

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031920\
 Data File : VN060635.D
 Acq On : 19 Mar 2020 14:37
 Operator : JC/MD
 Sample : PB127661ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127661ZHE#07

Quant Time: Mar 20 01:49:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	188424	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	315872	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	293793	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	130958	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	124468	48.12	ug/l	0.00
Spiked Amount						
			Recovery	=	96.24%	
35) Dibromofluoromethane	7.57	113	93318	48.86	ug/l	0.00
Spiked Amount						
			Recovery	=	97.72%	
50) Toluene-d8	10.08	98	388516	49.80	ug/l	0.00
Spiked Amount						
			Recovery	=	99.60%	
62) 4-Bromofluorobenzene	12.40	95	144036	50.38	ug/l	0.00
Spiked Amount						
			Recovery	=	100.76%	

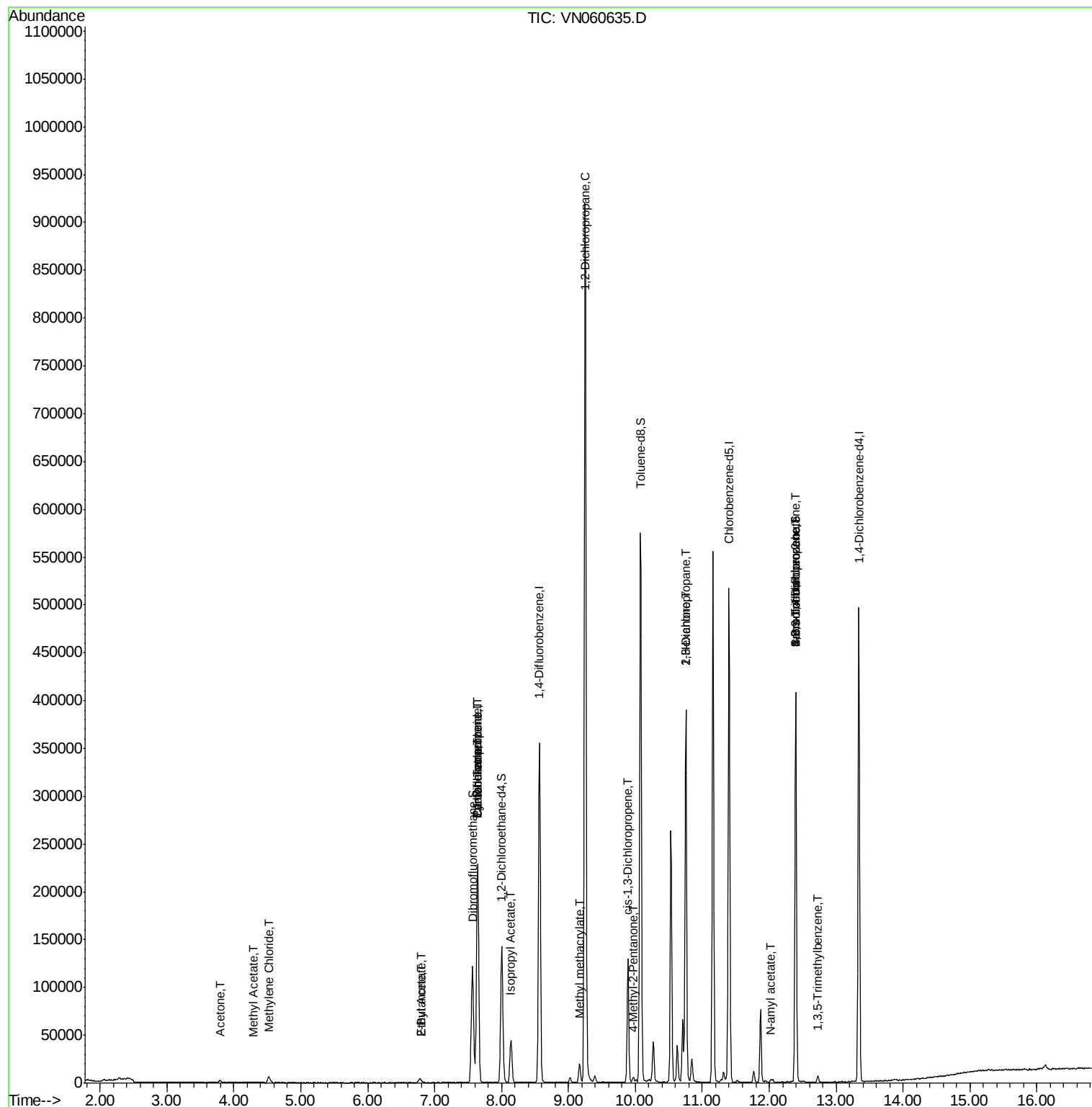
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	4392	4.794	ug/l	100
18) Methyl Acetate	4.31	43	1654	0.641	ug/l #	54
20) Methylene Chloride	4.52	84	4774	2.118	ug/l	88
25) 2-Butanone	6.82	43	700	0.472	ug/l #	50
31) Cyclohexane	7.64	56	3935	0.945	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14508	4.743	ug/l #	51
37) Ethyl Acetate	6.82	43	700	0.212	ug/l #	70
38) Carbon Tetrachloride	7.64	117	18490	6.745	ug/l #	16
43) Isopropyl Acetate	8.14	43	54701	10.036	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1016	0.417	ug/l #	43
48) Methyl methacrylate	9.16	41	2937	1.210	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	3309	1.067	ug/l	98
54) cis-1,3-Dichloropropene	9.89	75	22939	5.947	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3861	1.037	ug/l #	42
59) 2-Hexanone	10.75	43	57685	25.819	ug/l #	52
71) Bromoform	12.39	173	188	1.784	ug/l #	29
74) N-amyl acetate	12.02	43	2724	0.600	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	73146	25.885	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4287	0.514	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.39	75	73146	66.480	ug/l #	13

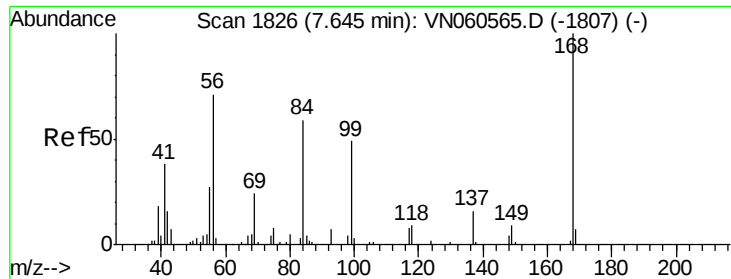
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

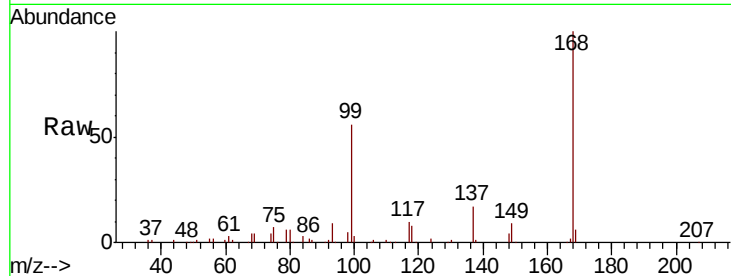
PB127661ZHE#07

Tot Ion:168 Resp: 188424

Ion Ratio Lower Upper

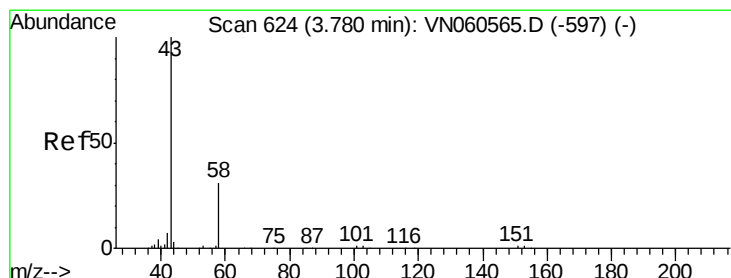
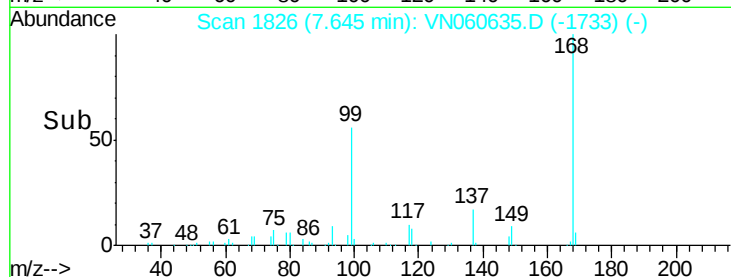
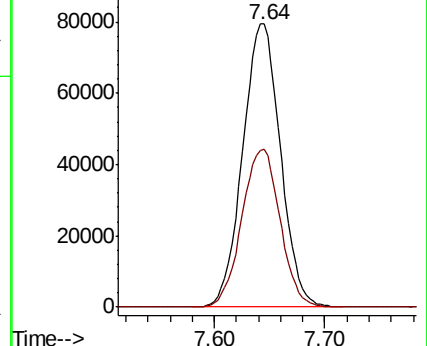
168 100

99 55.7 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 4.794 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060635.D

