

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090919\
 Data File : VW012817.D
 Acq On : 09 Sep 2019 13:23
 Operator : SY/VA
 Sample : K4760-08
 Misc : 6.33G/5ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 09 14:08:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W090719S.M
 Quant Title : SW846 8260
 QLast Update : Sun Sep 08 05:04:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	64437	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	87272	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	65505	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	18553	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	29102	40.42	ug/l	0.00
Spiked Amount			Recovery	=	80.84%	
35) Dibromofluoromethane	7.89	113	23791	45.85	ug/l	0.00
Spiked Amount			Recovery	=	91.70%	
50) Toluene-d8	10.32	98	100663	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
62) 4-Bromofluorobenzene	12.61	95	25935	35.14	ug/l	0.00
Spiked Amount			Recovery	=	70.28%	

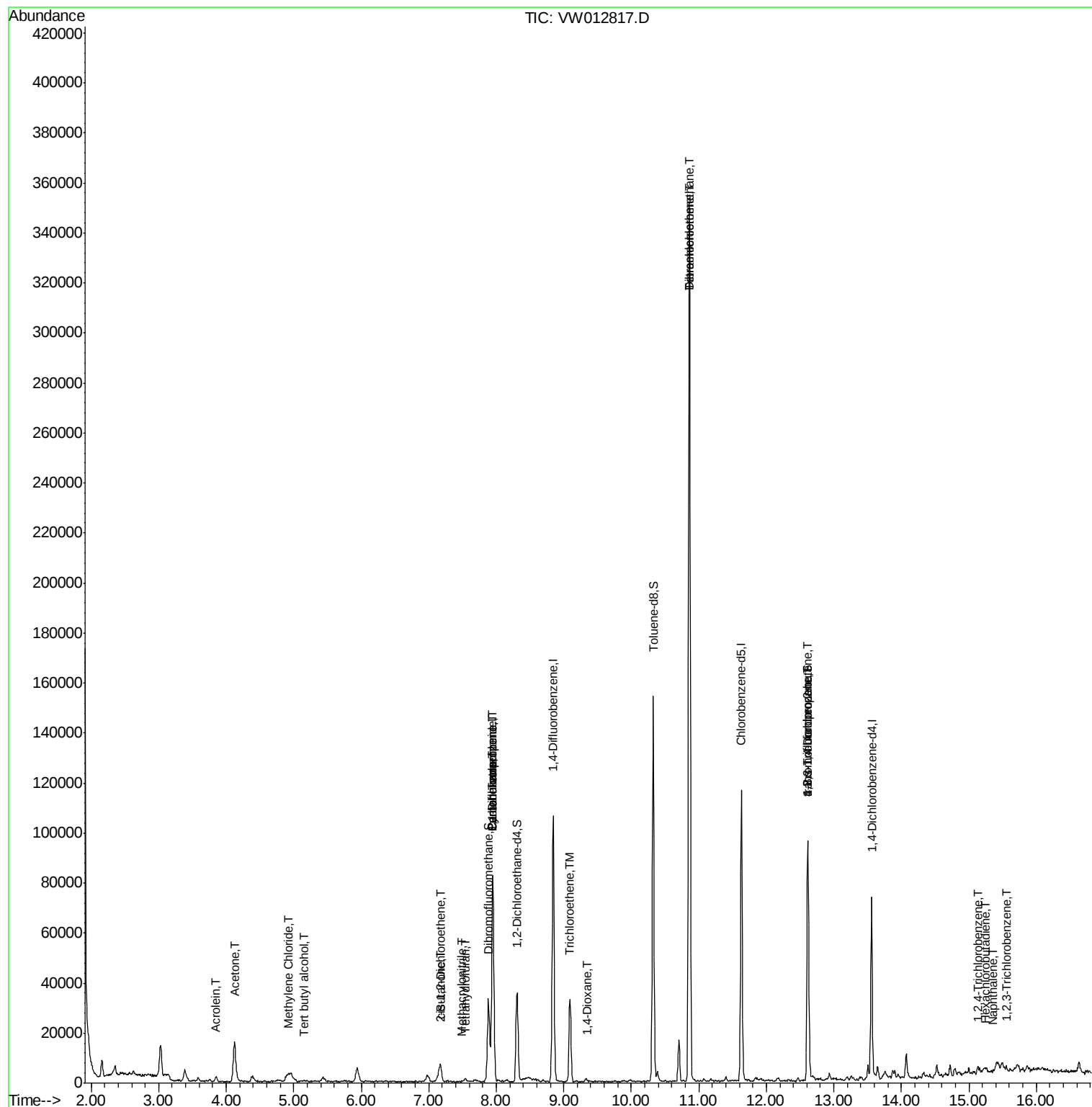
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.16	59	911	16.538	ug/l #	72
13) Acrolein	3.84	56	67	1.146	ug/l #	1
16) Acetone	4.12	43	28203	143.688	ug/l	91
20) Methylene Chloride	4.92	84	1427	2.324	ug/l #	84
25) 2-Butanone	7.18	43	300	20.637	ug/l #	53
27) cis-1,2-Dichloroethene	7.18	96	3509	5.574	ug/l	82
29) Tetrahydrofuran	7.54	42	1266	7.987	ug/l #	73
31) Cyclohexane	7.95	56	1663	1.571	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	4753	6.129	ug/l #	51
38) Carbon Tetrachloride	7.95	117	6109	7.992	ug/l #	15
41) Methacrylonitrile	7.49	41	64	4.015	ug/l #	44
44) Trichloroethene	9.09	130	12086	21.793	ug/l	80
49) 1,4-Dioxane	9.35	88	38	6.808	ug/l #	1
60) Dibromochloromethane	10.86	129	62403	125.427	ug/l #	11
64) Tetrachloroethene	10.86	164	82695	208.053	ug/l	98
76) 1,2,3-Trichloropropane	12.61	75	13582	71.592	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.61	75	13582	151.423	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.14	180	398	1.072	ug/l #	82
94) Hexachlorobutadiene	15.24	225	274	1.066	ug/l #	75
95) Naphthalene	15.36	128	629	5.175	ug/l #	73
96) 1,2,3-Trichlorobenzene	15.55	180	525	1.602	ug/l	76

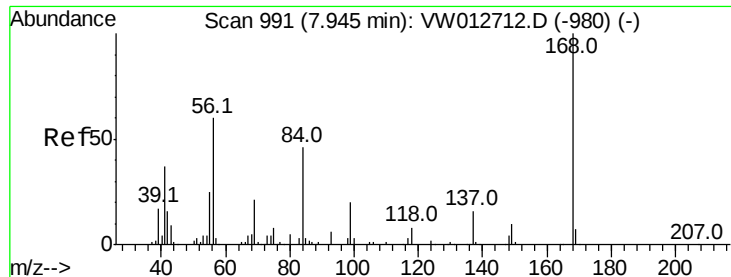
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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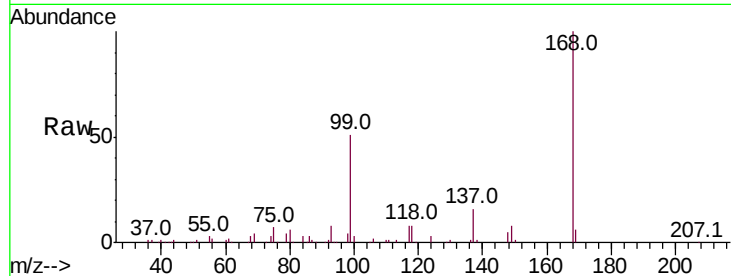


#1

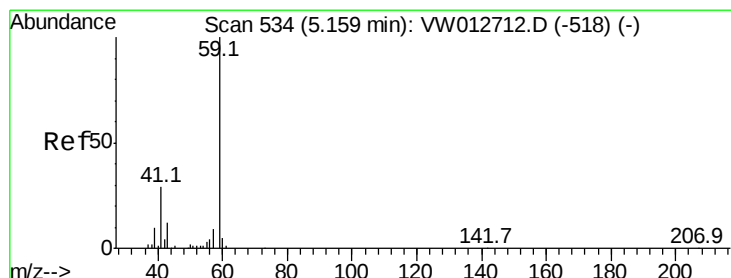
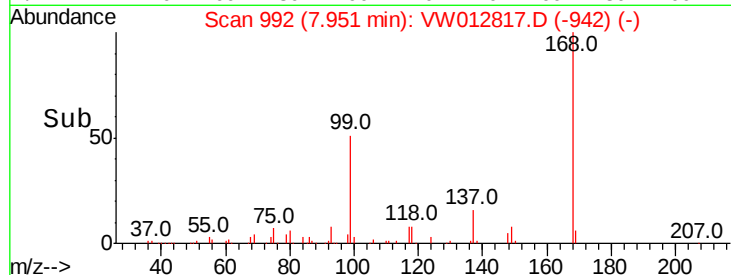
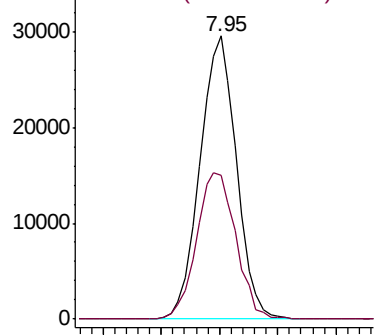
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. 0.01 min
 Lab File: VW012817.D
 Acq: 09 Sep 2019 13:23

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion:168 Resp: 64437
 Ion Ratio Lower Upper
 168 100
 99 51.0 47.8 71.6



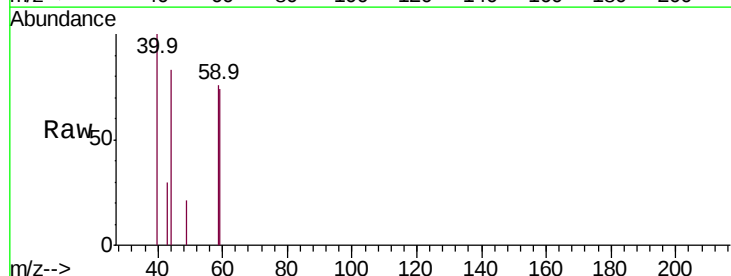
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VW



