

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073020\
 Data File : VN062666.D
 Acq On : 30 Jul 2020 13:04
 Operator : JC/MD
 Sample : PB130598ZHE#19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130598ZHE#19

Quant Time: Jul 31 04:08:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	135009	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	239023	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	247803	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	85607	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	115461	55.05	ug/l	0.00
Spiked Amount			Recovery	=	110.10%	
35) Dibromofluoromethane	7.55	113	81014	51.60	ug/l	0.00
Spiked Amount			Recovery	=	103.20%	
50) Toluene-d8	10.06	98	323336	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
62) 4-Bromofluorobenzene	12.38	95	112258	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.38	74	678	0.652	ug/l #	38
16) Acetone	3.78	43	14997	19.002	ug/l	92
18) Methyl Acetate	4.29	43	3421	1.712	ug/l #	71
20) Methylene Chloride	4.51	84	17661	9.330	ug/l	93
25) 2-Butanone	6.80	43	902	0.750	ug/l	93
29) Tetrahydrofuran	7.17	42	213	0.262	ug/l #	38
31) Cyclohexane	7.62	56	3518	1.138	ug/l #	24
36) 1,1-Dichloropropene	7.62	75	11792	4.628	ug/l #	50
37) Ethyl Acetate	6.80	43	902	0.328	ug/l #	69
38) Carbon Tetrachloride	7.63	117	13716	5.601	ug/l #	16
43) Isopropyl Acetate	8.13	43	46357	10.471	ug/l #	92
45) 1,2-Dichloropropane	9.23	63	658	0.304	ug/l #	44
48) Methyl methacrylate	9.15	41	3108	1.477	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	5928	2.238	ug/l	94
54) cis-1,3-Dichloropropene	9.88	75	19067	5.886	ug/l #	65
56) Ethyl methacrylate	10.51	69	1032	2.088	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3519	1.106	ug/l #	42
59) 2-Hexanone	10.74	43	51832	27.960	ug/l #	55
74) N-amyl acetate	12.01	43	1893	0.626	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	62671	28.761	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2020	0.360	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.38	75	62671	80.065	ug/l #	12
95) Naphthalene	15.10	128	100	3.786	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062666.D

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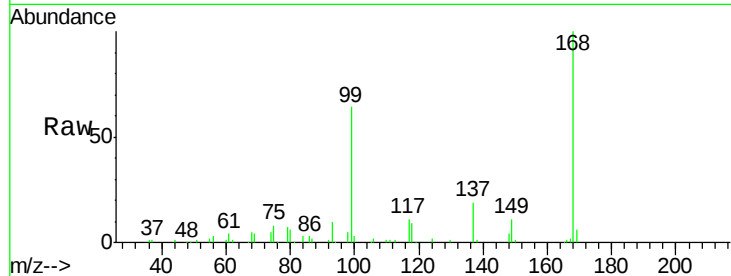
PB130598ZHE#19

Tot Ion:168 Resp: 135009

Ion Ratio Lower Upper

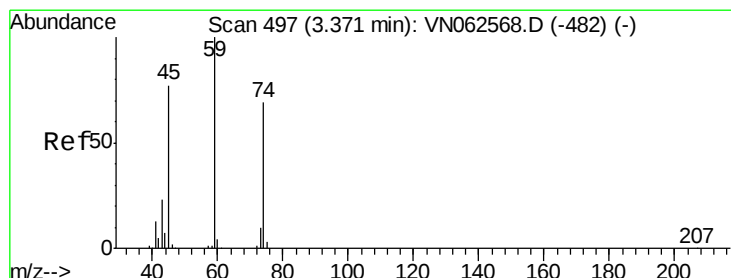
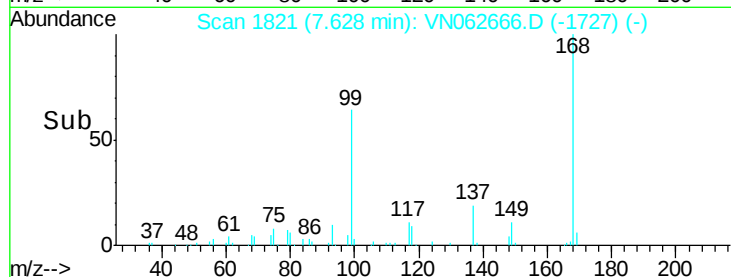
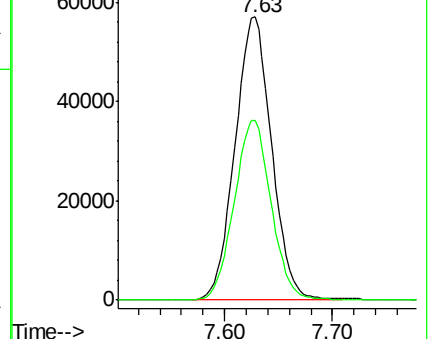
168 100

99 63.5 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#8

Diethyl Ether

Concen: 0.652 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.01 min

Lab File: VN062666.D

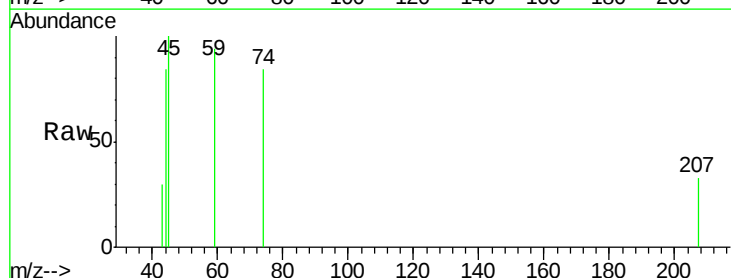
Acq: 30 Jul 2020 13:04

Tgt Ion: 74 Resp: 678

Ion Ratio Lower Upper

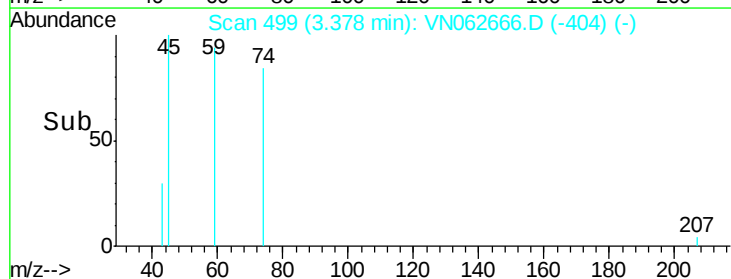
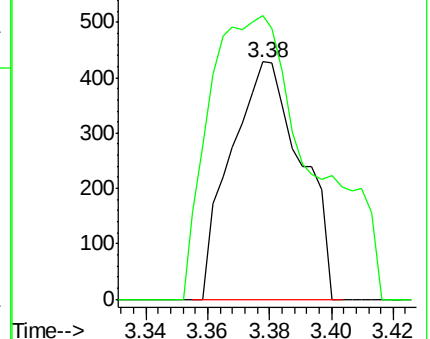
74 100

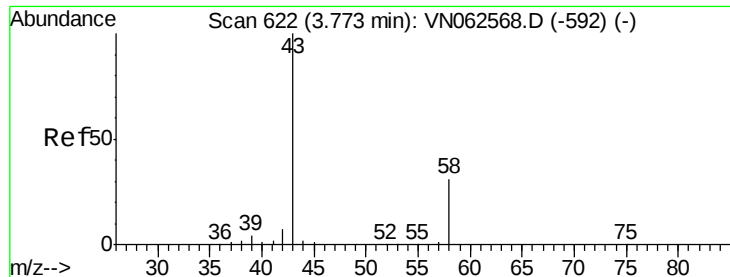
45 175.7 55.3 165.8#



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0





#16

Acetone

Concen: 19.002 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062666.D

Acq: 30 Jul 2020 13:04

Instrument :

MSVOA_N

ClientSampleId :

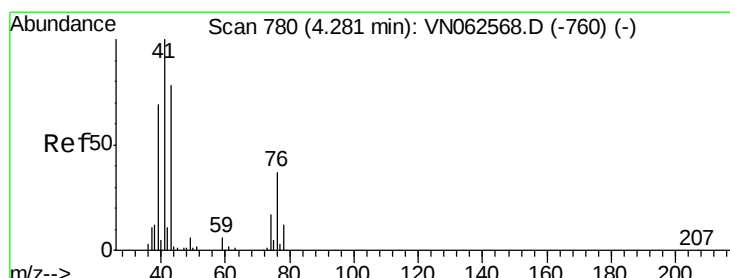
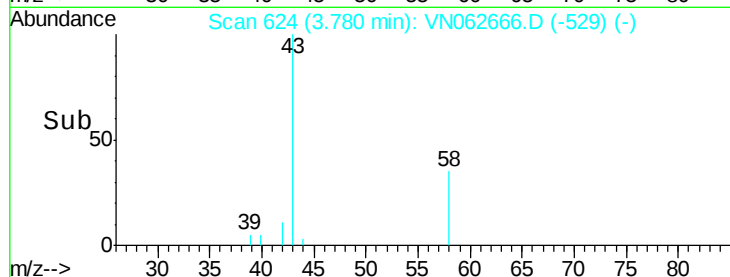
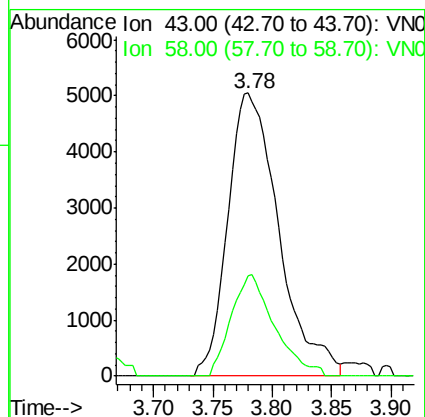
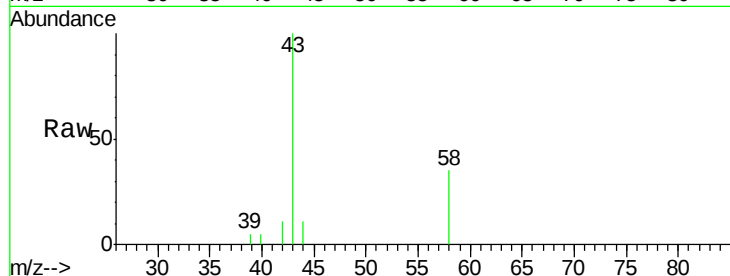
PB130598ZHE#19

