

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052019\
 Data File : VX009737.D
 Acq On : 20 May 2019 19:34
 Operator : JC/SP
 Sample : K2910-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S73-0235

Quant Time: May 21 07:43:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	176004	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	280881	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	251627	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	110924	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	118442	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
35) Dibromofluoromethane	5.50	113	86584	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
50) Toluene-d8	8.71	98	356296	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
62) 4-Bromofluorobenzene	11.13	95	119764	46.24	ug/l	0.00
Spiked Amount			Recovery	=	92.48%	

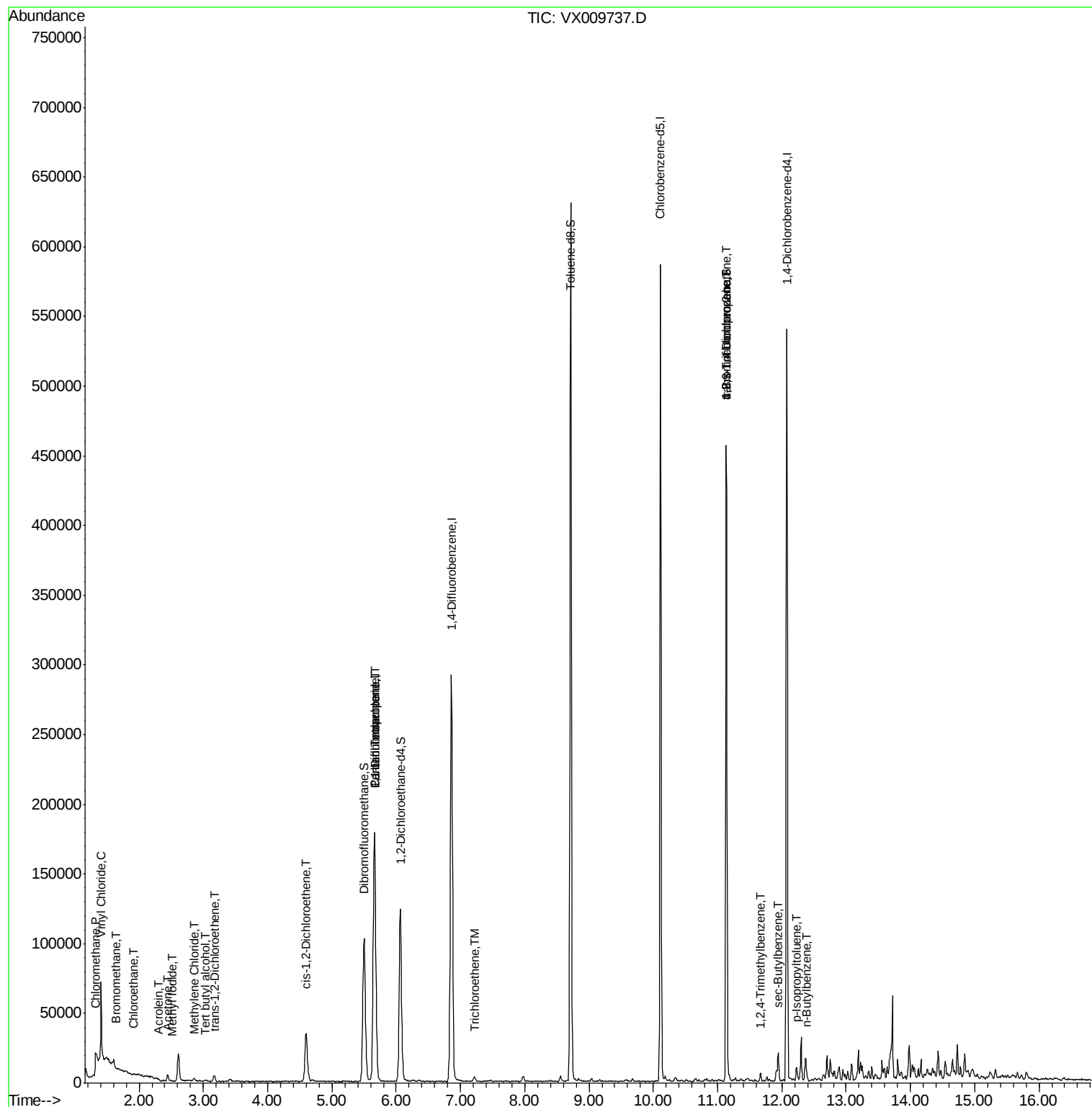
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1353	0.611	ug/l #	77
4) Vinyl Chloride	1.41	62	37385	17.314	ug/l	99
5) Bromomethane	1.65	94	272	0.210	ug/l #	69
6) Chloroethane	1.92	64	541	0.390	ug/l #	46
10) Methyl Iodide	2.51	142	64	4.624	ug/l #	42
11) Tert butyl alcohol	3.04	59	892	1.604	ug/l #	86
13) Acrolein	2.29	56	125	0.248	ug/l #	14
16) Acetone	2.45	43	5258	4.076	ug/l	97
20) Methylene Chloride	2.86	84	602	0.288	ug/l #	89
21) trans-1,2-Dichloroethene	3.17	96	1436	0.802	ug/l #	79
27) cis-1,2-Dichloroethene	4.60	96	22159	10.366	ug/l	89
28) Bromochloromethane	5.02	49	19	Below Cal	#	20
36) 1,1-Dichloropropene	5.66	75	13666	5.235	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16211	6.835	ug/l #	18
44) Trichloroethene	7.22	130	1139	0.583	ug/l	87
76) 1,2,3-Trichloropropane	11.13	75	61270	23.812	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61270	60.927	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.66	105	1775	0.260	ug/l	72
85) sec-Butylbenzene	11.94	105	9874	1.261	ug/l	81
86) p-Isopropyltoluene	12.23	119	3786	0.538	ug/l	93
89) n-Butylbenzene	12.39	91	2479	0.389	ug/l #	66

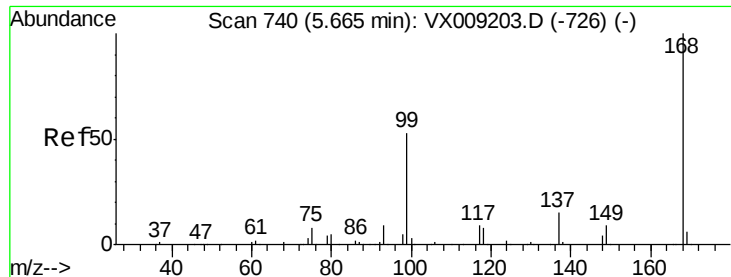
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX052019\
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Quant Time: May 21 07:43:04 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

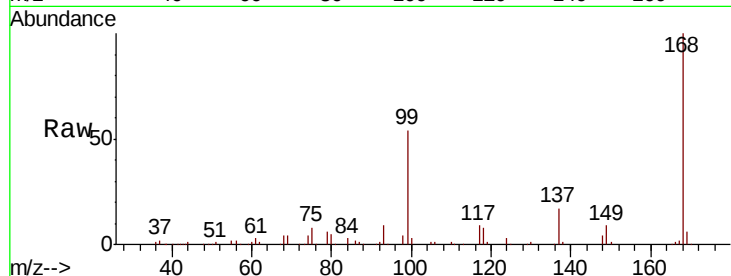
S73-0235

Tot Ion:168 Resp: 176004

Ion Ratio Lower Upper

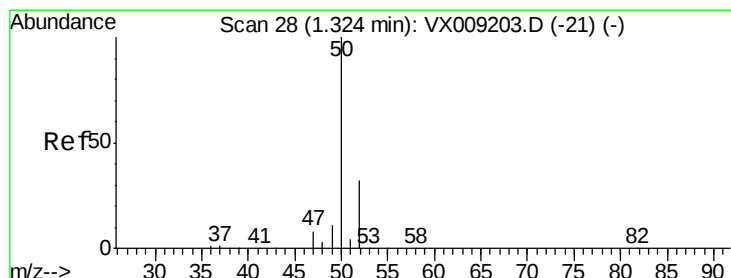
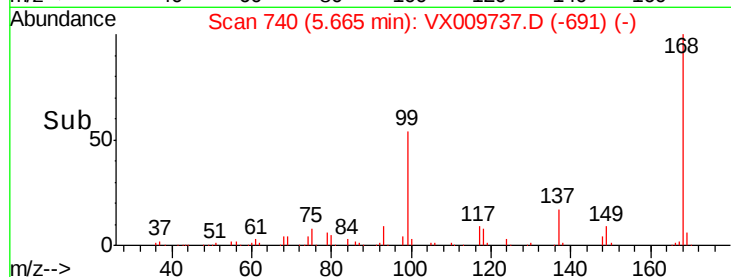
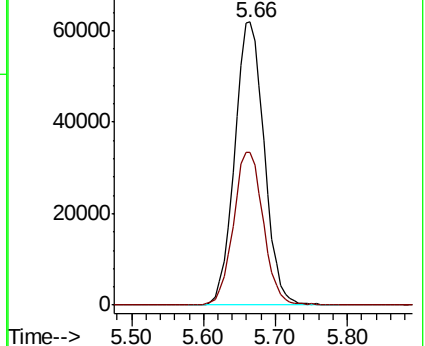
168 100

99 54.1 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.611 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009737.D

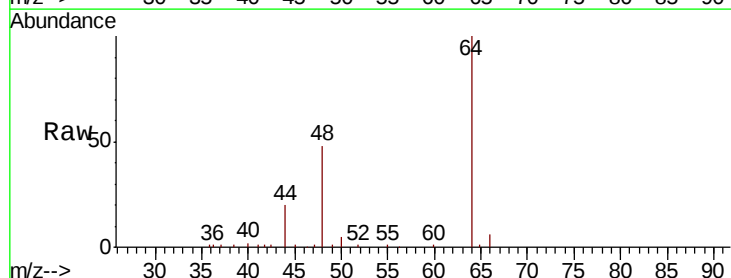
Acq: 20 May 2019 19:34

Tgt Ion: 50 Resp: 1353

Ion Ratio Lower Upper

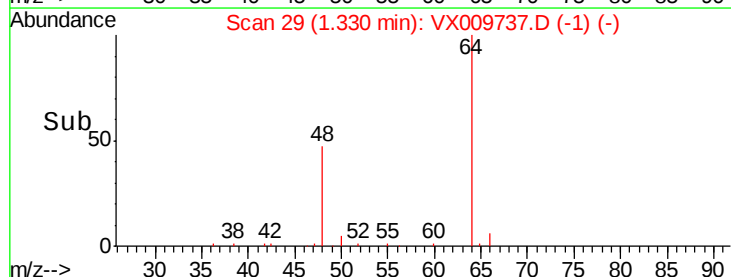
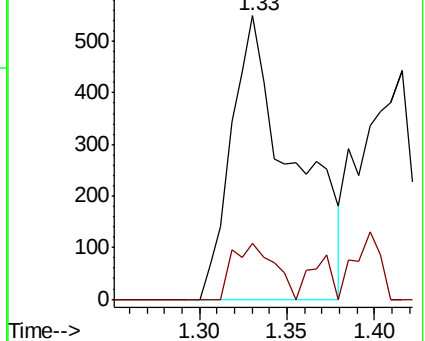
50 100

