

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060518\
 Data File : VX002308.D
 Acq On : 05 Jun 2018 16:24
 Operator : JC/MD
 Sample : J3270-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 06 04:32:06 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	230799	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	337530	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	301260	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	161733	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	162837	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	
35) Dibromofluoromethane	5.51	113	117805	44.38	ug/l	0.00
Spiked Amount			Recovery	=	88.76%	
50) Toluene-d8	8.72	98	480748	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
62) 4-Bromofluorobenzene	11.14	95	158740	40.46	ug/l	0.00
Spiked Amount			Recovery	=	80.92%	

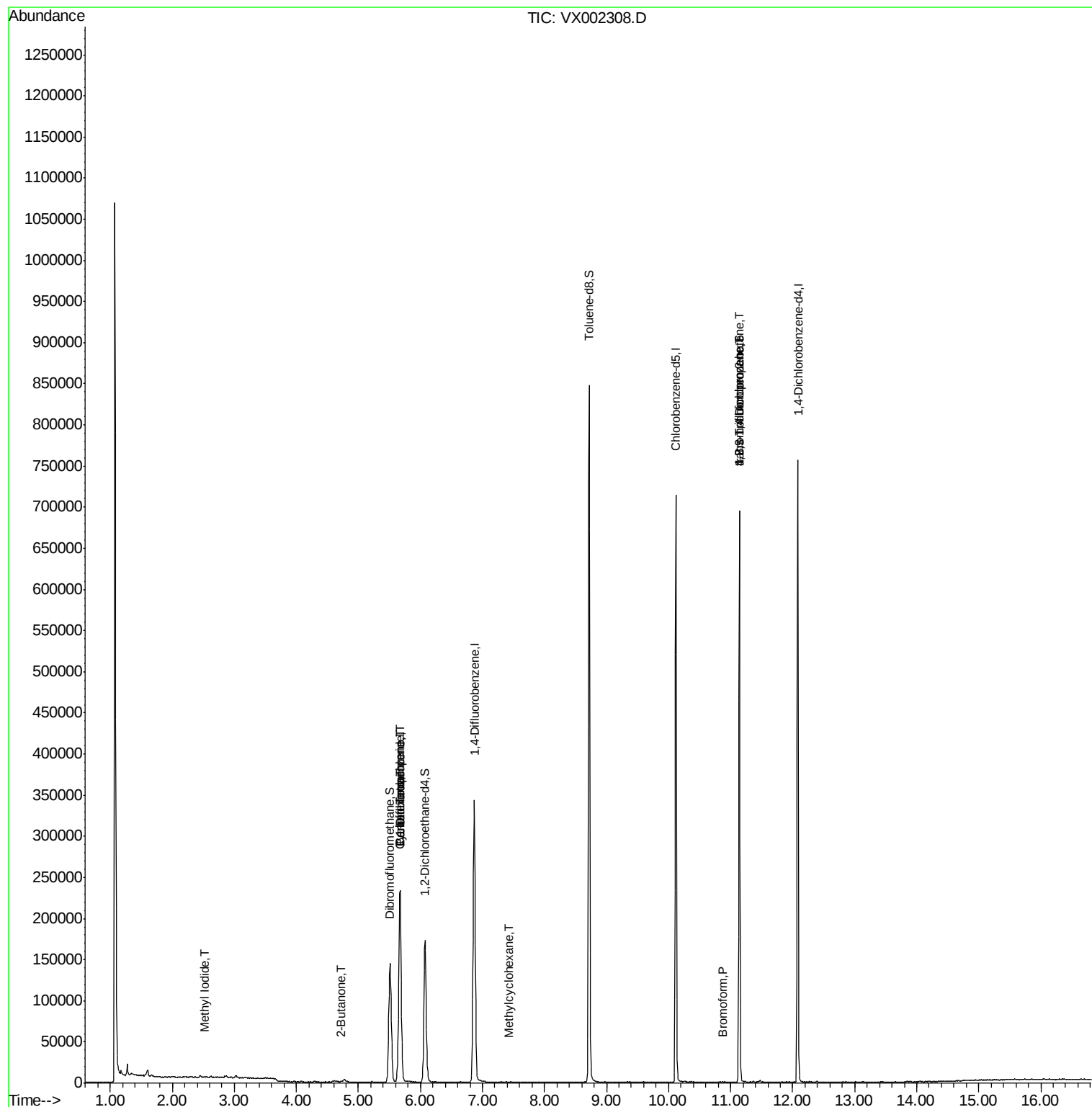
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	687	Below Cal	#	82
5) Bromomethane	1.61	94	402	Below Cal	#	3
8) Diethyl Ether	2.18	74	107	Below Cal		80
10) Methyl Iodide	2.53	142	1172	0.34	ug/l	88
11) Tert butyl alcohol	3.08	59	142	Below Cal	#	1
13) Acrolein	2.29	56	204	Below Cal	#	64
15) Acrylonitrile	3.16	53	295	Below Cal	#	53
16) Acetone	2.45	43	2597	Below Cal	#	83
18) Methyl Acetate	2.80	43	102	Below Cal		97
19) Methyl tert-butyl Ether	3.21	73	31	Below Cal	#	74
20) Methylene Chloride	2.86	84	945	Below Cal	#	84
22) Diisopropyl ether	3.89	45	110	Below Cal	#	83
25) 2-Butanone	4.73	43	465	0.21	ug/l	92
28) Bromochloromethane	5.05	49	20	Below Cal	#	13
31) Cyclohexane	5.66	56	5194	1.25	ug/l	22
36) 1,1-Dichloropropene	5.67	75	16899	4.76	ug/l	53
38) Carbon Tetrachloride	5.67	117	21627	5.83	ug/l	16
39) Methylcyclohexane	7.43	83	20	0.27	ug/l	50
71) Bromoform	10.86	173	183	3.53	ug/l	28
76) 1,2,3-Trichloropropane	11.14	75	87387	24.62	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	87387	86.32	ug/l	6

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

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QLast Update : Tue Jun 05 03:22:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002308.D

Acq: 05 Jun 2018 16:24

Instrument :

MSVOA_X

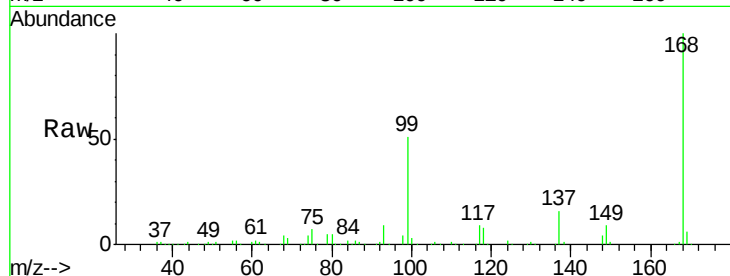
ClientSampled :

Tot Ion:168 Resp: 230799

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

80000

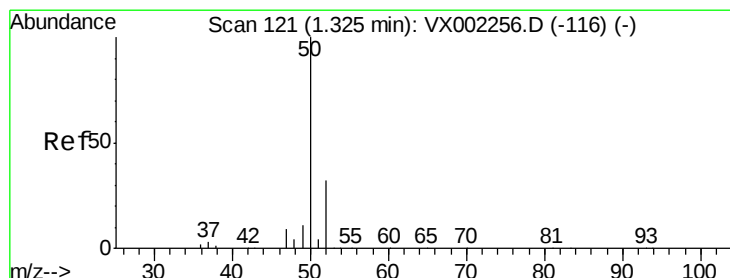
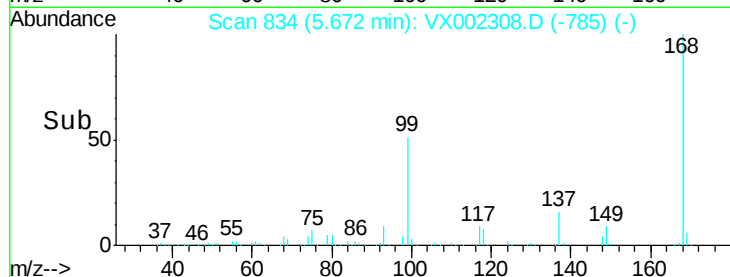
60000

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: VX002308.D

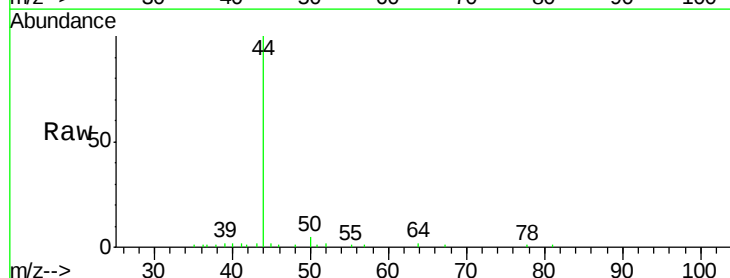
Acq: 05 Jun 2018 16:24

Tgt Ion: 50 Resp: 687

Ion Ratio Lower Upper

50 100

52 42.1 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

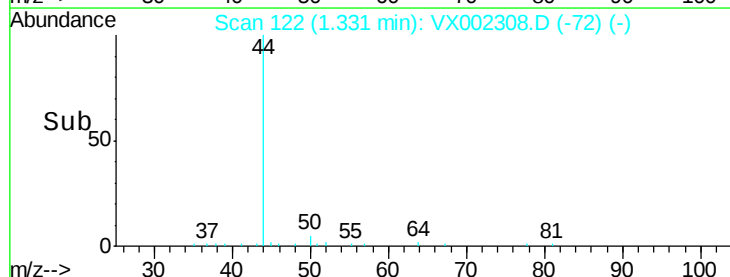
300

200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 167

Delta R.T. -0.03 min

Lab File: VX002308.D

Acq: 05 Jun 2018 16:24

Instrument :

