

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060518\
 Data File : VX002328.D
 Acq On : 06 Jun 2018 02:10
 Operator : JC/MD
 Sample : J3308-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 06 04:39:14 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	225887	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	326674	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	297211	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	164628	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	156810	48.44	ug/l	0.00
Spiked Amount			Recovery	=	96.88%	
35) Dibromofluoromethane	5.51	113	113249	44.08	ug/l	0.00
Spiked Amount			Recovery	=	88.16%	
50) Toluene-d8	8.72	98	467861	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
62) 4-Bromofluorobenzene	11.14	95	160447	42.26	ug/l	0.00
Spiked Amount			Recovery	=	84.52%	

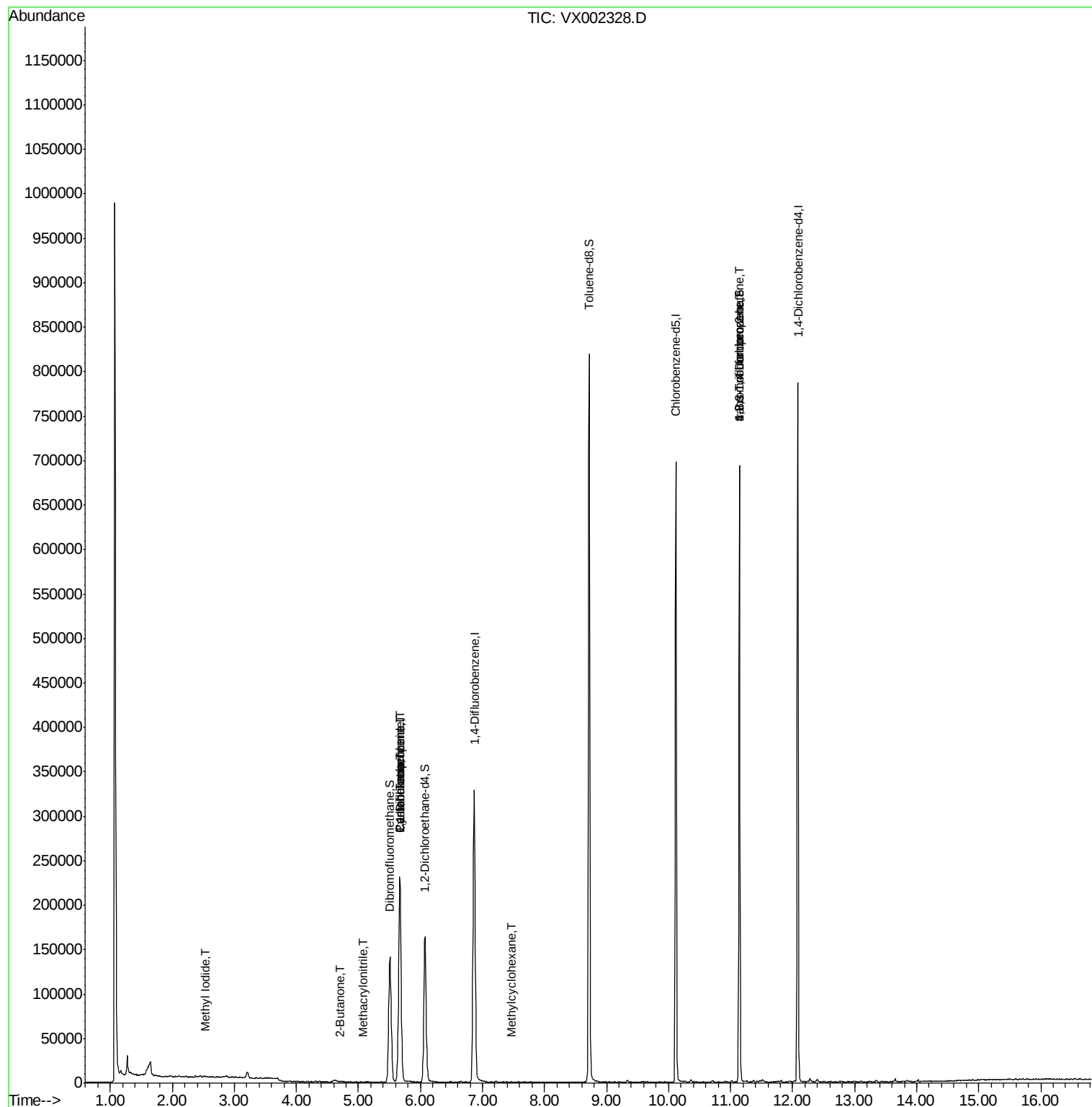
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	530	Below Cal	#	66
5) Bromomethane	1.64	94	1133	Below Cal		90
8) Diethyl Ether	2.16	74	75	Below Cal	#	1
10) Methyl Iodide	2.53	142	1584	0.46	ug/l	89
11) Tert butyl alcohol	3.08	59	620	Below Cal	#	42
13) Acrolein	2.30	56	128	Below Cal	#	72
15) Acrylonitrile	3.13	53	129	Below Cal	#	28
16) Acetone	2.45	43	1011	Below Cal	#	83
18) Methyl Acetate	2.77	43	425	Below Cal	#	74
19) Methyl tert-butyl Ether	3.21	73	6565	Below Cal		93
20) Methylene Chloride	2.86	84	635	Below Cal		92
22) Diisopropyl ether	3.87	45	112	Below Cal	#	35
25) 2-Butanone	4.71	43	495	0.22	ug/l	52
28) Bromochloromethane	4.99	49	19	Below Cal	#	13
31) Cyclohexane	5.67	56	5285	1.30	ug/l	1
36) 1,1-Dichloropropene	5.66	75	16460	4.79	ug/l	50
38) Carbon Tetrachloride	5.67	117	21388	5.95	ug/l	16
39) Methylcyclohexane	7.48	83	202	0.31	ug/l	58
41) Methacrylonitrile	5.09	41	507	0.21	ug/l	45
76) 1,2,3-Trichloropropane	11.14	75	86736	24.01	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	86736	84.17	ug/l	6

(#) = 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# 833

Delta R.T. -0.01 min

Lab File: VX002328.D

Acq: 06 Jun 2018 02:10

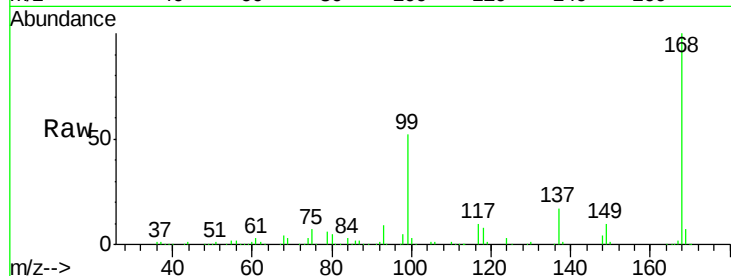
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 225887

Ion Ratio Lower Upper

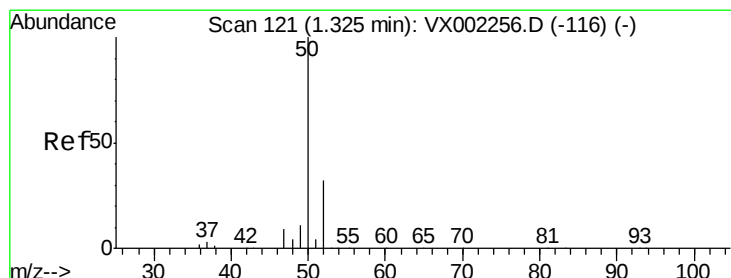
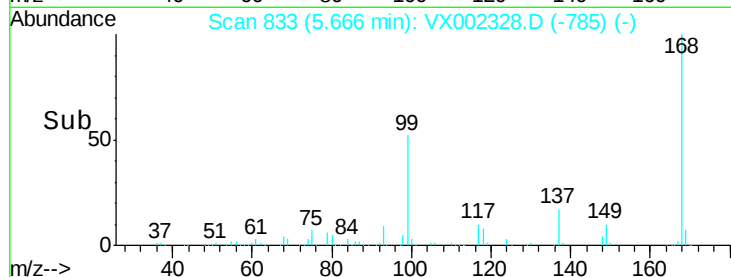
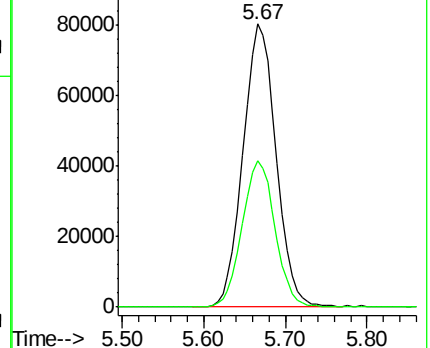
168 100

99 51.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002328.D

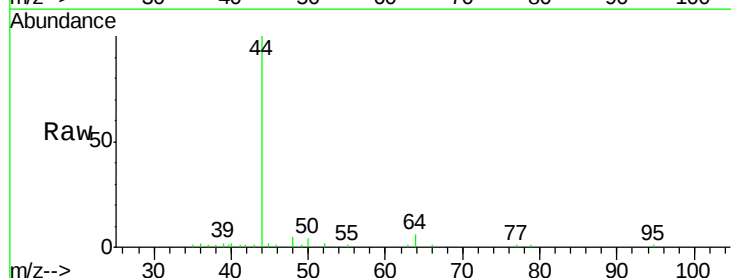
Acq: 06 Jun 2018 02:10

Tgt Ion: 50 Resp: 530

Ion Ratio Lower Upper

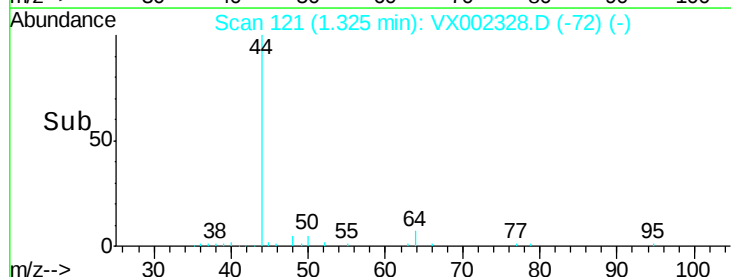
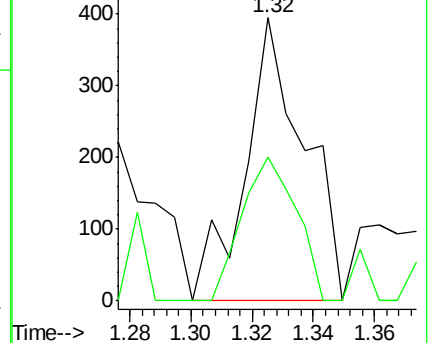
50 100