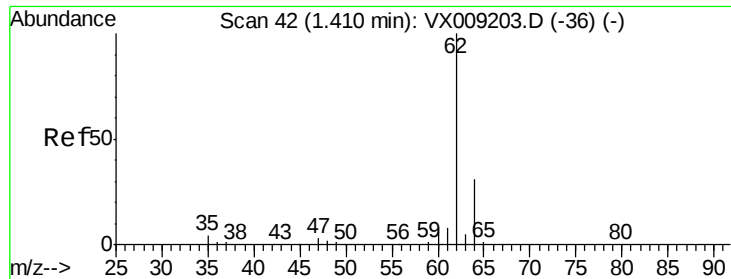
52 19.7 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 17.314 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

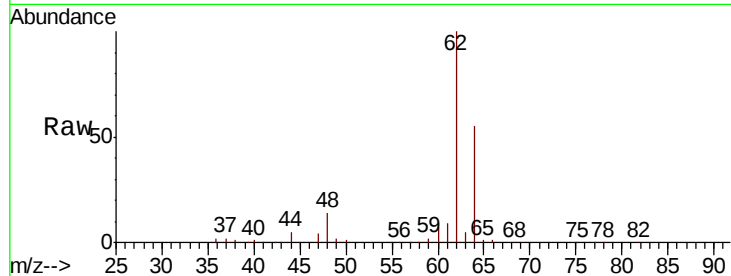
S73-0235

Tot Ion: 62 Resp: 37385

Ion Ratio Lower Upper

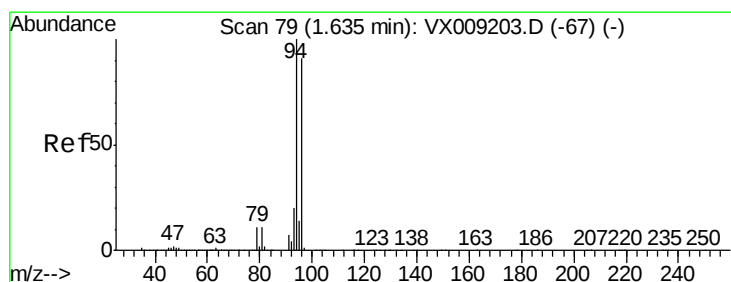
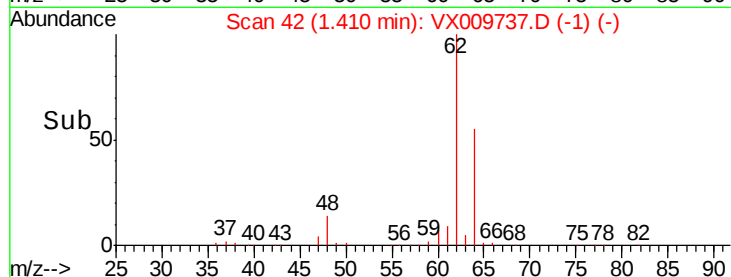
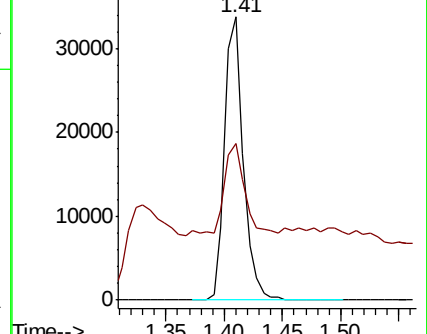
62 100

64 31.2 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.210 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX009737.D

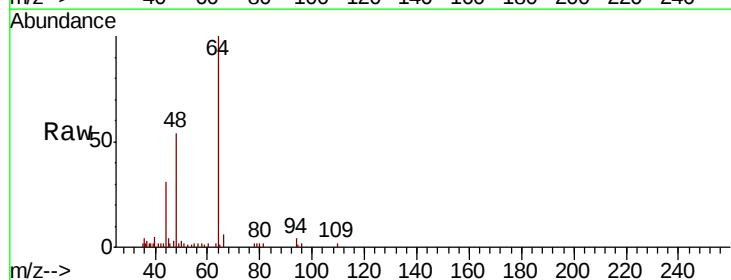
Acq: 20 May 2019 19:34

Tgt Ion: 94 Resp: 272

Ion Ratio Lower Upper

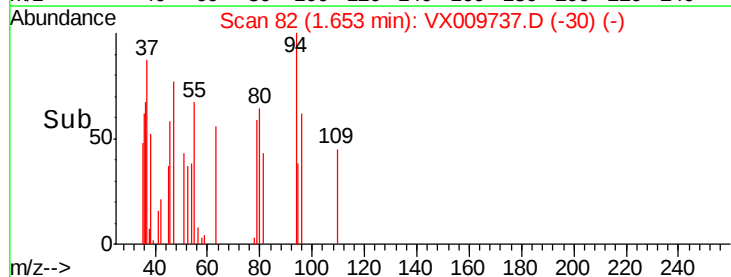
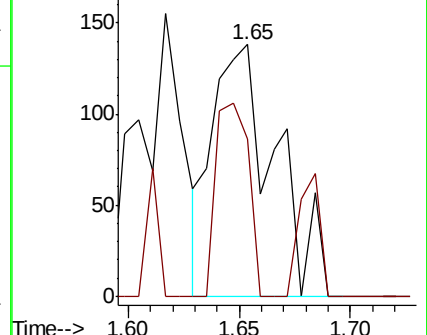
94 100

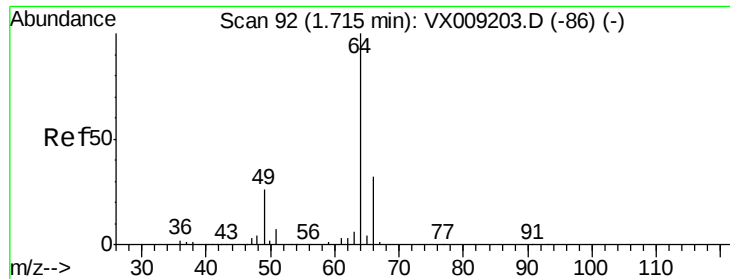
96 62.3 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.390 ug/l

RT: 1.92 min Scan# 125

Delta R.T. 0.20 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

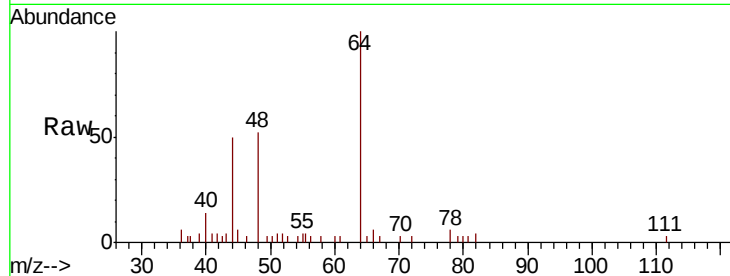
S73-0235

Tot Ion: 64 Resp: 541

Ion Ratio Lower Upper

64 100

66 1.6 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

2500

2000

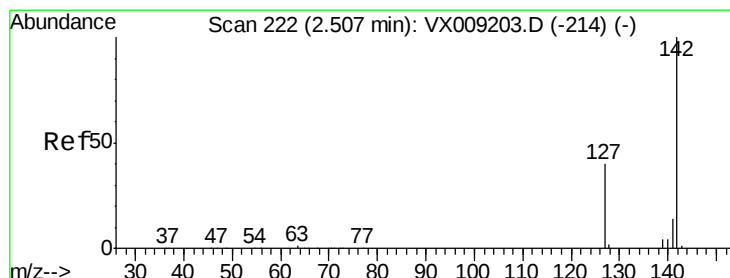
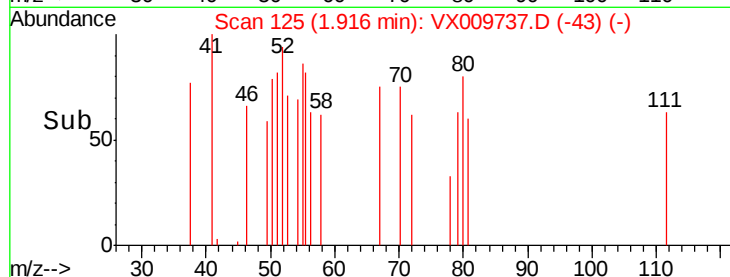
1500

