

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072619\
 Data File : VX011095.D
 Acq On : 26 Jul 2019 16:59
 Operator : JC/SP
 Sample : PB121723ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#01

Quant Time: Jul 27 02:03:59 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	205252	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	324689	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	317243	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	145830	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	110381	50.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.10%	
35) Dibromofluoromethane	5.50	113	101335	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	
50) Toluene-d8	8.71	98	403338	52.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.36%	
62) 4-Bromofluorobenzene	11.13	95	143390	50.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.94%	

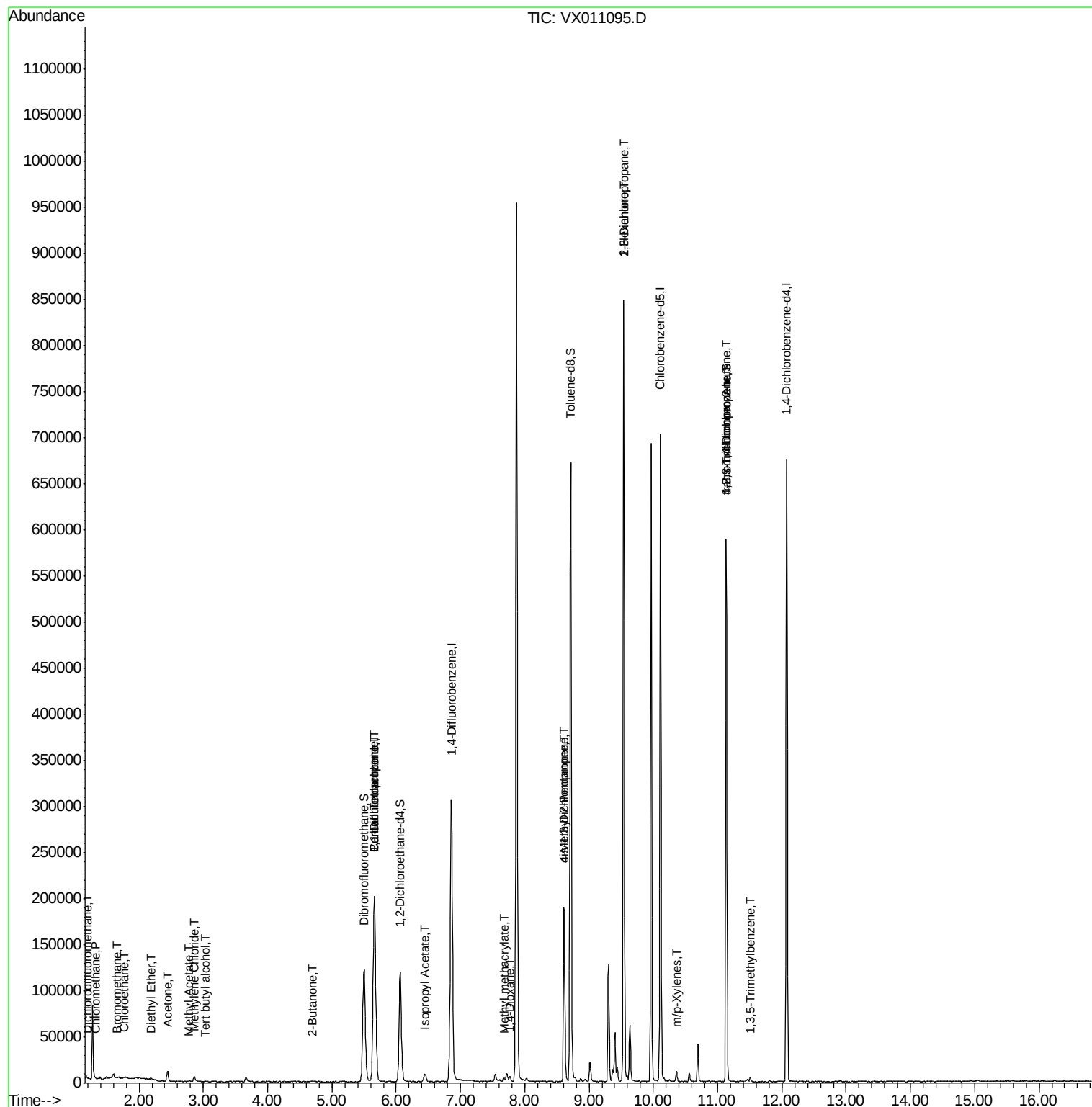
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	46	0.567	ug/l #	43
3) Chloromethane	1.32	50	503	0.266	ug/l #	84
5) Bromomethane	1.66	94	465	0.429	ug/l	100
6) Chloroethane	1.78	64	283	0.231	ug/l #	61
8) Diethyl Ether	2.18	74	330	0.294	ug/l	61
11) Tert butyl alcohol	3.03	59	327	0.643	ug/l #	89
16) Acetone	2.44	43	12630	12.807	ug/l	96
18) Methyl Acetate	2.77	43	1253	0.558	ug/l #	84
20) Methylene Chloride	2.85	84	2599	1.244	ug/l	93
25) 2-Butanone	4.69	43	1321	0.933	ug/l	93
36) 1,1-Dichloropropene	5.66	75	13834	5.187	ug/l #	49
38) Carbon Tetrachloride	5.67	117	18855	6.784	ug/l #	18
43) Isopropyl Acetate	6.45	43	12080	2.690	ug/l	98
48) Methyl methacrylate	7.68	41	5441	2.487	ug/l #	10
49) 1,4-Dioxane	7.76	88	22	0.360	ug/l #	28
51) 4-Methyl-2-Pentanone	8.61	43	61333	21.070	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	31543	9.968	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	7696	2.195	ug/l #	46
59) 2-Hexanone	9.54	43	96428	42.710	ug/l #	51
68) m/p-Xylenes	10.36	106	2676	0.629	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	70793	26.901	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	1661	0.202	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	70793	66.711	ug/l #	11

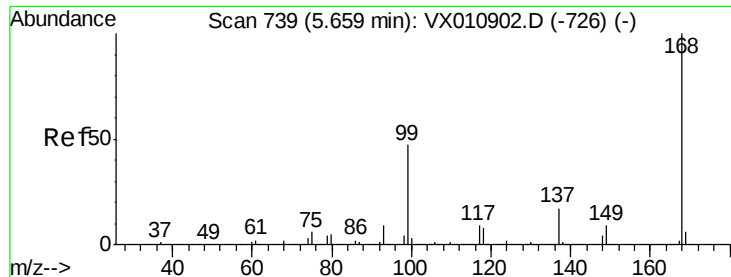
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 27 02:03:59 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: VX011095.D

Acq: 26 Jul 2019 16:59

Instrument :

MSVOA_X

ClientSampleId :

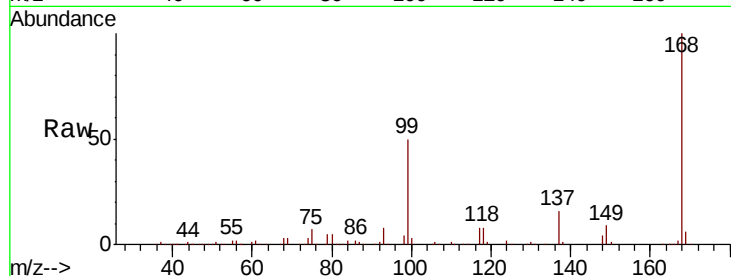
PB121723ZHE#01

Tot Ion:168 Resp: 205252

Ion Ratio Lower Upper

168 100

99 49.9 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

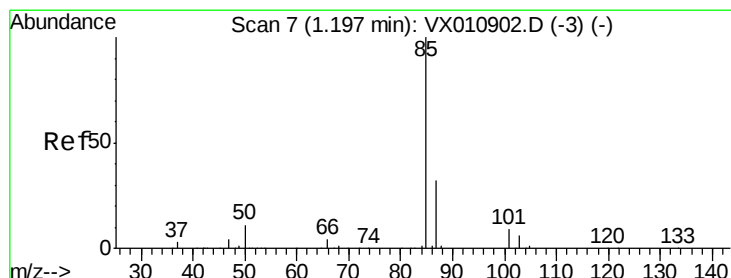
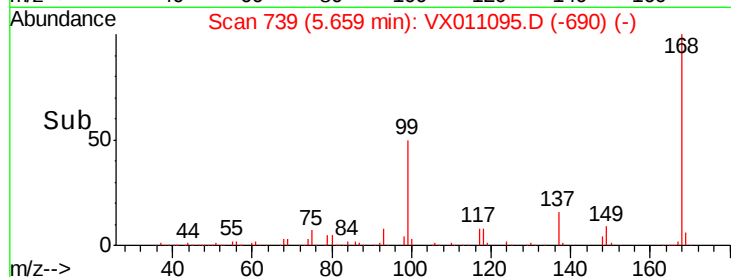
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.567 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX011095.D

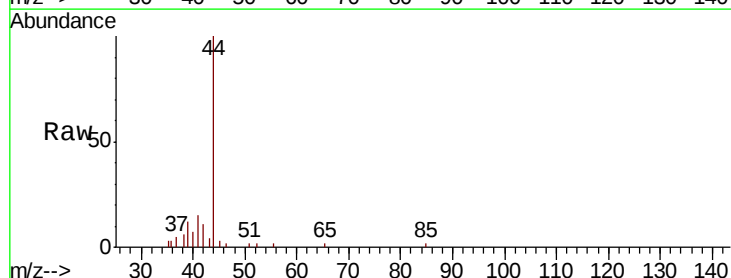
Acq: 26 Jul 2019 16:59

Tgt Ion: 85 Resp: 46

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

1.20

80

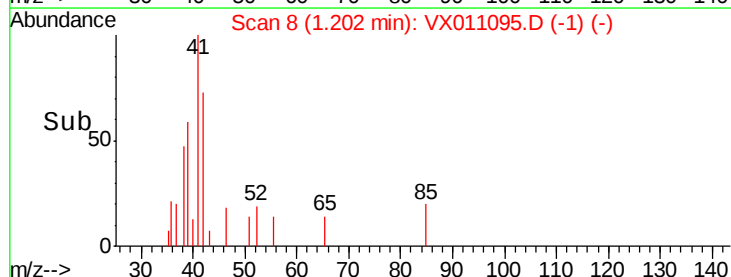
60

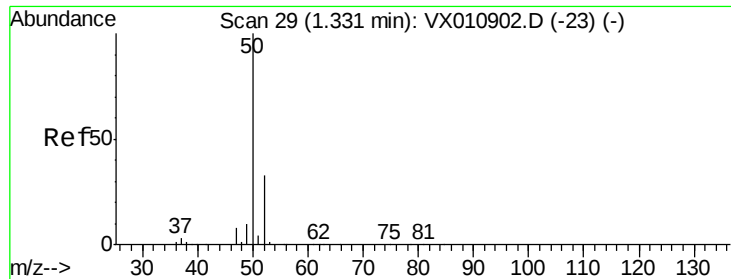
40

20

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.266 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX011095.D

Acq: 26 Jul 2019 16:59

Instrument :

MSVOA_X

ClientSampleId :

