

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052019\
 Data File : VX009726.D
 Acq On : 20 May 2019 15:16
 Operator : JC/SP
 Sample : K2952-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-GW-718-720

Quant Time: May 21 07:41:26 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	5.67	168	178813	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	282057	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244179	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	95916	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	117891	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	
35) Dibromofluoromethane	5.50	113	87026	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
50) Toluene-d8	8.71	98	357311	49.91	ug/l	0.00
Spiked Amount			Recovery	=	99.82%	
62) 4-Bromofluorobenzene	11.13	95	110998	42.67	ug/l	0.00
Spiked Amount			Recovery	=	85.34%	

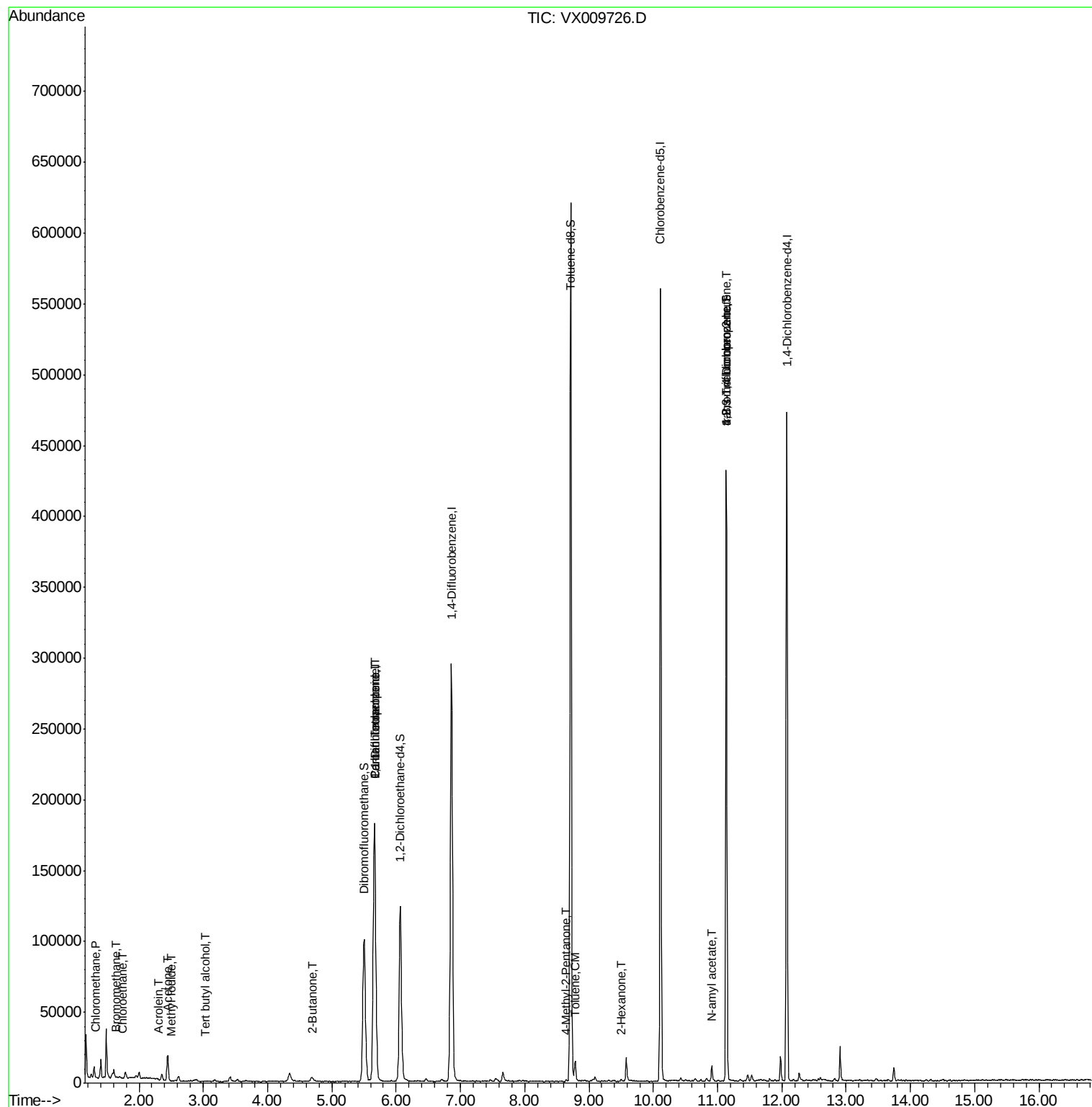
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	721	0.320	ug/l	95
5) Bromomethane	1.64	94	273	0.207	ug/l #	54
6) Chloroethane	1.73	64	484	0.344	ug/l #	38
10) Methyl Iodide	2.51	142	115	4.648	ug/l #	88
11) Tert butyl alcohol	3.04	59	519	0.919	ug/l #	73
13) Acrolein	2.29	56	361	0.705	ug/l	87
16) Acetone	2.45	43	19698	15.028	ug/l	100
25) 2-Butanone	4.69	43	5507	2.704	ug/l	95
28) Bromochloromethane	5.01	49	20	Below Cal	#	20
36) 1,1-Dichloropropene	5.66	75	13659	5.211	ug/l #	42
38) Carbon Tetrachloride	5.67	117	16537	6.944	ug/l #	16
51) 4-Methyl-2-Pentanone	8.64	43	947	0.248	ug/l #	59
52) Toluene	8.79	92	4720	0.957	ug/l	98
59) 2-Hexanone	9.50	43	885	0.295	ug/l	82
74) N-amyl acetate	10.91	43	1891	0.465	ug/l #	26
76) 1,2,3-Trichloropropane	11.13	75	57215	25.716	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	57215	65.797	ug/l #	10

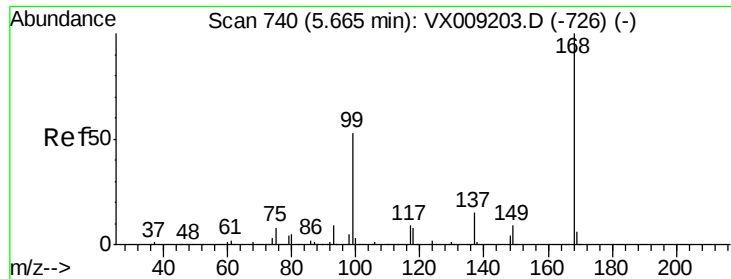
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009726.D

Acq: 20 May 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

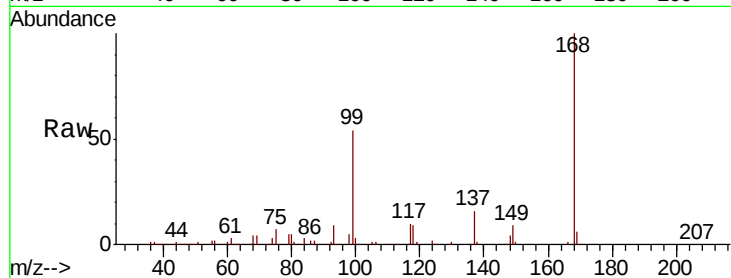
BP-VPB202-GW-718-720

Tot Ion:168 Resp: 178813

Ion Ratio Lower Upper

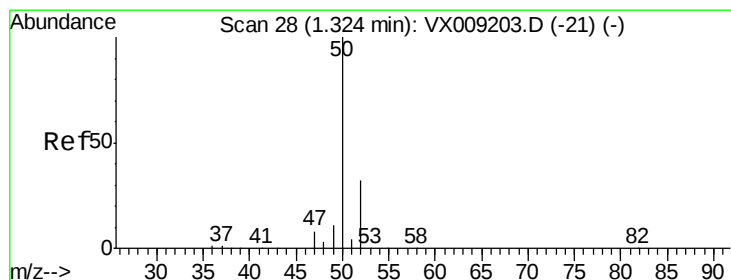
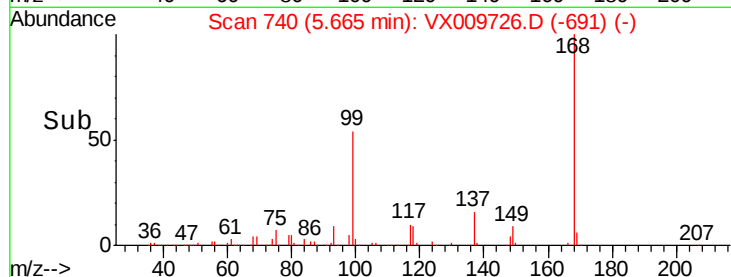
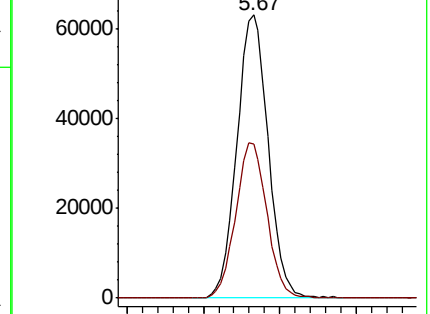
168 100

