

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062920\
 Data File : VN062227.D
 Acq On : 30 Jun 2020 8:12
 Operator : JC/MD
 Sample : L3111-09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-6-D

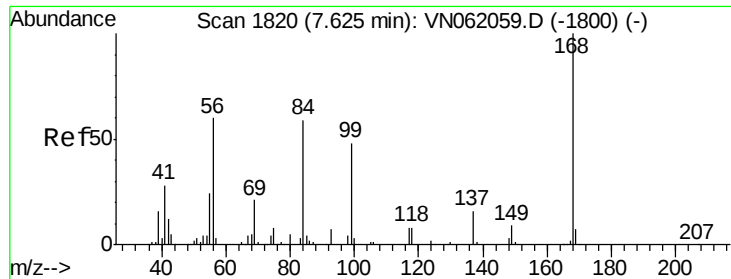
Quant Time: Jun 30 10:08:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	204417	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	417754	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	421376	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	143355	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	162316	56.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.16%	
35) Dibromofluoromethane	7.55	113	132083	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
50) Toluene-d8	10.06	98	551507	51.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.96%	
62) 4-Bromofluorobenzene	12.38	95	174539	48.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	259	Below Cal	#	41
8) Diethyl Ether	3.38	74	1153	0.736	ug/l	58
11) Tert butyl alcohol	4.74	59	104	0.253	ug/l #	72
16) Acetone	3.78	43	20603	19.140	ug/l	98
18) Methyl Acetate	4.28	43	5183	2.273	ug/l #	88
20) Methylene Chloride	4.51	84	30076	11.253	ug/l	95
25) 2-Butanone	6.80	43	3645	2.600	ug/l #	79
29) Tetrahydrofuran	7.16	42	259	0.282	ug/l #	87
31) Cyclohexane	7.63	56	4989	1.259	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	18718	4.458	ug/l #	47
37) Ethyl Acetate	6.80	43	3645	1.048	ug/l #	66
38) Carbon Tetrachloride	7.63	117	21017	5.309	ug/l #	16
43) Isopropyl Acetate	8.13	43	52261	9.220	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1508	0.478	ug/l #	43
48) Methyl methacrylate	9.15	41	3502	1.378	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	6867	2.074	ug/l	94
54) cis-1,3-Dichloropropene	9.88	75	25389	5.015	ug/l #	69
56) Ethyl methacrylate	10.51	69	1290	0.315	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	4931	0.933	ug/l #	42
59) 2-Hexanone	10.73	43	60226	25.185	ug/l #	50
71) Bromoform	12.38	173	1517	0.667	ug/l #	1
74) N-amyl acetate	12.00	43	2101	3.823	ug/l #	43
76) 1,2,3-Trichloropropane	12.38	75	89405	26.493	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	89405	77.369	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062227.D

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Instrument :

MSVOA_N

ClientSampled :

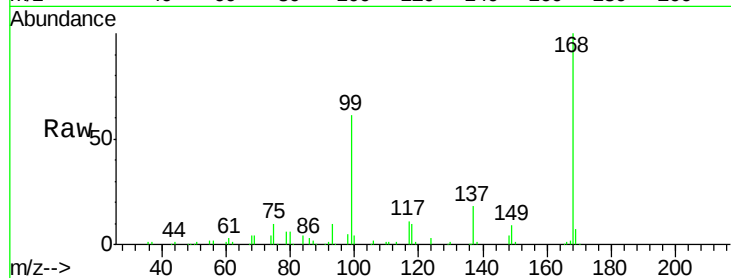
TP-6-D

Tgt Ion:168 Resp: 204417

Ion Ratio Lower Upper

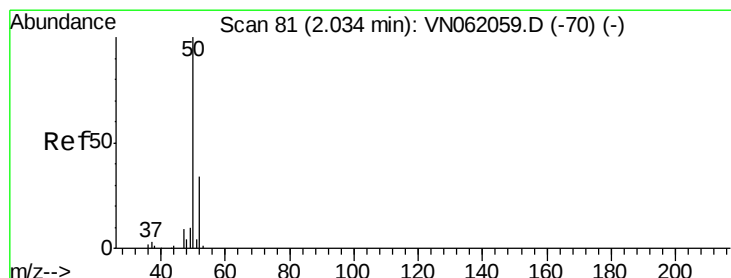
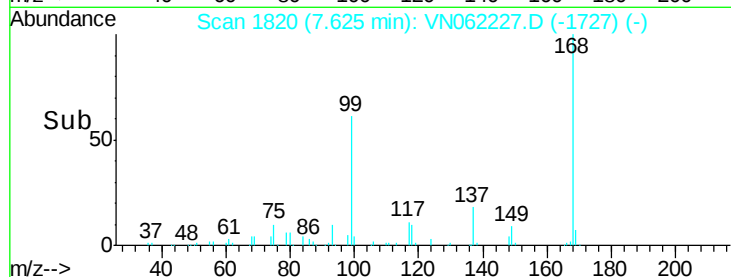
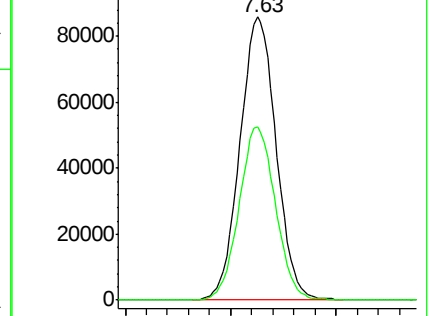
168 100

99 61.2 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062227.D

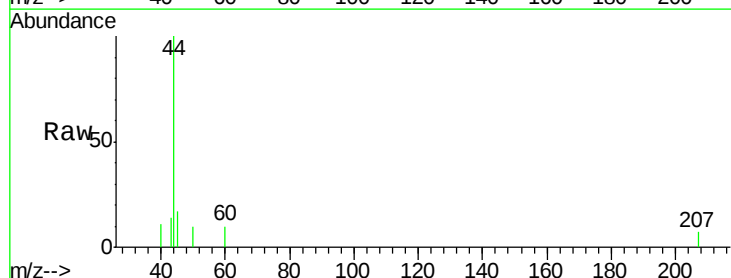
Acq: 30 Jun 2020 8:12

Tgt Ion: 50 Resp: 259

Ion Ratio Lower Upper

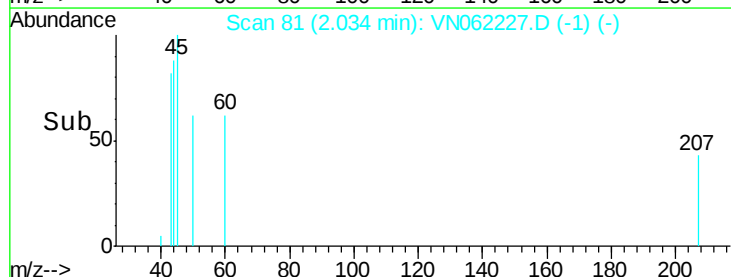
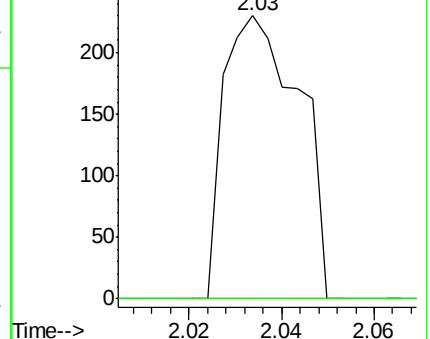
50 100

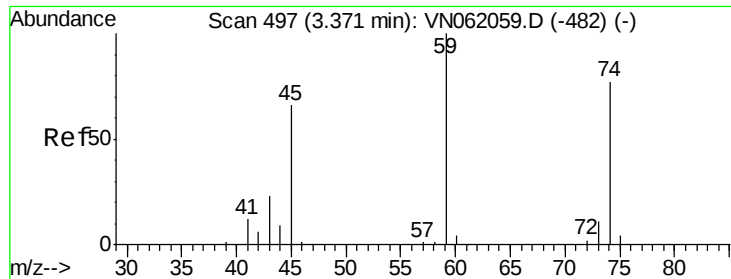
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

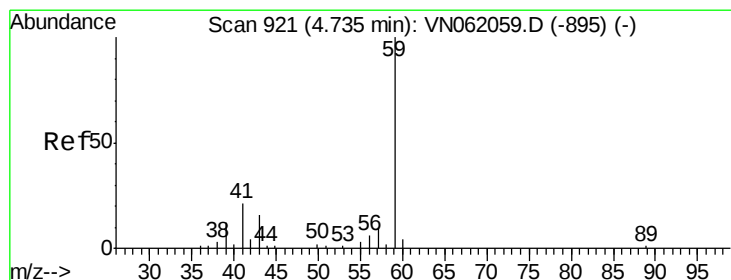
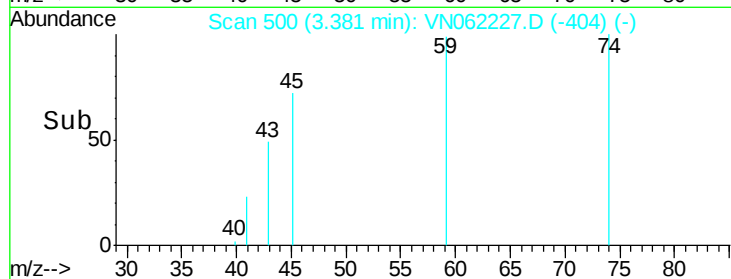
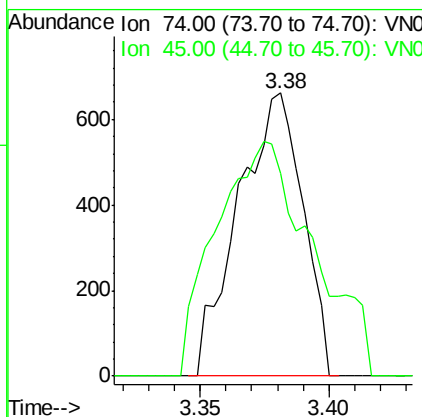
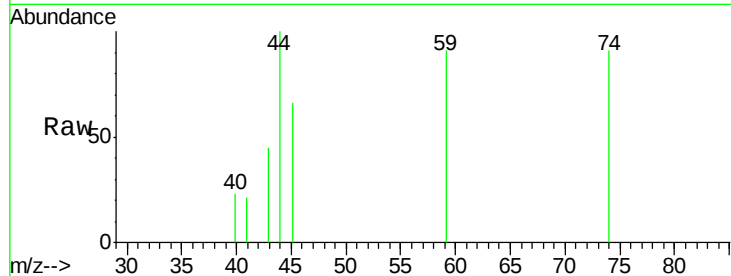




#8
 Diethyl Ether
 Concen: 0.736 ug/l
 RT: 3.38 min Scan# 500
 Delta R.T. 0.01 min
 Lab File: VN062227.D
 Acq: 30 Jun 2020 8:12

