

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112219\
 Data File : VX013567.D
 Acq On : 23 Nov 2019 05:09
 Operator : JC/SP
 Sample : K5968-07 50X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-118.5T-20191121

Quant Time: Nov 25 00:34:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 07:06:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	616576	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1007587	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	915644	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	414943	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	375122	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
35) Dibromofluoromethane	5.49	113	308094	48.75	ug/l	0.00
Spiked Amount			Recovery	=	97.50%	
50) Toluene-d8	8.71	98	1213411	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
62) 4-Bromofluorobenzene	11.14	95	403435	46.92	ug/l	0.00
Spiked Amount			Recovery	=	93.84%	

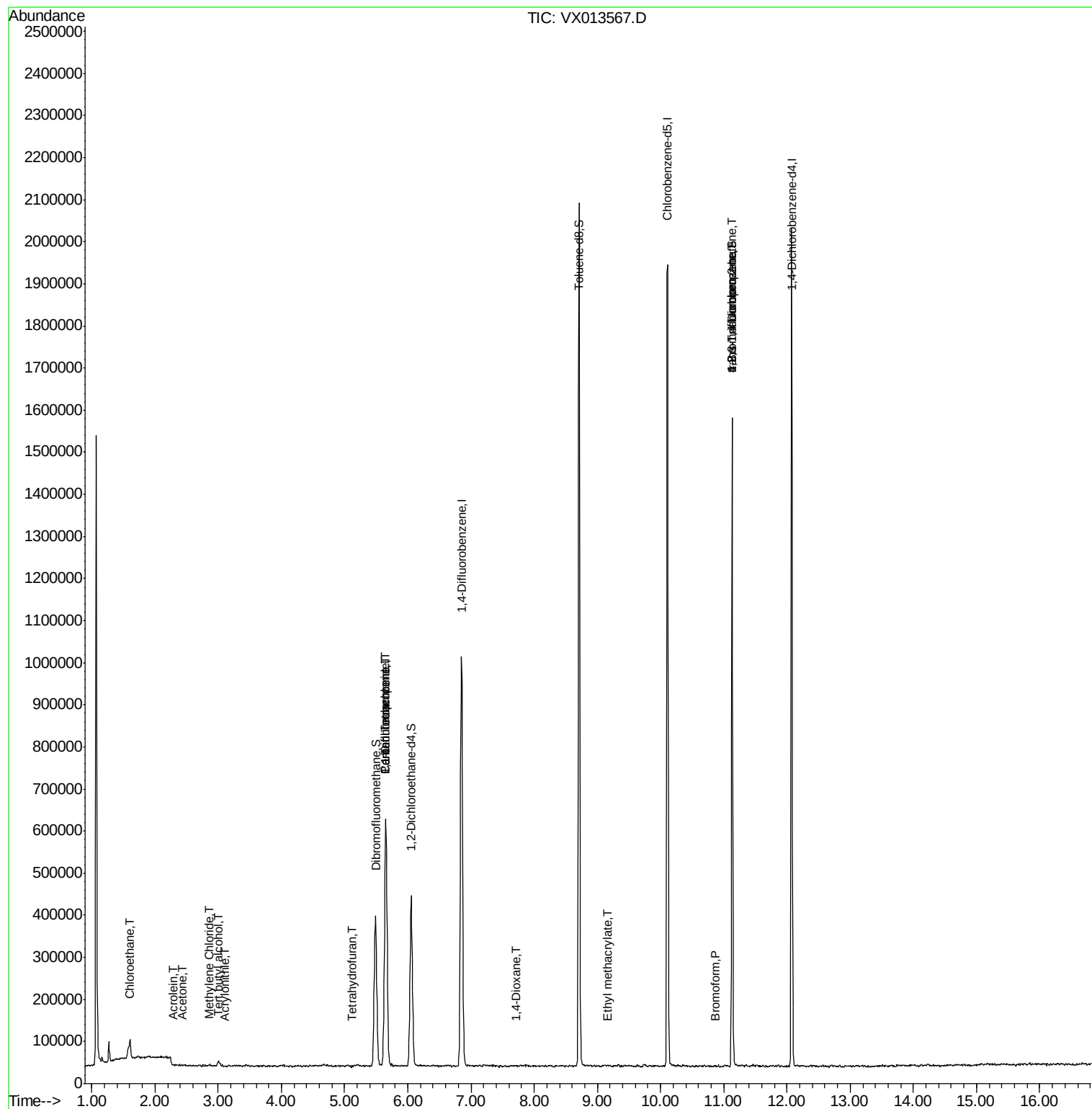
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.59	64	8734	0.564	ug/l #	58
11) Tert butyl alcohol	3.00	59	7919	4.113	ug/l #	94
13) Acrolein	2.28	56	933	0.894	ug/l #	59
15) Acrylonitrile	3.11	53	1039	0.289	ug/l #	84
16) Acetone	2.44	43	1296	0.356	ug/l #	45
20) Methylene Chloride	2.85	84	3179	0.472	ug/l #	68
29) Tetrahydrofuran	5.12	42	671	0.204	ug/l #	70
36) 1,1-Dichloropropene	5.65	75	43714	5.057	ug/l #	51
38) Carbon Tetrachloride	5.65	117	52675	6.232	ug/l #	16
49) 1,4-Dioxane	7.72	88	278	1.462	ug/l #	1
56) Ethyl methacrylate	9.15	69	329	1.590	ug/l #	1
71) Bromoform	10.87	173	338	3.253	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	199489	23.670	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	199489	60.925	ug/l #	9

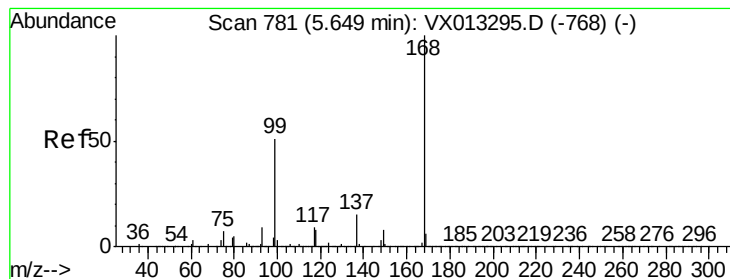
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

Instrument :

MSVOA_X

ClientSampleId :

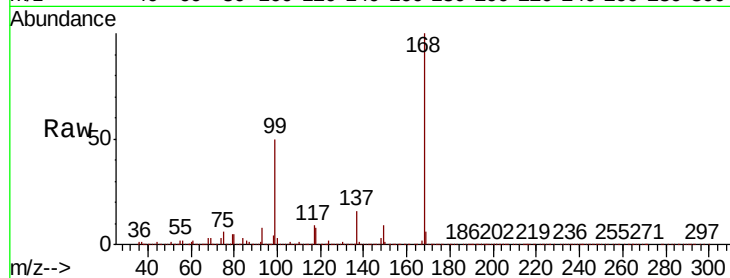
MH-118.5T-20191121

Tot Ion:168 Resp: 616576

Ion Ratio Lower Upper

168 100

99 49.8 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

150000

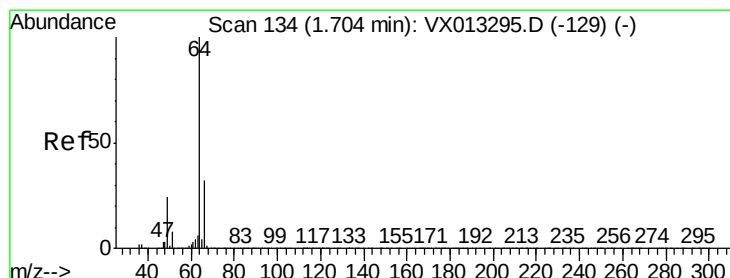
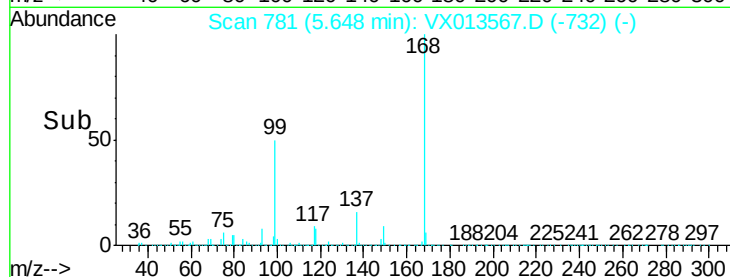
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.564 ug/l

