

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070120\
 Data File : VN062324.D
 Acq On : 2 Jul 2020 5:57
 Operator : JC/MD
 Sample : PB129873ZHE#10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129873ZHE#10

Quant Time: Jul 02 07:00:38 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	197673	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	421153	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	419853	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	143198	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	166501	60.02	ug/l	0.00
Spiked Amount			Recovery	=	120.04%	
35) Dibromofluoromethane	7.55	113	131828	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
50) Toluene-d8	10.06	98	560438	51.89	ug/l	0.00
Spiked Amount			Recovery	=	103.78%	
62) 4-Bromofluorobenzene	12.38	95	175694	48.15	ug/l	0.00
Spiked Amount			Recovery	=	96.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	261	Below Cal	#	41
11) Tert butyl alcohol	4.69	59	931	2.338	ug/l #	72
16) Acetone	3.78	43	12512	10.489	ug/l	90
18) Methyl Acetate	4.29	43	7142	3.239	ug/l #	83
20) Methylene Chloride	4.50	84	9787	3.642	ug/l #	96
25) 2-Butanone	6.80	43	2582	1.904	ug/l #	84
29) Tetrahydrofuran	7.17	42	731	0.823	ug/l #	58
31) Cyclohexane	7.62	56	5224	1.363	ug/l #	34
36) 1,1-Dichloropropene	7.63	75	18346	4.334	ug/l #	44
38) Carbon Tetrachloride	7.63	117	20921	5.242	ug/l #	17
41) Methacrylonitrile	7.18	41	409	0.252	ug/l #	35
43) Isopropyl Acetate	8.13	43	71215	12.463	ug/l	97
45) 1,2-Dichloropropane	9.23	63	1890	0.594	ug/l #	43
48) Methyl methacrylate	9.15	41	4177	1.630	ug/l #	6
49) 1,4-Dioxane	9.23	88	65	1.144	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	5811	1.741	ug/l	89
54) cis-1,3-Dichloropropene	9.87	75	33470	6.557	ug/l #	69
56) Ethyl methacrylate	10.51	69	1933	0.468	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6504	1.221	ug/l #	42
59) 2-Hexanone	10.74	43	81776	33.921	ug/l #	49
71) Bromoform	12.37	173	922	0.407	ug/l #	1
74) N-amyl acetate	12.01	43	1653	3.721	ug/l #	43
76) 1,2,3-Trichloropropane	12.37	75	91487	27.139	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	7174	0.798	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.37	75	91487	79.257	ug/l #	13

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

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Acq On : 2 Jul 2020 5:57
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 46 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062324.D

Acq: 2 Jul 2020 5:57

Instrument :

MSVOA_N

ClientSampleId :

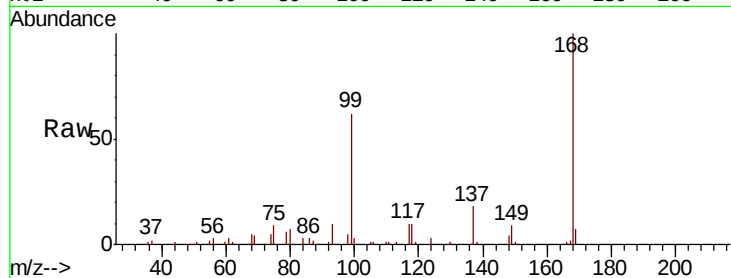
PB129873ZHE#10

Tot Ion:168 Resp: 197673

Ion Ratio Lower Upper

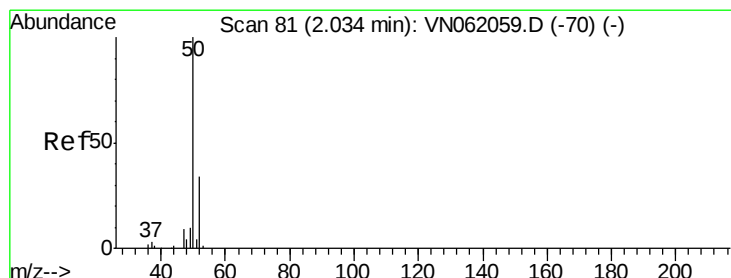
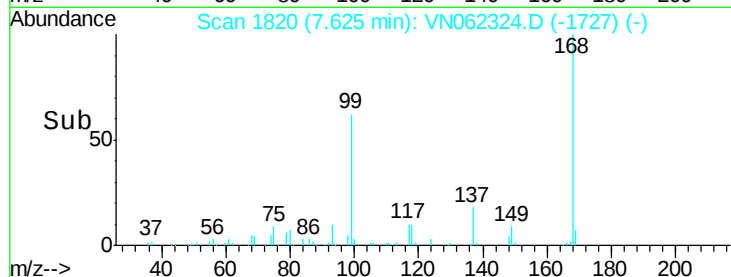
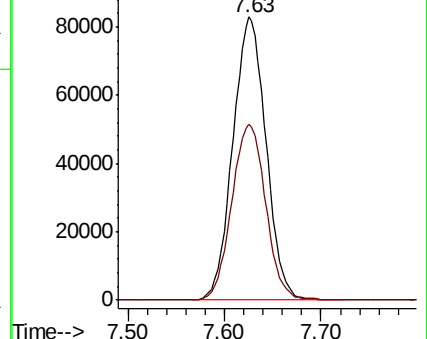
168 100

99 62.0 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN062324.D

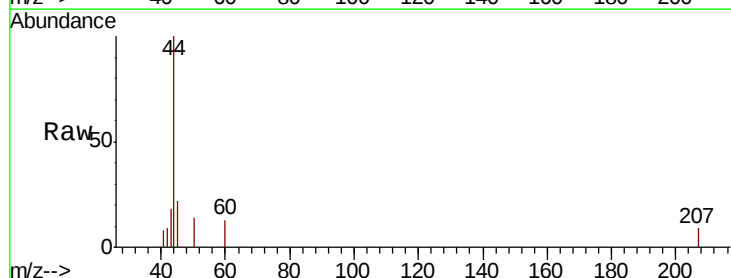
Acq: 2 Jul 2020 5:57

Tgt Ion: 50 Resp: 261

Ion Ratio Lower Upper

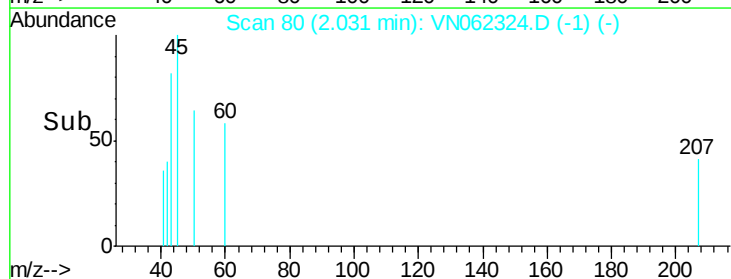
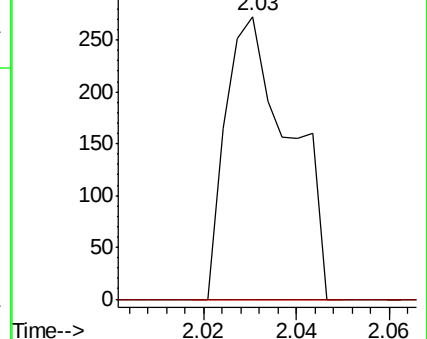
50 100

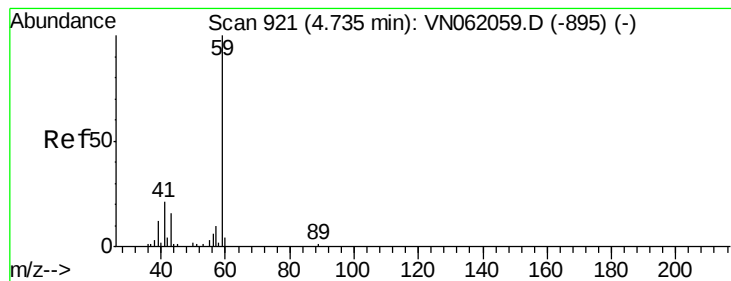
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



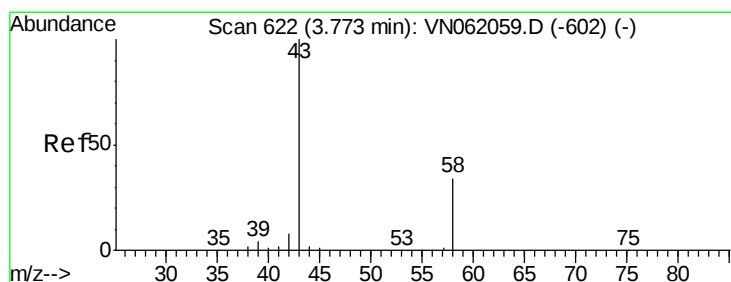
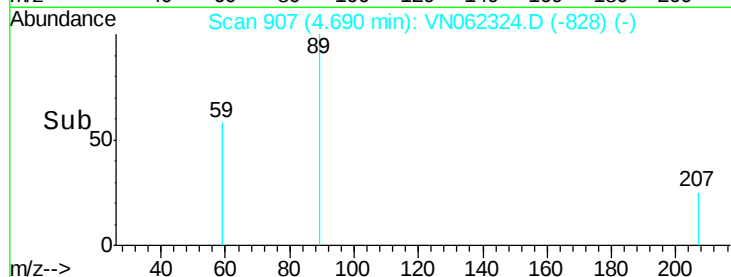
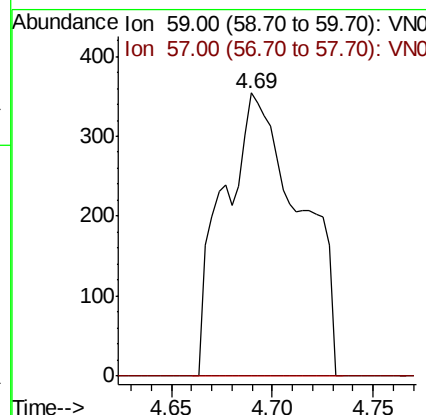
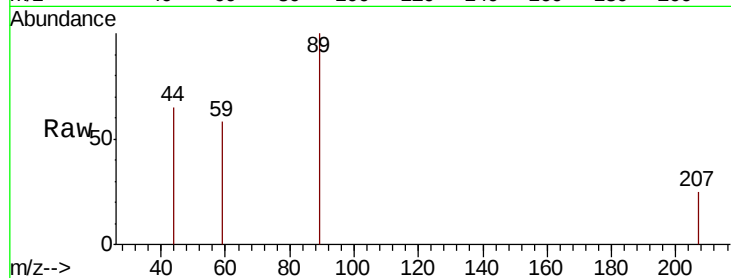


#11

Tert butyl alcohol
 Concen: 2.338 ug/l
 RT: 4.69 min Scan# 907
 Delta R.T. -0.05 min
 Lab File: VN062324.D
 Acq: 2 Jul 2020 5:57

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129873ZHE#10

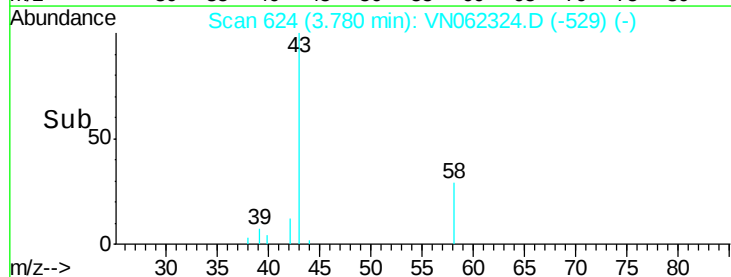
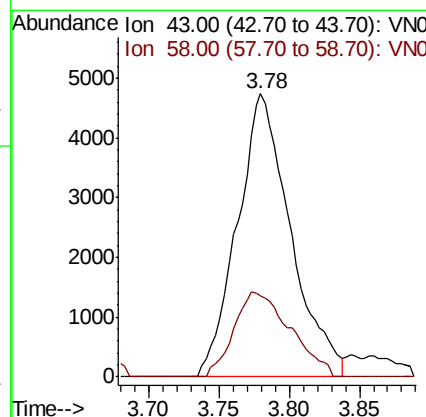
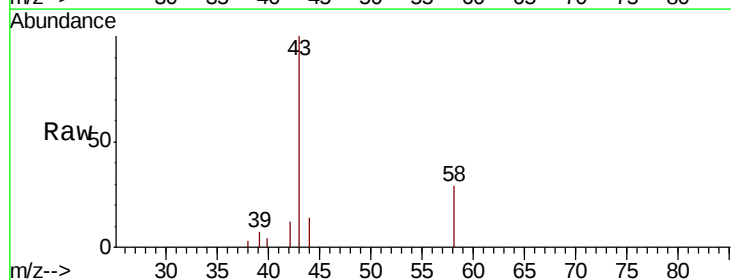
Tot Ion: 59 Resp: 931
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#



