

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091619\
 Data File : VW013053.D
 Acq On : 16 Sep 2019 20:17
 Operator : SY/VA
 Sample : K4661-04
 Misc : 6.75G/5ML/MSVOA_W/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 HD-02-091319

Quant Time: Sep 17 07:24:13 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	324839	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	481876	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	372297	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	149744	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	166668	55.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.10%	
35) Dibromofluoromethane	7.88	113	144227	55.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.32%	
50) Toluene-d8	10.32	98	575447	56.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.48%	
62) 4-Bromofluorobenzene	12.62	95	167522	45.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.06%	

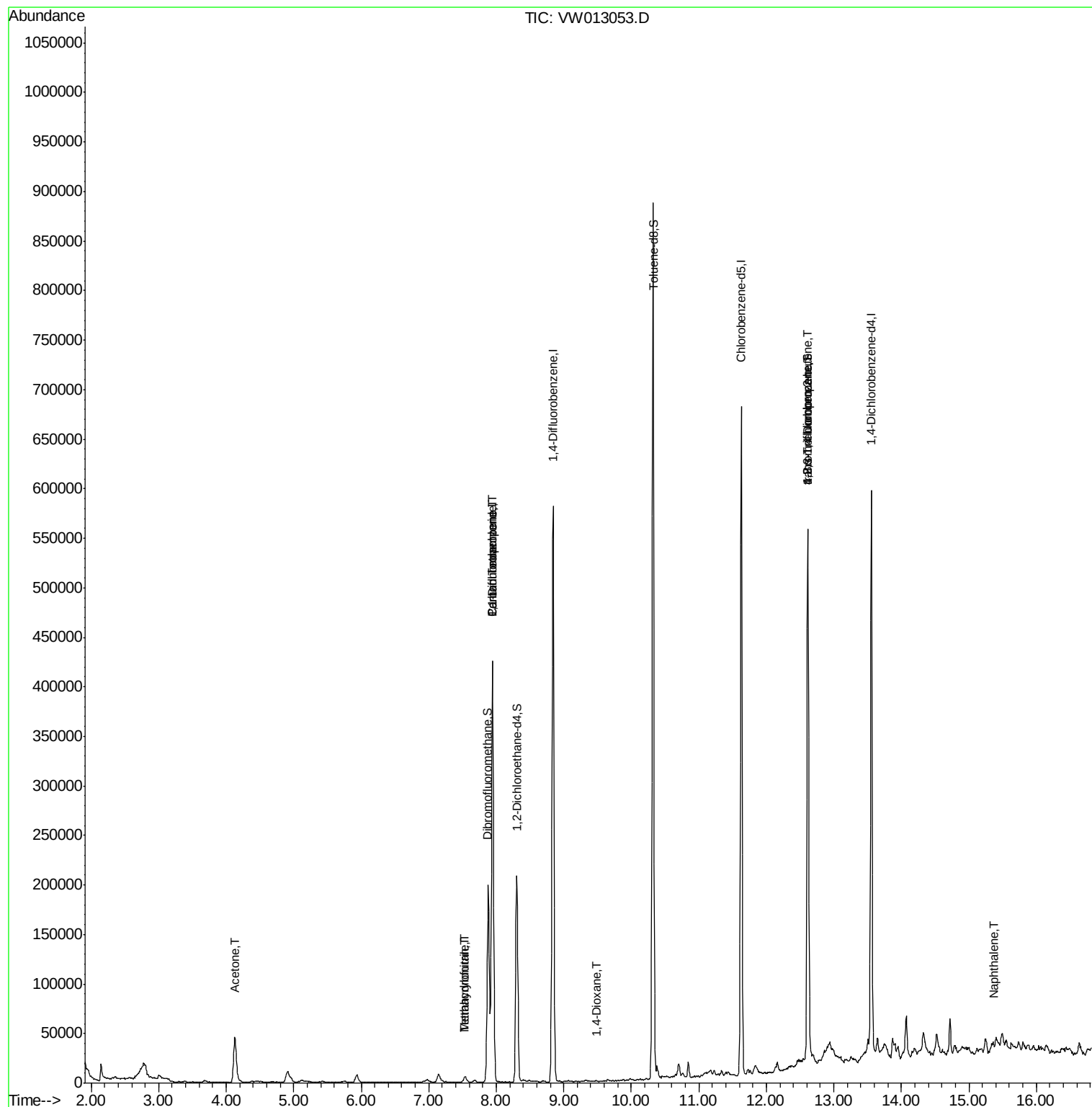
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	55	Below Cal	#	44
3) Chloromethane	2.20	50	345	Below Cal		94
11) Tert butyl alcohol	5.18	59	341	Below Cal	#	72
13) Acrolein	3.87	56	23	Below Cal	#	1
16) Acetone	4.13	43	90152	129.025	ug/l	95
20) Methylene Chloride	4.92	84	7323	Below Cal		95
26) 2,2-Dichloropropane	7.15	77	528	Below Cal	#	65
29) Tetrahydrofuran	7.53	42	5229	9.620	ug/l	98
31) Cyclohexane	7.94	56	6455	Below Cal	#	1
36) 1,1-Dichloropropene	7.94	75	23556	6.117	ug/l	51
38) Carbon Tetrachloride	7.95	117	30883	7.826	ug/l	15
41) Methacrylonitrile	7.53	41	3299	2.451	ug/l	54
49) 1,4-Dioxane	9.48	88	71	3.097	ug/l	1
76) 1,2,3-Trichloropropane	12.62	75	84889	64.720	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	84889	146.816	ug/l	7
95) Naphthalene	15.37	128	5177	1.091	ug/l	71

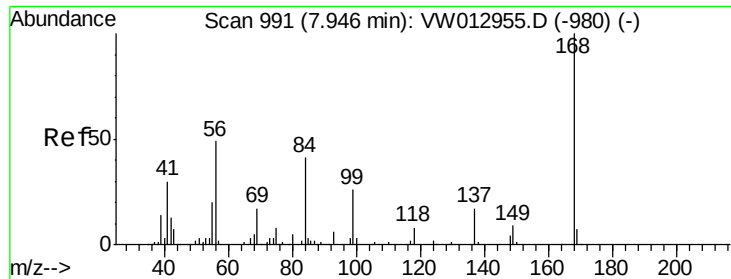
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013053.D

Acq: 16 Sep 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

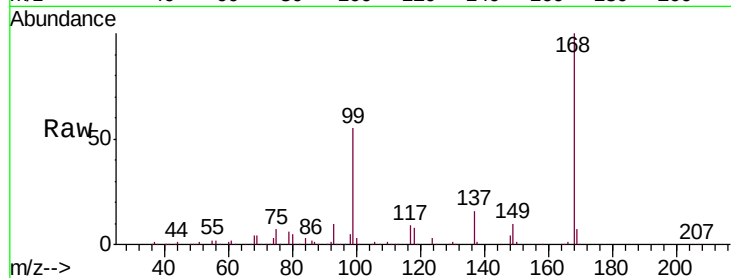
HD-02-091319

Tgt Ion:168 Resp: 324839

Ion Ratio Lower Upper

168 100

99 54.7 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

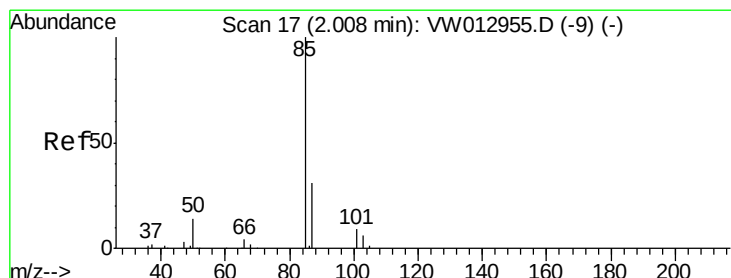
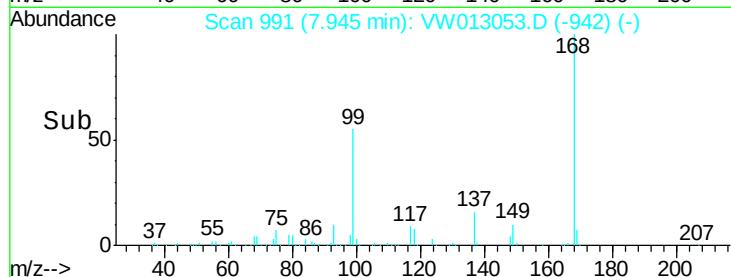
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW013053.D

