

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072719\
 Data File : VW011543.D
 Acq On : 27 Jul 2019 03:02
 Operator : SY/VA
 Sample : K3990-09
 Misc : 5.50G/5.0ML/MSVOA W/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-8-A

Quant Time: Jul 27 05:36:57 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	274630	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	451661	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	378777	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	133277	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	178795	56.70	ug/l	0.00
Spiked Amount			Recovery	=	113.40%	
35) Dibromofluoromethane	7.88	113	137656	54.33	ug/l	0.00
Spiked Amount			Recovery	=	108.66%	
50) Toluene-d8	10.32	98	566419	54.60	ug/l	0.00
Spiked Amount			Recovery	=	109.20%	
62) 4-Bromofluorobenzene	12.62	95	168991	45.69	ug/l	0.00
Spiked Amount			Recovery	=	91.38%	

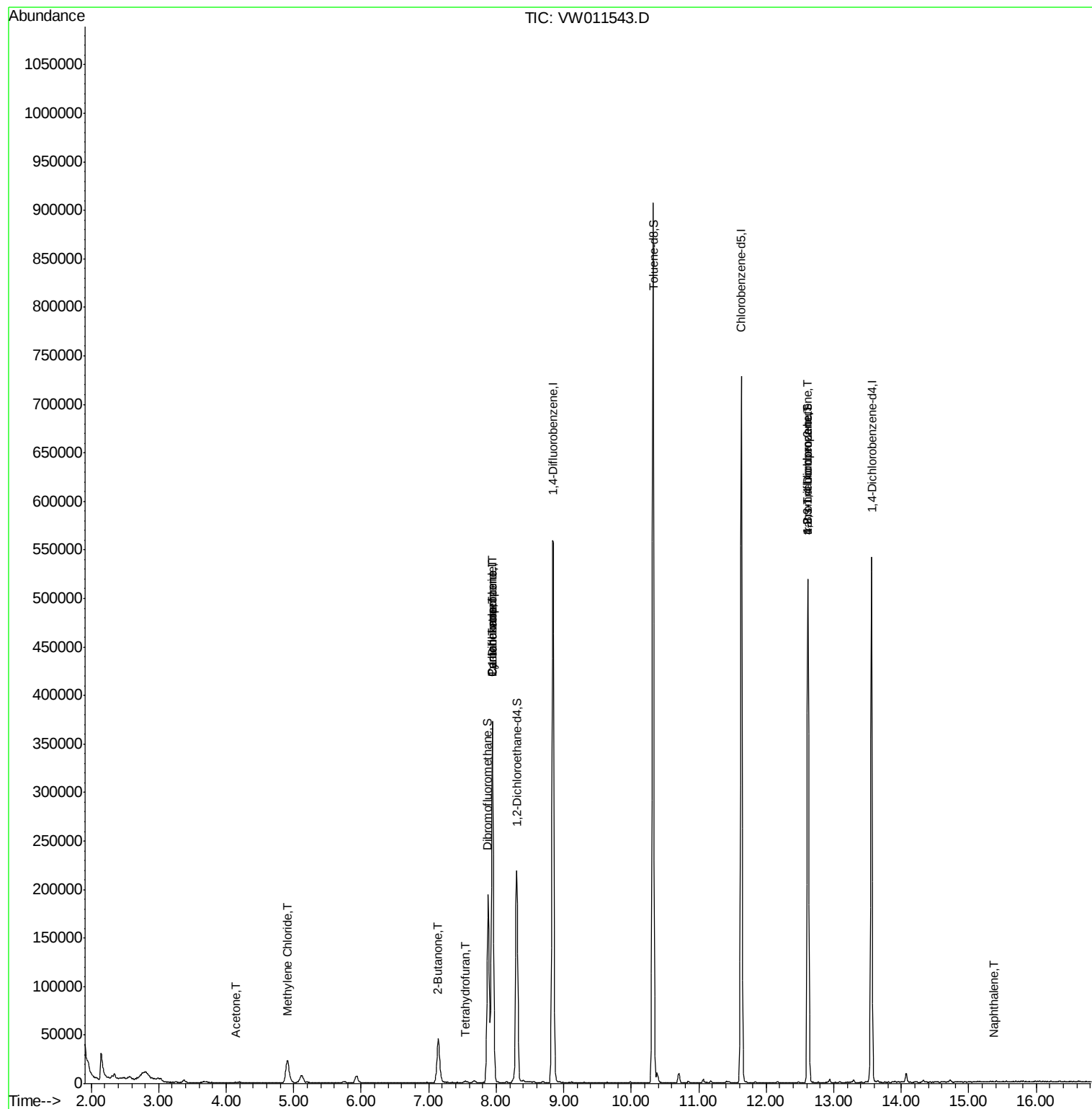
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.23	59	595	Below Cal		98
16) Acetone	4.14	43	1337	1.333	ug/l #	86
20) Methylene Chloride	4.92	84	16721	4.833	ug/l	99
25) 2-Butanone	7.13	43	3146	2.397	ug/l #	77
29) Tetrahydrofuran	7.55	42	1652	2.202	ug/l #	88
31) Cyclohexane	7.94	56	6593	1.118	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	24116	5.135	ug/l #	52
38) Carbon Tetrachloride	7.94	117	26777	6.660	ug/l #	16
76) 1,2,3-Trichloropropane	12.62	75	90206	63.966	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	90206	147.419	ug/l #	6
95) Naphthalene	15.37	128	154	2.094	ug/l #	69

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011543.D

Acq: 27 Jul 2019 03:02

Instrument :

MSVOA_W

ClientSampleId :

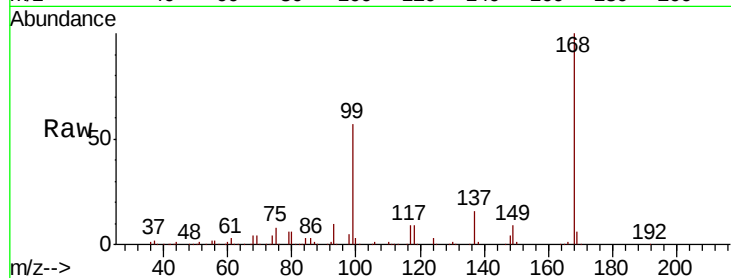
TP-8-A

Tot Ion:168 Resp: 274630

Ion Ratio Lower Upper

168 100

99 56.6 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

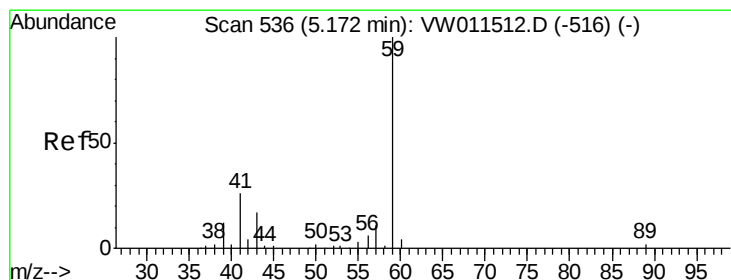
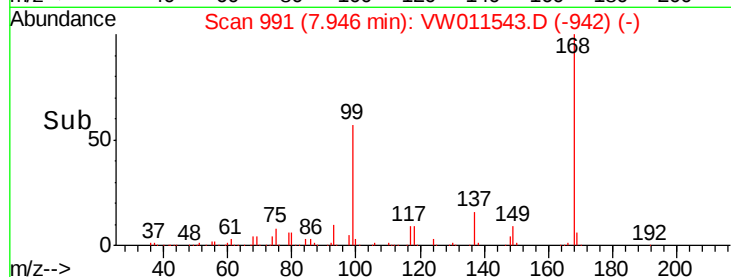
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.23 min Scan# 545

