

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070220\
 Data File : VN062352.D
 Acq On : 2 Jul 2020 22:56
 Operator : JC/MD
 Sample : L2811-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 NB-7-063020

Quant Time: Jul 03 00:38:10 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	126555	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	266590	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	266791	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	95359	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	106478	59.95	ug/l	0.00
Spiked Amount			Recovery	=	119.90%	
35) Dibromofluoromethane	7.55	113	84202	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
50) Toluene-d8	10.06	98	352046	51.49	ug/l	0.00
Spiked Amount			Recovery	=	102.98%	
62) 4-Bromofluorobenzene	12.38	95	112918	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	

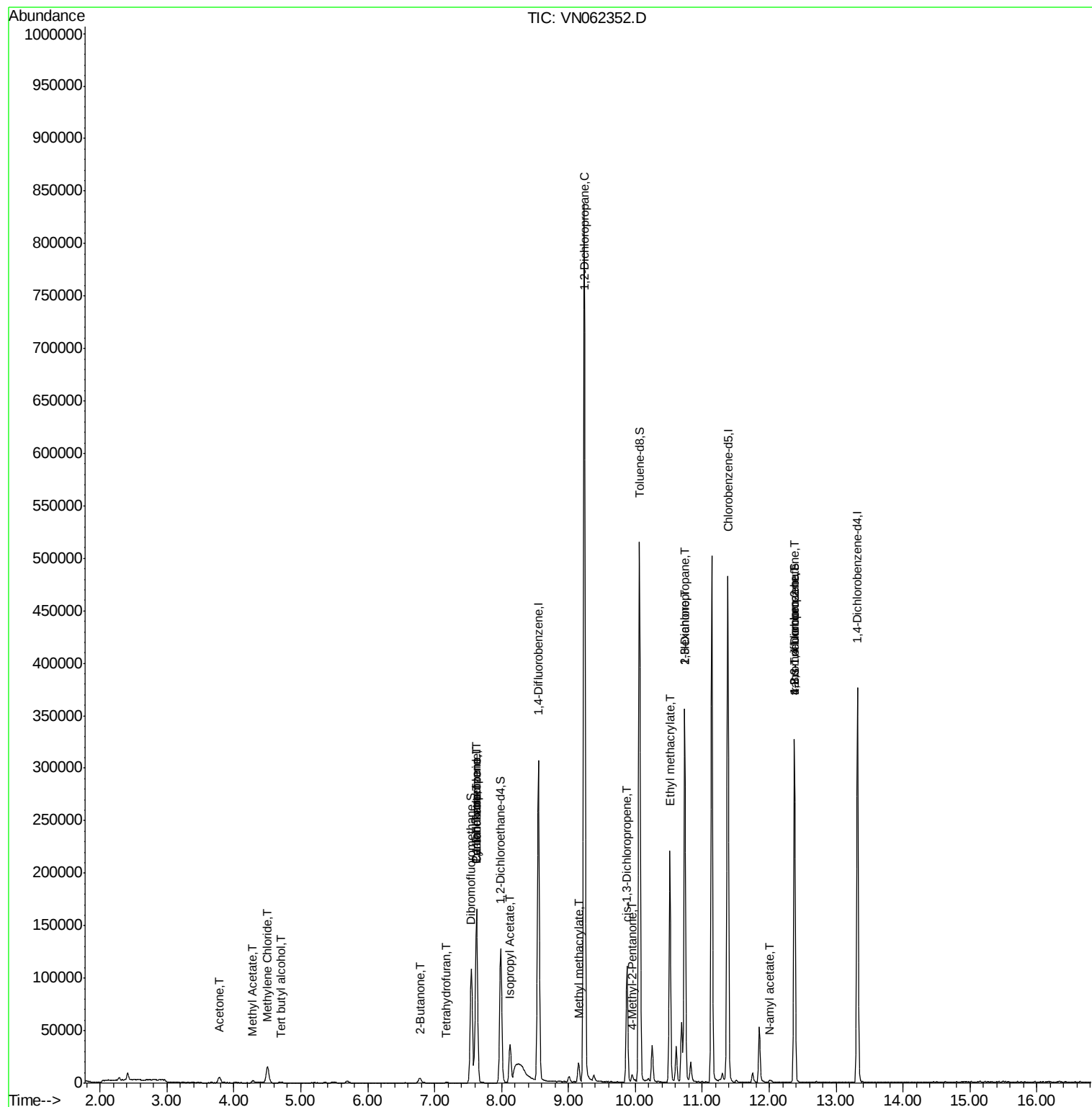
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	135	Below Cal	#	41
11) Tert butyl alcohol	4.71	59	290	1.137	ug/l #	72
16) Acetone	3.78	43	10382	14.813	ug/l	97
18) Methyl Acetate	4.28	43	1923	1.362	ug/l	91
20) Methylene Chloride	4.50	84	12249	7.328	ug/l	93
25) 2-Butanone	6.78	43	632	0.728	ug/l #	44
29) Tetrahydrofuran	7.17	42	227	0.399	ug/l #	28
31) Cyclohexane	7.62	56	3471	1.415	ug/l #	37
36) 1,1-Dichloropropene	7.63	75	11766	4.391	ug/l #	47
38) Carbon Tetrachloride	7.63	117	13364	5.290	ug/l #	16
43) Isopropyl Acetate	8.13	43	42420	11.728	ug/l	99
45) 1,2-Dichloropropane	9.23	63	935	0.464	ug/l #	43
48) Methyl methacrylate	9.15	41	2682	1.654	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	4506	2.132	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	19936	6.170	ug/l #	68
56) Ethyl methacrylate	10.52	69	1000	0.383	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3680	1.091	ug/l #	42
59) 2-Hexanone	10.74	43	47399	31.060	ug/l #	49
74) N-amyl acetate	12.01	43	1324	3.798	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	59910	26.688	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	59910	77.939	ug/l #	13

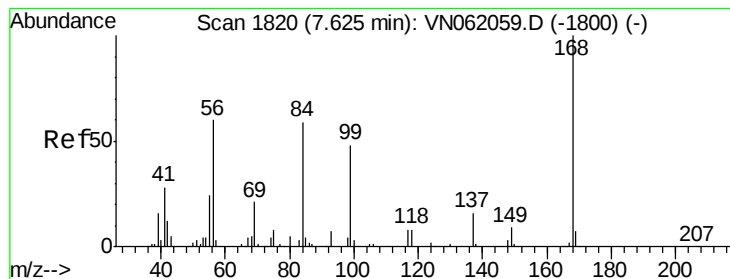
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN062352.D

Acq: 2 Jul 2020 22:56

Instrument :

MSVOA_N

ClientSampleId :

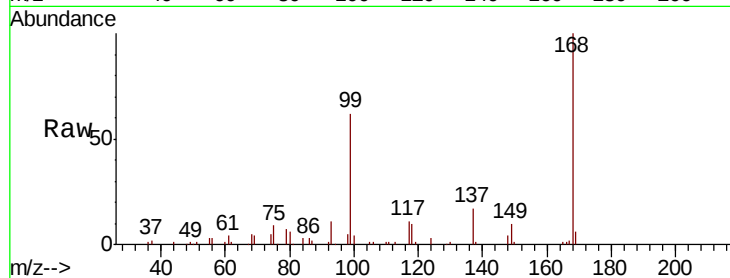
NB-7-063020

Tot Ion:168 Resp: 126555

Ion Ratio Lower Upper

168 100

99 61.9 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): VN062059.D

Ion 98.90 (98.60 to 99.60): VN062059.D

7.63

60000

50000

40000

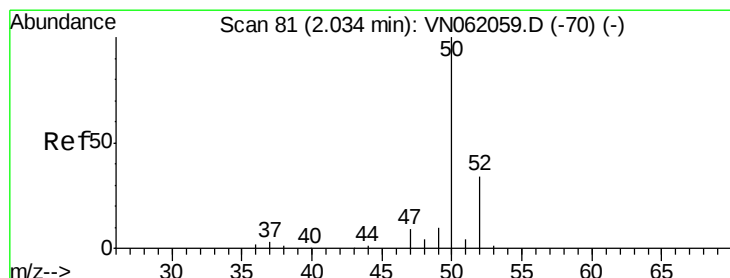
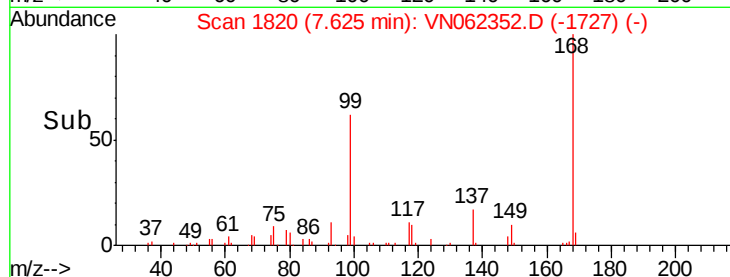
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062352.D

