

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100118\
 Data File : VW005753.D
 Acq On : 02 Oct 2018 00:13
 Operator : SY/AP
 Sample : J5180-20
 Misc : 4.01G/105ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 02 07:20:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM092818S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Oct 02 07:19:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	164730	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	90999	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.30	152	2153	25.00	ug/L	-0.26

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	35540	16.92	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	67.68%
7) Chloroethane-d5	2.89	69	34897	21.30	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.20%
10) 1,1-Dichloroethene-d2	4.01	63	65083	14.19	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	56.76%
20) 2-Butanone-d5	7.09	46	53504	79.36	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	158.72%#
24) Chloroform-d	7.65	84	108881	25.73	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	102.92%
26) 1,2-Dichloroethane-d4	8.31	65	72235	28.18	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	112.72%
29) Benzene-d6	8.28	84	174481	38.73	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	154.92%#
33) 1,2-Dichloropropane-d6	9.28	67	56858	43.67	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	174.68%#
37) Toluene-d8	10.33	98	114933	25.84	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	103.36%
38) trans-1,3-Dichloropropene-	10.58	79	17903	26.18	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	104.72%
39) 2-Hexanone-d5	10.93	63	35662	116.96	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	233.92%#
48) 1,1,2,2-Tetrachloroethane-	12.71	84	48730	38.53	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	154.12%#
61) 1,2-Dichlorobenzene-d4	13.87	152	28647	376.04	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	1504.16%#

Target Compounds

					Ovalue
13) Acetone	4.14	43	199997	284.875	ug/L 71
14) Carbon disulfide	4.37	76	16258	2.424	ug/L 98
16) Methylene chloride	4.92	84	16196	5.963	ug/L 94
21) 2-Butanone	7.18	43	71541	85.089	ug/L 99
34) Benzene	8.32	78	7785	1.514	ug/L 100
35) Trichloroethene	9.09	95	1792	1.303	ug/L 94
40) 1,2-Dichloropropane	9.27	63	7137	5.696	ug/L # 95
42) cis-1,3-Dichloropropene	10.04	75	1399	0.676	ug/L # 45
43) 4-Methyl-2-pentanone	10.22	43	9302	9.097	ug/L 98
44) Toluene	10.39	91	53600	9.328	ug/L 97
46) 1,1,2-Trichloroethane	10.76	97	6559	6.273	ug/L # 42
47) Tetrachloroethene	10.87	164	9739	8.036	ug/L 93
49) 2-Hexanone	10.94	43	36953	51.481	ug/L # 26
51) 1,2-Dibromoethane	11.23	107	372	0.368	ug/L # 1
52) Chlorobenzene	11.88	112	12875	3.406	ug/L 93
53) Ethylbenzene	11.74	91	203790	30.976	ug/L 98
54) m,p-Xylene	11.84	106	133529	53.873	ug/L 97

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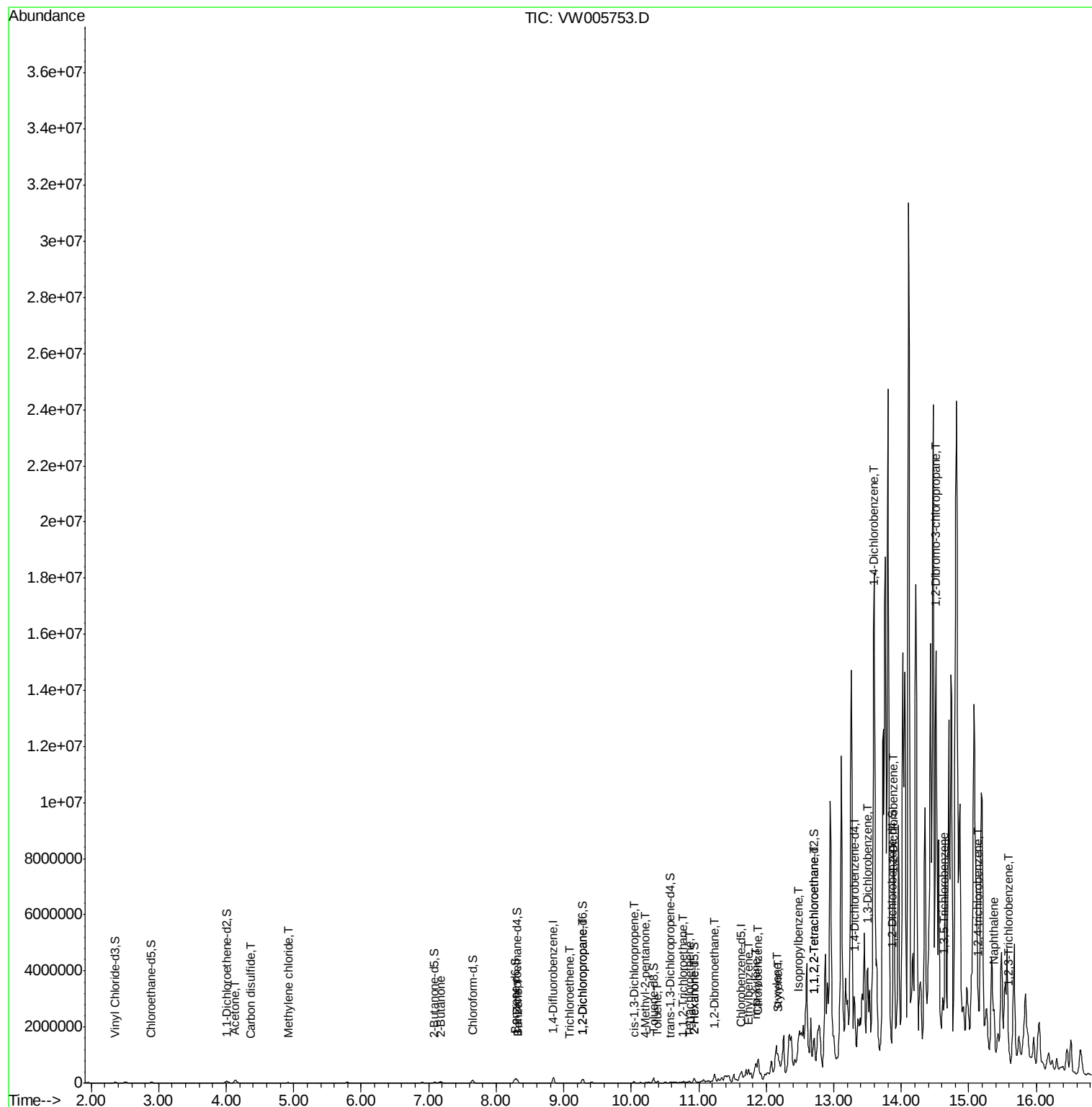
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) o-xylene	12.17	106	121168	51.866	uq/L	100
56) Styrene	12.18	104	17922	4.371	uq/L #	1
57) Isopropylbenzene	12.47	105	120122	18.002	uq/L #	35
58) 1,1,2,2-Tetrachloroethane	12.71	83	32623	24.458	uq/L #	1
63) 1,3-Dichlorobenzene	13.51	146	208	1.521	uq/L #	1
64) 1,4-Dichlorobenzene	13.58	146	773	5.413	uq/L #	1
65) 1,2-Dichlorobenzene	13.87	146	724	5.502	uq/L #	1
66) 1,2-Dibromo-3-chloropropan	14.51	75	65183	5209.660	uq/L #	9
67) 1,3,5-Trichlorobenzene	14.63	180	54	0.481	uq/L #	1
68) 1,2,4-trichlorobenzene	15.15	180	747	8.102	uq/L #	13
69) Naphthalene	15.38	128	382518	2070.470	uq/L #	93
70) 1,2,3-Trichlorobenzene	15.59	180	3110	35.990	uq/L #	72

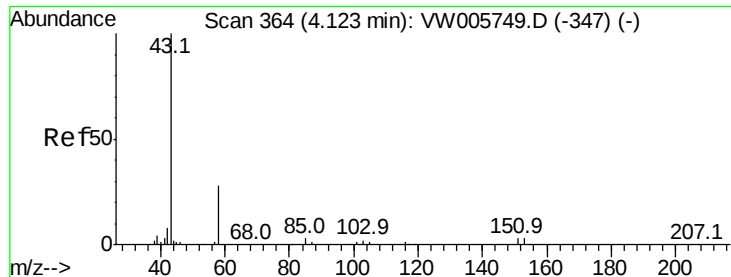
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

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QLast Update : Tue Oct 02 07:19:35 2018
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#13

Acetone

Concen: 284.875 ug/L

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW005753.D

Acq: 02 Oct 2018 00:13

Instrument :

MSVOA_W

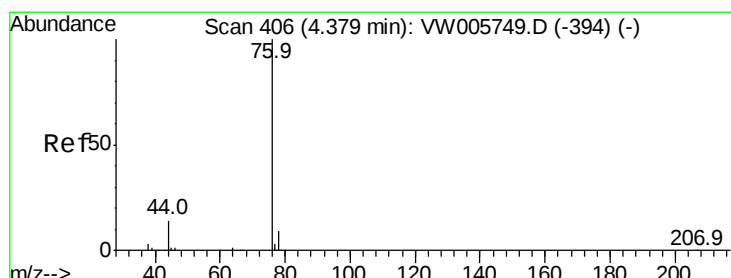
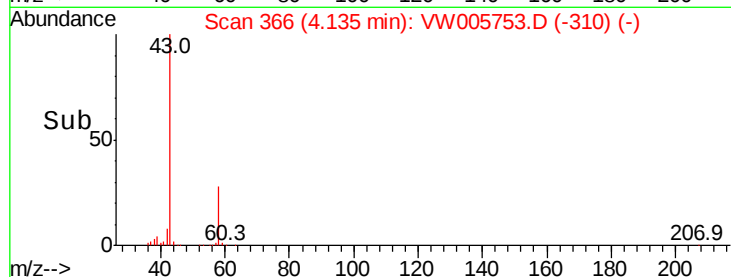
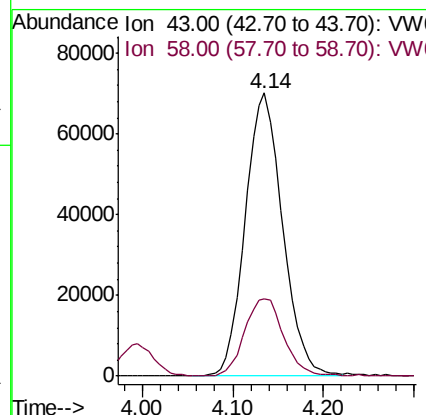
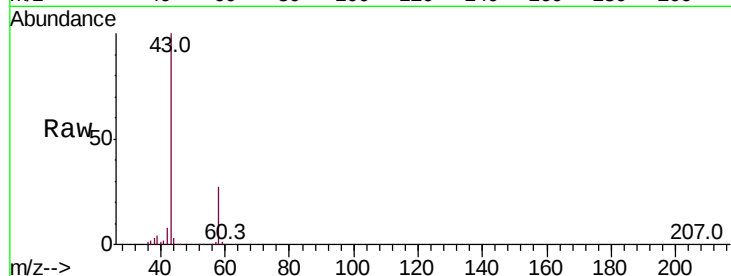
ClientSampled :

