

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031419\
 Data File : VX008090.D
 Acq On : 15 Mar 2019 00:40
 Operator : JC/SP
 Sample : K1839-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D2-20190307

Quant Time: Mar 15 04:30:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 03:56:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	299866	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	458553	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	436007	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	214234	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	152432	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
35) Dibromofluoromethane	5.51	113	146503	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
50) Toluene-d8	8.71	98	549986	49.73	ug/l	0.00
Spiked Amount			Recovery	=	99.46%	
62) 4-Bromofluorobenzene	11.13	95	201483	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	

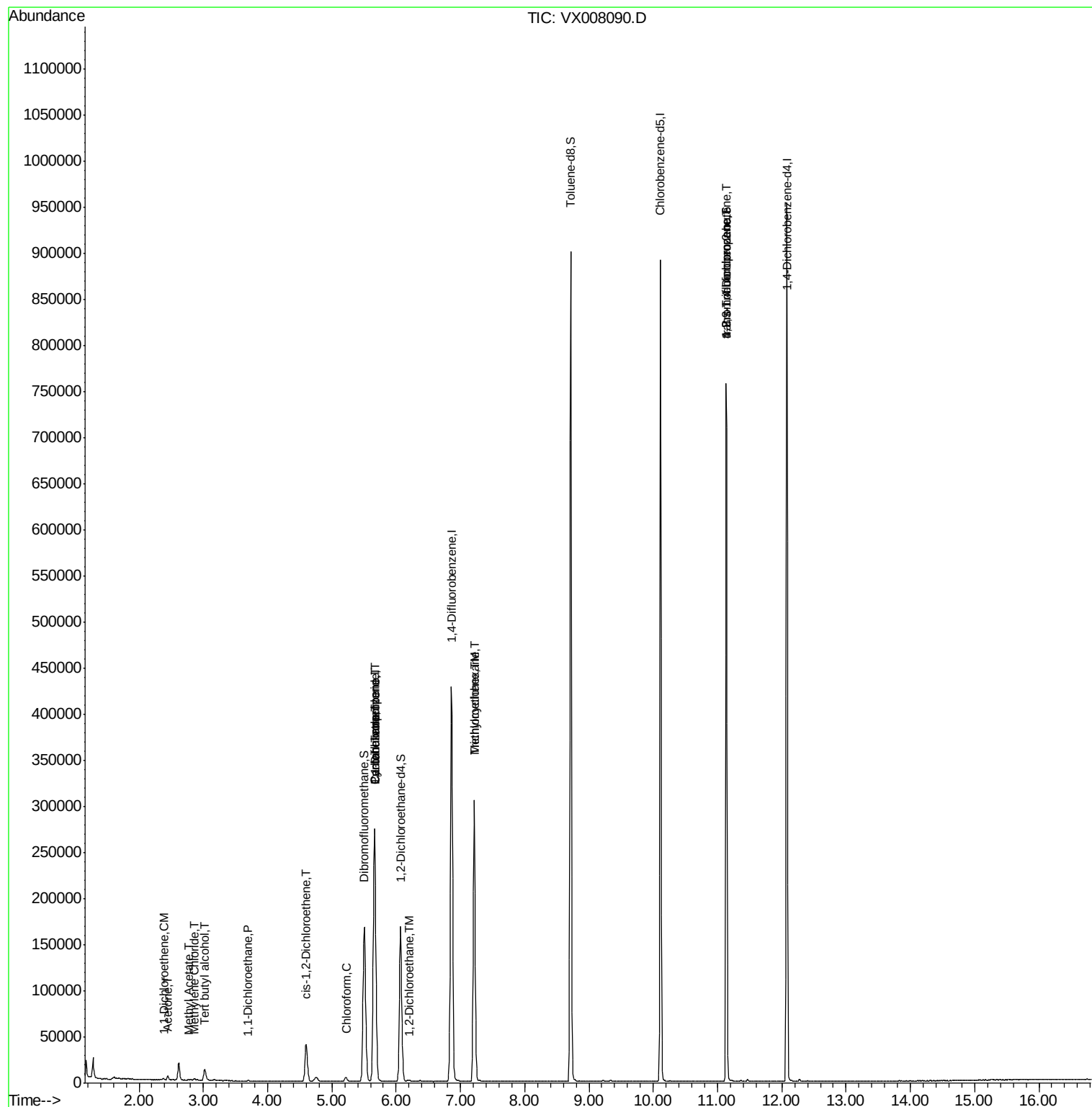
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	227	Below Cal	#	60
6) Chloroethane	1.73	64	168	Below Cal		99
11) Tert butyl alcohol	3.02	59	7602	13.008	ug/l #	76
12) 1,1-Dichloroethene	2.38	96	595	0.260	ug/l	79
16) Acetone	2.45	43	4450	3.116	ug/l	97
18) Methyl Acetate	2.78	43	900	0.292	ug/l #	86
20) Methylene Chloride	2.86	84	605	0.237	ug/l #	72
24) 1,1-Dichloroethane	3.70	63	984	0.217	ug/l #	83
27) cis-1,2-Dichloroethene	4.60	96	27904	9.529	ug/l	86
30) Chloroform	5.22	83	4940	1.075	ug/l	97
31) Cyclohexane	5.67	56	4219	0.975	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	17574	4.659	ug/l #	49
38) Carbon Tetrachloride	5.67	117	24756	6.818	ug/l #	15
39) Methylcyclohexane	7.21	83	1417	0.294	ug/l #	1
42) 1,2-Dichloroethane	6.21	62	1387	0.375	ug/l	91
44) Trichloroethene	7.21	130	127933	38.357	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	90484	24.320	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	90484	69.205	ug/l #	11

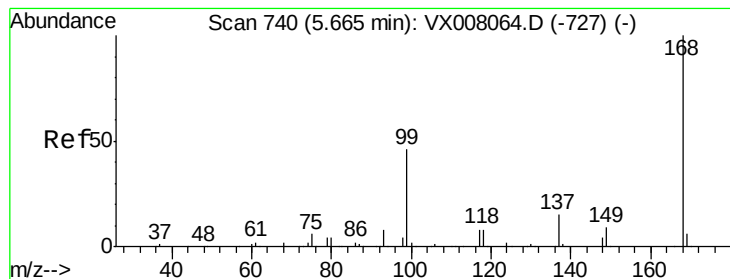
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008090.D

Acq: 15 Mar 2019 00:40

Instrument :

MSVOA_X

ClientSampleId :

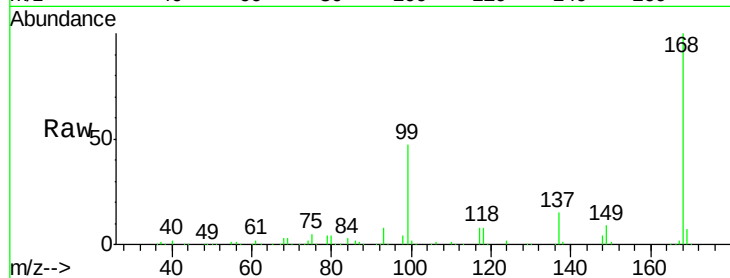
RE104D2-20190307

Tot Ion:168 Resp: 299866

Ion Ratio Lower Upper

168 100

99 46.9 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

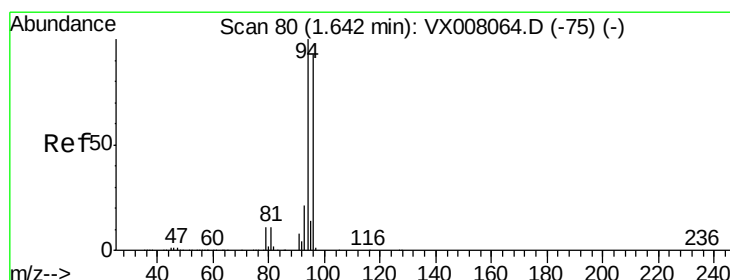
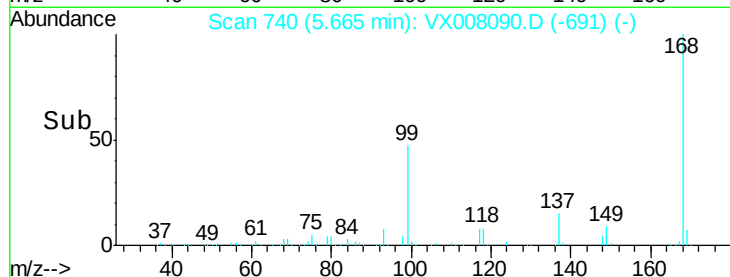
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX008090.D

