

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX040419\
 Data File : VX008643.D
 Acq On : 04 Apr 2019 18:04
 Operator : JC/SP
 Sample : K2275-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S8-EB-2019-1

Quant Time: Apr 05 07:09:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	215763	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	361772	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	313445	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	132240	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	149706	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	
35) Dibromofluoromethane	5.50	113	109731	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	
50) Toluene-d8	8.71	98	451351	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
62) 4-Bromofluorobenzene	11.13	95	153154	46.89	ug/l	0.00
Spiked Amount			Recovery	=	93.78%	

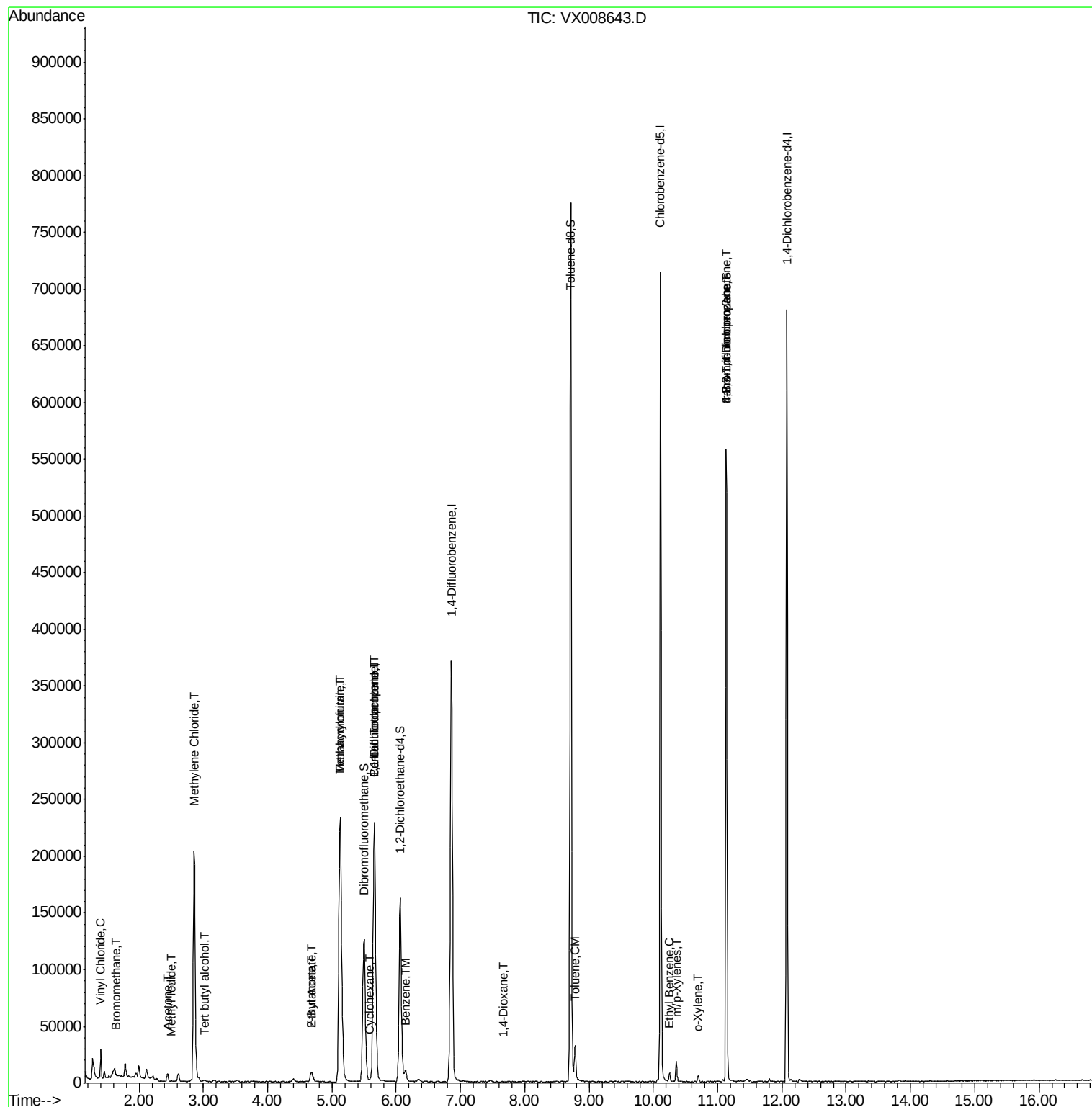
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	329	Below Cal	#	71
4) Vinyl Chloride	1.40	62	701	0.209	ug/l	99
5) Bromomethane	1.64	94	670	2.275	ug/l	91
6) Chloroethane	1.61	64	5453	Below Cal	#	58
10) Methyl Iodide	2.51	142	188	4.083	ug/l #	72
11) Tert butyl alcohol	3.02	59	1368	1.857	ug/l #	80
16) Acetone	2.44	43	7076	3.904	ug/l	91
17) Carbon Disulfide	2.57	76	929	Below Cal	#	82
20) Methylene Chloride	2.85	84	93155	30.703	ug/l	96
25) 2-Butanone	4.68	43	15837	5.528	ug/l	93
28) Bromochloromethane	5.01	49	24	Below Cal	#	22
29) Tetrahydrofuran	5.13	42	239833	126.130	ug/l	99
31) Cyclohexane	5.58	56	1351	0.248	ug/l #	75
36) 1,1-Dichloropropene	5.67	75	18258	4.617	ug/l #	50
37) Ethyl Acetate	4.68	43	15837	3.000	ug/l #	70
38) Carbon Tetrachloride	5.66	117	21276	6.500	ug/l #	17
40) Benzene	6.15	78	10421	0.885	ug/l	97
41) Methacrylonitrile	5.13	41	129743	42.761	ug/l #	47
49) 1,4-Dioxane	7.67	88	21	0.268	ug/l #	1
52) Toluene	8.79	92	10819	1.558	ug/l	99
67) Ethyl Benzene	10.26	91	4091	0.316	ug/l	95
68) m/p-Xylenes	10.36	106	4225	0.907	ug/l	97
69) o-Xylene	10.70	106	1252	0.277	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	77082	21.219	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	77082	58.490	ug/l #	9

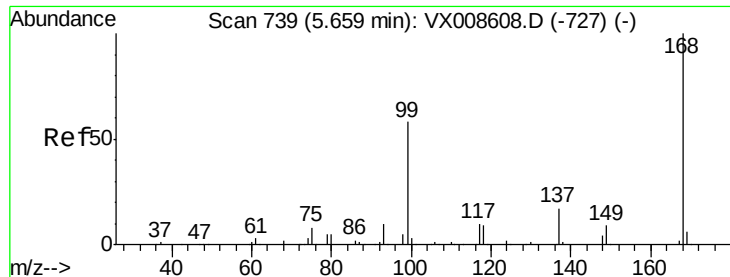
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Apr 04 04:47:41 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008643.D

Acq: 04 Apr 2019 18:04

Instrument :

MSVOA_X

ClientSampleId :

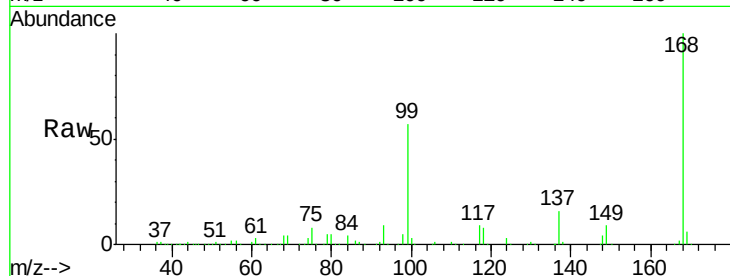
S8-EB-2019-1

Tgt Ion:168 Resp: 215763

Ion Ratio Lower Upper

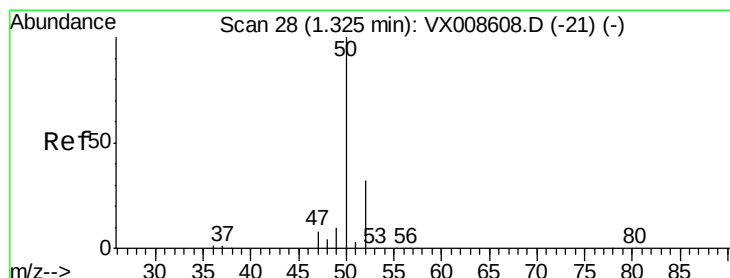
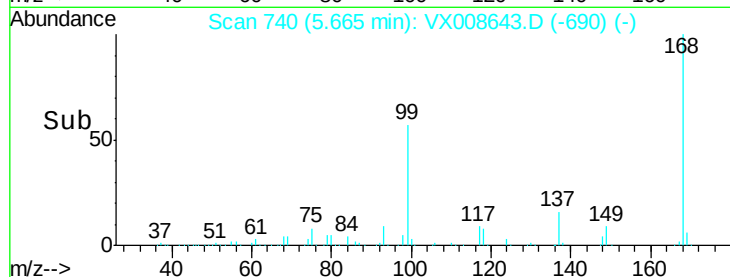
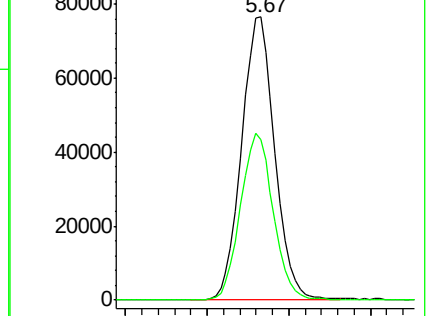
168 100

99 56.6 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008643.D

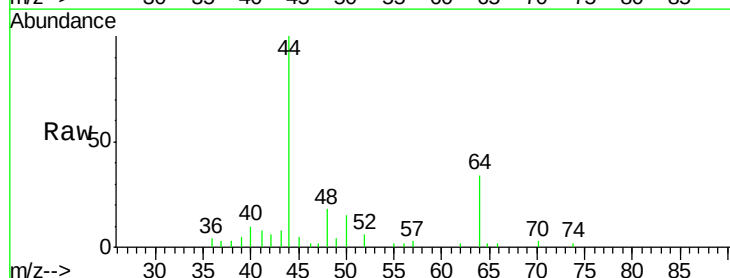
Acq: 04 Apr 2019 18:04

Tgt Ion: 50 Resp: 329

Ion Ratio Lower Upper

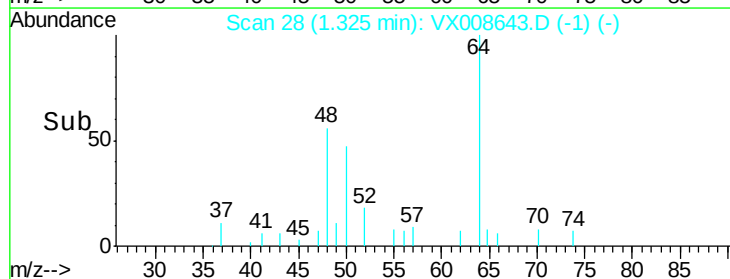
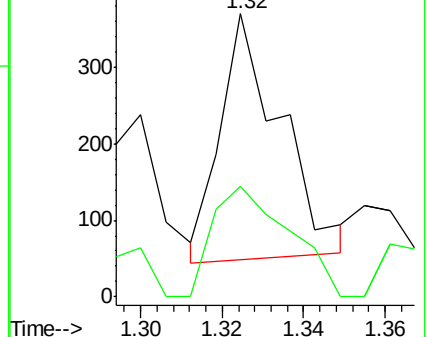
50 100

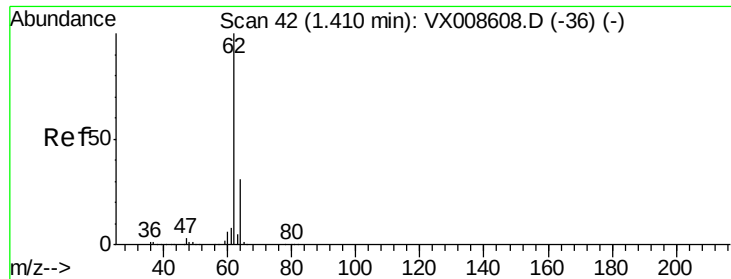
52 48.7 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.209 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX008643.D

