

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033120\
 Data File : VN060794.D
 Acq On : 31 Mar 2020 18:21
 Operator : JC/MD
 Sample : PB127897ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

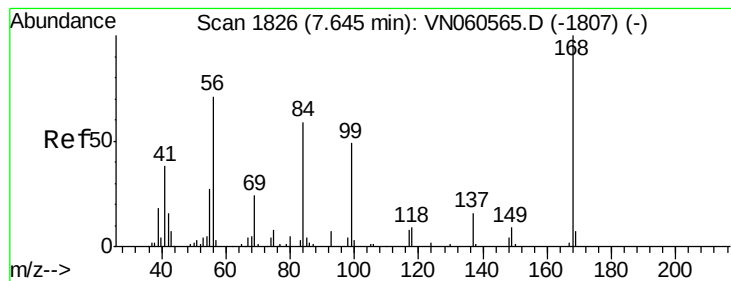
Quant Time: Apr 01 08:25:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	202672	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	337757	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	319265	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	149368	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	131898	47.41	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.82%	
35) Dibromofluoromethane	7.56	113	100643	49.28	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.56%	
50) Toluene-d8	10.08	98	422476	50.64	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.28%	
62) 4-Bromofluorobenzene	12.40	95	159288	52.10	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	361	0.882	ug/l #	72
16) Acetone	3.78	43	6799	6.899	ug/l	97
18) Methyl Acetate	4.29	43	2245	0.809	ug/l #	60
20) Methylene Chloride	4.53	84	2297	0.947	ug/l	94
25) 2-Butanone	6.80	43	3154	1.978	ug/l	91
29) Tetrahydrofuran	7.18	42	301	0.267	ug/l #	35
31) Cyclohexane	7.64	56	4430	0.989	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15899	4.861	ug/l #	49
37) Ethyl Acetate	6.80	43	3154	0.893	ug/l #	83
38) Carbon Tetrachloride	7.64	117	19997	6.822	ug/l #	17
43) Isopropyl Acetate	8.14	43	62775	10.771	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1182	0.454	ug/l #	43
48) Methyl methacrylate	9.16	41	3558	1.371	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5255	1.585	ug/l	92
52) Toluene	10.14	92	1490	0.250	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	25867	6.272	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	4500	1.130	ug/l #	42
59) 2-Hexanone	10.75	43	65847	27.563	ug/l #	52
71) Bromoform	12.38	173	91	1.727	ug/l #	29
74) N-amyl acetate	12.02	43	3501	0.676	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	80185	24.879	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4412	0.464	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	80185	63.896	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060794.D

Acq: 31 Mar 2020 18:21

Instrument :

MSVOA_N

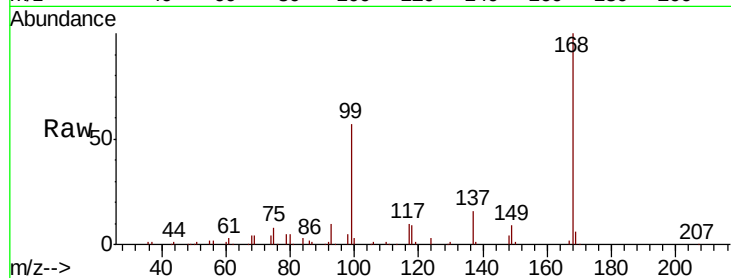
ClientSampleId :

Tot Ion:168 Resp: 202672

Ion Ratio Lower Upper

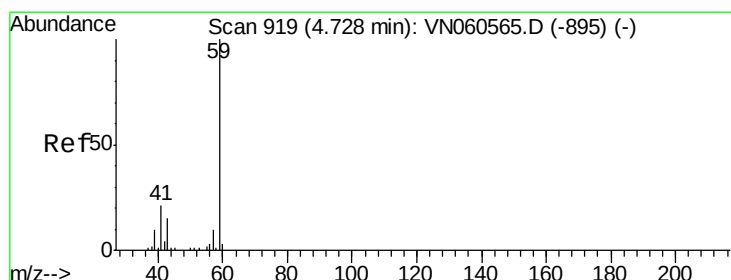
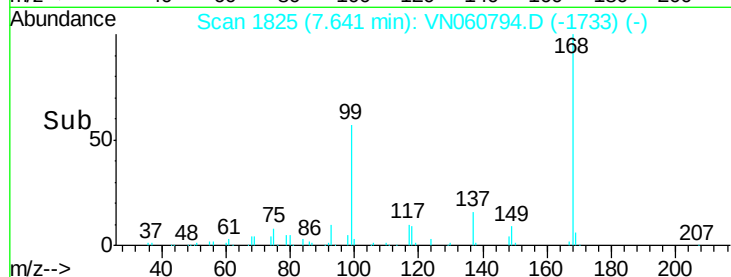
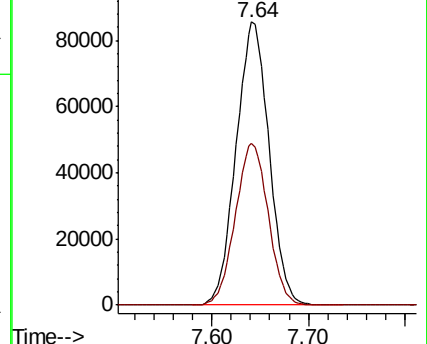
168 100

99 57.3 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060794.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060794.D (-1733) (-)



#11

Tert butyl alcohol

Concen: 0.882 ug/l

RT: 4.72 min Scan# 915

Delta R.T. -0.01 min

Lab File: VN060794.D

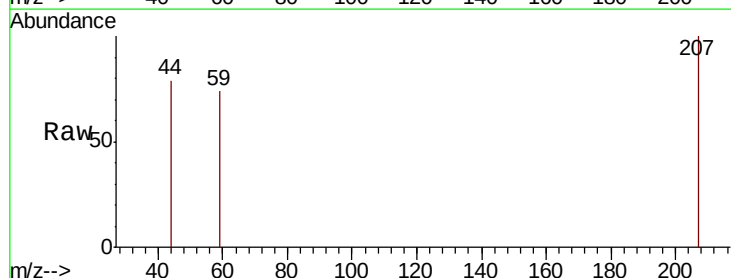
Acq: 31 Mar 2020 18:21

Tgt Ion: 59 Resp: 361

Ion Ratio Lower Upper

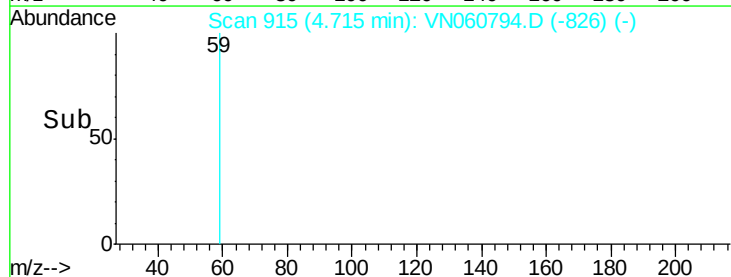
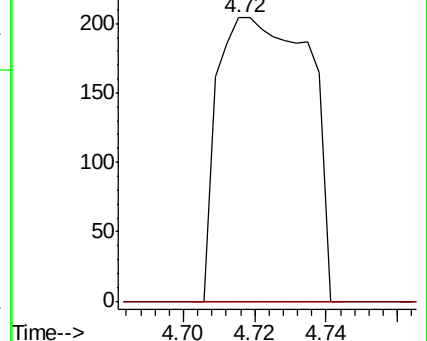
59 100

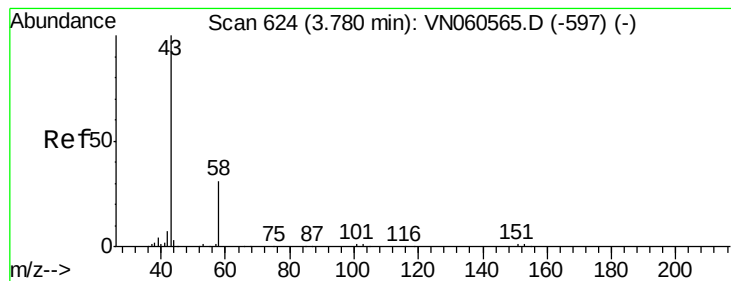
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN060794.D (-826) (-)

Ion 57.00 (56.70 to 57.70): VN060794.D (-826) (-)





#16

Acetone

Concen: 6.899 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN060794.D

Acq: 31 Mar 2020 18:21

Instrument :

MSVOA_N

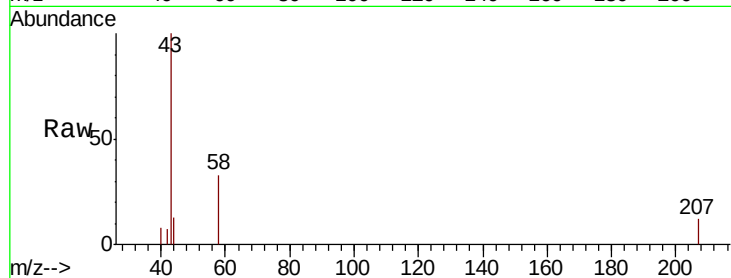
ClientSampled :

Tot Ion: 43 Resp: 6799

Ion Ratio Lower Upper

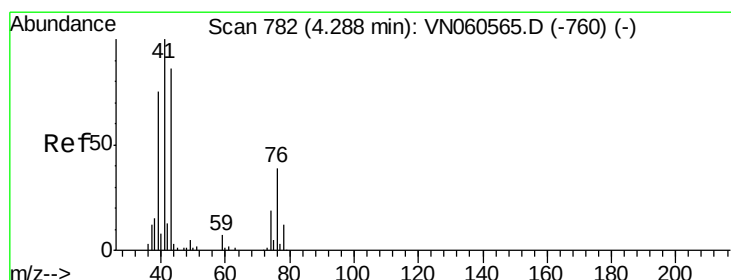
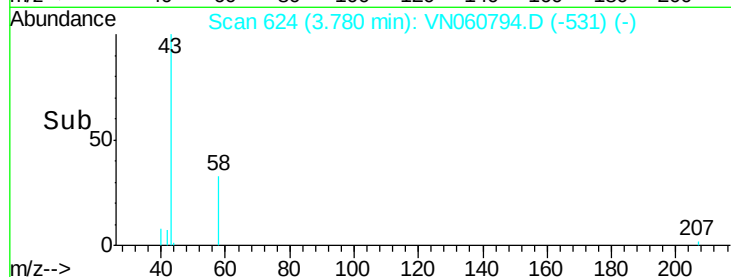
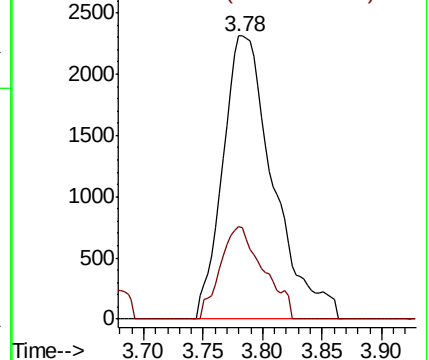
43 100

