

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040619\
 Data File : VX008715.D
 Acq On : 06 Apr 2019 13:08
 Operator : JC/SP
 Sample : K2306-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-TB-20190404

Quant Time: Apr 08 01:52:43 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	208100	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	343863	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	301630	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	126015	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	142675	47.01	ug/l	0.00
Spiked Amount						
			Recovery	=	94.02%	
35) Dibromofluoromethane	5.50	113	103695	47.17	ug/l	0.00
Spiked Amount						
			Recovery	=	94.34%	
50) Toluene-d8	8.71	98	433026	49.47	ug/l	0.00
Spiked Amount						
			Recovery	=	98.94%	
62) 4-Bromofluorobenzene	11.13	95	145940	47.01	ug/l	0.00
Spiked Amount						
			Recovery	=	94.02%	

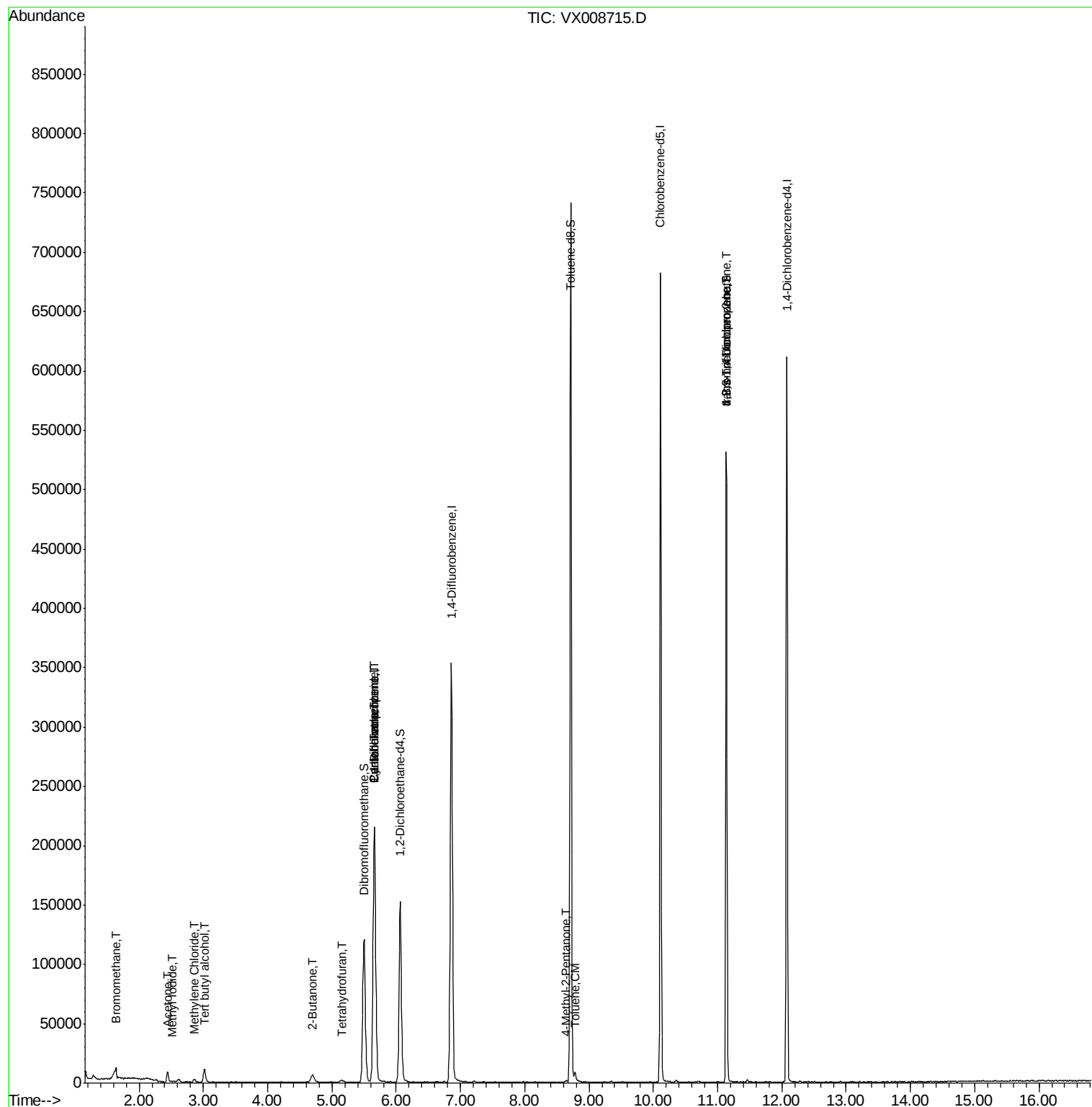
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	645	Below Cal	#	73
5) Bromomethane	1.64	94	481	2.175	ug/l	99
6) Chloroethane	1.74	64	1442	Below Cal	#	43
10) Methyl Iodide	2.52	142	91	4.043	ug/l #	81
11) Tert butyl alcohol	3.02	59	6738	9.482	ug/l #	81
16) Acetone	2.44	43	9850	5.634	ug/l	95
17) Carbon Disulfide	2.57	76	582	Below Cal	#	72
20) Methylene Chloride	2.85	84	1010	0.345	ug/l #	75
25) 2-Butanone	4.69	43	2446	0.885	ug/l #	88
28) Bromochloromethane	5.02	49	91	Below Cal	#	22
29) Tetrahydrofuran	5.15	42	1783	0.972	ug/l #	74
31) Cyclohexane	5.66	56	4649	0.886	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16879	4.491	ug/l #	51
38) Carbon Tetrachloride	5.66	117	20144	6.475	ug/l #	17
51) 4-Methyl-2-Pentanone	8.64	43	1093	0.216	ug/l	98
52) Toluene	8.78	92	2118	0.321	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	73701	21.290	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	73701	58.687	ug/l #	9

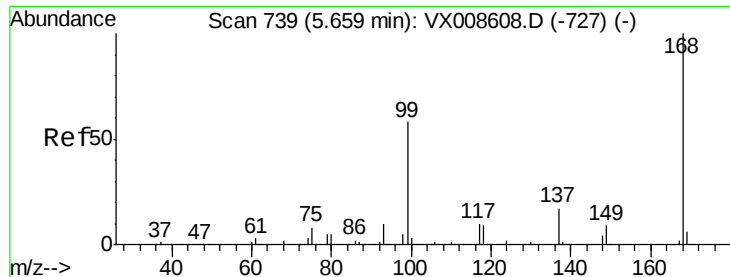
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX008715.D

Acq: 06 Apr 2019 13:08

Instrument :

MSVOA_X

ClientSampleId :

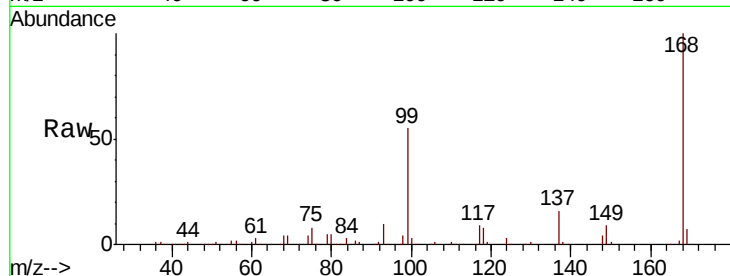
TT-TB-20190404

Tot Ion:168 Resp: 208100

Ion Ratio Lower Upper

168 100

99 55.4 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

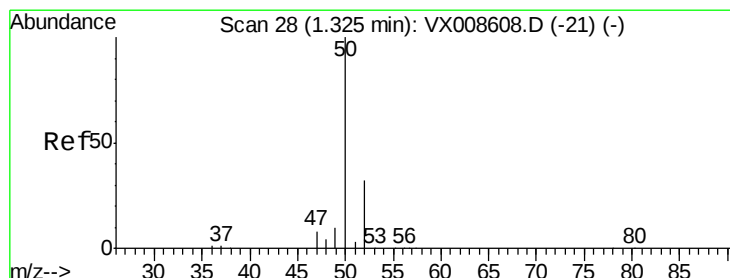
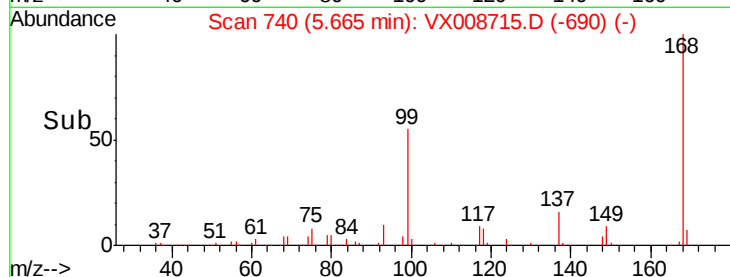
40000

