

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091519\
 Data File : VW013015.D
 Acq On : 15 Sep 2019 02:17
 Operator : SY/VA
 Sample : K4764-03
 Misc : 6.77G/5ML/MSVOA W/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 16 06:57:36 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	320506	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	484339	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	400962	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	170582	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	168662	56.98	ug/l	0.00
Spiked Amount			Recovery	=	113.96%	
35) Dibromofluoromethane	7.88	113	143116	54.46	ug/l	0.00
Spiked Amount			Recovery	=	108.92%	
50) Toluene-d8	10.32	98	580755	56.47	ug/l	0.00
Spiked Amount			Recovery	=	112.94%	
62) 4-Bromofluorobenzene	12.62	95	178105	48.16	ug/l	0.00
Spiked Amount			Recovery	=	96.32%	

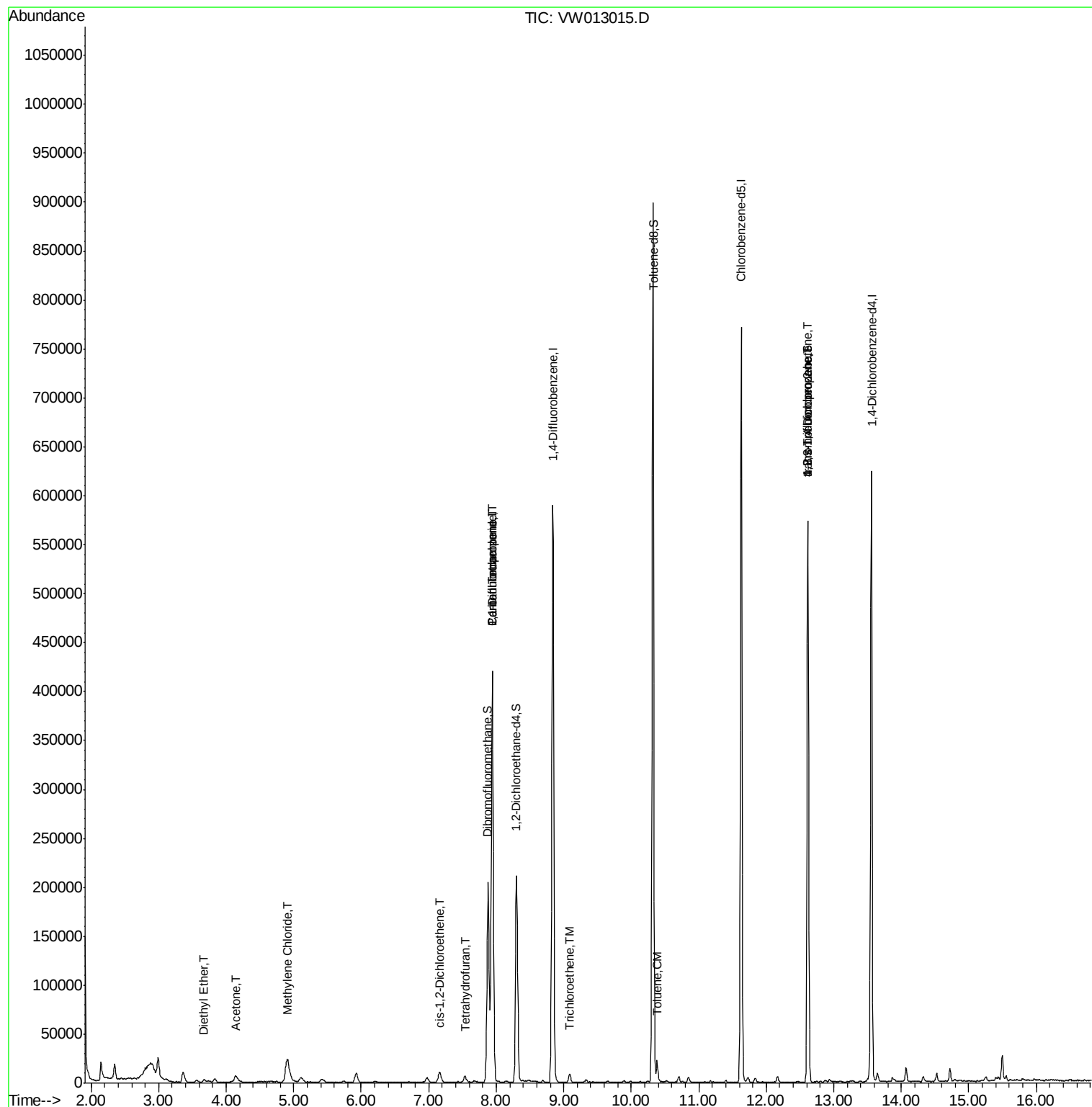
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.17	85	19	Below Cal	#	44
3) Chloromethane	2.21	50	545	Below Cal	#	85
8) Diethyl Ether	3.67	74	1336	1.067	ug/l	75
13) Acrolein	3.89	56	30	Below Cal	#	15
16) Acetone	4.14	43	14171	2.728	ug/l	93
20) Methylene Chloride	4.90	84	17163	2.221	ug/l	98
26) 2,2-Dichloropropane	7.15	77	236	Below Cal	#	67
27) cis-1,2-Dichloroethene	7.16	96	3089	1.089	ug/l	89
29) Tetrahydrofuran	7.54	42	6051	11.283	ug/l	99
31) Cyclohexane	7.94	56	7402	Below Cal	#	1
36) 1,1-Dichloropropene	7.95	75	24323	6.285	ug/l #	51
38) Carbon Tetrachloride	7.94	117	30108	7.591	ug/l #	14
44) Trichloroethene	9.10	130	3170	1.071	ug/l	84
52) Toluene	10.39	92	8798	1.281	ug/l	97
76) 1,2,3-Trichloropropane	12.62	75	94705	63.383	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	94705	143.784	ug/l #	7

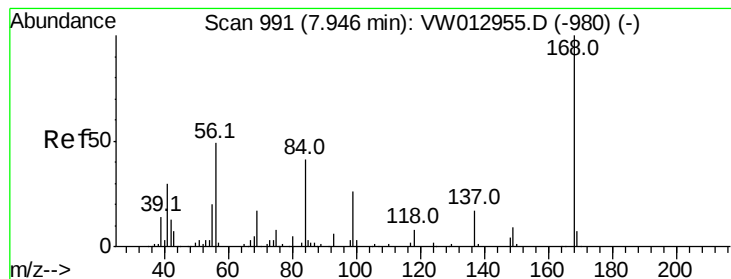
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091519\
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Quant Title : SW846 8260
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: VW013015.D

Acq: 15 Sep 2019 02:17

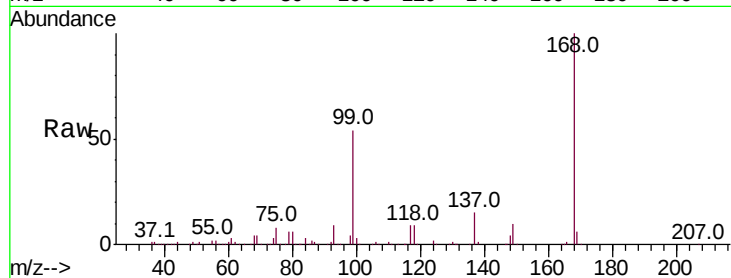
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 320506

Ion Ratio Lower Upper

168 100

99 54.2 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

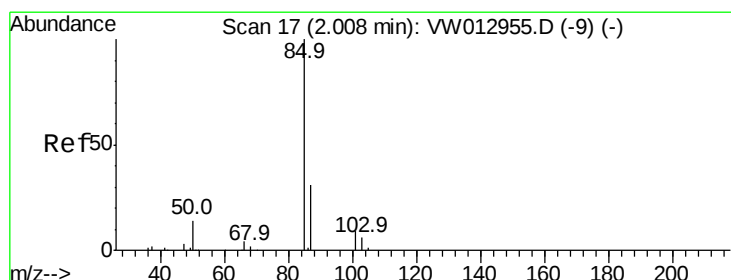
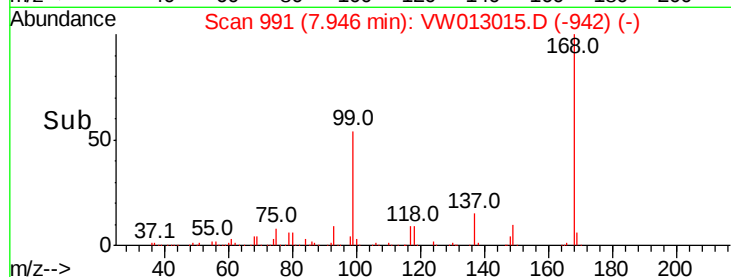
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.17 min Scan# 43

