

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073020\
 Data File : VN062664.D
 Acq On : 30 Jul 2020 12:16
 Operator : JC/MD
 Sample : PB130598ZHE#17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130598ZHE#17

Quant Time: Jul 31 04:06:55 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	142792	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	253120	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	262213	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	92430	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	121866	54.94	ug/l	0.00
Spiked Amount			Recovery	=	109.88%	
35) Dibromofluoromethane	7.55	113	86509	52.03	ug/l	0.00
Spiked Amount			Recovery	=	104.06%	
50) Toluene-d8	10.06	98	345277	52.05	ug/l	0.00
Spiked Amount			Recovery	=	104.10%	
62) 4-Bromofluorobenzene	12.38	95	123715	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.37	74	739	0.672	ug/l	66
11) Tert butyl alcohol	4.73	59	151	0.428	ug/l #	73
16) Acetone	3.78	43	15747	18.865	ug/l	98
18) Methyl Acetate	4.28	43	1512	0.716	ug/l #	78
20) Methylene Chloride	4.51	84	18161	9.071	ug/l	97
25) 2-Butanone	6.81	43	1993	1.568	ug/l #	52
29) Tetrahydrofuran	7.18	42	472	0.549	ug/l #	38
31) Cyclohexane	7.62	56	3414	1.045	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	12404	4.597	ug/l #	51
38) Carbon Tetrachloride	7.63	117	15172	5.850	ug/l #	17
43) Isopropyl Acetate	8.13	43	46998	10.024	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	850	0.371	ug/l #	44
48) Methyl methacrylate	9.14	41	2874	1.290	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	5878	2.095	ug/l	98
54) cis-1,3-Dichloropropene	9.88	75	18664	5.441	ug/l #	65
56) Ethyl methacrylate	10.52	69	939	2.043	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	3556	1.055	ug/l #	42
59) 2-Hexanone	10.74	43	53799	27.464	ug/l #	54
74) N-amyl acetate	12.01	43	1931	0.592	ug/l #	47
76) 1,2,3-Trichloropropane	12.38	75	68519	29.124	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2005	0.331	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	68519	81.074	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.89	180	105	3.167	ug/l #	1
95) Naphthalene	15.11	128	1056	3.999	ug/l #	73

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062664.D

Acq: 30 Jul 2020 12:16

Instrument :

MSVOA_N

ClientSampleId :

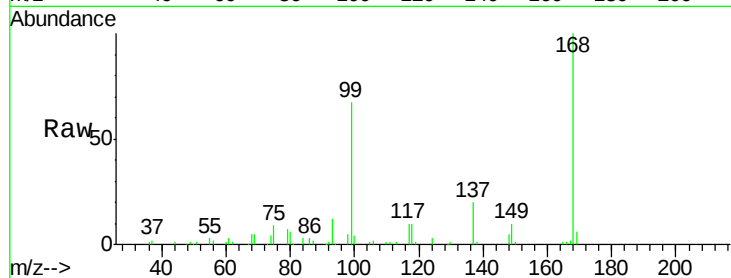
PB130598ZHE#17

Tot Ion:168 Resp: 142792

Ion Ratio Lower Upper

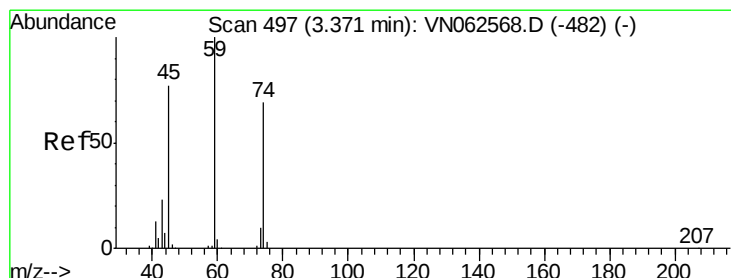
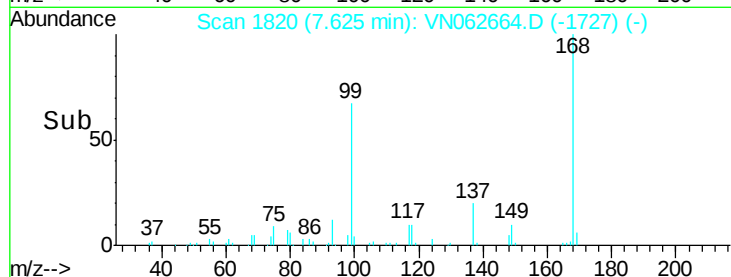
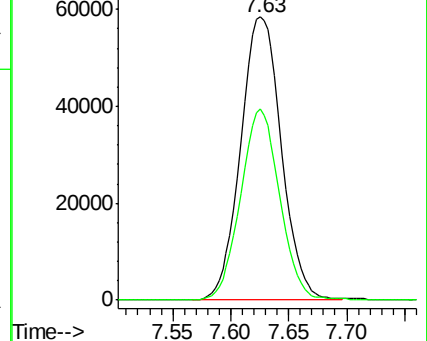
168 100

99 67.4 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#8

Diethyl Ether

Concen: 0.672 ug/l

RT: 3.37 min Scan# 497

Delta R.T. -0.00 min

Lab File: VN062664.D

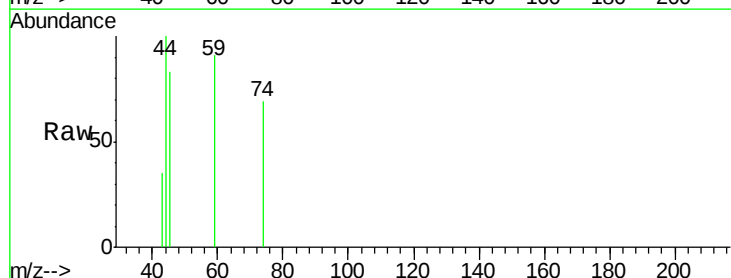
Acq: 30 Jul 2020 12:16

Tgt Ion: 74 Resp: 739

Ion Ratio Lower Upper

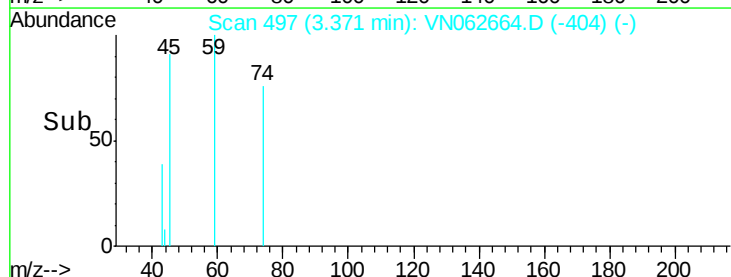
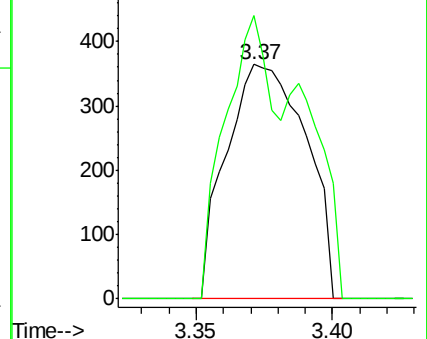
74 100

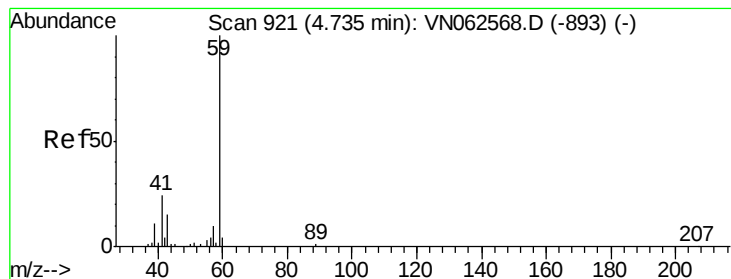
45 74.4 55.3 165.8



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#11

Tert butyl alcohol

Concen: 0.428 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.01 min

Lab File: VN062664.D

Acq: 30 Jul 2020 12:16

Instrument :

MSVOA_N

ClientSampleId :

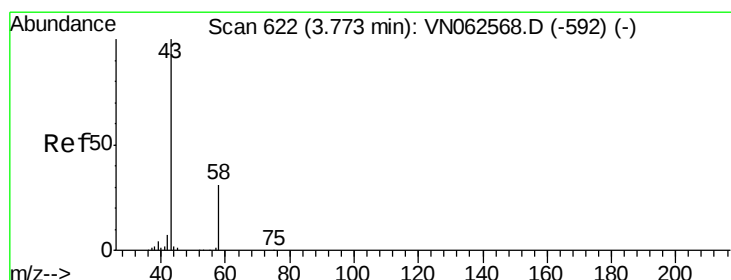
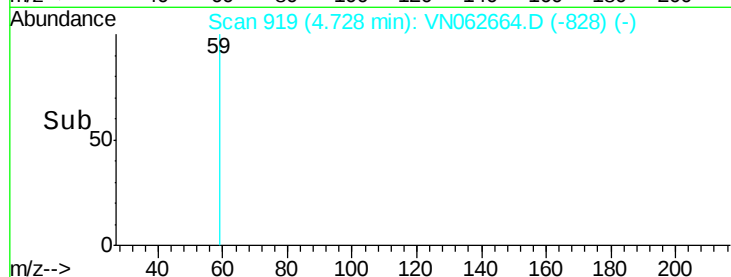
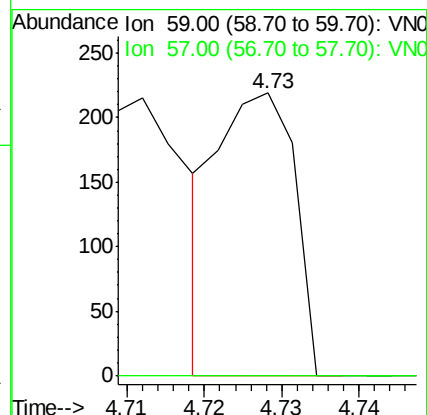
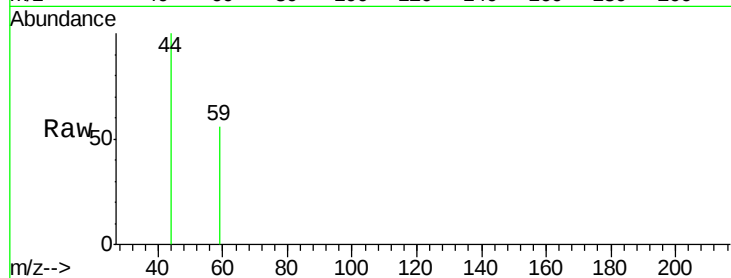
PB130598ZHE#17

