

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091519\
 Data File : VW013016.D
 Acq On : 15 Sep 2019 02:43
 Operator : SY/VA
 Sample : K4764-02
 Misc : 5.19G/5ML/MSVOA W/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 16 06:57:47 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	7.94	168	306300	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	477808	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	389614	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	174625	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	172062	60.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.64%	
35) Dibromofluoromethane	7.88	113	139752	53.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.80%	
50) Toluene-d8	10.32	98	570361	56.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.44%	
62) 4-Bromofluorobenzene	12.62	95	181924	49.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.74%	

Target Compounds

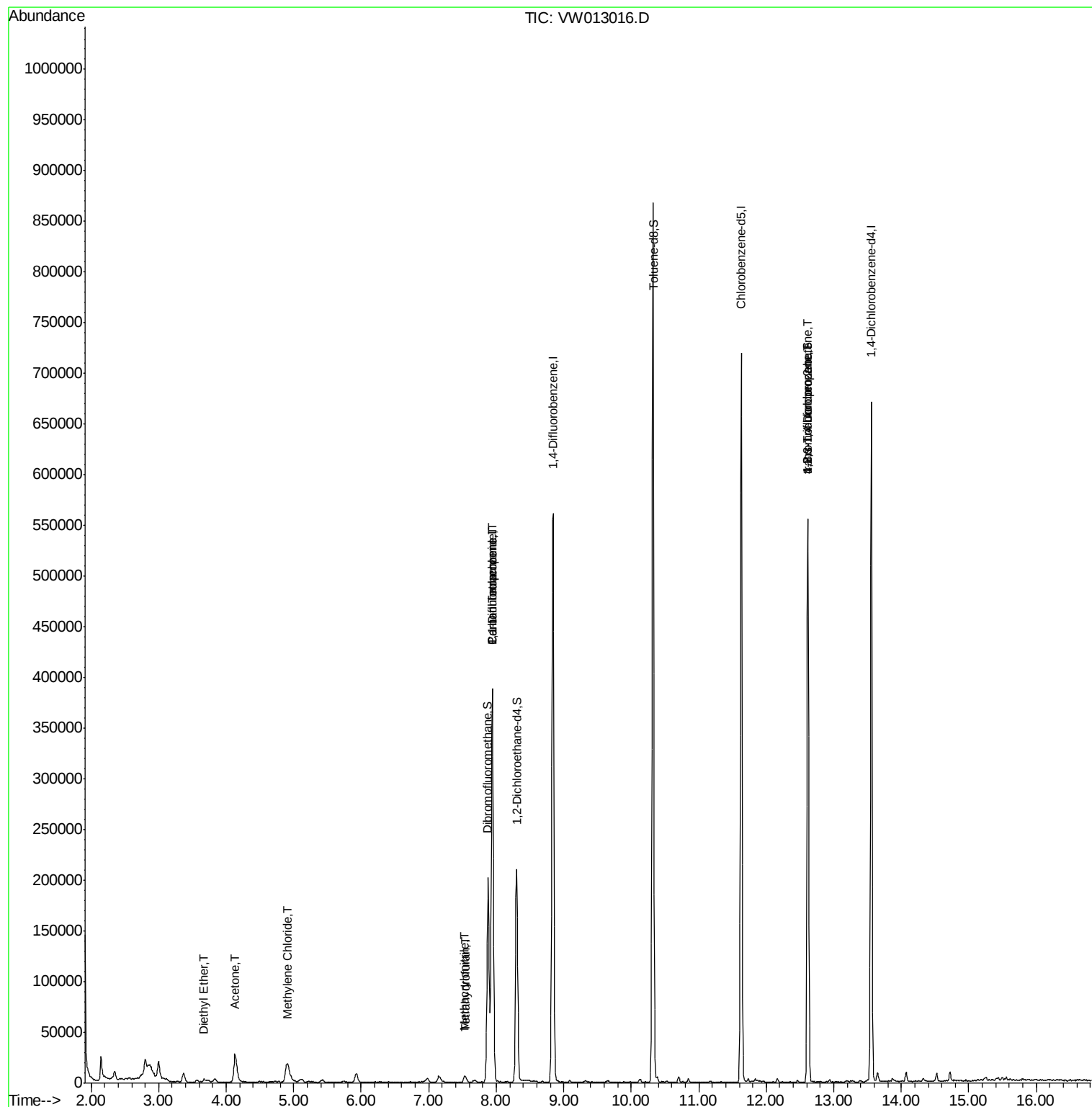
						Qvalue
2) Dichlorodifluoromethane	2.01	85	97	Below Cal	#	44
3) Chloromethane	2.20	50	429	Below Cal	#	85
8) Diethyl Ether	3.67	74	1629	1.361	ug/l	100
11) Tert butyl alcohol	5.18	59	237	Below Cal	#	72
13) Acrolein	3.87	56	26	Below Cal	#	15
16) Acetone	4.14	43	57129	79.757	ug/l	98
20) Methylene Chloride	4.90	84	14423	1.255	ug/l	90
26) 2,2-Dichloropropane	7.15	77	301	Below Cal	#	55
29) Tetrahydrofuran	7.54	42	5705	11.131	ug/l	95
31) Cyclohexane	7.93	56	7095	Below Cal	#	18
36) 1,1-Dichloropropene	7.94	75	22655	5.934	ug/l	# 51
38) Carbon Tetrachloride	7.94	117	29616	7.569	ug/l	# 14
41) Methacrylonitrile	7.53	41	3423	2.565	ug/l	# 55
76) 1,2,3-Trichloropropane	12.62	75	94713	61.921	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.62	75	94713	140.467	ug/l	# 7

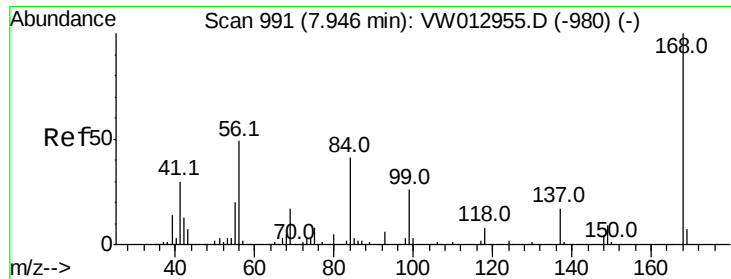
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW013016.D

Acq: 15 Sep 2019 02:43

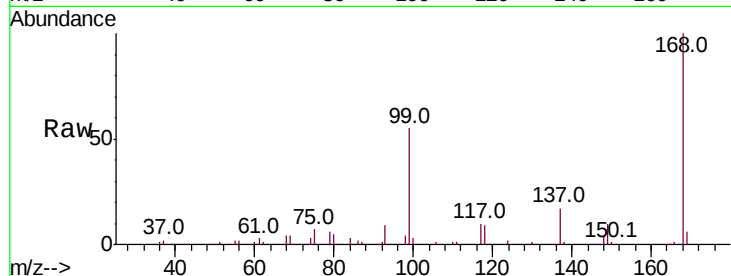
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 306300

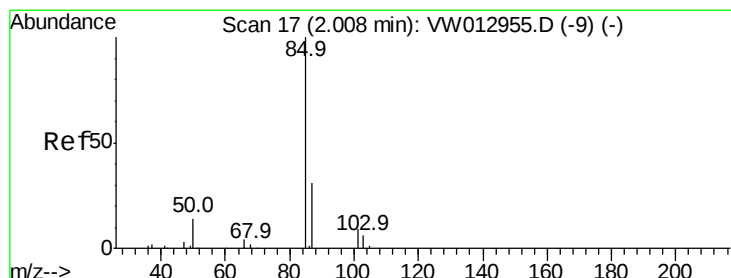
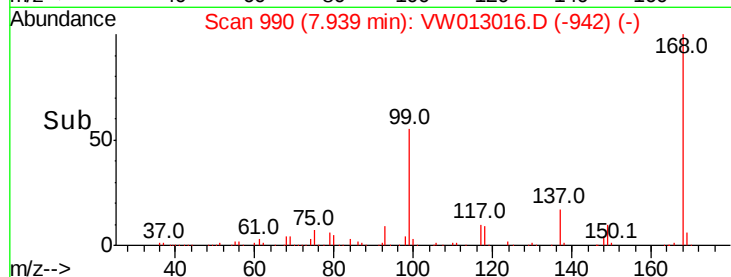
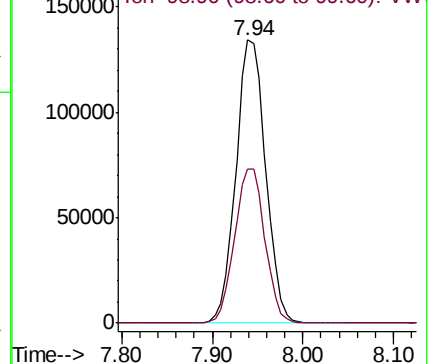
Ion Ratio Lower Upper

