

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091619\
 Data File : VW013035.D
 Acq On : 16 Sep 2019 12:32
 Operator : SY/VA
 Sample : K4663-04
 Misc : 5.95G/5ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 16 13:34:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 13 17:26:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	275247	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	409778	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	341401	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	144366	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	137758	54.19	ug/l	0.00
Spiked Amount			Recovery	=	108.38%	
35) Dibromofluoromethane	7.88	113	119603	53.79	ug/l	0.00
Spiked Amount			Recovery	=	107.58%	
50) Toluene-d8	10.32	98	482207	55.42	ug/l	0.00
Spiked Amount			Recovery	=	110.84%	
62) 4-Bromofluorobenzene	12.62	95	154336	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	

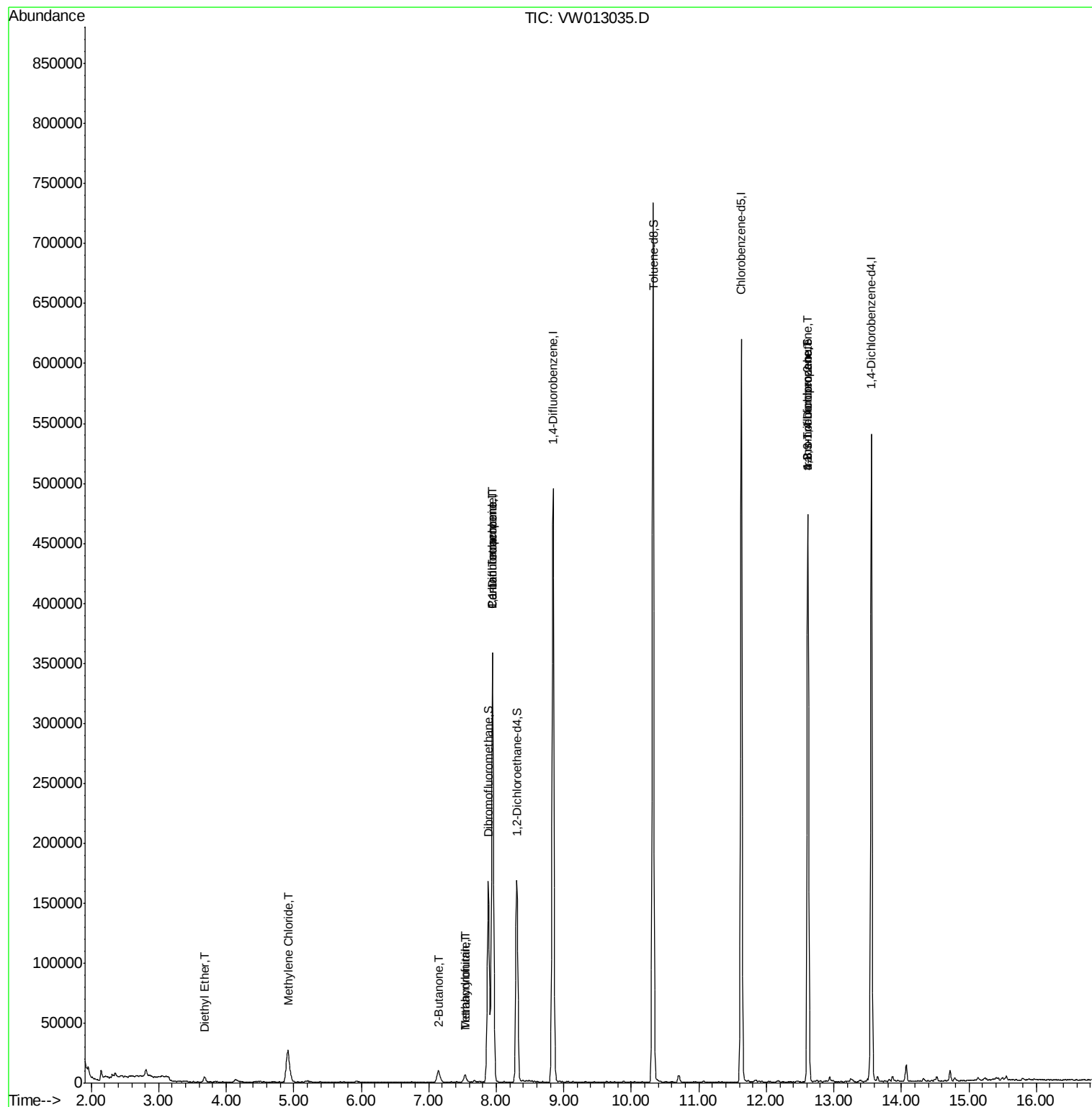
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	25	Below Cal	#	44
3) Chloromethane	2.21	50	428	Below Cal	#	41
8) Diethyl Ether	3.68	74	1969	1.830	ug/l	71
11) Tert butyl alcohol	5.17	59	254	Below Cal	#	72
13) Acrolein	3.89	56	25	Below Cal	#	15
16) Acetone	4.14	43	4309	Below Cal	#	80
20) Methylene Chloride	4.92	84	21862	6.090	ug/l	93
25) 2-Butanone	7.16	43	894	1.106	ug/l #	81
26) 2,2-Dichloropropane	7.13	77	557	Below Cal	#	55
29) Tetrahydrofuran	7.54	42	5653	12.274	ug/l	99
31) Cyclohexane	7.94	56	5515	Below Cal	#	1
36) 1,1-Dichloropropene	7.95	75	19744	6.030	ug/l #	50
38) Carbon Tetrachloride	7.95	117	25584	7.624	ug/l #	15
41) Methacrylonitrile	7.53	41	1601	1.399	ug/l #	35
76) 1,2,3-Trichloropropane	12.62	75	78668	62.211	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	78668	141.125	ug/l #	7

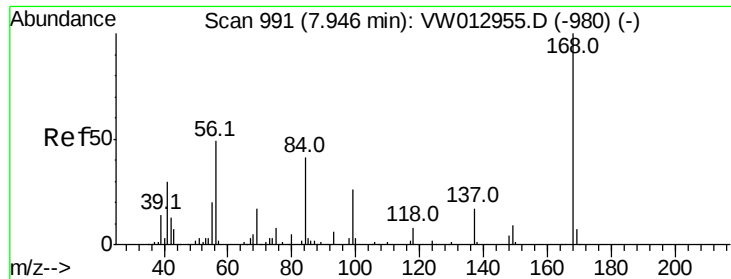
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 13 17:26:01 2019
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: VW013035.D

Acq: 16 Sep 2019 12:32

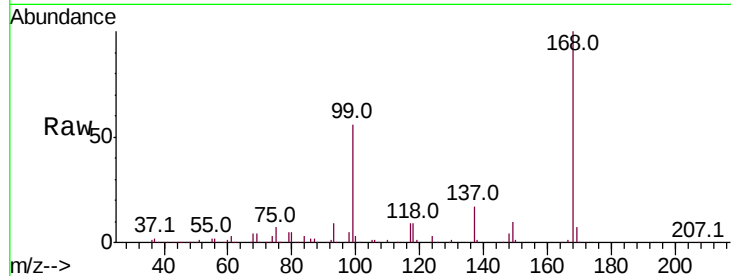
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 275247

Ion Ratio Lower Upper

168 100

99 55.9 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

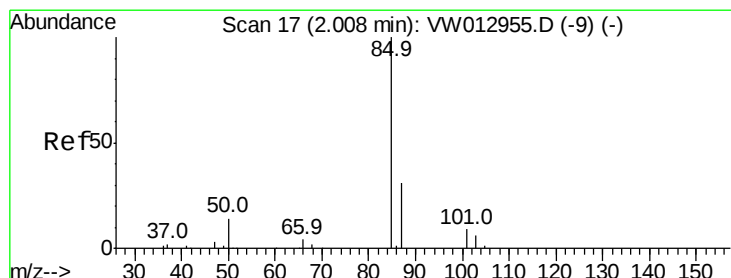
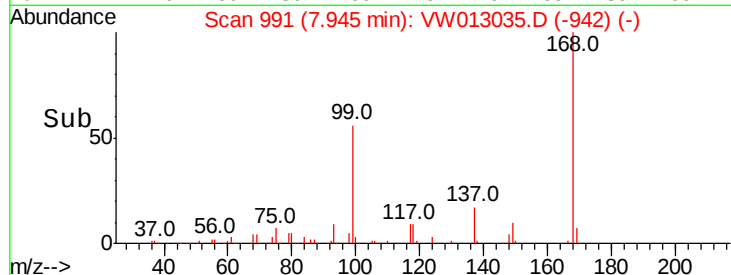
7.95