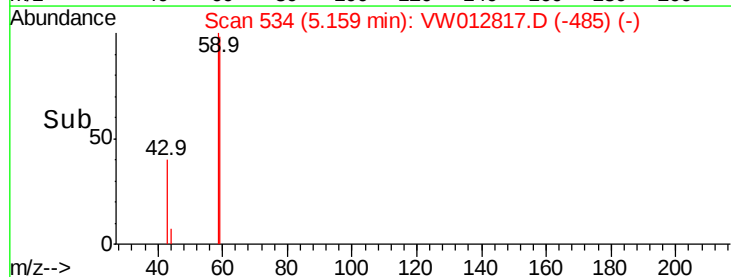
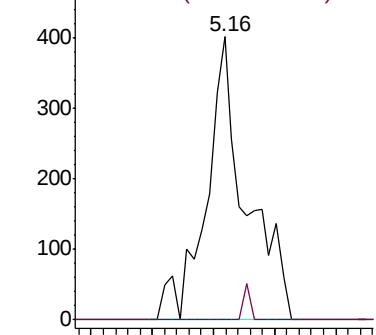
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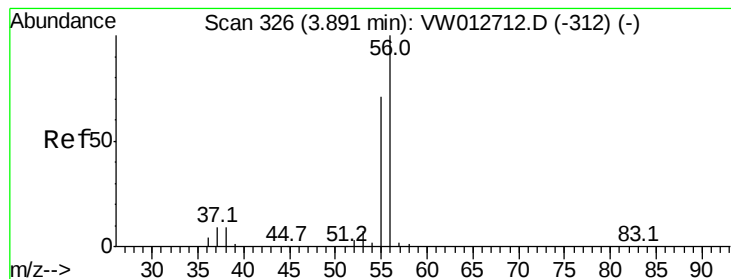
Tert butyl alcohol
 Concen: 16.538 ug/l
 RT: 5.16 min Scan# 534
 Delta R.T. -0.00 min
 Lab File: VW012817.D
 Acq: 09 Sep 2019 13:23

Tgt Ion: 59 Resp: 911
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VW
 Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 1.146 ug/l

RT: 3.84 min Scan# 318

Delta R.T. -0.05 min

Lab File: VW012817.D

Acq: 09 Sep 2019 13:23

Instrument :

MSVOA_W

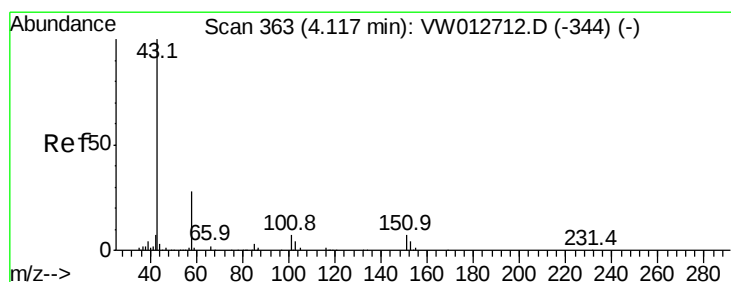
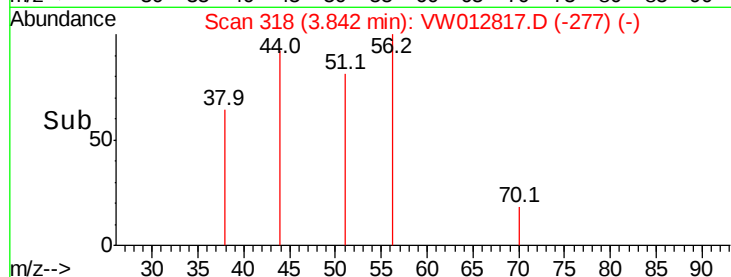
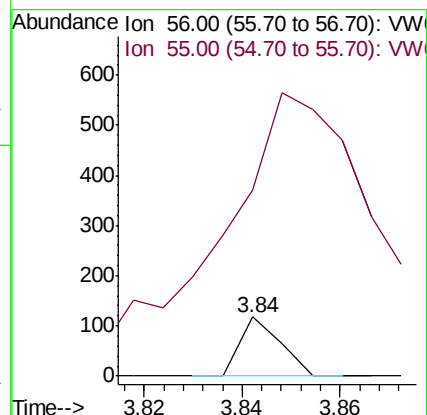
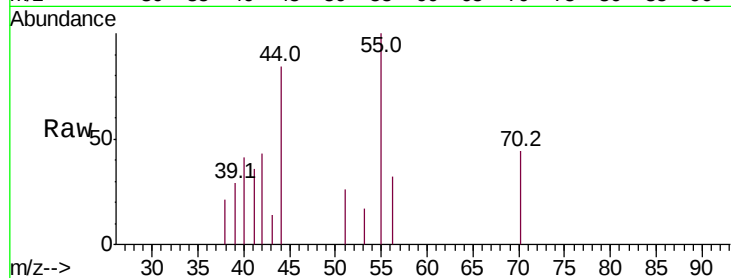
ClientSampled :

Tot Ion: 56 Resp: 67

Ion Ratio Lower Upper

56 100

55 1955.2 56.9 85.3#



#16

Acetone

Concen: 143.688 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW012817.D

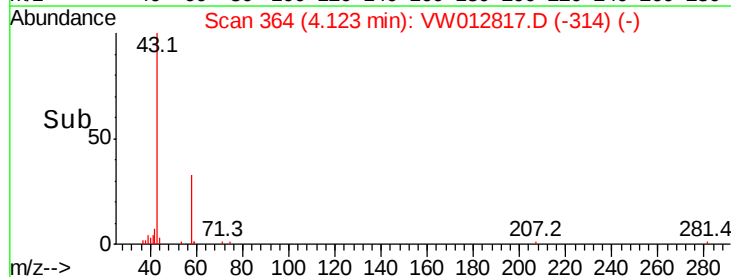
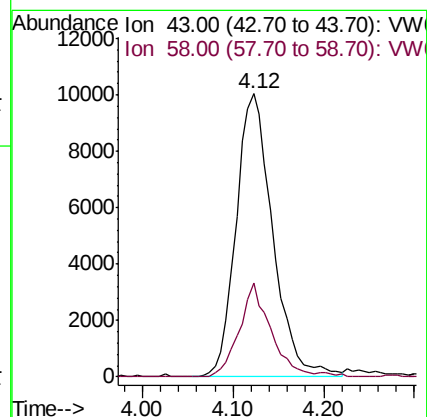
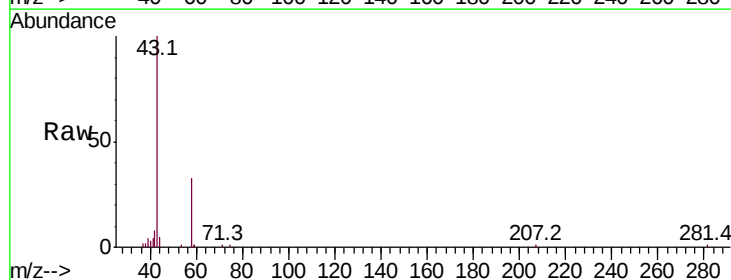
Acq: 09 Sep 2019 13:23

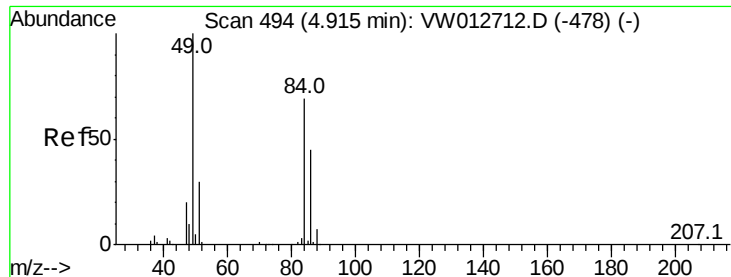
Tgt Ion: 43 Resp: 28203

Ion Ratio Lower Upper

43 100

58 33.1 22.6 33.8

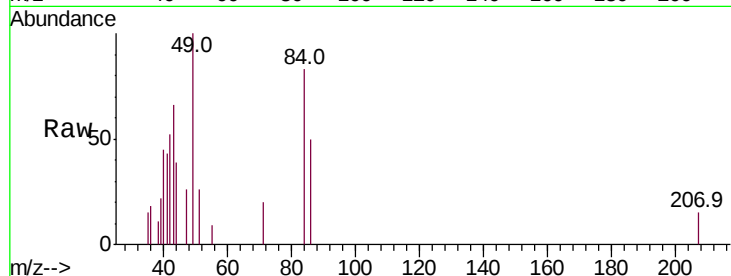




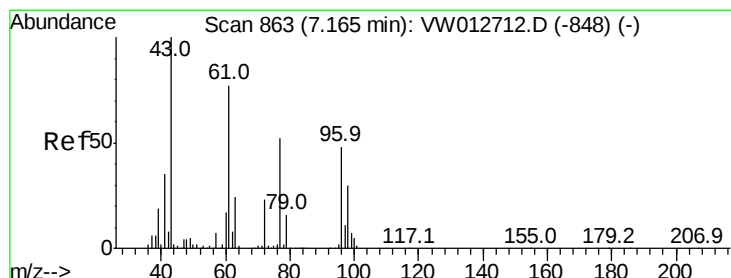
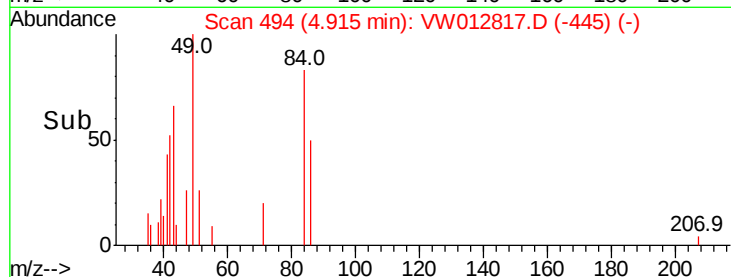
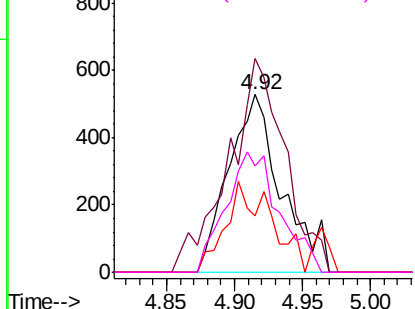
#20
Methylene Chloride
Concen: 2.324 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW012817.D
Acq: 09 Sep 2019 13:23

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 84 Resp: 1427
Ion Ratio Lower Upper
84 100
49 120.3 115.4 173.0
51 31.6 34.9 52.3#
86 60.0 52.2 78.4