Delta R.T. 0.16 min

Lab File: VW013015.D

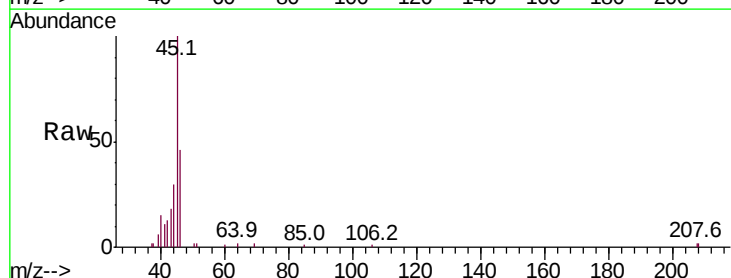
Acq: 15 Sep 2019 02:17

Tgt Ion: 85 Resp: 19

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

2.17

60

50

40

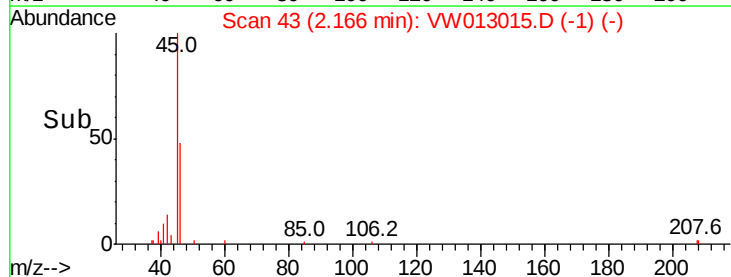
30

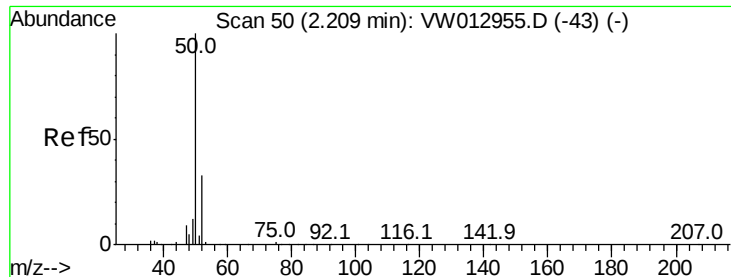
20

10

0

Time--> 2.15 2.16 2.17 2.18





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW013015.D

Acq: 15 Sep 2019 02:17

Instrument :

MSVOA_W

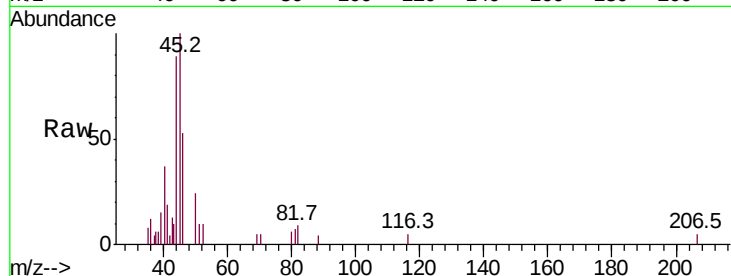
ClientSampleId :

Tot Ion: 50 Resp: 545

Ion Ratio Lower Upper

50 100

52 41.6 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.21

300

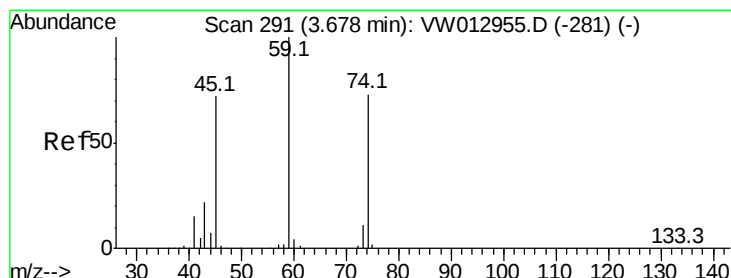
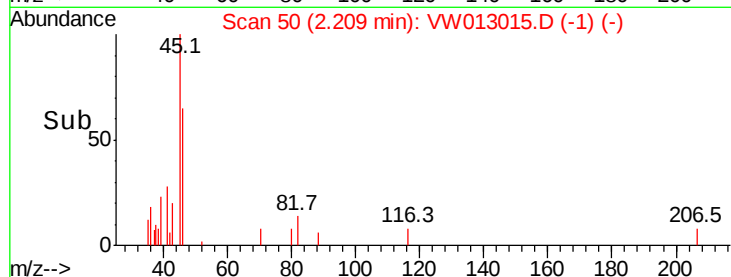
200

100

0

2.15 2.20 2.25

Time-->



#8

Diethyl Ether

Concen: 1.067 ug/l

RT: 3.67 min Scan# 289

Delta R.T. -0.01 min

Lab File: VW013015.D

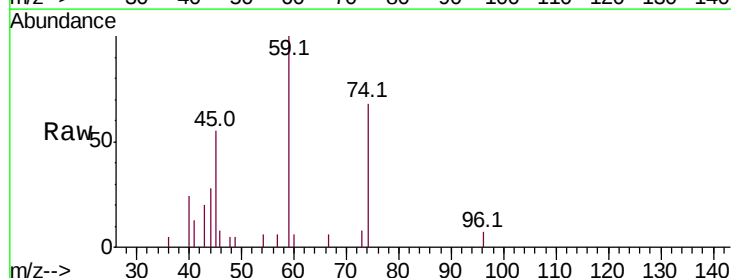
Acq: 15 Sep 2019 02:17

Tgt Ion: 74 Resp: 1336

Ion Ratio Lower Upper

74 100

45 134.0 53.8 161.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

800

600

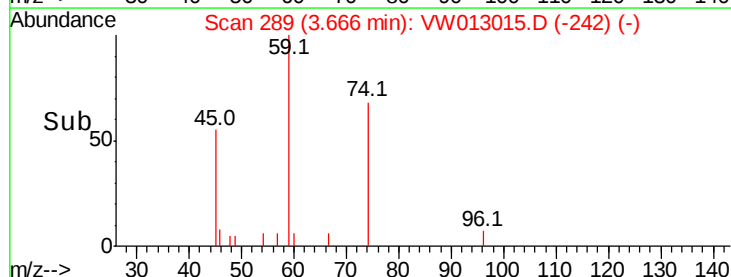
400

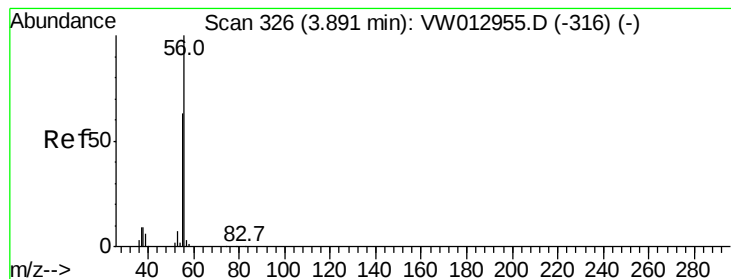
200

0

3.60 3.65 3.70 3.75

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW013015.D

Acq: 15 Sep 2019 02:17

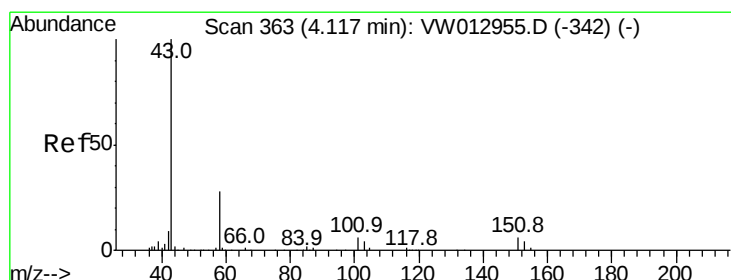
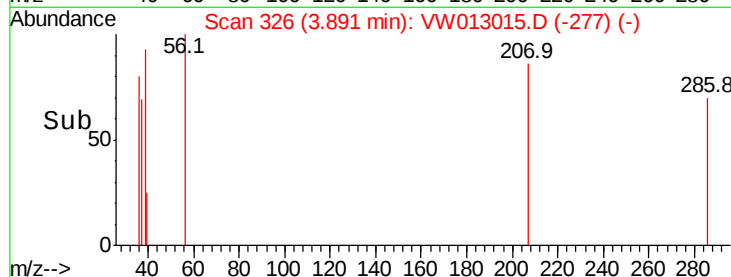
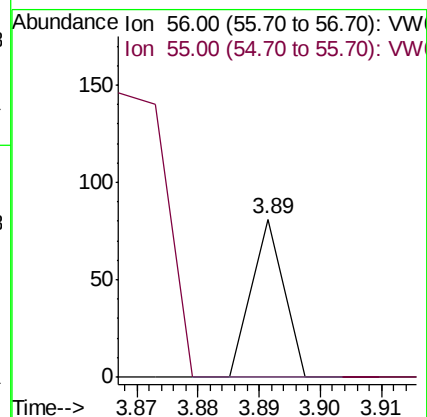
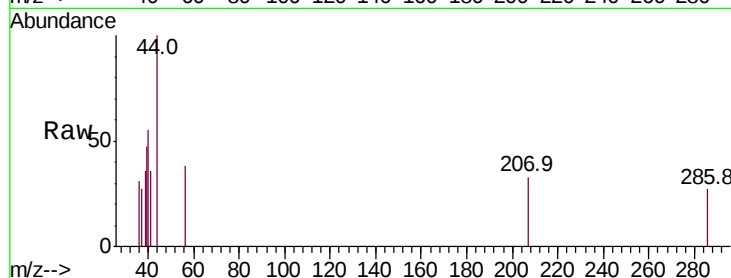
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 30