Acq: 04 Apr 2019 18:04

Instrument :

MSVOA_X

ClientSampleId :

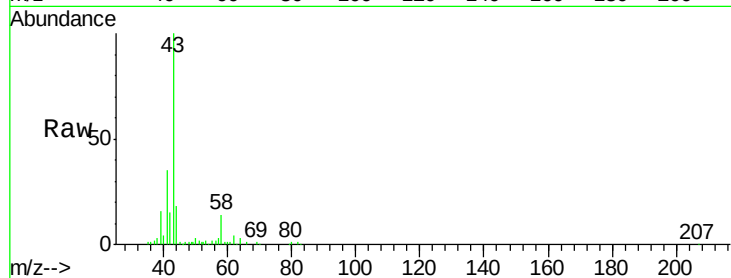
S8-EB-2019-1

Tgt Ion: 62 Resp: 701

Ion Ratio Lower Upper

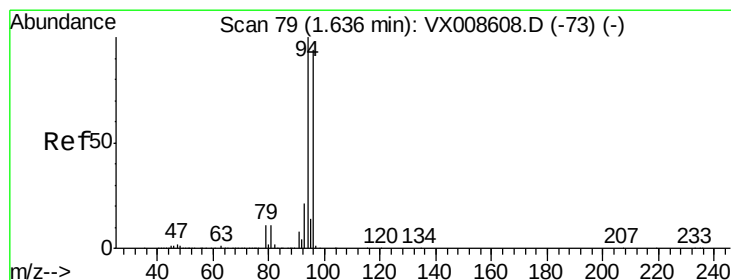
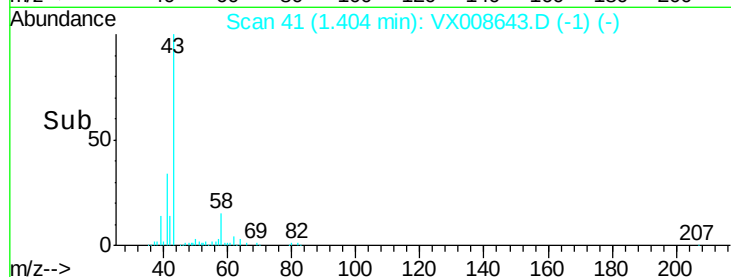
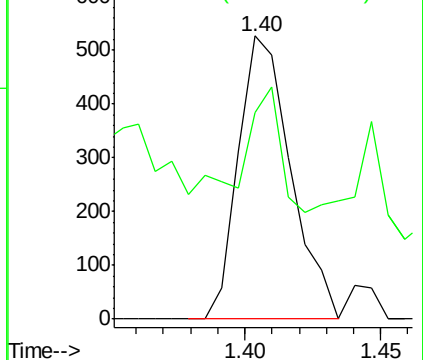
62 100

64 31.3 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 2.275 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008643.D

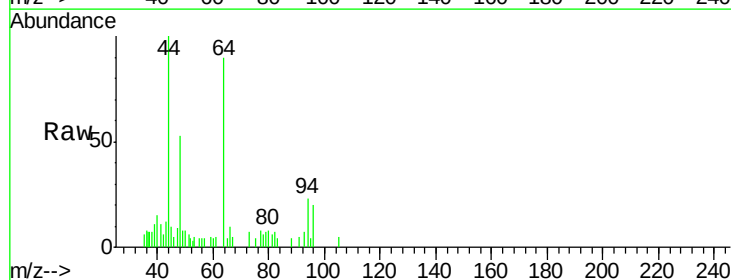
Acq: 04 Apr 2019 18:04

Tgt Ion: 94 Resp: 670

Ion Ratio Lower Upper

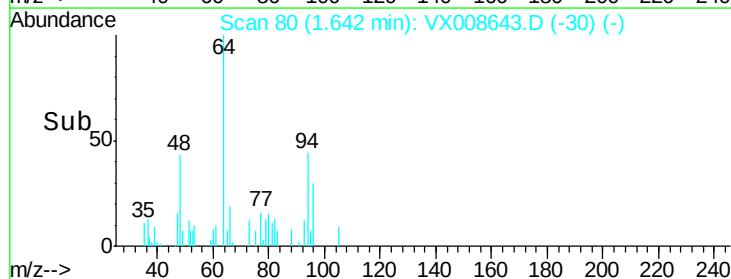
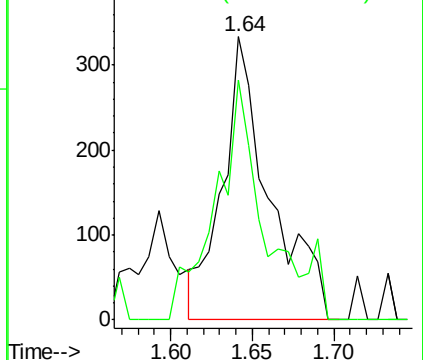
94 100

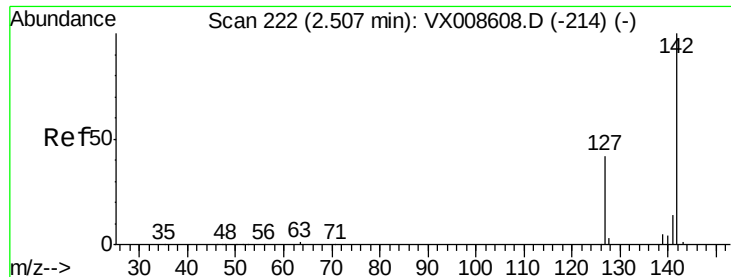
96 85.0 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

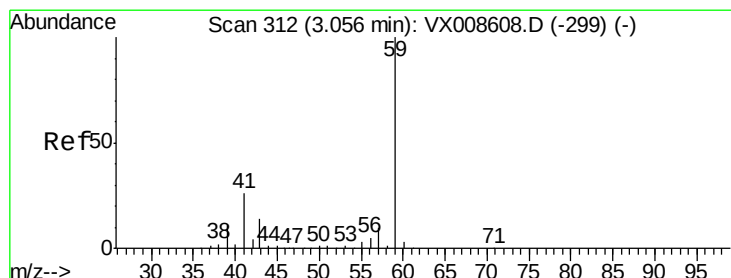
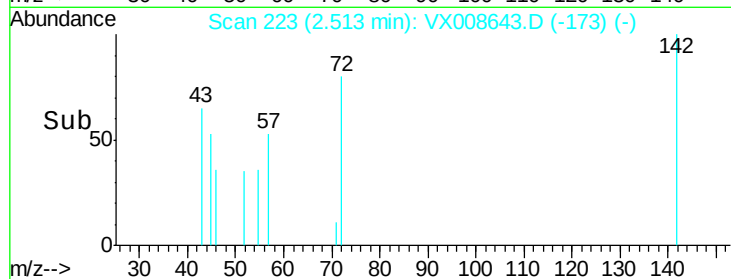
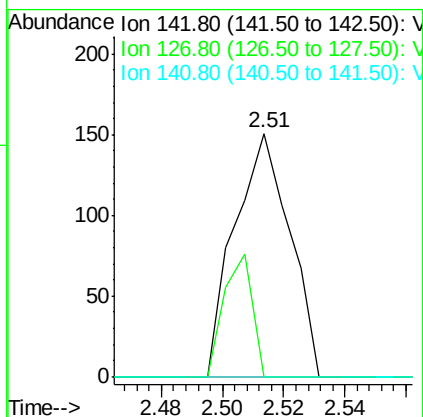
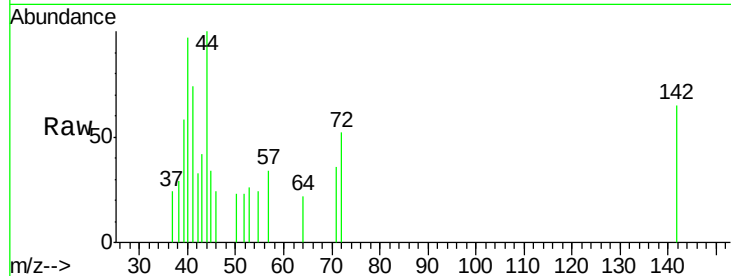




#10
Methyl Iodide
Concen: 4.083 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008643.D
Acq: 04 Apr 2019 18:04

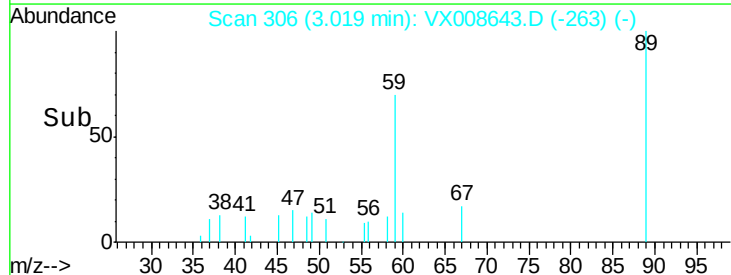
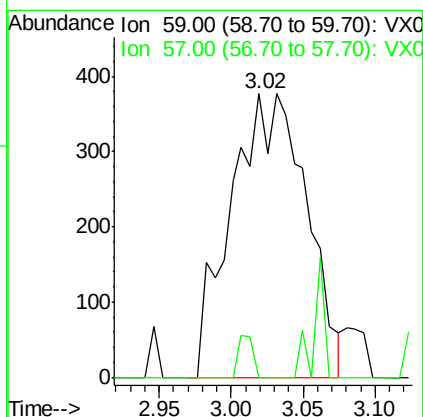
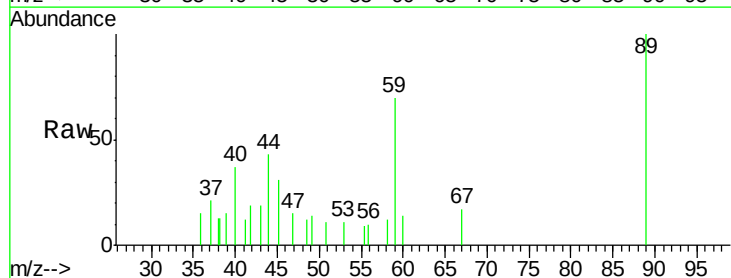
Instrument :
MSVOA_X
ClientSampleId :
S8-EB-2019-1

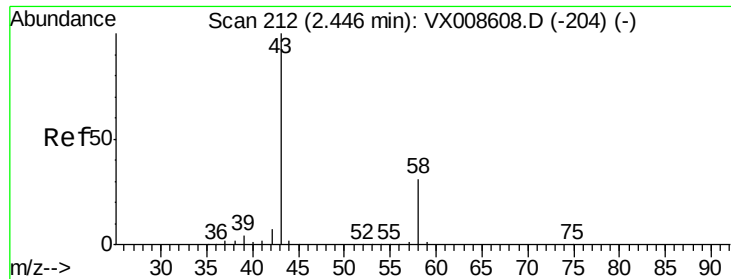
Tgt Ion: 142 Resp: 188
Ion Ratio Lower Upper
142 100
127 25.5 33.0 49.6#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 1.857 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.04 min
Lab File: VX008643.D
Acq: 04 Apr 2019 18:04

Tgt Ion: 59 Resp: 1368
Ion Ratio Lower Upper
59 100
57 2.9 8.3 12.5#





#16

Acetone

Concen: 3.904 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008643.D

Acq: 04 Apr 2019 18:04

Instrument :

MSVOA_X

ClientSampleId :

