

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062520\
 Data File : VN062122.D
 Acq On : 25 Jun 2020 19:42
 Operator : JC/MD
 Sample : L3087-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FM1296

Quant Time: Jun 26 01:53:02 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	241340	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	432652	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	410692	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	156034	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	154592	45.65	ug/l	0.00
Spiked Amount			Recovery	=	91.30%	
35) Dibromofluoromethane	7.55	113	135600	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
50) Toluene-d8	10.06	98	529867	47.76	ug/l	0.00
Spiked Amount			Recovery	=	95.52%	
62) 4-Bromofluorobenzene	12.38	95	178672	47.66	ug/l	0.00
Spiked Amount			Recovery	=	95.32%	

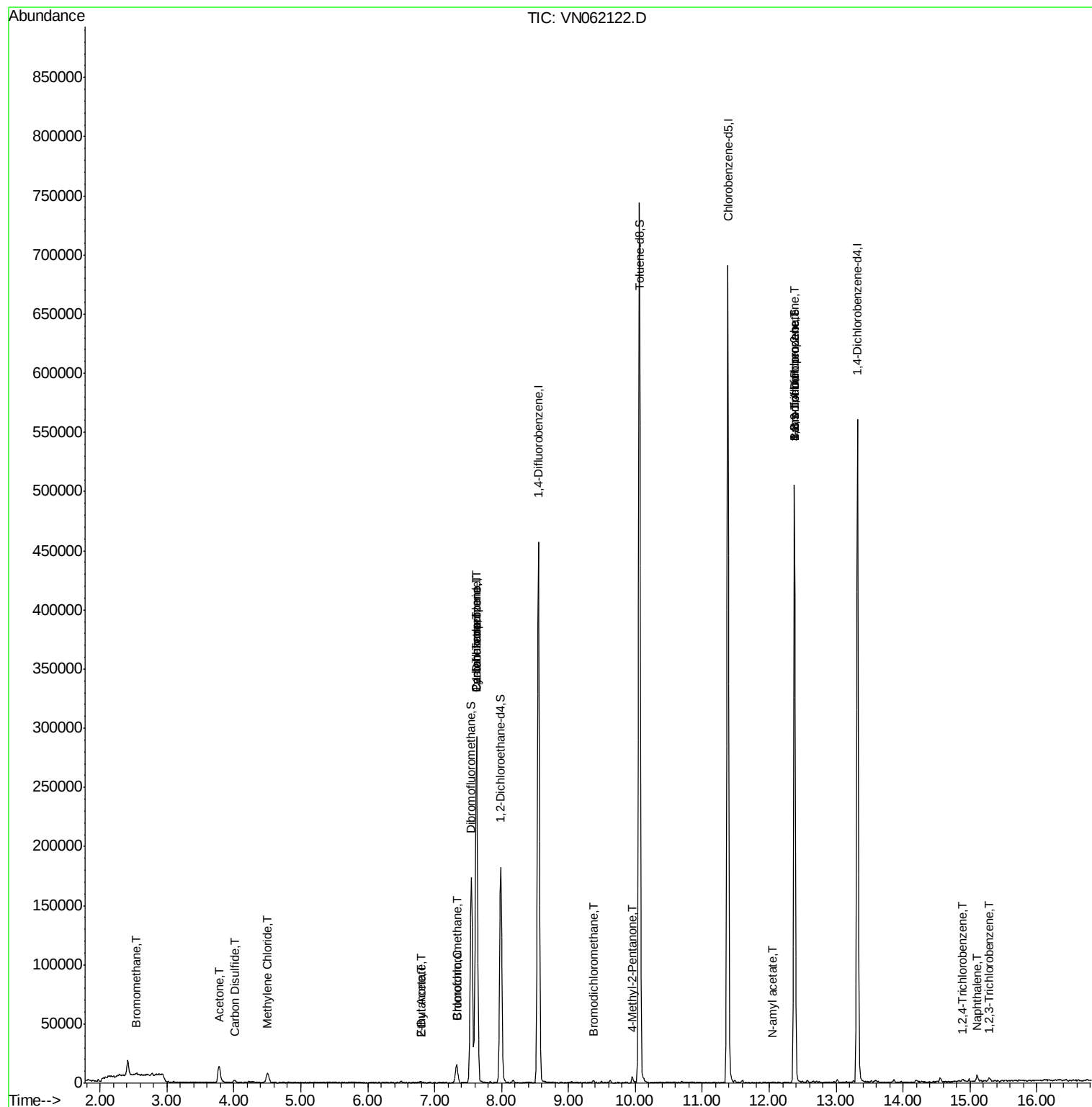
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	535	Below Cal	#	35
5) Bromomethane	2.54	94	682	0.246	ug/l #	8
16) Acetone	3.78	43	23329	18.189	ug/l	99
17) Carbon Disulfide	4.00	76	2105	0.315	ug/l #	83
20) Methylene Chloride	4.51	84	6087	1.749	ug/l	90
25) 2-Butanone	6.80	43	1256	0.759	ug/l	94
28) Bromochloromethane	7.32	49	1150	0.479	ug/l #	11
30) Chloroform	7.33	83	16815	2.988	ug/l	98
31) Cyclohexane	7.63	56	5248	1.122	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	18182	4.181	ug/l #	50
37) Ethyl Acetate	6.80	43	1256	0.349	ug/l #	66
38) Carbon Tetrachloride	7.63	117	23749	5.792	ug/l #	14
47) Bromodichloromethane	9.37	83	1646	0.368	ug/l #	90
51) 4-Methyl-2-Pentanone	9.96	43	3326	0.970	ug/l #	87
71) Bromoform	12.37	173	1546	0.697	ug/l #	1
74) N-amyl acetate	12.05	43	216	3.388	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	89272	24.304	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	89272	70.976	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.89	180	1053	0.472	ug/l	86
95) Naphthalene	15.10	128	5568	4.684	ug/l	96
96) 1,2,3-Trichlorobenzene	15.28	180	741	0.325	ug/l #	41

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062122.D

Acq: 25 Jun 2020 19:42

Instrument :

MSVOA_N

ClientSampleId :

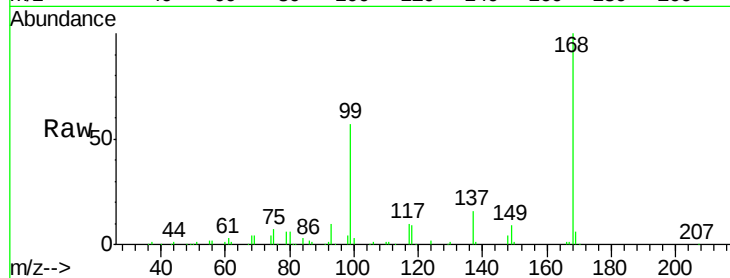
FM1296

Tgt Ion:168 Resp: 241340

Ion Ratio Lower Upper

168 100

99 57.3 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

100000

80000

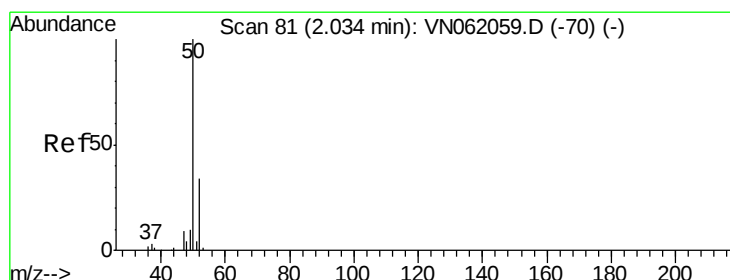
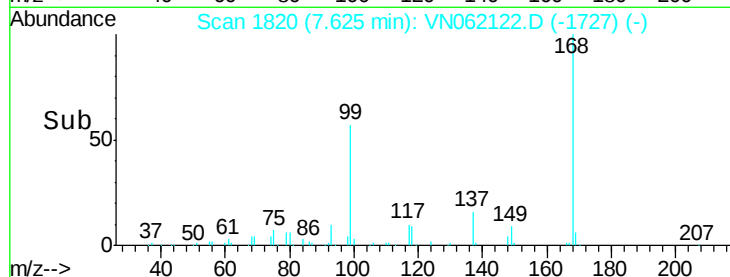
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN062122.D

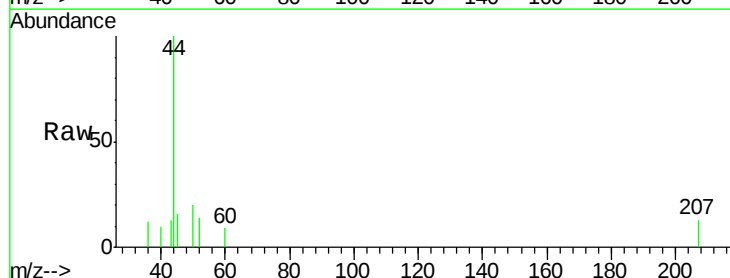
Acq: 25 Jun 2020 19:42

Tgt Ion: 50 Resp: 535

Ion Ratio Lower Upper

50 100

52 70.8 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

400

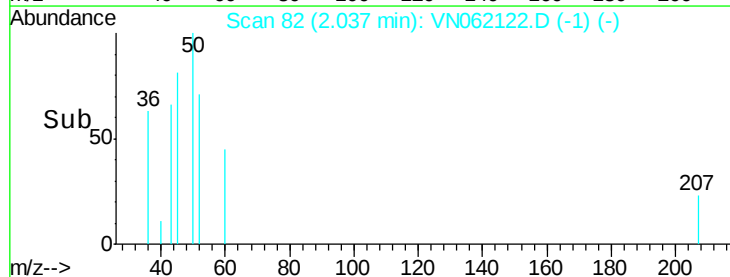
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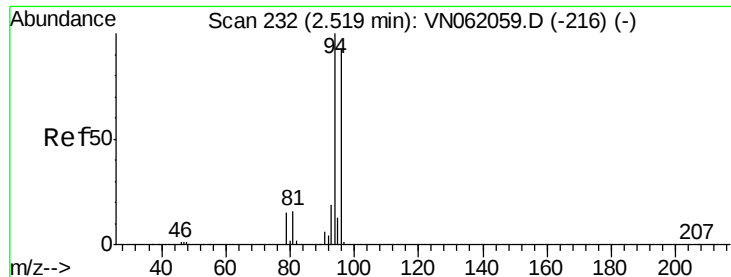
200

100

0

Time--> 2.00 2.02 2.04 2.06





#5

Bromomethane

Concen: 0.246 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.02 min

Lab File: VN062122.D

Acq: 25 Jun 2020 19:42

Instrument :

MSVOA_N

ClientSampled :

