

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW083019\
 Data File : VW012349.D
 Acq On : 30 Aug 2019 14:51
 Operator : SY/VA
 Sample : K4620-04
 Misc : 5.42G/5ML/MSVOA W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 30 15:52:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

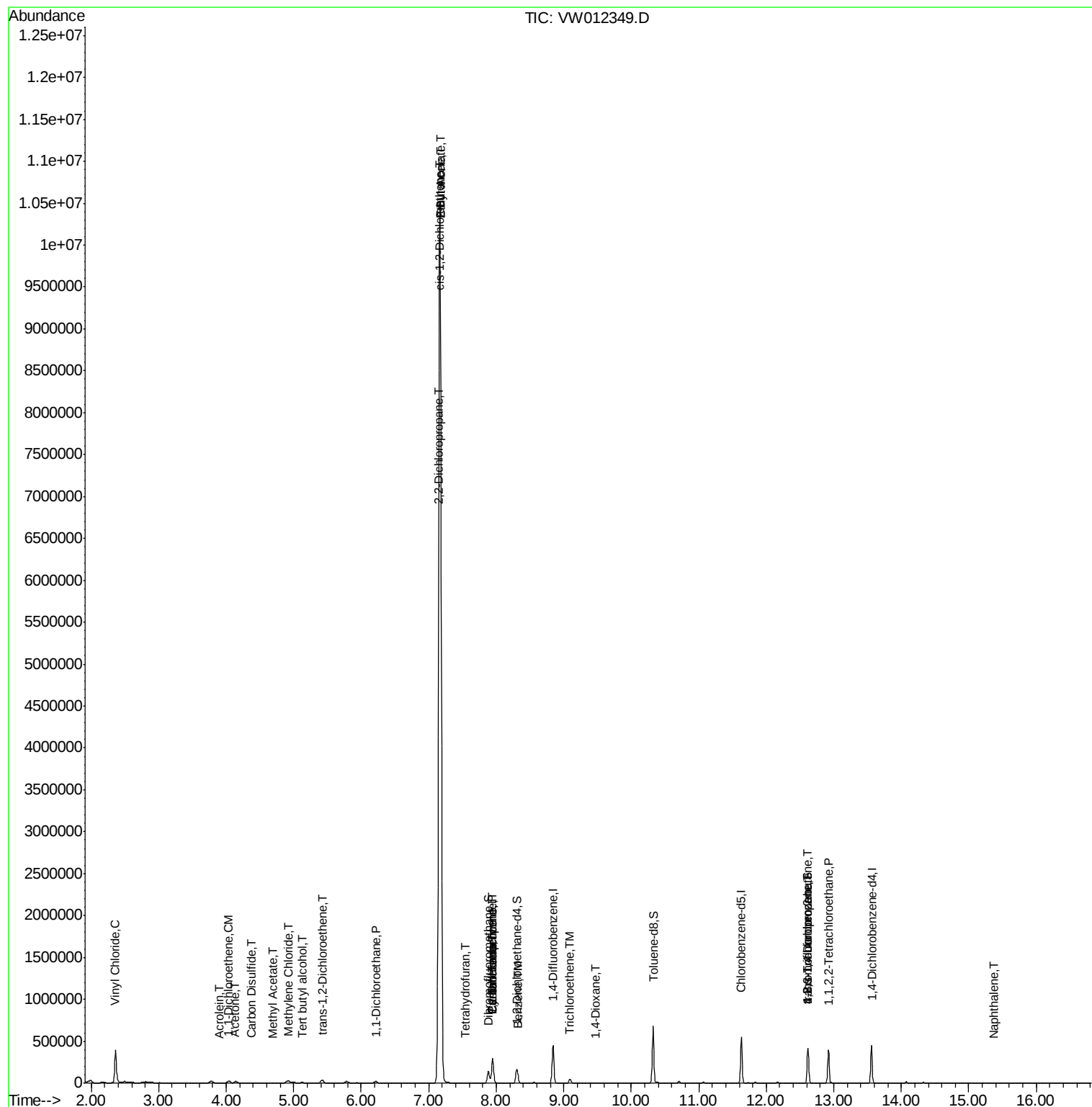
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	210614	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	349441	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	287744	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	113420	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	131075	52.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.70%	
35) Dibromofluoromethane	7.88	113	104898	50.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.58%	
50) Toluene-d8	10.32	98	423633	50.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.18%	
62) 4-Bromofluorobenzene	12.62	95	132936	44.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.18%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.36	62	447840	182.113	ug/l	99
11) Tert butyl alcohol	5.13	59	6244	41.441	ug/l #	71
12) 1,1-Dichloroethene	4.03	96	14553	6.889	ug/l	99
13) Acrolein	3.90	56	461	3.250	ug/l #	76
16) Acetone	4.14	43	42089	65.765	ug/l	98
17) Carbon Disulfide	4.37	76	9393	1.471	ug/l	99
18) Methyl Acetate	4.68	43	1831	1.155	ug/l #	75
20) Methylene Chloride	4.91	84	21551	8.907	ug/l	91
21) trans-1,2-Dichloroethene	5.42	96	21395	9.444	ug/l	93
24) 1,1-Dichloroethane	6.21	63	27350	6.000	ug/l	99
25) 2-Butanone	7.18	43	21246	24.430	ug/l #	1
26) 2,2-Dichloropropane	7.14	77	2745	1.064	ug/l #	54
27) cis-1,2-Dichloroethene	7.17	96	5979160	2470.342	ug/l	92
29) Tetrahydrofuran	7.54	42	1608	3.082	ug/l #	85
31) Cyclohexane	7.95	56	5705	1.265	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	18347	5.081	ug/l #	51
37) Ethyl Acetate	7.18	43	21246	10.737	ug/l #	1
38) Carbon Tetrachloride	7.95	117	21454	6.864	ug/l #	16
40) Benzene	8.32	78	11212	1.137	ug/l	97
44) Trichloroethene	9.09	130	16527	6.895	ug/l	94
49) 1,4-Dioxane	9.48	88	48	2.656	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.92	83	8575	5.504	ug/l #	31
76) 1,2,3-Trichloropropane	12.62	75	70677	63.983	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	70677	140.284	ug/l #	6
95) Naphthalene	15.36	128	238	4.372	ug/l #	80

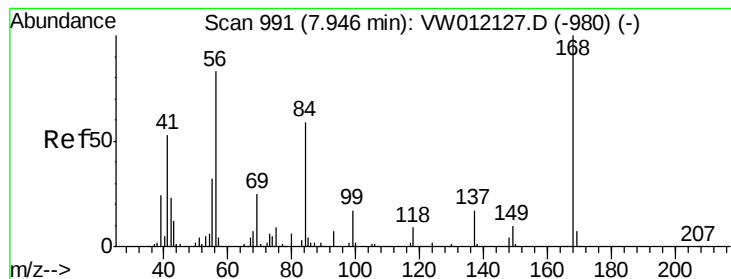
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012349.D

Acq: 30 Aug 2019 14:51

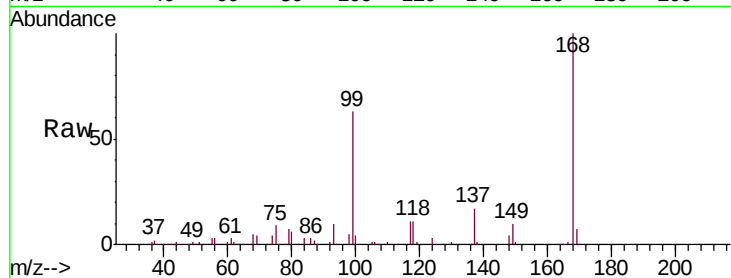
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 210614

Ion Ratio Lower Upper

168 100

99 63.5 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

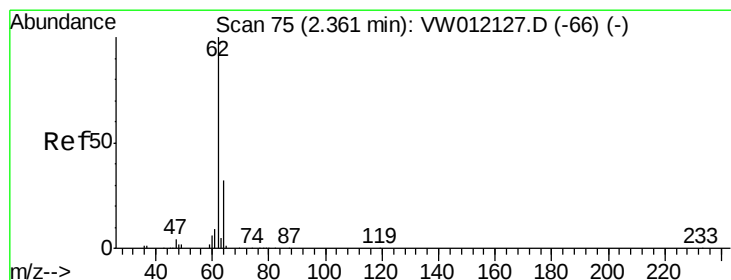
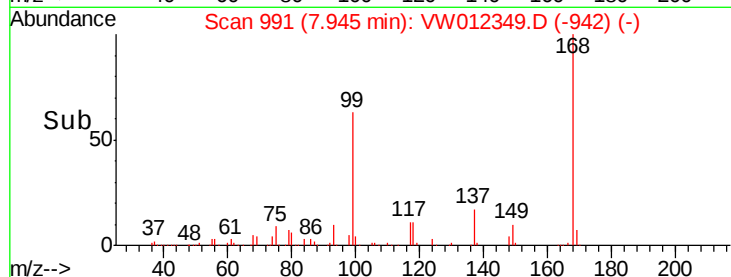
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#4

Vinyl Chloride

Concen: 182.113 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW012349.D

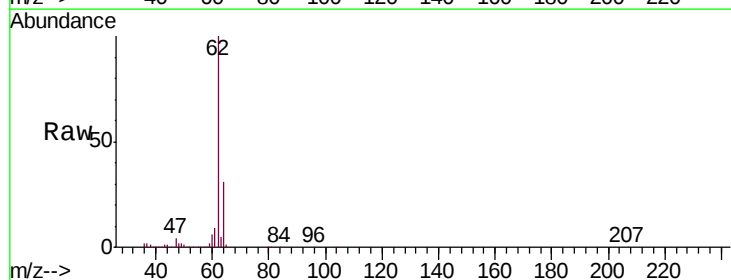
Acq: 30 Aug 2019 14:51

Tgt Ion: 62 Resp: 447840

Ion Ratio Lower Upper

62 100

64 31.2 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW

2.36

250000

200000

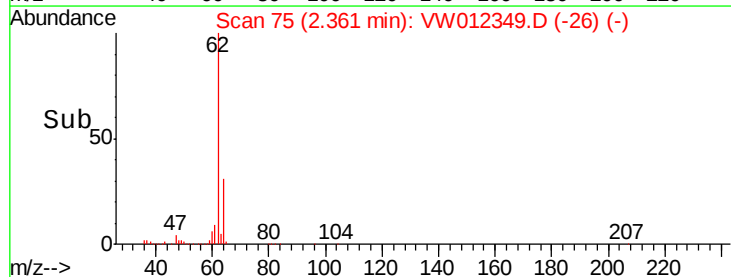
150000

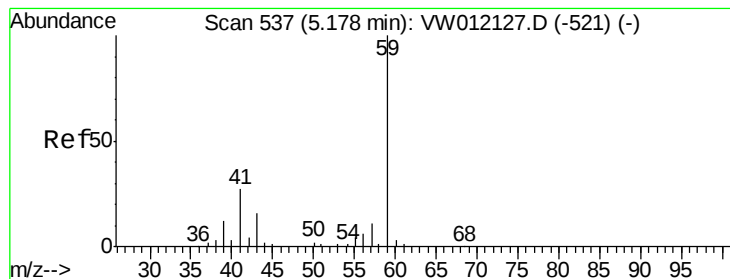
100000

50000

0

Time--> 2.20 2.30 2.40 2.50



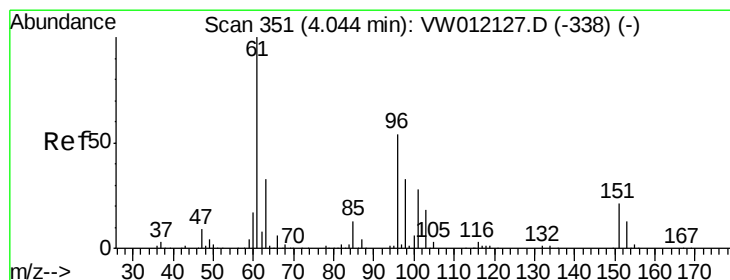
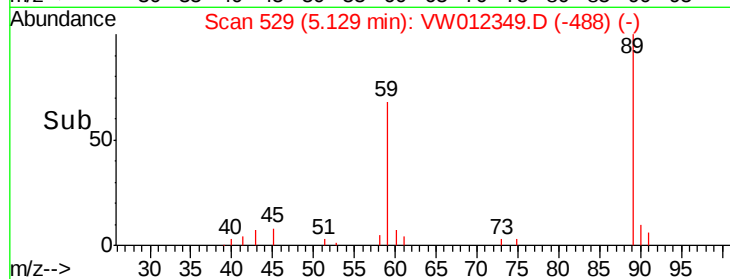
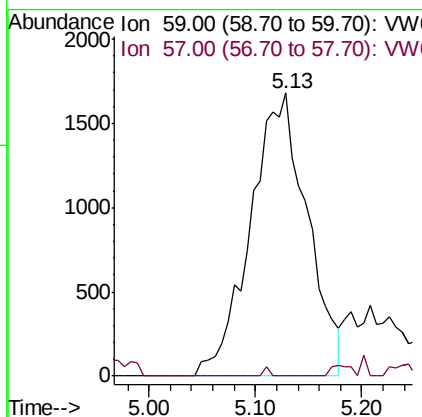
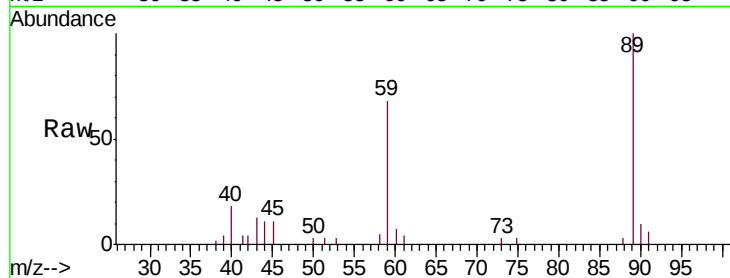