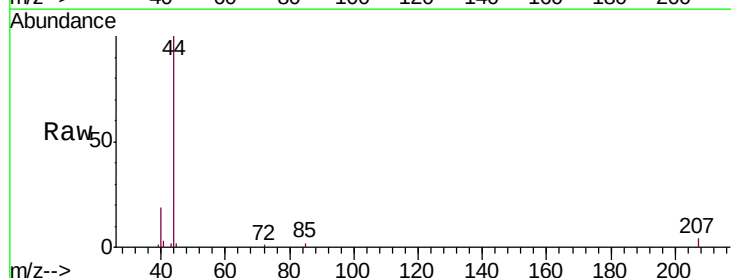
Acq: 16 Sep 2019 20:17

Tgt Ion: 85 Resp: 55

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

2.01

100

80

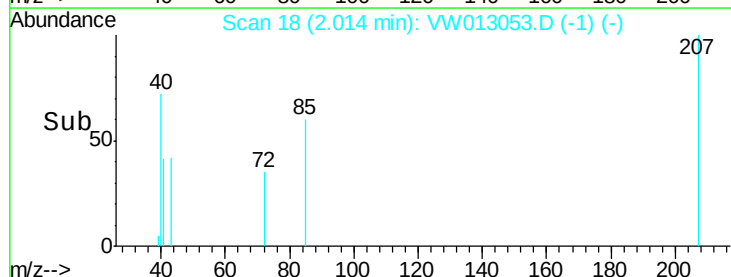
60

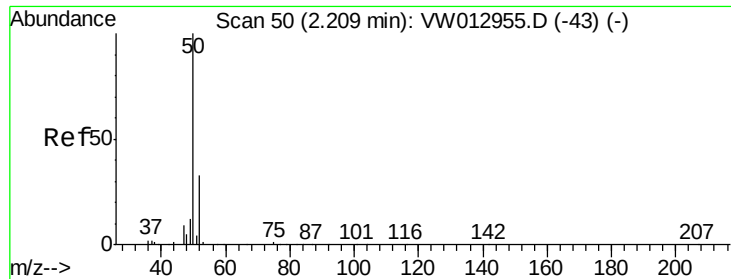
40

20

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013053.D

Acq: 16 Sep 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

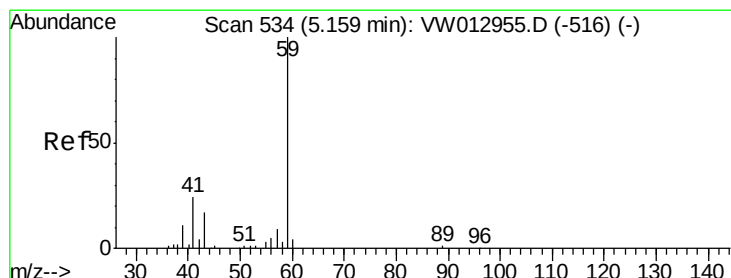
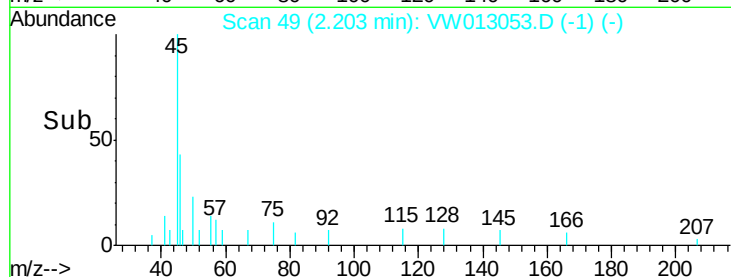
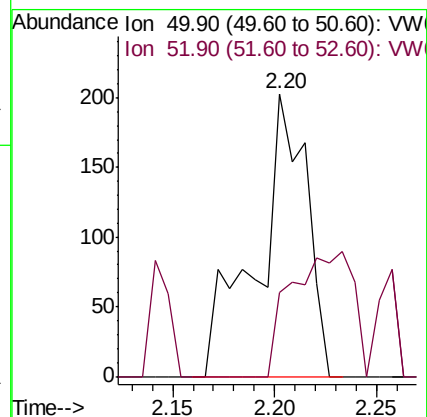
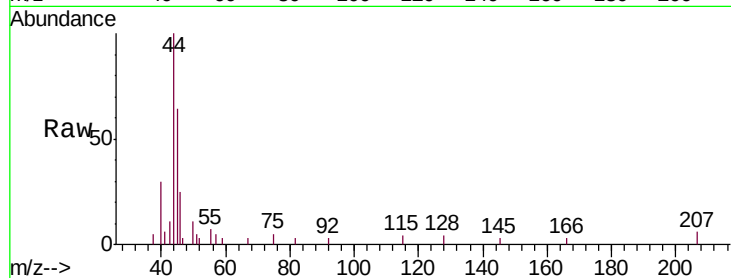
HD-02-091319

Tgt Ion: 50 Resp: 345

Ion Ratio Lower Upper

50 100

52 29.6 26.6 39.8



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.18 min Scan# 538

Delta R.T. 0.02 min

Lab File: VW013053.D

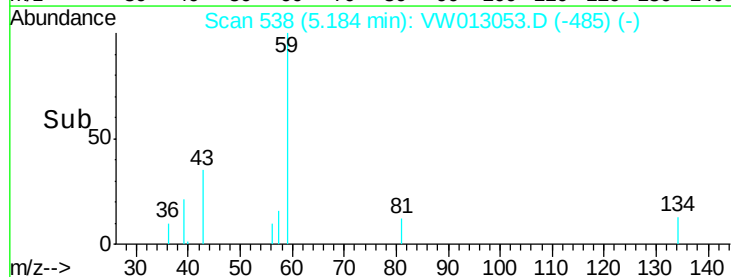
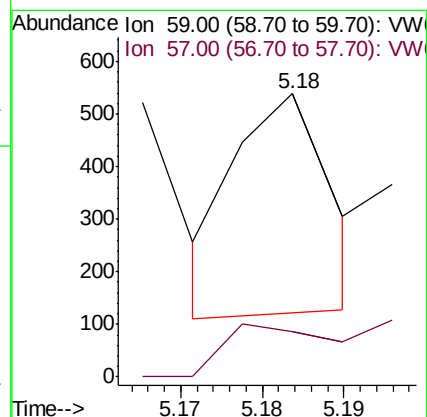
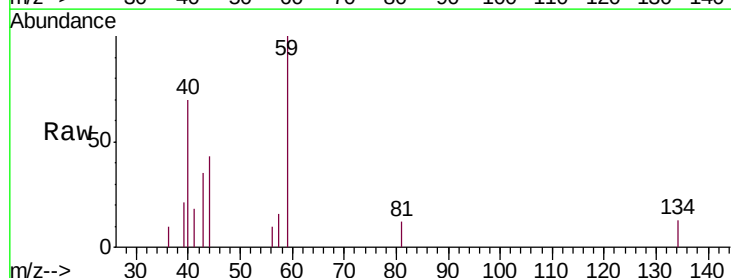
Acq: 16 Sep 2019 20:17

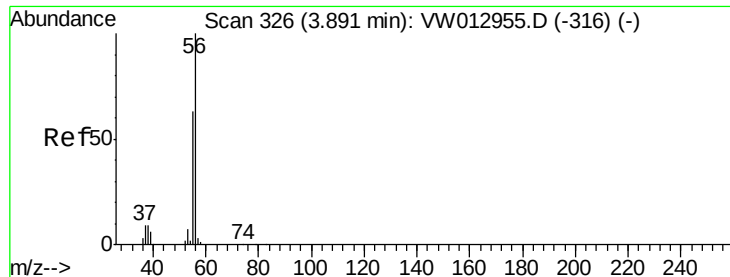
Tgt Ion: 59 Resp: 341

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: VW013053.D

Acq: 16 Sep 2019 20:17

Instrument :

MSVOA_W

ClientSampled :

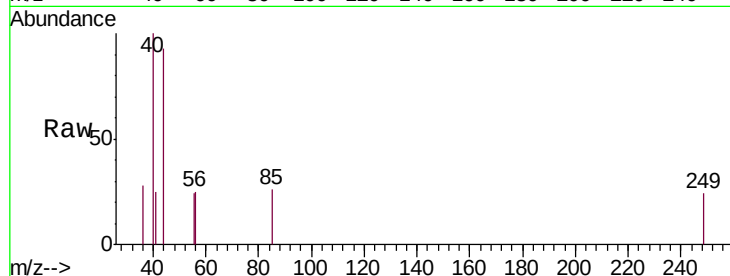
HD-02-091319

Tgt Ion: 56 Resp: 23

Ion Ratio Lower Upper

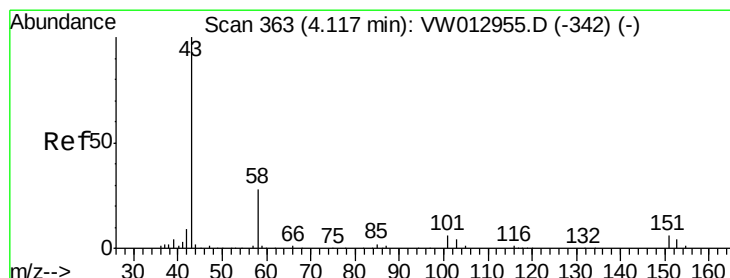
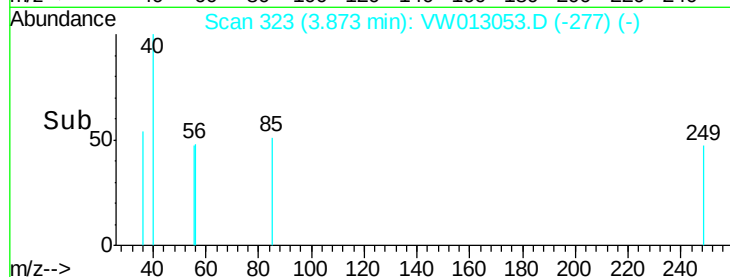
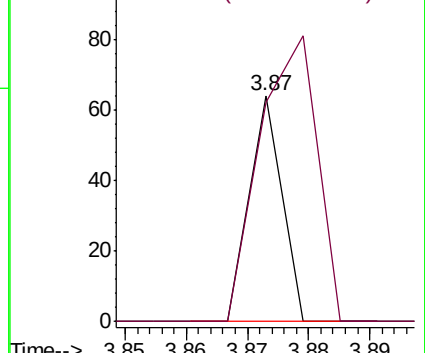
56 100