#16

Acetone
 Concen: 10.489 ug/l
 RT: 3.78 min Scan# 624
 Delta R.T. 0.01 min
 Lab File: VN062324.D
 Acq: 2 Jul 2020 5:57

Tgt Ion: 43 Resp: 12512
 Ion Ratio Lower Upper
 43 100
 58 28.5 27.5 41.3

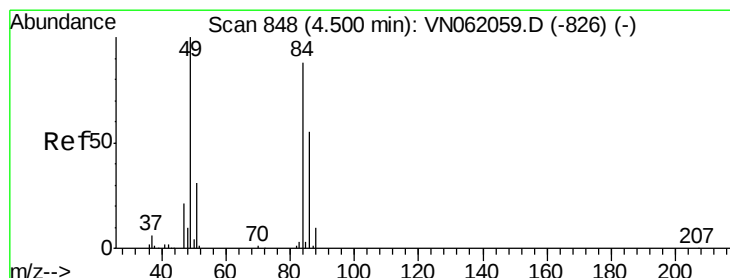
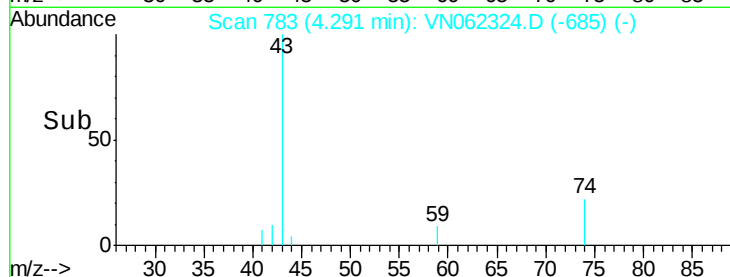
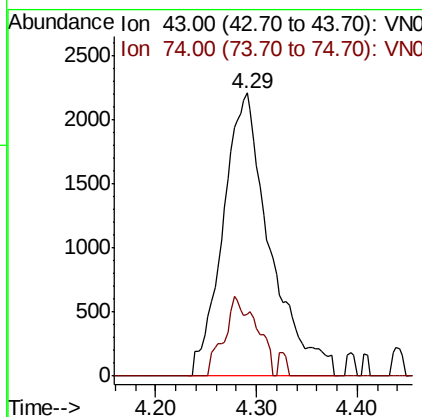
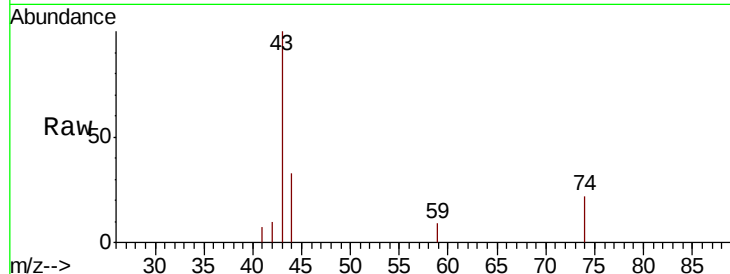




#18
Methyl Acetate
Concen: 3.239 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.02 min
Lab File: VN062324.D
Acq: 2 Jul 2020 5:57

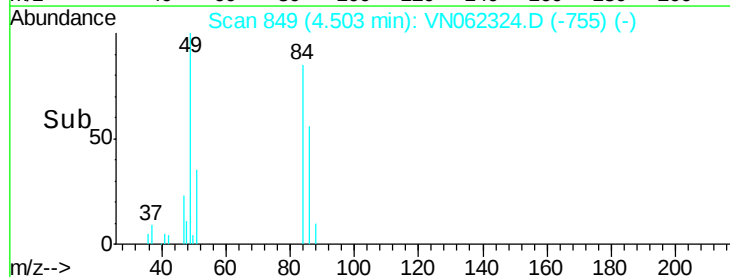
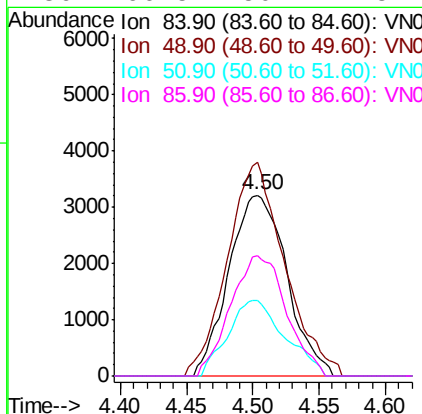
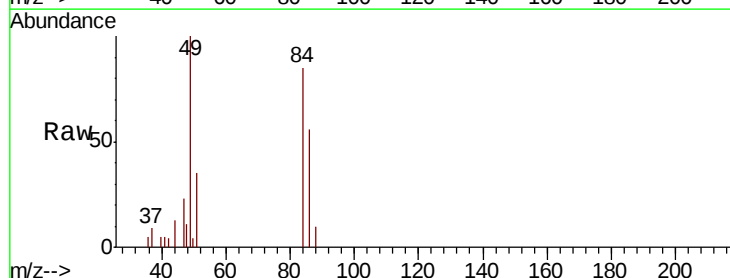
Instrument :
MSVOA_N
ClientSampleId :
PB129873ZHE#10

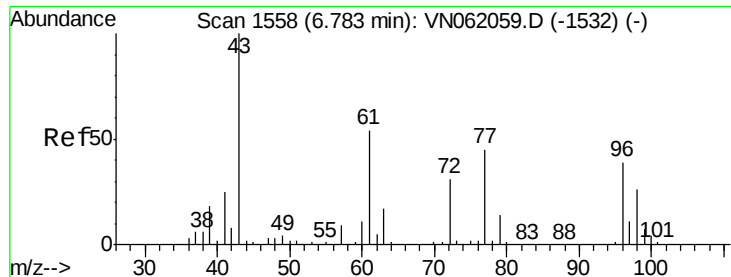
Tot Ion: 43 Resp: 7142
Ion Ratio Lower Upper
43 100
74 19.4 22.9 34.3#



#20
Methylene Chloride
Concen: 3.642 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062324.D
Acq: 2 Jul 2020 5:57

Tgt Ion: 84 Resp: 9787
Ion Ratio Lower Upper
84 100
49 113.0 90.6 136.0
51 41.8 27.8 41.8#
86 66.5 50.1 75.1





#25

2-Butanone

Concen: 1.904 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.02 min

Lab File: VN062324.D

Acq: 2 Jul 2020 5:57

Instrument :

MSVOA_N

ClientSampleId :

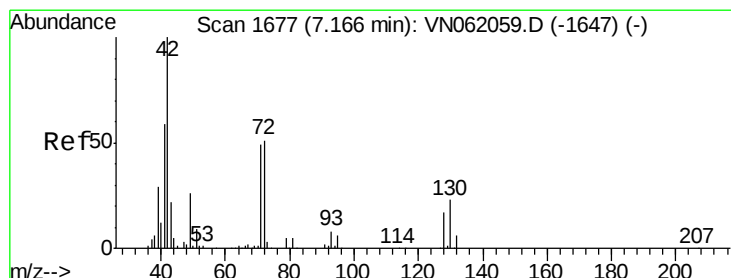
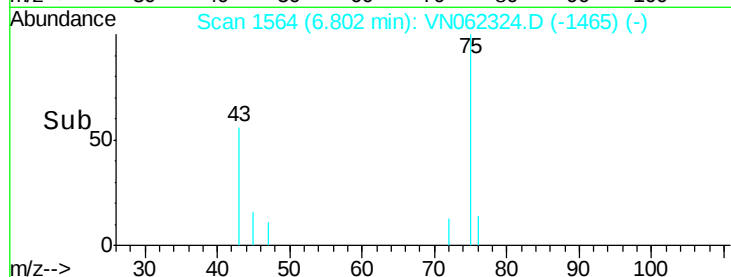
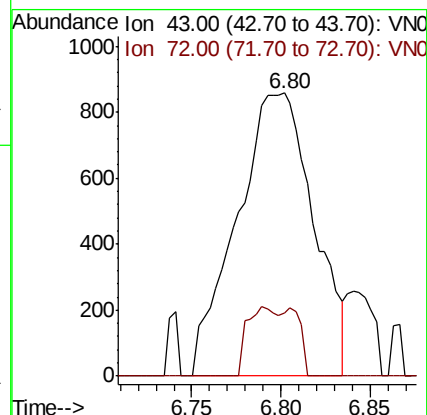
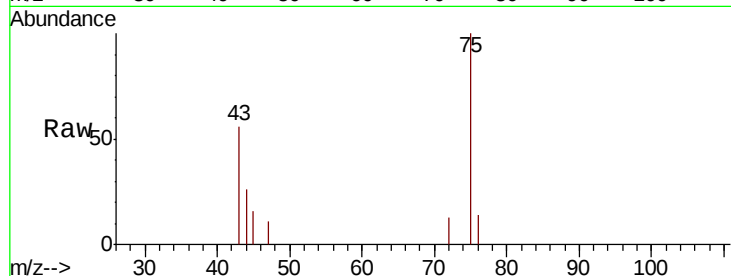
PB129873ZHE#10

Tot Ion: 43 Resp: 2582

Ion Ratio Lower Upper

43 100

72 22.3 24.8 37.2#



#29

Tetrahydrofuran

Concen: 0.823 ug/l

RT: 7.17 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN062324.D

Acq: 2 Jul 2020 5:57

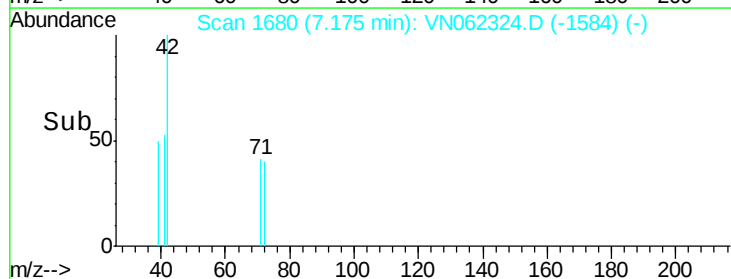
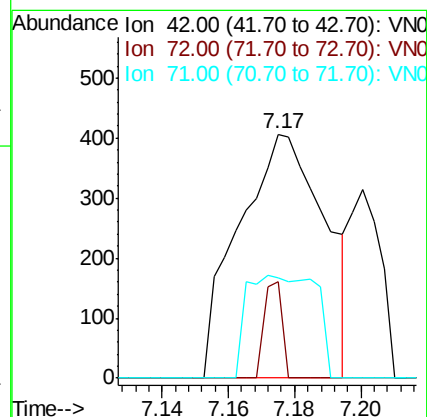
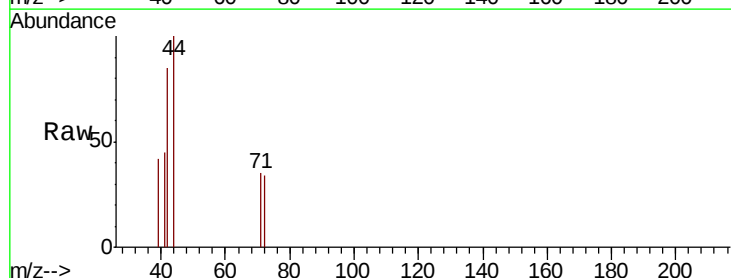
Tgt Ion: 42 Resp: 731