1000

500

0

Time--> 1.88 1.90 1.92 1.94



#10

Methyl Iodide

Concen: 4.624 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

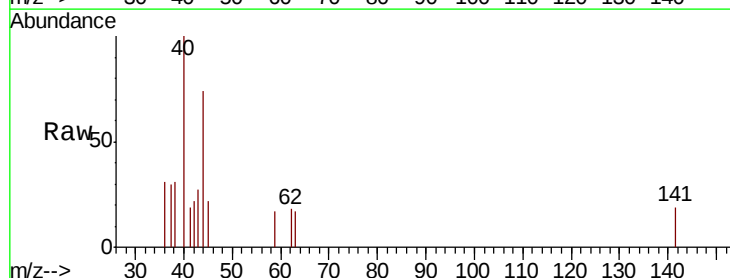
Tgt Ion: 142 Resp: 64

Ion Ratio Lower Upper

142 100

127 0.0 32.7 49.1#

141 0.0 11.5 17.3#



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

80

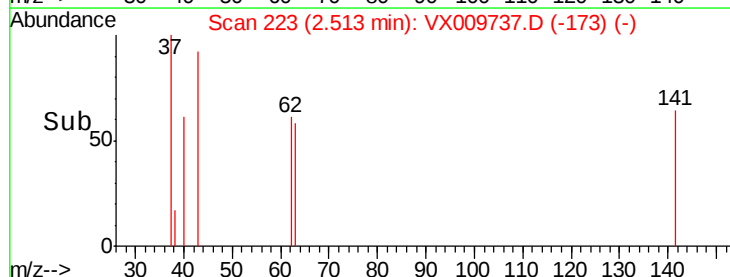
60

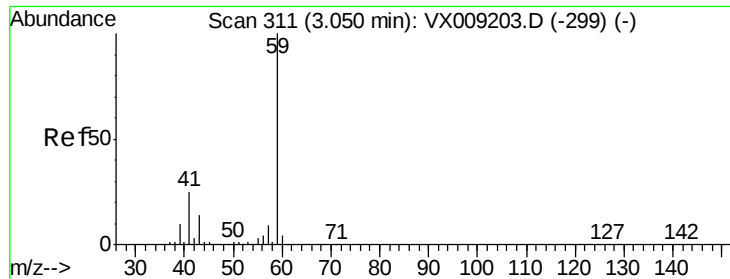
40

20

0

Time--> 2.48 2.50 2.52 2.54

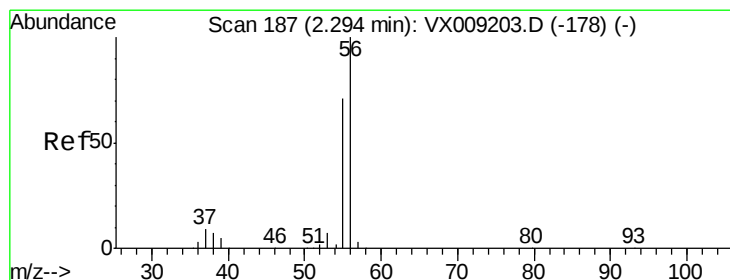
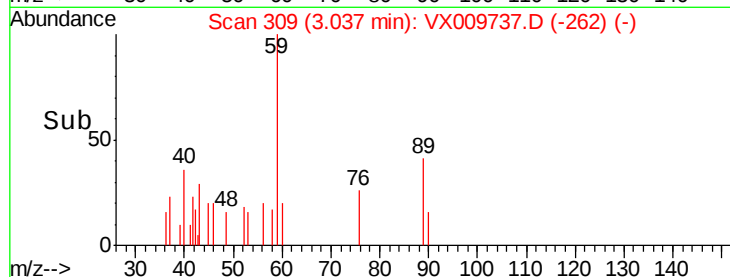
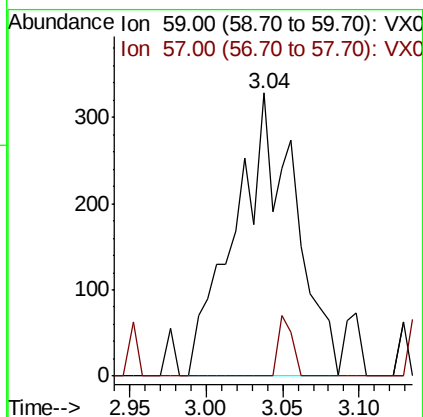
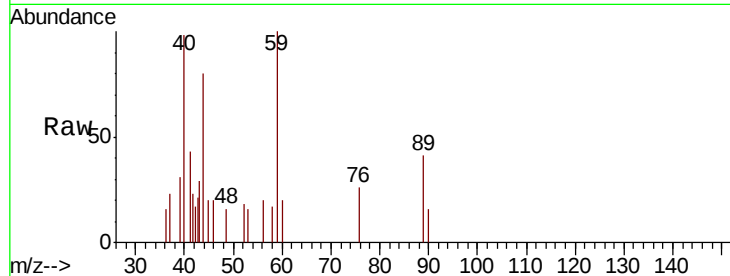




#11
Tert butyl alcohol
Concen: 1.604 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX009737.D
Acq: 20 May 2019 19:34

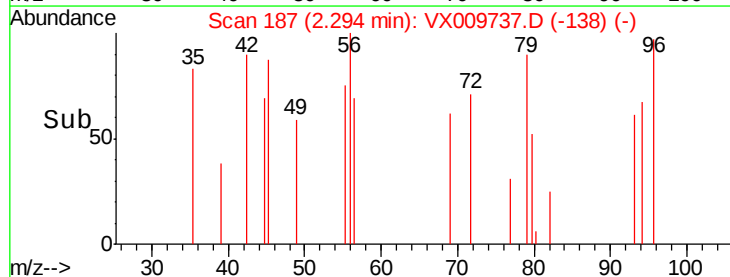
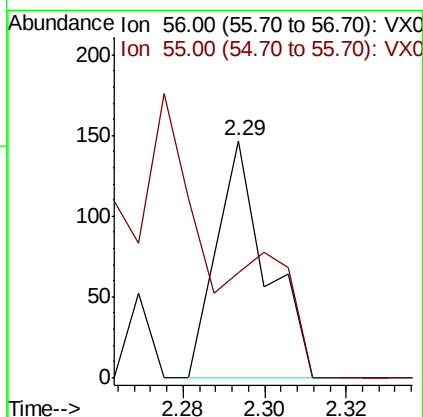
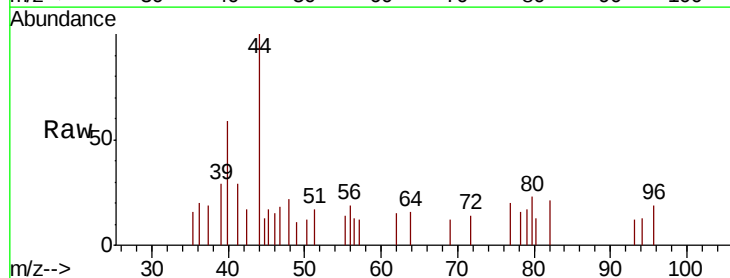
Instrument :
MSVOA_X
ClientSampled :
S73-0235

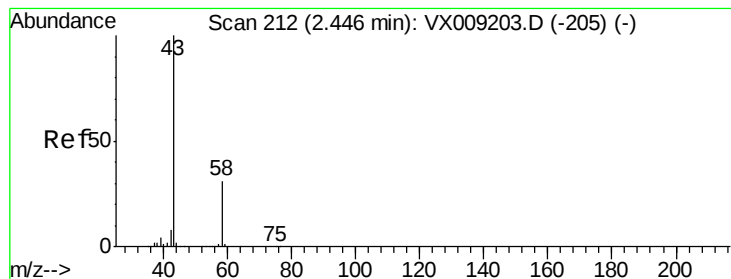
Tot Ion: 59 Resp: 892
Ion Ratio Lower Upper
59 100
57 4.9 8.2 12.2#



#13
Acrolein
Concen: 0.248 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX009737.D
Acq: 20 May 2019 19:34

Tgt Ion: 56 Resp: 125
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#





#16

Acetone

Concen: 4.076 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

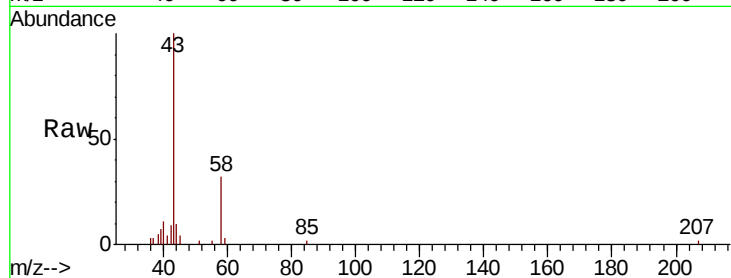
S73-0235

Tot Ion: 43 Resp: 5258

Ion Ratio Lower Upper

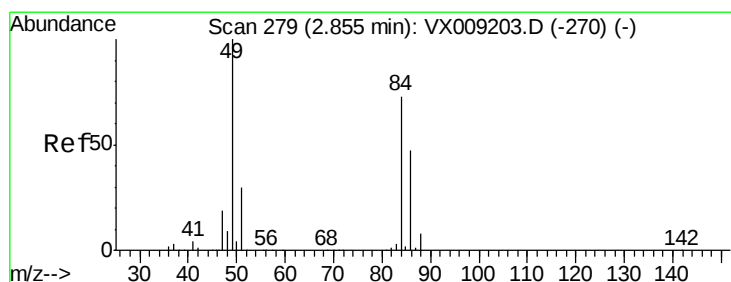
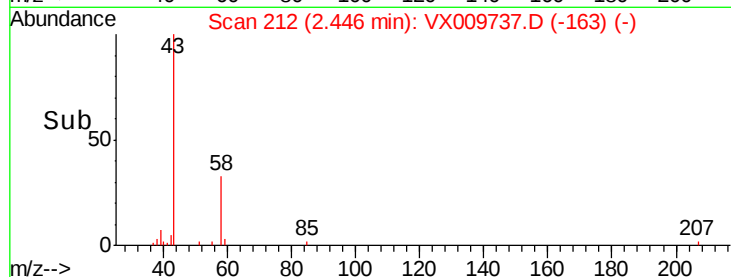
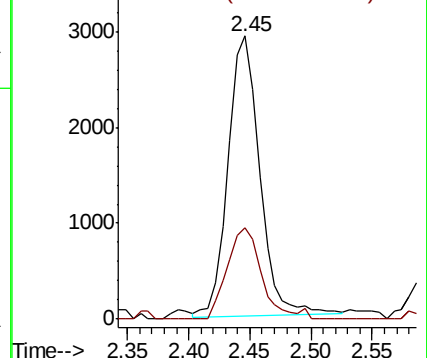
43 100

58 32.8 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 0.288 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