55 226.1 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 129.025 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW013053.D

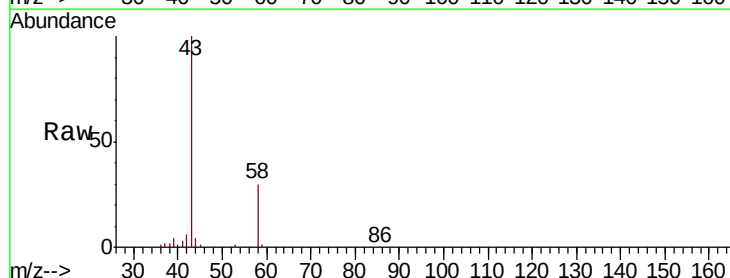
Acq: 16 Sep 2019 20:17

Tgt Ion: 43 Resp: 90152

Ion Ratio Lower Upper

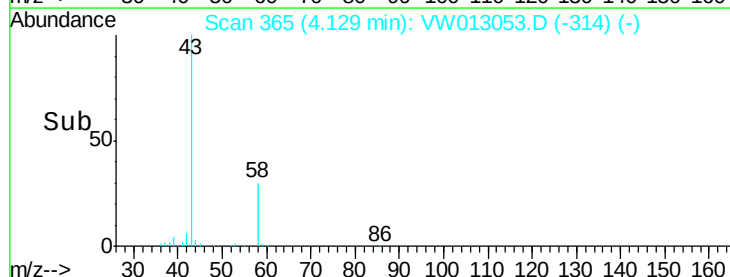
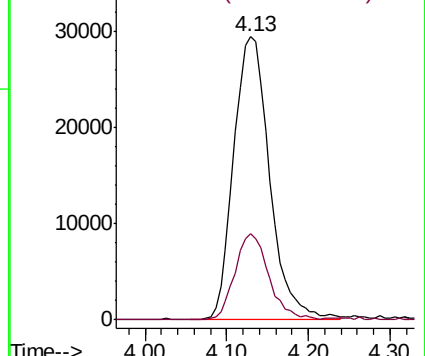
43 100

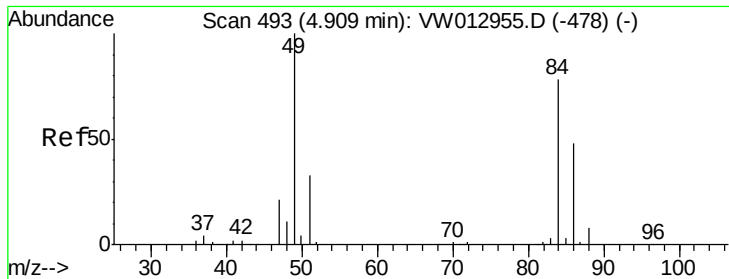
58 30.4 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW013053.D

Acq: 16 Sep 2019 20:17

Instrument :

MSVOA_W

ClientSampled :

HD-02-091319

Tgt Ion: 84 Resp: 7323

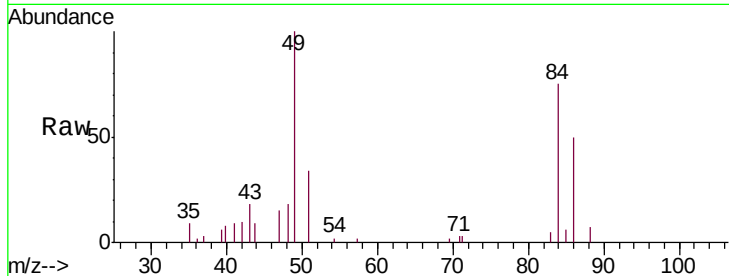
Ion Ratio Lower Upper

84 100

49 132.7 102.0 153.0

51 45.5 34.0 51.0

86 66.0 48.5 72.7

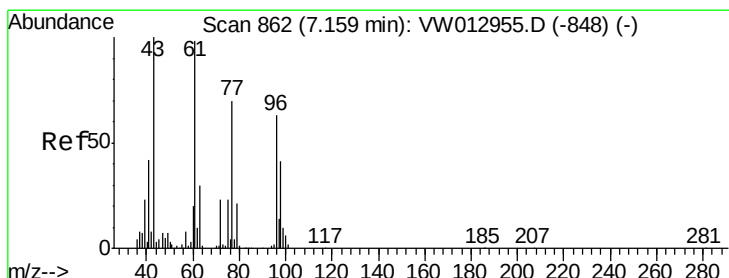
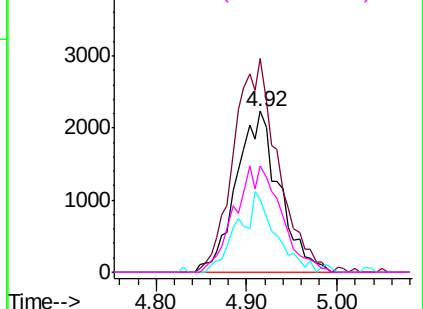
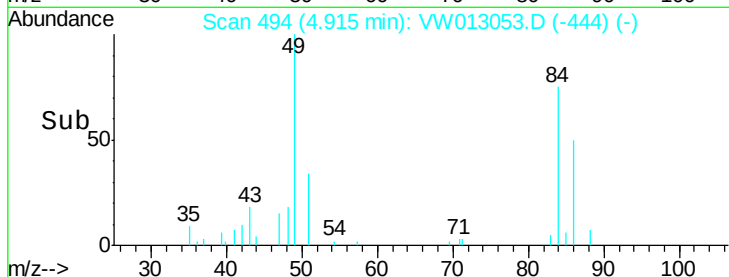


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.15 min Scan# 860

Delta R.T. -0.01 min

Lab File: VW013053.D

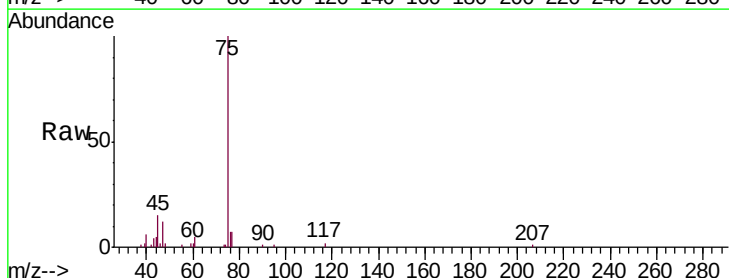
Acq: 16 Sep 2019 20:17

Tgt Ion: 77 Resp: 528

Ion Ratio Lower Upper

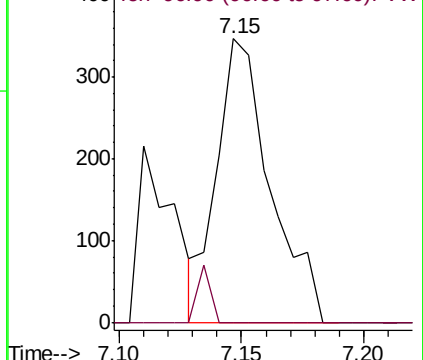
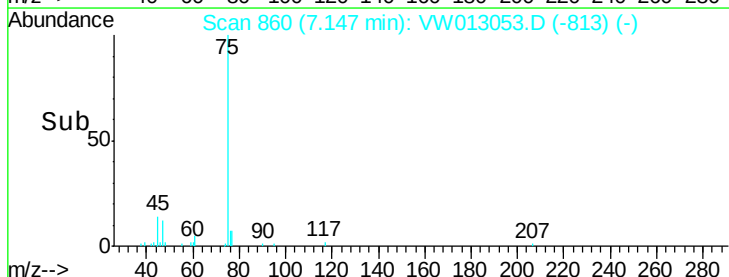
77 100