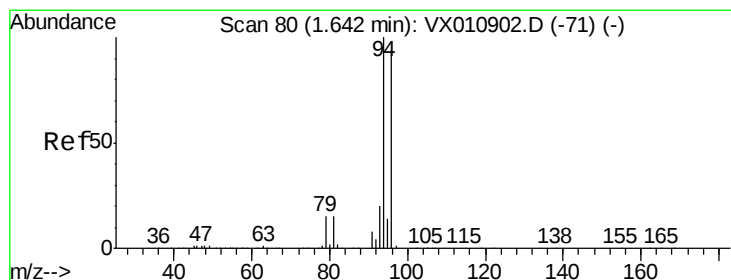
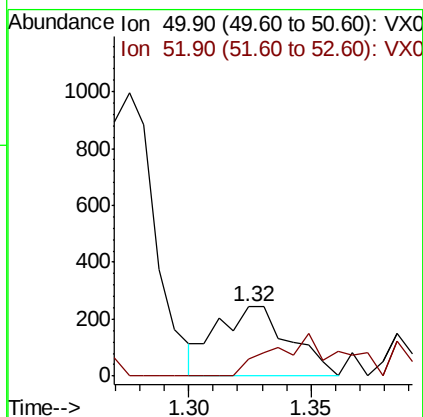
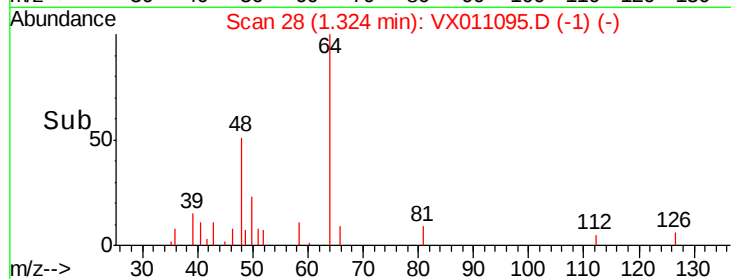
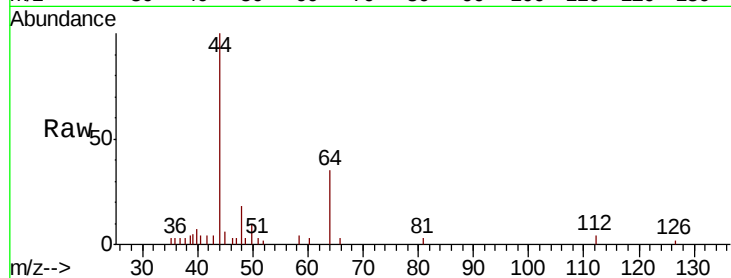
PB121723ZHE#01

Tot Ion: 50 Resp: 503

Ion Ratio Lower Upper

50 100

52 23.8 26.4 39.6#



#5

Bromomethane

Concen: 0.429 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX011095.D

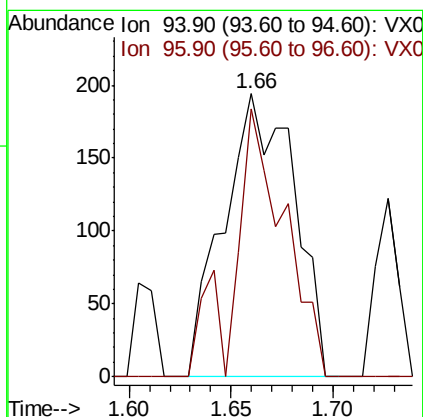
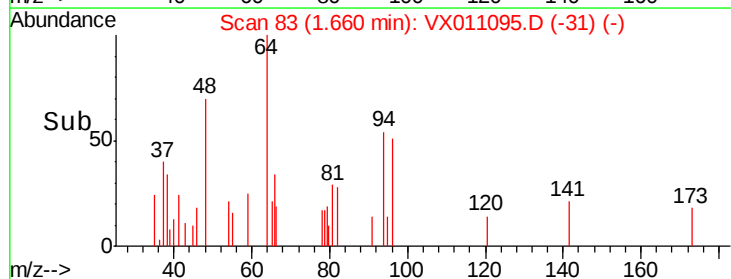
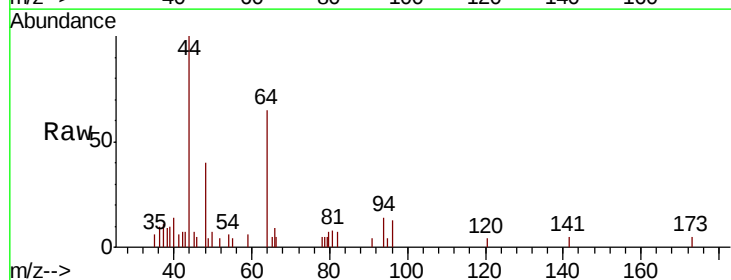
Acq: 26 Jul 2019 16:59

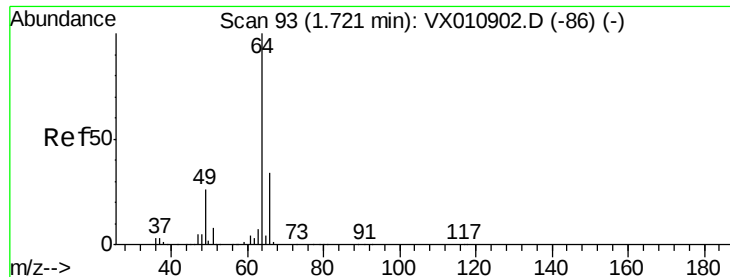
Tgt Ion: 94 Resp: 465

Ion Ratio Lower Upper

94 100

96 94.8 75.6 113.4





#6

Chloroethane

Concen: 0.231 ug/l

RT: 1.78 min Scan# 102

Delta R.T. 0.05 min

Lab File: VX011095.D

Acq: 26 Jul 2019 16:59

Instrument :

MSVOA_X

ClientSampleId :

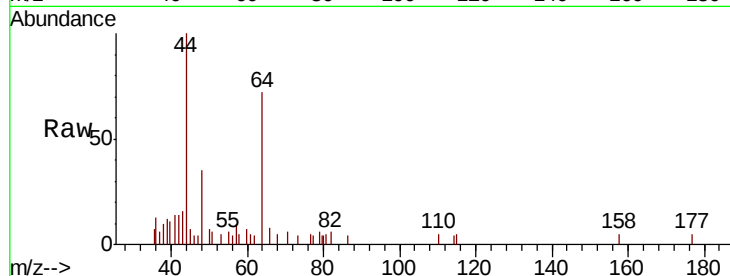
PB121723ZHE#01

Tot Ion: 64 Resp: 283

Ion Ratio Lower Upper

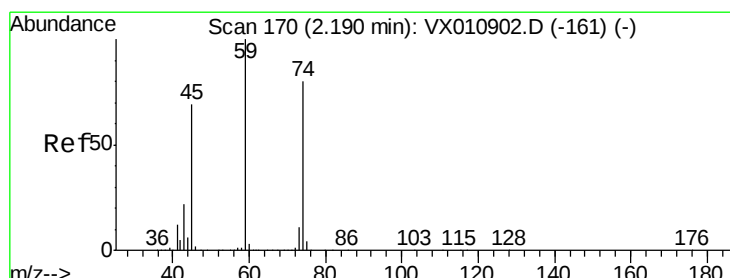
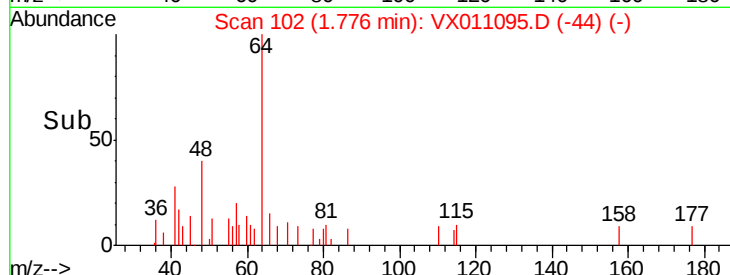
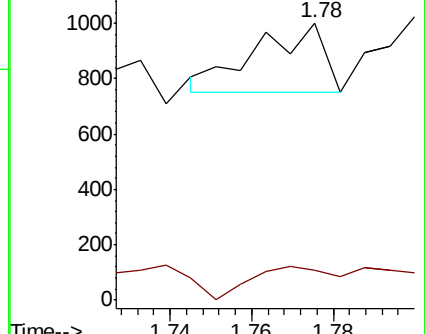
64 100

66 11.6 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: 0.294 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX011095.D

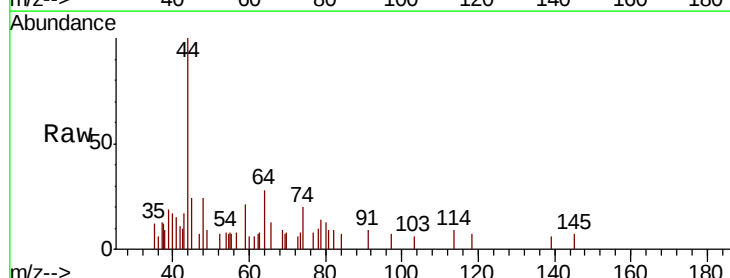
Acq: 26 Jul 2019 16:59

Tgt Ion: 74 Resp: 330

Ion Ratio Lower Upper

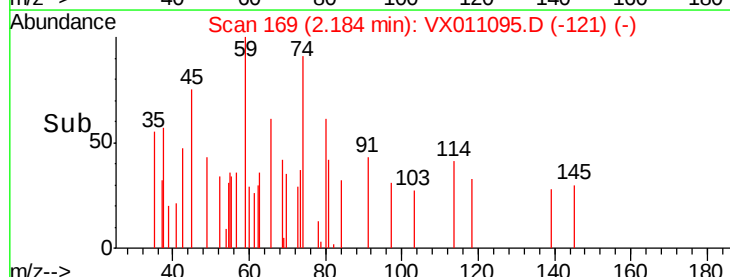
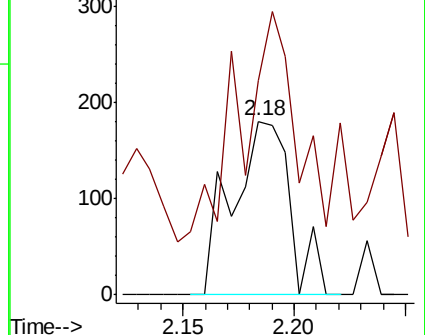
74 100