168 100

99 54.6 46.2 69.2



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



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW013016.D

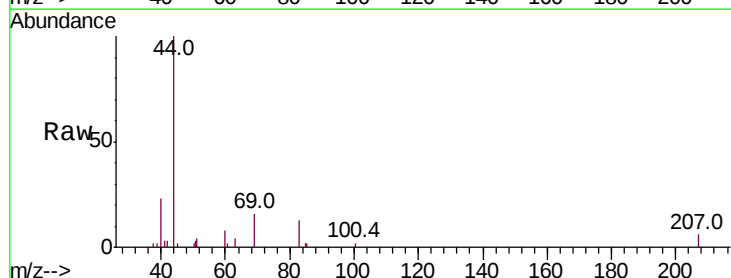
Acq: 15 Sep 2019 02:43

Tgt Ion: 85 Resp: 97

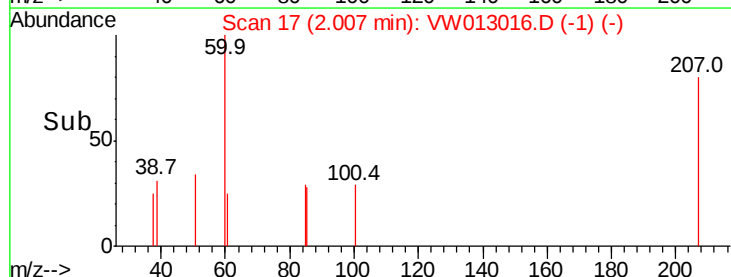
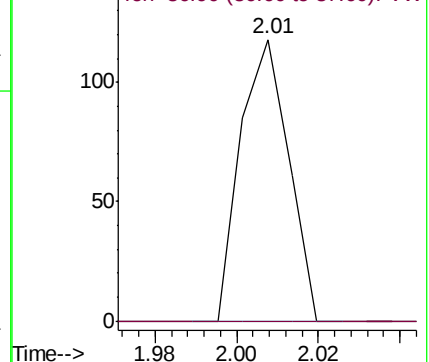
Ion Ratio Lower Upper

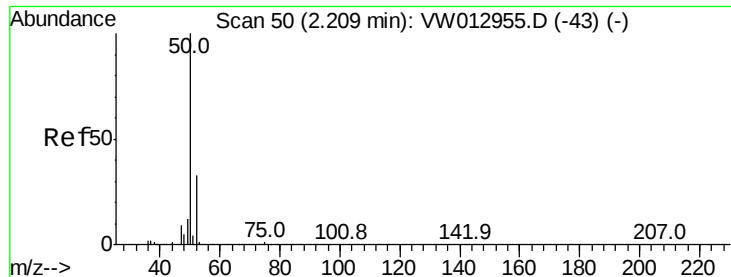
85 100

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





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013016.D

Acq: 15 Sep 2019 02:43

Instrument :

MSVOA_W

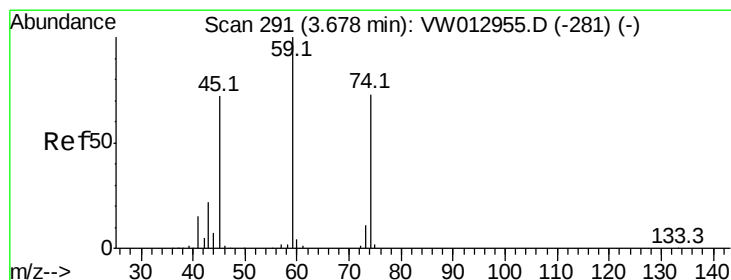
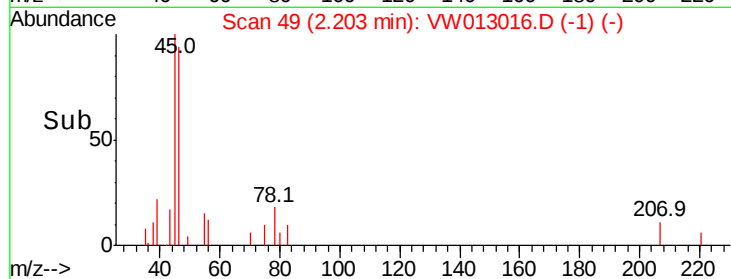
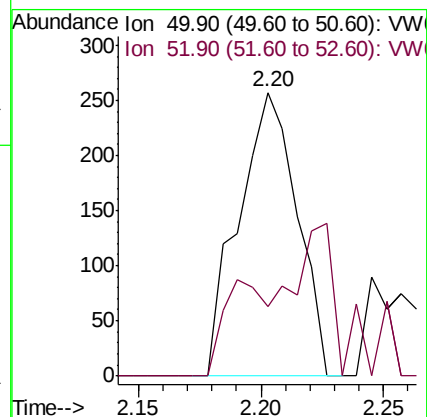
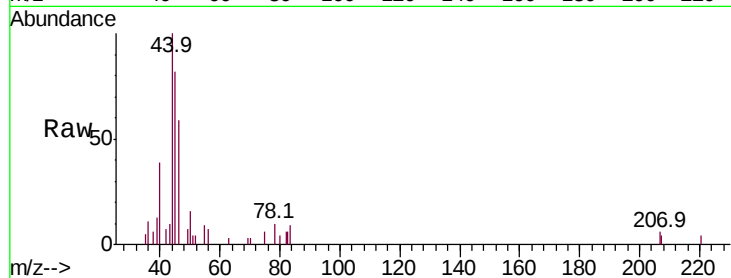
ClientSampleId :

Tot Ion: 50 Resp: 429

Ion Ratio Lower Upper

50 100

52 24.5 26.6 39.8#



#8

Diethyl Ether

Concen: 1.361 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW013016.D

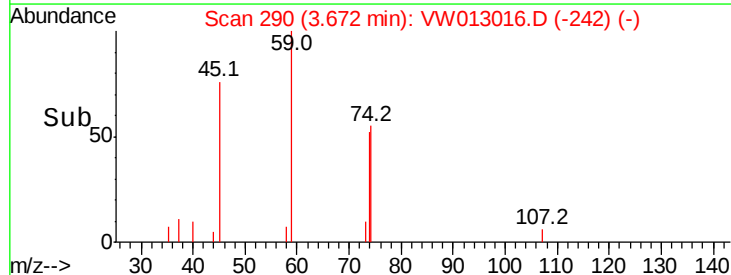
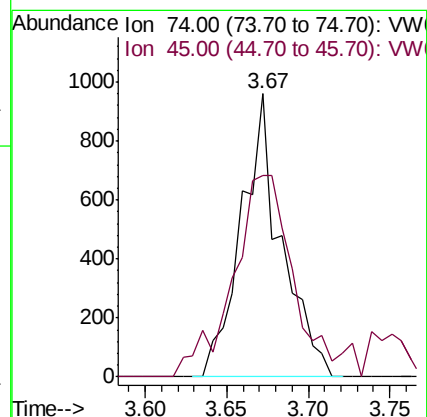
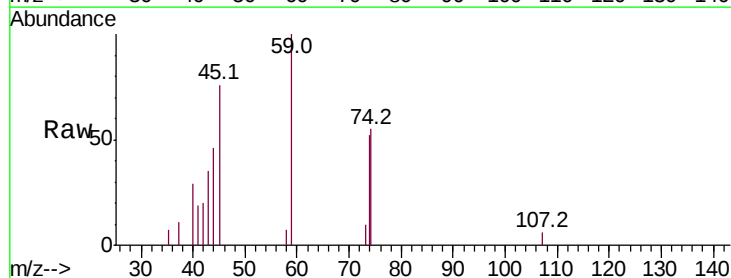
Acq: 15 Sep 2019 02:43