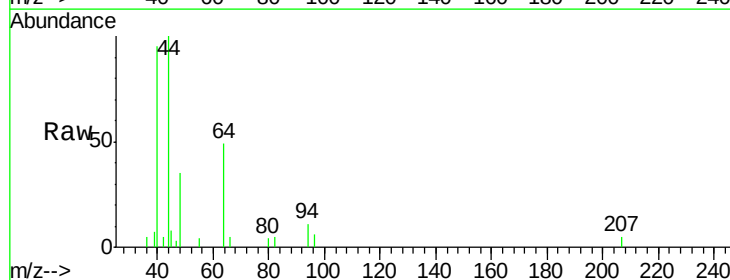
Acq: 15 Mar 2019 00:40

Tgt Ion: 94 Resp: 227

Ion Ratio Lower Upper

94 100

96 55.8 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

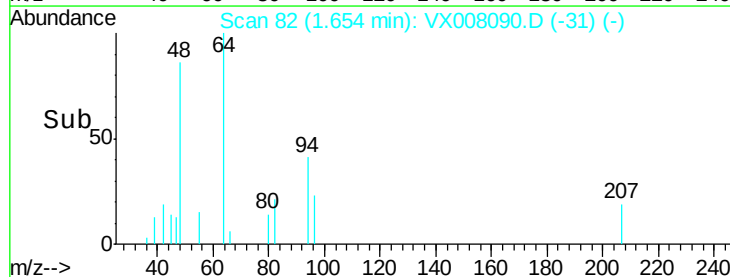
150

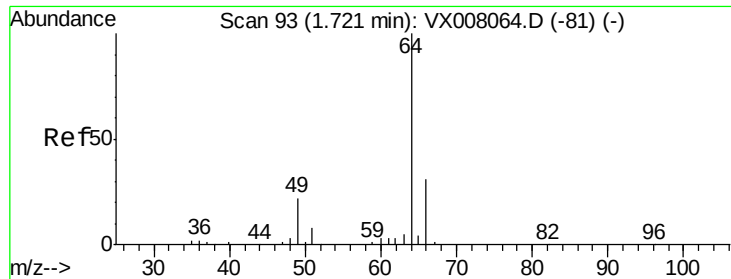
100

50

0

Time--> 1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.01 min

Lab File: VX008090.D

Acq: 15 Mar 2019 00:40

Instrument :

MSVOA_X

ClientSampleId :

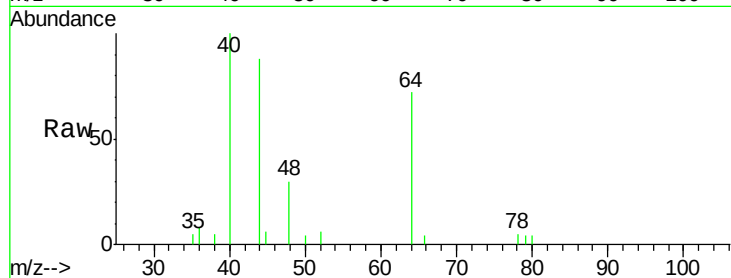
RE104D2-20190307

Tot Ion: 64 Resp: 168

Ion Ratio Lower Upper

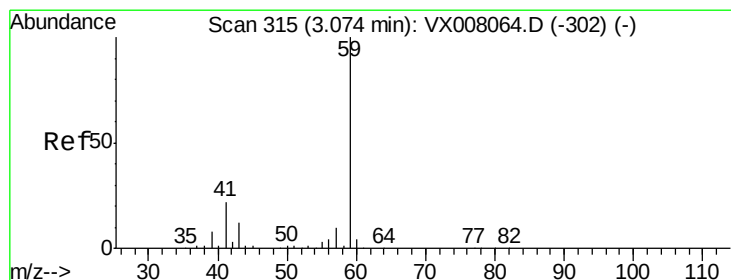
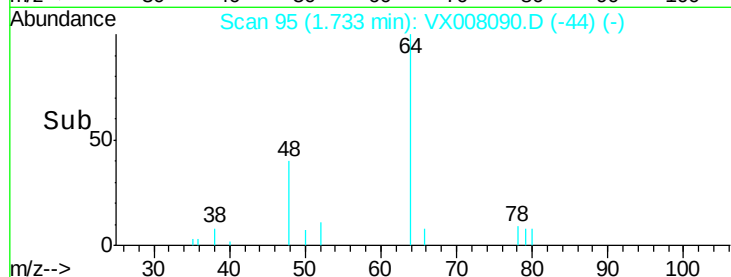
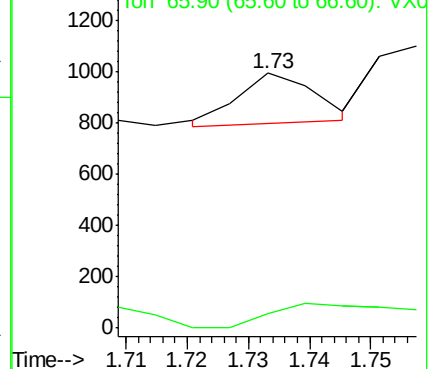
64 100

66 32.2 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 13.008 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX008090.D

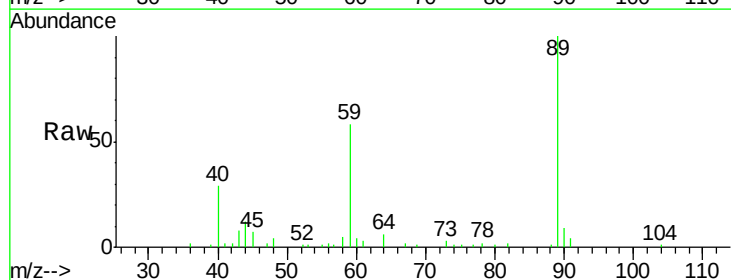
Acq: 15 Mar 2019 00:40

Tgt Ion: 59 Resp: 7602

Ion Ratio Lower Upper

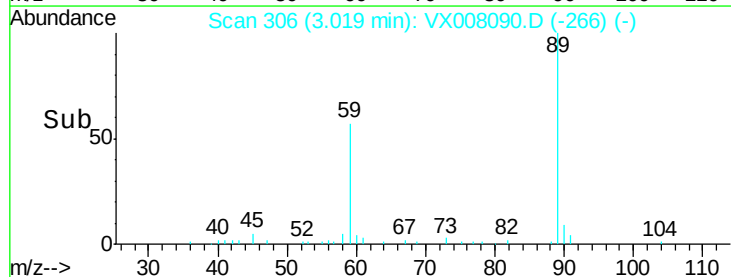
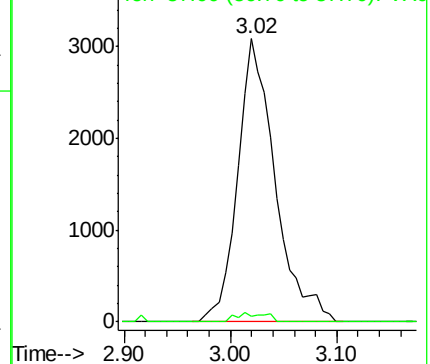
59 100

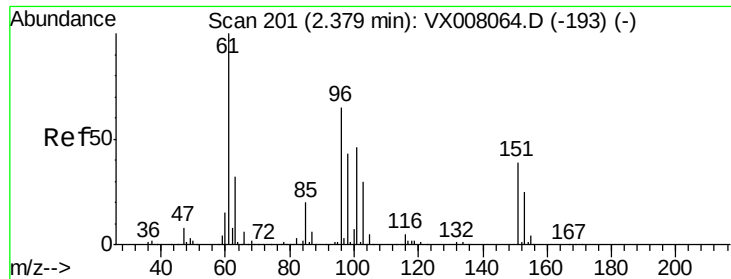
57 1.3 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

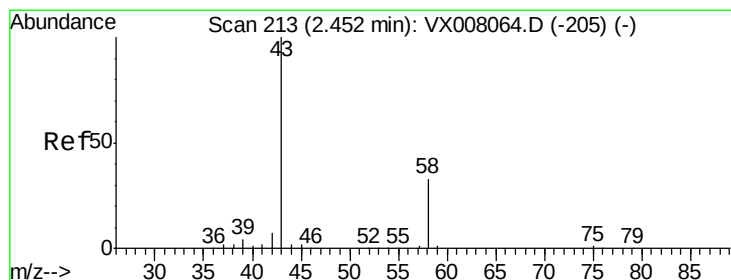
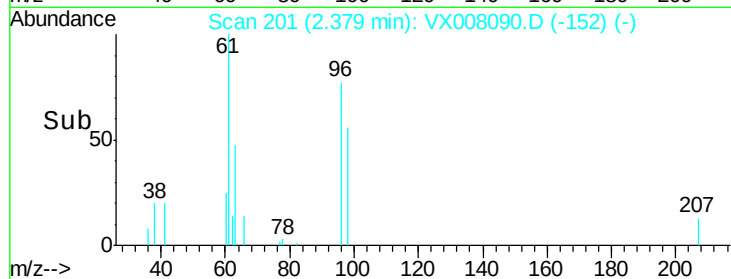
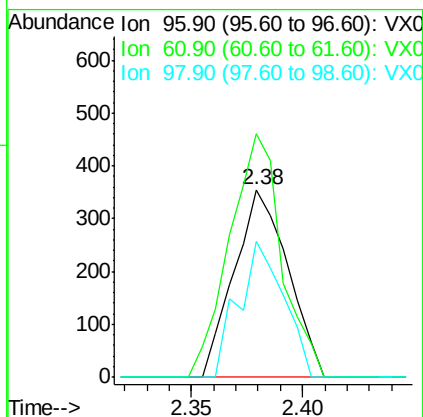
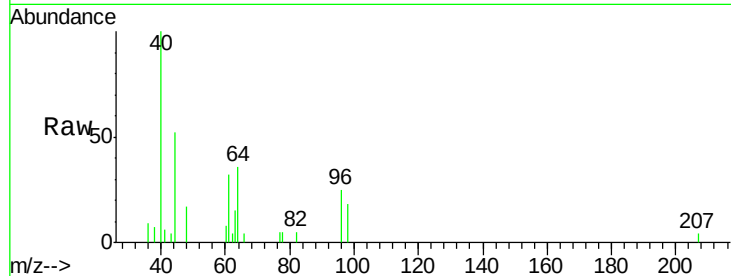




