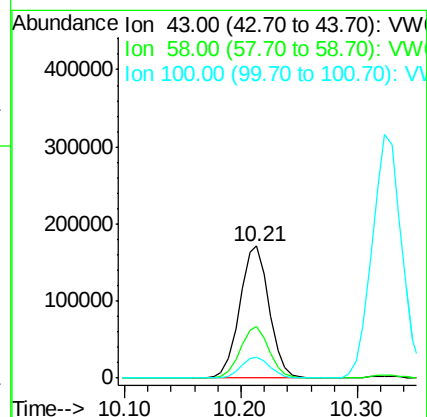
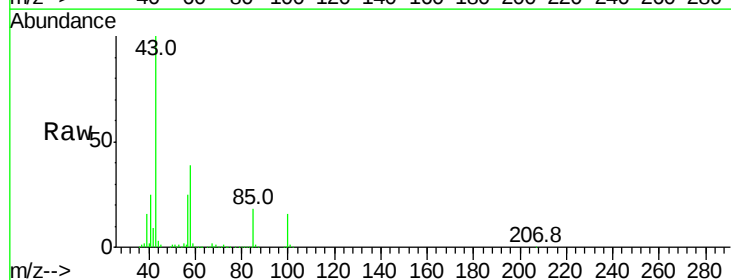
Tgt Ion: 43 Resp: 301676

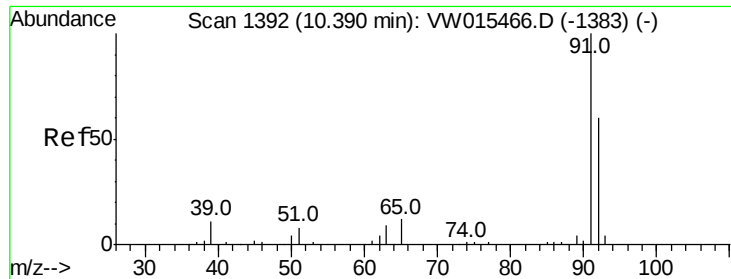
Ion Ratio Lower Upper

43 100

58 38.2 30.6 46.0

100 15.8 12.5 18.7





#44

Toluene

Concen: 45.401 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampleId :

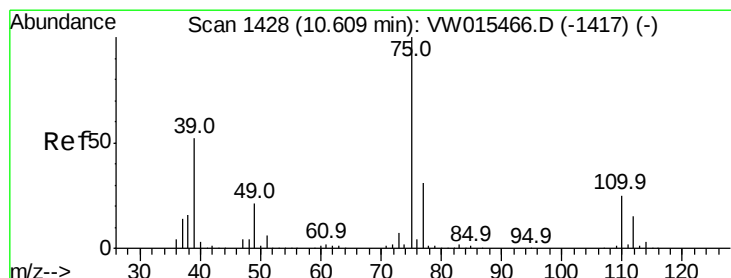
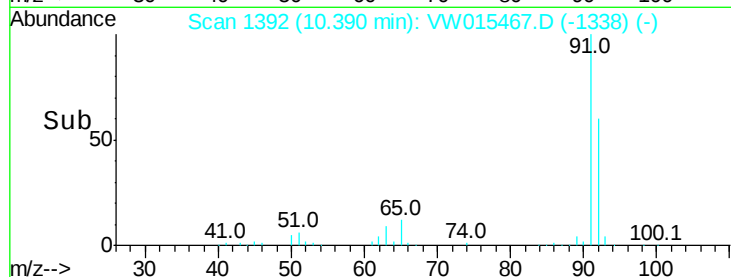
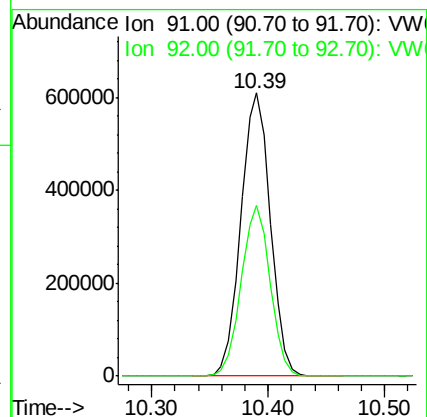
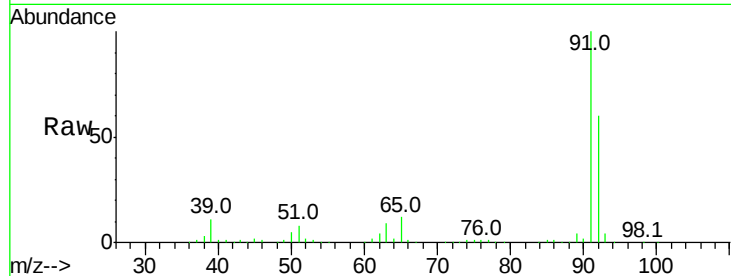
VSTD05006

Tgt Ion: 91 Resp: 1075349

Ion Ratio Lower Upper

91 100

92 60.2 41.7 77.5



#45

trans-1,3-Dichloropropene

Concen: 46.944 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.01 min

Lab File: VW015467.D

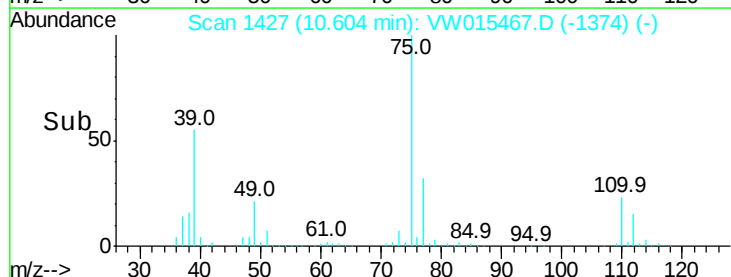
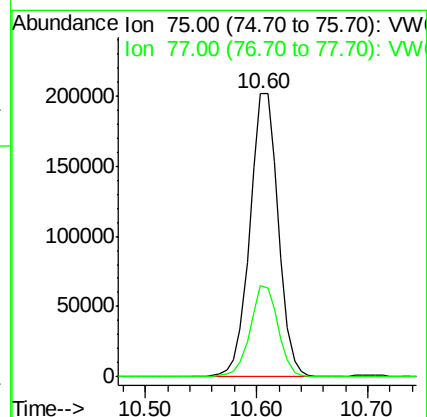
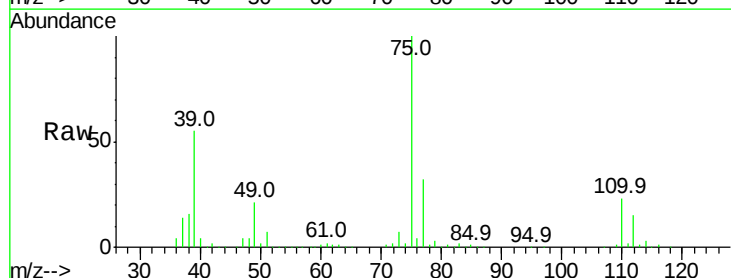
Acq: 26 May 2020 11:17

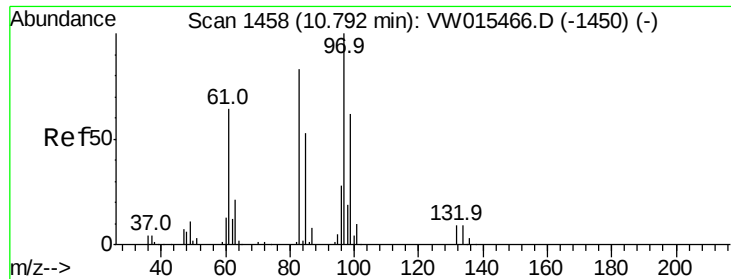
Tgt Ion: 75 Resp: 357807

Ion Ratio Lower Upper

75 100

77 32.2 21.5 39.9





#46

1,1,2-Trichloroethane

Concen: 46.691 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.01 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampleId :

VSTD05006

Tgt Ion: 97 Resp: 177288

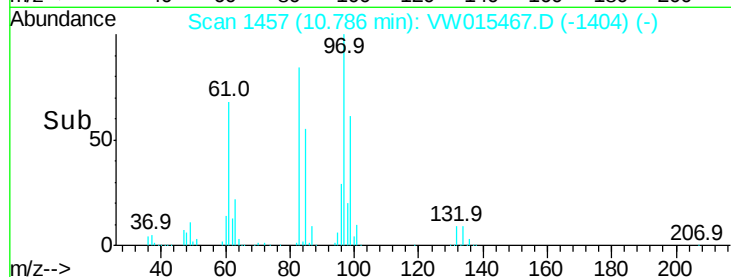
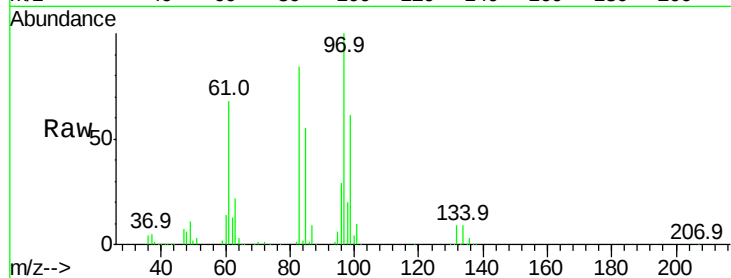
Ion Ratio Lower Upper

97 100

83 84.5 58.2 108.2

85 54.7 37.4 69.4

99 61.0 43.7 81.1



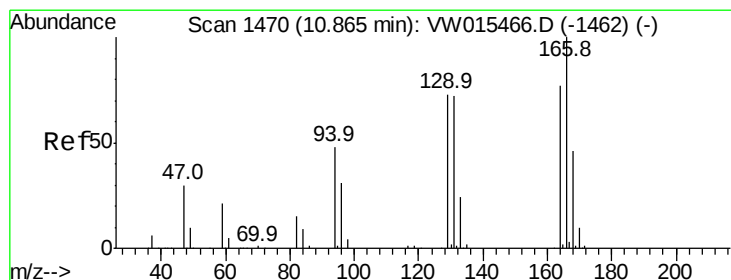
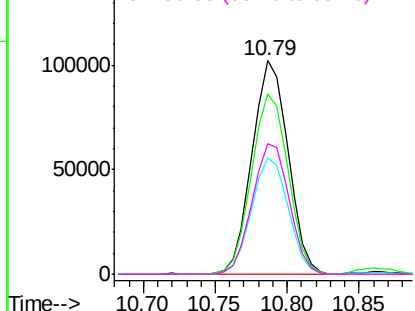
Abundance

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: 47.011 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Tgt Ion: 164 Resp: 204814

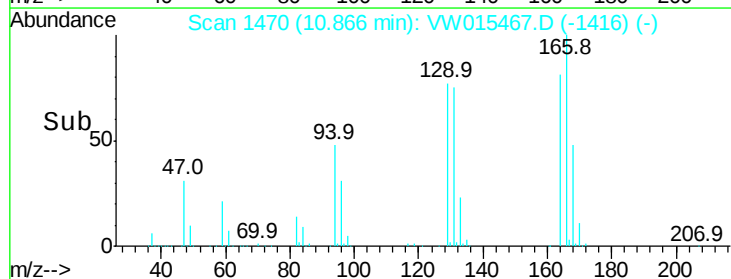
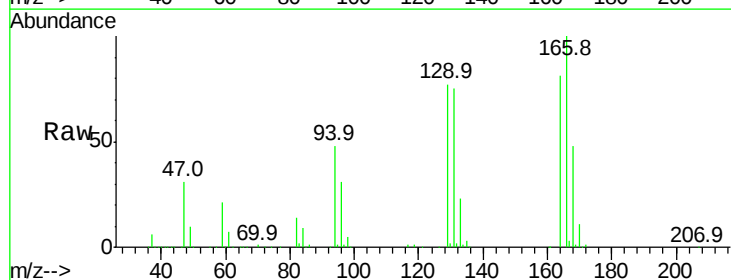
Ion Ratio Lower Upper

164 100

129 94.7 66.3 123.1

131 93.1 65.1 120.9

166 123.8 90.8 168.6



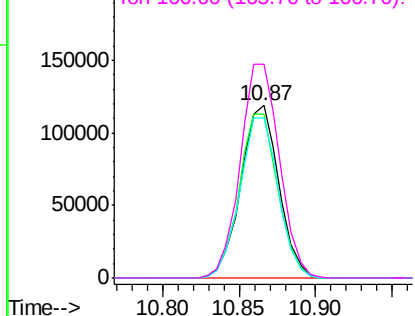
Abundance

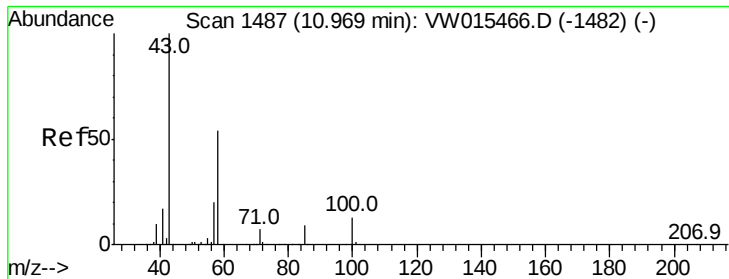
Ion 164.00 (163.70 to 164.70): V

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

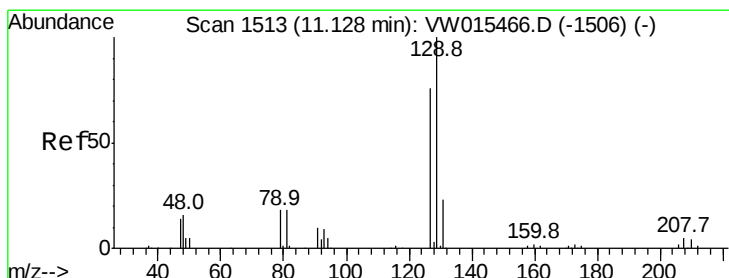
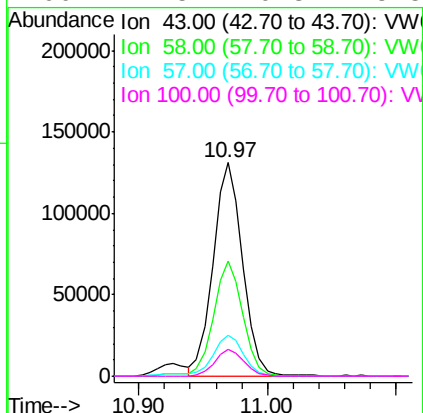
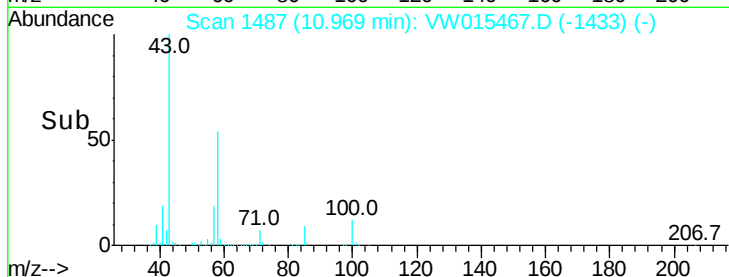
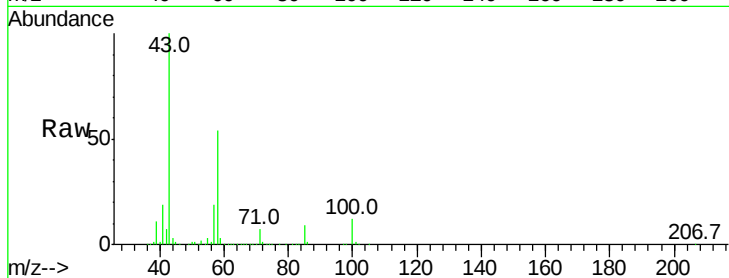




#49
2-Hexanone
Concen: 92.144 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW015467.D
Acq: 26 May 2020 11:17