45 127.6 45.5 136.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

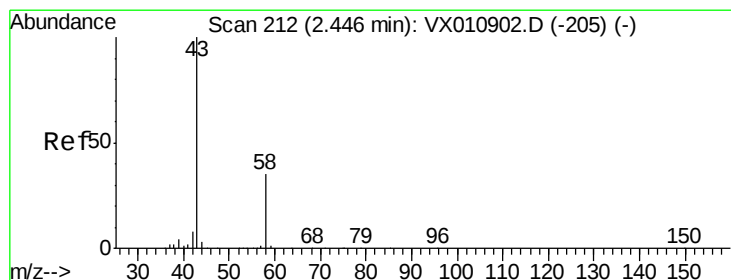
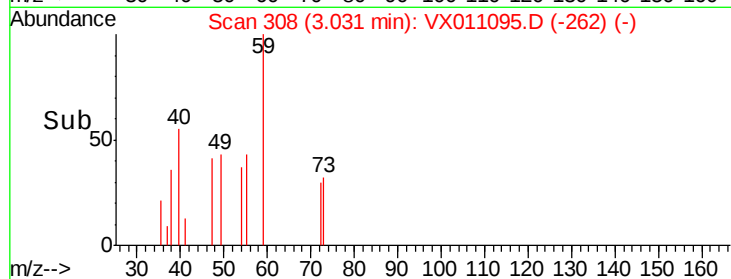
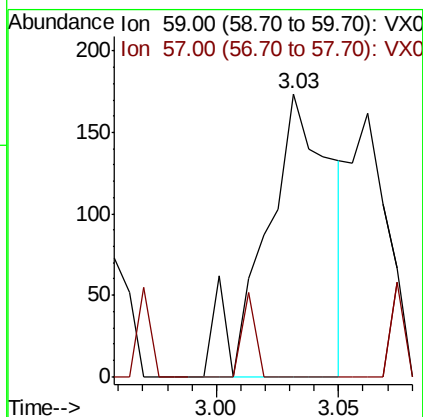
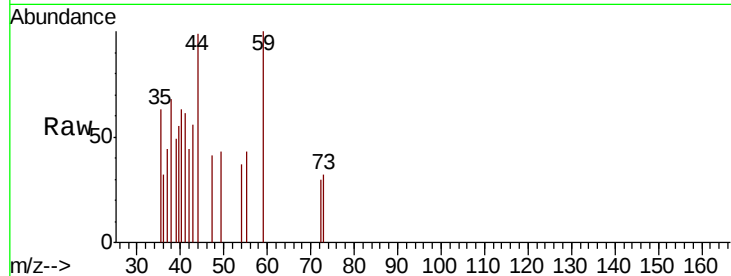




#11
Tert butyl alcohol
Concen: 0.643 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX011095.D
Acq: 26 Jul 2019 16:59

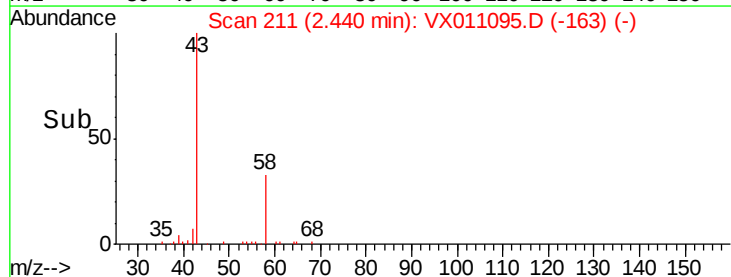
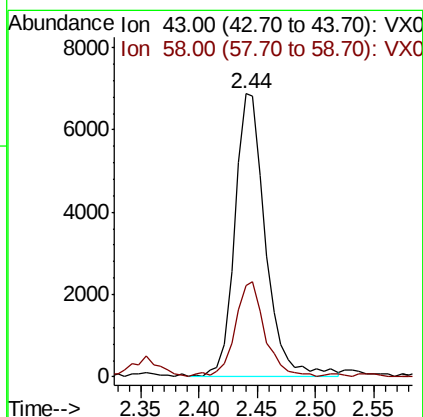
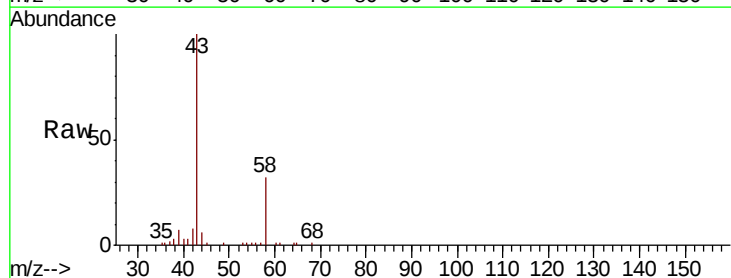
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#01

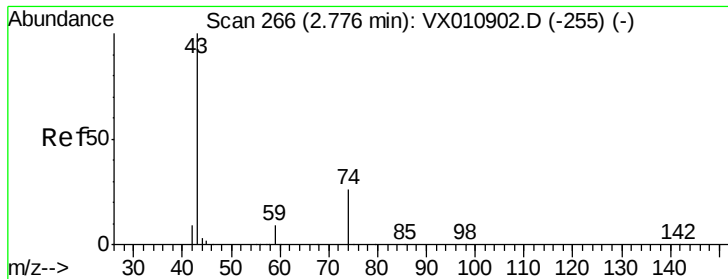
Tot Ion: 59 Resp: 327
Ion Ratio Lower Upper
59 100
57 5.8 7.9 11.9#



#16
Acetone
Concen: 12.807 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX011095.D
Acq: 26 Jul 2019 16:59

Tgt Ion: 43 Resp: 12630
Ion Ratio Lower Upper
43 100
58 32.3 27.7 41.5

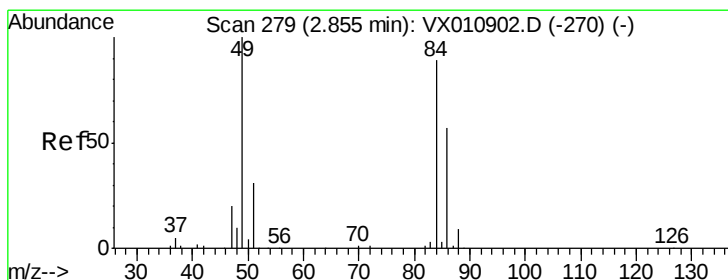
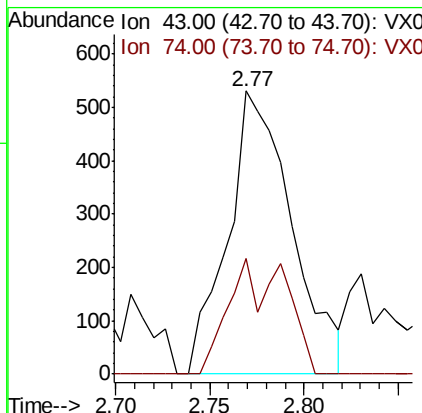
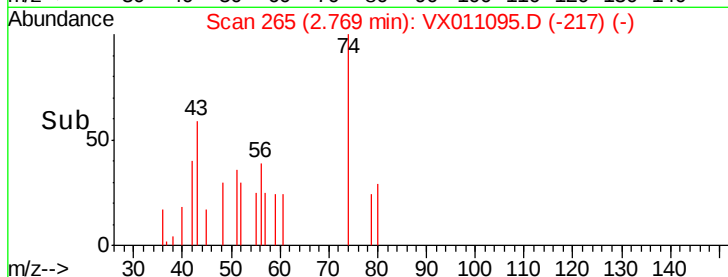
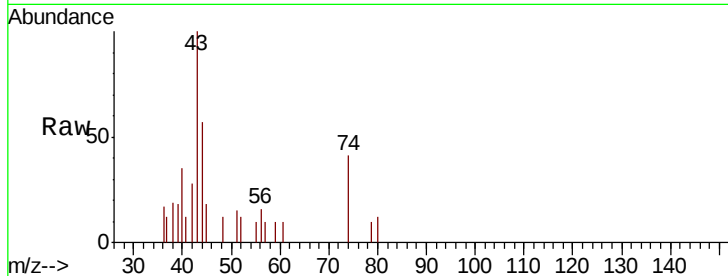




#18
Methyl Acetate
Concen: 0.558 ug/l
RT: 2.77 min Scan# 265
Delta R.T. -0.01 min
Lab File: VX011095.D
Acq: 26 Jul 2019 16:59

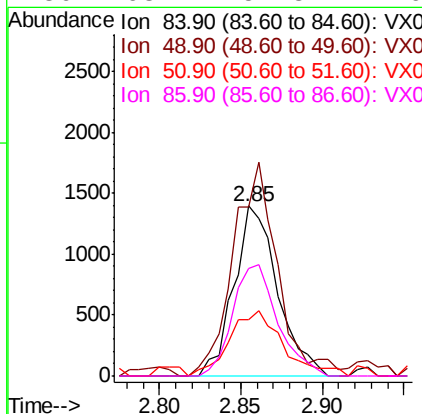
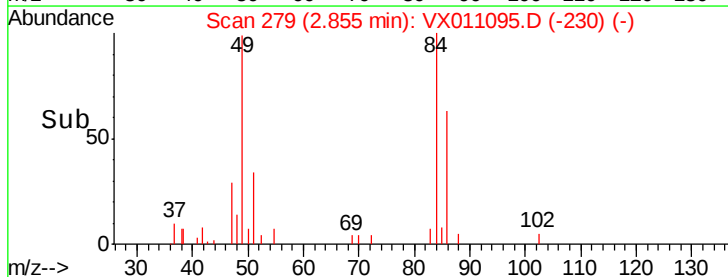
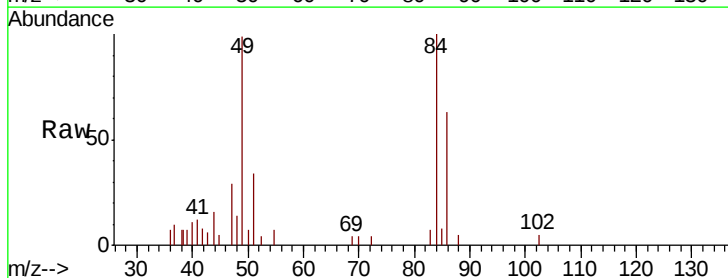
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#01

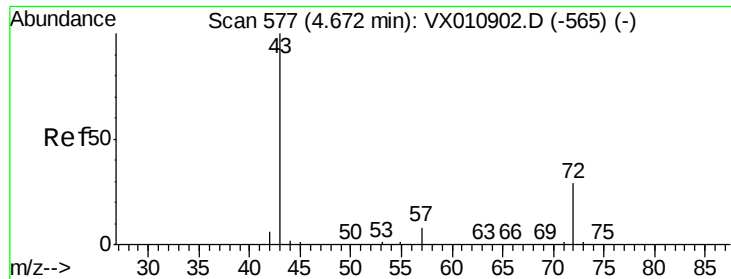
Tot Ion: 43 Resp: 1253
Ion Ratio Lower Upper
43 100
74 18.8 21.5 32.3#



#20
Methylene Chloride
Concen: 1.244 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX011095.D
Acq: 26 Jul 2019 16:59

Tgt Ion: 84 Resp: 2599
Ion Ratio Lower Upper
84 100
49 99.3 89.9 134.9
51 33.5 27.8 41.6
86 63.1 51.8 77.6