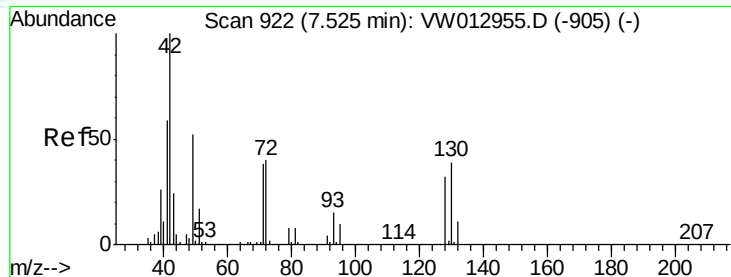
97 4.9 10.7 32.1#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

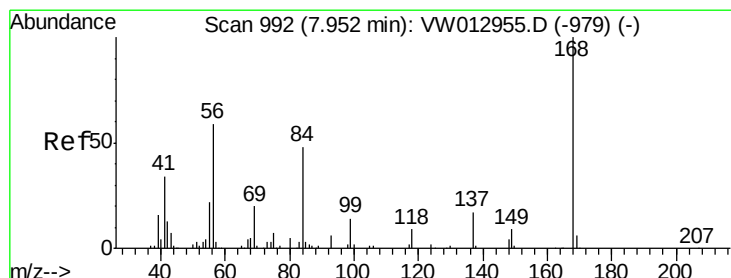
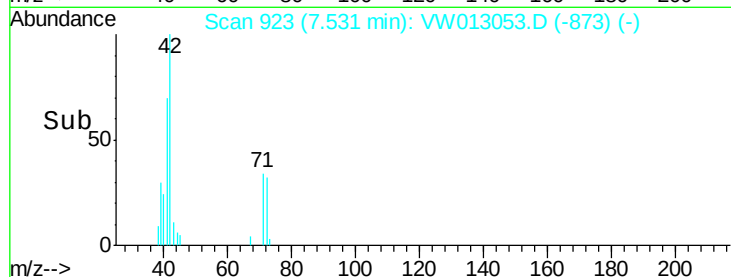
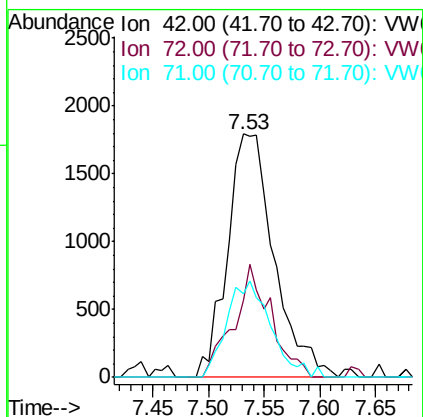
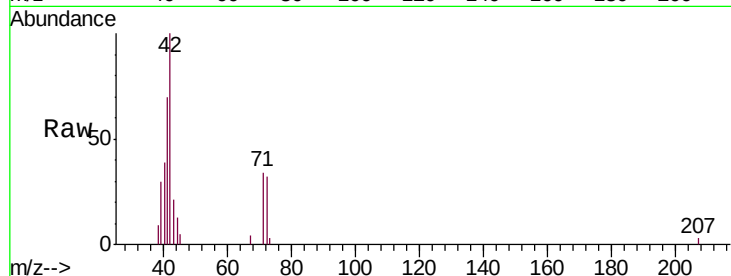




#29
Tetrahydrofuran
Concen: 9.620 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW013053.D
Acq: 16 Sep 2019 20:17

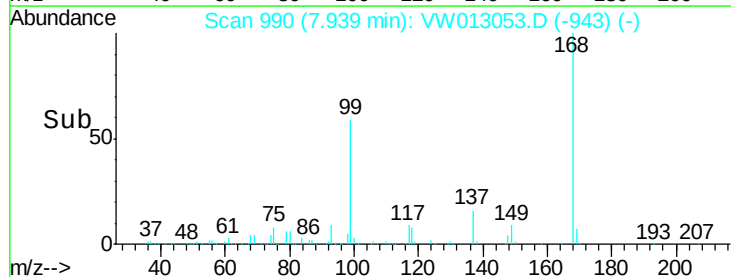
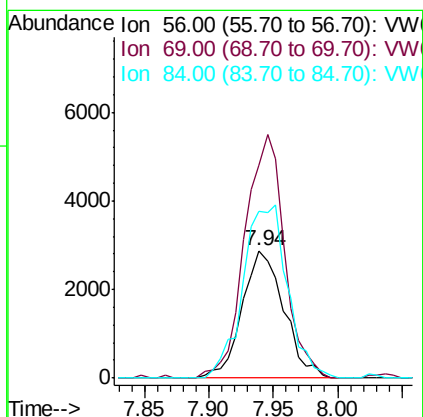
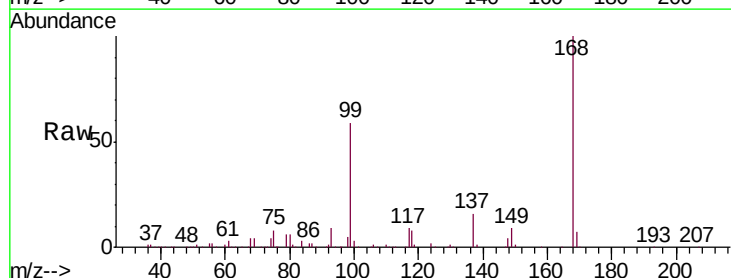
Instrument :
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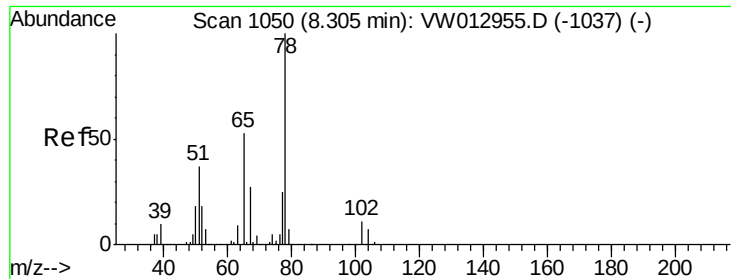
Tgt Ion: 42 Resp: 5229
Ion Ratio Lower Upper
42 100
72 37.0 31.4 47.0
71 37.3 29.8 44.8



#31
Cyclohexane
Concen: Below Cal
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW013053.D
Acq: 16 Sep 2019 20:17

Tgt Ion: 56 Resp: 6455
Ion Ratio Lower Upper
56 100
69 167.4 27.0 40.6#
84 131.3 66.2 99.2#

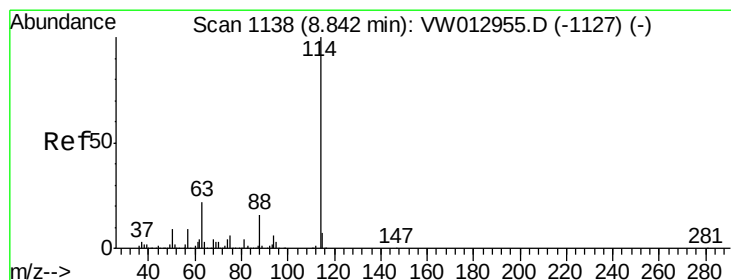
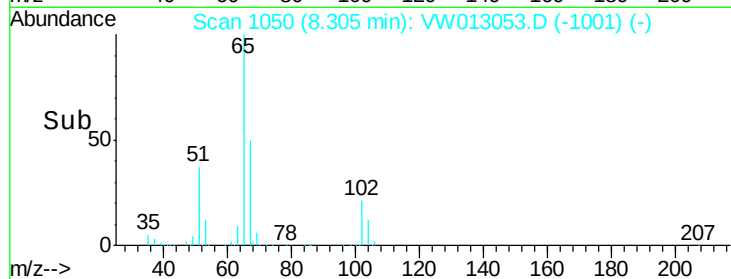
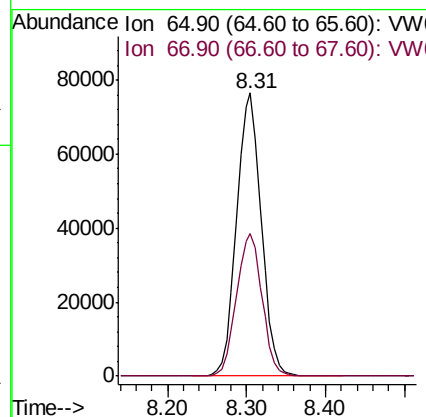
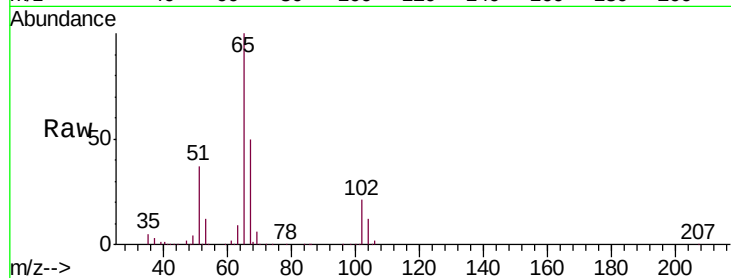




