

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091519\
 Data File : VW013004.D
 Acq On : 14 Sep 2019 19:48
 Operator : SY/VA
 Sample : K4822-07
 Misc : 5.14G/5ML/MSVOA W/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 16 06:54:49 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	303611	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	453715	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	376184	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	173272	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	160764	57.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.66%	
35) Dibromofluoromethane	7.88	113	132268	53.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.46%	
50) Toluene-d8	10.32	98	485809	50.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.86%	
62) 4-Bromofluorobenzene	12.62	95	178092	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	

Target Compounds

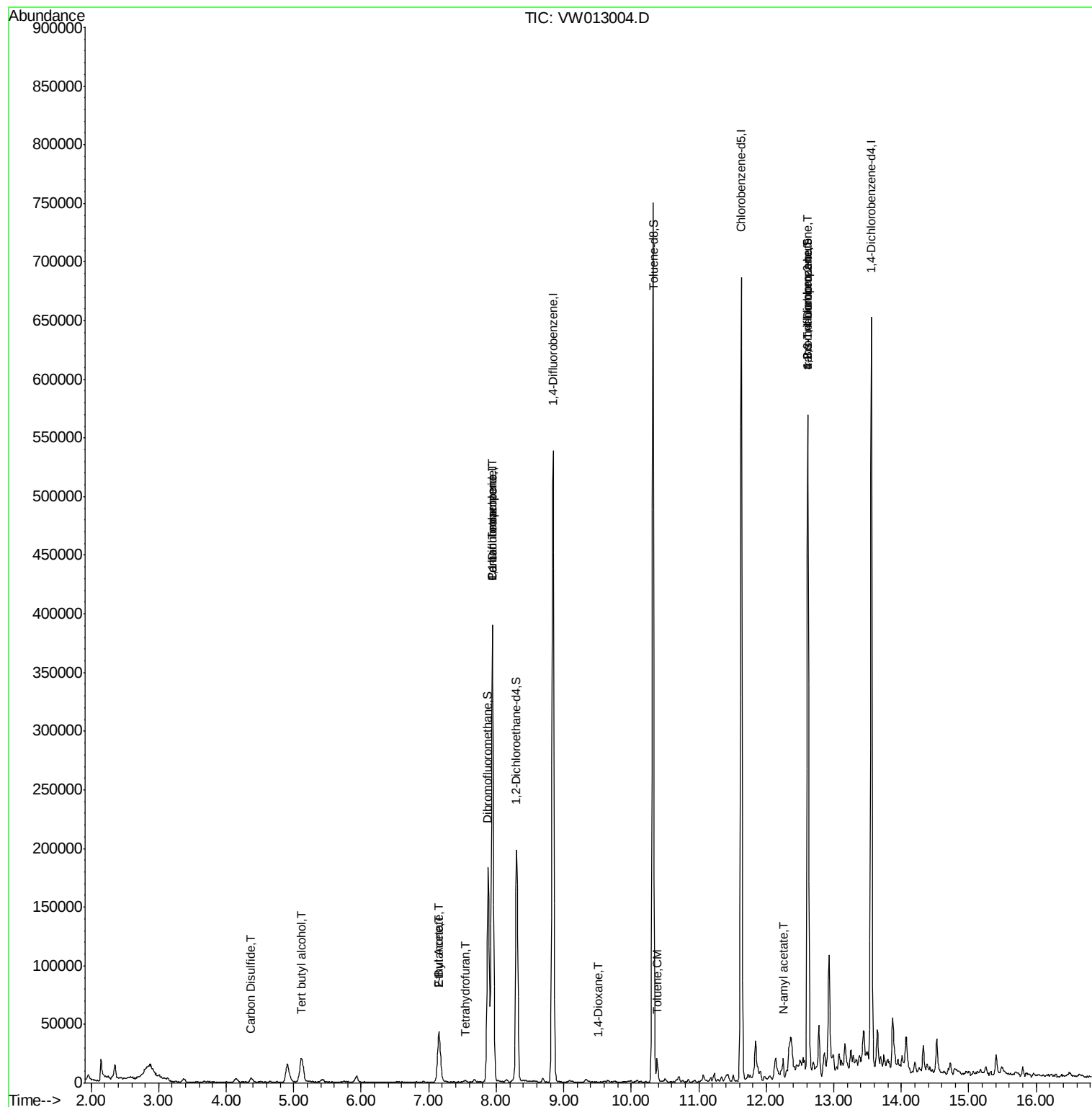
					Qvalue	
2) Dichlorodifluoromethane	2.02	85	111	Below Cal	#	44
3) Chloromethane	2.20	50	358	Below Cal	#	41
11) Tert butyl alcohol	5.12	59	20457	94.775	ug/l #	74
16) Acetone	4.14	43	6335	Below Cal		93
17) Carbon Disulfide	4.36	76	7632	1.827	ug/l	100
25) 2-Butanone	7.16	43	2894	3.246	ug/l #	81
26) 2,2-Dichloropropane	7.15	77	3268	Below Cal	#	55
29) Tetrahydrofuran	7.54	42	1289	2.537	ug/l	94
31) Cyclohexane	7.94	56	6621	Below Cal	#	1
36) 1,1-Dichloropropene	7.95	75	23271	6.419	ug/l #	50
37) Ethyl Acetate	7.16	43	2894	1.504	ug/l #	1
38) Carbon Tetrachloride	7.94	117	29447	7.926	ug/l #	13
49) 1,4-Dioxane	9.51	88	46	2.131	ug/l #	1
52) Toluene	10.39	92	7876	1.225	ug/l	97
74) N-amyl acetate	12.25	43	4192	1.419	ug/l #	55
76) 1,2,3-Trichloropropane	12.62	75	92190	60.742	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	92190	137.792	ug/l #	7

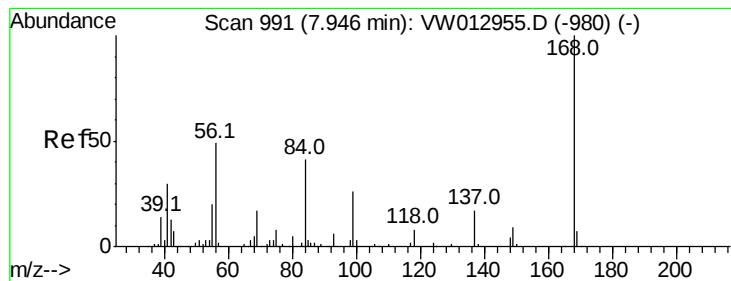
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013004.D

Acq: 14 Sep 2019 19:48

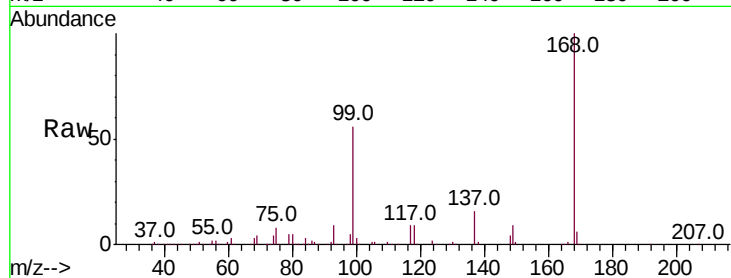
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 303611

Ion Ratio Lower Upper

168 100

99 55.7 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

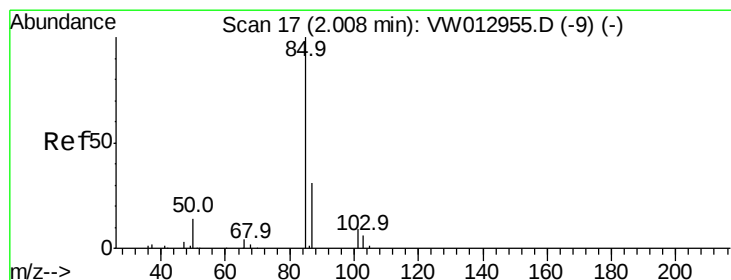
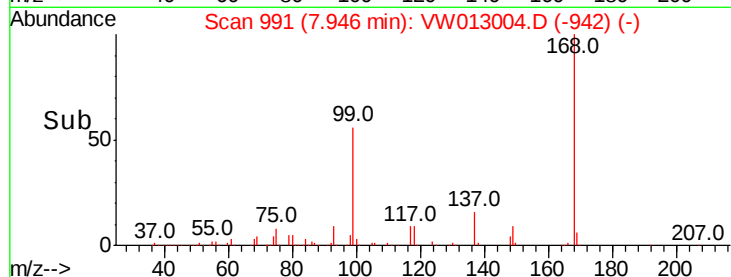
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.02 min Scan# 19

