

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX032718\
 Data File : VX000467.D
 Acq On : 27 Mar 2018 19:03
 Operator : JC/MD
 Sample : J2065-03 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RO-CV-2536

Quant Time: Mar 28 06:54:17 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	103322	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	182589	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	174952	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	89136	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	76789	56.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.88%	
35) Dibromofluoromethane	5.51	113	59209	51.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.94%	
50) Toluene-d8	8.73	98	230708	48.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.84%	
62) 4-Bromofluorobenzene	11.15	95	77929	40.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.20%	

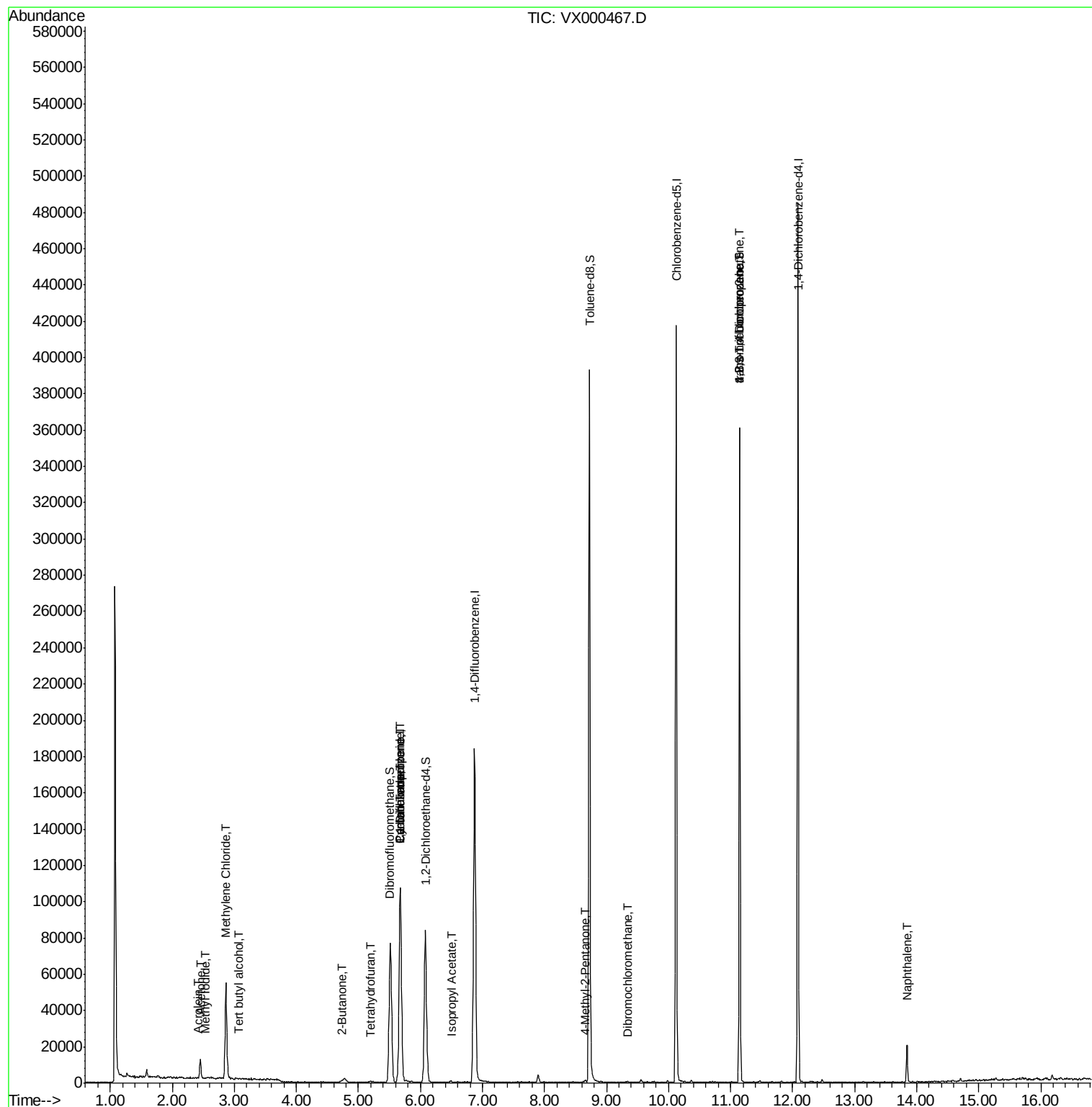
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.70	64	167	Below Cal	#	44
10) Methyl Iodide	2.53	142	25	4.29	ug/l #	37
11) Tert butyl alcohol	3.06	59	605	1.30	ug/l	97
13) Acrolein	2.42	56	20	14.71	ug/l #	1
14) Allyl chloride	2.70	41	131	Below Cal	#	79
16) Acetone	2.45	43	10994	9.80	ug/l	89
20) Methylene Chloride	2.87	84	22843	17.63	ug/l	96
25) 2-Butanone	4.73	43	1213	0.96	ug/l	99
29) Tetrahydrofuran	5.19	42	383	0.49	ug/l #	48
31) Cyclohexane	5.68	56	2543	1.49	ug/l #	64
36) 1,1-Dichloropropene	5.68	75	8347	4.88	ug/l #	50
38) Carbon Tetrachloride	5.67	117	10517	5.86	ug/l #	15
43) Isopropyl Acetate	6.49	43	924	0.27	ug/l #	73
51) 4-Methyl-2-Pentanone	8.66	43	1130	0.42	ug/l #	62
60) Dibromochloromethane	9.34	129	153	4.20	ug/l #	12
74) N-amyl acetate	6.49	43	924	Below Cal	#	78
76) 1,2,3-Trichloropropane	11.15	75	44130	23.04	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.15	75	44130	74.58	ug/l #	9
95) Naphthalene	13.85	128	12185	1.67	ug/l	97

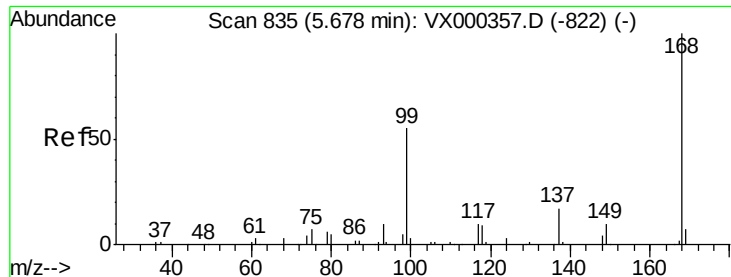
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.01 min

Lab File: VX000467.D

Acq: 27 Mar 2018 19:03

Instrument :

MSVOA_X

ClientSampled :

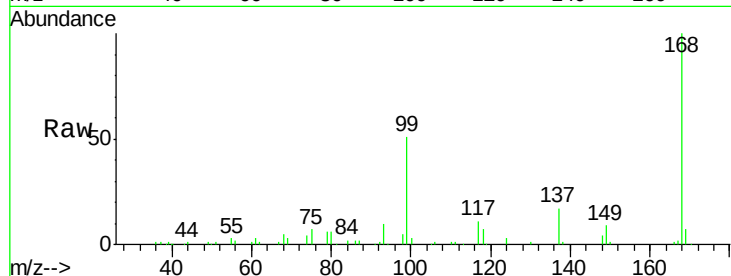
RO-CV-2536

Tgt Ion:168 Resp: 103322

Ion Ratio Lower Upper

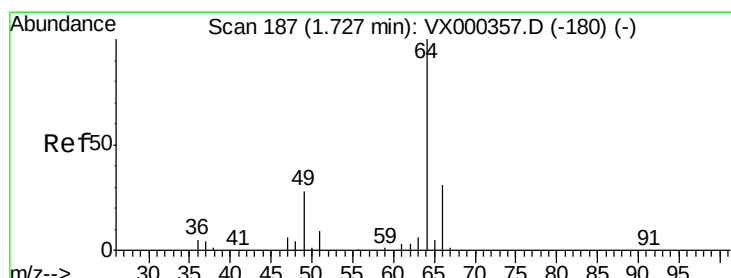
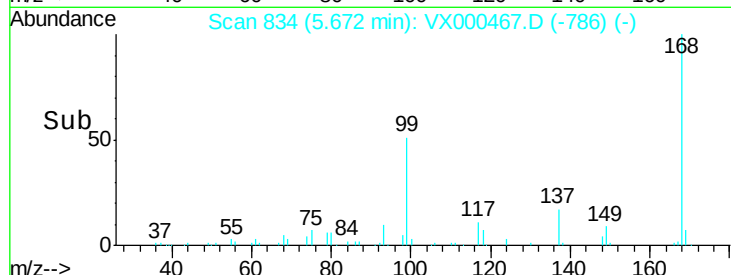
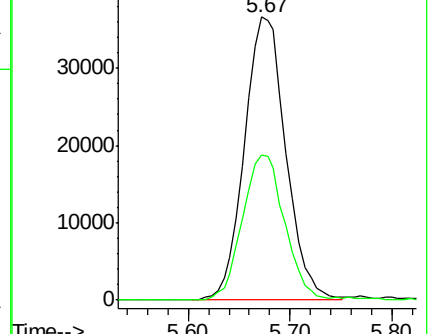
168 100

