

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057838.D
 Acq On : 10 Sep 2019 6:08
 Operator : JC/SP
 Sample : K4622-23
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 07:16:20 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	313619	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	529423	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	489526	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	249818	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	339681	53.48	ug/l	0.00
Spiked Amount			Recovery	=	106.96%	
35) Dibromofluoromethane	7.58	113	234400	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
50) Toluene-d8	10.09	98	962932	50.76	ug/l	0.00
Spiked Amount			Recovery	=	101.52%	
62) 4-Bromofluorobenzene	12.40	95	314725	43.53	ug/l	0.00
Spiked Amount			Recovery	=	87.06%	

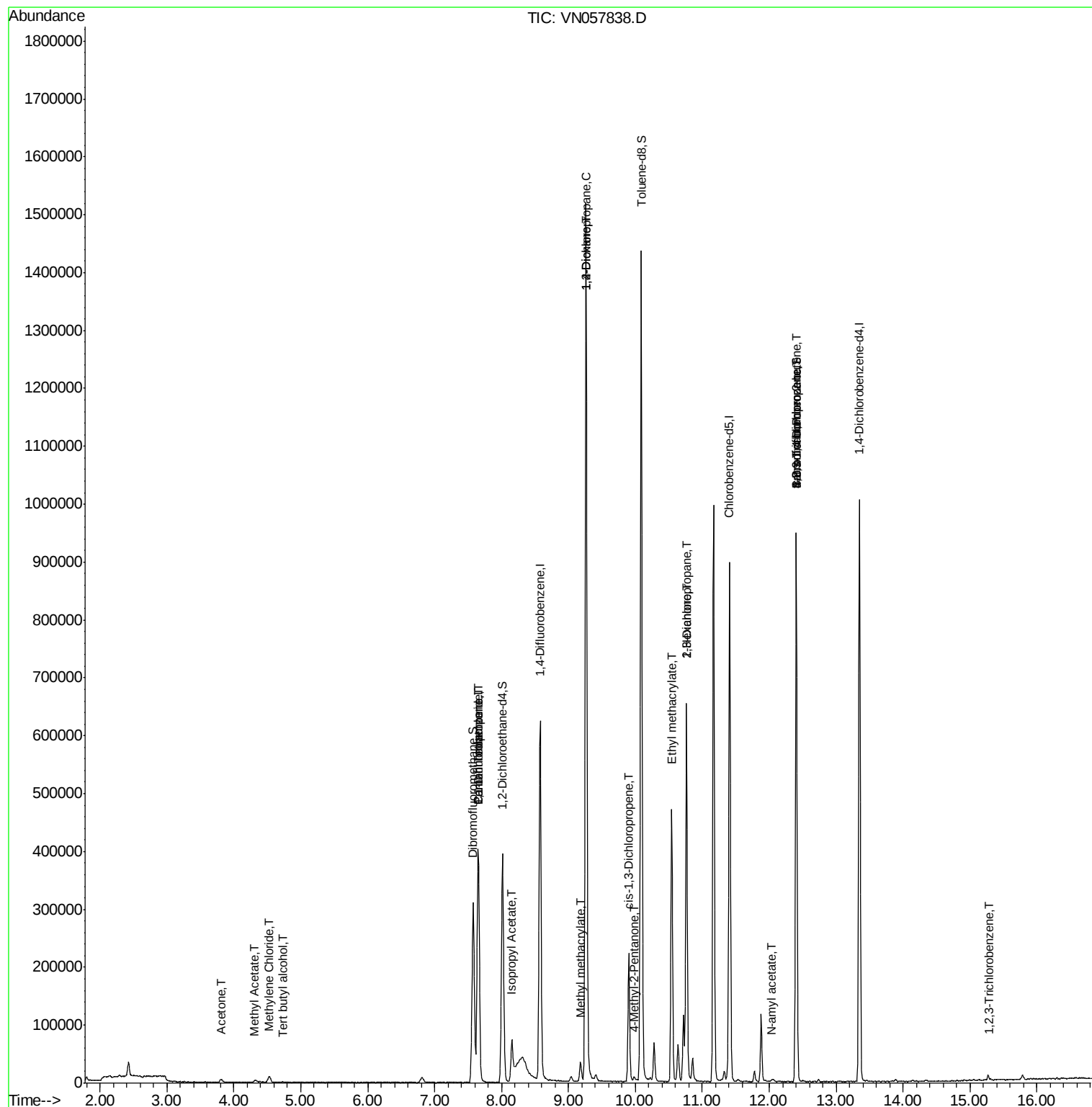
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	264	Below Cal		98
11) Tert butyl alcohol	4.73	59	481	0.626	ug/l #	72
16) Acetone	3.80	43	9596	4.608	ug/l	93
18) Methyl Acetate	4.31	43	3459	0.623	ug/l	98
20) Methylene Chloride	4.53	84	6890	0.520	ug/l #	83
31) Cyclohexane	7.64	56	7960	Below Cal	#	25
36) 1,1-Dichloropropene	7.65	75	27142	4.421	ug/l #	51
38) Carbon Tetrachloride	7.65	117	31922	5.695	ug/l #	16
43) Isopropyl Acetate	8.15	43	101169	9.483	ug/l #	85
45) 1,2-Dichloropropane	9.26	63	1929	0.359	ug/l #	44
48) Methyl methacrylate	9.18	41	4975	0.919	ug/l #	13
49) 1,4-Dioxane	9.25	88	97	1.060	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	6044	0.957	ug/l	95
54) cis-1,3-Dichloropropene	9.90	75	38142	5.054	ug/l #	64
56) Ethyl methacrylate	10.54	69	1591	0.214	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5951	0.700	ug/l #	43
59) 2-Hexanone	10.76	43	101167	21.380	ug/l #	53
71) Bromoform	12.40	173	1430	0.516	ug/l #	1
74) N-amyl acetate	12.03	43	2450	0.290	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	174588	30.893	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	174588	108.714	ug/l #	6
95) Naphthalene	15.14	128	1748	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.30	180	114	1.020	ug/l #	1

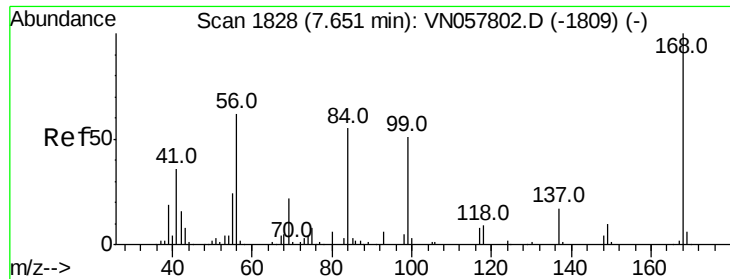
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091019\
Data File : VN057838.D
Acq On : 10 Sep 2019 6:08
Operator : JC/SP
Sample : K4622-23
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Sep 10 07:16:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057838.D