52 50.9 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002328.D

Acq: 06 Jun 2018 02:10

Instrument :

MSVOA_X

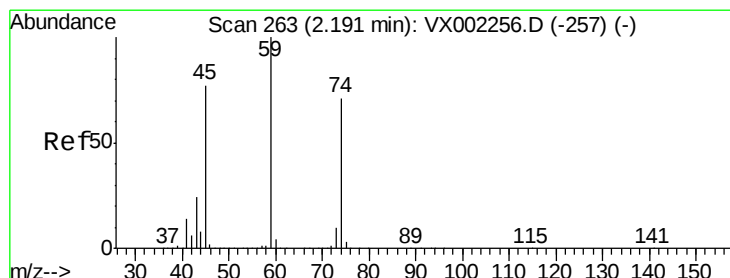
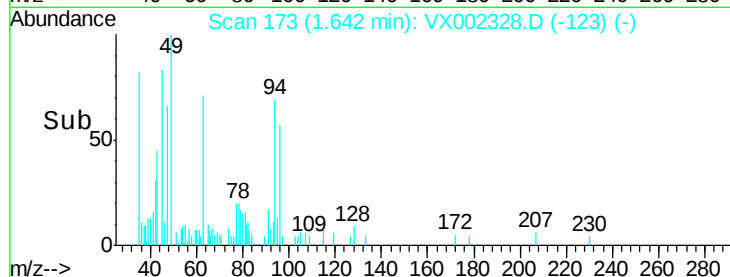
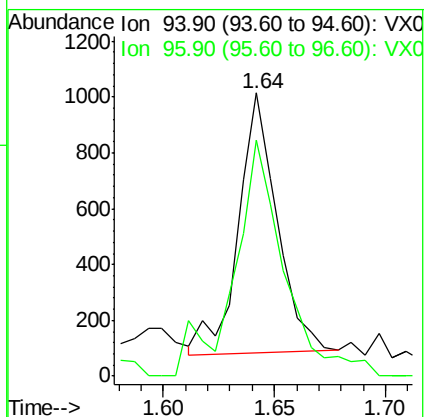
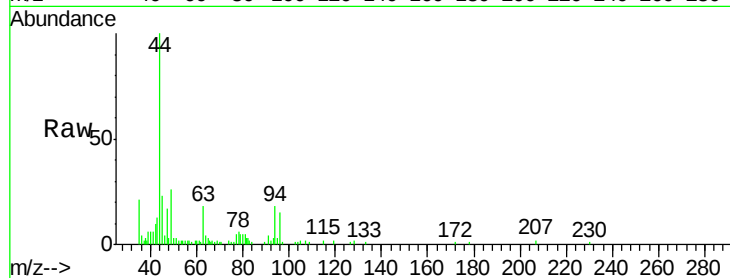
ClientSampled :

Tot Ion: 94 Resp: 1133

Ion Ratio Lower Upper

94 100

96 83.9 74.9 112.3



#8

Diethyl Ether

Concen: Below Cal

RT: 2.16 min Scan# 258

Delta R.T. -0.03 min

Lab File: VX002328.D

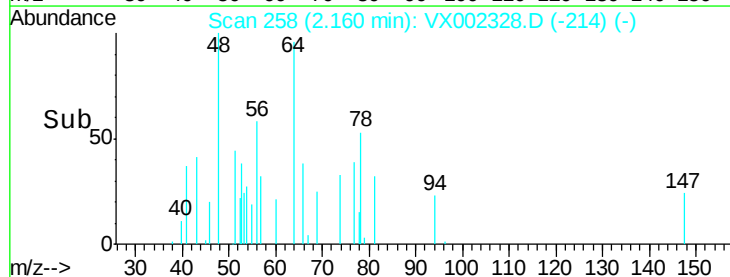
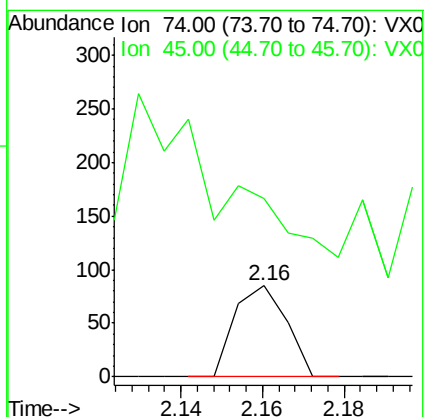
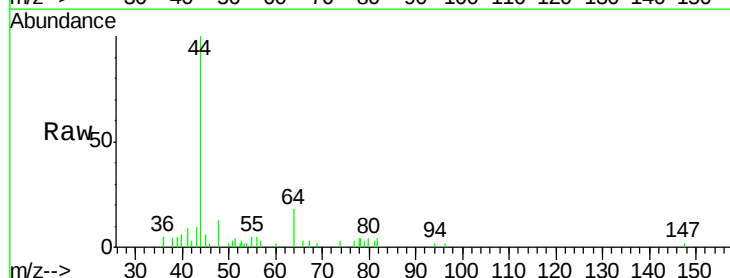
Acq: 06 Jun 2018 02:10

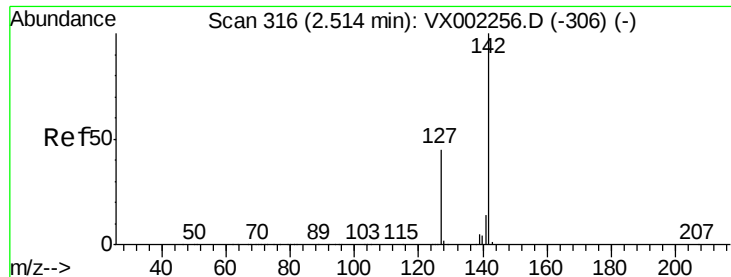
Tgt Ion: 74 Resp: 75

Ion Ratio Lower Upper

74 100

45 0.0 53.1 159.4#

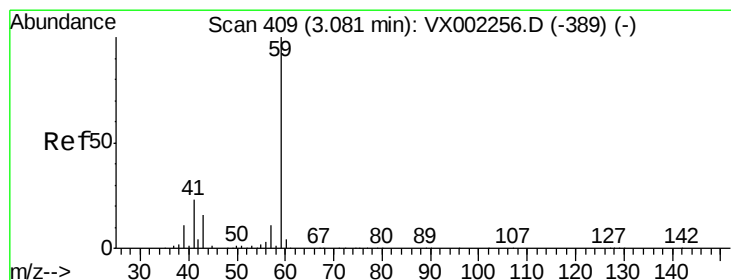
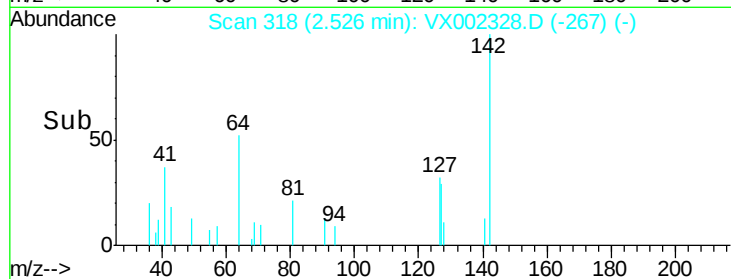
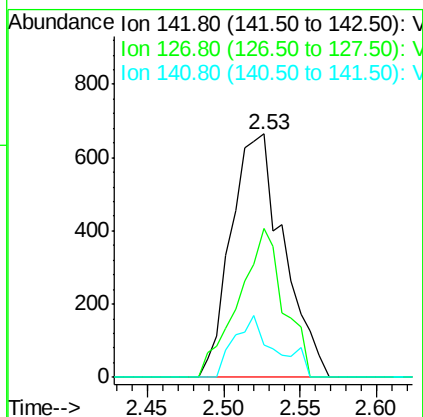
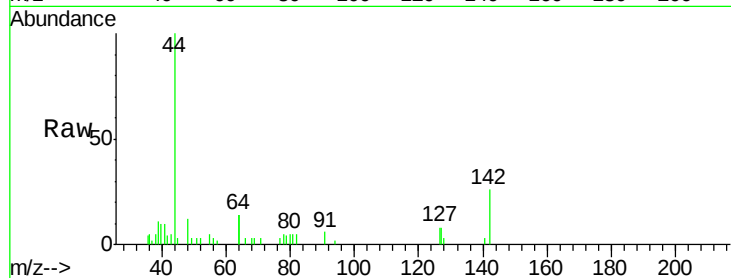




#10
Methvl Iodide
Concen: 0.46 ua/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002328.D
Acq: 06 Jun 2018 02:10

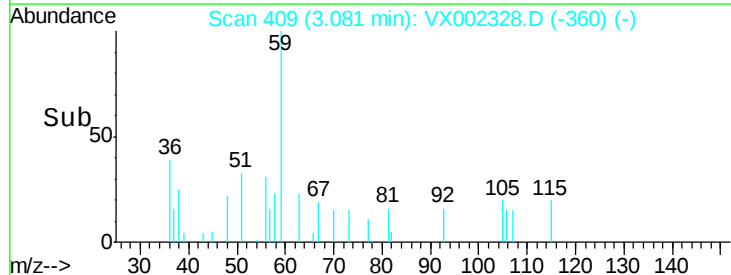
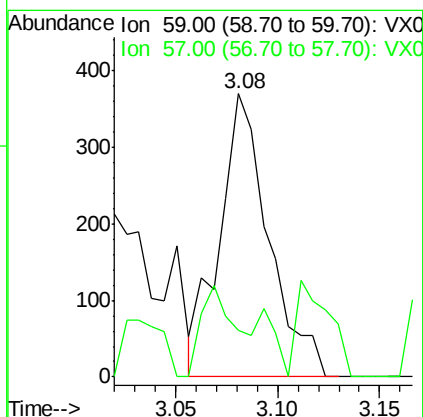
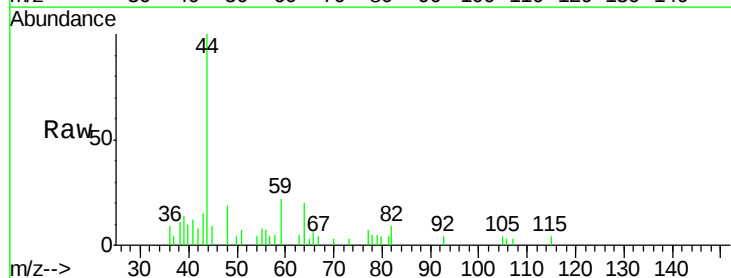
Instrument :
MSVOA_X
ClientSampleId :