#12
 1,1-Dichloroethene
 Concen: 0.260 ug/l
 RT: 2.38 min Scan# 201
 Delta R.T. 0.00 min
 Lab File: VX008090.D
 Acq: 15 Mar 2019 00:40

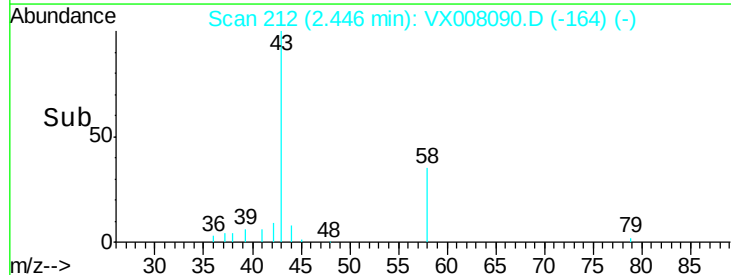
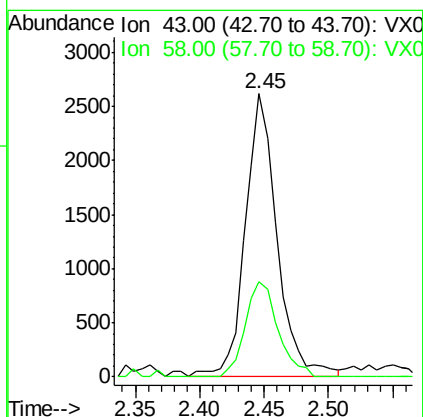
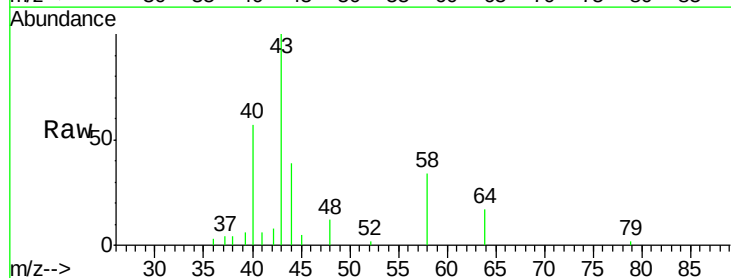
Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D2-20190307

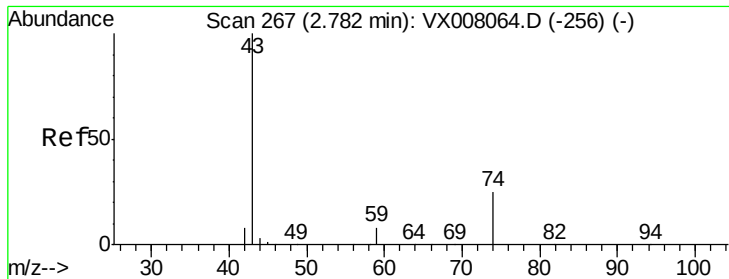
Tot Ion: 96 Resp: 595
 Ion Ratio Lower Upper
 96 100
 61 129.9 129.8 194.6
 98 72.4 51.0 76.6



#16
 Acetone
 Concen: 3.116 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. -0.01 min
 Lab File: VX008090.D
 Acq: 15 Mar 2019 00:40

Tgt Ion: 43 Resp: 4450
 Ion Ratio Lower Upper
 43 100
 58 33.7 25.5 38.3





#18

Methyl Acetate

Concen: 0.292 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX008090.D

Acq: 15 Mar 2019 00:40

Instrument :

MSVOA_X

ClientSampleId :

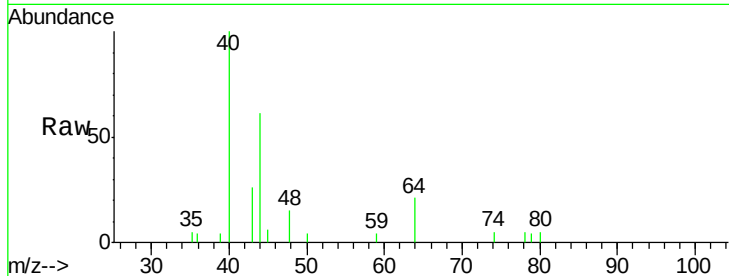
RE104D2-20190307

Tot Ion: 43 Resp: 900

Ion Ratio Lower Upper

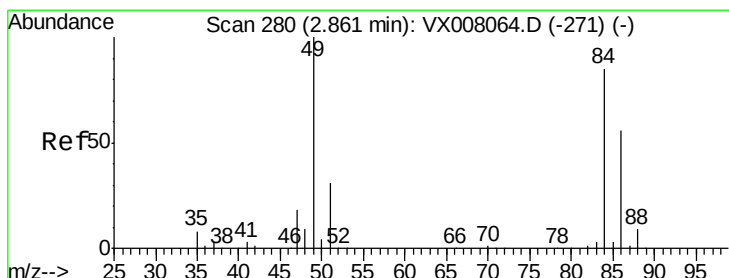
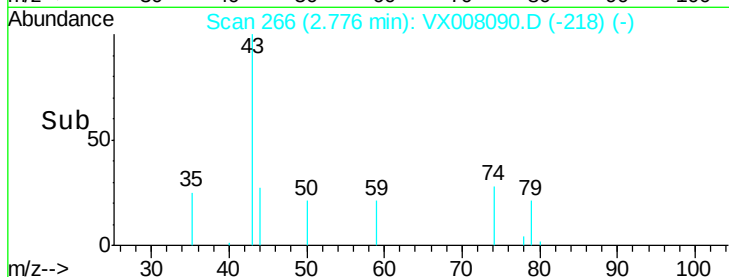
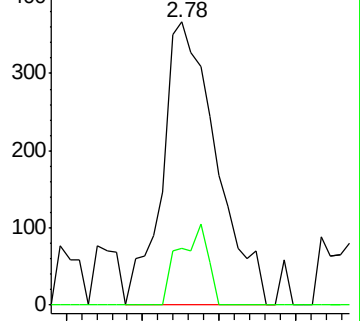
43 100

74 15.3 17.8 26.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 0.237 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX008090.D

Acq: 15 Mar 2019 00:40

Tgt Ion: 84 Resp: 605

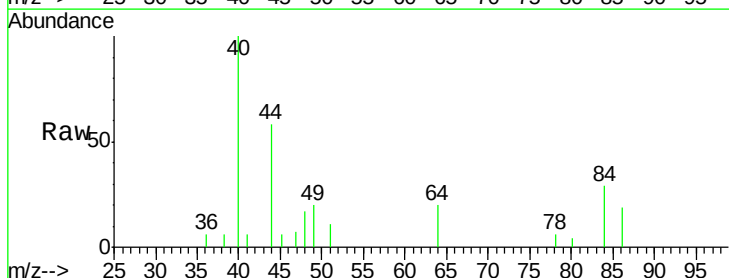
Ion Ratio Lower Upper

84 100

49 67.8 99.3 148.9#

51 37.9 31.3 46.9

86 65.0 52.6 79.0

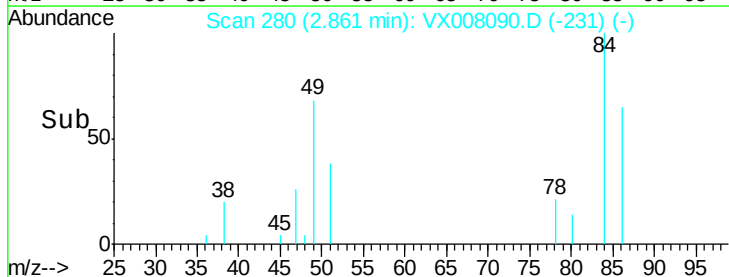
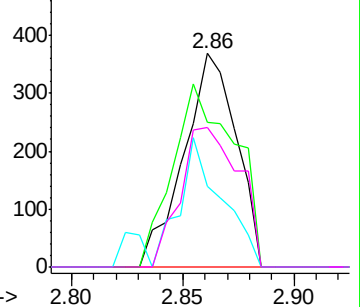


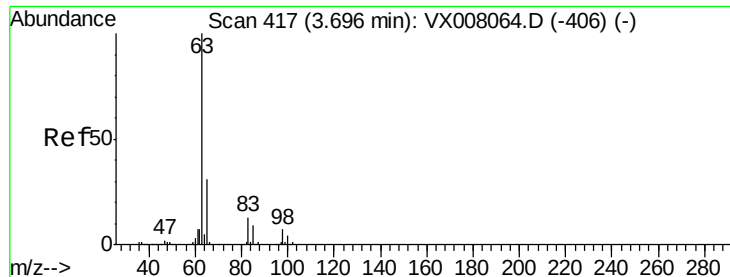
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#24

1,1-Dichloroethane

Concen: 0.217 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX008090.D

Acq: 15 Mar 2019 00:40

Instrument :

MSVOA_X

ClientSampleId :