MSVOA_X

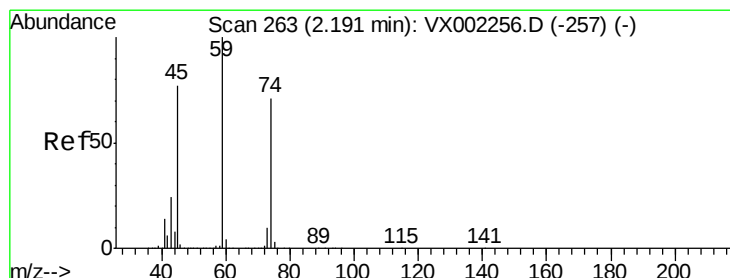
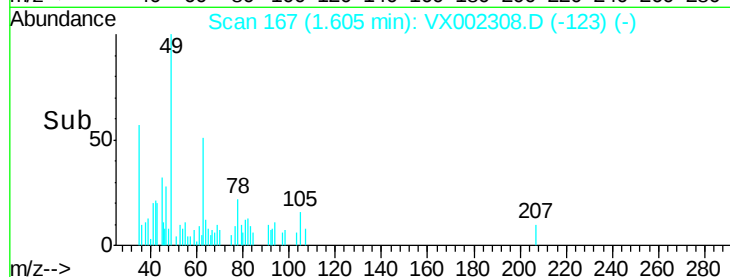
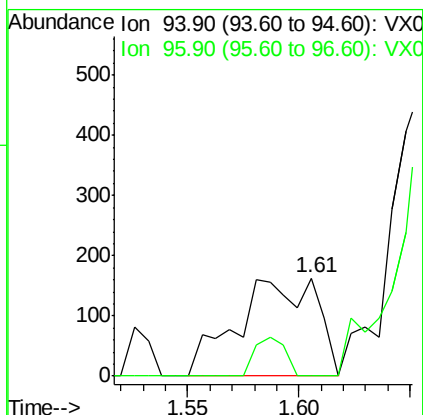
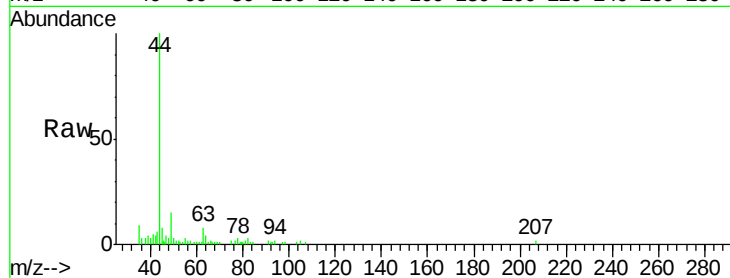
ClientSampled :

Tot Ion: 94 Resp: 402

Ion Ratio Lower Upper

94 100

96 0.0 74.9 112.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 262

Delta R.T. -0.01 min

Lab File: VX002308.D

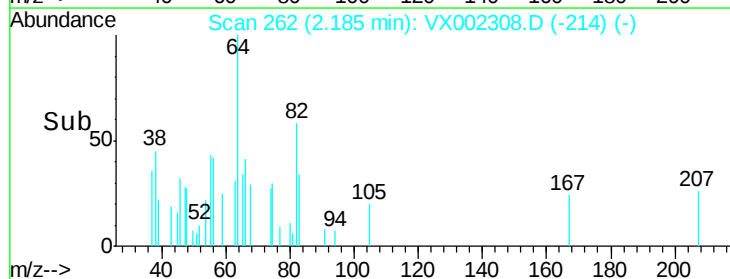
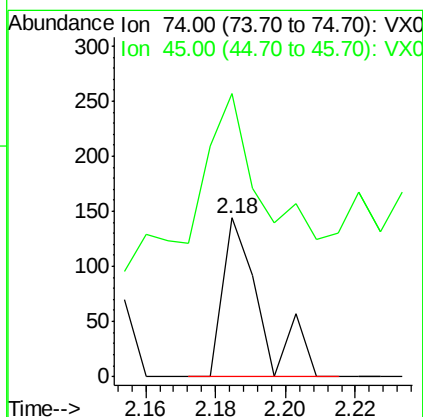
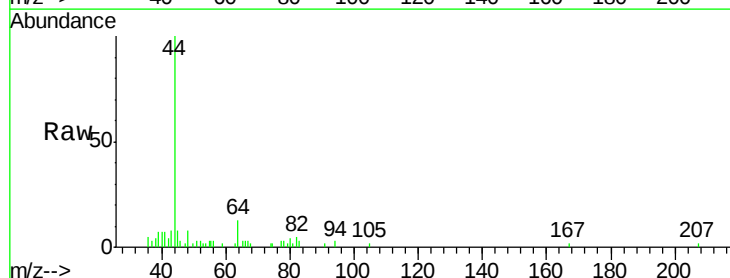
Acq: 05 Jun 2018 16:24

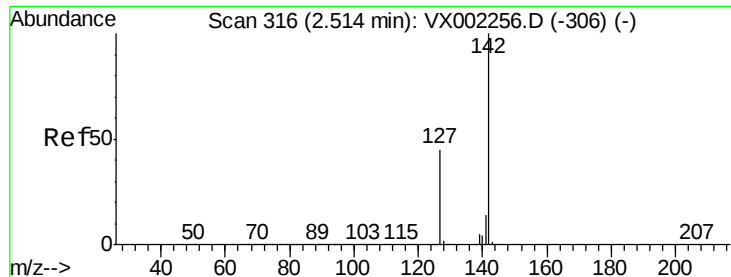
Tgt Ion: 74 Resp: 107

Ion Ratio Lower Upper

74 100

45 127.1 53.1 159.4

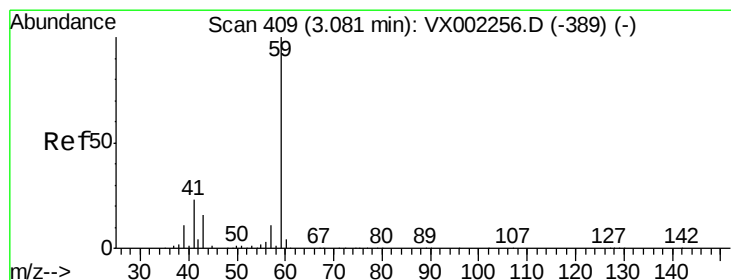
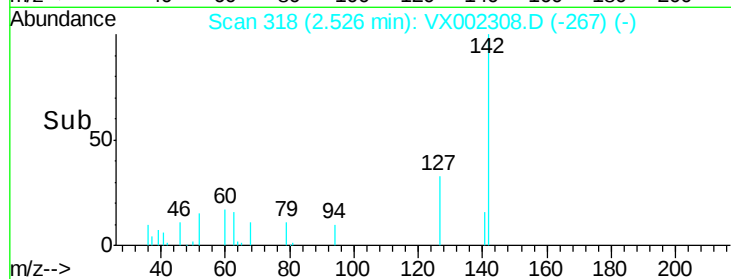
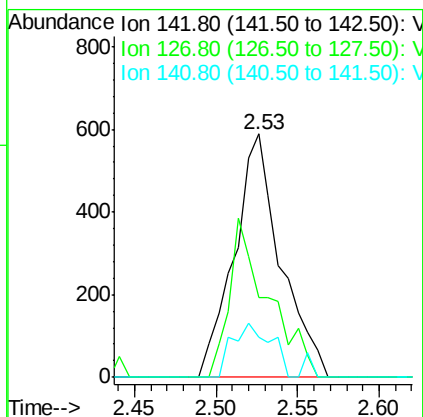
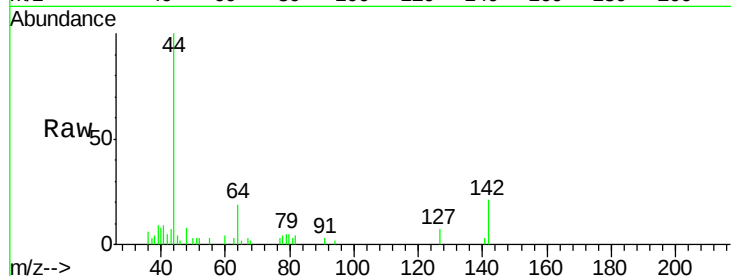




#10
Methvl Iodide
Concen: 0.34 ua/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002308.D
Acq: 05 Jun 2018 16:24

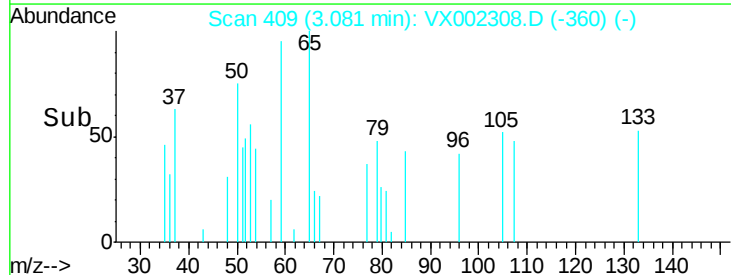
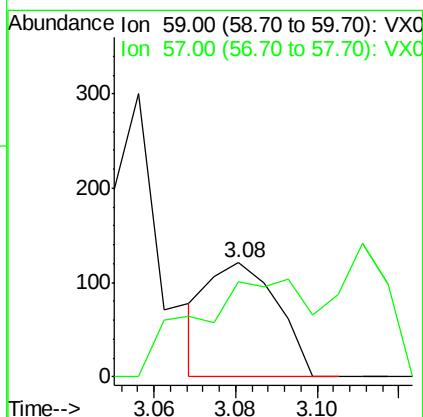
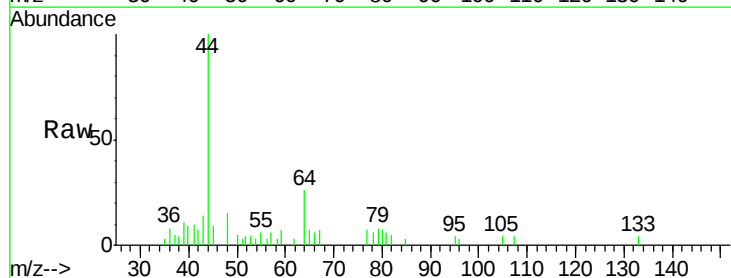
Instrument :
MSVOA_X
ClientSampleId :

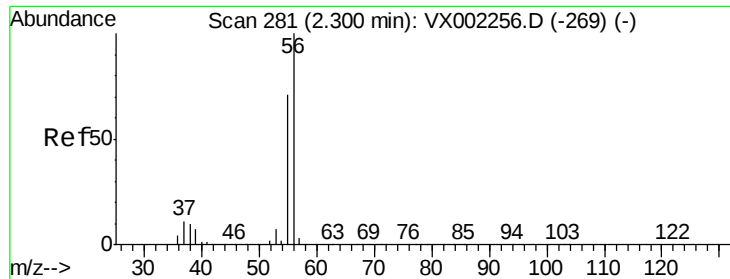
Tot Ion:142 Resp: 1172
Ion Ratio Lower Upper
142 100
127 54.2 36.6 55.0
141 18.6 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002308.D
Acq: 05 Jun 2018 16:24

