

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080720\
 Data File : VN062792.D
 Acq On : 7 Aug 2020 20:31
 Operator : JC/MD
 Sample : L3594-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3

Quant Time: Aug 08 02:15:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080520W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:26:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	127300	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	238264	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	242601	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	84720	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	112386	53.39	ug/l	0.00
Spiked Amount			Recovery	=	106.78%	
35) Dibromofluoromethane	7.55	113	80339	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	
50) Toluene-d8	10.06	98	313092	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
62) 4-Bromofluorobenzene	12.38	95	108430	45.09	ug/l	0.00
Spiked Amount			Recovery	=	90.18%	

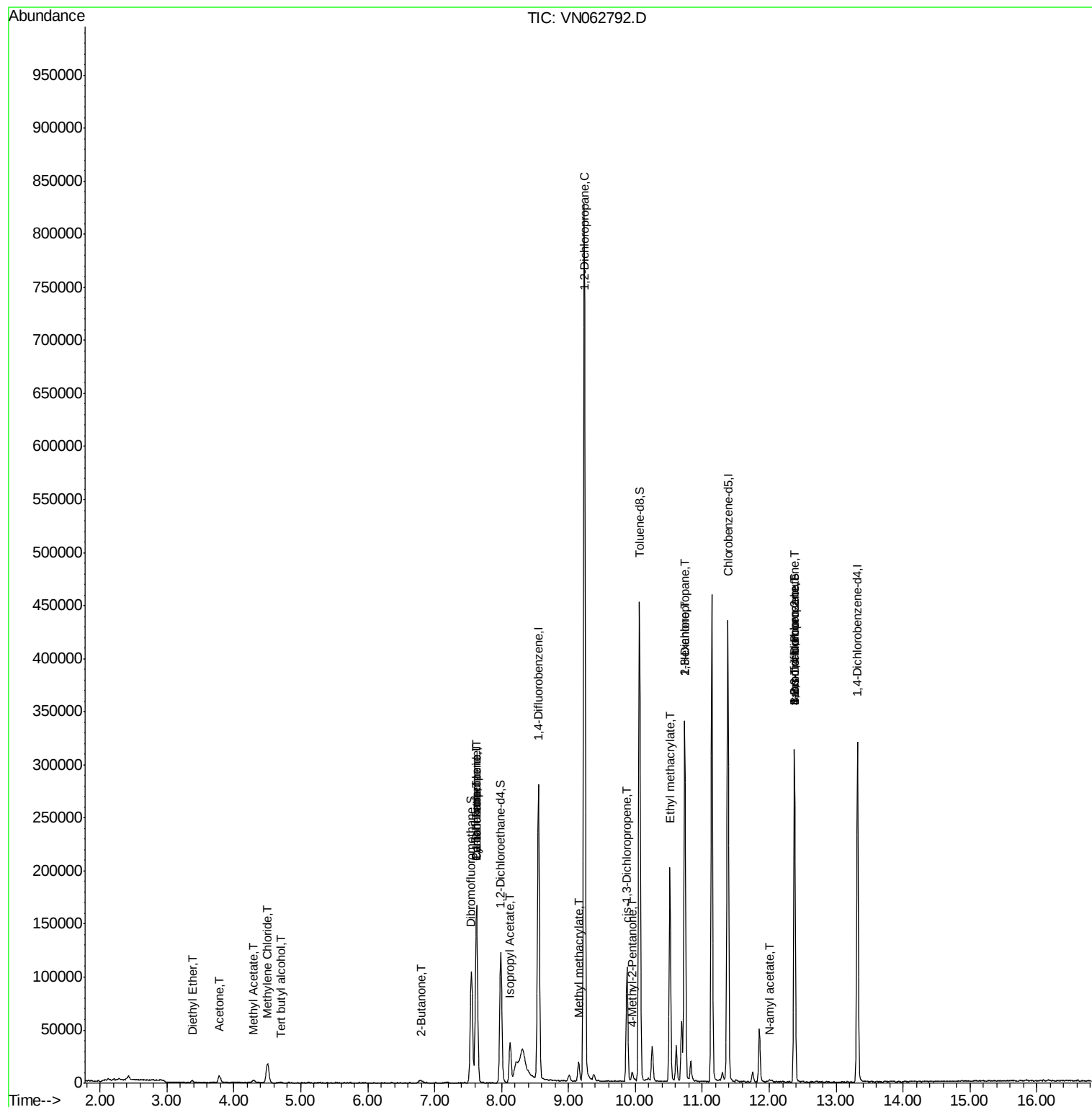
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.38	74	767	0.931	ug/l	89
11) Tert butyl alcohol	4.71	59	168	0.487	ug/l #	72
16) Acetone	3.78	43	11754	15.452	ug/l	93
17) Carbon Disulfide	4.01	76	108	Below Cal	#	74
18) Methyl Acetate	4.29	43	5033	1.706	ug/l #	81
20) Methylene Chloride	4.50	84	14146	9.547	ug/l	96
25) 2-Butanone	6.80	43	2703	2.509	ug/l #	87
31) Cyclohexane	7.63	56	2866	1.123	ug/l #	20
36) 1,1-Dichloropropene	7.62	75	10682	4.604	ug/l #	52
38) Carbon Tetrachloride	7.62	117	13174	4.801	ug/l #	15
43) Isopropyl Acetate	8.13	43	45200	11.182	ug/l	99
45) 1,2-Dichloropropane	9.24	63	929	0.496	ug/l #	45
48) Methyl methacrylate	9.15	41	2813	1.415	ug/l #	13
51) 4-Methyl-2-Pentanone	9.95	43	6194	2.368	ug/l	100
54) cis-1,3-Dichloropropene	9.88	75	18122	5.951	ug/l #	62
56) Ethyl methacrylate	10.52	69	1320	0.480	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3174	1.023	ug/l #	43
59) 2-Hexanone	10.74	43	48941	25.086	ug/l #	53
71) Bromoform	12.38	173	532	0.319	ug/l #	1
74) N-amyl acetate	12.01	43	2025	0.783	ug/l #	44
76) 1,2,3-Trichloropropane	12.38	75	58545	25.624	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	58545	78.222	ug/l #	10

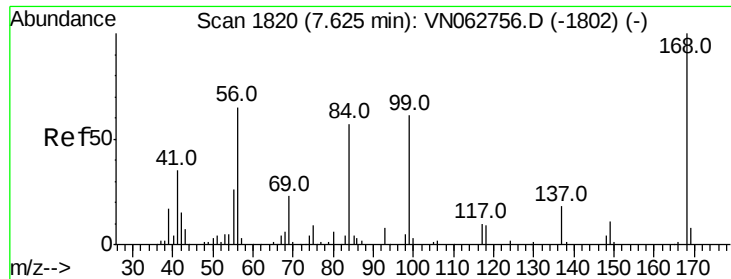
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 05 13:26:42 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062792.D

Acq: 7 Aug 2020 20:31

Instrument :

MSVOA_N

ClientSampled :

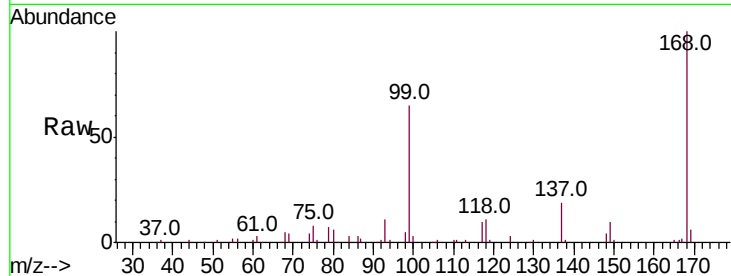
TP-3

Tot Ion:168 Resp: 127300

Ion Ratio Lower Upper

168 100

99 65.4 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

50000

40000

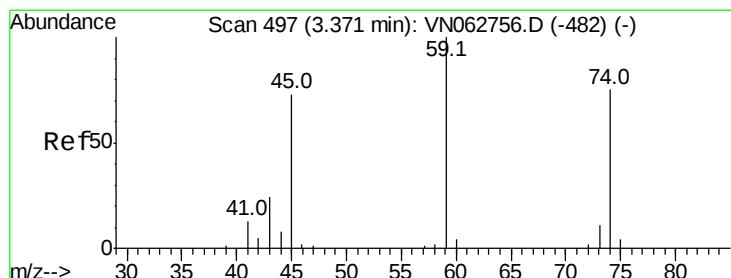
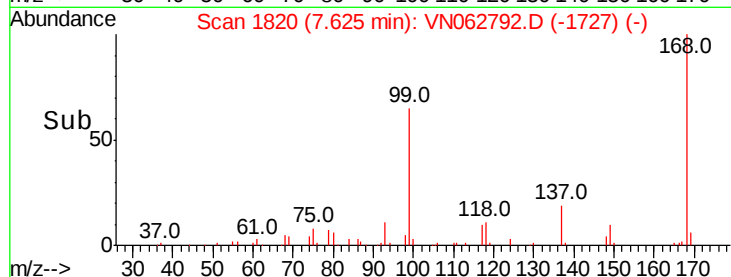
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#8

