

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060718\
 Data File : VX002377.D
 Acq On : 07 Jun 2018 15:00
 Operator : JC/MD
 Sample : J3342-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-180605

Quant Time: Jun 07 16:12:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	241741	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	355444	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	325599	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	180844	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	189896	55.30	ug/l	0.00
Spiked Amount			Recovery	=	110.60%	
35) Dibromofluoromethane	5.51	113	139930	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
50) Toluene-d8	8.72	98	559880	52.26	ug/l	0.00
Spiked Amount			Recovery	=	104.52%	
62) 4-Bromofluorobenzene	11.14	95	193932	46.94	ug/l	0.00
Spiked Amount			Recovery	=	93.88%	

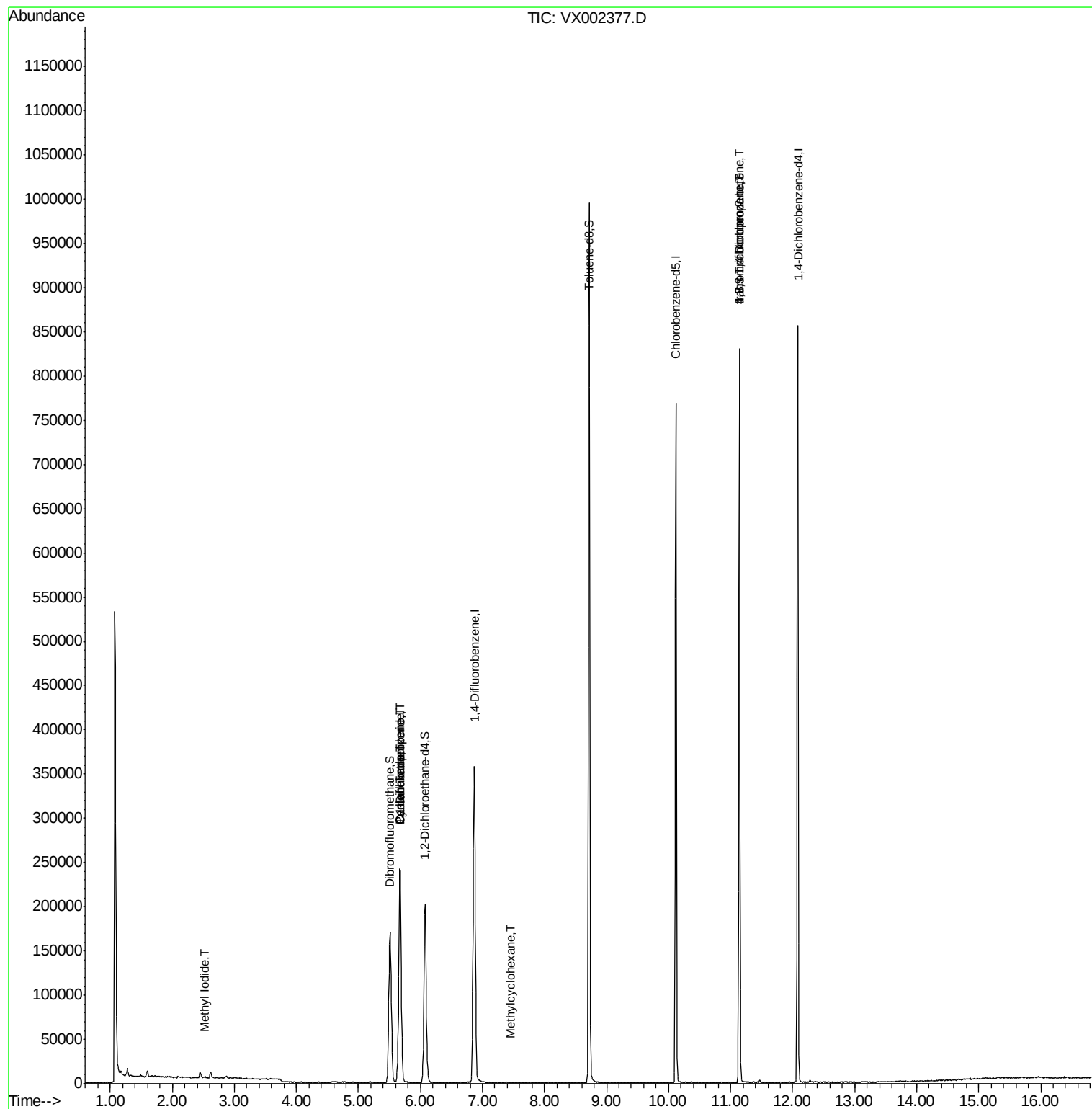
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	616	Below Cal		89
5) Bromomethane	1.66	94	1245	Below Cal	#	58
8) Diethyl Ether	2.22	74	23	Below Cal	#	1
10) Methyl Iodide	2.53	142	1316	0.359 ug/l	#	95
11) Tert butyl alcohol	3.07	59	64	Below Cal	#	1
13) Acrolein	2.35	56	48	Below Cal	#	14
15) Acrylonitrile	3.15	53	102	Below Cal	#	1
16) Acetone	2.45	43	6906	Below Cal	#	86
18) Methyl Acetate	2.78	43	449	Below Cal	#	65
19) Methyl tert-butyl Ether	3.25	73	74	Below Cal	#	54
20) Methylene Chloride	2.87	84	1075	Below Cal	#	53
22) Diisopropyl ether	3.85	45	79	Below Cal	#	36
28) Bromochloromethane	4.99	49	42	Below Cal	#	13
31) Cyclohexane	5.67	56	5556	1.273 ug/l	#	31
36) 1,1-Dichloropropene	5.67	75	17248	4.616 ug/l	#	50
38) Carbon Tetrachloride	5.67	117	22696	5.806 ug/l	#	15
39) Methylcyclohexane	7.46	83	19	0.267 ug/l	#	63
76) 1,2,3-Trichloropropane	11.14	75	105751	26.650 ug/l	#	32
81) trans-1,4-Dichloro-2-buten	11.14	75	105751	93.416 ug/l	#	7

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

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Quant Time: Jun 07 16:12:07 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002377.D

Acq: 07 Jun 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

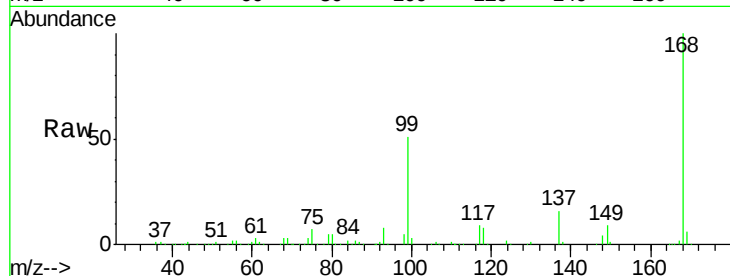
TB-01-180605

Tot Ion:168 Resp: 241741

Ion Ratio Lower Upper

168 100

99 51.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

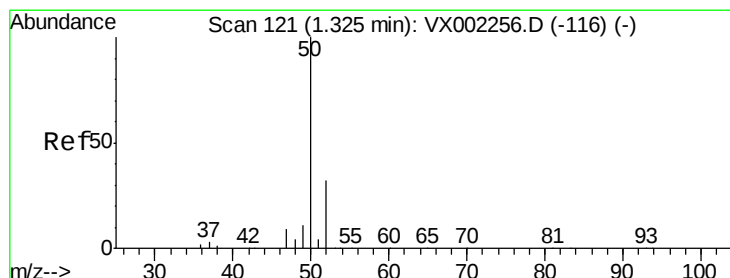
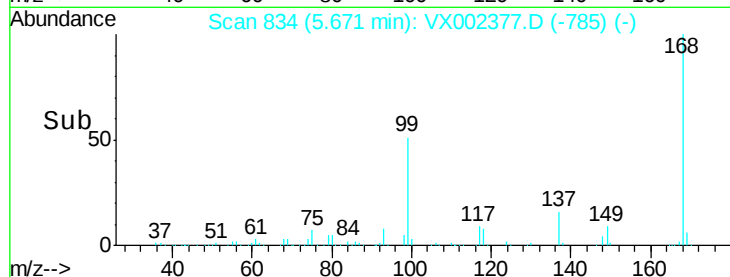
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002377.D

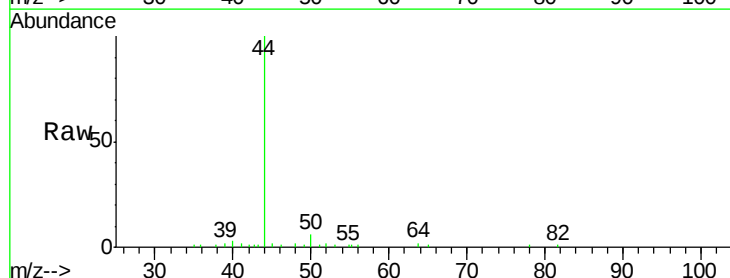
Acq: 07 Jun 2018 15:00

Tgt Ion: 50 Resp: 616

Ion Ratio Lower Upper

50 100

52 25.9 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

500

400

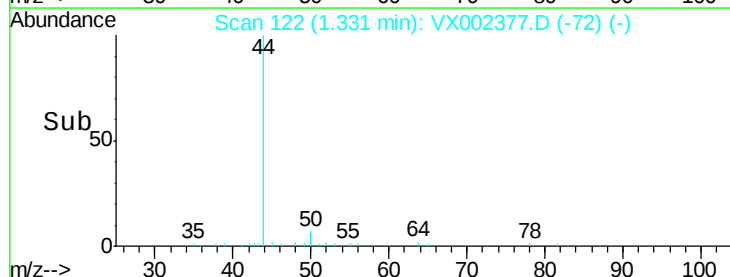
300

200

100

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002377.D

Acq: 07 Jun 2018 15:00

Instrument :