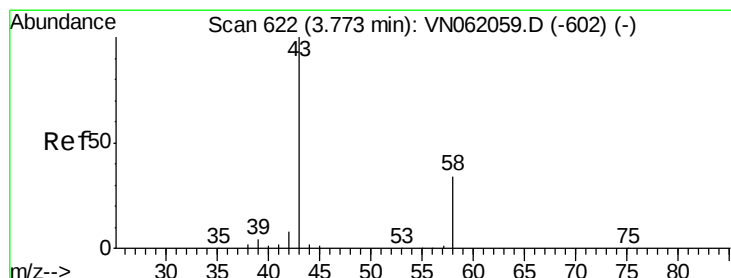
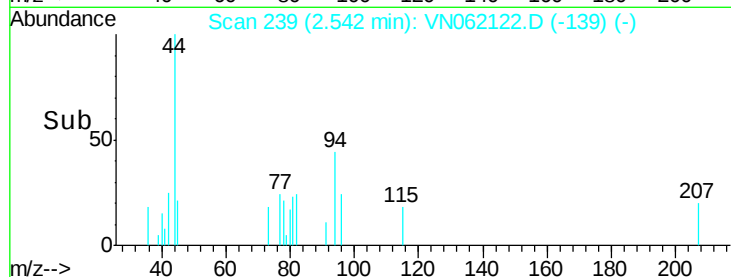
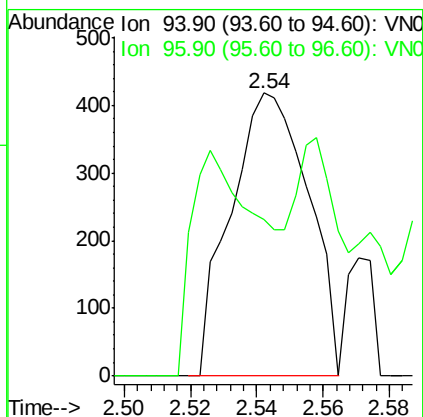
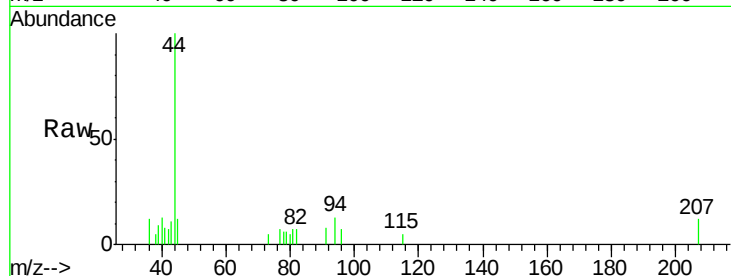
FM1296

Tgt Ion: 94 Resp: 682

Ion Ratio Lower Upper

94 100

96 4.5 73.4 110.2#



#16

Acetone

Concen: 18.189 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN062122.D

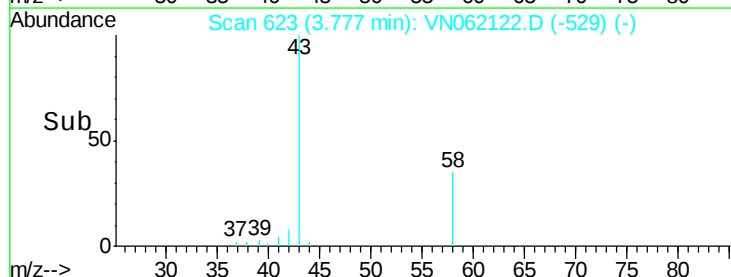
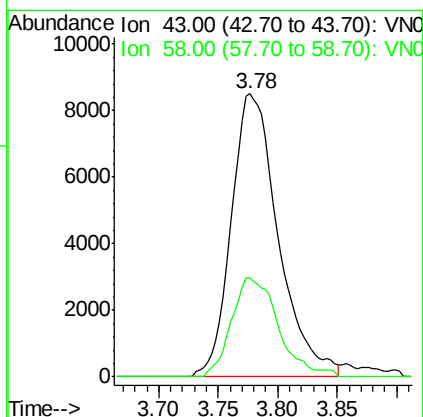
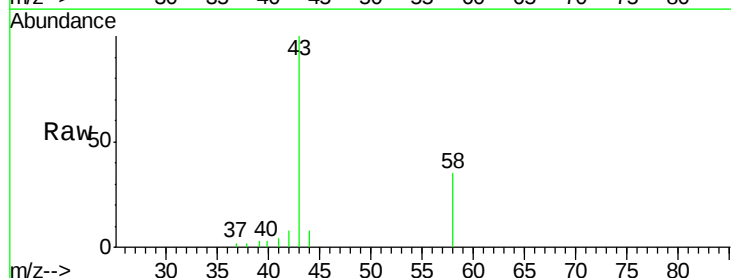
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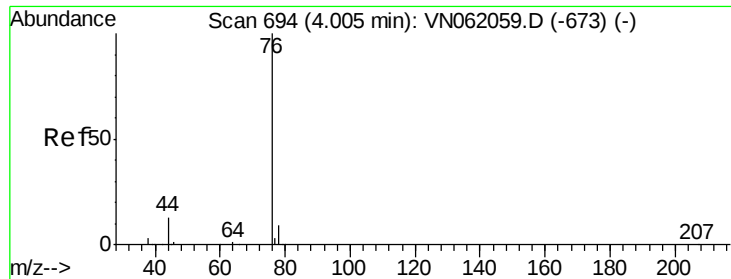
Tgt Ion: 43 Resp: 23329

Ion Ratio Lower Upper

43 100

58 35.0 27.5 41.3

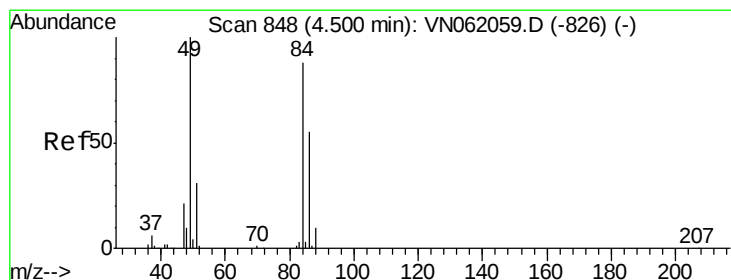
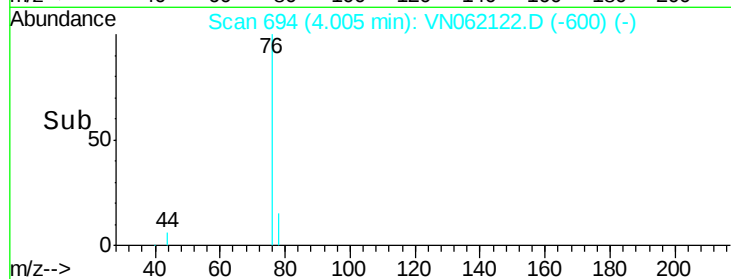
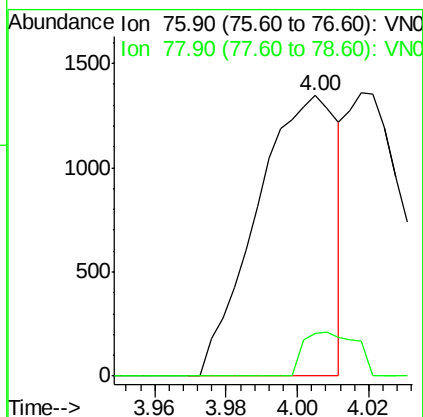
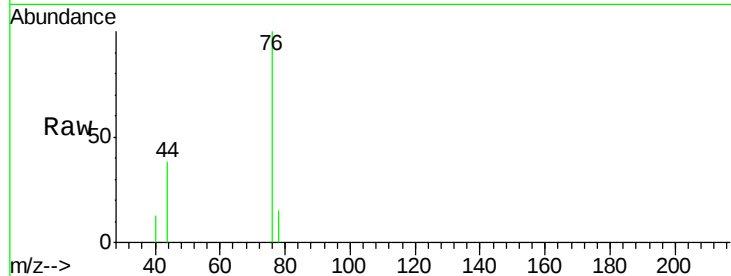




#17
Carbon Disulfide
Concen: 0.315 ug/l
RT: 4.00 min Scan# 694
Delta R.T. 0.00 min
Lab File: VN062122.D
Acq: 25 Jun 2020 19:42

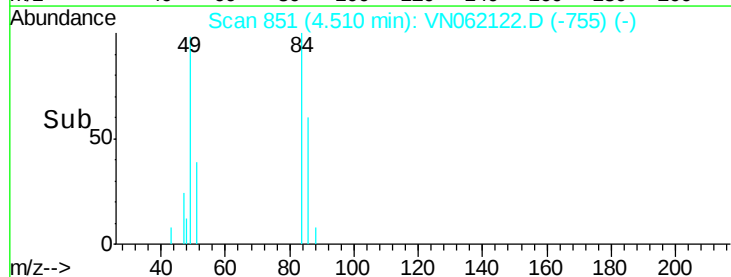
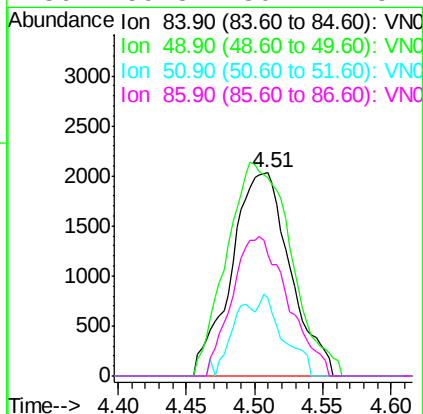
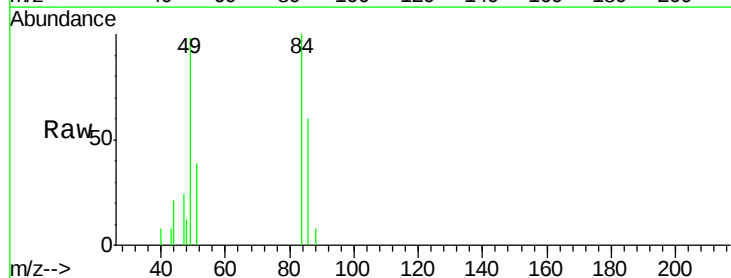
Instrument :
MSVOA_N
ClientSampled :
FM1296

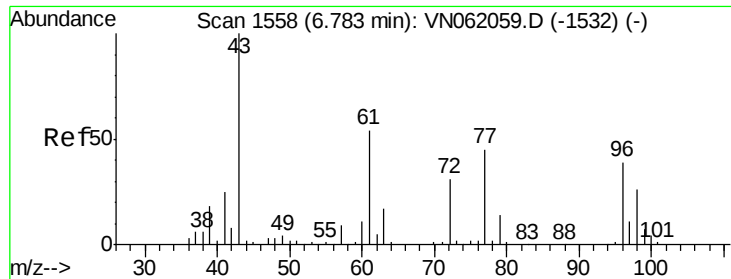
Tgt Ion: 76 Resp: 2105
Ion Ratio Lower Upper
76 100
78 15.1 7.2 10.8#