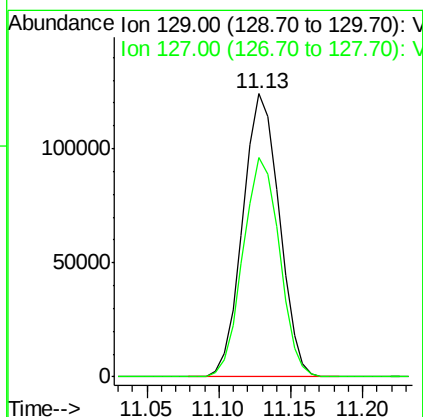
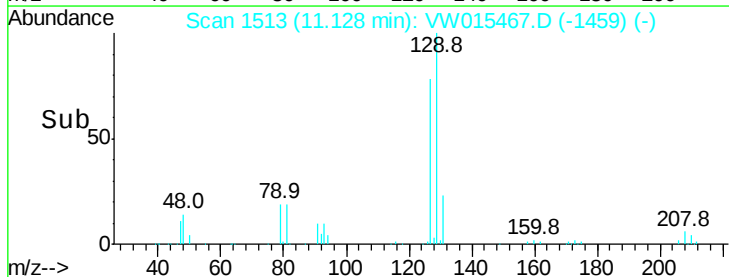
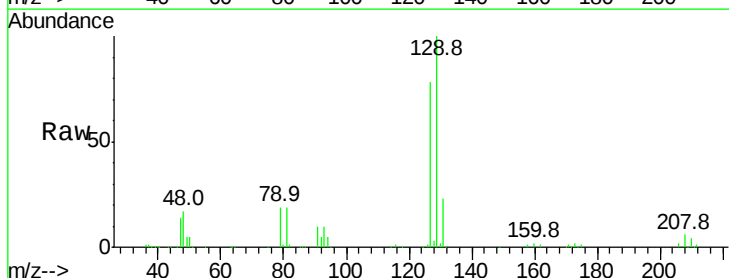
Instrument :
MSVOA_W
ClientSampleId :
VSTD05006

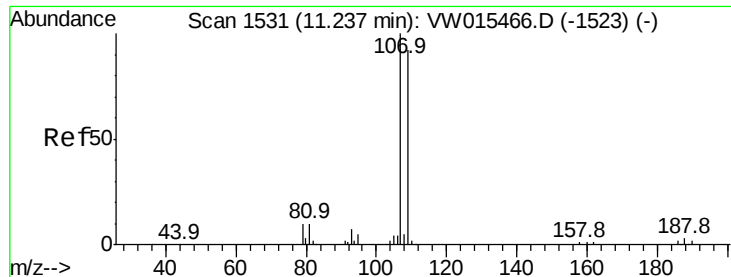
Tgt Ion: 43 Resp: 210675
Ion Ratio Lower Upper
43 100
58 53.2 42.6 64.0
57 19.4 15.5 23.3
100 12.5 10.3 15.5



#50
Dibromochloromethane
Concen: 47.502 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW015467.D
Acq: 26 May 2020 11:17

Tgt Ion: 129 Resp: 218201
Ion Ratio Lower Upper
129 100
127 77.6 53.0 98.4

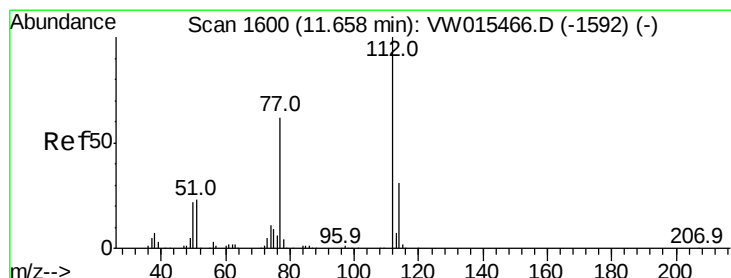
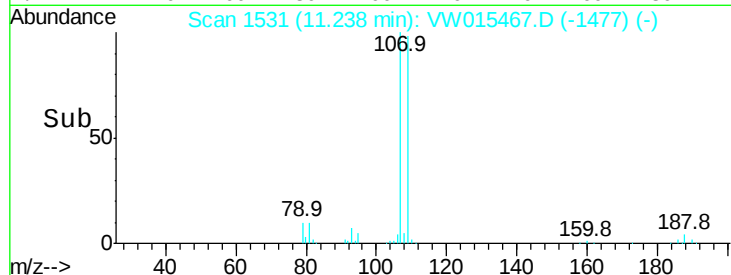
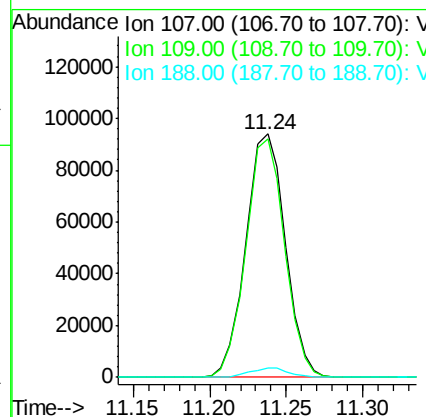
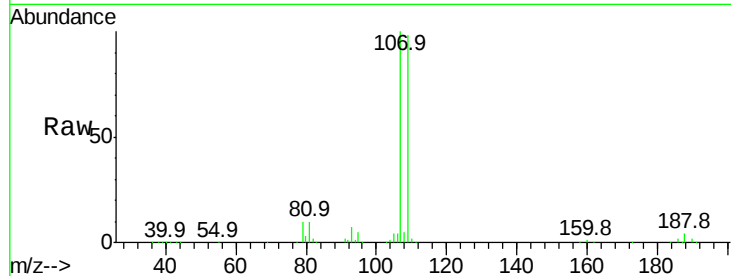




#51
 1,2-Dibromoethane
 Concen: 46.714 ug/L
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.00 min
 Lab File: VW015467.D
 Acq: 26 May 2020 11:17

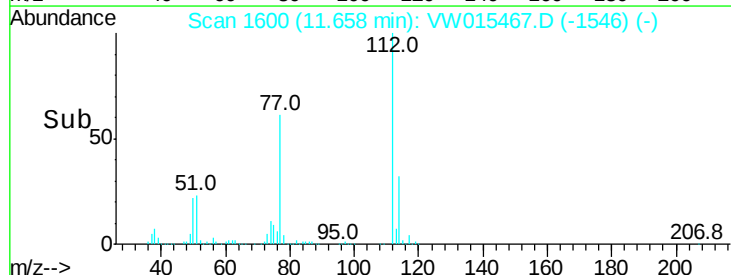
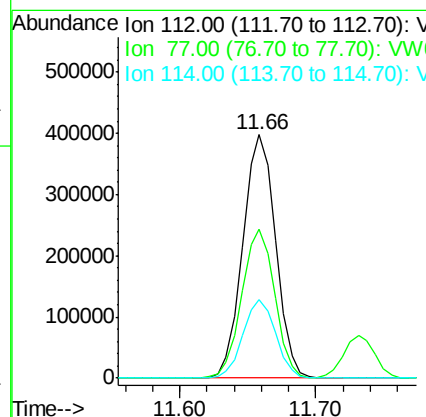
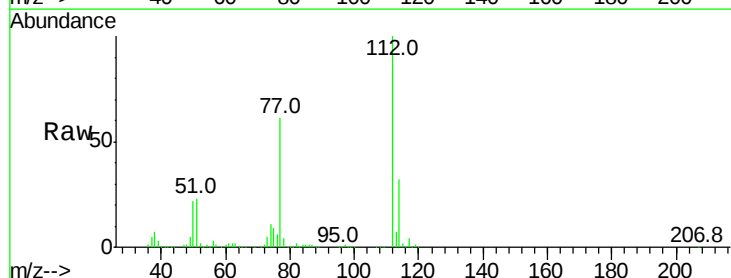
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05006

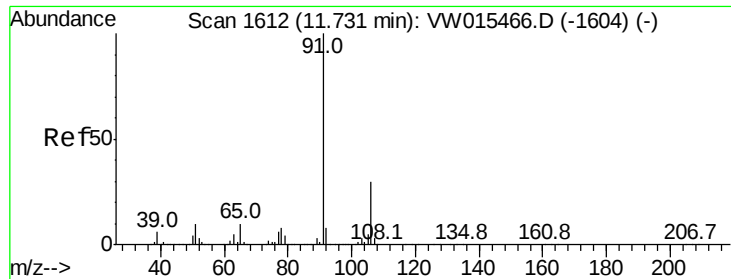
Tgt Ion:107 Resp: 169269
 Ion Ratio Lower Upper
 107 100
 109 98.0 64.6 120.0
 188 3.9 2.8 4.2



#52
 Chlorobenzene
 Concen: 44.869 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VW015467.D
 Acq: 26 May 2020 11:17

Tgt Ion:112 Resp: 670477
 Ion Ratio Lower Upper
 112 100
 77 61.4 49.7 74.5
 114 32.3 21.8 40.6





#53

Ethylbenzene

Concen: 44.991 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampleId :

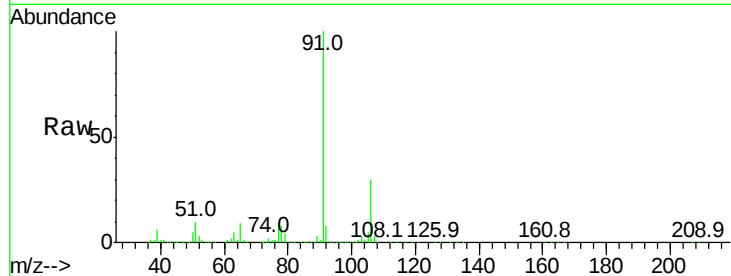
VSTD05006

Tgt Ion: 91 Resp: 1242826

Ion Ratio Lower Upper

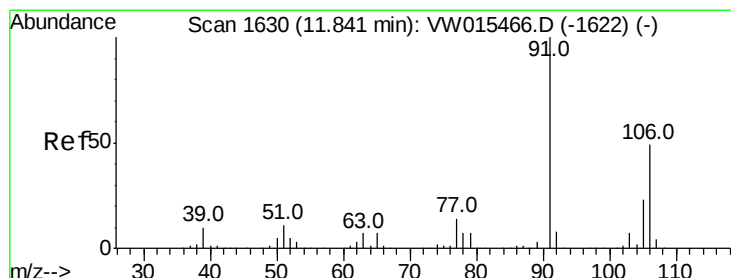
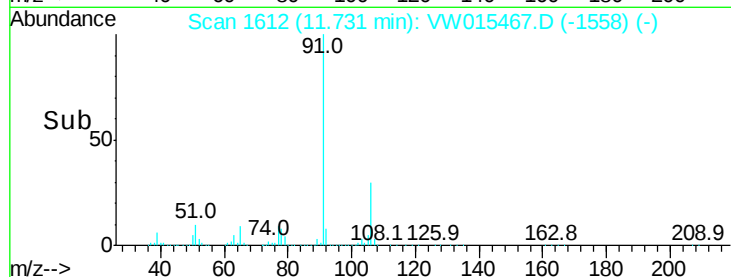
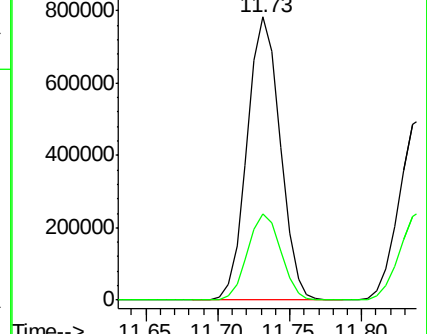
91 100

106 30.4 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 45.635 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW015467.D

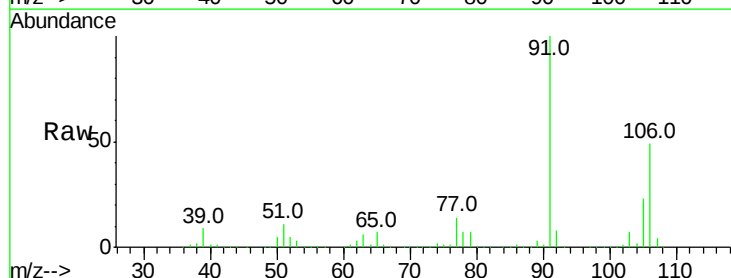
Acq: 26 May 2020 11:17

Tgt Ion: 106 Resp: 470951

Ion Ratio Lower Upper

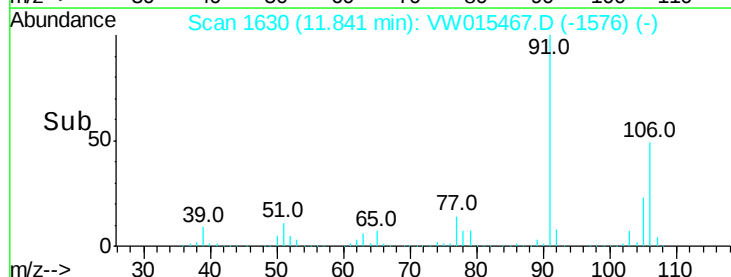
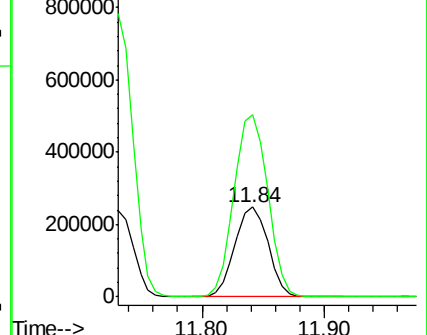
106 100

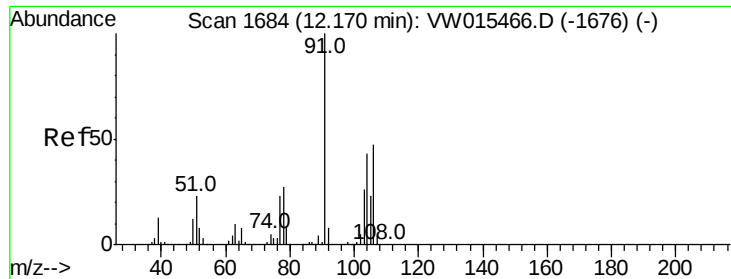
91 202.8 142.6 264.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

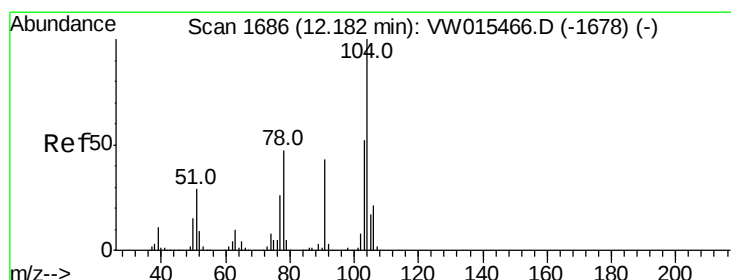
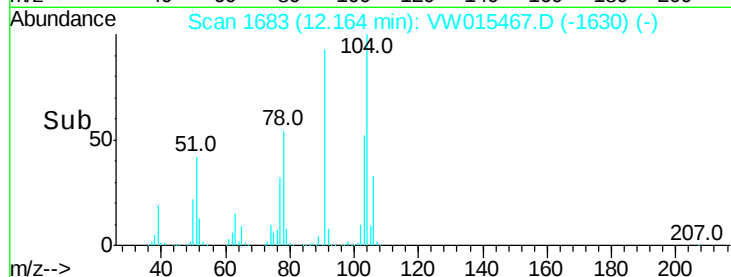
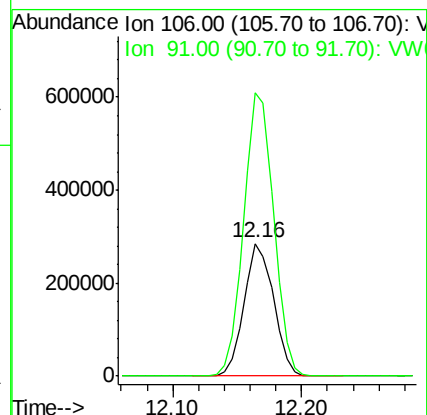
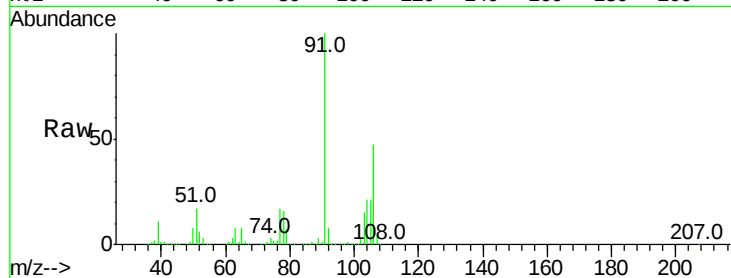




#55
o-xylene
Concen: 45.423 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW015467.D
Acq: 26 May 2020 11:17