MSVOA_X

ClientSampled :

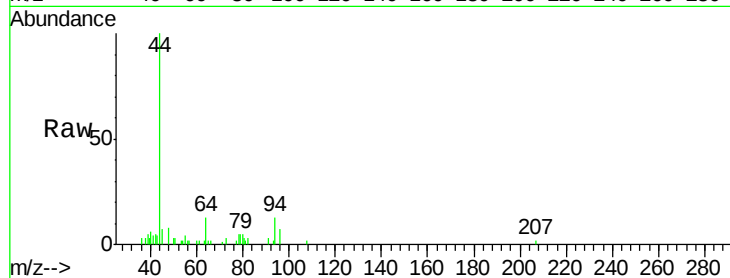
TB-01-180605

Tot Ion: 94 Resp: 1245

Ion Ratio Lower Upper

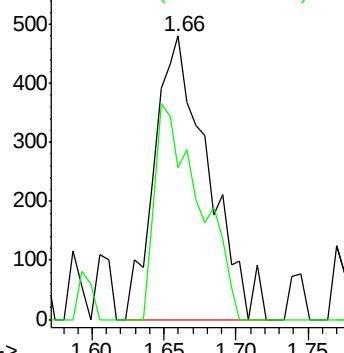
94 100

96 53.5 74.9 112.3#

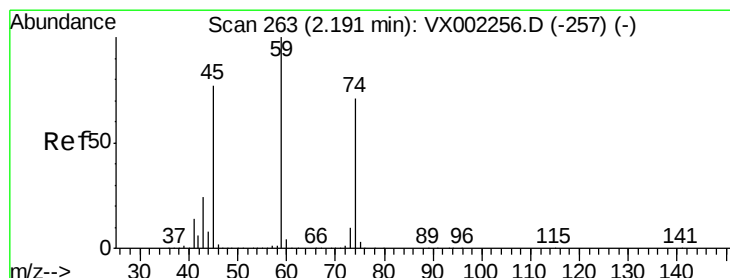
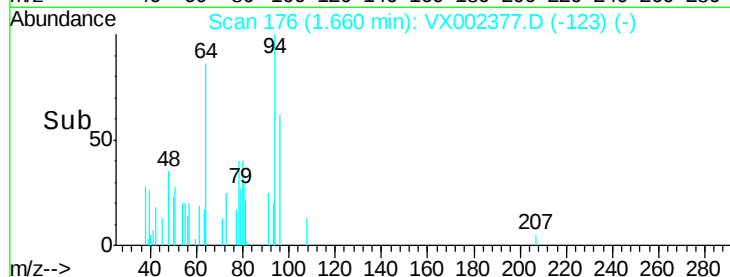


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 2.22 min Scan# 268

Delta R.T. 0.03 min

Lab File: VX002377.D

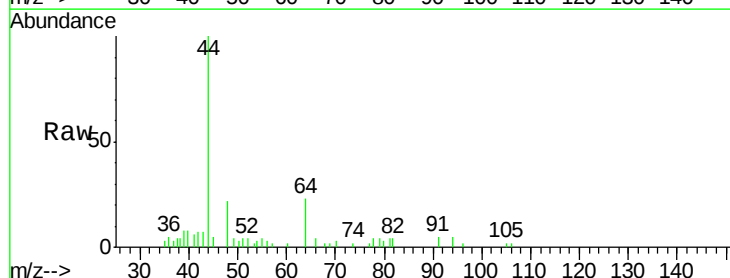
Acq: 07 Jun 2018 15:00

Tgt Ion: 74 Resp: 23

Ion Ratio Lower Upper

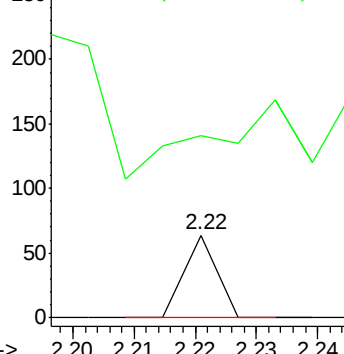
74 100

45 0.0 53.1 159.4#

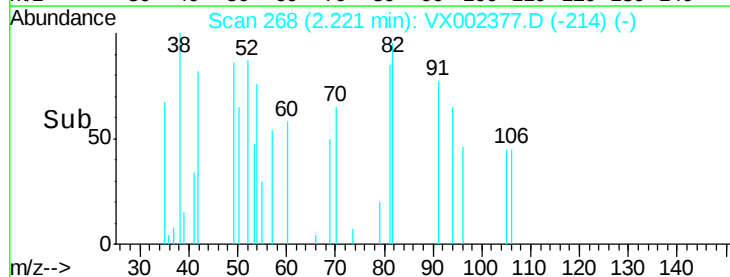


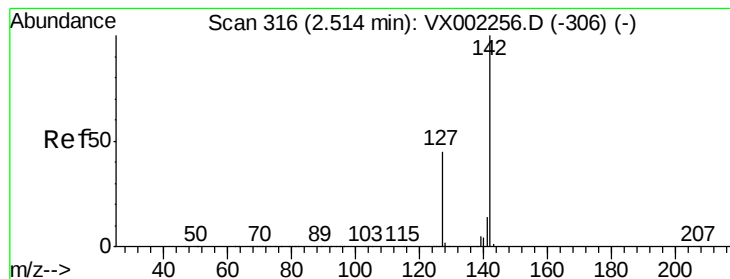
Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->





#10

Methyl Iodide

Concen: 0.359 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002377.D

Acq: 07 Jun 2018 15:00

Instrument :

MSVOA_X

ClientSampled :

TB-01-180605

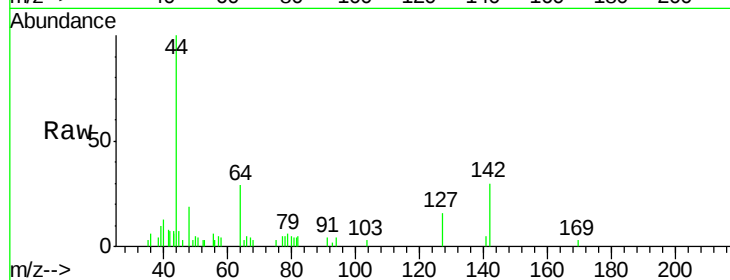
Tot Ion:142 Resp: 1316

Ion Ratio Lower Upper

142 100

127 48.0 36.6 55.0

141 17.6 11.3 16.9#

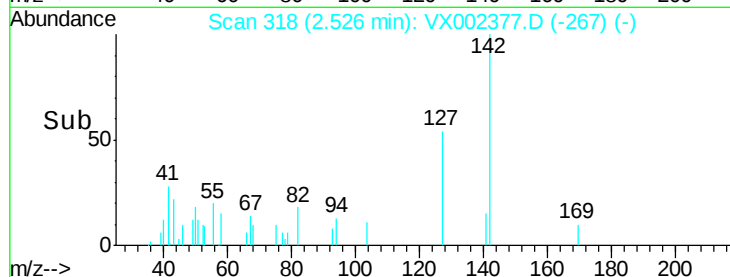


Abundance Ion 141.80 (141.50 to 142.50): V

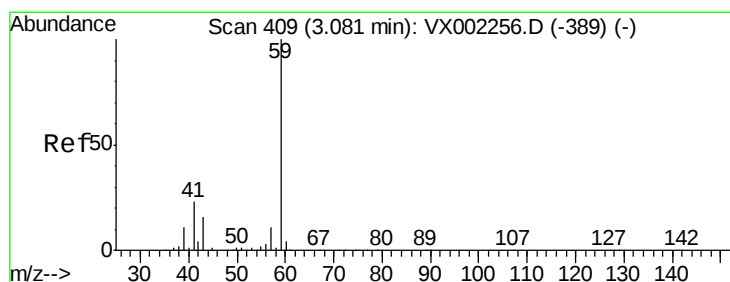
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

Time-->



Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX002377.D

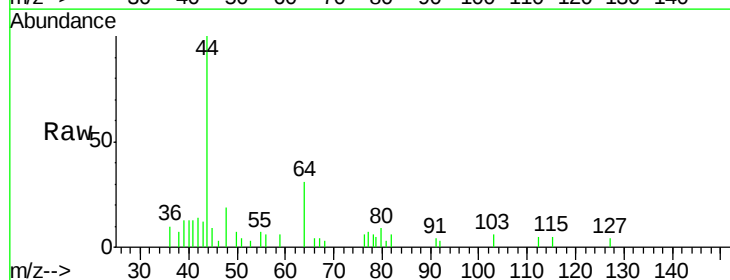
Acq: 07 Jun 2018 15:00

Tgt Ion: 59 Resp: 64

Ion Ratio Lower Upper

59 100

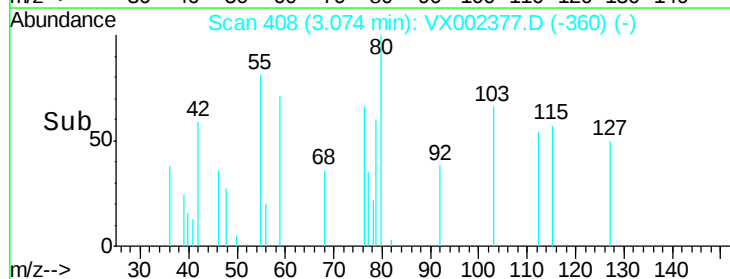
57 153.1 8.2 12.2#



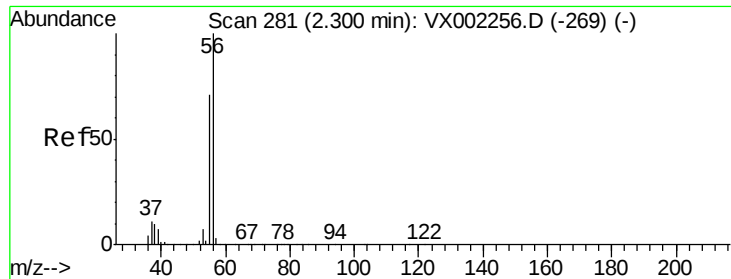
Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Time-->



