

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072618\
 Data File : VX003673.D
 Acq On : 26 Jul 2018 16:37
 Operator : JC/SP
 Sample : J4104-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LC-SD-EB03-180719

Quant Time: Jul 27 05:35:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072418W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 02:16:51 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	91834	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	133182	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	123881	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	63910	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	76147	55.98	ug/l	0.00
Spiked Amount			Recovery	=	111.96%	
35) Dibromofluoromethane	5.50	113	62240	57.17	ug/l	0.00
Spiked Amount			Recovery	=	114.34%	
50) Toluene-d8	8.72	98	217242	52.28	ug/l	0.00
Spiked Amount			Recovery	=	104.56%	
62) 4-Bromofluorobenzene	11.14	95	72558	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	

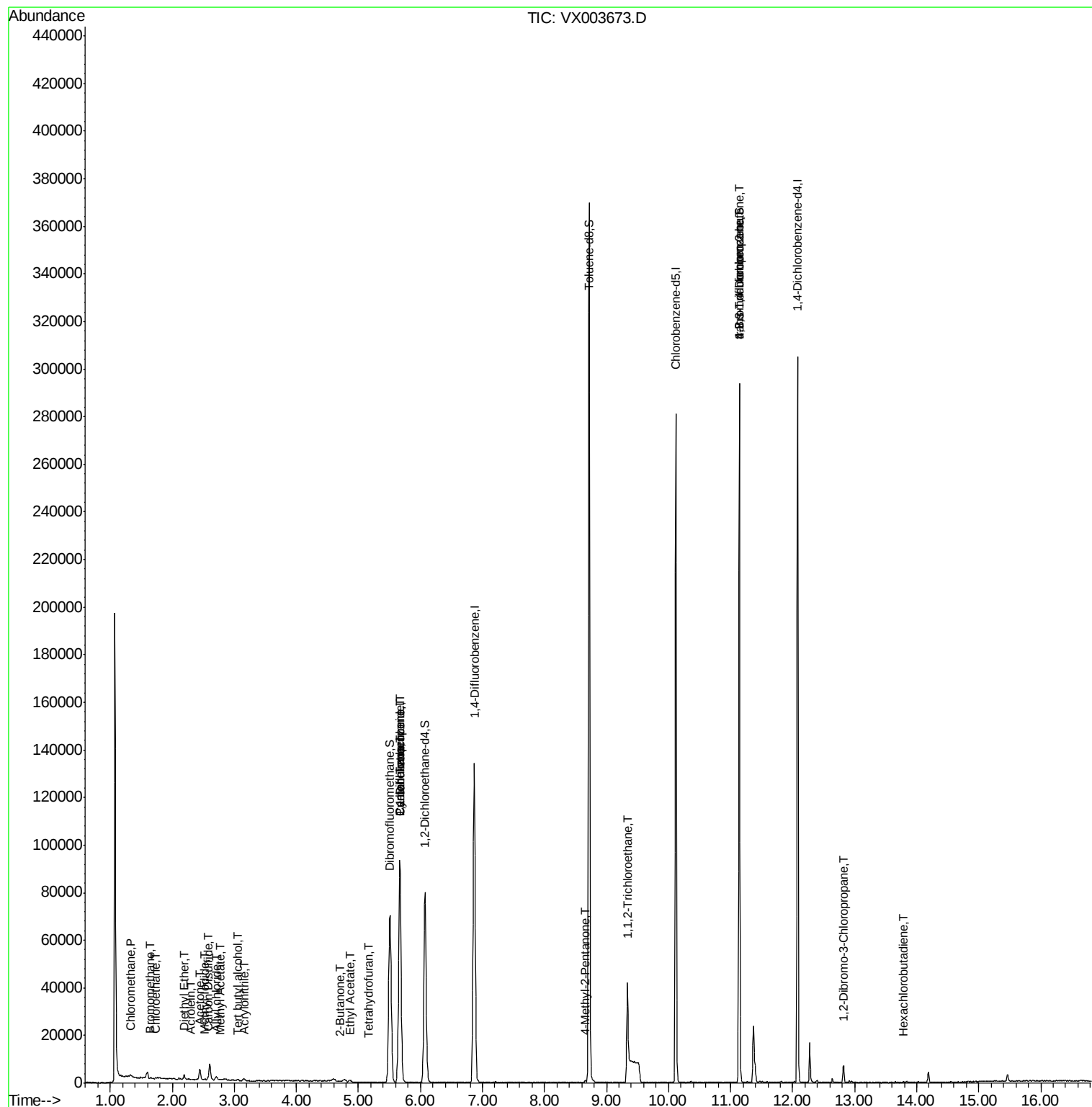
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	319	0.23	ug/l	92
5) Bromomethane	1.65	94	219	0.32	ug/l	92
6) Chloroethane	1.73	64	125	2.07	ug/l #	42
8) Diethyl Ether	2.19	74	617	0.78	ug/l	79
10) Methyl Iodide	2.52	142	266	3.34	ug/l #	70
11) Tert butyl alcohol	3.05	59	541	1.66	ug/l #	72
13) Acrolein	2.29	56	47	4.31	ug/l #	15
14) Allyl chloride	2.71	41	1661	0.75	ug/l #	58
15) Acrylonitrile	3.15	53	555	0.71	ug/l #	93
16) Acetone	2.44	43	4701	7.36	ug/l	96
17) Carbon Disulfide	2.57	76	903	0.30	ug/l #	90
18) Methyl Acetate	2.78	43	388	0.20	ug/l #	53
25) 2-Butanone	4.71	43	861	0.87	ug/l #	50
29) Tetrahydrofuran	5.17	42	220	0.34	ug/l #	35
31) Cyclohexane	5.67	56	1831	1.00	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	6346	4.08	ug/l #	49
37) Ethyl Acetate	4.87	43	1664	0.89	ug/l #	83
38) Carbon Tetrachloride	5.67	117	8511	5.67	ug/l #	14
51) 4-Methyl-2-Pentanone	8.66	43	789	0.43	ug/l	96
55) 1,1,2-Trichloroethane	9.34	97	310	0.26	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	35449	26.44	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.14	75	35449	81.93	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.82	75	171	0.51	ug/l #	1
94) Hexachlorobutadiene	13.79	225	163	0.22	ug/l	86

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

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Quant Title : SW846 8260
QLast Update : Fri Jul 27 02:16:51 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003673.D

Acq: 26 Jul 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

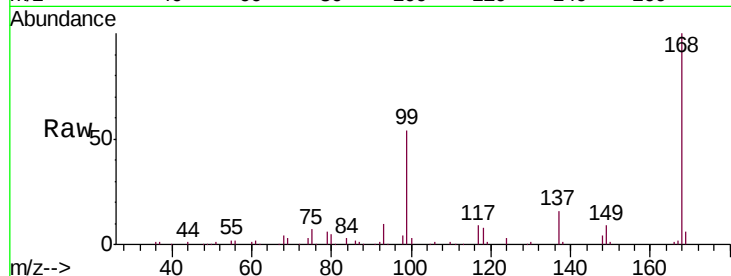
LC-SD-EB03-180719

Tot Ion:168 Resp: 91834

Ion Ratio Lower Upper

168 100

99 53.8 49.5 74.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

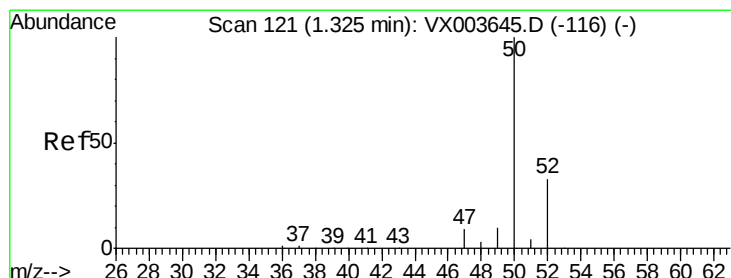
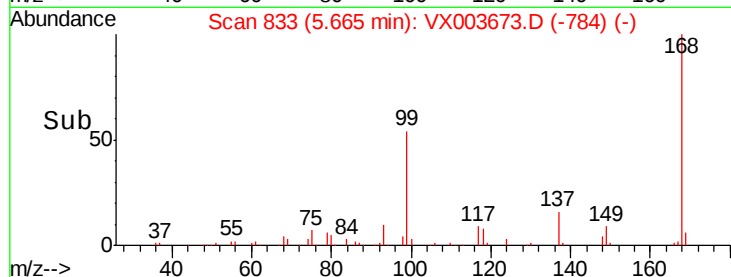
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.23 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003673.D

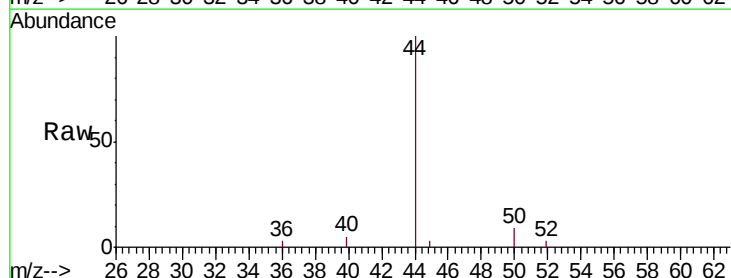
Acq: 26 Jul 2018 16:37

Tgt Ion: 50 Resp: 319

Ion Ratio Lower Upper

50 100

52 37.4 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

250

200

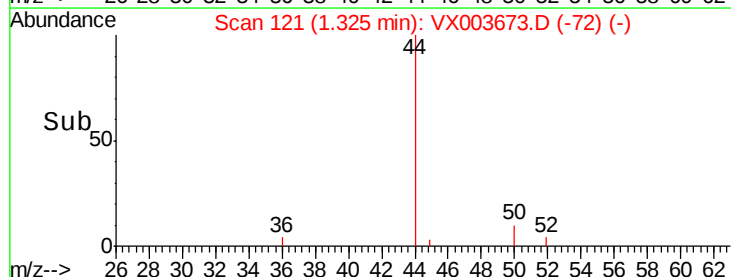
150

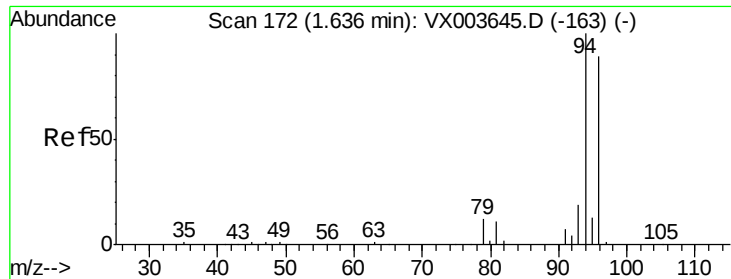
100

50

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.32 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003673.D

