

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072720\
 Data File : VN062610.D
 Acq On : 27 Jul 2020 19:55
 Operator : JC/MD
 Sample : PB130485ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130485ZHE#07

Quant Time: Jul 28 06:26:09 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	138904	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	250968	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	253154	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	105473	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	118440	54.89	ug/l	0.00
Spiked Amount			Recovery	=	109.78%	
35) Dibromofluoromethane	7.55	113	83425	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
50) Toluene-d8	10.06	98	327584	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
62) 4-Bromofluorobenzene	12.38	95	126558	52.62	ug/l	0.00
Spiked Amount			Recovery	=	105.24%	

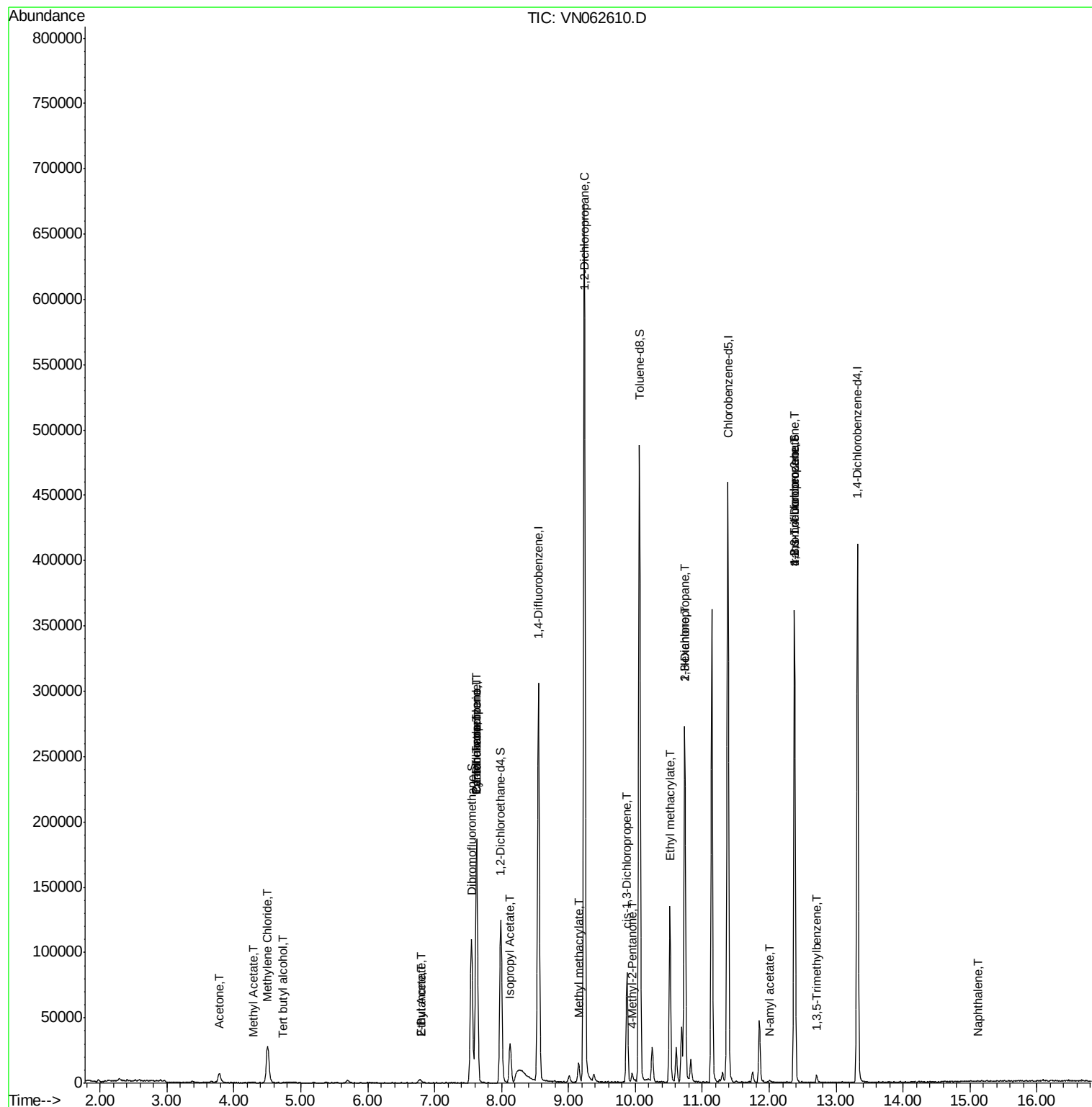
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	150	0.437	ug/l #	73
16) Acetone	3.78	43	13434	16.544	ug/l	97
18) Methyl Acetate	4.28	43	703	0.342	ug/l #	56
20) Methylene Chloride	4.50	84	20230	10.388	ug/l	92
25) 2-Butanone	6.80	43	1720	1.391	ug/l #	52
31) Cyclohexane	7.63	56	3463	1.089	ug/l #	14
36) 1,1-Dichloropropene	7.62	75	12721	4.755	ug/l #	47
37) Ethyl Acetate	6.80	43	1720	0.596	ug/l #	69
38) Carbon Tetrachloride	7.63	117	14976	5.824	ug/l #	17
43) Isopropyl Acetate	8.13	43	37189	8.000	ug/l #	89
45) 1,2-Dichloropropane	9.24	63	803	0.353	ug/l #	44
48) Methyl methacrylate	9.14	41	2344	1.061	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	4535	1.630	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	14543	4.276	ug/l #	64
56) Ethyl methacrylate	10.52	69	618	1.951	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	2716	0.813	ug/l #	42
59) 2-Hexanone	10.74	43	42804	22.623	ug/l #	53
74) N-amyl acetate	12.01	43	1772	0.476	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	69442	25.866	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3428	0.496	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.38	75	69442	72.005	ug/l #	12
95) Naphthalene	15.11	128	166	3.794	ug/l #	69

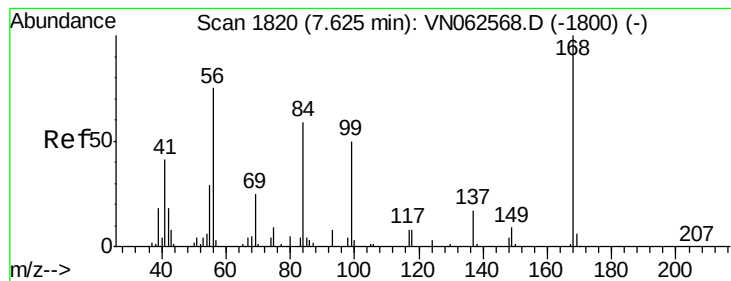
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 21 18:48:59 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062610.D

Acq: 27 Jul 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

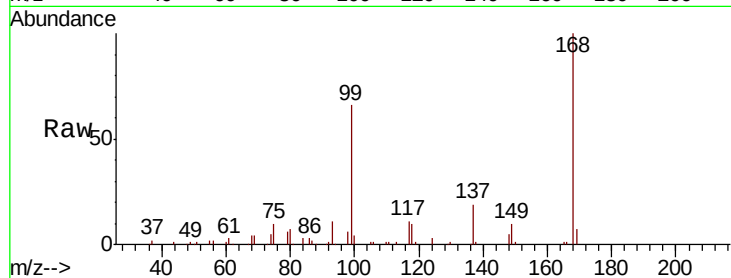
PB130485ZHE#07

Tot Ion:168 Resp: 138904

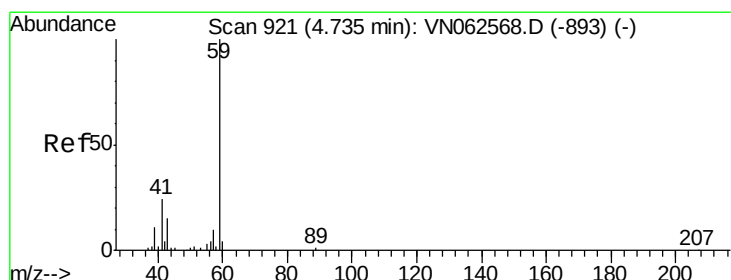
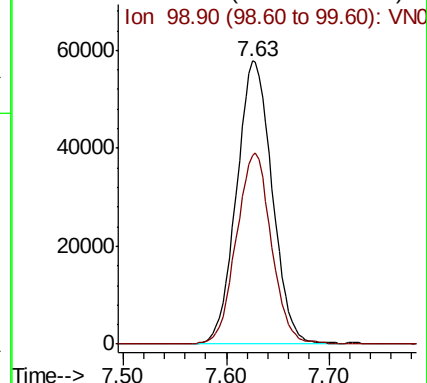
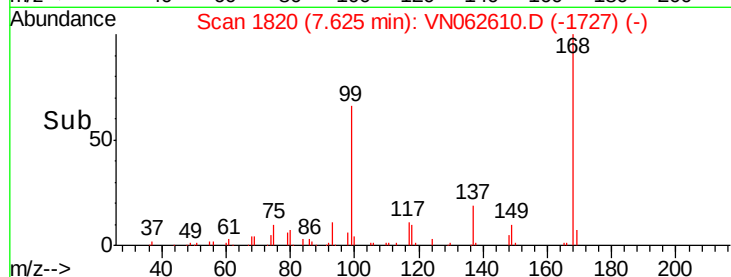
Ion Ratio Lower Upper

168 100

99 66.4 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): VN062610.D (-1727) (-)



#11

Tert butyl alcohol

Concen: 0.437 ug/l

RT: 4.74 min Scan# 922

Delta R.T. 0.00 min

Lab File: VN062610.D

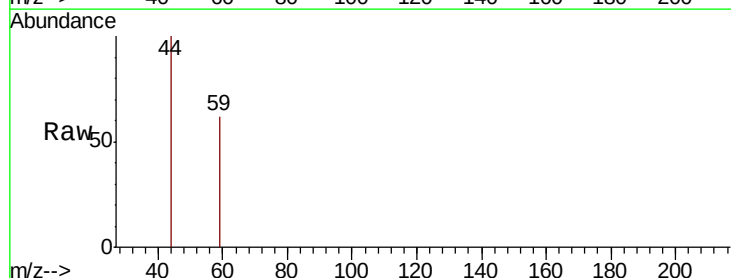
Acq: 27 Jul 2020 19:55

Tgt Ion: 59 Resp: 150

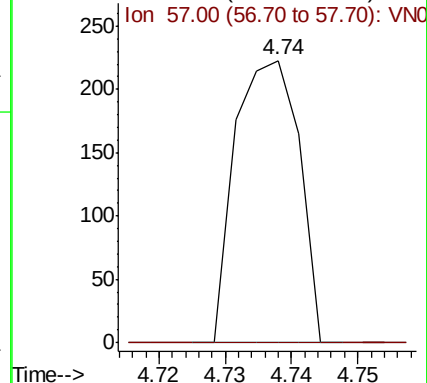
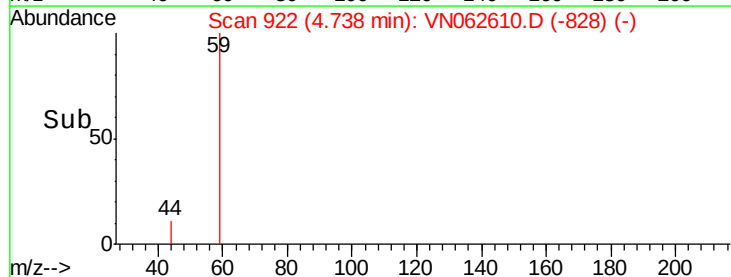
Ion Ratio Lower Upper

