

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072619\
 Data File : VX011096.D
 Acq On : 26 Jul 2019 17:22
 Operator : JC/SP
 Sample : PB121723ZHE#02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#02

Quant Time: Jul 27 02:04:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	203865	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	328034	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	319051	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	150095	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	112167	51.72	ug/l	0.00
Spiked Amount			Recovery	=	103.44%	
35) Dibromofluoromethane	5.50	113	102876	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
50) Toluene-d8	8.71	98	403658	51.69	ug/l	0.00
Spiked Amount			Recovery	=	103.38%	
62) 4-Bromofluorobenzene	11.13	95	146622	51.08	ug/l	0.00
Spiked Amount			Recovery	=	102.16%	

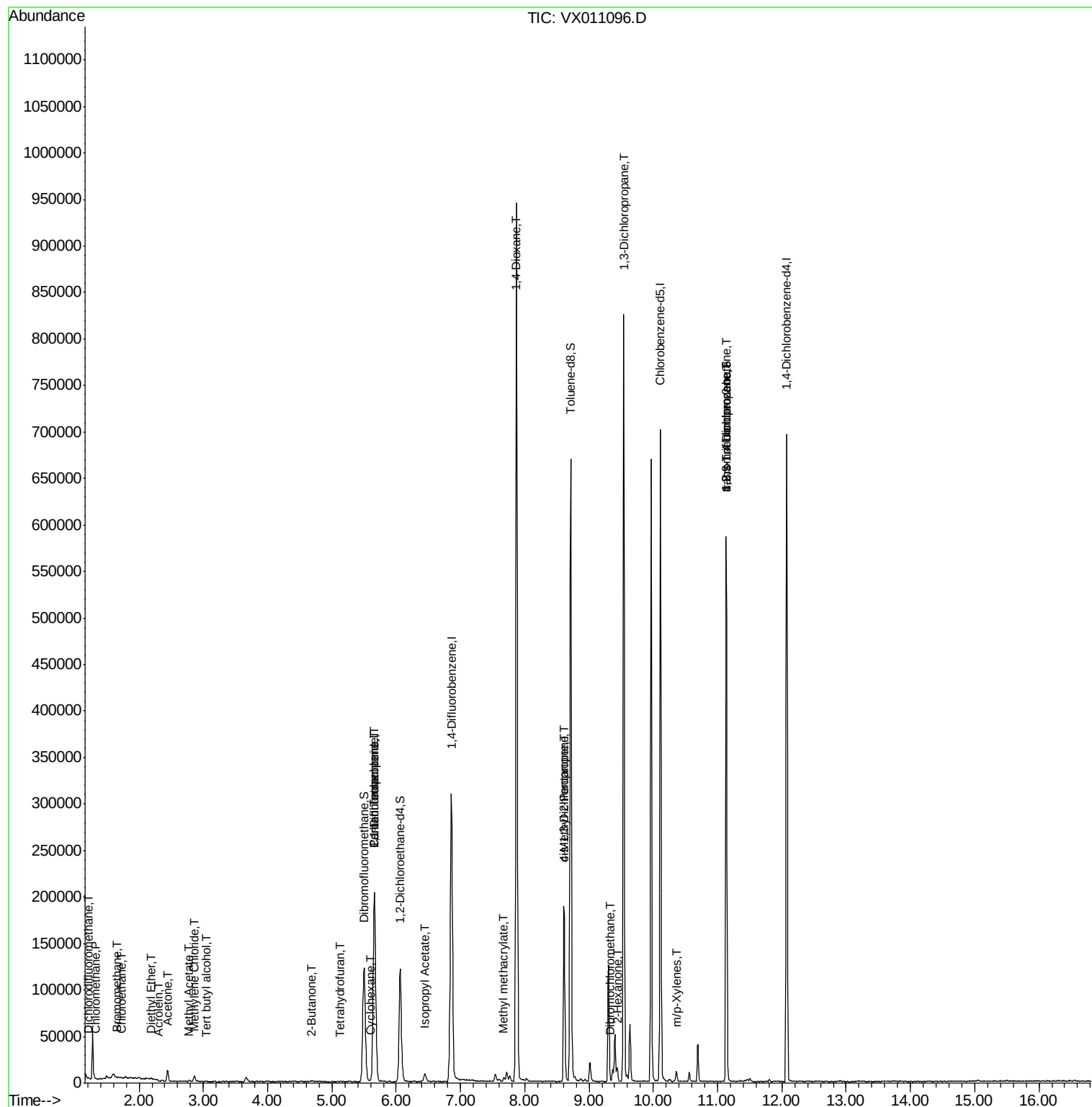
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	29	0.560	ug/l #	43
3) Chloromethane	1.32	50	538	0.287	ug/l	97
5) Bromomethane	1.65	94	356	0.330	ug/l #	64
6) Chloroethane	1.73	64	267	0.220	ug/l #	72
8) Diethyl Ether	2.20	74	284	0.255	ug/l #	51
11) Tert butyl alcohol	3.04	59	330	0.653	ug/l	96
13) Acrolein	2.29	56	107	0.367	ug/l #	15
16) Acetone	2.44	43	12684	12.949	ug/l	91
18) Methyl Acetate	2.78	43	1576	0.707	ug/l	94
20) Methylene Chloride	2.86	84	2792	1.345	ug/l #	93
25) 2-Butanone	4.68	43	1194	0.849	ug/l #	73
29) Tetrahydrofuran	5.12	42	210	0.236	ug/l #	45
31) Cyclohexane	5.59	56	635	0.216	ug/l #	81
36) 1,1-Dichloropropene	5.66	75	13830	5.133	ug/l #	48
38) Carbon Tetrachloride	5.67	117	19326	6.883	ug/l #	17
43) Isopropyl Acetate	6.45	43	11557	2.547	ug/l	98
48) Methyl methacrylate	7.68	41	4981	2.254	ug/l #	10
49) 1,4-Dioxane	7.88	88	208	3.365	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	60612	20.610	ug/l #	49
54) cis-1,3-Dichloropropene	8.61	75	30693	9.600	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	7714	2.178	ug/l #	44
59) 2-Hexanone	9.44	43	8626	3.782	ug/l #	23
60) Dibromochloromethane	9.34	129	22	2.536	ug/l #	11
68) m/p-Xylenes	10.36	106	2358	0.551	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	72203	26.658	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	72203	66.142	ug/l #	11

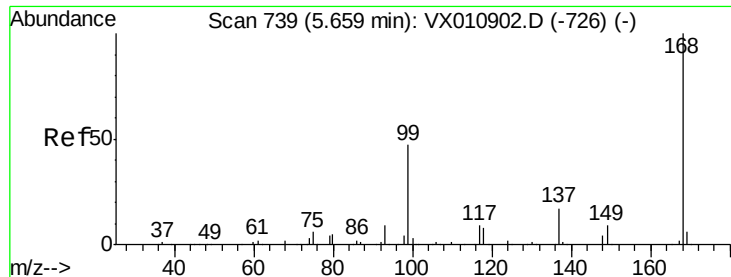
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 27 02:04:11 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX011096.D

Acq: 26 Jul 2019 17:22

Instrument :

MSVOA_X

ClientSampleId :

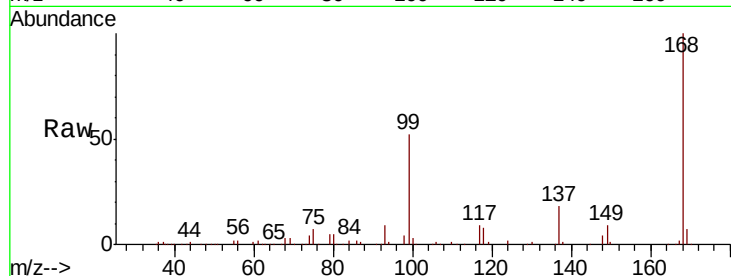
PB121723ZHE#02

Tot Ion:168 Resp: 203865

Ion Ratio Lower Upper

168 100

99 52.4 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

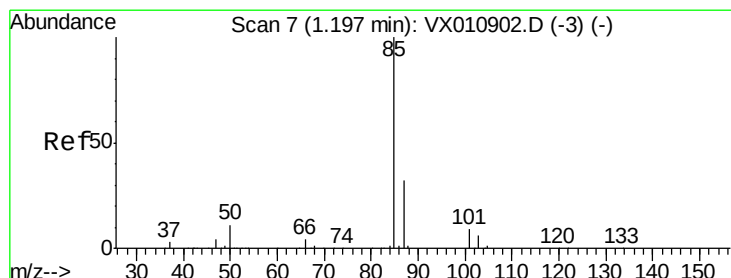
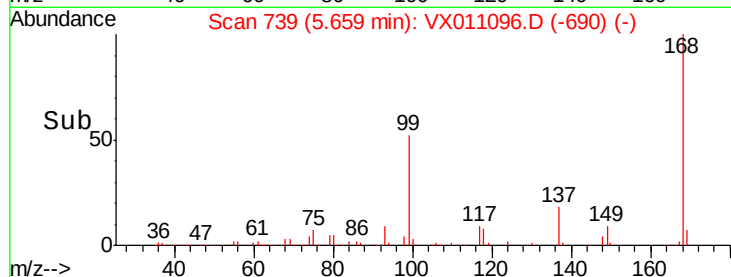
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.560 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.02 min

Lab File: VX011096.D

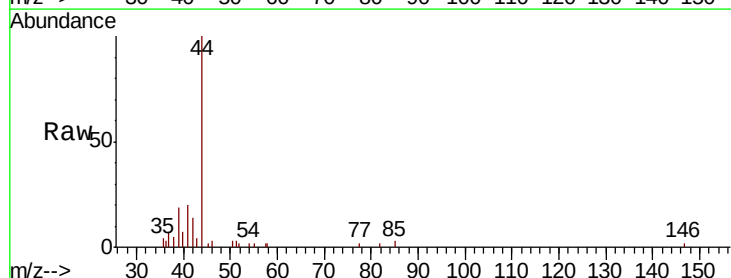
Acq: 26 Jul 2019 17:22

Tgt Ion: 85 Resp: 29

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.21

80

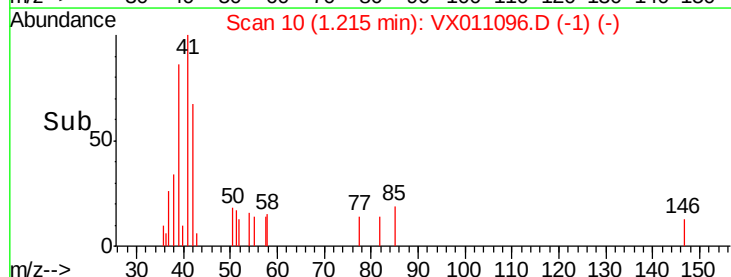
60

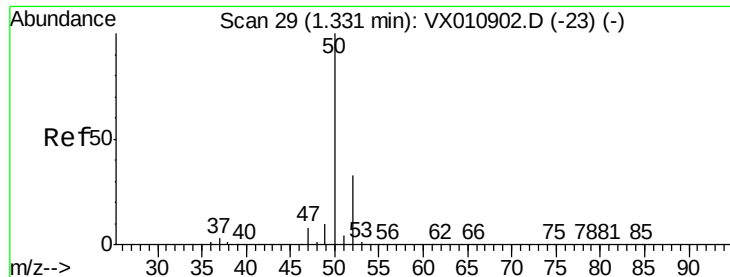
40

20

0

Time--> 1.20 1.21 1.22 1.23





#3

Chloromethane

Concen: 0.287 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX011096.D

Acq: 26 Jul 2019 17:22

Instrument :

MSVOA_X

ClientSampleId :