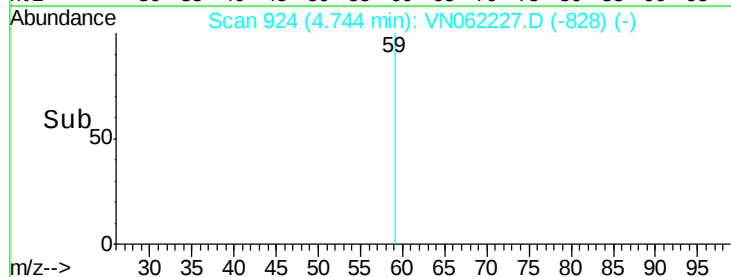
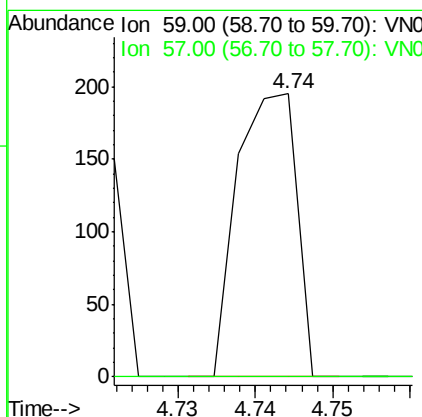
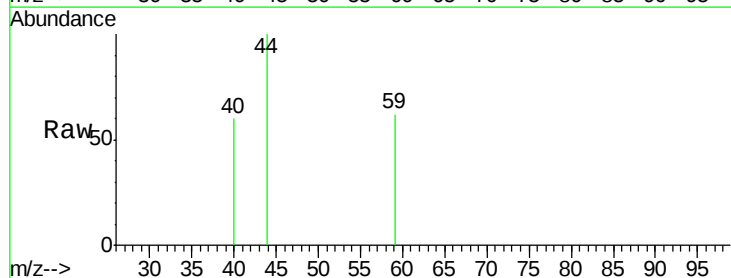
Instrument :
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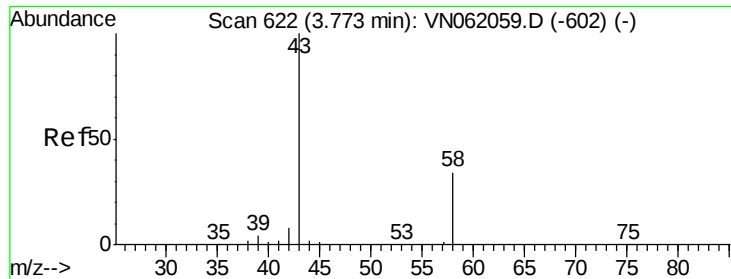
Tgt Ion: 74 Resp: 1153
 Ion Ratio Lower Upper
 74 100
 45 123.6 42.5 127.5



#11
 Tert butyl alcohol
 Concen: 0.253 ug/l
 RT: 4.74 min Scan# 924
 Delta R.T. 0.01 min
 Lab File: VN062227.D
 Acq: 30 Jun 2020 8:12

Tgt Ion: 59 Resp: 104
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#





#16

Acetone

Concen: 19.140 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062227.D

Acq: 30 Jun 2020 8:12

Instrument :

MSVOA_N

ClientSampled :

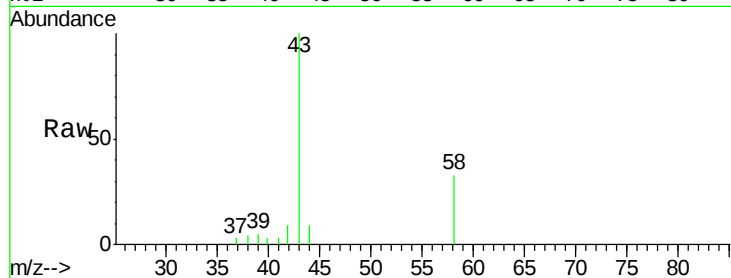
TP-6-D

Tgt Ion: 43 Resp: 20603

Ion Ratio Lower Upper

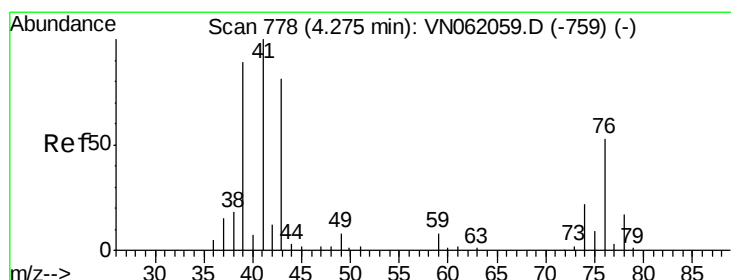
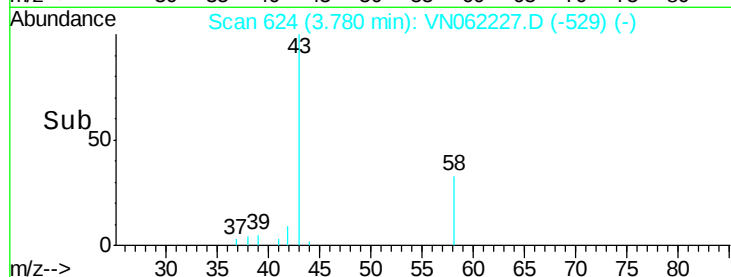
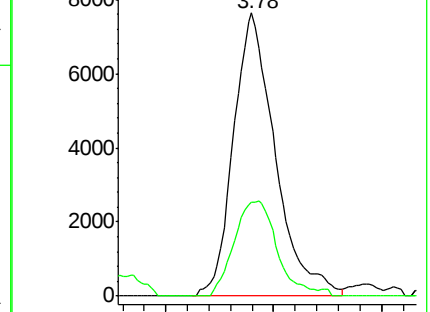
43 100

58 33.2 27.5 41.3



Abundance Ion 43.00 (42.70 to 43.70): VN062227.D (-529) (-)

Ion 58.00 (57.70 to 58.70): VN062227.D (-529) (-)



#18

Methyl Acetate

Concen: 2.273 ug/l

RT: 4.28 min Scan# 781

Delta R.T. 0.01 min

Lab File: VN062227.D

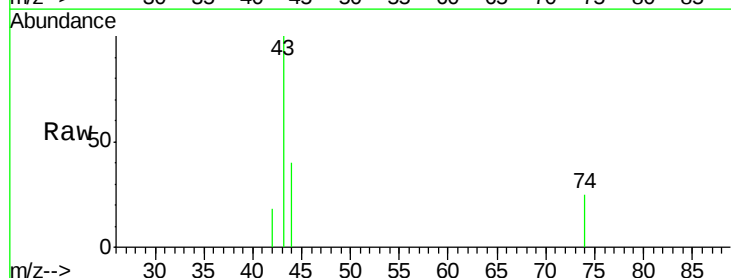
Acq: 30 Jun 2020 8:12

Tgt Ion: 43 Resp: 5183

Ion Ratio Lower Upper

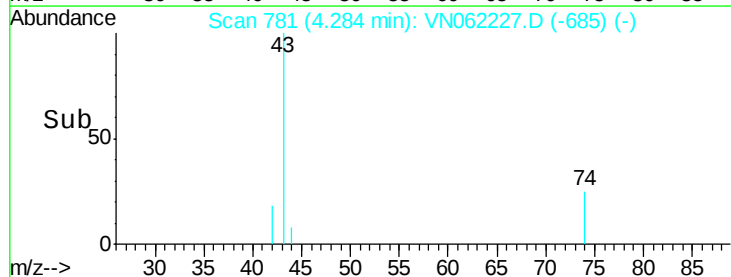
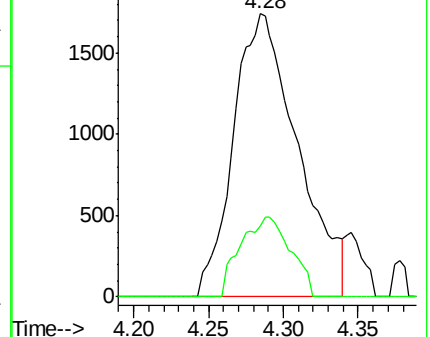
43 100

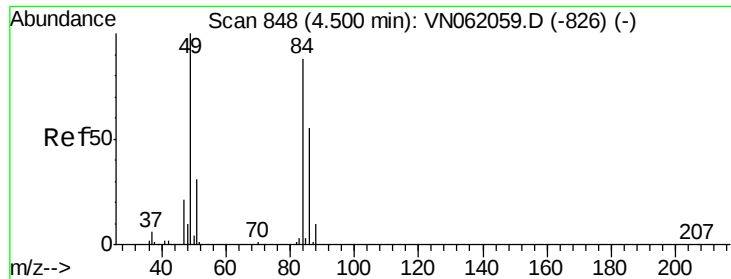
74 22.3 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VN062227.D (-685) (-)

Ion 74.00 (73.70 to 74.70): VN062227.D (-685) (-)

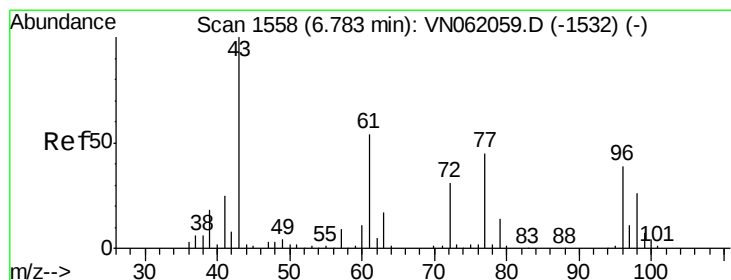
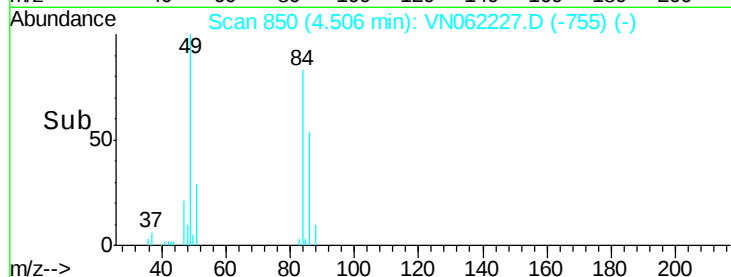
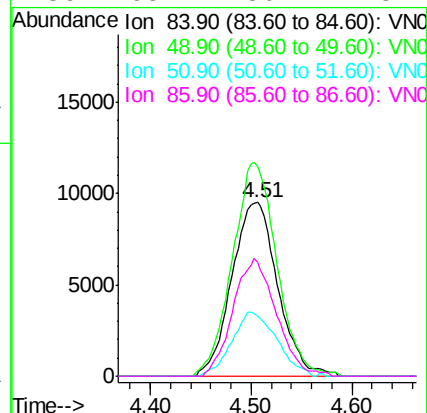
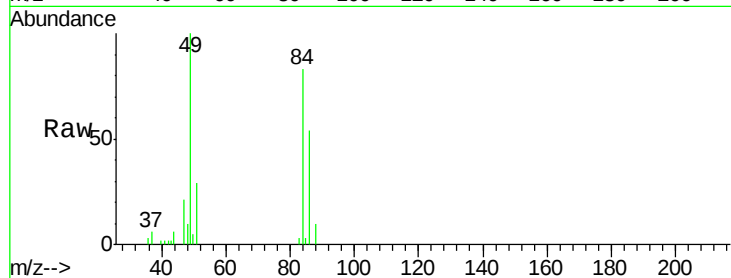




#20
Methylene Chloride
Concen: 11.253 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN062227.D
Acq: 30 Jun 2020 8:12