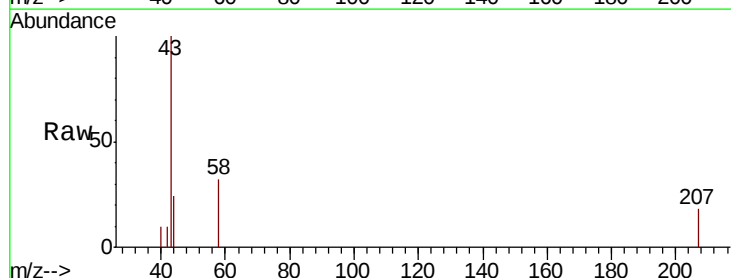
Acq: 19 Mar 2020 14:37

Tgt Ion: 43 Resp: 4392

Ion Ratio Lower Upper

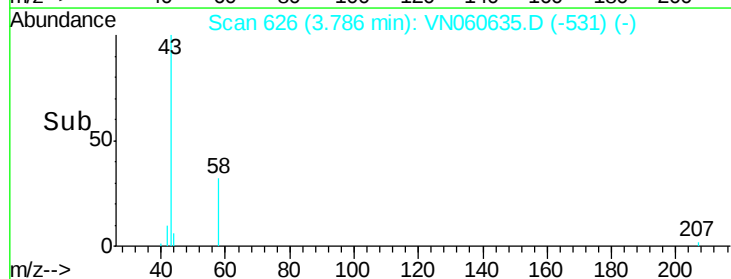
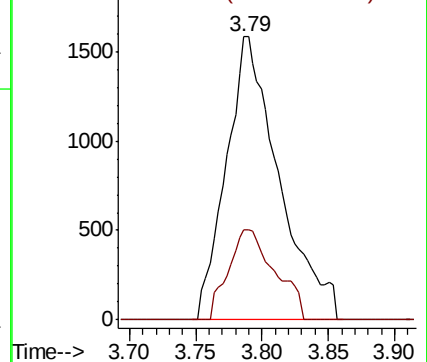
43 100

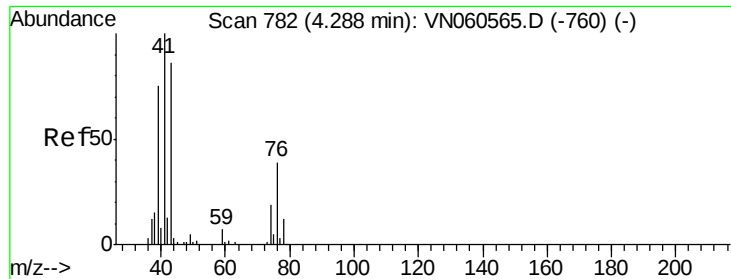
58 31.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

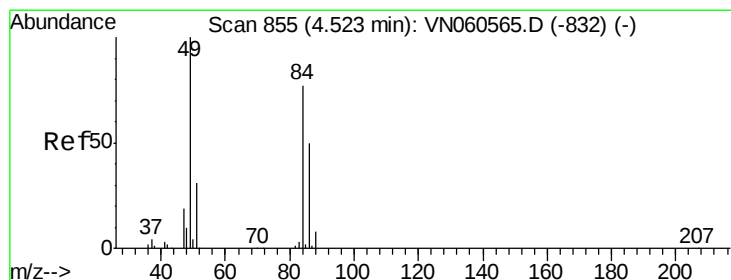
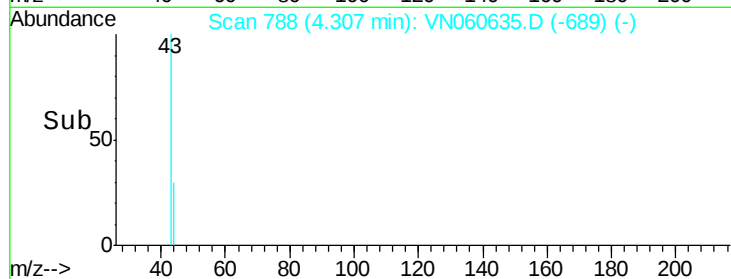
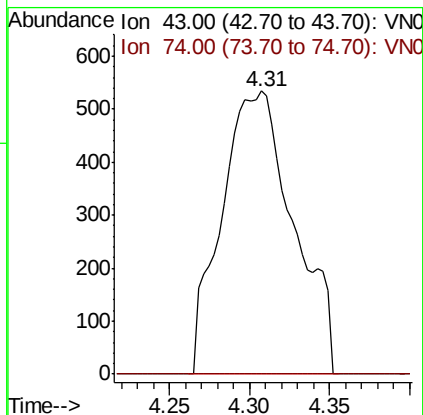
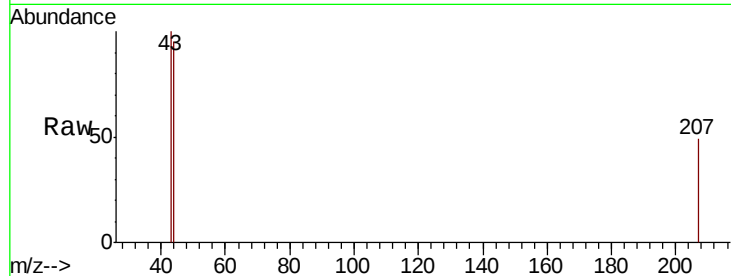




#18
Methyl Acetate
Concen: 0.641 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.02 min
Lab File: VN060635.D
Acq: 19 Mar 2020 14:37

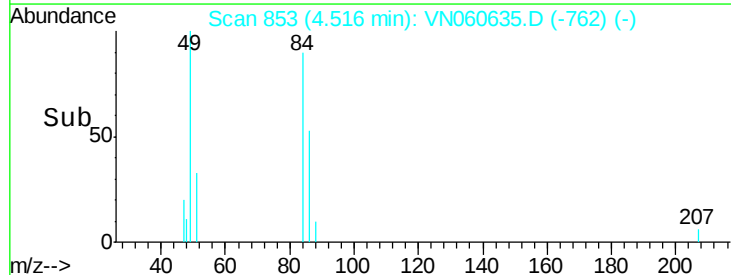
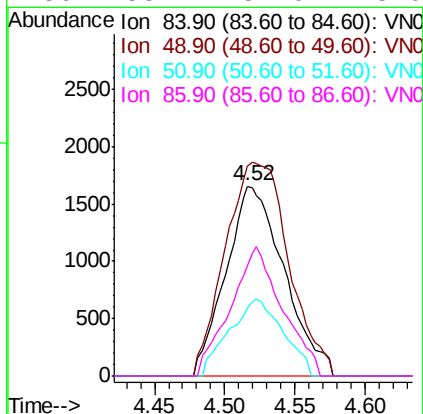
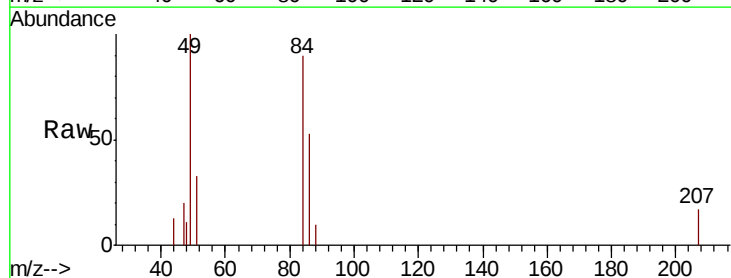
Instrument :
MSVOA_N
ClientSampleId :
PB127661ZHE#07

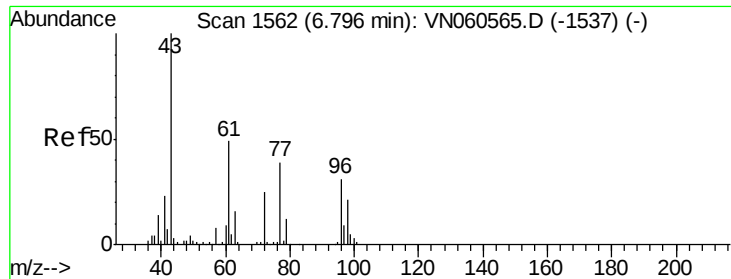
Tot Ion: 43 Resp: 1654
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 2.118 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN060635.D
Acq: 19 Mar 2020 14:37

Tgt Ion: 84 Resp: 4774
Ion Ratio Lower Upper
84 100
49 110.6 103.3 154.9
51 36.1 31.6 47.4
86 58.1 52.0 78.0





#25

2-Butanone

Concen: 0.472 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.02 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

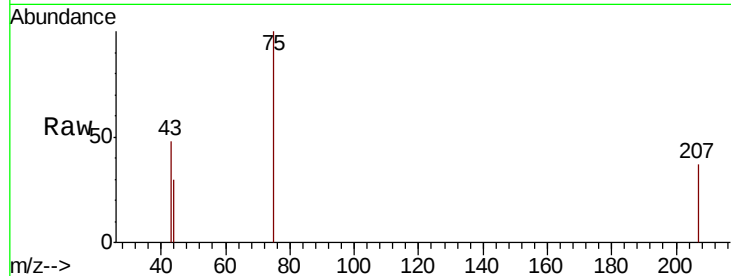
PB127661ZHE#07

Tot Ion: 43 Resp: 700

Ion Ratio Lower Upper

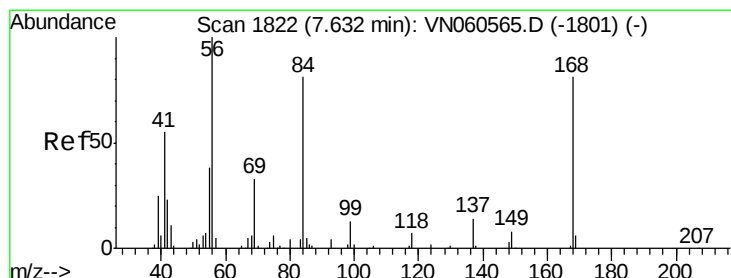
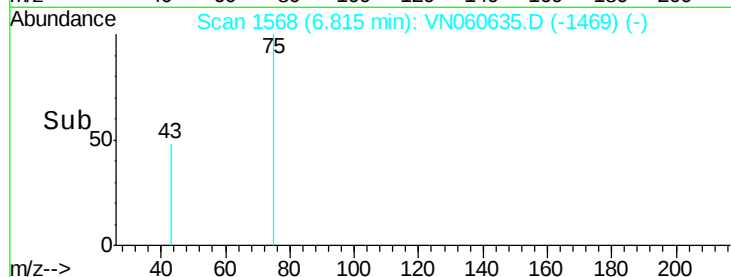
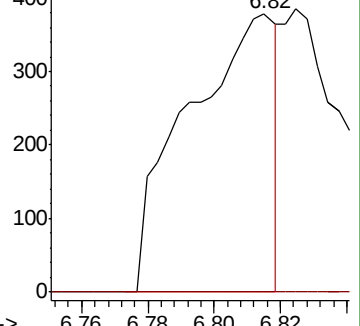
43 100

72 0.0 20.4 30.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 0.945 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

