

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033120\
 Data File : VN060786.D
 Acq On : 31 Mar 2020 15:20
 Operator : JC/MD
 Sample : L1759-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 01 08:23:27 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	210758	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	355332	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	334424	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	154813	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	136820	47.29	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.58%	
35) Dibromofluoromethane	7.56	113	103684	48.26	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.52%	
50) Toluene-d8	10.08	98	438823	50.00	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.00%	
62) 4-Bromofluorobenzene	12.40	95	164863	51.26	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.52%	

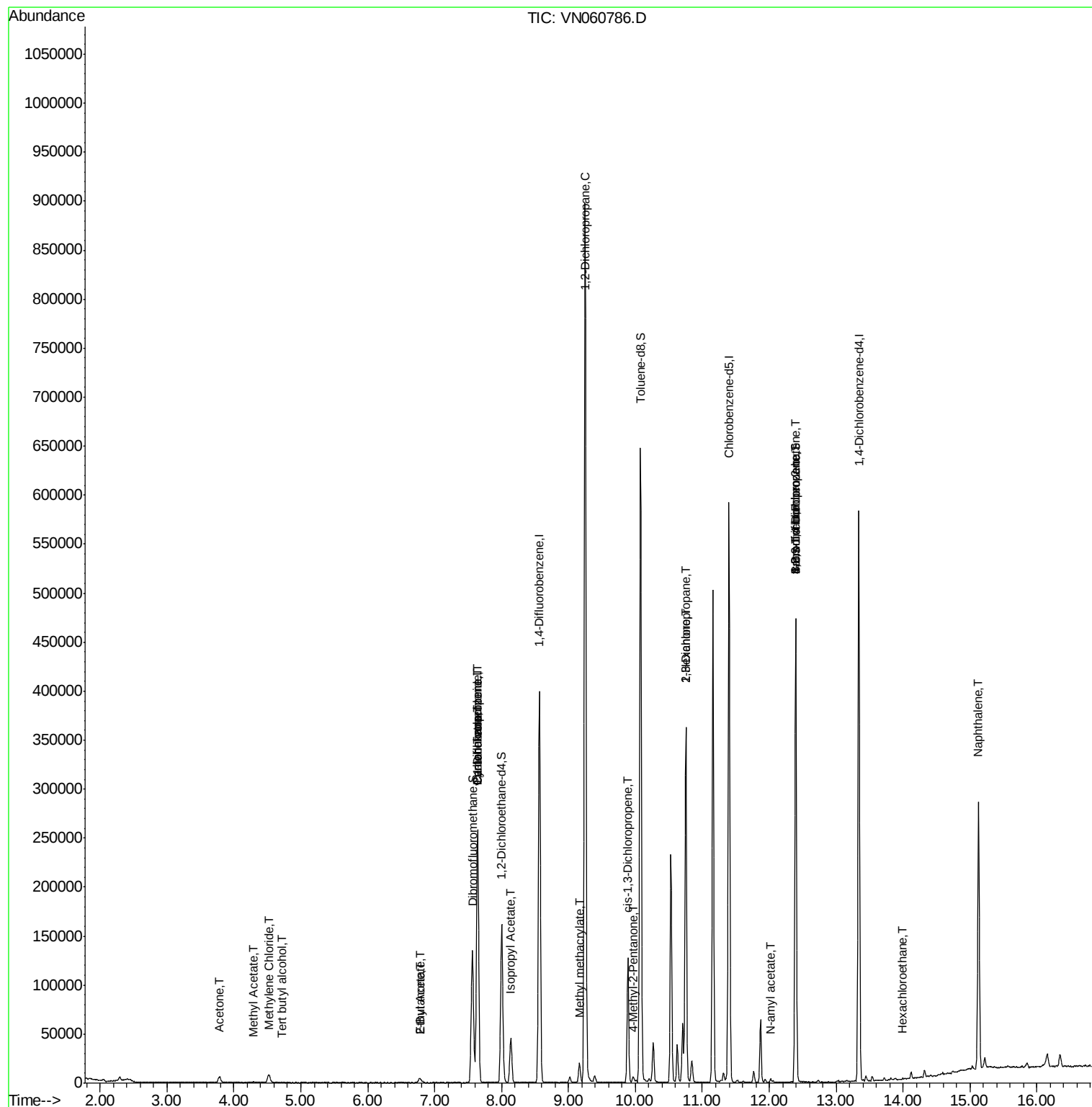
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	91	0.214	ug/l #	72
16) Acetone	3.78	43	10891	10.627	ug/l	95
18) Methyl Acetate	4.29	43	1925	0.667	ug/l #	65
20) Methylene Chloride	4.52	84	6418	2.546	ug/l	93
25) 2-Butanone	6.80	43	1150	0.693	ug/l	91
31) Cyclohexane	7.64	56	4404	0.945	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	16982	4.936	ug/l #	49
37) Ethyl Acetate	6.80	43	1150	0.309	ug/l #	70
38) Carbon Tetrachloride	7.64	117	20622	6.687	ug/l #	16
43) Isopropyl Acetate	8.14	43	54216	8.842	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1106	0.404	ug/l #	43
48) Methyl methacrylate	9.16	41	2924	1.071	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4348	1.246	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	22123	5.099	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3531	0.843	ug/l #	42
59) 2-Hexanone	10.75	43	53323	21.216	ug/l #	53
71) Bromoform	12.40	173	236	1.795	ug/l #	1
74) N-amyl acetate	12.02	43	3766	0.701	ug/l #	46
76) 1,2,3-Trichloropropane	12.39	75	84247	25.220	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	84247	64.771	ug/l #	13
90) Hexachloroethane	13.99	117	390	0.271	ug/l #	8
95) Naphthalene	15.13	128	230511	26.433	ug/l	100

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 18 08:49:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060786.D

Acq: 31 Mar 2020 15:20

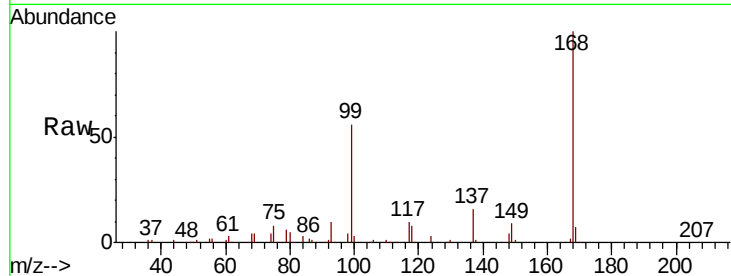
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 210758

Ion Ratio Lower Upper

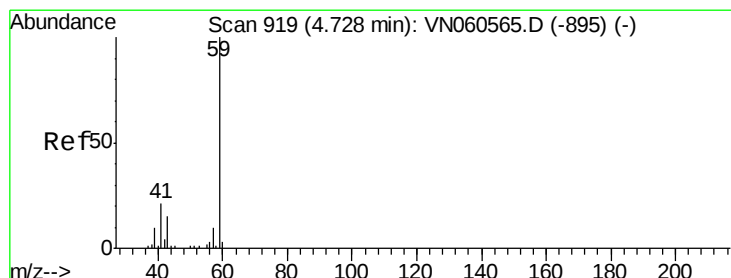
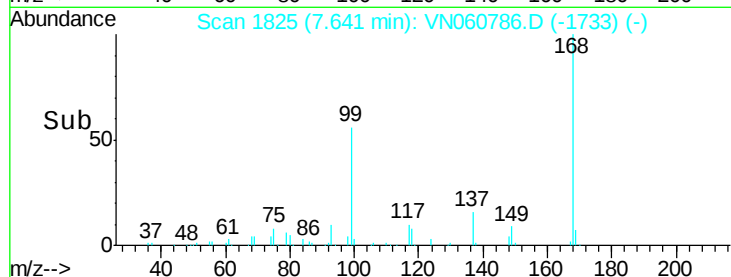
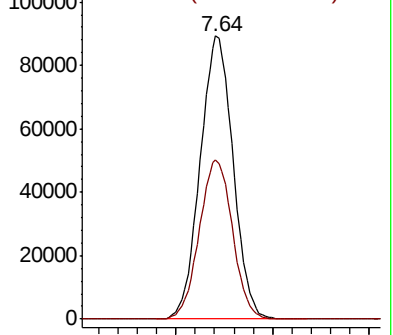
168 100

99 56.3 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.214 ug/l

RT: 4.72 min Scan# 918

Delta R.T. -0.00 min

Lab File: VN060786.D

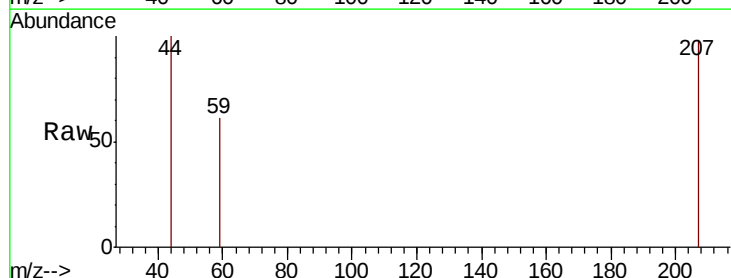
Acq: 31 Mar 2020 15:20

Tgt Ion: 59 Resp: 91

Ion Ratio Lower Upper

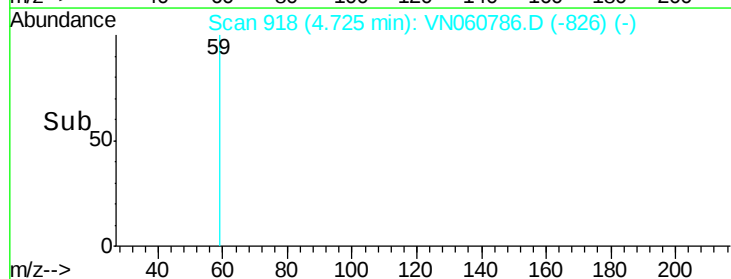
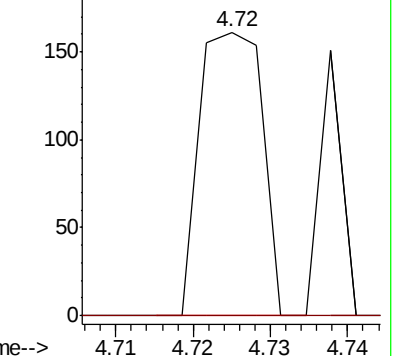
59 100

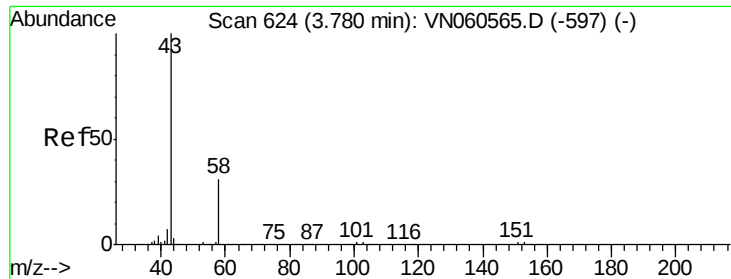
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 10.627 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060786.D

