

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\
 Data File : VX012839.D
 Acq On : 07 Oct 2019 15:36
 Operator : JC/SP
 Sample : K5154-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-10022019

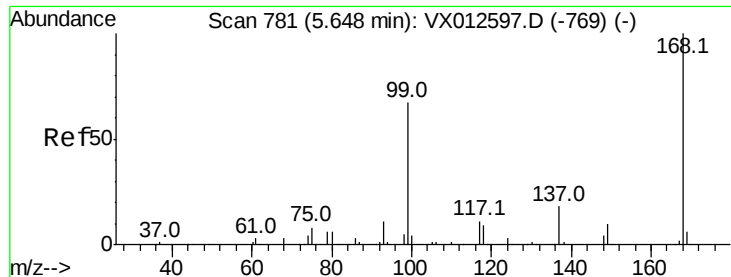
Quant Time: Oct 08 11:12:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	186659	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	315453	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	256736	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	96767	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	121764	44.80	ug/l	0.00
Spiked Amount			Recovery	=	89.60%	
35) Dibromofluoromethane	5.49	113	92961	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
50) Toluene-d8	8.71	98	369337	51.05	ug/l	0.00
Spiked Amount			Recovery	=	102.10%	
62) 4-Bromofluorobenzene	11.14	95	120539	42.37	ug/l	0.00
Spiked Amount			Recovery	=	84.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	422	0.448	ug/l	82
6) Chloroethane	1.65	64	4005	2.479	ug/l #	67
10) Methyl Iodide	2.50	142	211	5.041	ug/l #	62
11) Tert butyl alcohol	3.02	59	232	0.342	ug/l #	72
13) Acrolein	2.29	56	25	10.296	ug/l #	1
16) Acetone	2.42	43	570	0.396	ug/l	99
31) Cyclohexane	5.65	56	4092	1.082	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	15626	5.139	ug/l #	51
38) Carbon Tetrachloride	5.65	117	19183	6.211	ug/l #	19
51) 4-Methyl-2-Pentanone	8.71	43	1663	0.453	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	60374	23.586	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	60374	67.593	ug/l #	8

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012839.D

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Instrument :

MSVOA_X

ClientSampleId :

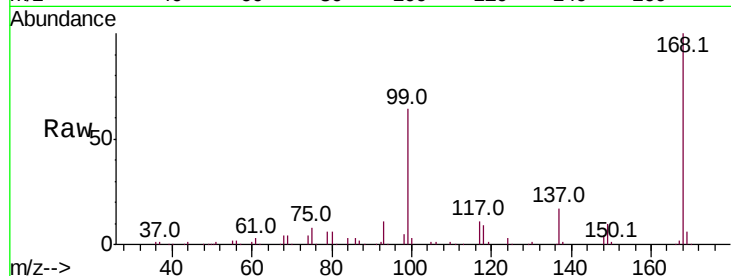
TB-10022019

Tot Ion:168 Resp: 186659

Ion Ratio Lower Upper

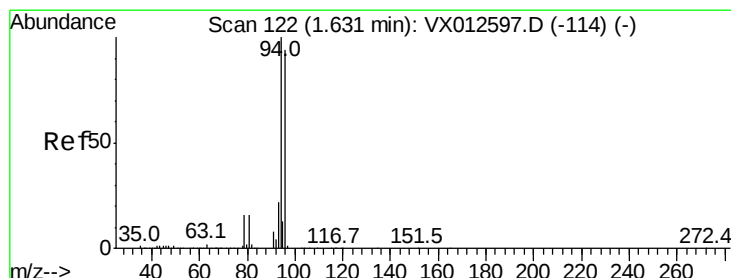
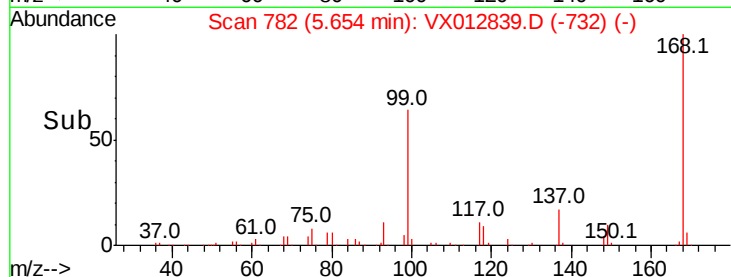
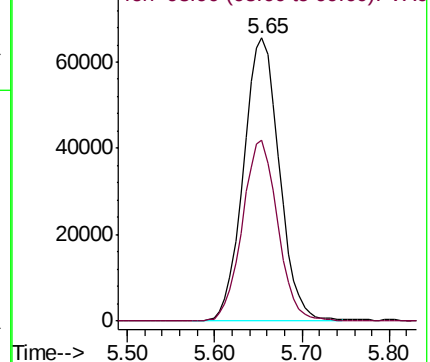
168 100

99 63.9 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.448 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012839.D

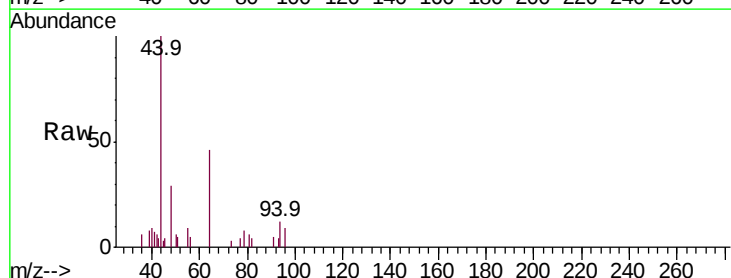
Acq: 07 Oct 2019 15:36

Tgt Ion: 94 Resp: 422

Ion Ratio Lower Upper

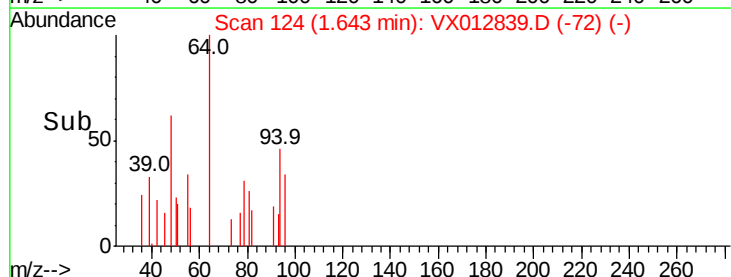
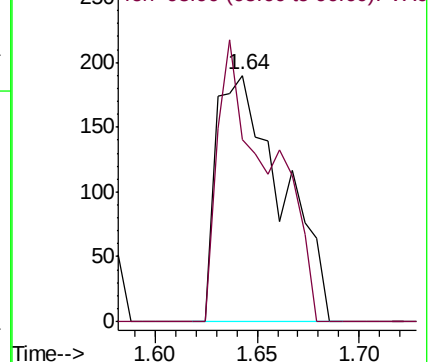
94 100