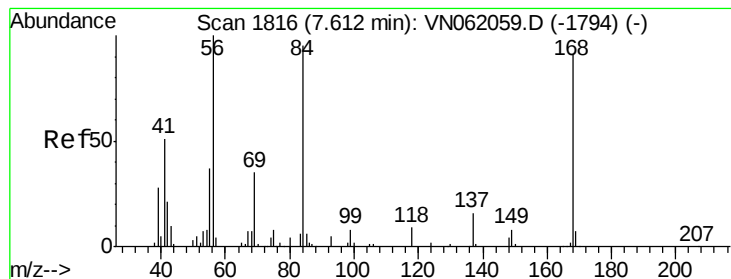
Ion Ratio Lower Upper

42 100

72 8.3 41.1 61.7#

71 34.2 38.2 57.4#





#31

Cvclohexane

Concen: 1.363 ug/l

RT: 7.62 min Scan# 1816

Delta R.T. 0.01 min

Lab File: VN062324.D

Acq: 2 Jul 2020 5:57

Instrument :

MSVOA_N

ClientSampleId :

PB129873ZHE#10

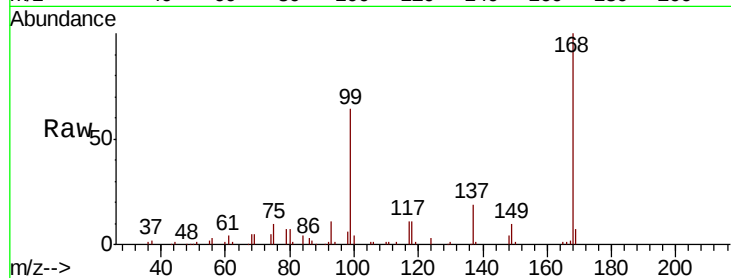
Tot Ion: 56 Resp: 5224

Ion Ratio Lower Upper

56 100

69 141.8 28.0 42.0#

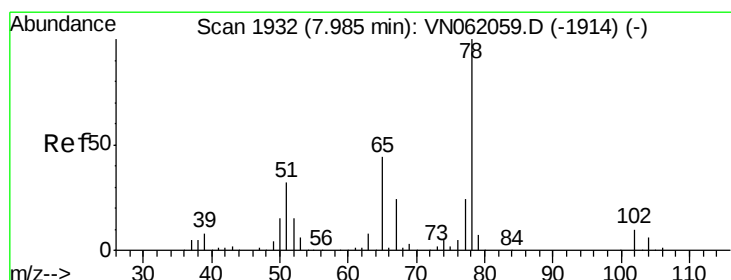
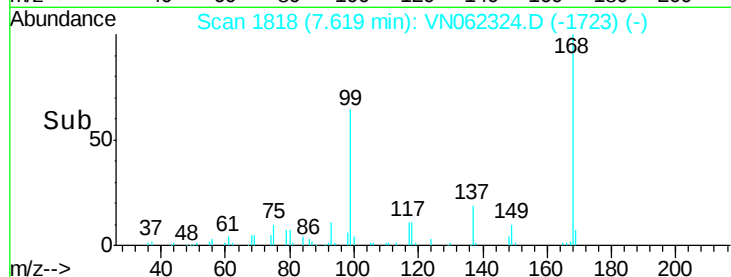
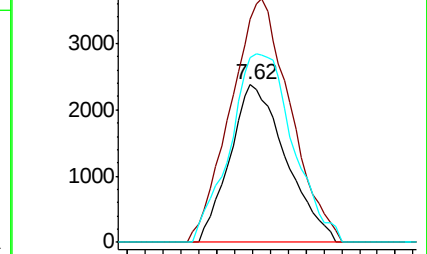
84 117.0 76.1 114.1#



Abundance Ion 56.00 (55.70 to 56.70): VN062324.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN062324.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN062324.D (-1723) (-)



#33

1,2-Dichloroethane-d4

Concen: 60.022 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062324.D

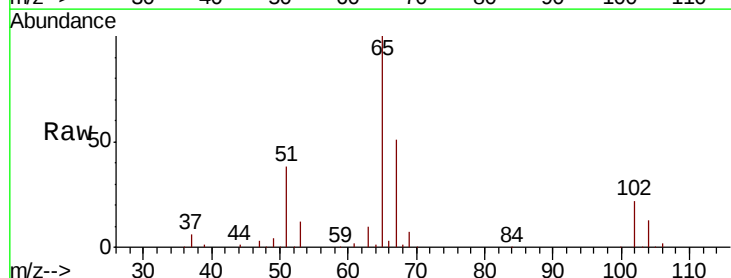
Acq: 2 Jul 2020 5:57

Tgt Ion: 65 Resp: 166501

Ion Ratio Lower Upper

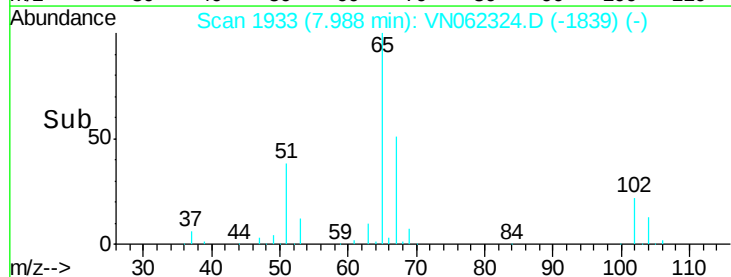
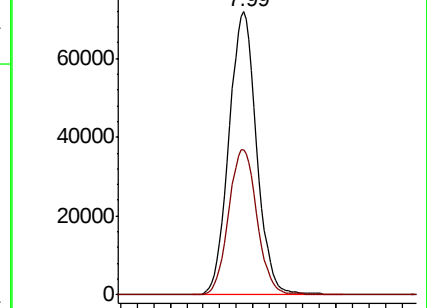
65 100

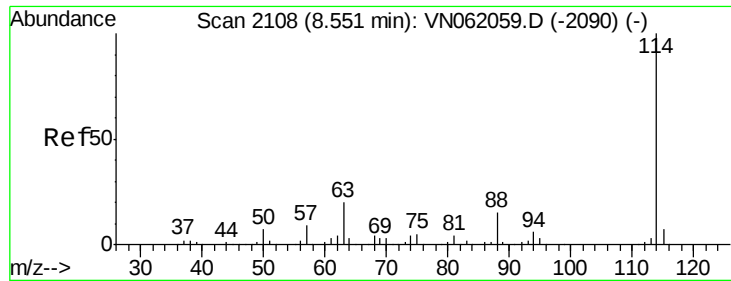
67 52.7 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN062324.D (-1839) (-)

Ion 66.90 (66.60 to 67.60): VN062324.D (-1839) (-)

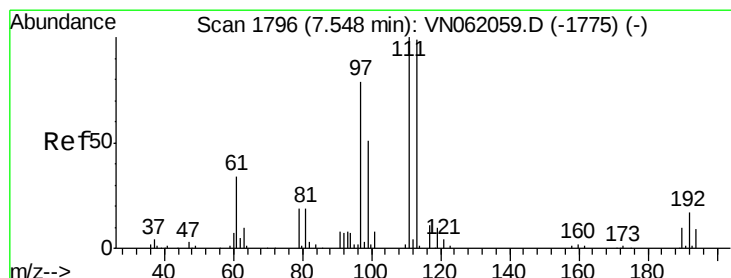
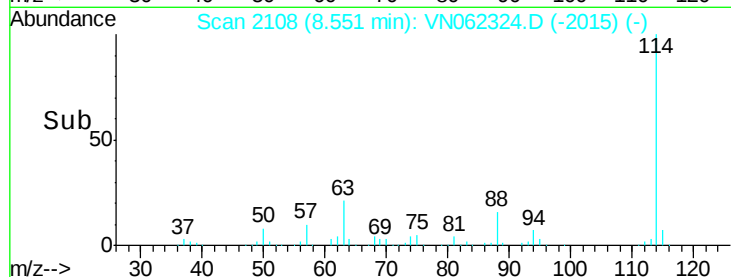
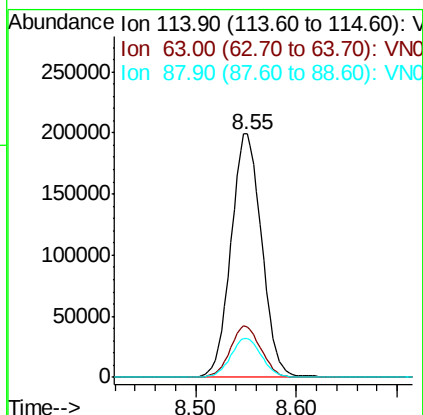
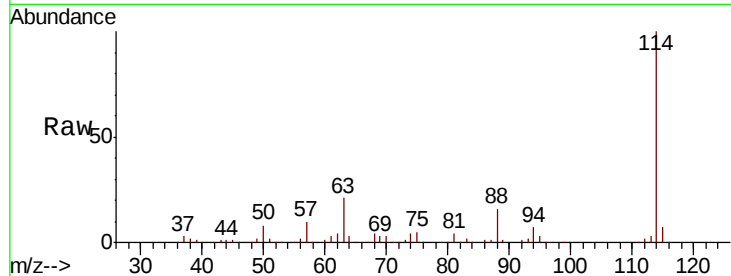




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062324.D
 Acq: 2 Jul 2020 5:57

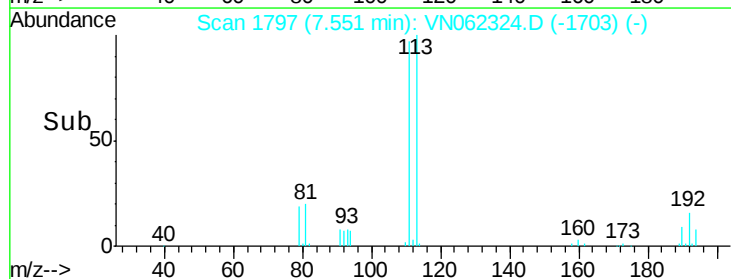
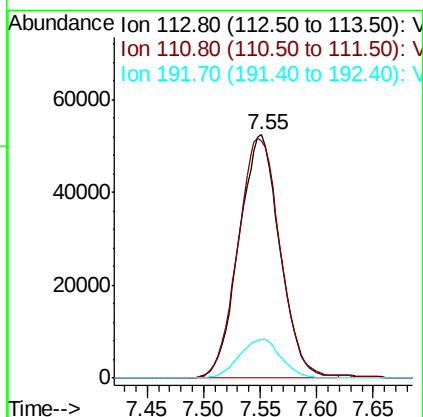
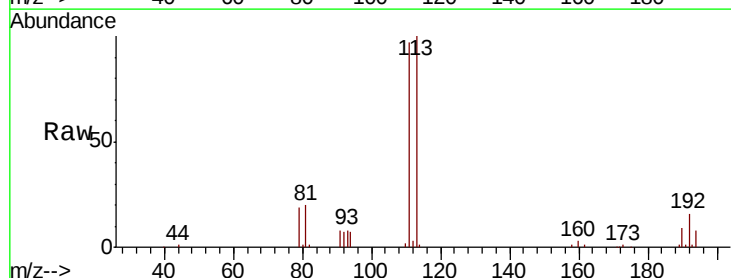
Instrument :
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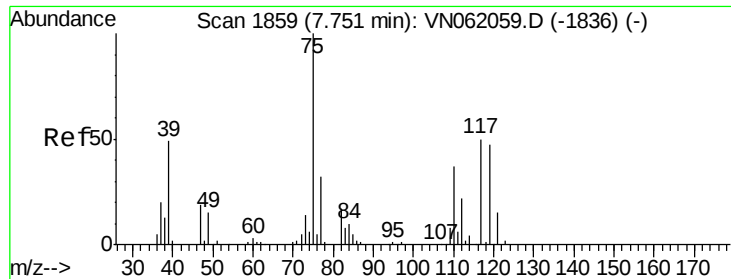
Tot Ion:114 Resp: 421153
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 39.2
 88 15.9 0.0 30.8



