

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091519\
 Data File : VW013002.D
 Acq On : 14 Sep 2019 18:56
 Operator : SY/VA
 Sample : K4822-02
 Misc : 4.65G/5ML/MSVOA W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 16 06:54:28 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	306865	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	470998	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	396565	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	174366	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	159998	56.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.90%	
35) Dibromofluoromethane	7.88	113	135768	53.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.24%	
50) Toluene-d8	10.32	98	532794	53.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.56%	
62) 4-Bromofluorobenzene	12.62	95	181442	50.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.92%	

Target Compounds

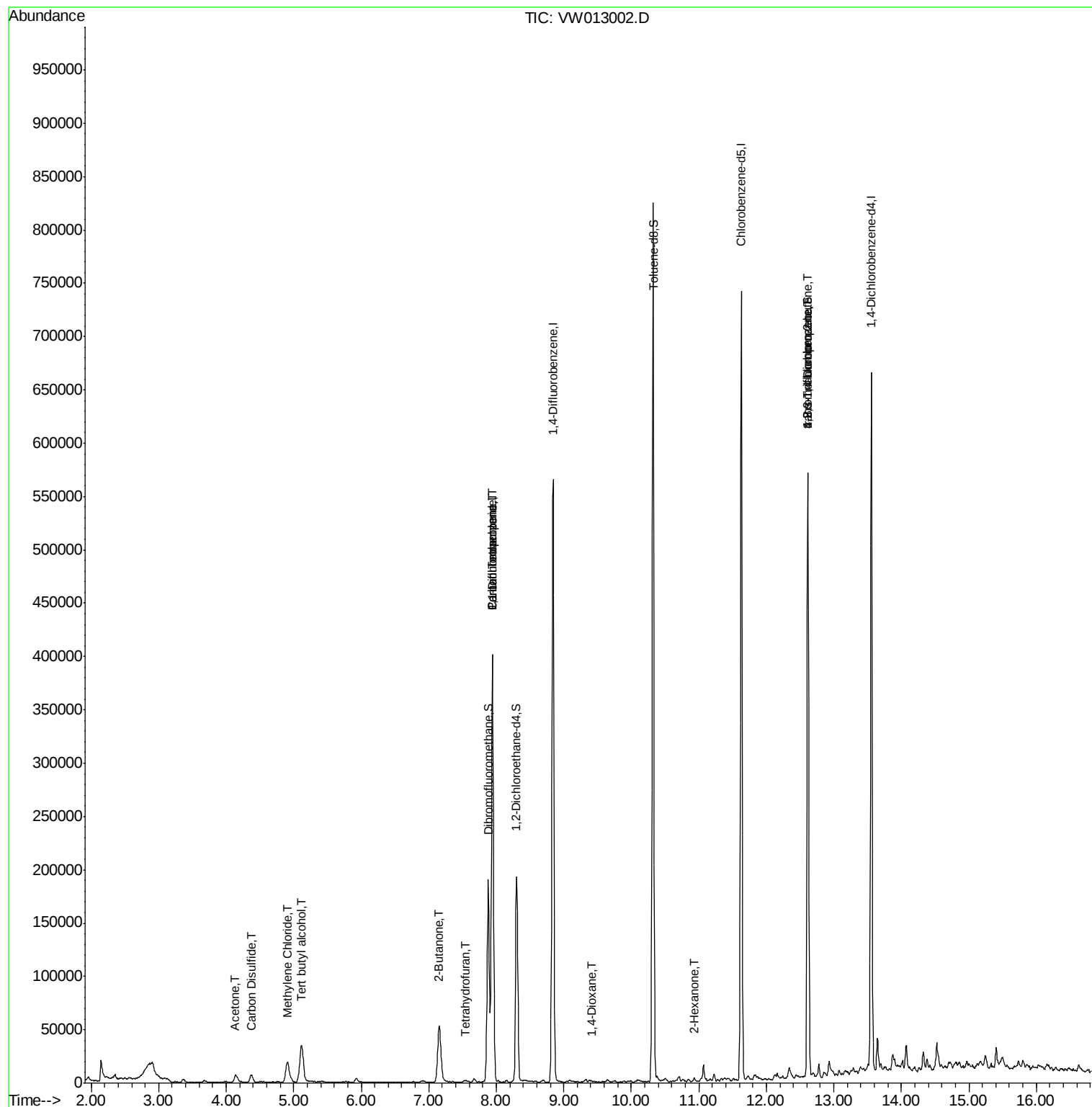
						Qvalue
2) Dichlorodifluoromethane	2.21	85	20	Below Cal	#	44
3) Chloromethane	2.20	50	320	Below Cal	#	41
11) Tert butyl alcohol	5.12	59	34709	174.998	ug/l #	76
13) Acrolein	3.87	56	61	Below Cal	#	15
16) Acetone	4.14	43	15578	6.274	ug/l	100
17) Carbon Disulfide	4.38	76	15188	3.598	ug/l	97
20) Methylene Chloride	4.90	84	15468	1.751	ug/l	97
25) 2-Butanone	7.15	43	4065	4.511	ug/l	99
26) 2,2-Dichloropropane	7.16	77	4573	Below Cal	#	55
29) Tetrahydrofuran	7.54	42	1383	2.693	ug/l	92
31) Cyclohexane	7.95	56	6420	Below Cal	#	1
36) 1,1-Dichloropropene	7.95	75	24161	6.420	ug/l #	51
38) Carbon Tetrachloride	7.94	117	29241	7.581	ug/l #	15
49) 1,4-Dioxane	9.42	88	25	1.116	ug/l #	1
59) 2-Hexanone	10.93	43	1819	1.319	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	92818	60.772	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	92818	137.861	ug/l #	7

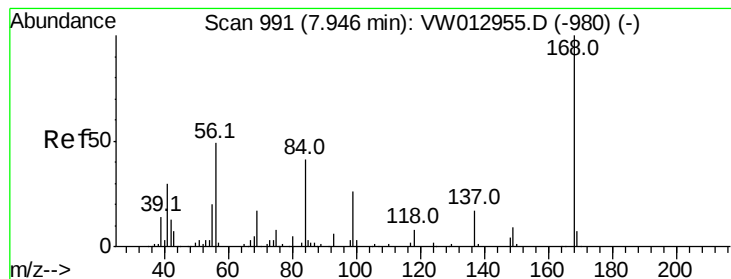
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013002.D

Acq: 14 Sep 2019 18:56

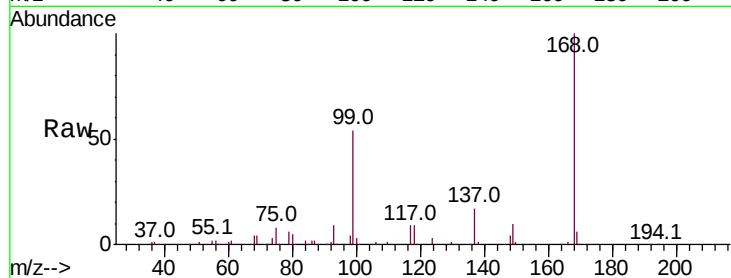
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 306865

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

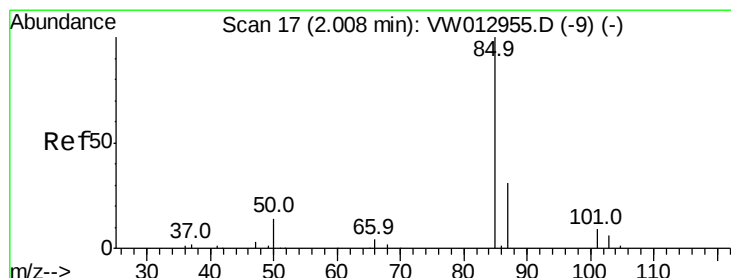
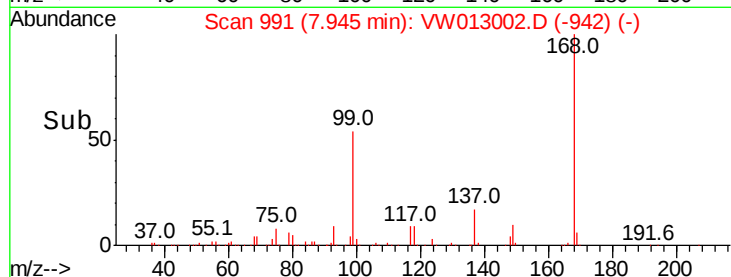
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.21 min Scan# 50