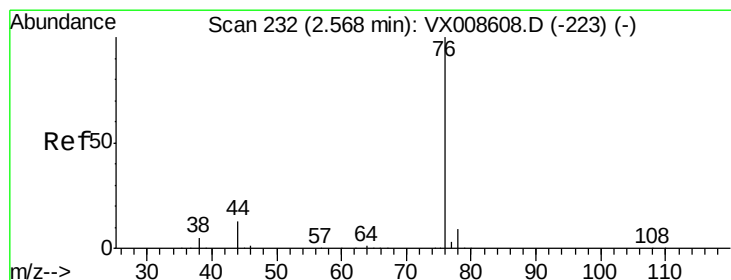
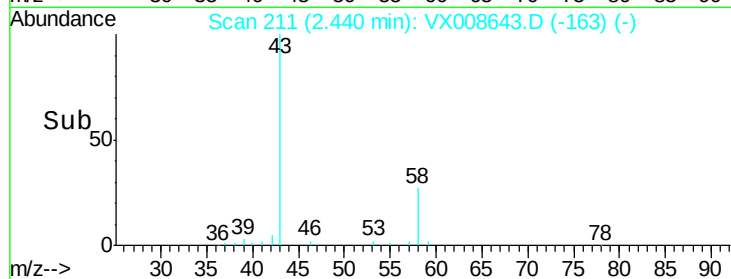
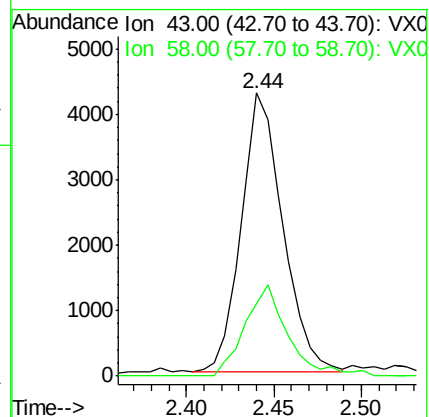
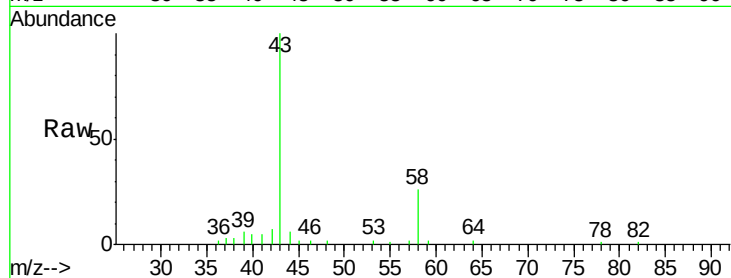
S8-EB-2019-1

Tgt Ion: 43 Resp: 7076

Ion Ratio Lower Upper

43 100

58 26.1 24.8 37.2



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008643.D

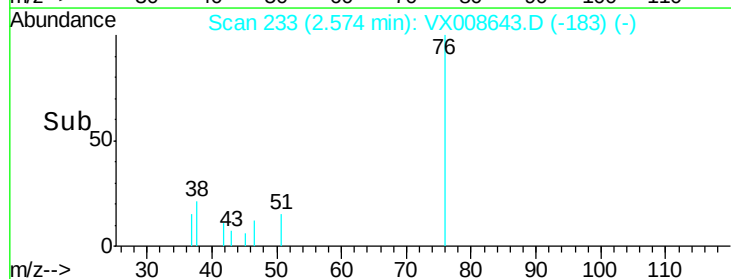
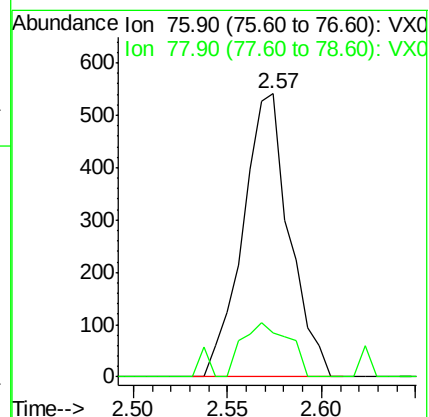
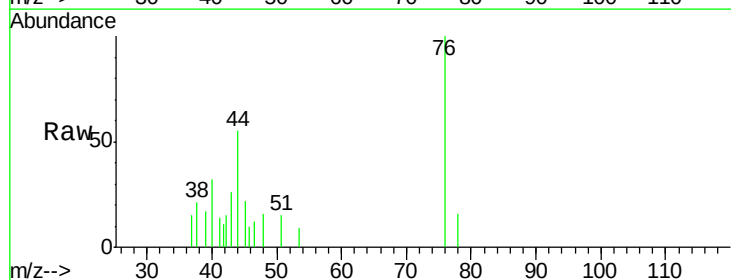
Acq: 04 Apr 2019 18:04

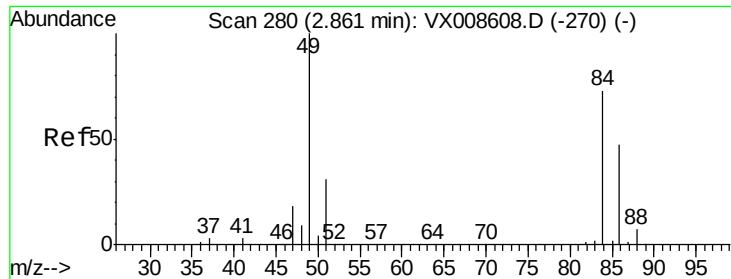
Tgt Ion: 76 Resp: 929

Ion Ratio Lower Upper

76 100

78 15.5 7.1 10.7#

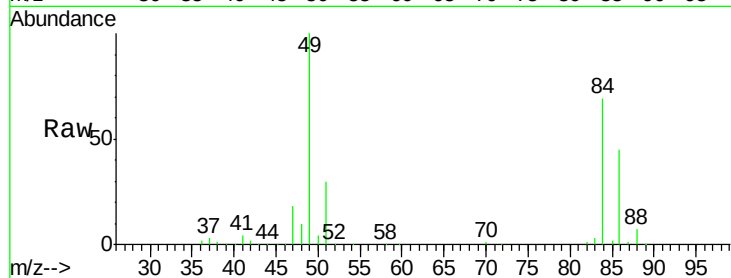




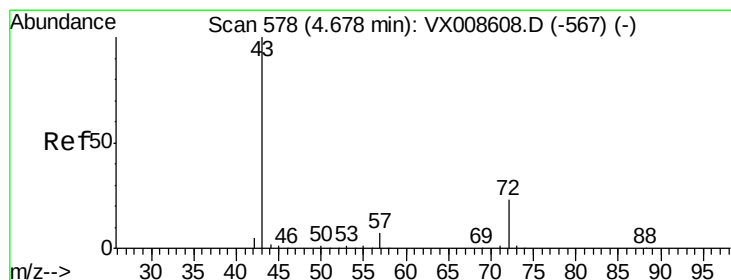
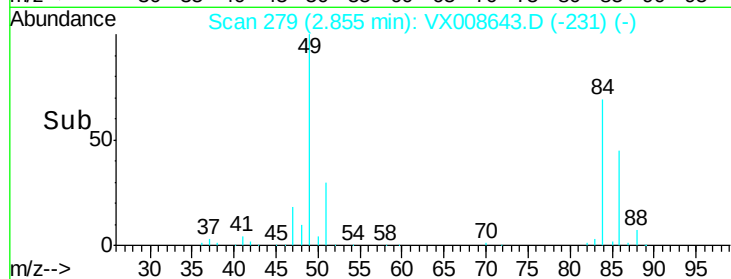
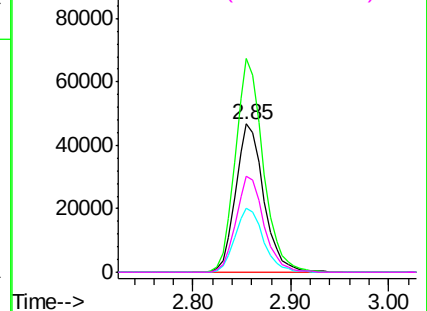
#20
Methylene Chloride
Concen: 30.703 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008643.D
Acq: 04 Apr 2019 18:04

Instrument :
MSVOA_X
ClientSampleId :
S8-EB-2019-1

Tgt Ion: 84 Resp: 93155
Ion Ratio Lower Upper
84 100
49 144.4 109.7 164.5
51 43.4 33.6 50.4
86 65.0 51.4 77.2

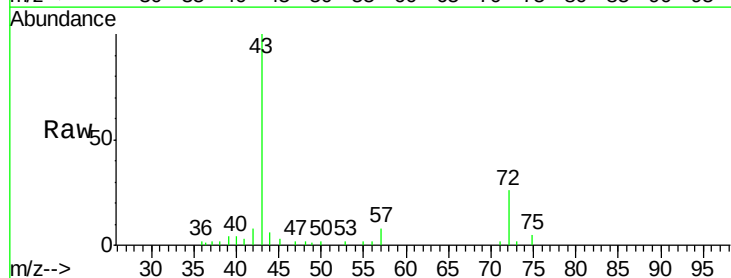


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

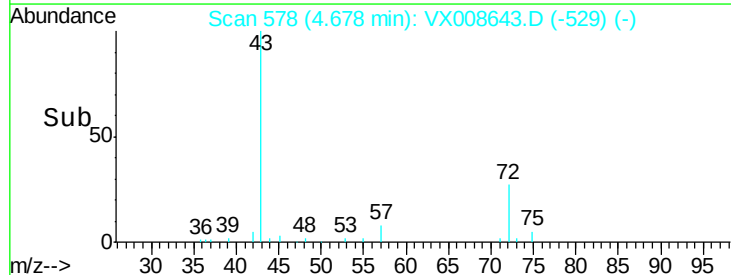
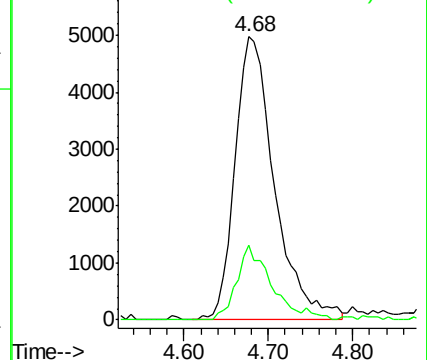


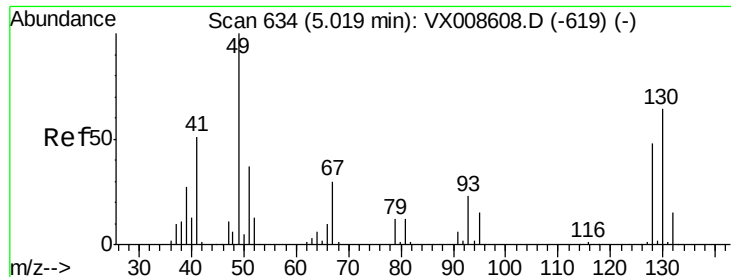
#25
2-Butanone
Concen: 5.528 ug/l
RT: 4.68 min Scan# 578
Delta R.T. -0.00 min
Lab File: VX008643.D
Acq: 04 Apr 2019 18:04

Tgt Ion: 43 Resp: 15837
Ion Ratio Lower Upper
43 100
72 26.3 18.2 27.4



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





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX008643.D

Acq: 04 Apr 2019 18:04

Instrument :

MSVOA_X

ClientSampleId :

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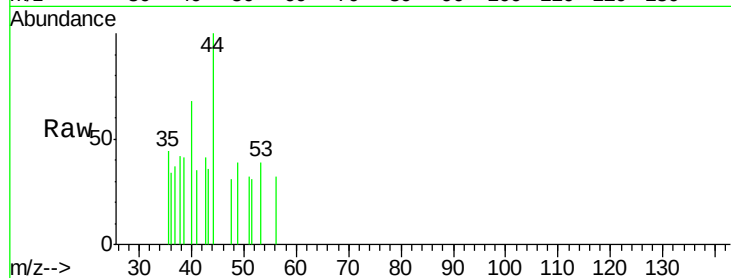
Tgt Ion: 49 Resp: 24