58 32.9 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060794.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060794.D (-531) (-)



#18

Methyl Acetate

Concen: 0.809 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN060794.D

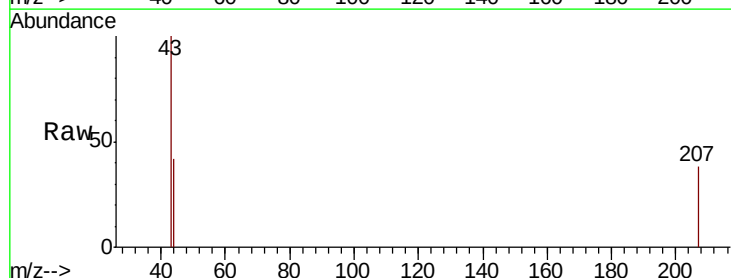
Acq: 31 Mar 2020 18:21

Tgt Ion: 43 Resp: 2245

Ion Ratio Lower Upper

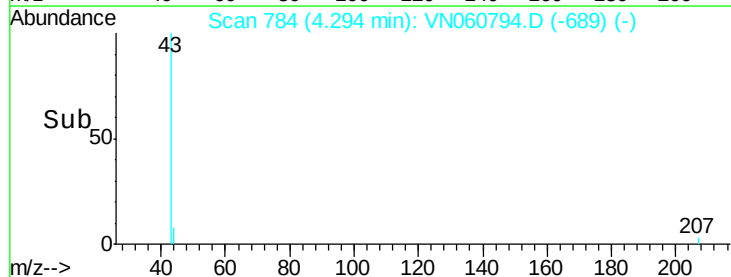
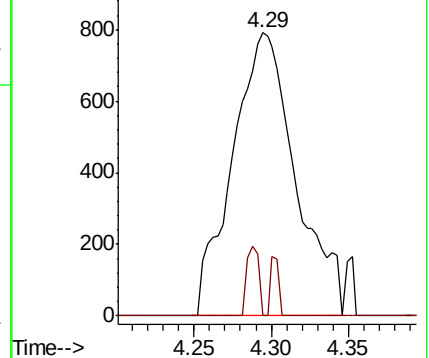
43 100

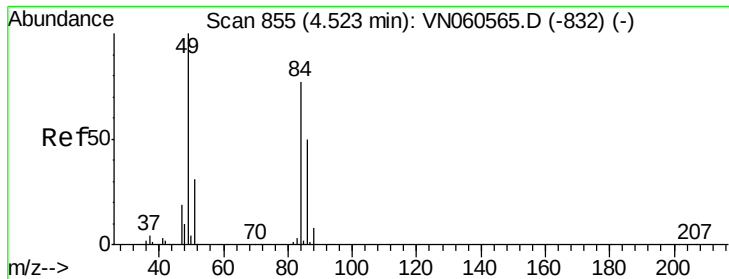
74 2.8 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060794.D (-689) (-)

Ion 74.00 (73.70 to 74.70): VN060794.D (-689) (-)

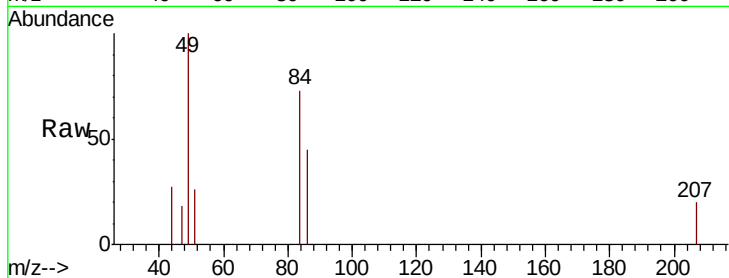




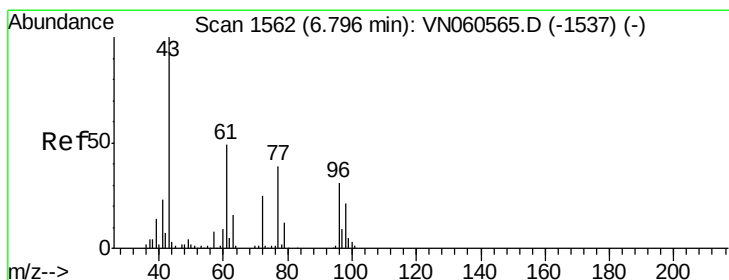
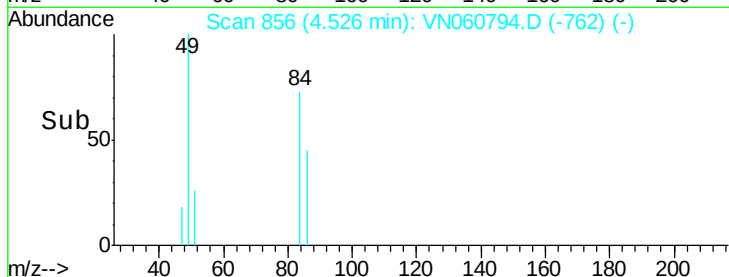
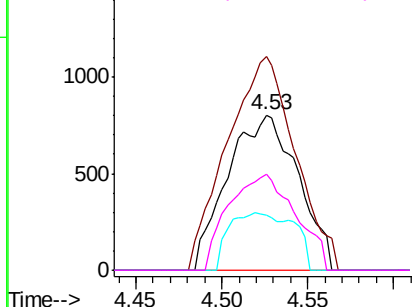
#20
Methvlene Chloride
Concen: 0.947 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060794.D
Acq: 31 Mar 2020 18:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 2297
Ion Ratio Lower Upper
84 100
49 137.8 103.3 154.9
51 35.3 31.6 47.4
86 62.0 52.0 78.0

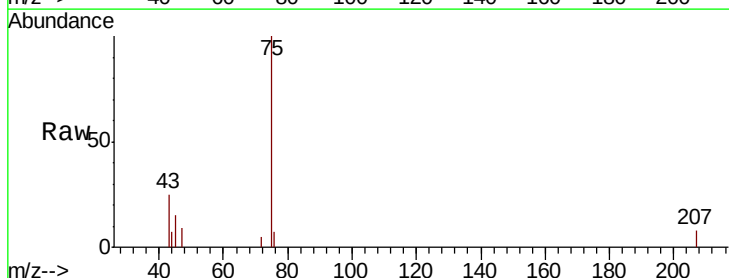


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

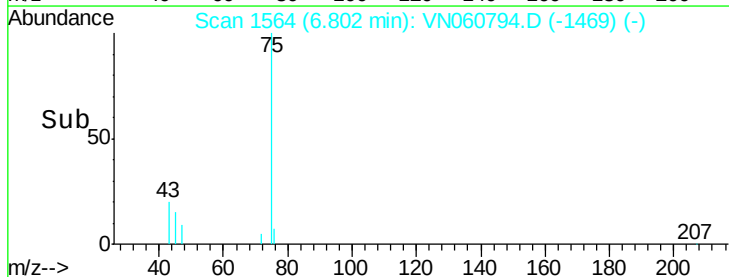
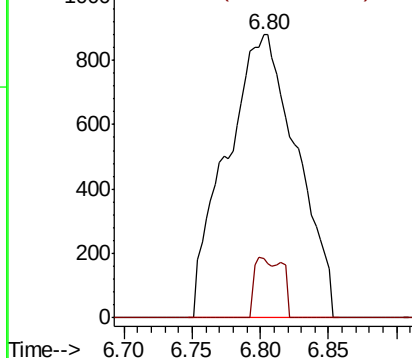


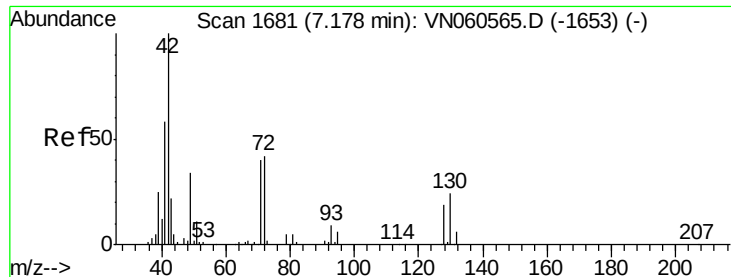
#25
2-Butanone
Concen: 1.978 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN060794.D
Acq: 31 Mar 2020 18:21

Tgt Ion: 43 Resp: 3154
Ion Ratio Lower Upper
43 100
72 21.2 20.4 30.6



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

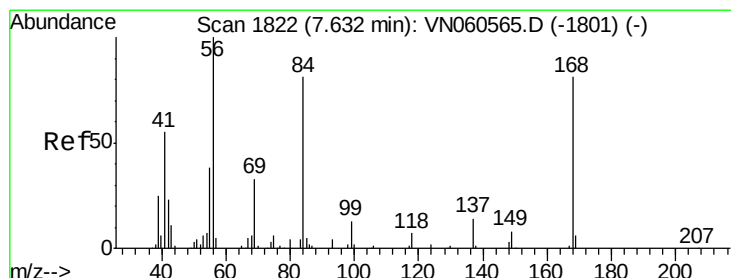
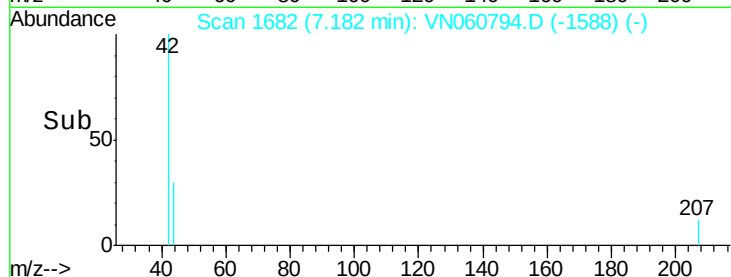
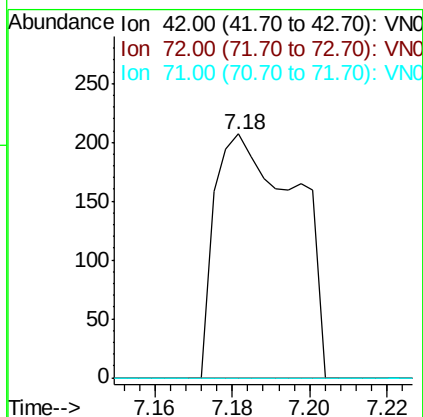
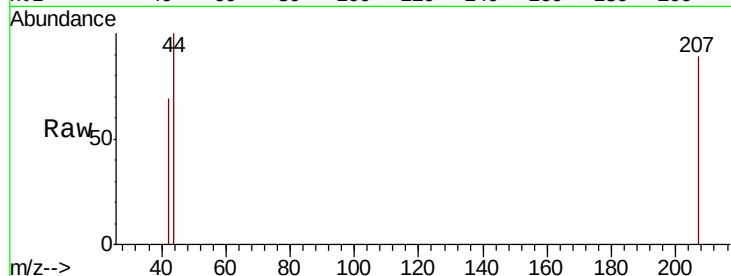