Acq: 26 Jul 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

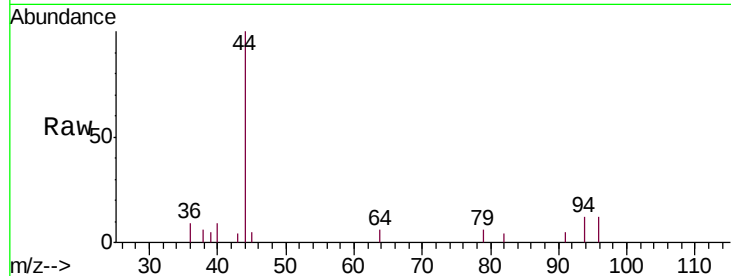
LC-SD-EB03-180719

Tot Ion: 94 Resp: 219

Ion Ratio Lower Upper

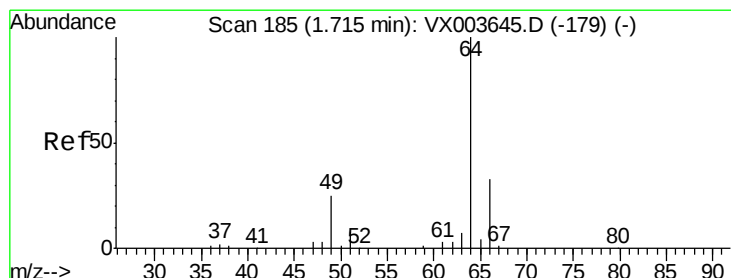
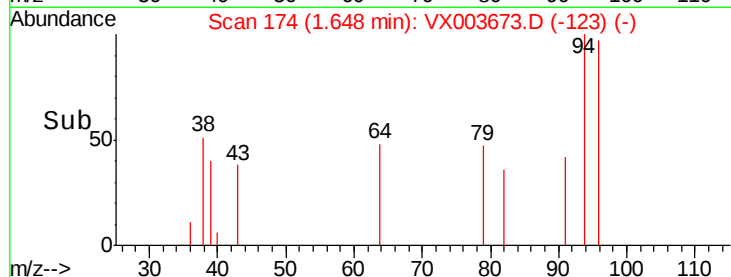
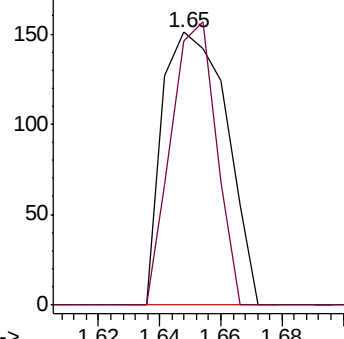
94 100

96 96.7 71.3 106.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 2.07 ug/l

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX003673.D

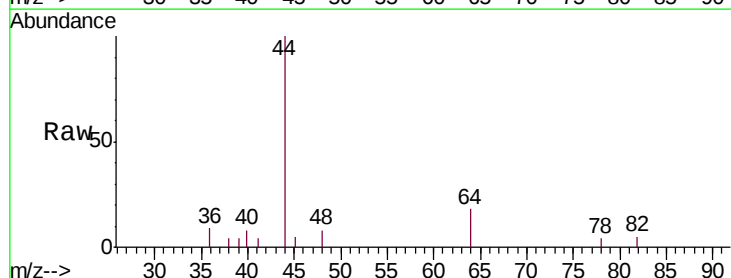
Acq: 26 Jul 2018 16:37

Tgt Ion: 64 Resp: 125

Ion Ratio Lower Upper

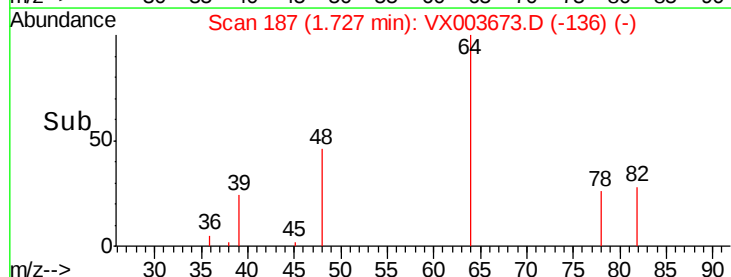
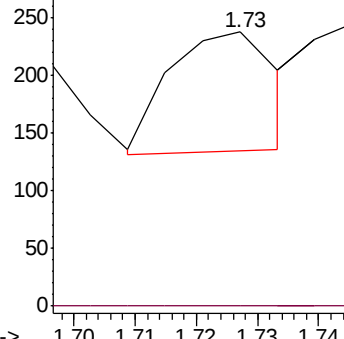
64 100

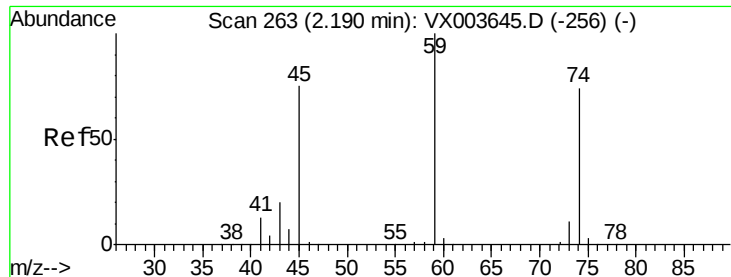
66 0.0 26.3 39.5#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.78 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX003673.D

Acq: 26 Jul 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

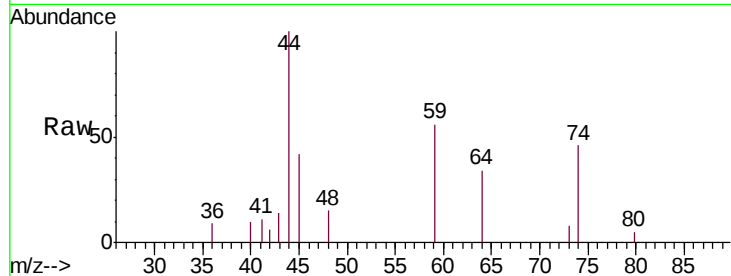
LC-SD-EB03-180719

Tot Ion: 74 Resp: 617

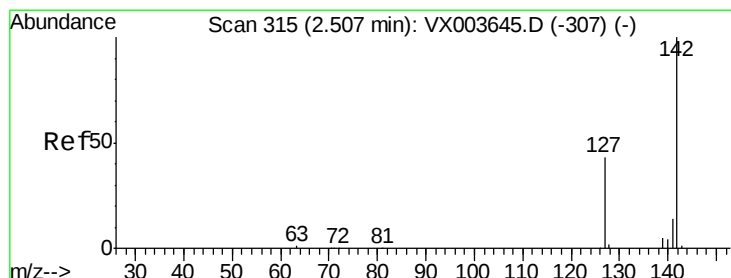
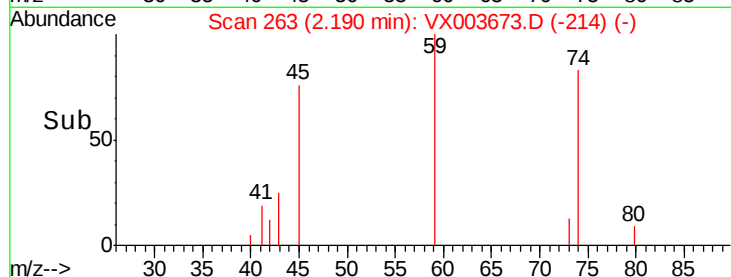
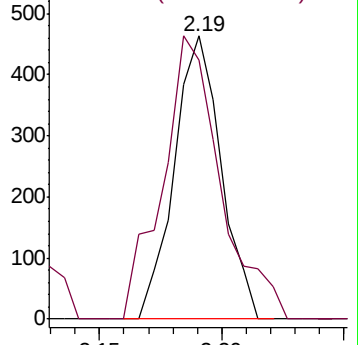
Ion Ratio Lower Upper

74 100

45 123.5 51.0 153.1



Abundance Ion 74.00 (73.70 to 74.70): VX003645.D (-256) (-)



#10

Methyl Iodide

Concen: 3.34 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003673.D

Acq: 26 Jul 2018 16:37

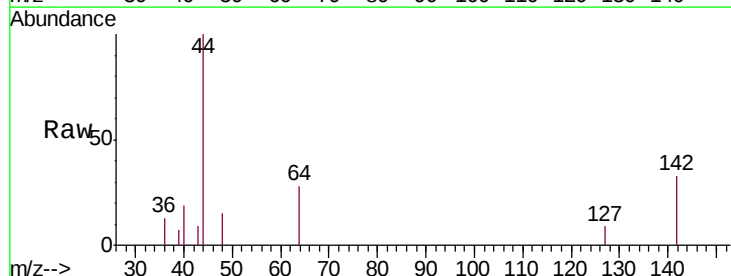
Tgt Ion: 142 Resp: 266

Ion Ratio Lower Upper

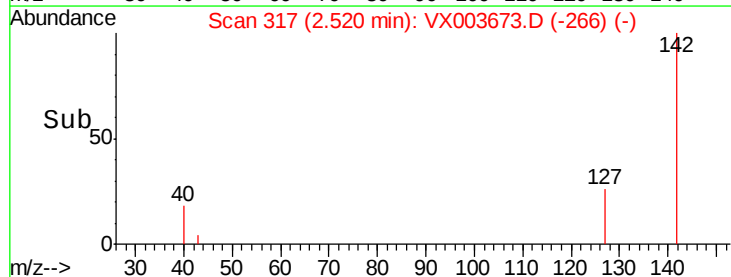
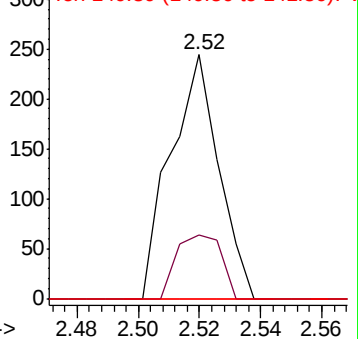
142 100

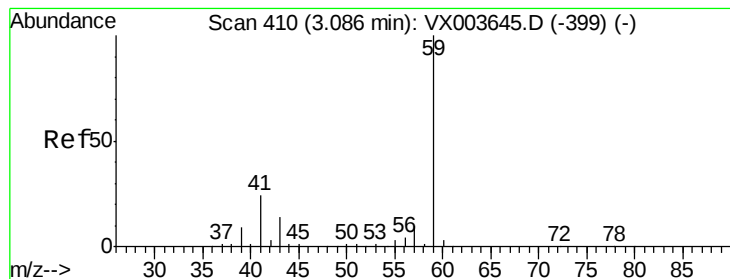
127 24.1 34.0 51.0#

141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): VX003645.D (-307) (-)



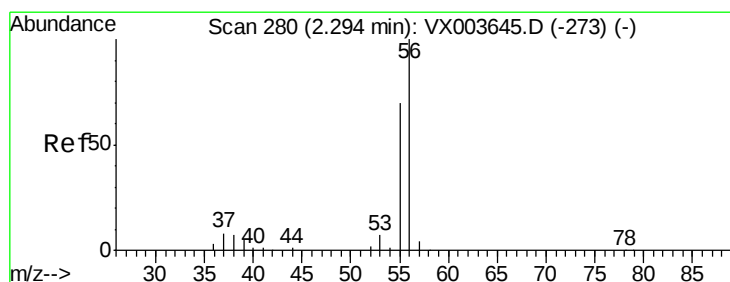
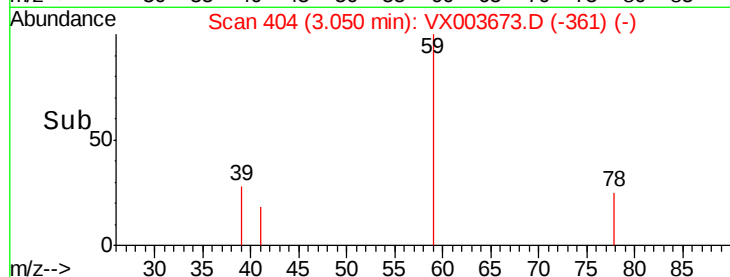
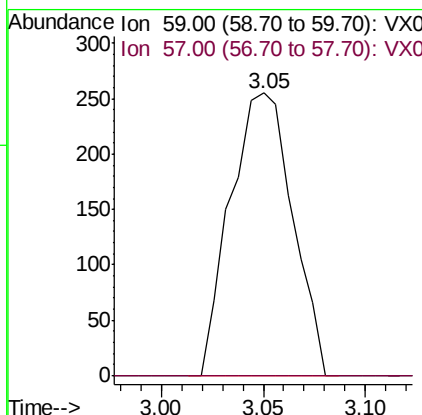
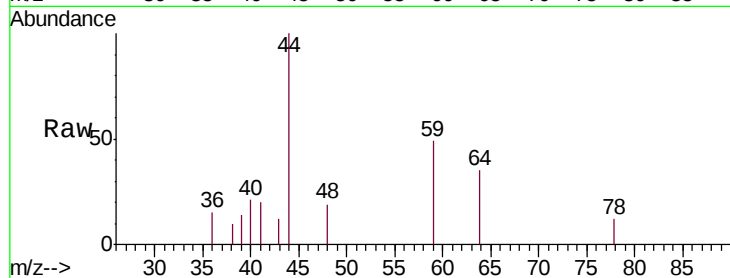


