

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052920\
 Data File : VN061579.D
 Acq On : 29 May 2020 19:53
 Operator : JC/MD
 Sample : L2790-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 30 04:46:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	259269	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	467760	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	485480	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	219238	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	170586	55.22	ug/l	0.00
Spiked Amount			Recovery	=	110.44%	
35) Dibromofluoromethane	7.55	113	127840	53.88	ug/l	0.00
Spiked Amount			Recovery	=	107.76%	
50) Toluene-d8	10.06	98	597781	54.36	ug/l	0.00
Spiked Amount			Recovery	=	108.72%	
62) 4-Bromofluorobenzene	12.38	95	226980	56.58	ug/l	0.00
Spiked Amount			Recovery	=	113.16%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	313	0.762	ug/l #	72
16) Acetone	3.78	43	10210	5.939	ug/l	93
18) Methyl Acetate	4.28	43	2413	0.863	ug/l #	66
20) Methylene Chloride	4.50	84	5684	0.295	ug/l #	85
25) 2-Butanone	6.79	43	6484	4.429	ug/l	97
29) Tetrahydrofuran	7.17	42	419	0.434	ug/l #	25
31) Cyclohexane	7.62	56	5395	1.239	ug/l #	36
36) 1,1-Dichloropropene	7.62	75	20902	5.048	ug/l #	48
38) Carbon Tetrachloride	7.62	117	26475	6.628	ug/l #	16
43) Isopropyl Acetate	8.13	43	63194	10.532	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	1504	0.496	ug/l #	44
48) Methyl methacrylate	9.15	41	4032	1.494	ug/l #	5
49) 1,4-Dioxane	9.23	88	65	1.554	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	4861	1.438	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	33803	6.331	ug/l #	61
56) Ethyl methacrylate	10.52	69	1036	0.223	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5510	1.037	ug/l #	42
59) 2-Hexanone	10.73	43	65006	26.769	ug/l #	48
71) Bromoform	12.38	173	1819	0.628	ug/l #	1
74) N-amyl acetate	12.00	43	3312	0.657	ug/l #	39
76) 1,2,3-Trichloropropane	12.38	75	113070	28.363	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	113070	72.531	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

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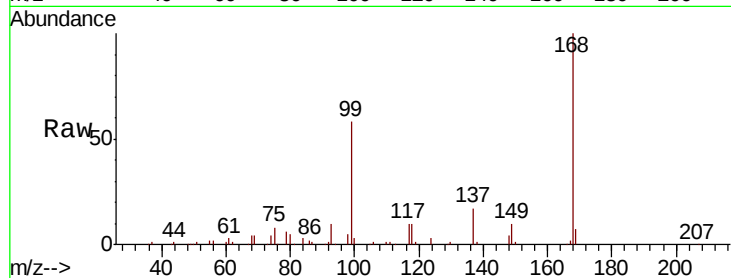
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 259269

Ion Ratio Lower Upper

168 100

99 57.9 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

120000

100000

80000

60000

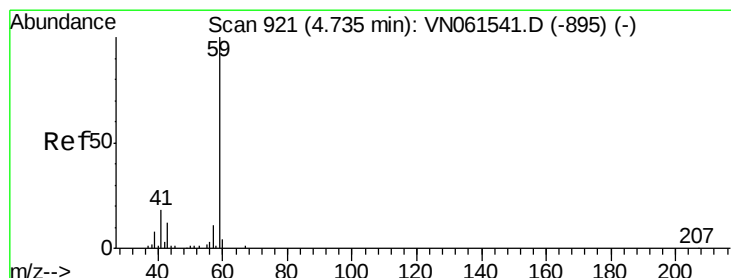
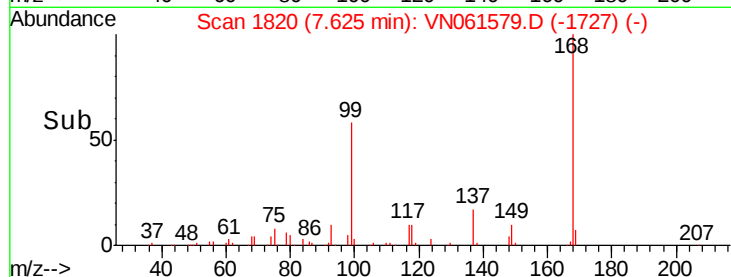
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#11

Tert butyl alcohol

Concen: 0.762 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.01 min

Lab File: VN061579.D

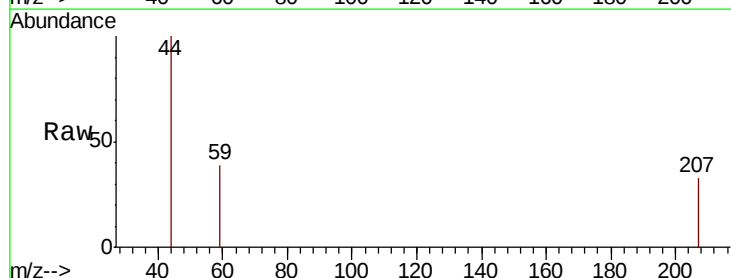
Acq: 29 May 2020 19:53

Tgt Ion: 59 Resp: 313

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

300

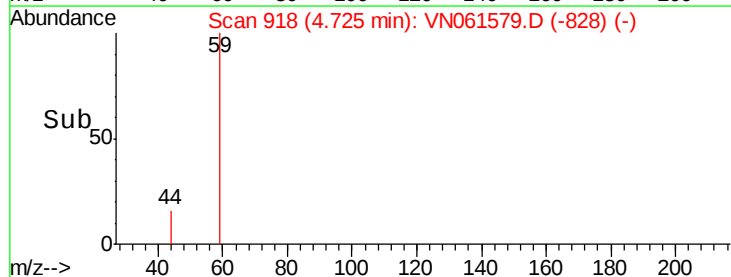
200

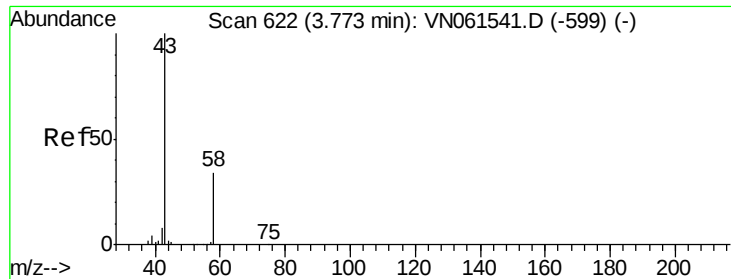
100

0

Time-->

4.70 4.71 4.72 4.73 4.74





#16

Acetone

Concen: 5.939 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061579.D

Acq: 29 May 2020 19:53

Instrument :

MSVOA_N

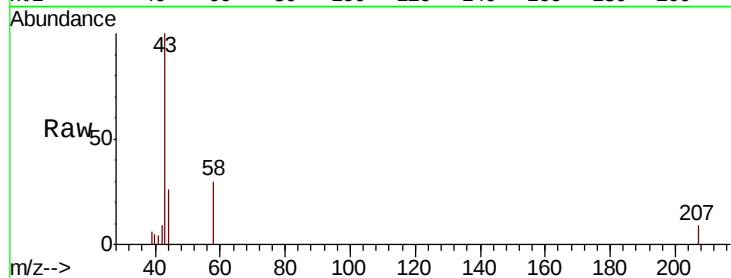
ClientSampled :

Tot Ion: 43 Resp: 10210

Ion Ratio Lower Upper

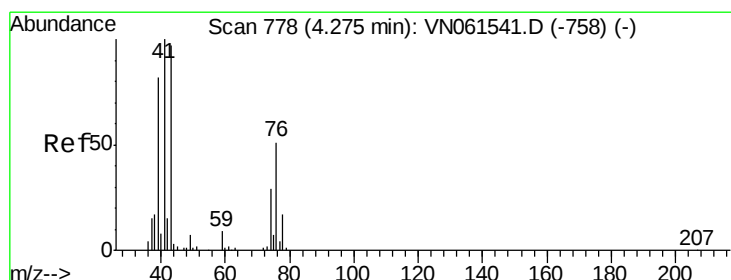
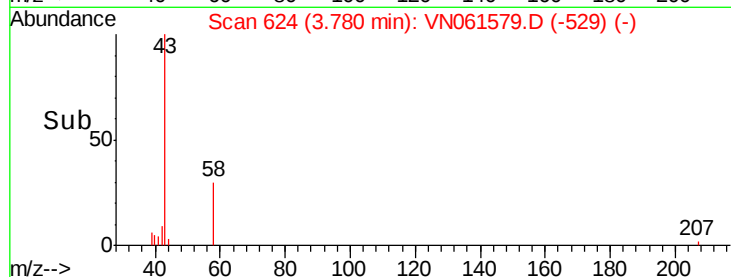
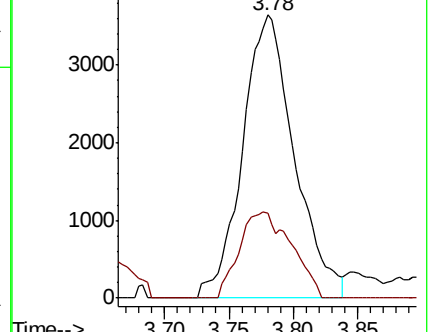
43 100

58 30.2 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN061541.D (-599) (-)