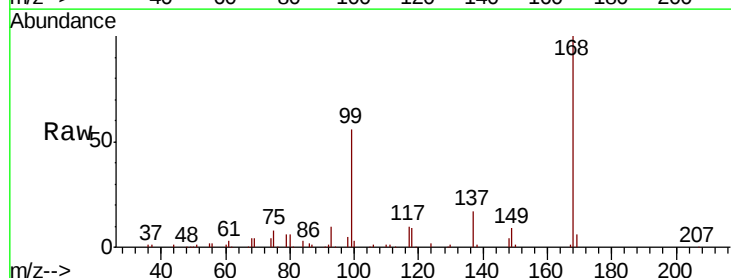
Tgt Ion: 56 Resp: 3935

Ion Ratio Lower Upper

56 100

69 177.8 26.6 40.0#

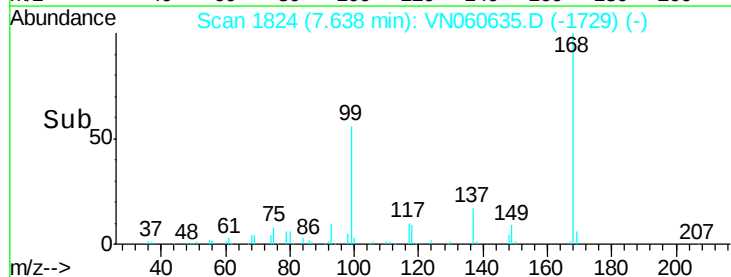
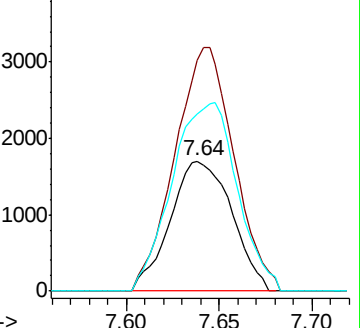
84 136.3 64.3 96.5#

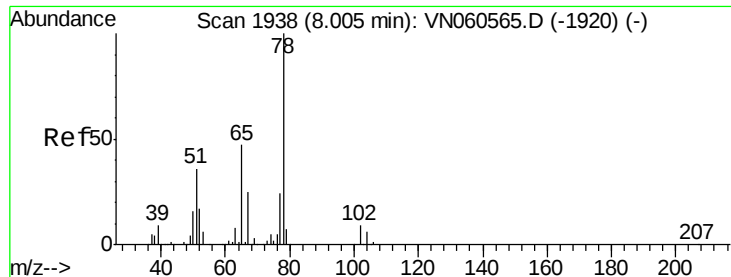


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

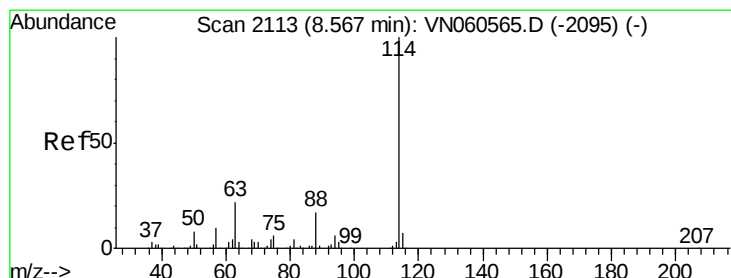
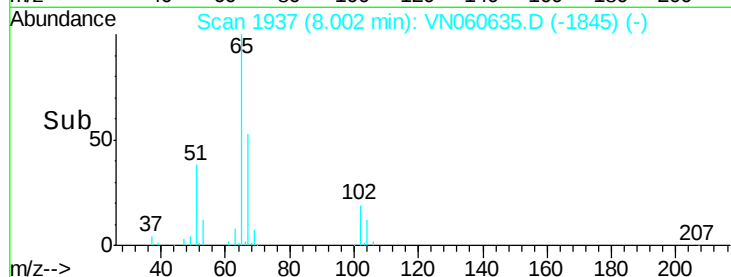
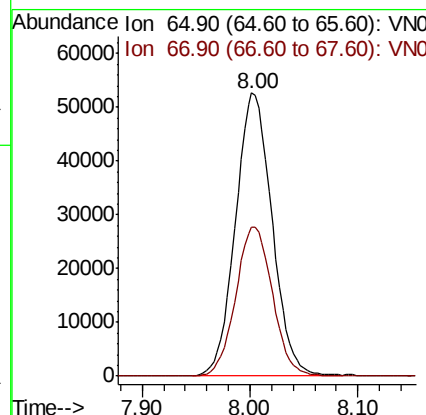
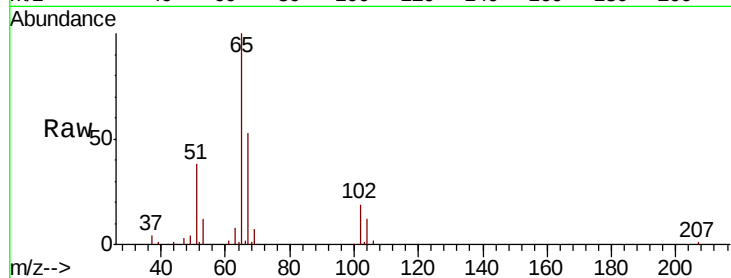




#33
 1,2-Dichloroethane-d4
 Concen: 48.120 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060635.D
 Acq: 19 Mar 2020 14:37

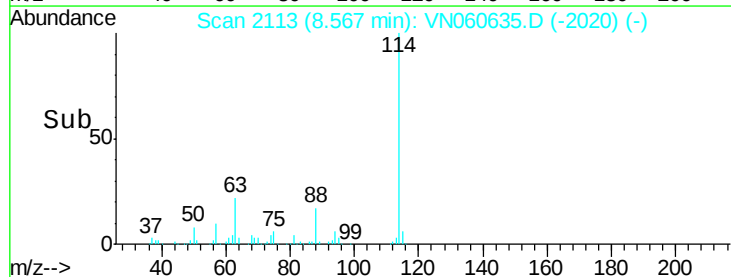
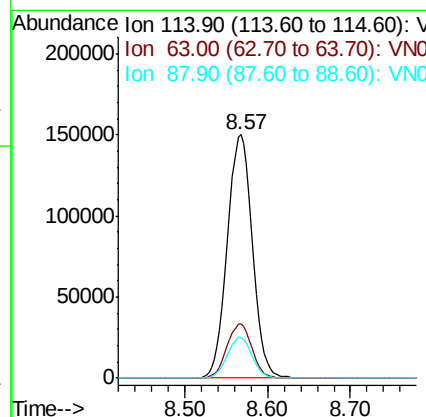
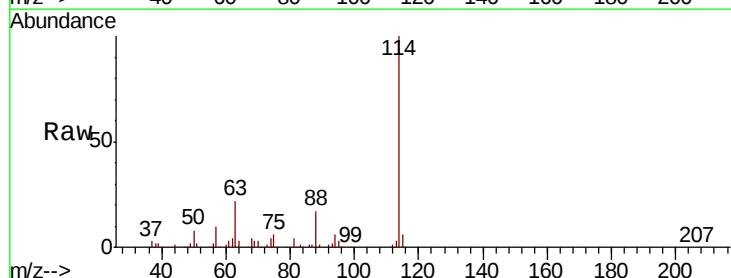
Instrument :
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 PB127661ZHE#07

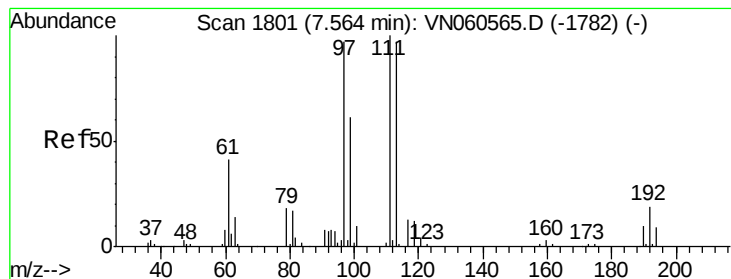
Tot Ion: 65 Resp: 124468
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060635.D
 Acq: 19 Mar 2020 14:37

Tgt Ion: 114 Resp: 315872
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 43.8
 88 16.7 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.858 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

PB127661ZHE#07

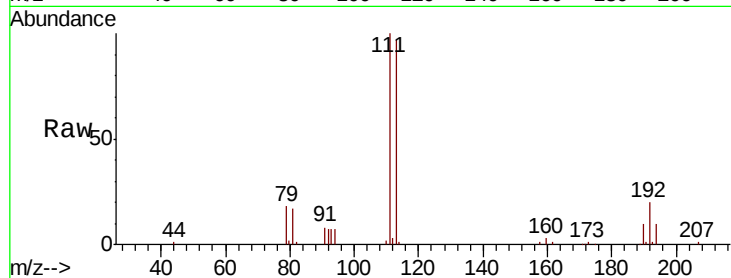
Tot Ion:113 Resp: 93318

Ion Ratio Lower Upper

113 100

111 103.2 82.9 124.3

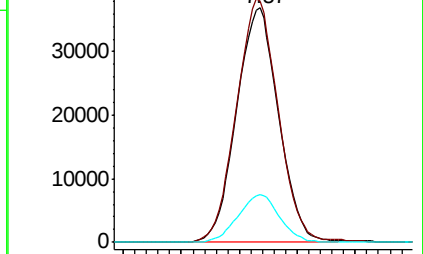
192 20.1 15.8 23.8



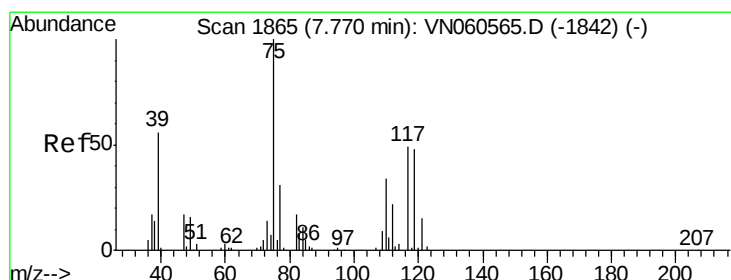
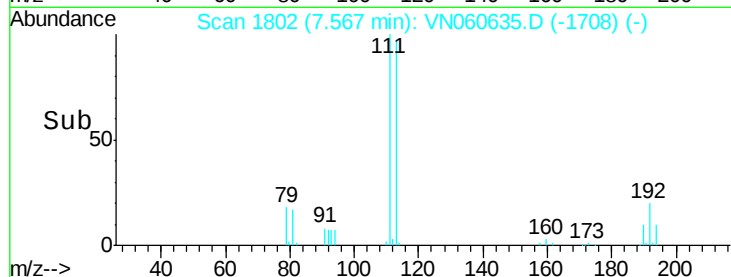
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