Time-->



#13

Acrolein

Concen: Below Cal

RT: 2.35 min Scan# 290

Delta R.T. 0.05 min

Lab File: VX002377.D

Acq: 07 Jun 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

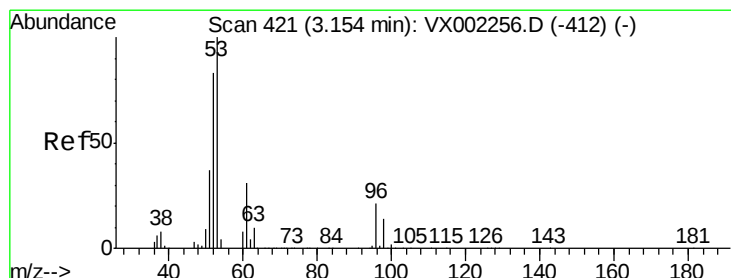
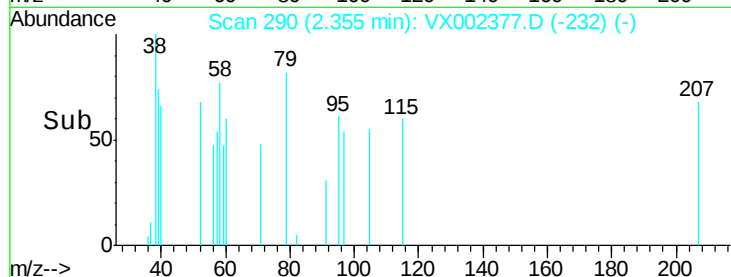
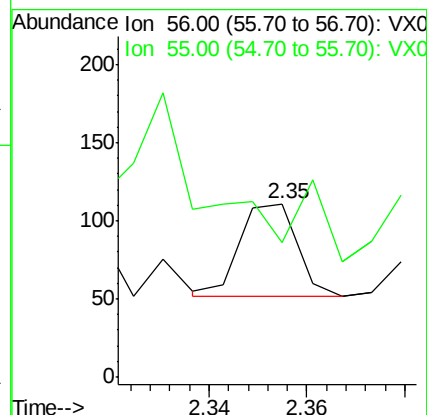
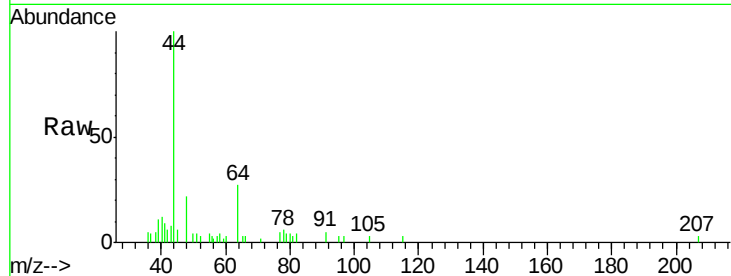
TB-01-180605

Tot Ion: 56 Resp: 48

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002377.D

Acq: 07 Jun 2018 15:00

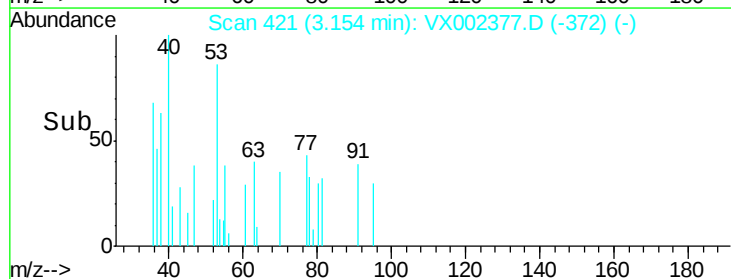
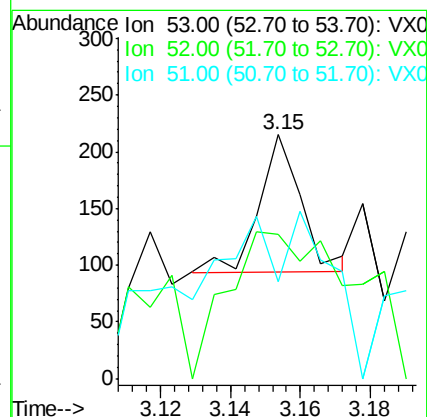
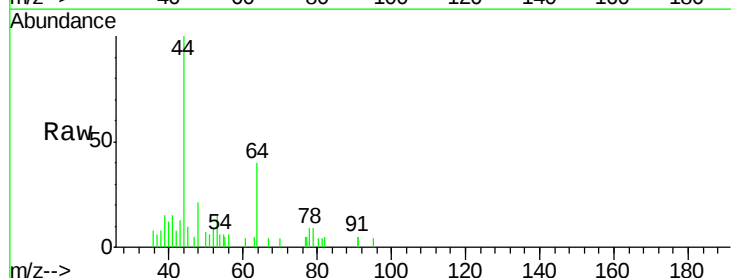
Tgt Ion: 53 Resp: 102

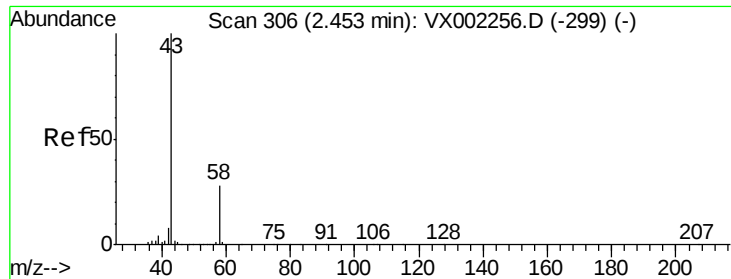
Ion Ratio Lower Upper

53 100

52 356.9 66.7 100.1#

51 266.7 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002377.D

Acq: 07 Jun 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

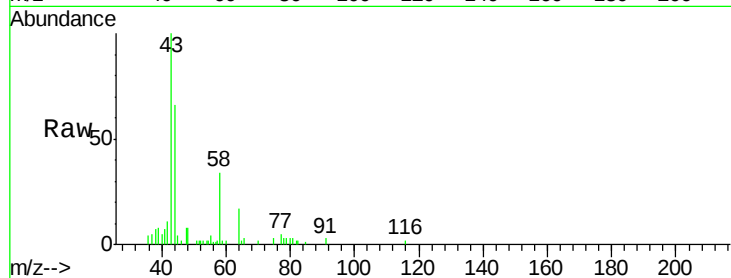
TB-01-180605

Tot Ion: 43 Resp: 6906

Ion Ratio Lower Upper

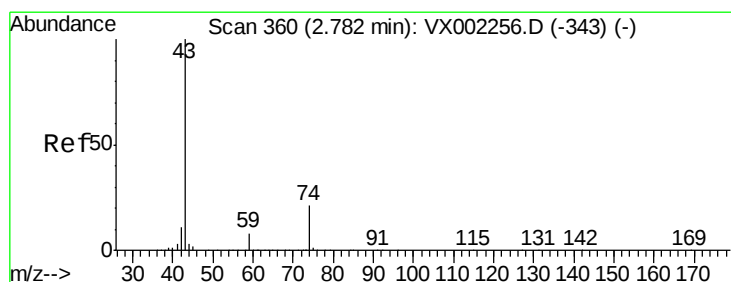
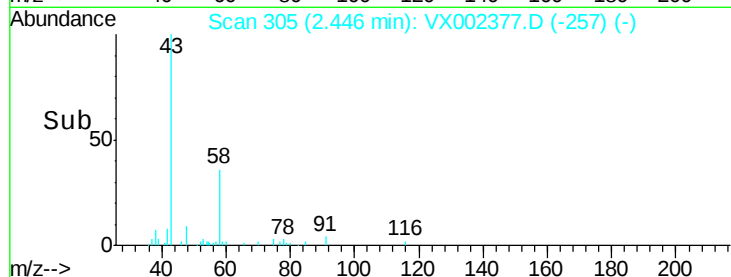
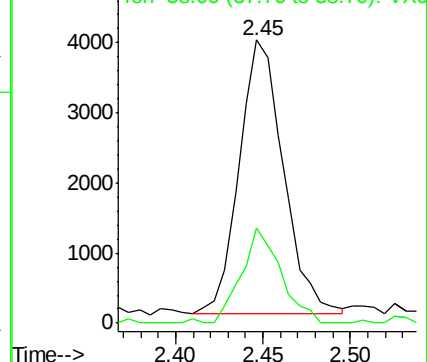
43 100