Tot Ion: 43 Resp: 199997

Ion Ratio Lower Upper

43 100

58 28.4 0.0 31.8



#14

Carbon disulfide

Concen: 2.424 ug/L

RT: 4.37 min Scan# 404

Delta R.T. -0.01 min

Lab File: VW005753.D

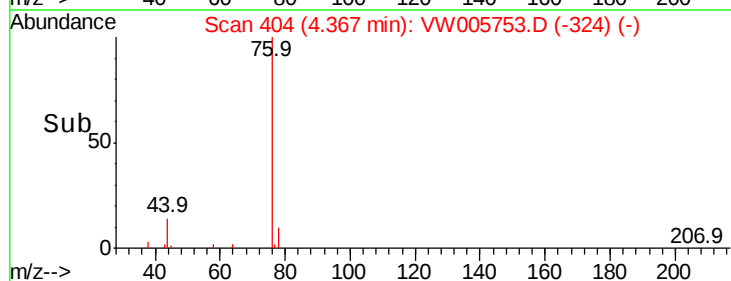
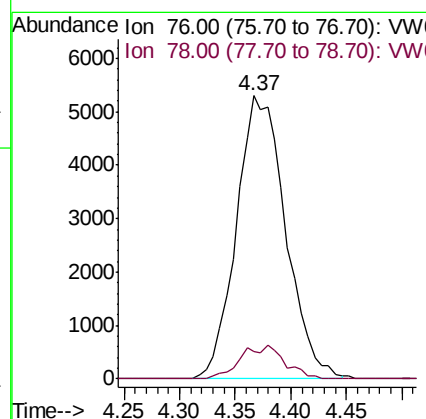
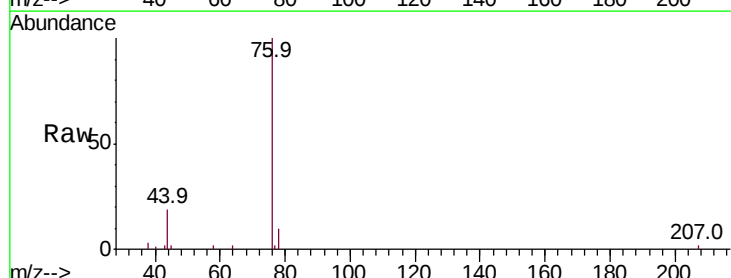
Acq: 02 Oct 2018 00:13

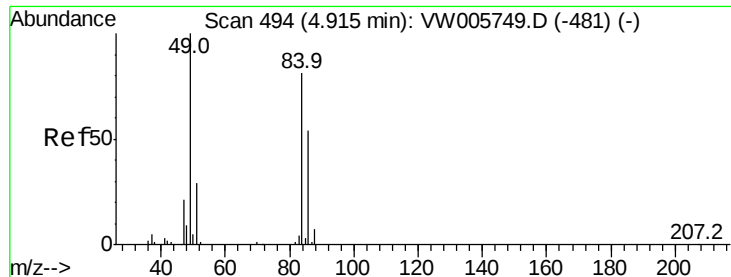
Tgt Ion: 76 Resp: 16258

Ion Ratio Lower Upper

76 100

78 9.6 7.1 10.7

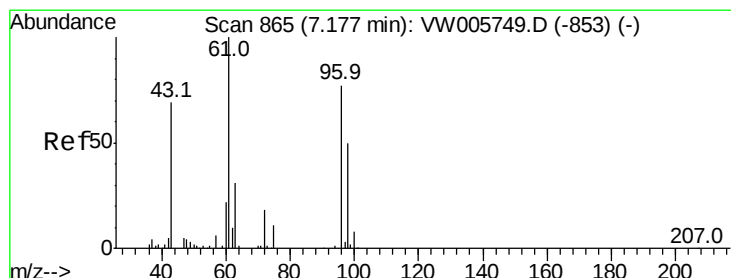
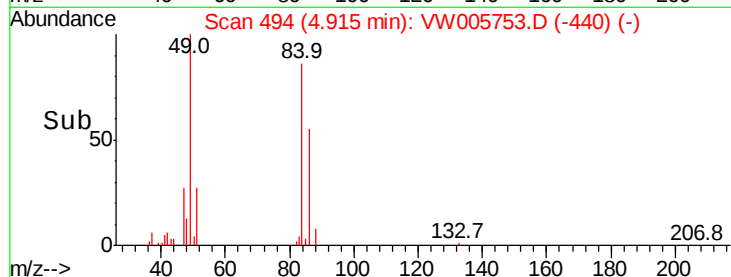
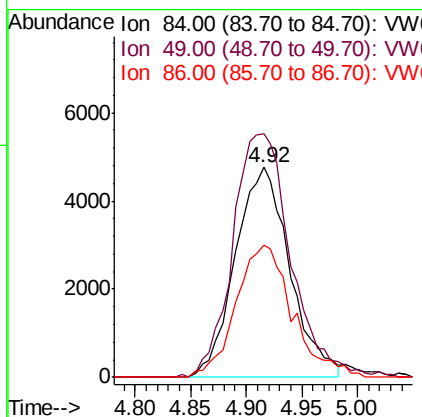
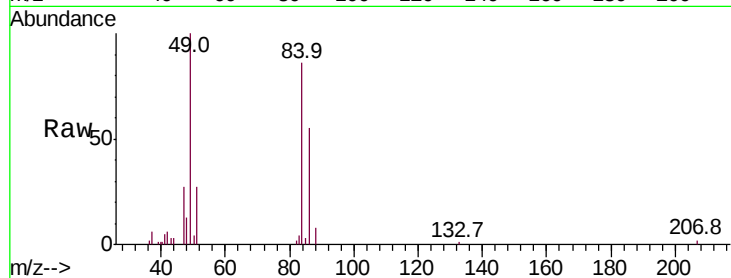




#16
Methylene chloride
Concen: 5.963 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW005753.D
Acq: 02 Oct 2018 00:13

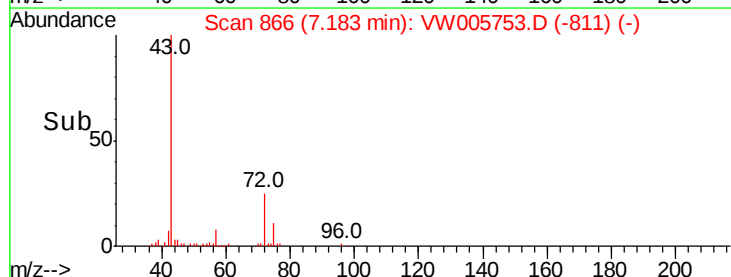
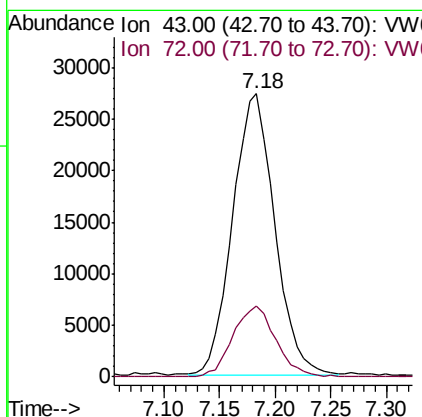
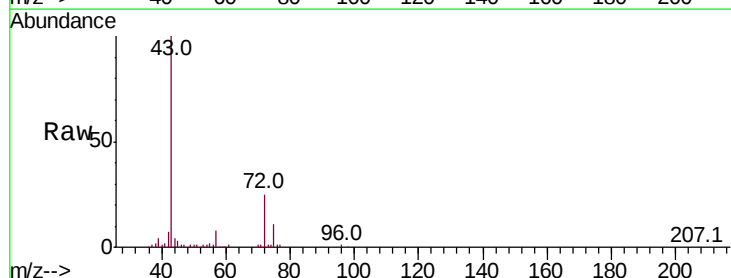
Instrument :
MSVOA_W
ClientSampleId :

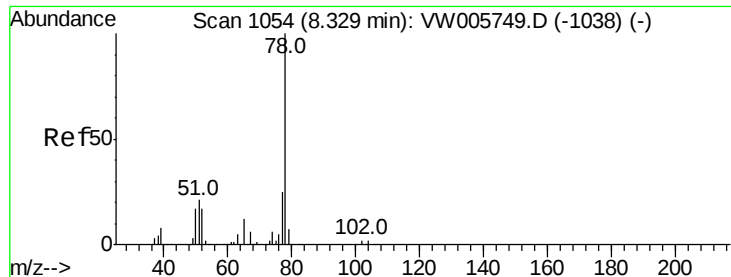
Tot Ion: 84 Resp: 16196
Ion Ratio Lower Upper
84 100
49 116.1 87.2 162.0
86 63.3 43.2 80.2



#21
2-Butanone
Concen: 85.089 ug/L
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW005753.D
Acq: 02 Oct 2018 00:13

Tgt Ion: 43 Resp: 71541
Ion Ratio Lower Upper
43 100
72 25.7 13.2 39.6





#34

Benzene

Concen: 1.514 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VW005753.D

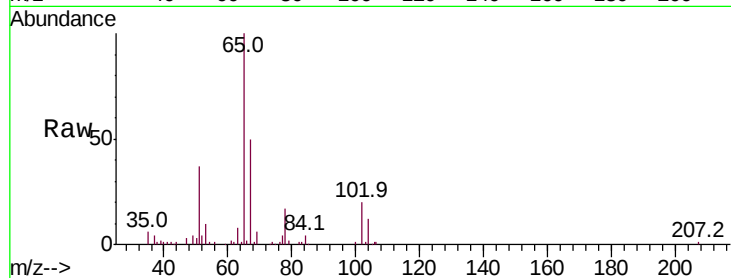
Acq: 02 Oct 2018 00:13

Instrument :

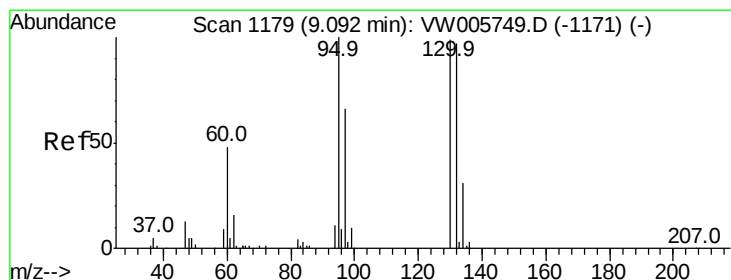
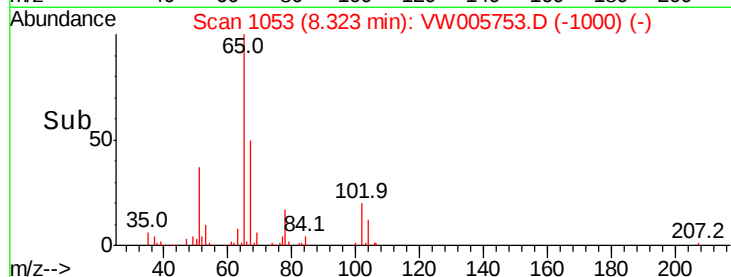
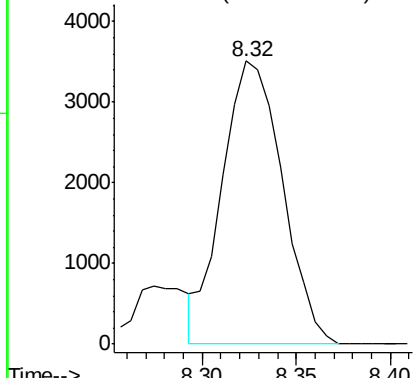
MSVOA_W