Tot Ion: 43 Resp: 14997

Ion Ratio Lower Upper

43 100

58 35.4 24.6 37.0



#18

Methyl Acetate

Concen: 1.712 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.01 min

Lab File: VN062666.D

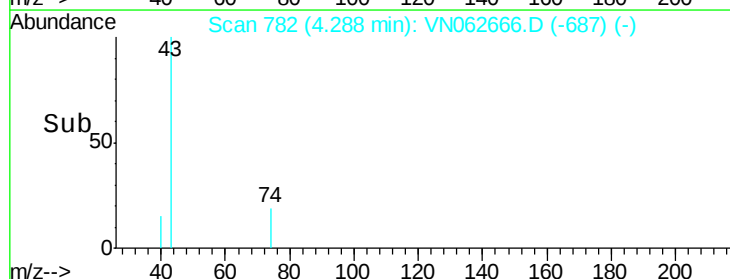
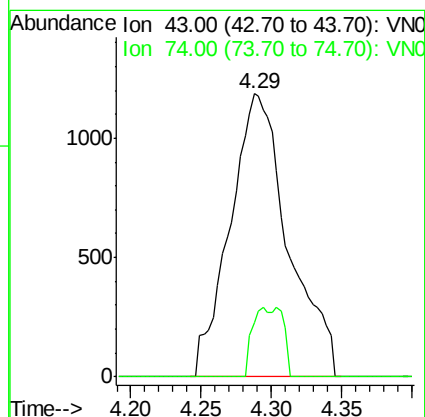
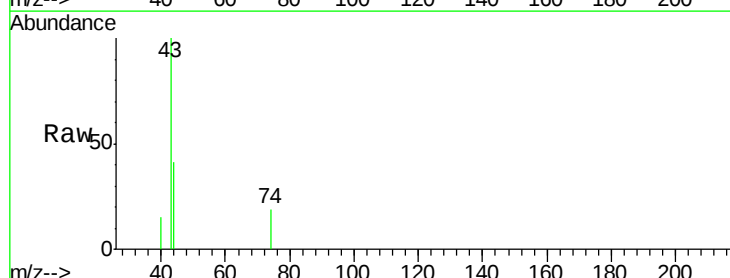
Acq: 30 Jul 2020 13:04

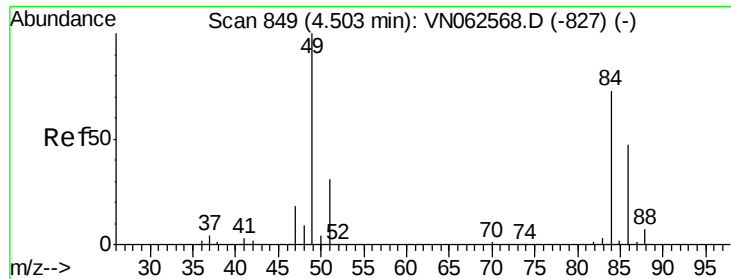
Tgt Ion: 43 Resp: 3421

Ion Ratio Lower Upper

43 100

74 7.0 16.6 24.8#

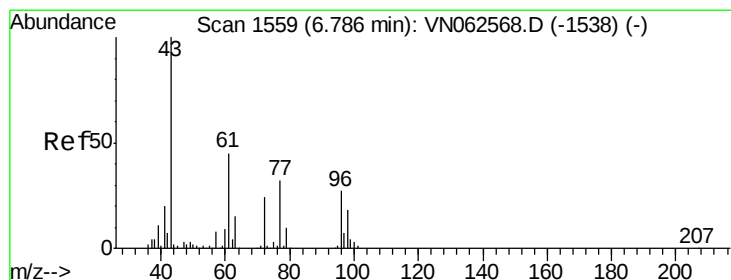
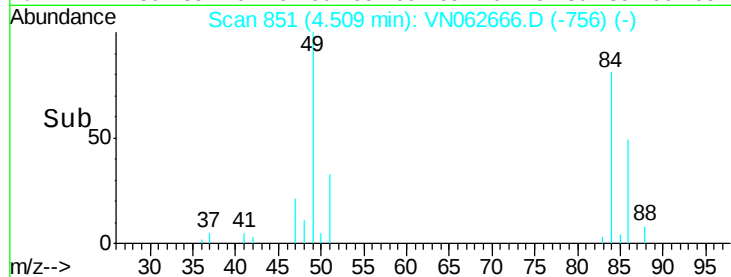
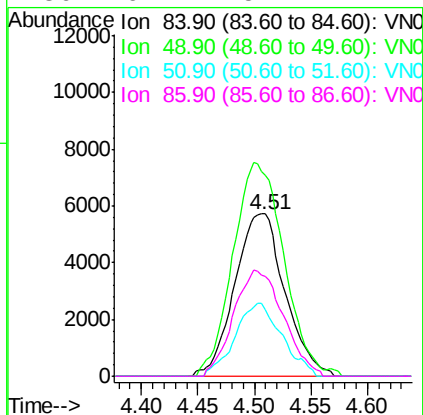
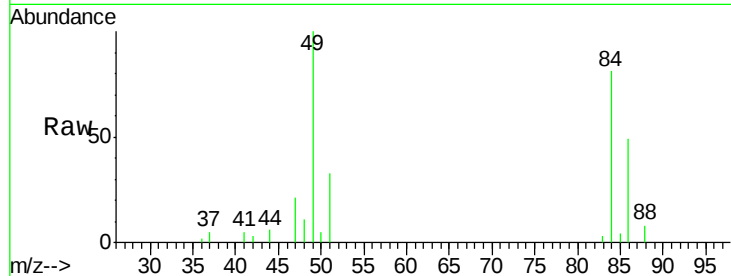




#20
Methvlene Chloride
Concen: 9.330 ug/l
RT: 4.51 min Scan# 851
Delta R.T. 0.01 min
Lab File: VN062666.D
Acq: 30 Jul 2020 13:04

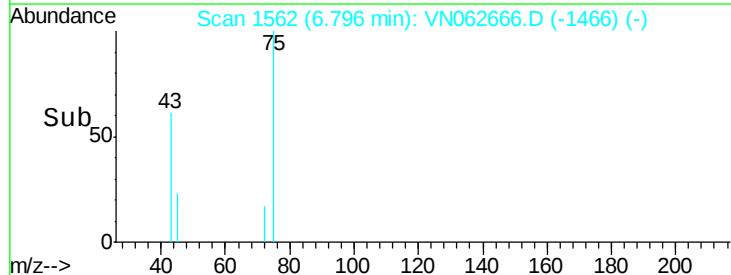
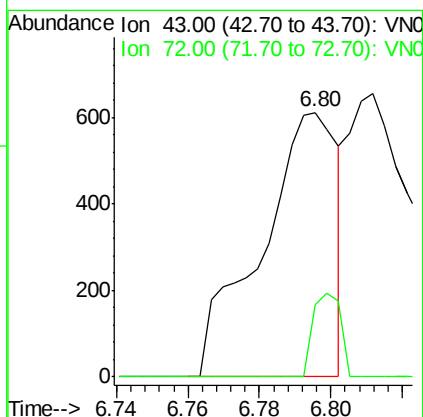
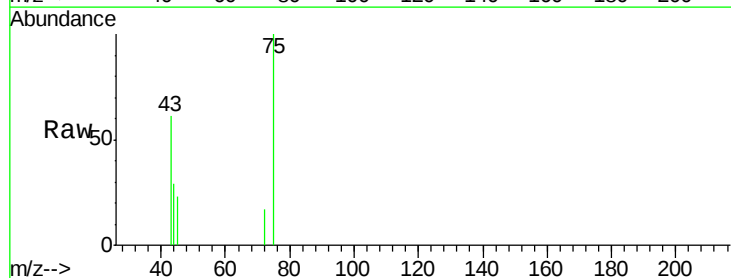
Instrument :
MSVOA_N
ClientSampleId :
PB130598ZHE#19

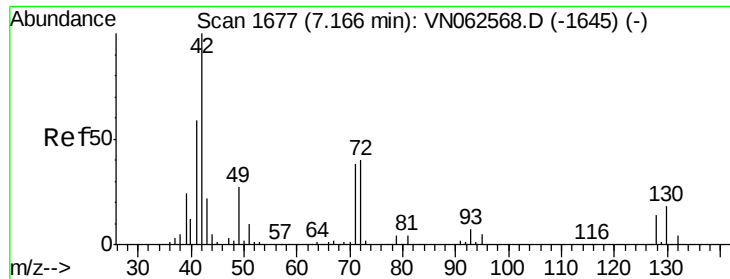
Tot Ion: 84 Resp: 17661
Ion Ratio Lower Upper
84 100
49 123.6 109.4 164.0
51 41.3 33.6 50.4
86 61.2 51.4 77.2



#25
2-Butanone
Concen: 0.750 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062666.D
Acq: 30 Jul 2020 13:04

Tgt Ion: 43 Resp: 902
Ion Ratio Lower Upper
43 100
72 27.1 19.0 28.6





#29

Tetrahydrofuran

Concen: 0.262 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.01 min

Lab File: VN062666.D

Acq: 30 Jul 2020 13:04

Instrument :

MSVOA_N

ClientSampleId :

PB130598ZHE#19

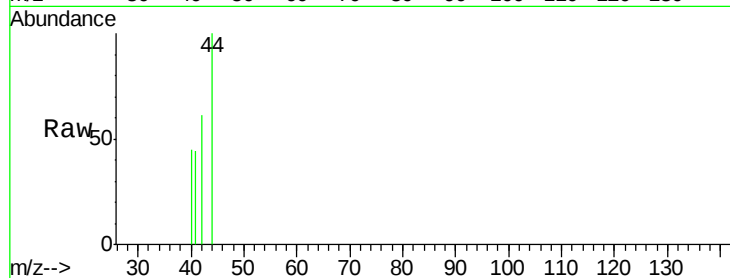
Tot Ion: 42 Resp: 213

Ion Ratio Lower Upper

42 100

72 0.0 30.7 46.1#

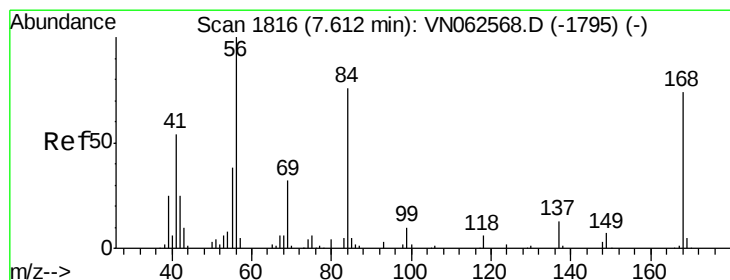
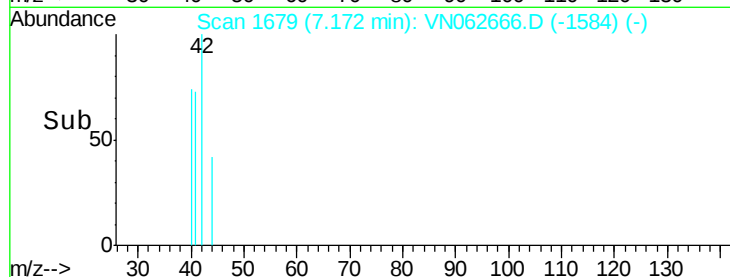
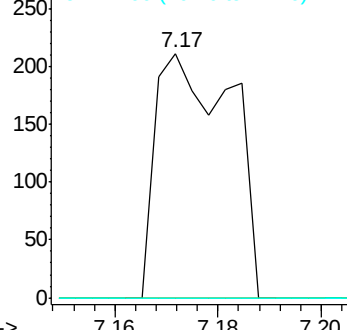
71 0.0 29.1 43.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.138 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062666.D

