

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121719\
 Data File : VN059635.D
 Acq On : 17 Dec 2019 19:10
 Operator : JC/SP
 Sample : K6330-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 11444

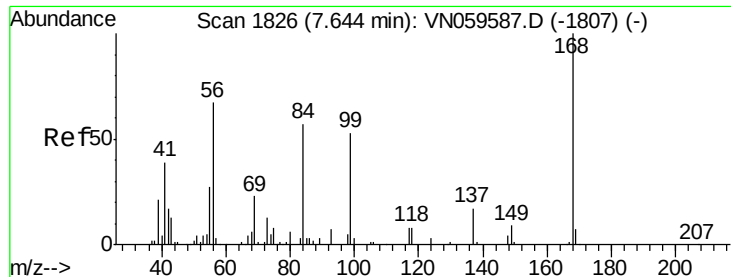
Quant Time: Dec 18 05:50:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 13 23:17:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	222101	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	359505	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	385248	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	144364	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	164509	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
35) Dibromofluoromethane	7.56	113	116651	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
50) Toluene-d8	10.08	98	499057	56.04	ug/l	0.00
Spiked Amount			Recovery	=	112.08%	
62) 4-Bromofluorobenzene	12.40	95	153109	47.12	ug/l	0.00
Spiked Amount			Recovery	=	94.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	979	1.652	ug/l #	72
16) Acetone	3.79	43	13772	7.177	ug/l	98
17) Carbon Disulfide	4.01	76	533	1.948	ug/l #	75
18) Methyl Acetate	4.30	43	6055	1.506	ug/l #	87
20) Methylene Chloride	4.51	84	6265	2.261	ug/l	98
25) 2-Butanone	6.81	43	2497	1.088	ug/l	92
31) Cyclohexane	7.64	56	5504	1.166	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	19434	5.184	ug/l #	50
37) Ethyl Acetate	6.81	43	2497	0.573	ug/l #	69
38) Carbon Tetrachloride	7.64	117	22447	5.770	ug/l #	16
43) Isopropyl Acetate	8.14	43	62986	9.297	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1215	0.411	ug/l #	44
48) Methyl methacrylate	9.17	41	4552	1.481	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	6097	1.509	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	26808	5.706	ug/l #	55
56) Ethyl methacrylate	10.53	69	982	0.250	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	4529	0.985	ug/l #	42
59) 2-Hexanone	10.75	43	61262	19.244	ug/l #	56
74) N-amyl acetate	12.03	43	2130	0.410	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	72535	20.296	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	72535	50.129	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.26	75	453	2.057	ug/l #	6

(#) = 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: VN059635.D

Acq: 17 Dec 2019 19:10

Instrument :

MSVOA_N

ClientSampled :

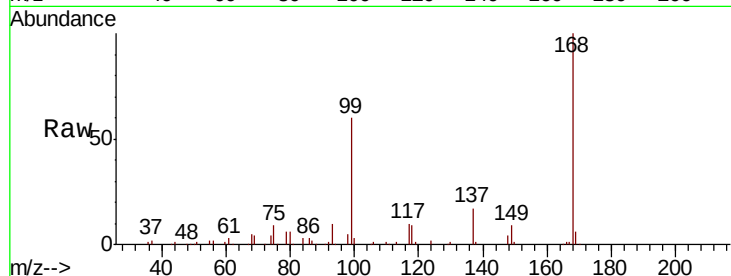
11444

Tot Ion:168 Resp: 222101

Ion Ratio Lower Upper

168 100

99 59.9 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

100000

80000

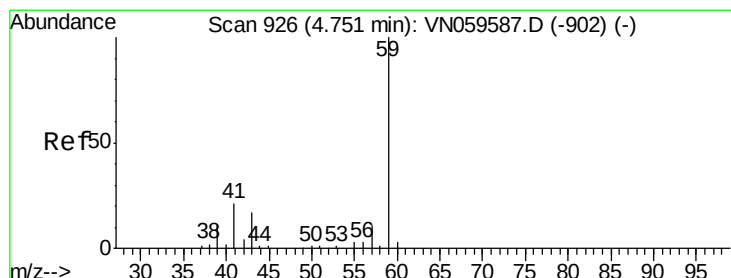
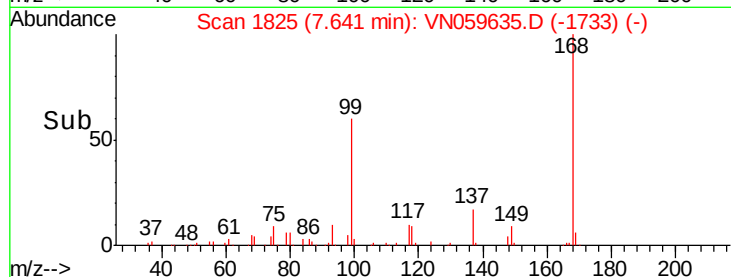
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.652 ug/l

RT: 4.71 min Scan# 914

Delta R.T. -0.04 min

Lab File: VN059635.D

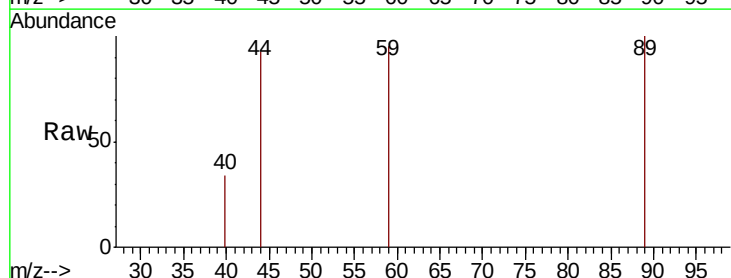
Acq: 17 Dec 2019 19:10

Tgt Ion: 59 Resp: 979

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.71

500

400

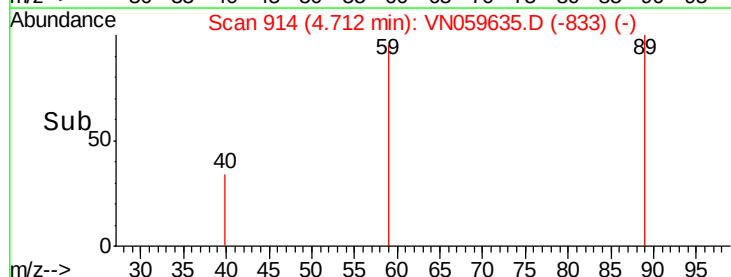
300

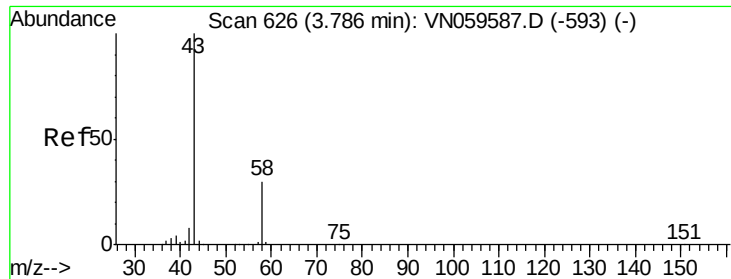
200

100

0

Time-->





#16

Acetone

Concen: 7.177 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.00 min

Lab File: VN059635.D

Acq: 17 Dec 2019 19:10

Instrument :

MSVOA_N

ClientSampled :

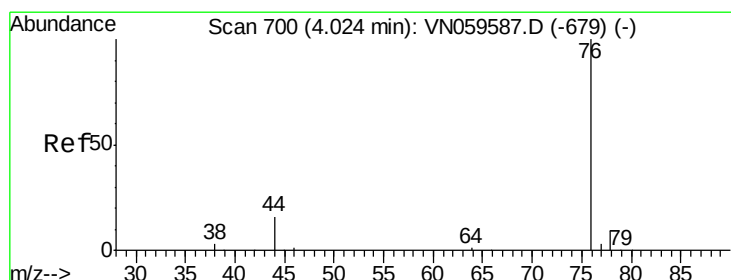
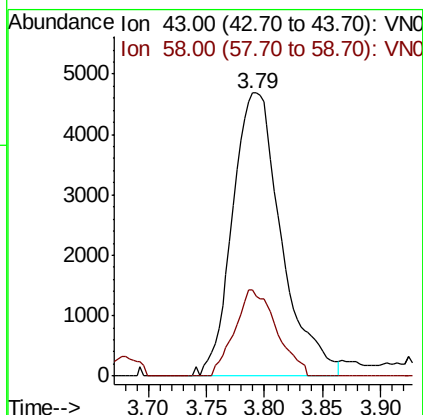
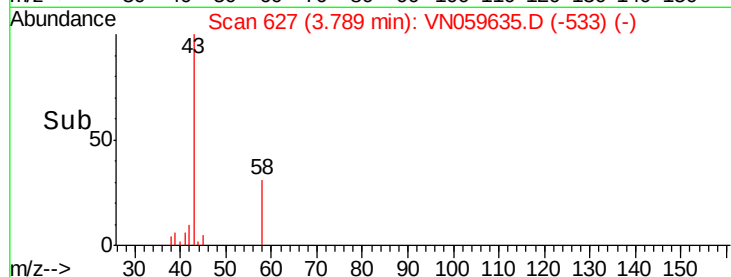
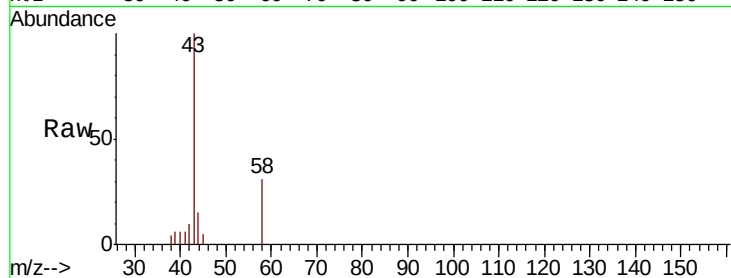
11444