Delta R.T. 0.20 min

Lab File: VW013002.D

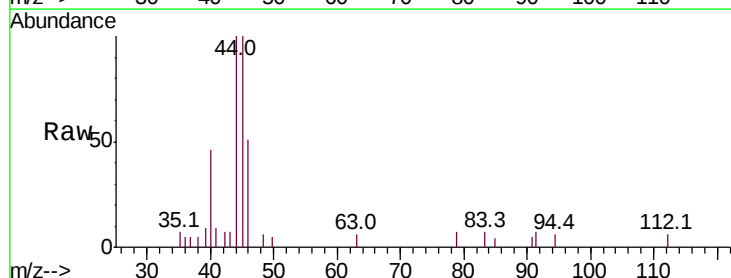
Acq: 14 Sep 2019 18:56

Tgt Ion: 85 Resp: 20

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

2.21

60

50

40

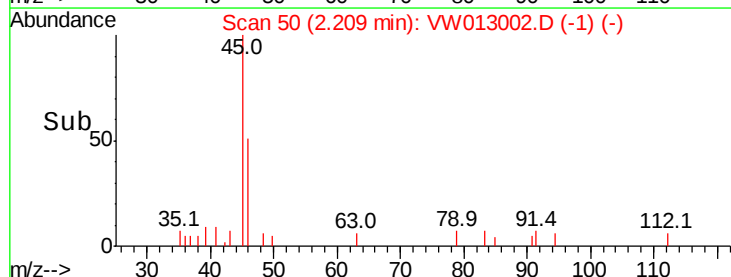
30

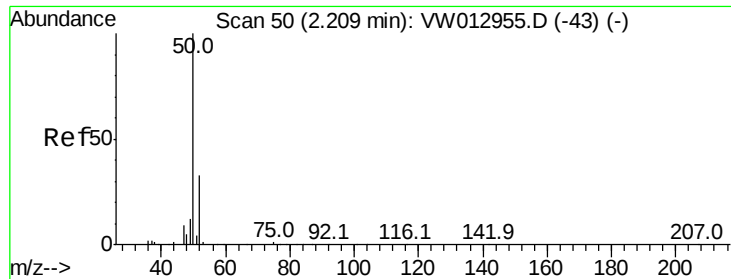
20

10

0

Time--> 2.19 2.20 2.21 2.22





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013002.D

Acq: 14 Sep 2019 18:56

Instrument :

MSVOA_W

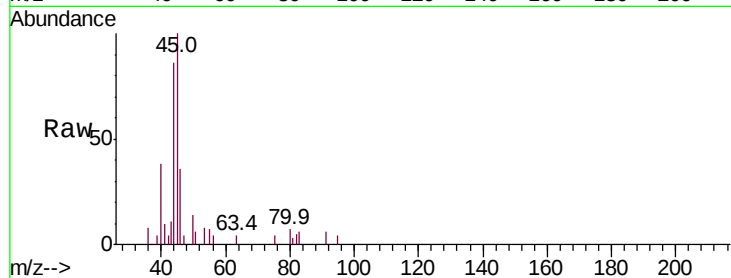
ClientSampled :

Tot Ion: 50 Resp: 320

Ion Ratio Lower Upper

50 100

52 0.0 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.20

250

200

150

100

50

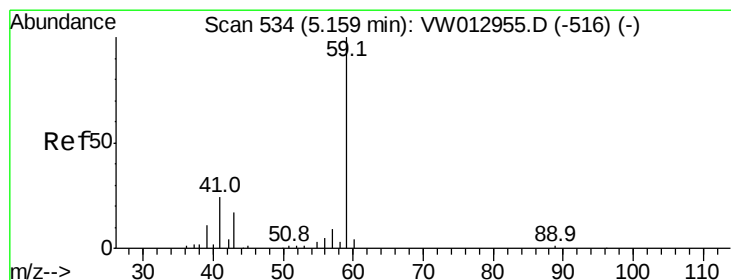
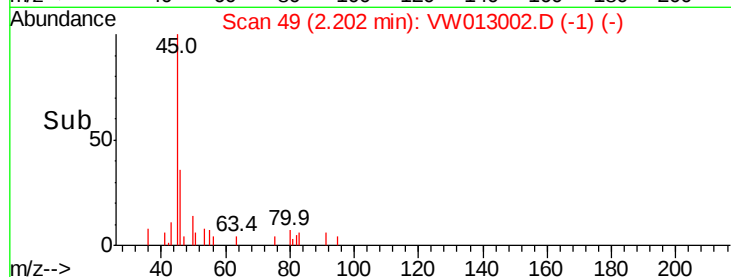
0

Time-->

2.15

2.20

2.25



#11

Tert butyl alcohol

Concen: 174.998 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.04 min

Lab File: VW013002.D

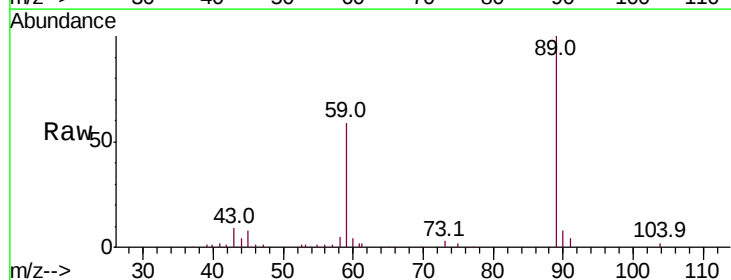
Acq: 14 Sep 2019 18:56

Tgt Ion: 59 Resp: 34709

Ion Ratio Lower Upper

59 100

57 1.8 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.12

10000

8000

6000

4000

2000

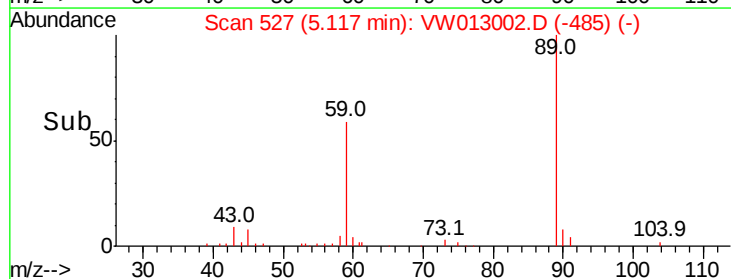
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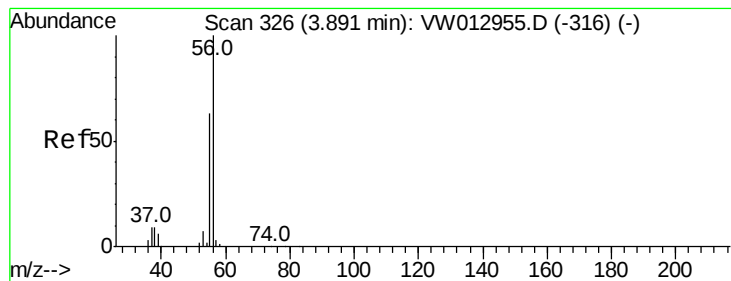
Time-->

5.00

5.10

5.20





#13

Acrolein

Concen: Below Cal

RT: 3.87 min Scan# 322

Delta R.T. -0.02 min

Lab File: VW013002.D

Acq: 14 Sep 2019 18:56

Instrument :

MSVOA_W

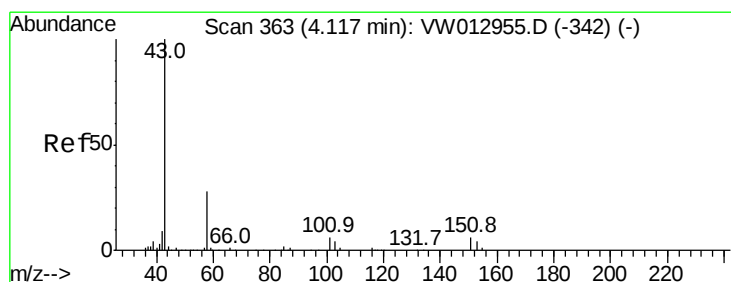
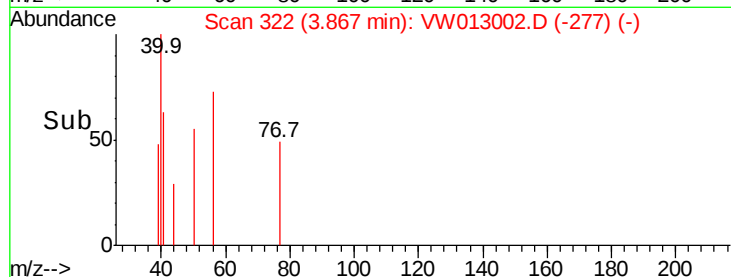
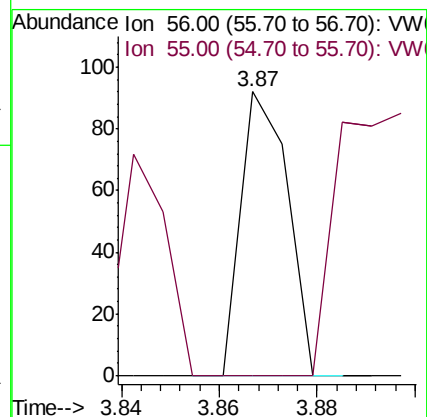
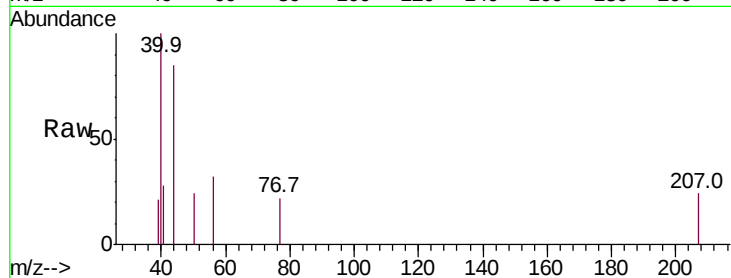
ClientSampleId :