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: VX008715.D

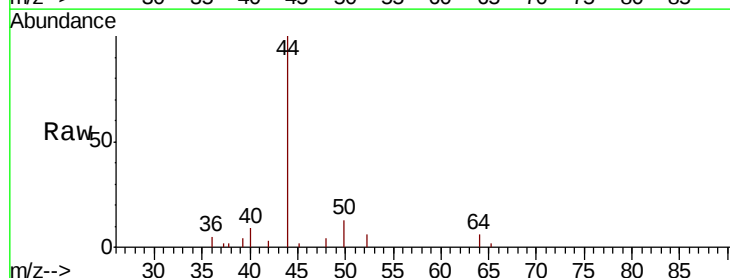
Acq: 06 Apr 2019 13:08

Tgt Ion: 50 Resp: 645

Ion Ratio Lower Upper

50 100

52 47.6 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

300

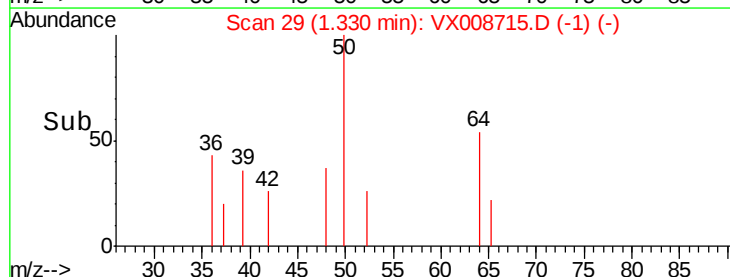
200

100

0

Time-->

1.25 1.30 1.35 1.40





#5

Bromomethane

Concen: 2.175 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008715.D

Acq: 06 Apr 2019 13:08

Instrument :

MSVOA_X

ClientSampleId :

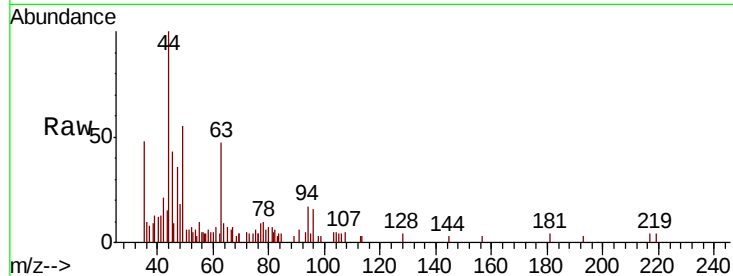
TT-TB-20190404

Tot Ion: 94 Resp: 481

Ion Ratio Lower Upper

94 100

96 93.4 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

200

100

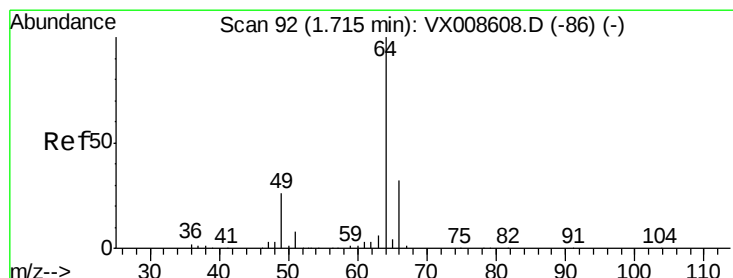
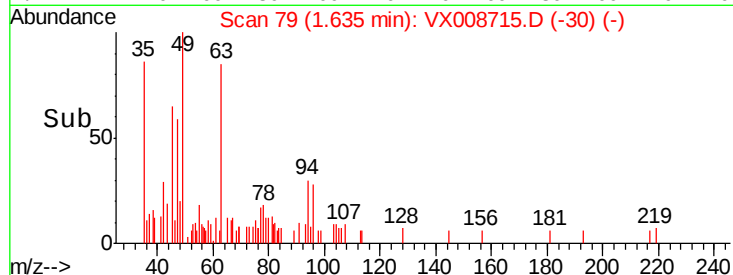
0

1.60

1.65

1.70

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX008715.D

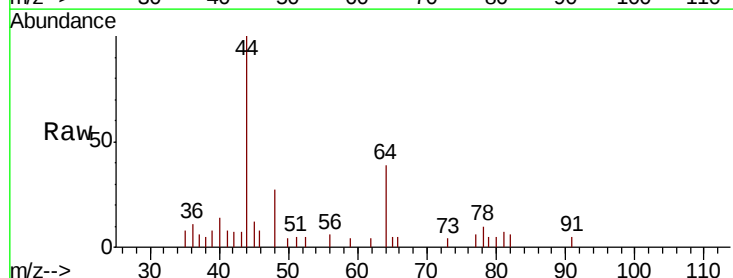
Acq: 06 Apr 2019 13:08

Tgt Ion: 64 Resp: 1442

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

800

600

400

200

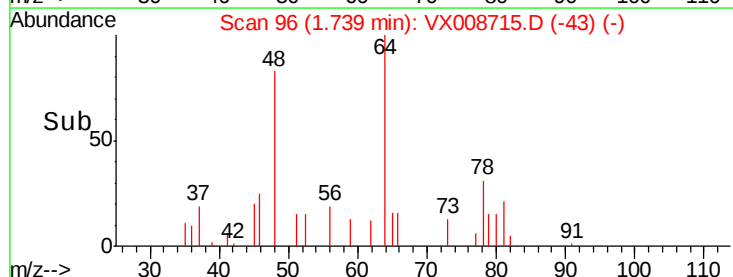
0

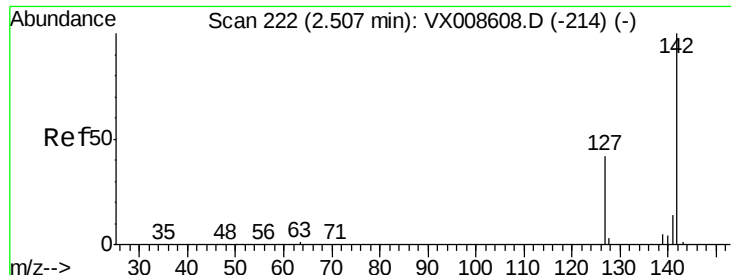
1.65

1.70

1.75

Time-->

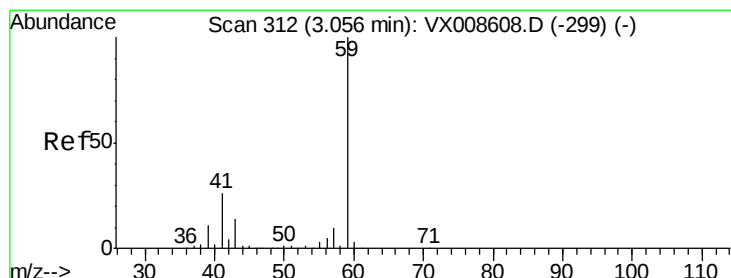
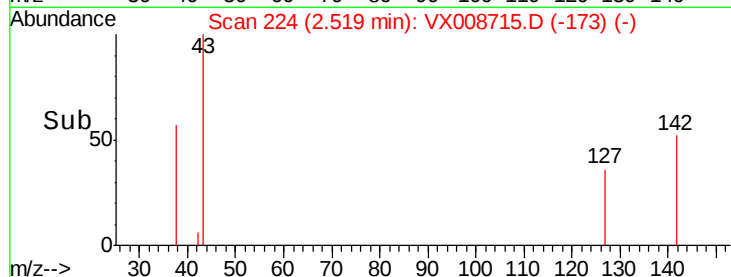
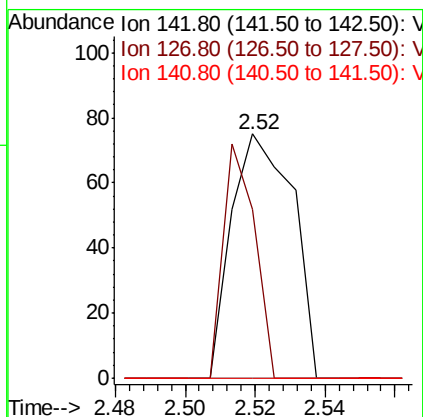
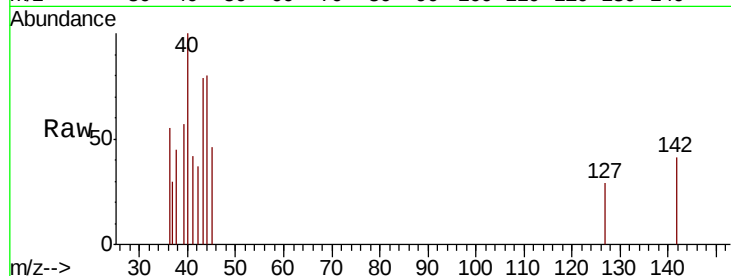




#10
Methvl Iodide
Concen: 4.043 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX008715.D
Acq: 06 Apr 2019 13:08

