

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091519\
 Data File : VN058085.D
 Acq On : 15 Sep 2019 12:48
 Operator : JC/SP
 Sample : K4695-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

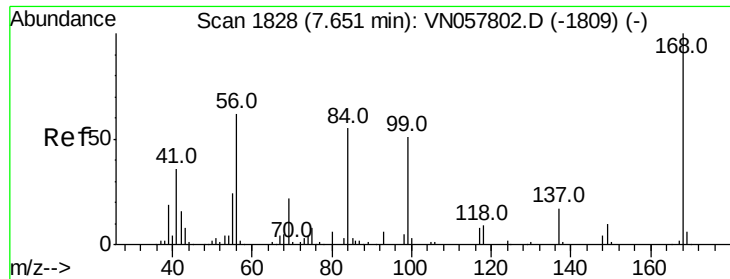
Quant Time: Sep 16 03:40:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	326075	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	534045	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	500313	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	262495	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	371584	56.26	ug/l	0.00
Spiked Amount			Recovery	=	112.52%	
35) Dibromofluoromethane	7.58	113	252468	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	
50) Toluene-d8	10.09	98	992669	51.87	ug/l	0.00
Spiked Amount			Recovery	=	103.74%	
62) 4-Bromofluorobenzene	12.40	95	335598	46.02	ug/l	0.00
Spiked Amount			Recovery	=	92.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	30	Below Cal	#	2
16) Acetone	3.80	43	23146	10.691	ug/l	97
18) Methyl Acetate	4.31	43	5134	0.889	ug/l	94
20) Methylene Chloride	4.53	84	11496	1.598	ug/l	96
25) 2-Butanone	6.84	43	3981	1.270	ug/l #	87
31) Cyclohexane	7.65	56	8234	Below Cal	#	8
36) 1,1-Dichloropropene	7.65	75	27299	4.408	ug/l #	47
38) Carbon Tetrachloride	7.65	117	33601	5.942	ug/l #	15
43) Isopropyl Acetate	8.15	43	114330	10.624	ug/l #	86
45) 1,2-Dichloropropane	9.26	63	1390	0.256	ug/l #	44
48) Methyl methacrylate	9.18	41	6231	1.141	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	9134	1.434	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	47226	6.204	ug/l #	70
56) Ethyl methacrylate	10.54	69	1935	0.258	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6157	0.718	ug/l #	43
59) 2-Hexanone	10.76	43	96310	20.178	ug/l #	52
71) Bromoform	12.40	173	1201	0.424	ug/l #	1
74) N-amyl acetate	12.03	43	5660	0.638	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	183714	30.938	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	183714	108.872	ug/l #	6
95) Naphthalene	15.14	128	1943	Below Cal	#	74
96) 1,2,3-Trichlorobenzene	15.30	180	174	1.030	ug/l #	48

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058085.D

Acq: 15 Sep 2019 12:48

Instrument :

MSVOA_N

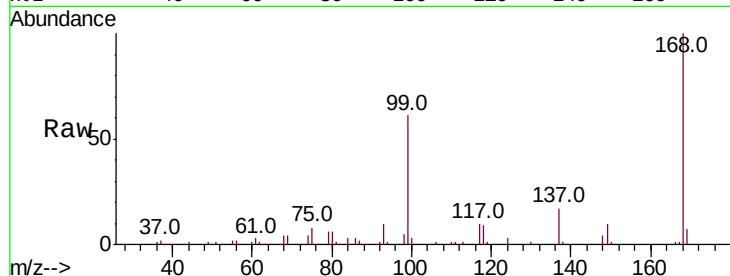
ClientSampled :

Tot Ion:168 Resp: 326075

Ion Ratio Lower Upper

168 100

99 60.9 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

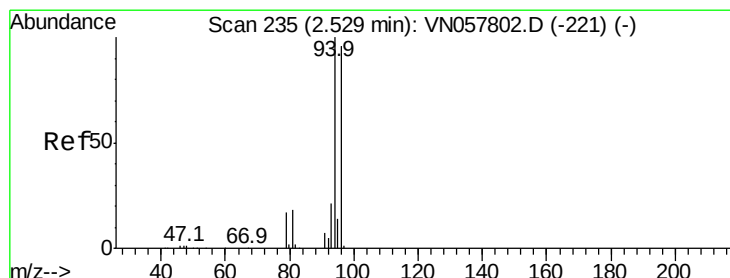
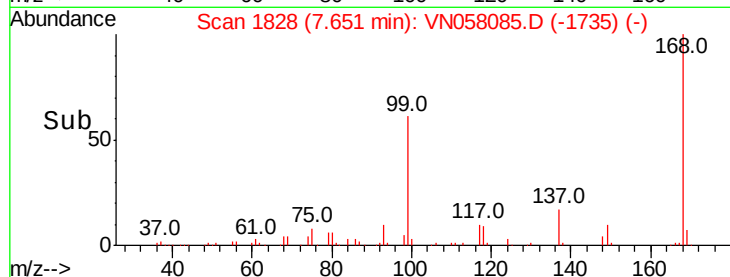
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 238

Delta R.T. 0.01 min

Lab File: VN058085.D

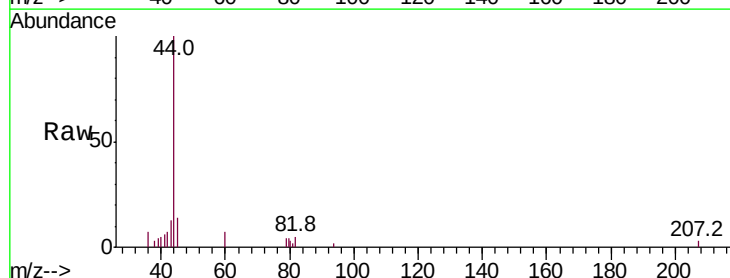
Acq: 15 Sep 2019 12:48

Tgt Ion: 94 Resp: 30

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

250

200

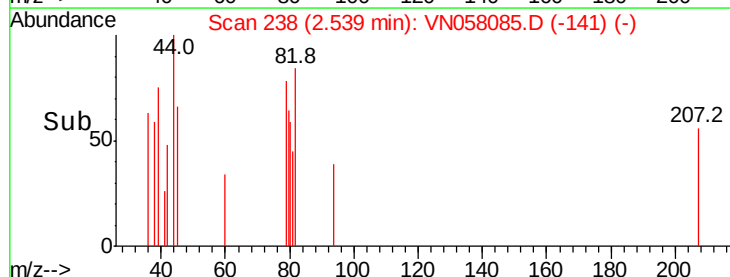
150

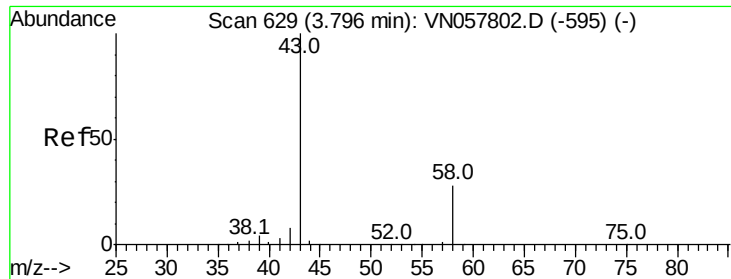
100

50

0

Time-->





#16

Acetone

Concen: 10.691 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058085.D

Acq: 15 Sep 2019 12:48

Instrument :

MSVOA_N

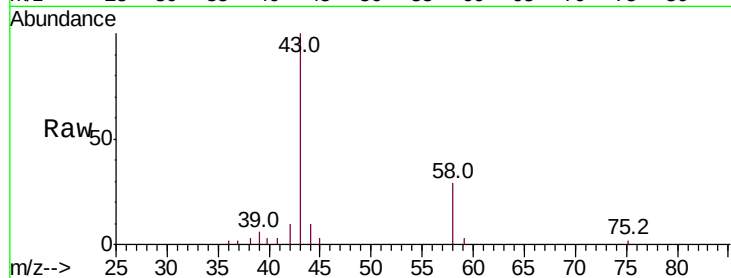
ClientSampled :

Tot Ion: 43 Resp: 23146

Ion Ratio Lower Upper

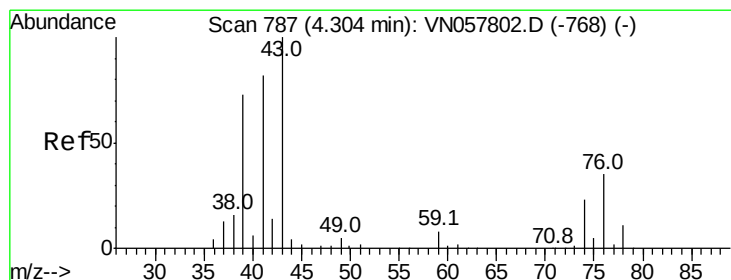
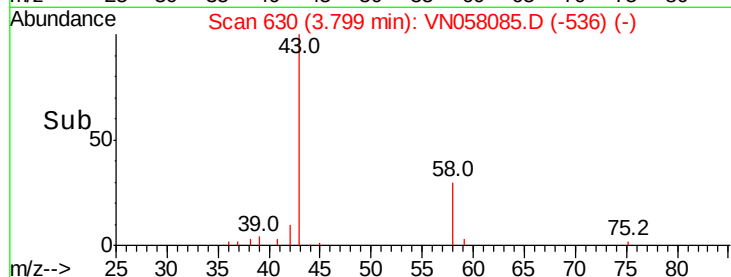
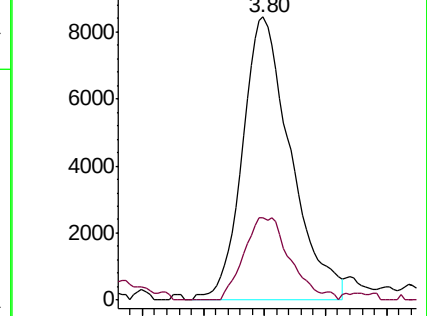
43 100

58 29.1 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.889 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN058085.D