#20
Methylene Chloride
Concen: 1.749 ug/l
RT: 4.51 min Scan# 851
Delta R.T. 0.01 min
Lab File: VN062122.D
Acq: 25 Jun 2020 19:42

Tgt Ion: 84 Resp: 6087
Ion Ratio Lower Upper
84 100
49 97.7 90.6 136.0
51 38.5 27.8 41.8
86 59.8 50.1 75.1

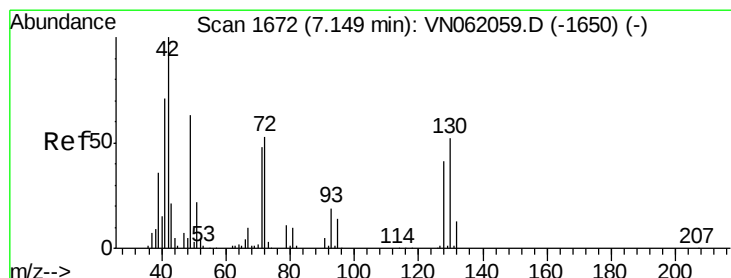
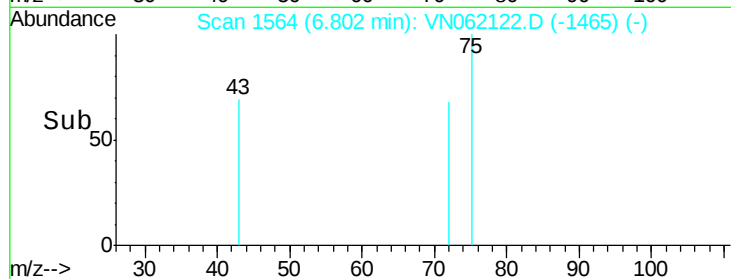
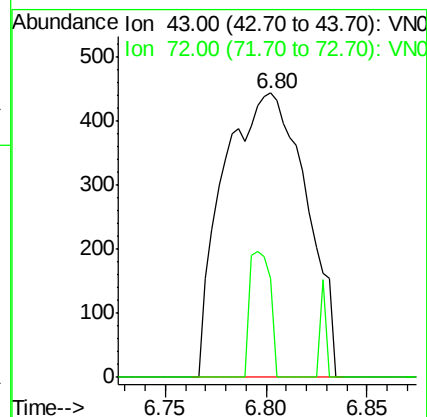
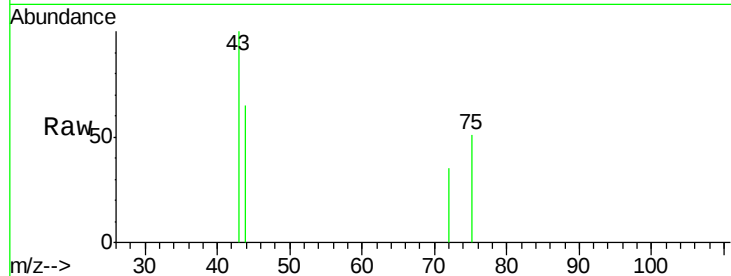




#25
2-Butanone
Concen: 0.759 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.02 min
Lab File: VN062122.D
Acq: 25 Jun 2020 19:42

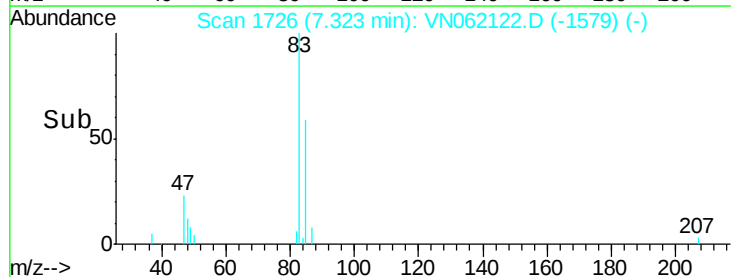
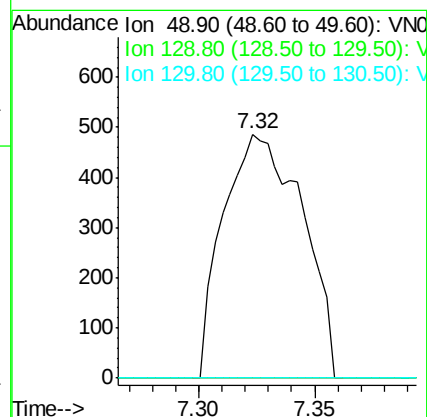
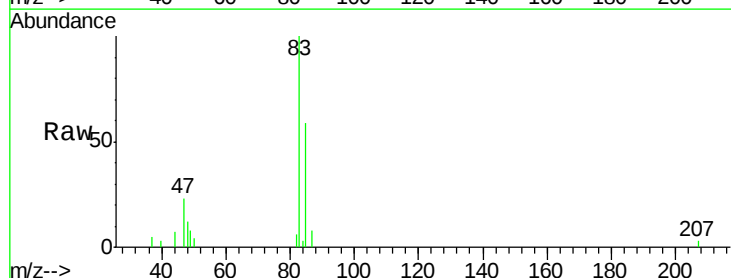
Instrument :
MSVOA_N
ClientSampled :
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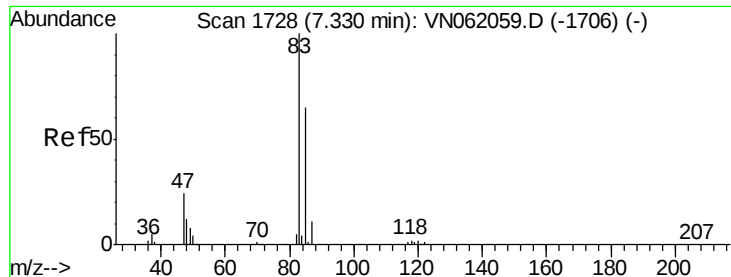
Tgt Ion: 43 Resp: 1256
Ion Ratio Lower Upper
43 100
72 34.5 24.8 37.2



#28
Bromochloromethane
Concen: 0.479 ug/l
RT: 7.32 min Scan# 1726
Delta R.T. 0.17 min
Lab File: VN062122.D
Acq: 25 Jun 2020 19:42

Tgt Ion: 49 Resp: 1150
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.4
130 0.0 65.5 98.3#

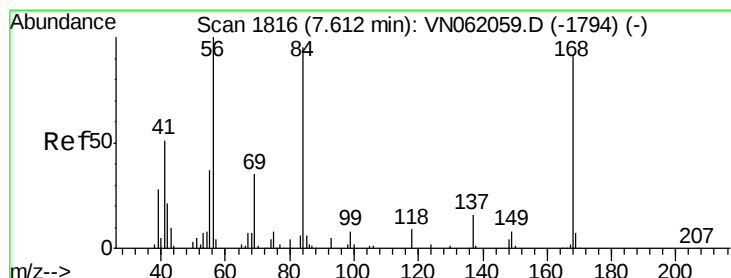
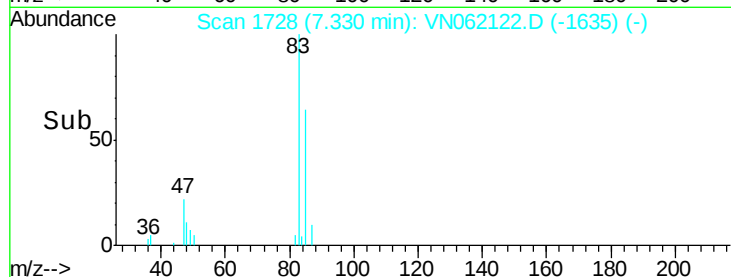
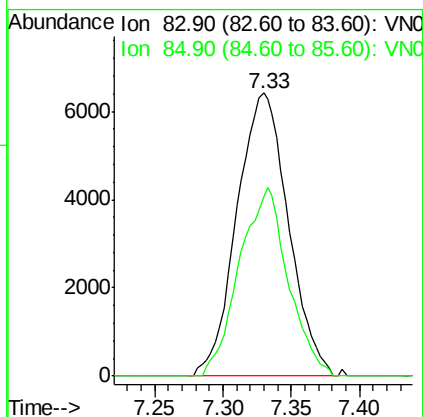
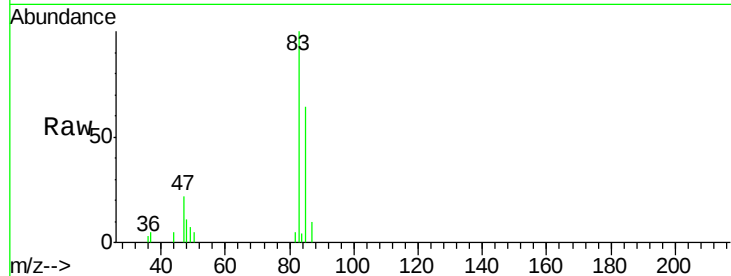




#30
Chloroform
Concen: 2.988 ug/l
RT: 7.33 min Scan# 1728
Delta R.T. 0.00 min
Lab File: VN062122.D
Acq: 25 Jun 2020 19:42