RE104D2-20190307

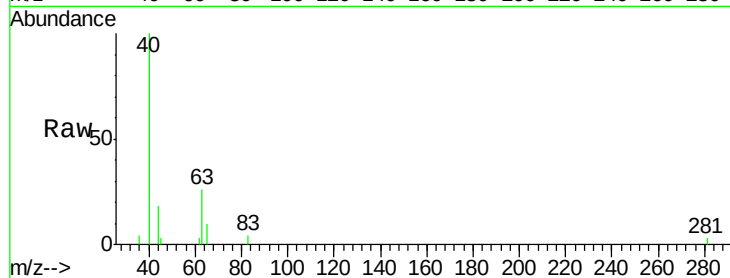
Tot Ion: 63 Resp: 984

Ion Ratio Lower Upper

63 100

98 0.0 3.3 9.8#

100 0.0 2.3 6.8#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

Time-->

3.65 3.70 3.75

400

300

200

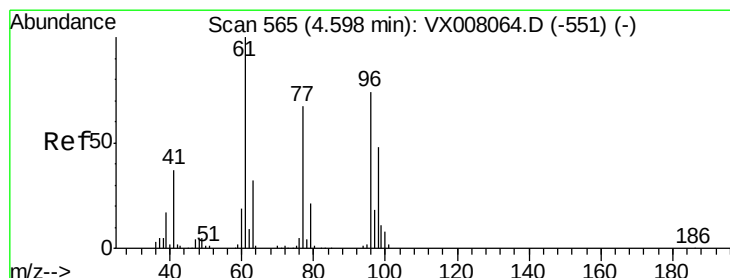
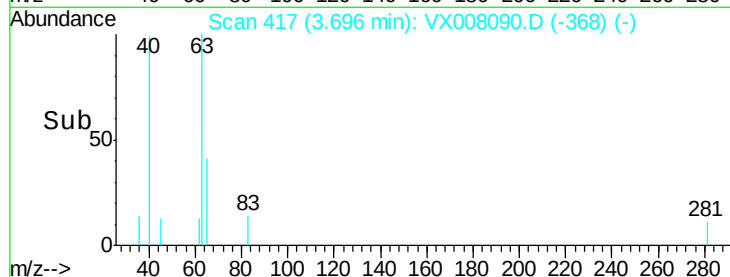
100

0

3.65 3.70 3.75

Time-->

3.65 3.70 3.75



#27

cis-1,2-Dichloroethene

Concen: 9.529 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX008090.D

Acq: 15 Mar 2019 00:40

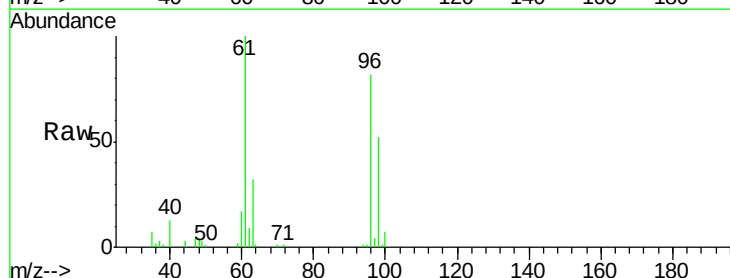
Tgt Ion: 96 Resp: 27904

Ion Ratio Lower Upper

96 100

61 119.2 0.0 288.0

98 65.3 0.0 129.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Time-->

4.50 4.55 4.60 4.65 4.70

15000

10000

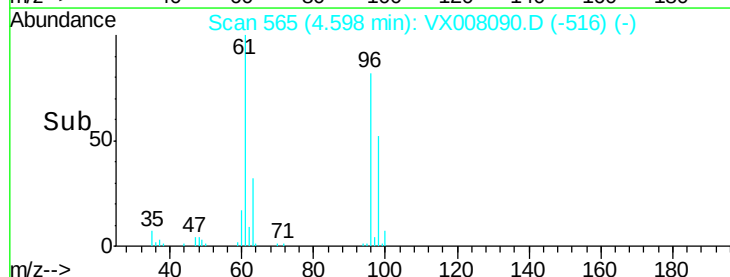
5000

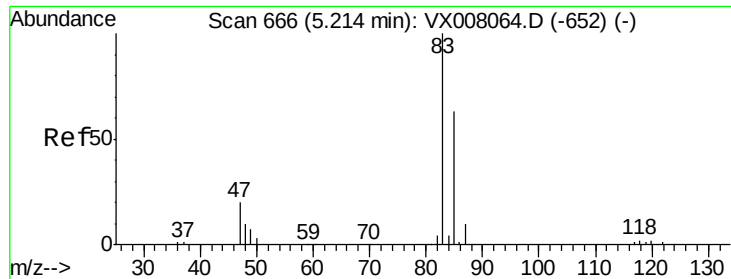
0

4.50 4.55 4.60 4.65 4.70

Time-->

4.50 4.55 4.60 4.65 4.70

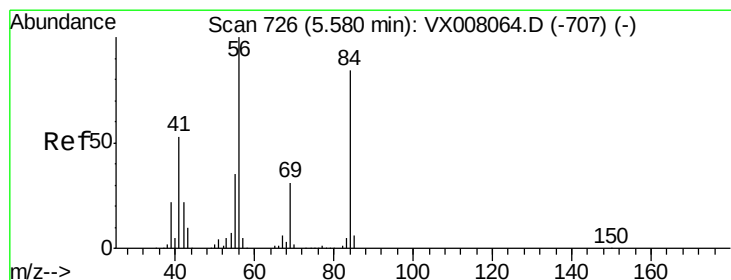
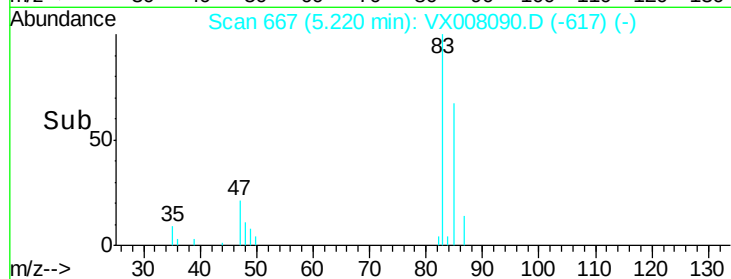
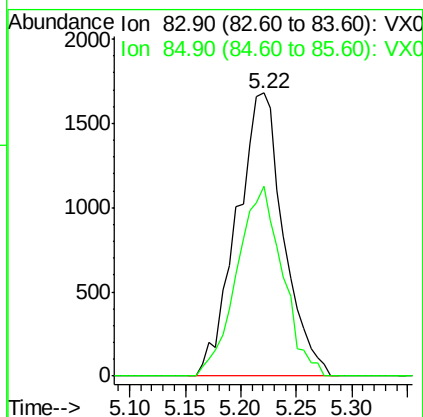
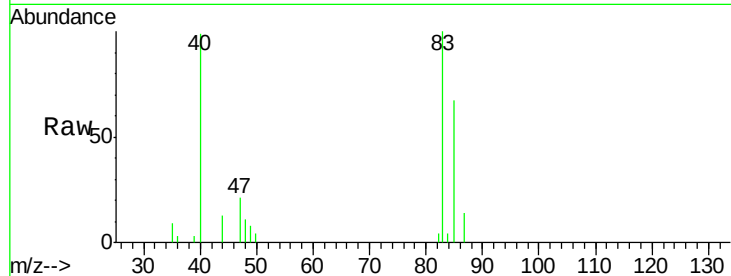




#30
Chloroform
Concen: 1.075 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX008090.D
Acq: 15 Mar 2019 00:40

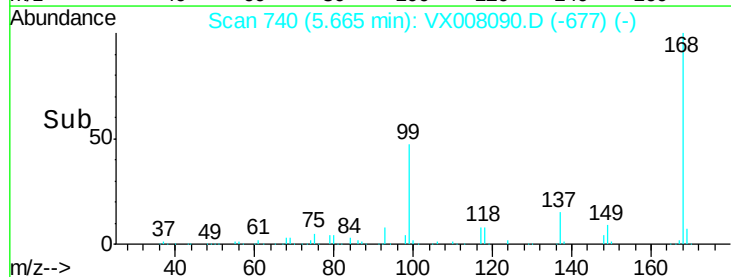
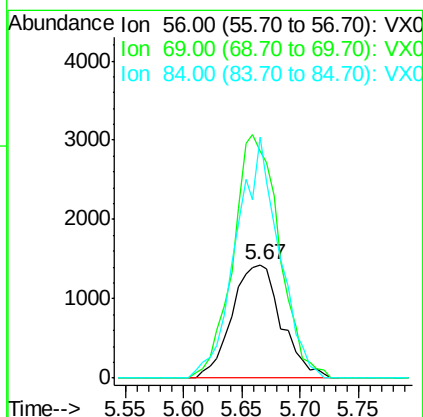
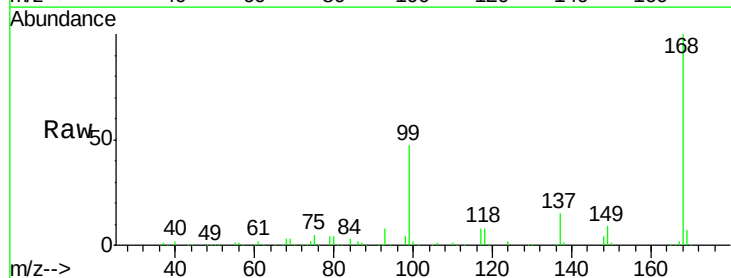
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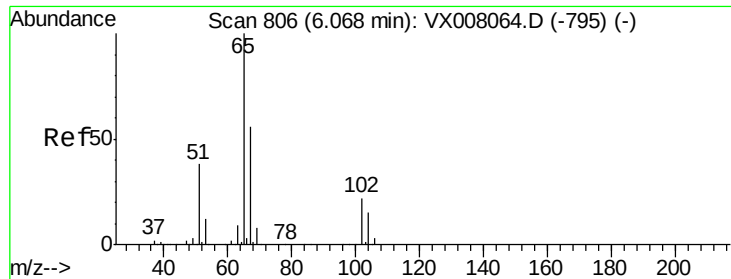
Tot Ion: 83 Resp: 4940
Ion Ratio Lower Upper
83 100
85 67.1 51.8 77.6