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

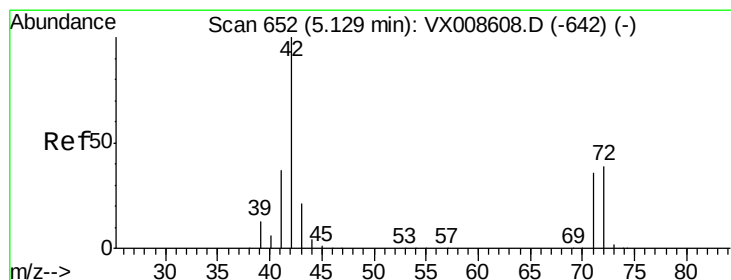
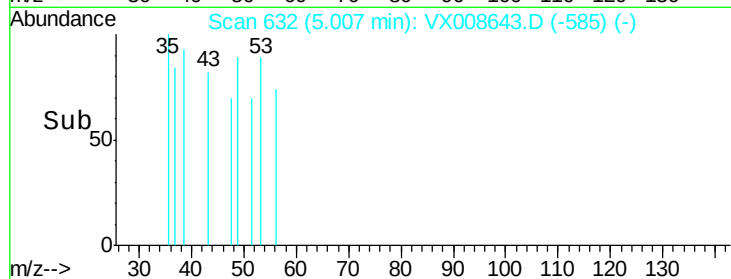
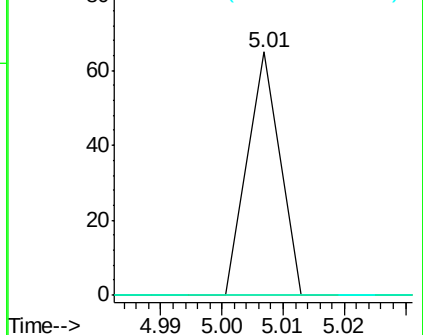
130 0.0 49.3 73.9#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 126.130 ug/l

RT: 5.13 min Scan# 652

Delta R.T. -0.00 min

Lab File: VX008643.D

Acq: 04 Apr 2019 18:04

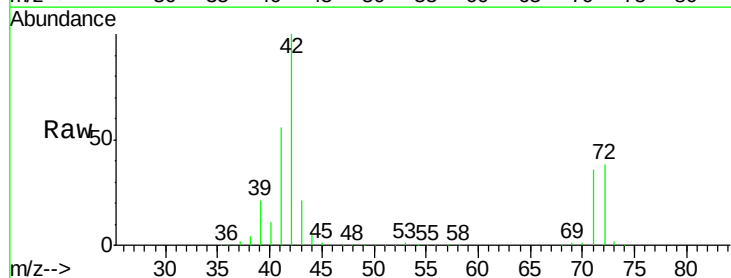
Tgt Ion: 42 Resp: 239833

Ion Ratio Lower Upper

42 100

72 37.4 30.5 45.7

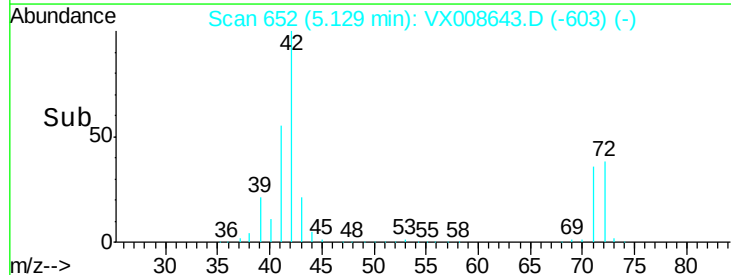
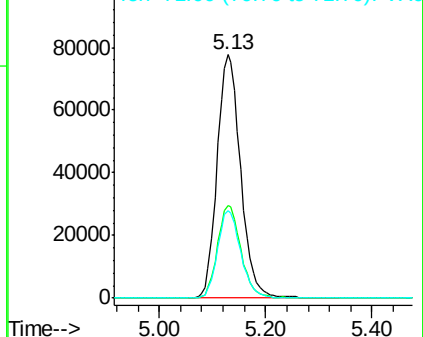
71 35.5 28.6 43.0

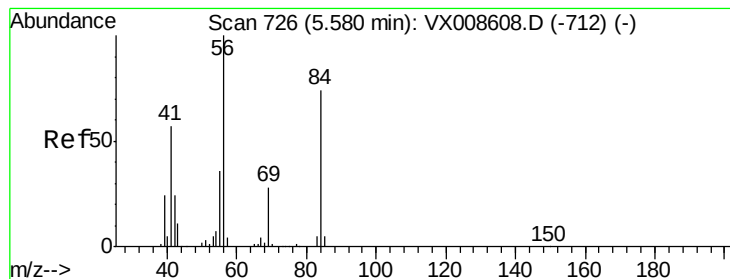


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 0.248 ug/l

RT: 5.58 min Scan# 726

Delta R.T. -0.00 min

Lab File: VX008643.D

Acq: 04 Apr 2019 18:04

Instrument :

MSVOA_X

ClientSampled :

S8-EB-2019-1

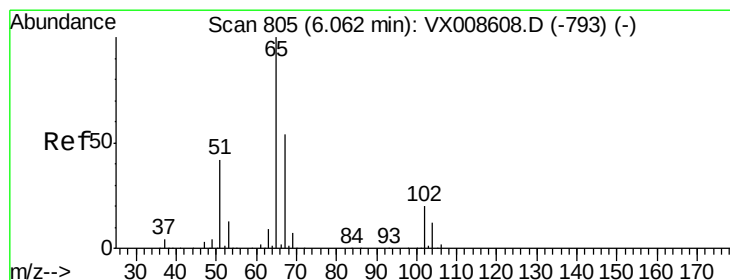
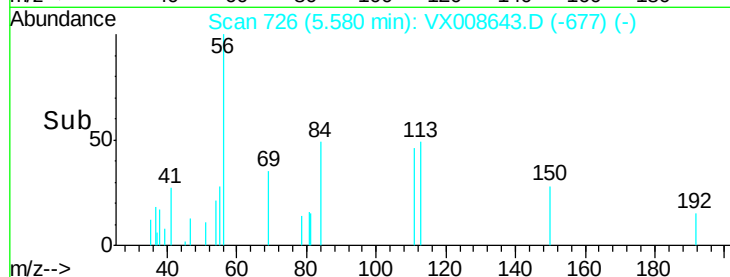
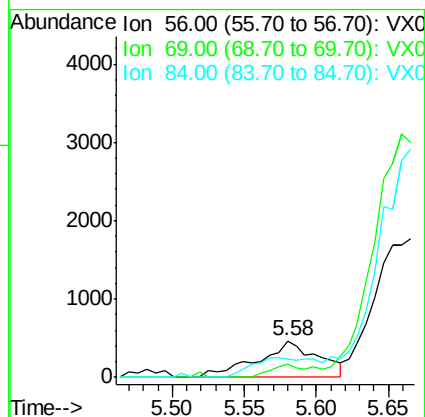
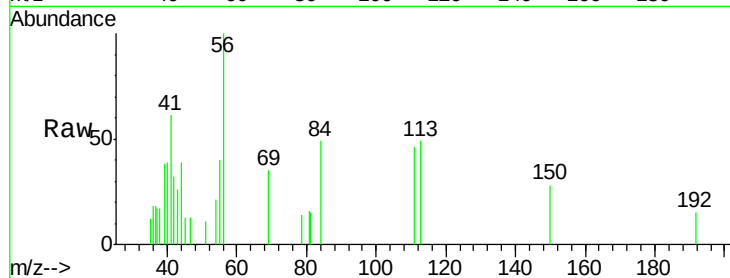
Tgt Ion: 56 Resp: 1351

Ion Ratio Lower Upper

56 100

69 35.1 22.6 33.8#

84 49.0 59.3 88.9#



#33

1,2-Dichloroethane-d4

Concen: 47.571 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008643.D

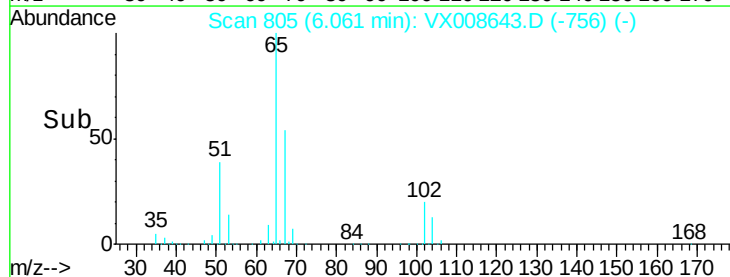
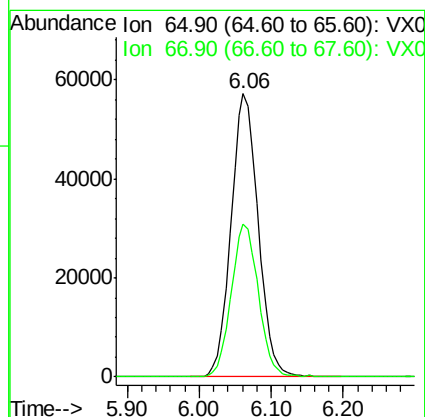
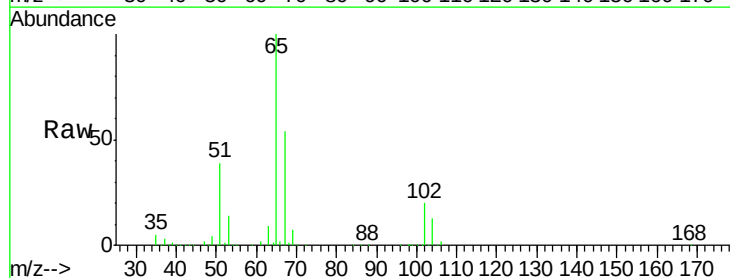
Acq: 04 Apr 2019 18:04

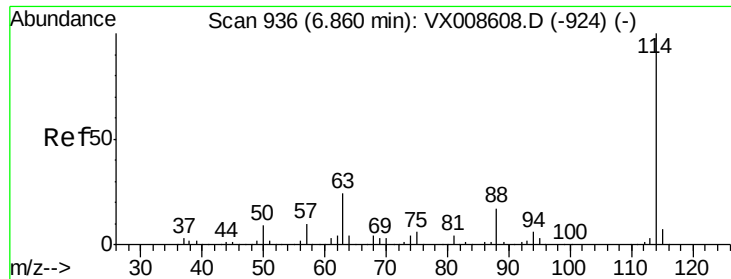
Tgt Ion: 65 Resp: 149706

Ion Ratio Lower Upper

65 100

67 54.1 0.0 107.2

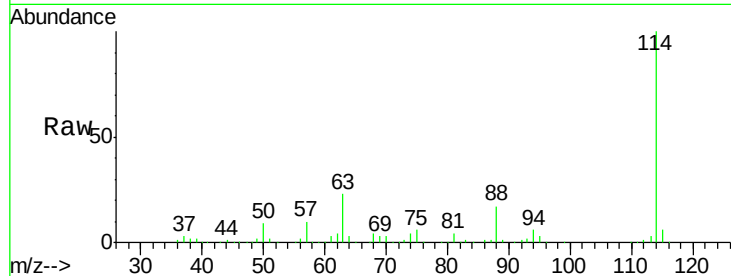




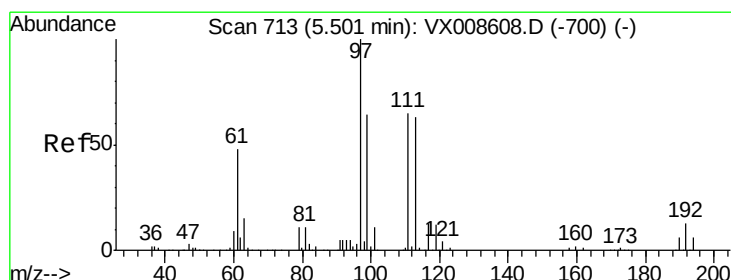
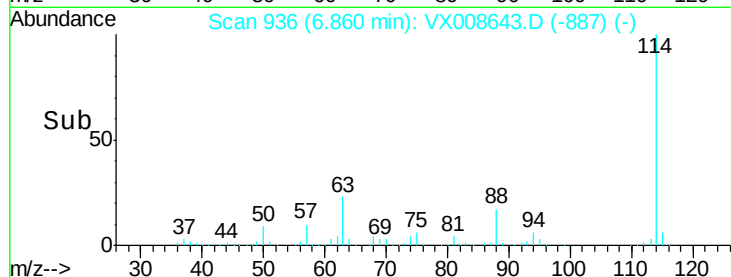
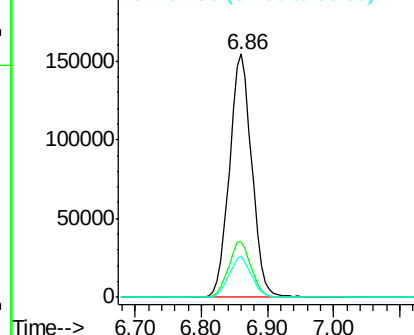
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008643.D
 Acq: 04 Apr 2019 18:04