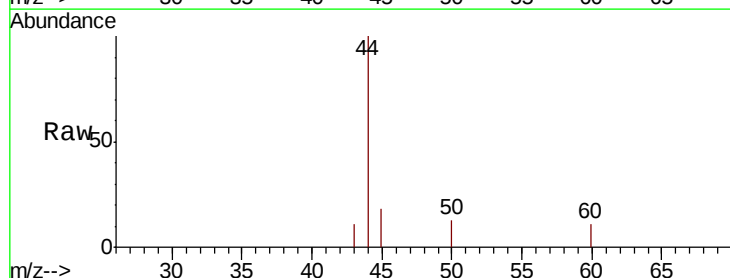
Acq: 2 Jul 2020 22:56

Tgt Ion: 50 Resp: 135

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN062059.D

Ion 51.90 (51.60 to 52.60): VN062059.D

2.03

200

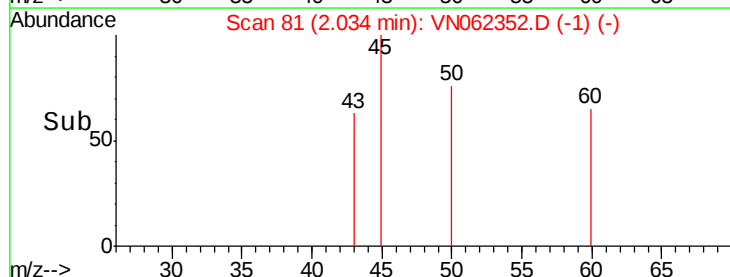
150

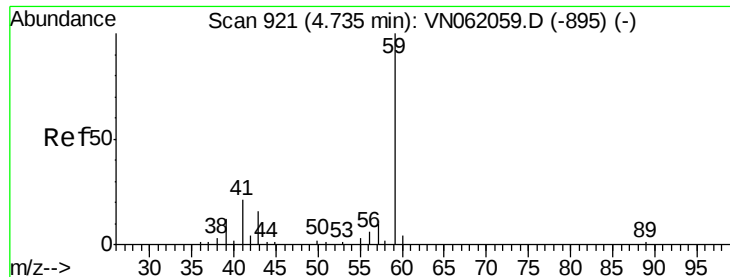
100

50

0

Time--> 2.01 2.02 2.03 2.04 2.05

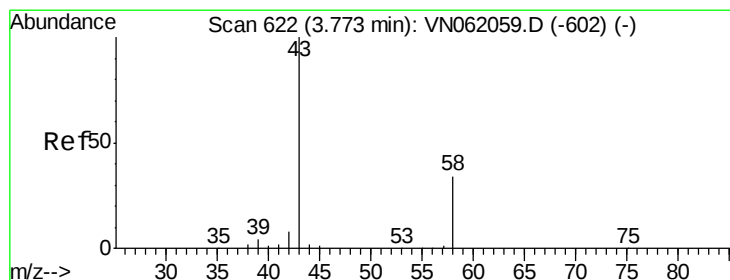
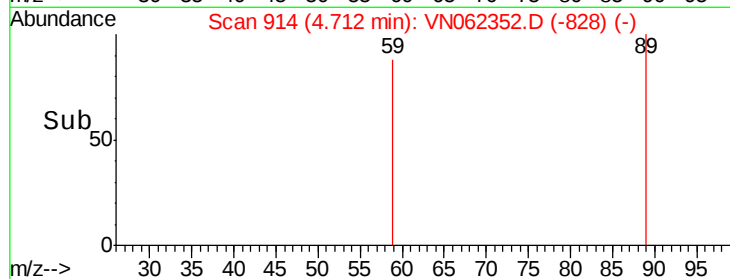
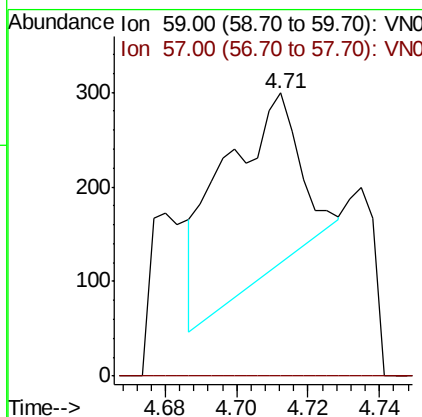
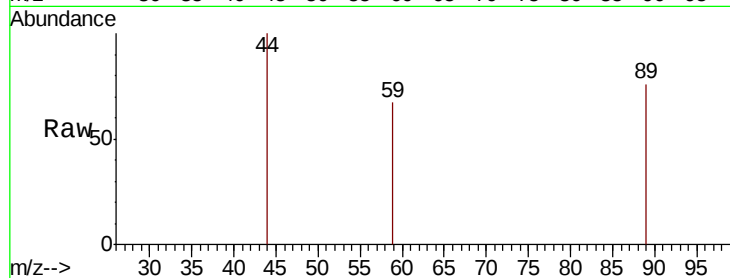




#11
Tert butyl alcohol
Concen: 1.137 ug/l
RT: 4.71 min Scan# 914
Delta R.T. -0.02 min
Lab File: VN062352.D
Acq: 2 Jul 2020 22:56

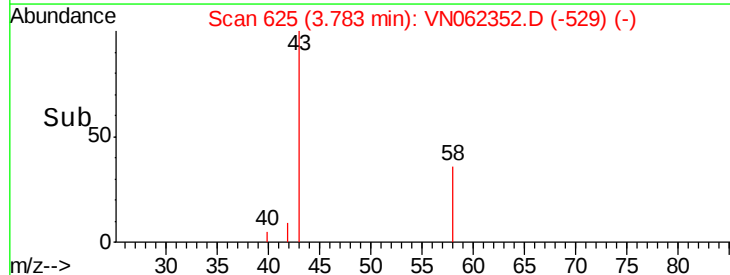
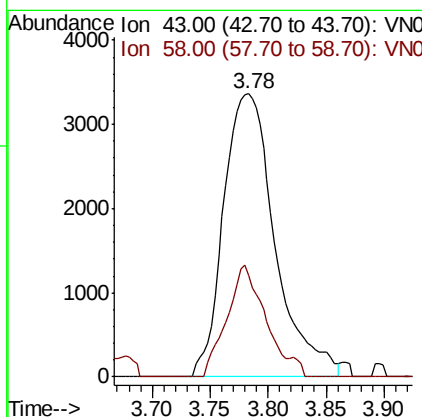
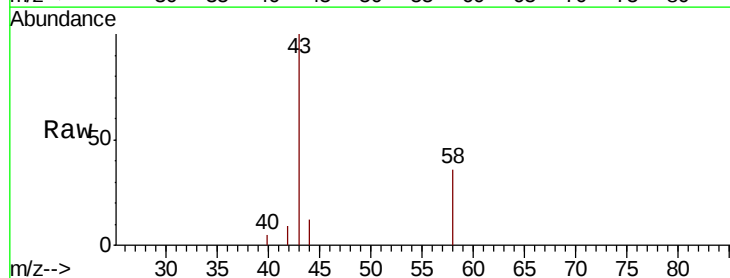
Instrument :
MSVOA_N
ClientSampled :
NB-7-063020

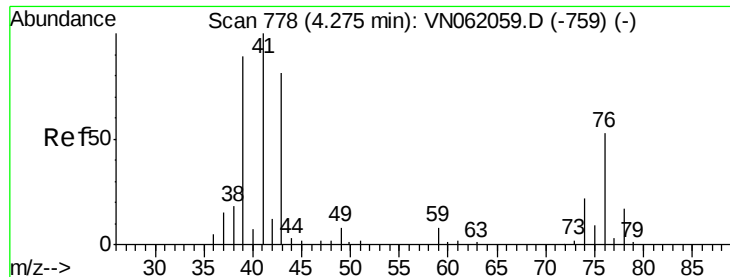
Tot Ion: 59 Resp: 290
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 14.813 ug/l
RT: 3.78 min Scan# 625
Delta R.T. 0.01 min
Lab File: VN062352.D
Acq: 2 Jul 2020 22:56

Tgt Ion: 43 Resp: 10382
Ion Ratio Lower Upper
43 100
58 35.9 27.5 41.3

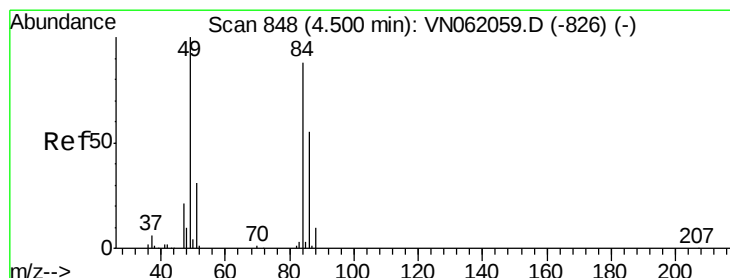
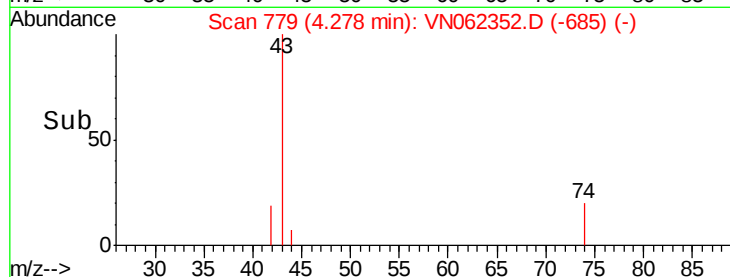
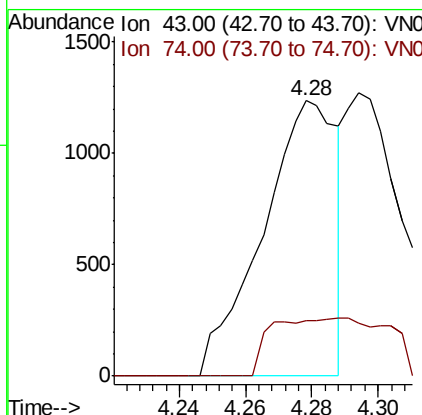
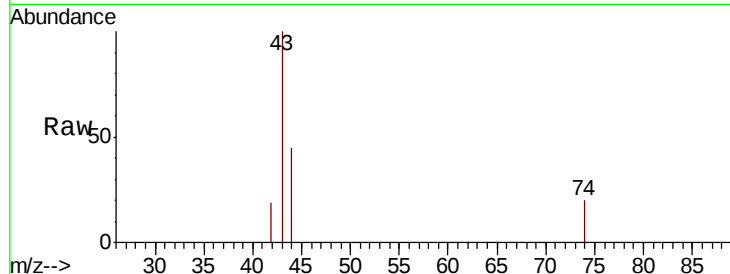




#18
Methyl Acetate
Concen: 1.362 ug/l
RT: 4.28 min Scan# 779
Delta R.T. 0.00 min
Lab File: VN062352.D
Acq: 2 Jul 2020 22:56

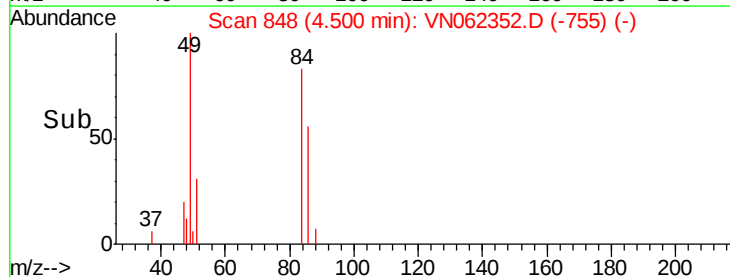
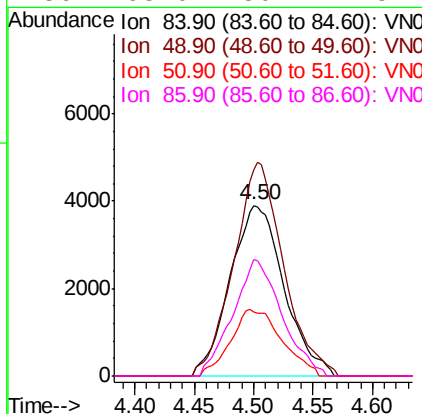
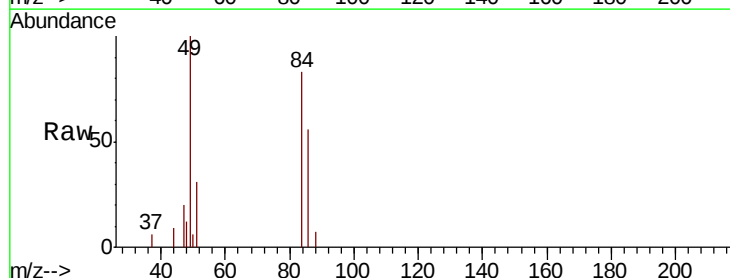
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MSVOA_N
ClientSampled :
NB-7-063020