Tot Ion: 56 Resp: 61

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



#16

Acetone

Concen: 6.274 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.03 min

Lab File: VW013002.D

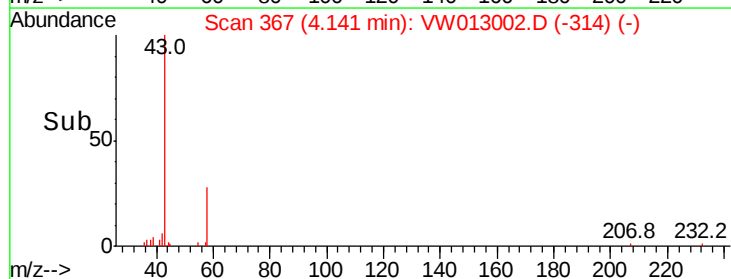
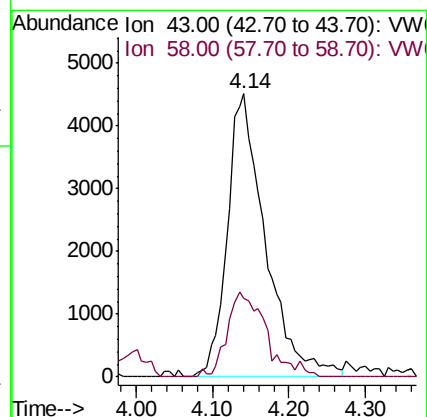
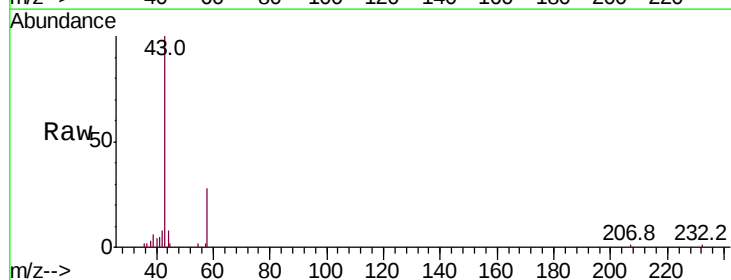
Acq: 14 Sep 2019 18:56

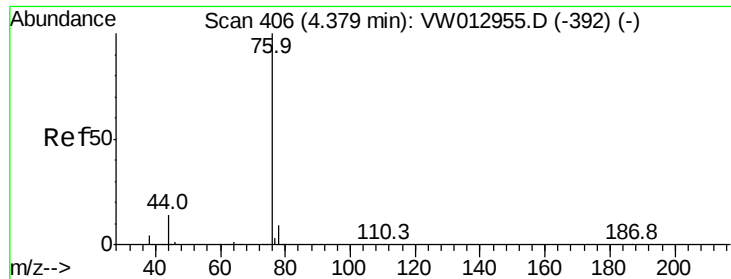
Tgt Ion: 43 Resp: 15578

Ion Ratio Lower Upper

43 100

58 28.0 22.3 33.5

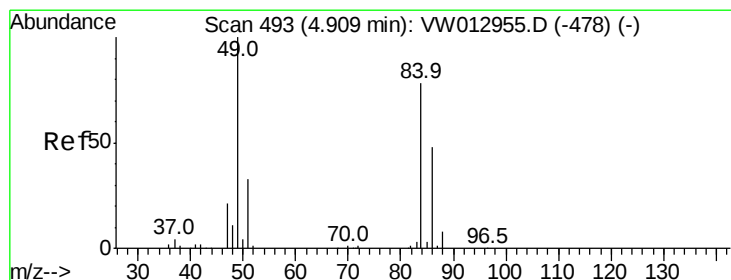
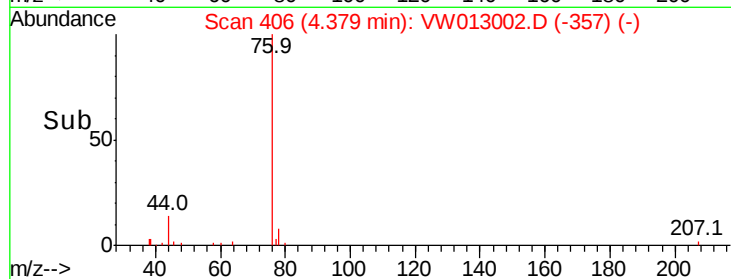
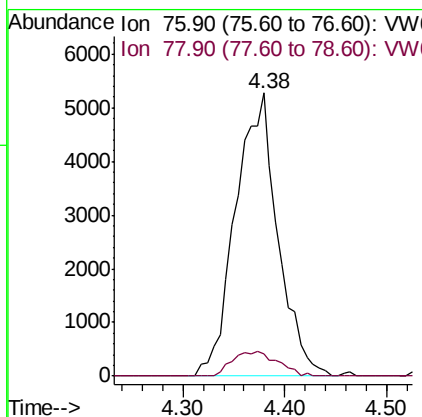
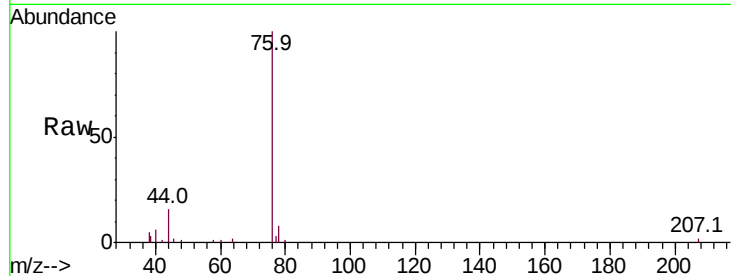




#17
Carbon Disulfide
Concen: 3.598 ug/l
RT: 4.38 min Scan# 406
Delta R.T. -0.00 min
Lab File: VW013002.D
Acq: 14 Sep 2019 18:56

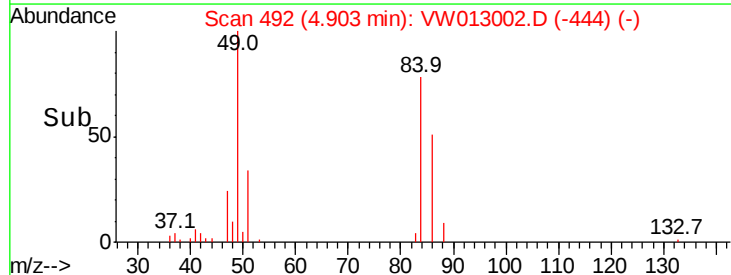
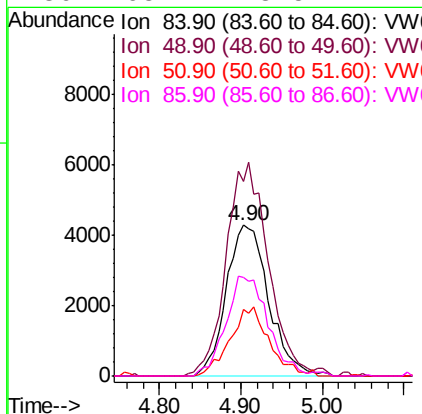
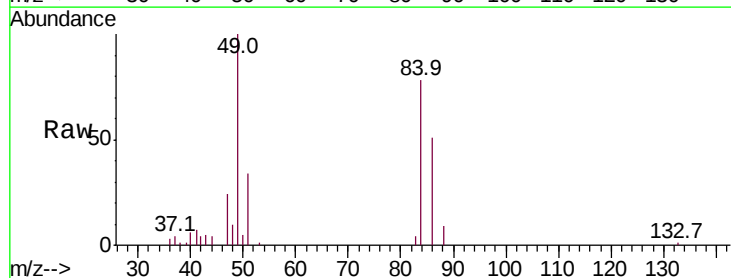
Instrument :
MSVOA_W
ClientSampleId :

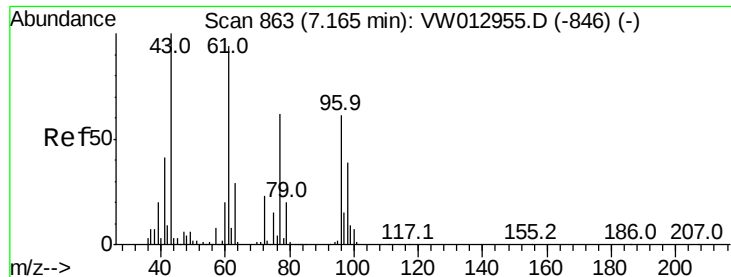
Tot Ion: 76 Resp: 15188
Ion Ratio Lower Upper
76 100
78 7.7 7.0 10.4