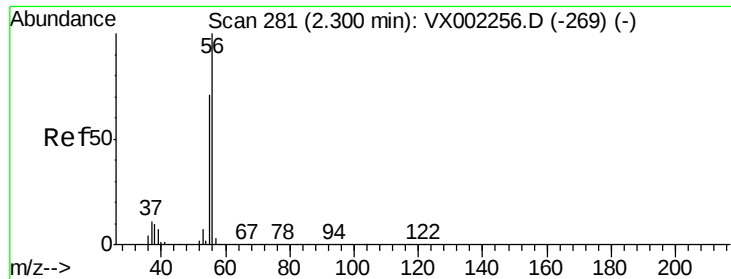
Tot Ion:142 Resp: 1584
Ion Ratio Lower Upper
142 100
127 52.8 36.6 55.0
141 19.6 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002328.D
Acq: 06 Jun 2018 02:10

Tgt Ion: 59 Resp: 620
Ion Ratio Lower Upper
59 100
57 31.9 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX002328.D

Acq: 06 Jun 2018 02:10

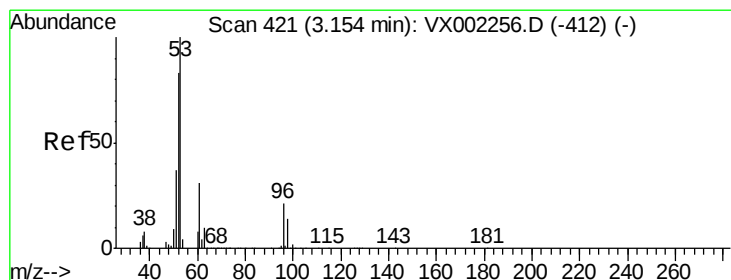
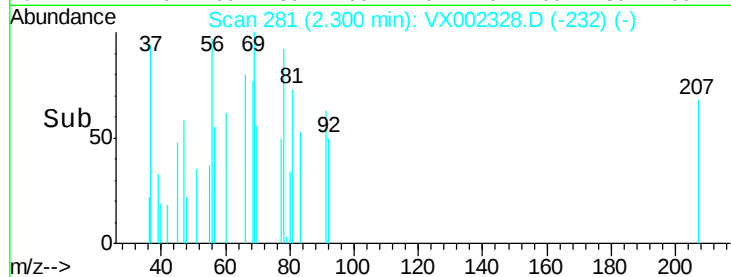
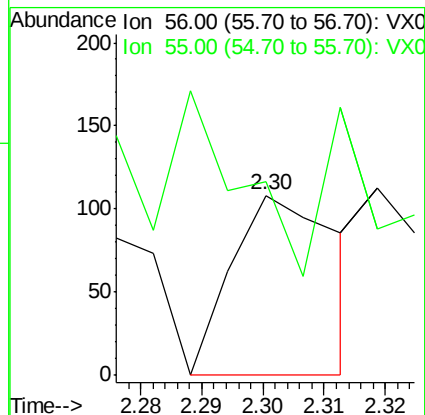
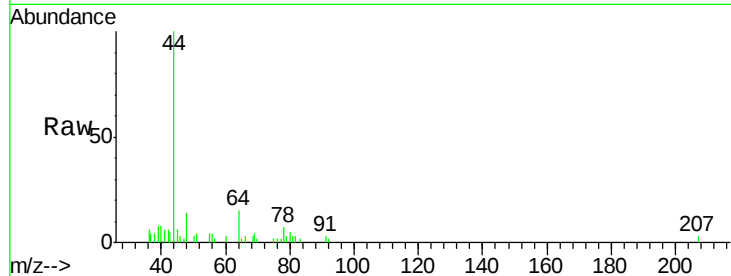
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 128

Ion Ratio Lower Upper

56 100

55 47.7 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.13 min Scan# 417

Delta R.T. -0.02 min

Lab File: VX002328.D

Acq: 06 Jun 2018 02:10

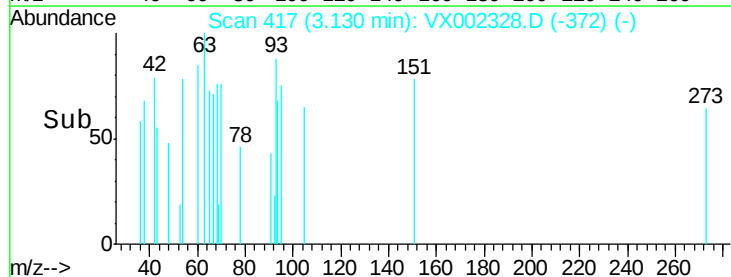
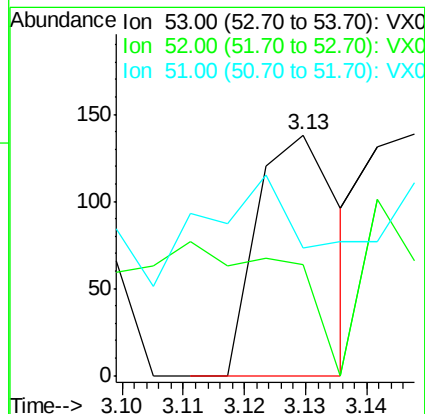
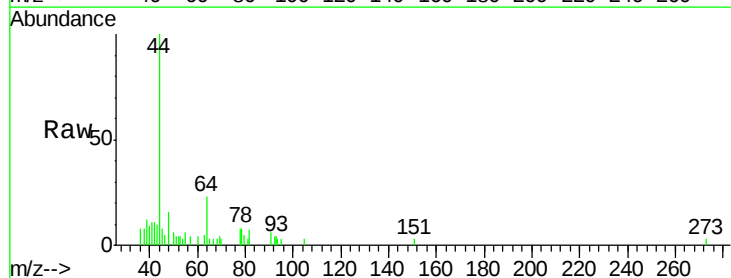
Tgt Ion: 53 Resp: 129

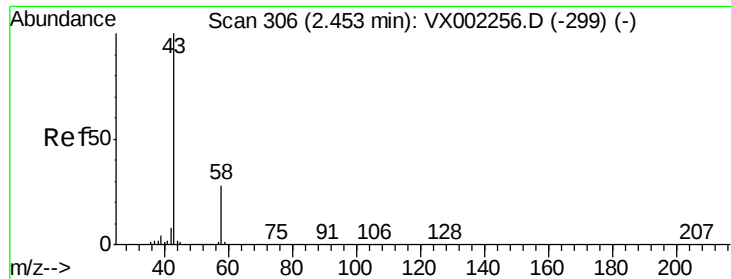
Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 54.3 29.9 44.9#

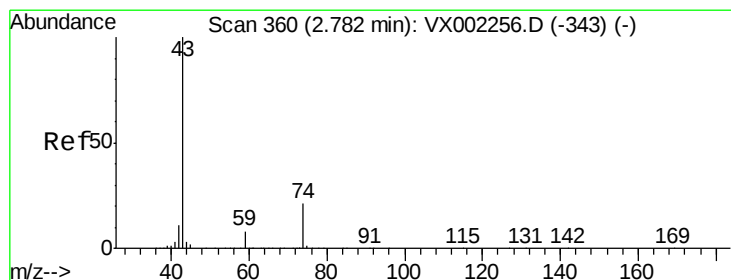
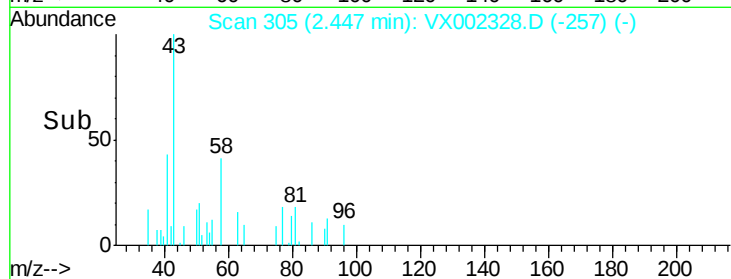
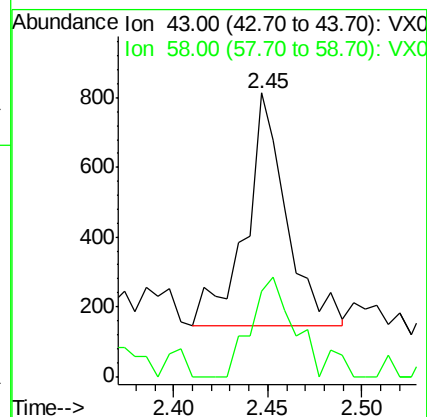
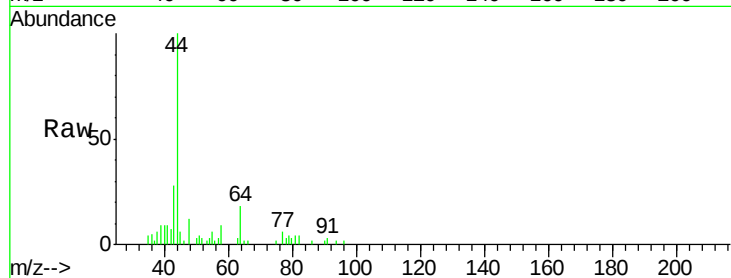




#16
Acetone
Concen: Below Cal
RT: 2.45 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX002328.D
Acq: 06 Jun 2018 02:10

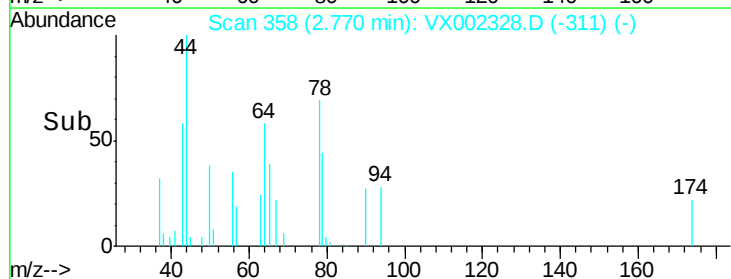
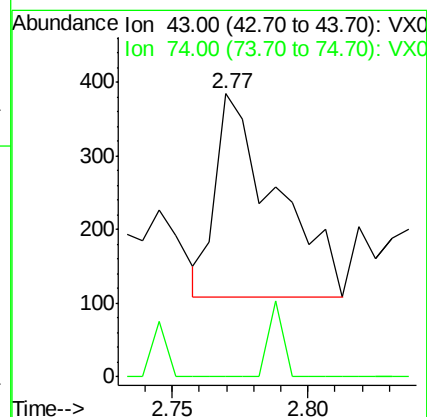
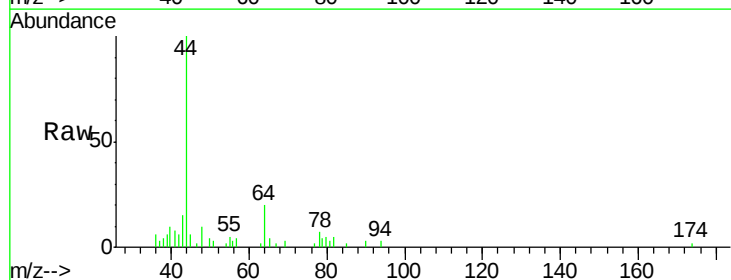
Instrument :
MSVOA_X
ClientSampleId :