99 51.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX000467.D

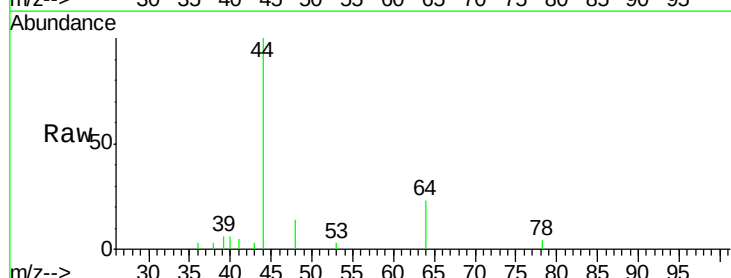
Acq: 27 Mar 2018 19:03

Tgt Ion: 64 Resp: 167

Ion Ratio Lower Upper

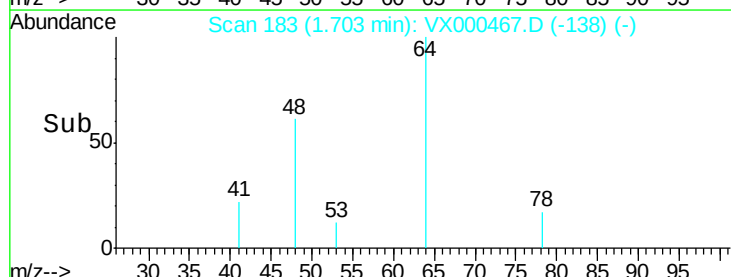
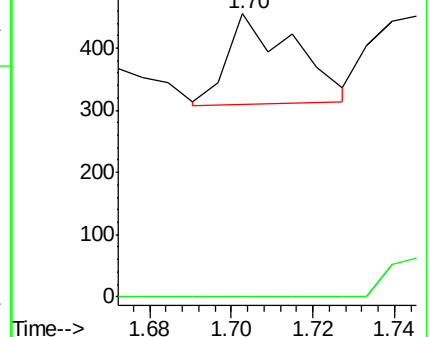
64 100

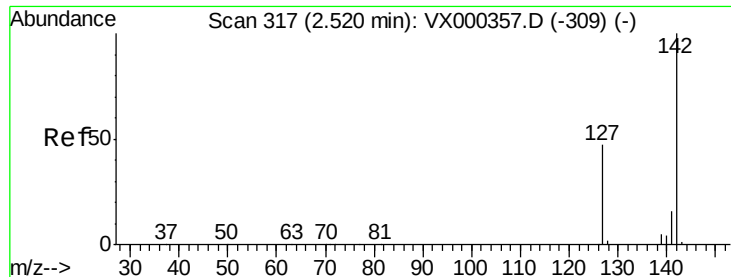
66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

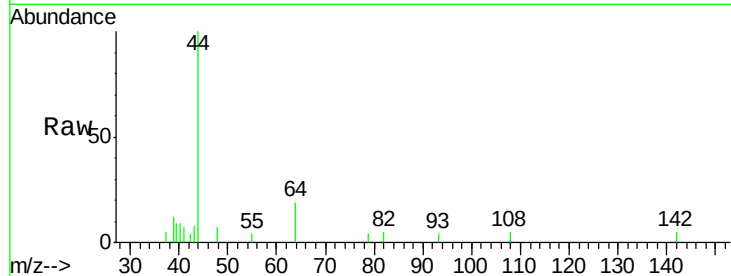




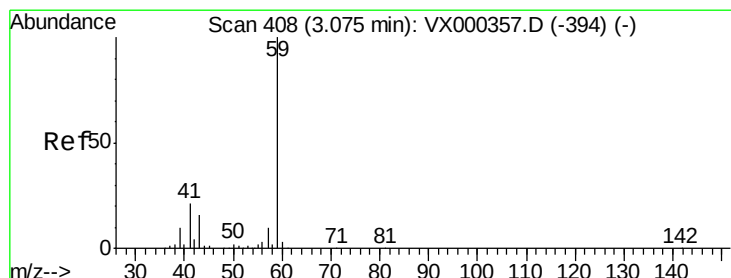
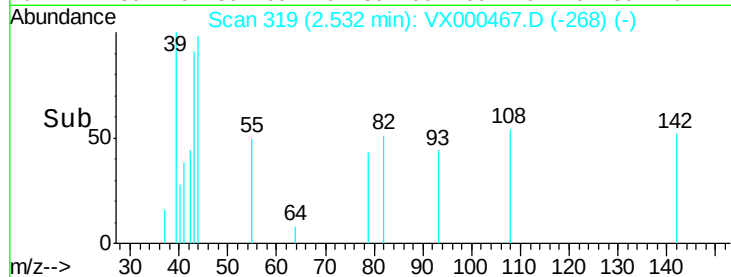
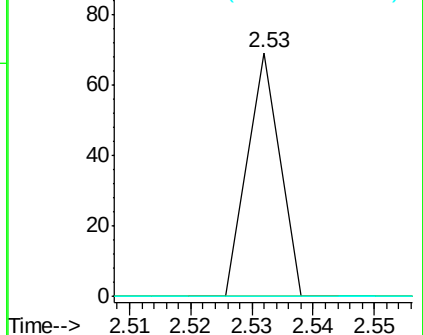
#10
Methyl Iodide
Concen: 4.29 ug/l
RT: 2.53 min Scan# 319
Delta R.T. 0.01 min
Lab File: VX000467.D
Acq: 27 Mar 2018 19:03

Instrument :
MSVOA_X
ClientSampleId :
RO-CV-2536

Tgt Ion: 142 Resp: 25
Ion Ratio Lower Upper
142 100
127 0.0 39.2 58.8#
141 0.0 11.7 17.5#

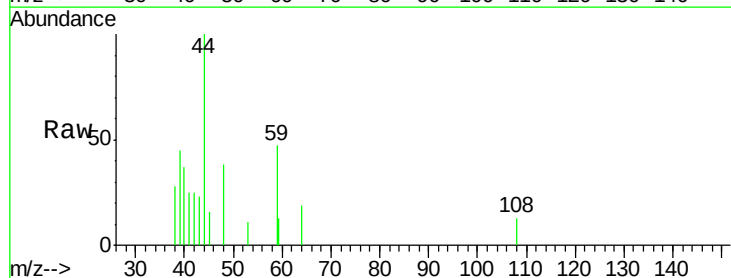


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

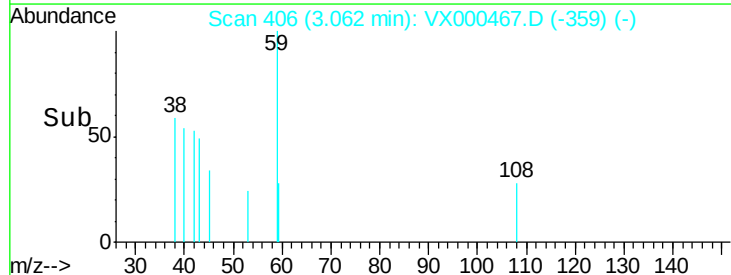
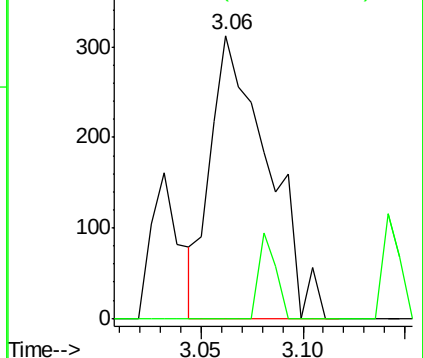


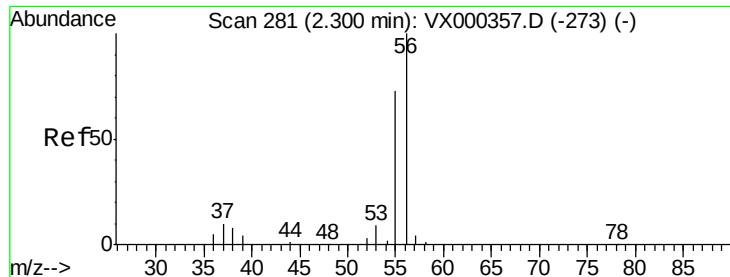
#11
Tert butyl alcohol
Concen: 1.30 ug/l
RT: 3.06 min Scan# 406
Delta R.T. -0.01 min
Lab File: VX000467.D
Acq: 27 Mar 2018 19:03

Tgt Ion: 59 Resp: 605
Ion Ratio Lower Upper
59 100
57 9.3 8.4 12.6



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 14.71 ug/l

RT: 2.42 min Scan# 300

Delta R.T. 0.12 min

Lab File: VX000467.D

Acq: 27 Mar 2018 19:03

Instrument :

MSVOA_X

ClientSampleId :

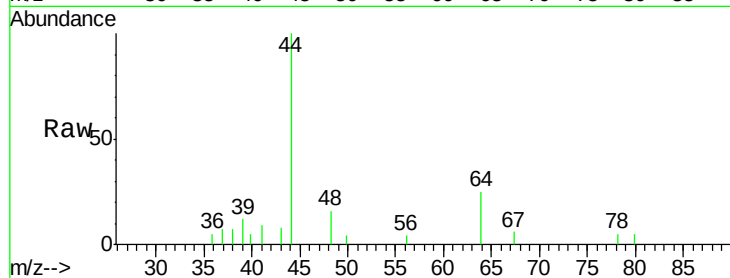
RO-CV-2536

Tgt Ion: 56 Resp: 20

Ion Ratio Lower Upper

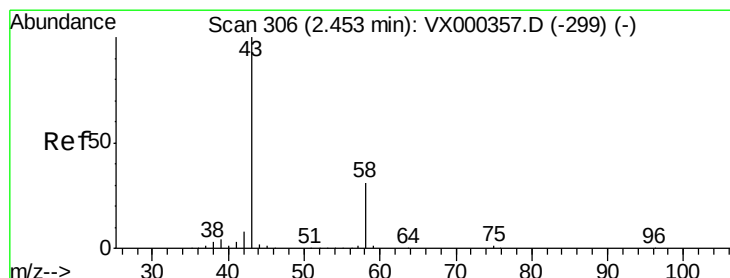
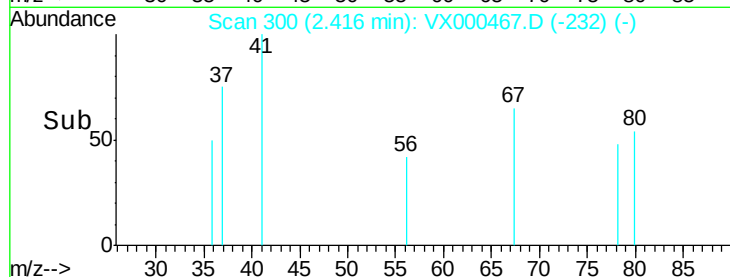
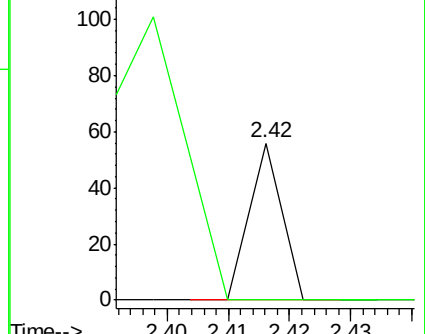
56 100