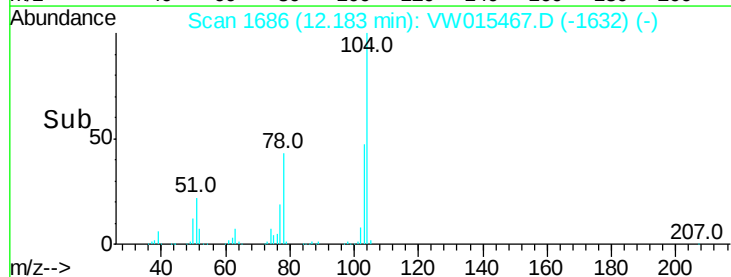
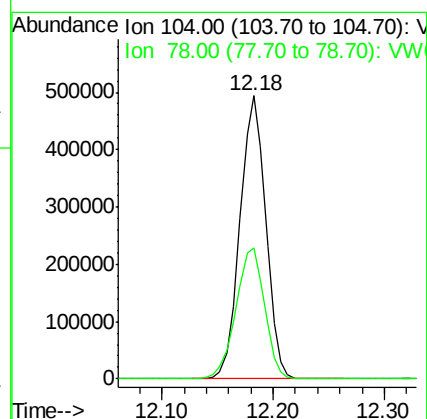
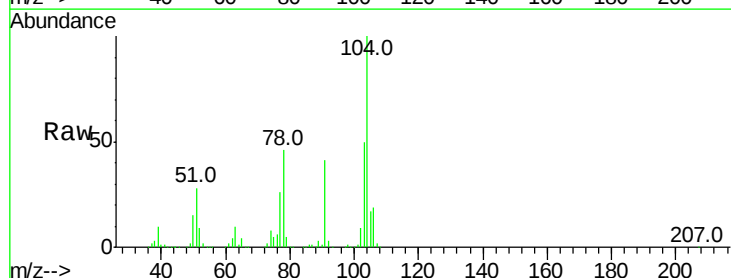
Instrument :
MSVOA_W
ClientSampleId :
VSTD05006

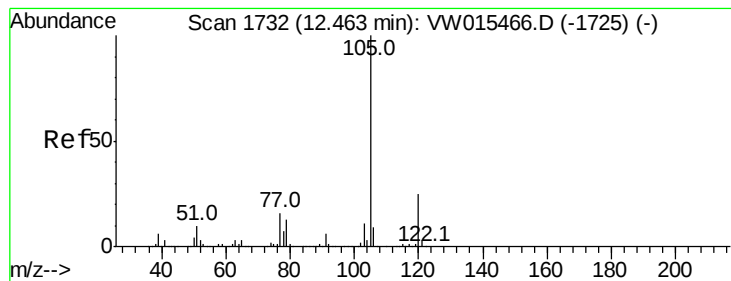
Tgt Ion:106 Resp: 450966
Ion Ratio Lower Upper
106 100
91 213.2 149.0 276.6



#56
Styrene
Concen: 46.612 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW015467.D
Acq: 26 May 2020 11:17

Tgt Ion:104 Resp: 790126
Ion Ratio Lower Upper
104 100
78 46.5 32.9 61.1





#57

Isopropylbenzene

Concen: 45.476 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampled :

VSTD05006

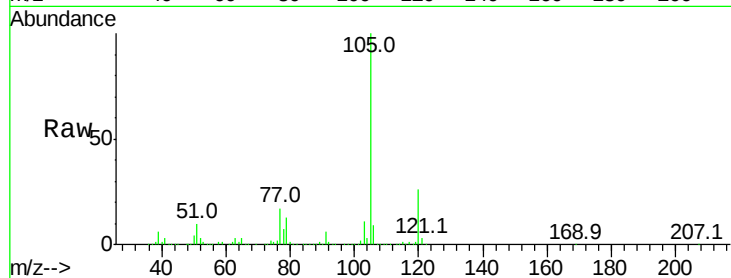
Tgt Ion:105 Resp: 1247199

Ion Ratio Lower Upper

105 100

120 26.4 21.0 31.4

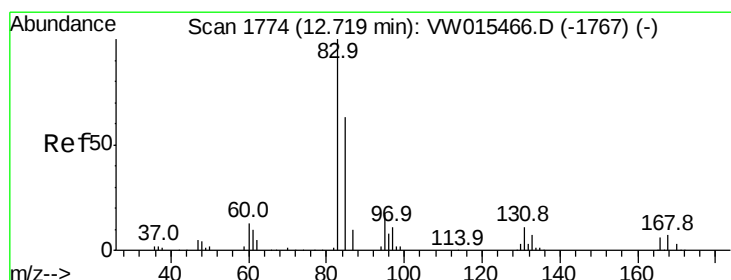
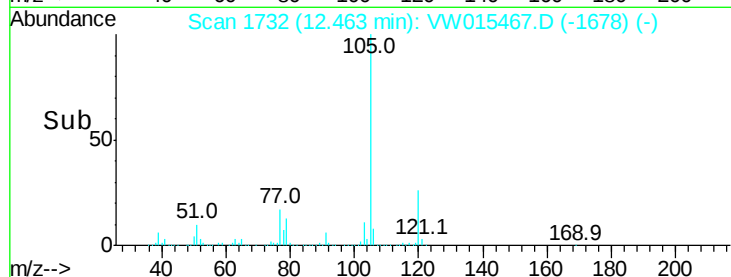
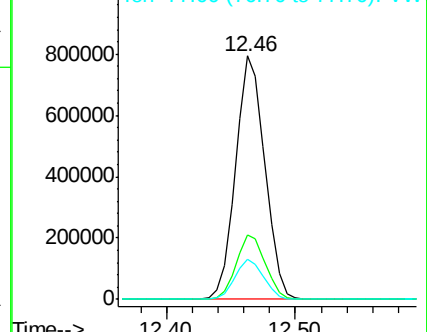
77 16.3 13.0 19.6



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: 46.120 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

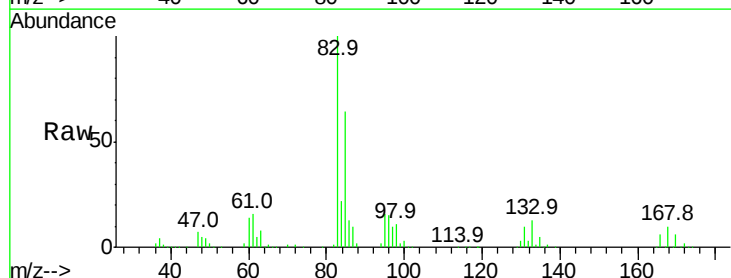
Tgt Ion: 83 Resp: 208313

Ion Ratio Lower Upper

83 100

85 64.0 44.7 82.9

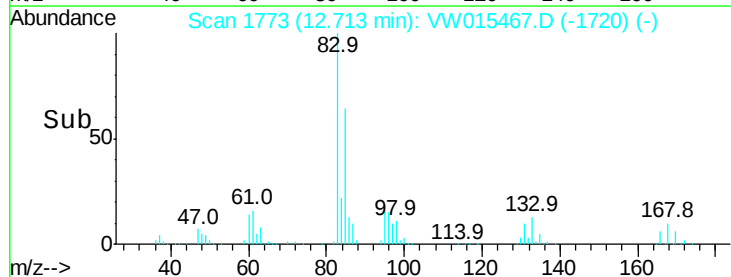
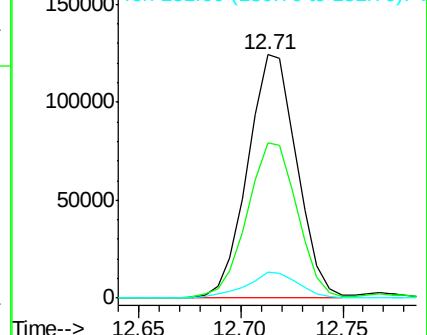
131 10.5 9.1 13.7

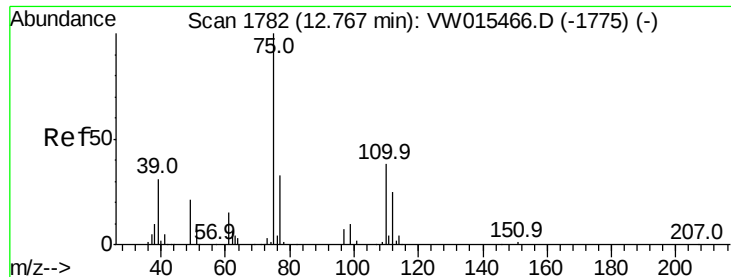


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.116 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampleId :