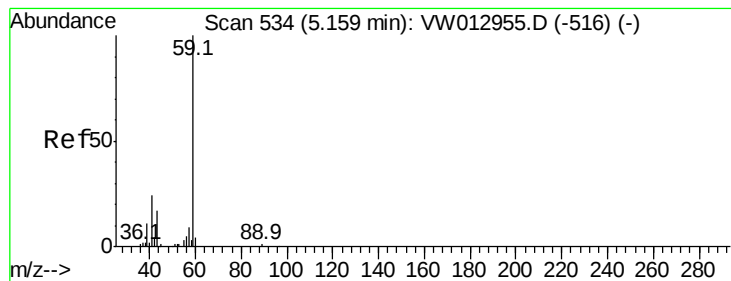
Tgt Ion: 74 Resp: 1629

Ion Ratio Lower Upper

74 100

45 107.8 53.8 161.4



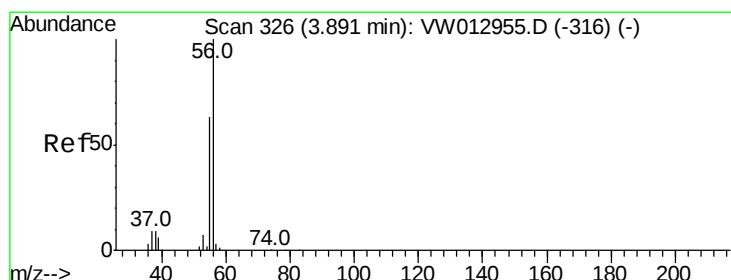
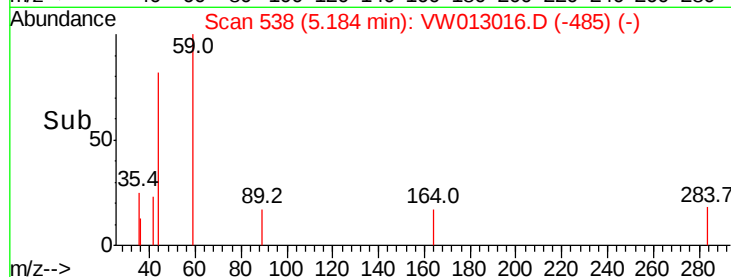
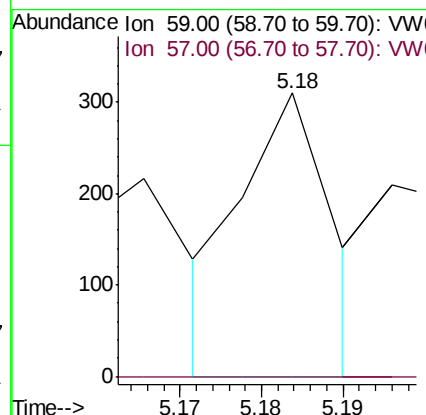
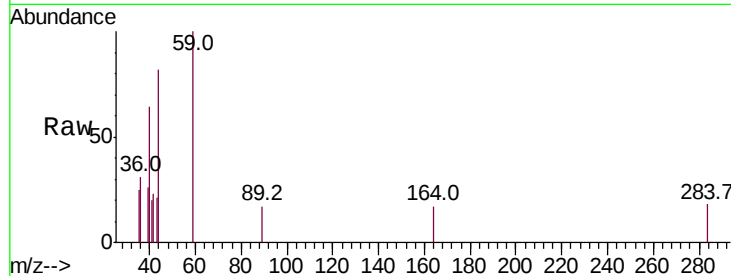


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.18 min Scan# 538
 Delta R.T. 0.02 min
 Lab File: VW013016.D
 Acq: 15 Sep 2019 02:43

Instrument :
 MSVOA_W
 ClientSampled :

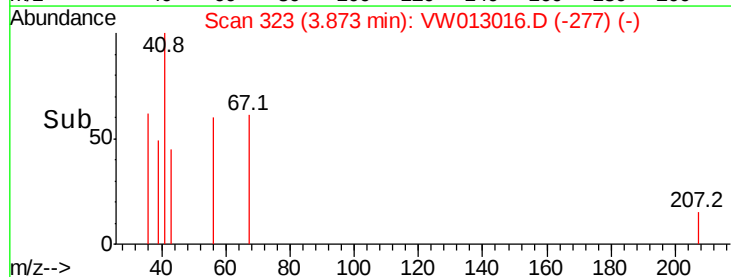
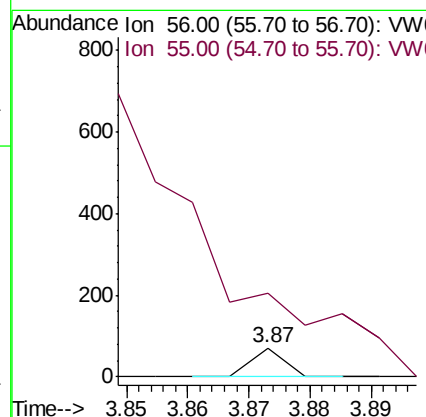
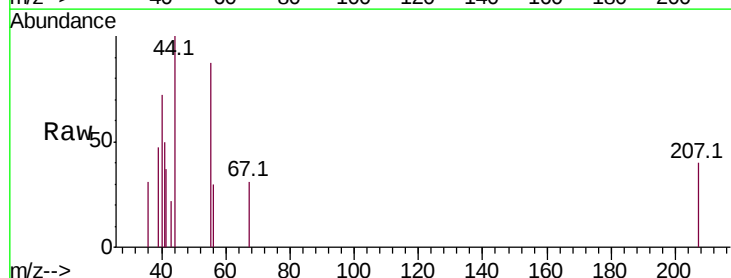
Tot Ion: 59 Resp: 237
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

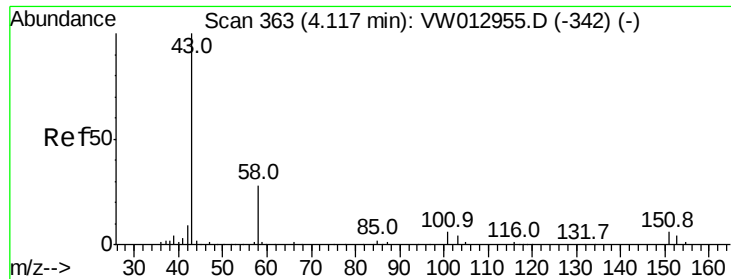


#13

Acrolein
 Concen: Below Cal
 RT: 3.87 min Scan# 323
 Delta R.T. -0.02 min
 Lab File: VW013016.D
 Acq: 15 Sep 2019 02:43

Tgt Ion: 56 Resp: 26
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.8 83.8#





#16

Acetone

Concen: 79.757 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW013016.D

Acq: 15 Sep 2019 02:43

Instrument :

MSVOA_W

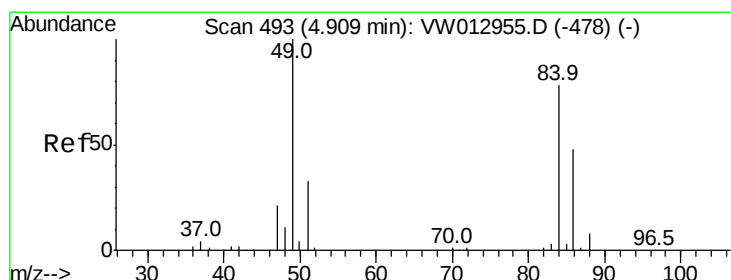
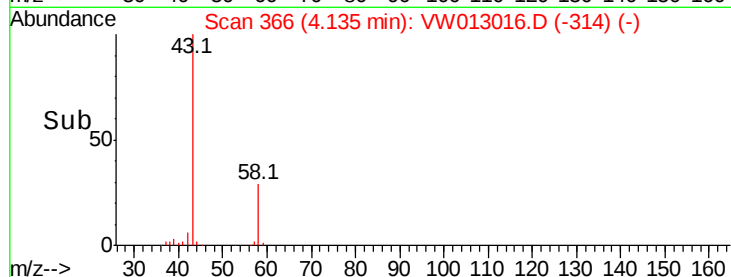
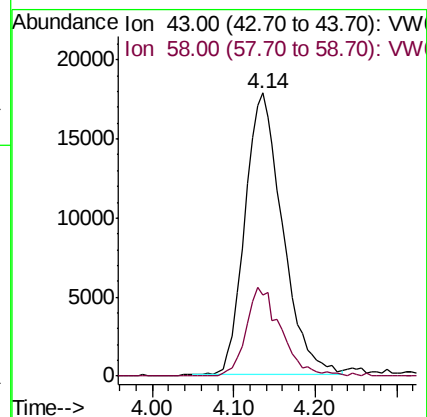
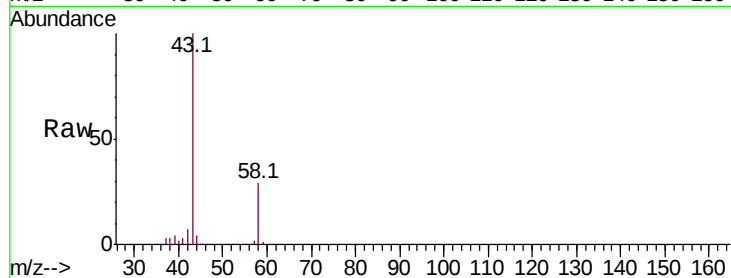
ClientSampleId :