Acq: 31 Mar 2020 15:20

Instrument :

MSVOA_N

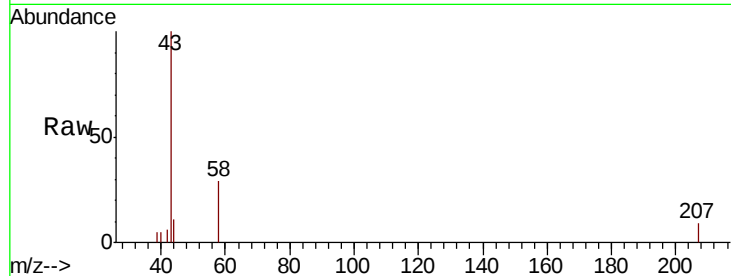
ClientSampleId :

Tot Ion: 43 Resp: 10891

Ion Ratio Lower Upper

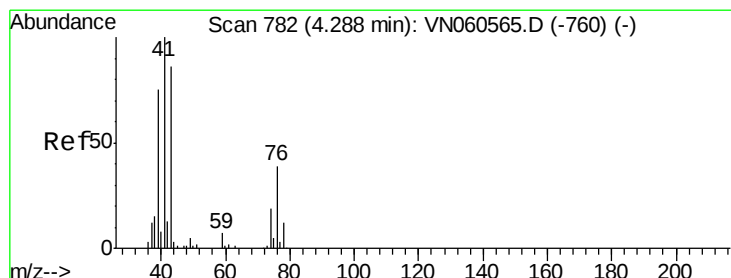
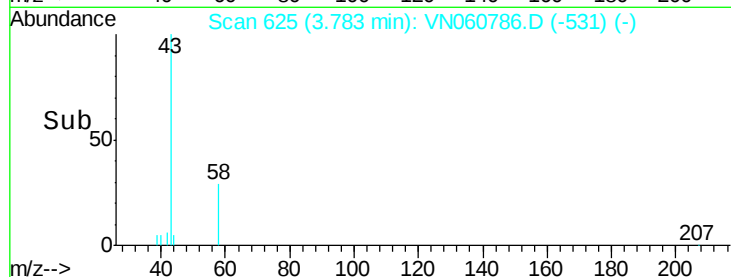
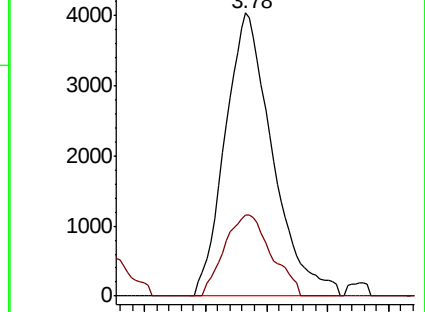
43 100

58 28.7 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060786.D (-625) (-)

Ion 58.00 (57.70 to 58.70): VN060786.D (-625) (-)



#18

Methyl Acetate

Concen: 0.667 ug/l

RT: 4.29 min Scan# 782

Delta R.T. -0.00 min

Lab File: VN060786.D

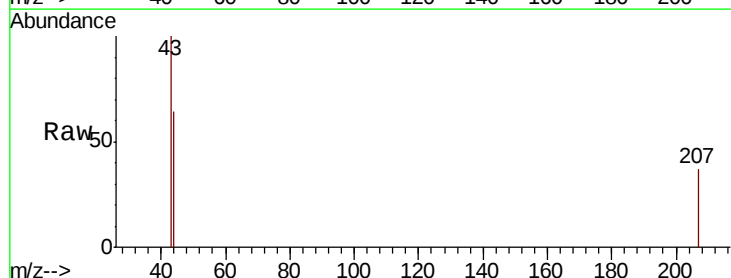
Acq: 31 Mar 2020 15:20

Tgt Ion: 43 Resp: 1925

Ion Ratio Lower Upper

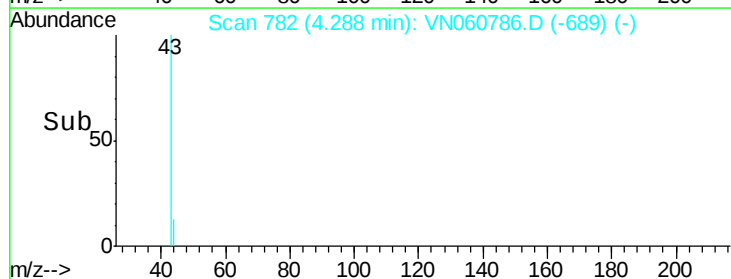
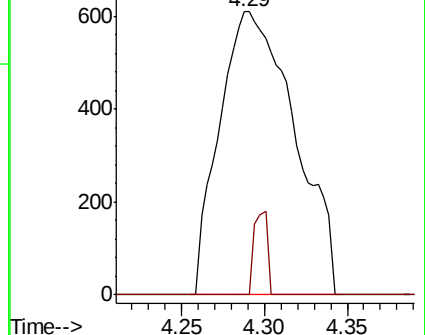
43 100

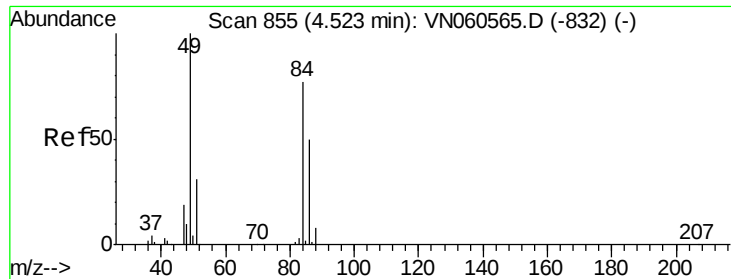
74 5.1 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060786.D (-782) (-)

Ion 74.00 (73.70 to 74.70): VN060786.D (-782) (-)

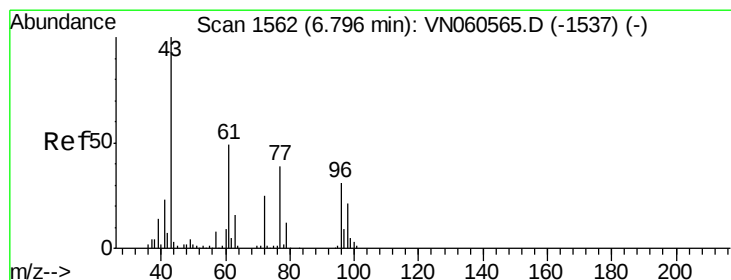
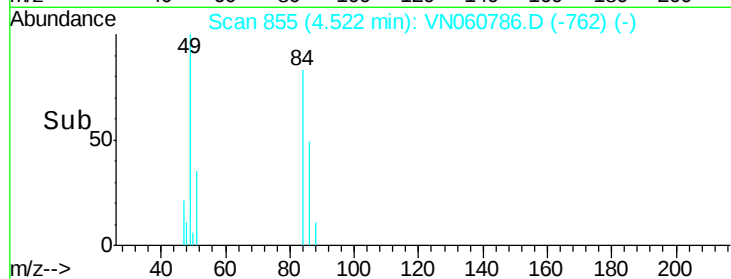
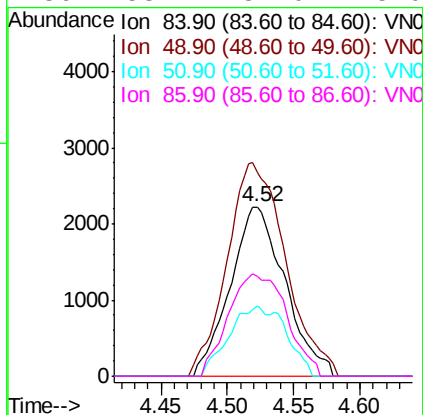
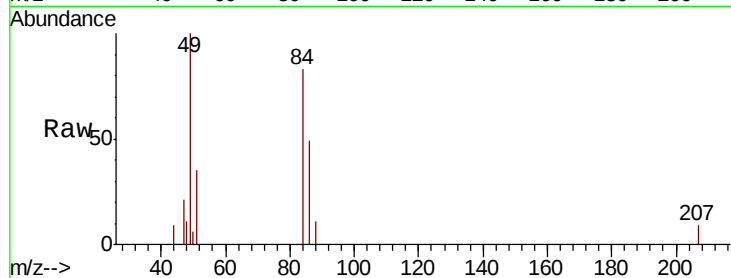




#20
Methylene Chloride
Concen: 2.546 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060786.D
Acq: 31 Mar 2020 15:20

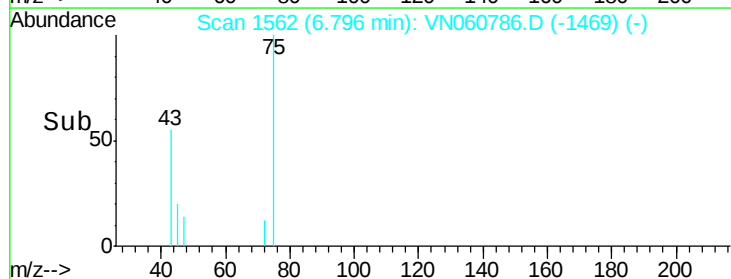
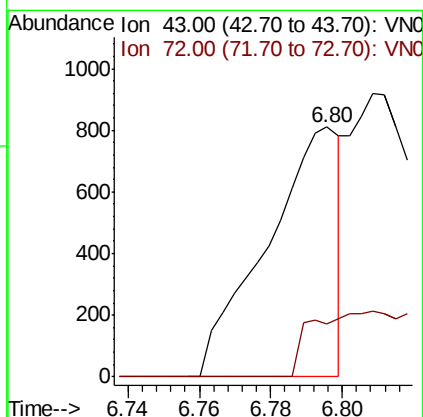
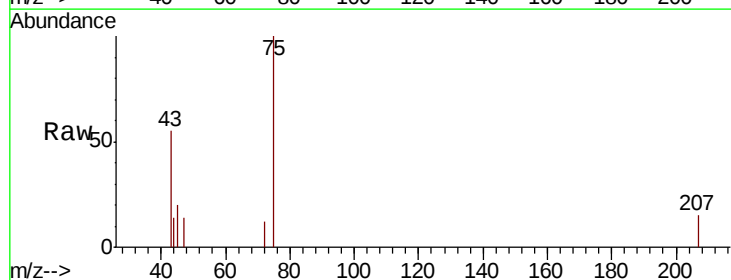
Instrument :
MSVOA_N
ClientSampleId :

