

Data Path : Y:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060418\
 Data File : VX002271.D
 Acq On : 04 Jun 2018 20:07
 Operator : JC/MD
 Sample : J3234-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF6-0053

Quant Time: Jun 05 05:01:41 2018
 Quant Method : Y:\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	256768	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	370802	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	340844	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	191471	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	179771	48.88	ug/l	0.00
Spiked Amount			Recovery	=	97.76%	
35) Dibromofluoromethane	5.51	113	130114	44.62	ug/l	0.00
Spiked Amount			Recovery	=	89.24%	
50) Toluene-d8	8.72	98	532975	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
62) 4-Bromofluorobenzene	11.14	95	189300	43.92	ug/l	0.00
Spiked Amount			Recovery	=	87.84%	

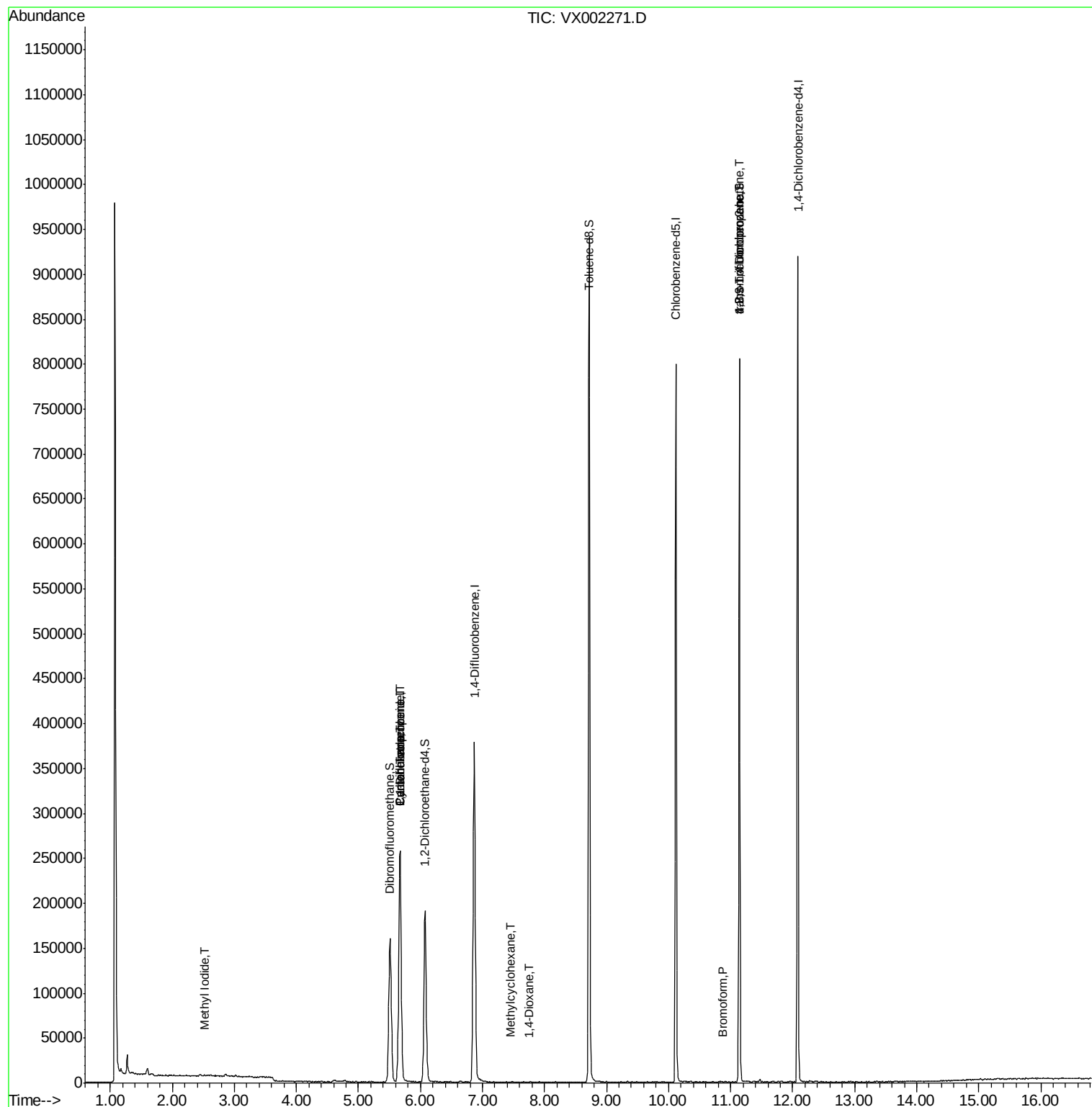
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	724	Below Cal	#	83
5) Bromomethane	1.66	94	1552	Below Cal		98
8) Diethyl Ether	2.27	74	52	Below Cal		86
10) Methyl Iodide	2.51	142	1484	0.38	ug/l #	98
11) Tert butyl alcohol	3.09	59	78	Below Cal	#	1
13) Acrolein	2.28	56	241	Below Cal		84
15) Acrylonitrile	3.16	53	227	Below Cal	#	52
16) Acetone	2.45	43	1872	Below Cal	#	83
18) Methyl Acetate	2.79	43	170	Below Cal	#	79
19) Methyl tert-butyl Ether	3.20	73	40	Below Cal	#	36
20) Methylene Chloride	2.86	84	829	Below Cal	#	41
22) Diisopropyl ether	3.88	45	137	Below Cal	#	21
28) Bromochloromethane	5.00	49	20	Below Cal	#	13
31) Cyclohexane	5.67	56	5758	1.24	ug/l #	11
36) 1,1-Dichloropropene	5.67	75	18414	4.72	ug/l #	51
38) Carbon Tetrachloride	5.67	117	23710	5.81	ug/l #	16
39) Methylcyclohexane	7.46	83	71	0.28	ug/l #	67
49) 1,4-Dioxane	7.76	88	23	0.31	ug/l #	1
71) Bromoform	10.87	173	143	3.51	ug/l #	28
76) 1,2,3-Trichloropropane	11.14	75	102553	24.41	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	102553	85.56	ug/l #	7

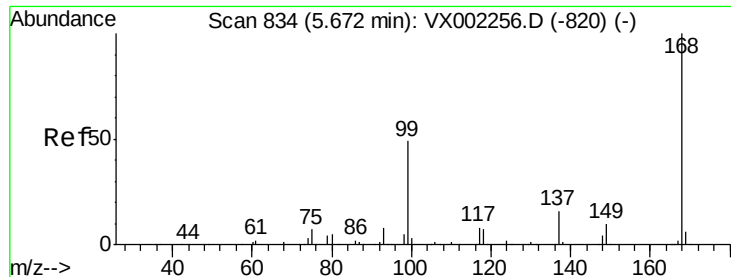
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002271.D

Acq: 04 Jun 2018 20:07

Instrument :

MSVOA_X

ClientSampled :

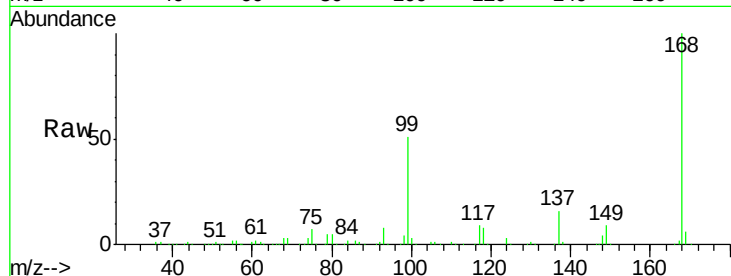
LF6-0053

Tot Ion:168 Resp: 256768

Ion Ratio Lower Upper

168 100

99 50.5 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

100000

80000

60000

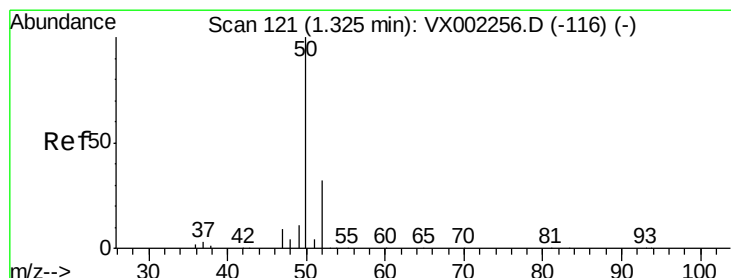
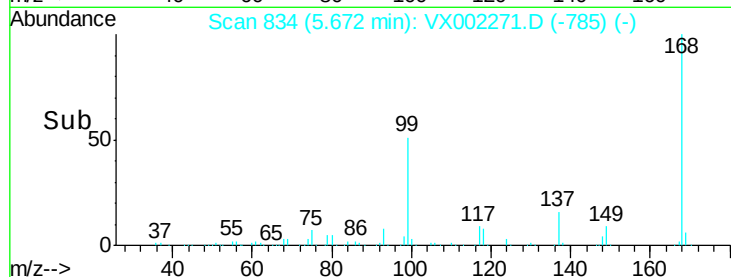
40000

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: VX002271.D

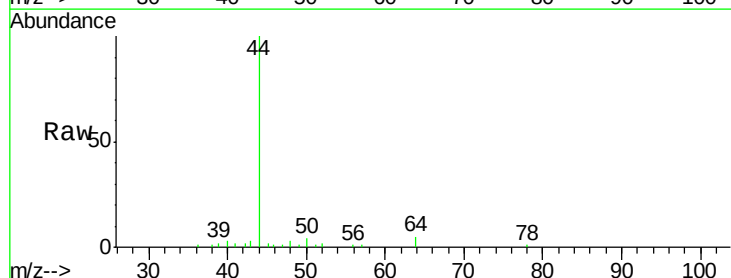
Acq: 04 Jun 2018 20:07

Tgt Ion: 50 Resp: 724

Ion Ratio Lower Upper

50 100

52 41.5 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

400

300

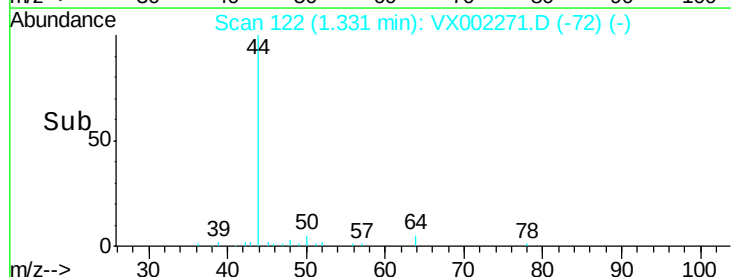
200

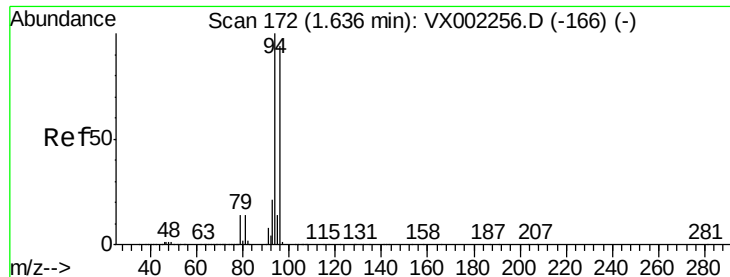
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002271.D