RT: 1.59 min Scan# 115

Delta R.T. -0.12 min

Lab File: VX013567.D

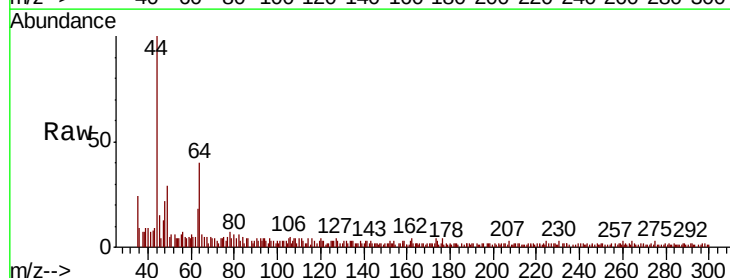
Acq: 23 Nov 2019 05:09

Tgt Ion: 64 Resp: 8734

Ion Ratio Lower Upper

64 100

66 8.8 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

4000

3000

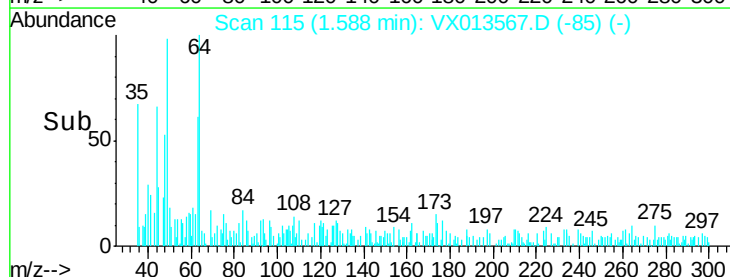
2000

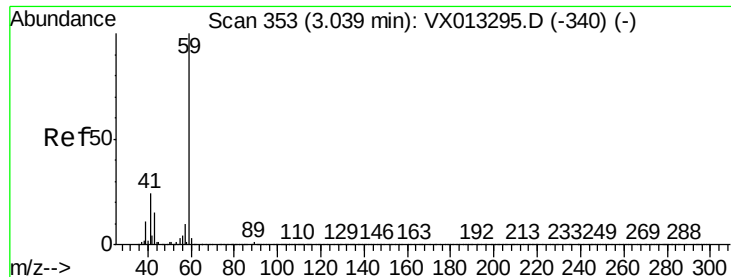
1000

0

Time-->

1.45 1.50 1.55 1.60 1.65

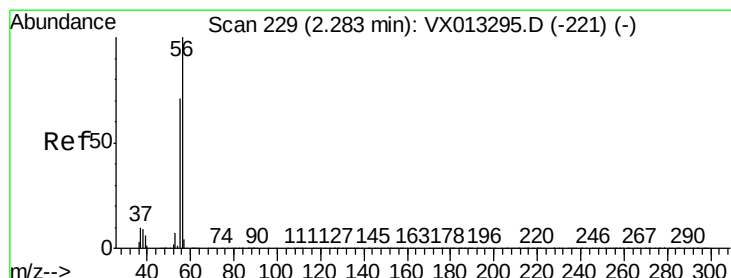
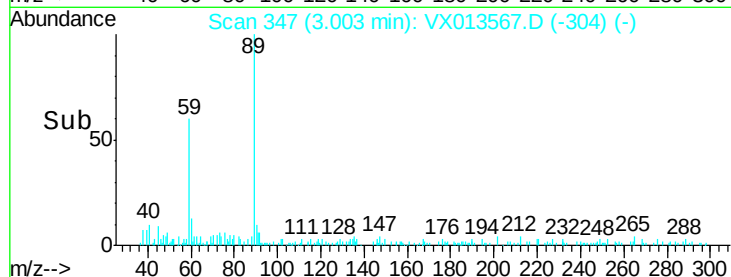
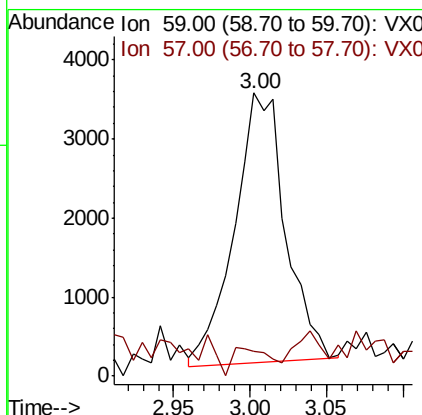
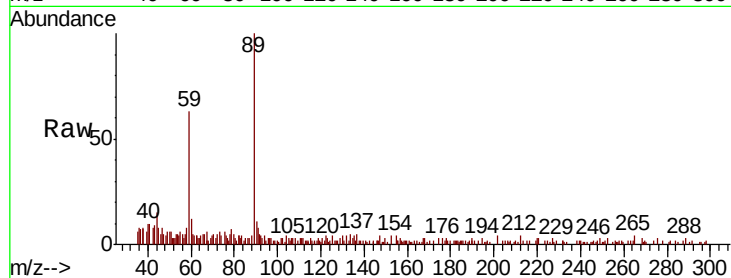




#11
Tert butyl alcohol
Concen: 4.113 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX013567.D
Acq: 23 Nov 2019 05:09

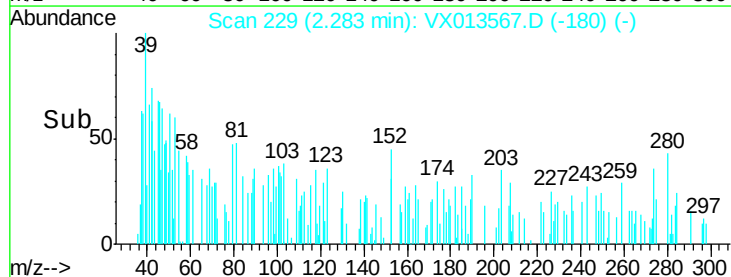
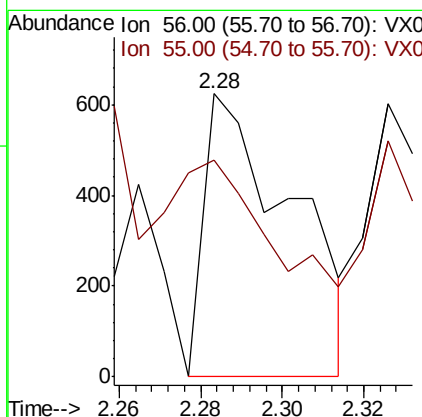
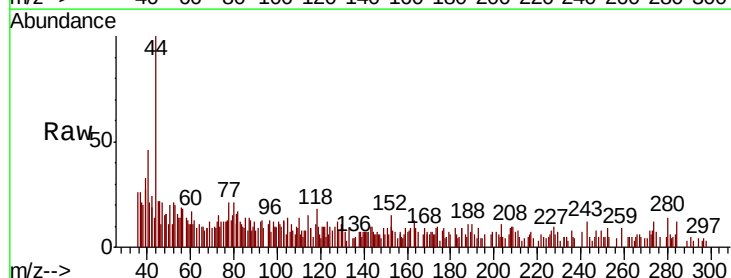
Instrument :
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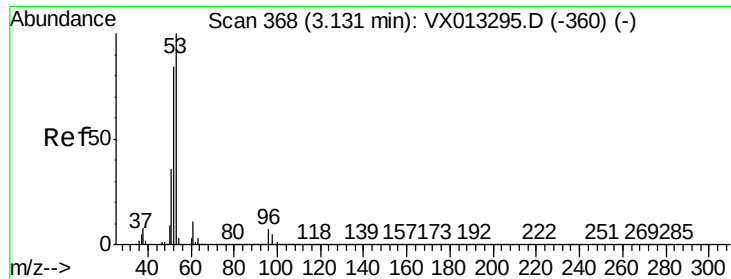
Tot Ion: 59 Resp: 7919
Ion Ratio Lower Upper
59 100
57 7.9 8.0 12.0#



