

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040819\
 Data File : VX008756.D
 Acq On : 08 Apr 2019 19:33
 Operator : JC/SP
 Sample : K2337-01 50X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WS040819

Quant Time: Apr 09 09:22:52 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	183235	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	304166	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	258697	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	107639	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	125833	47.08	ug/l	0.00
Spiked Amount			Recovery	=	94.16%	
35) Dibromofluoromethane	5.50	113	92926	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
50) Toluene-d8	8.71	98	376620	48.64	ug/l	0.00
Spiked Amount			Recovery	=	97.28%	
62) 4-Bromofluorobenzene	11.14	95	123331	44.91	ug/l	0.00
Spiked Amount			Recovery	=	89.82%	

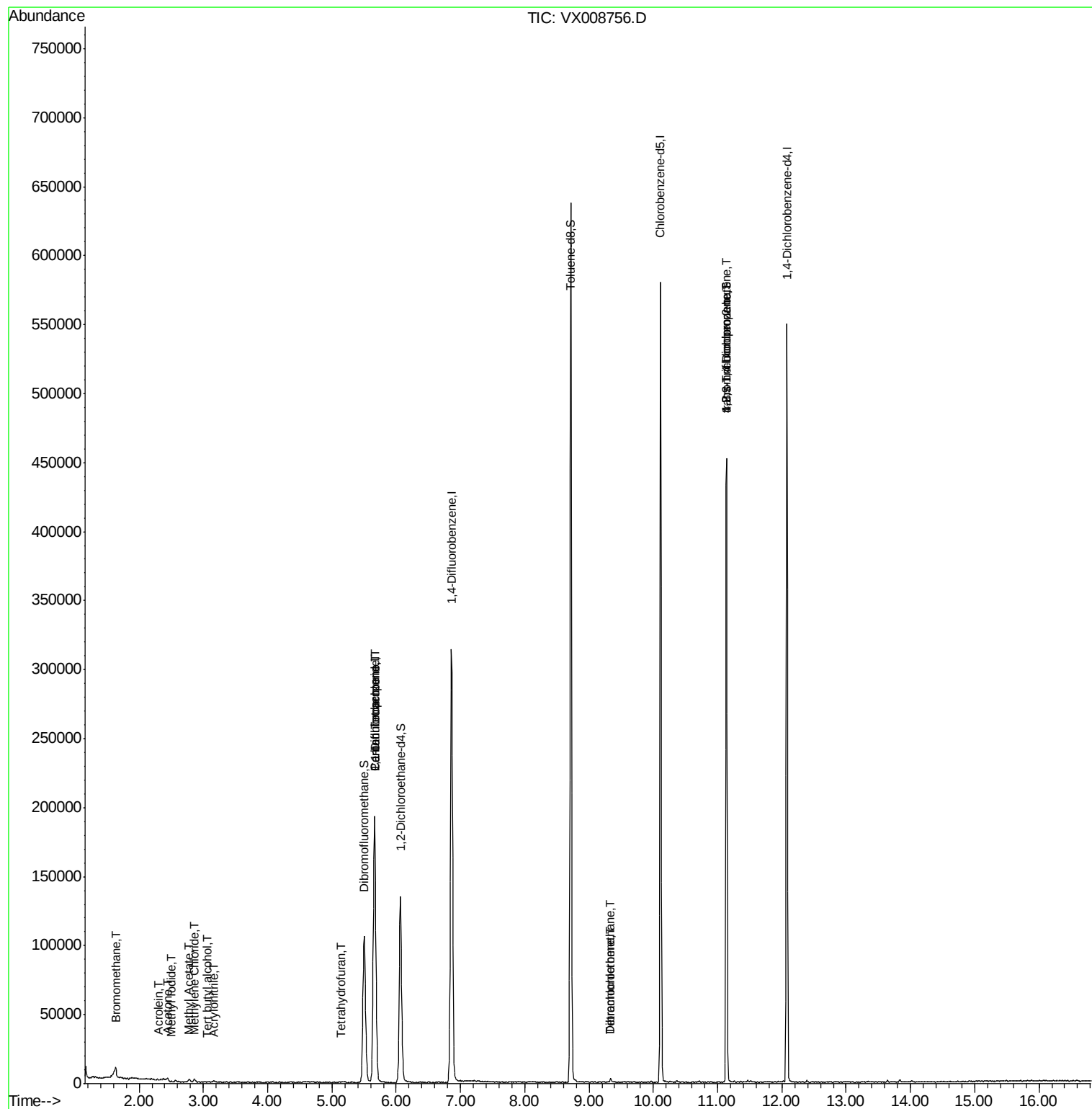
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	458	Below Cal		89
5) Bromomethane	1.64	94	402	2.161 ug/l		84
6) Chloroethane	1.71	64	140	Below Cal	#	43
10) Methyl Iodide	2.51	142	215	4.110 ug/l	#	71
11) Tert butyl alcohol	3.06	59	230	0.368 ug/l	#	72
13) Acrolein	2.30	56	277	0.893 ug/l	#	10
15) Acrylonitrile	3.15	53	496	0.299 ug/l	#	91
16) Acetone	2.45	43	804	0.522 ug/l	#	83
17) Carbon Disulfide	2.56	76	1508	Below Cal	#	86
18) Methyl Acetate	2.78	43	2689	0.720 ug/l	#	89
20) Methylene Chloride	2.85	84	922	0.358 ug/l		85
28) Bromochloromethane	5.03	49	20	Below Cal	#	22
29) Tetrahydrofuran	5.14	42	458	0.284 ug/l	#	50
36) 1,1-Dichloropropene	5.66	75	14474	4.353 ug/l	#	50
38) Carbon Tetrachloride	5.67	117	17814	6.473 ug/l	#	17
60) Dibromochloromethane	9.34	129	447	0.202 ug/l	#	11
64) Tetrachloroethene	9.34	164	536	0.280 ug/l	#	78
76) 1,2,3-Trichloropropane	11.13	75	62963	21.293 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.13	75	62963	58.696 ug/l	#	9

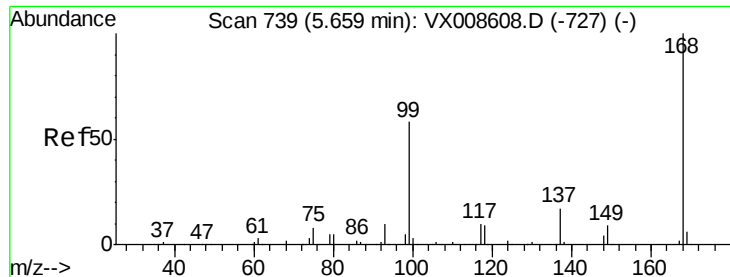
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX008756.D

Acq: 08 Apr 2019 19:33

Instrument :

MSVOA_X

ClientSampleId :

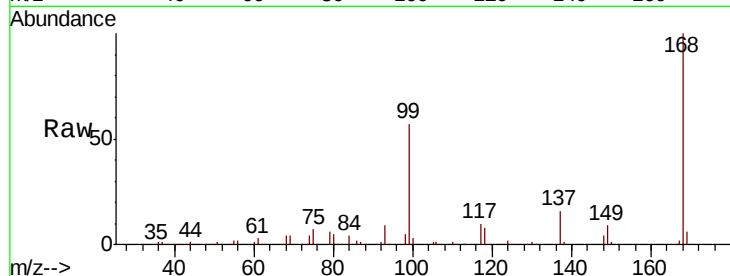
WS040819

Tot Ion:168 Resp: 183235

Ion Ratio Lower Upper

168 100

99 57.1 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VX008608.D (-727) (-)

Ion 98.90 (98.60 to 99.60): VX008608.D (-727) (-)

5.67

60000

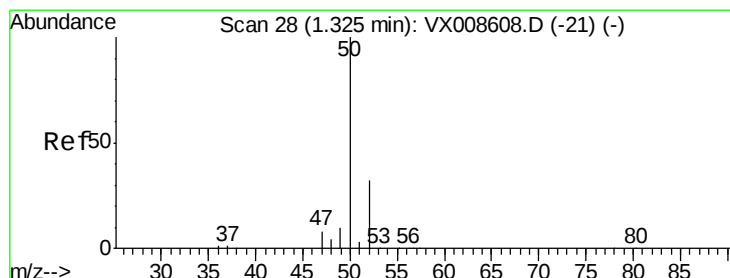
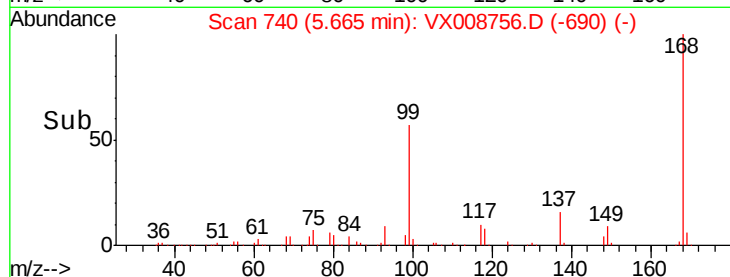
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX008756.D

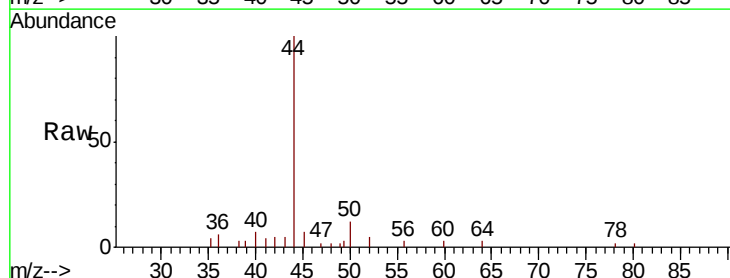
Acq: 08 Apr 2019 19:33

Tgt Ion: 50 Resp: 458

Ion Ratio Lower Upper

50 100

52 38.6 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX008608.D (-21) (-)