58 34.9 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 359

Delta R.T. -0.01 min

Lab File: VX002377.D

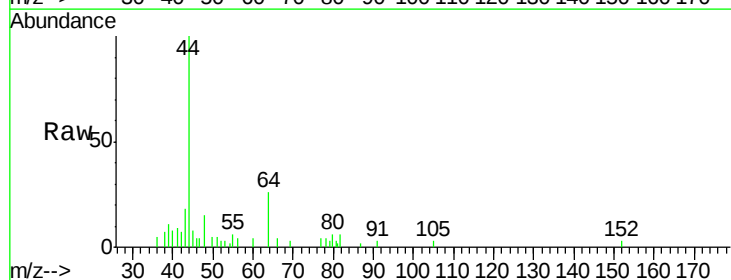
Acq: 07 Jun 2018 15:00

Tgt Ion: 43 Resp: 449

Ion Ratio Lower Upper

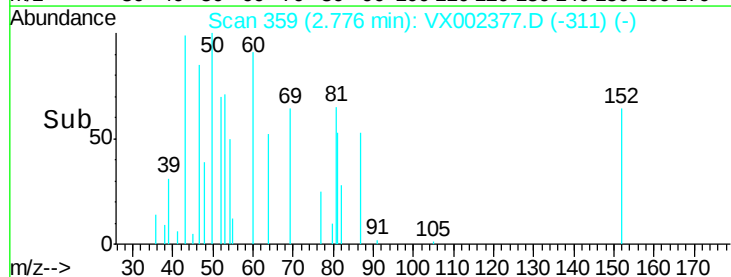
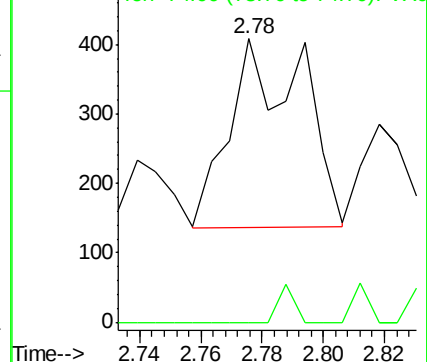
43 100

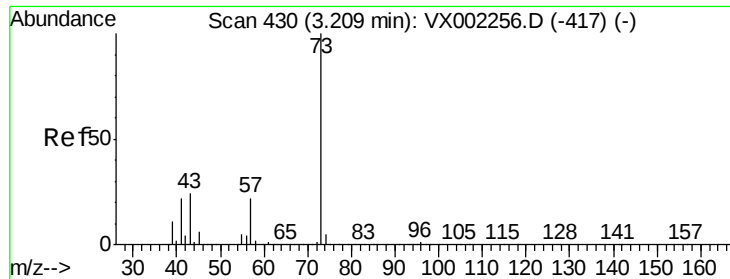
74 4.5 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

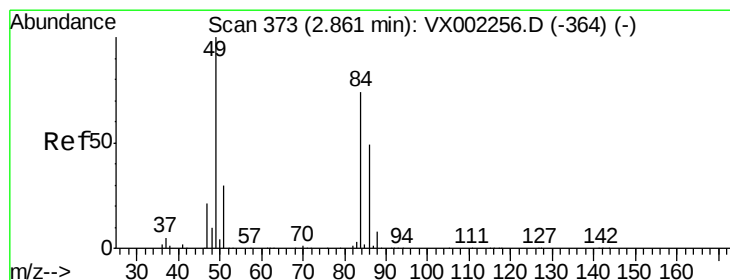
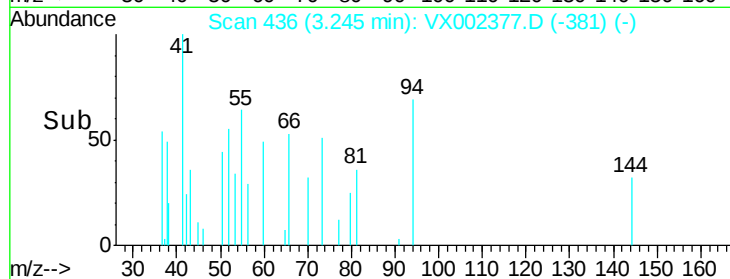
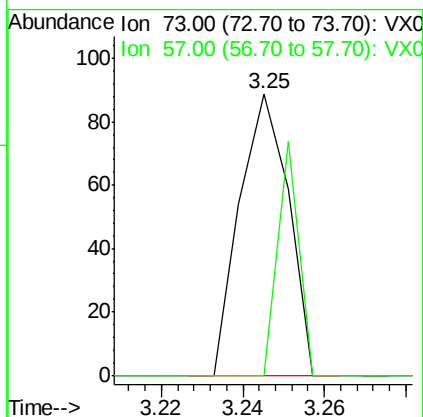
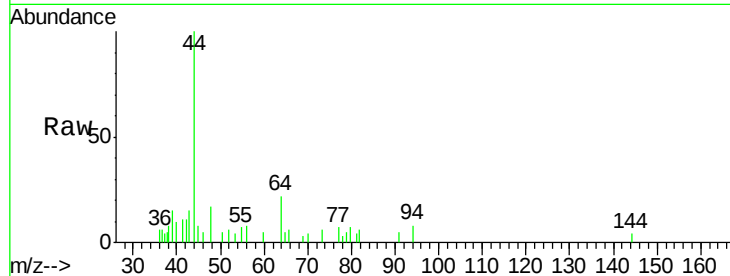




#19
Methvl tert-butvl Ether
Concen: Below Cal
RT: 3.25 min Scan# 436
Delta R.T. 0.04 min
Lab File: VX002377.D
Acq: 07 Jun 2018 15:00

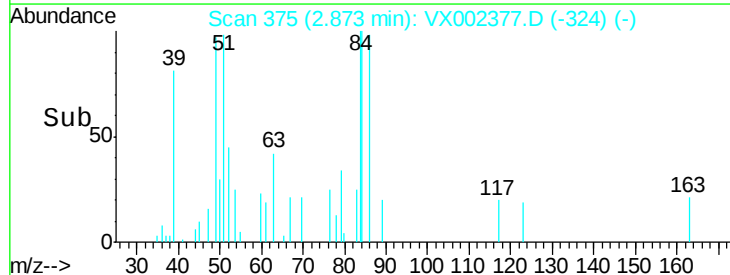
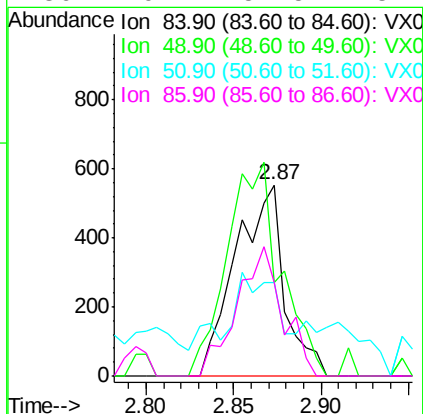
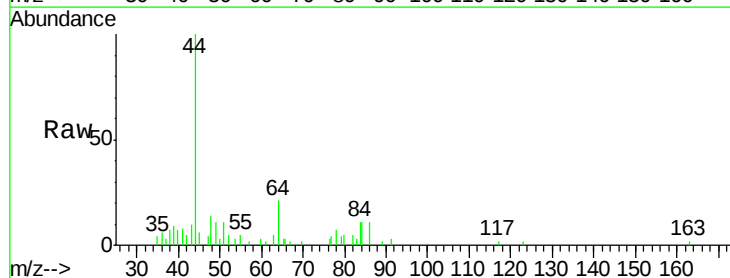
Instrument :
MSVOA_X
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TB-01-180605

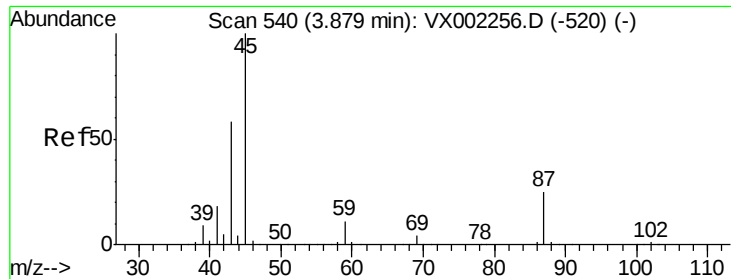
Tot Ion: 73 Resp: 74
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 375
Delta R.T. 0.01 min
Lab File: VX002377.D
Acq: 07 Jun 2018 15:00

Tgt Ion: 84 Resp: 1075
Ion Ratio Lower Upper
84 100
49 48.7 107.8 161.6#
51 35.7 32.8 49.2
86 49.1 52.5 78.7#