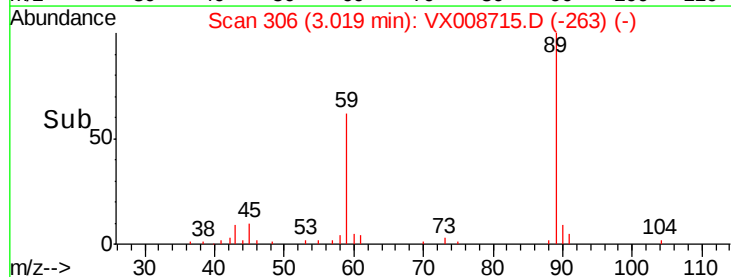
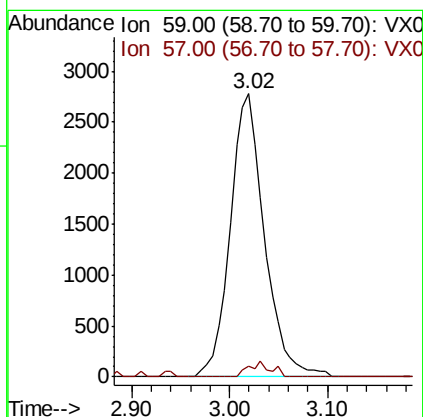
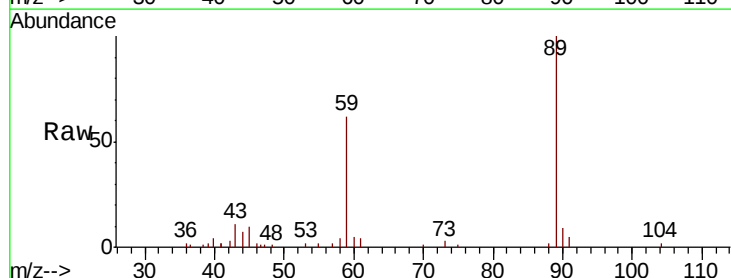
Instrument :
MSVOA_X
ClientSampleId :
TT-TB-20190404

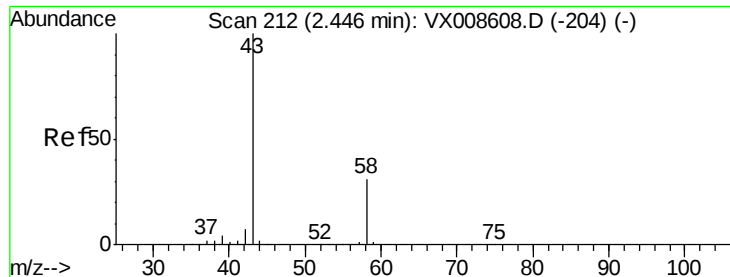
Tot Ion:142 Resp: 91
Ion Ratio Lower Upper
142 100
127 49.5 33.0 49.6
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 9.482 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.04 min
Lab File: VX008715.D
Acq: 06 Apr 2019 13:08

Tgt Ion: 59 Resp: 6738
Ion Ratio Lower Upper
59 100
57 3.4 8.3 12.5#





#16

Acetone

Concen: 5.634 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008715.D

Acq: 06 Apr 2019 13:08

Instrument :

MSVOA_X

ClientSampleId :

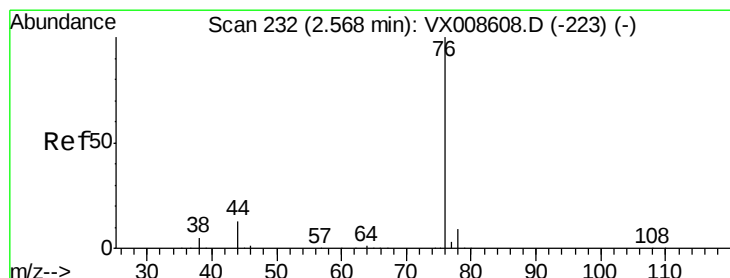
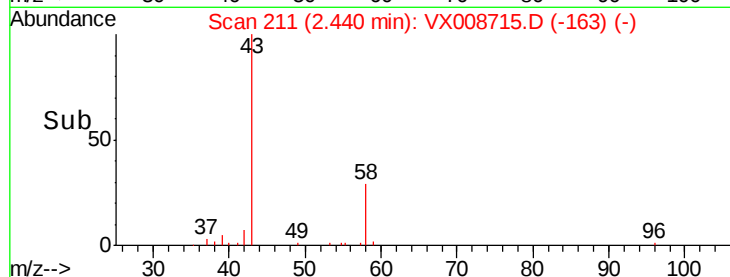
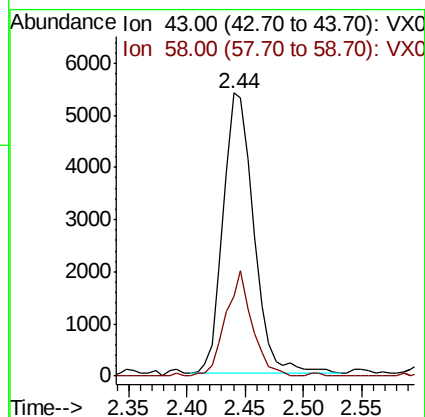
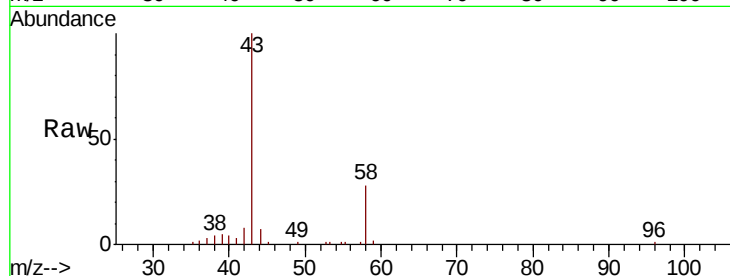
TT-TB-20190404

Tot Ion: 43 Resp: 9850

Ion Ratio Lower Upper

43 100

58 28.4 24.8 37.2



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008715.D

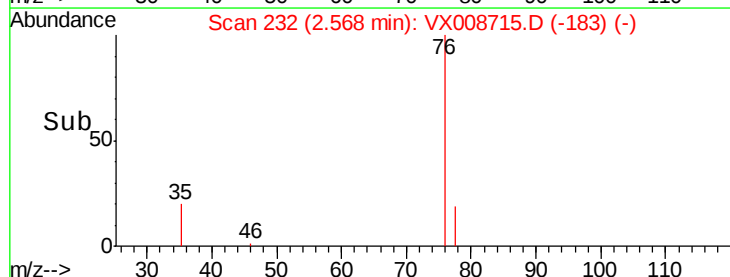
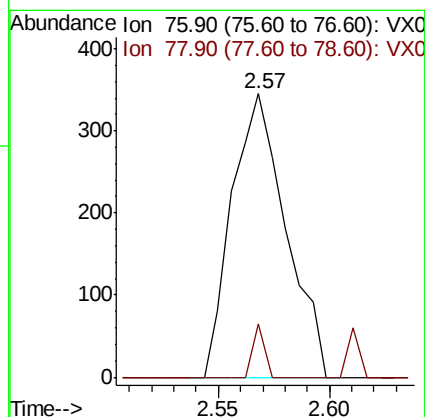
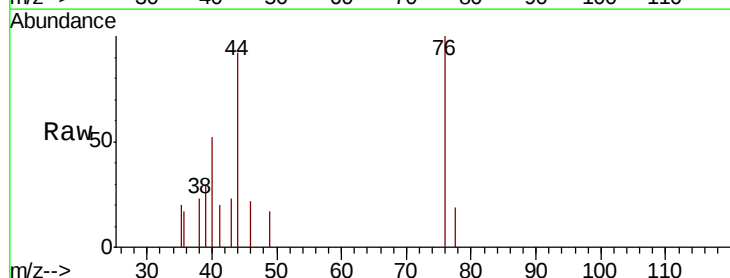
Acq: 06 Apr 2019 13:08