Tgt Ion: 59 Resp: 142
Ion Ratio Lower Upper
59 100
57 140.8 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX002308.D

Acq: 05 Jun 2018 16:24

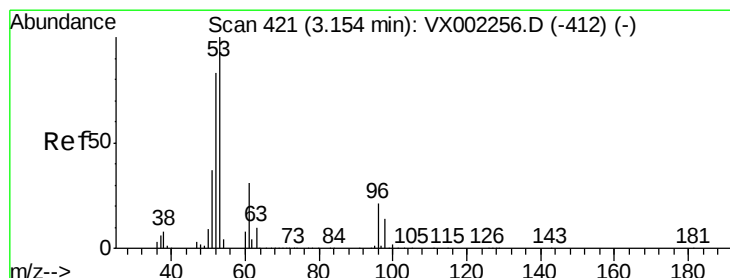
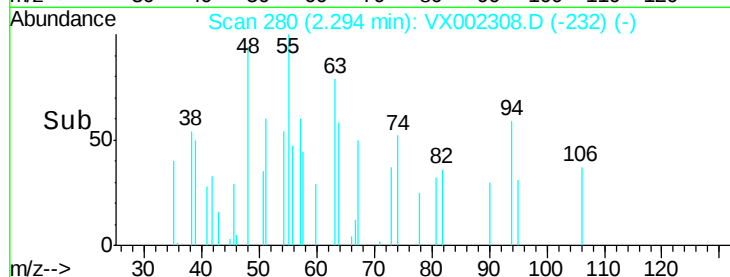
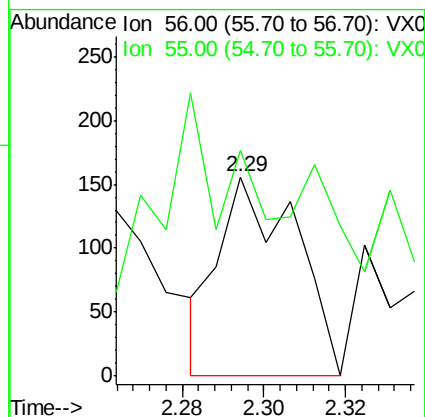
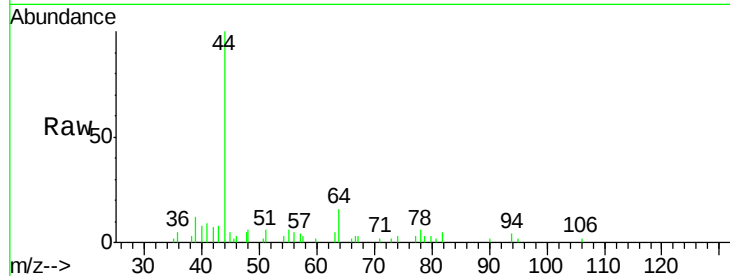
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 204

Ion Ratio Lower Upper

56 100

55 101.0 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002308.D

Acq: 05 Jun 2018 16:24

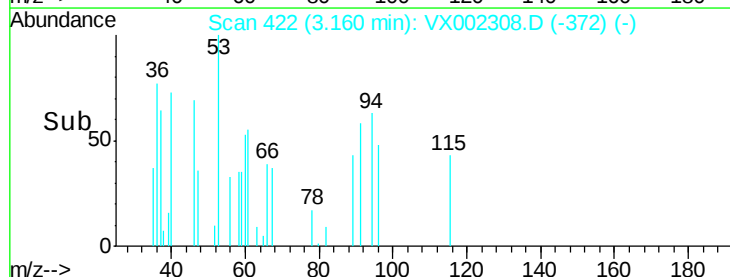
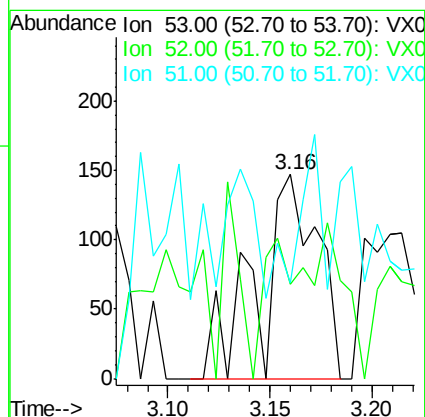
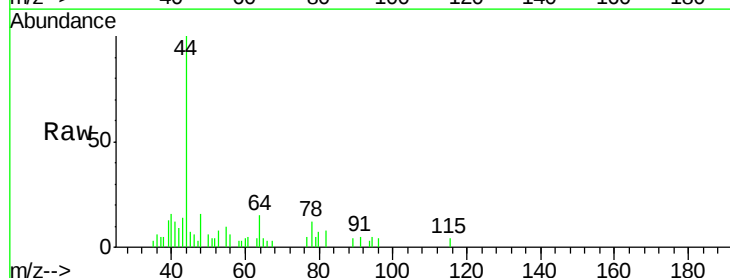
Tgt Ion: 53 Resp: 295

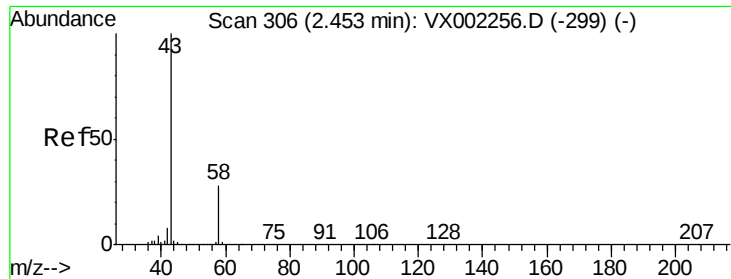
Ion Ratio Lower Upper

53 100

52 31.9 66.7 100.1#

51 22.7 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002308.D

Acq: 05 Jun 2018 16:24

Instrument :

MSVOA_X

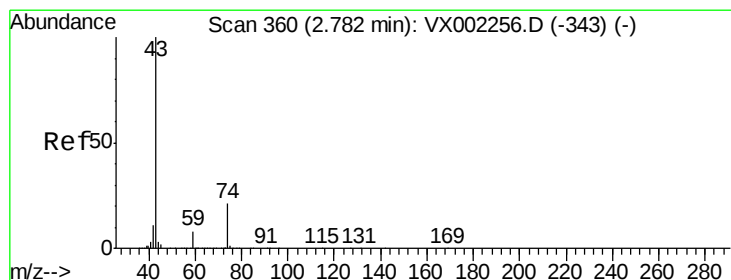
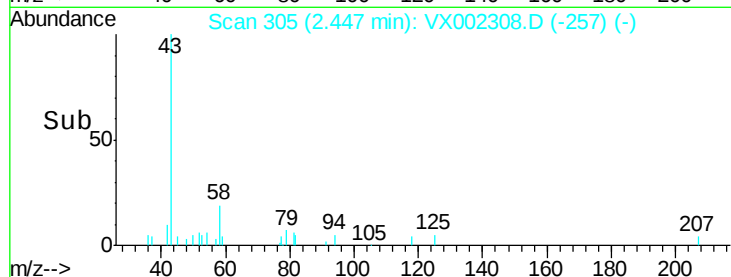
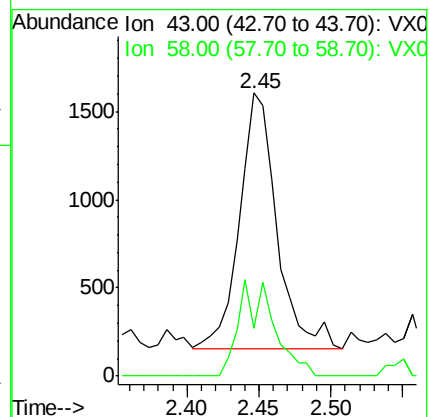
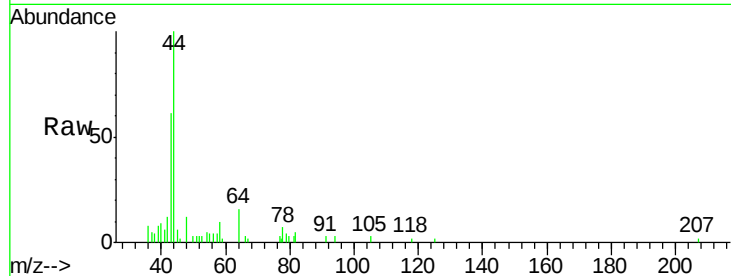
ClientSampled :

Tot Ion: 43 Resp: 2597

Ion Ratio Lower Upper

43 100

58 18.5 22.1 33.1#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.80 min Scan# 363

Delta R.T. 0.02 min

Lab File: VX002308.D

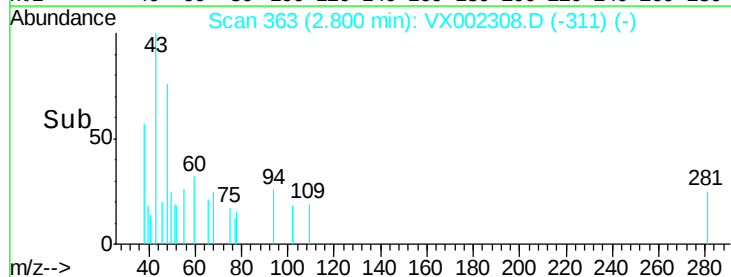
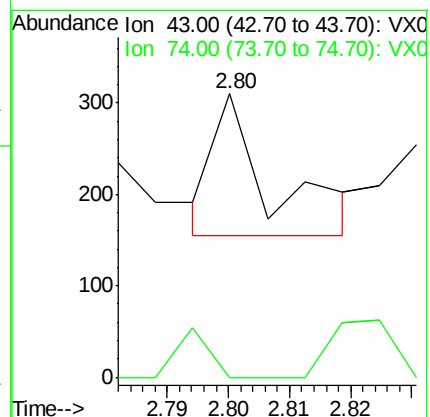
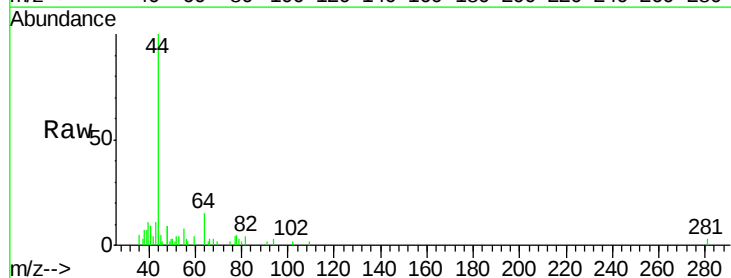
Acq: 05 Jun 2018 16:24