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



#16

Acetone

Concen: 2.728 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.03 min

Lab File: VW013015.D

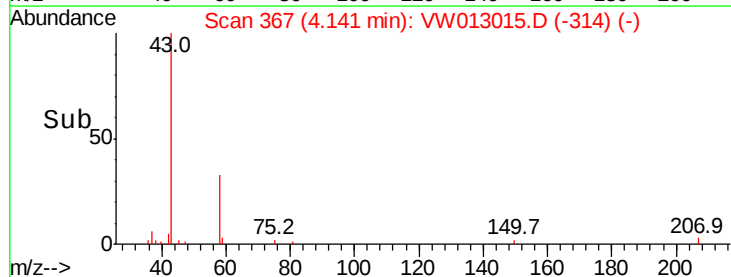
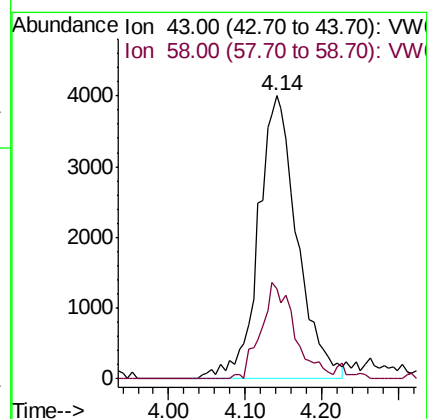
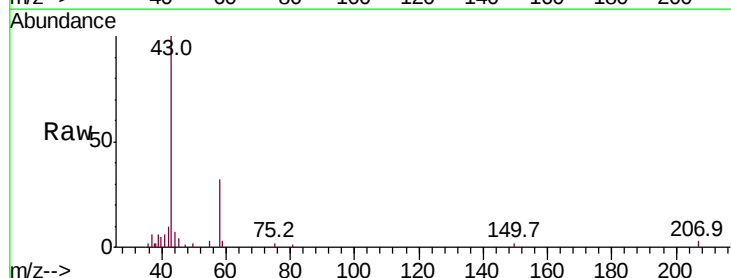
Acq: 15 Sep 2019 02:17

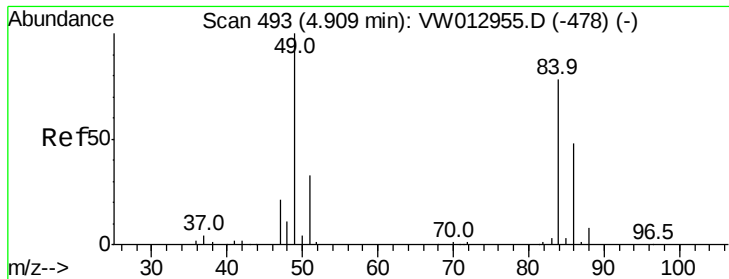
Tgt Ion: 43 Resp: 14171

Ion Ratio Lower Upper

43 100

58 31.8 22.3 33.5





#20

Methylene Chloride

Concen: 2.221 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW013015.D

Acq: 15 Sep 2019 02:17

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 84 Resp: 17163

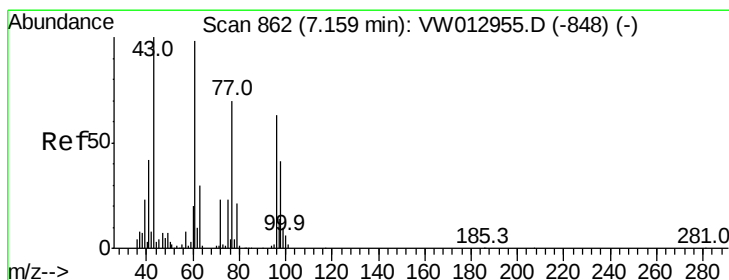
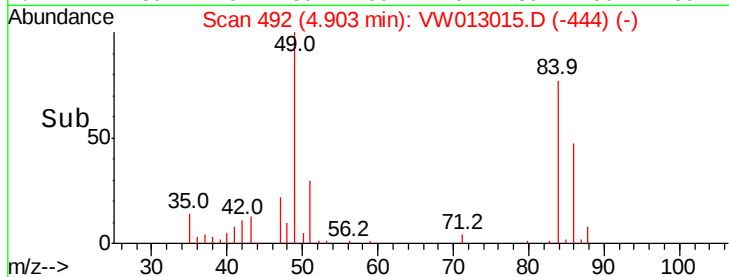
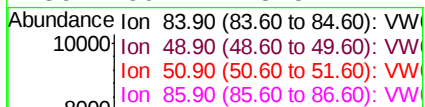
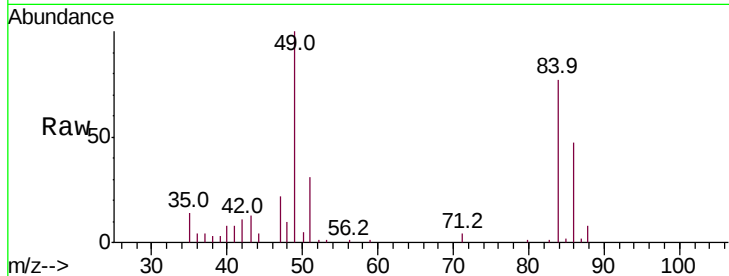
Ion	Ratio	Lower	Upper
84	100		
49	130.1	102.0	153.0
51	38.8	34.0	51.0
86	60.7	48.5	72.7

84 100

49 130.1 102.0 153.0

51 38.8 34.0 51.0

86 60.7 48.5 72.7



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW013015.D

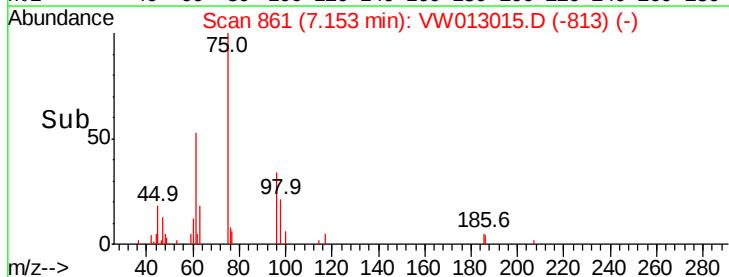
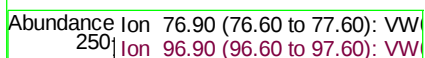
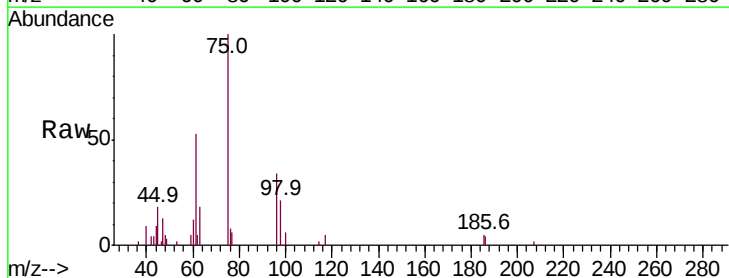
Acq: 15 Sep 2019 02:17