Tot Ion: 59 Resp: 151

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



#16

Acetone

Concen: 18.865 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062664.D

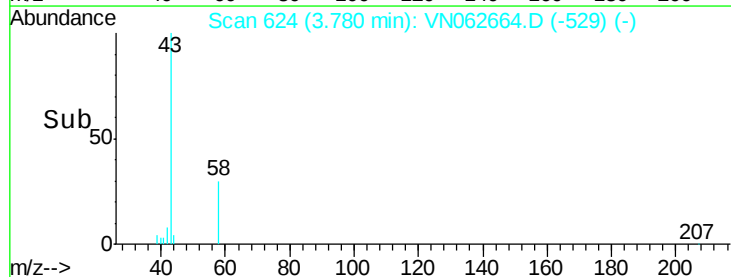
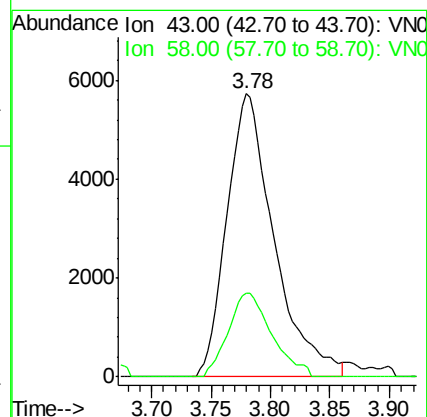
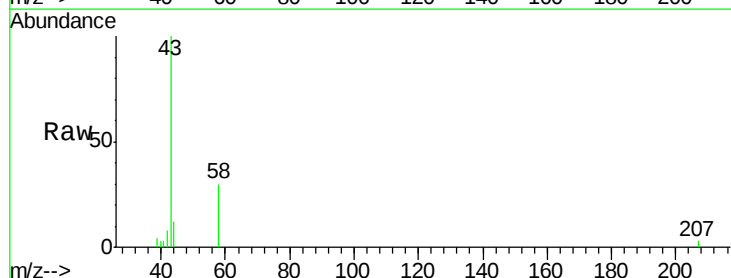
Acq: 30 Jul 2020 12:16

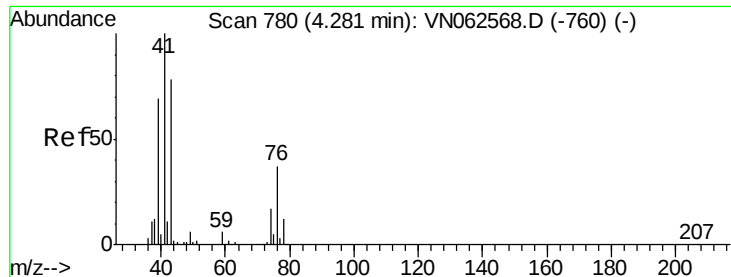
Tgt Ion: 43 Resp: 15747

Ion Ratio Lower Upper

43 100

58 29.7 24.6 37.0

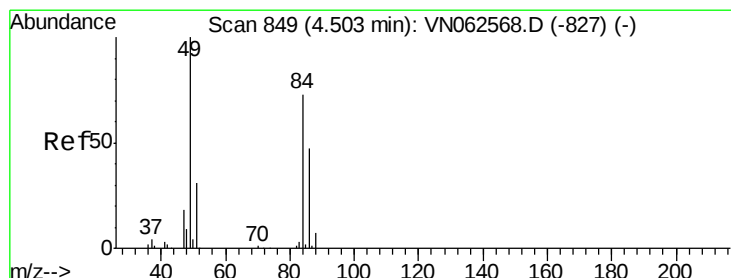
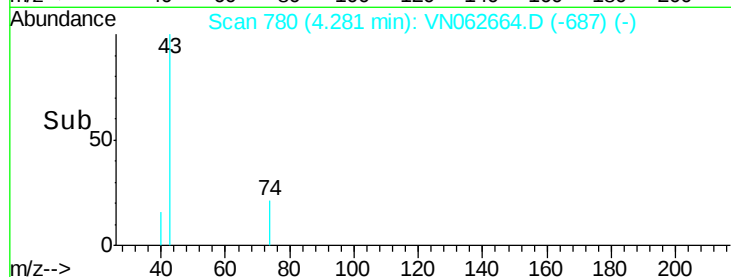
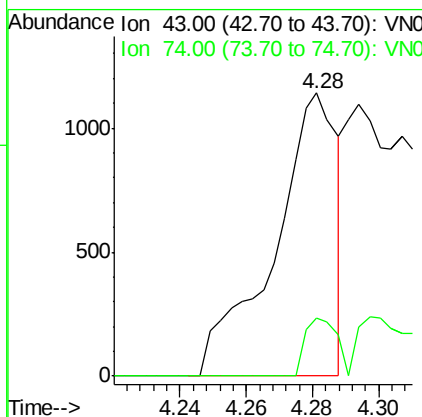
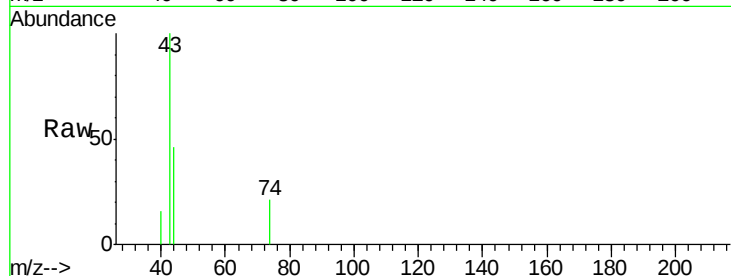




#18
Methyl Acetate
Concen: 0.716 ug/l
RT: 4.28 min Scan# 780
Delta R.T. -0.00 min
Lab File: VN062664.D
Acq: 30 Jul 2020 12:16

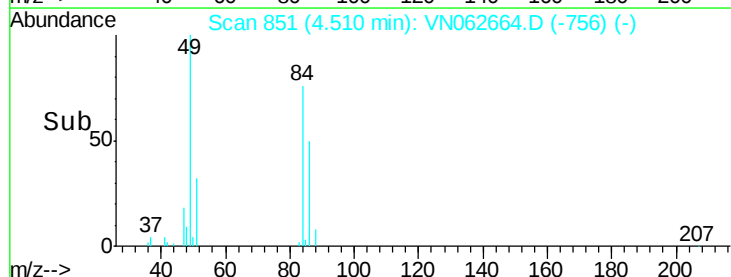
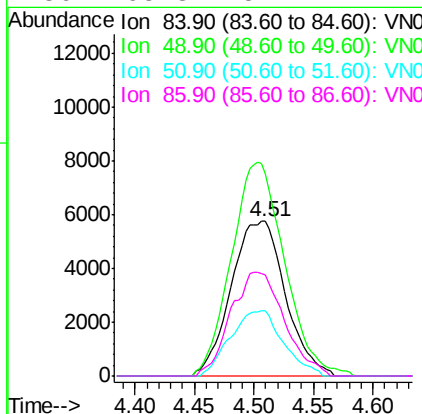
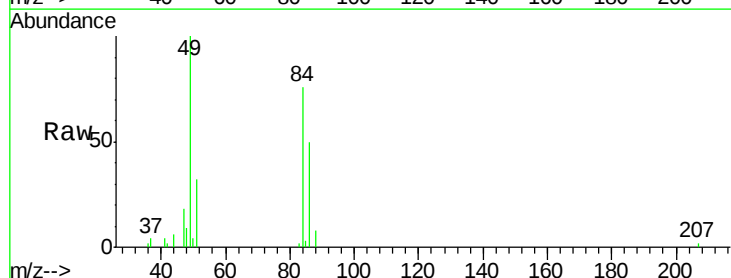
Instrument :
MSVOA_N
ClientSampleId :
PB130598ZHE#17

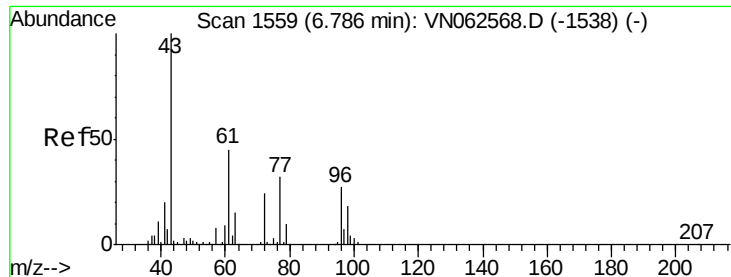
Tot Ion: 43 Resp: 1512
Ion Ratio Lower Upper
43 100
74 10.4 16.6 24.8#



#20
Methylene Chloride
Concen: 9.071 ug/l
RT: 4.51 min Scan# 851
Delta R.T. 0.01 min
Lab File: VN062664.D
Acq: 30 Jul 2020 12:16

Tgt Ion: 84 Resp: 18161
Ion Ratio Lower Upper
84 100
49 131.4 109.4 164.0
51 42.2 33.6 50.4
86 65.3 51.4 77.2





#25

2-Butanone

Concen: 1.568 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.02 min

Lab File: VN062664.D

Acq: 30 Jul 2020 12:16

Instrument :

MSVOA_N

ClientSampleId :

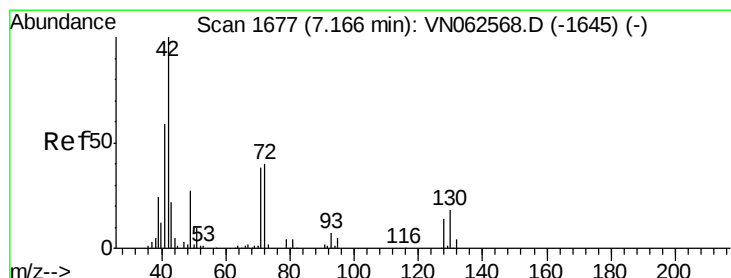
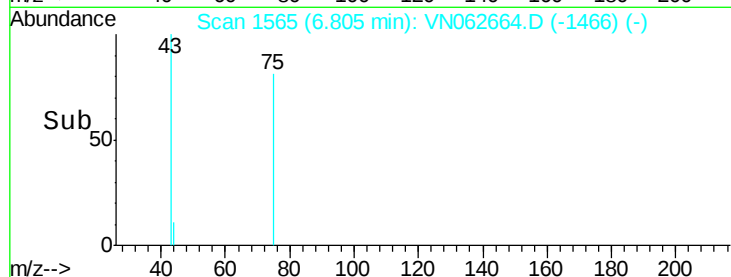
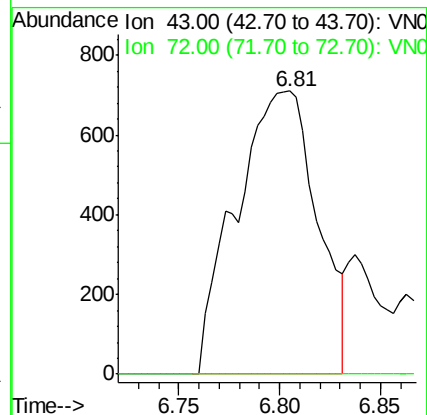
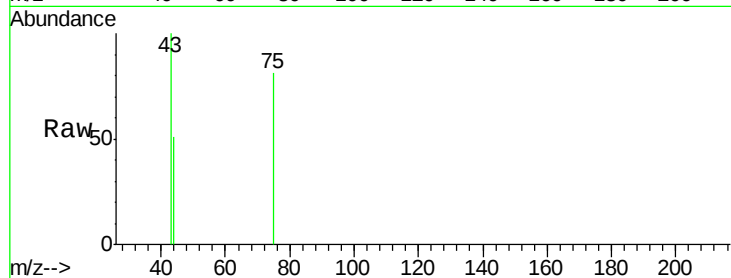
PB130598ZHE#17