Ion 51.90 (51.60 to 52.60): VX008608.D (-21) (-)

1.33

300

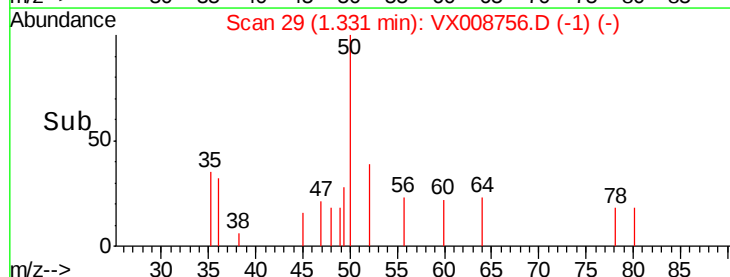
200

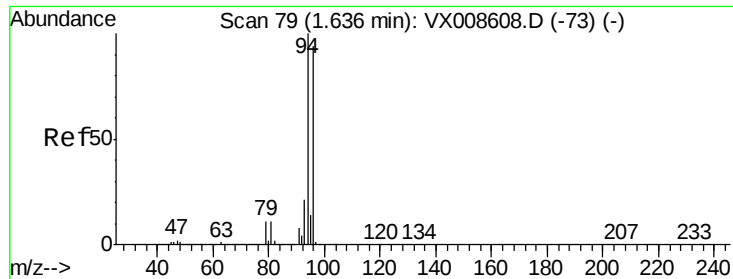
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 2.161 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008756.D

Acq: 08 Apr 2019 19:33

Instrument :

MSVOA_X

ClientSampleId :

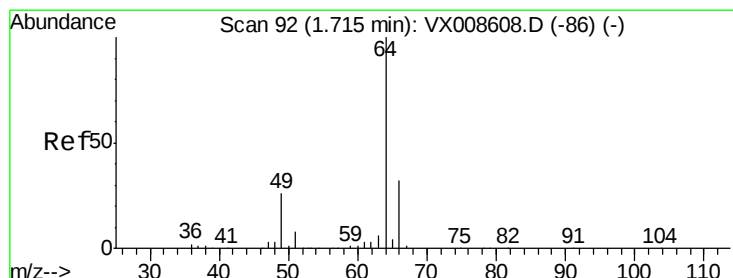
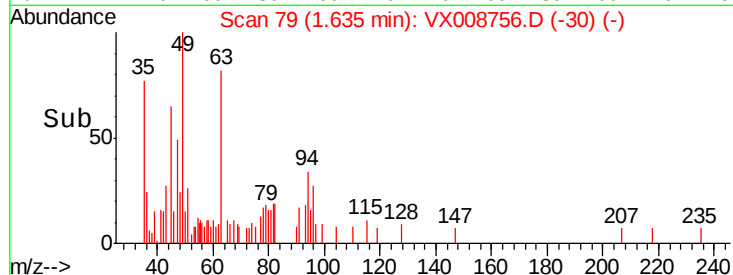
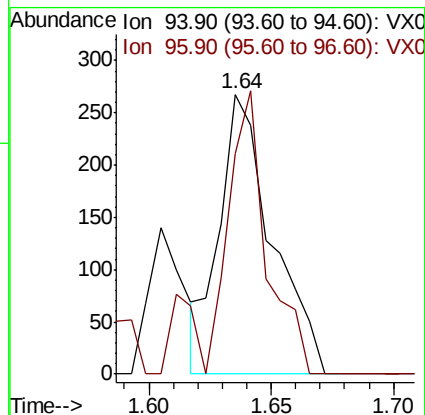
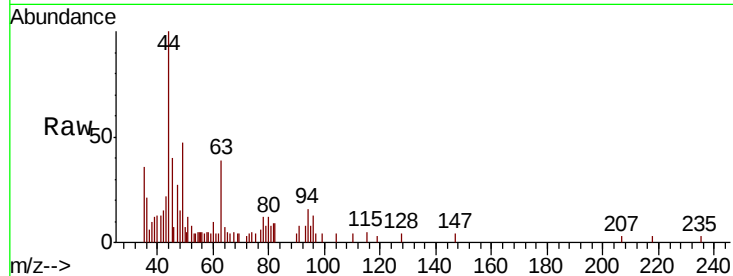
WS040819

Tot Ion: 94 Resp: 402

Ion Ratio Lower Upper

94 100

96 78.7 75.2 112.8



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX008756.D

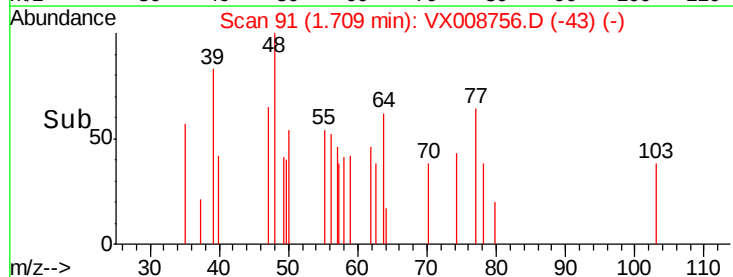
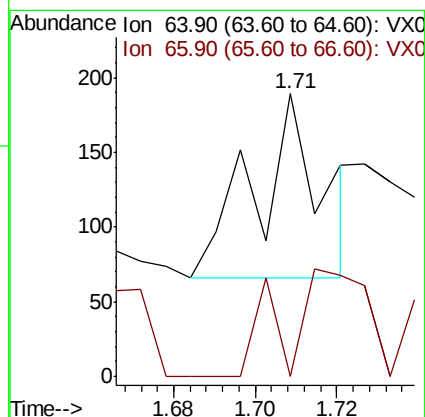
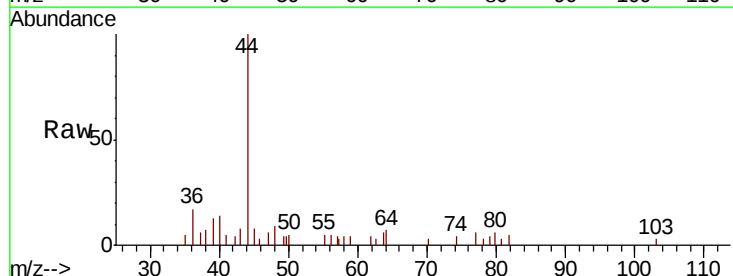
Acq: 08 Apr 2019 19:33

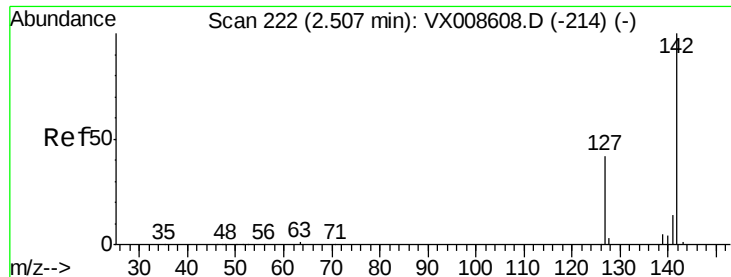
Tgt Ion: 64 Resp: 140

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#

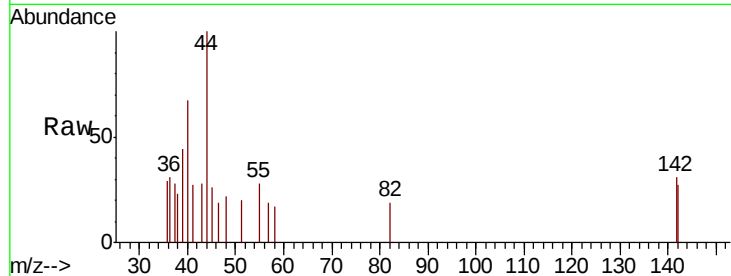




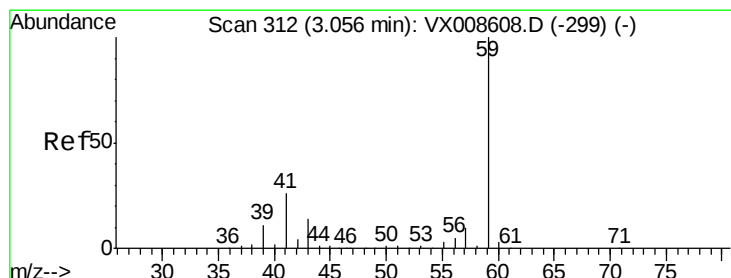
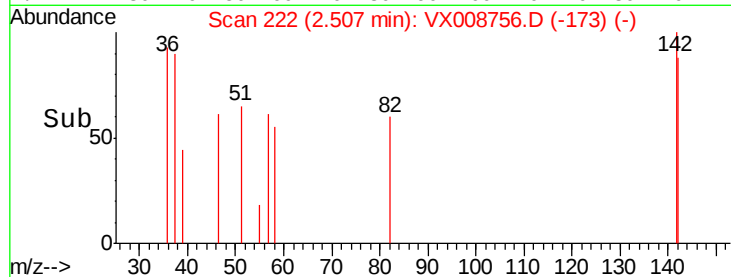
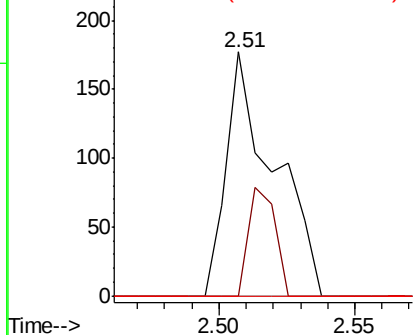
#10
Methyl Iodide
Concen: 4.110 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX008756.D
Acq: 08 Apr 2019 19:33