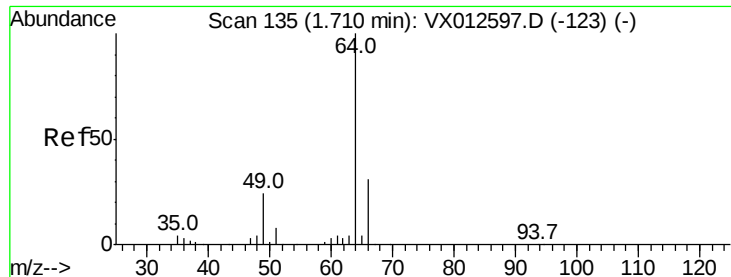
96 73.7 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 2.479 ug/l

RT: 1.65 min Scan# 125

Delta R.T. -0.06 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

Instrument :

MSVOA_X

ClientSampled :

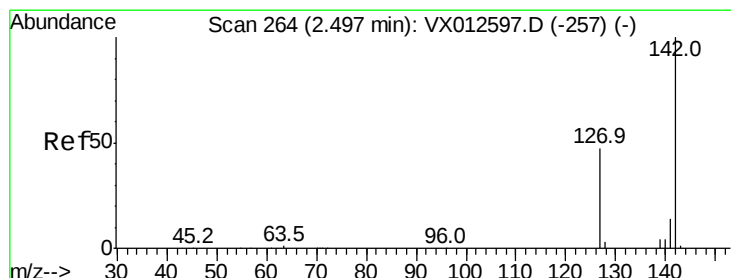
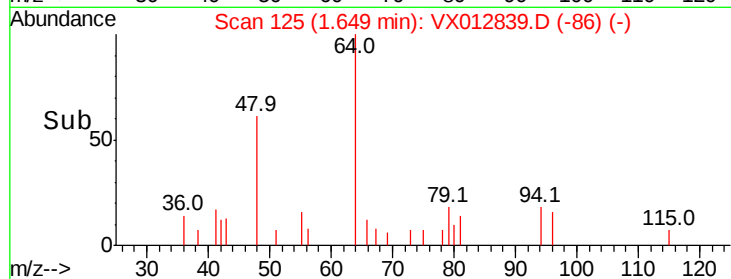
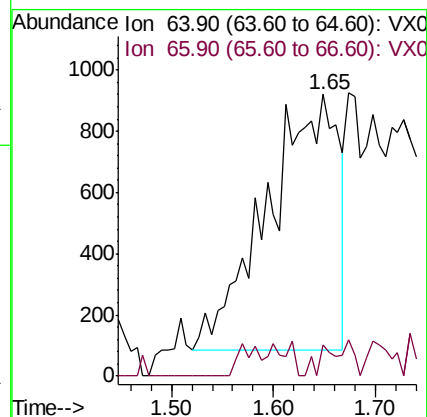
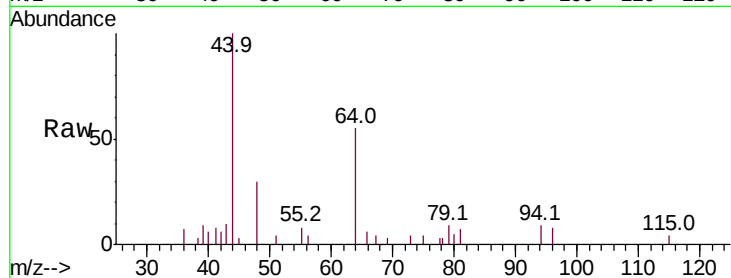
TB-10022019

Tot Ion: 64 Resp: 4005

Ion Ratio Lower Upper

64 100

66 12.0 24.0 36.0#



#10

Methyl Iodide

Concen: 5.041 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

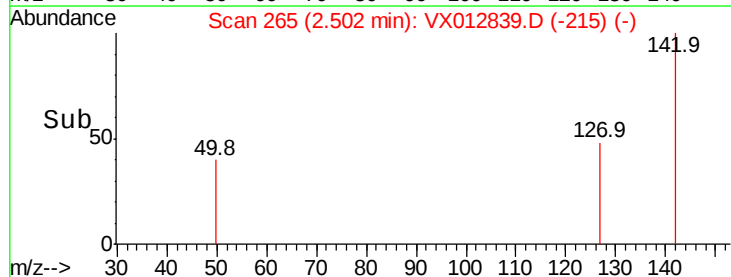
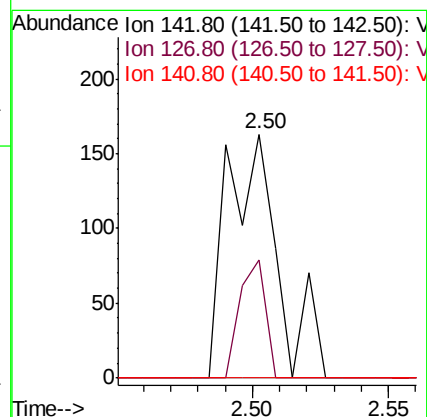
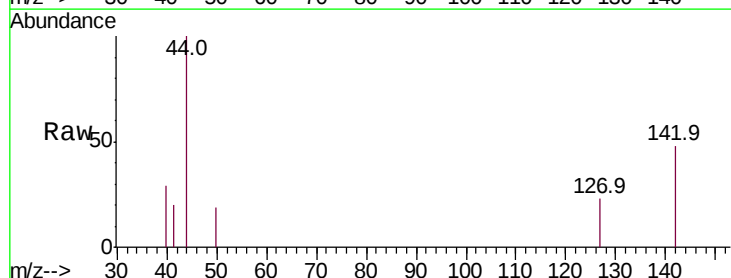
Tgt Ion: 142 Resp: 211