#35
 Dibromofluoromethane
 Concen: 48.791 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062324.D
 Acq: 2 Jul 2020 5:57

Tgt Ion:113 Resp: 131828
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.2 123.4
 192 16.3 14.0 21.0

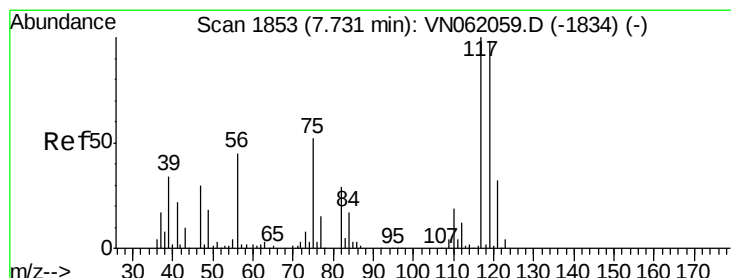
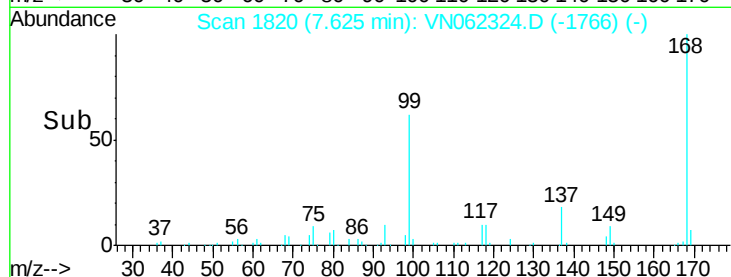
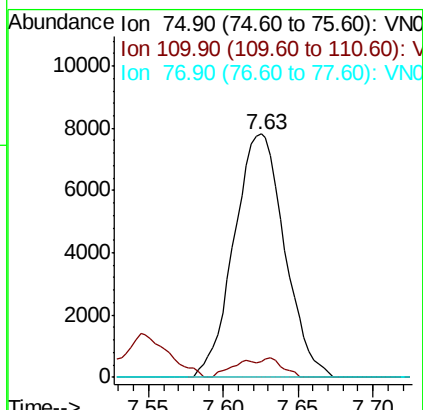
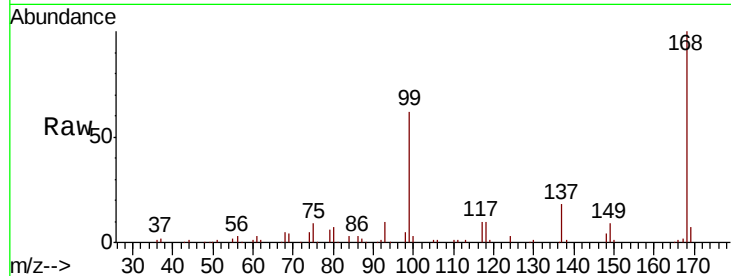




#36
 1,1-Dichloropropene
 Concen: 4.334 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062324.D
 Acq: 2 Jul 2020 5:57

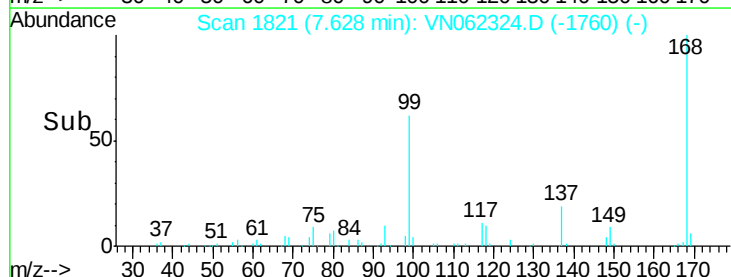
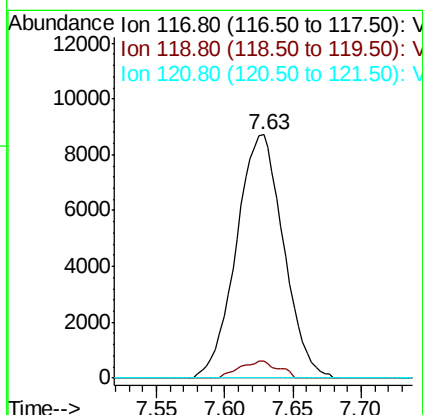
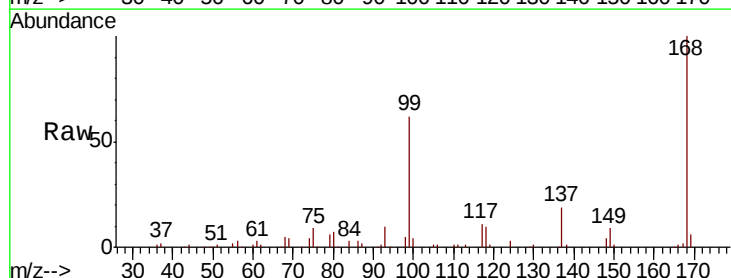
Instrument :
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 PB129873ZHE#10

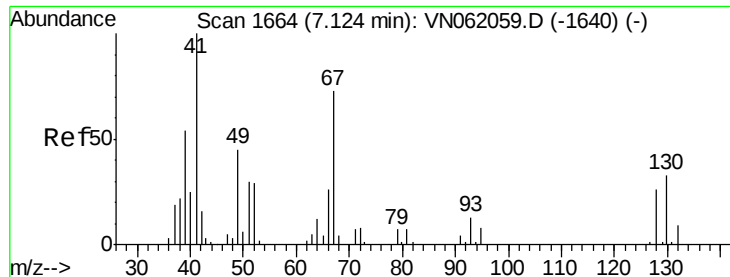
Tot Ion	Ratio	Lower	Upper
75	100		
110	3.6	17.9	53.8#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.242 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.10 min
 Lab File: VN062324.D
 Acq: 2 Jul 2020 5:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.2	78.2	117.2#
121	0.0	25.8	38.6#

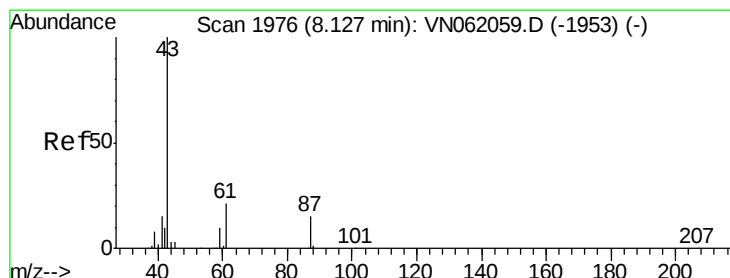
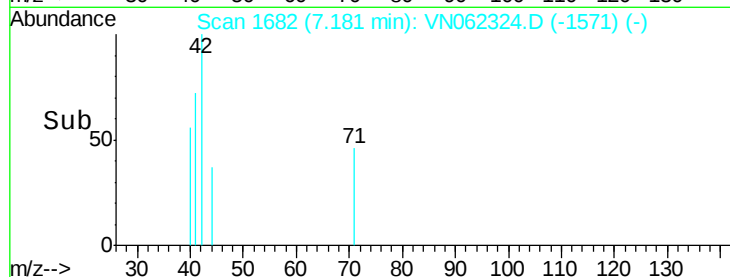
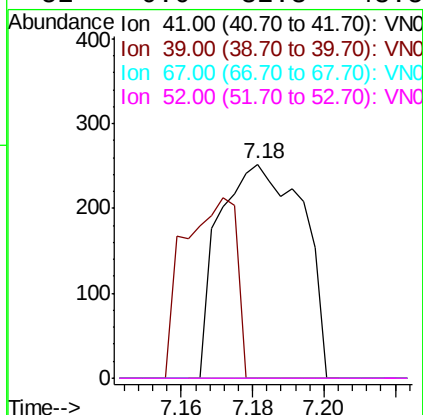
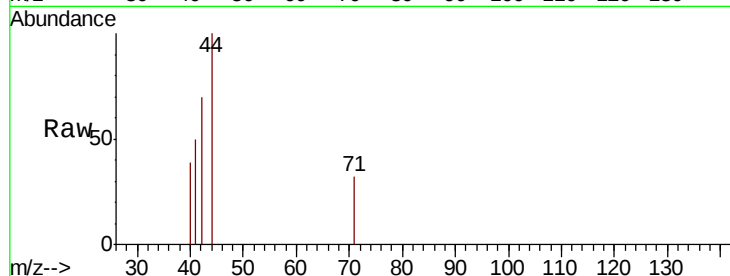




#41
Methacrylonitrile
Concen: 0.252 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.06 min
Lab File: VN062324.D
Acq: 2 Jul 2020 5:57

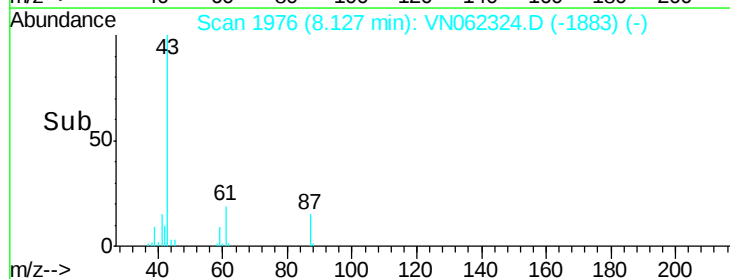
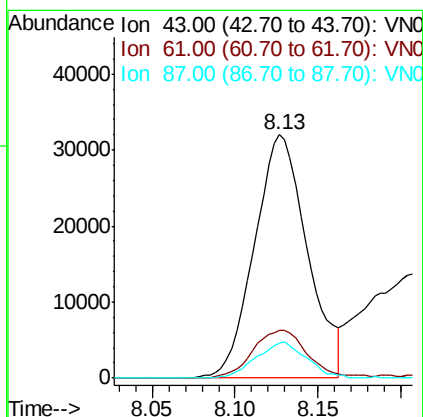
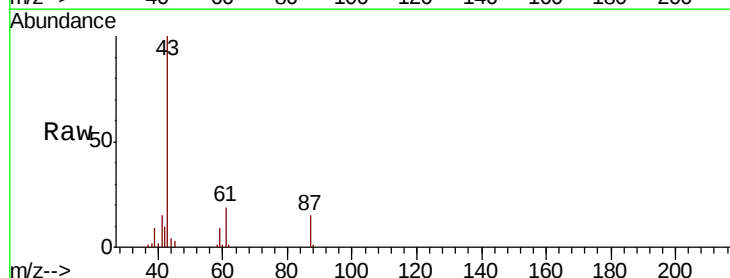
Instrument :
MSVOA_N
ClientSampleId :
PB129873ZHE#10

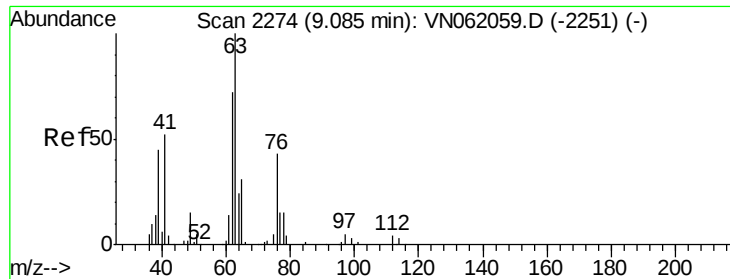
Tot Ion: 41 Resp: 409
Ion Ratio Lower Upper
41 100
39 52.8 44.2 66.2
67 0.0 79.5 119.3#
52 0.0 32.3 48.5#



#43
Isopropyl Acetate
Concen: 12.463 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN062324.D
Acq: 2 Jul 2020 5:57