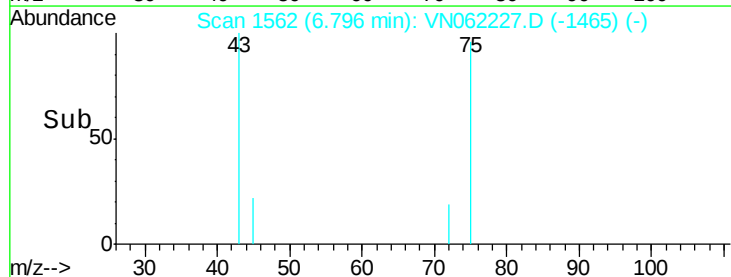
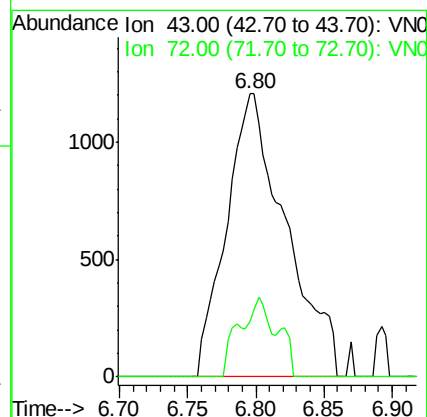
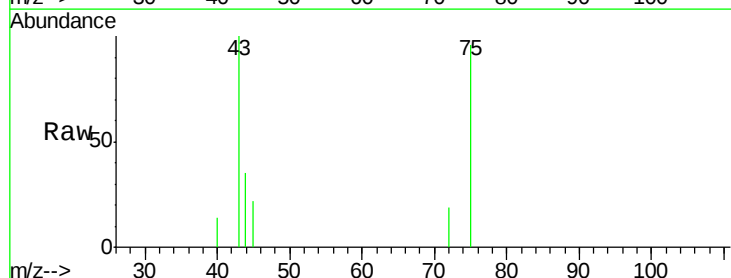
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MSVOA_N
ClientSampled :
TP-6-D

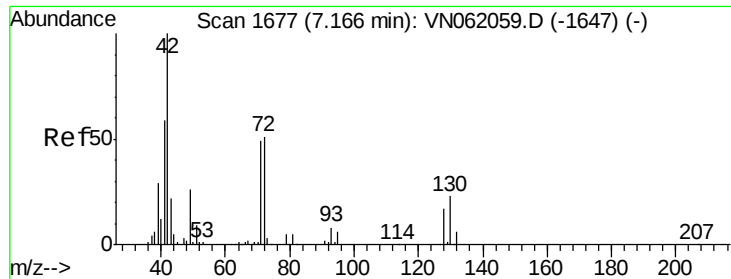
Tgt Ion:	84	Resp:	30076
Ion	Ratio	Lower	Upper
84	100		
49	120.9	90.6	136.0
51	34.5	27.8	41.8
86	65.7	50.1	75.1



#25
2-Butanone
Concen: 2.600 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062227.D
Acq: 30 Jun 2020 8:12

Tgt Ion:	43	Resp:	3645
Ion	Ratio	Lower	Upper
43	100		
72	19.5	24.8	37.2#

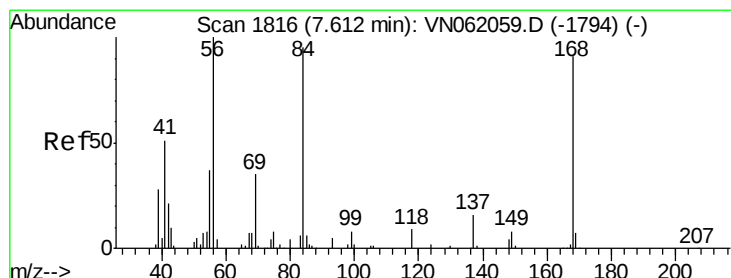
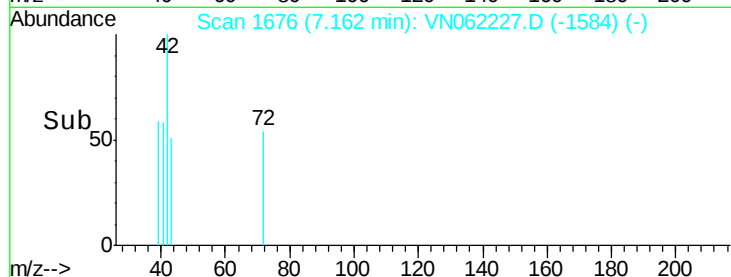
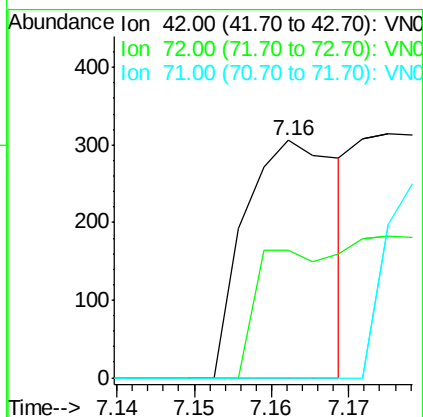
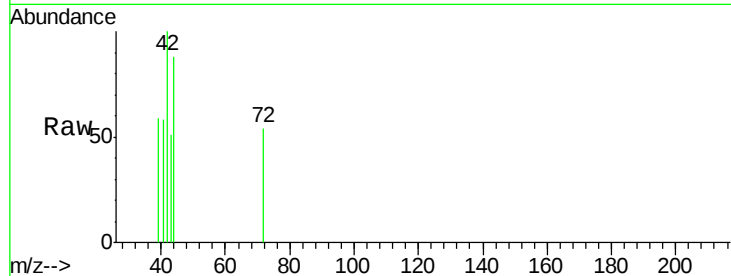




#29
Tetrahydrofuran
Concen: 0.282 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. -0.00 min
Lab File: VN062227.D
Acq: 30 Jun 2020 8:12

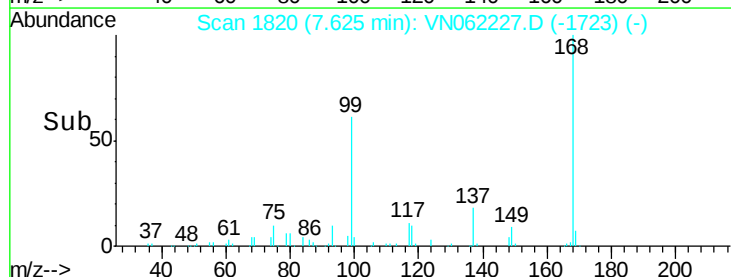
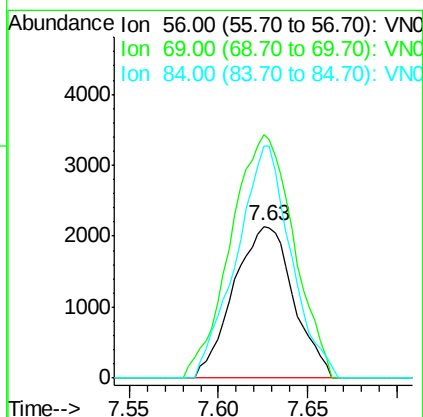
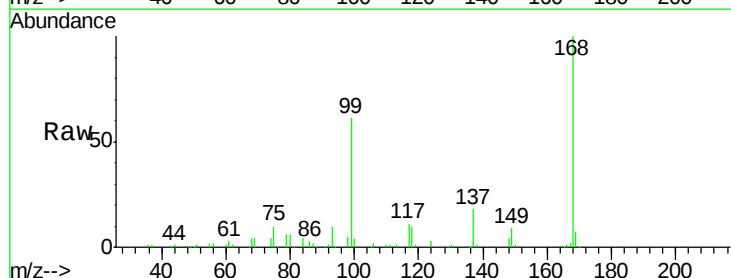
Instrument :
MSVOA_N
ClientSampled :
TP-6-D

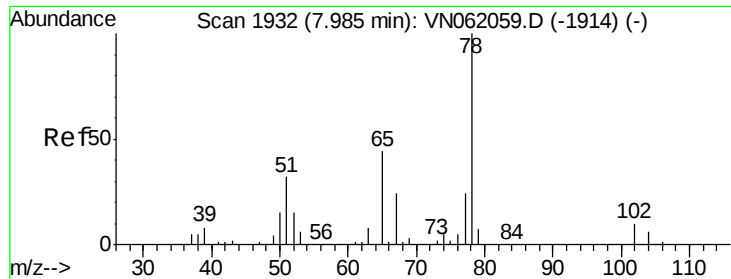
Tgt Ion: 42 Resp: 259
Ion Ratio Lower Upper
42 100
72 35.5 41.1 61.7#
71 49.8 38.2 57.4



#31
Cyclohexane
Concen: 1.259 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062227.D
Acq: 30 Jun 2020 8:12

Tgt Ion: 56 Resp: 4989
Ion Ratio Lower Upper
56 100
69 160.7 28.0 42.0#
84 153.0 76.1 114.1#

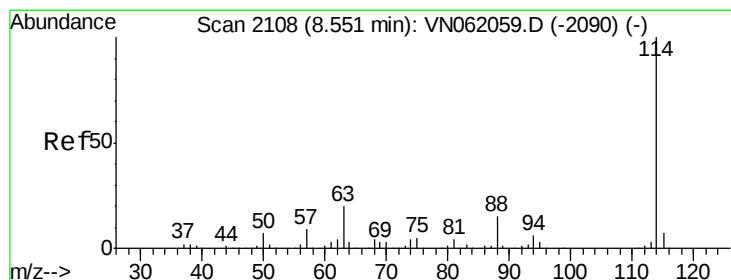
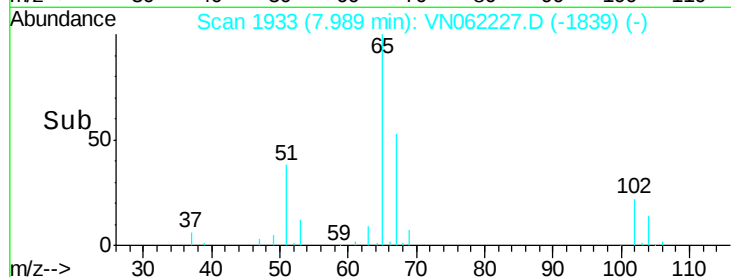
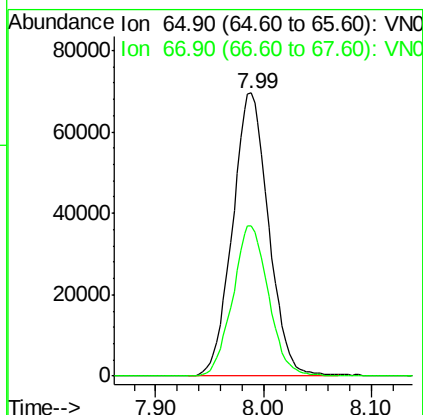
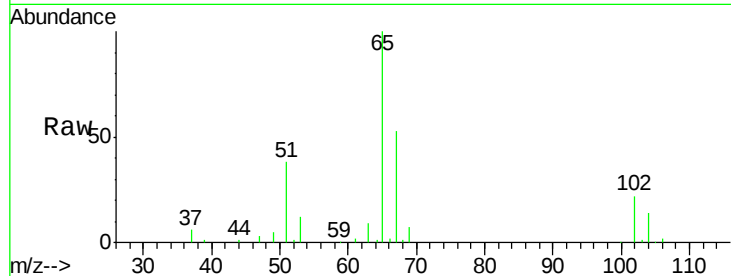




#33
 1,2-Dichloroethane-d4
 Concen: 56.583 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062227.D
 Acq: 30 Jun 2020 8:12