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW013035.D

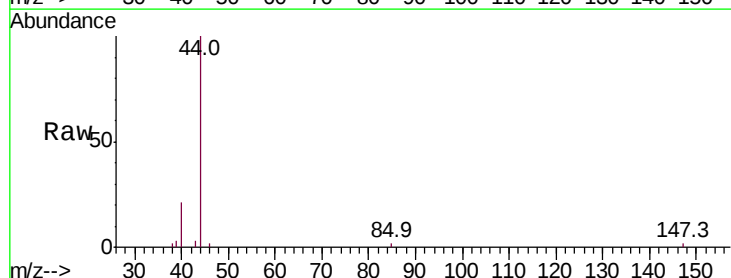
Acq: 16 Sep 2019 12:32

Tgt Ion: 85 Resp: 25

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

80

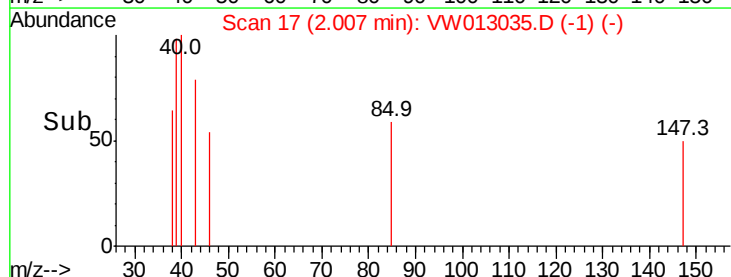
60

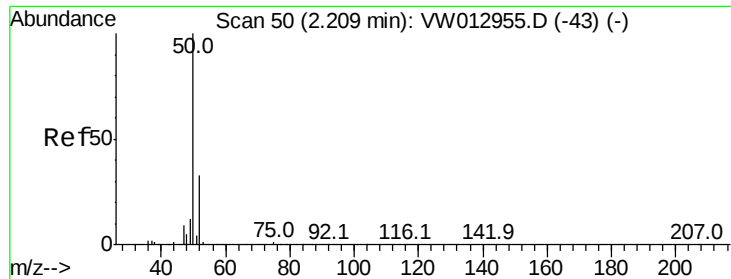
40

20

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW013035.D

Acq: 16 Sep 2019 12:32

Instrument :

MSVOA_W

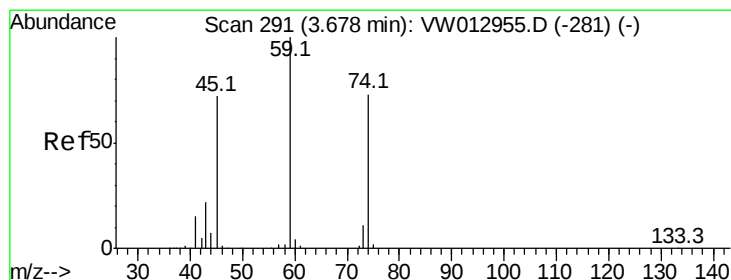
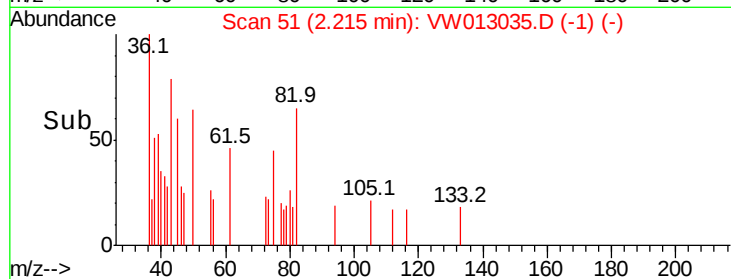
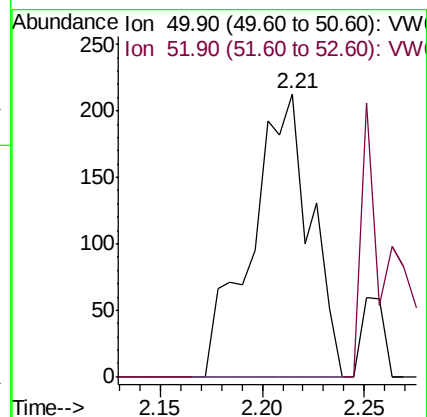
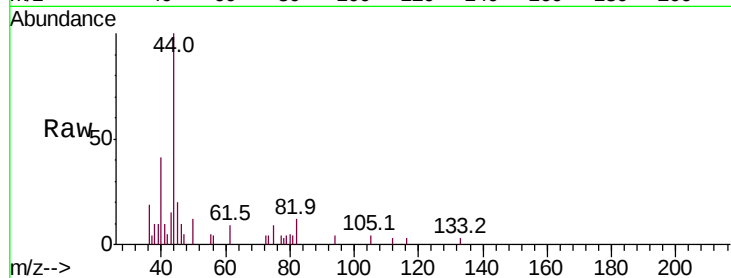
ClientSampleId :

Tot Ion: 50 Resp: 428

Ion Ratio Lower Upper

50 100

52 0.0 26.6 39.8#



#8

Diethyl Ether

Concen: 1.830 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW013035.D

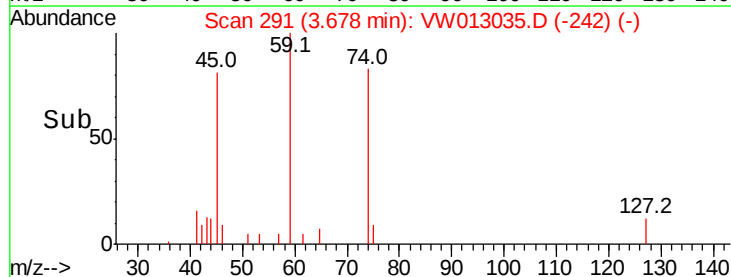
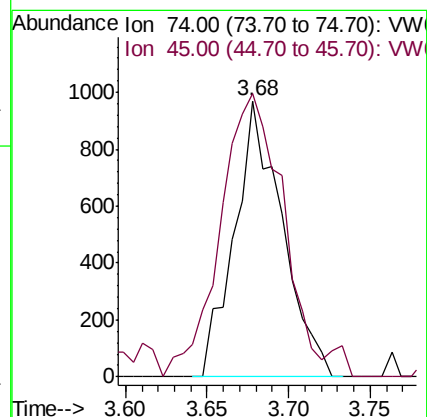
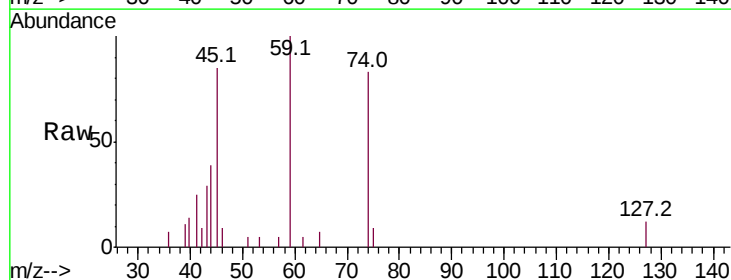
Acq: 16 Sep 2019 12:32