Acq: 04 Jun 2018 20:07

Instrument :

MSVOA_X

ClientSampleId :

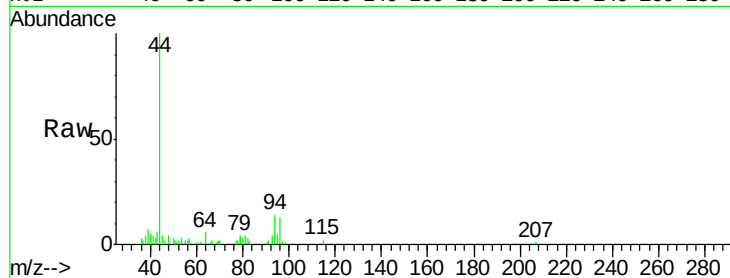
LF6-0053

Tot Ion: 94 Resp: 1552

Ion Ratio Lower Upper

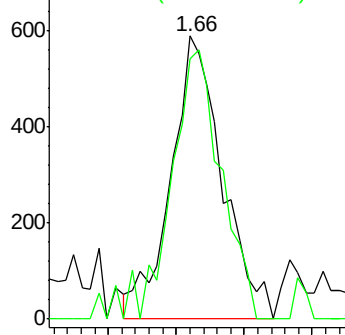
94 100

96 92.0 74.9 112.3

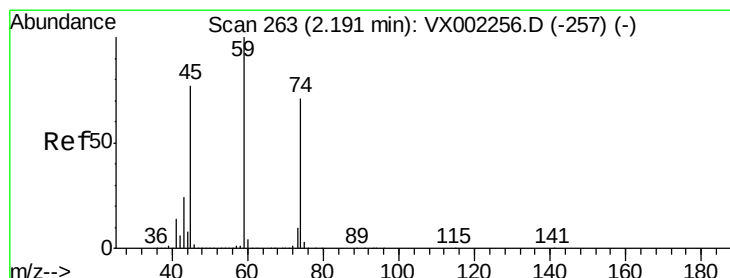
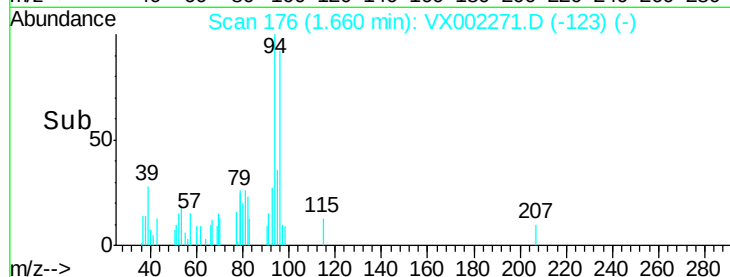


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 2.27 min Scan# 276

Delta R.T. 0.08 min

Lab File: VX002271.D

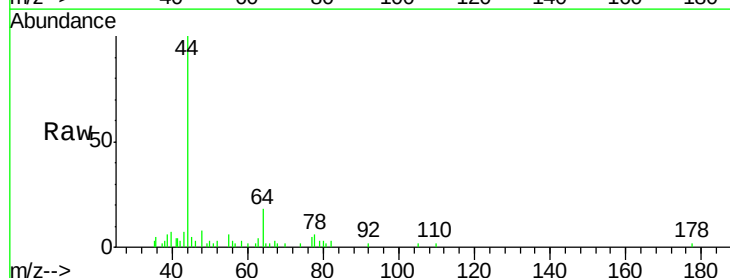
Acq: 04 Jun 2018 20:07

Tgt Ion: 74 Resp: 52

Ion Ratio Lower Upper

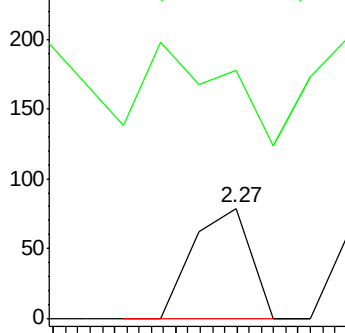
74 100

45 121.2 53.1 159.4

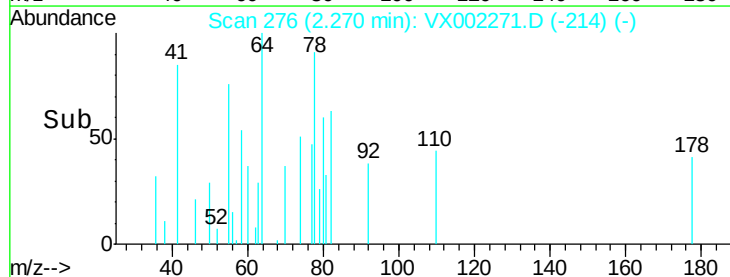


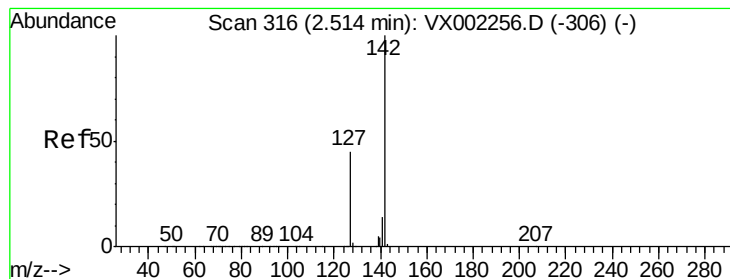
Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->





#10

Methvl Iodide

Concen: 0.38 ua/l

RT: 2.51 min Scan# 316

Delta R.T. -0.00 min

Lab File: VX002271.D

Acq: 04 Jun 2018 20:07

Instrument :

MSVOA_X

ClientSampleId :

LF6-0053

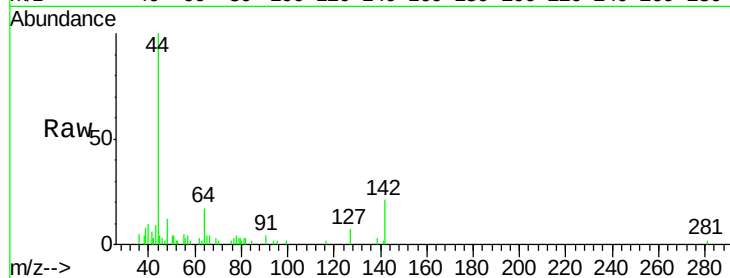
Tot Ion:142 Resp: 1484

Ion Ratio Lower Upper

142 100

127 46.3 36.6 55.0

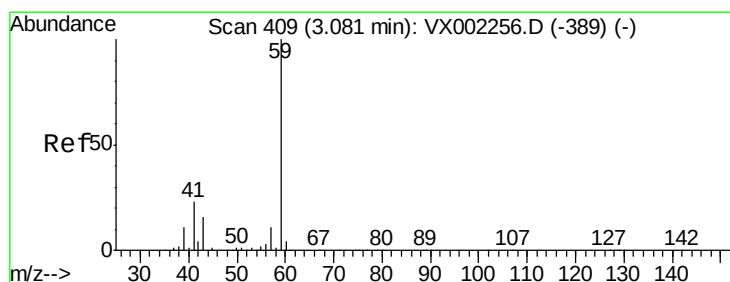
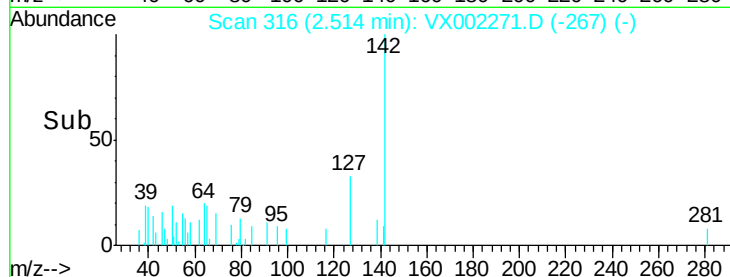
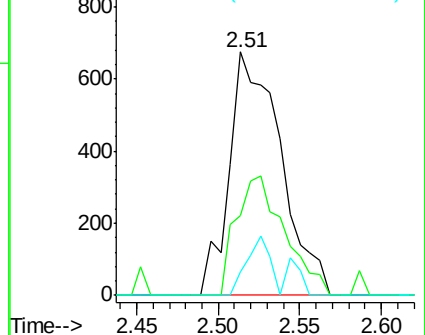
141 11.1 11.3 16.9#



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



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.09 min Scan# 410

Delta R.T. 0.01 min

Lab File: VX002271.D

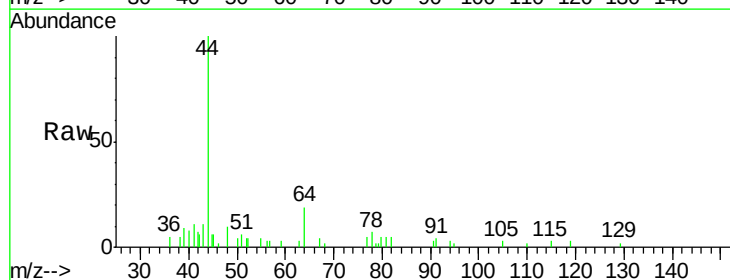
Acq: 04 Jun 2018 20:07

Tgt Ion: 59 Resp: 78

Ion Ratio Lower Upper

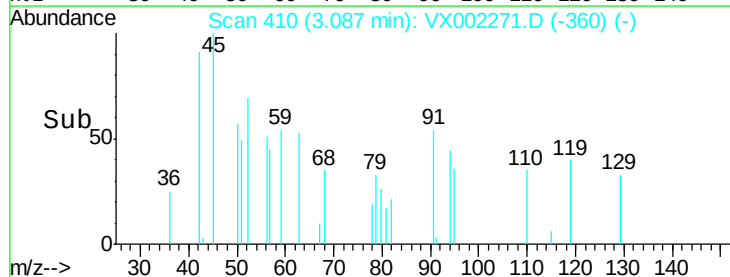
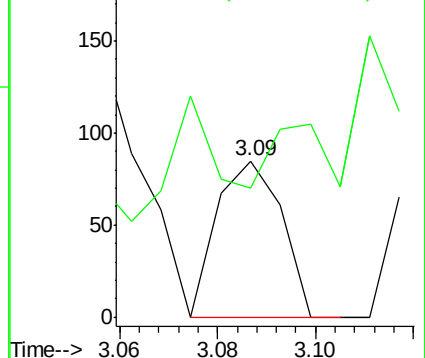
59 100