#31
Cyclohexane
Concen: 0.975 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008090.D
Acq: 15 Mar 2019 00:40

Tgt Ion: 56 Resp: 4219
Ion Ratio Lower Upper
56 100
69 199.9 24.0 36.0#
84 213.2 65.3 97.9#

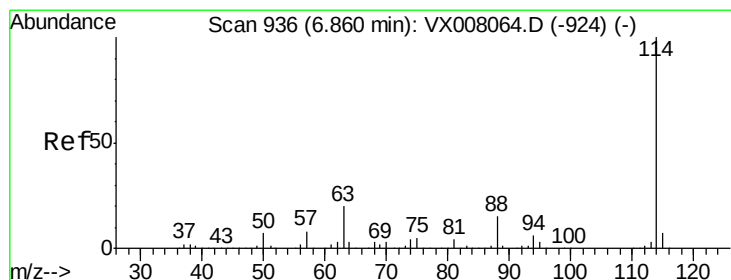
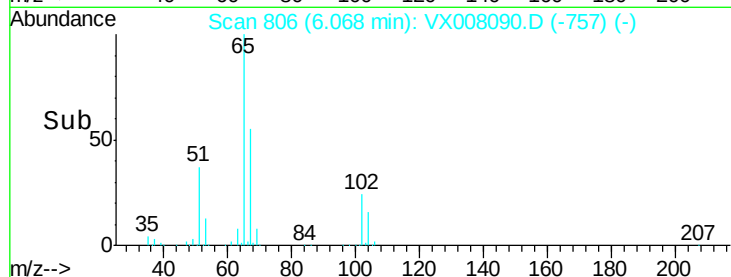
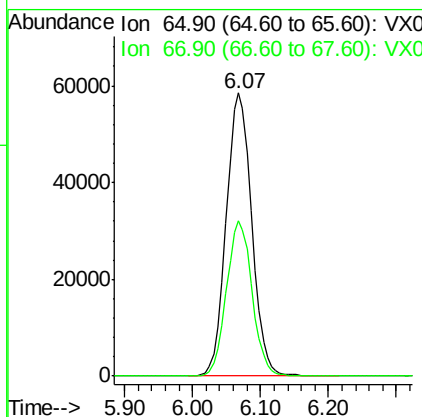
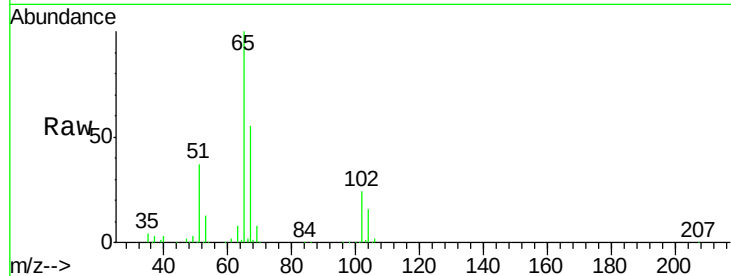




#33
 1,2-Dichloroethane-d4
 Concen: 50.393 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX008090.D
 Acq: 15 Mar 2019 00:40

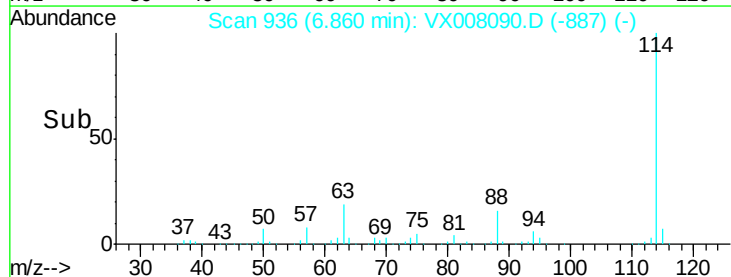
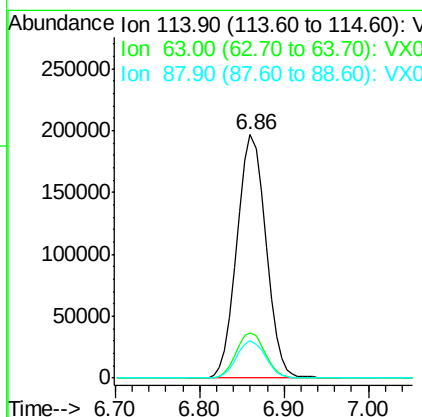
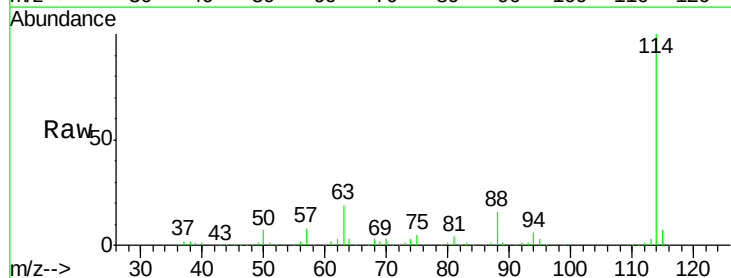
Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D2-20190307

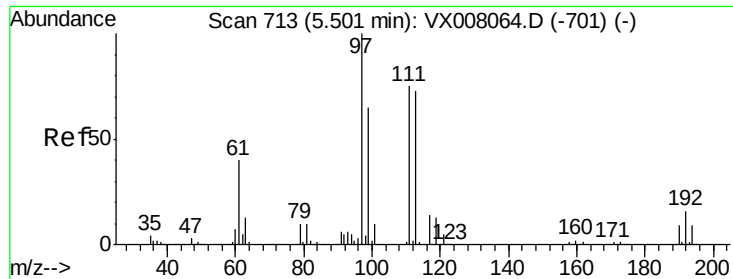
Tot Ion: 65 Resp: 152432
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 110.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008090.D
 Acq: 15 Mar 2019 00:40

Tgt Ion: 114 Resp: 458553
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 39.8
 88 15.6 0.0 31.4

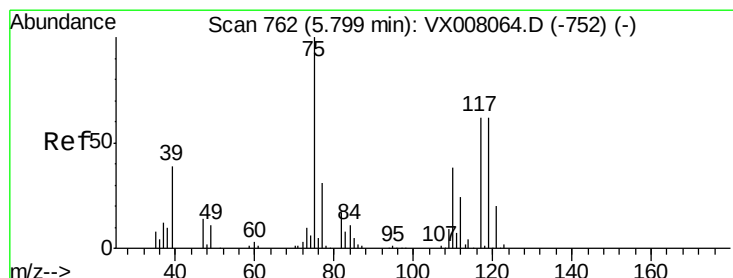
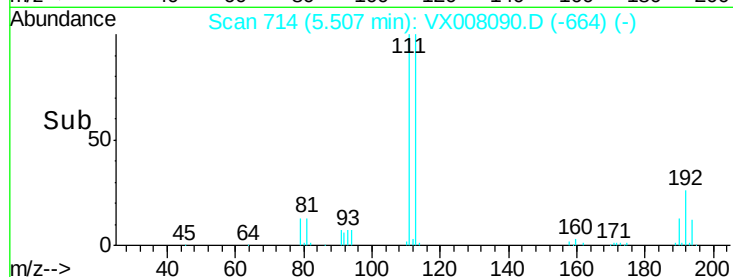
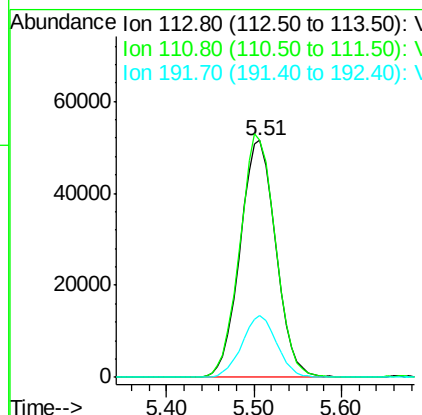
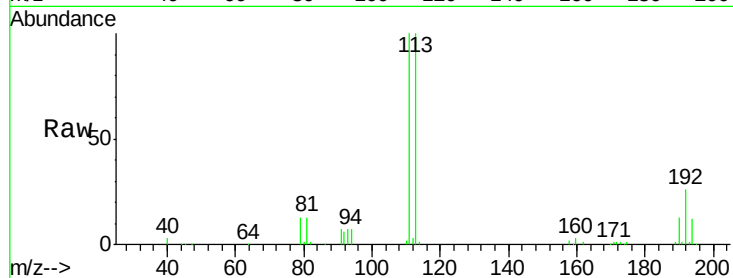




#35
 Dibromofluoromethane
 Concen: 50.381 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX008090.D
 Acq: 15 Mar 2019 00:40