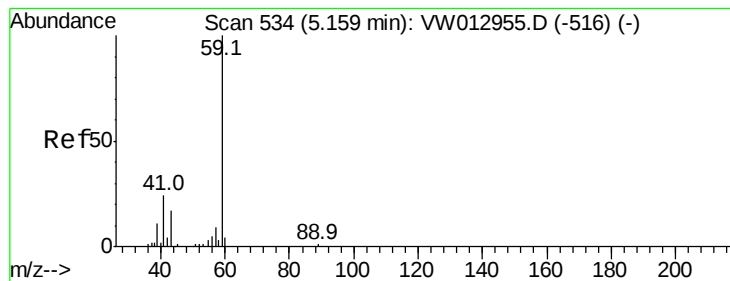
Tgt Ion: 74 Resp: 1969

Ion Ratio Lower Upper

74 100

45 138.1 53.8 161.4



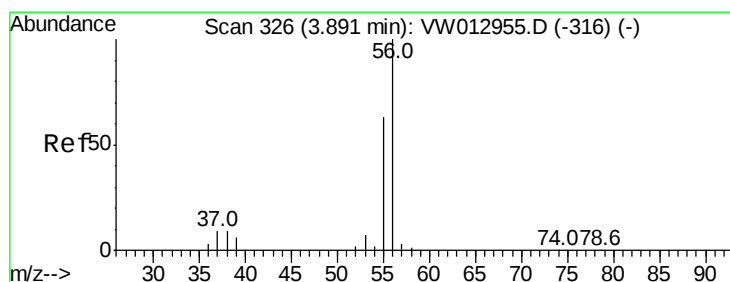
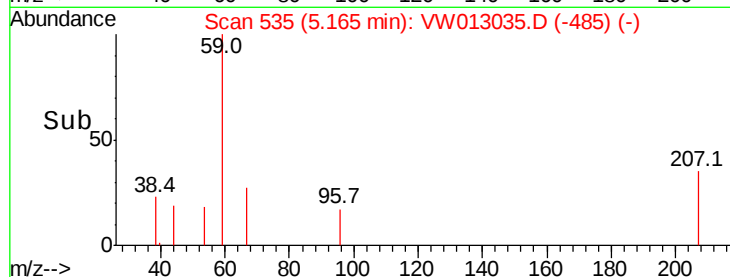
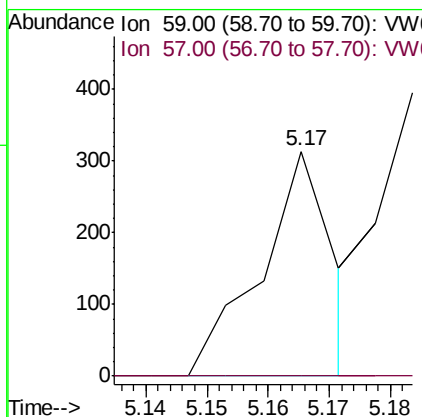
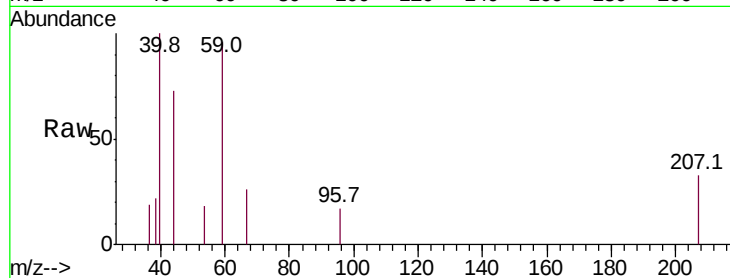


#11

Tert butyl alcohol
Concen: Below Cal
RT: 5.17 min Scan# 535
Delta R.T. 0.01 min
Lab File: VW013035.D
Acq: 16 Sep 2019 12:32

Instrument :
MSVOA_W
ClientSampled :

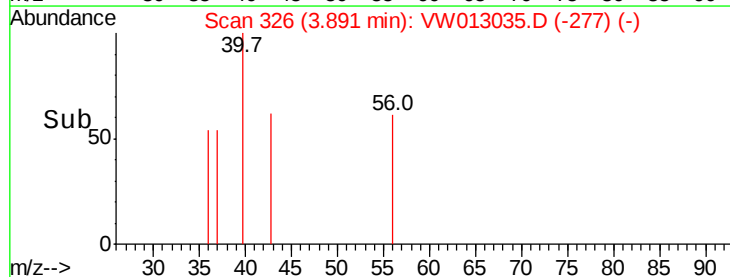
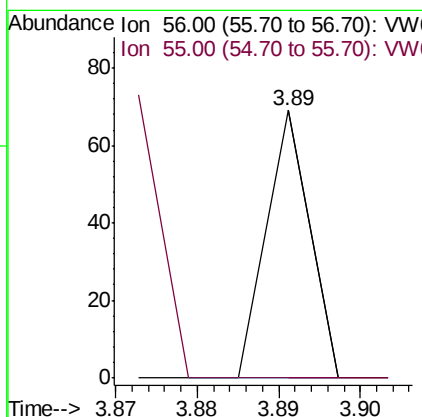
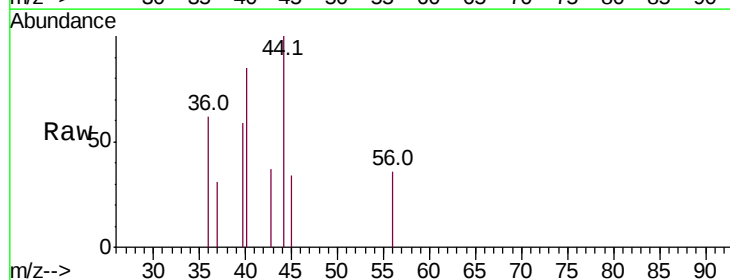
Tot Ion: 59 Resp: 254
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

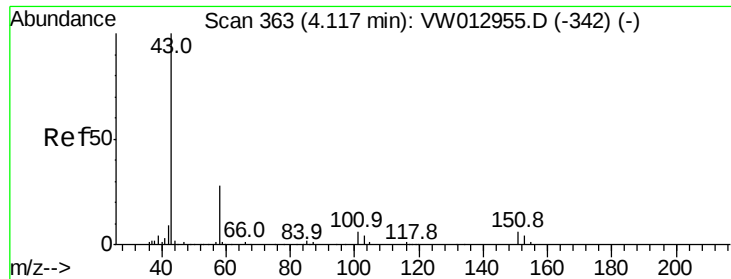


#13

Acrolein
Concen: Below Cal
RT: 3.89 min Scan# 326
Delta R.T. 0.00 min
Lab File: VW013035.D
Acq: 16 Sep 2019 12:32

Tgt Ion: 56 Resp: 25
Ion Ratio Lower Upper
56 100
55 0.0 55.8 83.8#

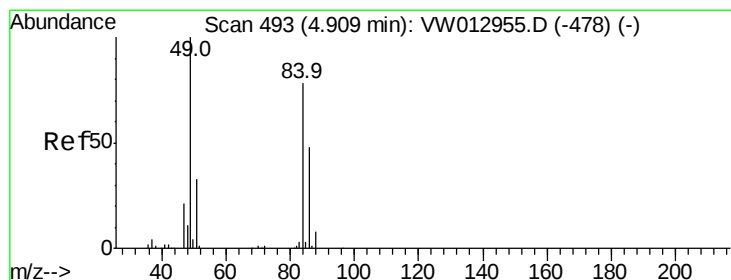
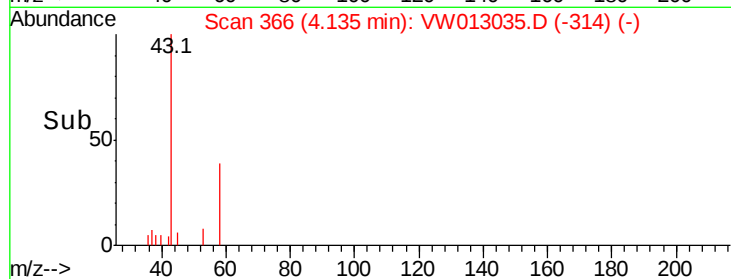
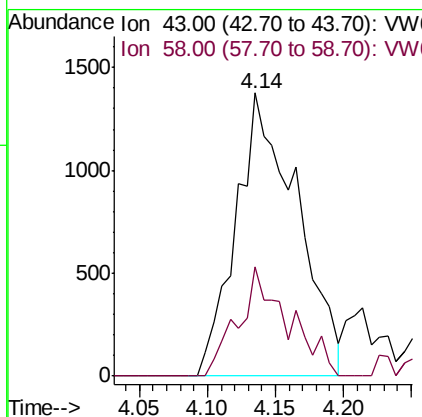
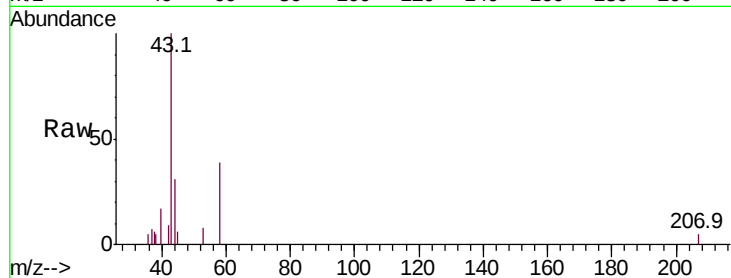




#16
Acetone
Concen: Below Cal
RT: 4.14 min Scan# 366
Delta R.T. 0.02 min
Lab File: VW013035.D
Acq: 16 Sep 2019 12:32

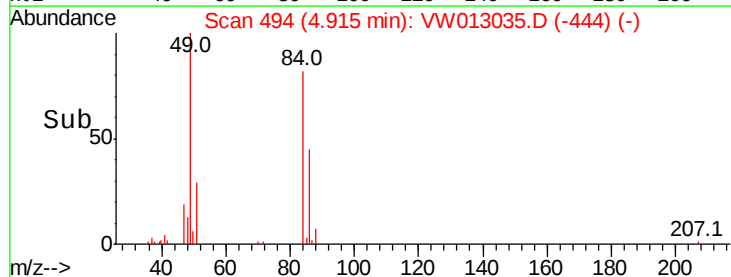
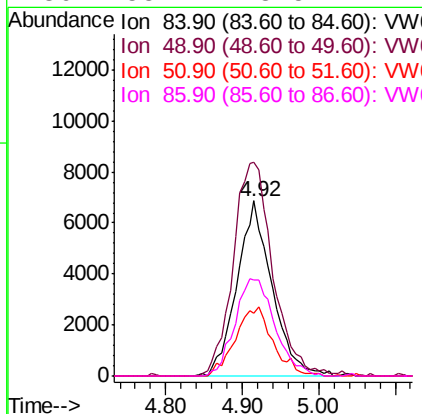
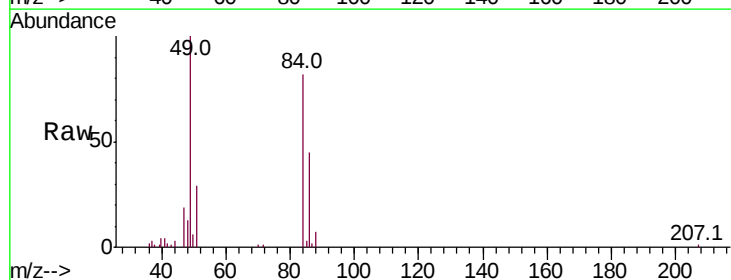
Instrument :
MSVOA_W
ClientSampleId :