Delta R.T. 0.06 min

Lab File: VW011543.D

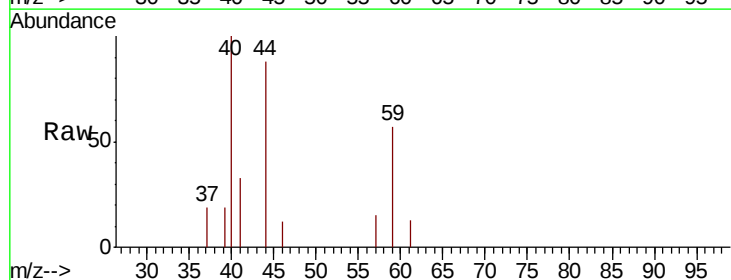
Acq: 27 Jul 2019 03:02

Tgt Ion: 59 Resp: 595

Ion Ratio Lower Upper

59 100

57 11.4 8.5 12.7



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

500

400

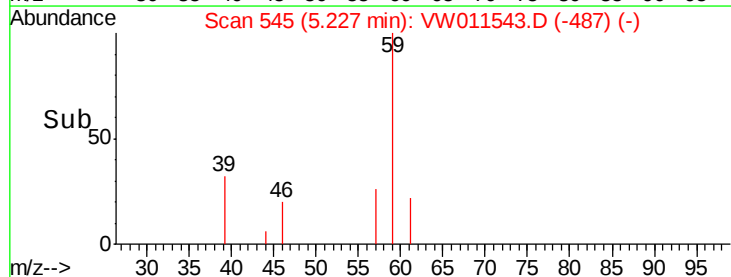
300

200

100

0

Time--> 5.20 5.25 5.30





#16

Acetone

Concen: 1.333 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.02 min

Lab File: VW011543.D

Acq: 27 Jul 2019 03:02

Instrument :

MSVOA_W

ClientSampleId :

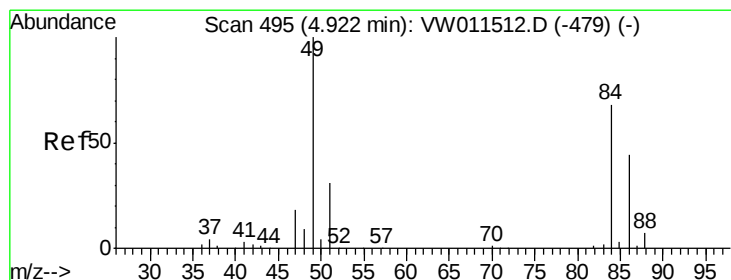
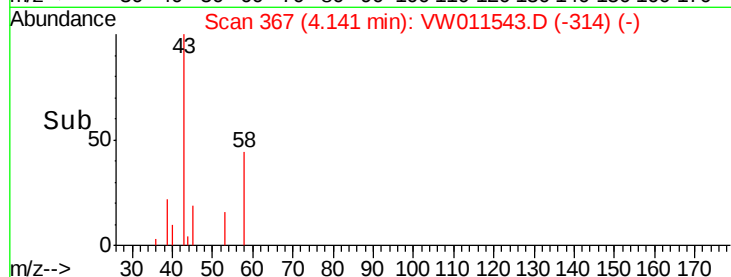
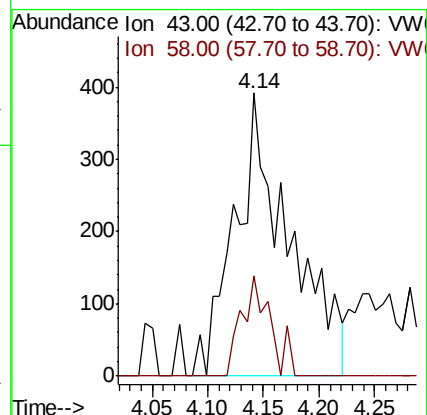
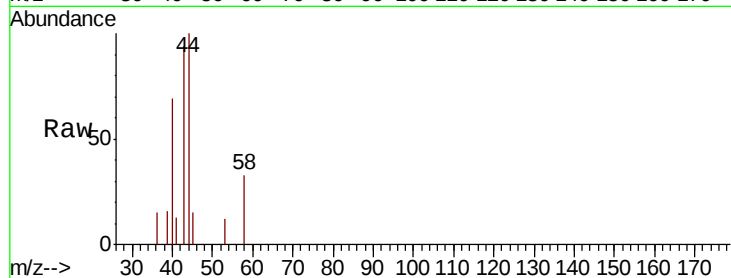
TP-8-A

Tot Ion: 43 Resp: 1337

Ion Ratio Lower Upper

43 100

58 35.5 22.3 33.5#



#20

Methylene Chloride

Concen: 4.833 ug/l

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW011543.D

Acq: 27 Jul 2019 03:02

Tgt Ion: 84 Resp: 16721

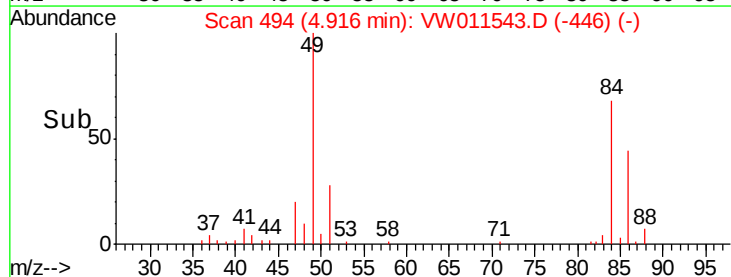
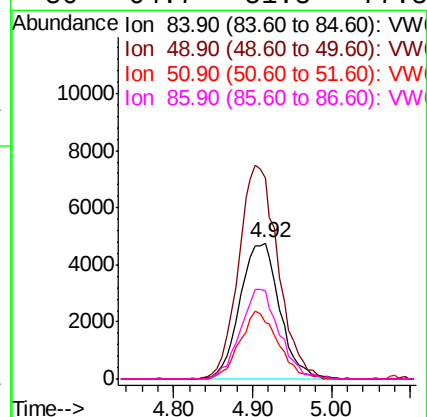
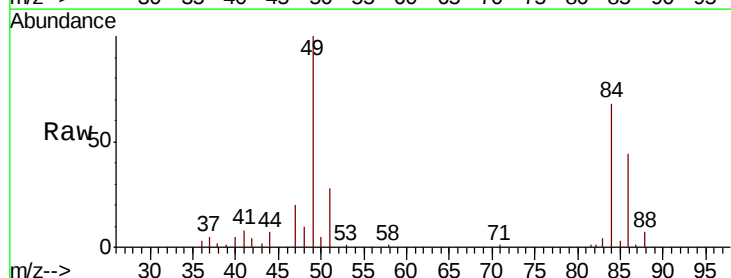
Ion Ratio Lower Upper