#20
Methylene Chloride
Concen: 1.751 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW013002.D
Acq: 14 Sep 2019 18:56

Tgt Ion: 84 Resp: 15468
Ion Ratio Lower Upper
84 100
49 128.6 102.0 153.0
51 44.2 34.0 51.0
86 65.2 48.5 72.7





#25

2-Butanone

Concen: 4.511 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW013002.D

Acq: 14 Sep 2019 18:56

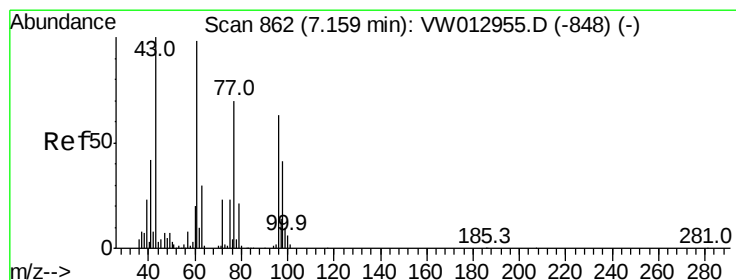
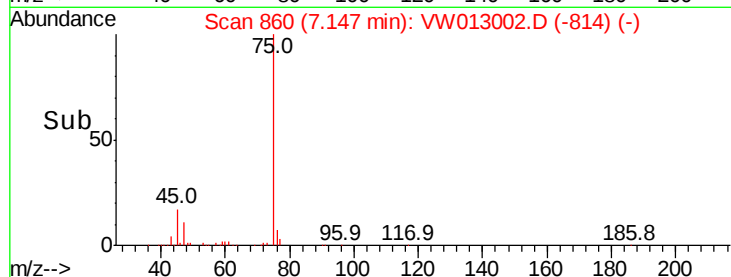
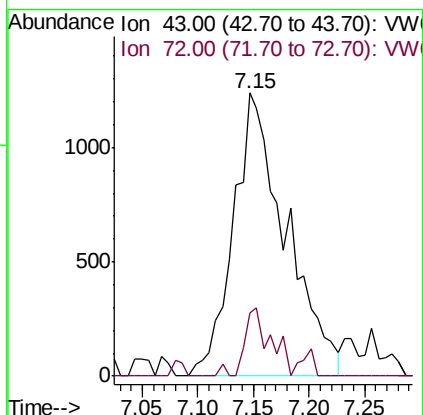
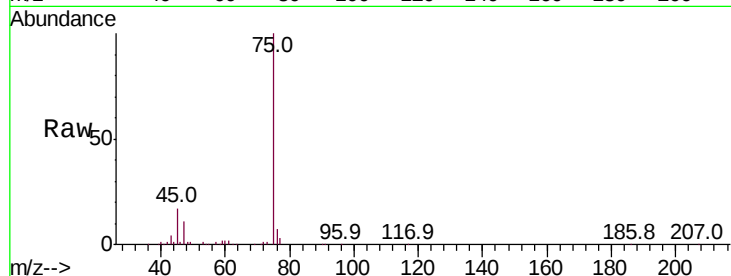
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 4065

Ion Ratio Lower Upper

43 100

72 22.3 18.2 27.4



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.16 min Scan# 862

Delta R.T. -0.00 min

Lab File: VW013002.D

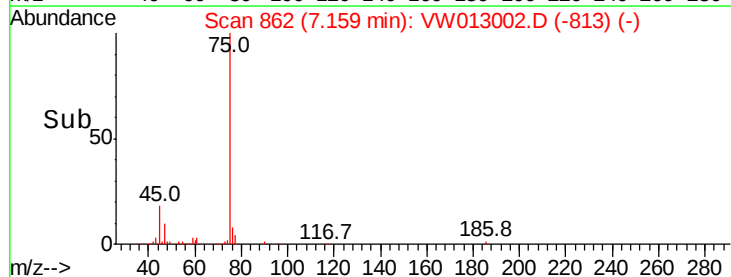
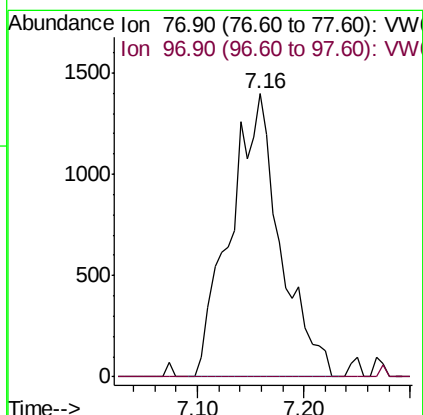
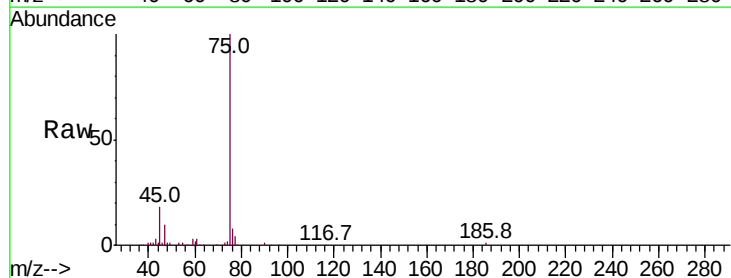
Acq: 14 Sep 2019 18:56

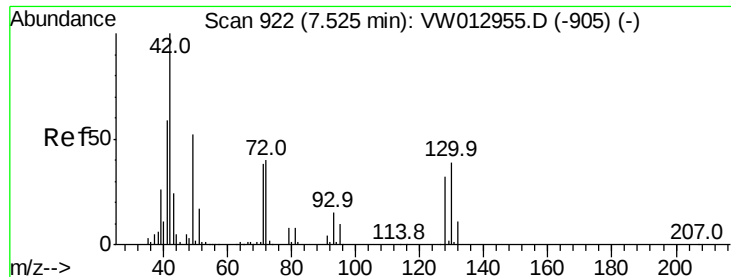
Tgt Ion: 77 Resp: 4573

Ion Ratio Lower Upper

77 100

97 0.0 10.7 32.1#

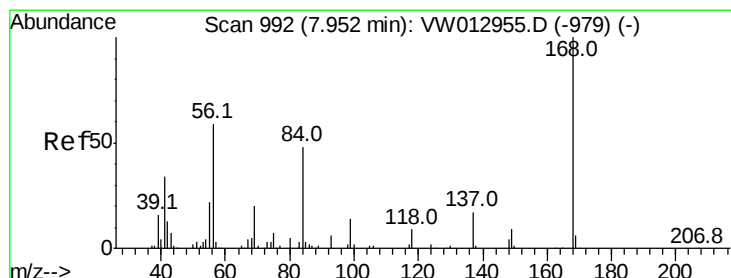
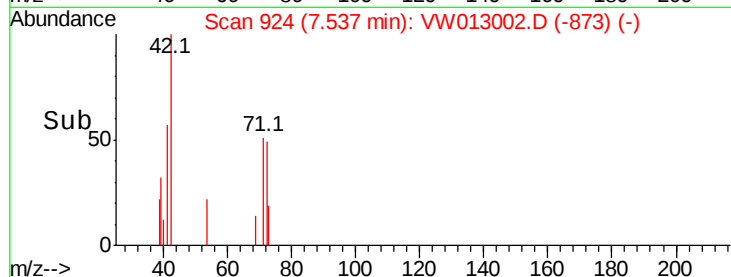
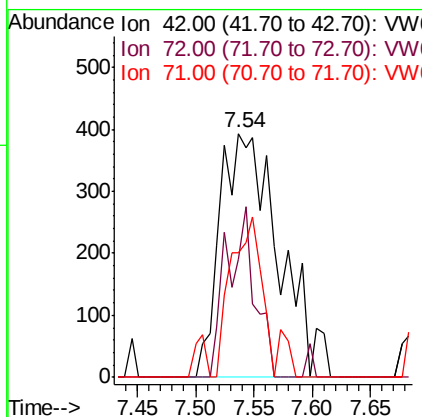
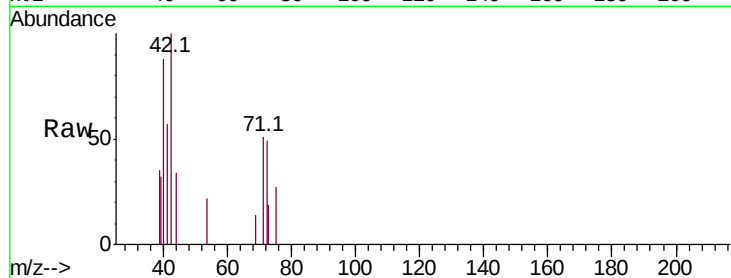




#29
Tetrahydrofuran
Concen: 2.693 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW013002.D
Acq: 14 Sep 2019 18:56