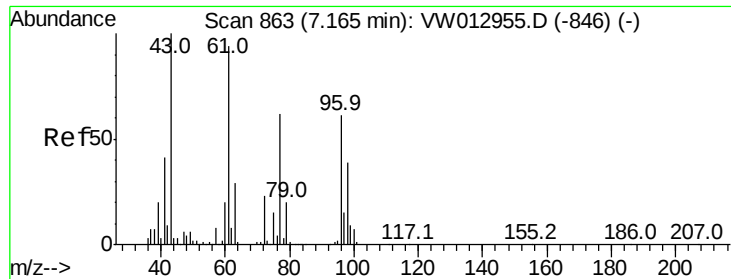
Tot Ion: 43 Resp: 4309
Ion Ratio Lower Upper
43 100
58 38.5 22.3 33.5#



#20
Methylene Chloride
Concen: 6.090 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW013035.D
Acq: 16 Sep 2019 12:32

Tgt Ion: 84 Resp: 21862
Ion Ratio Lower Upper
84 100
49 121.9 102.0 153.0
51 35.6 34.0 51.0
86 55.1 48.5 72.7





#25

2-Butanone

Concen: 1.106 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW013035.D

Acq: 16 Sep 2019 12:32

Instrument :

MSVOA_W

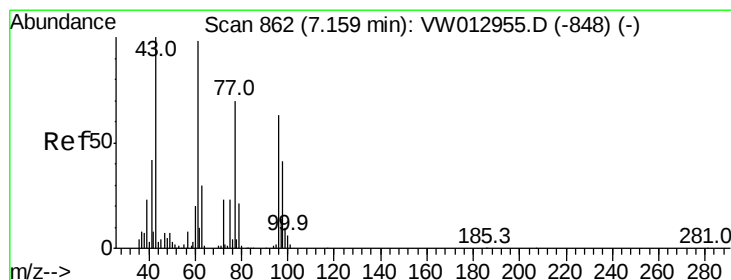
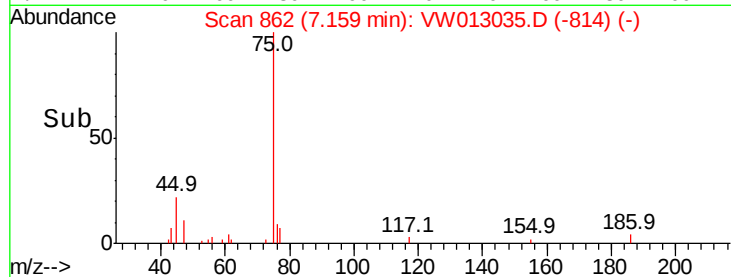
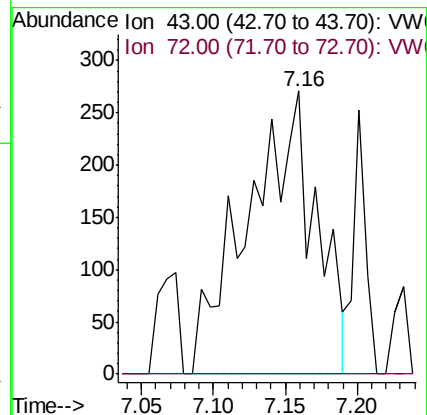
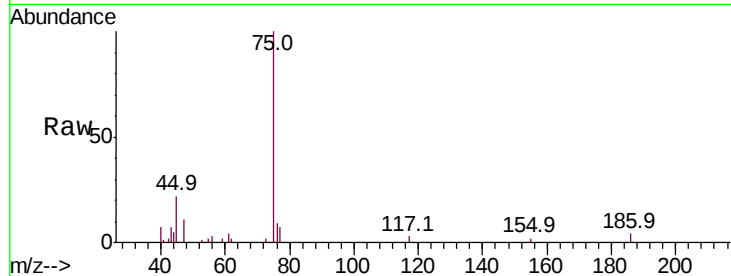
ClientSampled :

Tot Ion: 43 Resp: 894

Ion Ratio Lower Upper

43 100

72 32.1 18.2 27.4#



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.13 min Scan# 858

Delta R.T. -0.02 min

Lab File: VW013035.D

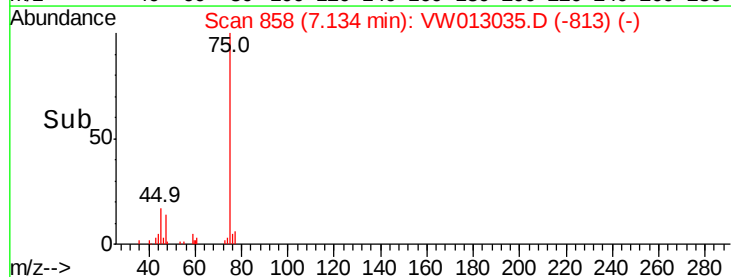
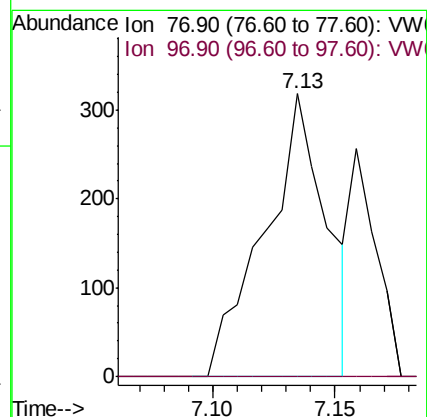
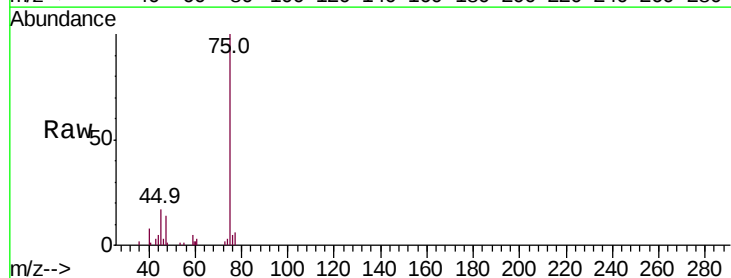
Acq: 16 Sep 2019 12:32

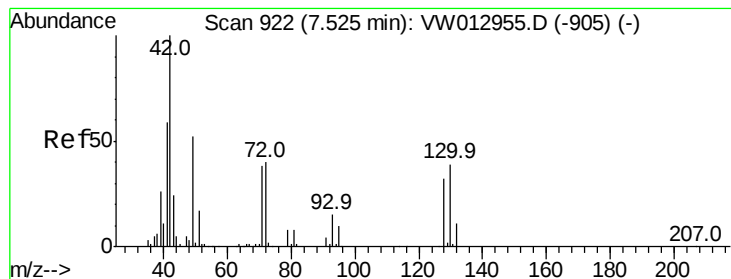
Tgt Ion: 77 Resp: 557

Ion Ratio Lower Upper

77 100

97 0.0 10.7 32.1#





#29

Tetrahydrofuran

Concen: 12.274 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW013035.D

Acq: 16 Sep 2019 12:32

Instrument :

MSVOA_W

ClientSampled :