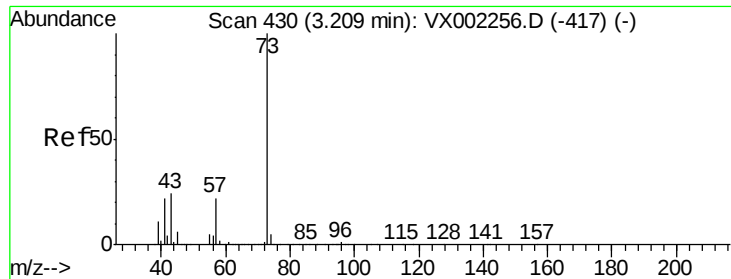
Tgt Ion: 43 Resp: 102

Ion Ratio Lower Upper

43 100

74 19.6 16.7 25.1



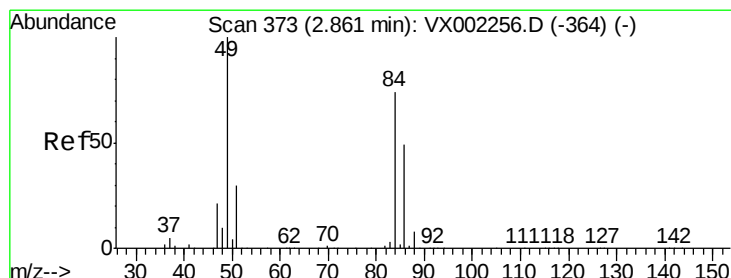
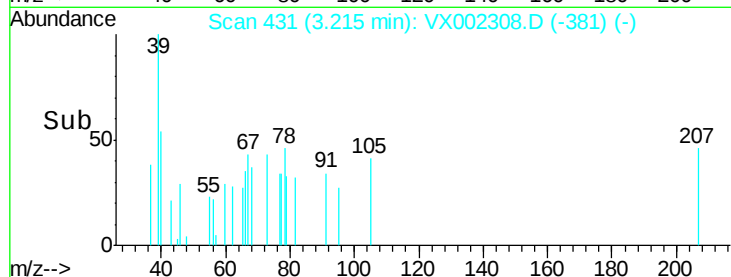
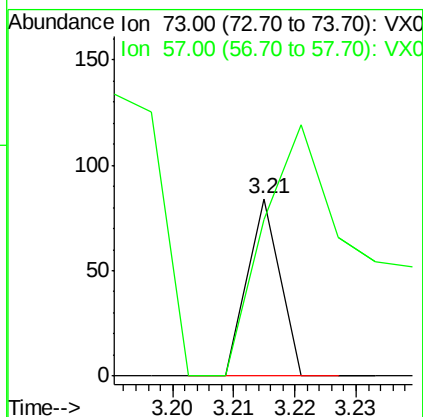
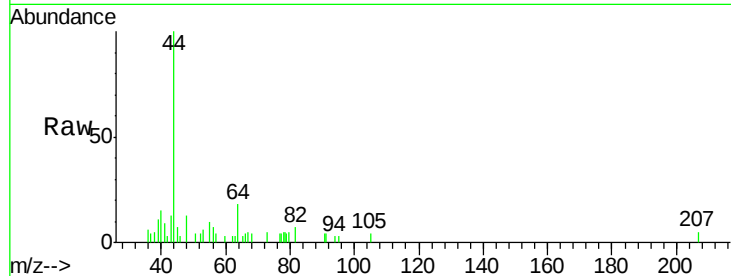


#19

Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX002308.D
Acq: 05 Jun 2018 16:24

Instrument :
MSVOA_X
ClientSampled :

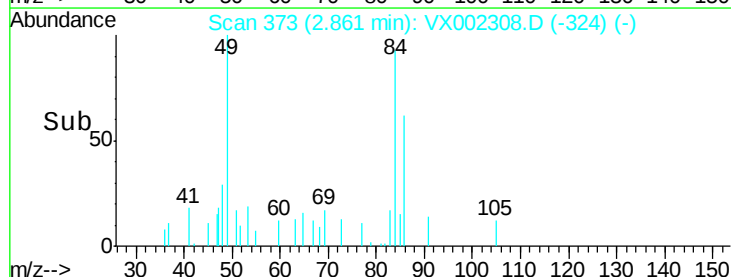
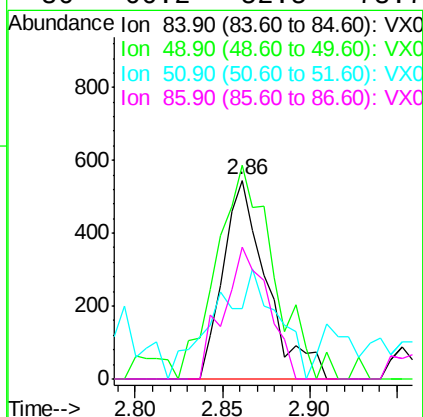
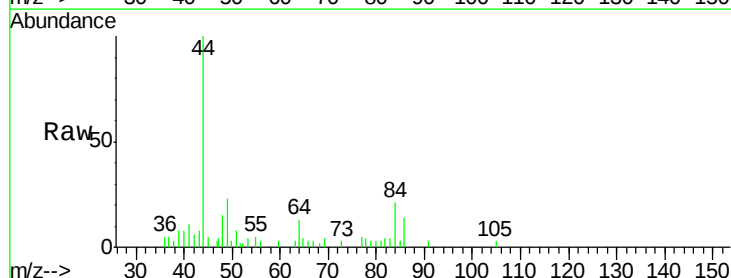
Tot Ion: 73 Resp: 31
Ion Ratio Lower Upper
73 100
57 9.5 17.7 26.5#

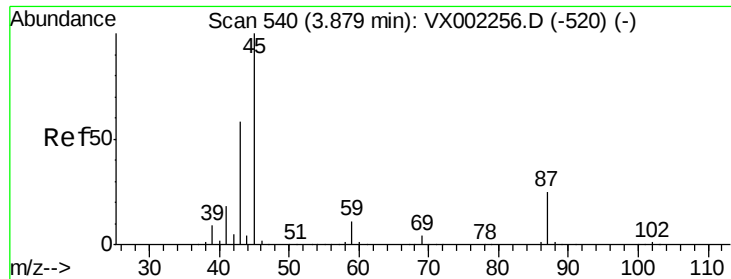


#20

Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002308.D
Acq: 05 Jun 2018 16:24

Tgt Ion: 84 Resp: 945
Ion Ratio Lower Upper
84 100
49 107.5 107.8 161.6#
51 30.8 32.8 49.2#
86 66.2 52.5 78.7



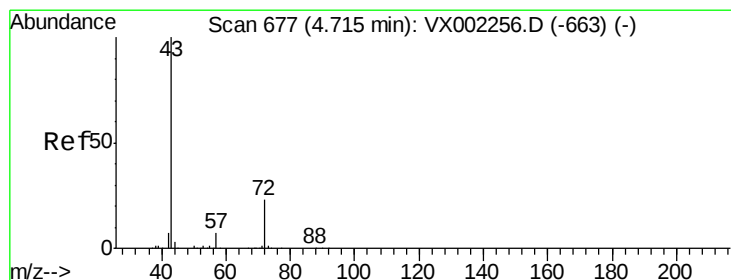
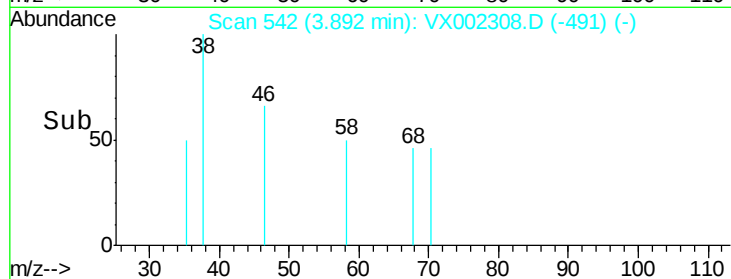
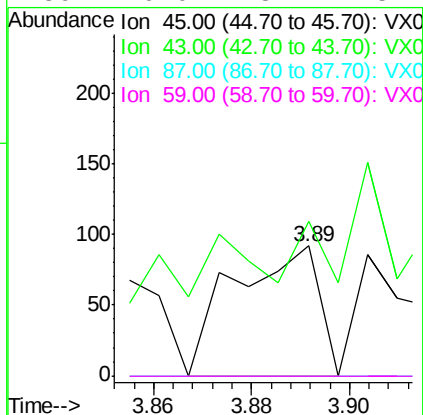
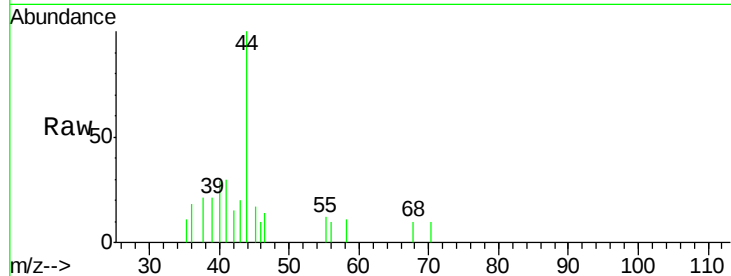


#22

Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 542
Delta R.T. 0.01 min
Lab File: VX002308.D
Acq: 05 Jun 2018 16:24

Instrument :
MSVOA_X
ClientSampled :