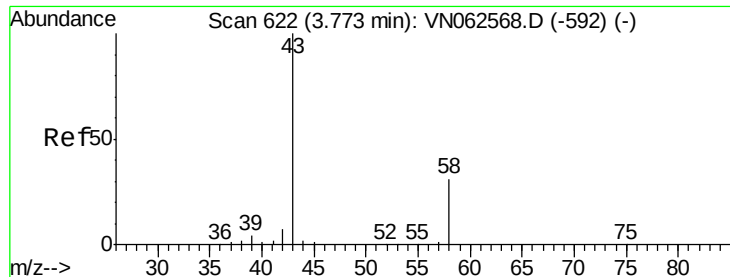
59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN062610.D (-828) (-)





#16

Acetone

Concen: 16.544 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062610.D

Acq: 27 Jul 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

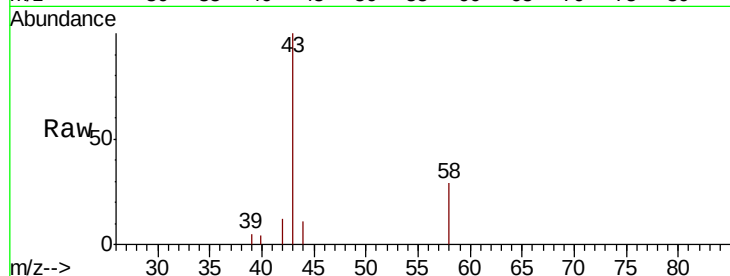
PB130485ZHE#07

Tot Ion: 43 Resp: 13434

Ion Ratio Lower Upper

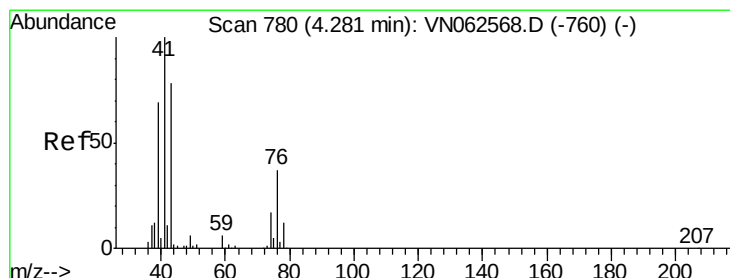
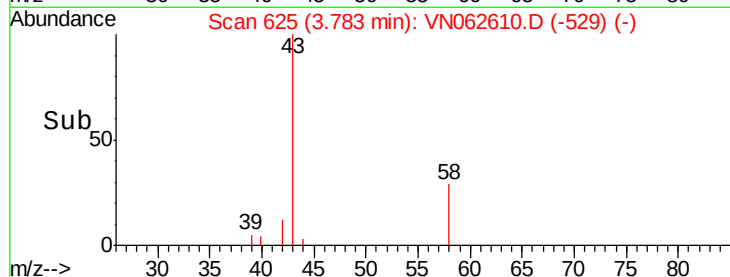
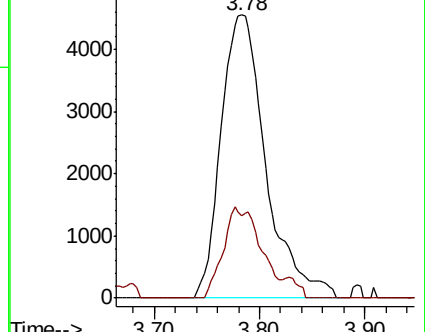
43 100

58 29.3 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN062610.D (-529) (-)

Ion 58.00 (57.70 to 58.70): VN062610.D (-529) (-)



#18

Methyl Acetate

Concen: 0.342 ug/l

RT: 4.28 min Scan# 780

Delta R.T. -0.00 min

Lab File: VN062610.D

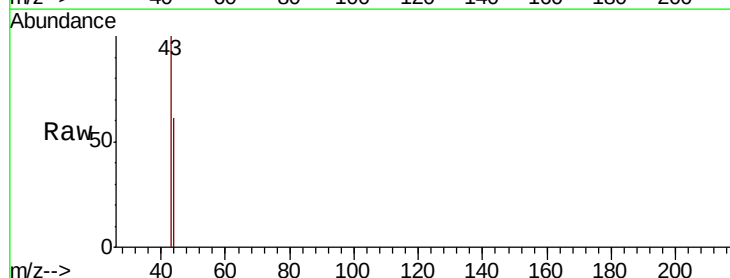
Acq: 27 Jul 2020 19:55

Tgt Ion: 43 Resp: 703

Ion Ratio Lower Upper

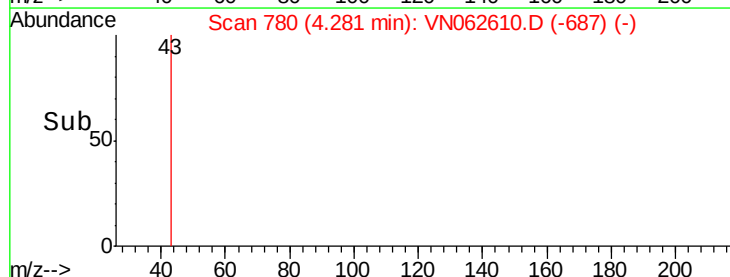
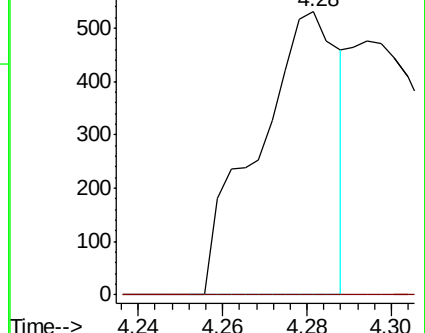
43 100

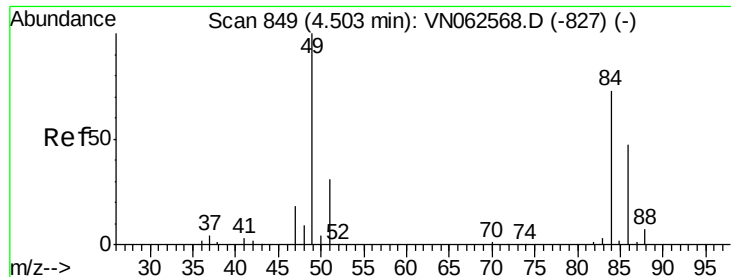
74 0.0 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VN062610.D (-687) (-)

Ion 74.00 (73.70 to 74.70): VN062610.D (-687) (-)

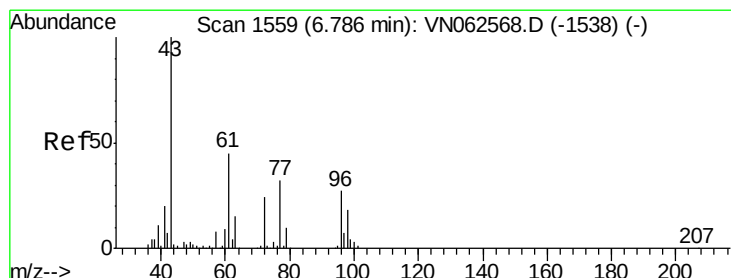
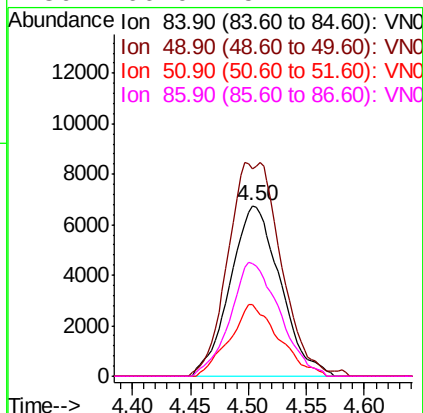
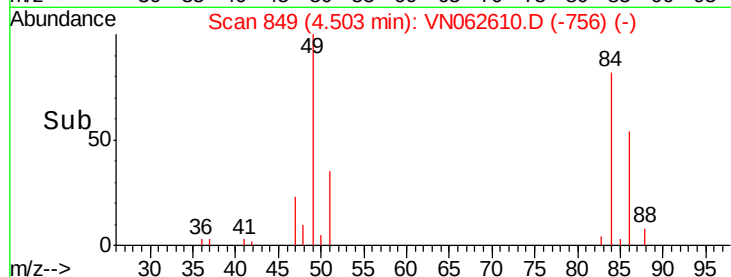
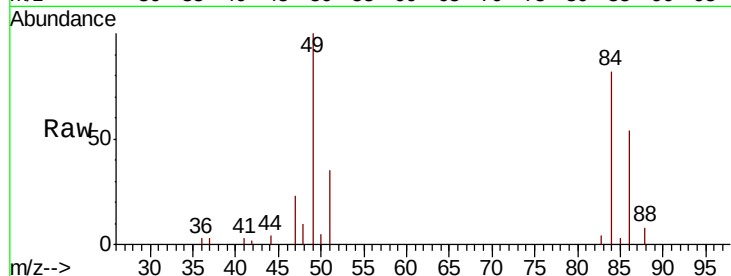




#20
Methvlene Chloride
Concen: 10.388 ug/l
RT: 4.50 min Scan# 849
Delta R.T. -0.00 min
Lab File: VN062610.D
Acq: 27 Jul 2020 19:55

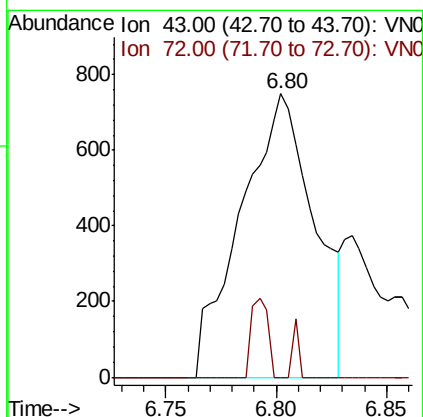
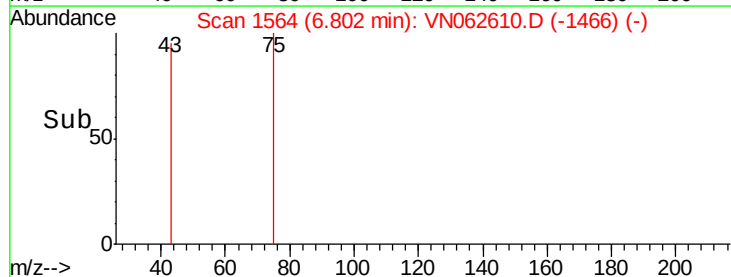
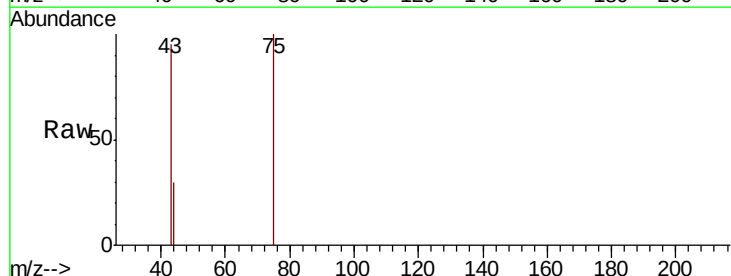
Instrument :
MSVOA_N
ClientSampleId :
PB130485ZHE#07