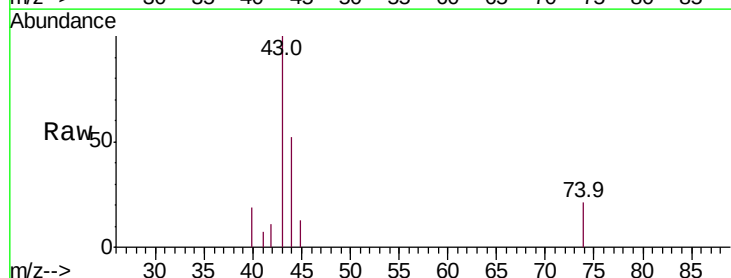
Acq: 15 Sep 2019 12:48

Tgt Ion: 43 Resp: 5134

Ion Ratio Lower Upper

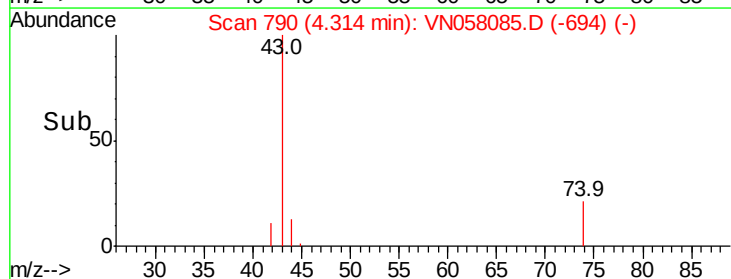
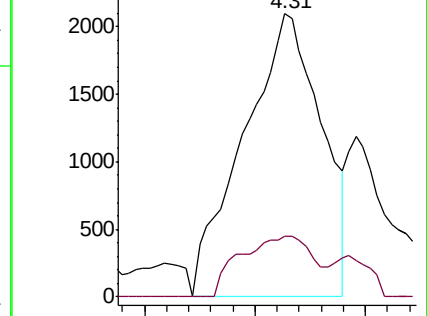
43 100

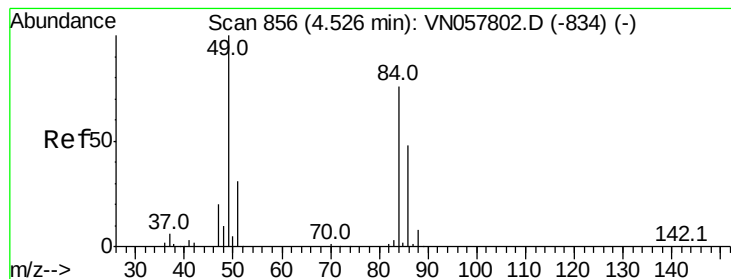
74 19.5 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methvlene Chloride

Concen: 1.598 ug/l

RT: 4.53 min Scan# 857

Delta R.T. 0.00 min

Lab File: VN058085.D

Acq: 15 Sep 2019 12:48

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 11496

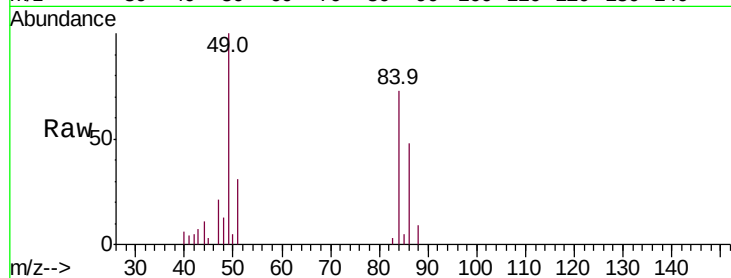
Ion Ratio Lower Upper

84 100

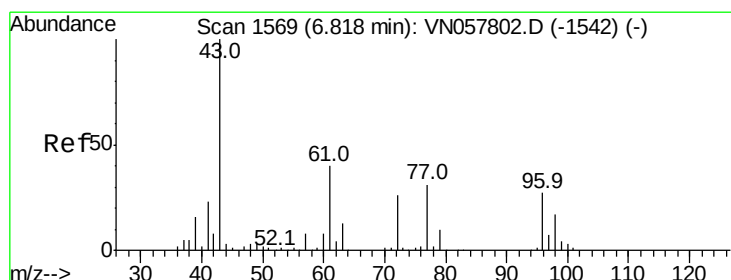
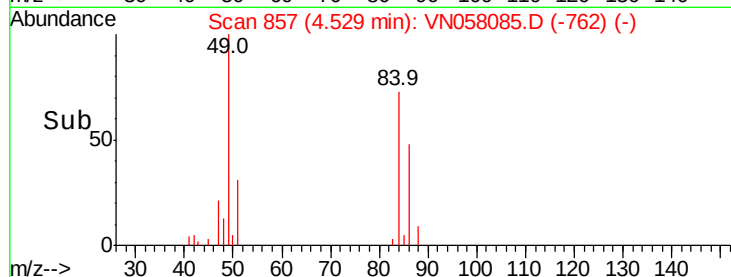
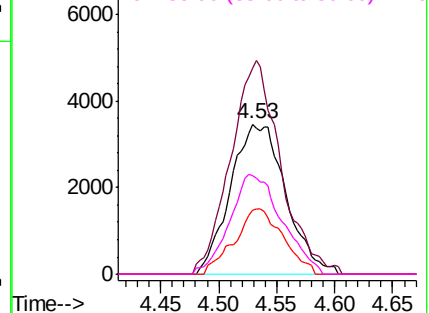
49 137.3 104.8 157.2

51 42.8 33.0 49.4

86 65.7 50.5 75.7



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



#25

2-Butanone

Concen: 1.270 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.02 min

Lab File: VN058085.D

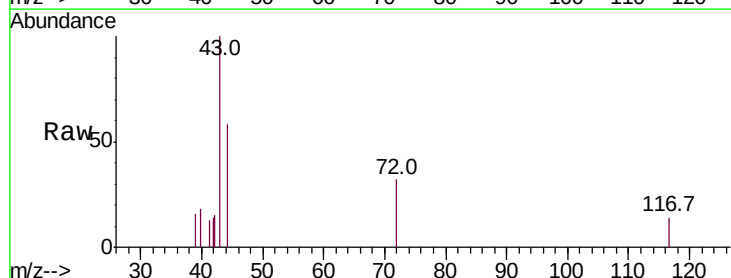
Acq: 15 Sep 2019 12:48

Tgt Ion: 43 Resp: 3981

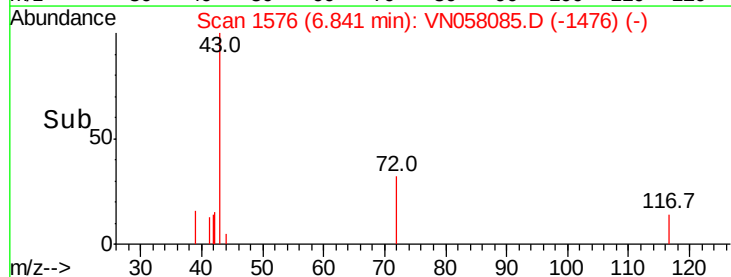
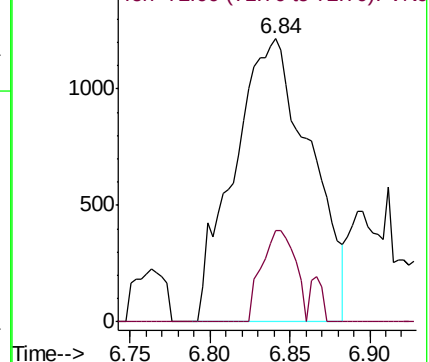
Ion Ratio Lower Upper

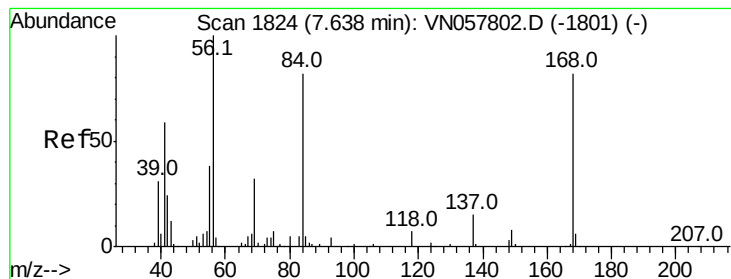
43 100

72 32.2 20.6 30.8#



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





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058085.D

Acq: 15 Sep 2019 12:48

Instrument :
MSVOA_N
ClientSampled :

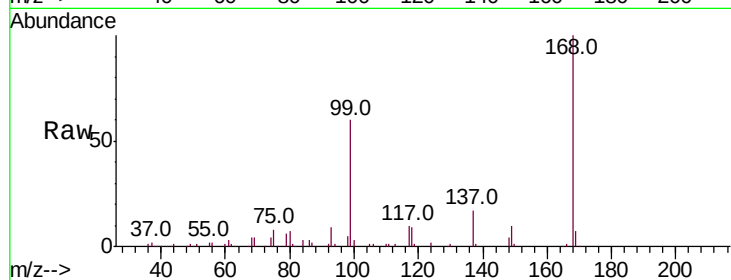
Tot Ion: 56 Resp: 8234

Ion Ratio Lower Upper

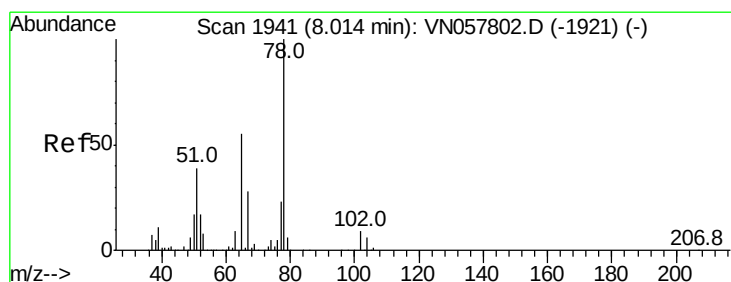
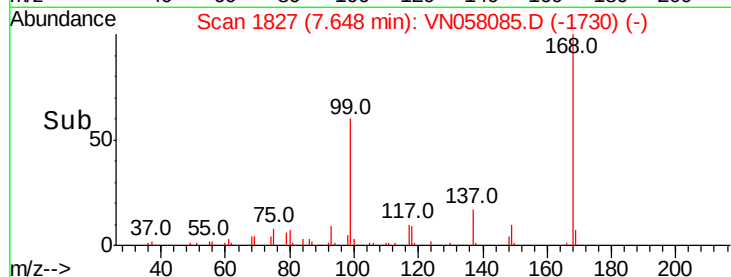
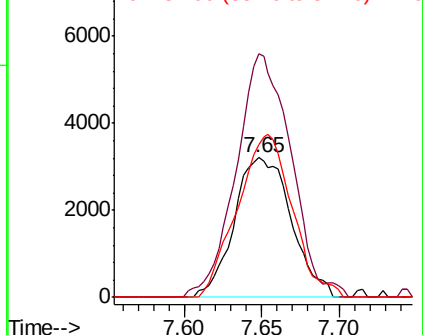
56 100