Time--> 7.45 7.50 7.55 7.60 7.65



#36

1,1-Dichloropropene

Concen: 4.743 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

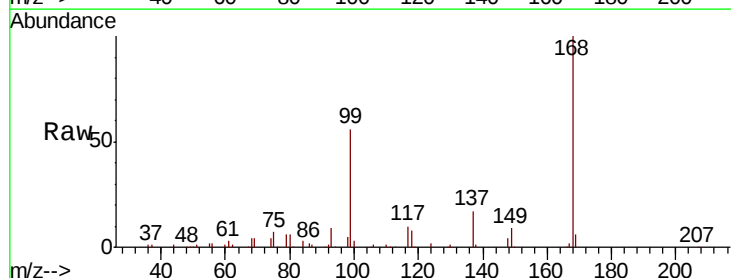
Tgt Ion: 75 Resp: 14508

Ion Ratio Lower Upper

75 100

110 8.9 16.9 50.6#

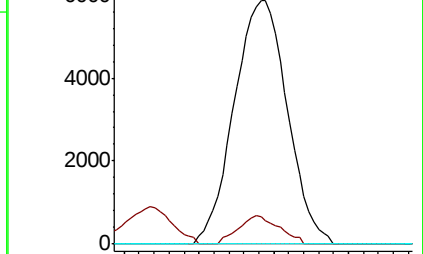
77 0.0 24.6 36.8#



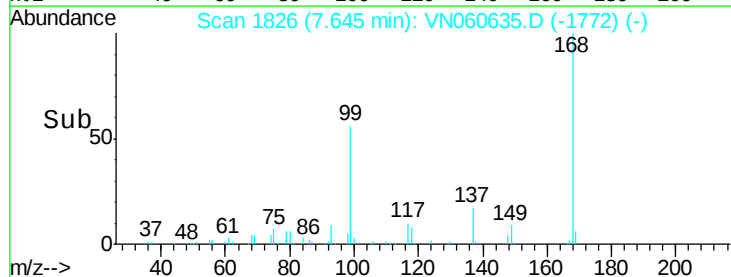
Abundance Ion 74.90 (74.60 to 75.60): VN0

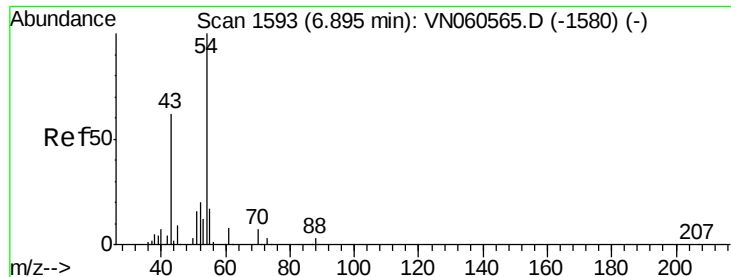
Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0



Time--> 7.55 7.60 7.65 7.70

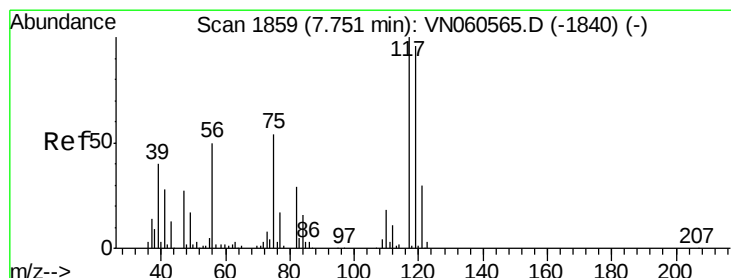
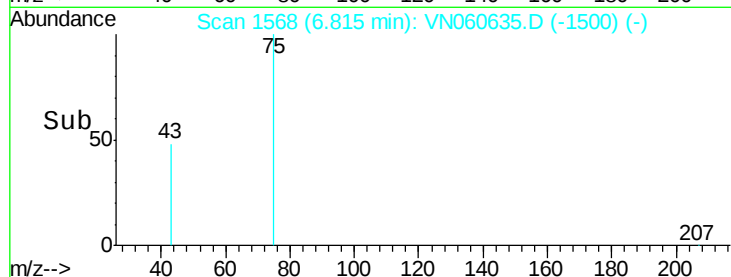
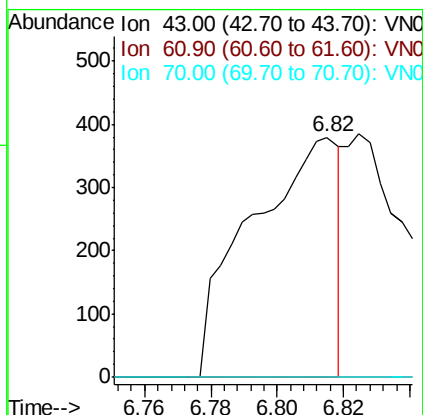
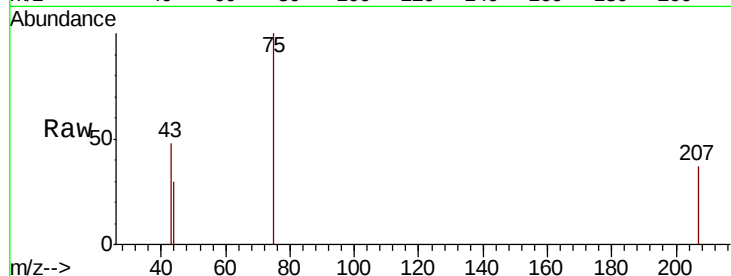




#37
Ethyl Acetate
Concen: 0.212 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. -0.08 min
Lab File: VN060635.D
Acq: 19 Mar 2020 14:37

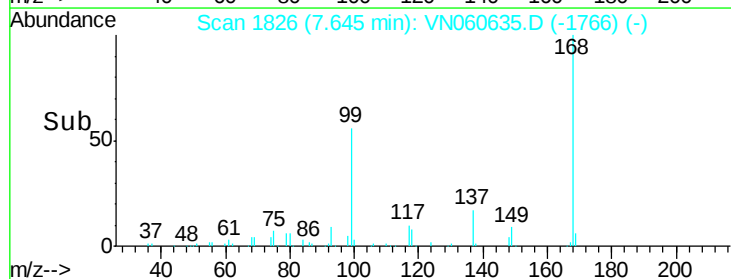
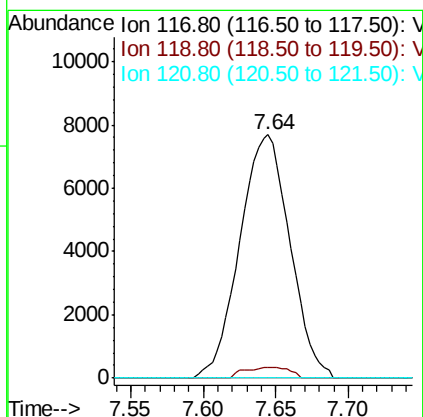
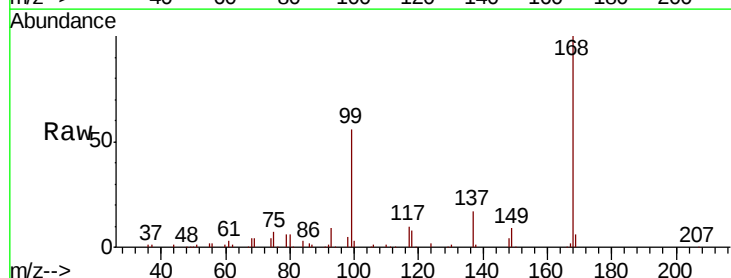
Instrument :
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PB127661ZHE#07

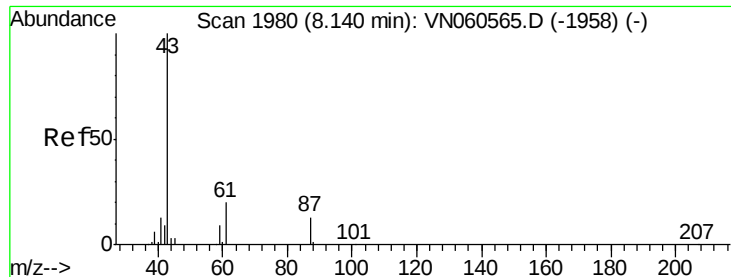
Tot Ion: 43 Resp: 700
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.745 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060635.D
Acq: 19 Mar 2020 14:37

Tgt Ion: 117 Resp: 18490
Ion Ratio Lower Upper
117 100
119 4.6 76.2 114.2#
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 10.036 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