Tot Ion: 43 Resp: 57129

Ion Ratio Lower Upper

43 100

58 28.9 22.3 33.5



#20

Methylene Chloride

Concen: 1.255 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW013016.D

Acq: 15 Sep 2019 02:43

Tgt Ion: 84 Resp: 14423

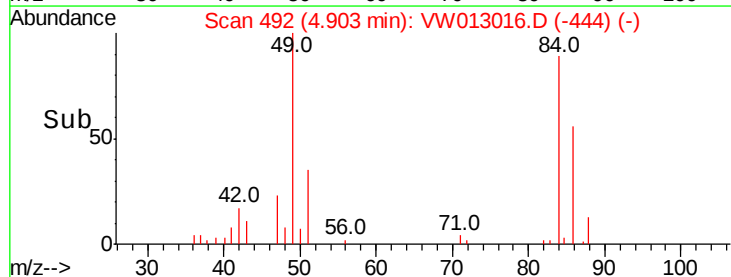
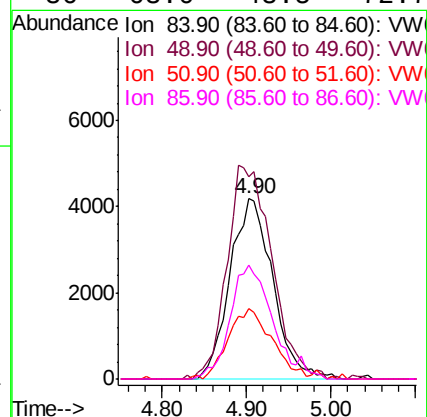
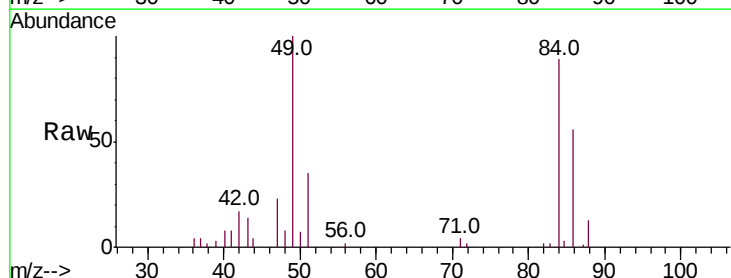
Ion Ratio Lower Upper

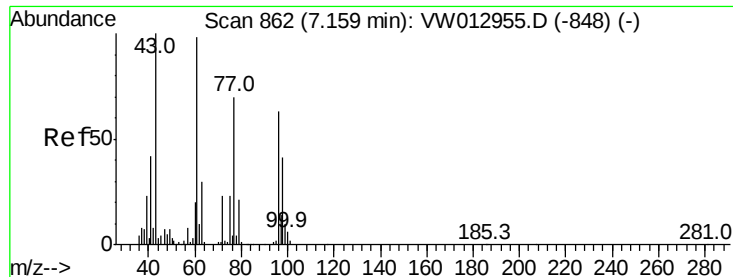
84 100

49 112.1 102.0 153.0

51 37.3 34.0 51.0

86 63.0 48.5 72.7

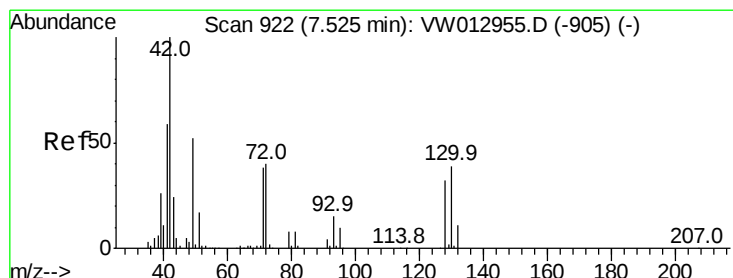
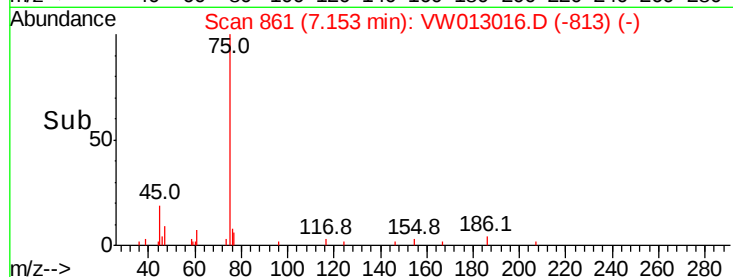
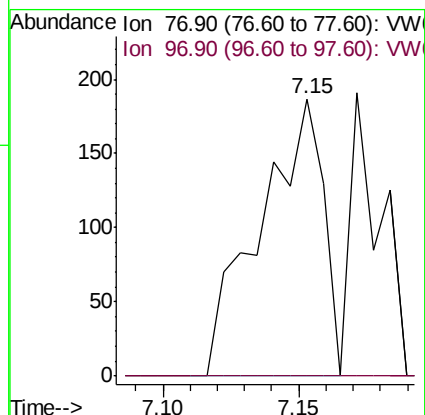
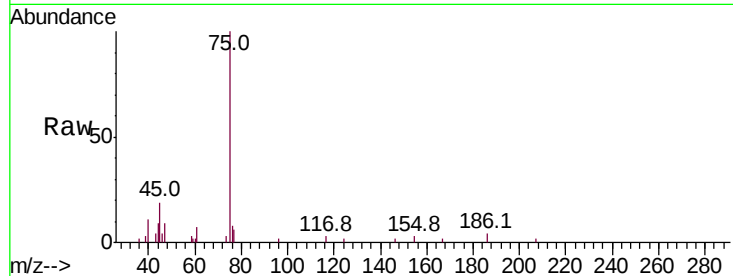




#26
 2,2-Dichloropropane
 Concen: Below Cal
 RT: 7.15 min Scan# 861
 Delta R.T. -0.01 min
 Lab File: VW013016.D
 Acq: 15 Sep 2019 02:43

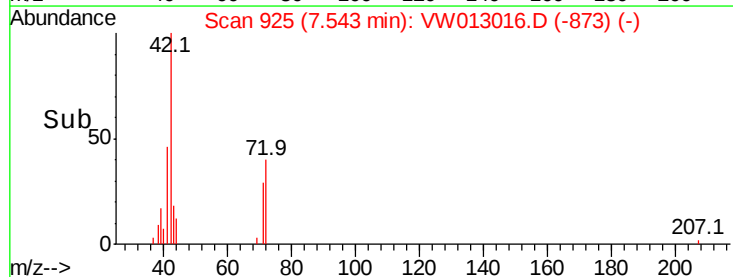
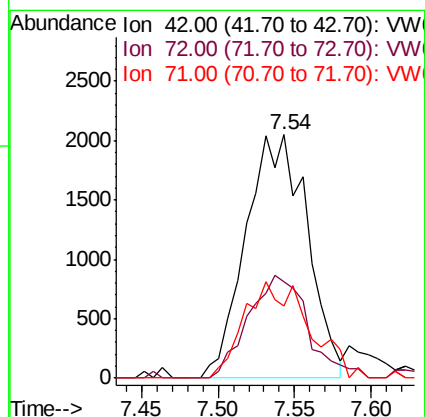
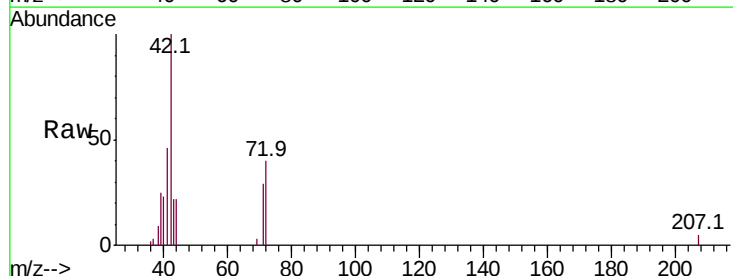
Instrument :
 MSVOA_W
 ClientSampleId :

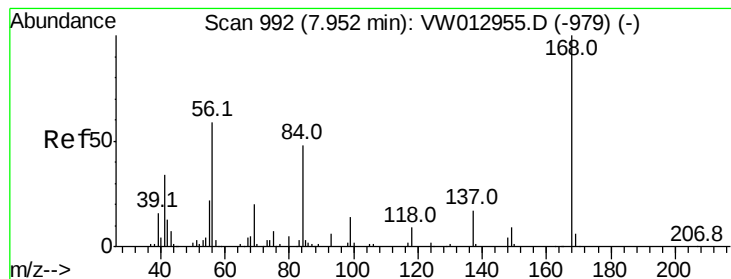
Tot Ion: 77 Resp: 301
 Ion Ratio Lower Upper
 77 100
 97 0.0 10.7 32.1#