69 169.6 25.9 38.9#

84 109.7 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 56.263 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058085.D

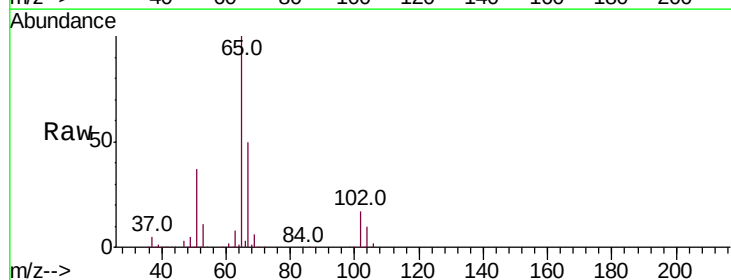
Acq: 15 Sep 2019 12:48

Tgt Ion: 65 Resp: 371584

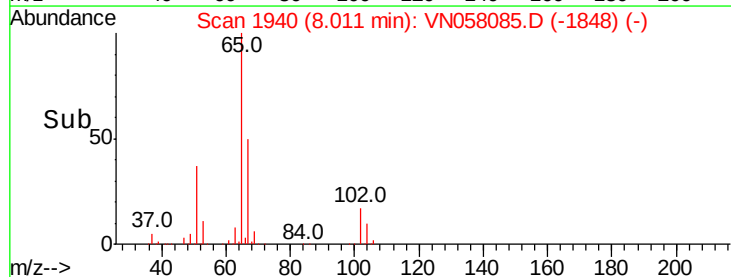
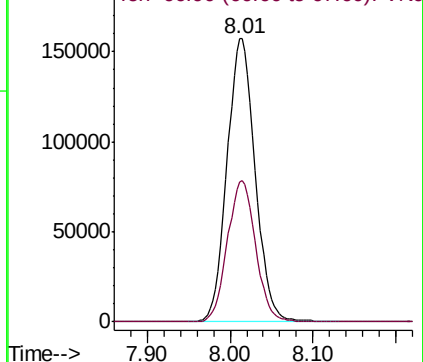
Ion Ratio Lower Upper

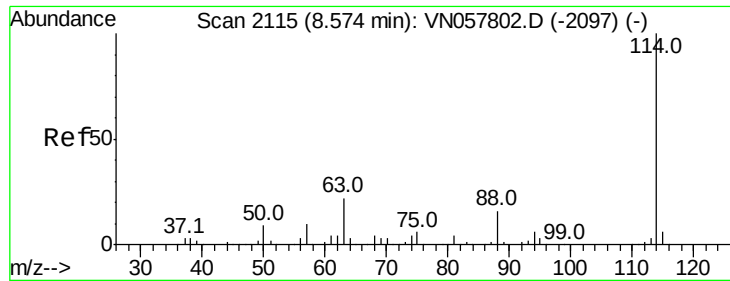
65 100

67 50.2 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

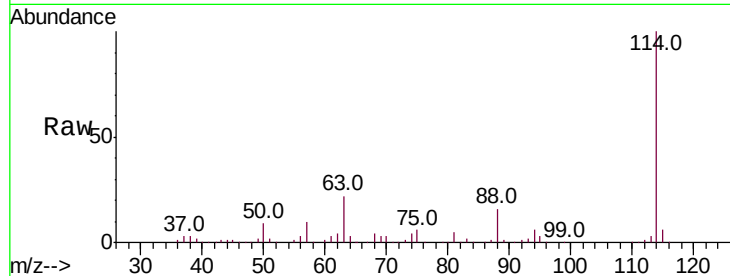




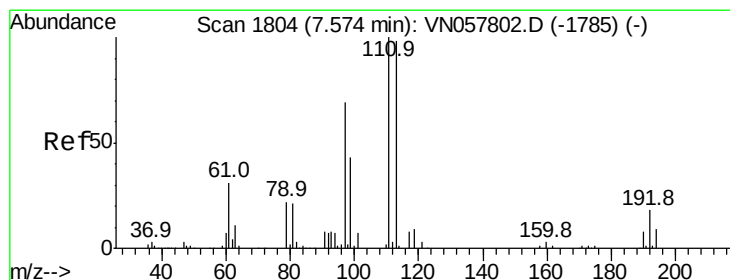
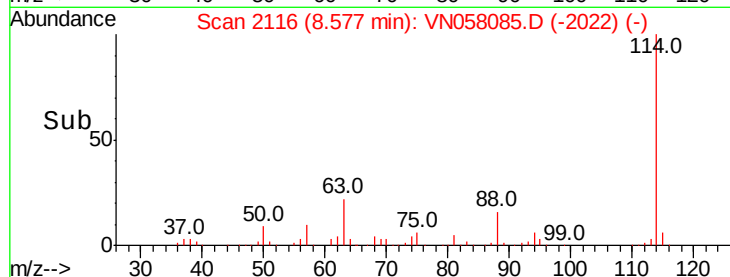
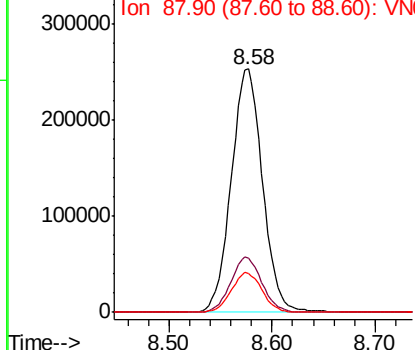
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058085.D
 Acq: 15 Sep 2019 12:48

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.2	0.0	31.4

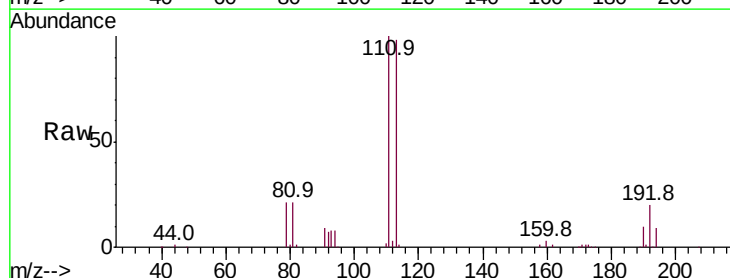


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

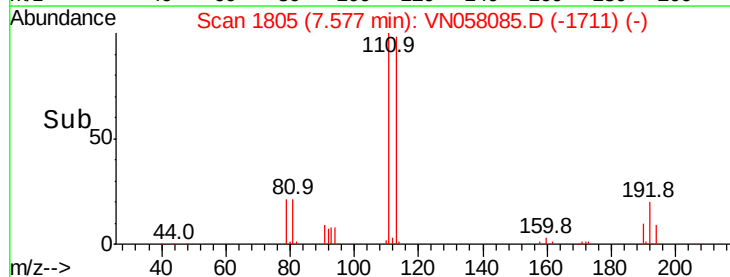
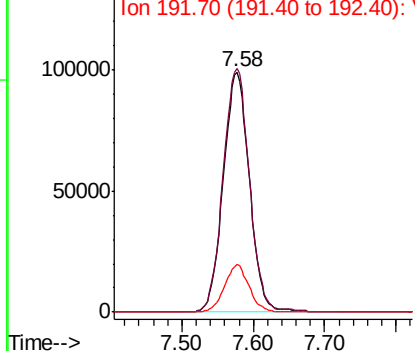


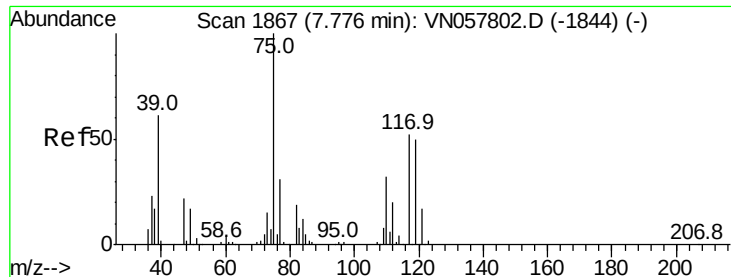
#35
 Dibromofluoromethane
 Concen: 51.221 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058085.D
 Acq: 15 Sep 2019 12:48

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.3	121.9
192	18.6	14.6	22.0



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

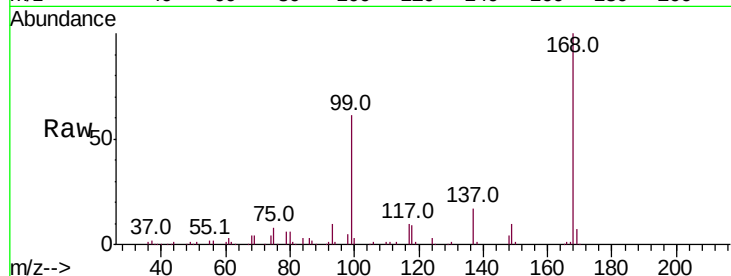




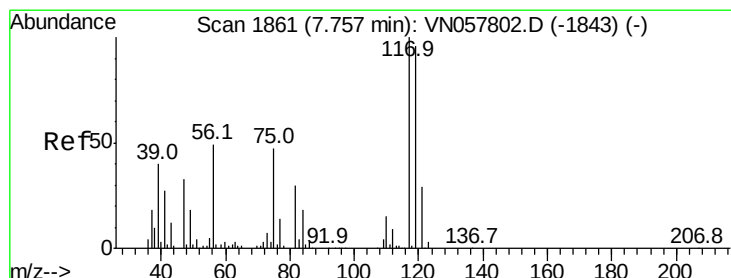
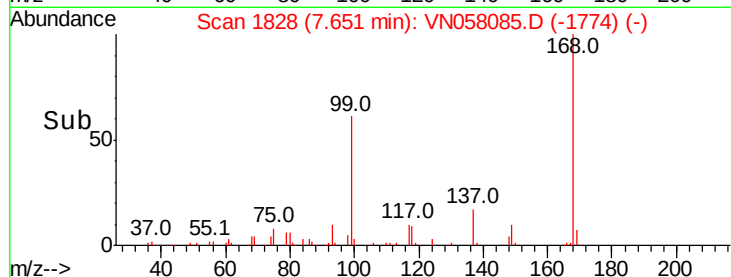
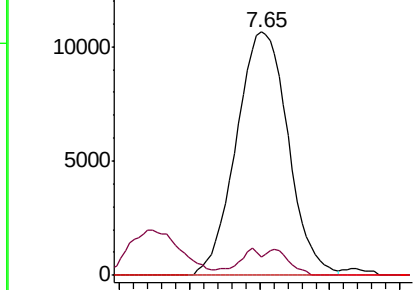
#36
 1,1-Dichloropropene
 Concen: 4.408 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058085.D
 Acq: 15 Sep 2019 12:48