Delta R.T. 0.01 min

Lab File: VW013004.D

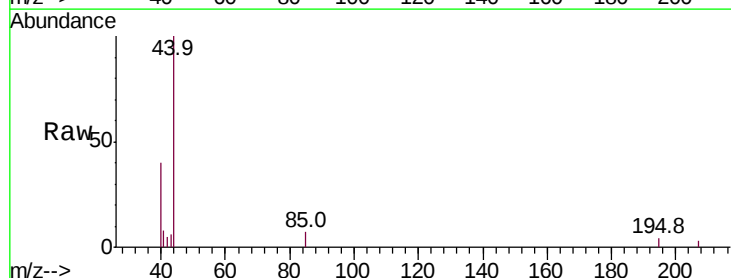
Acq: 14 Sep 2019 19:48

Tgt Ion: 85 Resp: 111

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

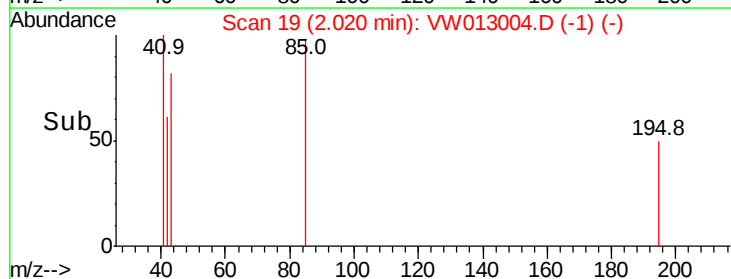
2.02

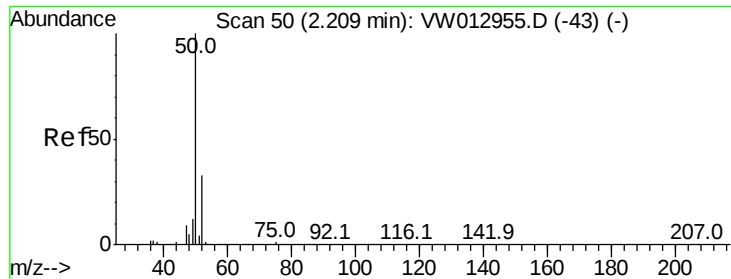
100

50

0

Time--> 2.00 2.02 2.04





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013004.D

Acq: 14 Sep 2019 19:48

Instrument :

MSVOA_W

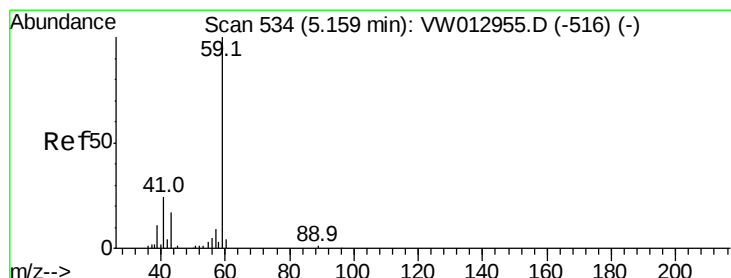
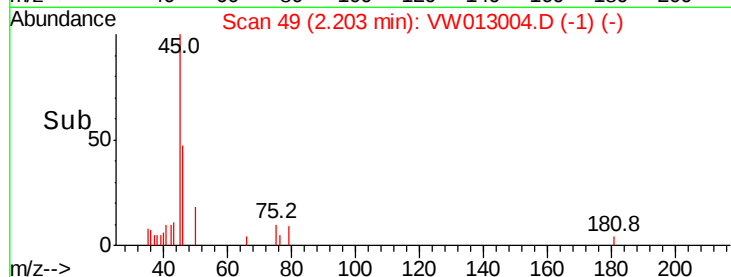
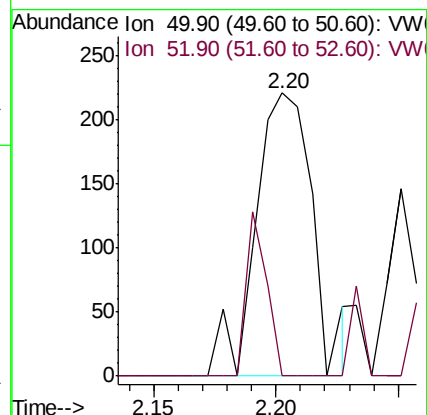
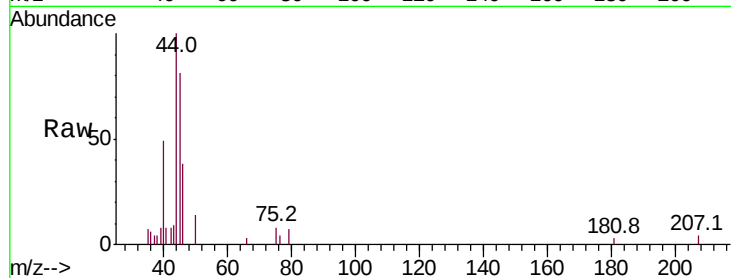
ClientSampleId :

Tot Ion: 50 Resp: 358

Ion Ratio Lower Upper

50 100

52 0.0 26.6 39.8#



#11

Tert butyl alcohol

Concen: 94.775 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.04 min

Lab File: VW013004.D

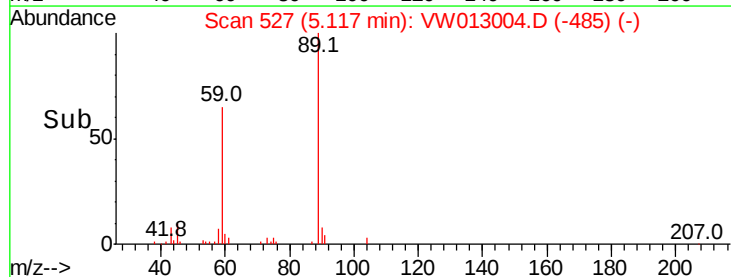
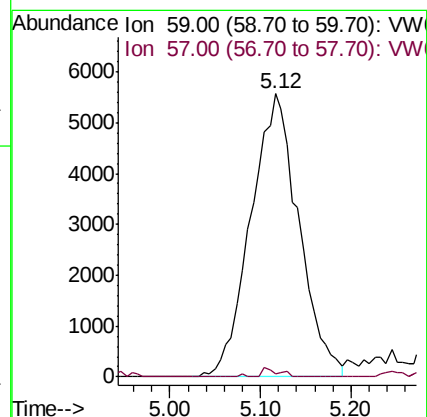
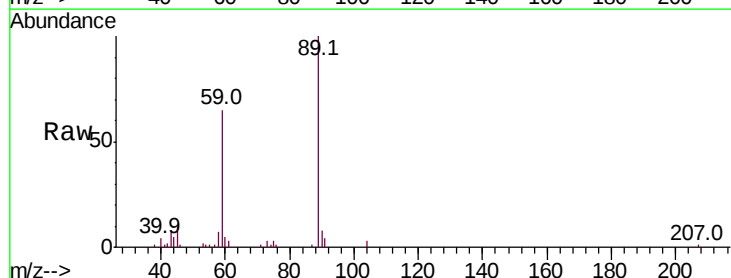
Acq: 14 Sep 2019 19:48

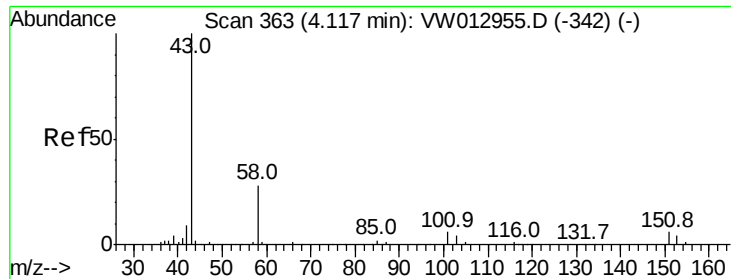
Tgt Ion: 59 Resp: 20457

Ion Ratio Lower Upper

59 100

57 1.0 8.5 12.7#





#16

Acetone

Concen: Below Cal

RT: 4.14 min Scan# 367

Delta R.T. 0.03 min

Lab File: VW013004.D

Acq: 14 Sep 2019 19:48

Instrument :

MSVOA_W

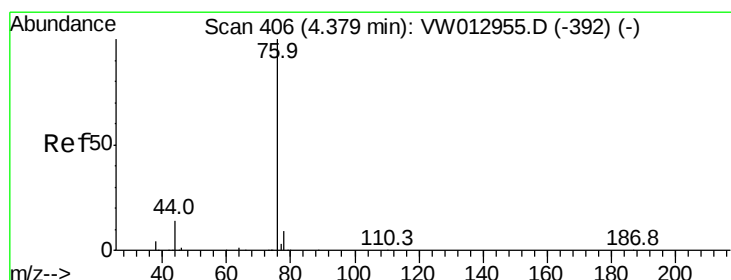
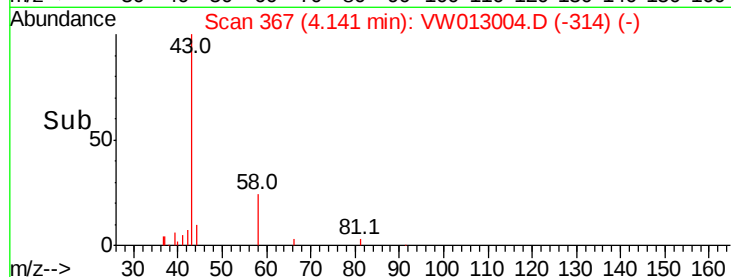
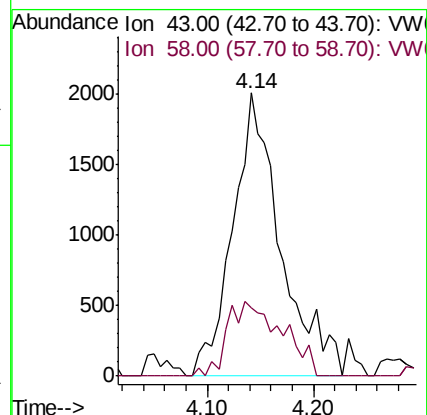
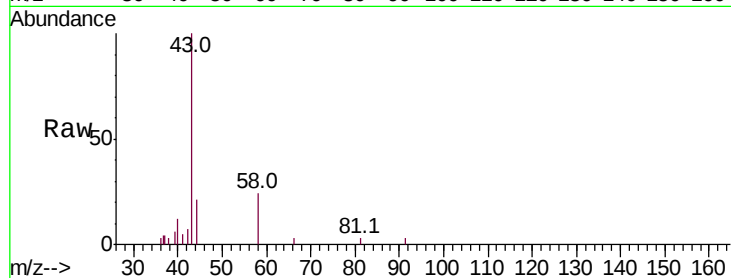
ClientSampled :