Tot Ion: 43 Resp: 13772

Ion Ratio Lower Upper

43 100

58 30.6 23.6 35.4



#17

Carbon Disulfide

Concen: 1.948 ug/l

RT: 4.01 min Scan# 696

Delta R.T. -0.01 min

Lab File: VN059635.D

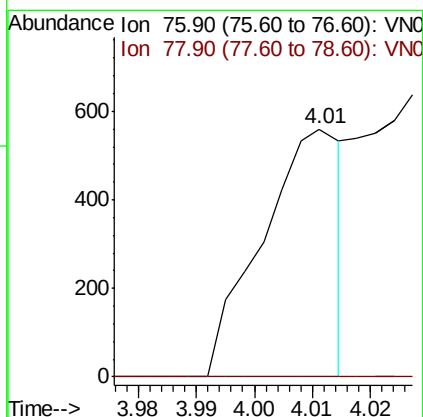
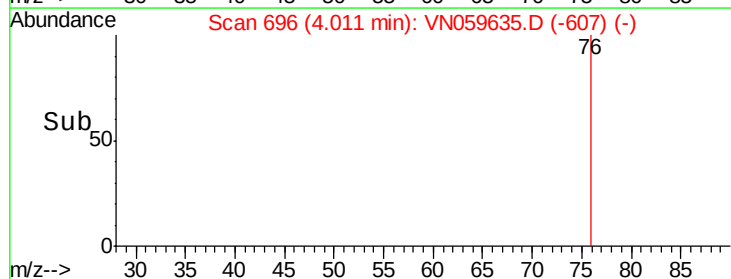
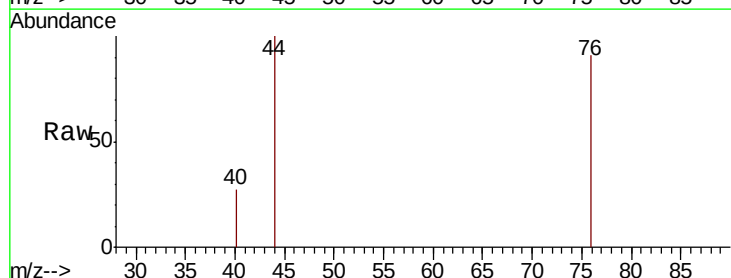
Acq: 17 Dec 2019 19:10

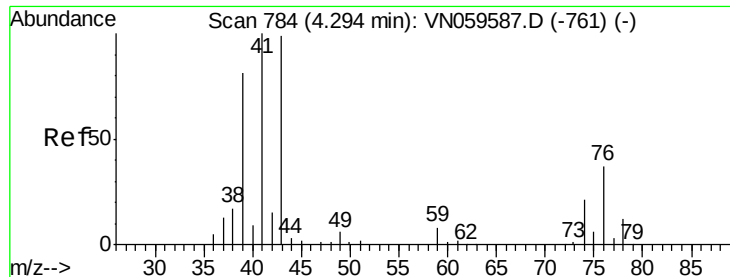
Tgt Ion: 76 Resp: 533

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#

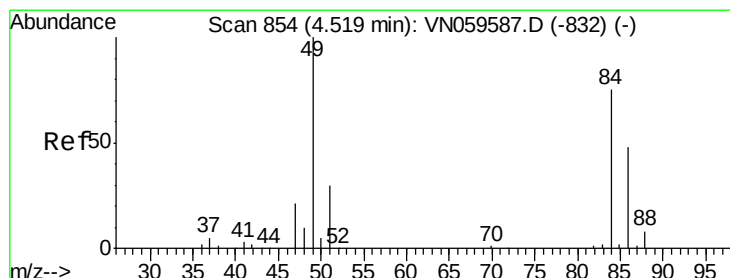
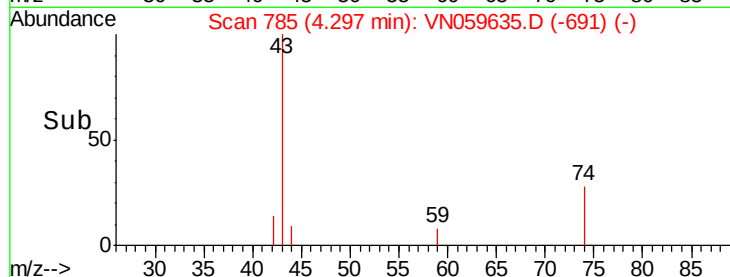
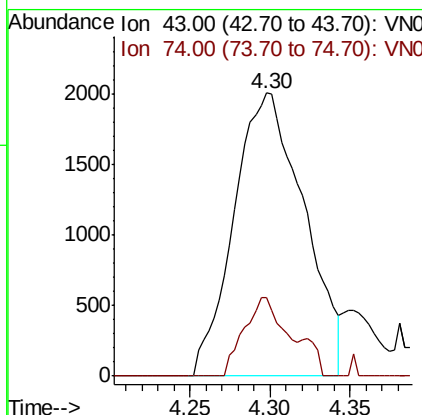
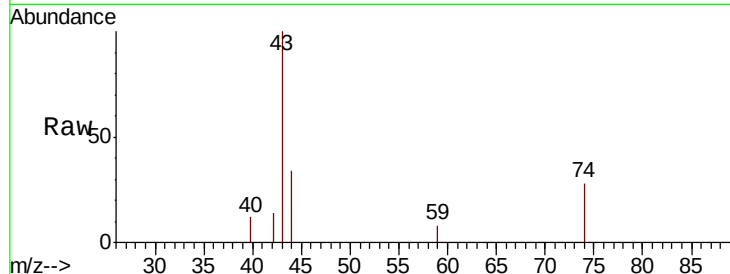




#18
Methyl Acetate
Concen: 1.506 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.00 min
Lab File: VN059635.D
Acq: 17 Dec 2019 19:10

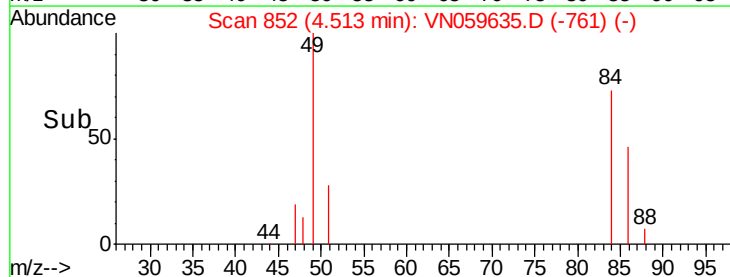
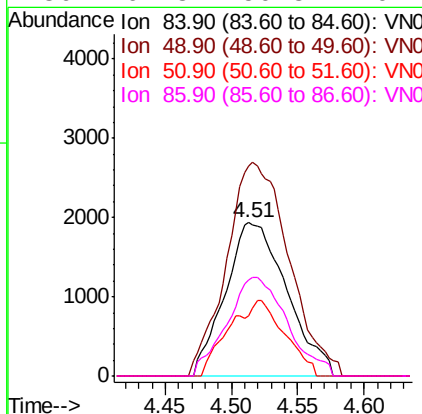
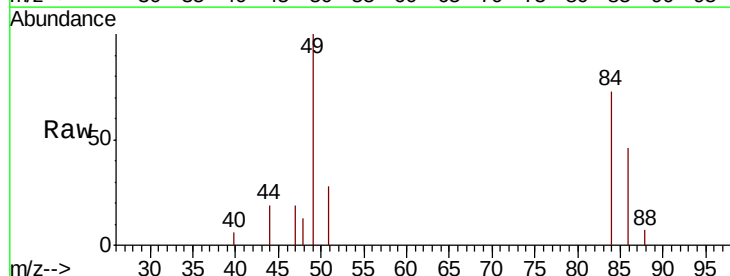
Instrument :
MSVOA_N
ClientSampled :
11444

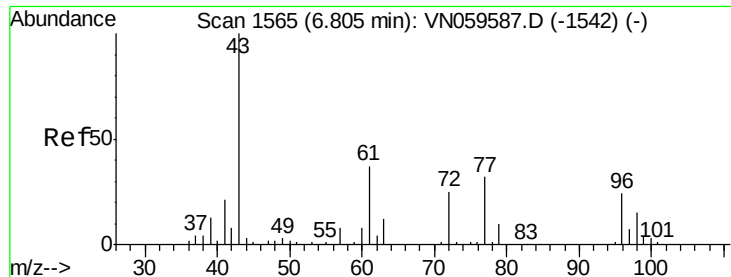
Tot Ion: 43 Resp: 6055
Ion Ratio Lower Upper
43 100
74 15.7 17.5 26.3#



#20
Methylene Chloride
Concen: 2.261 ug/l
RT: 4.51 min Scan# 852
Delta R.T. -0.01 min
Lab File: VN059635.D
Acq: 17 Dec 2019 19:10

Tgt Ion: 84 Resp: 6265
Ion Ratio Lower Upper
84 100
49 137.0 106.6 160.0
51 39.0 31.9 47.9
86 62.8 50.8 76.2

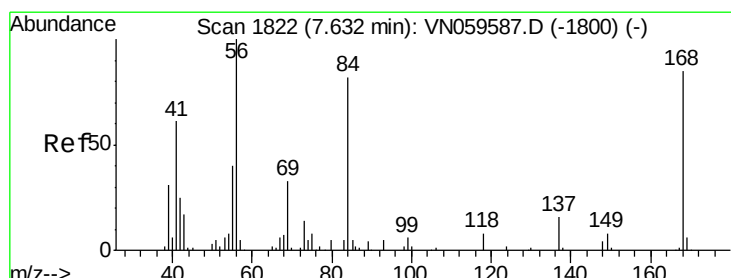
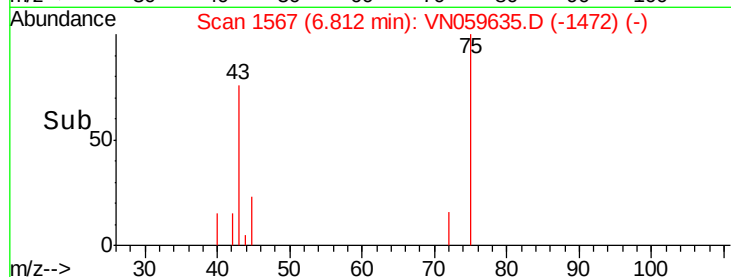
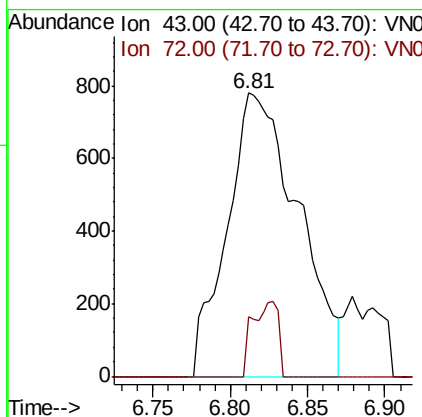
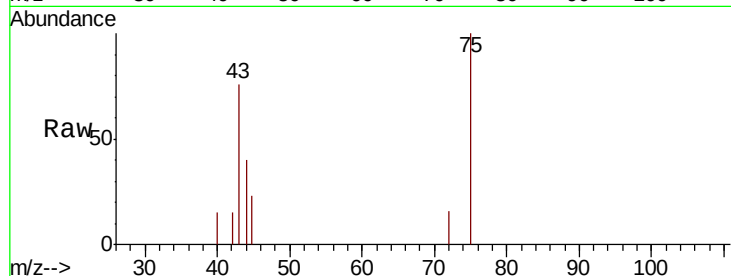