Instrument :
MSVOA_X
ClientSampled :
WS040819

Tot Ion:142 Resp: 215
Ion Ratio Lower Upper
142 100
127 24.7 33.0 49.6#
141 0.0 11.4 17.2#

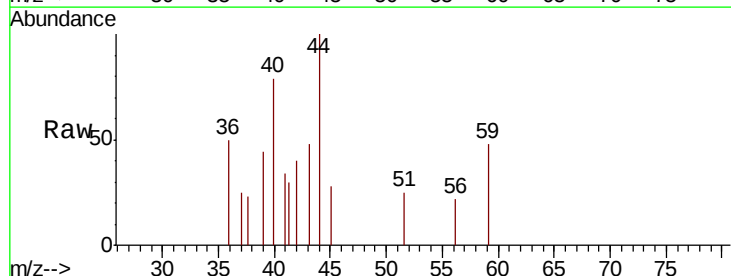


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

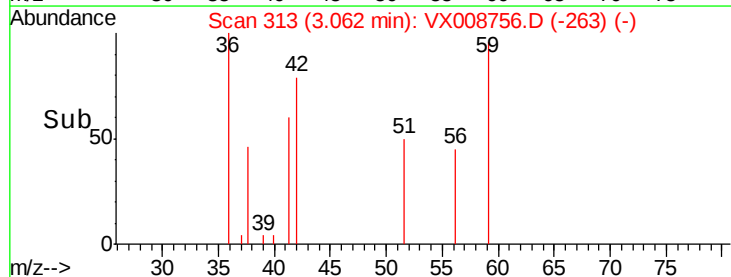
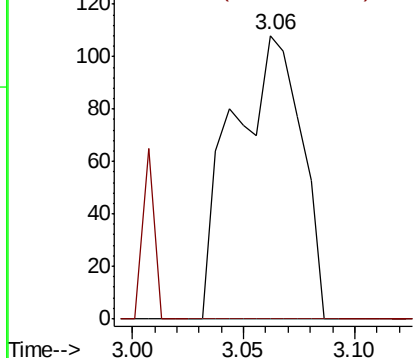


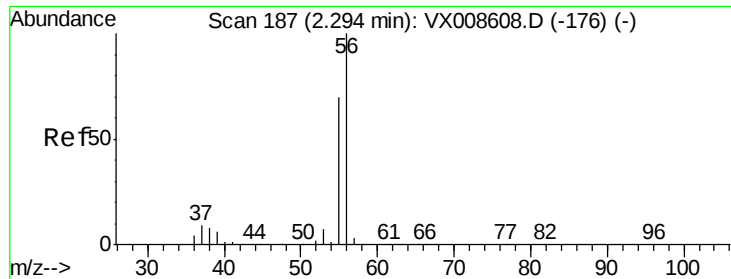
#11
Tert butyl alcohol
Concen: 0.368 ug/l
RT: 3.06 min Scan# 313
Delta R.T. 0.01 min
Lab File: VX008756.D
Acq: 08 Apr 2019 19:33

Tgt Ion: 59 Resp: 230
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



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





#13

Acrolein

Concen: 0.893 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX008756.D

Acq: 08 Apr 2019 19:33

Instrument :

MSVOA_X

ClientSampled :

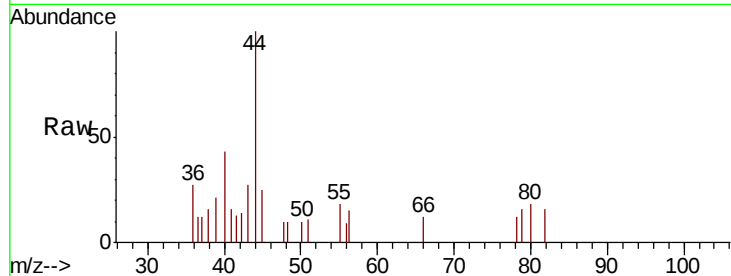
WS040819

Tot Ion: 56 Resp: 277

Ion Ratio Lower Upper

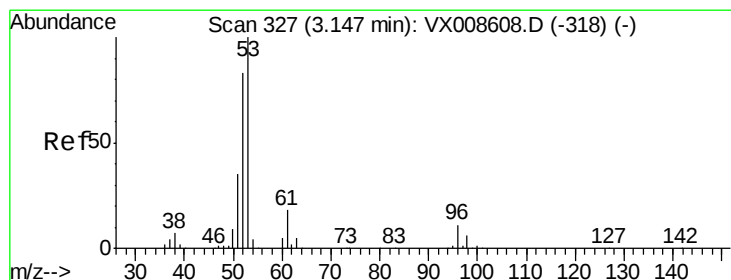
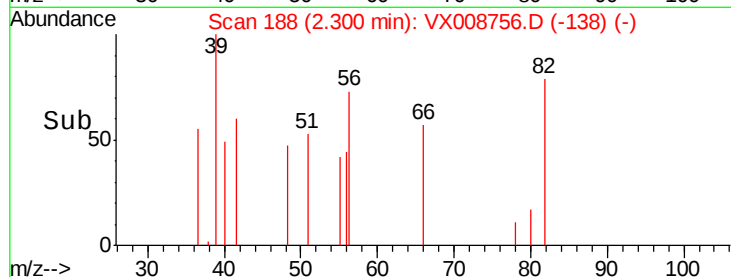
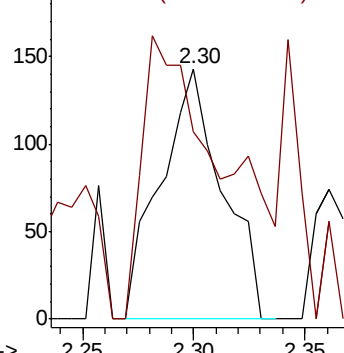
56 100

55 147.7 58.0 87.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.299 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX008756.D

Acq: 08 Apr 2019 19:33

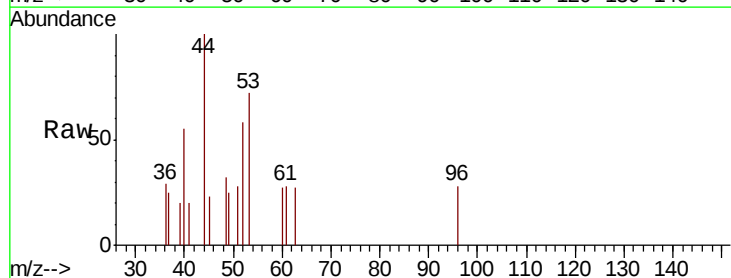
Tgt Ion: 53 Resp: 496

Ion Ratio Lower Upper

53 100

52 84.3 66.5 99.7

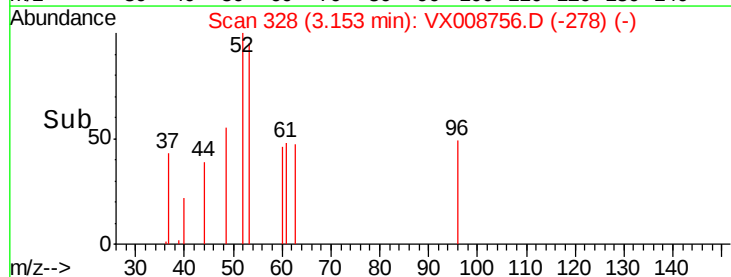
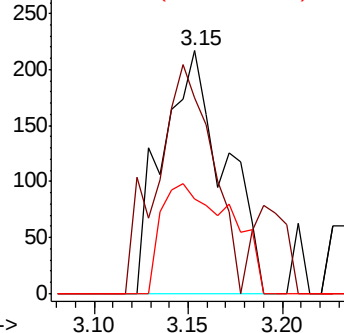
51 50.8 28.6 42.8#

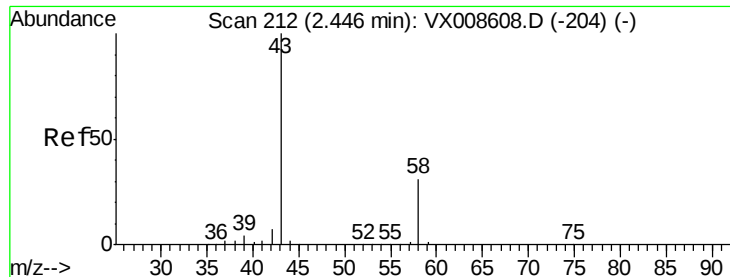


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 0.522 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008756.D

Acq: 08 Apr 2019 19:33

Instrument :

MSVOA_X

ClientSampled :

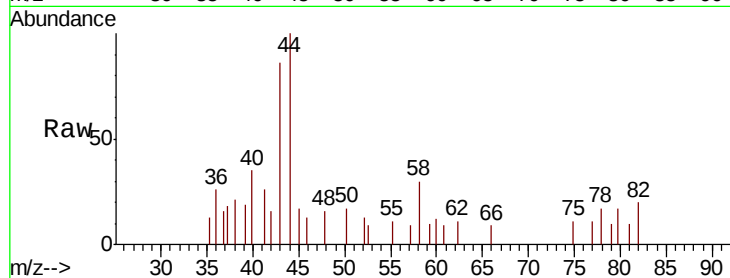
WS040819

Tot Ion: 43 Resp: 804

Ion Ratio Lower Upper

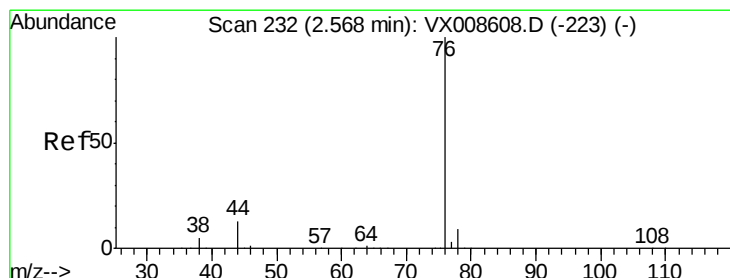
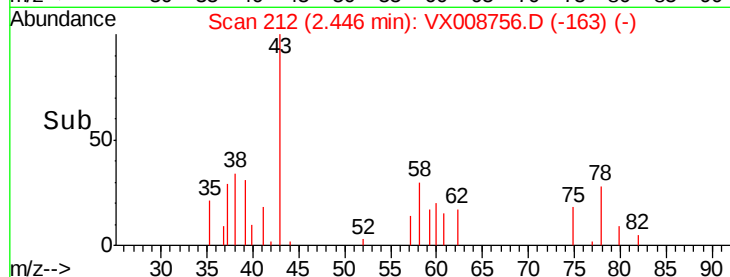
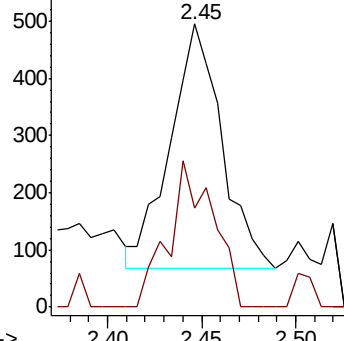
43 100