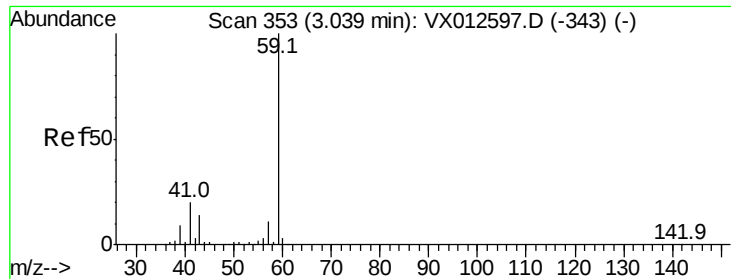
Ion Ratio Lower Upper

142 100

127 24.6 40.8 61.2#

141 0.0 12.1 18.1#

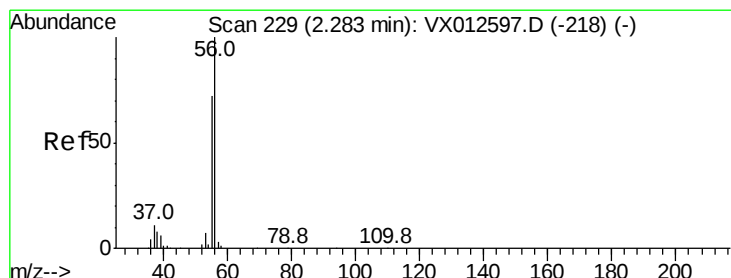
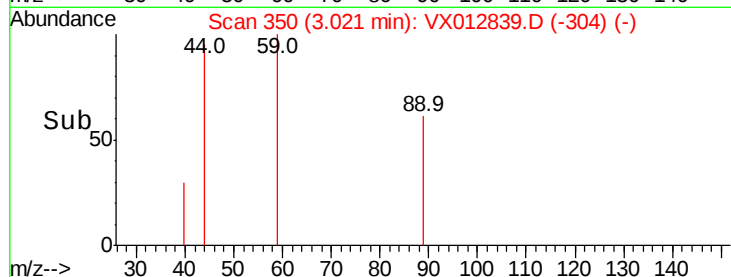
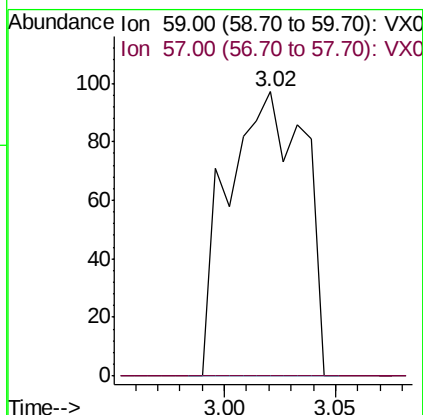
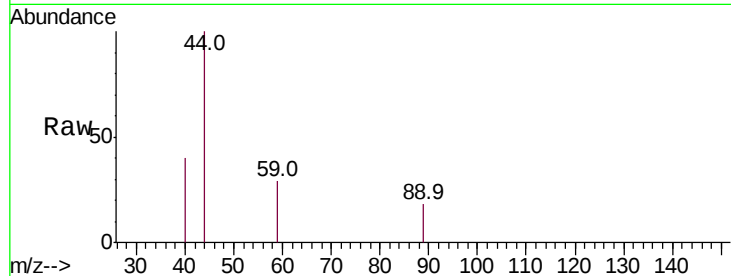




#11
Tert butyl alcohol
Concen: 0.342 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX012839.D
Acq: 07 Oct 2019 15:36

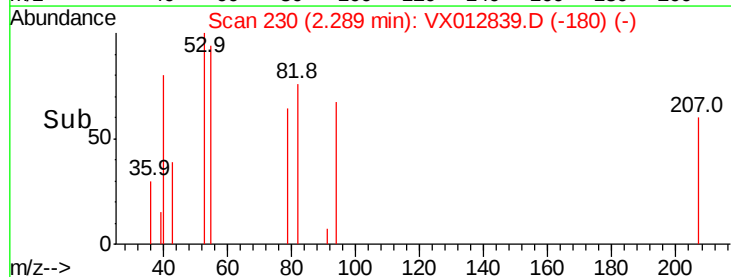
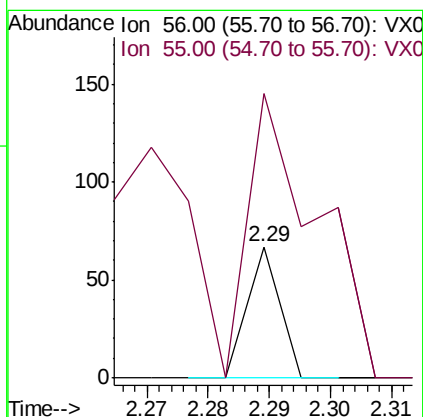
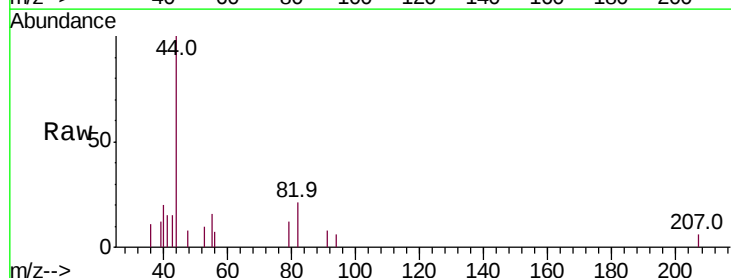
Instrument :
MSVOA_X
ClientSampleId :
TB-10022019

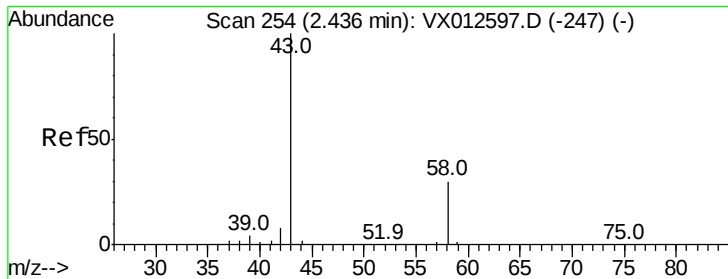
Tot Ion: 59 Resp: 232
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 10.296 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX012839.D
Acq: 07 Oct 2019 15:36