99 54.3 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: 0.320 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009726.D

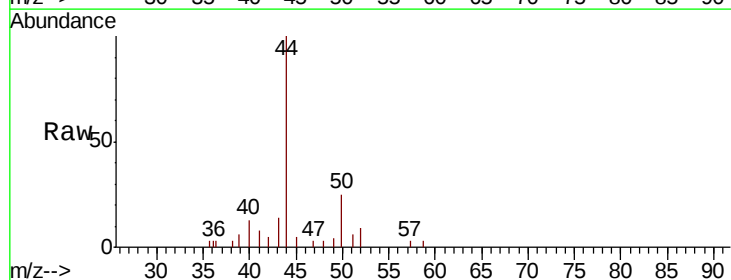
Acq: 20 May 2019 15:16

Tgt Ion: 50 Resp: 721

Ion Ratio Lower Upper

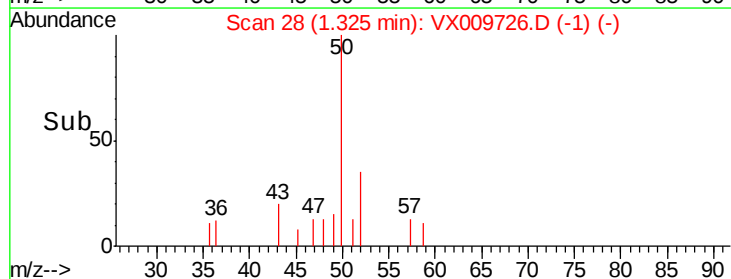
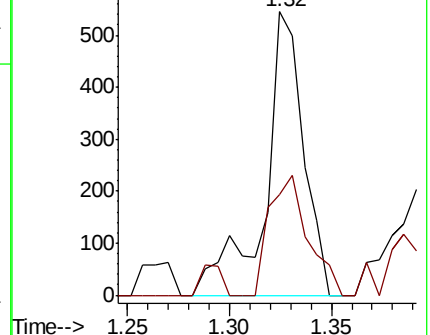
50 100

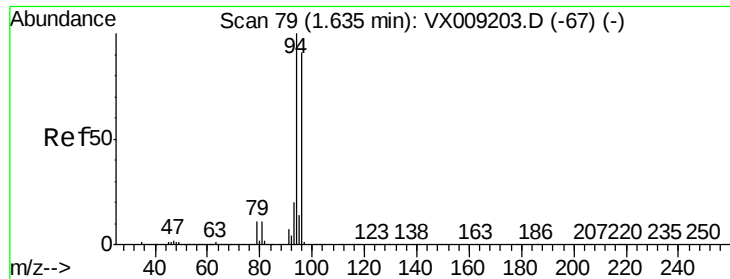
52 35.4 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.207 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009726.D

Acq: 20 May 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

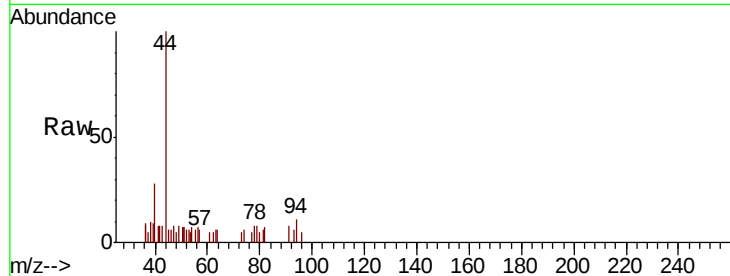
BP-VPB202-GW-718-720

Tot Ion: 94 Resp: 273

Ion Ratio Lower Upper

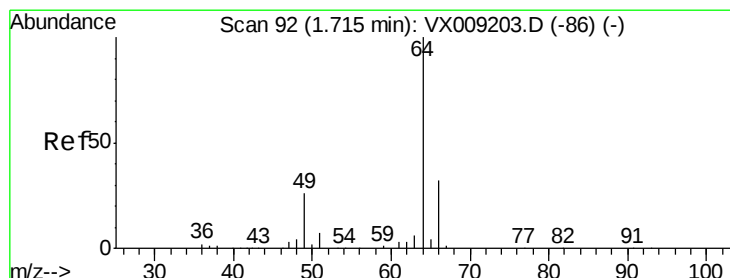
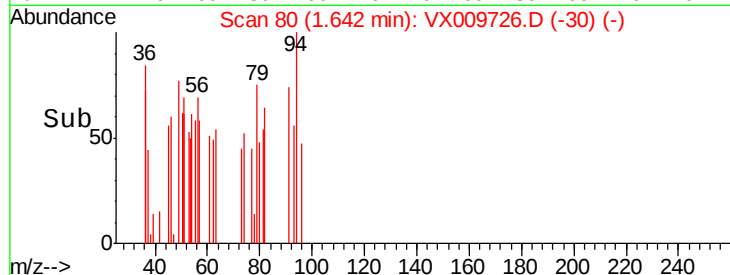
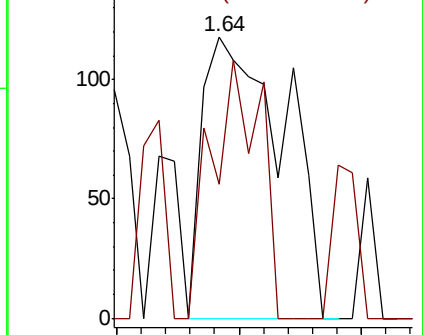
94 100

96 47.5 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: 0.344 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX009726.D

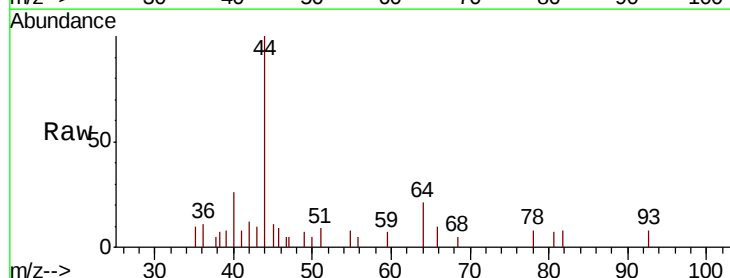
Acq: 20 May 2019 15:16

Tgt Ion: 64 Resp: 484

Ion Ratio Lower Upper

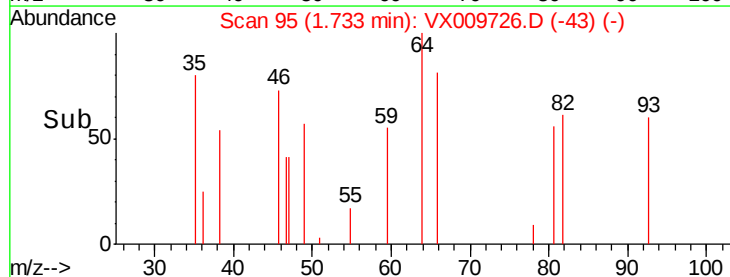
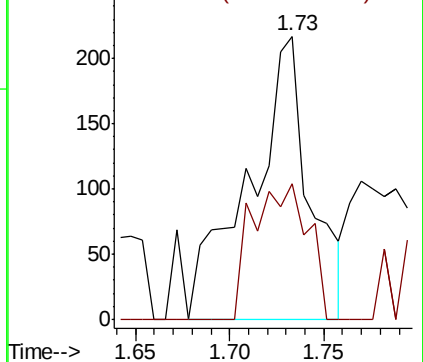
64 100

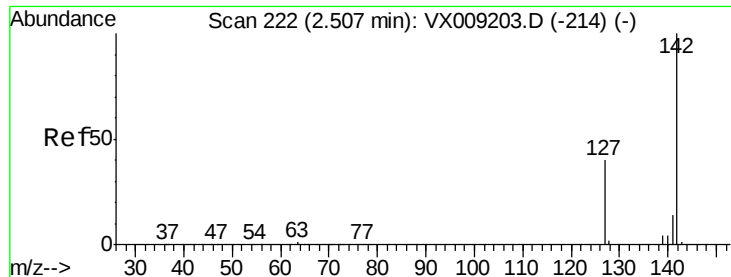
66 65.8 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