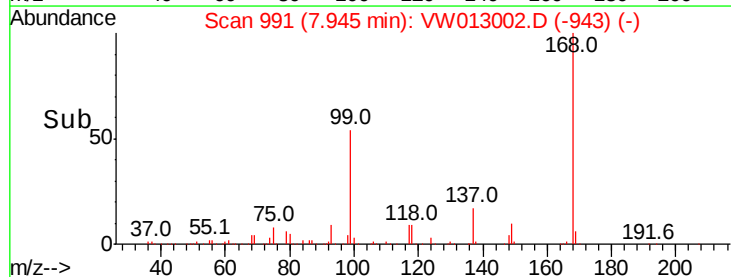
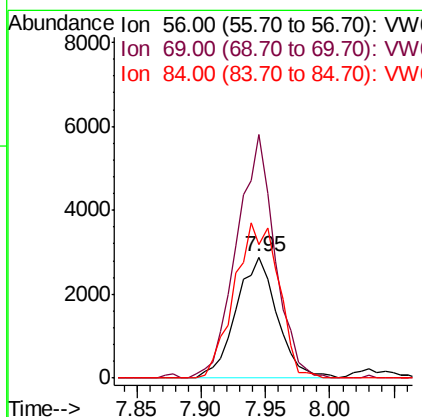
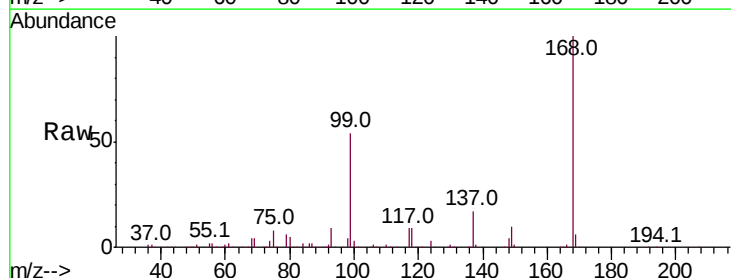
Instrument :
MSVOA_W
ClientSampled :

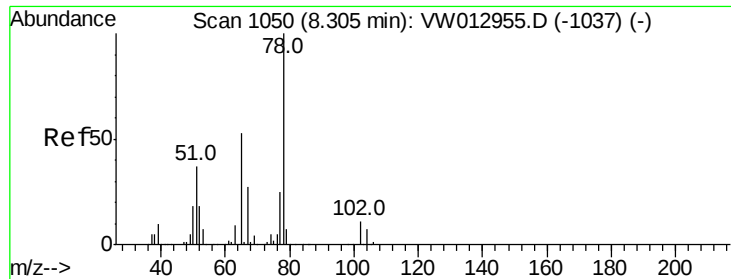
Tot Ion: 42 Resp: 1383
Ion Ratio Lower Upper
42 100
72 33.1 31.4 47.0
71 34.1 29.8 44.8



#31
Cyclohexane
Concen: Below Cal
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW013002.D
Acq: 14 Sep 2019 18:56

Tgt Ion: 56 Resp: 6420
Ion Ratio Lower Upper
56 100
69 201.3 27.0 40.6#
84 110.3 66.2 99.2#





#33

1,2-Dichloroethane-d4

Concen: 56.454 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW013002.D

Acq: 14 Sep 2019 18:56

Instrument :

MSVOA_W

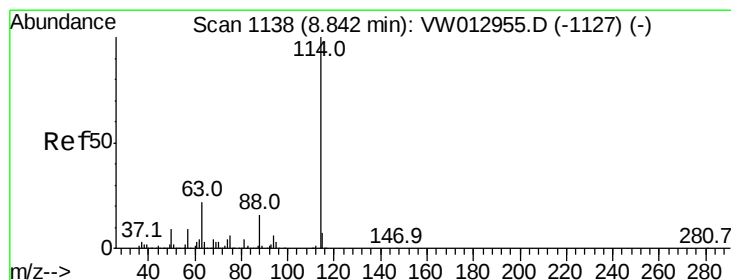
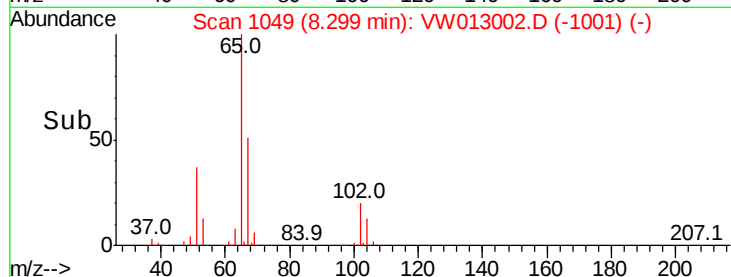
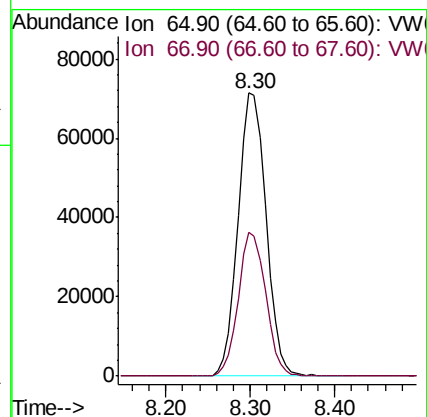
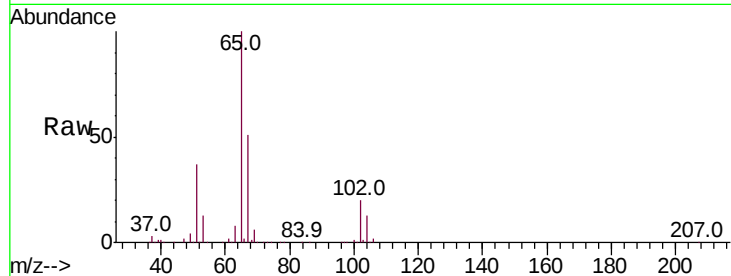
ClientSampleId :

Tot Ion: 65 Resp: 159998

Ion Ratio Lower Upper

65 100

67 50.0 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: VW013002.D

Acq: 14 Sep 2019 18:56

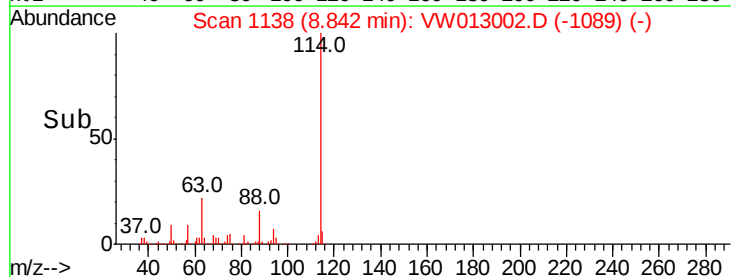
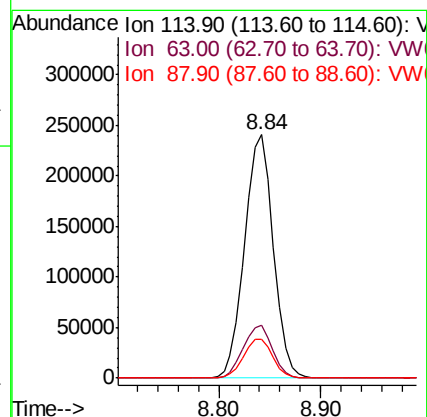
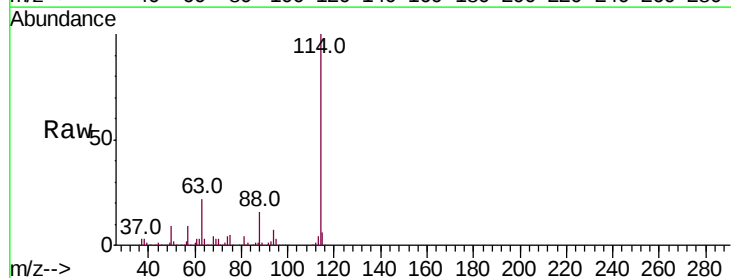
Tgt Ion: 114 Resp: 470998

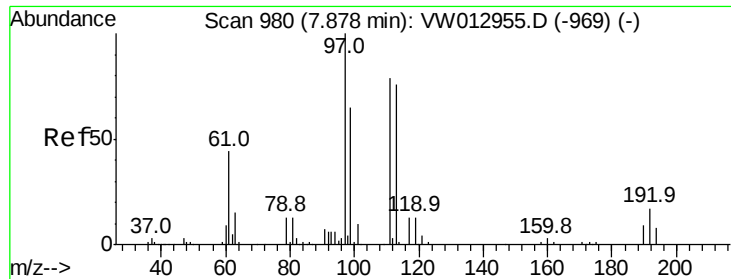
Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.4