#33
 1,2-Dichloroethane-d4
 Concen: 55.554 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW013053.D
 Acq: 16 Sep 2019 20:17

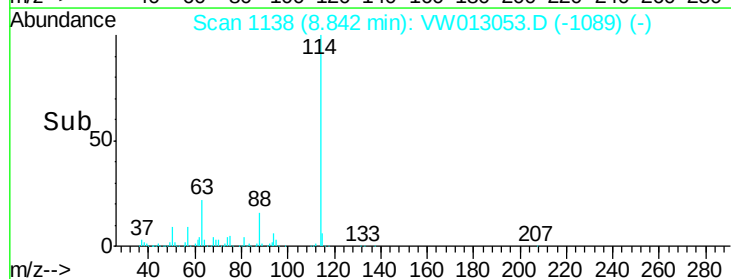
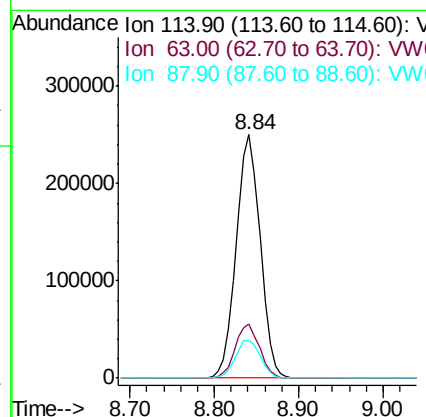
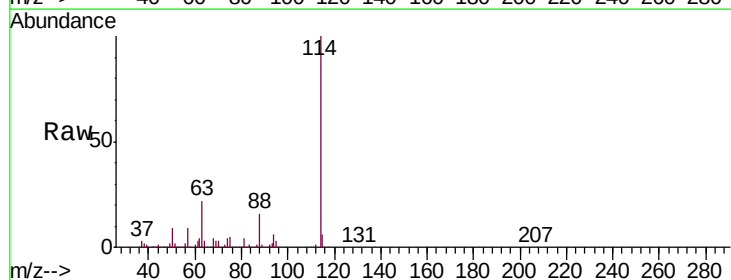
Instrument :
 MSVOA_W
 ClientSampleId :
 HD-02-091319

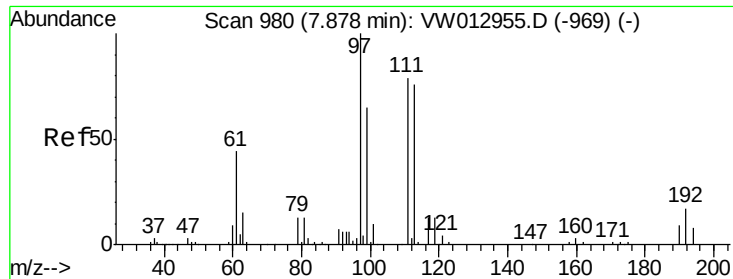
Tgt Ion: 65 Resp: 166668
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013053.D
 Acq: 16 Sep 2019 20:17

Tgt Ion: 114 Resp: 481876
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 43.4
 88 15.6 0.0 31.6

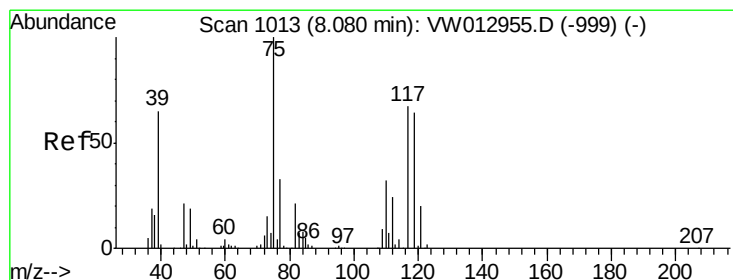
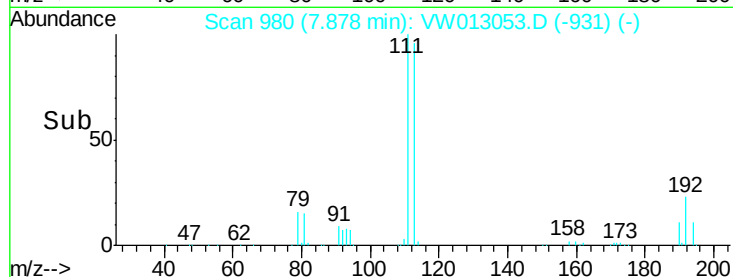
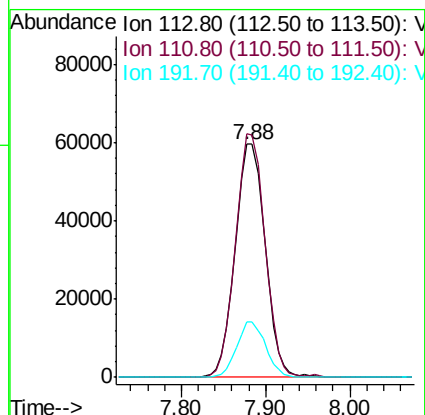
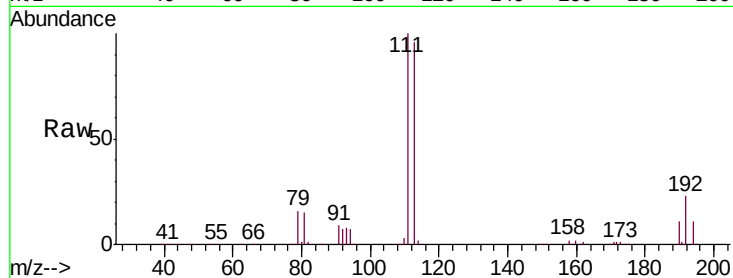




#35
 Dibromofluoromethane
 Concen: 55.160 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW013053.D
 Acq: 16 Sep 2019 20:17

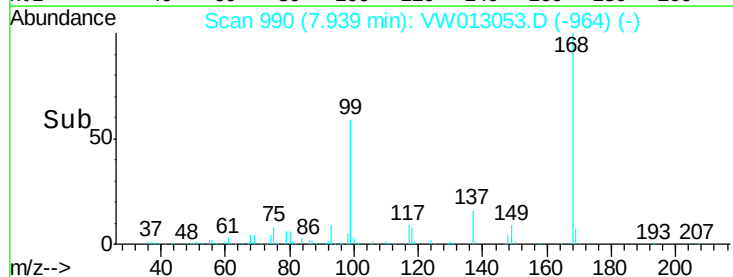
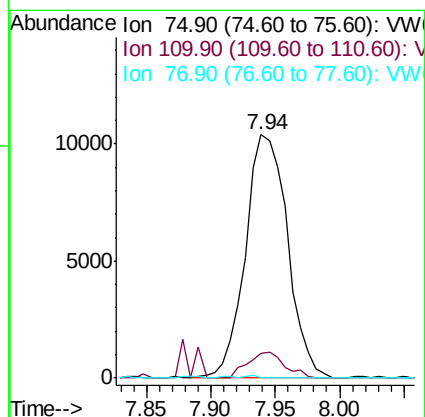
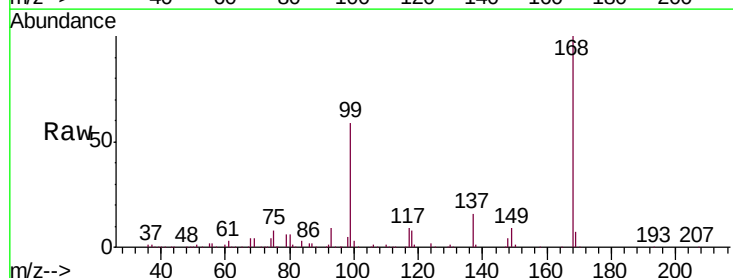
Instrument :
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 HD-02-091319

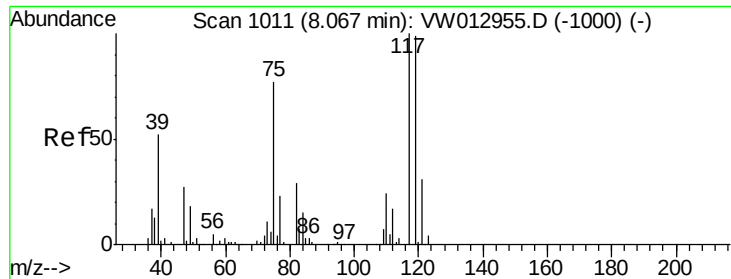
Tgt Ion:113 Resp: 144227
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.8 124.2
 192 22.8 17.8 26.8



#36
 1,1-Dichloropropene
 Concen: 6.117 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW013053.D
 Acq: 16 Sep 2019 20:17