#13
Acrolein
Concen: 0.894 ug/l
RT: 2.28 min Scan# 229
Delta R.T. -0.00 min
Lab File: VX013567.D
Acq: 23 Nov 2019 05:09

Tgt Ion: 56 Resp: 933
Ion Ratio Lower Upper
56 100
55 37.3 57.4 86.0#





#15

Acrylonitrile

Concen: 0.289 ug/l

RT: 3.11 min Scan# 365

Delta R.T. -0.02 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

Instrument :

MSVOA_X

ClientSampleId :

MH-118.5T-20191121

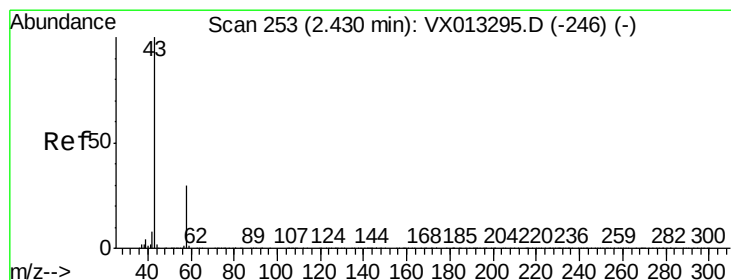
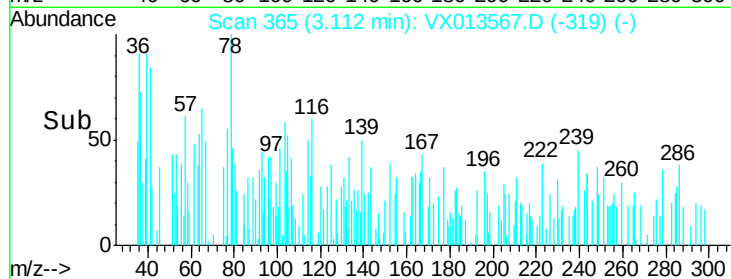
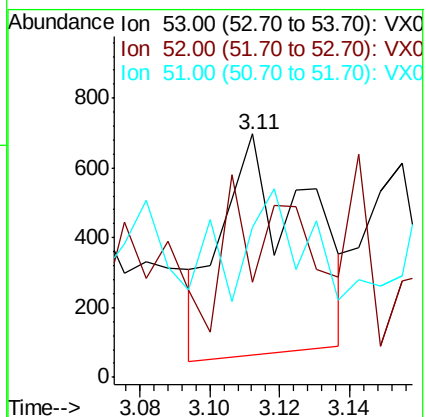
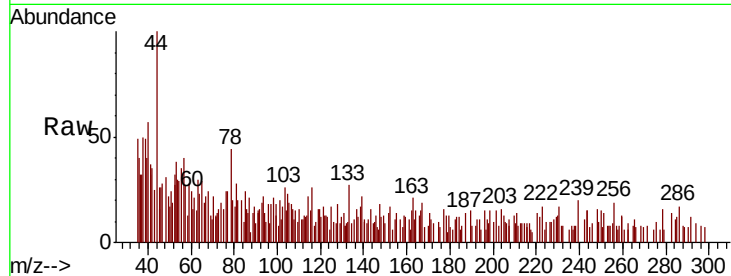
Tot Ion: 53 Resp: 1039

Ion Ratio Lower Upper

53 100

52 66.7 67.4 101.0#

51 31.5 29.4 44.2



#16

Acetone

Concen: 0.356 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013567.D

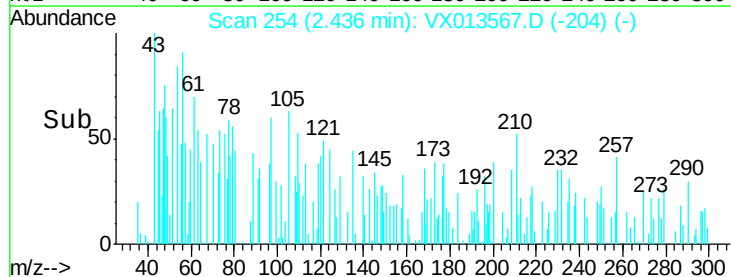
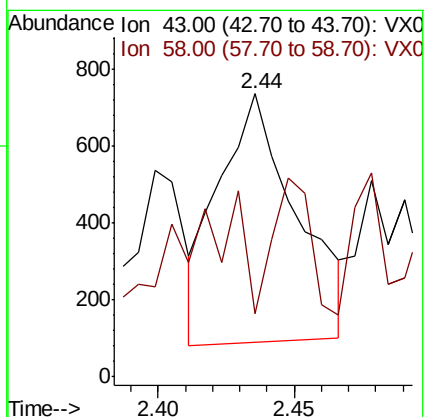
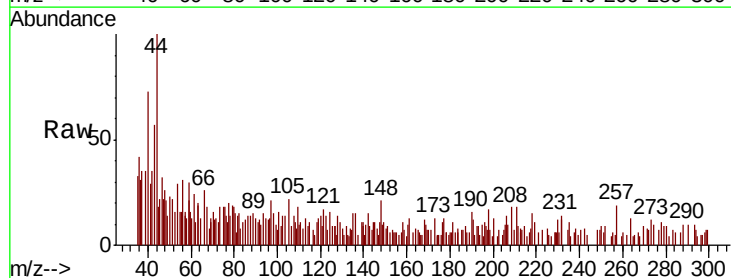
Acq: 23 Nov 2019 05:09