Tot Ion: 43 Resp: 1993

Ion Ratio Lower Upper

43 100

72 0.0 19.0 28.6#



#29

Tetrahydrofuran

Concen: 0.549 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VN062664.D

Acq: 30 Jul 2020 12:16

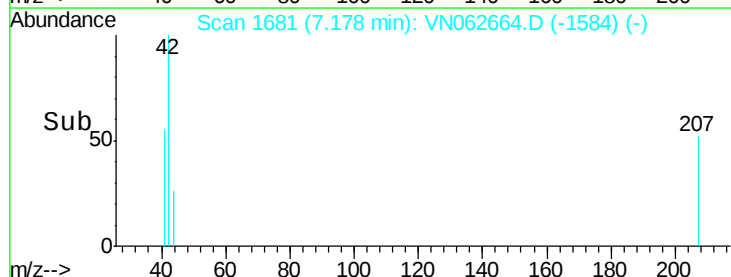
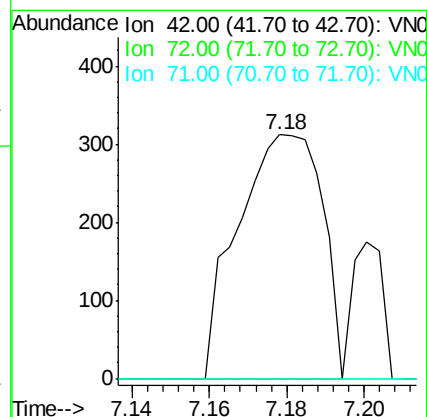
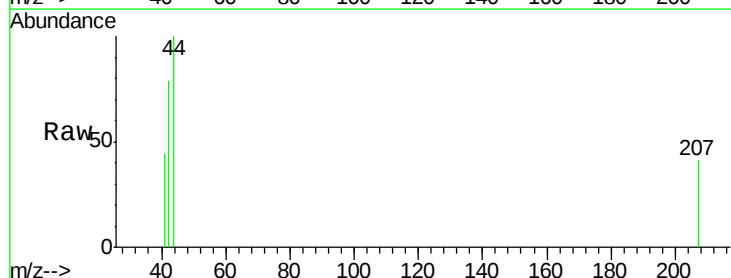
Tgt Ion: 42 Resp: 472

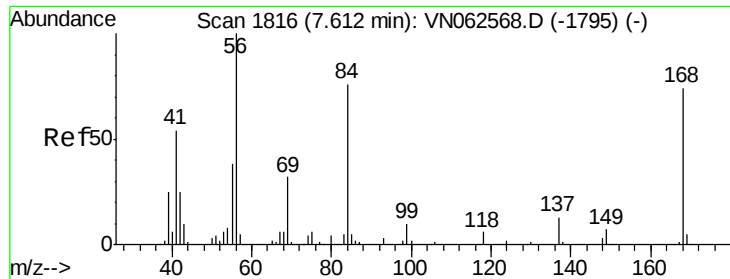
Ion Ratio Lower Upper

42 100

72 0.0 30.7 46.1#

71 0.0 29.1 43.7#

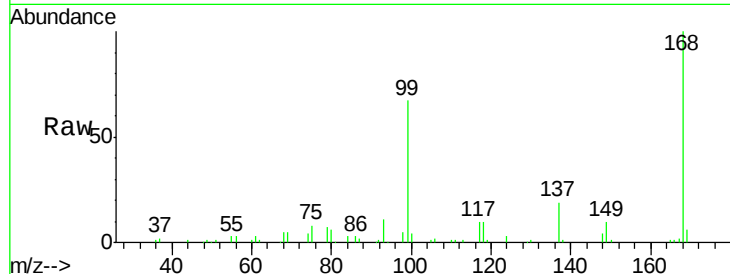




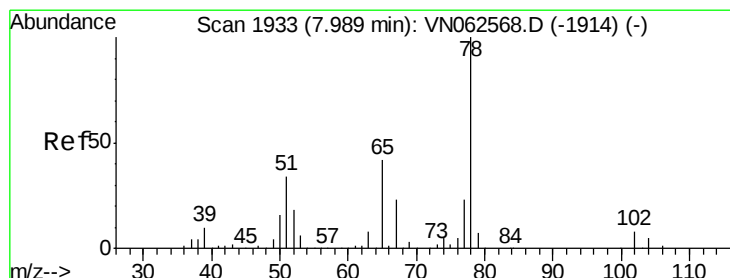
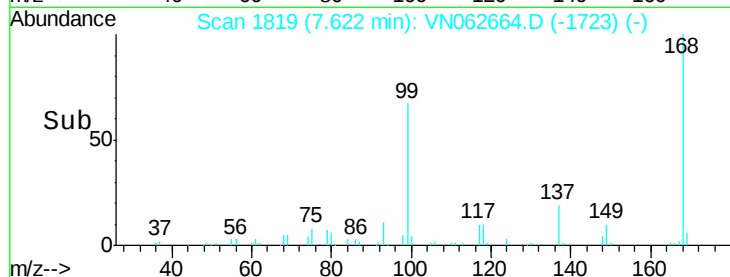
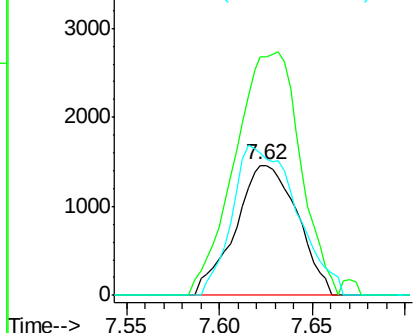
#31
Cyclohexane
Concen: 1.045 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN062664.D
Acq: 30 Jul 2020 12:16

Instrument :
MSVOA_N
ClientSampleId :
PB130598ZHE#17

Tot Ion: 56 Resp: 3414
Ion Ratio Lower Upper
56 100
69 183.3 25.3 37.9#
84 109.6 61.0 91.4#

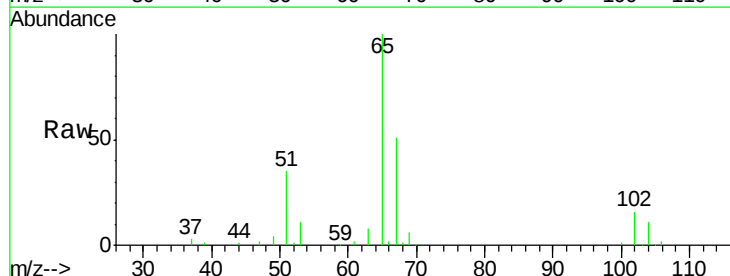


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

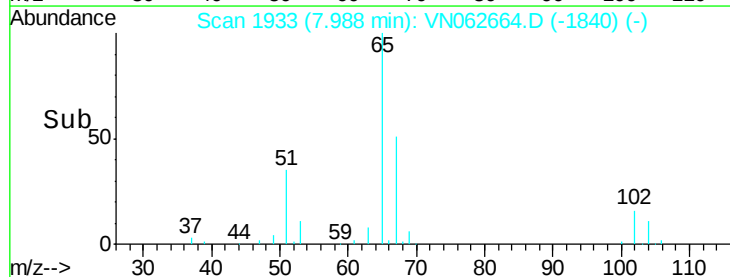
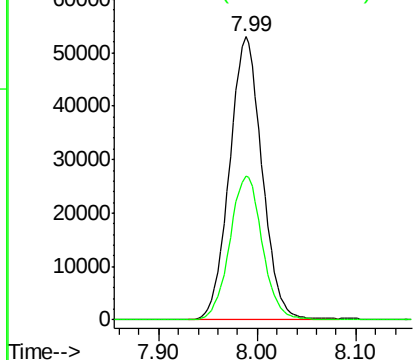


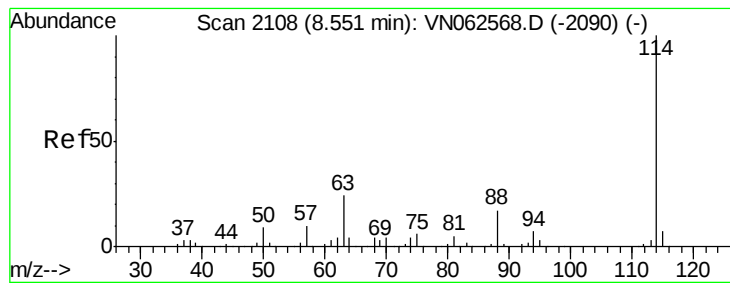
#33
1,2-Dichloroethane-d4
Concen: 54.939 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN062664.D
Acq: 30 Jul 2020 12:16

Tgt Ion: 65 Resp: 121866
Ion Ratio Lower Upper
65 100
67 50.8 0.0 106.0



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: VN062664.D

Acq: 30 Jul 2020 12:16

Instrument :

MSVOA_N

ClientSampleId :

PB130598ZHE#17

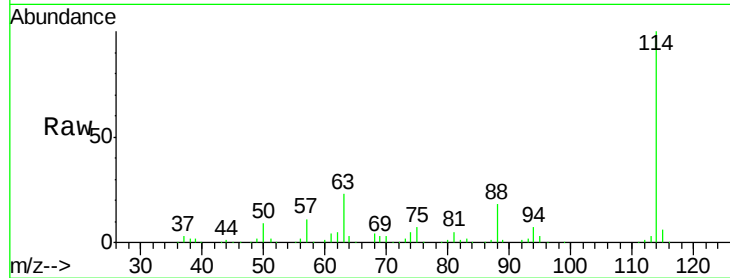
Tot Ion:114 Resp: 253120

Ion Ratio Lower Upper

114 100

63 23.5 0.0 48.4

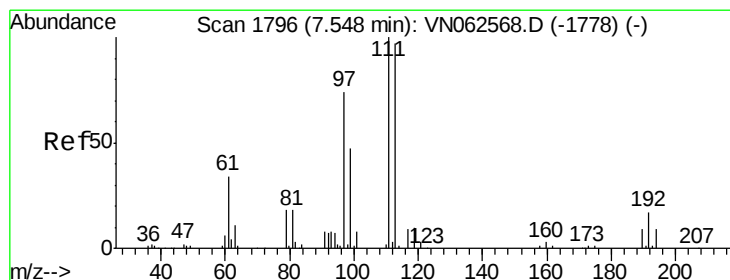
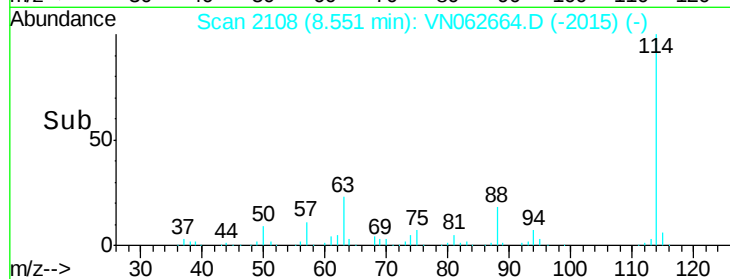
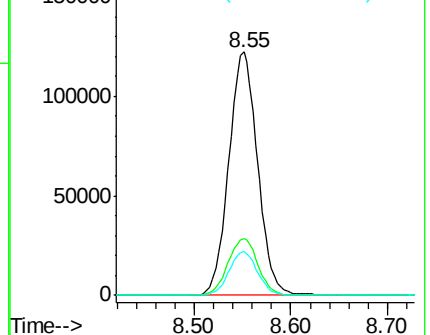
88 17.8 0.0 33.8



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: 52.031 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN062664.D