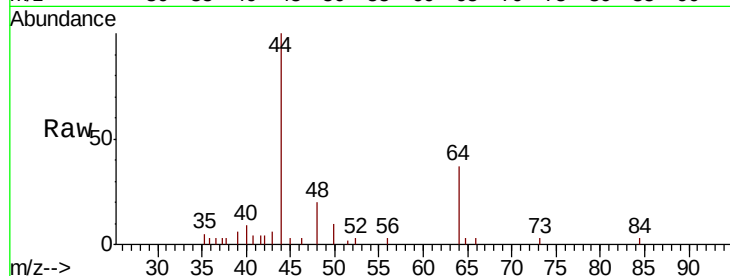
PB121723ZHE#02

Tot Ion: 50 Resp: 538

Ion Ratio Lower Upper

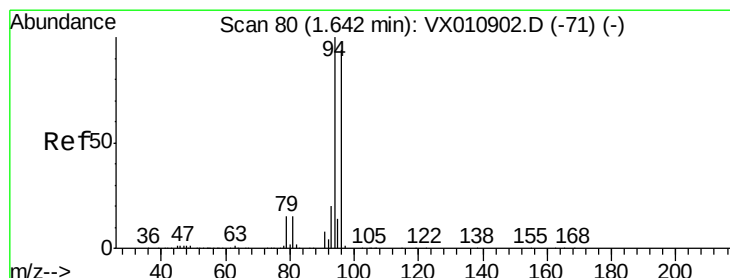
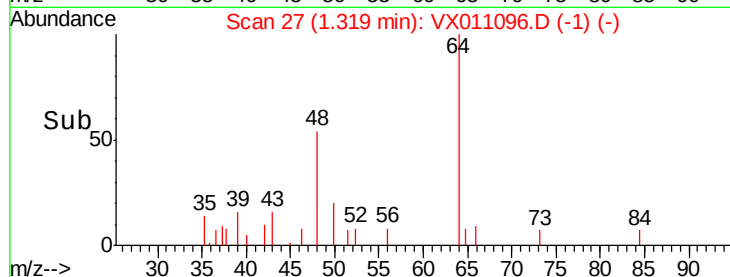
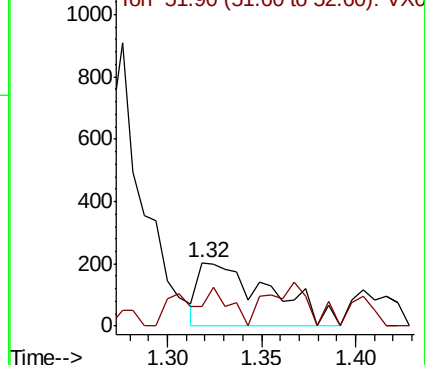
50 100

52 31.0 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.330 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX011096.D

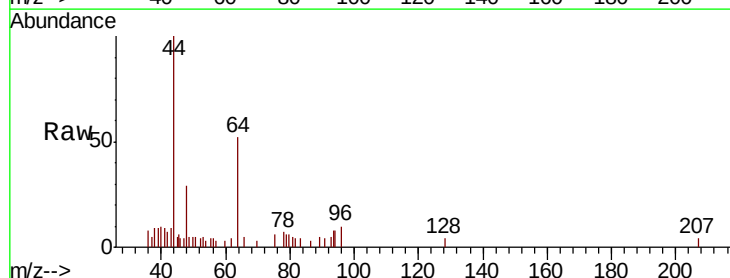
Acq: 26 Jul 2019 17:22

Tgt Ion: 94 Resp: 356

Ion Ratio Lower Upper

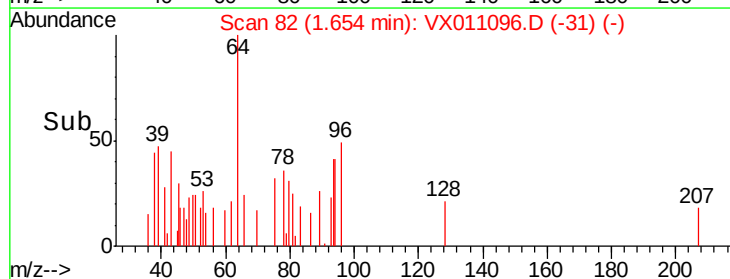
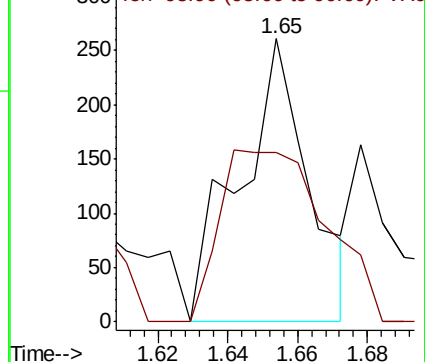
94 100

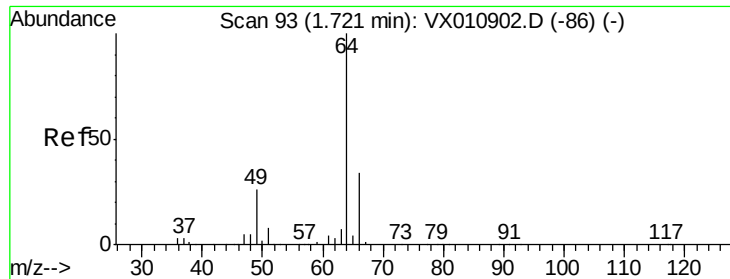
96 59.8 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.220 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX011096.D

Acq: 26 Jul 2019 17:22

Instrument :

MSVOA_X

ClientSampleId :

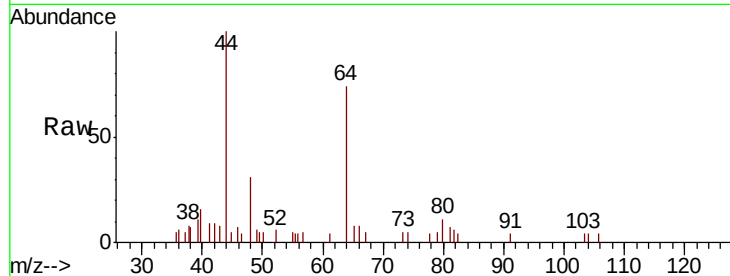
PB121723ZHE#02

Tot Ion: 64 Resp: 267

Ion Ratio Lower Upper

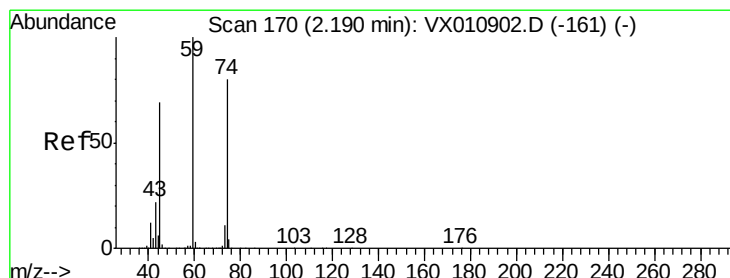
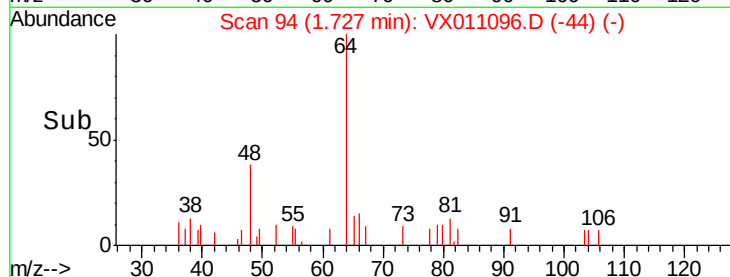
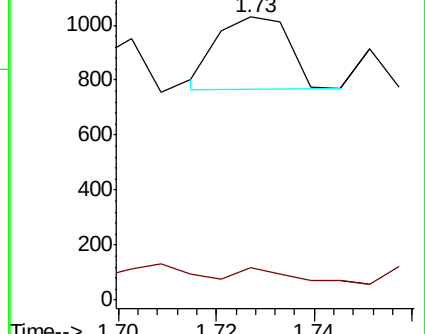
64 100

66 18.0 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: 0.255 ug/l

RT: 2.20 min Scan# 171

Delta R.T. 0.01 min

Lab File: VX011096.D

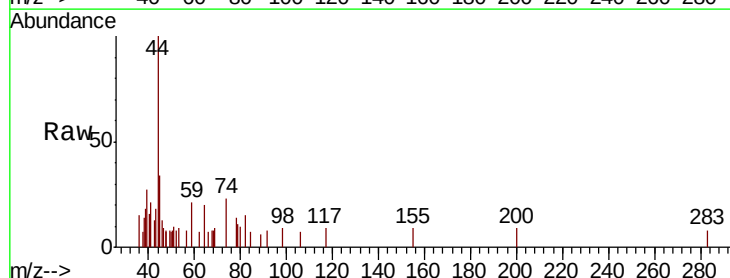
Acq: 26 Jul 2019 17:22

Tgt Ion: 74 Resp: 284

Ion Ratio Lower Upper

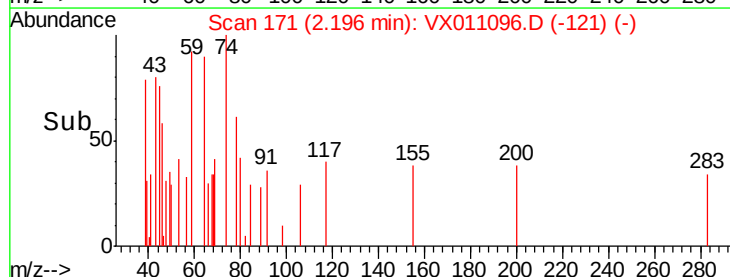
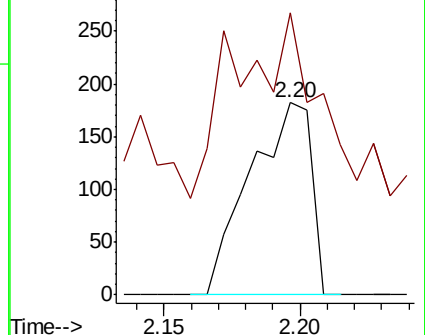
74 100

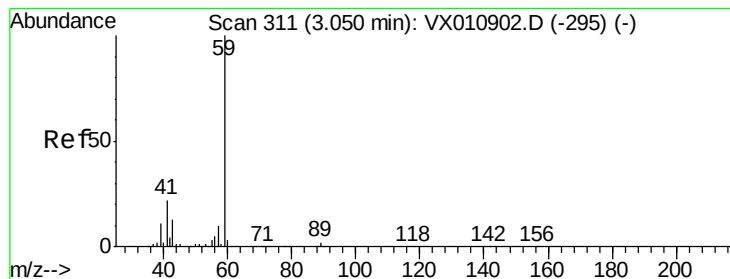
45 137.3 45.5 136.5#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#11

Tert butyl alcohol

Concen: 0.653 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX011096.D

Acq: 26 Jul 2019 17:22

Instrument :

MSVOA_X

ClientSampleId :

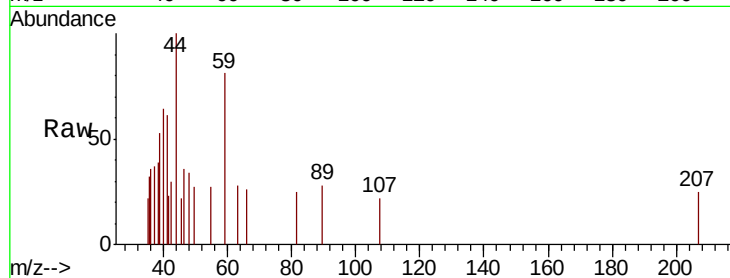
PB121723ZHE#02

Tot Ion: 59 Resp: 330

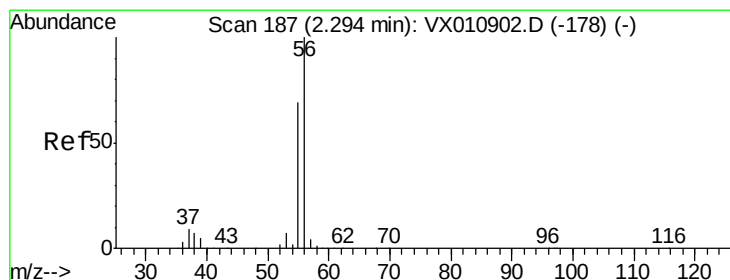
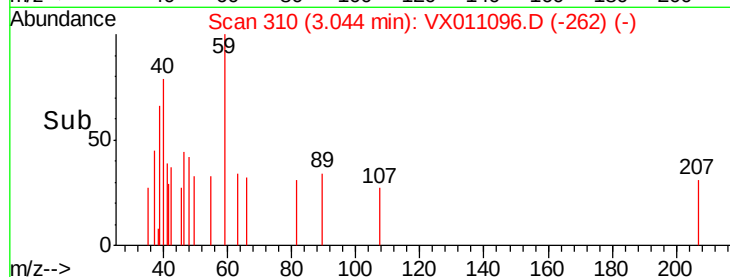
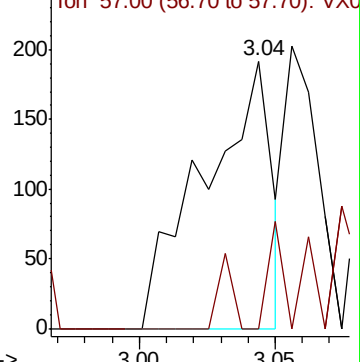
Ion Ratio Lower Upper