Tgt Ion: 84 Resp: 602

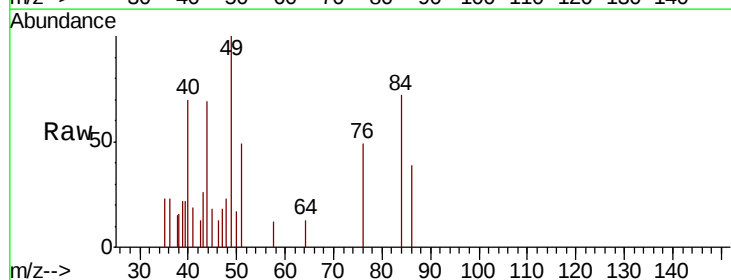
Ion Ratio Lower Upper

84 100

49 138.3 109.9 164.9

51 68.1 32.7 49.1#

86 54.0 52.0 78.0

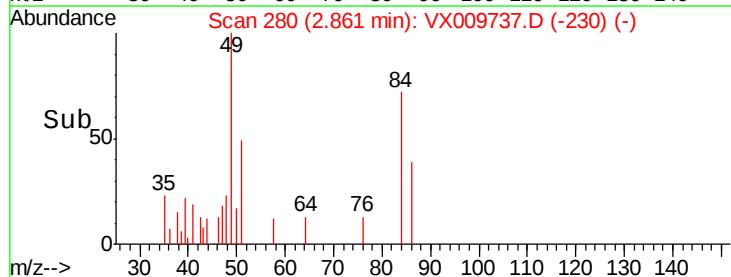
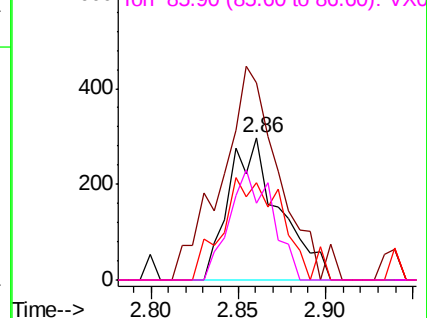


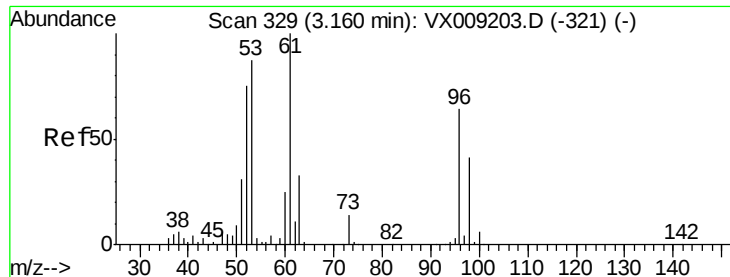
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#21

trans-1,2-Dichloroethene

Concen: 0.802 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

Instrument :

MSVOA_X

ClientSampled :

S73-0235

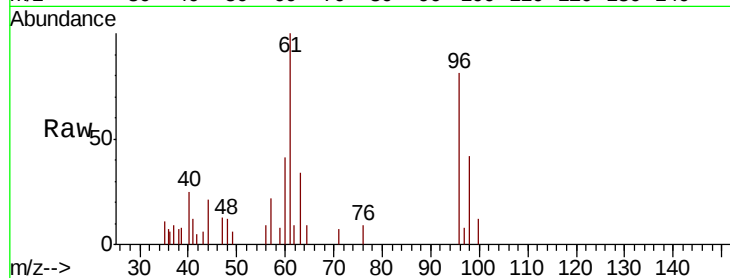
Tot Ion: 96 Resp: 1436

Ion Ratio Lower Upper

96 100

61 124.0 124.5 186.7#

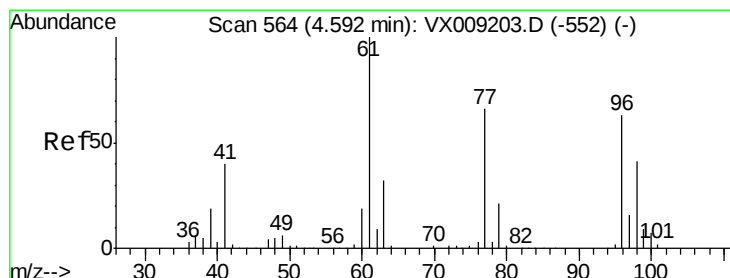
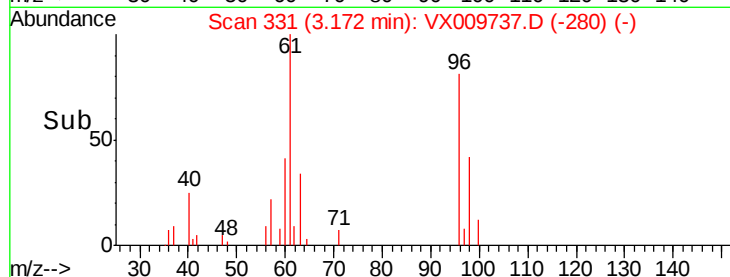
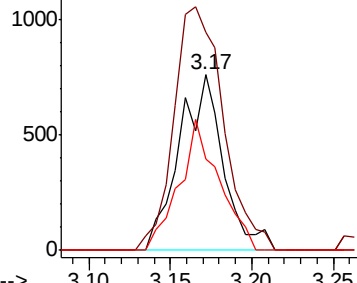
98 51.8 50.4 75.6



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



#27

cis-1,2-Dichloroethene

Concen: 10.366 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

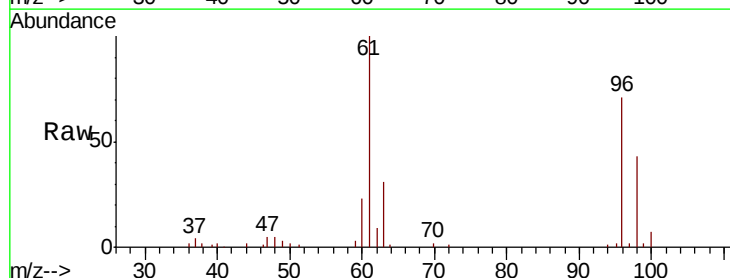
Tgt Ion: 96 Resp: 22159

Ion Ratio Lower Upper

96 100

61 142.1 0.0 324.0

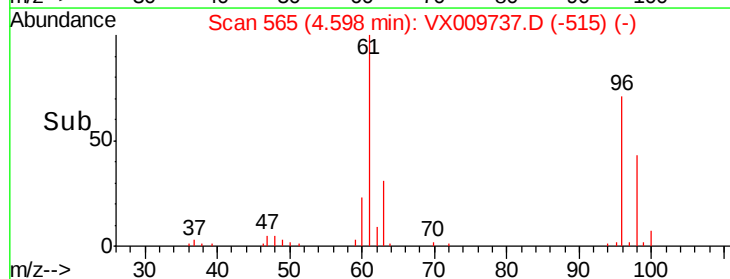
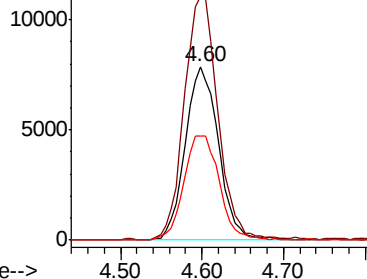
98 64.0 0.0 130.4

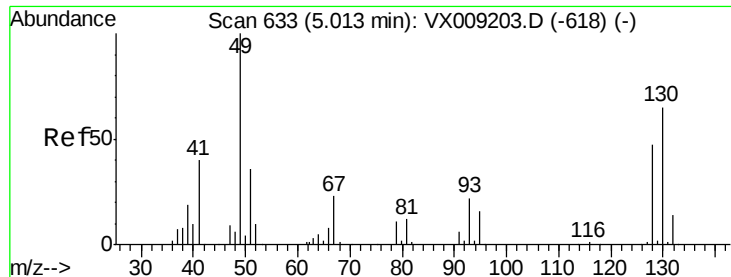


Abundance Ion 95.90 (95.60 to 96.60): VX0

15000 Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 635

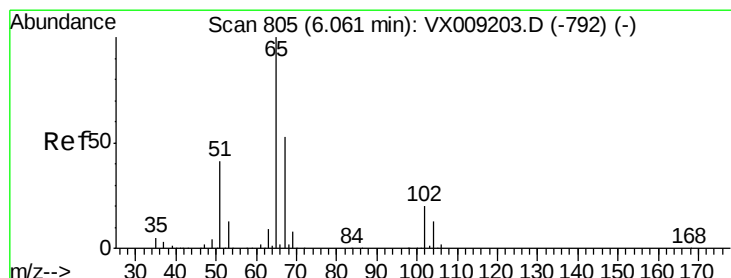
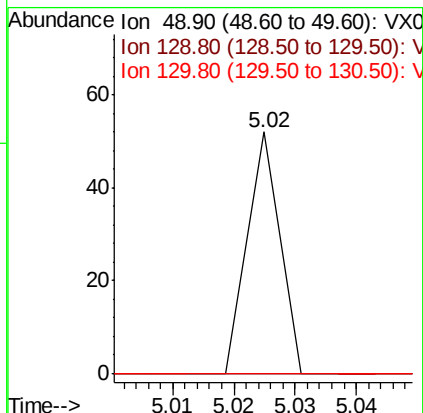
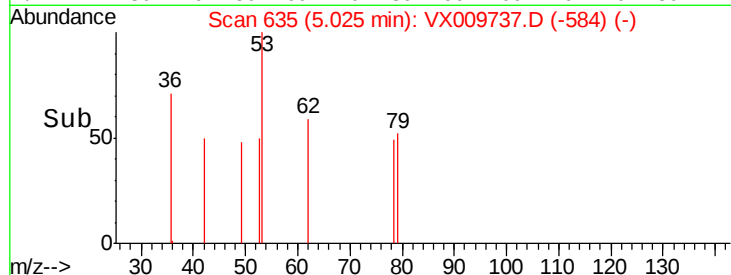
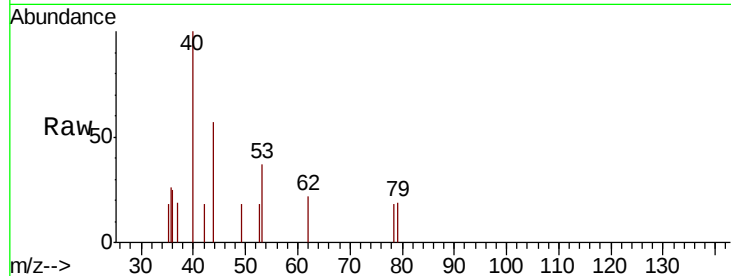
Delta R.T. 0.01 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

Instrument :
MSVOA_X
ClientSampleId :
S73-0235

Tot Ion: 49 Resp: 19
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 51.2 76.8#