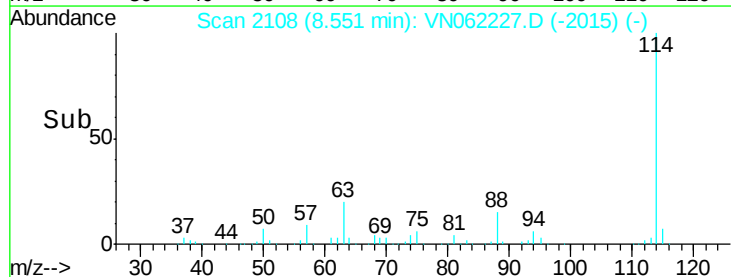
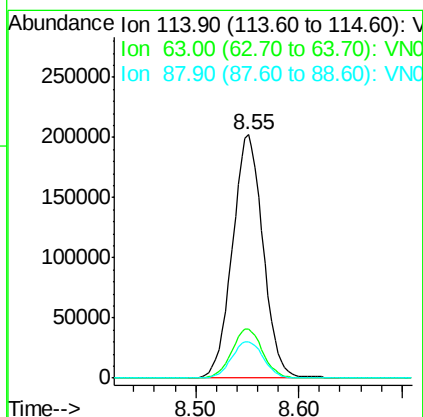
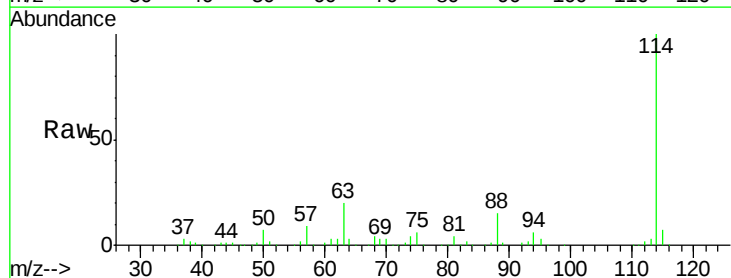
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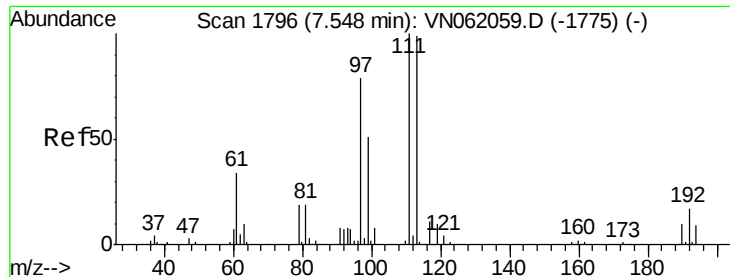
Tgt Ion: 65 Resp: 162316
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062227.D
 Acq: 30 Jun 2020 8:12

Tgt Ion: 114 Resp: 417754
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 39.2
 88 15.1 0.0 30.8

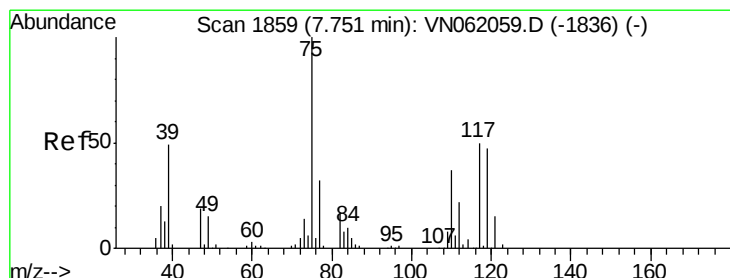
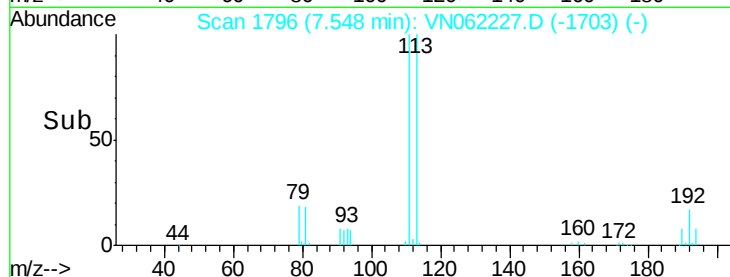
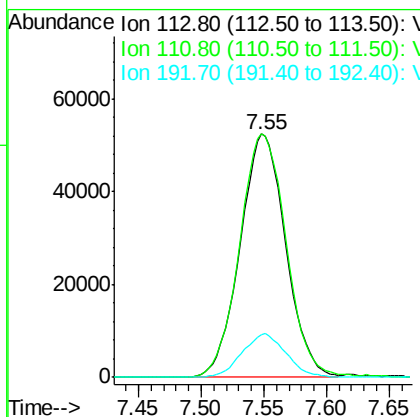
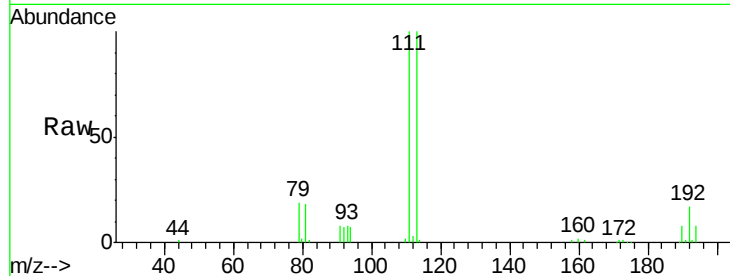




#35
 Dibromofluoromethane
 Concen: 49.283 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062227.D
 Acq: 30 Jun 2020 8:12

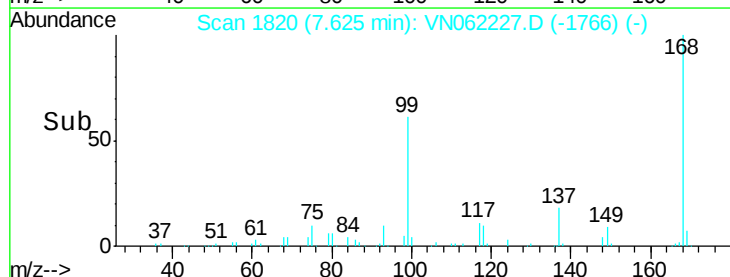
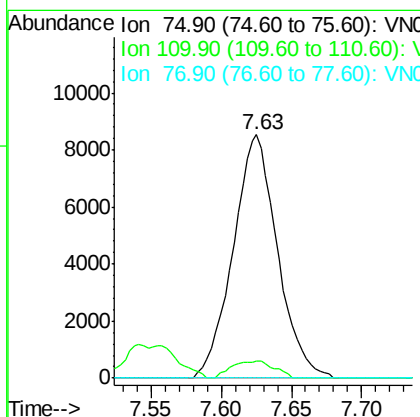
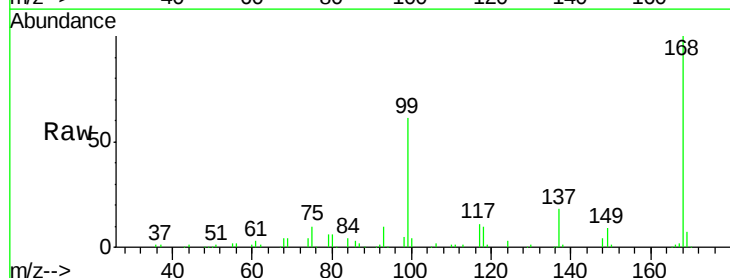
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 TP-6-D

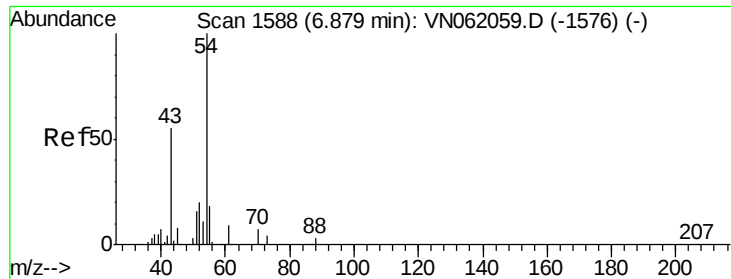
Tgt Ion:113 Resp: 132083
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.2 123.4
 192 17.3 14.0 21.0



#36
 1,1-Dichloropropene
 Concen: 4.458 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062227.D
 Acq: 30 Jun 2020 8:12

Tgt Ion: 75 Resp: 18718
 Ion Ratio Lower Upper
 75 100
 110 6.8 17.9 53.8#
 77 0.0 24.9 37.3#

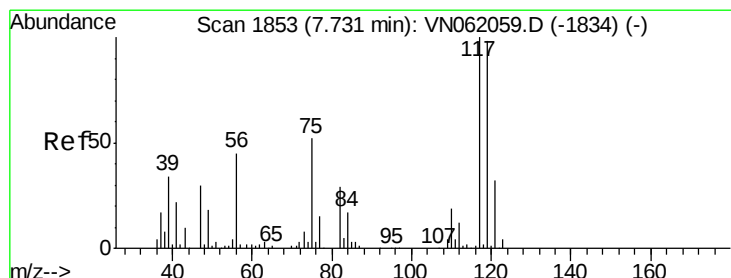
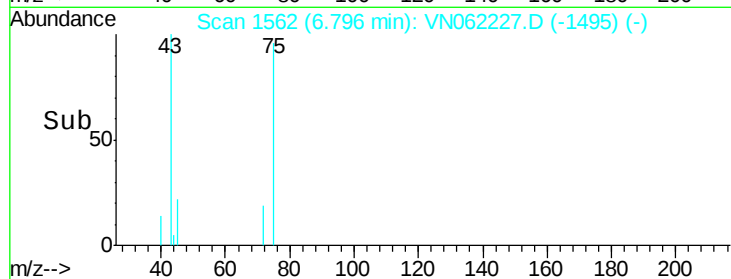
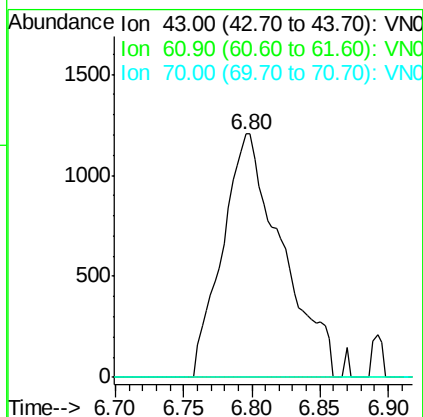
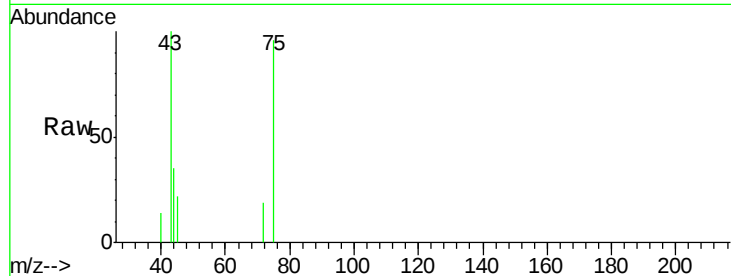




#37
 Ethyl Acetate
 Concen: 1.048 ug/l
 RT: 6.80 min Scan# 1562
 Delta R.T. -0.08 min
 Lab File: VN062227.D
 Acq: 30 Jun 2020 8:12