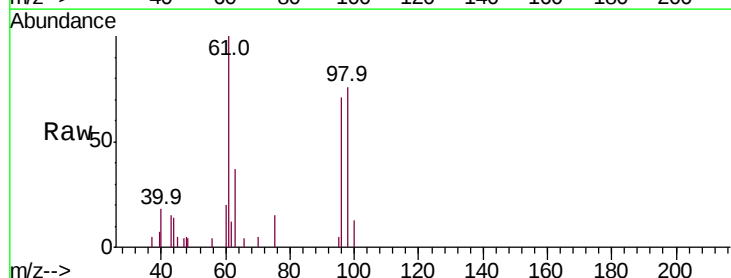


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

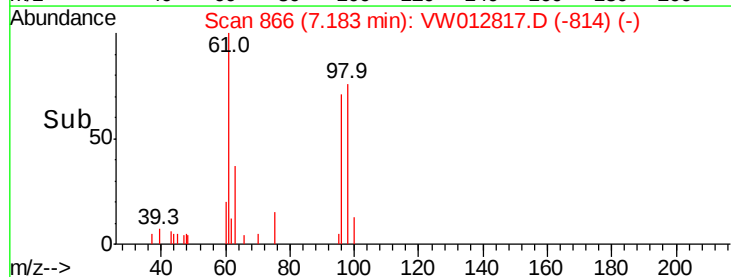
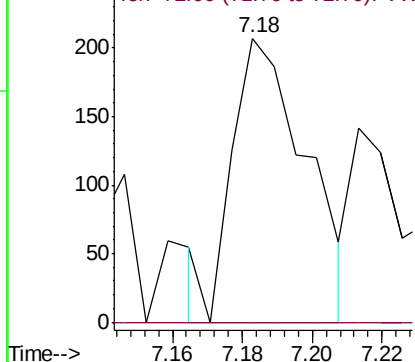


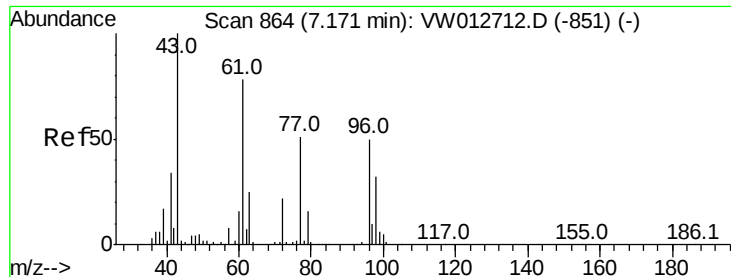
#25
2-Butanone
Concen: 20.637 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.02 min
Lab File: VW012817.D
Acq: 09 Sep 2019 13:23

Tgt Ion: 43 Resp: 300
Ion Ratio Lower Upper
43 100
72 0.0 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW



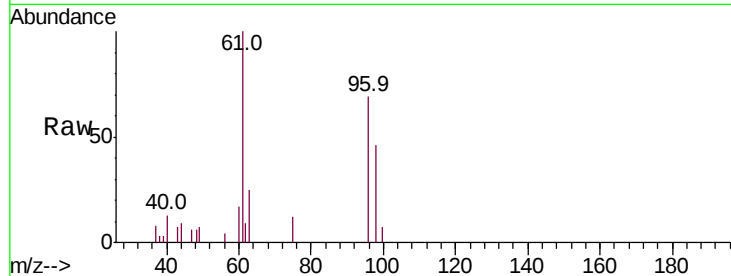


#27

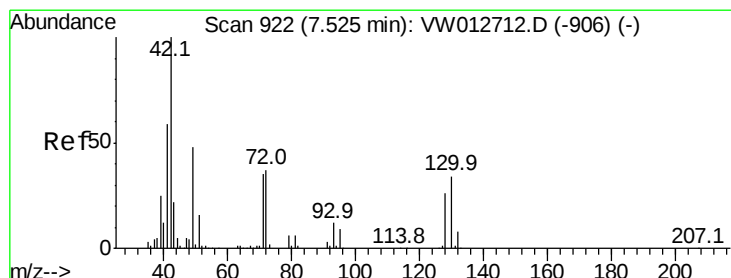
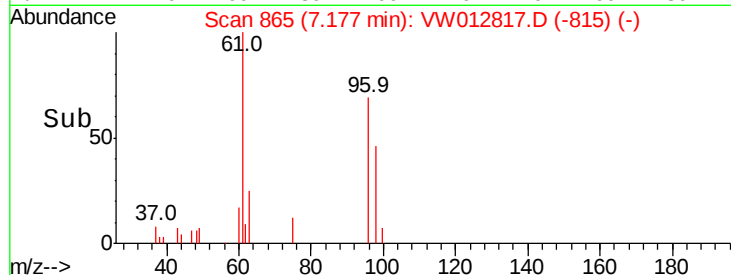
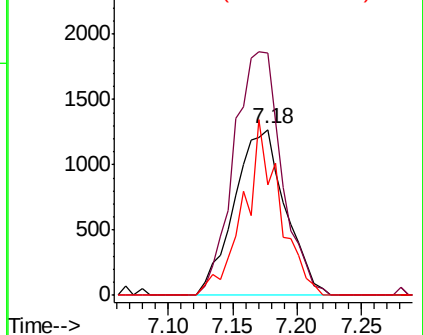
cis-1,2-Dichloroethene
 Concen: 5.574 ug/l
 RT: 7.18 min Scan# 865
 Delta R.T. 0.01 min
 Lab File: VW012817.D
 Acq: 09 Sep 2019 13:23

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	137.1	0.0	325.8
98	74.1	0.0	127.0



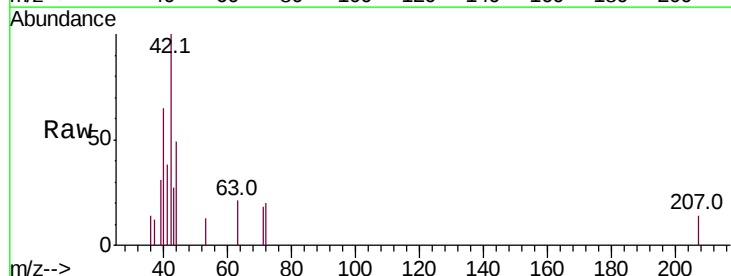
Abundance Ion 95.90 (95.60 to 96.60): VW
 Ion 60.90 (60.60 to 61.60): VW
 Ion 97.90 (97.60 to 98.60): VW



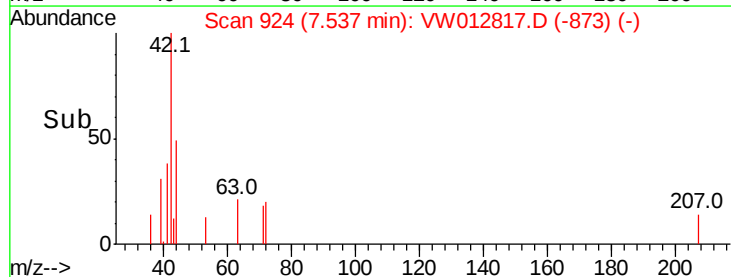
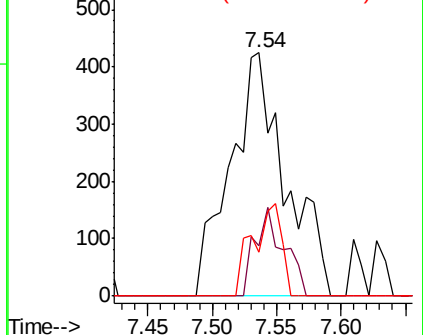
#29

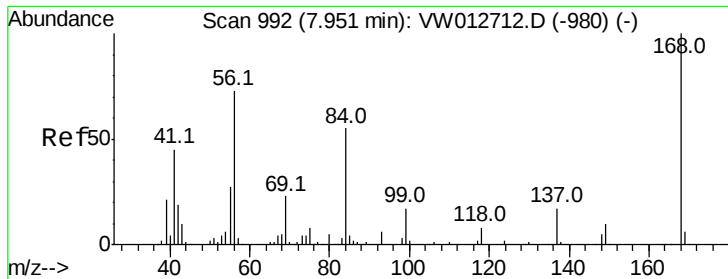
Tetrahydrofuran
 Concen: 7.987 ug/l
 RT: 7.54 min Scan# 924
 Delta R.T. 0.01 min
 Lab File: VW012817.D
 Acq: 09 Sep 2019 13:23

Tgt Ion	Ratio	Lower	Upper
42	100		
72	18.7	28.4	42.6#
71	19.7	27.1	40.7#



Abundance Ion 42.00 (41.70 to 42.70): VW
 Ion 72.00 (71.70 to 72.70): VW
 Ion 71.00 (70.70 to 71.70): VW

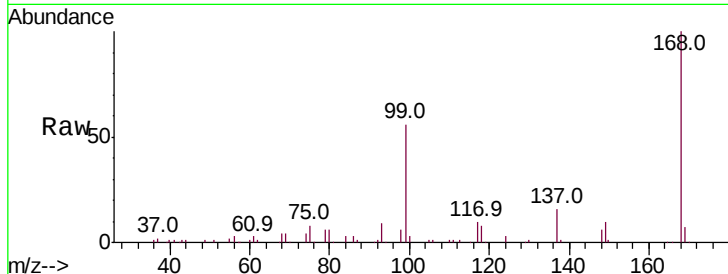




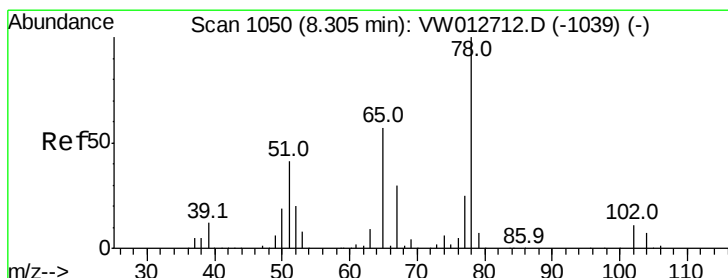
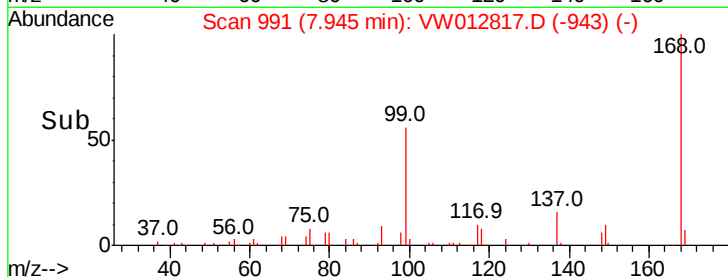
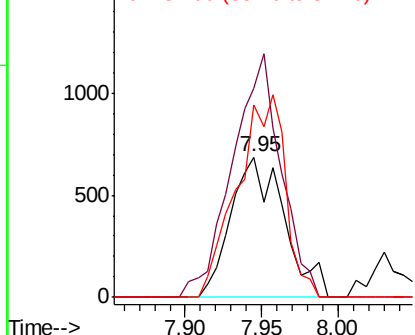
#31
Cyclohexane
Concen: 1.571 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW012817.D
Acq: 09 Sep 2019 13:23

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 1663
Ion Ratio Lower Upper
56 100
69 148.9 25.7 38.5#
84 137.6 60.4 90.6#