#29
Tetrahydrofuran
Concen: 0.267 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.00 min
Lab File: VN060794.D
Acq: 31 Mar 2020 18:21

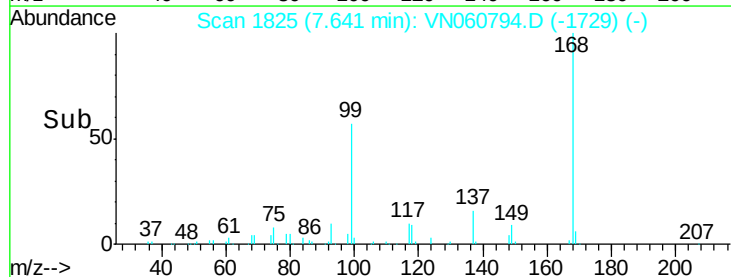
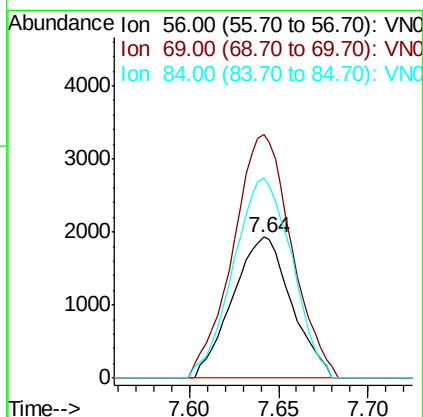
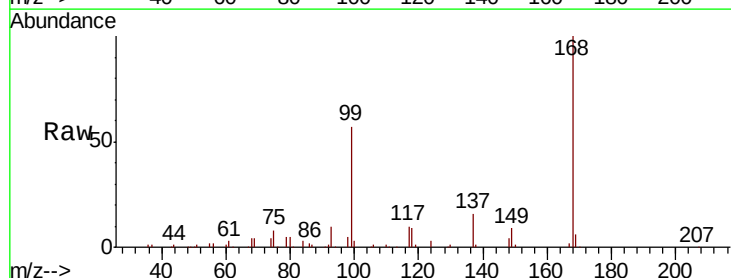
Instrument :
MSVOA_N
ClientSampled :

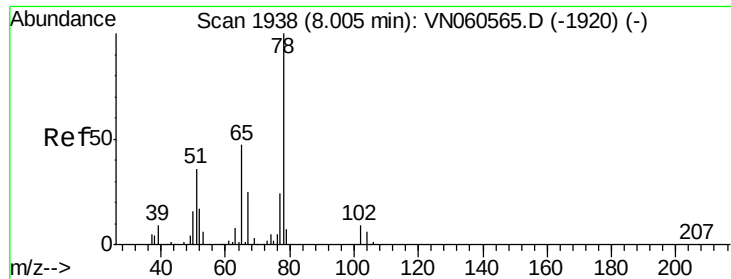
Tot Ion: 42 Resp: 301
Ion Ratio Lower Upper
42 100
72 0.0 33.2 49.8#
71 0.0 31.1 46.7#



#31
Cyclohexane
Concen: 0.989 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060794.D
Acq: 31 Mar 2020 18:21

Tgt Ion: 56 Resp: 4430
Ion Ratio Lower Upper
56 100
69 172.9 26.6 40.0#
84 142.1 64.3 96.5#

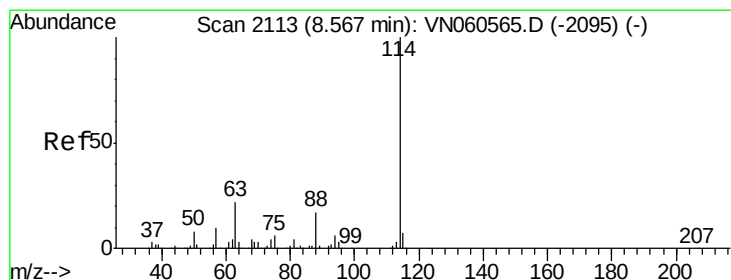
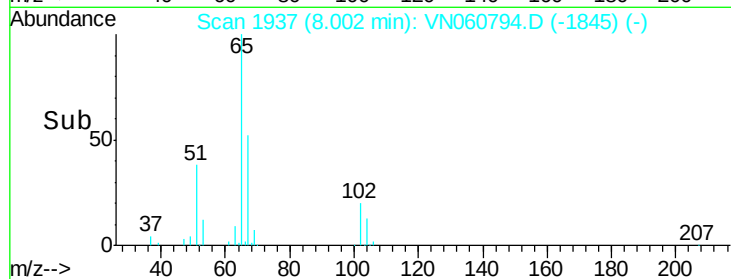
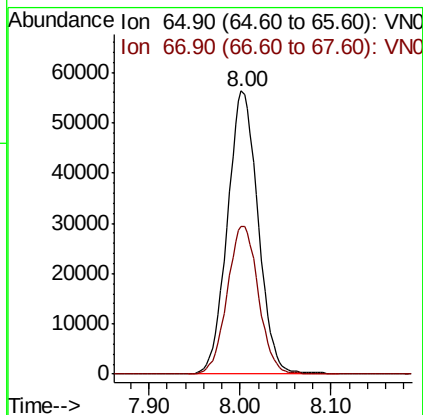
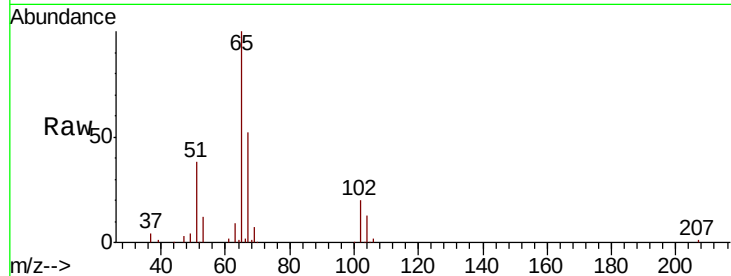




#33
 1,2-Dichloroethane-d4
 Concen: 47.407 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060794.D
 Acq: 31 Mar 2020 18:21

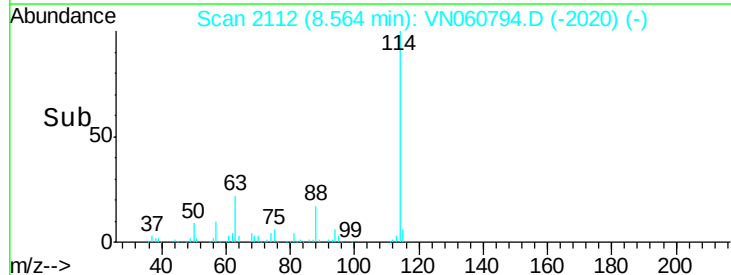
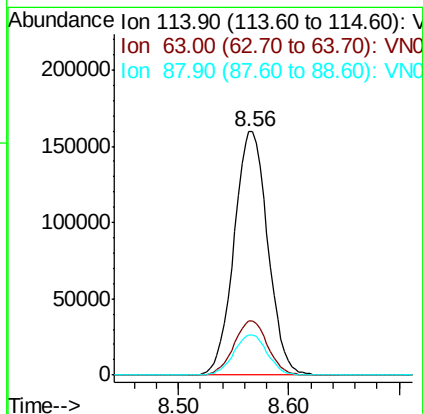
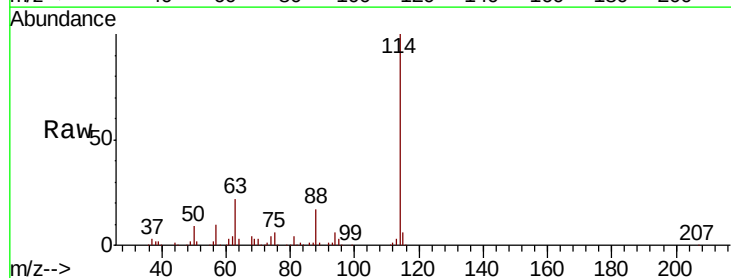
Instrument :
 MSVOA_N
 ClientSampleId :

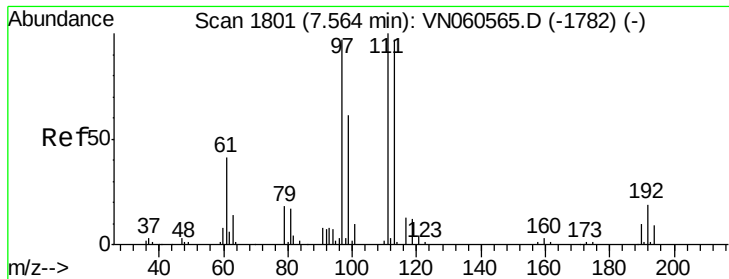
Tot Ion: 65 Resp: 131898
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060794.D
 Acq: 31 Mar 2020 18:21

Tgt Ion: 114 Resp: 337757
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.8
 88 16.6 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.279 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060794.D

Acq: 31 Mar 2020 18:21

Instrument :

MSVOA_N

ClientSampled :

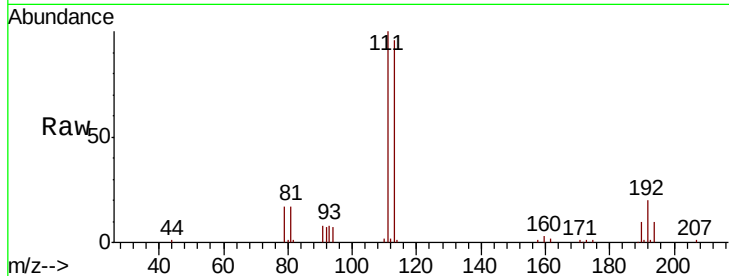
Tot Ion:113 Resp: 100643

Ion Ratio Lower Upper

113 100

111 102.3 82.9 124.3

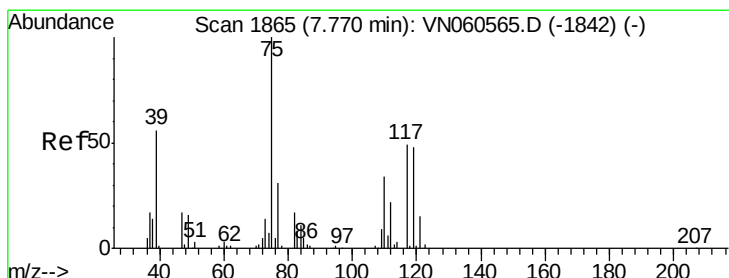
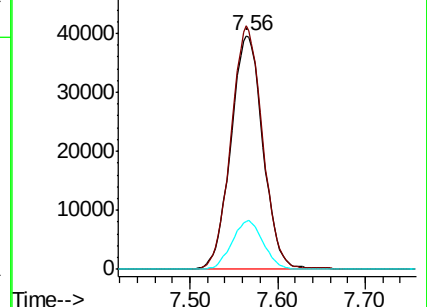
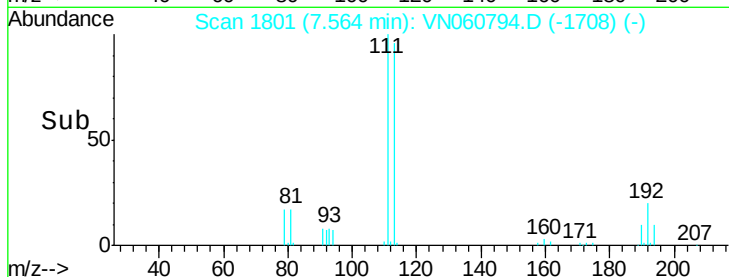
192 20.3 15.8 23.8