#29
 Tetrahydrofuran
 Concen: 11.131 ug/l
 RT: 7.54 min Scan# 925
 Delta R.T. 0.02 min
 Lab File: VW013016.D
 Acq: 15 Sep 2019 02:43

Tgt Ion: 42 Resp: 5705
 Ion Ratio Lower Upper
 42 100
 72 40.8 31.4 47.0
 71 41.5 29.8 44.8





#31

Cyclohexane

Concen: Below Cal

RT: 7.93 min Scan# 989

Delta R.T. -0.02 min

Lab File: VW013016.D

Acq: 15 Sep 2019 02:43

Instrument :

MSVOA_W

ClientSampled :

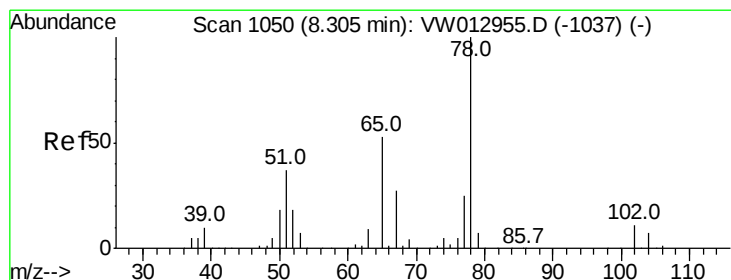
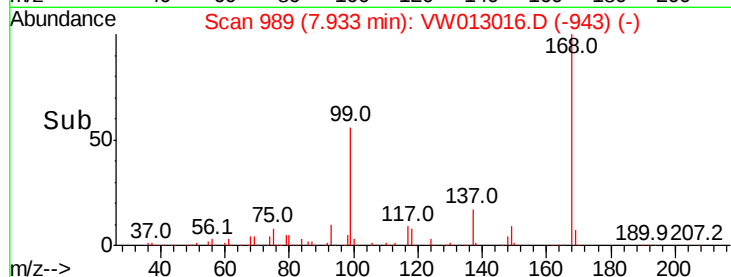
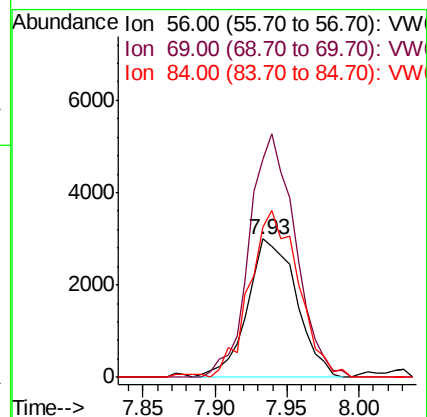
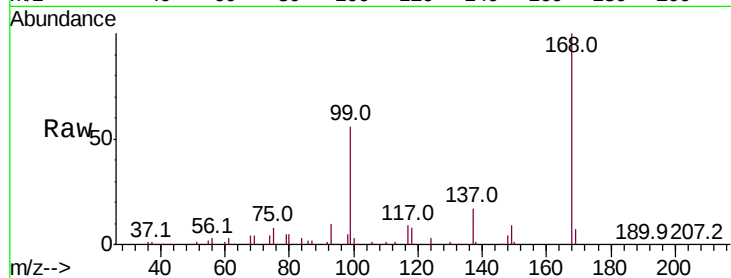
Tot Ion: 56 Resp: 7095

Ion Ratio Lower Upper

56 100

69 157.4 27.0 40.6#

84 106.9 66.2 99.2#



#33

1,2-Dichloroethane-d4

Concen: 60.823 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW013016.D

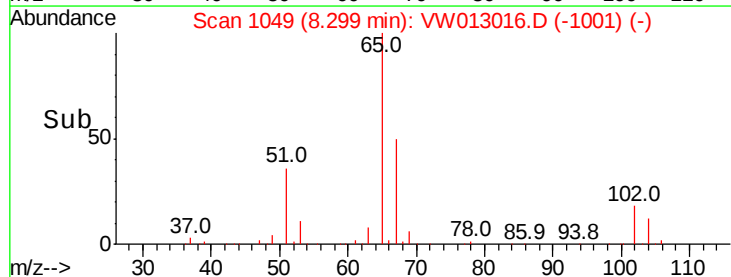
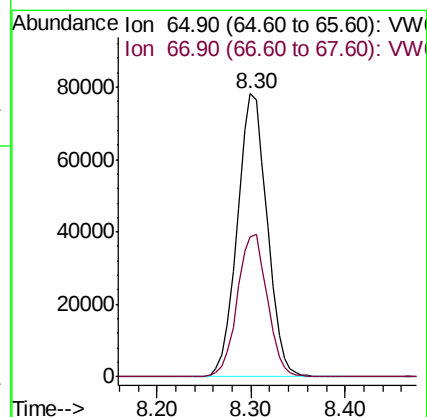
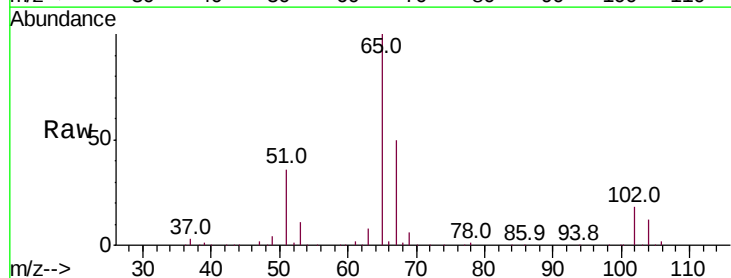
Acq: 15 Sep 2019 02:43

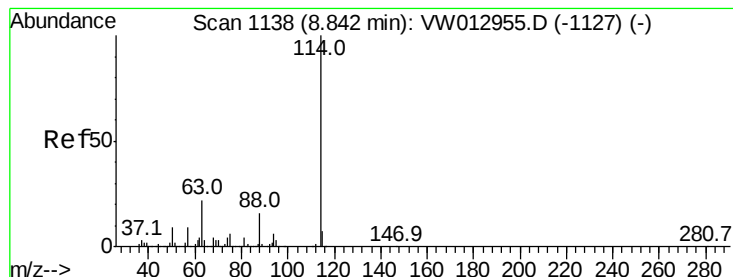
Tgt Ion: 65 Resp: 172062

Ion Ratio Lower Upper

65 100

67 50.8 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: VW013016.D

Acq: 15 Sep 2019 02:43

Instrument :

MSVOA_W

ClientSampleId :

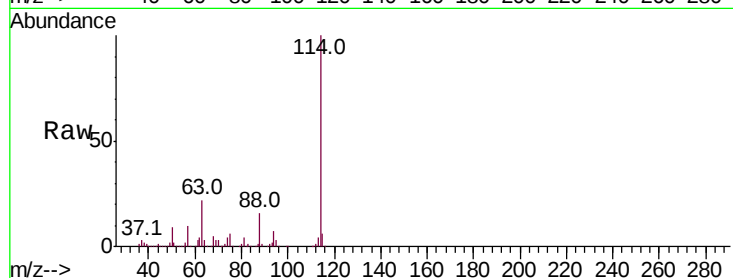
Tot Ion:114 Resp: 477808

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.4

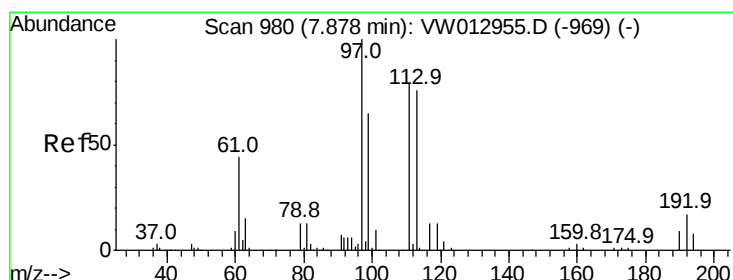
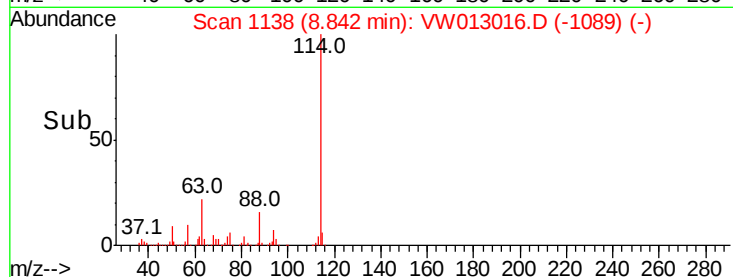
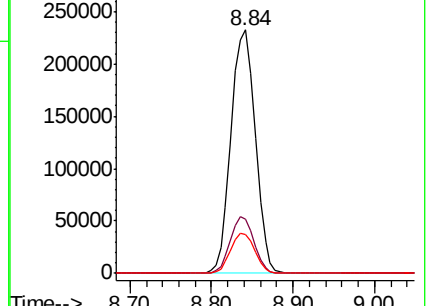
88 15.7 0.0 31.6