#11

Tert butyl alcohol
 Concen: 41.441 ug/l
 RT: 5.13 min Scan# 529
 Delta R.T. -0.05 min
 Lab File: VW012349.D
 Acq: 30 Aug 2019 14:51

Instrument :
 MSVOA_W
 ClientSampleId :

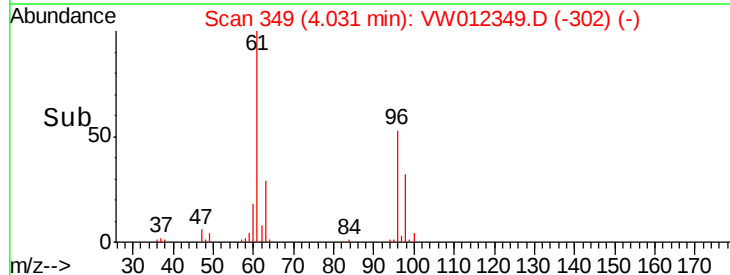
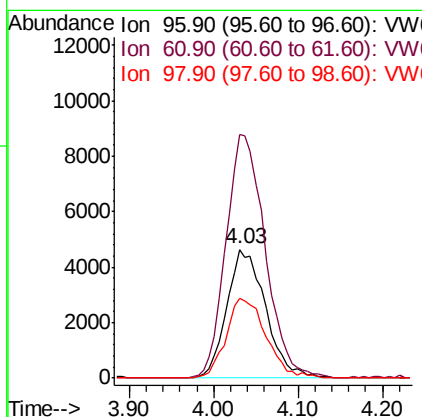
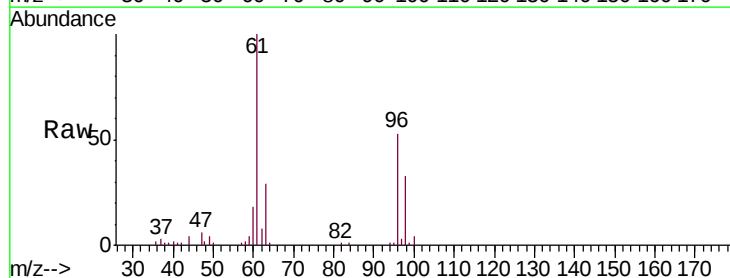
Tot Ion: 59 Resp: 6244
 Ion Ratio Lower Upper
 59 100
 57 0.3 9.0 13.4#

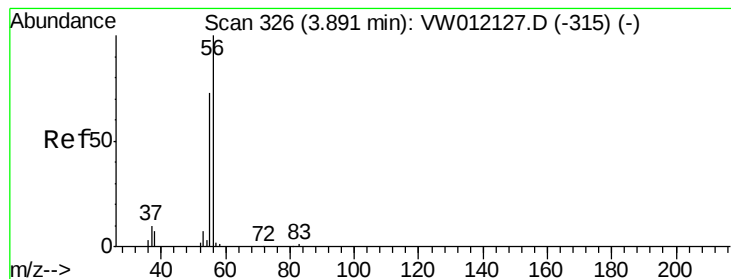


#12

1,1-Dichloroethene
 Concen: 6.889 ug/l
 RT: 4.03 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VW012349.D
 Acq: 30 Aug 2019 14:51

Tgt Ion: 96 Resp: 14553
 Ion Ratio Lower Upper
 96 100
 61 188.9 149.1 223.7
 98 62.1 49.4 74.2





#13

Acrolein

Concen: 3.250 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW012349.D

Acq: 30 Aug 2019 14:51

Instrument :

MSVOA_W

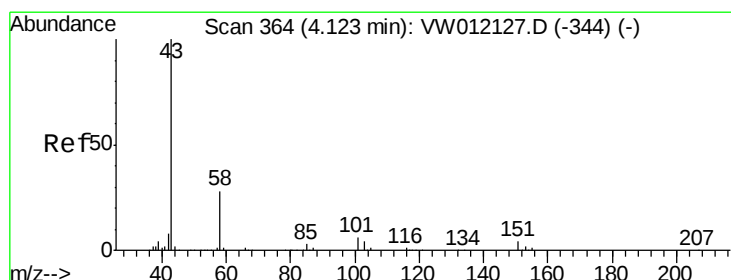
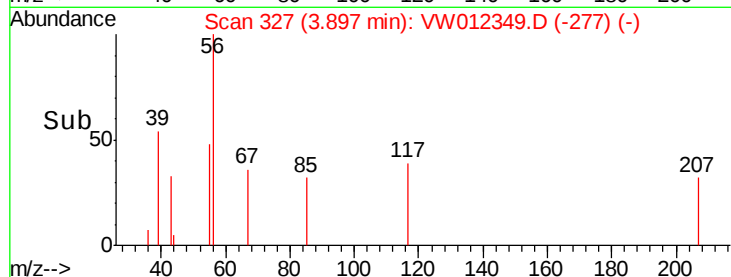
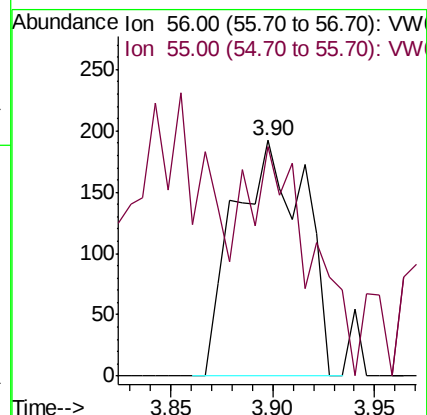
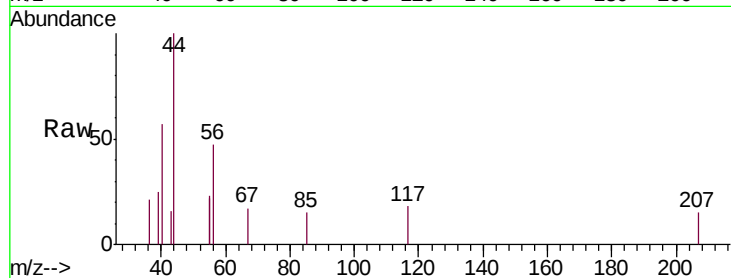
ClientSampled :

Tot Ion: 56 Resp: 461

Ion Ratio Lower Upper

56 100

55 89.6 55.8 83.8#



#16

Acetone

Concen: 65.765 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW012349.D

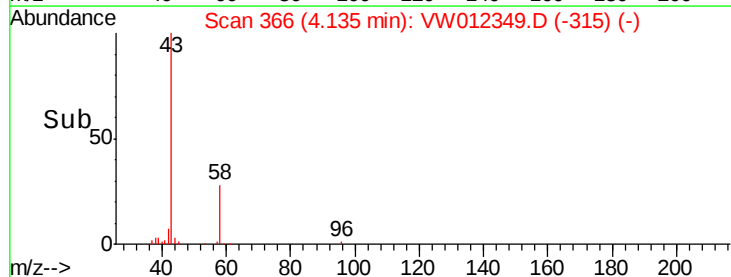
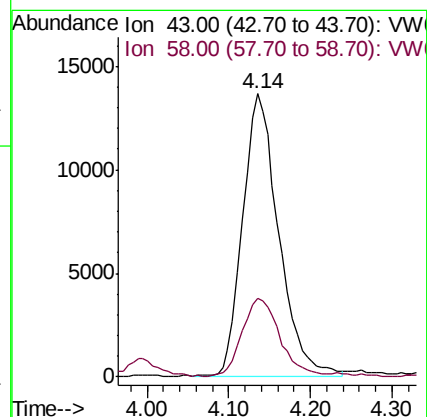
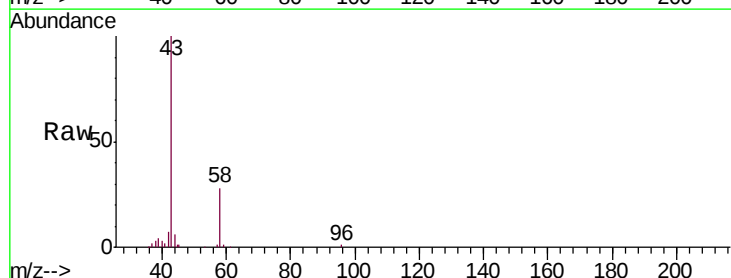
Acq: 30 Aug 2019 14:51

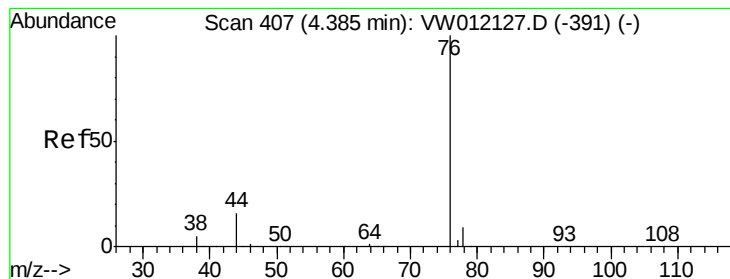
Tgt Ion: 43 Resp: 42089

Ion Ratio Lower Upper

43 100

58 27.2 22.4 33.6





#17

Carbon Disulfide

Concen: 1.471 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW012349.D

Acq: 30 Aug 2019 14:51

Instrument :

MSVOA_W

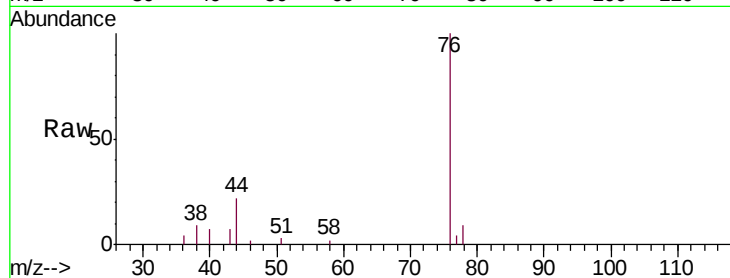
ClientSampleId :