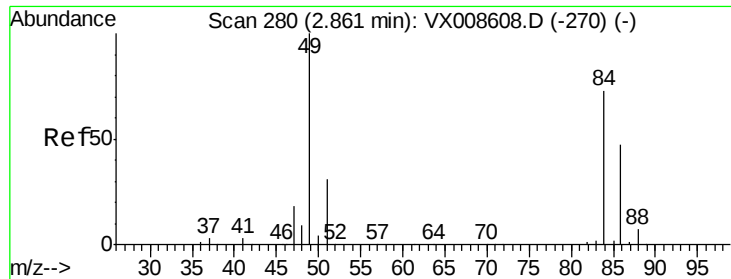
Tgt Ion: 76 Resp: 582

Ion Ratio Lower Upper

76 100

78 18.8 7.1 10.7#

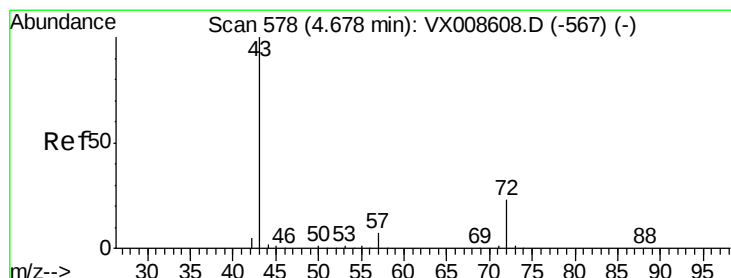
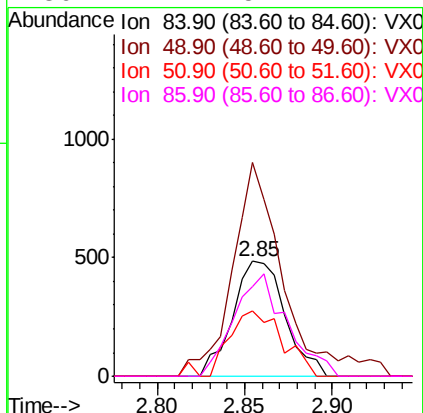
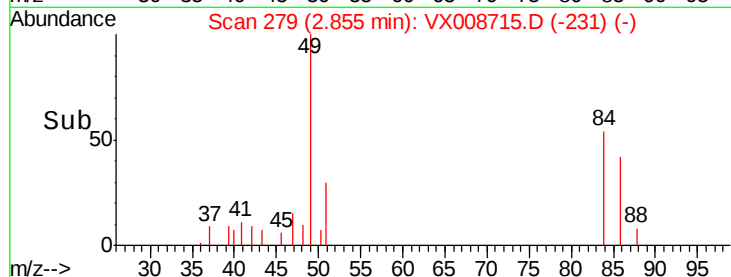
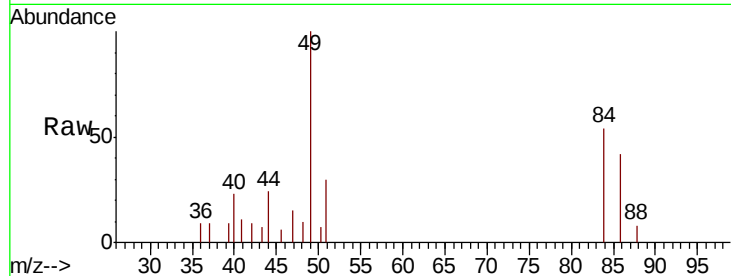




#20
Methvlene Chloride
Concen: 0.345 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008715.D
Acq: 06 Apr 2019 13:08

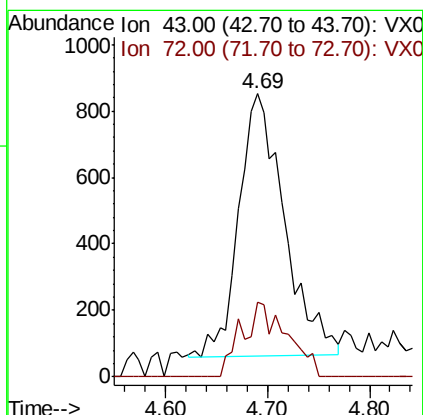
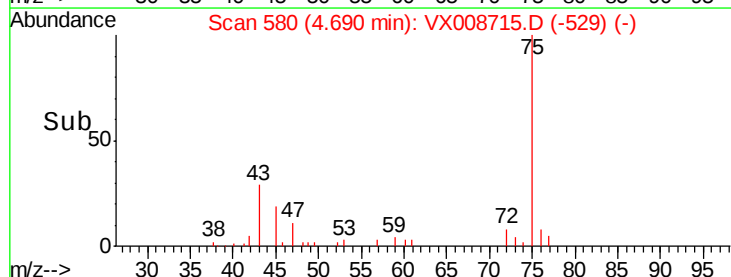
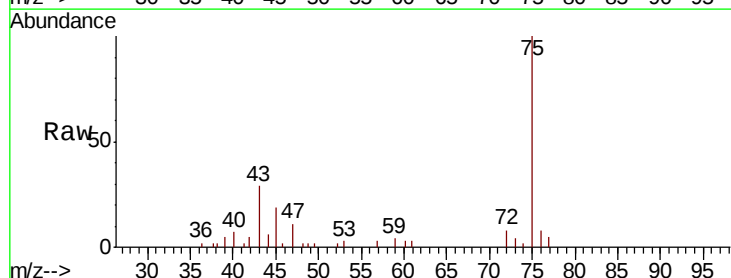
Instrument :
MSVOA_X
ClientSampled :
TT-TB-20190404

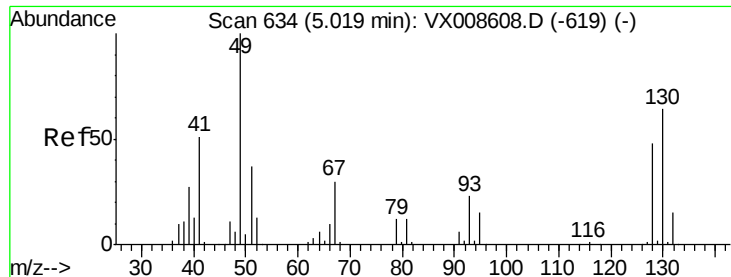
Tot Ion: 84 Resp: 1010
Ion Ratio Lower Upper
84 100
49 172.0 109.7 164.5#
51 56.3 33.6 50.4#
86 77.7 51.4 77.2#



#25
2-Butanone
Concen: 0.885 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.01 min
Lab File: VX008715.D
Acq: 06 Apr 2019 13:08

Tgt Ion: 43 Resp: 2446
Ion Ratio Lower Upper
43 100
72 28.4 18.2 27.4#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX008715.D

Acq: 06 Apr 2019 13:08

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20190404

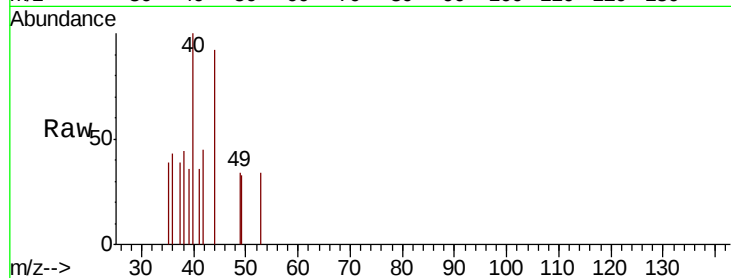
Tot Ion: 49 Resp: 91

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

150

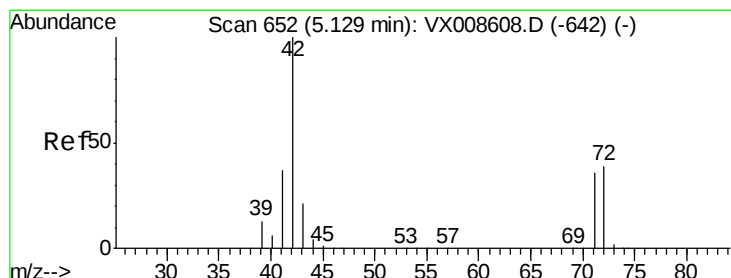
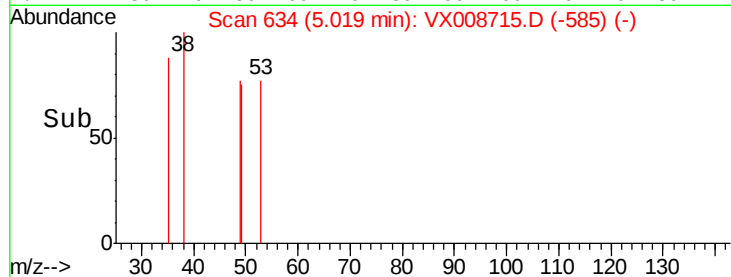
100

50

0

4.98 5.00 5.02 5.04

Time-->



#29

Tetrahydrofuran

Concen: 0.972 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX008715.D

Acq: 06 Apr 2019 13:08

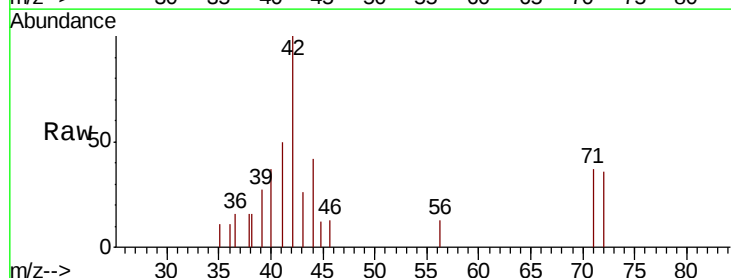
Tgt Ion: 42 Resp: 1783

Ion Ratio Lower Upper

42 100

72 13.7 30.5 45.7#

71 29.1 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

600

500

400

300

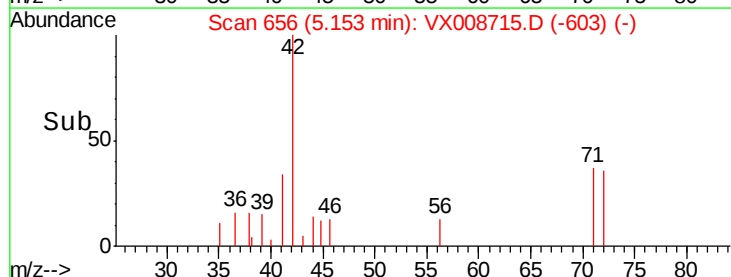
200

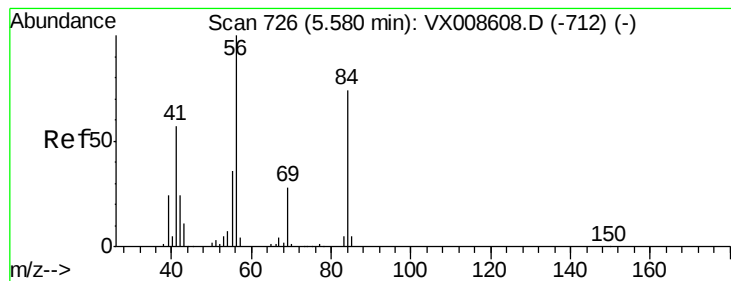
100

0

5.10 5.20

Time-->





#31

Cyclohexane

Concen: 0.886 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008715.D

Acq: 06 Apr 2019 13:08

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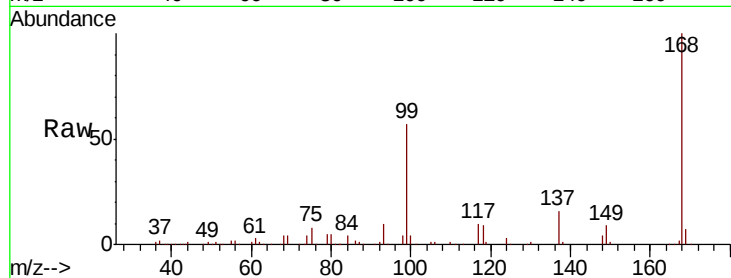
Tot Ion: 56 Resp: 4649