Acq: 30 Jul 2020 13:04

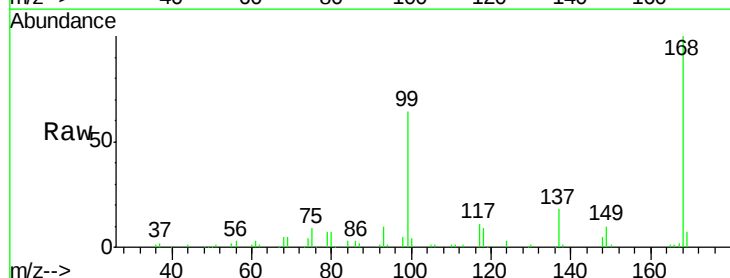
Tgt Ion: 56 Resp: 3518

Ion Ratio Lower Upper

56 100

69 156.3 25.3 37.9#

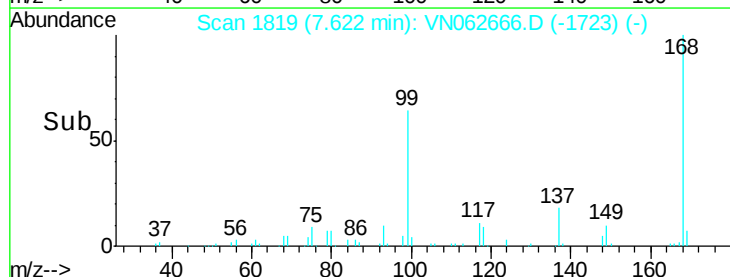
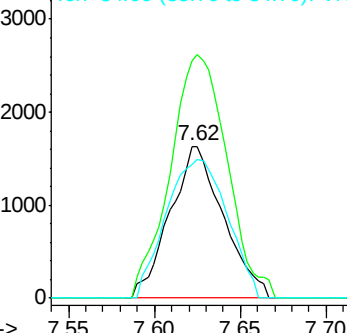
84 88.6 61.0 91.4

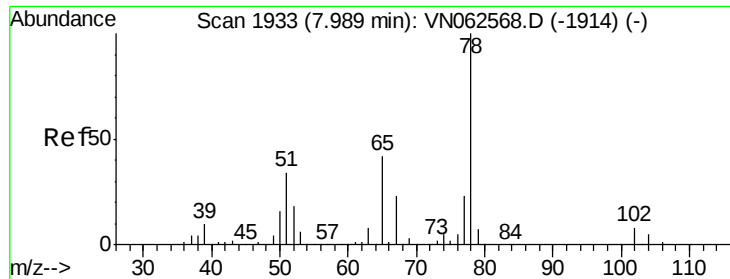


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

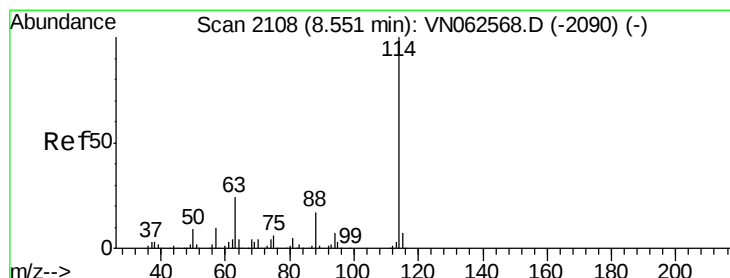
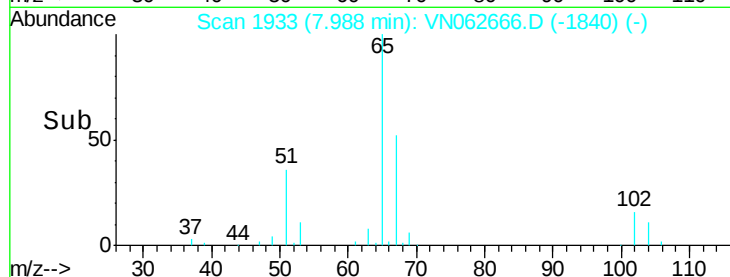
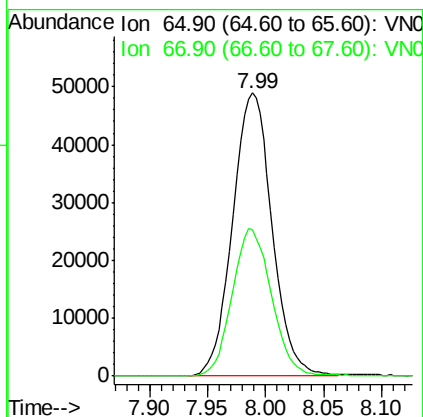
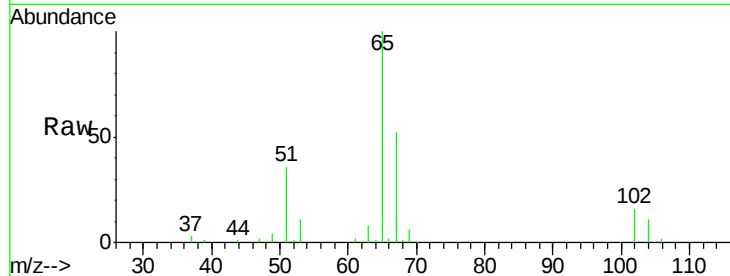




#33
 1,2-Dichloroethane-d4
 Concen: 55.052 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN062666.D
 Acq: 30 Jul 2020 13:04

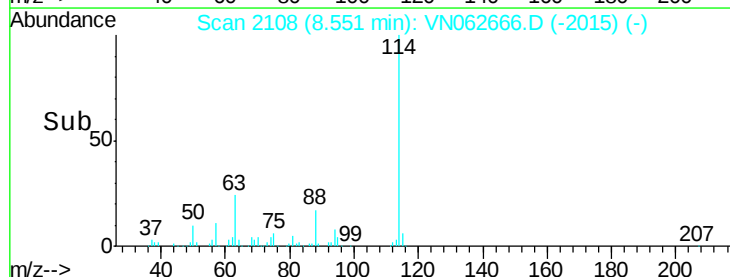
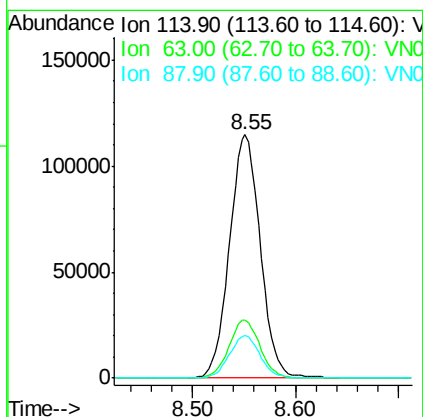
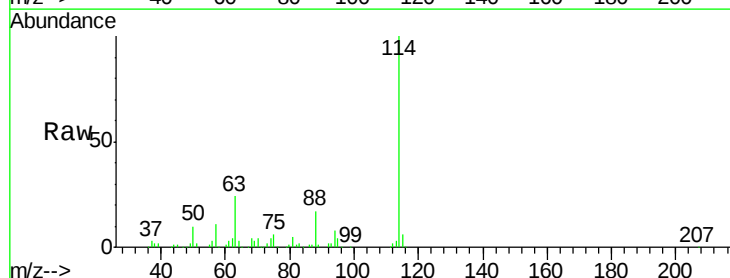
Instrument :
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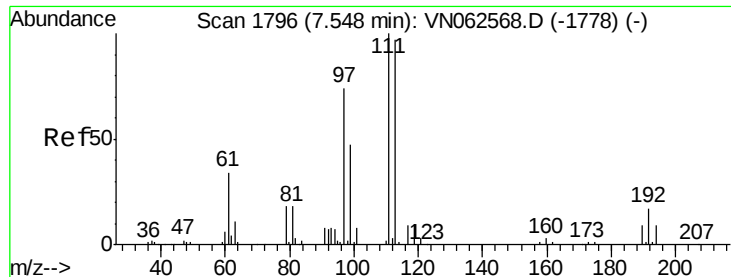
Tot Ion: 65 Resp: 115461
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 106.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062666.D
 Acq: 30 Jul 2020 13:04

Tgt Ion: 114 Resp: 239023
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 48.4
 88 17.4 0.0 33.8

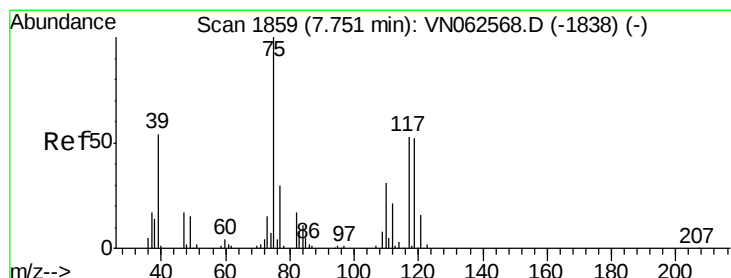
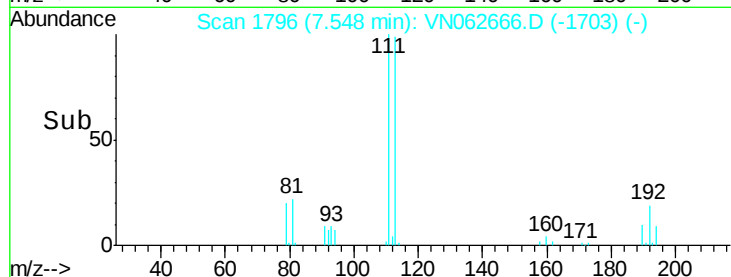
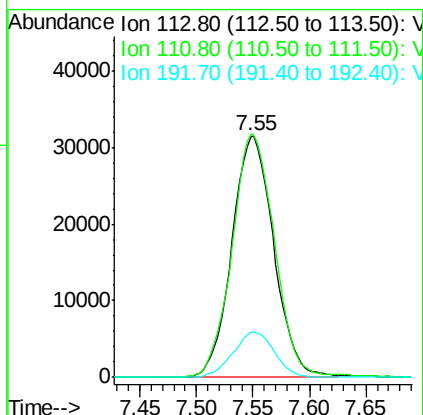
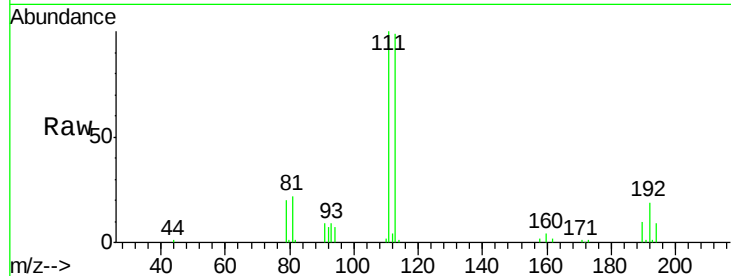




#35
 Dibromofluoromethane
 Concen: 51.600 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062666.D
 Acq: 30 Jul 2020 13:04