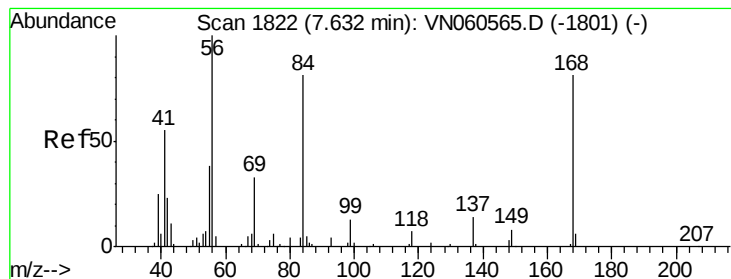
Tot Ion: 84 Resp: 6418
Ion Ratio Lower Upper
84 100
49 120.5 103.3 154.9
51 41.6 31.6 47.4
86 58.7 52.0 78.0



#25
2-Butanone
Concen: 0.693 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.00 min
Lab File: VN060786.D
Acq: 31 Mar 2020 15:20

Tgt Ion: 43 Resp: 1150
Ion Ratio Lower Upper
43 100
72 21.0 20.4 30.6





#31

Cyclohexane

Concen: 0.945 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060786.D

Acq: 31 Mar 2020 15:20

Instrument :

MSVOA_N

ClientSampled :

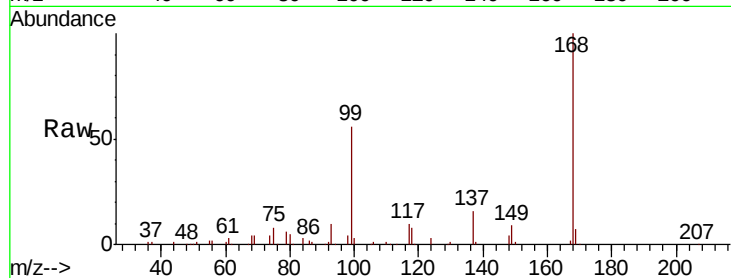
Tot Ion: 56 Resp: 4404

Ion Ratio Lower Upper

56 100

69 174.9 26.6 40.0#

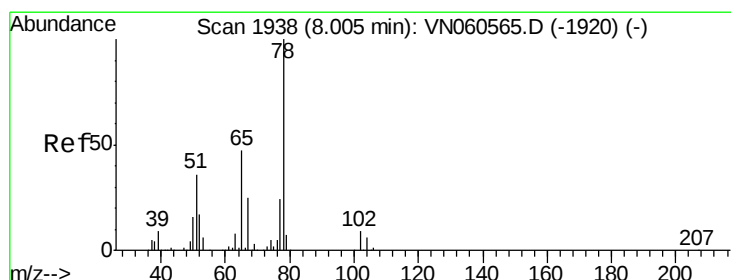
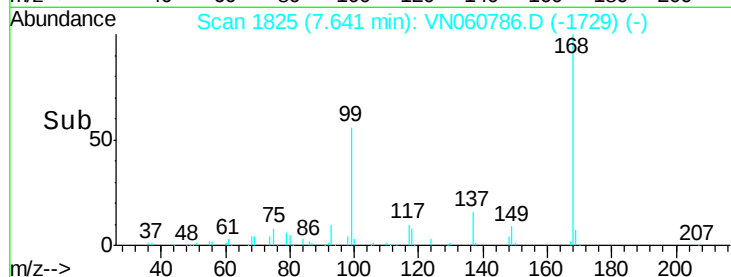
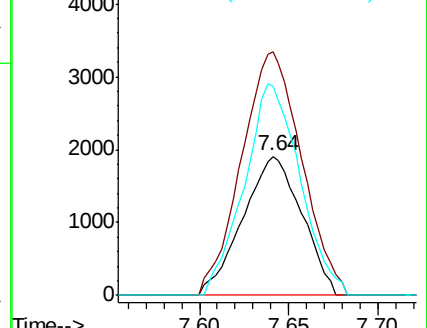
84 150.3 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN060786.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN060786.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN060786.D (-1801) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.290 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060786.D

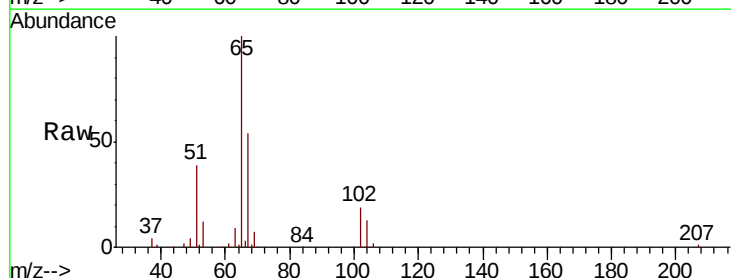
Acq: 31 Mar 2020 15:20

Tgt Ion: 65 Resp: 136820

Ion Ratio Lower Upper

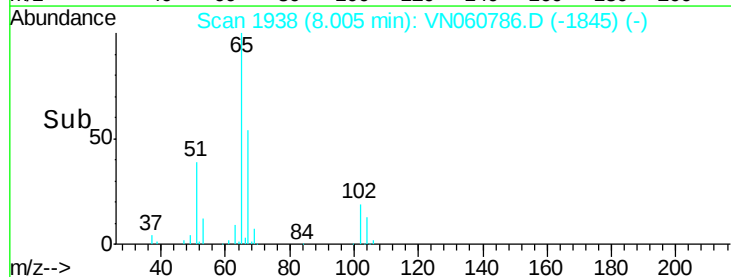
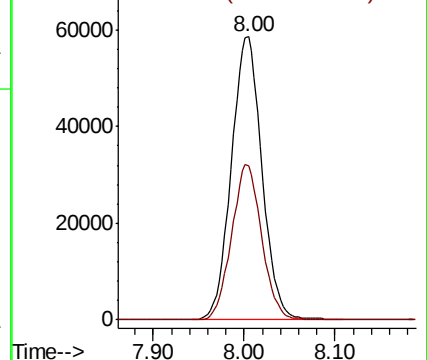
65 100

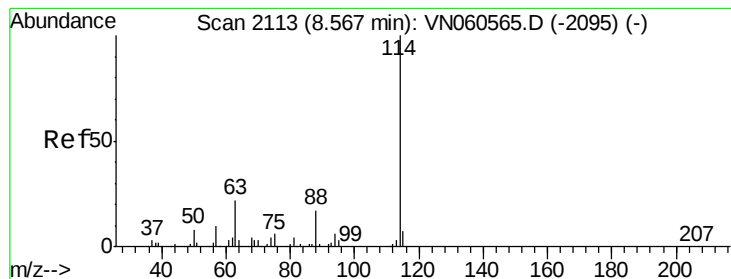
67 53.8 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN060786.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060786.D (-1845) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060786.D

Acq: 31 Mar 2020 15:20

Instrument :

MSVOA_N

ClientSampleId :

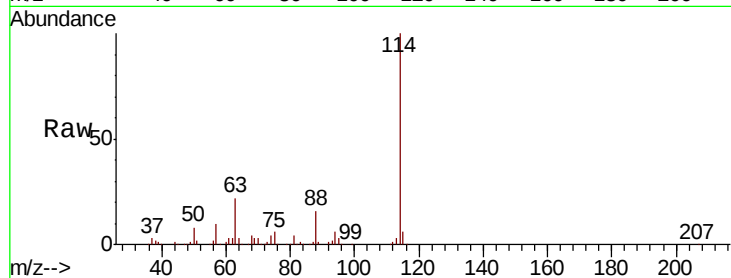
Tot Ion:114 Resp: 355332

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.8

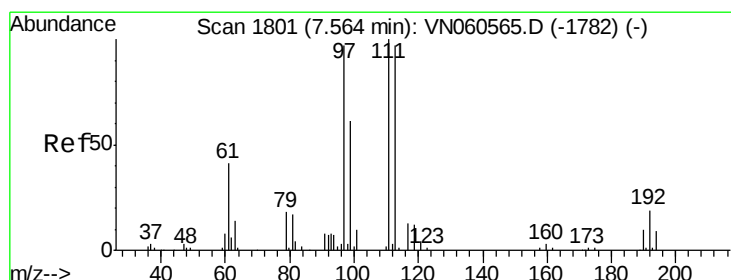
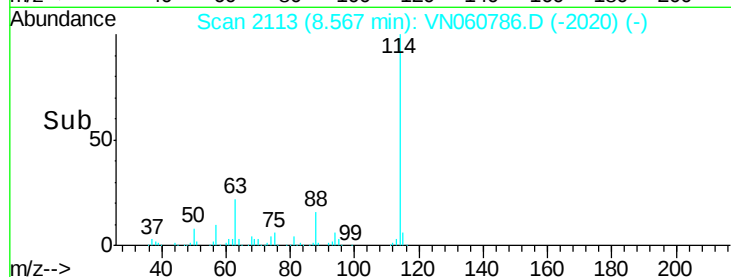
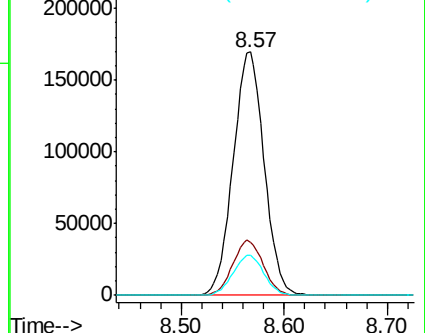
88 16.4 0.0 33.0



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: 48.257 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060786.D

Acq: 31 Mar 2020 15:20

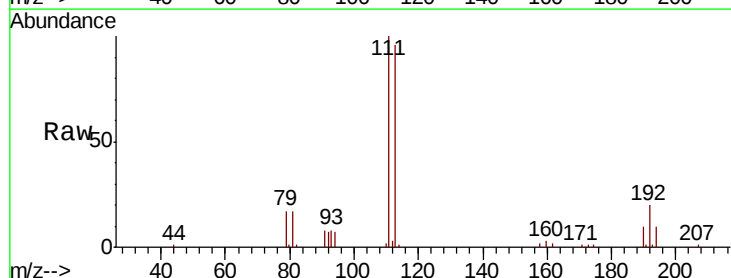
Tgt Ion:113 Resp: 103684

Ion Ratio Lower Upper

113 100

111 103.1 82.9 124.3

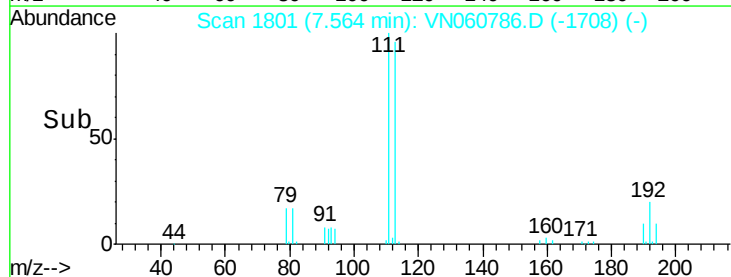
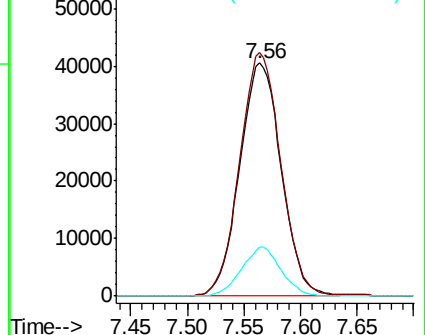
192 20.0 15.8 23.8