#11

Tert butyl alcohol
 Concen: 1.66 ug/l
 RT: 3.05 min Scan# 404
 Delta R.T. -0.04 min
 Lab File: VX003673.D
 Acq: 26 Jul 2018 16:37

Instrument :
 MSVOA_X
 ClientSampleId :
 LC-SD-EB03-180719

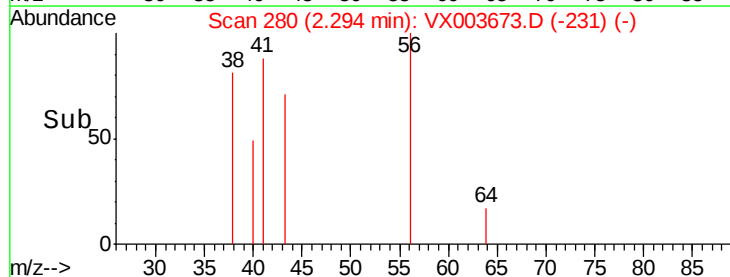
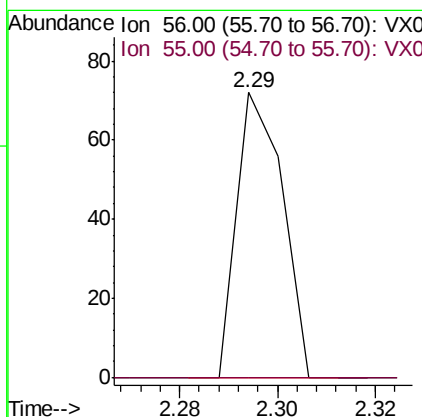
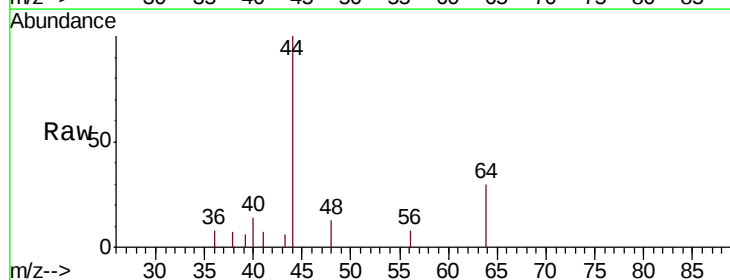
Tot Ion: 59 Resp: 541
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

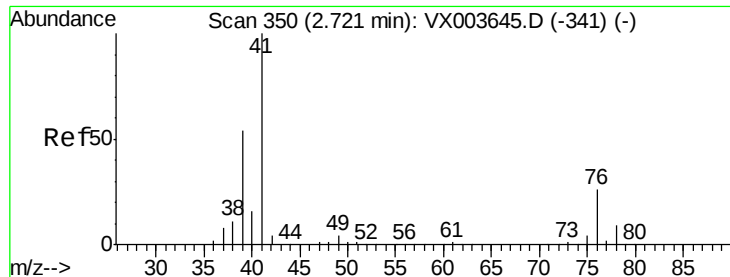


#13

Acrolein
 Concen: 4.31 ug/l
 RT: 2.29 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VX003673.D
 Acq: 26 Jul 2018 16:37

Tgt Ion: 56 Resp: 47
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.4 83.2#

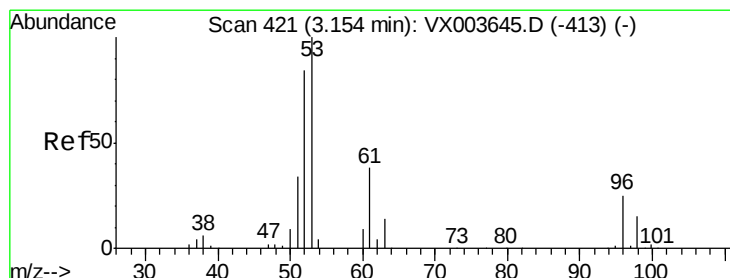
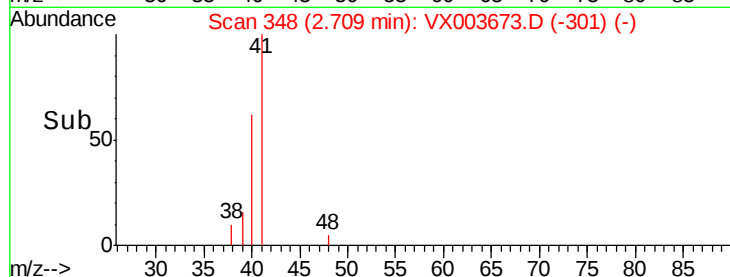
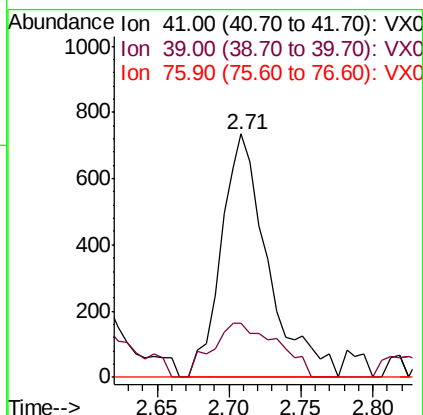
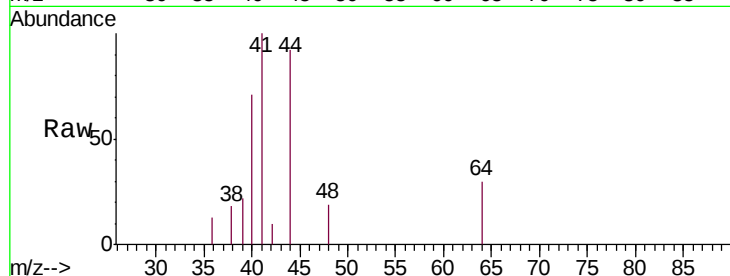




#14
Allvl chloride
Concen: 0.75 ug/l
RT: 2.71 min Scan# 348
Delta R.T. -0.01 min
Lab File: VX003673.D
Acq: 26 Jul 2018 16:37

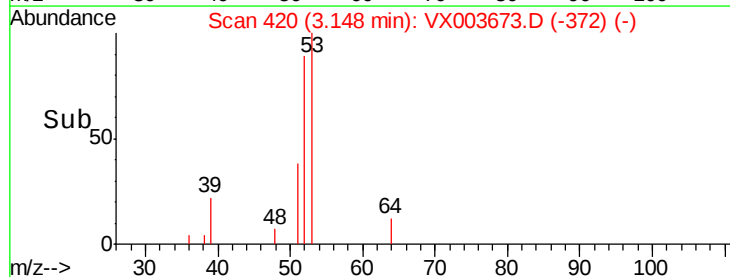
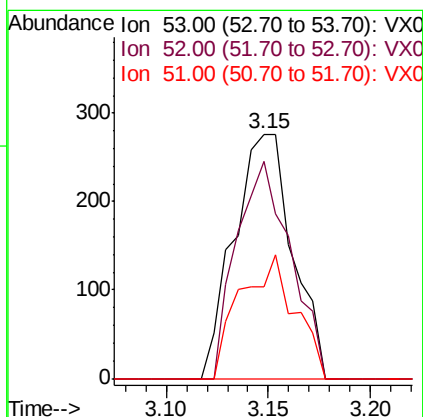
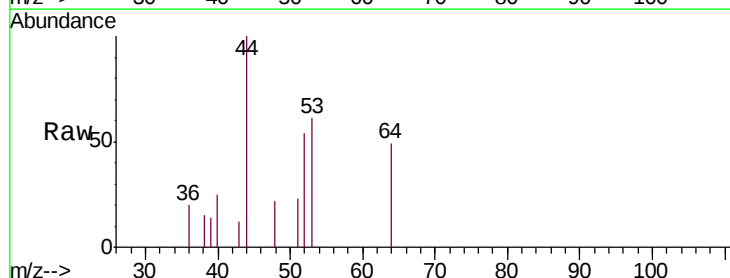
Instrument :
MSVOA_X
ClientSampleId :
LC-SD-EB03-180719

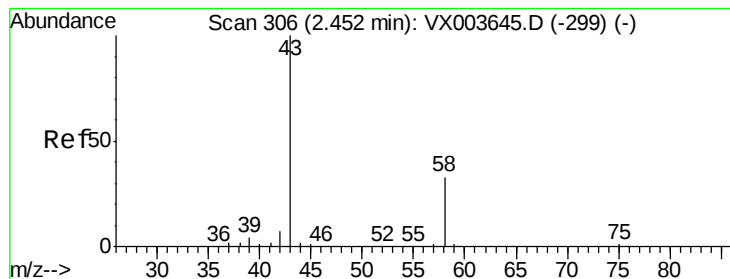
Tot Ion: 41 Resp: 1661
Ion Ratio Lower Upper
41 100
39 30.8 45.3 67.9#
76 0.0 23.8 35.6#



#15
Acrylonitrile
Concen: 0.71 ug/l
RT: 3.15 min Scan# 420
Delta R.T. -0.01 min
Lab File: VX003673.D
Acq: 26 Jul 2018 16:37

Tgt Ion: 53 Resp: 555
Ion Ratio Lower Upper
53 100
52 81.4 66.1 99.1
51 46.8 28.2 42.4#





#16

Acetone

Concen: 7.36 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX003673.D

Acq: 26 Jul 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

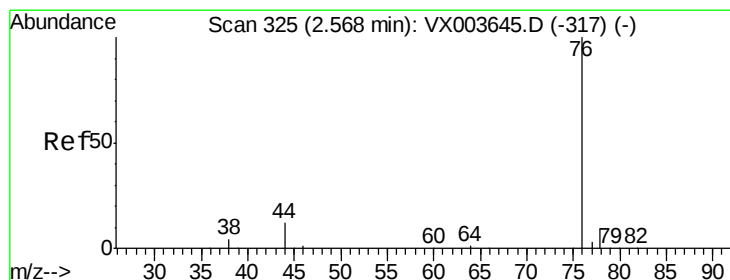
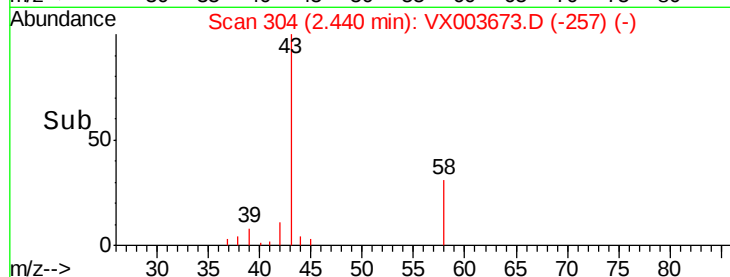
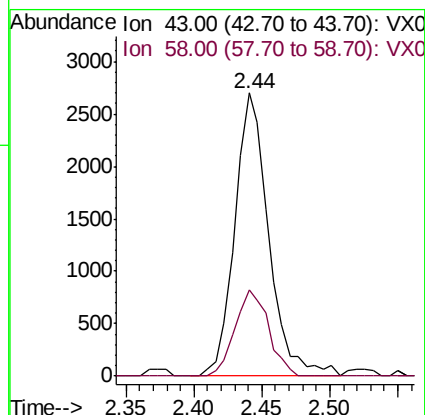
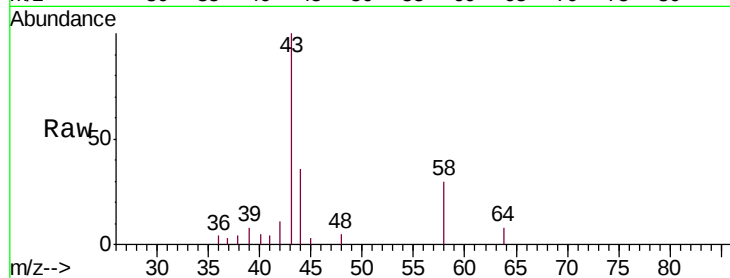
LC-SD-EB03-180719