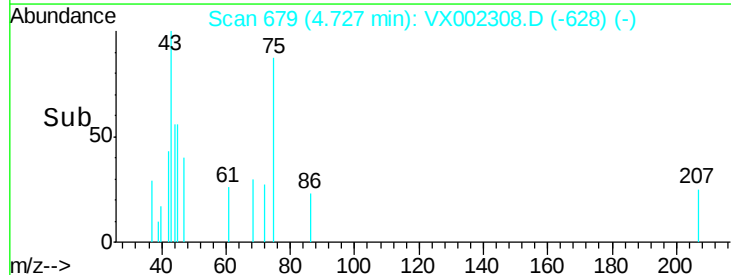
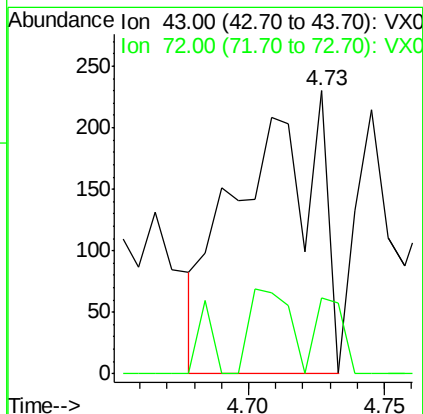
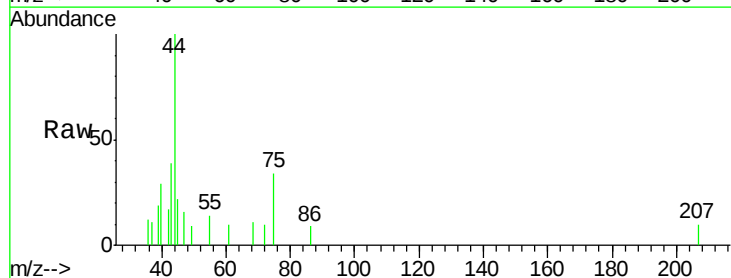
Tot Ion: 45 Resp: 110
Ion Ratio Lower Upper
45 100
43 57.6 46.8 70.2
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#

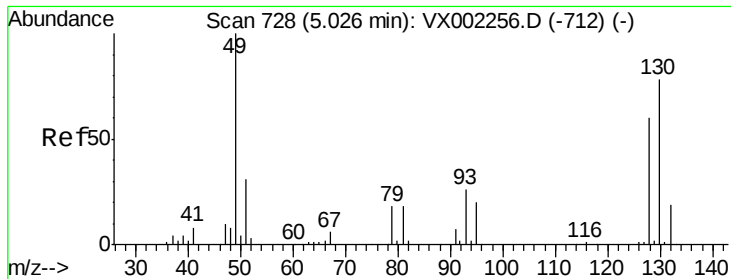


#25

2-Butanone
Concen: 0.21 ug/l
RT: 4.73 min Scan# 679
Delta R.T. 0.01 min
Lab File: VX002308.D
Acq: 05 Jun 2018 16:24

Tgt Ion: 43 Resp: 465
Ion Ratio Lower Upper
43 100
72 27.0 18.5 27.7



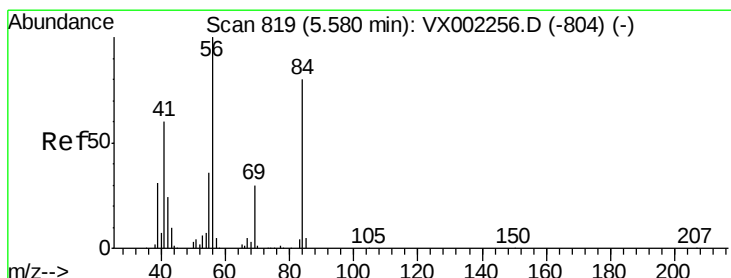
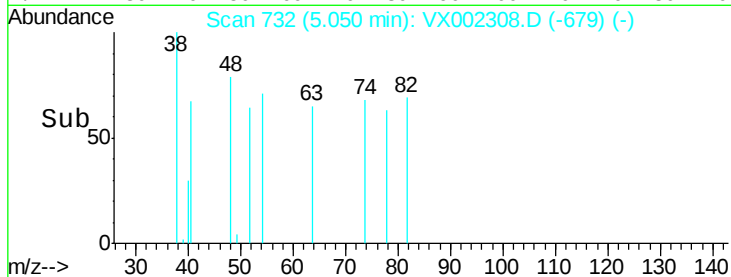
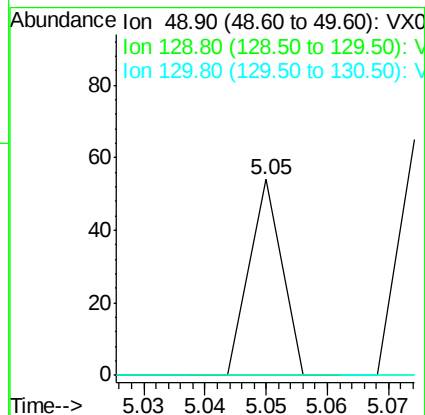
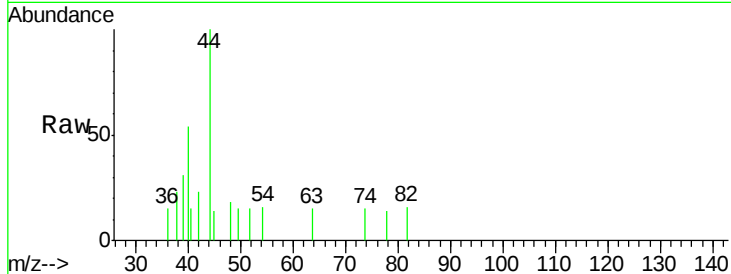


#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.05 min Scan# 732
 Delta R.T. 0.02 min
 Lab File: VX002308.D
 Acq: 05 Jun 2018 16:24

Instrument :
 MSVOA_X
 ClientSampled :

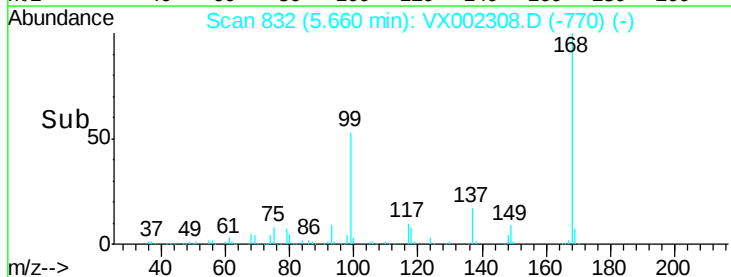
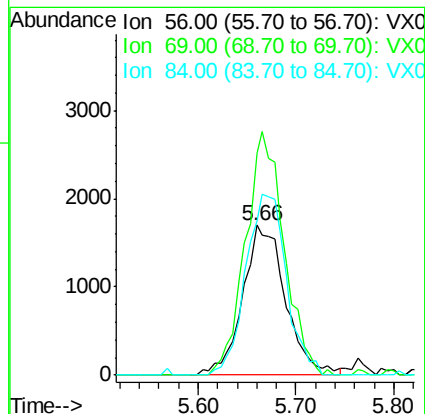
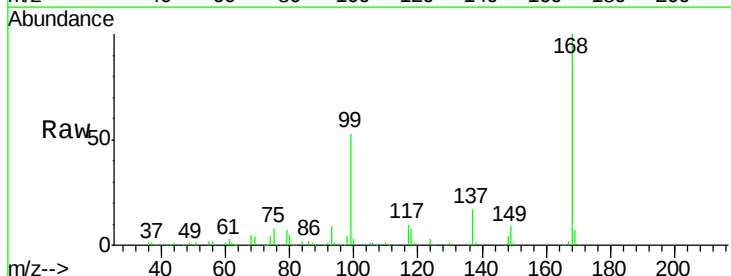
Tot Ion: 49 Resp: 20
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 4.2
 130 0.0 61.2 91.8#



#31

Cyclohexane
 Concen: 1.25 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. 0.08 min
 Lab File: VX002308.D
 Acq: 05 Jun 2018 16:24

Tgt Ion: 56 Resp: 5194
 Ion Ratio Lower Upper
 56 100
 69 148.2 23.7 35.5#
 84 102.9 64.1 96.1#





#33

1,2-Dichloroethane-d4

Concen: 49.29 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002308.D

Acq: 05 Jun 2018 16:24

Instrument :

MSVOA_X

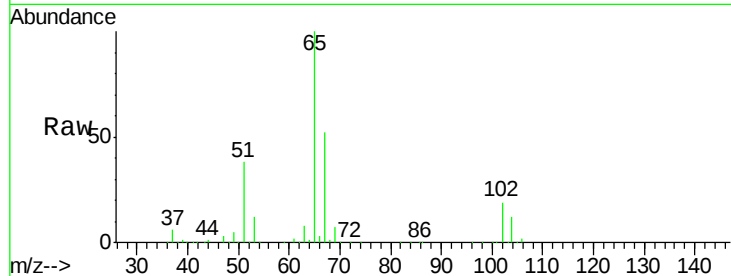
ClientSampleId :

Tot Ion: 65 Resp: 162837

Ion Ratio Lower Upper

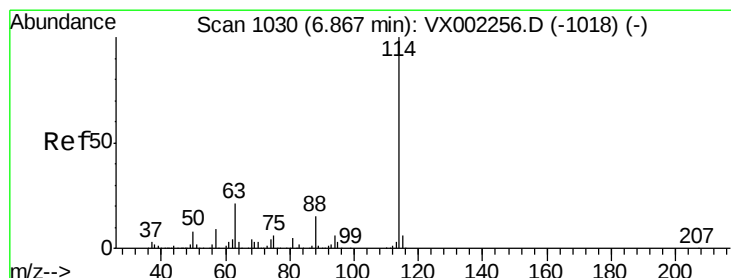
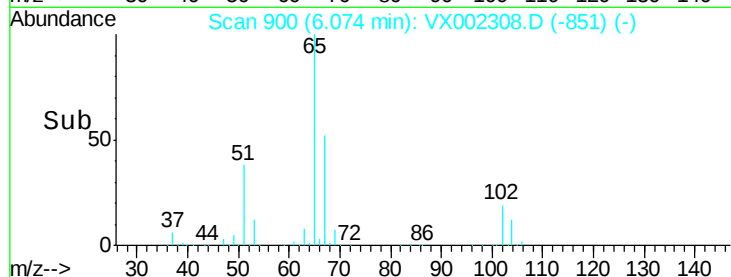
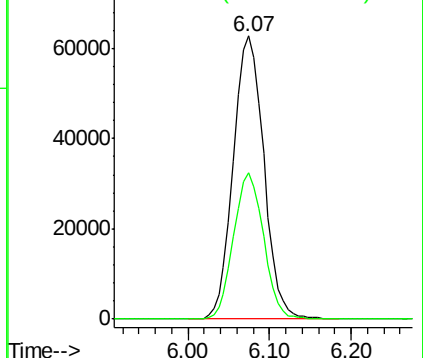
65 100