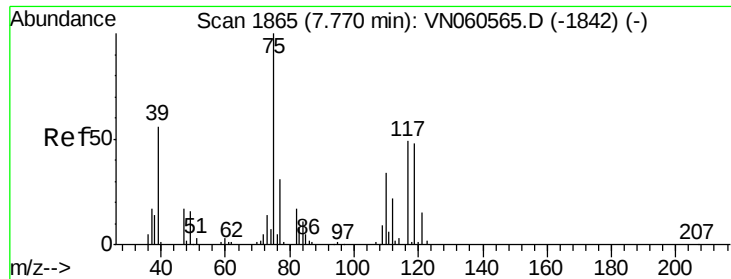


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

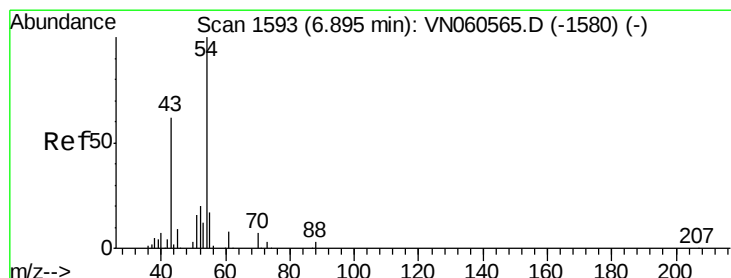
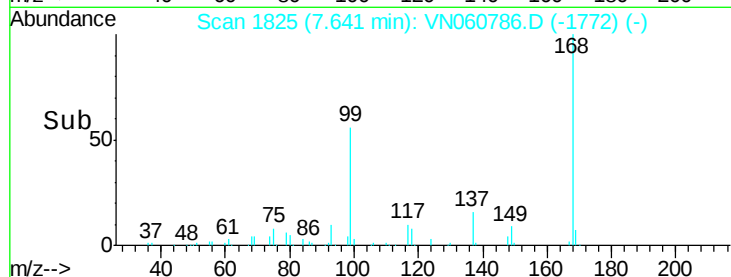
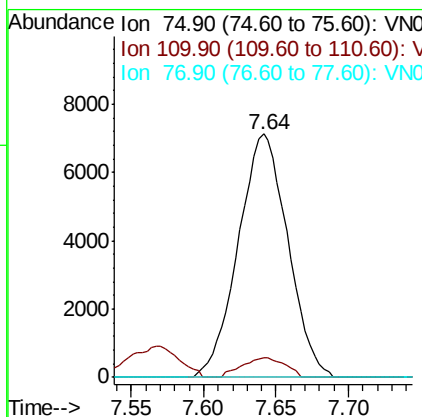
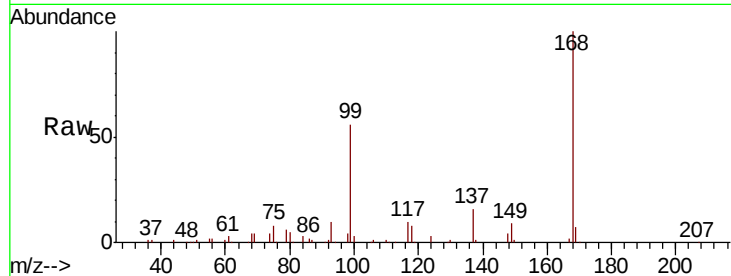




#36
 1,1-Dichloropropene
 Concen: 4.936 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060786.D
 Acq: 31 Mar 2020 15:20

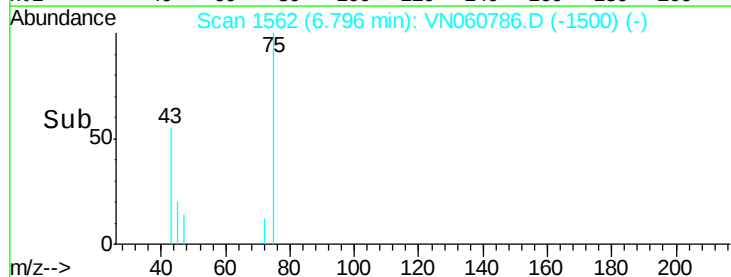
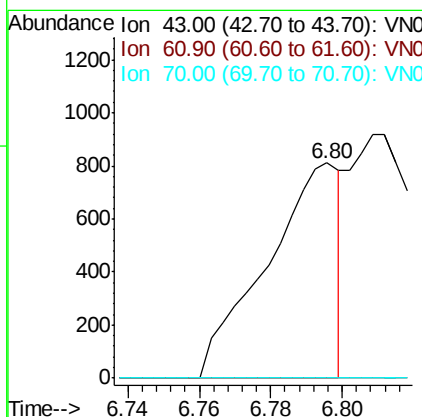
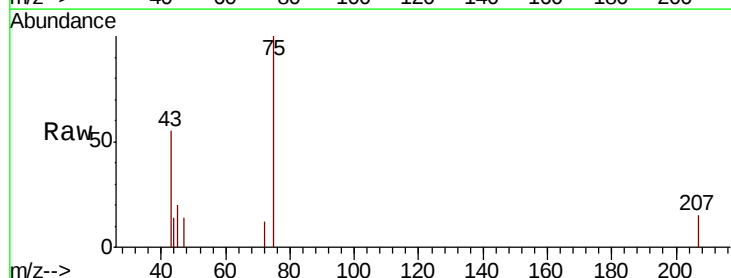
Instrument :
 MSVOA_N
 ClientSampled :

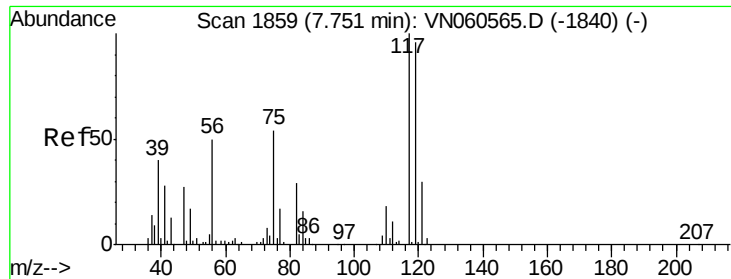
Tot Ion: 75 Resp: 16982
 Ion Ratio Lower Upper
 75 100
 110 6.9 16.9 50.6#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 0.309 ug/l
 RT: 6.80 min Scan# 1562
 Delta R.T. -0.10 min
 Lab File: VN060786.D
 Acq: 31 Mar 2020 15:20

Tgt Ion: 43 Resp: 1150
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 15.8#
 70 0.0 7.9 11.9#

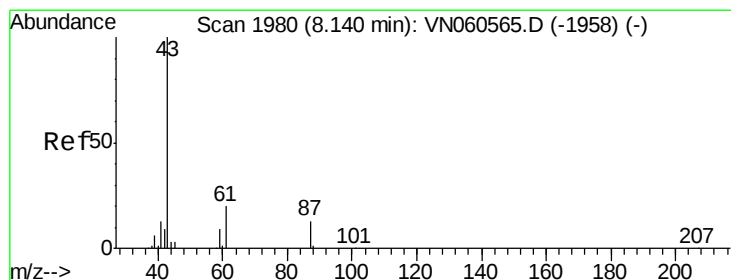
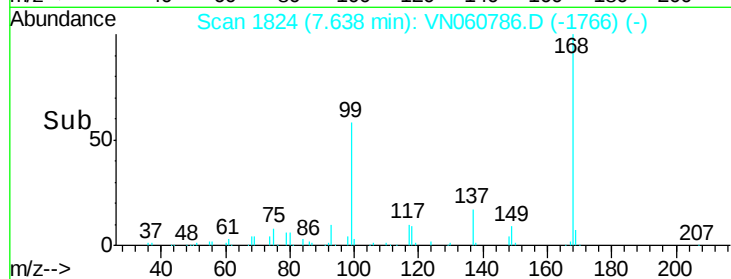
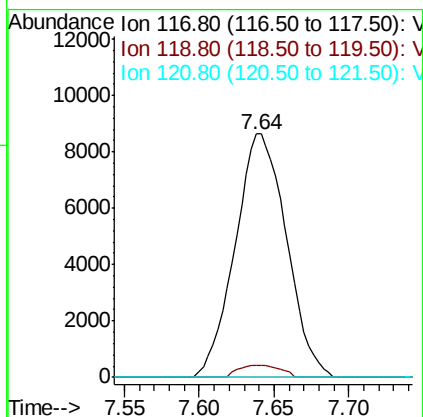
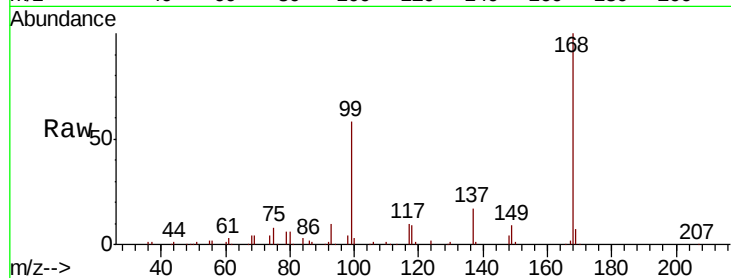




#38
Carbon Tetrachloride
Concen: 6.687 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. -0.11 min
Lab File: VN060786.D
Acq: 31 Mar 2020 15:20