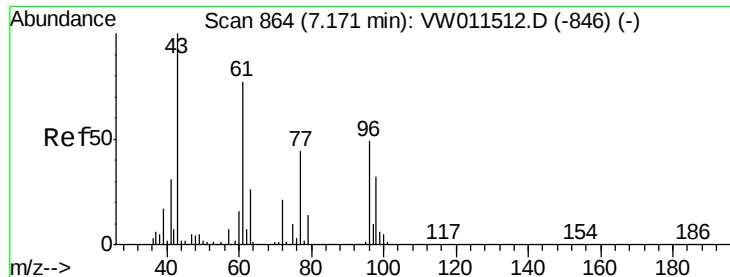
84 100

49 147.5 117.8 176.6

51 41.8 37.0 55.4

86 64.7 51.8 77.8





#25

2-Butanone

Concen: 2.397 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.04 min

Lab File: VW011543.D

Acq: 27 Jul 2019 03:02

Instrument :

MSVOA_W

ClientSampleId :

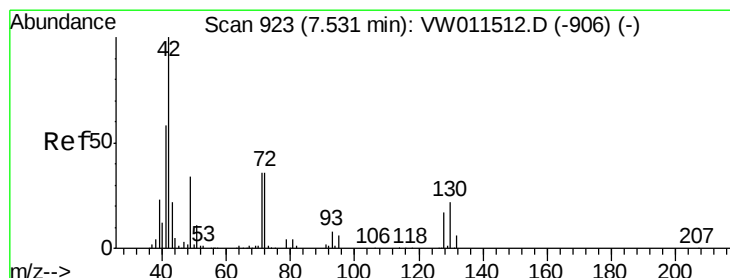
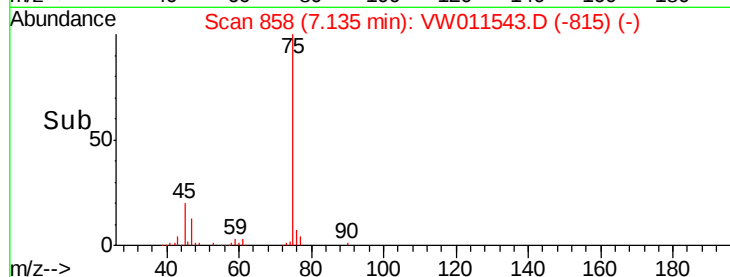
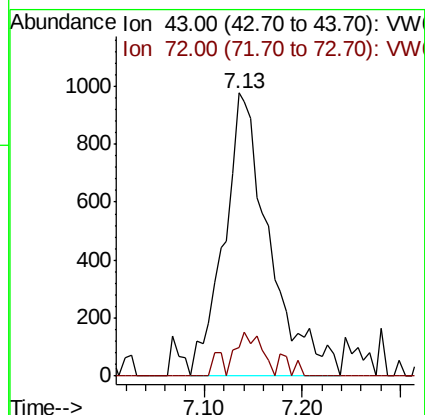
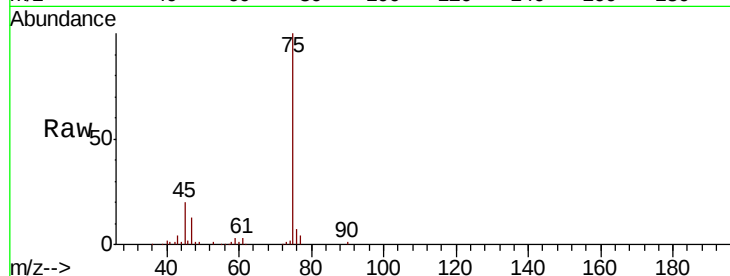
TP-8-A

Tot Ion: 43 Resp: 3146

Ion Ratio Lower Upper

43 100

72 9.9 16.6 24.8#



#29

Tetrahydrofuran

Concen: 2.202 ug/l

RT: 7.55 min Scan# 926

Delta R.T. 0.02 min

Lab File: VW011543.D

Acq: 27 Jul 2019 03:02

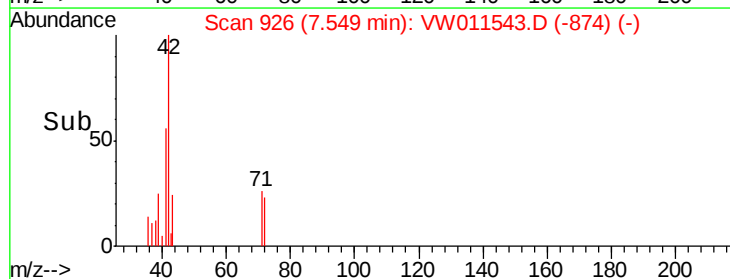
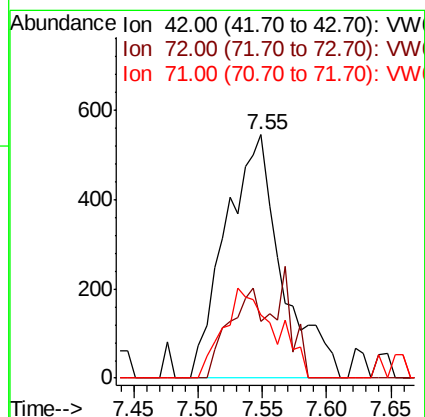
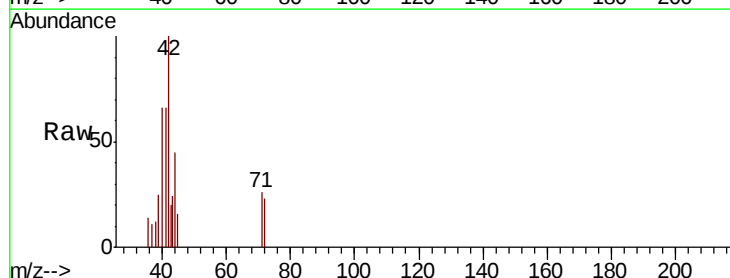
Tgt Ion: 42 Resp: 1652

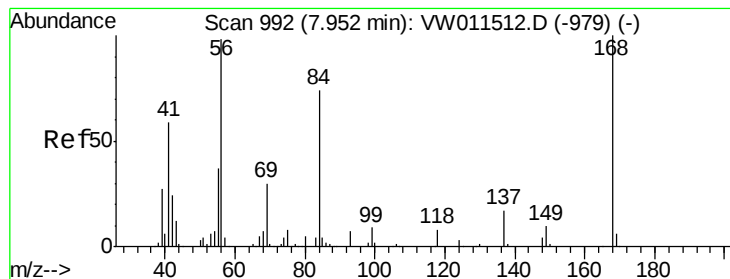
Ion Ratio Lower Upper

42 100

72 20.9 27.1 40.7#

71 33.8 26.2 39.4





#31

Cyclohexane

Concen: 1.118 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW011543.D

Acq: 27 Jul 2019 03:02

Instrument :