#18

Methyl Acetate

Concen: 0.863 ug/l

RT: 4.28 min Scan# 781

Delta R.T. 0.01 min

Lab File: VN061579.D

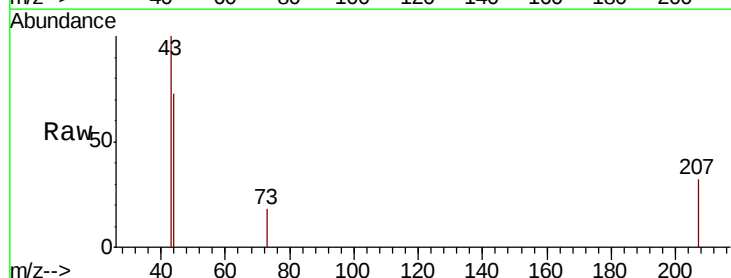
Acq: 29 May 2020 19:53

Tgt Ion: 43 Resp: 2413

Ion Ratio Lower Upper

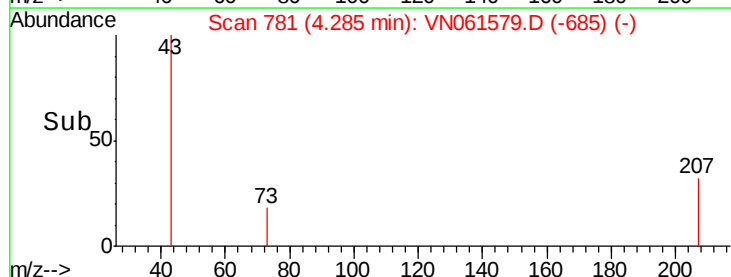
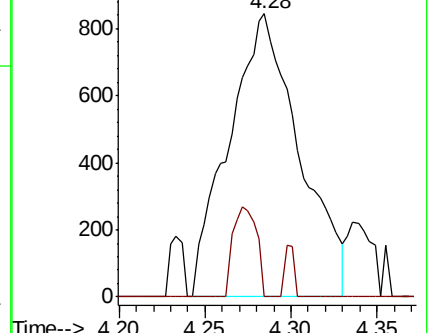
43 100

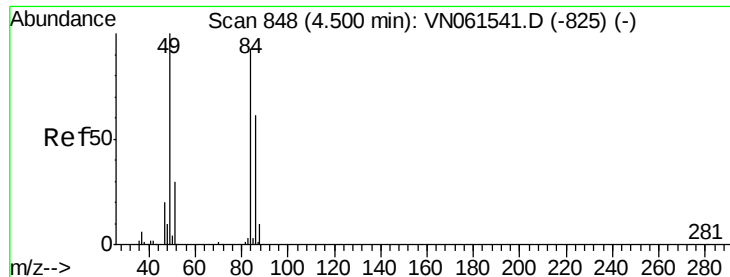
74 10.7 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-758) (-)

Ion 74.00 (73.70 to 74.70): VN061541.D (-758) (-)

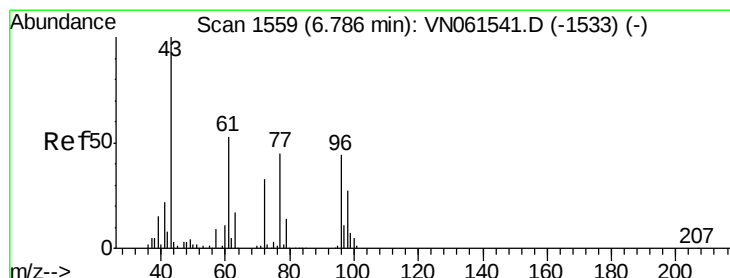
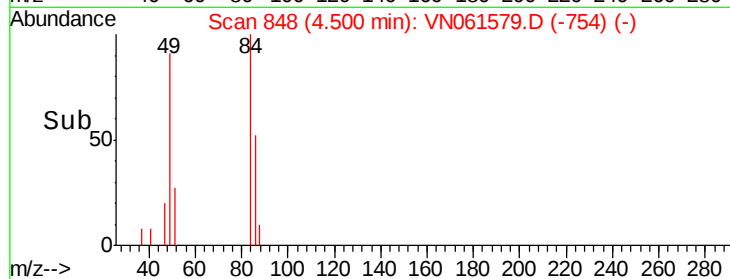
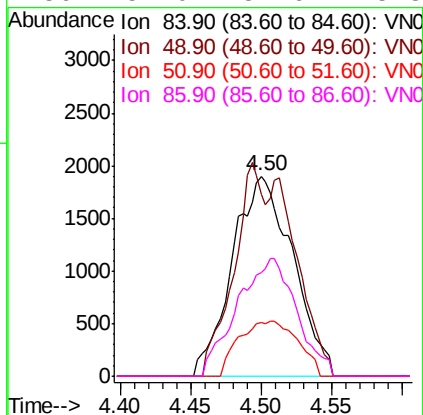
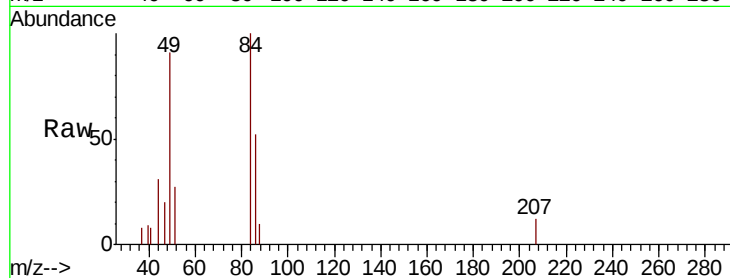




#20
Methvlene Chloride
Concen: 0.295 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN061579.D
Acq: 29 May 2020 19:53

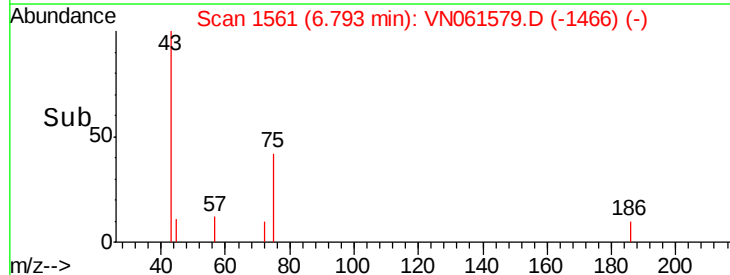
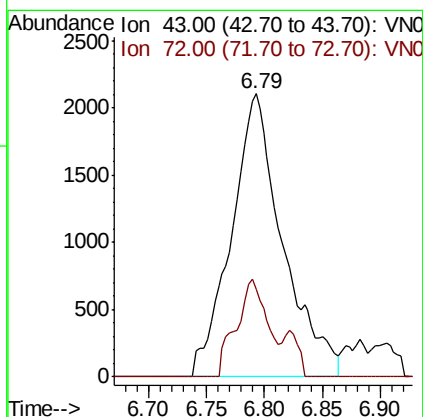
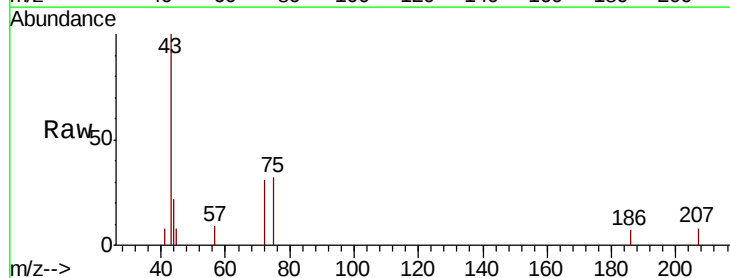
Instrument :
MSVOA_N
ClientSampled :

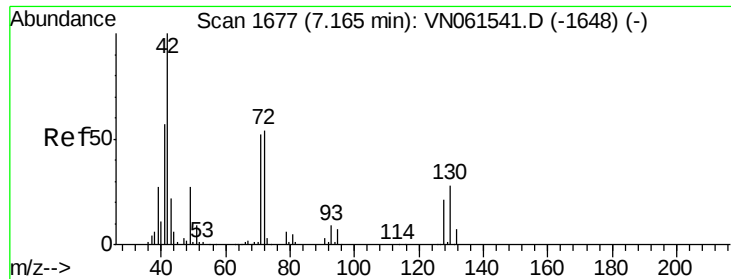
Tot Ion:	84	Resp:	5684
Ion	Ratio	Lower	Upper
84	100		
49	91.1	85.8	128.8
51	26.9	26.2	39.2
86	52.0	52.6	78.8#



#25
2-Butanone
Concen: 4.429 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN061579.D
Acq: 29 May 2020 19:53

Tgt Ion:	43	Resp:	6484
Ion	Ratio	Lower	Upper
43	100		
72	30.8	26.0	39.0

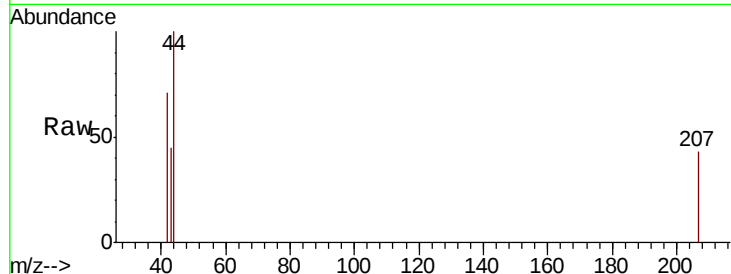




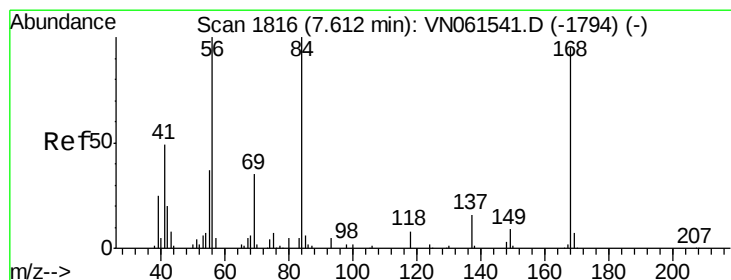
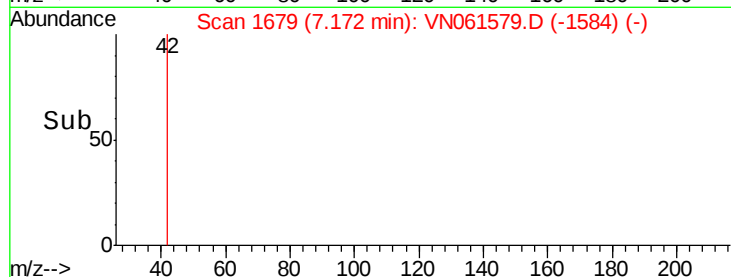
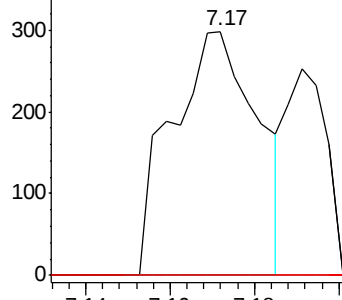
#29
Tetrahydrofuran
Concen: 0.434 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.01 min
Lab File: VN061579.D
Acq: 29 May 2020 19:53