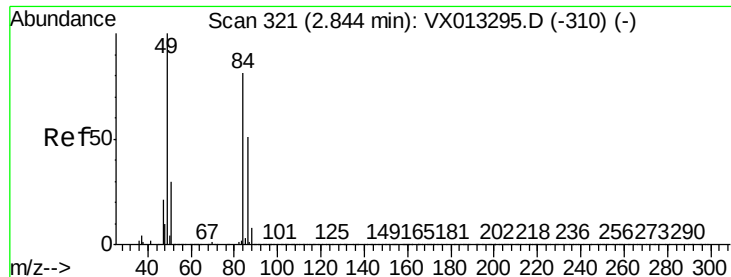
Tgt Ion: 43 Resp: 1296

Ion Ratio Lower Upper

43 100

58 0.5 24.3 36.5#

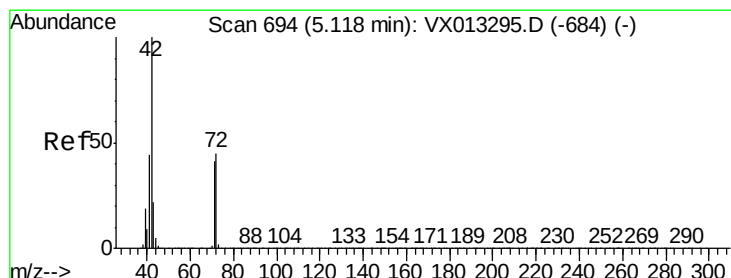
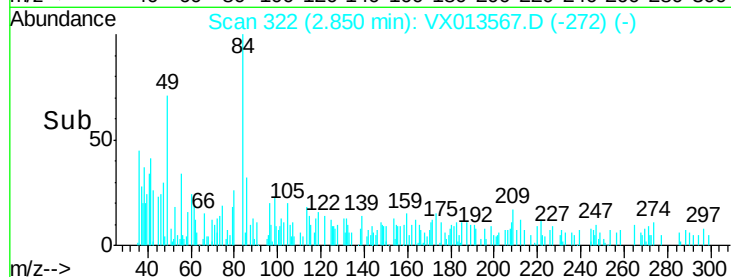
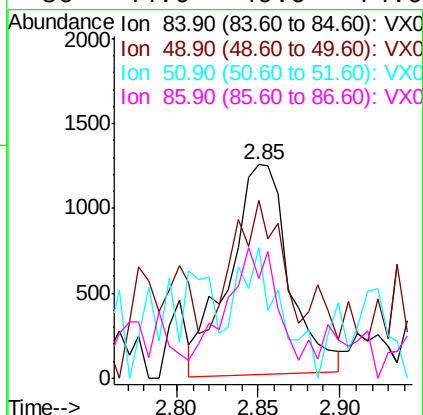
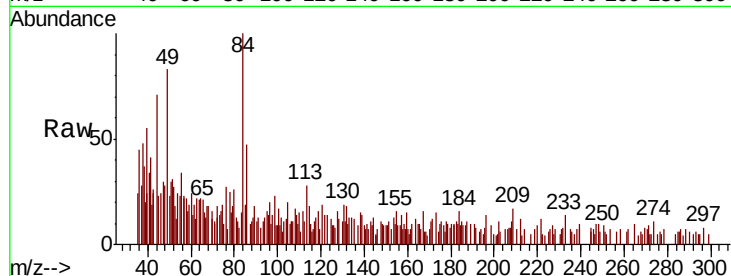




#20
Methylene Chloride
Concen: 0.472 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013567.D
Acq: 23 Nov 2019 05:09

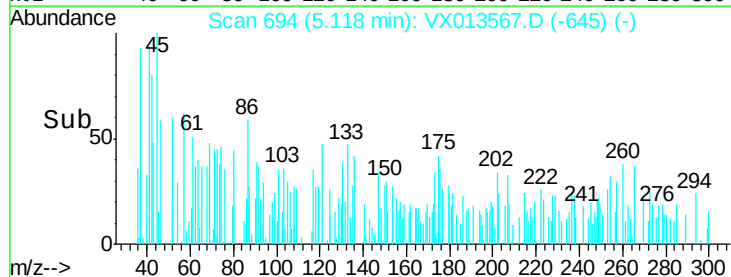
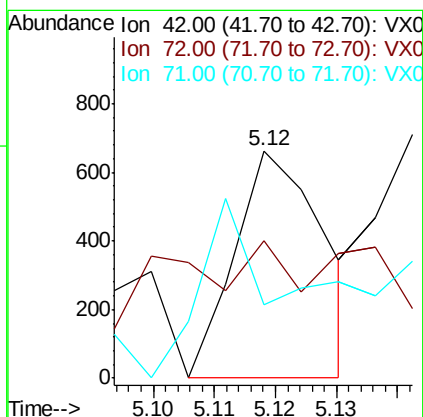
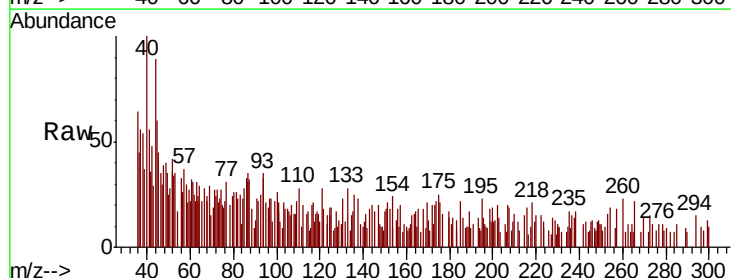
Instrument :
MSVOA_X
ClientSampleId :
MH-118.5T-20191121

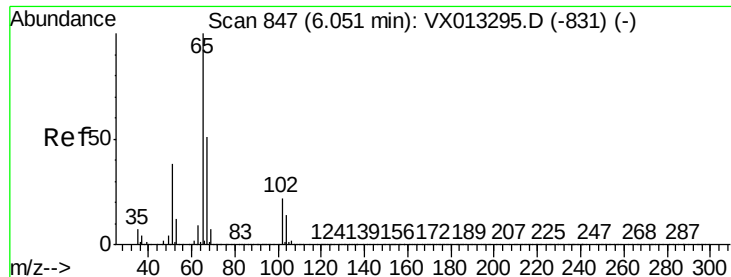
Tot Ion: 84 Resp: 3179
Ion Ratio Lower Upper
84 100
49 74.5 98.2 147.4#
51 29.7 29.9 44.9#
86 44.0 49.9 74.9#



#29
Tetrahydrofuran
Concen: 0.204 ug/l
RT: 5.12 min Scan# 694
Delta R.T. -0.00 min
Lab File: VX013567.D
Acq: 23 Nov 2019 05:09

Tgt Ion: 42 Resp: 671
Ion Ratio Lower Upper
42 100
72 28.3 35.8 53.8#
71 63.6 33.4 50.0#





#33

1,2-Dichloroethane-d4

Concen: 51.354 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

Instrument :

MSVOA_X

ClientSampleId :

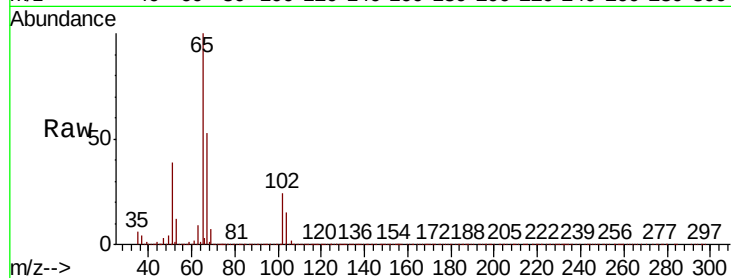
MH-118.5T-20191121

Tot Ion: 65 Resp: 375122

Ion Ratio Lower Upper

65 100

67 52.4 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

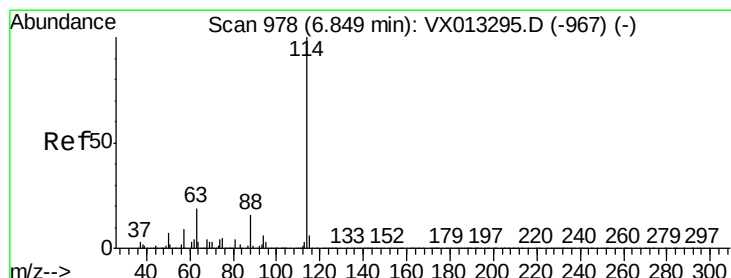
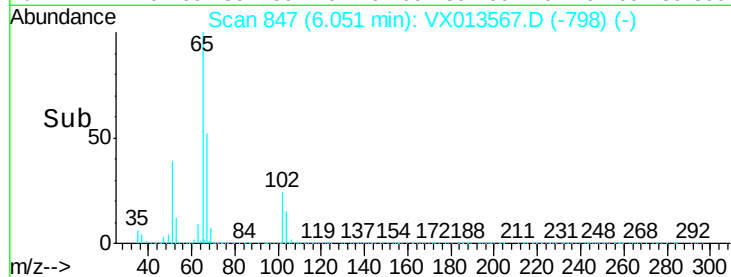
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