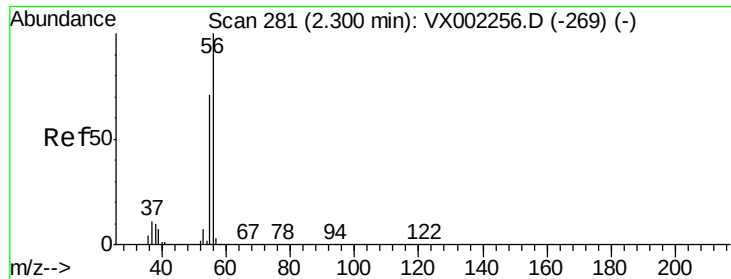
57 59.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.28 min Scan# 278

Delta R.T. -0.02 min

Lab File: VX002271.D

Acq: 04 Jun 2018 20:07

Instrument :

MSVOA_X

ClientSampled :

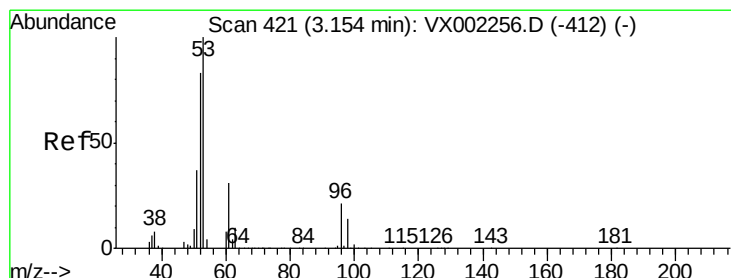
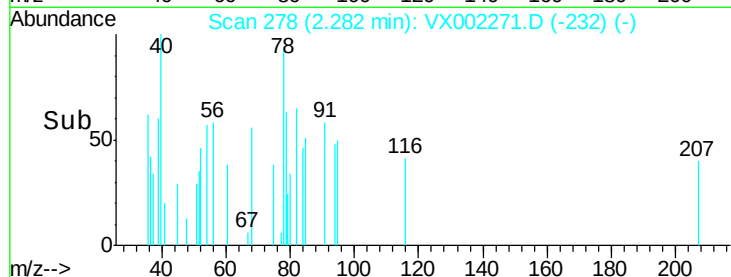
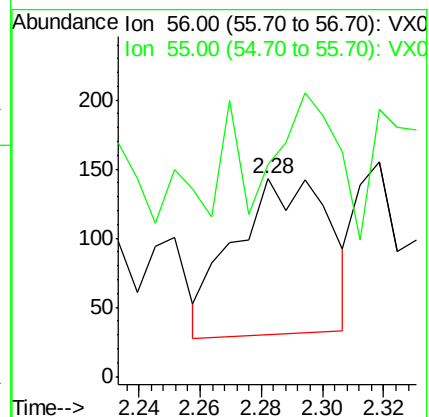
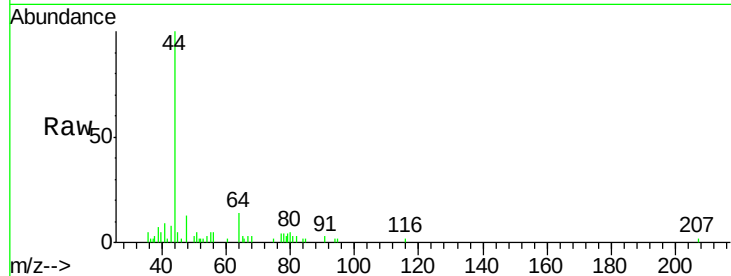
LF6-0053

Tot Ion: 56 Resp: 241

Ion Ratio Lower Upper

56 100

55 58.1 57.0 85.4



#15

Acrylonitrile

Concen: Below Cal

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002271.D

Acq: 04 Jun 2018 20:07

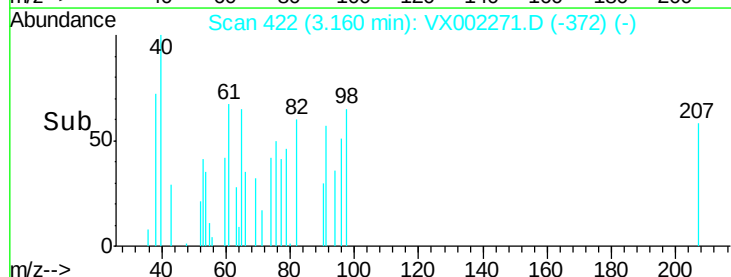
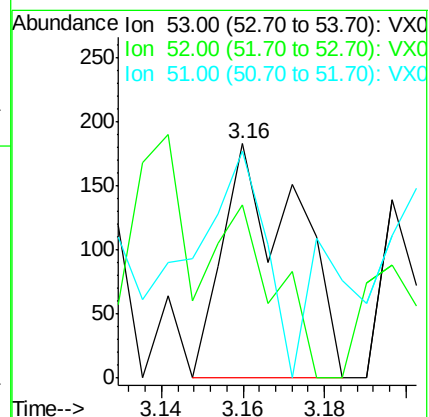
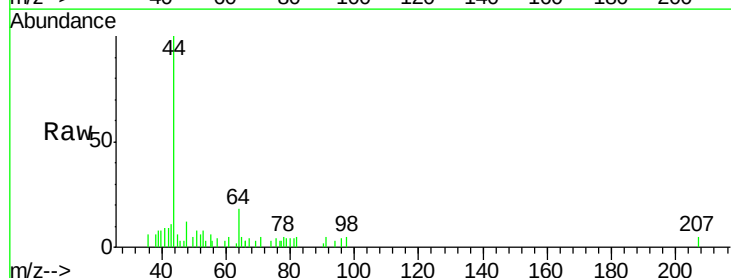
Tgt Ion: 53 Resp: 227

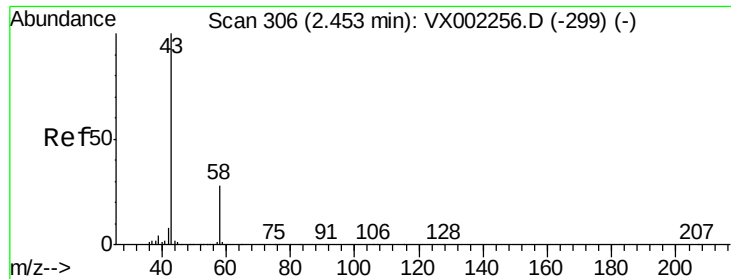
Ion Ratio Lower Upper

53 100

52 106.2 66.7 100.1#

51 95.6 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002271.D

Acq: 04 Jun 2018 20:07

Instrument :

MSVOA_X

ClientSampleId :

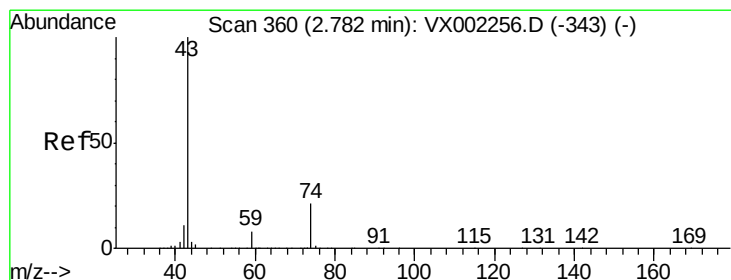
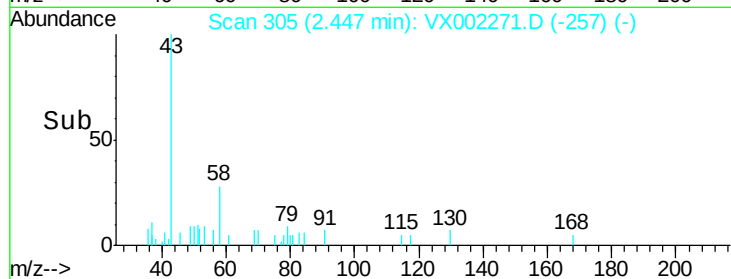
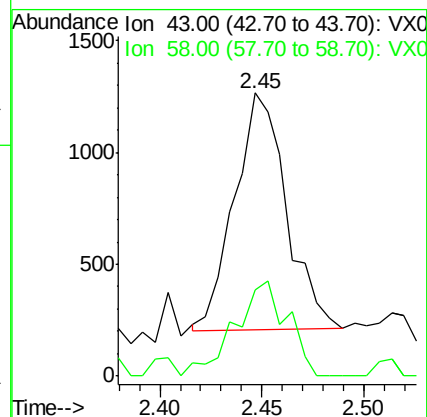
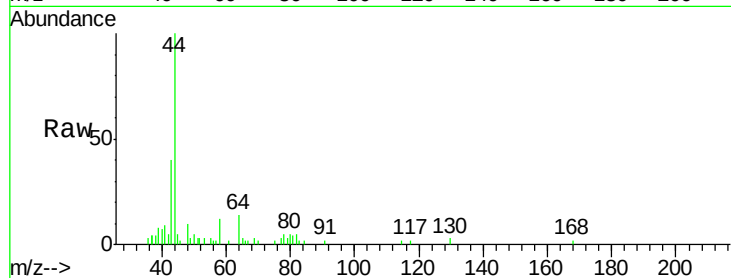
LF6-0053