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: 53.903 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW013016.D

Acq: 15 Sep 2019 02:43

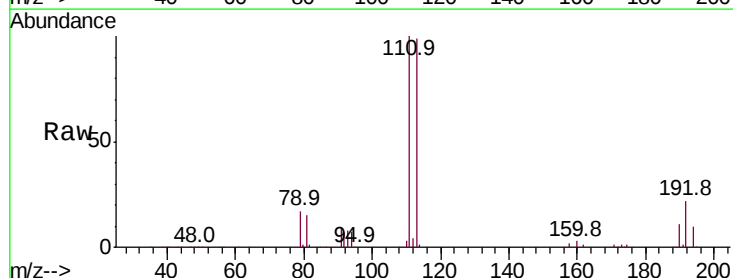
Tgt Ion:113 Resp: 139752

Ion Ratio Lower Upper

113 100

111 103.2 82.8 124.2

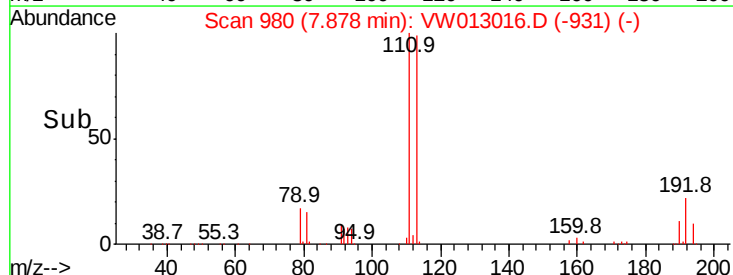
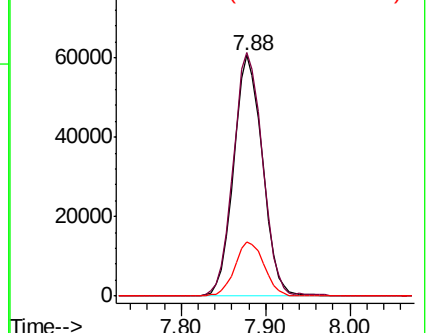
192 22.9 17.8 26.8

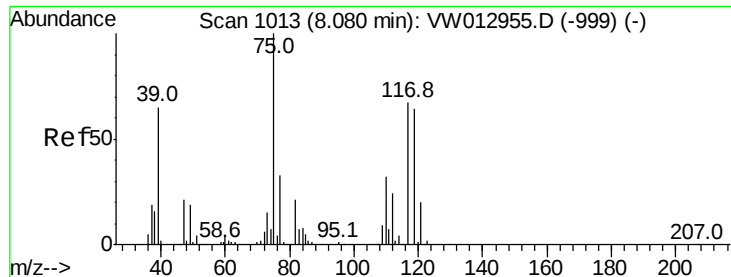


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.934 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW013016.D

Acq: 15 Sep 2019 02:43

Instrument :
MSVOA_W
ClientSampled :

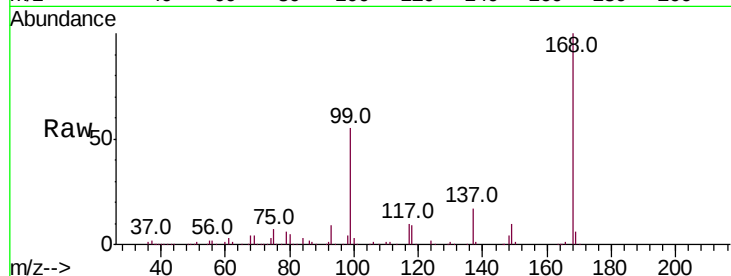
Tot Ion: 75 Resp: 22655

Ion Ratio Lower Upper

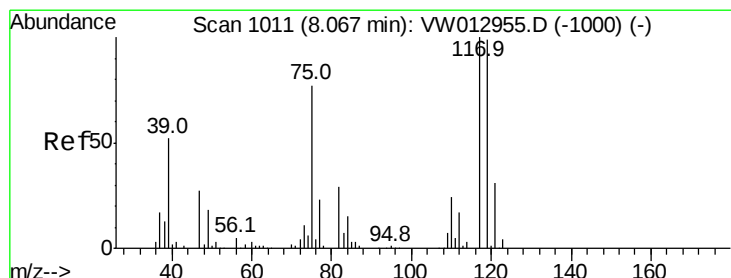
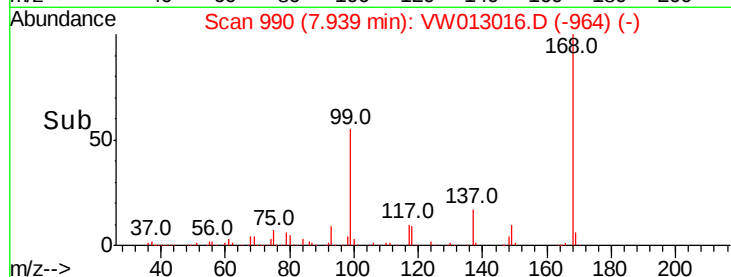
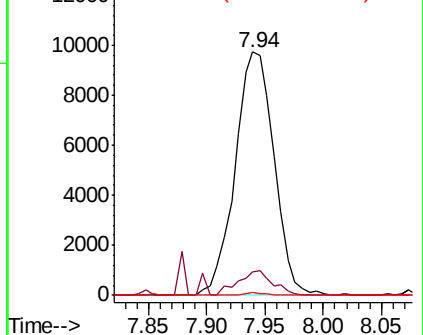
75 100

110 9.0 16.4 49.1#

77 0.5 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: 7.569 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW013016.D

Acq: 15 Sep 2019 02:43

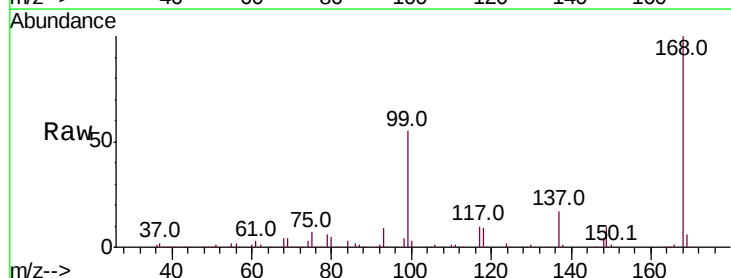
Tgt Ion: 117 Resp: 29616

Ion Ratio Lower Upper

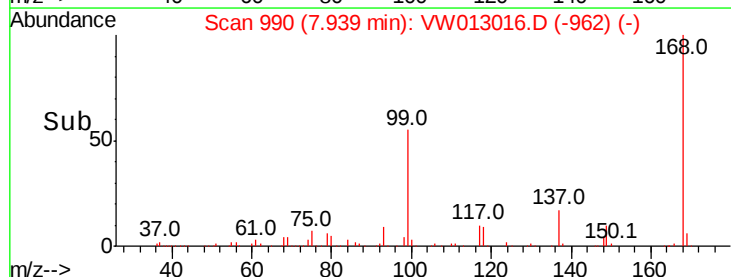
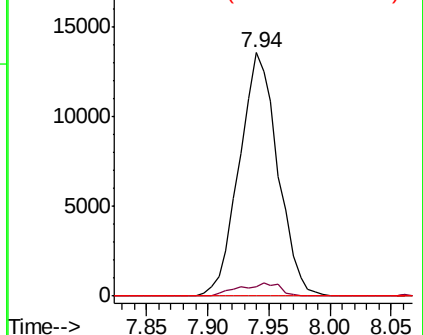
117 100

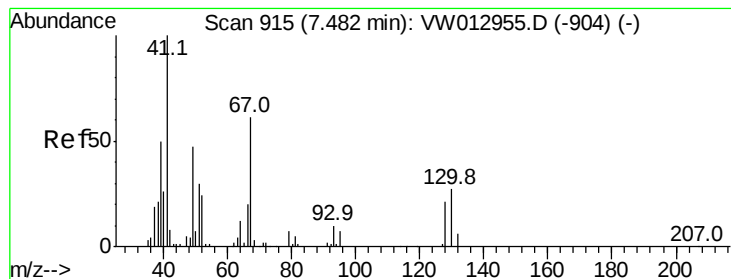
119 4.0 79.4 119.0#

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: 2.565 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.05 min