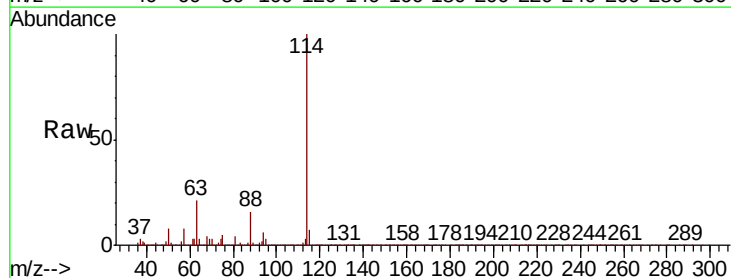
Tgt Ion: 114 Resp: 1007587

Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.4

88 15.7 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.85

600000

500000

400000

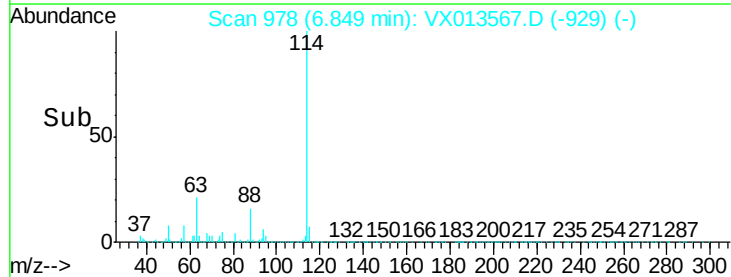
300000

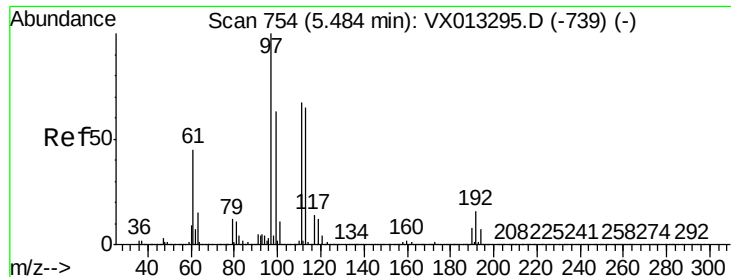
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 48.751 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

Instrument :

MSVOA_X

ClientSampleId :

MH-118.5T-20191121

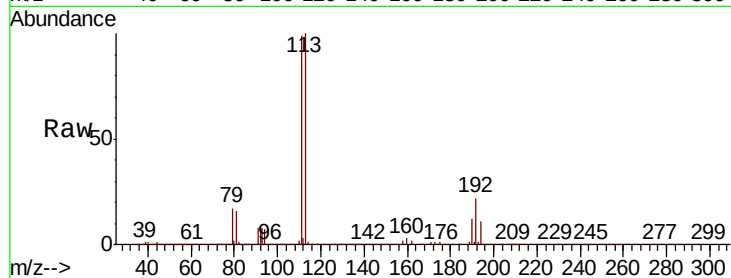
Tot Ion:113 Resp: 308094

Ion Ratio Lower Upper

113 100

111 102.3 81.9 122.9

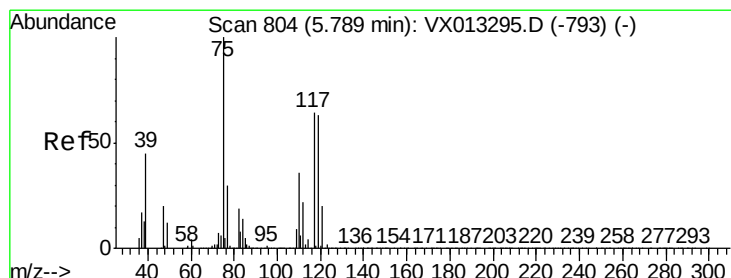
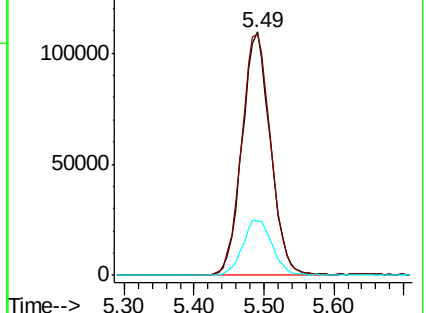
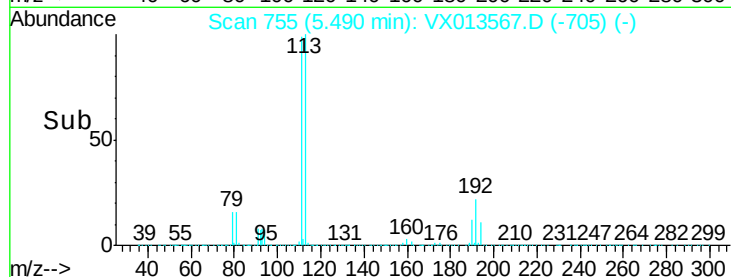
192 23.9 19.1 28.7



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: 5.057 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

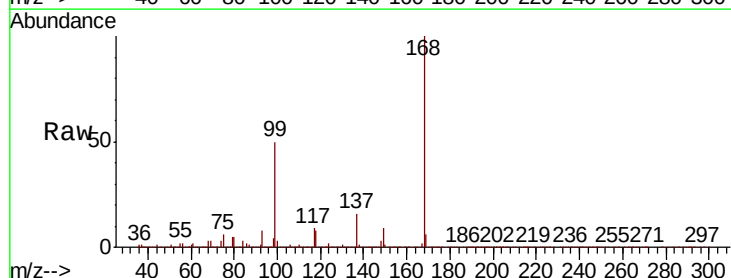
Tgt Ion: 75 Resp: 43714

Ion Ratio Lower Upper

75 100

110 10.2 18.1 54.1#

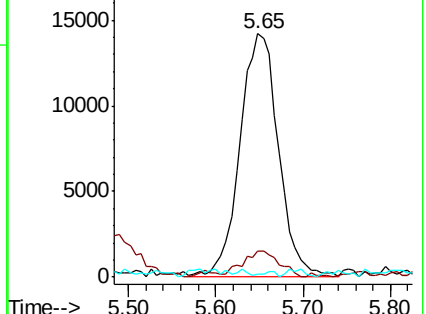
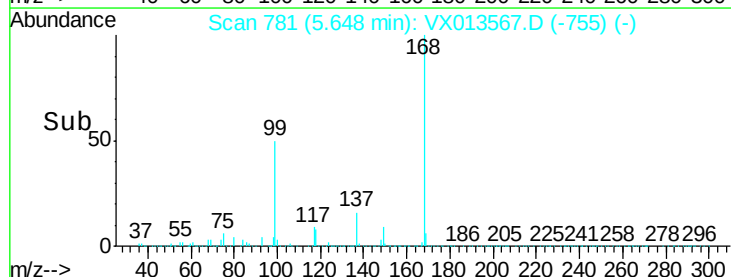
77 0.6 25.0 37.4#

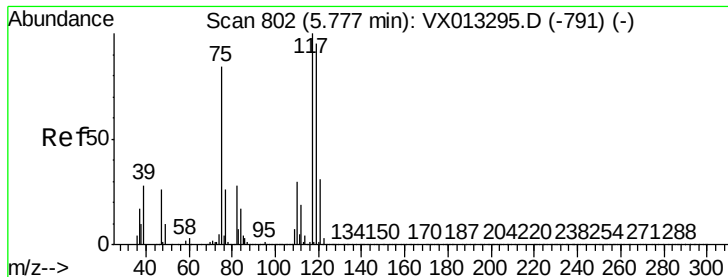


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.232 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

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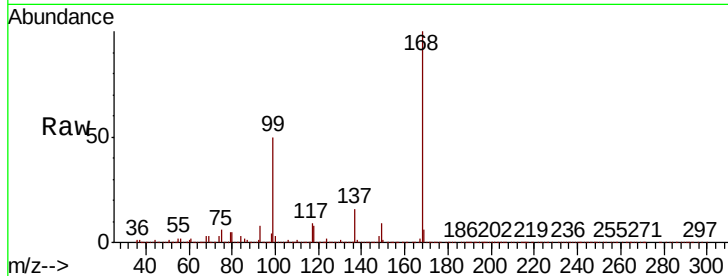
Tot Ion:117 Resp: 52675