Acq: 30 Jul 2020 12:16

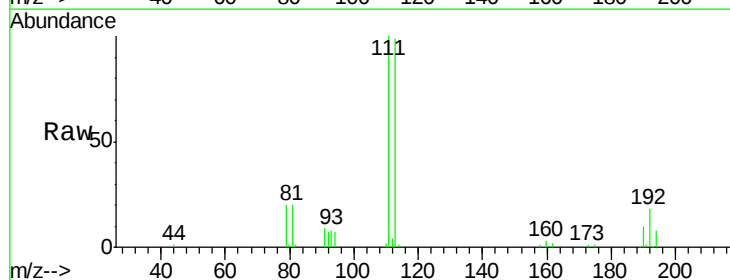
Tgt Ion:113 Resp: 86509

Ion Ratio Lower Upper

113 100

111 102.1 82.7 124.1

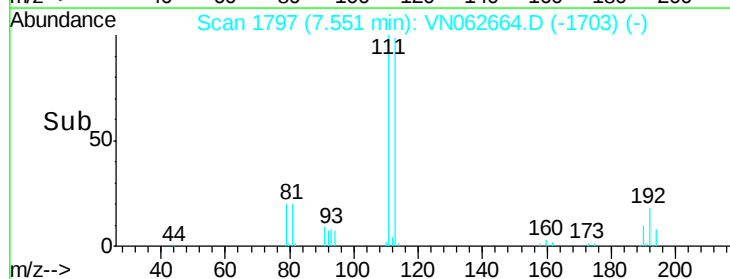
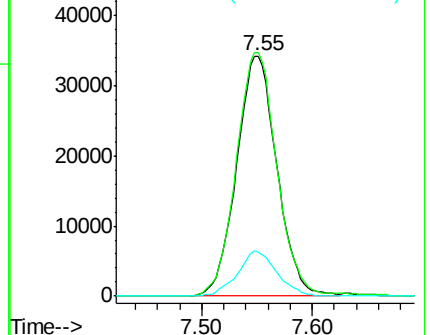
192 18.3 14.8 22.2

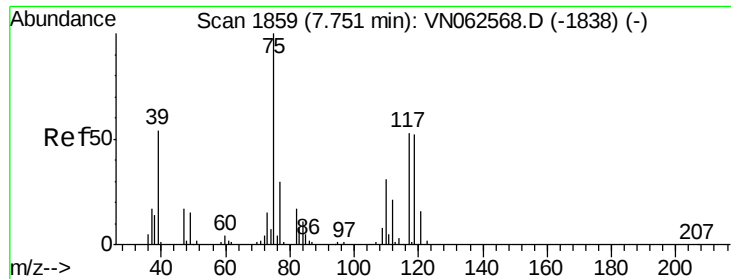


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

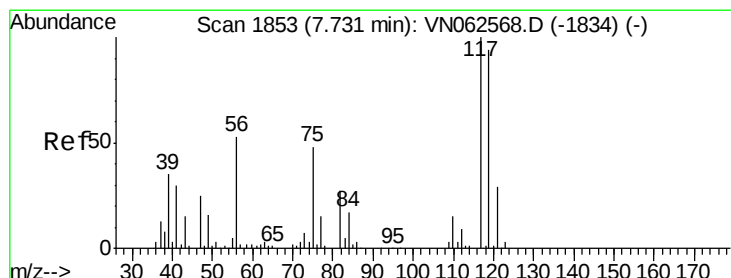
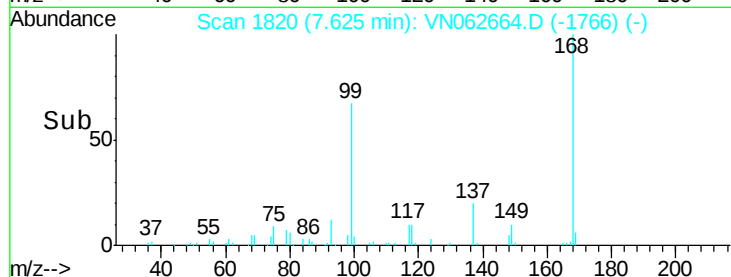
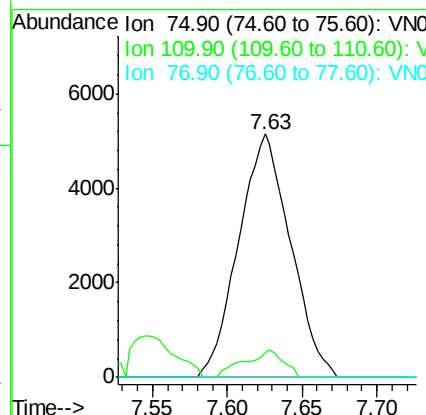
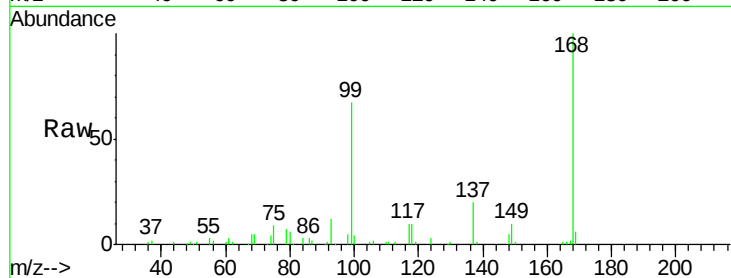




#36
 1,1-Dichloropropene
 Concen: 4.597 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062664.D
 Acq: 30 Jul 2020 12:16

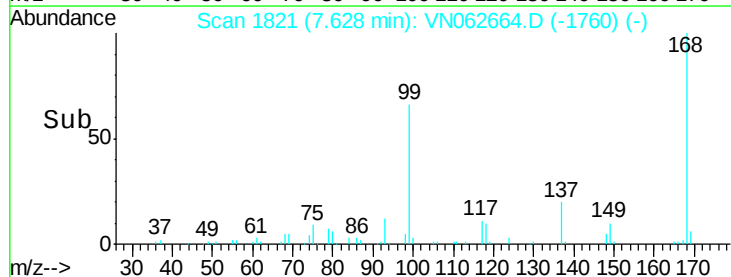
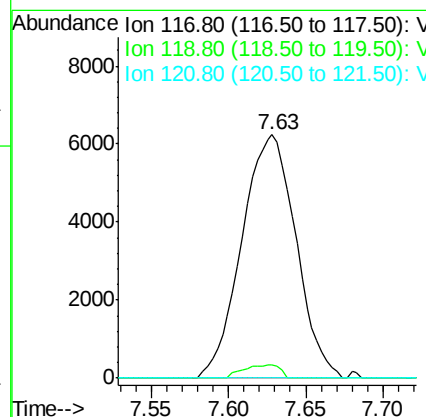
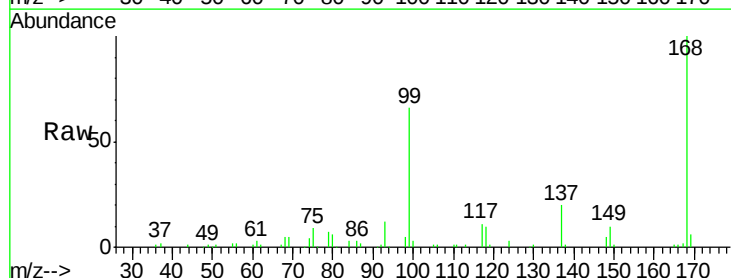
Instrument :
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 PB130598ZHE#17

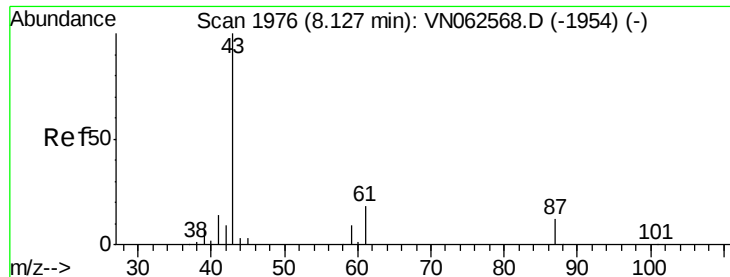
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.5	16.0	48.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.850 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.10 min
 Lab File: VN062664.D
 Acq: 30 Jul 2020 12:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	74.8	112.2#
121	0.0	23.0	34.6#





#43

Isopropyl Acetate

Concen: 10.024 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062664.D

Acq: 30 Jul 2020 12:16

Instrument :

MSVOA_N

ClientSampleId :

PB130598ZHE#17

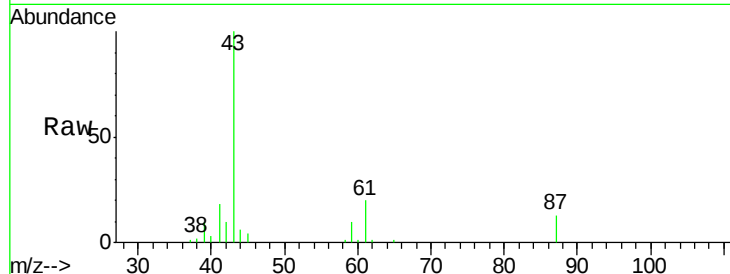
Tot Ion: 43 Resp: 46998

Ion Ratio Lower Upper

43 100

61 18.6 20.8 31.2#

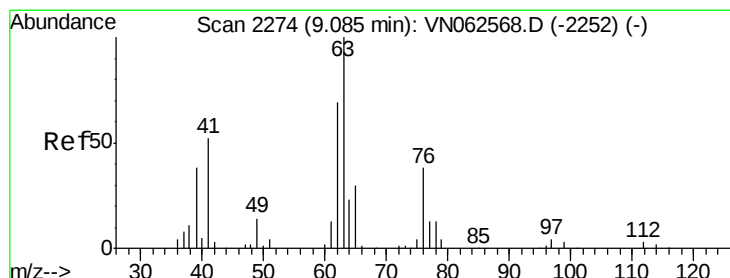
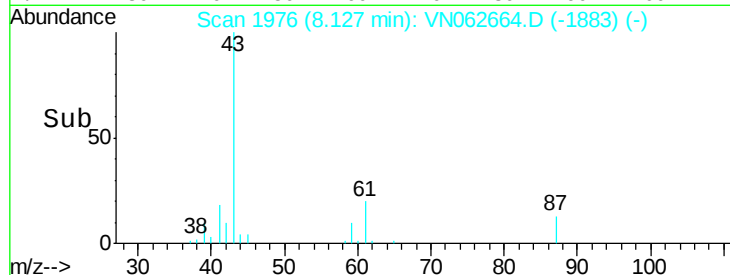
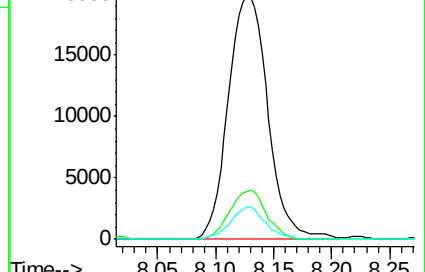
87 11.7 9.2 13.8



Abundance Ion 43.00 (42.70 to 43.70): VN062664.D (-1954) (-)

Ion 61.00 (60.70 to 61.70): VN062664.D (-1954) (-)

Ion 87.00 (86.70 to 87.70): VN062664.D (-1954) (-)



