

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX032818\
 Data File : VX000488.D
 Acq On : 28 Mar 2018 15:00
 Operator : JC/MD
 Sample : J1754-18 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-032718-D

Quant Time: Mar 29 04:10:05 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 21 04:52:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	105899	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	192572	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	190317	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	99121	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	79311	57.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.74%	
35) Dibromofluoromethane	5.51	113	63648	52.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.92%	
50) Toluene-d8	8.73	98	243637	48.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.96%	
62) 4-Bromofluorobenzene	11.15	95	81636	39.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.74%	

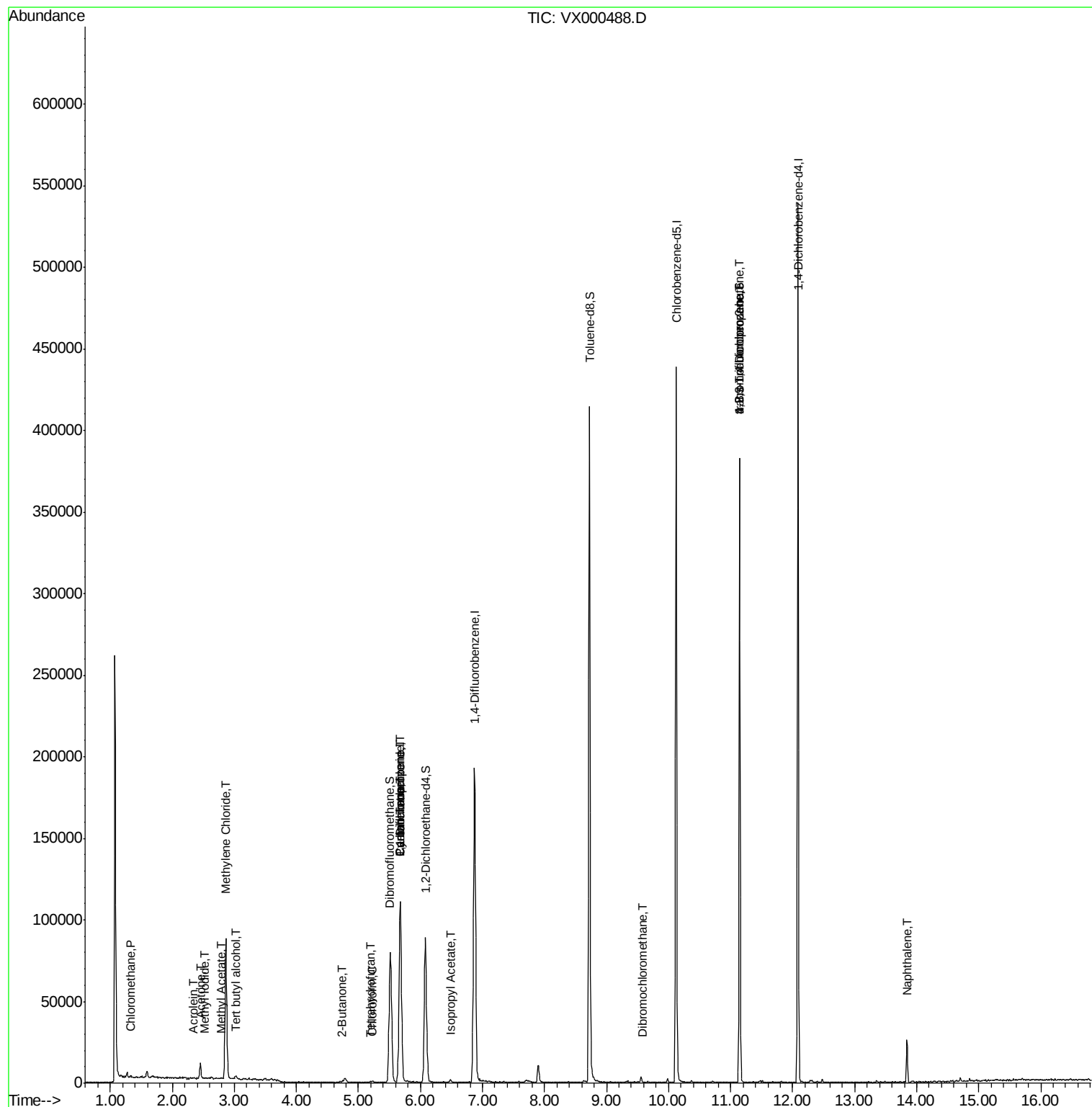
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	338	0.27	ug/l	91
6) Chloroethane	1.72	64	422	Below Cal	#	44
10) Methyl Iodide	2.51	142	57	4.32	ug/l	# 37
11) Tert butyl alcohol	3.03	59	1011	2.13	ug/l	# 77
13) Acrolein	2.35	56	19	14.70	ug/l	# 13
16) Acetone	2.45	43	9287	8.08	ug/l	97
18) Methyl Acetate	2.78	43	1261	0.52	ug/l	# 63
20) Methylene Chloride	2.87	84	38404	28.91	ug/l	98
25) 2-Butanone	4.73	43	1362	1.05	ug/l	# 76
29) Tetrahydrofuran	5.20	42	207	0.26	ug/l	# 51
30) Chloroform	5.22	83	575	0.27	ug/l	# 52
31) Cyclohexane	5.68	56	2784	1.60	ug/l	# 8
36) 1,1-Dichloropropene	5.67	75	8605	4.77	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	10390	5.49	ug/l	# 18
43) Isopropyl Acetate	6.48	43	2033	0.55	ug/l	# 82
60) Dibromochloromethane	9.59	129	37	4.14	ug/l	# 1
74) N-amyl acetate	6.48	43	2033	Below Cal	#	89
76) 1,2,3-Trichloropropane	11.15	75	48291	22.67	ug/l	# 35
81) trans-1,4-Dichloro-2-buten	11.15	75	48291	73.39	ug/l	# 9
95) Naphthalene	13.84	128	15408	1.90	ug/l	99

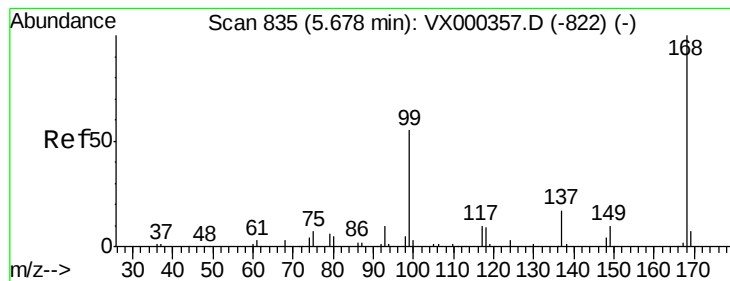
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.01 min

Lab File: VX000488.D

Acq: 28 Mar 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

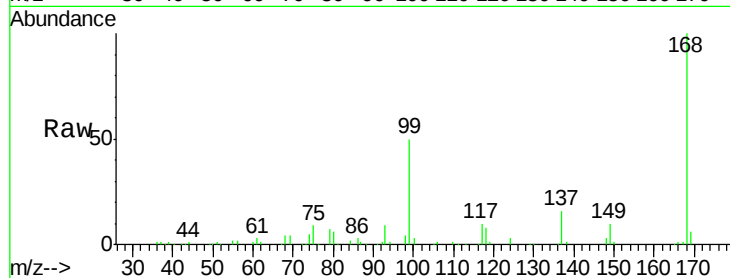
CL-02-032718-D

Tgt Ion: 168 Resp: 105899

Ion Ratio Lower Upper

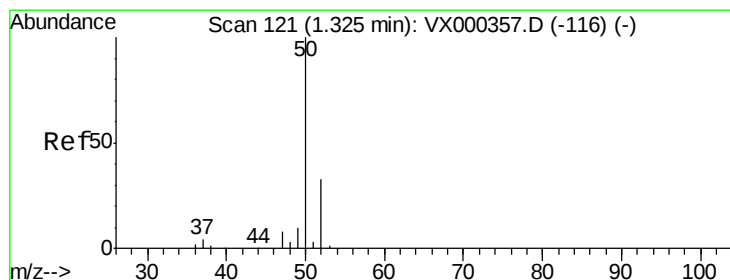
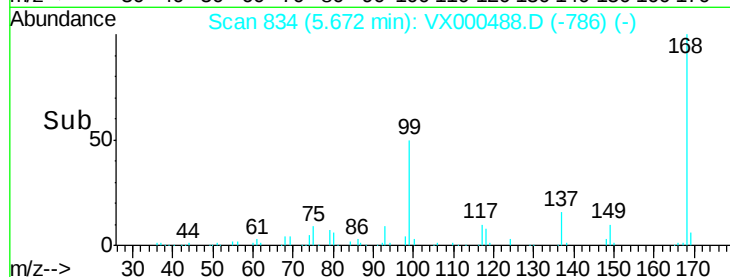
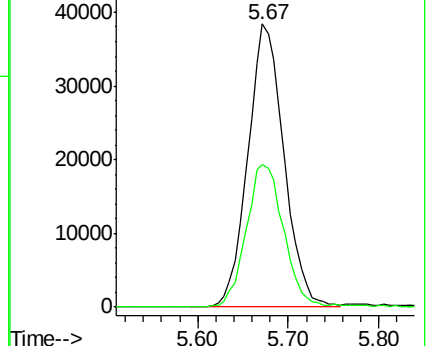
168 100

99 50.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.27 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX000488.D