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 42 Resp: 419
Ion Ratio Lower Upper
42 100
72 0.0 43.6 65.4#
71 0.0 41.2 61.8#

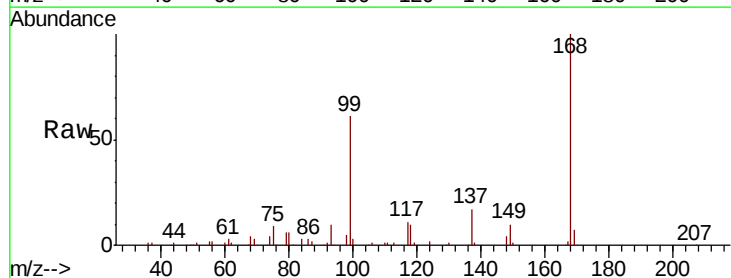


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

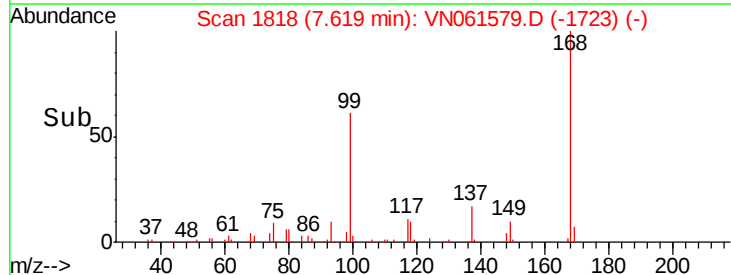
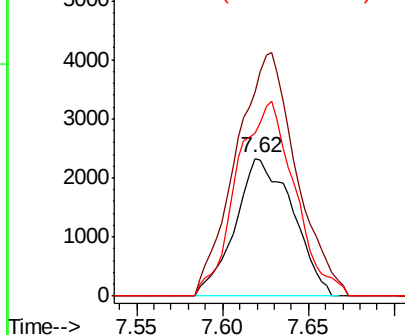


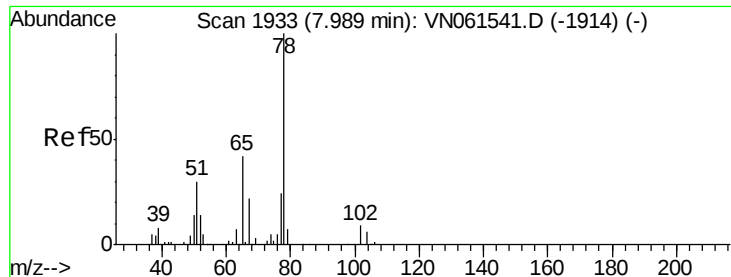
#31
Cyclohexane
Concen: 1.239 ug/l
RT: 7.62 min Scan# 1818
Delta R.T. 0.01 min
Lab File: VN061579.D
Acq: 29 May 2020 19:53

Tgt Ion: 56 Resp: 5395
Ion Ratio Lower Upper
56 100
69 147.9 27.8 41.8#
84 117.7 79.9 119.9



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: 55.223 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN061579.D

Acq: 29 May 2020 19:53

Instrument :

MSVOA_N

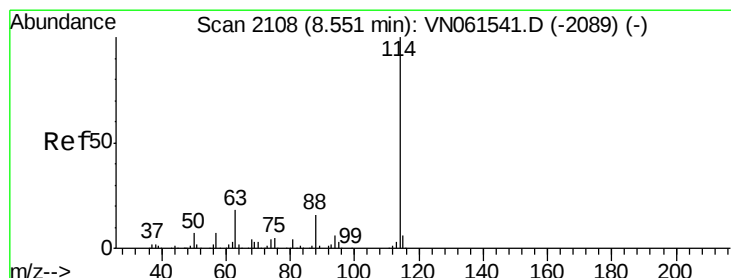
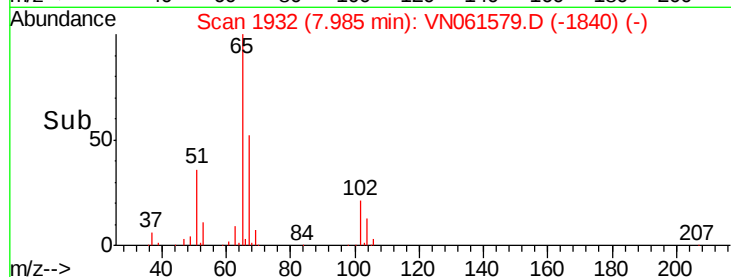
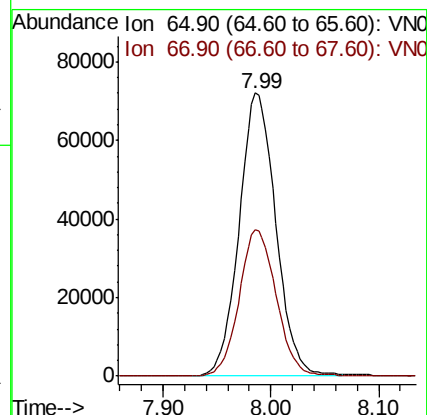
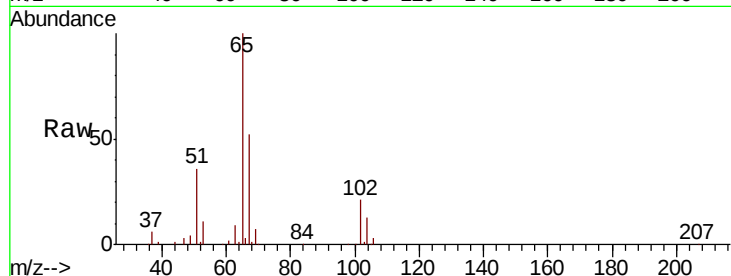
ClientSampleId :

Tot Ion: 65 Resp: 170586

Ion Ratio Lower Upper

65 100

67 52.3 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061579.D

Acq: 29 May 2020 19:53

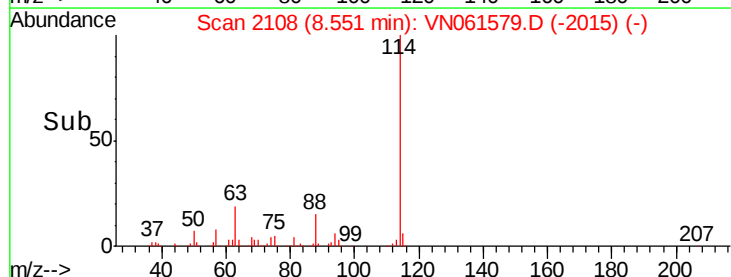
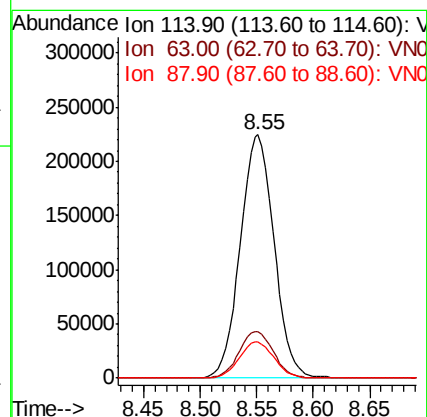
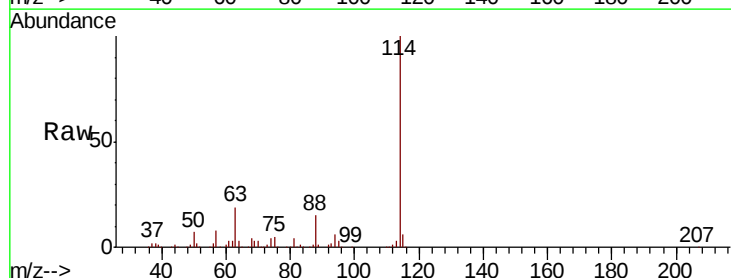
Tgt Ion: 114 Resp: 467760

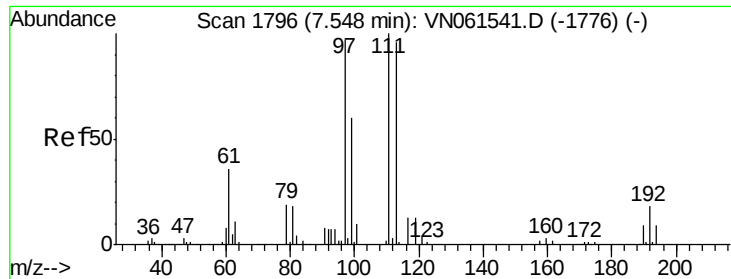
Ion Ratio Lower Upper

114 100

63 19.0 0.0 35.8

88 14.8 0.0 31.0

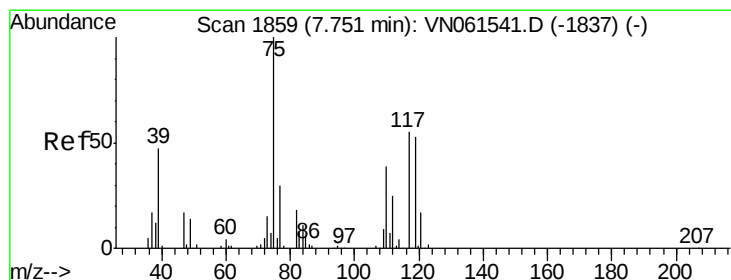
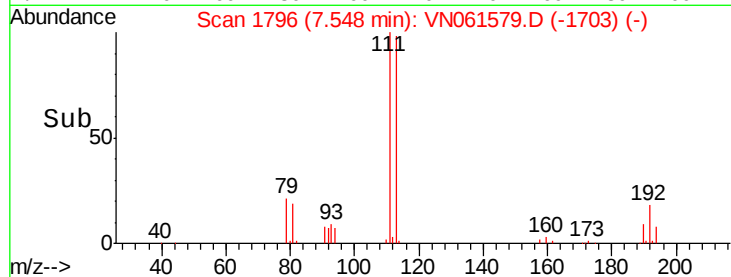
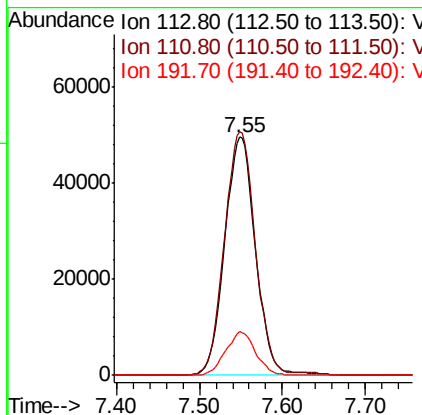
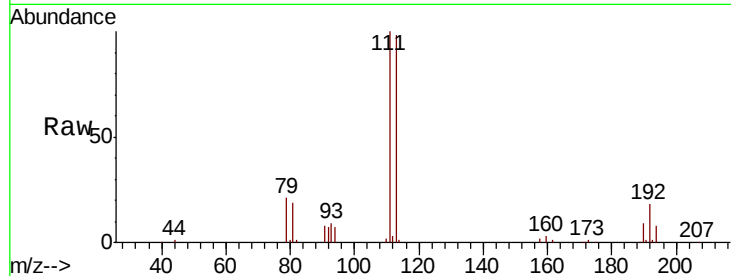