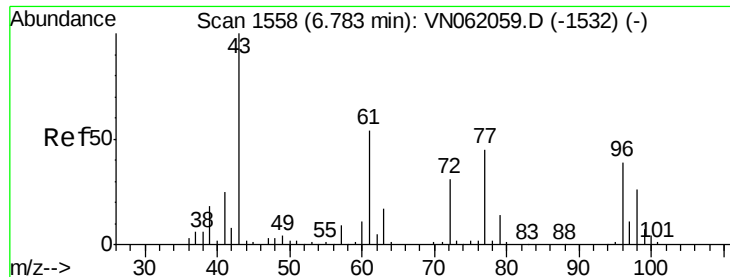
Tot Ion: 43 Resp: 1923
Ion Ratio Lower Upper
43 100
74 33.1 22.9 34.3



#20
Methylene Chloride
Concen: 7.328 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN062352.D
Acq: 2 Jul 2020 22:56

Tgt Ion: 84 Resp: 12249
Ion Ratio Lower Upper
84 100
49 121.0 90.6 136.0
51 37.5 27.8 41.8
86 68.0 50.1 75.1

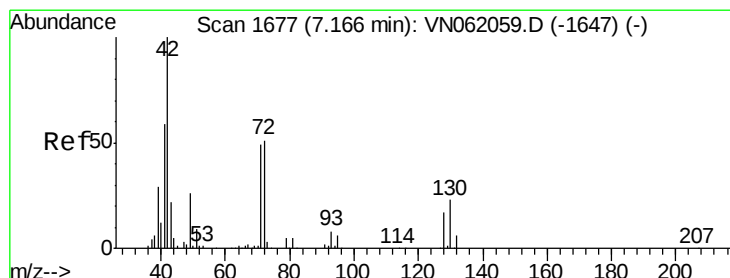
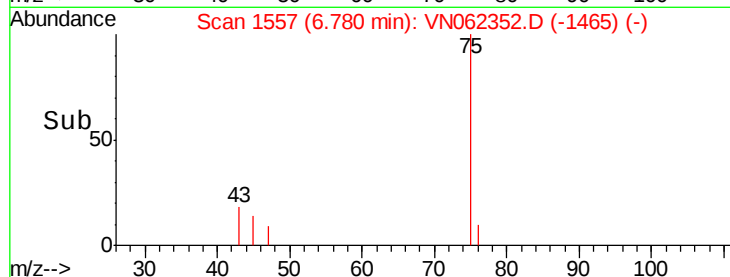
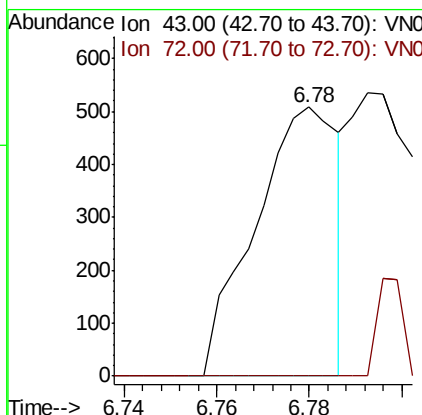
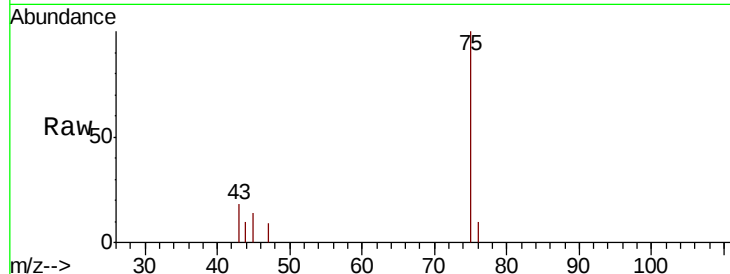




#25
2-Butanone
Concen: 0.728 ug/l
RT: 6.78 min Scan# 1557
Delta R.T. -0.00 min
Lab File: VN062352.D
Acq: 2 Jul 2020 22:56

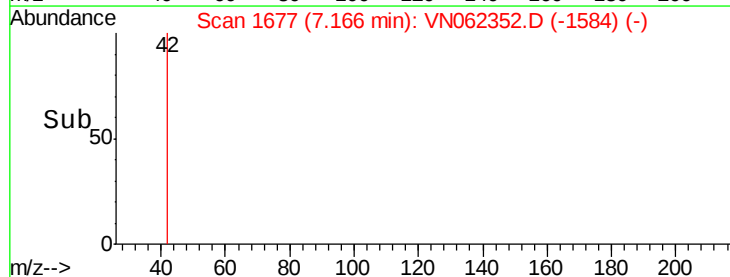
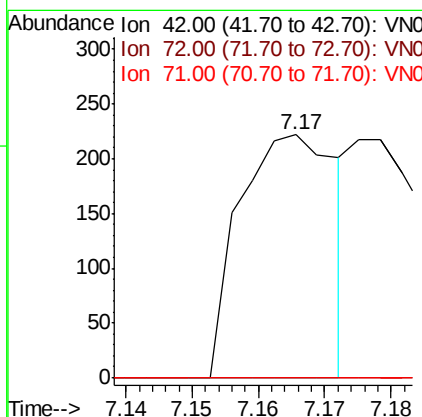
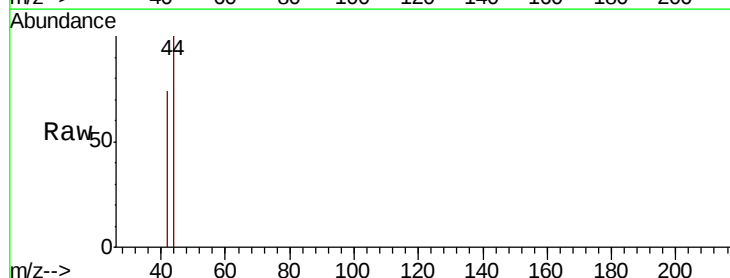
Instrument :
MSVOA_N
ClientSampleId :
NB-7-063020

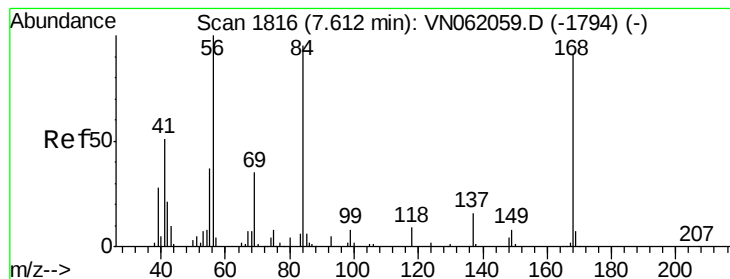
Tot Ion: 43 Resp: 632
Ion Ratio Lower Upper
43 100
72 0.0 24.8 37.2#



#29
Tetrahydrofuran
Concen: 0.399 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. 0.00 min
Lab File: VN062352.D
Acq: 2 Jul 2020 22:56

Tgt Ion: 42 Resp: 227
Ion Ratio Lower Upper
42 100
72 0.0 41.1 61.7#
71 0.0 38.2 57.4#





#31

Cyclohexane

Concen: 1.415 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062352.D

Acq: 2 Jul 2020 22:56

Instrument :

MSVOA_N

ClientSampleId :

NB-7-063020

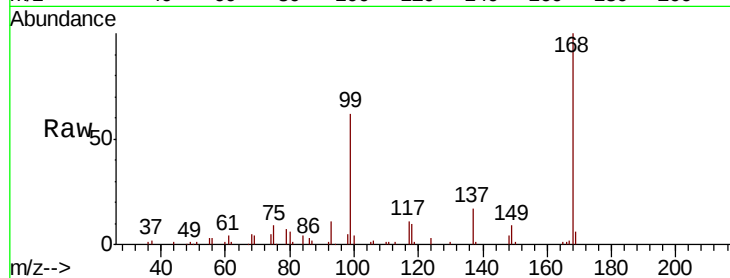
Tot Ion: 56 Resp: 3471

Ion Ratio Lower Upper

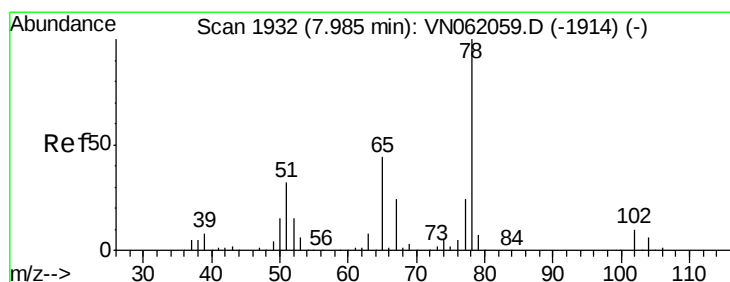
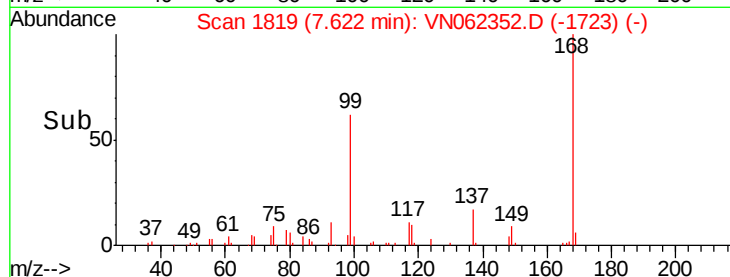
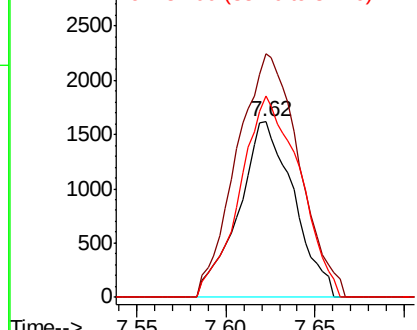
56 100