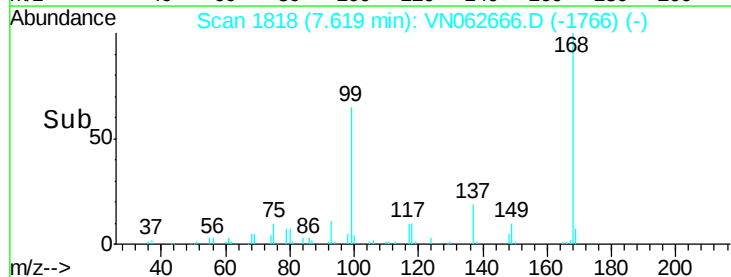
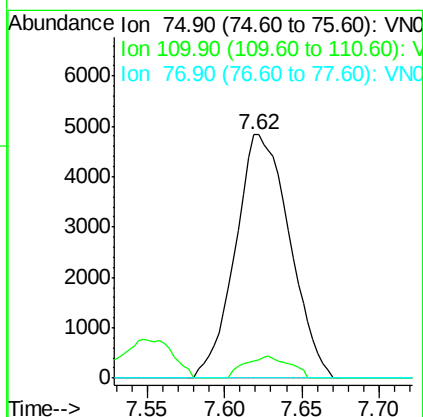
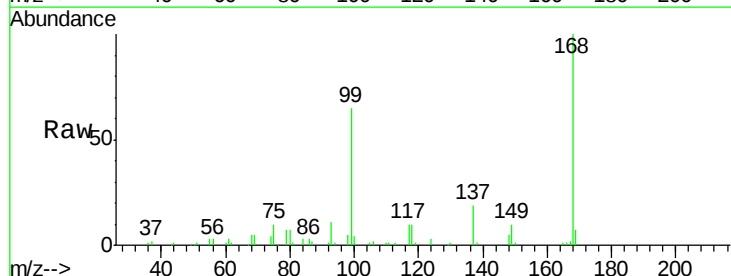
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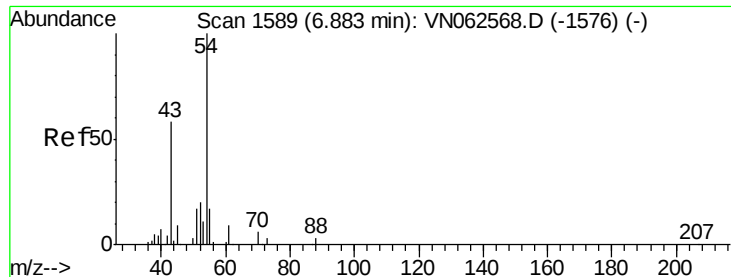
Tot Ion:113 Resp: 81014
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.7 124.1
 192 18.6 14.8 22.2



#36
 1,1-Dichloropropene
 Concen: 4.628 ug/l
 RT: 7.62 min Scan# 1818
 Delta R.T. -0.13 min
 Lab File: VN062666.D
 Acq: 30 Jul 2020 13:04

Tgt Ion: 75 Resp: 11792
 Ion Ratio Lower Upper
 75 100
 110 7.4 16.0 48.0#
 77 0.0 24.6 36.8#

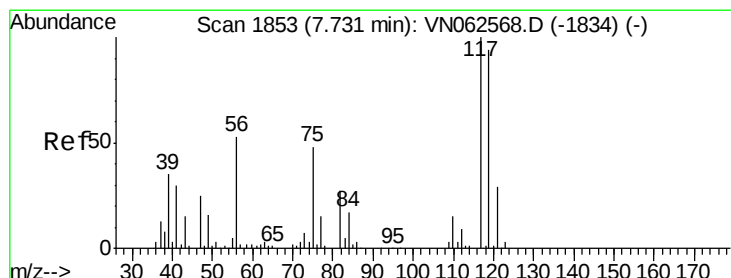
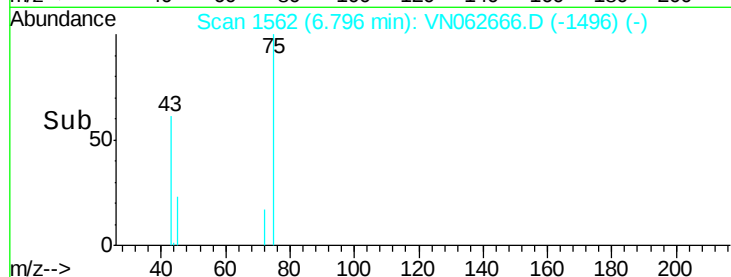
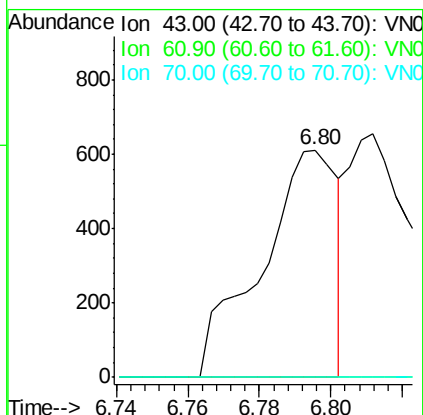
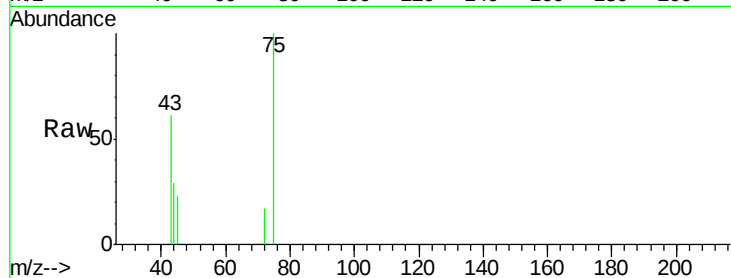




#37
Ethyl Acetate
Concen: 0.328 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.09 min
Lab File: VN062666.D
Acq: 30 Jul 2020 13:04

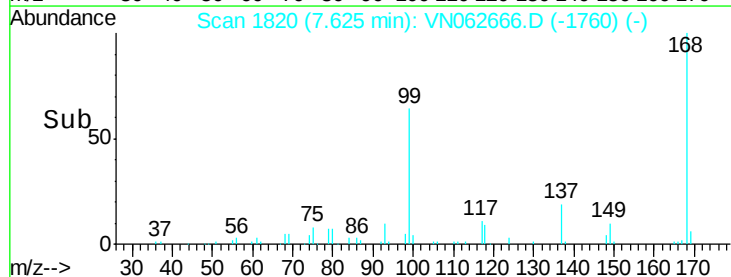
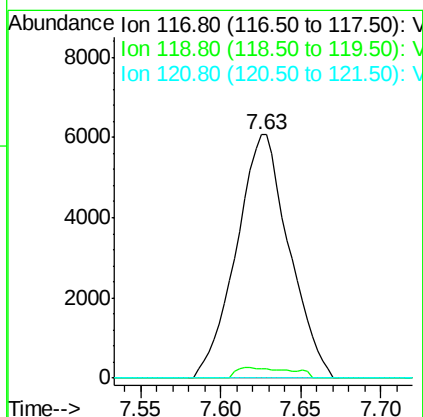
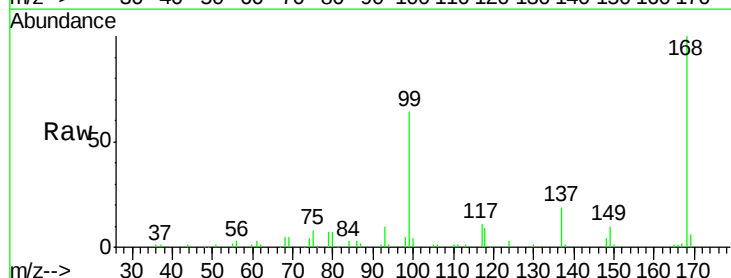
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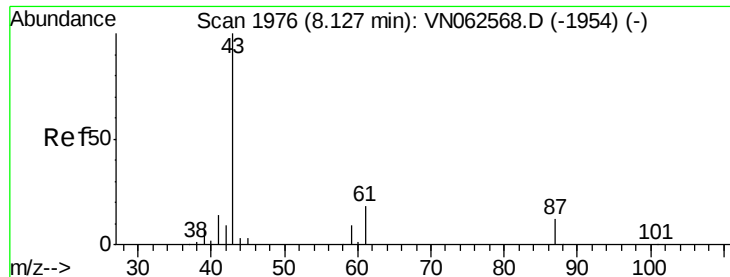
Tot Ion: 43 Resp: 902
Ion Ratio Lower Upper
43 100
61 0.0 11.3 16.9#
70 0.0 7.7 11.5#



#38
Carbon Tetrachloride
Concen: 5.601 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN062666.D
Acq: 30 Jul 2020 13:04

Tgt Ion: 117 Resp: 13716
Ion Ratio Lower Upper
117 100
119 3.9 74.8 112.2#
121 0.0 23.0 34.6#





#43

Isopropyl Acetate

Concen: 10.471 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062666.D

Acq: 30 Jul 2020 13:04

Instrument :

MSVOA_N

ClientSampleId :

PB130598ZHE#19

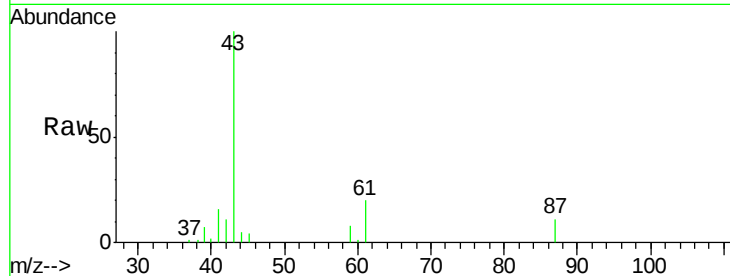
Tot Ion: 43 Resp: 46357

Ion Ratio Lower Upper

43 100

61 19.9 20.8 31.2#

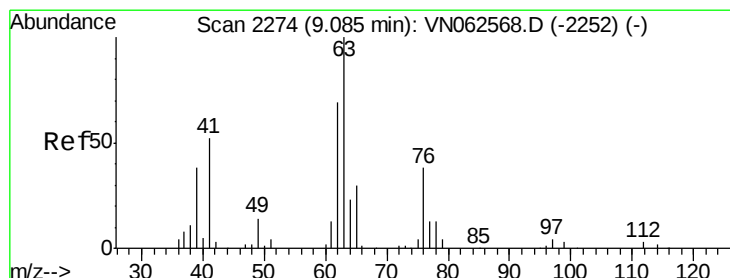
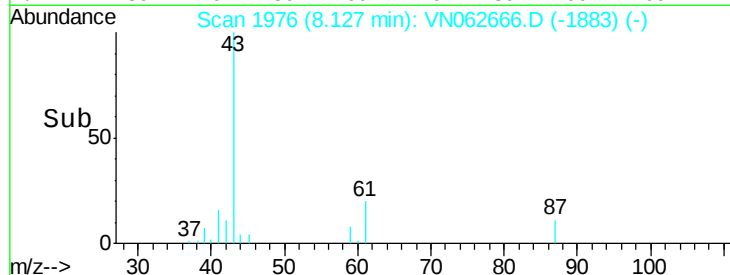
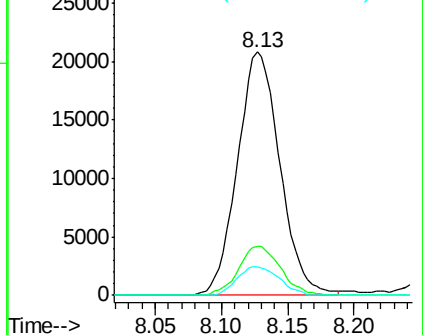
87 11.6 9.2 13.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.304 ug/l