Diethyl Ether

Concen: 0.931 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.01 min

Lab File: VN062792.D

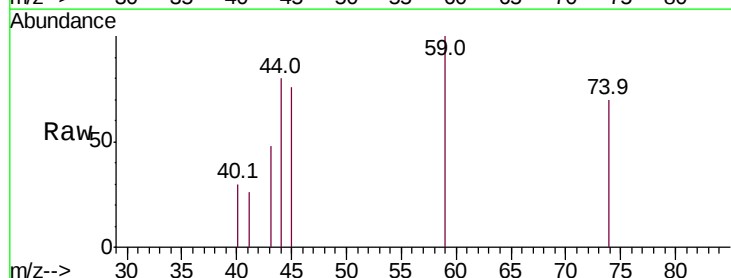
Acq: 7 Aug 2020 20:31

Tgt Ion: 74 Resp: 767

Ion Ratio Lower Upper

74 100

45 86.3 48.7 146.1



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN

3.38

600

500

400

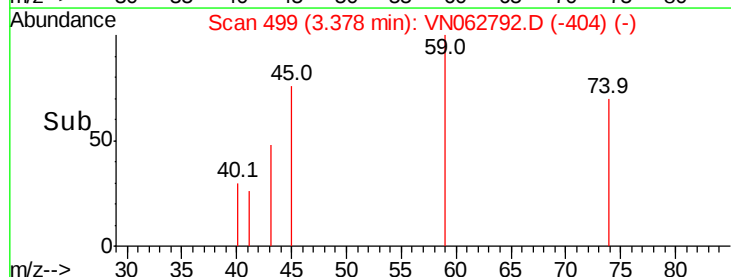
300

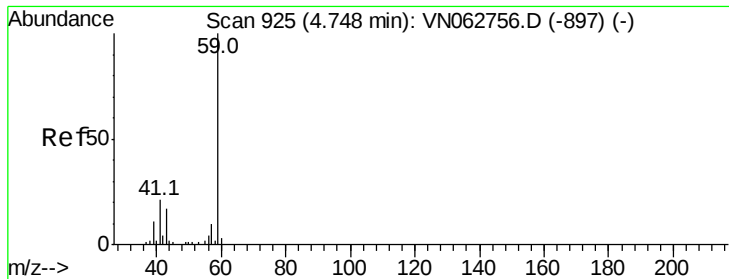
200

100

0

Time--> 3.34 3.36 3.38 3.40



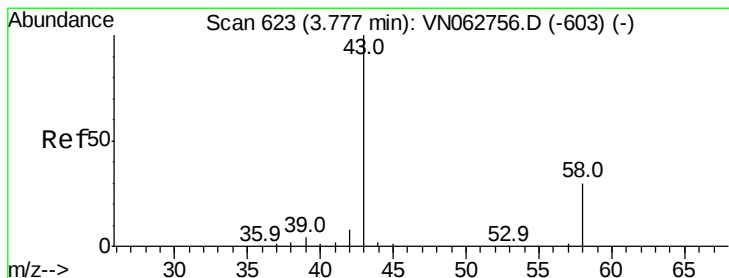
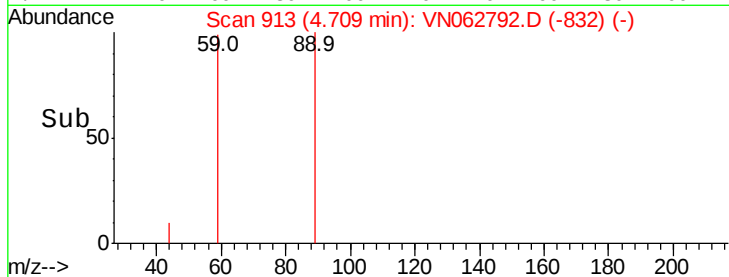
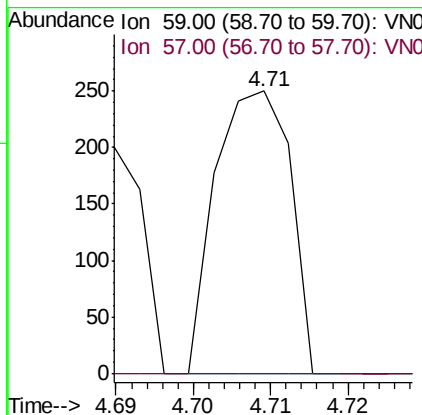
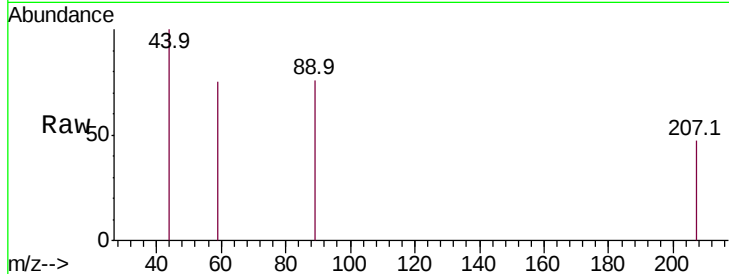


#11

Tert butyl alcohol
Concen: 0.487 ug/l
RT: 4.71 min Scan# 913
Delta R.T. -0.04 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

Instrument :
MSVOA_N
ClientSampled :
TP-3

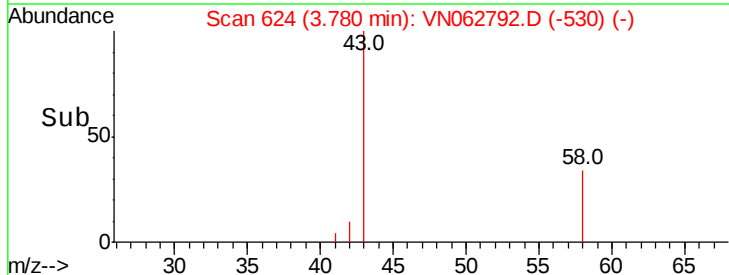
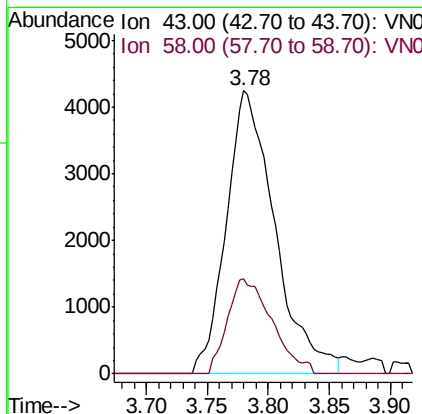
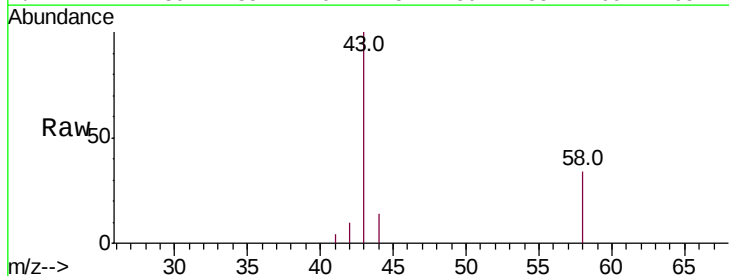
Tot Ion: 59 Resp: 168
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

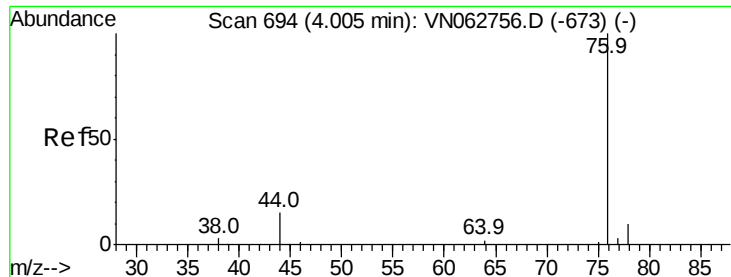


#16

Acetone
Concen: 15.452 ug/l
RT: 3.78 min Scan# 624
Delta R.T. 0.00 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

Tgt Ion: 43 Resp: 11754
Ion Ratio Lower Upper
43 100
58 33.8 24.1 36.1

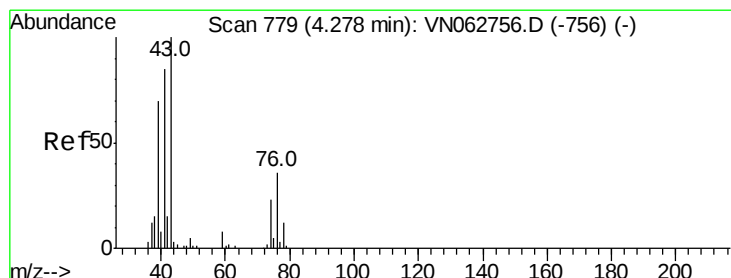
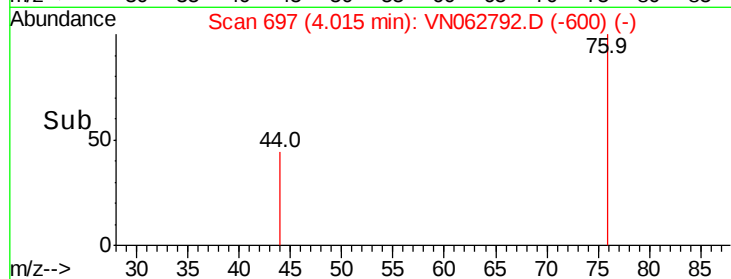
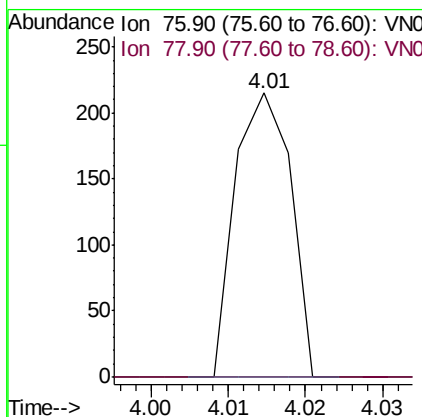
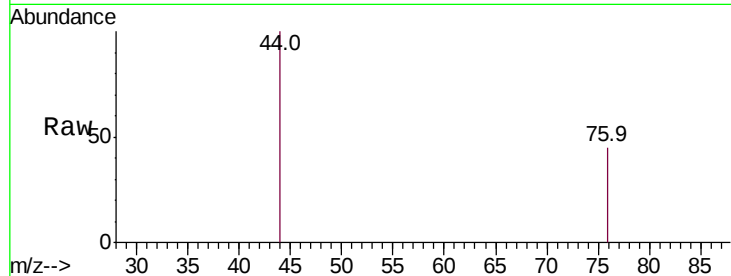




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.01 min Scan# 697
Delta R.T. 0.01 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

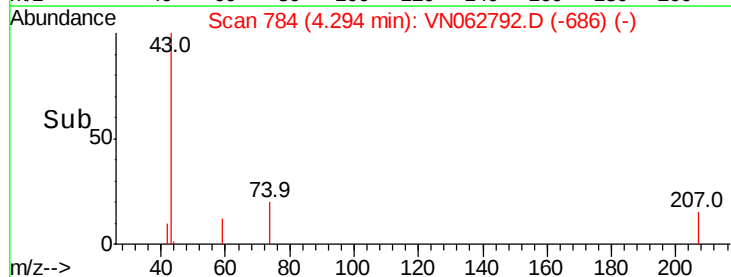
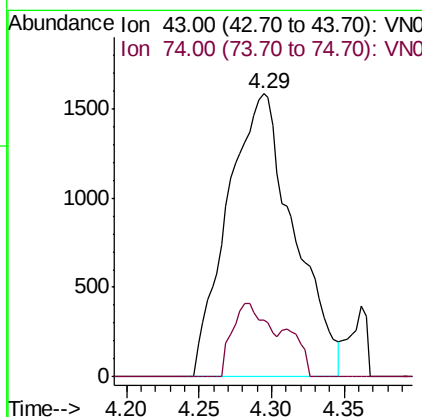
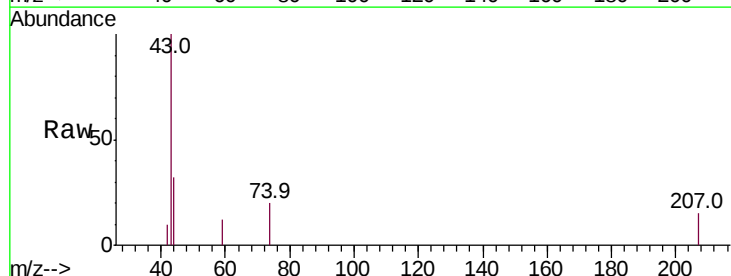
Instrument :
MSVOA_N
ClientSampleId :
TP-3