69 138.7 28.0 42.0#

84 114.9 76.1 114.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 59.954 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062352.D

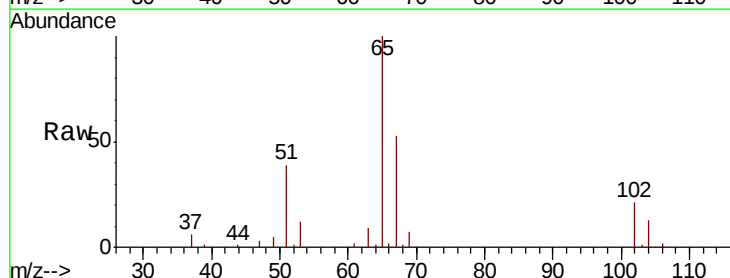
Acq: 2 Jul 2020 22:56

Tgt Ion: 65 Resp: 106478

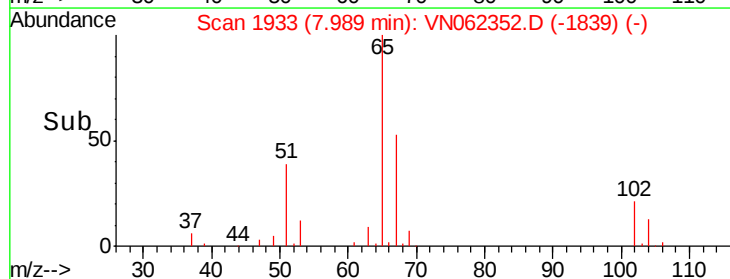
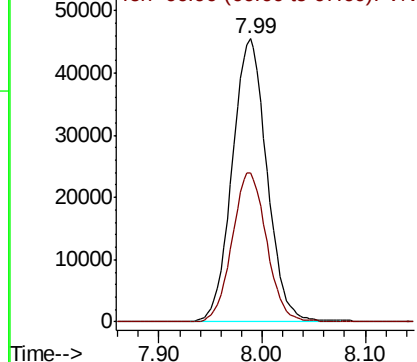
Ion Ratio Lower Upper

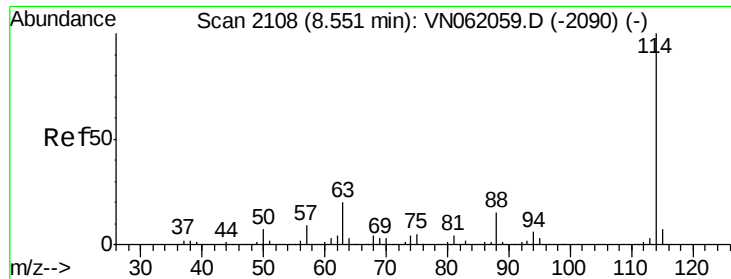
65 100

67 52.3 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

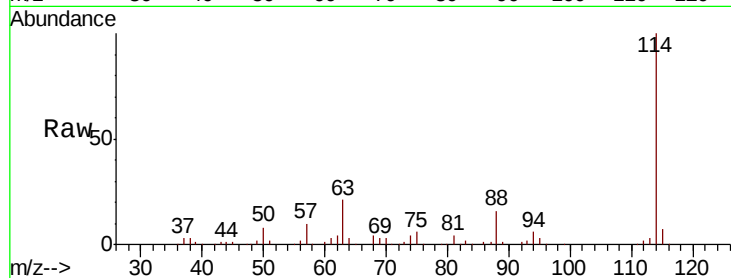




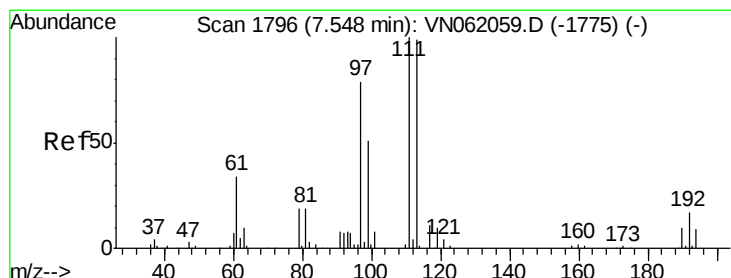
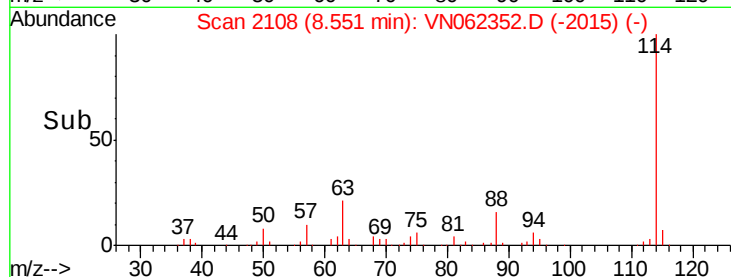
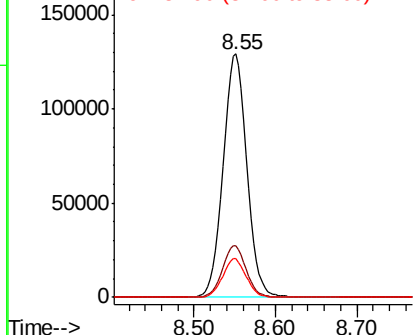
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062352.D
 Acq: 2 Jul 2020 22:56

Instrument :
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 NB-7-063020

Tot Ion:114 Resp: 266590
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 39.2
 88 15.8 0.0 30.8

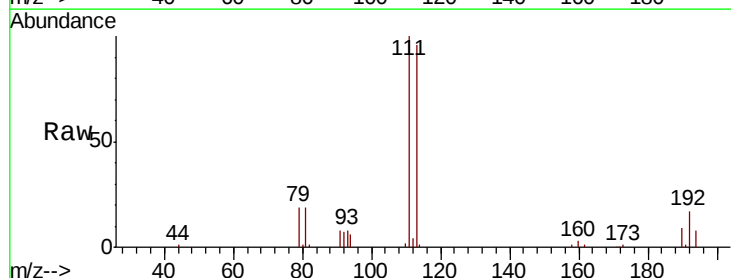


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

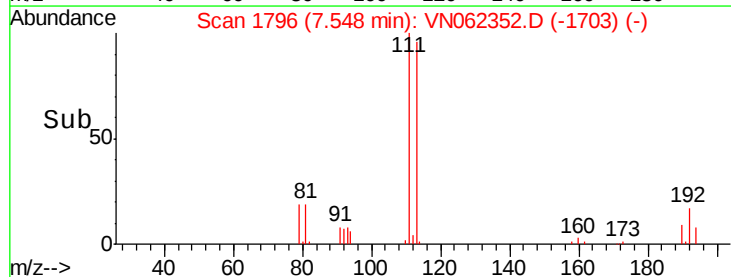
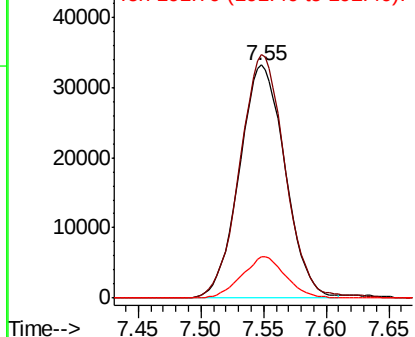


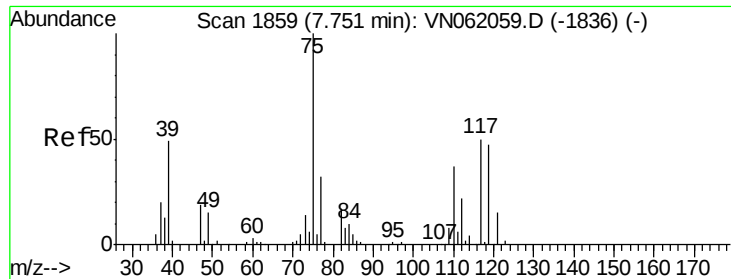
#35
 Dibromofluoromethane
 Concen: 49.232 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062352.D
 Acq: 2 Jul 2020 22:56

Tgt Ion:113 Resp: 84202
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.2 123.4
 192 17.0 14.0 21.0



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

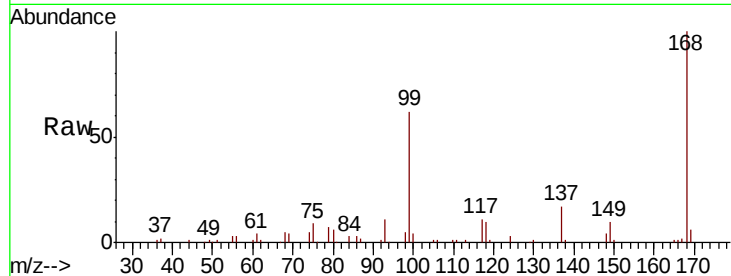




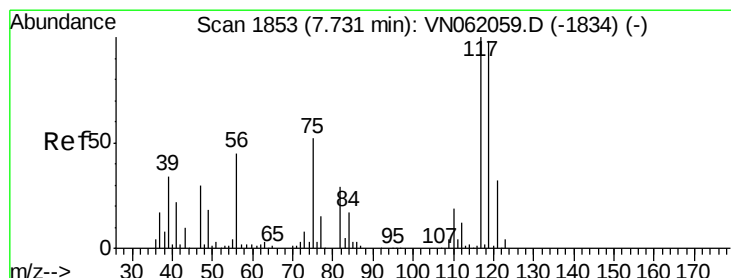
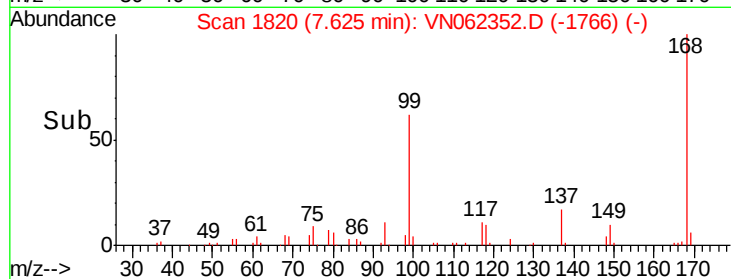
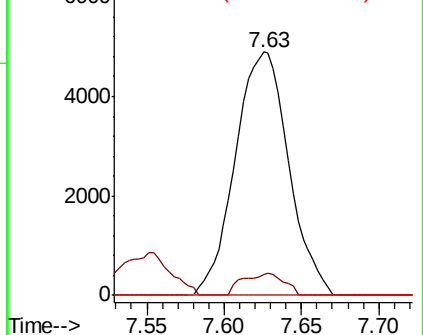
#36
 1,1-Dichloropropene
 Concen: 4.391 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062352.D
 Acq: 2 Jul 2020 22:56