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



#36

1,1-Dichloropropene

Concen: 4.861 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060794.D

Acq: 31 Mar 2020 18:21

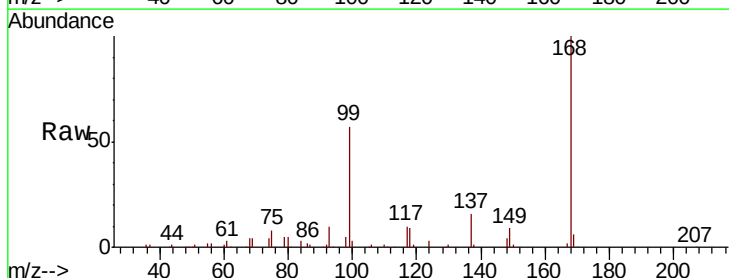
Tgt Ion: 75 Resp: 15899

Ion Ratio Lower Upper

75 100

110 6.8 16.9 50.6#

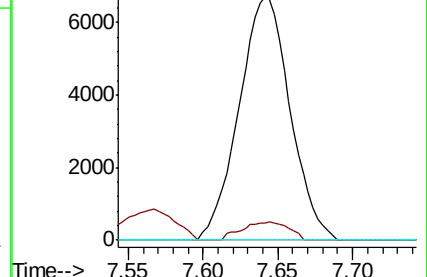
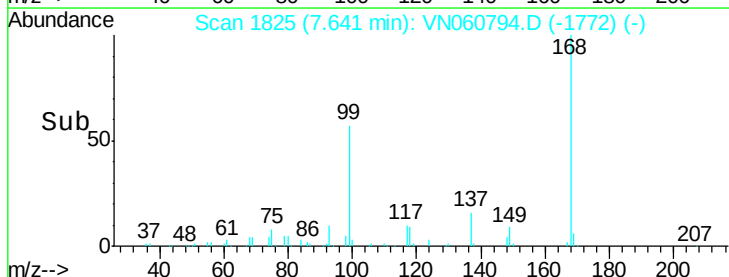
77 0.0 24.6 36.8#

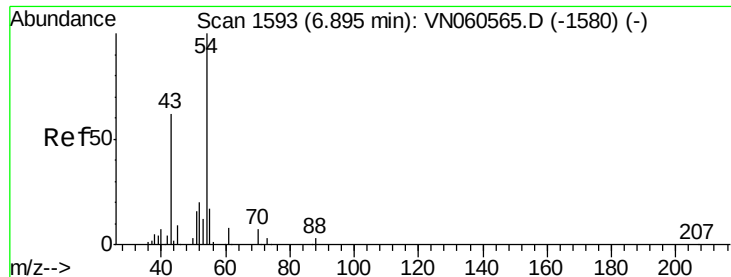


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

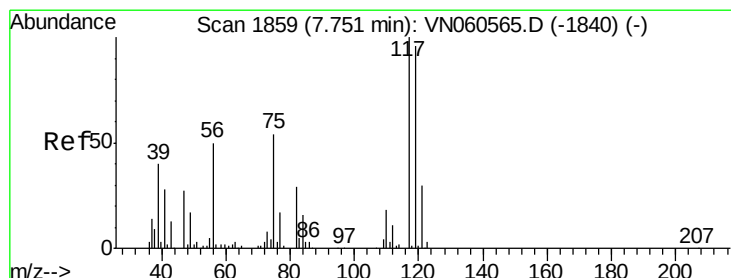
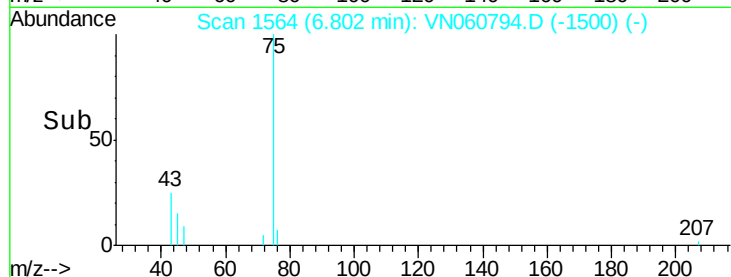
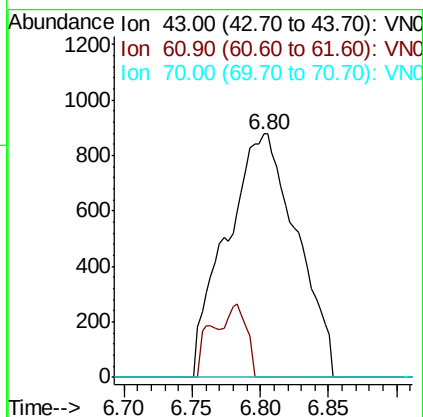
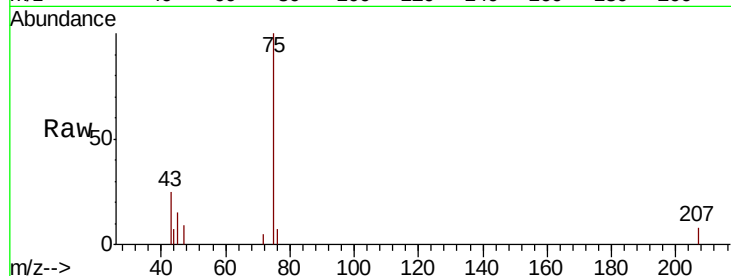




#37
Ethyl Acetate
Concen: 0.893 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.09 min
Lab File: VN060794.D
Acq: 31 Mar 2020 18:21

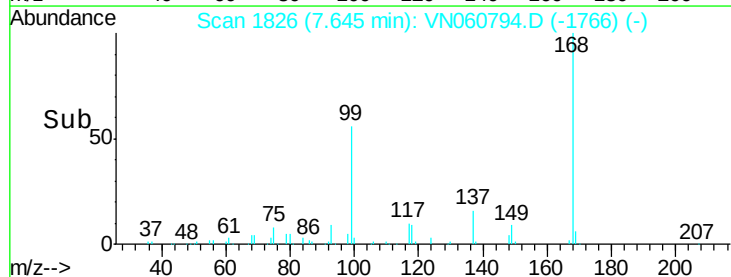
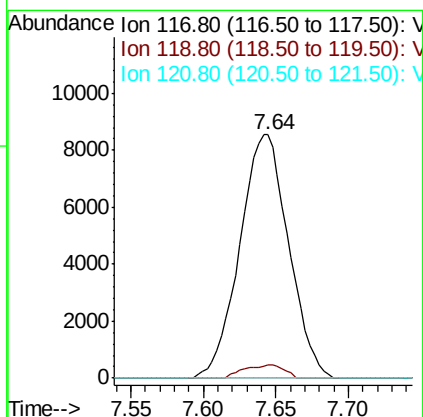
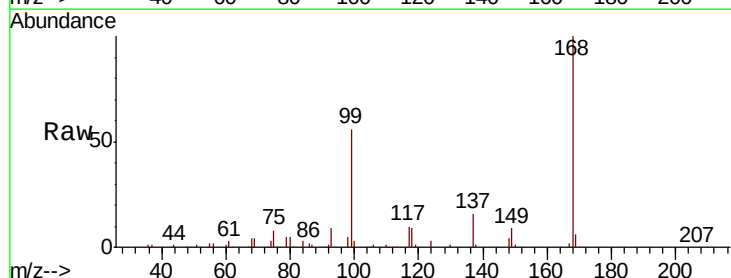
Instrument :
MSVOA_N
ClientSampled :

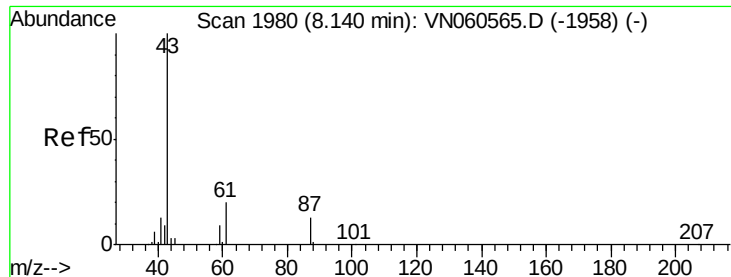
Tot Ion: 43 Resp: 3154
Ion Ratio Lower Upper
43 100
61 9.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.822 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060794.D
Acq: 31 Mar 2020 18:21

Tgt Ion: 117 Resp: 19997
Ion Ratio Lower Upper
117 100
119 5.4 76.2 114.2#
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 10.771 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060794.D

Acq: 31 Mar 2020 18:21

Instrument :

MSVOA_N

ClientSampleId :