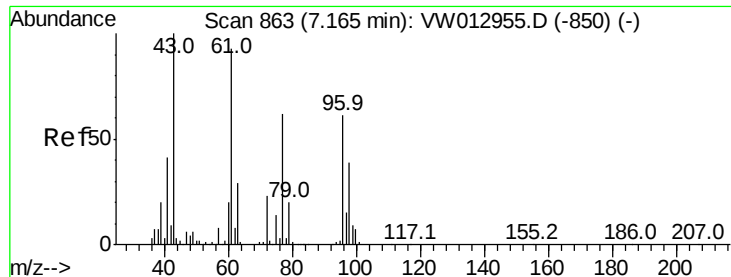
Tgt Ion: 77 Resp: 236

Ion	Ratio	Lower	Upper
77	100		
97	36.9	10.7	32.1#

77 100

97 36.9 10.7 32.1#



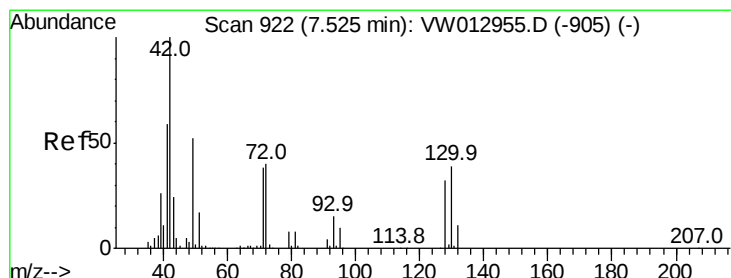
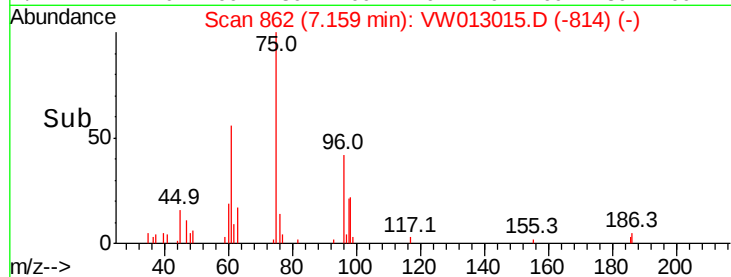
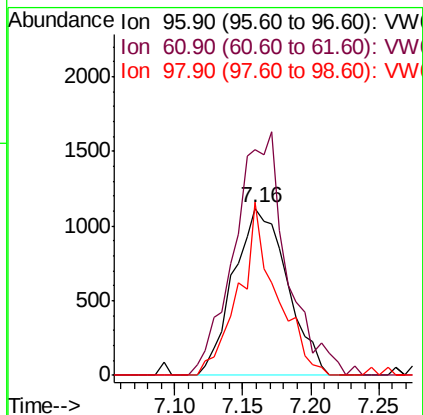
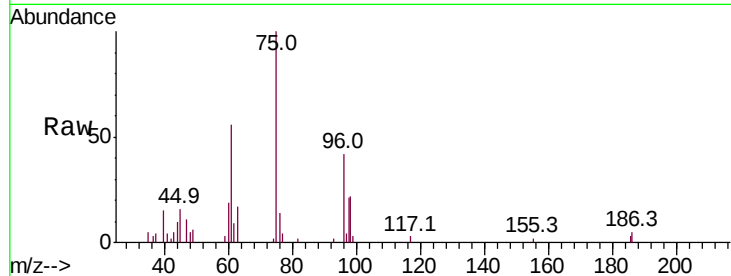


#27

cis-1,2-Dichloroethene
Concen: 1.089 ug/l
RT: 7.16 min Scan# 862
Delta R.T. -0.01 min
Lab File: VW013015.D
Acq: 15 Sep 2019 02:17

Instrument :
MSVOA_W
ClientSampled :

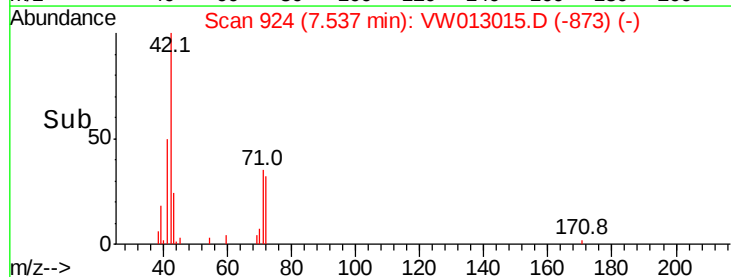
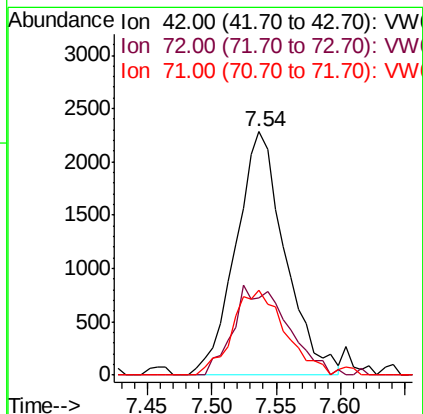
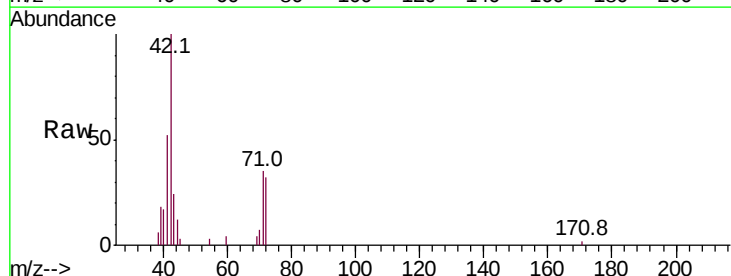
Tot Ion: 96 Resp: 3089
Ion Ratio Lower Upper
96 100
61 141.9 0.0 315.4
98 71.7 0.0 131.0

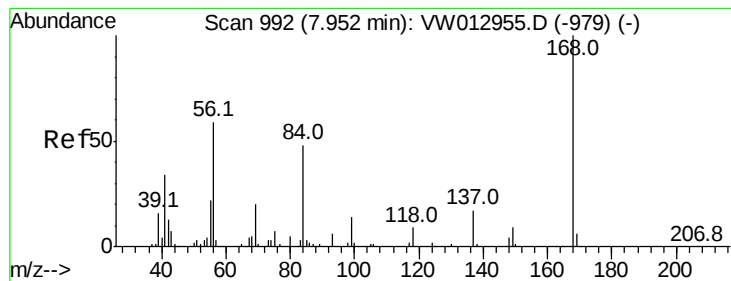


#29

Tetrahydrofuran
Concen: 11.283 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW013015.D
Acq: 15 Sep 2019 02:17

Tgt Ion: 42 Resp: 6051
Ion Ratio Lower Upper
42 100
72 40.1 31.4 47.0
71 37.1 29.8 44.8





#31

Cyclohexane

Concen: Below Cal

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

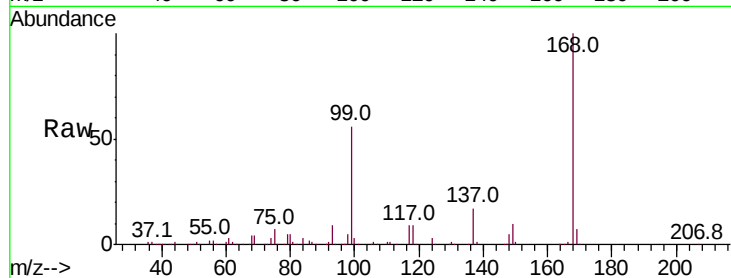
Lab File: VW013015.D

Acq: 15 Sep 2019 02:17

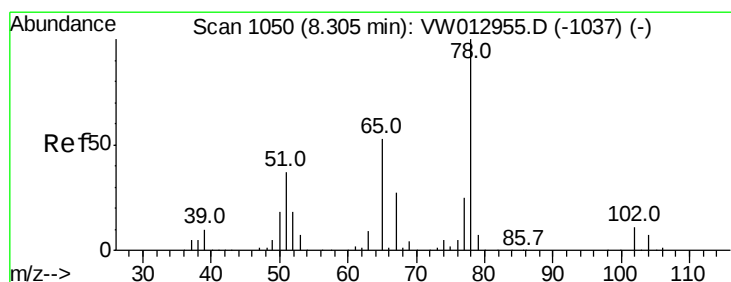
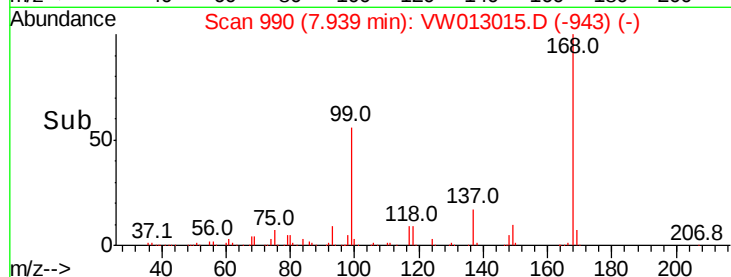
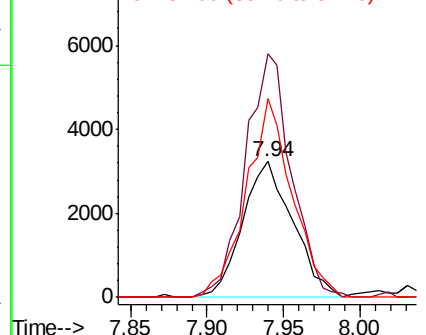
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 7402