Tot Ion: 43 Resp: 1872

Ion Ratio Lower Upper

43 100

58 36.7 22.1 33.1#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX002271.D

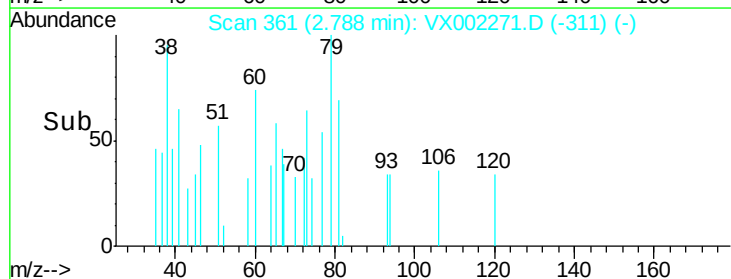
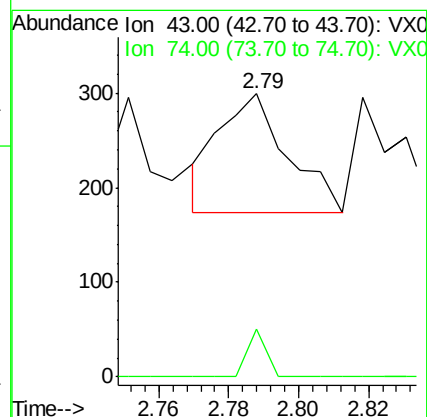
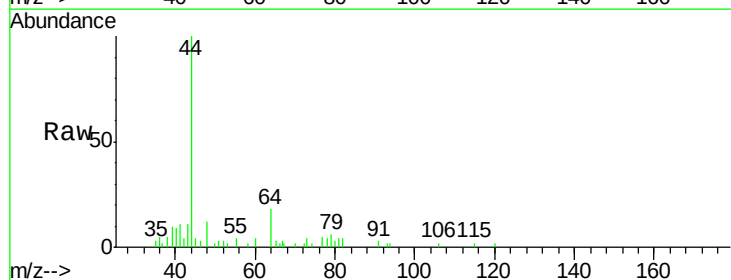
Acq: 04 Jun 2018 20:07

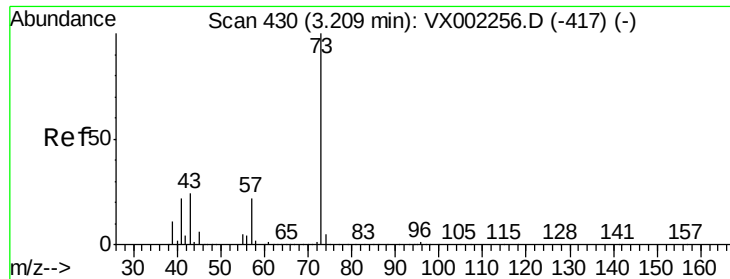
Tgt Ion: 43 Resp: 170

Ion Ratio Lower Upper

43 100

74 11.2 16.7 25.1#

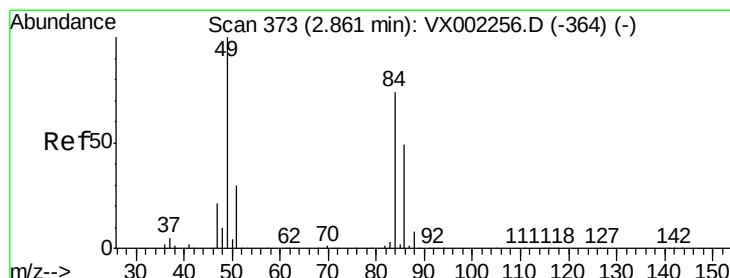
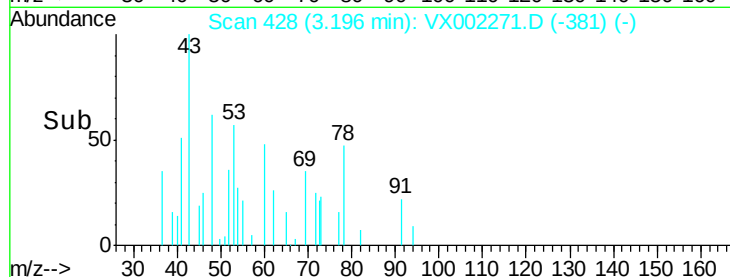
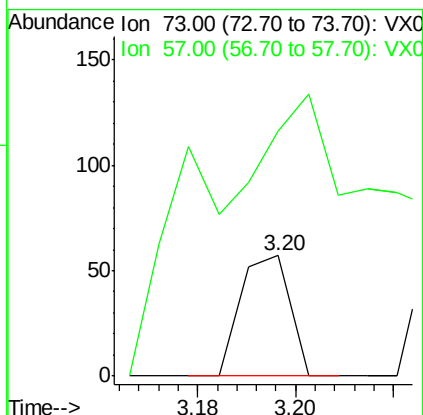
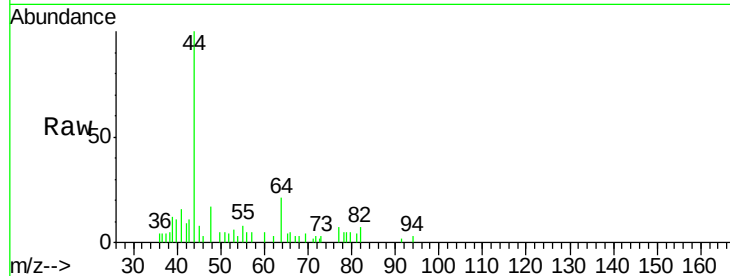




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 428
Delta R.T. -0.01 min
Lab File: VX002271.D
Acq: 04 Jun 2018 20:07

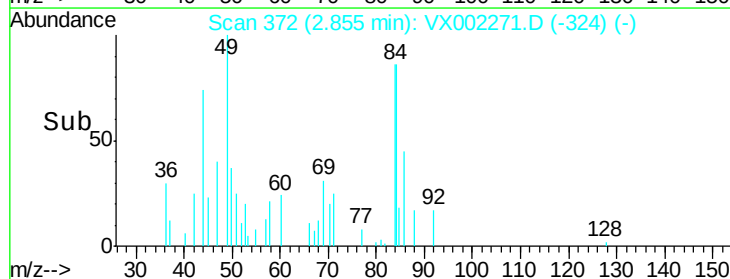
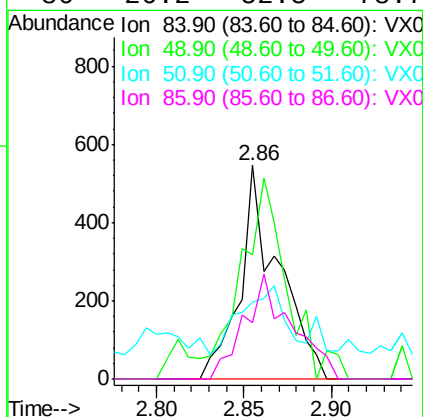
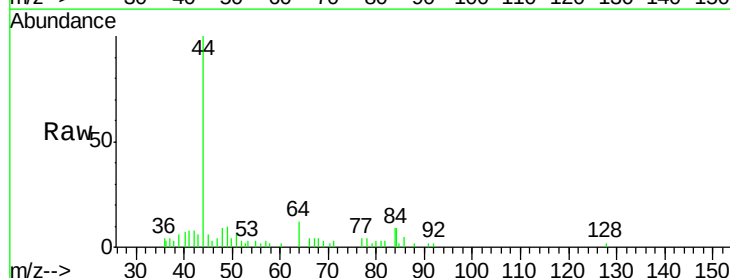
Instrument :
MSVOA_X
ClientSampleId :
LF6-0053

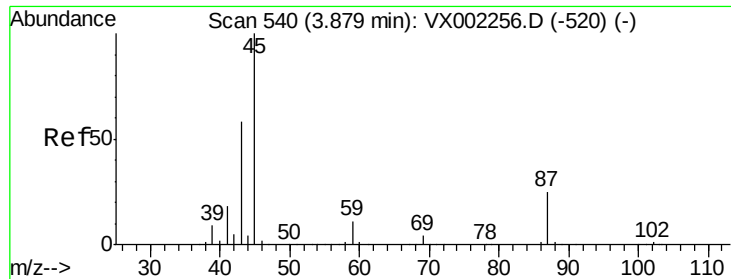
Tot Ion: 73 Resp: 40
Ion Ratio Lower Upper
73 100
57 52.6 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002271.D
Acq: 04 Jun 2018 20:07

Tgt Ion: 84 Resp: 829
Ion Ratio Lower Upper
84 100
49 47.8 107.8 161.6#
51 22.3 32.8 49.2#
86 26.2 52.5 78.7#

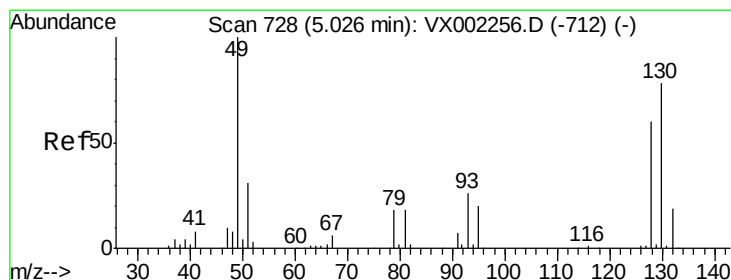
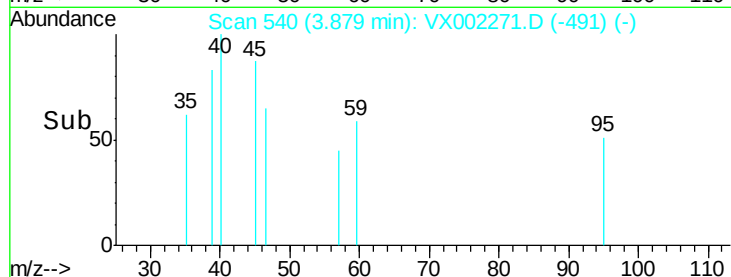
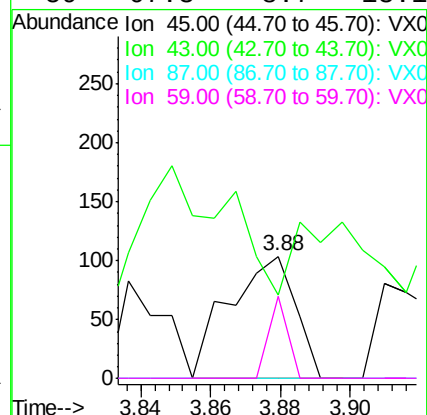
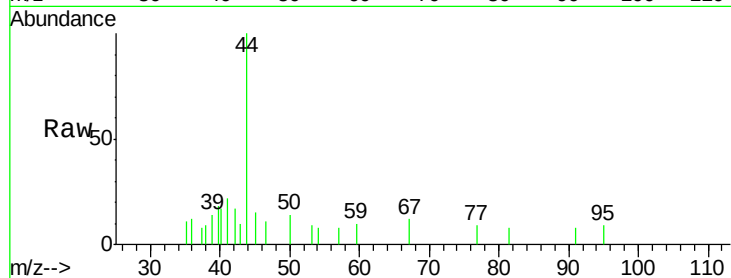




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.88 min Scan# 540
Delta R.T. 0.00 min
Lab File: VX002271.D
Acq: 04 Jun 2018 20:07