#25
2-Butanone
Concen: 1.088 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN059635.D
Acq: 17 Dec 2019 19:10

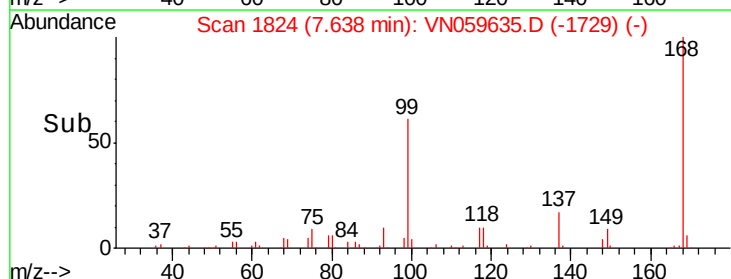
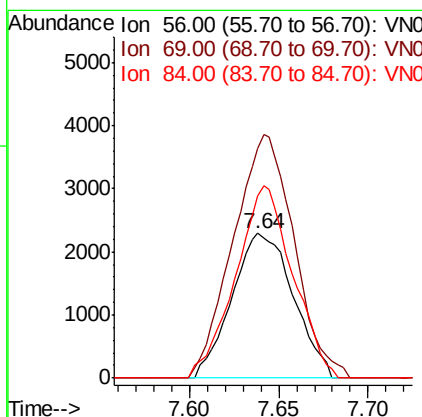
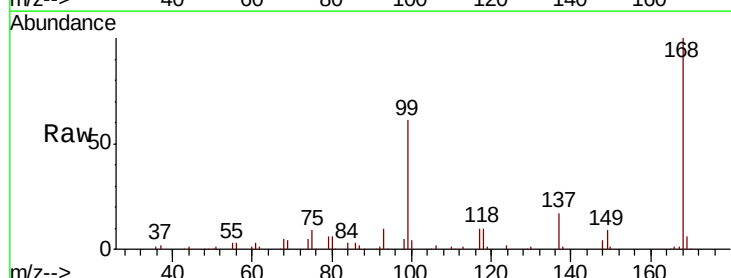
Instrument :
MSVOA_N
ClientSampled :
11444

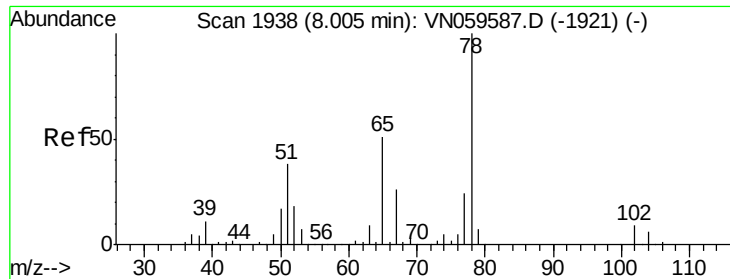
Tot Ion: 43 Resp: 2497
Ion Ratio Lower Upper
43 100
72 20.9 19.9 29.9



#31
Cyclohexane
Concen: 1.166 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059635.D
Acq: 17 Dec 2019 19:10

Tgt Ion: 56 Resp: 5504
Ion Ratio Lower Upper
56 100
69 158.2 26.5 39.7#
84 125.7 65.3 97.9#

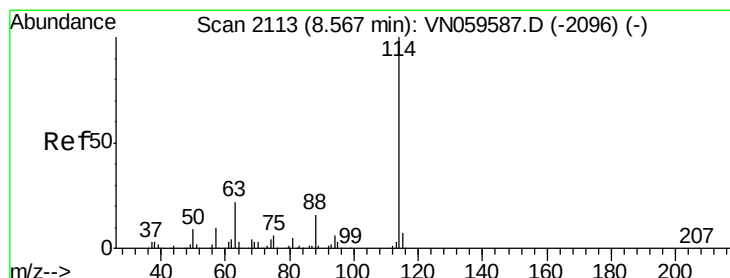
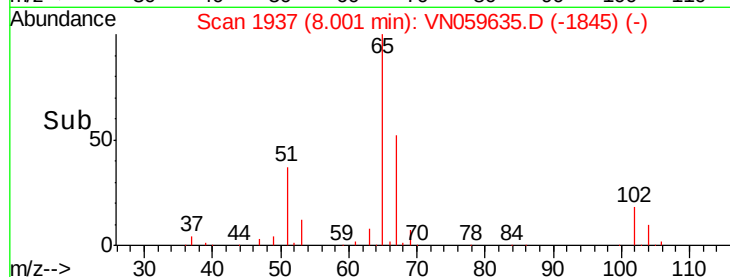
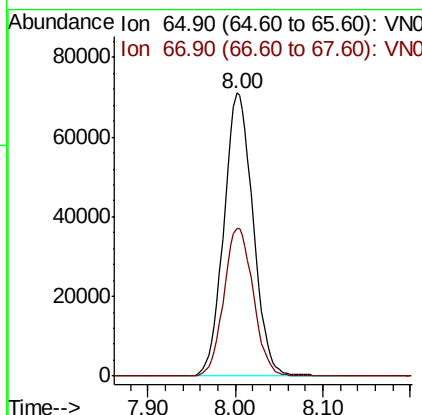
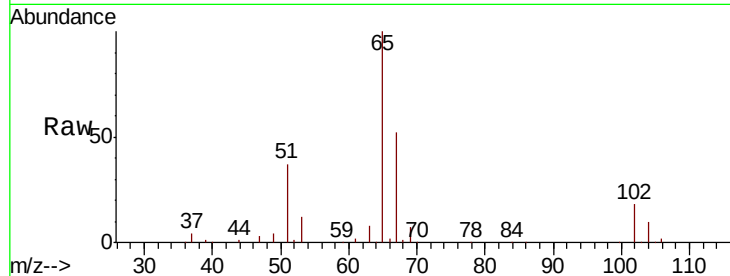




#33
 1,2-Dichloroethane-d4
 Concen: 50.902 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN059635.D
 Acq: 17 Dec 2019 19:10

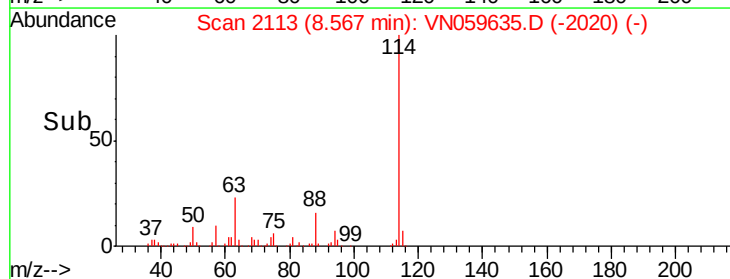
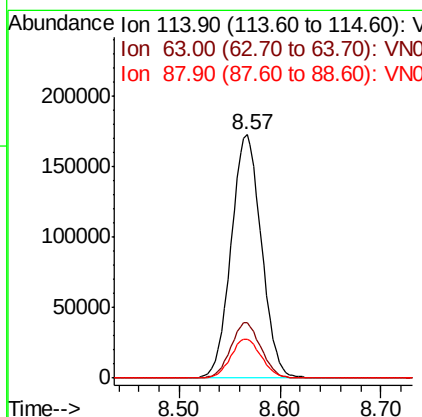
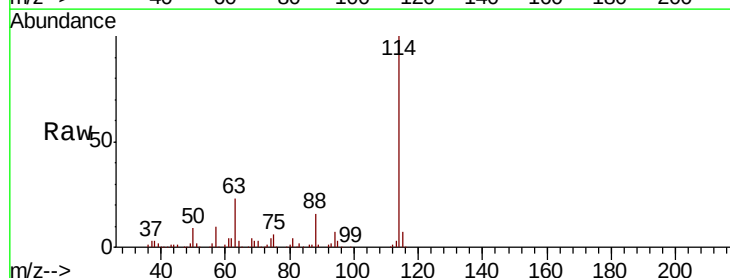
Instrument :
 MSVOA_N
 ClientSampleId :
 11444

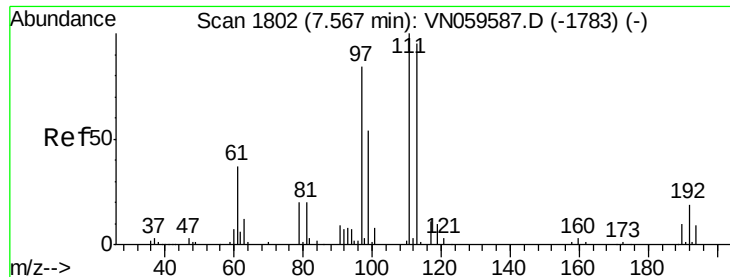
Tot Ion: 65 Resp: 164509
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059635.D
 Acq: 17 Dec 2019 19:10

Tgt Ion: 114 Resp: 359505
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 43.6
 88 16.0 0.0 31.4