#35
 Dibromofluoromethane
 Concen: 53.876 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061579.D
 Acq: 29 May 2020 19:53

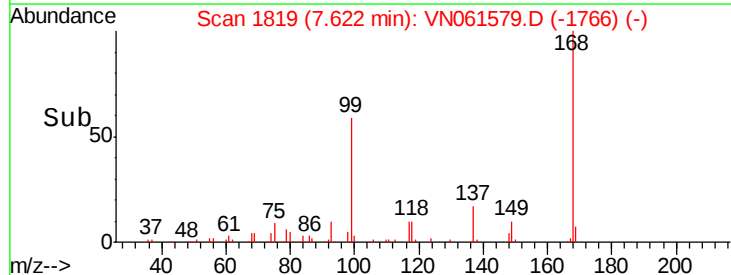
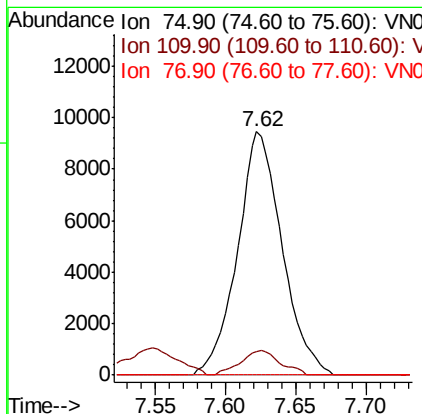
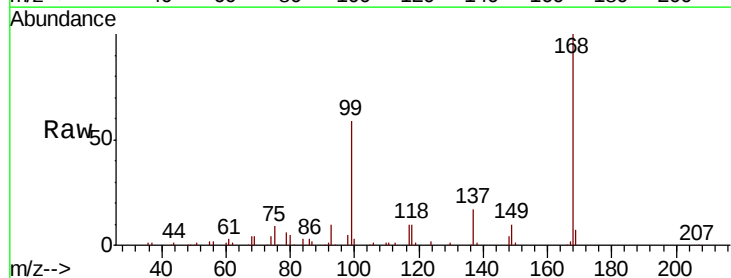
Instrument :
 MSVOA_N
 ClientSampleId :

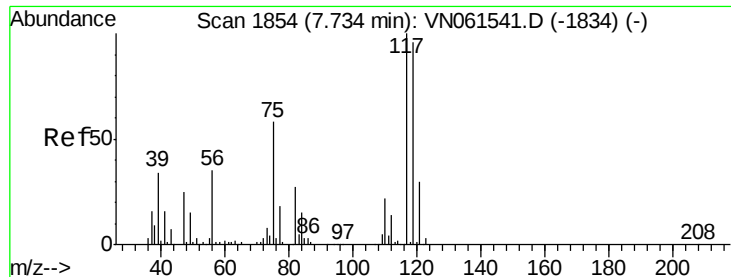
Tot Ion:113 Resp: 127840
 Ion Ratio Lower Upper
 113 100
 111 102.0 83.4 125.0
 192 18.0 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 5.048 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061579.D
 Acq: 29 May 2020 19:53

Tgt Ion: 75 Resp: 20902
 Ion Ratio Lower Upper
 75 100
 110 9.0 19.5 58.5#
 77 0.0 24.7 37.1#

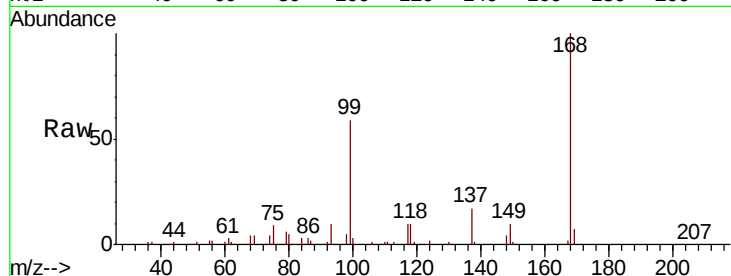




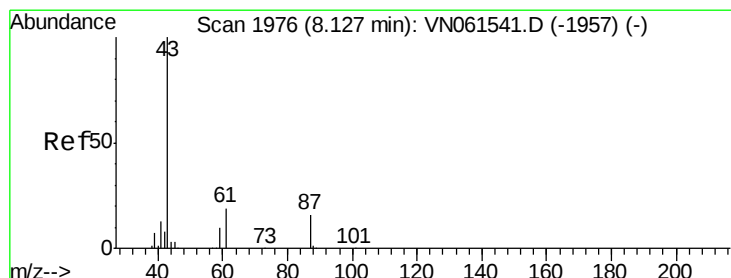
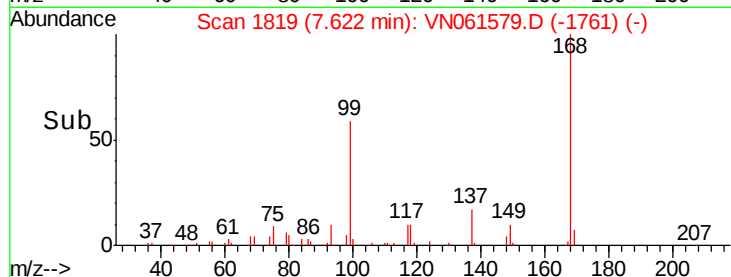
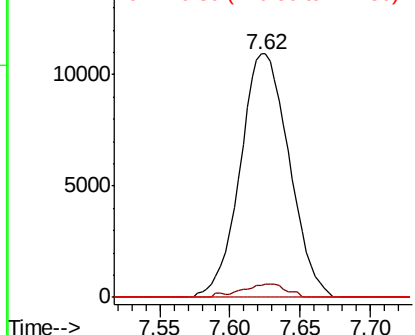
#38
Carbon Tetrachloride
Concen: 6.628 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. -0.11 min
Lab File: VN061579.D
Acq: 29 May 2020 19:53

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 26475
Ion Ratio Lower Upper
117 100
119 5.1 76.5 114.7#
121 0.0 24.1 36.1#

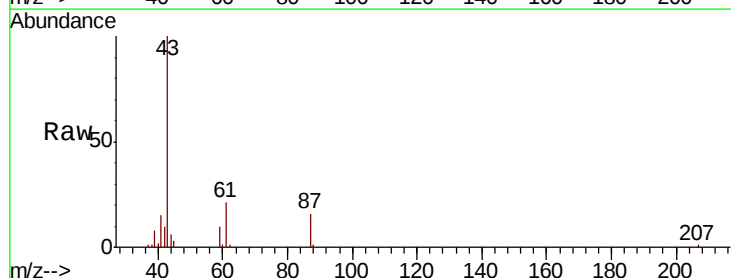


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

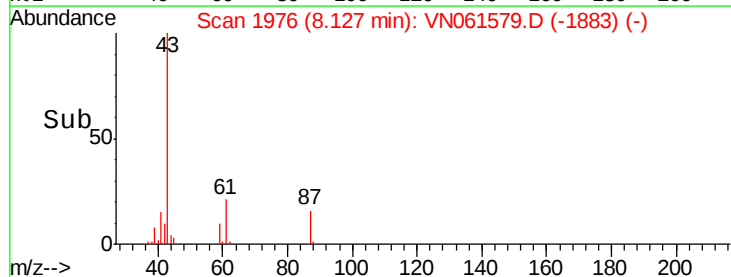
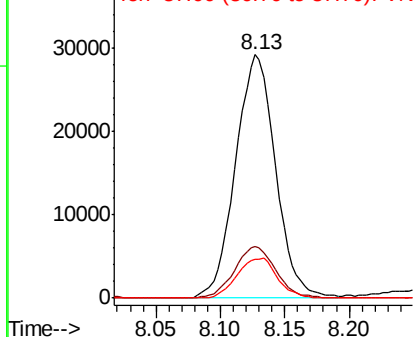


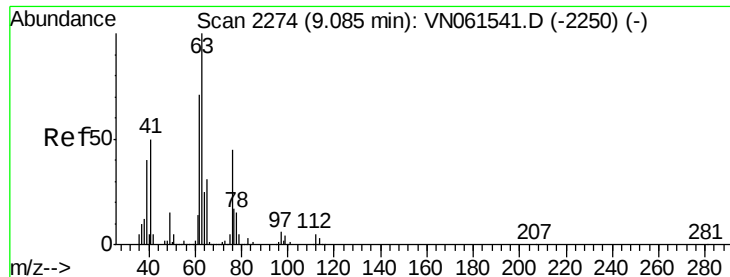
#43
Isopropyl Acetate
Concen: 10.532 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN061579.D
Acq: 29 May 2020 19:53

Tgt Ion: 43 Resp: 63194
Ion Ratio Lower Upper
43 100
61 21.8 23.6 35.4#
87 16.3 13.0 19.6



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.496 ug/l

RT: 9.24 min Scan# 2322

Delta R.T. 0.15 min

Lab File: VN061579.D

Acq: 29 May 2020 19:53

Instrument :

MSVOA_N

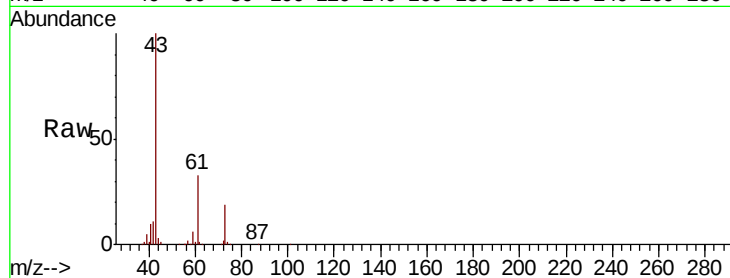
ClientSampleId :