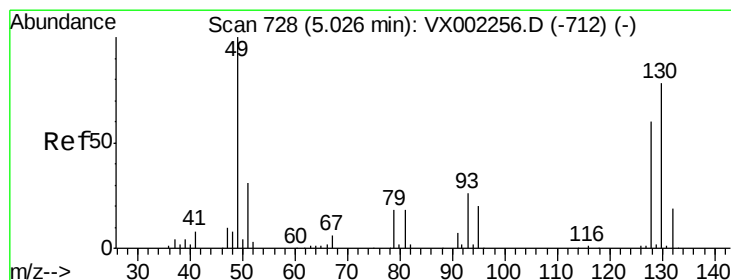
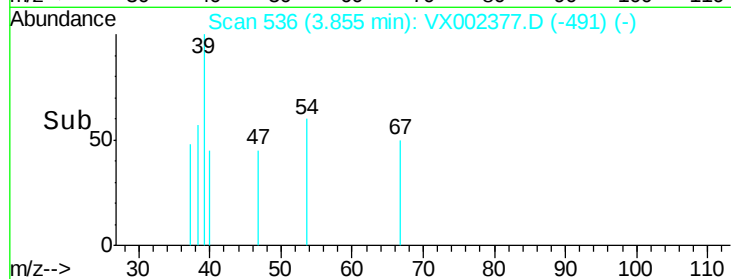
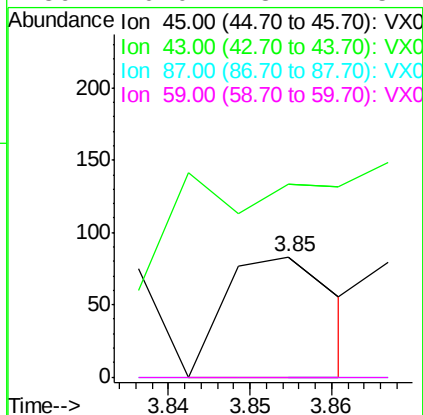
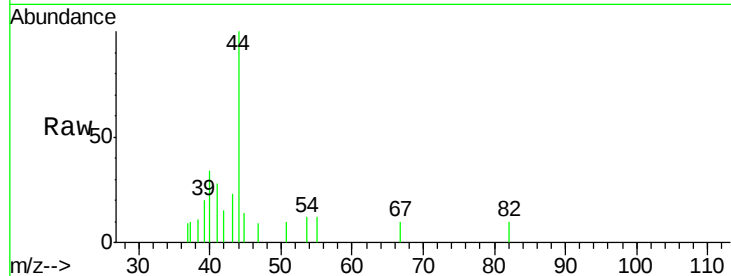


#22

Diisopropyl ether
Concen: Below Cal
RT: 3.85 min Scan# 536
Delta R.T. -0.02 min
Lab File: VX002377.D
Acq: 07 Jun 2018 15:00

Instrument :
MSVOA_X
ClientSampleID :
TB-01-180605

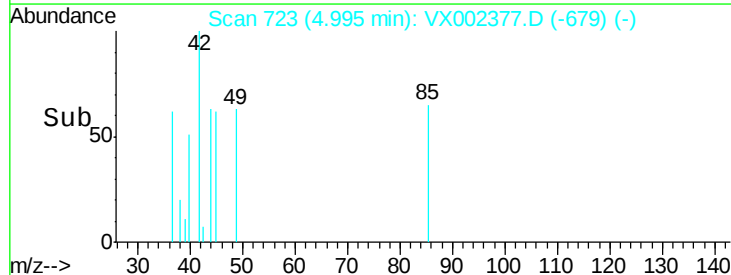
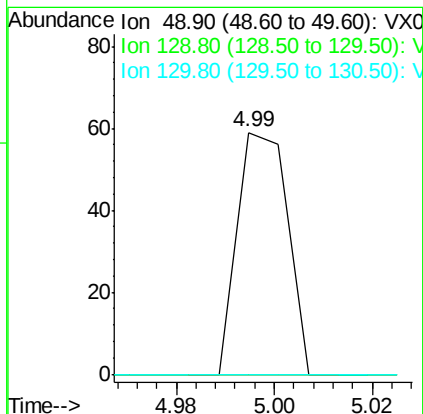
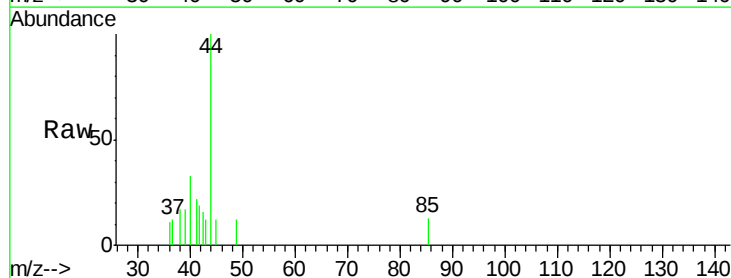
Tot Ion:	45	Resp:	79
Ion	Ratio	Lower	Upper
45	100		
43	1.2	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

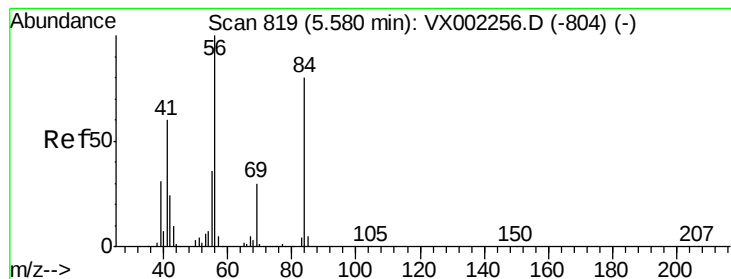


#28

Bromochloromethane
Concen: Below Cal
RT: 4.99 min Scan# 723
Delta R.T. -0.03 min
Lab File: VX002377.D
Acq: 07 Jun 2018 15:00

Tgt Ion:	49	Resp:	42
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	0.0	61.2	91.8#





#31

Cyclohexane

Concen: 1.273 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002377.D

Acq: 07 Jun 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

TB-01-180605

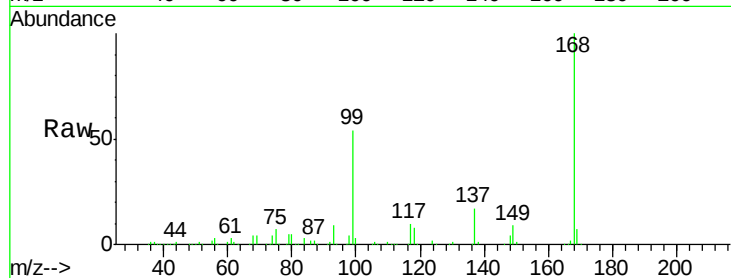
Tot Ion: 56 Resp: 5556

Ion Ratio Lower Upper

56 100

69 135.5 23.7 35.5#

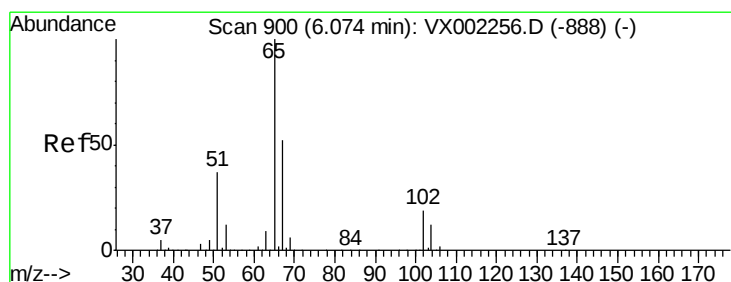
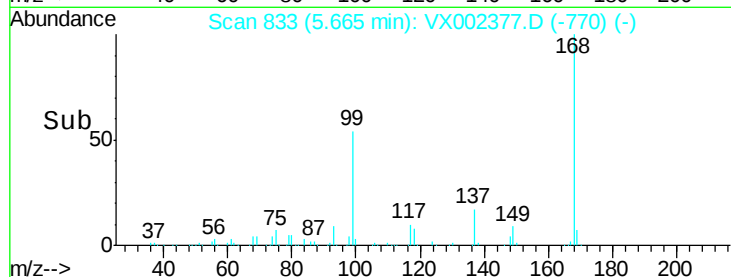
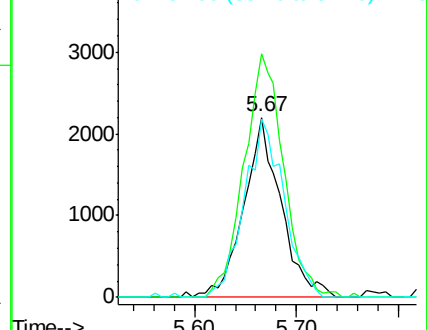
84 99.0 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 55.299 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002377.D

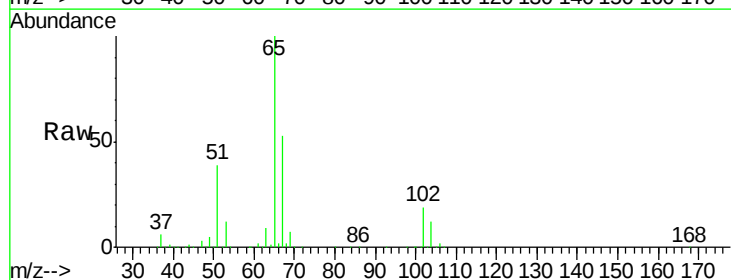
Acq: 07 Jun 2018 15:00

Tgt Ion: 65 Resp: 189896

Ion Ratio Lower Upper

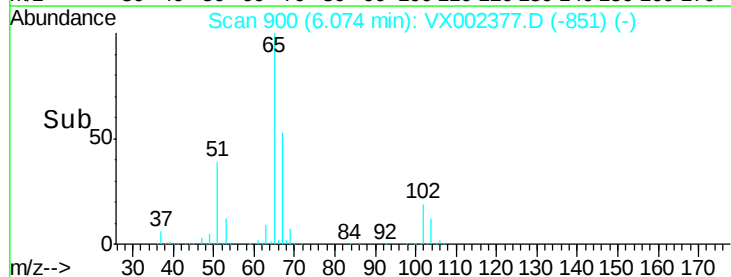
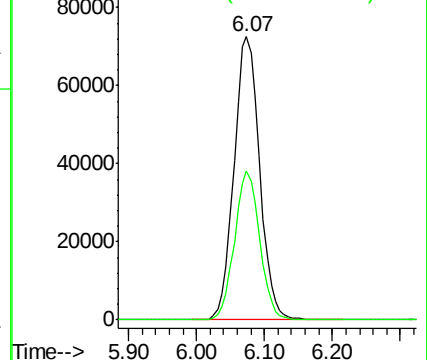
65 100