Tot Ion: 76 Resp: 9393

Ion Ratio Lower Upper

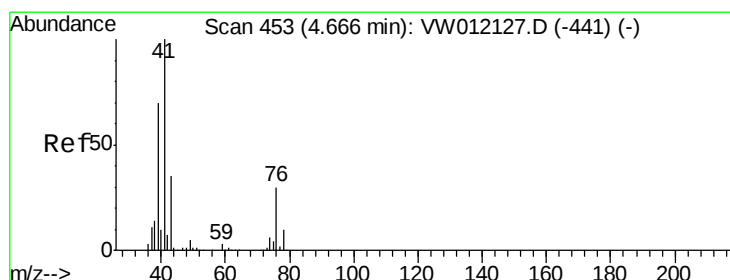
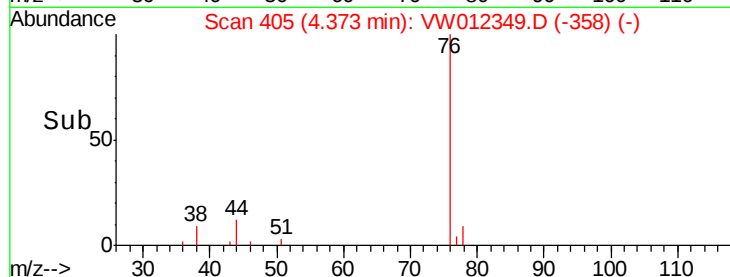
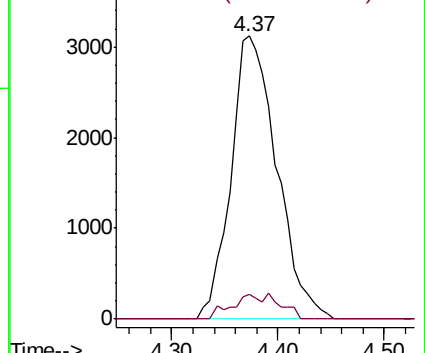
76 100

78 8.6 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 1.155 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW012349.D

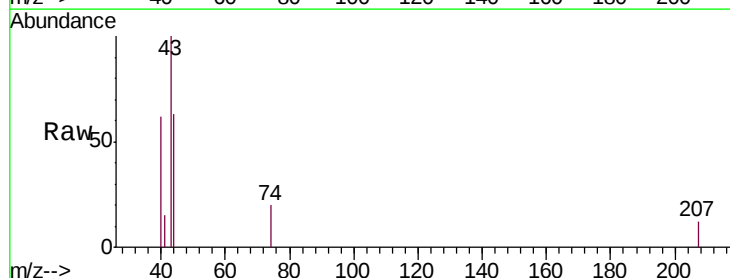
Acq: 30 Aug 2019 14:51

Tgt Ion: 43 Resp: 1831

Ion Ratio Lower Upper

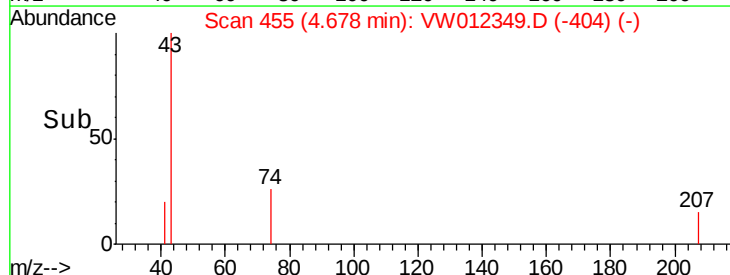
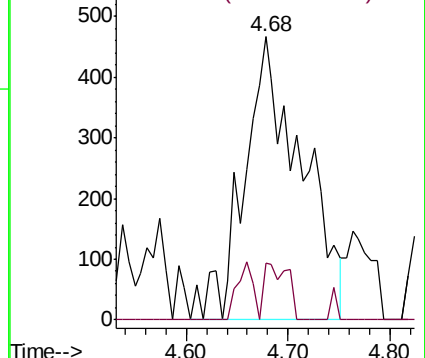
43 100

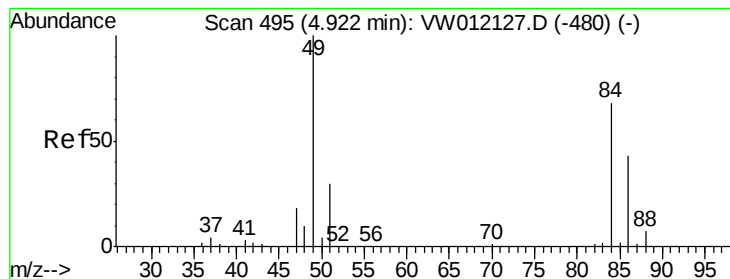
74 8.3 15.7 23.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW





#20

Methylene Chloride

Concen: 8.907 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012349.D

Acq: 30 Aug 2019 14:51

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 84 Resp: 21551

Ion	Ratio	Lower	Upper
84	100		
49	133.5	117.8	176.8
51	42.8	35.6	53.4
86	56.4	51.2	76.8

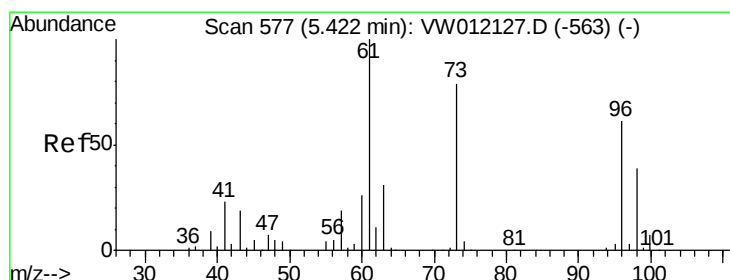
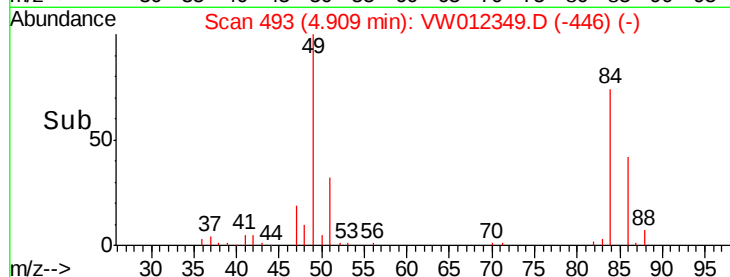
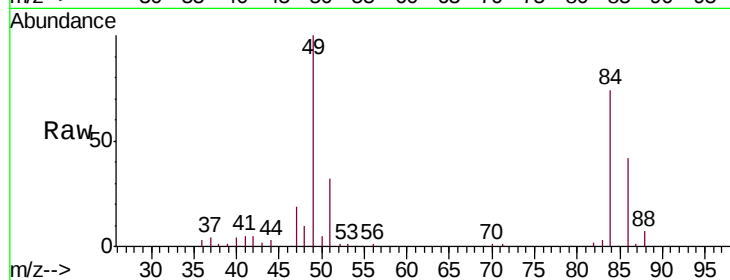
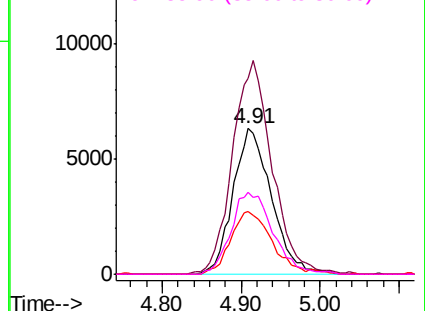
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#21

trans-1,2-Dichloroethene

Concen: 9.444 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW012349.D

Acq: 30 Aug 2019 14:51

Tgt Ion: 96 Resp: 21395

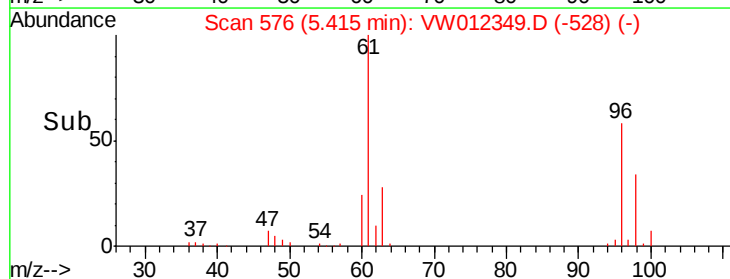
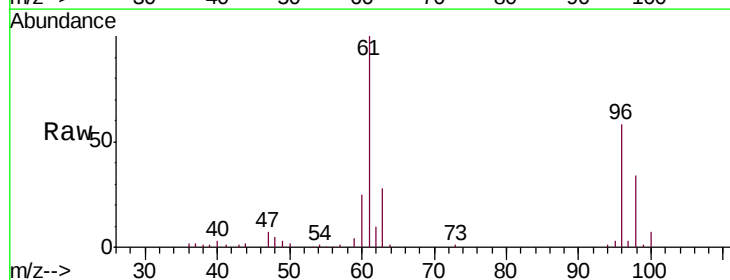
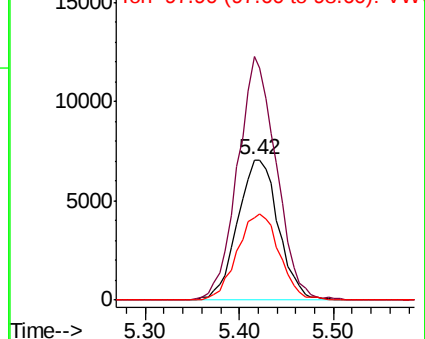
Ion	Ratio	Lower	Upper
96	100		
61	173.7	131.4	197.0
98	58.4	51.4	77.0

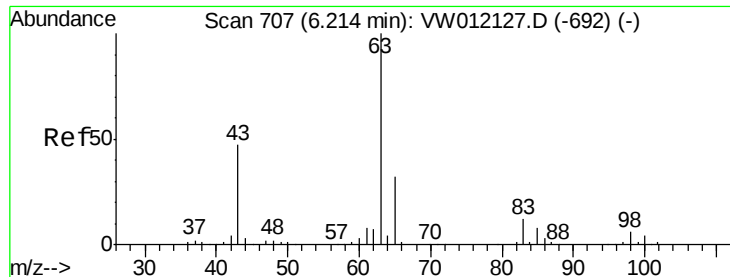
Abundance

Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW





#24

1,1-Dichloroethane

Concen: 6.000 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW012349.D

Acq: 30 Aug 2019 14:51

Instrument :

MSVOA_W

ClientSampleId :

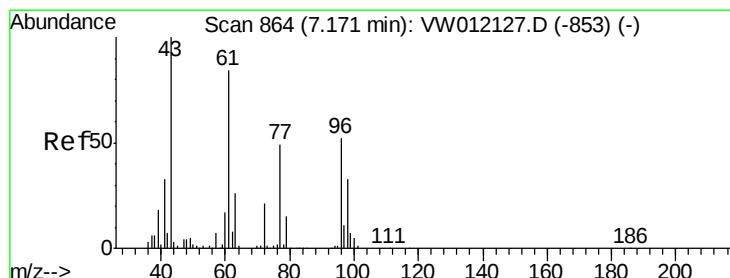
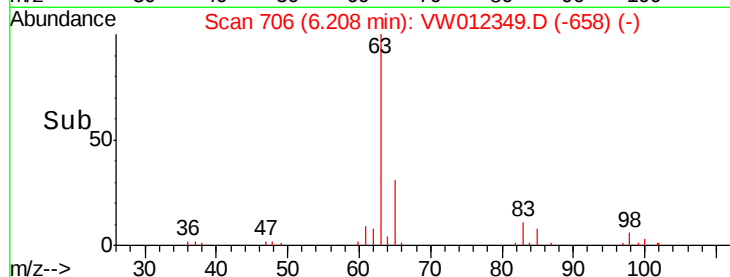
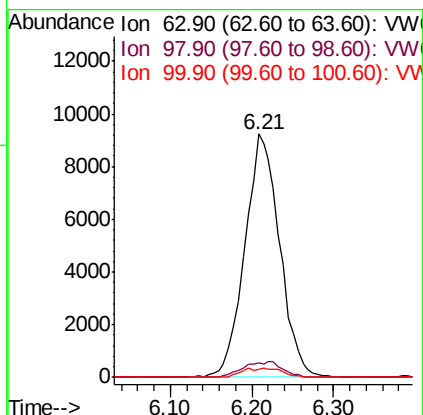
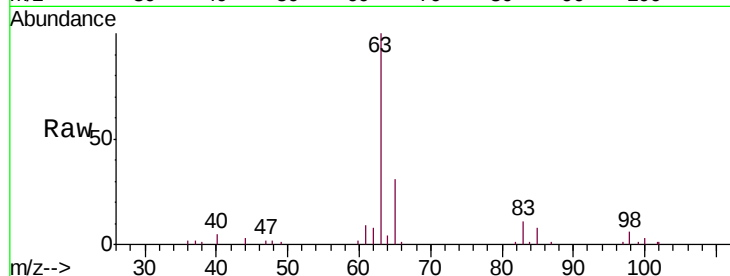
Tot Ion: 63 Resp: 27350