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	4.7	16.3	48.9#
77	0.0	25.0	37.4#

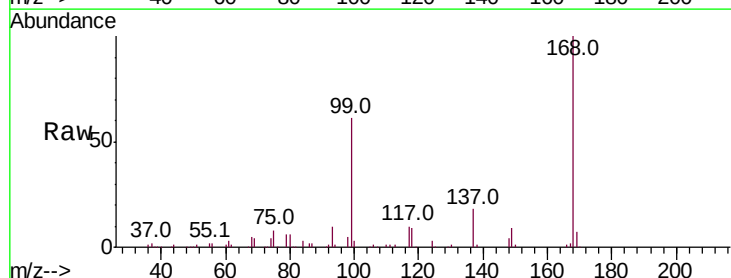


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-1844) (-)
 Ion 109.90 (109.60 to 110.60): VN057802.D (-1844) (-)
 Ion 76.90 (76.60 to 77.60): VN057802.D (-1844) (-)

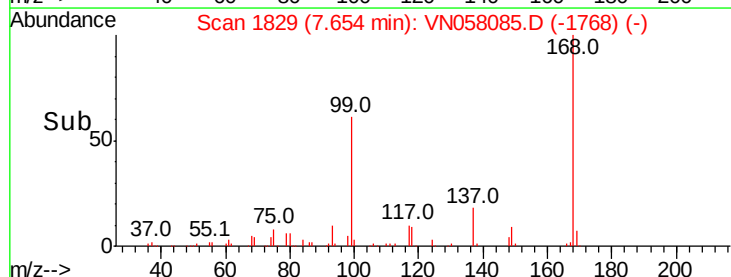
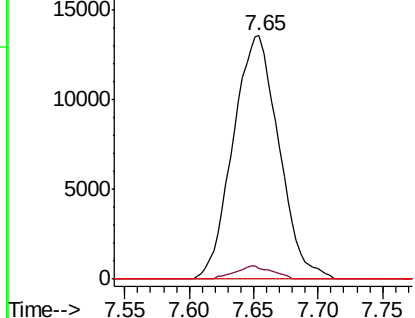


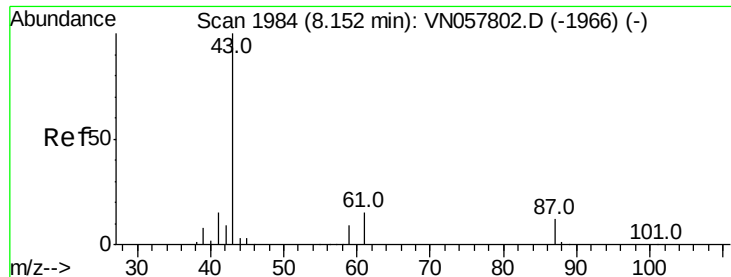
#38
 Carbon Tetrachloride
 Concen: 5.942 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN058085.D
 Acq: 15 Sep 2019 12:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	76.9	115.3#
121	0.0	23.4	35.2#



Abundance Ion 116.80 (116.50 to 117.50): VN057802.D (-1843) (-)
 Ion 118.80 (118.50 to 119.50): VN057802.D (-1843) (-)
 Ion 120.80 (120.50 to 121.50): VN057802.D (-1843) (-)





#43

Isopropyl Acetate

Concen: 10.624 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058085.D

Acq: 15 Sep 2019 12:48

Instrument :

MSVOA_N

ClientSampled :

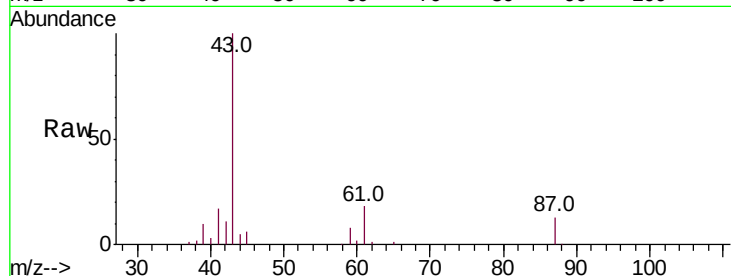
Tot Ion: 43 Resp: 114330

Ion Ratio Lower Upper

43 100

61 15.9 20.1 30.1#

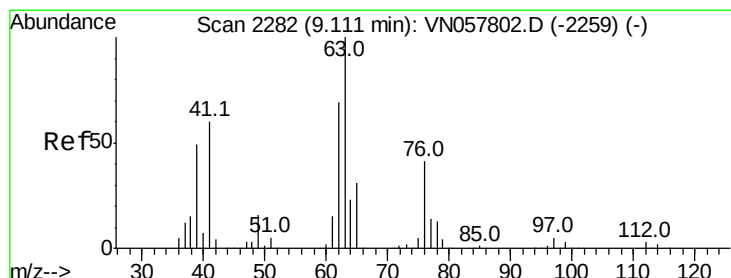
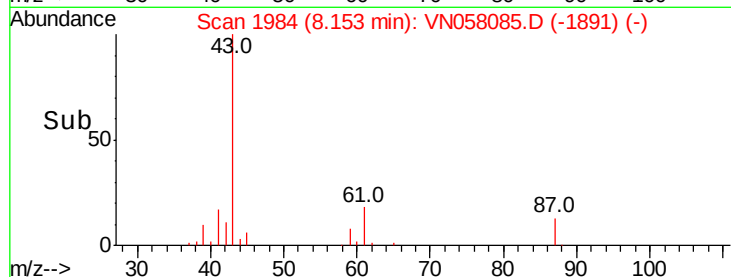
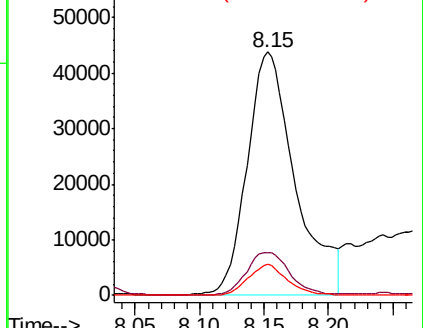
87 10.2 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

Ion 87.00 (86.70 to 87.70): VNC



#45

1,2-Dichloropropane

Concen: 0.256 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN058085.D

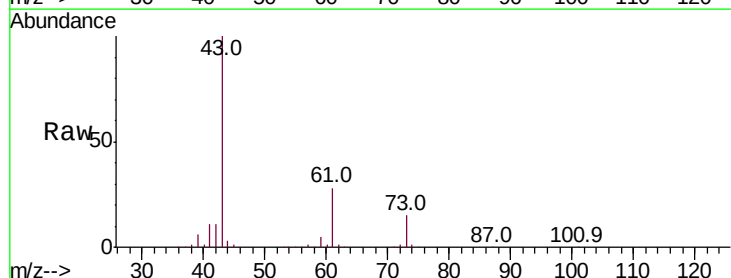
Acq: 15 Sep 2019 12:48

Tgt Ion: 63 Resp: 1390

Ion Ratio Lower Upper

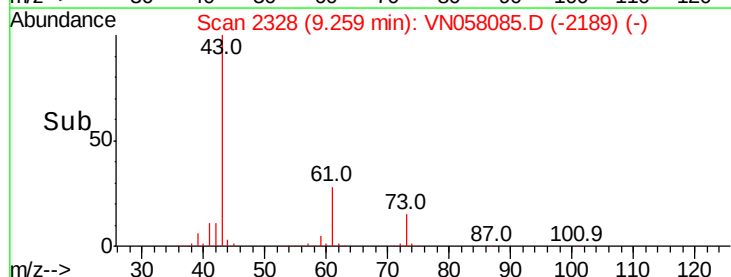
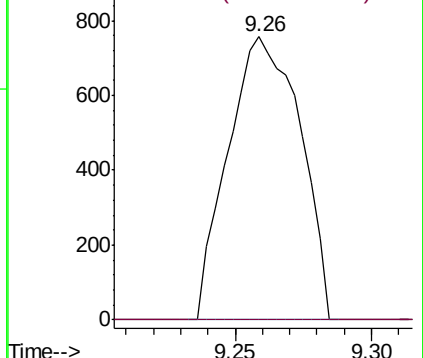
63 100

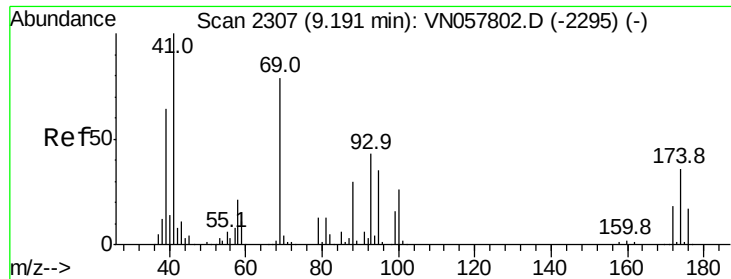
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC

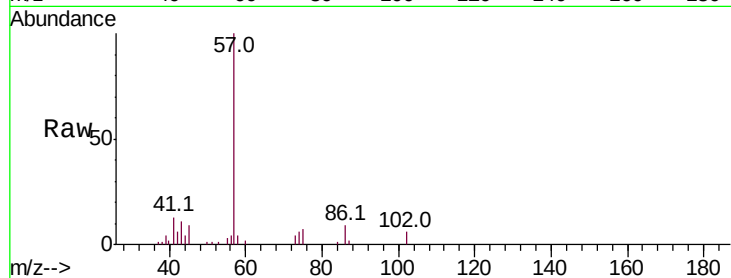




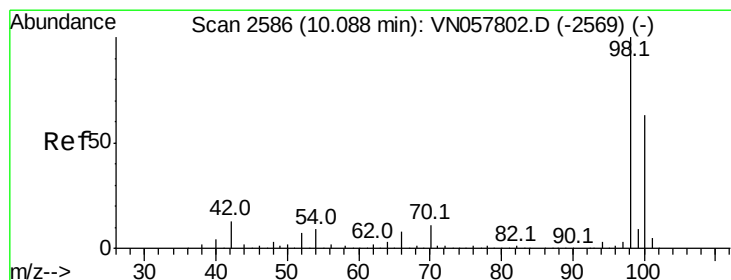
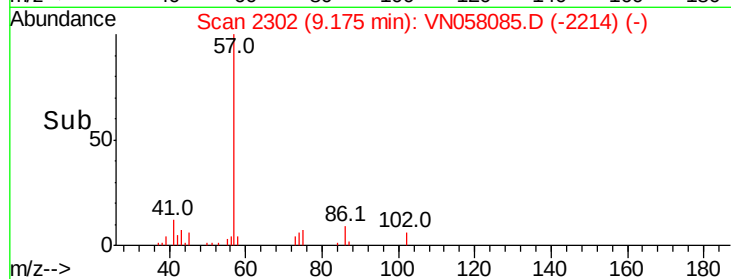
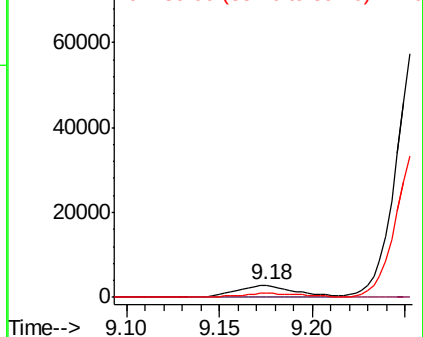
#48
Methvl methacrylate
Concen: 1.141 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN058085.D
Acq: 15 Sep 2019 12:48

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 6231
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#

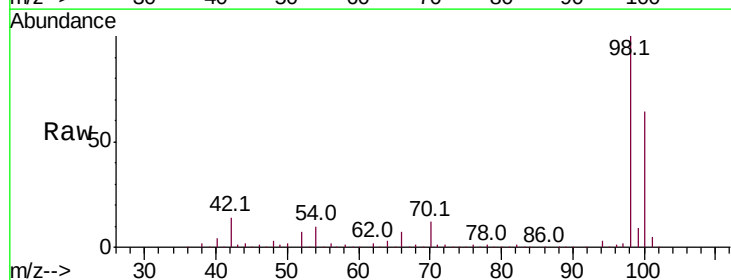


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

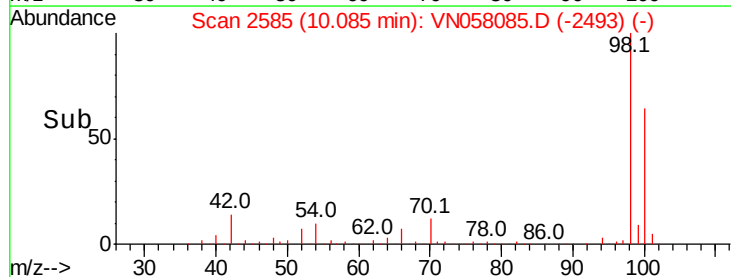
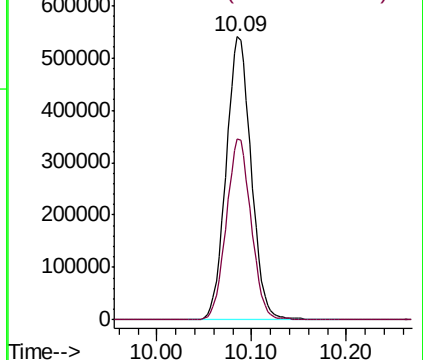


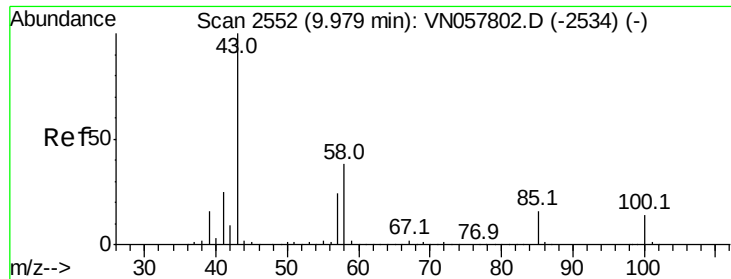
#50
Toluene-d8
Concen: 51.871 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058085.D
Acq: 15 Sep 2019 12:48

Tgt Ion: 98 Resp: 992669
Ion Ratio Lower Upper
98 100
100 63.5 50.3 75.5



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: 1.434 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058085.D

Acq: 15 Sep 2019 12:48

Instrument :

MSVOA_N

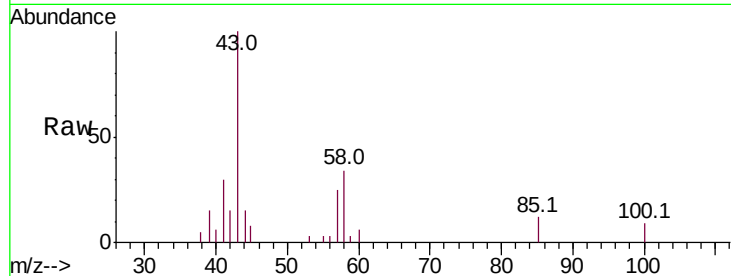
ClientSampled :

Tot Ion: 43 Resp: 9134

Ion Ratio Lower Upper

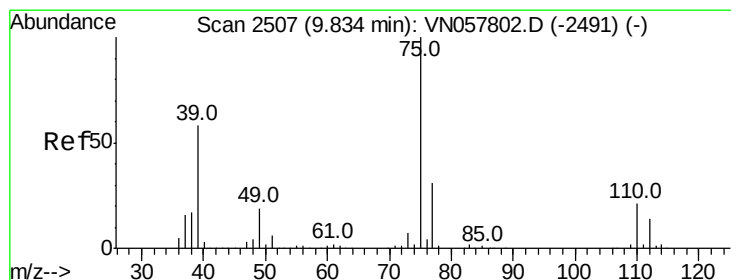
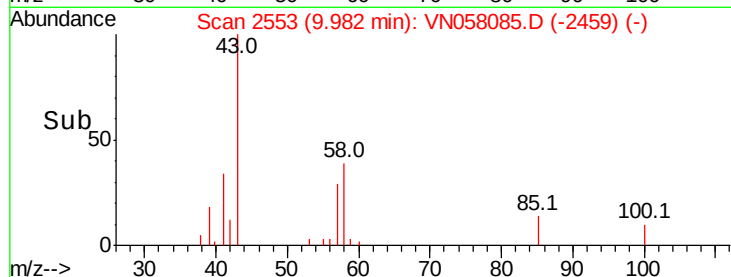
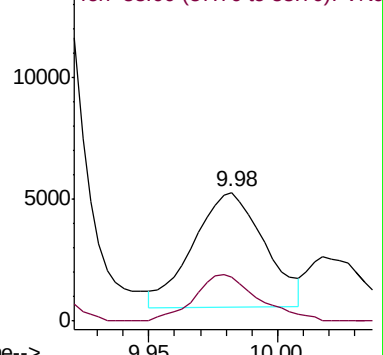
43 100

58 36.4 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.204 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN058085.D

Acq: 15 Sep 2019 12:48

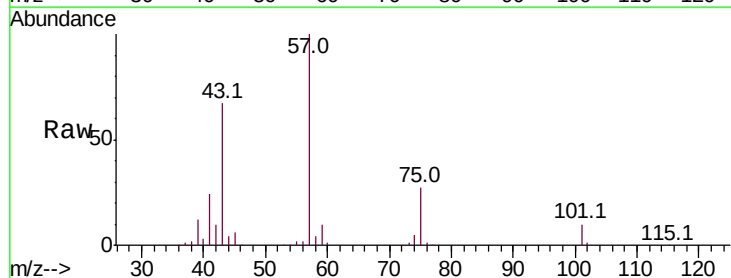
Tgt Ion: 75 Resp: 47226

Ion Ratio Lower Upper

75 100

77 0.8 24.8 37.2#

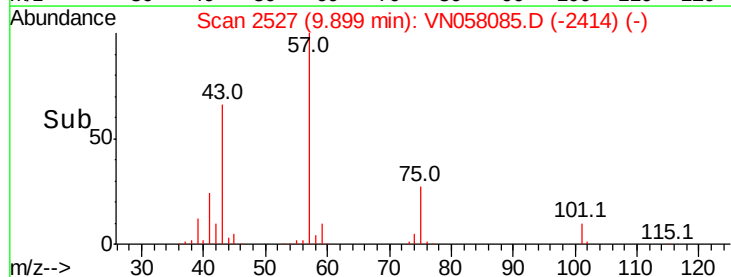
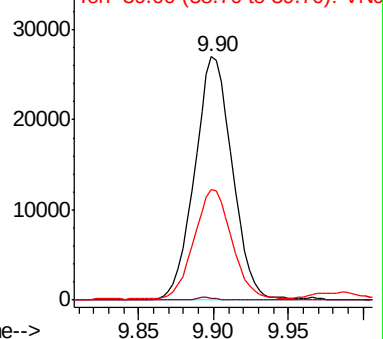
39 44.9 46.2 69.4#

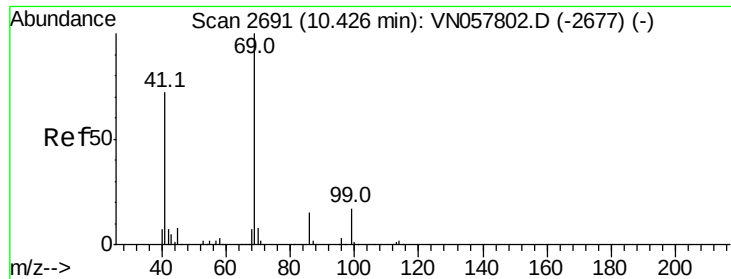


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-2491) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-2491) (-)

Ion 39.00 (38.70 to 39.70): VN057802.D (-2491) (-)





#56

Ethyl methacrylate

Concen: 0.258 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN058085.D

Acq: 15 Sep 2019 12:48

Instrument :

MSVOA_N

ClientSampled :