Tgt Ion: 43 Resp: 71215
Ion Ratio Lower Upper
43 100
61 19.8 17.2 25.8
87 14.1 12.1 18.1

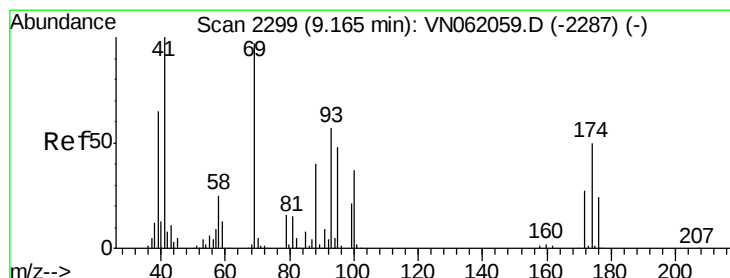
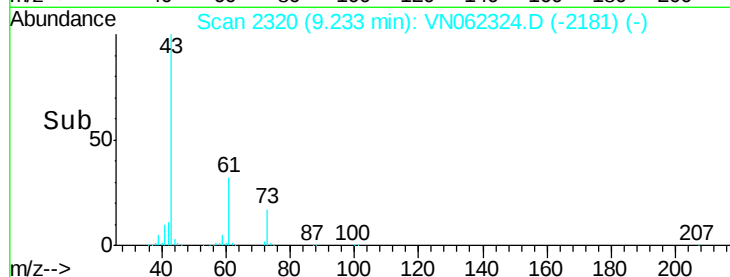
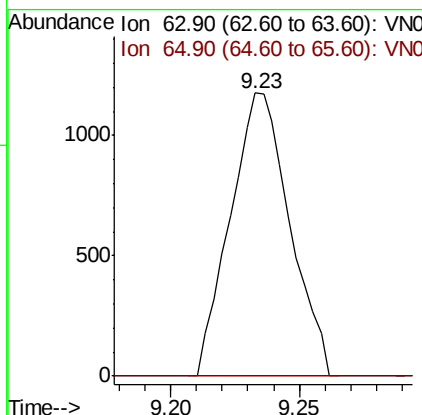
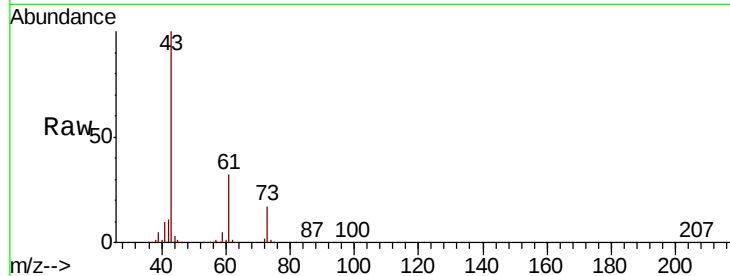




#45
 1,2-Dichloropropane
 Concen: 0.594 ug/l
 RT: 9.23 min Scan# 2320
 Delta R.T. 0.15 min
 Lab File: VN062324.D
 Acq: 2 Jul 2020 5:57

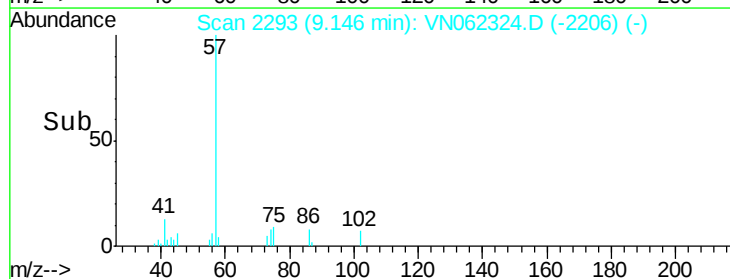
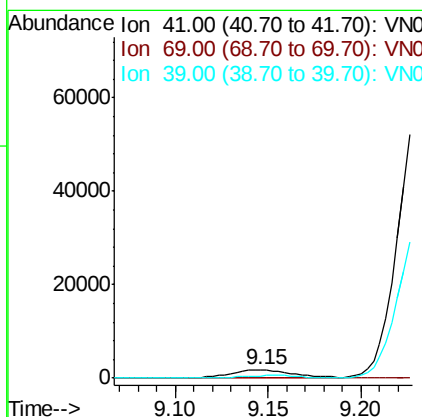
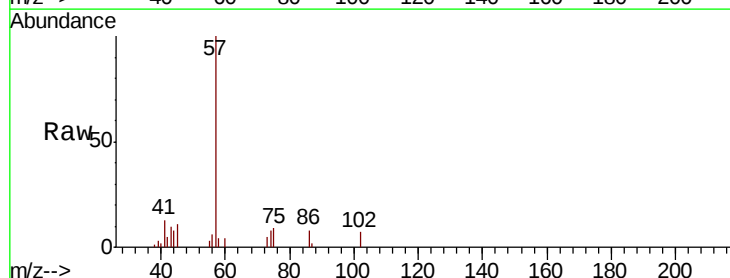
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129873ZHE#10

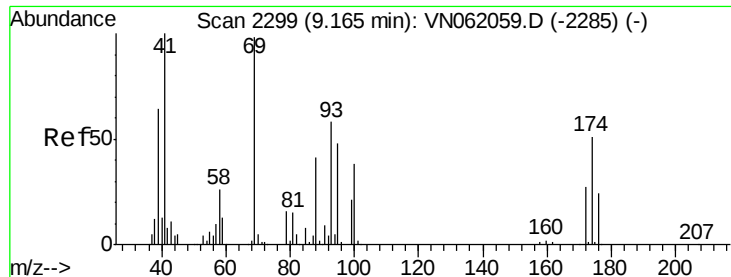
Tot Ion: 63 Resp: 1890
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.630 ug/l
 RT: 9.15 min Scan# 2293
 Delta R.T. -0.02 min
 Lab File: VN062324.D
 Acq: 2 Jul 2020 5:57

Tgt Ion: 41 Resp: 4177
 Ion Ratio Lower Upper
 41 100
 69 0.0 80.7 121.1#
 39 0.0 54.5 81.7#





#49

1,4-Dioxane

Concen: 1.144 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.07 min

Lab File: VN062324.D

Acq: 2 Jul 2020 5:57

Instrument :

MSVOA_N

ClientSampleId :

PB129873ZHE#10

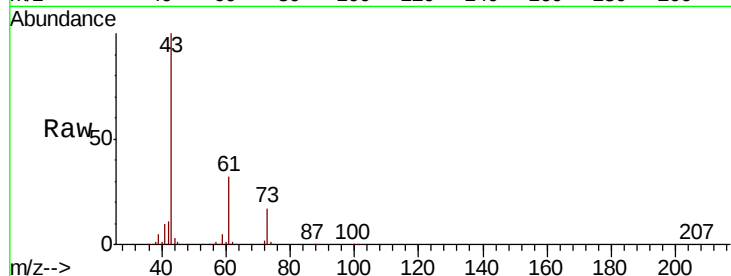
Tot Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 2004118.5 22.0 33.0#

58 10135.4 49.2 73.8#

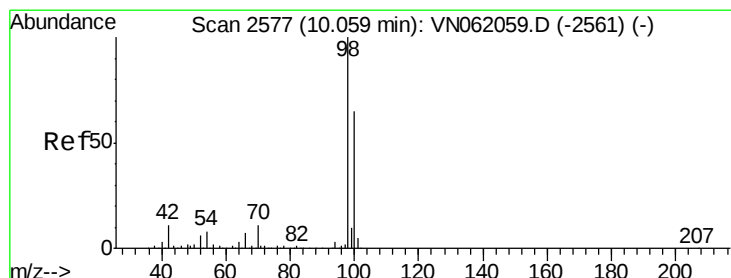
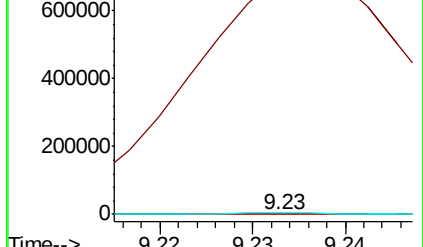
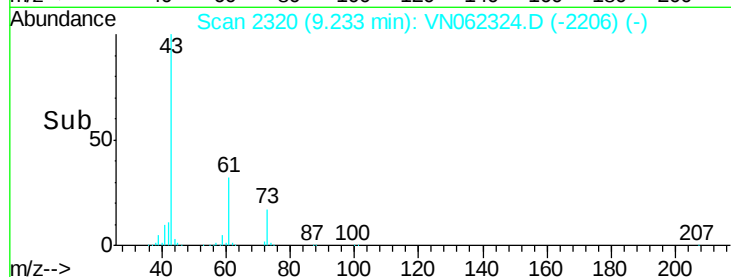


Abundance Ion 88.00 (87.70 to 88.70): VN062324.D (-2206) (-)

Ion 43.00 (42.70 to 43.70): VN062324.D (-2206) (-)

Ion 58.00 (57.70 to 58.70): VN062324.D (-2206) (-)

Time-->



#50

Toluene-d8

Concen: 51.891 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062324.D

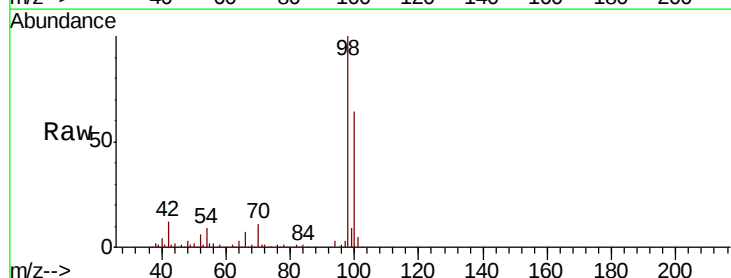
Acq: 2 Jul 2020 5:57

Tgt Ion: 98 Resp: 560438

Ion Ratio Lower Upper

98 100

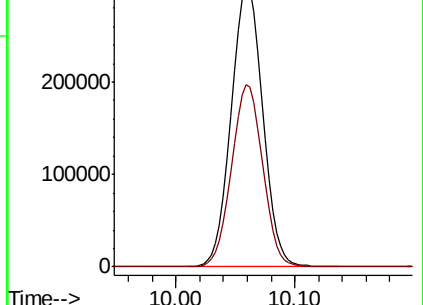
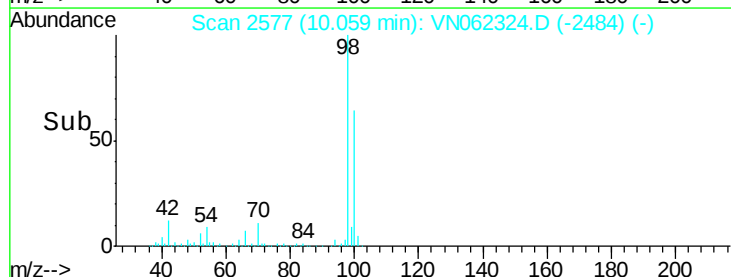
100 63.9 51.2 76.8

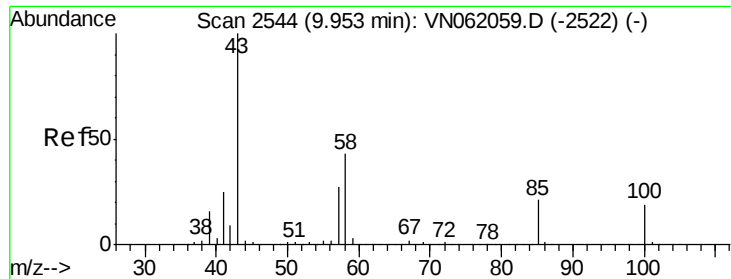


Abundance Ion 98.00 (97.70 to 98.70): VN062324.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062324.D (-2484) (-)

Time-->





#51

4-Methyl-2-Pentanone

Concen: 1.741 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062324.D

Acq: 2 Jul 2020 5:57

Instrument :

MSVOA_N

ClientSampleId :