PB127661ZHE#07

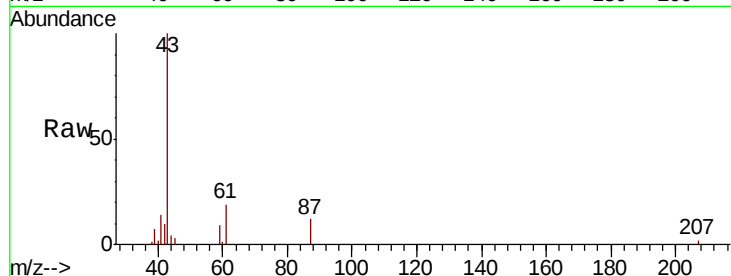
Tot Ion: 43 Resp: 54701

Ion Ratio Lower Upper

43 100

61 19.1 20.7 31.1#

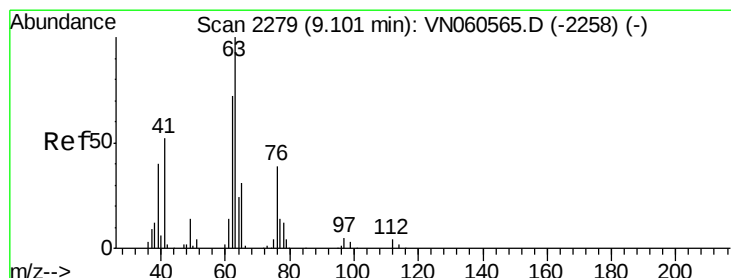
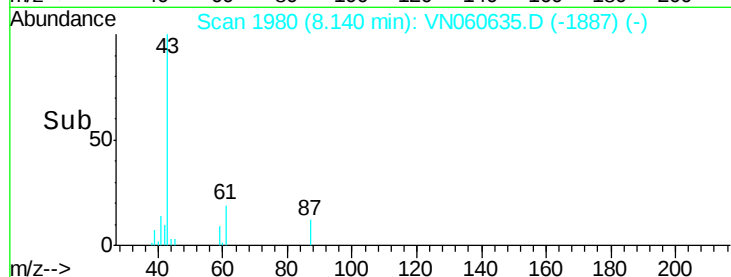
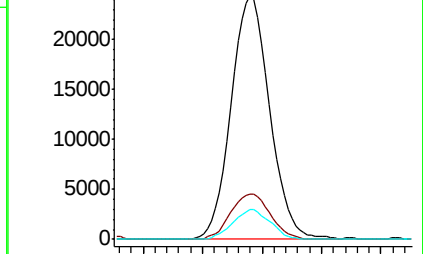
87 11.7 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060635.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN060635.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN060635.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.417 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060635.D

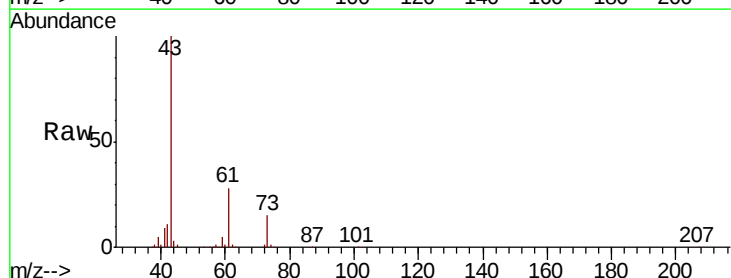
Acq: 19 Mar 2020 14:37

Tgt Ion: 63 Resp: 1016

Ion Ratio Lower Upper

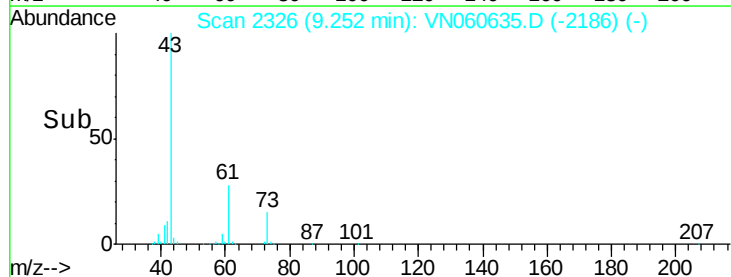
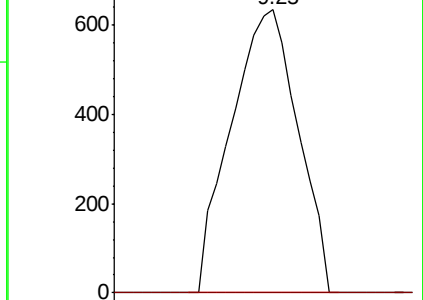
63 100

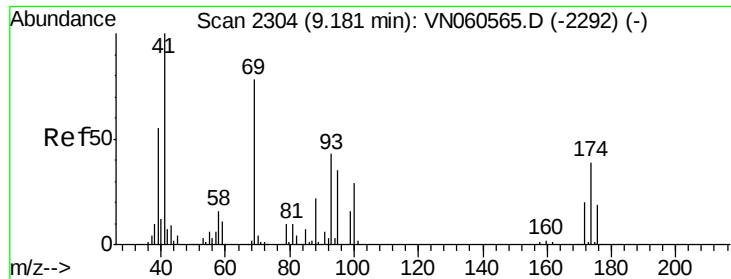
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060635.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060635.D (-2186) (-)

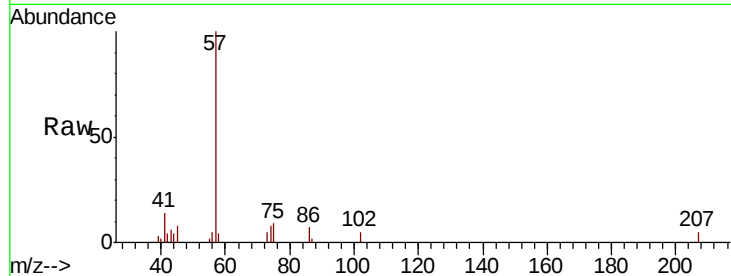




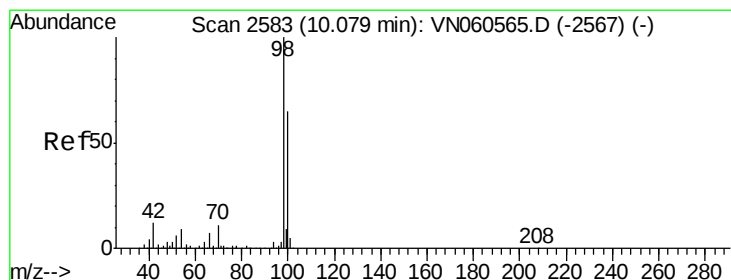
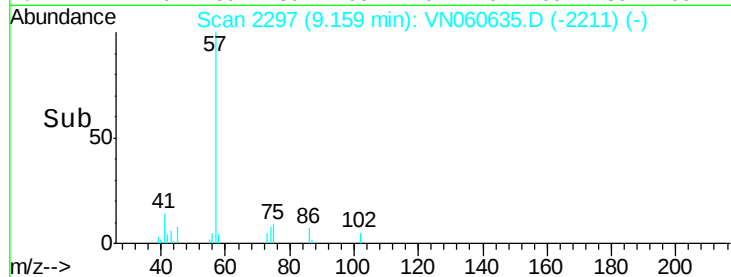
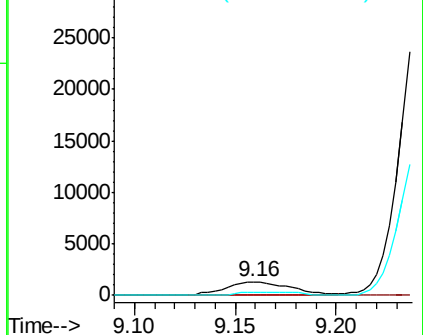
#48
Methvl methacrylate
Concen: 1.210 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060635.D
Acq: 19 Mar 2020 14:37

Instrument :
MSVOA_N
ClientSampleId :
PB127661ZHE#07

Tot Ion: 41 Resp: 2937
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

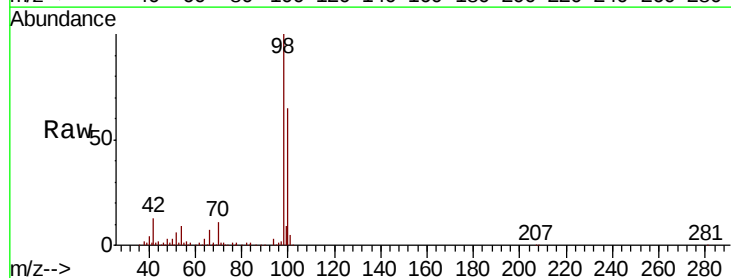


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

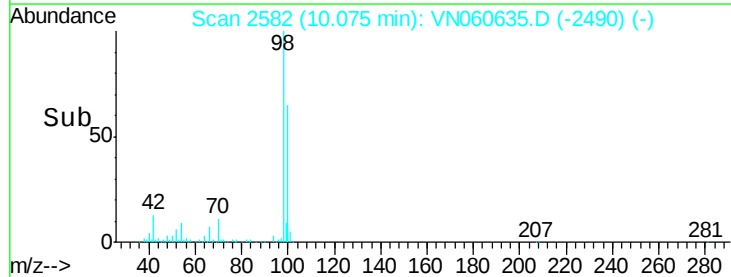
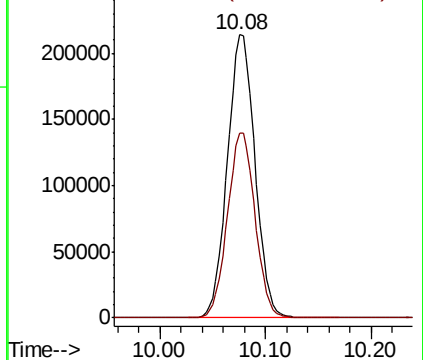


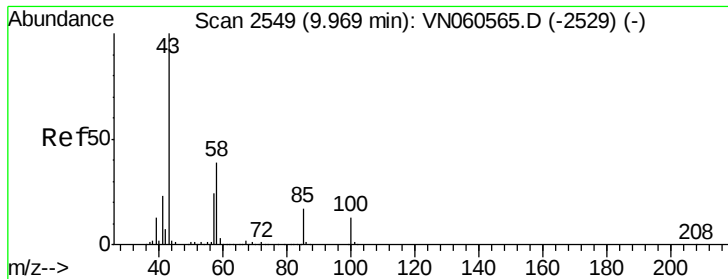
#50
Toluene-d8
Concen: 49.800 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060635.D
Acq: 19 Mar 2020 14:37