55 410.0 58.8 88.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 9.80 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000467.D

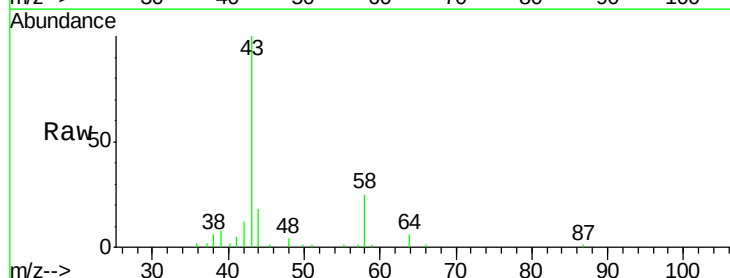
Acq: 27 Mar 2018 19:03

Tgt Ion: 43 Resp: 10994

Ion Ratio Lower Upper

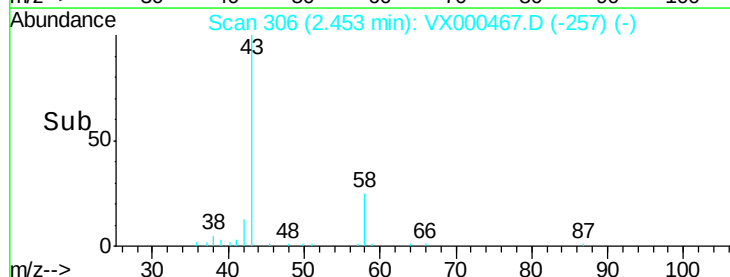
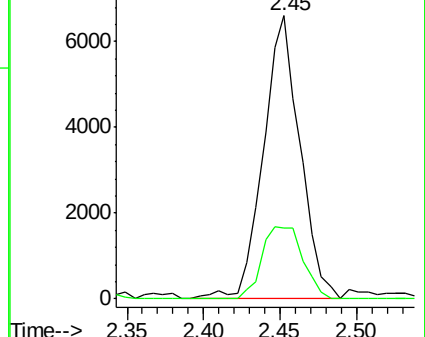
43 100

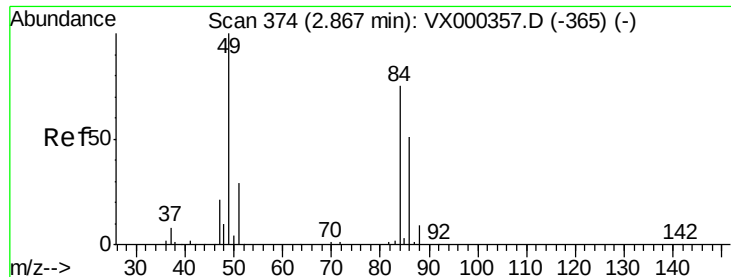
58 24.9 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

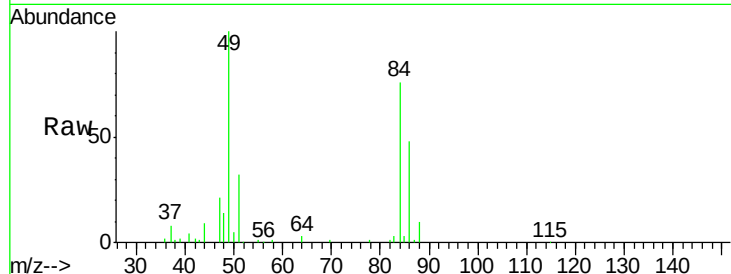




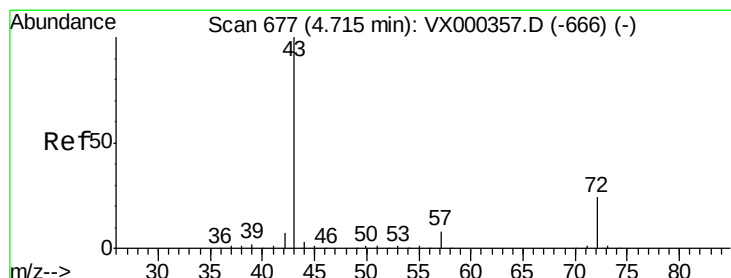
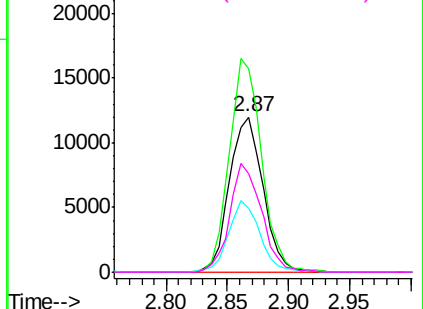
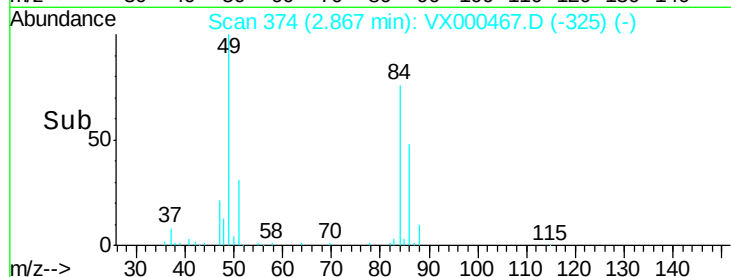
#20
Methylene Chloride
Concen: 17.63 ug/l
RT: 2.87 min Scan# 374
Delta R.T. -0.00 min
Lab File: VX000467.D
Acq: 27 Mar 2018 19:03

Instrument :
MSVOA_X
ClientSampled :
RO-CV-2536

Tgt Ion: 84 Resp: 22843
Ion Ratio Lower Upper
84 100
49 131.3 100.6 151.0
51 41.5 31.6 47.4
86 63.5 52.6 78.8

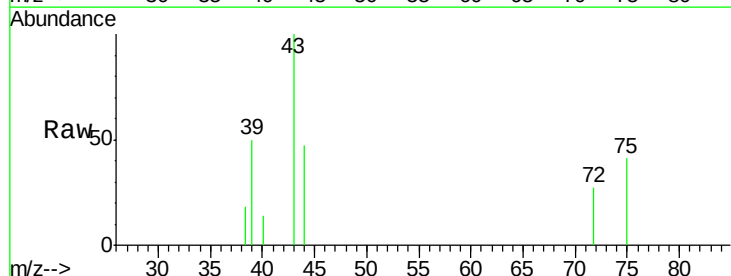


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

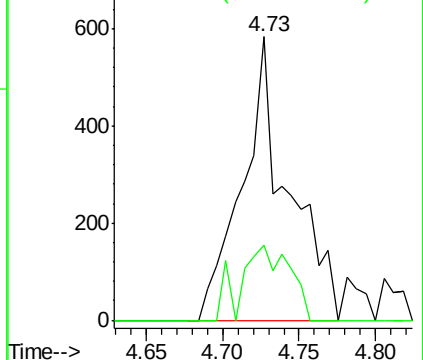
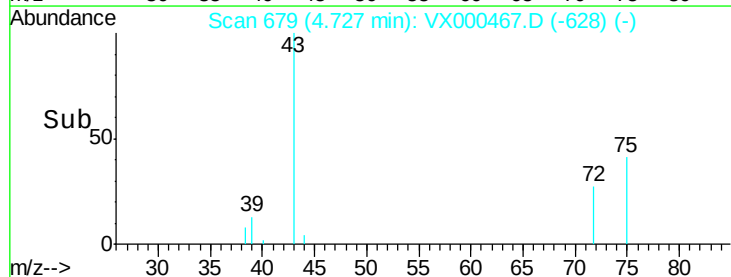


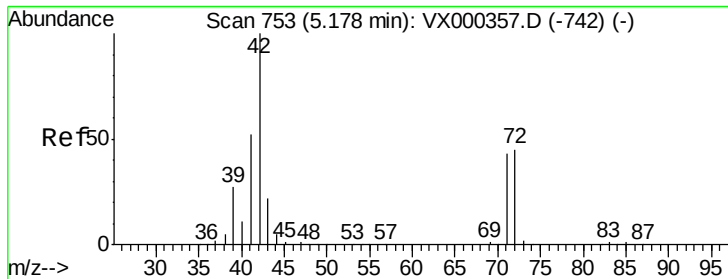
#25
2-Butanone
Concen: 0.96 ug/l
RT: 4.73 min Scan# 679
Delta R.T. 0.01 min
Lab File: VX000467.D
Acq: 27 Mar 2018 19:03

Tgt Ion: 43 Resp: 1213
Ion Ratio Lower Upper
43 100
72 26.6 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