Ion Ratio Lower Upper

56 100

69 192.3 22.6 33.8#

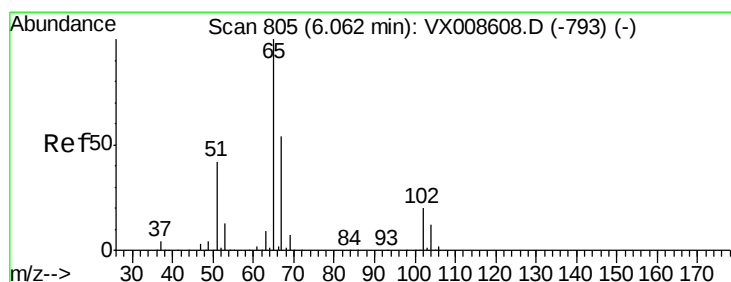
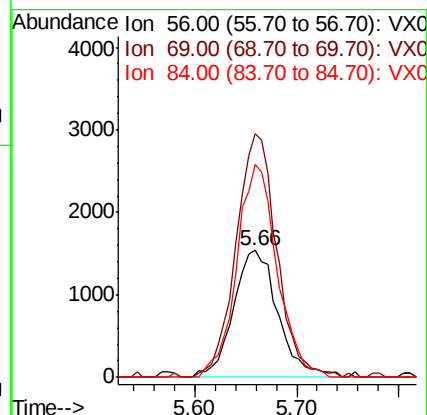
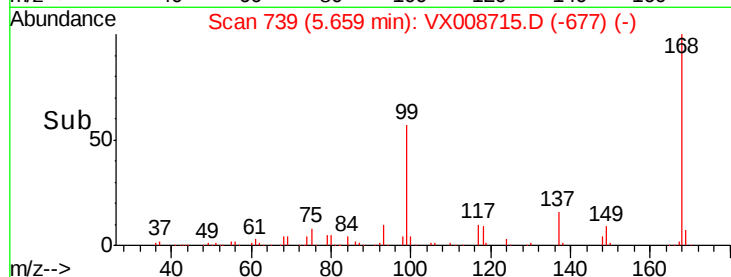
84 168.3 59.3 88.9#



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: 47.006 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008715.D

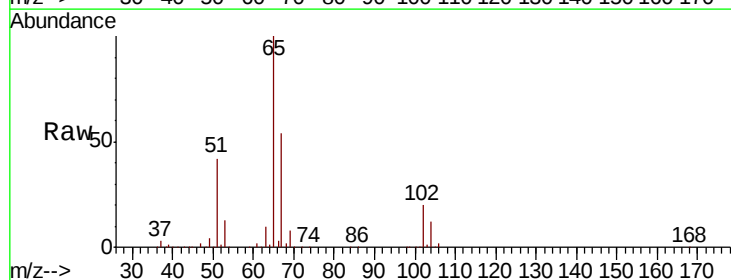
Acq: 06 Apr 2019 13:08

Tgt Ion: 65 Resp: 142675

Ion Ratio Lower Upper

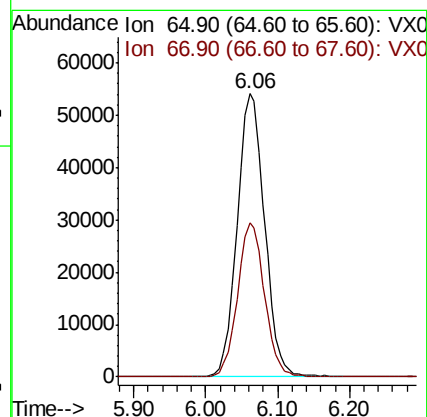
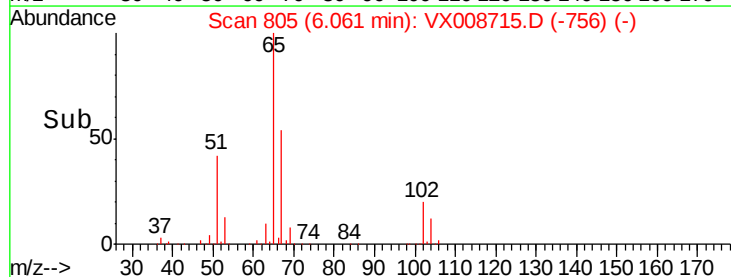
65 100

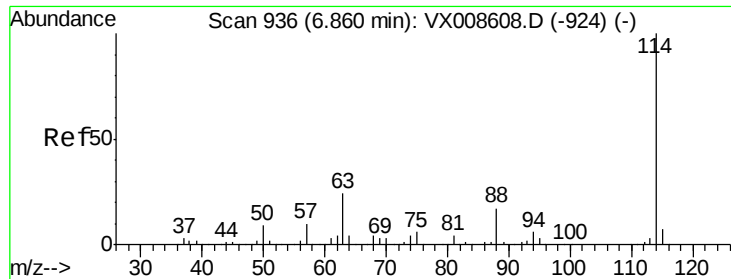
67 53.7 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

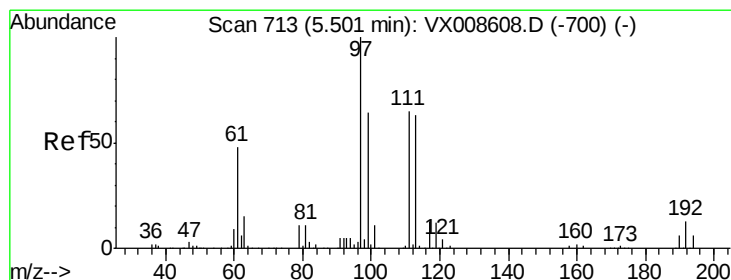
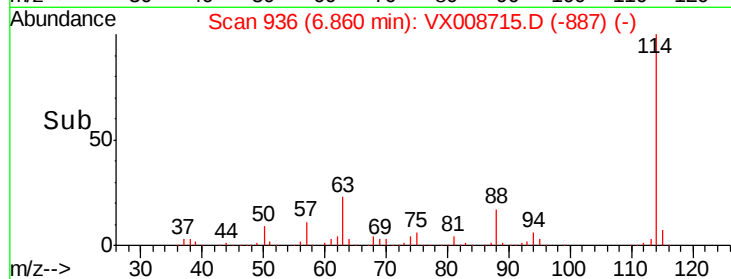
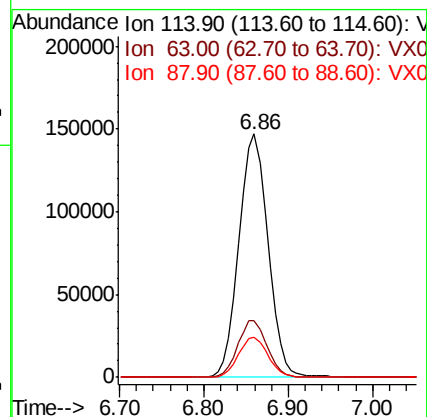
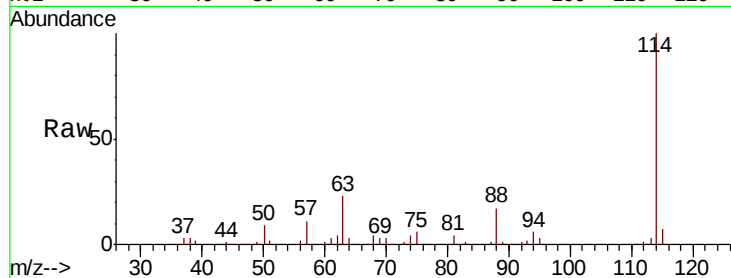




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008715.D
 Acq: 06 Apr 2019 13:08