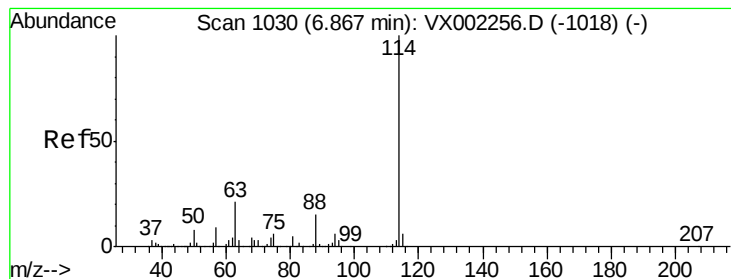
67 51.6 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002377.D

Acq: 07 Jun 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

TB-01-180605

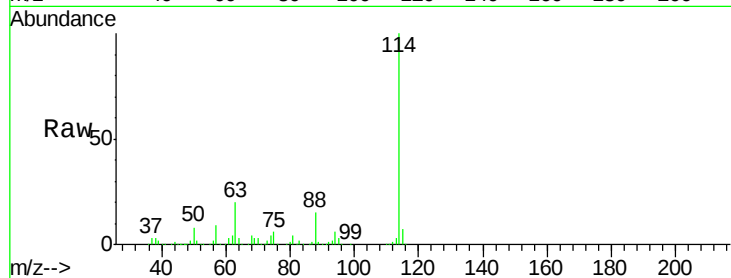
Tot Ion:114 Resp: 355444

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.4

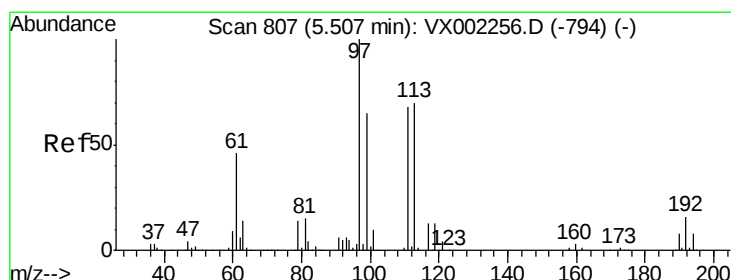
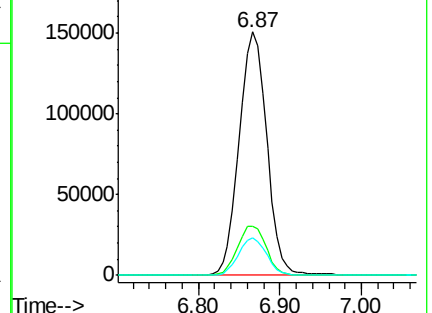
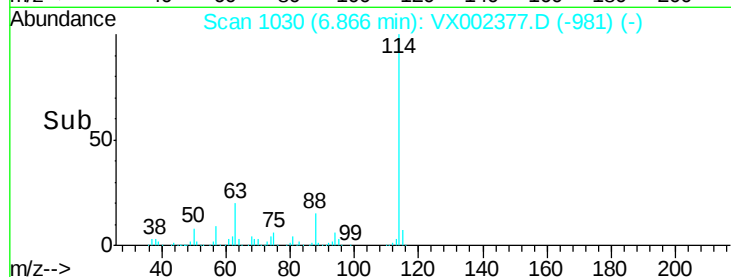
88 15.5 0.0 30.0



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



#35

Dibromofluoromethane

Concen: 50.060 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002377.D

Acq: 07 Jun 2018 15:00

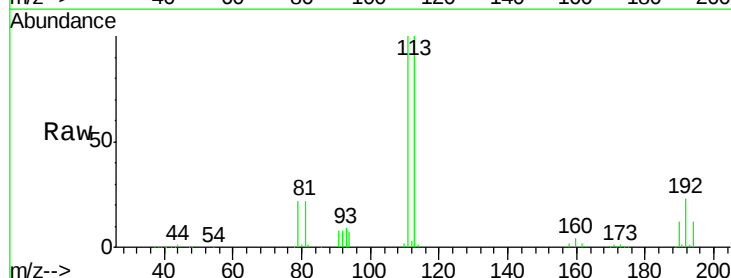
Tgt Ion:113 Resp: 139930

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.0

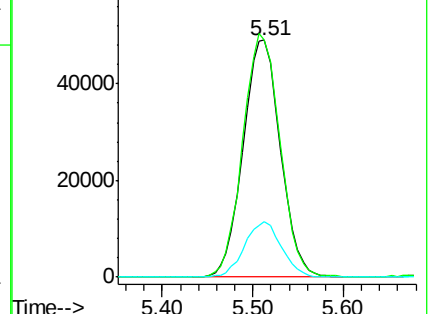
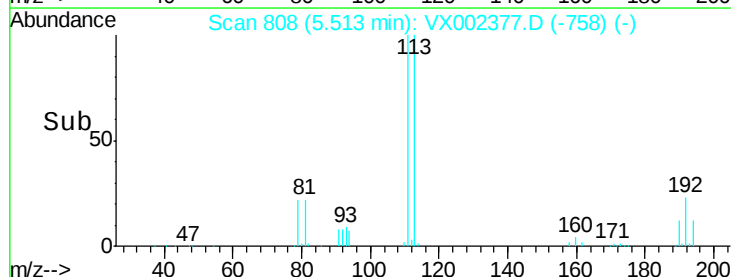
192 23.1 19.1 28.7

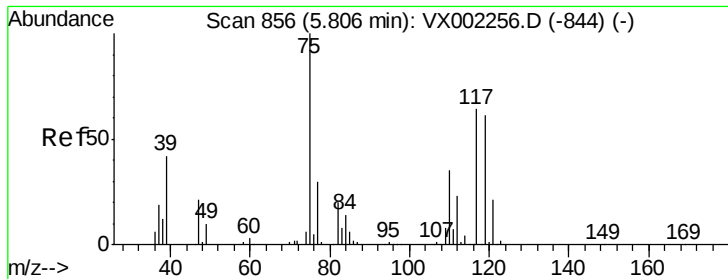


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.616 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002377.D

Acq: 07 Jun 2018 15:00

Instrument :

MSVOA_X

ClientSampled :

TB-01-180605

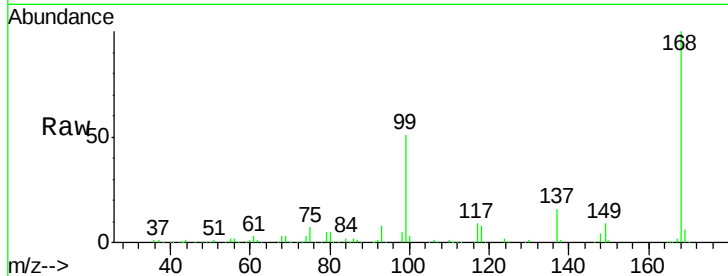
Tot Ion: 75 Resp: 17248

Ion Ratio Lower Upper

75 100

110 9.8 18.1 54.4#

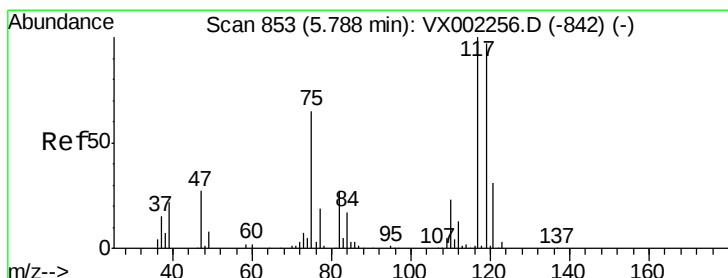
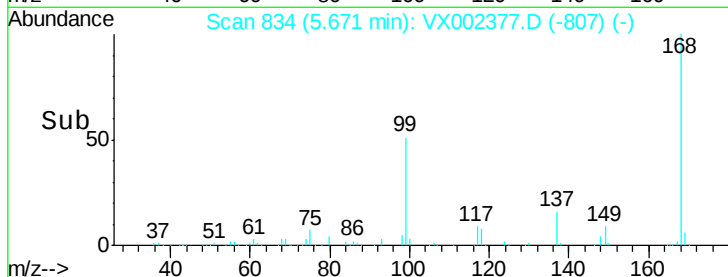
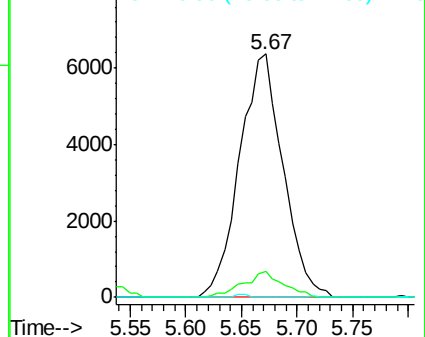
77 0.0 24.3 36.5#



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: 5.806 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002377.D