Acq: 10 Sep 2019 6:08

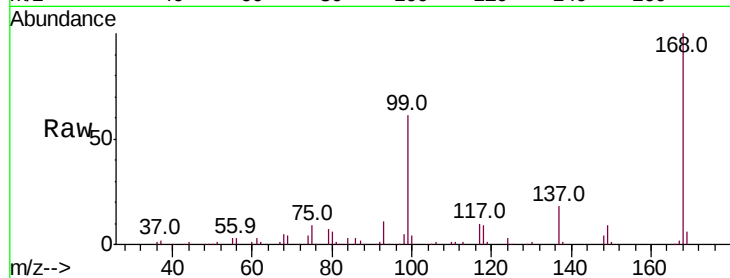
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 313619

Ion Ratio Lower Upper

168 100

99 60.6 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

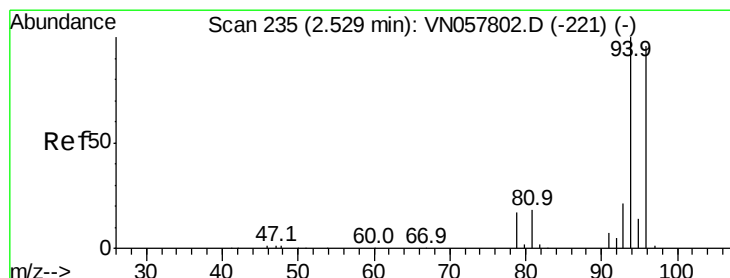
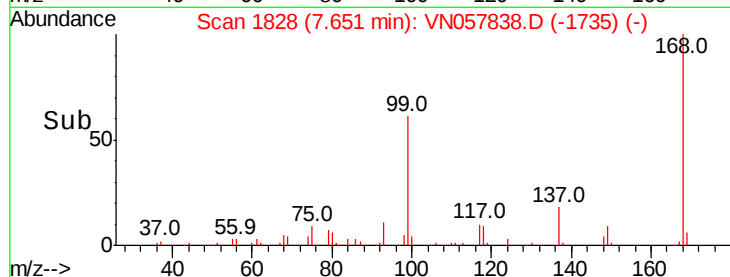
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 240

Delta R.T. 0.02 min

Lab File: VN057838.D

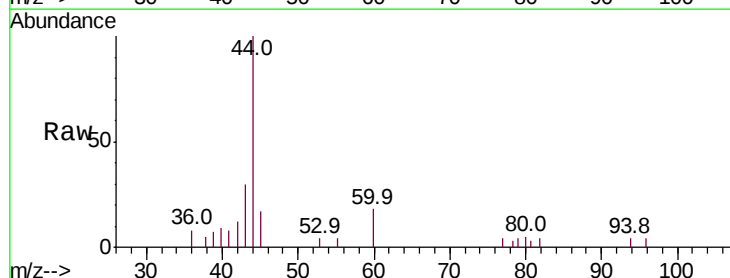
Acq: 10 Sep 2019 6:08

Tgt Ion: 94 Resp: 264

Ion Ratio Lower Upper

94 100

96 97.7 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

400

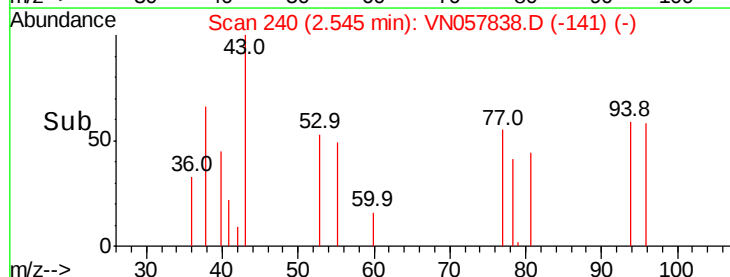
300

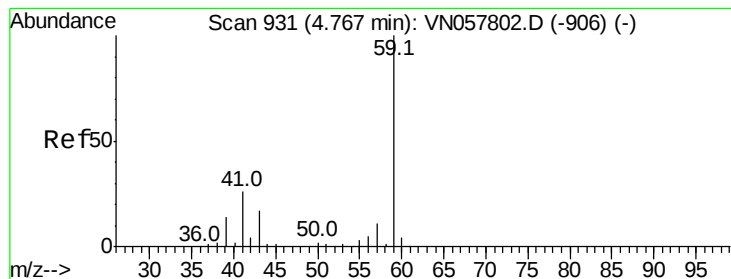
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: 0.626 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.03 min

Lab File: VN057838.D

Acq: 10 Sep 2019 6:08

Instrument :

MSVOA_N

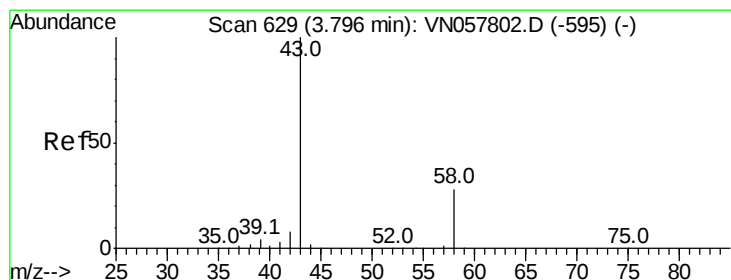
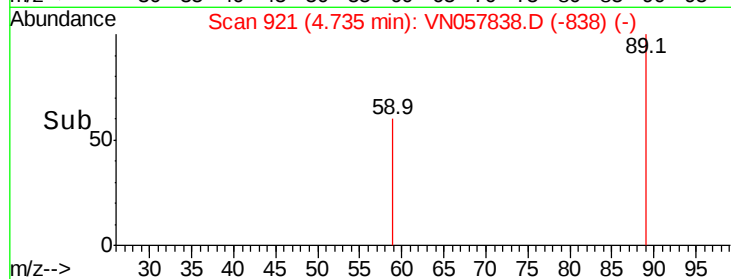
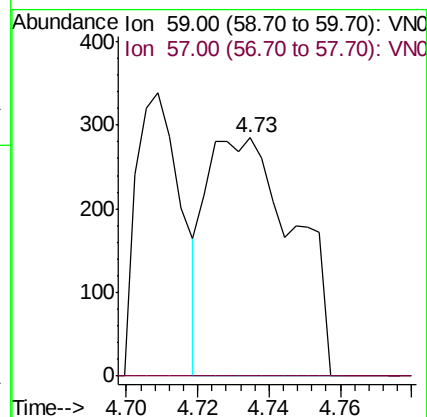
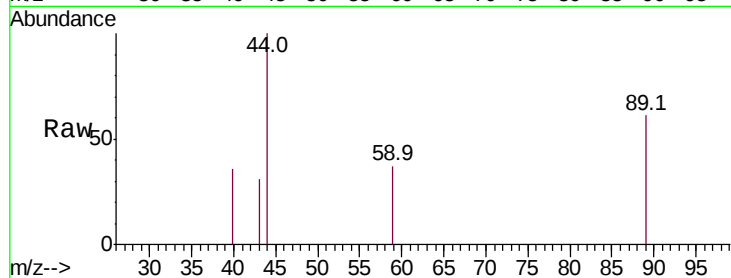
ClientSampleId :