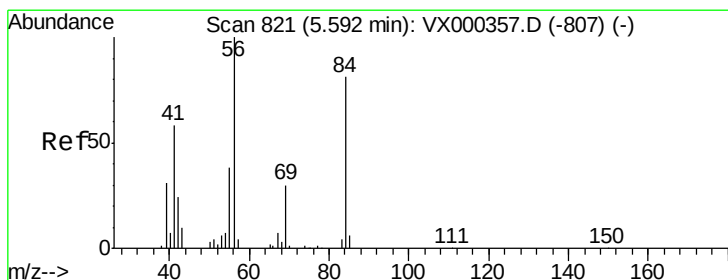
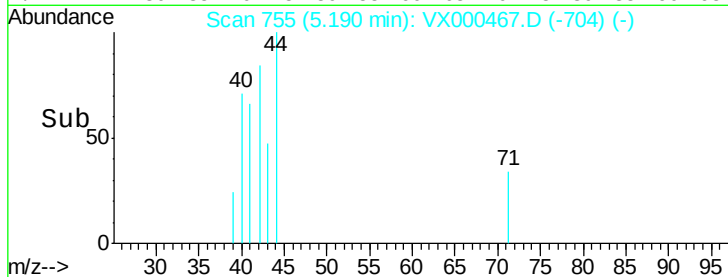
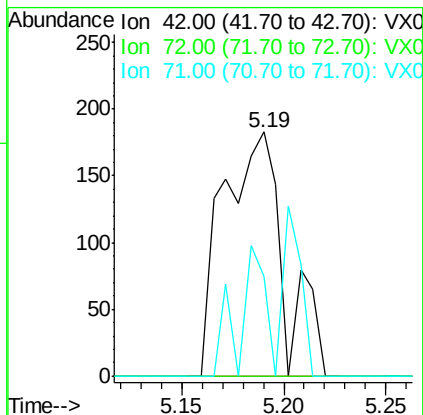
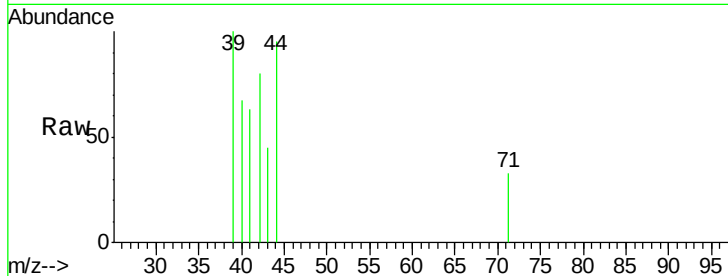




#29
Tetrahydrofuran
Concen: 0.49 ug/l
RT: 5.19 min Scan# 755
Delta R.T. 0.01 min
Lab File: VX000467.D
Acq: 27 Mar 2018 19:03

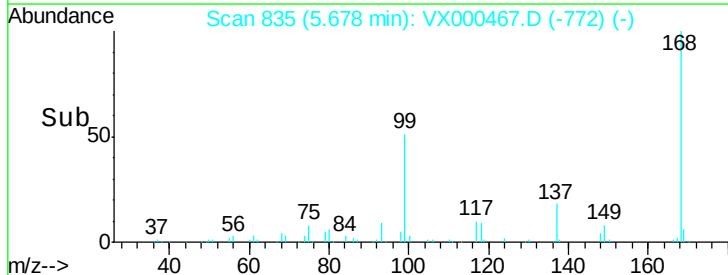
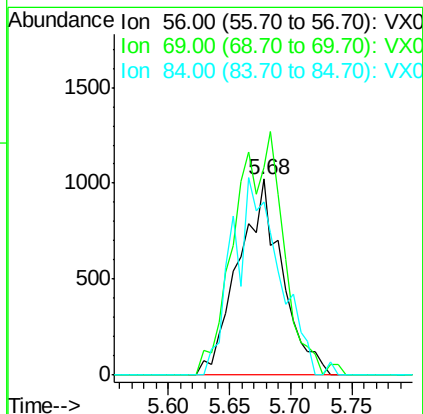
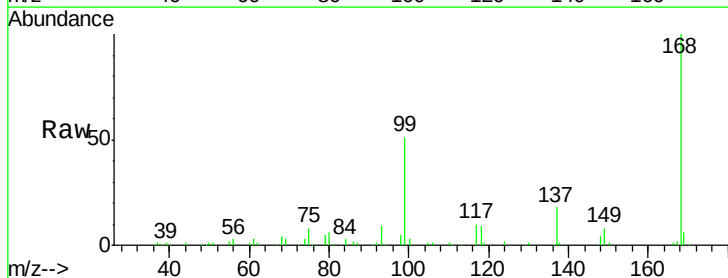
Instrument :
MSVOA_X
ClientSampled :
RO-CV-2536

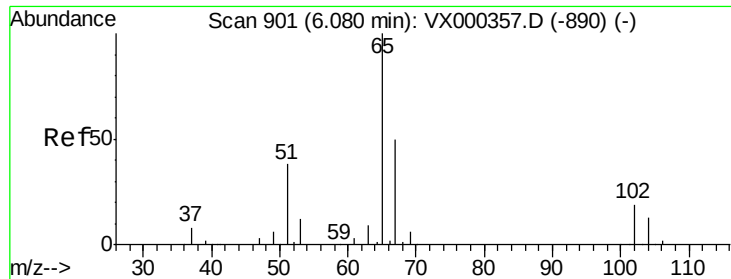
Tgt Ion: 42 Resp: 383
Ion Ratio Lower Upper
42 100
72 0.0 37.9 56.9#
71 23.2 34.4 51.6#



#31
Cyclohexane
Concen: 1.49 ug/l
RT: 5.68 min Scan# 835
Delta R.T. 0.09 min
Lab File: VX000467.D
Acq: 27 Mar 2018 19:03

Tgt Ion: 56 Resp: 2543
Ion Ratio Lower Upper
56 100
69 105.9 23.4 35.0#
84 88.6 71.0 106.4

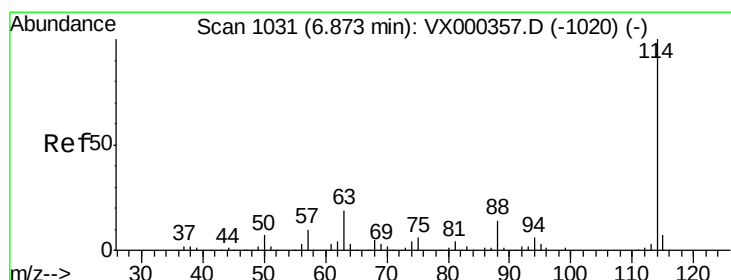
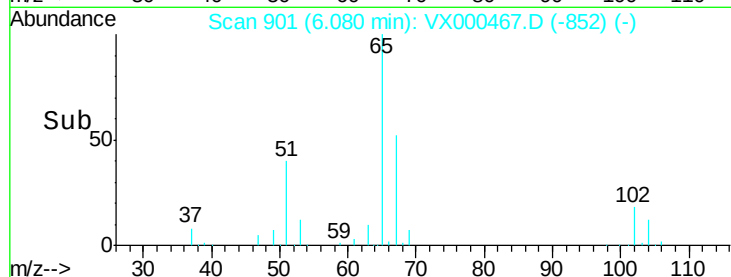
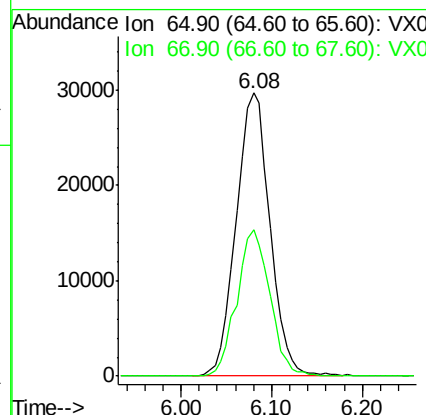
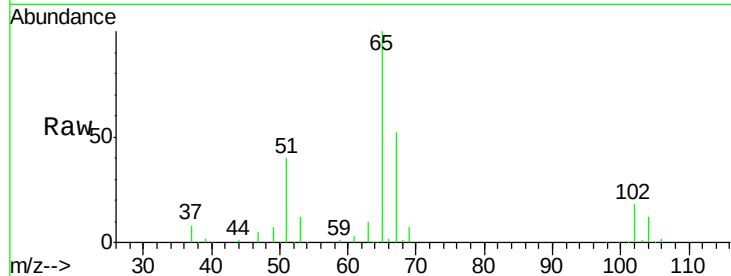




#33
 1,2-Dichloroethane-d4
 Concen: 56.94 ug/l
 RT: 6.08 min Scan# 901
 Delta R.T. 0.00 min
 Lab File: VX000467.D
 Acq: 27 Mar 2018 19:03