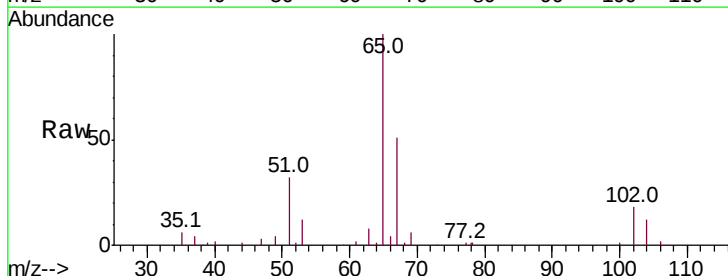


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

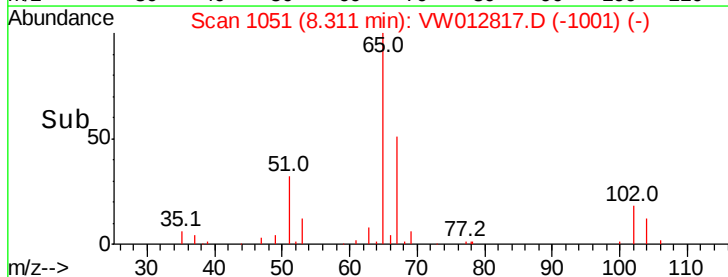
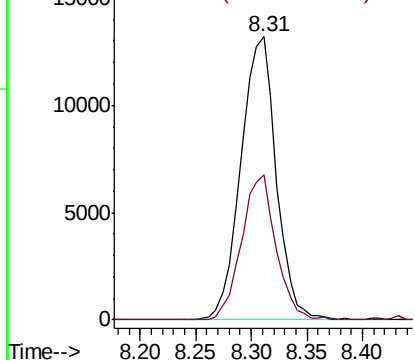


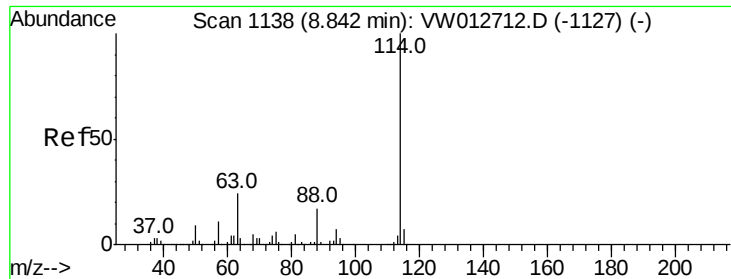
#33
1,2-Dichloroethane-d4
Concen: 40.421 ug/l
RT: 8.31 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VW012817.D
Acq: 09 Sep 2019 13:23

Tgt Ion: 65 Resp: 29102
Ion Ratio Lower Upper
65 100
67 49.9 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

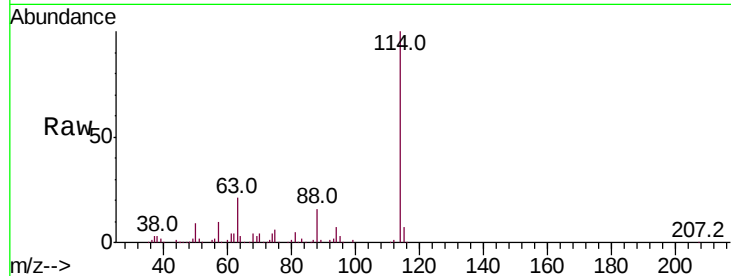




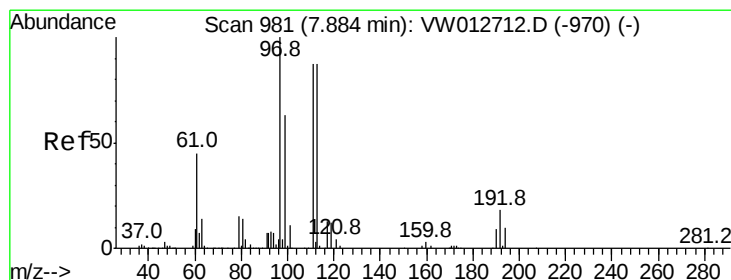
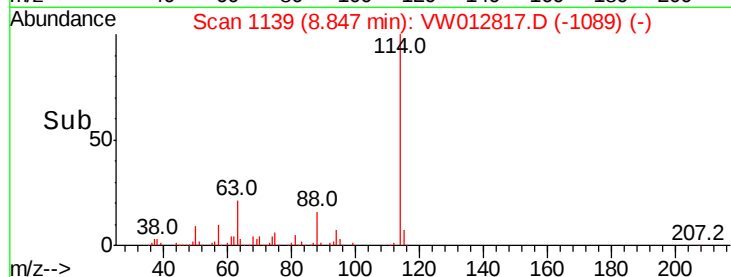
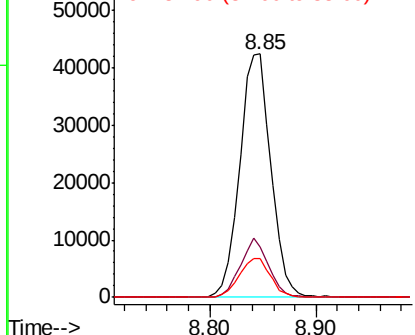
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.85 min Scan# 1139
Delta R.T. 0.01 min
Lab File: VW012817.D
Acq: 09 Sep 2019 13:23

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:114 Resp: 87272
Ion Ratio Lower Upper
114 100
63 20.6 0.0 47.2
88 15.8 0.0 34.0

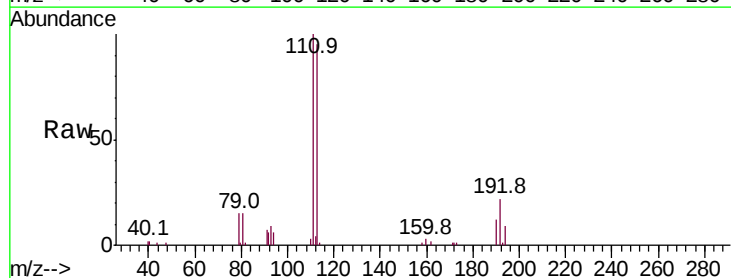


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VW
Ion 87.90 (87.60 to 88.60): VW

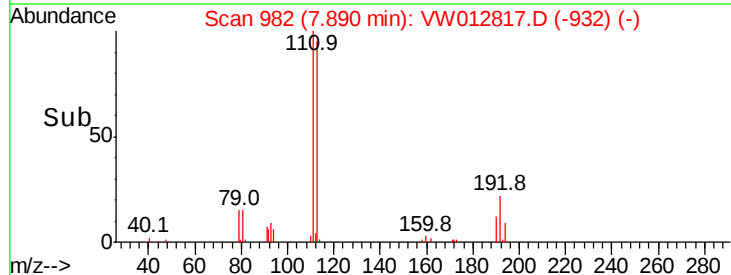
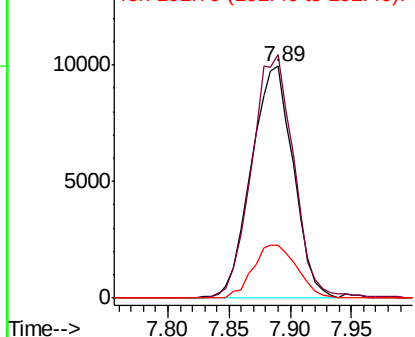


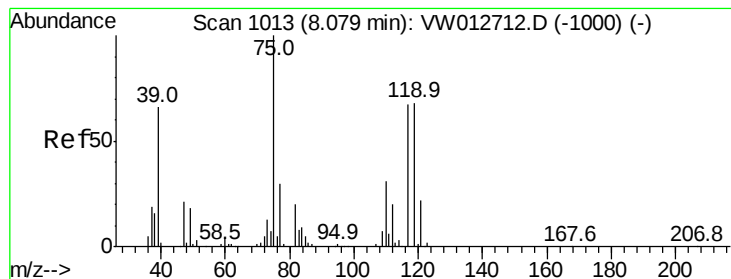
#35
Dibromofluoromethane
Concen: 45.853 ug/l
RT: 7.89 min Scan# 982
Delta R.T. 0.01 min
Lab File: VW012817.D
Acq: 09 Sep 2019 13:23

Tgt Ion:113 Resp: 23791
Ion Ratio Lower Upper
113 100
111 105.6 80.2 120.4
192 23.9 17.3 25.9



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 6.129 ug/l

RT: 7.95 min Scan# 992

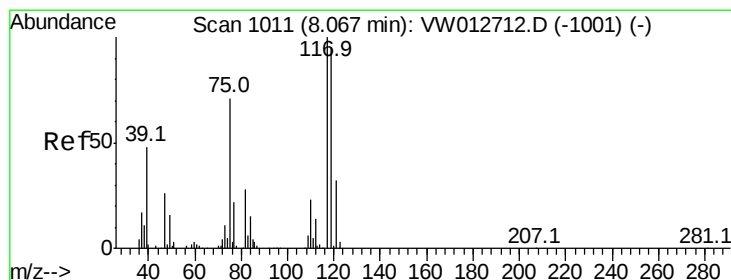
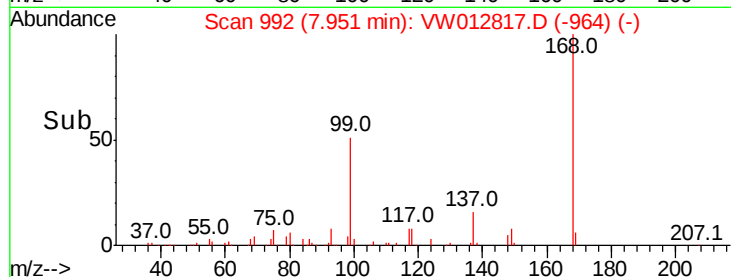
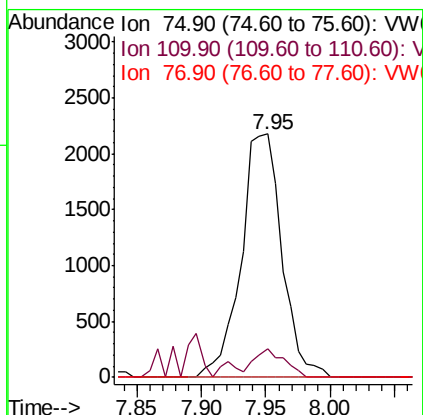
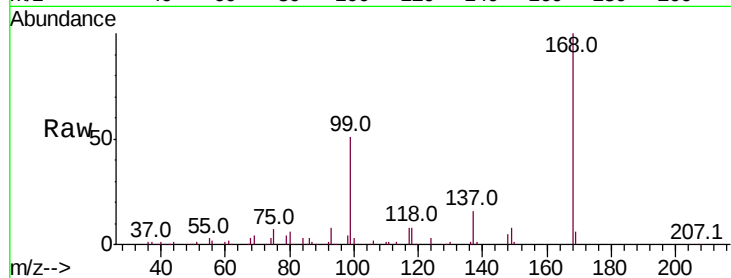
Delta R.T. -0.13 min