Tgt Ion: 98 Resp: 388516
Ion Ratio Lower Upper
98 100
100 65.2 51.8 77.8



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





#51

4-Methyl-2-Pentanone

Concen: 1.067 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

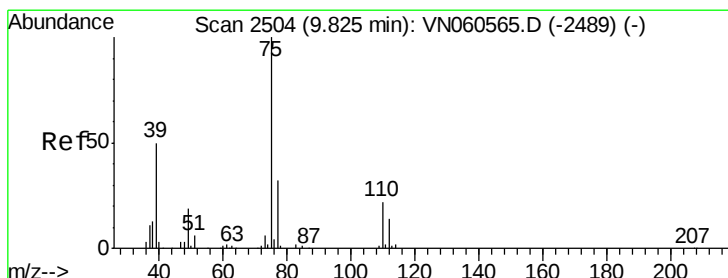
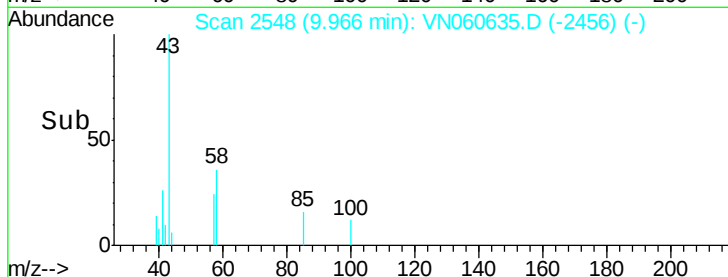
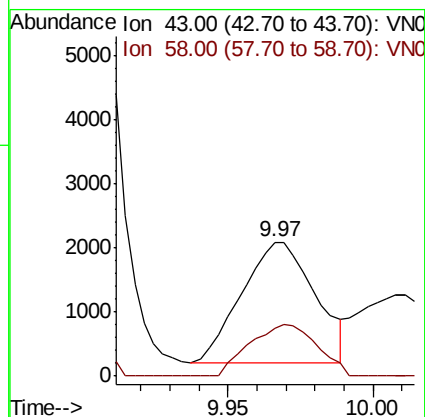
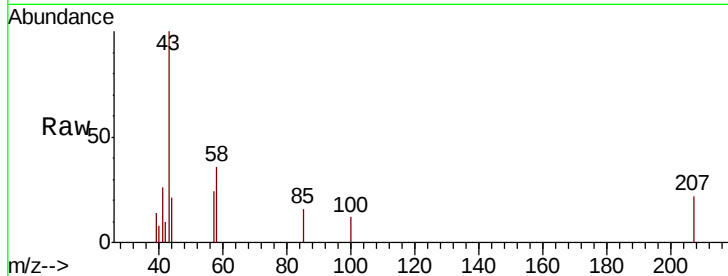
PB127661ZHE#07

Tot Ion: 43 Resp: 3309

Ion Ratio Lower Upper

43 100

58 39.5 30.8 46.2



#54

cis-1,3-Dichloropropene

Concen: 5.947 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

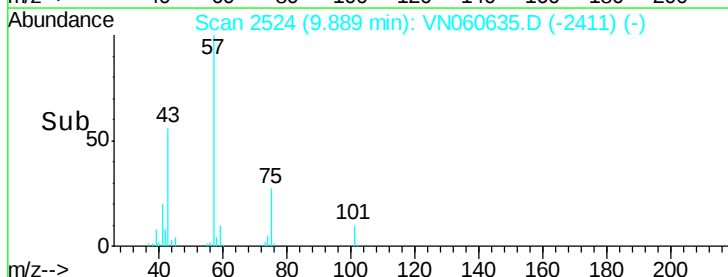
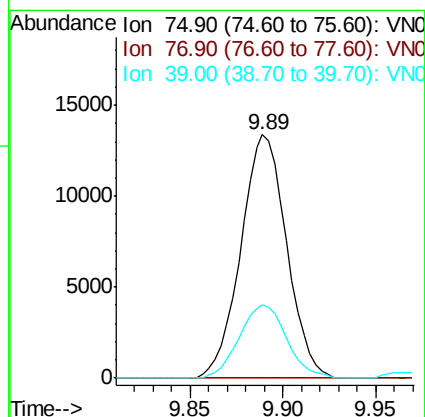
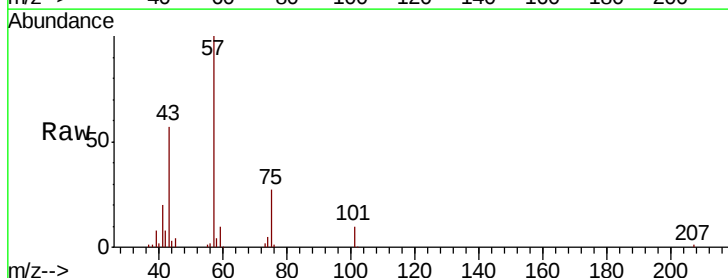
Tgt Ion: 75 Resp: 22939

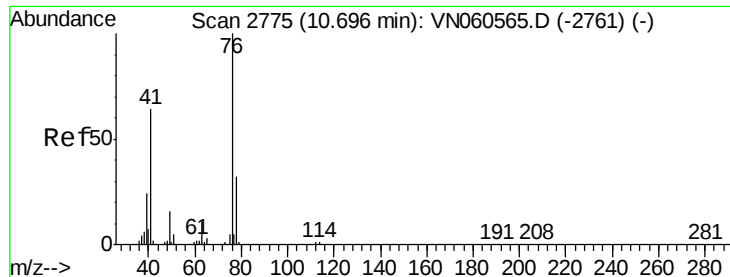
Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 29.9 40.2 60.4#





#57

1,3-Dichloropropane

Concen: 1.037 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

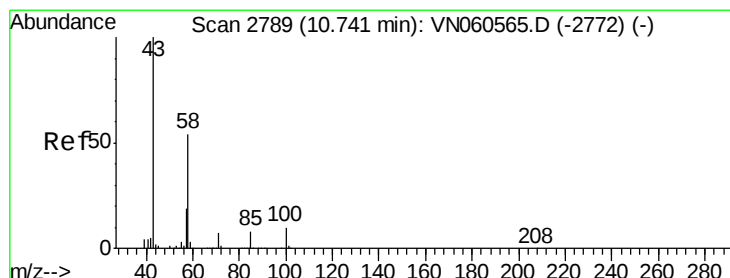
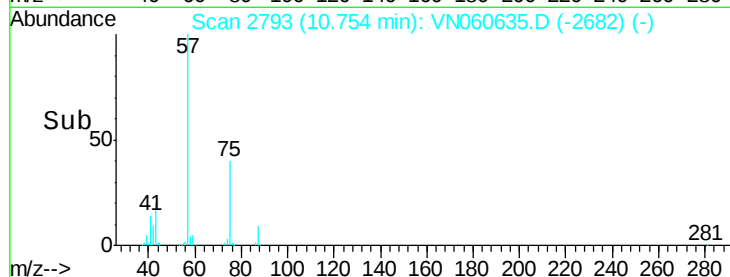
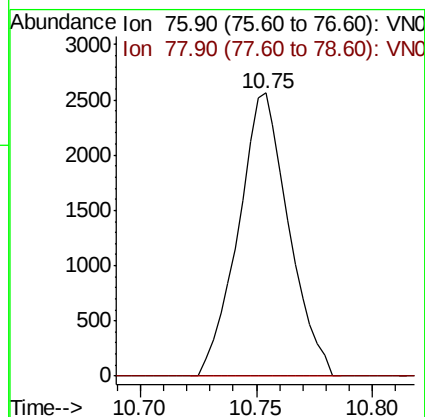
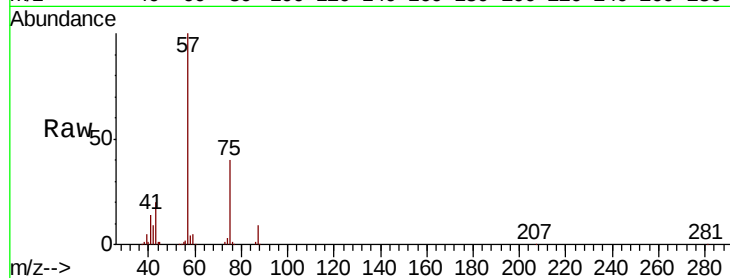
PB127661ZHE#07

Tot Ion: 76 Resp: 3861

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 25.819 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060635.D

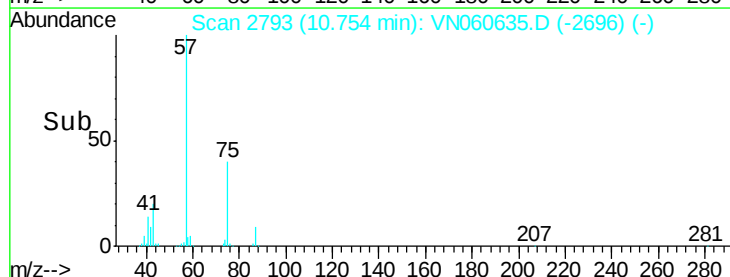
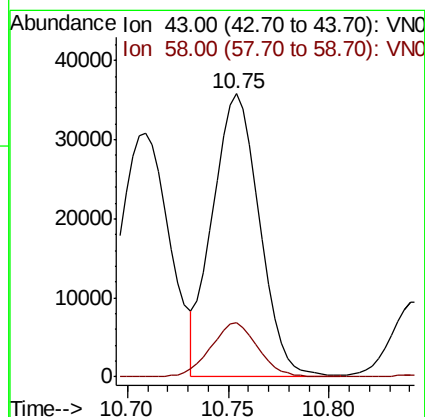
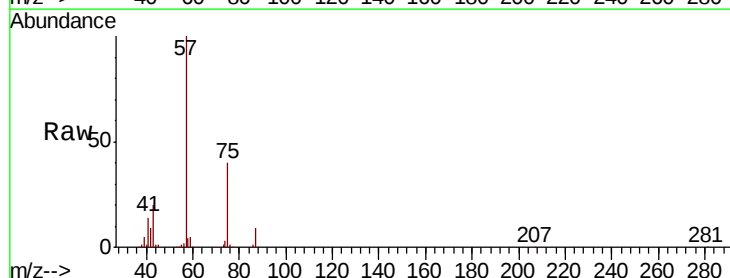
Acq: 19 Mar 2020 14:37