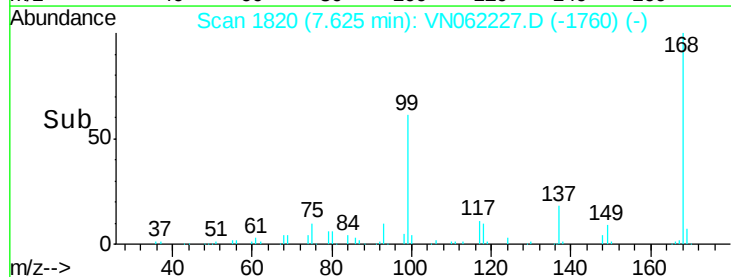
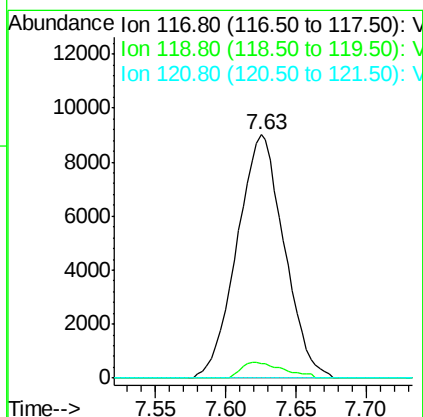
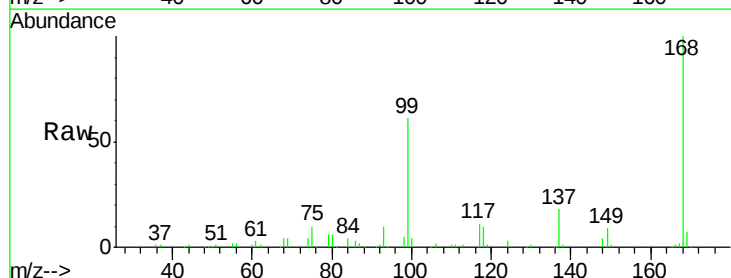
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-6-D

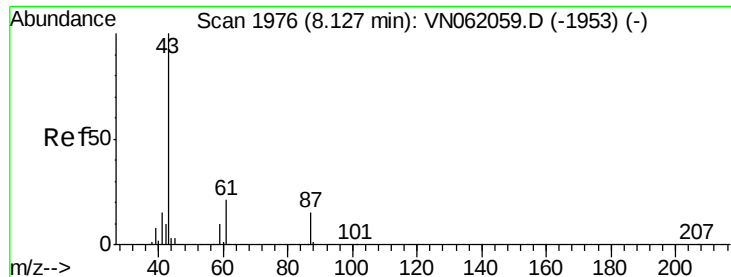
Tgt Ion: 43 Resp: 3645
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.0 18.0#
 70 0.0 9.6 14.4#



#38
 Carbon Tetrachloride
 Concen: 5.309 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN062227.D
 Acq: 30 Jun 2020 8:12

Tgt Ion: 117 Resp: 21017
 Ion Ratio Lower Upper
 117 100
 119 6.2 78.2 117.2#
 121 0.0 25.8 38.6#





#43

Isopropyl Acetate

Concen: 9.220 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062227.D

Acq: 30 Jun 2020 8:12

Instrument :

MSVOA_N

ClientSampleId :

TP-6-D

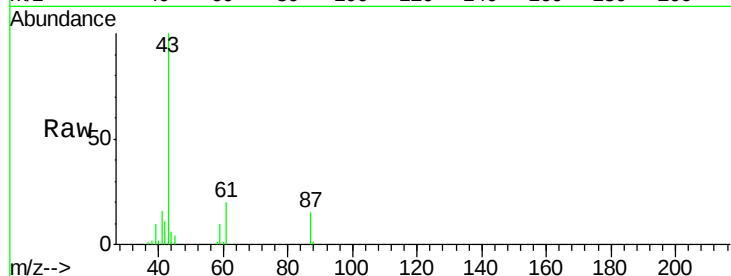
Tgt Ion: 43 Resp: 52261

Ion Ratio Lower Upper

43 100

61 21.7 17.2 25.8

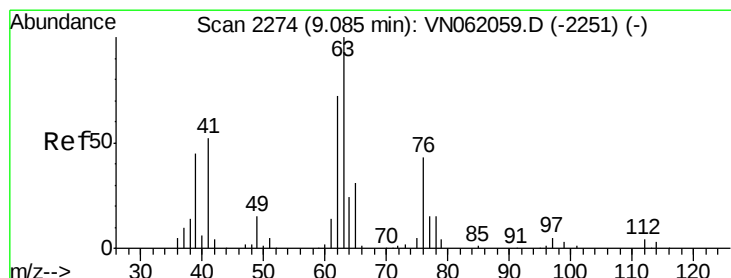
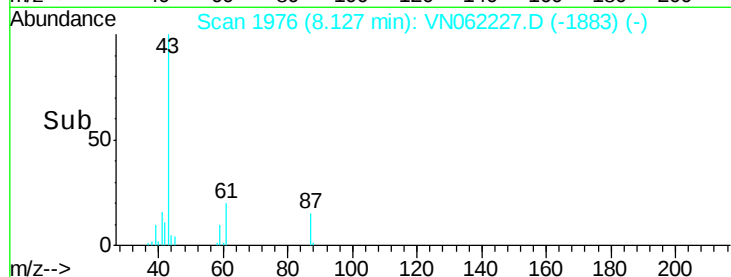
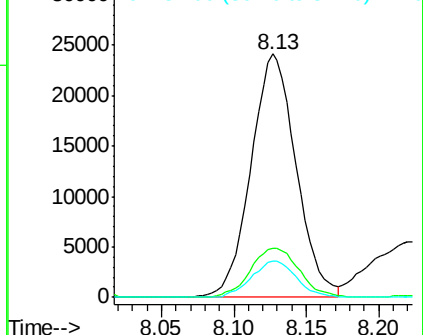
87 14.8 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-1953) (-)

Ion 61.00 (60.70 to 61.70): VN062059.D (-1953) (-)

Ion 87.00 (86.70 to 87.70): VN062059.D (-1953) (-)



#45

1,2-Dichloropropane

Concen: 0.478 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062227.D

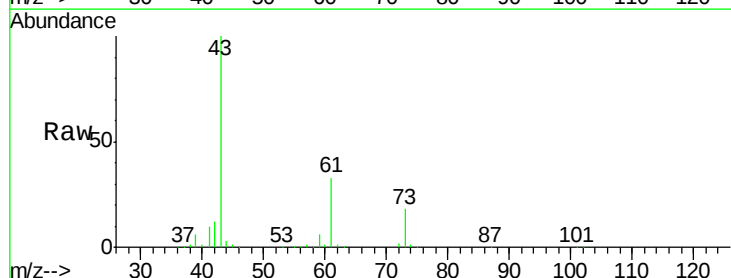
Acq: 30 Jun 2020 8:12

Tgt Ion: 63 Resp: 1508

Ion Ratio Lower Upper

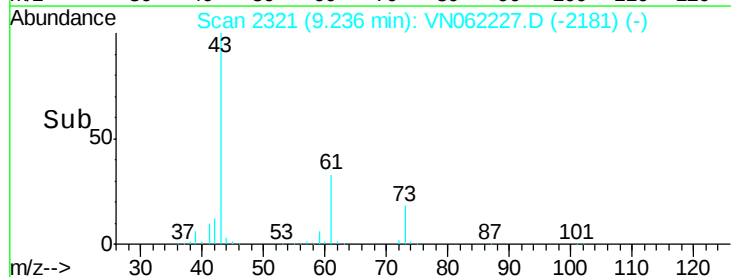
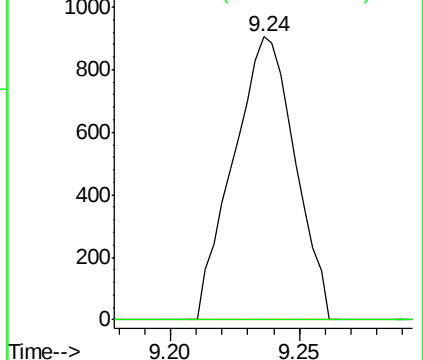
63 100

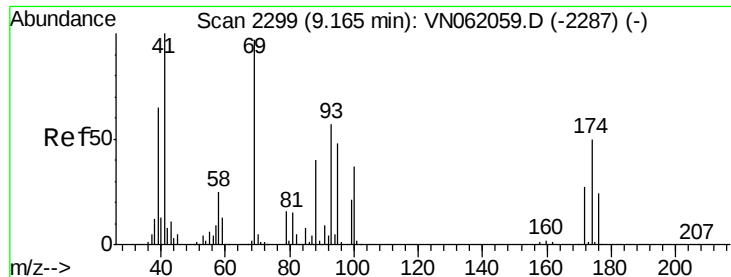
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN062059.D (-2251) (-)

Ion 64.90 (64.60 to 65.60): VN062059.D (-2251) (-)

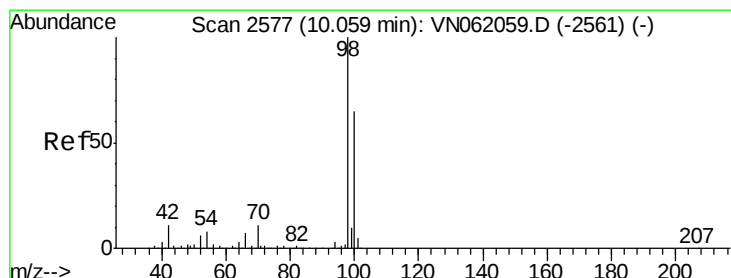
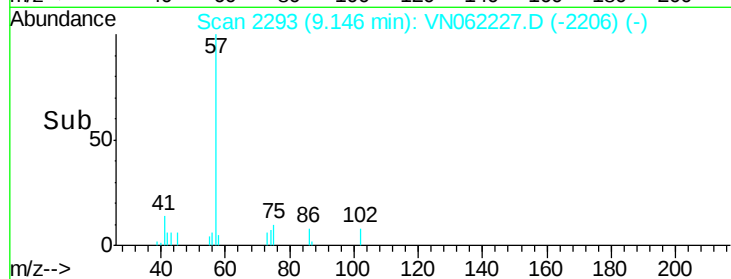
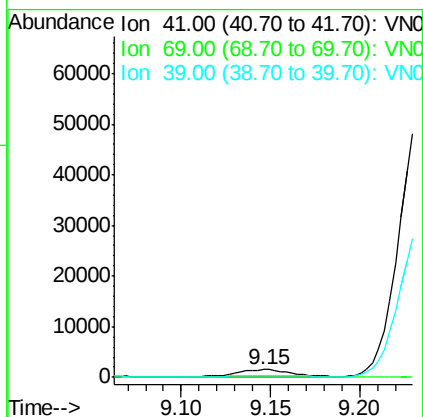
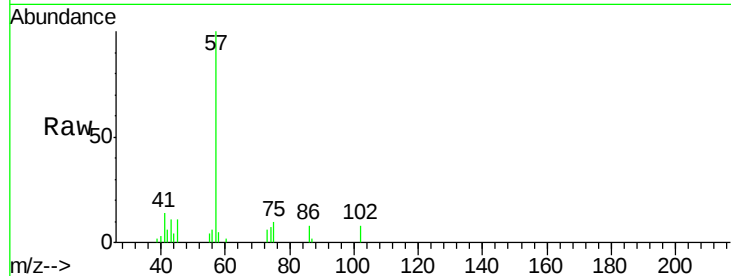




#48
Methyl methacrylate
Concen: 1.378 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN062227.D
Acq: 30 Jun 2020 8:12