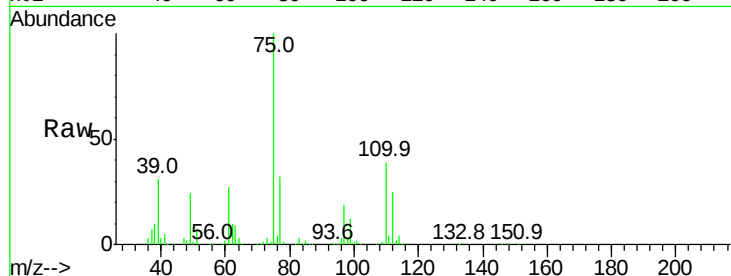
VSTD05006

Tgt Ion: 75 Resp: 158205

Ion Ratio Lower Upper

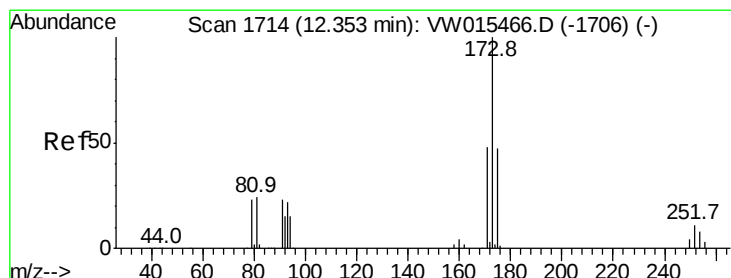
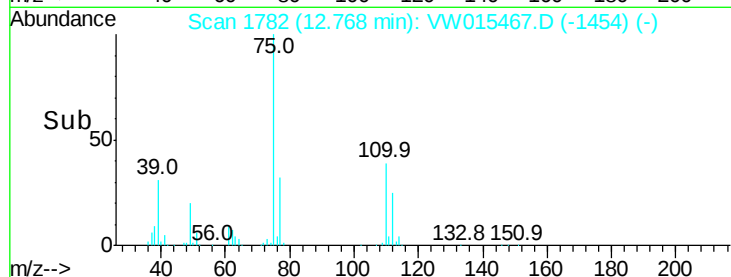
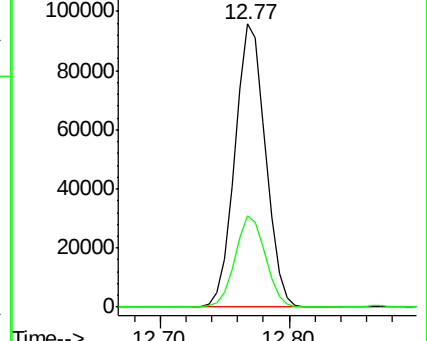
75 100

77 32.0 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: 48.462 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

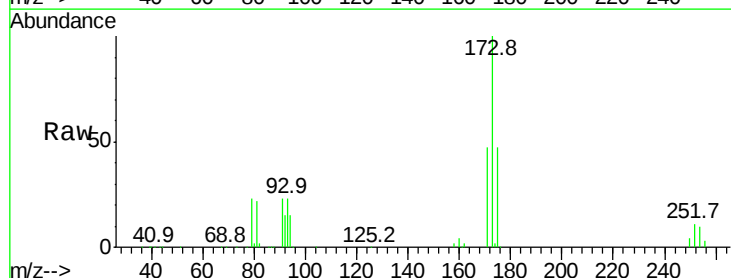
Tgt Ion: 173 Resp: 129309

Ion Ratio Lower Upper

173 100

175 49.3 37.9 56.9

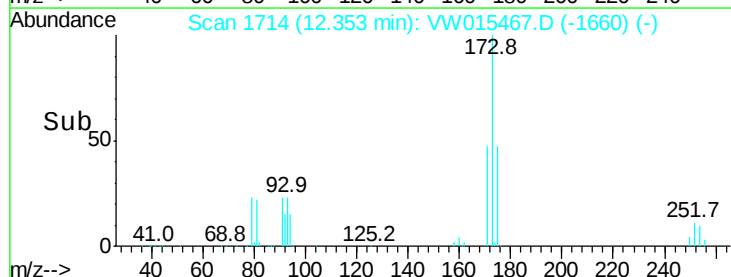
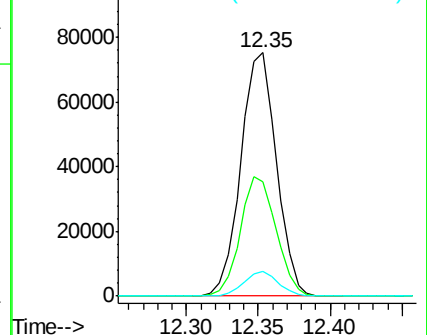
254 9.6 6.8 10.2

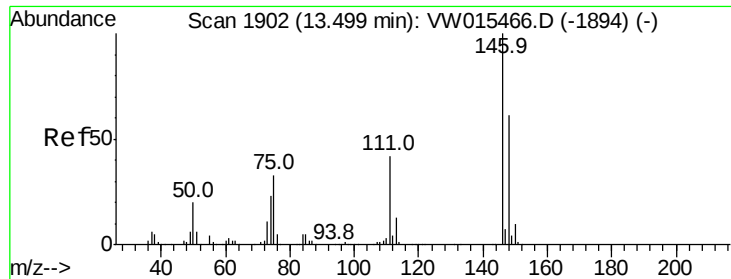


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

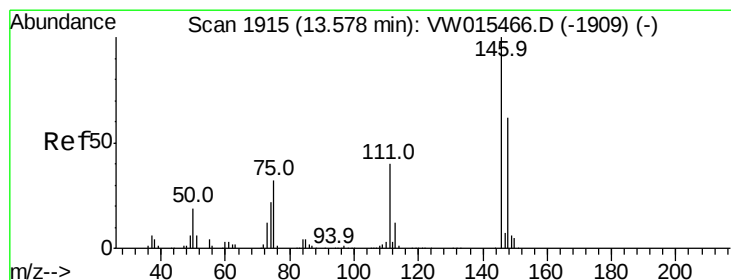
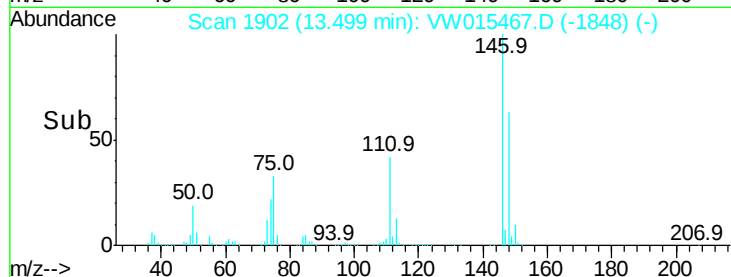
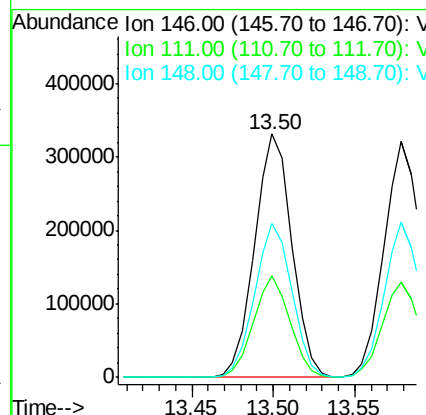
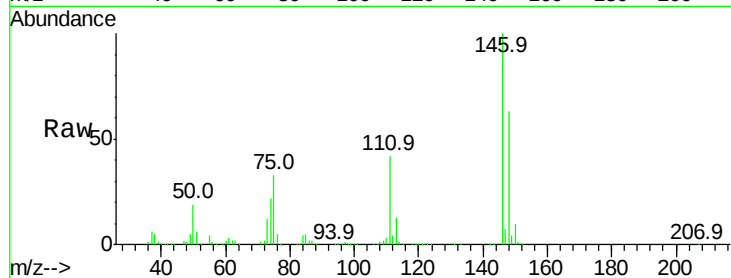




#63
 1,3-Dichlorobenzene
 Concen: 45.810 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW015467.D
 Acq: 26 May 2020 11:17

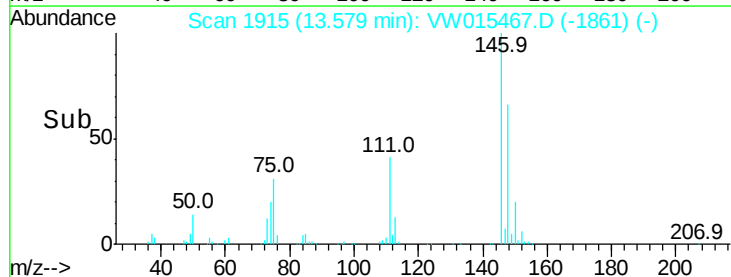
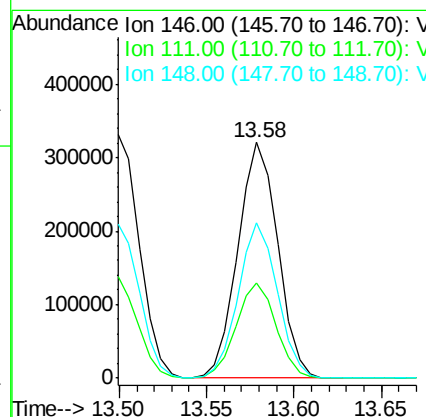
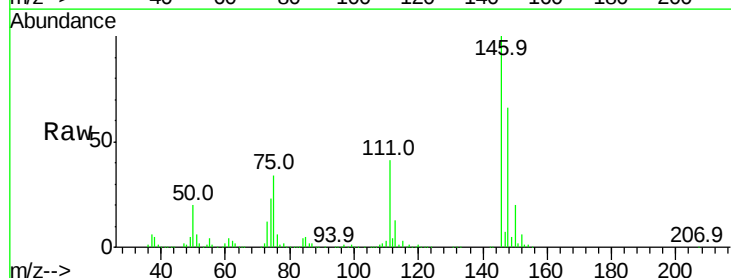
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05006