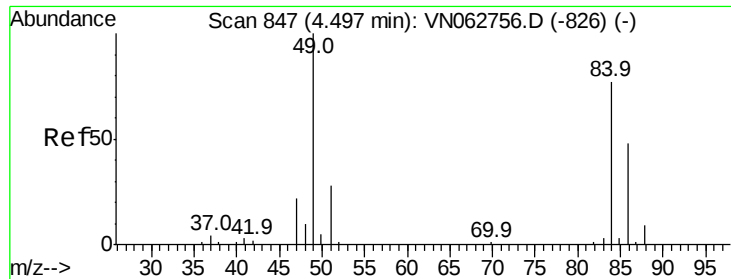
Tot Ion: 76 Resp: 108
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



#18
Methyl Acetate
Concen: 1.706 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.02 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

Tgt Ion: 43 Resp: 5033
Ion Ratio Lower Upper
43 100
74 14.1 18.6 28.0#

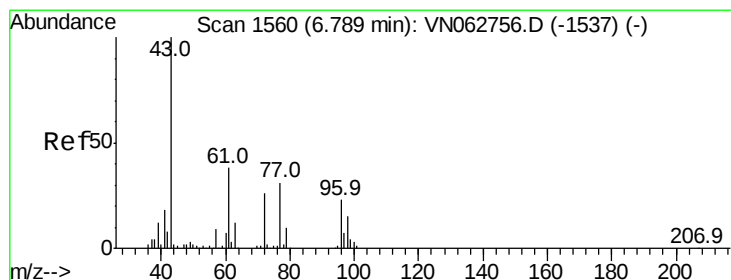
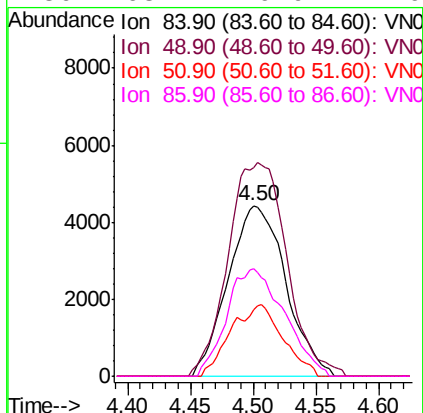
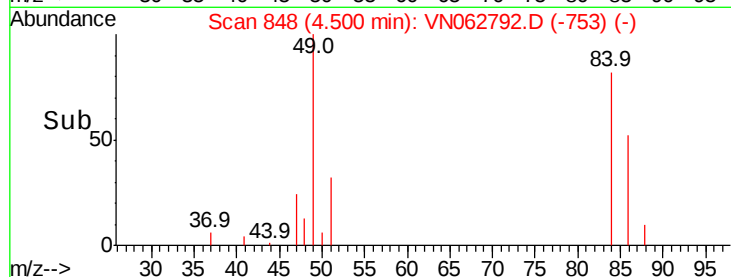
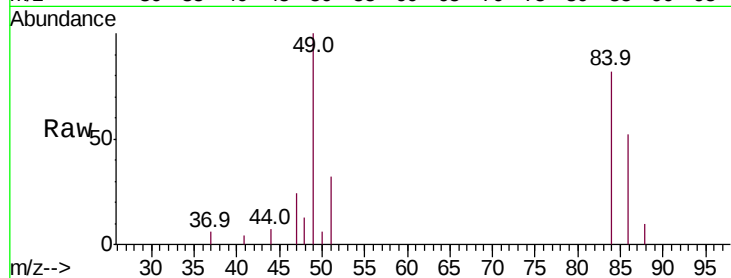




#20
Methvlene Chloride
Concen: 9.547 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

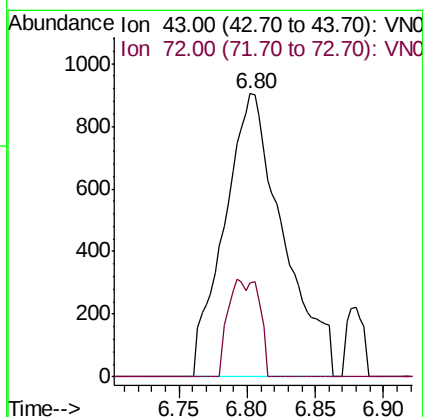
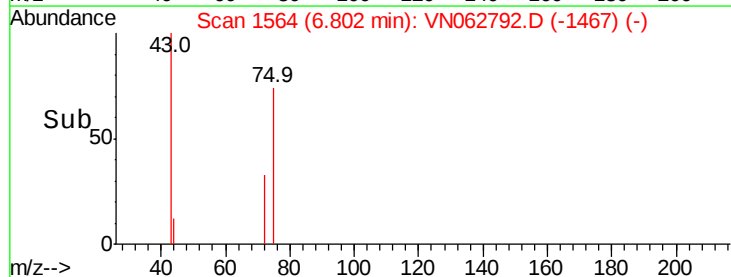
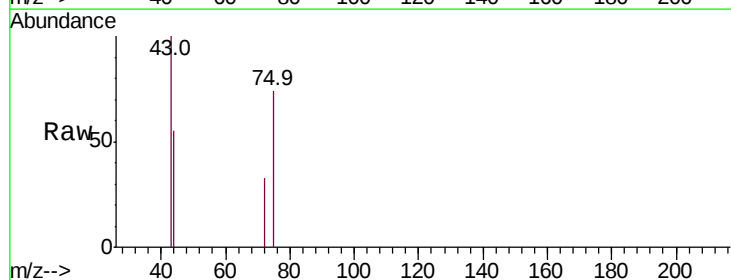
Instrument :
MSVOA_N
ClientSampled :
TP-3

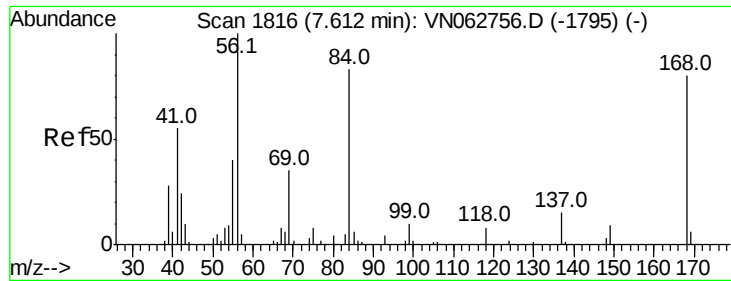
Tot Ion: 84 Resp: 14146
Ion Ratio Lower Upper
84 100
49 122.5 103.4 155.2
51 39.0 29.3 43.9
86 63.2 49.9 74.9



#25
2-Butanone
Concen: 2.509 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

Tgt Ion: 43 Resp: 2703
Ion Ratio Lower Upper
43 100
72 33.2 21.1 31.7#

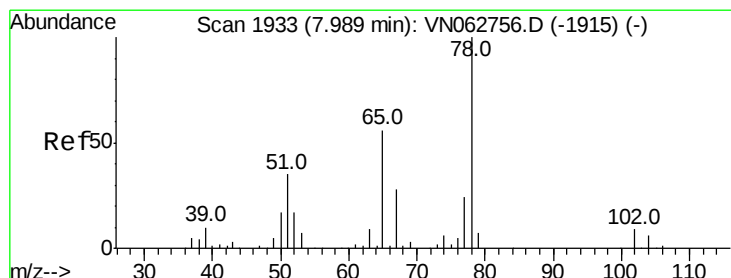
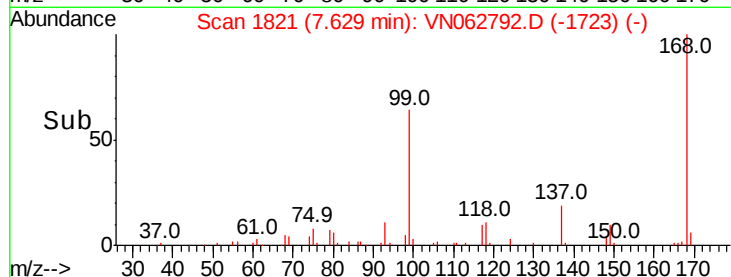
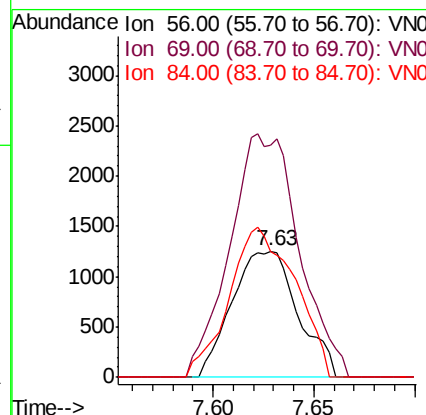
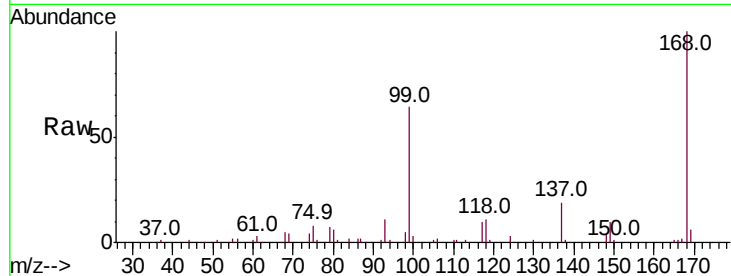




#31
Cyclohexane
Concen: 1.123 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

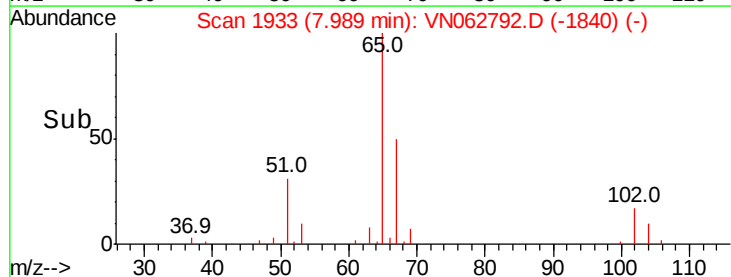
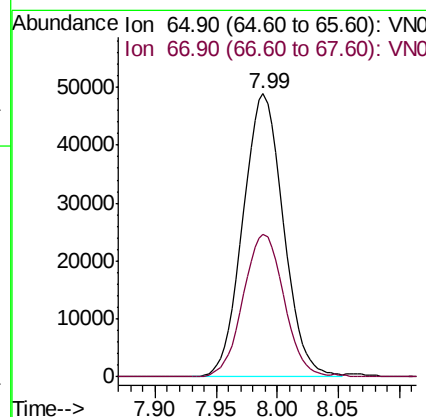
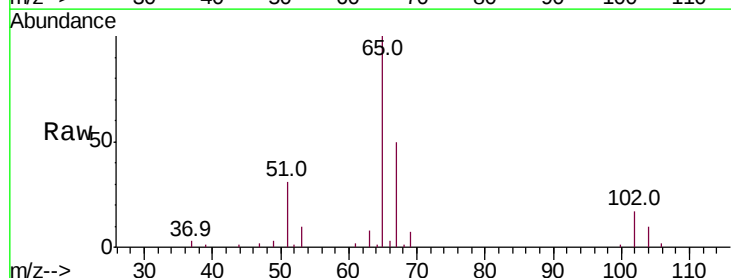
Instrument :
MSVOA_N
ClientSampled :
TP-3