Ion Ratio Lower Upper

117 100

119 4.5 76.1 114.1#

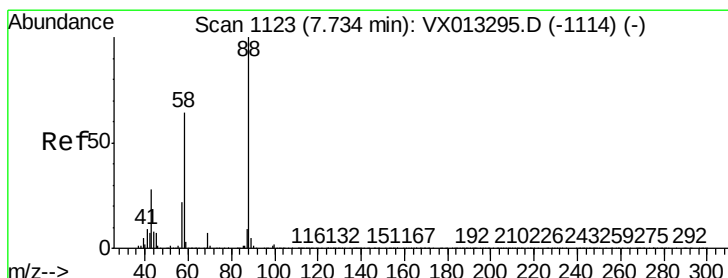
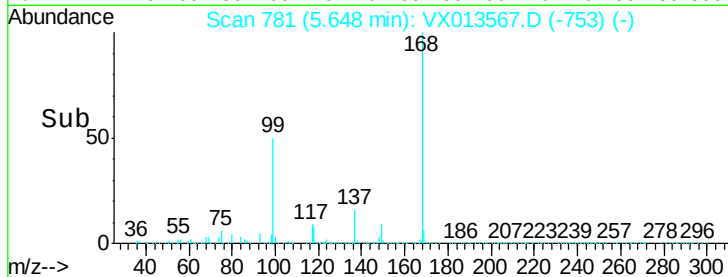
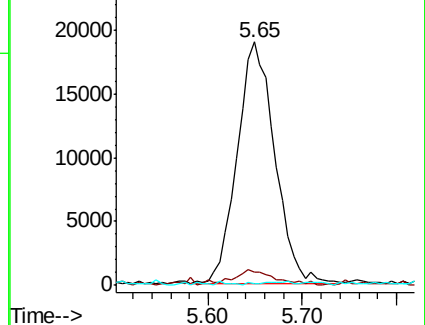
121 0.4 24.6 37.0#



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: 1.462 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

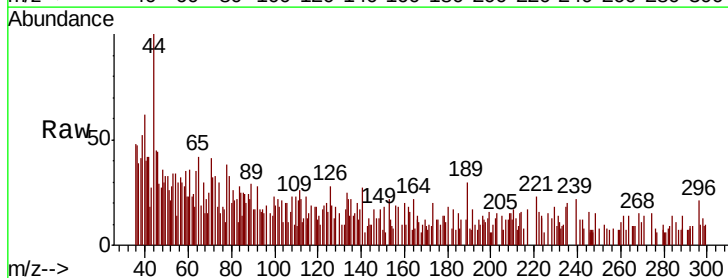
Tgt Ion: 88 Resp: 278

Ion Ratio Lower Upper

88 100

43 271.9 26.6 39.8#

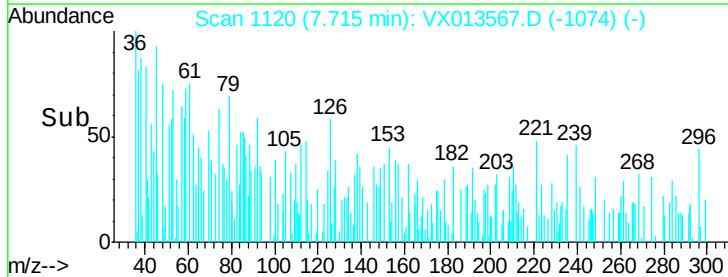
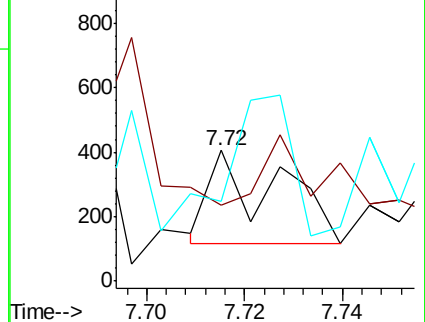
58 103.2 55.0 82.6#

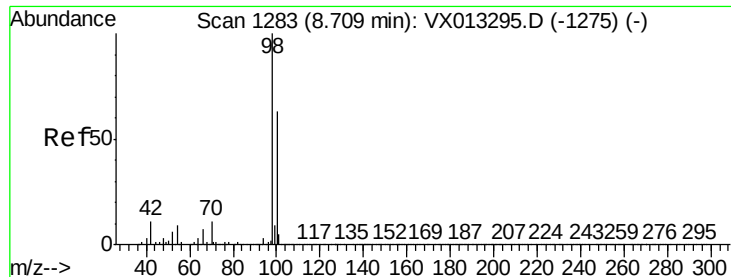


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.931 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

Instrument :

MSVOA_X

ClientSampleId :

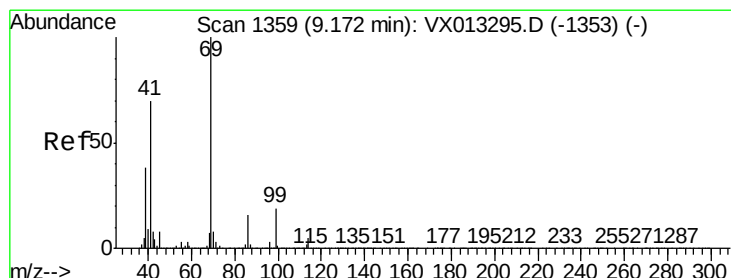
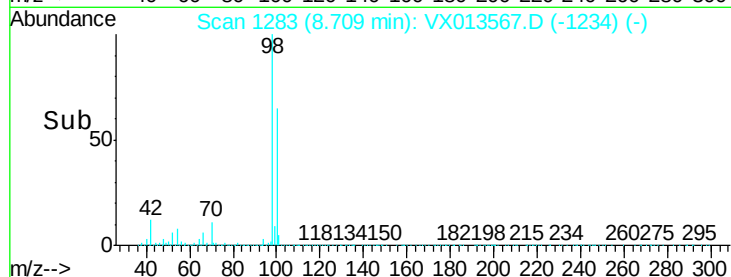
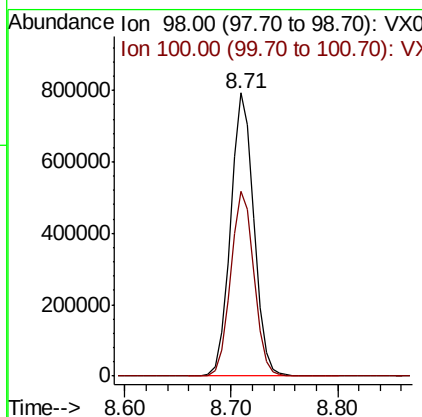
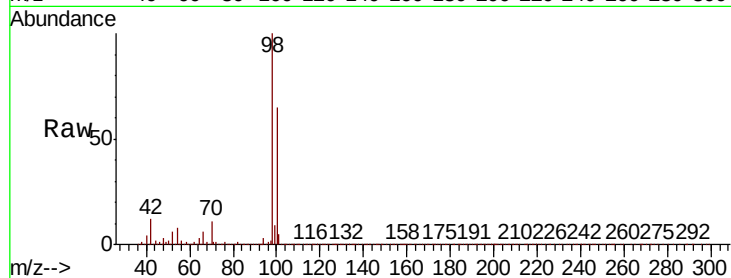
MH-118.5T-20191121