Tot Ion: 63 Resp: 1504

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.24

1000

800

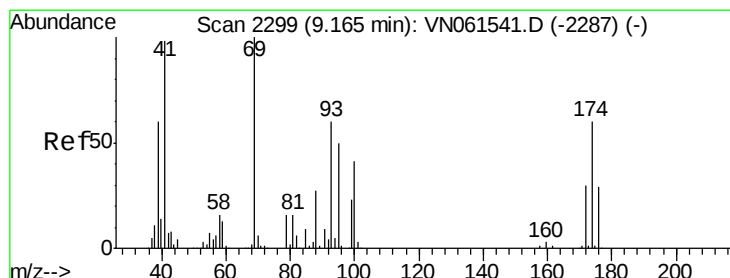
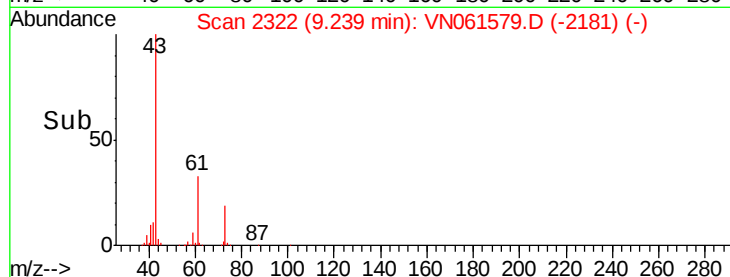
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.494 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN061579.D

Acq: 29 May 2020 19:53

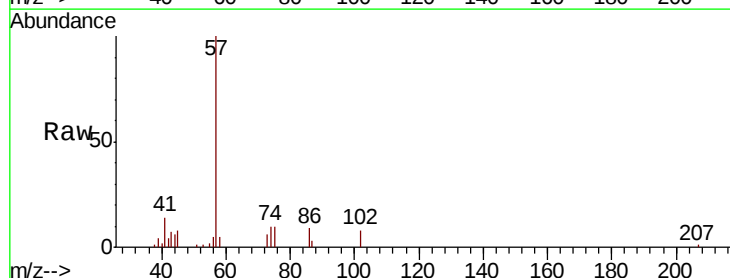
Tgt Ion: 41 Resp: 4032

Ion Ratio Lower Upper

41 100

69 0.0 83.9 125.9#

39 0.0 52.1 78.1#



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

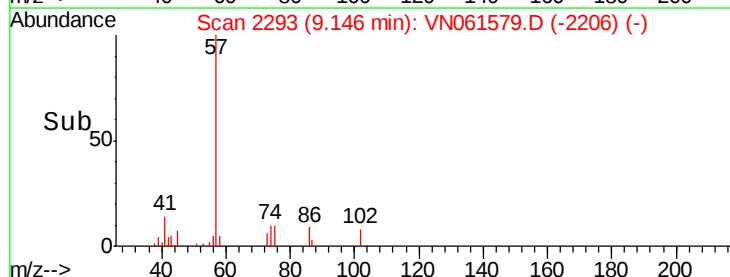
30000

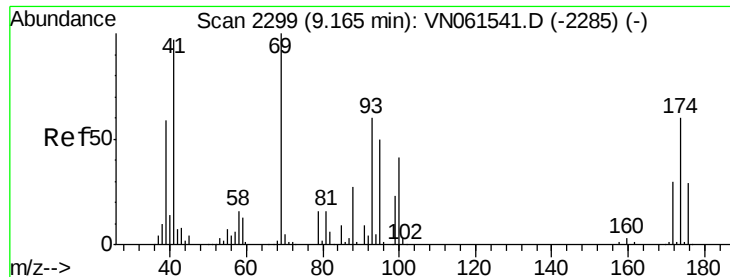
20000

10000

0

Time-->





#49

1,4-Dioxane

Concen: 1.554 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.07 min

Lab File: VN061579.D

Acq: 29 May 2020 19:53

Instrument :
MSVOA_N
ClientSampled :

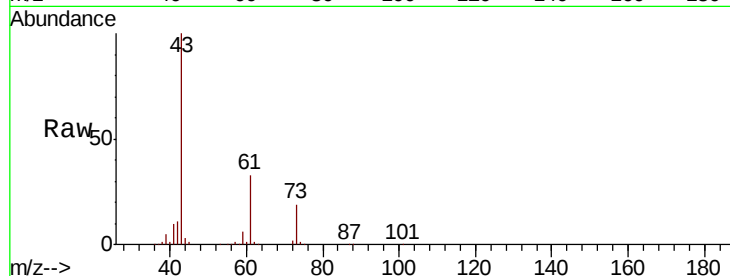
Tot Ion: 88 Resp: 65

Ion Ratio Lower Upper

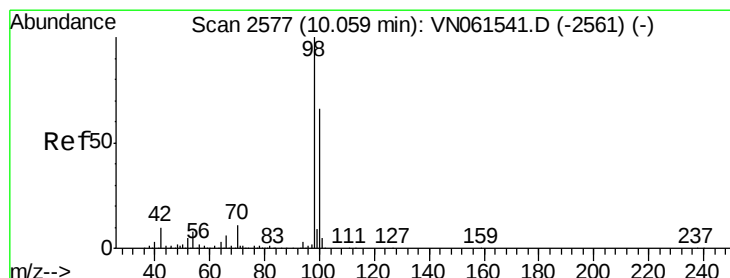
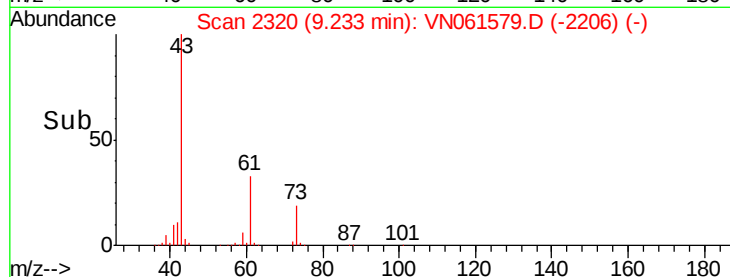
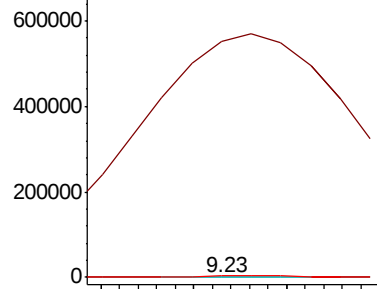
88 100

43 1636209.2 23.1 34.7#

58 7647.7 48.3 72.5#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 54.363 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061579.D

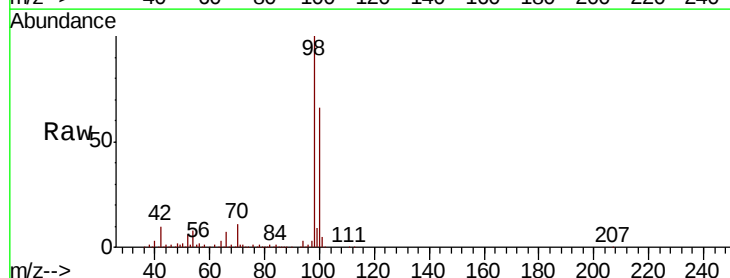
Acq: 29 May 2020 19:53

Tgt Ion: 98 Resp: 597781

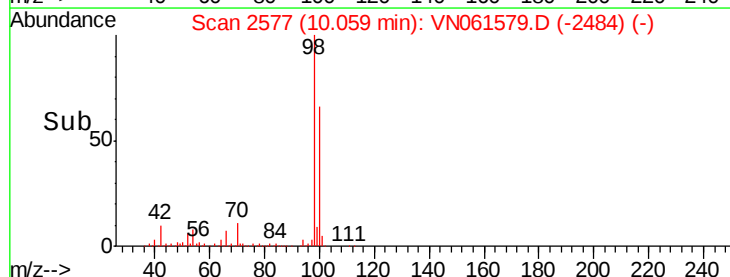
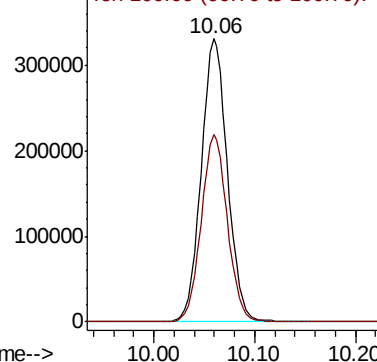
Ion Ratio Lower Upper

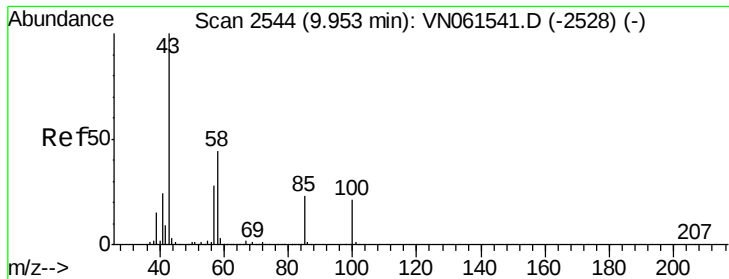
98 100

100 66.1 52.8 79.2



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: 1.438 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061579.D

Acq: 29 May 2020 19:53

Instrument :

MSVOA_N

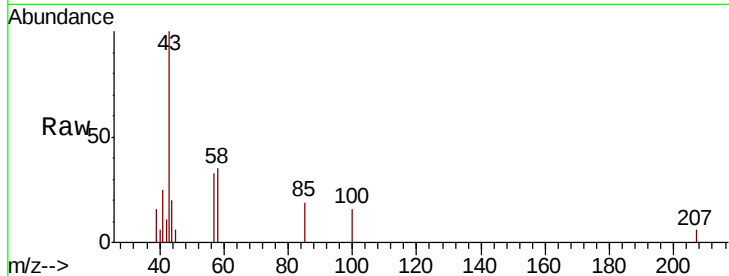
ClientSampled :