Tot Ion: 59 Resp: 481

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#16

Acetone

Concen: 4.608 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057838.D

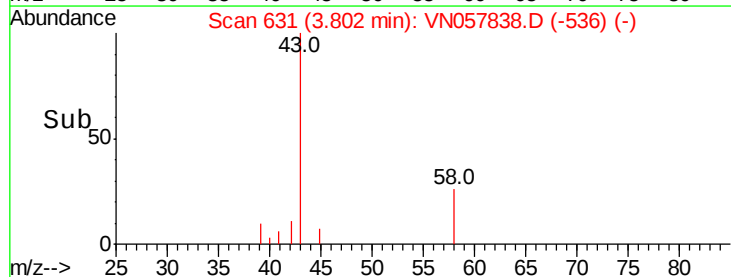
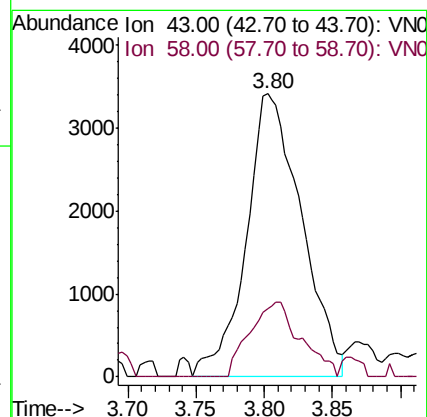
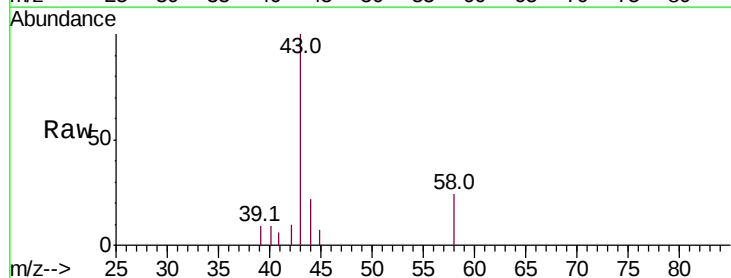
Acq: 10 Sep 2019 6:08

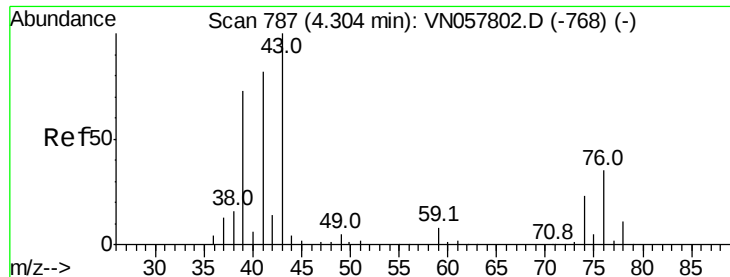
Tgt Ion: 43 Resp: 9596

Ion Ratio Lower Upper

43 100

58 24.2 22.2 33.2

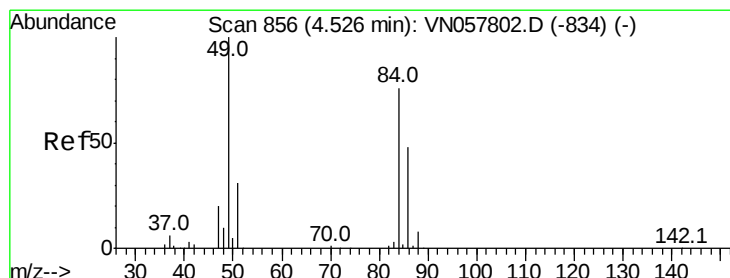
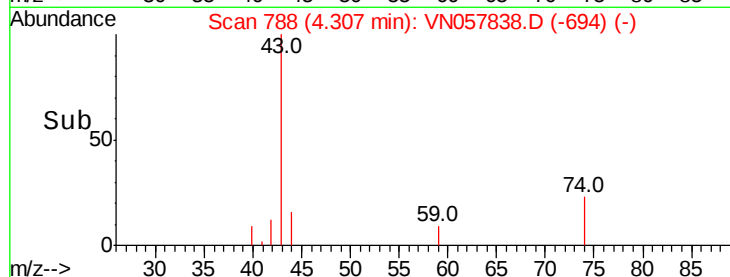
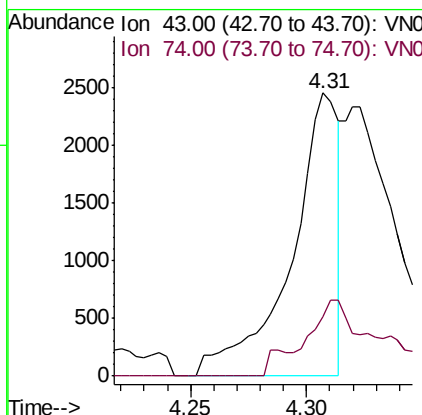
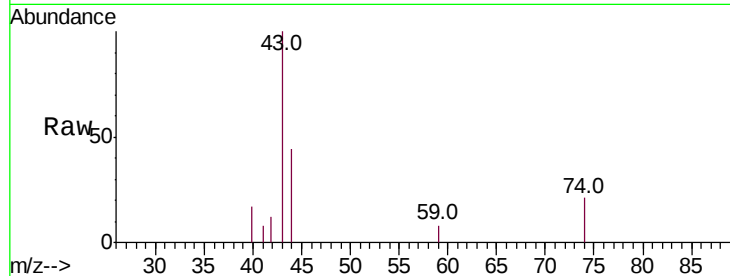