67 50.9 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: VX002308.D

Acq: 05 Jun 2018 16:24

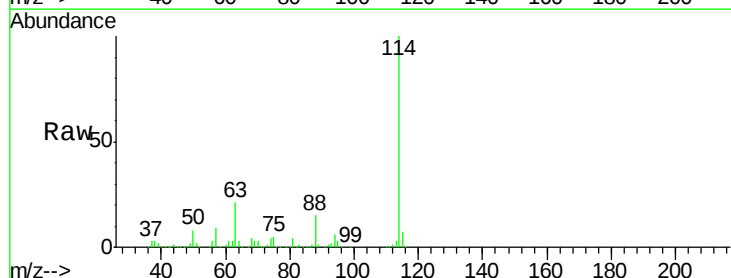
Tgt Ion: 114 Resp: 337530

Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.4

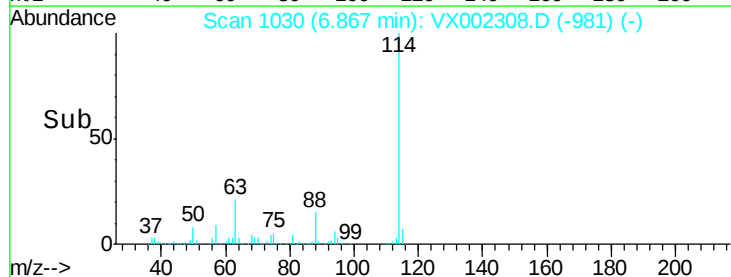
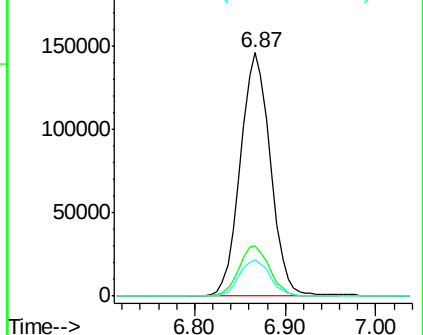
88 14.9 0.0 30.0

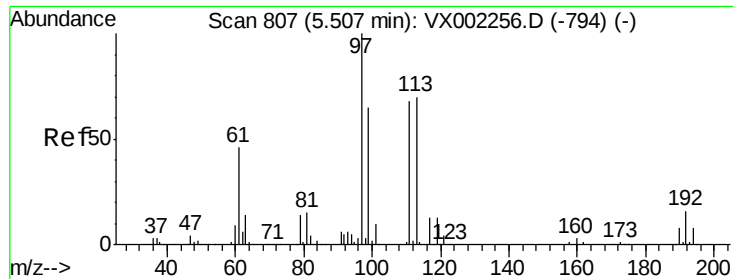


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

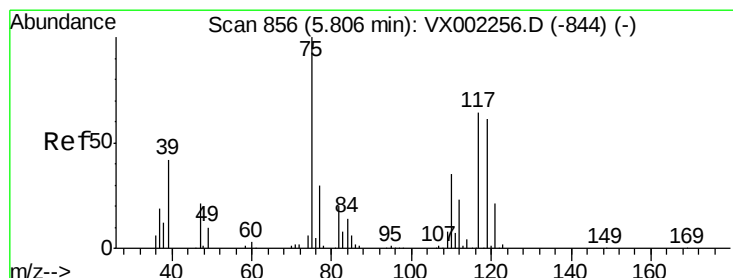
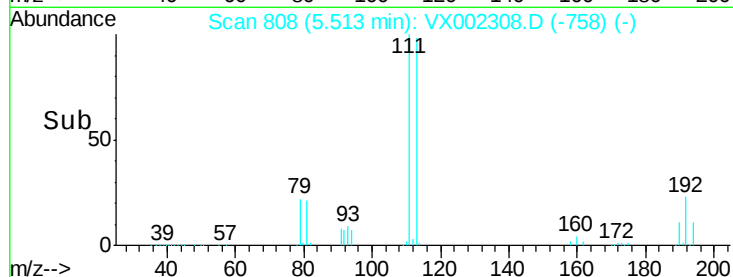
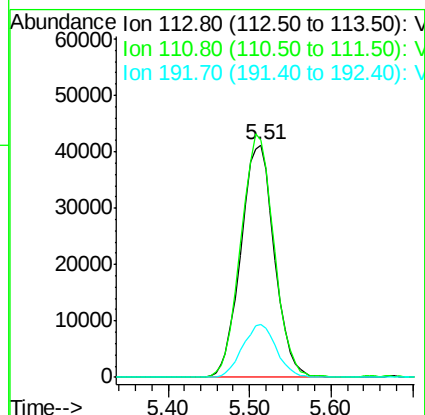
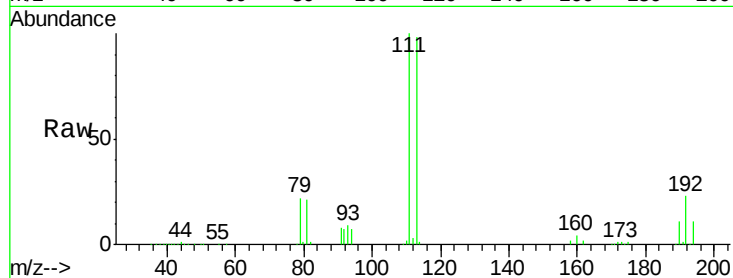




#35
 Dibromofluoromethane
 Concen: 44.38 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX002308.D
 Acq: 05 Jun 2018 16:24

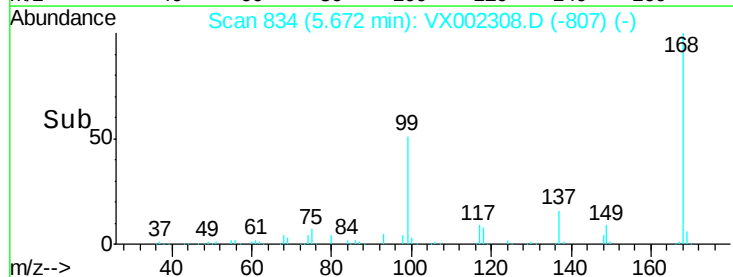
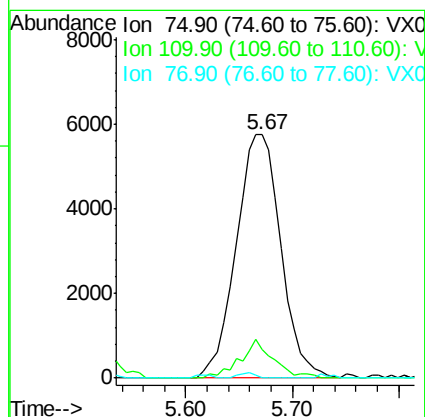
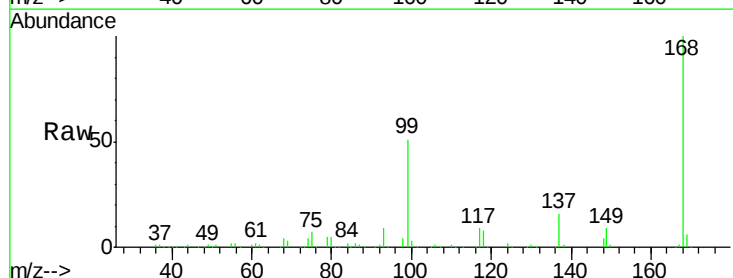
Instrument :
 MSVOA_X
 ClientSampled :

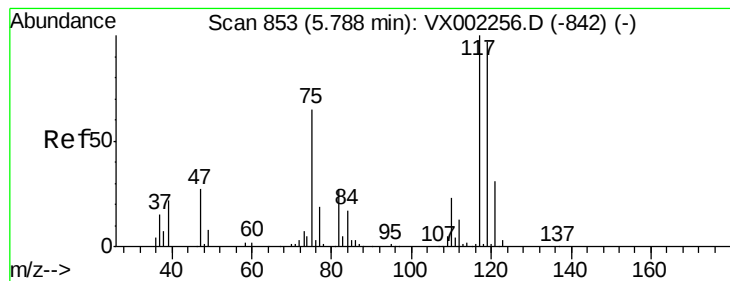
Tot Ion:113 Resp: 117805
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.4 122.0
 192 22.9 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.76 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002308.D
 Acq: 05 Jun 2018 16:24

Tgt Ion: 75 Resp: 16899
 Ion Ratio Lower Upper
 75 100
 110 11.8 18.1 54.4#
 77 0.8 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.83 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002308.D

Acq: 05 Jun 2018 16:24

Instrument :

MSVOA_X

ClientSampled :

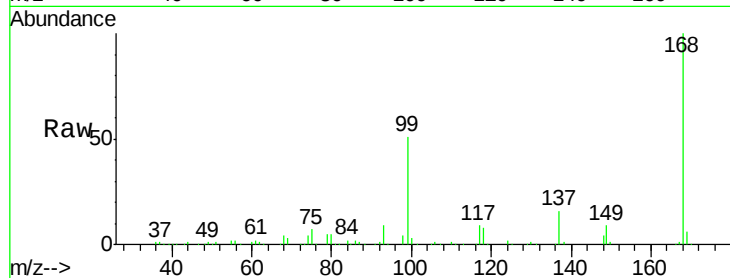
Tot Ion:117 Resp: 21627

Ion Ratio Lower Upper

117 100

119 5.2 77.4 116.0#

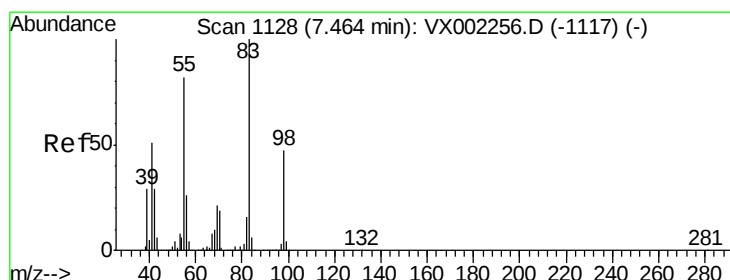
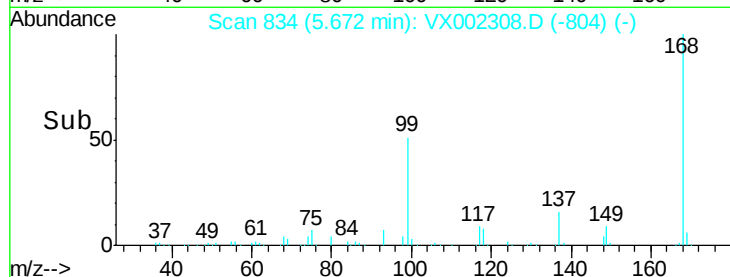
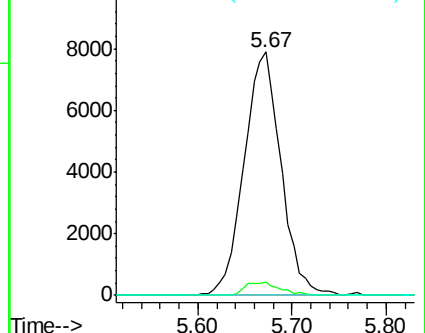
121 0.0 24.4 36.6#