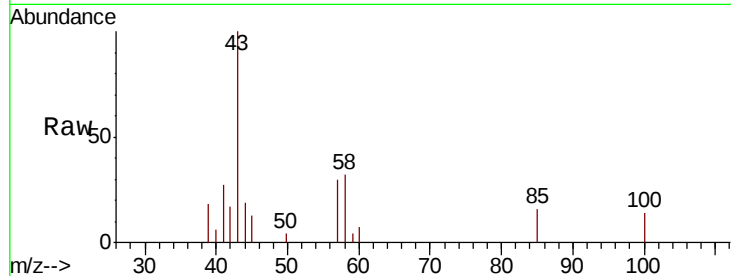
PB129873ZHE#10

Tot Ion: 43 Resp: 5811

Ion Ratio Lower Upper

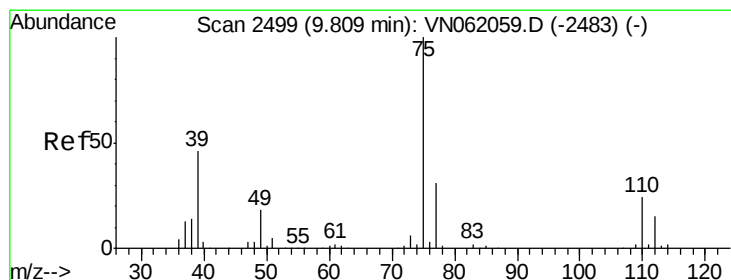
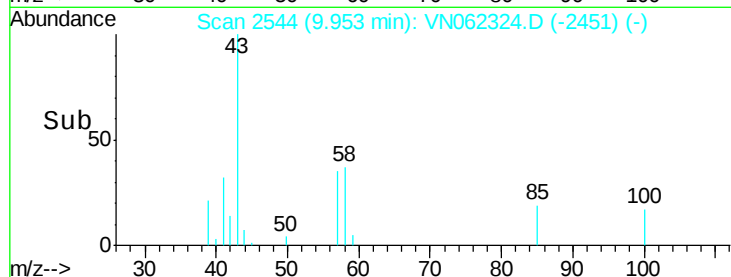
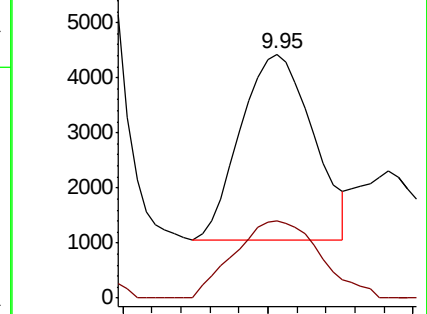
43 100

58 49.7 34.2 51.2



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-2522) (-)

Ion 58.00 (57.70 to 58.70): VN062059.D (-2522) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.557 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062324.D

Acq: 2 Jul 2020 5:57

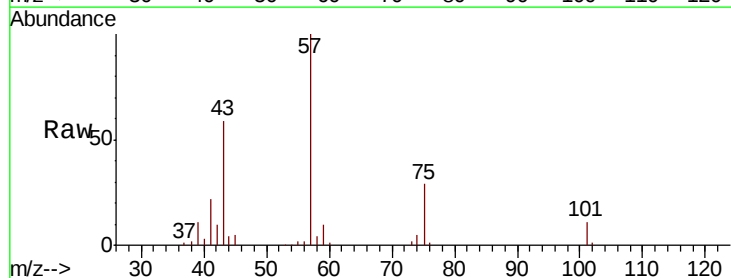
Tgt Ion: 75 Resp: 33470

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

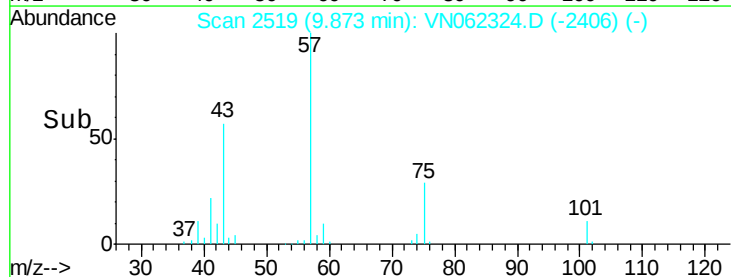
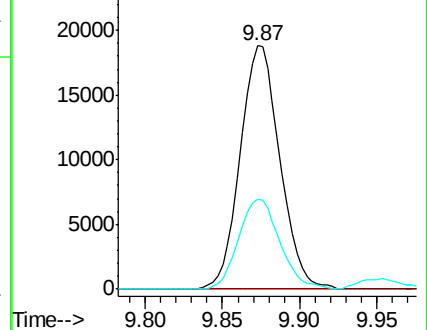
39 37.1 36.9 55.3

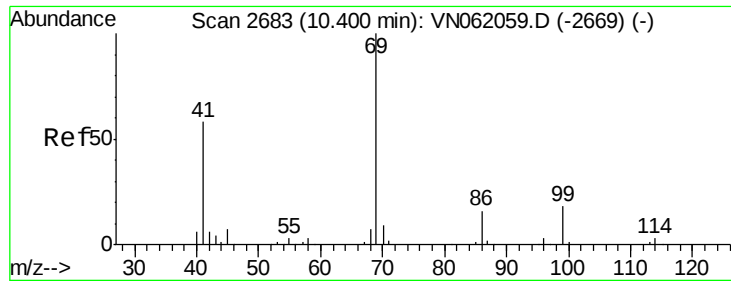


Abundance Ion 74.90 (74.60 to 75.60): VN062059.D (-2483) (-)

Ion 76.90 (76.60 to 77.60): VN062059.D (-2483) (-)

Ion 39.00 (38.70 to 39.70): VN062059.D (-2483) (-)





#56

Ethyl methacrylate

Concen: 0.468 ug/l

RT: 10.51 min Scan# 2717

Delta R.T. 0.11 min

Lab File: VN062324.D

Acq: 2 Jul 2020 5:57

Instrument :

MSVOA_N

ClientSampleId :

PB129873ZHE#10

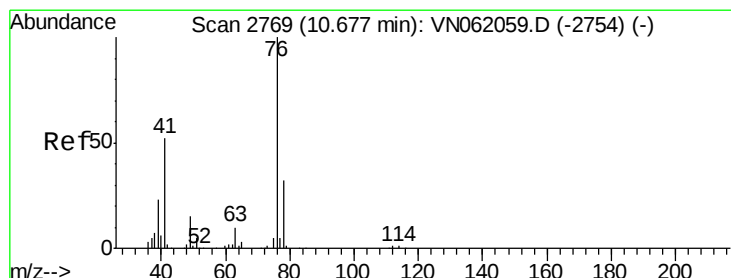
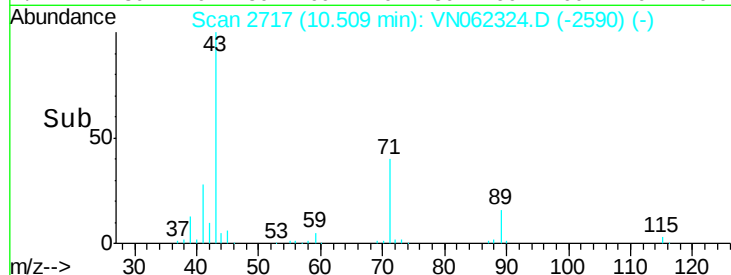
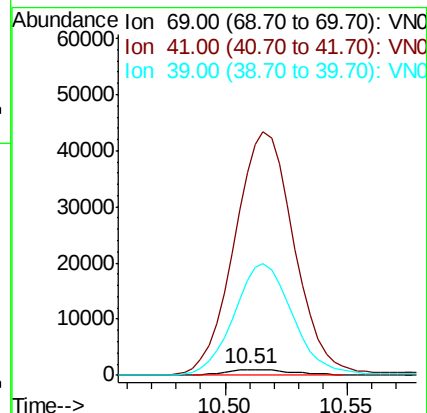
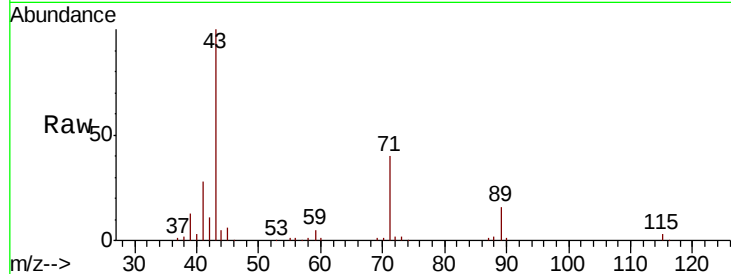
Tot Ion: 69 Resp: 1933

Ion Ratio Lower Upper

69 100

41 3831.6 46.6 70.0#

39 1739.2 31.0 46.4#



#57

1,3-Dichloropropane

Concen: 1.221 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062324.D

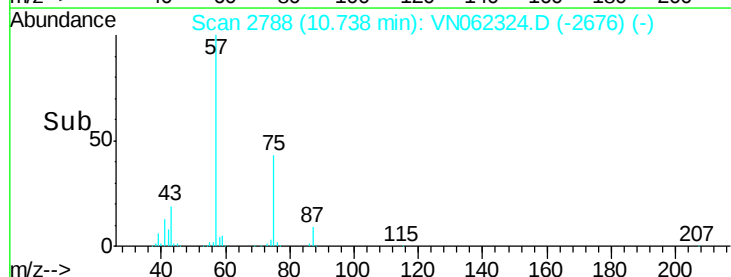
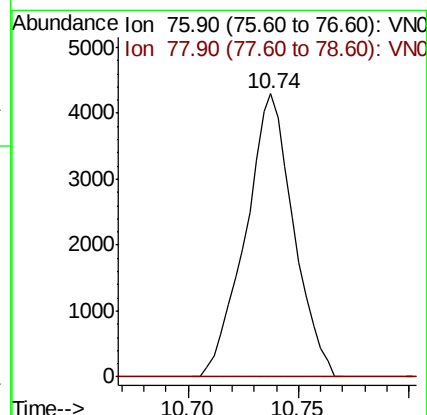
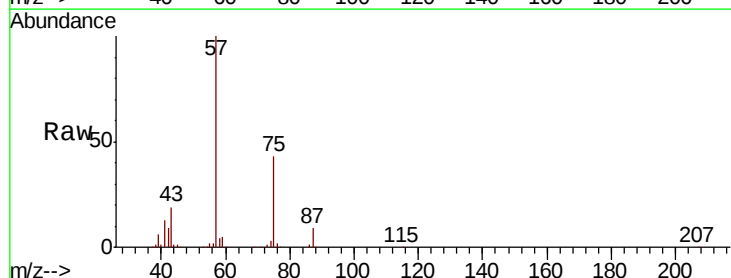
Acq: 2 Jul 2020 5:57