88 16.0 0.0 31.6

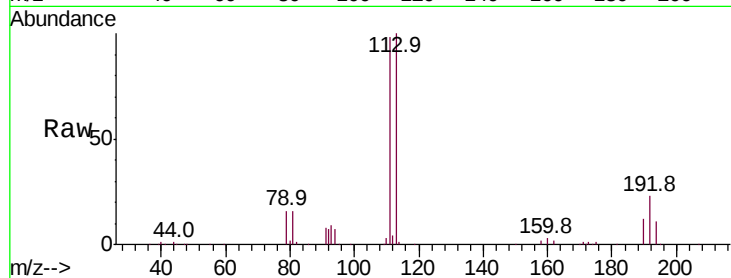




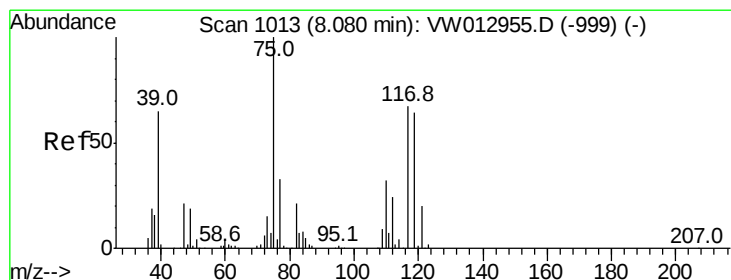
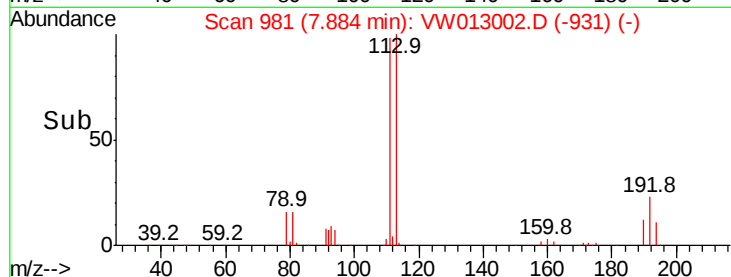
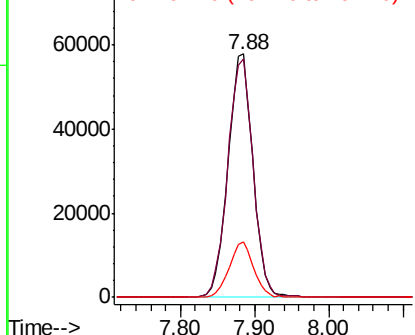
#35
 Dibromofluoromethane
 Concen: 53.124 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW013002.D
 Acq: 14 Sep 2019 18:56

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:113 Resp: 135768
 Ion Ratio Lower Upper
 113 100
 111 100.0 82.8 124.2
 192 22.2 17.8 26.8

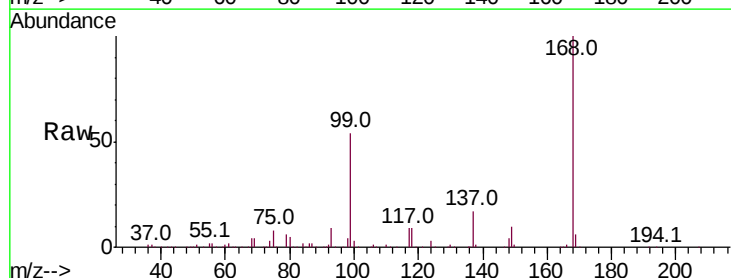


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

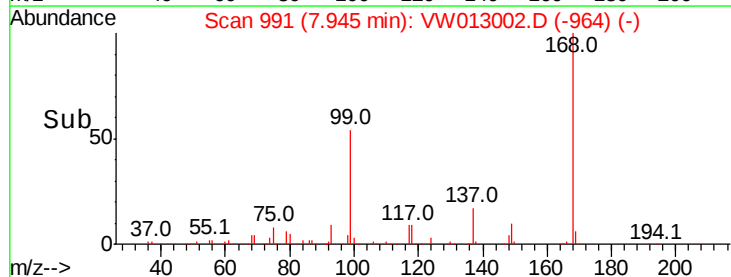
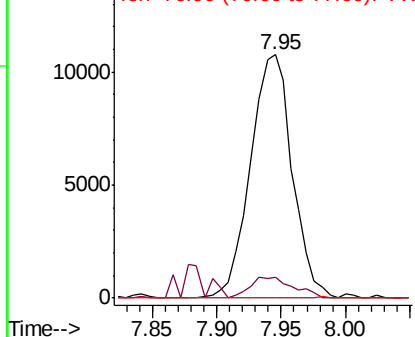


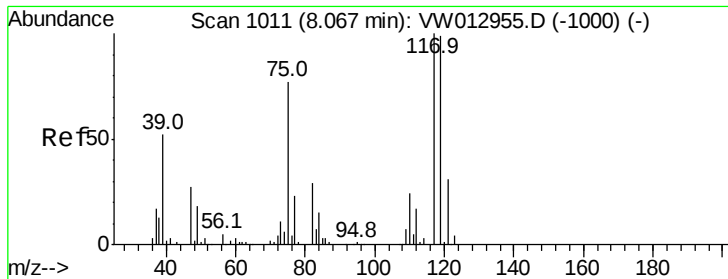
#36
 1,1-Dichloropropene
 Concen: 6.420 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW013002.D
 Acq: 14 Sep 2019 18:56

Tgt Ion: 75 Resp: 24161
 Ion Ratio Lower Upper
 75 100
 110 9.0 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: 7.581 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW013002.D

Acq: 14 Sep 2019 18:56

Instrument :

MSVOA_W

ClientSampleId :

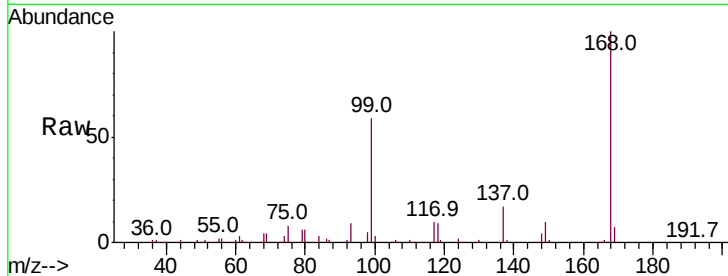
Tot Ion:117 Resp: 29241

Ion Ratio Lower Upper

117 100

119 5.2 79.4 119.0#

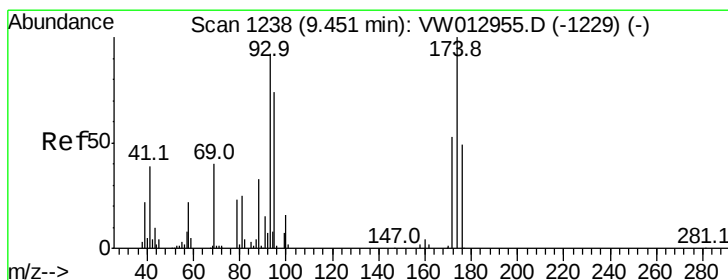
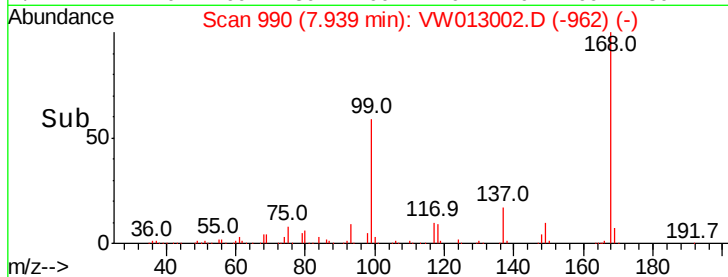
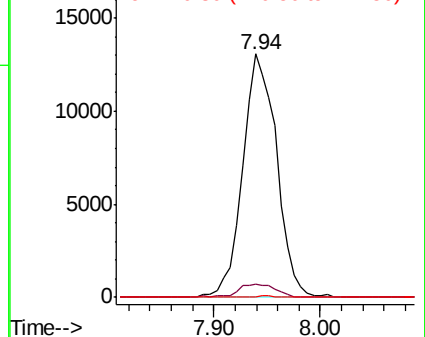
121 0.0 24.6 36.8#