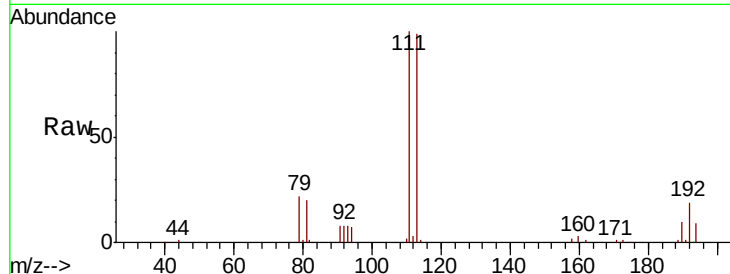




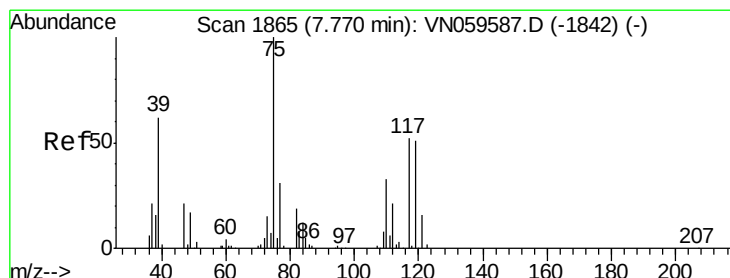
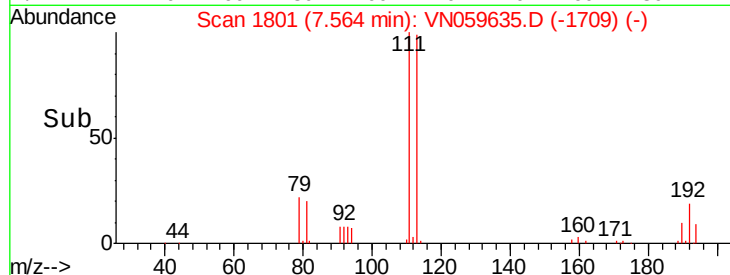
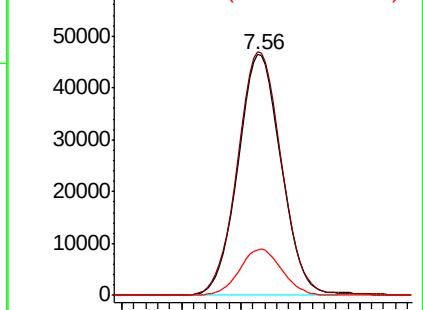
#35
 Dibromofluoromethane
 Concen: 51.859 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN059635.D
 Acq: 17 Dec 2019 19:10

Instrument :
 MSVOA_N
 ClientSampled :
 11444

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	83.5	125.3
192	19.0	15.4	23.2

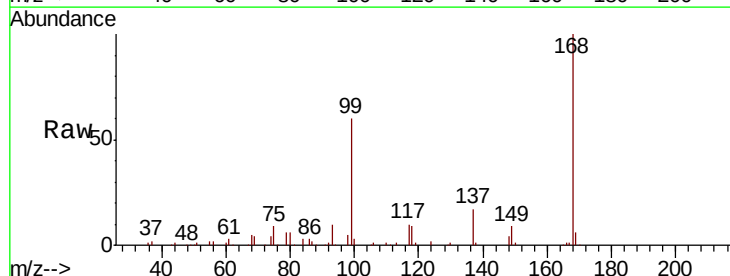


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

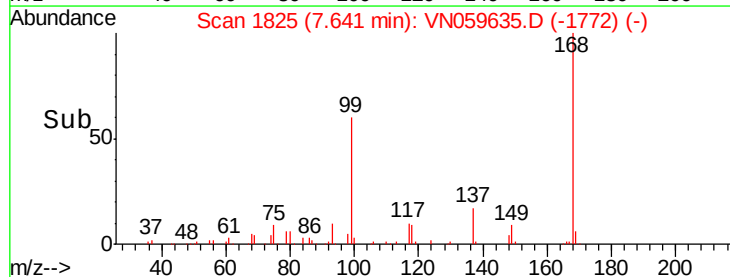
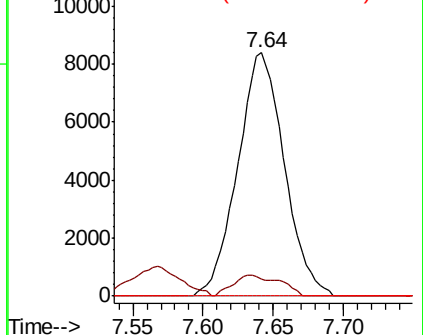


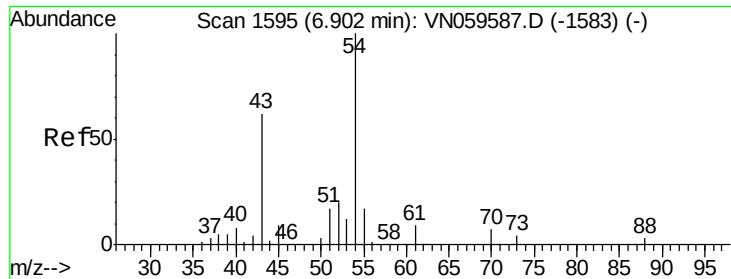
#36
 1,1-Dichloropropene
 Concen: 5.184 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059635.D
 Acq: 17 Dec 2019 19:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.6	49.7#
77	0.0	25.1	37.7#



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

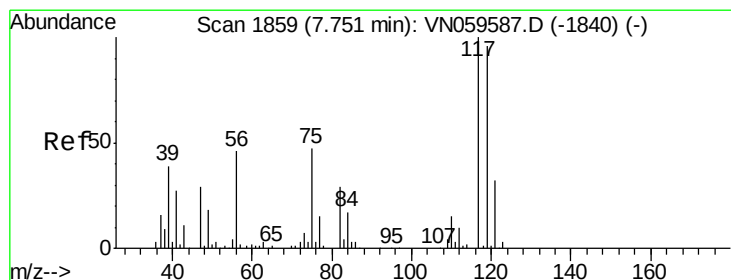
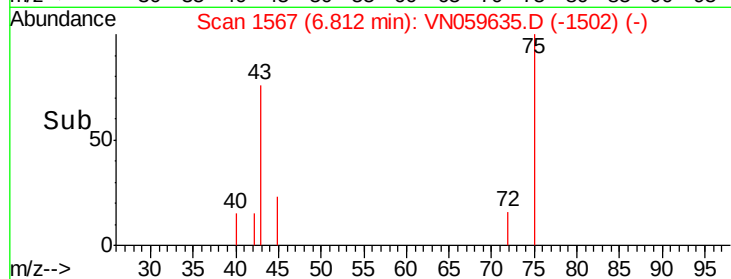
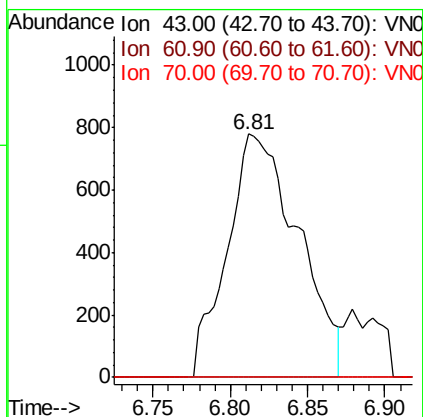
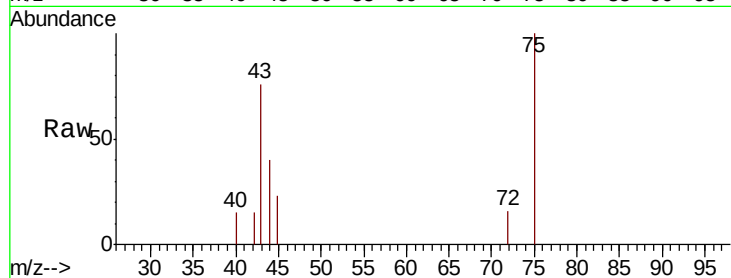




#37
Ethyl Acetate
Concen: 0.573 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.09 min
Lab File: VN059635.D
Acq: 17 Dec 2019 19:10

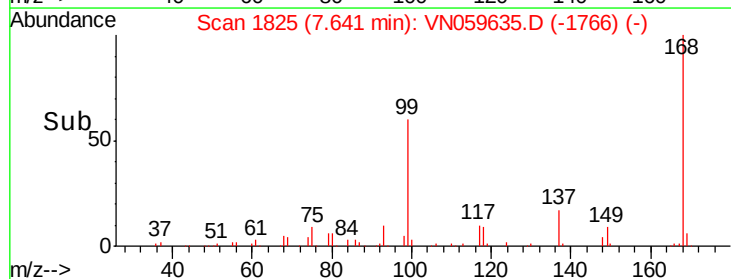
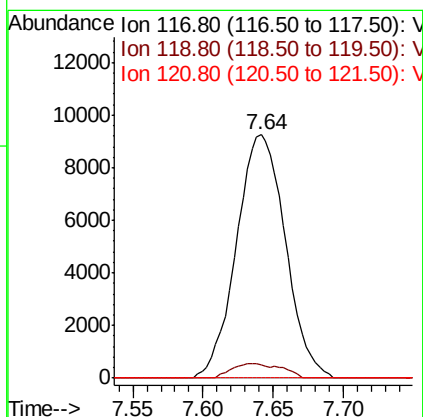
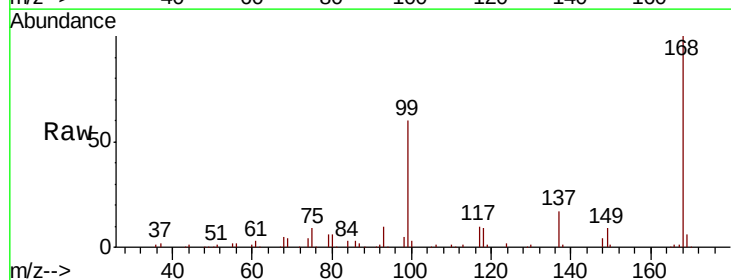
Instrument :
MSVOA_N
ClientSampled :
11444

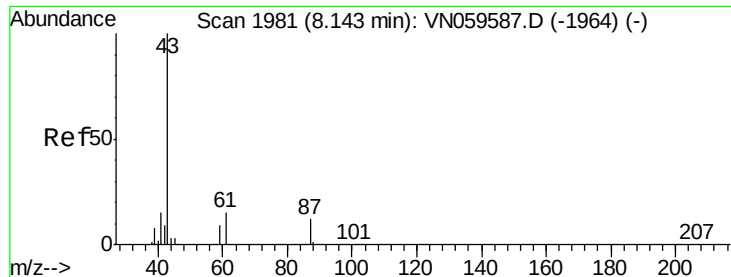
Tot Ion: 43 Resp: 2497
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 7.7 11.5#



#38
Carbon Tetrachloride
Concen: 5.770 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN059635.D
Acq: 17 Dec 2019 19:10

Tgt Ion: 117 Resp: 22447
Ion Ratio Lower Upper
117 100
119 5.3 76.5 114.7#
121 0.0 25.1 37.7#





#43

Isopropyl Acetate

Concen: 9.297 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059635.D

Acq: 17 Dec 2019 19:10

Instrument :