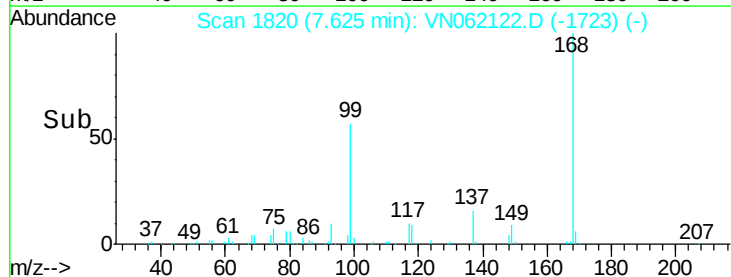
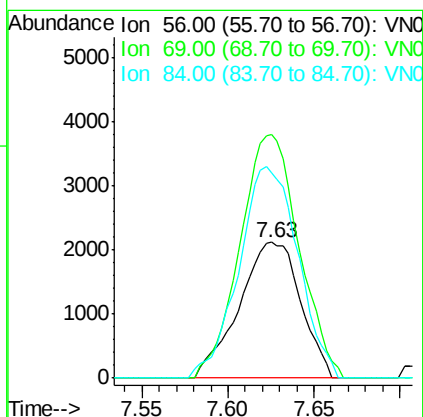
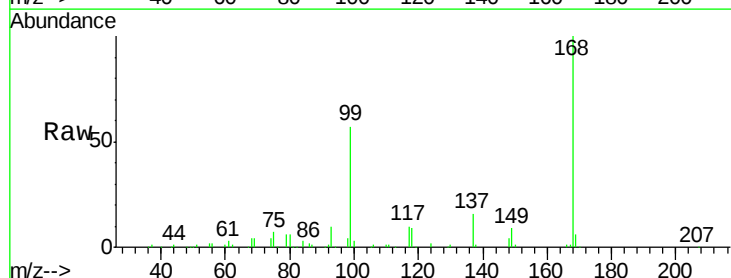
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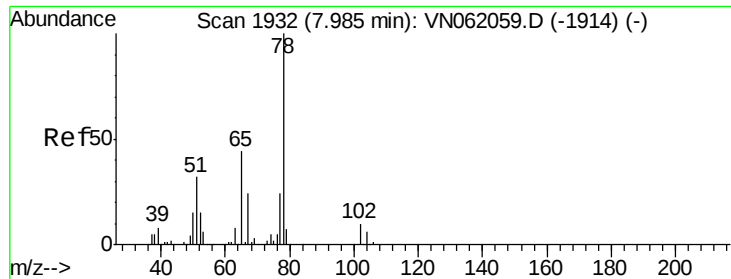
Tgt Ion: 83 Resp: 16815
Ion Ratio Lower Upper
83 100
85 63.7 52.3 78.5



#31
Cyclohexane
Concen: 1.122 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062122.D
Acq: 25 Jun 2020 19:42

Tgt Ion: 56 Resp: 5248
Ion Ratio Lower Upper
56 100
69 179.6 28.0 42.0#
84 151.6 76.1 114.1#





#33

1,2-Dichloroethane-d4

Concen: 45.645 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062122.D

Acq: 25 Jun 2020 19:42

Instrument :

MSVOA_N

ClientSampleId :

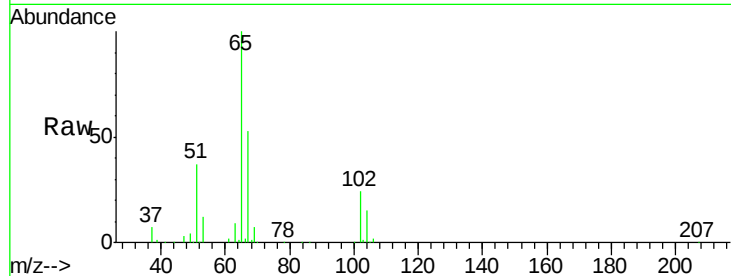
FM1296

Tgt Ion: 65 Resp: 154592

Ion Ratio Lower Upper

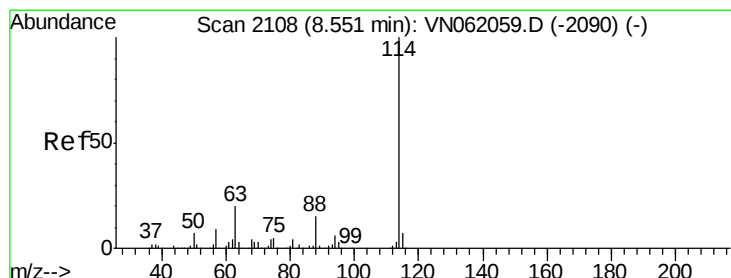
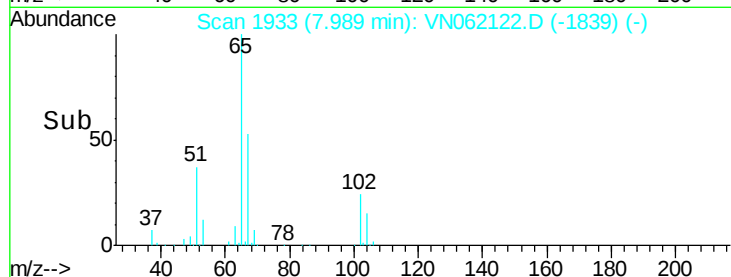
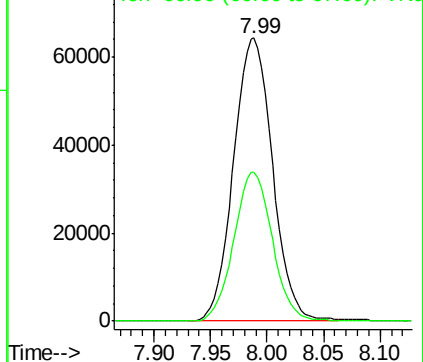
65 100

67 52.1 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN062122.D

Acq: 25 Jun 2020 19:42

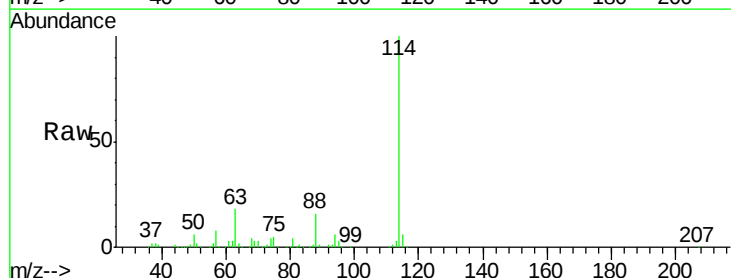
Tgt Ion: 114 Resp: 432652

Ion Ratio Lower Upper

114 100

63 18.5 0.0 39.2

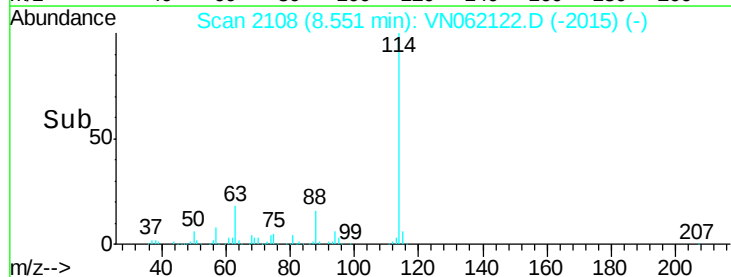
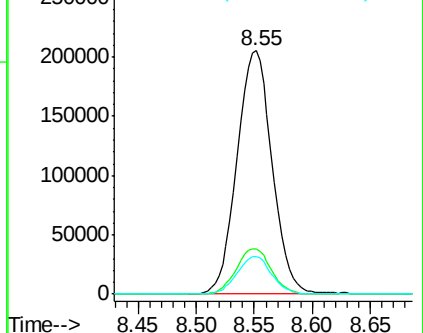
88 15.5 0.0 30.8

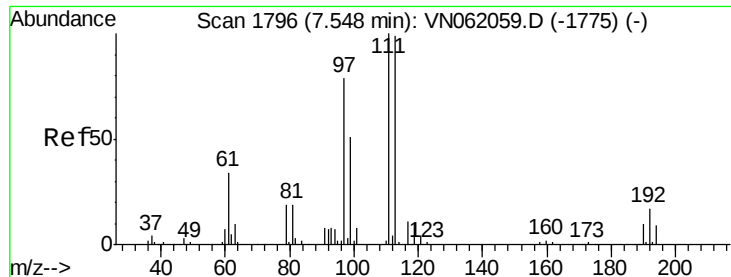


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

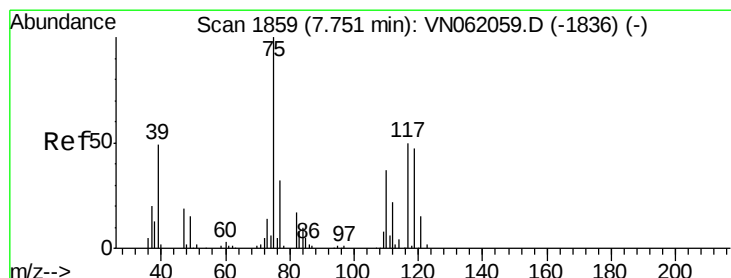
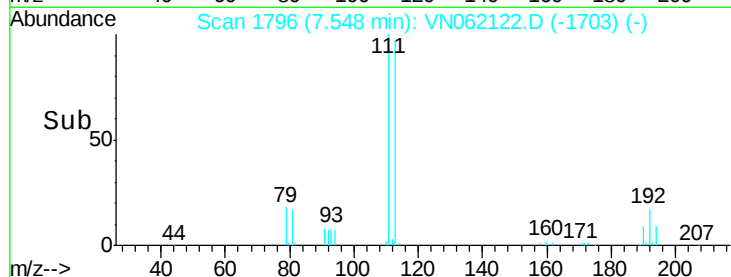
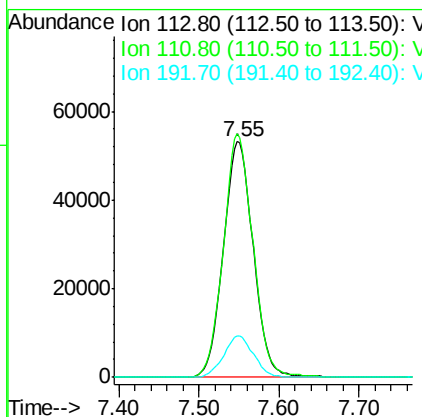
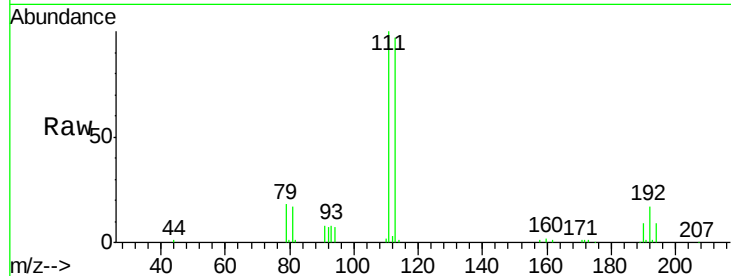




#35
 Dibromofluoromethane
 Concen: 48.853 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062122.D
 Acq: 25 Jun 2020 19:42