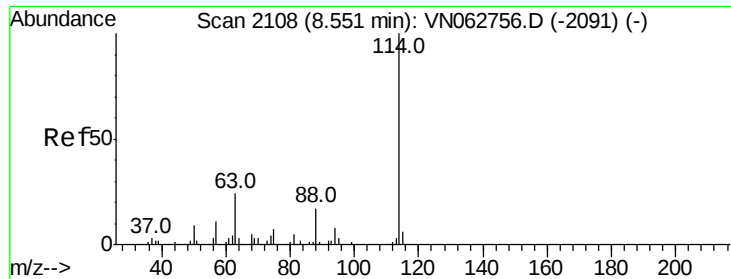
Tot Ion: 56 Resp: 2866
Ion Ratio Lower Upper
56 100
69 167.6 28.1 42.1#
84 99.6 66.8 100.2



#33
1,2-Dichloroethane-d4
Concen: 53.386 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

Tgt Ion: 65 Resp: 112386
Ion Ratio Lower Upper
65 100
67 50.9 0.0 101.4

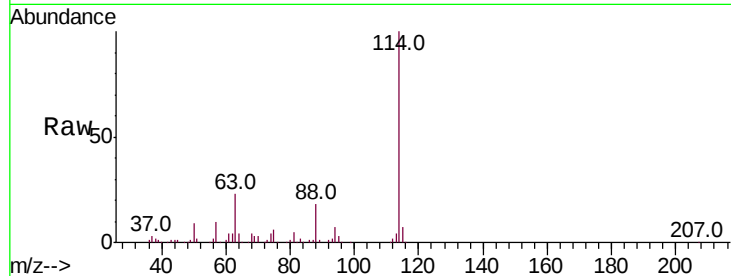




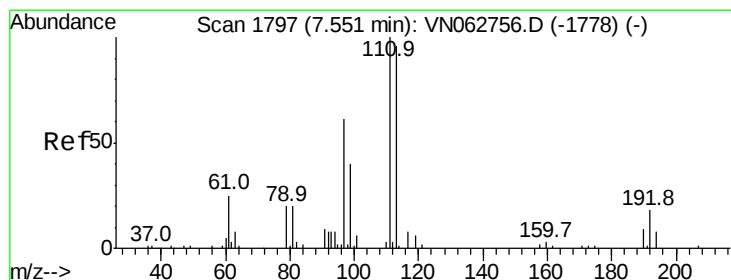
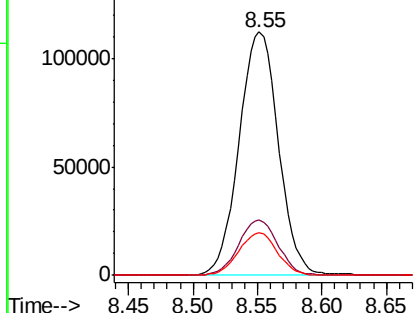
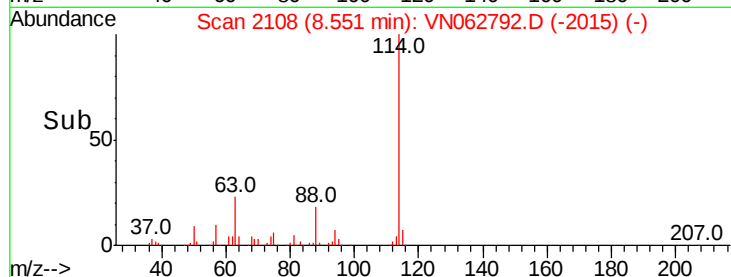
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. 0.00 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

Instrument :
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Tot Ion:114 Resp: 238264
Ion Ratio Lower Upper
114 100
63 22.6 0.0 47.6
88 17.5 0.0 34.4

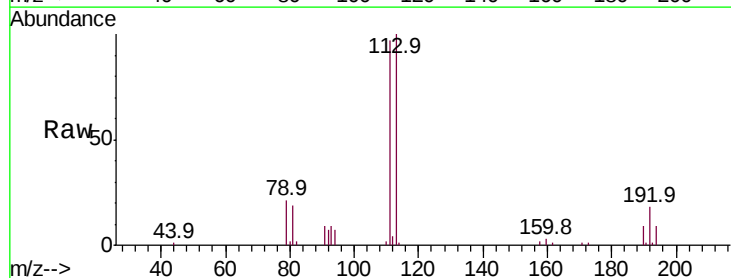


Abundance Ion 113.90 (113.60 to 114.60): V
150000 Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

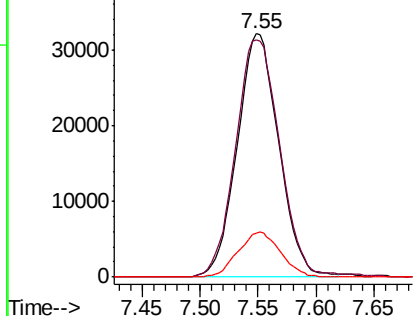
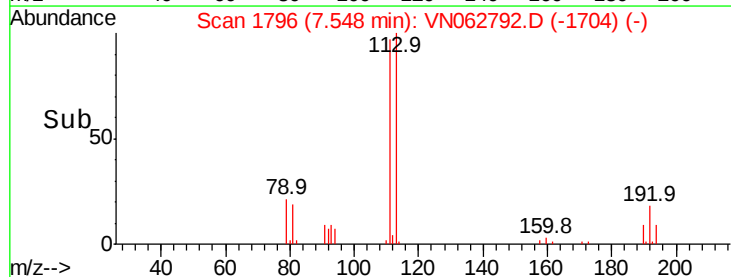


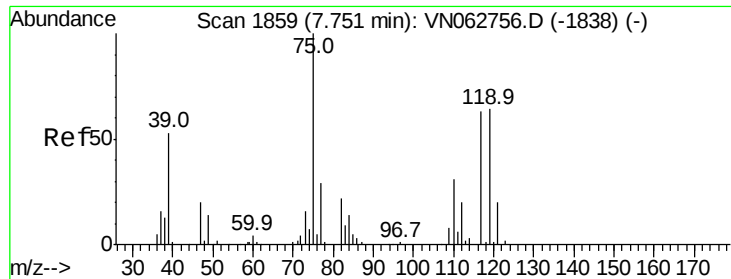
#35
Dibromofluoromethane
Concen: 49.292 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

Tgt Ion:113 Resp: 80339
Ion Ratio Lower Upper
113 100
111 103.3 81.8 122.6
192 18.7 15.0 22.4



Abundance Ion 112.80 (112.50 to 113.50): V
40000 Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

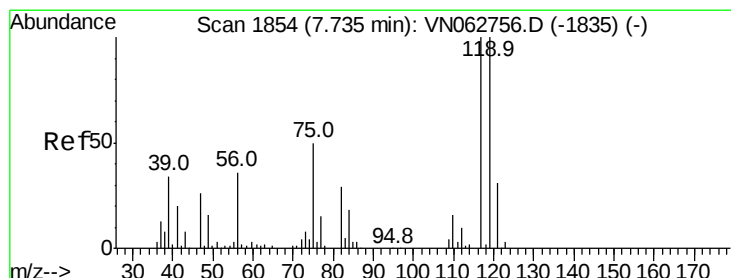
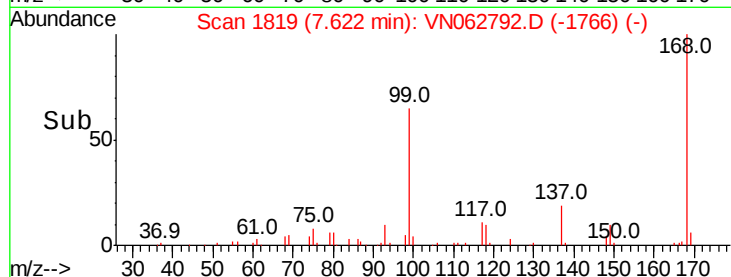
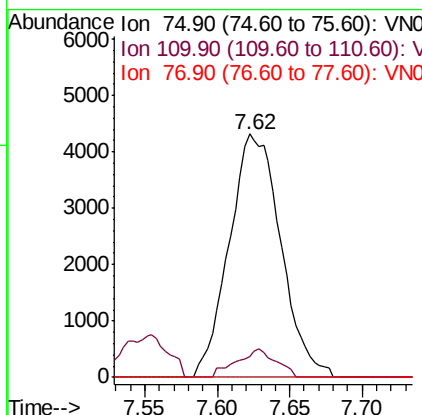
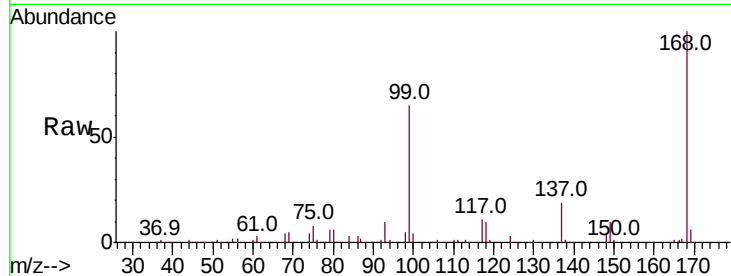




#36
 1,1-Dichloropropene
 Concen: 4.604 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062792.D
 Acq: 7 Aug 2020 20:31

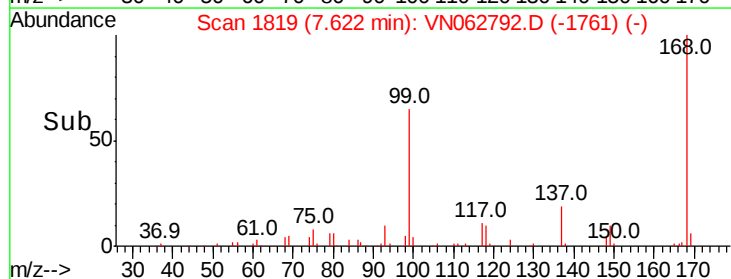
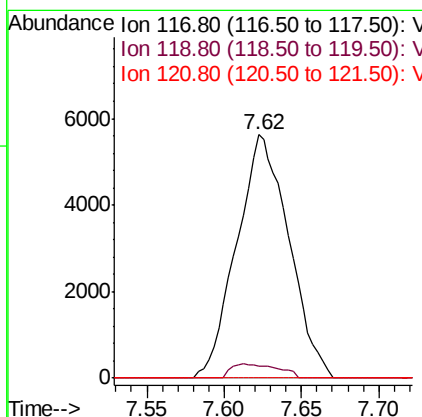
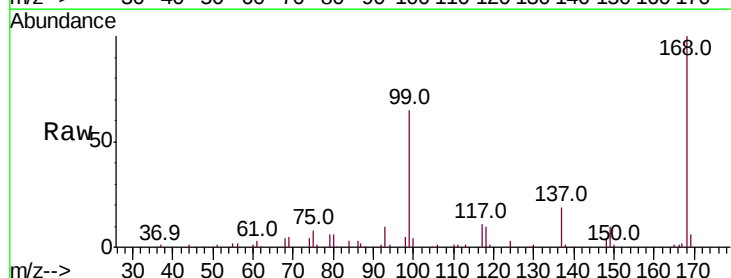
Instrument :
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 TP-3