Acq: 07 Jun 2018 15:00

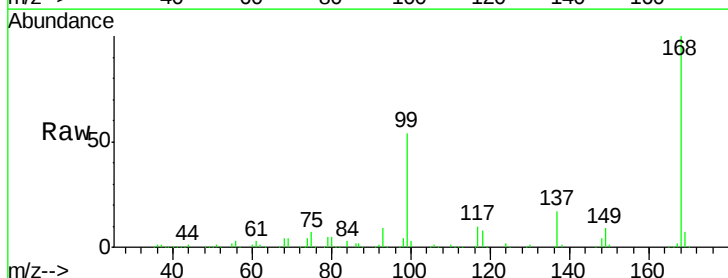
Tgt Ion: 117 Resp: 22696

Ion Ratio Lower Upper

117 100

119 4.7 77.4 116.0#

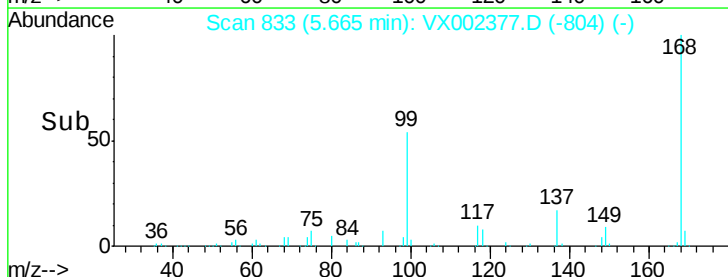
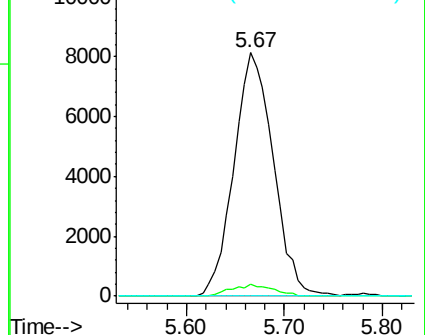
121 0.0 24.4 36.6#

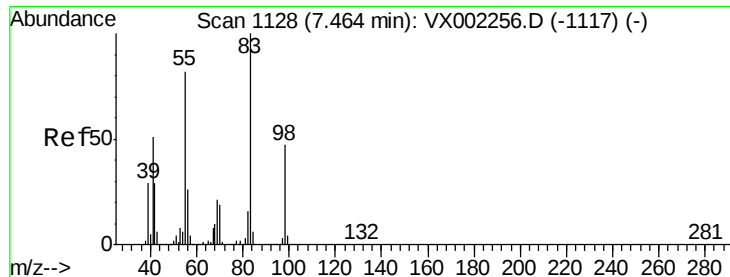


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

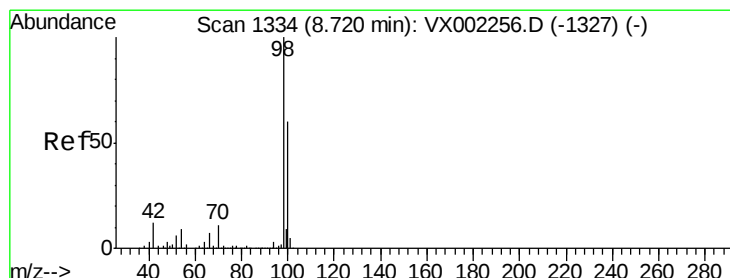
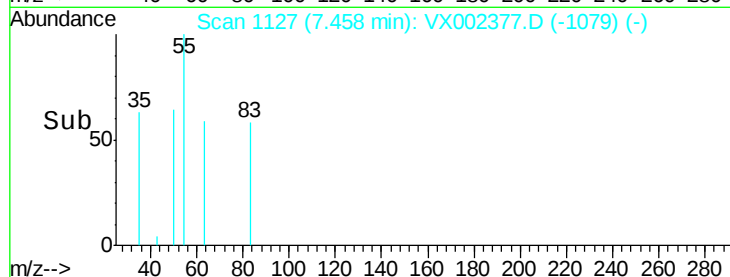
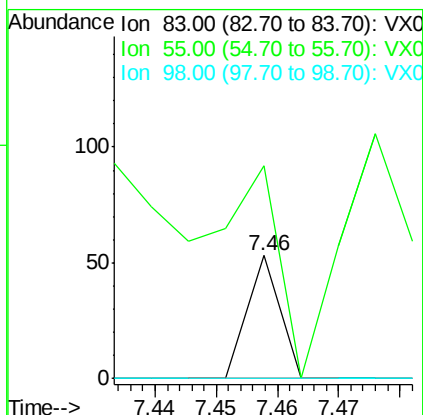
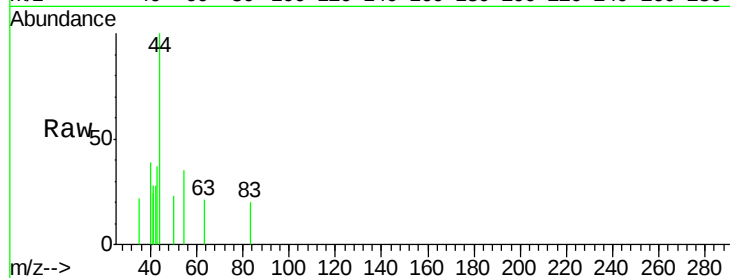




#39
Methvlcvclohexane
Concen: 0.267 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VX002377.D
Acq: 07 Jun 2018 15:00

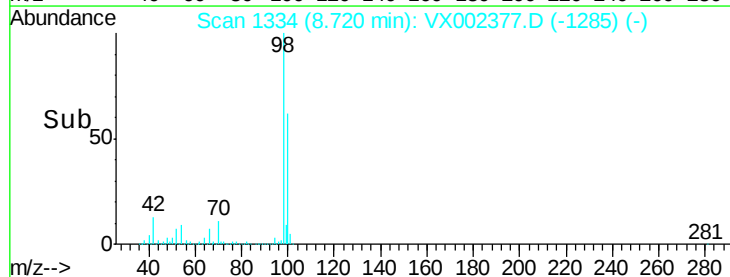
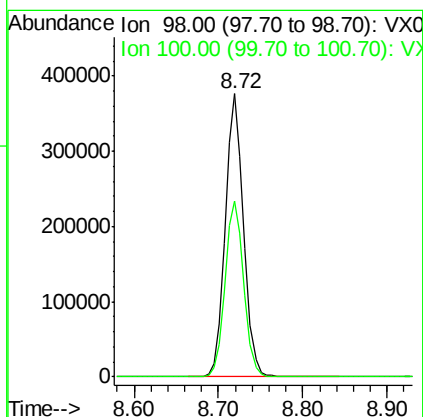
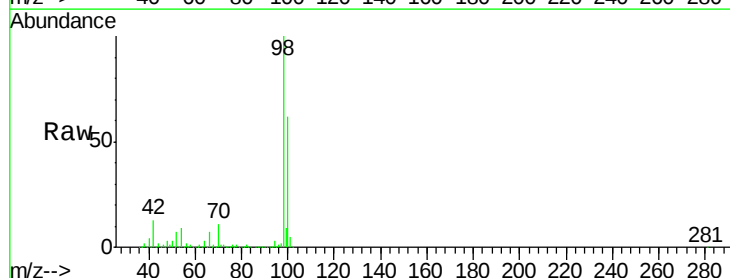
Instrument :
MSVOA_X
ClientSampleId :
TB-01-180605

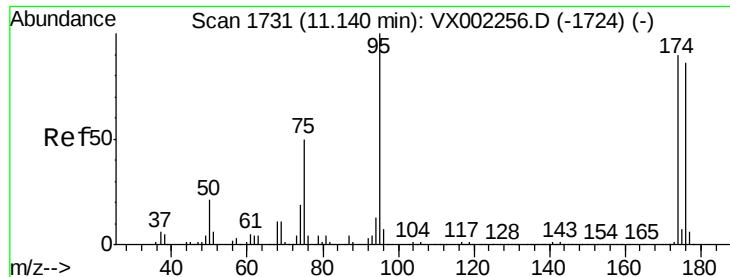
Tot Ion: 83 Resp: 19
Ion Ratio Lower Upper
83 100
55 66.0 65.4 98.0
98 0.0 37.4 56.0#



#50
Toluene-d8
Concen: 52.257 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002377.D
Acq: 07 Jun 2018 15:00