#33

1,2-Dichloroethane-d4

Concen: 49.296 ug/l

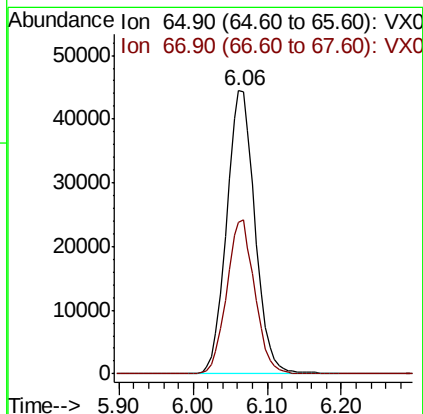
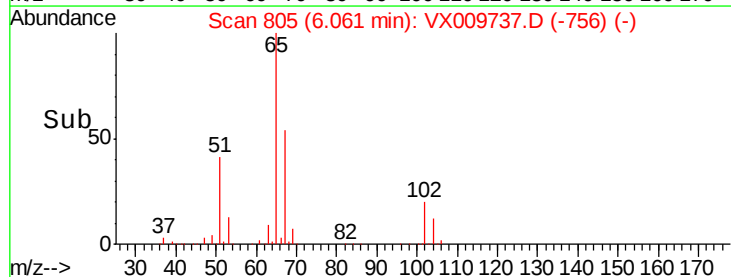
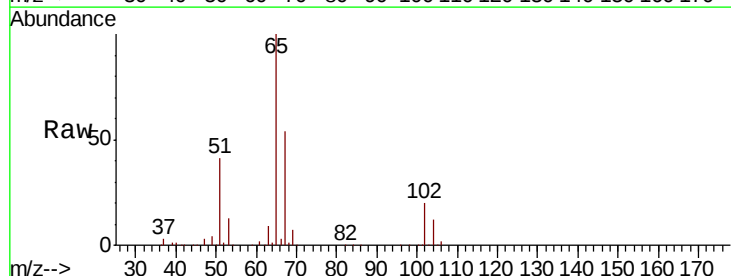
RT: 6.06 min Scan# 805

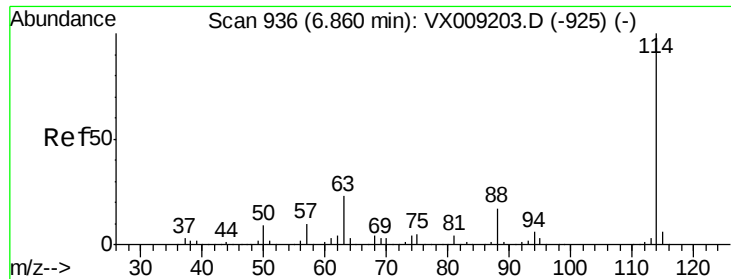
Delta R.T. -0.00 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

Tgt Ion: 65 Resp: 118442
Ion Ratio Lower Upper
65 100
67 54.0 0.0 106.6

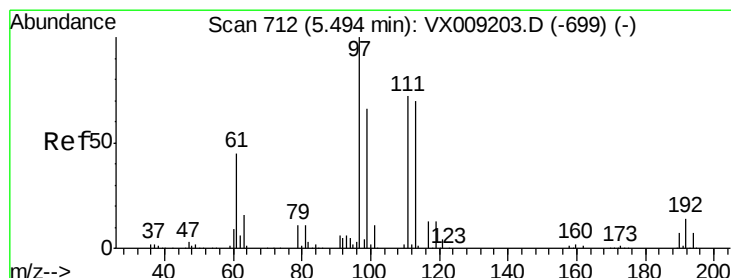
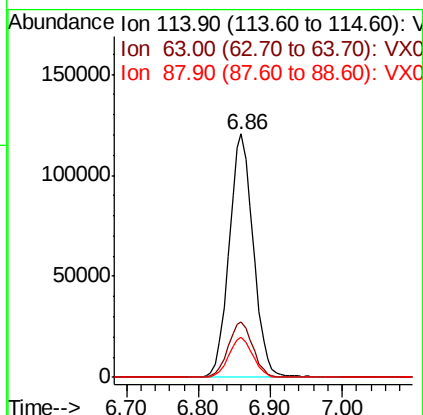
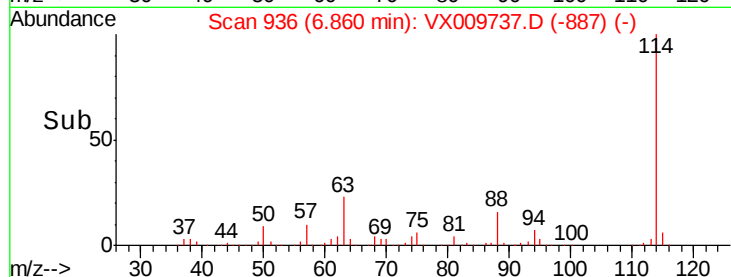
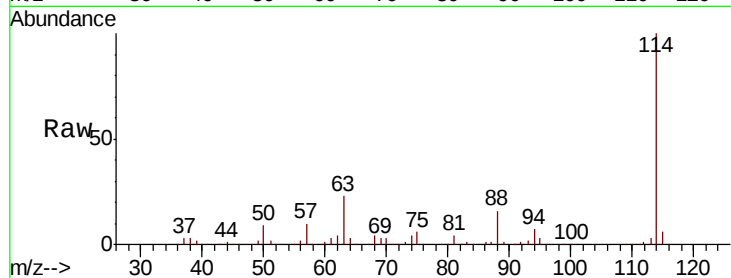




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX009737.D
Acq: 20 May 2019 19:34

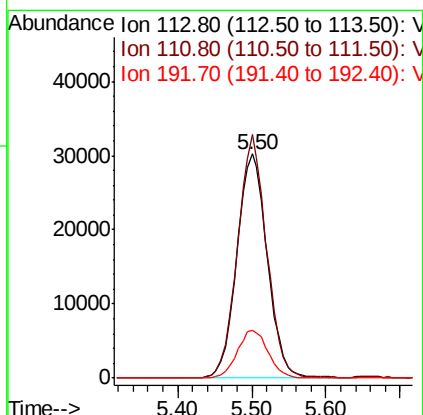
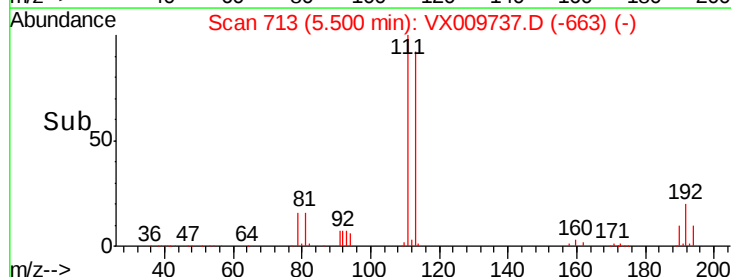
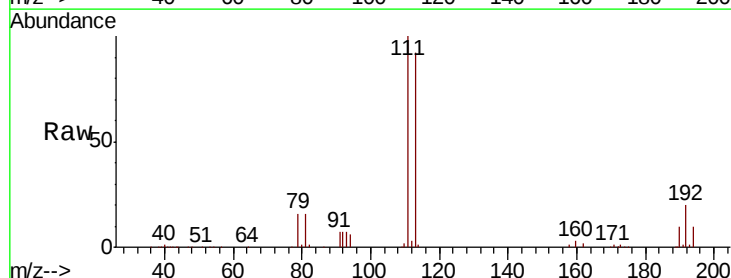
Instrument :
MSVOA_X
ClientSampleId :
S73-0235

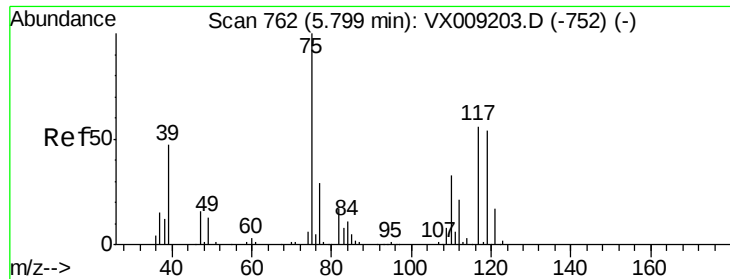
Tot Ion:114 Resp: 280881
Ion Ratio Lower Upper
114 100
63 22.8 0.0 45.6
88 16.4 0.0 33.2



#35
Dibromofluoromethane
Concen: 49.036 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.01 min
Lab File: VX009737.D
Acq: 20 May 2019 19:34

Tgt Ion:113 Resp: 86584
Ion Ratio Lower Upper
113 100
111 103.7 82.8 124.2
192 21.8 17.0 25.6





#36

1,1-Dichloropropene

Concen: 5.235 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

S73-0235

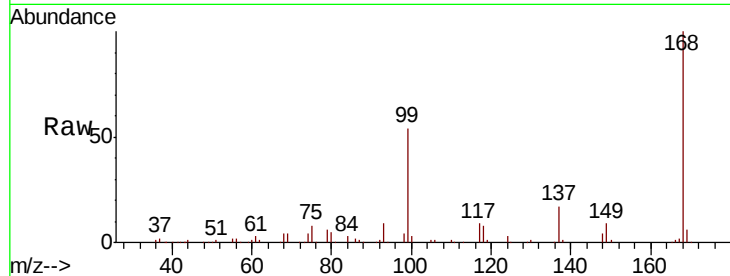
Tot Ion: 75 Resp: 13666

Ion Ratio Lower Upper

75 100

110 9.3 16.9 50.6#

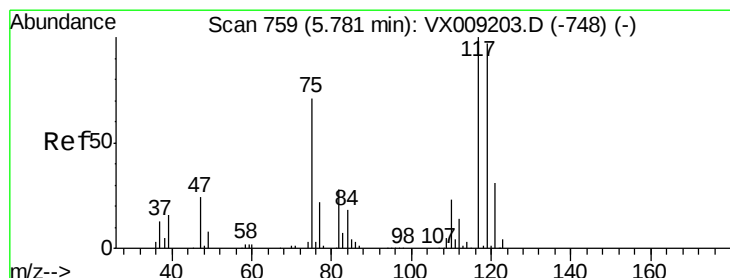
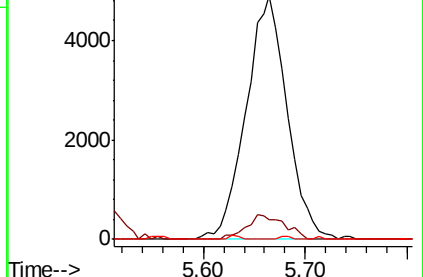
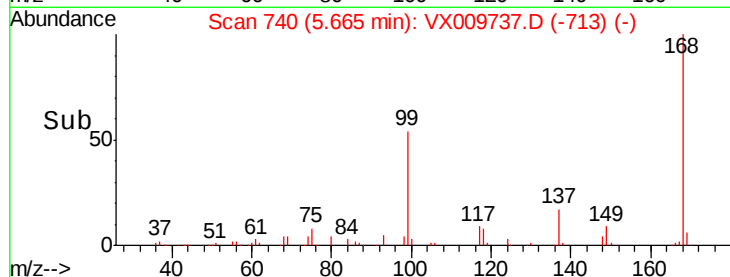
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX009737.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX009737.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX009737.D (-713) (-)