Lab File: VW012817.D

Acq: 09 Sep 2019 13:23

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:	75	Resp:	4753
Ion	Ratio	Lower	Upper
75	100		
110	8.5	15.9	47.7#
77	0.0	25.0	37.4#



#38

Carbon Tetrachloride

Concen: 7.992 ug/l

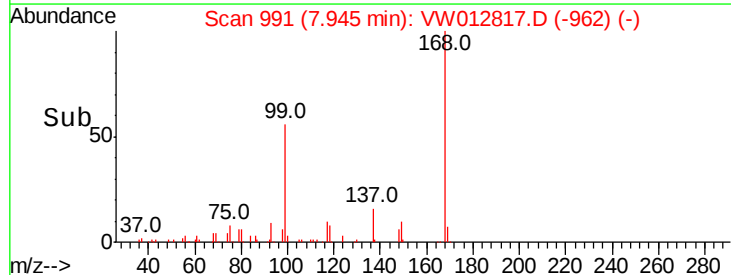
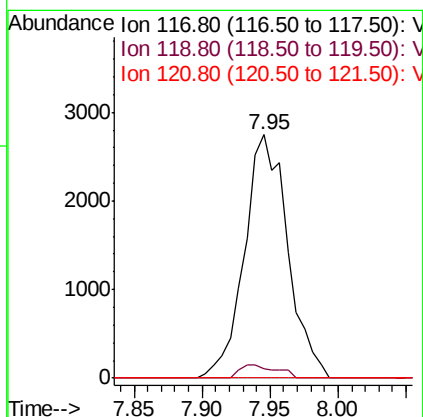
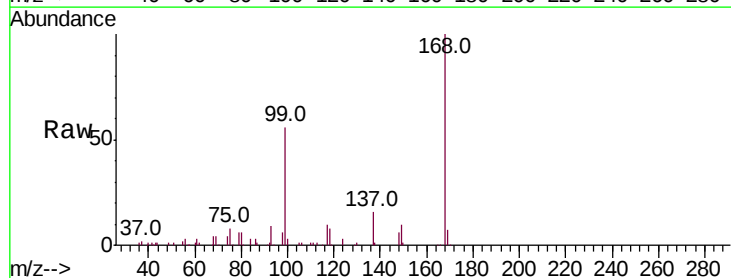
RT: 7.95 min Scan# 991

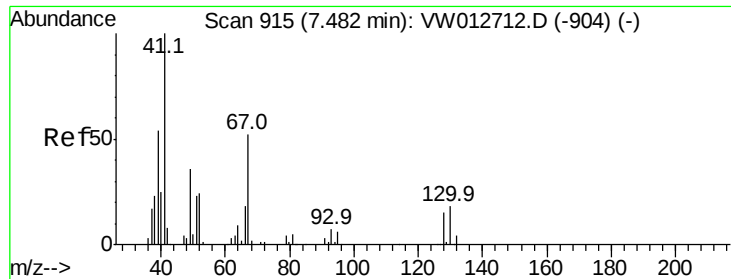
Delta R.T. -0.12 min

Lab File: VW012817.D

Acq: 09 Sep 2019 13:23

Tgt Ion:	117	Resp:	6109
Ion	Ratio	Lower	Upper
117	100		
119	4.0	76.2	114.2#
121	0.0	25.4	38.2#

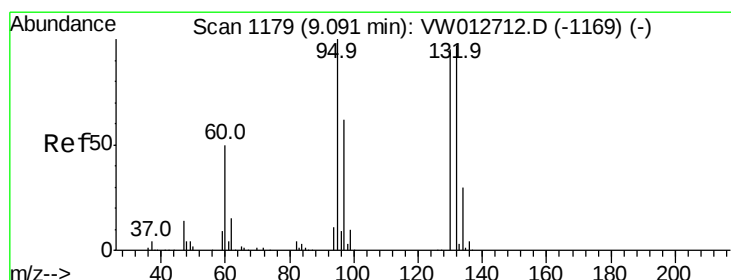
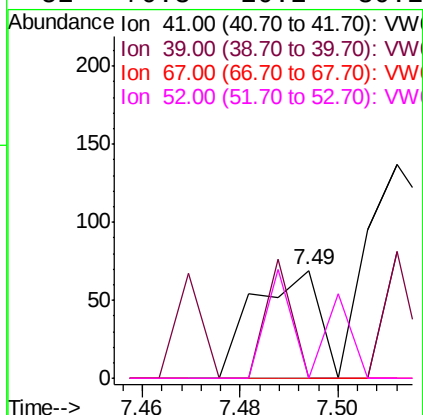
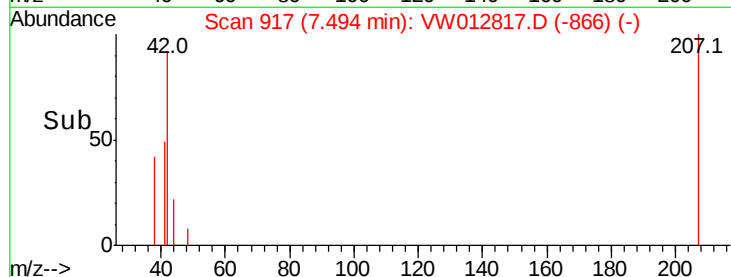
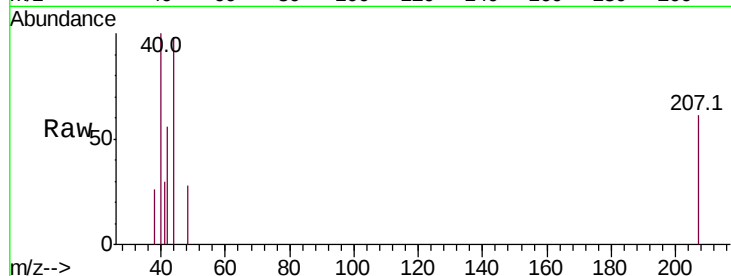




#41
Methacrylonitrile
Concen: 4.015 ug/l
RT: 7.49 min Scan# 917
Delta R.T. 0.01 min
Lab File: VW012817.D
Acq: 09 Sep 2019 13:23

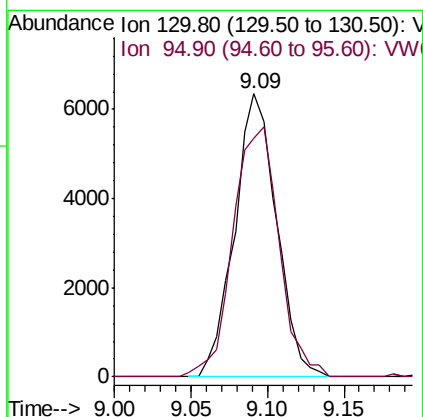
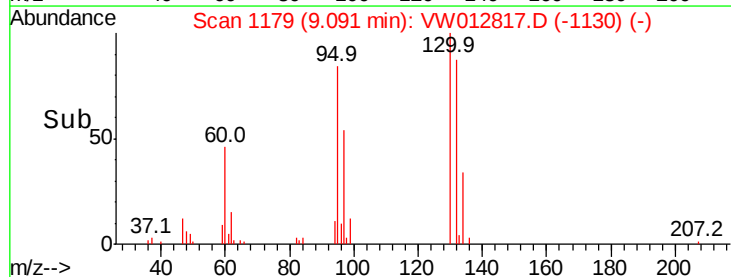
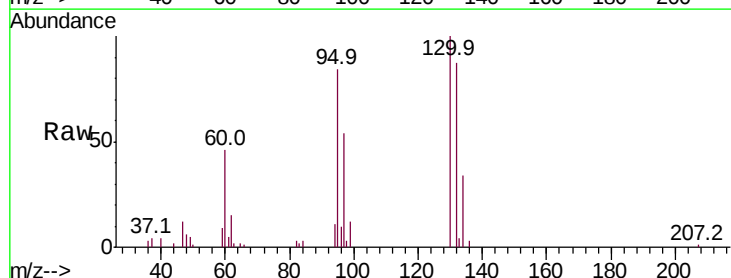
Instrument :
MSVOA_W
ClientSampled :

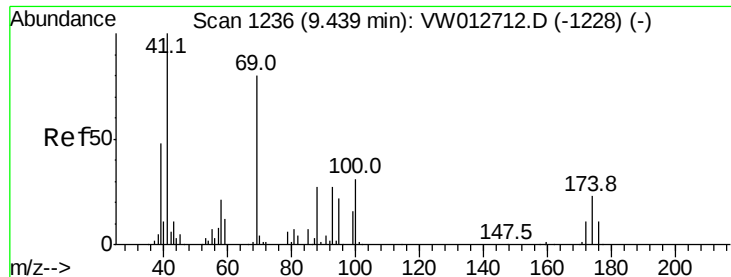
Tot Ion: 41 Resp: 64
Ion Ratio Lower Upper
41 100
39 43.8 47.5 71.3#
67 0.0 45.1 67.7#
52 70.3 20.2 30.2#



#44
Trichloroethene
Concen: 21.793 ug/l
RT: 9.09 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VW012817.D
Acq: 09 Sep 2019 13:23

Tgt Ion: 130 Resp: 12086
Ion Ratio Lower Upper
130 100
95 84.3 0.0 210.6

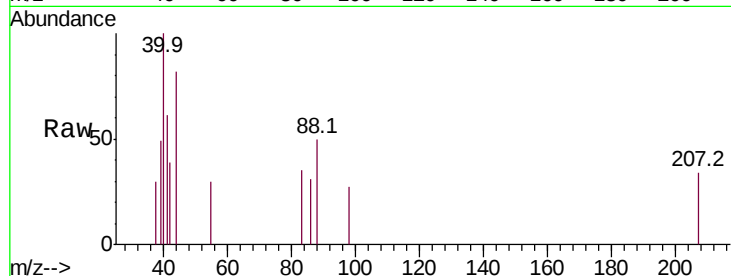




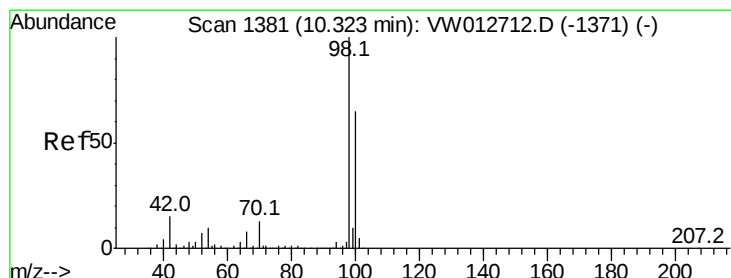
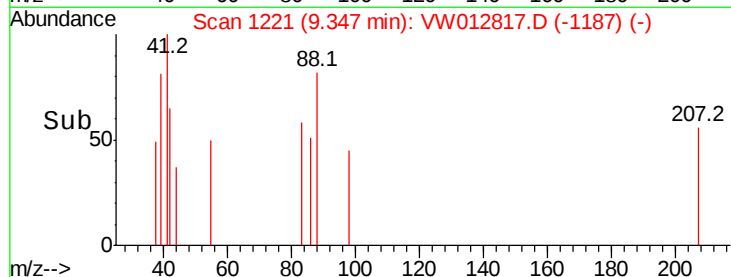
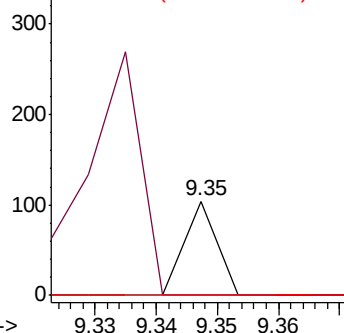
#49
1,4-Dioxane
Concen: 6.808 ug/l
RT: 9.35 min Scan# 1221
Delta R.T. -0.09 min
Lab File: VW012817.D
Acq: 09 Sep 2019 13:23