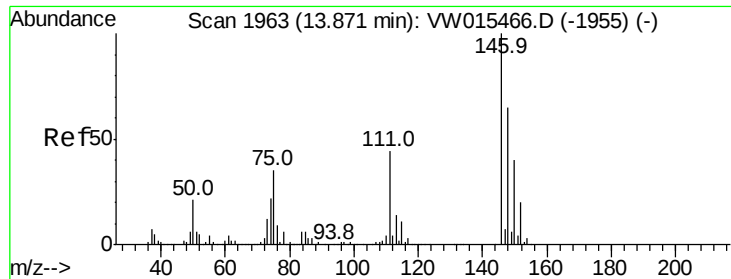
Tgt Ion:146 Resp: 526263
 Ion Ratio Lower Upper
 146 100
 111 41.5 29.3 54.5
 148 63.1 42.5 78.9



#64
 1,4-Dichlorobenzene
 Concen: 44.500 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW015467.D
 Acq: 26 May 2020 11:17

Tgt Ion:146 Resp: 508937
 Ion Ratio Lower Upper
 146 100
 111 40.5 28.1 52.1
 148 66.0 43.3 80.3

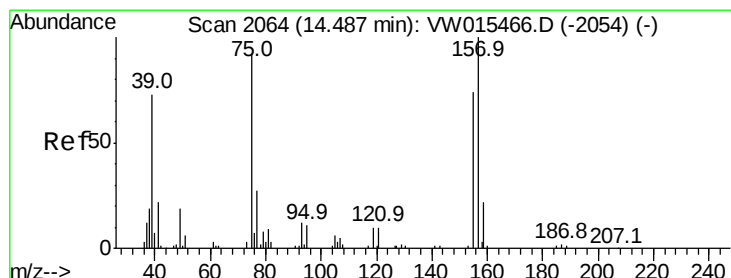
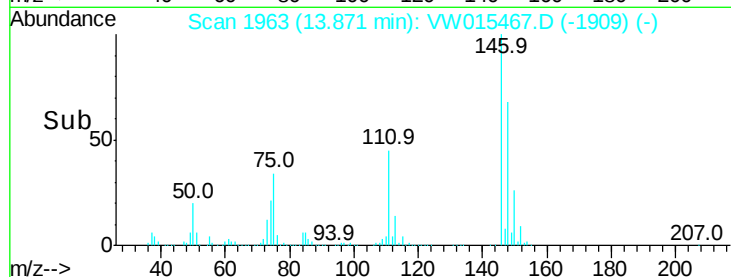
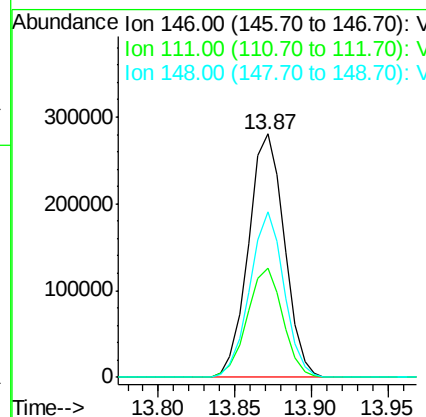
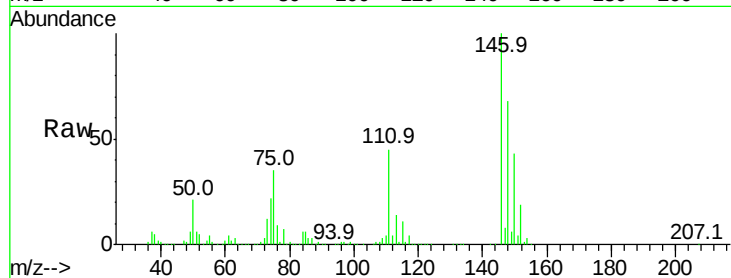




#65
 1,2-Dichlorobenzene
 Concen: 45.386 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW015467.D
 Acq: 26 May 2020 11:17

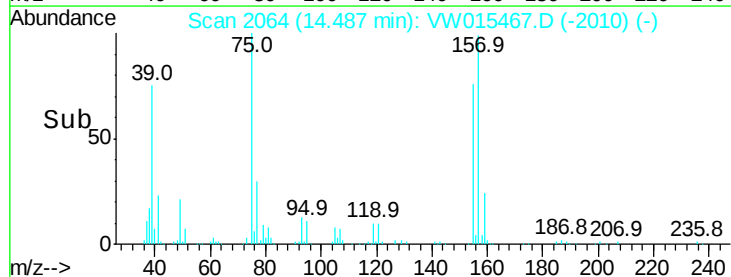
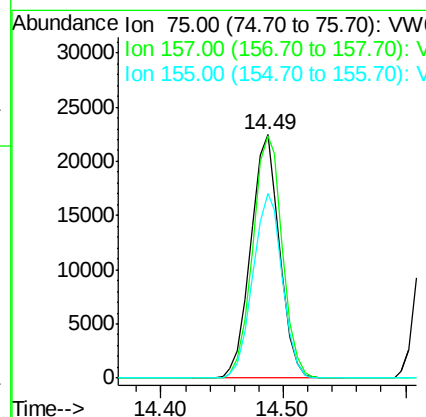
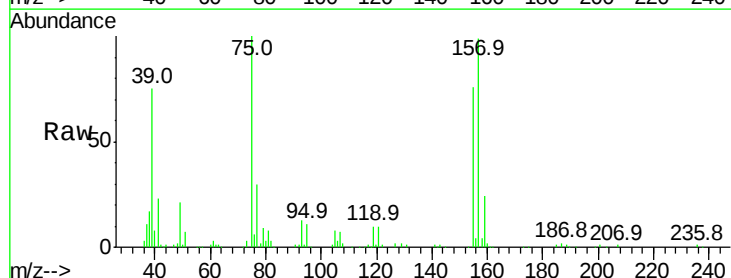
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD05006

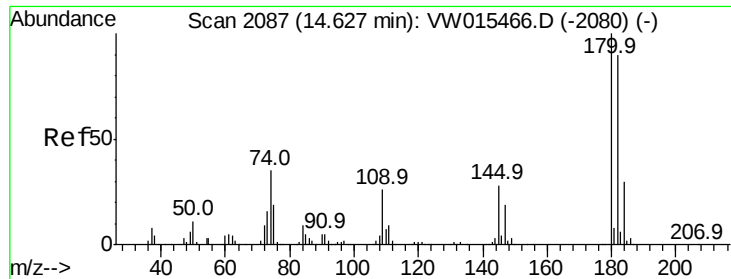
Tgt Ion:146 Resp: 458653
 Ion Ratio Lower Upper
 146 100
 111 44.7 34.9 52.3
 148 68.2 51.8 77.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 45.083 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW015467.D
 Acq: 26 May 2020 11:17

Tgt Ion: 75 Resp: 36722
 Ion Ratio Lower Upper
 75 100
 157 99.3 87.4 131.0
 155 76.0 64.6 96.8

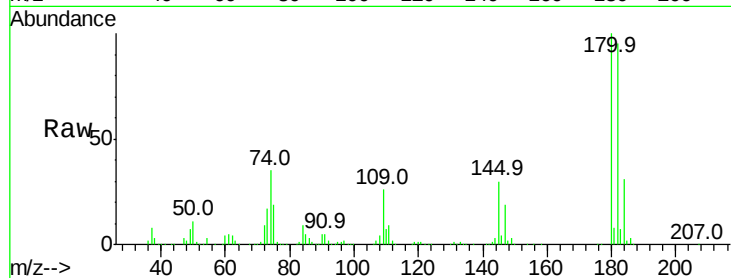




#67
 1,3,5-Trichlorobenzene
 Concen: 45.135 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW015467.D
 Acq: 26 May 2020 11:17