#45

1,2-Dichloropropane

Concen: 0.371 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062664.D

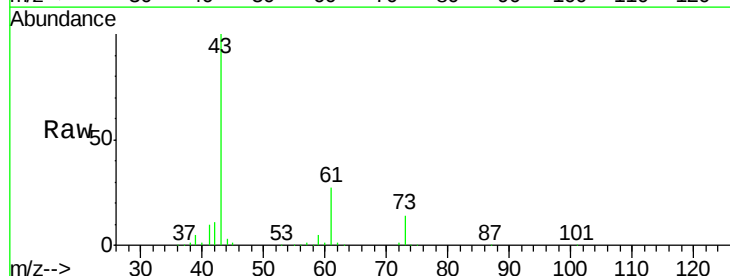
Acq: 30 Jul 2020 12:16

Tgt Ion: 63 Resp: 850

Ion Ratio Lower Upper

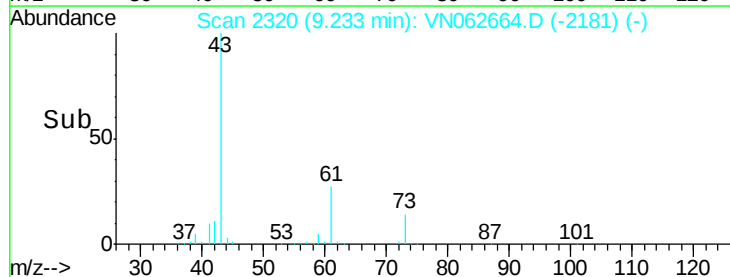
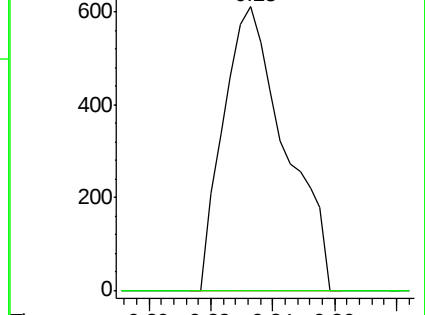
63 100

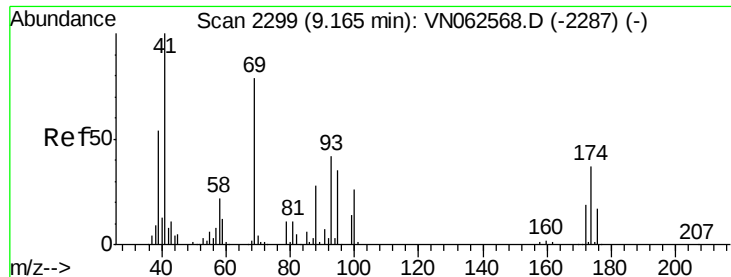
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN062664.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN062664.D (-2181) (-)

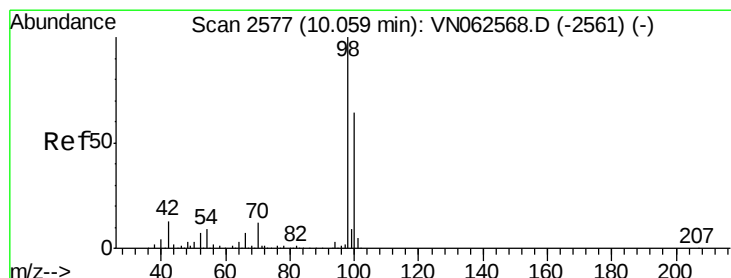
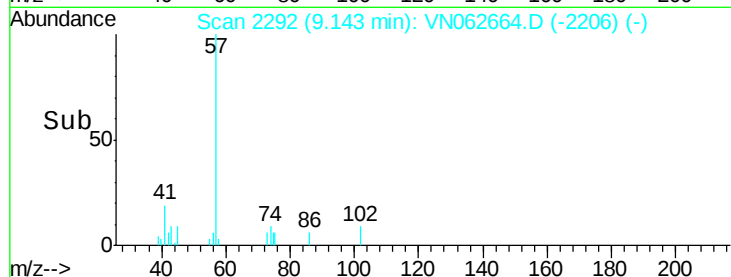
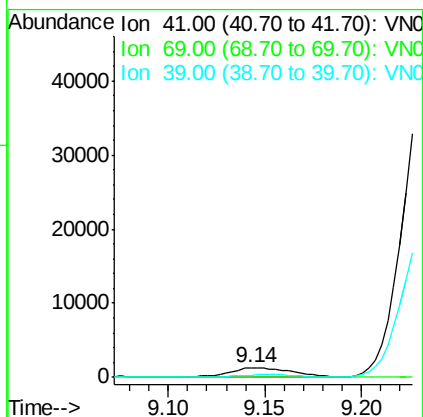
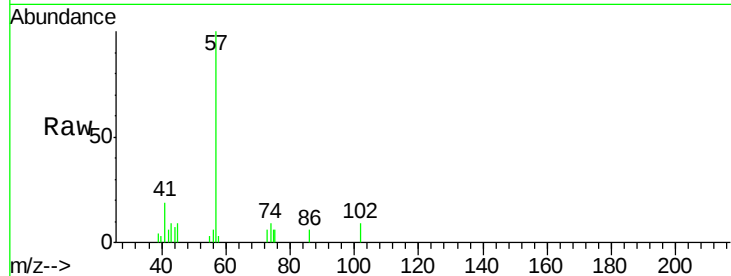




#48
Methvl methacrylate
Concen: 1.290 ug/l
RT: 9.14 min Scan# 2292
Delta R.T. -0.02 min
Lab File: VN062664.D
Acq: 30 Jul 2020 12:16

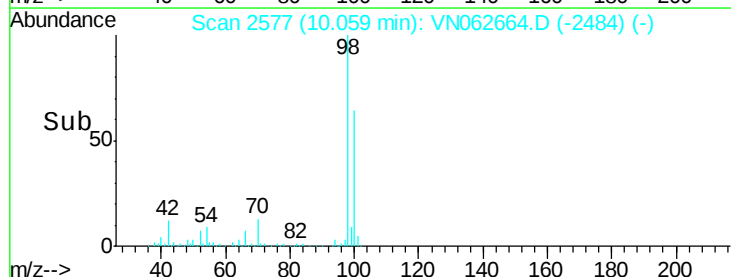
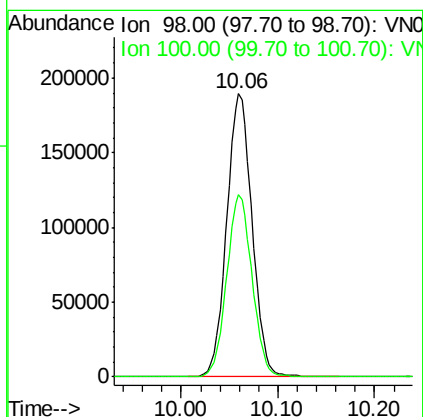
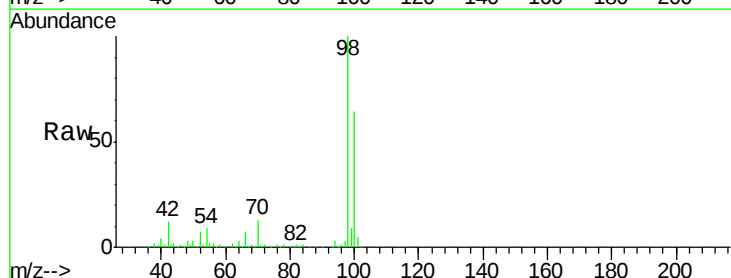
Instrument :
MSVOA_N
ClientSampleId :
PB130598ZHE#17

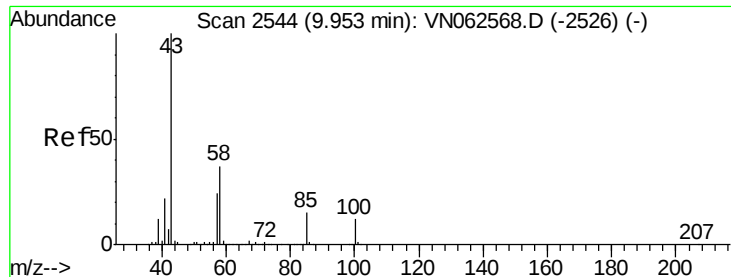
Tot Ion: 41 Resp: 2874
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 43.5 65.3#



#50
Toluene-d8
Concen: 52.048 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062664.D
Acq: 30 Jul 2020 12:16

Tgt Ion: 98 Resp: 345277
Ion Ratio Lower Upper
98 100
100 64.4 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 2.095 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062664.D

Acq: 30 Jul 2020 12:16

Instrument :

MSVOA_N

ClientSampleId :

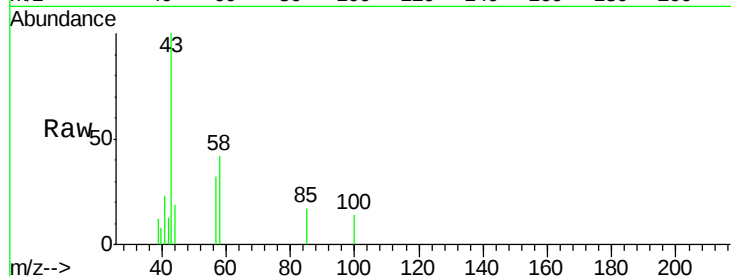
PB130598ZHE#17

Tot Ion: 43 Resp: 5878

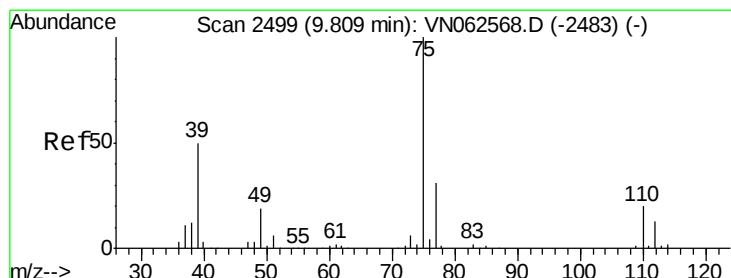
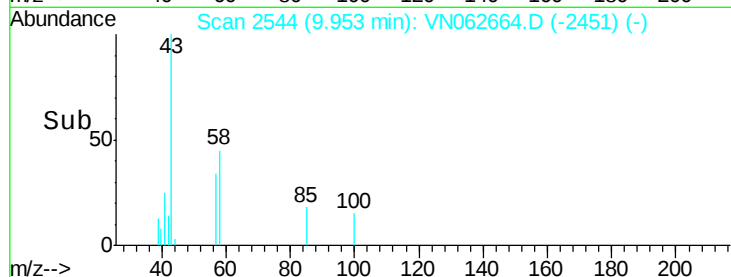
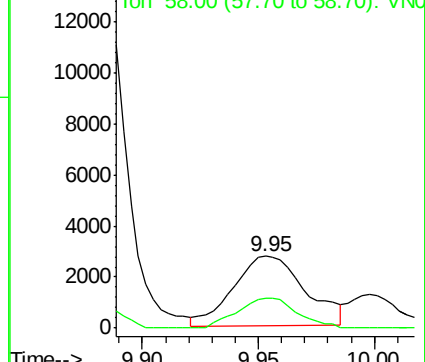
Ion Ratio Lower Upper