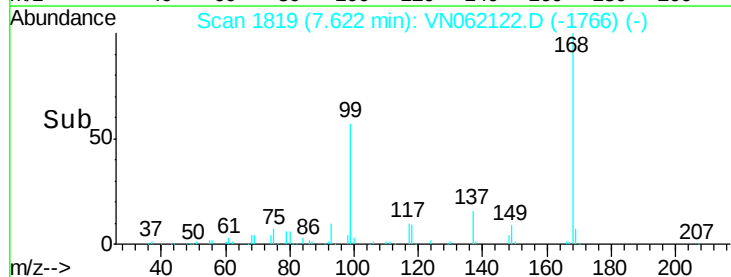
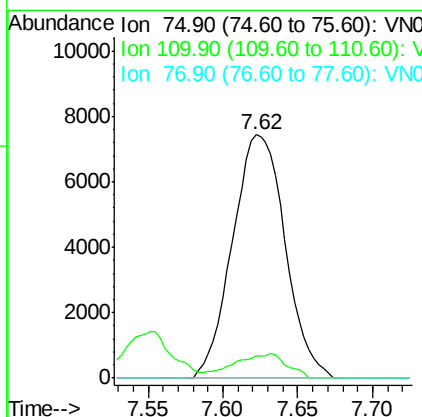
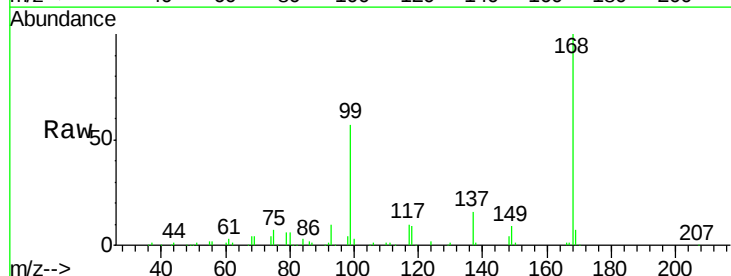
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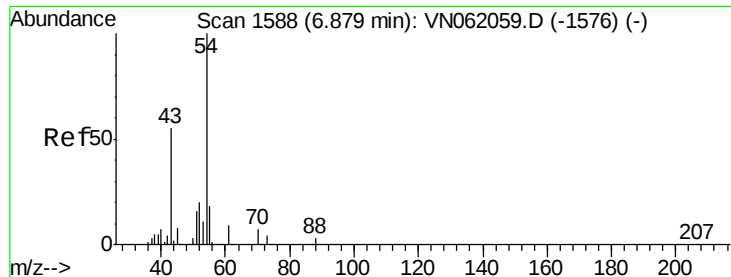
Tgt Ion:113 Resp: 135600
 Ion Ratio Lower Upper
 113 100
 111 101.5 82.2 123.4
 192 17.4 14.0 21.0



#36
 1,1-Dichloropropene
 Concen: 4.181 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062122.D
 Acq: 25 Jun 2020 19:42

Tgt Ion: 75 Resp: 18182
 Ion Ratio Lower Upper
 75 100
 110 10.1 17.9 53.8#
 77 0.0 24.9 37.3#

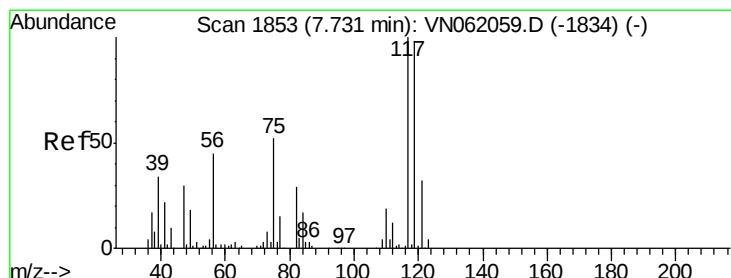
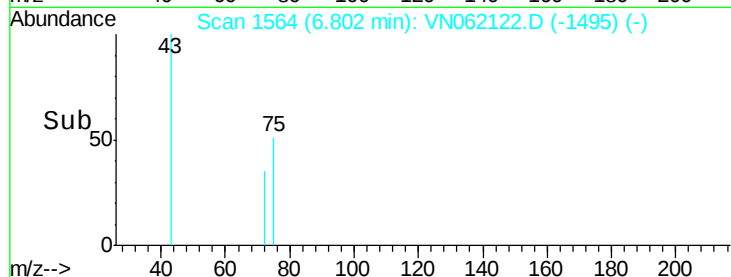
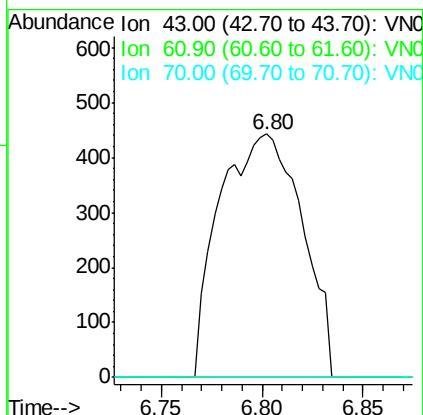
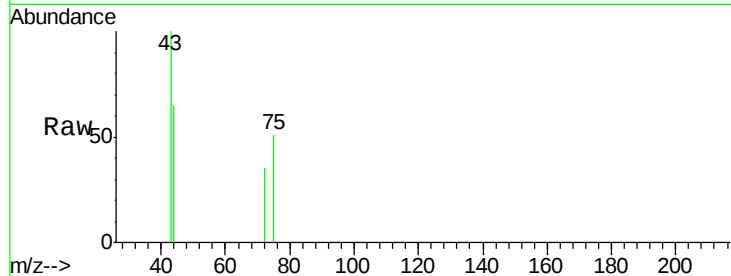




#37
 Ethyl Acetate
 Concen: 0.349 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.08 min
 Lab File: VN062122.D
 Acq: 25 Jun 2020 19:42

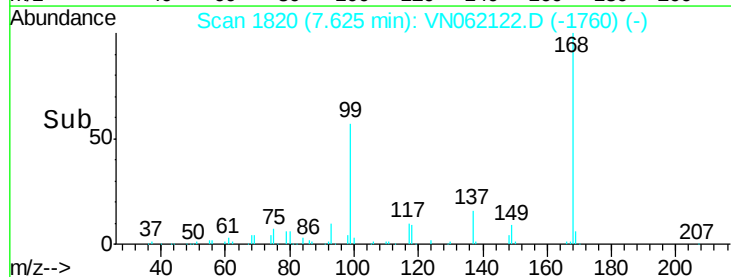
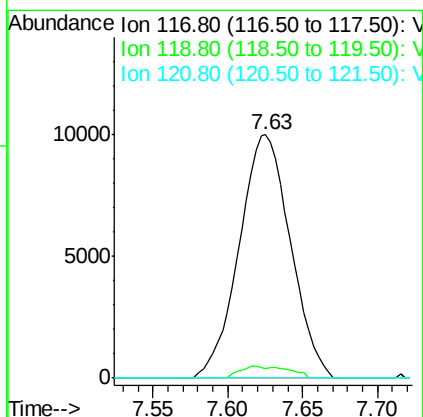
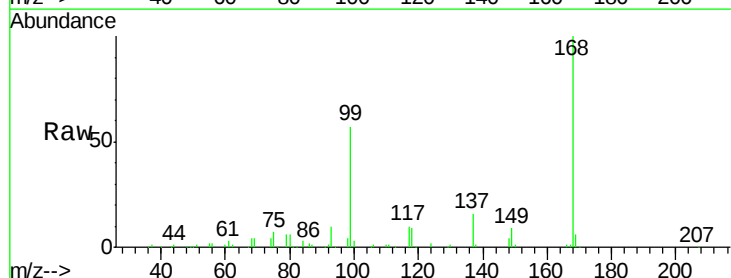
Instrument :
 MSVOA_N
 ClientSampleId :
 FM1296

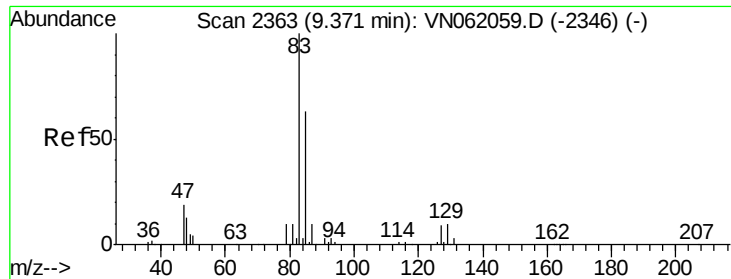
Tgt Ion: 43 Resp: 1256
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.0 18.0#
 70 0.0 9.6 14.4#



#38
 Carbon Tetrachloride
 Concen: 5.792 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN062122.D
 Acq: 25 Jun 2020 19:42

Tgt Ion: 117 Resp: 23749
 Ion Ratio Lower Upper
 117 100
 119 4.0 78.2 117.2#
 121 0.0 25.8 38.6#





#47

Bromodichloromethane

Concen: 0.368 ug/l

RT: 9.37 min Scan# 2364

Delta R.T. 0.00 min

Lab File: VN062122.D

Acq: 25 Jun 2020 19:42

Instrument :

MSVOA_N

ClientSampleId :

FM1296

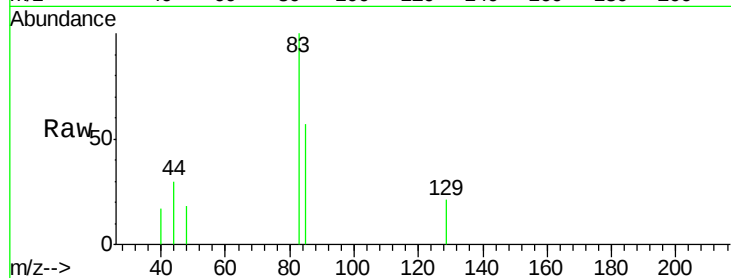
Tgt Ion: 83 Resp: 1646

Ion Ratio Lower Upper

83 100

85 56.8 50.3 75.5

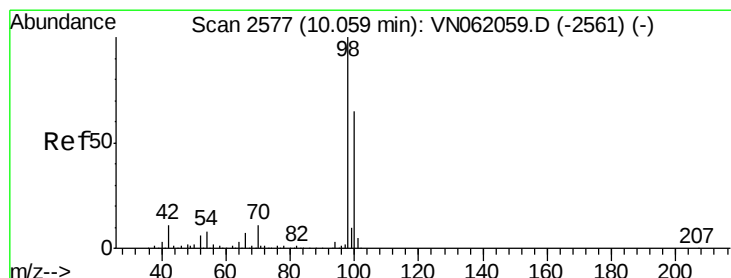
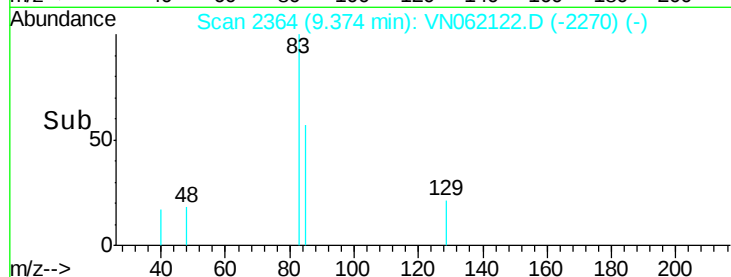
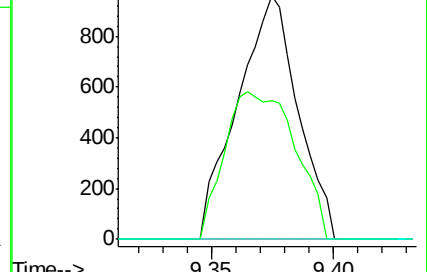
127 0.0 6.9 10.3#



