

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW080319\
 Data File : VW011642.D
 Acq On : 03 Aug 2019 02:08
 Operator : SY/VA
 Sample : K4131-07
 Misc : 5.46G/5ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 1S-D1-(30)

Quant Time: Aug 04 00:08:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	266120	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	448342	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	367686	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	140287	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	171581	56.15	ug/l	0.00
Spiked Amount			Recovery	=	112.30%	
35) Dibromofluoromethane	7.88	113	135117	53.72	ug/l	0.00
Spiked Amount			Recovery	=	107.44%	
50) Toluene-d8	10.32	98	549045	53.31	ug/l	0.00
Spiked Amount			Recovery	=	106.62%	
62) 4-Bromofluorobenzene	12.62	95	172241	46.91	ug/l	0.00
Spiked Amount			Recovery	=	93.82%	

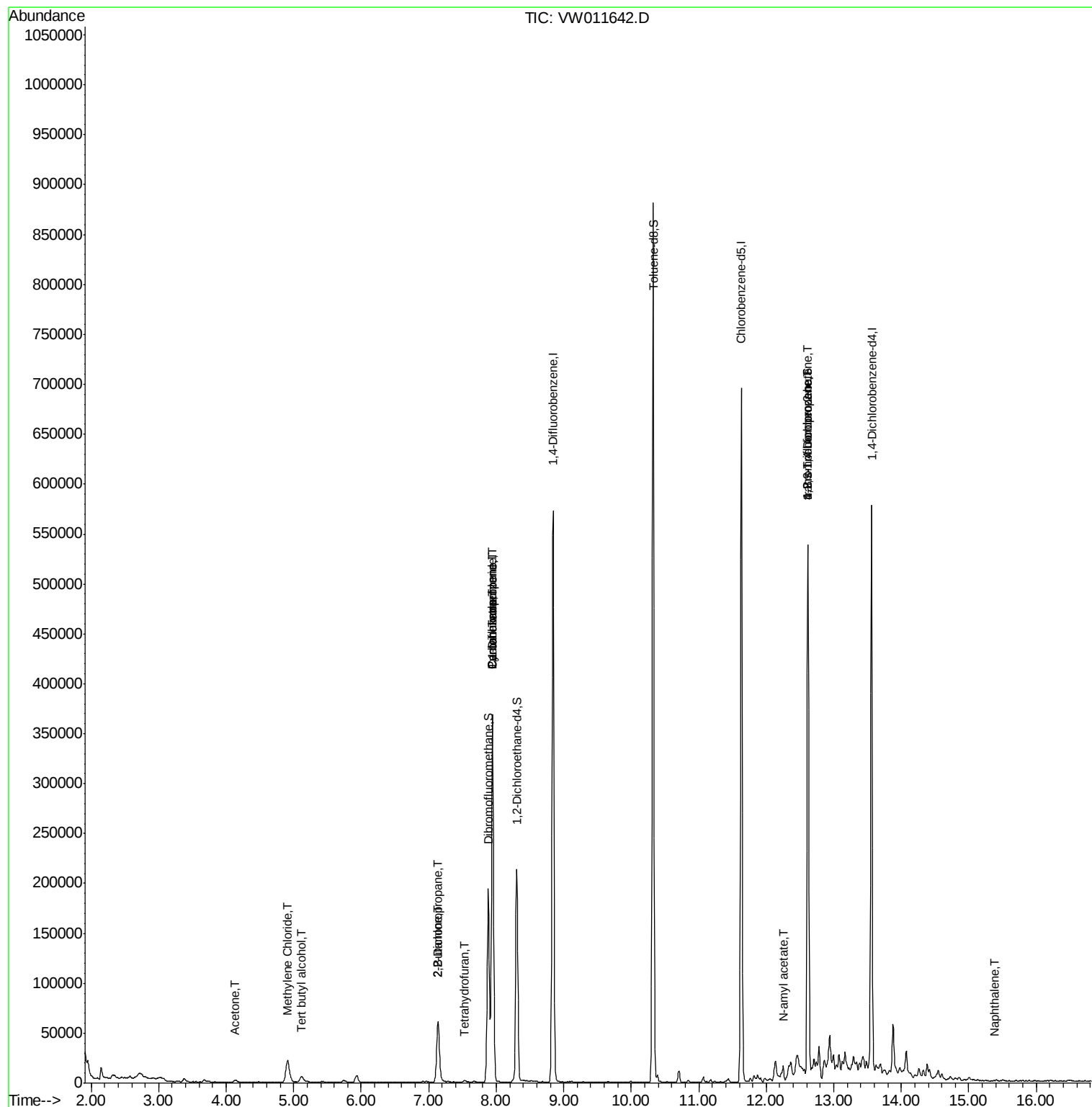
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.11	59	5284	6.030	ug/l #	72
16) Acetone	4.13	43	4154	4.273	ug/l #	79
20) Methylene Chloride	4.91	84	15809	4.716	ug/l	93
25) 2-Butanone	7.13	43	4088	3.214	ug/l #	76
26) 2,2-Dichloropropane	7.13	77	4550	1.243	ug/l #	54
29) Tetrahydrofuran	7.53	42	1358	1.868	ug/l #	82
31) Cyclohexane	7.95	56	6501	1.138	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	23254	4.988	ug/l #	52
38) Carbon Tetrachloride	7.95	117	27349	6.853	ug/l #	16
74) N-amyl acetate	12.26	43	4002	1.221	ug/l #	47
76) 1,2,3-Trichloropropane	12.62	75	91794	61.839	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	91794	142.518	ug/l #	7
95) Naphthalene	15.37	128	447	2.143	ug/l #	69

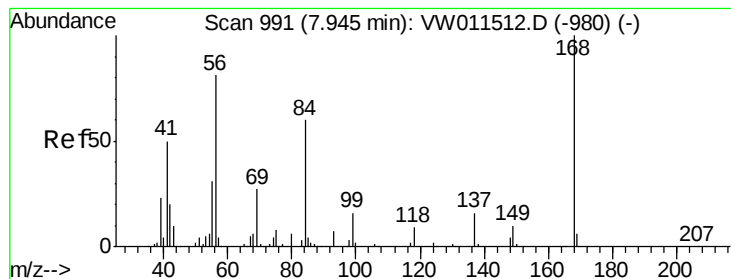
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW011642.D

Acq: 03 Aug 2019 02:08

Instrument :

MSVOA_W

ClientSampleId :

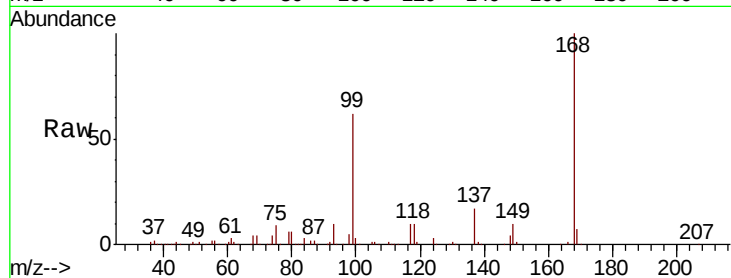
1S-D1-(30)

Tgt Ion:168 Resp: 266120

Ion Ratio Lower Upper

168 100

99 61.6 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

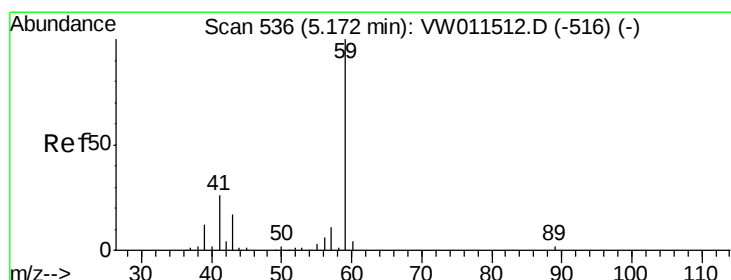
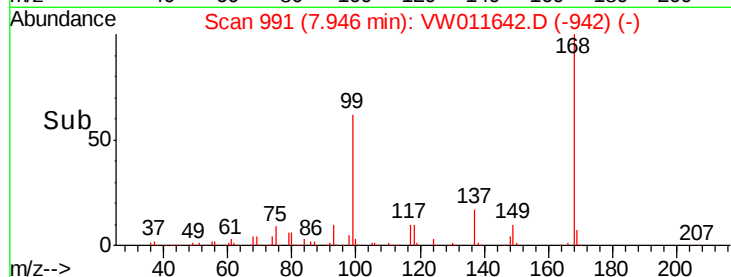
7.95