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

Methylcyclohexane

Concen: 0.27 ug/l

RT: 7.43 min Scan# 1122

Delta R.T. -0.04 min

Lab File: VX002308.D

Acq: 05 Jun 2018 16:24

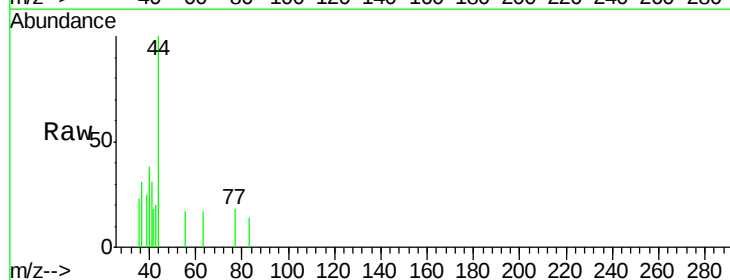
Tgt Ion: 83 Resp: 20

Ion Ratio Lower Upper

83 100

55 116.7 65.4 98.0#

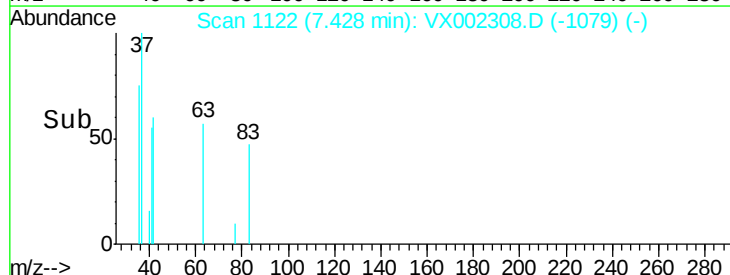
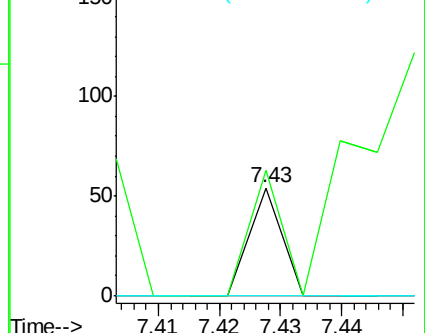
98 0.0 37.4 56.0#

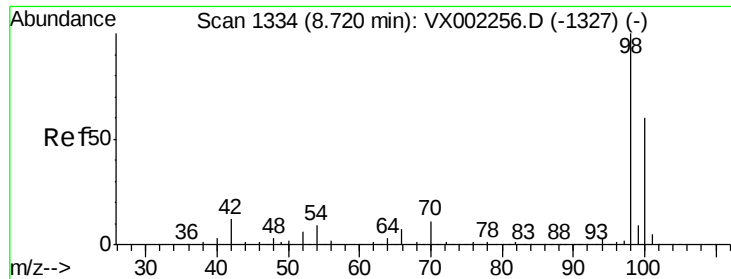


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 47.25 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002308.D

Acq: 05 Jun 2018 16:24

Instrument :

MSVOA_X

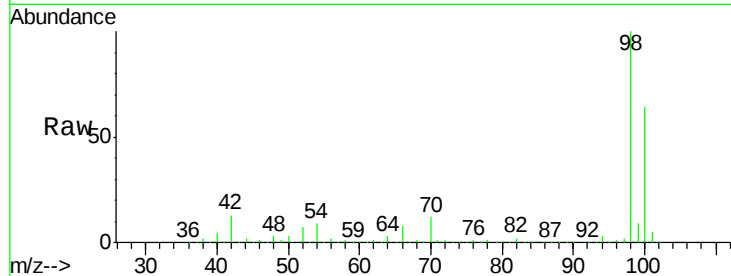
ClientSampleId :

Tot Ion: 98 Resp: 480748

Ion Ratio Lower Upper

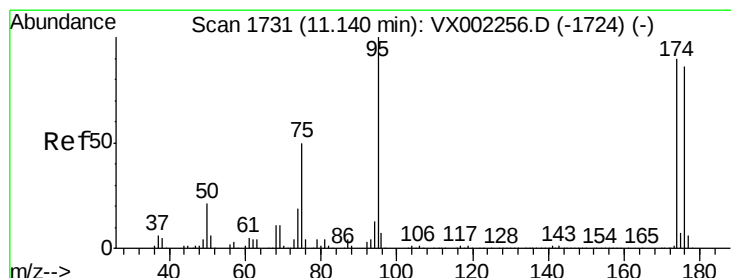
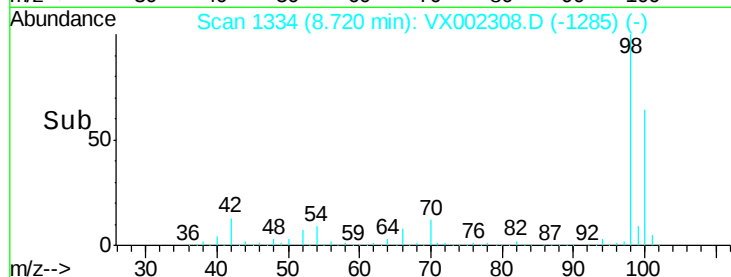
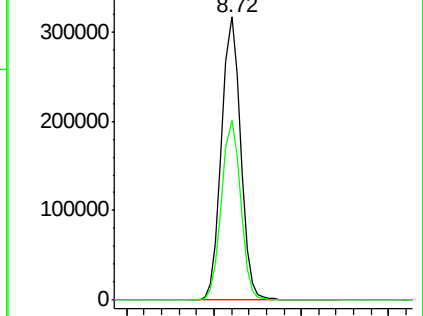
98 100

100 63.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 40.46 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002308.D

Acq: 05 Jun 2018 16:24

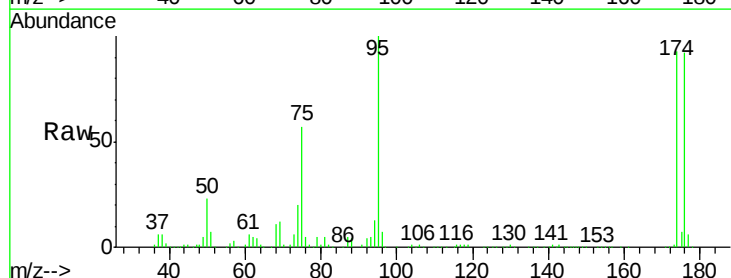
Tgt Ion: 95 Resp: 158740

Ion Ratio Lower Upper

95 100

174 95.1 0.0 187.4

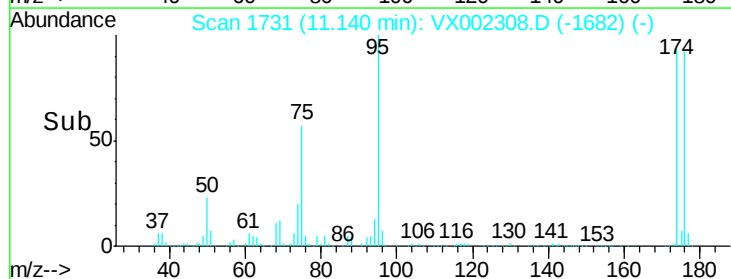
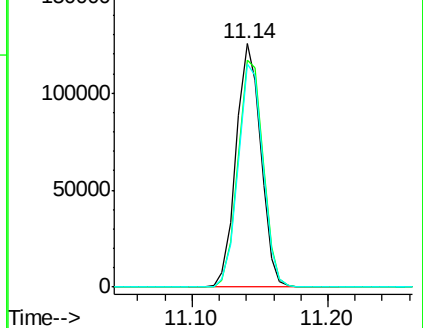
176 91.7 0.0 181.0

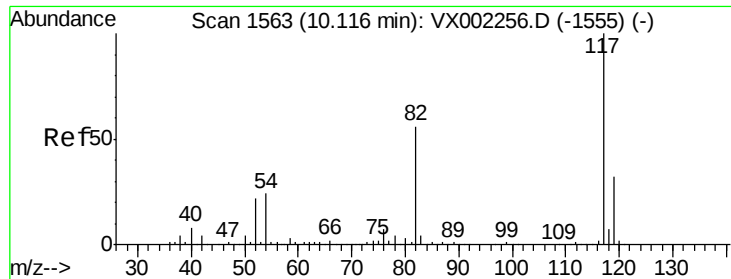


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002308.D

Acq: 05 Jun 2018 16:24

Instrument :

MSVOA_X

ClientSampleId :