Tot Ion: 43 Resp: 6335

Ion Ratio Lower Upper

43 100

58 24.1 22.3 33.5



#17

Carbon Disulfide

Concen: 1.827 ug/l

RT: 4.36 min Scan# 403

Delta R.T. -0.02 min

Lab File: VW013004.D

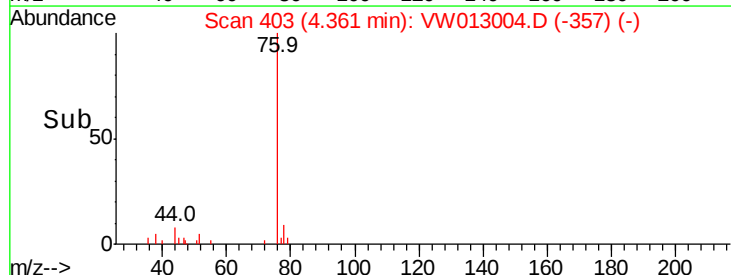
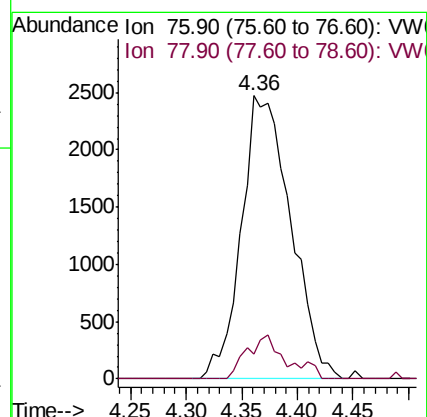
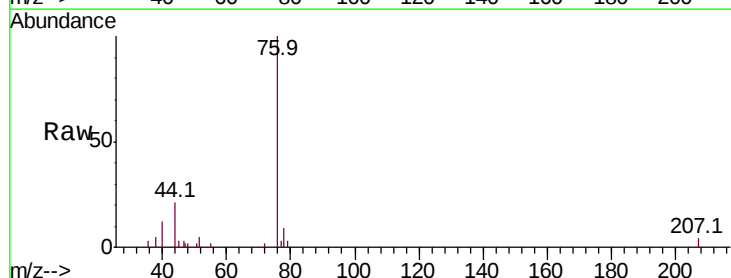
Acq: 14 Sep 2019 19:48

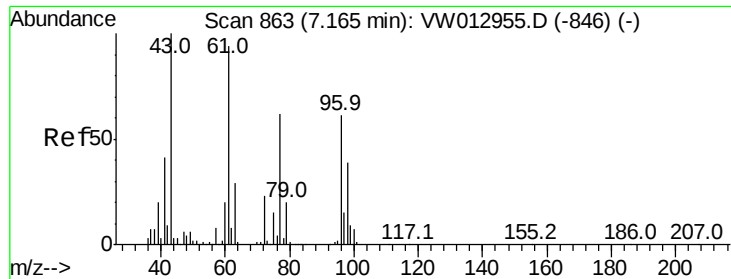
Tgt Ion: 76 Resp: 7632

Ion Ratio Lower Upper

76 100

78 8.6 7.0 10.4





#25

2-Butanone

Concen: 3.246 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW013004.D

Acq: 14 Sep 2019 19:48

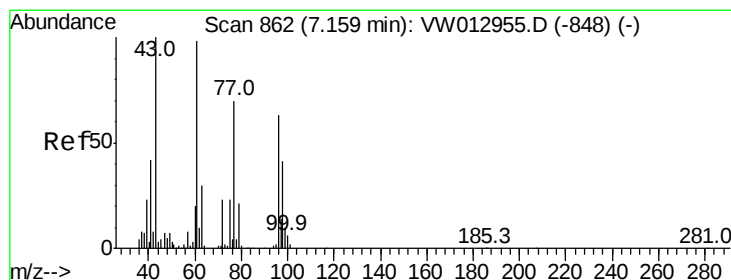
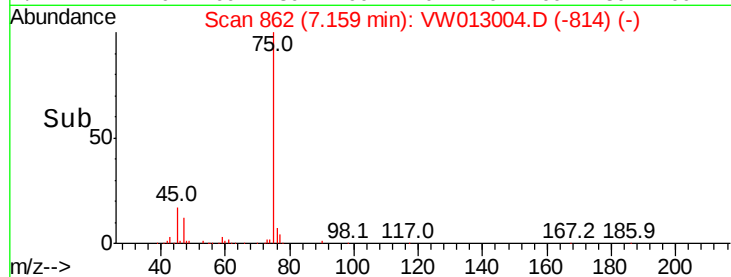
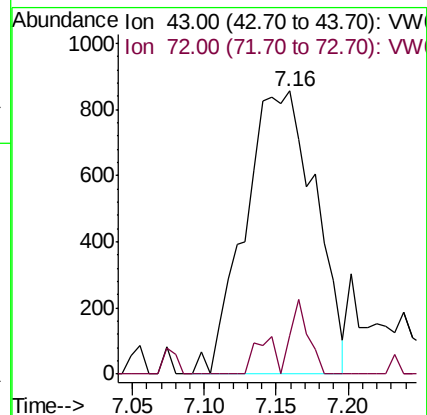
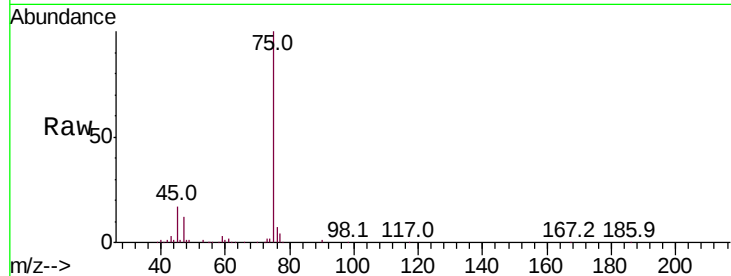
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 2894

Ion Ratio Lower Upper

43 100

72 13.7 18.2 27.4#



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW013004.D

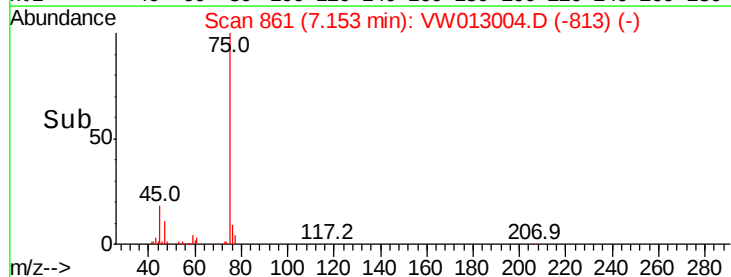
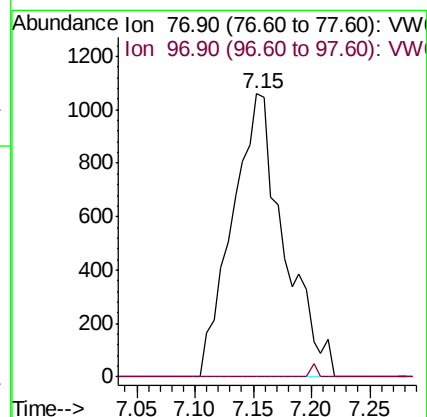
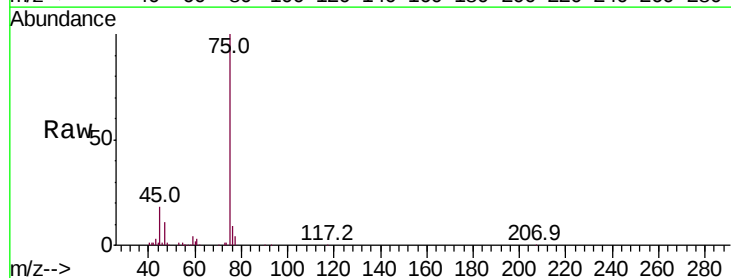
Acq: 14 Sep 2019 19:48

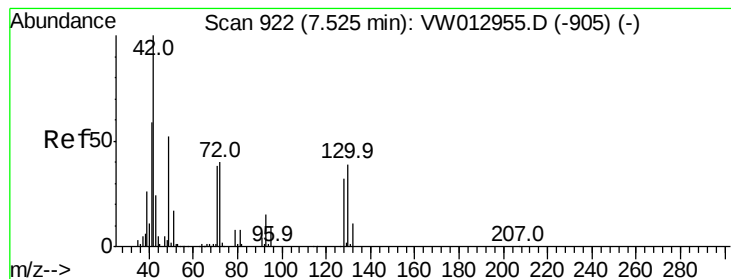
Tgt Ion: 77 Resp: 3268

Ion Ratio Lower Upper

77 100

97 0.0 10.7 32.1#





#29

Tetrahydrofuran

Concen: 2.537 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW013004.D

Acq: 14 Sep 2019 19:48

Instrument :
MSVOA_W
ClientSampled :