100000

50000

0

Time--> 7.80 7.90 8.00



#11

Tert butyl alcohol

Concen: 6.030 ug/l

RT: 5.11 min Scan# 526

Delta R.T. -0.06 min

Lab File: VW011642.D

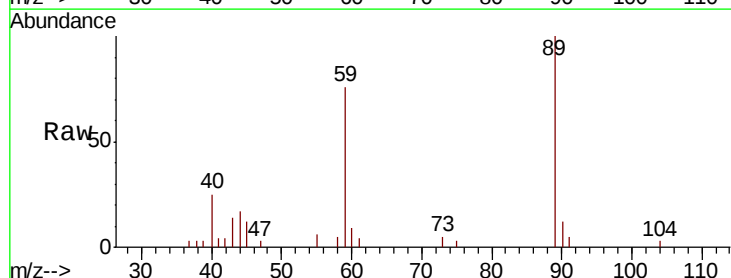
Acq: 03 Aug 2019 02:08

Tgt Ion: 59 Resp: 5284

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.11

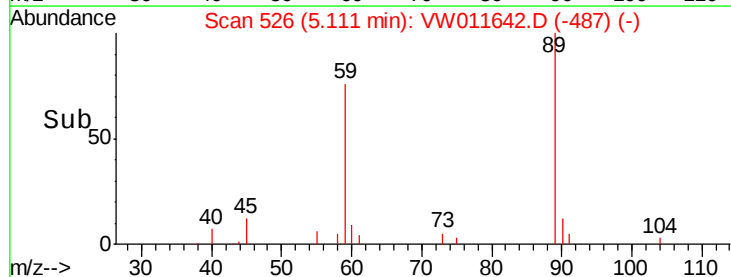
1500

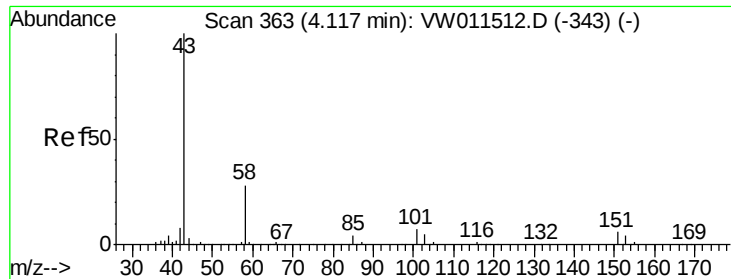
1000

500

0

Time--> 5.00 5.05 5.10 5.15 5.20

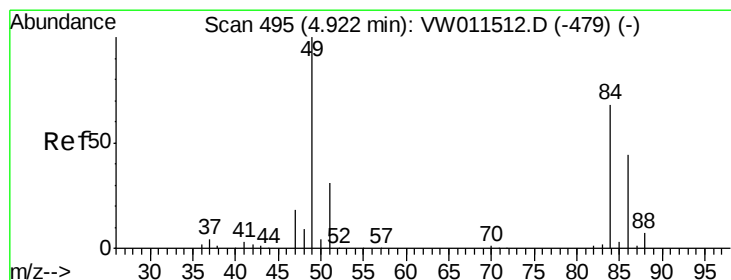
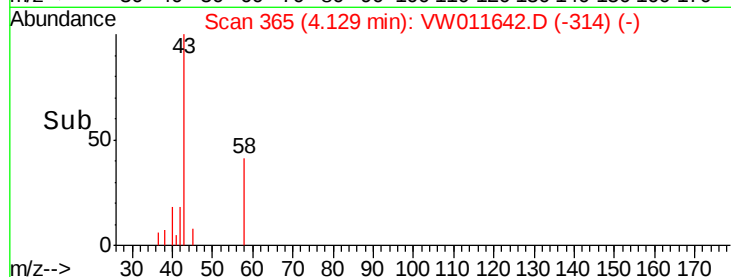
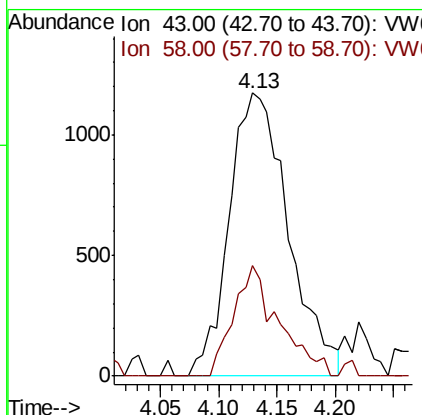
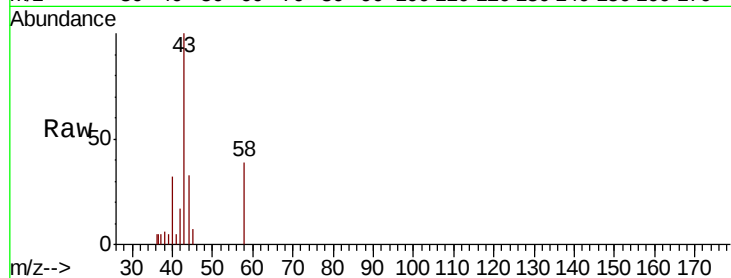




#16
Acetone
Concen: 4.273 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW011642.D
Acq: 03 Aug 2019 02:08

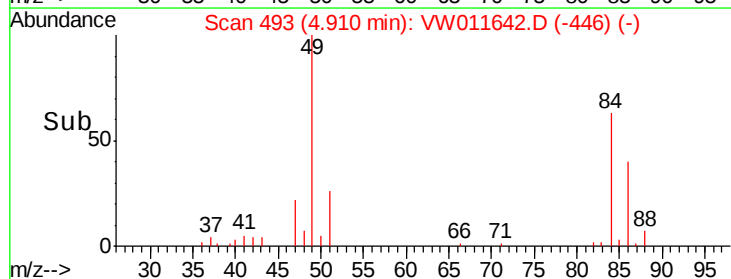
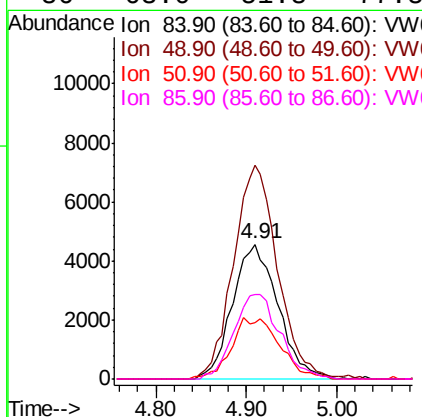
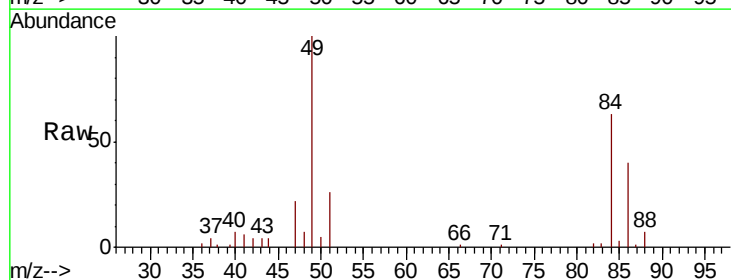
Instrument :
MSVOA_W
ClientSampleId :
1S-D1-(30)