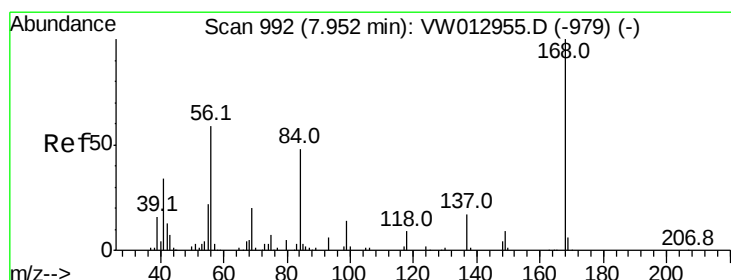
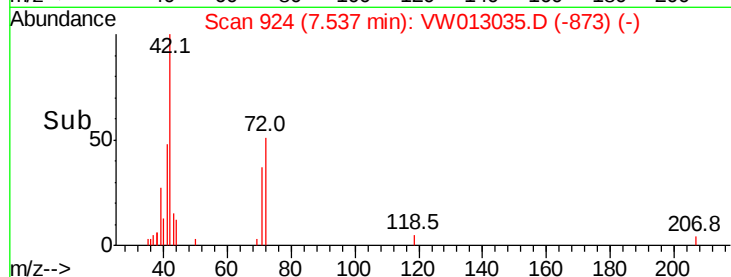
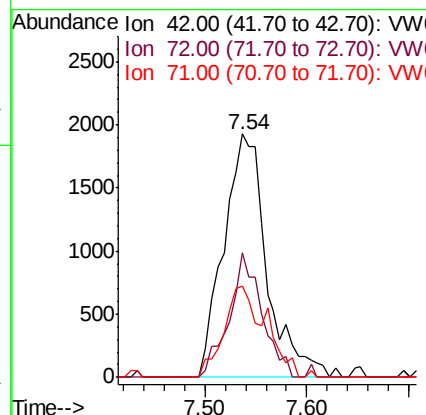
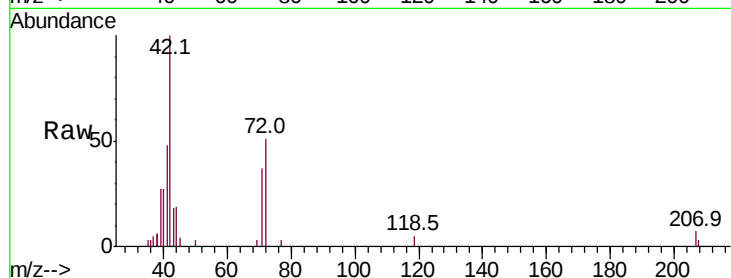
Tot Ion: 42 Resp: 5653

Ion Ratio Lower Upper

42 100

72 38.7 31.4 47.0

71 36.4 29.8 44.8



#31

Cyclohexane

Concen: Below Cal

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW013035.D

Acq: 16 Sep 2019 12:32

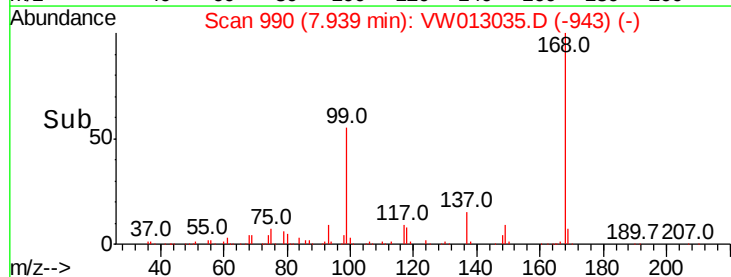
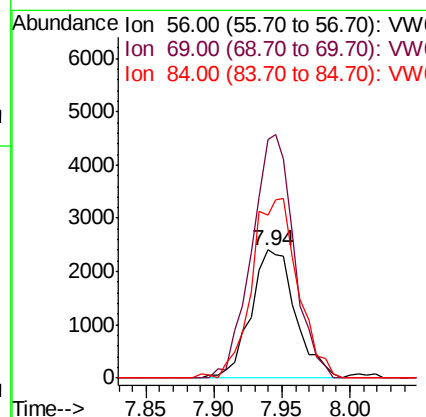
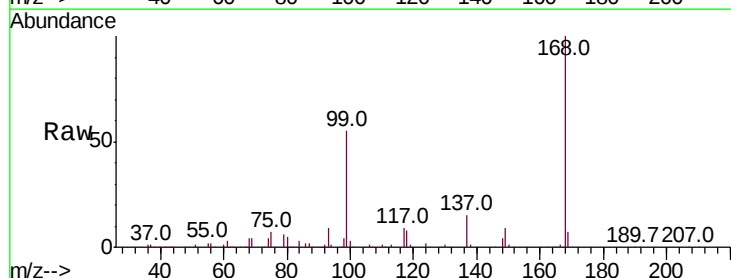
Tgt Ion: 56 Resp: 5515

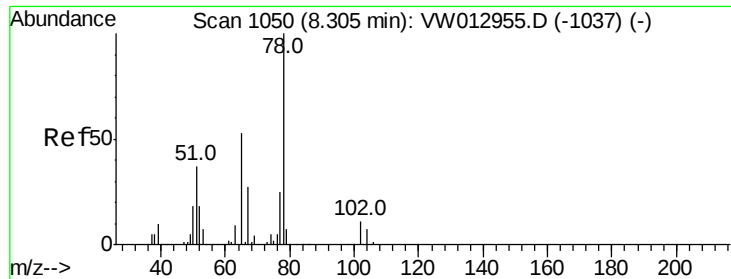
Ion Ratio Lower Upper

56 100

69 186.8 27.0 40.6#

84 127.5 66.2 99.2#





#33

1,2-Dichloroethane-d4

Concen: 54.191 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW013035.D

Acq: 16 Sep 2019 12:32

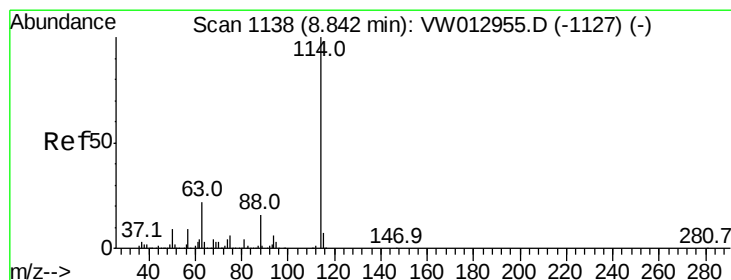
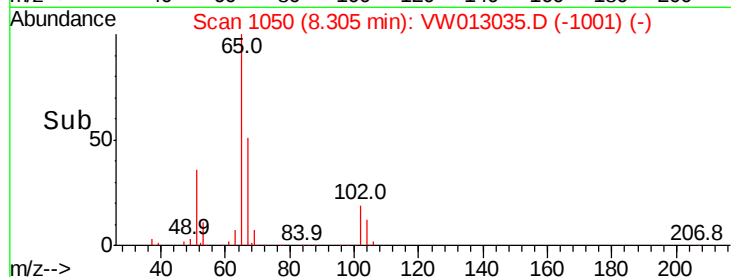
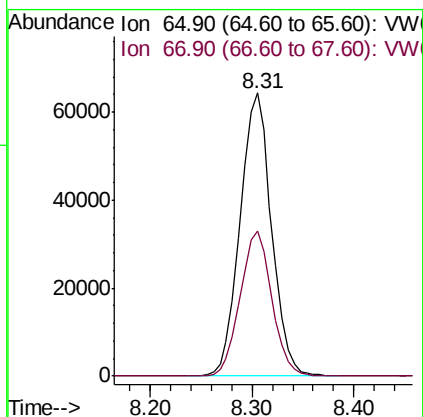
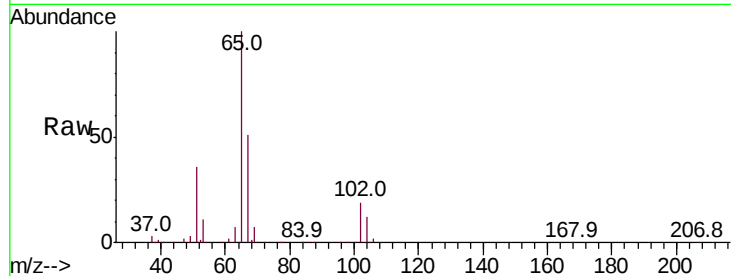
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 65 Resp: 137758

Ion Ratio Lower Upper

65 100

67 51.5 0.0 101.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW013035.D

Acq: 16 Sep 2019 12:32

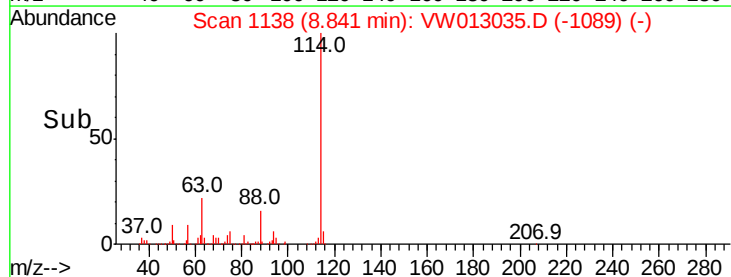
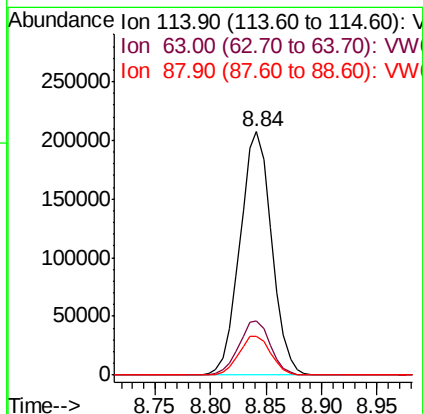
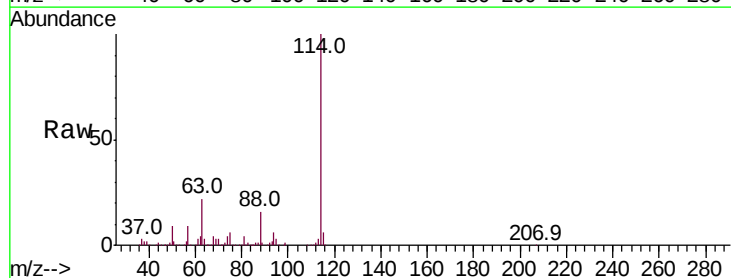
Tgt Ion: 114 Resp: 409778