Lab File: VW013016.D

Acq: 15 Sep 2019 02:43

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 41 Resp: 3423

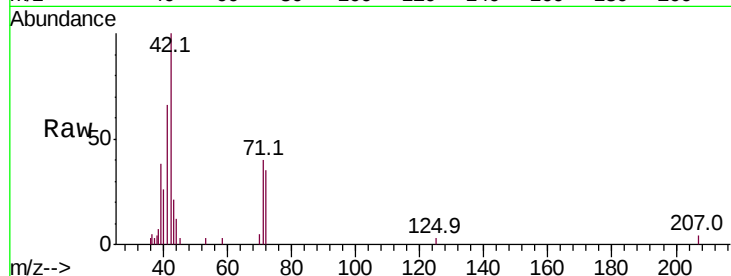
Ion Ratio Lower Upper

41 100

39 53.1 48.2 72.4

67 0.0 47.5 71.3#

52 0.0 21.0 31.4#

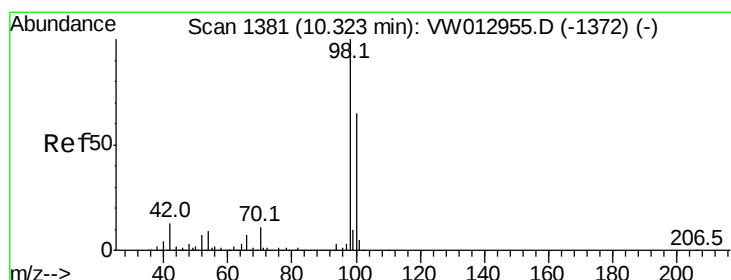
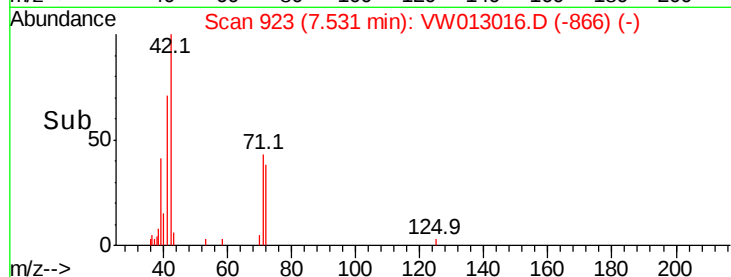
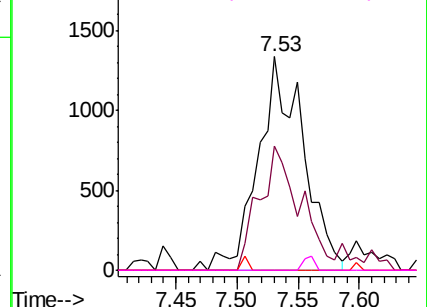


Abundance Ion 41.00 (40.70 to 41.70): VW

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: 56.219 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013016.D

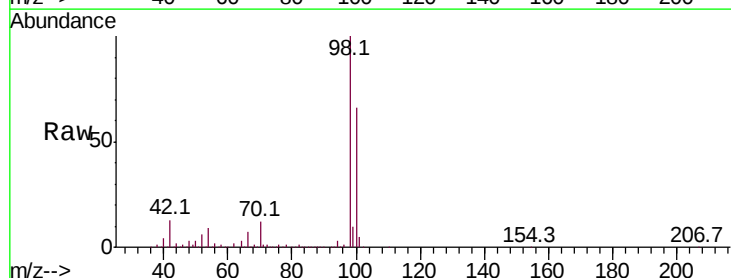
Acq: 15 Sep 2019 02:43

Tgt Ion: 98 Resp: 570361

Ion Ratio Lower Upper

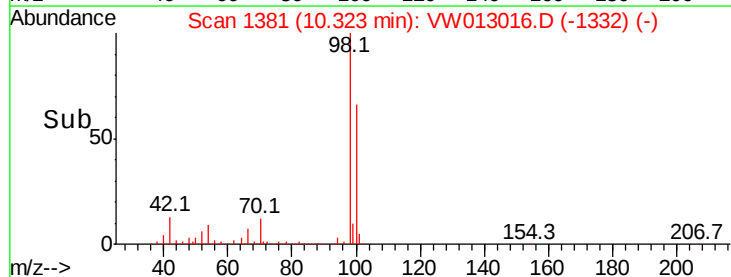
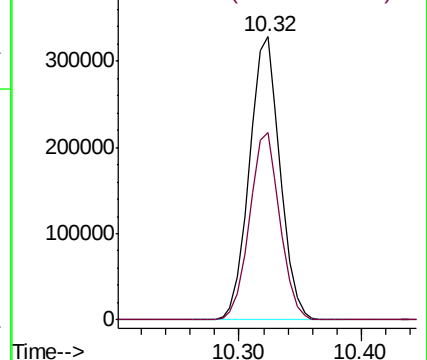
98 100

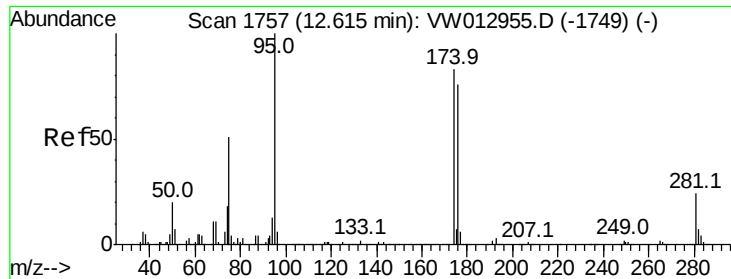
100 65.6 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

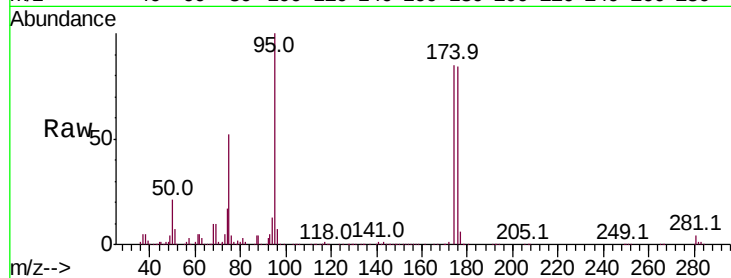




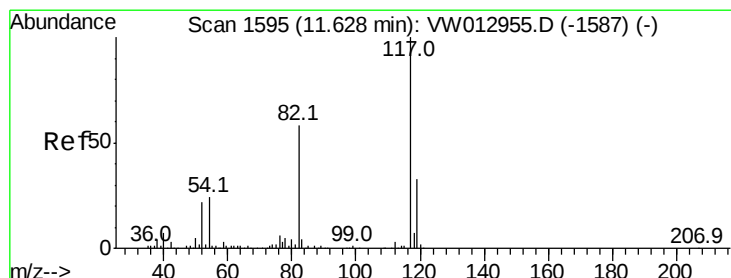
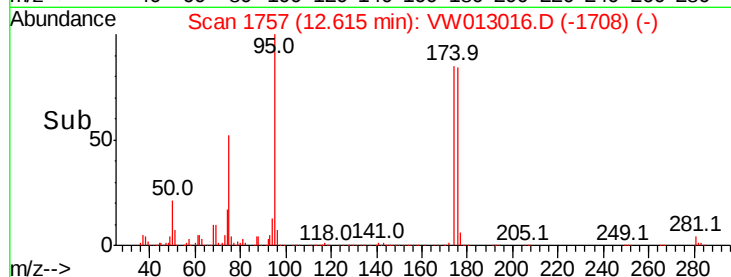
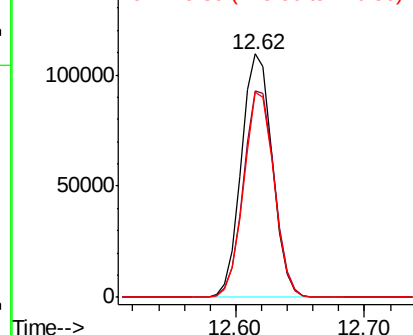
#62
4-Bromofluorobenzene
Concen: 49.869 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013016.D
Acq: 15 Sep 2019 02:43

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 95 Resp: 181924
Ion Ratio Lower Upper
95 100
174 84.8 0.0 170.4
176 82.4 0.0 164.6