Tot Ion: 43 Resp: 4701

Ion Ratio Lower Upper

43 100

58 30.3 26.1 39.1



#17

Carbon Disulfide

Concen: 0.30 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003673.D

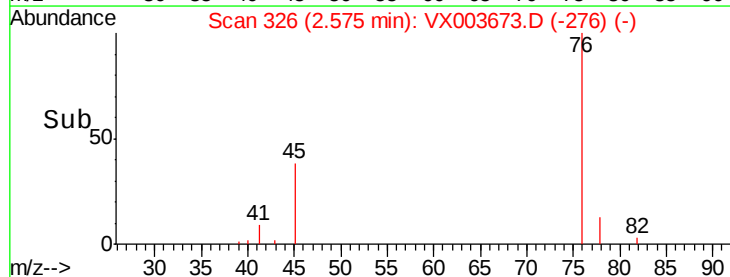
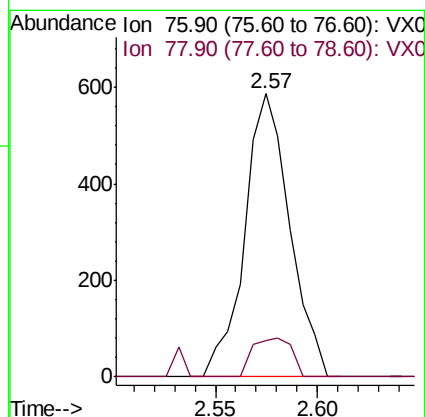
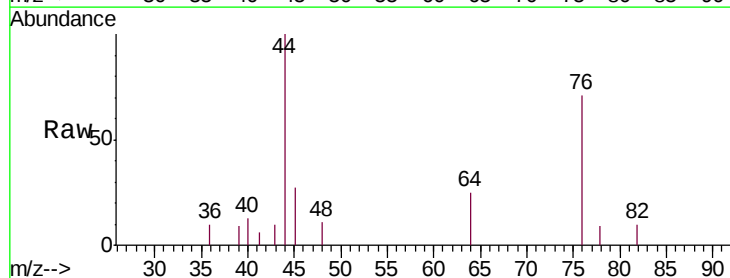
Acq: 26 Jul 2018 16:37

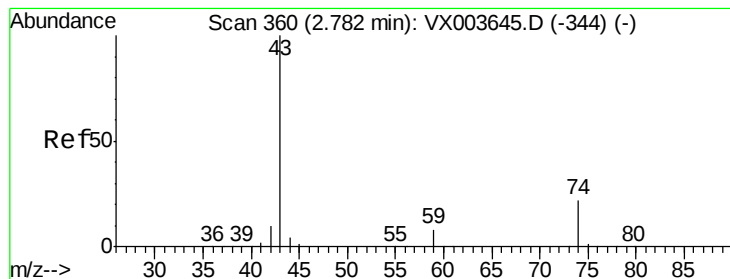
Tgt Ion: 76 Resp: 903

Ion Ratio Lower Upper

76 100

78 12.8 7.4 11.0#





#18

Methvl Acetate

Concen: 0.20 ug/l

RT: 2.78 min Scan# 359

Delta R.T. -0.01 min

Lab File: VX003673.D

Acq: 26 Jul 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

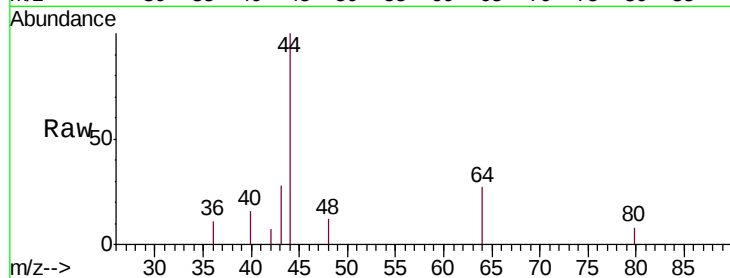
LC-SD-EB03-180719

Tot Ion: 43 Resp: 388

Ion Ratio Lower Upper

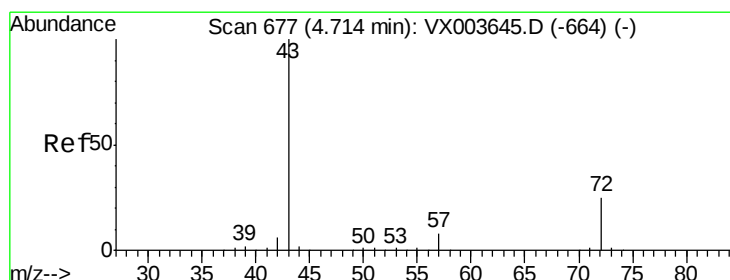
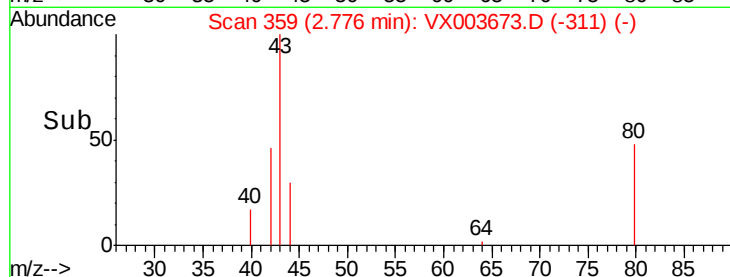
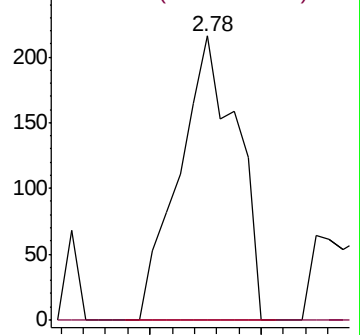
43 100

74 0.0 17.8 26.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#25

2-Butanone

Concen: 0.87 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX003673.D

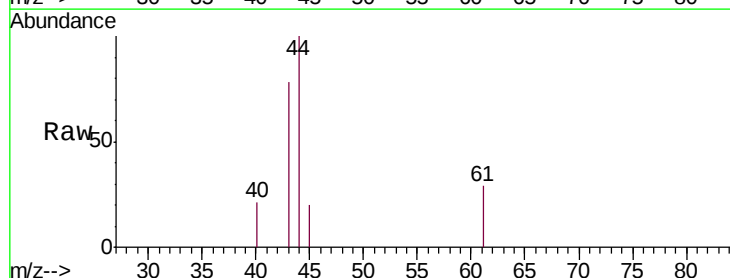
Acq: 26 Jul 2018 16:37

Tgt Ion: 43 Resp: 861

Ion Ratio Lower Upper

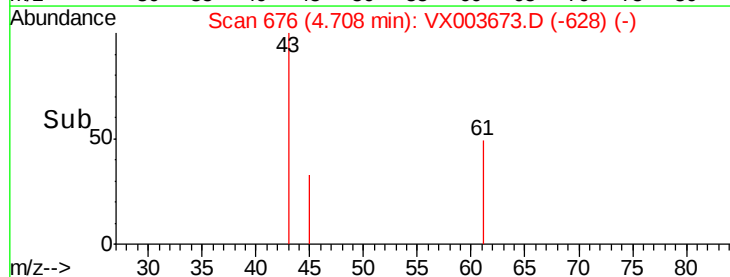
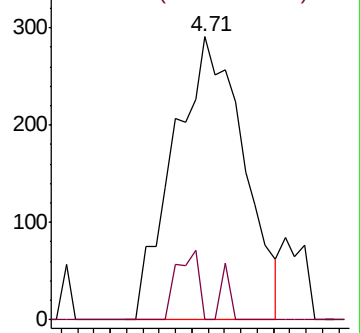
43 100

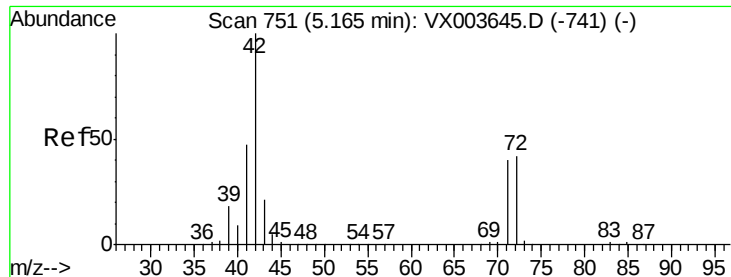
72 0.0 20.2 30.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

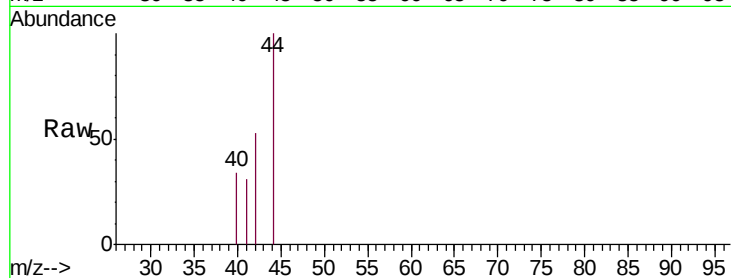




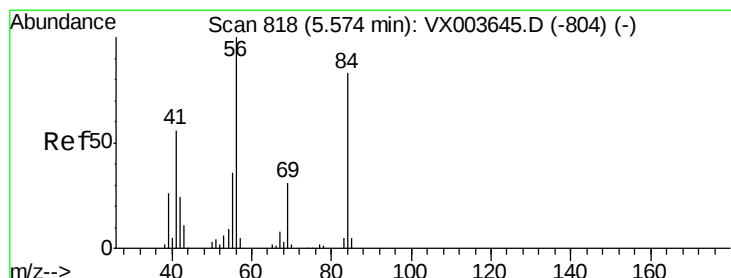
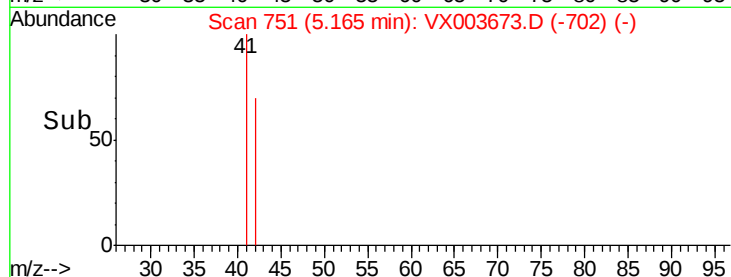
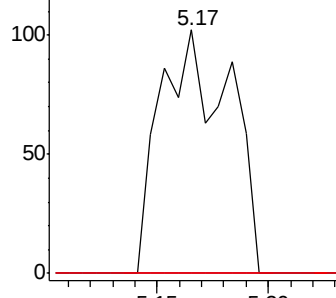
#29
Tetrahydrofuran
Concen: 0.34 ug/l
RT: 5.17 min Scan# 751
Delta R.T. 0.00 min
Lab File: VX003673.D
Acq: 26 Jul 2018 16:37