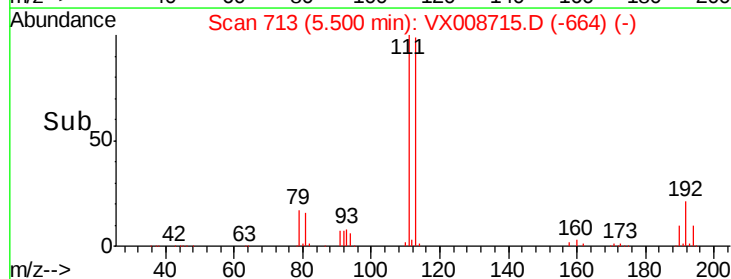
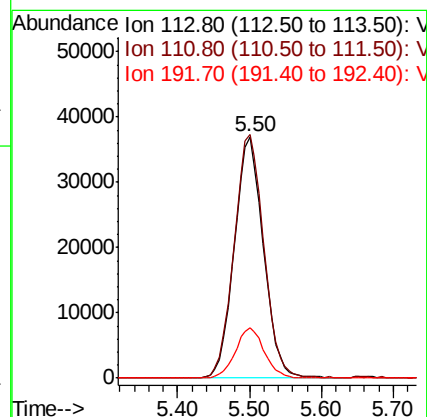
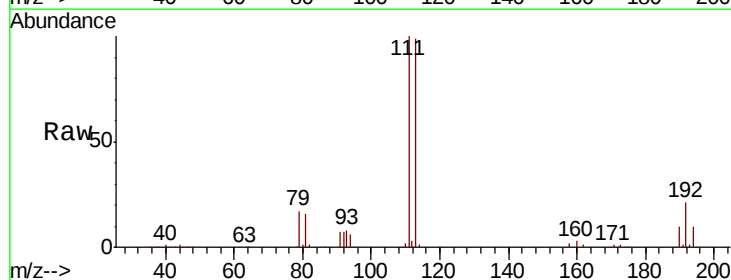
Instrument :
 MSVOA_X
 ClientSampleId :
 TT-TB-20190404

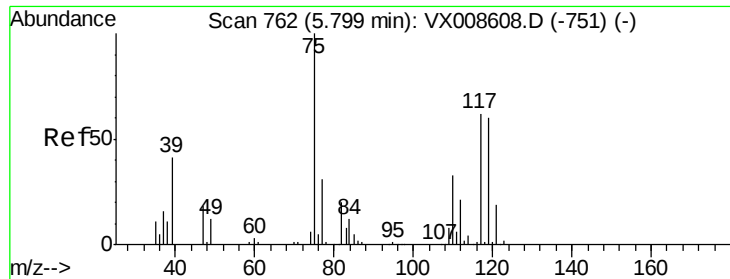
Tot Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	47.2
88	16.7	0.0	34.0



#35
 Dibromofluoromethane
 Concen: 47.166 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008715.D
 Acq: 06 Apr 2019 13:08

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	83.4	125.2
192	20.6	16.1	24.1

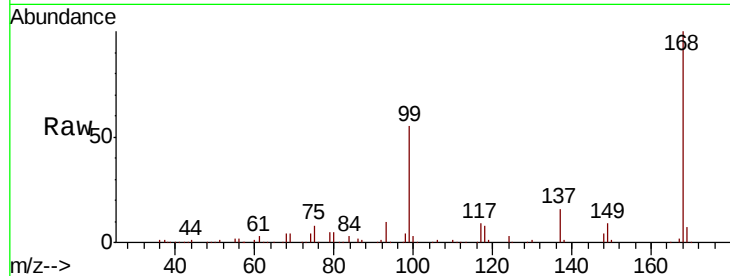




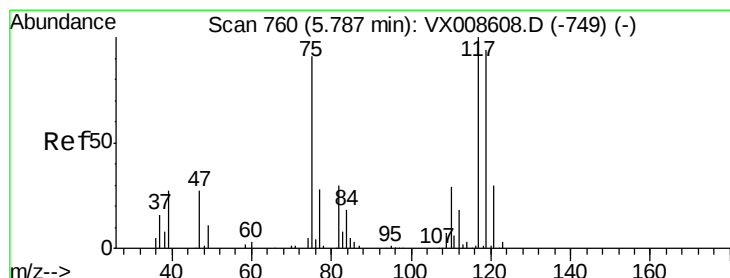
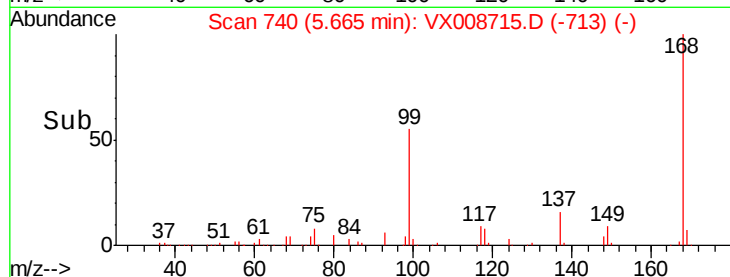
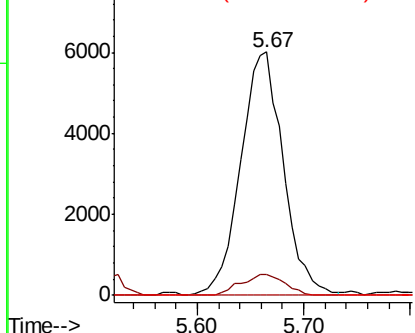
#36
 1,1-Dichloropropene
 Concen: 4.491 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX008715.D
 Acq: 06 Apr 2019 13:08

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-TB-20190404

Tot Ion	75	Resp	16879
Ion Ratio	100		
Lower		16.4	
Upper		49.2#	
77	0.0	24.7	37.1#

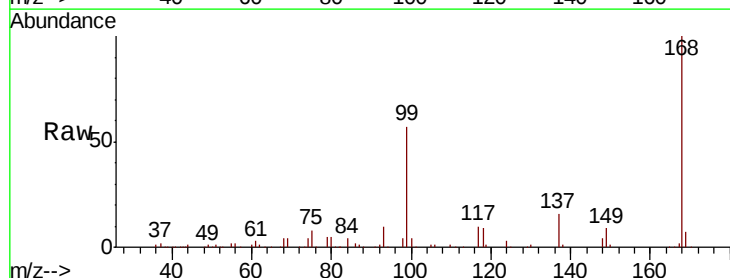


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

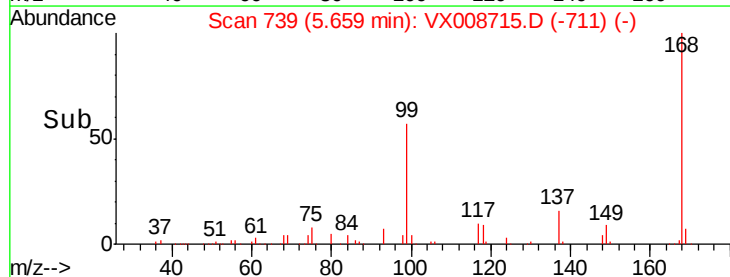
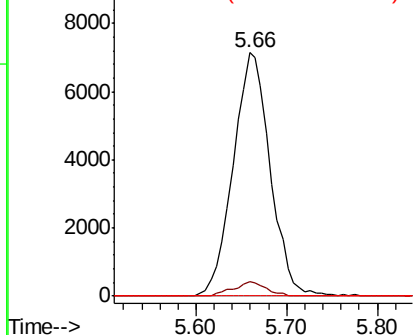


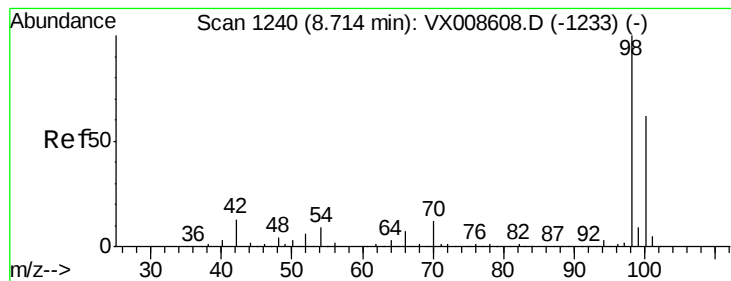
#38
 Carbon Tetrachloride
 Concen: 6.475 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008715.D
 Acq: 06 Apr 2019 13:08

Tgt Ion	117	Resp	20144
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower		75.0	
Upper		112.6#	
119	5.8	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: 49.466 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008715.D

Acq: 06 Apr 2019 13:08

Instrument :

MSVOA_X

ClientSampleId :