#38

Carbon Tetrachloride

Concen: 6.835 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

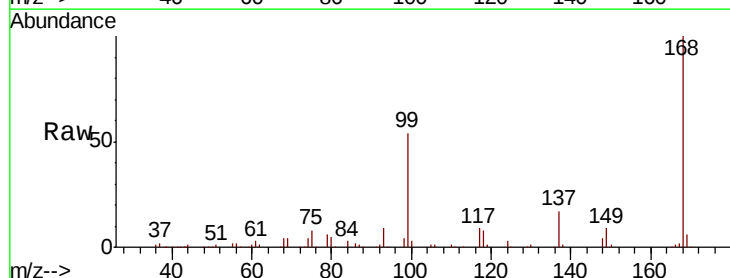
Tgt Ion: 117 Resp: 16211

Ion Ratio Lower Upper

117 100

119 8.3 77.5 116.3#

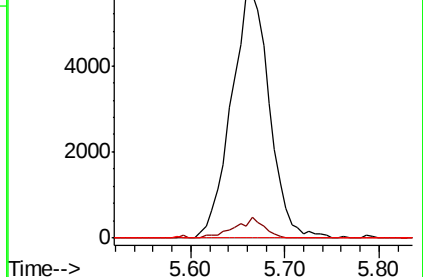
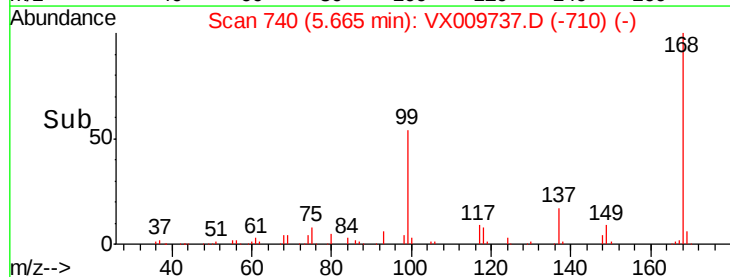
121 0.0 24.7 37.1#

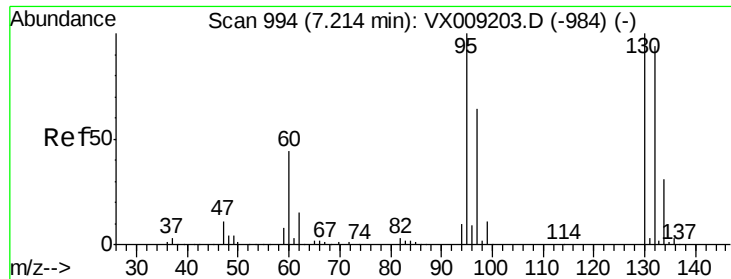


Abundance Ion 116.80 (116.50 to 117.50): VX009737.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX009737.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX009737.D (-710) (-)

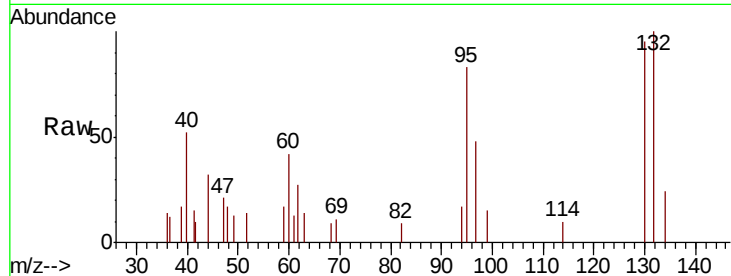




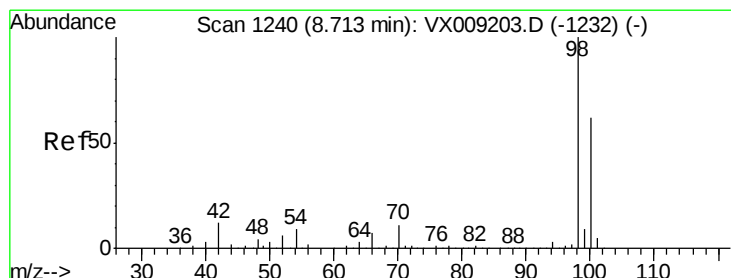
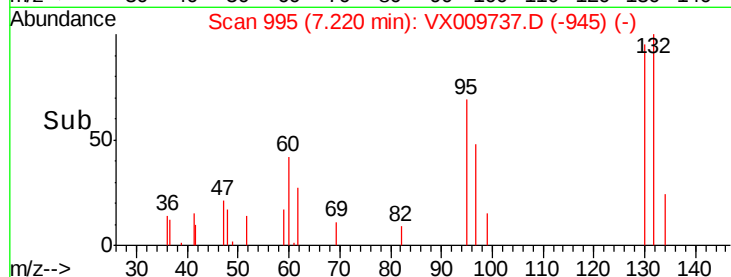
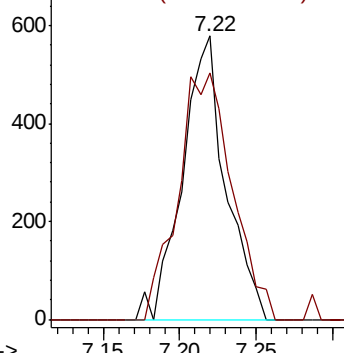
#44
 Trichloroethene
 Concen: 0.583 ug/l
 RT: 7.22 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VX009737.D
 Acq: 20 May 2019 19:34

Instrument :
 MSVOA_X
 ClientSampleId :
 S73-0235

Tot Ion:130 Resp: 1139
 Ion Ratio Lower Upper
 130 100
 95 86.9 0.0 199.2

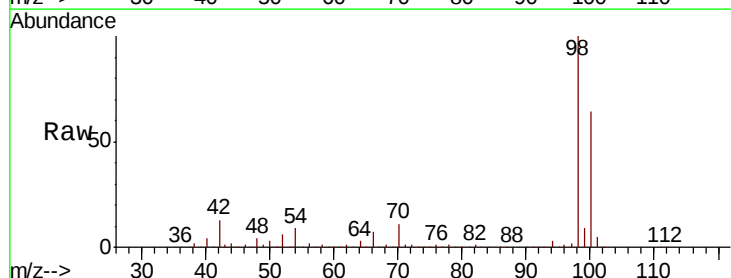


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

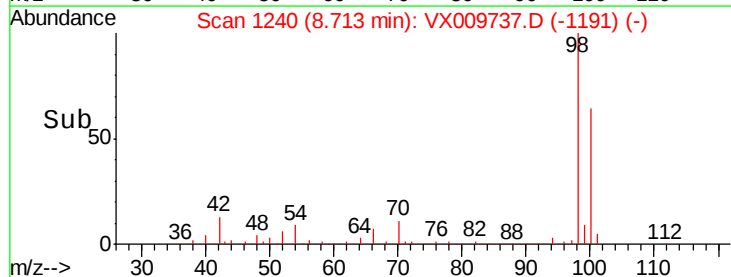
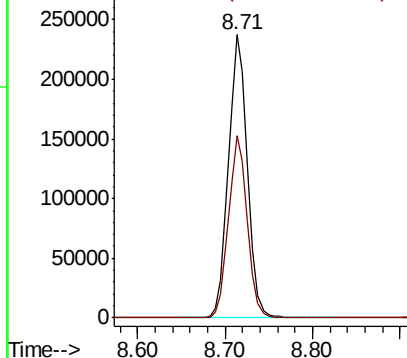


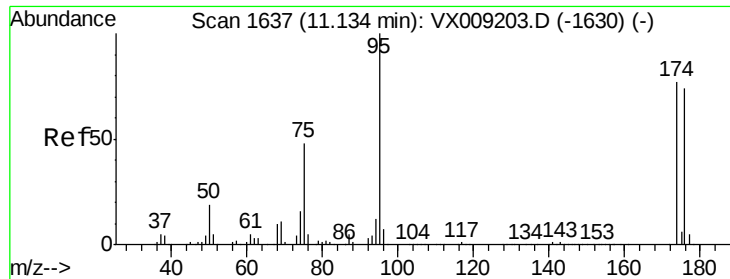
#50
 Toluene-d8
 Concen: 49.981 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX009737.D
 Acq: 20 May 2019 19:34

Tgt Ion: 98 Resp: 356296
 Ion Ratio Lower Upper
 98 100
 100 63.7 51.2 76.8



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





#62

4-Bromofluorobenzene

Concen: 46.236 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

S73-0235

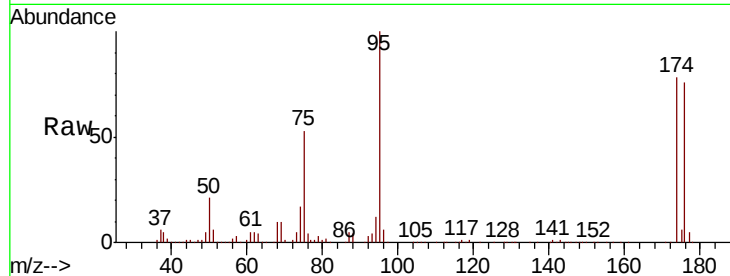
Tot Ion: 95 Resp: 119764

Ion Ratio Lower Upper

95 100

174 82.4 0.0 161.6

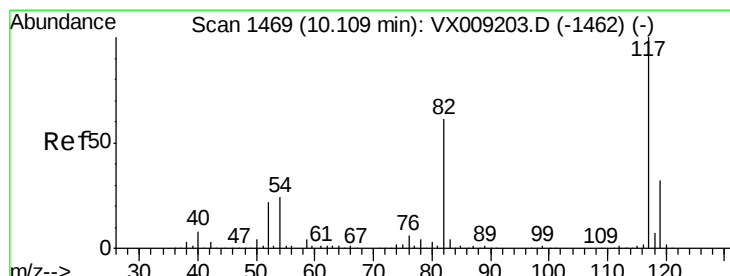
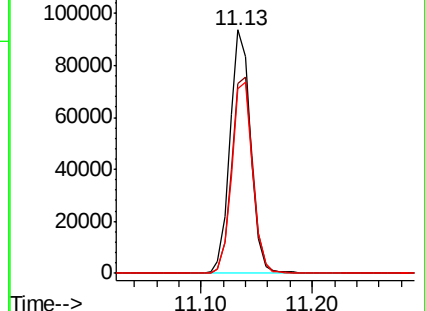
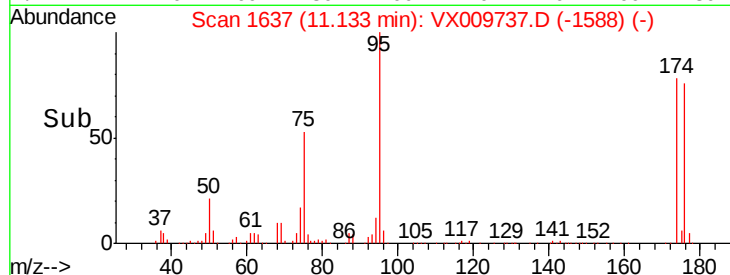
176 79.3 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009737.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009737.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009737.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