Abundance Ion 82.90 (82.60 to 83.60): VN062122.D (-2270) (-)

Ion 84.90 (84.60 to 85.60): VN062122.D (-2270) (-)

Ion 126.80 (126.50 to 127.50): VN062122.D (-2270) (-)



#50

Toluene-d8

Concen: 47.756 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062122.D

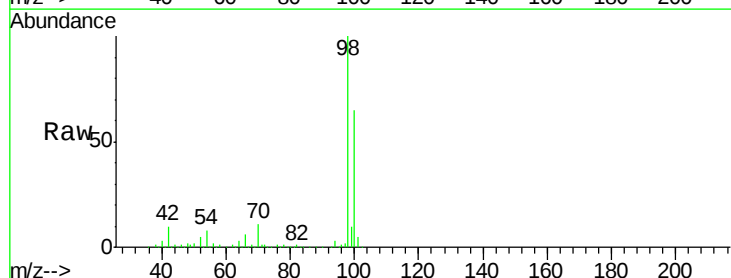
Acq: 25 Jun 2020 19:42

Tgt Ion: 98 Resp: 529867

Ion Ratio Lower Upper

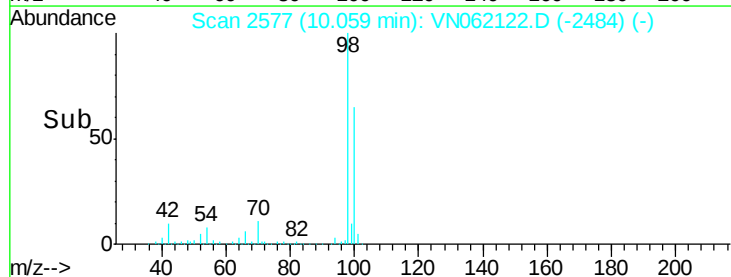
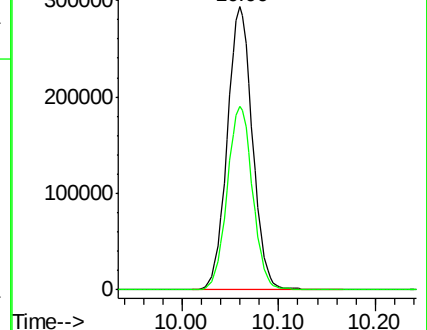
98 100

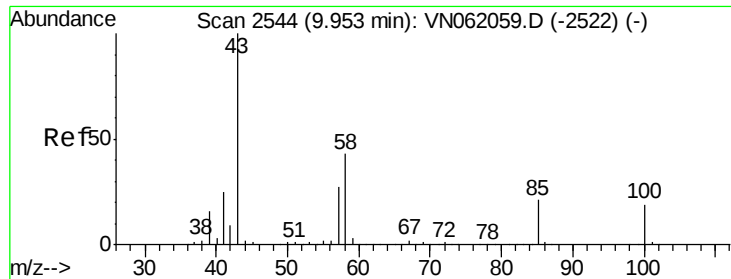
100 65.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062122.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062122.D (-2484) (-)

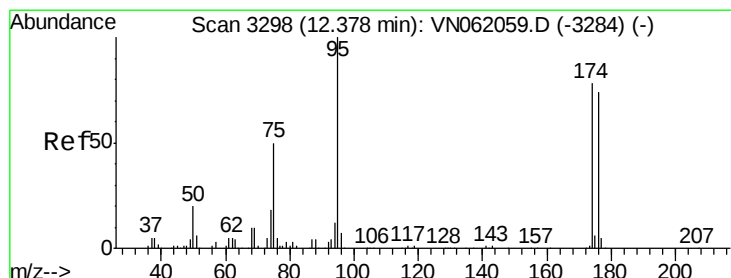
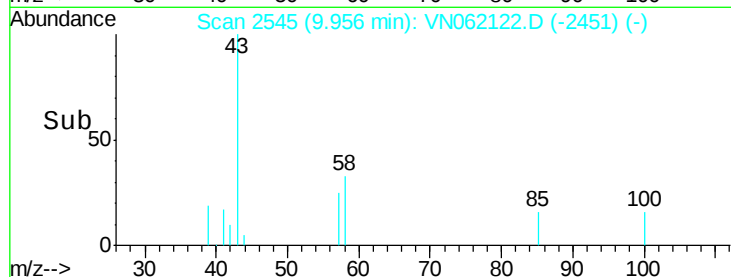
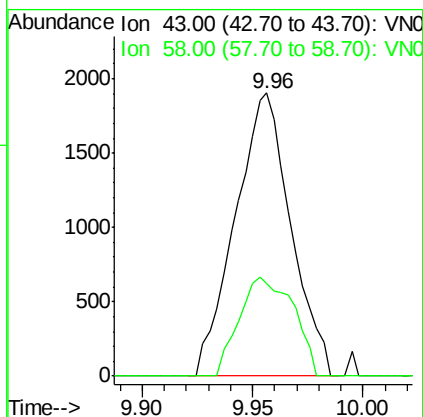
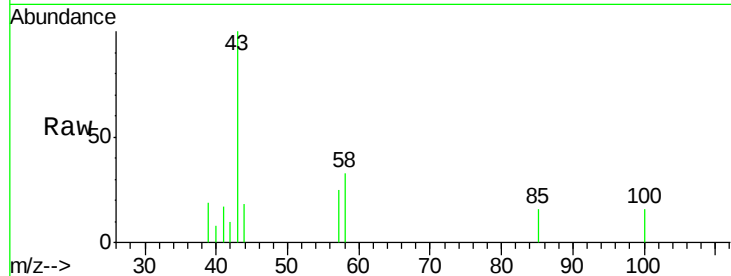




#51
4-Methyl-2-Pentanone
Concen: 0.970 ug/l
RT: 9.96 min Scan# 2545
Delta R.T. 0.00 min
Lab File: VN062122.D
Acq: 25 Jun 2020 19:42

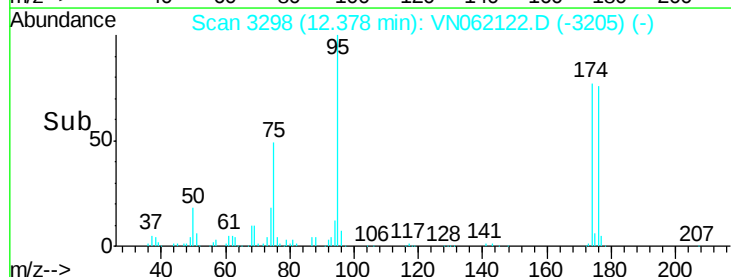
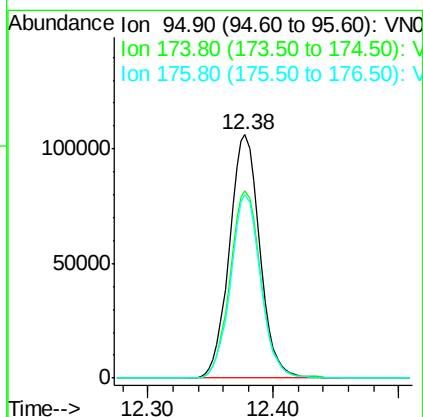
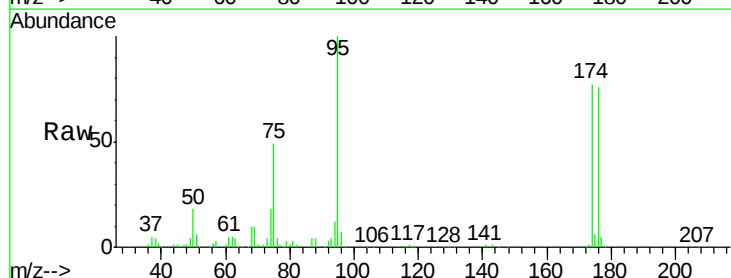
Instrument :
MSVOA_N
ClientSampleId :
FM1296

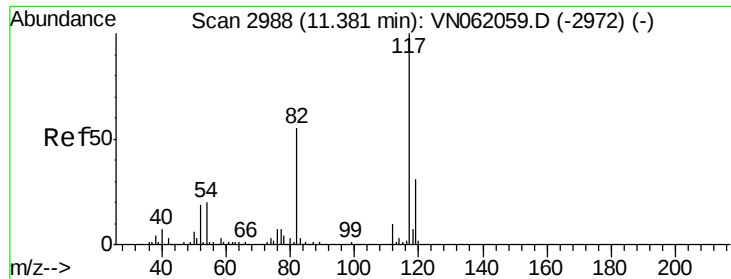
Tgt Ion: 43 Resp: 3326
Ion Ratio Lower Upper
43 100
58 34.1 34.2 51.2#



#62
4-Bromofluorobenzene
Concen: 47.663 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062122.D
Acq: 25 Jun 2020 19:42

Tgt Ion: 95 Resp: 178672
Ion Ratio Lower Upper
95 100
174 78.2 0.0 154.8
176 74.6 0.0 147.4

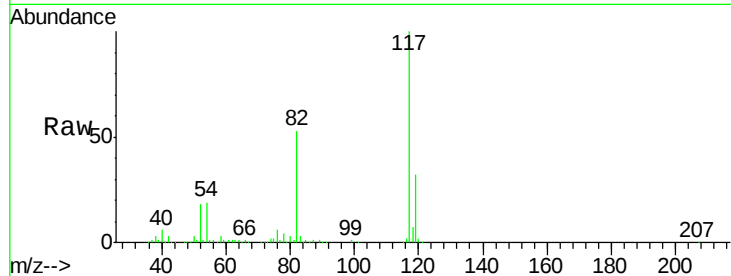




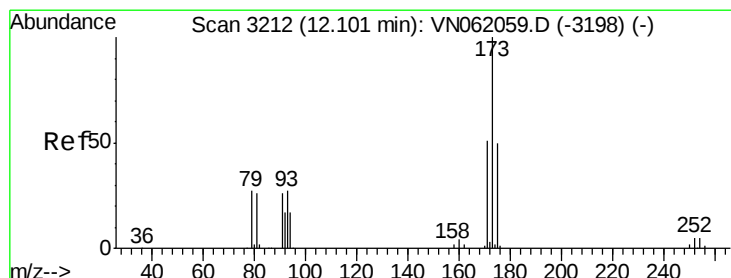
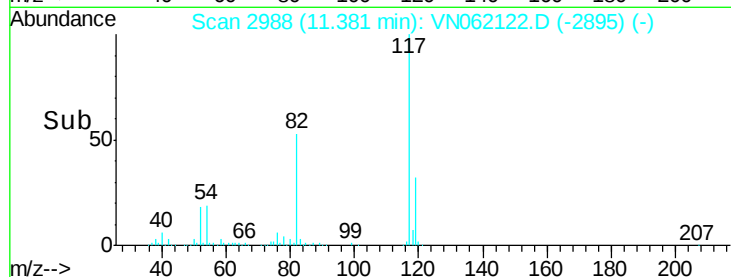
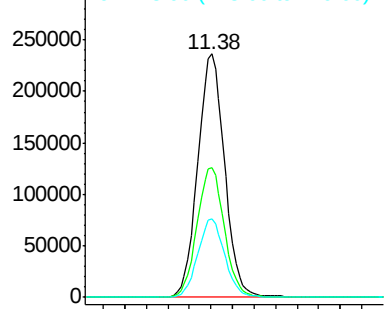
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062122.D
Acq: 25 Jun 2020 19:42