#18
Methyl Acetate
Concen: 0.623 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN057838.D
Acq: 10 Sep 2019 6:08

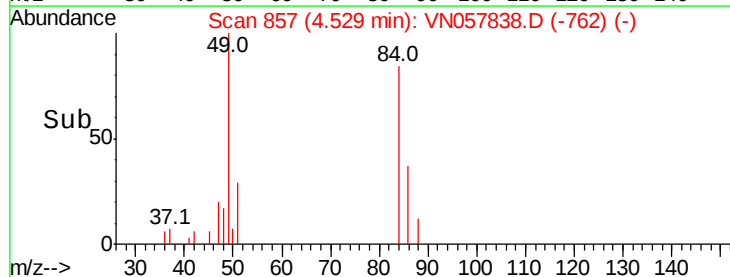
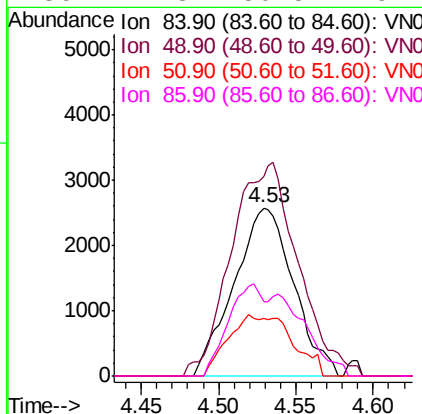
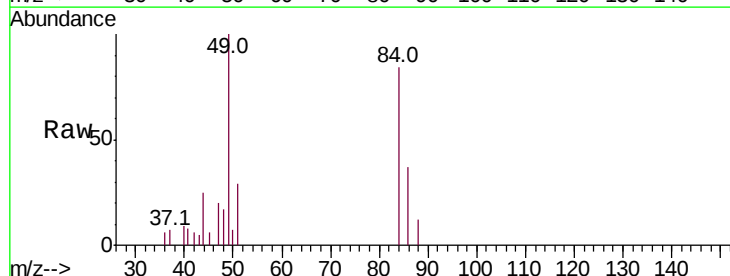
Instrument :
MSVOA_N
ClientSampled :

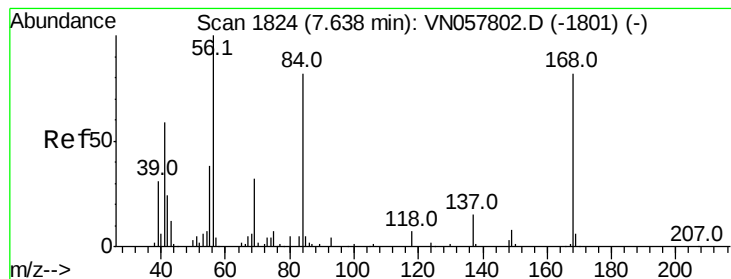
Tot Ion: 43 Resp: 3459
Ion Ratio Lower Upper
43 100
74 23.3 17.9 26.9



#20
Methylene Chloride
Concen: 0.520 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057838.D
Acq: 10 Sep 2019 6:08

Tgt Ion: 84 Resp: 6890
Ion Ratio Lower Upper
84 100
49 112.1 104.8 157.2
51 34.2 33.0 49.4
86 44.3 50.5 75.7#





#31

Cyclohexane

Concen: Below Cal

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

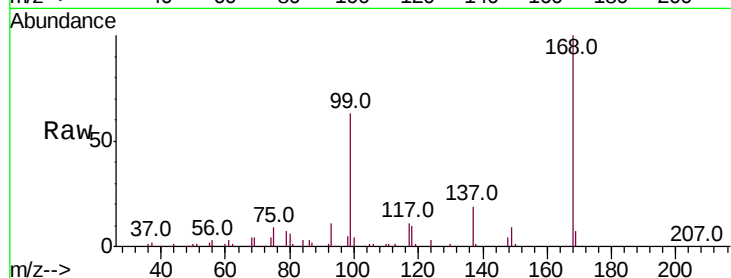
Lab File: VN057838.D

Acq: 10 Sep 2019 6:08

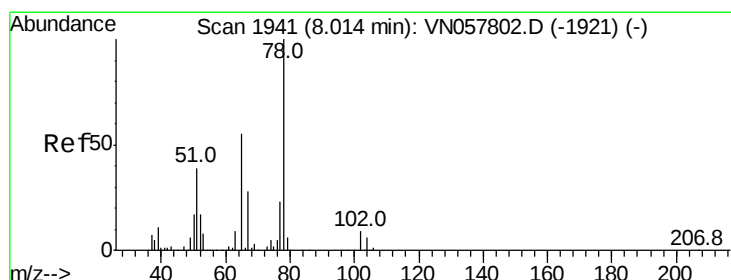
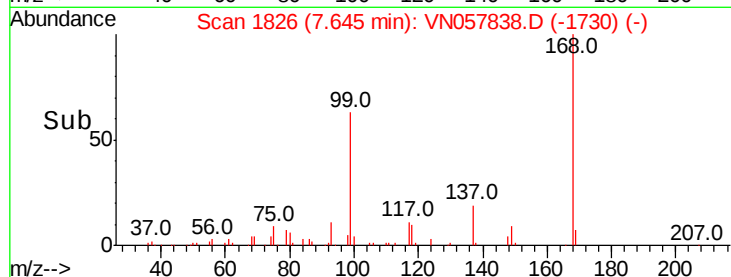
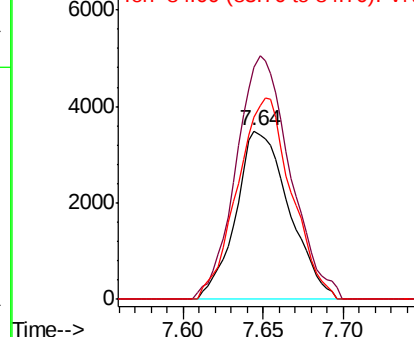
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 7960

Ion	Ratio	Lower	Upper
56	100		
69	138.1	25.9	38.9#
84	108.4	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: 53.475 ug/l