Instrument :
 MSVOA_N
 ClientSampleId :
 NB-7-063020

Tot Ion: 75 Resp: 11766
 Ion Ratio Lower Upper
 75 100
 110 7.0 17.9 53.8#
 77 0.0 24.9 37.3#

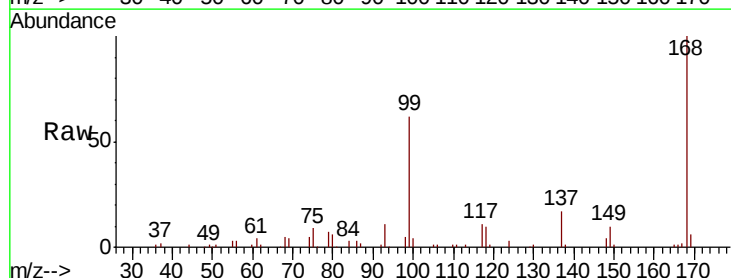


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

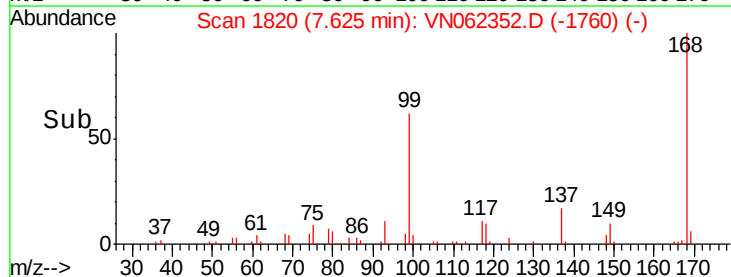
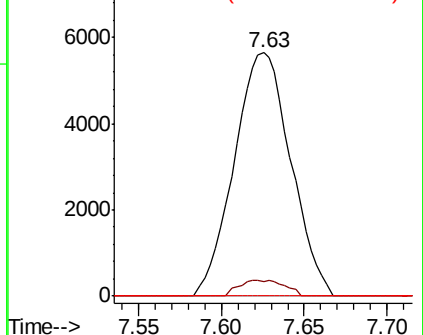


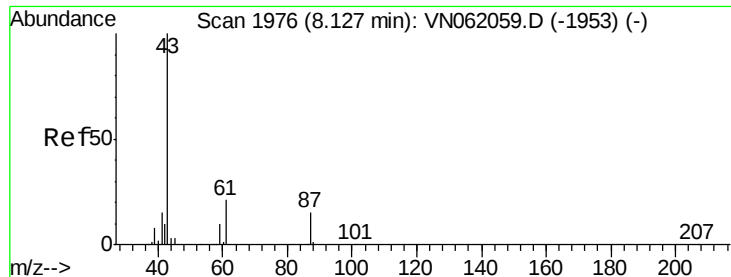
#38
 Carbon Tetrachloride
 Concen: 5.290 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN062352.D
 Acq: 2 Jul 2020 22:56

Tgt Ion: 117 Resp: 13364
 Ion Ratio Lower Upper
 117 100
 119 6.1 78.2 117.2#
 121 0.0 25.8 38.6#



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





#43

Isopropyl Acetate

Concen: 11.728 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062352.D

Acq: 2 Jul 2020 22:56

Instrument :

MSVOA_N

ClientSampleId :

NB-7-063020

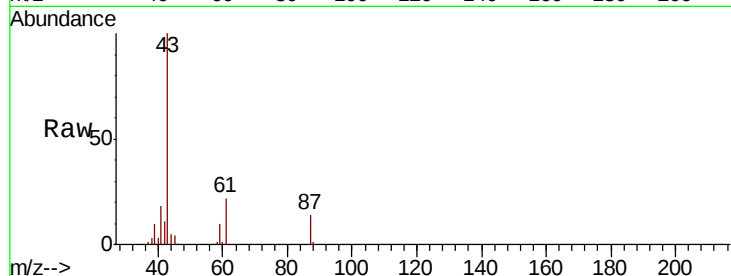
Tot Ion: 43 Resp: 42420

Ion Ratio Lower Upper

43 100

61 21.6 17.2 25.8

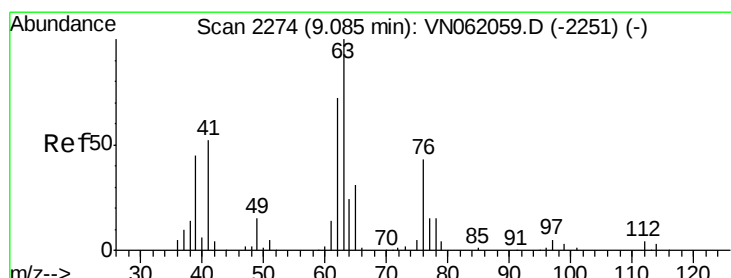
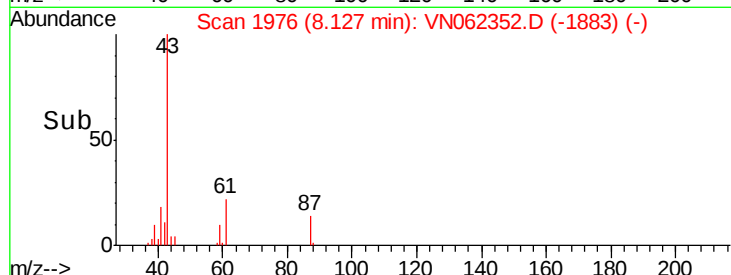
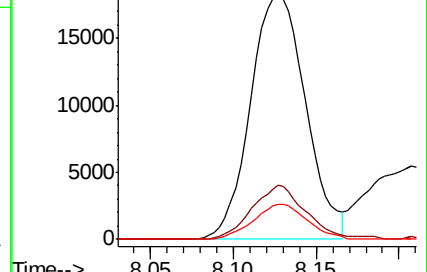
87 13.8 12.1 18.1



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: 0.464 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062352.D

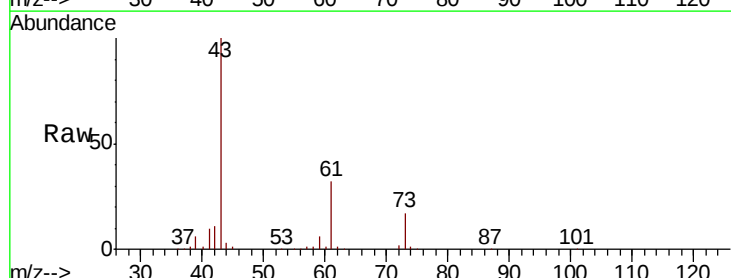
Acq: 2 Jul 2020 22:56

Tgt Ion: 63 Resp: 935

Ion Ratio Lower Upper

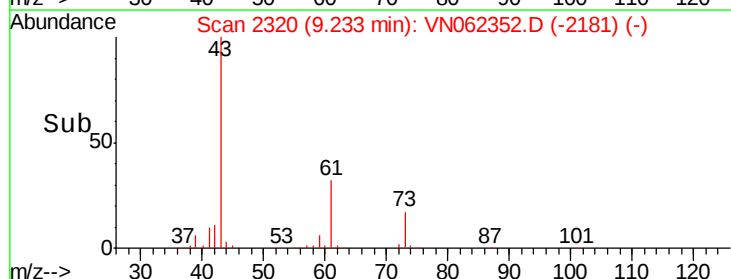
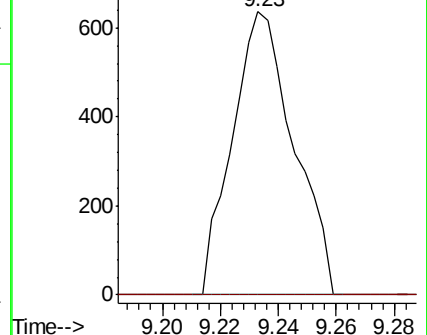
63 100

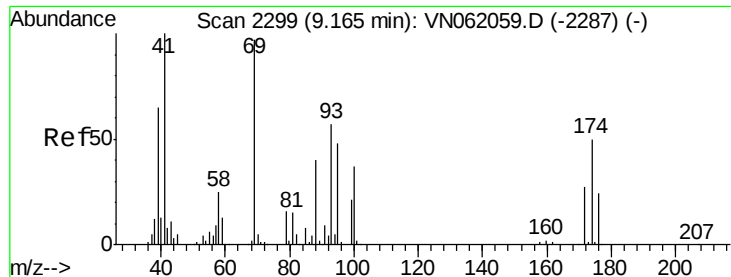
65 0.0 25.0 37.4#



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

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

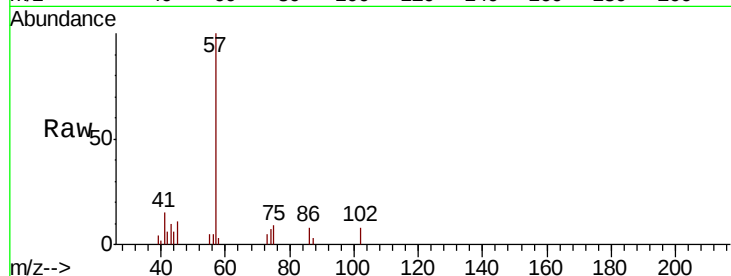




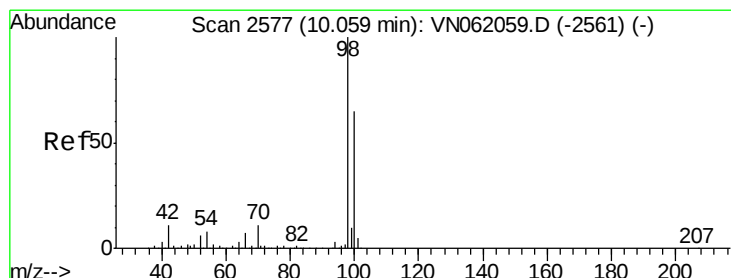
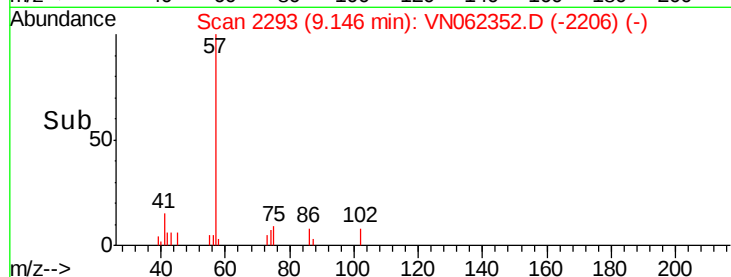
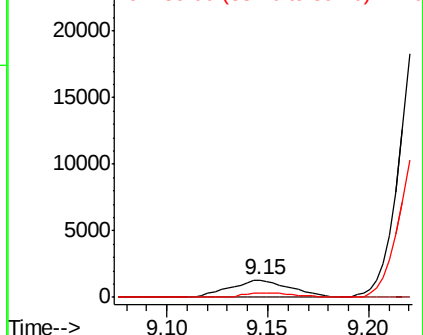
#48
Methvl methacrylate
Concen: 1.654 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN062352.D
Acq: 2 Jul 2020 22:56