Instrument :
MSVOA_X
ClientSampleId :
LC-SD-EB03-180719

Tot Ion: 42 Resp: 220
Ion Ratio Lower Upper
42 100
72 0.0 33.4 50.0#
71 0.0 31.0 46.6#

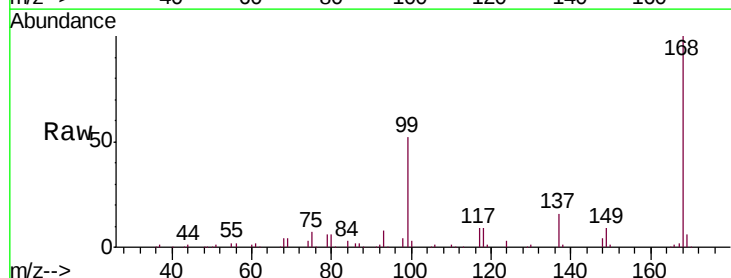


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

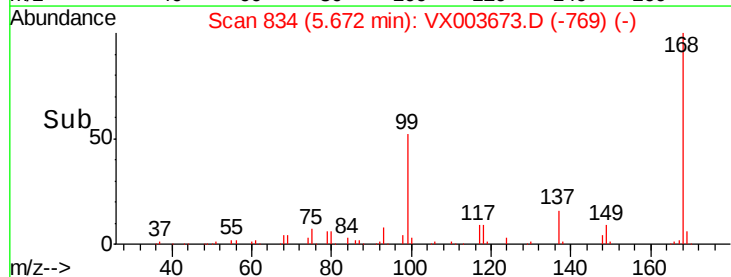
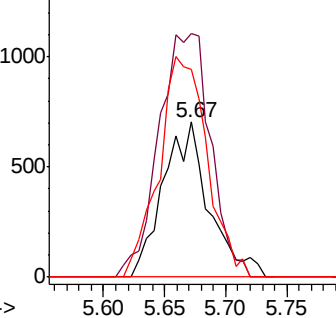


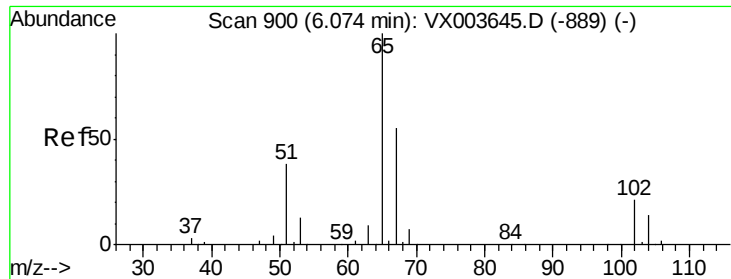
#31
Cyclohexane
Concen: 1.00 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.10 min
Lab File: VX003673.D
Acq: 26 Jul 2018 16:37

Tgt Ion: 56 Resp: 1831
Ion Ratio Lower Upper
56 100
69 157.4 25.0 37.6#
84 134.0 66.5 99.7#



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

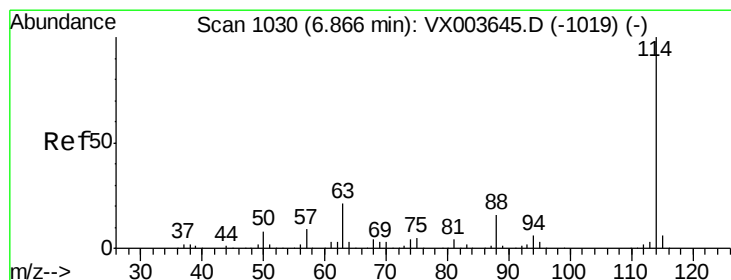
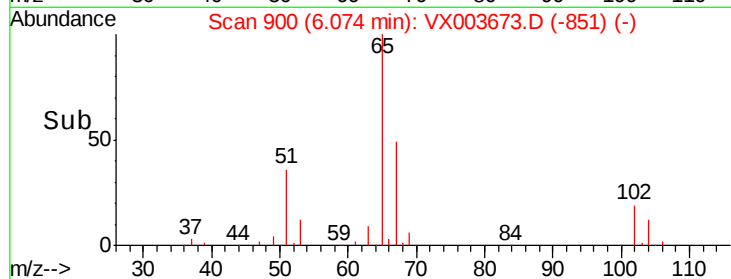
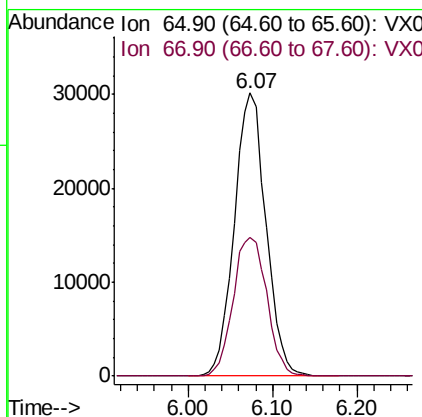
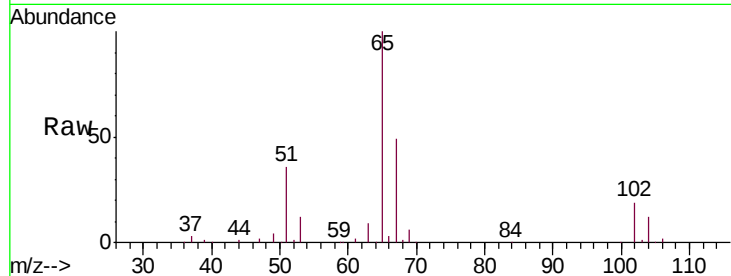




#33
 1,2-Dichloroethane-d4
 Concen: 55.98 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX003673.D
 Acq: 26 Jul 2018 16:37

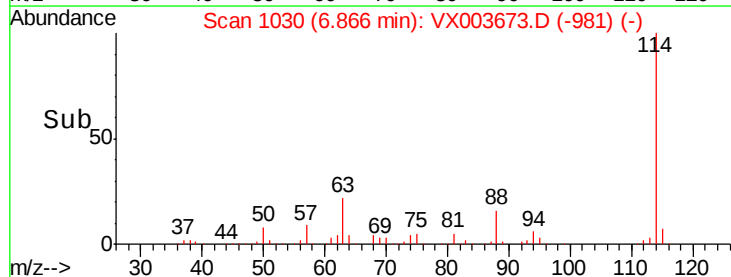
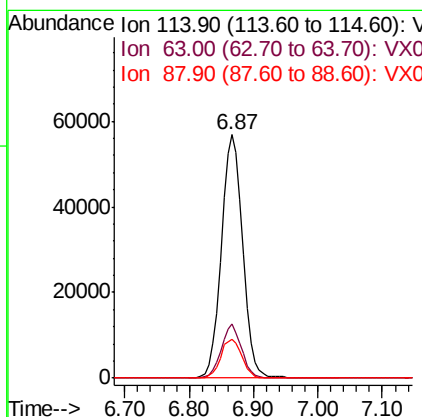
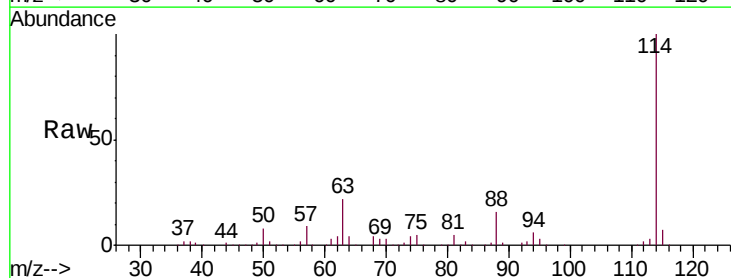
Instrument :
 MSVOA_X
 ClientSampleId :
 LC-SD-EB03-180719

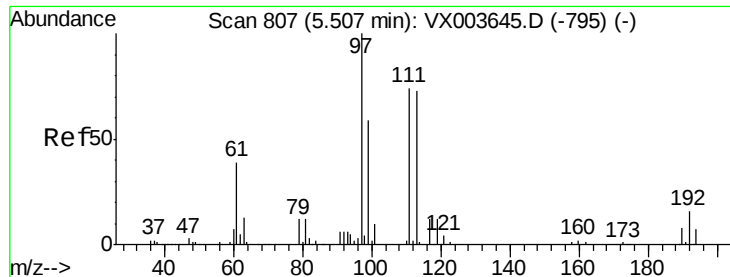
Tot Ion: 65 Resp: 76147
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003673.D
 Acq: 26 Jul 2018 16:37

Tgt Ion: 114 Resp: 133182
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 41.0
 88 16.1 0.0 31.8





#35

Dibromofluoromethane

Concen: 57.17 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX003673.D

Acq: 26 Jul 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

LC-SD-EB03-180719

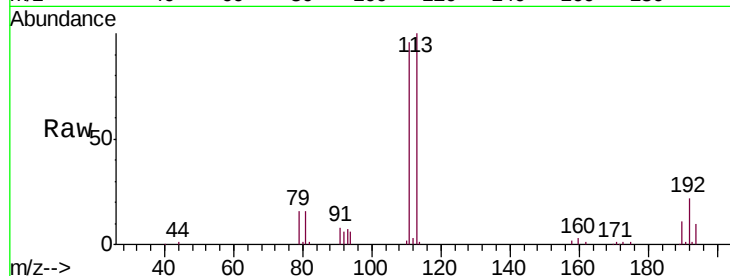
Tot Ion:113 Resp: 62240

Ion Ratio Lower Upper

113 100

111 102.7 81.2 121.8

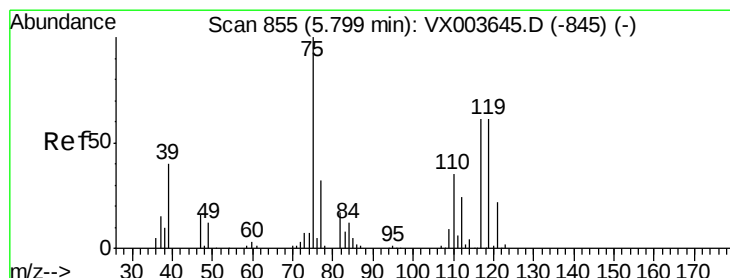
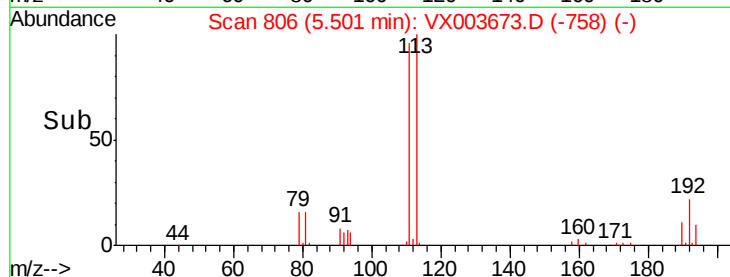
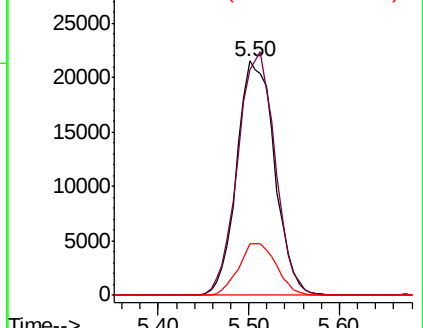
192 22.2 18.2 27.4