RT: 8.01 min Scan# 1941

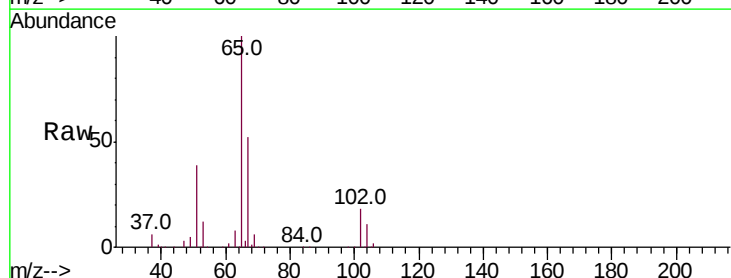
Delta R.T. 0.00 min

Lab File: VN057838.D

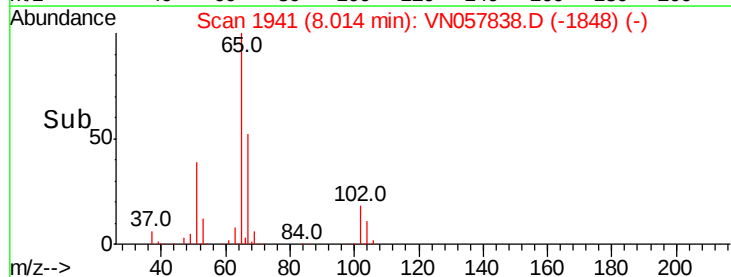
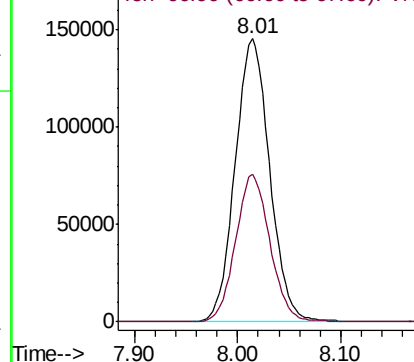
Acq: 10 Sep 2019 6:08

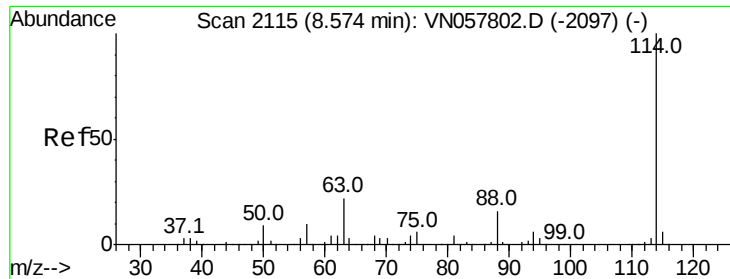
Tgt Ion: 65 Resp: 339681

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	104.0



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

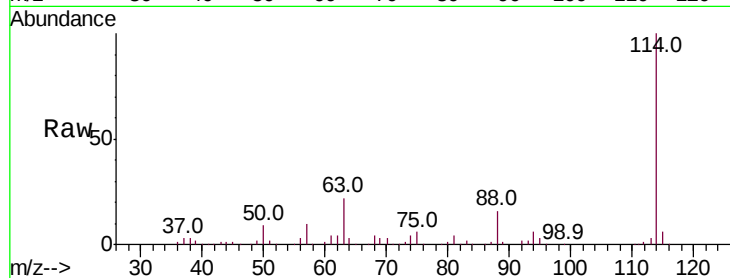




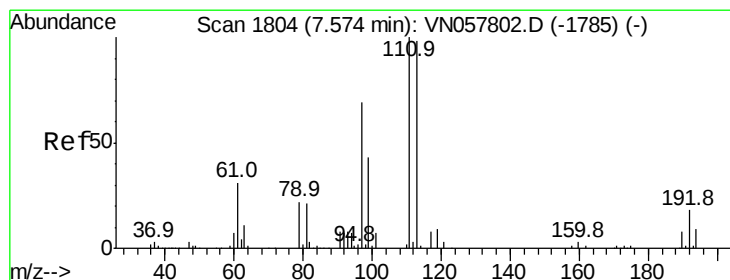
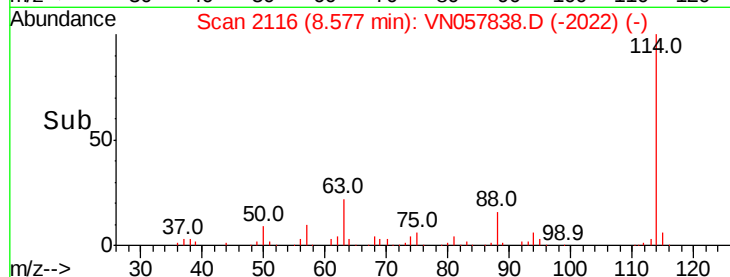
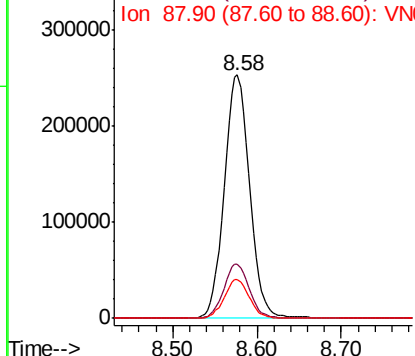
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057838.D
 Acq: 10 Sep 2019 6:08

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 529423
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.0
 88 15.9 0.0 31.4

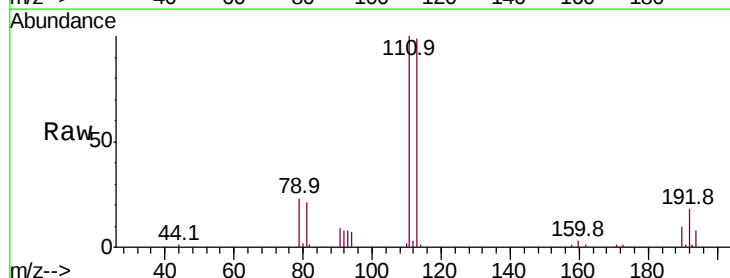


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

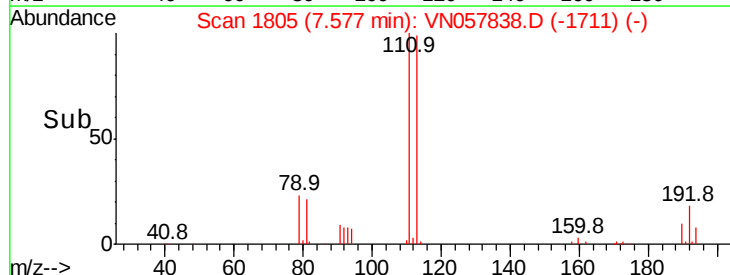
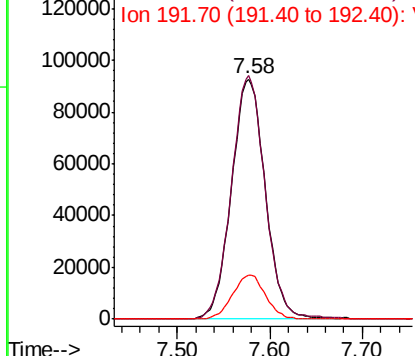