58 40.6 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX008756.D

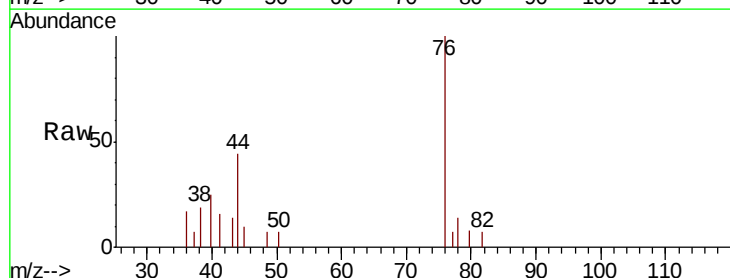
Acq: 08 Apr 2019 19:33

Tgt Ion: 76 Resp: 1508

Ion Ratio Lower Upper

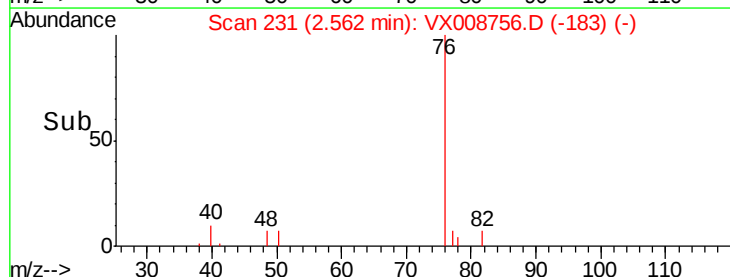
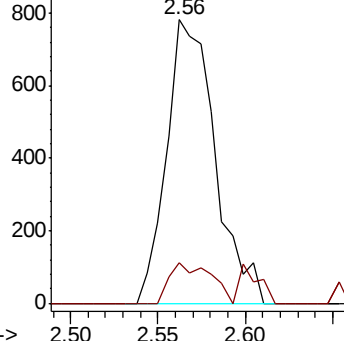
76 100

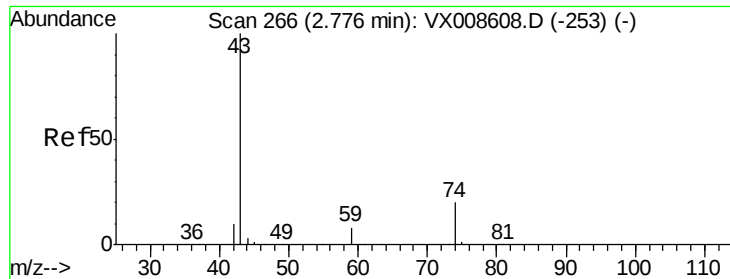
78 14.1 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

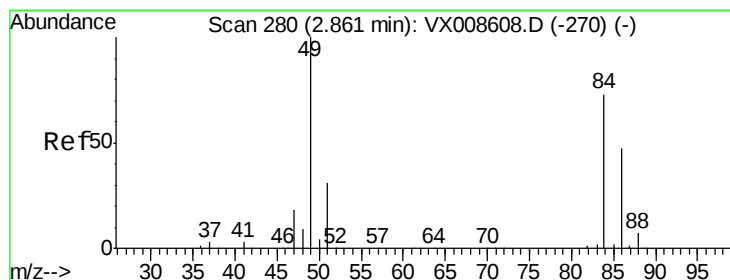
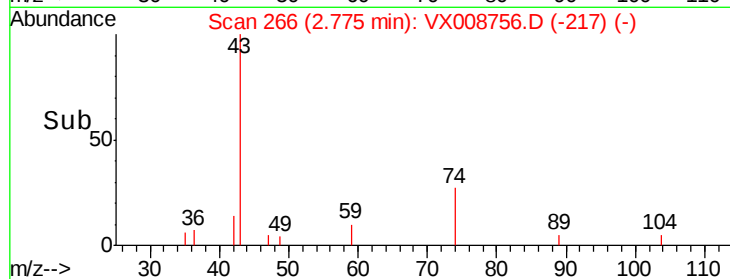
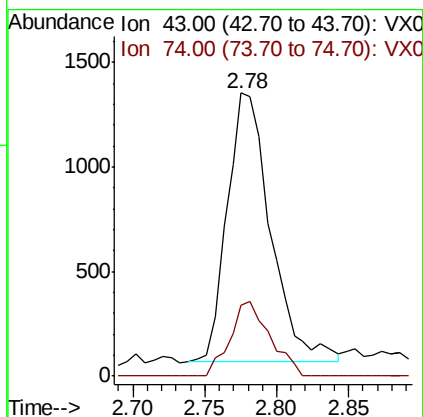
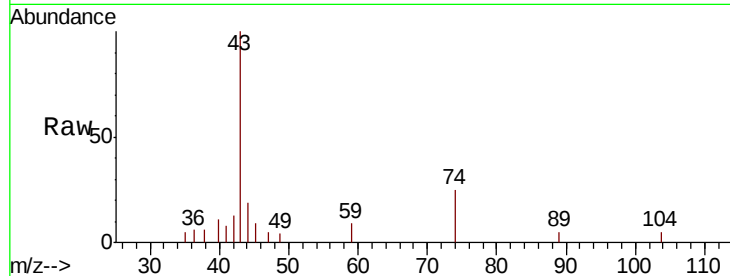




#18
Methvl Acetate
Concen: 0.720 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX008756.D
Acq: 08 Apr 2019 19:33

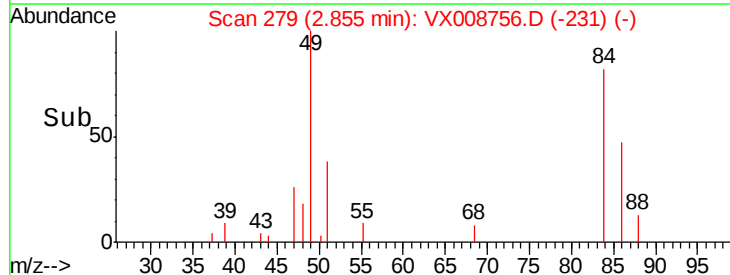
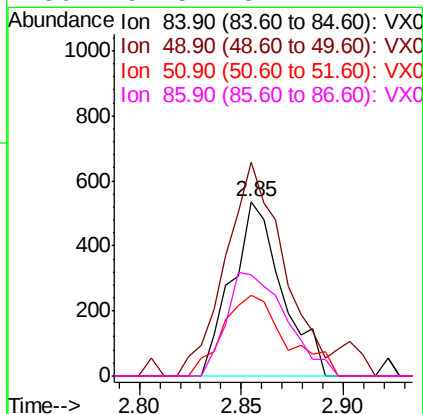
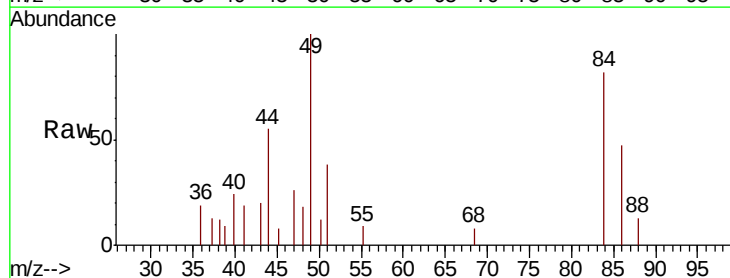
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WS040819

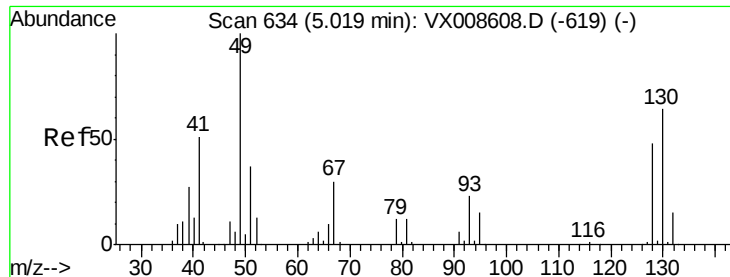
Tot Ion: 43 Resp: 2689
Ion Ratio Lower Upper
43 100
74 25.6 16.5 24.7#



#20
Methylene Chloride
Concen: 0.358 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008756.D
Acq: 08 Apr 2019 19:33

Tgt Ion: 84 Resp: 922
Ion Ratio Lower Upper
84 100
49 111.7 109.7 164.5
51 46.2 33.6 50.4
86 57.5 51.4 77.2