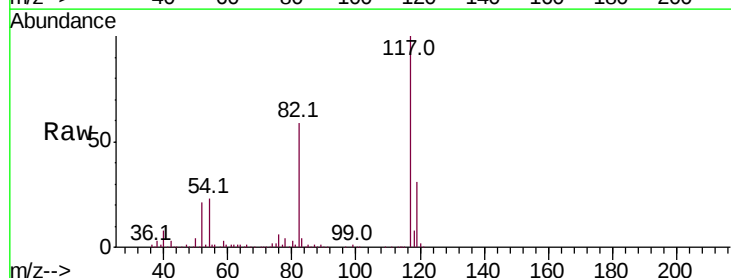


Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW

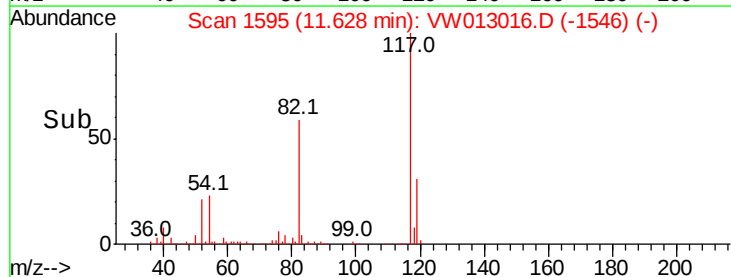
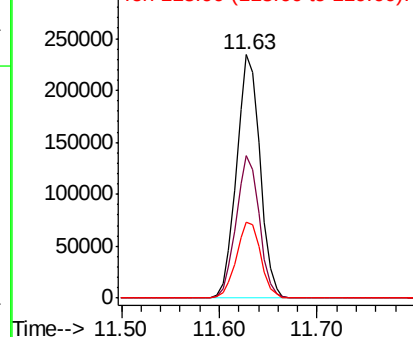


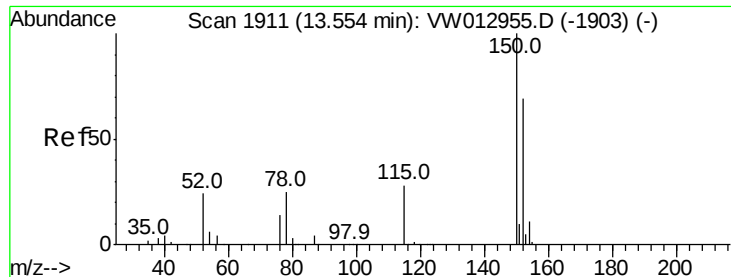
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013016.D
Acq: 15 Sep 2019 02:43

Tgt Ion: 117 Resp: 389614
Ion Ratio Lower Upper
117 100
82 58.6 46.3 69.5
119 31.1 26.2 39.4



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.01 min

Lab File: VW013016.D

Acq: 15 Sep 2019 02:43

Instrument :

MSVOA_W

ClientSampleId :

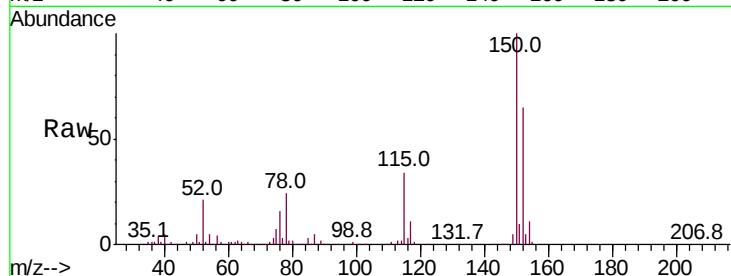
Tot Ion:152 Resp: 174625

Ion Ratio Lower Upper

152 100

115 57.2 28.8 86.4

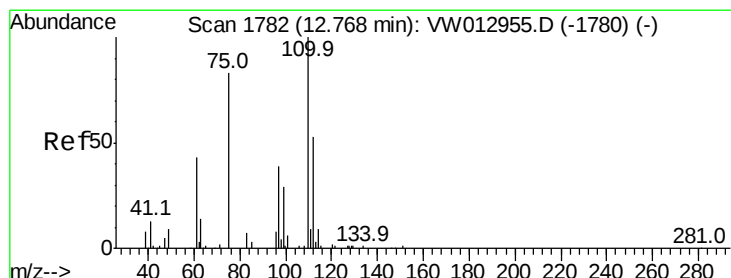
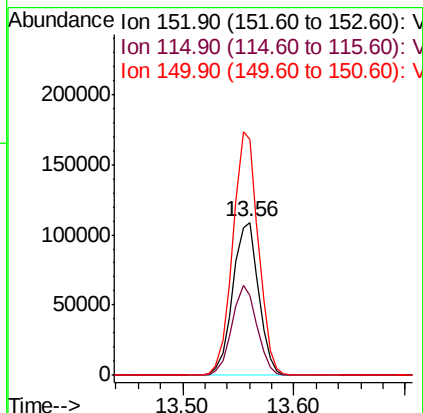
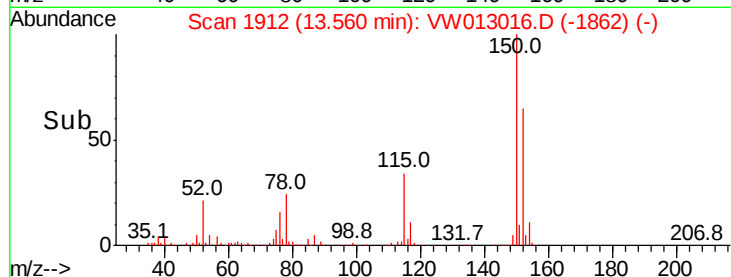
150 157.1 0.0 340.2



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: 61.921 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013016.D

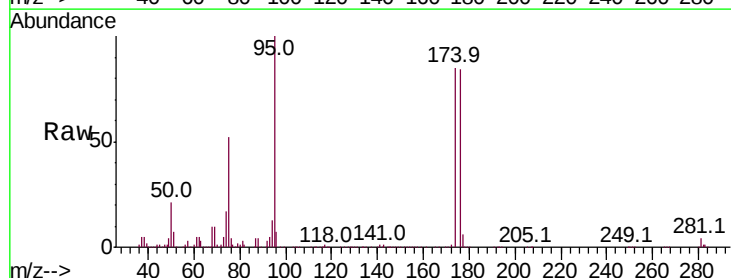
Acq: 15 Sep 2019 02:43

Tgt Ion: 75 Resp: 94713

Ion Ratio Lower Upper

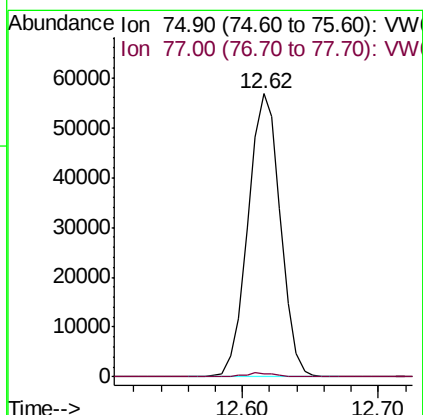
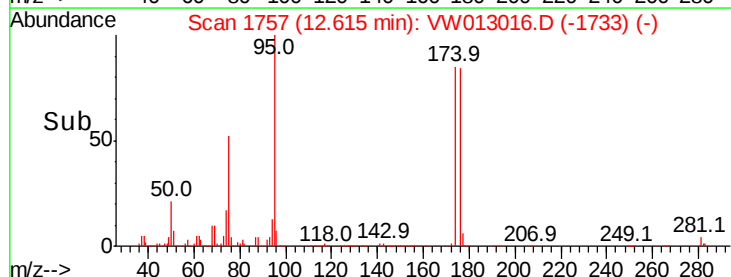
75 100

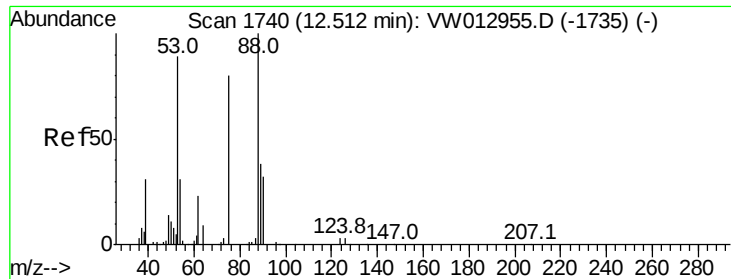
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 140.467 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013016.D

Acq: 15 Sep 2019 02:43

Instrument :

MSVOA_W

ClientSampleId :

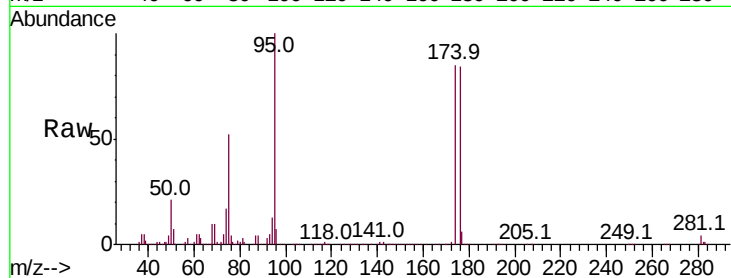
Tot Ion: 75 Resp: 94713

Ion Ratio Lower Upper

75 100

53 0.1 85.6 128.4#

89 0.1 37.2 55.8#



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