MSVOA_W

ClientSampled :

TP-8-A

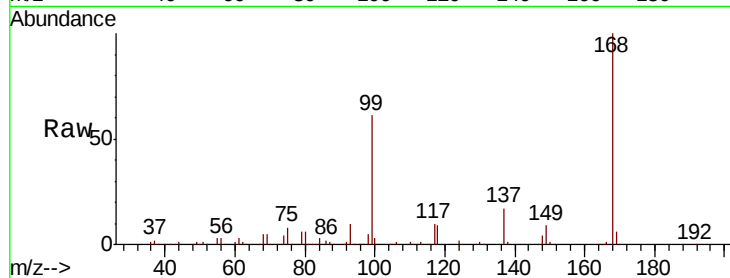
Tot Ion: 56 Resp: 6593

Ion Ratio Lower Upper

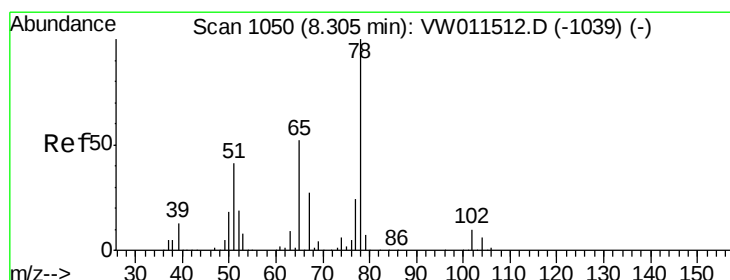
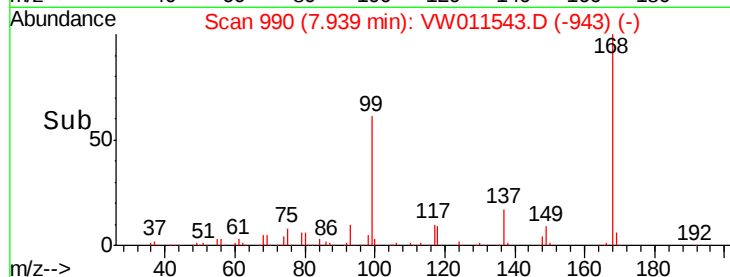
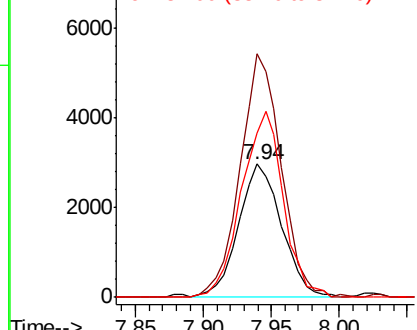
56 100

69 183.2 24.3 36.5#

84 123.8 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: 56.697 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW011543.D

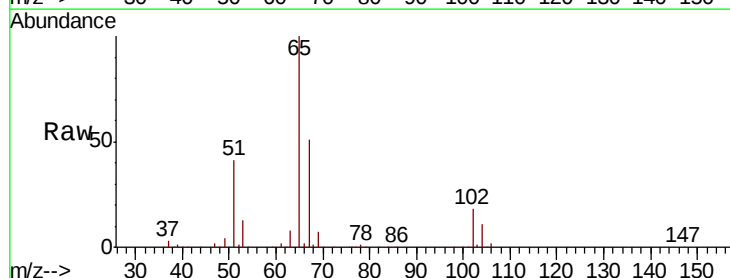
Acq: 27 Jul 2019 03:02

Tgt Ion: 65 Resp: 178795

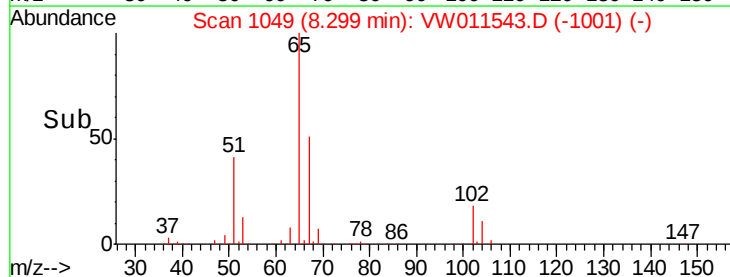
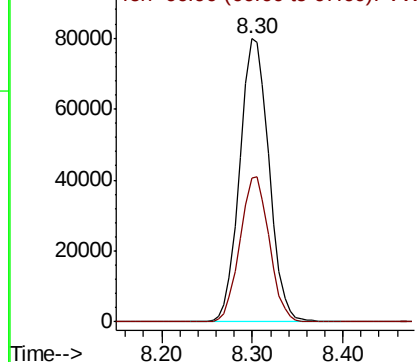
Ion Ratio Lower Upper