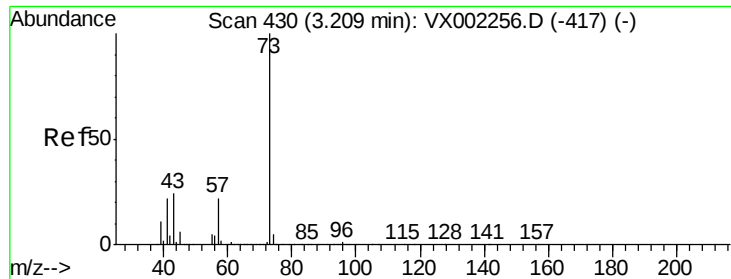
Tot Ion: 43 Resp: 1011
Ion Ratio Lower Upper
43 100
58 36.5 22.1 33.1#



#18
Methyl Acetate
Concen: Below Cal
RT: 2.77 min Scan# 358
Delta R.T. -0.01 min
Lab File: VX002328.D
Acq: 06 Jun 2018 02:10

Tgt Ion: 43 Resp: 425
Ion Ratio Lower Upper
43 100
74 8.9 16.7 25.1#

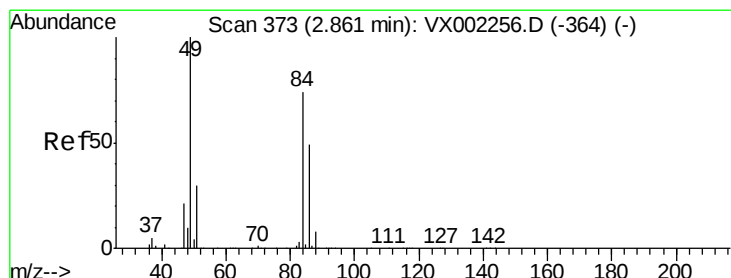
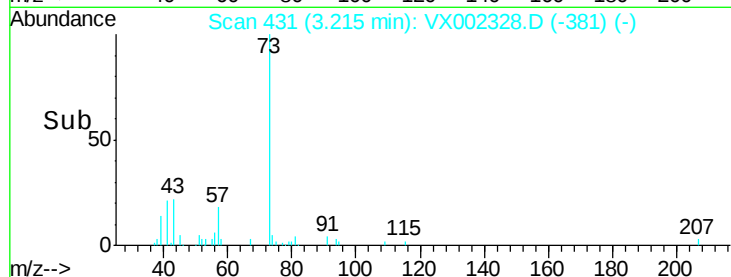
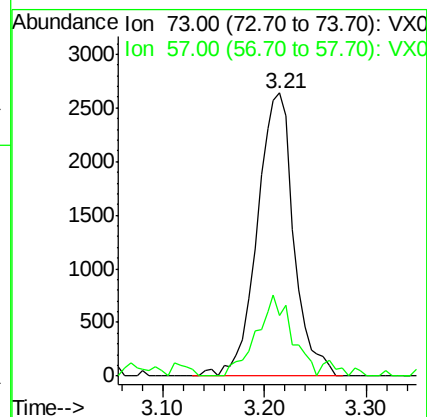
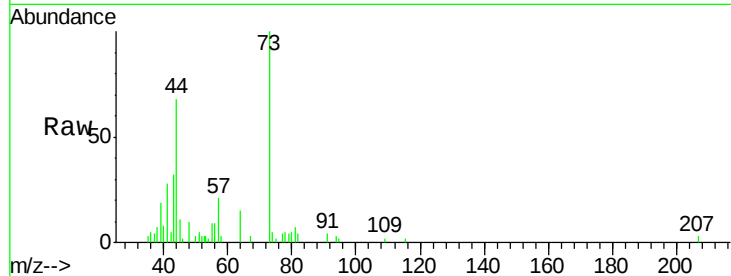




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX002328.D
Acq: 06 Jun 2018 02:10

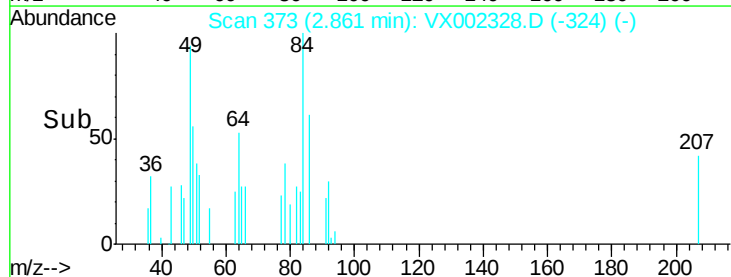
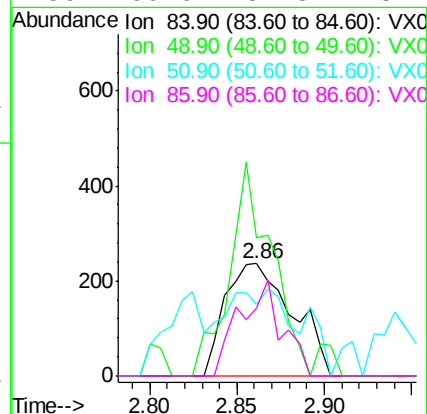
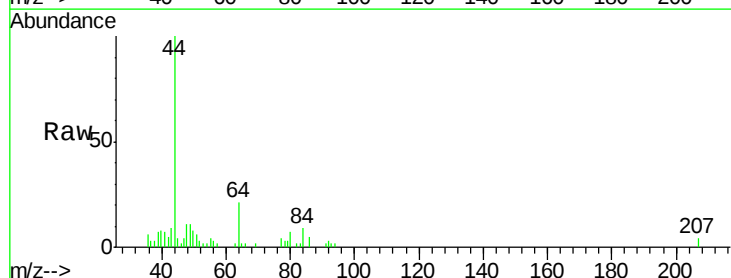
Instrument :
MSVOA_X
ClientSampled :

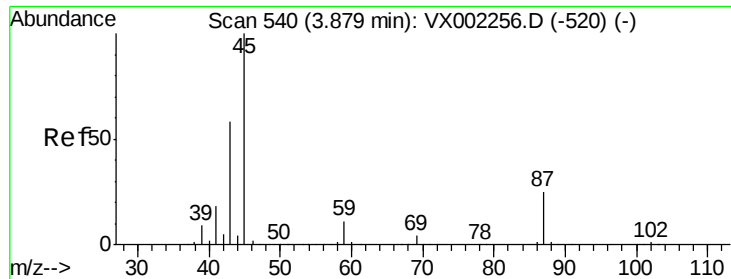
Tot Ion: 73 Resp: 6565
Ion Ratio Lower Upper
73 100
57 18.8 17.7 26.5



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002328.D
Acq: 06 Jun 2018 02:10

Tgt Ion: 84 Resp: 635
Ion Ratio Lower Upper
84 100
49 122.9 107.8 161.6
51 38.6 32.8 49.2
86 60.6 52.5 78.7

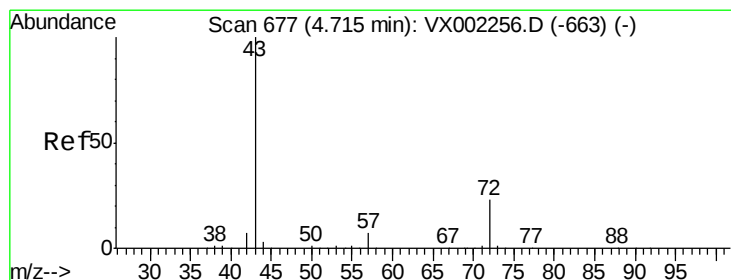
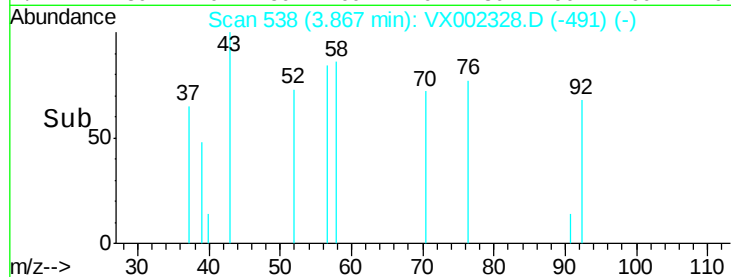
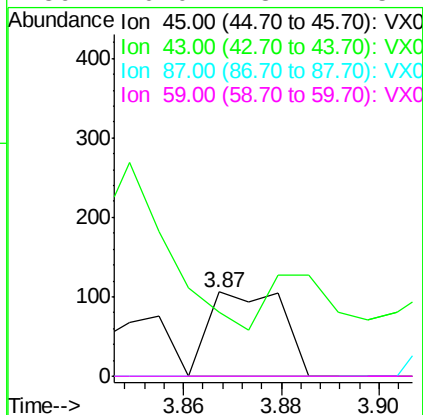
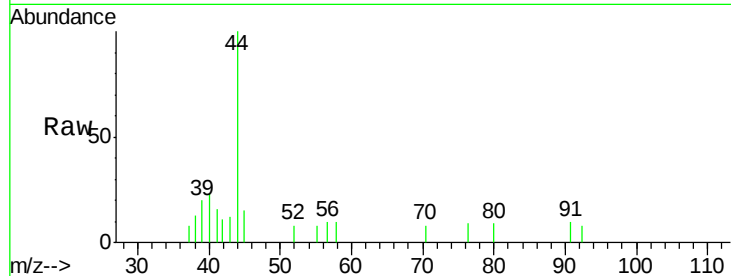




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 538
Delta R.T. -0.01 min
Lab File: VX002328.D
Acq: 06 Jun 2018 02:10