Ion Ratio Lower Upper

63 100

98 5.9 3.0 9.2

100 3.3 2.0 6.0



#25

2-Butanone

Concen: 24.430 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW012349.D

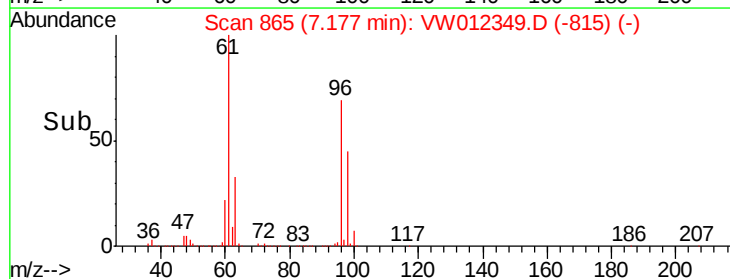
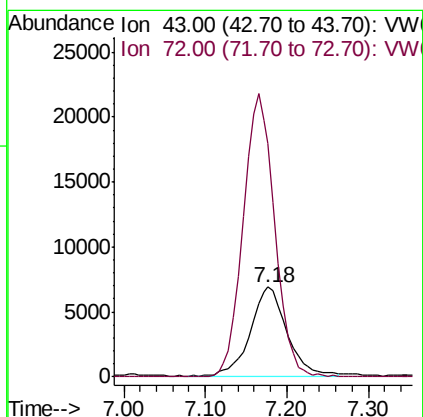
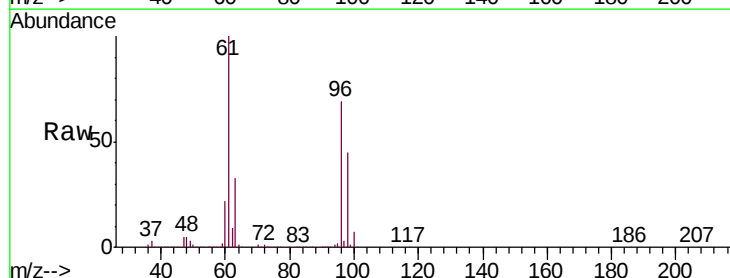
Acq: 30 Aug 2019 14:51

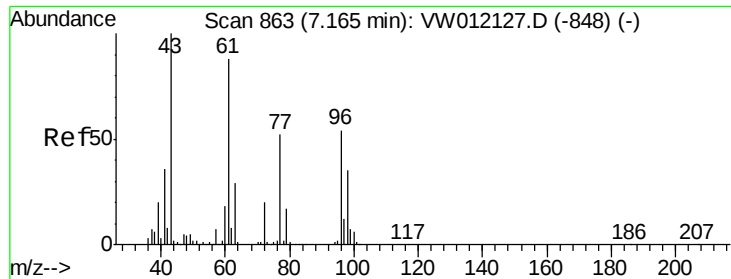
Tgt Ion: 43 Resp: 21246

Ion Ratio Lower Upper

43 100

72 263.6 16.6 24.8#

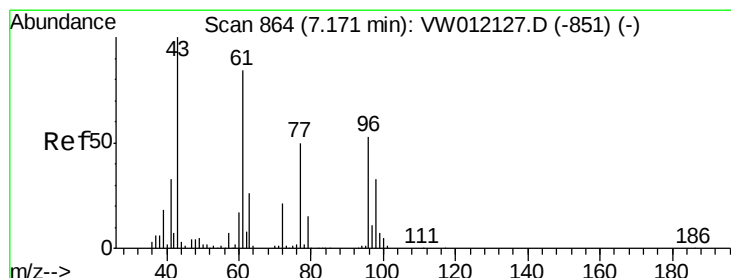
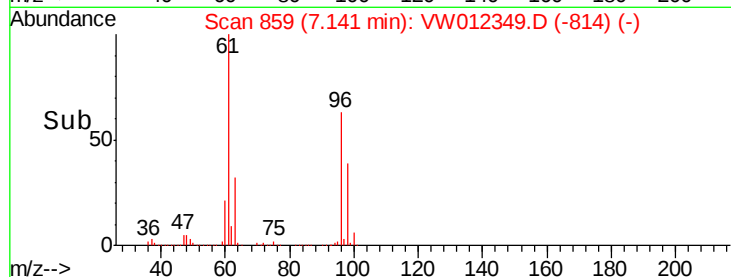
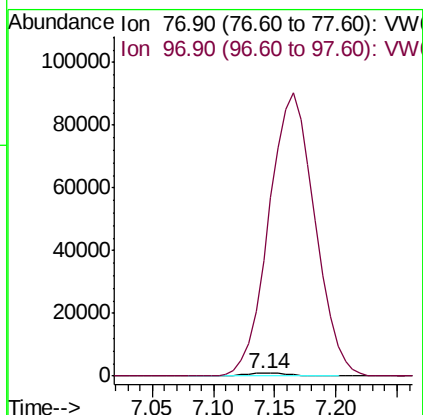
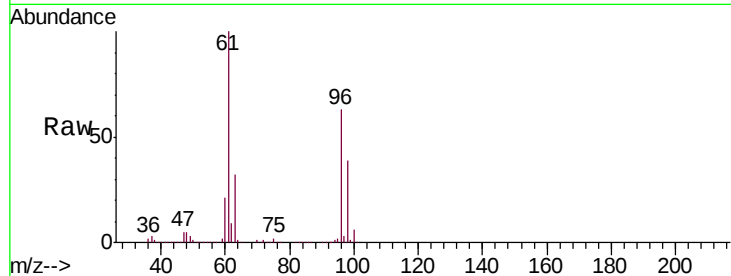




#26
 2,2-Dichloropropane
 Concen: 1.064 ug/l
 RT: 7.14 min Scan# 859
 Delta R.T. -0.02 min
 Lab File: VW012349.D
 Acq: 30 Aug 2019 14:51

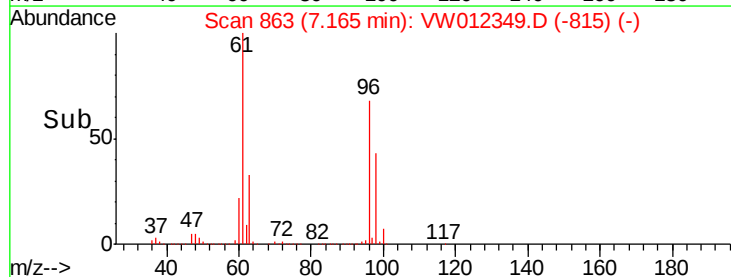
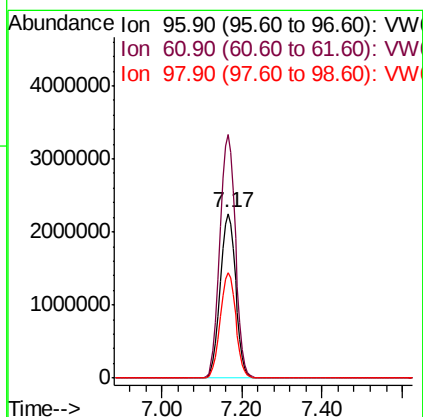
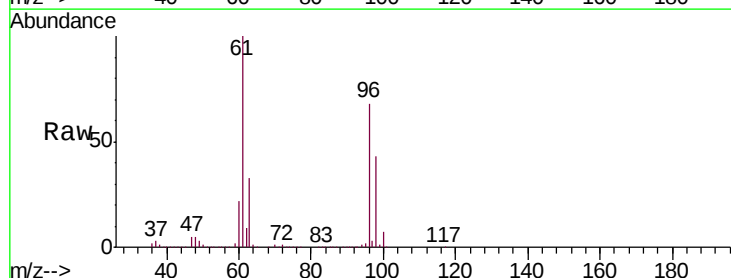
Instrument :
 MSVOA_W
 ClientSampled :

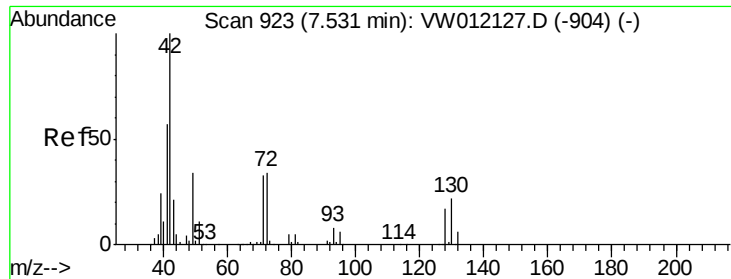
Tot Ion: 77 Resp: 2745
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.1 33.1#



#27
 cis-1,2-Dichloroethene
 Concen: 2470.342 ug/l
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW012349.D
 Acq: 30 Aug 2019 14:51

Tgt Ion: 96 Resp: 5979160
 Ion Ratio Lower Upper
 96 100
 61 149.3 0.0 326.6
 98 64.3 0.0 127.4

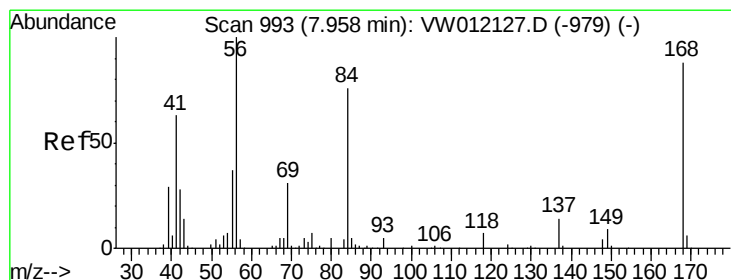
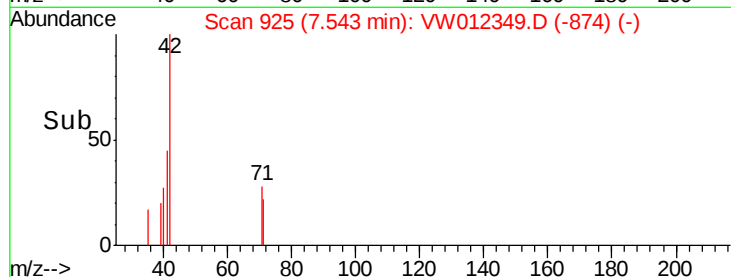
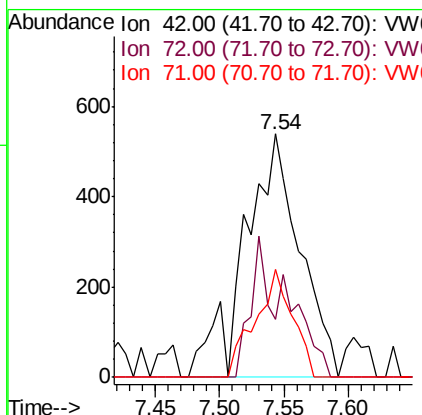
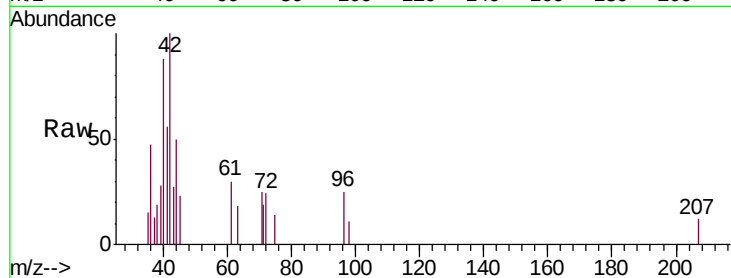




#29
Tetrahydrofuran
Concen: 3.082 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW012349.D
Acq: 30 Aug 2019 14:51