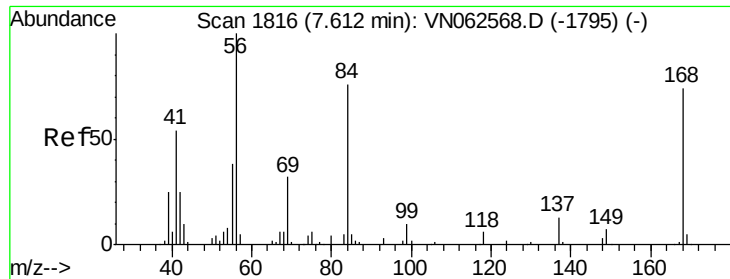
Tot Ion:	84	Resp:	20230
Ion	Ratio	Lower	Upper
84	100		
49	121.3	109.4	164.0
51	42.2	33.6	50.4
86	66.0	51.4	77.2



#25
2-Butanone
Concen: 1.391 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.02 min
Lab File: VN062610.D
Acq: 27 Jul 2020 19:55

Tgt Ion:	43	Resp:	1720
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.0	28.6#

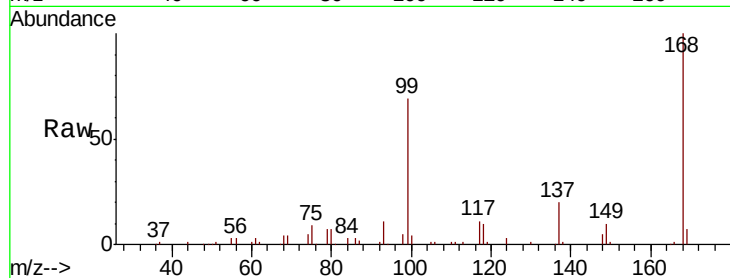




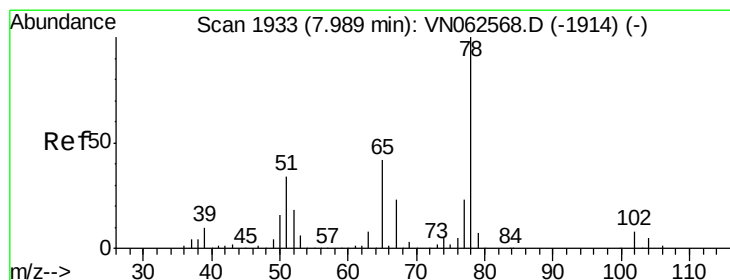
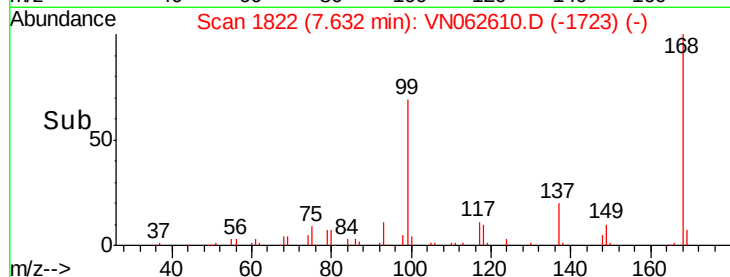
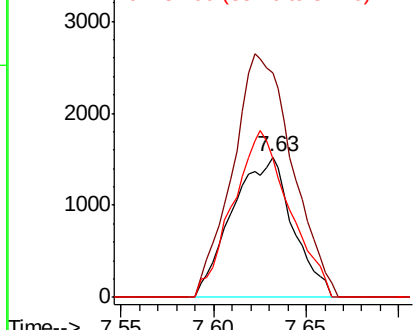
#31
Cyclohexane
Concen: 1.089 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. 0.02 min
Lab File: VN062610.D
Acq: 27 Jul 2020 19:55

Instrument :
MSVOA_N
ClientSampleId :
PB130485ZHE#07

Tot Ion: 56 Resp: 3463
Ion Ratio Lower Upper
56 100
69 159.6 25.3 37.9#
84 99.0 61.0 91.4#

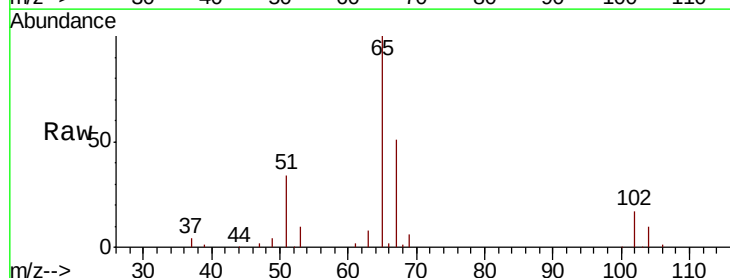


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

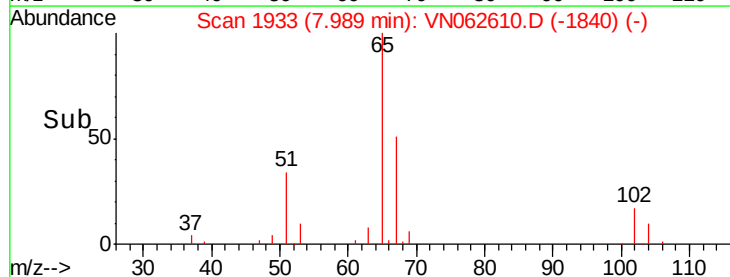
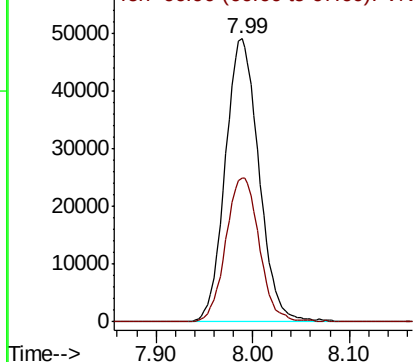


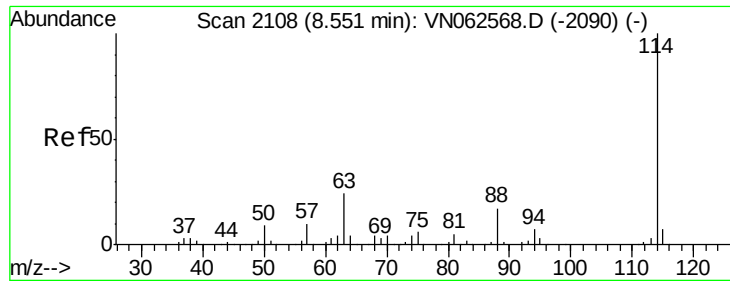
#33
1,2-Dichloroethane-d4
Concen: 54.889 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN062610.D
Acq: 27 Jul 2020 19:55

Tgt Ion: 65 Resp: 118440
Ion Ratio Lower Upper
65 100
67 50.7 0.0 106.0



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

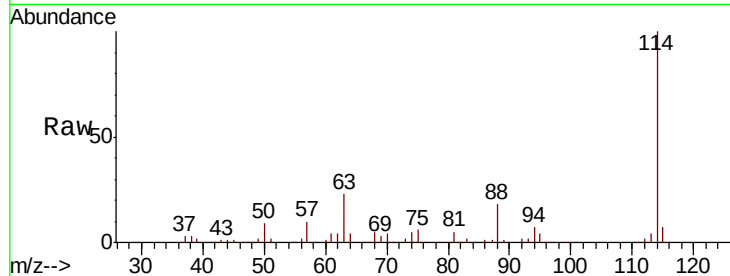




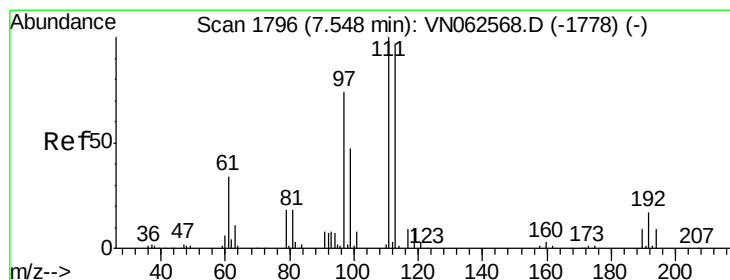
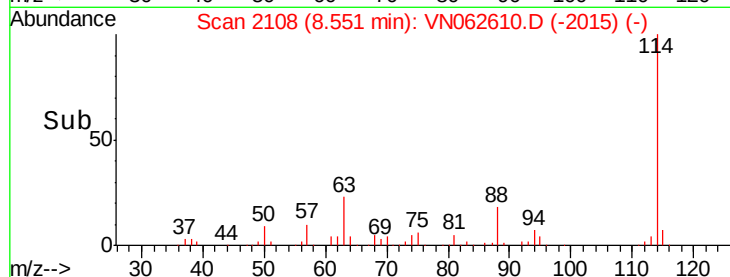
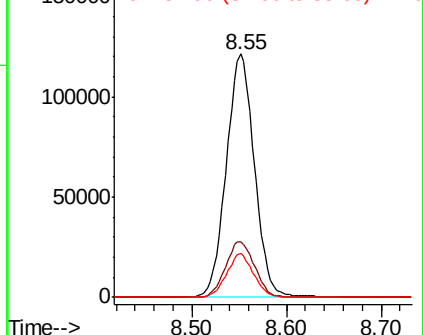
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062610.D
 Acq: 27 Jul 2020 19:55

Instrument :
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 PB130485ZHE#07

Tot Ion:114 Resp: 250968
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 48.4
 88 18.0 0.0 33.8

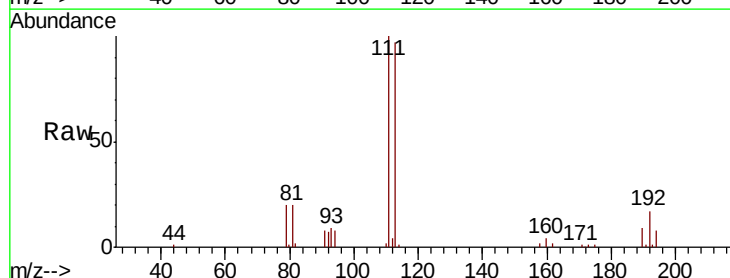


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

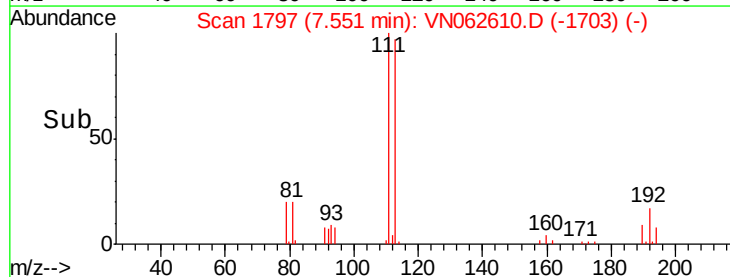
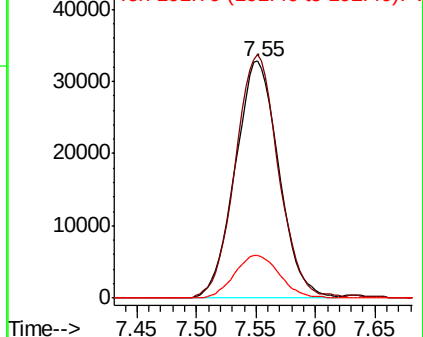