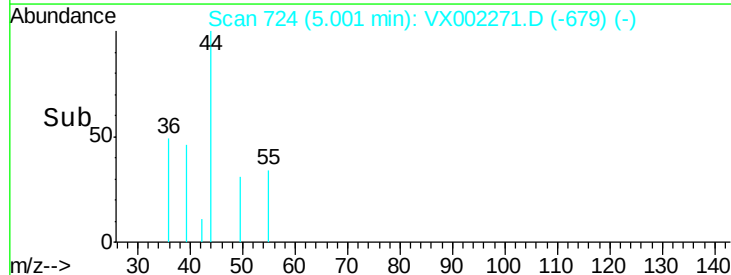
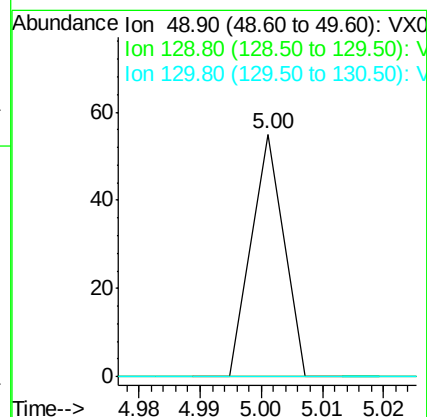
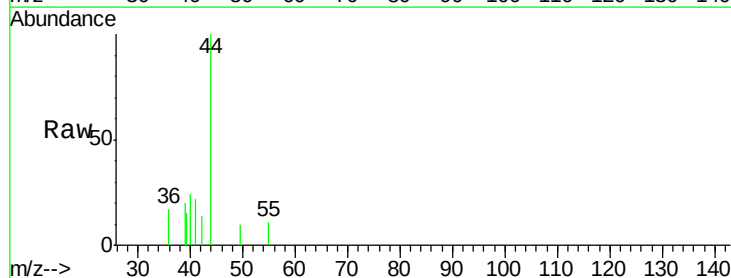
Instrument :
MSVOA_X
ClientSampled :
LF6-0053

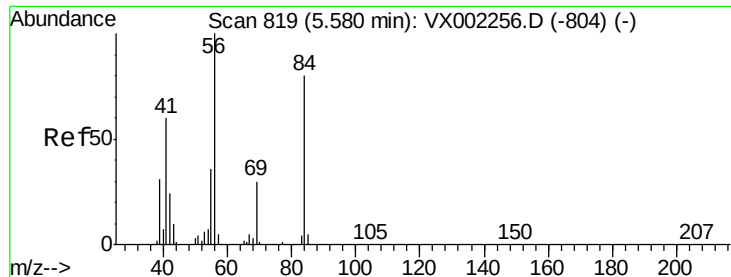
Tot Ion:	45	Resp:	137
Ion	Ratio	Lower	Upper
45	100		
43	0.0	46.8	70.2#
87	0.0	20.2	30.4#
59	67.3	8.7	13.1#



#28
Bromochloromethane
Concen: Below Cal
RT: 5.00 min Scan# 724
Delta R.T. -0.02 min
Lab File: VX002271.D
Acq: 04 Jun 2018 20:07

Tgt Ion:	49	Resp:	20
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	0.0	61.2	91.8#

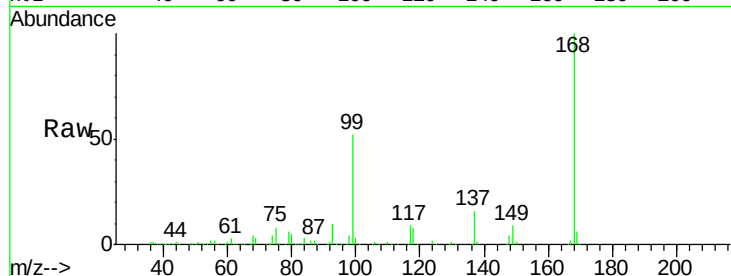




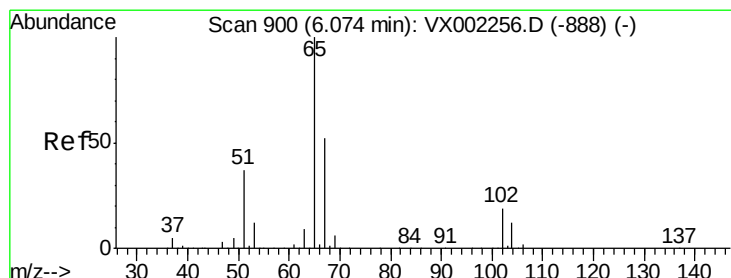
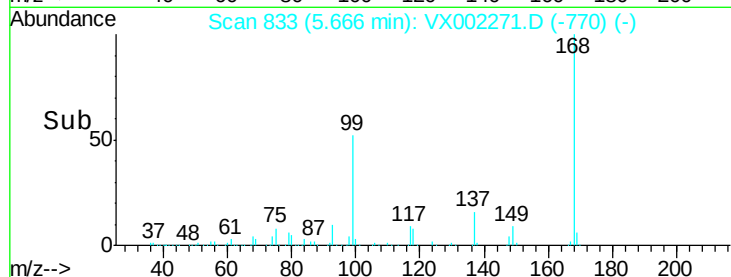
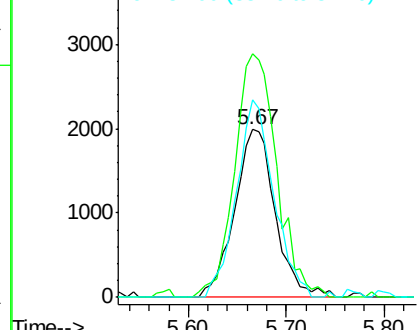
#31
Cyclohexane
Concen: 1.24 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002271.D
Acq: 04 Jun 2018 20:07

Instrument :
MSVOA_X
ClientSampleId :
LF6-0053

Tot Ion: 56 Resp: 5758
Ion Ratio Lower Upper
56 100
69 145.1 23.7 35.5#
84 117.9 64.1 96.1#

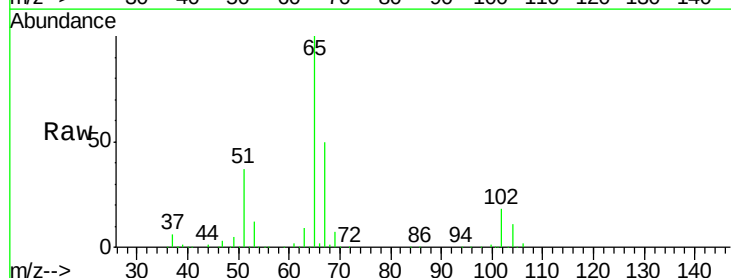


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

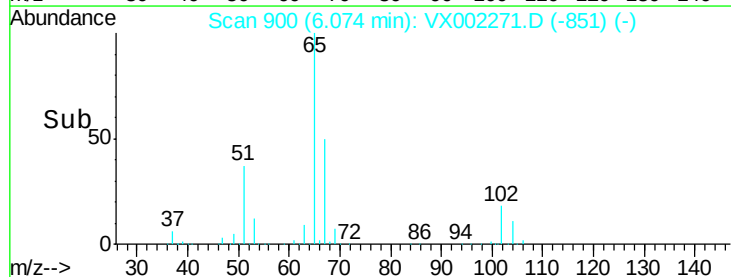
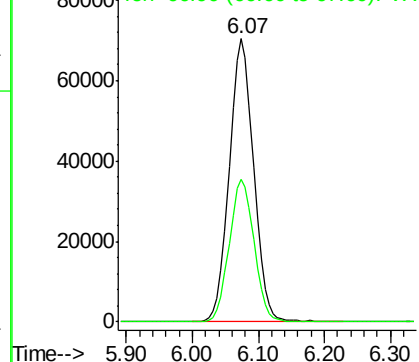


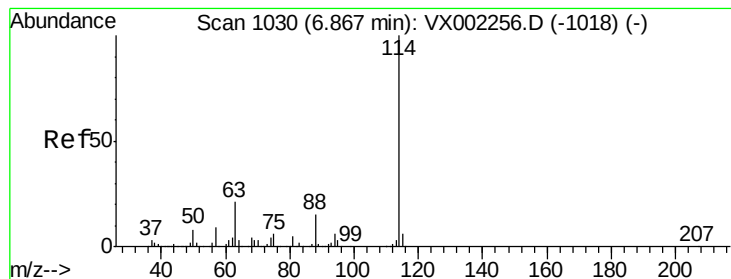
#33
1,2-Dichloroethane-d4
Concen: 48.88 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002271.D
Acq: 04 Jun 2018 20:07

Tgt Ion: 65 Resp: 179771
Ion Ratio Lower Upper
65 100
67 51.1 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: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002271.D

Acq: 04 Jun 2018 20:07

Instrument :

MSVOA_X

ClientSampleId :

LF6-0053

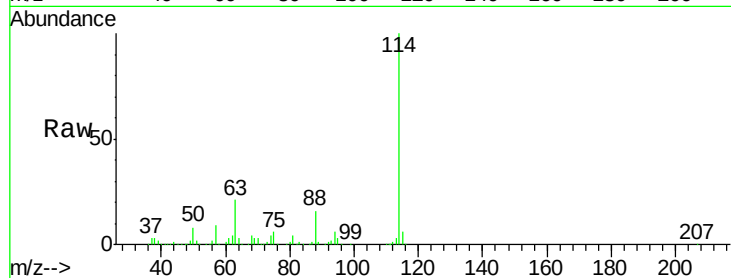
Tot Ion:114 Resp: 370802

Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.4

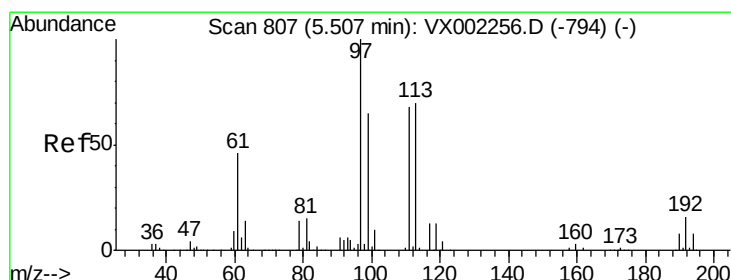
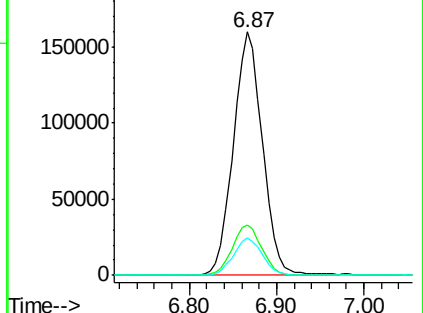
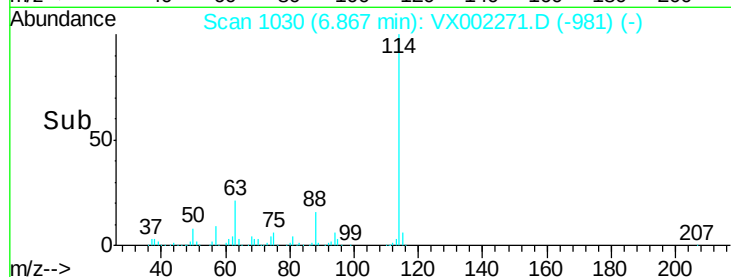
88 15.6 0.0 30.0