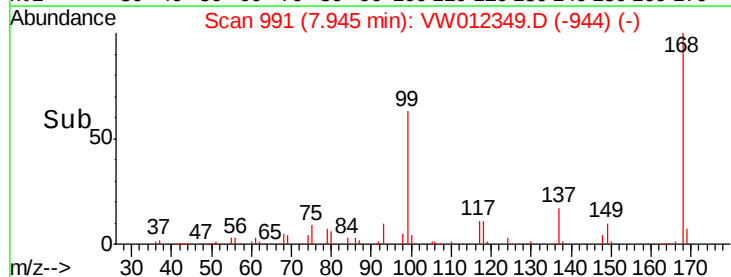
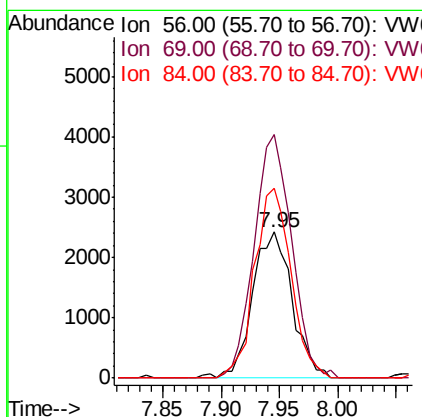
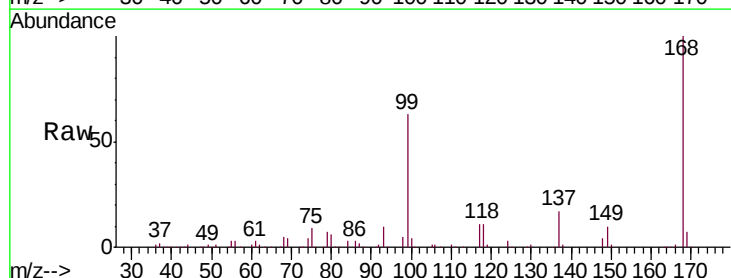
Instrument :
MSVOA_W
ClientSampleId :

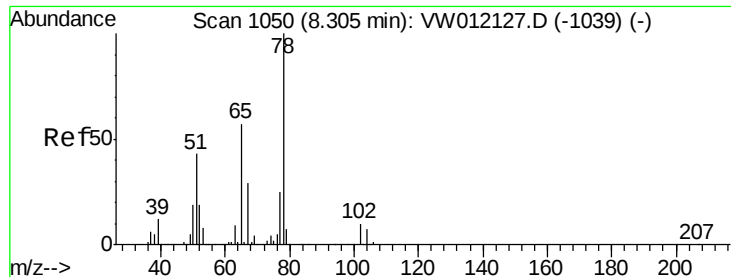
Tot Ion	Ratio	Lower	Upper
42	100		
72	19.5	27.3	40.9#
71	30.0	25.5	38.3



#31
Cyclohexane
Concen: 1.265 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW012349.D
Acq: 30 Aug 2019 14:51

Tgt Ion	Ratio	Lower	Upper
56	100		
69	166.7	24.9	37.3#
84	130.3	60.6	90.8#

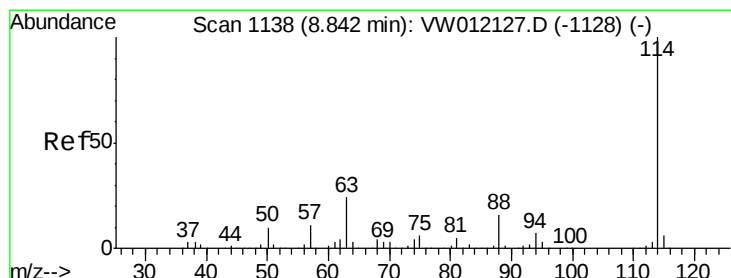
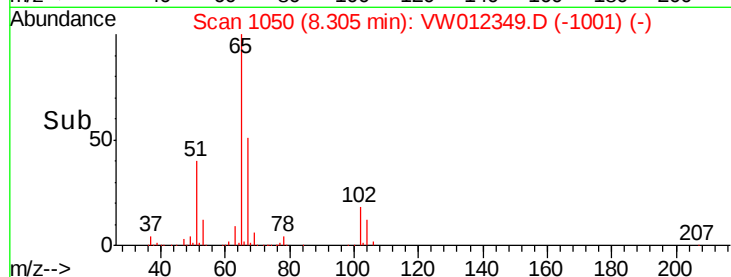
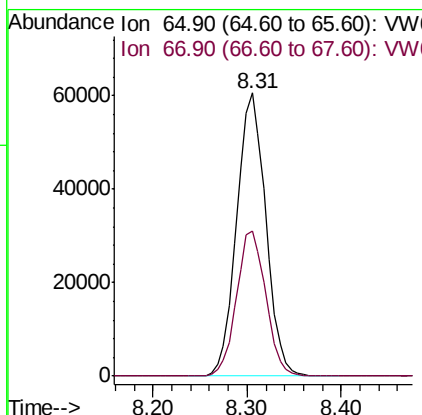
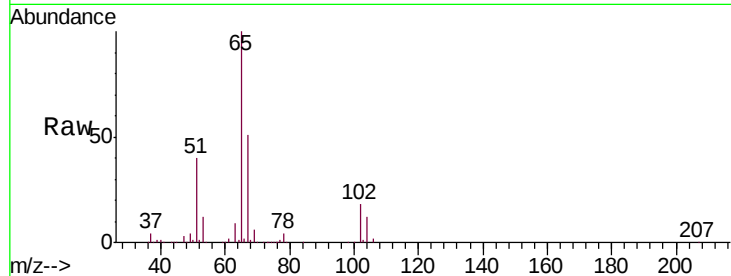




#33
 1,2-Dichloroethane-d4
 Concen: 52.353 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW012349.D
 Acq: 30 Aug 2019 14:51

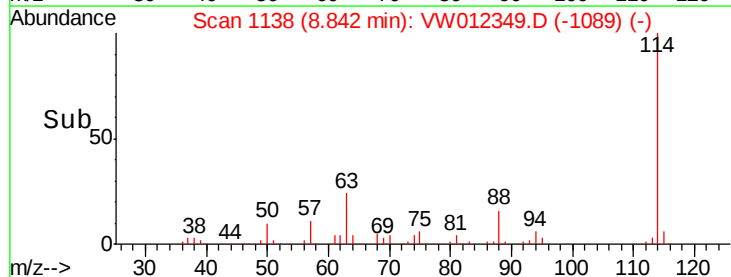
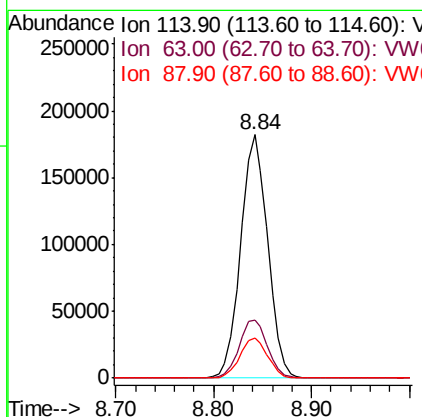
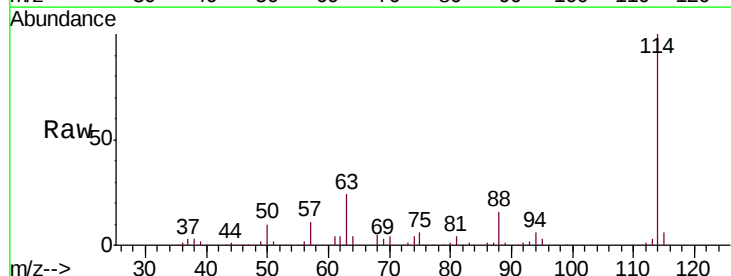
Instrument :
 MSVOA_W
 ClientSampleId :

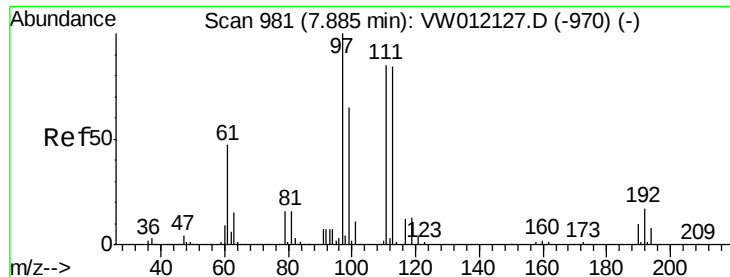
Tot Ion: 65 Resp: 131075
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012349.D
 Acq: 30 Aug 2019 14:51

Tgt Ion: 114 Resp: 349441
 Ion Ratio Lower Upper
 114 100
 63 23.9 0.0 48.6
 88 16.4 0.0 32.2

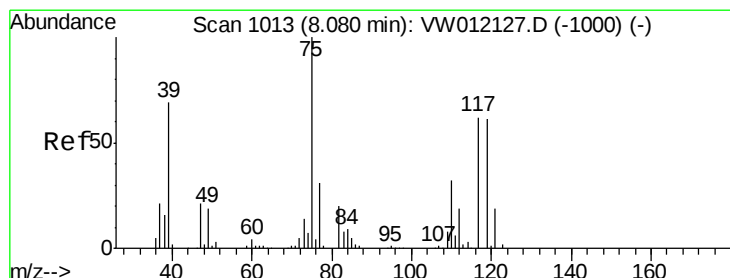
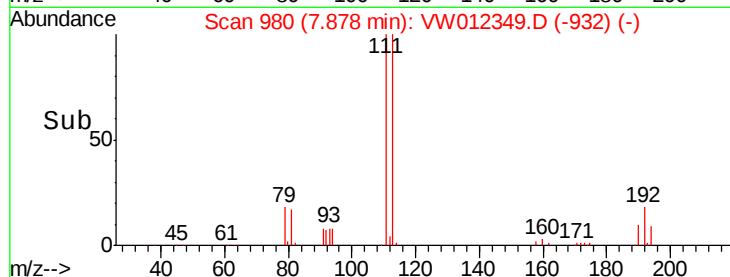
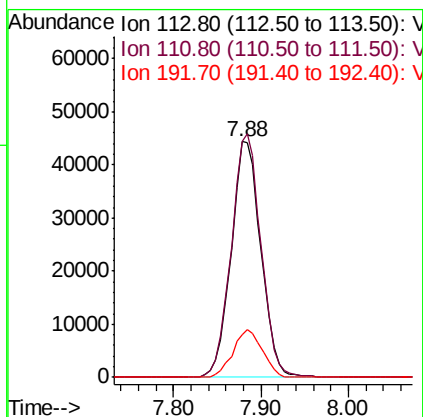
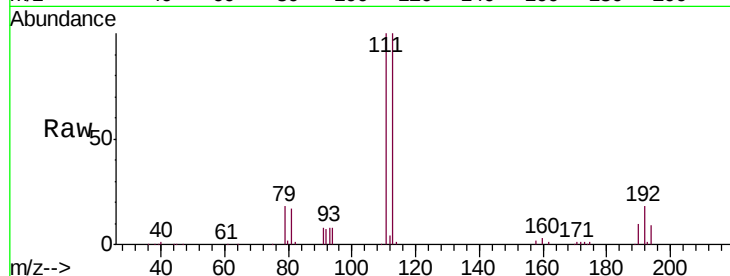




#35
 Dibromofluoromethane
 Concen: 50.291 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW012349.D
 Acq: 30 Aug 2019 14:51

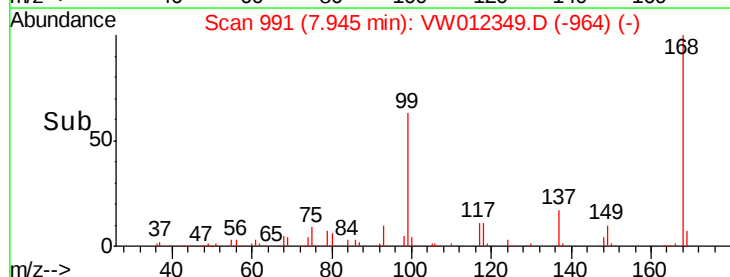
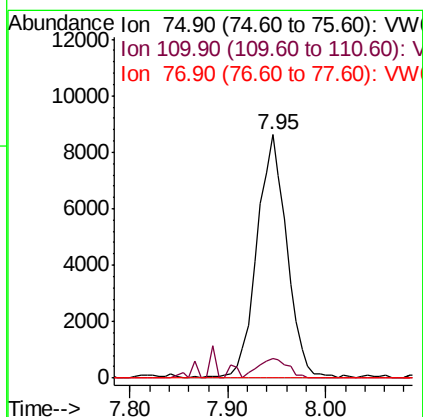
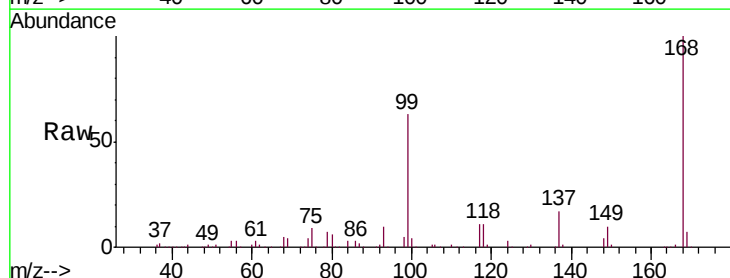
Instrument :
 MSVOA_W
 ClientSampleId :