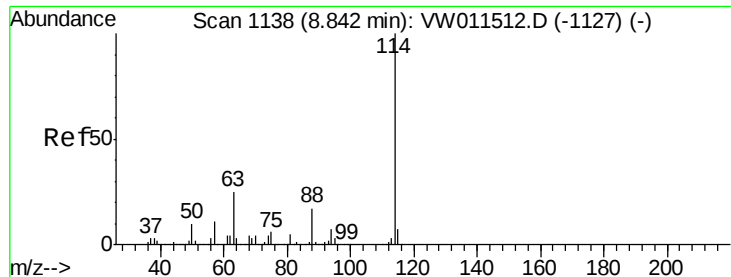
65 100

67 51.3 0.0 105.2



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

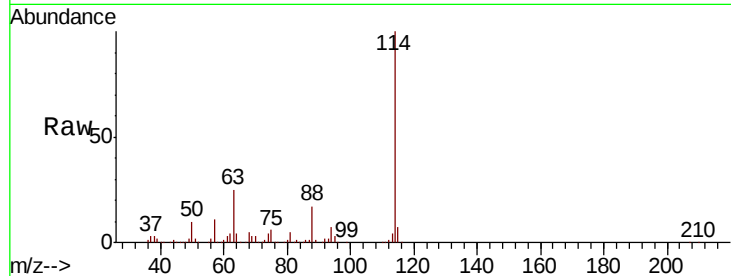




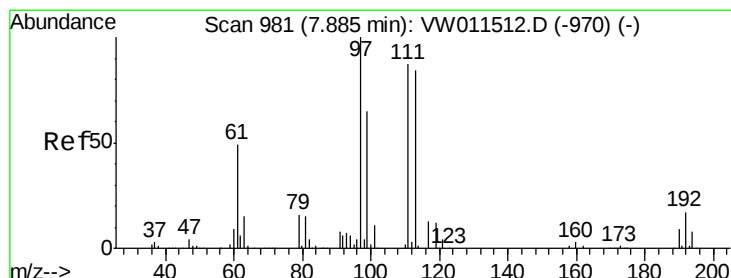
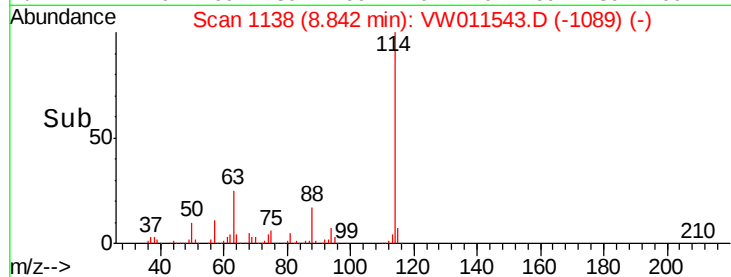
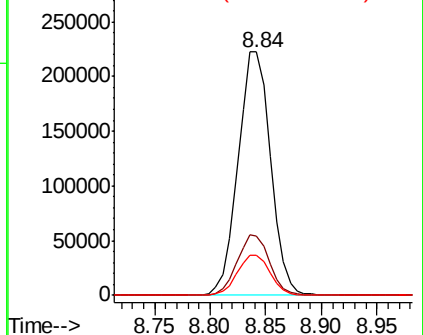
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW011543.D
 Acq: 27 Jul 2019 03:02

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-8-A

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.5	0.0	49.2
88	16.6	0.0	33.8

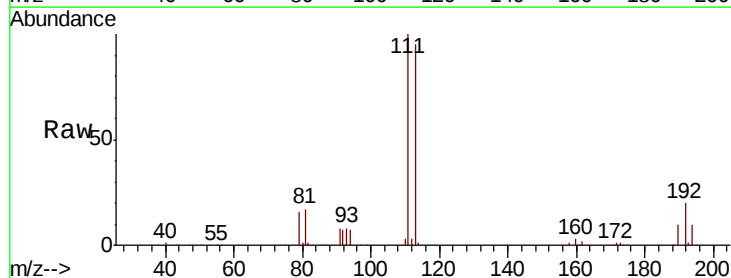


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

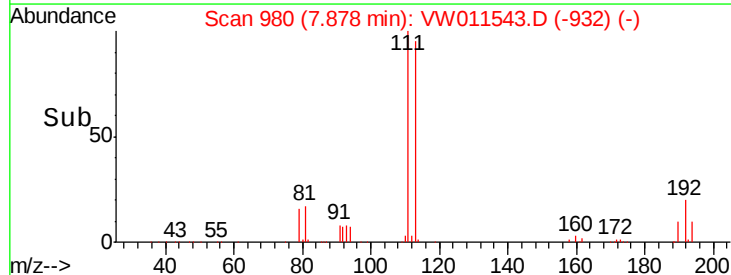
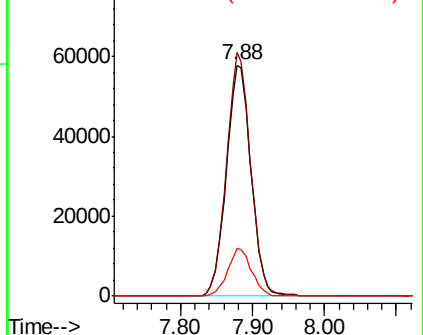


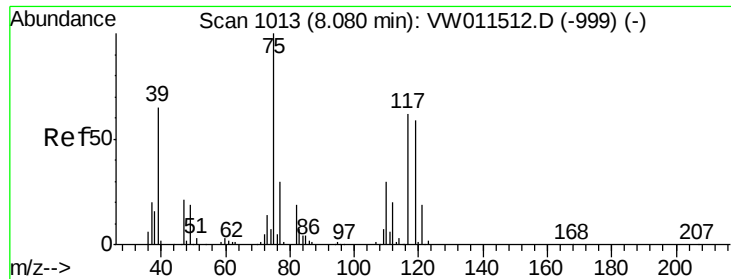
#35
 Dibromofluoromethane
 Concen: 54.326 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW011543.D
 Acq: 27 Jul 2019 03:02

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.7	124.1
192	20.0	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

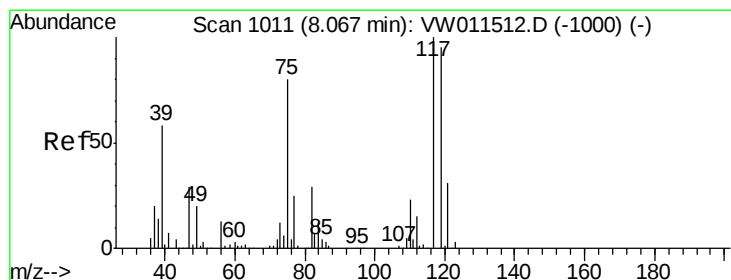
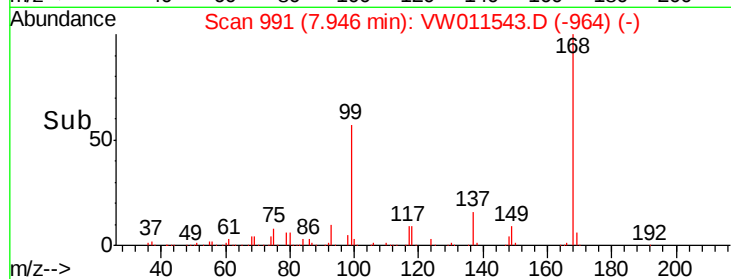
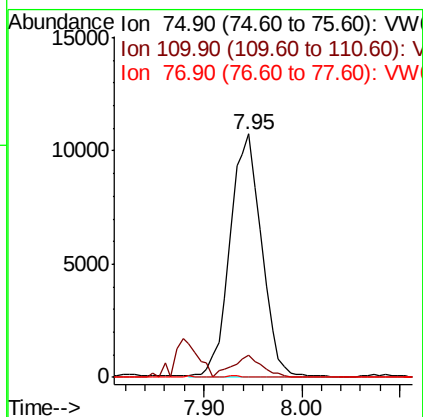
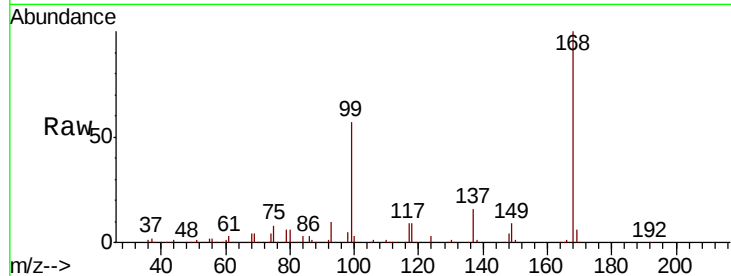




#36
 1,1-Dichloropropene
 Concen: 5.135 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW011543.D
 Acq: 27 Jul 2019 03:02