59 100

57 8.5 7.9 11.9



Abundance Ion 59.00 (58.70 to 59.70): VX0



#13

Acrolein

Concen: 0.367 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX011096.D

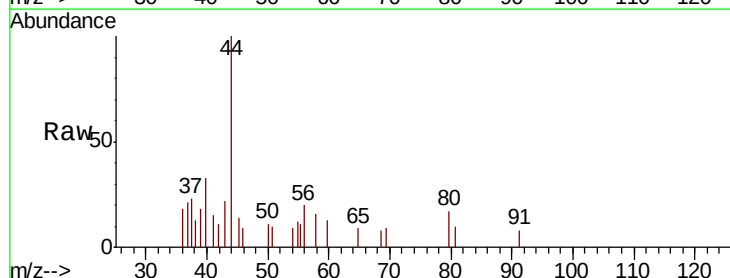
Acq: 26 Jul 2019 17:22

Tgt Ion: 56 Resp: 107

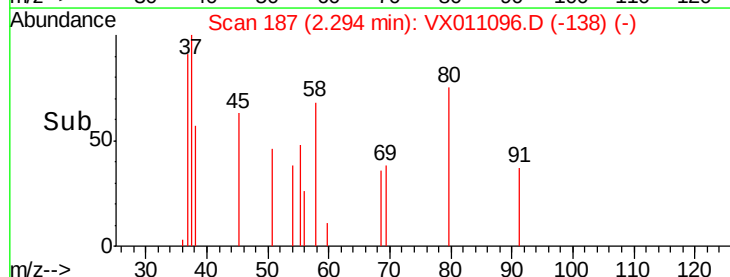
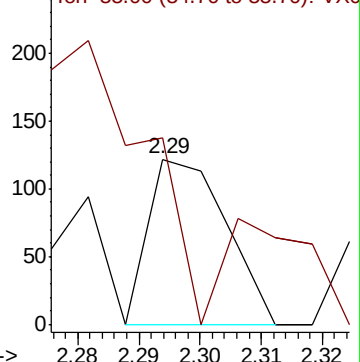
Ion Ratio Lower Upper

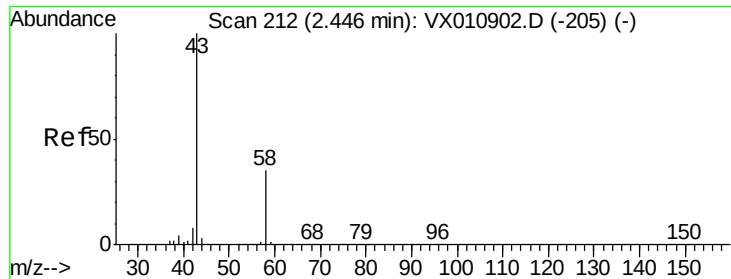
56 100

55 0.0 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0





#16

Acetone

Concen: 12.949 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011096.D

Acq: 26 Jul 2019 17:22

Instrument :

MSVOA_X

ClientSampleId :

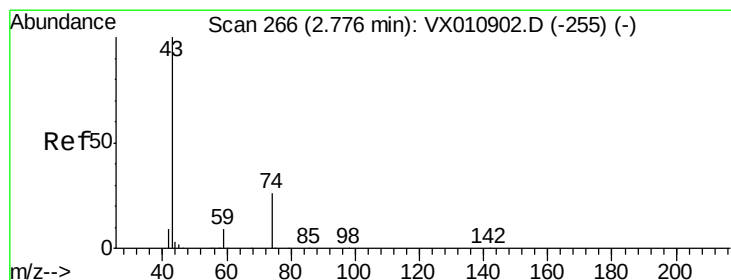
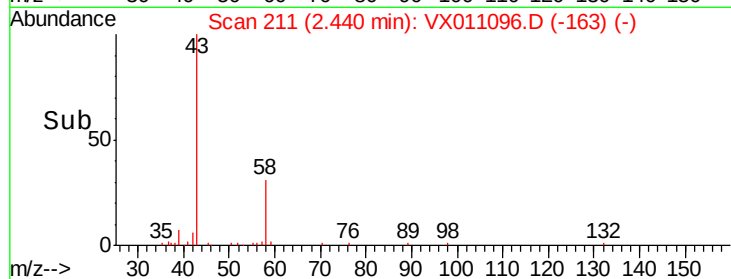
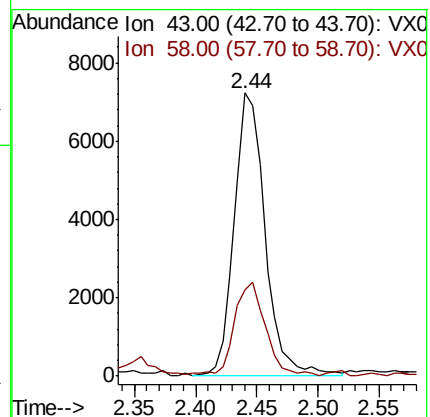
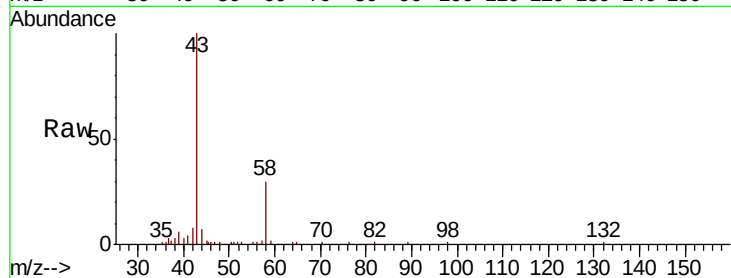
PB121723ZHE#02

Tot Ion: 43 Resp: 12684

Ion Ratio Lower Upper

43 100

58 29.5 27.7 41.5



#18

Methyl Acetate

Concen: 0.707 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX011096.D

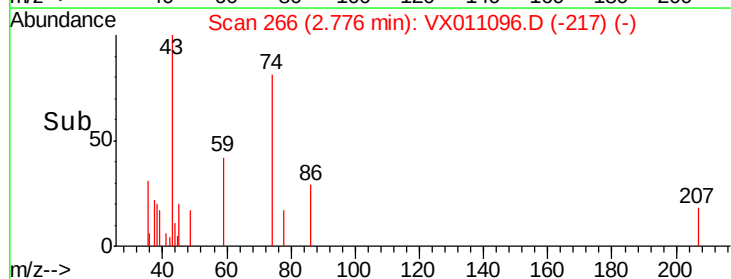
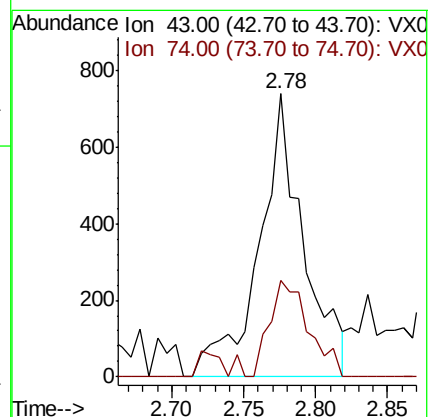
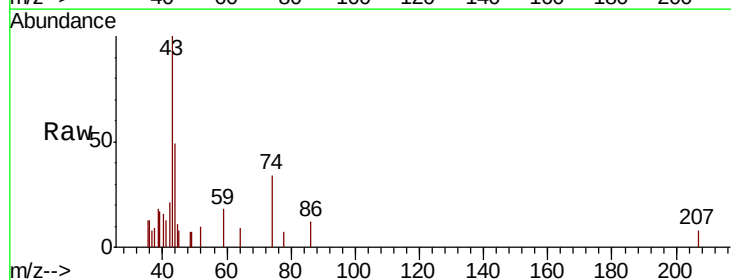
Acq: 26 Jul 2019 17:22

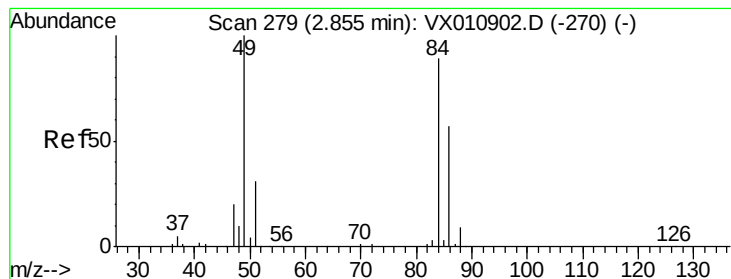
Tgt Ion: 43 Resp: 1576

Ion Ratio Lower Upper

43 100

74 30.2 21.5 32.3





#20

Methvlene Chloride

Concen: 1.345 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX011096.D

Acq: 26 Jul 2019 17:22

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#02

Tot Ion: 84 Resp: 2792

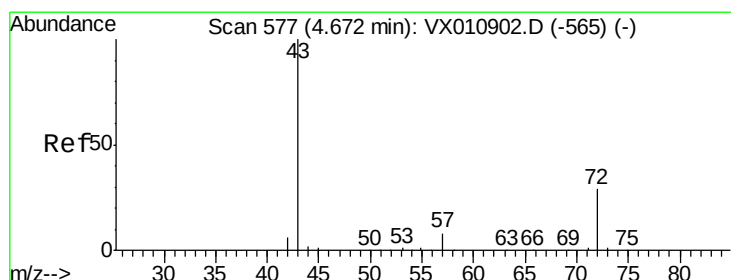
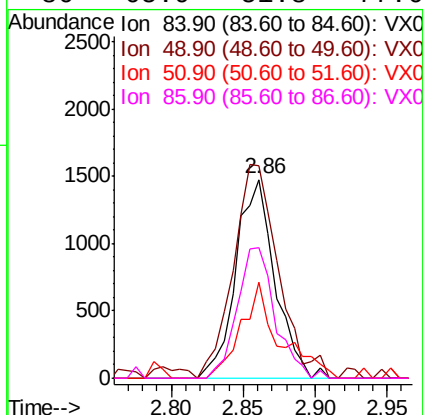
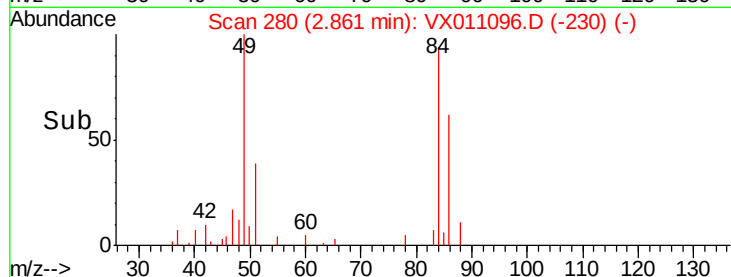
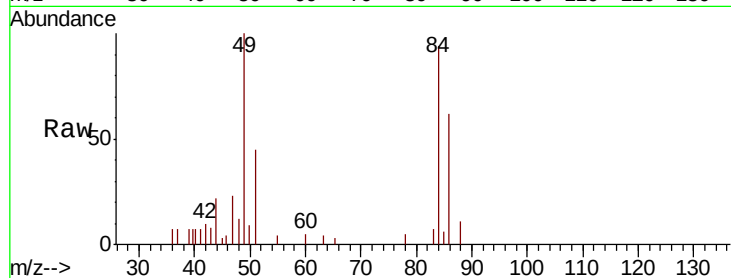
Ion Ratio Lower Upper