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 88 Resp: 38
Ion Ratio Lower Upper
88 100
43 560.5 34.8 52.2#
58 0.0 64.1 96.1#

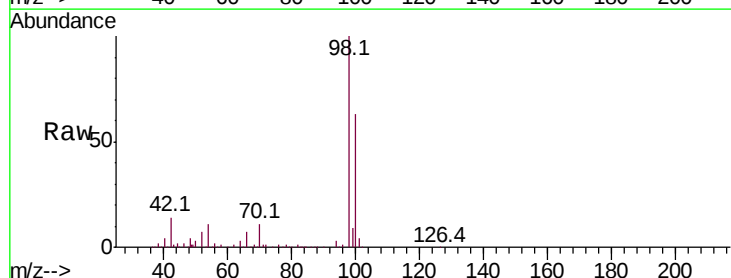


Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

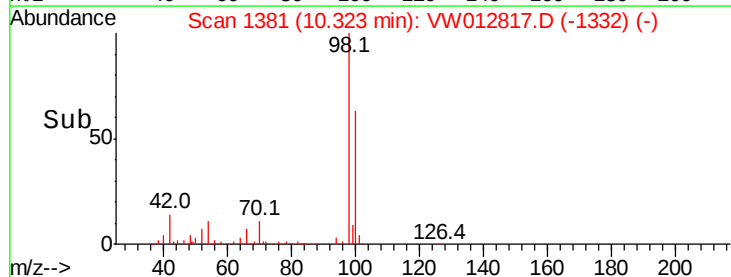
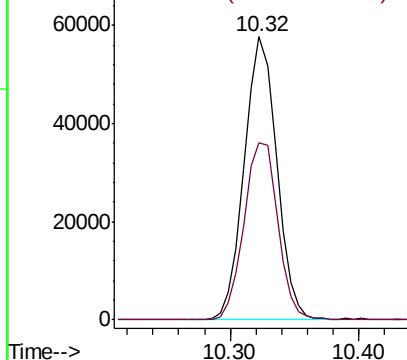


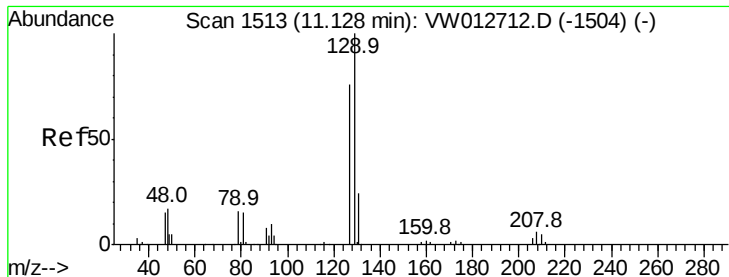
#50
Toluene-d8
Concen: 49.520 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012817.D
Acq: 09 Sep 2019 13:23

Tgt Ion: 98 Resp: 100663
Ion Ratio Lower Upper
98 100
100 65.6 52.2 78.4



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





#60

Dibromochloromethane

Concen: 125.427 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW012817.D

Acq: 09 Sep 2019 13:23

Instrument :

MSVOA_W

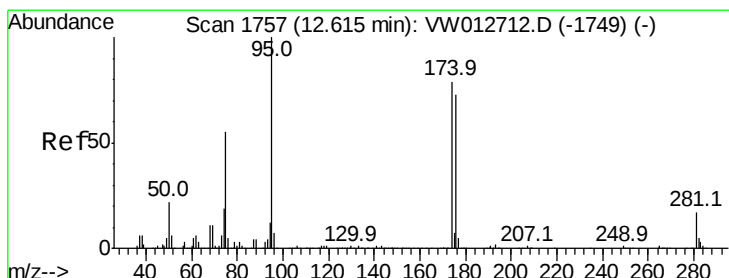
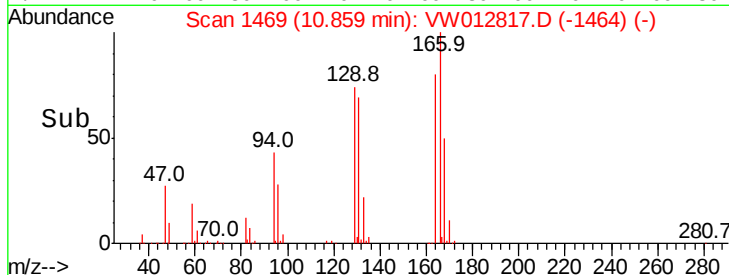
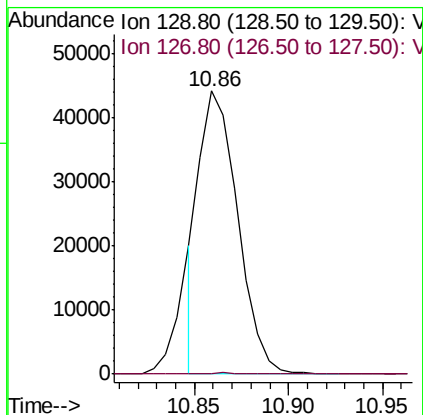
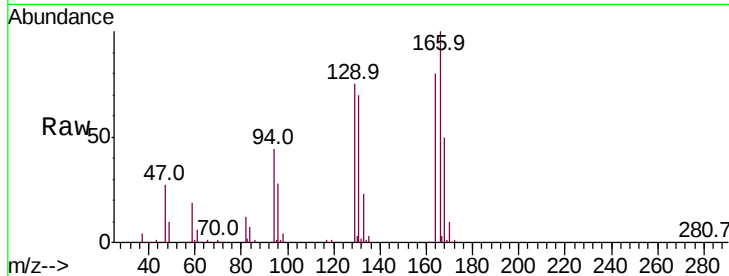
ClientSampleId :

Tot Ion:129 Resp: 62403

Ion Ratio Lower Upper

129 100

127 0.1 38.6 115.8#



#62

4-Bromofluorobenzene

Concen: 35.144 ug/l

RT: 12.61 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012817.D

Acq: 09 Sep 2019 13:23

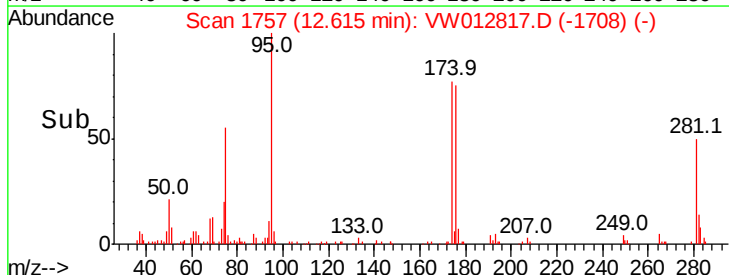
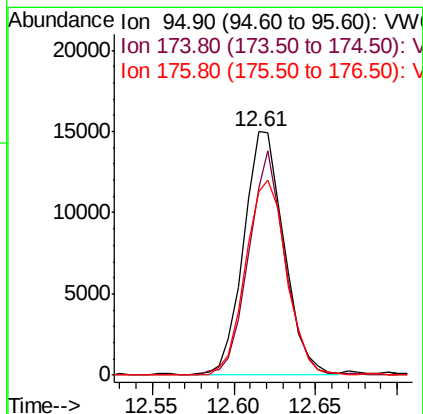
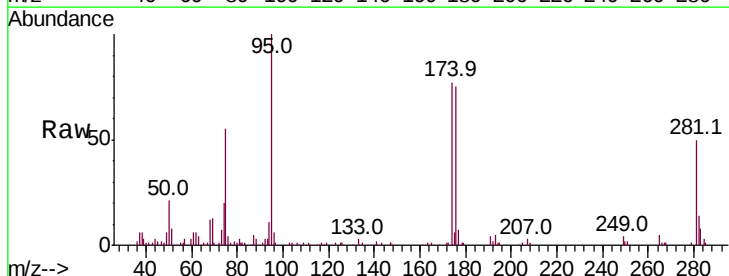
Tgt Ion: 95 Resp: 25935