43 100

58 35.8 29.8 44.6



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



#54

cis-1,3-Dichloropropene

Concen: 5.441 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062664.D

Acq: 30 Jul 2020 12:16

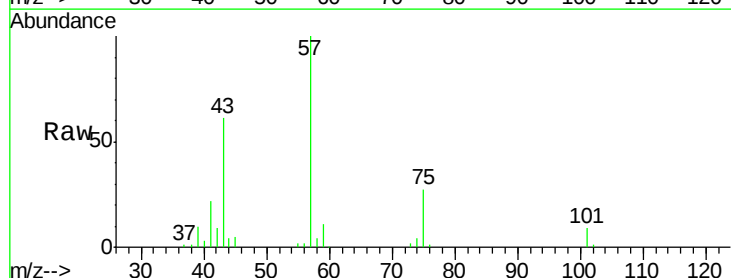
Tgt Ion: 75 Resp: 18664

Ion Ratio Lower Upper

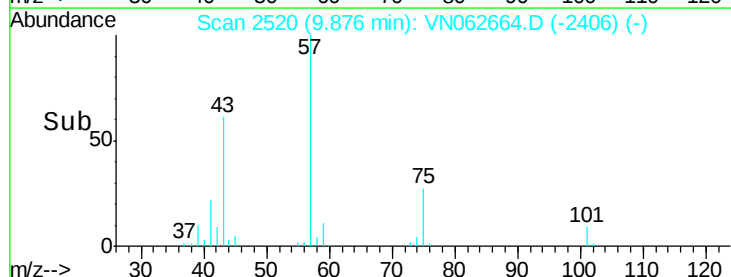
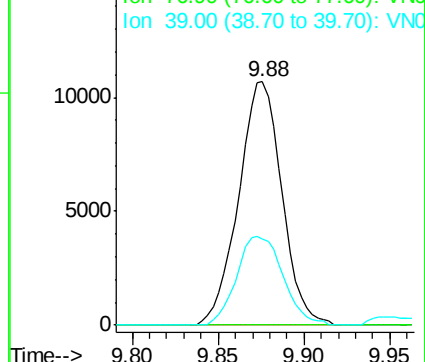
75 100

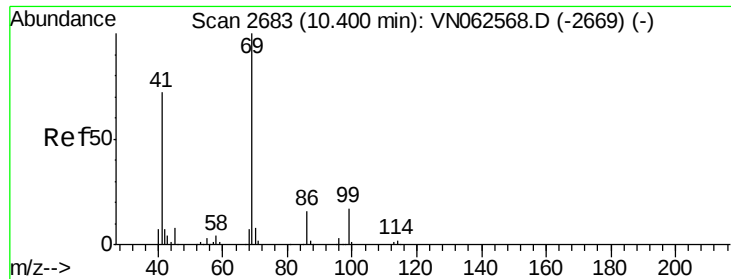
77 0.0 25.0 37.6#

39 35.5 39.8 59.8#



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





#56

Ethyl methacrylate

Concen: 2.043 ug/l

RT: 10.52 min Scan# 2721

Delta R.T. 0.12 min

Lab File: VN062664.D

Acq: 30 Jul 2020 12:16

Instrument :

MSVOA_N

ClientSampleId :

PB130598ZHE#17

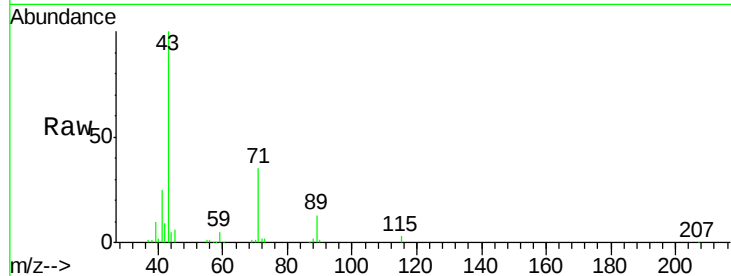
Tot Ion: 69 Resp: 939

Ion Ratio Lower Upper

69 100

41 4158.7 57.2 85.8#

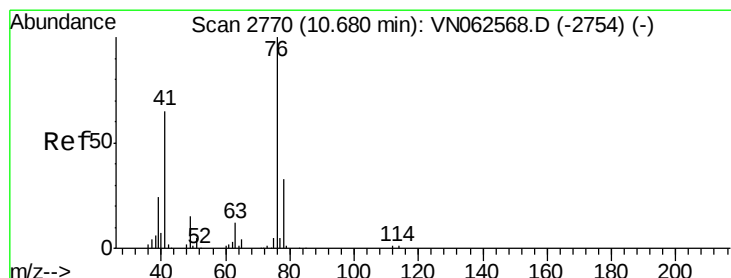
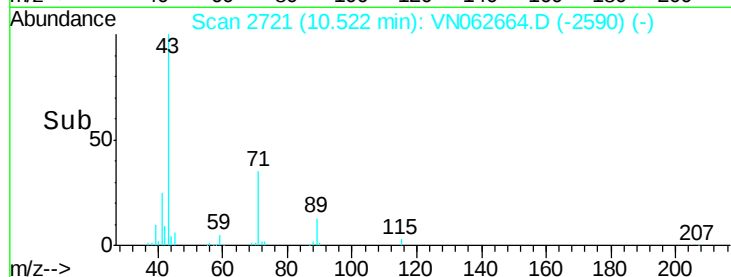
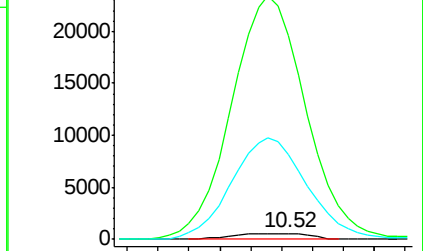
39 1766.6 28.6 43.0#



Abundance Ion 69.00 (68.70 to 69.70): VN062664.D (-2669) (-)

Ion 41.00 (40.70 to 41.70): VN062664.D (-2669) (-)

Ion 39.00 (38.70 to 39.70): VN062664.D (-2669) (-)



#57

1,3-Dichloropropane

Concen: 1.055 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.05 min

Lab File: VN062664.D

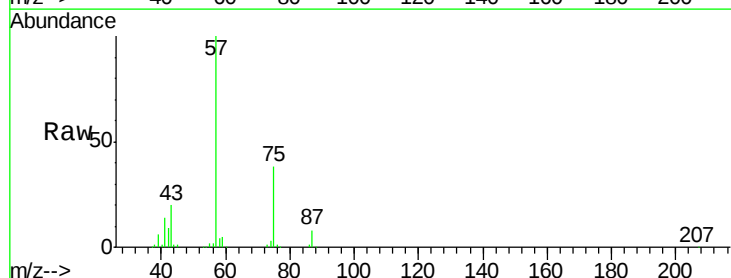
Acq: 30 Jul 2020 12:16

Tgt Ion: 76 Resp: 3556

Ion Ratio Lower Upper

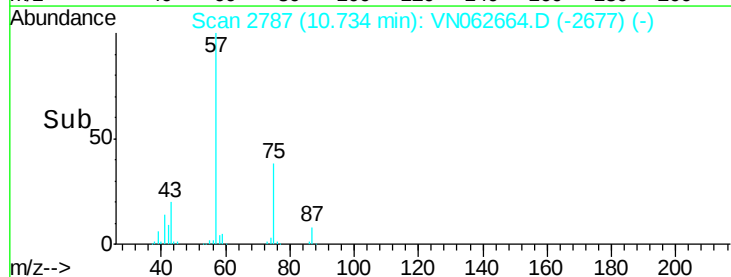
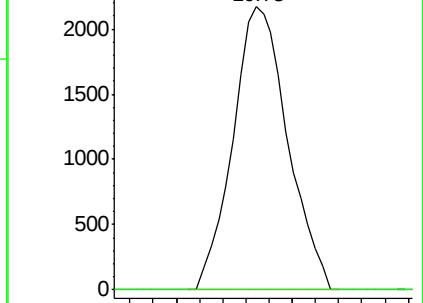
76 100

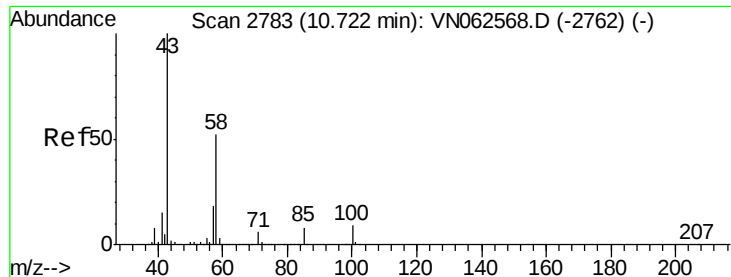
78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VN062664.D (-2677) (-)

Ion 77.90 (77.60 to 78.60): VN062664.D (-2677) (-)

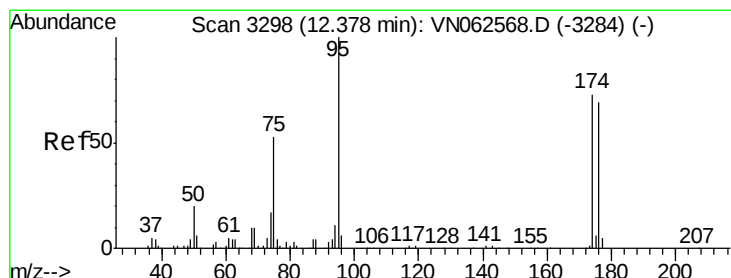
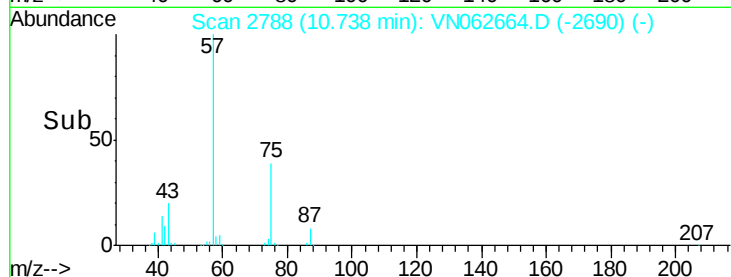
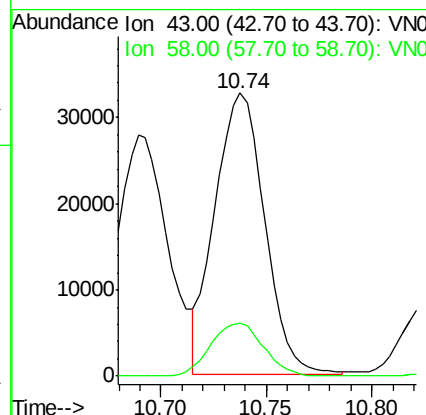
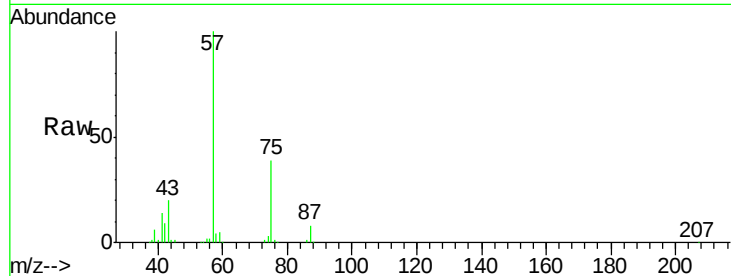




#59
 2-Hexanone
 Concen: 27.464 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062664.D
 Acq: 30 Jul 2020 12:16