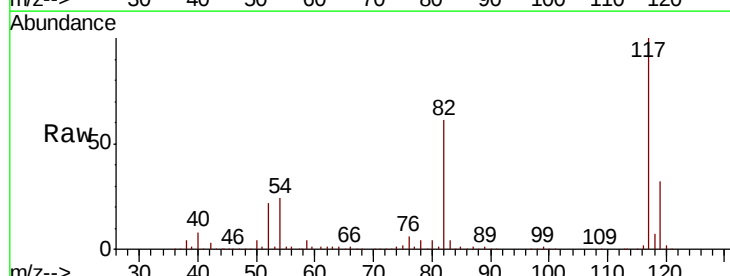
Tgt Ion: 117 Resp: 251627

Ion Ratio Lower Upper

117 100

82 60.5 48.8 73.2

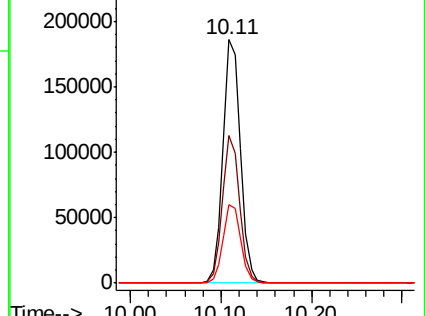
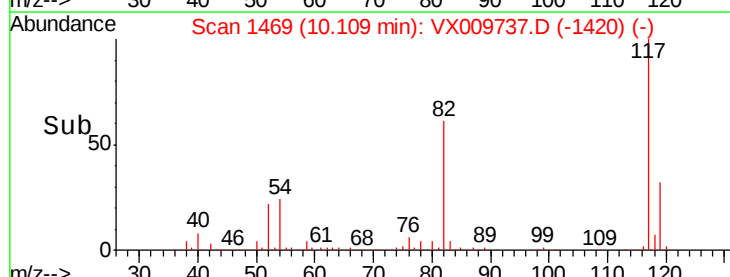
119 32.1 25.8 38.6

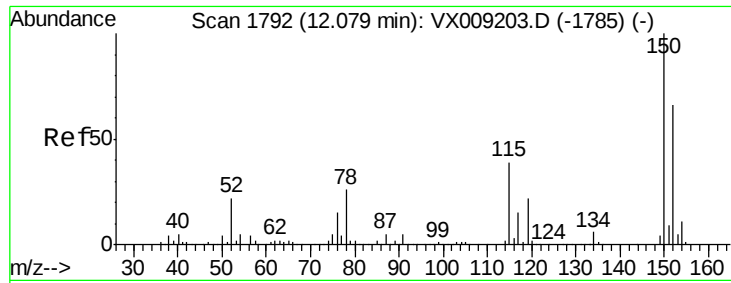


Abundance Ion 116.90 (116.60 to 117.60): VX009737.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009737.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009737.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

S73-0235

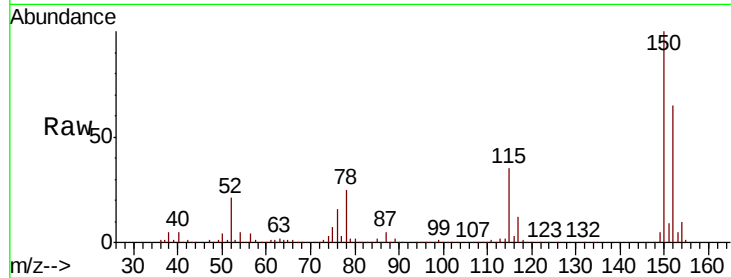
Tot Ion:152 Resp: 110924

Ion Ratio Lower Upper

152 100

115 57.4 41.2 123.6

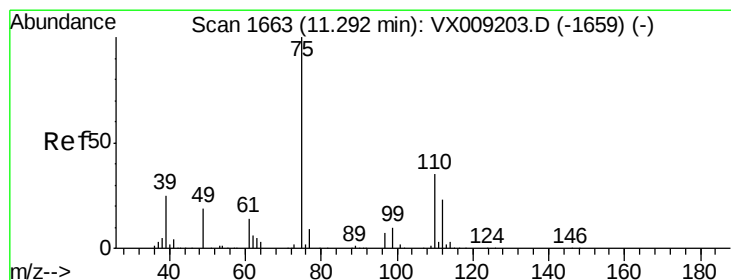
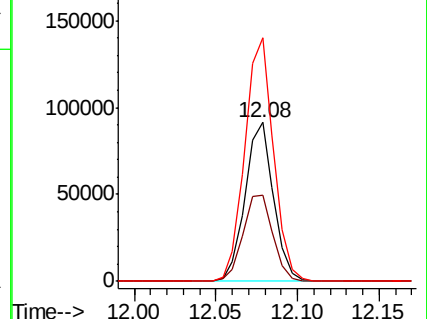
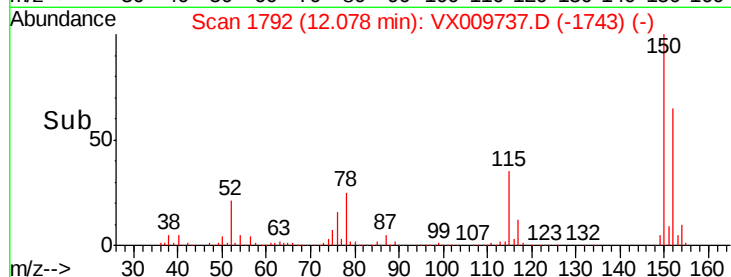
150 155.2 0.0 346.4



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: 23.812 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009737.D

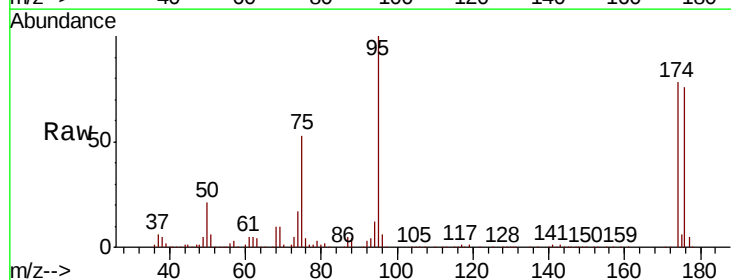
Acq: 20 May 2019 19:34

Tgt Ion: 75 Resp: 61270

Ion Ratio Lower Upper

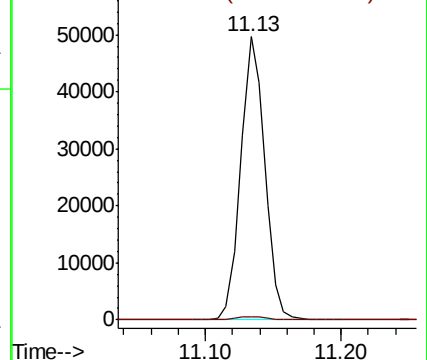
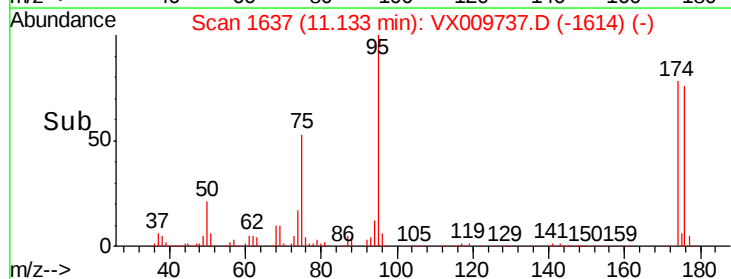
75 100

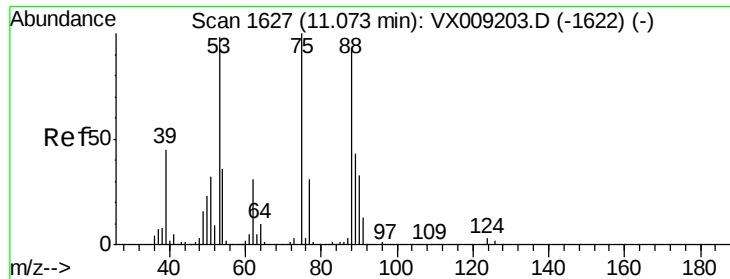
77 1.5 22.1 66.1#



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: 60.927 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