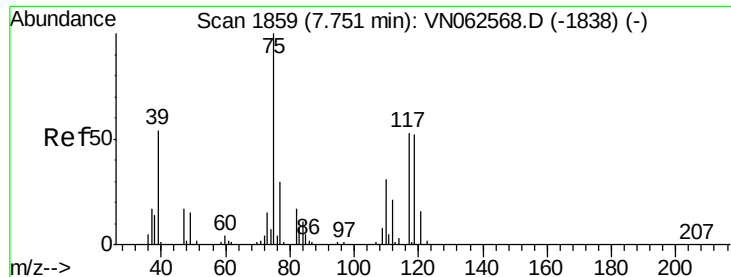
#35
 Dibromofluoromethane
 Concen: 50.607 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062610.D
 Acq: 27 Jul 2020 19:55

Tgt Ion:113 Resp: 83425
 Ion Ratio Lower Upper
 113 100
 111 101.5 82.7 124.1
 192 18.5 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

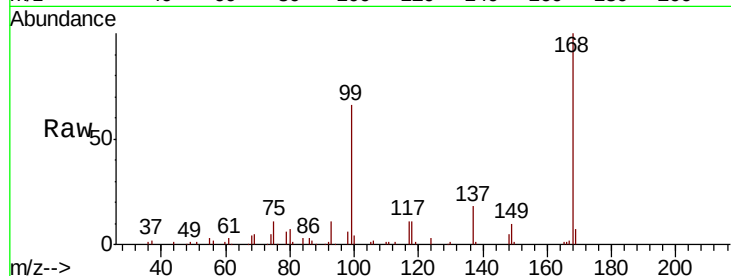




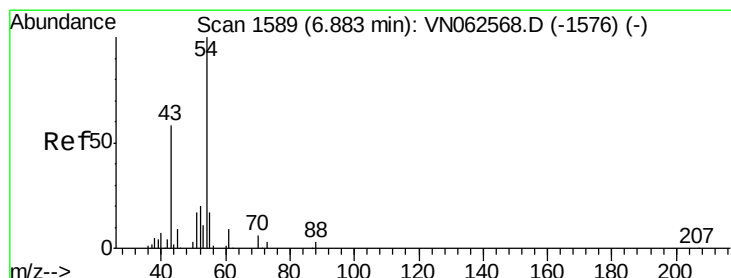
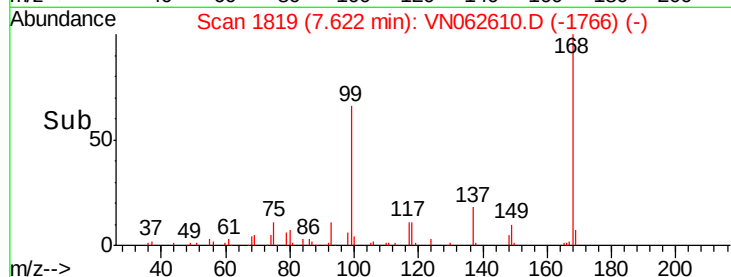
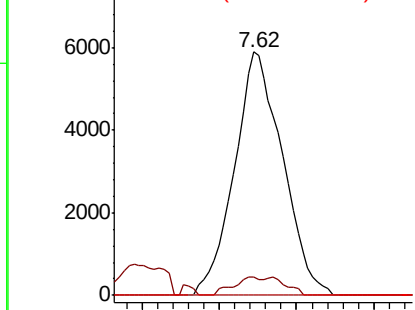
#36
 1,1-Dichloropropene
 Concen: 4.755 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062610.D
 Acq: 27 Jul 2020 19:55

Instrument :
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 PB130485ZHE#07

Tot Ion	Ratio	Lower	Upper
75	100		
110	4.6	16.0	48.0#
77	0.0	24.6	36.8#

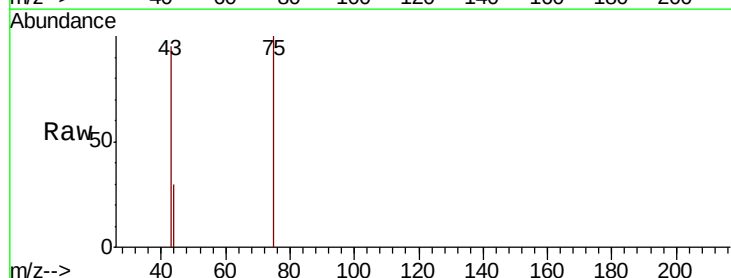


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

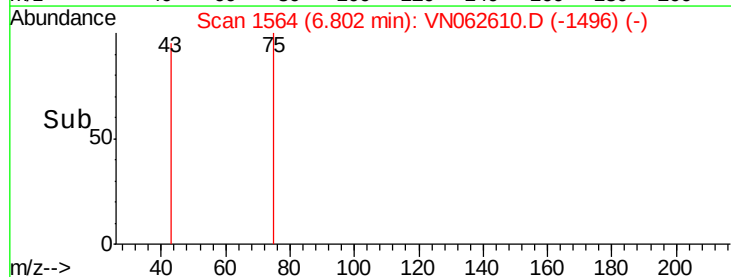
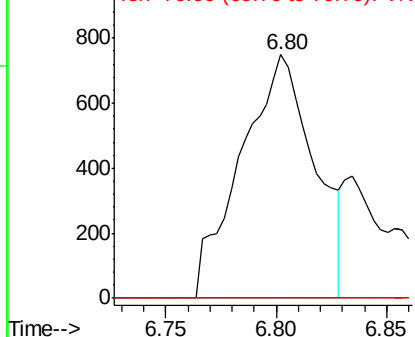


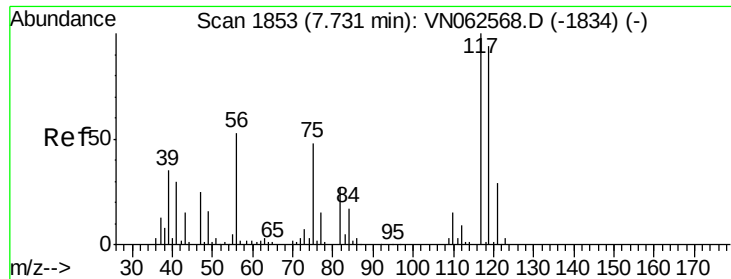
#37
 Ethyl Acetate
 Concen: 0.596 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.08 min
 Lab File: VN062610.D
 Acq: 27 Jul 2020 19:55

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.3	16.9#
70	0.0	7.7	11.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.824 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062610.D

Acq: 27 Jul 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

PB130485ZHE#07

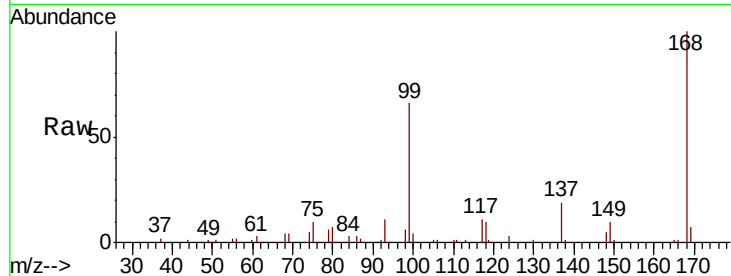
Tot Ion:117 Resp: 14976

Ion Ratio Lower Upper

117 100

119 5.4 74.8 112.2#

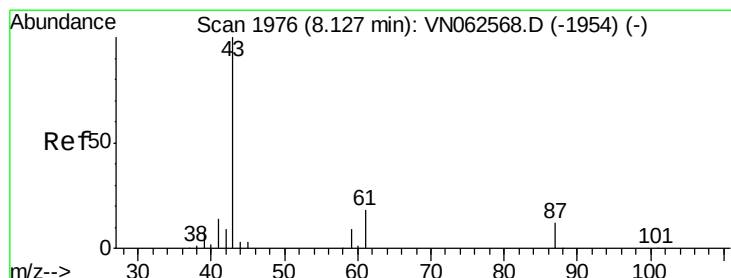
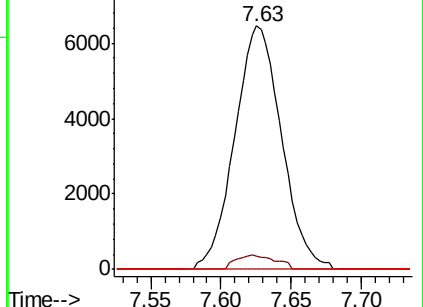
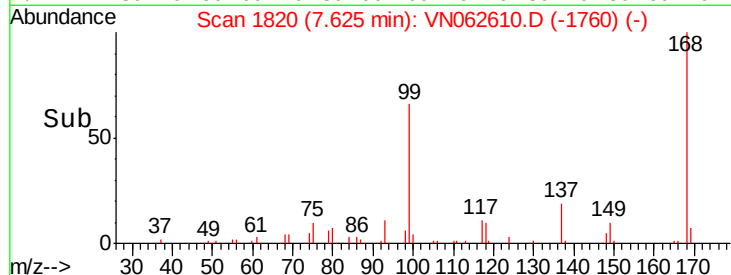
121 0.0 23.0 34.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 8.000 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062610.D

Acq: 27 Jul 2020 19:55

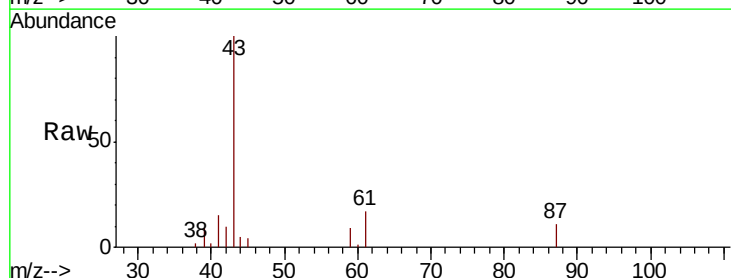
Tgt Ion: 43 Resp: 37189

Ion Ratio Lower Upper

43 100

61 17.8 20.8 31.2#

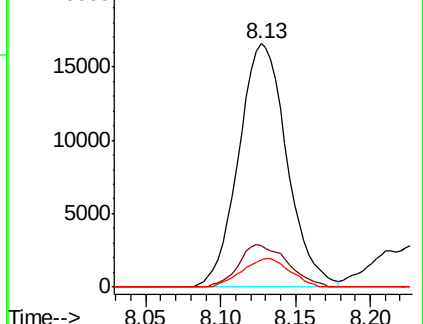
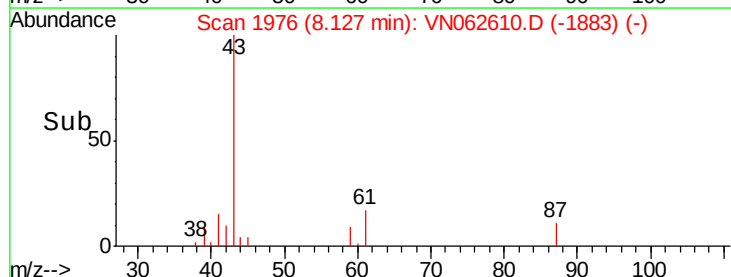
87 11.6 9.2 13.8