84 100

49 106.9 89.9 134.9

51 48.6 27.8 41.6#

86 65.9 51.8 77.6



#25

2-Butanone

Concen: 0.849 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011096.D

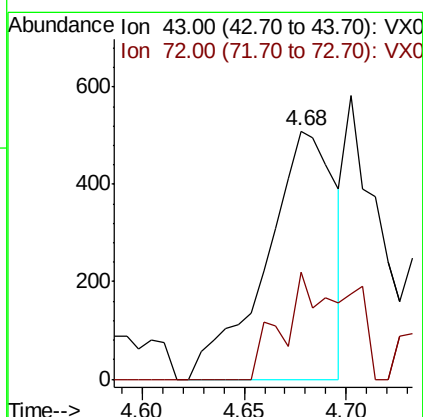
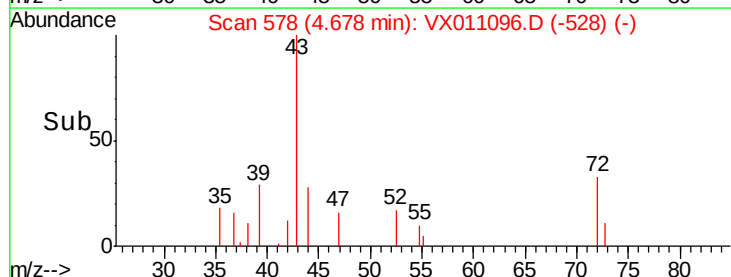
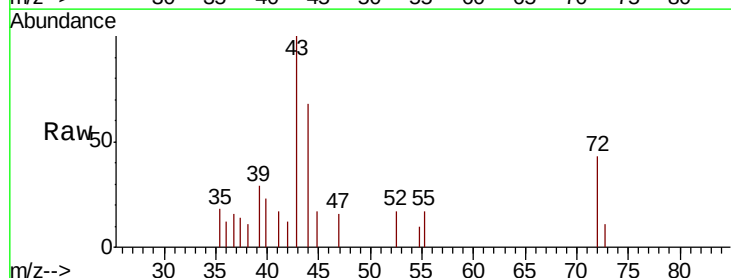
Acq: 26 Jul 2019 17:22

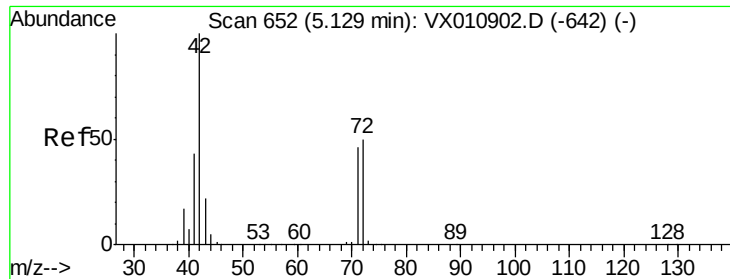
Tgt Ion: 43 Resp: 1194

Ion Ratio Lower Upper

43 100

72 43.2 23.0 34.6#





#29

Tetrahydrofuran

Concen: 0.236 ug/l

RT: 5.12 min Scan# 650

Delta R.T. -0.01 min

Lab File: VX011096.D

Acq: 26 Jul 2019 17:22

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MSVOA_X

ClientSampleId :

PB121723ZHE#02

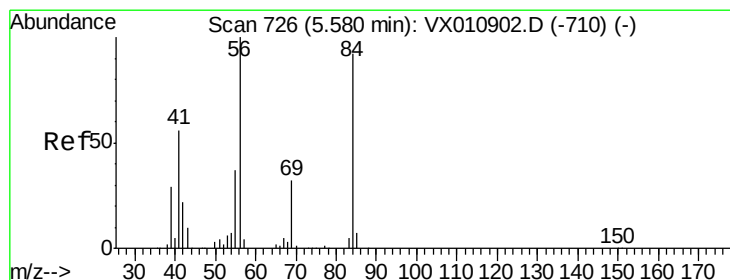
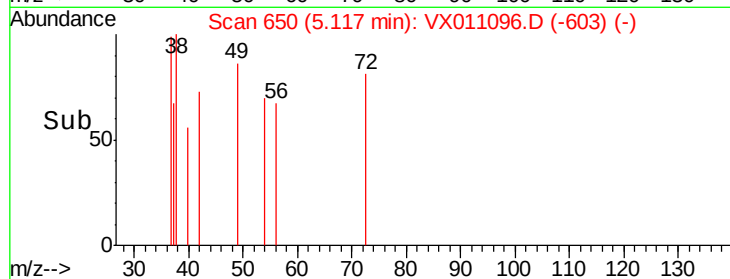
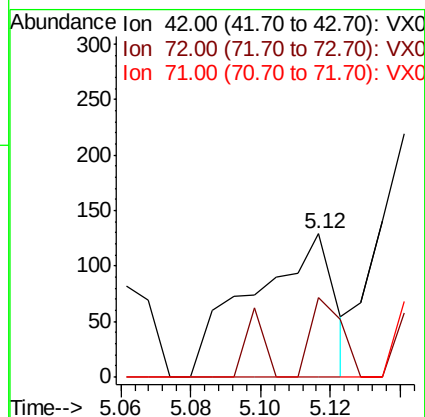
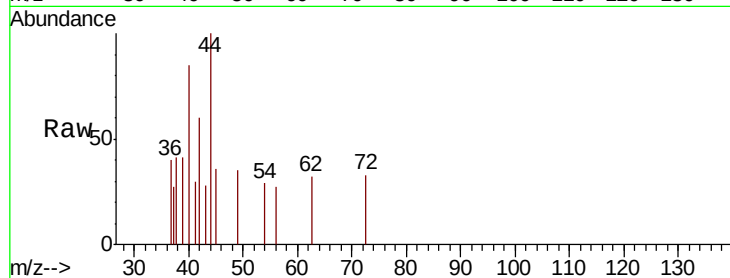
Tot Ion: 42 Resp: 210

Ion Ratio Lower Upper

42 100

72 21.4 39.8 59.8#

71 0.0 37.0 55.4#



#31

Cyclohexane

Concen: 0.216 ug/l

RT: 5.59 min Scan# 728

Delta R.T. 0.01 min

Lab File: VX011096.D

Acq: 26 Jul 2019 17:22

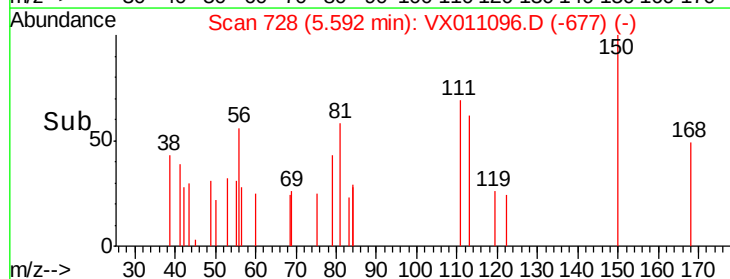
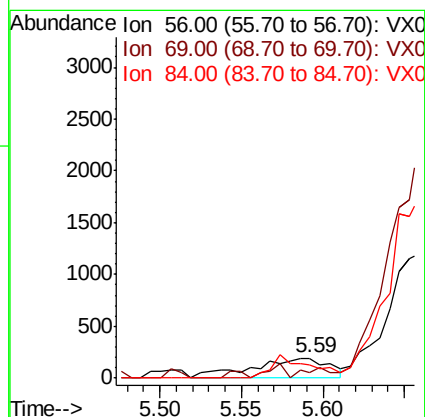
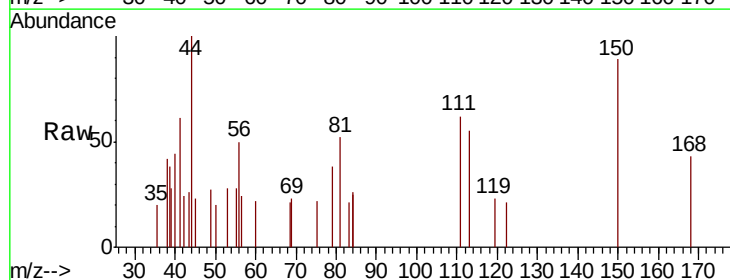
Tgt Ion: 56 Resp: 635

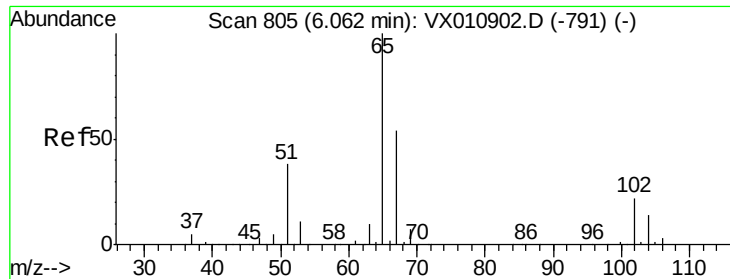
Ion Ratio Lower Upper

56 100

69 30.7 25.8 38.8

84 68.2 73.8 110.6#

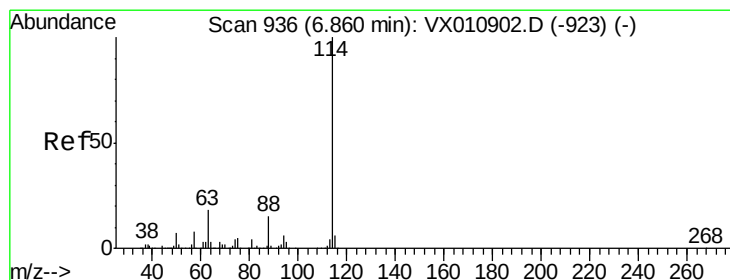
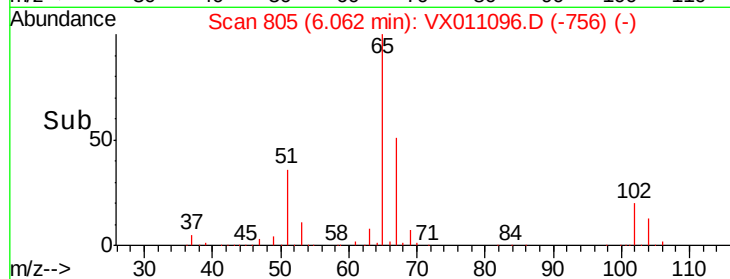
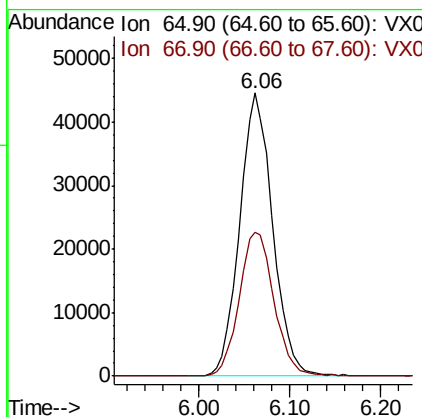
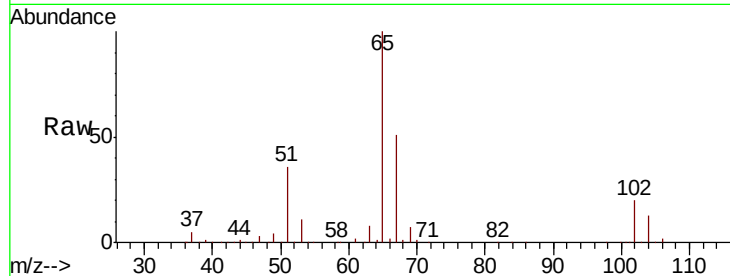




#33
 1,2-Dichloroethane-d4
 Concen: 51.718 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX011096.D
 Acq: 26 Jul 2019 17:22

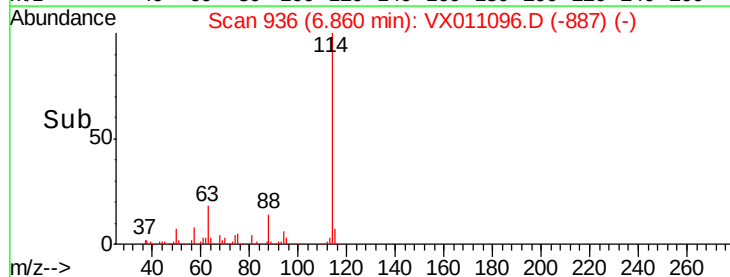
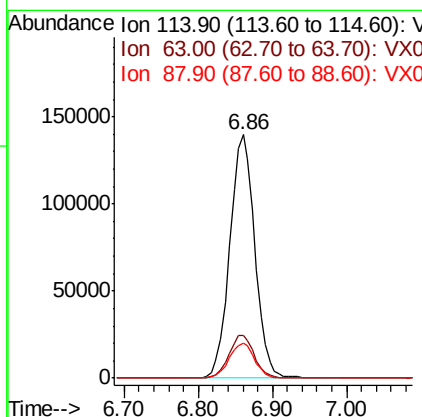
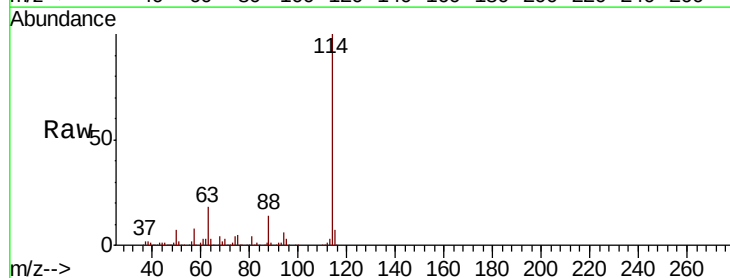
Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#02