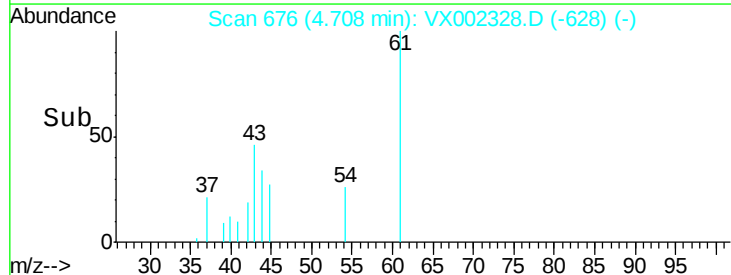
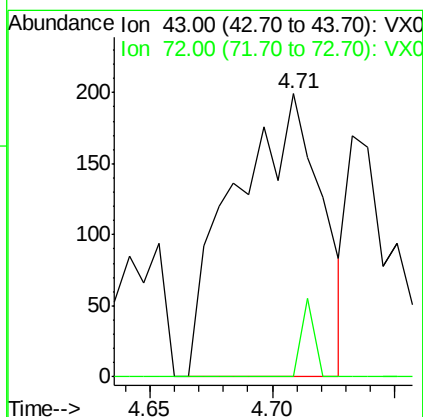
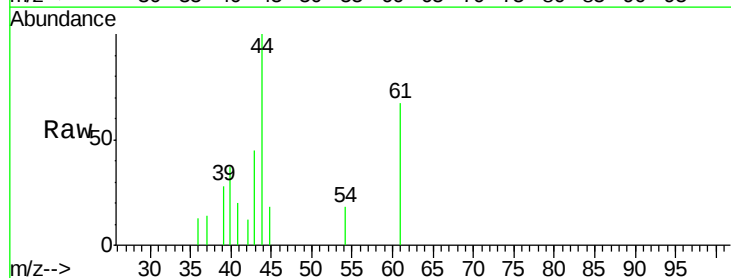
Instrument :
MSVOA_X
ClientSampleId :

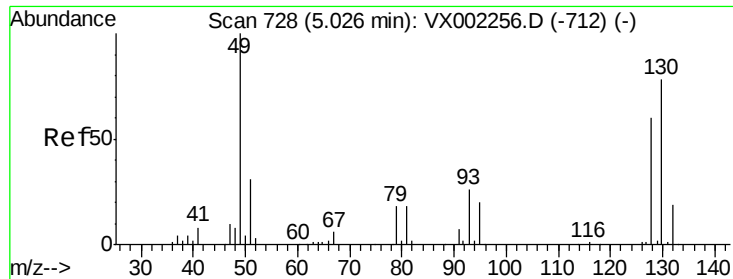
Tot Ion:	45	Resp:	112
Ion	Ratio	Lower	Upper
45	100		
43	0.0	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#



#25
2-Butanone
Concen: 0.22 ug/l
RT: 4.71 min Scan# 676
Delta R.T. -0.01 min
Lab File: VX002328.D
Acq: 06 Jun 2018 02:10

Tgt Ion:	43	Resp:	495
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.5	27.7#





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 722

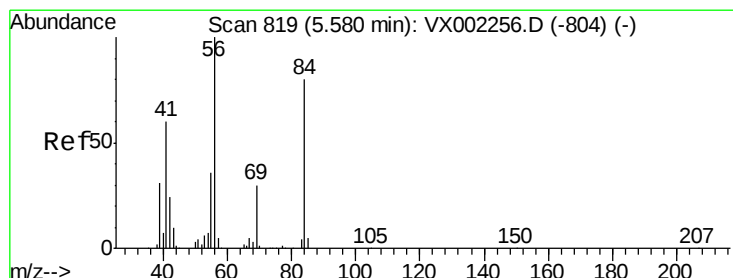
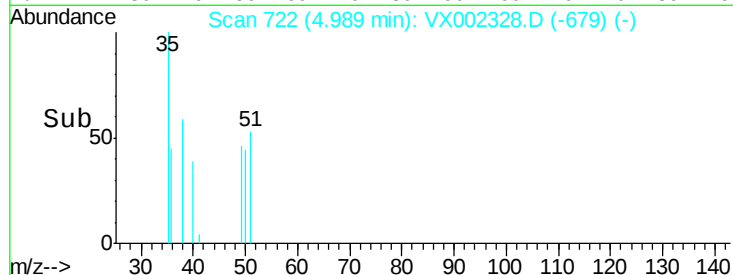
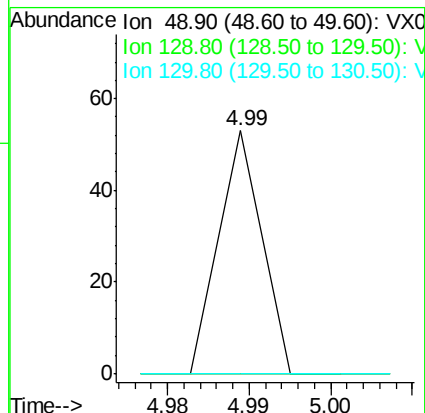
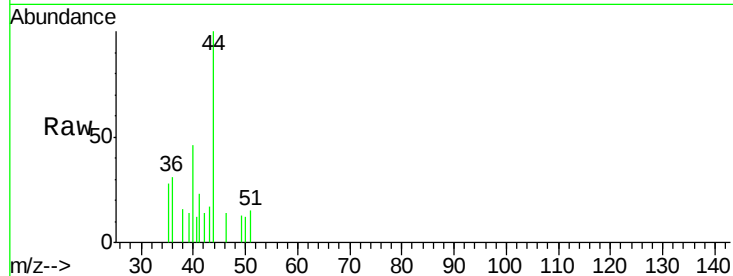
Delta R.T. -0.04 min

Lab File: VX002328.D

Acq: 06 Jun 2018 02:10

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 19
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



#31

Cyclohexane

Concen: 1.30 ug/l

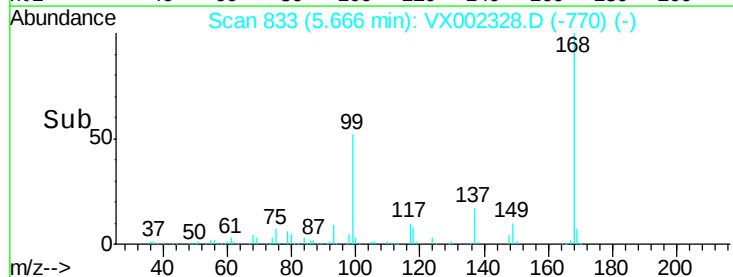
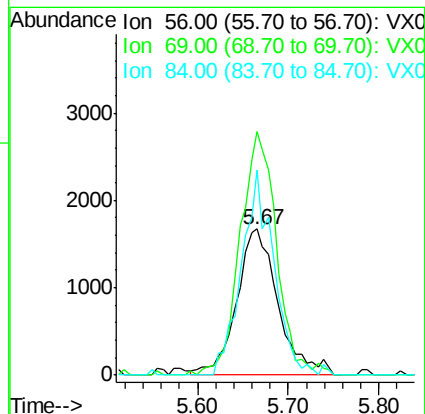
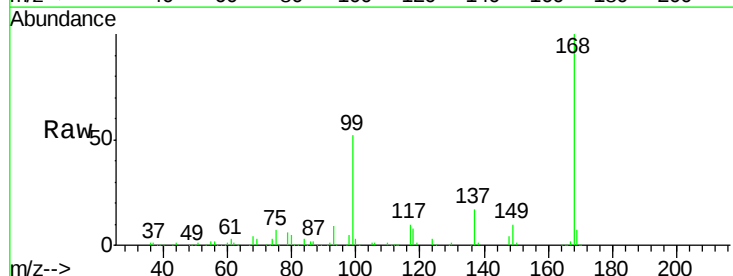
RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002328.D

Acq: 06 Jun 2018 02:10

Tgt Ion: 56 Resp: 5285
Ion Ratio Lower Upper
56 100
69 167.1 23.7 35.5#
84 141.2 64.1 96.1#





#33

1,2-Dichloroethane-d4

Concen: 48.44 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002328.D

Acq: 06 Jun 2018 02:10

Instrument :

MSVOA_X

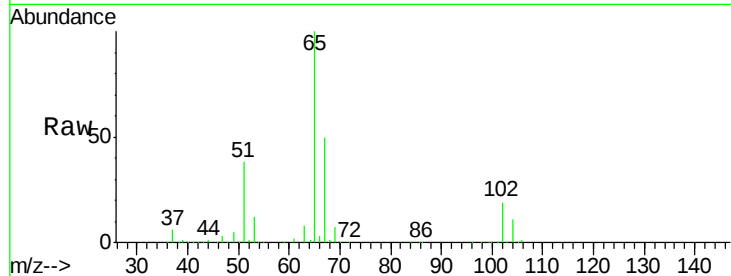
ClientSampleId :

Tot Ion: 65 Resp: 156810

Ion Ratio Lower Upper

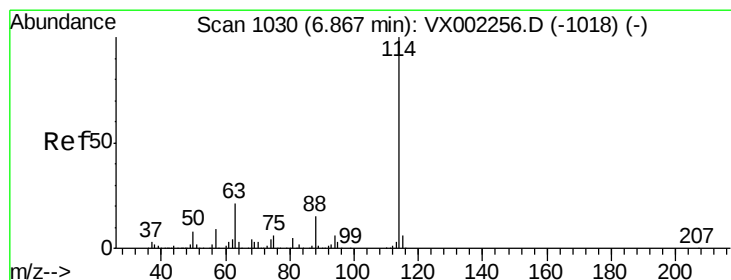
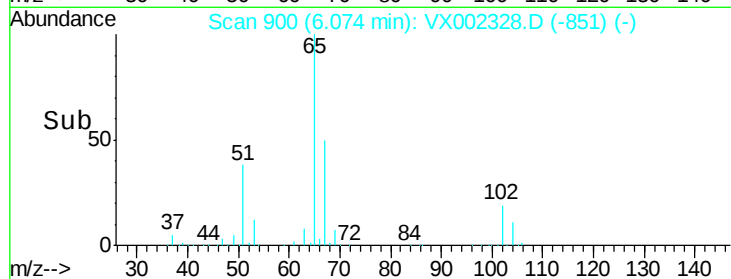
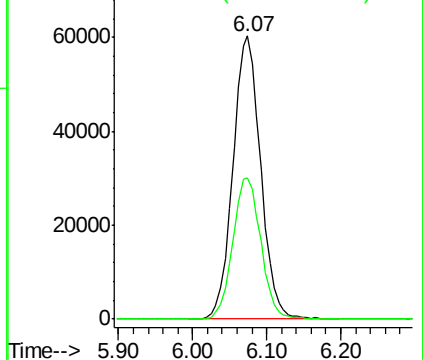
65 100

67 50.6 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: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002328.D