RT: 9.23 min Scan# 2319

Delta R.T. 0.14 min

Lab File: VN062666.D

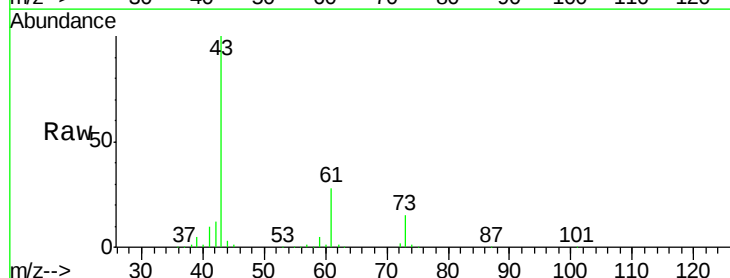
Acq: 30 Jul 2020 13:04

Tgt Ion: 63 Resp: 658

Ion Ratio Lower Upper

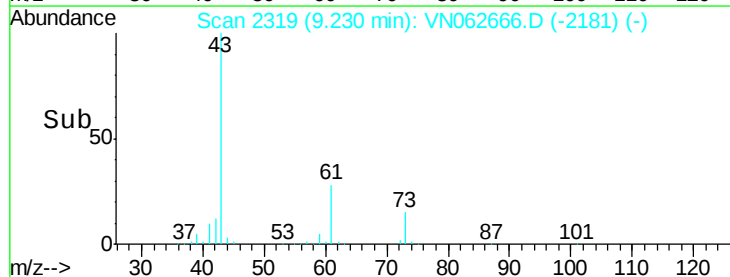
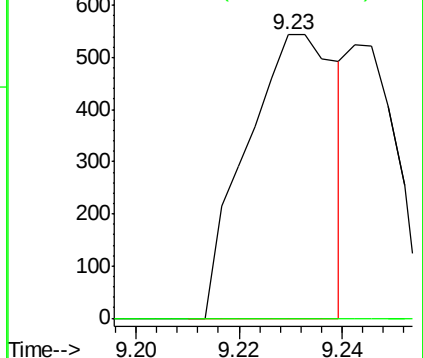
63 100

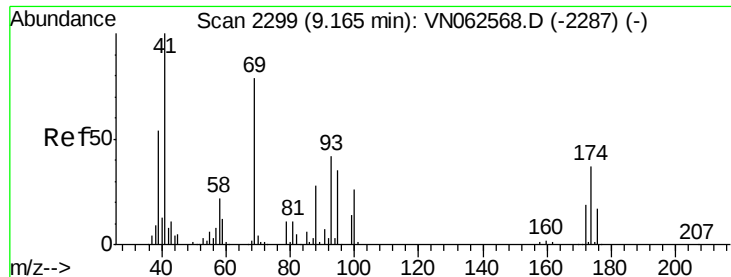
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

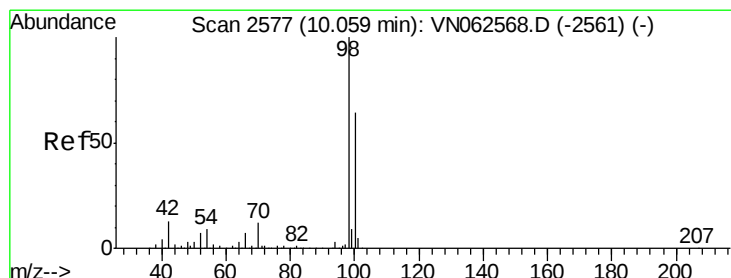
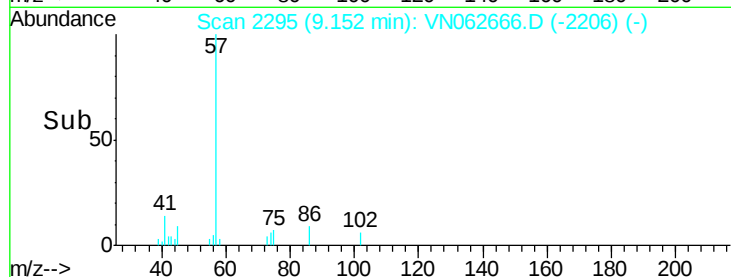
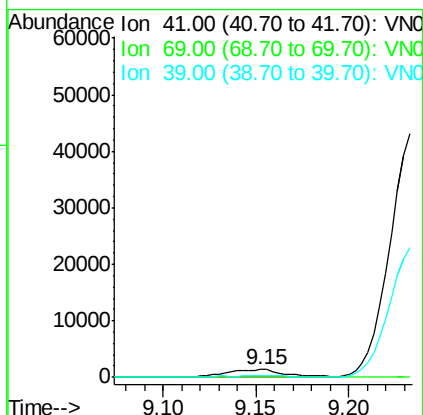
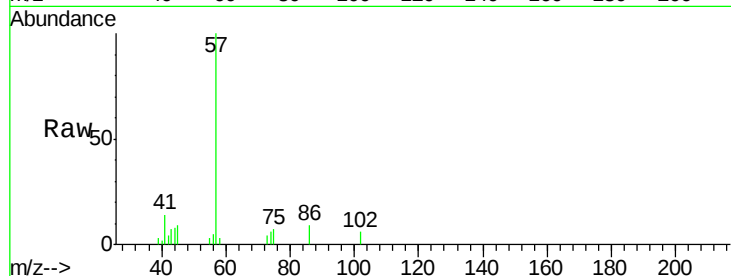




#48
Methvl methacrylate
Concen: 1.477 ug/l
RT: 9.15 min Scan# 2295
Delta R.T. -0.01 min
Lab File: VN062666.D
Acq: 30 Jul 2020 13:04

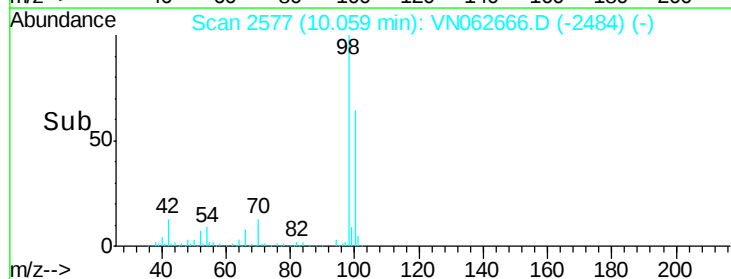
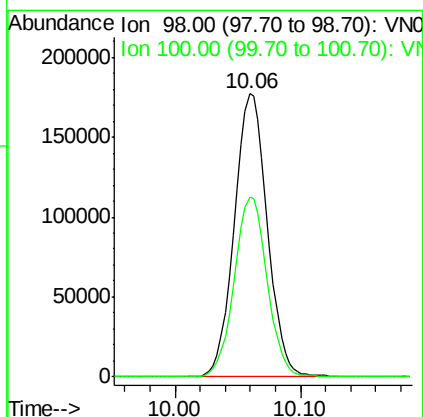
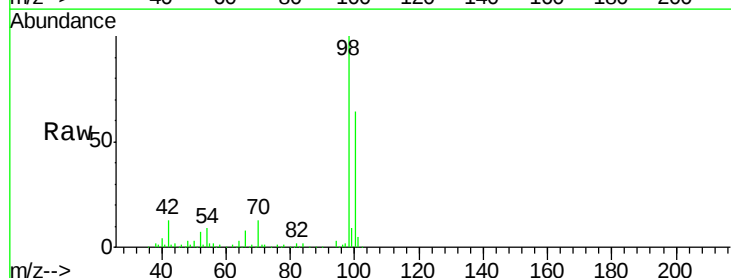
Instrument :
MSVOA_N
ClientSampleId :
PB130598ZHE#19

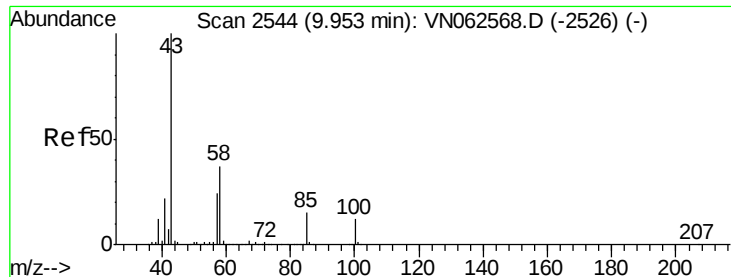
Tot Ion: 41 Resp: 3108
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 43.5 65.3#



#50
Toluene-d8
Concen: 51.615 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062666.D
Acq: 30 Jul 2020 13:04

Tgt Ion: 98 Resp: 323336
Ion Ratio Lower Upper
98 100
100 63.6 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 2.238 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN062666.D

Acq: 30 Jul 2020 13:04

Instrument :

MSVOA_N

ClientSampleId :

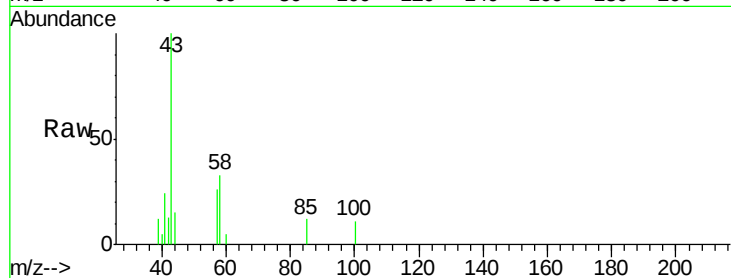
PB130598ZHE#19

Tot Ion: 43 Resp: 5928

Ion Ratio Lower Upper

43 100

58 33.9 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN062568.D (-2526) (-)

Ion 58.00 (57.70 to 58.70): VN062568.D (-2526) (-)

12000

10000

8000

6000

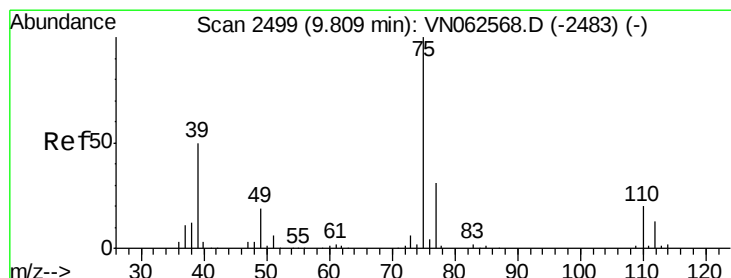
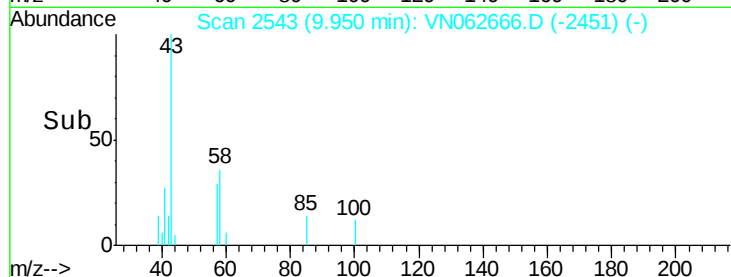
4000