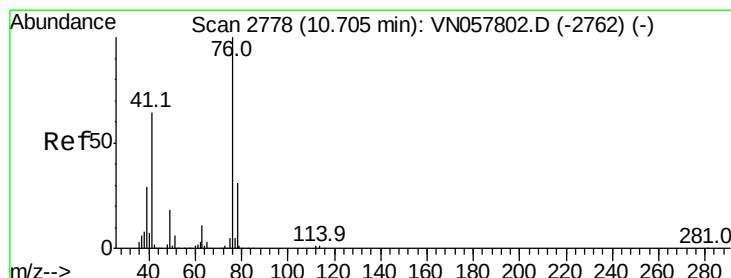
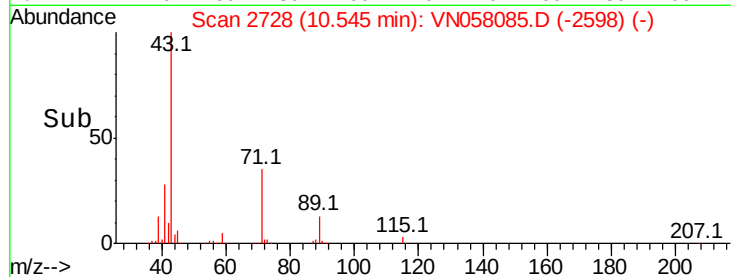
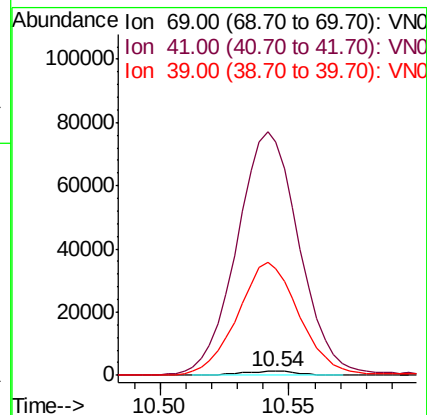
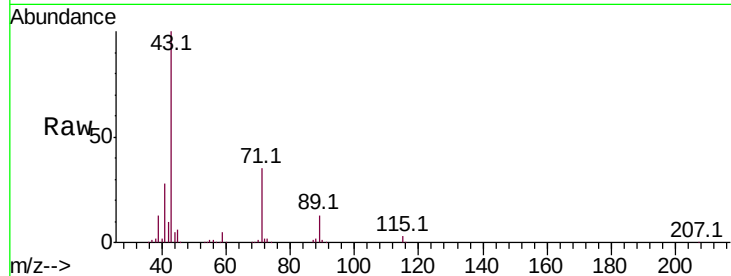
Tot Ion: 69 Resp: 1935

Ion Ratio Lower Upper

69 100

41 6768.6 56.7 85.1#

39 3113.7 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.718 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058085.D

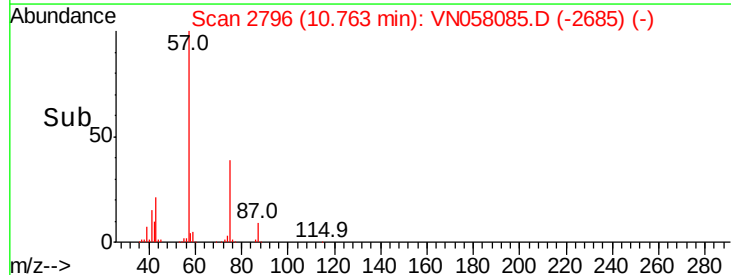
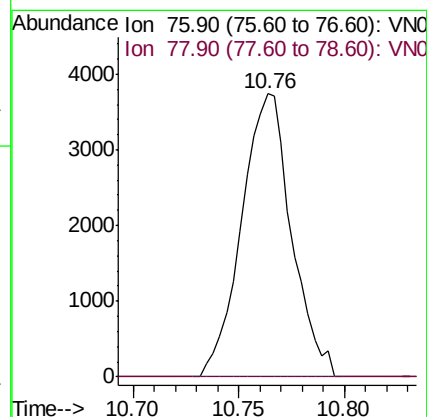
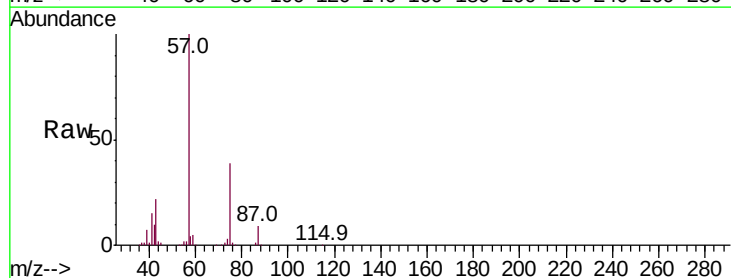
Acq: 15 Sep 2019 12:48

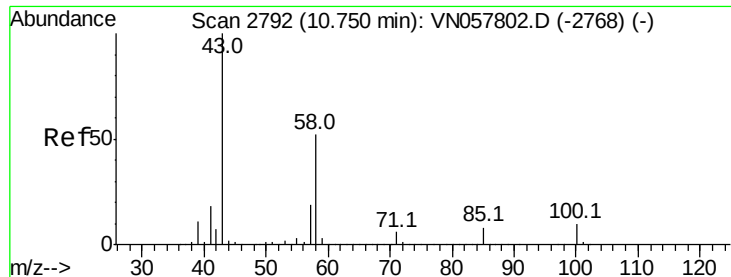
Tgt Ion: 76 Resp: 6157

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#





#59

2-Hexanone

Concen: 20.178 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058085.D

Acq: 15 Sep 2019 12:48

Instrument :

MSVOA_N

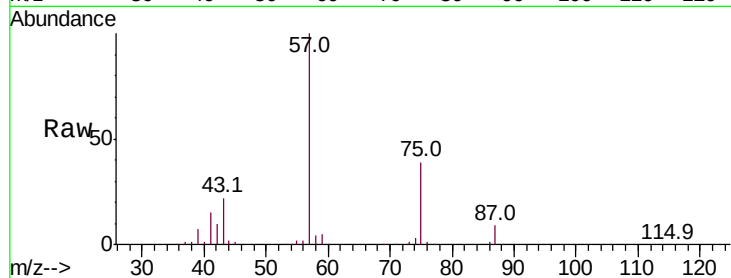
ClientSampled :

Tot Ion: 43 Resp: 96310

Ion Ratio Lower Upper

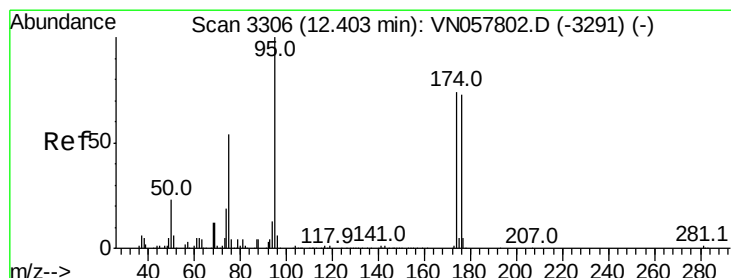
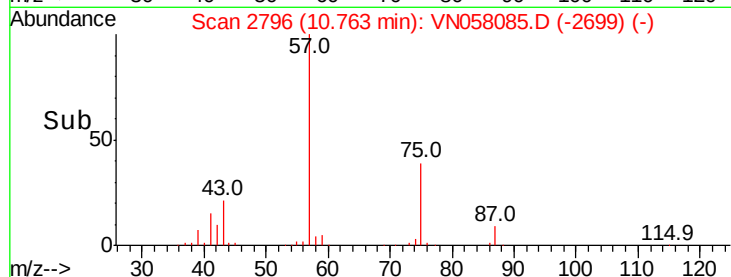
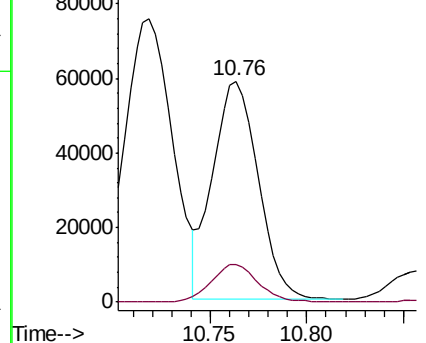
43 100

58 17.8 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 46.017 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058085.D

Acq: 15 Sep 2019 12:48

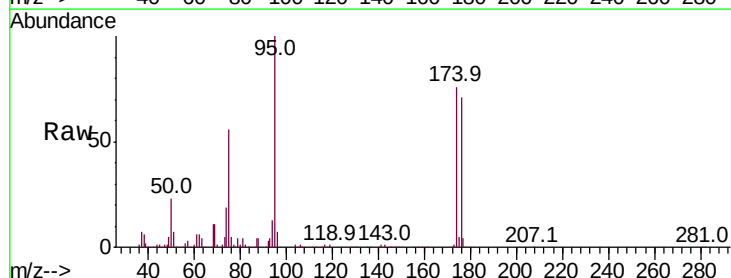
Tgt Ion: 95 Resp: 335598

Ion Ratio Lower Upper

95 100

174 75.8 0.0 150.2

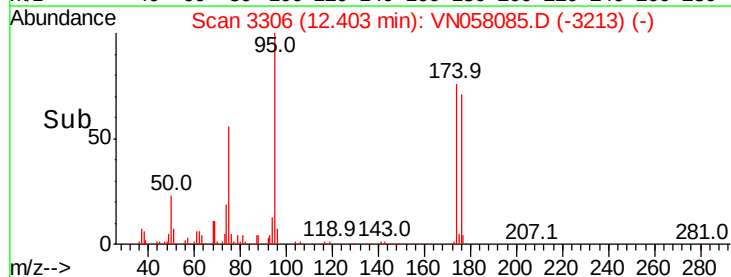
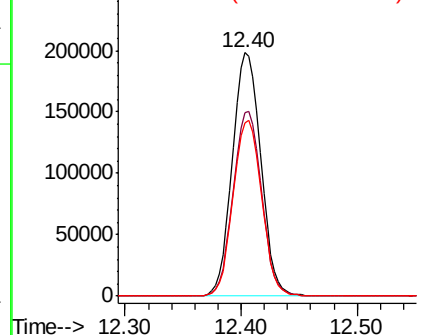
176 72.3 0.0 146.0