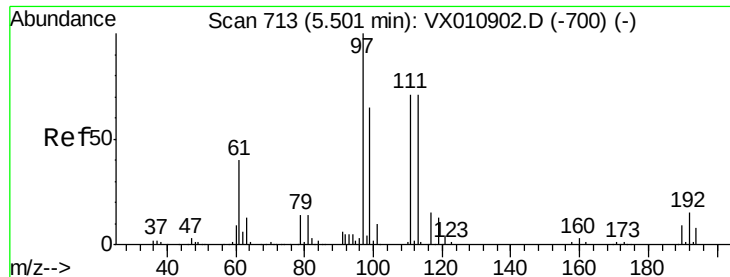
Tot Ion: 65 Resp: 112167
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX011096.D
 Acq: 26 Jul 2019 17:22

Tgt Ion: 114 Resp: 328034
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 35.6
 88 14.2 0.0 29.8

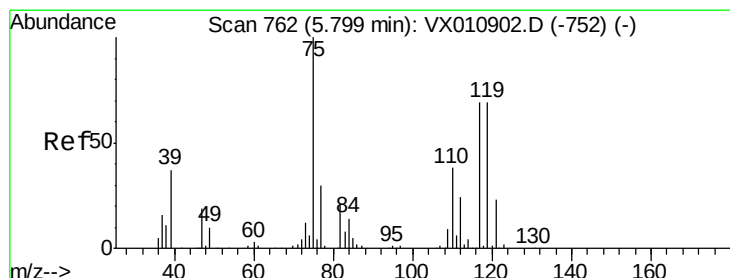
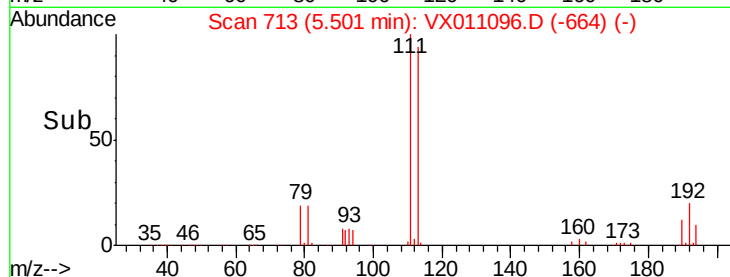
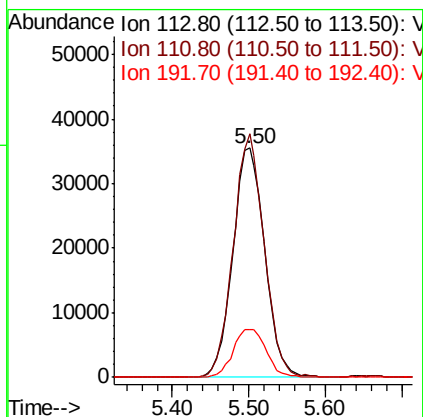
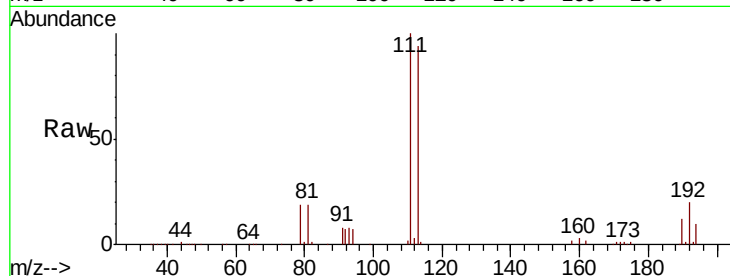




#35
 Dibromofluoromethane
 Concen: 49.410 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX011096.D
 Acq: 26 Jul 2019 17:22

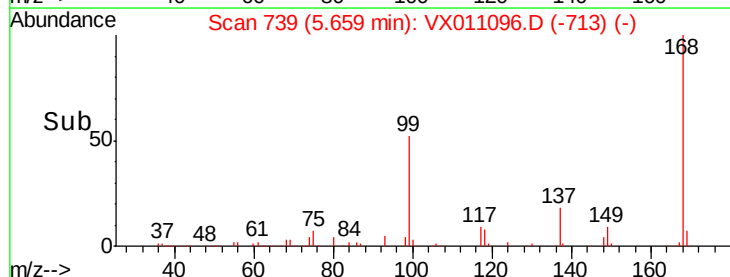
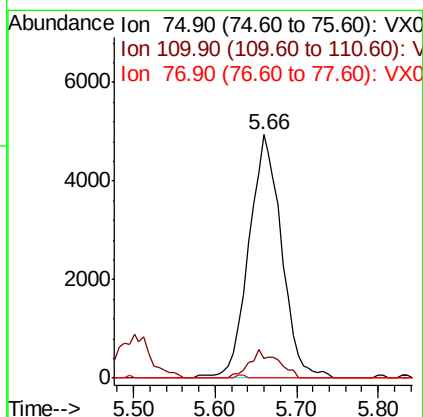
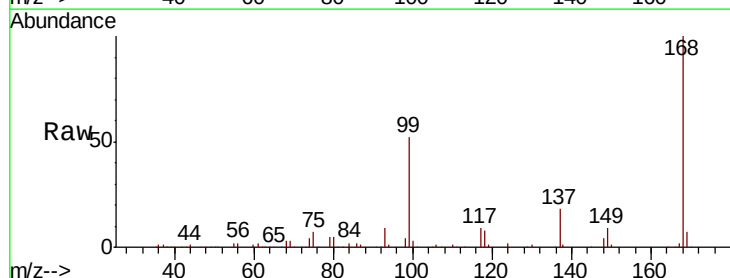
Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#02

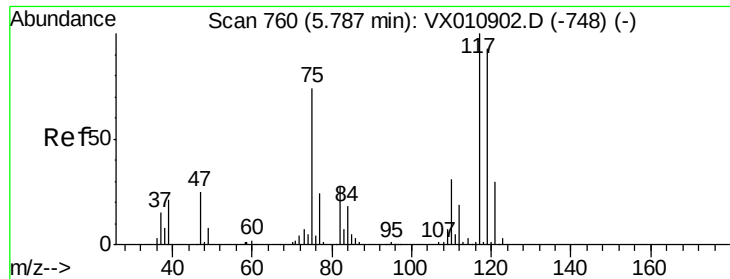
Tot Ion:113 Resp: 102876
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.3 123.5
 192 21.6 17.4 26.2



#36
 1,1-Dichloropropene
 Concen: 5.133 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX011096.D
 Acq: 26 Jul 2019 17:22

Tgt Ion: 75 Resp: 13830
 Ion Ratio Lower Upper
 75 100
 110 10.0 19.9 59.7#
 77 0.0 25.0 37.4#

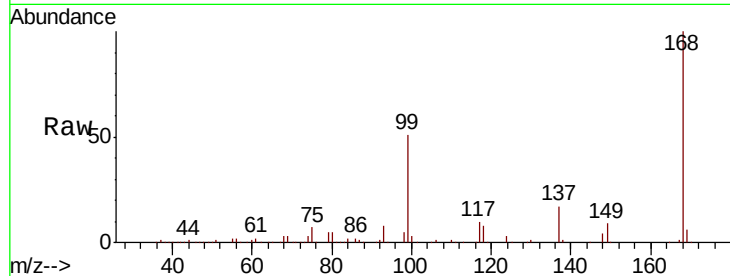




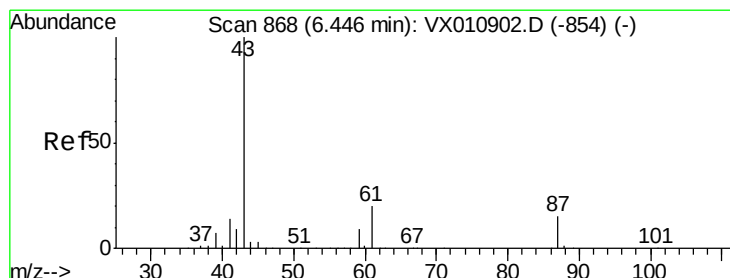
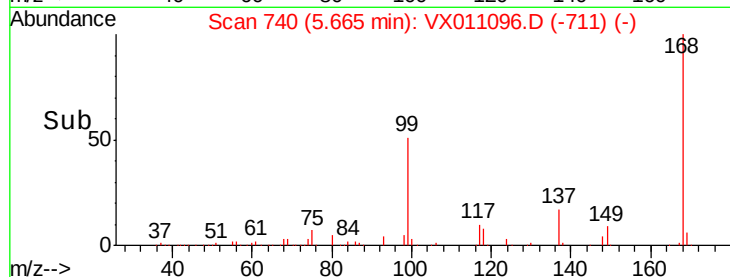
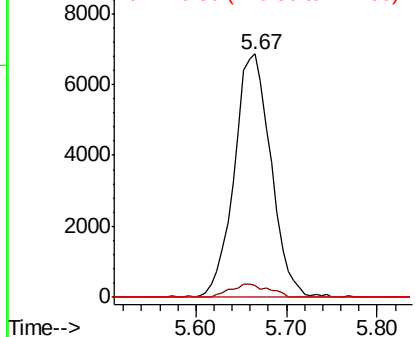
#38
Carbon Tetrachloride
Concen: 6.883 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX011096.D
Acq: 26 Jul 2019 17:22

Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#02

Tot Ion:117 Resp: 19326
Ion Ratio Lower Upper
117 100
119 4.7 74.2 111.2#
121 0.0 24.2 36.2#

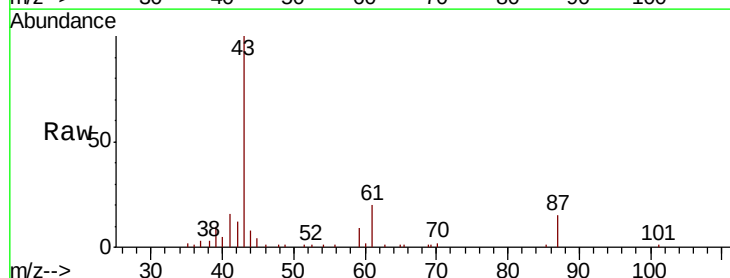


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

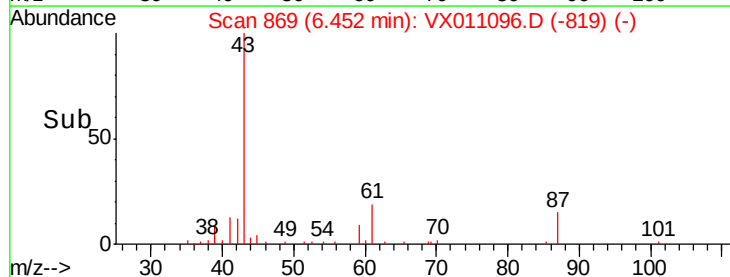
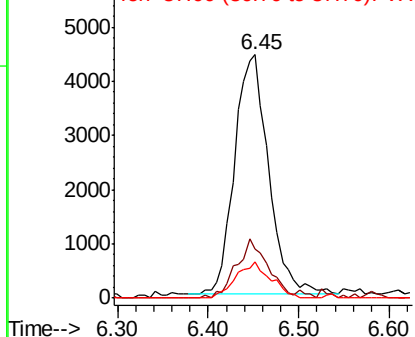


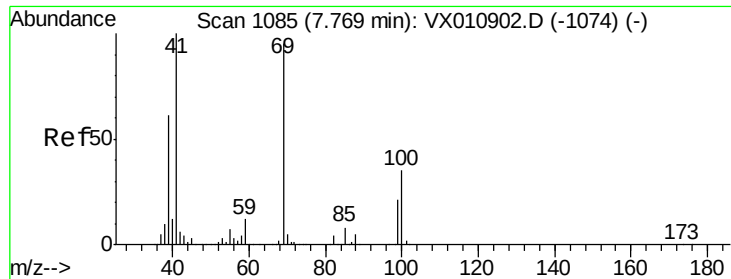
#43
Isopropyl Acetate
Concen: 2.547 ug/l
RT: 6.45 min Scan# 869
Delta R.T. 0.01 min
Lab File: VX011096.D
Acq: 26 Jul 2019 17:22