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: 44.62 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002271.D

Acq: 04 Jun 2018 20:07

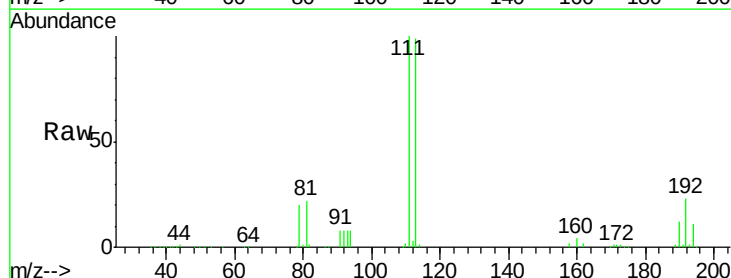
Tgt Ion:113 Resp: 130114

Ion Ratio Lower Upper

113 100

111 103.1 81.4 122.0

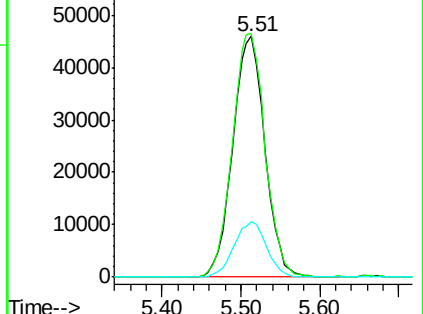
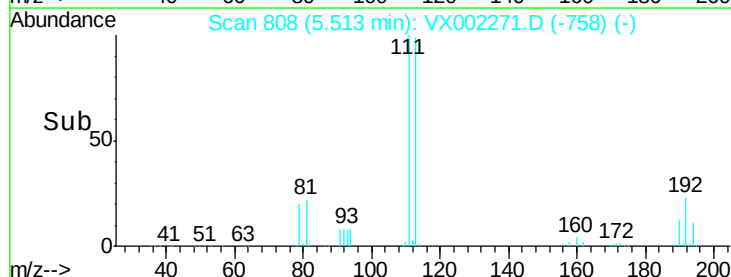
192 23.1 19.1 28.7

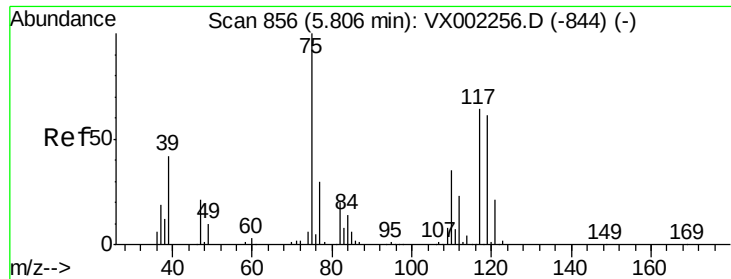


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

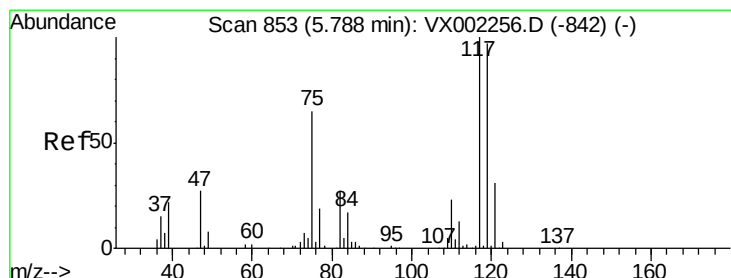
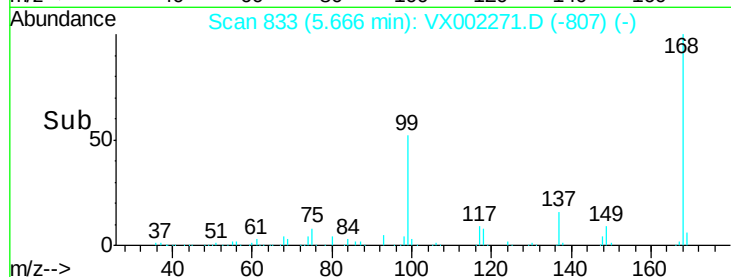
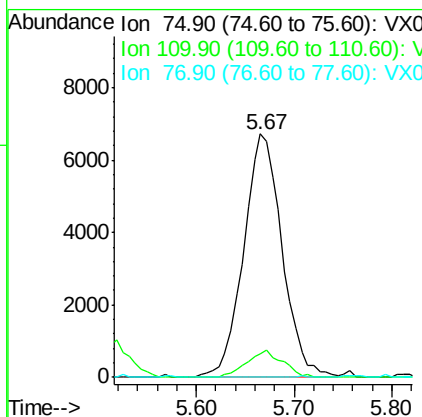
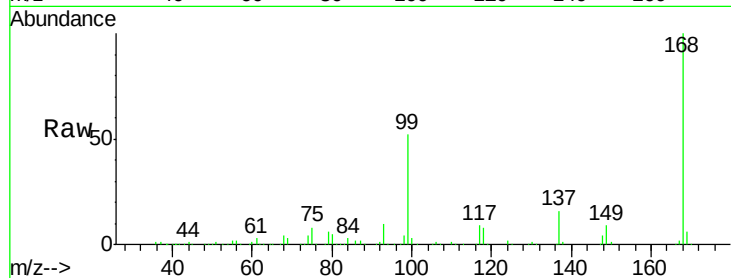




#36
 1,1-Dichloropropene
 Concen: 4.72 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002271.D
 Acq: 04 Jun 2018 20:07

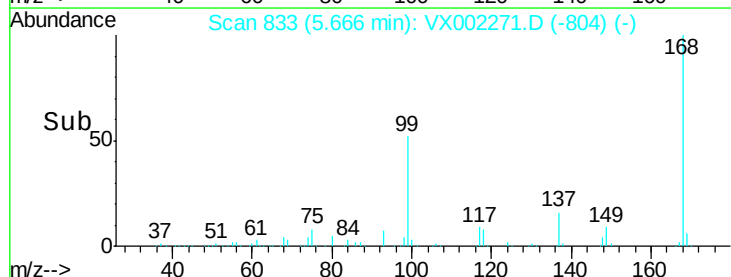
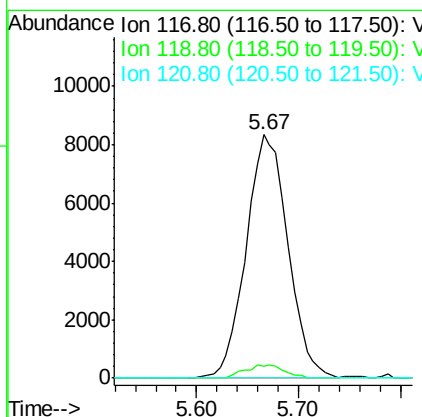
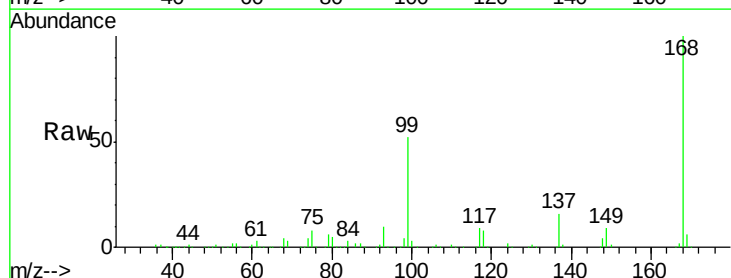
Instrument :
 MSVOA_X
 ClientSampled :
 LF6-0053

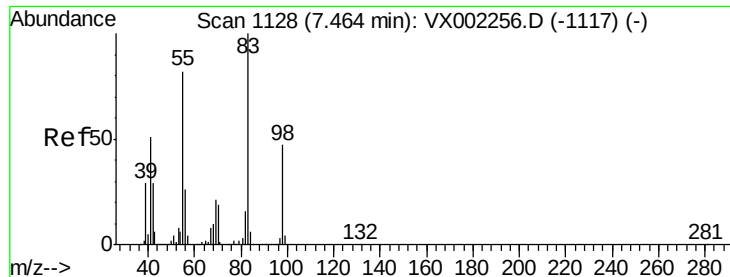
Tot Ion	75	Resp	18414
Ion Ratio	100	Lower	Upper
75	100		
110	10.4	18.1	54.4#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.81 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002271.D
 Acq: 04 Jun 2018 20:07

Tgt Ion	117	Resp	23710
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.0	77.4	116.0#
121	0.0	24.4	36.6#

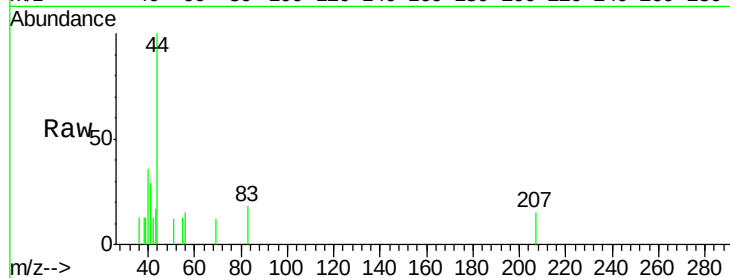




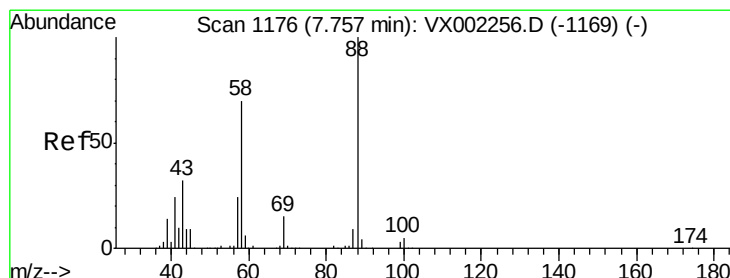
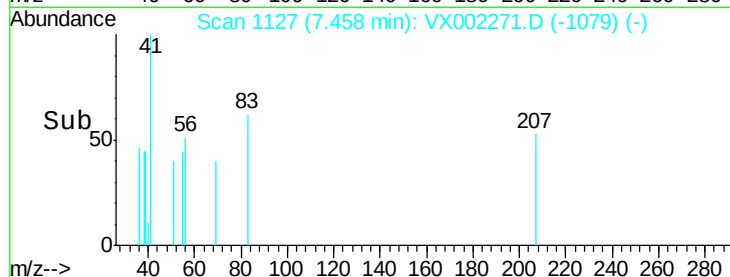
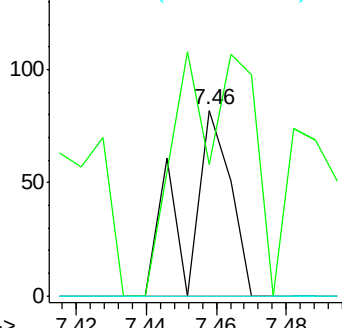
#39
Methylvlcyclohexane
Concen: 0.28 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VX002271.D
Acq: 04 Jun 2018 20:07