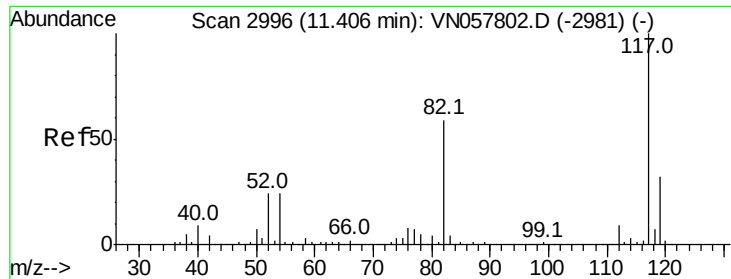


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

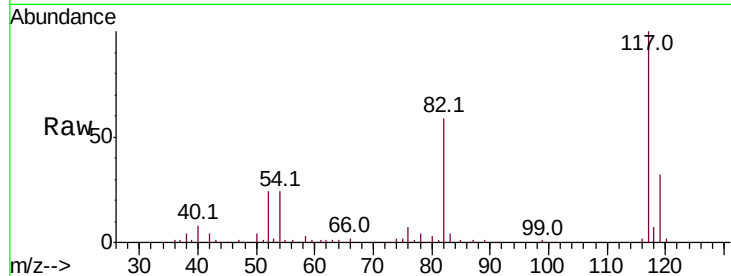




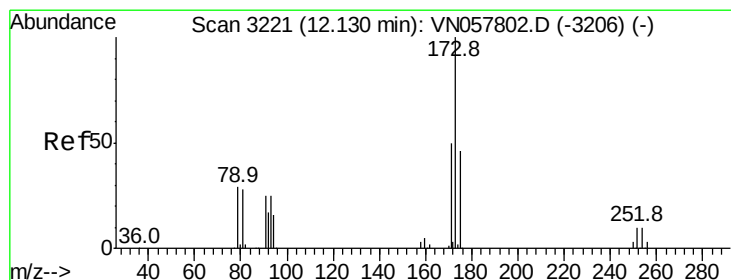
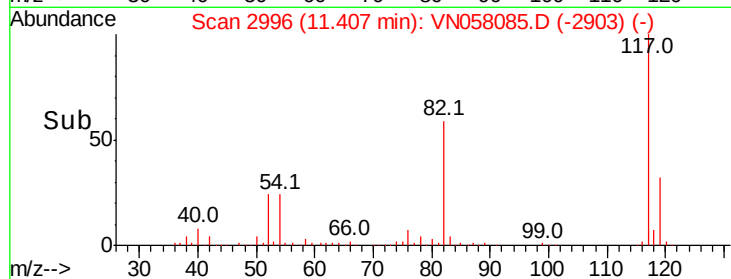
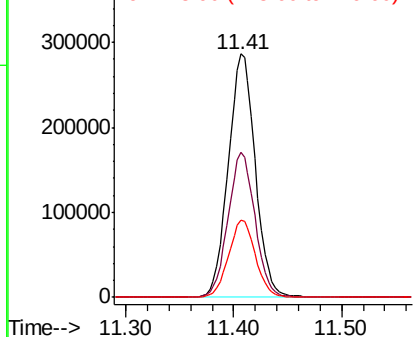
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058085.D
Acq: 15 Sep 2019 12:48

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 500313
Ion Ratio Lower Upper
117 100
82 59.4 47.2 70.8
119 31.8 25.3 37.9

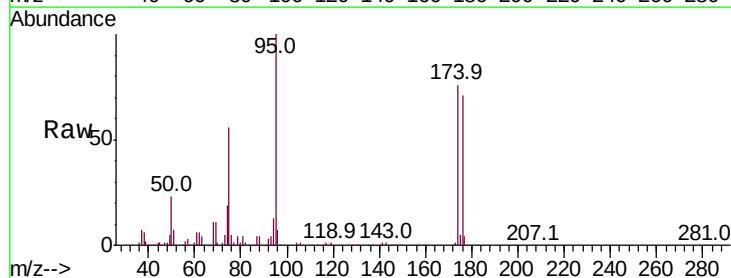


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

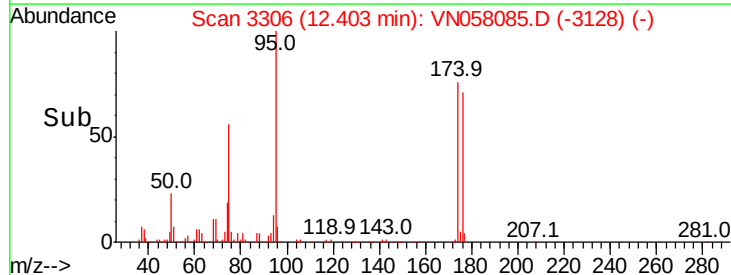
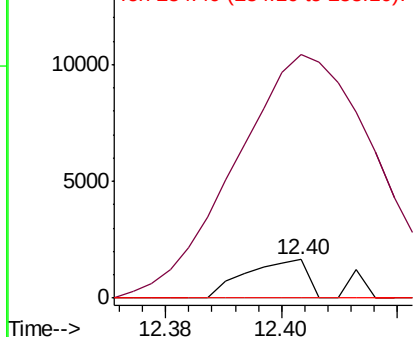


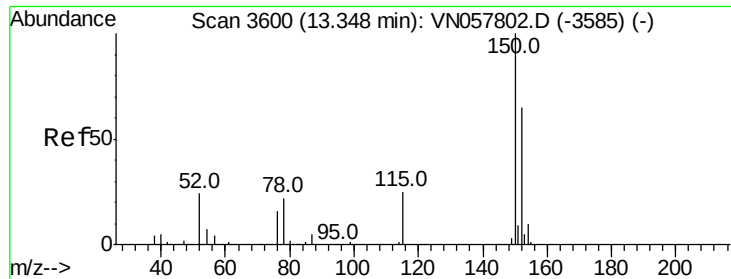
#71
Bromoform
Concen: 0.424 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN058085.D
Acq: 15 Sep 2019 12:48

Tgt Ion:173 Resp: 1201
Ion Ratio Lower Upper
173 100
175 1301.5 23.5 70.6#
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058085.D

Acq: 15 Sep 2019 12:48

Instrument :

MSVOA_N

ClientSampleId :

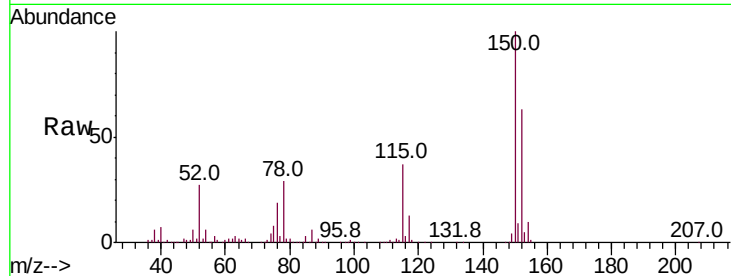
Tot Ion:152 Resp: 262495

Ion Ratio Lower Upper

152 100

115 60.2 30.3 91.0

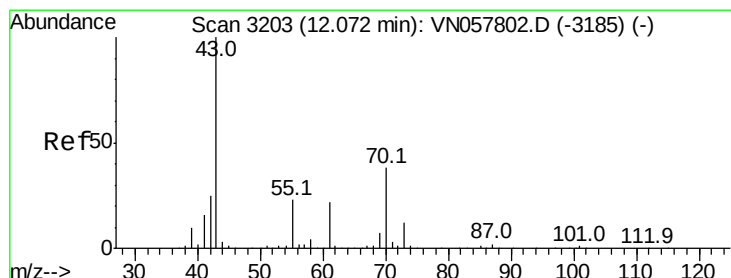
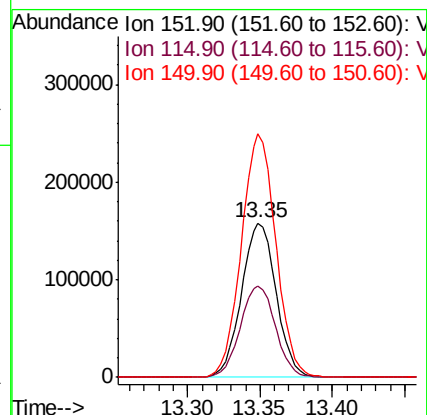
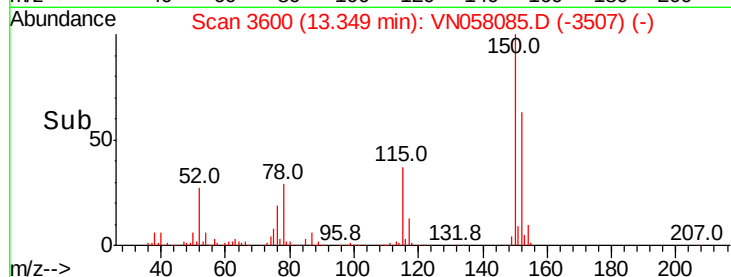
150 156.6 0.0 352.4



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: 0.638 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058085.D

Acq: 15 Sep 2019 12:48

Tgt Ion: 43 Resp: 5660

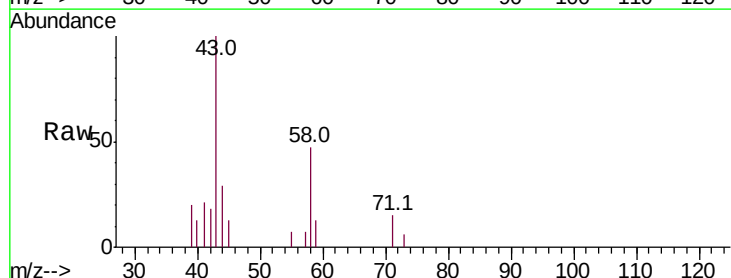
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 5.3 18.6 27.8#

61 0.0 17.4 26.2#

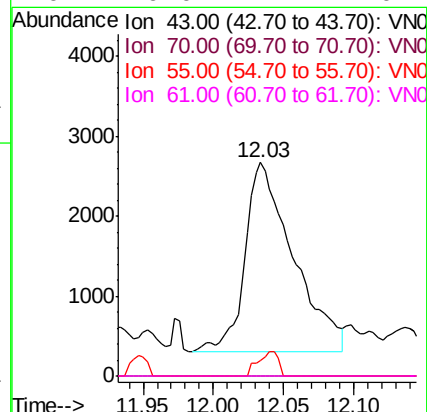
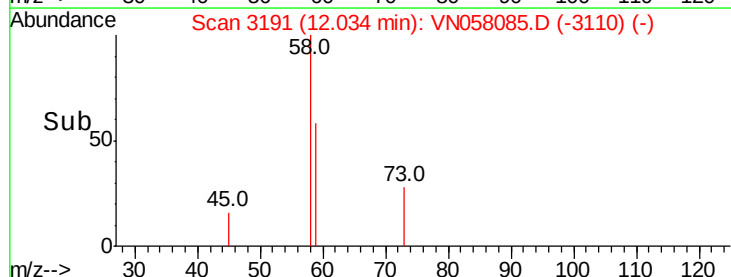