Tot Ion: 43 Resp: 4861

Ion Ratio Lower Upper

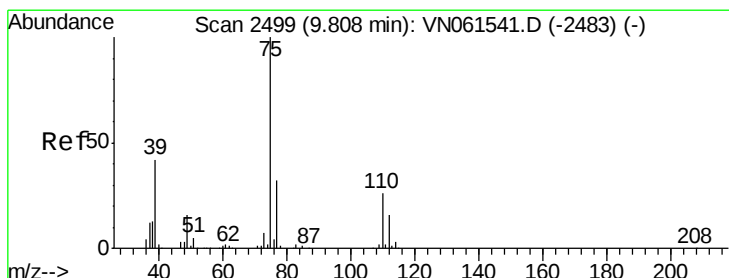
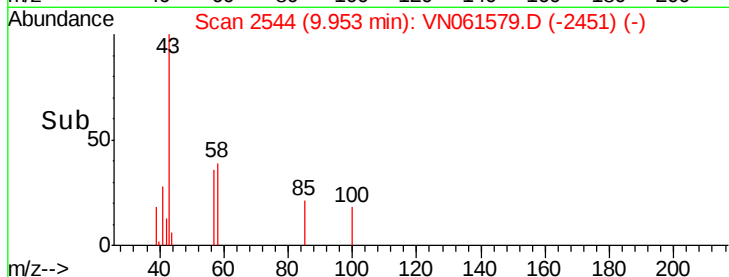
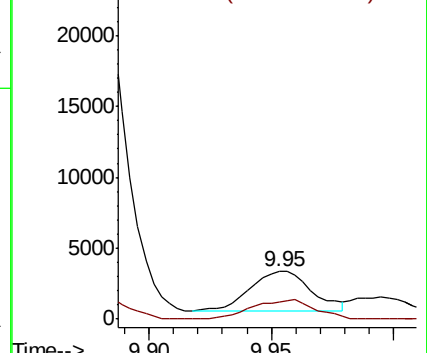
43 100

58 50.4 35.0 52.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.331 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN061579.D

Acq: 29 May 2020 19:53

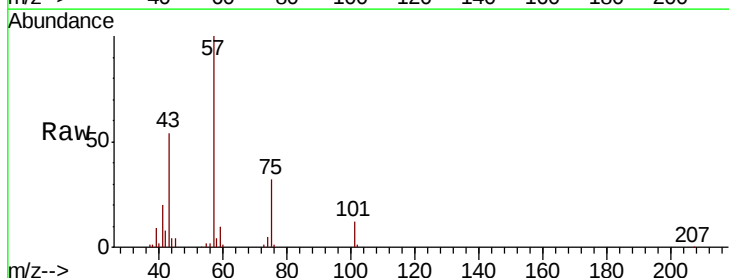
Tgt Ion: 75 Resp: 33803

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

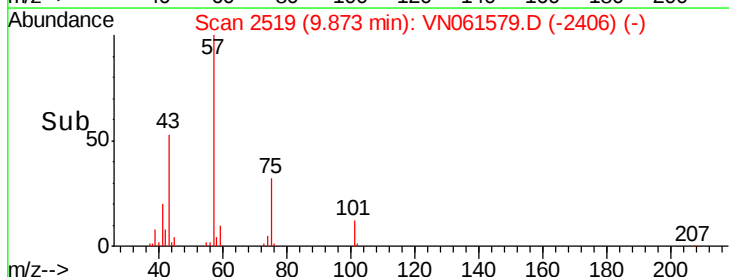
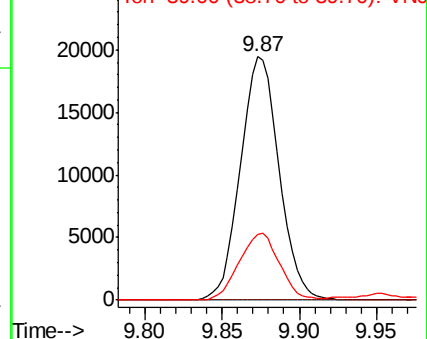
39 26.3 33.8 50.6#

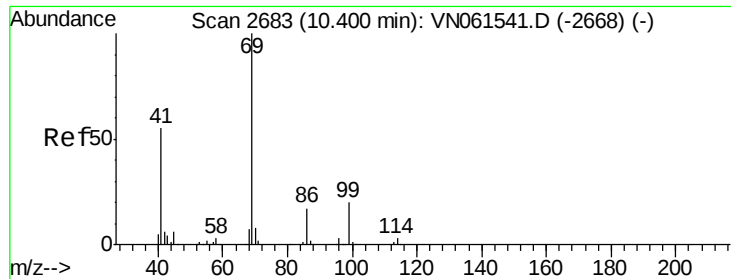


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.223 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN061579.D

Acq: 29 May 2020 19:53

Instrument :

MSVOA_N

ClientSampleId :

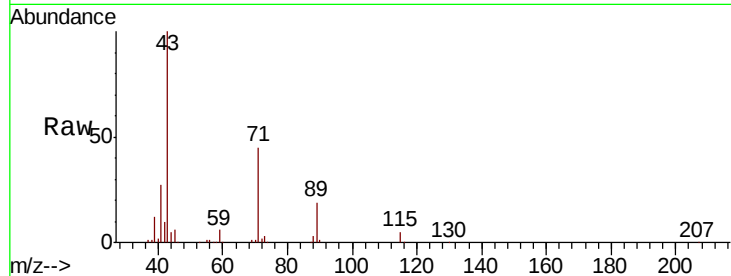
Tot Ion: 69 Resp: 1036

Ion Ratio Lower Upper

69 100

41 5621.4 43.5 65.3#

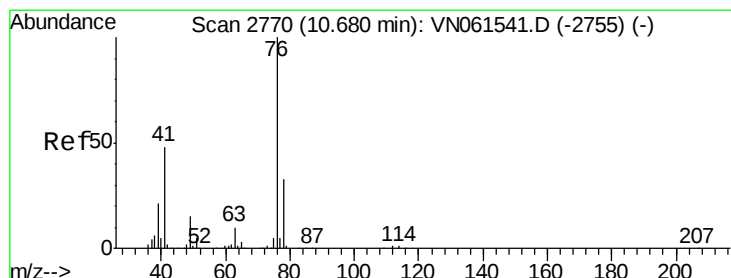
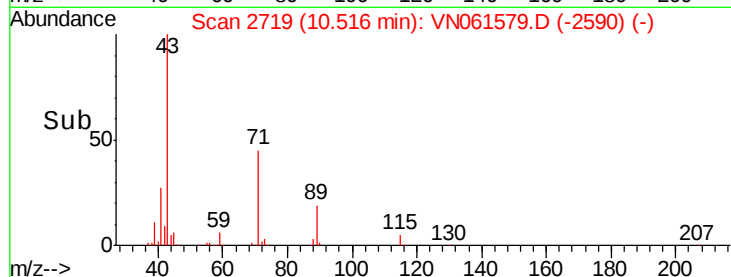
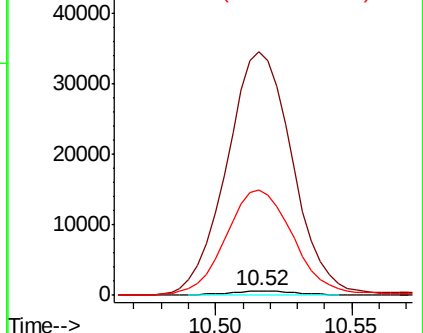
39 2499.0 27.0 40.6#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.037 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.05 min

Lab File: VN061579.D

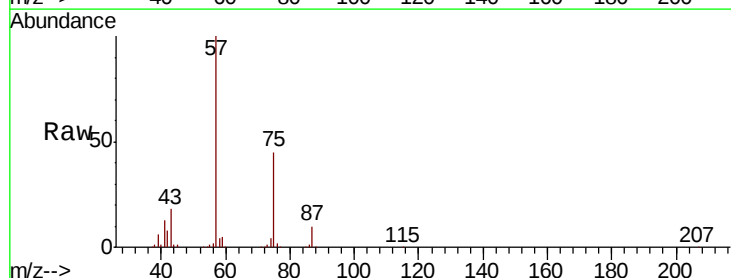
Acq: 29 May 2020 19:53

Tgt Ion: 76 Resp: 5510

Ion Ratio Lower Upper

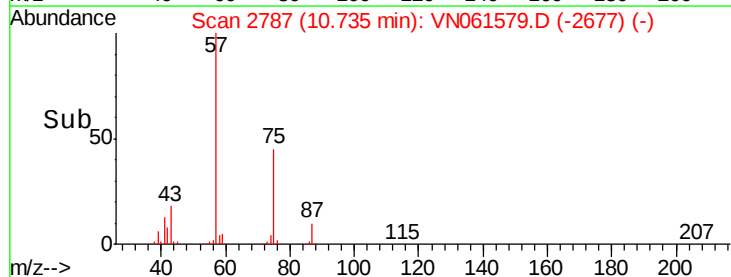
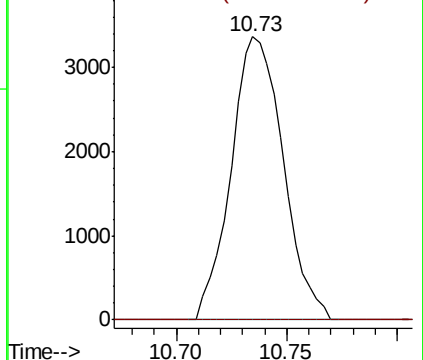
76 100

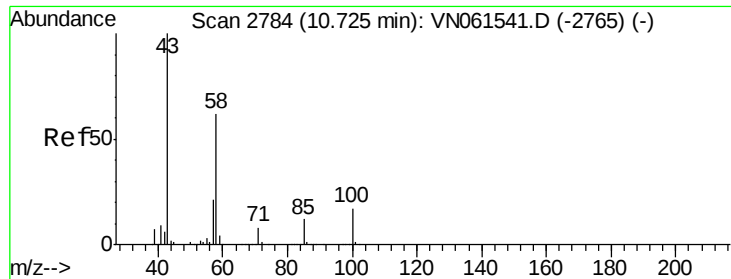
78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 26.769 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.01 min

Lab File: VN061579.D

Acq: 29 May 2020 19:53

Instrument :