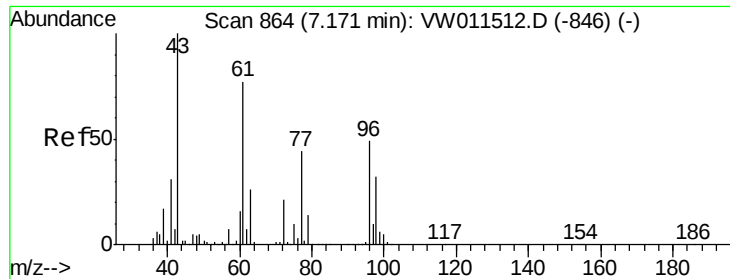
Tgt Ion: 43 Resp: 4154
Ion Ratio Lower Upper
43 100
58 39.0 22.3 33.5#



#20
Methylene Chloride
Concen: 4.716 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW011642.D
Acq: 03 Aug 2019 02:08

Tgt Ion: 84 Resp: 15809
Ion Ratio Lower Upper
84 100
49 158.8 117.8 176.6
51 41.9 37.0 55.4
86 63.0 51.8 77.8





#25

2-Butanone

Concen: 3.214 ug/l

RT: 7.13 min Scan# 857

Delta R.T. -0.04 min

Lab File: VW011642.D

Acq: 03 Aug 2019 02:08

Instrument :

MSVOA_W

ClientSampleId :

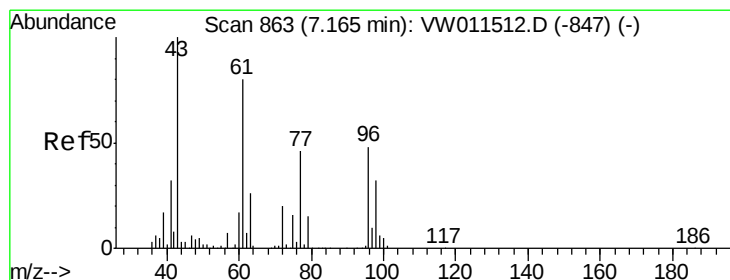
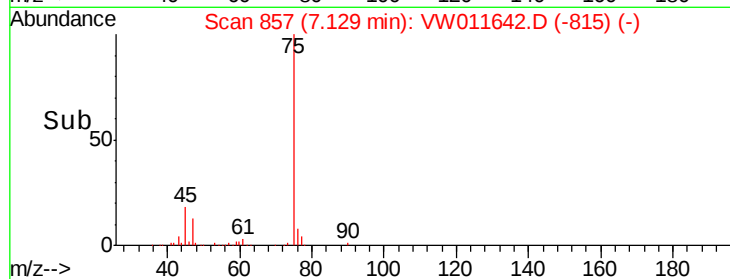
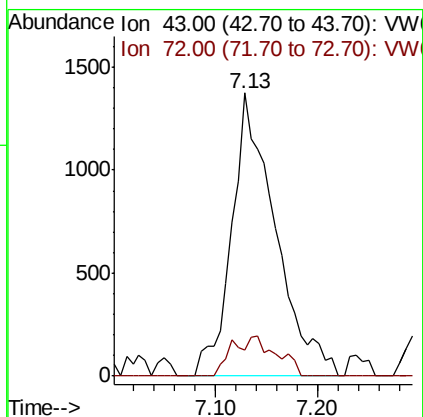
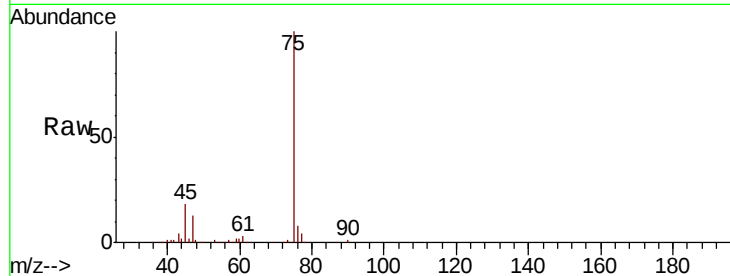
1S-D1-(30)

Tgt Ion: 43 Resp: 4088

Ion Ratio Lower Upper

43 100

72 9.4 16.6 24.8#



#26

2,2-Dichloropropane

Concen: 1.243 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW011642.D

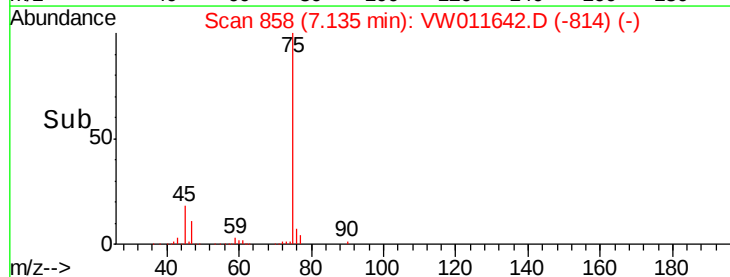
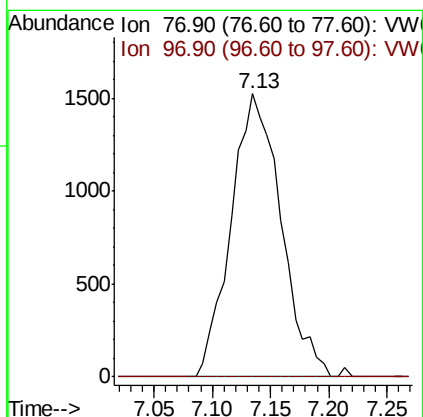
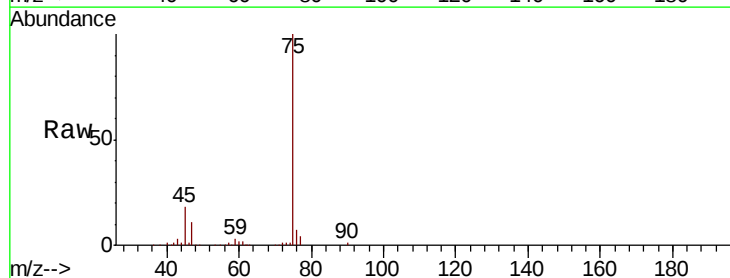
Acq: 03 Aug 2019 02:08

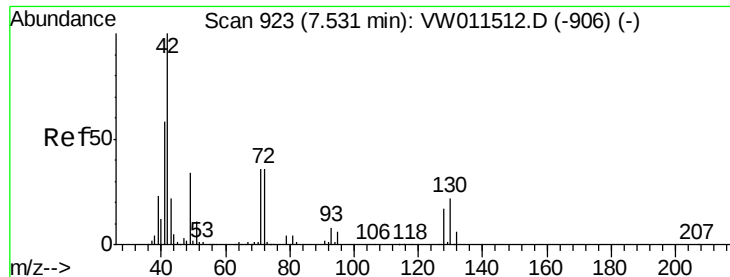
Tgt Ion: 77 Resp: 4550

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.4#





#29

Tetrahydrofuran

Concen: 1.868 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.00 min

Lab File: VW011642.D

Acq: 03 Aug 2019 02:08

Instrument :

MSVOA_W

ClientSampled :

1S-D1-(30)