Tgt Ion: 43 Resp: 11557
Ion Ratio Lower Upper
43 100
61 22.8 17.1 25.7
87 15.1 12.0 18.0



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0

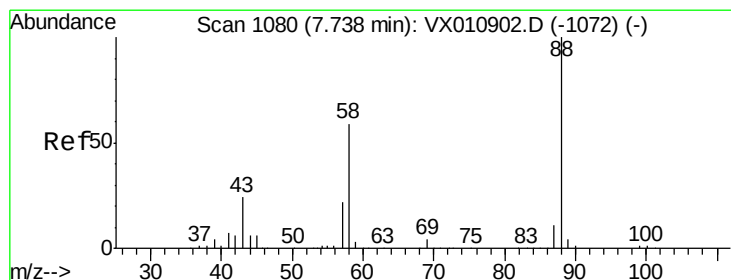
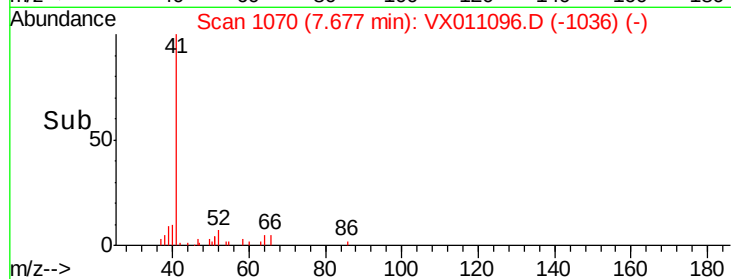
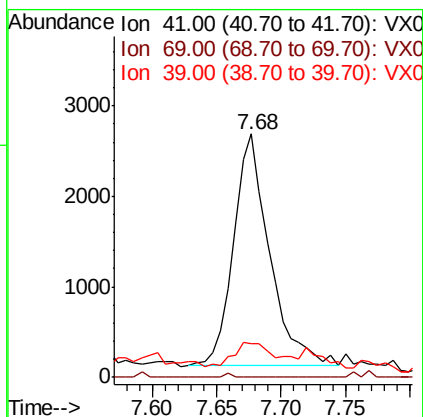
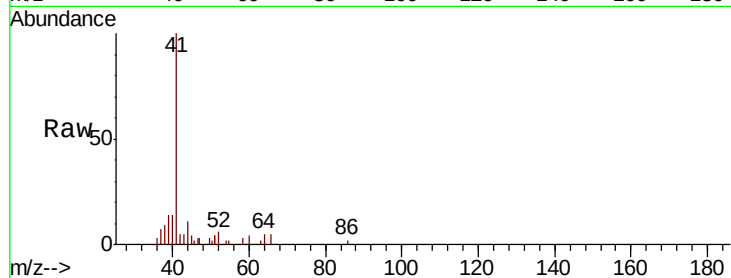




#48
Methvl methacrylate
Concen: 2.254 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011096.D
Acq: 26 Jul 2019 17:22

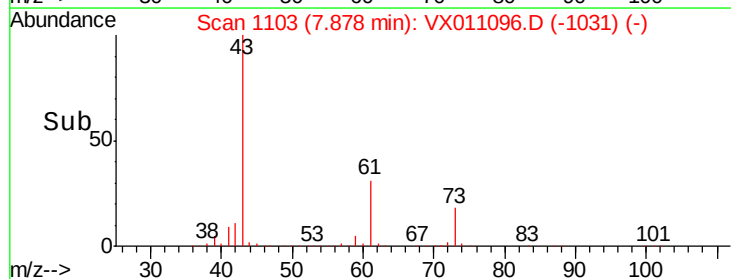
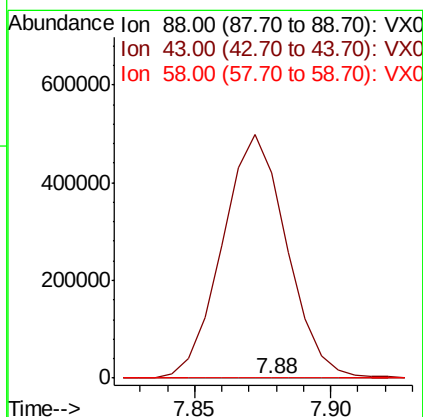
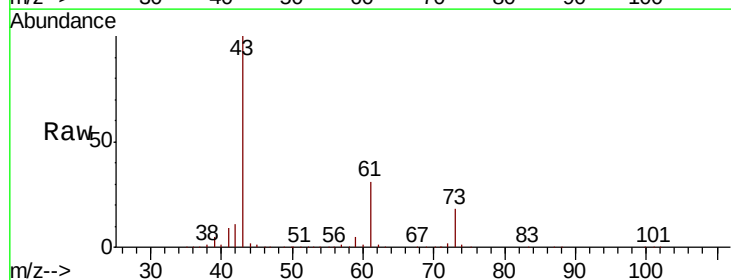
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#02

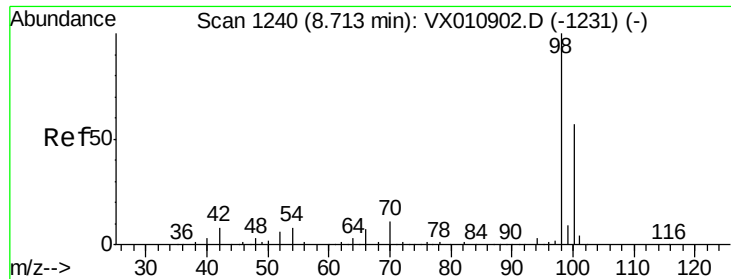
Tot Ion: 41 Resp: 4981
Ion Ratio Lower Upper
41 100
69 0.4 74.4 111.6#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 3.365 ug/l
RT: 7.88 min Scan# 1103
Delta R.T. 0.14 min
Lab File: VX011096.D
Acq: 26 Jul 2019 17:22

Tgt Ion: 88 Resp: 208
Ion Ratio Lower Upper
88 100
43 396657.7 22.9 34.3#
58 1780.3 49.8 74.8#





#50

Toluene-d8

Concen: 51.690 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011096.D

Acq: 26 Jul 2019 17:22

Instrument :

MSVOA_X

ClientSampleId :

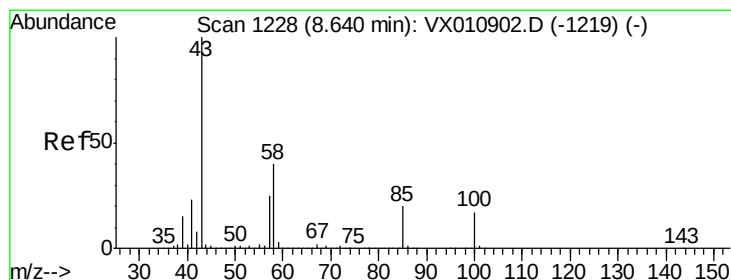
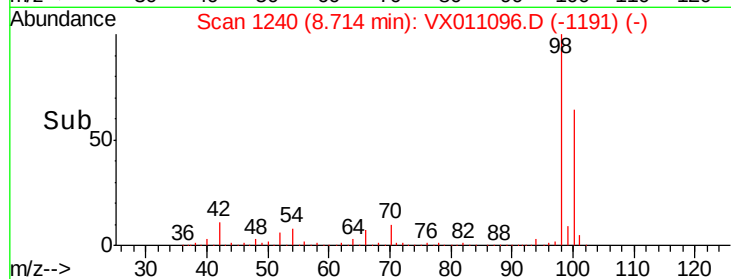
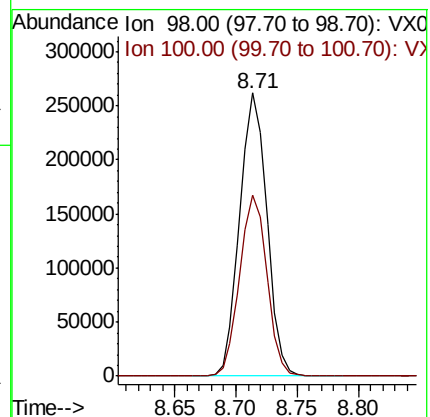
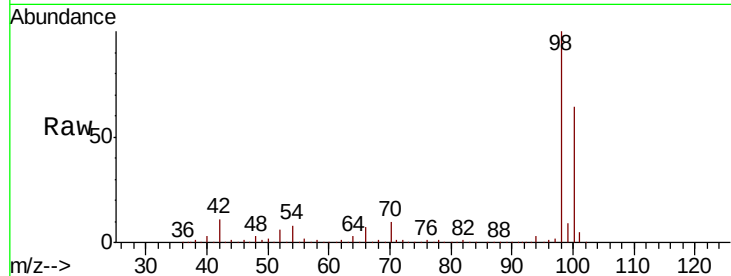
PB121723ZHE#02

Tot Ion: 98 Resp: 403658

Ion Ratio Lower Upper

98 100

100 64.0 50.6 75.8



#51

4-Methyl-2-Pentanone

Concen: 20.610 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011096.D

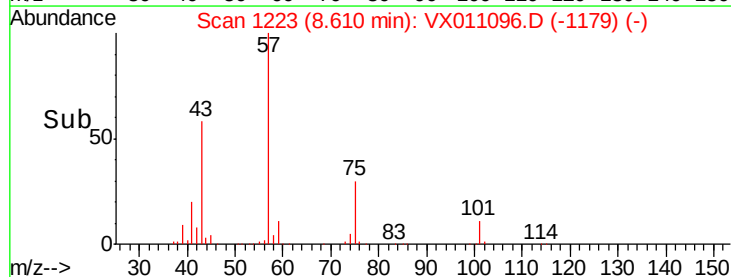
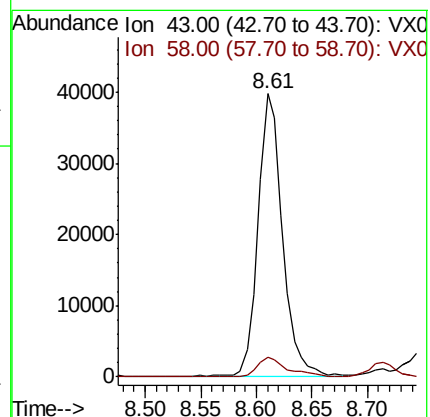
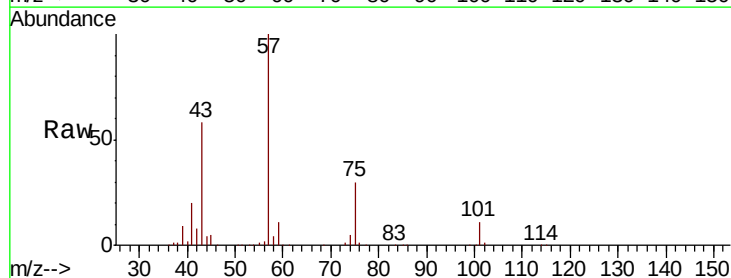
Acq: 26 Jul 2019 17:22