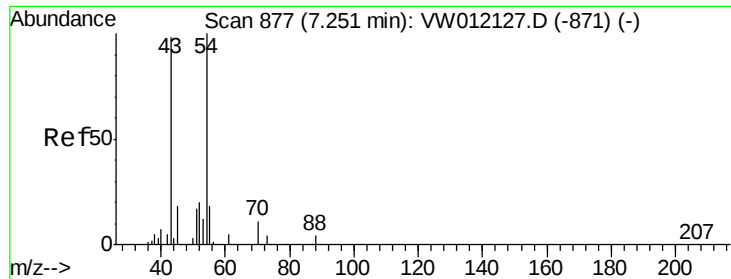
Tot Ion:113 Resp: 104898
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.7 124.1
 192 19.9 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 5.081 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012349.D
 Acq: 30 Aug 2019 14:51

Tgt Ion: 75 Resp: 18347
 Ion Ratio Lower Upper
 75 100
 110 8.0 15.6 46.8#
 77 0.0 24.6 36.8#

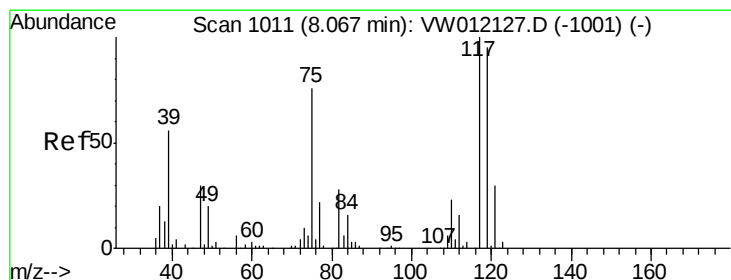
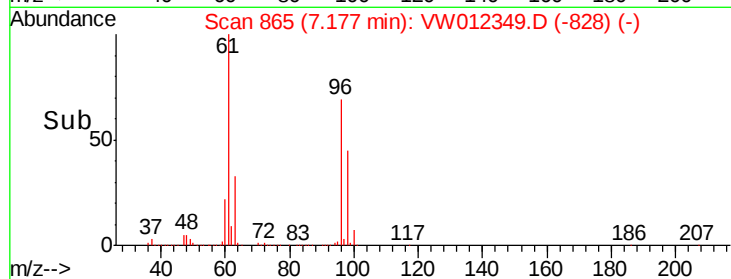
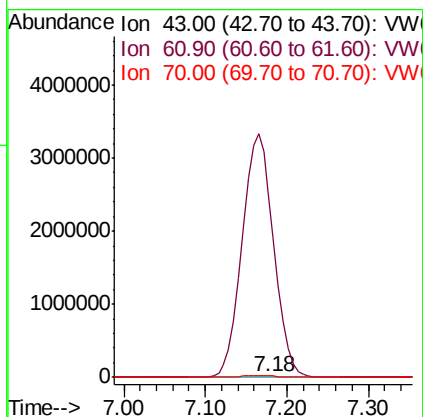
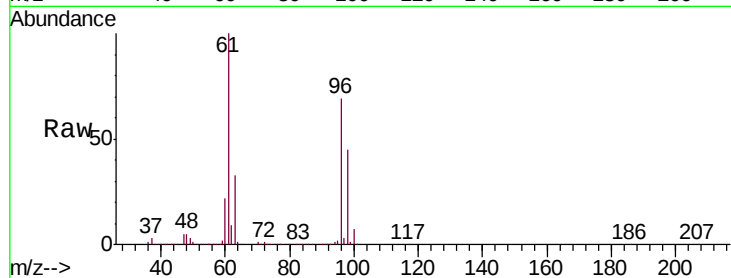




#37
Ethyl Acetate
Concen: 10.737 ug/l
RT: 7.18 min Scan# 865
Delta R.T. -0.07 min
Lab File: VW012349.D
Acq: 30 Aug 2019 14:51

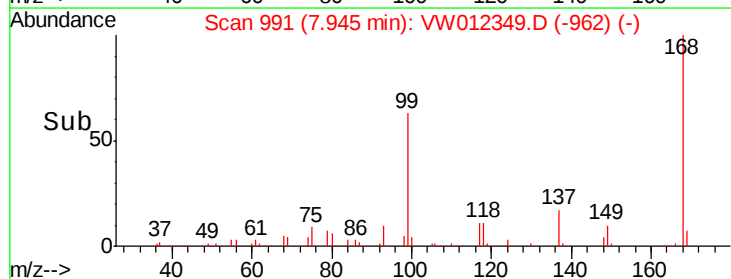
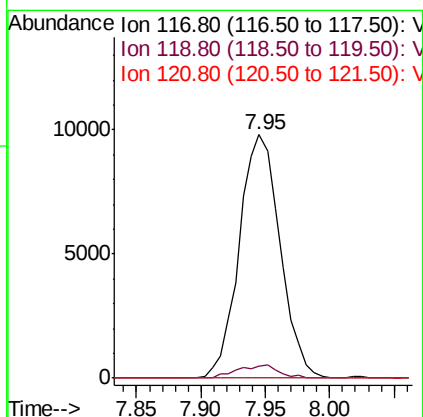
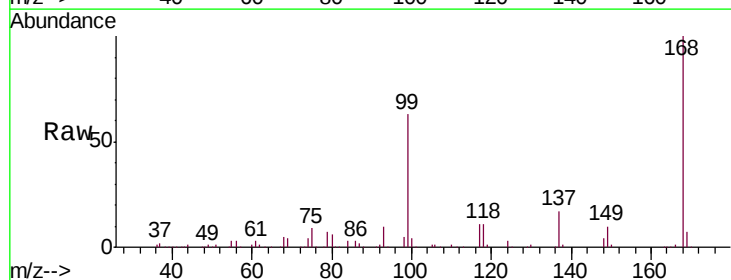
Instrument :
MSVOA_W
ClientSampled :

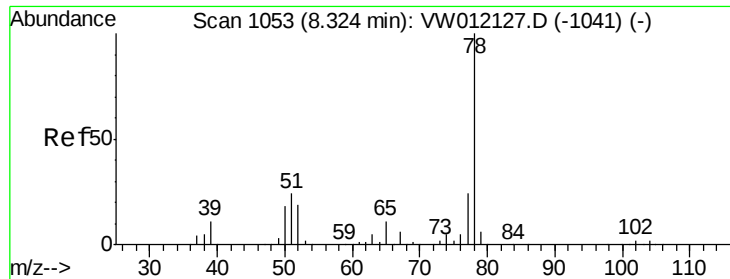
Tot Ion: 43 Resp: 21246
Ion Ratio Lower Upper
43 100
61 42006.1 9.2 13.8#
70 389.7 6.9 10.3#



#38
Carbon Tetrachloride
Concen: 6.864 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW012349.D
Acq: 30 Aug 2019 14:51

Tgt Ion: 117 Resp: 21454
Ion Ratio Lower Upper
117 100
119 4.8 76.2 114.2#
121 0.0 23.8 35.8#





#40

Benzene

Concen: 1.137 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW012349.D

Acq: 30 Aug 2019 14:51

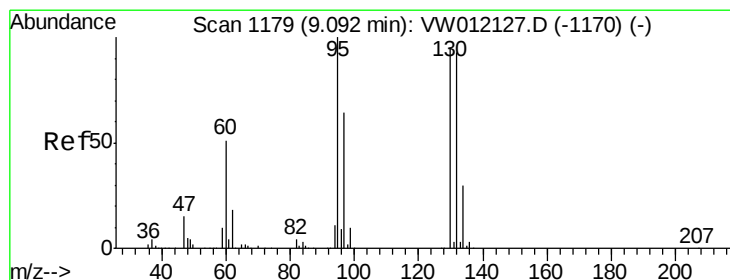
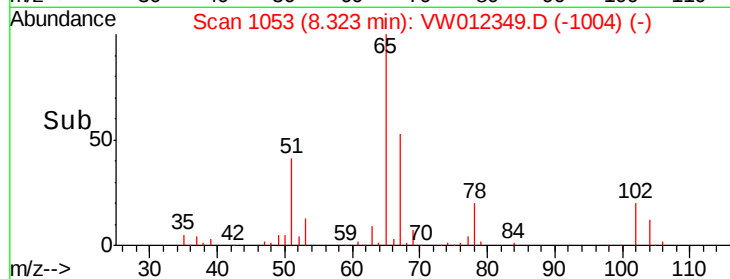
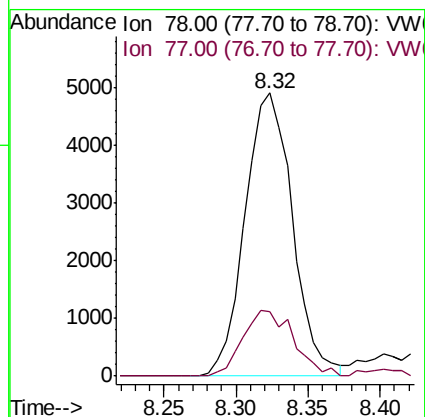
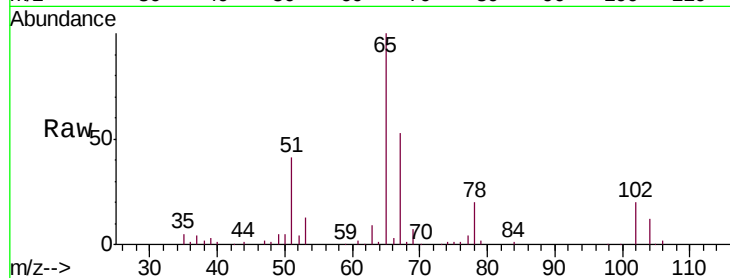
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 78 Resp: 11212

Ion Ratio Lower Upper

78 100

77 22.7 19.5 29.3



#44

Trichloroethene

Concen: 6.895 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW012349.D

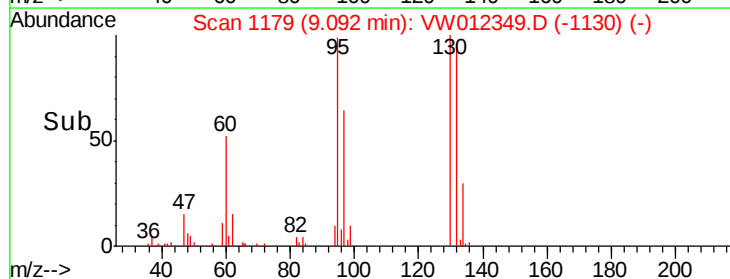
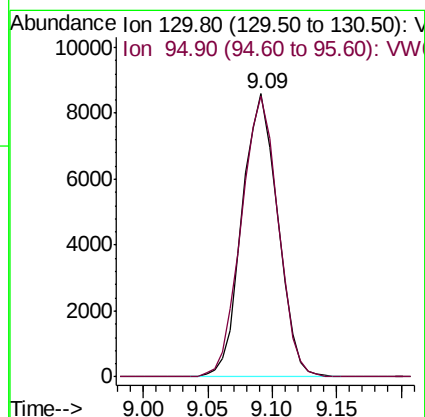
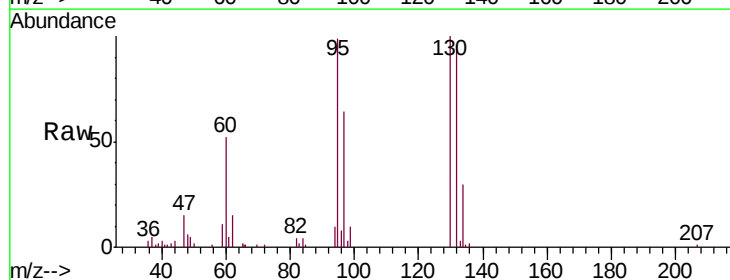
Acq: 30 Aug 2019 14:51