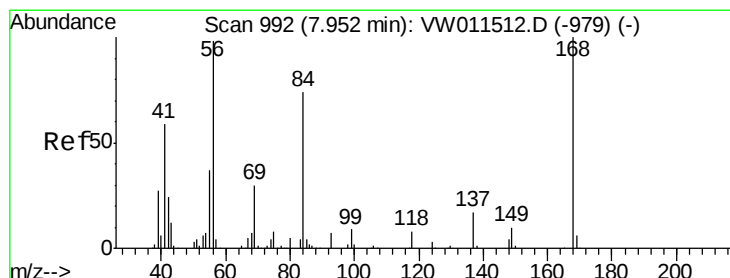
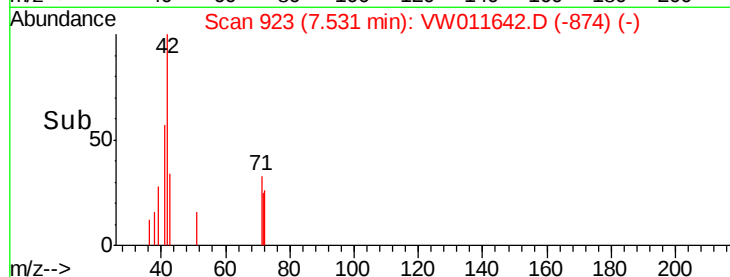
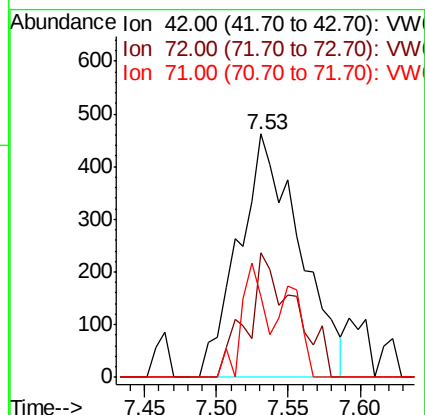
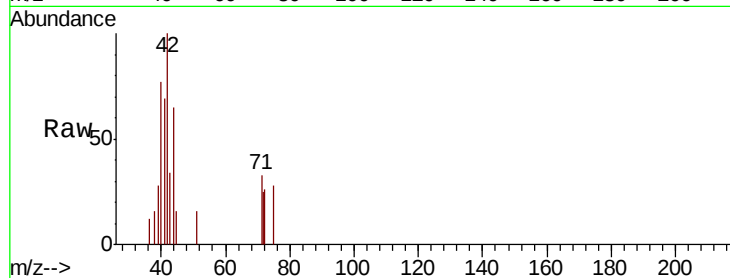
Tgt Ion: 42 Resp: 1358

Ion Ratio Lower Upper

42 100

72 39.6 27.1 40.7

71 17.6 26.2 39.4#



#31

Cyclohexane

Concen: 1.138 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011642.D

Acq: 03 Aug 2019 02:08

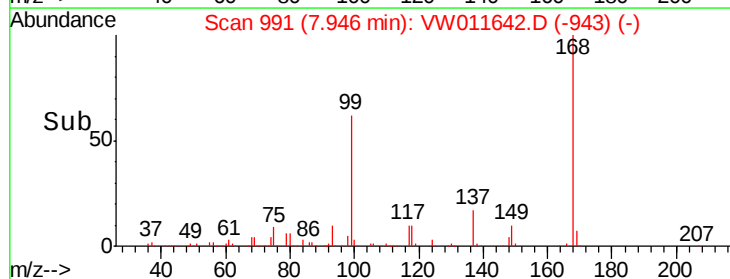
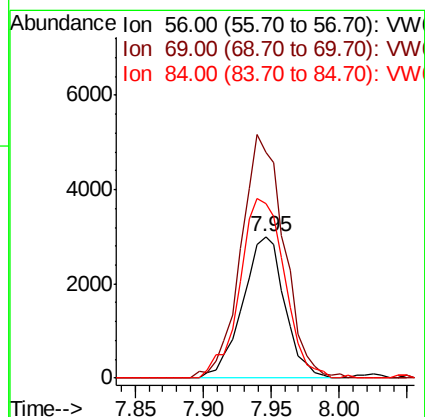
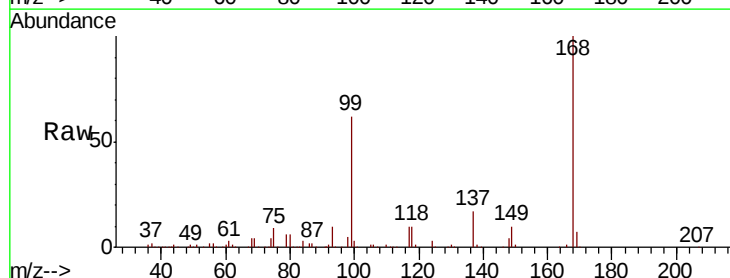
Tgt Ion: 56 Resp: 6501

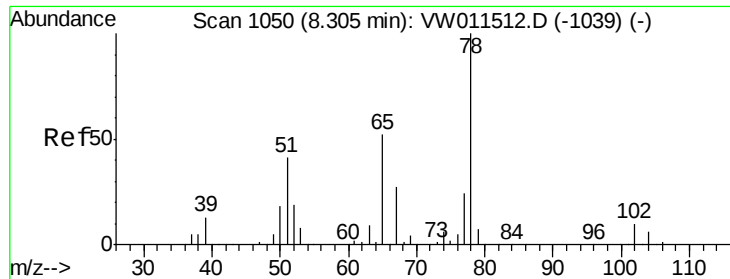
Ion Ratio Lower Upper

56 100

69 159.2 24.3 36.5#

84 123.3 60.4 90.6#

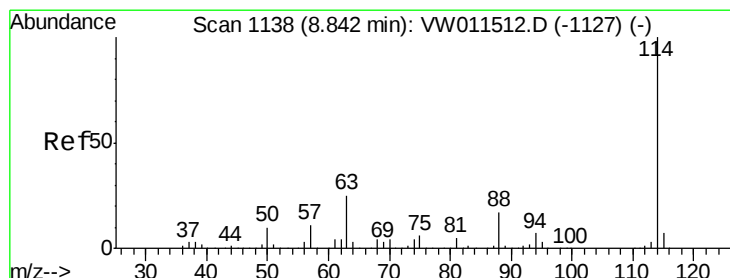
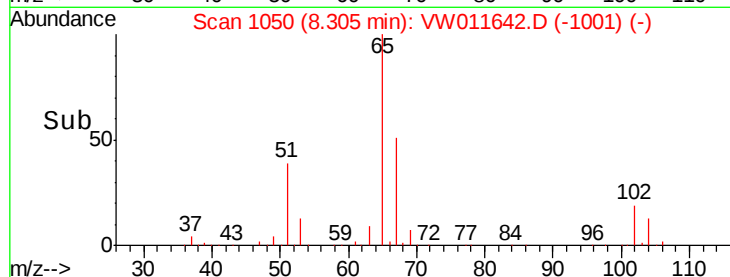
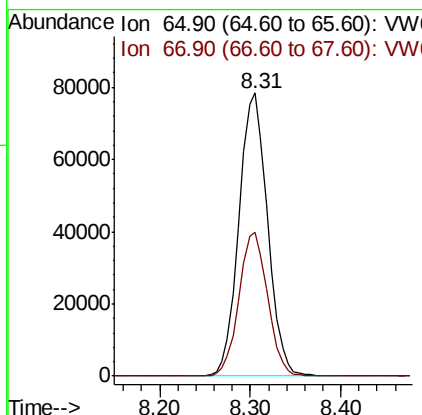
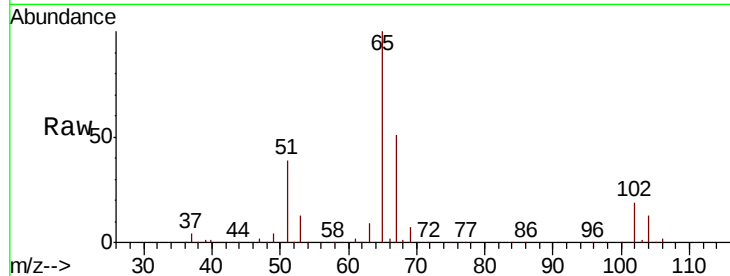




#33
 1,2-Dichloroethane-d4
 Concen: 56.149 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW011642.D
 Acq: 03 Aug 2019 02:08