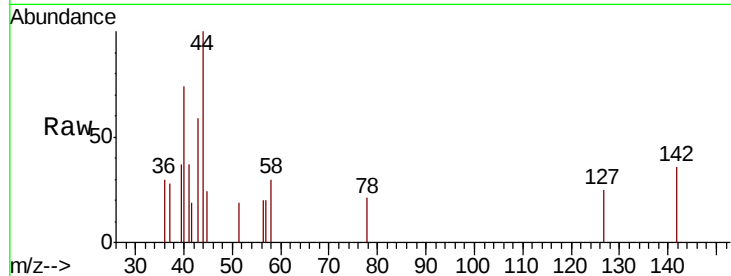




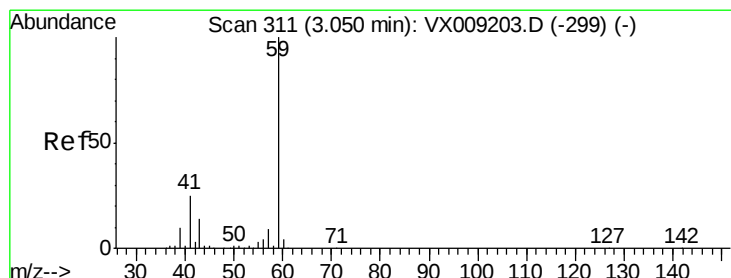
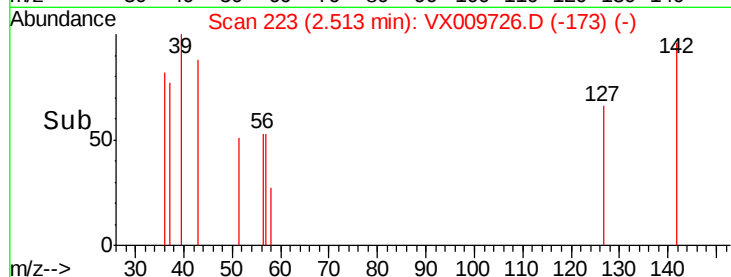
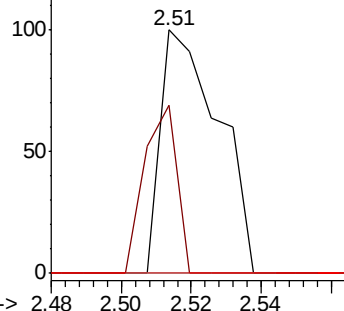
#10
Methyl Iodide
Concen: 4.648 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009726.D
Acq: 20 May 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-GW-718-720

Tot Ion:142 Resp: 115
Ion Ratio Lower Upper
142 100
127 38.3 32.7 49.1
141 0.0 11.5 17.3#

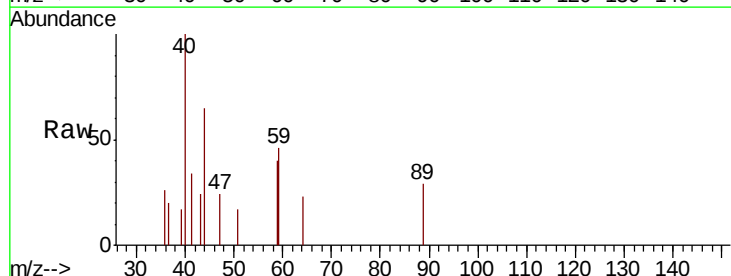


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

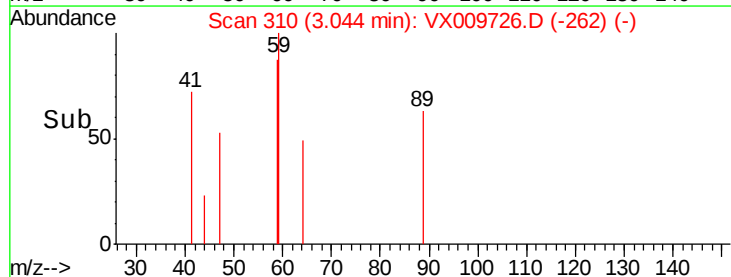
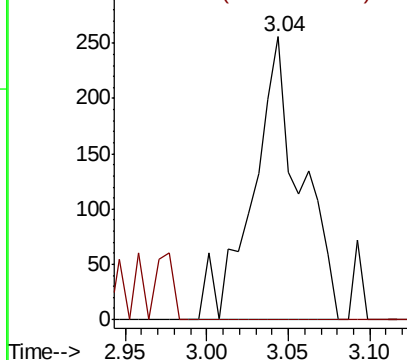


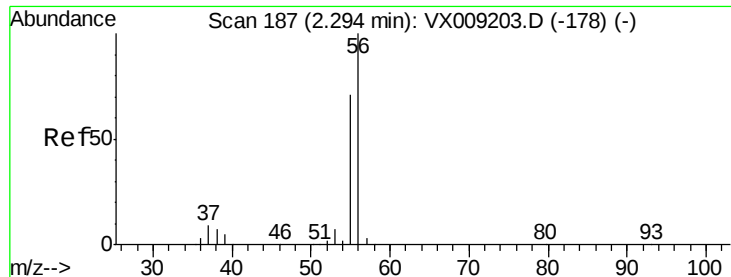
#11
Tert butyl alcohol
Concen: 0.919 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX009726.D
Acq: 20 May 2019 15:16

Tgt Ion: 59 Resp: 519
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



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





#13

Acrolein

Concen: 0.705 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX009726.D

Acq: 20 May 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

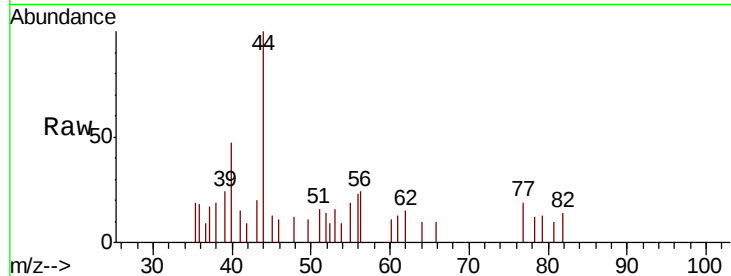
BP-VPB202-GW-718-720

Tot Ion: 56 Resp: 361

Ion Ratio Lower Upper

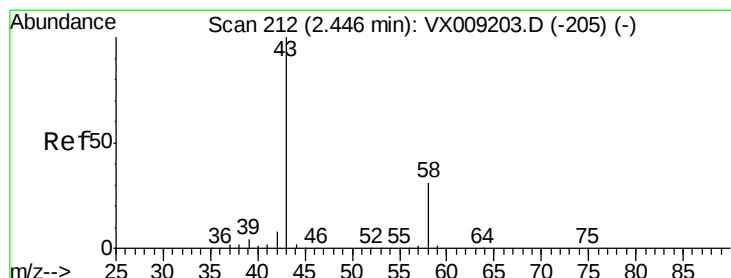
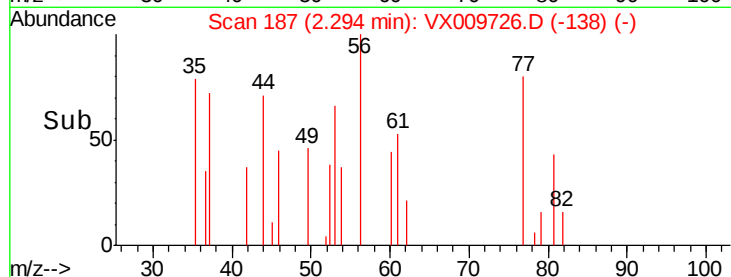
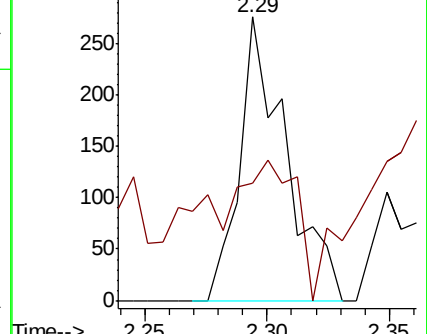
56 100

55 60.4 56.6 85.0



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 15.028 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009726.D

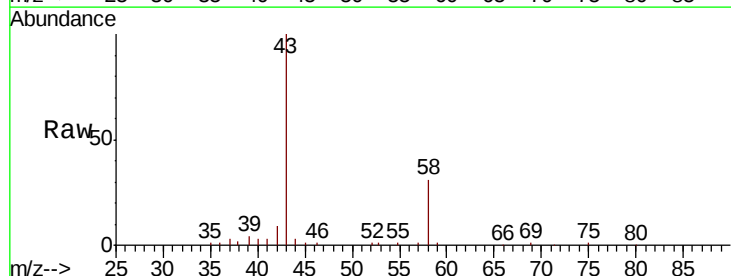
Acq: 20 May 2019 15:16

Tgt Ion: 43 Resp: 19698

Ion Ratio Lower Upper

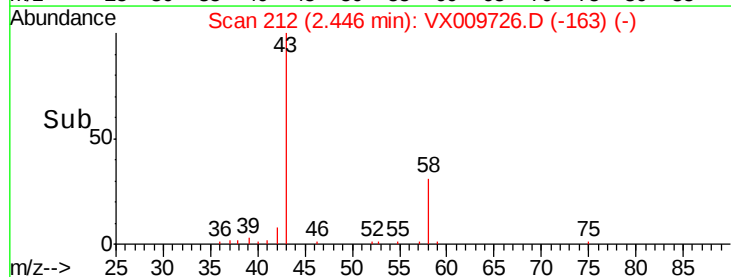
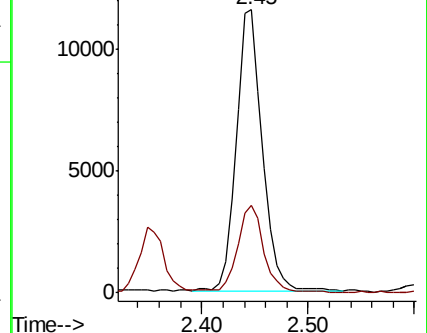
43 100