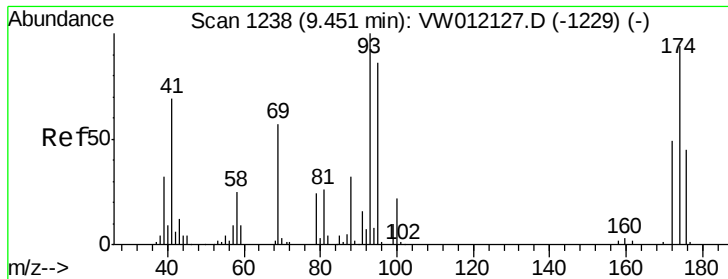
Tgt Ion:130 Resp: 16527

Ion Ratio Lower Upper

130 100

95 99.3 0.0 210.6





#49

1,4-Dioxane

Concen: 2.656 ug/l

RT: 9.48 min Scan# 1243

Delta R.T. 0.03 min

Lab File: VW012349.D

Acq: 30 Aug 2019 14:51

Instrument :
MSVOA_W
ClientSampled :

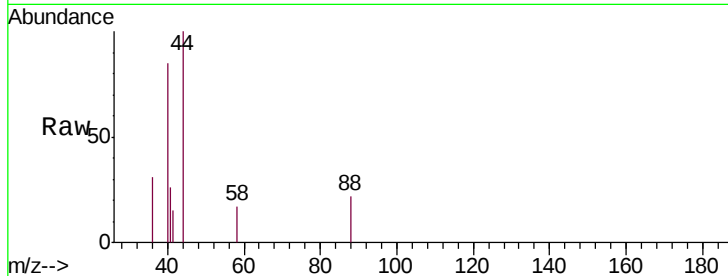
Tot Ion: 88 Resp: 48

Ion Ratio Lower Upper

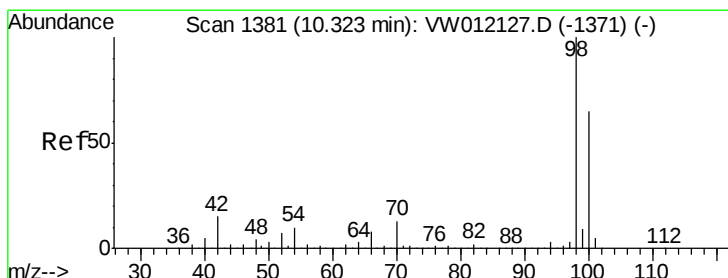
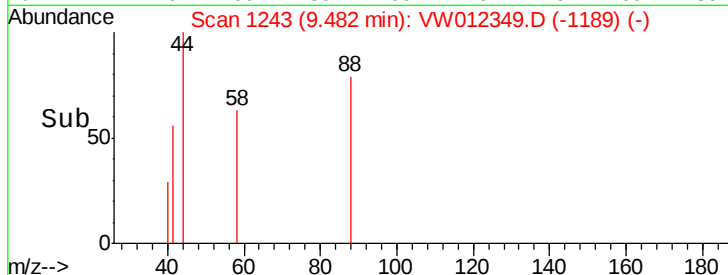
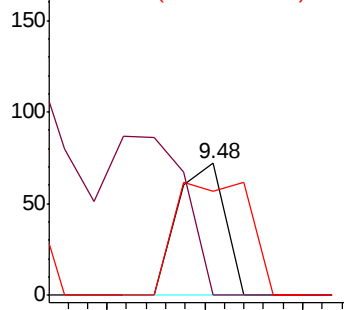
88 100

43 183.3 32.9 49.3#

58 137.5 71.0 106.4#



Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 50.090 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012349.D

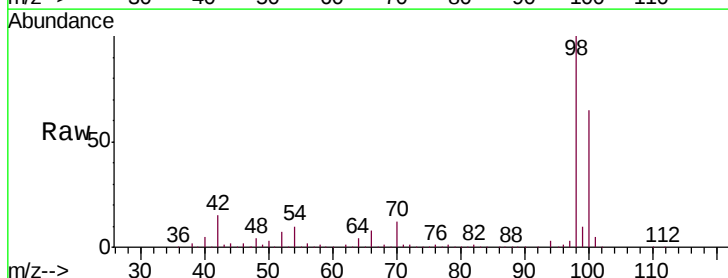
Acq: 30 Aug 2019 14:51

Tgt Ion: 98 Resp: 423633

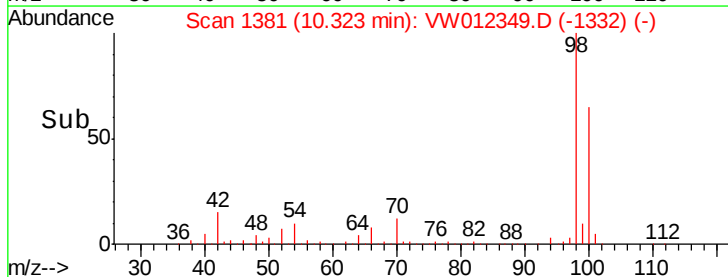
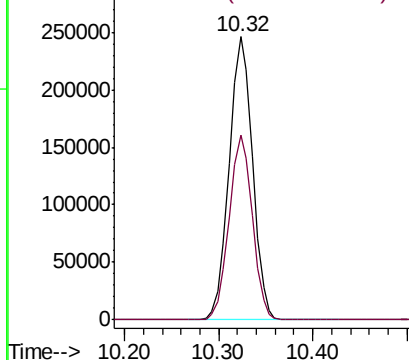
Ion Ratio Lower Upper

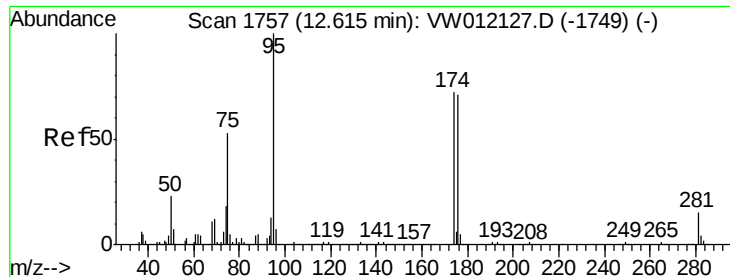
98 100

100 64.9 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW

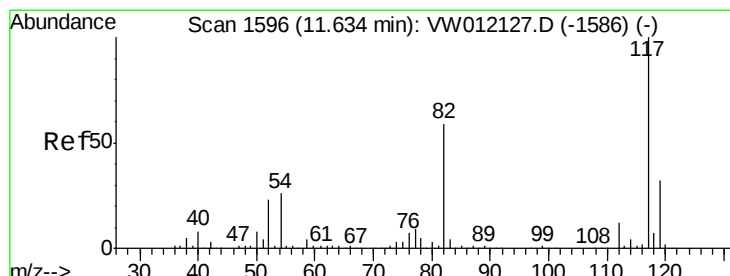
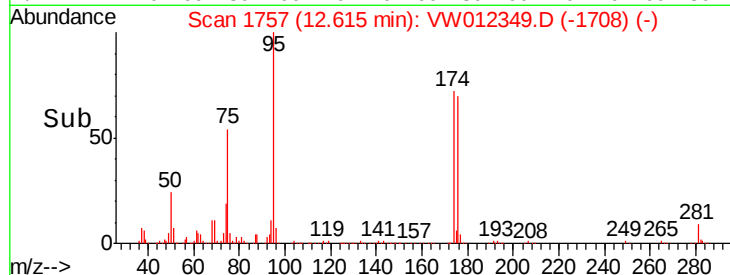
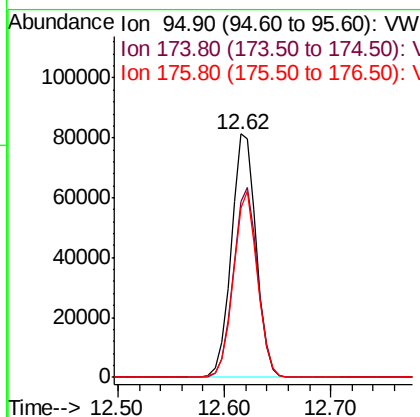
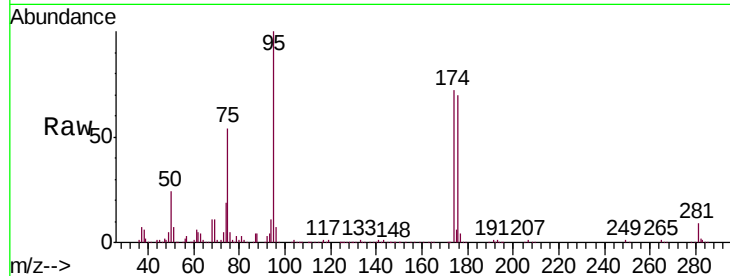




#62
4-Bromofluorobenzene
Concen: 44.591 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW012349.D
Acq: 30 Aug 2019 14:51

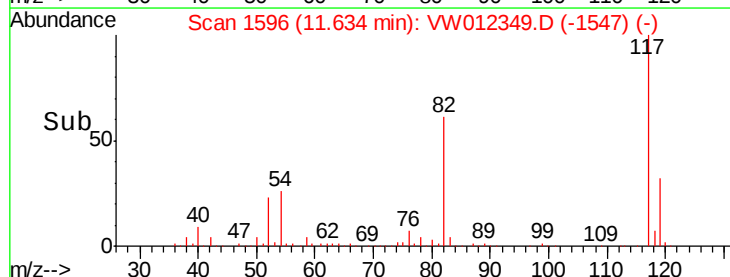
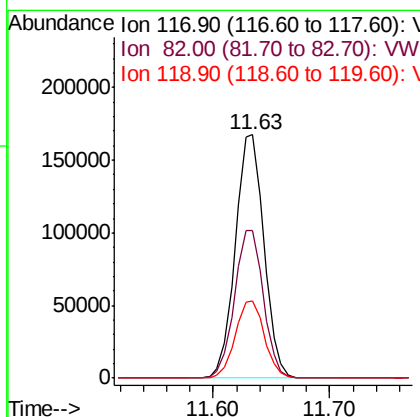
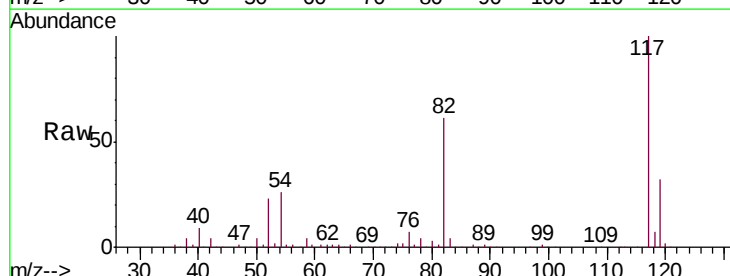
Instrument :
MSVOA_W
ClientSampleId :

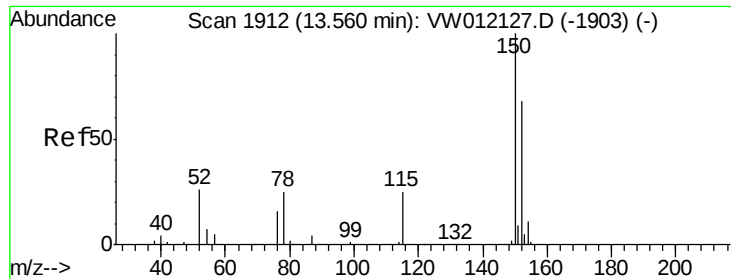
Tot Ion: 95 Resp: 132936
Ion Ratio Lower Upper
95 100
174 76.4 0.0 150.8
176 73.7 0.0 148.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012349.D
Acq: 30 Aug 2019 14:51

Tgt Ion: 117 Resp: 287744
Ion Ratio Lower Upper
117 100
82 60.9 47.4 71.2
119 31.8 25.4 38.2