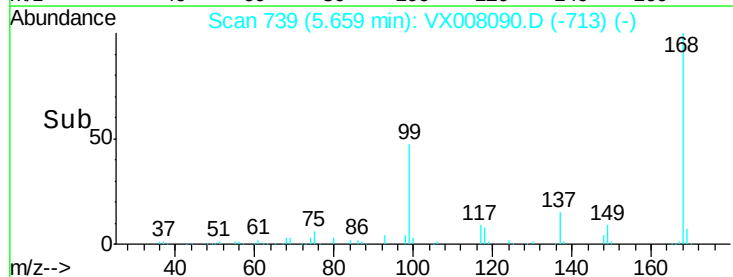
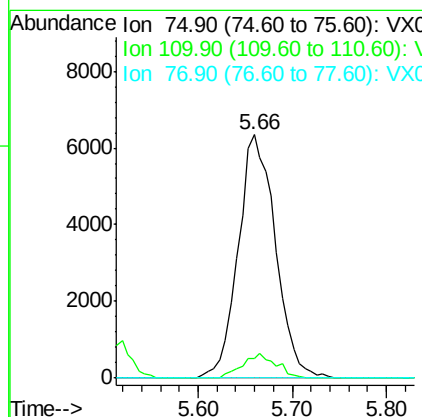
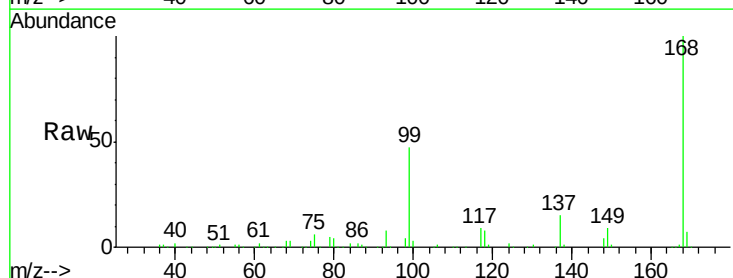
Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D2-20190307

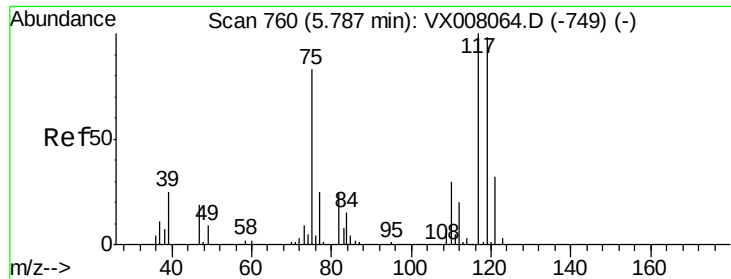
Tot Ion:113 Resp: 146503
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.4 122.0
 192 25.3 19.4 29.0



#36
 1,1-Dichloropropene
 Concen: 4.659 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008090.D
 Acq: 15 Mar 2019 00:40

Tgt Ion: 75 Resp: 17574
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.4 55.0#
 77 0.0 25.0 37.4#

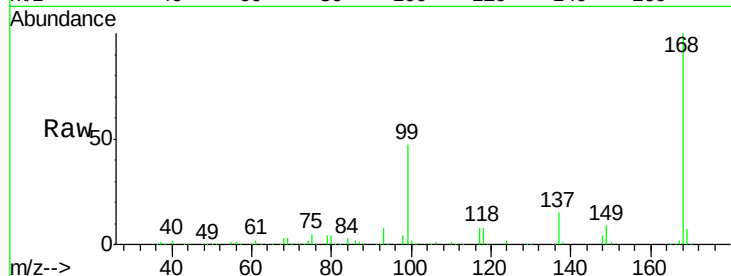




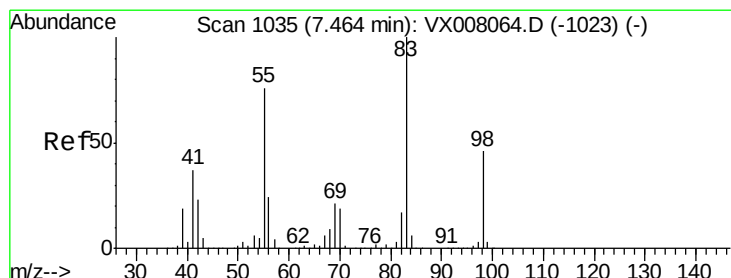
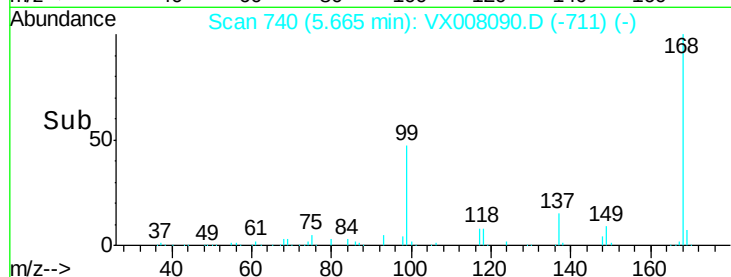
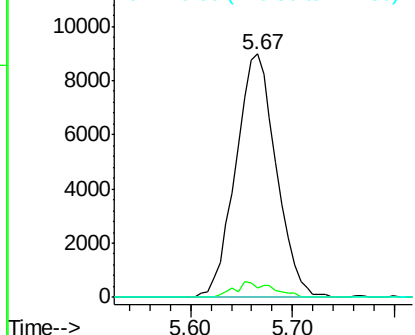
#38
Carbon Tetrachloride
Concen: 6.818 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX008090.D
Acq: 15 Mar 2019 00:40

Instrument :
MSVOA_X
ClientSampleId :
RE104D2-20190307

Tot Ion:117 Resp: 24756
Ion Ratio Lower Upper
117 100
119 4.0 76.2 114.2#
121 0.0 24.6 36.8#

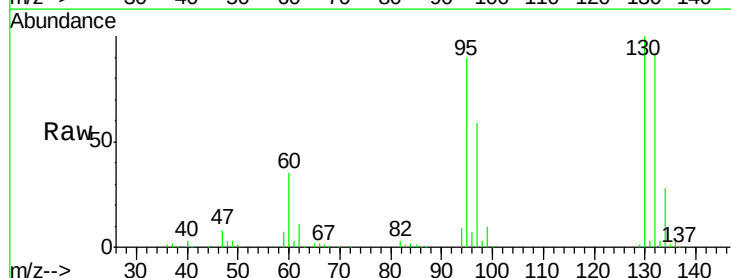


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

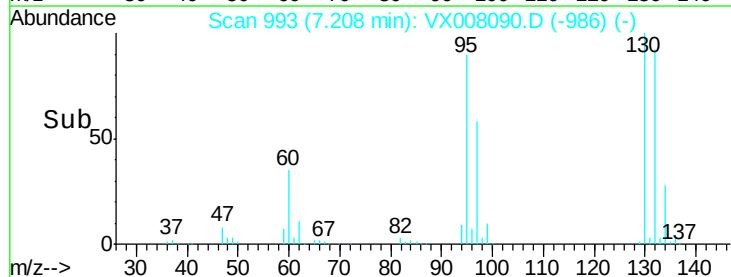
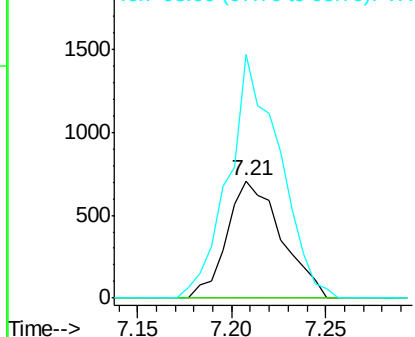


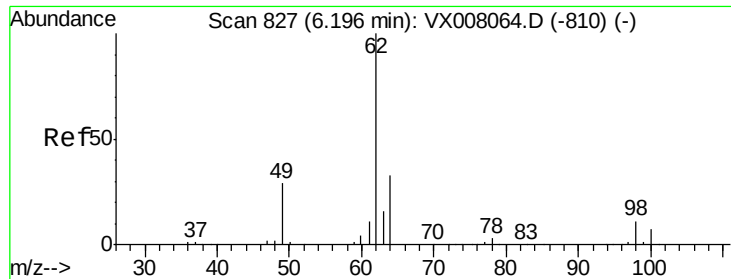
#39
Methylcyclohexane
Concen: 0.294 ug/l
RT: 7.21 min Scan# 993
Delta R.T. -0.26 min
Lab File: VX008090.D
Acq: 15 Mar 2019 00:40

Tgt Ion: 83 Resp: 1417
Ion Ratio Lower Upper
83 100
55 0.0 60.4 90.6#
98 207.8 36.5 54.7#



Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

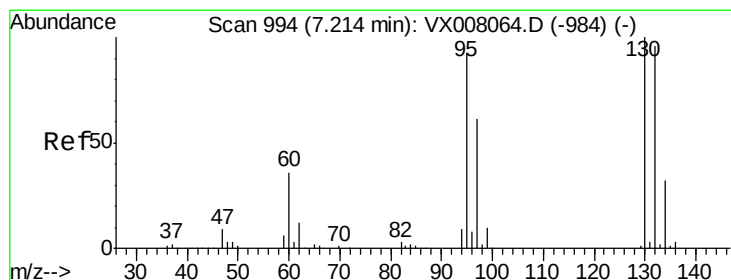
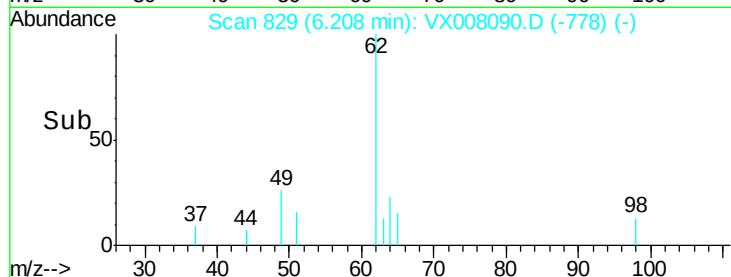
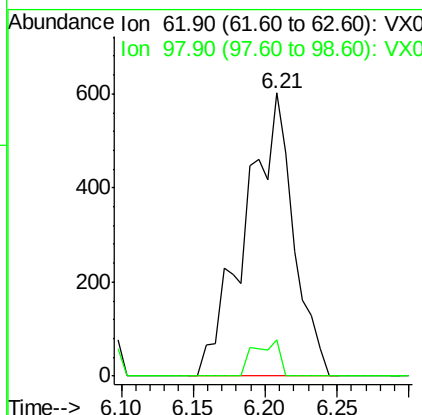
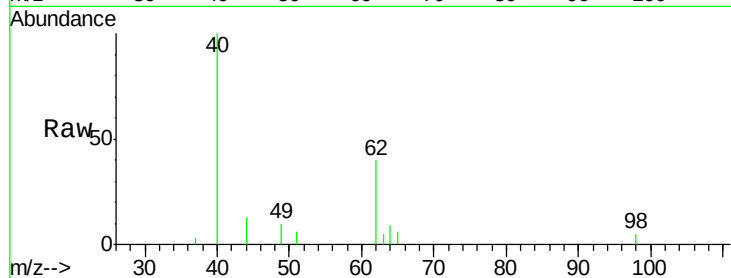