MSVOA_N

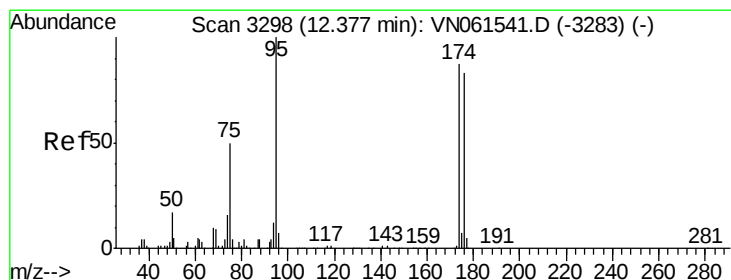
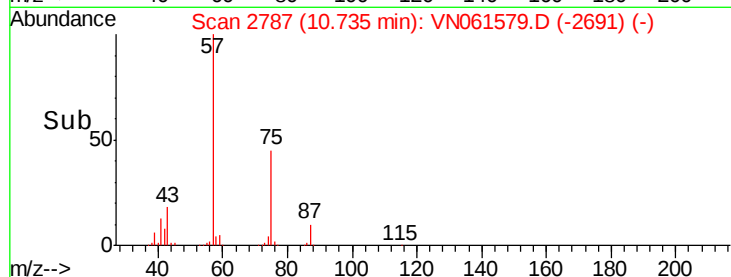
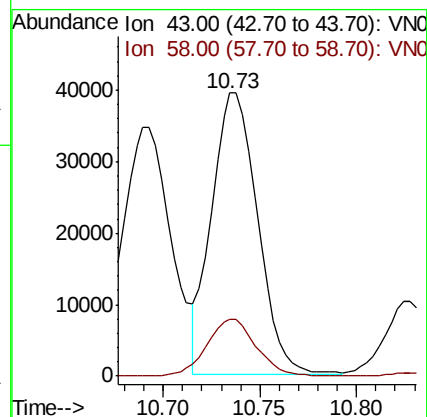
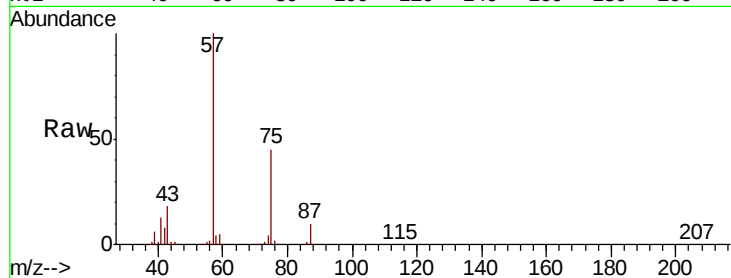
ClientSampled :

Tot Ion: 43 Resp: 65006

Ion Ratio Lower Upper

43 100

58 21.6 30.7 92.1#



#62

4-Bromofluorobenzene

Concen: 56.578 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061579.D

Acq: 29 May 2020 19:53

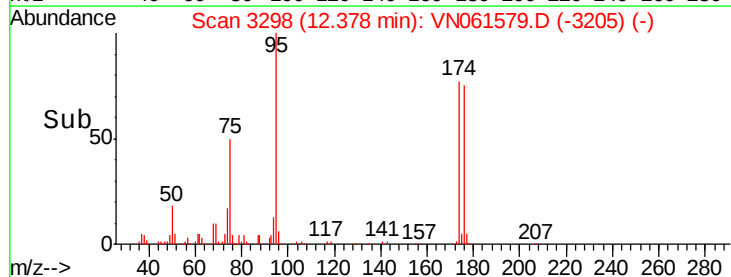
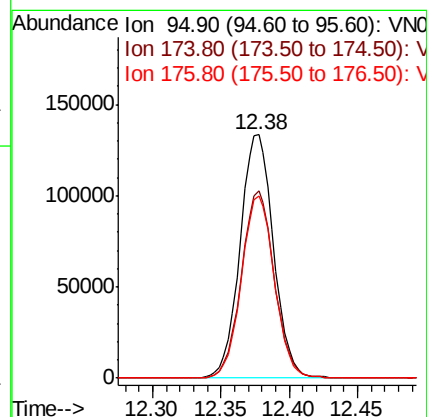
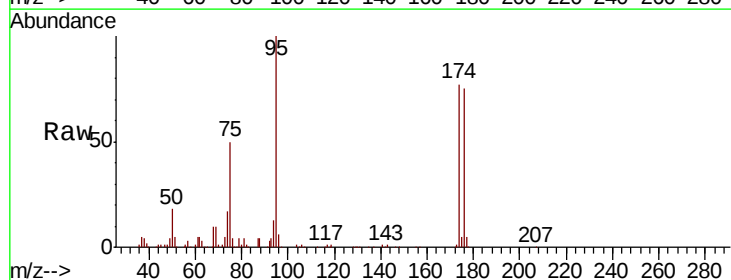
Tgt Ion: 95 Resp: 226980

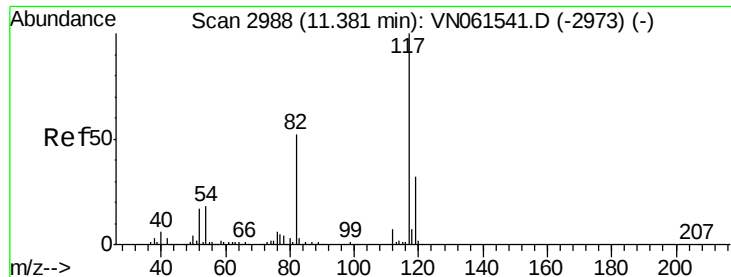
Ion Ratio Lower Upper

95 100

174 76.0 0.0 172.8

176 73.8 0.0 164.8

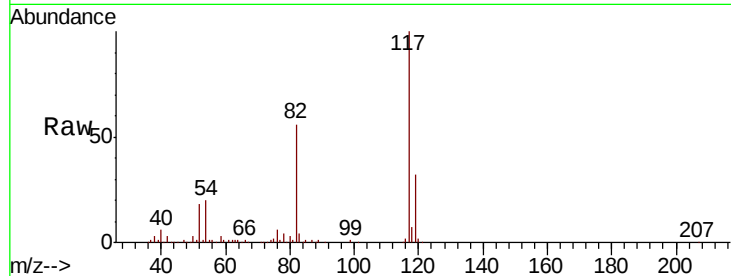




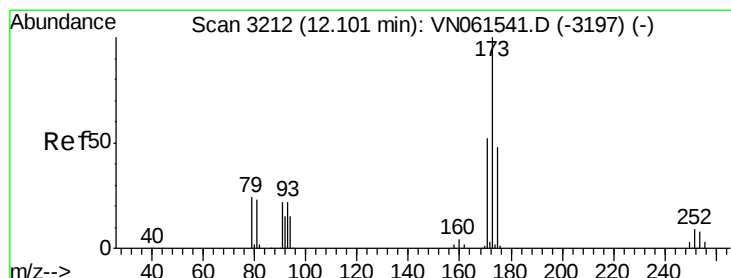
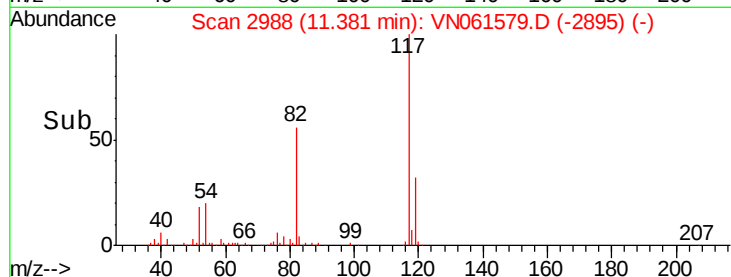
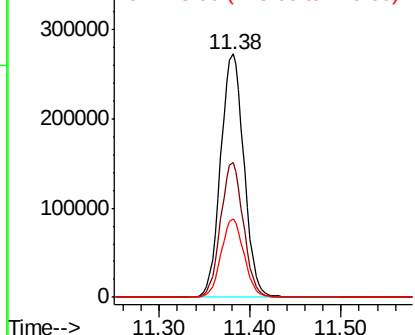
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061579.D
Acq: 29 May 2020 19:53

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 485480
Ion Ratio Lower Upper
117 100
82 55.5 41.5 62.3
119 32.2 25.6 38.4

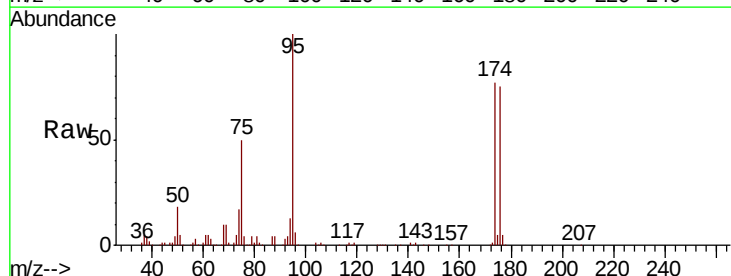


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

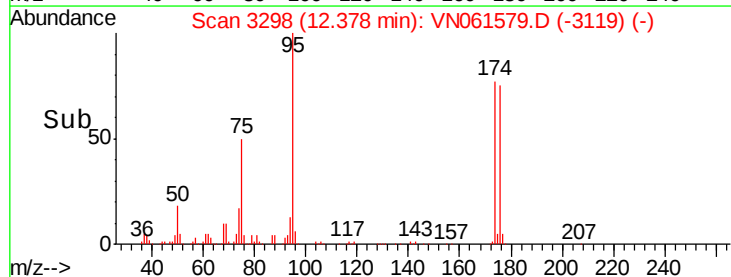
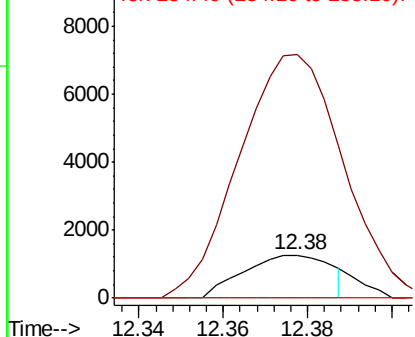