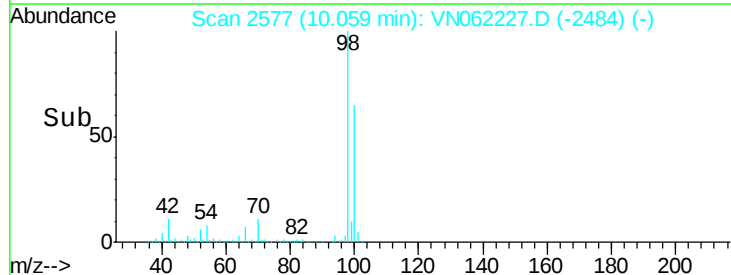
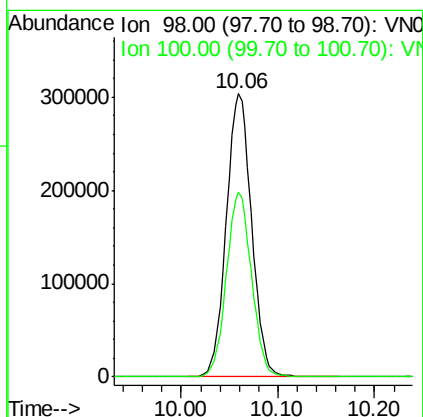
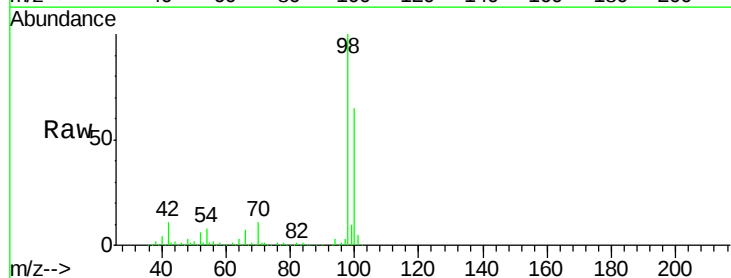
Instrument :
MSVOA_N
ClientSampled :
TP-6-D

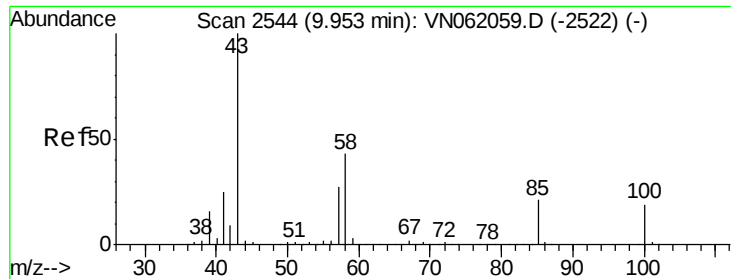
Tgt Ion: 41 Resp: 3502
Ion Ratio Lower Upper
41 100
69 0.0 80.7 121.1#
39 0.0 54.5 81.7#



#50
Toluene-d8
Concen: 51.479 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062227.D
Acq: 30 Jun 2020 8:12

Tgt Ion: 98 Resp: 551507
Ion Ratio Lower Upper
98 100
100 64.7 51.2 76.8

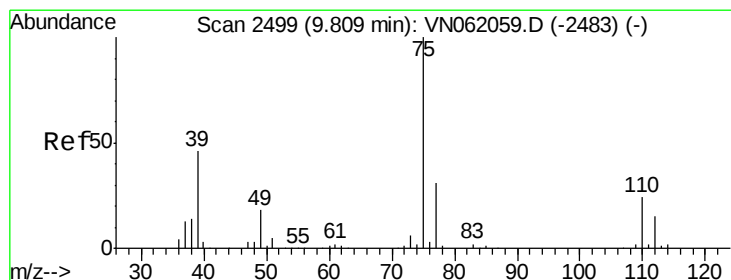
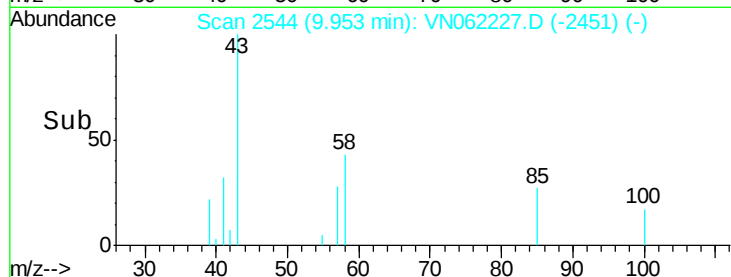
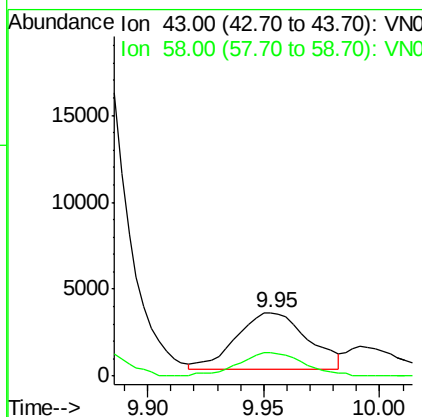
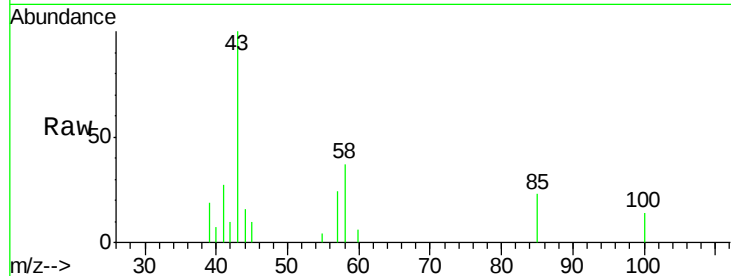




#51
4-Methyl-2-Pentanone
Concen: 2.074 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN062227.D
Acq: 30 Jun 2020 8:12

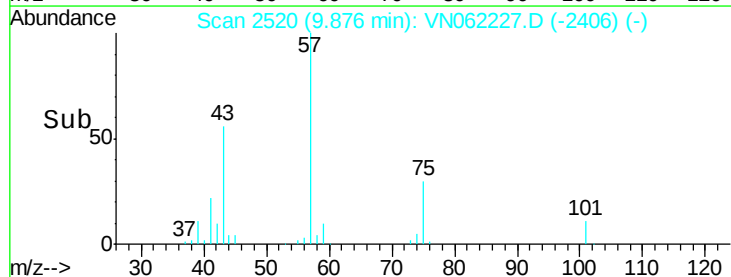
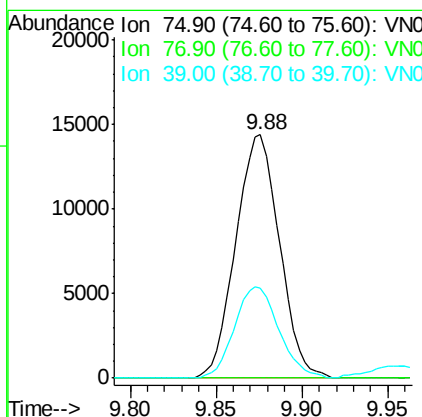
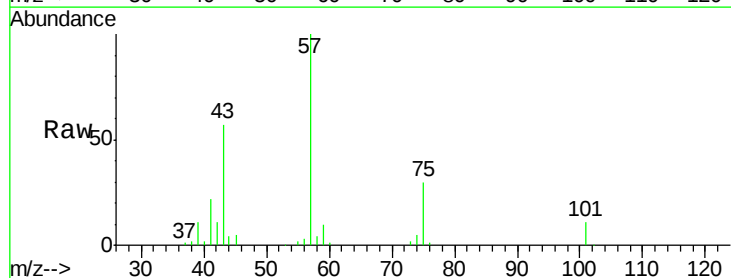
Instrument :
MSVOA_N
ClientSampled :
TP-6-D

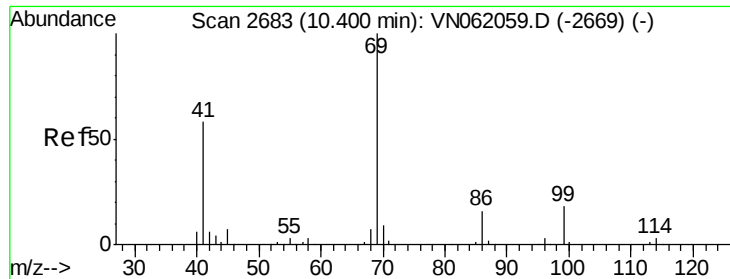
Tgt Ion: 43 Resp: 6867
Ion Ratio Lower Upper
43 100
58 38.7 34.2 51.2



#54
cis-1,3-Dichloropropene
Concen: 5.015 ug/l
RT: 9.88 min Scan# 2520
Delta R.T. 0.07 min
Lab File: VN062227.D
Acq: 30 Jun 2020 8:12

Tgt Ion: 75 Resp: 25389
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#
39 36.8 36.9 55.3#





#56

Ethyl methacrylate

Concen: 0.315 ug/l

RT: 10.51 min Scan# 2717

Delta R.T. 0.11 min

Lab File: VN062227.D

Acq: 30 Jun 2020 8:12

Instrument :

MSVOA_N

ClientSampled :

TP-6-D

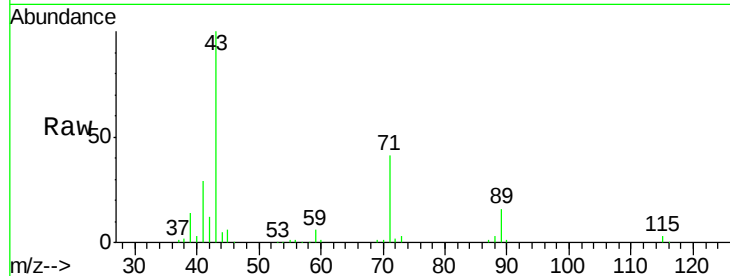
Tgt Ion: 69 Resp: 1290

Ion Ratio Lower Upper

69 100

41 3961.7 46.6 70.0#

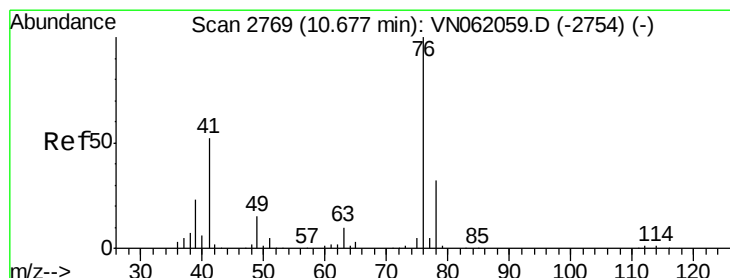
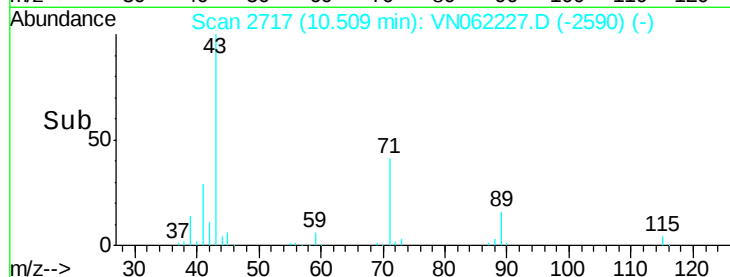
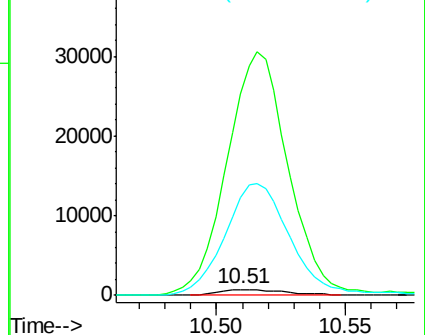
39 1923.8 31.0 46.4#



Abundance Ion 69.00 (68.70 to 69.70): VN062227.D (-2590) (-)

Ion 41.00 (40.70 to 41.70): VN062227.D (-2590) (-)

Ion 39.00 (38.70 to 39.70): VN062227.D (-2590) (-)