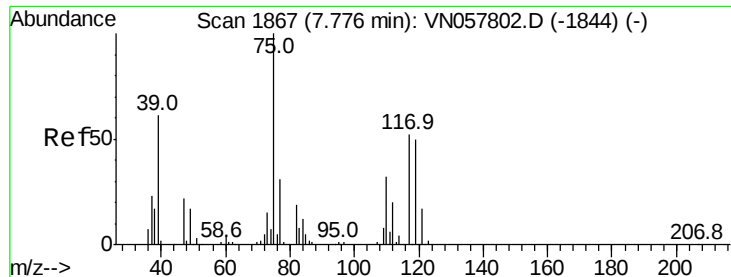
#35
 Dibromofluoromethane
 Concen: 47.970 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057838.D
 Acq: 10 Sep 2019 6:08

Tgt Ion:113 Resp: 234400
 Ion Ratio Lower Upper
 113 100
 111 100.9 81.3 121.9
 192 18.0 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

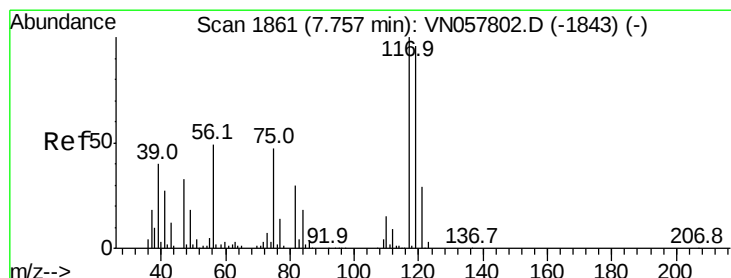
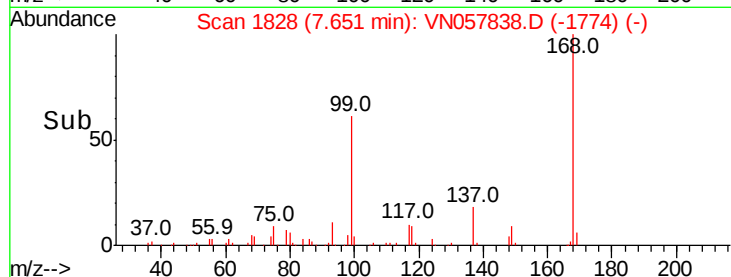
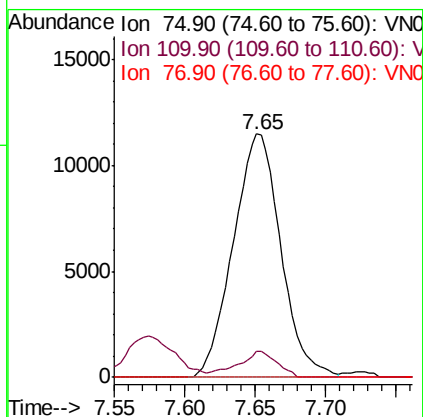
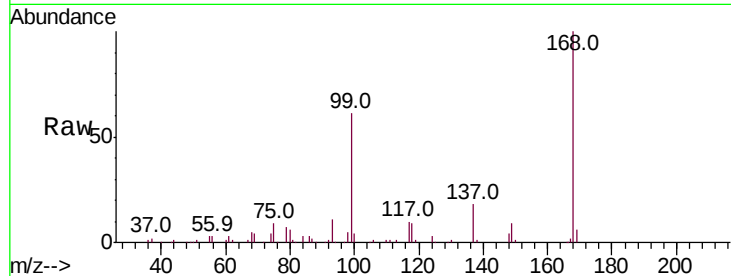




#36
 1,1-Dichloropropene
 Concen: 4.421 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057838.D
 Acq: 10 Sep 2019 6:08

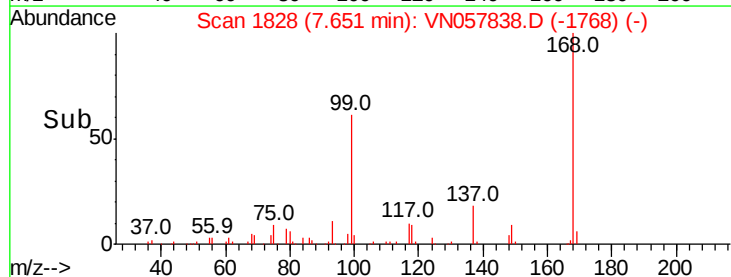
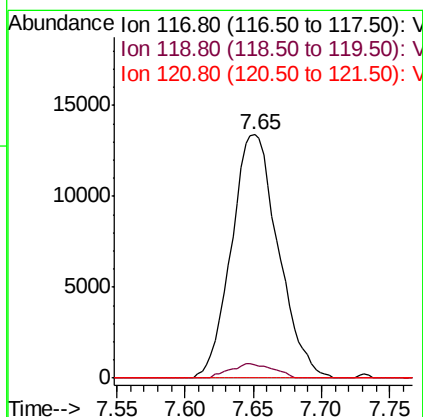
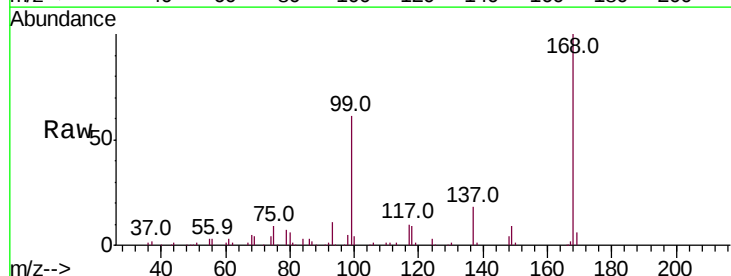
Instrument :
 MSVOA_N
 ClientSampleId :