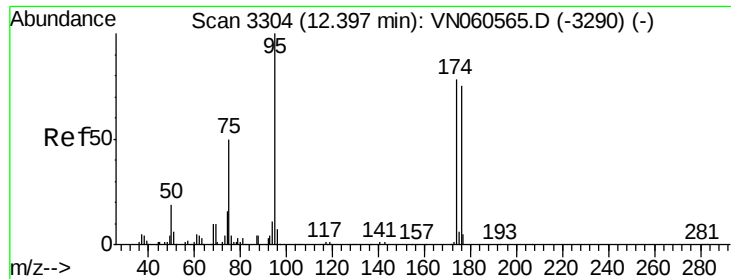
Tgt Ion: 43 Resp: 57685

Ion Ratio Lower Upper

43 100

58 19.1 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 50.377 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

PB127661ZHE#07

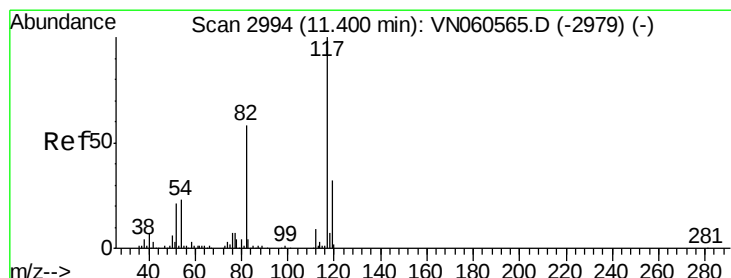
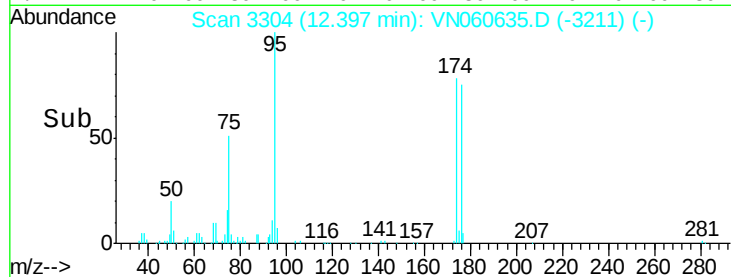
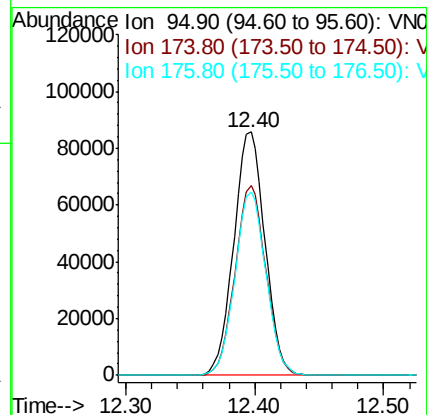
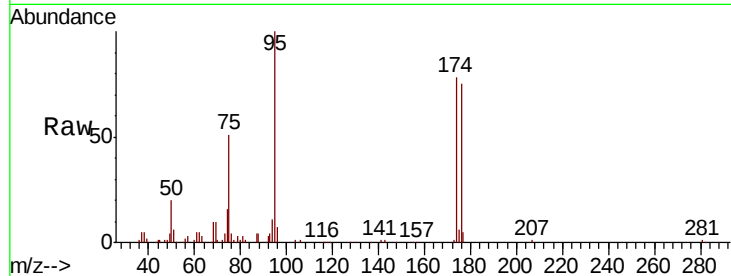
Tot Ion: 95 Resp: 144036

Ion Ratio Lower Upper

95 100

174 77.2 0.0 157.6

176 74.9 0.0 150.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

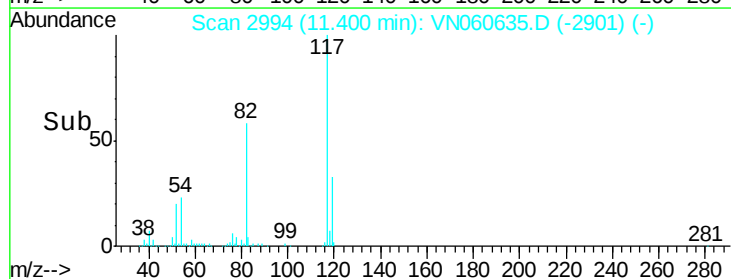
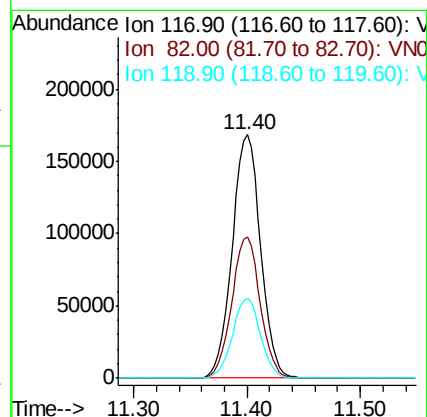
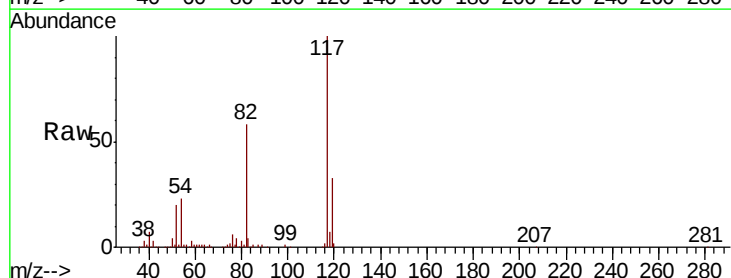
Tgt Ion: 117 Resp: 293793

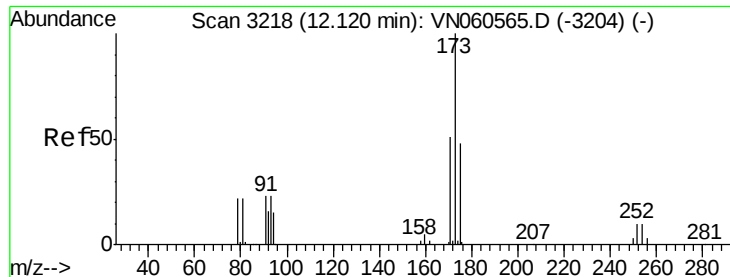
Ion Ratio Lower Upper

117 100

82 57.8 46.7 70.1

119 32.6 25.5 38.3





#71

Bromoform

Concen: 1.784 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.27 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

PB127661ZHE#07

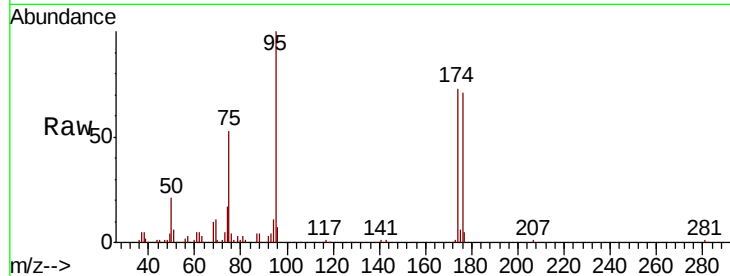
Tot Ion:173 Resp: 188

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.4#

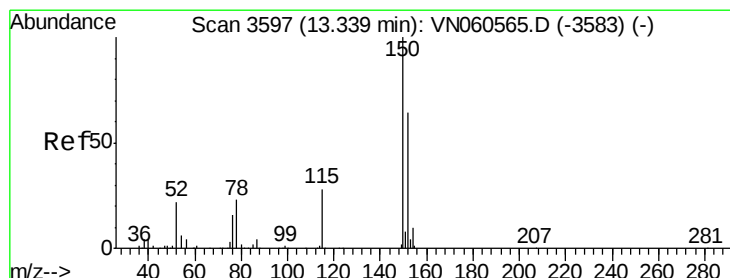
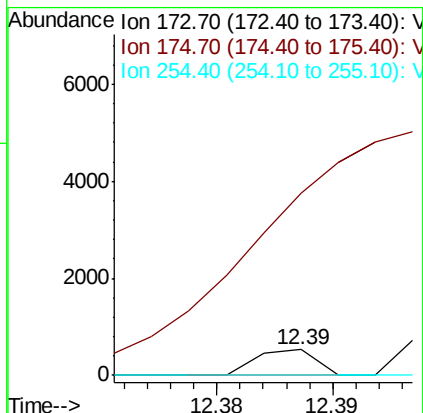
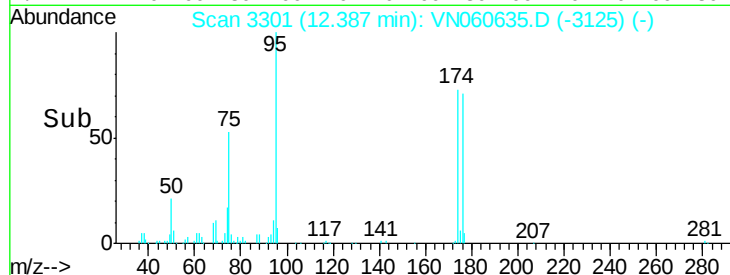
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

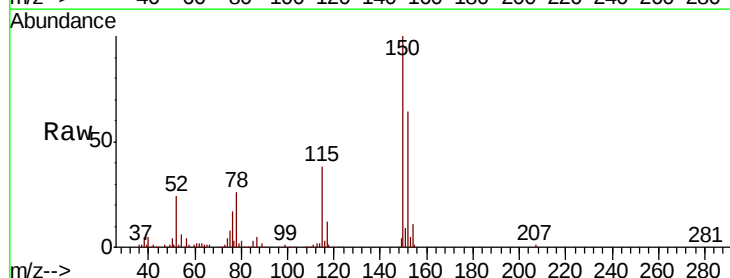
Tgt Ion:152 Resp: 130958

Ion Ratio Lower Upper

152 100

115 59.4 30.2 90.6

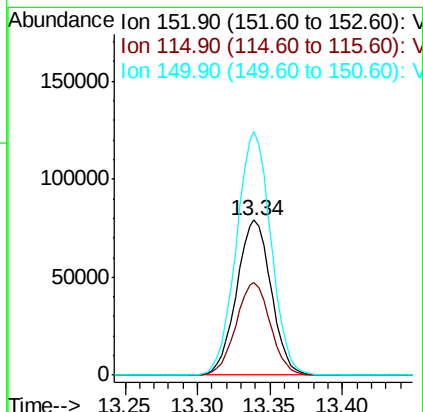
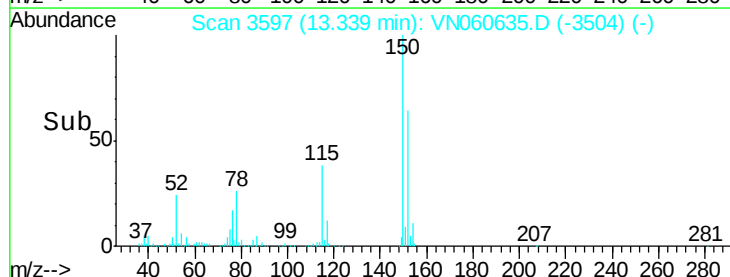
150 157.0 0.0 350.2