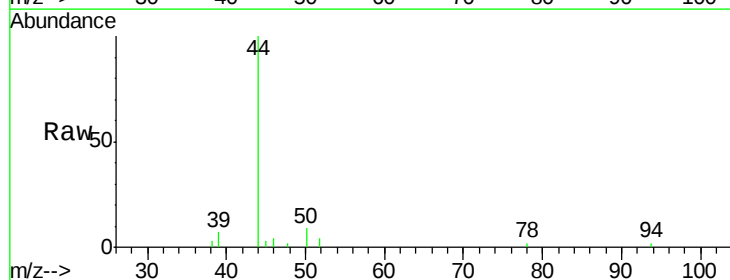
Acq: 28 Mar 2018 15:00

Tgt Ion: 50 Resp: 338

Ion Ratio Lower Upper

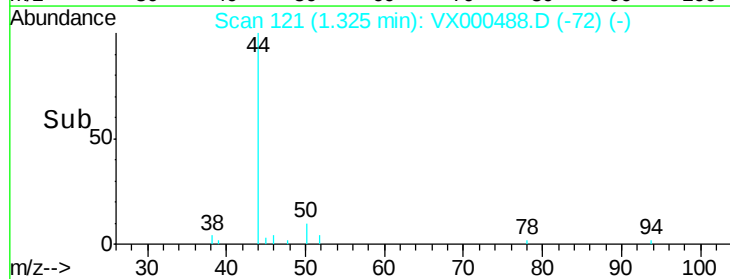
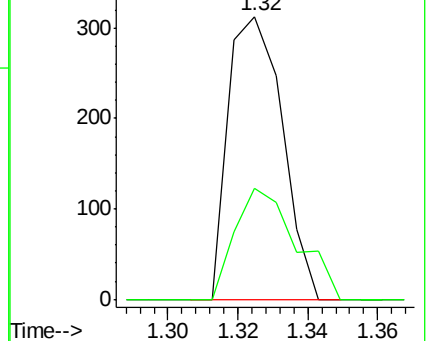
50 100

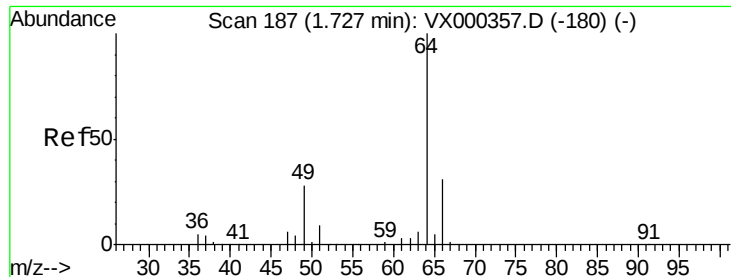
52 39.3 27.5 41.3



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX000488.D

Acq: 28 Mar 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

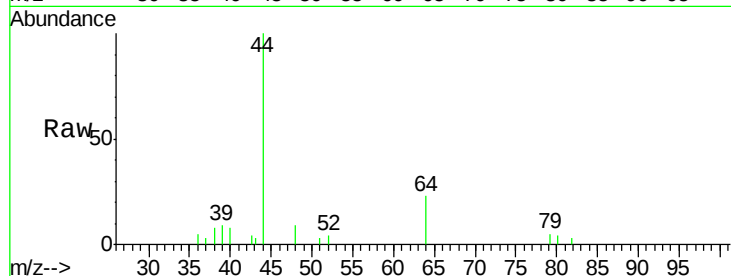
CL-02-032718-D

Tgt Ion: 64 Resp: 422

Ion Ratio Lower Upper

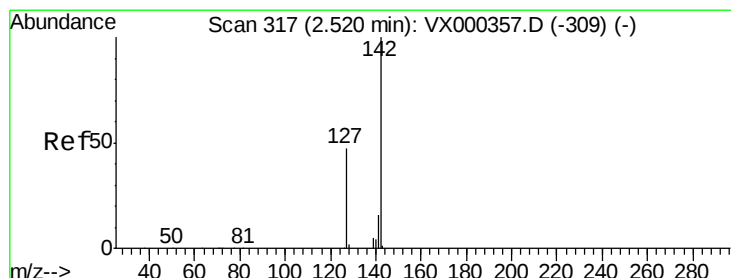
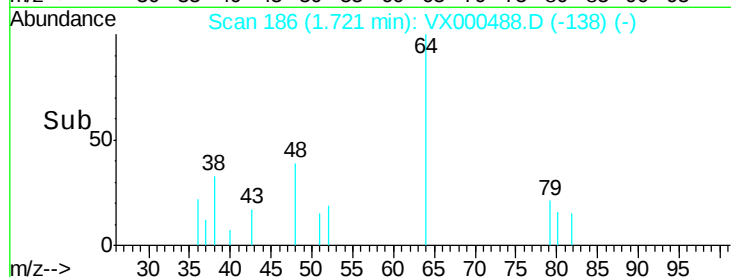
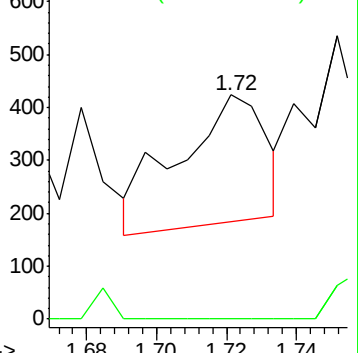
64 100

66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 4.32 ug/l

RT: 2.51 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX000488.D

Acq: 28 Mar 2018 15:00

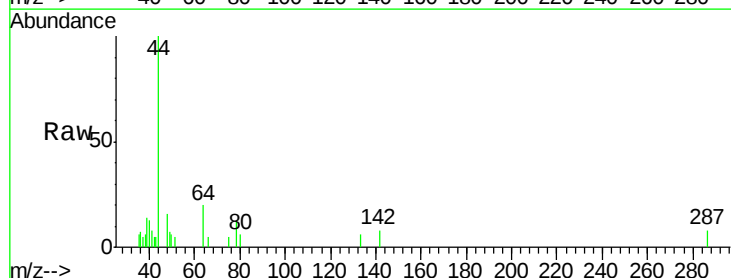
Tgt Ion: 142 Resp: 57

Ion Ratio Lower Upper

142 100

127 0.0 39.2 58.8#

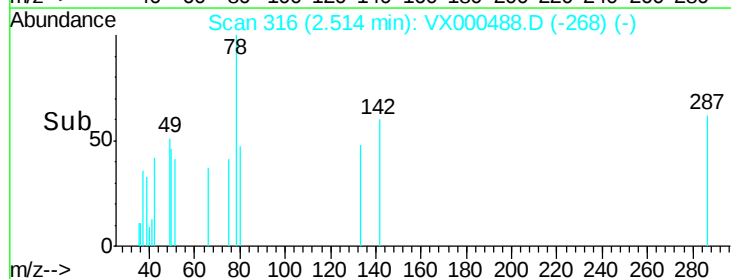
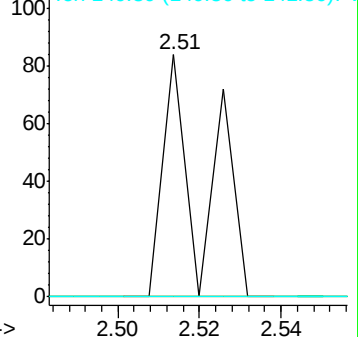
141 0.0 11.7 17.5#

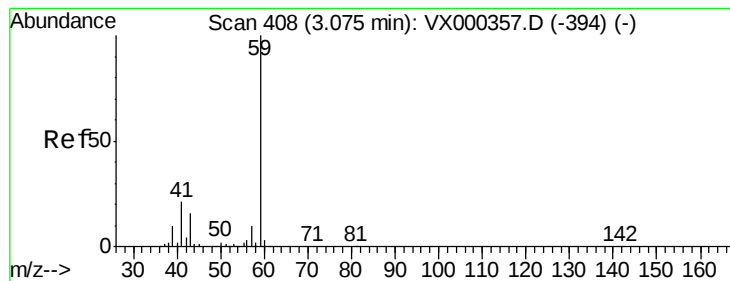


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



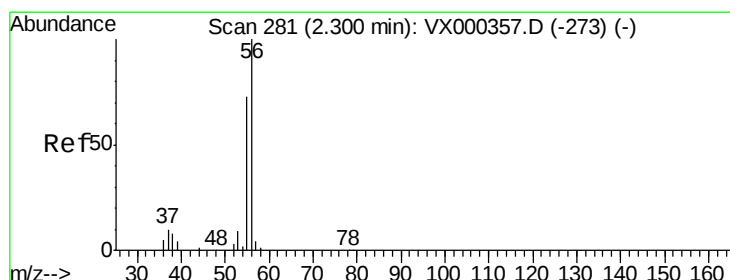
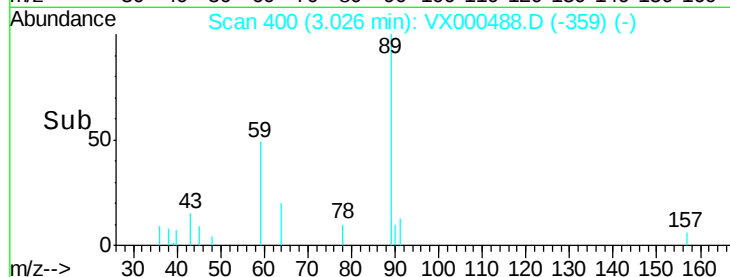
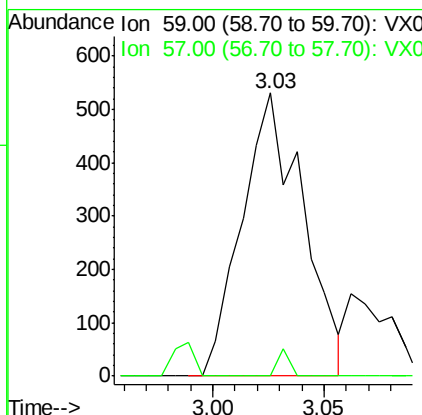
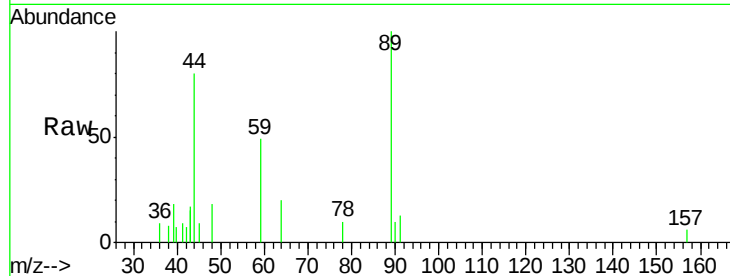


#11

Tert butyl alcohol
 Concen: 2.13 ug/l
 RT: 3.03 min Scan# 400
 Delta R.T. -0.05 min
 Lab File: VX000488.D
 Acq: 28 Mar 2018 15:00

Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-032718-D

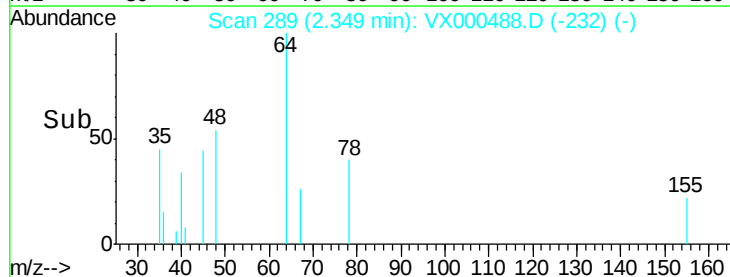
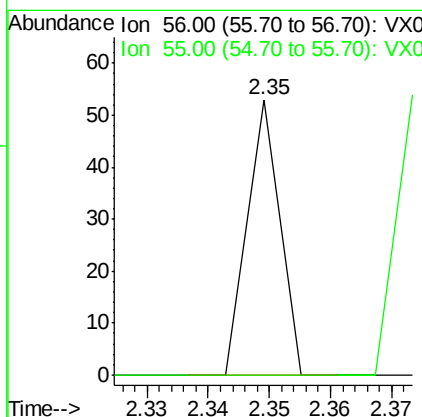
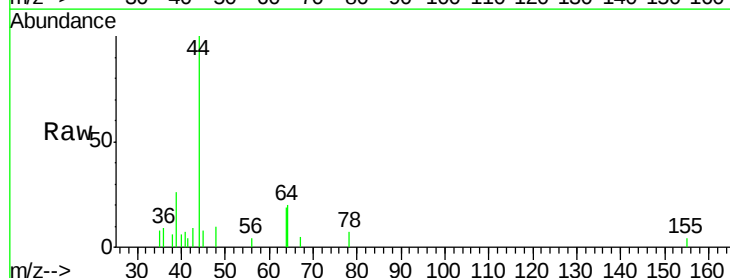
Tgt Ion: 59 Resp: 1011
 Ion Ratio Lower Upper
 59 100
 57 1.9 8.4 12.6#

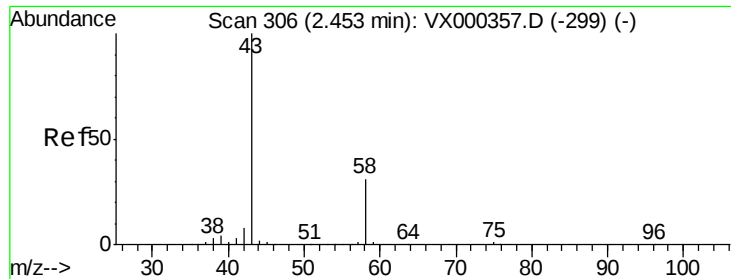


#13

Acrolein
 Concen: 14.70 ug/l
 RT: 2.35 min Scan# 289
 Delta R.T. 0.05 min
 Lab File: VX000488.D
 Acq: 28 Mar 2018 15:00

Tgt Ion: 56 Resp: 19
 Ion Ratio Lower Upper
 56 100
 55 0.0 58.8 88.2#





#16

Acetone

Concen: 8.08 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000488.D

Acq: 28 Mar 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

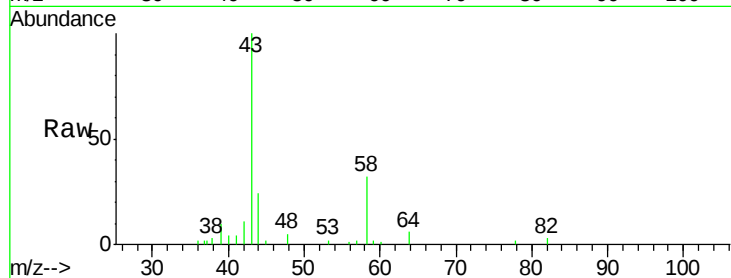
CL-02-032718-D

Tgt Ion: 43 Resp: 9287

Ion Ratio Lower Upper

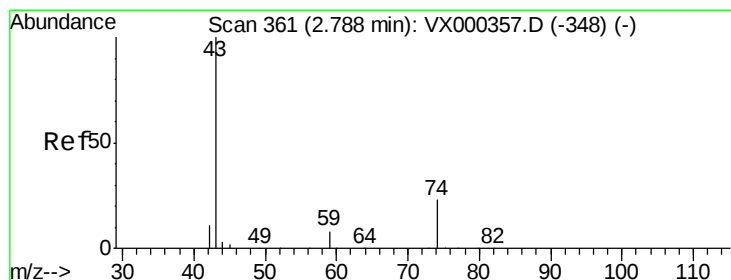
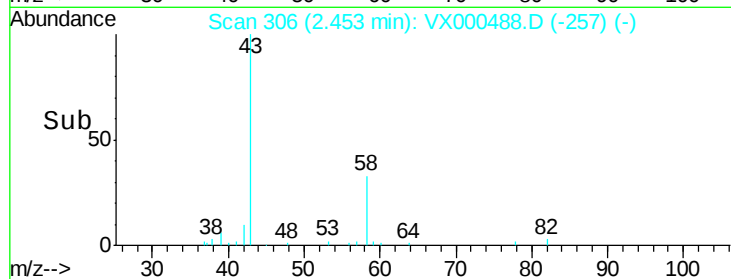
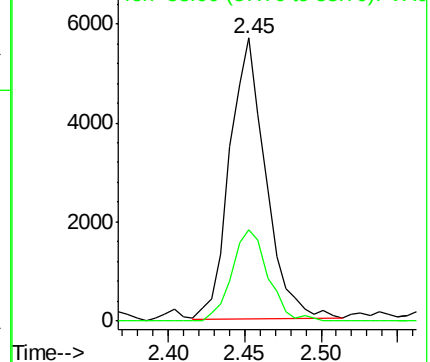
43 100

58 32.5 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.52 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.01 min

Lab File: VX000488.D

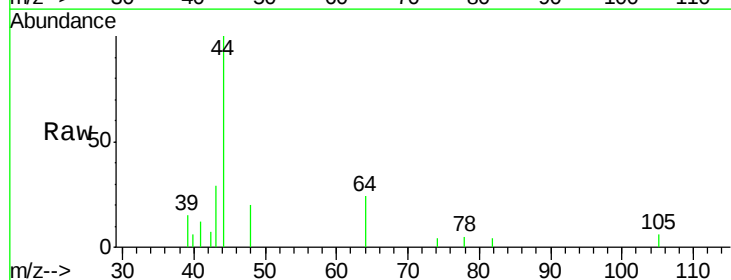
Acq: 28 Mar 2018 15:00

Tgt Ion: 43 Resp: 1261

Ion Ratio Lower Upper

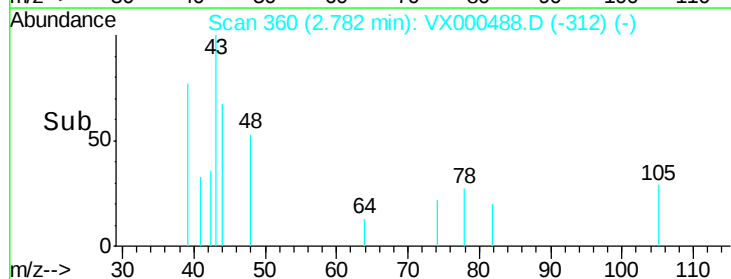
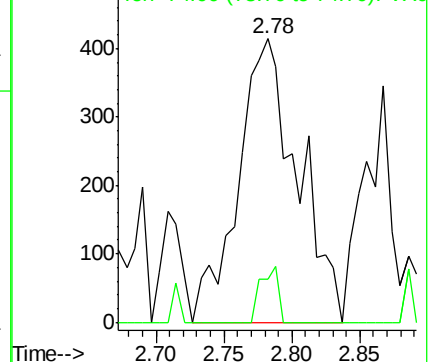
43 100

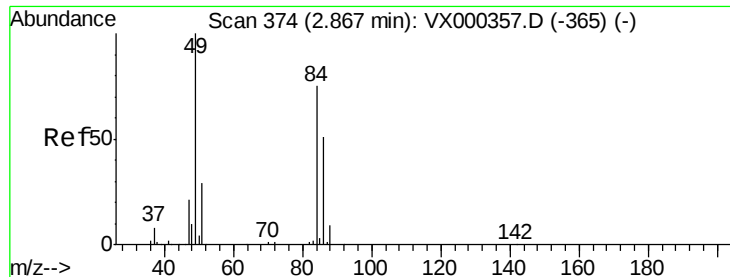
74 5.9 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methylene Chloride

Concen: 28.91 ug/l

RT: 2.87 min Scan# 374

Delta R.T. -0.00 min

Lab File: VX000488.D

Acq: 28 Mar 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

CL-02-032718-D

Tgt Ion: 84 Resp: 38404

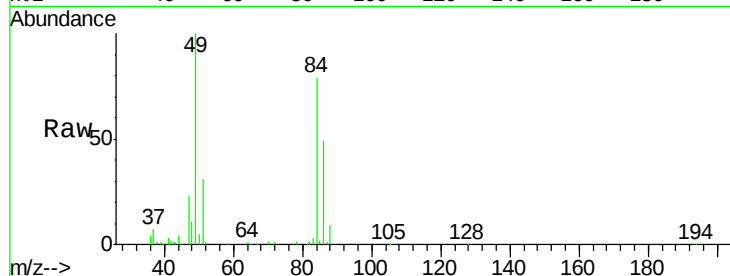
Ion Ratio Lower Upper

84 100

49 126.5 100.6 151.0

51 38.7 31.6 47.4

86 62.1 52.6 78.8

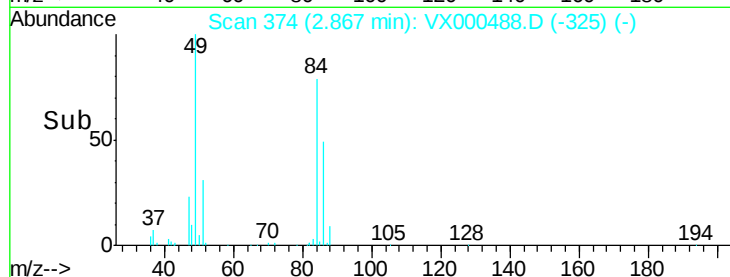
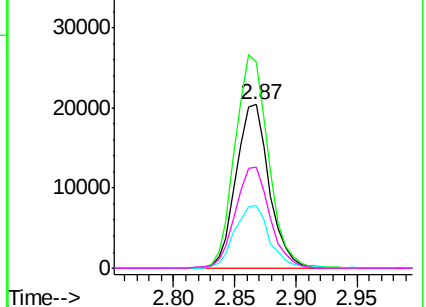