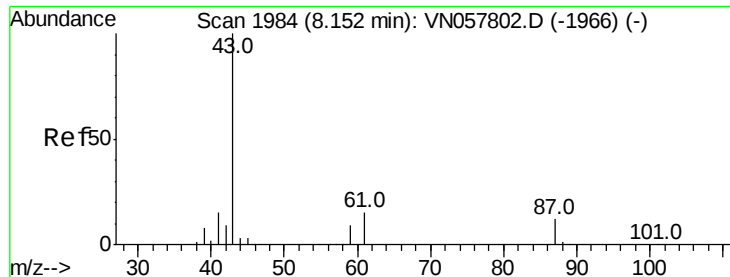
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	16.3	48.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.695 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057838.D
 Acq: 10 Sep 2019 6:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.9	115.3#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 9.483 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057838.D

Acq: 10 Sep 2019 6:08

Instrument :

MSVOA_N

ClientSampled :

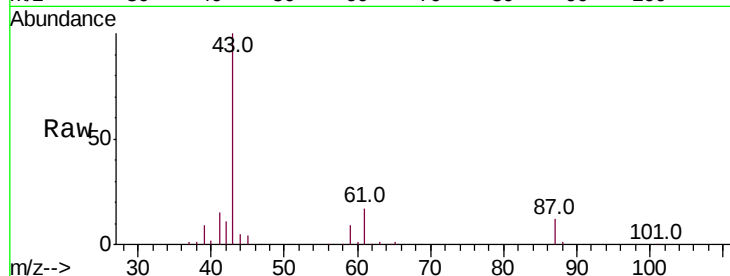
Tot Ion: 43 Resp: 101169

Ion Ratio Lower Upper

43 100

61 15.3 20.1 30.1#

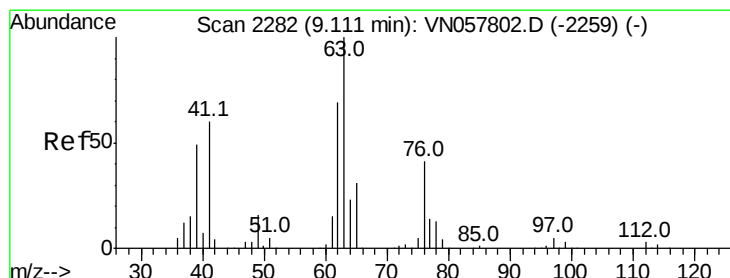
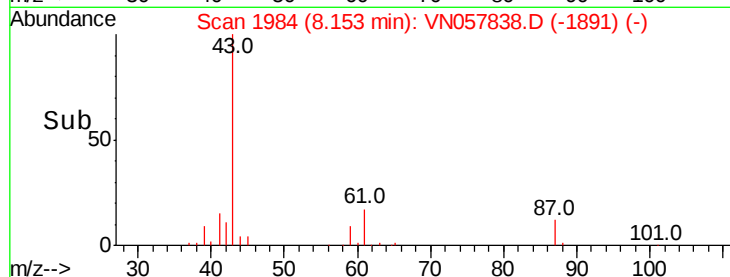
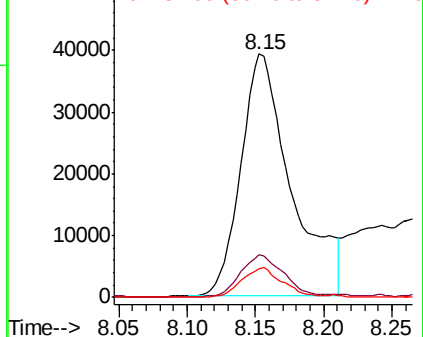
87 9.8 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO



#45

1,2-Dichloropropane

Concen: 0.359 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN057838.D

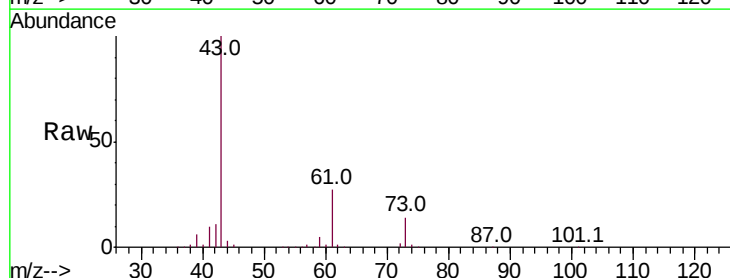
Acq: 10 Sep 2019 6:08

Tgt Ion: 63 Resp: 1929

Ion Ratio Lower Upper

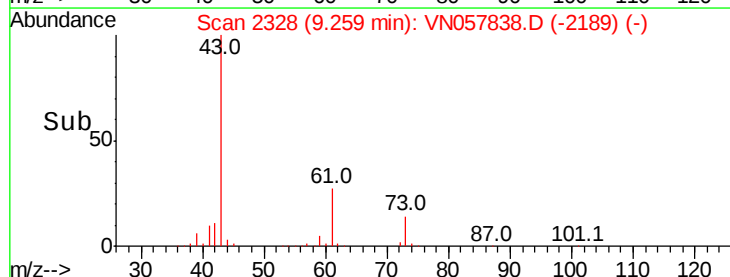
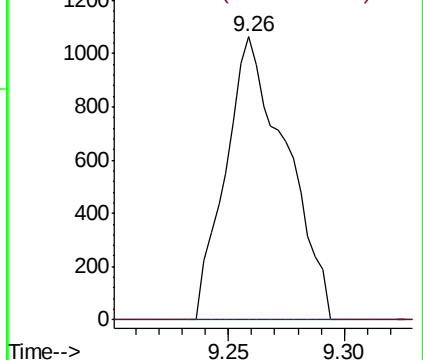
63 100

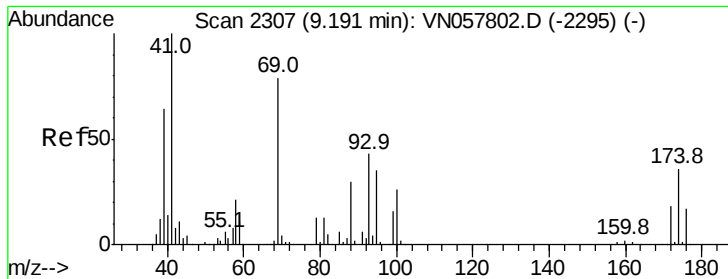
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