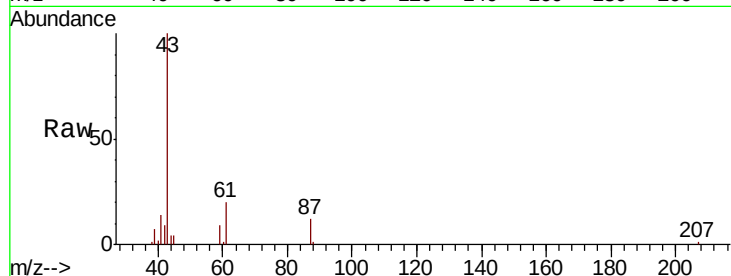
Tot Ion: 43 Resp: 62775

Ion Ratio Lower Upper

43 100

61 19.5 20.7 31.1#

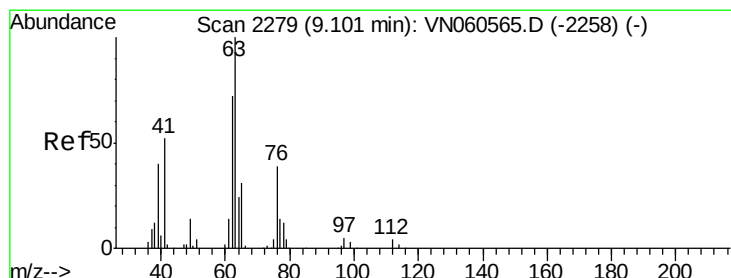
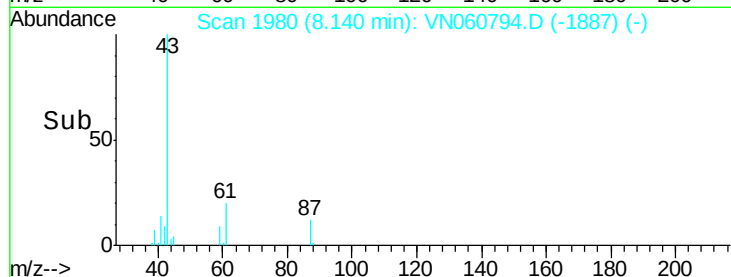
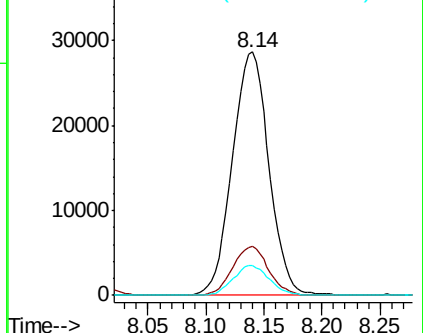
87 12.0 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060794.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN060794.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN060794.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.454 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060794.D

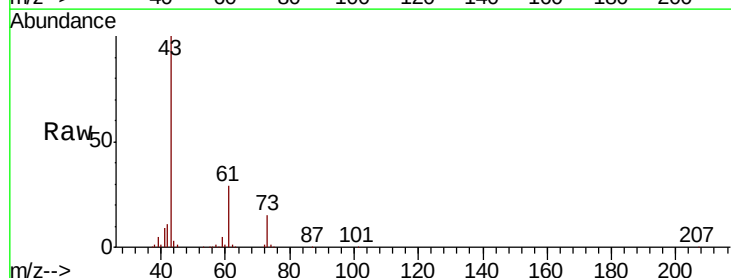
Acq: 31 Mar 2020 18:21

Tgt Ion: 63 Resp: 1182

Ion Ratio Lower Upper

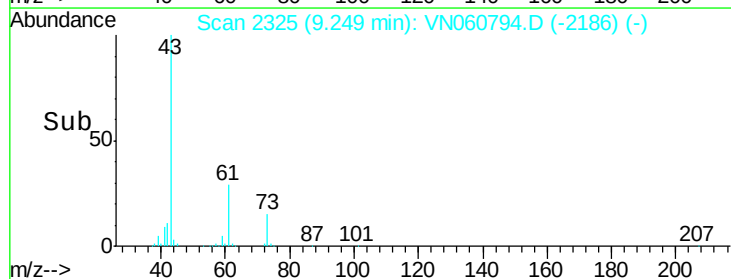
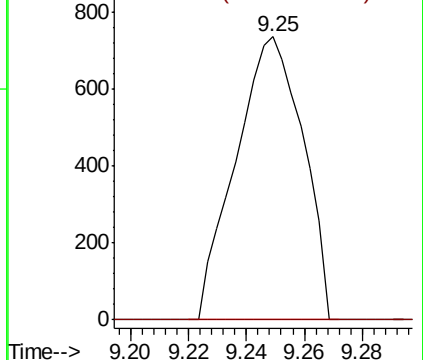
63 100

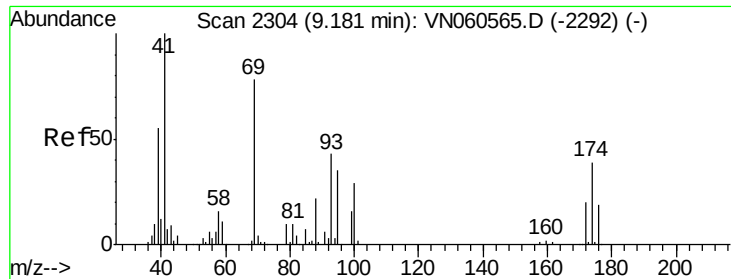
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060794.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060794.D (-2186) (-)

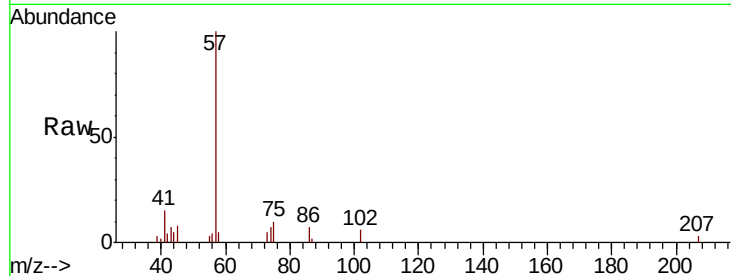




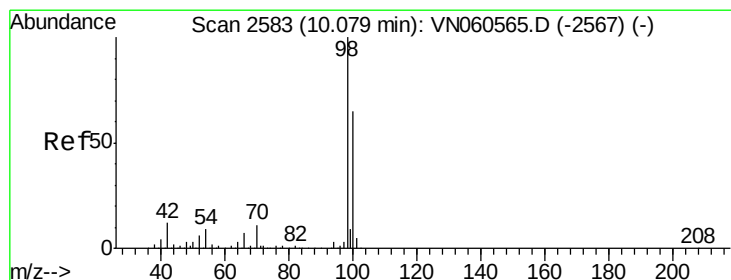
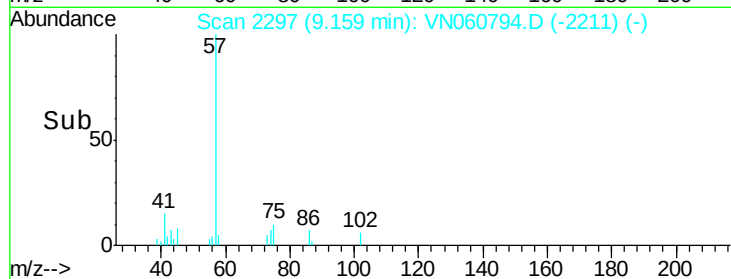
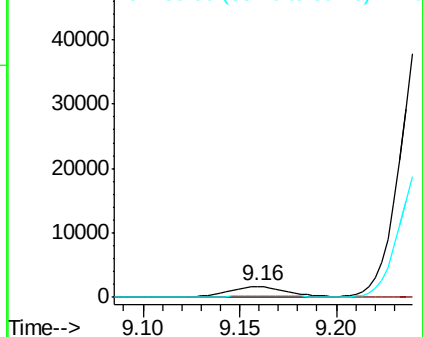
#48
Methvl methacrylate
Concen: 1.371 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060794.D
Acq: 31 Mar 2020 18:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 3558
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

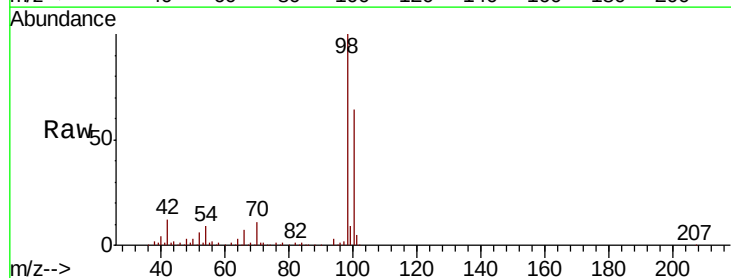


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

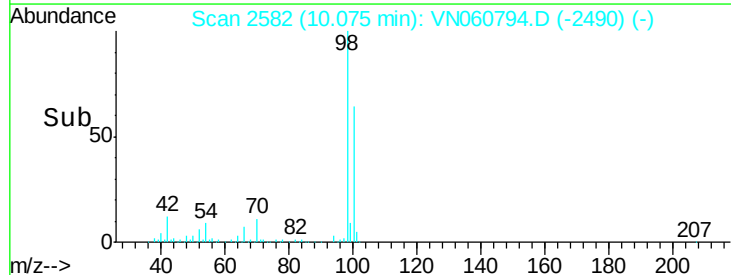
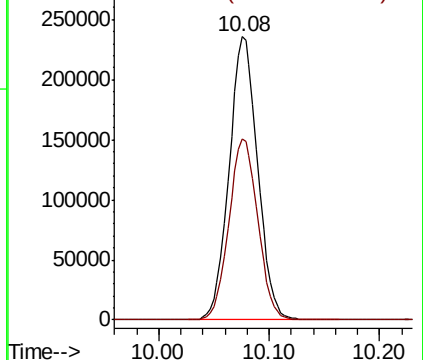


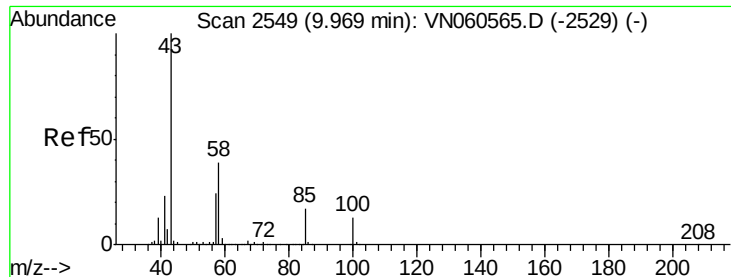
#50
Toluene-d8
Concen: 50.644 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060794.D
Acq: 31 Mar 2020 18:21

Tgt Ion: 98 Resp: 422476
Ion Ratio Lower Upper
98 100
100 64.9 51.8 77.8



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

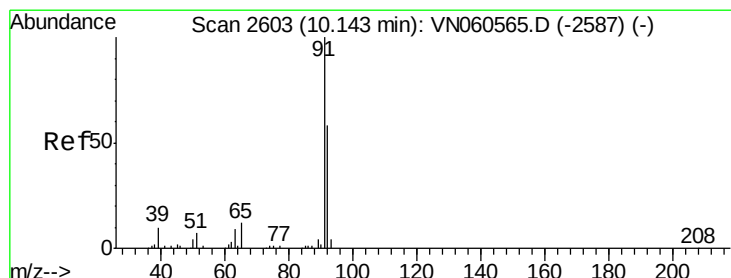
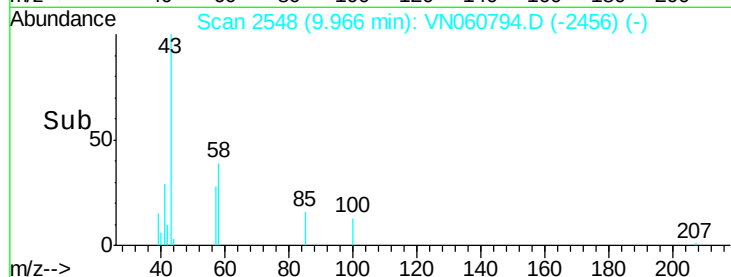
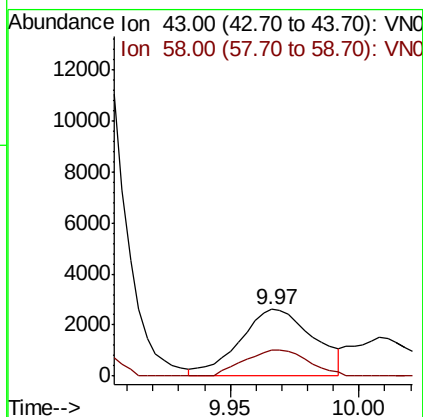
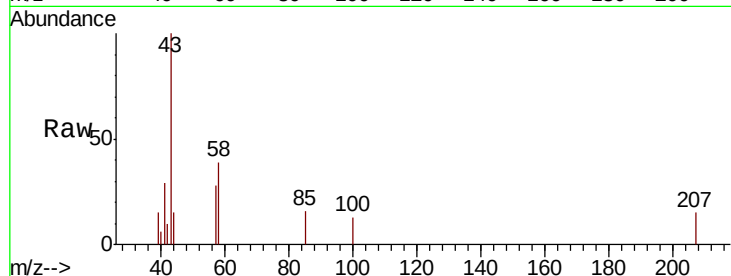