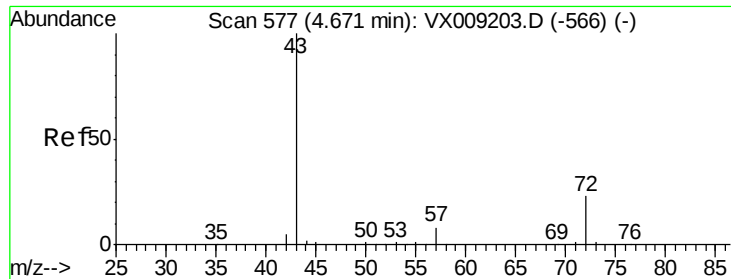
58 31.2 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#25

2-Butanone

Concen: 2.704 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009726.D

Acq: 20 May 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

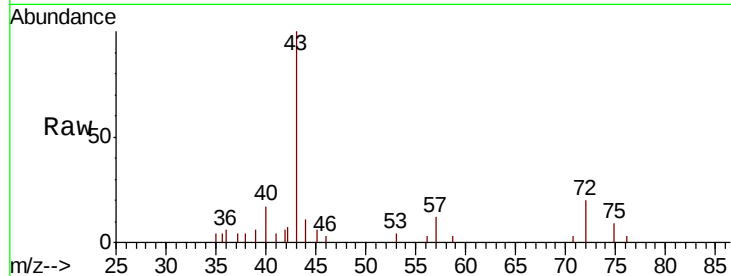
BP-VPB202-GW-718-720

Tot Ion: 43 Resp: 5507

Ion Ratio Lower Upper

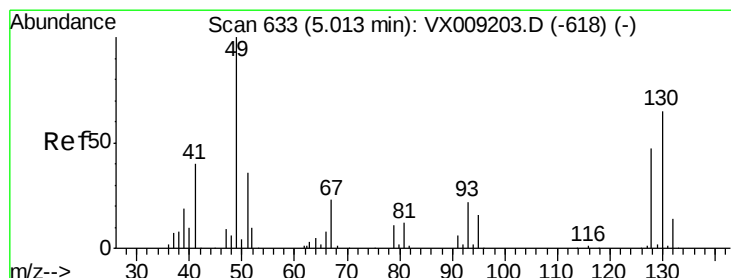
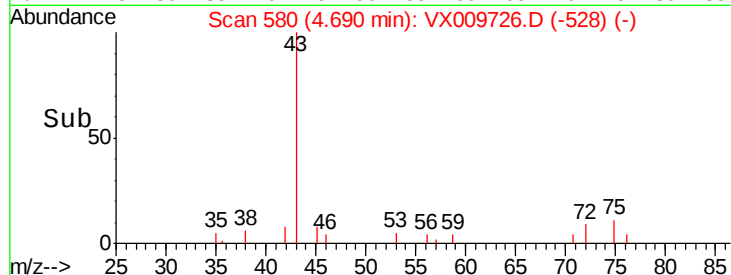
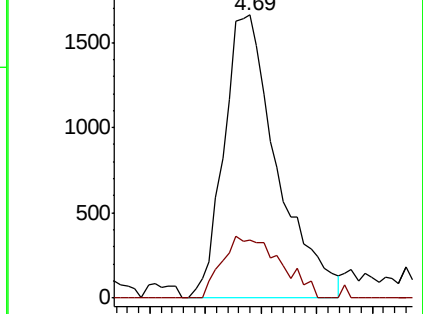
43 100

72 20.3 18.2 27.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. 0.00 min

Lab File: VX009726.D

Acq: 20 May 2019 15:16

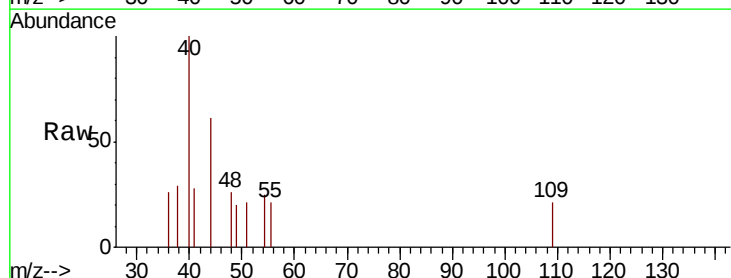
Tgt Ion: 49 Resp: 20

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

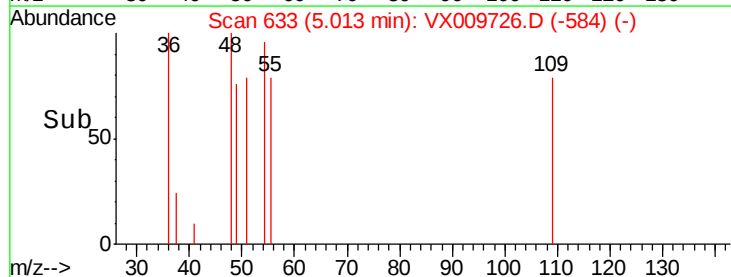
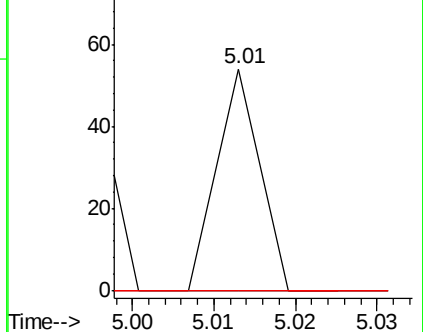
130 0.0 51.2 76.8#

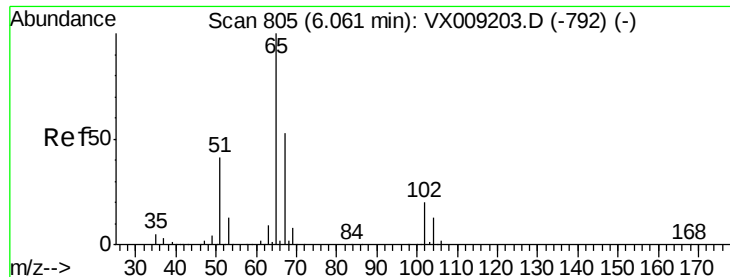


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#33

1,2-Dichloroethane-d4

Concen: 48.296 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009726.D

Acq: 20 May 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

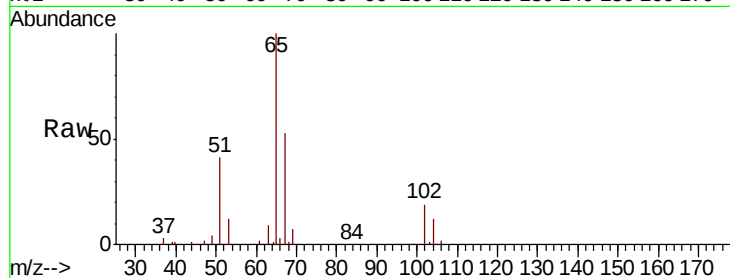
BP-VPB202-GW-718-720

Tot Ion: 65 Resp: 117891

Ion Ratio Lower Upper

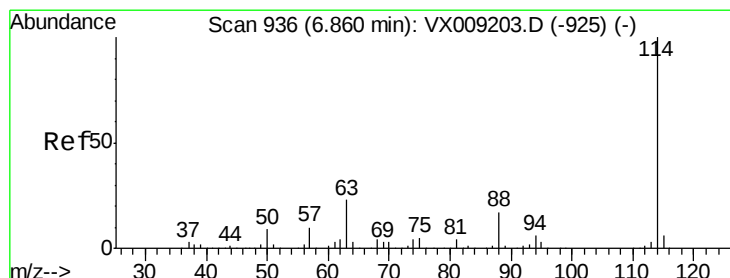
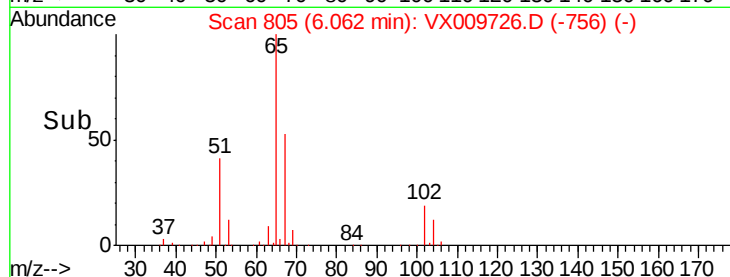
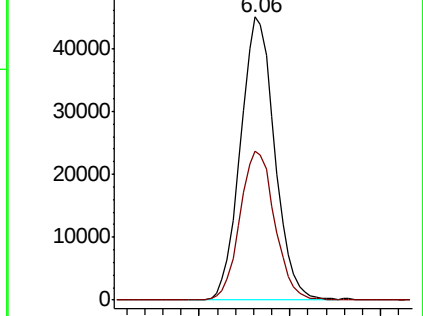
65 100