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.05 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.02 min

Lab File: VX000488.D

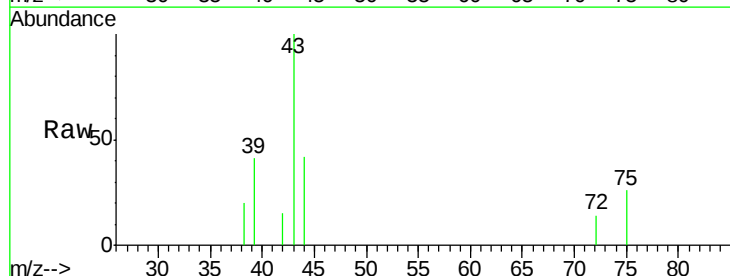
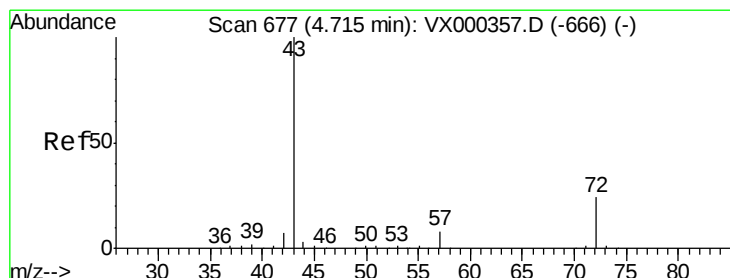
Acq: 28 Mar 2018 15:00

Tgt Ion: 43 Resp: 1362

Ion Ratio Lower Upper

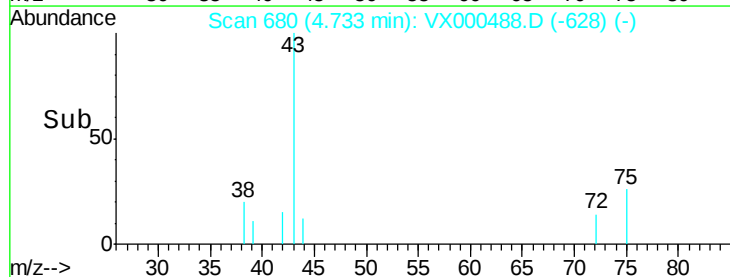
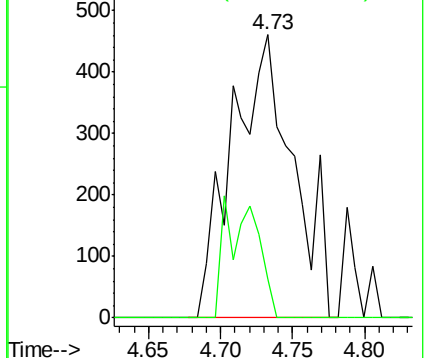
43 100

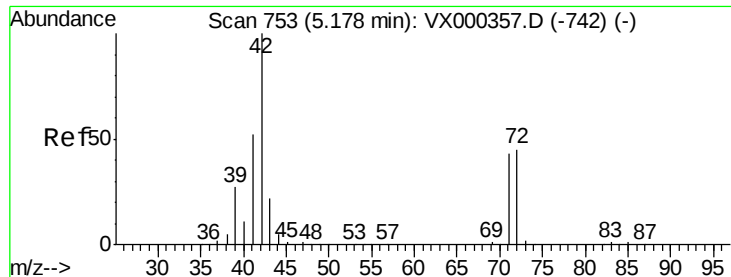
72 13.9 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.26 ug/l

RT: 5.20 min Scan# 756

Delta R.T. 0.02 min

Lab File: VX000488.D

Acq: 28 Mar 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

CL-02-032718-D

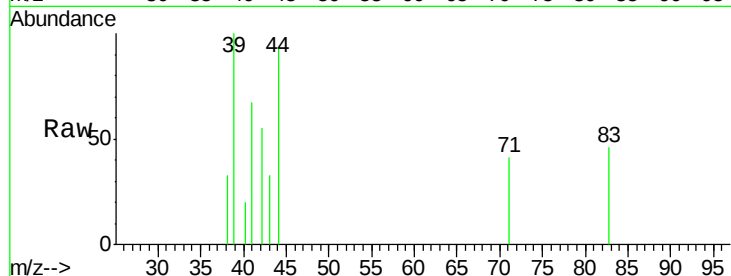
Tgt Ion: 42 Resp: 207

Ion Ratio Lower Upper

42 100

72 0.0 37.9 56.9#

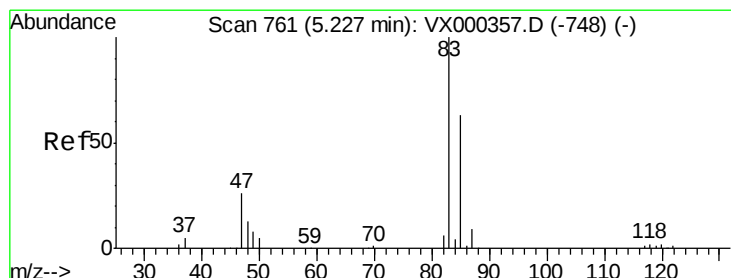
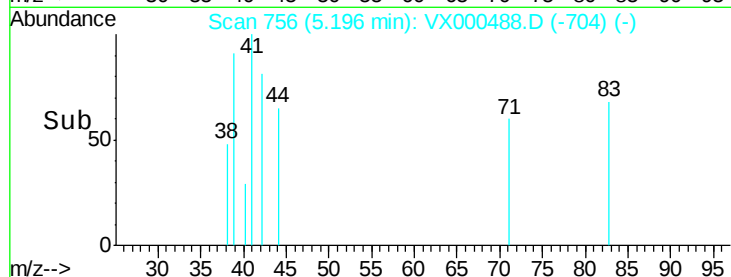
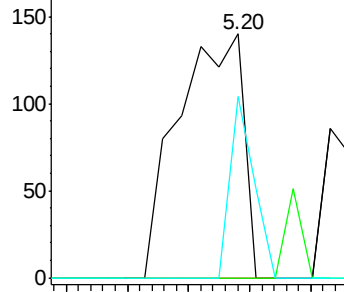
71 27.5 34.4 51.6#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#30

Chloroform

Concen: 0.27 ug/l

RT: 5.22 min Scan# 760

Delta R.T. -0.01 min

Lab File: VX000488.D

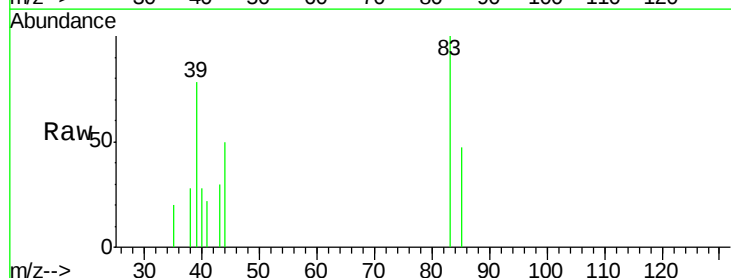
Acq: 28 Mar 2018 15:00

Tgt Ion: 83 Resp: 575

Ion Ratio Lower Upper

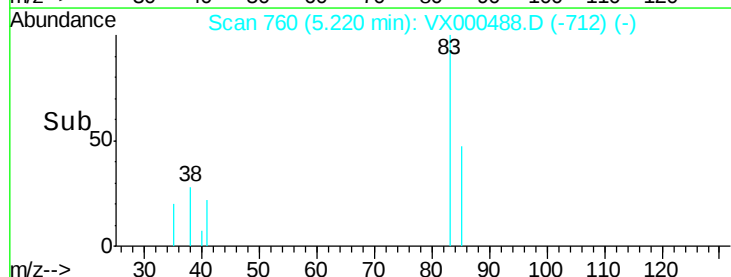
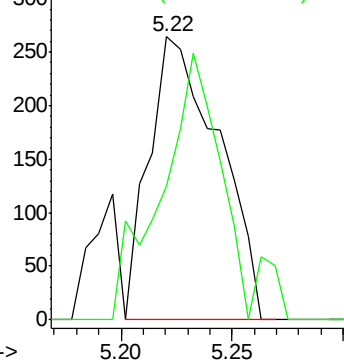
83 100

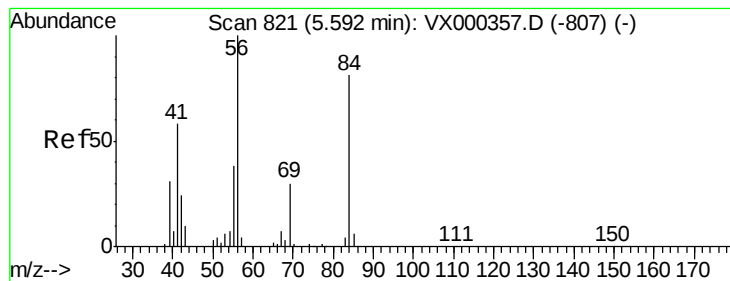
85 28.0 53.3 79.9#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.60 ug/l

RT: 5.68 min Scan# 835

Delta R.T. 0.09 min

Lab File: VX000488.D

Acq: 28 Mar 2018 15:00

Instrument :