MSVOA_N

ClientSampled :

11444

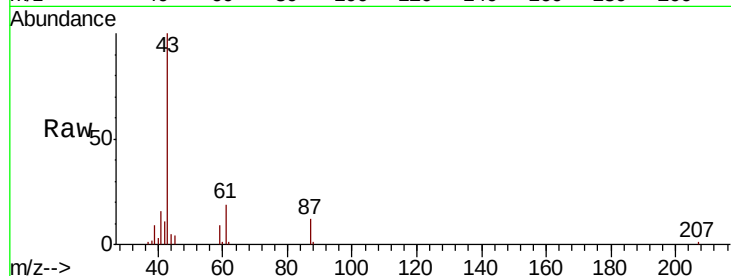
Tot Ion: 43 Resp: 62986

Ion Ratio Lower Upper

43 100

61 18.1 20.2 30.2#

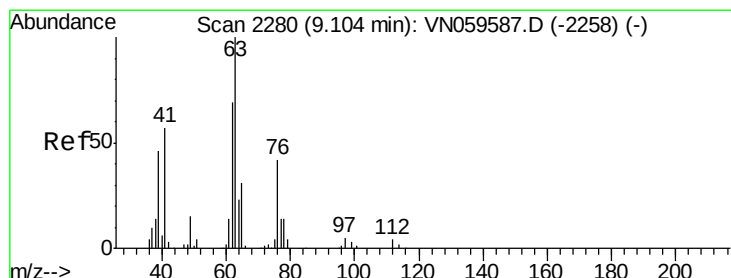
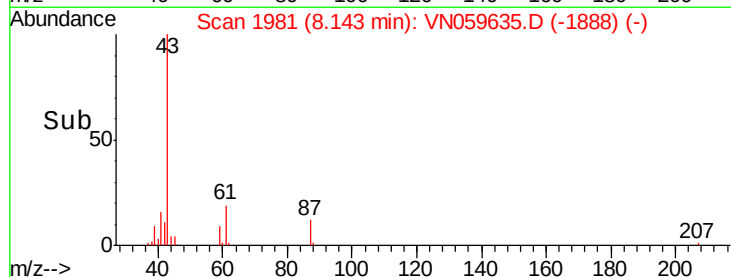
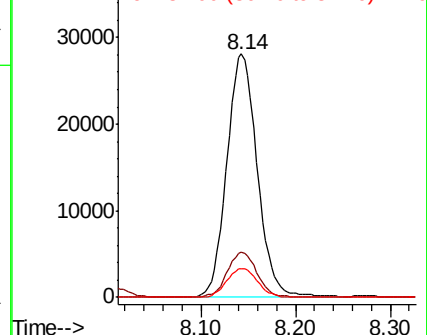
87 11.9 9.5 14.3



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: 0.411 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059635.D

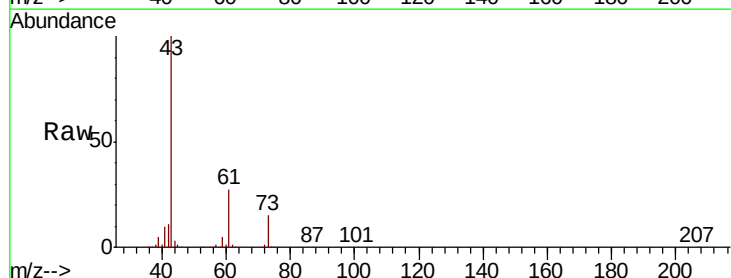
Acq: 17 Dec 2019 19:10

Tgt Ion: 63 Resp: 1215

Ion Ratio Lower Upper

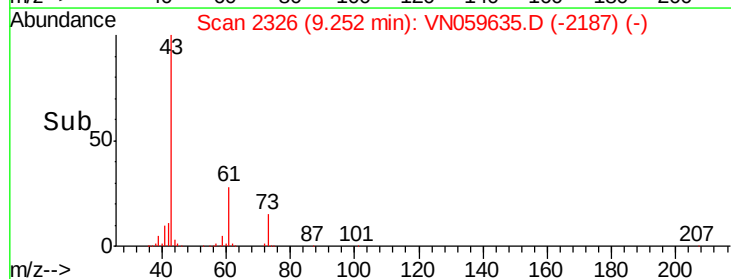
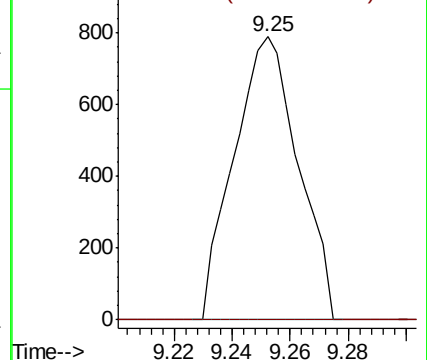
63 100

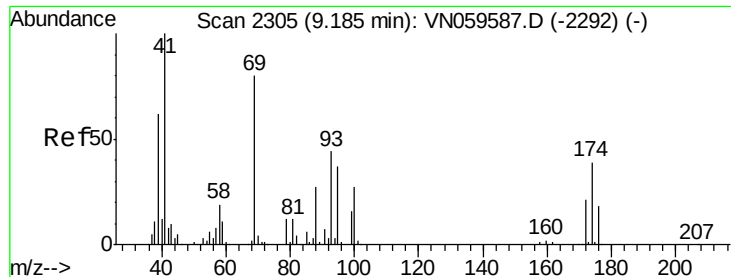
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

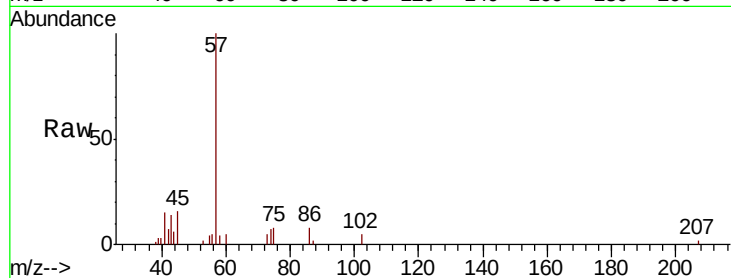




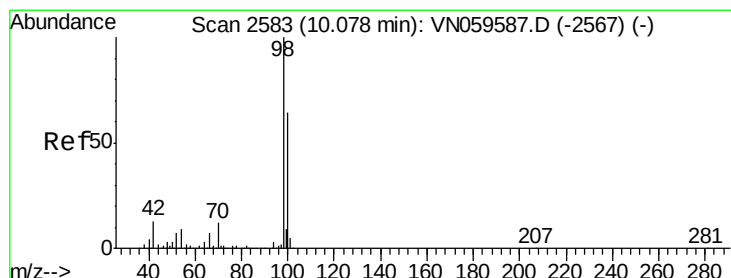
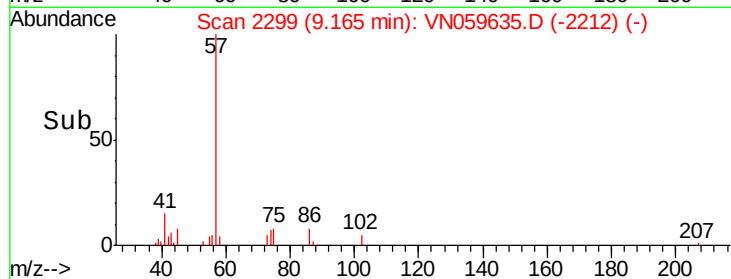
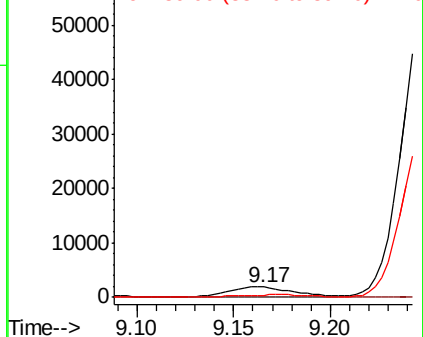
#48
Methvl methacrylate
Concen: 1.481 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN059635.D
Acq: 17 Dec 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
11444

Tot Ion: 41 Resp: 4552
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

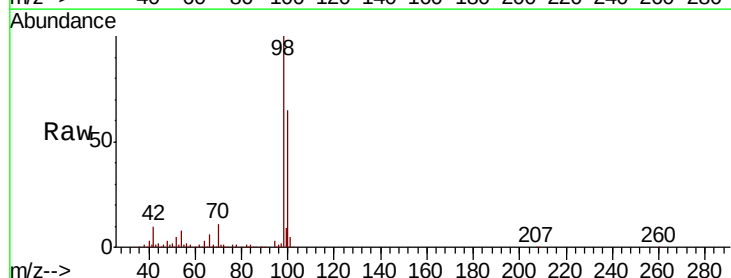


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

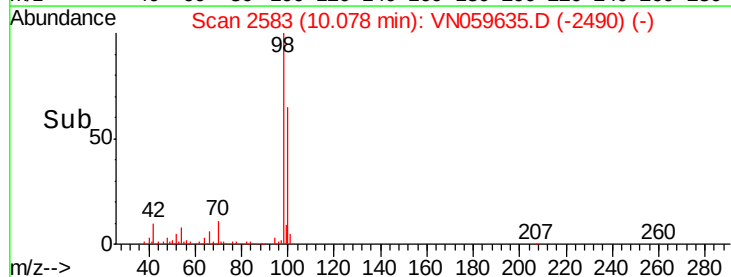
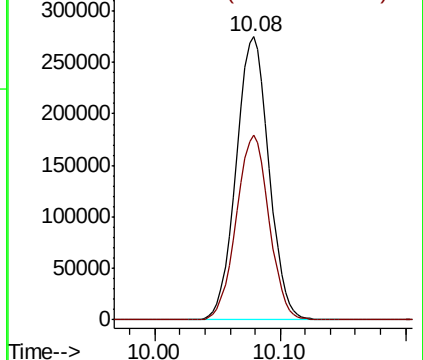


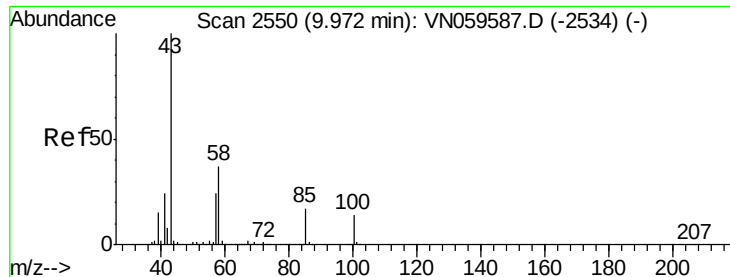
#50
Toluene-d8
Concen: 56.038 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059635.D
Acq: 17 Dec 2019 19:10