#42
1,2-Dichloroethane
Concen: 0.375 ug/l
RT: 6.21 min Scan# 829
Delta R.T. 0.01 min
Lab File: VX008090.D
Acq: 15 Mar 2019 00:40

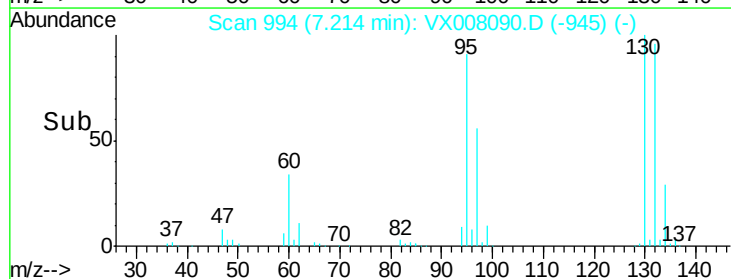
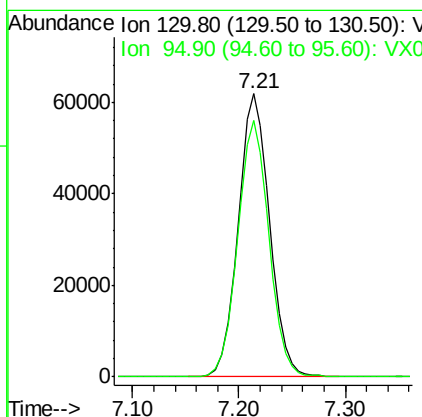
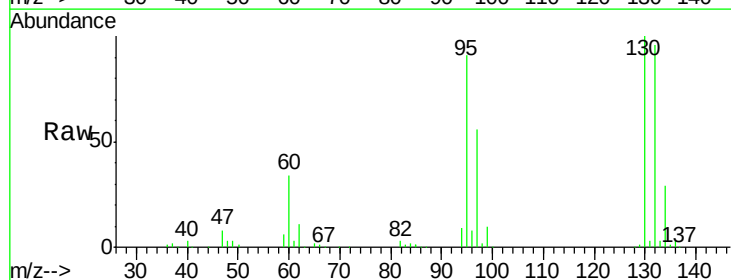
Instrument :
MSVOA_X
ClientSampleId :
RE104D2-20190307

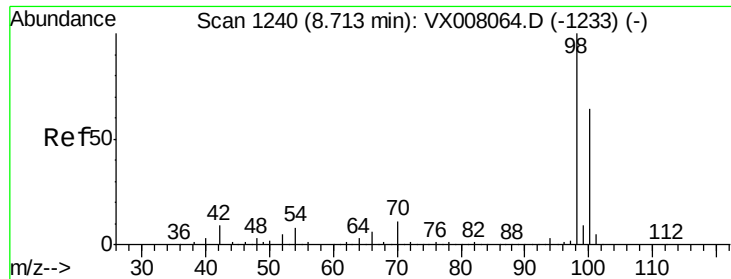
Tot Ion: 62 Resp: 1387
Ion Ratio Lower Upper
62 100
98 6.7 0.0 20.4



#44
Trichloroethene
Concen: 38.357 ug/l
RT: 7.21 min Scan# 994
Delta R.T. 0.00 min
Lab File: VX008090.D
Acq: 15 Mar 2019 00:40

Tgt Ion:130 Resp: 127933
Ion Ratio Lower Upper
130 100
95 90.8 0.0 188.0

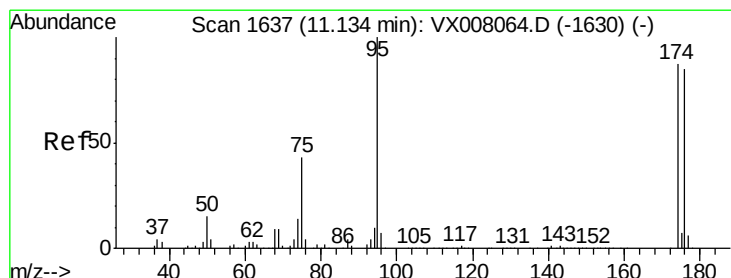
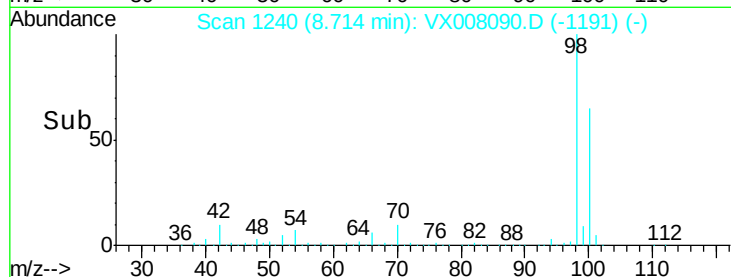
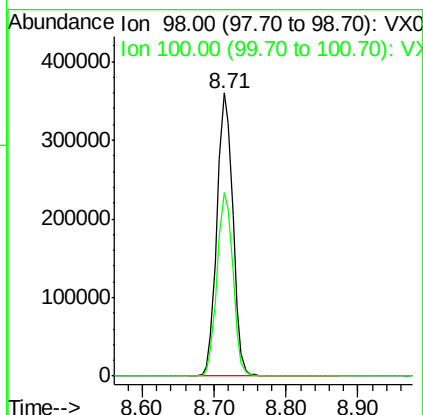
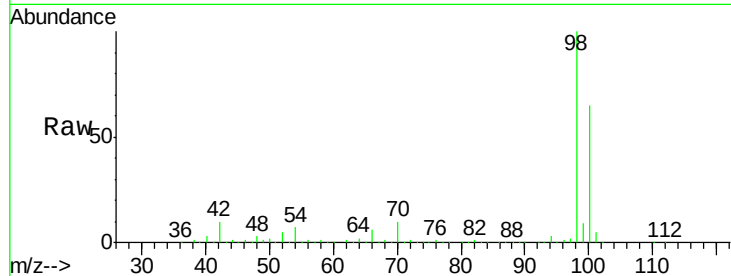




#50
Toluene-d8
Concen: 49.729 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008090.D
Acq: 15 Mar 2019 00:40

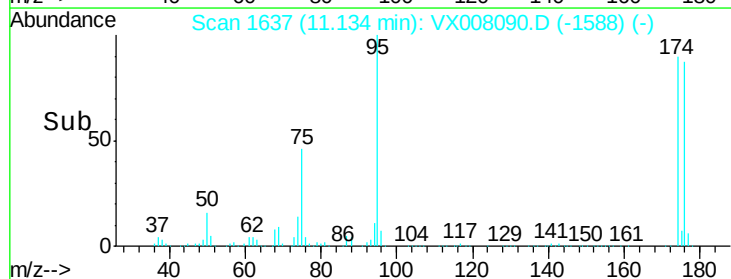
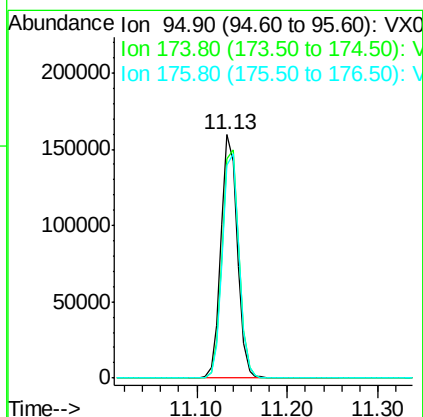
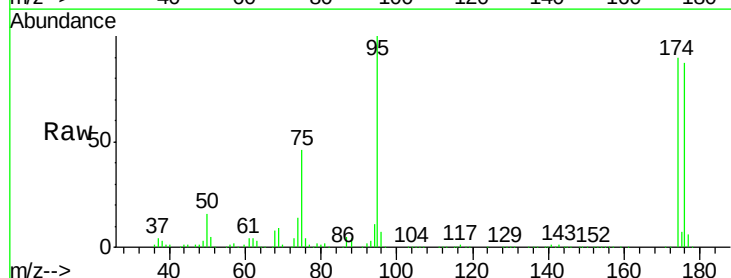
Instrument :
MSVOA_X
ClientSampleId :
RE104D2-20190307