Ion	Ratio	Lower	Upper
56	100		
69	179.4	27.0	40.6#
84	146.1	66.2	99.2#



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: 56.978 ug/l

RT: 8.30 min Scan# 1049

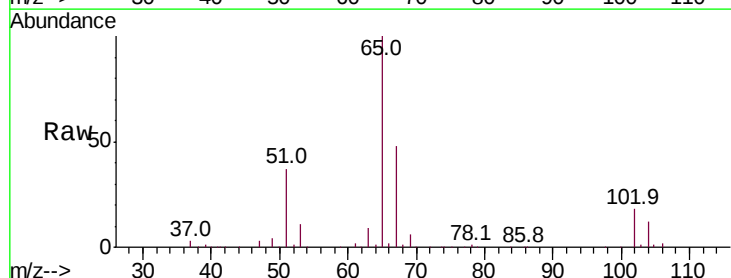
Delta R.T. -0.01 min

Lab File: VW013015.D

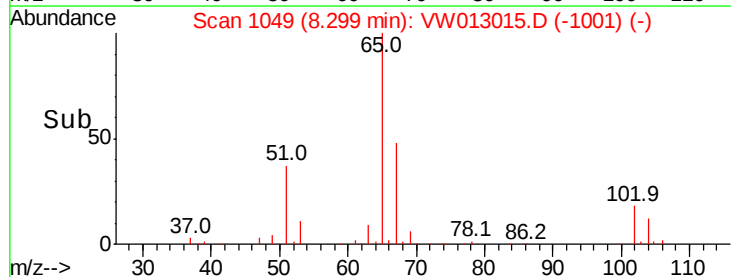
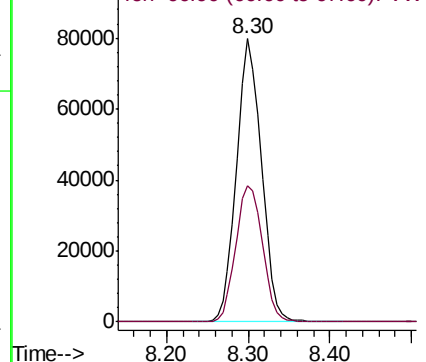
Acq: 15 Sep 2019 02:17

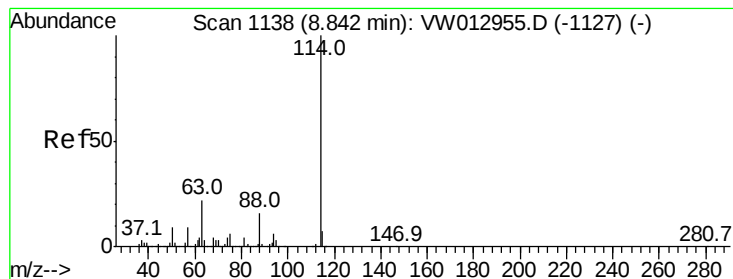
Tgt Ion: 65 Resp: 168662

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	101.2



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# 1137

Delta R.T. -0.01 min

Lab File: VW013015.D

Acq: 15 Sep 2019 02:17

Instrument :

MSVOA_W

ClientSampleId :

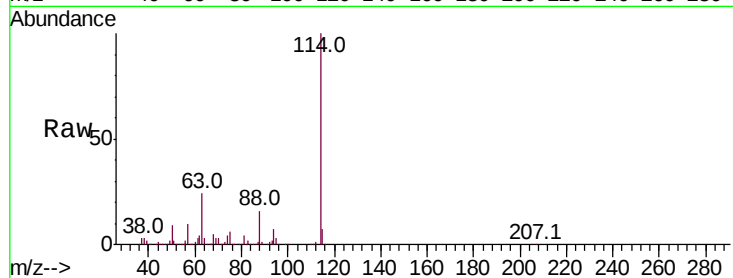
Tot Ion:114 Resp: 484339

Ion Ratio Lower Upper

114 100

63 24.2 0.0 43.4

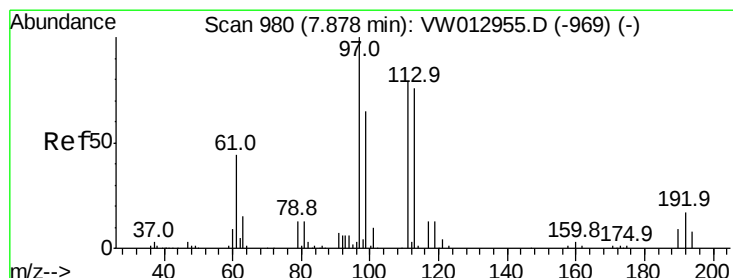
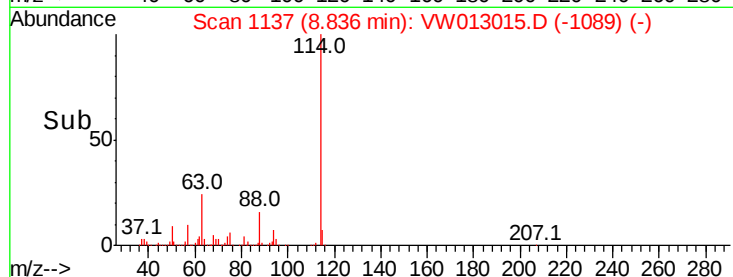
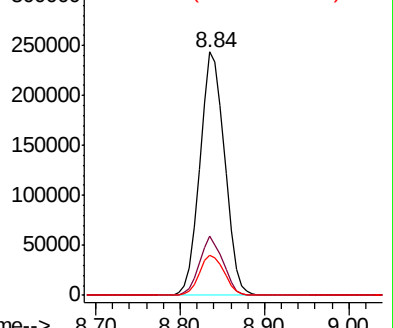
88 16.3 0.0 31.6



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: 54.456 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW013015.D

Acq: 15 Sep 2019 02:17

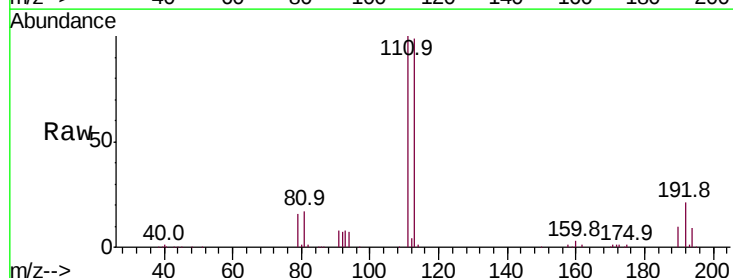
Tgt Ion:113 Resp: 143116

Ion Ratio Lower Upper

113 100

111 102.2 82.8 124.2

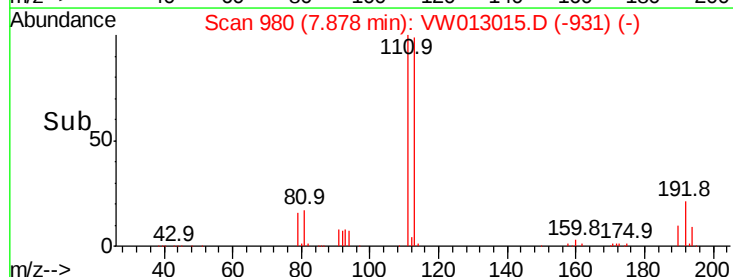
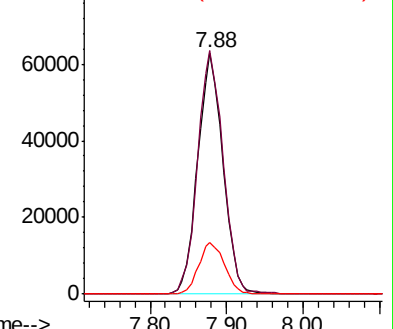
192 22.0 17.8 26.8