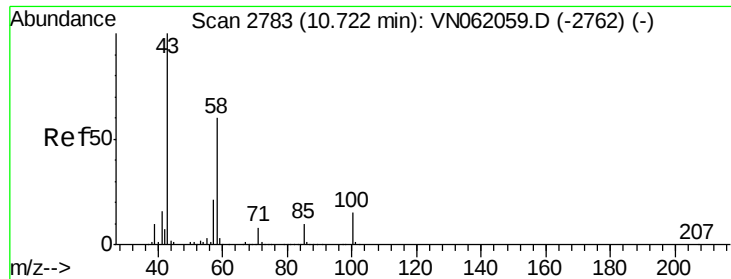
Tgt Ion: 76 Resp: 6504

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#

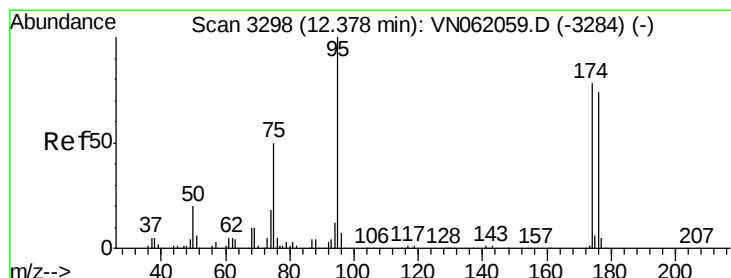
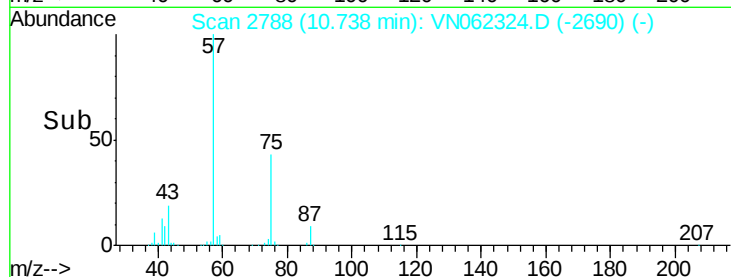
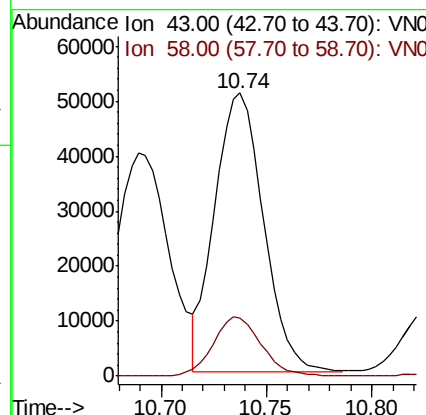
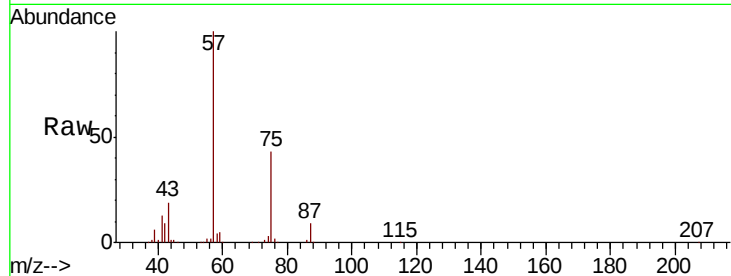




#59
2-Hexanone
Concen: 33.921 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062324.D
Acq: 2 Jul 2020 5:57

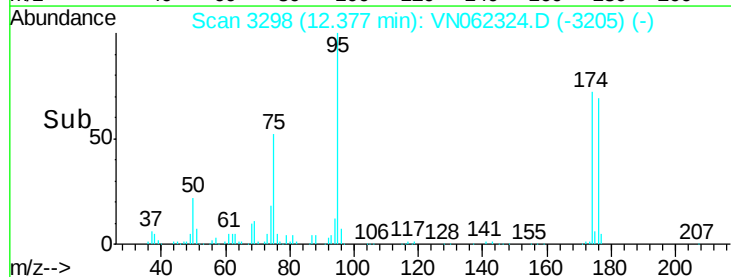
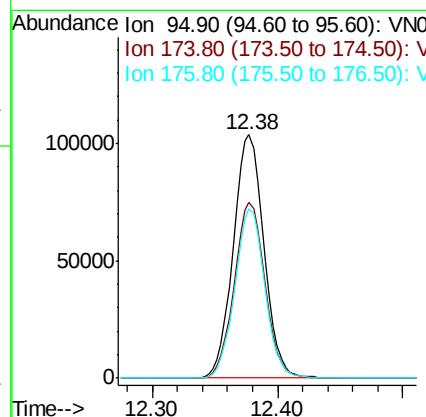
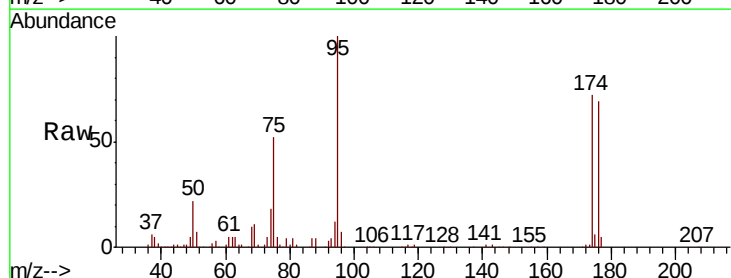
Instrument :
MSVOA_N
ClientSampleId :
PB129873ZHE#10

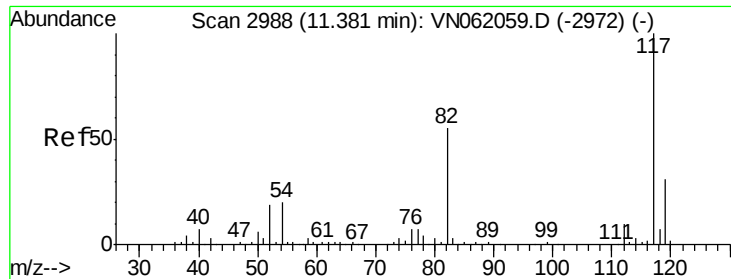
Tot Ion: 43 Resp: 81776
Ion Ratio Lower Upper
43 100
58 20.8 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 48.149 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062324.D
Acq: 2 Jul 2020 5:57

Tgt Ion: 95 Resp: 175694
Ion Ratio Lower Upper
95 100
174 72.3 0.0 154.8
176 68.1 0.0 147.4

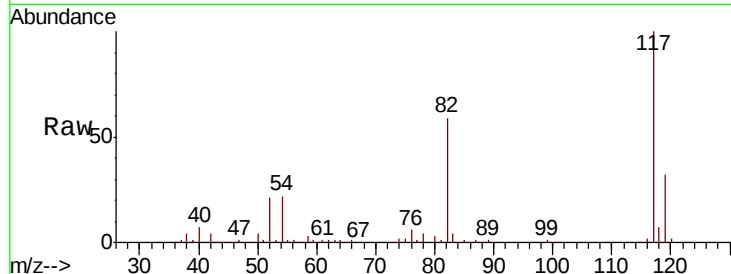




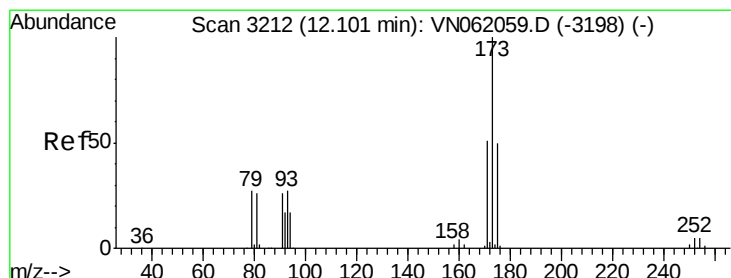
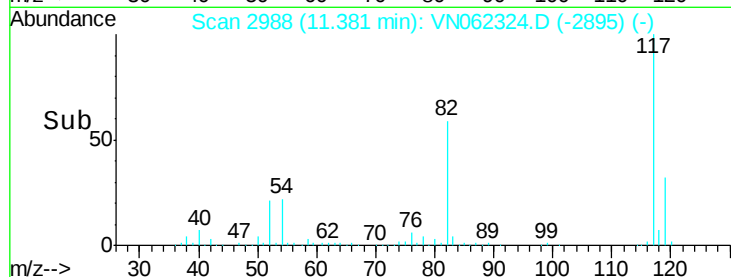
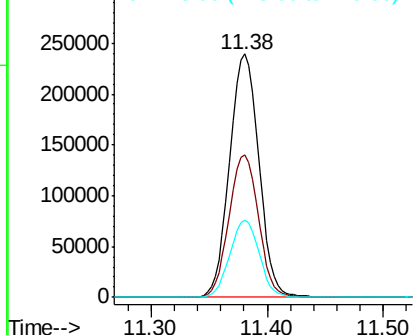
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062324.D
Acq: 2 Jul 2020 5:57

Instrument :
MSVOA_N
ClientSampleId :
PB129873ZHE#10

Tot Ion:117 Resp: 419853
Ion Ratio Lower Upper
117 100
82 58.5 43.8 65.8
119 31.8 25.2 37.8

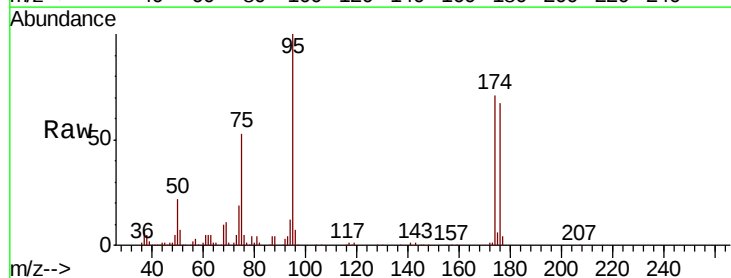


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

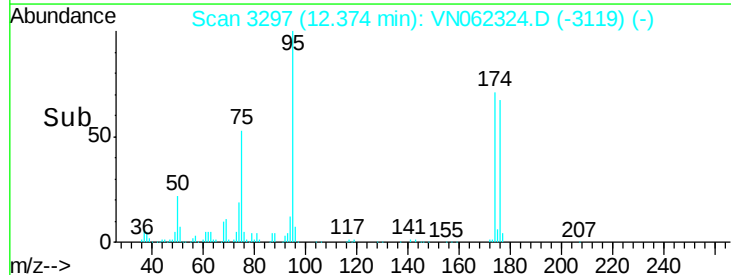
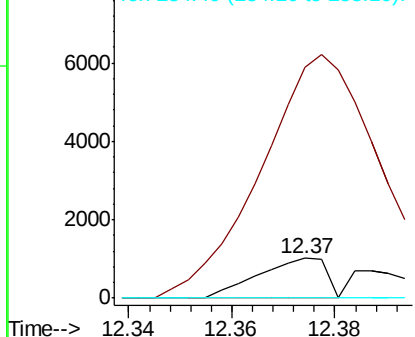


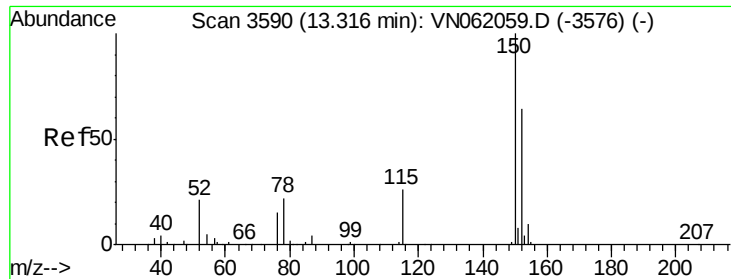
#71
Bromoform
Concen: 0.407 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN062324.D
Acq: 2 Jul 2020 5:57

Tgt Ion:173 Resp: 922
Ion Ratio Lower Upper
173 100
175 916.1 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: VN062324.D

Acq: 2 Jul 2020 5:57

Instrument :

MSVOA_N

ClientSampleId :