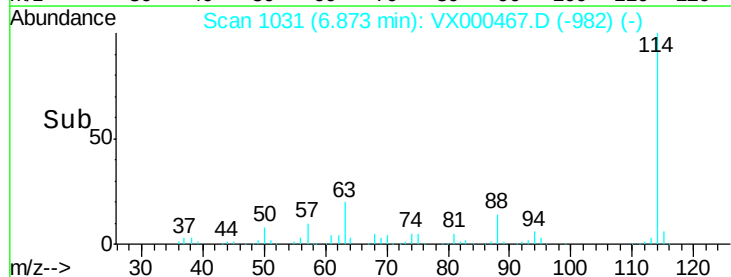
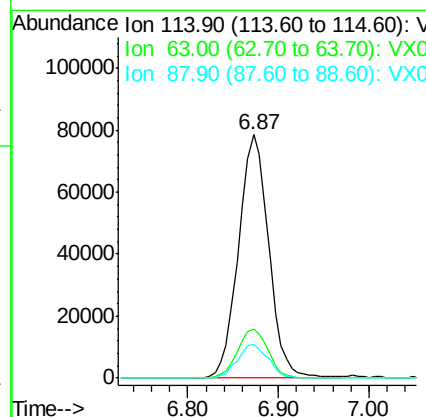
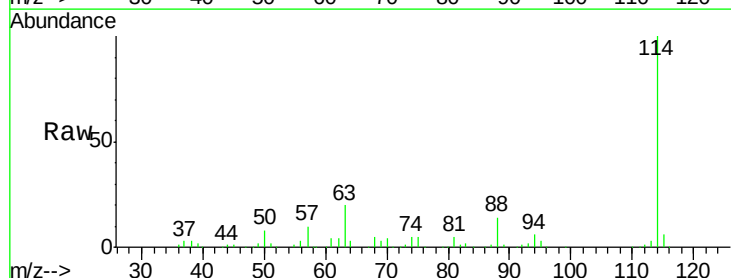
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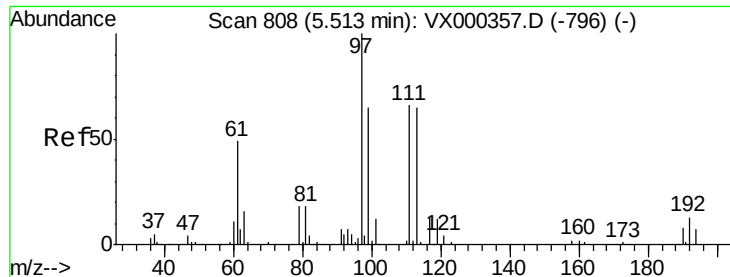
Tgt Ion: 65 Resp: 76789
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VX000467.D
 Acq: 27 Mar 2018 19:03

Tgt Ion: 114 Resp: 182589
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 38.4
 88 13.6 0.0 27.0





#35

Dibromofluoromethane

Concen: 51.47 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000467.D

Acq: 27 Mar 2018 19:03

Instrument :

MSVOA_X

ClientSampleId :

RO-CV-2536

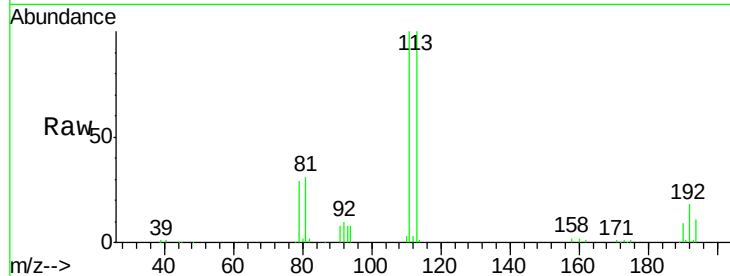
Tgt Ion:113 Resp: 59209

Ion Ratio Lower Upper

113 100

111 103.8 82.4 123.6

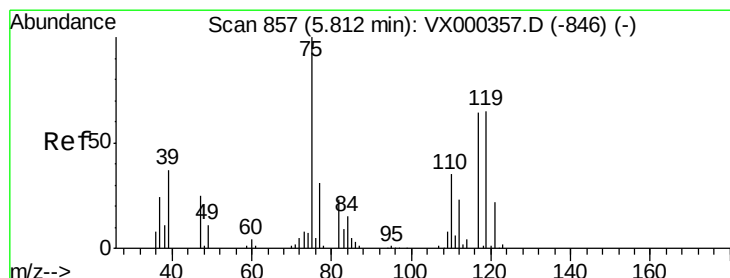
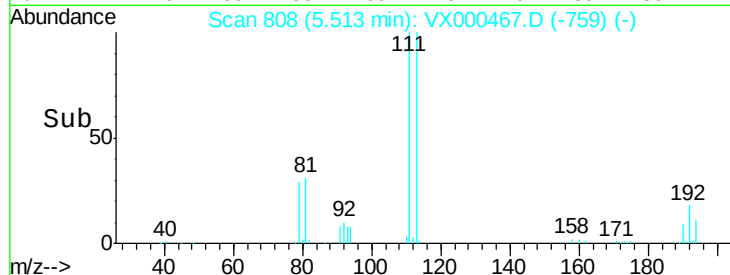
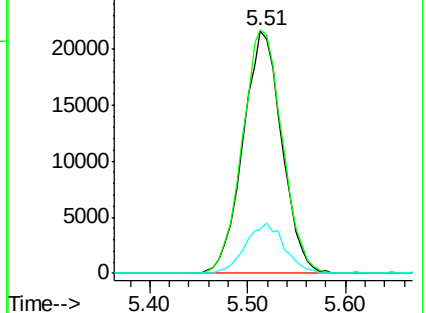
192 20.8 15.8 23.6



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: 4.88 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.13 min

Lab File: VX000467.D

Acq: 27 Mar 2018 19:03

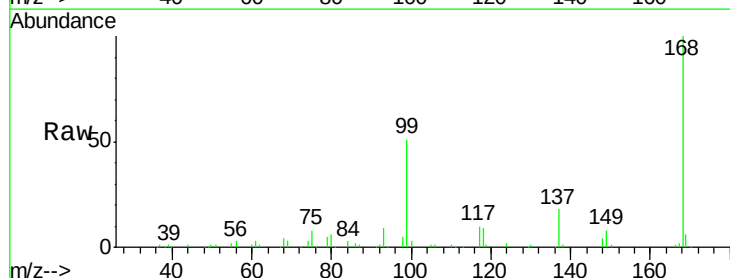
Tgt Ion: 75 Resp: 8347

Ion Ratio Lower Upper

75 100

110 9.1 17.9 53.7#

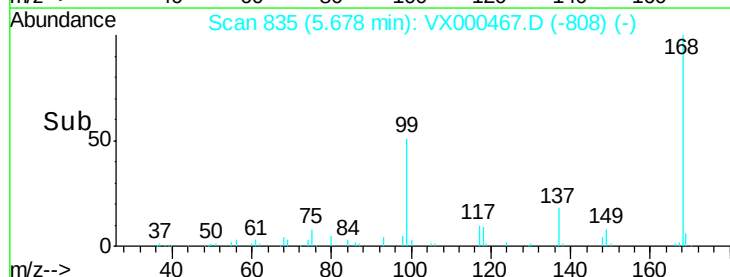
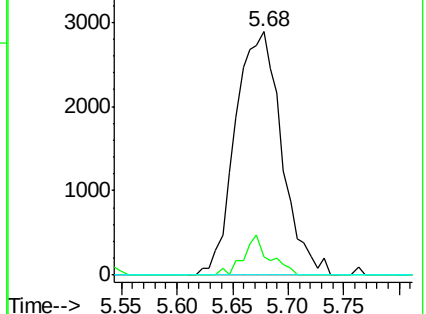
77 0.0 24.0 36.0#

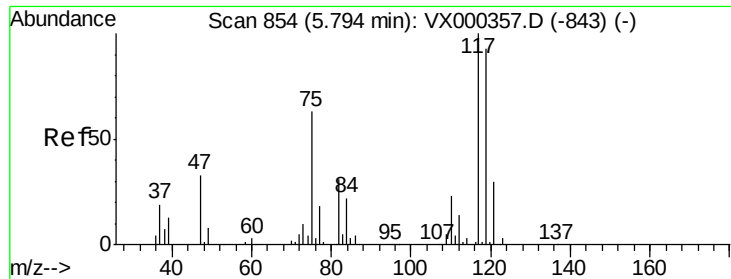


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.86 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000467.D

Acq: 27 Mar 2018 19:03

Instrument :

MSVOA_X

ClientSampled :

RO-CV-2536

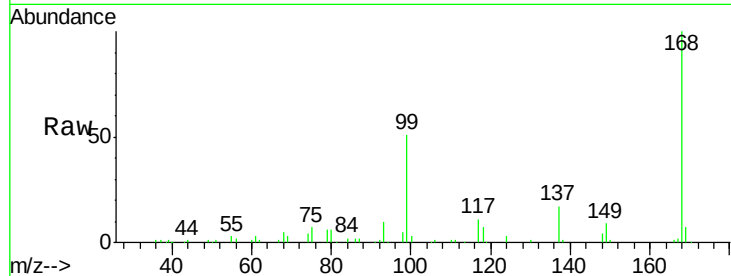
Tgt Ion: 117 Resp: 10517

Ion Ratio Lower Upper

117 100

119 4.4 77.4 116.2#

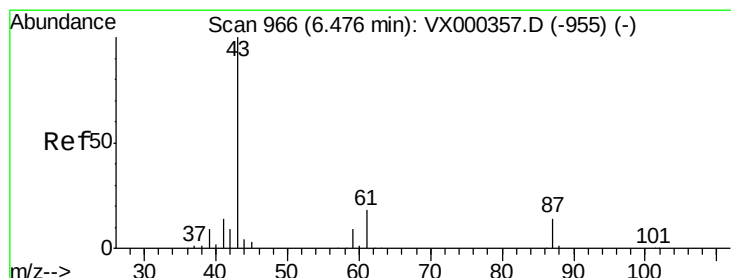
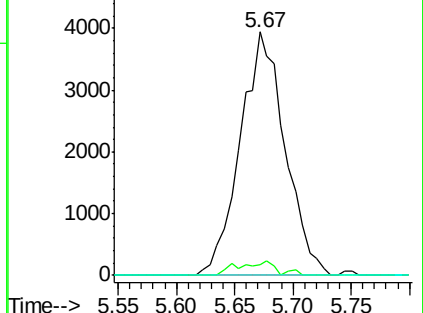
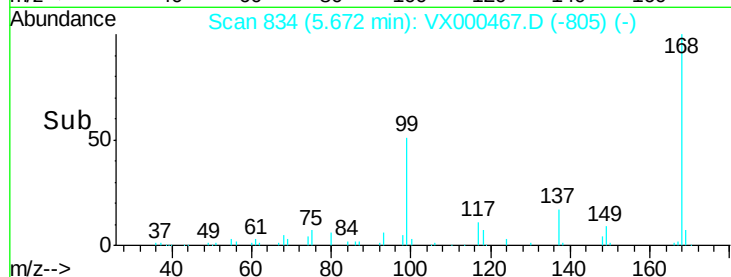
121 0.0 24.8 37.2#