67 53.4 0.0 106.6



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: VX009726.D

Acq: 20 May 2019 15:16

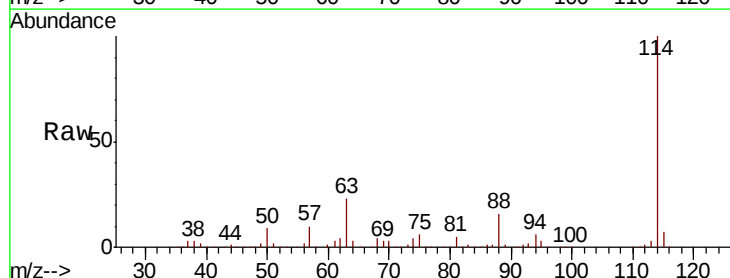
Tgt Ion: 114 Resp: 282057

Ion Ratio Lower Upper

114 100

63 23.0 0.0 45.6

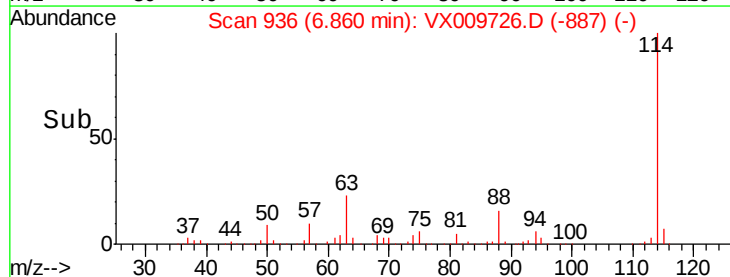
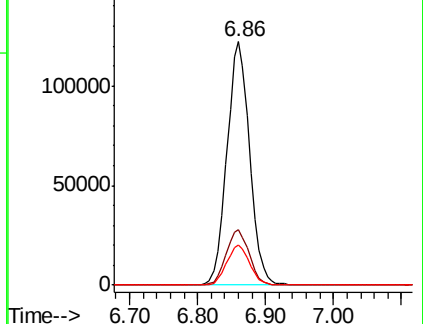
88 16.3 0.0 33.2

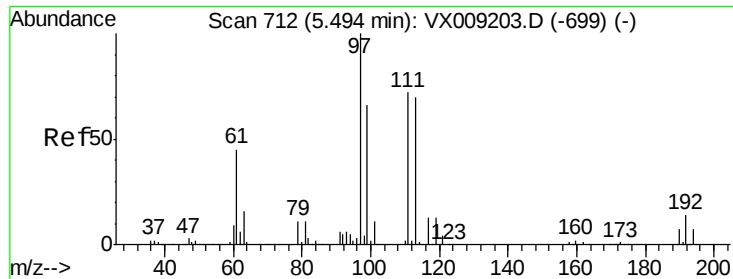


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

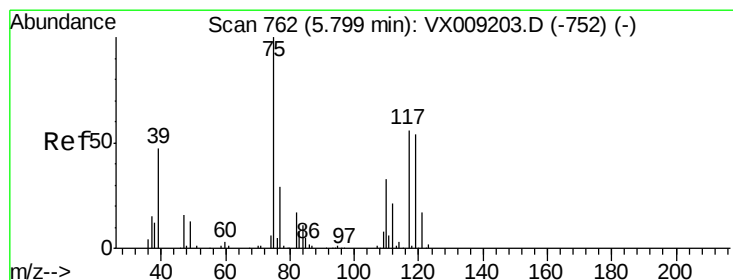
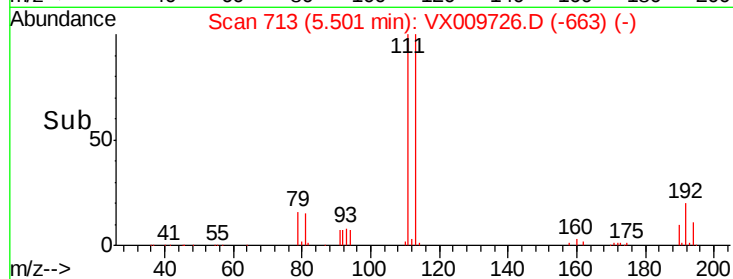
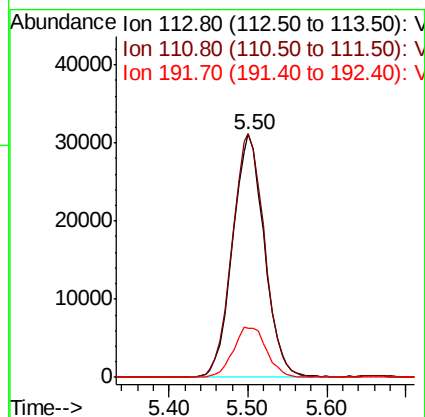
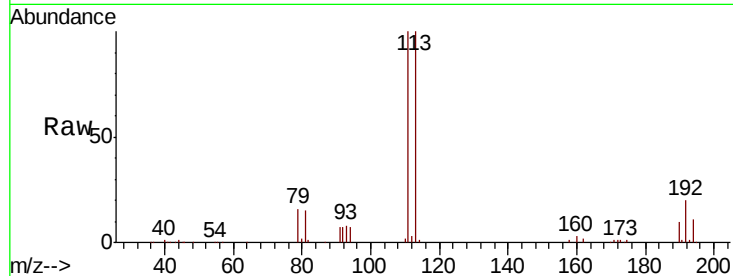




#35
 Dibromofluoromethane
 Concen: 49.081 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009726.D
 Acq: 20 May 2019 15:16

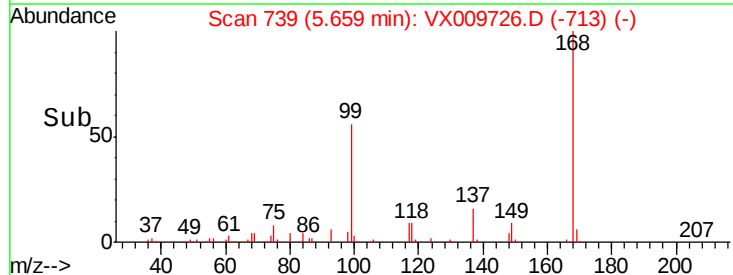
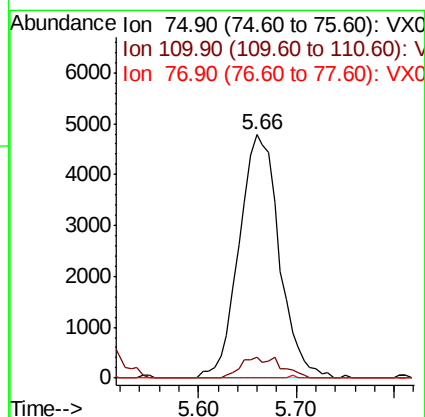
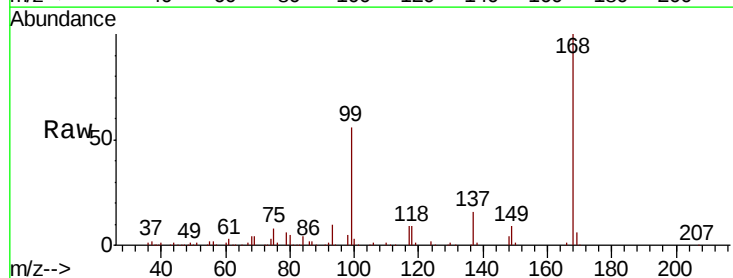
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-GW-718-720

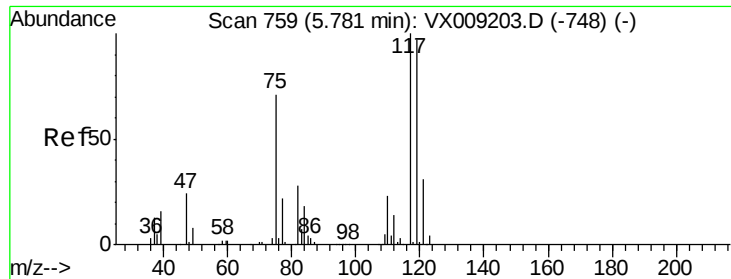
Tot Ion:113 Resp: 87026
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.8 124.2
 192 21.5 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.211 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009726.D
 Acq: 20 May 2019 15:16

Tgt Ion: 75 Resp: 13659
 Ion Ratio Lower Upper
 75 100
 110 0.0 16.9 50.6#
 77 0.0 24.8 37.2#