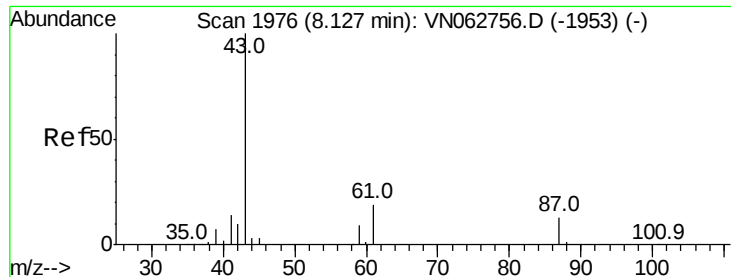
Tot Ion	75	Resp	10682
Ion Ratio	Lower	Upper	
75	100		
110	8.9	15.6	46.7#
77	0.0	24.1	36.1#



#38
 Carbon Tetrachloride
 Concen: 4.801 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.11 min
 Lab File: VN062792.D
 Acq: 7 Aug 2020 20:31

Tgt Ion	117	Resp	13174
Ion Ratio	Lower	Upper	
117	100		
119	5.1	79.4	119.2#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 11.182 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062792.D

Acq: 7 Aug 2020 20:31

Instrument :

MSVOA_N

ClientSampled :

TP-3

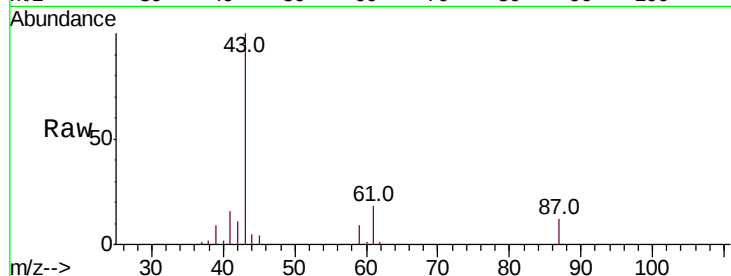
Tot Ion: 43 Resp: 45200

Ion Ratio Lower Upper

43 100

61 19.4 15.8 23.6

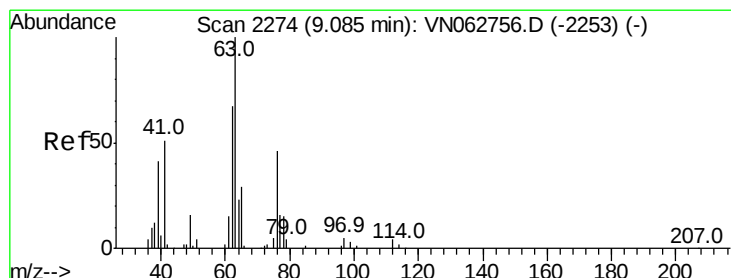
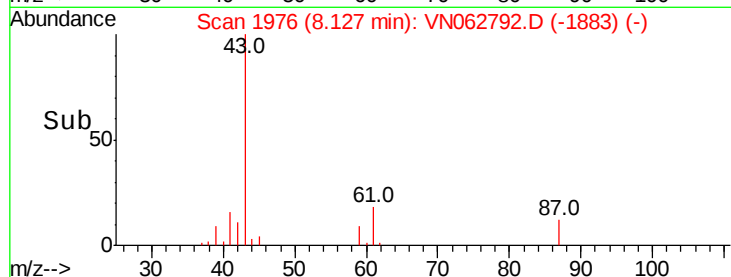
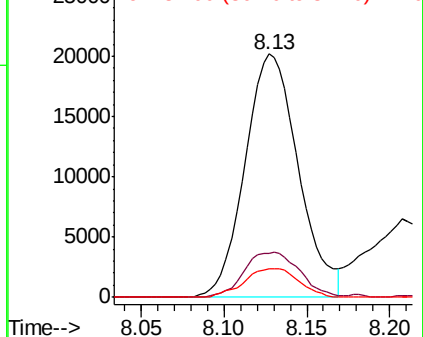
87 12.1 9.9 14.9



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO



#45

1,2-Dichloropropane

Concen: 0.496 ug/l

RT: 9.24 min Scan# 2322

Delta R.T. 0.15 min

Lab File: VN062792.D

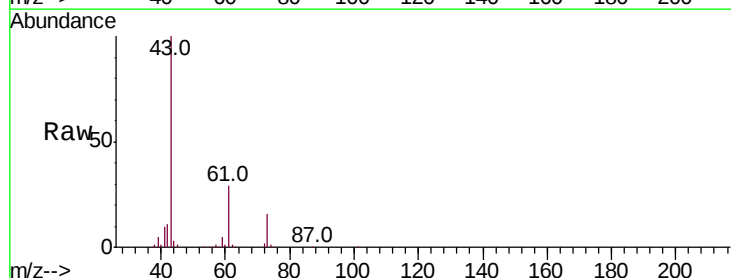
Acq: 7 Aug 2020 20:31

Tgt Ion: 63 Resp: 929

Ion Ratio Lower Upper

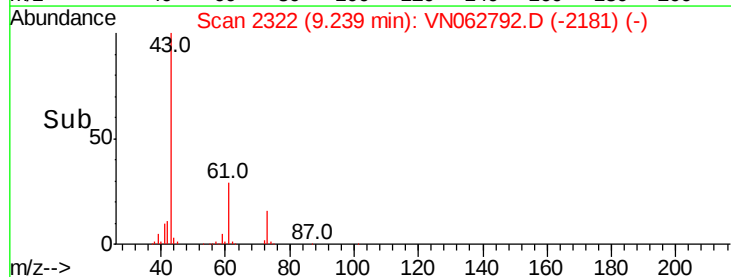
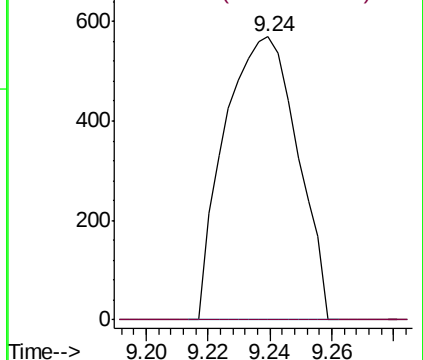
63 100

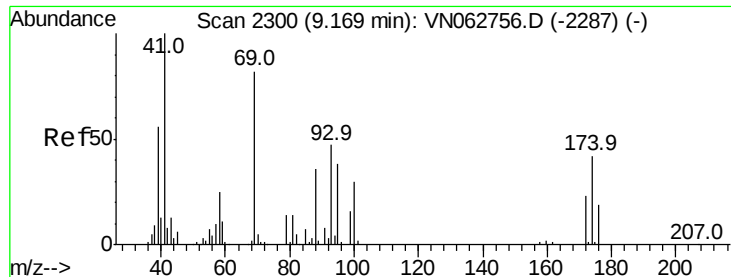
65 0.0 23.5 35.3#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

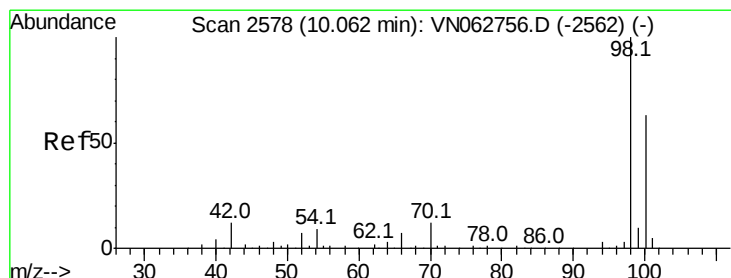
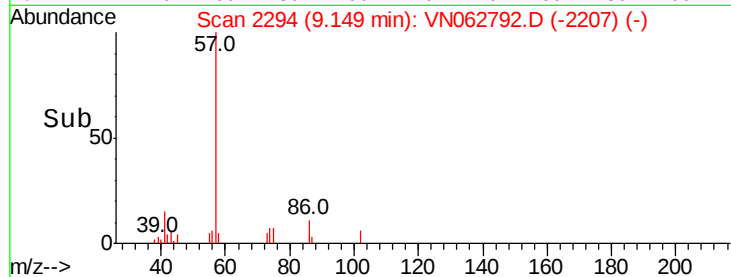
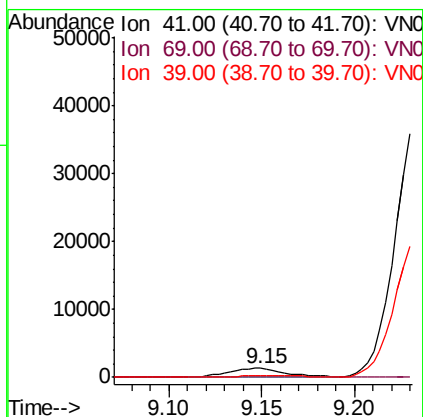
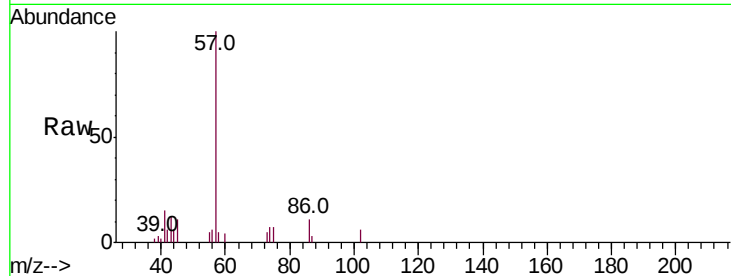




#48
Methvl methacrylate
Concen: 1.415 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