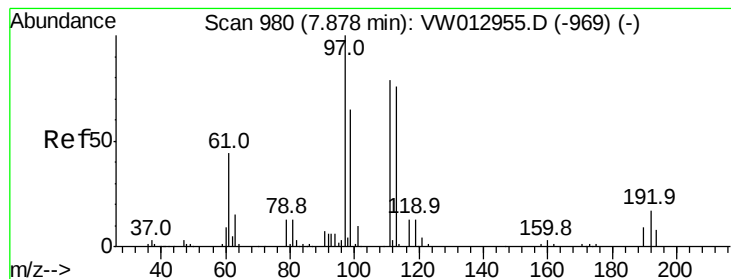
Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.4

88 16.0 0.0 31.6





#35

Dibromofluoromethane

Concen: 53.790 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW013035.D

Acq: 16 Sep 2019 12:32

Instrument :

MSVOA_W

ClientSampleId :

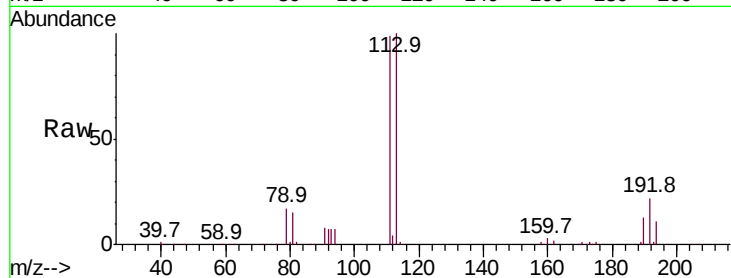
Tot Ion:113 Resp: 119603

Ion Ratio Lower Upper

113 100

111 101.3 82.8 124.2

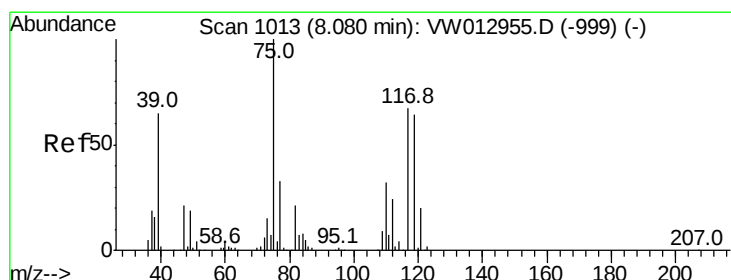
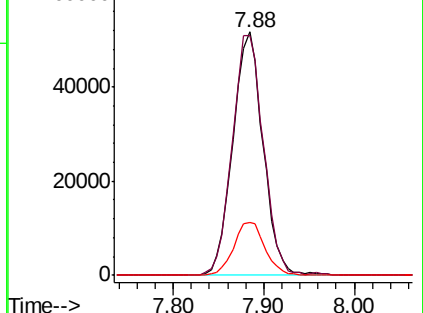
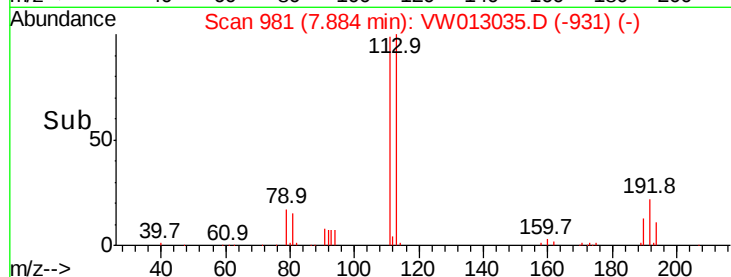
192 22.4 17.8 26.8



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: 6.030 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW013035.D

Acq: 16 Sep 2019 12:32

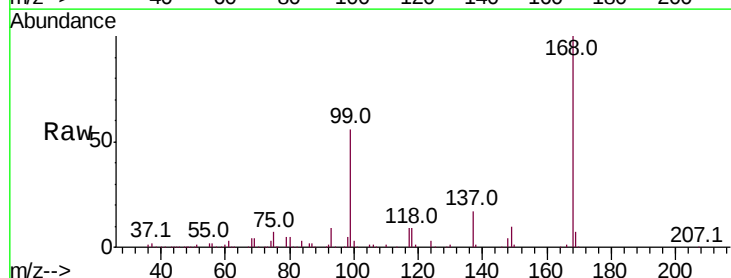
Tgt Ion: 75 Resp: 19744

Ion Ratio Lower Upper

75 100

110 8.5 16.4 49.1#

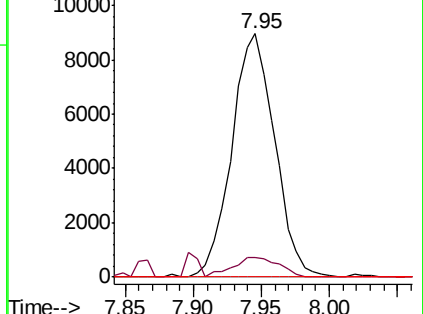
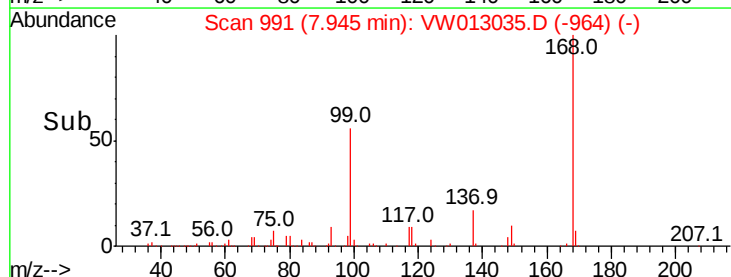
77 0.0 25.1 37.7#

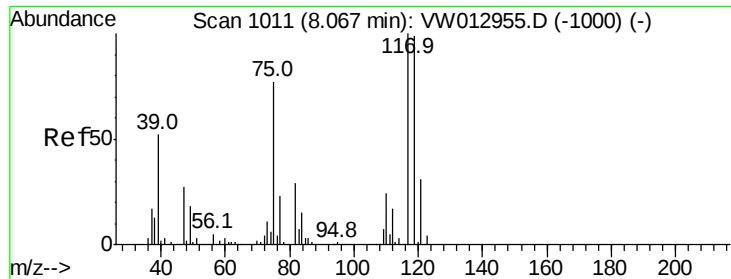


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 7.624 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW013035.D

Acq: 16 Sep 2019 12:32

Instrument :

MSVOA_W

ClientSampled :

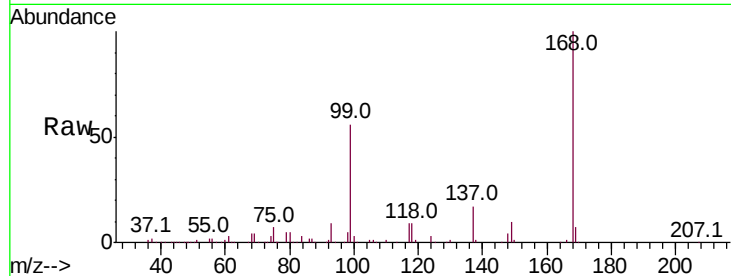
Tot Ion:117 Resp: 25584

Ion Ratio Lower Upper

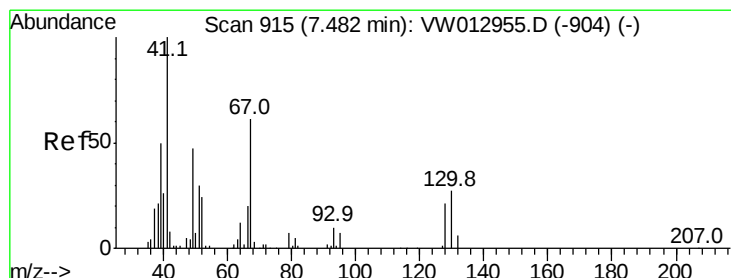
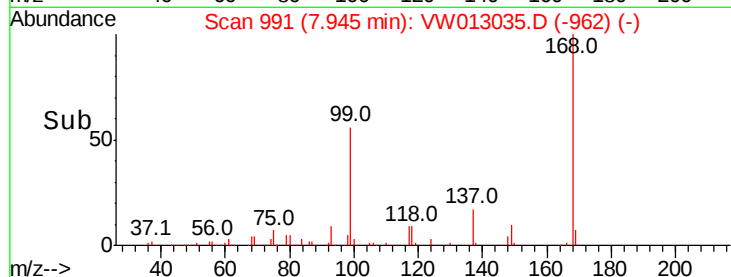
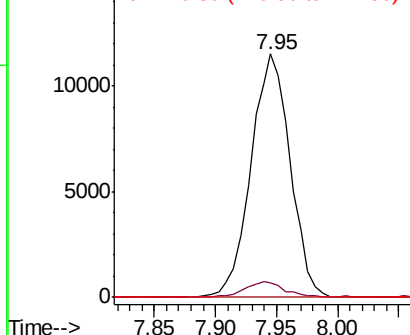
117 100