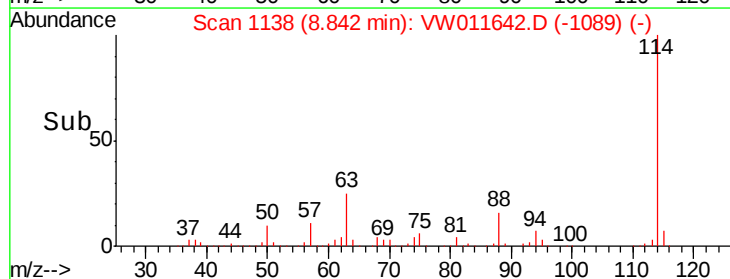
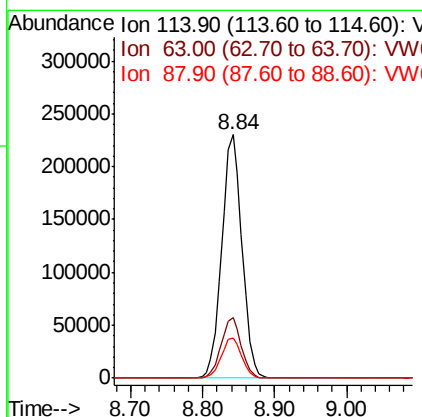
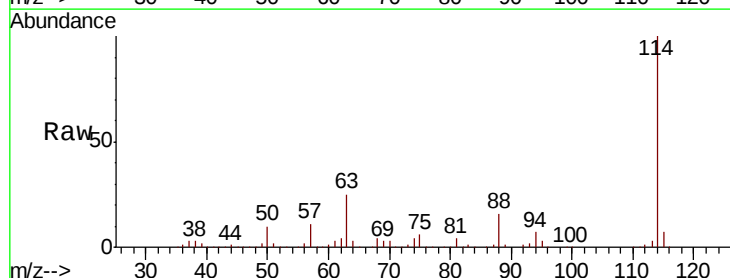
Instrument :
 MSVOA_W
 ClientSampleId :
 1S-D1-(30)

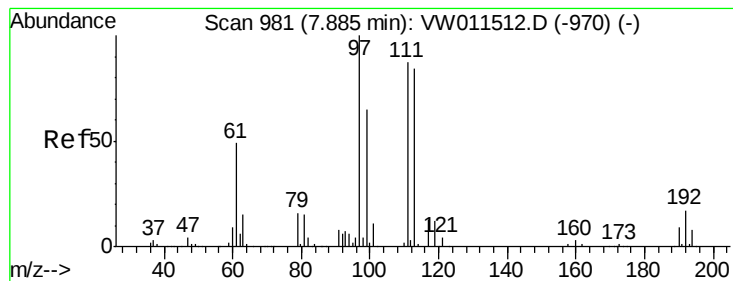
Tgt Ion: 65 Resp: 171581
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW011642.D
 Acq: 03 Aug 2019 02:08

Tgt Ion: 114 Resp: 448342
 Ion Ratio Lower Upper
 114 100
 63 24.8 0.0 49.2
 88 16.2 0.0 33.8





#35

Dibromofluoromethane

Concen: 53.719 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW011642.D

Acq: 03 Aug 2019 02:08

Instrument :

MSVOA_W

ClientSampleId :

1S-D1-(30)

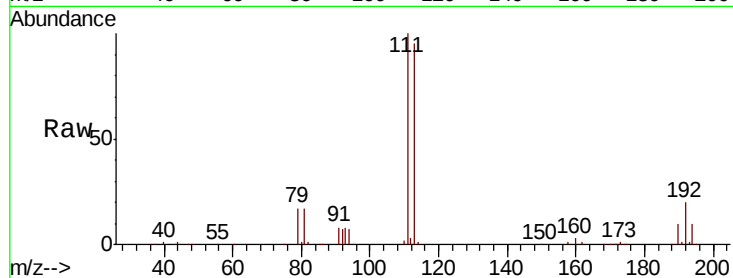
Tgt Ion:113 Resp: 135117

Ion Ratio Lower Upper

113 100

111 104.1 82.7 124.1

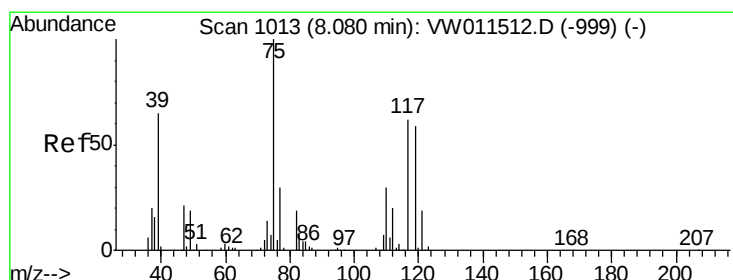
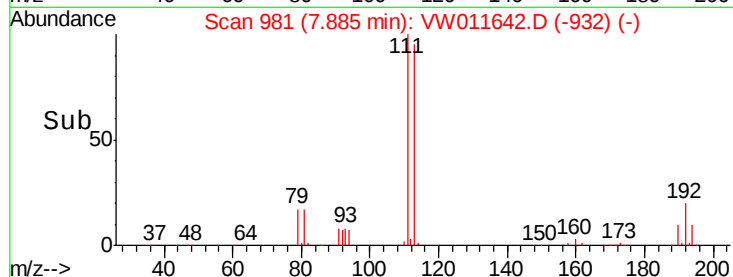
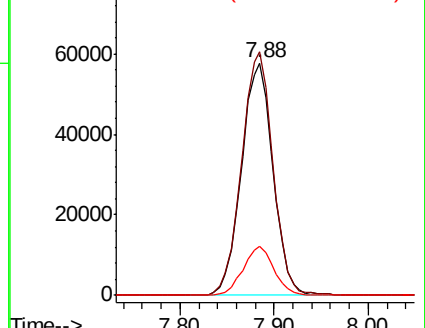
192 20.4 16.1 24.1



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: 4.988 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW011642.D

Acq: 03 Aug 2019 02:08

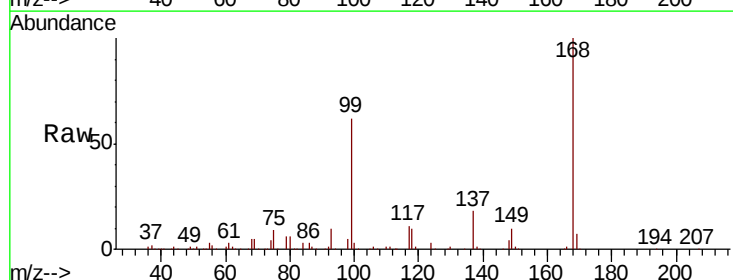
Tgt Ion: 75 Resp: 23254

Ion Ratio Lower Upper

75 100

110 9.1 15.6 46.8#

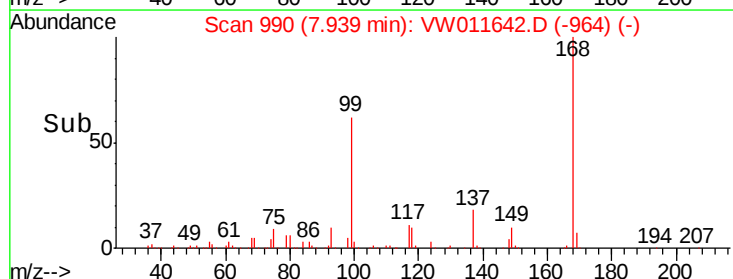
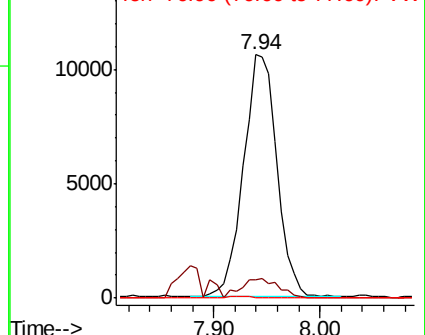
77 0.4 24.3 36.5#

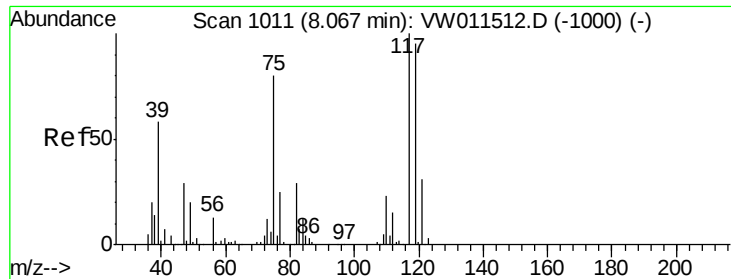


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.853 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011642.D