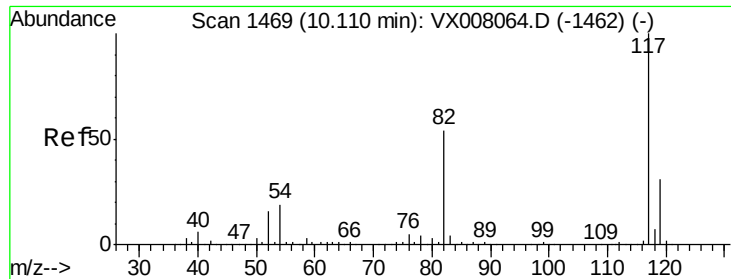
Tot Ion: 98 Resp: 549986
Ion Ratio Lower Upper
98 100
100 65.1 51.7 77.5



#62
4-Bromofluorobenzene
Concen: 50.855 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008090.D
Acq: 15 Mar 2019 00:40

Tgt Ion: 95 Resp: 201483
Ion Ratio Lower Upper
95 100
174 96.2 0.0 182.8
176 93.9 0.0 178.0

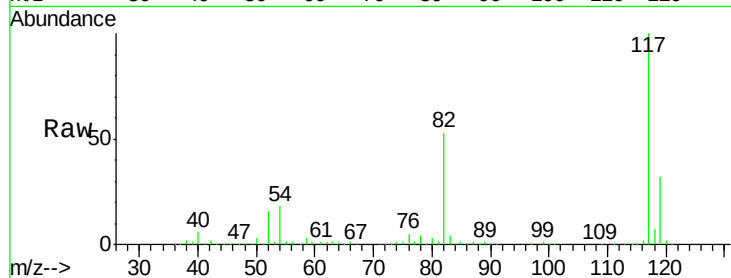




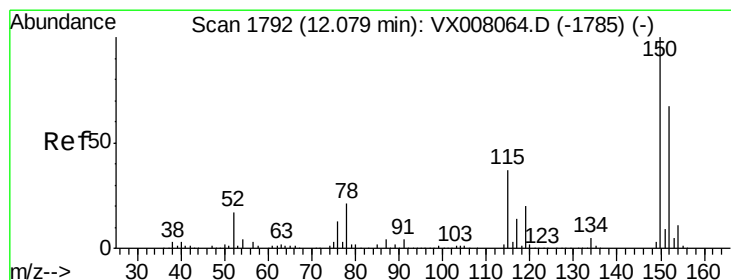
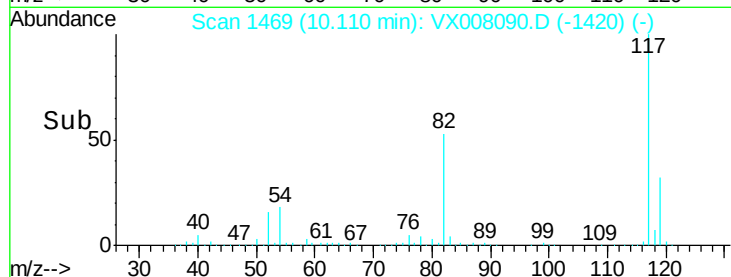
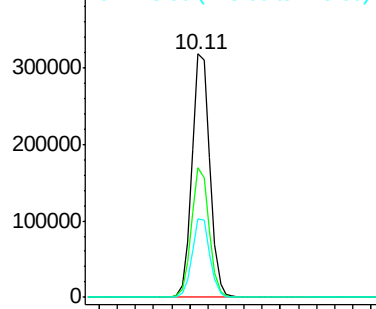
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008090.D
Acq: 15 Mar 2019 00:40

Instrument :
MSVOA_X
ClientSampleId :
RE104D2-20190307

Tot Ion:117 Resp: 436007
Ion Ratio Lower Upper
117 100
82 53.2 44.3 66.5
119 32.4 25.3 37.9

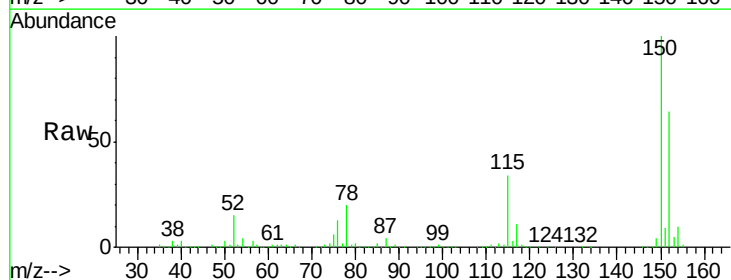


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

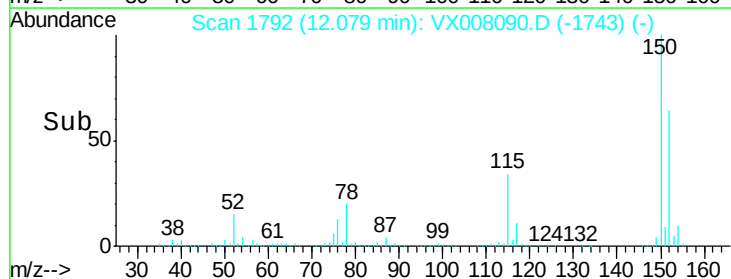
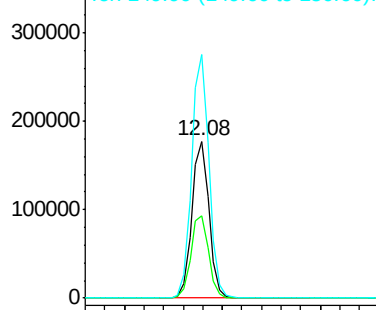


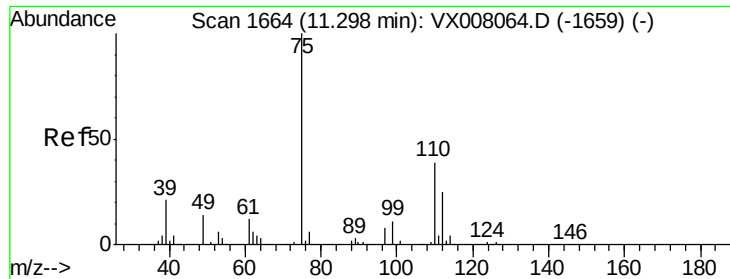
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008090.D
Acq: 15 Mar 2019 00:40

Tgt Ion:152 Resp: 214234
Ion Ratio Lower Upper
152 100
115 54.3 38.6 115.7
150 156.5 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

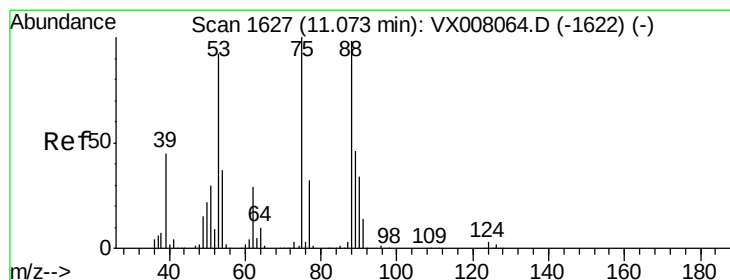
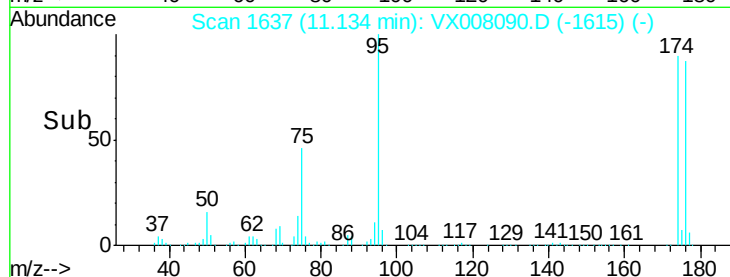
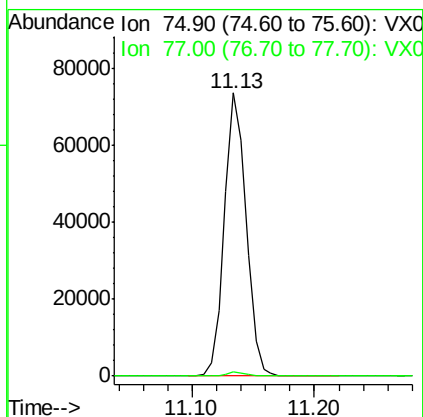
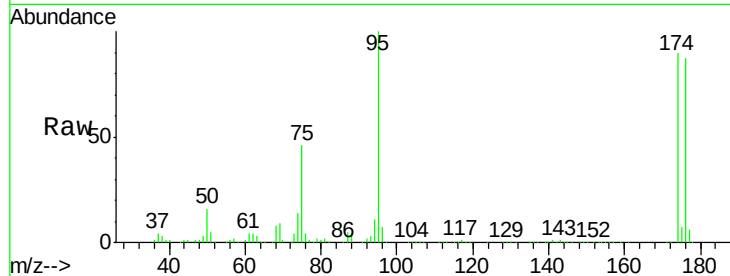




#76
 1,2,3-Trichloropropane
 Concen: 24.320 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008090.D
 Acq: 15 Mar 2019 00:40

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D2-20190307

Tot Ion: 75 Resp: 90484
 Ion Ratio Lower Upper
 75 100
 77 1.3 18.9 56.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.205 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008090.D
 Acq: 15 Mar 2019 00:40

Tgt Ion: 75 Resp: 90484
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.1 114.1#
 89 0.0 36.3 54.5#