Tgt Ion: 56 Resp: 25
Ion Ratio Lower Upper
56 100
55 452.0 55.8 83.8#





#16

Acetone

Concen: 0.396 ug/l

RT: 2.42 min Scan# 252

Delta R.T. -0.01 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

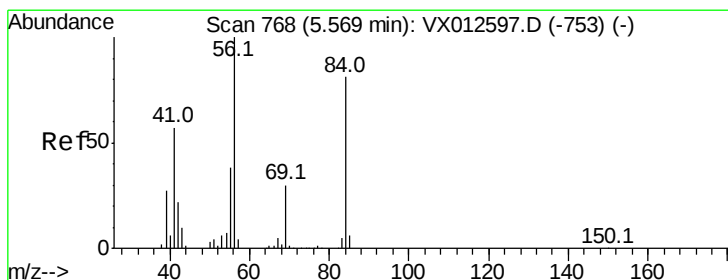
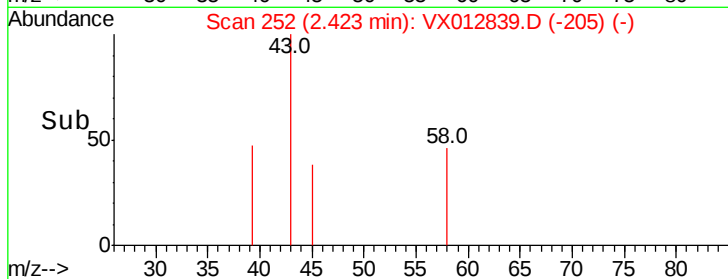
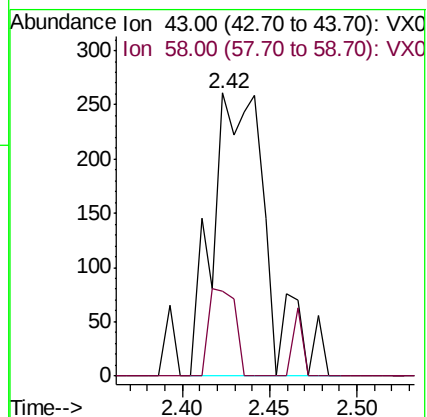
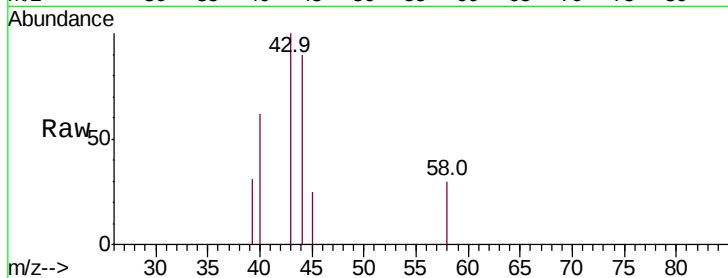
TB-10022019

Tot Ion: 43 Resp: 570

Ion Ratio Lower Upper

43 100

58 29.9 23.3 34.9



#31

Cyclohexane

Concen: 1.082 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

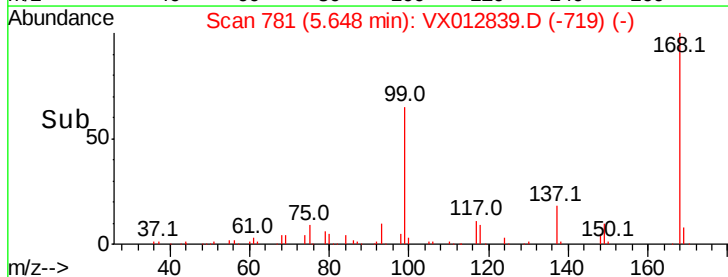
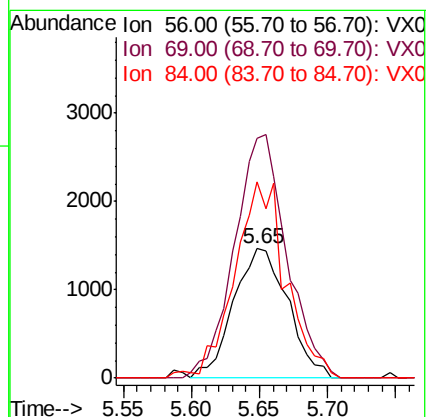
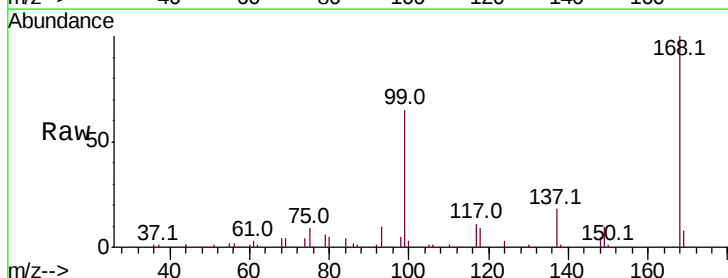
Tgt Ion: 56 Resp: 4092

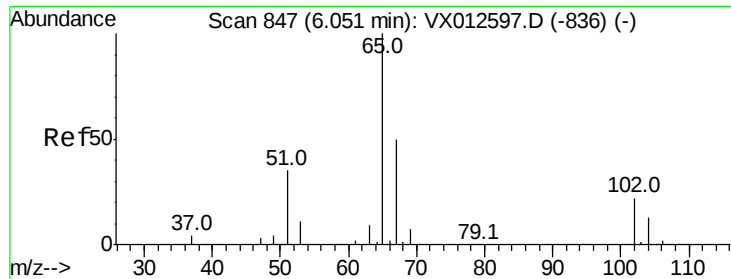
Ion Ratio Lower Upper

56 100

69 185.6 25.0 37.6#

84 151.7 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 44.797 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

Instrument :

MSVOA_X

ClientSampled :

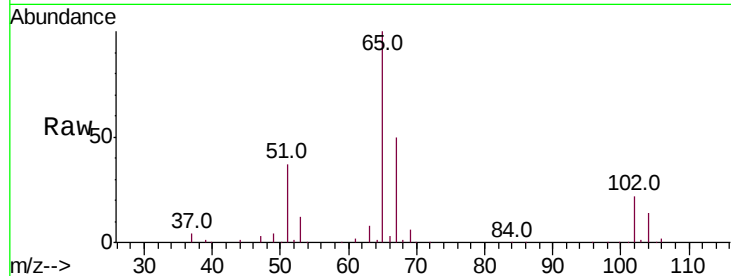
TB-10022019

Tot Ion: 65 Resp: 121764

Ion Ratio Lower Upper

65 100

67 52.0 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

50000

40000

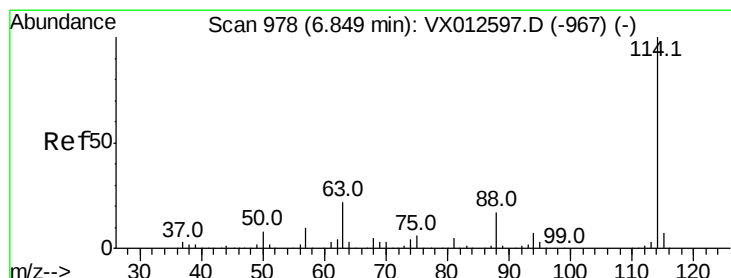
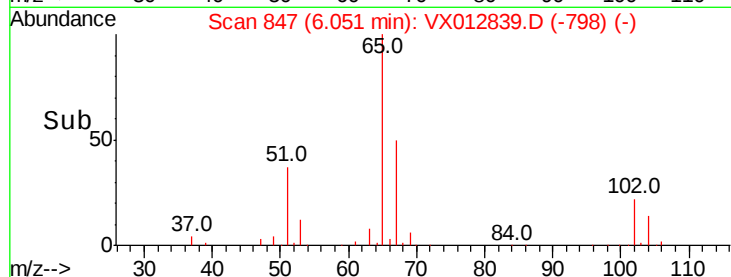
30000