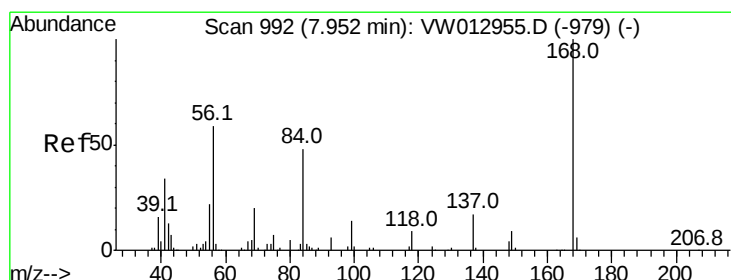
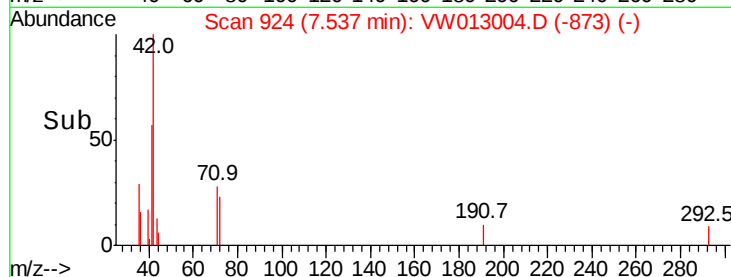
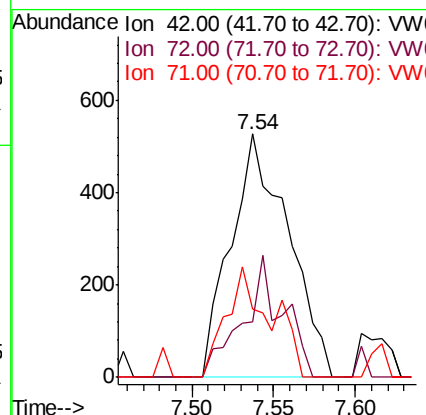
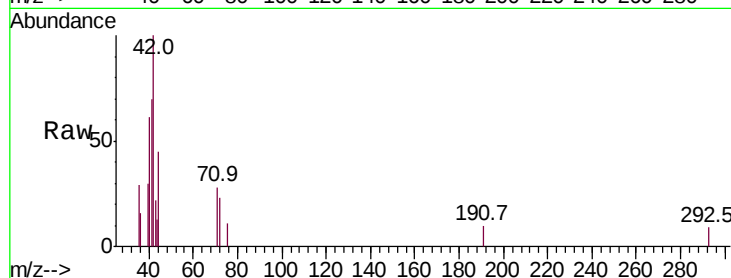
Tot Ion: 42 Resp: 1289

Ion Ratio Lower Upper

42 100

72 34.5 31.4 47.0

71 35.0 29.8 44.8



#31

Cyclohexane

Concen: Below Cal

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW013004.D

Acq: 14 Sep 2019 19:48

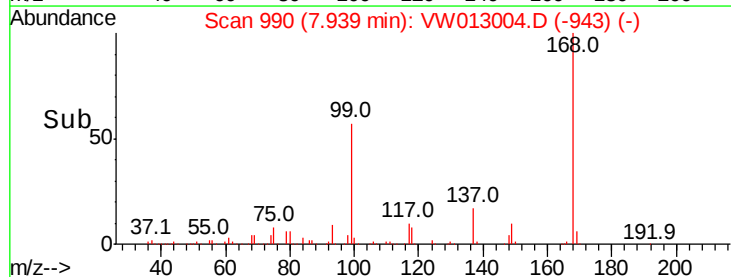
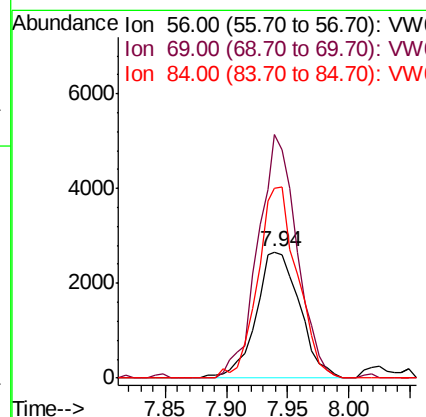
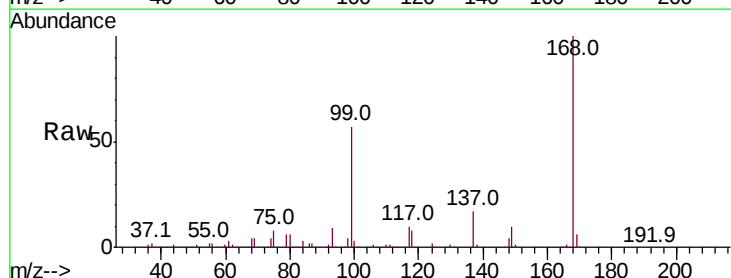
Tgt Ion: 56 Resp: 6621

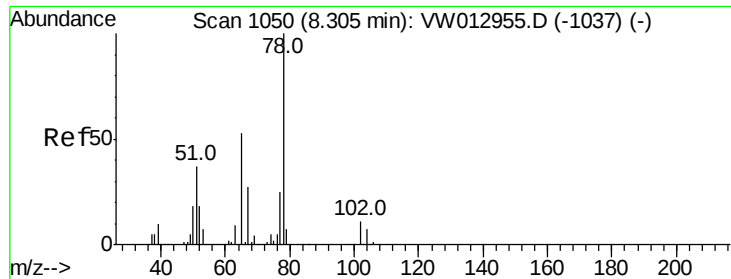
Ion Ratio Lower Upper

56 100

69 193.2 27.0 40.6#

84 151.0 66.2 99.2#





#33

1,2-Dichloroethane-d4

Concen: 57.333 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW013004.D

Acq: 14 Sep 2019 19:48

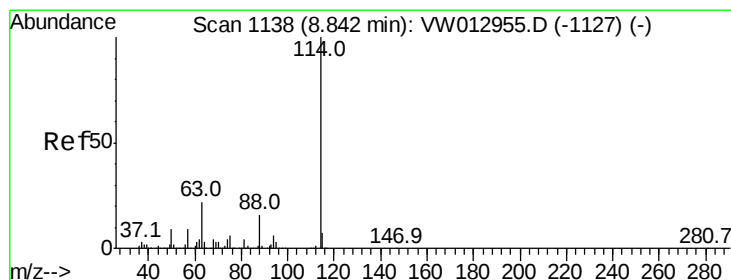
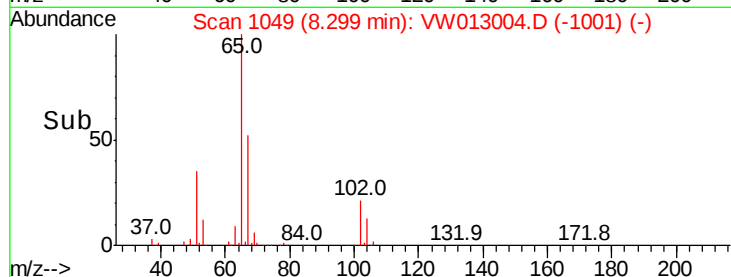
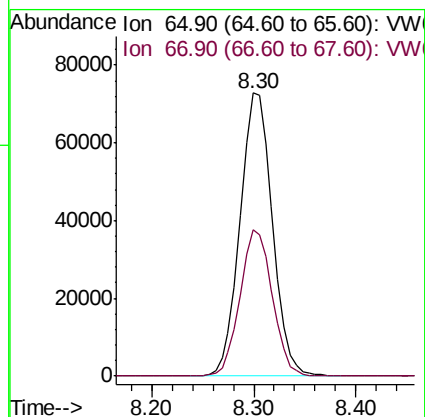
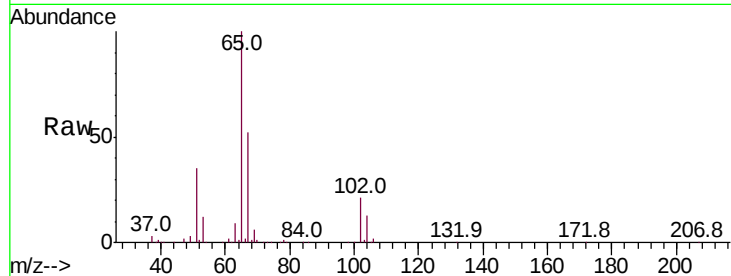
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 65 Resp: 160764