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: 0.27 ug/l

RT: 6.49 min Scan# 969

Delta R.T. 0.02 min

Lab File: VX000467.D

Acq: 27 Mar 2018 19:03

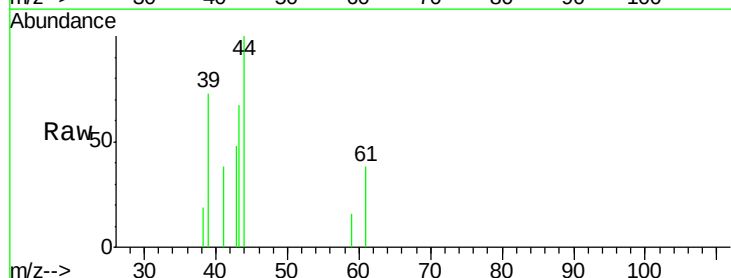
Tgt Ion: 43 Resp: 924

Ion Ratio Lower Upper

43 100

61 8.2 14.4 21.6#

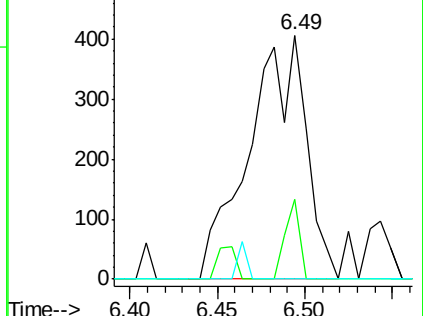
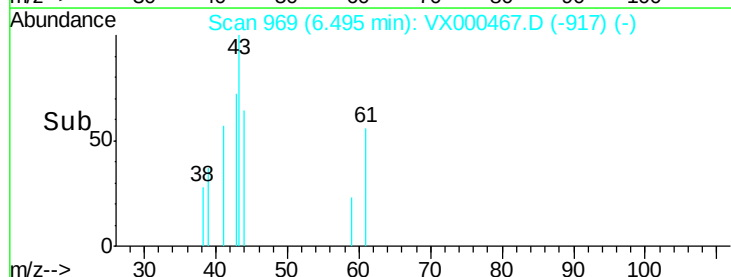
87 0.0 11.0 16.4#

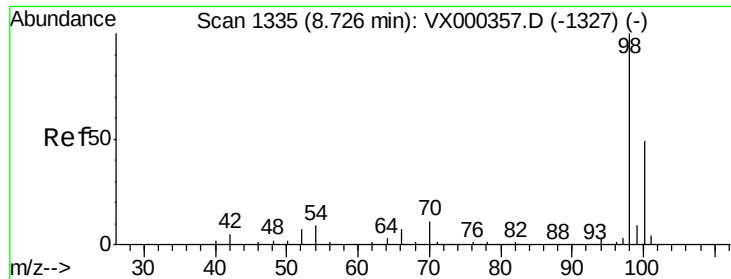


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

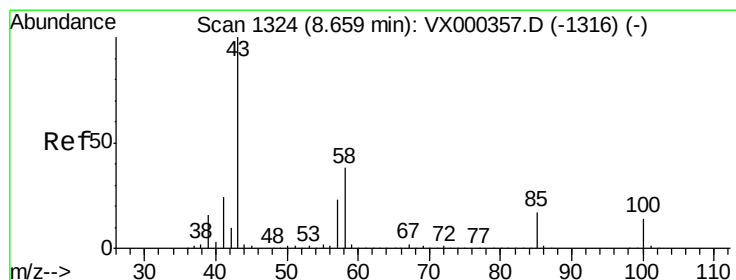
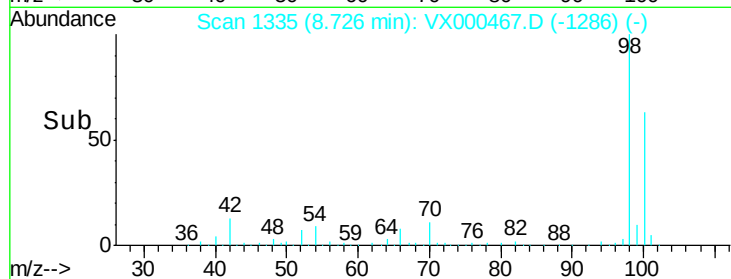
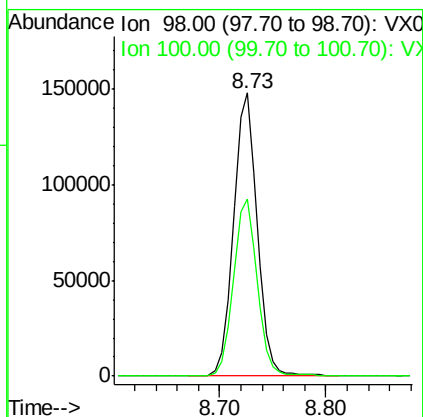
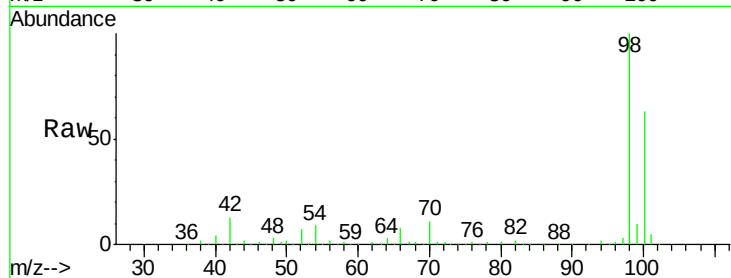




#50
Toluene-d8
Concen: 48.42 ug/l
RT: 8.73 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VX000467.D
Acq: 27 Mar 2018 19:03

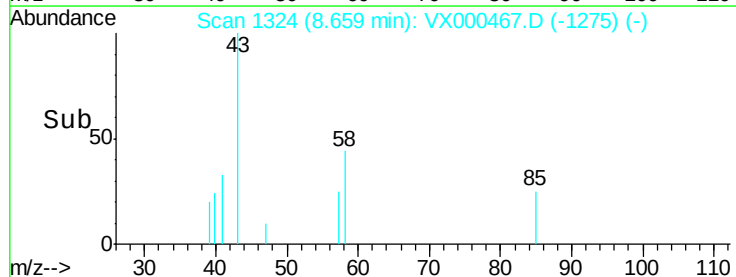
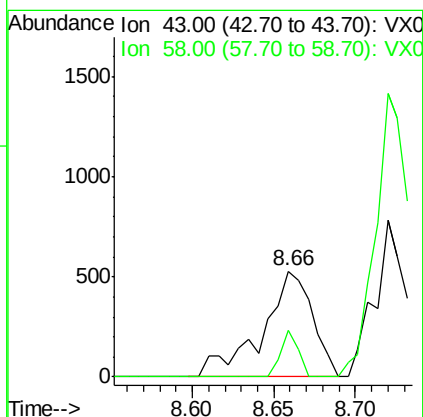
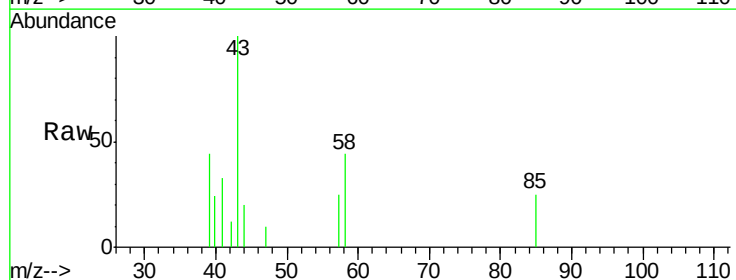
Instrument :
MSVOA_X
ClientSampled :
RO-CV-2536

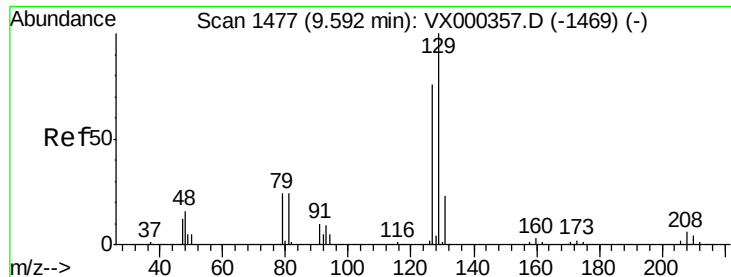
Tgt Ion: 98 Resp: 230708
Ion Ratio Lower Upper
98 100
100 63.5 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 0.42 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. -0.00 min
Lab File: VX000467.D
Acq: 27 Mar 2018 19:03

Tgt Ion: 43 Resp: 1130
Ion Ratio Lower Upper
43 100
58 14.9 30.3 45.5#





#60

Dibromochloromethane

Concen: 4.20 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.26 min

Lab File: VX000467.D

Acq: 27 Mar 2018 19:03

Instrument :

MSVOA_X

ClientSampleId :