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CL-02-032718-D

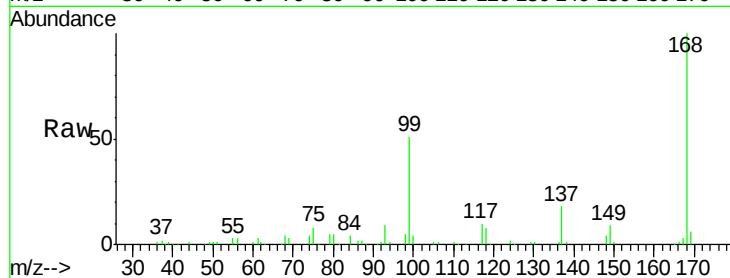
Tgt Ion: 56 Resp: 2784

Ion Ratio Lower Upper

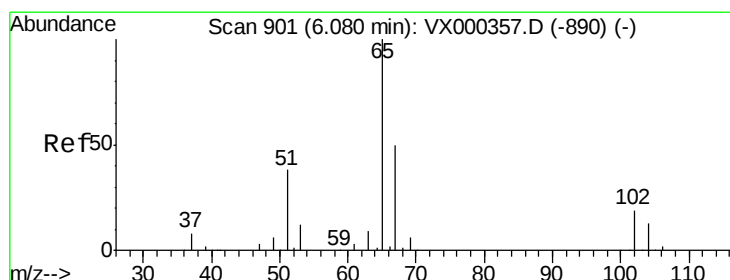
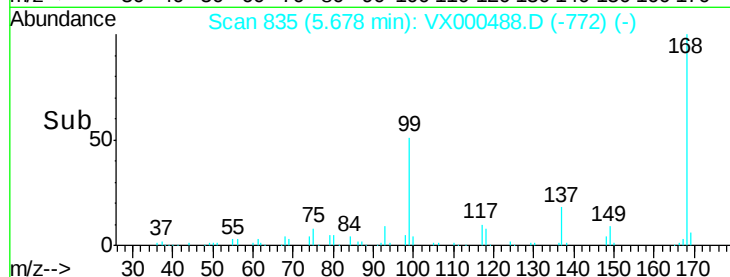
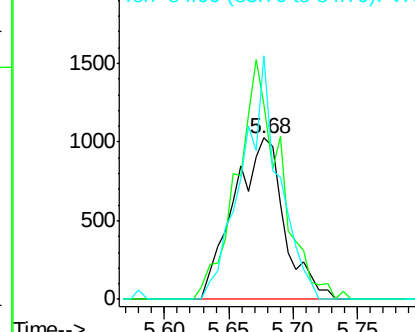
56 100

69 120.6 23.4 35.0#

84 150.9 71.0 106.4#



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: 57.37 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.00 min

Lab File: VX000488.D

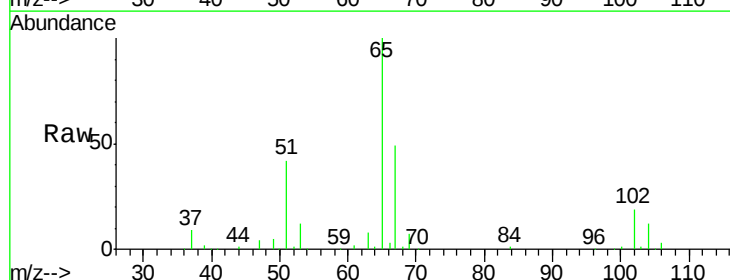
Acq: 28 Mar 2018 15:00

Tgt Ion: 65 Resp: 79311

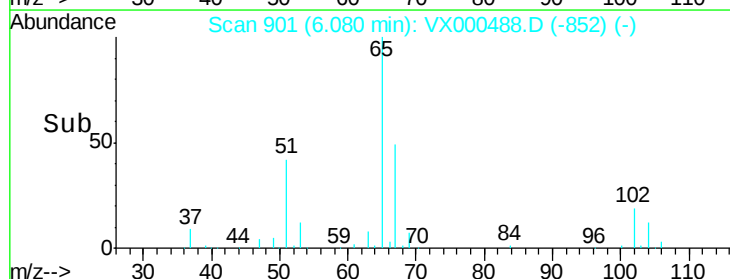
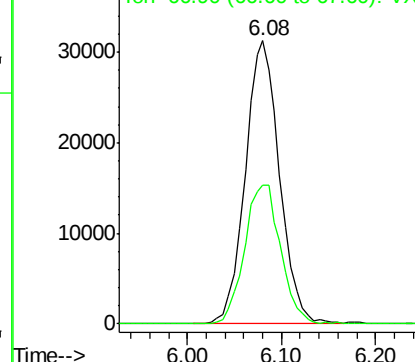
Ion Ratio Lower Upper

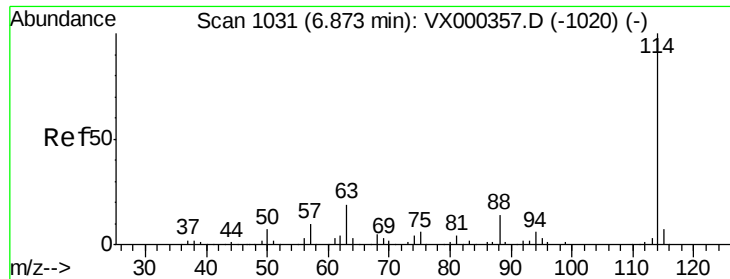
65 100

67 51.7 0.0 103.2



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

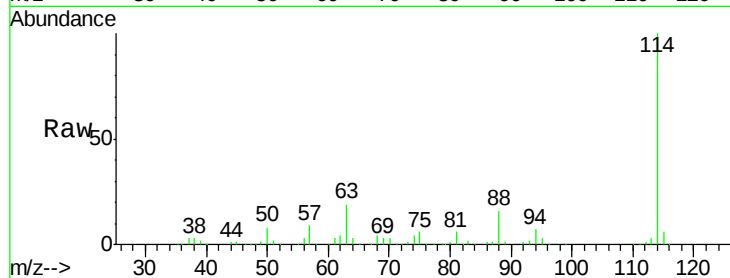




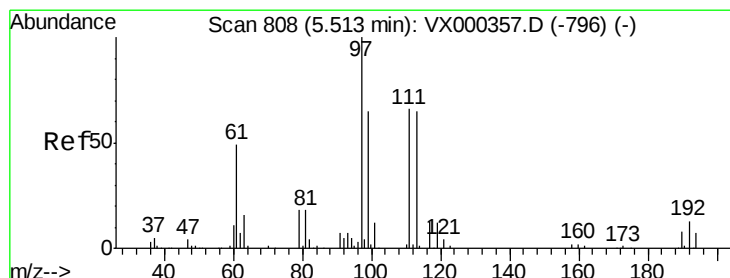
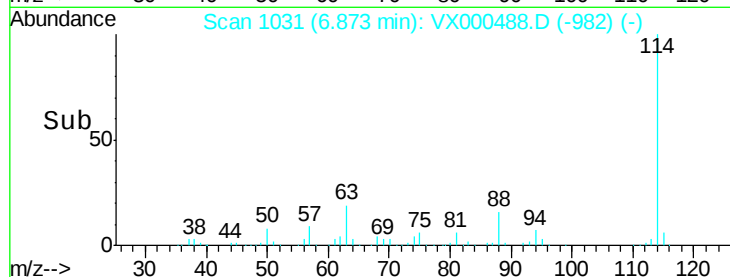
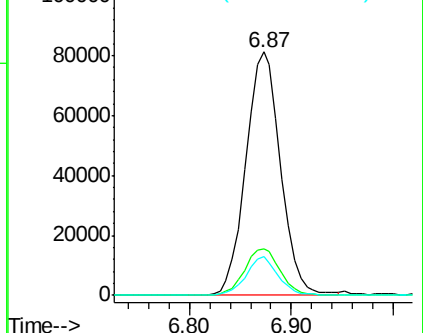
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.87 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VX000488.D
Acq: 28 Mar 2018 15:00

Instrument :
MSVOA_X
ClientSampleId :
CL-02-032718-D

Tgt Ion:114 Resp: 192572
Ion Ratio Lower Upper
114 100
63 19.2 0.0 38.4
88 15.9 0.0 27.0

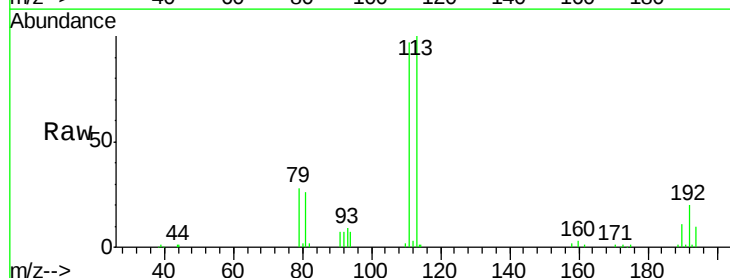


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX
Ion 87.90 (87.60 to 88.60): VX

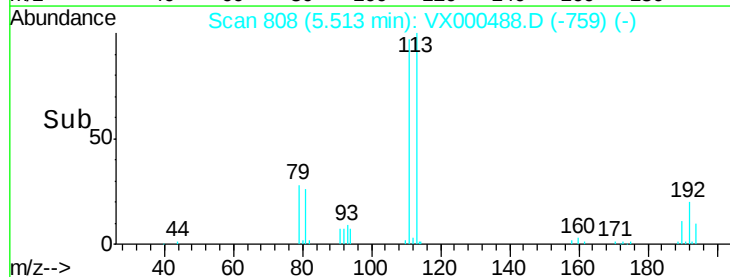
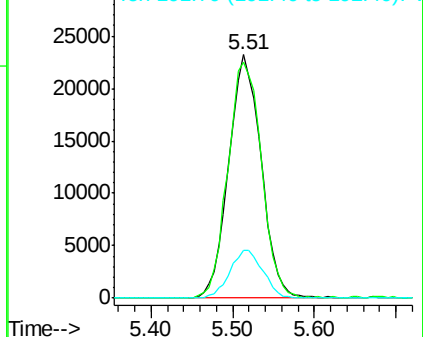


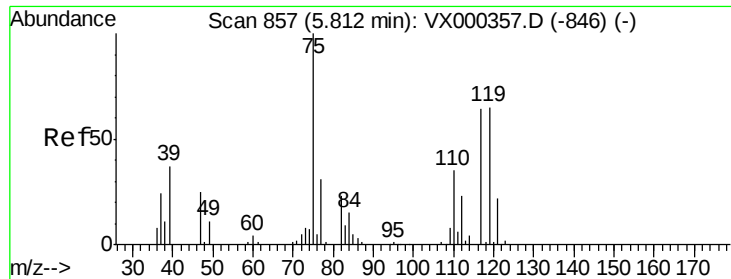
#35
Dibromofluoromethane
Concen: 52.46 ug/l
RT: 5.51 min Scan# 808
Delta R.T. -0.00 min
Lab File: VX000488.D
Acq: 28 Mar 2018 15:00