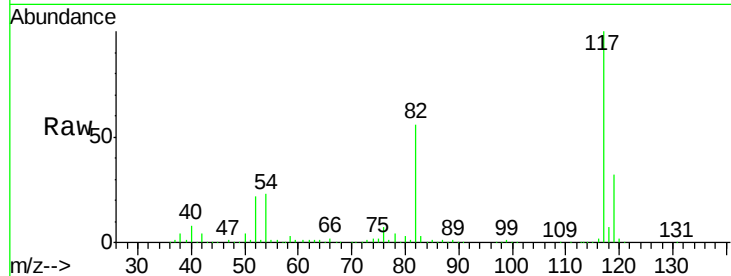
Tot Ion:117 Resp: 301260

Ion Ratio Lower Upper

117 100

82 55.6 45.0 67.4

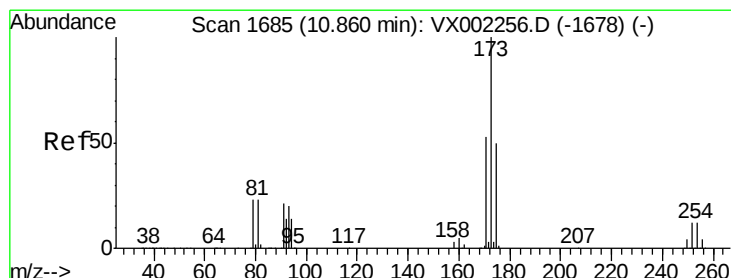
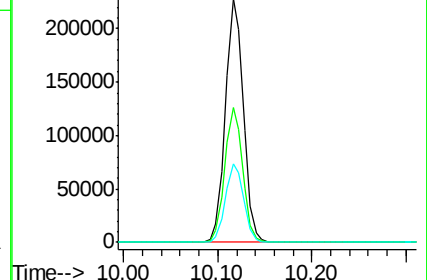
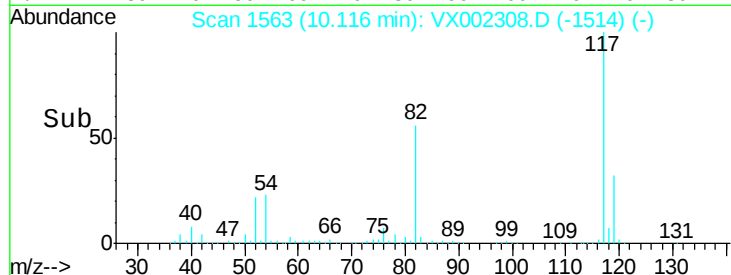
119 32.2 25.8 38.6



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: 3.53 ug/l

RT: 10.86 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VX002308.D

Acq: 05 Jun 2018 16:24

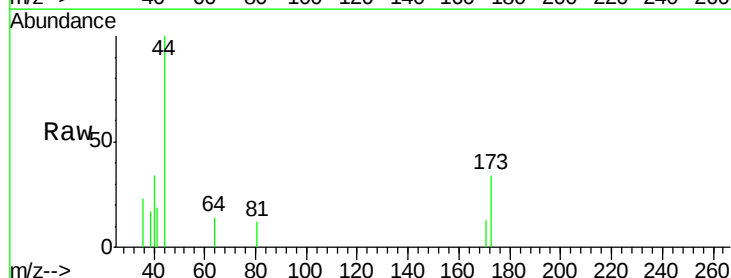
Tgt Ion:173 Resp: 183

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

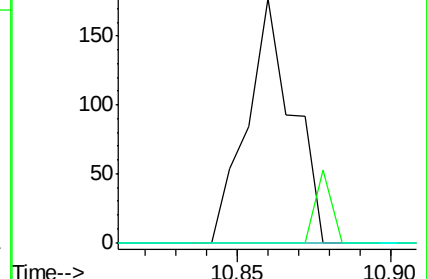
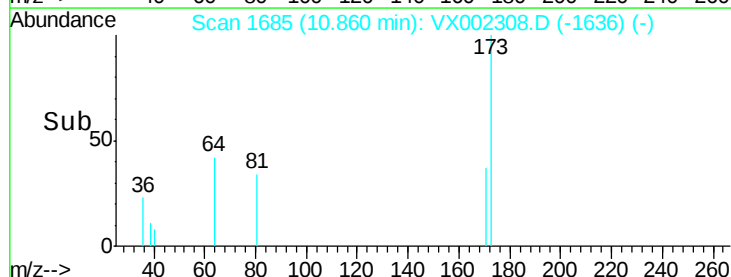
254 0.0 0.2 0.2#

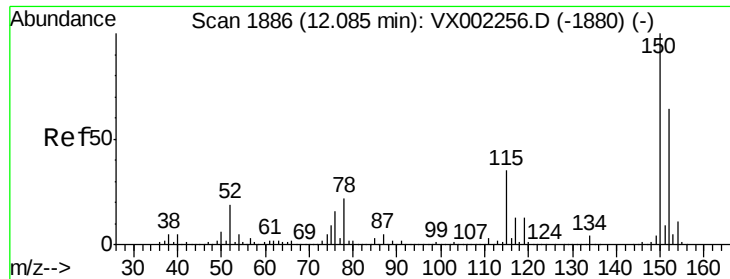


Abundance Ion 172.70 (172.40 to 173.40): V

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: VX002308.D

Acq: 05 Jun 2018 16:24

Instrument :

MSVOA_X

ClientSampled :

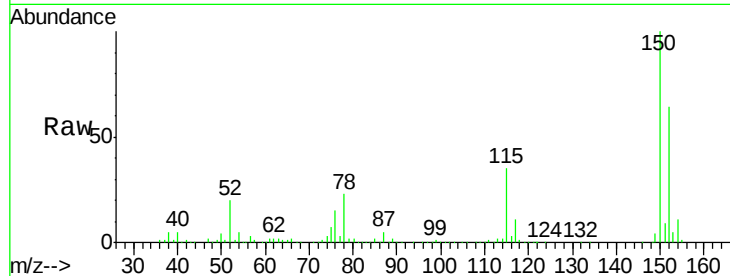
Tot Ion:152 Resp: 161733

Ion Ratio Lower Upper

152 100

115 55.2 40.1 120.2

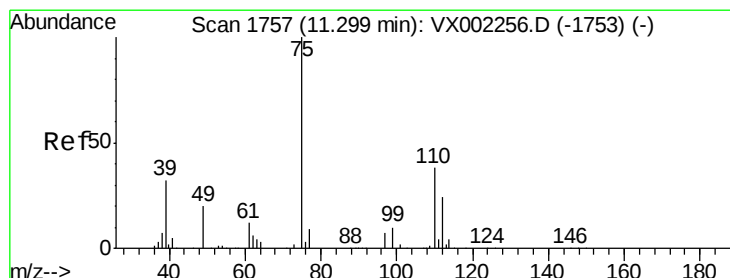
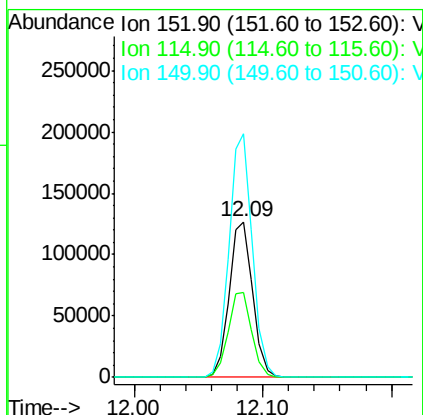
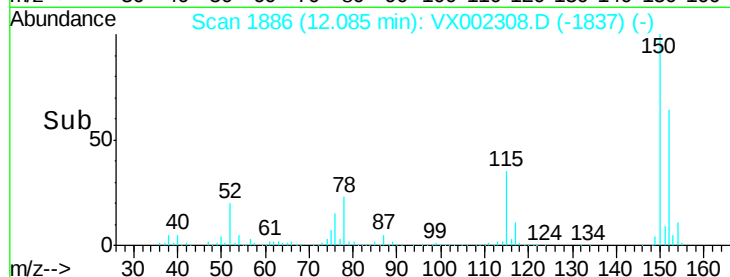
150 155.1 0.0 347.2



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: 24.62 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002308.D

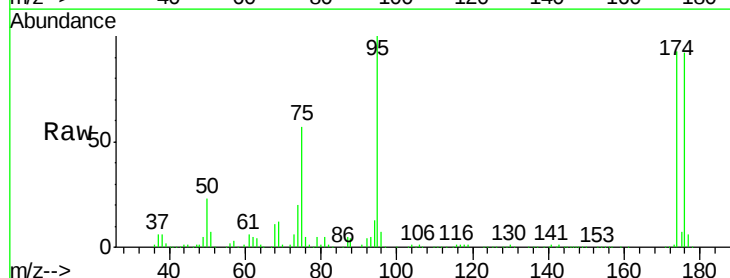
Acq: 05 Jun 2018 16:24

Tgt Ion: 75 Resp: 87387

Ion Ratio Lower Upper

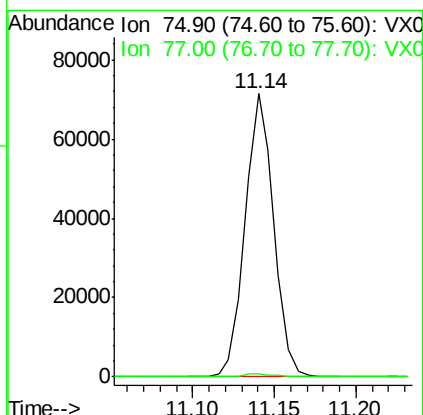
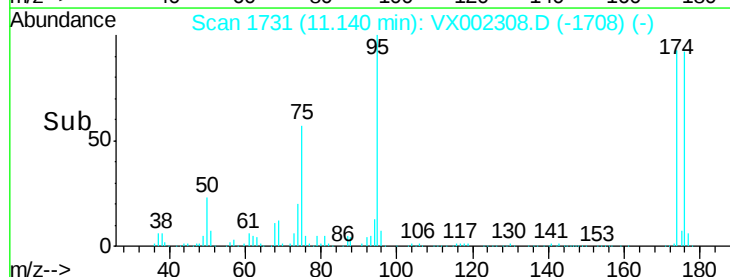
75 100

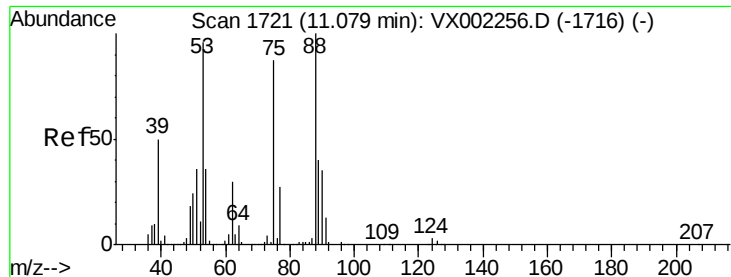
77 1.2 22.8 68.3#



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: 86.32 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002308.D

Acq: 05 Jun 2018 16:24

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 87387

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.0 38.2 57.2#