S73-0235

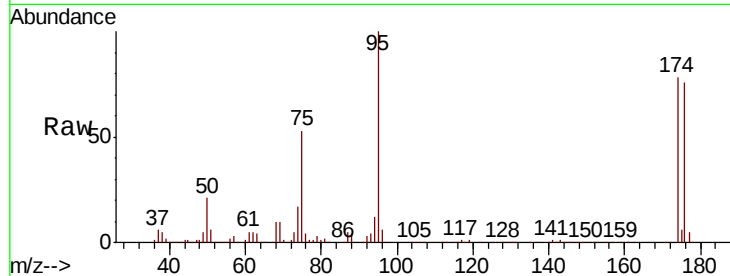
Tot Ion: 75 Resp: 61270

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

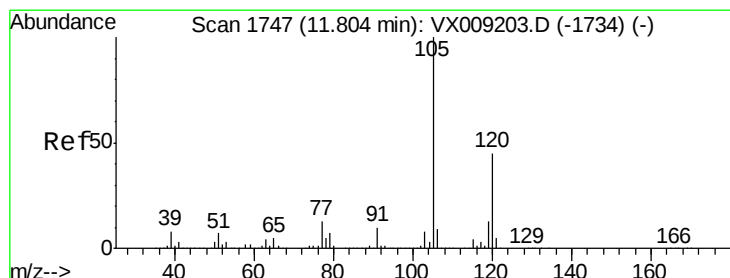
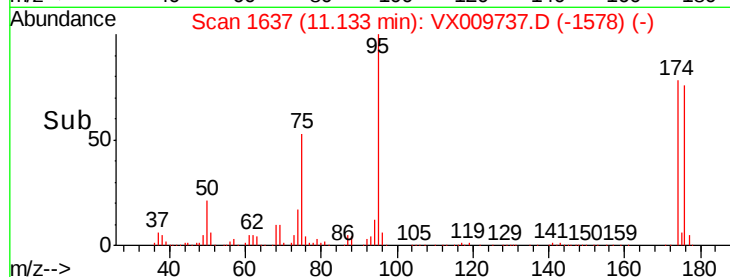
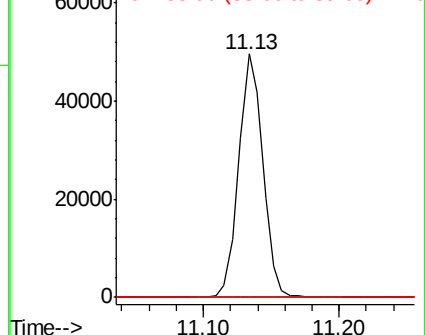
89 0.0 34.7 52.1#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.260 ug/l

RT: 11.66 min Scan# 1724

Delta R.T. -0.14 min

Lab File: VX009737.D

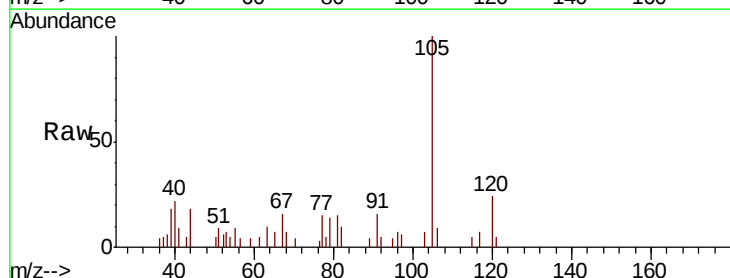
Acq: 20 May 2019 19:34

Tgt Ion: 105 Resp: 1775

Ion Ratio Lower Upper

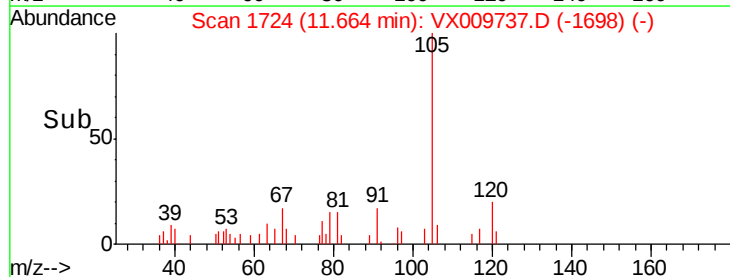
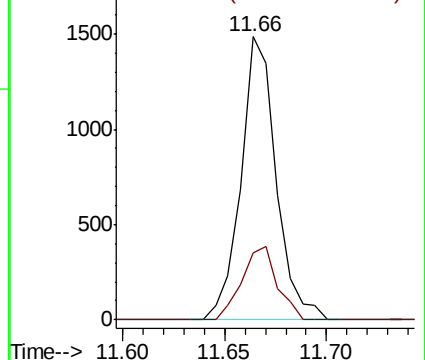
105 100

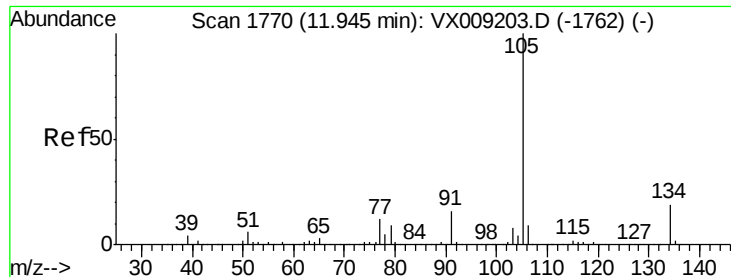
120 25.9 22.0 66.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 1.261 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

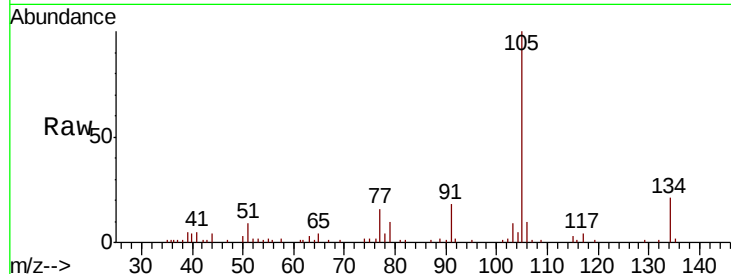
S73-0235

Tot Ion:105 Resp: 9874

Ion Ratio Lower Upper

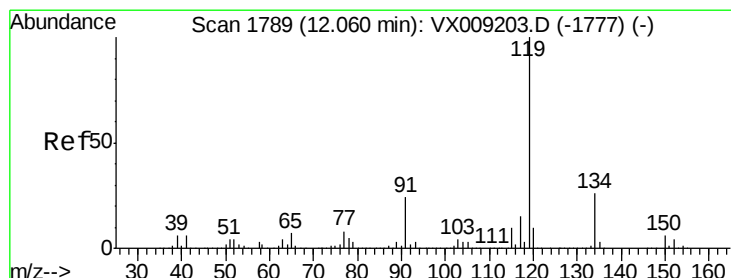
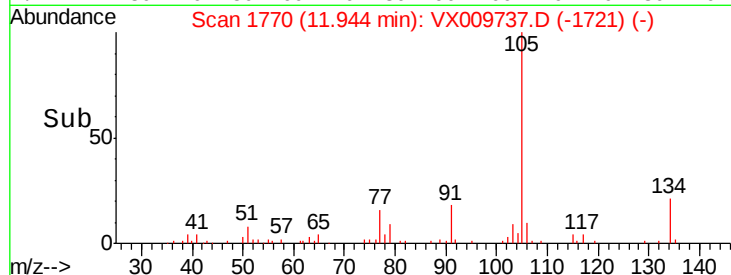
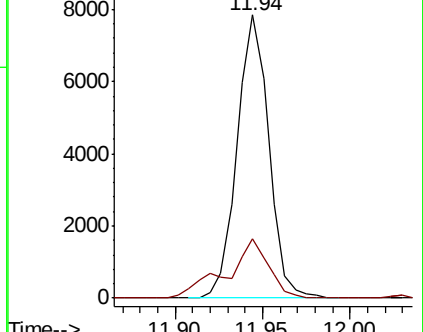
105 100

134 27.8 9.7 28.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.538 ug/l

RT: 12.23 min Scan# 1817

Delta R.T. 0.17 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

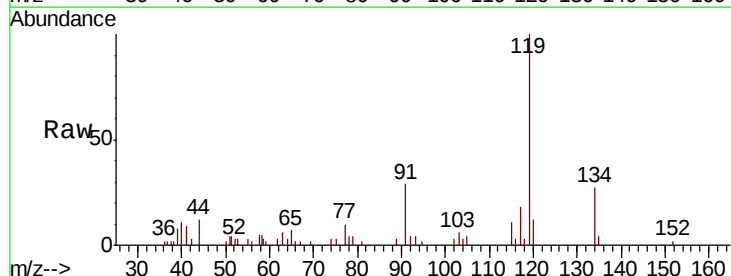
Tgt Ion:119 Resp: 3786

Ion Ratio Lower Upper

119 100

134 28.7 12.9 38.7

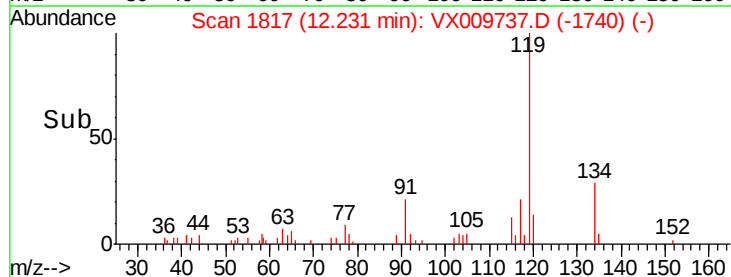
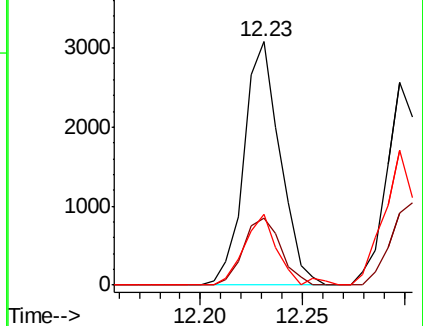
91 27.4 11.8 35.4

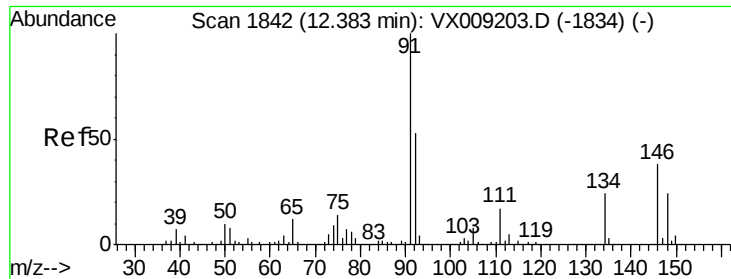


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0





#89

n-Butylbenzene

Concen: 0.389 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.01 min

Lab File: VX009737.D

Acq: 20 May 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

S73-0235

Tot Ion: 91 Resp: 2479

Ion Ratio Lower Upper

91 100

92 34.5 26.5 79.5

134 0.0 12.4 37.2#