Tgt Ion: 75 Resp: 23556
 Ion Ratio Lower Upper
 75 100
 110 9.5 16.4 49.1#
 77 0.3 25.1 37.7#

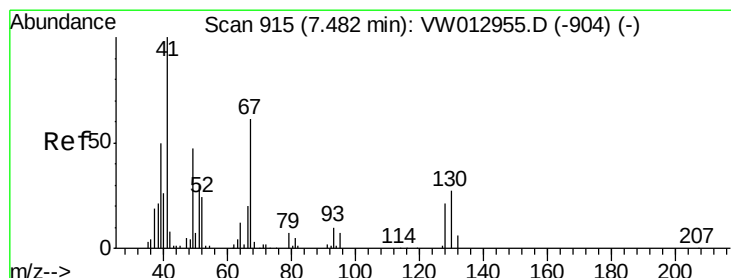
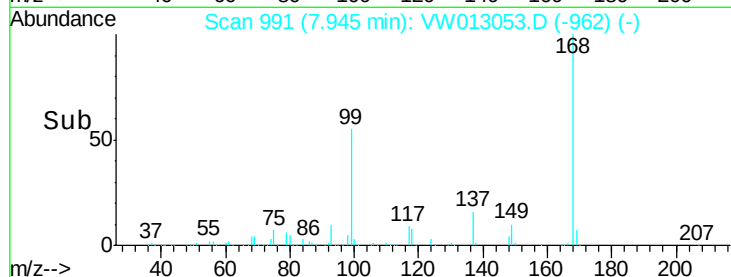
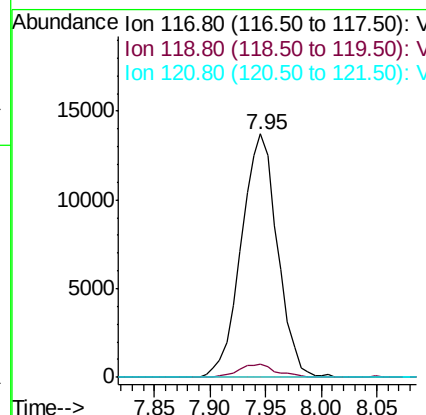
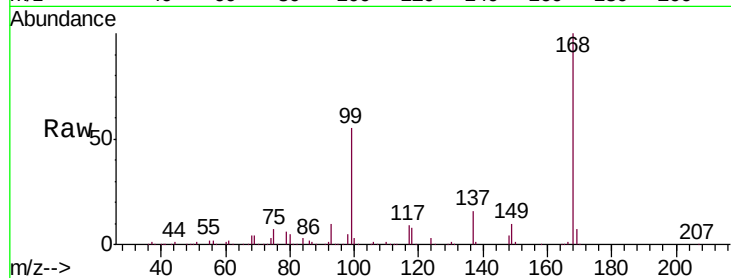




#38
Carbon Tetrachloride
Concen: 7.826 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW013053.D
Acq: 16 Sep 2019 20:17

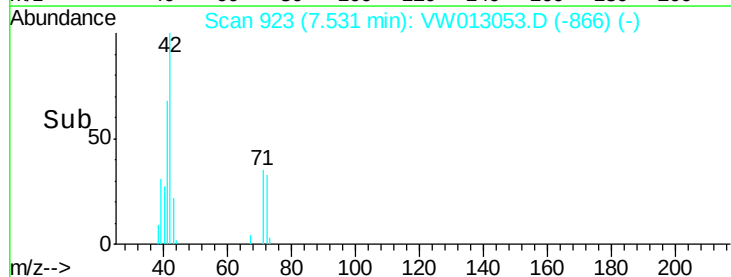
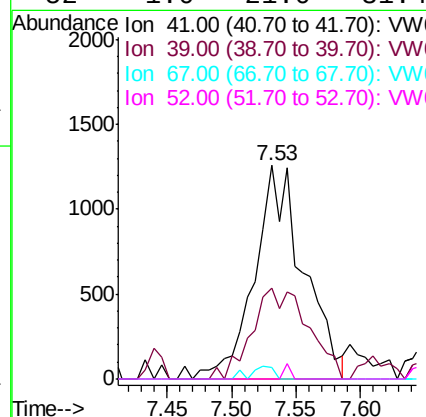
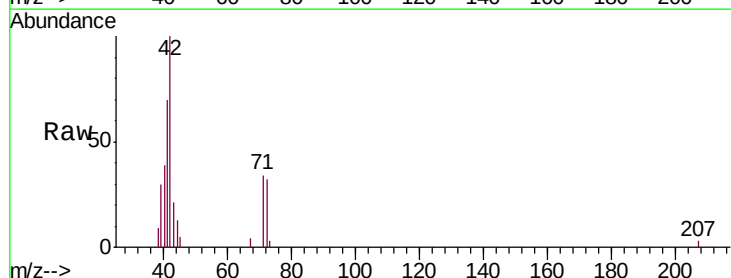
Instrument :
MSVOA_W
ClientSampleId :
HD-02-091319

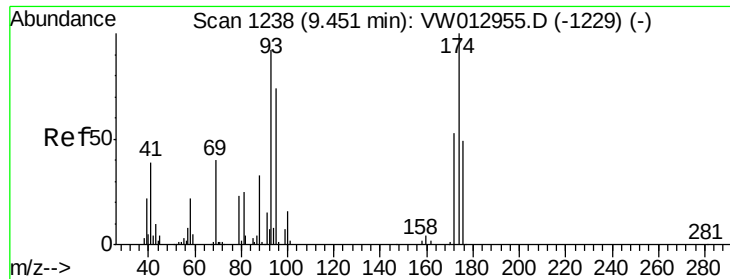
Tgt Ion: 117 Resp: 30883
Ion Ratio Lower Upper
117 100
119 5.3 79.4 119.0#
121 0.0 24.6 36.8#



#41
Methacrylonitrile
Concen: 2.451 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.05 min
Lab File: VW013053.D
Acq: 16 Sep 2019 20:17

Tgt Ion: 41 Resp: 3299
Ion Ratio Lower Upper
41 100
39 49.0 48.2 72.4
67 2.7 47.5 71.3#
52 1.0 21.0 31.4#





#49

1,4-Dioxane

Concen: 3.097 ug/l

RT: 9.48 min Scan# 1242

Delta R.T. 0.02 min

Lab File: VW013053.D

Acq: 16 Sep 2019 20:17

Instrument :

MSVOA_W

ClientSampled :

HD-02-091319

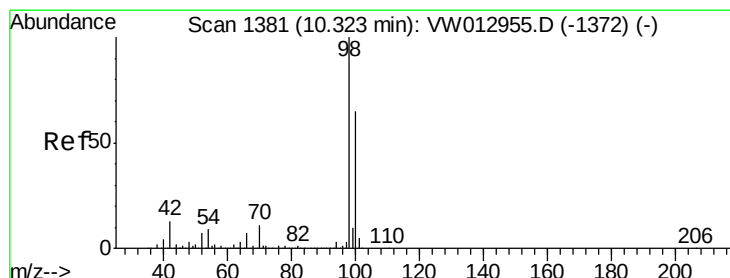
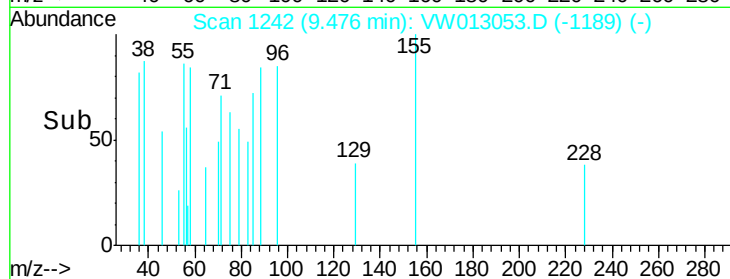
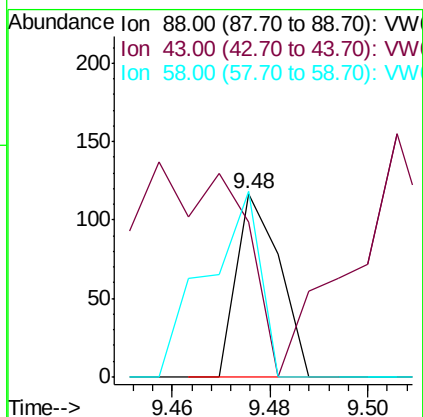
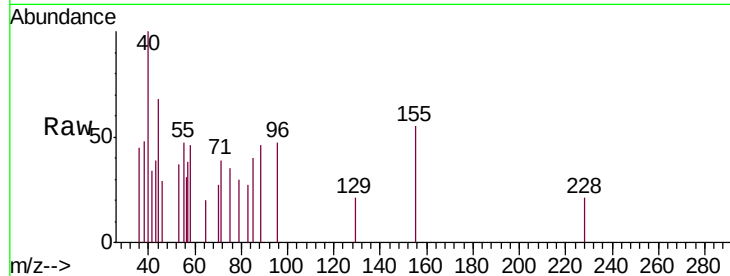
Tgt Ion: 88 Resp: 71