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: VW013004.D

Acq: 14 Sep 2019 19:48

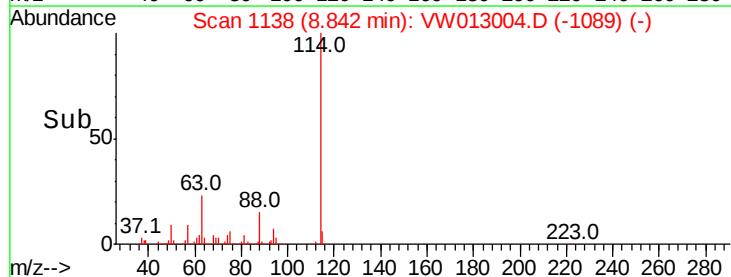
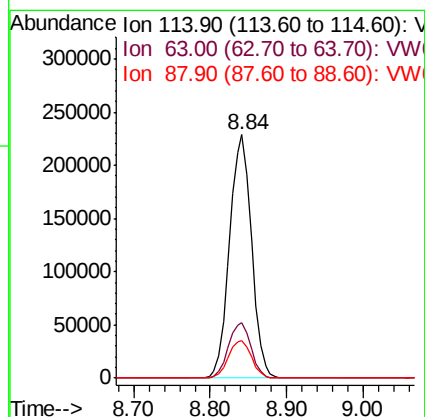
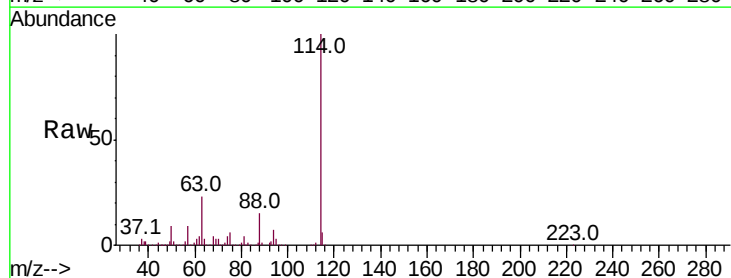
Tgt Ion: 114 Resp: 453715

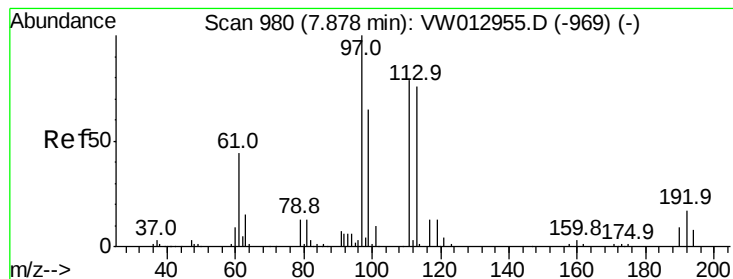
Ion Ratio Lower Upper

114 100

63 22.8 0.0 43.4

88 15.4 0.0 31.6





#35

Dibromofluoromethane

Concen: 53.726 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW013004.D

Acq: 14 Sep 2019 19:48

Instrument :
MSVOA_W
ClientSampleId :

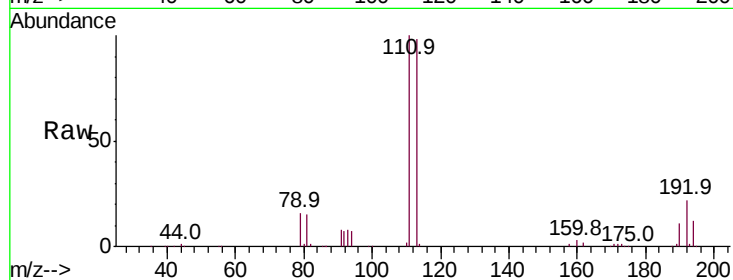
Tot Ion:113 Resp: 132268

Ion Ratio Lower Upper

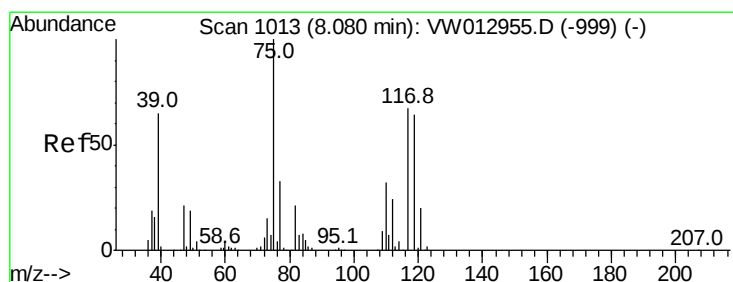
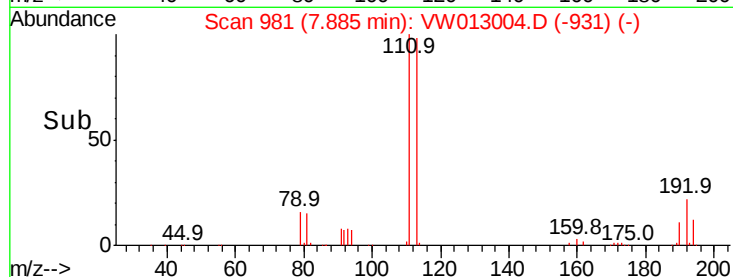
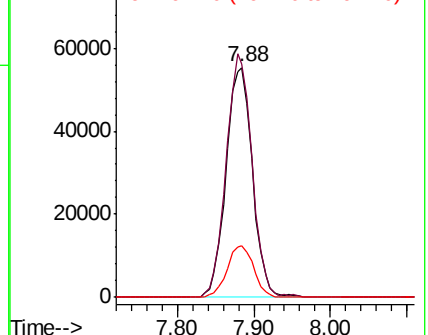
113 100

111 103.7 82.8 124.2

192 22.7 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: 6.419 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW013004.D

Acq: 14 Sep 2019 19:48

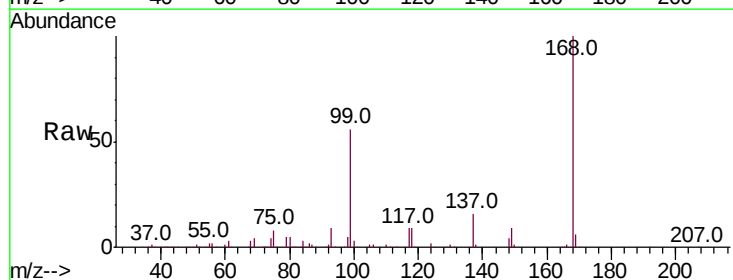
Tgt Ion: 75 Resp: 23271

Ion Ratio Lower Upper

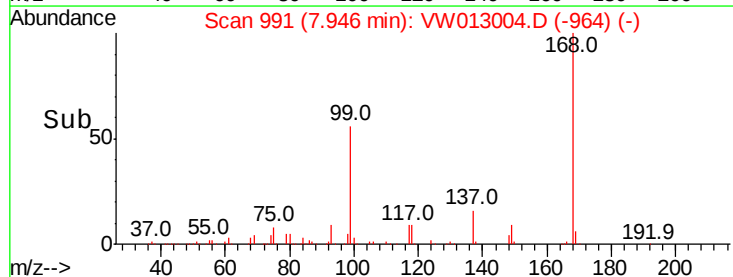
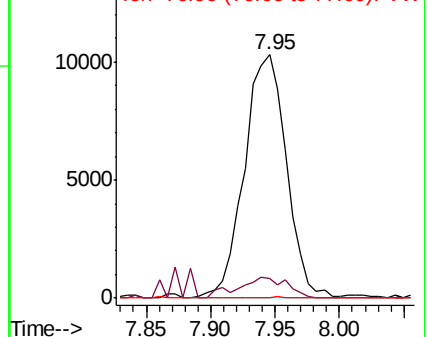
75 100

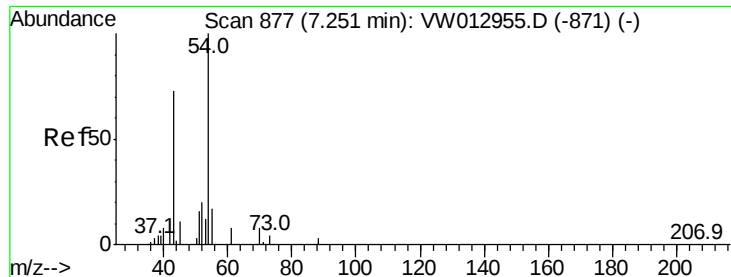
110 8.4 16.4 49.1#

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

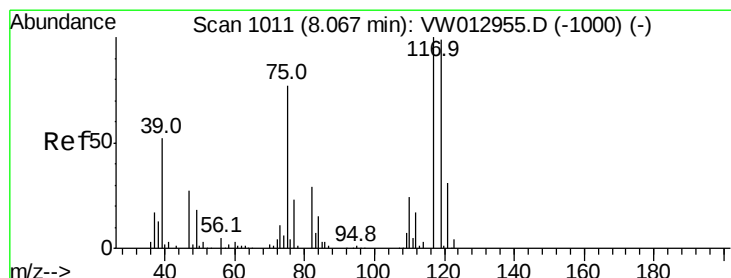
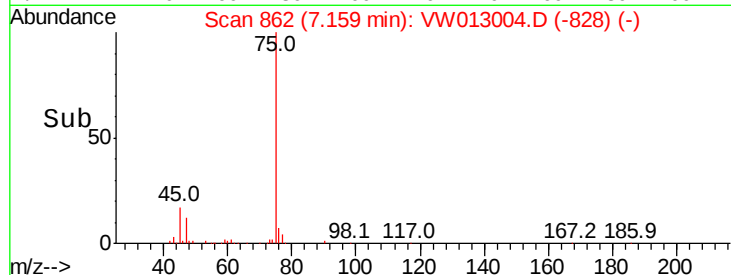
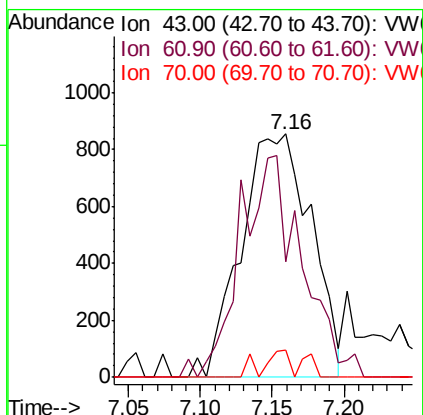
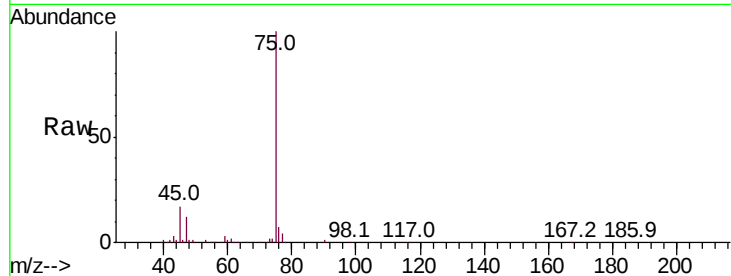