Tgt Ion:113 Resp: 63648
Ion Ratio Lower Upper
113 100
111 100.7 82.4 123.6
192 20.1 15.8 23.6



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

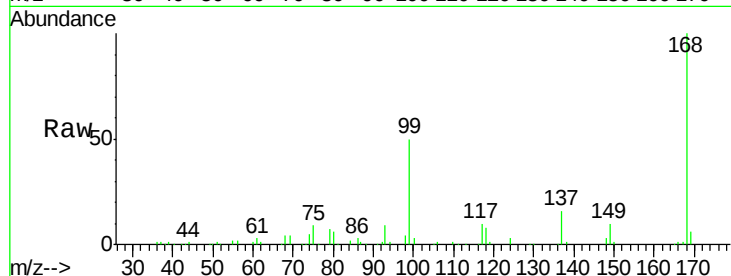




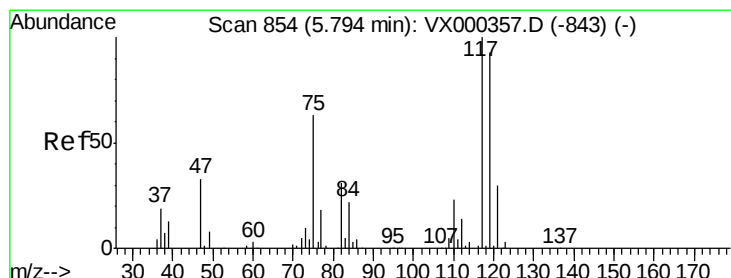
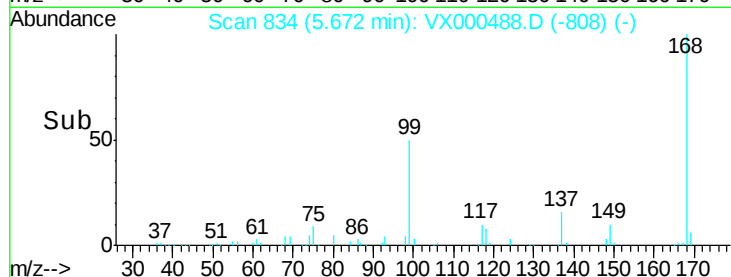
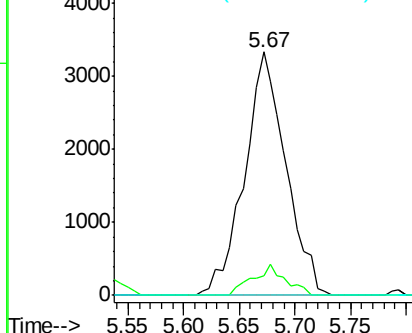
#36
 1,1-Dichloropropene
 Concen: 4.77 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.14 min
 Lab File: VX000488.D
 Acq: 28 Mar 2018 15:00

Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-032718-D

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.9	17.9	53.7#
77	0.0	24.0	36.0#

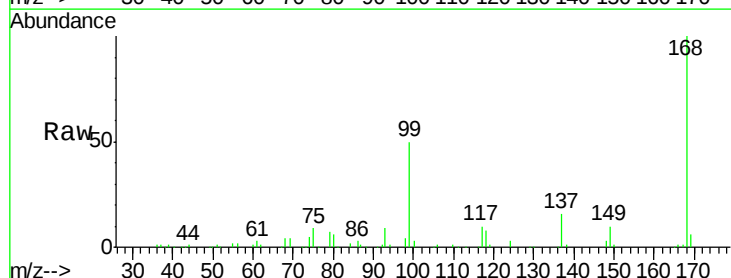


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

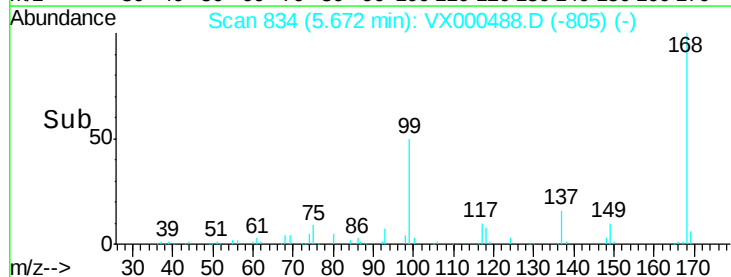
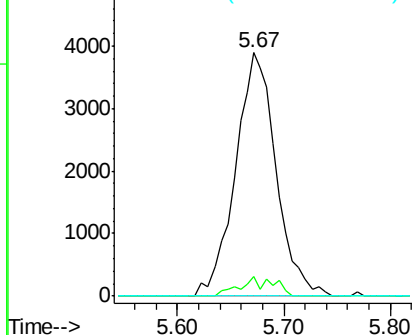


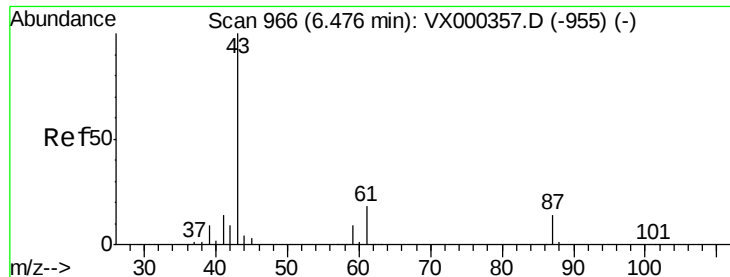
#38
 Carbon Tetrachloride
 Concen: 5.49 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX000488.D
 Acq: 28 Mar 2018 15:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	8.1	77.4	116.2#
121	0.0	24.8	37.2#



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





#43

Isopropyl Acetate

Concen: 0.55 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000488.D

Acq: 28 Mar 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

CL-02-032718-D

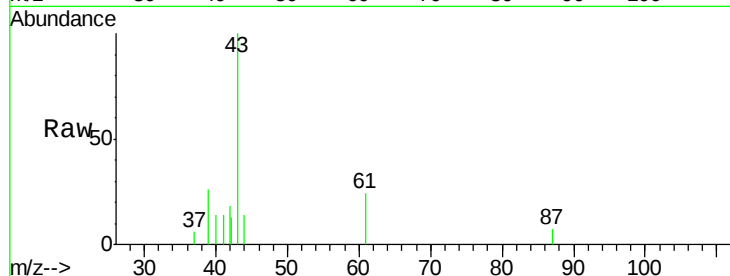
Tgt Ion: 43 Resp: 2033

Ion Ratio Lower Upper

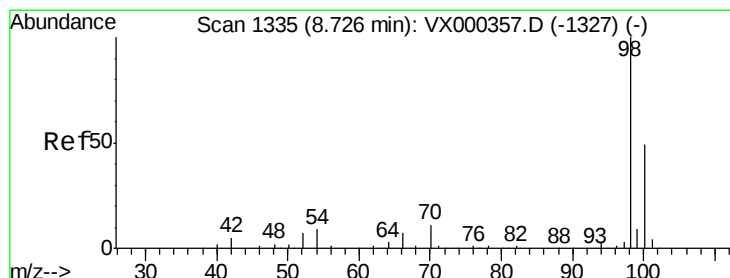
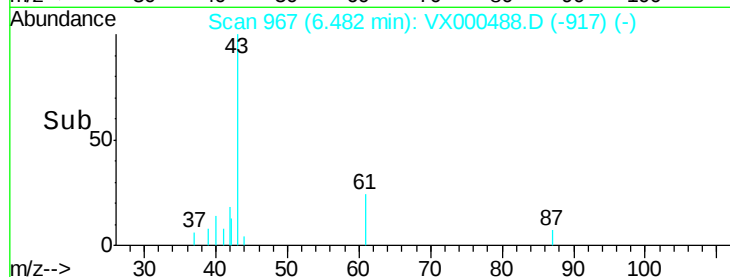
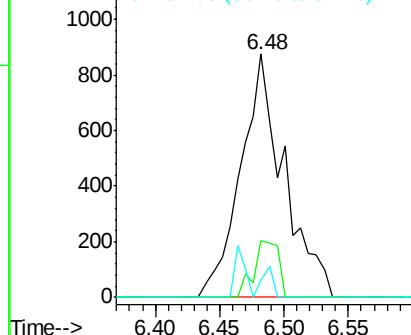
43 100

61 13.0 14.4 21.6#

87 3.1 11.0 16.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#50

Toluene-d8

Concen: 48.48 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000488.D

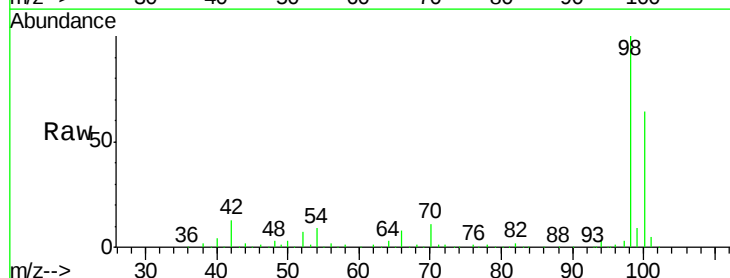
Acq: 28 Mar 2018 15:00

Tgt Ion: 98 Resp: 243637

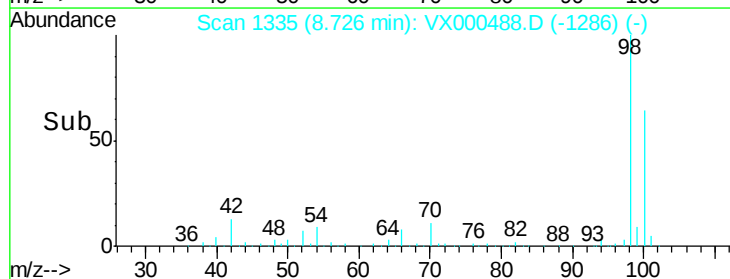
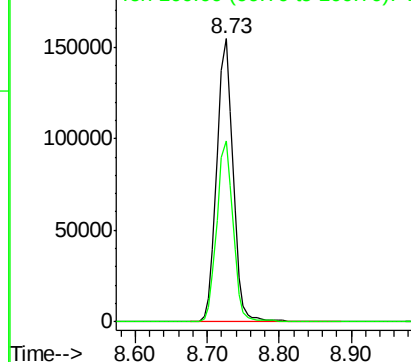
Ion Ratio Lower Upper