Instrument :
 MSVOA_X
 ClientSampleId :
 S8-EB-2019-1

Tgt Ion:114 Resp: 361772
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 47.2
 88 16.9 0.0 34.0

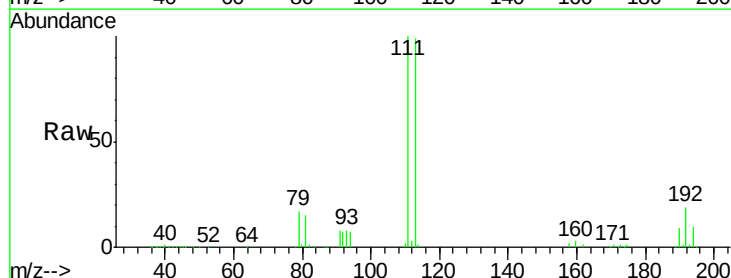


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

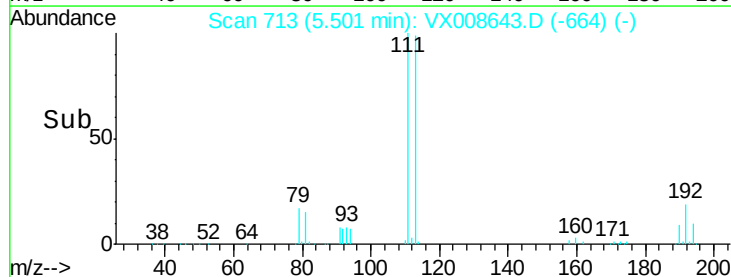
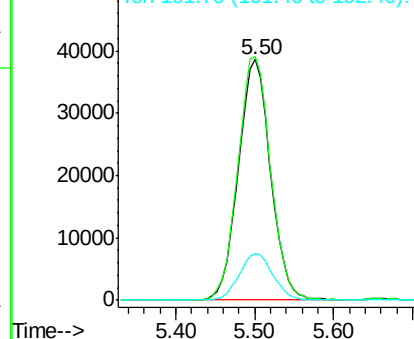


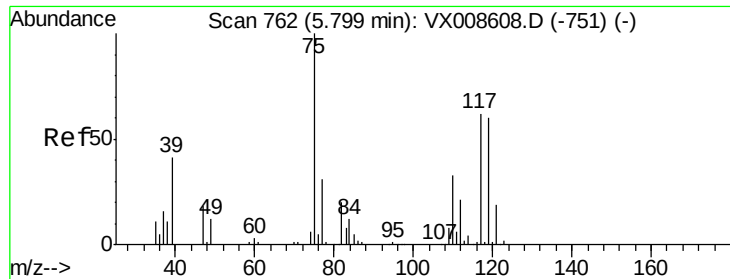
#35
 Dibromofluoromethane
 Concen: 47.440 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008643.D
 Acq: 04 Apr 2019 18:04

Tgt Ion:113 Resp: 109731
 Ion Ratio Lower Upper
 113 100
 111 102.7 83.4 125.2
 192 20.2 16.1 24.1



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

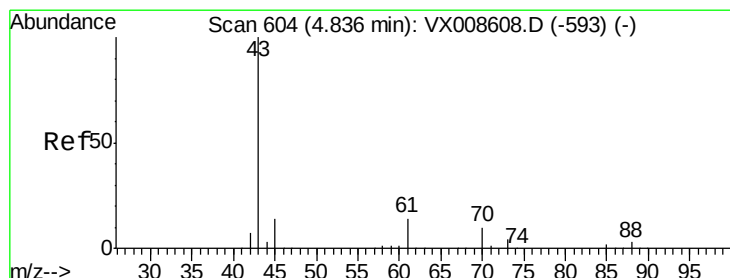
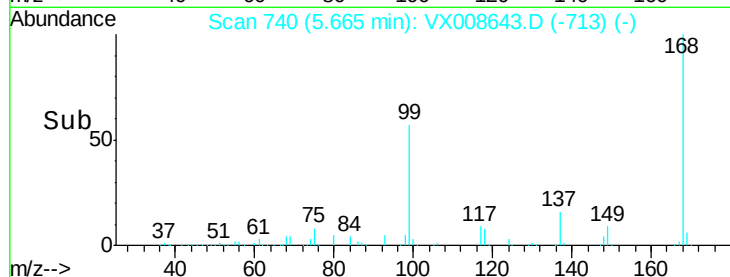
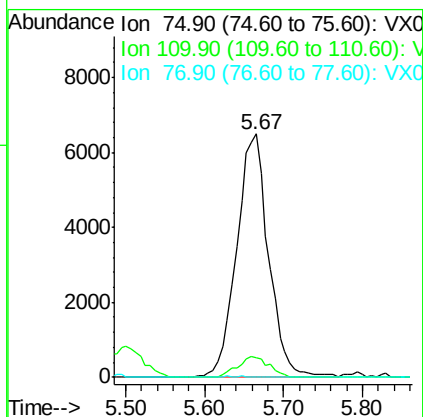
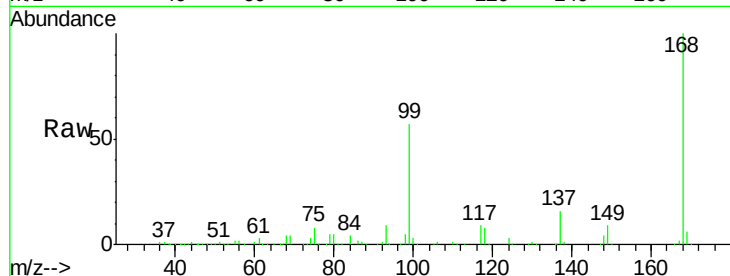




#36
 1,1-Dichloropropene
 Concen: 4.617 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX008643.D
 Acq: 04 Apr 2019 18:04

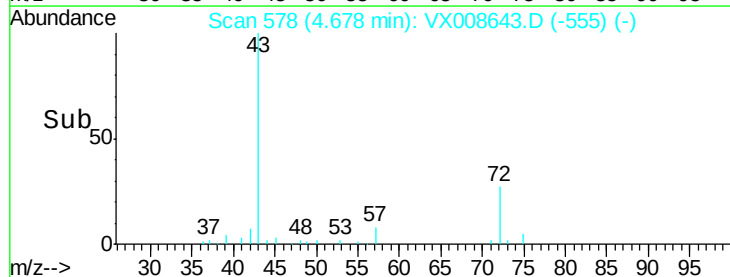
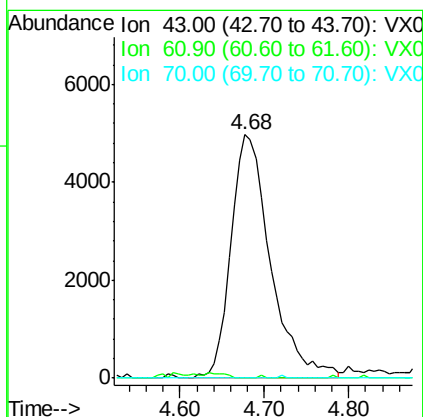
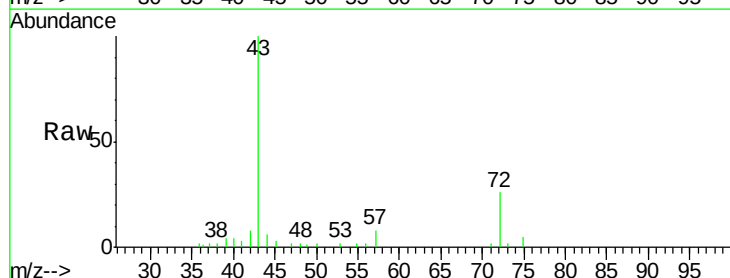
Instrument :
 MSVOA_X
 ClientSampleId :
 S8-EB-2019-1

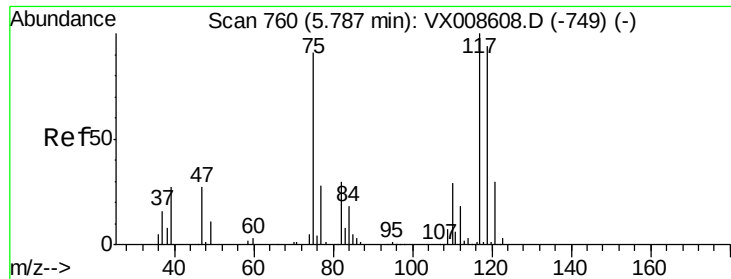
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	16.4	49.2#
77	0.1	24.7	37.1#



#37
 Ethyl Acetate
 Concen: 3.000 ug/l
 RT: 4.68 min Scan# 578
 Delta R.T. -0.16 min
 Lab File: VX008643.D
 Acq: 04 Apr 2019 18:04

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.1	10.3	15.5#
70	0.0	7.6	11.4#

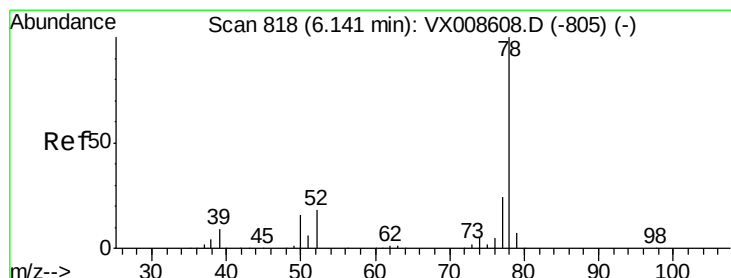
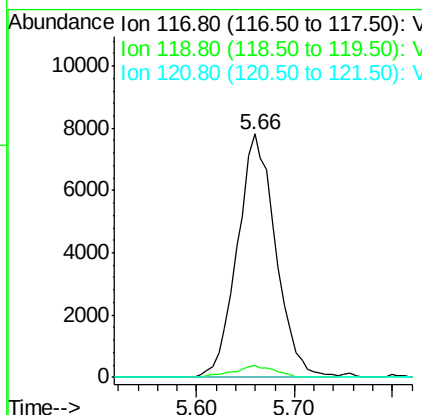
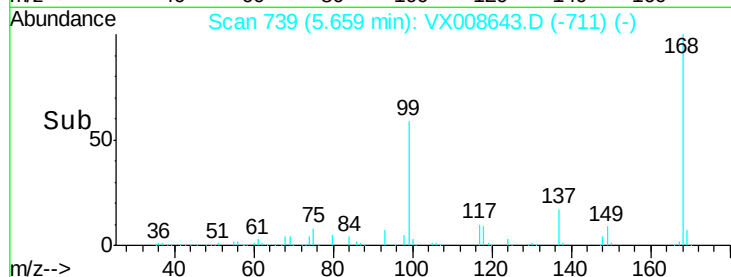
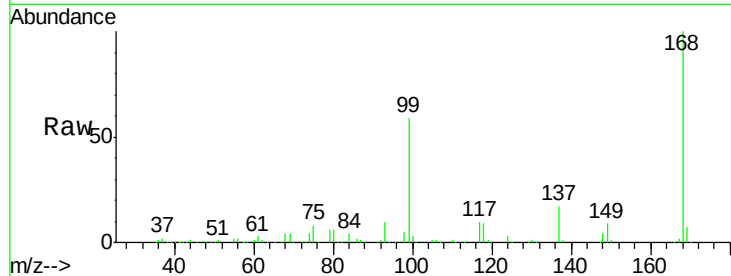