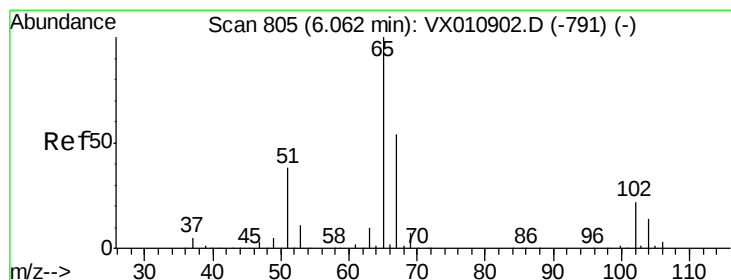
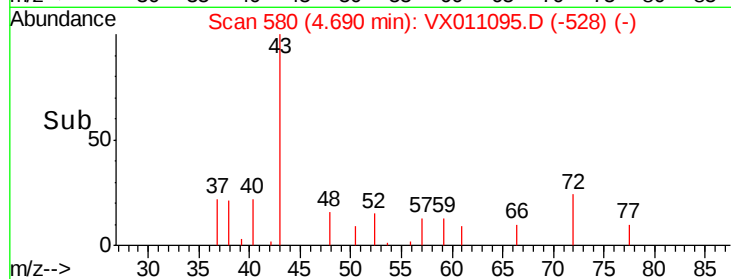
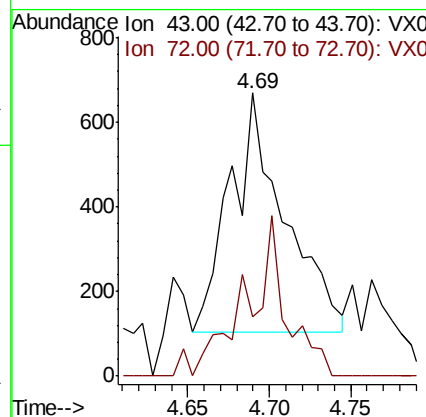
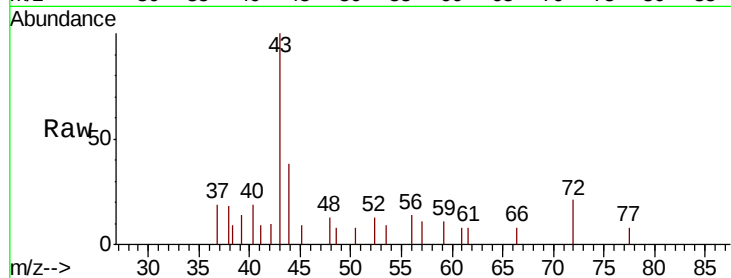




#25
2-Butanone
Concen: 0.933 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX011095.D
Acq: 26 Jul 2019 16:59

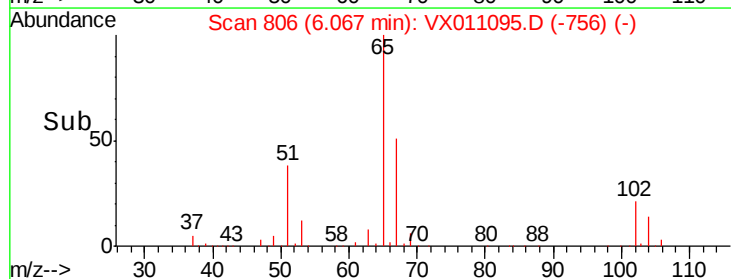
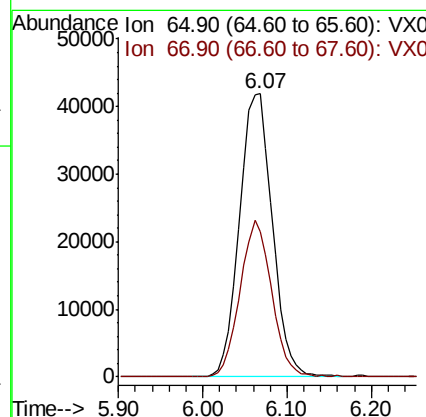
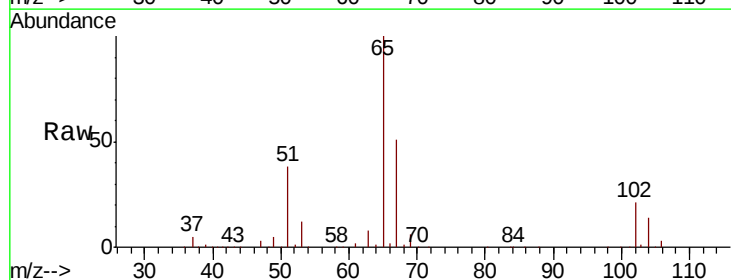
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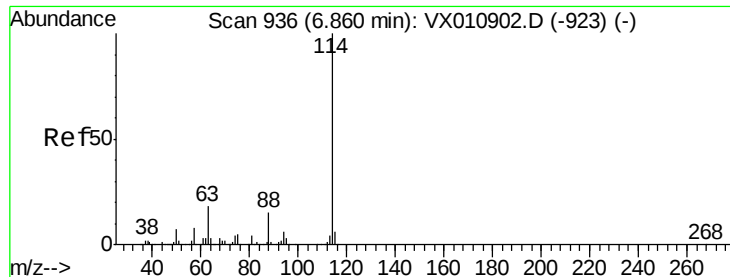
Tot Ion: 43 Resp: 1321
Ion Ratio Lower Upper
43 100
72 24.9 23.0 34.6



#33
1,2-Dichloroethane-d4
Concen: 50.551 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX011095.D
Acq: 26 Jul 2019 16:59

Tgt Ion: 65 Resp: 110381
Ion Ratio Lower Upper
65 100
67 53.3 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: VX011095.D

Acq: 26 Jul 2019 16:59

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#01

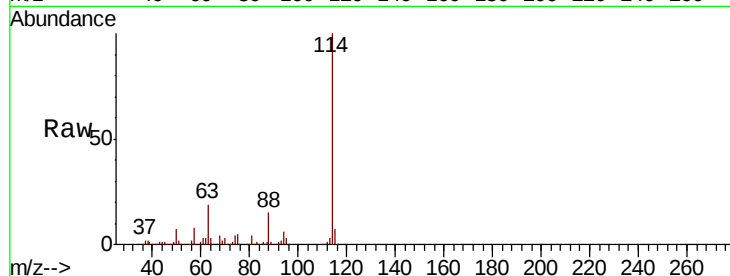
Tot Ion:114 Resp: 324689

Ion Ratio Lower Upper

114 100

63 18.7 0.0 35.6

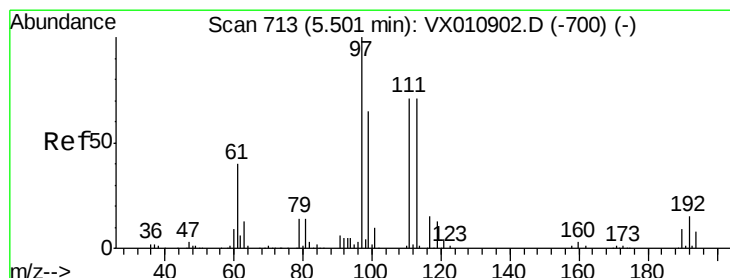
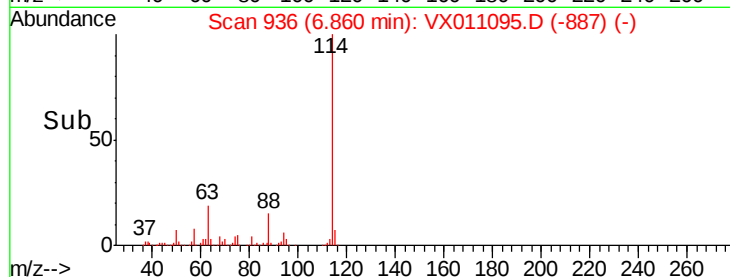
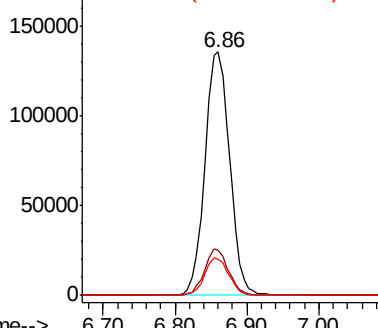
88 14.8 0.0 29.8



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: 49.171 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011095.D

Acq: 26 Jul 2019 16:59

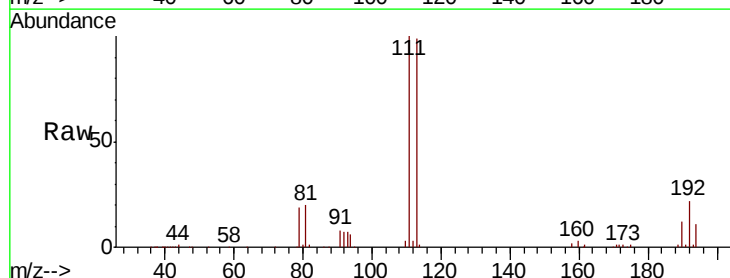
Tgt Ion:113 Resp: 101335

Ion Ratio Lower Upper

113 100

111 102.7 82.3 123.5

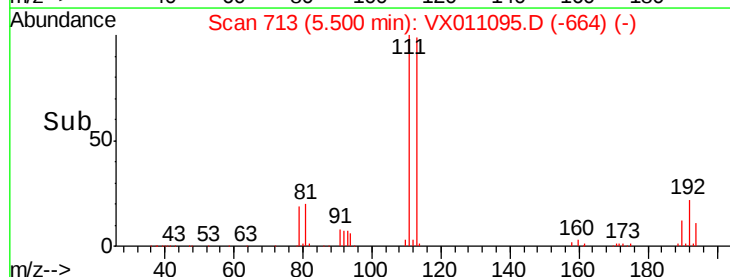
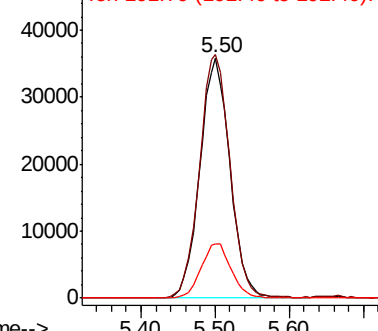
192 22.6 17.4 26.2