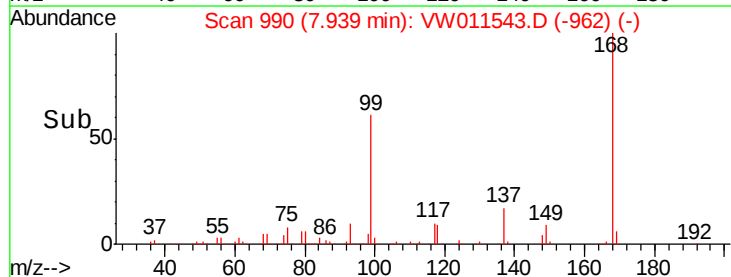
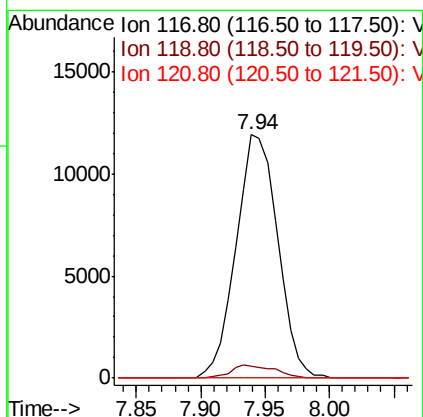
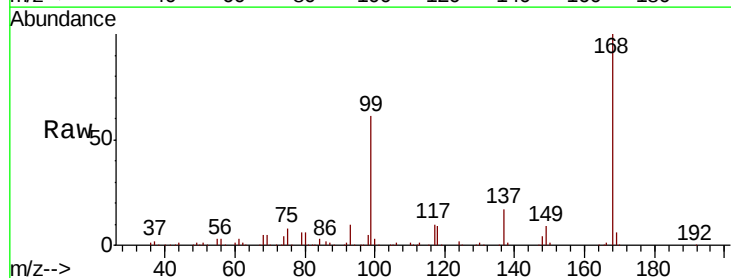
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 MSVOA_W
 ClientSampleId :
 TP-8-A

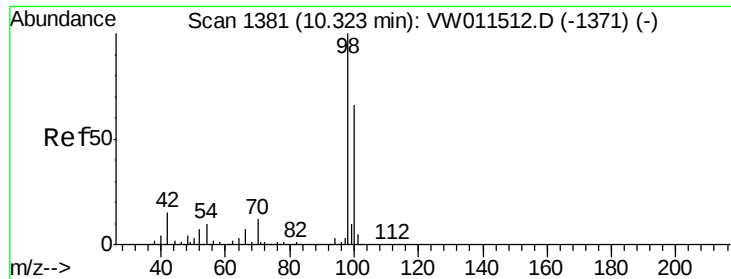
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.5	15.6	46.8#
77	0.2	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 6.660 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.13 min
 Lab File: VW011543.D
 Acq: 27 Jul 2019 03:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	75.8	113.6#
121	0.0	24.7	37.1#





#50

Toluene-d8

Concen: 54.597 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011543.D

Acq: 27 Jul 2019 03:02

Instrument :

MSVOA_W

ClientSampleId :

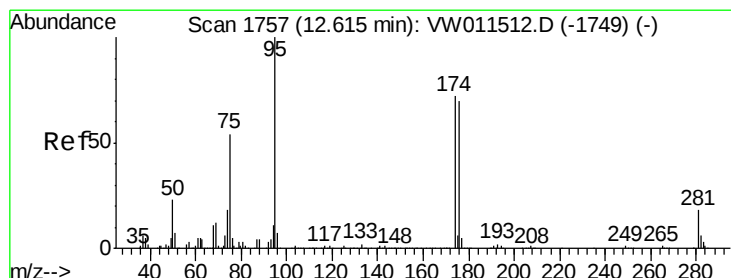
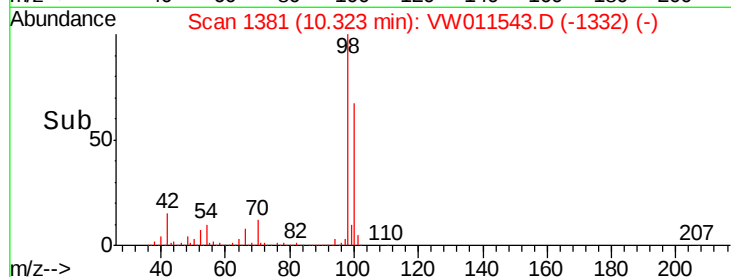
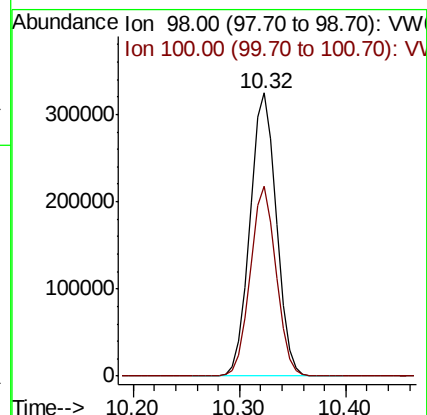
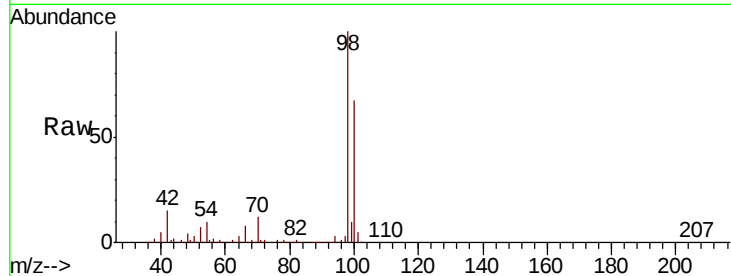
TP-8-A

Tot Ion: 98 Resp: 566419

Ion Ratio Lower Upper

98 100

100 65.6 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 45.689 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW011543.D

Acq: 27 Jul 2019 03:02

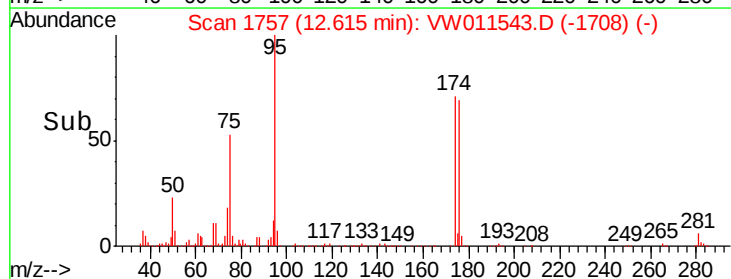
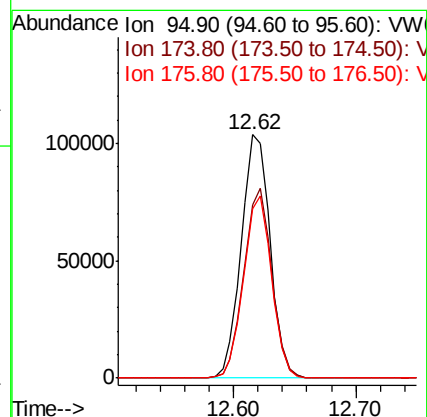
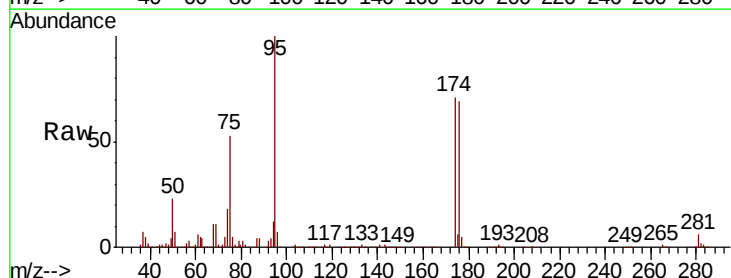
Tgt Ion: 95 Resp: 168991