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



#49

1,4-Dioxane

Concen: 1.116 ug/l

RT: 9.42 min Scan# 1233

Delta R.T. -0.03 min

Lab File: VW013002.D

Acq: 14 Sep 2019 18:56

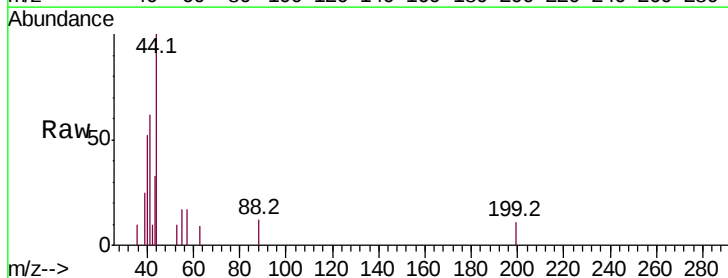
Tgt Ion: 88 Resp: 25

Ion Ratio Lower Upper

88 100

43 0.0 31.3 46.9#

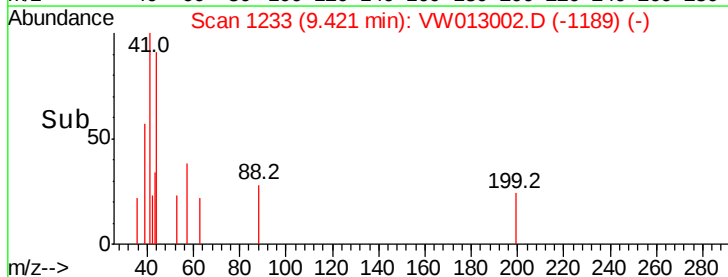
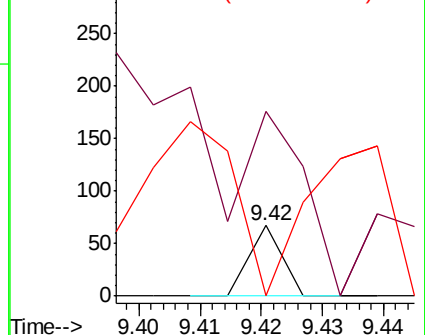
58 860.0 60.2 90.2#

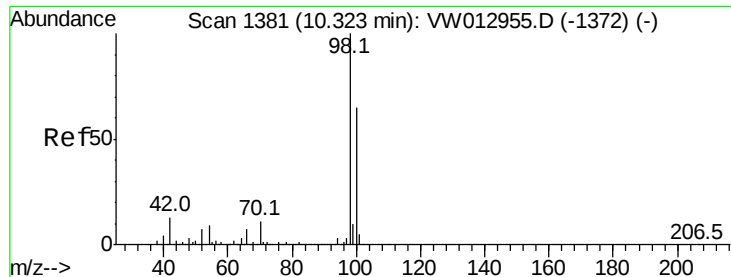


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 53.276 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013002.D

Acq: 14 Sep 2019 18:56

Instrument :

MSVOA_W

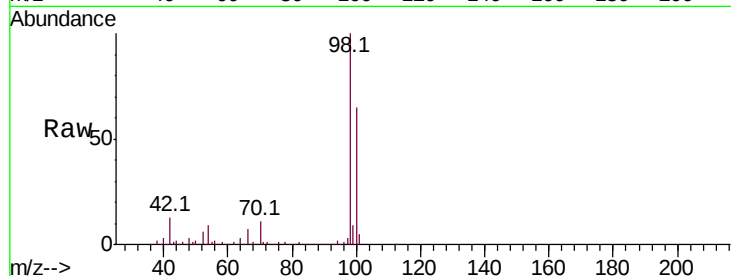
ClientSampleId :

Tot Ion: 98 Resp: 532794

Ion Ratio Lower Upper

98 100

100 65.0 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.32

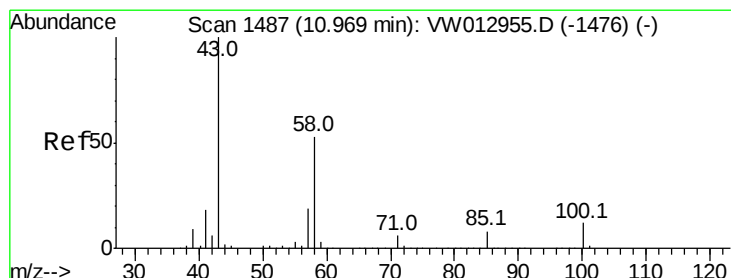
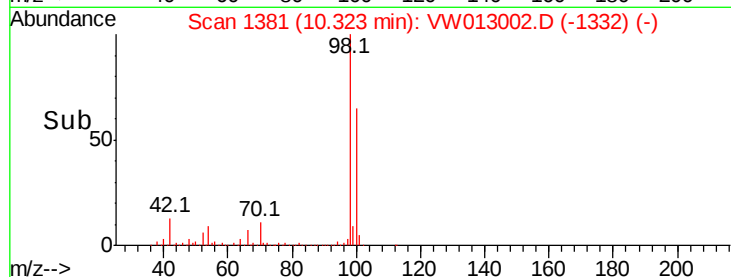
300000

200000

100000

0

Time--> 10.20 10.30 10.40



#59

2-Hexanone

Concen: 1.319 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.04 min

Lab File: VW013002.D

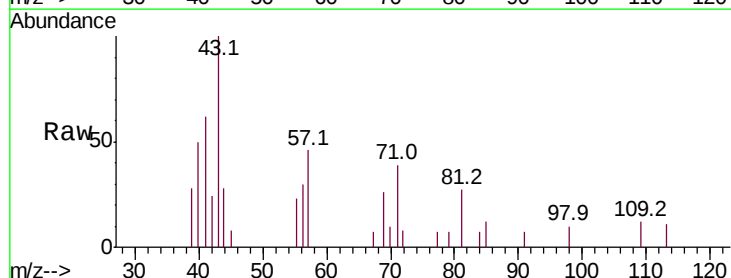
Acq: 14 Sep 2019 18:56

Tgt Ion: 43 Resp: 1819

Ion Ratio Lower Upper

43 100

58 0.0 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

10.93

800

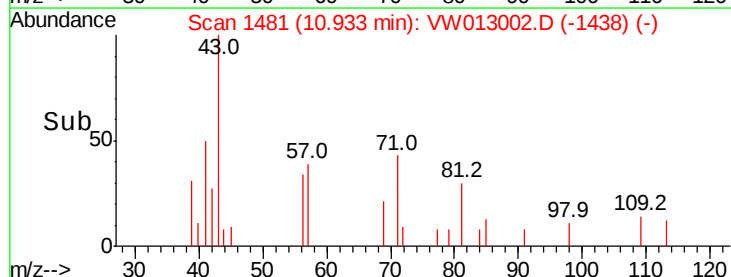
600

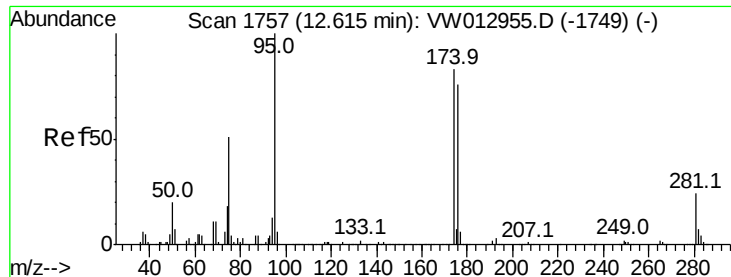
400

200

0

Time--> 10.90 11.00

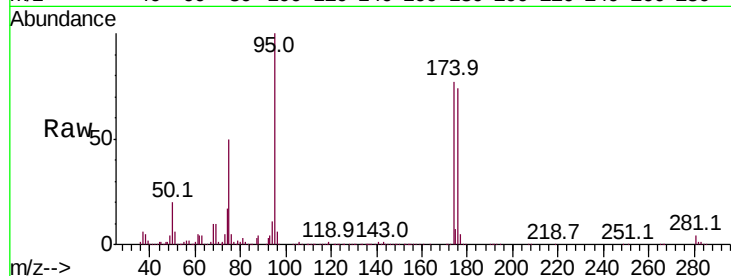




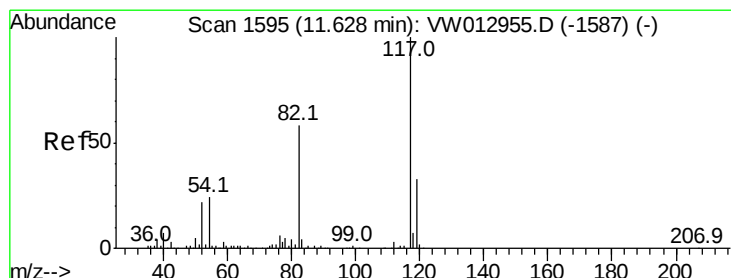
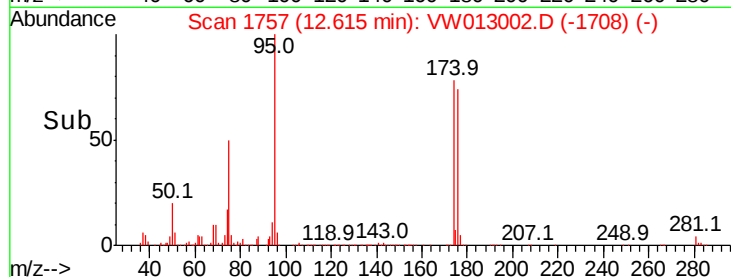
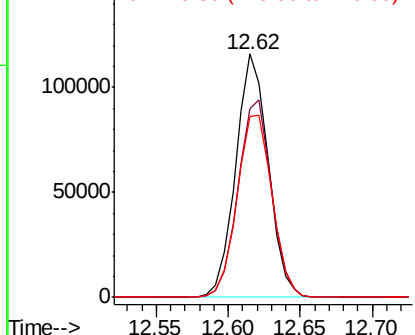
#62
4-Bromofluorobenzene
Concen: 50.456 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013002.D
Acq: 14 Sep 2019 18:56