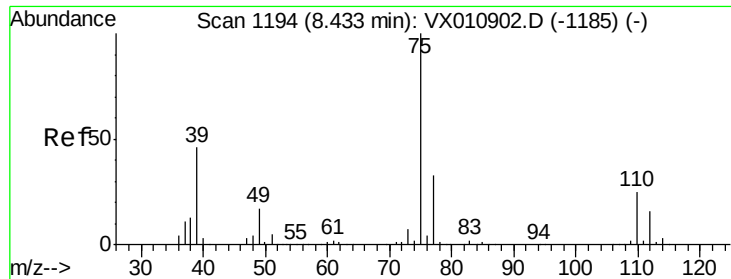
Tgt Ion: 43 Resp: 60612

Ion Ratio Lower Upper

43 100

58 8.7 32.2 48.4#



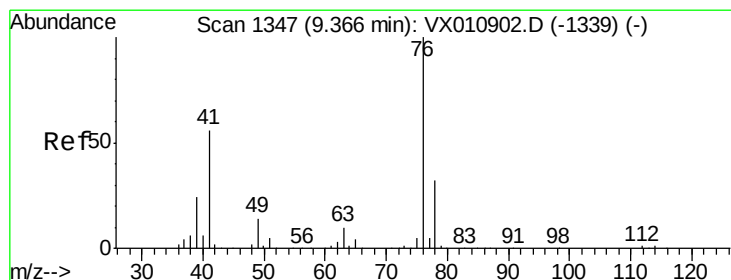
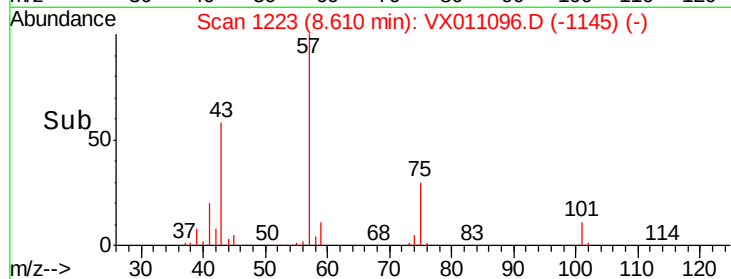
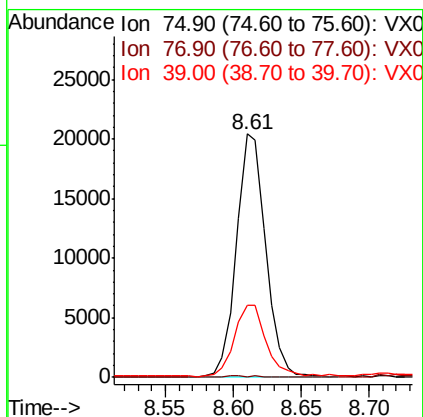
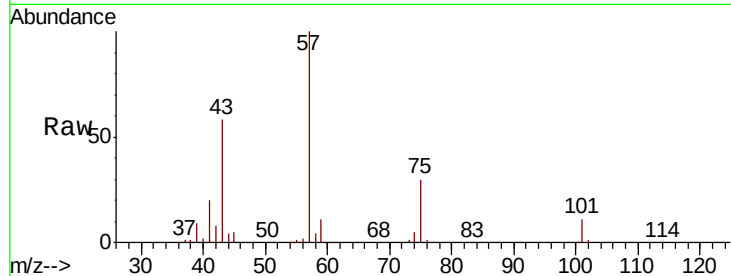


#54

cis-1,3-Dichloropropene
 Concen: 9.600 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011096.D
 Acq: 26 Jul 2019 17:22

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#02

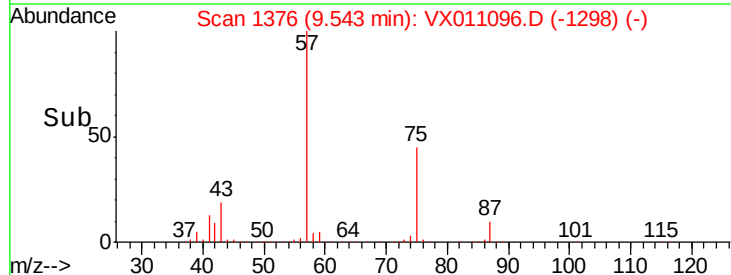
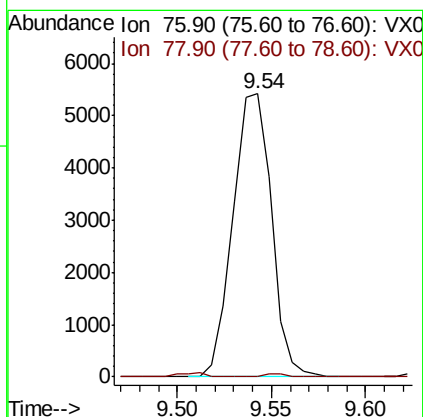
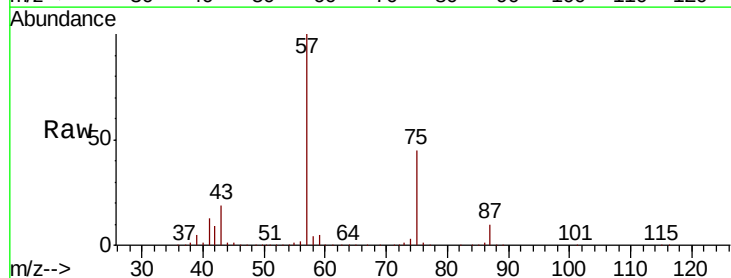
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.4	26.1	39.1#
39	28.8	36.6	54.8#

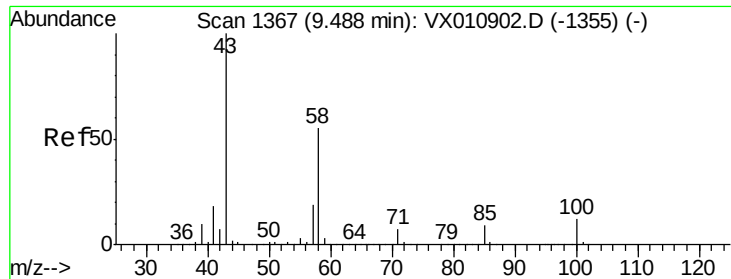


#57

1,3-Dichloropropane
 Concen: 2.178 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.18 min
 Lab File: VX011096.D
 Acq: 26 Jul 2019 17:22

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.6	25.6	38.4#

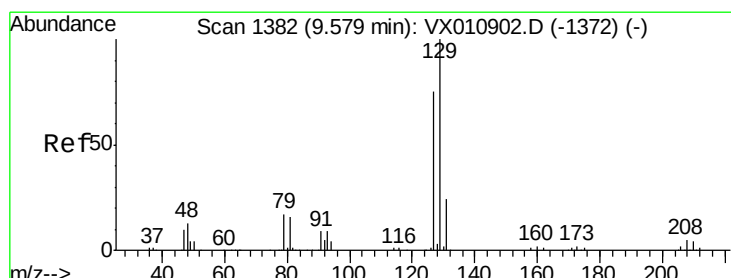
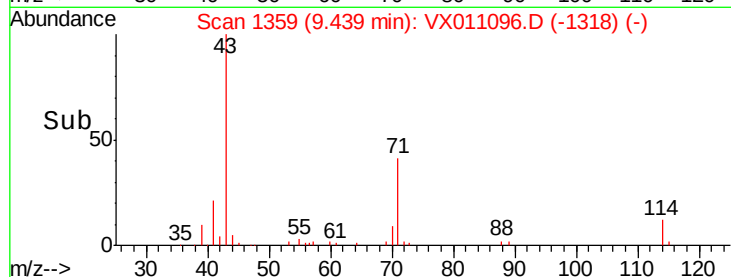
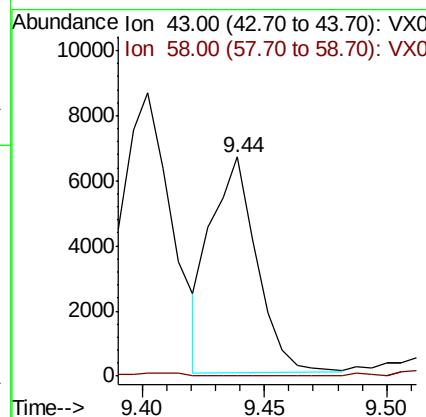
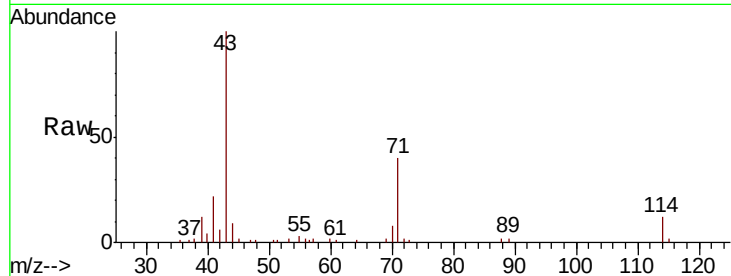




#59
2-Hexanone
Concen: 3.782 ug/l
RT: 9.44 min Scan# 1359
Delta R.T. -0.05 min
Lab File: VX011096.D
Acq: 26 Jul 2019 17:22

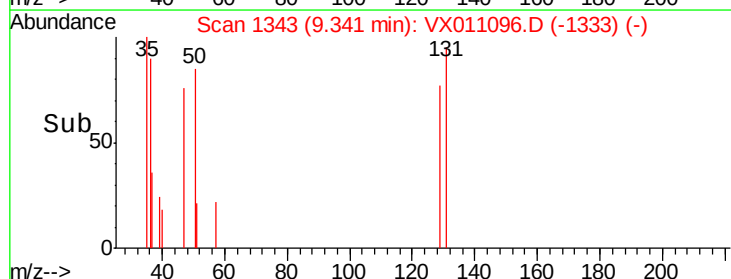
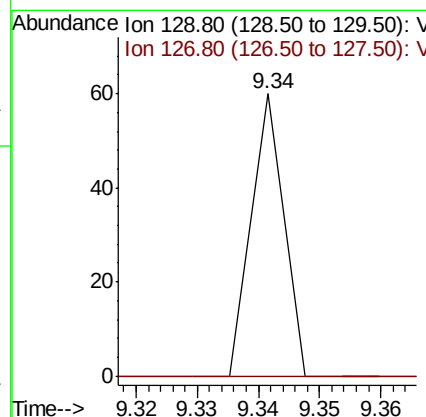
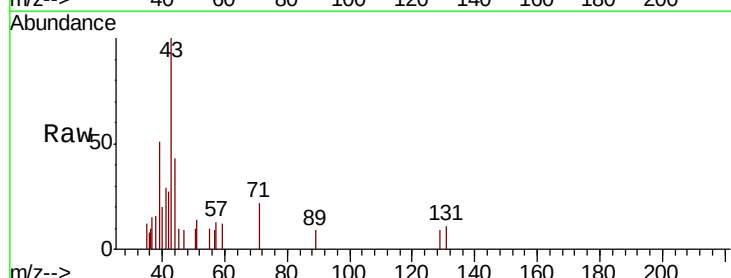
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#02

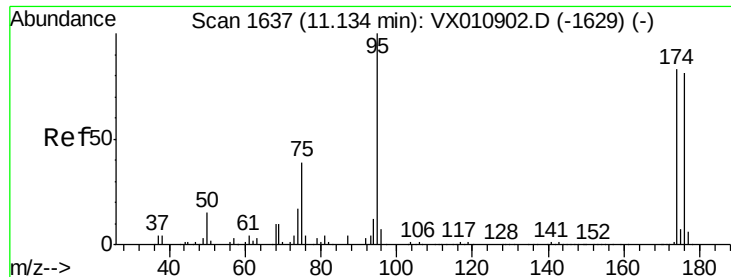
Tot Ion: 43 Resp: 8626
Ion Ratio Lower Upper
43 100
58 0.0 28.0 83.9#



#60
Dibromochloromethane
Concen: 2.536 ug/l
RT: 9.34 min Scan# 1343
Delta R.T. -0.24 min
Lab File: VX011096.D
Acq: 26 Jul 2019 17:22

Tgt Ion:129 Resp: 22
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 51.080 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011096.D

Acq: 26 Jul 2019 17:22

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#02

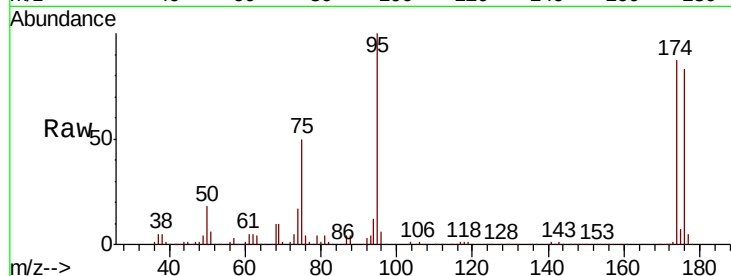
Tot Ion: 95 Resp: 146622

Ion Ratio Lower Upper

95 100

174 90.8 0.0 180.6

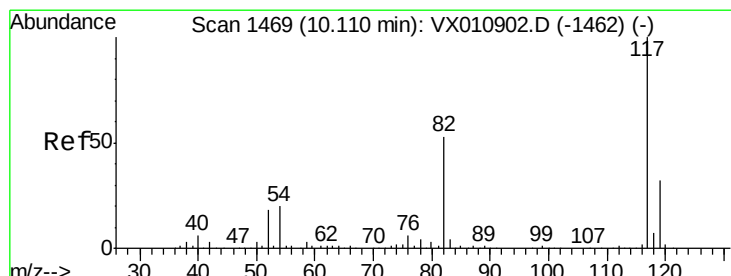
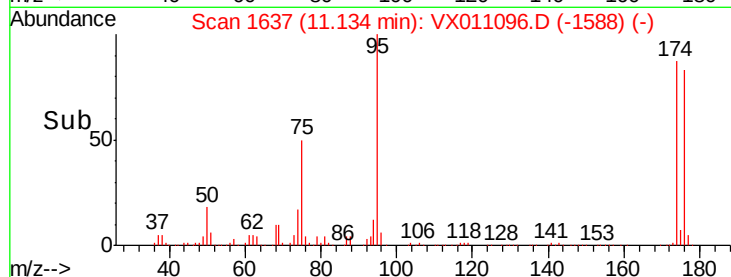
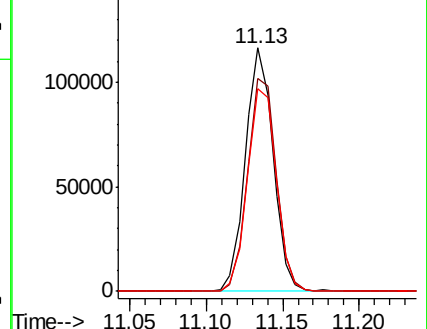
176 87.3 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX011096.D (-1629) (-)