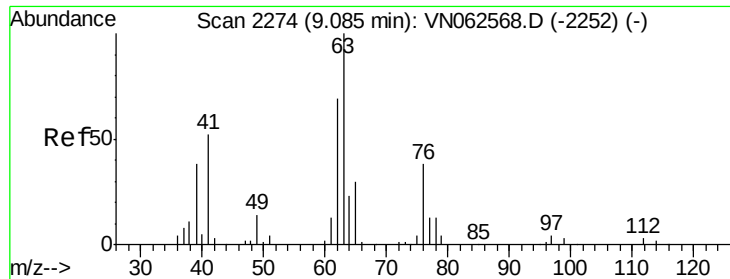


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

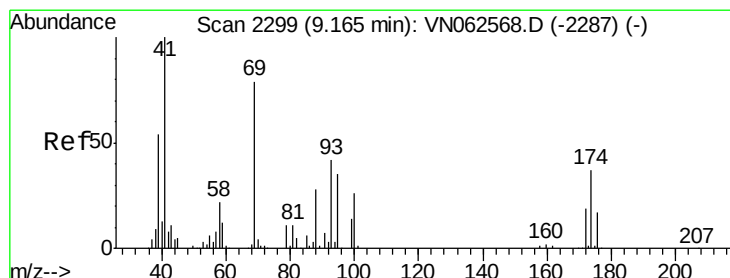
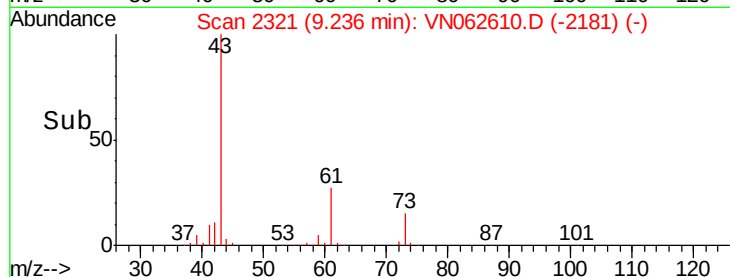
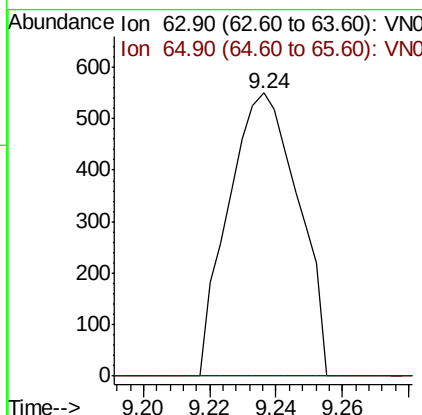
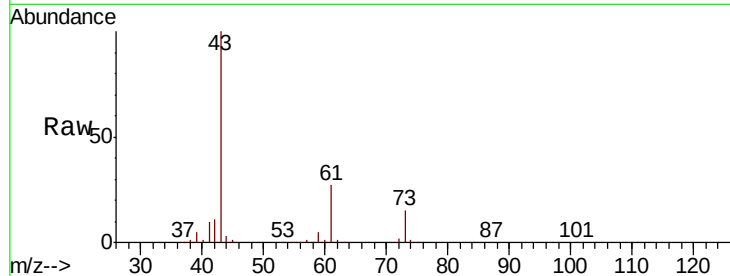




#45
 1,2-Dichloropropane
 Concen: 0.353 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.15 min
 Lab File: VN062610.D
 Acq: 27 Jul 2020 19:55

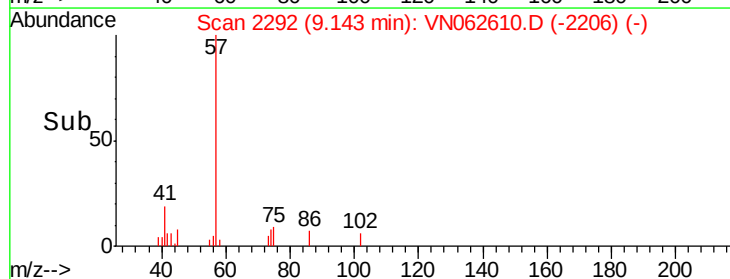
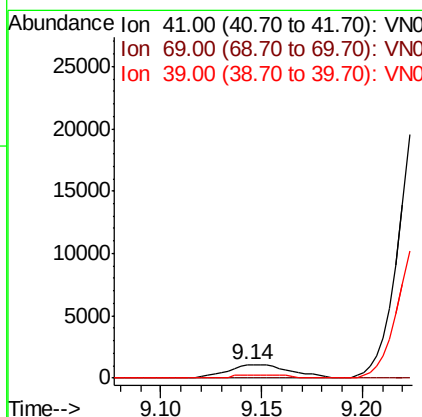
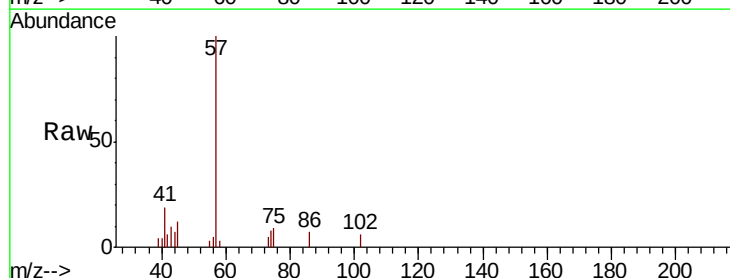
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130485ZHE#07

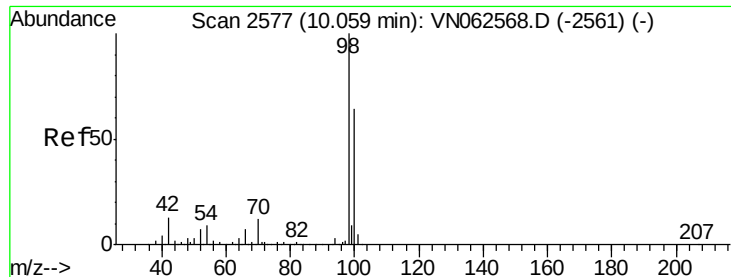
Tot Ion: 63 Resp: 803
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.061 ug/l
 RT: 9.14 min Scan# 2292
 Delta R.T. -0.02 min
 Lab File: VN062610.D
 Acq: 27 Jul 2020 19:55

Tgt Ion: 41 Resp: 2344
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 43.5 65.3#





#50

Toluene-d8

Concen: 49.804 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062610.D

Acq: 27 Jul 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

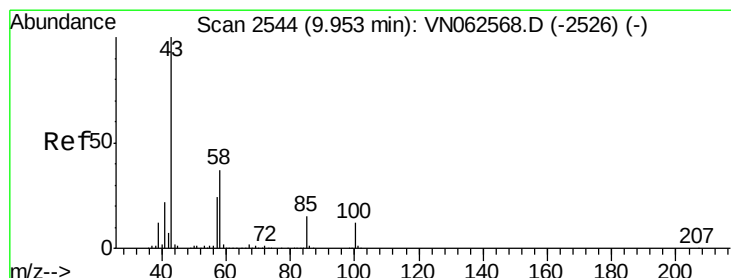
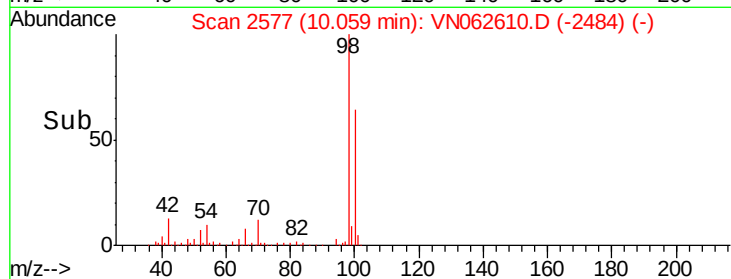
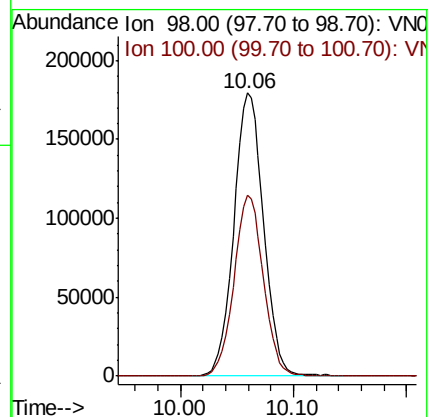
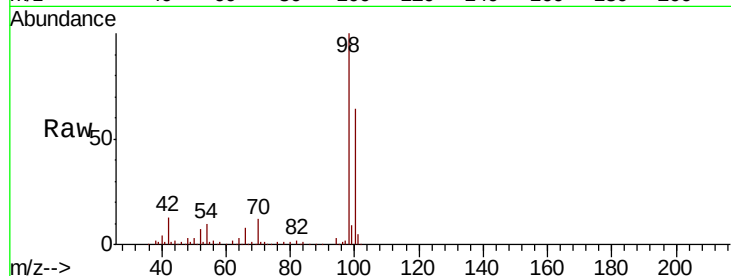
PB130485ZHE#07

Tot Ion: 98 Resp: 327584

Ion Ratio Lower Upper

98 100

100 63.0 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 1.630 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062610.D

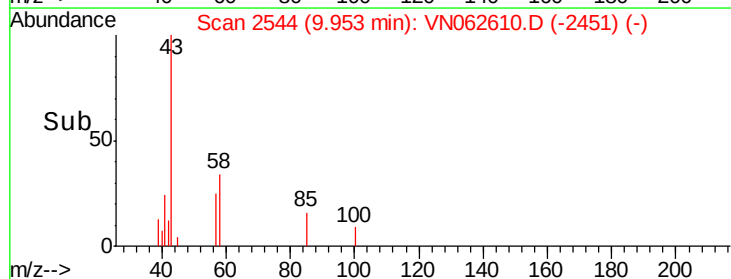
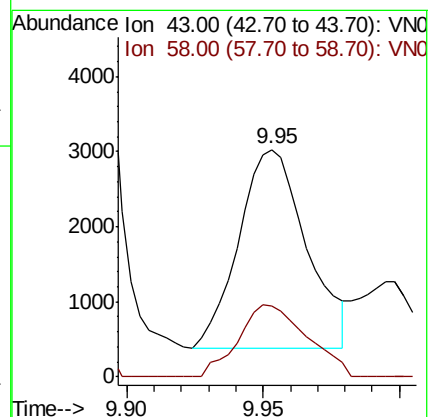
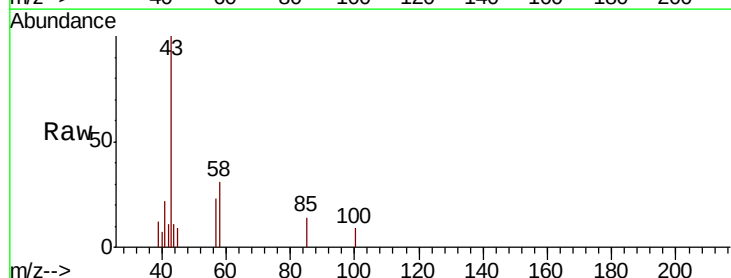
Acq: 27 Jul 2020 19:55