ClientSampled :

Tgt Ion: 78 Resp: 7785



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 1.303 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW005753.D

Acq: 02 Oct 2018 00:13

Tgt Ion: 95 Resp: 1792

Ion	Ratio	Lower	Upper
95	100		
97	76.1	45.2	84.0
132	97.2	68.0	126.4
130	109.4	71.3	132.5

95 100

97 76.1 45.2 84.0

132 97.2 68.0 126.4

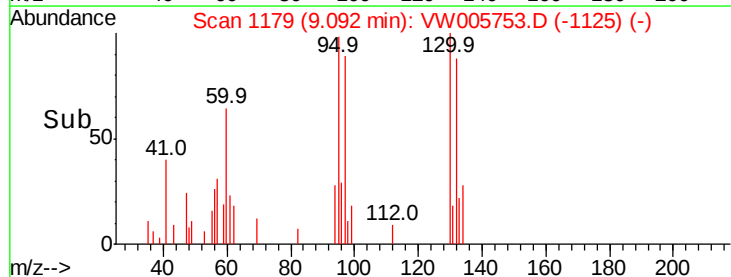
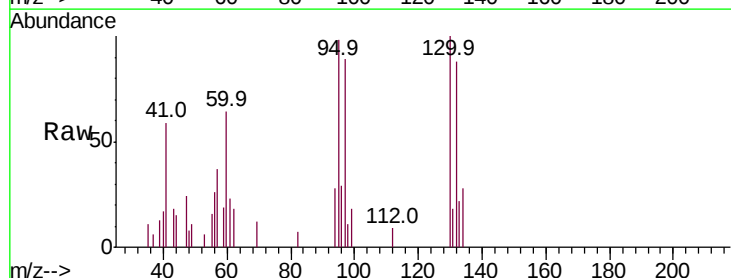
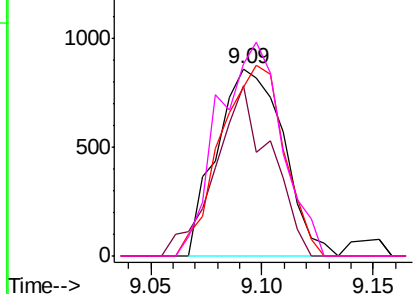
130 109.4 71.3 132.5

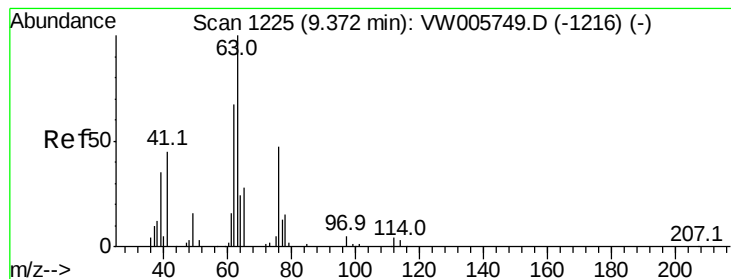
Abundance Ion 95.00 (94.70 to 95.70): VW

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





#40

1,2-Dichloropropane

Concen: 5.696 ug/L

RT: 9.27 min Scan# 1209

Delta R.T. -0.10 min

Lab File: VW005753.D

Acq: 02 Oct 2018 00:13

Instrument :

MSVOA_W

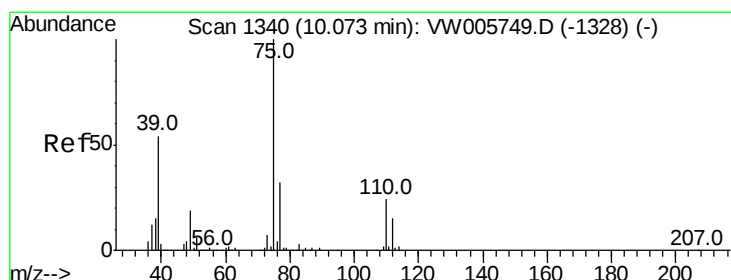
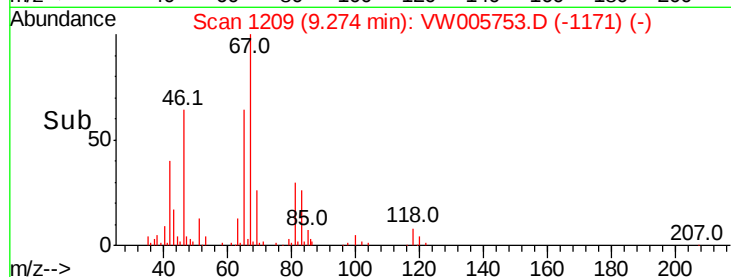
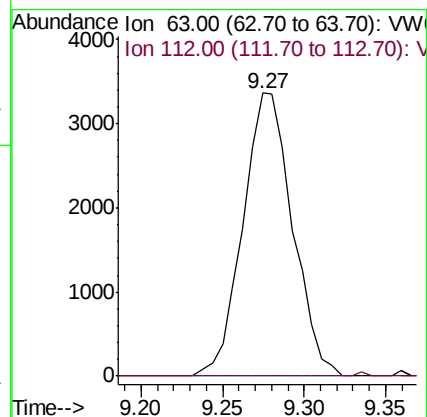
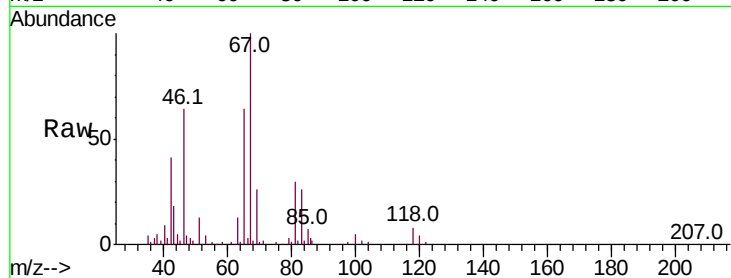
ClientSampleId :

Tot Ion: 63 Resp: 7137

Ion Ratio Lower Upper

63 100

112 2.6 3.4 5.2#



#42

cis-1,3-Dichloropropene

Concen: 0.676 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.04 min

Lab File: VW005753.D

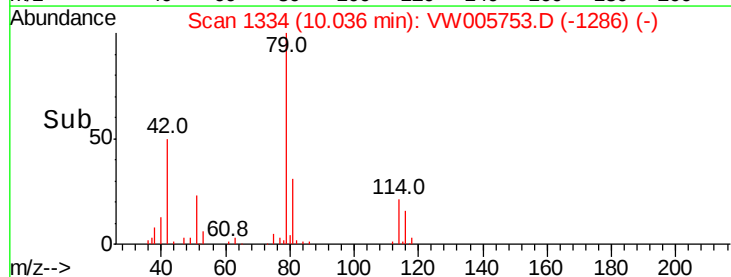
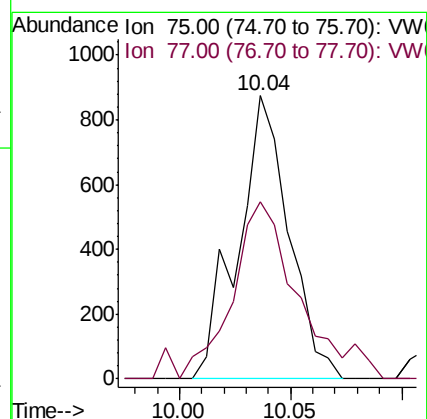
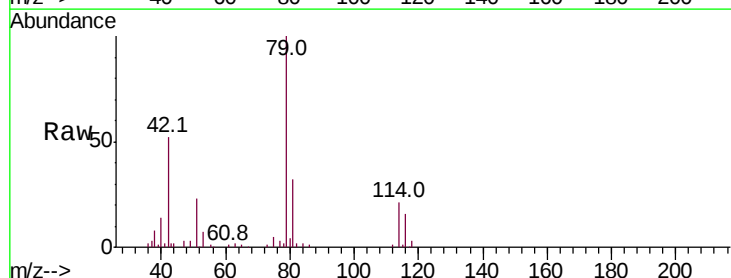
Acq: 02 Oct 2018 00:13

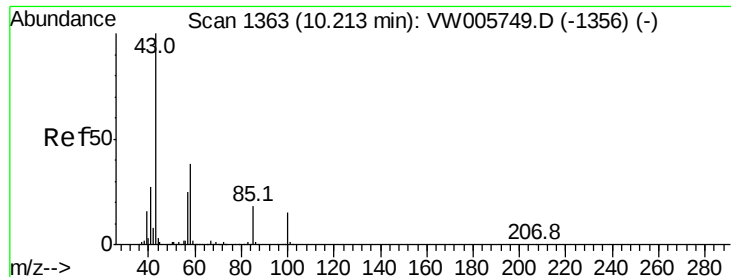
Tgt Ion: 75 Resp: 1399

Ion Ratio Lower Upper

75 100

77 62.5 22.3 41.3#

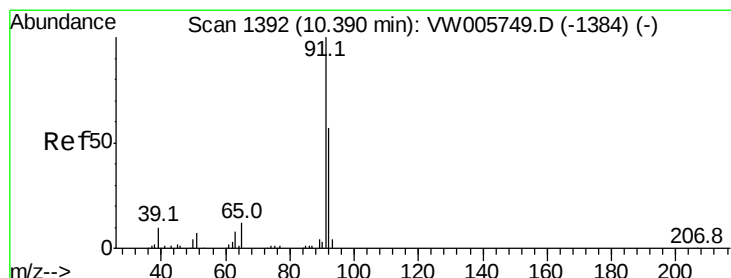
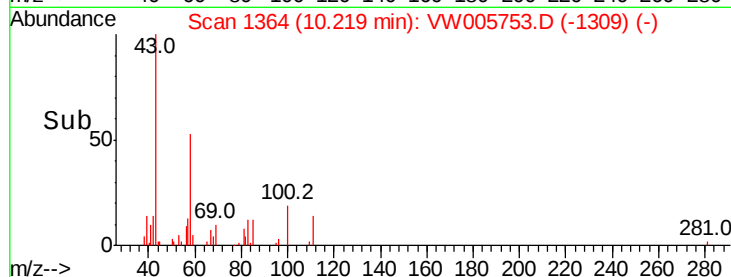
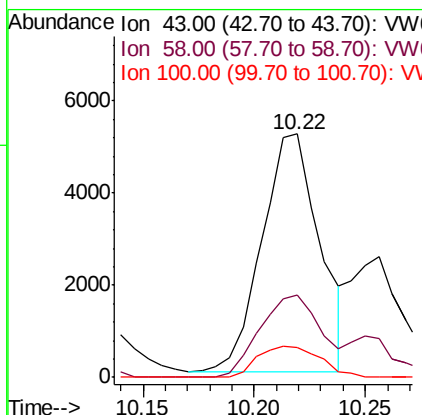
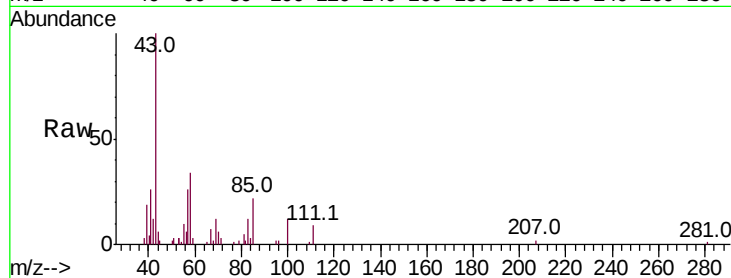