Instrument :
MSVOA_N
ClientSampleId :
FM1296

Tgt Ion:117 Resp: 410692
Ion Ratio Lower Upper
117 100
82 53.5 43.8 65.8
119 32.3 25.2 37.8

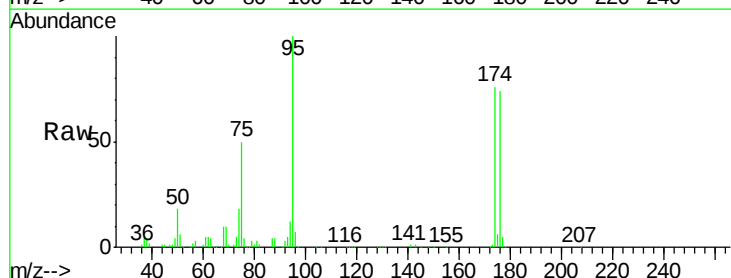


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

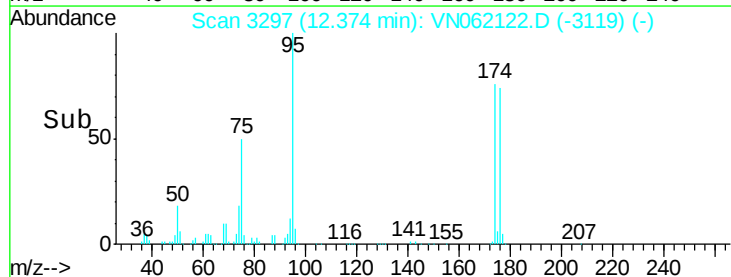
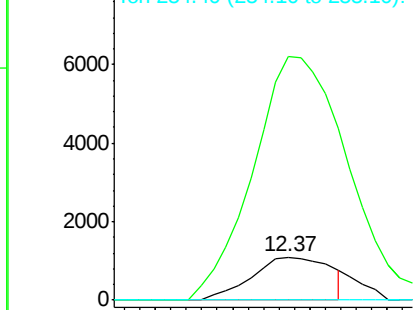


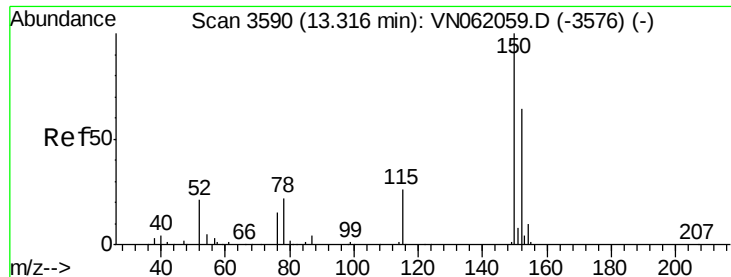
#71
Bromoform
Concen: 0.697 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN062122.D
Acq: 25 Jun 2020 19:42

Tgt Ion:173 Resp: 1546
Ion Ratio Lower Upper
173 100
175 567.6 24.7 74.1#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062122.D

Acq: 25 Jun 2020 19:42

Instrument :

MSVOA_N

ClientSampleId :

FM1296

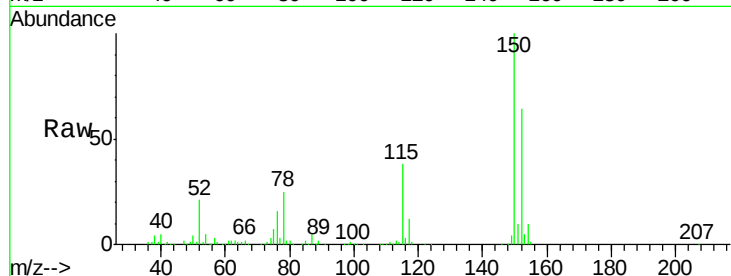
Tgt Ion:152 Resp: 156034

Ion Ratio Lower Upper

152 100

115 59.2 29.5 88.5

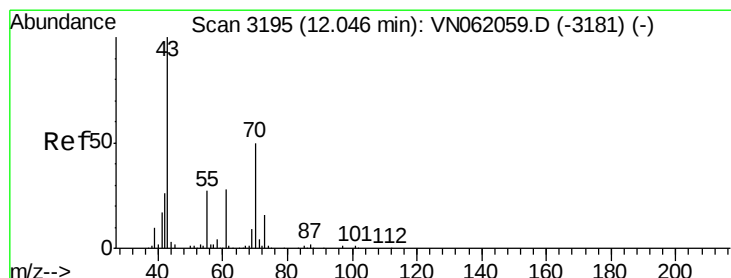
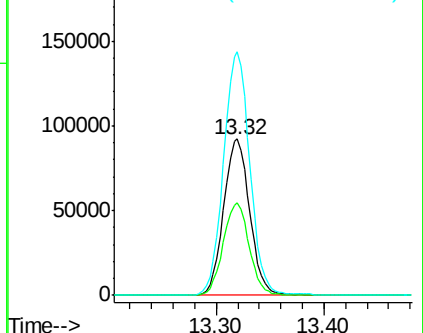
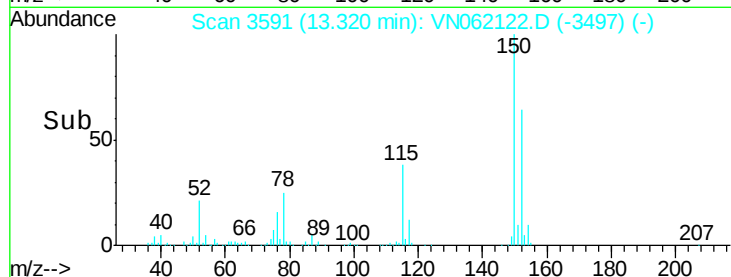
150 156.4 0.0 351.4



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: 3.388 ug/l

RT: 12.05 min Scan# 3195

Delta R.T. 0.00 min

Lab File: VN062122.D

Acq: 25 Jun 2020 19:42

Tgt Ion: 43 Resp: 216

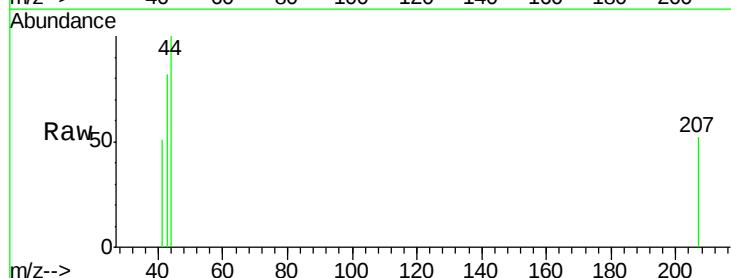
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

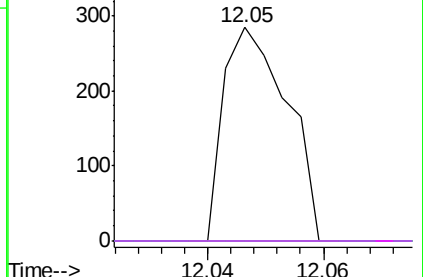
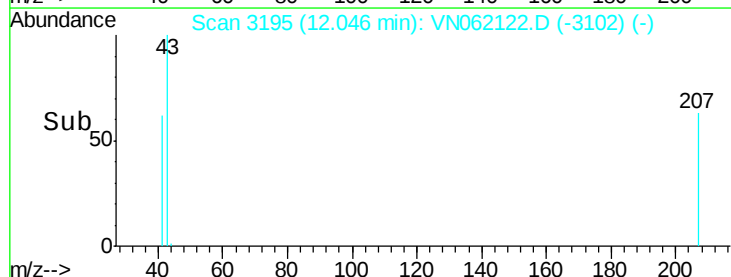


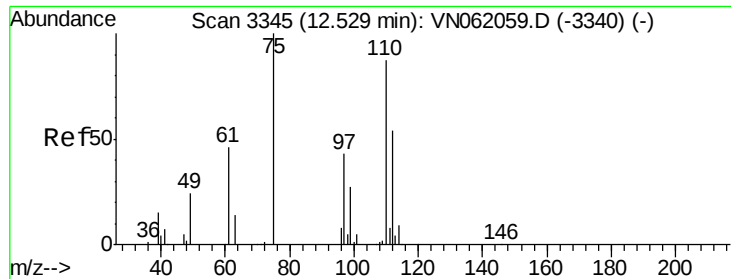
Abundance Ion 43.00 (42.70 to 43.70): V

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

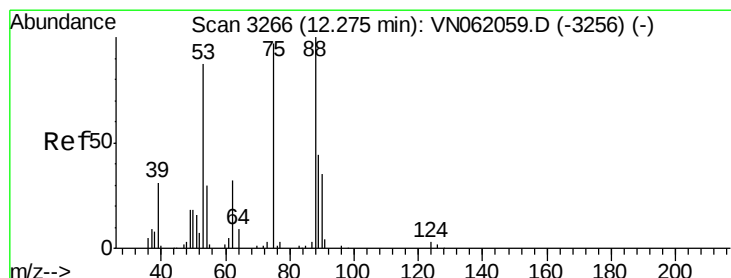
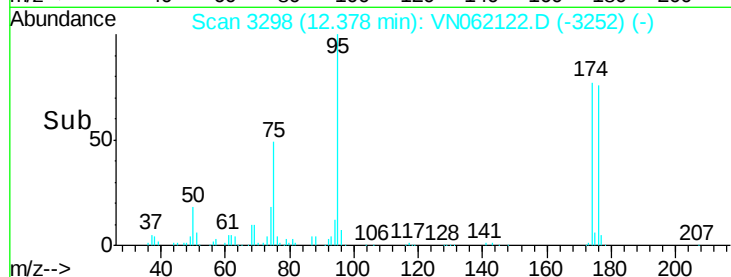
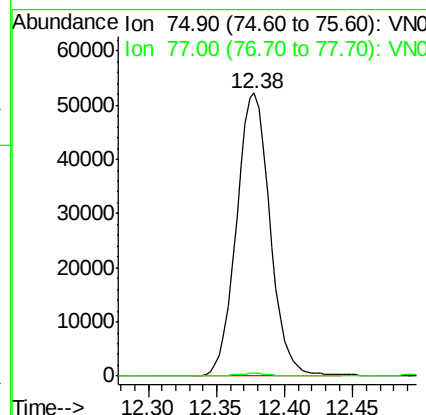
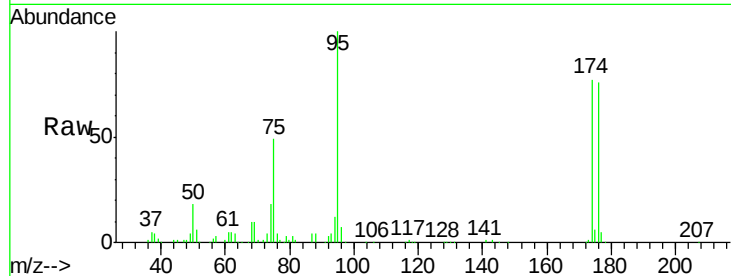