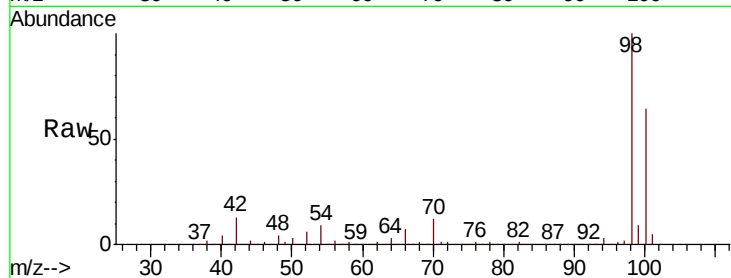
TT-TB-20190404

Tot Ion: 98 Resp: 433026

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): VX0

8.71

300000

250000

200000

150000

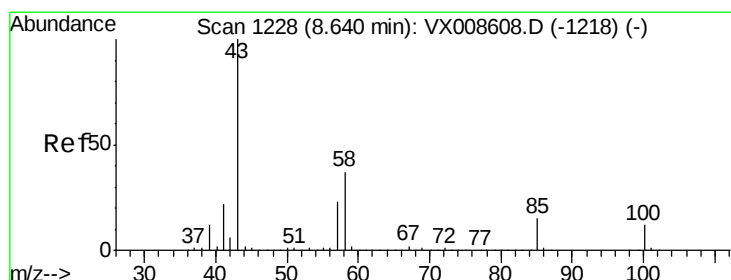
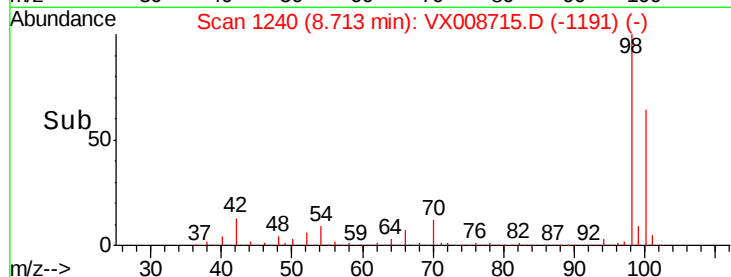
100000

50000

0

Time-->

8.60 8.70 8.80



#51

4-Methyl-2-Pentanone

Concen: 0.216 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX008715.D

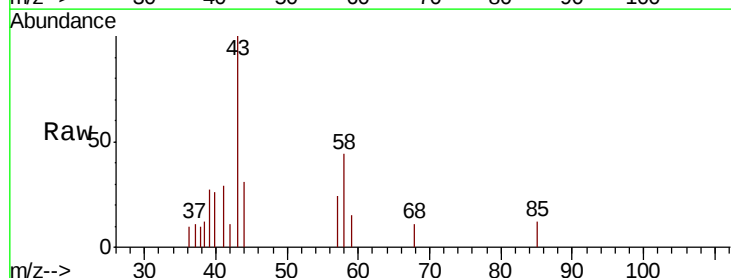
Acq: 06 Apr 2019 13:08

Tgt Ion: 43 Resp: 1093

Ion Ratio Lower Upper

43 100

58 38.2 29.5 44.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

3000

2500

2000

1500

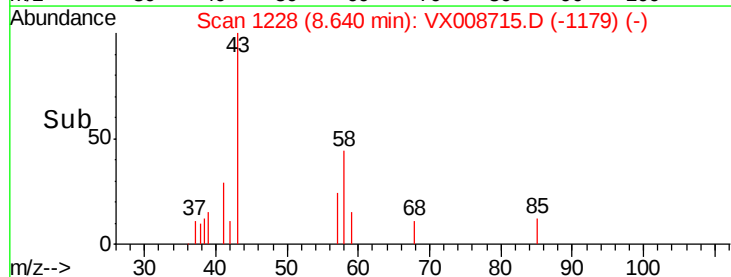
1000

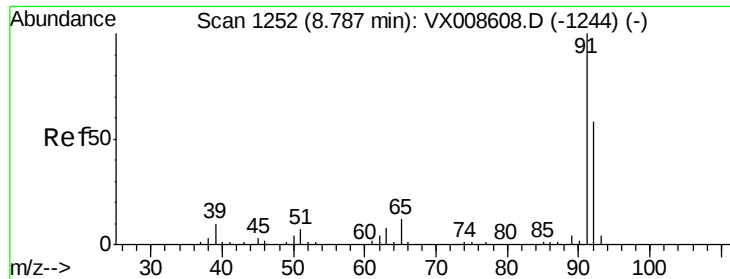
500

0

Time-->

8.60 8.65 8.70





#52

Toluene

Concen: 0.321 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX008715.D

Acq: 06 Apr 2019 13:08

Instrument :

MSVOA_X

ClientSampleId :

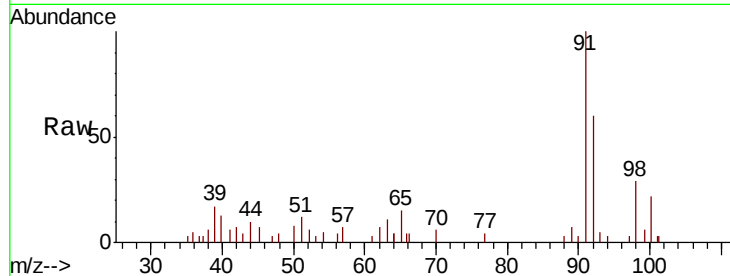
TT-TB-20190404

Tot Ion: 92 Resp: 2118

Ion Ratio Lower Upper

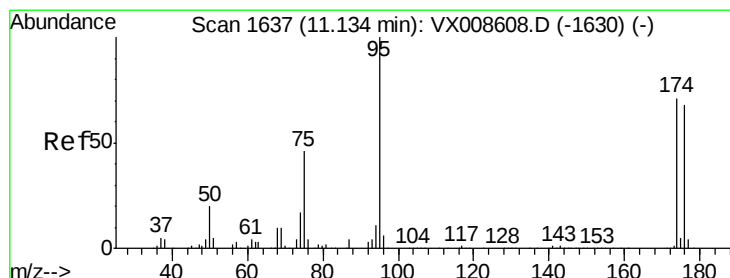
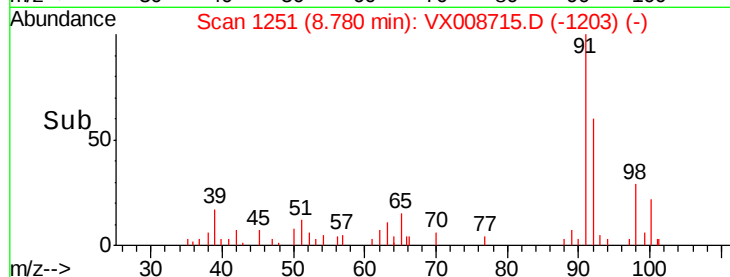
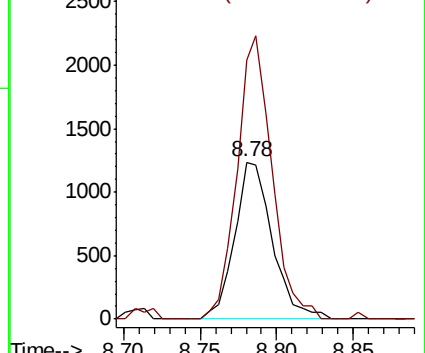
92 100

91 166.9 138.5 207.7



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 47.012 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008715.D

Acq: 06 Apr 2019 13:08

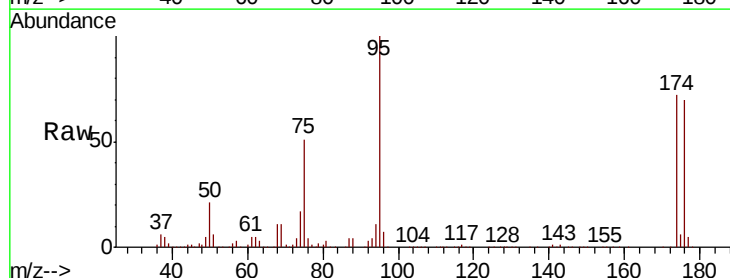
Tgt Ion: 95 Resp: 145940

Ion Ratio Lower Upper

95 100

174 77.4 0.0 151.8

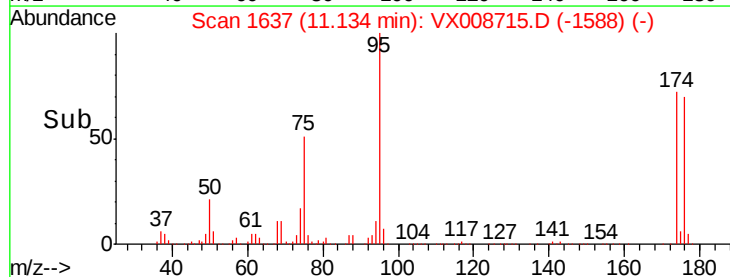
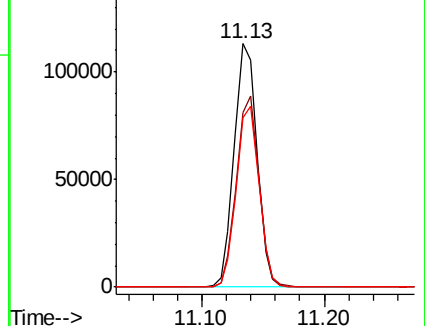
176 74.2 0.0 145.8