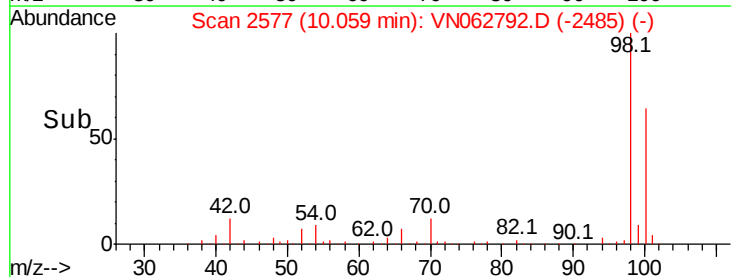
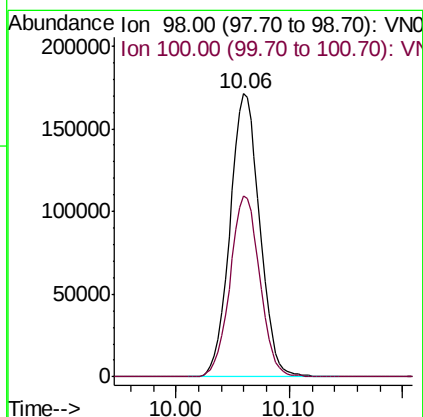
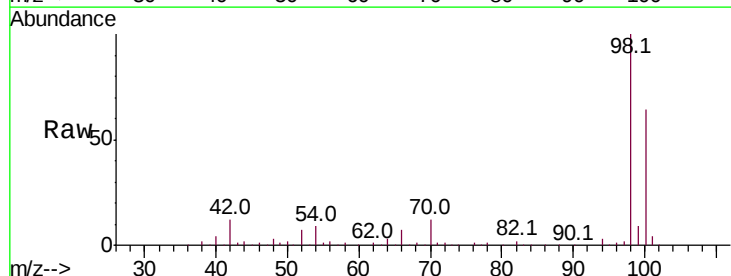
Instrument :
MSVOA_N
ClientSampled :
TP-3

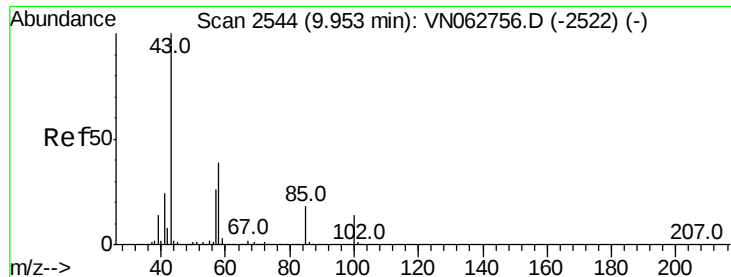
Tot Ion: 41 Resp: 2813
Ion Ratio Lower Upper
41 100
69 0.0 67.4 101.2#
39 0.0 47.6 71.4#



#50
Toluene-d8
Concen: 49.204 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

Tgt Ion: 98 Resp: 313092
Ion Ratio Lower Upper
98 100
100 64.0 50.9 76.3

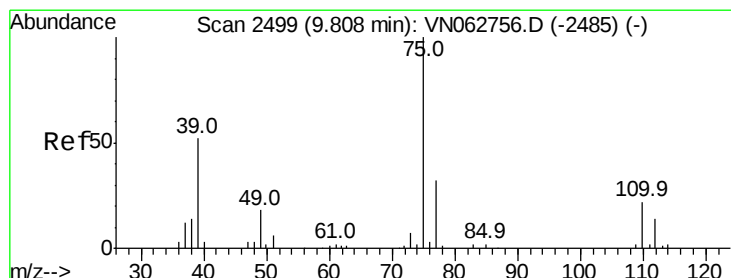
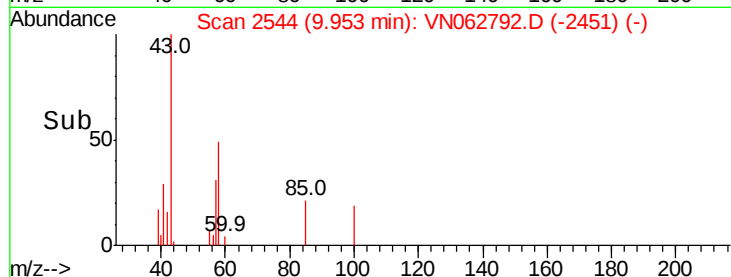
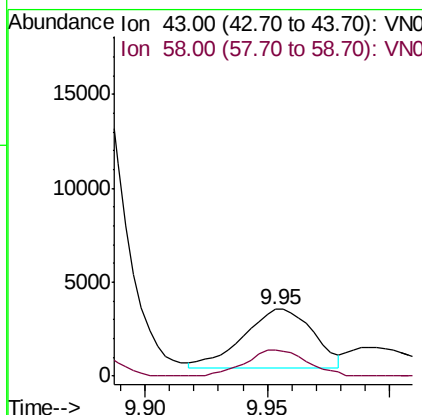
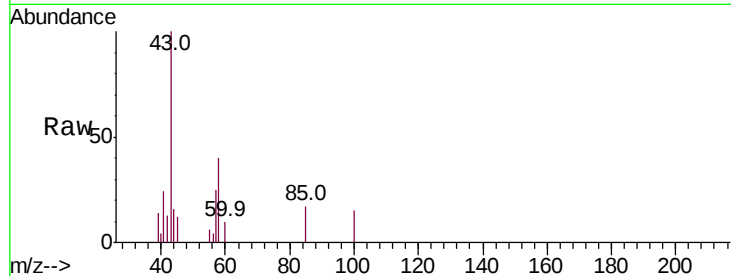




#51
 4-Methyl-2-Pentanone
 Concen: 2.368 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. 0.00 min
 Lab File: VN062792.D
 Acq: 7 Aug 2020 20:31

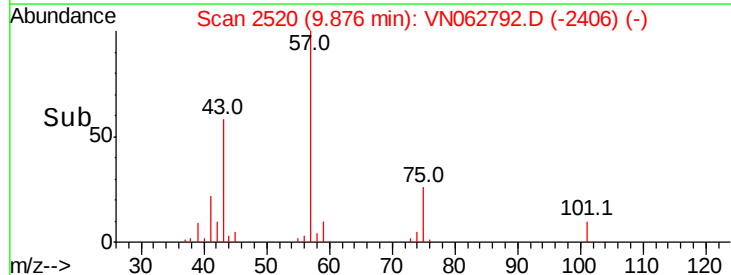
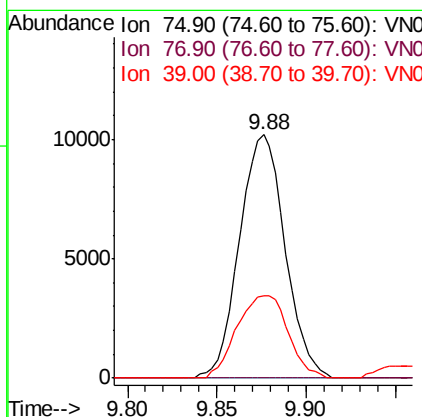
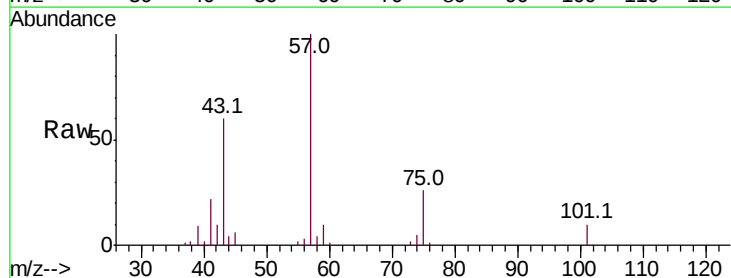
Instrument :
 MSVOA_N
 ClientSampled :
 TP-3

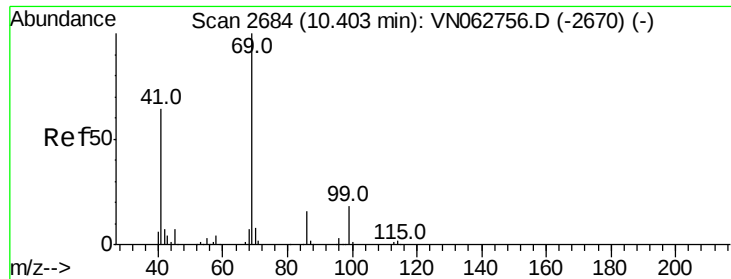
Tot Ion: 43 Resp: 6194
 Ion Ratio Lower Upper
 43 100
 58 39.1 31.1 46.7



#54
 cis-1,3-Dichloropropene
 Concen: 5.951 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062792.D
 Acq: 7 Aug 2020 20:31

Tgt Ion: 75 Resp: 18122
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 34.0 41.9 62.9#





#56

Ethyl methacrylate

Concen: 0.480 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.11 min

Lab File: VN062792.D

Acq: 7 Aug 2020 20:31

Instrument :

MSVOA_N

ClientSampleId :

TP-3

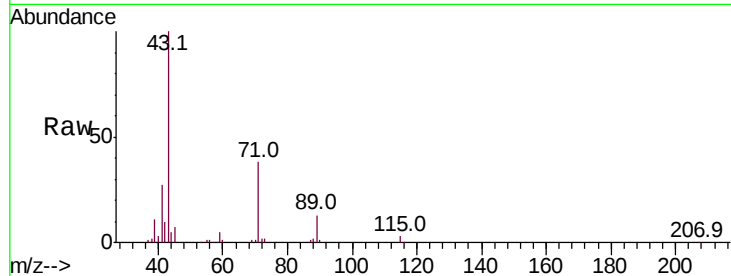
Tot Ion: 69 Resp: 1320

Ion Ratio Lower Upper

69 100

41 2915.2 52.2 78.2#

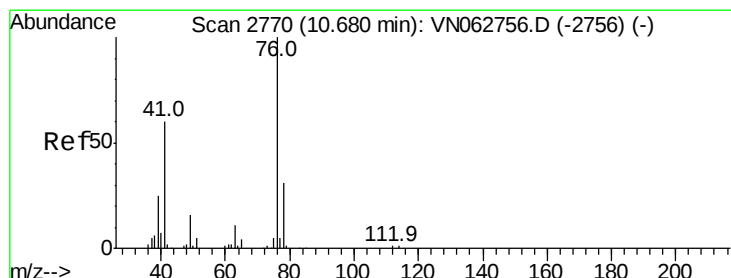
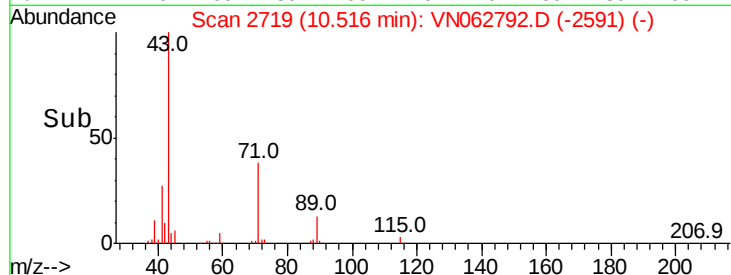
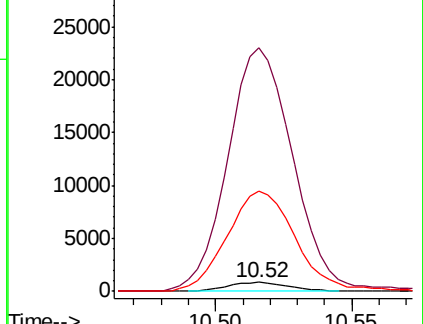
39 1252.2 30.9 46.3#



Abundance Ion 69.00 (68.70 to 69.70): VN062756.D (-2670) (-)

Ion 41.00 (40.70 to 41.70): VN062756.D (-2670) (-)