119 6.1 79.4 119.0#

121 0.0 24.6 36.8#



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



#41

Methacrylonitrile

Concen: 1.399 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.05 min

Lab File: VW013035.D

Acq: 16 Sep 2019 12:32

Tgt Ion: 41 Resp: 1601

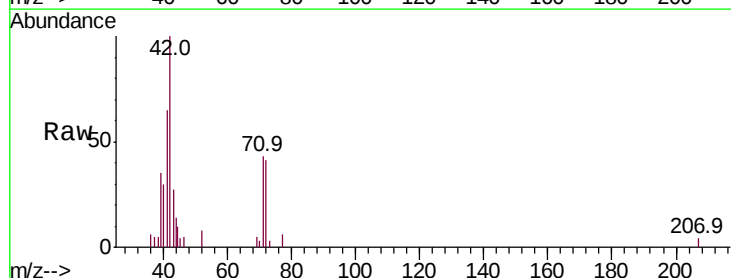
Ion Ratio Lower Upper

41 100

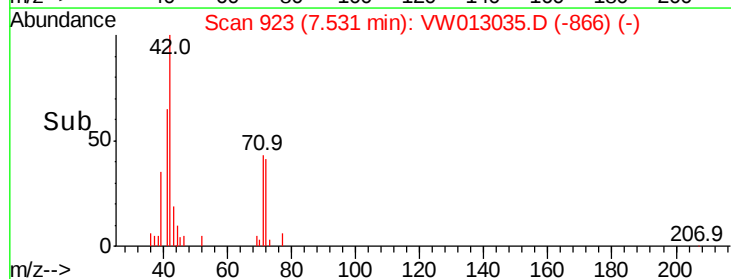
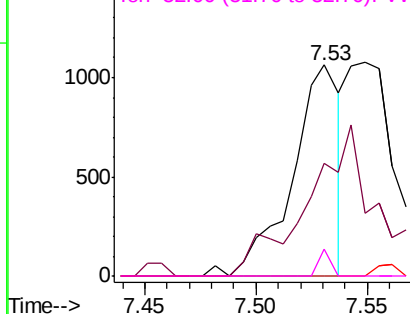
39 105.1 48.2 72.4#

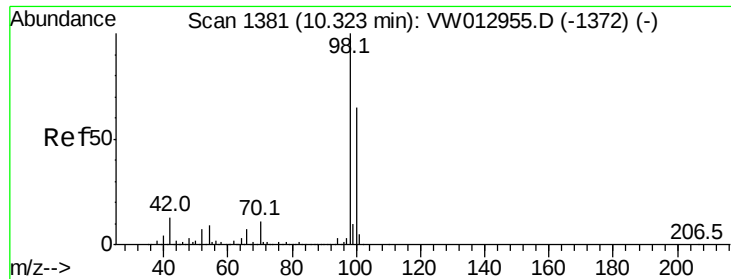
67 0.0 47.5 71.3#

52 3.1 21.0 31.4#



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

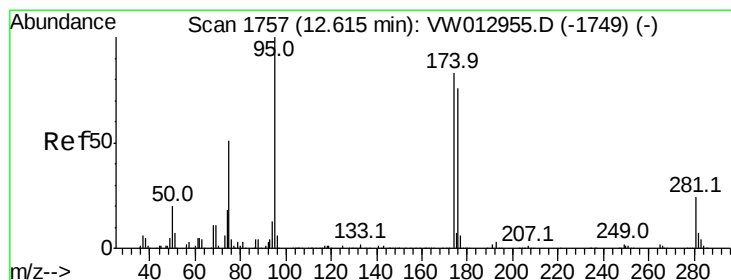
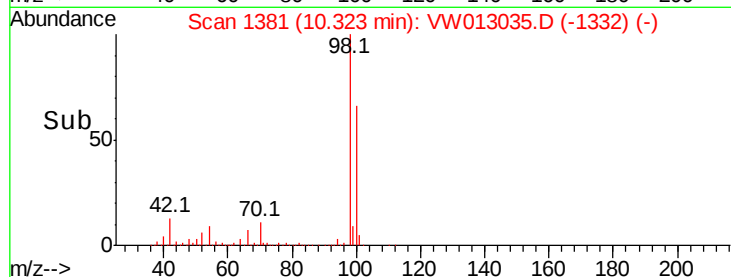
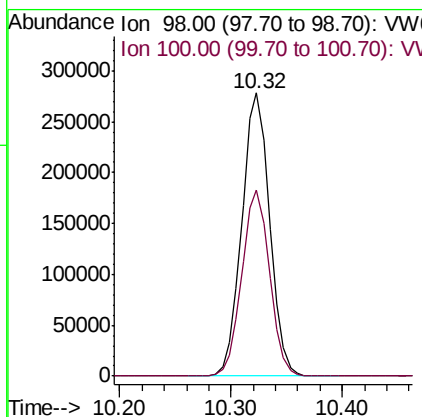
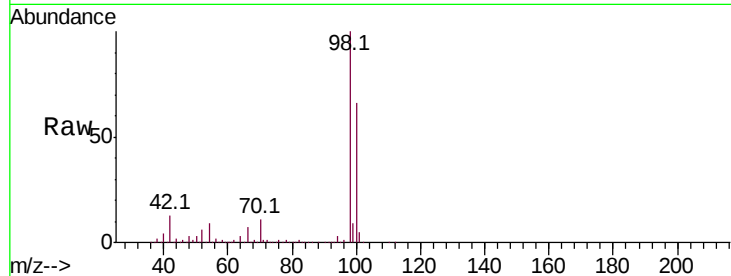




#50
Toluene-d8
Concen: 55.421 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013035.D
Acq: 16 Sep 2019 12:32

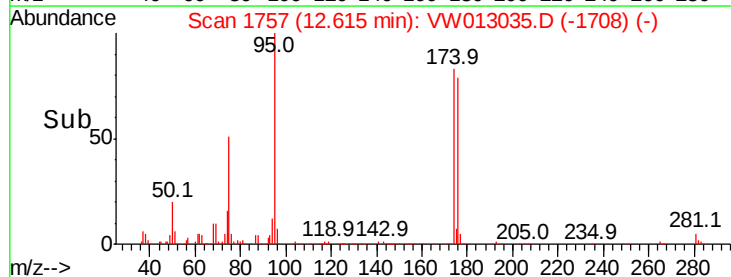
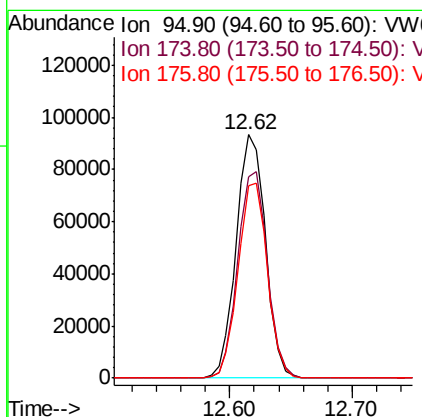
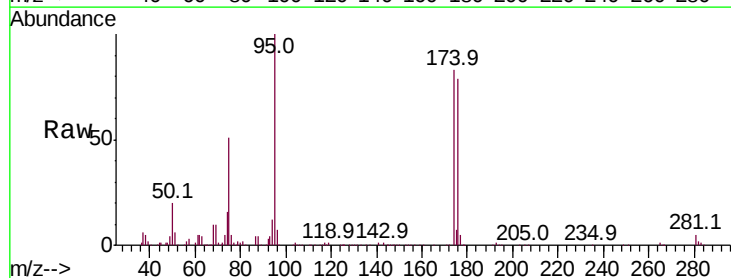
Instrument :
MSVOA_W
ClientSampleId :

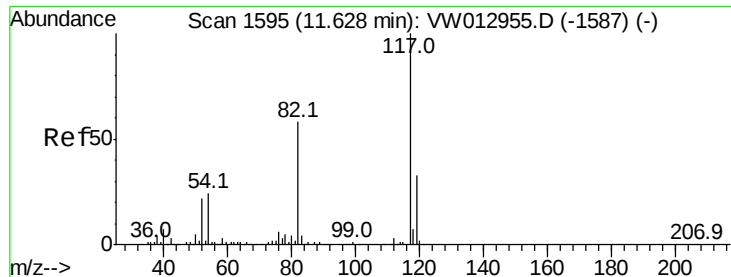
Tot Ion: 98 Resp: 482207
Ion Ratio Lower Upper
98 100
100 65.6 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 49.330 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013035.D
Acq: 16 Sep 2019 12:32