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

Delta R.T. 0.01 min

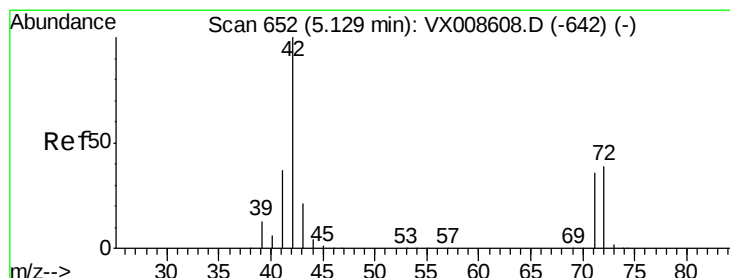
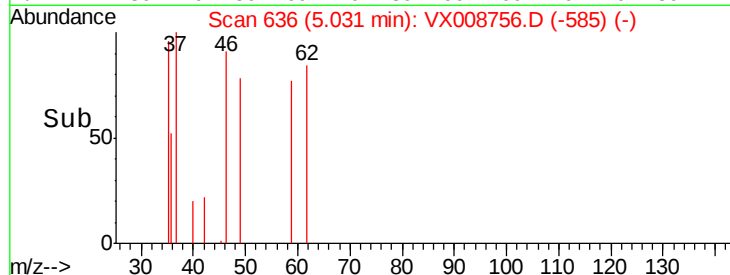
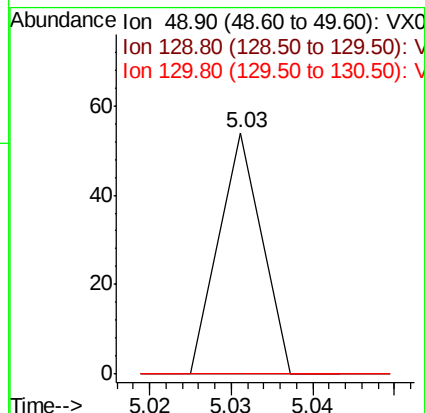
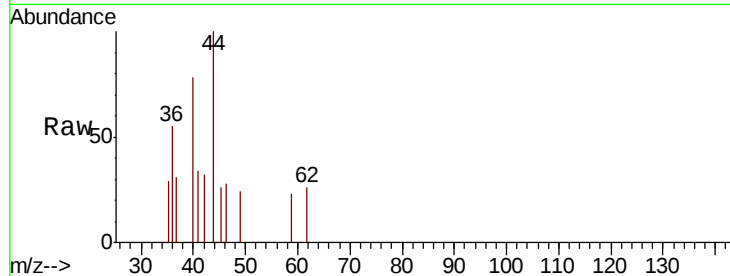
Lab File: VX008756.D

Acq: 08 Apr 2019 19:33

Instrument :
MSVOA_X
ClientSampleId :
WS040819

Tot Ion: 49 Resp: 20

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	49.3	73.9#



#29

Tetrahydrofuran

Concen: 0.284 ug/l

RT: 5.14 min Scan# 654

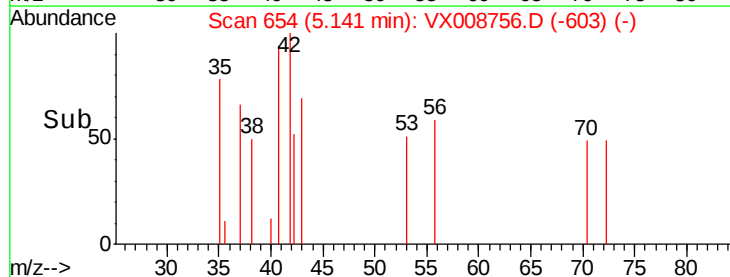
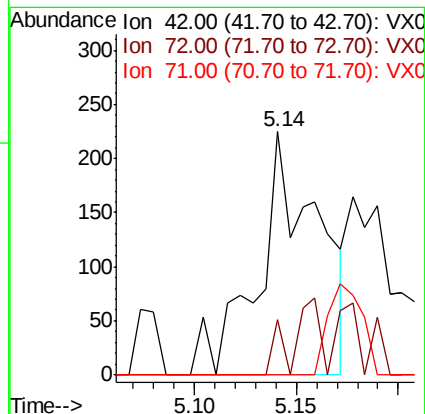
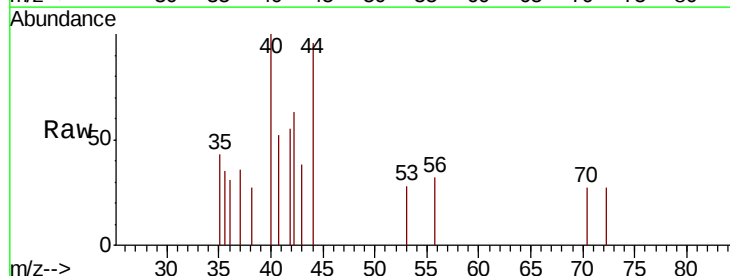
Delta R.T. 0.01 min

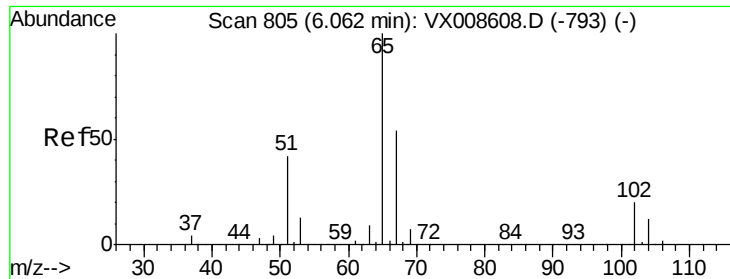
Lab File: VX008756.D

Acq: 08 Apr 2019 19:33

Tgt Ion: 42 Resp: 458

Ion	Ratio	Lower	Upper
42	100		
72	14.6	30.5	45.7#
71	0.0	28.6	43.0#





#33

1,2-Dichloroethane-d4

Concen: 47.083 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX008756.D

Acq: 08 Apr 2019 19:33

Instrument :

MSVOA_X

ClientSampleId :

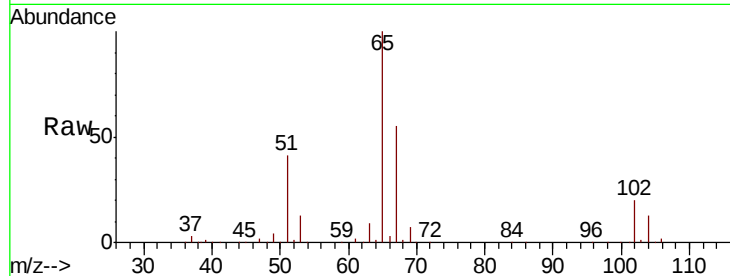
WS040819

Tot Ion: 65 Resp: 125833

Ion Ratio Lower Upper

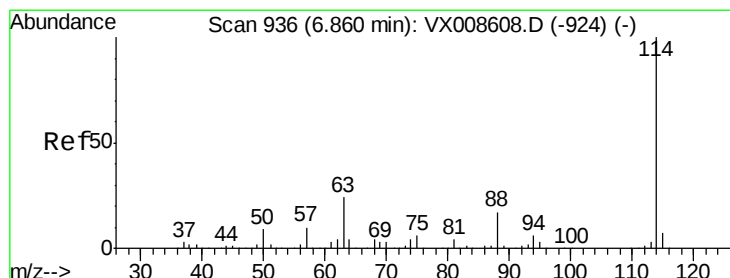
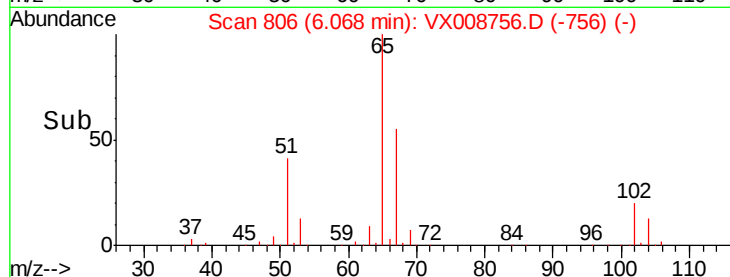
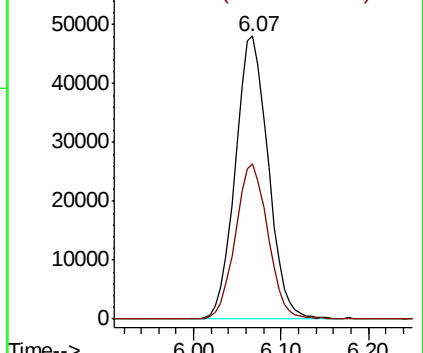
65 100

67 54.5 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008756.D

Acq: 08 Apr 2019 19:33

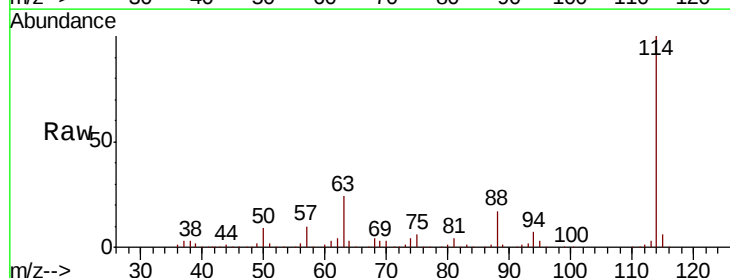
Tgt Ion: 114 Resp: 304166

Ion Ratio Lower Upper

114 100

63 23.8 0.0 47.2

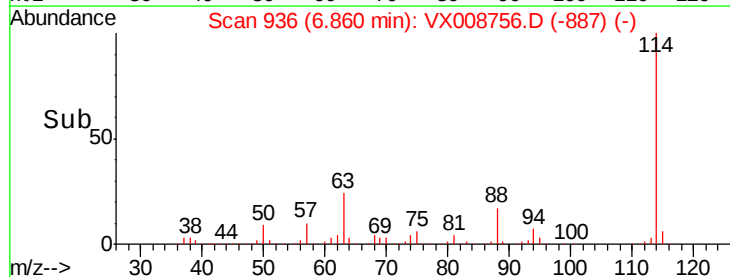
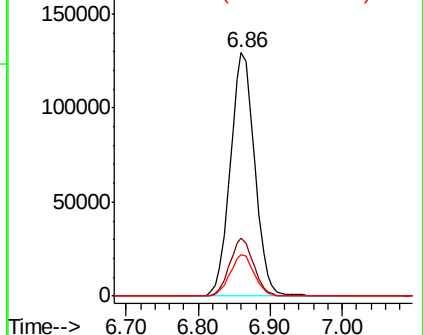
88 17.0 0.0 34.0