#51
 4-Methyl-2-Pentanone
 Concen: 1.585 ug/l
 RT: 9.97 min Scan# 2548
 Delta R.T. -0.00 min
 Lab File: VN060794.D
 Acq: 31 Mar 2020 18:21

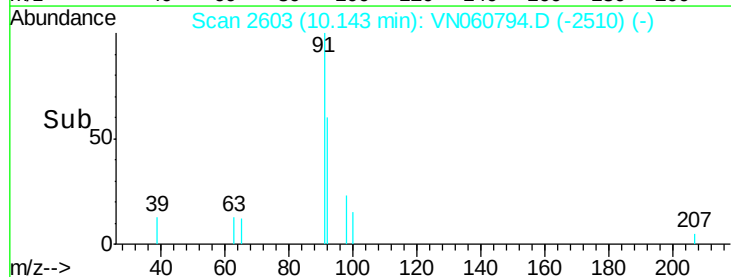
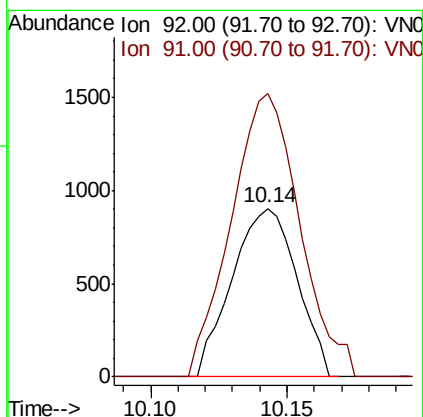
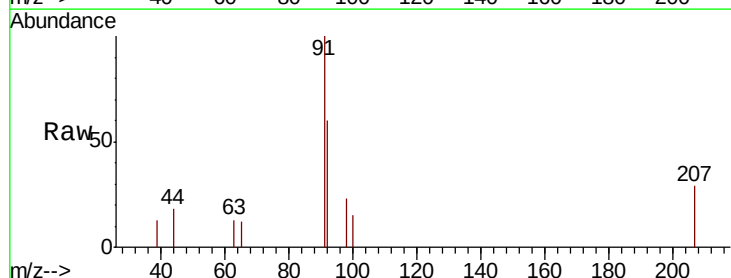
Instrument :
 MSVOA_N
 ClientSampled :

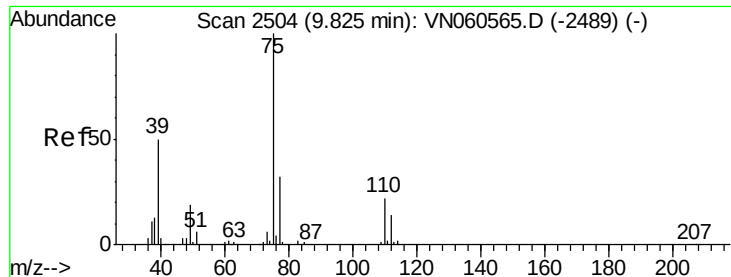
Tot Ion: 43 Resp: 5255
 Ion Ratio Lower Upper
 43 100
 58 33.9 30.8 46.2



#52
 Toluene
 Concen: 0.250 ug/l
 RT: 10.14 min Scan# 2603
 Delta R.T. 0.00 min
 Lab File: VN060794.D
 Acq: 31 Mar 2020 18:21

Tgt Ion: 92 Resp: 1490
 Ion Ratio Lower Upper
 92 100
 91 178.3 137.6 206.4





#54

cis-1,3-Dichloropropene

Concen: 6.272 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060794.D

Acq: 31 Mar 2020 18:21

Instrument :

MSVOA_N

ClientSampleId :

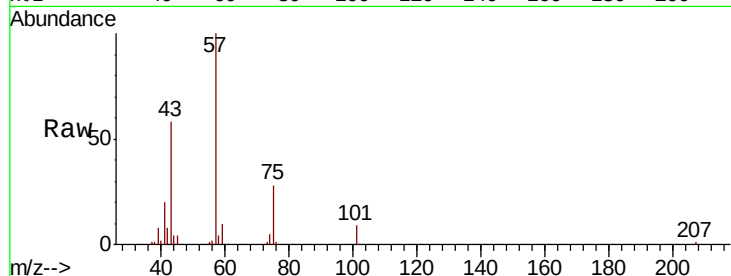
Tot Ion: 75 Resp: 25867

Ion Ratio Lower Upper

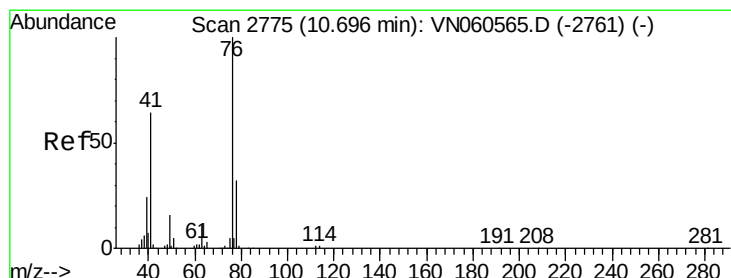
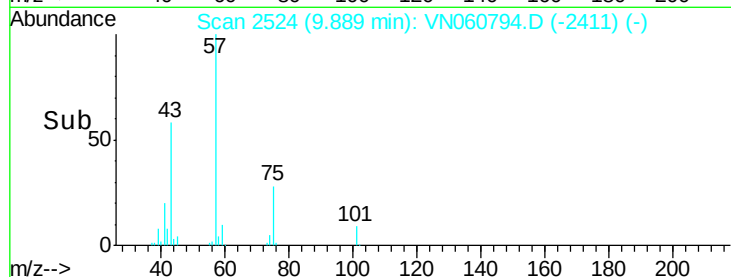
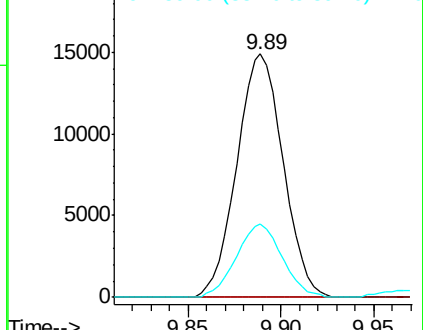
75 100

77 0.0 25.4 38.0#

39 29.9 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.130 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060794.D

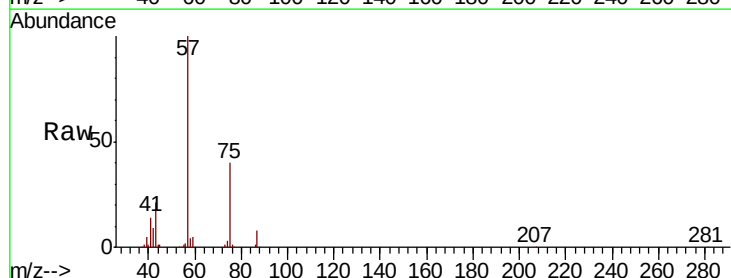
Acq: 31 Mar 2020 18:21

Tgt Ion: 76 Resp: 4500

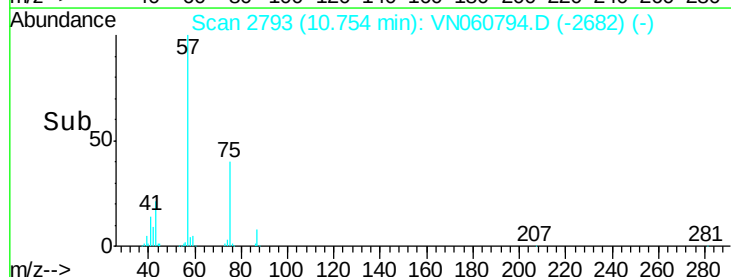
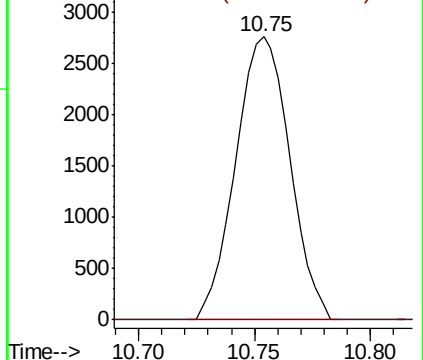
Ion Ratio Lower Upper

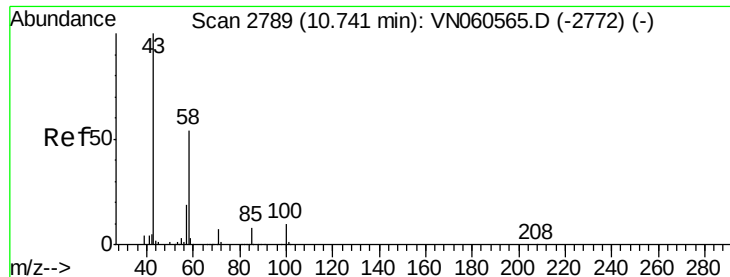
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0