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 95 Resp: 181442
Ion Ratio Lower Upper
95 100
174 83.8 0.0 170.4
176 80.6 0.0 164.6

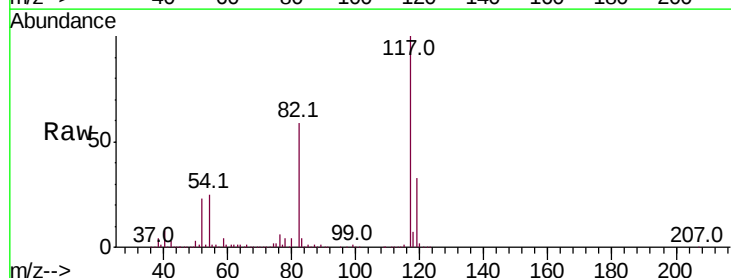


Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW

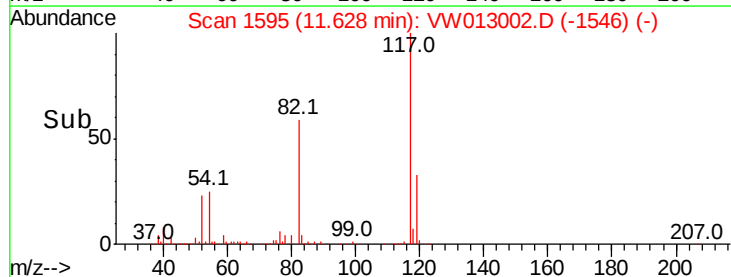
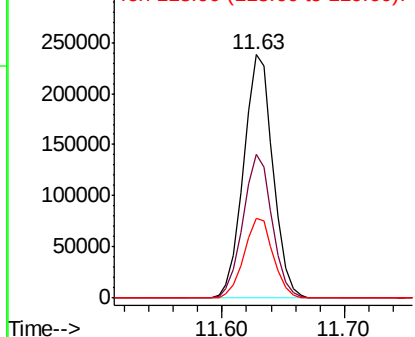


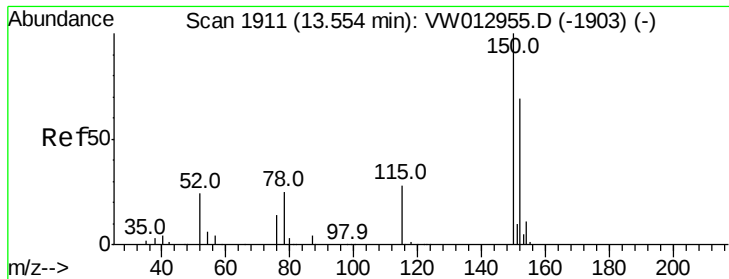
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013002.D
Acq: 14 Sep 2019 18:56

Tgt Ion: 117 Resp: 396565
Ion Ratio Lower Upper
117 100
82 58.8 46.3 69.5
119 32.6 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



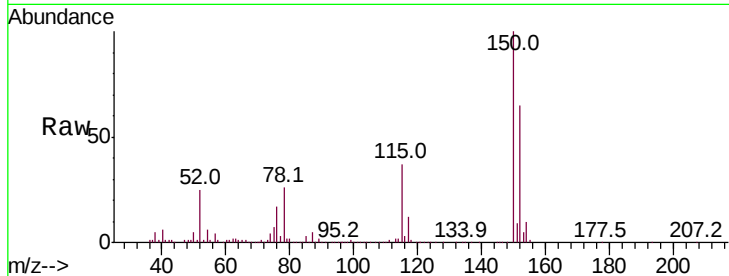


#72

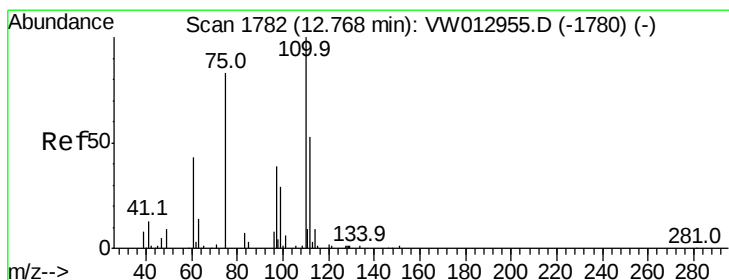
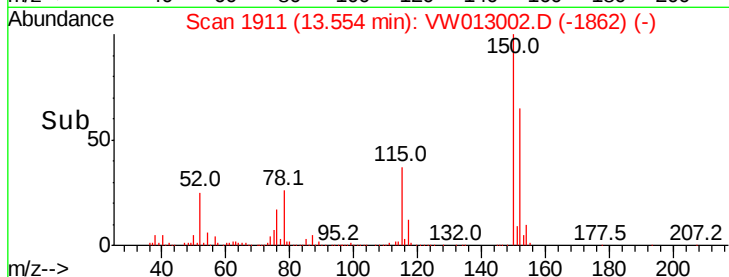
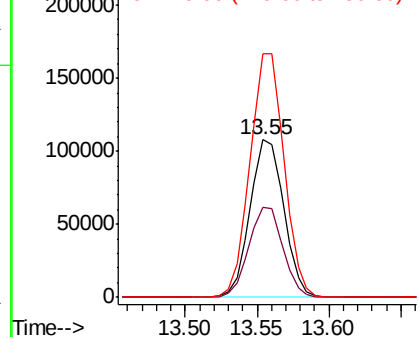
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.00 min
Lab File: VW013002.D
Acq: 14 Sep 2019 18:56

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:152 Resp: 174366
Ion Ratio Lower Upper
152 100
115 57.9 28.8 86.4
150 156.5 0.0 340.2



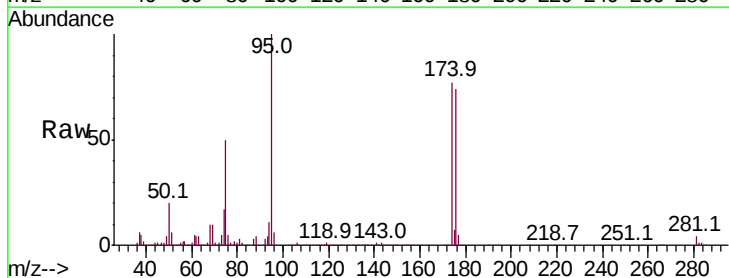
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



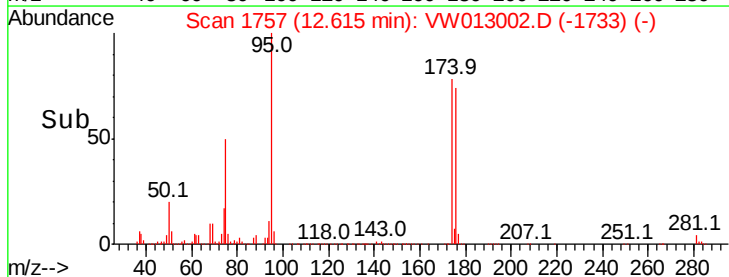
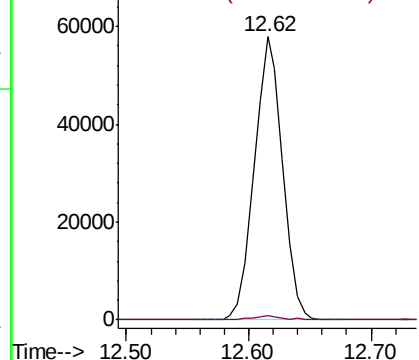
#76

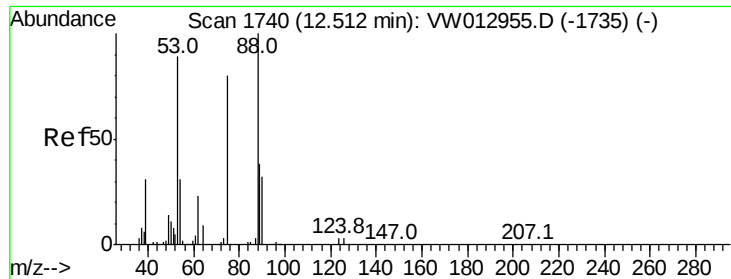
1,2,3-Trichloropropane
Concen: 60.772 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW013002.D
Acq: 14 Sep 2019 18:56

Tgt Ion: 75 Resp: 92818
Ion Ratio Lower Upper
75 100
77 1.8 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: 137.861 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013002.D

Acq: 14 Sep 2019 18:56

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 75 Resp: 92818

Ion Ratio Lower Upper

75 100

53 0.2 85.6 128.4#

89 0.0 37.2 55.8#