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: 4.08 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003673.D

Acq: 26 Jul 2018 16:37

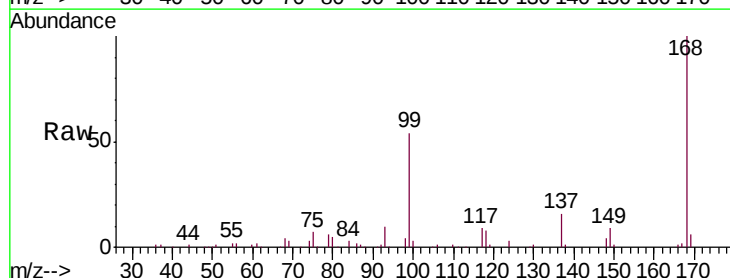
Tgt Ion: 75 Resp: 6346

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.1#

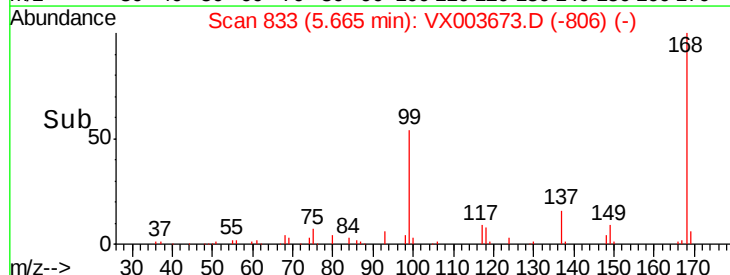
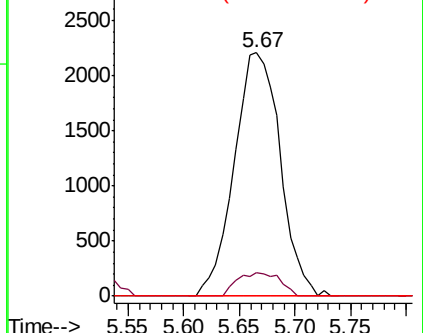
77 0.0 25.1 37.7#

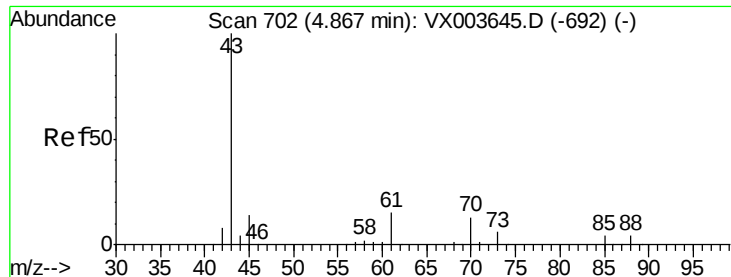


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 0.89 ug/l

RT: 4.87 min Scan# 702

Delta R.T. 0.00 min

Lab File: VX003673.D

Acq: 26 Jul 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

LC-SD-EB03-180719

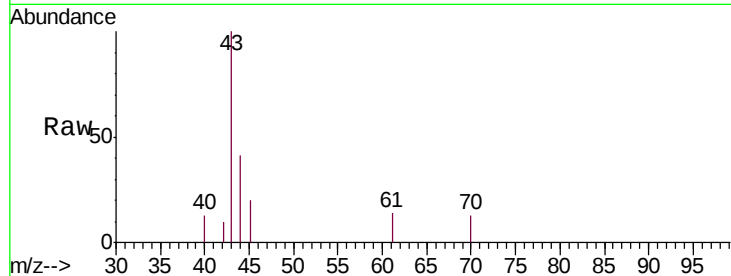
Tot Ion: 43 Resp: 1664

Ion Ratio Lower Upper

43 100

61 23.3 11.9 17.9#

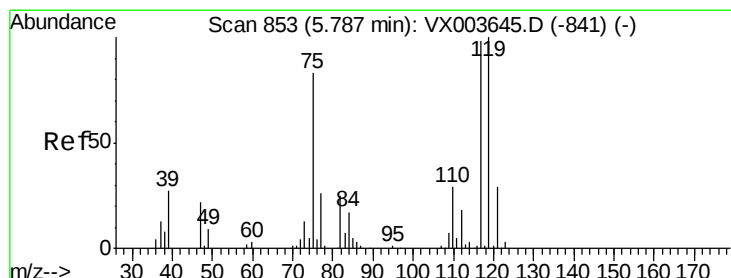
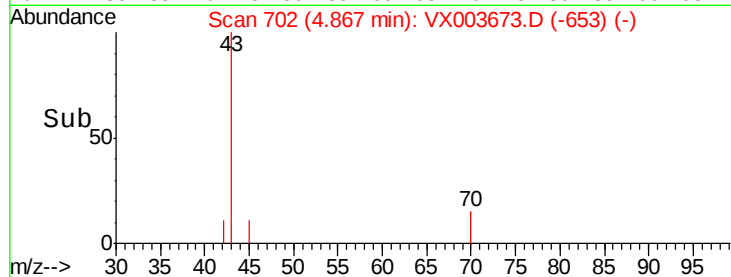
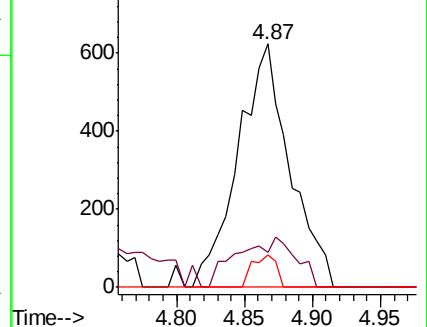
70 6.2 8.6 12.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 5.67 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003673.D

Acq: 26 Jul 2018 16:37

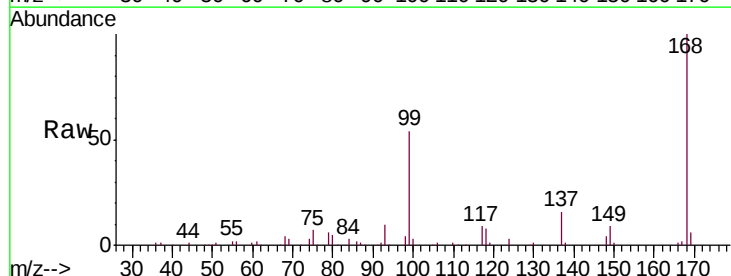
Tgt Ion: 117 Resp: 8511

Ion Ratio Lower Upper

117 100

119 5.7 81.0 121.4#

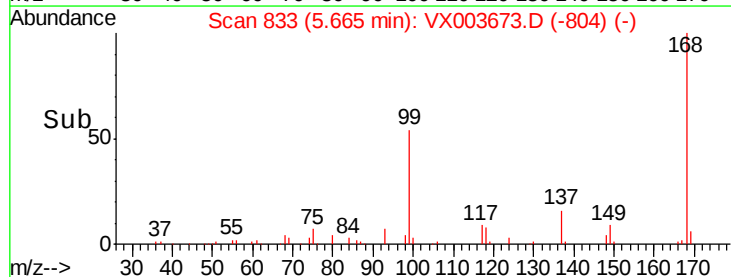
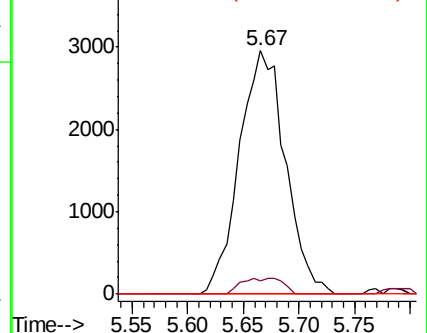
121 0.0 23.7 35.5#

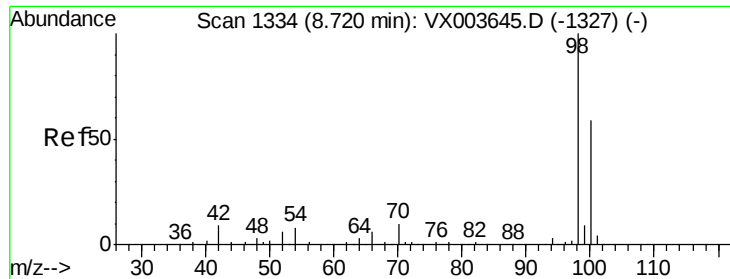


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

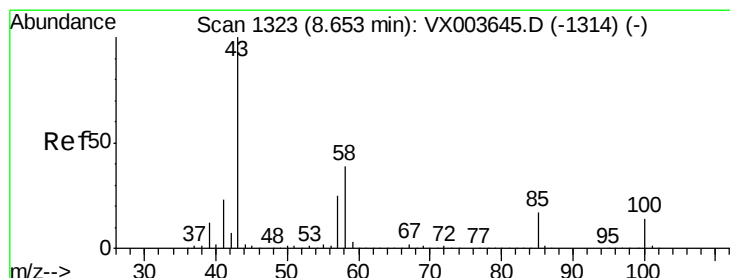
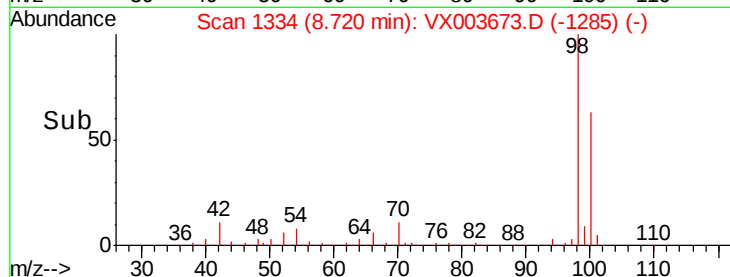
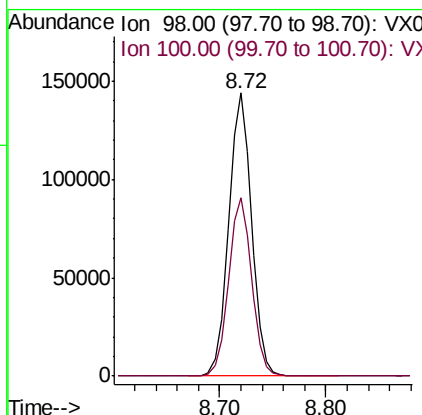
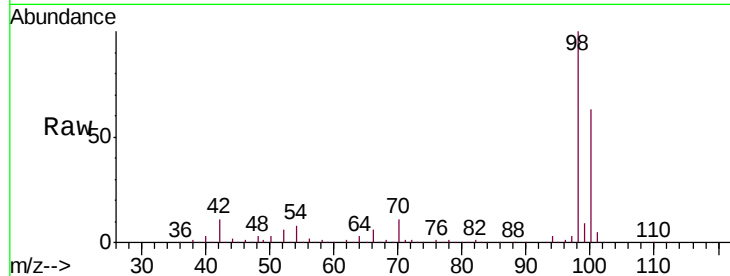




#50
Toluene-d8
Concen: 52.28 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003673.D
Acq: 26 Jul 2018 16:37