#37
Ethyl Acetate
Concen: 1.504 ug/l
RT: 7.16 min Scan# 862
Delta R.T. -0.09 min
Lab File: VW013004.D
Acq: 14 Sep 2019 19:48

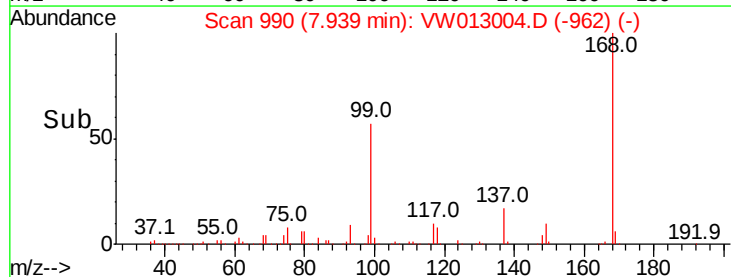
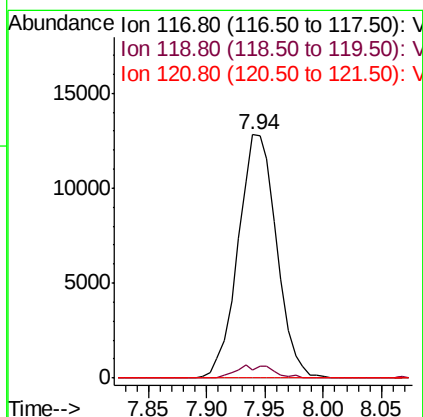
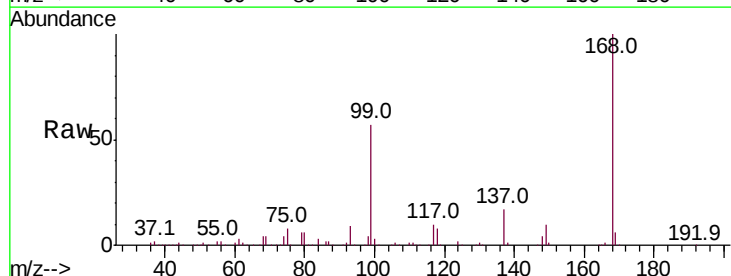
Instrument :
MSVOA_W
ClientSampled :

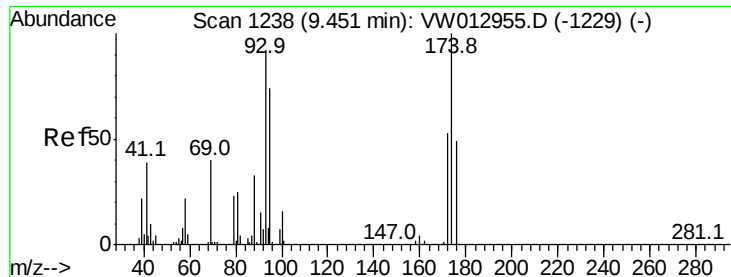
Tot Ion: 43 Resp: 2894
Ion Ratio Lower Upper
43 100
61 80.2 9.6 14.4#
70 3.0 7.6 11.4#



#38
Carbon Tetrachloride
Concen: 7.926 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.13 min
Lab File: VW013004.D
Acq: 14 Sep 2019 19:48

Tgt Ion: 117 Resp: 29447
Ion Ratio Lower Upper
117 100
119 3.5 79.4 119.0#
121 0.0 24.6 36.8#

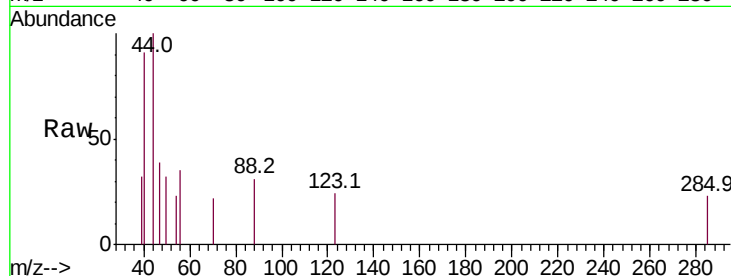




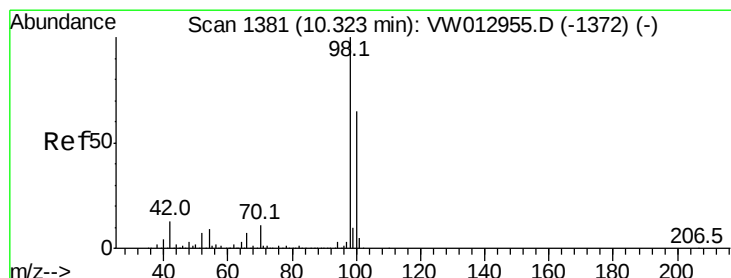
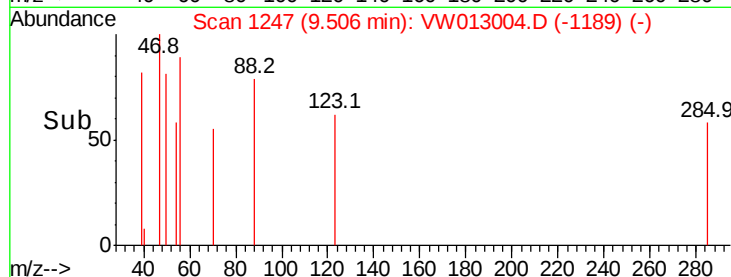
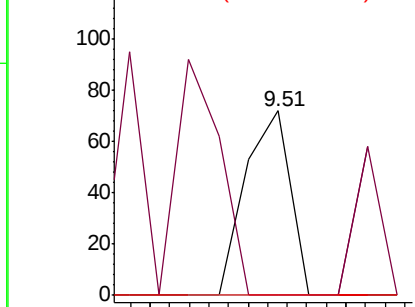
#49
1,4-Dioxane
Concen: 2.131 ug/l
RT: 9.51 min Scan# 1247
Delta R.T. 0.05 min
Lab File: VW013004.D
Acq: 14 Sep 2019 19:48

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 88 Resp: 46
Ion Ratio Lower Upper
88 100
43 121.7 31.3 46.9#
58 0.0 60.2 90.2#

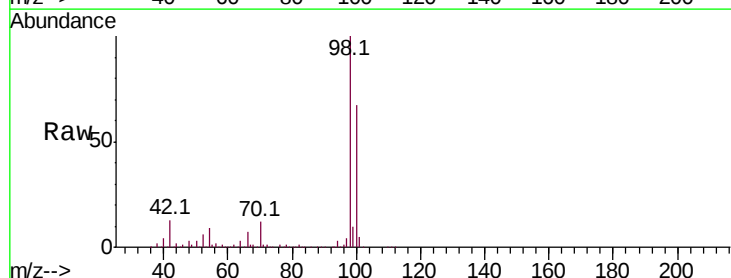


Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

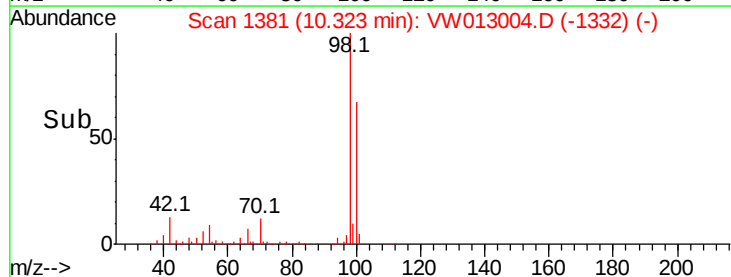
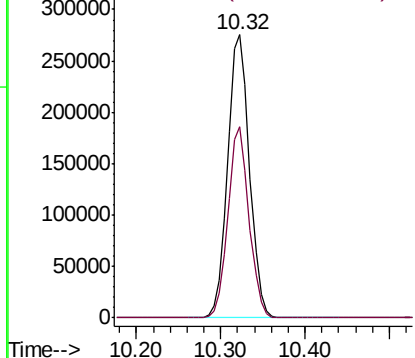