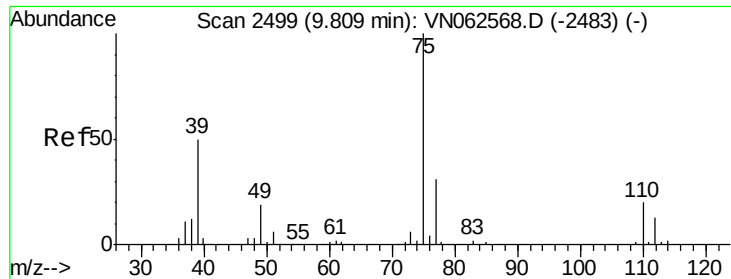
Tgt Ion: 43 Resp: 4535

Ion Ratio Lower Upper

43 100

58 36.9 29.8 44.6





#54

cis-1,3-Dichloropropene

Concen: 4.276 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062610.D

Acq: 27 Jul 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

PB130485ZHE#07

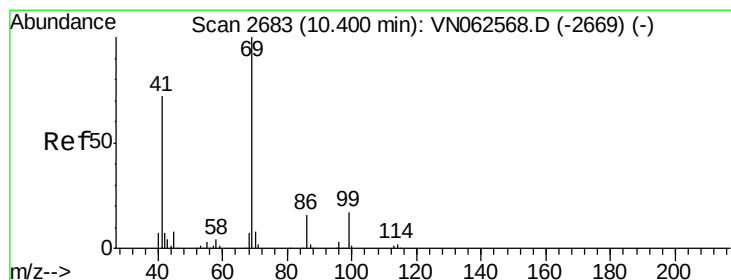
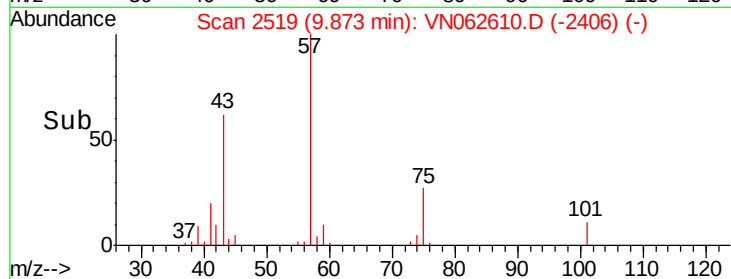
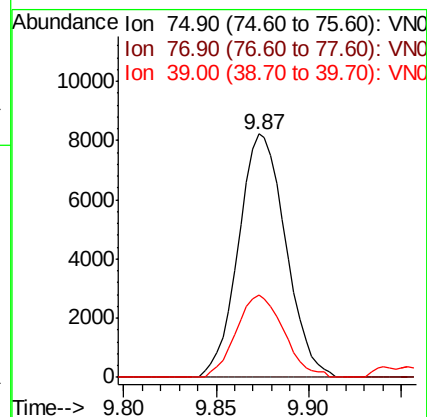
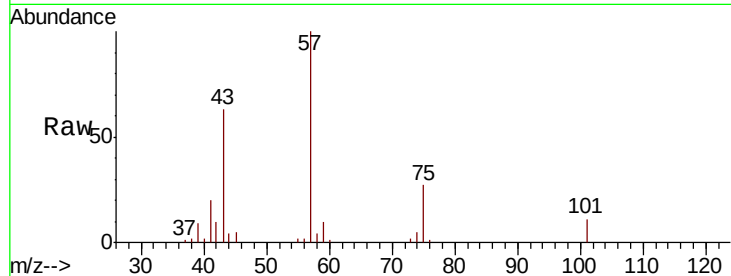
Tot Ion: 75 Resp: 14543

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 33.6 39.8 59.8#



#56

Ethyl methacrylate

Concen: 1.951 ug/l

RT: 10.52 min Scan# 2720

Delta R.T. 0.12 min

Lab File: VN062610.D

Acq: 27 Jul 2020 19:55

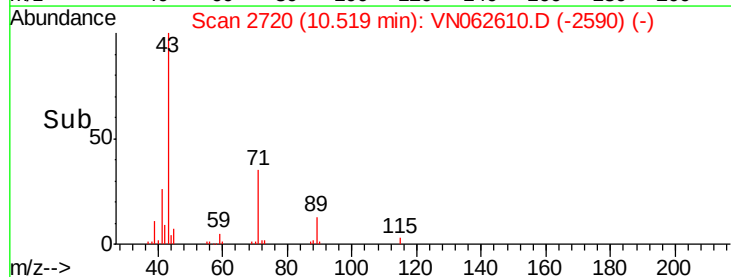
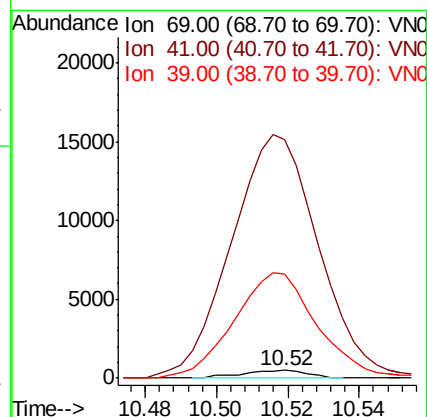
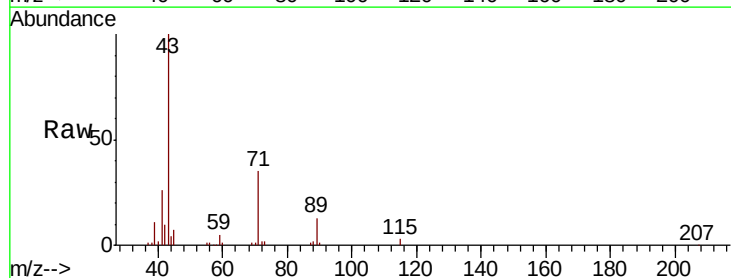
Tgt Ion: 69 Resp: 618

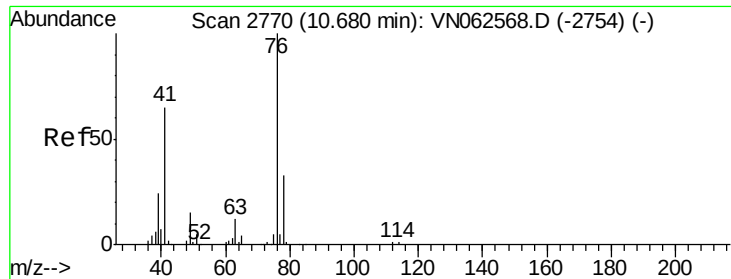
Ion Ratio Lower Upper

69 100

41 4229.4 57.2 85.8#

39 1757.9 28.6 43.0#

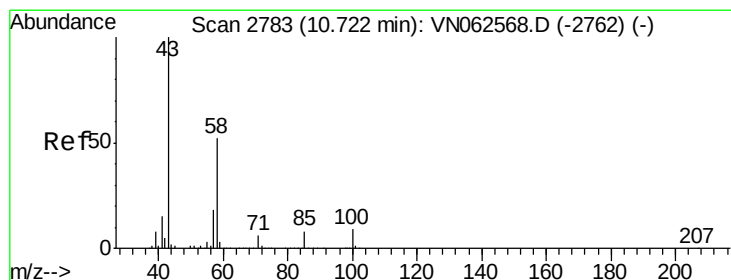
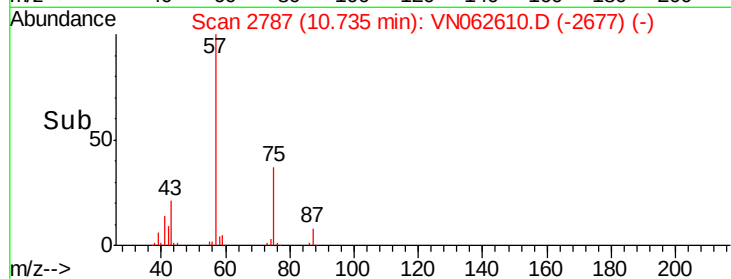
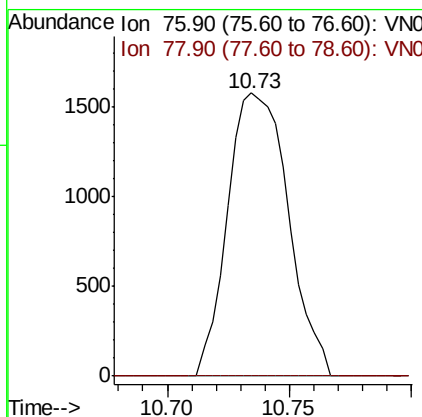
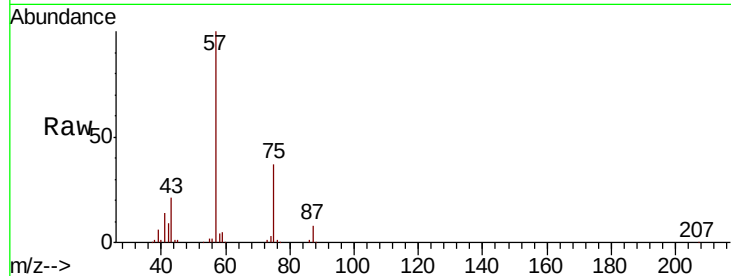




#57
 1,3-Dichloropropane
 Concen: 0.813 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.05 min
 Lab File: VN062610.D
 Acq: 27 Jul 2020 19:55

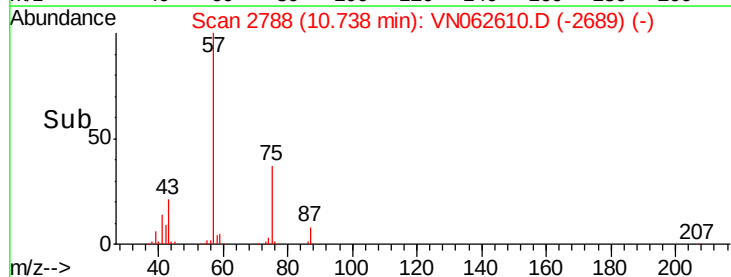
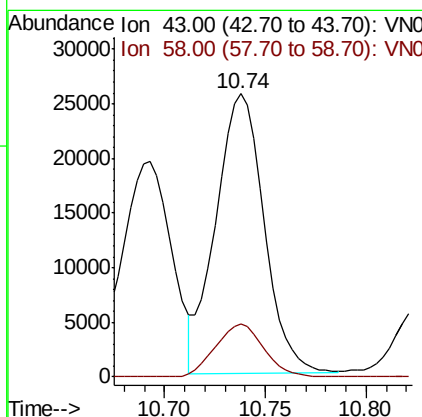
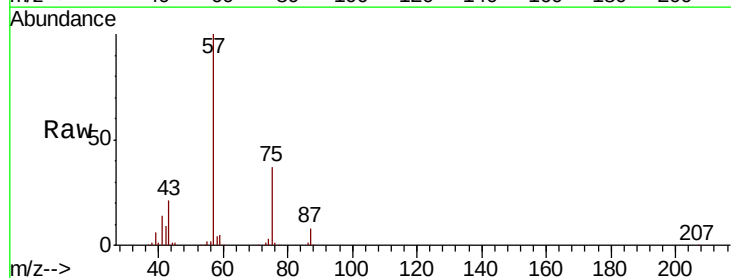
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130485ZHE#07