Instrument :
MSVOA_N
ClientSampleId :
NB-7-063020

Tot Ion: 41 Resp: 2682
Ion Ratio Lower Upper
41 100
69 0.0 80.7 121.1#
39 0.0 54.5 81.7#

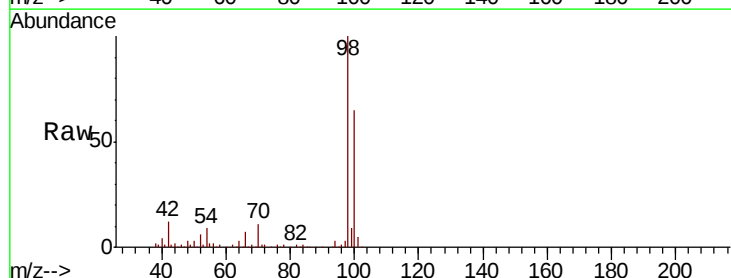


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

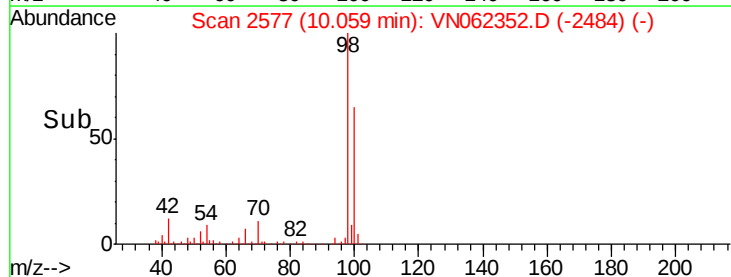
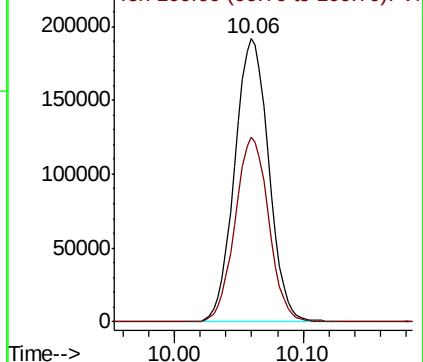


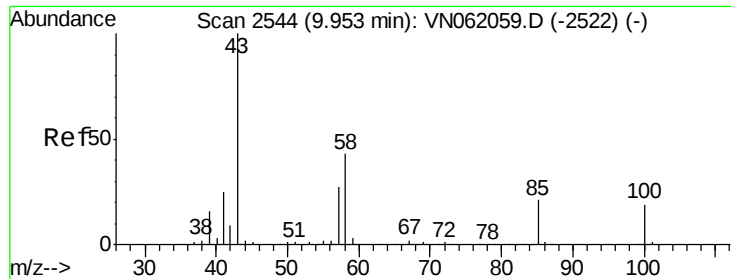
#50
Toluene-d8
Concen: 51.494 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062352.D
Acq: 2 Jul 2020 22:56

Tgt Ion: 98 Resp: 352046
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

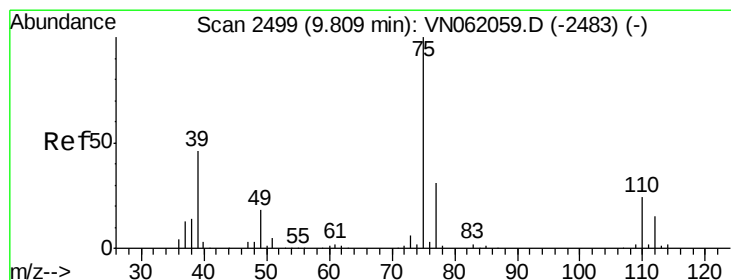
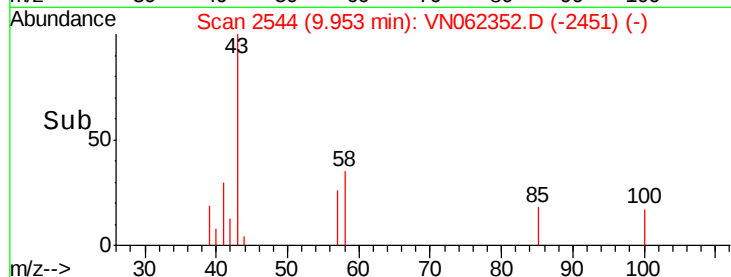
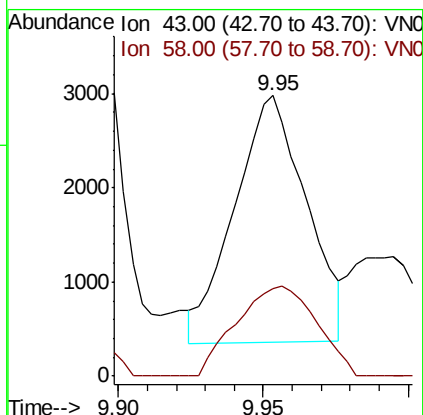
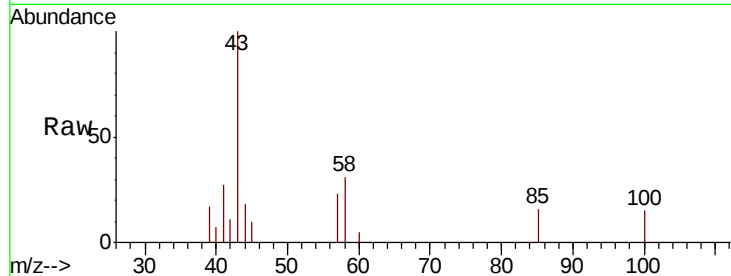




#51
4-Methyl-2-Pentanone
Concen: 2.132 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. 0.00 min
Lab File: VN062352.D
Acq: 2 Jul 2020 22:56

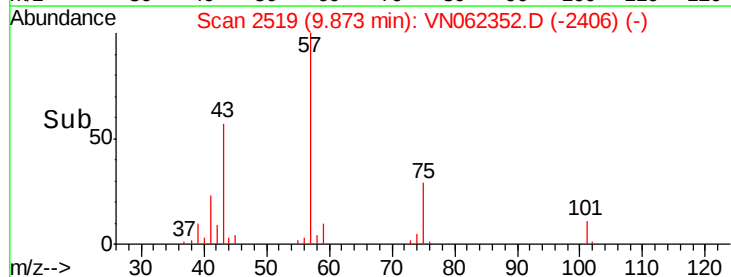
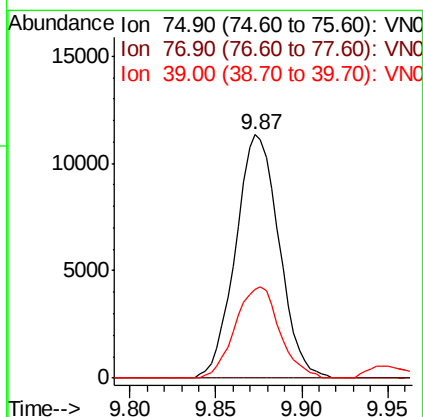
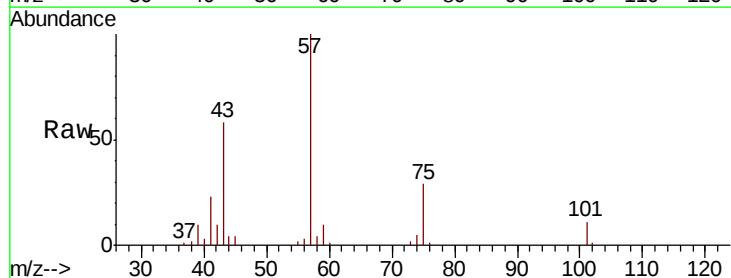
Instrument :
MSVOA_N
ClientSampleId :
NB-7-063020

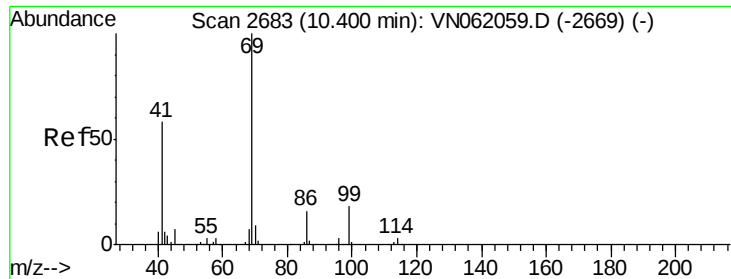
Tot Ion: 43 Resp: 4506
Ion Ratio Lower Upper
43 100
58 40.7 34.2 51.2



#54
cis-1,3-Dichloropropene
Concen: 6.170 ug/l
RT: 9.87 min Scan# 2519
Delta R.T. 0.06 min
Lab File: VN062352.D
Acq: 2 Jul 2020 22:56

Tgt Ion: 75 Resp: 19936
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#
39 36.2 36.9 55.3#





#56

Ethyl methacrylate

Concen: 0.383 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062352.D

Acq: 2 Jul 2020 22:56

Instrument :

MSVOA_N

ClientSampleId :