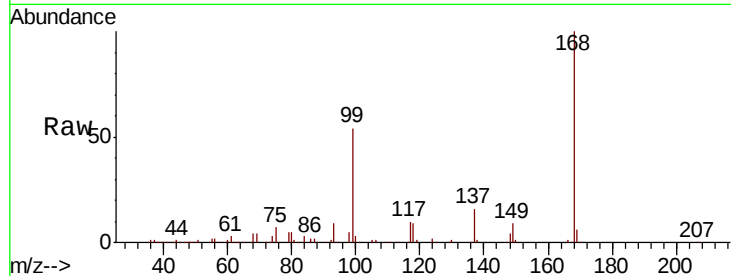




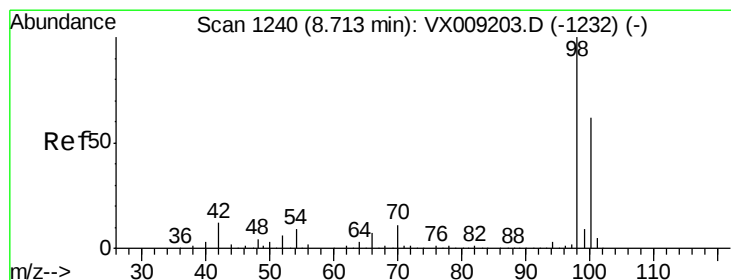
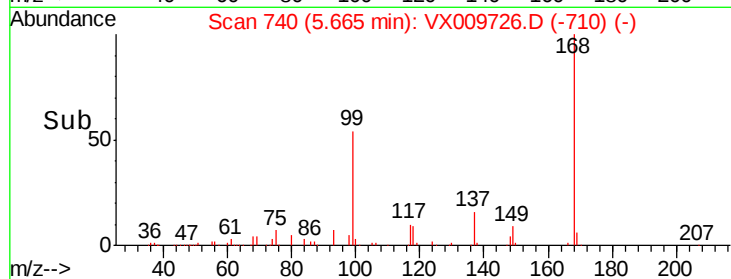
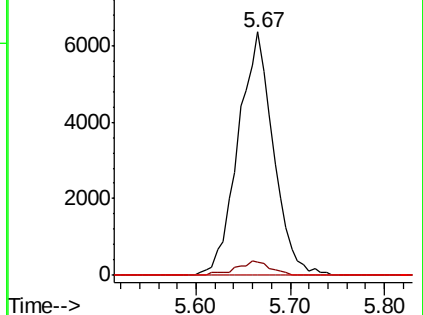
#38
Carbon Tetrachloride
Concen: 6.944 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX009726.D
Acq: 20 May 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-GW-718-720

Tot Ion:117 Resp: 16537
Ion Ratio Lower Upper
117 100
119 5.2 77.5 116.3#
121 0.0 24.7 37.1#

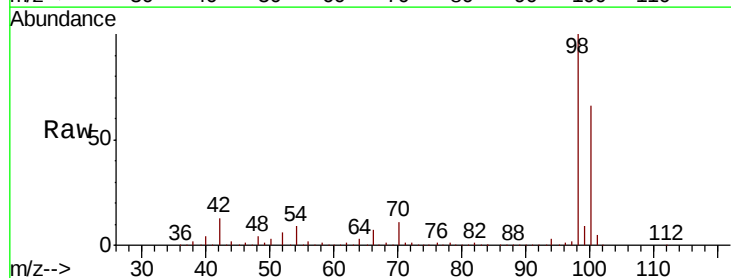


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

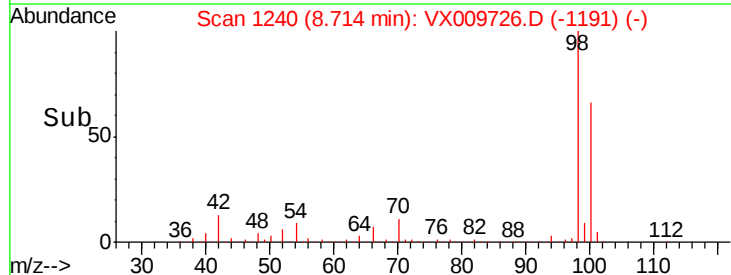
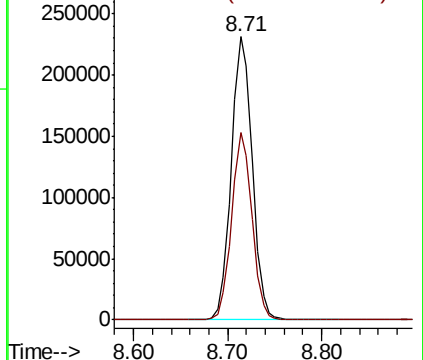


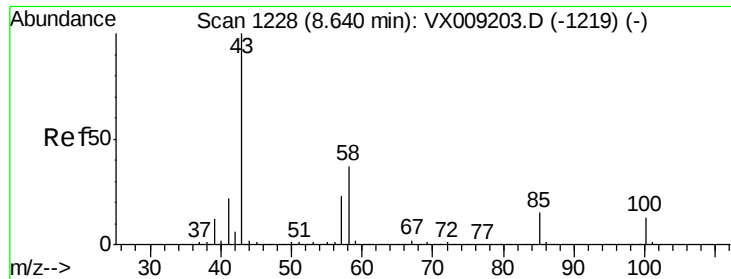
#50
Toluene-d8
Concen: 49.914 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX009726.D
Acq: 20 May 2019 15:16

Tgt Ion: 98 Resp: 357311
Ion Ratio Lower Upper
98 100
100 64.3 51.2 76.8



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





#51

4-Methyl-2-Pentanone

Concen: 0.248 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VX009726.D

Acq: 20 May 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

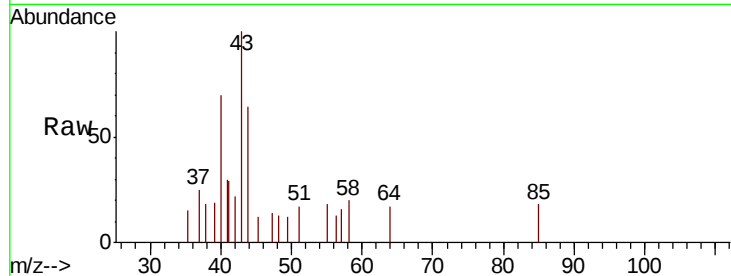
BP-VPB202-GW-718-720

Tot Ion: 43 Resp: 947

Ion Ratio Lower Upper

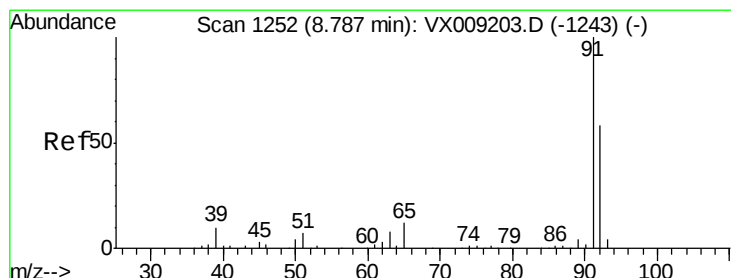
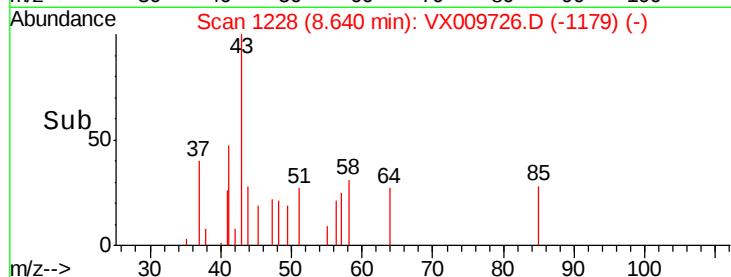
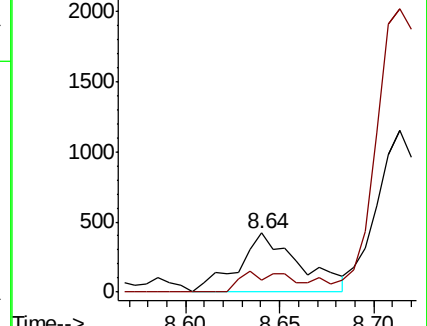
43 100

58 12.7 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 0.957 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX009726.D

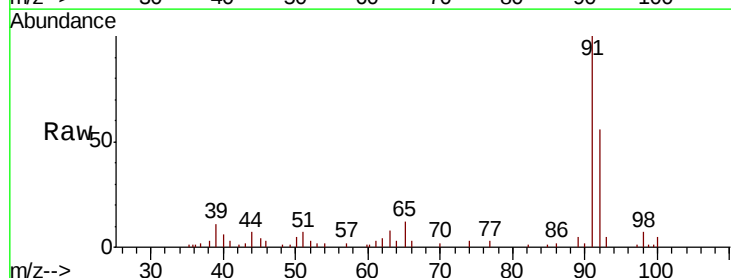
Acq: 20 May 2019 15:16

Tgt Ion: 92 Resp: 4720

Ion Ratio Lower Upper

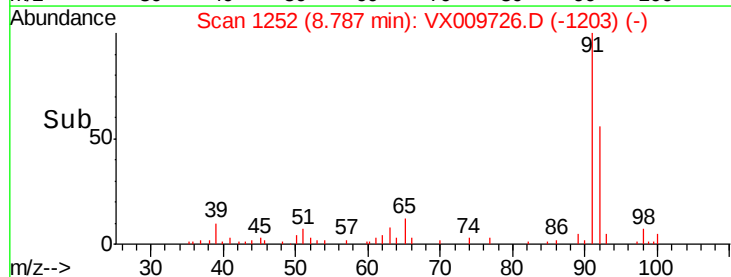
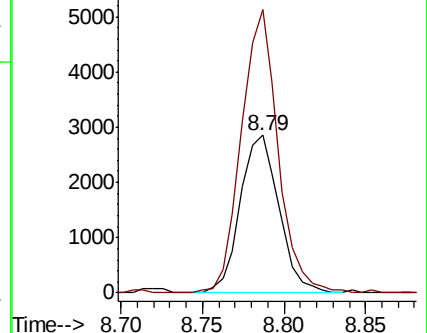
92 100