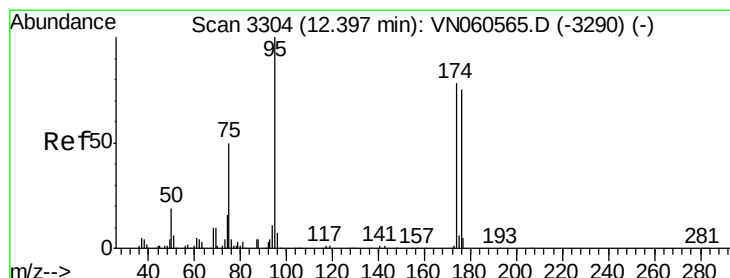
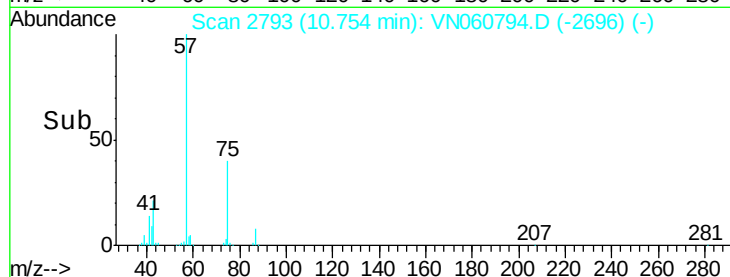
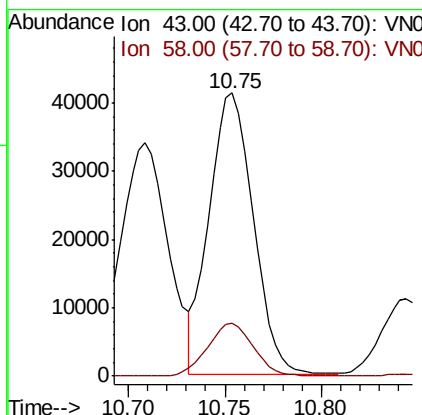
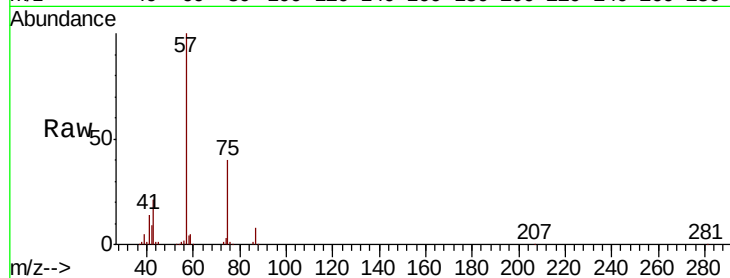




#59
2-Hexanone
Concen: 27.563 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060794.D
Acq: 31 Mar 2020 18:21

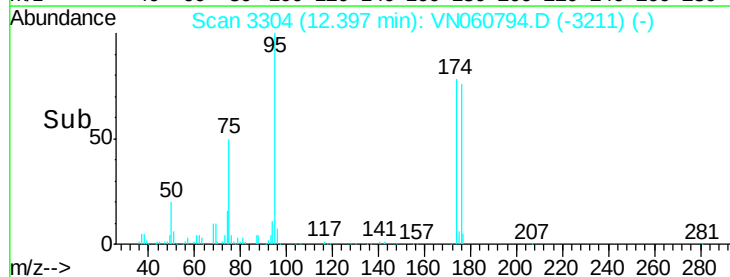
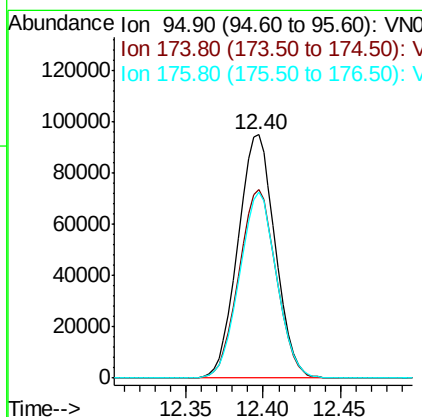
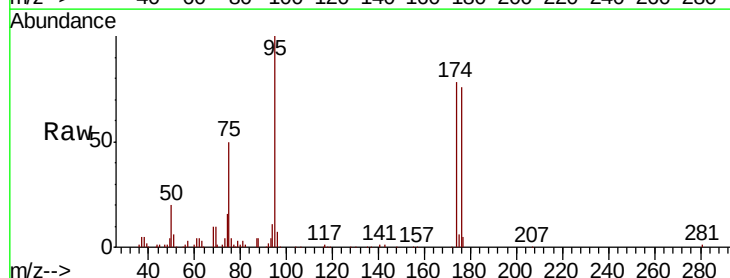
Instrument :
MSVOA_N
ClientSampleId :

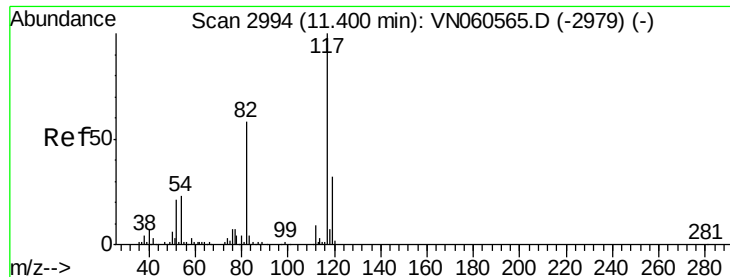
Tot Ion: 43 Resp: 65847
Ion Ratio Lower Upper
43 100
58 19.3 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 52.102 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060794.D
Acq: 31 Mar 2020 18:21

Tgt Ion: 95 Resp: 159288
Ion Ratio Lower Upper
95 100
174 77.7 0.0 157.6
176 75.8 0.0 150.6

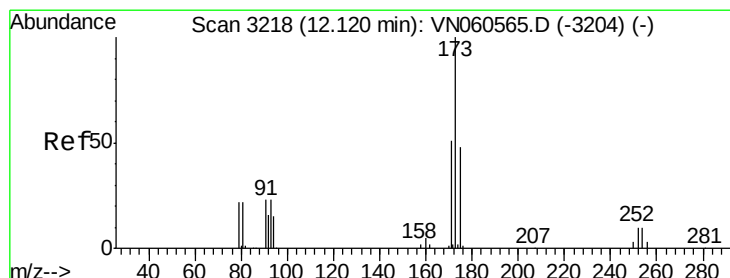
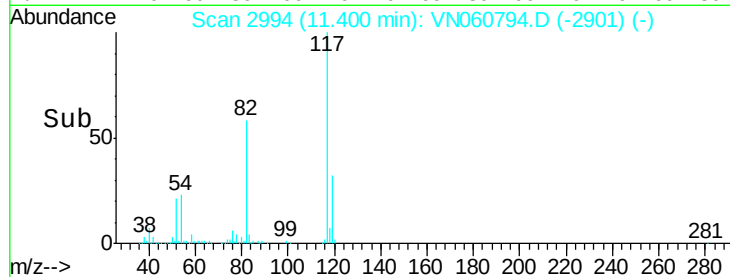
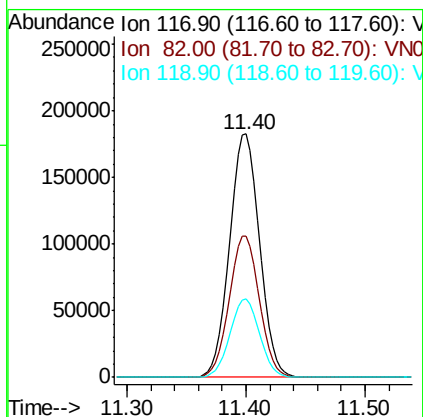
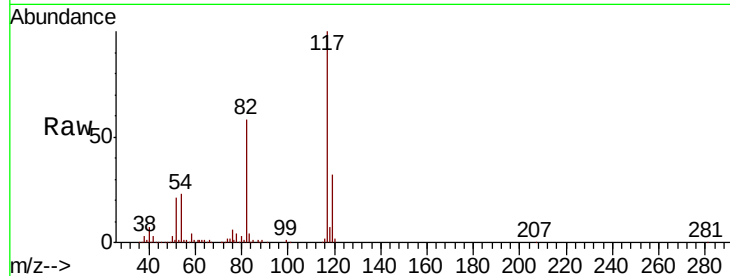




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060794.D
Acq: 31 Mar 2020 18:21

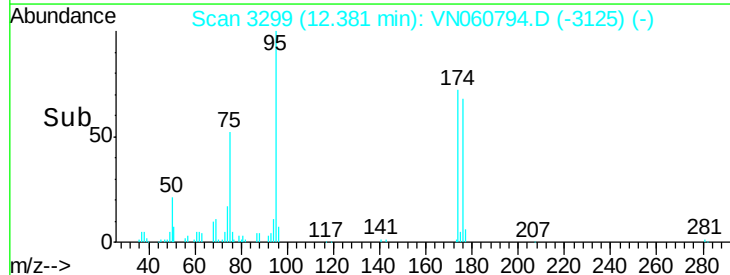
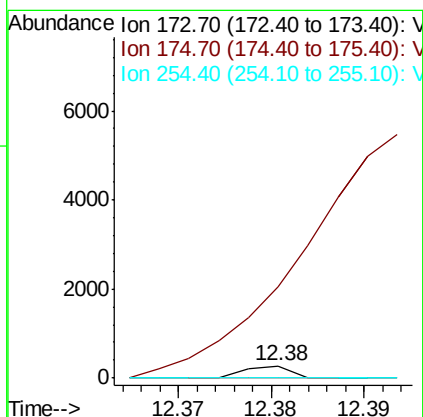
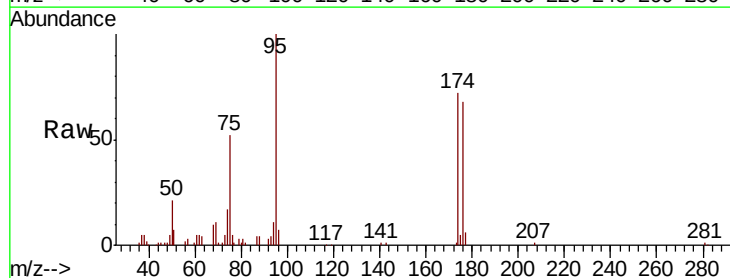
Instrument :
MSVOA_N
ClientSampled :

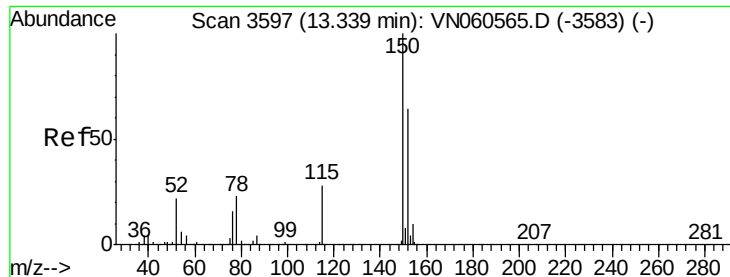
Tot Ion:117 Resp: 319265
Ion Ratio Lower Upper
117 100
82 58.1 46.7 70.1
119 32.1 25.5 38.3



#71
Bromoform
Concen: 1.727 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.26 min
Lab File: VN060794.D
Acq: 31 Mar 2020 18:21

Tgt Ion:173 Resp: 91
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060794.D

Acq: 31 Mar 2020 18:21

Instrument :

MSVOA_N

ClientSampleId :