NB-7-063020

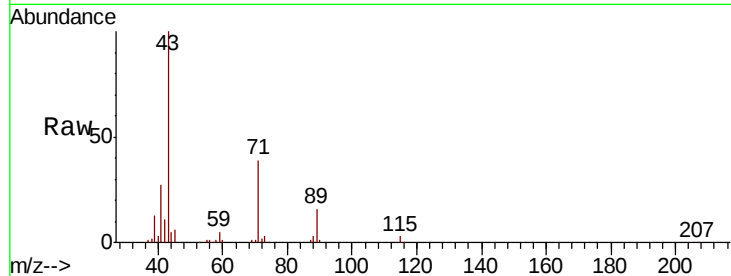
Tot Ion: 69 Resp: 1000

Ion Ratio Lower Upper

69 100

41 4260.4 46.6 70.0#

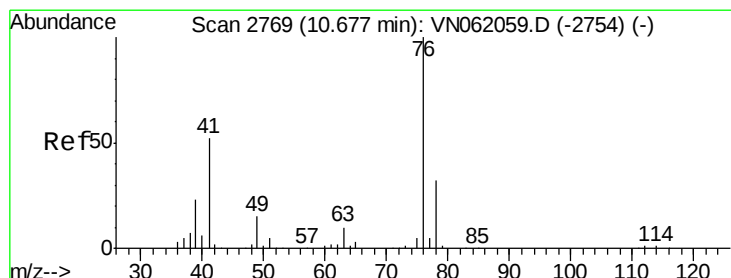
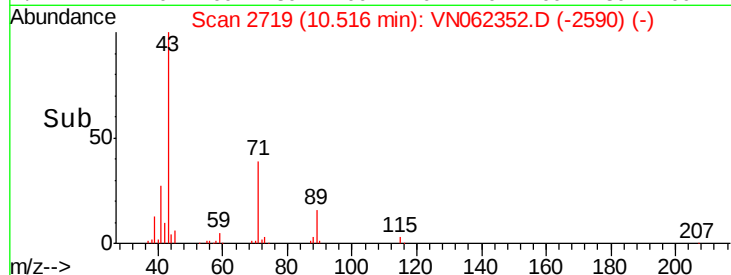
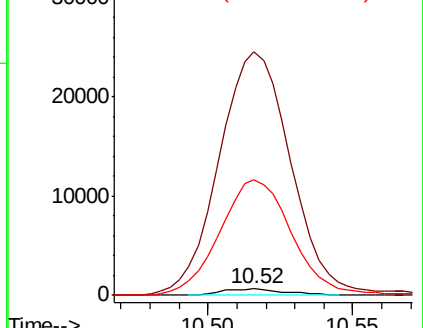
39 2015.1 31.0 46.4#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.091 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062352.D

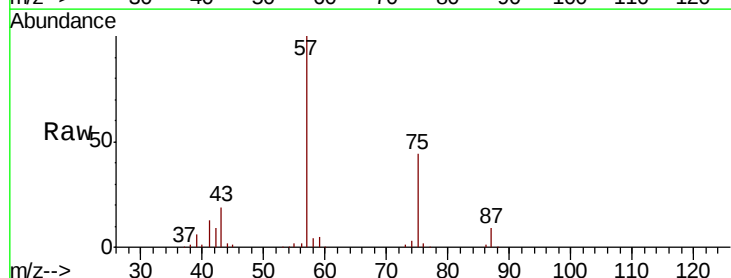
Acq: 2 Jul 2020 22:56

Tgt Ion: 76 Resp: 3680

Ion Ratio Lower Upper

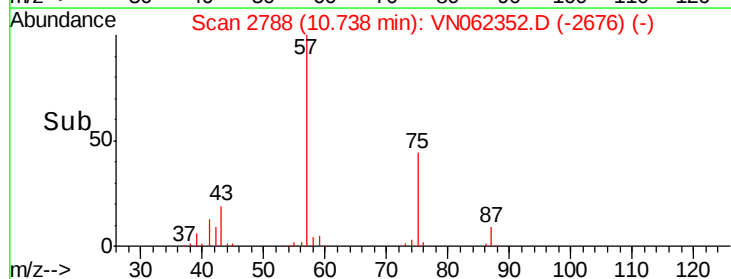
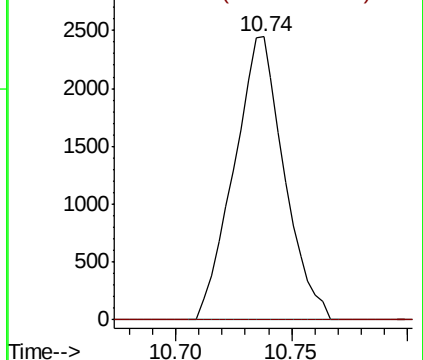
76 100

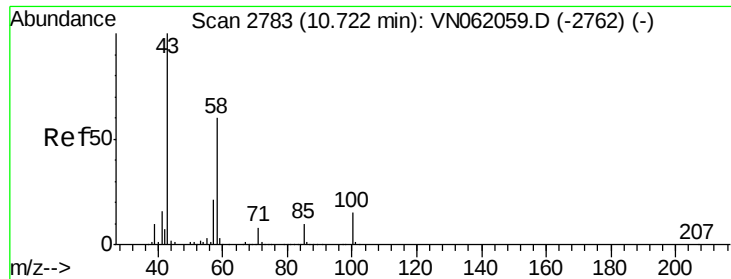
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

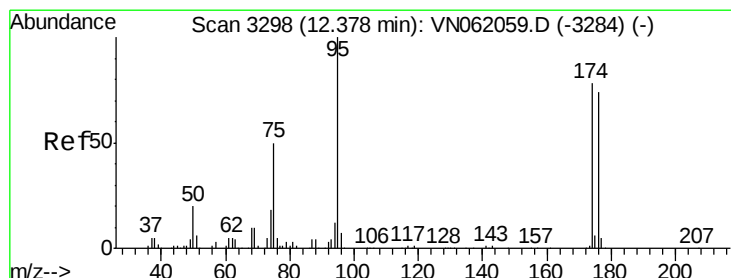
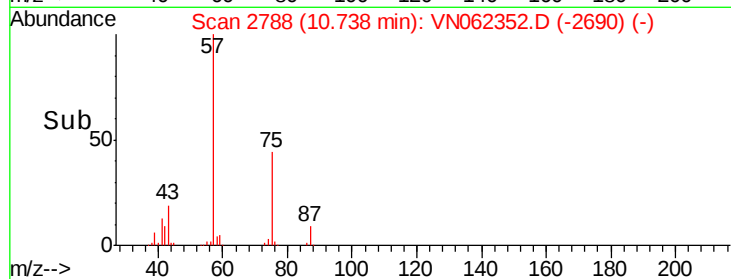
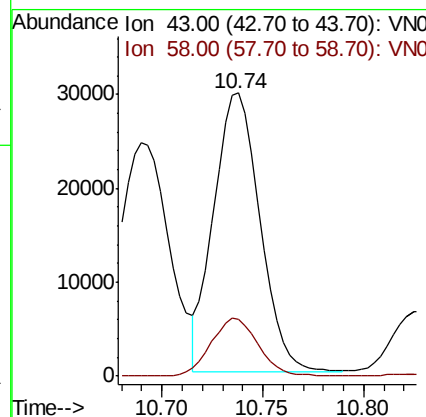
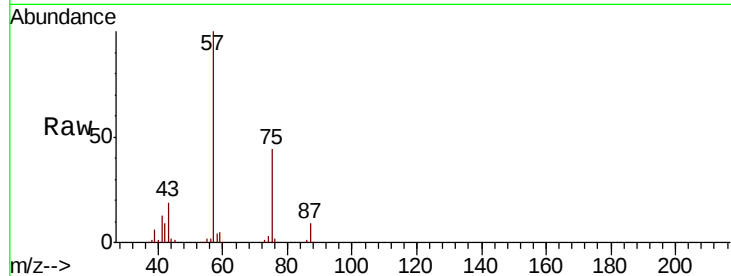




#59
2-Hexanone
Concen: 31.060 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062352.D
Acq: 2 Jul 2020 22:56

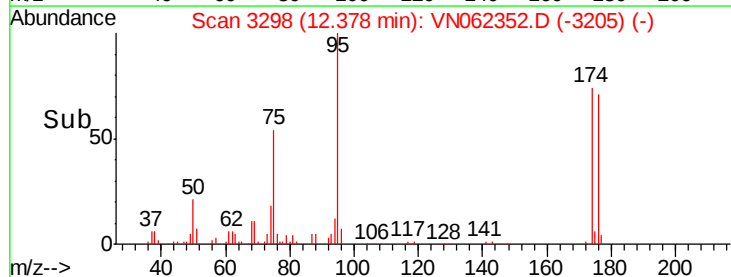
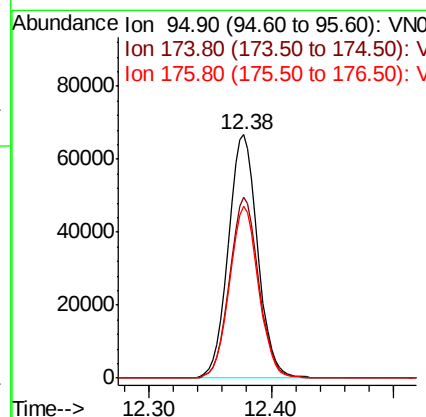
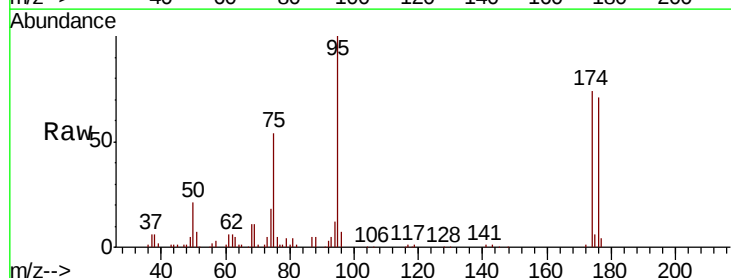
Instrument :
MSVOA_N
ClientSampled :
NB-7-063020

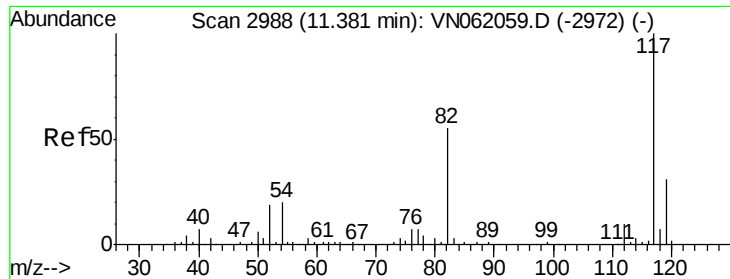
Tot Ion: 43 Resp: 47399
Ion Ratio Lower Upper
43 100
58 21.1 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 48.886 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062352.D
Acq: 2 Jul 2020 22:56