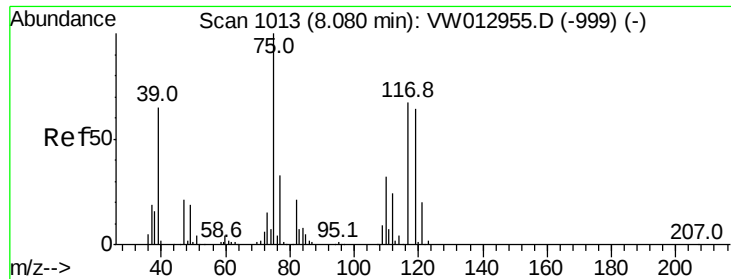


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

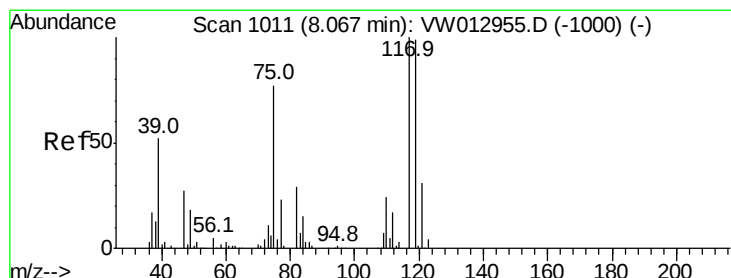
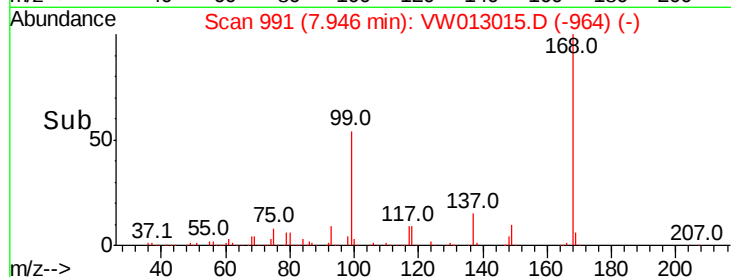
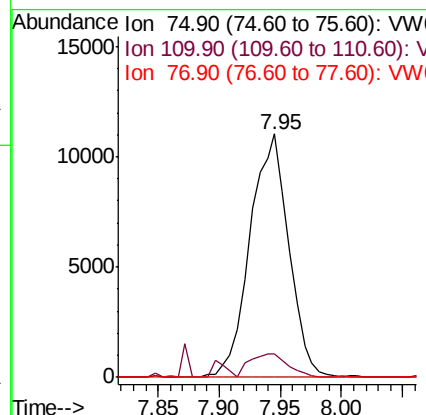
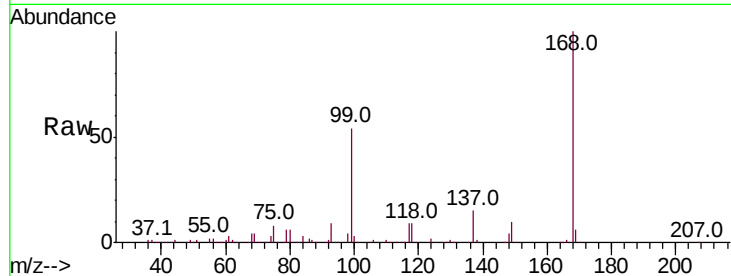




#36
 1,1-Dichloropropene
 Concen: 6.285 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW013015.D
 Acq: 15 Sep 2019 02:17

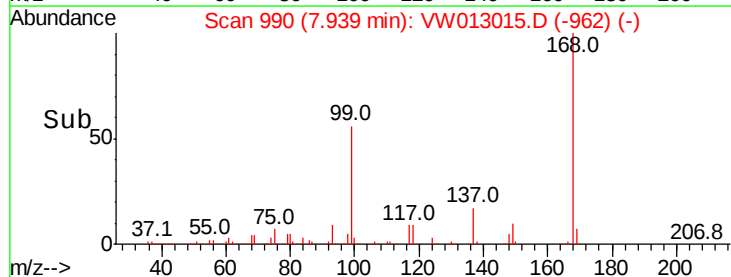
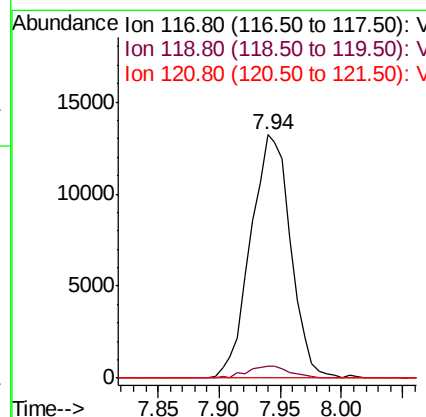
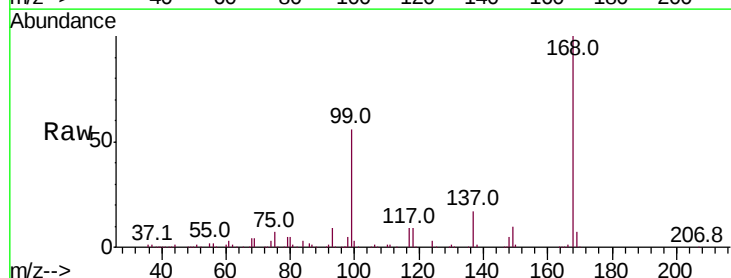
Instrument :
 MSVOA_W
 ClientSampled :

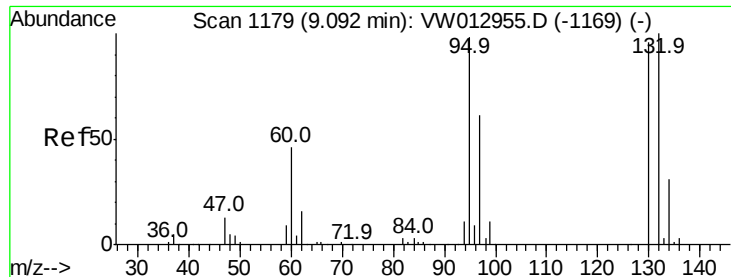
Tot Ion: 75 Resp: 24323
 Ion Ratio Lower Upper
 75 100
 110 9.6 16.4 49.1#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 7.591 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.13 min
 Lab File: VW013015.D
 Acq: 15 Sep 2019 02:17

Tgt Ion: 117 Resp: 30108
 Ion Ratio Lower Upper
 117 100
 119 4.9 79.4 119.0#
 121 0.0 24.6 36.8#





#44

Trichloroethene

Concen: 1.071 ug/l

RT: 9.10 min Scan# 1180

Delta R.T. 0.01 min

Lab File: VW013015.D

Acq: 15 Sep 2019 02:17

Instrument :

MSVOA_W

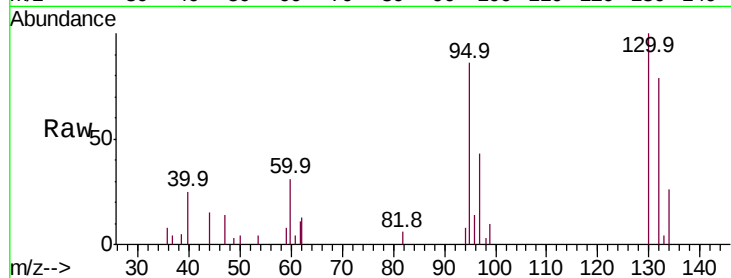
ClientSampleId :

Tot Ion:130 Resp: 3170

Ion Ratio Lower Upper

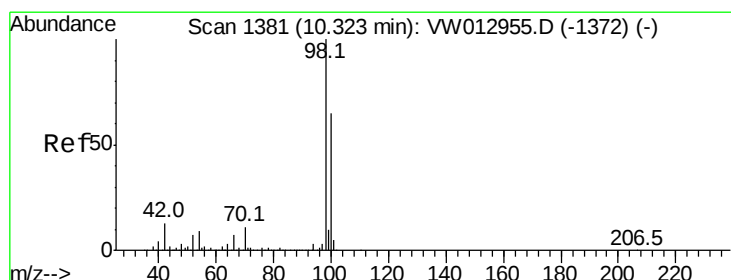
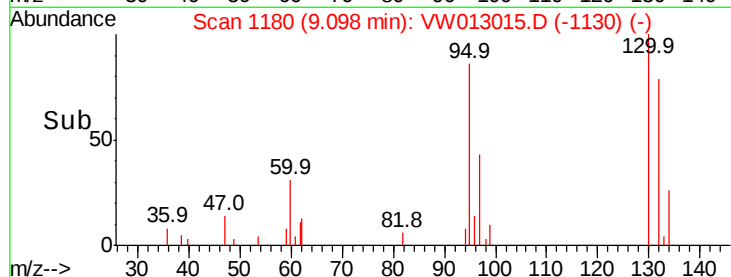
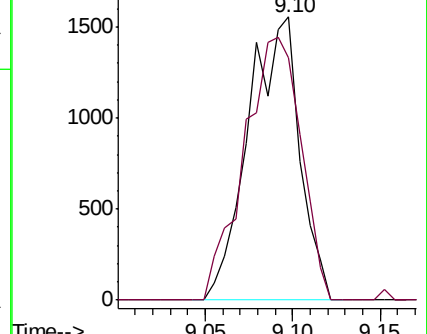
130 100