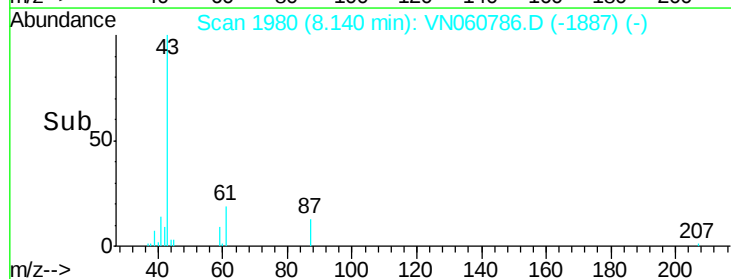
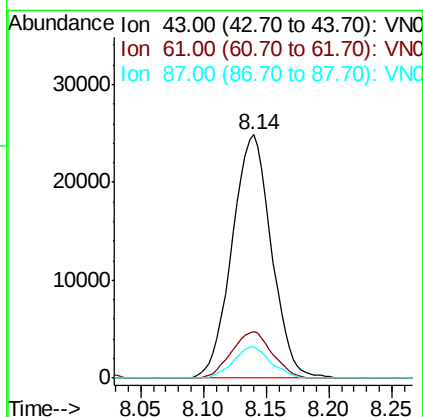
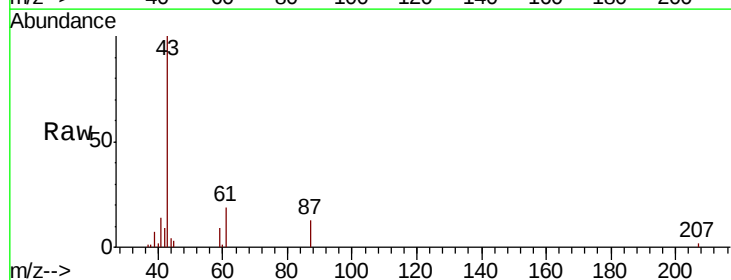
Instrument :
MSVOA_N
ClientSampled :

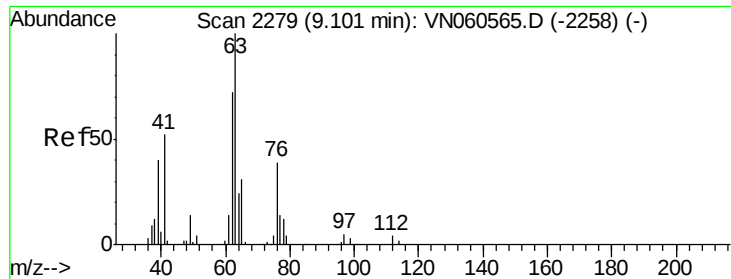
Tot Ion:117 Resp: 20622
Ion Ratio Lower Upper
117 100
119 5.0 76.2 114.2#
121 0.0 23.7 35.5#



#43
Isopropyl Acetate
Concen: 8.842 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. -0.00 min
Lab File: VN060786.D
Acq: 31 Mar 2020 15:20

Tgt Ion: 43 Resp: 54216
Ion Ratio Lower Upper
43 100
61 19.5 20.7 31.1#
87 12.0 9.8 14.8





#45

1,2-Dichloropropane

Concen: 0.404 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060786.D

Acq: 31 Mar 2020 15:20

Instrument :

MSVOA_N

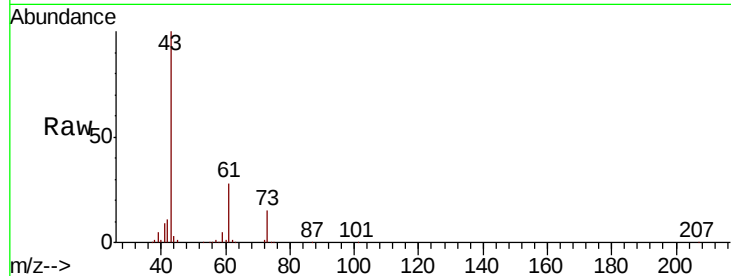
ClientSampleId :

Tot Ion: 63 Resp: 1106

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

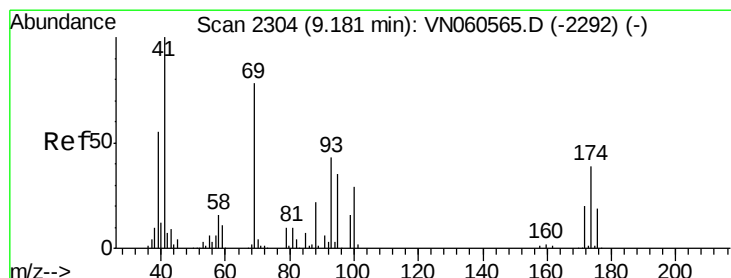
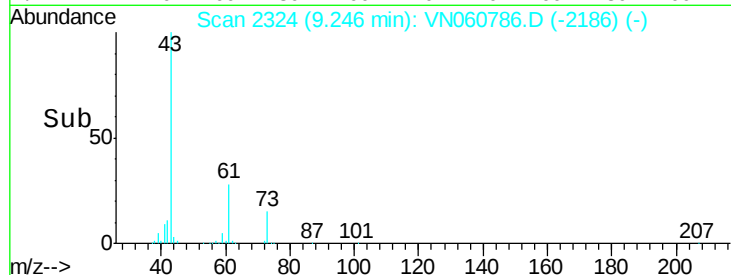
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.071 ug/l

RT: 9.16 min Scan# 2296

Delta R.T. -0.03 min

Lab File: VN060786.D

Acq: 31 Mar 2020 15:20

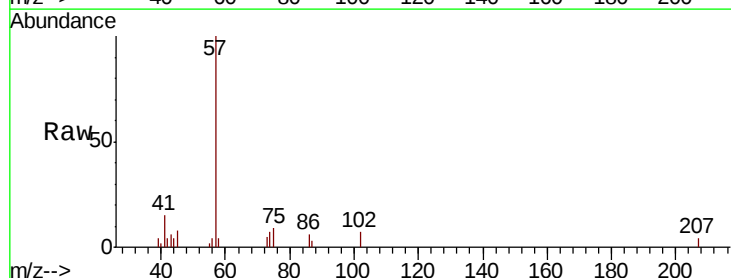
Tgt Ion: 41 Resp: 2924

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

40000

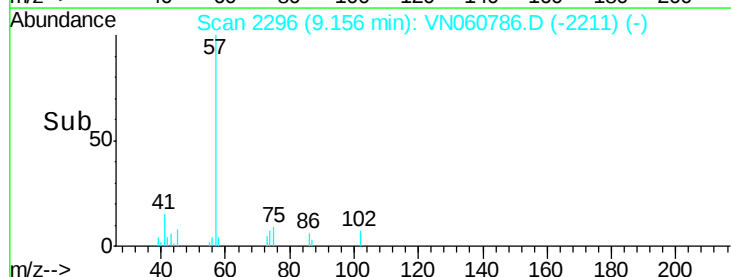
30000

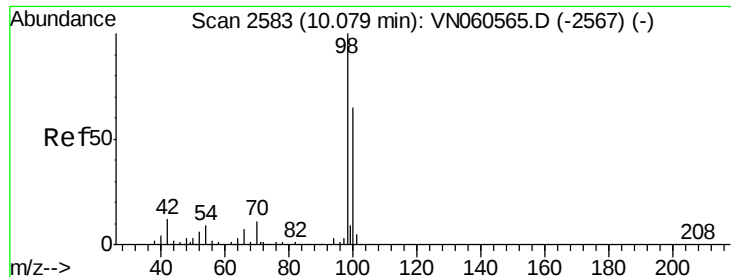
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 50.002 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060786.D

Acq: 31 Mar 2020 15:20

Instrument :

MSVOA_N

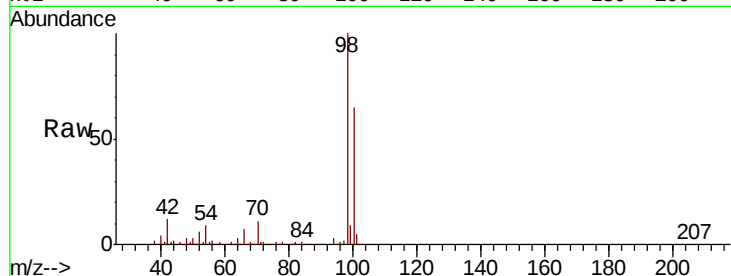
ClientSampled :

Tot Ion: 98 Resp: 438823

Ion Ratio Lower Upper

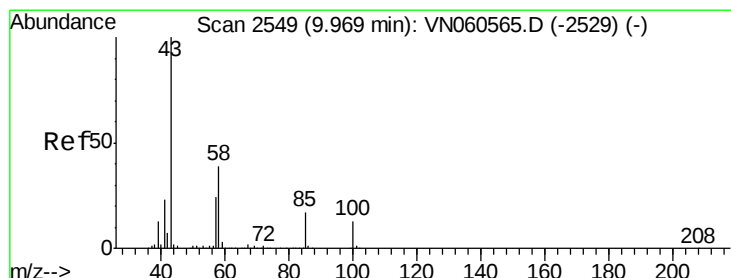
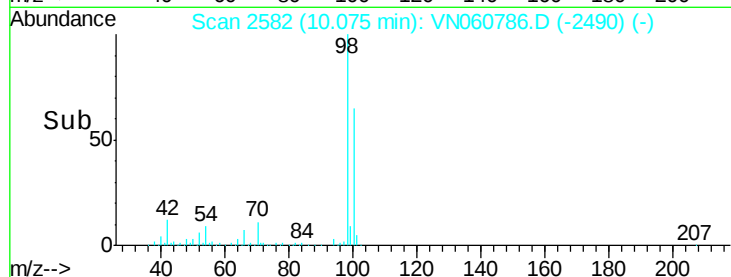
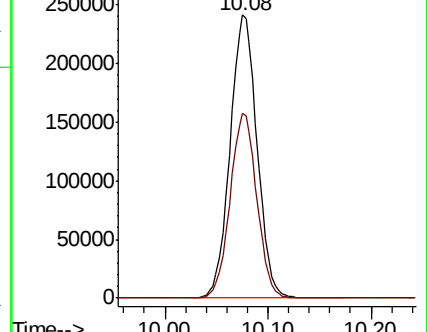
98 100

100 64.6 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN060565.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN060565.D (-2567) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.246 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060786.D

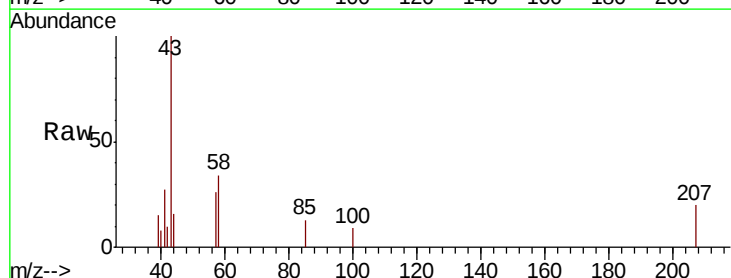
Acq: 31 Mar 2020 15:20

Tgt Ion: 43 Resp: 4348

Ion Ratio Lower Upper

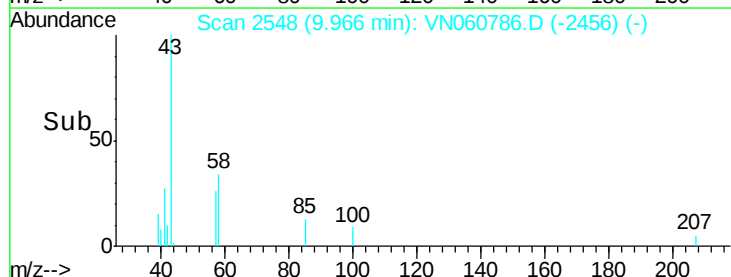
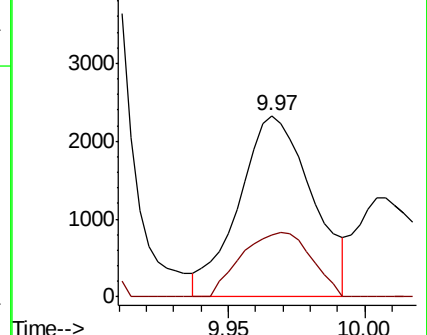
43 100