Tot Ion: 98 Resp: 1213411

Ion Ratio Lower Upper

98 100

100 65.5 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.590 ug/l

RT: 9.15 min Scan# 1355

Delta R.T. -0.02 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

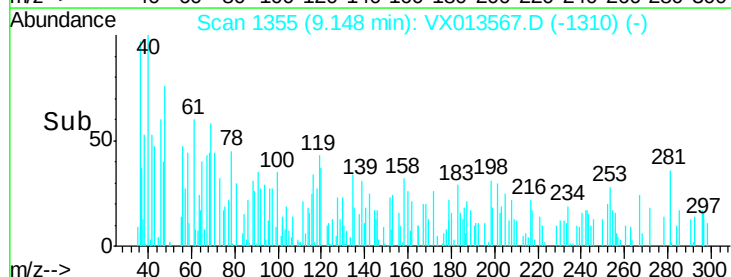
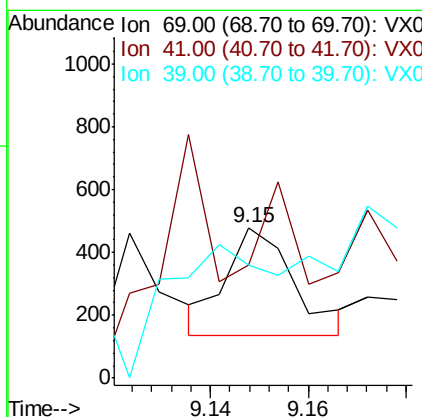
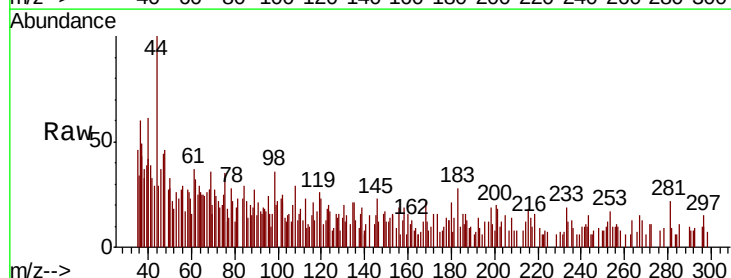
Tgt Ion: 69 Resp: 329

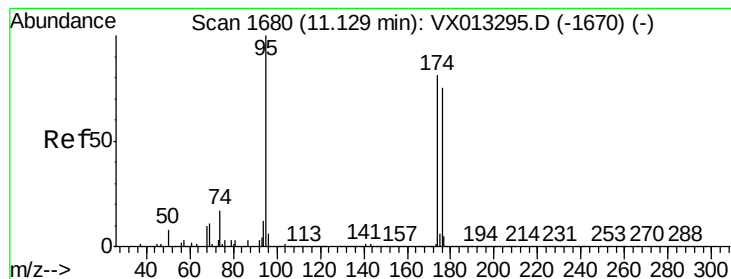
Ion Ratio Lower Upper

69 100

41 223.7 56.2 84.2#

39 194.8 31.1 46.7#





#62

4-Bromofluorobenzene

Concen: 46.919 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

Instrument :

MSVOA_X

ClientSampleId :

MH-118.5T-20191121

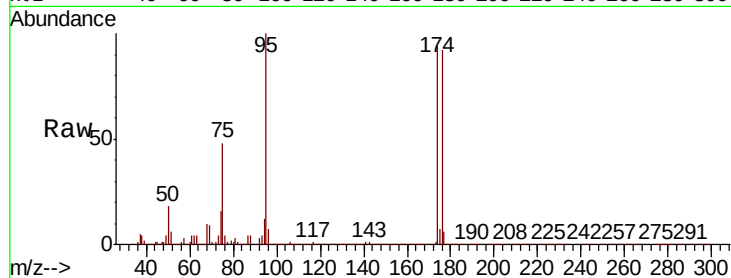
Tot Ion: 95 Resp: 403435

Ion Ratio Lower Upper

95 100

174 90.4 0.0 179.8

176 88.1 0.0 173.0



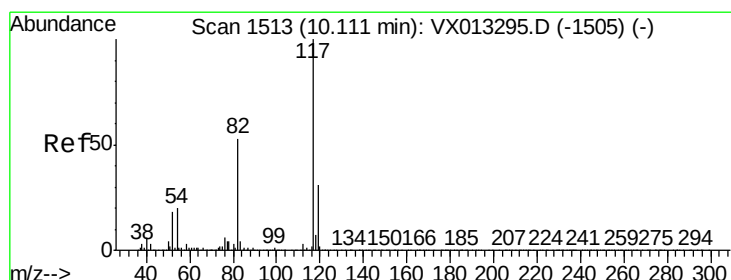
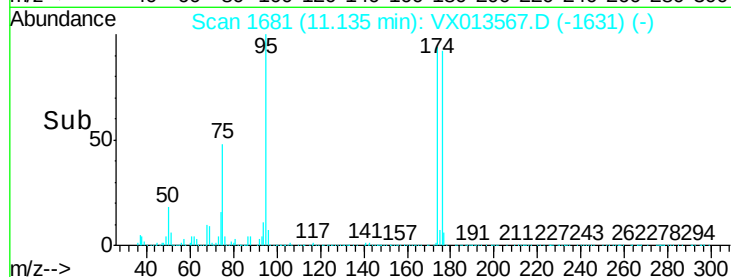
Abundance Ion 94.90 (94.60 to 95.60): VX013295.D (-1670) (-)

Ion 173.80 (173.50 to 174.50): VX013295.D (-1670) (-)

Ion 175.80 (175.50 to 176.50): VX013295.D (-1670) (-)

Time-->

11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

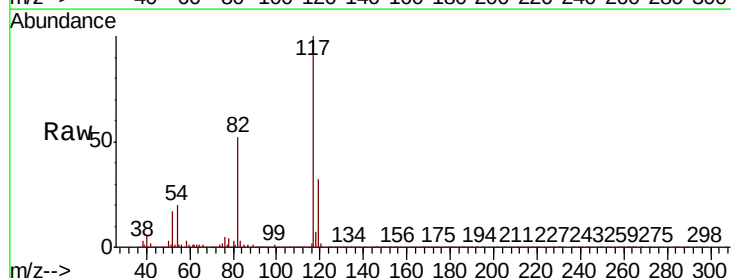
Tgt Ion: 117 Resp: 915644

Ion Ratio Lower Upper

117 100

82 52.2 42.6 64.0

119 31.5 24.8 37.2



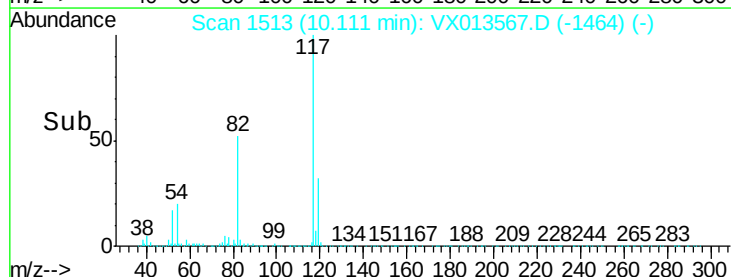
Abundance Ion 116.90 (116.60 to 117.60): VX013295.D (-1505) (-)

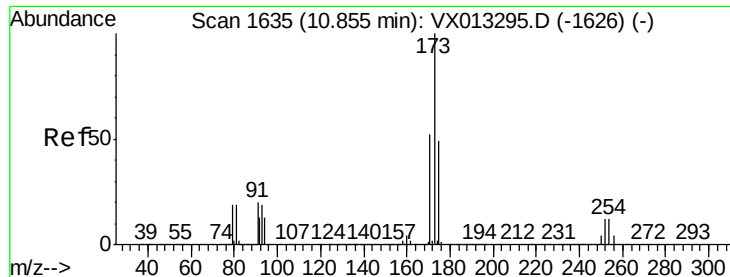
Ion 82.00 (81.70 to 82.70): VX013295.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX013295.D (-1505) (-)

Time-->

10.00 10.10 10.20





#71

Bromoform

Concen: 3.253 ug/l

RT: 10.87 min Scan# 1637

Delta R.T. 0.01 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

Instrument :

MSVOA_X

ClientSampleId :