Tgt Ion: 98 Resp: 499057
Ion Ratio Lower Upper
98 100
100 65.3 51.2 76.8



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: 1.509 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059635.D

Acq: 17 Dec 2019 19:10

Instrument :

MSVOA_N

ClientSampled :

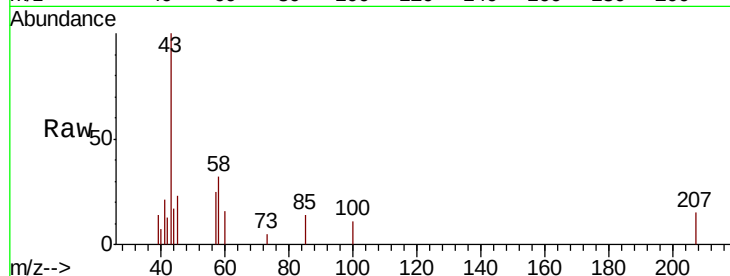
11444

Tot Ion: 43 Resp: 6097

Ion Ratio Lower Upper

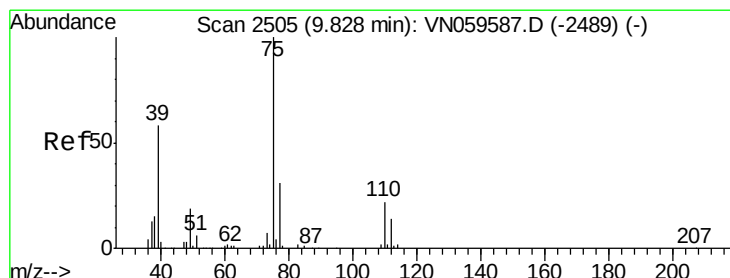
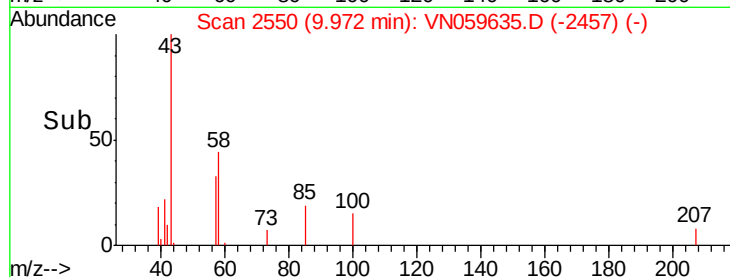
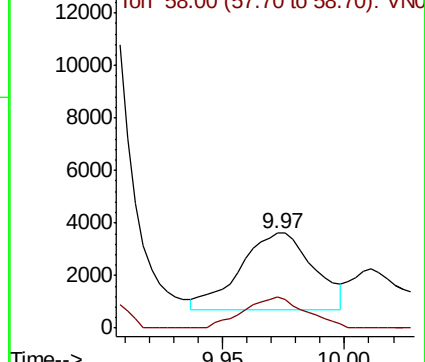
43 100

58 34.4 29.8 44.8



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: 5.706 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.06 min

Lab File: VN059635.D

Acq: 17 Dec 2019 19:10

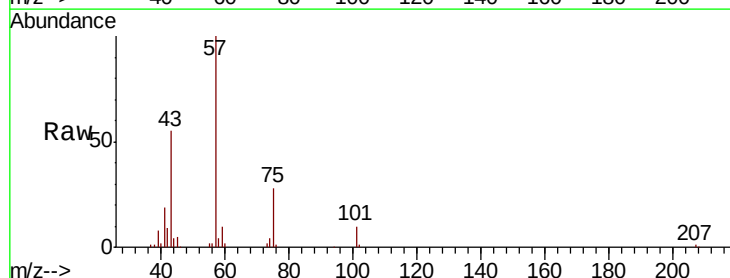
Tgt Ion: 75 Resp: 26808

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

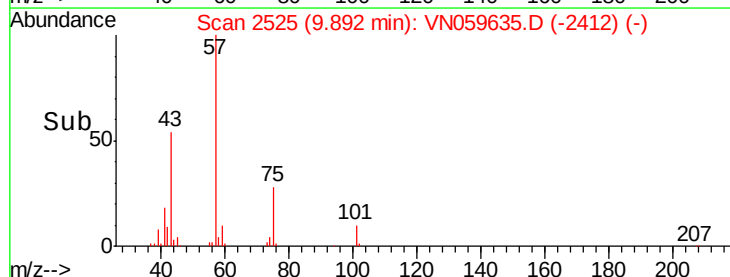
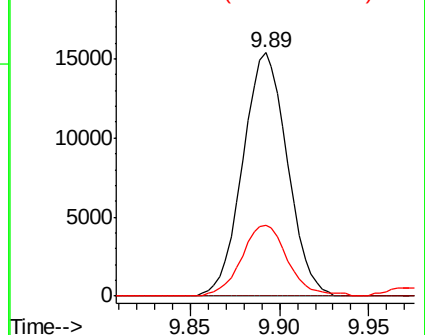
39 29.3 46.1 69.1#

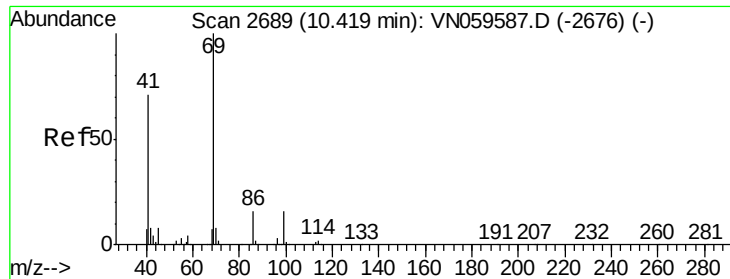


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.250 ug/l

RT: 10.53 min Scan# 2723

Delta R.T. 0.11 min

Lab File: VN059635.D

Acq: 17 Dec 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

11444

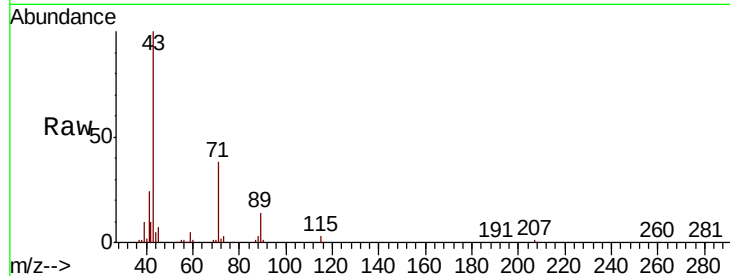
Tot Ion: 69 Resp: 982

Ion Ratio Lower Upper

69 100

41 4416.6 57.1 85.7#

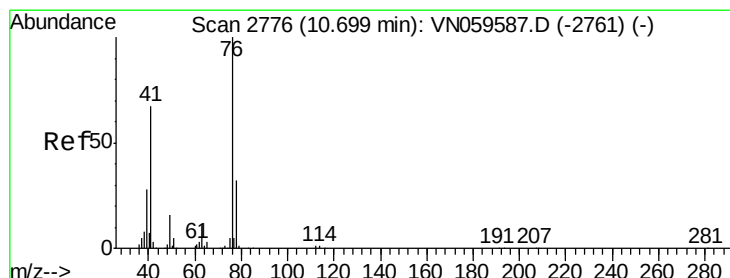
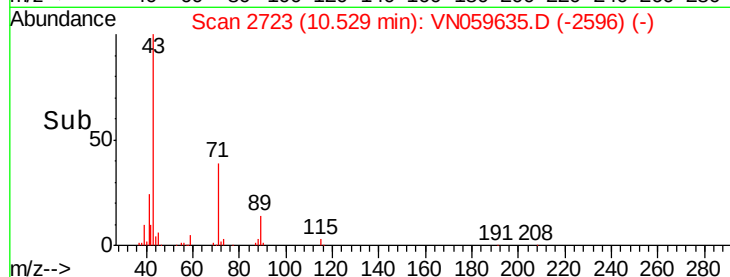
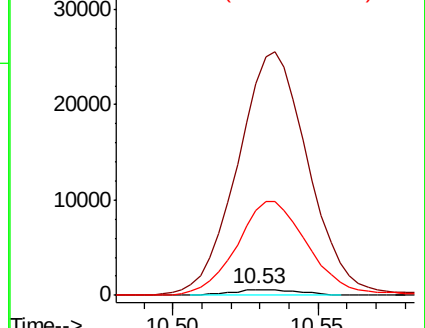
39 1726.2 34.7 52.1#



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: 0.985 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.05 min

Lab File: VN059635.D

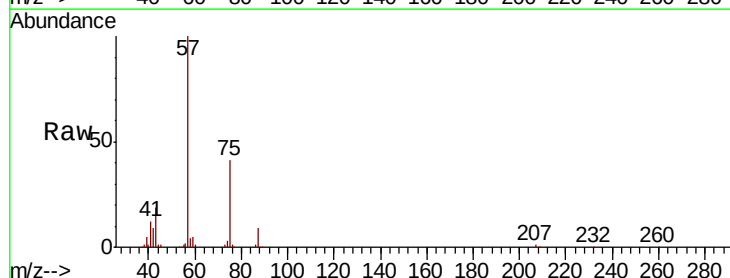
Acq: 17 Dec 2019 19:10

Tgt Ion: 76 Resp: 4529

Ion Ratio Lower Upper

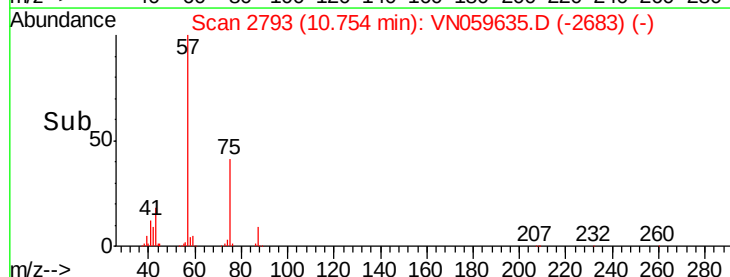
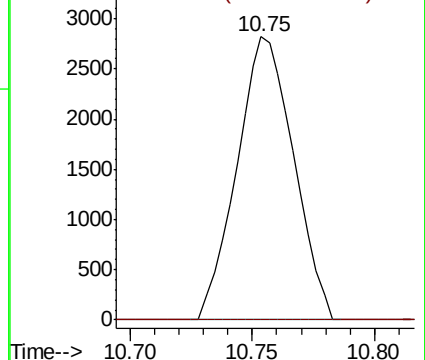
76 100