#38
Carbon Tetrachloride
Concen: 6.500 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX008643.D
Acq: 04 Apr 2019 18:04

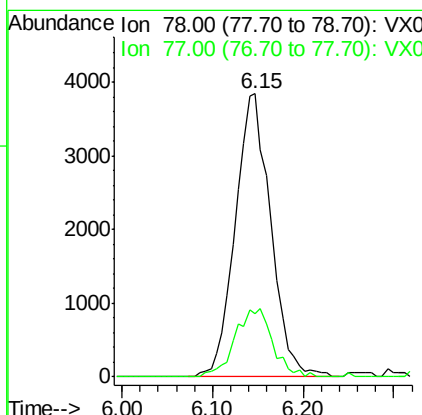
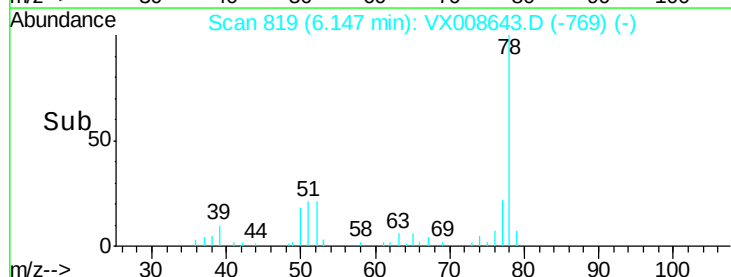
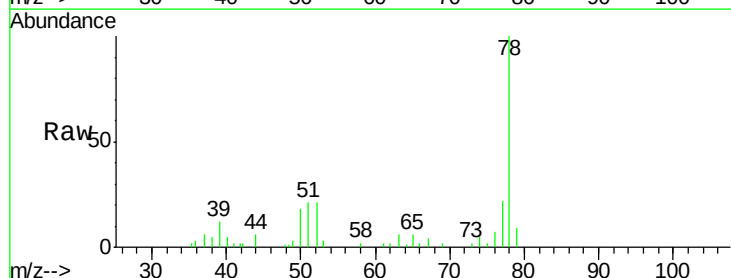
Instrument :
MSVOA_X
ClientSampleId :
S8-EB-2019-1

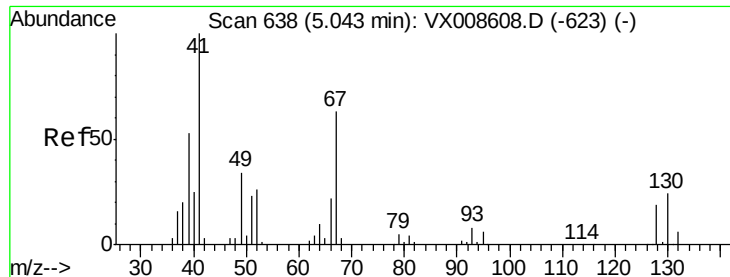
Tgt Ion: 117 Resp: 21276
Ion Ratio Lower Upper
117 100
119 4.9 75.0 112.6#
121 0.0 24.3 36.5#



#40
Benzene
Concen: 0.885 ug/l
RT: 6.15 min Scan# 819
Delta R.T. 0.01 min
Lab File: VX008643.D
Acq: 04 Apr 2019 18:04

Tgt Ion: 78 Resp: 10421
Ion Ratio Lower Upper
78 100
77 22.3 19.1 28.7





#41

Methacrylonitrile

Concen: 42.761 ug/l

RT: 5.13 min Scan# 652

Delta R.T. 0.09 min

Lab File: VX008643.D

Acq: 04 Apr 2019 18:04

Instrument :

MSVOA_X

ClientSampleId :

S8-EB-2019-1

Tgt Ion: 41 Resp: 129743

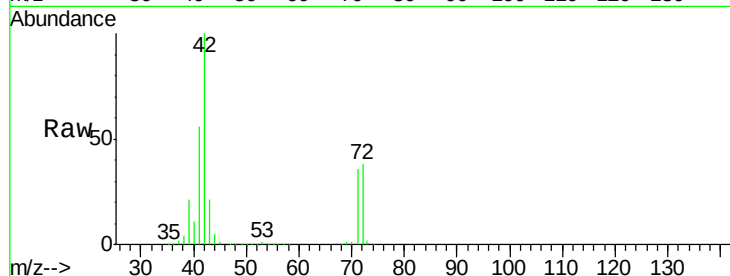
Ion Ratio Lower Upper

41 100

39 39.6 42.1 63.1#

67 0.0 51.0 76.6#

52 0.2 21.4 32.0#

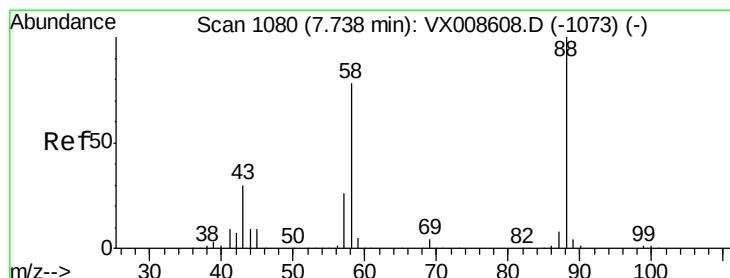
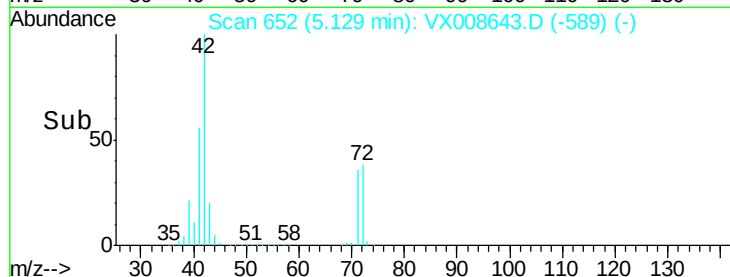
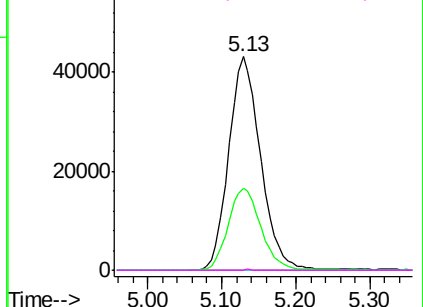


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#49

1,4-Dioxane

Concen: 0.268 ug/l

RT: 7.67 min Scan# 1069

Delta R.T. -0.07 min

Lab File: VX008643.D

Acq: 04 Apr 2019 18:04

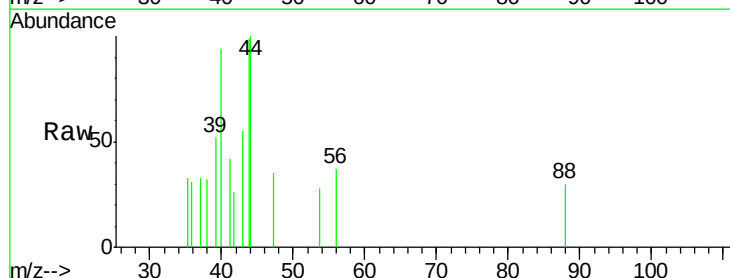
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 857.1 28.6 43.0#

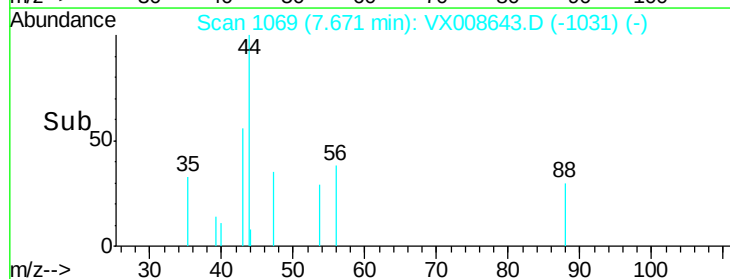
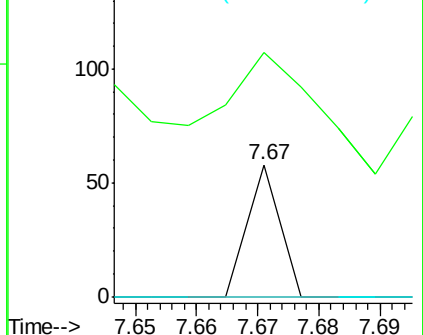
58 0.0 62.2 93.2#

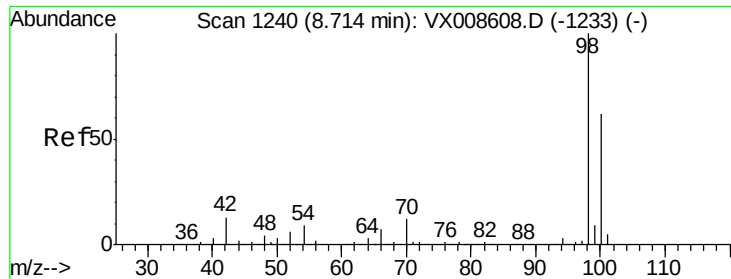


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

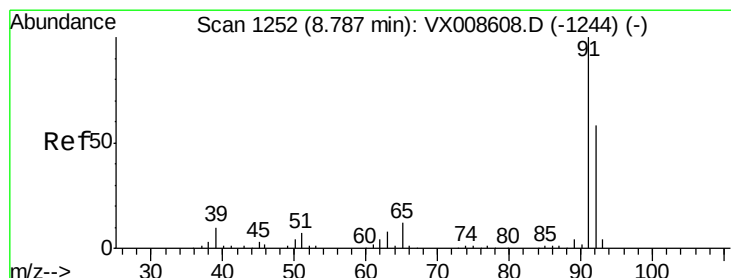
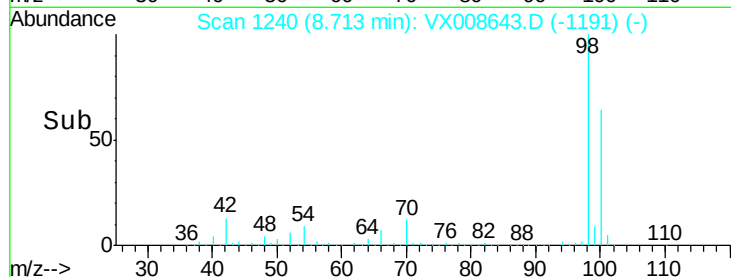
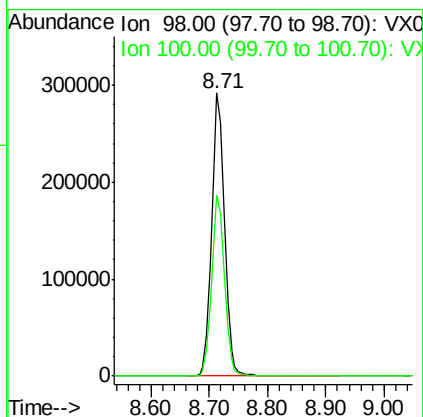
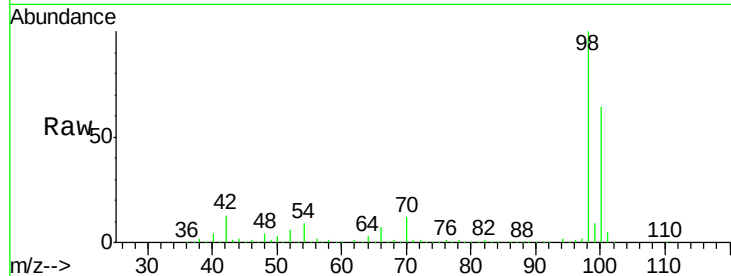