20000

10000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

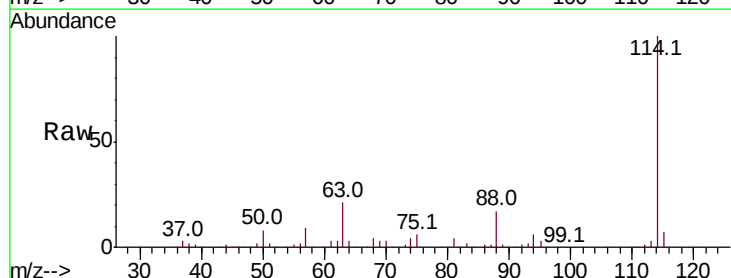
Tgt Ion: 114 Resp: 315453

Ion Ratio Lower Upper

114 100

63 21.0 0.0 43.2

88 17.1 0.0 33.2



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

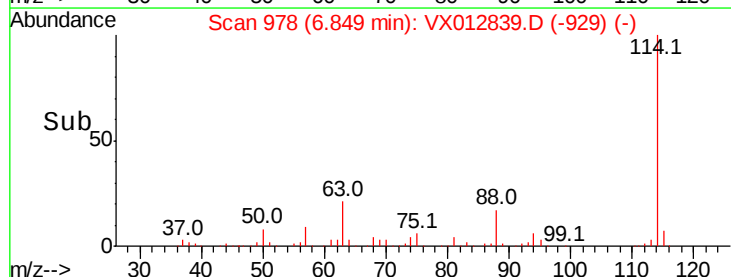
150000

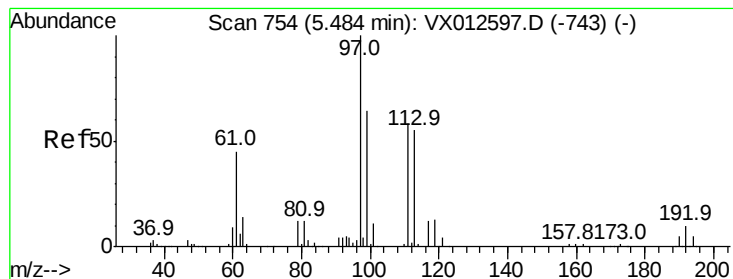
100000

50000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 49.483 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

TB-10022019

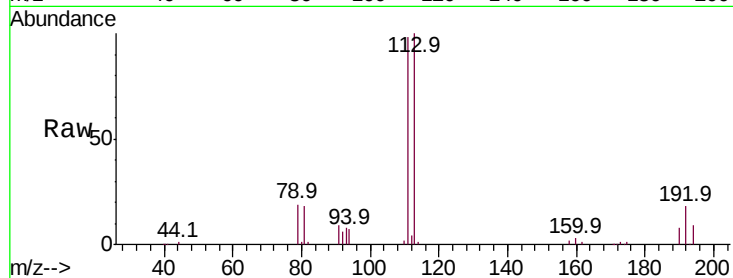
Tot Ion:113 Resp: 92961

Ion Ratio Lower Upper

113 100

111 104.0 83.4 125.2

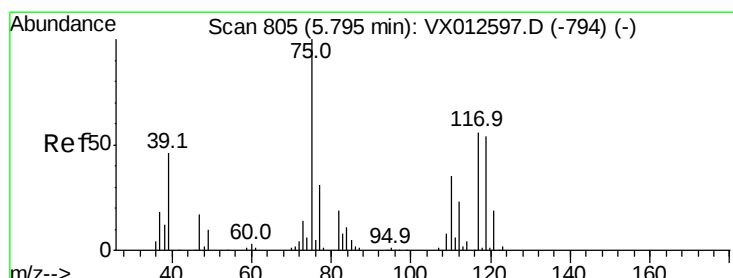
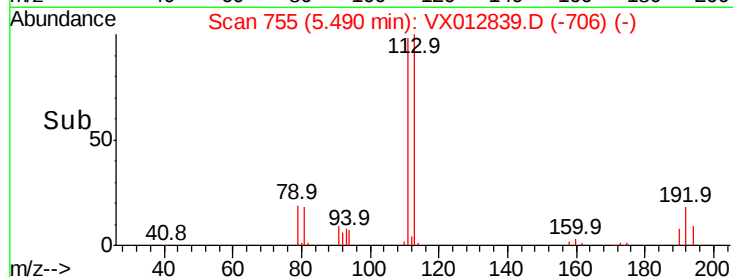
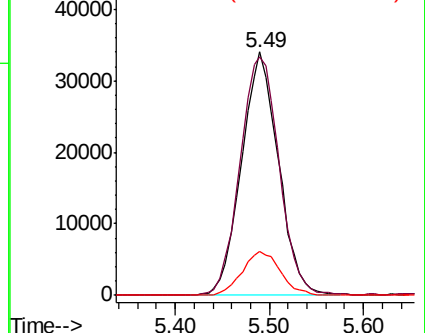
192 18.7 14.4 21.6



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: 5.139 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

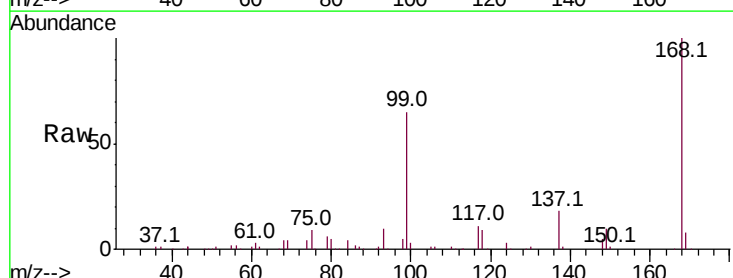
Tgt Ion: 75 Resp: 15626

Ion Ratio Lower Upper

75 100

110 9.2 16.7 50.0#

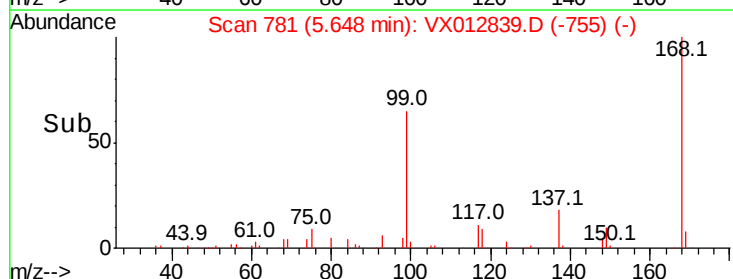
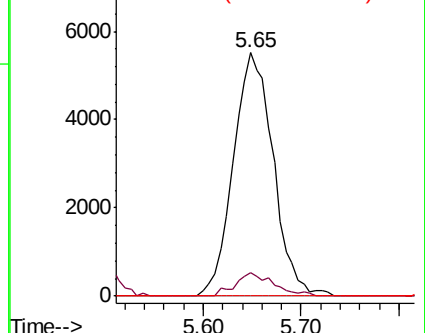
77 0.0 24.2 36.2#