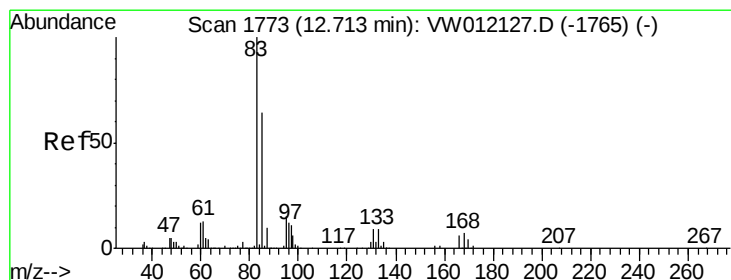
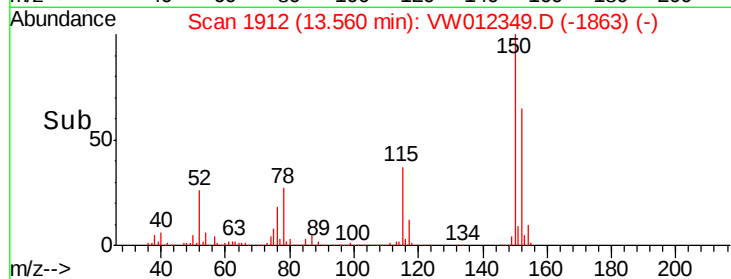
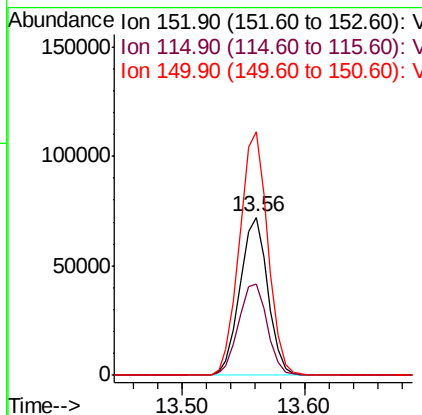
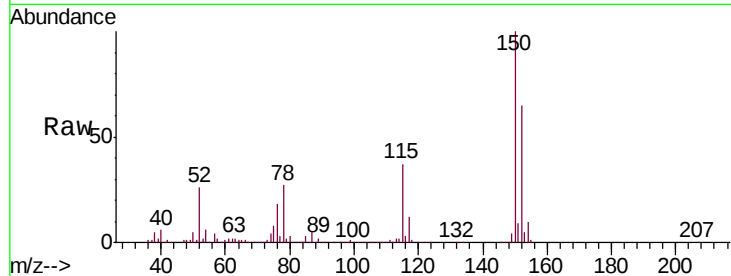


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012349.D
Acq: 30 Aug 2019 14:51

Instrument :
MSVOA_W
ClientSampled :

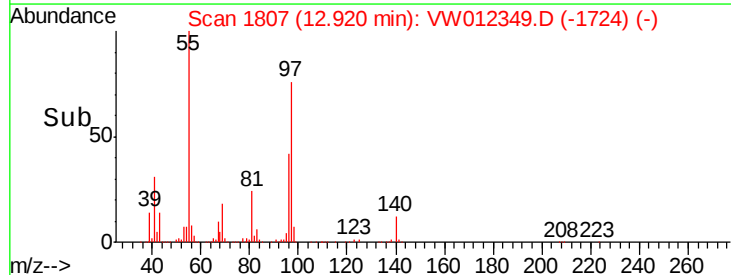
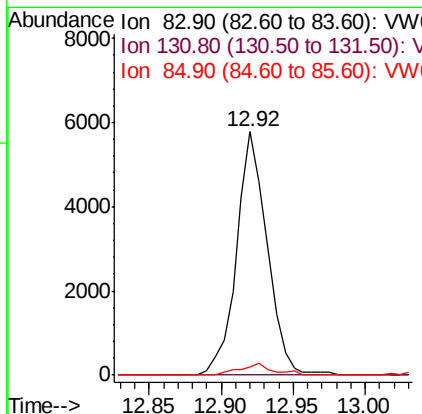
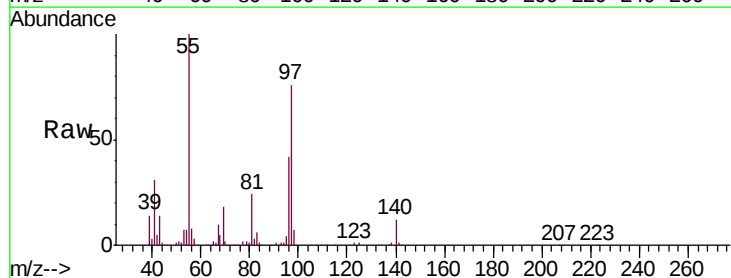
Tot Ion	Ratio	Lower	Upper
152	100		
115	59.6	30.1	90.3
150	156.9	0.0	345.8

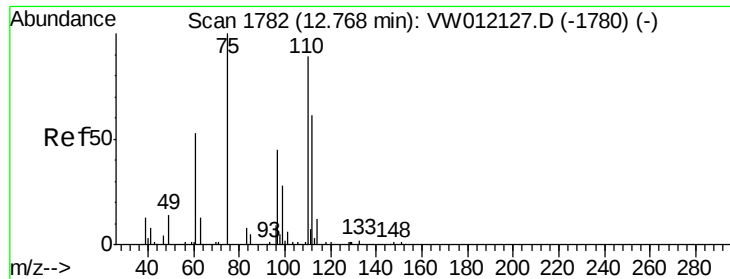


#75

1,1,2,2-Tetrachloroethane
Concen: 5.504 ug/l
RT: 12.92 min Scan# 1807
Delta R.T. 0.21 min
Lab File: VW012349.D
Acq: 30 Aug 2019 14:51

Tgt Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.9	14.7#
85	5.0	31.9	95.7#



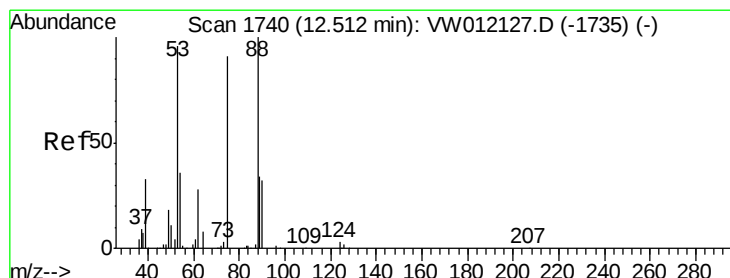
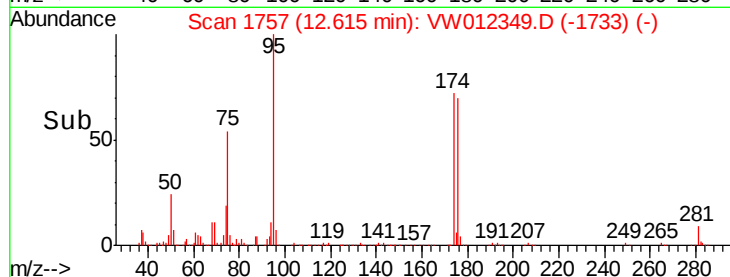
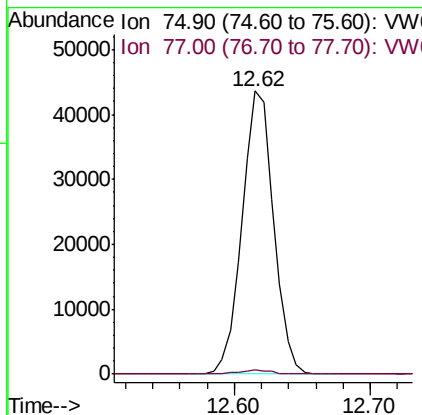
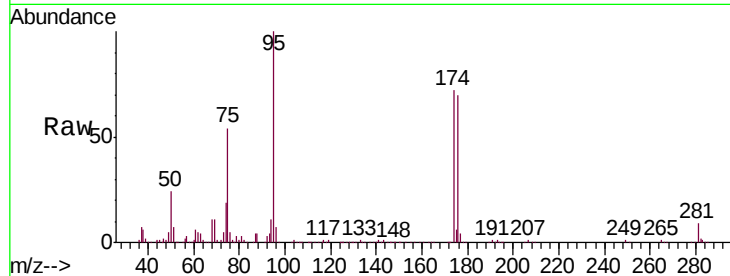


#76

1,2,3-Trichloropropane
Concen: 63.983 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW012349.D
Acq: 30 Aug 2019 14:51

Instrument :
MSVOA_W
ClientSampleId :

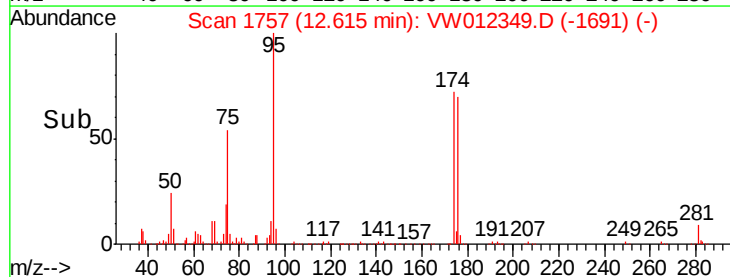
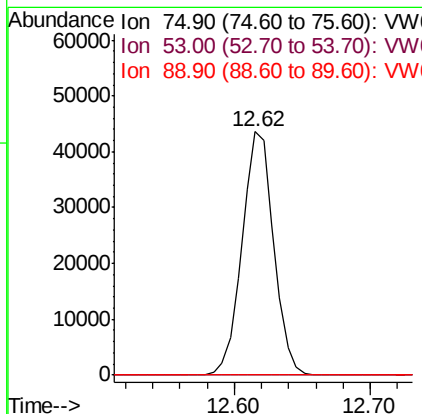
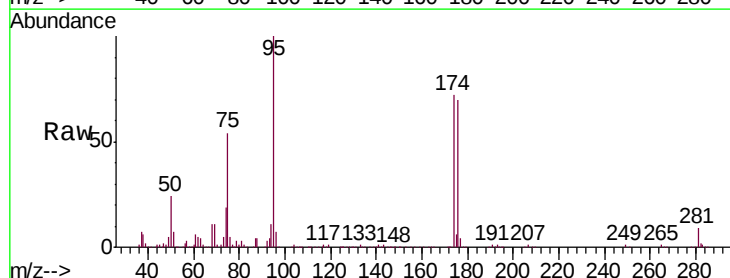
Tot Ion: 75 Resp: 70677
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#

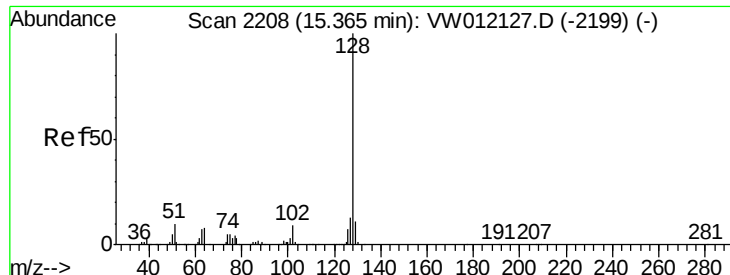


#81

trans-1,4-Dichloro-2-butene
Concen: 140.284 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW012349.D
Acq: 30 Aug 2019 14:51

Tgt Ion: 75 Resp: 70677
Ion Ratio Lower Upper
75 100
53 0.1 89.4 134.0#
89 0.1 34.5 51.7#





#95

Naphthalene

Concen: 4.372 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

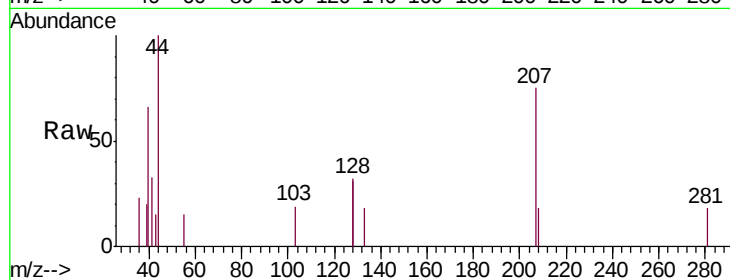
Lab File: VW012349.D

Acq: 30 Aug 2019 14:51

Instrument :

MSVOA_W

ClientSampleId :



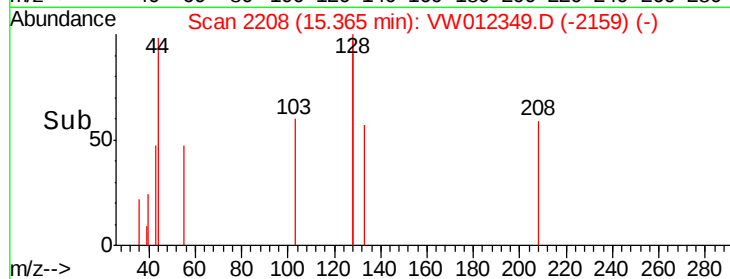
Tot Ion:128 Resp: 238

Ion Ratio Lower Upper

128 100

127 8.0 10.7 16.1#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