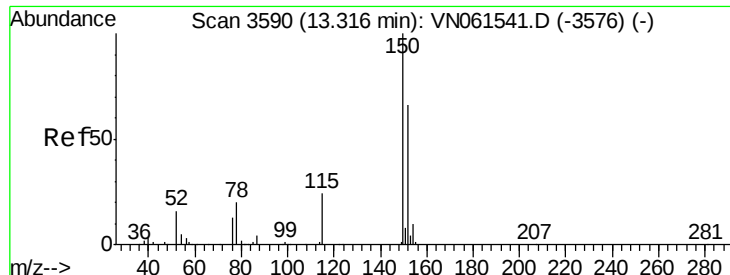
#71
Bromoform
Concen: 0.628 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN061579.D
Acq: 29 May 2020 19:53

Tgt Ion:173 Resp: 1819
Ion Ratio Lower Upper
173 100
175 589.0 24.4 73.2#
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: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061579.D

Acq: 29 May 2020 19:53

Instrument :

MSVOA_N

ClientSampled :

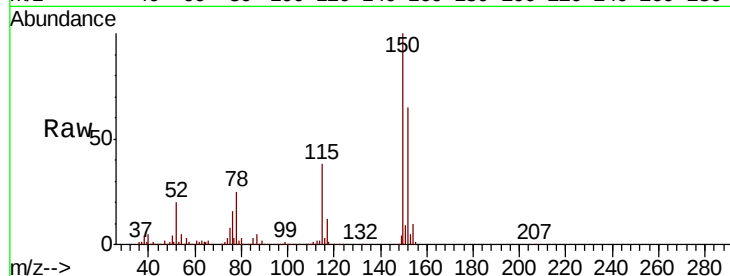
Tot Ion:152 Resp: 219238

Ion Ratio Lower Upper

152 100

115 59.2 28.0 84.0

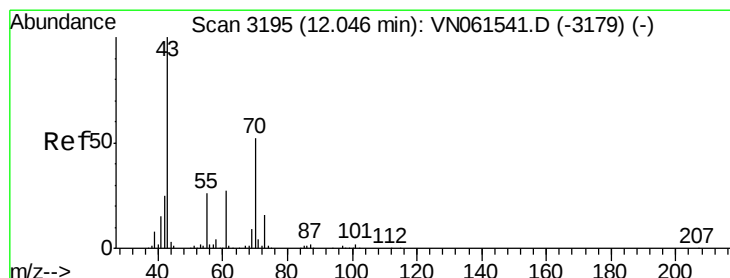
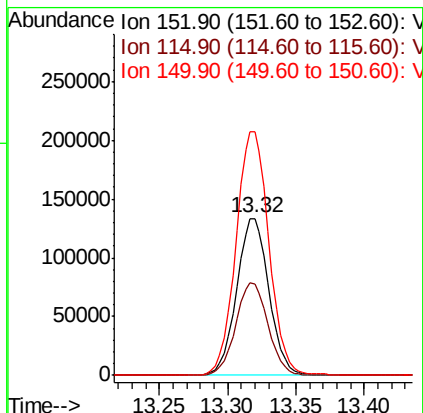
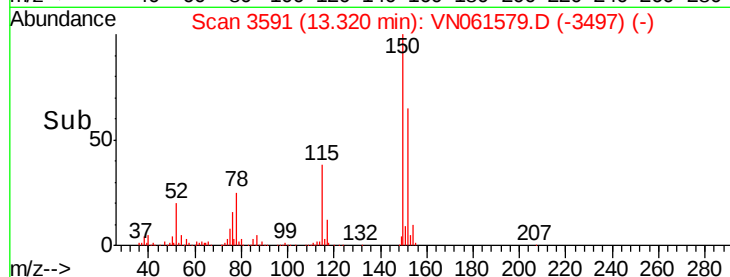
150 158.5 0.0 344.0



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: 0.657 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061579.D

Acq: 29 May 2020 19:53

Tgt Ion: 43 Resp: 3312

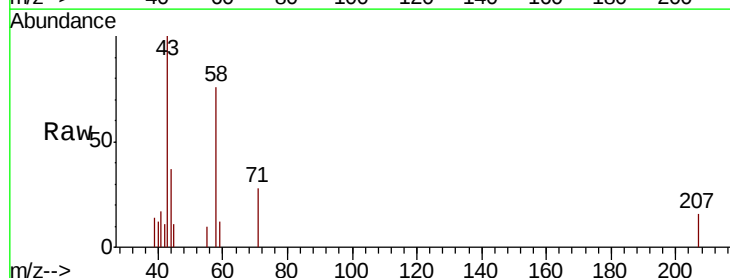
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 2.9 20.6 31.0#

61 0.0 21.8 32.6#

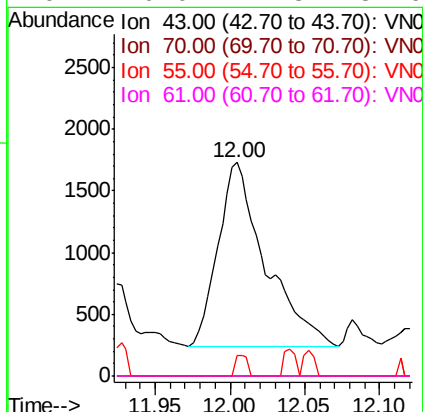
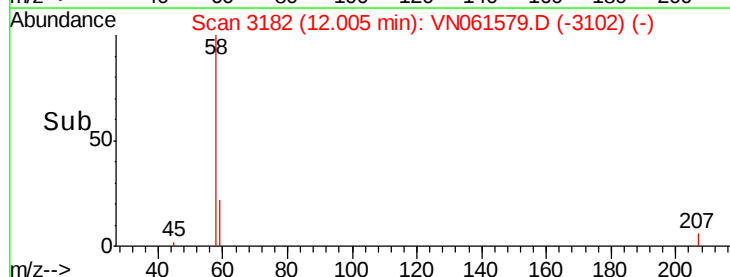


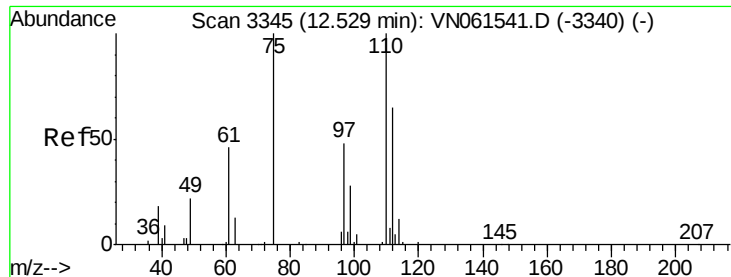
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 28.363 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061579.D

Acq: 29 May 2020 19:53

Instrument :

MSVOA_N

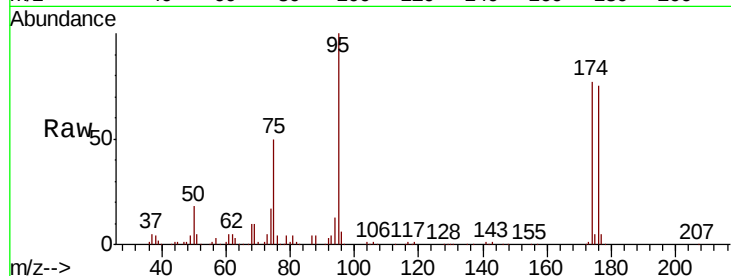
ClientSampleId :

Tot Ion: 75 Resp: 113070

Ion Ratio Lower Upper

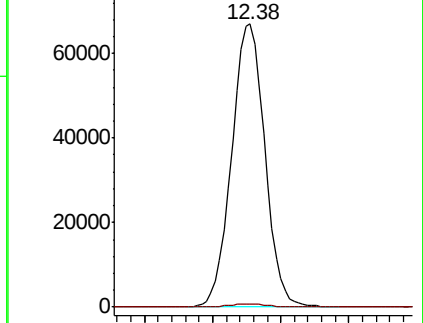
75 100

77 1.2 0.0 0.0#

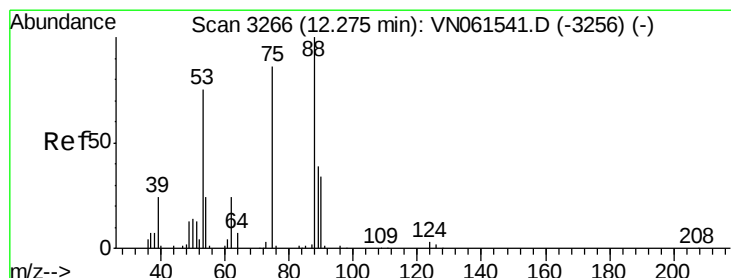
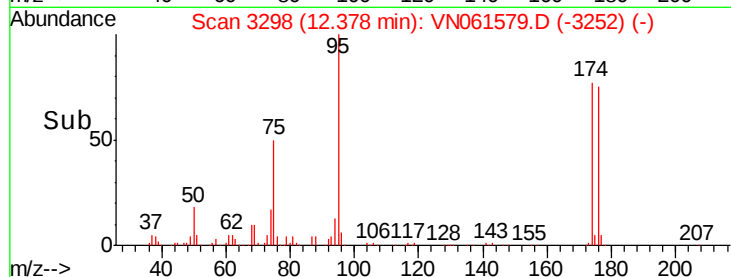


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 72.531 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061579.D

Acq: 29 May 2020 19:53

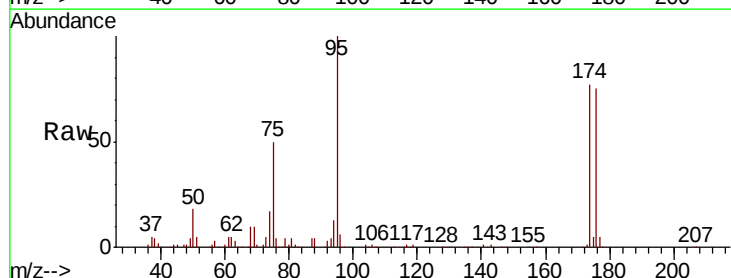
Tgt Ion: 75 Resp: 113070

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

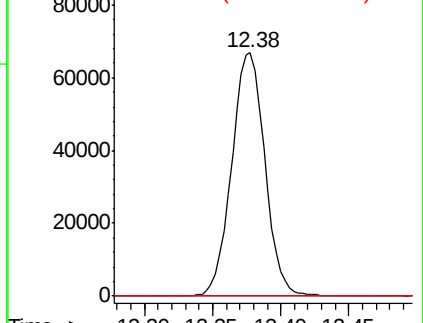
89 0.0 37.1 55.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time-->