#43
4-Methyl-2-pentanone
Concen: 9.097 ug/L
RT: 10.22 min Scan# 1364
Delta R.T. 0.01 min
Lab File: VW005753.D
Acq: 02 Oct 2018 00:13

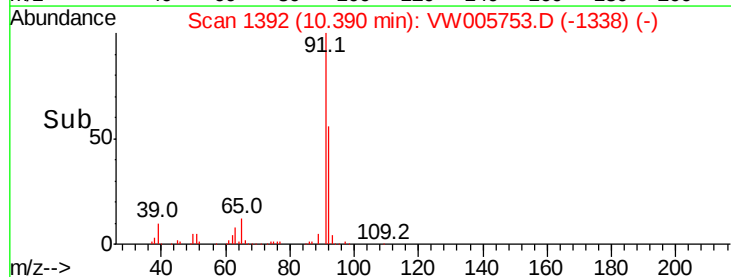
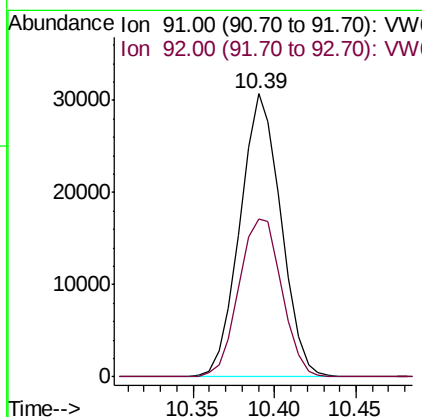
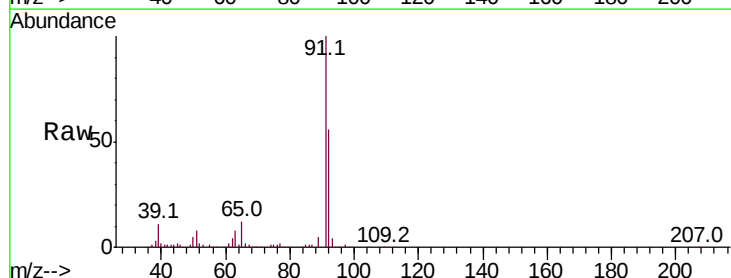
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MSVOA_W
ClientSampleId :

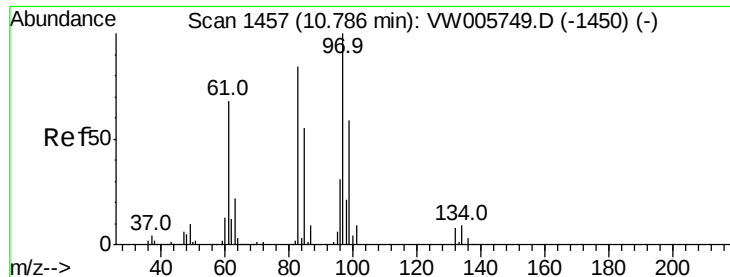
Tot Ion: 43 Resp: 9302
Ion Ratio Lower Upper
43 100
58 36.6 29.8 44.8
100 14.1 12.2 18.4



#44
Toluene
Concen: 9.328 ug/L
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW005753.D
Acq: 02 Oct 2018 00:13

Tgt Ion: 91 Resp: 53600
Ion Ratio Lower Upper
91 100
92 56.0 40.7 75.5

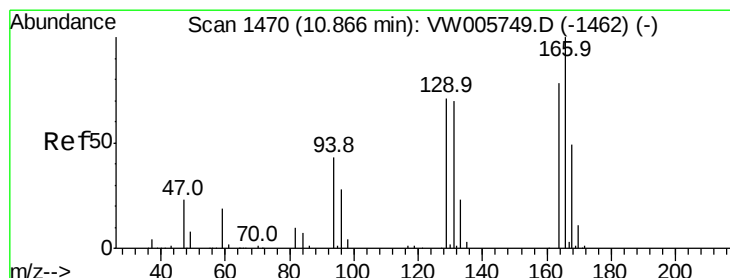
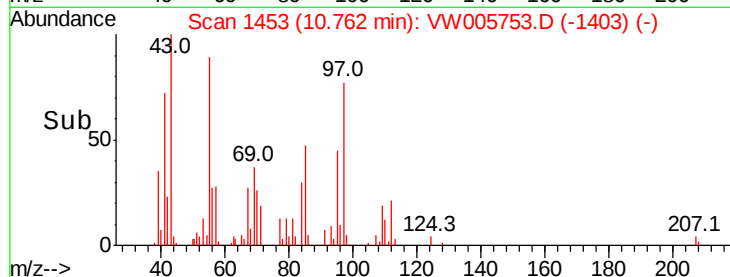
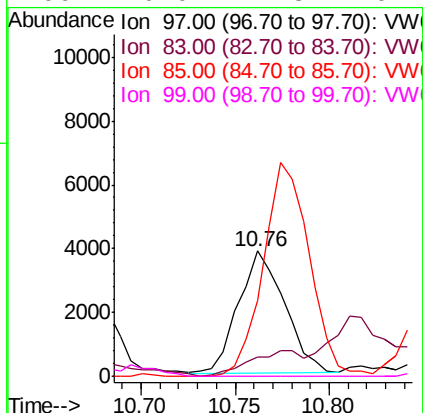
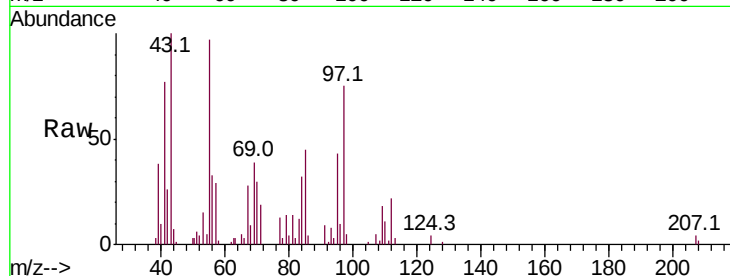




#46
1,1,2-Trichloroethane
Concen: 6.273 ug/L
RT: 10.76 min Scan# 1453
Delta R.T. -0.02 min
Lab File: VW005753.D
Acq: 02 Oct 2018 00:13

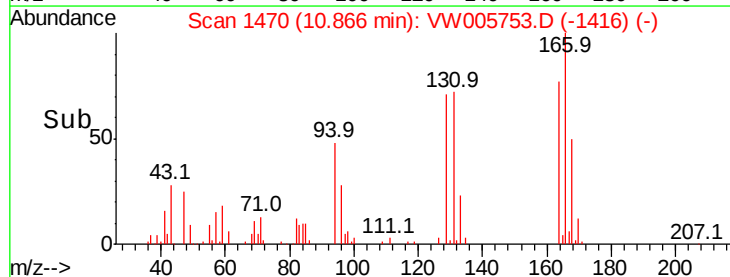
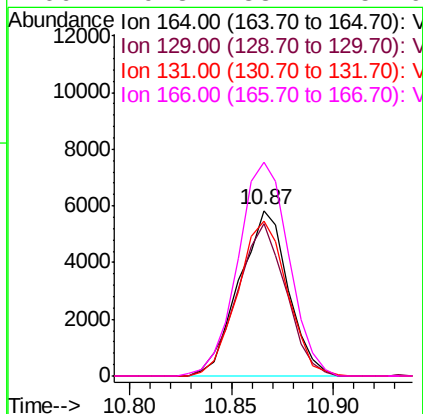
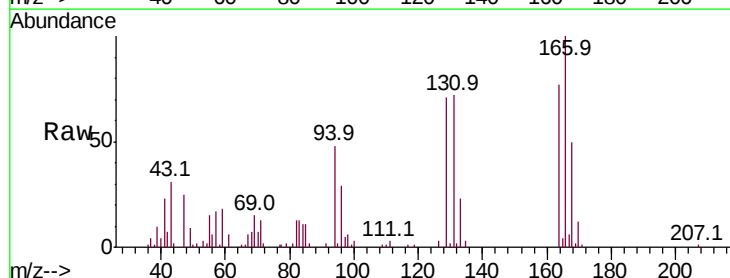
Instrument :
MSVOA_W
ClientSampled :

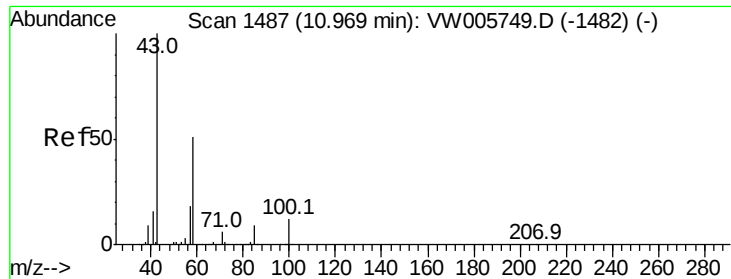
Tot Ion: 97 Resp: 6559
Ion Ratio Lower Upper
97 100
83 15.4 58.3 108.3#
85 60.3 38.0 70.6
99 0.0 42.8 79.4#



#47
Tetrachloroethene
Concen: 8.036 ug/L
RT: 10.87 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VW005753.D
Acq: 02 Oct 2018 00:13

Tgt Ion: 164 Resp: 9739
Ion Ratio Lower Upper
164 100
129 95.0 63.8 118.4
131 93.8 61.5 114.3
166 129.3 83.2 154.6

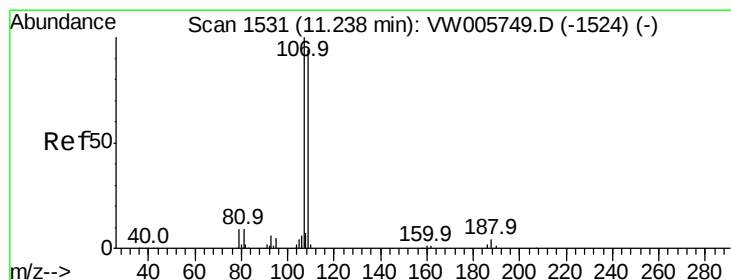
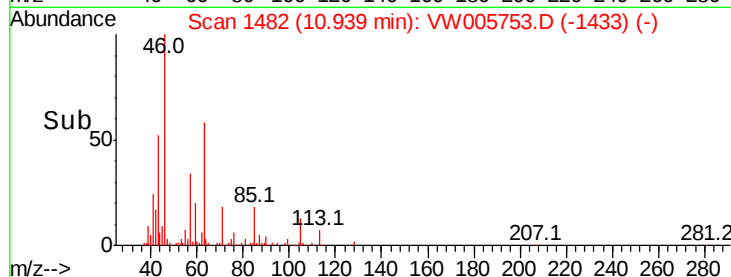
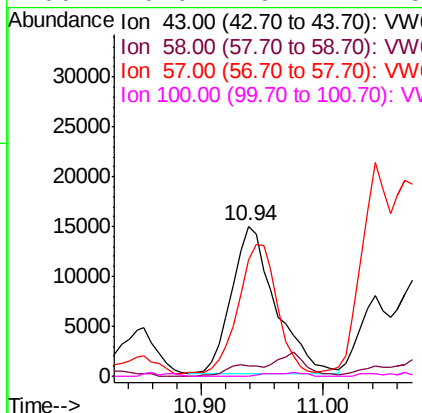
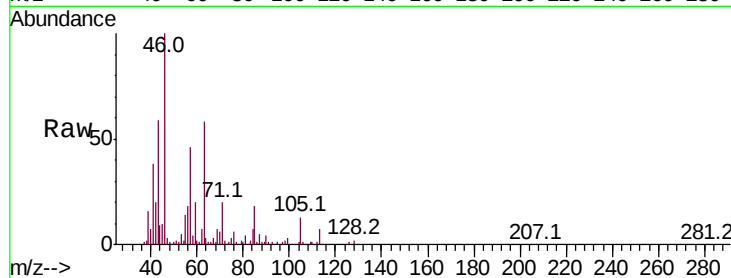