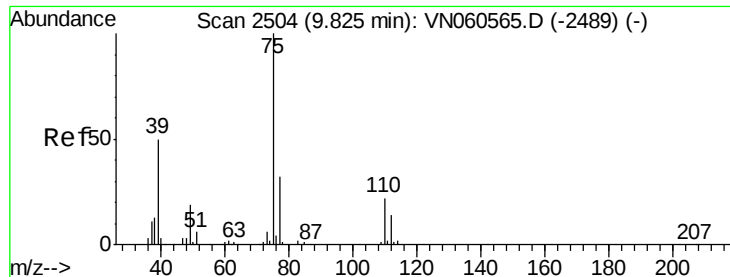
58 33.9 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-2529) (-)

Ion 58.00 (57.70 to 58.70): VN060565.D (-2529) (-)





#54

cis-1,3-Dichloropropene

Concen: 5.099 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060786.D

Acq: 31 Mar 2020 15:20

Instrument :

MSVOA_N

ClientSampleId :

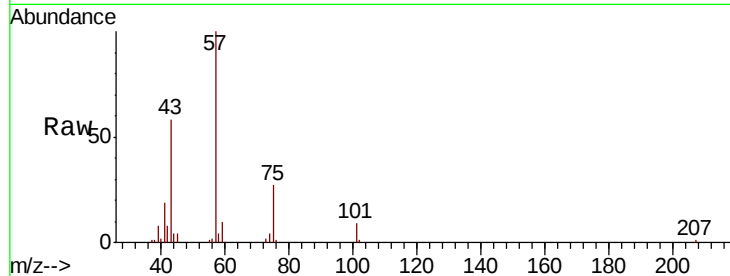
Tot Ion: 75 Resp: 22123

Ion Ratio Lower Upper

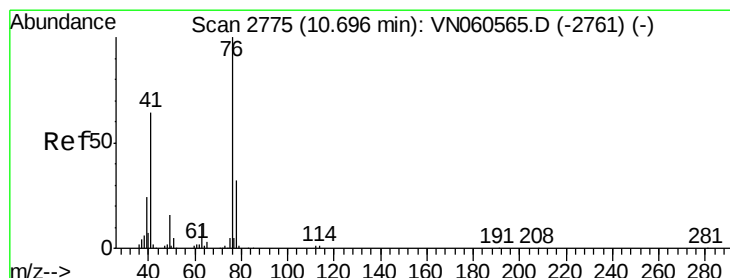
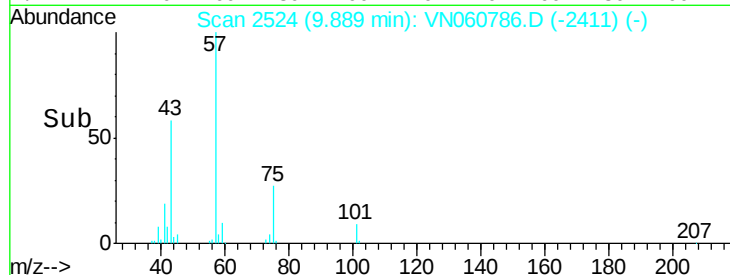
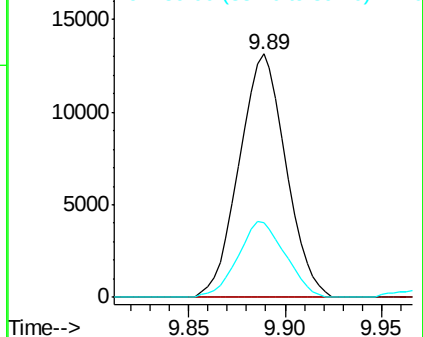
75 100

77 0.0 25.4 38.0#

39 30.9 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: 0.843 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060786.D

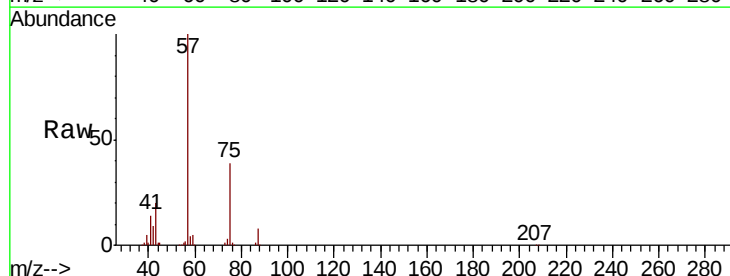
Acq: 31 Mar 2020 15:20

Tgt Ion: 76 Resp: 3531

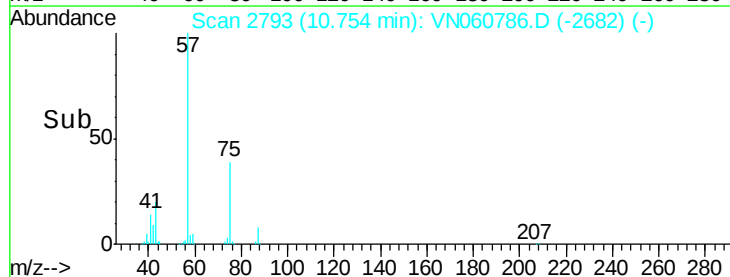
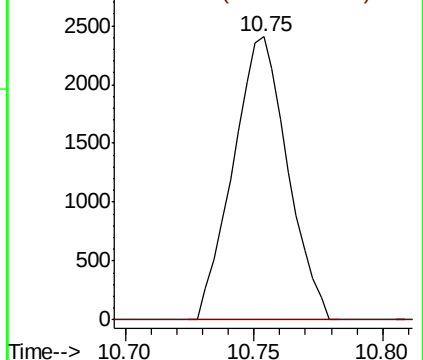
Ion Ratio Lower Upper

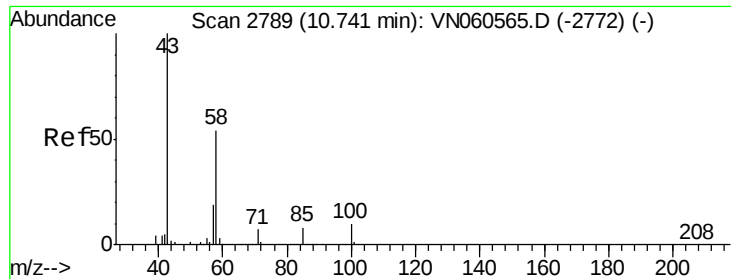
76 100

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

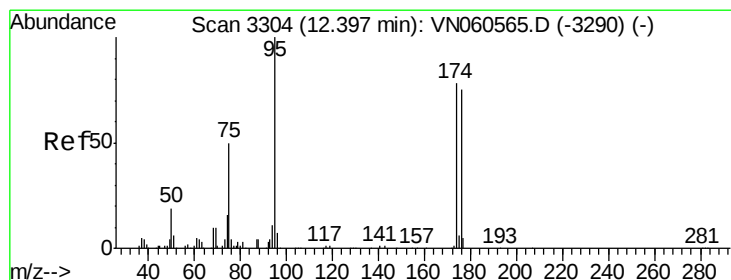
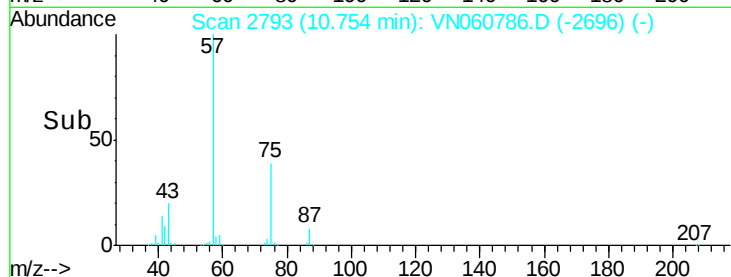
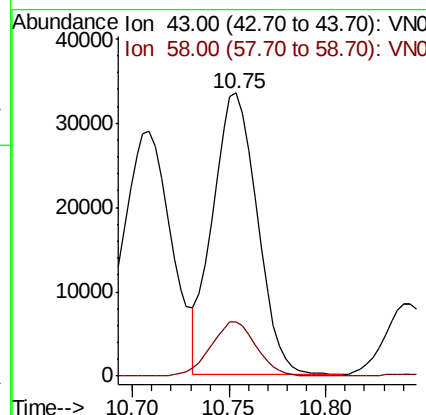
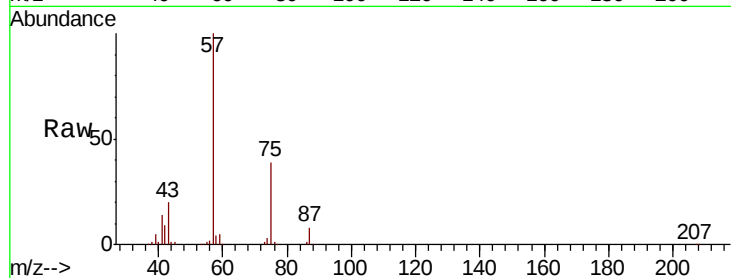




#59
2-Hexanone
Concen: 21.216 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060786.D
Acq: 31 Mar 2020 15:20

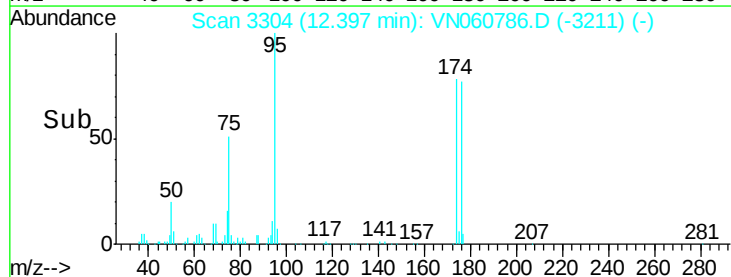
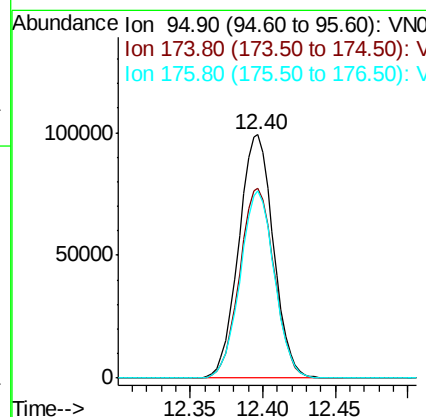
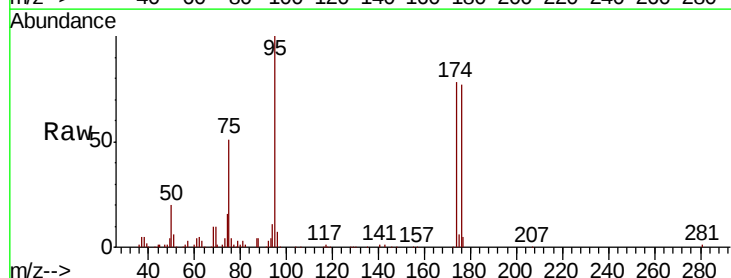
Instrument :
MSVOA_N
ClientSampleId :