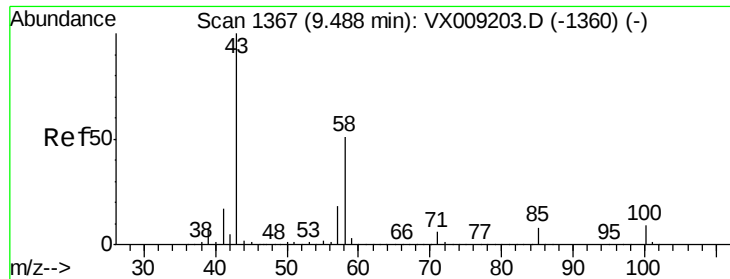
91 170.7 138.8 208.2



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

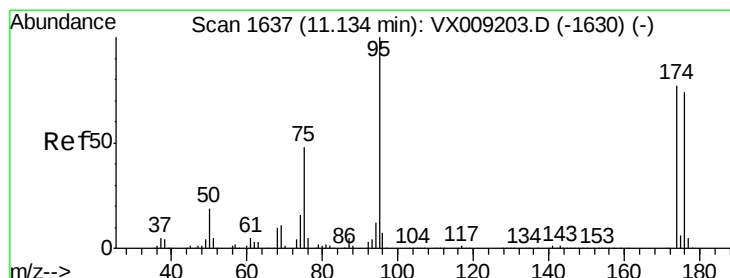
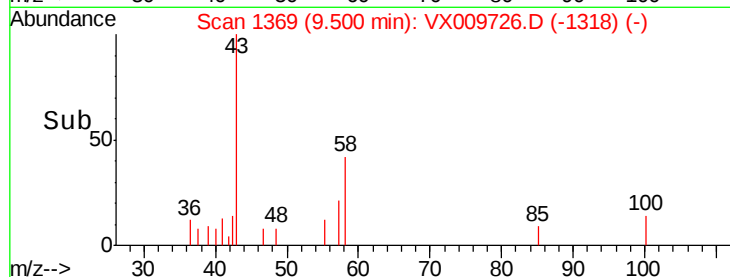
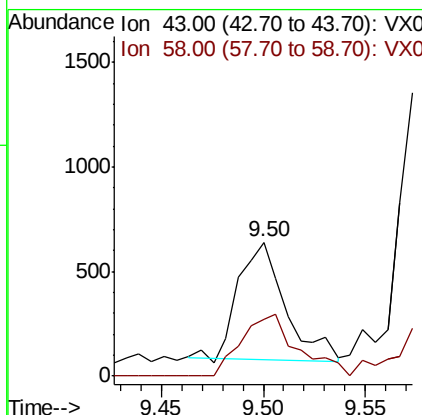
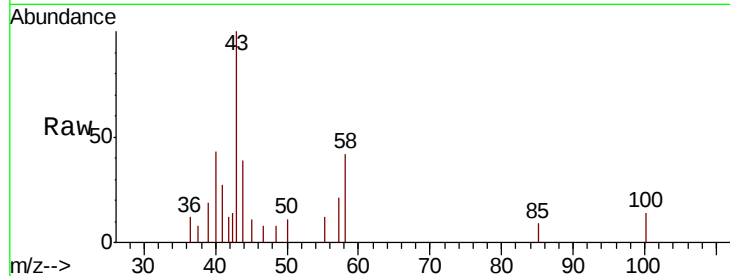




#59
2-Hexanone
Concen: 0.295 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. 0.01 min
Lab File: VX009726.D
Acq: 20 May 2019 15:16

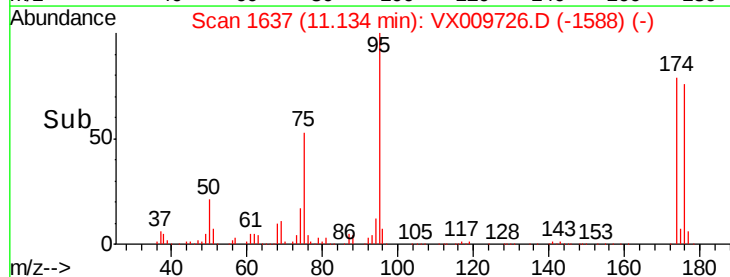
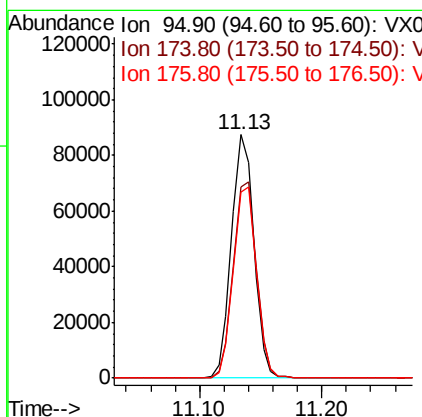
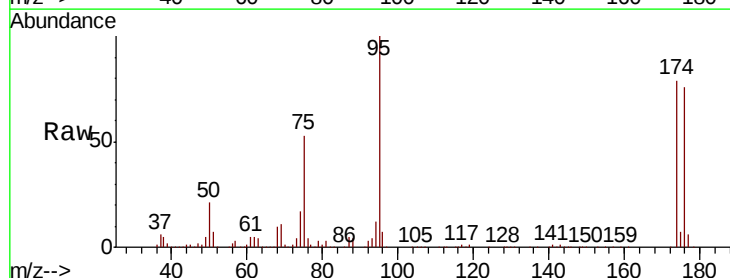
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-GW-718-720

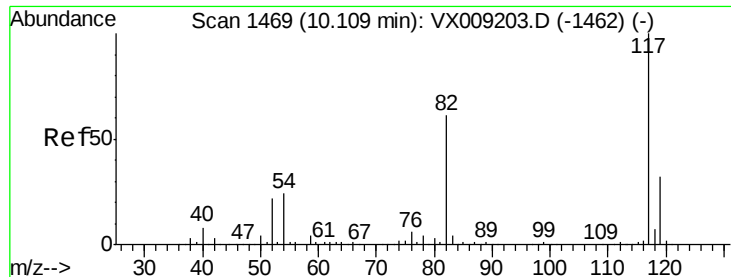
Tot Ion: 43 Resp: 885
Ion Ratio Lower Upper
43 100
58 64.2 25.9 77.7



#62
4-Bromofluorobenzene
Concen: 42.673 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX009726.D
Acq: 20 May 2019 15:16

Tgt Ion: 95 Resp: 110998
Ion Ratio Lower Upper
95 100
174 83.4 0.0 161.6
176 81.1 0.0 159.2

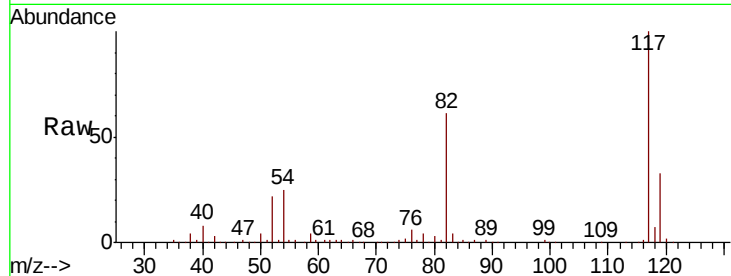




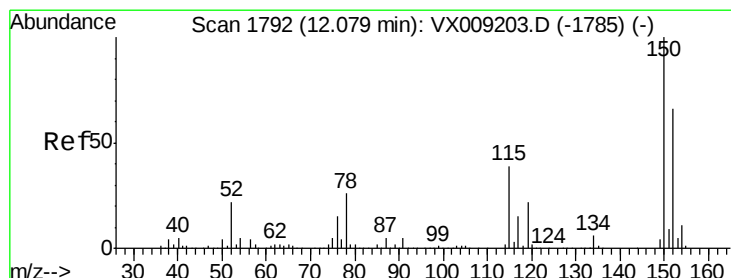
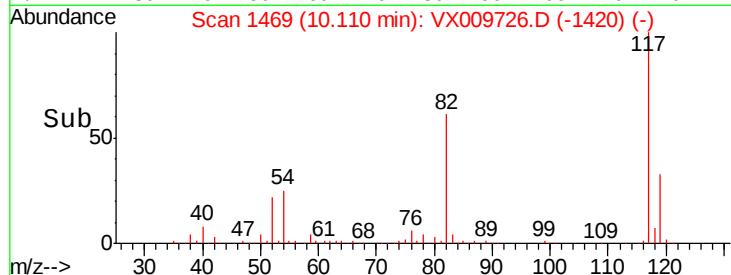
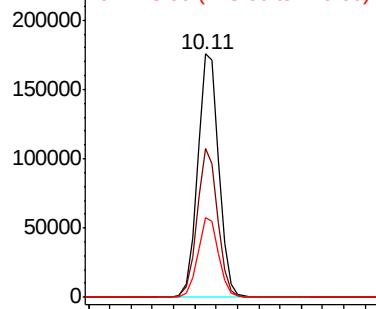
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009726.D
Acq: 20 May 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-GW-718-720