#49
2-Hexanone
Concen: 51.481 ug/L
RT: 10.94 min Scan# 1482
Delta R.T. -0.03 min
Lab File: VW005753.D
Acq: 02 Oct 2018 00:13

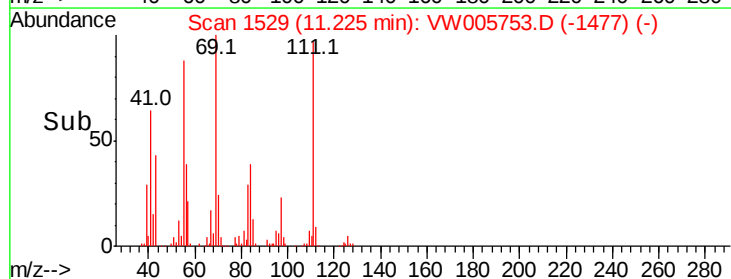
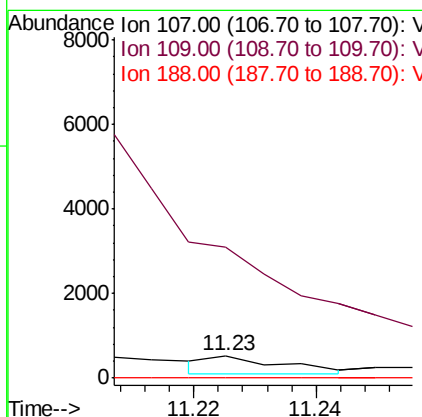
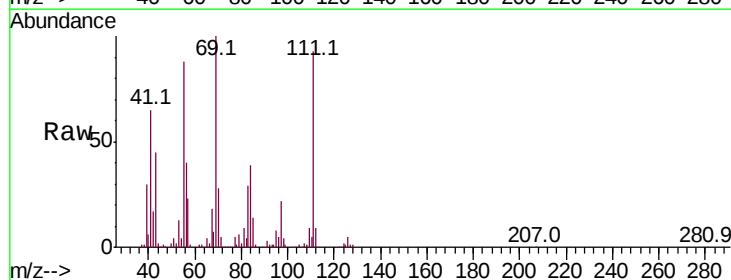
Instrument :
MSVOA_W
ClientSampleId :

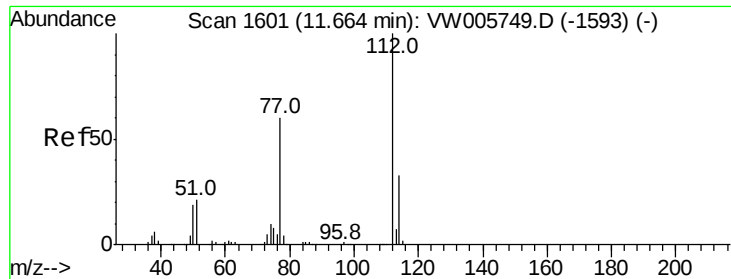
Tot Ion: 43 Resp: 36953
Ion Ratio Lower Upper
43 100
58 6.3 42.0 63.0#
57 75.0 15.7 23.5#
100 0.0 9.7 14.5#



#51
1,2-Dibromoethane
Concen: 0.368 ug/L
RT: 11.23 min Scan# 1529
Delta R.T. -0.01 min
Lab File: VW005753.D
Acq: 02 Oct 2018 00:13

Tgt Ion: 107 Resp: 372
Ion Ratio Lower Upper
107 100
109 591.3 70.1 130.3#
188 0.0 3.4 5.2#





#52

Chlorobenzene

Concen: 3.406 ug/L

RT: 11.88 min Scan# 1637

Delta R.T. 0.22 min

Lab File: VW005753.D

Acq: 02 Oct 2018 00:13

Instrument :

MSVOA_W

ClientSampleId :

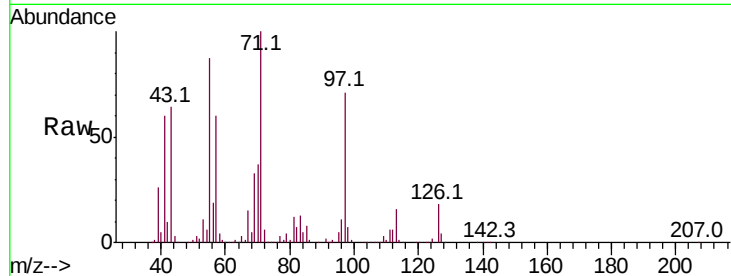
Tot Ion:112 Resp: 12875

Ion Ratio Lower Upper

112 100

77 60.5 46.7 70.1

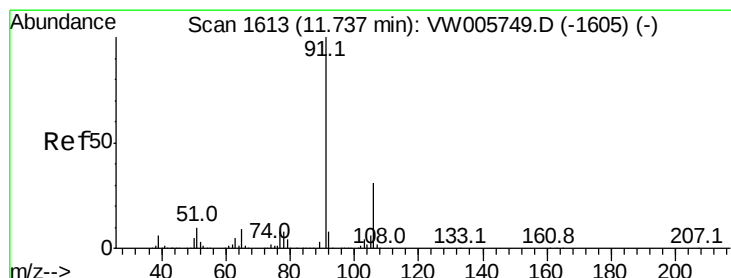
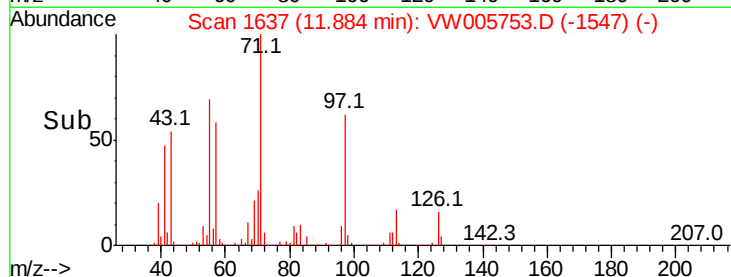
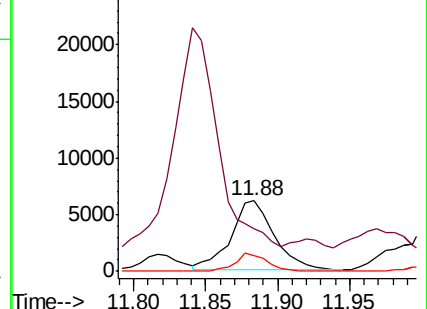
114 23.1 21.8 40.6



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 30.976 ug/L

RT: 11.74 min Scan# 1613

Delta R.T. -0.00 min

Lab File: VW005753.D

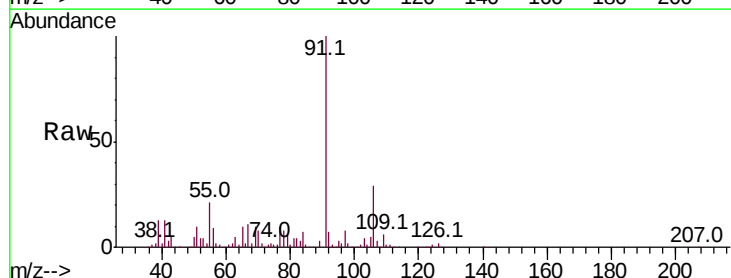
Acq: 02 Oct 2018 00:13

Tgt Ion: 91 Resp: 203790

Ion Ratio Lower Upper

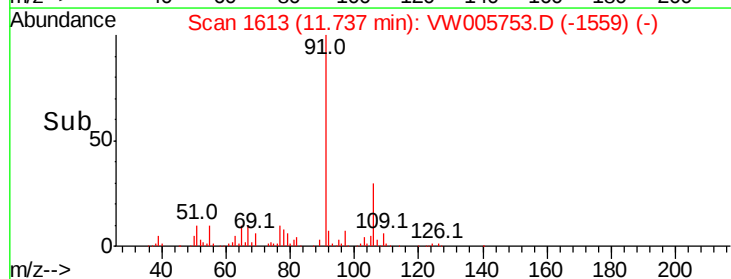
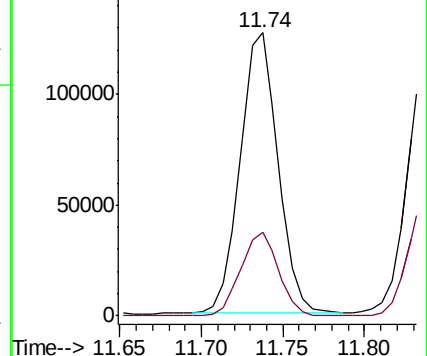
91 100

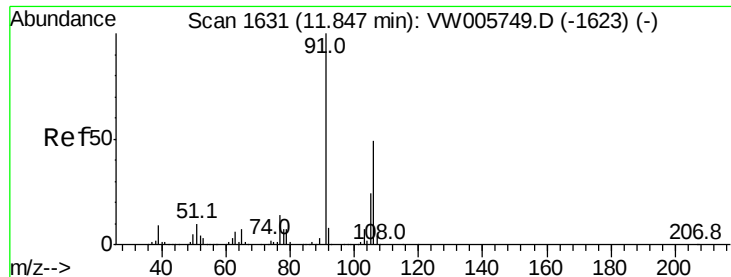
106 29.4 21.5 39.9



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 53.873 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.01 min

Lab File: VW005753.D

Acq: 02 Oct 2018 00:13

Instrument :

MSVOA_W

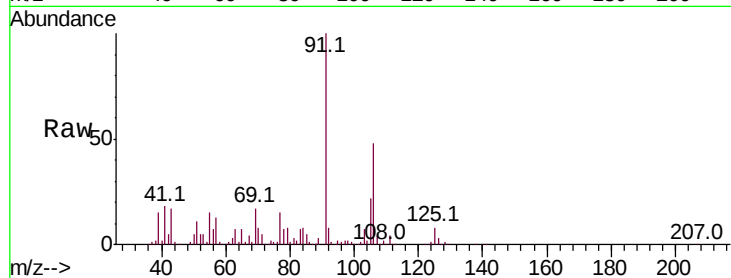
ClientSampleId :