#57

1,3-Dichloropropane

Concen: 0.933 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.06 min

Lab File: VN062227.D

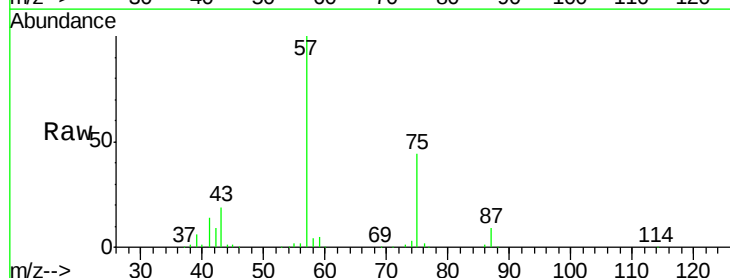
Acq: 30 Jun 2020 8:12

Tgt Ion: 76 Resp: 4931

Ion Ratio Lower Upper

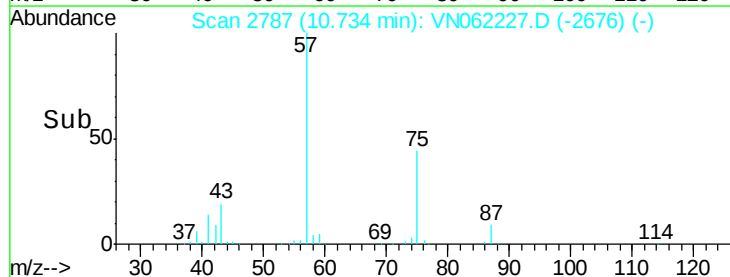
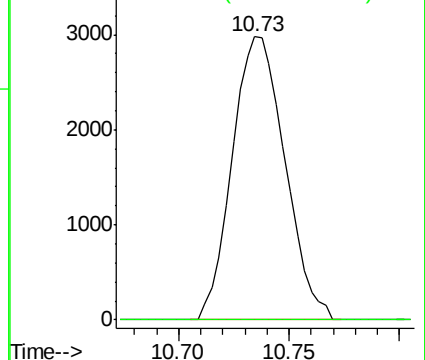
76 100

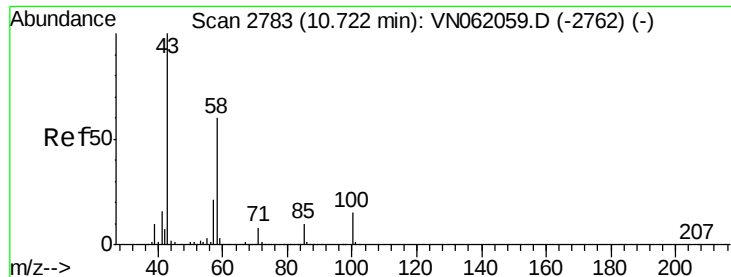
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN062227.D (-2676) (-)

Ion 77.90 (77.60 to 78.60): VN062227.D (-2676) (-)

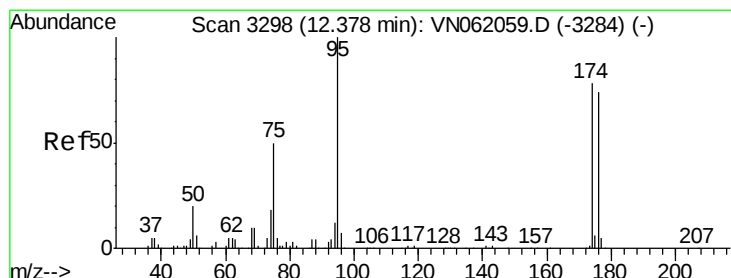
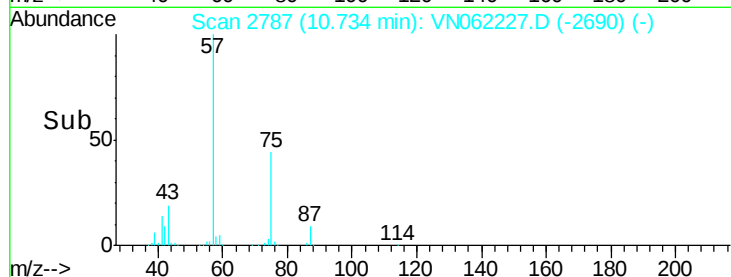
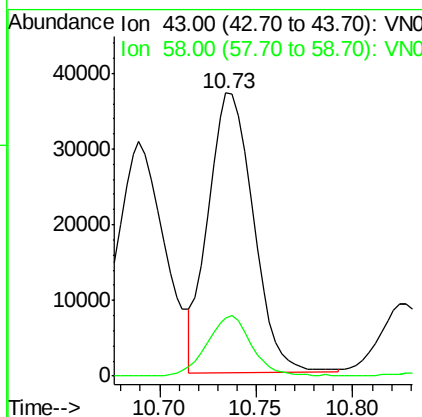
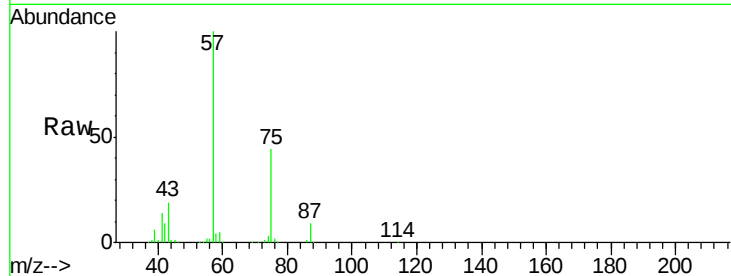




#59
2-Hexanone
Concen: 25.185 ug/l
RT: 10.73 min Scan# 2787
Delta R.T. 0.01 min
Lab File: VN062227.D
Acq: 30 Jun 2020 8:12

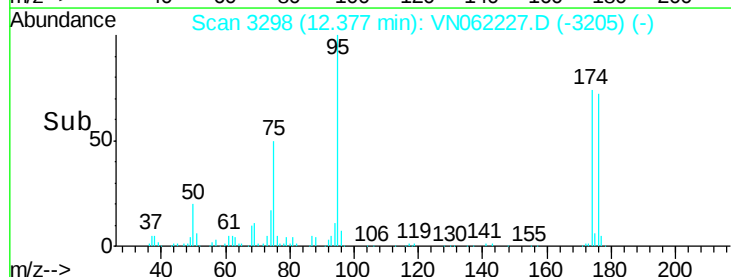
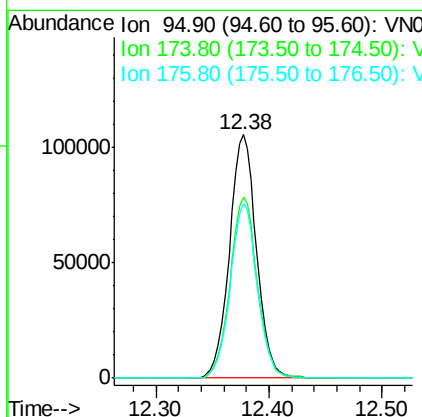
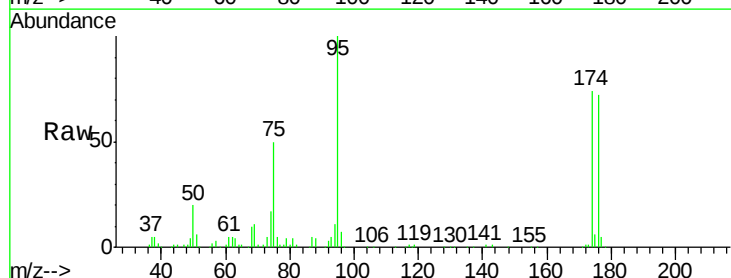
Instrument :
MSVOA_N
ClientSampled :
TP-6-D

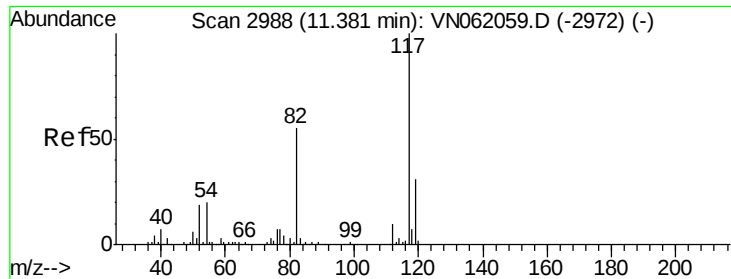
Tgt Ion: 43 Resp: 60226
Ion Ratio Lower Upper
43 100
58 21.2 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 48.221 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062227.D
Acq: 30 Jun 2020 8:12

Tgt Ion: 95 Resp: 174539
Ion Ratio Lower Upper
95 100
174 75.5 0.0 154.8
176 71.6 0.0 147.4

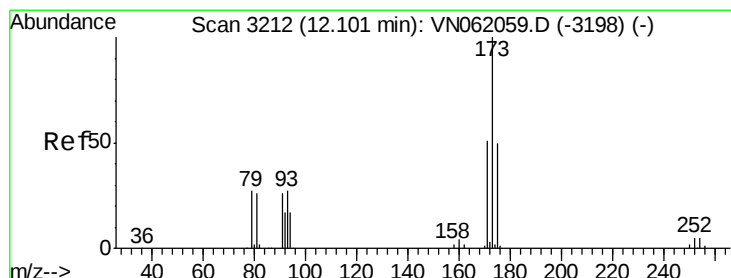
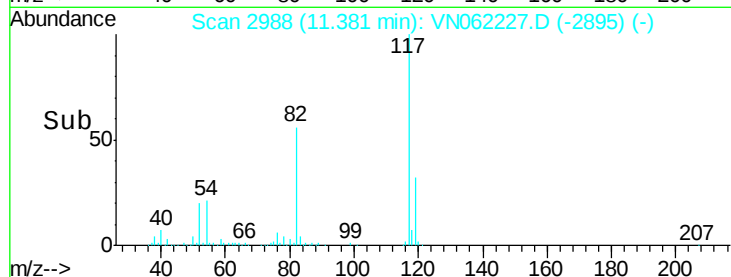
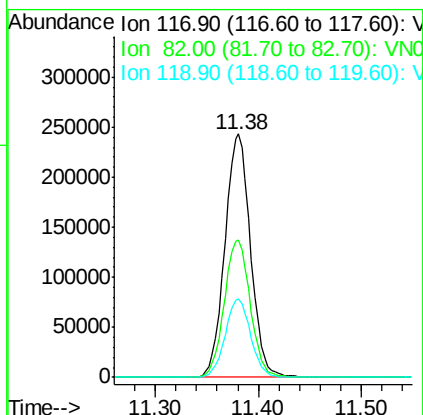
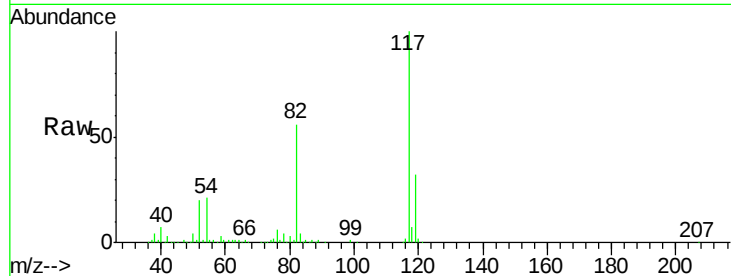




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062227.D
Acq: 30 Jun 2020 8:12