#76
 1,2,3-Trichloropropane
 Concen: 24.304 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062122.D
 Acq: 25 Jun 2020 19:42

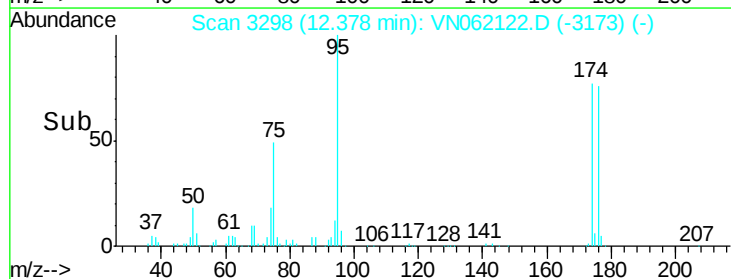
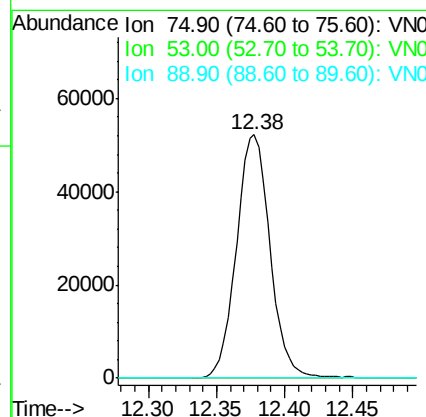
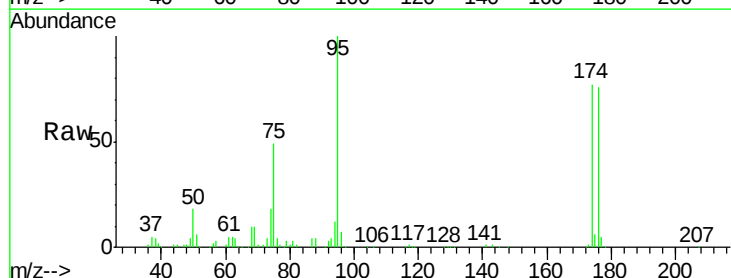
Instrument :
 MSVOA_N
 ClientSampleId :
 FM1296

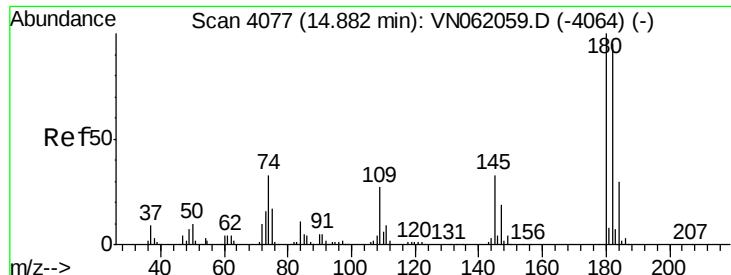
Tgt Ion: 75 Resp: 89272
 Ion Ratio Lower Upper
 75 100
 77 0.9 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.976 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062122.D
 Acq: 25 Jun 2020 19:42

Tgt Ion: 75 Resp: 89272
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.0 108.0#
 89 0.0 36.9 55.3#

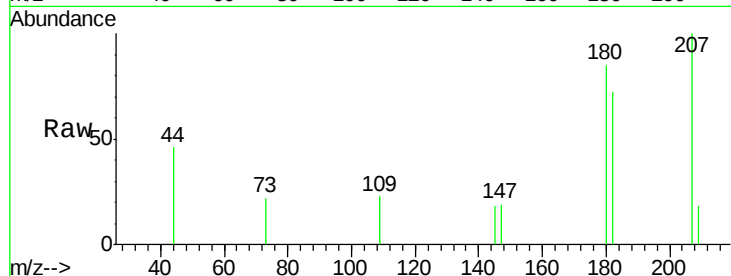




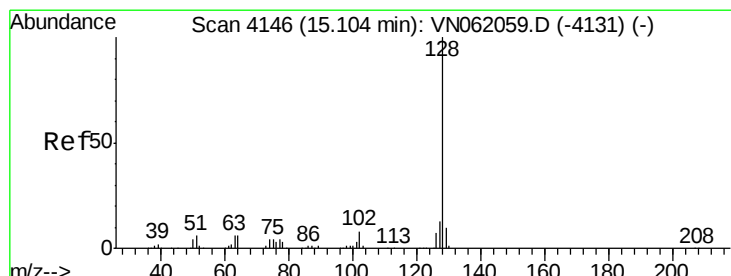
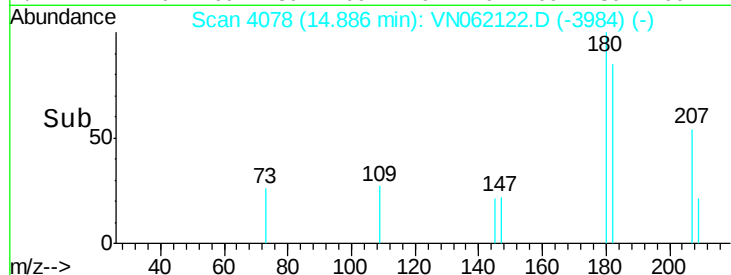
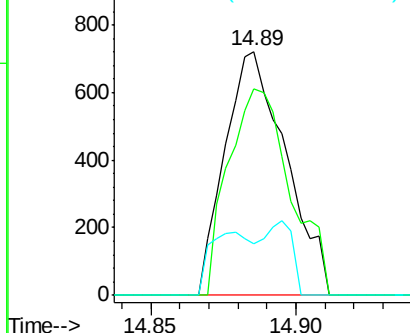
#93
 1,2,4-Trichlorobenzene
 Concen: 0.472 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. 0.00 min
 Lab File: VN062122.D
 Acq: 25 Jun 2020 19:42

Instrument :
 MSVOA_N
 ClientSampled :
 FM1296

Tgt Ion:180 Resp: 1053
 Ion Ratio Lower Upper
 180 100
 182 86.3 48.0 144.2
 145 18.4 16.0 48.0

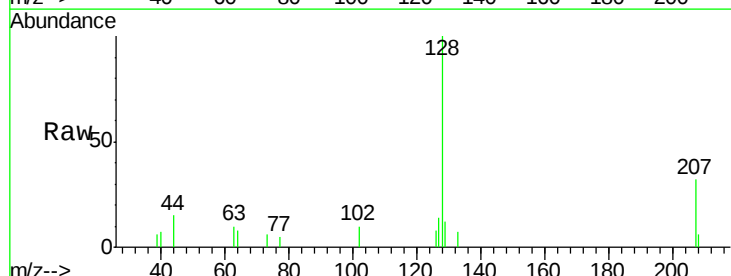


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

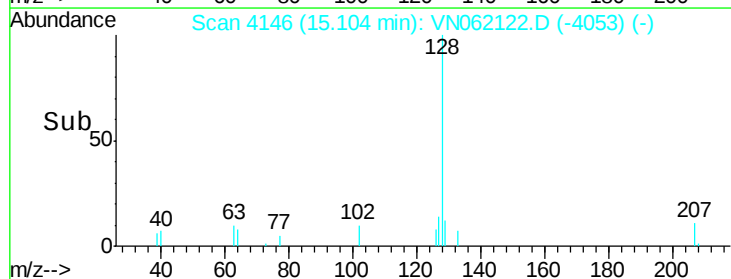
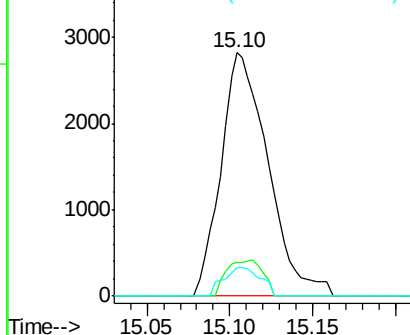


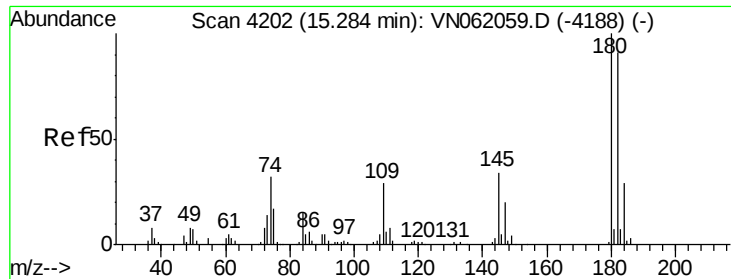
#95
 Naphthalene
 Concen: 4.684 ug/l
 RT: 15.10 min Scan# 4146
 Delta R.T. 0.00 min
 Lab File: VN062122.D
 Acq: 25 Jun 2020 19:42

Tgt Ion:128 Resp: 5568
 Ion Ratio Lower Upper
 128 100
 127 11.3 10.5 15.7
 129 9.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.325 ug/l
 RT: 15.28 min Scan# 4202
 Delta R.T. 0.00 min
 Lab File: VN062122.D
 Acq: 25 Jun 2020 19:42

Instrument :
 MSVOA_N
 ClientSampleId :
 FM1296

Tgt Ion:180 Resp: 741
 Ion Ratio Lower Upper
 180 100
 182 166.3 46.8 140.4#
 145 39.1 16.4 49.2