Acq: 03 Aug 2019 02:08

Instrument :

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1S-D1-(30)

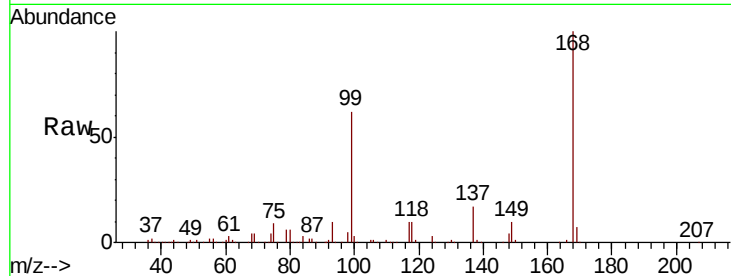
Tgt Ion:117 Resp: 27349

Ion Ratio Lower Upper

117 100

119 5.1 75.8 113.6#

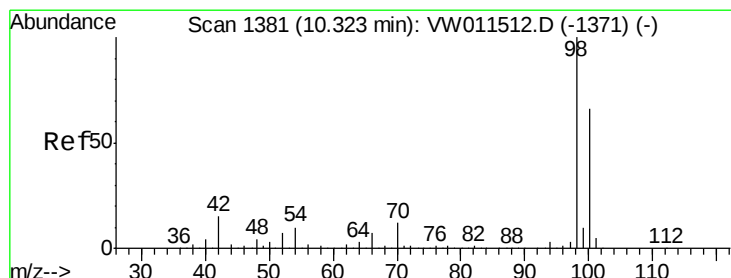
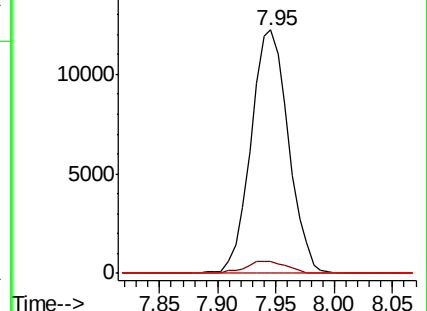
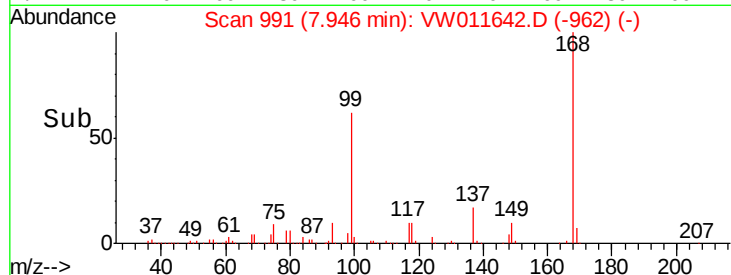
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 53.314 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011642.D

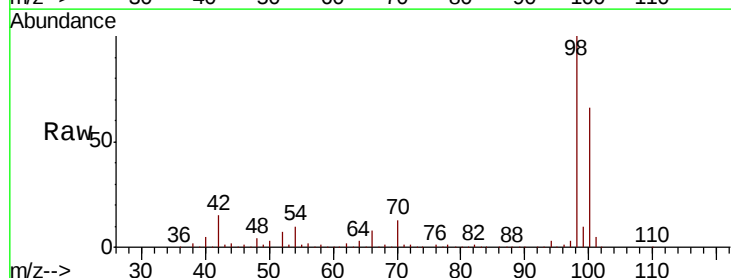
Acq: 03 Aug 2019 02:08

Tgt Ion: 98 Resp: 549045

Ion Ratio Lower Upper

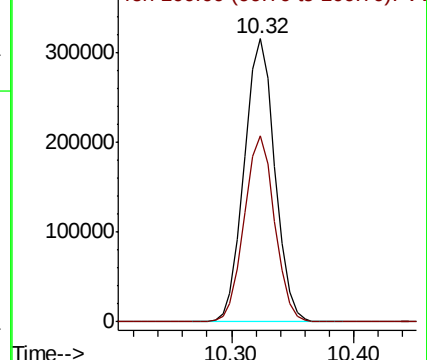
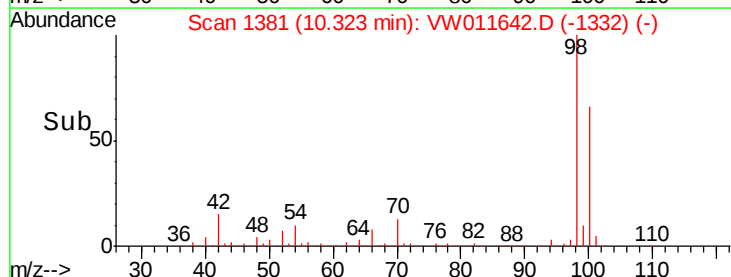
98 100

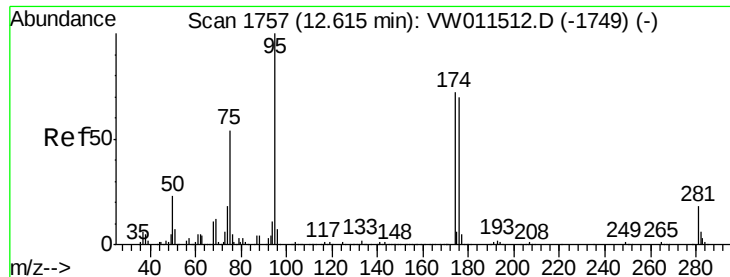
100 65.5 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

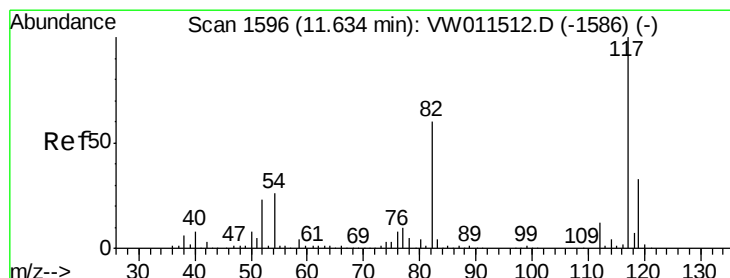
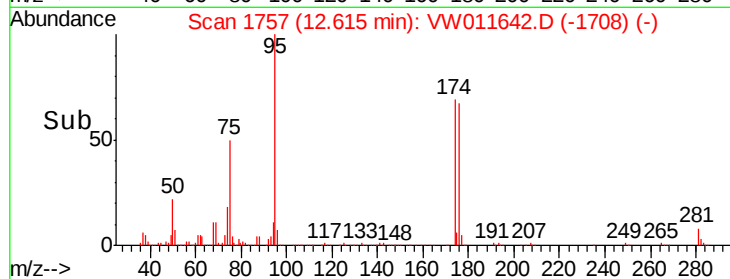
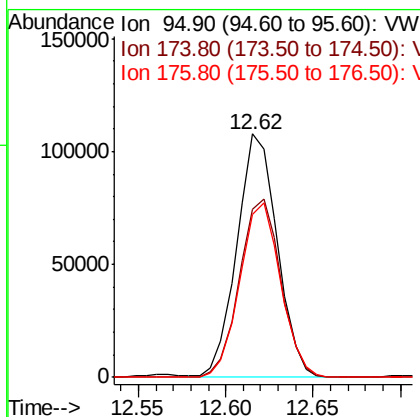
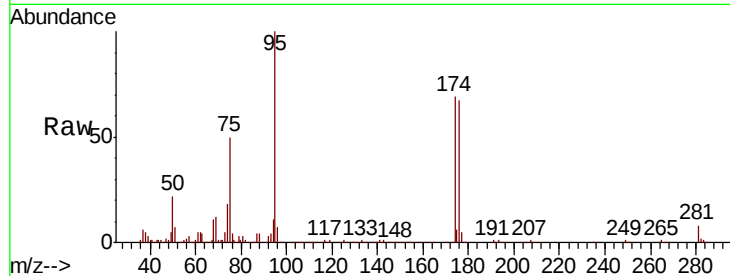