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05006

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	356517		
182	94.8	76.6	114.8	
184	30.7	24.4	36.6	
145	30.5	24.0	36.0	

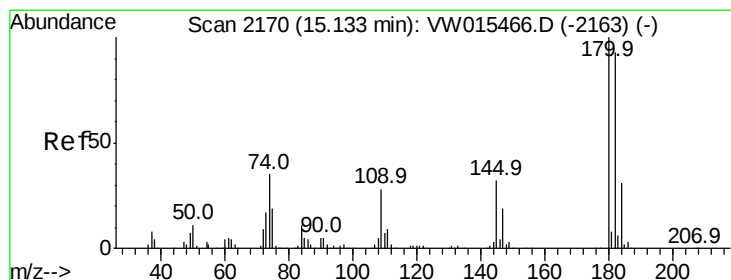
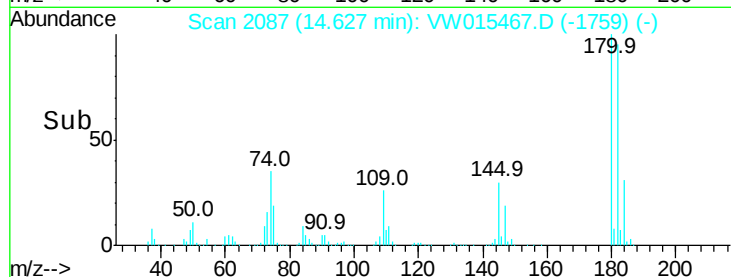
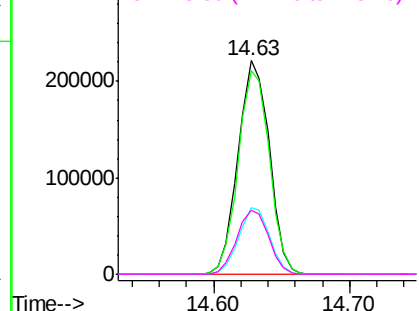


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

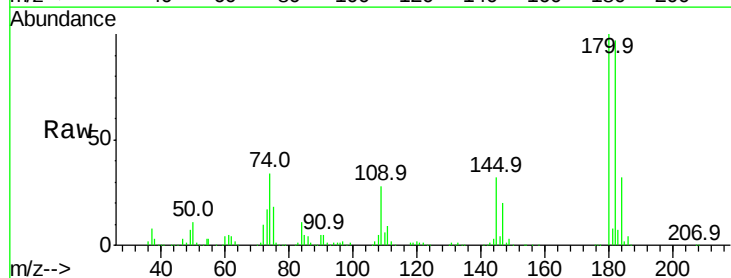
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 44.744 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW015467.D
 Acq: 26 May 2020 11:17

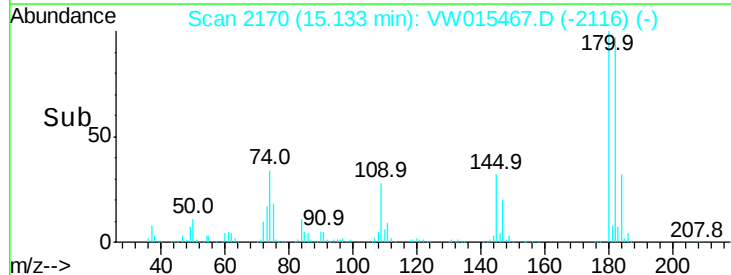
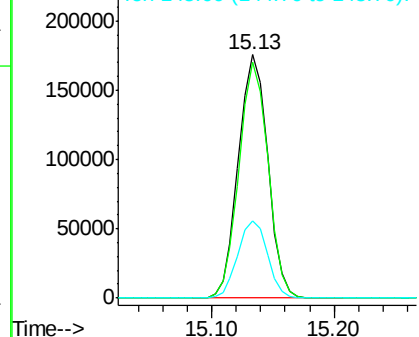
Tgt Ion	Ratio	Resp	Lower	Upper
180	100	291829		
182	95.8	76.1	114.1	
145	32.1	25.2	37.8	

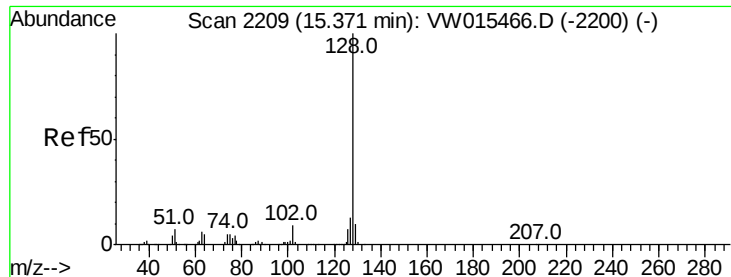


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 46.716 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

Instrument :

MSVOA_W

ClientSampleId :

VSTD05006

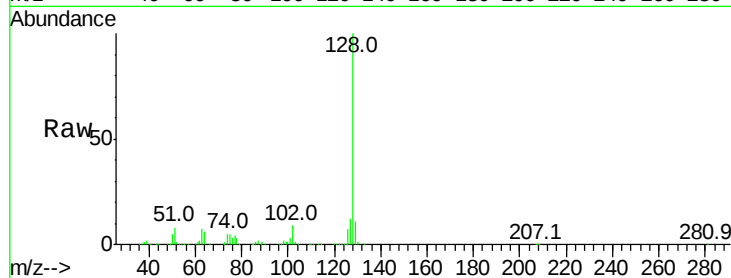
Tgt Ion:128 Resp: 571788

Ion Ratio Lower Upper

128 100

129 10.7 8.6 12.8

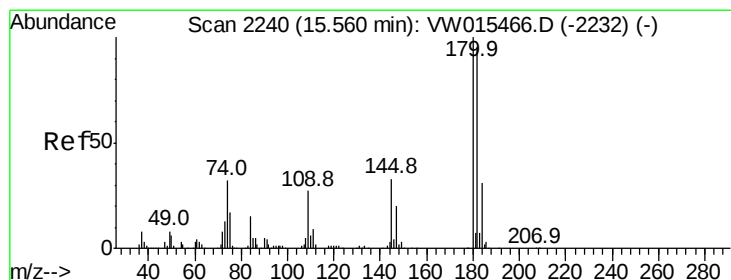
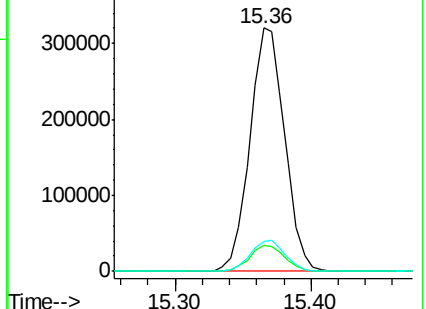
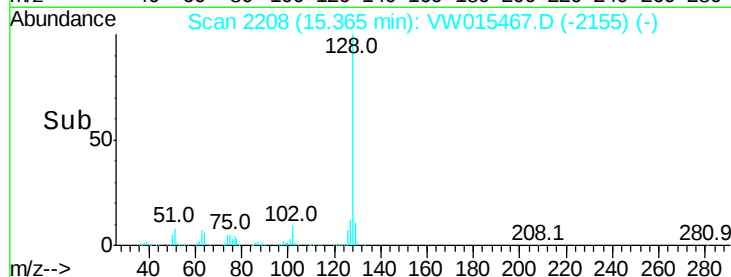
127 12.9 10.6 15.8



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: 45.191 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW015467.D

Acq: 26 May 2020 11:17

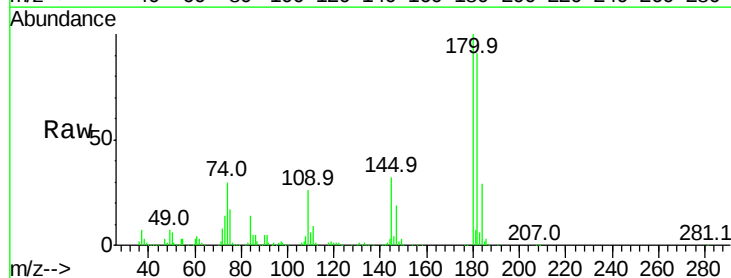
Tgt Ion:180 Resp: 253938

Ion Ratio Lower Upper

180 100

182 93.3 75.4 113.2

145 33.2 26.7 40.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