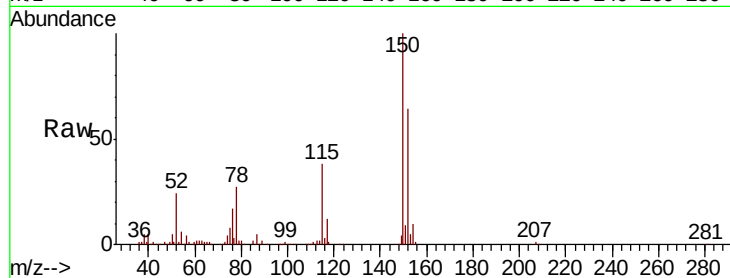
Tot Ion:152 Resp: 149368

Ion Ratio Lower Upper

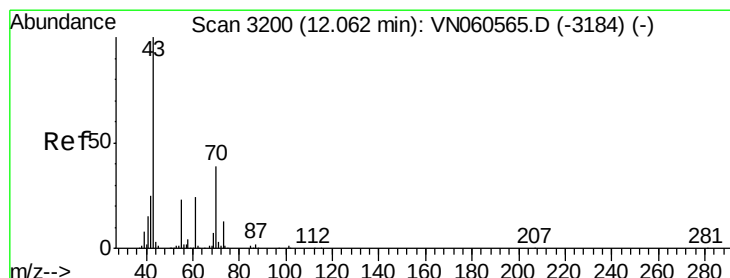
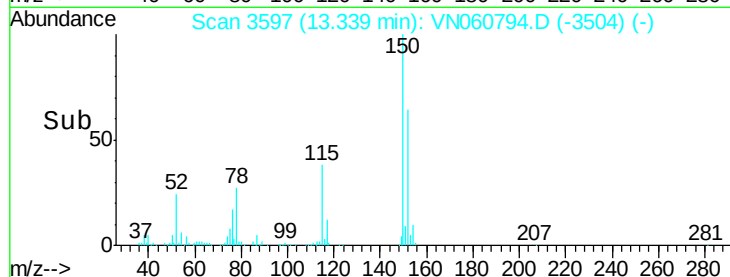
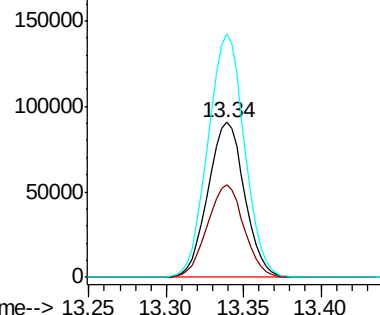
152 100

115 59.6 30.2 90.6

150 156.5 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-ethyl acetate

Concen: 0.676 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060794.D

Acq: 31 Mar 2020 18:21

Tgt Ion: 43 Resp: 3501

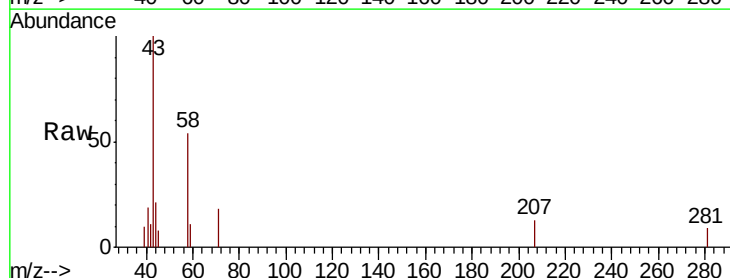
Ion Ratio Lower Upper

43 100

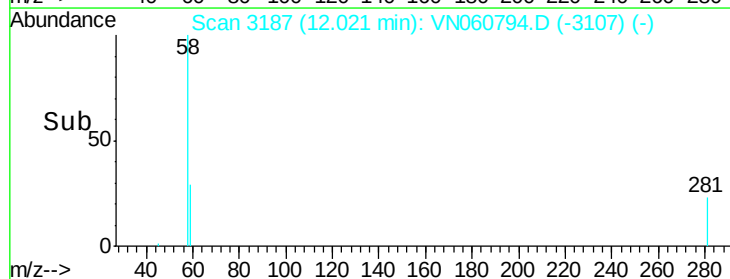
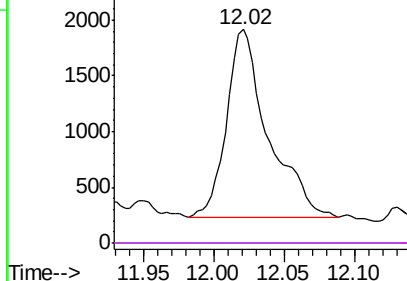
70 0.0 31.1 46.7#

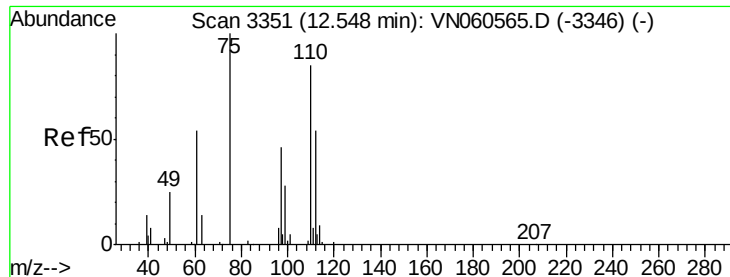
55 0.0 18.6 27.8#

61 0.0 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): 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: 24.879 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060794.D

Acq: 31 Mar 2020 18:21

Instrument :

MSVOA_N

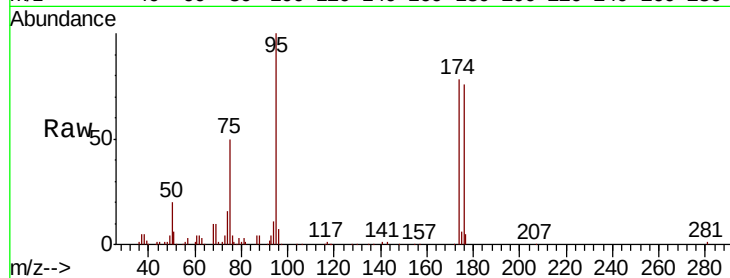
ClientSampleId :

Tot Ion: 75 Resp: 80185

Ion Ratio Lower Upper

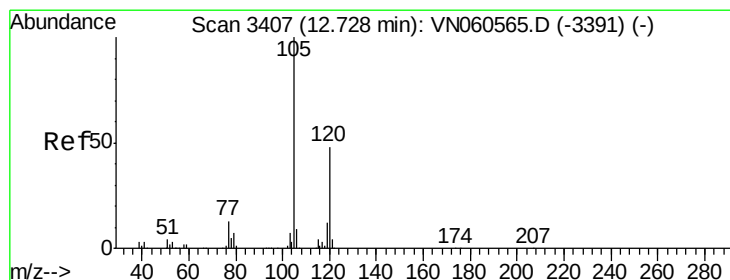
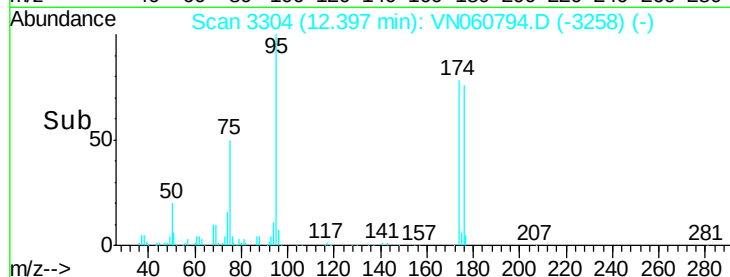
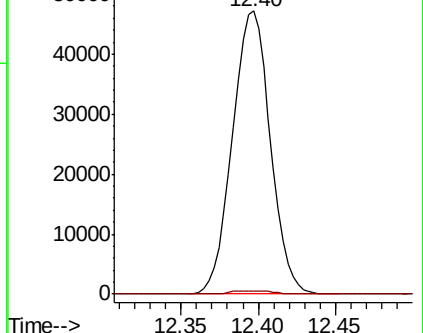
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060794.D (-3258) (-)

Ion 77.00 (76.70 to 77.70): VN060794.D (-3258) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.464 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060794.D

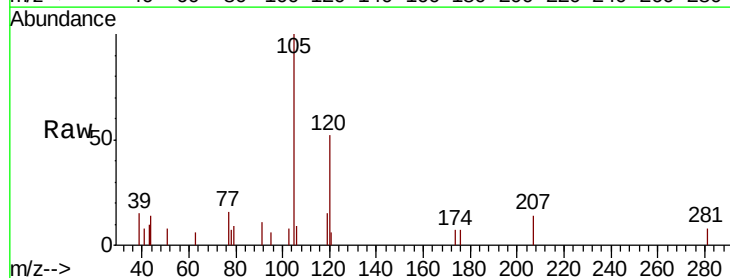
Acq: 31 Mar 2020 18:21

Tgt Ion: 105 Resp: 4412

Ion Ratio Lower Upper

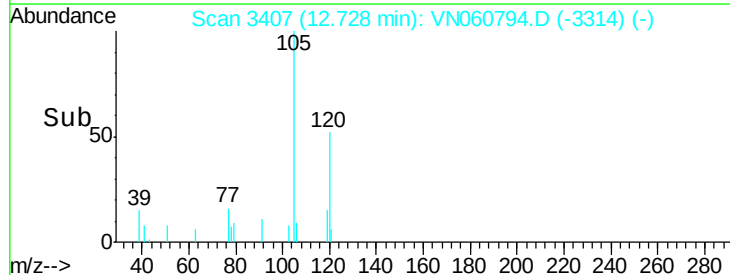
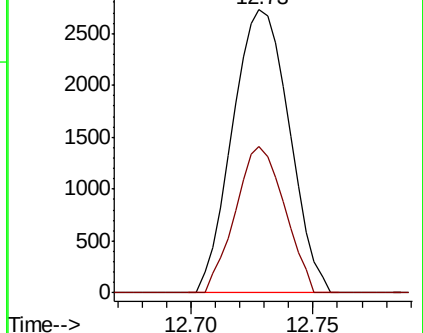
105 100

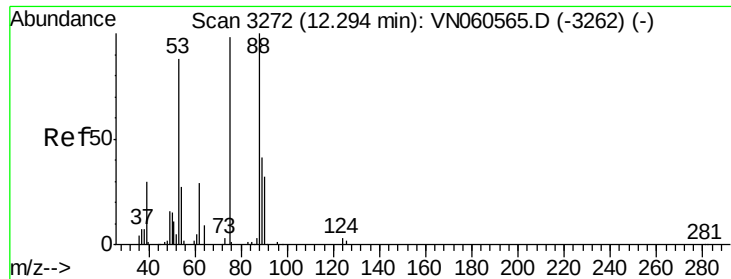
120 44.8 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): VN060794.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN060794.D (-3314) (-)





#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.896 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060794.D
 Acq: 31 Mar 2020 18:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 80185
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#