Tot Ion:117 Resp: 244179
Ion Ratio Lower Upper
117 100
82 61.0 48.8 73.2
119 32.6 25.8 38.6

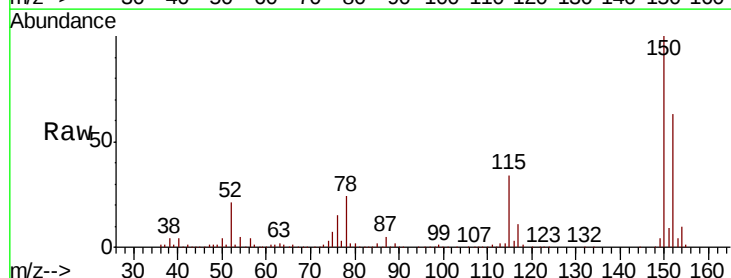


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

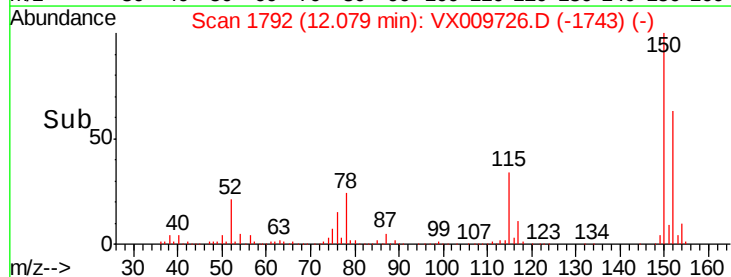
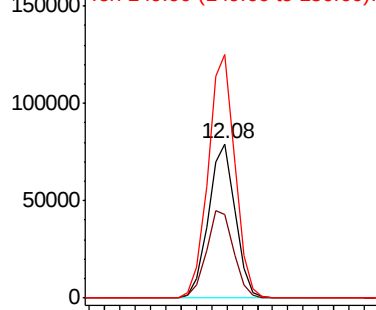


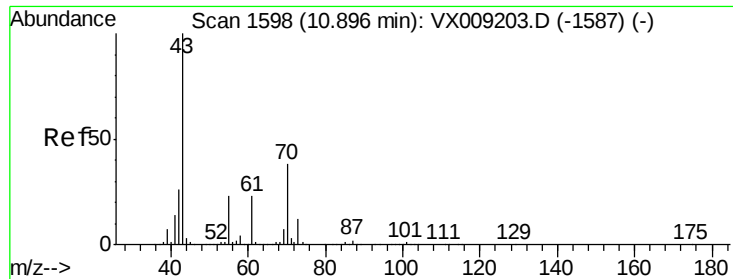
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009726.D
Acq: 20 May 2019 15:16

Tgt Ion:152 Resp: 95916
Ion Ratio Lower Upper
152 100
115 58.2 41.2 123.6
150 158.0 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





#74

N-amvl acetate

Concen: 0.465 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX009726.D

Acq: 20 May 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-GW-718-720

Tot Ion: 43 Resp: 1891

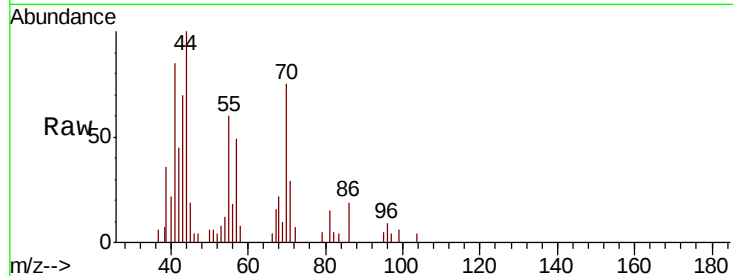
Ion Ratio Lower Upper

43 100

70 78.5 30.0 45.0#

55 75.3 17.9 26.9#

61 0.0 18.4 27.6#

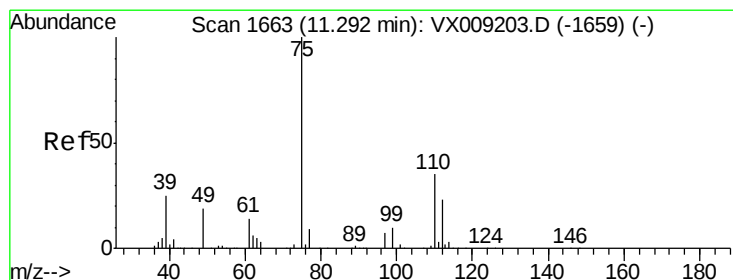
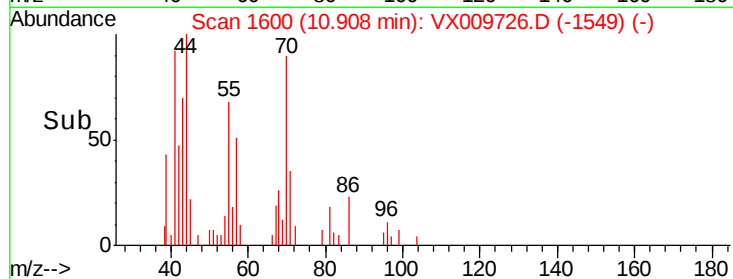
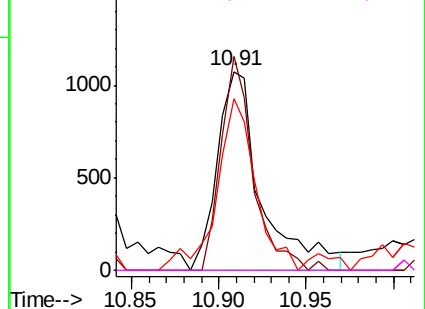


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 25.716 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009726.D

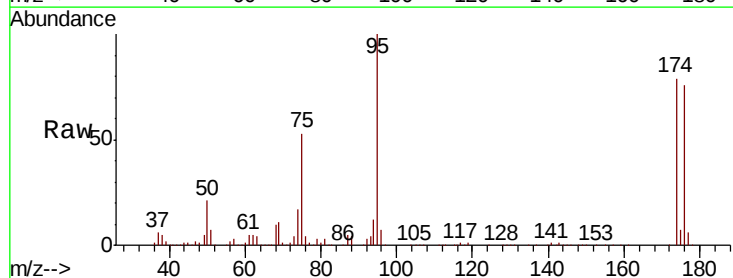
Acq: 20 May 2019 15:16

Tgt Ion: 75 Resp: 57215

Ion Ratio Lower Upper

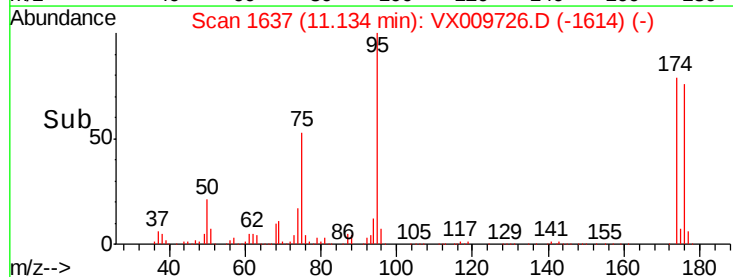
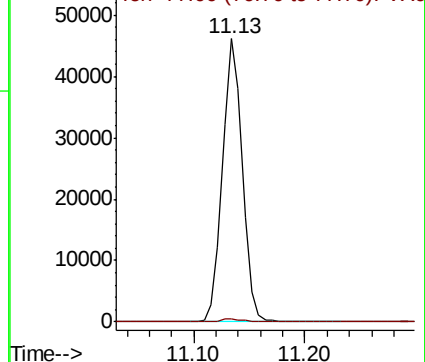
75 100

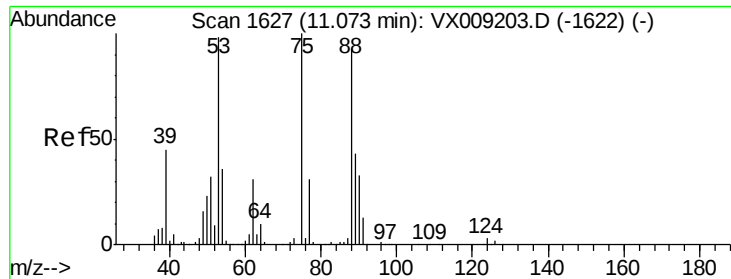
77 1.2 22.1 66.1#



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: 65.797 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009726.D

Acq: 20 May 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-GW-718-720

Tot Ion: 75 Resp: 57215

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#