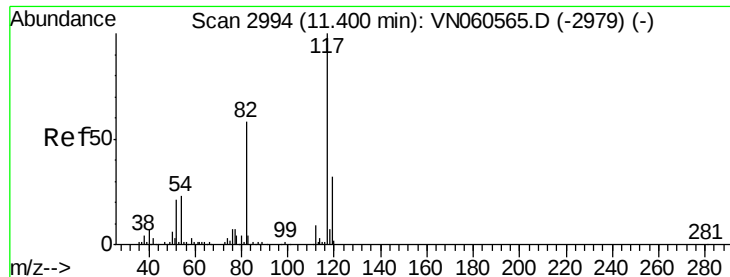
Tot Ion: 43 Resp: 53323
Ion Ratio Lower Upper
43 100
58 19.7 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.258 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060786.D
Acq: 31 Mar 2020 15:20

Tgt Ion: 95 Resp: 164863
Ion Ratio Lower Upper
95 100
174 78.0 0.0 157.6
176 75.7 0.0 150.6

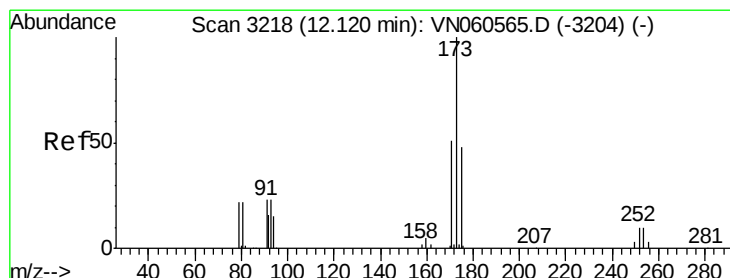
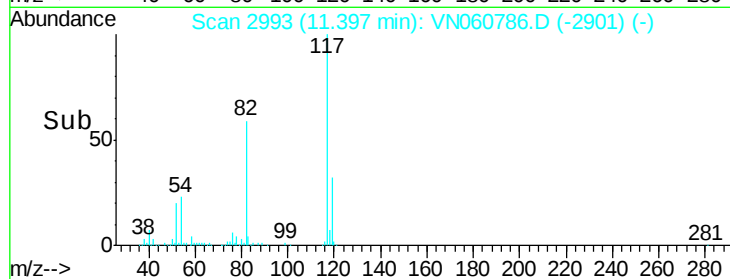
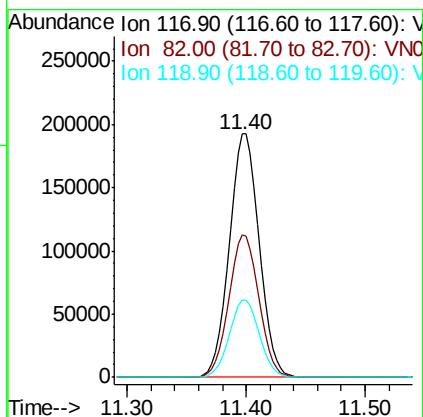
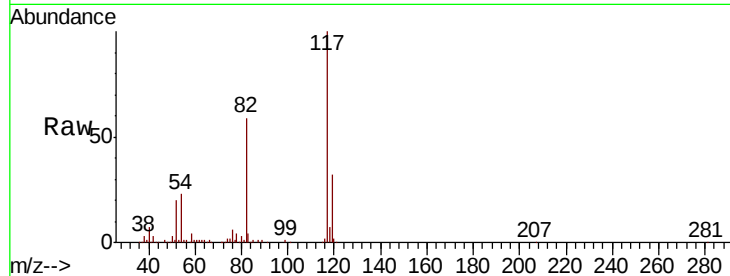




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN060786.D
Acq: 31 Mar 2020 15:20

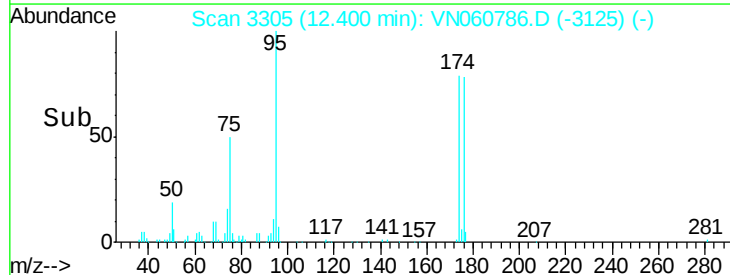
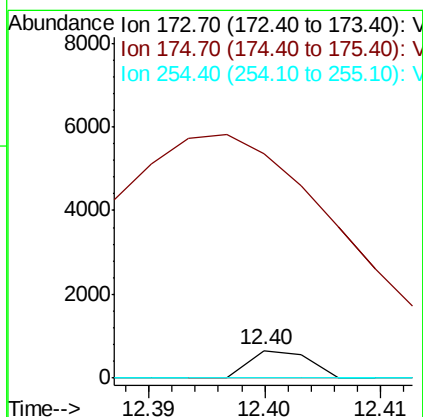
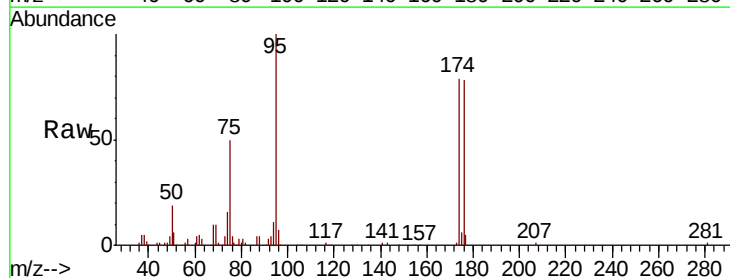
Instrument :
MSVOA_N
ClientSampled :

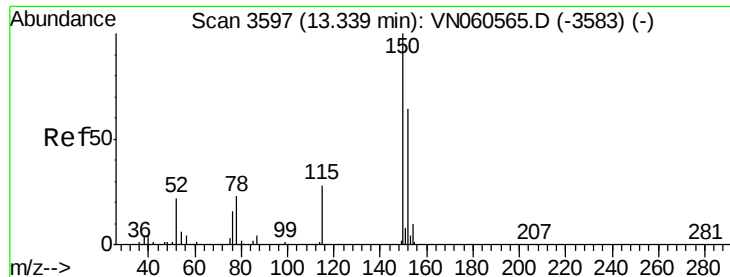
Tot Ion:117 Resp: 334424
Ion Ratio Lower Upper
117 100
82 58.6 46.7 70.1
119 31.7 25.5 38.3



#71
Bromoform
Concen: 1.795 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.28 min
Lab File: VN060786.D
Acq: 31 Mar 2020 15:20

Tgt Ion:173 Resp: 236
Ion Ratio Lower Upper
173 100
175 3511.4 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: VN060786.D

Acq: 31 Mar 2020 15:20

Instrument :

MSVOA_N

ClientSampleId :

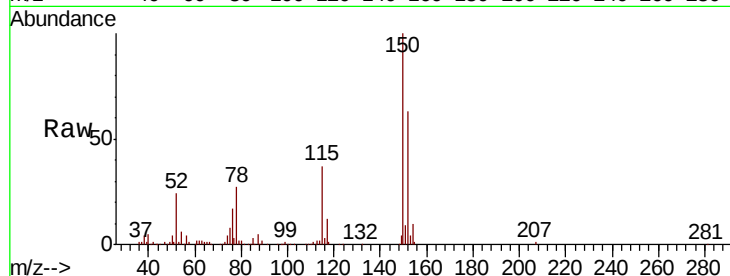
Tot Ion:152 Resp: 154813

Ion Ratio Lower Upper

152 100

115 60.2 30.2 90.6

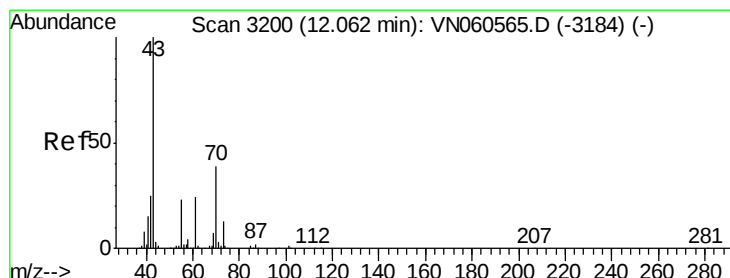
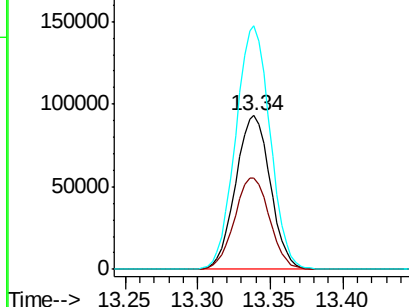
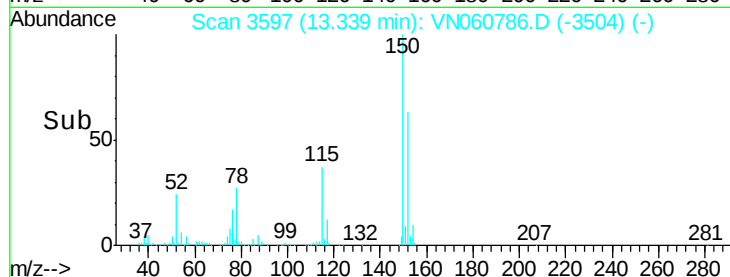
150 157.2 0.0 350.2



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: 0.701 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060786.D