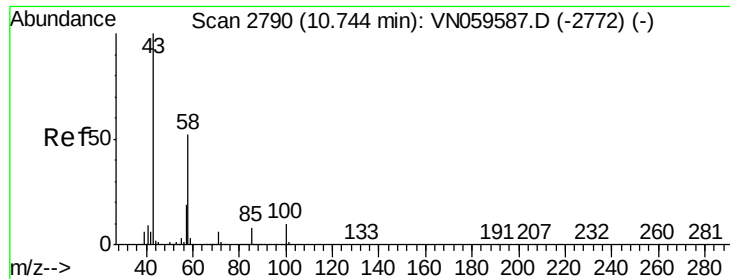
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

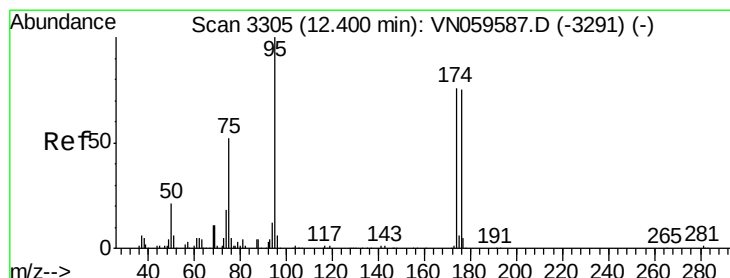
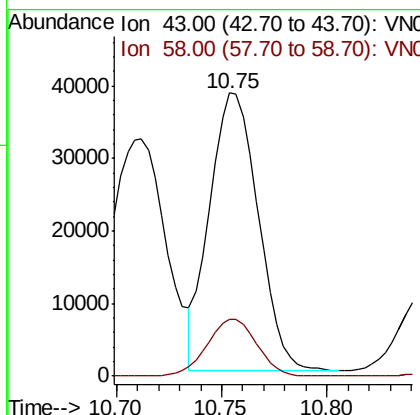
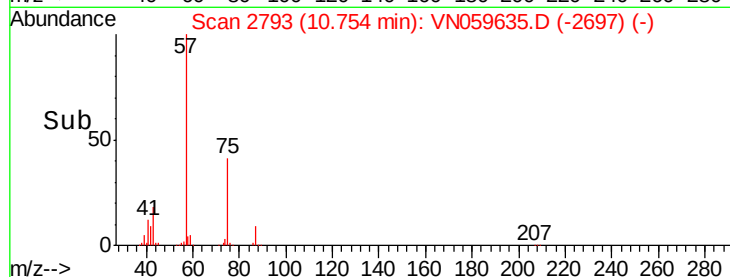
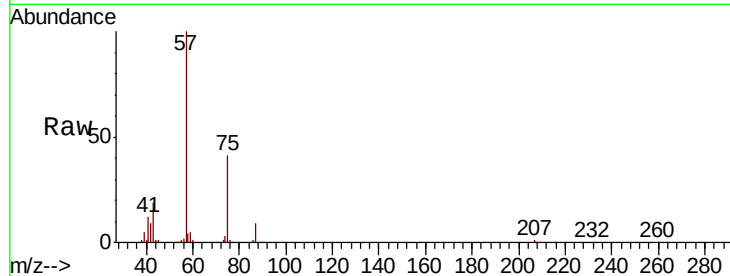




#59
2-Hexanone
Concen: 19.244 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059635.D
Acq: 17 Dec 2019 19:10

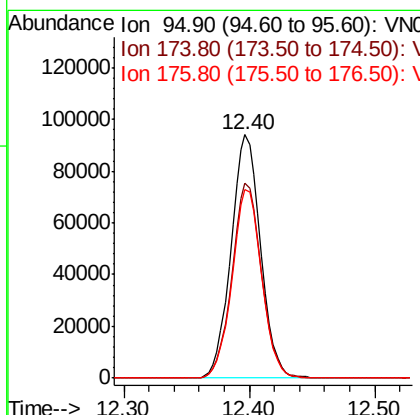
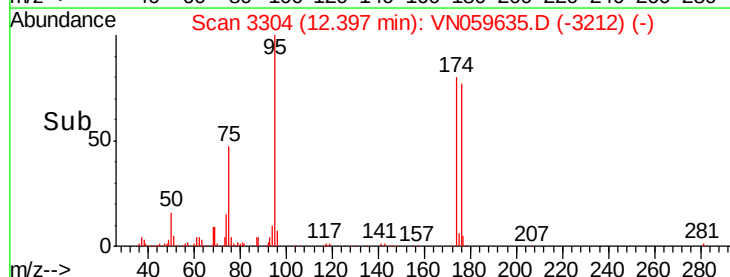
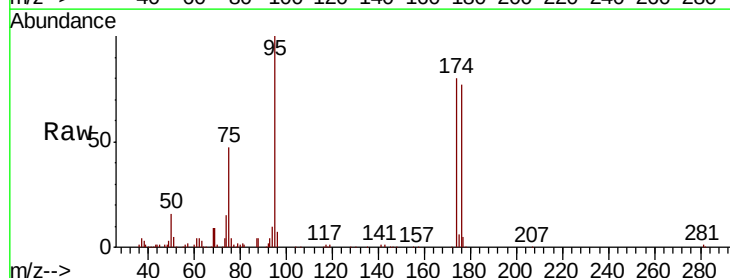
Instrument :
MSVOA_N
ClientSampleId :
11444

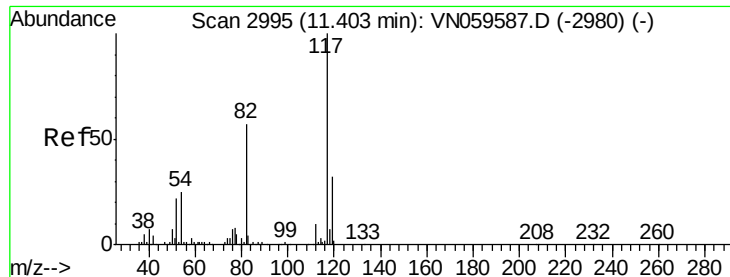
Tot Ion: 43 Resp: 61262
Ion Ratio Lower Upper
43 100
58 20.8 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 47.117 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN059635.D
Acq: 17 Dec 2019 19:10

Tgt Ion: 95 Resp: 153109
Ion Ratio Lower Upper
95 100
174 80.4 0.0 151.4
176 77.8 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN059635.D

Acq: 17 Dec 2019 19:10

Instrument :

MSVOA_N

ClientSampled :

11444

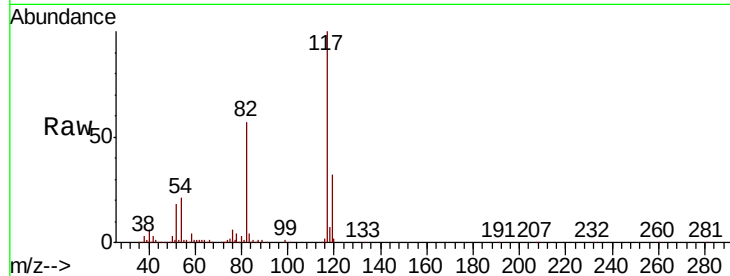
Tot Ion:117 Resp: 385248

Ion Ratio Lower Upper

117 100

82 56.7 45.9 68.9

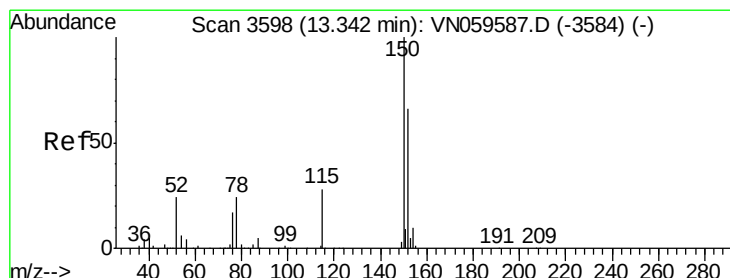
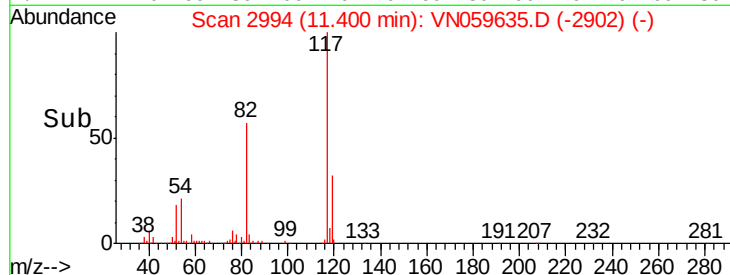
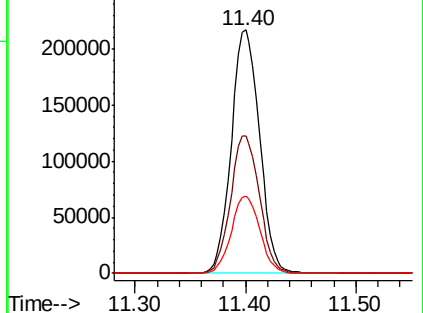
119 31.9 25.5 38.3