Tot Ion:106 Resp: 133529

Ion Ratio Lower Upper

106 100

91 206.2 147.7 274.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

150000

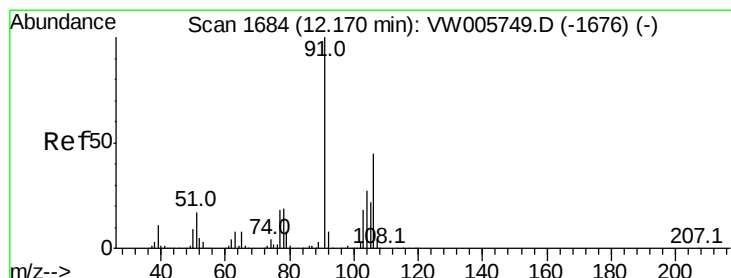
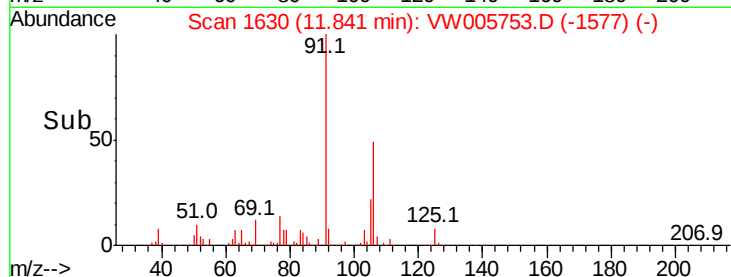
100000

50000

0

11.84

Time-->



#55

o-xylene

Concen: 51.866 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW005753.D

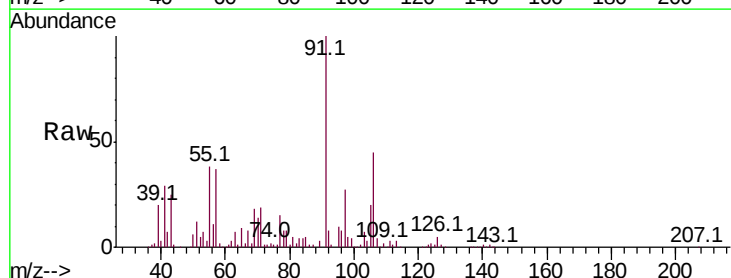
Acq: 02 Oct 2018 00:13

Tgt Ion:106 Resp: 121168

Ion Ratio Lower Upper

106 100

91 223.0 156.5 290.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

200000

150000

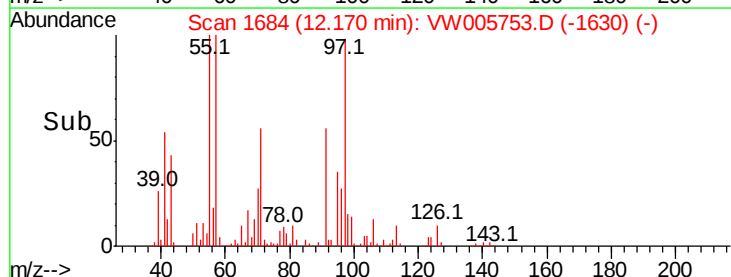
100000

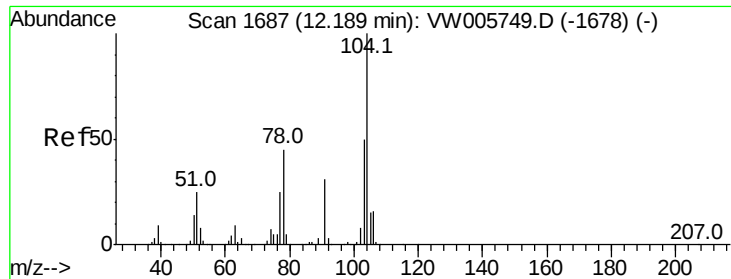
50000

0

12.17

Time-->





#56

Stvrene

Concen: 4.371 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.01 min

Lab File: VW005753.D

Acq: 02 Oct 2018 00:13

Instrument :

MSVOA_W

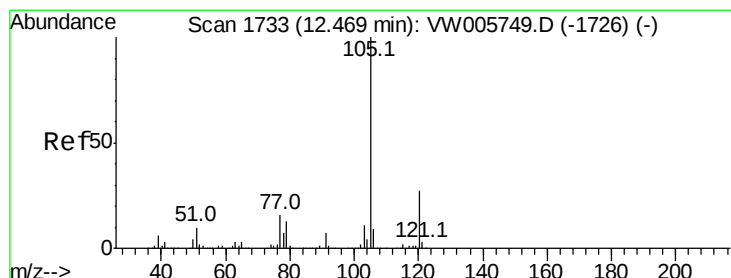
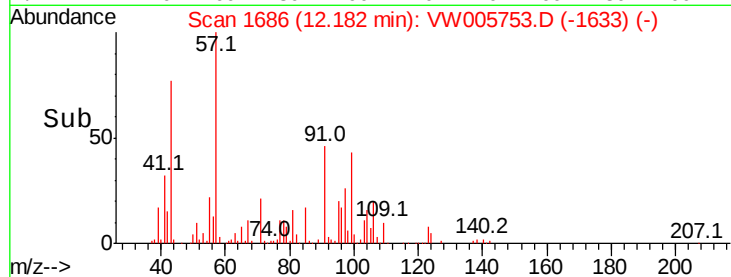
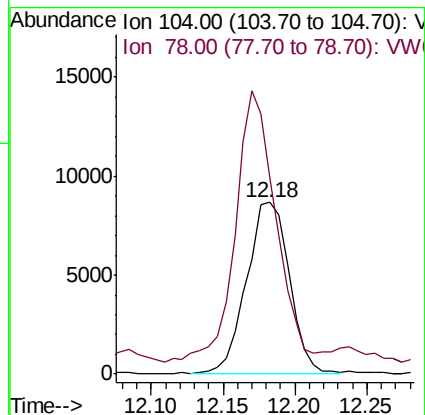
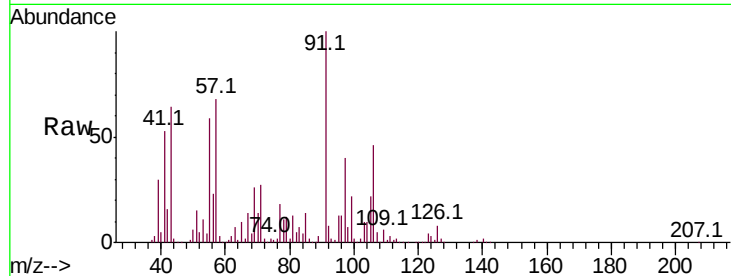
ClientSampleId :

Tot Ion:104 Resp: 17922

Ion Ratio Lower Upper

104 100

78 114.1 32.2 59.8#



#57

Isopropylbenzene

Concen: 18.002 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW005753.D

Acq: 02 Oct 2018 00:13

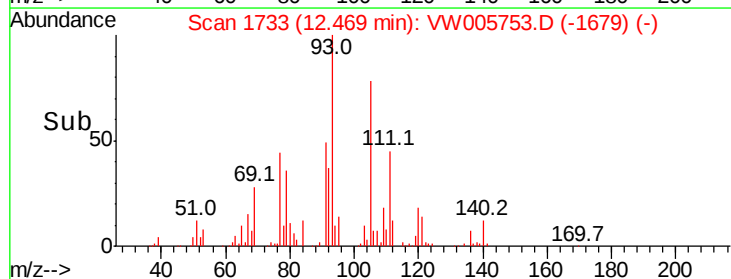
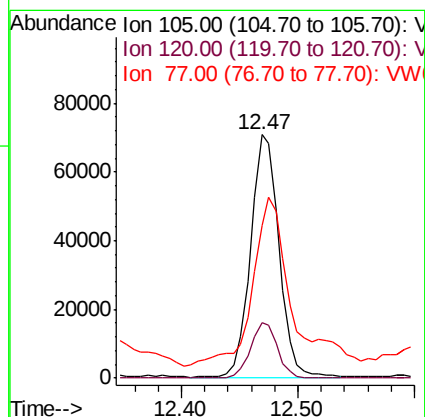
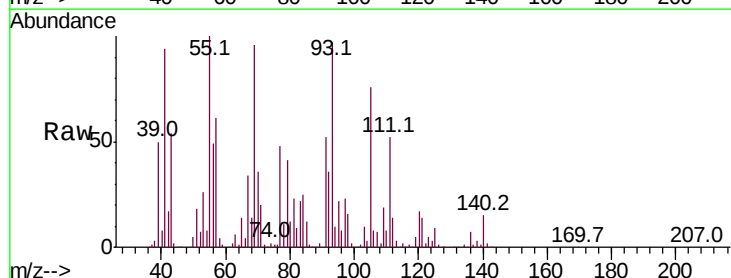
Tgt Ion:105 Resp: 120122

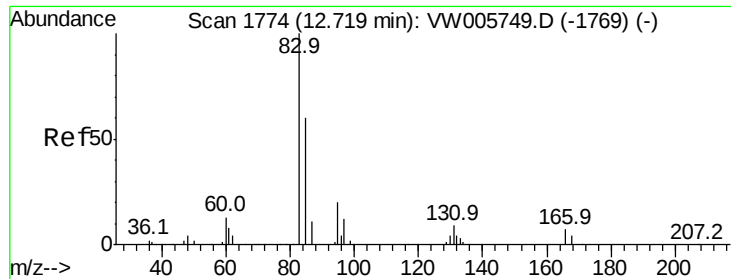
Ion Ratio Lower Upper

105 100

120 21.7 20.7 31.1

77 82.9 13.0 19.6#





#58

1,1,2,2-Tetrachloroethane

Concen: 24.458 ug/L

RT: 12.71 min Scan# 1772

Delta R.T. -0.01 min

Lab File: VW005753.D

Acq: 02 Oct 2018 00:13

Instrument :

MSVOA_W

ClientSampled :

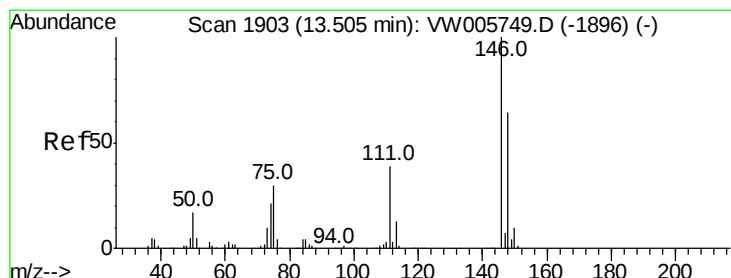
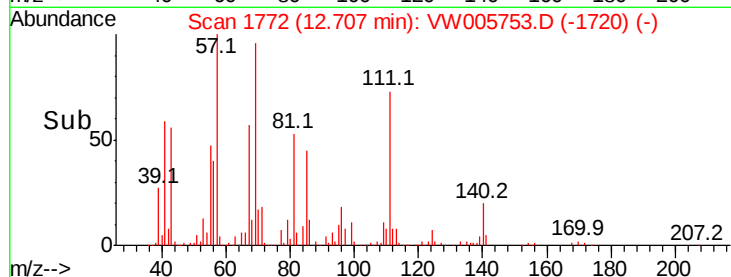
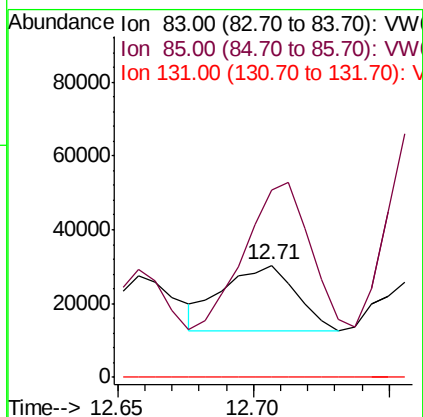
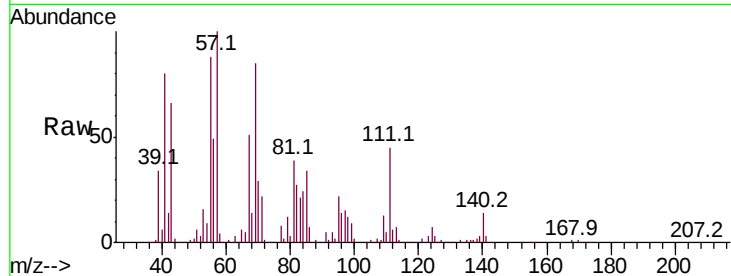
Tot Ion: 83 Resp: 32623