#50
Toluene-d8
Concen: 49.007 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008643.D
Acq: 04 Apr 2019 18:04

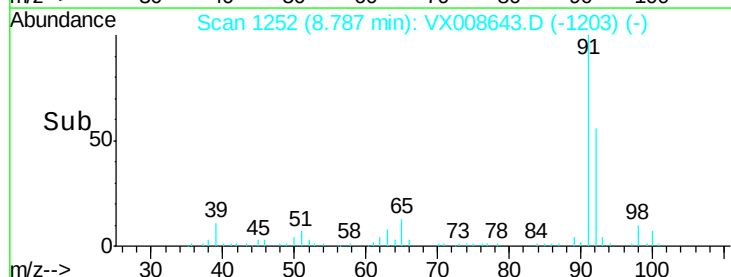
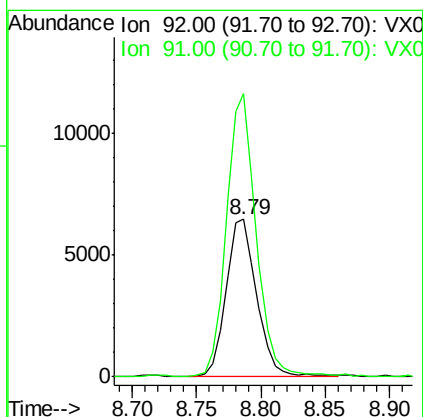
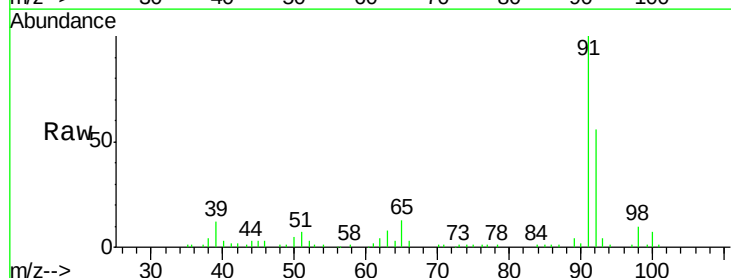
Instrument :
MSVOA_X
ClientSampleId :
S8-EB-2019-1

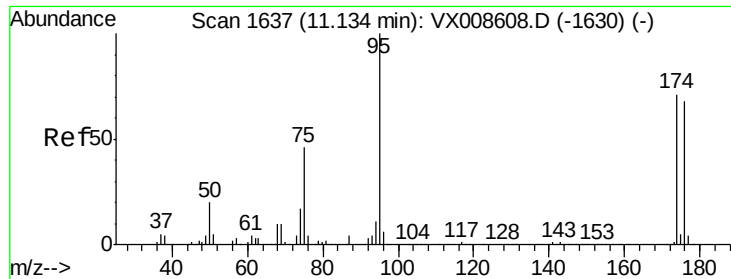
Tgt Ion: 98 Resp: 451351
Ion Ratio Lower Upper
98 100
100 63.9 51.4 77.0



#52
Toluene
Concen: 1.558 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. -0.00 min
Lab File: VX008643.D
Acq: 04 Apr 2019 18:04

Tgt Ion: 92 Resp: 10819
Ion Ratio Lower Upper
92 100
91 174.2 138.5 207.7

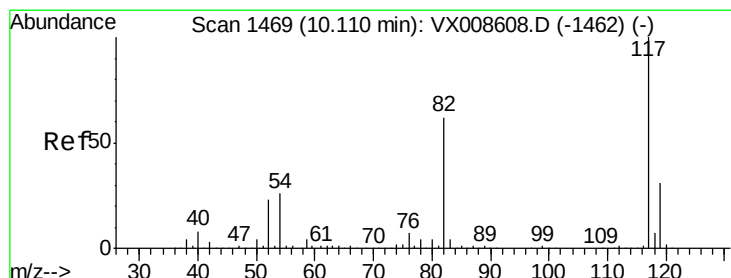
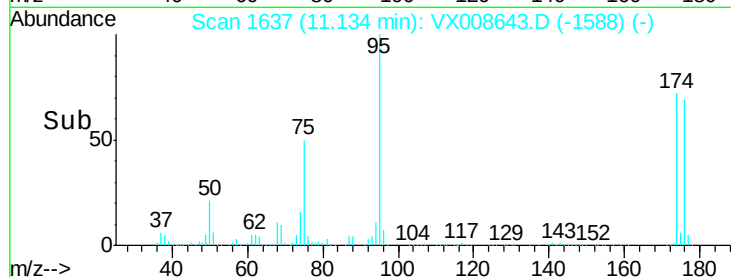
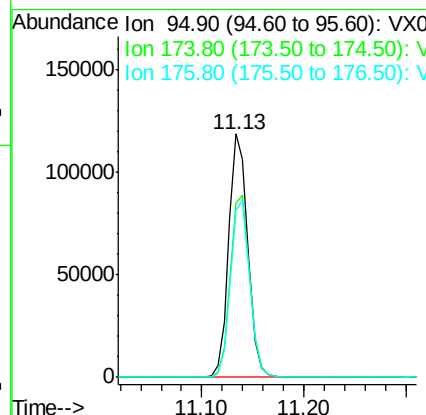
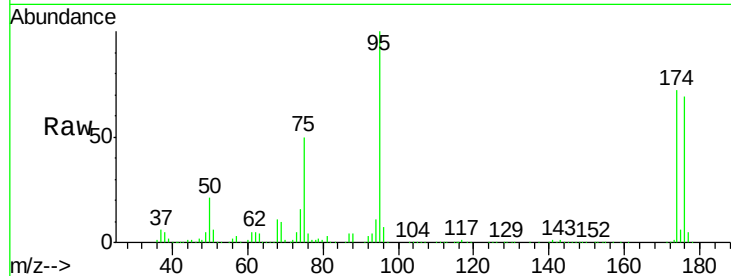




#62
4-Bromofluorobenzene
Concen: 46.894 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008643.D
Acq: 04 Apr 2019 18:04

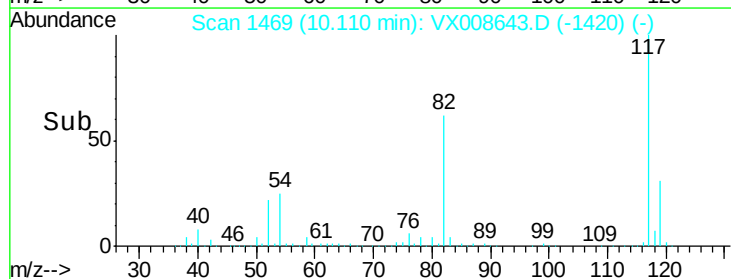
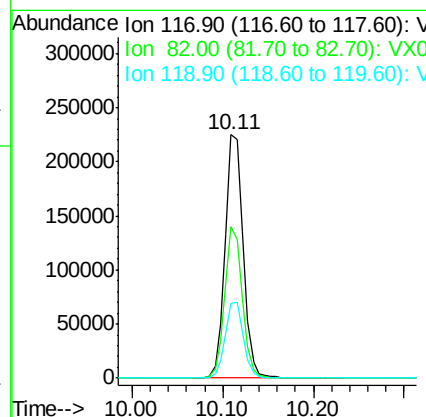
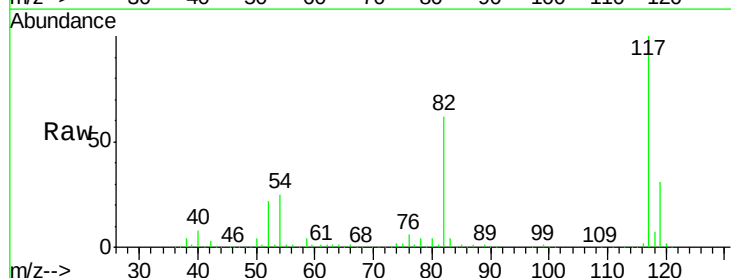
Instrument :
MSVOA_X
ClientSampleId :
S8-EB-2019-1

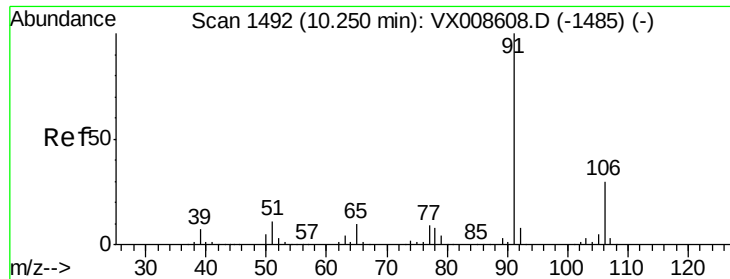
Tgt Ion: 95 Resp: 153154
Ion Ratio Lower Upper
95 100
174 76.4 0.0 151.8
176 73.5 0.0 145.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008643.D
Acq: 04 Apr 2019 18:04

Tgt Ion: 117 Resp: 313445
Ion Ratio Lower Upper
117 100
82 62.2 49.6 74.4
119 30.9 25.0 37.4

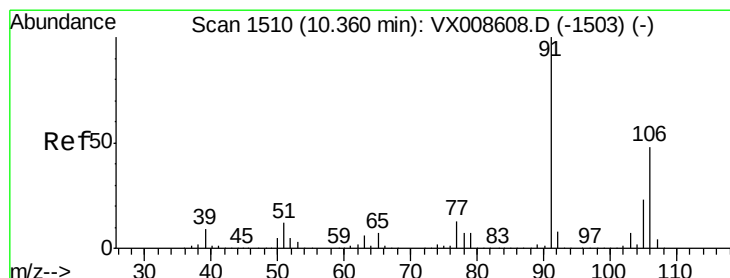
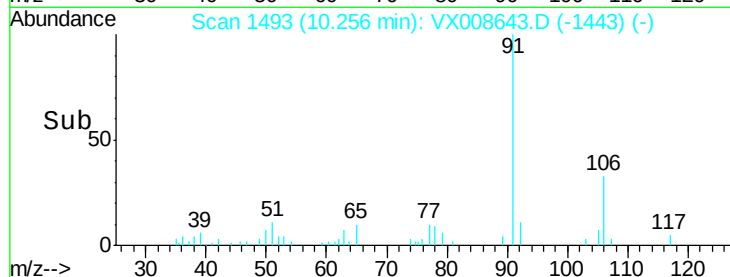
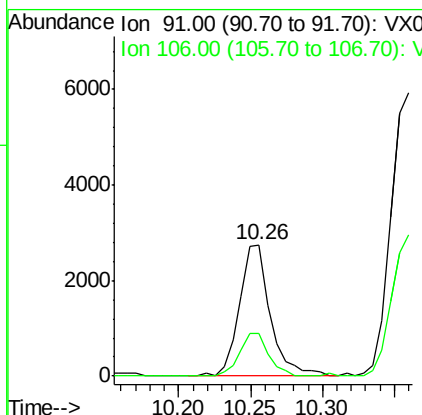
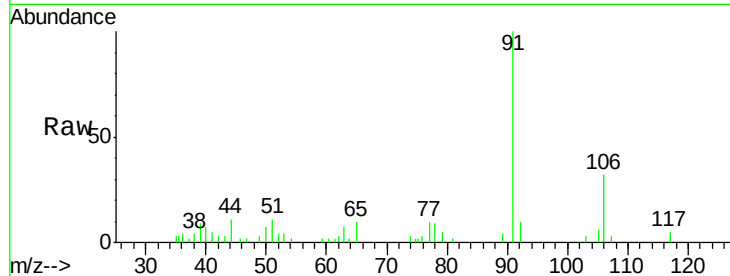




#67
Ethyl Benzene
Concen: 0.316 ug/l
RT: 10.26 min Scan# 1493
Delta R.T. 0.01 min
Lab File: VX008643.D
Acq: 04 Apr 2019 18:04