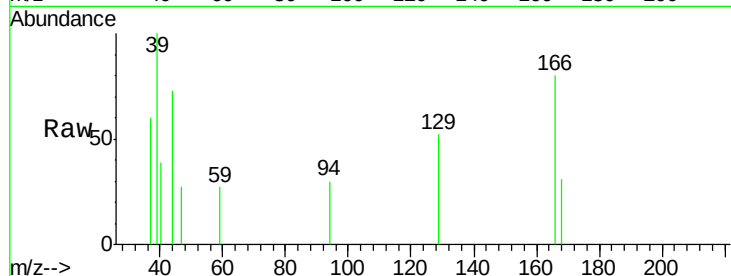
RO-CV-2536

Tgt Ion:129 Resp: 153

Ion Ratio Lower Upper

129 100

127 0.0 37.9 113.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

100

80

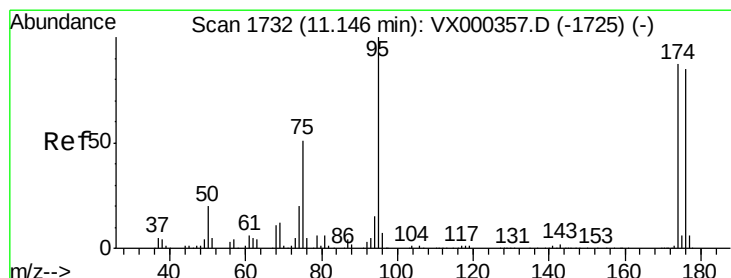
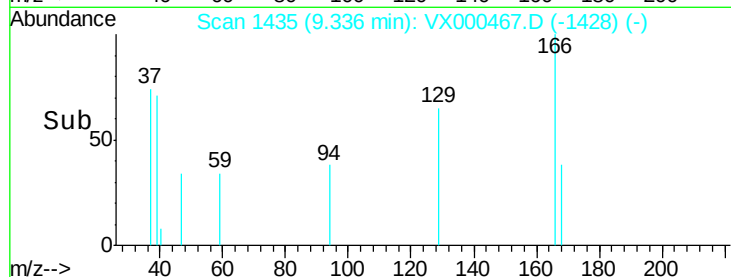
60

40

20

0

Time--> 9.30 9.32 9.34 9.36 9.38



#62

4-Bromofluorobenzene

Concen: 40.10 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000467.D

Acq: 27 Mar 2018 19:03

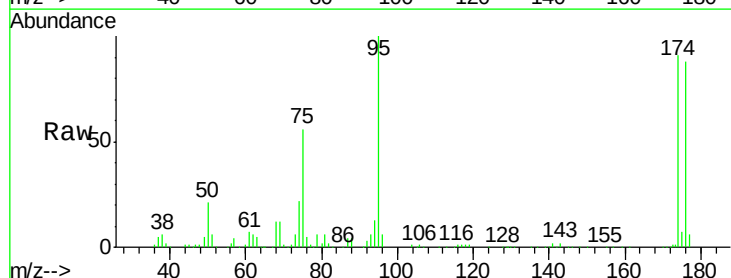
Tgt Ion: 95 Resp: 77929

Ion Ratio Lower Upper

95 100

174 89.7 0.0 173.6

176 88.1 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

80000

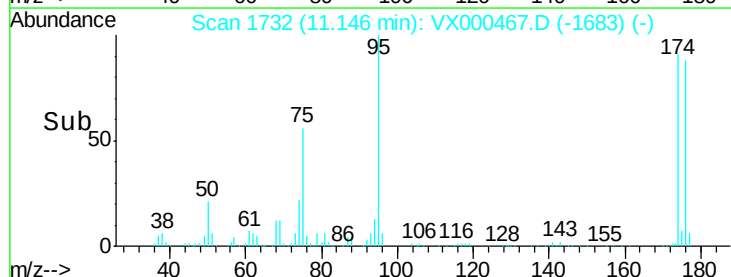
60000

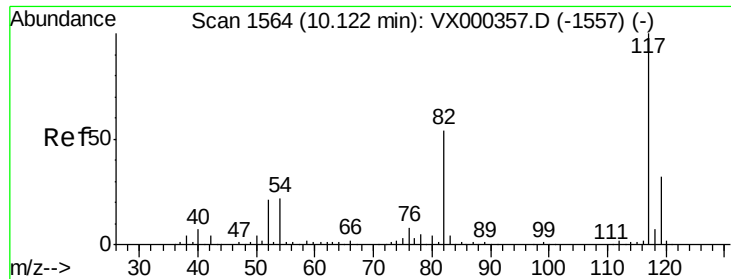
40000

20000

0

Time--> 11.10 11.20

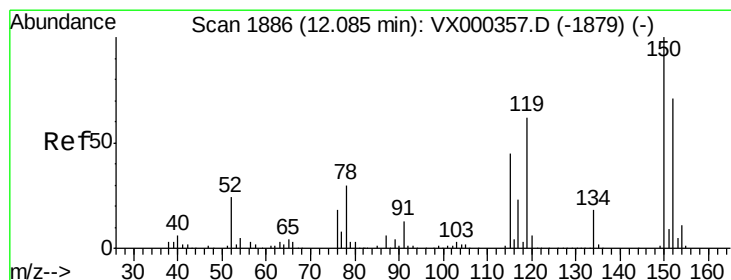
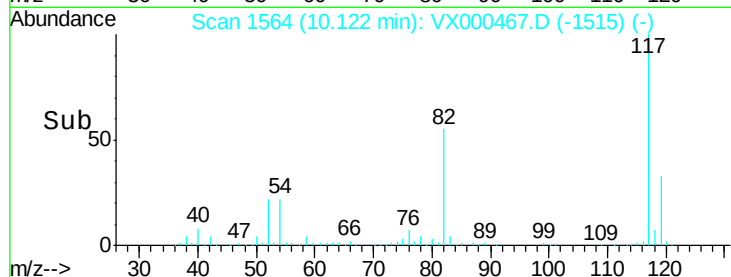
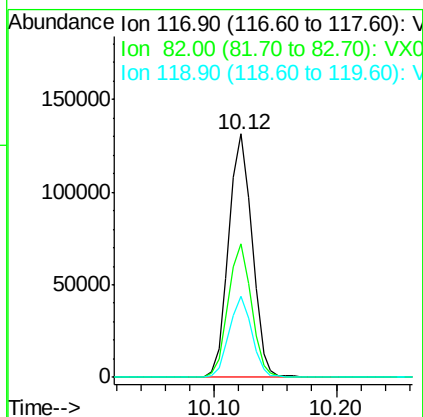
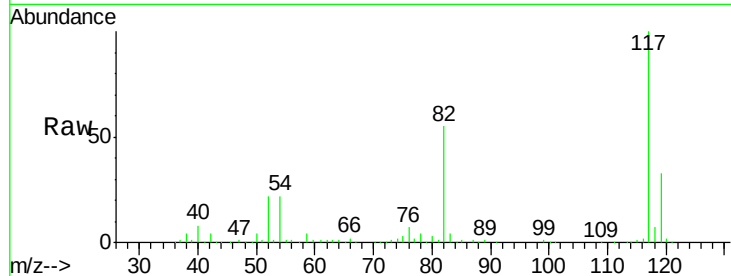




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000467.D
Acq: 27 Mar 2018 19:03

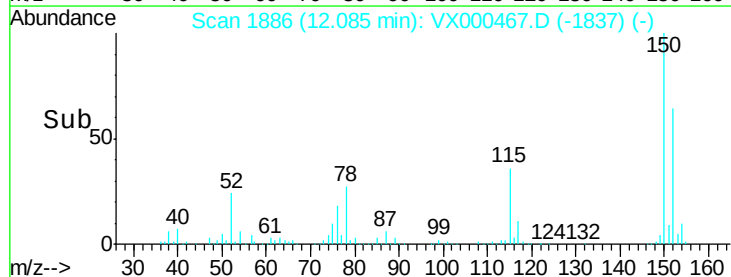
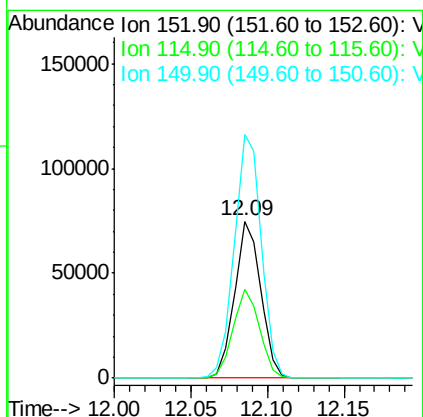
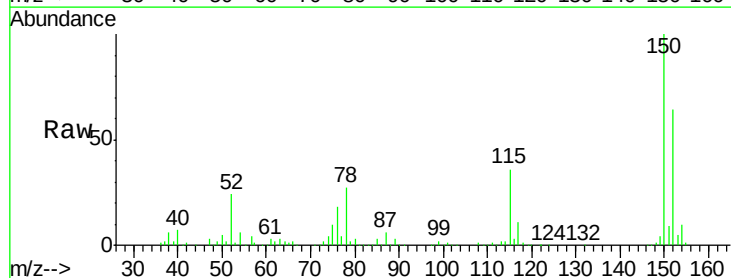
Instrument :
MSVOA_X
ClientSampleId :
RO-CV-2536

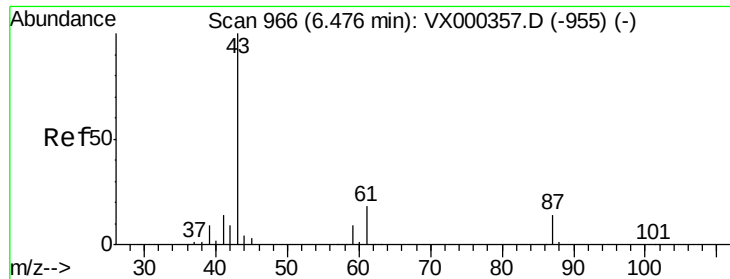
Tgt Ion:117 Resp: 174952
Ion Ratio Lower Upper
117 100
82 55.1 43.8 65.8
119 33.3 24.9 37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX000467.D
Acq: 27 Mar 2018 19:03

Tgt Ion:152 Resp: 89136
Ion Ratio Lower Upper
152 100
115 56.9 39.8 119.3
150 159.5 0.0 344.4