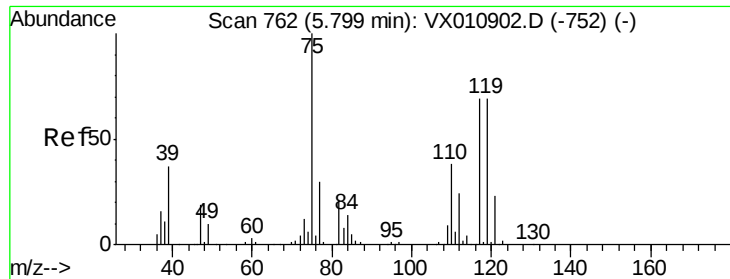


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

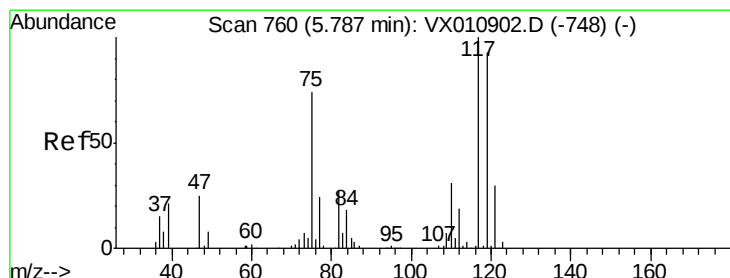
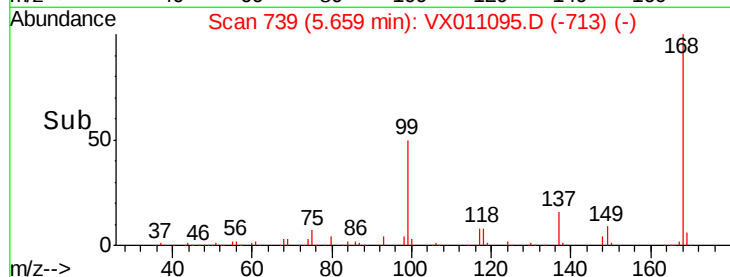
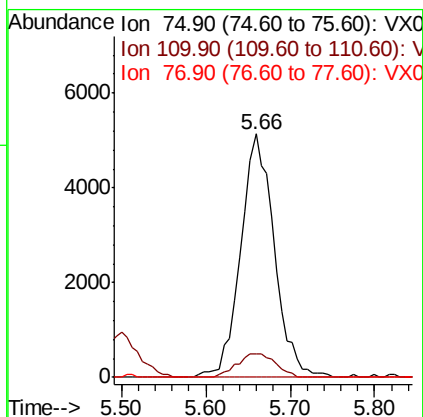
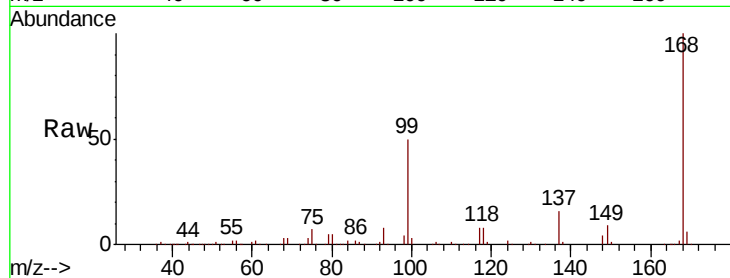




#36
 1,1-Dichloropropene
 Concen: 5.187 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX011095.D
 Acq: 26 Jul 2019 16:59

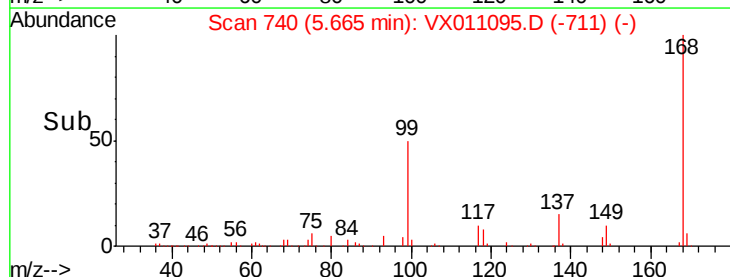
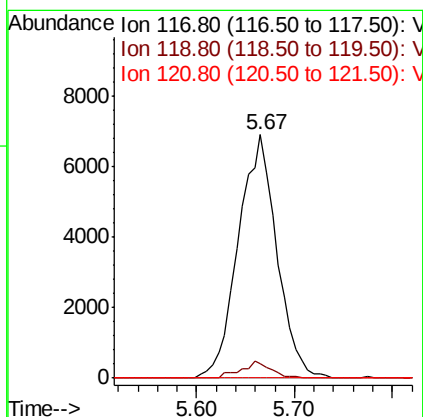
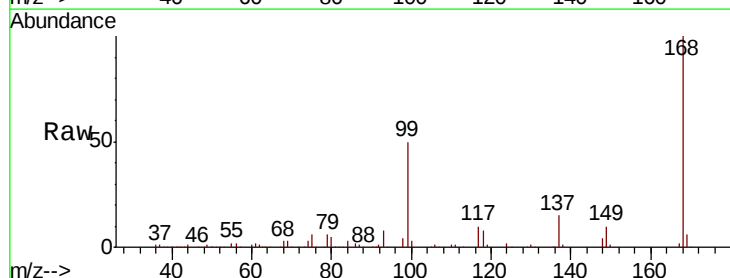
Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#01

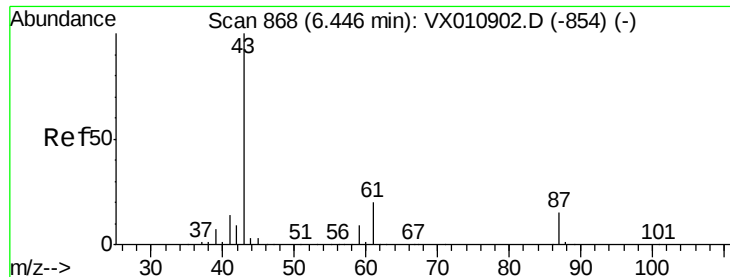
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.2	19.9	59.7#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.784 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX011095.D
 Acq: 26 Jul 2019 16:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.2	74.2	111.2#
121	0.0	24.2	36.2#





#43

Isopropyl Acetate

Concen: 2.690 ug/l

RT: 6.45 min Scan# 868

Delta R.T. -0.00 min

Lab File: VX011095.D

Acq: 26 Jul 2019 16:59

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#01

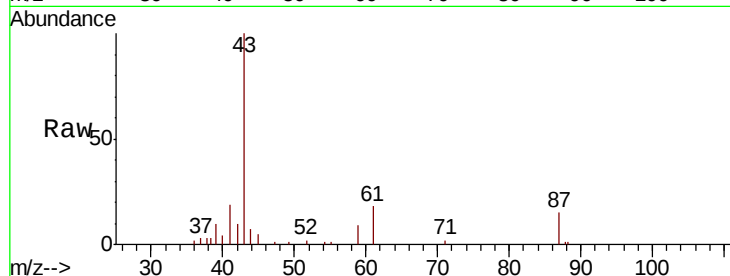
Tot Ion: 43 Resp: 12080

Ion Ratio Lower Upper

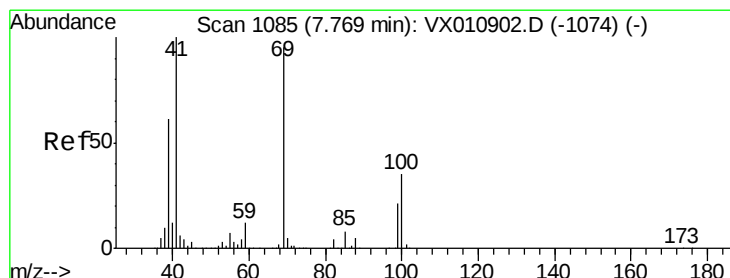
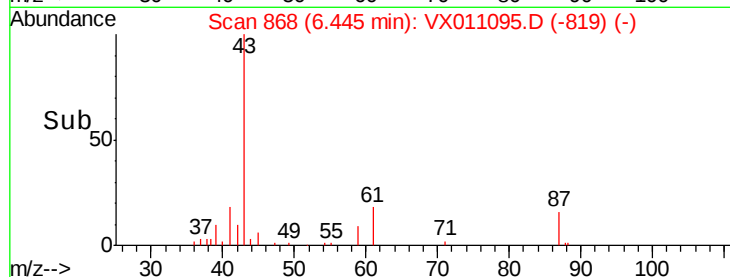
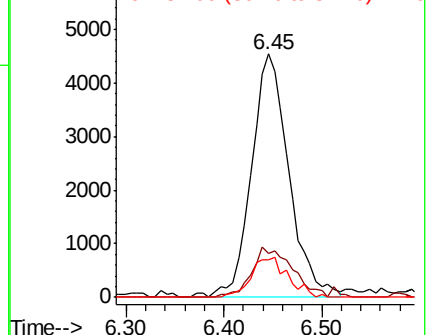
43 100

61 22.3 17.1 25.7

87 16.2 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

Methyl methacrylate

Concen: 2.487 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011095.D

Acq: 26 Jul 2019 16:59

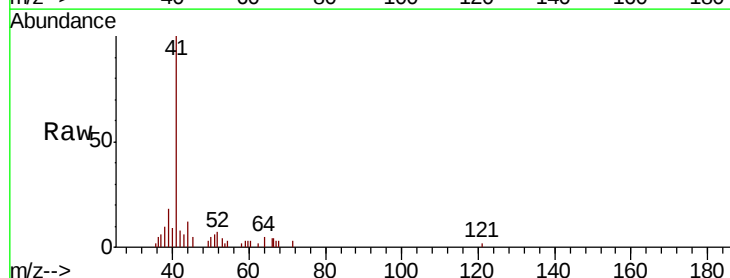
Tgt Ion: 41 Resp: 5441

Ion Ratio Lower Upper

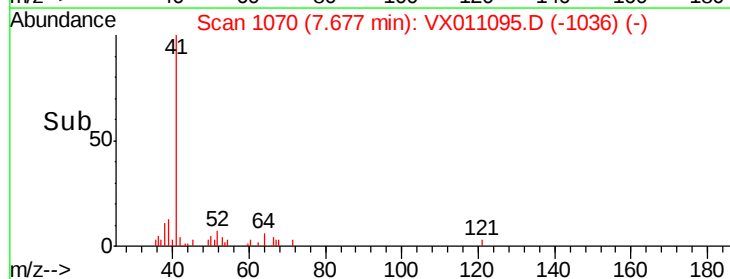
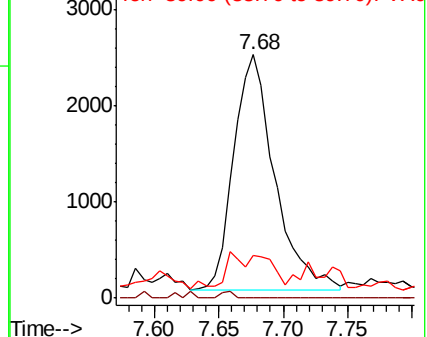
41 100