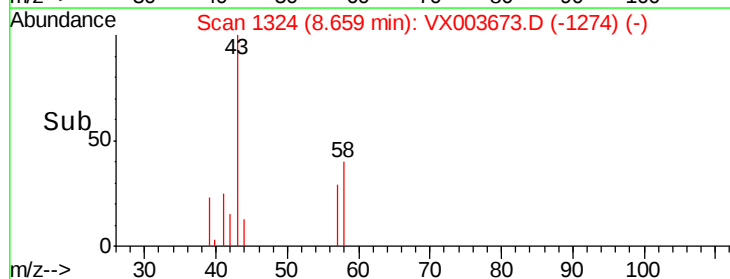
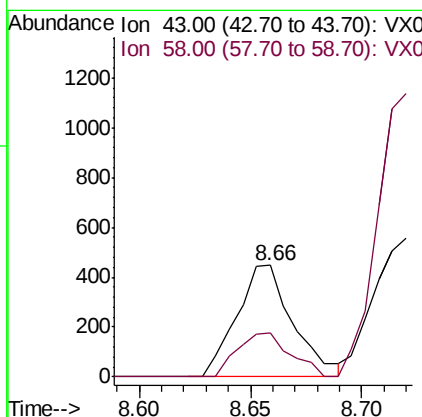
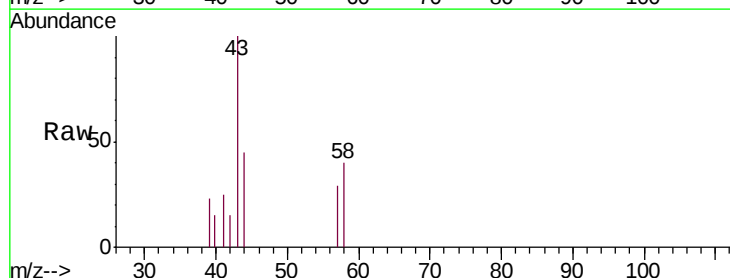
Instrument :
MSVOA_X
ClientSampleId :
LC-SD-EB03-180719

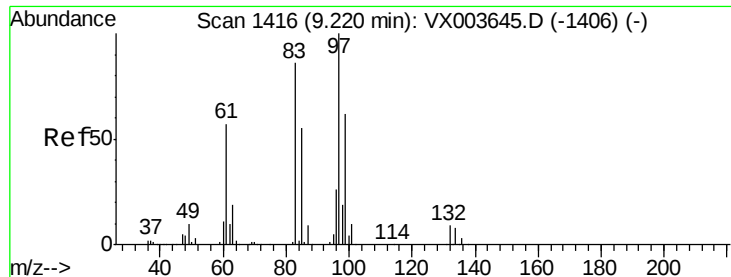
Tot Ion: 98 Resp: 217242
Ion Ratio Lower Upper
98 100
100 63.5 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.43 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VX003673.D
Acq: 26 Jul 2018 16:37

Tgt Ion: 43 Resp: 789
Ion Ratio Lower Upper
43 100
58 37.1 31.5 47.3

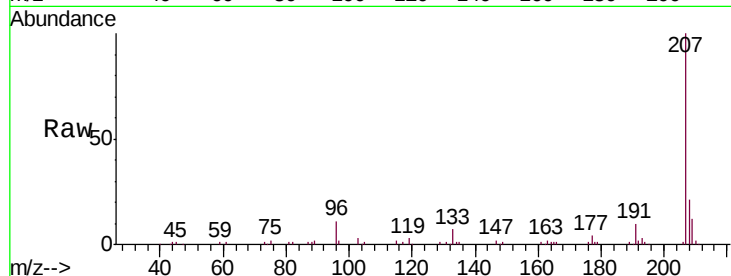




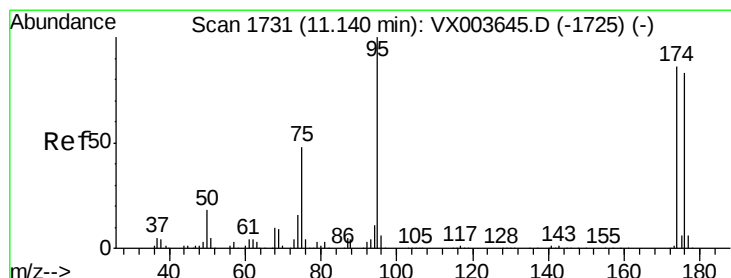
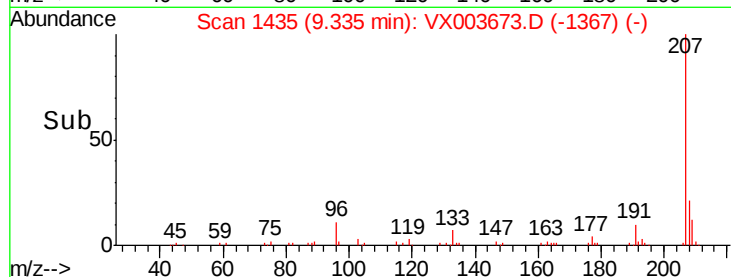
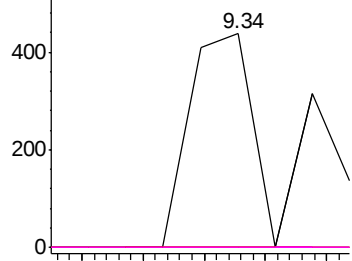
#55
 1,1,2-Trichloroethane
 Concen: 0.26 ug/l
 RT: 9.34 min Scan# 1435
 Delta R.T. 0.12 min
 Lab File: VX003673.D
 Acq: 26 Jul 2018 16:37

Instrument :
 MSVOA_X
 ClientSampleId :
 LC-SD-EB03-180719

Tot Ion: 97 Resp: 310
 Ion Ratio Lower Upper
 97 100
 83 0.0 68.7 103.1#
 85 0.0 43.7 65.5#
 99 0.0 49.6 74.4#

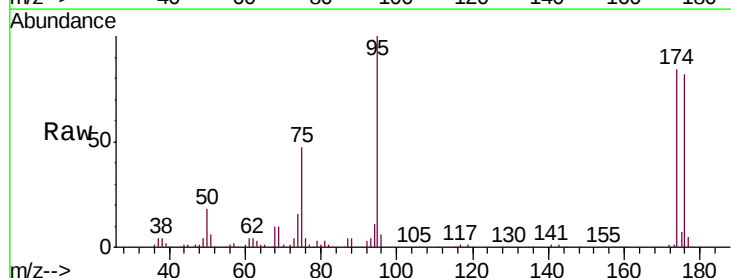


Abundance Ion 96.90 (96.60 to 97.60): VX0
 Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 98.90 (98.60 to 99.60): VX0

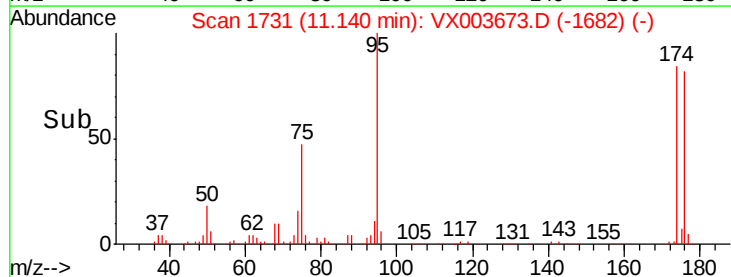
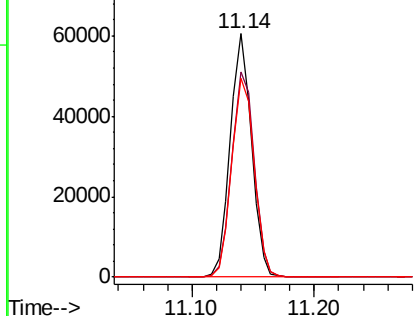


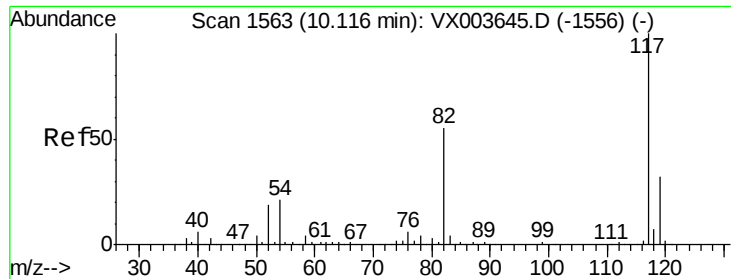
#62
 4-Bromofluorobenzene
 Concen: 47.88 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.00 min
 Lab File: VX003673.D
 Acq: 26 Jul 2018 16:37

Tgt Ion: 95 Resp: 72558
 Ion Ratio Lower Upper
 95 100
 174 89.1 0.0 179.0
 176 85.9 0.0 173.0



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: VX003673.D

Acq: 26 Jul 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

LC-SD-EB03-180719

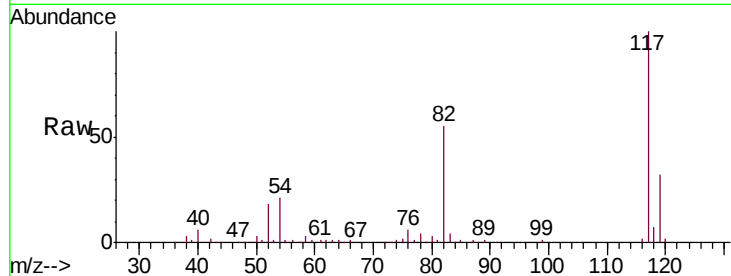
Tot Ion:117 Resp: 123881

Ion Ratio Lower Upper

117 100

82 55.0 44.3 66.5

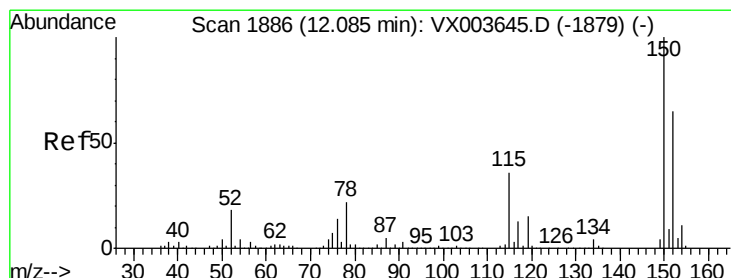
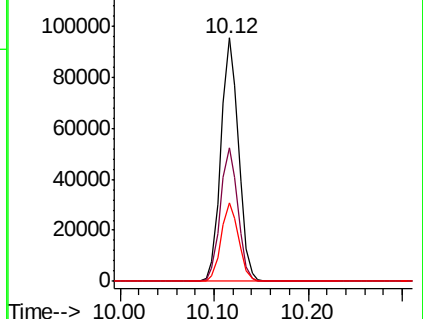
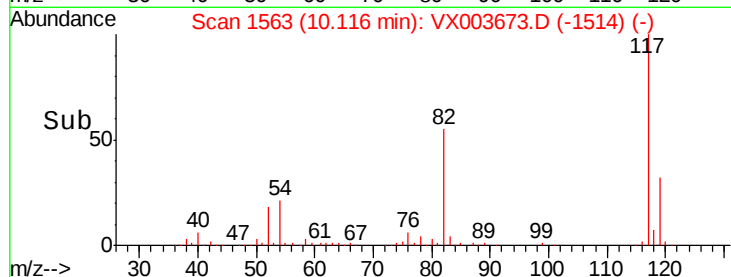
119 32.4 25.6 38.4



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: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003673.D