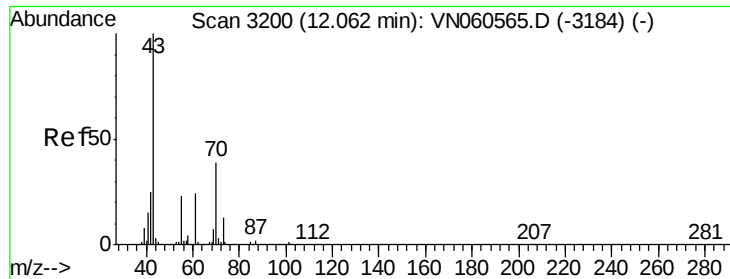


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.600 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

PB127661ZHE#07

Tot Ion: 43 Resp: 2724

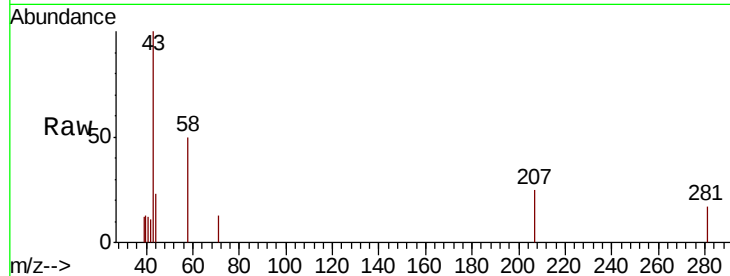
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

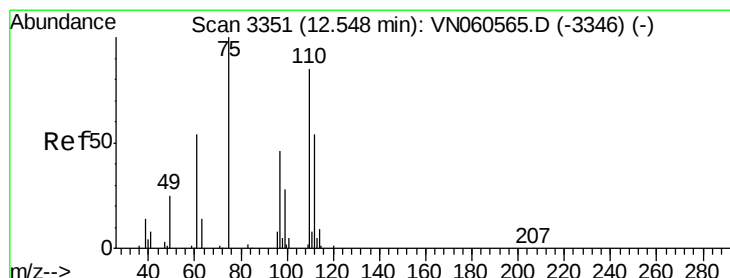
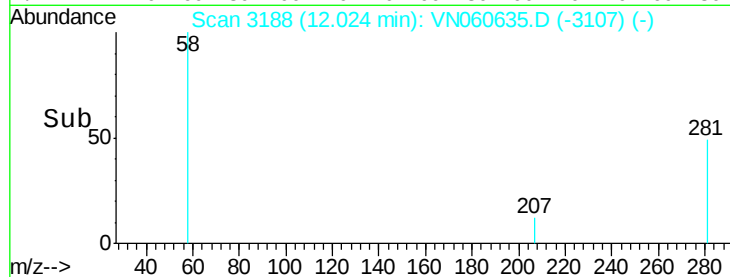
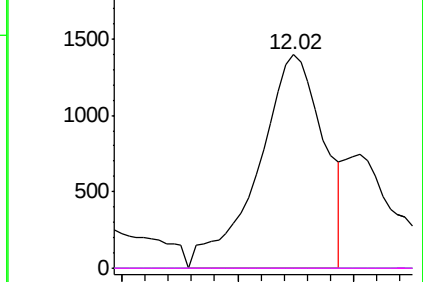


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.885 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060635.D

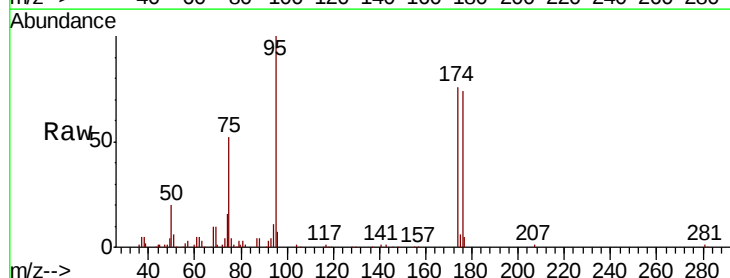
Acq: 19 Mar 2020 14:37

Tgt Ion: 75 Resp: 73146

Ion Ratio Lower Upper

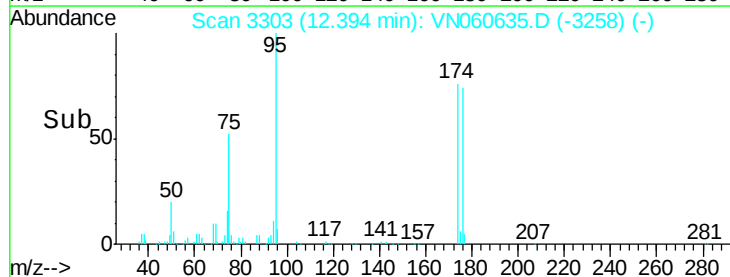
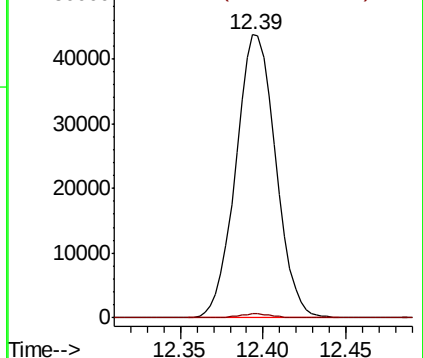
75 100

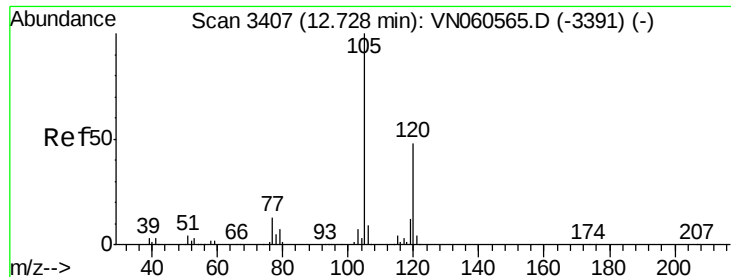
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

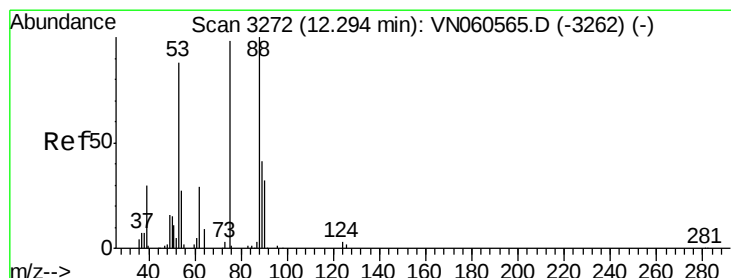
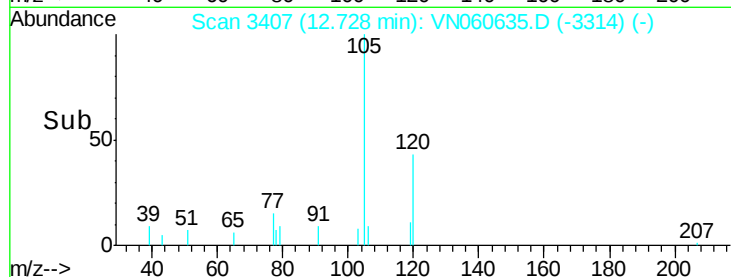
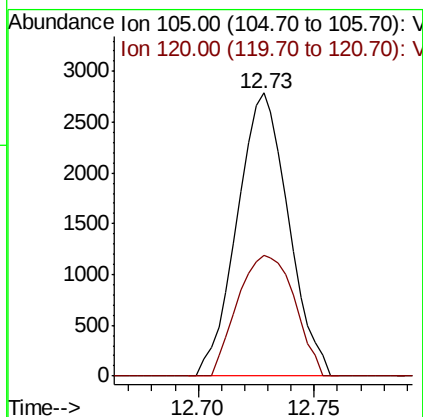
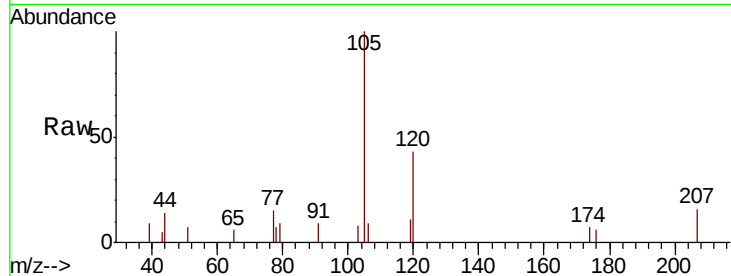




#80
 1,3,5-Trimethylbenzene
 Concen: 0.514 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. 0.00 min
 Lab File: VN060635.D
 Acq: 19 Mar 2020 14:37

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127661ZHE#07

Tot Ion:105 Resp: 4287
 Ion Ratio Lower Upper
 105 100
 120 47.4 23.9 71.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.480 ug/l
 RT: 12.39 min Scan# 3303
 Delta R.T. 0.10 min
 Lab File: VN060635.D
 Acq: 19 Mar 2020 14:37

Tgt Ion: 75 Resp: 73146
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#