Tgt Ion: 95 Resp: 112918
Ion Ratio Lower Upper
95 100
174 73.6 0.0 154.8
176 69.8 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: VN062352.D

Acq: 2 Jul 2020 22:56

Instrument :

MSVOA_N

ClientSampleId :

NB-7-063020

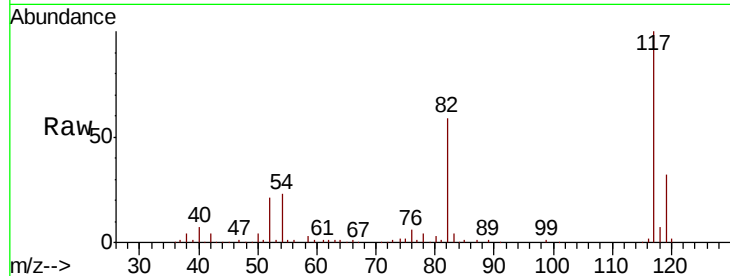
Tot Ion:117 Resp: 266791

Ion Ratio Lower Upper

117 100

82 59.1 43.8 65.8

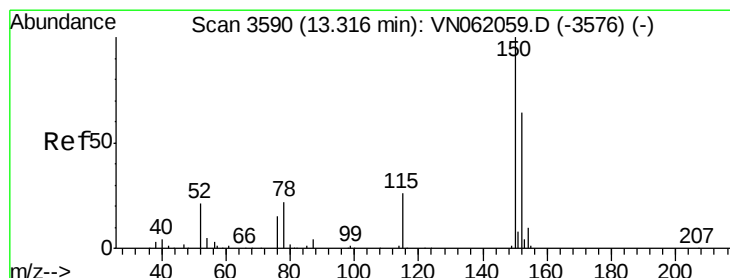
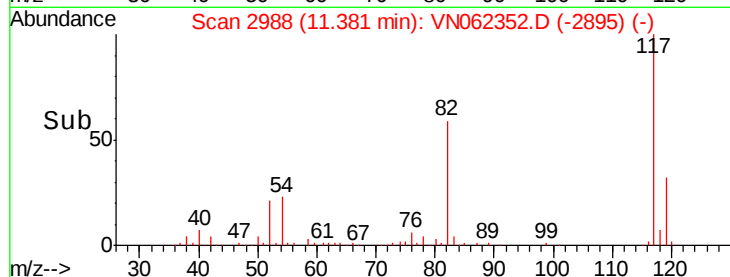
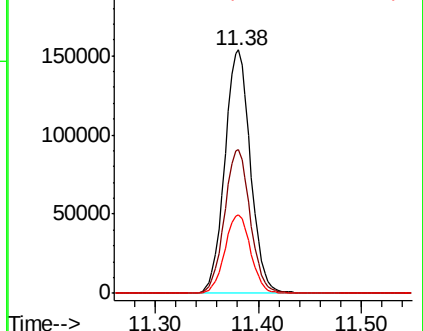
119 32.3 25.2 37.8



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062352.D

Acq: 2 Jul 2020 22:56

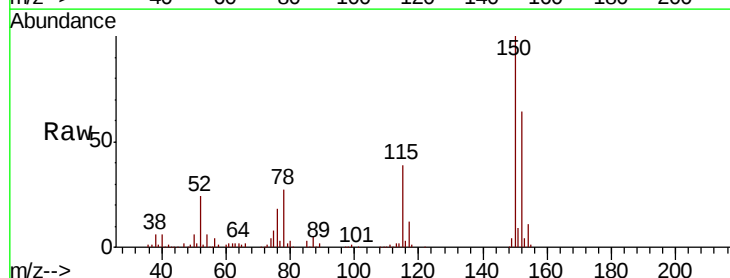
Tgt Ion:152 Resp: 95359

Ion Ratio Lower Upper

152 100

115 62.6 29.5 88.5

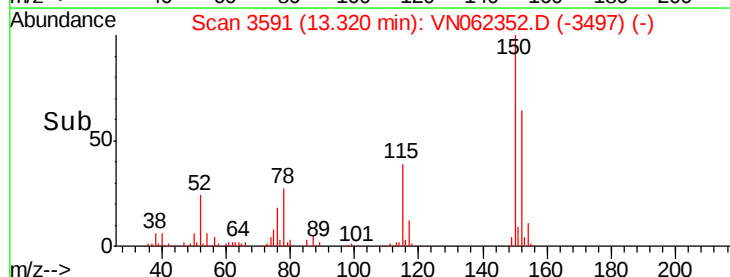
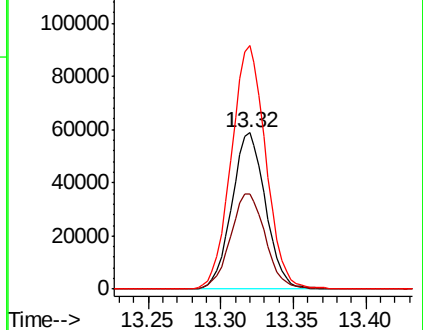
150 159.0 0.0 351.4

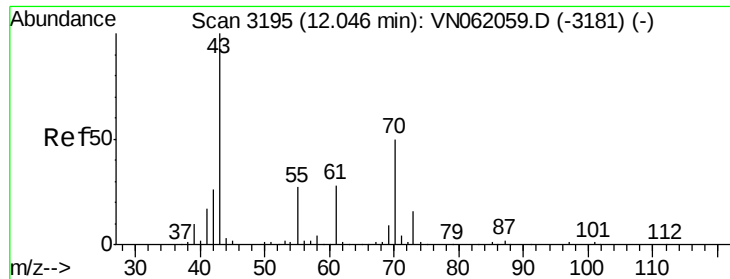


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.798 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062352.D

Acq: 2 Jul 2020 22:56

Instrument :

MSVOA_N

ClientSampleId :

NB-7-063020

Tot Ion: 43 Resp: 1324

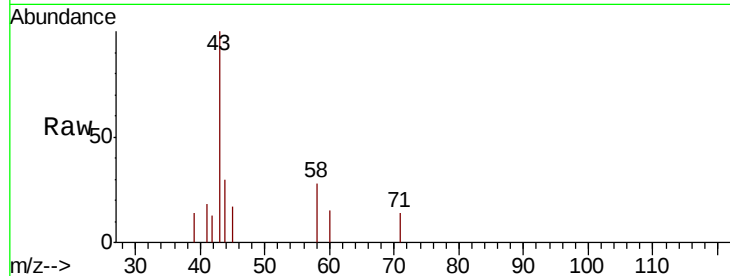
Ion Ratio Lower Upper

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): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

1500

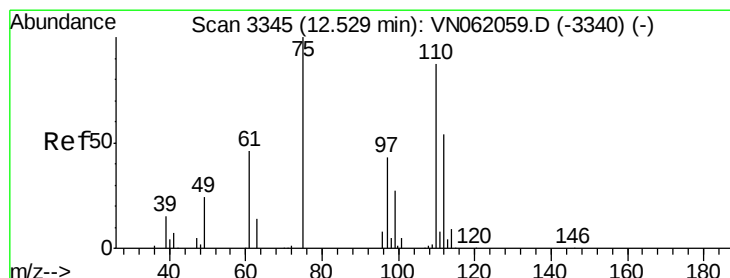
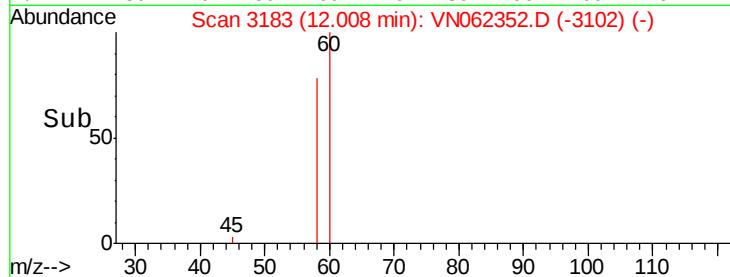
1000

500

0

12.01

Time-->



#76

1,2,3-Trichloropropane

Concen: 26.688 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062352.D

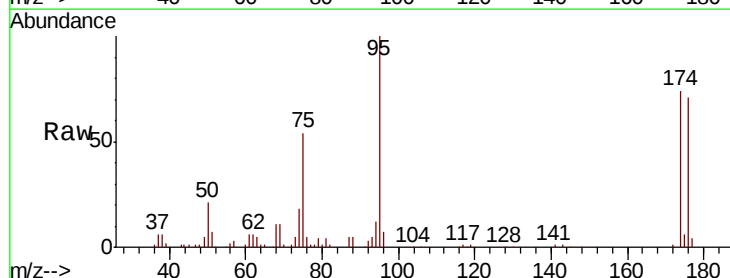
Acq: 2 Jul 2020 22:56

Tgt Ion: 75 Resp: 59910

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

40000

30000

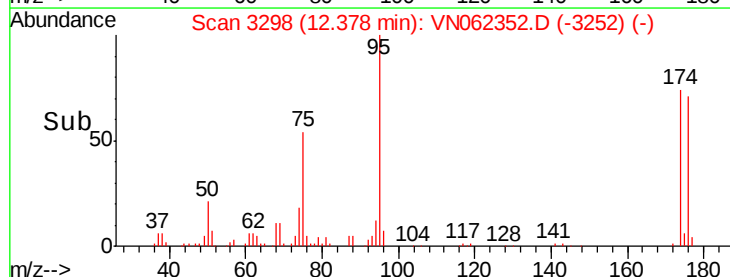
20000

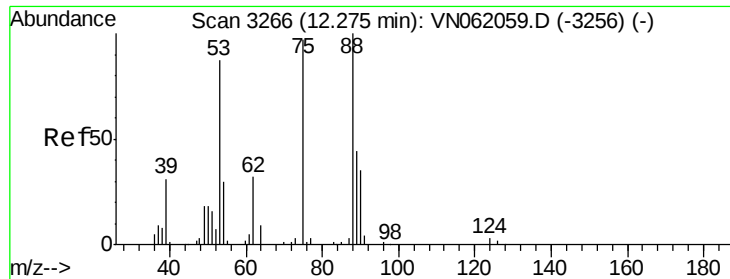
10000

0

12.38

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 77.939 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062352.D

Acq: 2 Jul 2020 22:56

Instrument :

MSVOA_N

ClientSampleId :

NB-7-063020

Tot Ion: 75 Resp: 59910

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#