Acq: 26 Jul 2018 16:37

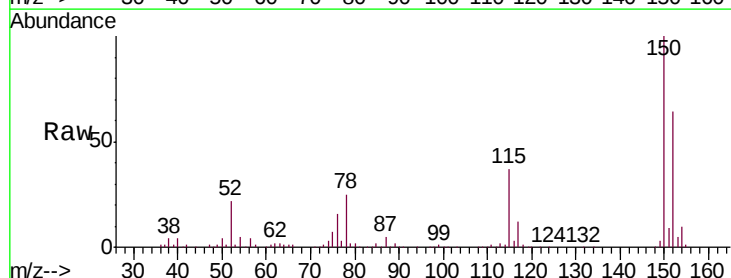
Tgt Ion:152 Resp: 63910

Ion Ratio Lower Upper

152 100

115 56.3 40.0 119.9

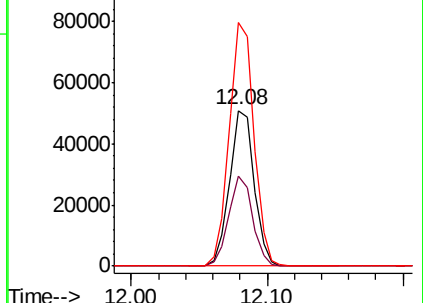
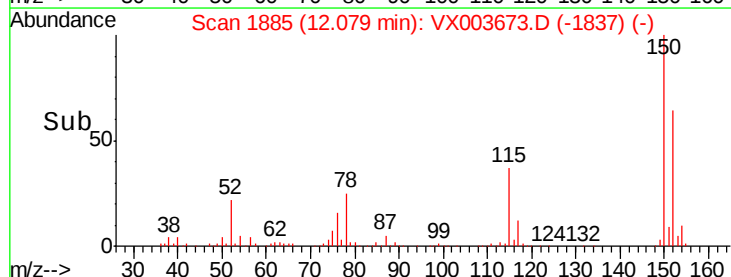
150 156.9 0.0 348.4

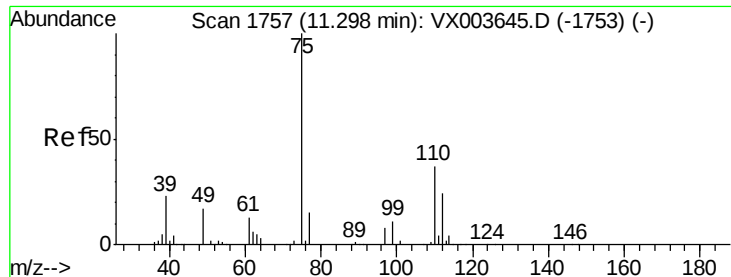


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

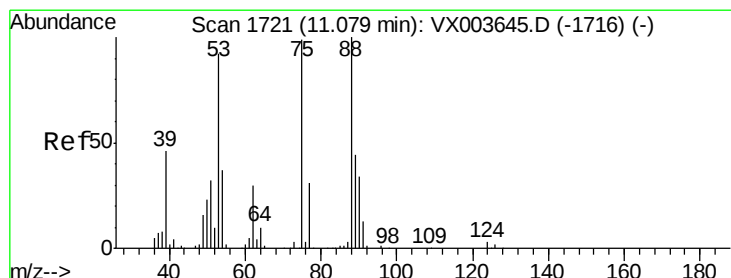
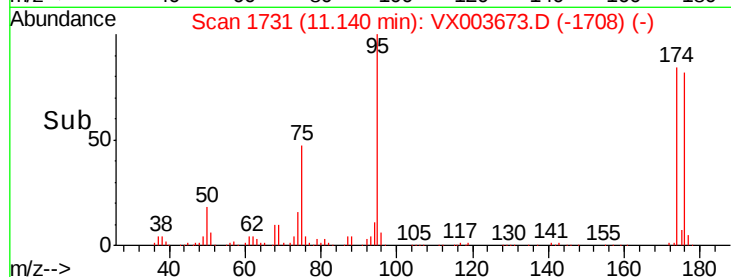
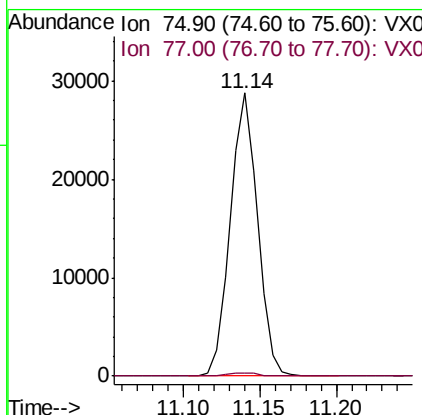
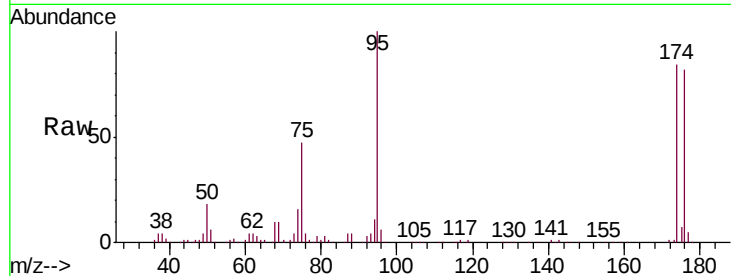




#76
 1,2,3-Trichloropropane
 Concen: 26.44 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003673.D
 Acq: 26 Jul 2018 16:37

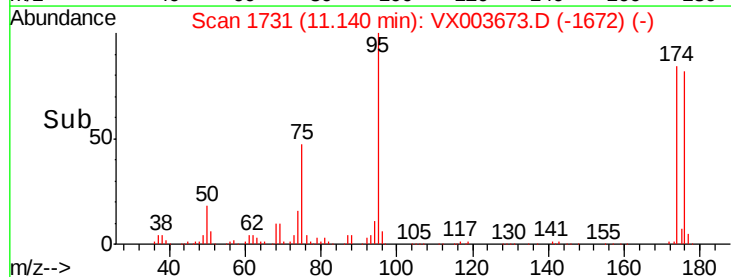
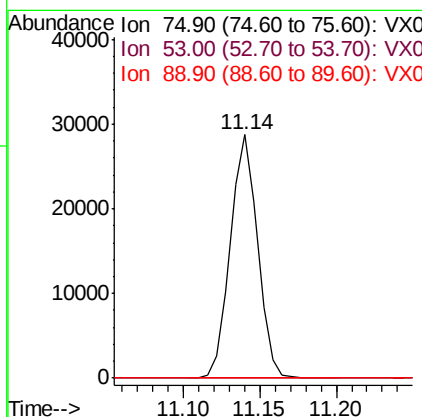
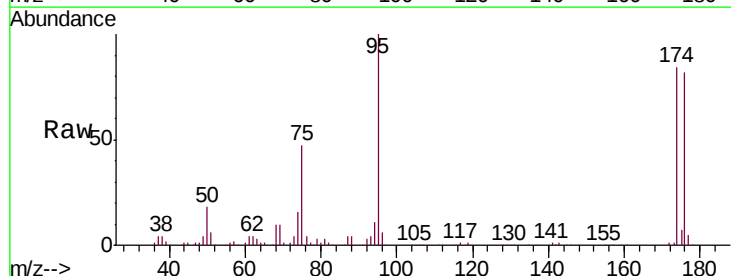
Instrument :
 MSVOA_X
 ClientSampleId :
 LC-SD-EB03-180719

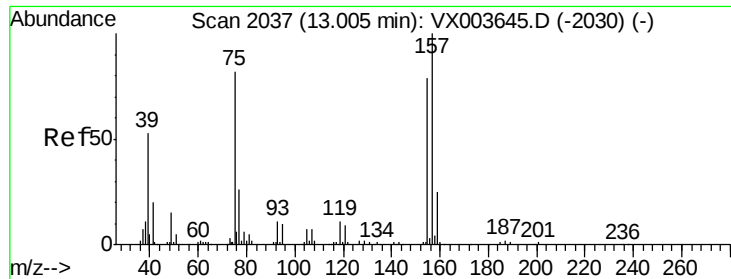
Tot Ion: 75 Resp: 35449
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.6 64.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 81.93 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003673.D
 Acq: 26 Jul 2018 16:37

Tgt Ion: 75 Resp: 35449
 Ion Ratio Lower Upper
 75 100
 53 0.1 77.8 116.8#
 89 0.0 36.6 54.8#

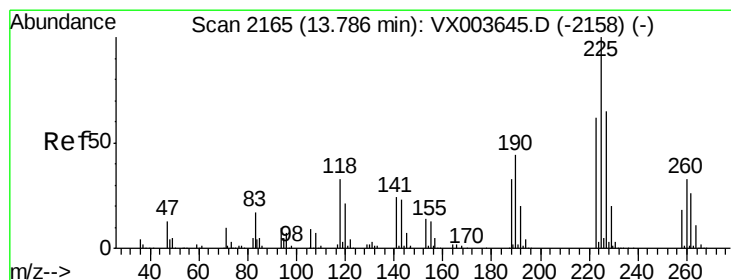
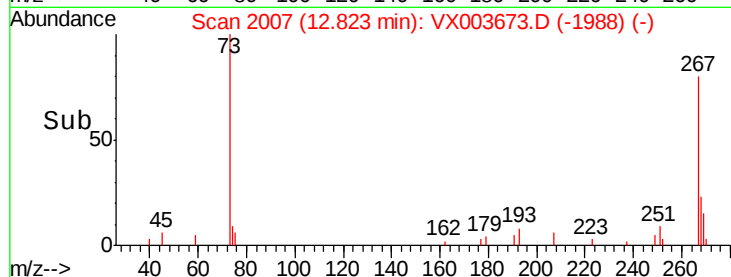
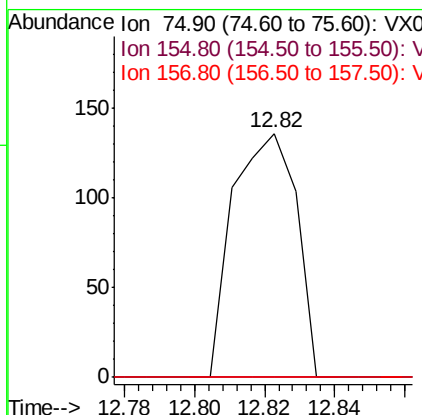
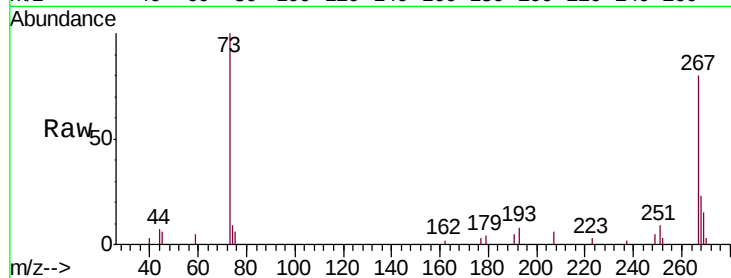




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.51 ug/l
 RT: 12.82 min Scan# 2007
 Delta R.T. -0.18 min
 Lab File: VX003673.D
 Acq: 26 Jul 2018 16:37

Instrument :
 MSVOA_X
 ClientSampleId :
 LC-SD-EB03-180719

Tot Ion: 75 Resp: 171
 Ion Ratio Lower Upper
 75 100
 155 0.0 46.1 138.3#
 157 0.0 59.7 179.0#



#94
 Hexachlorobutadiene
 Concen: 0.22 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VX003673.D
 Acq: 26 Jul 2018 16:37

Tgt Ion: 225 Resp: 163
 Ion Ratio Lower Upper
 225 100
 223 51.5 30.9 92.5
 227 75.5 31.9 95.7