Ion Ratio Lower Upper

83 100

85 166.7 43.0 80.0#

131 0.8 8.0 12.0#



#63

1,3-Dichlorobenzene

Concen: 1.521 ug/L

RT: 13.51 min Scan# 1903

Delta R.T. -0.00 min

Lab File: VW005753.D

Acq: 02 Oct 2018 00:13

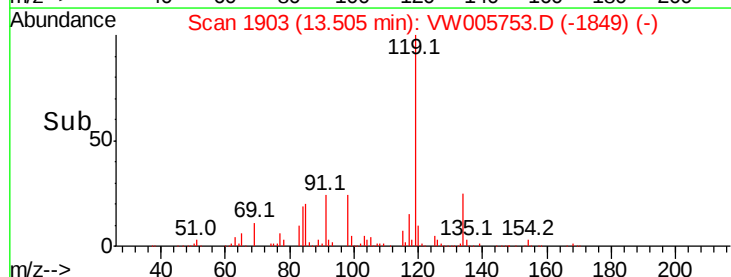
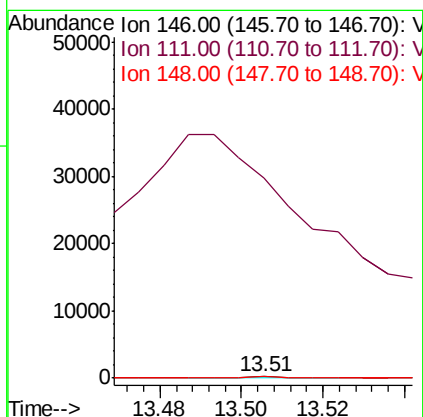
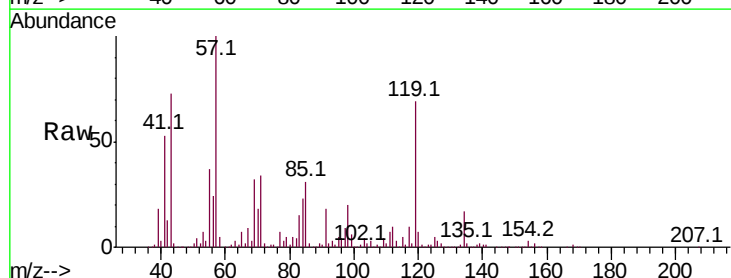
Tgt Ion: 146 Resp: 208

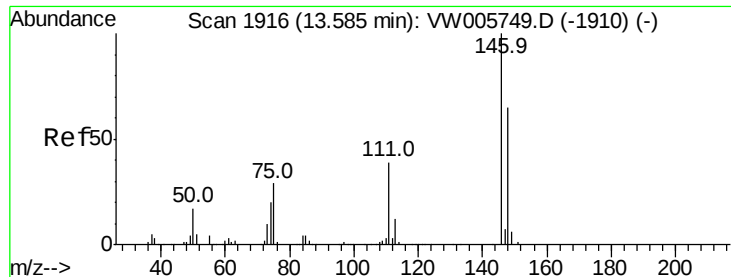
Ion Ratio Lower Upper

146 100

111 18375.3 27.2 50.6#

148 101.9 46.2 85.8#

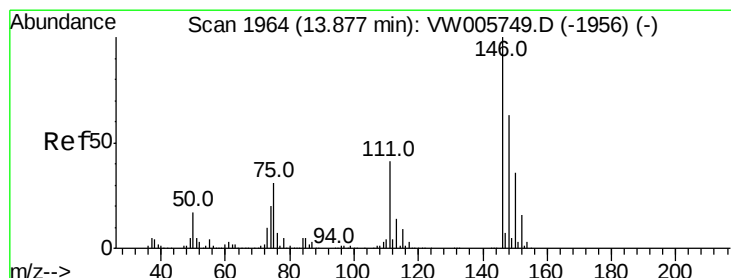
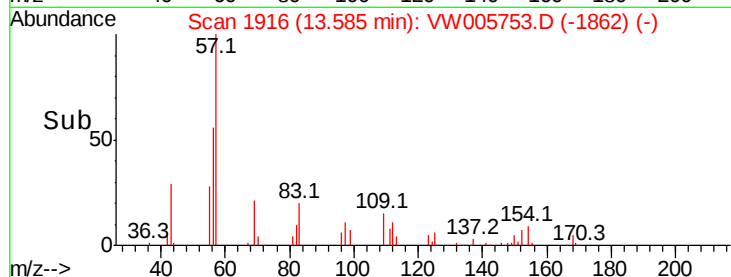
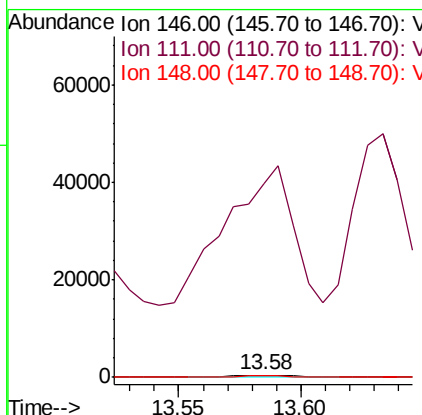
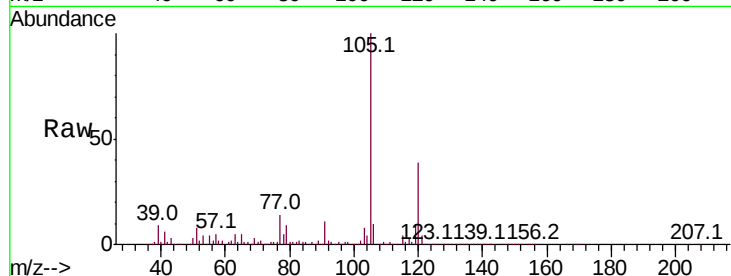




#64
1,4-Dichlorobenzene
Concen: 5.413 ug/L
RT: 13.58 min Scan# 1916
Delta R.T. -0.00 min
Lab File: VW005753.D
Acq: 02 Oct 2018 00:13

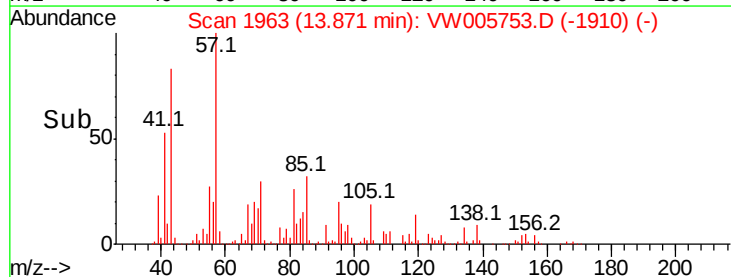
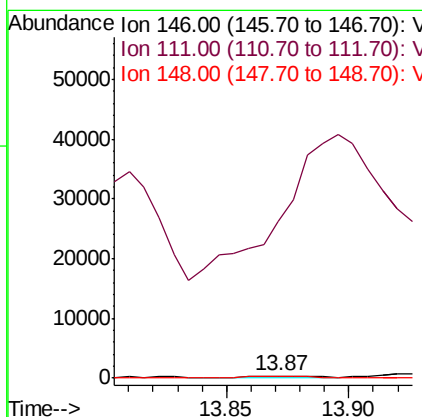
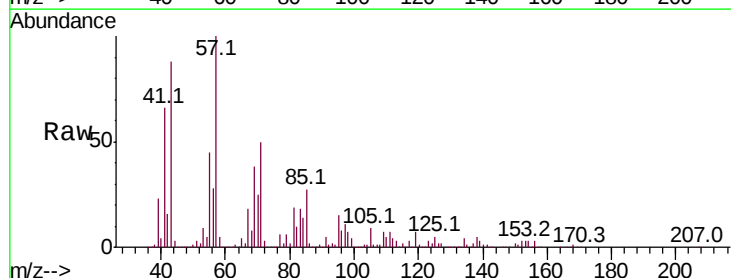
Instrument :
MSVOA_W
ClientSampleId :

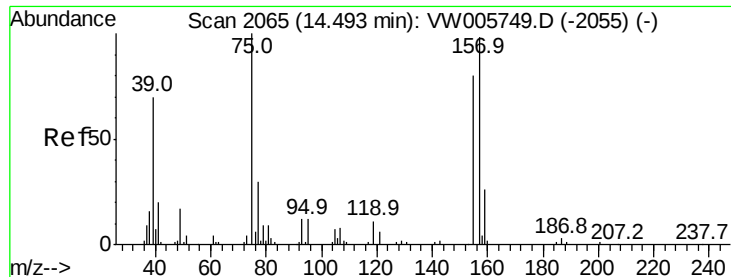
Tot Ion:146 Resp: 773
Ion Ratio Lower Upper
146 100
111 9412.3 28.4 52.8#
148 83.2 46.3 86.1



#65
1,2-Dichlorobenzene
Concen: 5.502 ug/L
RT: 13.87 min Scan# 1963
Delta R.T. -0.01 min
Lab File: VW005753.D
Acq: 02 Oct 2018 00:13

Tgt Ion:146 Resp: 724
Ion Ratio Lower Upper
146 100
111 9137.3 34.6 51.8#
148 93.4 51.5 77.3#





#66

1,2-Dibromo-3-chloropropane

Concen: 5209.660 ug/L

RT: 14.51 min Scan# 2068

Delta R.T. 0.02 min

Lab File: VW005753.D

Acq: 02 Oct 2018 00:13

Instrument :

MSVOA_W

ClientSampleId :