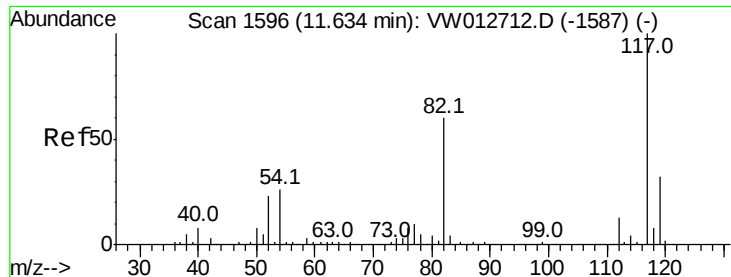
Ion Ratio Lower Upper

95 100

174 82.4 0.0 161.0

176 80.8 0.0 156.4

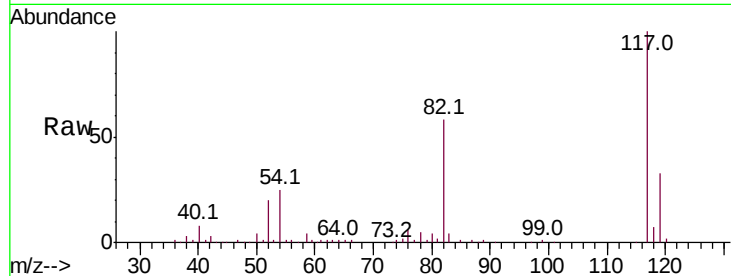




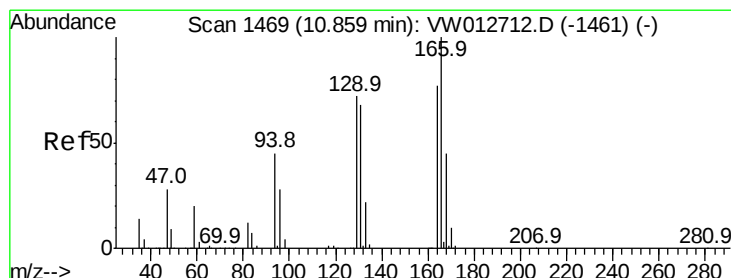
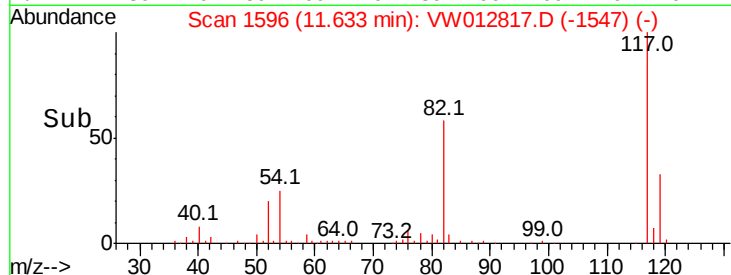
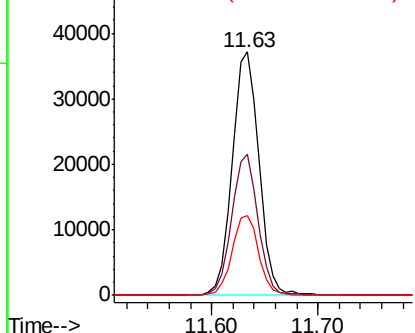
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012817.D
Acq: 09 Sep 2019 13:23

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 65505
Ion Ratio Lower Upper
117 100
82 58.0 48.2 72.4
119 32.9 25.8 38.6

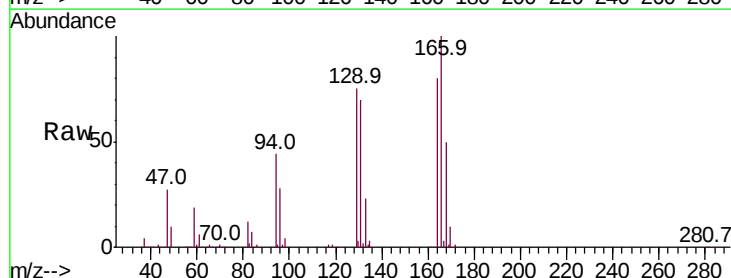


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

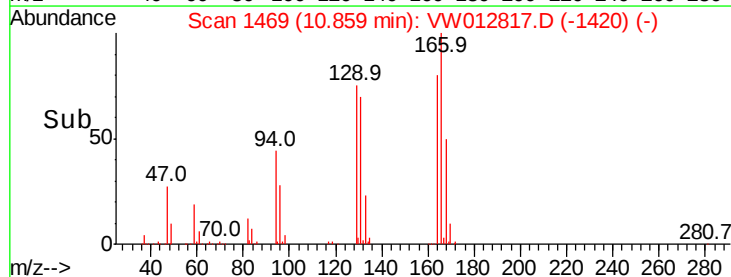
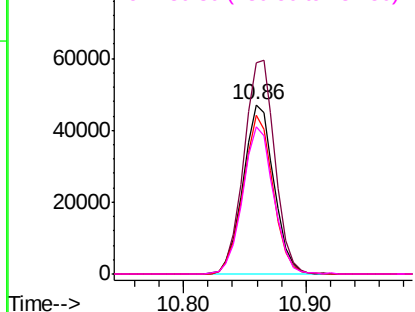


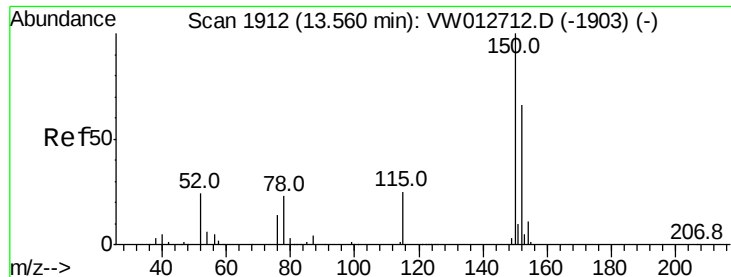
#64
Tetrachloroethene
Concen: 208.053 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW012817.D
Acq: 09 Sep 2019 13:23

Tgt Ion:164 Resp: 82695
Ion Ratio Lower Upper
164 100
166 124.8 103.6 155.4
129 93.4 74.6 112.0
131 86.8 70.6 106.0



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012817.D

Acq: 09 Sep 2019 13:23

Instrument :

MSVOA_W

ClientSampleId :

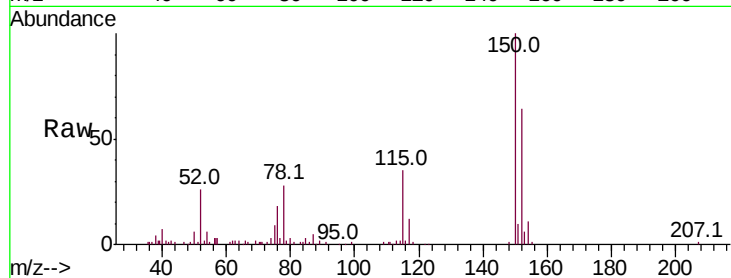
Tot Ion:152 Resp: 18553

Ion Ratio Lower Upper

152 100

115 58.3 30.0 90.1

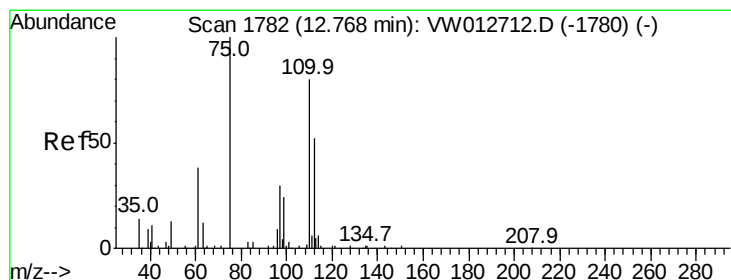
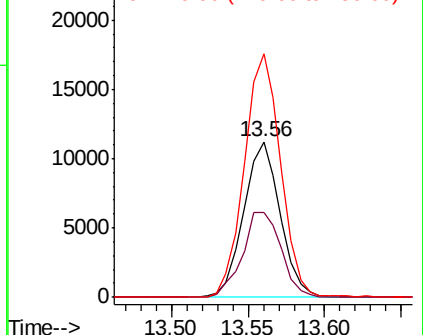
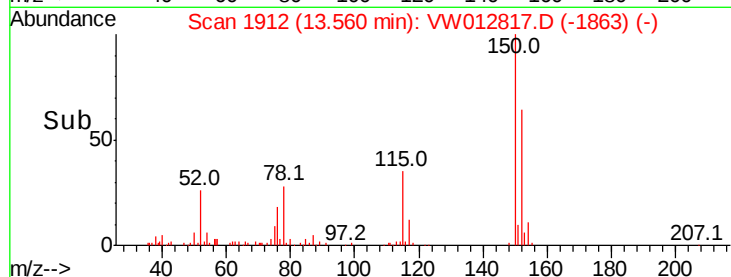
150 155.5 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 71.592 ug/l

RT: 12.61 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012817.D

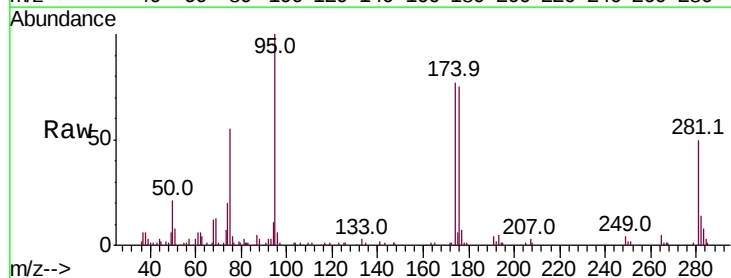
Acq: 09 Sep 2019 13:23

Tgt Ion: 75 Resp: 13582

Ion Ratio Lower Upper

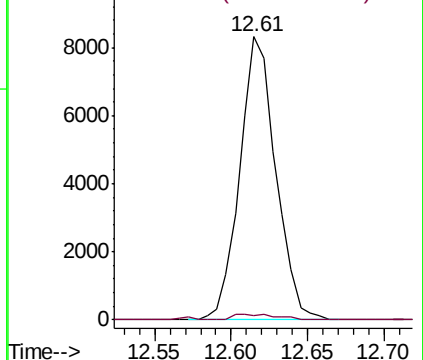
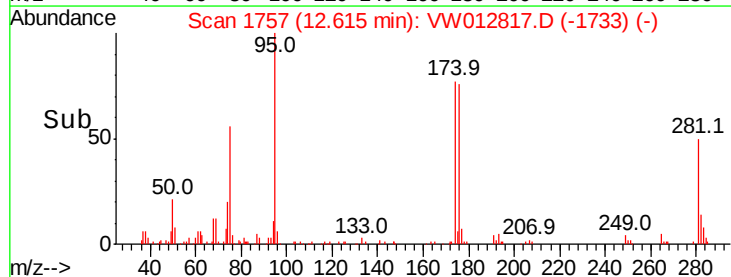
75 100

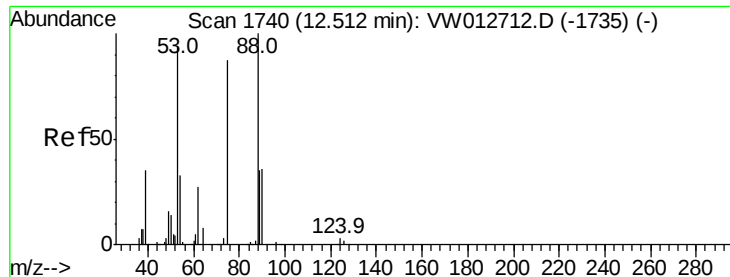
77 2.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 151.423 ug/l

RT: 12.61 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012817.D

Acq: 09 Sep 2019 13:23

Instrument :

MSVOA_W

ClientSampleId :