MH-118.5T-20191121

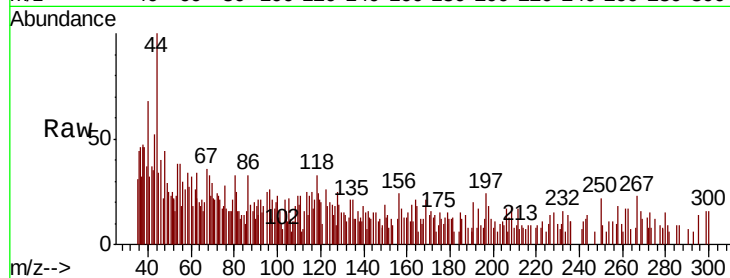
Tot Ion:173 Resp: 338

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

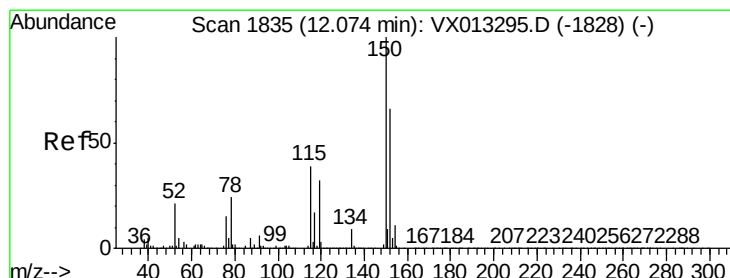
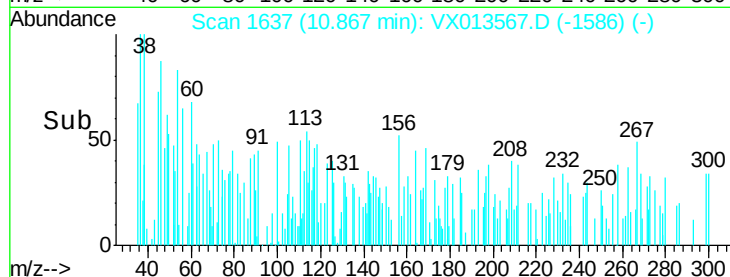
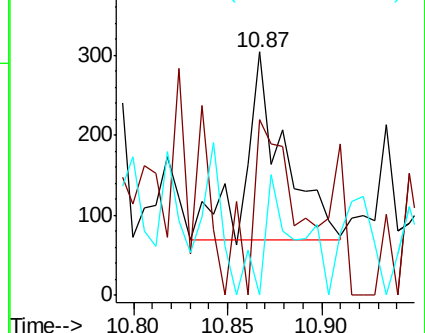
254 55.9 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

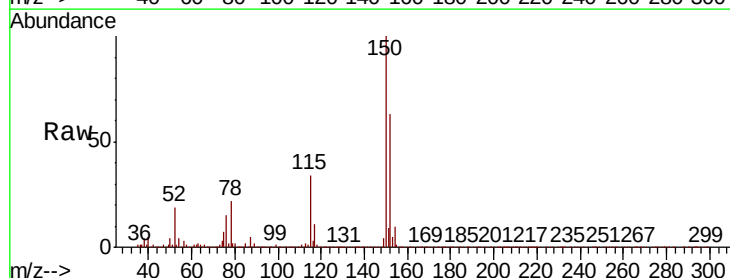
Tgt Ion:152 Resp: 414943

Ion Ratio Lower Upper

152 100

115 55.8 39.5 118.3

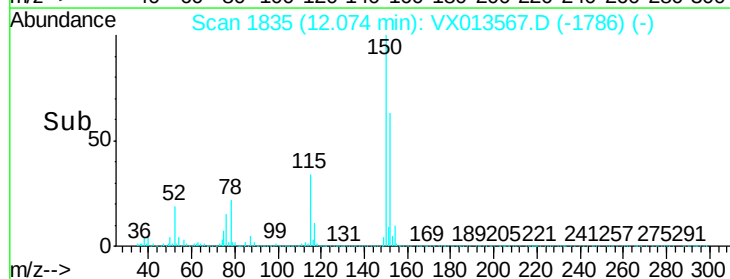
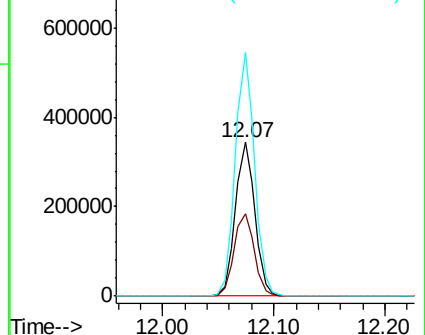
150 157.2 0.0 344.4

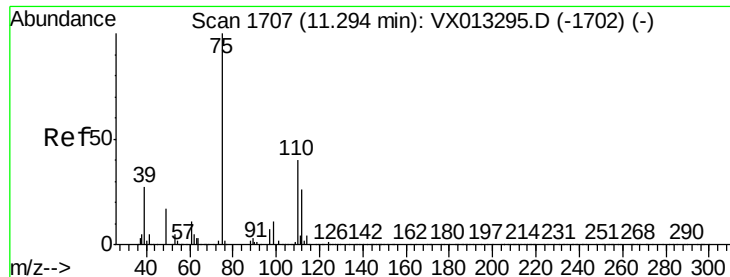


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.670 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

Instrument :

MSVOA_X

ClientSampleId :

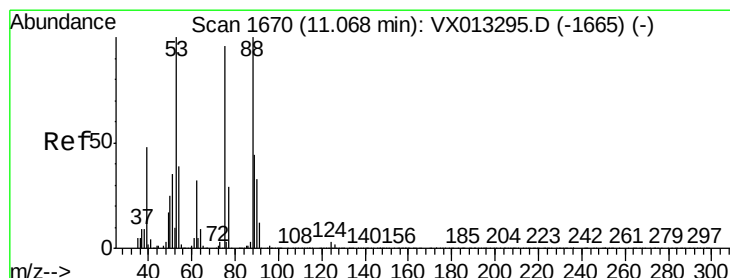
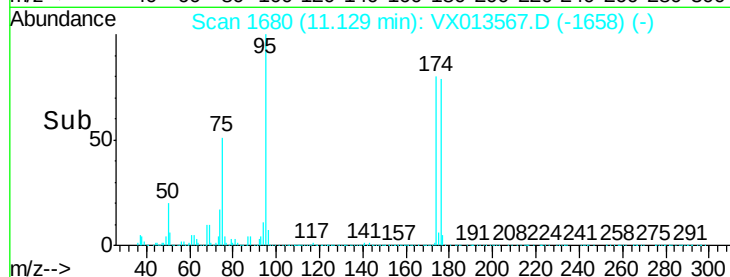
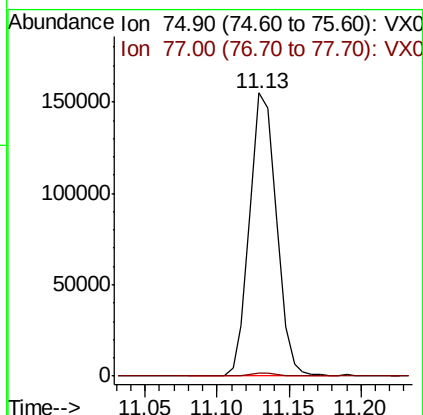
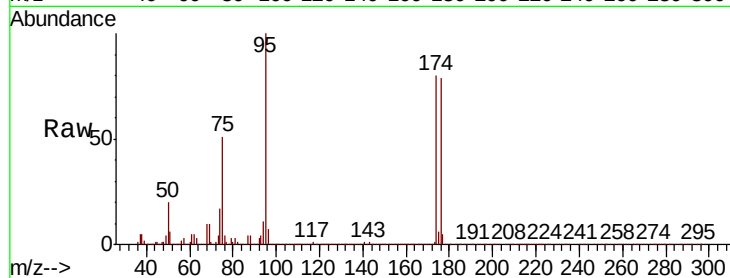
MH-118.5T-20191121

Tot Ion: 75 Resp: 199489

Ion Ratio Lower Upper

75 100

77 1.4 22.3 66.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.925 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013567.D

Acq: 23 Nov 2019 05:09

Tgt Ion: 75 Resp: 199489

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

89 0.1 36.0 54.0#