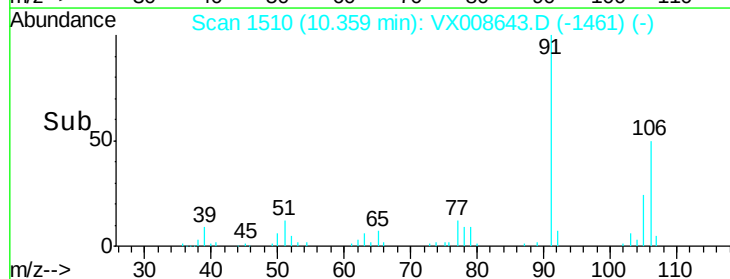
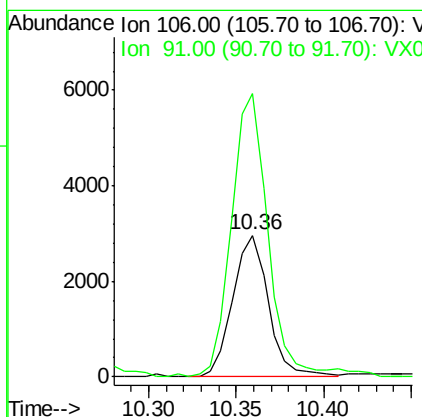
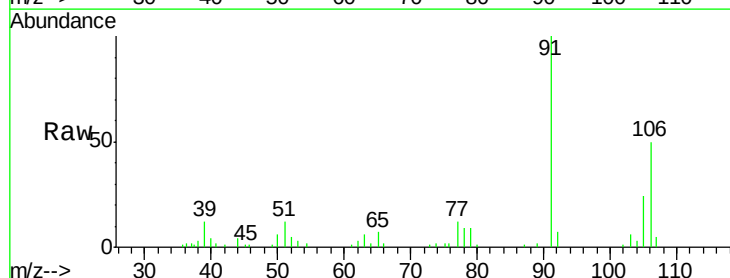
Instrument :
MSVOA_X
ClientSampled :
S8-EB-2019-1

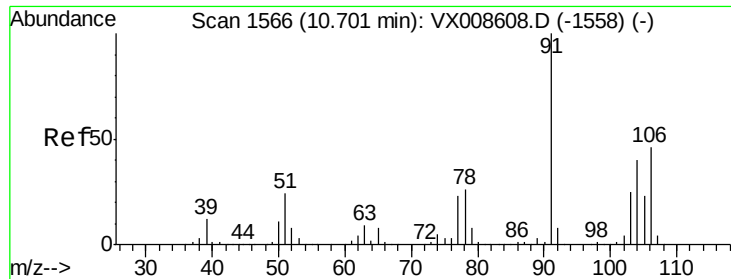
Tgt Ion: 91 Resp: 4091
Ion Ratio Lower Upper
91 100
106 32.4 23.7 35.5



#68
m/p-Xylenes
Concen: 0.907 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX008643.D
Acq: 04 Apr 2019 18:04

Tgt Ion: 106 Resp: 4225
Ion Ratio Lower Upper
106 100
91 205.8 168.5 252.7

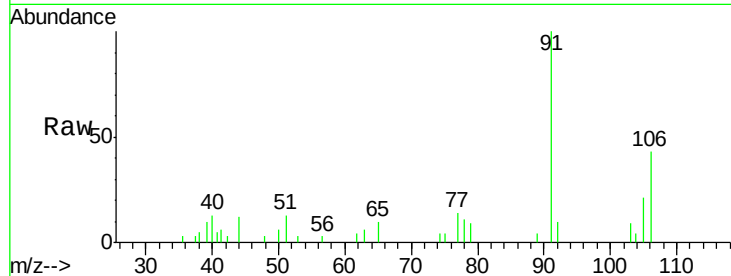




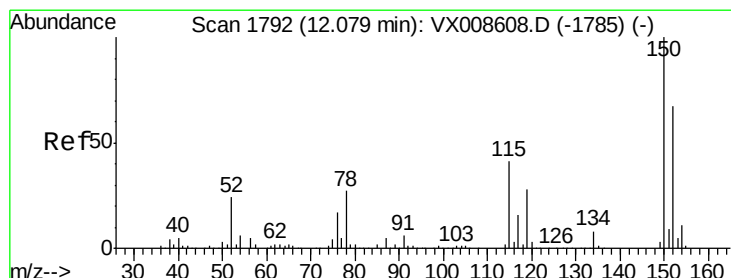
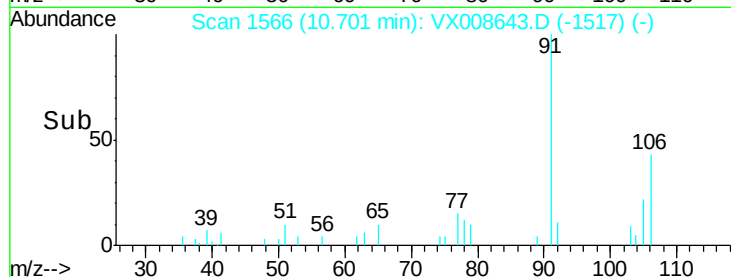
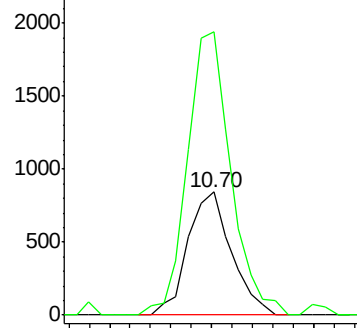
#69
o-Xylene
Concen: 0.277 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VX008643.D
Acq: 04 Apr 2019 18:04

Instrument :
MSVOA_X
ClientSampleId :
S8-EB-2019-1

Tgt Ion:106 Resp: 1252
Ion Ratio Lower Upper
106 100
91 229.0 111.5 334.4

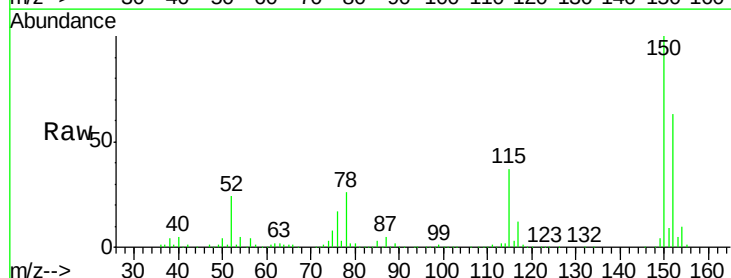


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

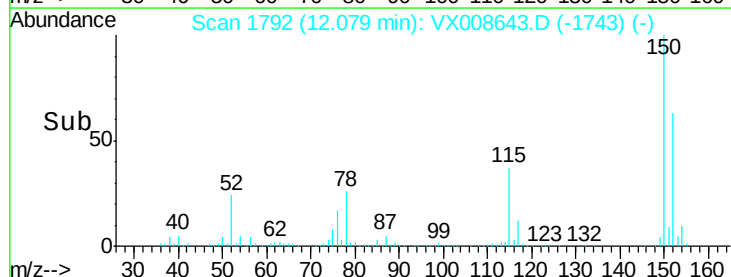
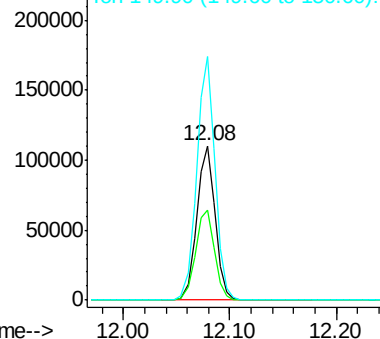


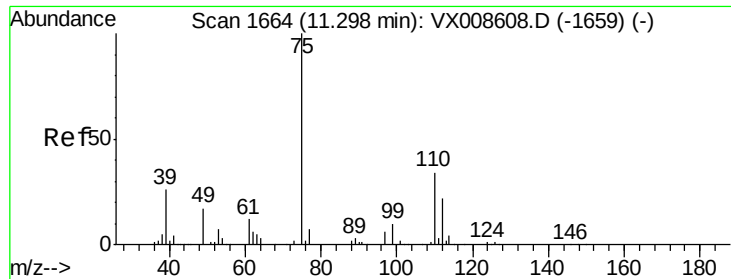
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008643.D
Acq: 04 Apr 2019 18:04

Tgt Ion:152 Resp: 132240
Ion Ratio Lower Upper
152 100
115 60.6 43.5 130.5
150 156.9 0.0 348.8



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: 21.219 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008643.D

Acq: 04 Apr 2019 18:04

Instrument :

MSVOA_X

ClientSampleId :

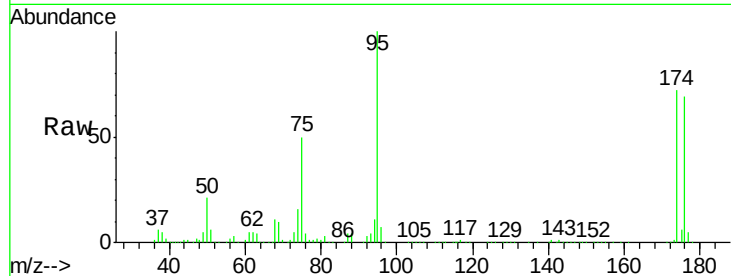
S8-EB-2019-1

Tgt Ion: 75 Resp: 77082

Ion Ratio Lower Upper

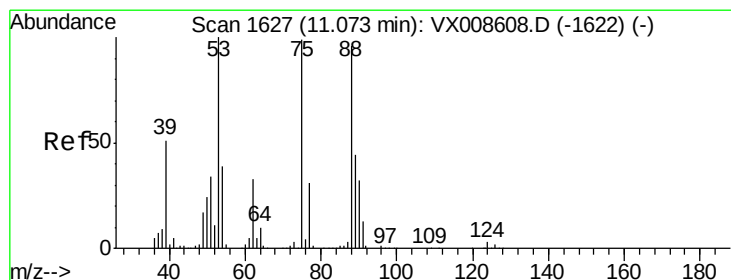
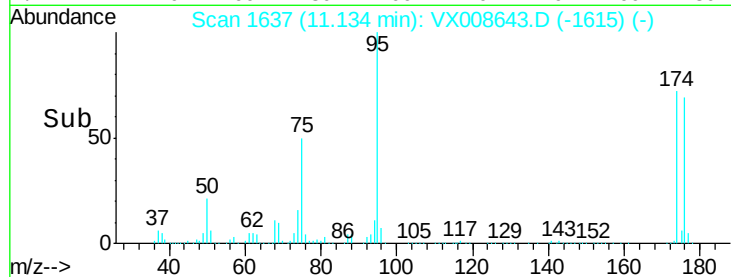
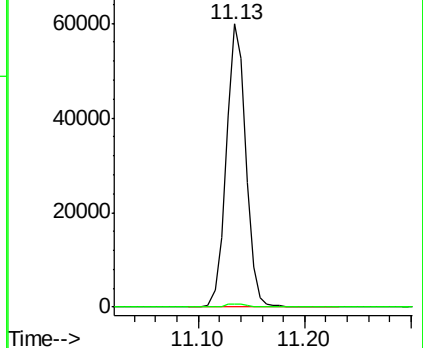
75 100

77 1.4 22.3 66.8#



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: 58.490 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008643.D

Acq: 04 Apr 2019 18:04

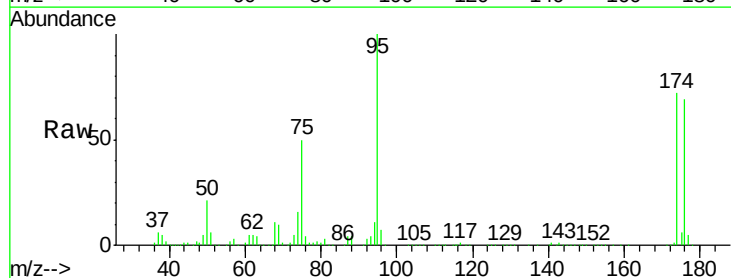
Tgt Ion: 75 Resp: 77082

Ion Ratio Lower Upper

75 100

53 0.2 81.3 121.9#

89 0.0 35.6 53.4#



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