Tgt Ion: 98 Resp: 559880
Ion Ratio Lower Upper
98 100
100 63.6 50.9 76.3





#62

4-Bromofluorobenzene

Concen: 46.940 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002377.D

Acq: 07 Jun 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

TB-01-180605

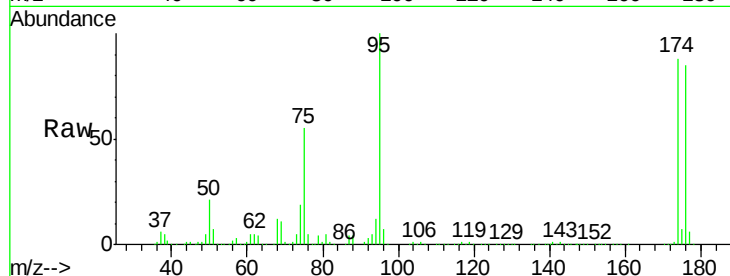
Tot Ion: 95 Resp: 193932

Ion Ratio Lower Upper

95 100

174 92.7 0.0 187.4

176 90.4 0.0 181.0



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

200000

150000

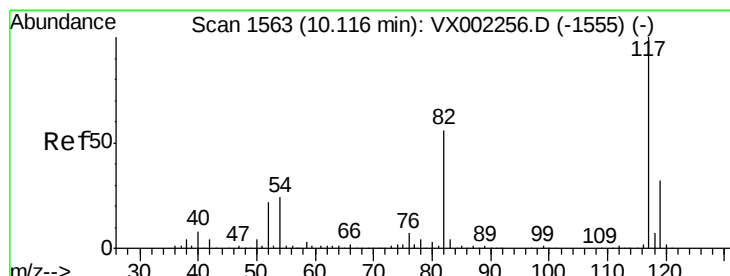
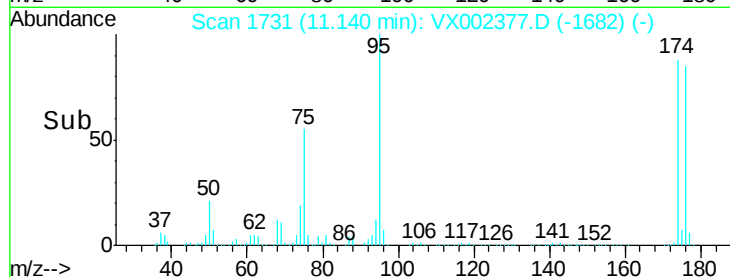
100000

50000

0

11.10 11.15 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002377.D

Acq: 07 Jun 2018 15:00

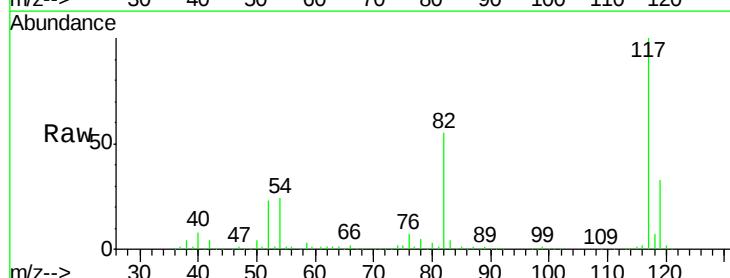
Tgt Ion: 117 Resp: 325599

Ion Ratio Lower Upper

117 100

82 55.3 45.0 67.4

119 32.5 25.8 38.6



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

300000

250000

200000

150000

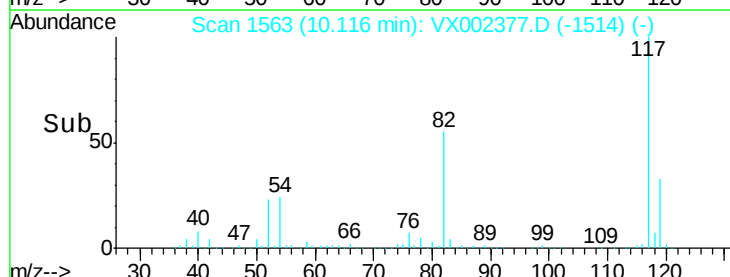
100000

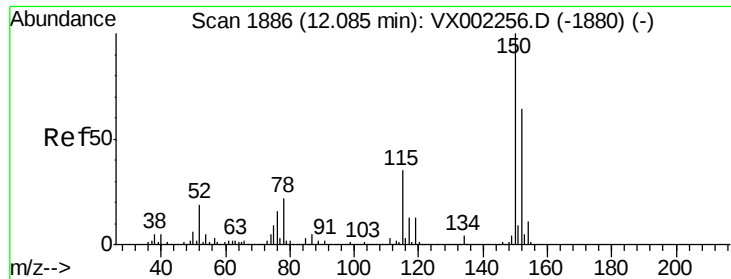
50000

0

10.00 10.10 10.20 10.30

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002377.D

Acq: 07 Jun 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

TB-01-180605

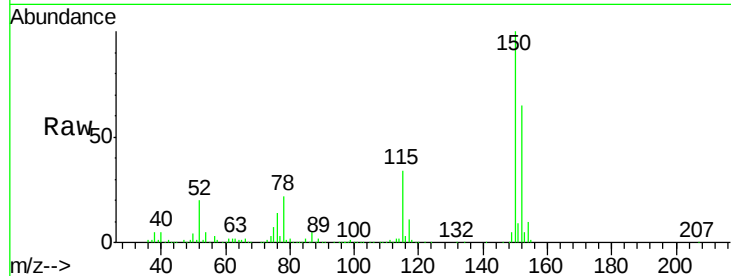
Tot Ion:152 Resp: 180844

Ion Ratio Lower Upper

152 100

115 54.4 40.1 120.2

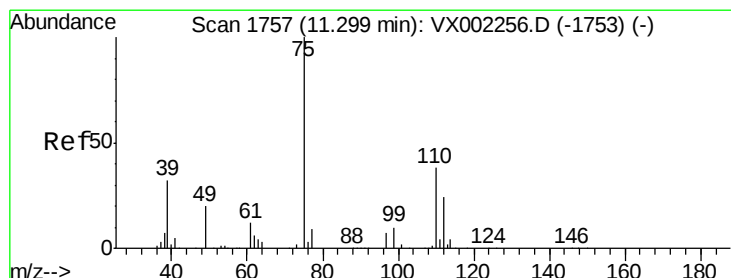
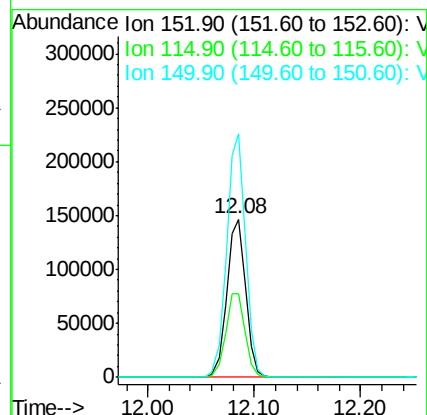
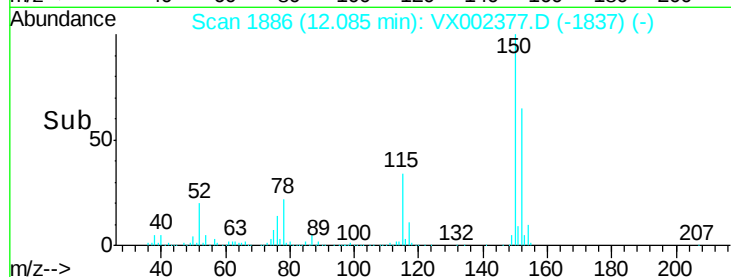
150 154.0 0.0 347.2



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: 26.650 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002377.D

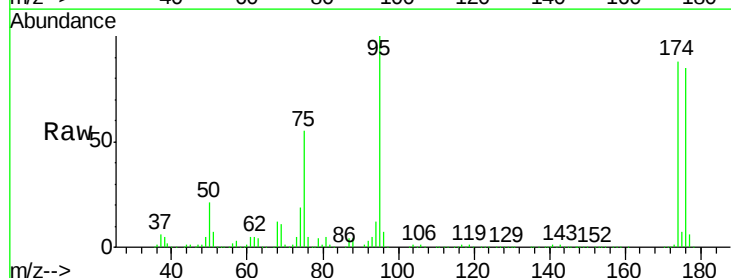
Acq: 07 Jun 2018 15:00

Tgt Ion: 75 Resp: 105751

Ion Ratio Lower Upper

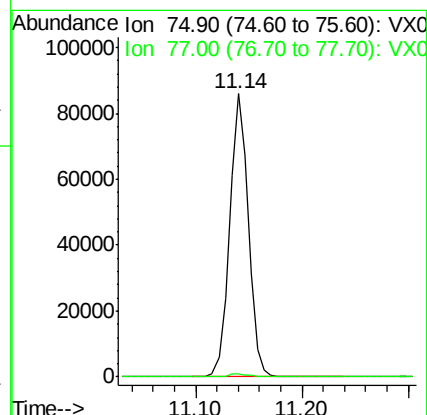
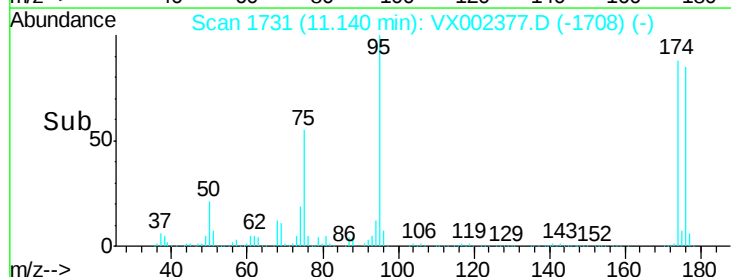
75 100

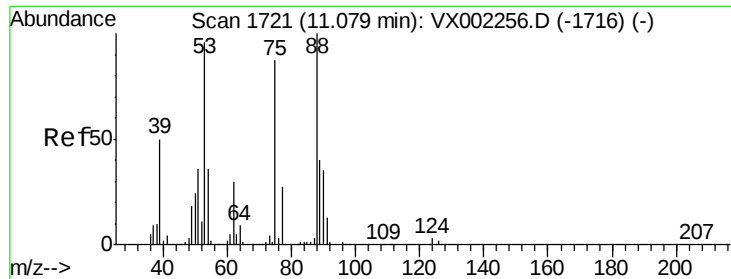
77 1.0 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 93.416 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002377.D

Acq: 07 Jun 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

TB-01-180605

Tot Ion: 75 Resp: 105751

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.1 38.2 57.2#