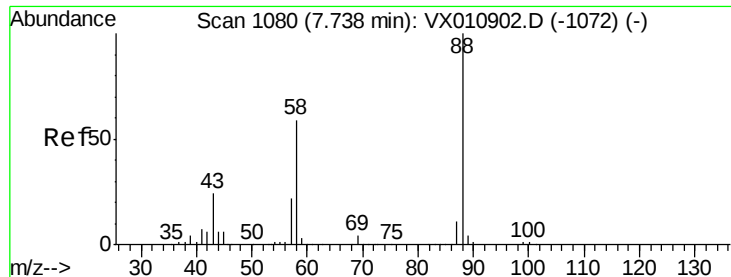
69 0.8 74.4 111.6#

39 0.0 48.9 73.3#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

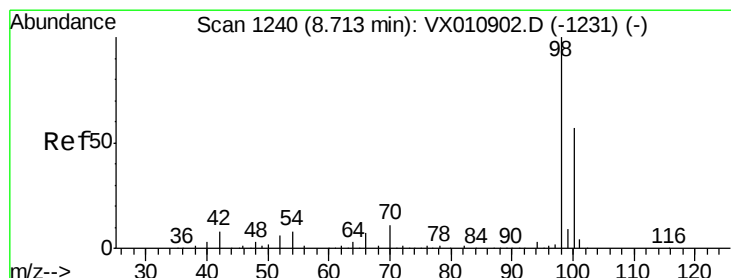
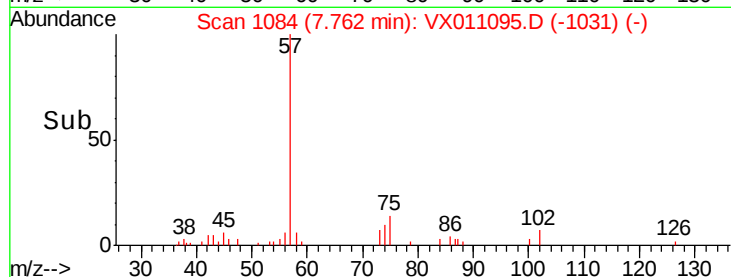
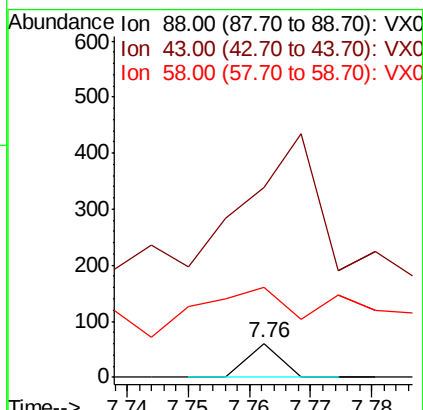
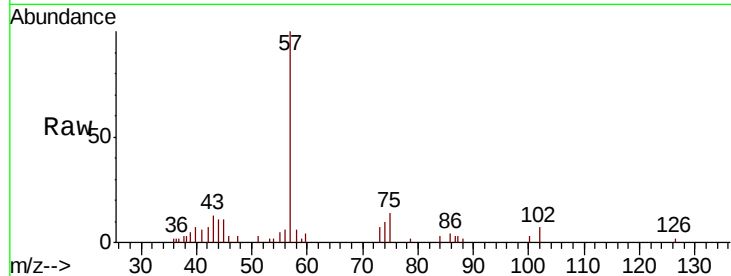




#49
1,4-Dioxane
Concen: 0.360 ug/l
RT: 7.76 min Scan# 1084
Delta R.T. 0.02 min
Lab File: VX011095.D
Acq: 26 Jul 2019 16:59

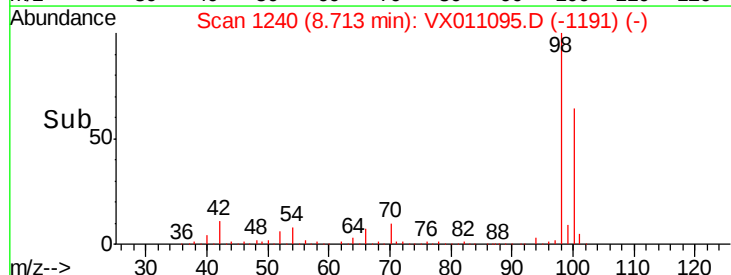
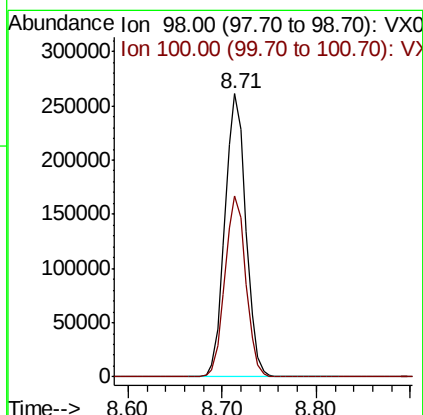
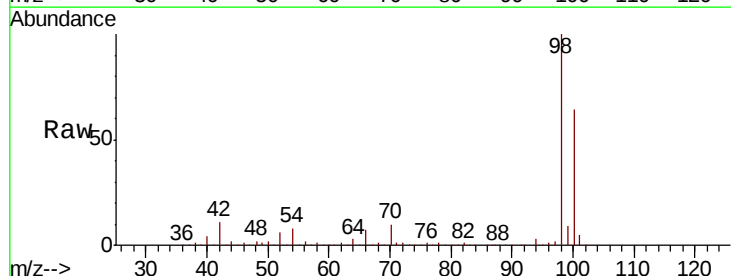
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#01

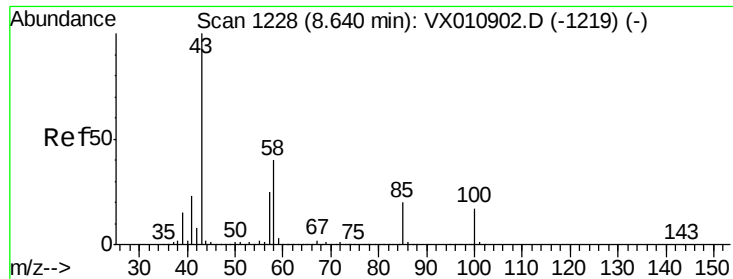
Tot Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 0.0 22.9 34.3#
58 0.0 49.8 74.8#



#50
Toluene-d8
Concen: 52.181 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011095.D
Acq: 26 Jul 2019 16:59

Tgt Ion: 98 Resp: 403338
Ion Ratio Lower Upper
98 100
100 63.8 50.6 75.8

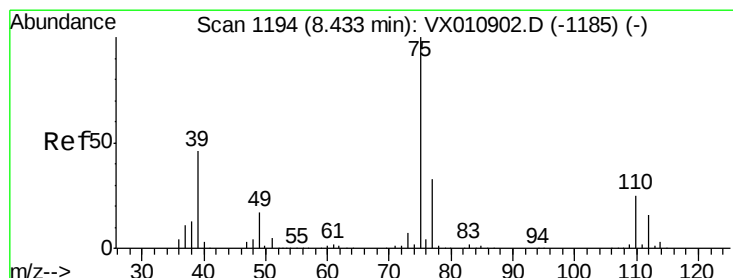
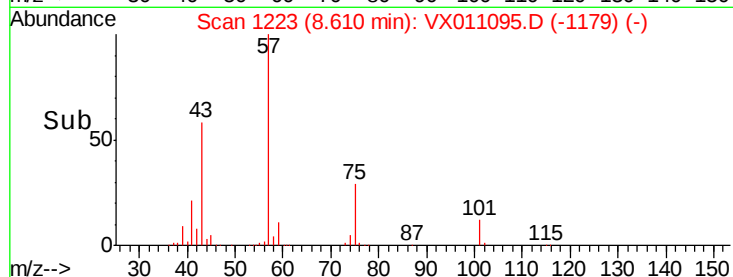
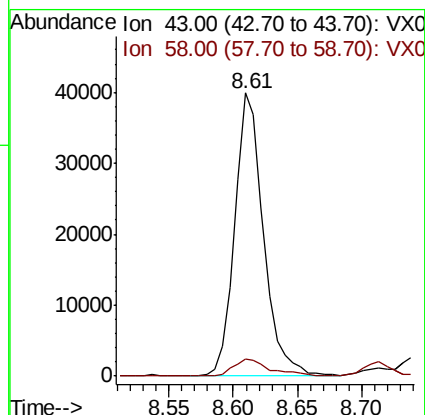
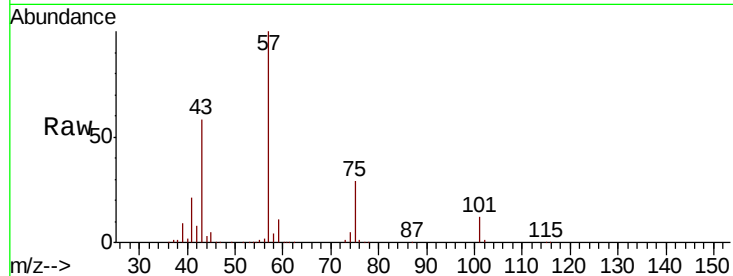




#51
 4-Methyl-2-Pentanone
 Concen: 21.070 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX011095.D
 Acq: 26 Jul 2019 16:59

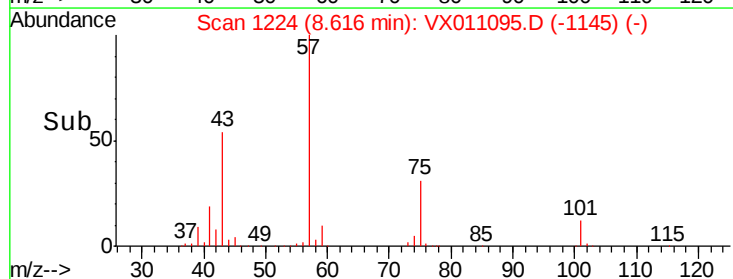
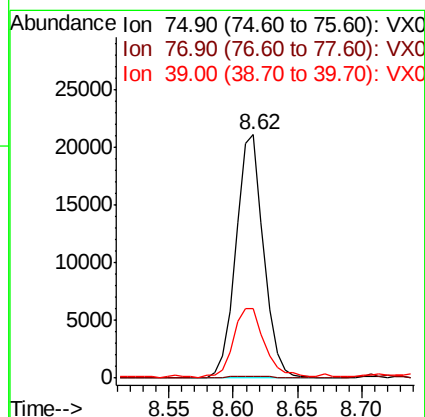
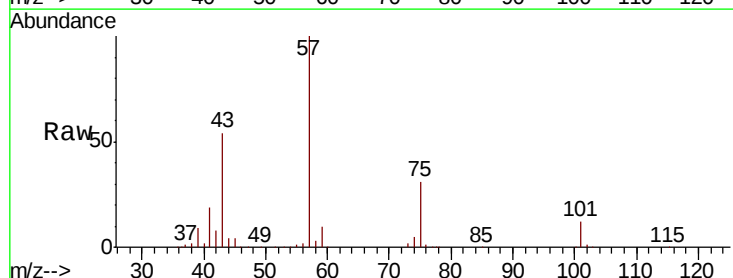
Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#01

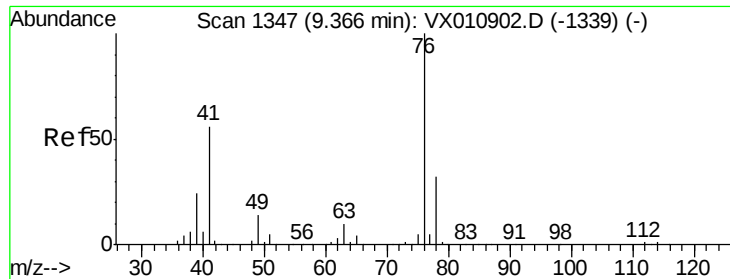
Tot Ion: 43 Resp: 61333
 Ion Ratio Lower Upper
 43 100
 58 8.2 32.2 48.4#



#54
 cis-1,3-Dichloropropene
 Concen: 9.968 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX011095.D
 Acq: 26 Jul 2019 16:59

Tgt Ion: 75 Resp: 31543
 Ion Ratio Lower Upper
 75 100
 77 0.8 26.1 39.1#
 39 28.1 36.6 54.8#





#57

1,3-Dichloropropane

Concen: 2.195 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.18 min

Lab File: VX011095.D

Acq: 26 Jul 2019 16:59

Instrument :

MSVOA_X

ClientSampleId :