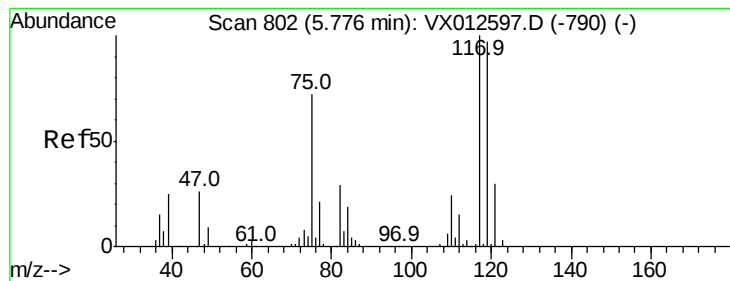


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.211 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

TB-10022019

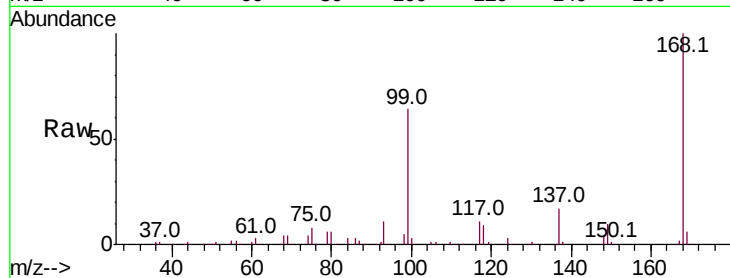
Tot Ion:117 Resp: 19183

Ion Ratio Lower Upper

117 100

119 7.8 75.7 113.5#

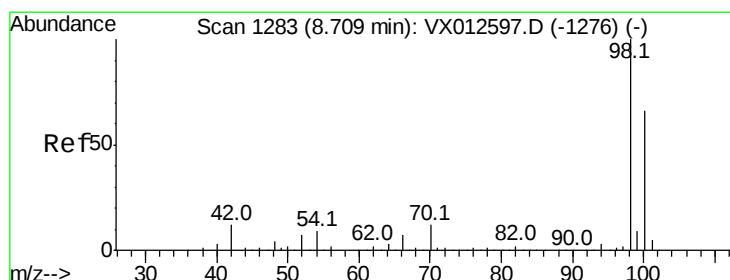
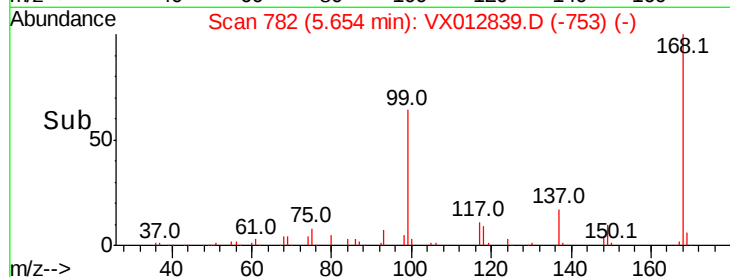
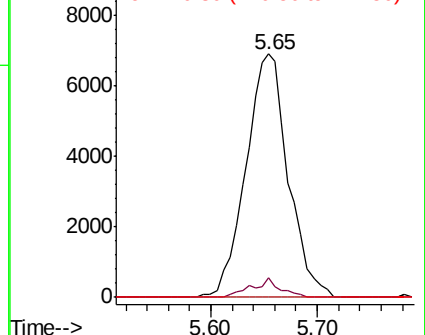
121 0.0 24.2 36.4#



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



#50

Toluene-d8

Concen: 51.050 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012839.D

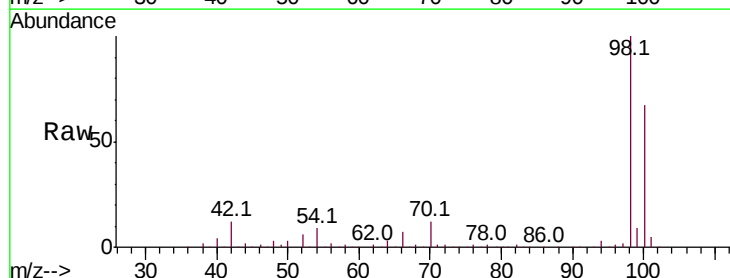
Acq: 07 Oct 2019 15:36

Tgt Ion: 98 Resp: 369337

Ion Ratio Lower Upper

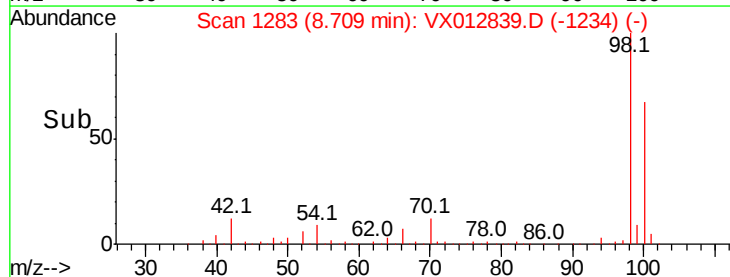
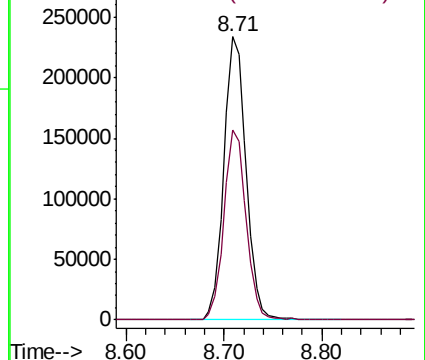
98 100

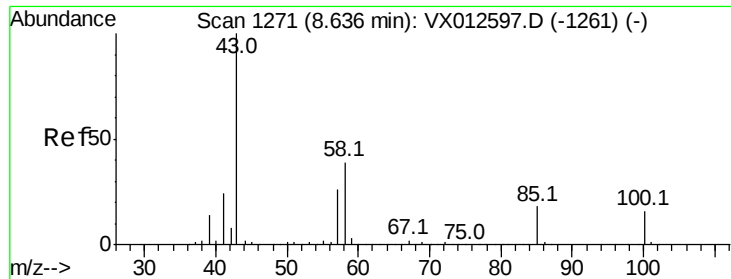
100 66.9 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.453 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

Instrument :

MSVOA_X

ClientSampled :