Ion 173.80 (173.50 to 174.50): VX011096.D (-1629) (-)

Ion 175.80 (175.50 to 176.50): VX011096.D (-1629) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011096.D

Acq: 26 Jul 2019 17:22

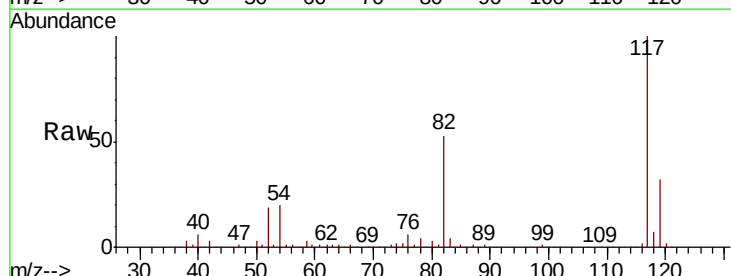
Tgt Ion: 117 Resp: 319051

Ion Ratio Lower Upper

117 100

82 53.0 42.6 63.8

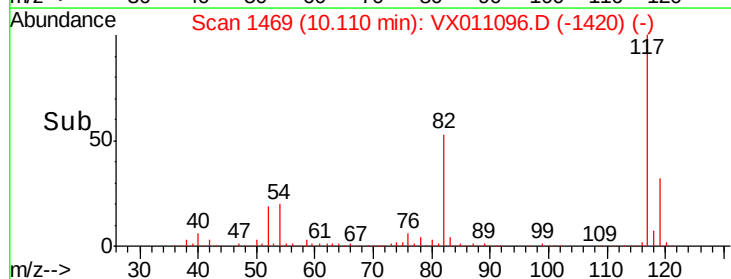
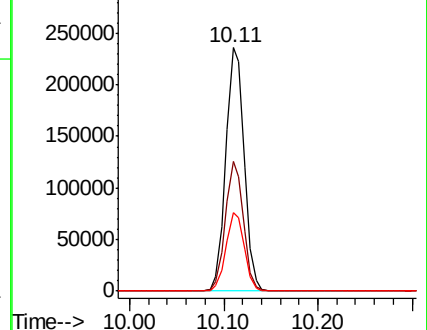
119 32.5 25.9 38.9

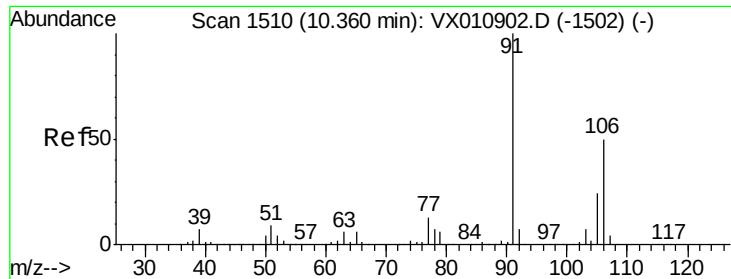


Abundance Ion 116.90 (116.60 to 117.60): VX011096.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011096.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011096.D (-1420) (-)





#68

m/p-Xvlenes

Concen: 0.551 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX011096.D

Acq: 26 Jul 2019 17:22

Instrument :

MSVOA_X

ClientSampleId :

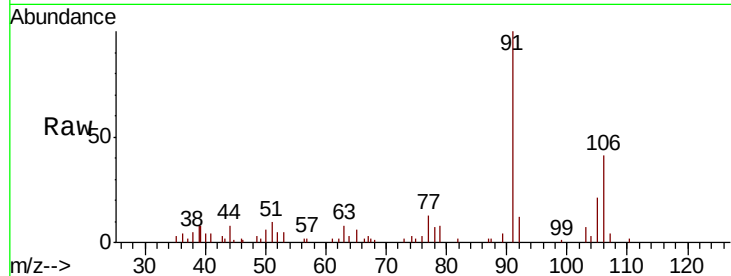
PB121723ZHE#02

Tot Ion:106 Resp: 2358

Ion Ratio Lower Upper

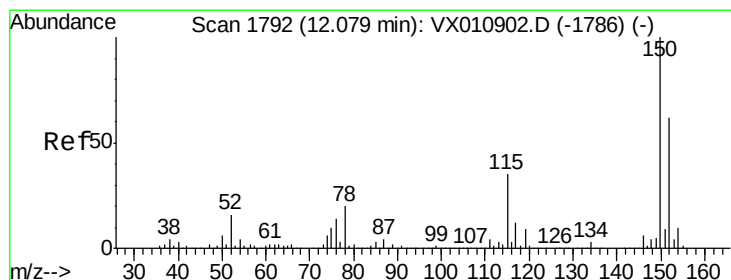
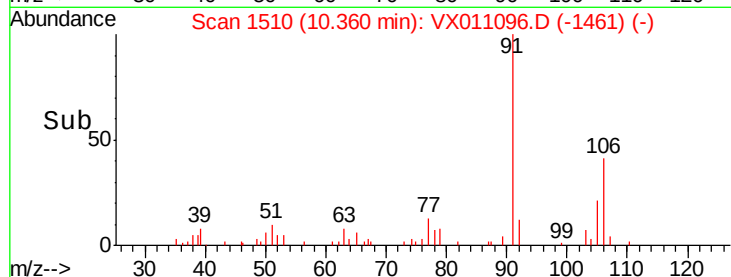
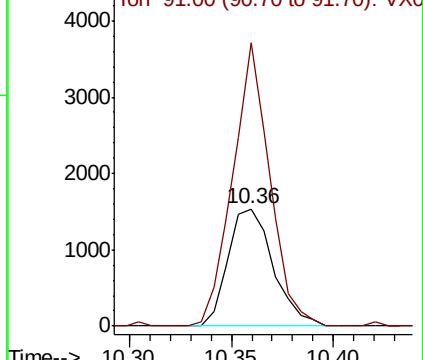
106 100

91 198.4 160.1 240.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX011096.D

Acq: 26 Jul 2019 17:22

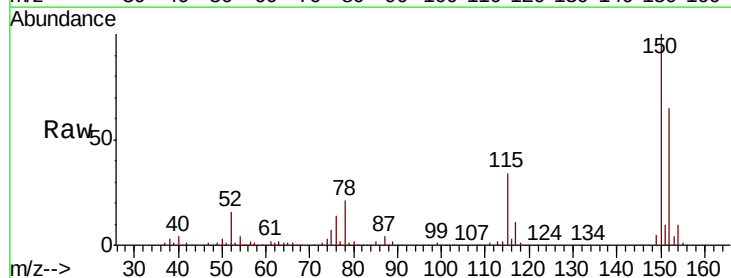
Tgt Ion:152 Resp: 150095

Ion Ratio Lower Upper

152 100

115 55.0 39.7 119.1

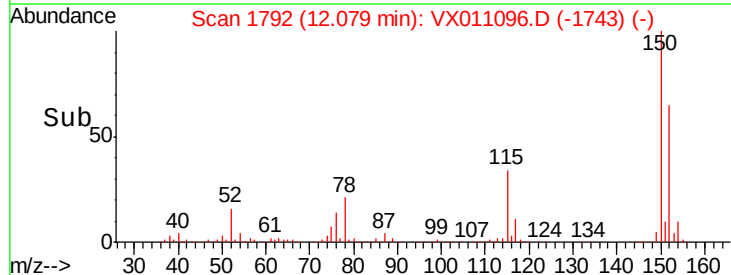
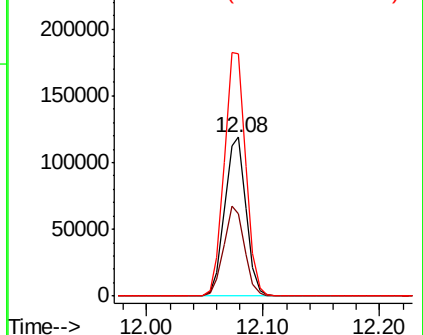
150 155.2 0.0 345.6

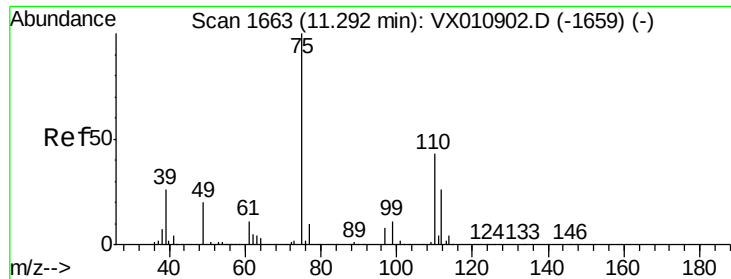


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

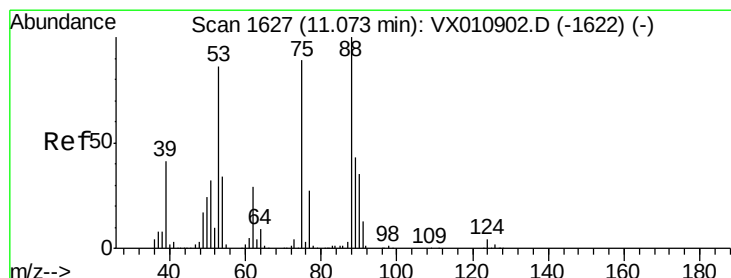
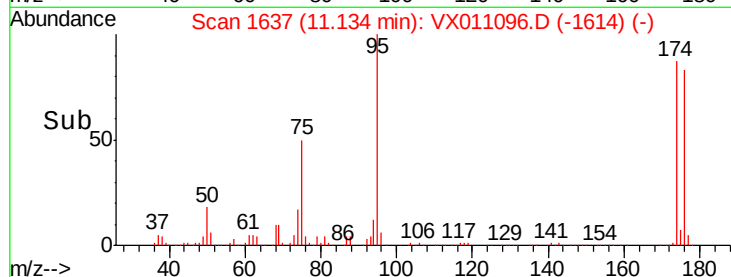
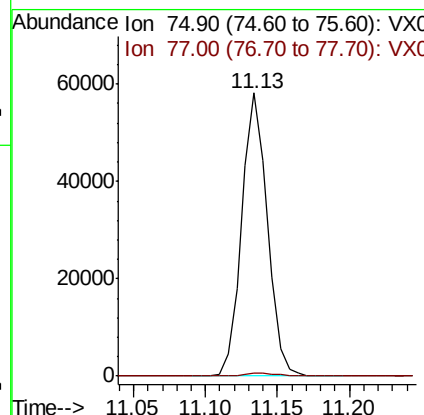
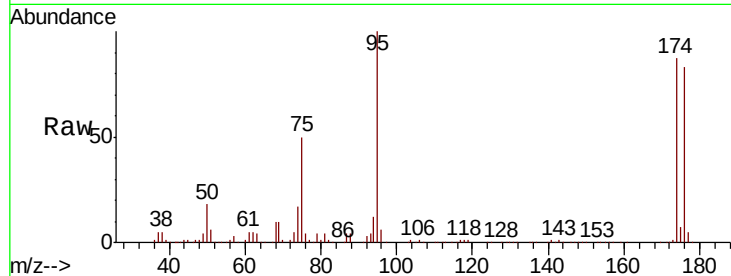




#76
 1,2,3-Trichloropropane
 Concen: 26.658 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011096.D
 Acq: 26 Jul 2019 17:22

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#02

Tot Ion: 75 Resp: 72203
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.3 64.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.142 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011096.D
 Acq: 26 Jul 2019 17:22

Tgt Ion: 75 Resp: 72203
 Ion Ratio Lower Upper
 75 100
 53 0.3 76.7 115.1#
 89 0.0 38.5 57.7#