#74

N-ethyl acetate

Concen: Below Cal

RT: 6.49 min Scan# 969

Delta R.T. 0.02 min

Lab File: VX000467.D

Acq: 27 Mar 2018 19:03

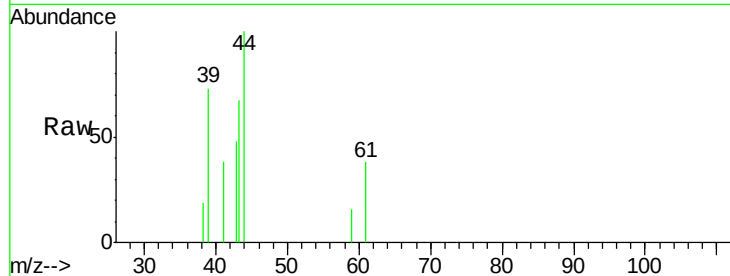
Instrument :

MSVOA_X

ClientSampled :

RO-CV-2536

Tgt Ion:	43	Resp:	924
Ion	Ratio	Lower	Upper
43	100		
70	0.0	0.0	0.0
55	0.0	0.0	0.0
61	8.2	14.4	21.6#

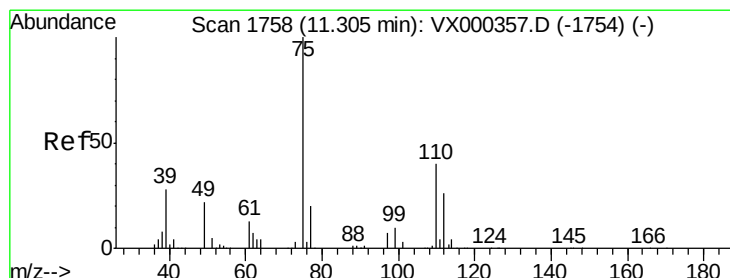
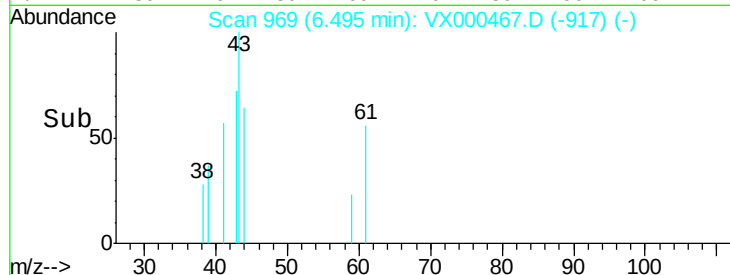
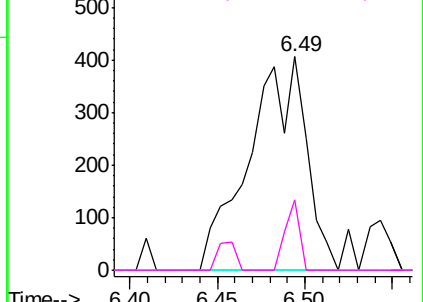


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.04 ug/l

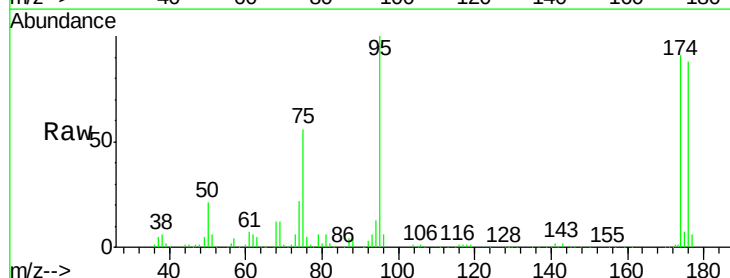
RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000467.D

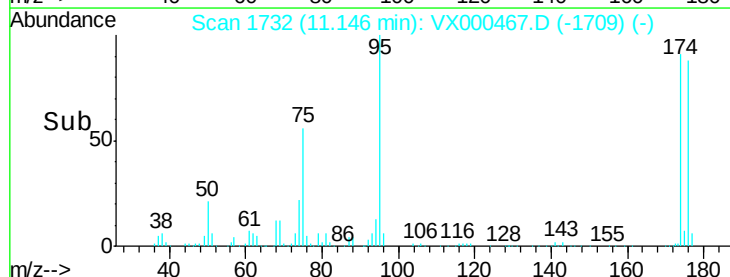
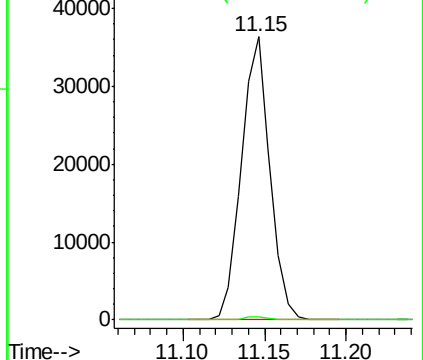
Acq: 27 Mar 2018 19:03

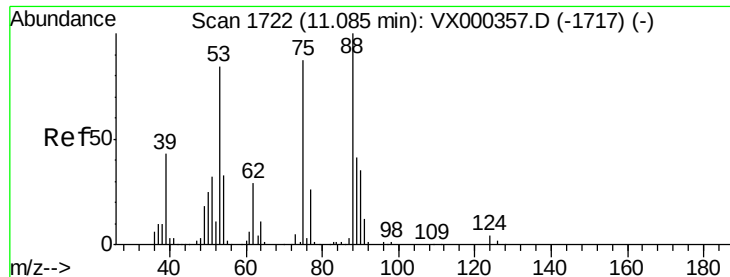
Tgt Ion:	75	Resp:	44130
Ion	Ratio	Lower	Upper
75	100		
77	1.1	21.4	64.2#



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: 74.58 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000467.D

Acq: 27 Mar 2018 19:03

Instrument :

MSVOA_X

ClientSampleId :

RO-CV-2536

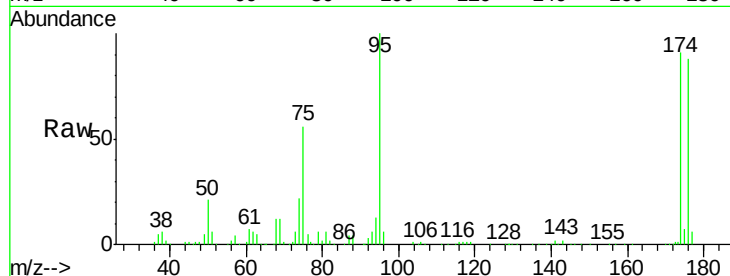
Tgt Ion: 75 Resp: 44130

Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

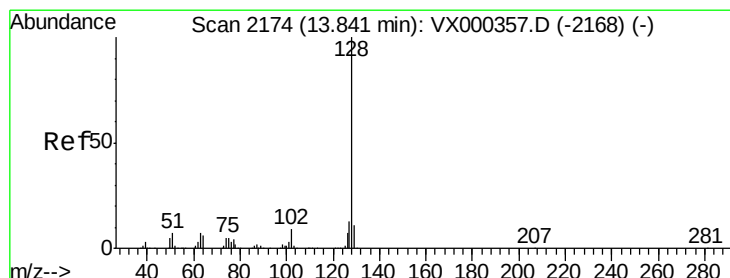
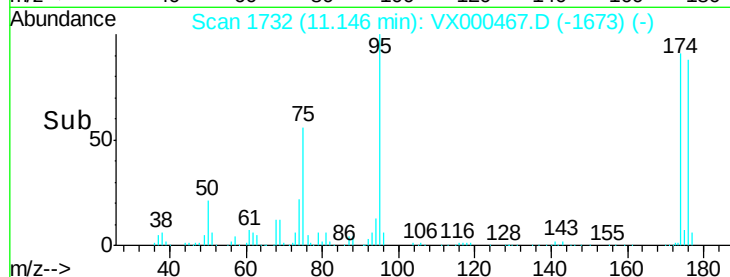
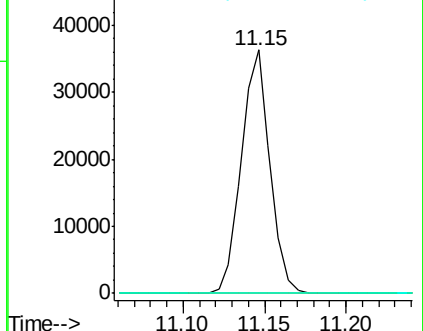
89 0.0 39.4 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX000357.D (-1717) (-)

Ion 53.00 (52.70 to 53.70): VX000357.D (-1717) (-)

Ion 88.90 (88.60 to 89.60): VX000357.D (-1717) (-)



#95

Naphthalene

Concen: 1.67 ug/l

RT: 13.85 min Scan# 2175

Delta R.T. 0.01 min

Lab File: VX000467.D

Acq: 27 Mar 2018 19:03

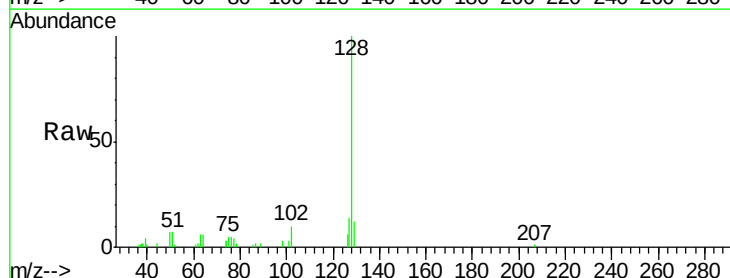
Tgt Ion: 128 Resp: 12185

Ion Ratio Lower Upper

128 100

127 13.7 10.6 15.8

129 12.6 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): VX000357.D (-2168) (-)

Ion 127.00 (126.70 to 127.70): VX000357.D (-2168) (-)

Ion 129.00 (128.70 to 129.70): VX000357.D (-2168) (-)