Ion 39.00 (38.70 to 39.70): VN062756.D (-2670) (-)



#57

1,3-Dichloropropane

Concen: 1.023 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062792.D

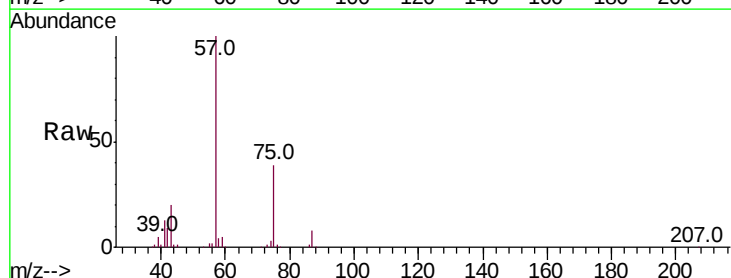
Acq: 7 Aug 2020 20:31

Tgt Ion: 76 Resp: 3174

Ion Ratio Lower Upper

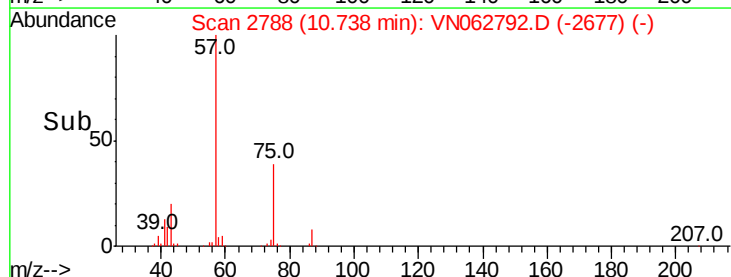
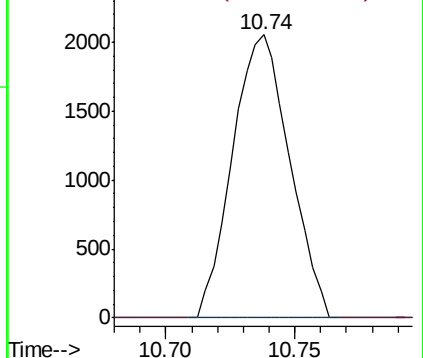
76 100

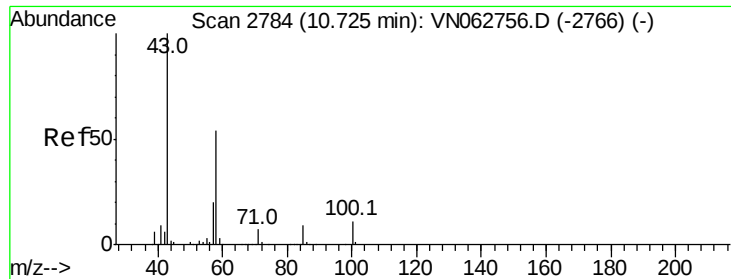
78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN062756.D (-2756) (-)

Ion 77.90 (77.60 to 78.60): VN062756.D (-2756) (-)

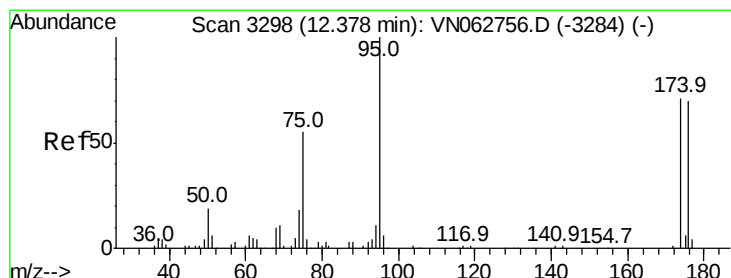
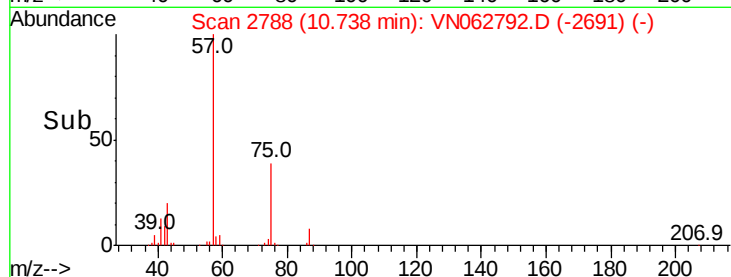
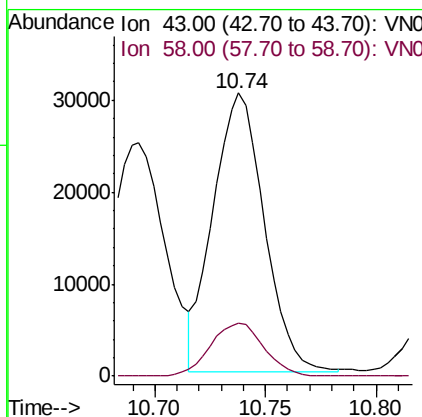
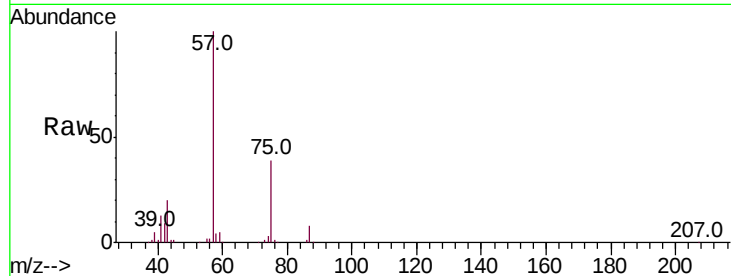




#59
2-Hexanone
Concen: 25.086 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

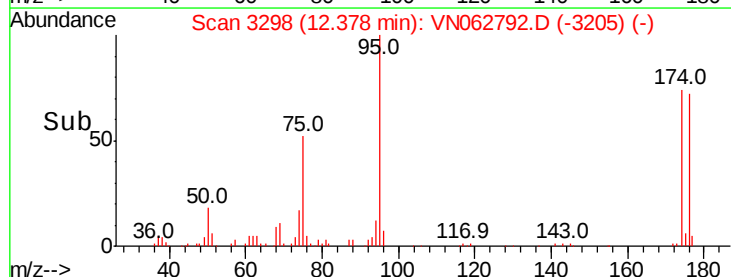
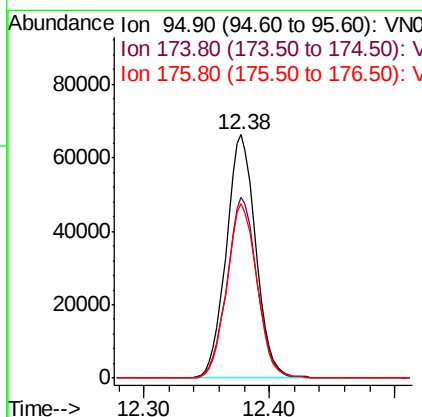
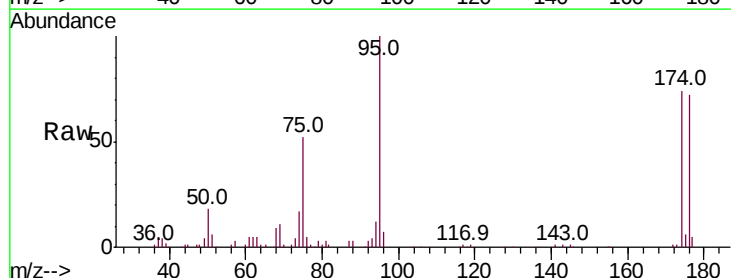
Instrument :
MSVOA_N
ClientSampleId :
TP-3

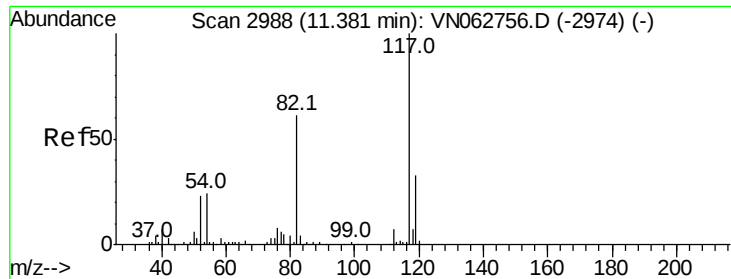
Tot Ion: 43 Resp: 48941
Ion Ratio Lower Upper
43 100
58 19.8 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 45.092 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

Tgt Ion: 95 Resp: 108430
Ion Ratio Lower Upper
95 100
174 75.2 0.0 144.8
176 72.8 0.0 142.2

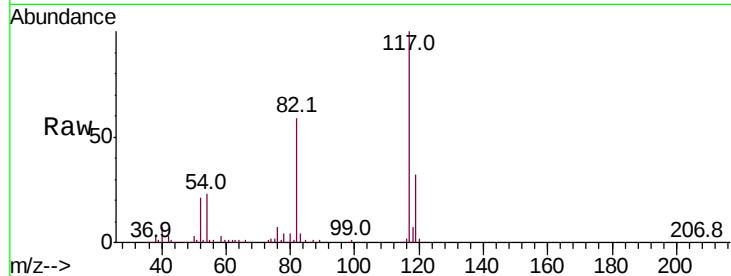




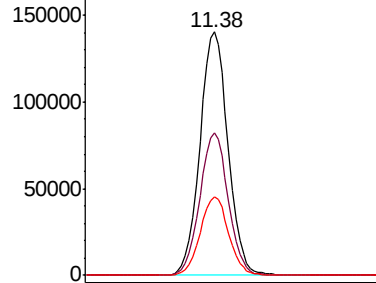
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

Instrument :
MSVOA_N
ClientSampleId :
TP-3

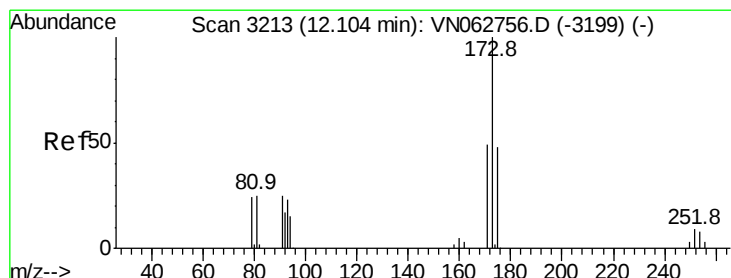
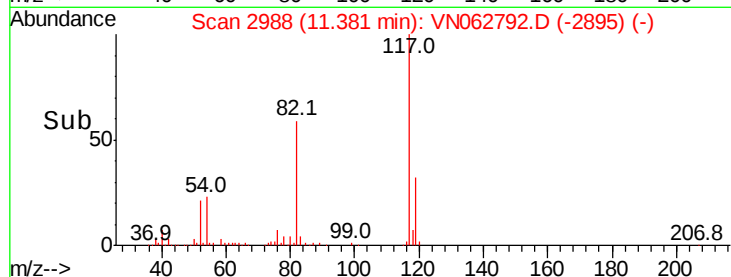
Tot Ion:117 Resp: 242601
Ion Ratio Lower Upper
117 100
82 58.5 49.0 73.4
119 32.1 26.2 39.2