Instrument :
MSVOA_X
ClientSampled :
LF6-0053

Tot Ion: 83 Resp: 71
Ion Ratio Lower Upper
83 100
55 70.7 65.4 98.0
98 0.0 37.4 56.0#

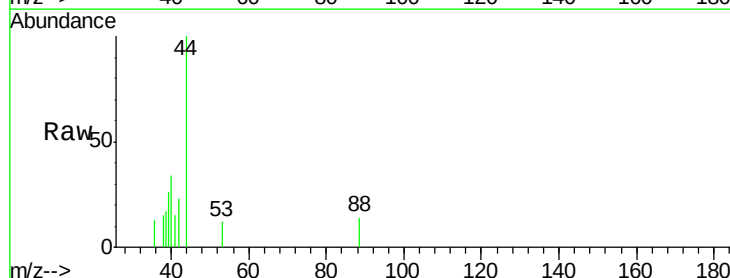


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

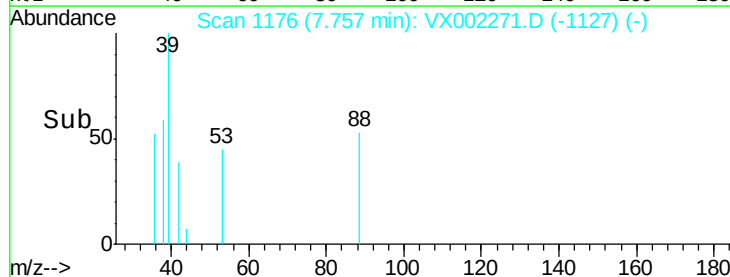
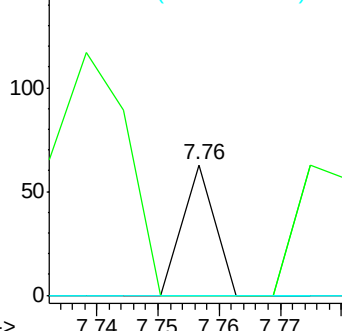


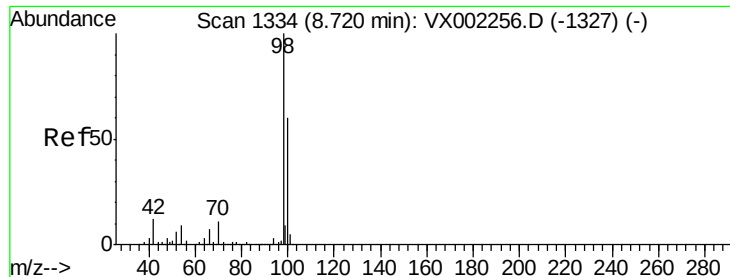
#49
1,4-Dioxane
Concen: 0.31 ug/l
RT: 7.76 min Scan# 1176
Delta R.T. -0.00 min
Lab File: VX002271.D
Acq: 04 Jun 2018 20:07

Tgt Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
43 430.4 29.8 44.6#
58 0.0 57.1 85.7#



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: 47.69 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002271.D

Acq: 04 Jun 2018 20:07

Instrument :

MSVOA_X

ClientSampleId :

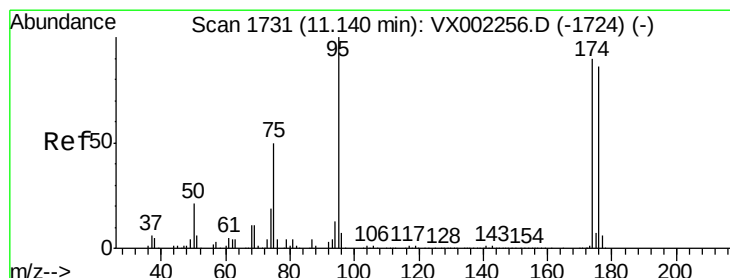
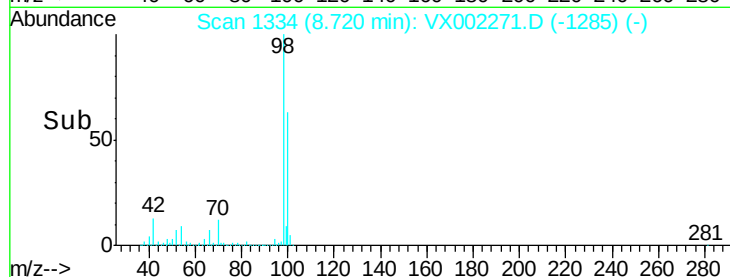
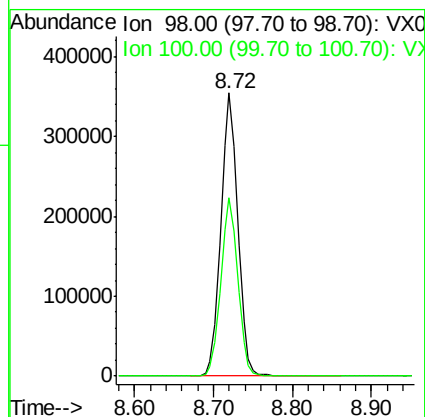
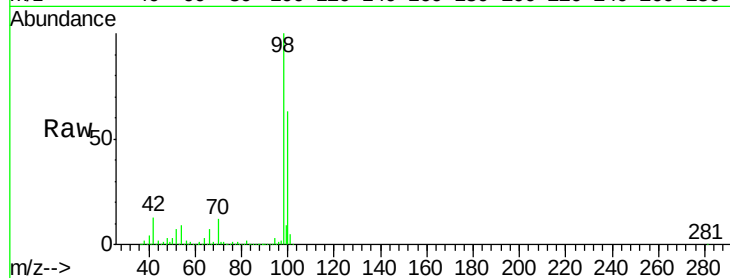
LF6-0053

Tot Ion: 98 Resp: 532975

Ion Ratio Lower Upper

98 100

100 63.3 50.9 76.3



#62

4-Bromofluorobenzene

Concen: 43.92 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002271.D

Acq: 04 Jun 2018 20:07

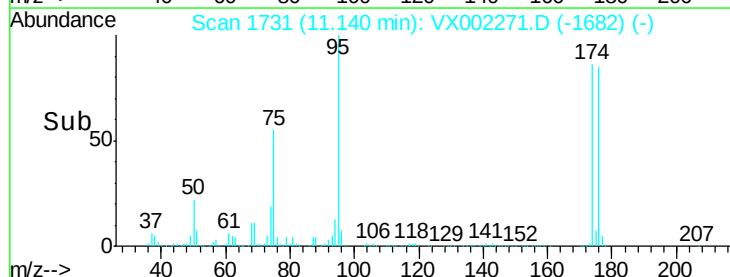
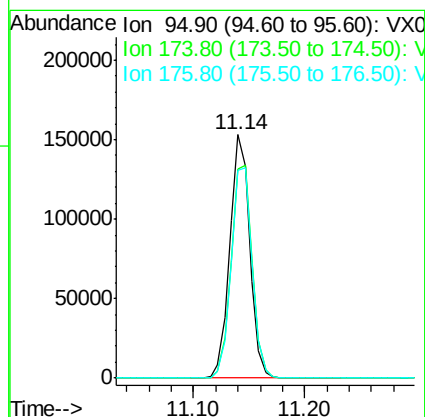
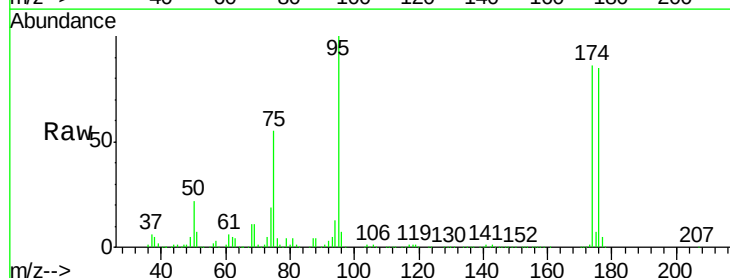
Tgt Ion: 95 Resp: 189300

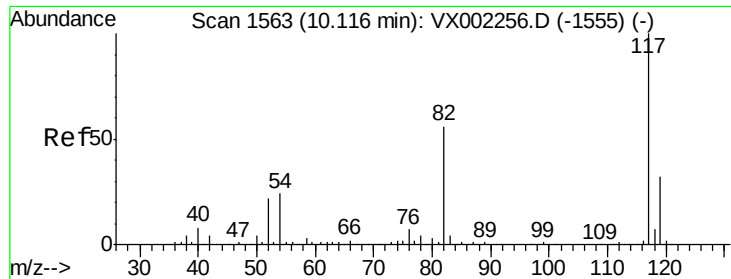
Ion Ratio Lower Upper

95 100

174 92.0 0.0 187.4

176 90.8 0.0 181.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002271.D

Acq: 04 Jun 2018 20:07

Instrument :

MSVOA_X

ClientSampleId :