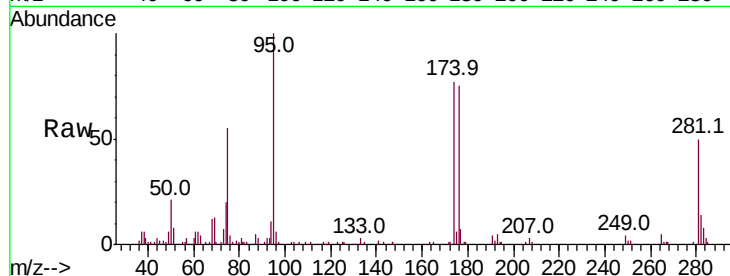
Tot Ion: 75 Resp: 13582

Ion Ratio Lower Upper

75 100

53 0.2 87.6 131.4#

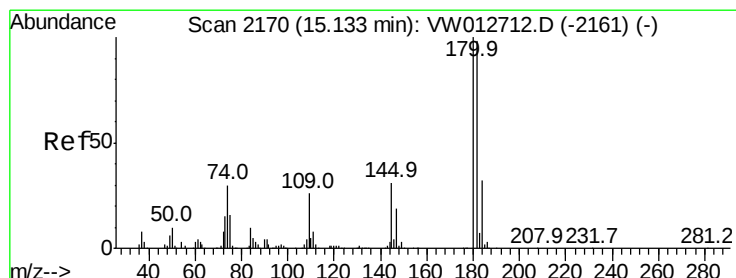
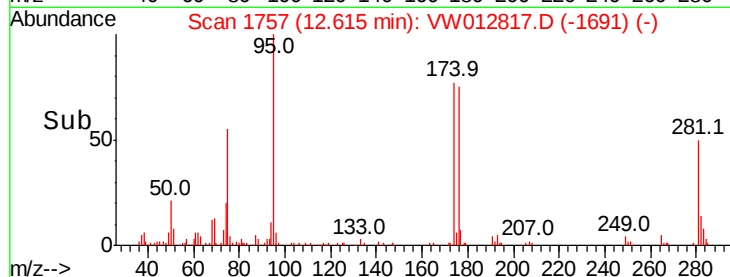
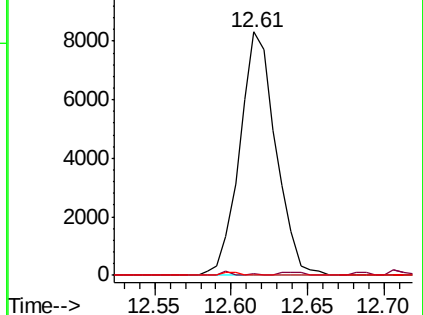
89 0.0 35.5 53.3#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#93

1,2,4-Trichlorobenzene

Concen: 1.072 ug/l

RT: 15.14 min Scan# 2171

Delta R.T. 0.01 min

Lab File: VW012817.D

Acq: 09 Sep 2019 13:23

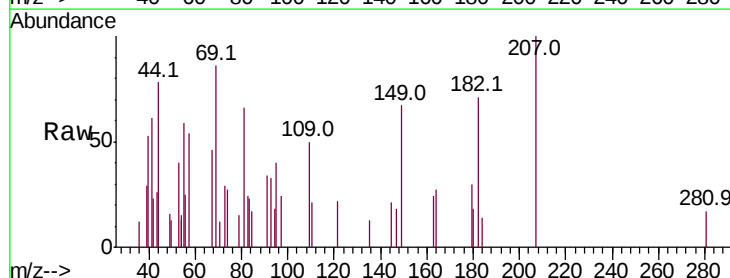
Tgt Ion: 180 Resp: 398

Ion Ratio Lower Upper

180 100

182 83.4 48.7 146.1

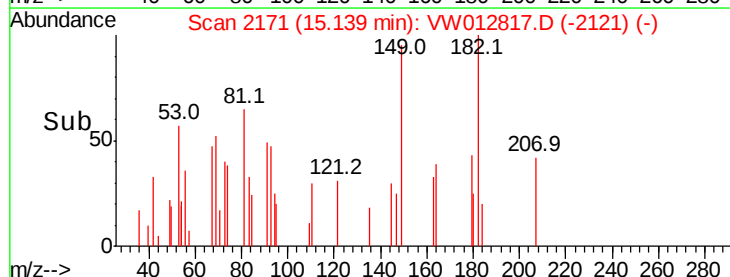
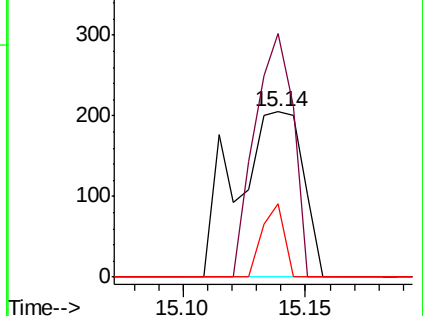
145 14.3 15.0 45.1#

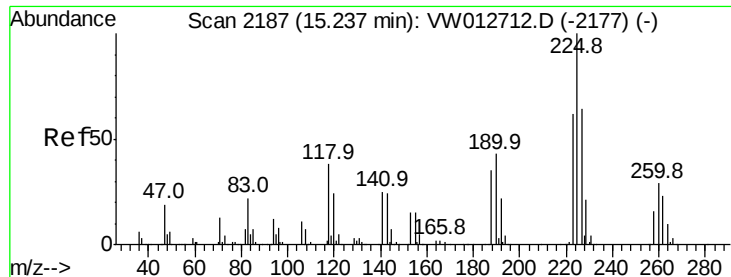


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 1.066 ug/l

RT: 15.24 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VW012817.D

Acq: 09 Sep 2019 13:23

Instrument :

MSVOA_W

ClientSampleId :

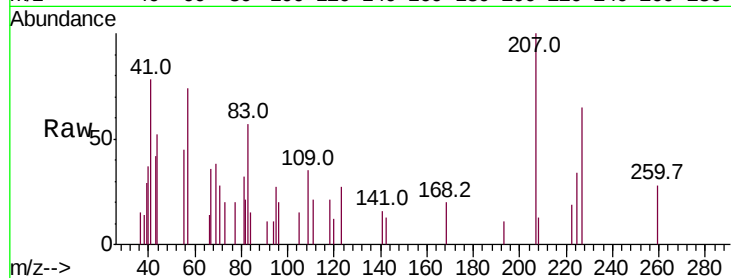
Tot Ion:225 Resp: 274

Ion Ratio Lower Upper

225 100

223 68.2 31.1 93.3

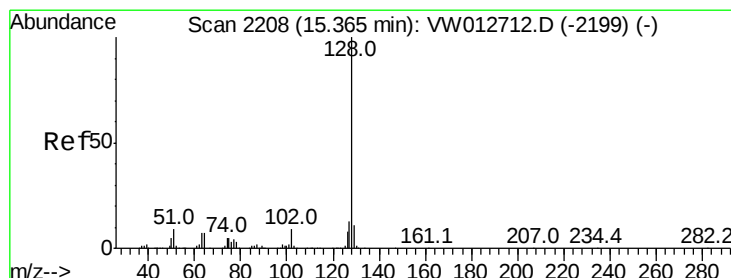
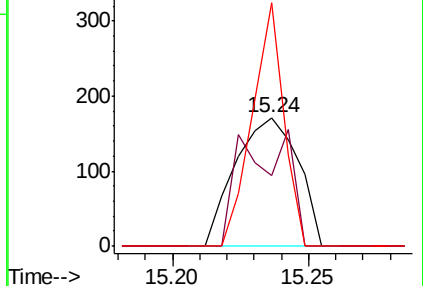
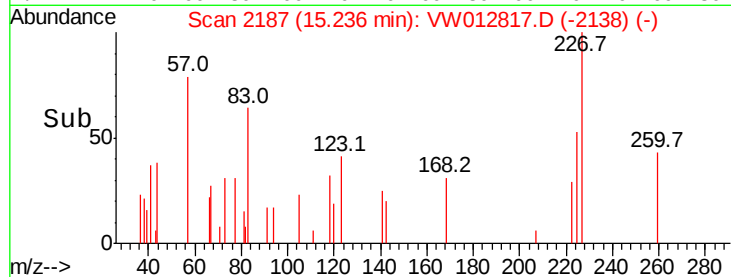
227 94.9 31.4 94.2#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 5.175 ug/l

RT: 15.36 min Scan# 2207

Delta R.T. -0.01 min

Lab File: VW012817.D

Acq: 09 Sep 2019 13:23

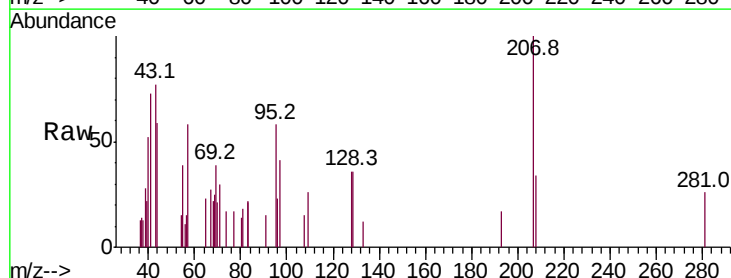
Tgt Ion:128 Resp: 629

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

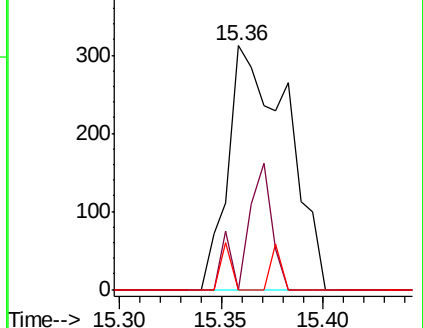
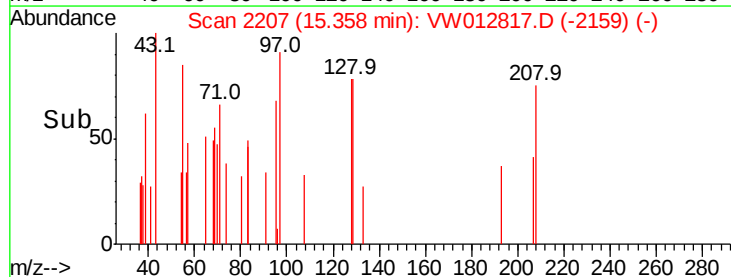
129 3.5 8.7 13.1#

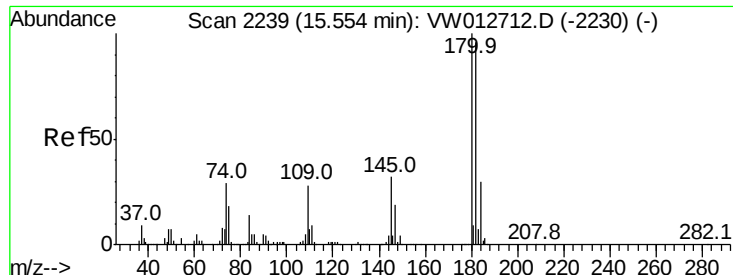


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.602 ug/l
 RT: 15.55 min Scan# 2238
 Delta R.T. -0.01 min
 Lab File: VW012817.D
 Acq: 09 Sep 2019 13:23

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	64.6	47.8	143.3
145	30.1	15.4	46.2