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

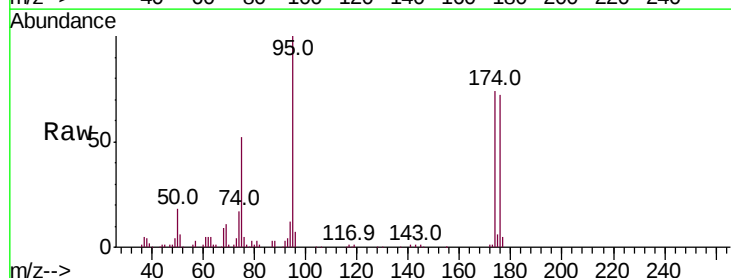


Time-->

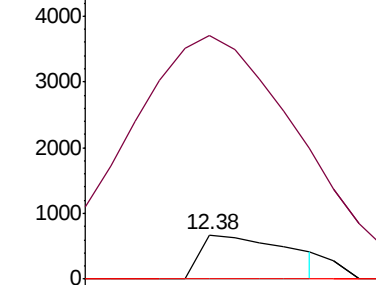


#71
Bromoform
Concen: 0.319 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.27 min
Lab File: VN062792.D
Acq: 7 Aug 2020 20:31

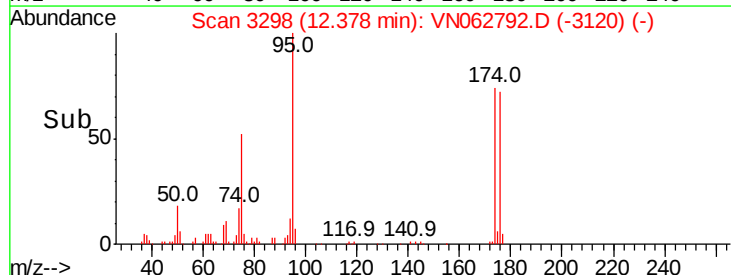
Tgt Ion:173 Resp: 532
Ion Ratio Lower Upper
173 100
175 1011.1 24.0 72.0#
254 0.0 0.0 0.0

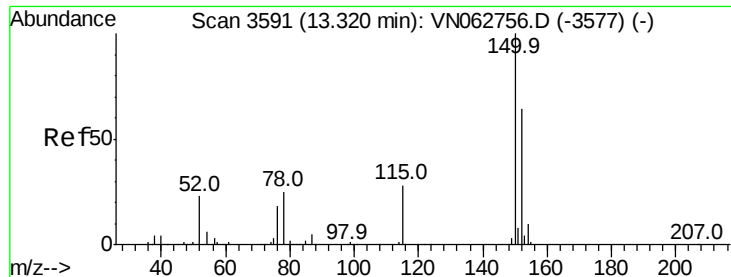


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062792.D

Acq: 7 Aug 2020 20:31

Instrument :

MSVOA_N

ClientSampleId :

TP-3

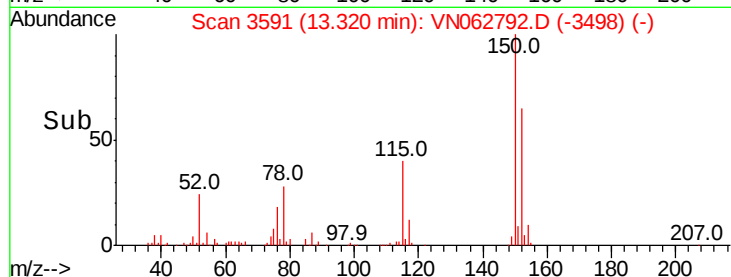
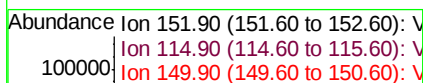
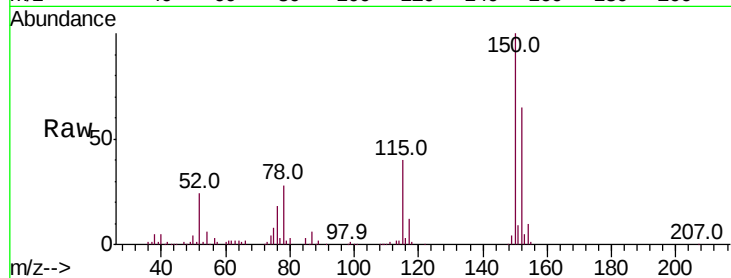
Tot Ion:152 Resp: 84720

Ion Ratio Lower Upper

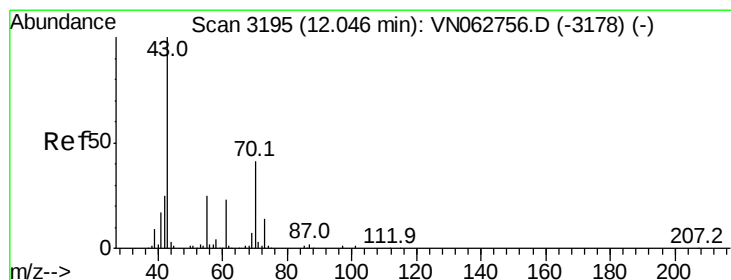
152 100

115 61.9 31.6 94.8

150 154.5 0.0 349.2



Time-->



#74

N-ethyl acetate

Concen: 0.783 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN062792.D

Acq: 7 Aug 2020 20:31

Tgt Ion: 43 Resp: 2025

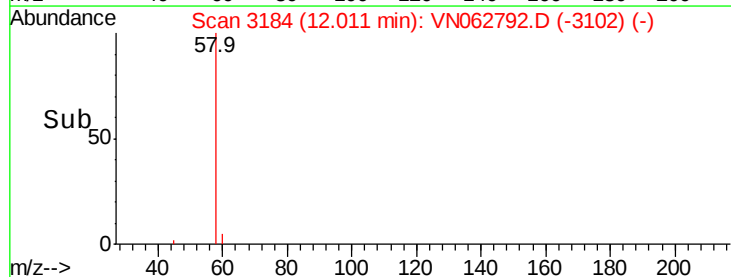
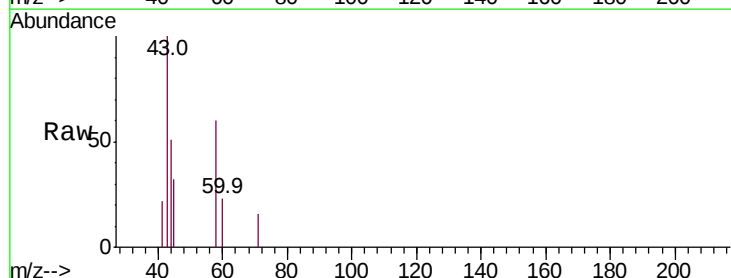
Ion Ratio Lower Upper

43 100

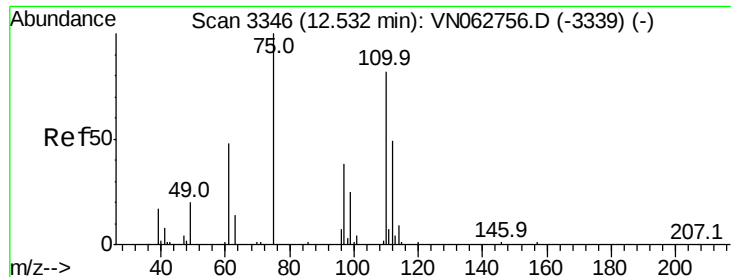
70 0.0 32.3 48.5#

55 0.0 20.2 30.2#

61 0.0 18.2 27.4#



Time-->



#76

1,2,3-Trichloropropane

Concen: 25.624 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062792.D

Acq: 7 Aug 2020 20:31

Instrument :

MSVOA_N

ClientSampled :

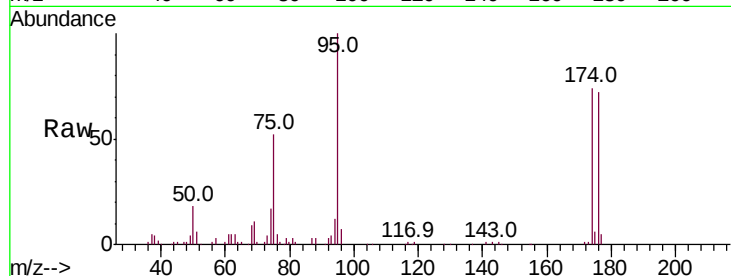
TP-3

Tot Ion: 75 Resp: 58545

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.38

40000

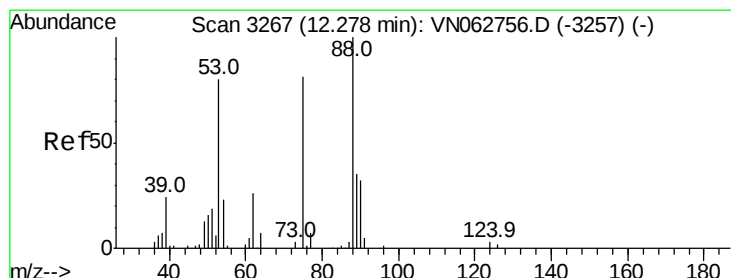
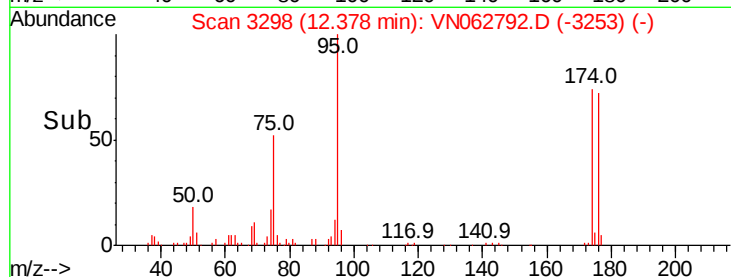
30000

20000

10000

0

Time--> 12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 78.222 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062792.D

Acq: 7 Aug 2020 20:31

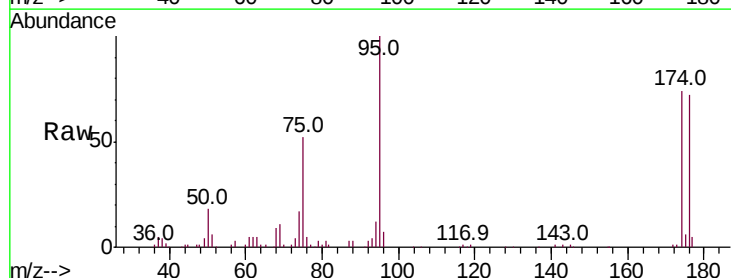
Tgt Ion: 75 Resp: 58545

Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.38

40000

30000

20000

10000

0

Time--> 12.30 12.35 12.40 12.45