2000

0

9.90 9.95 10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.886 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062666.D

Acq: 30 Jul 2020 13:04

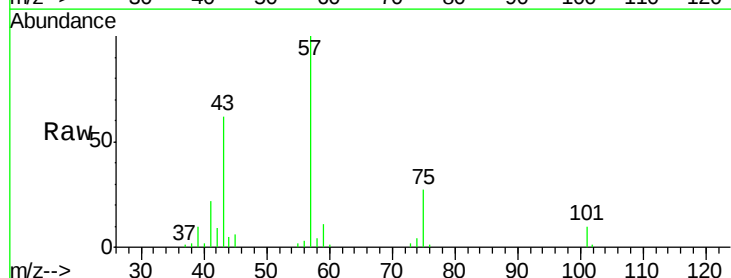
Tgt Ion: 75 Resp: 19067

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 35.3 39.8 59.8#



Abundance Ion 74.90 (74.60 to 75.60): VN062568.D (-2483) (-)

Ion 76.90 (76.60 to 77.60): VN062568.D (-2483) (-)

Ion 39.00 (38.70 to 39.70): VN062568.D (-2483) (-)

15000

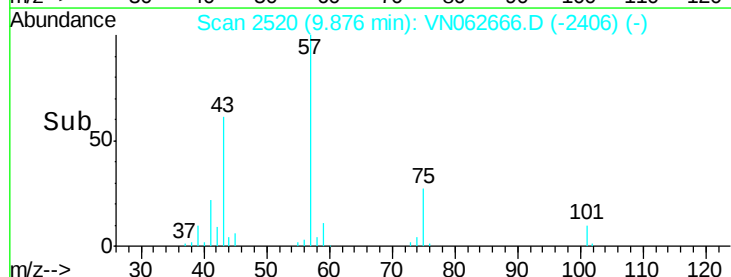
10000

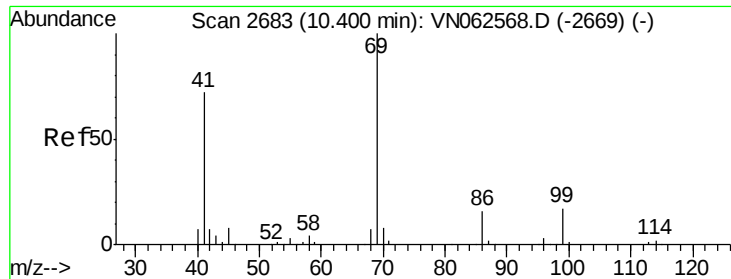
5000

0

9.80 9.85 9.90 9.95

Time-->





#56

Ethyl methacrylate

Concen: 2.088 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN062666.D

Acq: 30 Jul 2020 13:04

Instrument :

MSVOA_N

ClientSampleId :

PB130598ZHE#19

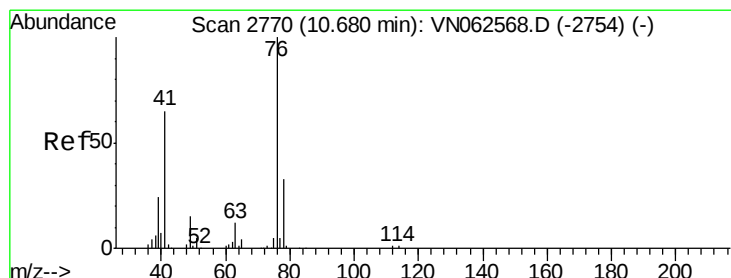
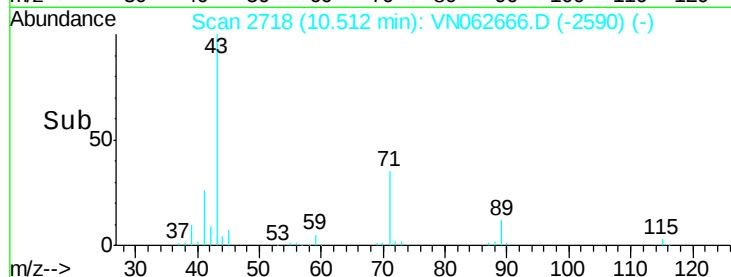
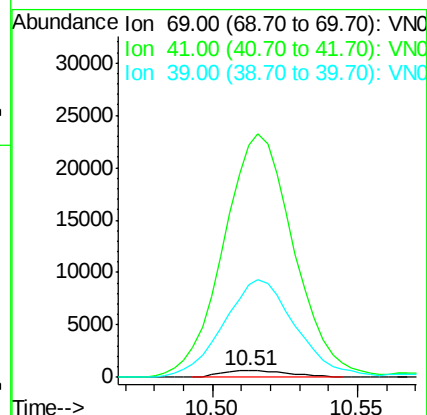
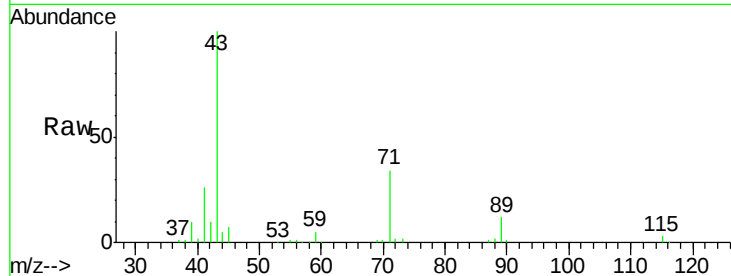
Tot Ion: 69 Resp: 1032

Ion Ratio Lower Upper

69 100

41 3796.5 57.2 85.8#

39 1559.4 28.6 43.0#



#57

1,3-Dichloropropane

Concen: 1.106 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062666.D

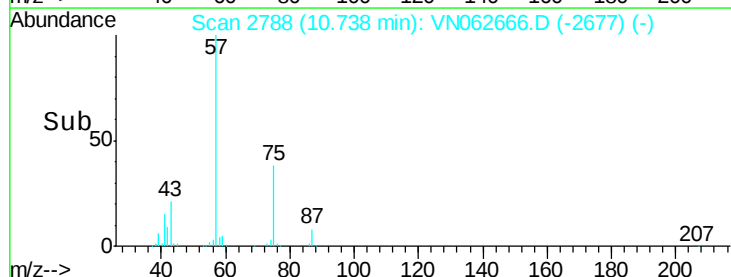
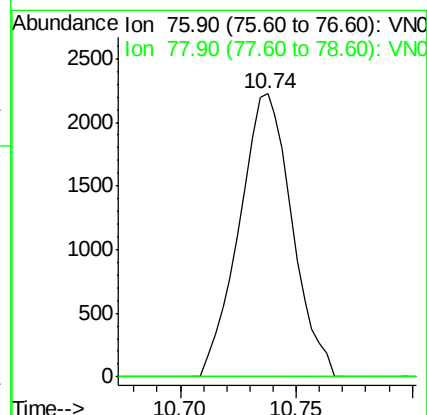
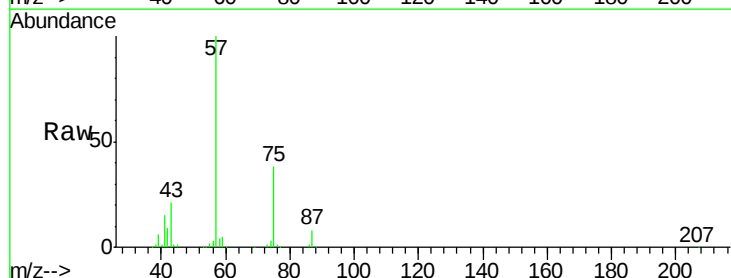
Acq: 30 Jul 2020 13:04

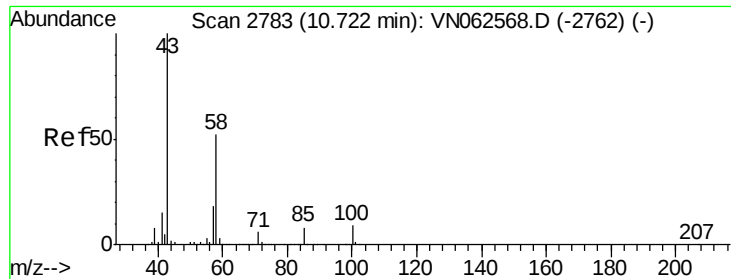
Tgt Ion: 76 Resp: 3519

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#





#59

2-Hexanone

Concen: 27.960 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062666.D

Acq: 30 Jul 2020 13:04

Instrument :

MSVOA_N

ClientSampleId :

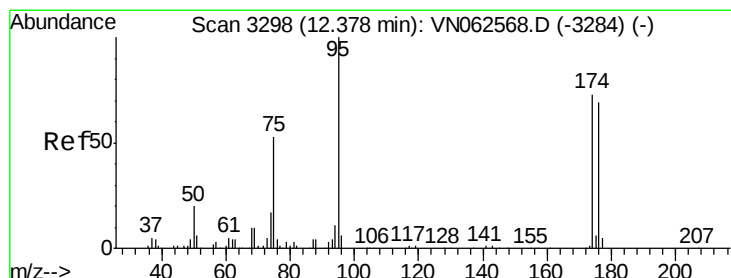
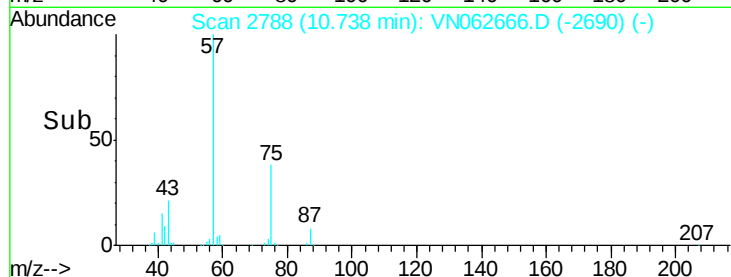
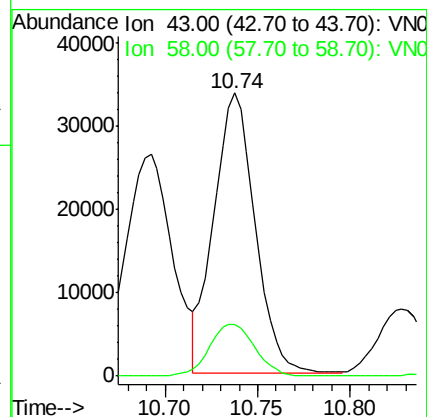
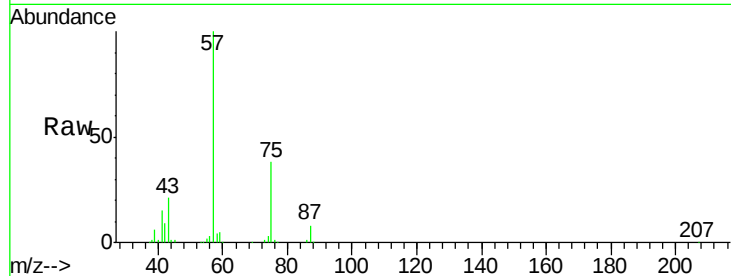
PB130598ZHE#19