Acq: 06 Jun 2018 02:10

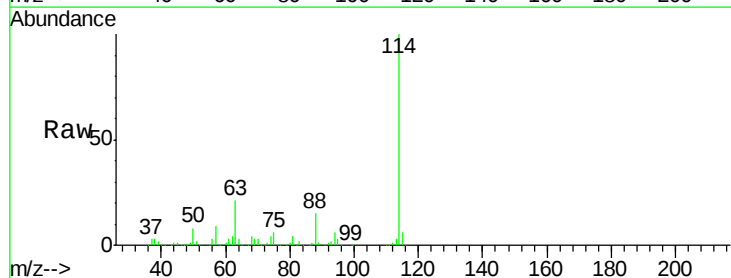
Tgt Ion: 114 Resp: 326674

Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.4

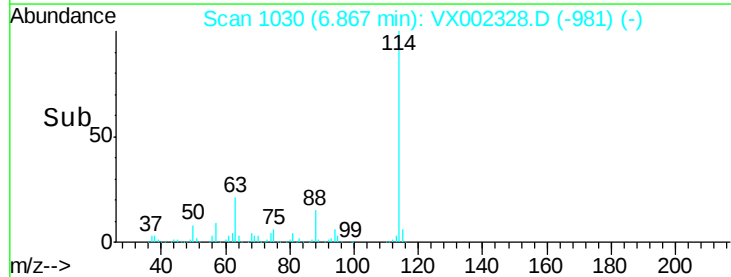
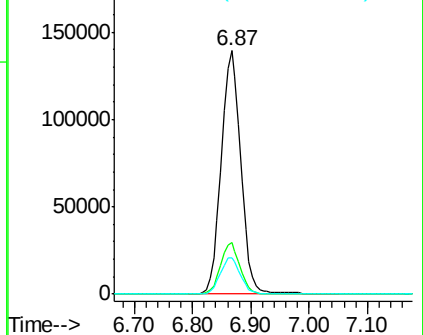
88 14.7 0.0 30.0

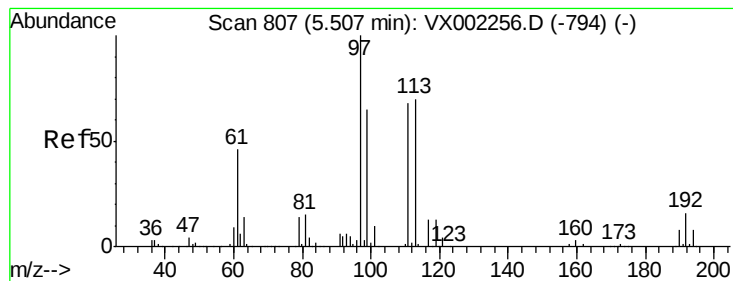


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 44.08 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002328.D

Acq: 06 Jun 2018 02:10

Instrument :
MSVOA_X
ClientSampled :

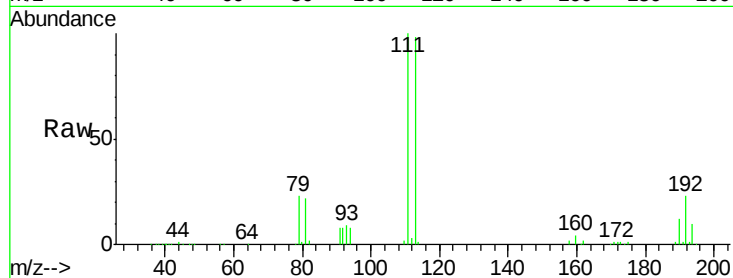
Tot Ion:113 Resp: 113249

Ion Ratio Lower Upper

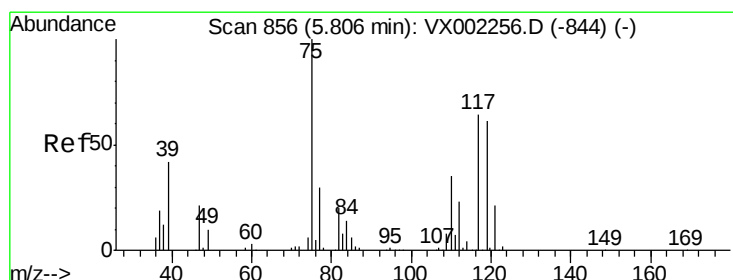
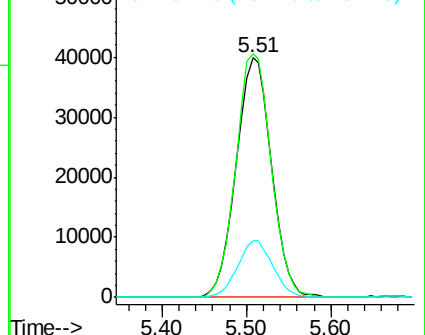
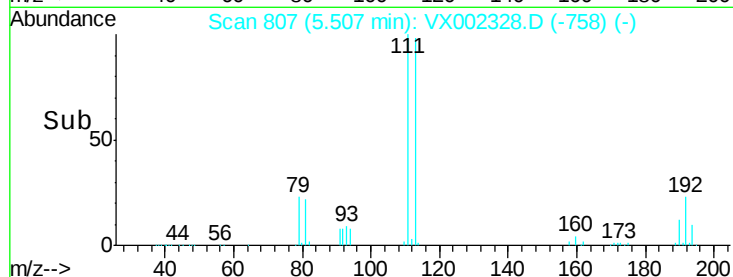
113 100

111 101.8 81.4 122.0

192 23.4 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: 4.79 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.15 min

Lab File: VX002328.D

Acq: 06 Jun 2018 02:10

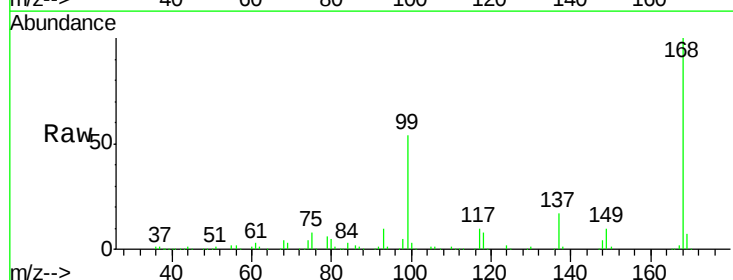
Tgt Ion: 75 Resp: 16460

Ion Ratio Lower Upper

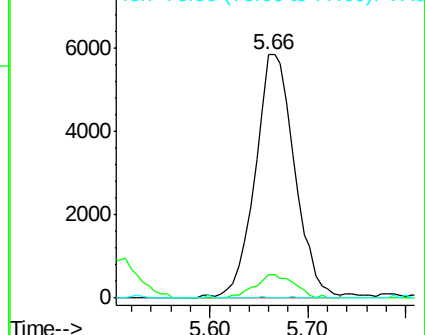
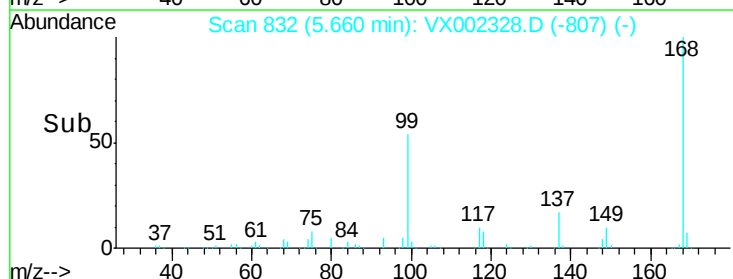
75 100

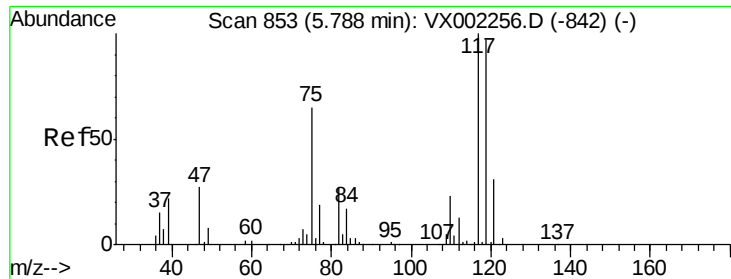
110 9.5 18.1 54.4#

77 0.1 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: 5.95 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002328.D

Acq: 06 Jun 2018 02:10

Instrument :

MSVOA_X

ClientSampleId :

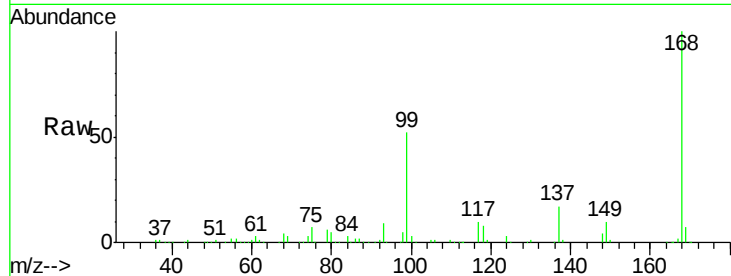
Tot Ion:117 Resp: 21388

Ion Ratio Lower Upper

117 100

119 5.3 77.4 116.0#

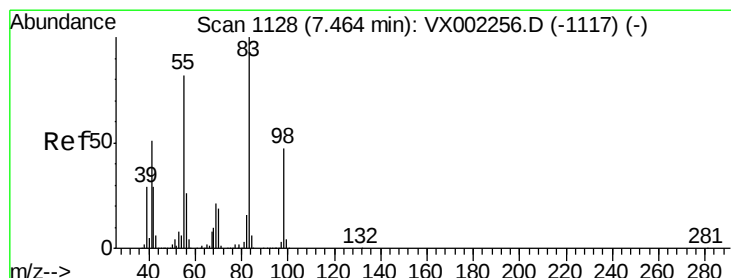
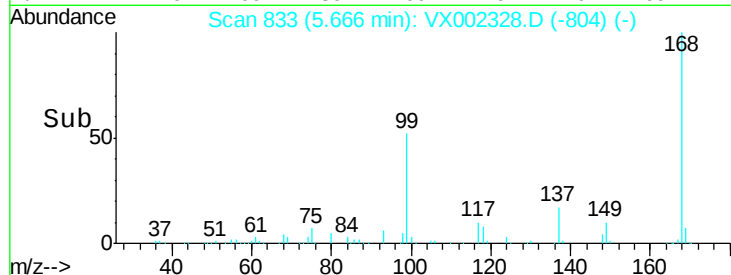
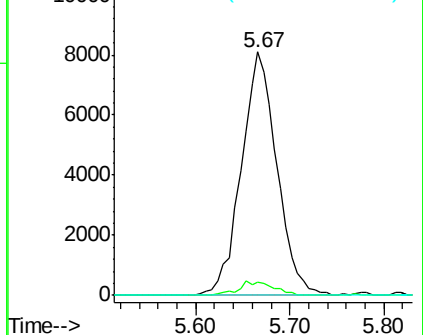
121 0.0 24.4 36.6#