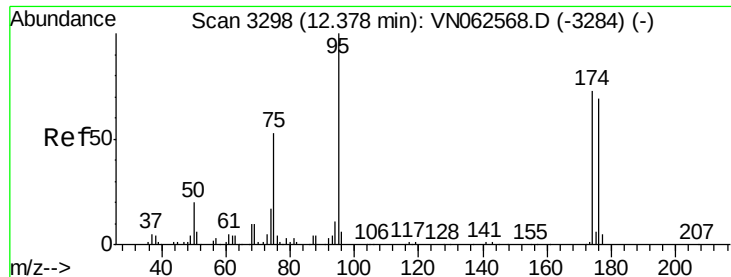
Tot Ion: 76 Resp: 2716
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 22.623 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062610.D
 Acq: 27 Jul 2020 19:55

Tgt Ion: 43 Resp: 42804
 Ion Ratio Lower Upper
 43 100
 58 18.8 26.0 78.0#





#62

4-Bromofluorobenzene

Concen: 52.623 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062610.D

Acq: 27 Jul 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

PB130485ZHE#07

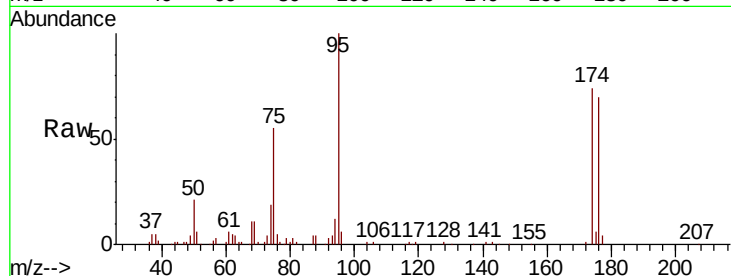
Tot Ion: 95 Resp: 126558

Ion Ratio Lower Upper

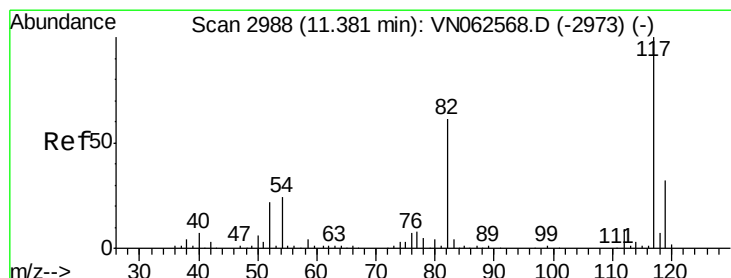
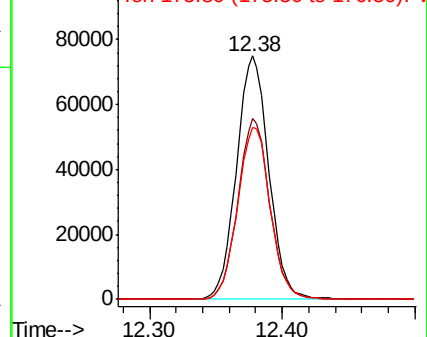
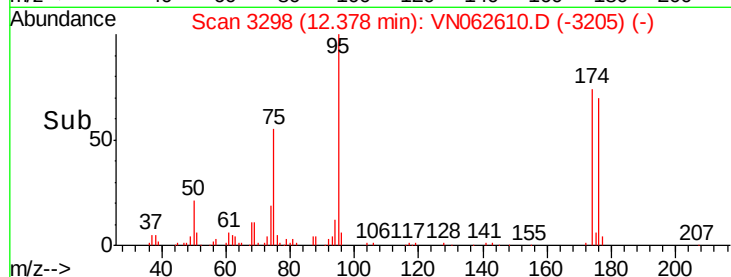
95 100

174 73.4 0.0 144.6

176 71.6 0.0 139.4



Abundance Ion 94.90 (94.60 to 95.60): VN062610.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062610.D

Acq: 27 Jul 2020 19:55

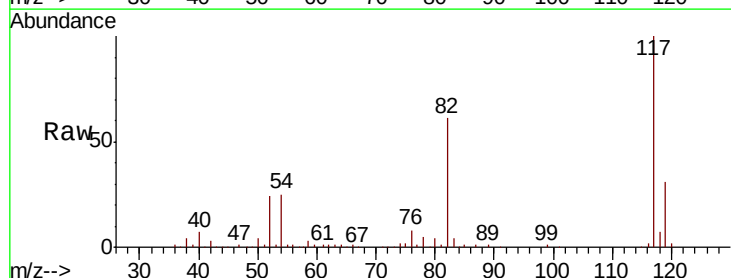
Tgt Ion: 117 Resp: 253154

Ion Ratio Lower Upper

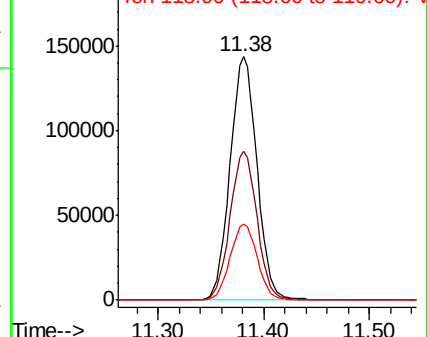
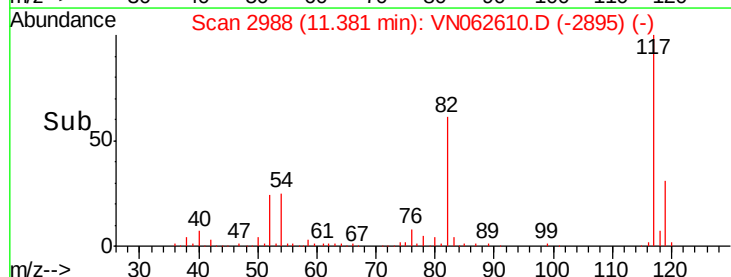
117 100

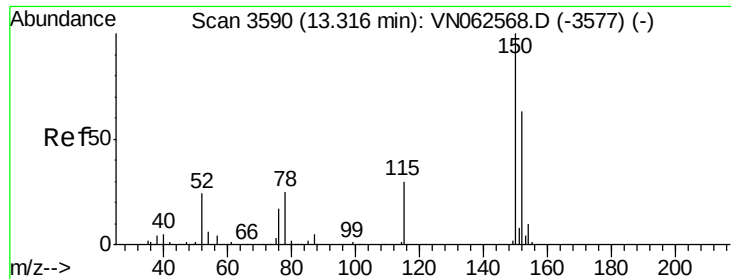
82 61.0 49.0 73.6

119 31.0 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): VN062610.D (-2895) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062610.D

Acq: 27 Jul 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

PB130485ZHE#07

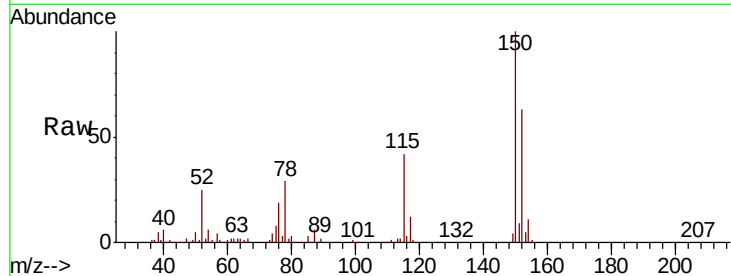
Tot Ion:152 Resp: 105473

Ion Ratio Lower Upper

152 100

115 64.7 31.8 95.4

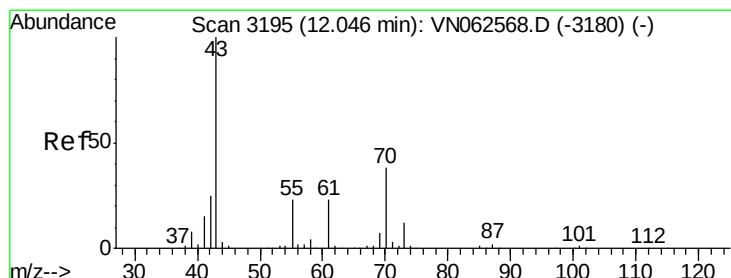
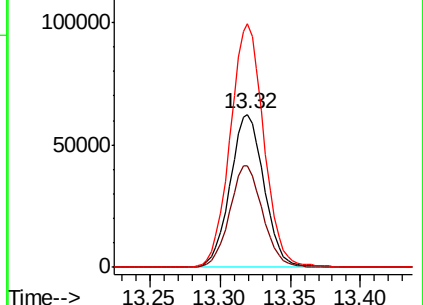
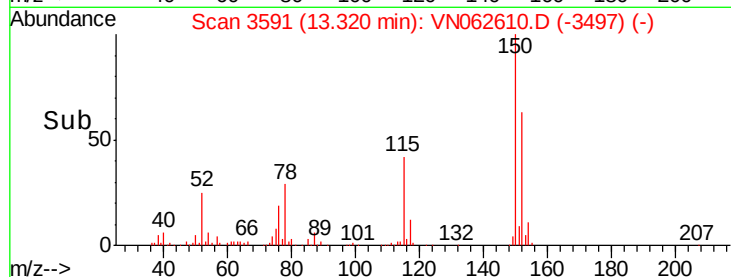
150 157.4 0.0 351.4



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-ethyl acetate

Concen: 0.476 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN062610.D

Acq: 27 Jul 2020 19:55

Tgt Ion: 43 Resp: 1772

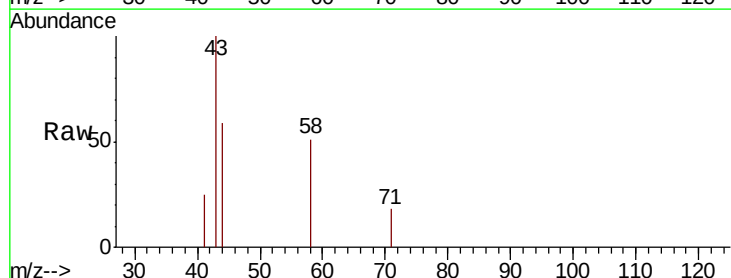
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 0.0 19.0 28.6#