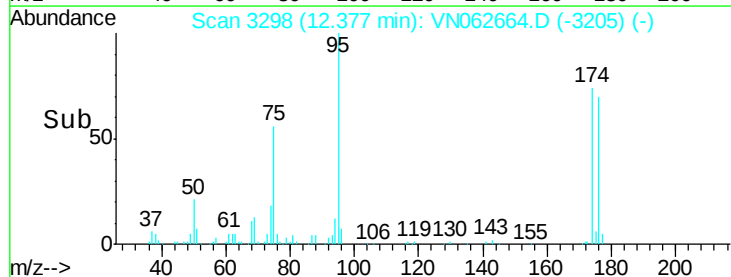
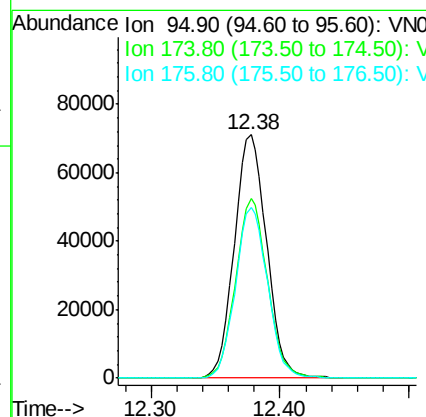
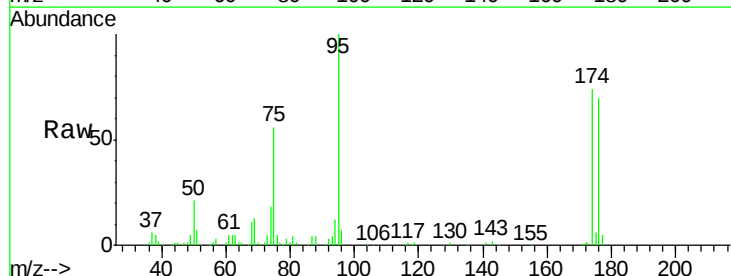
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130598ZHE#17

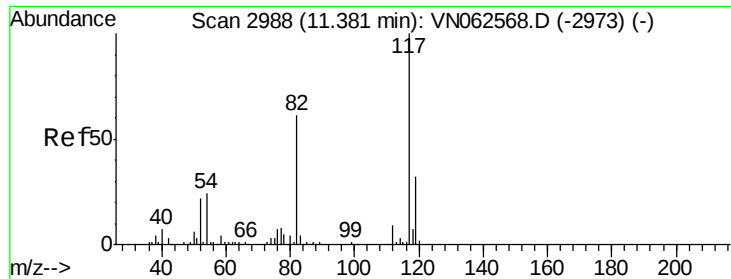
Tot Ion: 43 Resp: 53799
 Ion Ratio Lower Upper
 43 100
 58 19.9 26.0 78.0#



#62
 4-Bromofluorobenzene
 Concen: 51.004 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VN062664.D
 Acq: 30 Jul 2020 12:16

Tgt Ion: 95 Resp: 123715
 Ion Ratio Lower Upper
 95 100
 174 72.8 0.0 144.6
 176 69.9 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: VN062664.D

Acq: 30 Jul 2020 12:16

Instrument :

MSVOA_N

ClientSampleId :

PB130598ZHE#17

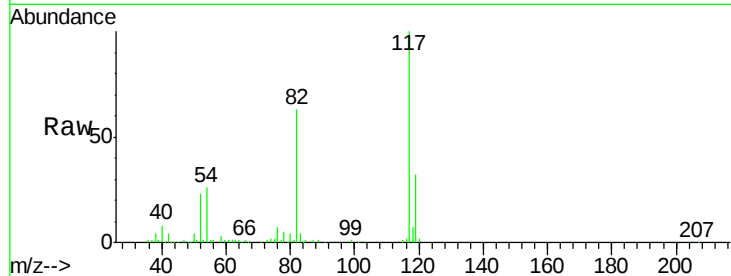
Tot Ion:117 Resp: 262213

Ion Ratio Lower Upper

117 100

82 62.5 49.0 73.6

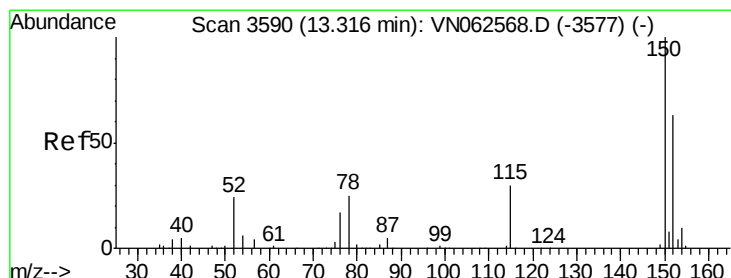
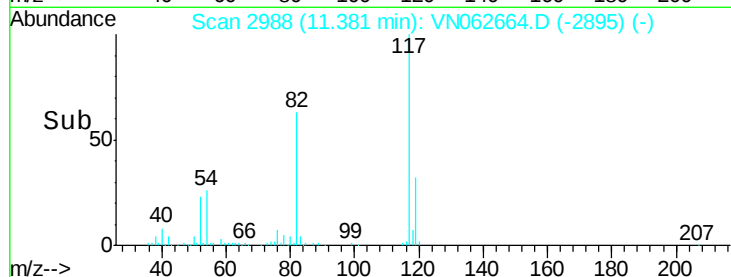
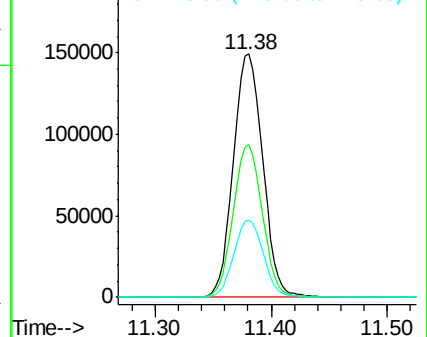
119 32.0 25.4 38.2



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: VN062664.D

Acq: 30 Jul 2020 12:16

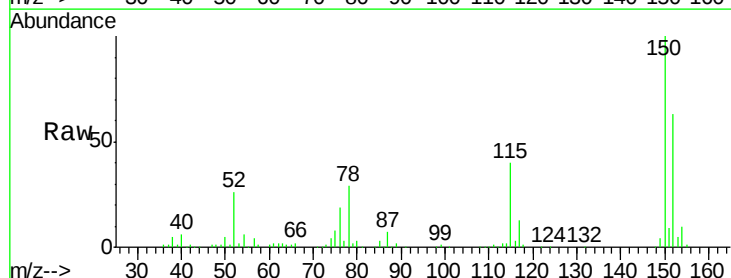
Tgt Ion:152 Resp: 92430

Ion Ratio Lower Upper

152 100

115 62.2 31.8 95.4

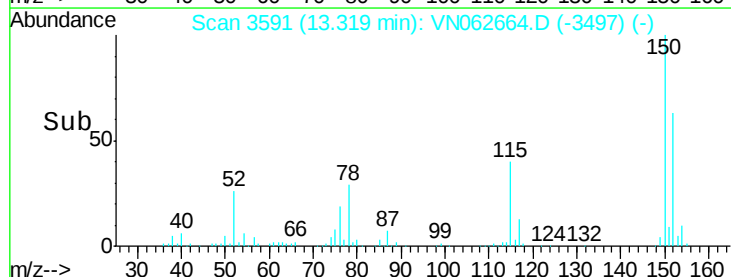
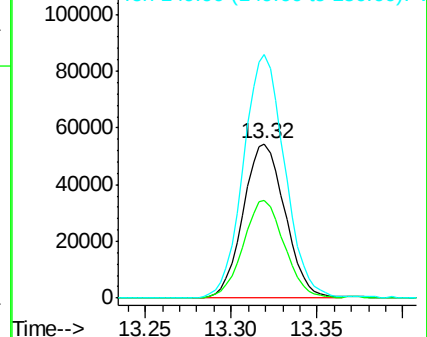
150 156.4 0.0 351.4

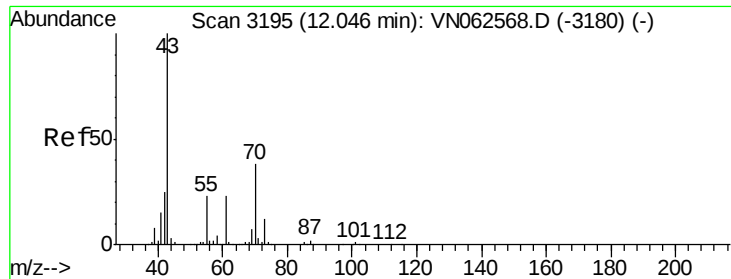


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.592 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062664.D

Acq: 30 Jul 2020 12:16

Instrument :

MSVOA_N

ClientSampleId :

PB130598ZHE#17

Tot Ion: 43 Resp: 1931

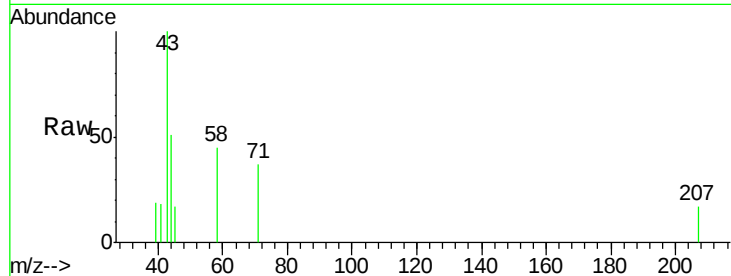
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 3.1 19.0 28.6#

61 0.0 18.4 27.6#

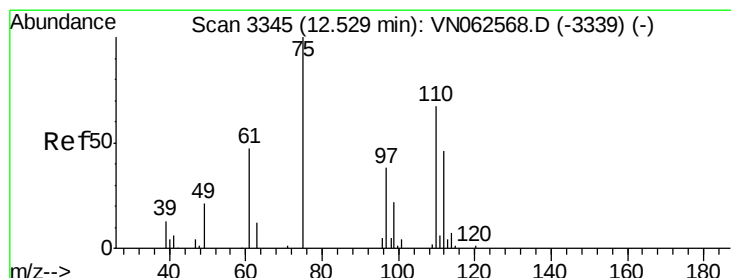
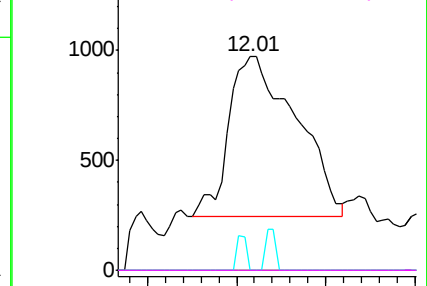
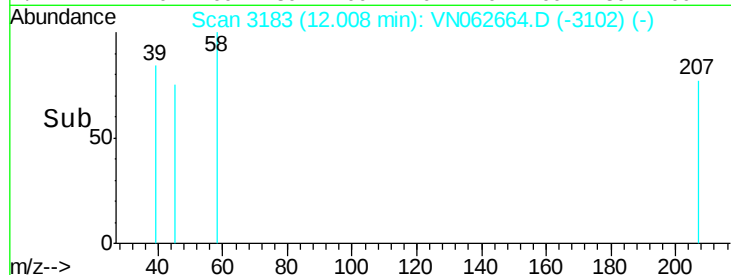


Abundance Ion 43.00 (42.70 to 43.70): VN062568.D (-3180) (-)

Ion 70.00 (69.70 to 70.70): VN062568.D (-3180) (-)

Ion 55.00 (54.70 to 55.70): VN062568.D (-3180) (-)

Ion 61.00 (60.70 to 61.70): VN062568.D (-3180) (-)