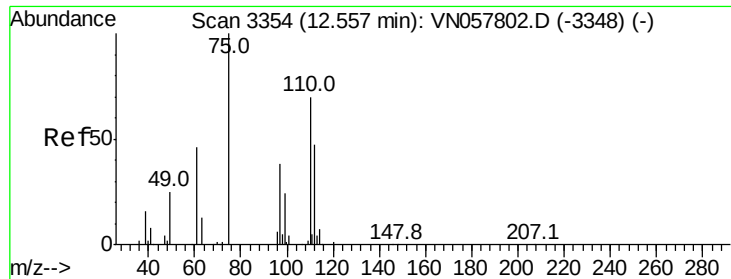
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

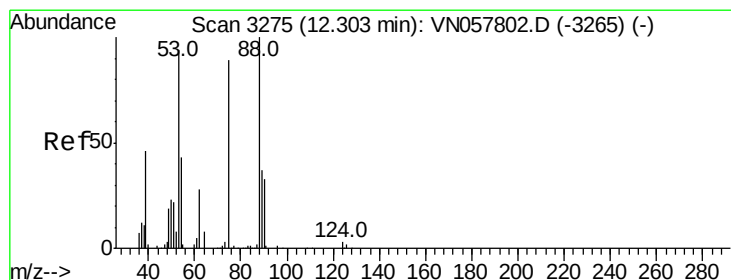
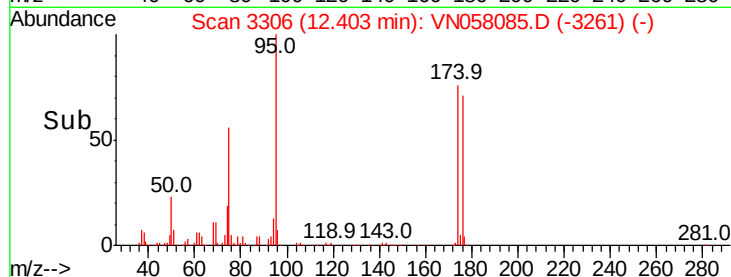
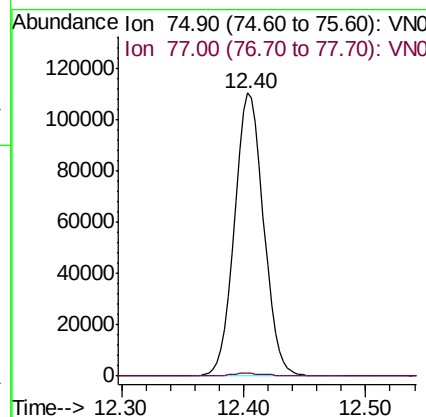
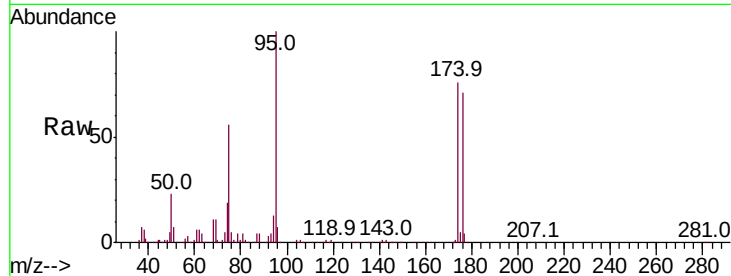




#76
 1,2,3-Trichloropropane
 Concen: 30.938 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN058085.D
 Acq: 15 Sep 2019 12:48

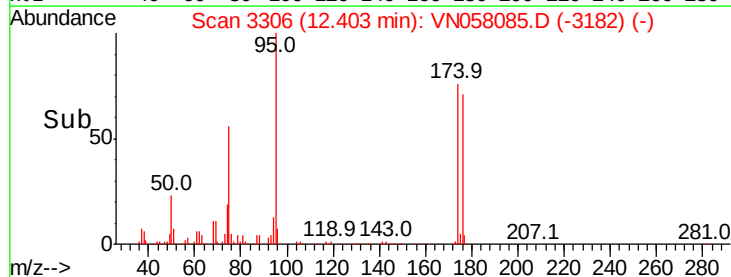
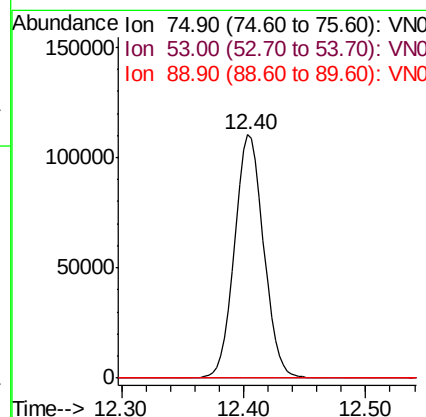
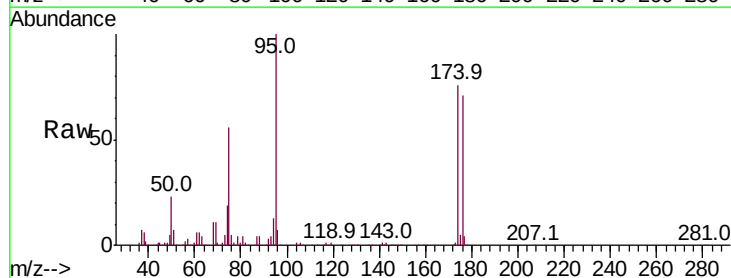
Instrument :
 MSVOA_N
 ClientSampleId :

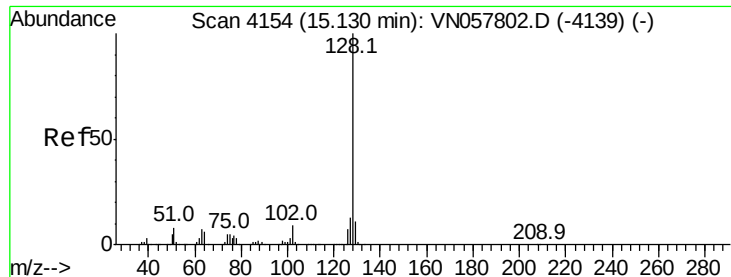
Tot Ion: 75 Resp: 183714
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 108.872 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN058085.D
 Acq: 15 Sep 2019 12:48

Tgt Ion: 75 Resp: 183714
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN058085.D

Acq: 15 Sep 2019 12:48

Instrument :

MSVOA_N

ClientSampled :

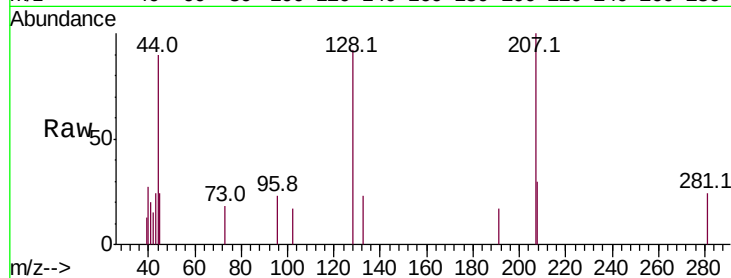
Tot Ion:128 Resp: 1943

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

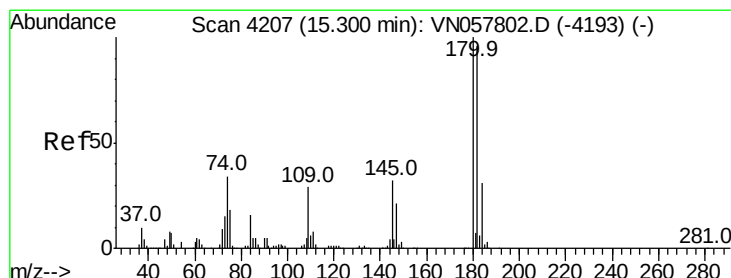
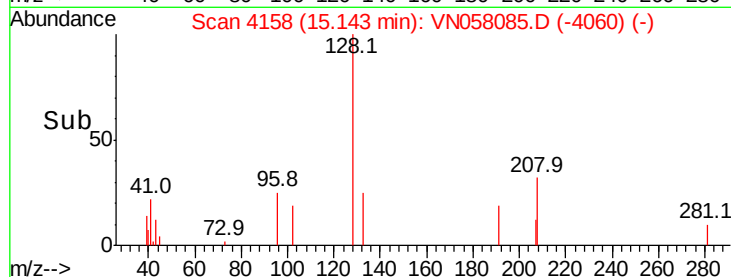
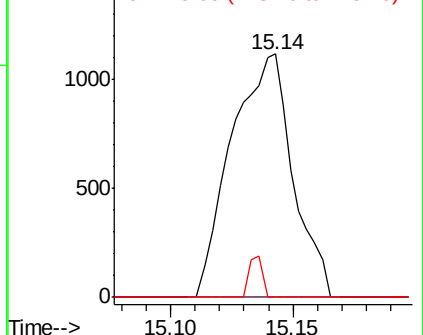
129 3.6 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.030 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058085.D

Acq: 15 Sep 2019 12:48

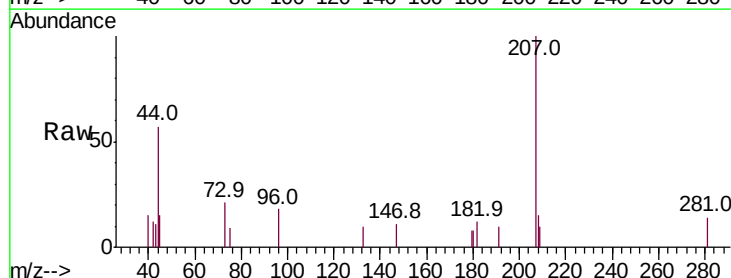
Tgt Ion:180 Resp: 174

Ion Ratio Lower Upper

180 100

182 145.4 48.3 144.8#

145 0.0 16.3 48.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