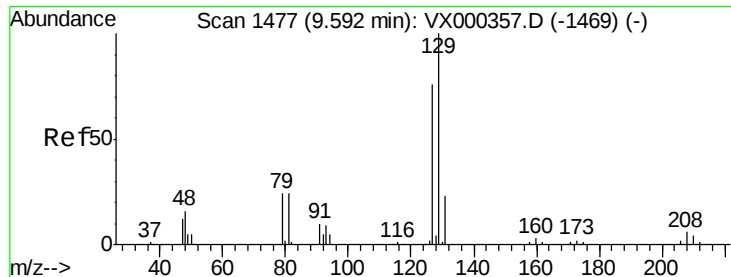
98 100

100 64.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 4.14 ug/l

RT: 9.59 min Scan# 1476

Delta R.T. -0.01 min

Lab File: VX000488.D

Acq: 28 Mar 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

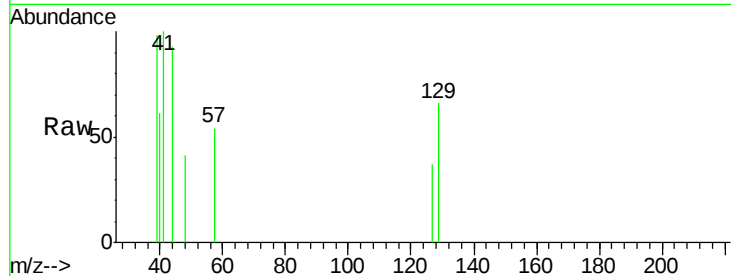
CL-02-032718-D

Tgt Ion:129 Resp: 37

Ion Ratio Lower Upper

129 100

127 164.9 37.9 113.6#

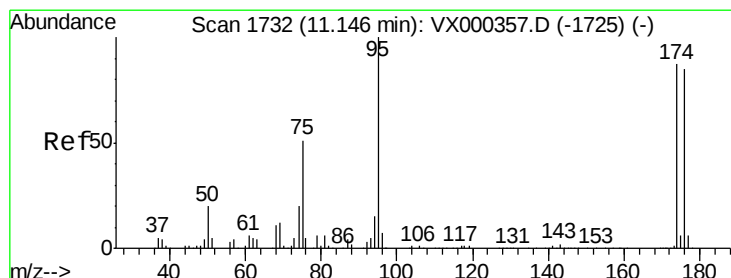
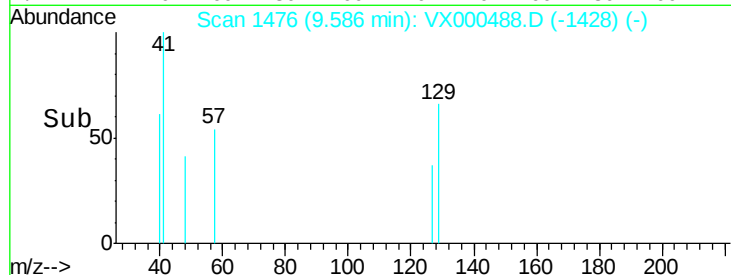


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.59

Time-->



#62

4-Bromofluorobenzene

Concen: 39.87 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000488.D

Acq: 28 Mar 2018 15:00

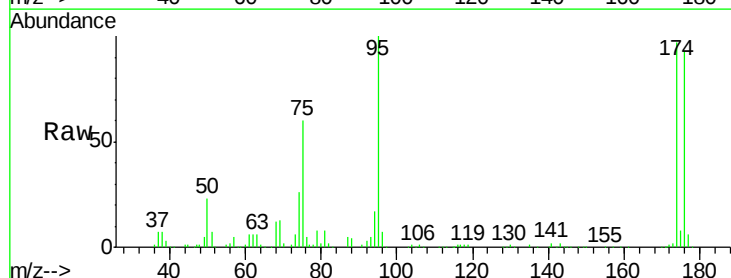
Tgt Ion: 95 Resp: 81636

Ion Ratio Lower Upper

95 100

174 94.5 0.0 173.6

176 90.4 0.0 164.6



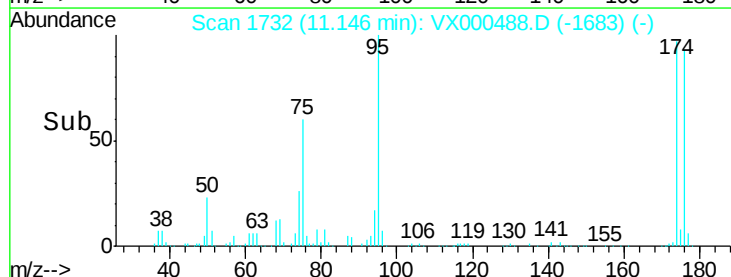
Abundance Ion 94.90 (94.60 to 95.60): VX0

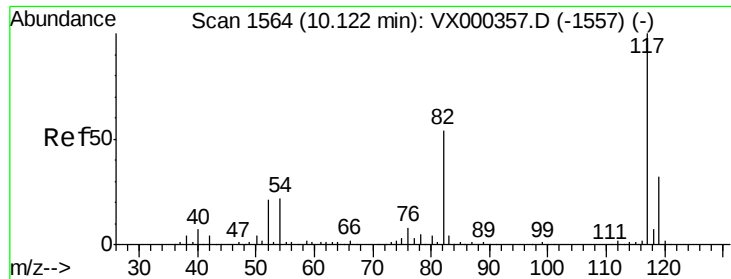
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.15

Time-->

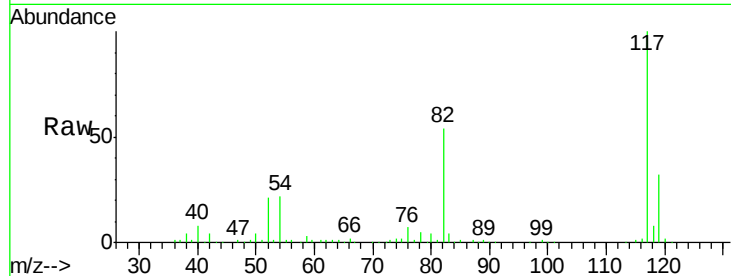




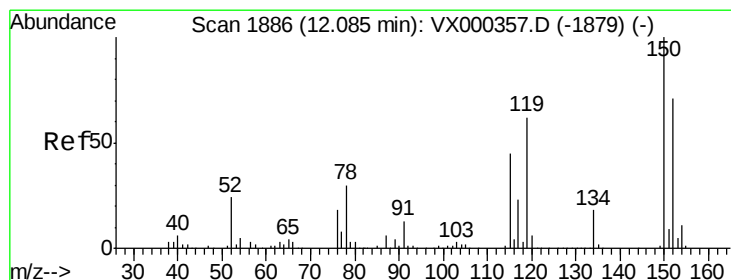
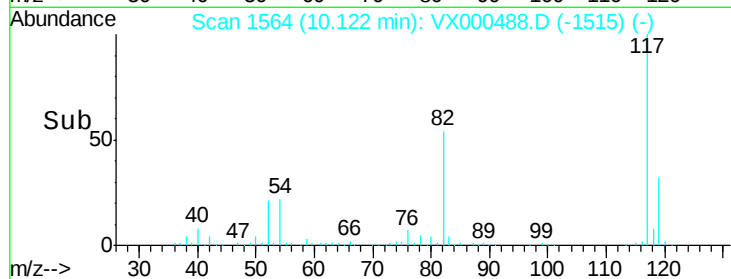
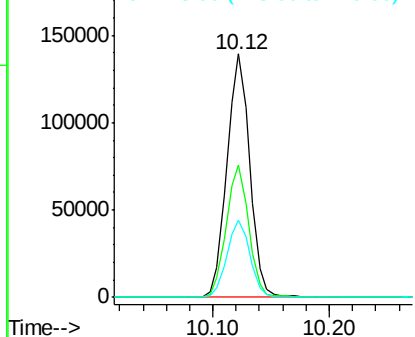
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000488.D
Acq: 28 Mar 2018 15:00

Instrument :
MSVOA_X
ClientSampled :
CL-02-032718-D

Tgt Ion:117 Resp: 190317
Ion Ratio Lower Upper
117 100
82 54.4 43.8 65.8
119 31.7 24.9 37.3

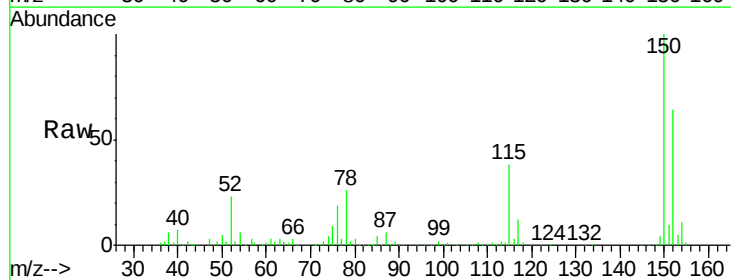


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

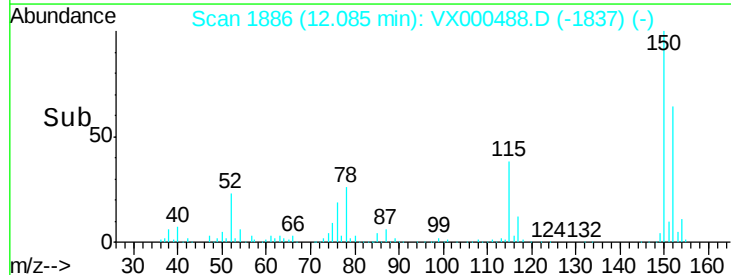
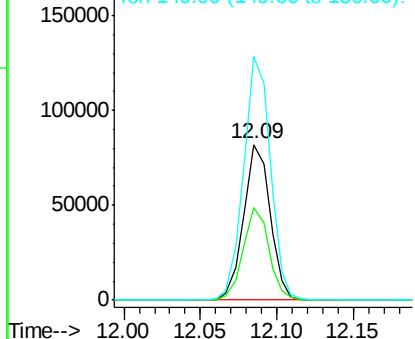