#62
4-Bromofluorobenzene
Concen: 46.912 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW011642.D
Acq: 03 Aug 2019 02:08

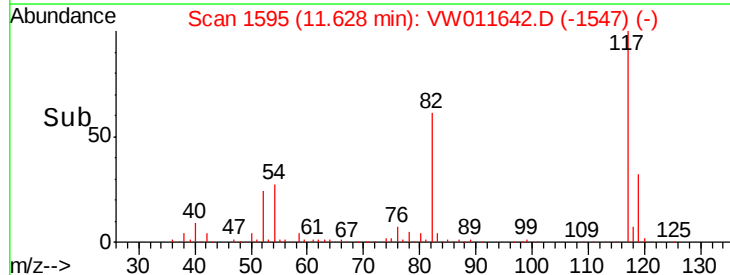
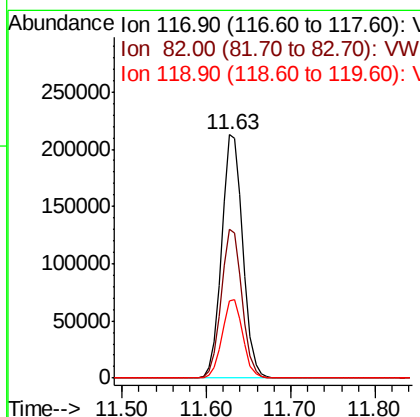
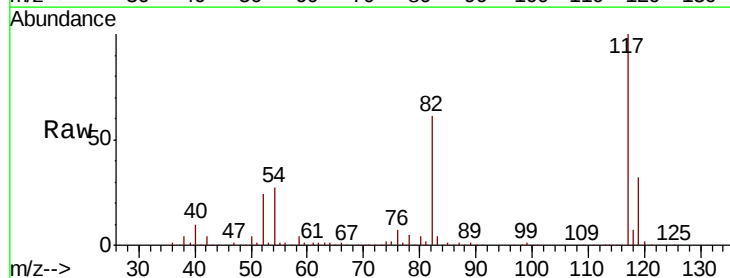
Instrument :
MSVOA_W
ClientSampleId :
1S-D1-(30)

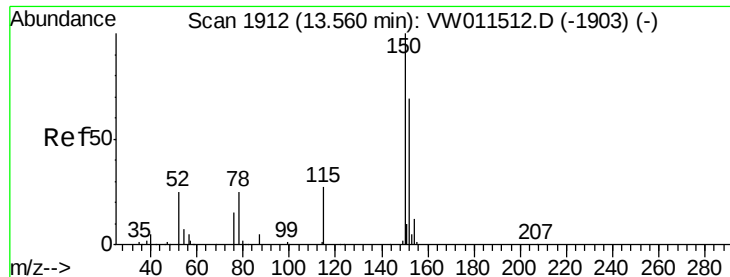
Tgt Ion: 95 Resp: 172241
Ion Ratio Lower Upper
95 100
174 75.5 0.0 150.2
176 72.9 0.0 144.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW011642.D
Acq: 03 Aug 2019 02:08

Tgt Ion: 117 Resp: 367686
Ion Ratio Lower Upper
117 100
82 61.1 47.9 71.9
119 31.7 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW011642.D

Acq: 03 Aug 2019 02:08

Instrument :

MSVOA_W

ClientSampleId :

1S-D1-(30)

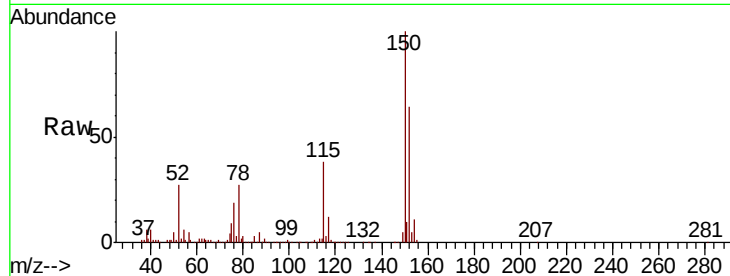
Tgt Ion:152 Resp: 140287

Ion Ratio Lower Upper

152 100

115 61.2 30.5 91.5

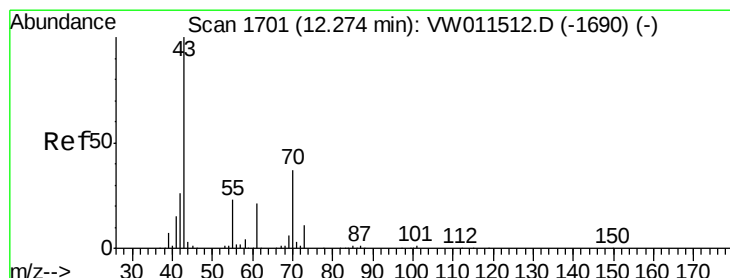
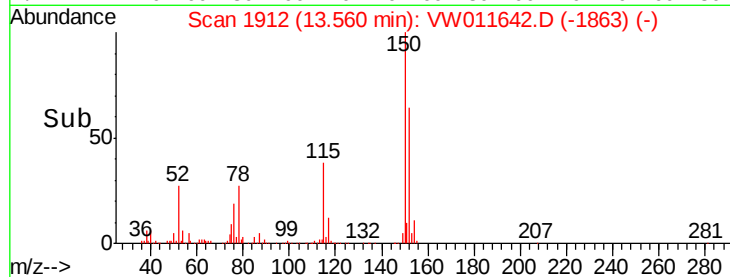
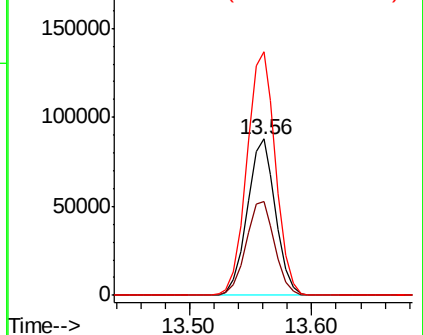
150 158.0 0.0 352.6



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



#74

N-ethyl acetate

Concen: 1.221 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW011642.D

Acq: 03 Aug 2019 02:08

Tgt Ion: 43 Resp: 4002

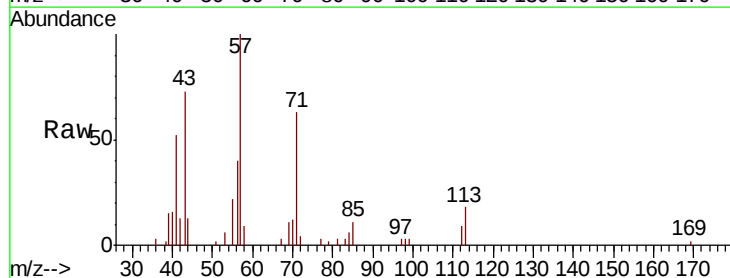
Ion Ratio Lower Upper

43 100

70 0.0 28.6 43.0#

55 0.0 17.8 26.8#

61 0.0 17.0 25.6#

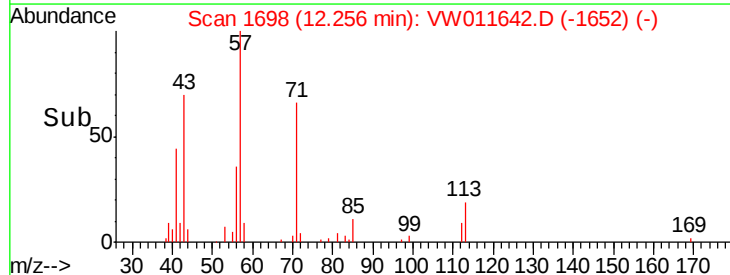
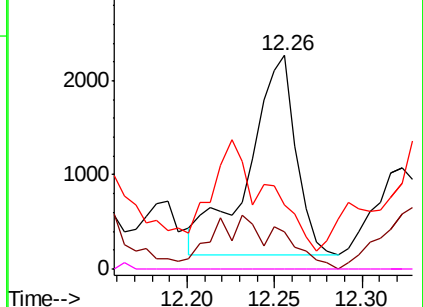