Acq: 31 Mar 2020 15:20

Tgt Ion: 43 Resp: 3766

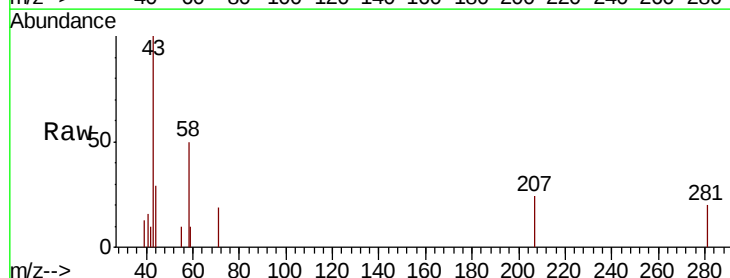
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 2.5 18.6 27.8#

61 0.0 18.9 28.3#

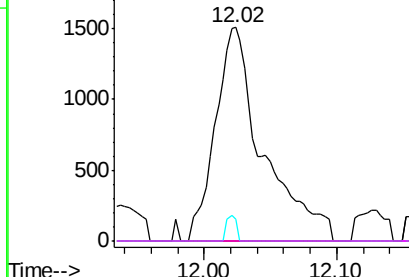
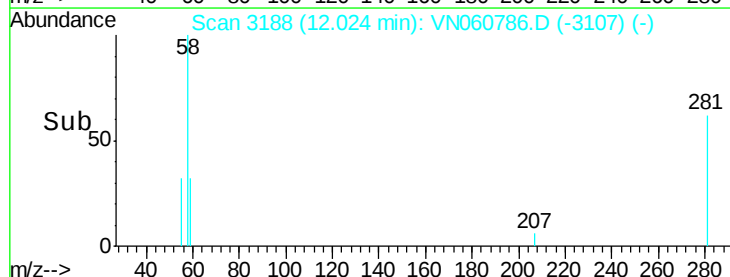


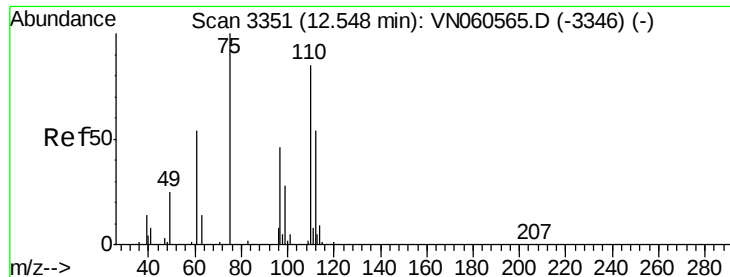
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.220 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060786.D

Acq: 31 Mar 2020 15:20

Instrument :

MSVOA_N

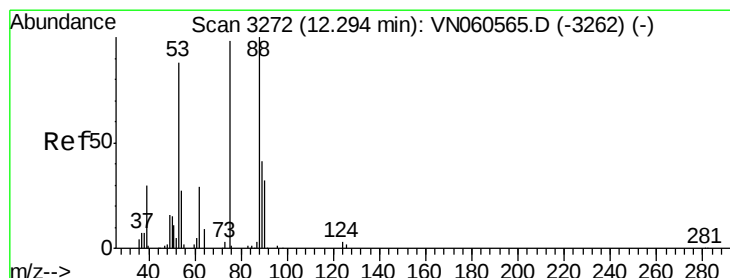
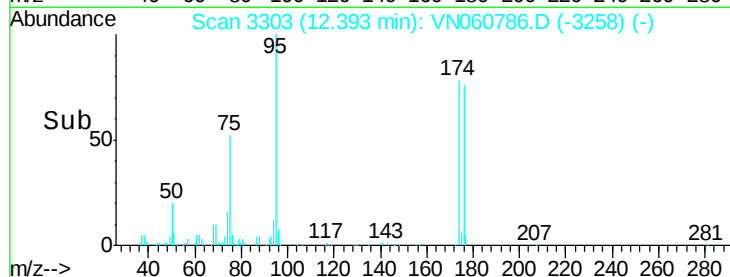
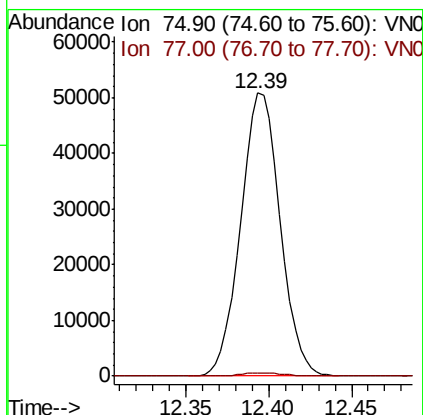
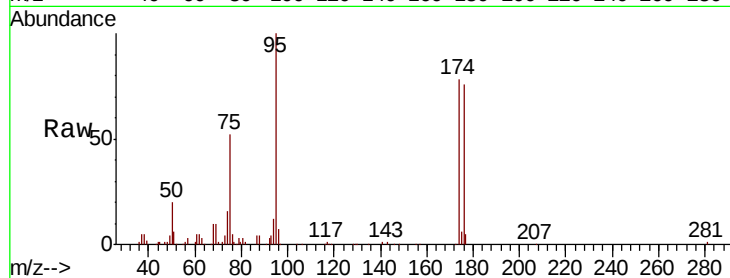
ClientSampled :

Tot Ion: 75 Resp: 84247

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.771 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060786.D

Acq: 31 Mar 2020 15:20

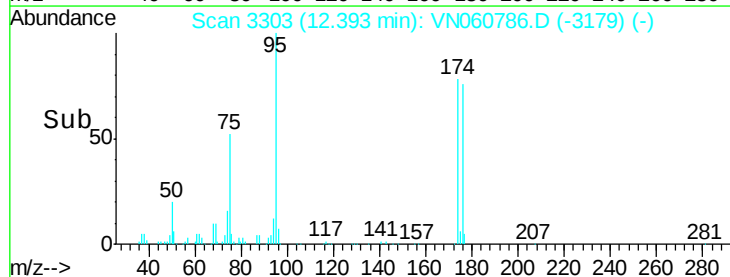
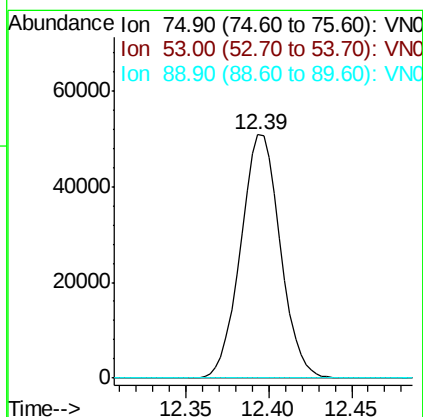
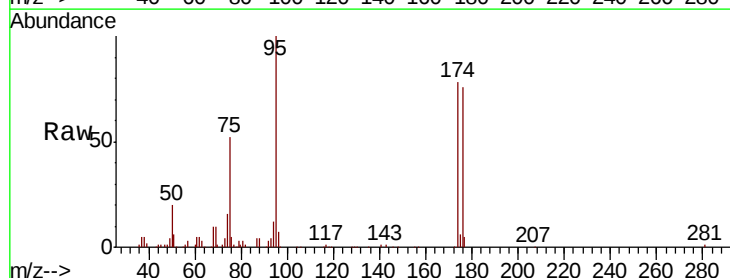
Tgt Ion: 75 Resp: 84247

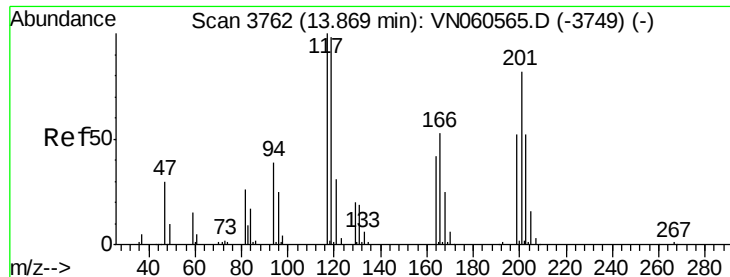
Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

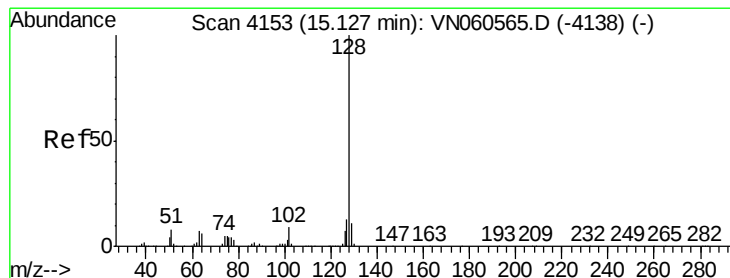
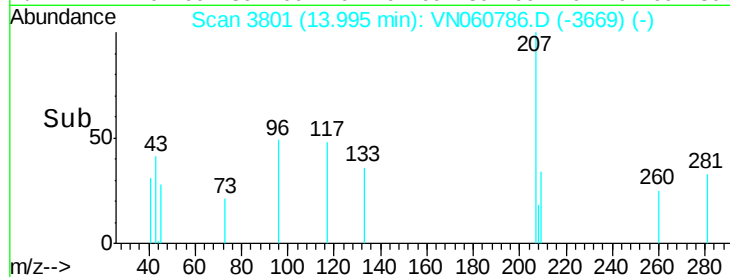
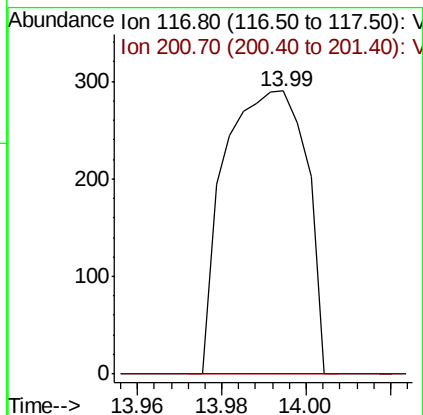
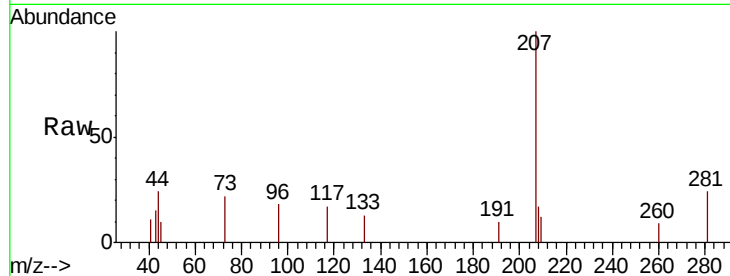




#90
Hexachloroethane
Concen: 0.271 ug/l
RT: 13.99 min Scan# 3801
Delta R.T. 0.13 min
Lab File: VN060786.D
Acq: 31 Mar 2020 15:20

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 390
Ion Ratio Lower Upper
117 100
201 0.0 40.8 122.5#



#95
Naphthalene
Concen: 26.433 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN060786.D
Acq: 31 Mar 2020 15:20

Tgt Ion:128 Resp: 230511
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 10.8 8.8 13.2