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: 0.31 ug/l

RT: 7.48 min Scan# 1130

Delta R.T. 0.01 min

Lab File: VX002328.D

Acq: 06 Jun 2018 02:10

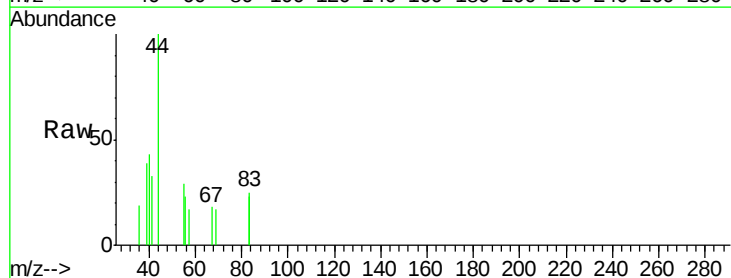
Tgt Ion: 83 Resp: 202

Ion Ratio Lower Upper

83 100

55 59.1 65.4 98.0#

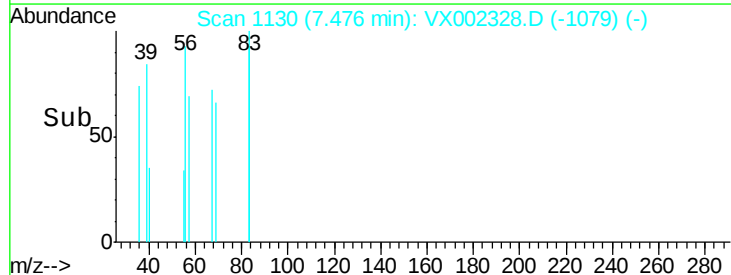
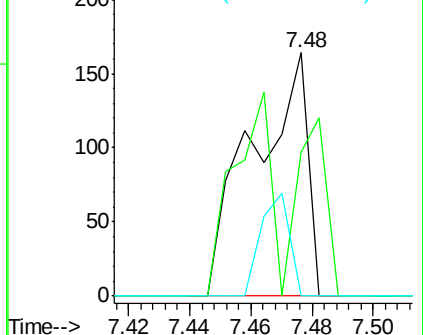
98 0.0 37.4 56.0#

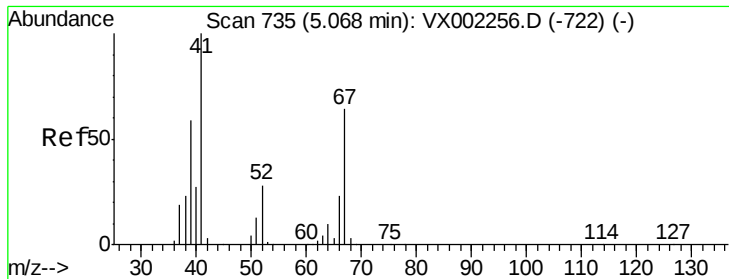


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

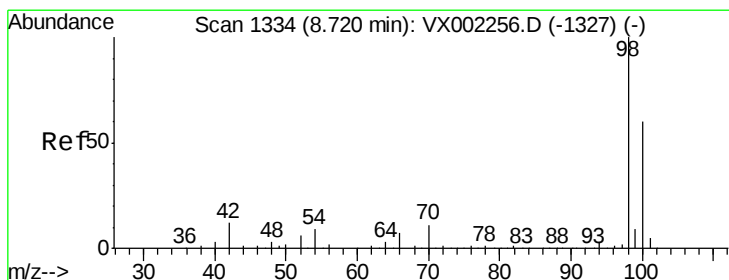
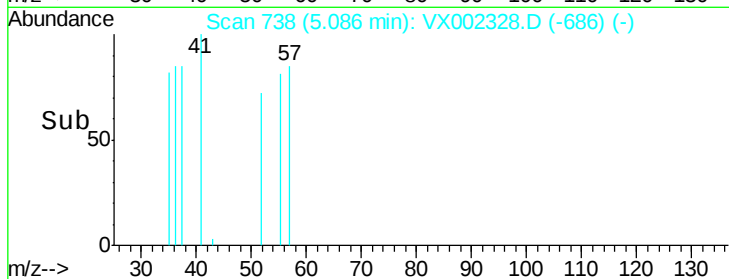
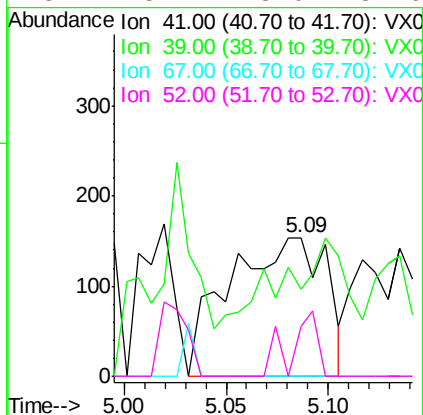
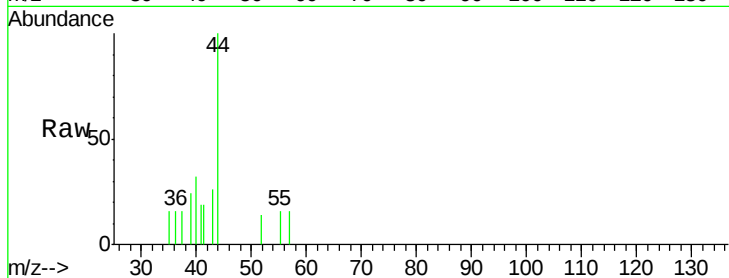




#41
Methacrylonitrile
Concen: 0.21 ug/l
RT: 5.09 min Scan# 738
Delta R.T. 0.02 min
Lab File: VX002328.D
Acq: 06 Jun 2018 02:10

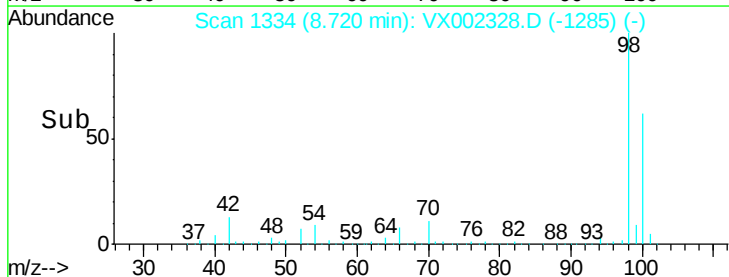
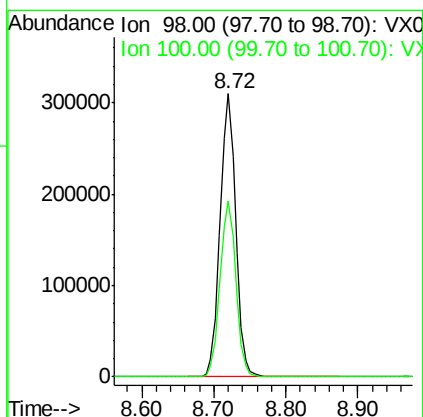
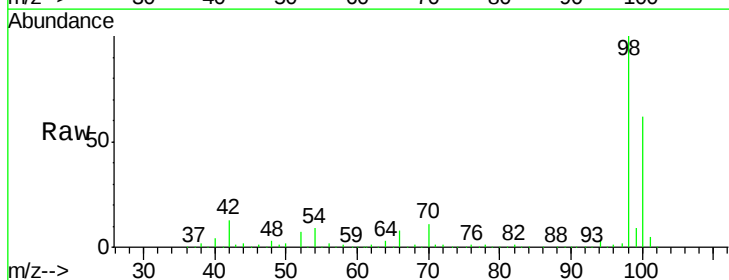
Instrument :
MSVOA_X
ClientSampled :

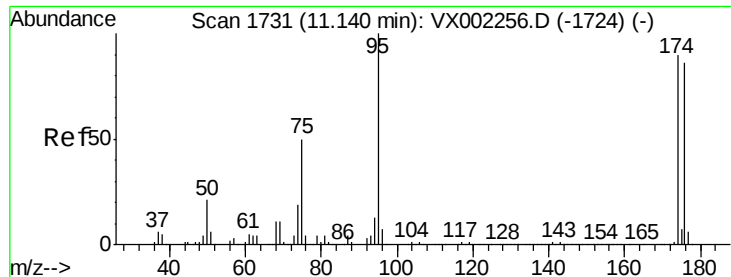
Tot Ion: 41 Resp: 507
Ion Ratio Lower Upper
41 100
39 28.2 45.8 68.6#
67 0.0 51.3 76.9#
52 13.4 23.0 34.6#



#50
Toluene-d8
Concen: 47.51 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002328.D
Acq: 06 Jun 2018 02:10

Tgt Ion: 98 Resp: 467861
Ion Ratio Lower Upper
98 100
100 63.1 50.9 76.3

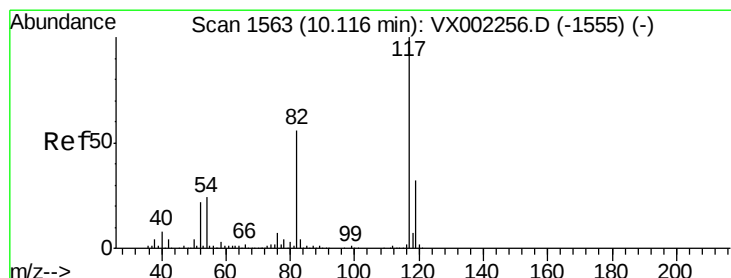
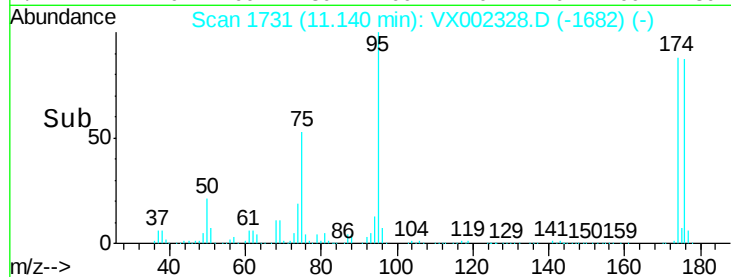
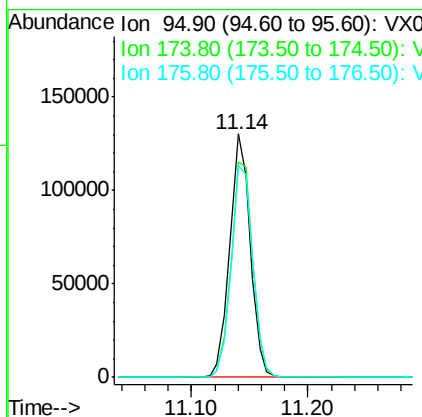
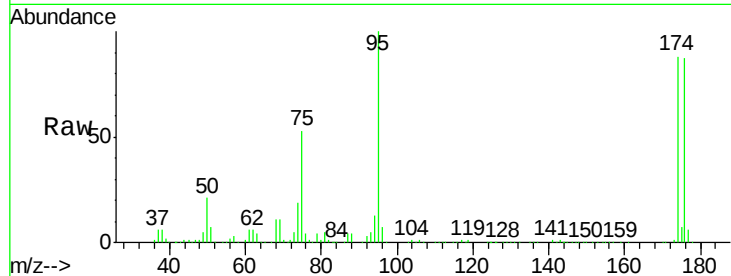