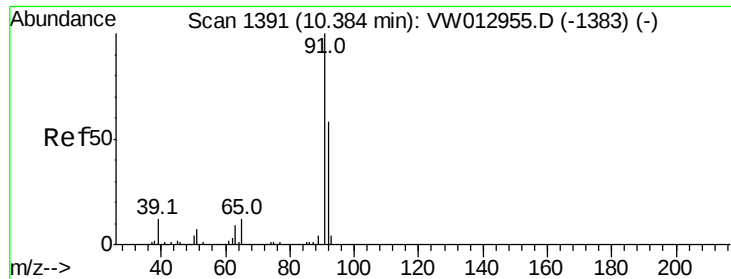
#50
Toluene-d8
Concen: 50.428 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013004.D
Acq: 14 Sep 2019 19:48

Tgt Ion: 98 Resp: 485809
Ion Ratio Lower Upper
98 100
100 65.1 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: 1.225 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW013004.D

Acq: 14 Sep 2019 19:48

Instrument :

MSVOA_W

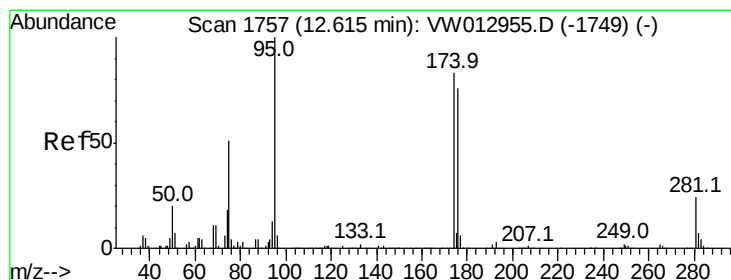
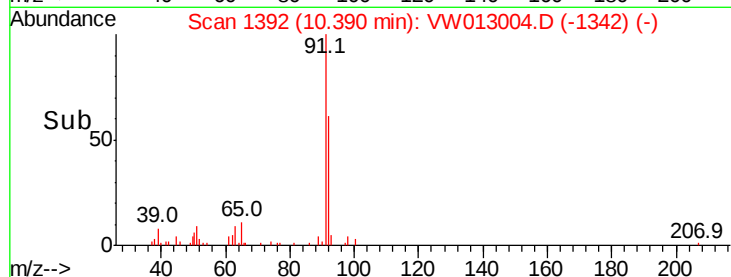
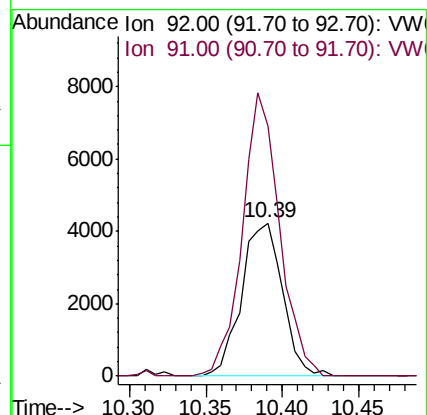
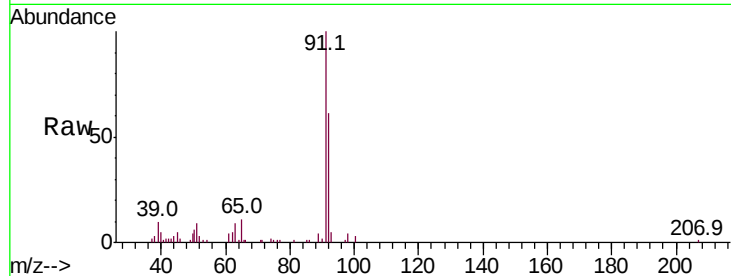
ClientSampleId :

Tot Ion: 92 Resp: 7876

Ion Ratio Lower Upper

92 100

91 167.8 137.5 206.3



#62

4-Bromofluorobenzene

Concen: 51.411 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013004.D

Acq: 14 Sep 2019 19:48

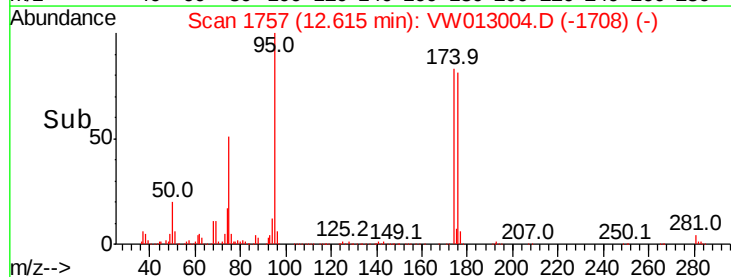
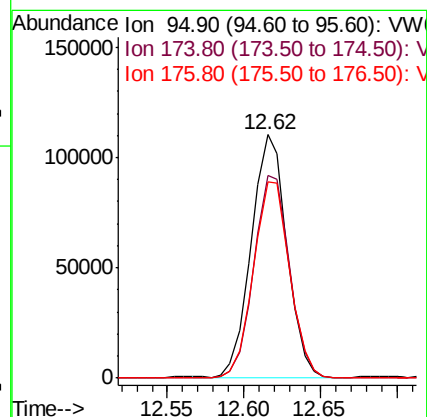
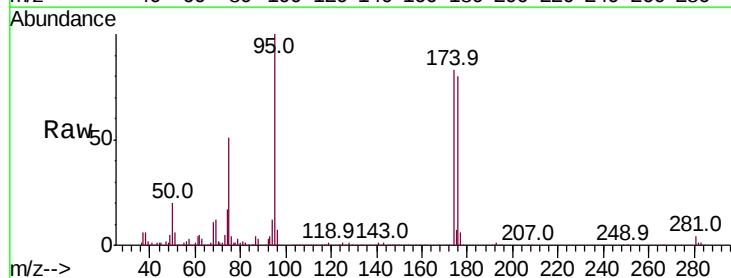
Tgt Ion: 95 Resp: 178092

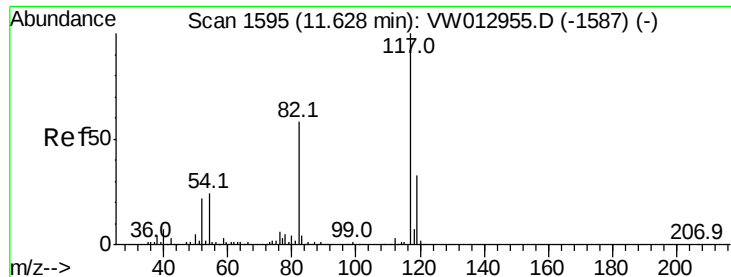
Ion Ratio Lower Upper

95 100

174 84.2 0.0 170.4

176 82.4 0.0 164.6

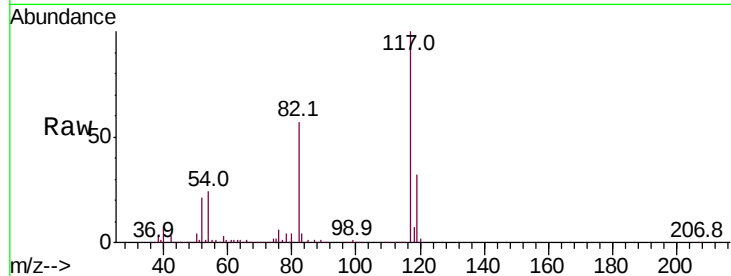




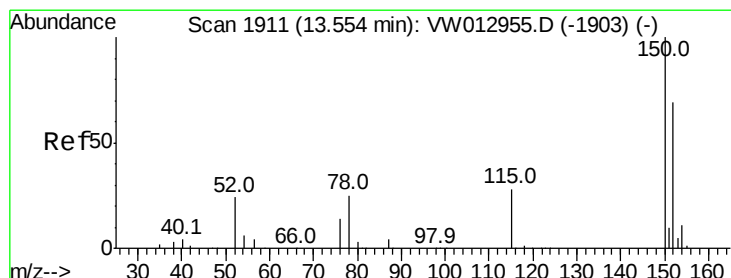
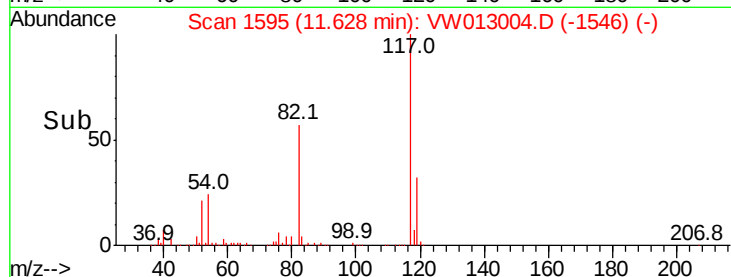
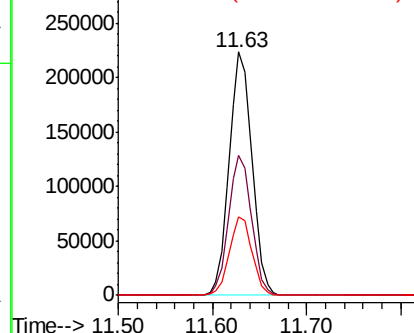
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013004.D
Acq: 14 Sep 2019 19:48