Tot Ion: 43 Resp: 51832

Ion Ratio Lower Upper

43 100

58 20.3 26.0 78.0#



#62

4-Bromofluorobenzene

Concen: 49.010 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062666.D

Acq: 30 Jul 2020 13:04

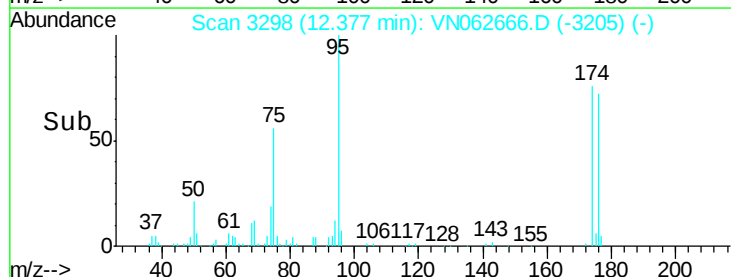
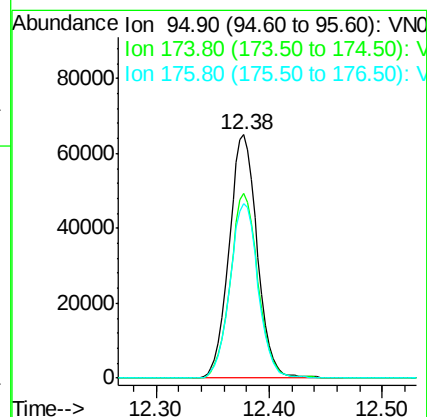
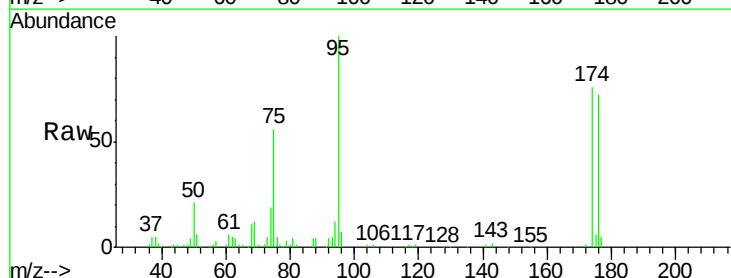
Tgt Ion: 95 Resp: 112258

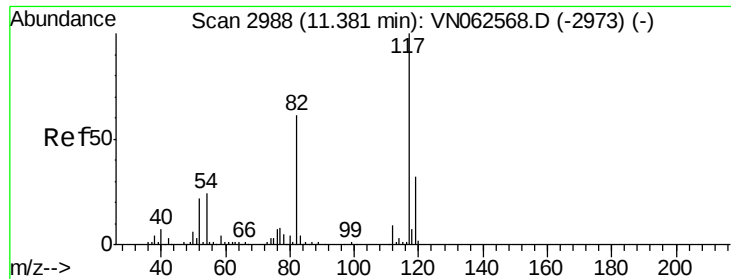
Ion Ratio Lower Upper

95 100

174 75.0 0.0 144.6

176 72.0 0.0 139.4

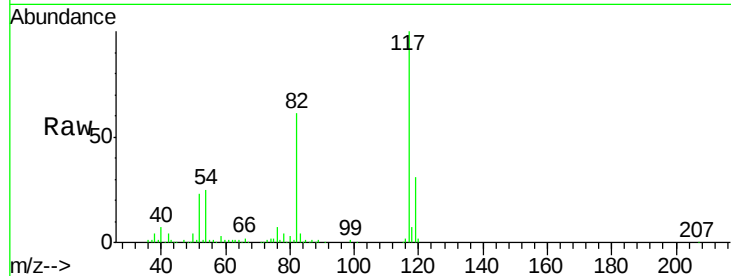




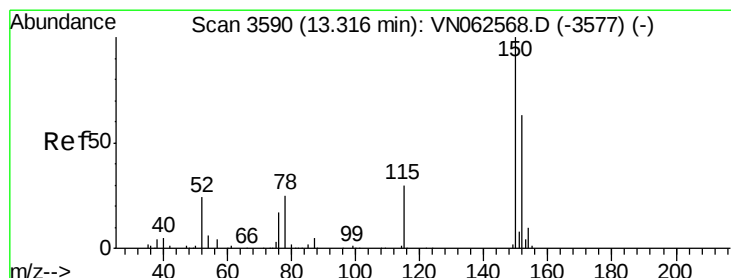
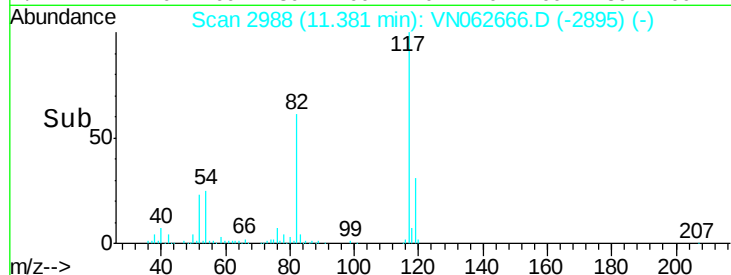
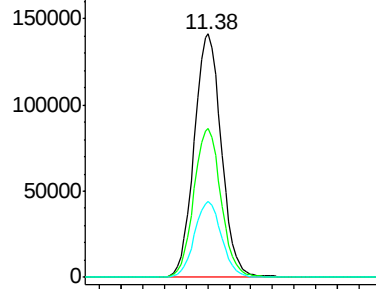
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062666.D
Acq: 30 Jul 2020 13:04

Instrument :
MSVOA_N
ClientSampleId :
PB130598ZHE#19

Tot Ion:117 Resp: 247803
Ion Ratio Lower Upper
117 100
82 61.0 49.0 73.6
119 30.9 25.4 38.2

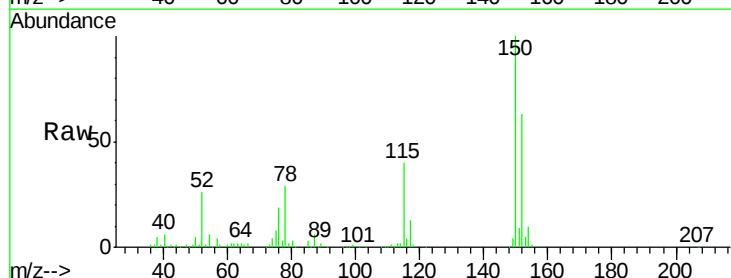


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

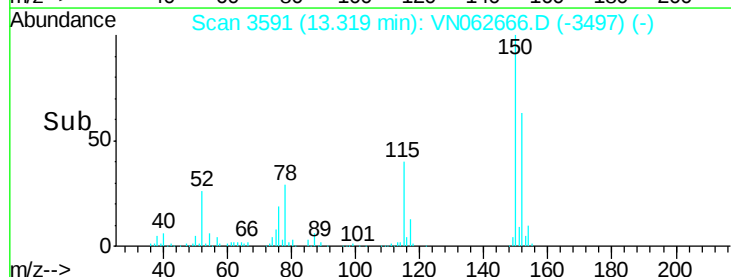
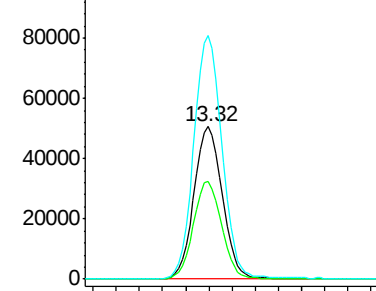


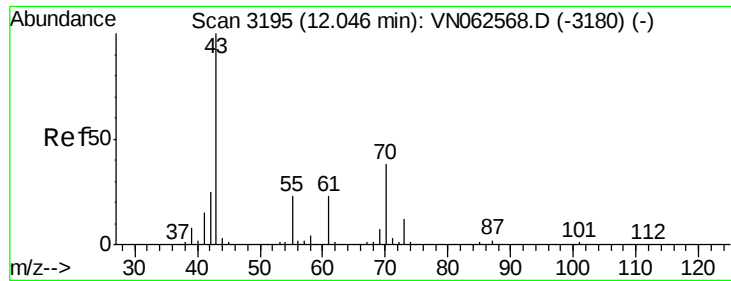
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062666.D
Acq: 30 Jul 2020 13:04

Tgt Ion:152 Resp: 85607
Ion Ratio Lower Upper
152 100
115 63.7 31.8 95.4
150 158.9 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: 0.626 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062666.D

Acq: 30 Jul 2020 13:04

Instrument :

MSVOA_N

ClientSampleId :

PB130598ZHE#19

Tot Ion: 43 Resp: 1893

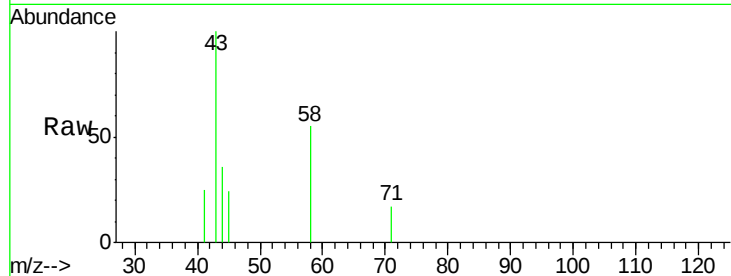
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 0.0 19.0 28.6#

61 0.0 18.4 27.6#

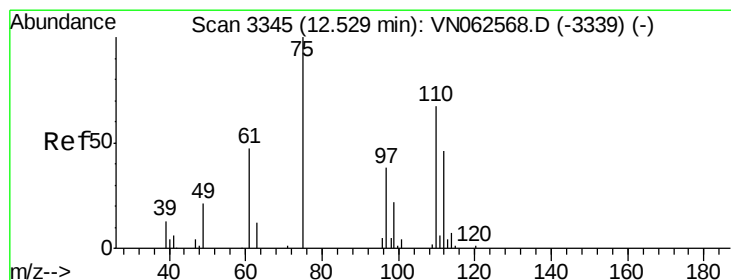
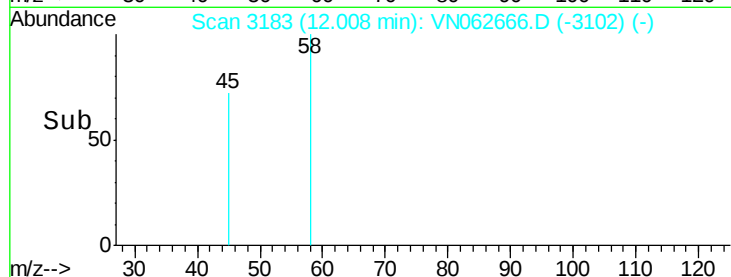
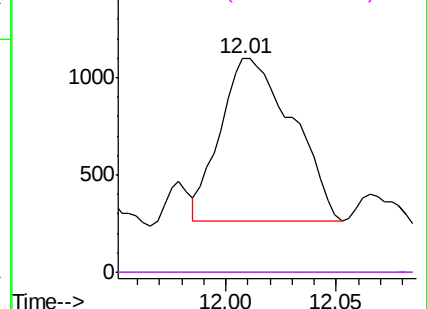