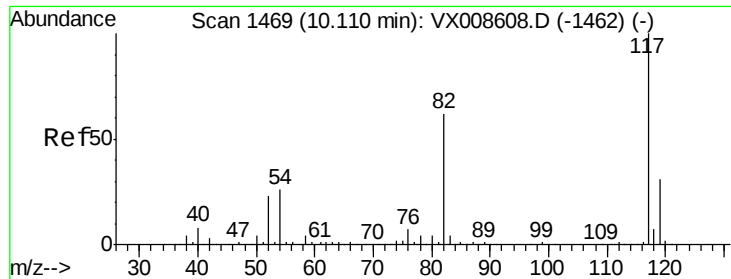


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

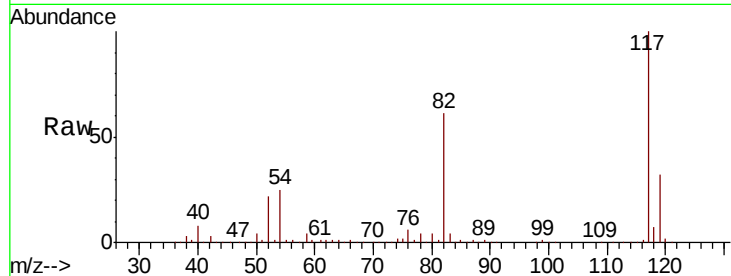




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008715.D
Acq: 06 Apr 2019 13:08

Instrument :
MSVOA_X
ClientSampleId :
TT-TB-20190404

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.1	49.6	74.4
119	31.8	25.0	37.4

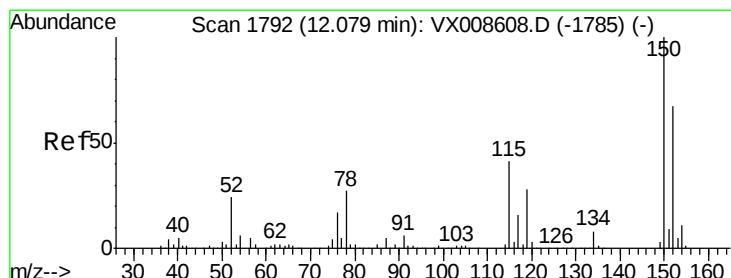
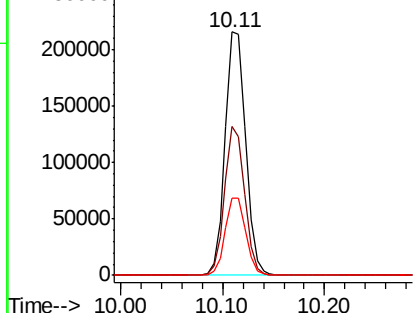
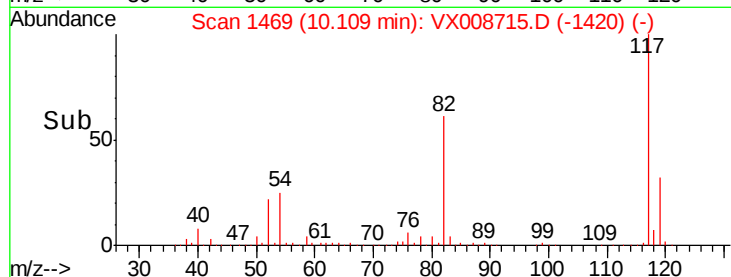


Abundance

Ion 116.90 (116.60 to 117.60): V

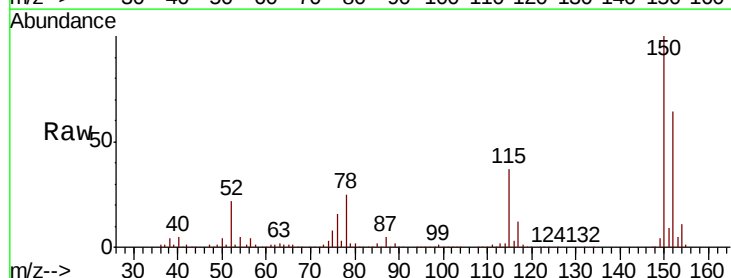
Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008715.D
Acq: 06 Apr 2019 13:08

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.5	43.5	130.5
150	157.1	0.0	348.8

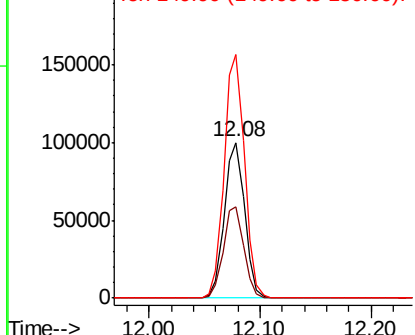
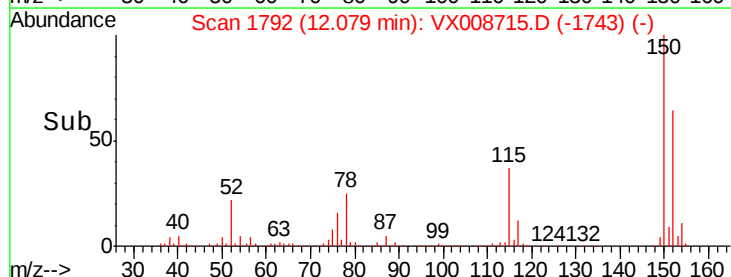


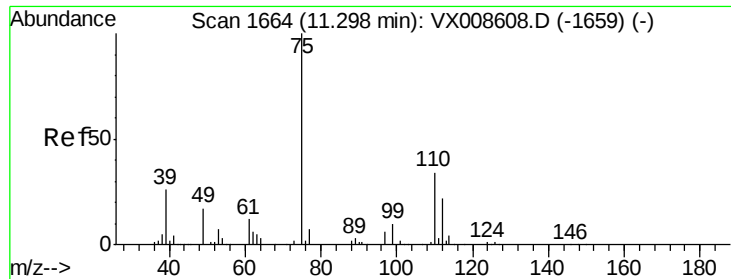
Abundance

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: 21.290 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008715.D

Acq: 06 Apr 2019 13:08

Instrument :

MSVOA_X

ClientSampleId :

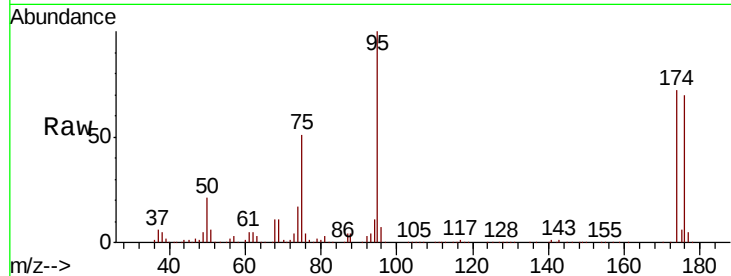
TT-TB-20190404

Tot Ion: 75 Resp: 73701

Ion Ratio Lower Upper

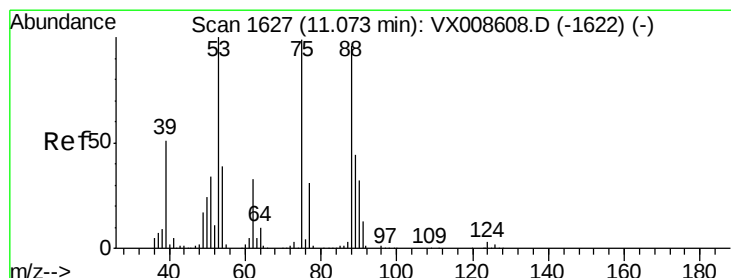
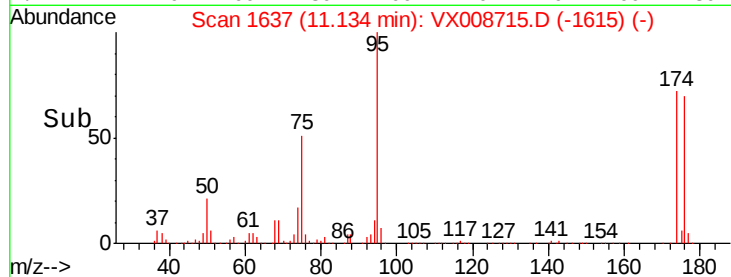
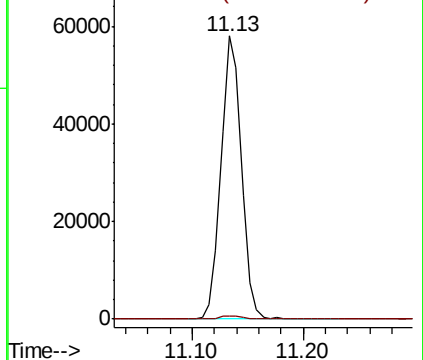
75 100

77 1.3 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: 58.687 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008715.D

Acq: 06 Apr 2019 13:08

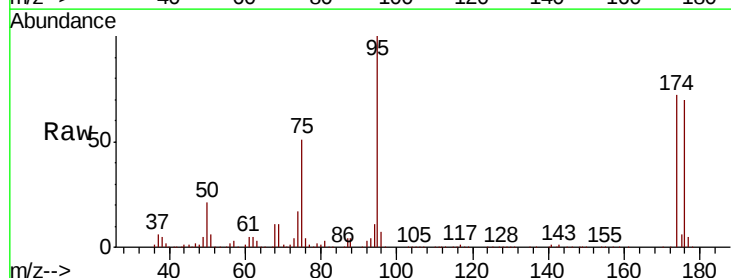
Tgt Ion: 75 Resp: 73701

Ion Ratio Lower Upper

75 100

53 0.1 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