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:117 Resp: 376184
Ion Ratio Lower Upper
117 100
82 57.4 46.3 69.5
119 32.2 26.2 39.4

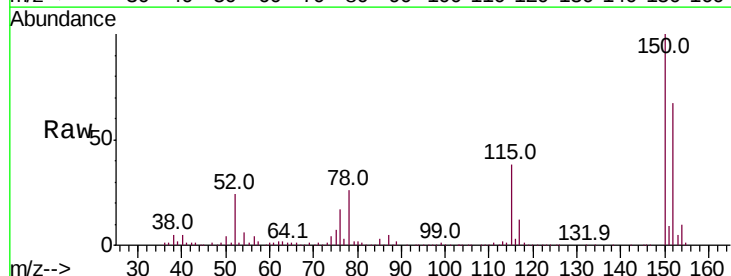


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

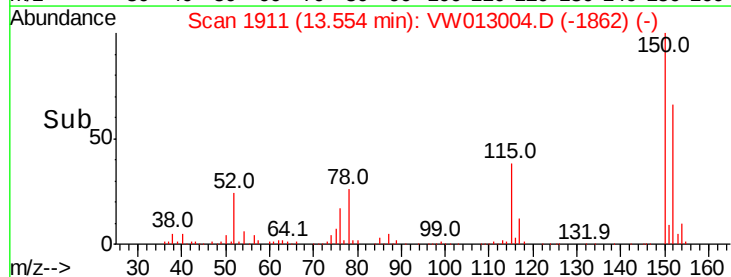
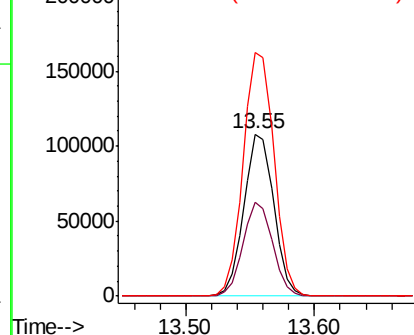


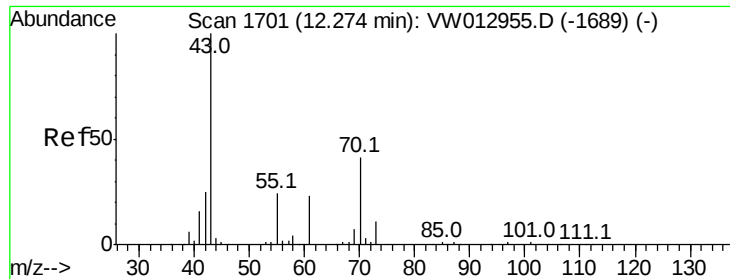
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.00 min
Lab File: VW013004.D
Acq: 14 Sep 2019 19:48

Tgt Ion:152 Resp: 173272
Ion Ratio Lower Upper
152 100
115 57.3 28.8 86.4
150 155.0 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





#74

N-amvl acetate

Concen: 1.419 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW013004.D

Acq: 14 Sep 2019 19:48

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 43 Resp: 4192

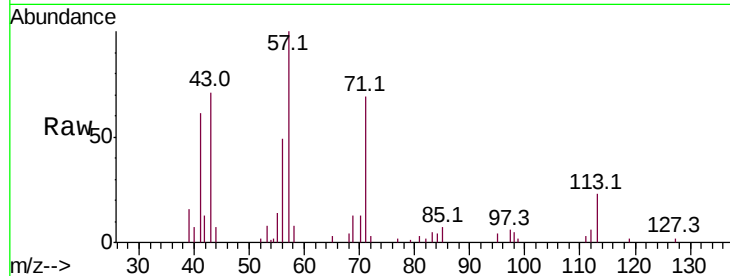
Ion Ratio Lower Upper

43 100

70 13.9 31.7 47.5#

55 0.0 19.4 29.2#

61 0.0 18.7 28.1#

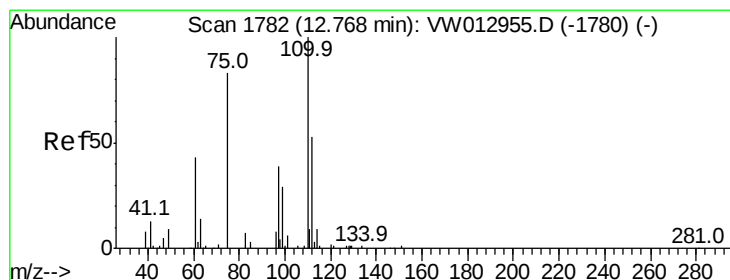
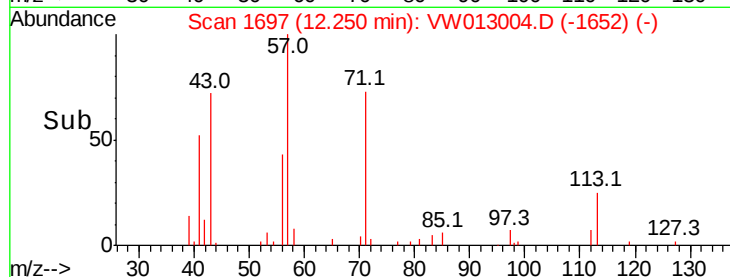
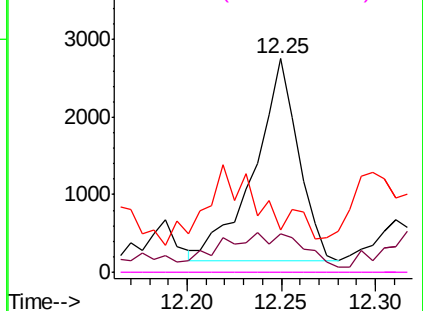


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#76

1,2,3-Trichloropropane

Concen: 60.742 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013004.D

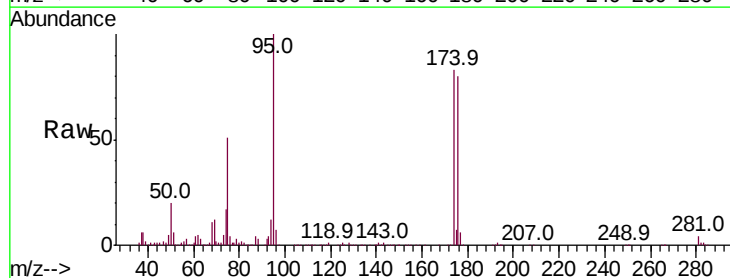
Acq: 14 Sep 2019 19:48

Tgt Ion: 75 Resp: 92190

Ion Ratio Lower Upper

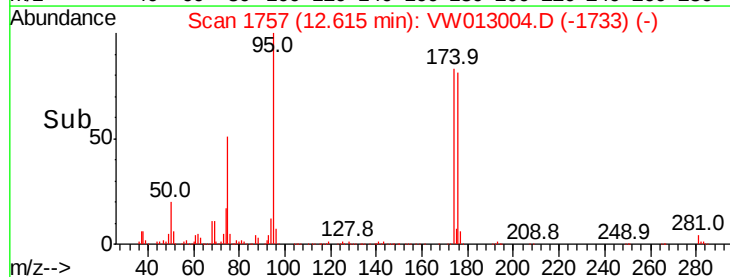
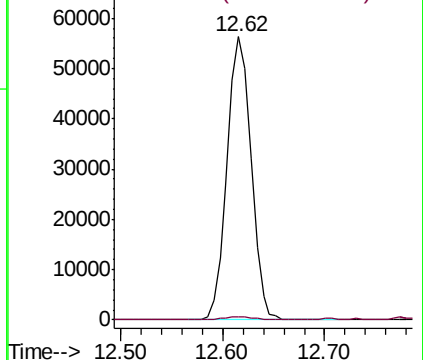
75 100

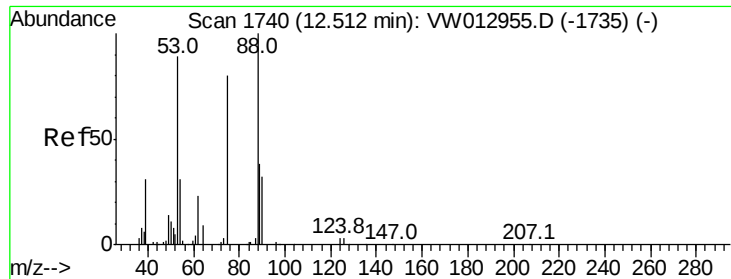
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 137.792 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013004.D

Acq: 14 Sep 2019 19:48

Instrument :

MSVOA_W

ClientSampleId :

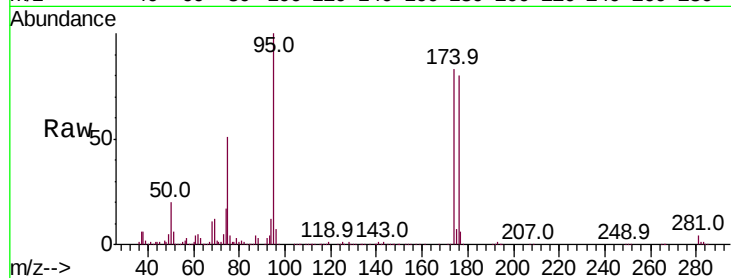
Tot Ion: 75 Resp: 92190

Ion Ratio Lower Upper

75 100

53 0.2 85.6 128.4#

89 0.0 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