Ion Ratio Lower Upper

88 100

43 288.7 31.3 46.9#

58 126.8 60.2 90.2#



#50

Toluene-d8

Concen: 56.242 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013053.D

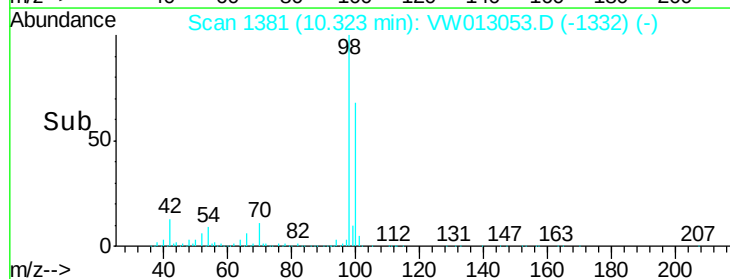
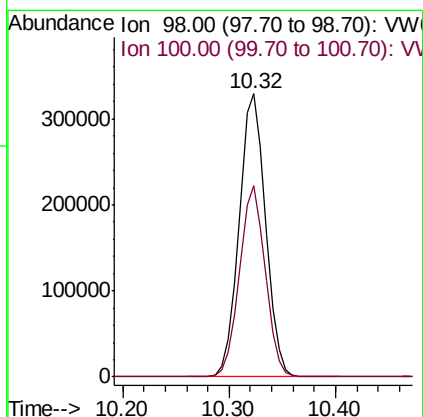
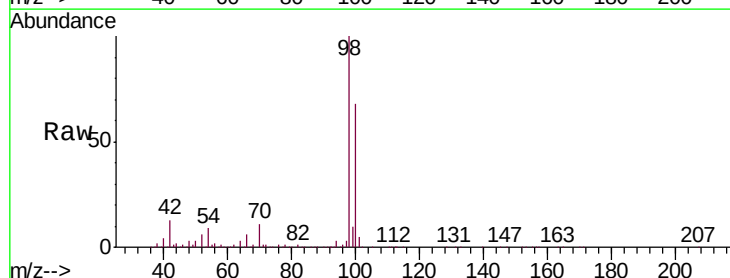
Acq: 16 Sep 2019 20:17

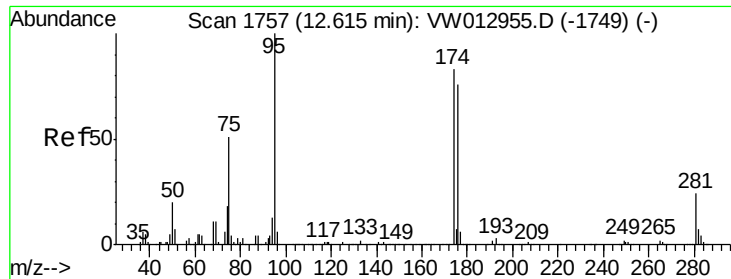
Tgt Ion: 98 Resp: 575447

Ion Ratio Lower Upper

98 100

100 65.9 52.1 78.1





#62

4-Bromofluorobenzene

Concen: 45.534 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013053.D

Acq: 16 Sep 2019 20:17

Instrument :

MSVOA_W

ClientSampled :

HD-02-091319

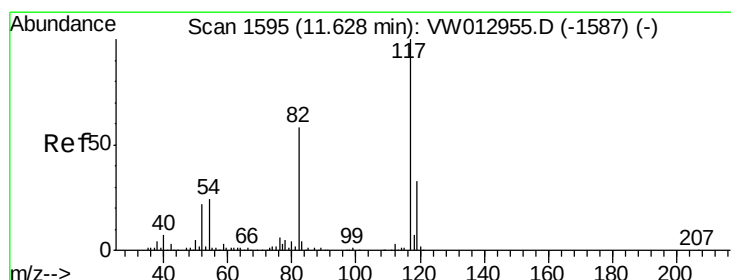
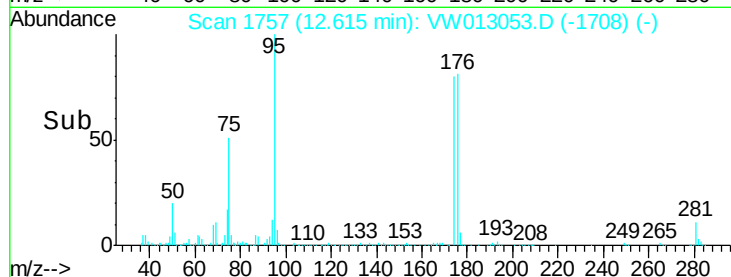
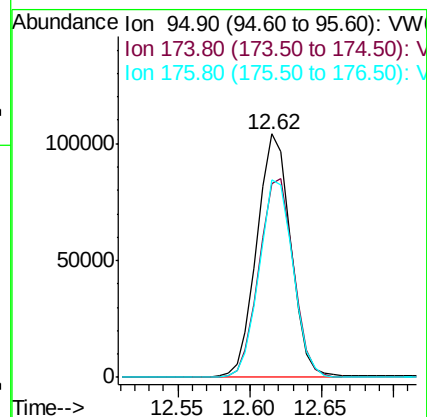
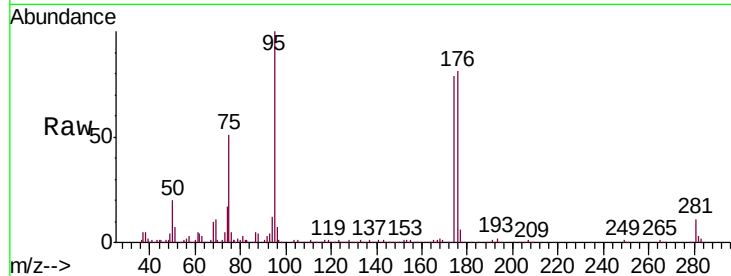
Tgt Ion: 95 Resp: 167522

Ion Ratio Lower Upper

95 100

174 83.6 0.0 170.4

176 81.6 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: VW013053.D

Acq: 16 Sep 2019 20:17

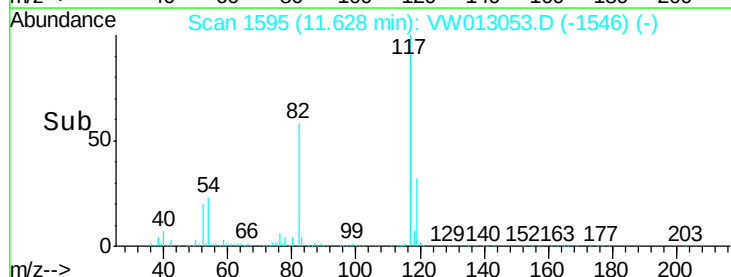
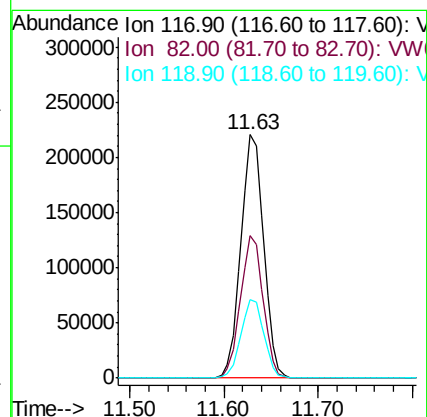
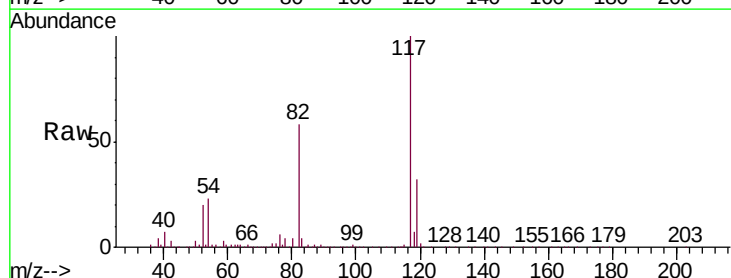
Tgt Ion: 117 Resp: 372297