95 85.8 0.0 204.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW



#50

Toluene-d8

Concen: 56.472 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013015.D

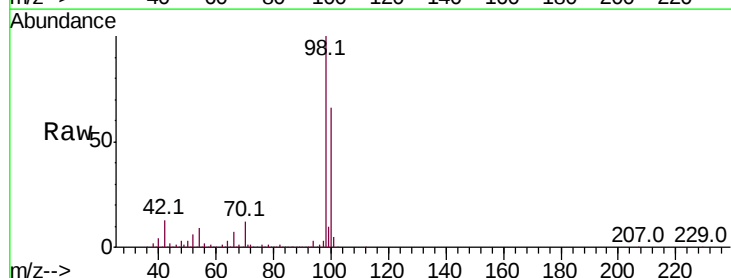
Acq: 15 Sep 2019 02:17

Tgt Ion: 98 Resp: 580755

Ion Ratio Lower Upper

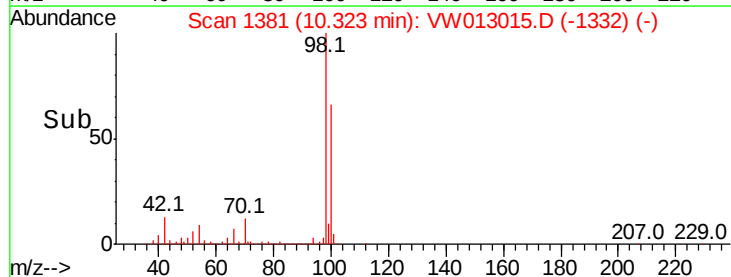
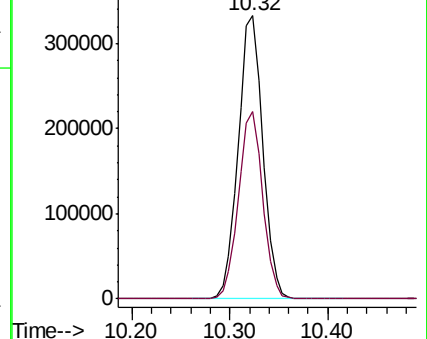
98 100

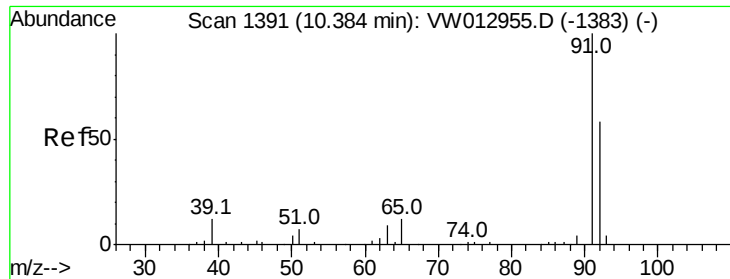
100 65.2 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 1.281 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW013015.D

Acq: 15 Sep 2019 02:17

Instrument :

MSVOA_W

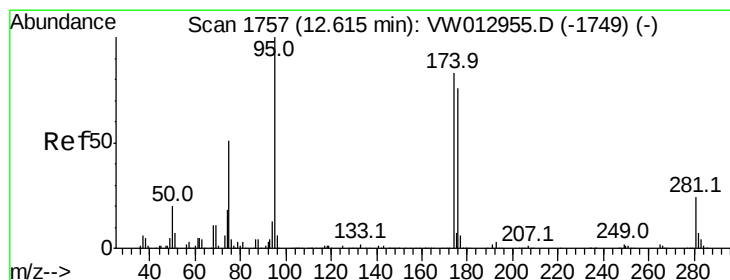
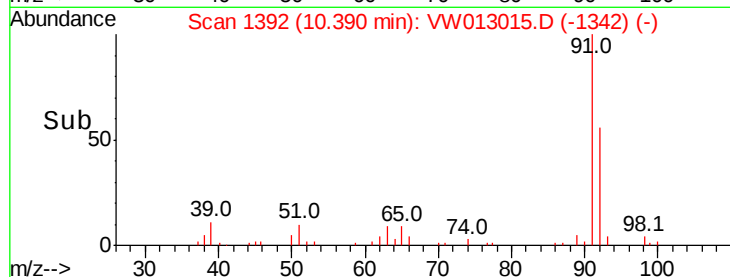
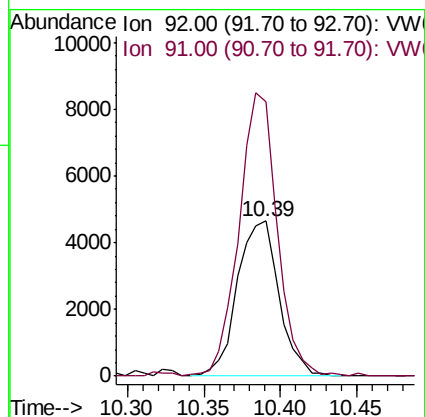
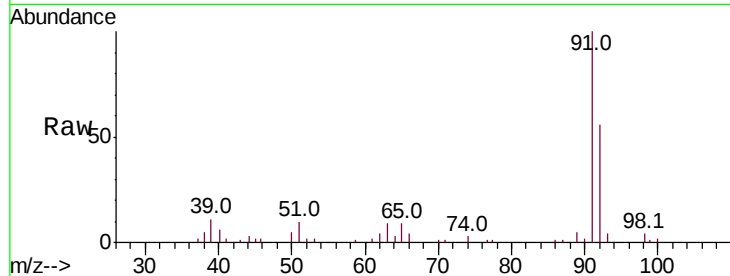
ClientSampleId :

Tot Ion: 92 Resp: 8798

Ion Ratio Lower Upper

92 100

91 168.1 137.5 206.3



#62

4-Bromofluorobenzene

Concen: 48.164 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013015.D

Acq: 15 Sep 2019 02:17

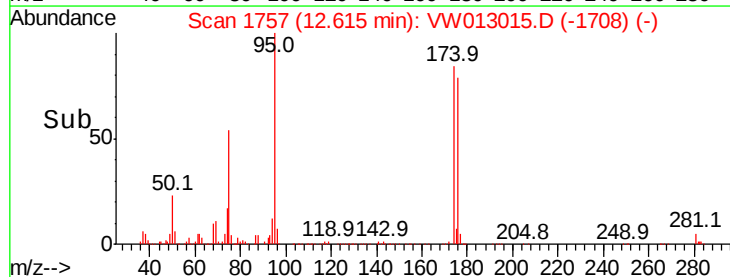
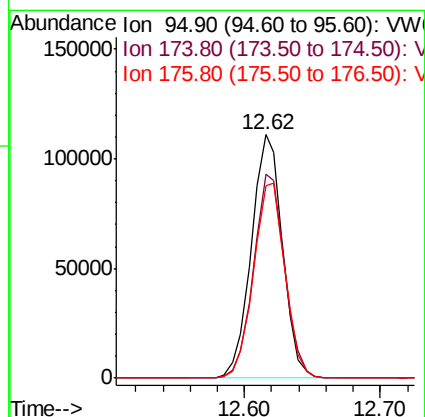
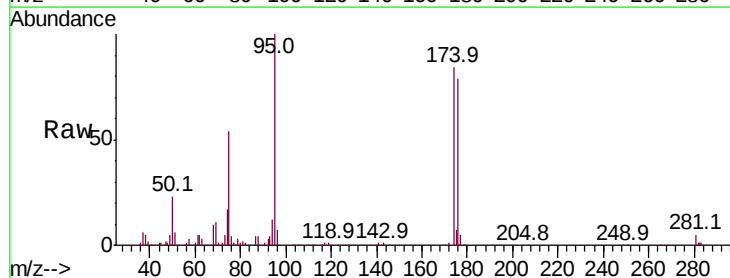
Tgt Ion: 95 Resp: 178105

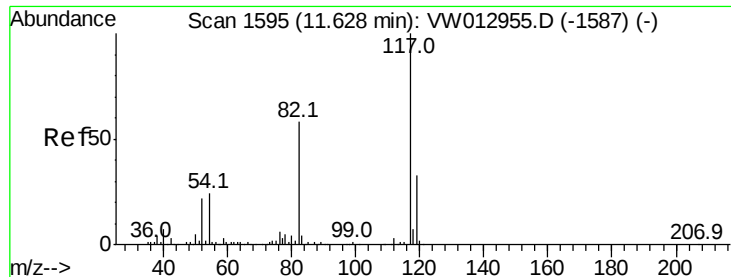
Ion Ratio Lower Upper

95 100

174 83.9 0.0 170.4

176 81.5 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: VW013015.D

Acq: 15 Sep 2019 02:17

Instrument :