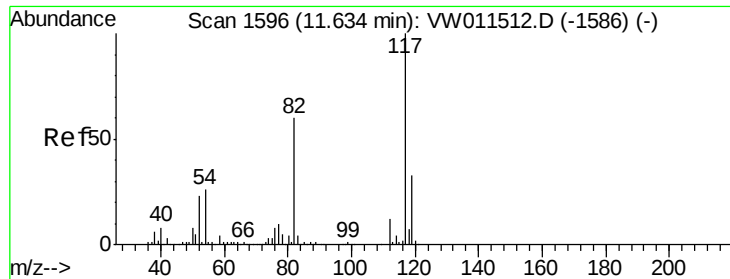
Ion Ratio Lower Upper

95 100

174 76.2 0.0 150.2

176 73.2 0.0 144.4

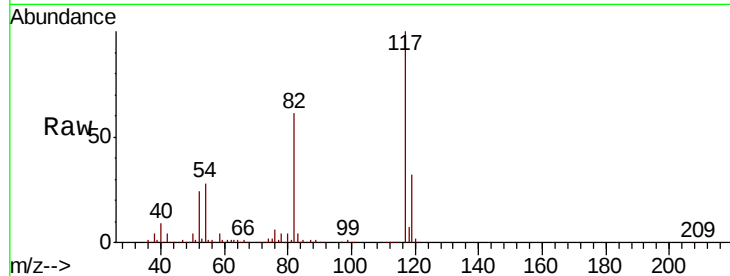




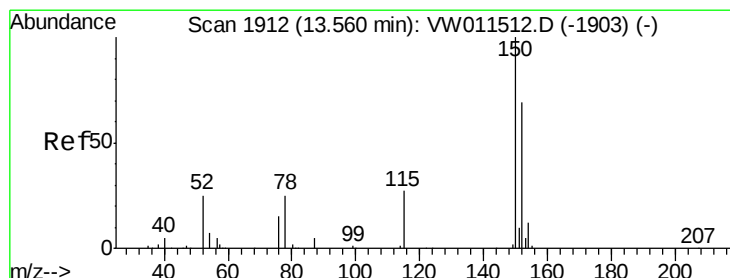
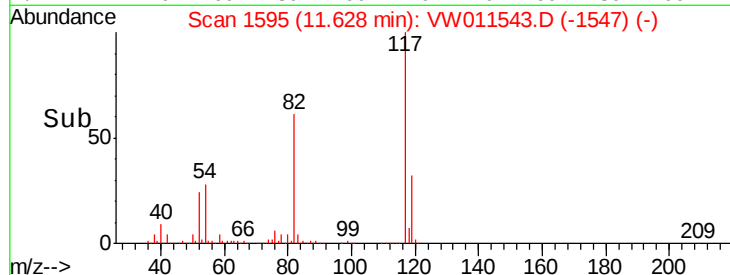
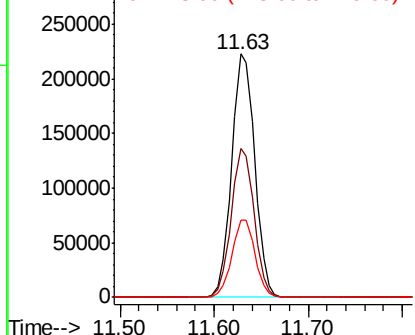
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW011543.D
Acq: 27 Jul 2019 03:02

Instrument :
MSVOA_W
ClientSampleId :
TP-8-A

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.0	47.9	71.9
119	31.7	26.2	39.2

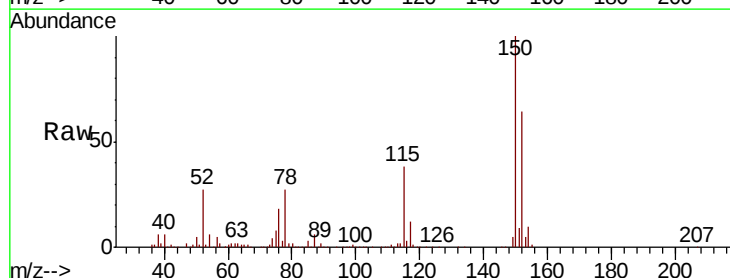


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

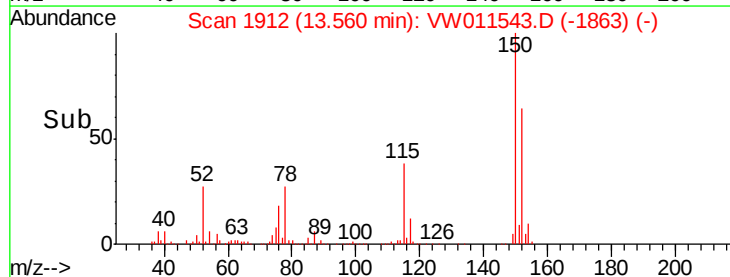
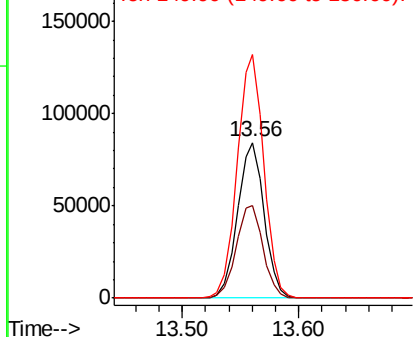


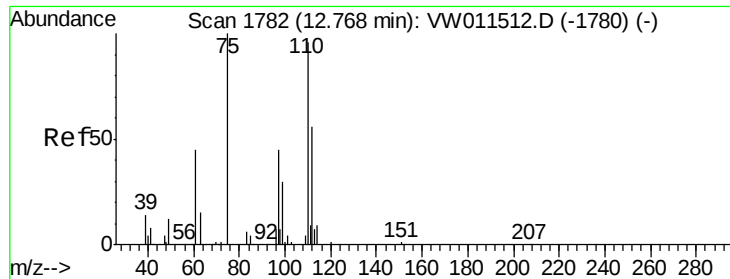
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW011543.D
Acq: 27 Jul 2019 03:02

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.4	30.5	91.5
150	157.4	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





#76

1,2,3-Trichloropropane

Concen: 63.966 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011543.D

Acq: 27 Jul 2019 03:02

Instrument :

MSVOA_W

ClientSampled :