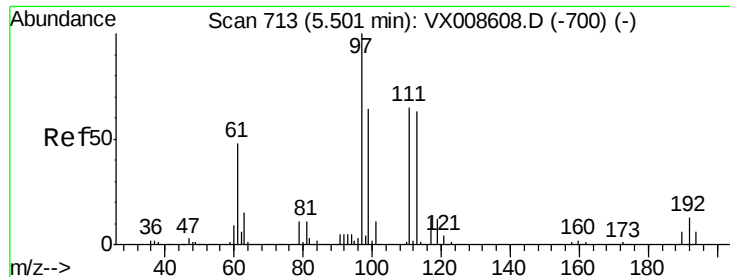


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.784 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008756.D

Acq: 08 Apr 2019 19:33

Instrument :

MSVOA_X

ClientSampleId :

WS040819

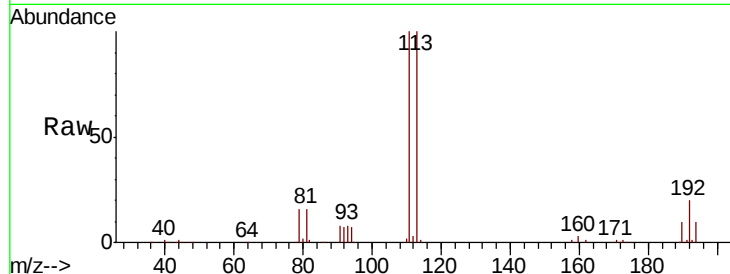
Tot Ion:113 Resp: 92926

Ion Ratio Lower Upper

113 100

111 102.8 83.4 125.2

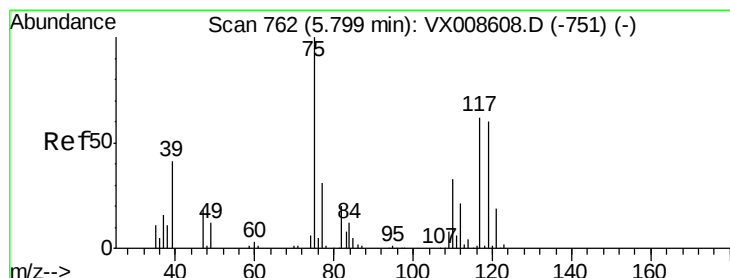
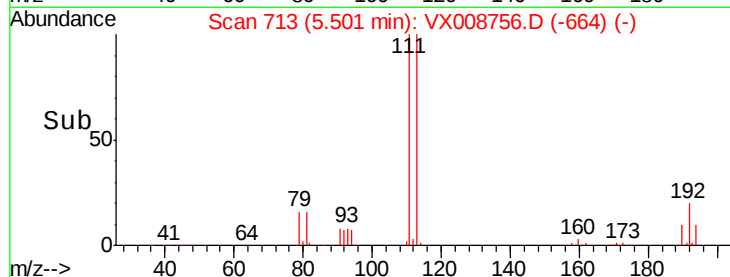
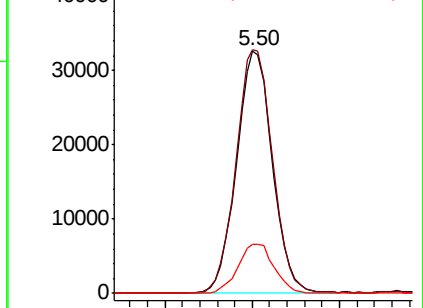
192 20.6 16.1 24.1



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: 4.353 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008756.D

Acq: 08 Apr 2019 19:33

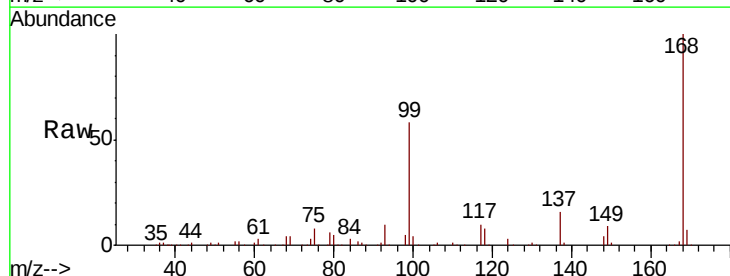
Tgt Ion: 75 Resp: 14474

Ion Ratio Lower Upper

75 100

110 8.4 16.4 49.2#

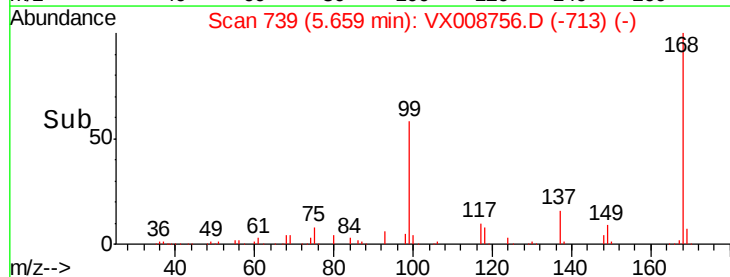
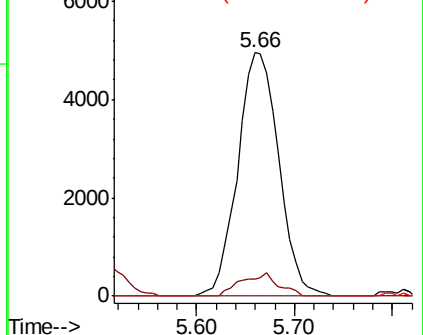
77 0.0 24.7 37.1#

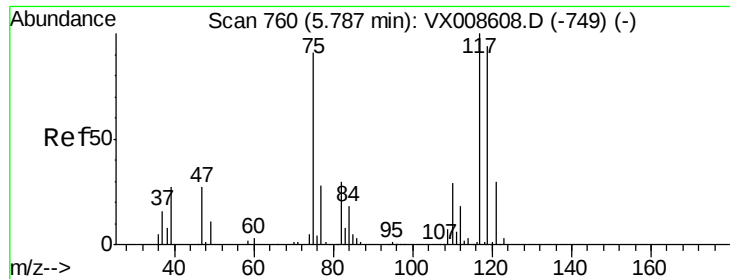


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

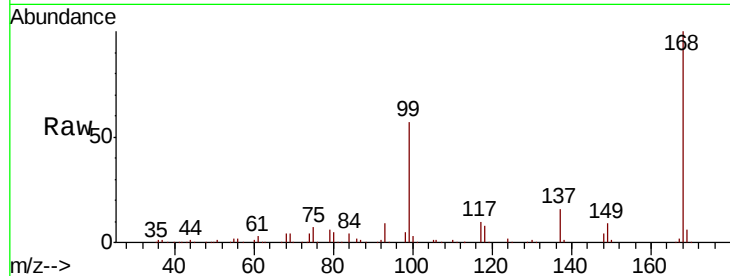




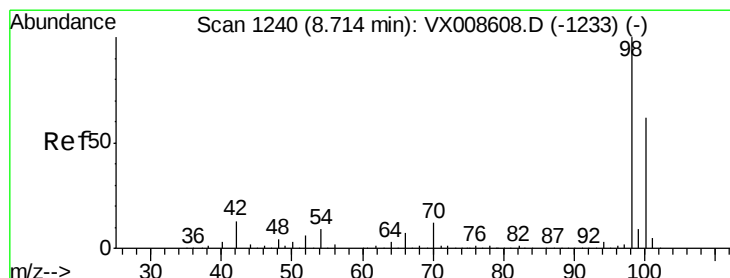
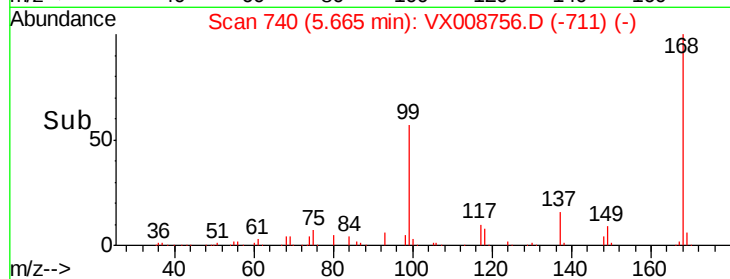
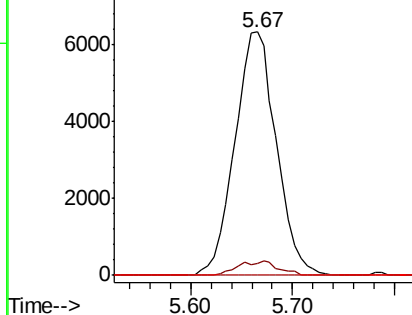
#38
Carbon Tetrachloride
Concen: 6.473 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX008756.D
Acq: 08 Apr 2019 19:33

Instrument :
MSVOA_X
ClientSampleId :
WS040819

Tot Ion:117 Resp: 17814
Ion Ratio Lower Upper
117 100
119 4.9 75.0 112.6#
121 0.0 24.3 36.5#