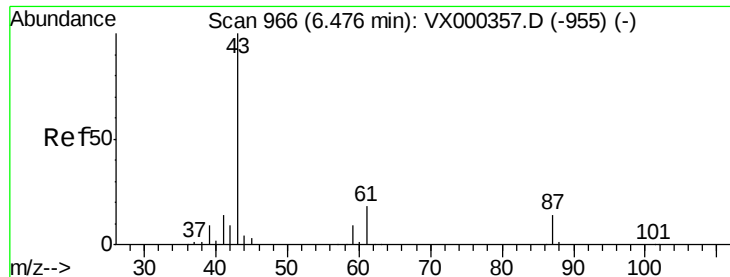
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX000488.D
Acq: 28 Mar 2018 15:00

Tgt Ion:152 Resp: 99121
Ion Ratio Lower Upper
152 100
115 57.5 39.8 119.3
150 157.3 0.0 344.4



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





#74

N-ethyl acetate

Concen: Below Cal

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000488.D

Acq: 28 Mar 2018 15:00

Instrument :

MSVOA_X

ClientSampled :

CL-02-032718-D

Tgt Ion: 43 Resp: 2033

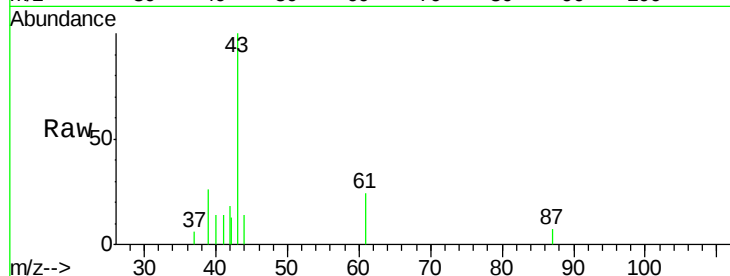
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 13.0 14.4 21.6#

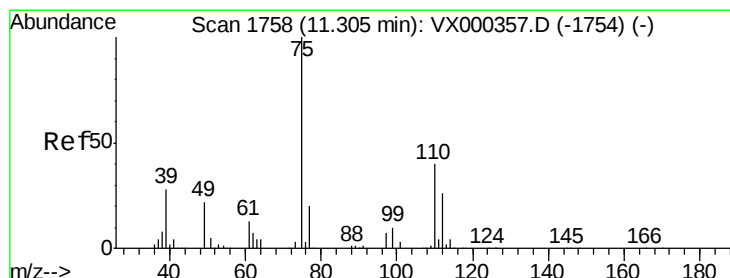
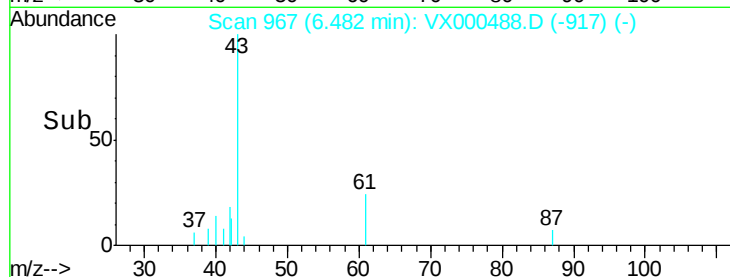
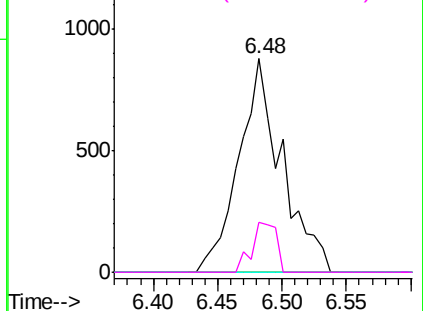


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 22.67 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000488.D

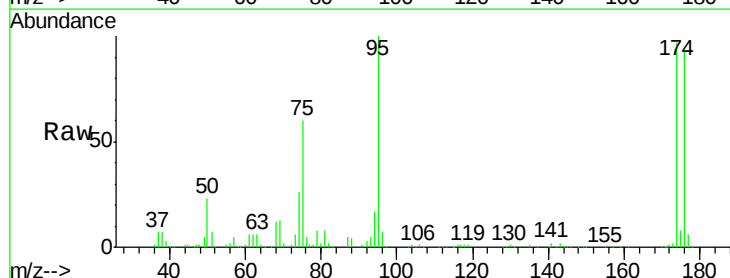
Acq: 28 Mar 2018 15:00

Tgt Ion: 75 Resp: 48291

Ion Ratio Lower Upper

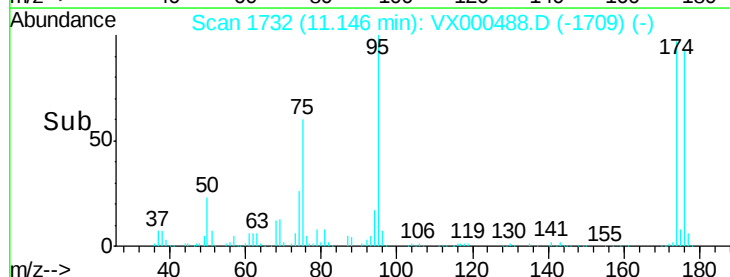
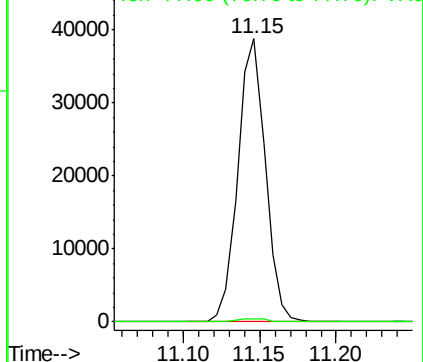
75 100

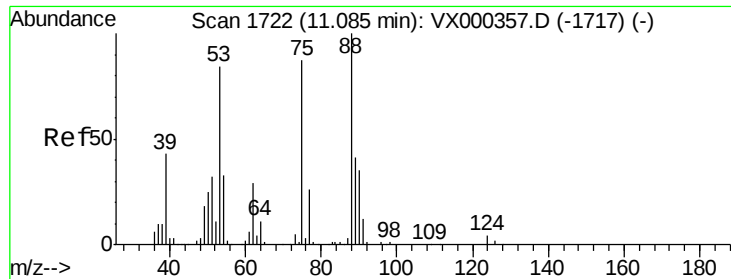
77 1.2 21.4 64.2#



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: 73.39 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000488.D

Acq: 28 Mar 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

CL-02-032718-D

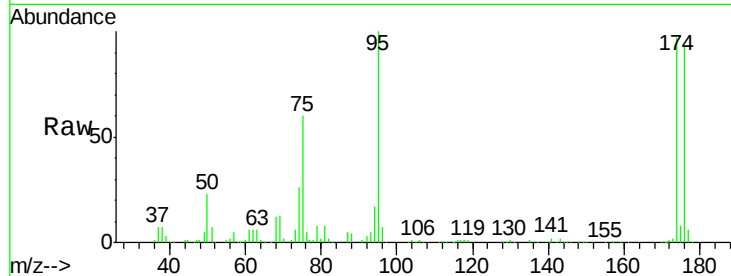
Tgt Ion: 75 Resp: 48291

Ion Ratio Lower Upper

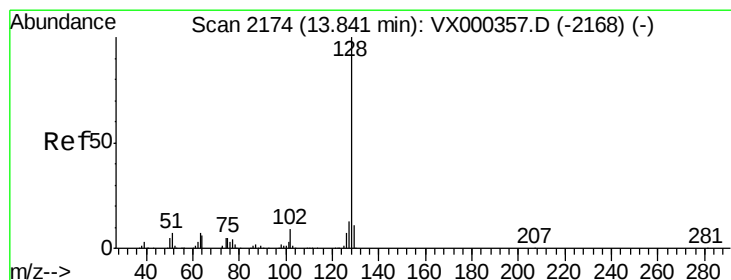
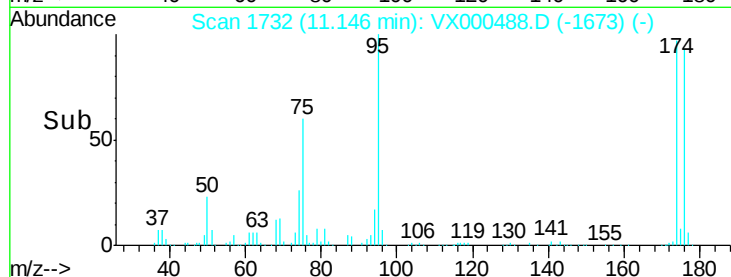
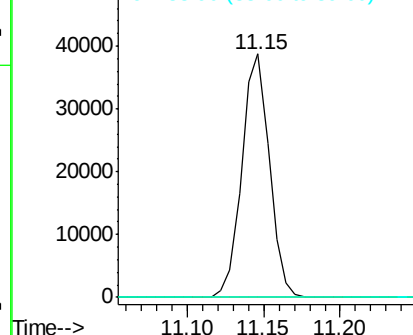
75 100

53 0.0 80.7 121.1#

89 0.0 39.4 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#95

Naphthalene

Concen: 1.90 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000488.D

Acq: 28 Mar 2018 15:00

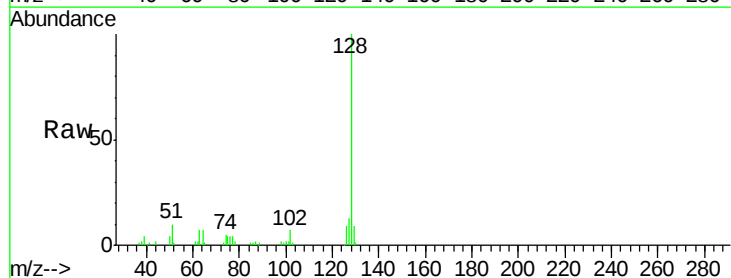
Tgt Ion:128 Resp: 15408

Ion Ratio Lower Upper

128 100

127 13.4 10.6 15.8

129 10.7 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