#62
4-Bromofluorobenzene
Concen: 42.26 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002328.D
Acq: 06 Jun 2018 02:10

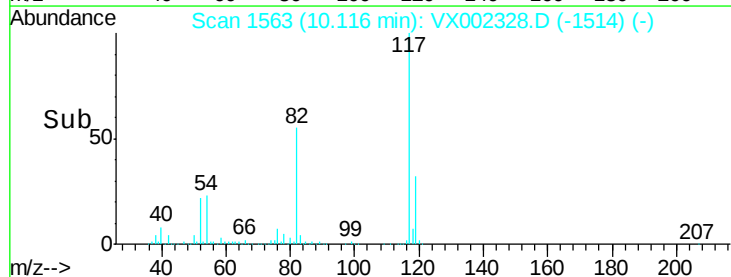
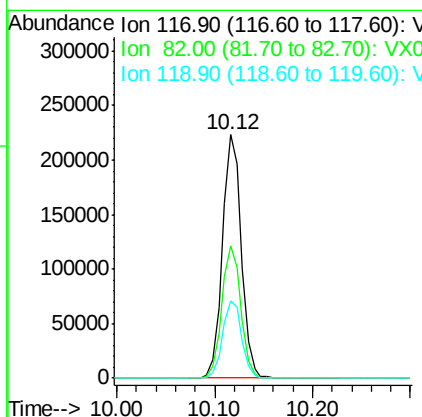
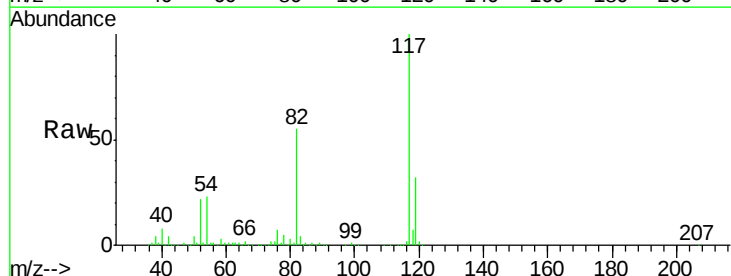
Instrument :
MSVOA_X
ClientSampleId :

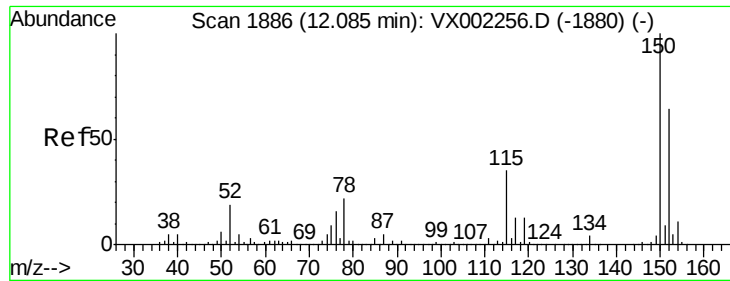
Tot Ion: 95 Resp: 160447
Ion Ratio Lower Upper
95 100
174 93.5 0.0 187.4
176 91.4 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002328.D
Acq: 06 Jun 2018 02:10

Tgt Ion: 117 Resp: 297211
Ion Ratio Lower Upper
117 100
82 54.6 45.0 67.4
119 31.9 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002328.D

Acq: 06 Jun 2018 02:10

Instrument :

MSVOA_X

ClientSampled :

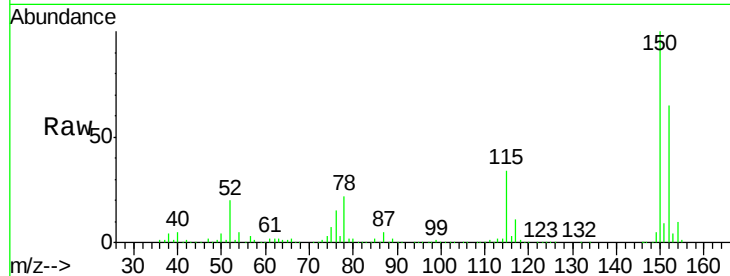
Tot Ion:152 Resp: 164628

Ion Ratio Lower Upper

152 100

115 55.3 40.1 120.2

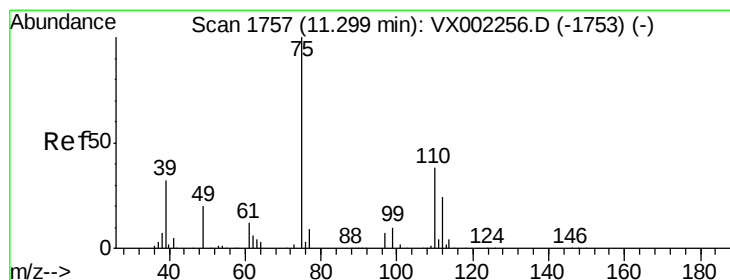
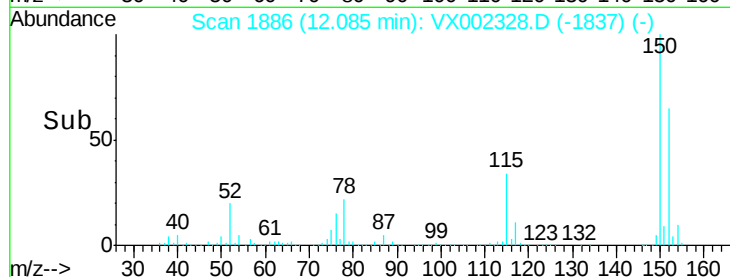
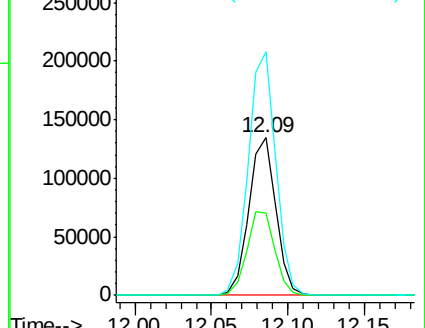
150 156.8 0.0 347.2



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: 24.01 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002328.D

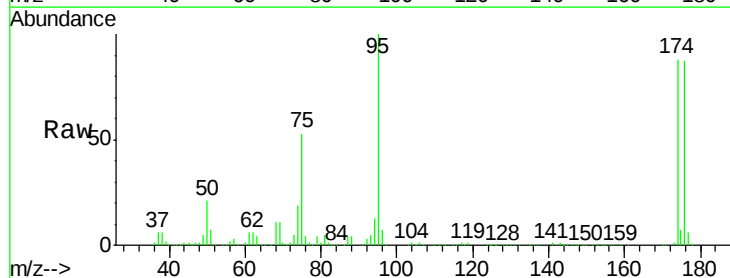
Acq: 06 Jun 2018 02:10

Tgt Ion: 75 Resp: 86736

Ion Ratio Lower Upper

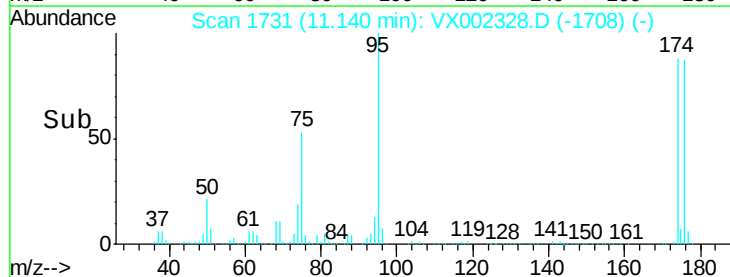
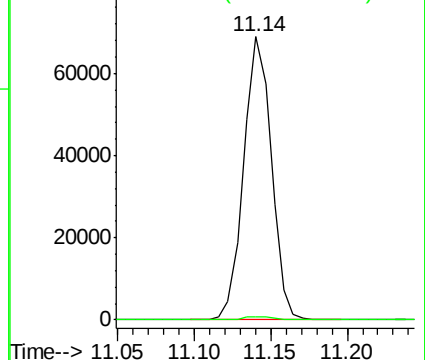
75 100

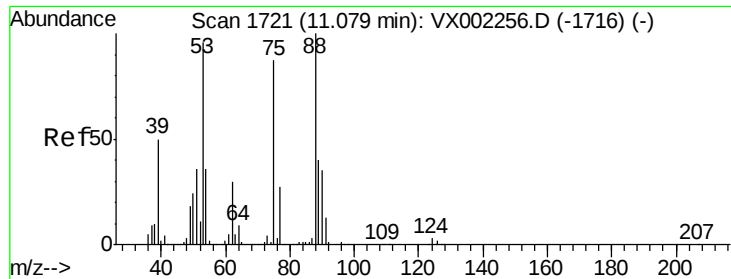
77 1.2 22.8 68.3#



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: 84.17 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

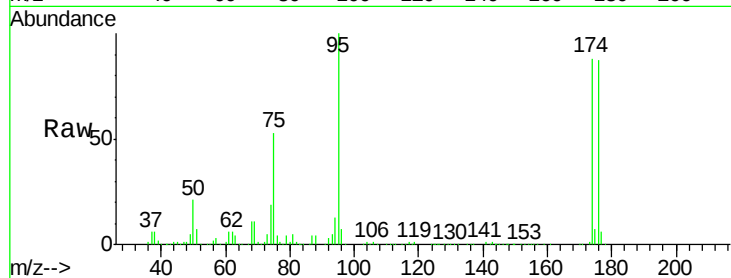
Lab File: VX002328.D

Acq: 06 Jun 2018 02:10

Instrument :

MSVOA_X

ClientSampleId :



Tot Ion: 75 Resp: 86736

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