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN059635.D

Acq: 17 Dec 2019 19:10

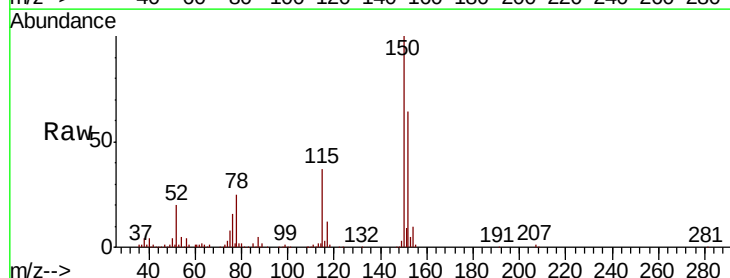
Tgt Ion:152 Resp: 144364

Ion Ratio Lower Upper

152 100

115 58.4 30.3 90.9

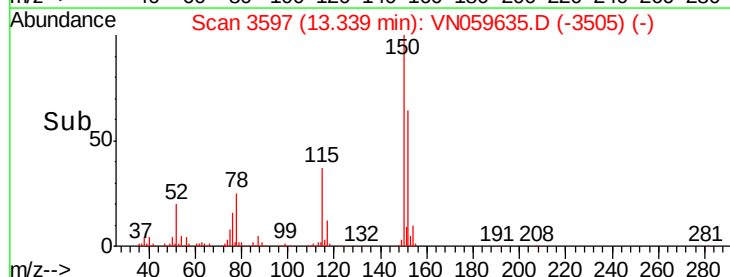
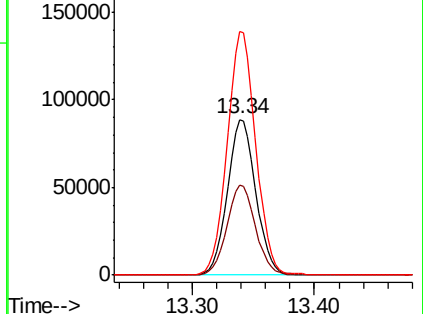
150 157.4 0.0 345.2

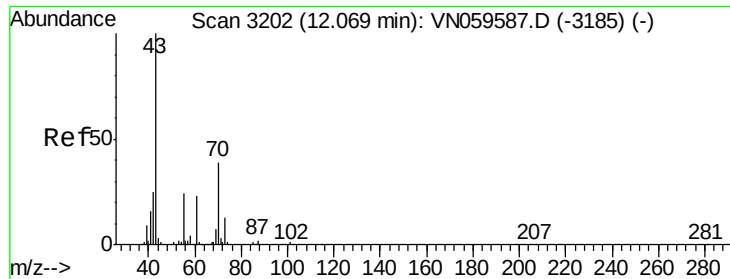


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.410 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059635.D

Acq: 17 Dec 2019 19:10

Instrument :

MSVOA_N

ClientSampled :

11444

Tot Ion: 43 Resp: 2130

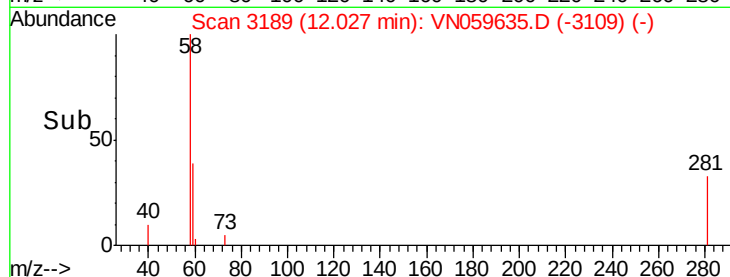
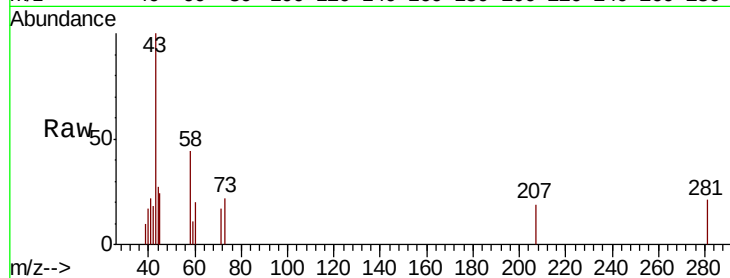
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

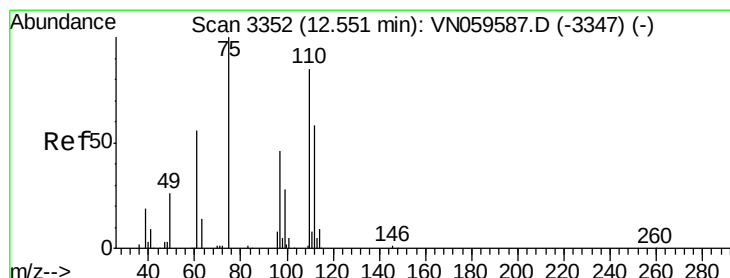
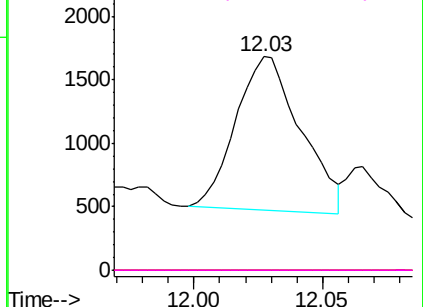


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 20.296 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059635.D

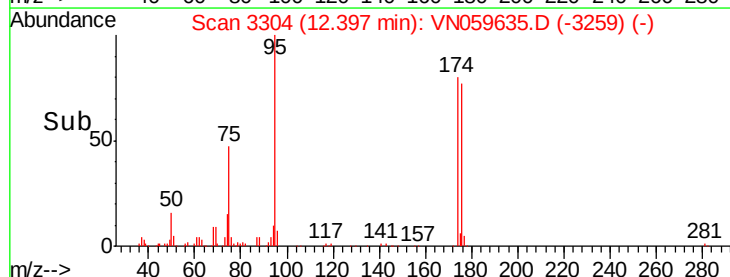
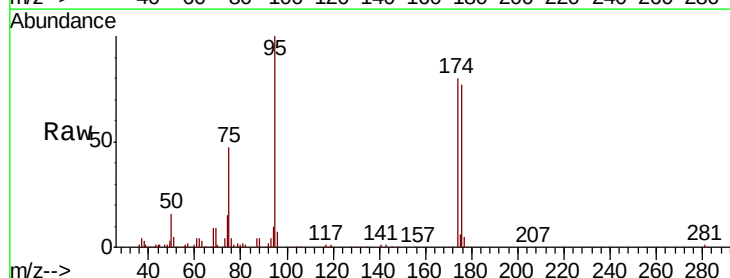
Acq: 17 Dec 2019 19:10

Tgt Ion: 75 Resp: 72535

Ion Ratio Lower Upper

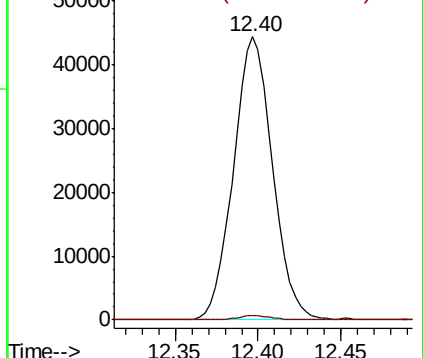
75 100

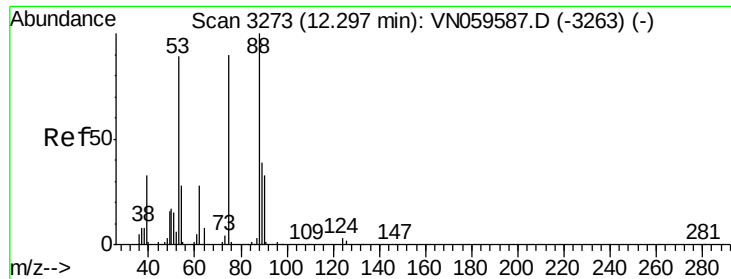
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

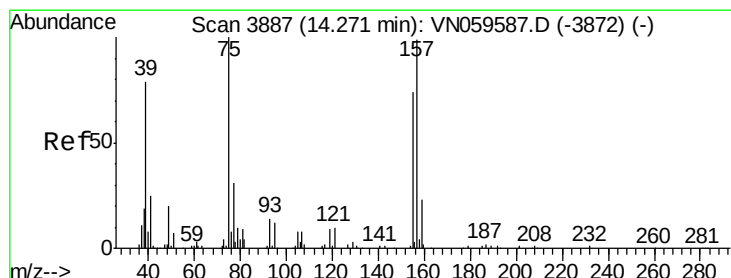
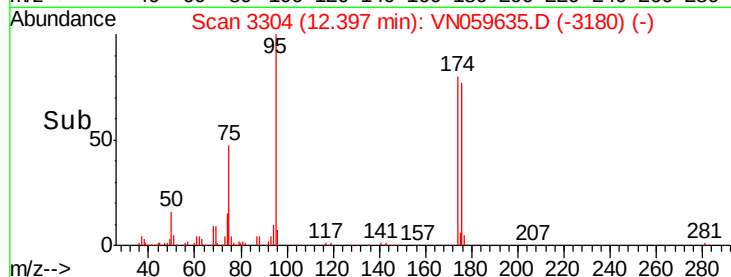
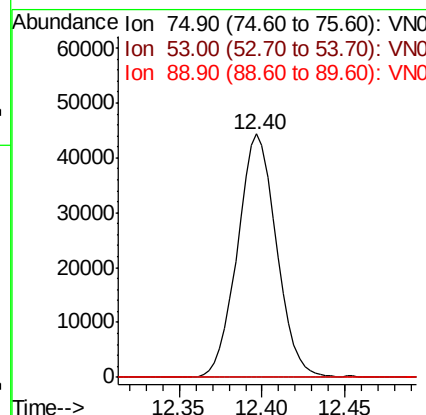
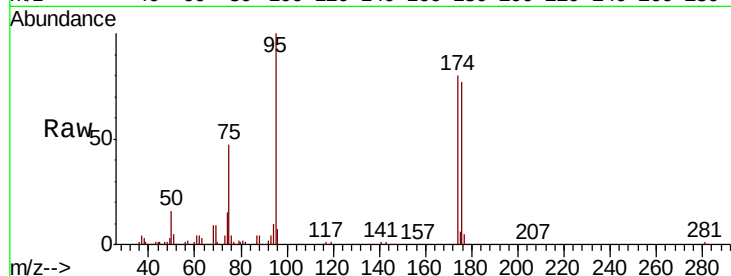




#81
trans-1,4-Dichloro-2-butene
Concen: 50.129 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN059635.D
Acq: 17 Dec 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
11444

Tot Ion: 75 Resp: 72535
Ion Ratio Lower Upper
75 100
53 0.0 78.1 117.1#
89 0.0 35.4 53.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.057 ug/l
RT: 14.26 min Scan# 3884
Delta R.T. -0.01 min
Lab File: VN059635.D
Acq: 17 Dec 2019 19:10

Tgt Ion: 75 Resp: 453
Ion Ratio Lower Upper
75 100
155 0.0 37.0 110.9#
157 0.0 48.4 145.2#