61 0.0 18.4 27.6#

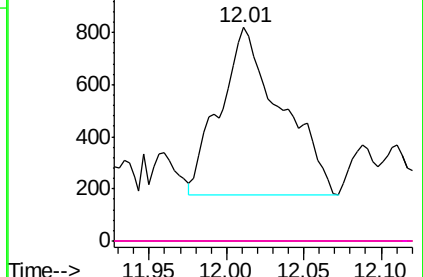
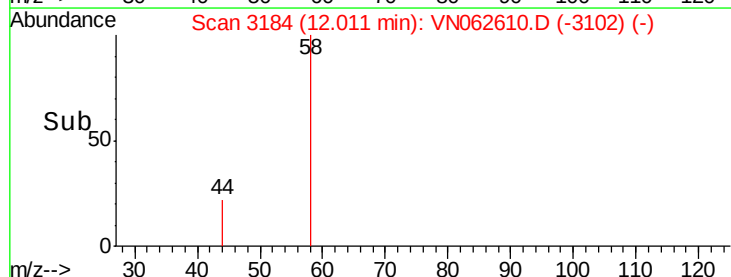


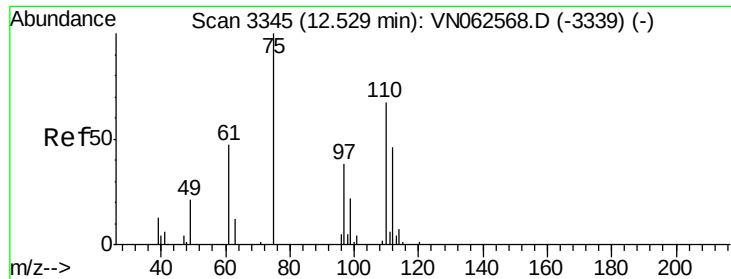
Abundance Ion 43.00 (42.70 to 43.70): V

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

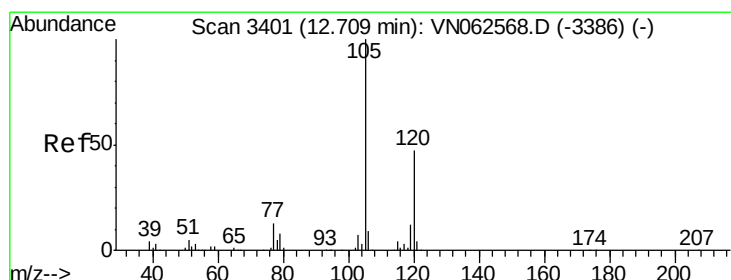
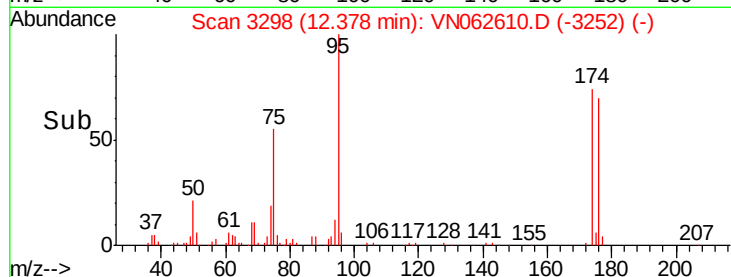
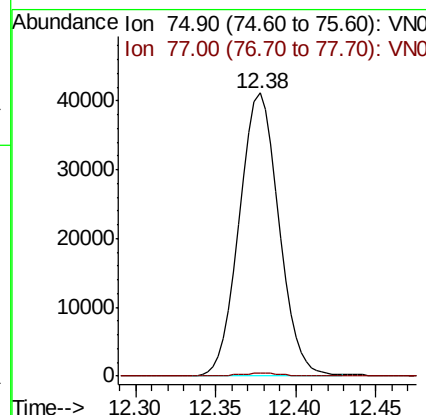
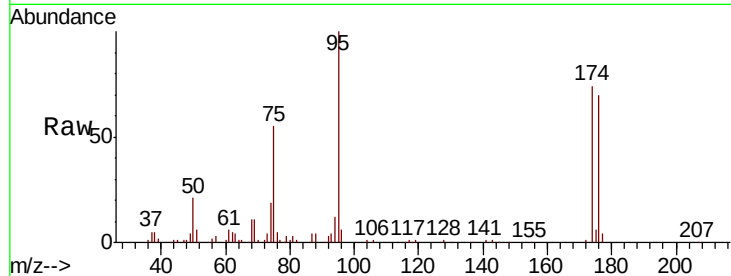




#76
 1,2,3-Trichloropropane
 Concen: 25.866 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062610.D
 Acq: 27 Jul 2020 19:55

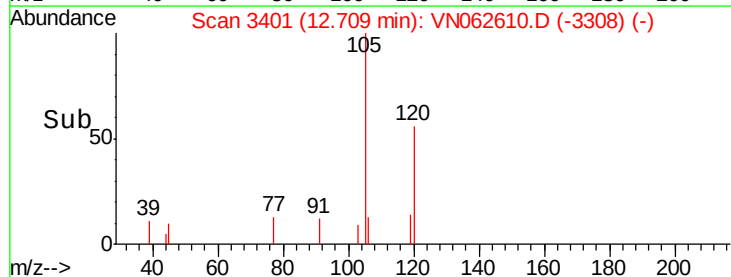
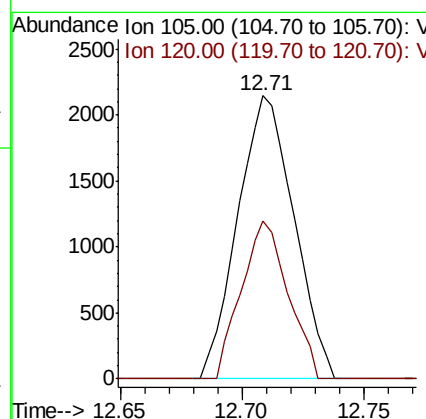
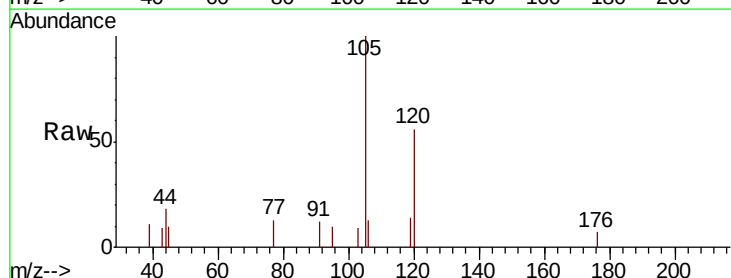
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130485ZHE#07

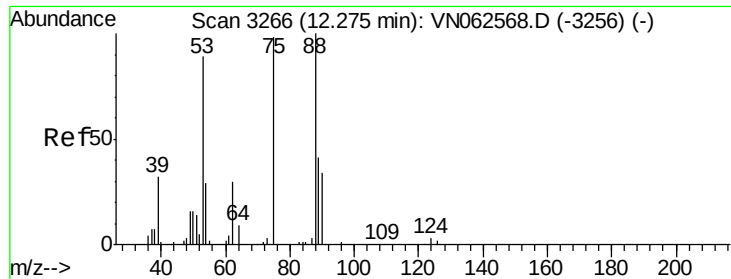
Tot Ion: 75 Resp: 69442
 Ion Ratio Lower Upper
 75 100
 77 0.9 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.496 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. -0.00 min
 Lab File: VN062610.D
 Acq: 27 Jul 2020 19:55

Tgt Ion: 105 Resp: 3428
 Ion Ratio Lower Upper
 105 100
 120 46.2 23.2 69.6





#81

trans-1,4-Dichloro-2-butene

Concen: 72.005 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062610.D

Acq: 27 Jul 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

PB130485ZHE#07

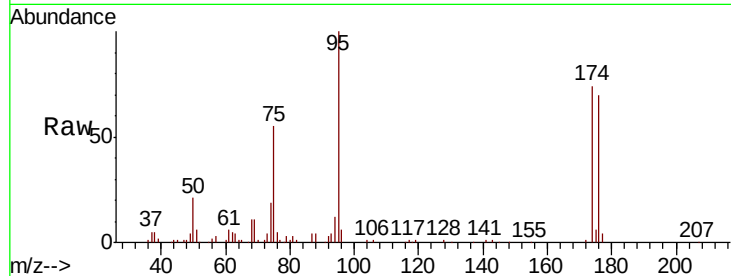
Tot Ion: 75 Resp: 69442

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

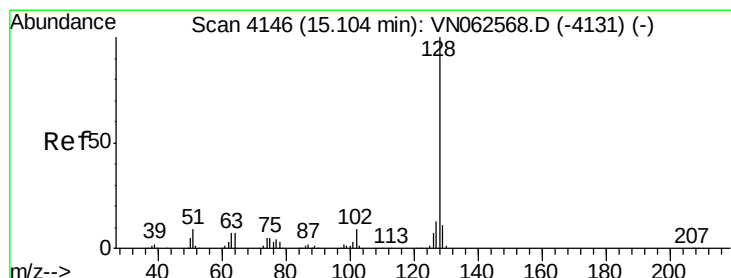
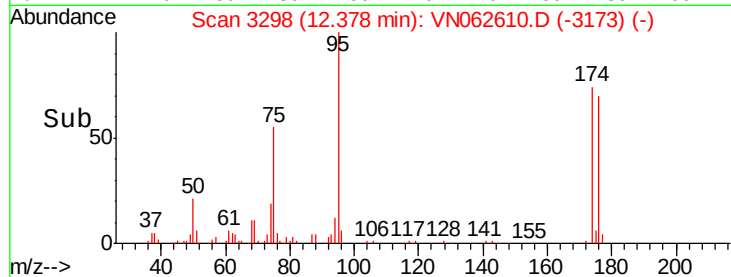
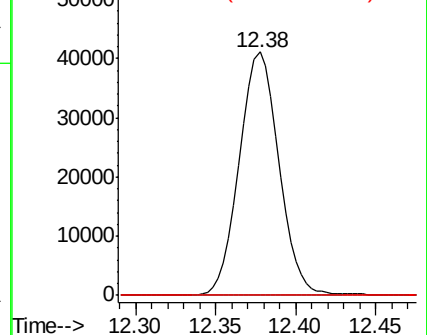
89 0.0 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VN062610.D (-3173) (-)

Ion 53.00 (52.70 to 53.70): VN062610.D (-3173) (-)

Ion 88.90 (88.60 to 89.60): VN062610.D (-3173) (-)



#95

Naphthalene

Concen: 3.794 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062610.D

Acq: 27 Jul 2020 19:55

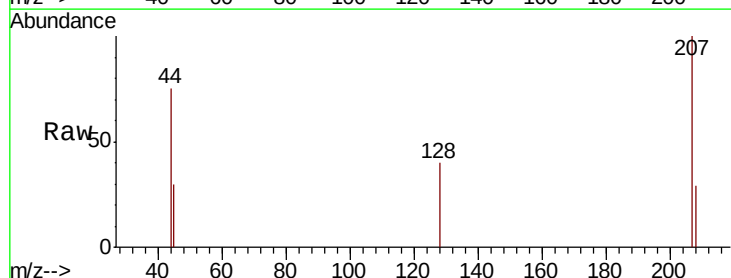
Tgt Ion: 128 Resp: 166

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): VN062610.D (-4053) (-)

Ion 127.00 (126.70 to 127.70): VN062610.D (-4053) (-)

Ion 129.00 (128.70 to 129.70): VN062610.D (-4053) (-)