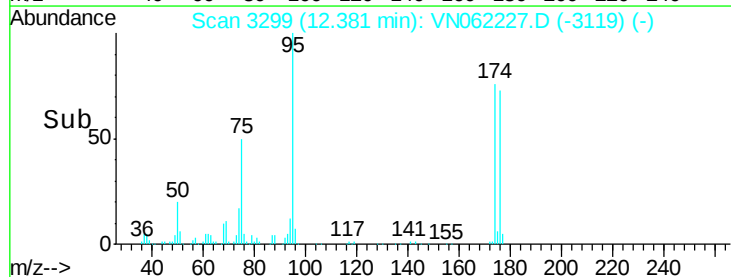
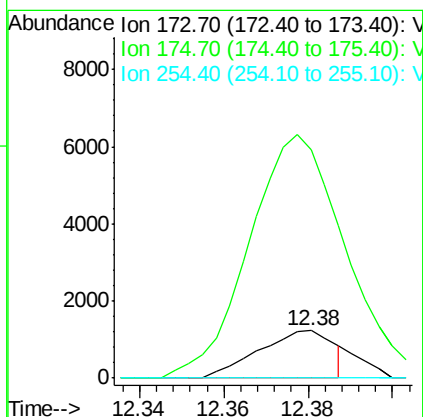
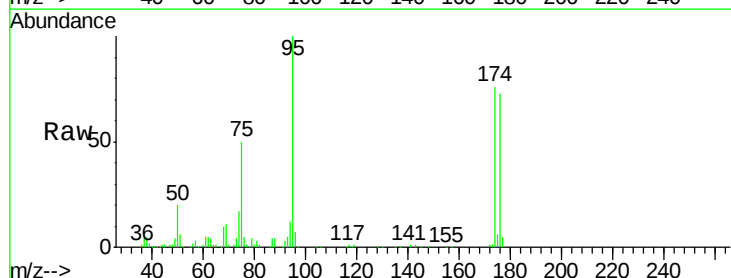
Instrument :
MSVOA_N
ClientSampleId :
TP-6-D

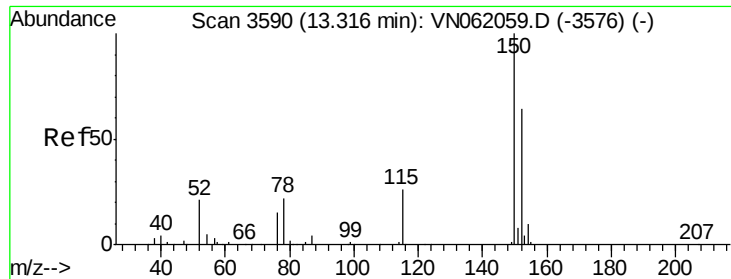
Tgt Ion:117 Resp: 421376
Ion Ratio Lower Upper
117 100
82 56.2 43.8 65.8
119 32.2 25.2 37.8



#71
Bromoform
Concen: 0.667 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.28 min
Lab File: VN062227.D
Acq: 30 Jun 2020 8:12

Tgt Ion:173 Resp: 1517
Ion Ratio Lower Upper
173 100
175 556.2 24.7 74.1#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062227.D

Acq: 30 Jun 2020 8:12

Instrument :

MSVOA_N

ClientSampleId :

TP-6-D

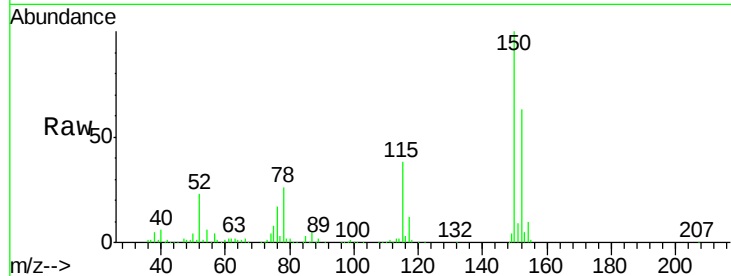
Tgt Ion:152 Resp: 143355

Ion Ratio Lower Upper

152 100

115 60.9 29.5 88.5

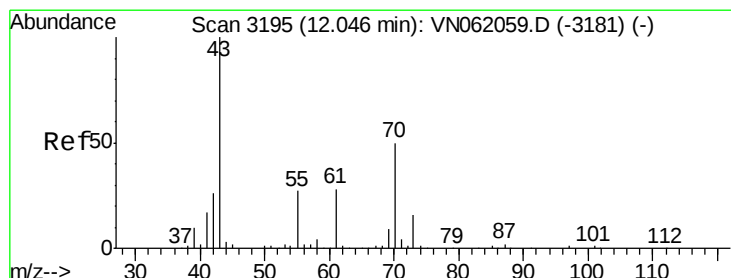
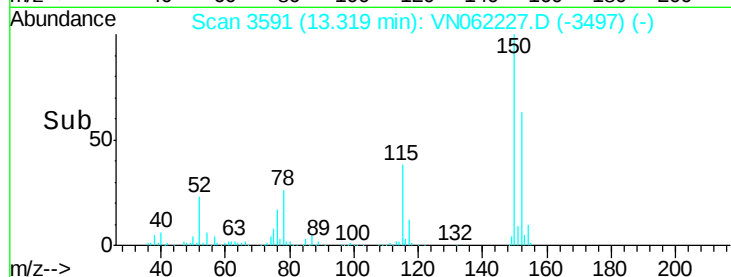
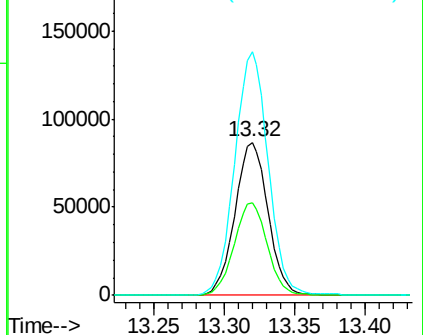
150 160.4 0.0 351.4



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-ethyl acetate

Concen: 3.823 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062227.D

Acq: 30 Jun 2020 8:12

Tgt Ion: 43 Resp: 2101

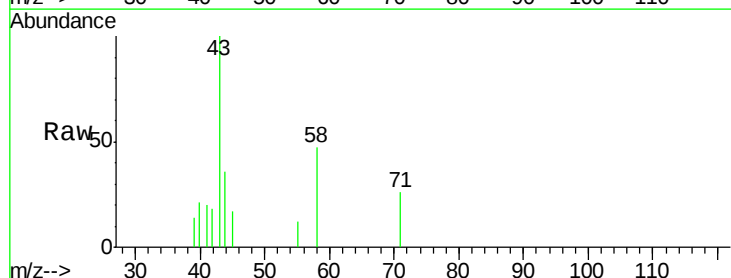
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 8.9 21.7 32.5#

61 0.0 21.3 31.9#

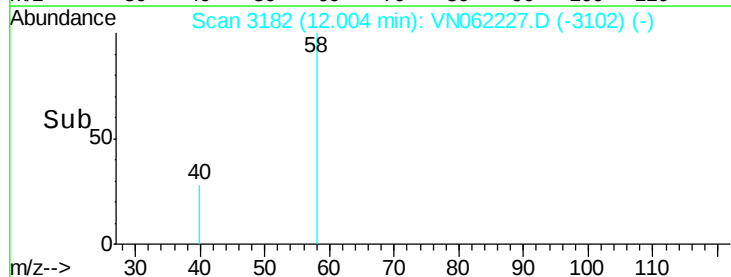
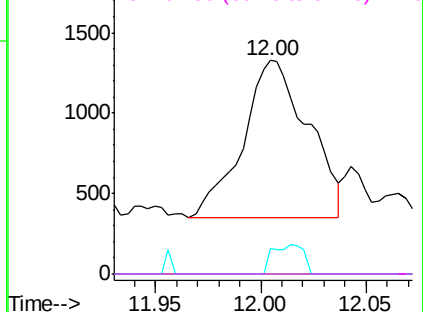


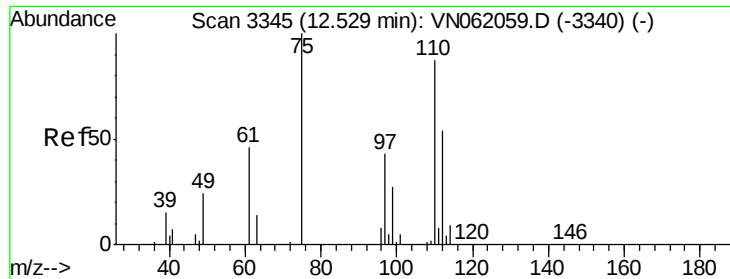
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 26.493 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062227.D

Acq: 30 Jun 2020 8:12

Instrument :

MSVOA_N

ClientSampled :

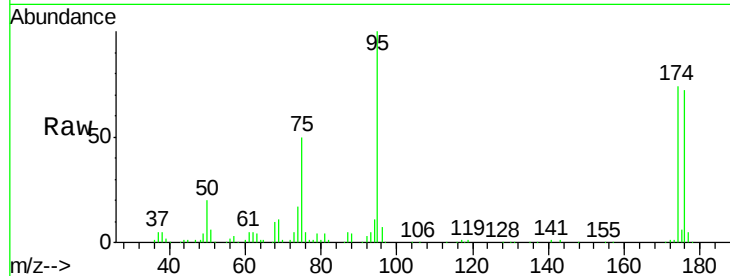
TP-6-D

Tgt Ion: 75 Resp: 89405

Ion Ratio Lower Upper

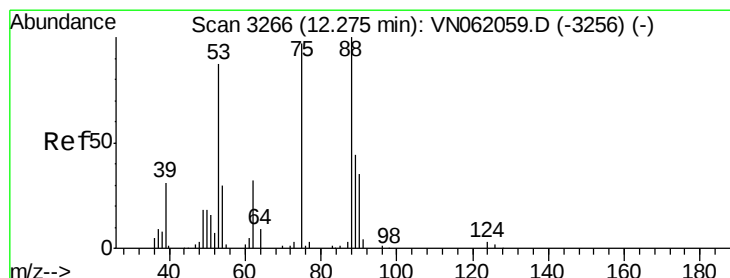
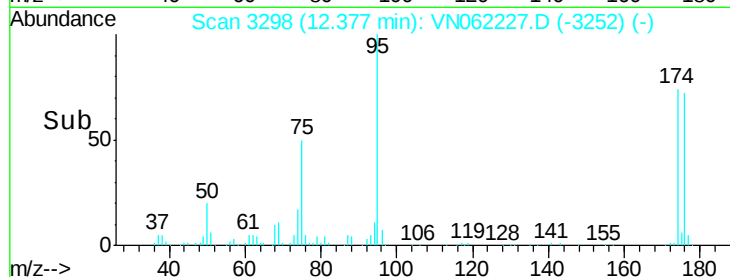
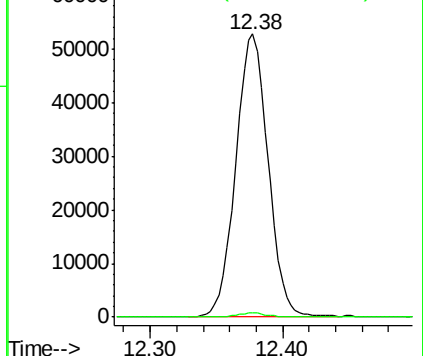
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 77.369 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062227.D

Acq: 30 Jun 2020 8:12

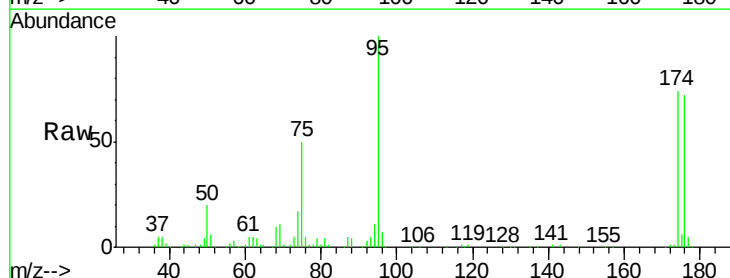
Tgt Ion: 75 Resp: 89405

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