PB129873ZHE#10

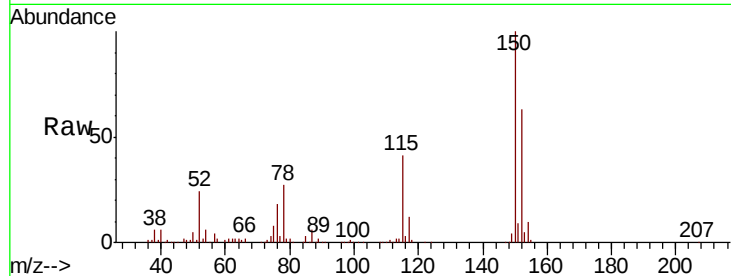
Tot Ion:152 Resp: 143198

Ion Ratio Lower Upper

152 100

115 62.3 29.5 88.5

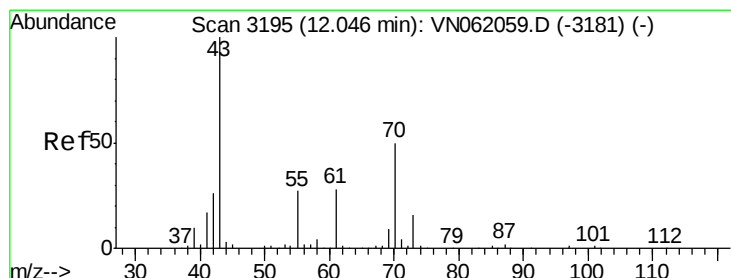
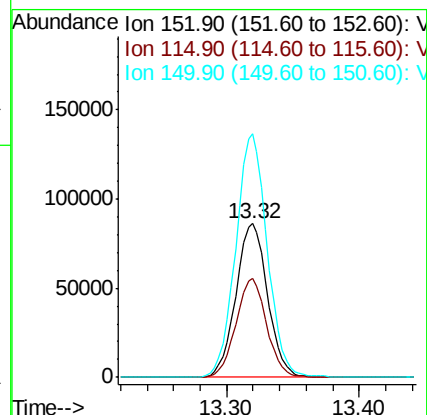
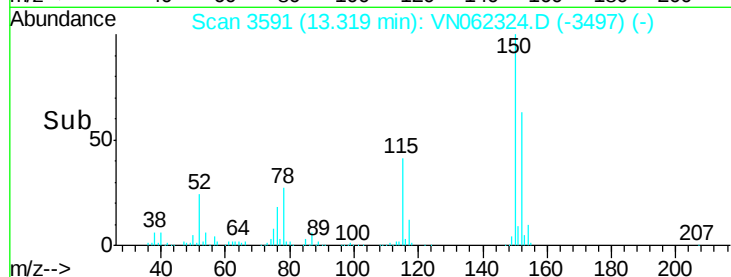
150 157.2 0.0 351.4



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: 3.721 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062324.D

Acq: 2 Jul 2020 5:57

Tgt Ion: 43 Resp: 1653

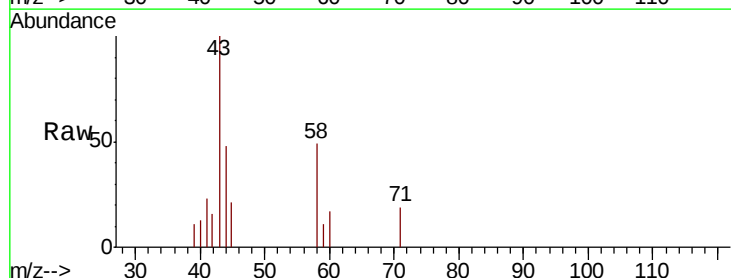
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 8.1 21.7 32.5#

61 0.0 21.3 31.9#

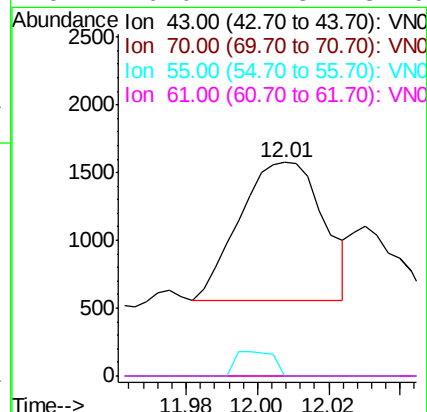
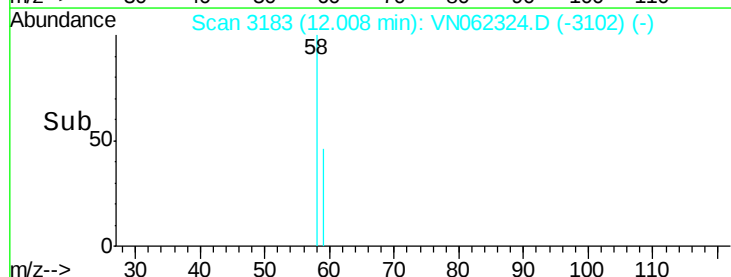


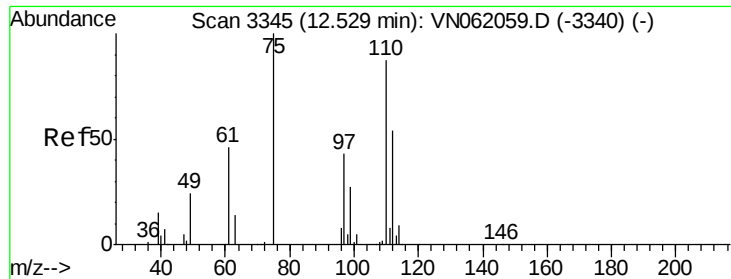
Abundance Ion 43.00 (42.70 to 43.70): V

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

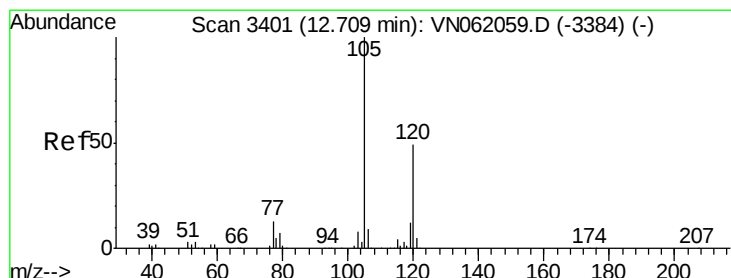
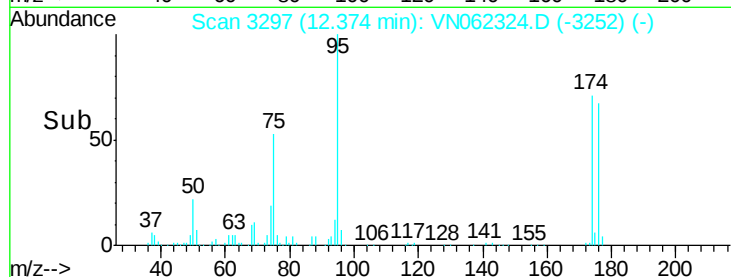
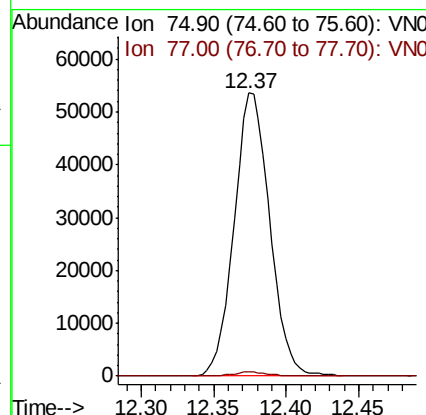
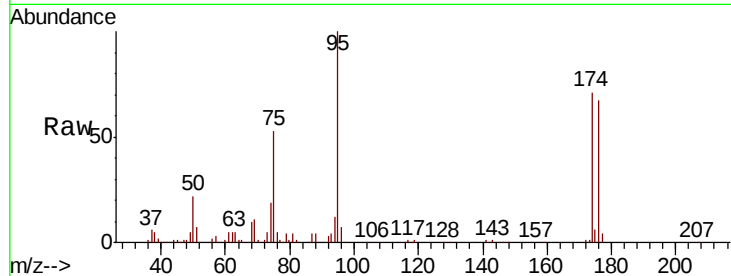




#76
 1,2,3-Trichloropropane
 Concen: 27.139 ug/l
 RT: 12.37 min Scan# 3297
 Delta R.T. -0.15 min
 Lab File: VN062324.D
 Acq: 2 Jul 2020 5:57

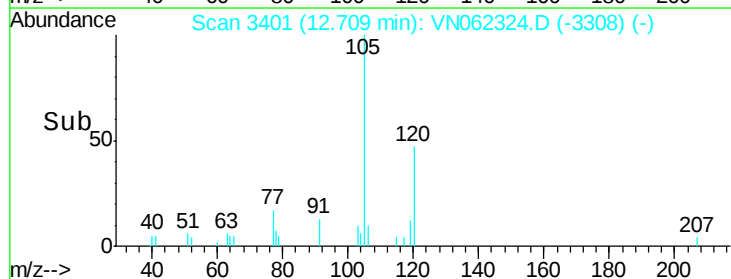
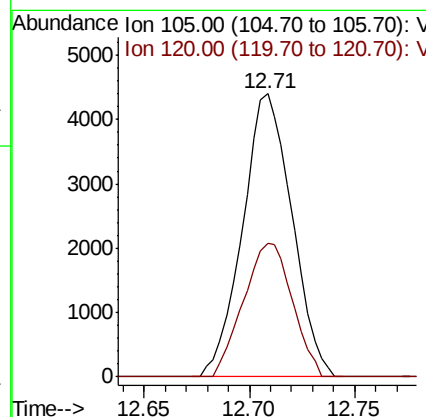
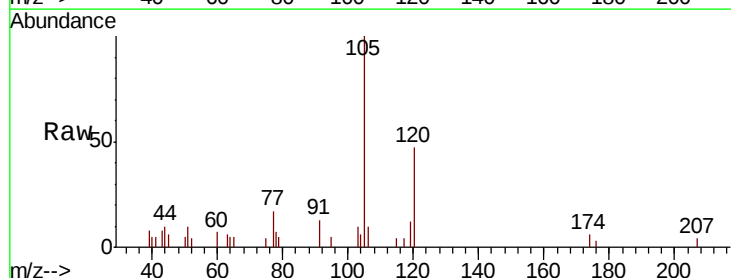
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129873ZHE#10

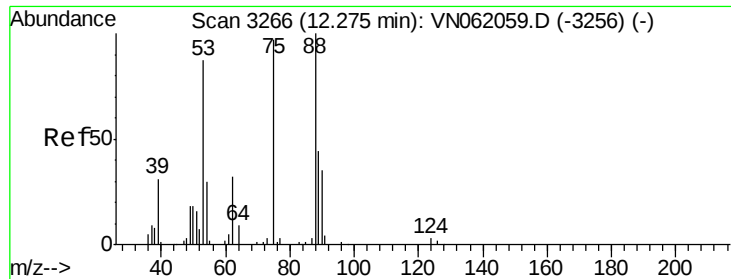
Tot Ion: 75 Resp: 91487
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.798 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. -0.00 min
 Lab File: VN062324.D
 Acq: 2 Jul 2020 5:57

Tgt Ion: 105 Resp: 7174
 Ion Ratio Lower Upper
 105 100
 120 46.5 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 79.257 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN062324.D

Acq: 2 Jul 2020 5:57

Instrument :

MSVOA_N

ClientSampleId :

PB129873ZHE#10

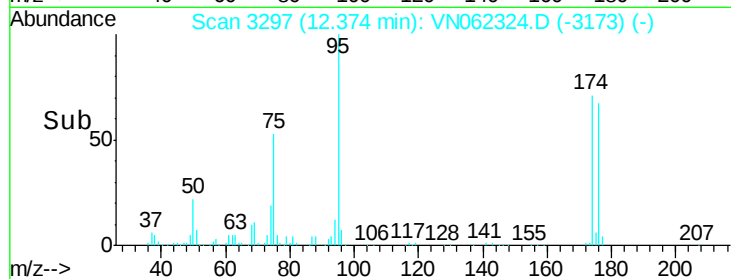
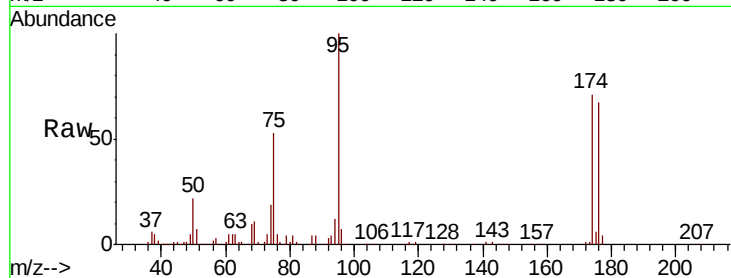
Tot Ion: 75 Resp: 91487

Ion Ratio Lower Upper

75 100

53 0.2 72.0 108.0#

89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