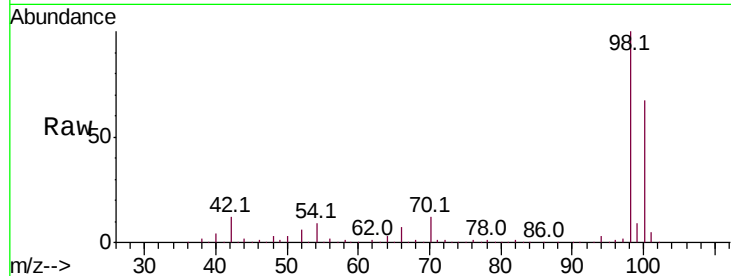
TB-10022019

Tot Ion: 43 Resp: 1663

Ion Ratio Lower Upper

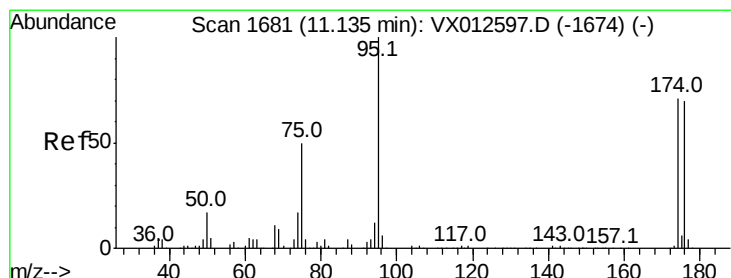
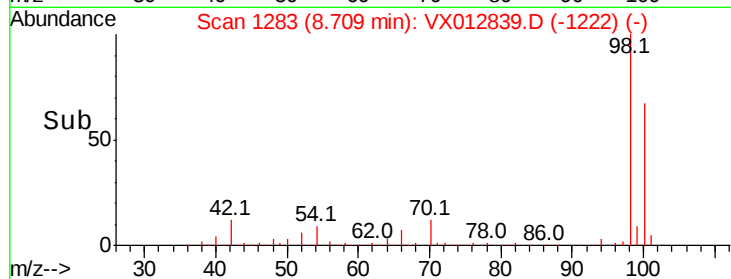
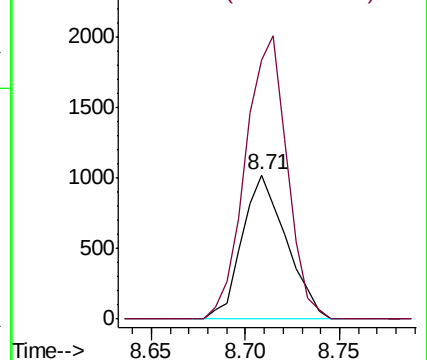
43 100

58 185.4 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 42.372 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

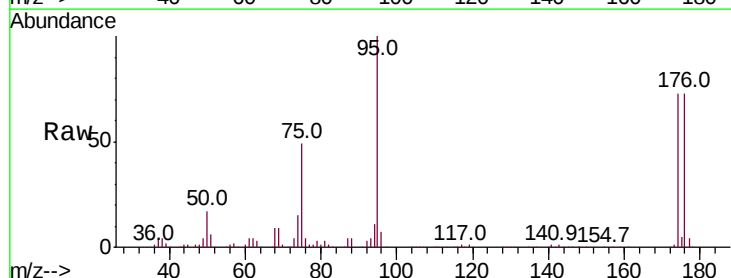
Tgt Ion: 95 Resp: 120539

Ion Ratio Lower Upper

95 100

174 71.6 0.0 140.0

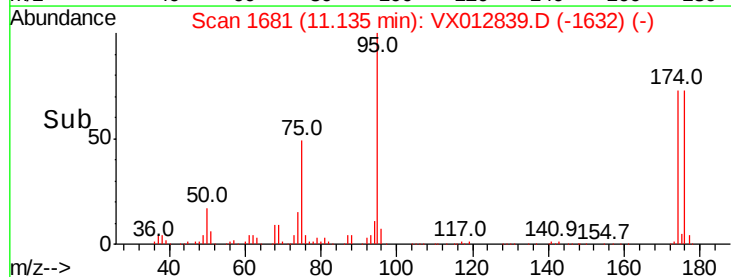
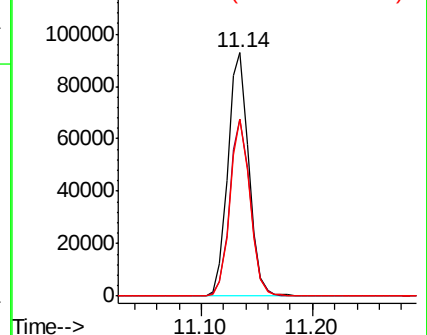
176 69.8 0.0 135.4

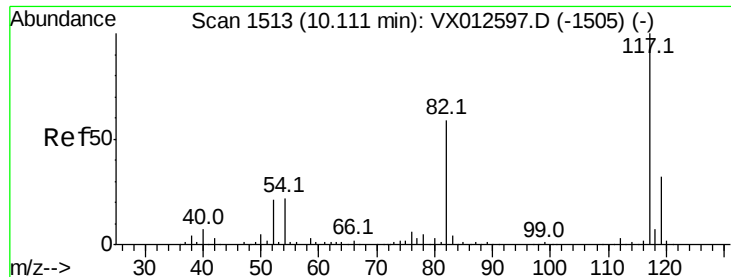


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

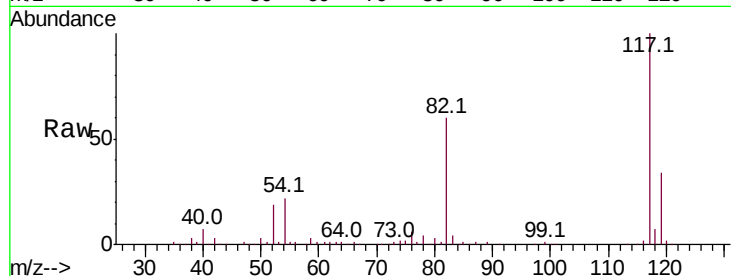




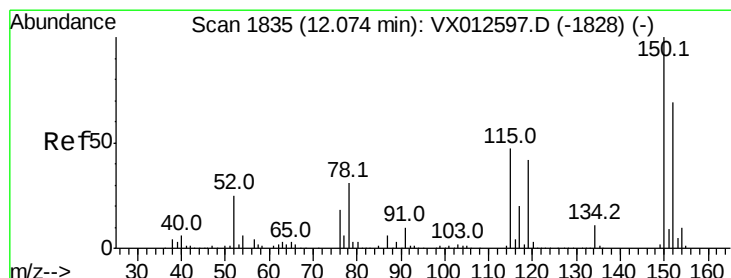
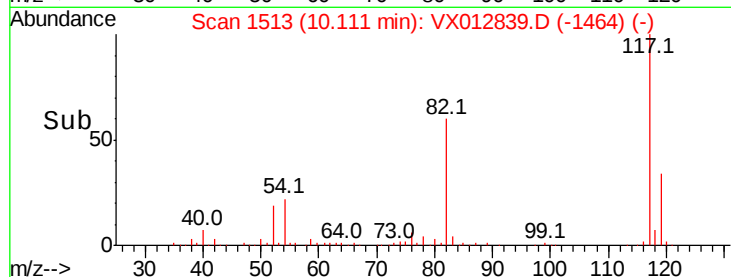
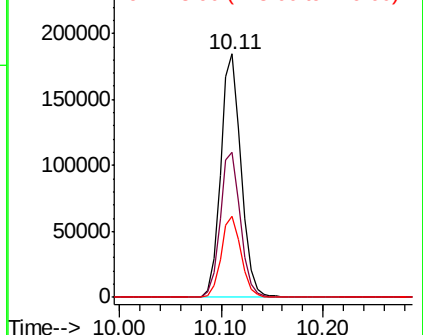
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012839.D
Acq: 07 Oct 2019 15:36