Abundance Ion 43.00 (42.70 to 43.70): VN0

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



#76

1,2,3-Trichloropropane

Concen: 28.761 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062666.D

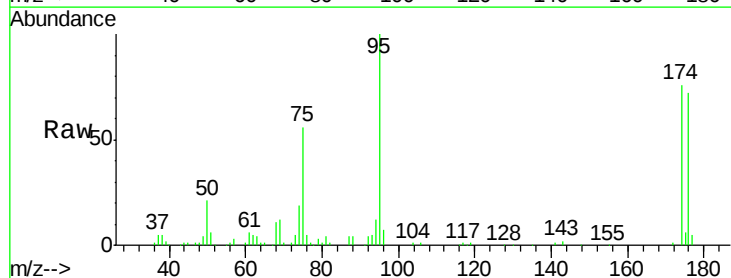
Acq: 30 Jul 2020 13:04

Tgt Ion: 75 Resp: 62671

Ion Ratio Lower Upper

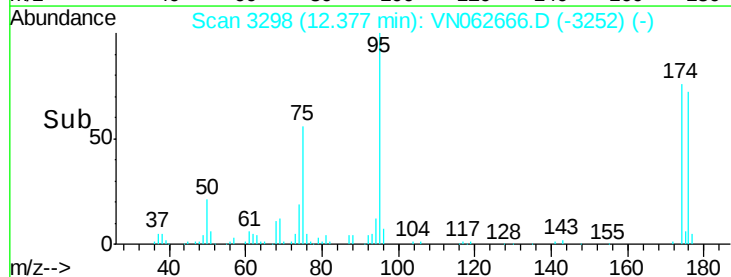
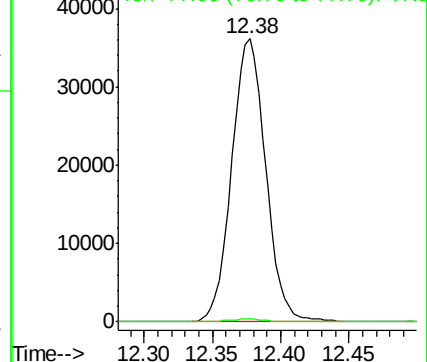
75 100

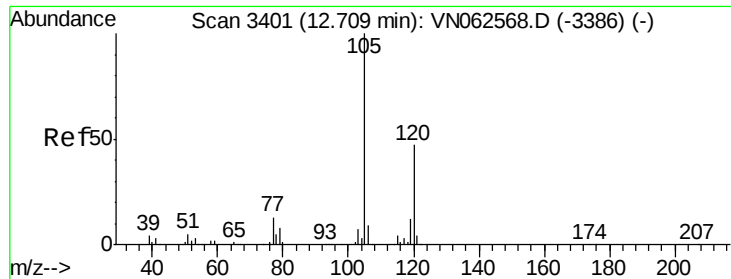
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

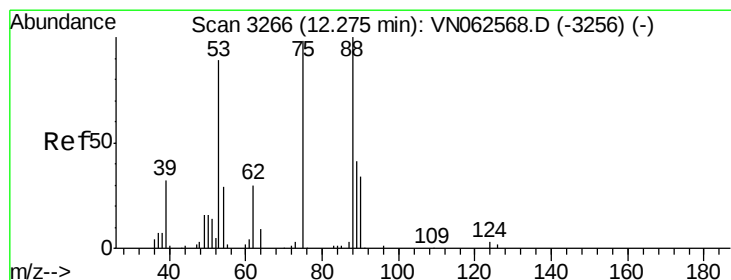
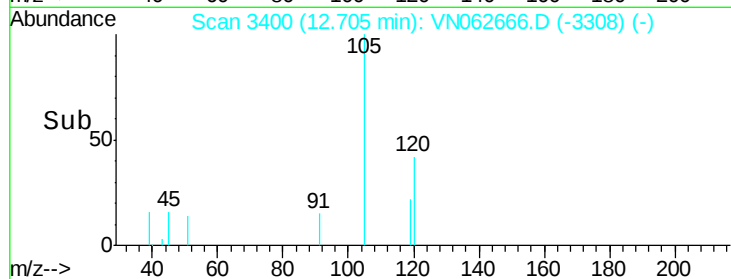
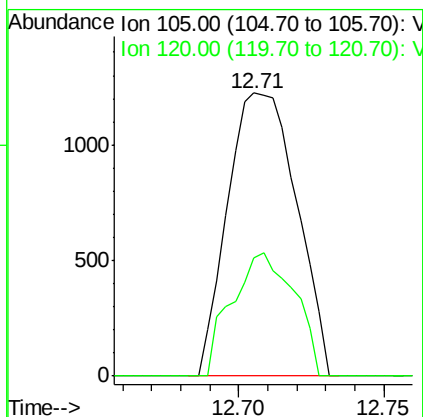
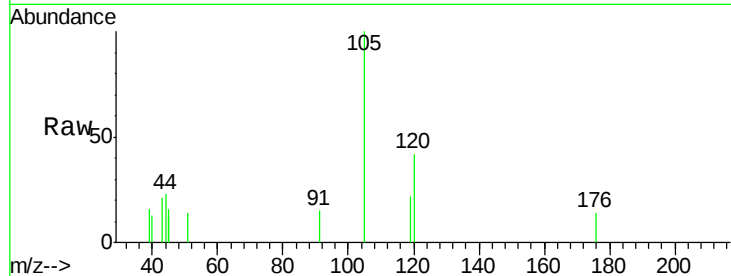




#80
 1,3,5-Trimethylbenzene
 Concen: 0.360 ug/l
 RT: 12.71 min Scan# 3400
 Delta R.T. -0.00 min
 Lab File: VN062666.D
 Acq: 30 Jul 2020 13:04

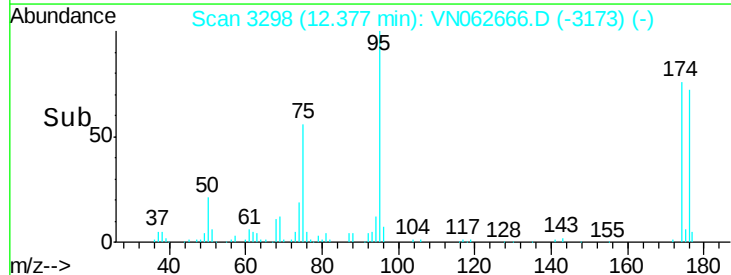
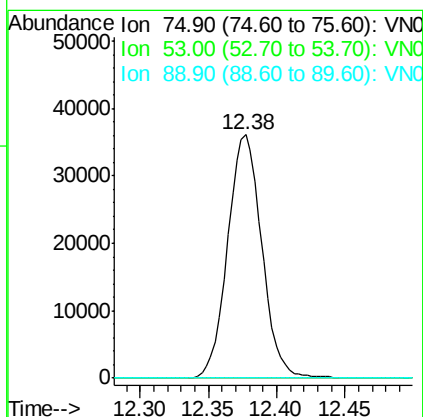
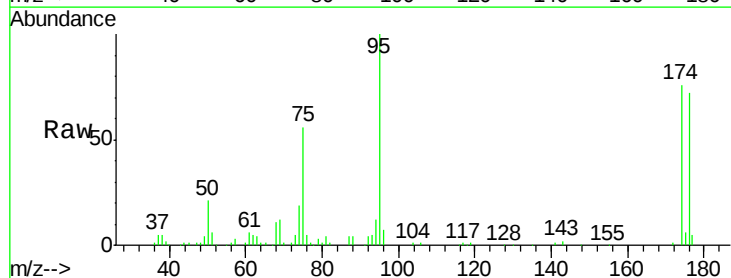
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130598ZHE#19

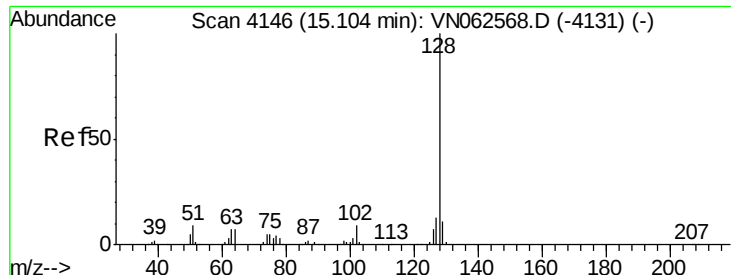
Tot Ion:105 Resp: 2020
 Ion Ratio Lower Upper
 105 100
 120 39.5 23.2 69.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.065 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062666.D
 Acq: 30 Jul 2020 13:04

Tgt Ion: 75 Resp: 62671
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 34.5 51.7#





#95

Naphthalene

Concen: 3.786 ug/l

RT: 15.10 min Scan# 4146

Delta R.T. -0.00 min

Lab File: VN062666.D

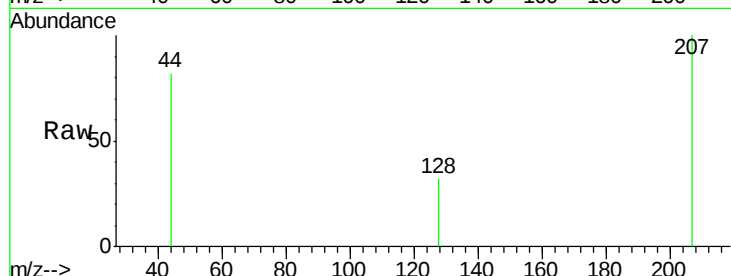
Acq: 30 Jul 2020 13:04

Instrument :

MSVOA_N

ClientSampleId :

PB130598ZHE#19



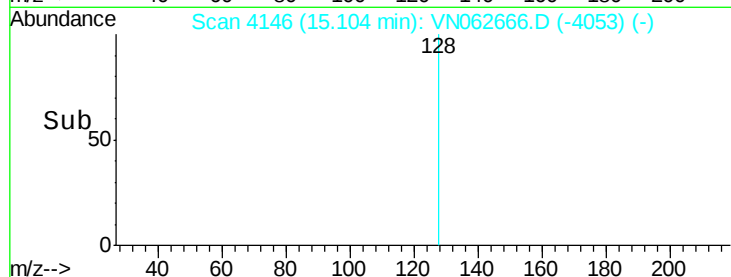
Tot Ion:128 Resp: 100

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



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