#76

1,2,3-Trichloropropane

Concen: 29.124 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062664.D

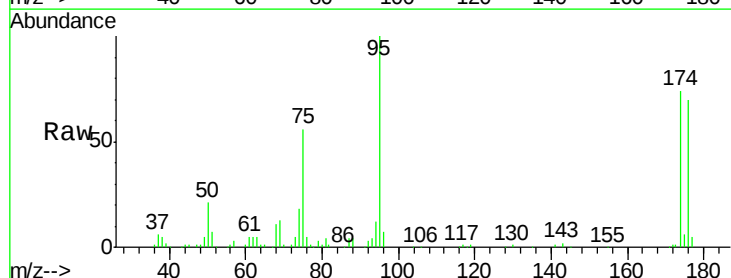
Acq: 30 Jul 2020 12:16

Tgt Ion: 75 Resp: 68519

Ion Ratio Lower Upper

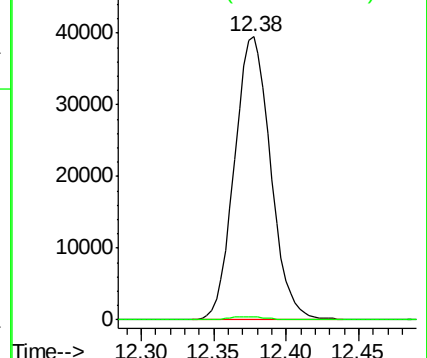
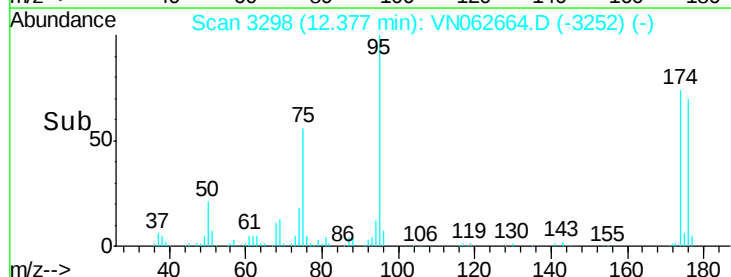
75 100

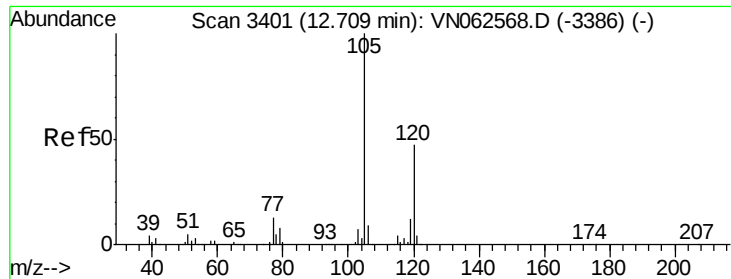
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN062568.D (-3339) (-)

Ion 77.00 (76.70 to 77.70): VN062568.D (-3339) (-)





#80

1,3,5-Trimethylbenzene

Concen: 0.331 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN062664.D

Acq: 30 Jul 2020 12:16

Instrument :

MSVOA_N

ClientSampleId :

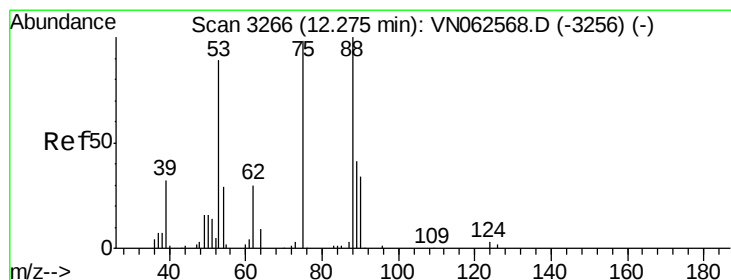
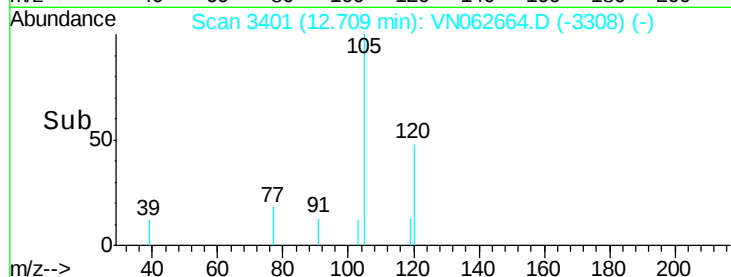
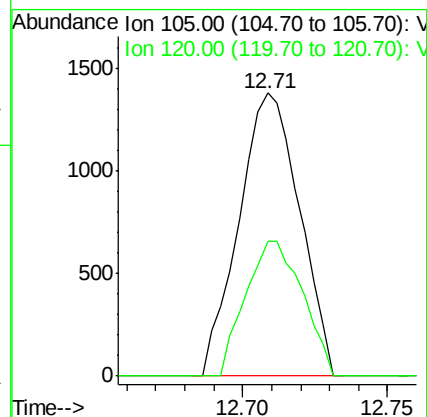
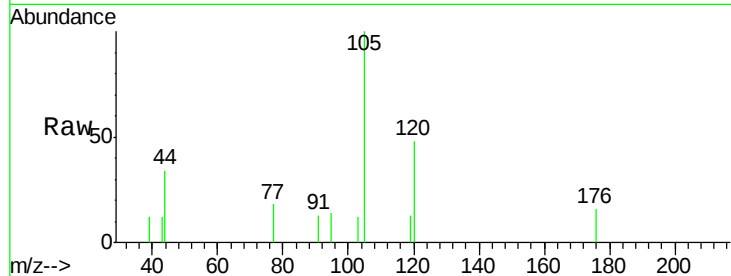
PB130598ZHE#17

Tot Ion:105 Resp: 2005

Ion Ratio Lower Upper

105 100

120 44.9 23.2 69.6



#81

trans-1,4-Dichloro-2-butene

Concen: 81.074 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062664.D

Acq: 30 Jul 2020 12:16

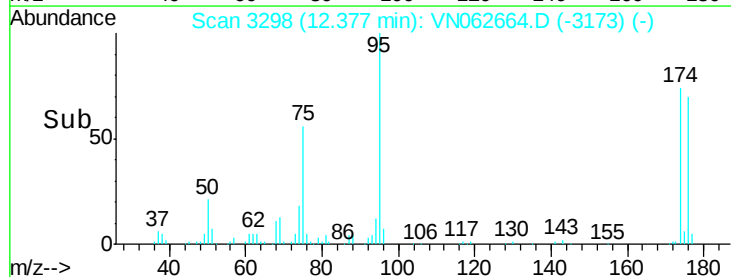
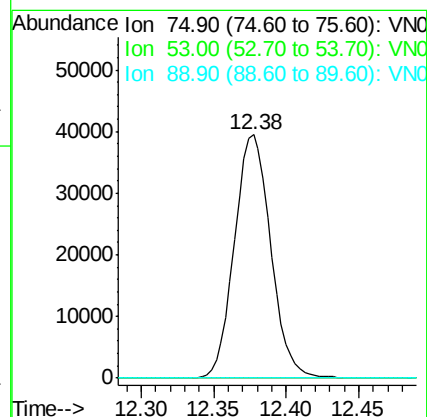
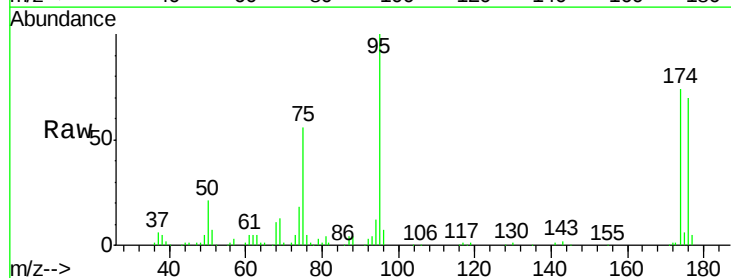
Tgt Ion: 75 Resp: 68519

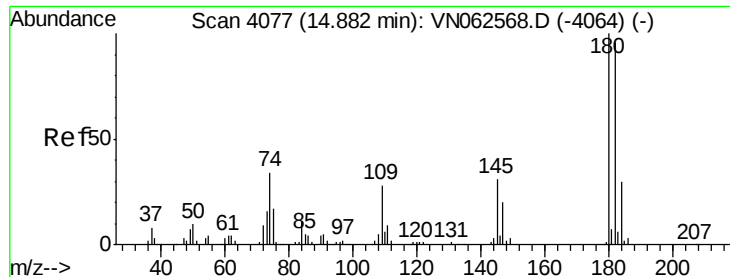
Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 34.5 51.7#

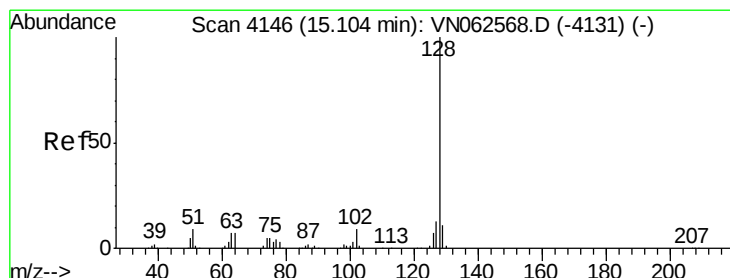
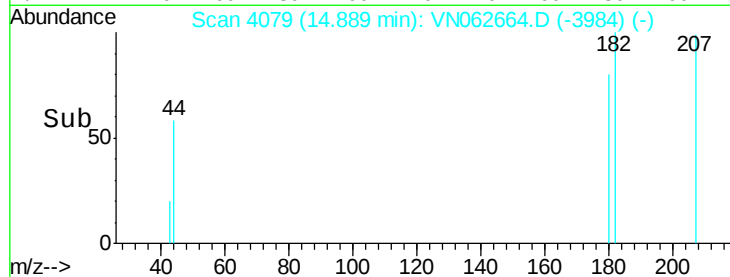
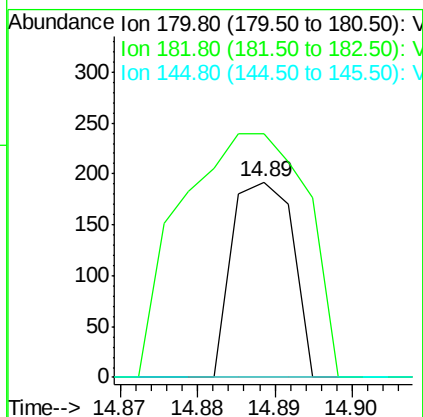
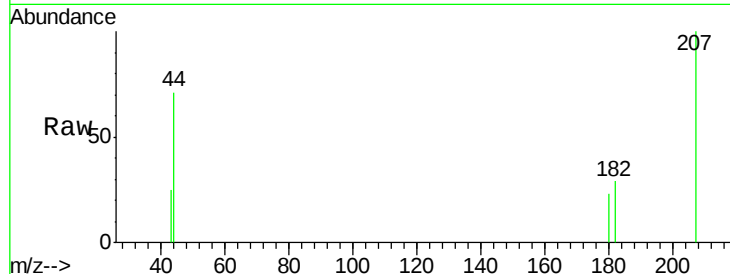




#93
 1,2,4-Trichlorobenzene
 Concen: 3.167 ug/l
 RT: 14.89 min Scan# 4079
 Delta R.T. 0.01 min
 Lab File: VN062664.D
 Acq: 30 Jul 2020 12:16

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130598ZHE#17

Tot Ion:180 Resp: 105
 Ion Ratio Lower Upper
 180 100
 182 259.0 47.8 143.3#
 145 0.0 15.3 45.9#



#95
 Naphthalene
 Concen: 3.999 ug/l
 RT: 15.11 min Scan# 4149
 Delta R.T. 0.01 min
 Lab File: VN062664.D
 Acq: 30 Jul 2020 12:16

Tgt Ion:128 Resp: 1056
 Ion Ratio Lower Upper
 128 100
 127 2.8 10.4 15.6#
 129 0.0 8.7 13.1#