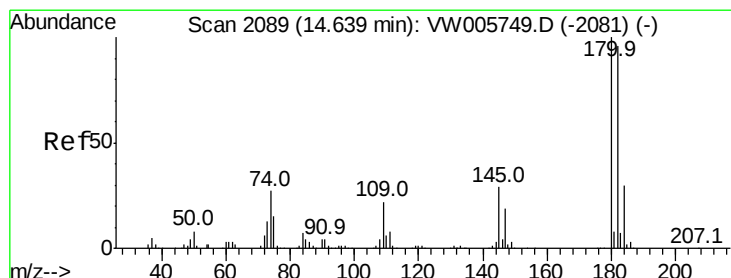
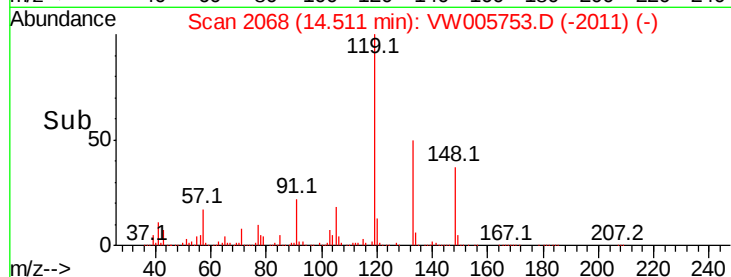
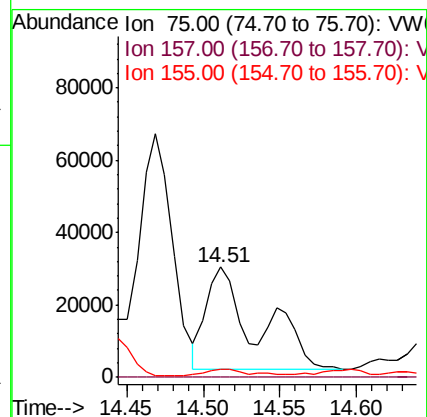
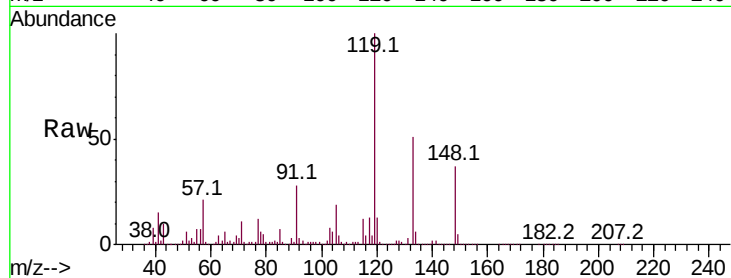
Tot Ion: 75 Resp: 65183

Ion Ratio Lower Upper

75 100

157 0.0 76.9 115.3#

155 7.1 64.2 96.2#



#67

1,3,5-Trichlorobenzene

Concen: 0.481 ug/L

RT: 14.63 min Scan# 2087

Delta R.T. -0.01 min

Lab File: VW005753.D

Acq: 02 Oct 2018 00:13

Tgt Ion: 180 Resp: 54

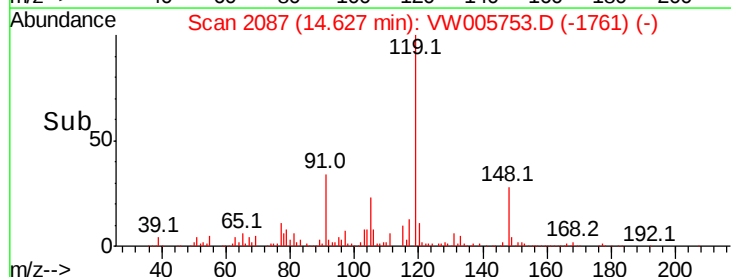
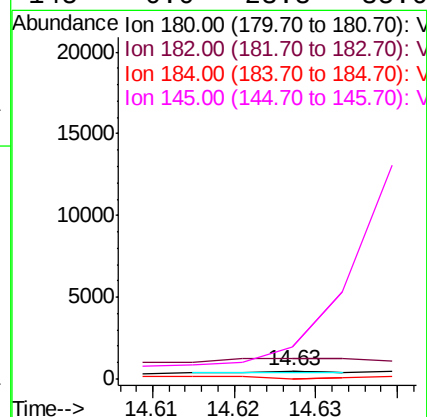
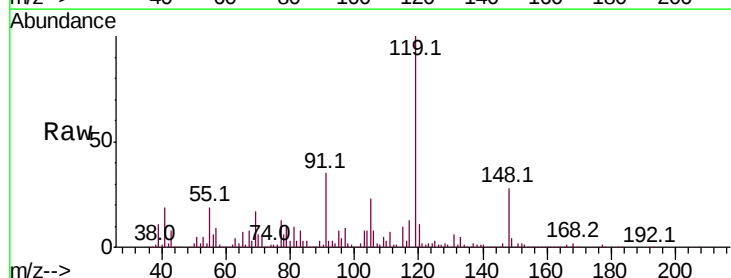
Ion Ratio Lower Upper

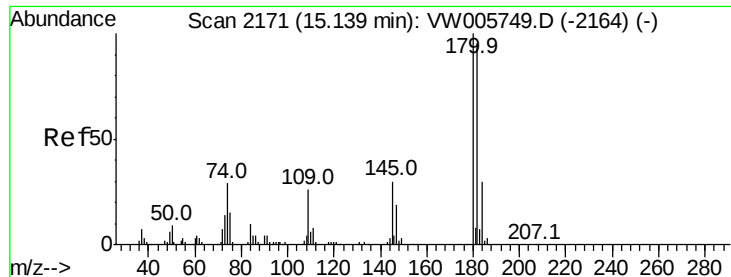
180 100

182 537.0 77.7 116.5#

184 229.6 24.6 37.0#

145 0.0 23.8 35.6#



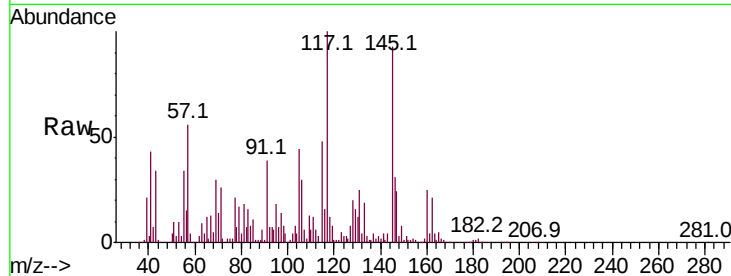


#68

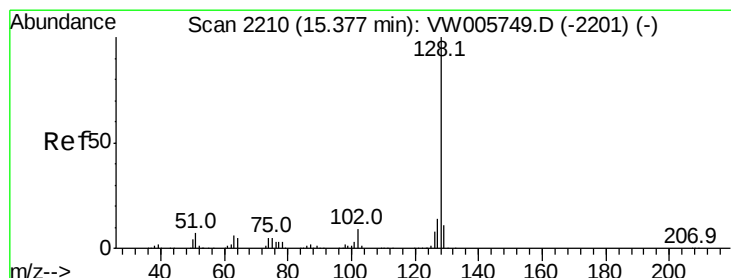
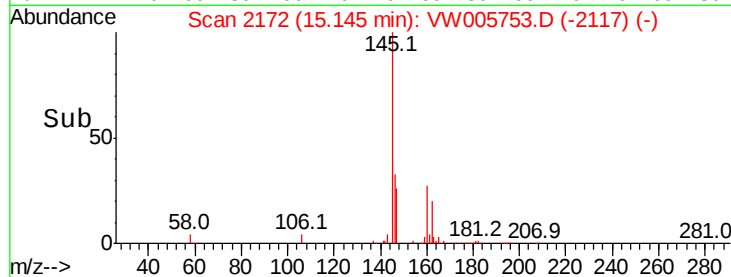
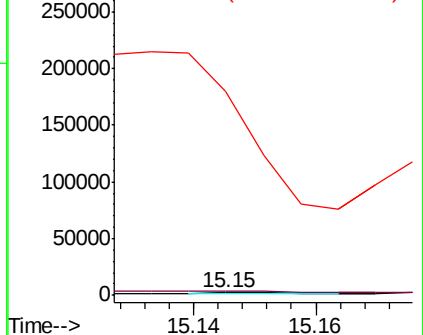
1,2,4-trichlorobenzene
Concen: 8.102 ug/L
RT: 15.15 min Scan# 2172
Delta R.T. 0.01 min
Lab File: VW005753.D
Acq: 02 Oct 2018 00:13

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:180 Resp: 747
Ion Ratio Lower Upper
180 100
182 0.0 75.8 113.6#
145 0.0 23.8 35.6#



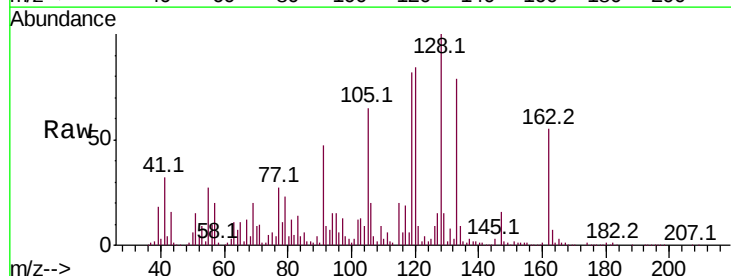
Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V



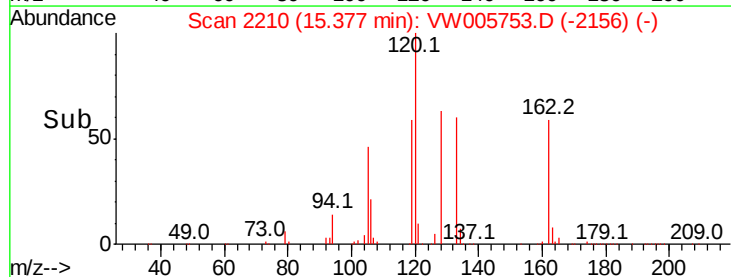
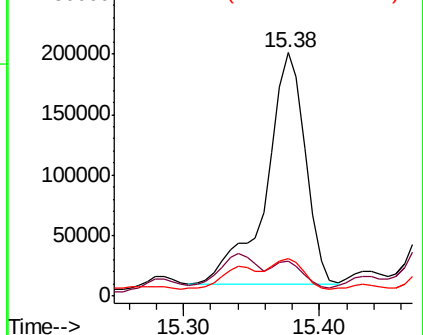
#69

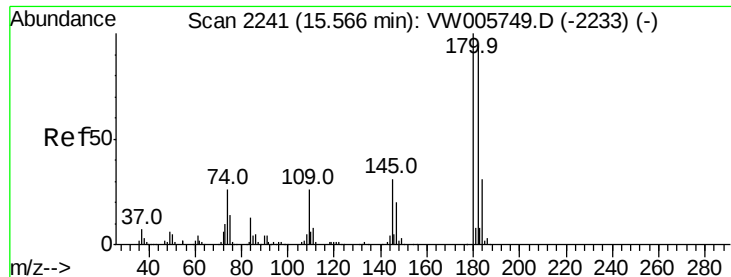
Naphthalene
Concen: 2070.470 ug/L
RT: 15.38 min Scan# 2210
Delta R.T. -0.00 min
Lab File: VW005753.D
Acq: 02 Oct 2018 00:13

Tgt Ion:128 Resp: 382518
Ion Ratio Lower Upper
128 100
129 8.7 8.8 13.2#
127 10.7 11.0 16.4#



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

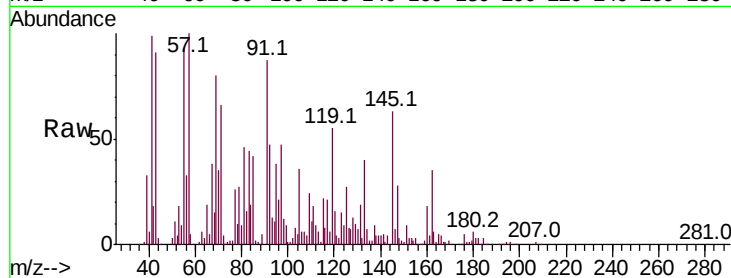




#70
 1,2,3-Trichlorobenzene
 Concen: 35.990 ug/L
 RT: 15.59 min Scan# 2245
 Delta R.T. 0.02 min
 Lab File: VW005753.D
 Acq: 02 Oct 2018 00:13

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:180 Resp: 3110
 Ion Ratio Lower Upper
 180 100
 182 77.9 76.8 115.2
 145 0.0 25.5 38.3#



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