MSVOA_W

ClientSampleId :

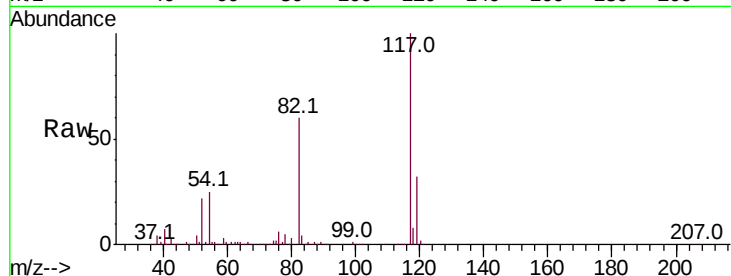
Tot Ion:117 Resp: 400962

Ion Ratio Lower Upper

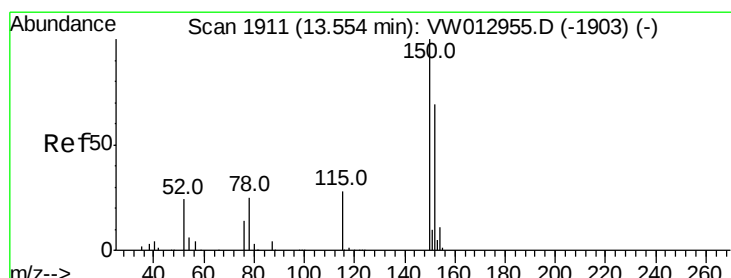
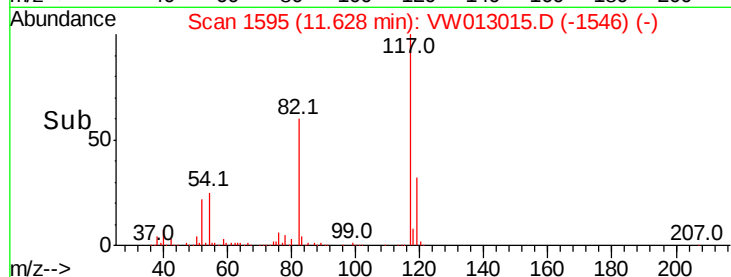
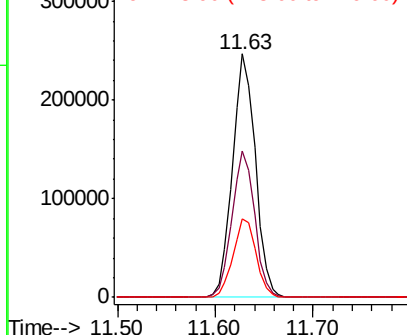
117 100

82 59.8 46.3 69.5

119 32.1 26.2 39.4



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. 0.01 min

Lab File: VW013015.D

Acq: 15 Sep 2019 02:17

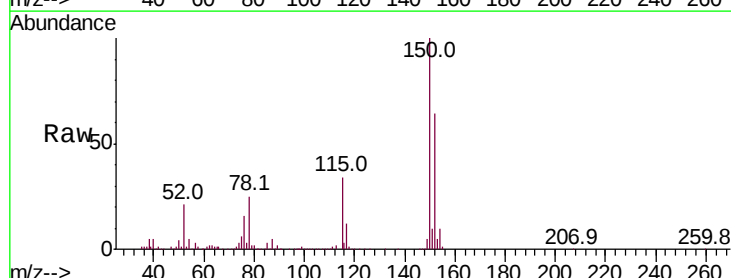
Tgt Ion:152 Resp: 170582

Ion Ratio Lower Upper

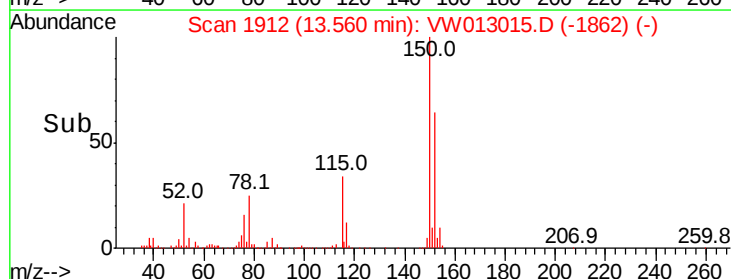
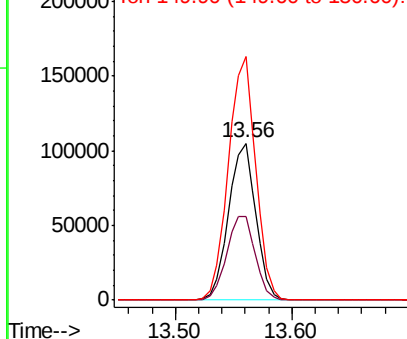
152 100

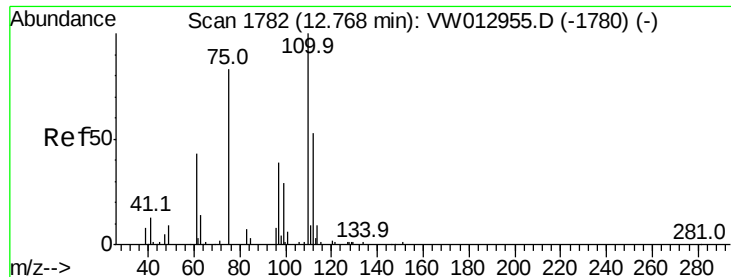
115 55.9 28.8 86.4

150 155.4 0.0 340.2



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: 63.383 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013015.D

Acq: 15 Sep 2019 02:17

Instrument :

MSVOA_W

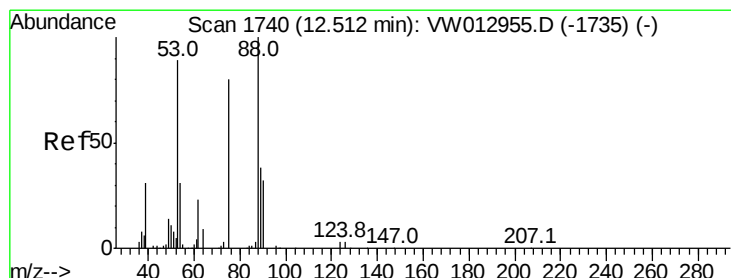
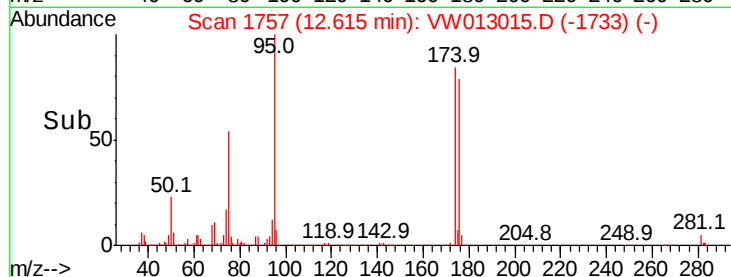
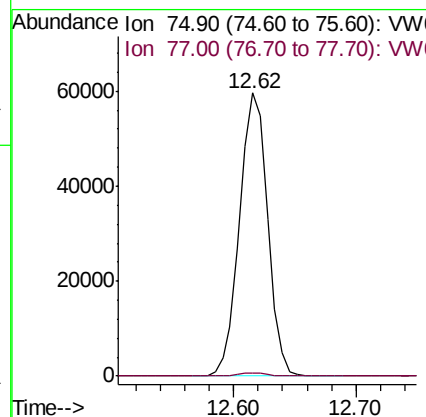
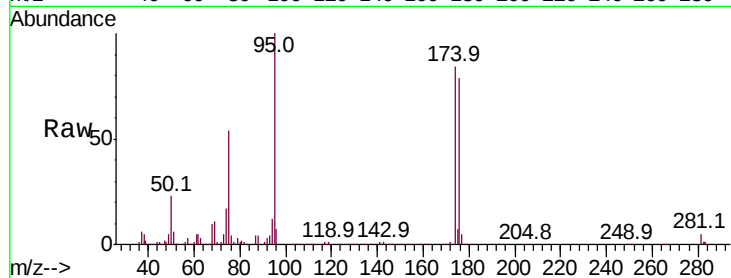
ClientSampleId :

Tot Ion: 75 Resp: 94705

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 143.784 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013015.D

Acq: 15 Sep 2019 02:17

Tgt Ion: 75 Resp: 94705

Ion Ratio Lower Upper

75 100

53 0.1 85.6 128.4#

89 0.0 37.2 55.8#