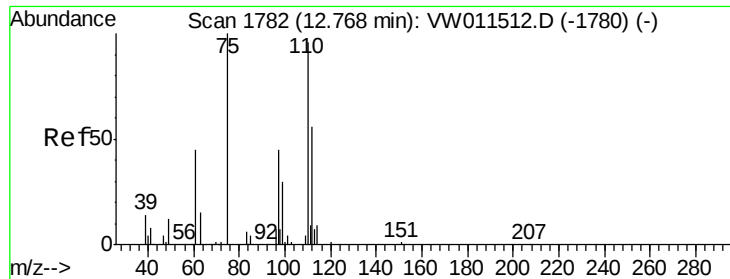
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#76

1,2,3-Trichloropropane

Concen: 61.839 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011642.D

Acq: 03 Aug 2019 02:08

Instrument :

MSVOA_W

ClientSampleId :

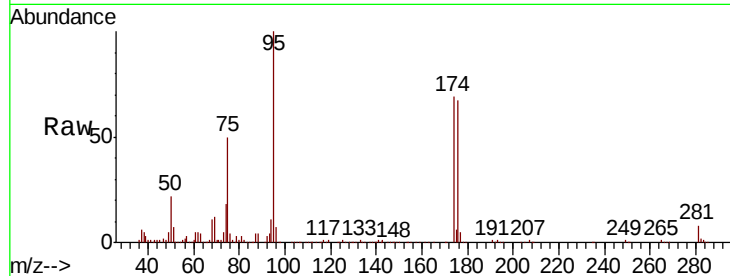
1S-D1-(30)

Tgt Ion: 75 Resp: 91794

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

60000

50000

40000

30000

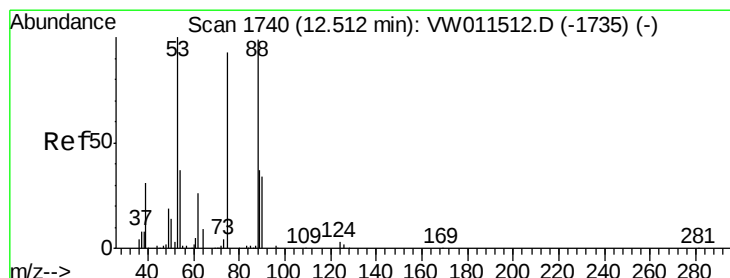
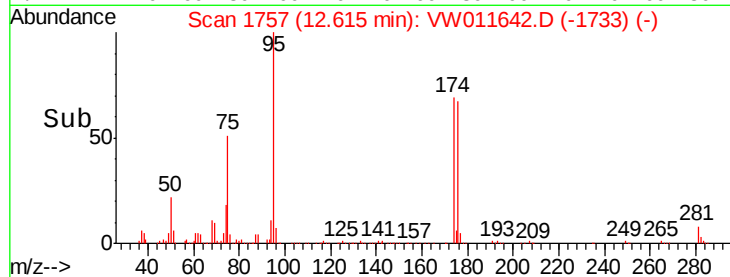
20000

10000

0

Time-->

12.60 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 142.518 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011642.D

Acq: 03 Aug 2019 02:08

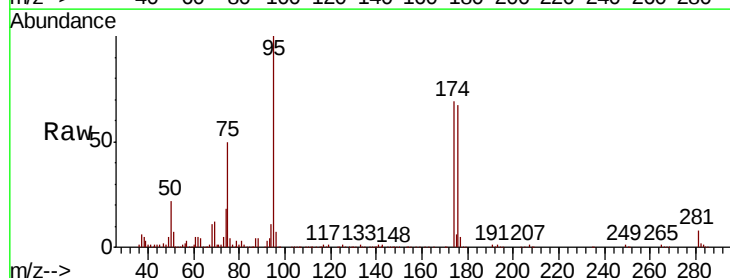
Tgt Ion: 75 Resp: 91794

Ion Ratio Lower Upper

75 100

53 0.6 88.0 132.0#

89 0.1 35.3 52.9#



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

60000

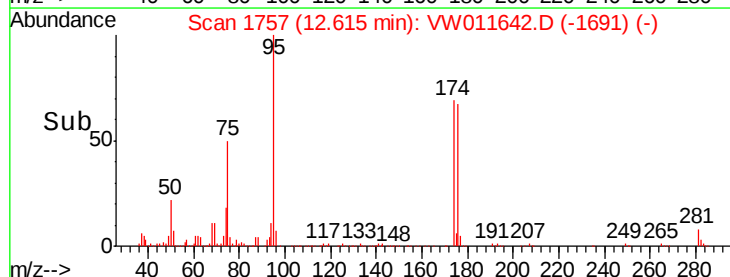
40000

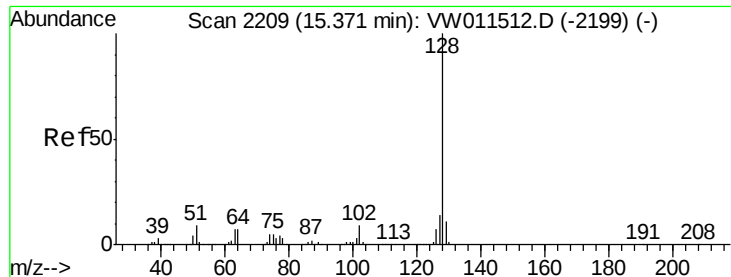
20000

0

Time-->

12.60 12.70

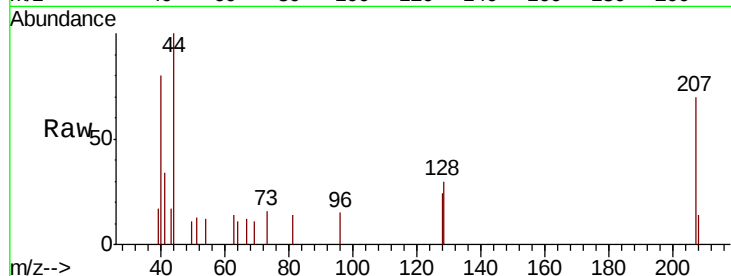




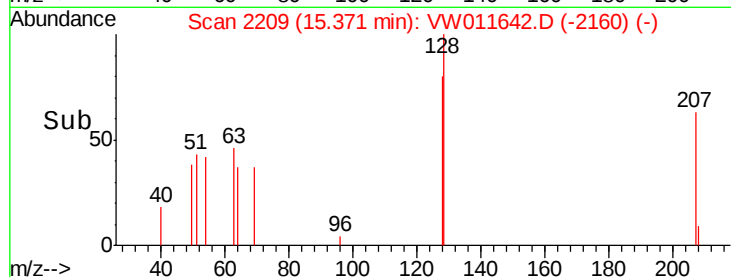
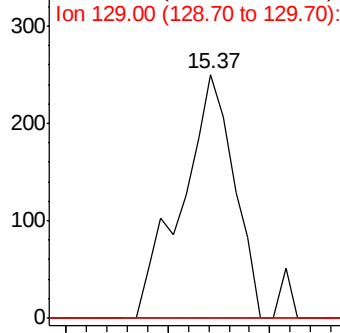
#95
 Naphthalene
 Concen: 2.143 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW011642.D
 Acq: 03 Aug 2019 02:08

Instrument :
 MSVOA_W
 ClientSampleId :
 1S-D1-(30)

Tgt Ion:128 Resp: 447
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 16.0#
 129 0.0 8.6 13.0#



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



Time-->