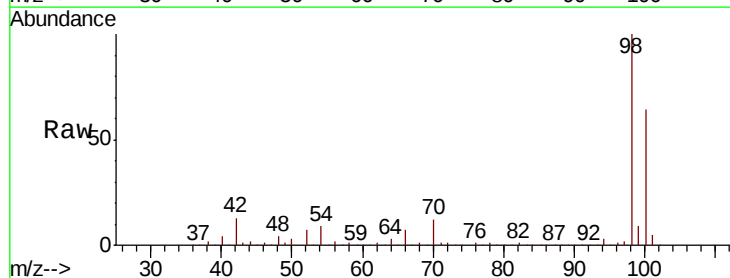


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

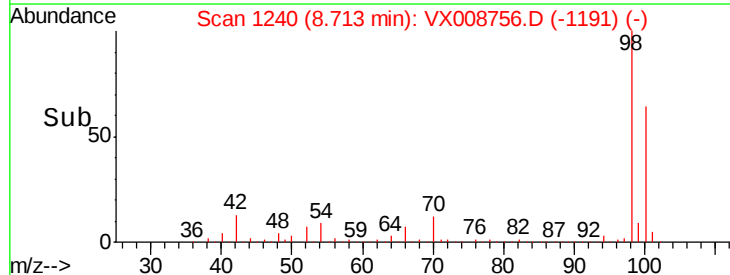
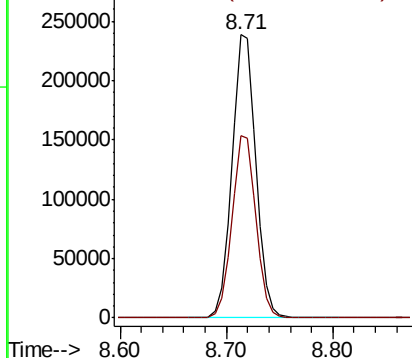


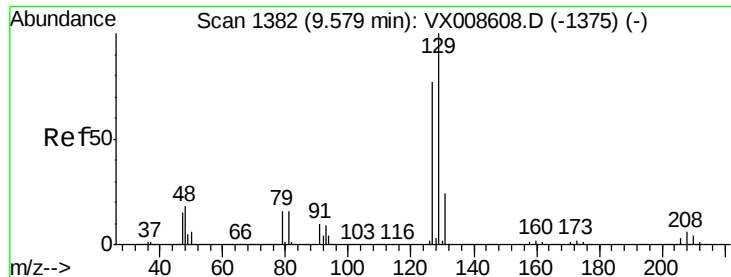
#50
Toluene-d8
Concen: 48.638 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008756.D
Acq: 08 Apr 2019 19:33

Tgt Ion: 98 Resp: 376620
Ion Ratio Lower Upper
98 100
100 64.2 51.4 77.0



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





#60

Dibromochloromethane

Concen: 0.202 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008756.D

Acq: 08 Apr 2019 19:33

Instrument :

MSVOA_X

ClientSampleId :

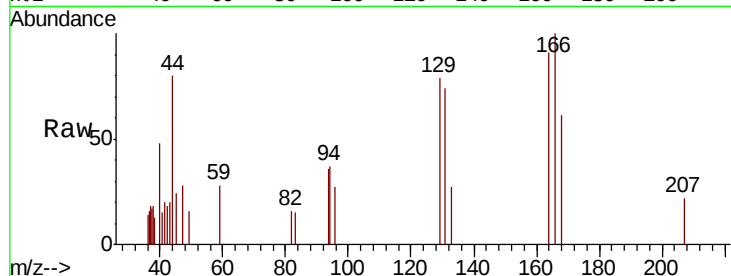
WS040819

Tot Ion:129 Resp: 447

Ion Ratio Lower Upper

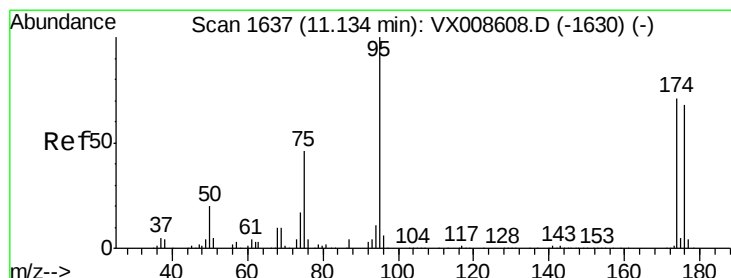
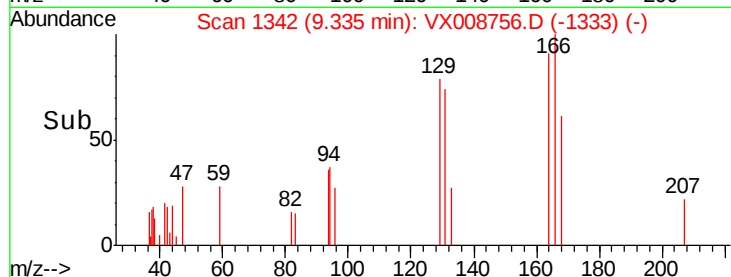
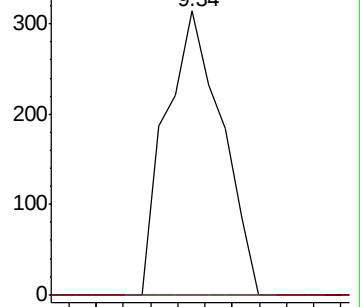
129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.914 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX008756.D

Acq: 08 Apr 2019 19:33

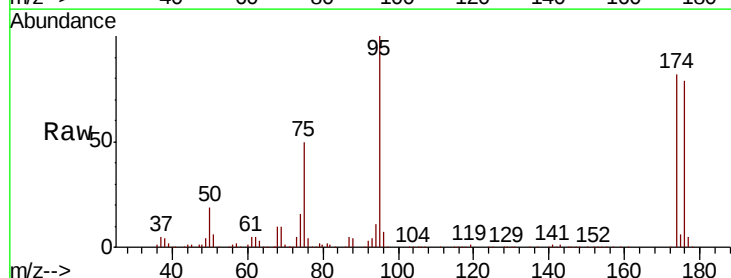
Tgt Ion: 95 Resp: 123331

Ion Ratio Lower Upper

95 100

174 76.9 0.0 151.8

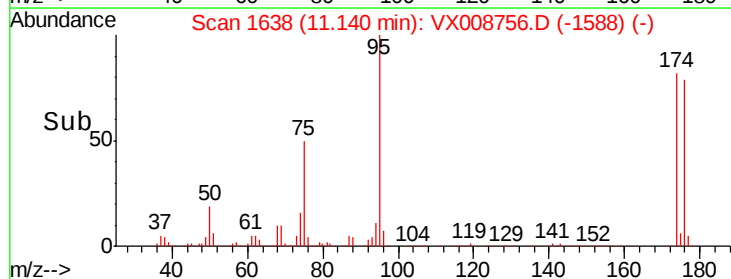
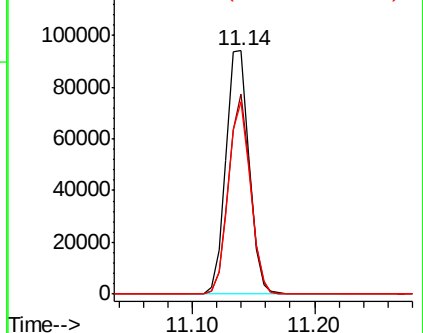
176 75.0 0.0 145.8

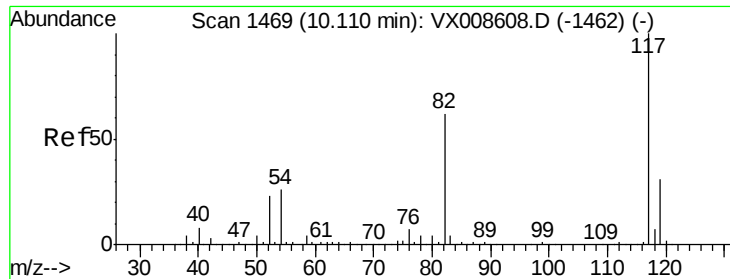


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

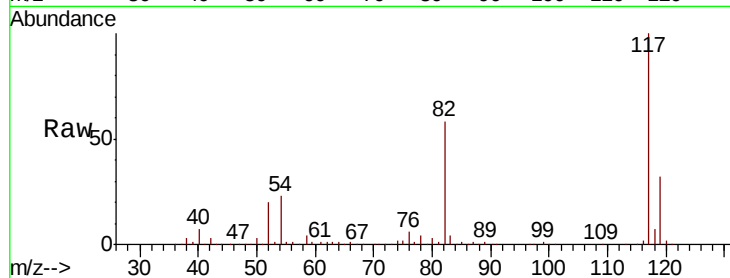




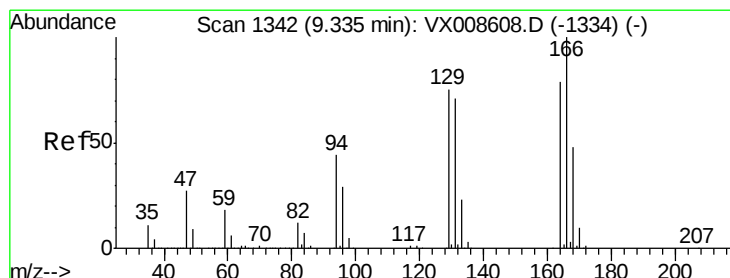
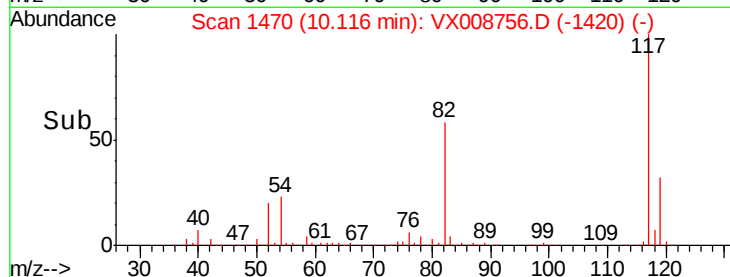
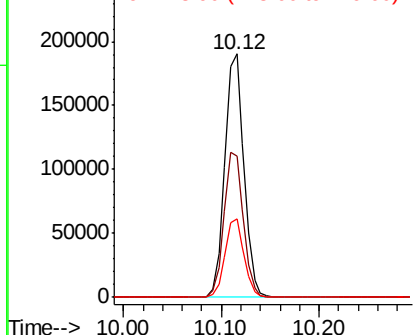
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008756.D
Acq: 08 Apr 2019 19:33