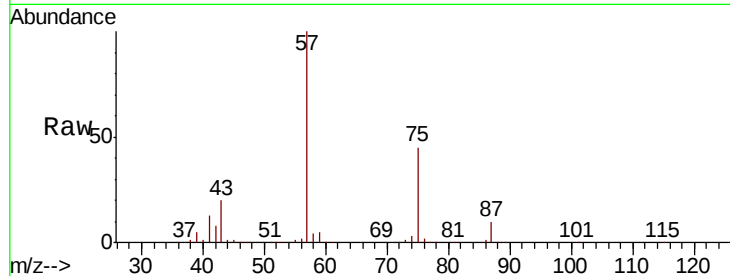
PB121723ZHE#01

Tot Ion: 76 Resp: 7696

Ion Ratio Lower Upper

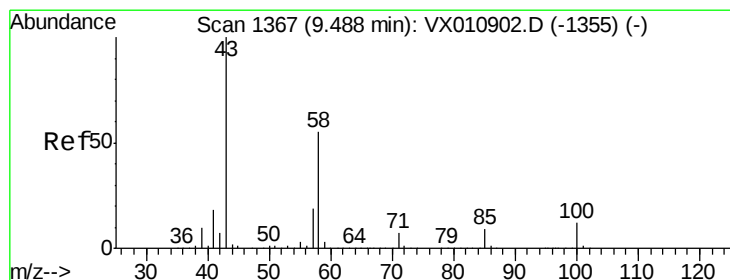
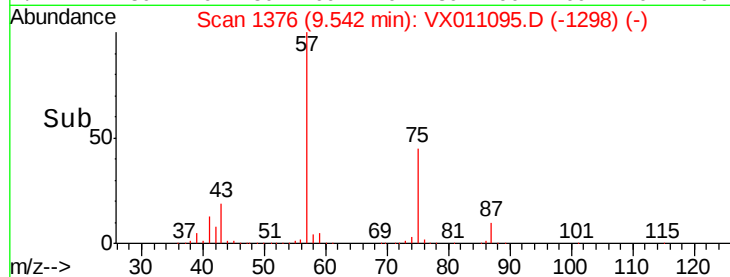
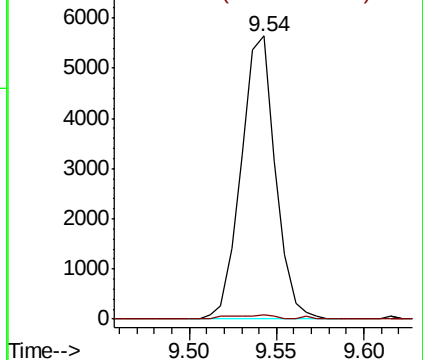
76 100

78 1.9 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 42.710 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX011095.D

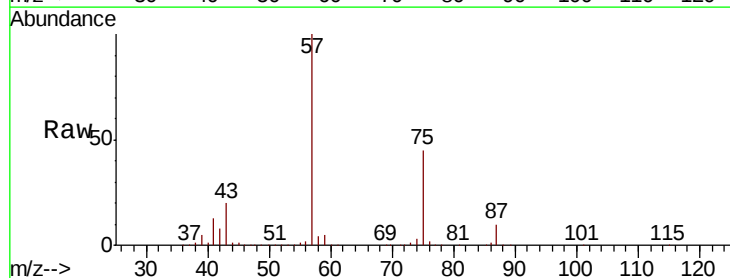
Acq: 26 Jul 2019 16:59

Tgt Ion: 43 Resp: 96428

Ion Ratio Lower Upper

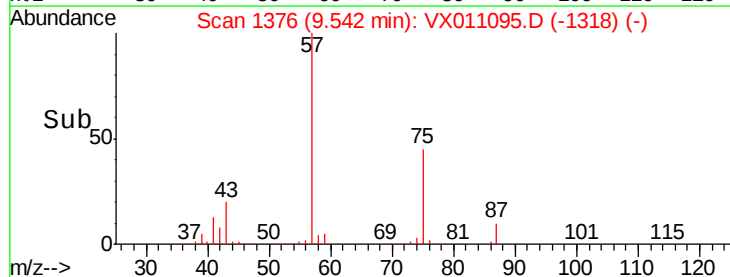
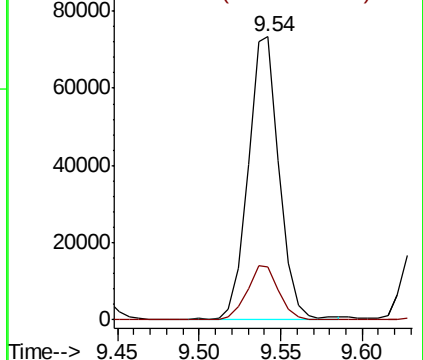
43 100

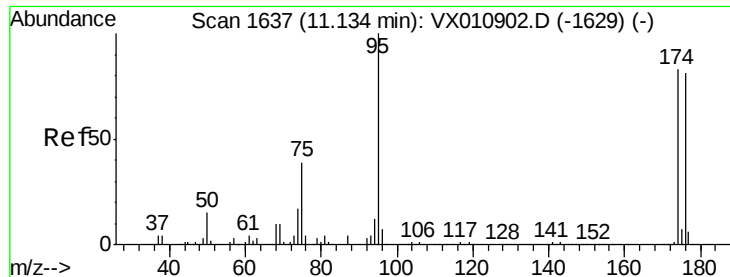
58 20.0 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 50.469 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011095.D

Acq: 26 Jul 2019 16:59

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#01

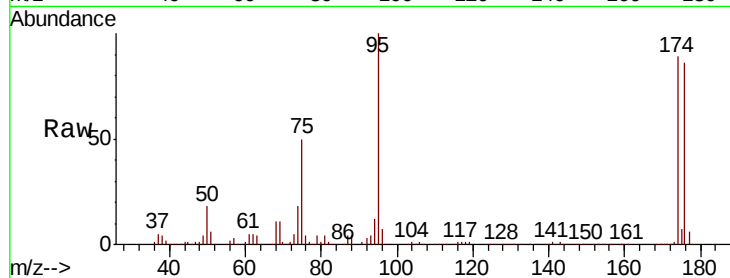
Tot Ion: 95 Resp: 143390

Ion Ratio Lower Upper

95 100

174 92.7 0.0 180.6

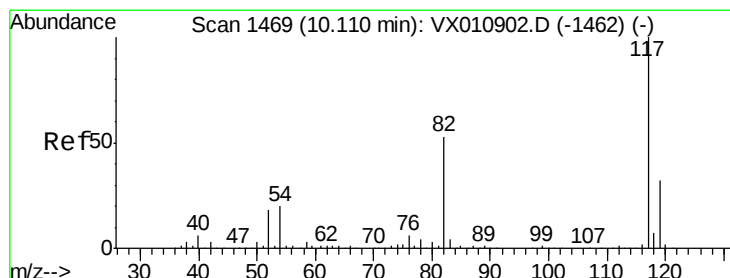
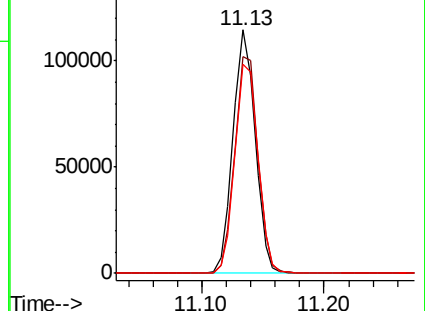
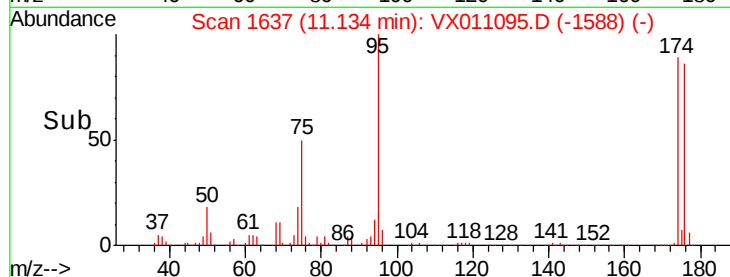
176 89.9 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX011095.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011095.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011095.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011095.D

Acq: 26 Jul 2019 16:59

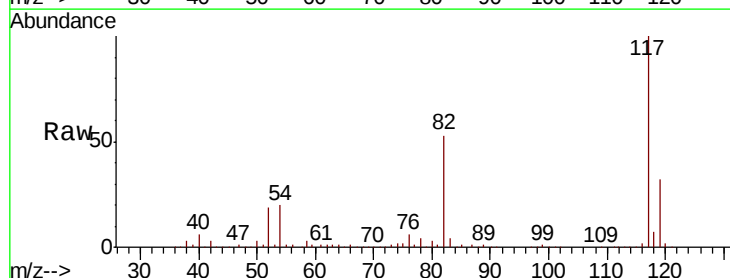
Tgt Ion: 117 Resp: 317243

Ion Ratio Lower Upper

117 100

82 52.7 42.6 63.8

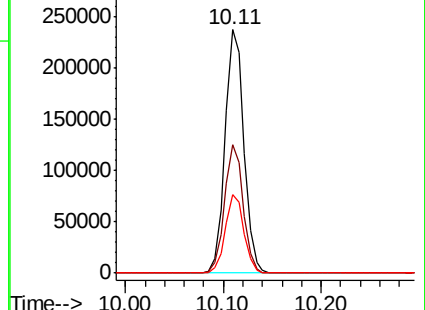
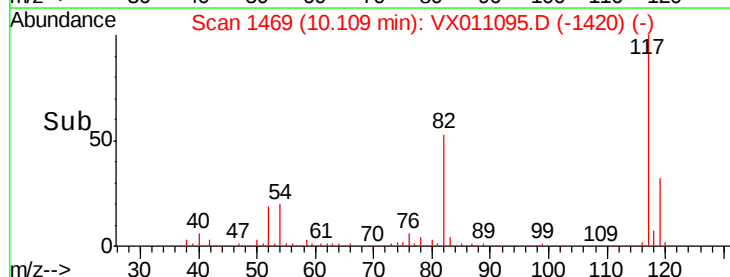
119 32.3 25.9 38.9

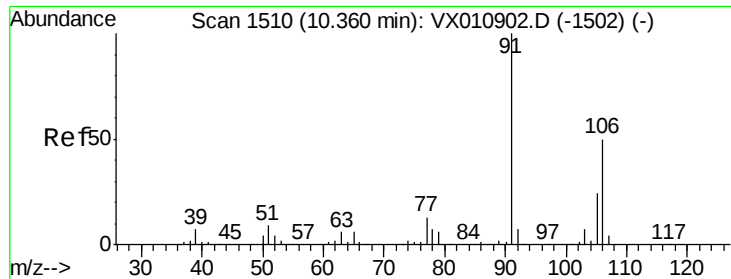


Abundance Ion 116.90 (116.60 to 117.60): VX011095.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011095.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011095.D (-1420) (-)