Tgt Ion: 95 Resp: 154336
Ion Ratio Lower Upper
95 100
174 85.7 0.0 170.4
176 80.4 0.0 164.6

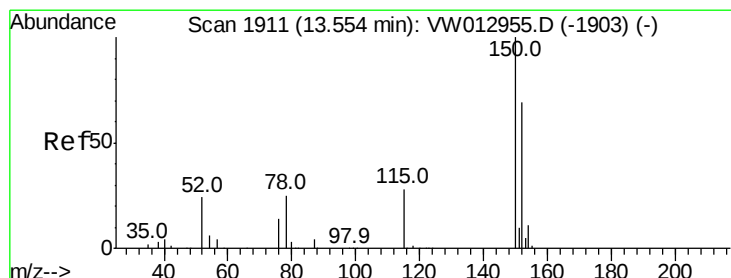
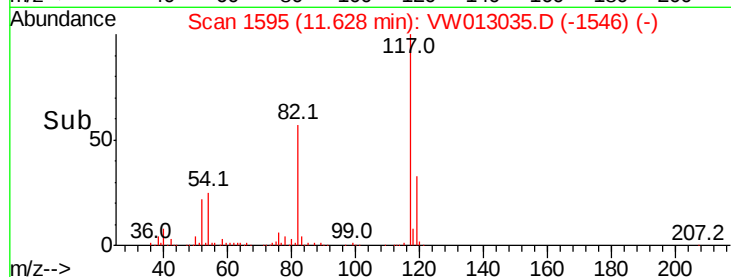
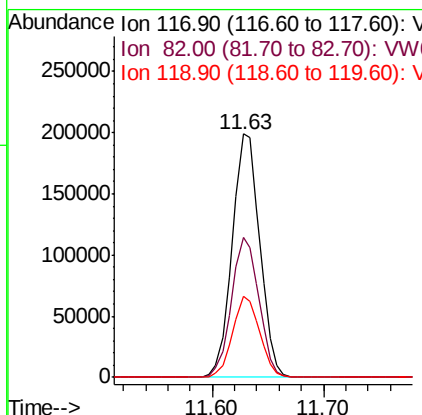
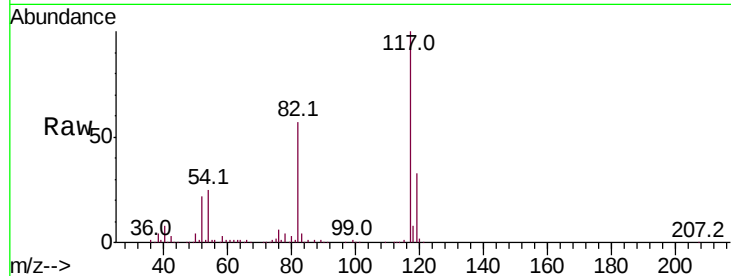




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013035.D
Acq: 16 Sep 2019 12:32

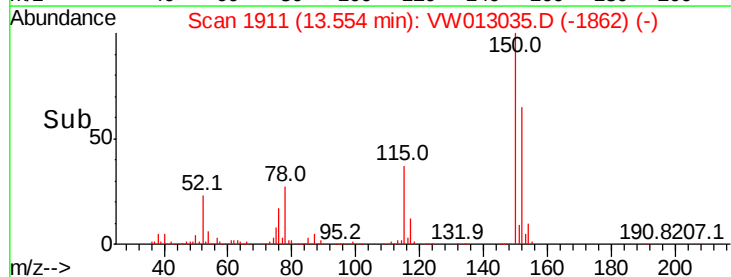
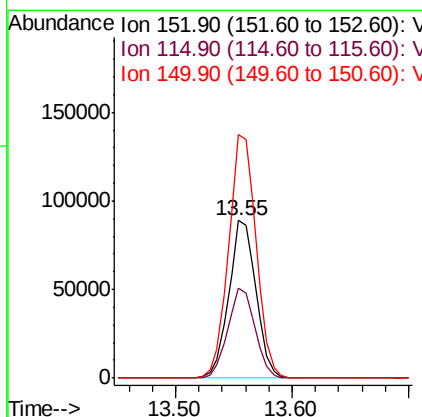
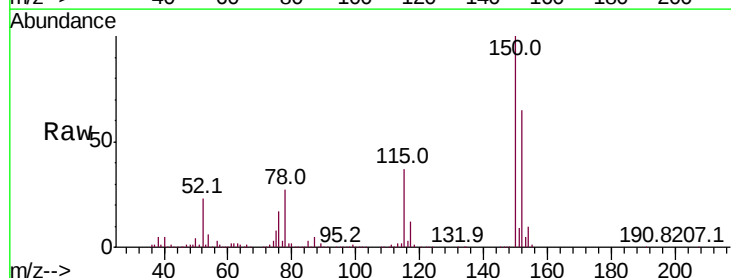
Instrument :
MSVOA_W
ClientSampled :

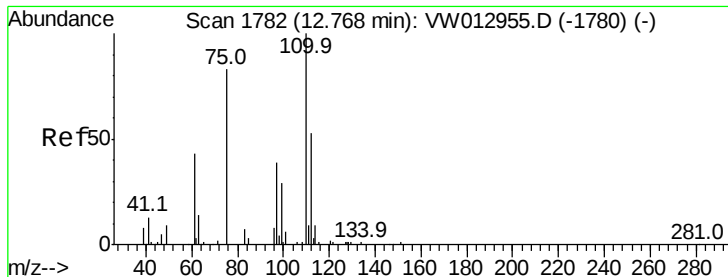
Tot Ion:117 Resp: 341401
Ion Ratio Lower Upper
117 100
82 57.2 46.3 69.5
119 33.1 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.00 min
Lab File: VW013035.D
Acq: 16 Sep 2019 12:32

Tgt Ion:152 Resp: 144366
Ion Ratio Lower Upper
152 100
115 57.2 28.8 86.4
150 156.3 0.0 340.2





#76

1,2,3-Trichloropropane

Concen: 62.211 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013035.D

Acq: 16 Sep 2019 12:32

Instrument :

MSVOA_W

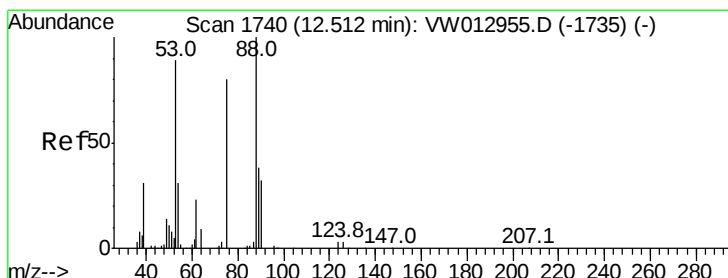
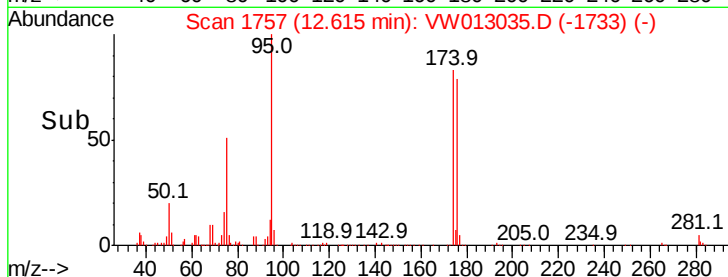
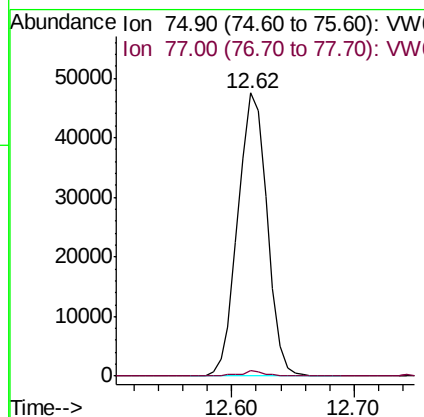
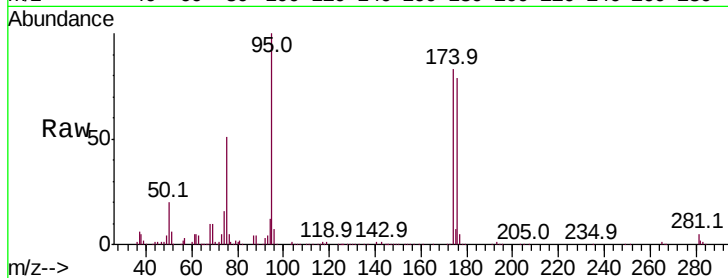
ClientSampled :

Tot Ion: 75 Resp: 78668

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 141.125 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013035.D

Acq: 16 Sep 2019 12:32

Tgt Ion: 75 Resp: 78668

Ion Ratio Lower Upper

75 100

53 0.0 85.6 128.4#

89 0.1 37.2 55.8#