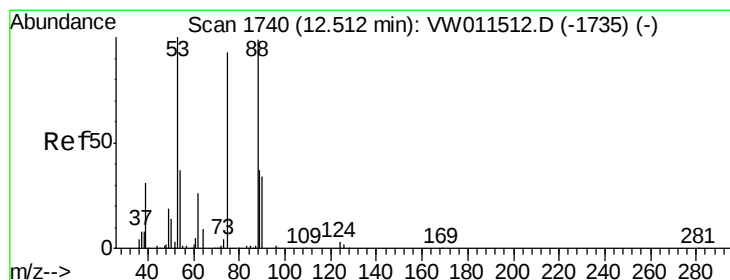
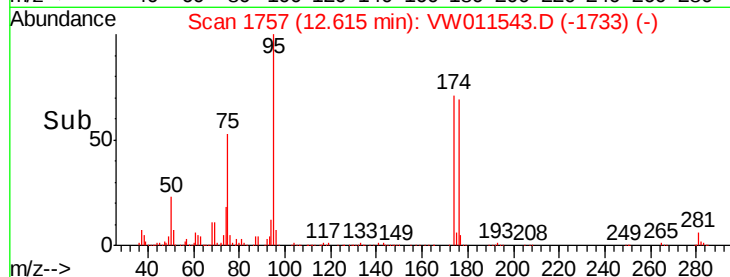
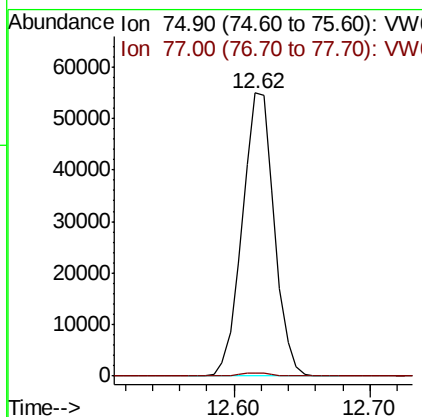
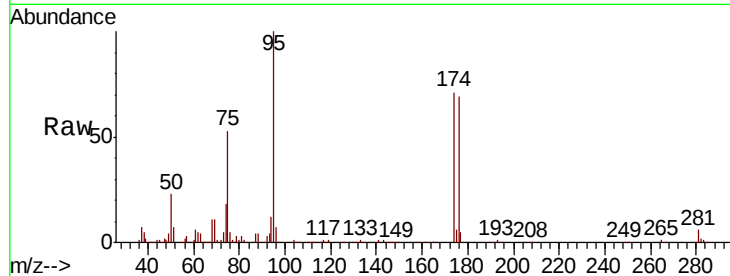
TP-8-A

Tot Ion: 75 Resp: 90206

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 147.419 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011543.D

Acq: 27 Jul 2019 03:02

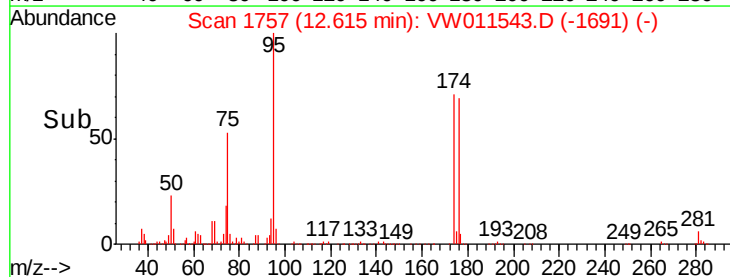
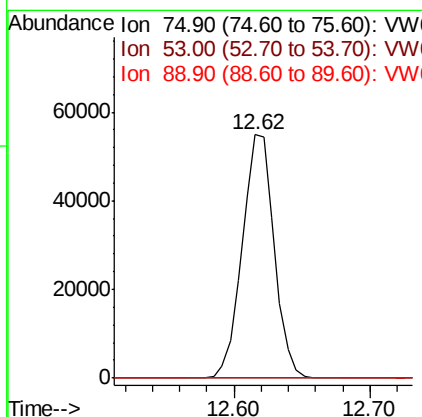
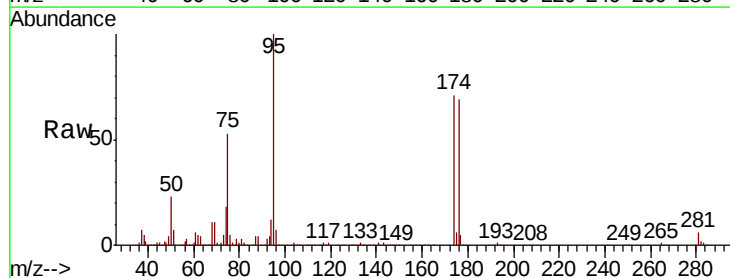
Tgt Ion: 75 Resp: 90206

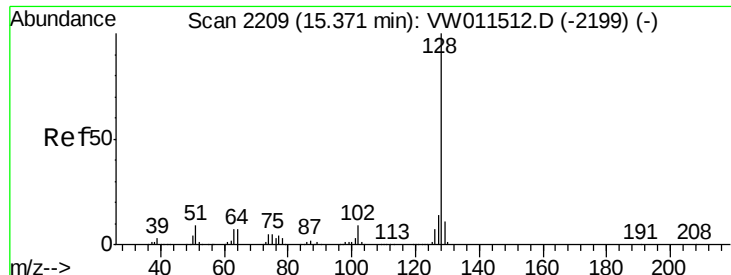
Ion Ratio Lower Upper

75 100

53 0.1 88.0 132.0#

89 0.0 35.3 52.9#





#95

Naphthalene

Concen: 2.094 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011543.D

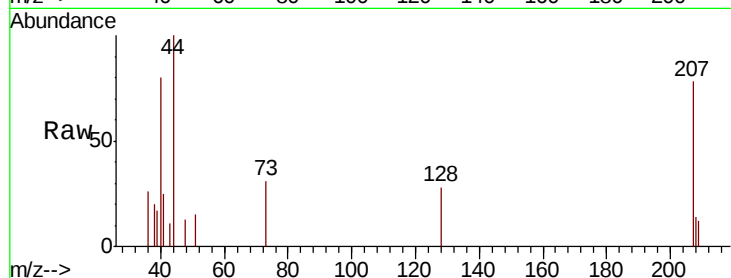
Acq: 27 Jul 2019 03:02

Instrument :

MSVOA_W

ClientSampleId :

TP-8-A



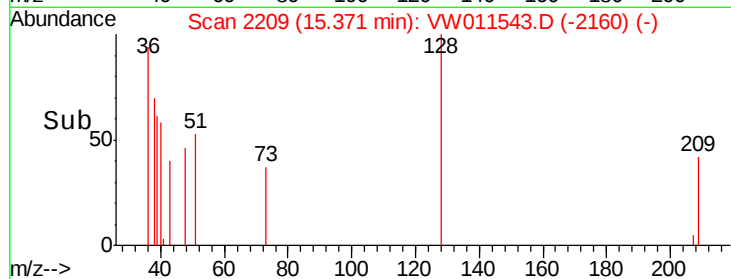
Tot Ion:128 Resp: 154

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