Instrument :
MSVOA_X
ClientSampleId :
WS040819

Tot Ion:117 Resp: 258697
Ion Ratio Lower Upper
117 100
82 57.9 49.6 74.4
119 32.2 25.0 37.4

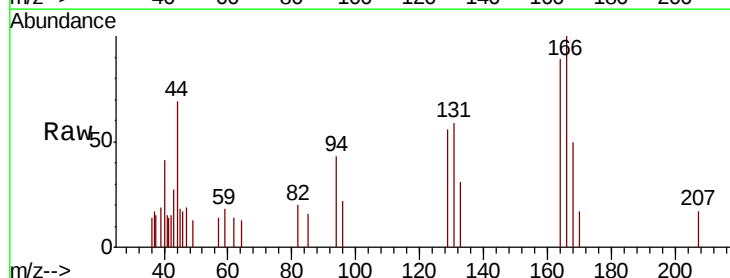


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

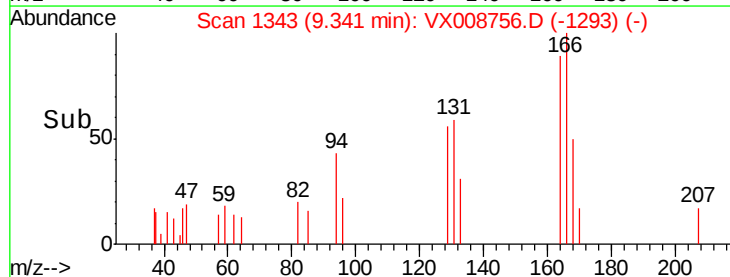
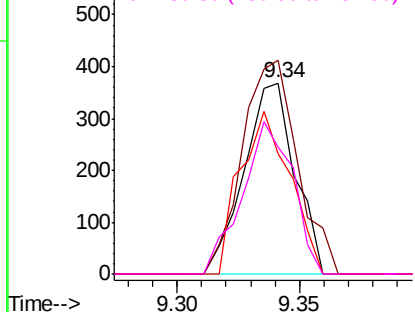


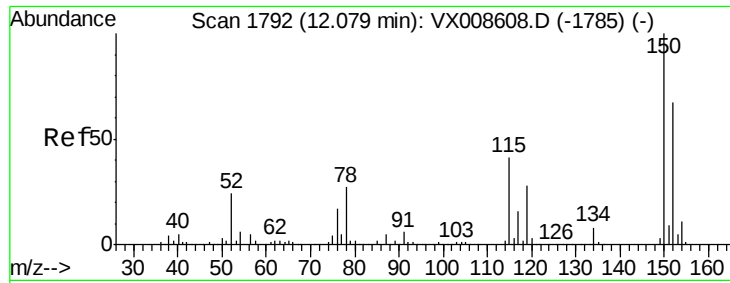
#64
Tetrachloroethene
Concen: 0.280 ug/l
RT: 9.34 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VX008756.D
Acq: 08 Apr 2019 19:33

Tgt Ion:164 Resp: 536
Ion Ratio Lower Upper
164 100
166 112.0 101.0 151.6
129 63.0 75.8 113.8#
131 66.6 71.8 107.8#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008756.D

Acq: 08 Apr 2019 19:33

Instrument :

MSVOA_X

ClientSampleId :

WS040819

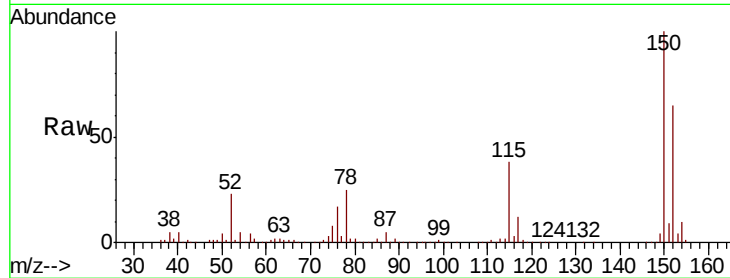
Tot Ion:152 Resp: 107639

Ion Ratio Lower Upper

152 100

115 59.8 43.5 130.5

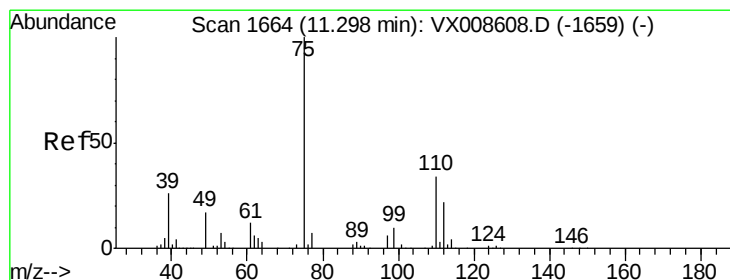
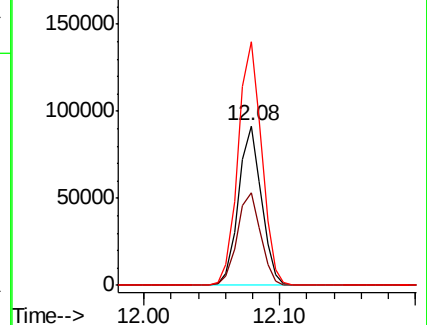
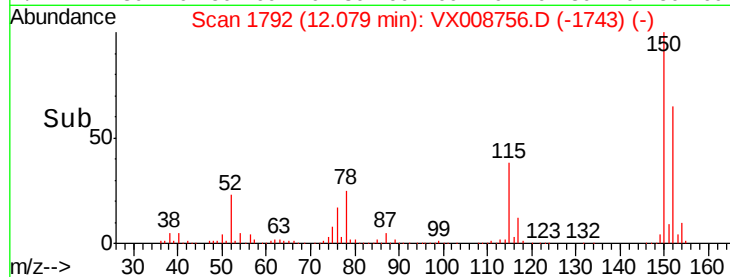
150 156.8 0.0 348.8



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: 21.293 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008756.D

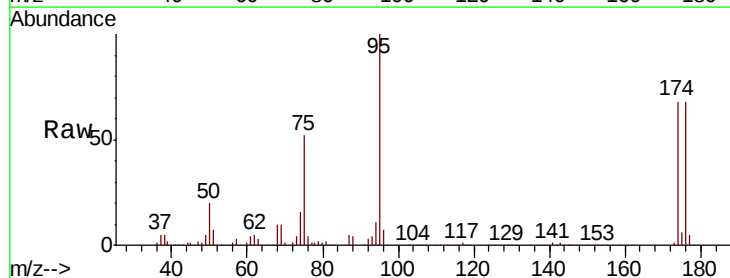
Acq: 08 Apr 2019 19:33

Tgt Ion: 75 Resp: 62963

Ion Ratio Lower Upper

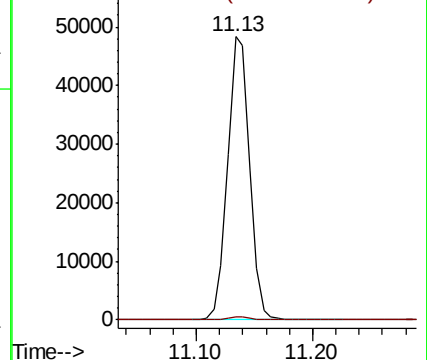
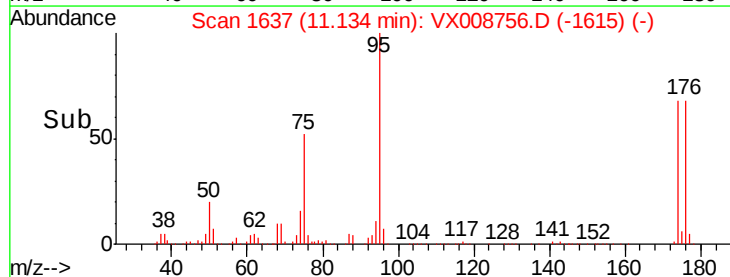
75 100

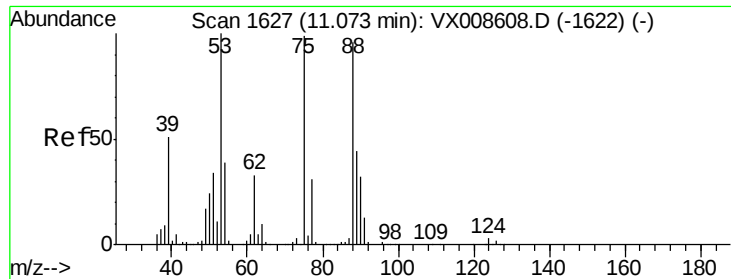
77 1.2 22.3 66.8#



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: 58.696 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008756.D

Acq: 08 Apr 2019 19:33

Instrument :

MSVOA_X

ClientSampleId :

WS040819

Tot Ion: 75 Resp: 62963

Ion Ratio Lower Upper

75 100

53 0.1 81.3 121.9#

89 0.0 35.6 53.4#