LF6-0053

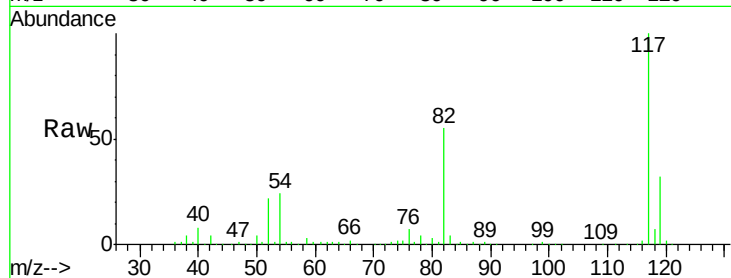
Tot Ion:117 Resp: 340844

Ion Ratio Lower Upper

117 100

82 55.1 45.0 67.4

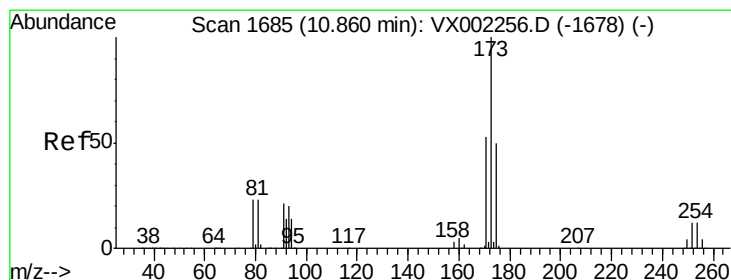
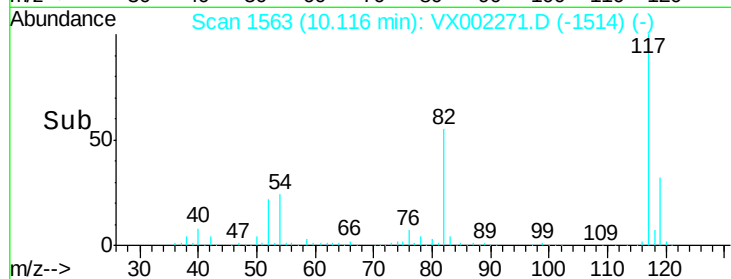
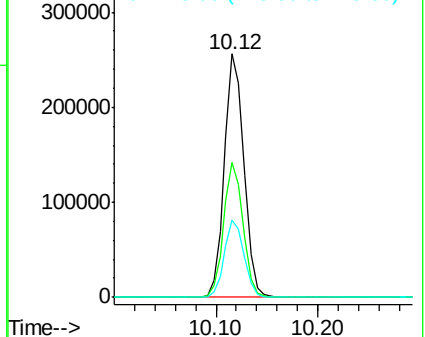
119 31.6 25.8 38.6



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



#71

Bromoform

Concen: 3.51 ug/l

RT: 10.87 min Scan# 1687

Delta R.T. 0.01 min

Lab File: VX002271.D

Acq: 04 Jun 2018 20:07

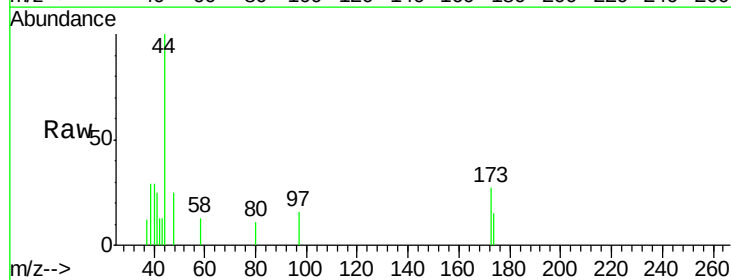
Tgt Ion:173 Resp: 143

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

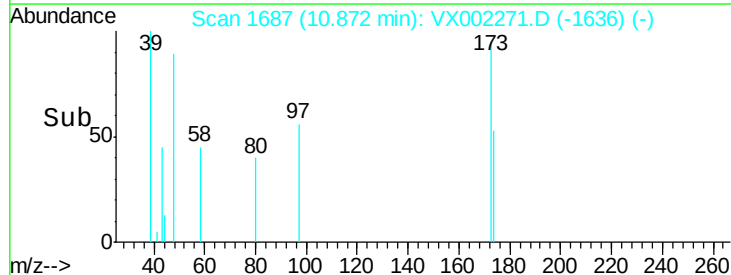
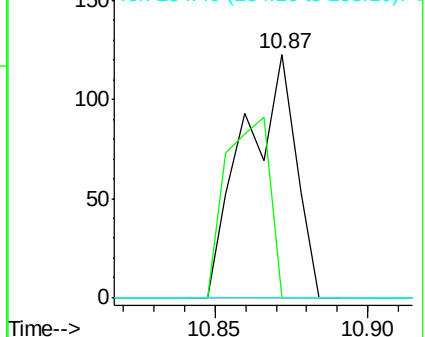
254 0.0 0.2 0.2#

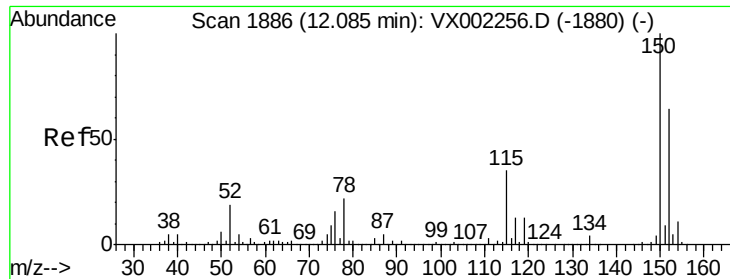


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002271.D

Acq: 04 Jun 2018 20:07

Instrument :

MSVOA_X

ClientSampled :

LF6-0053

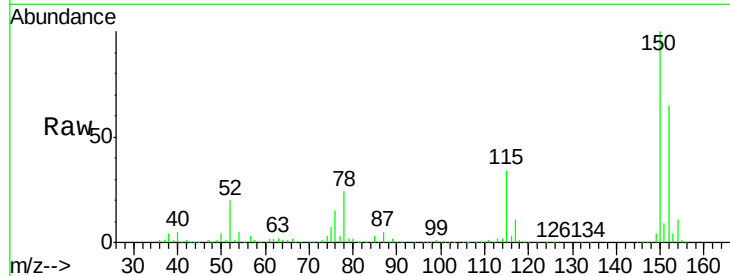
Tot Ion:152 Resp: 191471

Ion Ratio Lower Upper

152 100

115 55.0 40.1 120.2

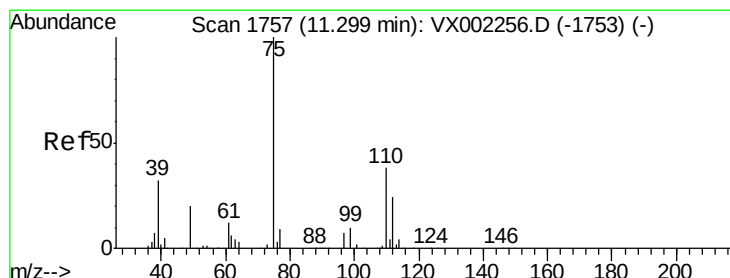
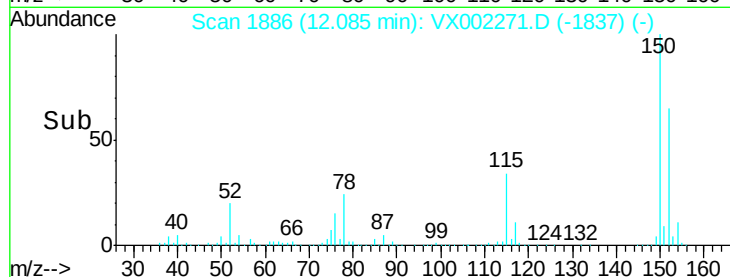
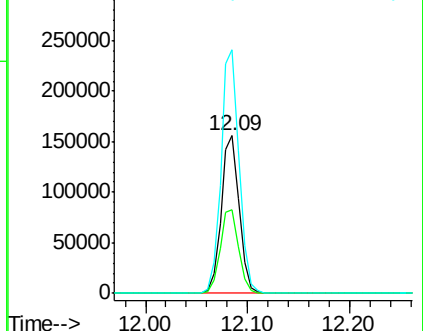
150 155.5 0.0 347.2



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: 24.41 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002271.D

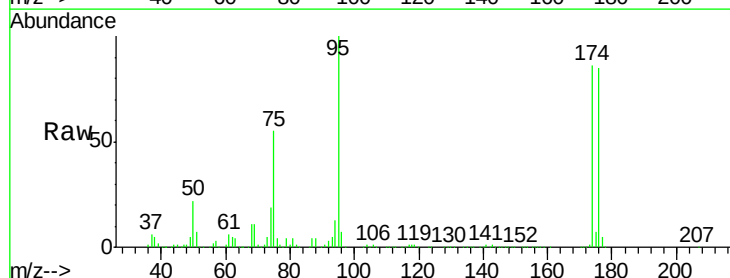
Acq: 04 Jun 2018 20:07

Tgt Ion: 75 Resp: 102553

Ion Ratio Lower Upper

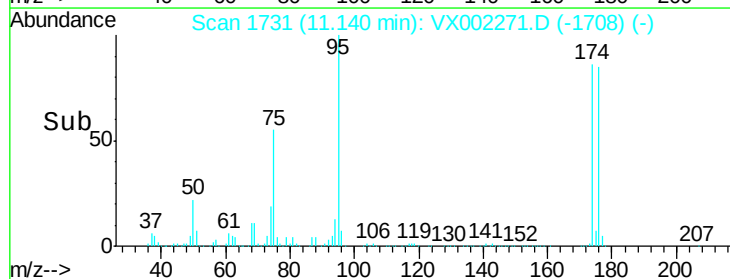
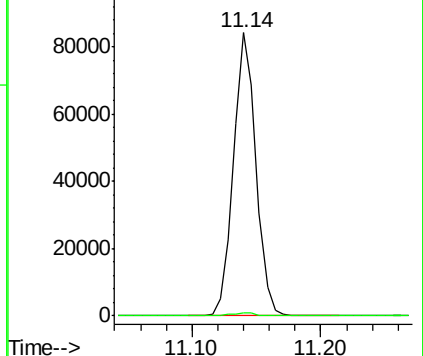
75 100

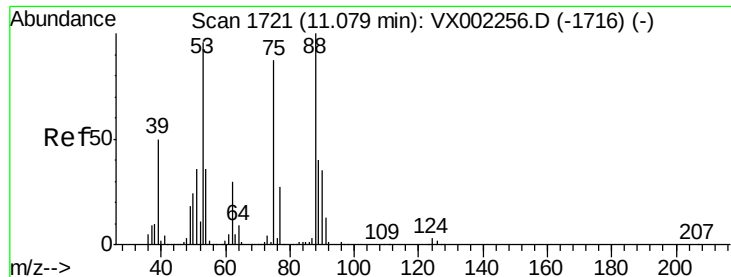
77 1.2 22.8 68.3#



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: 85.56 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002271.D
 Acq: 04 Jun 2018 20:07

Instrument :
 MSVOA_X
 ClientSampleId :
 LF6-0053

Tot Ion: 75 Resp: 102553
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#