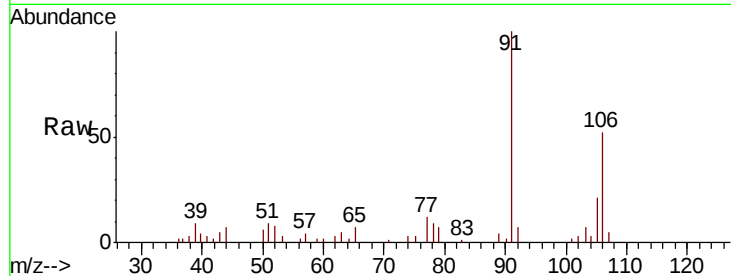




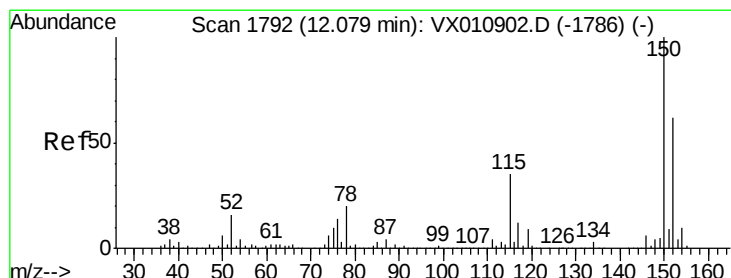
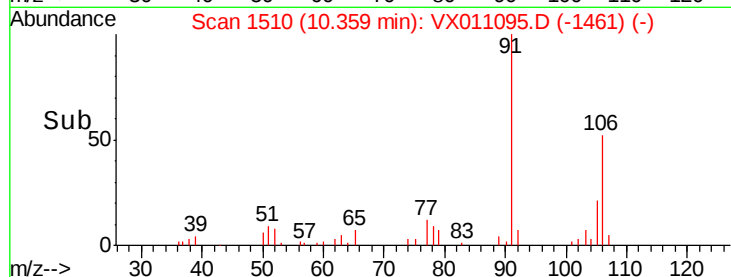
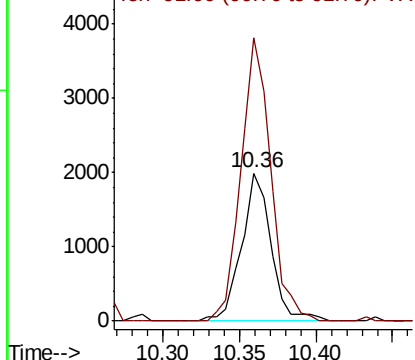
#68
m/p-Xvlenes
Concen: 0.629 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX011095.D
Acq: 26 Jul 2019 16:59

Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#01

Tot Ion:106 Resp: 2676
Ion Ratio Lower Upper
106 100
91 192.1 160.1 240.1

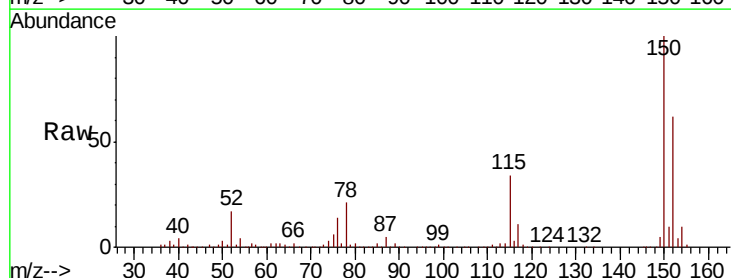


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

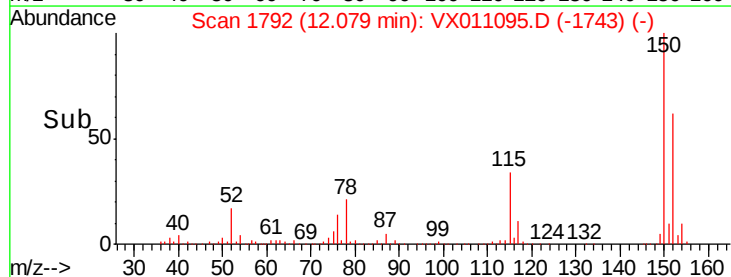
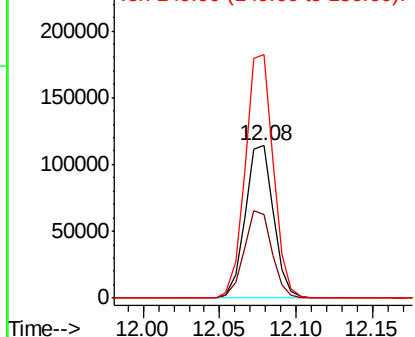


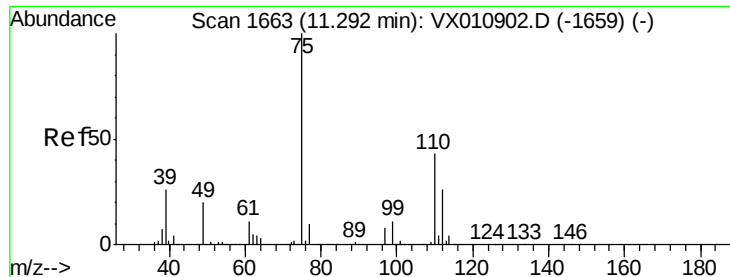
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011095.D
Acq: 26 Jul 2019 16:59

Tgt Ion:152 Resp: 145830
Ion Ratio Lower Upper
152 100
115 56.2 39.7 119.1
150 159.2 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: 26.901 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011095.D

Acq: 26 Jul 2019 16:59

Instrument :

MSVOA_X

ClientSampleId :

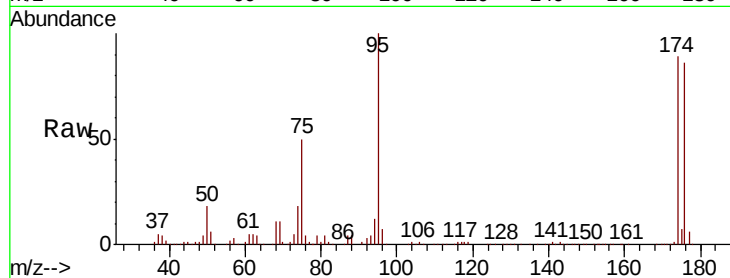
PB121723ZHE#01

Tot Ion: 75 Resp: 70793

Ion Ratio Lower Upper

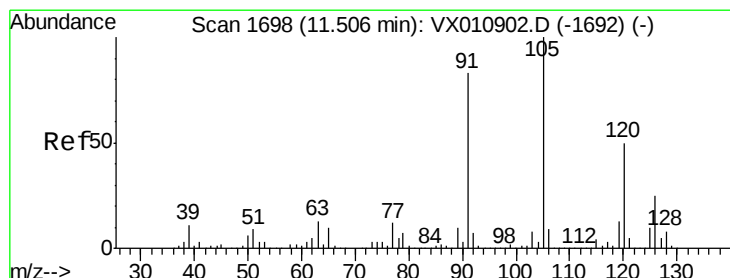
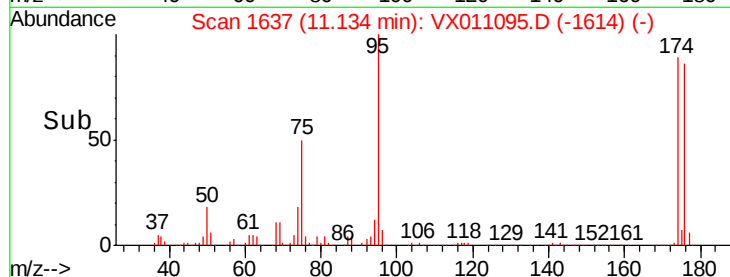
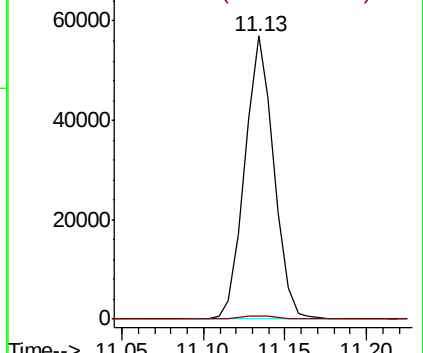
75 100

77 1.3 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#80

1,3,5-Trimethylbenzene

Concen: 0.202 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX011095.D

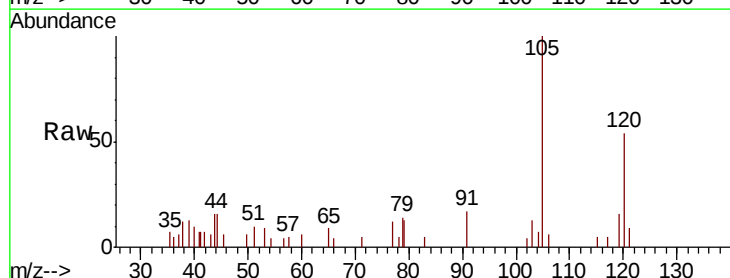
Acq: 26 Jul 2019 16:59

Tgt Ion: 105 Resp: 1661

Ion Ratio Lower Upper

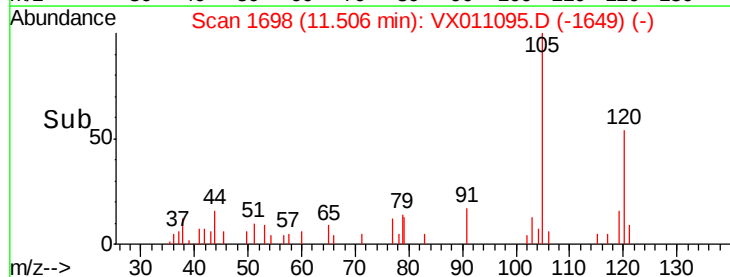
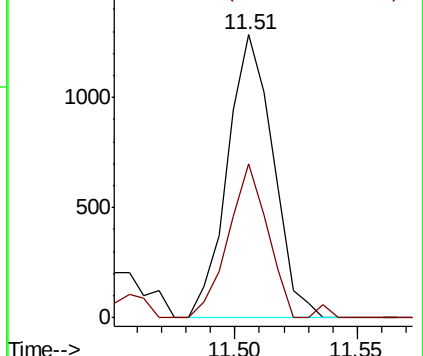
105 100

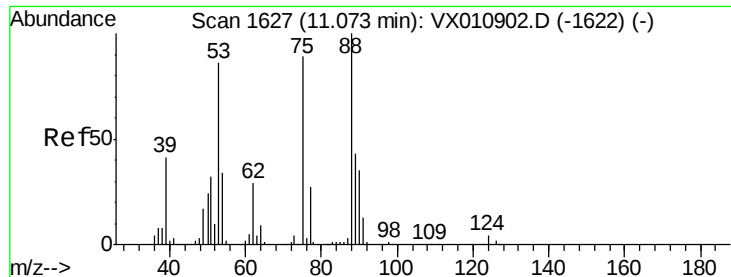
120 46.9 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 66.711 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011095.D

Acq: 26 Jul 2019 16:59

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#01

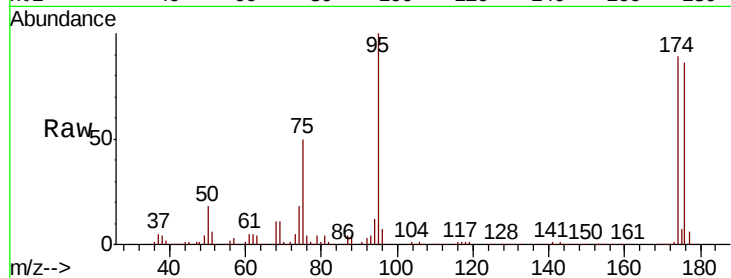
Tot Ion: 75 Resp: 70793

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.0 38.5 57.7#



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