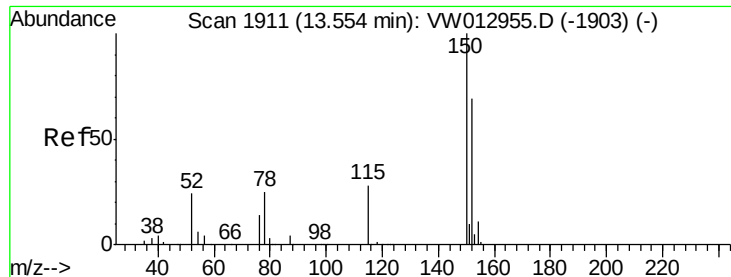
Ion Ratio Lower Upper

117 100

82 58.5 46.3 69.5

119 32.4 26.2 39.4



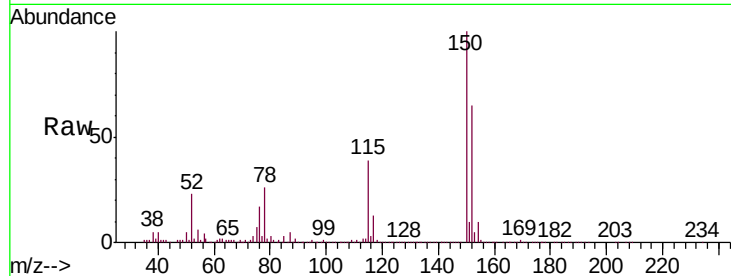


#72

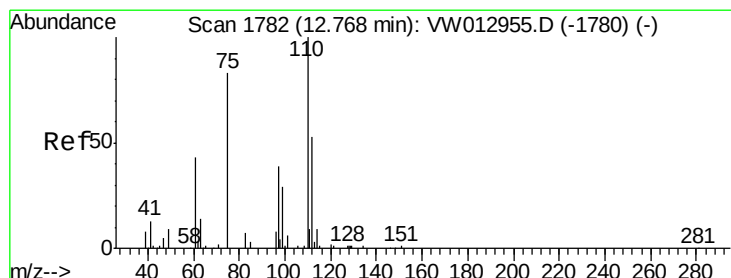
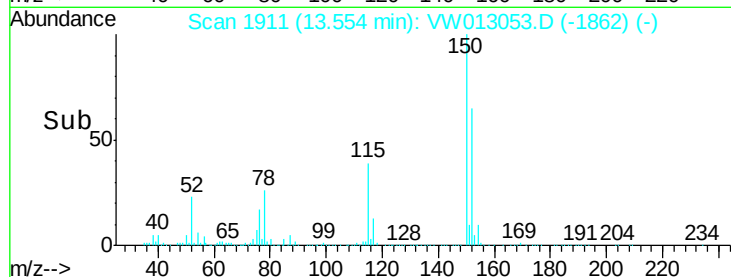
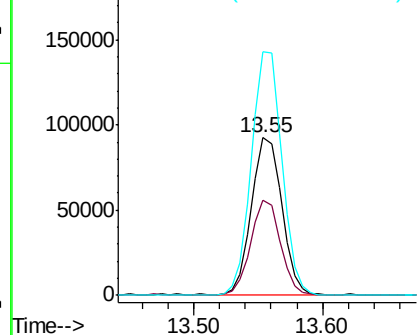
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.00 min
Lab File: VW013053.D
Acq: 16 Sep 2019 20:17

Instrument :
MSVOA_W
ClientSampleId :
HD-02-091319

Tgt Ion:152 Resp: 149744
Ion Ratio Lower Upper
152 100
115 58.8 28.8 86.4
150 155.6 0.0 340.2



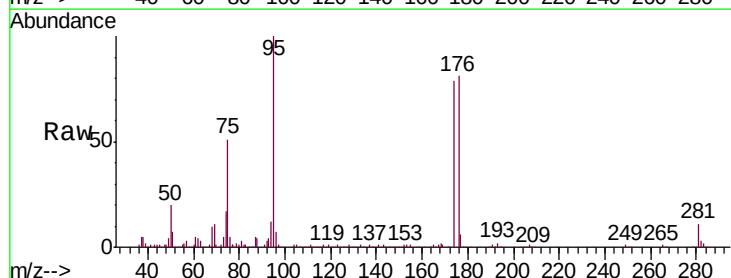
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



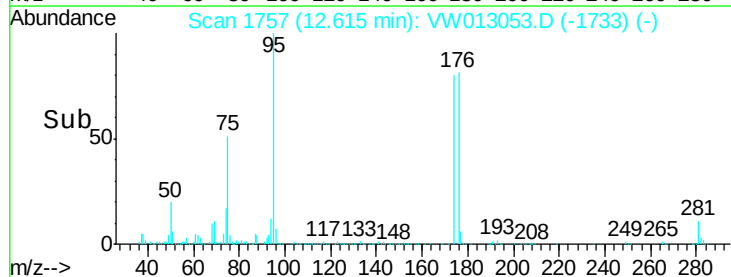
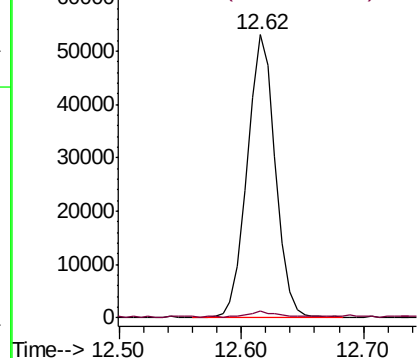
#76

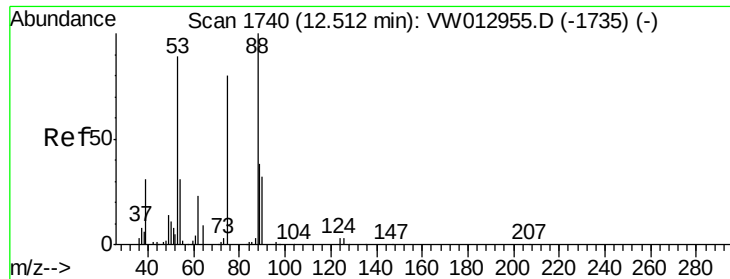
1,2,3-Trichloropropane
Concen: 64.720 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW013053.D
Acq: 16 Sep 2019 20:17

Tgt Ion: 75 Resp: 84889
Ion Ratio Lower Upper
75 100
77 2.3 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: 146.816 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013053.D

Acq: 16 Sep 2019 20:17

Instrument :

MSVOA_W

ClientSampleId :

HD-02-091319

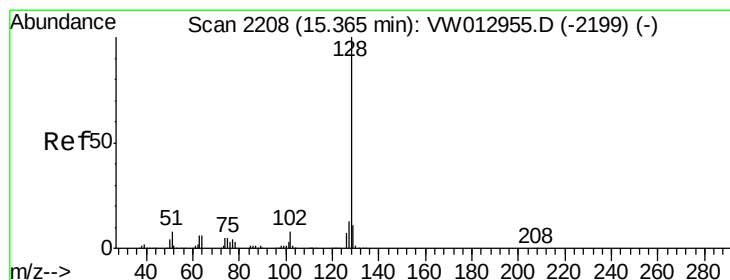
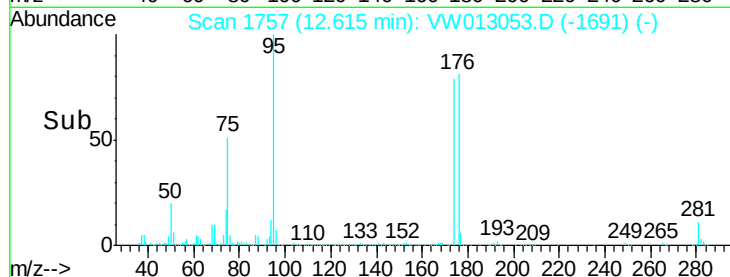
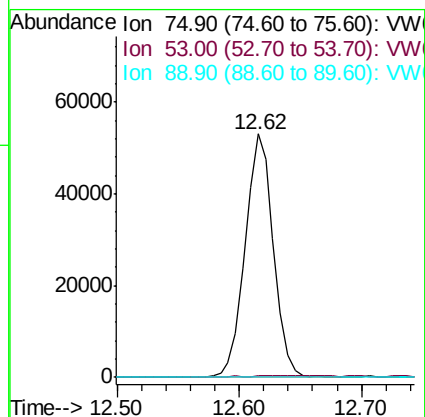
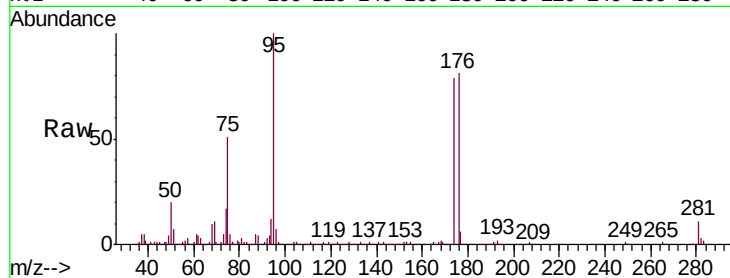
Tgt Ion: 75 Resp: 84889

Ion Ratio Lower Upper

75 100

53 0.2 85.6 128.4#

89 0.4 37.2 55.8#



#95

Naphthalene

Concen: 1.091 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW013053.D

Acq: 16 Sep 2019 20:17

Tgt Ion: 128 Resp: 5177

Ion Ratio Lower Upper

128 100

127 32.7 11.0 16.6#

129 13.1 8.6 12.8#