Instrument :
MSVOA_X
ClientSampleId :
TB-10022019

Tot Ion:117 Resp: 256736
Ion Ratio Lower Upper
117 100
82 59.5 45.9 68.9
119 33.5 25.3 37.9

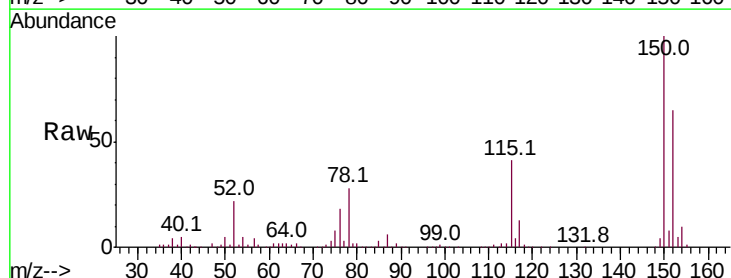


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

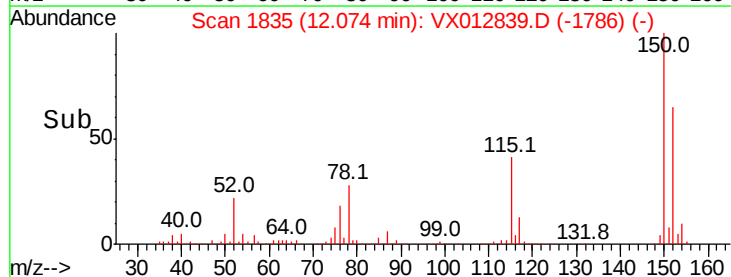
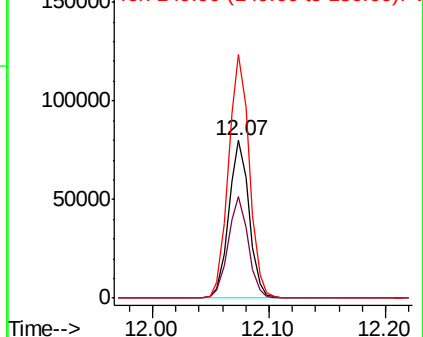


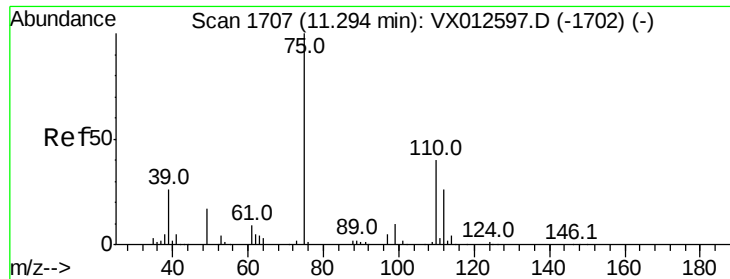
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX012839.D
Acq: 07 Oct 2019 15:36

Tgt Ion:152 Resp: 96767
Ion Ratio Lower Upper
152 100
115 63.7 44.1 132.3
150 158.0 0.0 343.8



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: 23.586 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

Instrument :

MSVOA_X

ClientSampled :

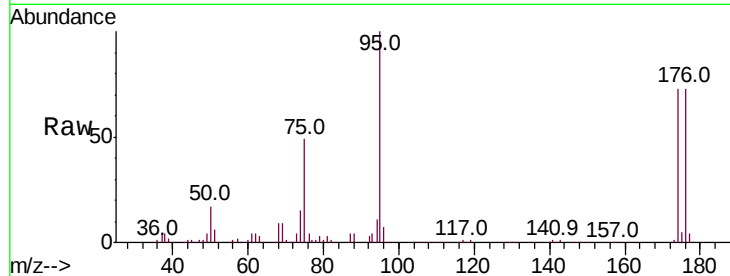
TB-10022019

Tot Ion: 75 Resp: 60374

Ion Ratio Lower Upper

75 100

77 1.0 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

50000

40000

30000

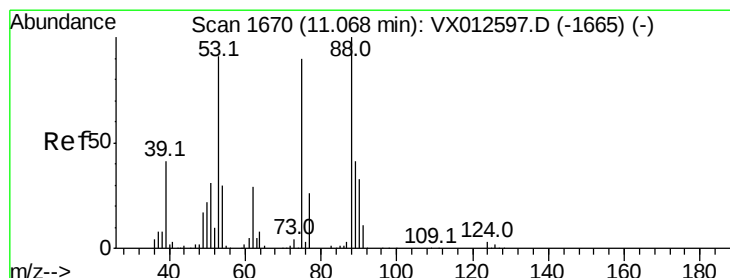
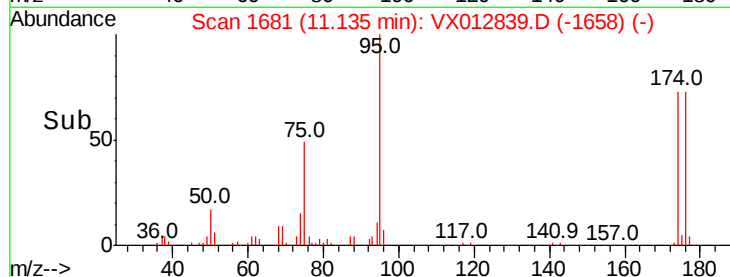
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 67.593 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

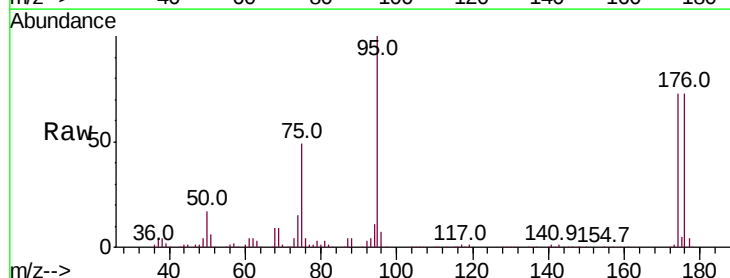
Tgt Ion: 75 Resp: 60374

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.14

60000

50000

40000

30000

20000

10000

0

Time-->

11.10 11.20