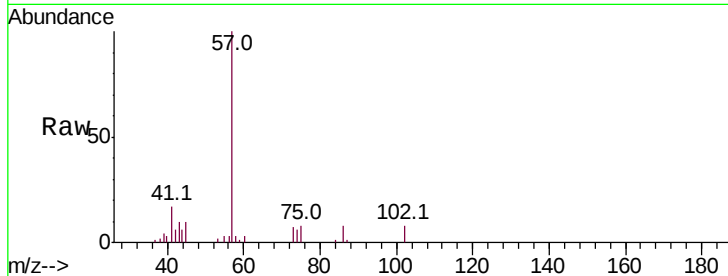




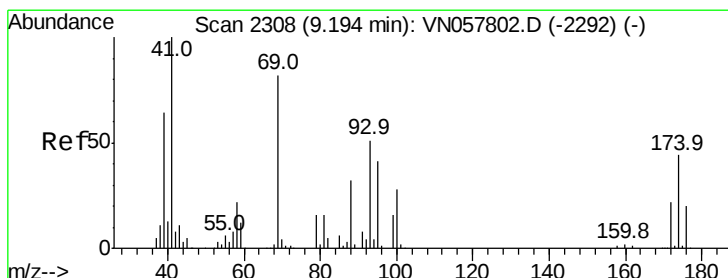
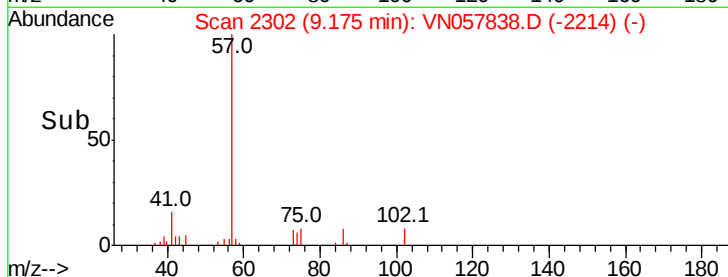
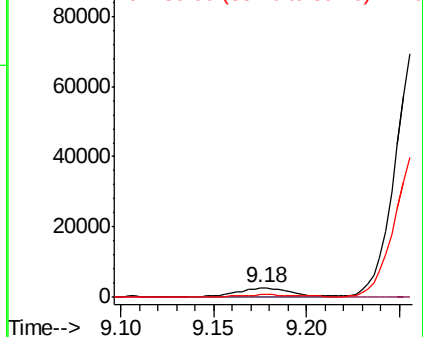
#48
Methvl methacrylate
Concen: 0.919 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057838.D
Acq: 10 Sep 2019 6:08

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 4975
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#

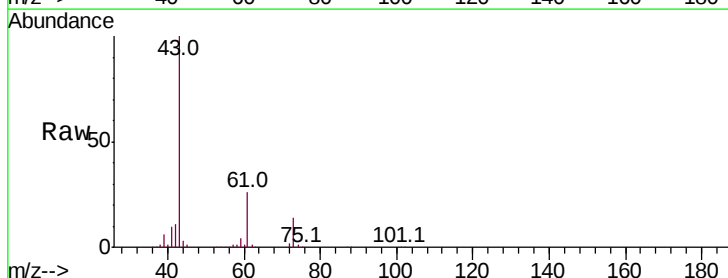


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

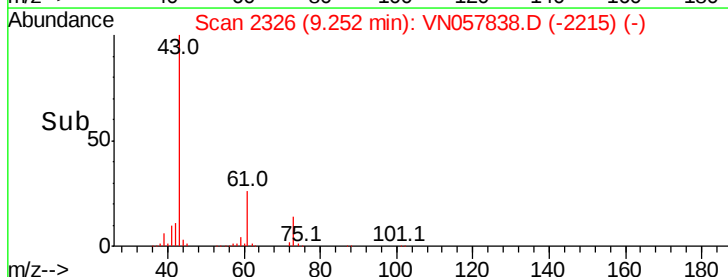
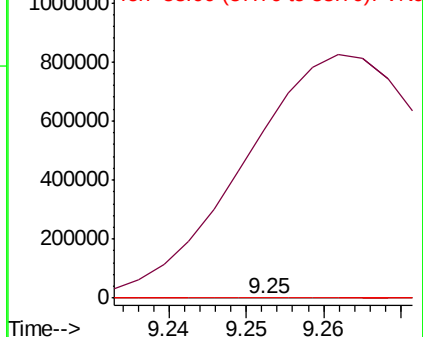


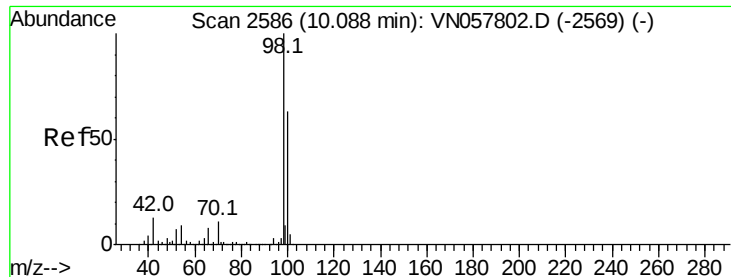
#49
1,4-Dioxane
Concen: 1.060 ug/l
RT: 9.25 min Scan# 2326
Delta R.T. 0.06 min
Lab File: VN057838.D
Acq: 10 Sep 2019 6:08

Tgt Ion: 88 Resp: 97
Ion Ratio Lower Upper
88 100
43 1589220.6 28.5 42.7#
58 7259.8 55.8 83.6#



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





#50

Toluene-d8

Concen: 50.757 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057838.D

Acq: 10 Sep 2019 6:08

Instrument :

MSVOA_N

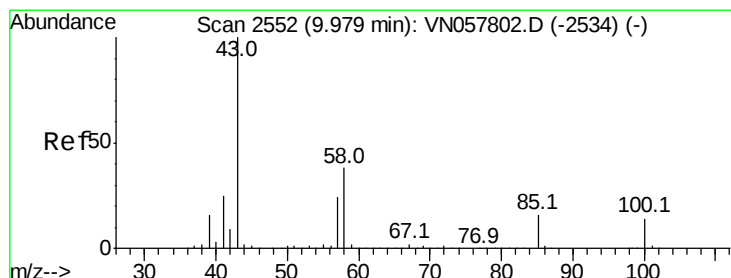
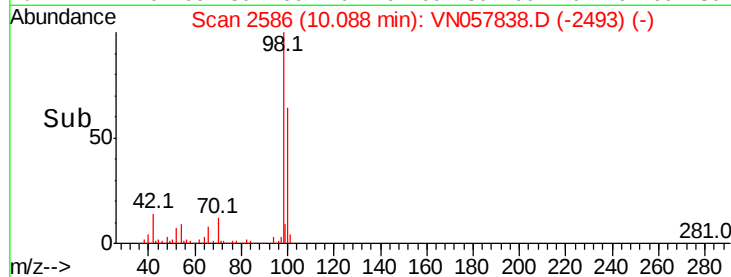
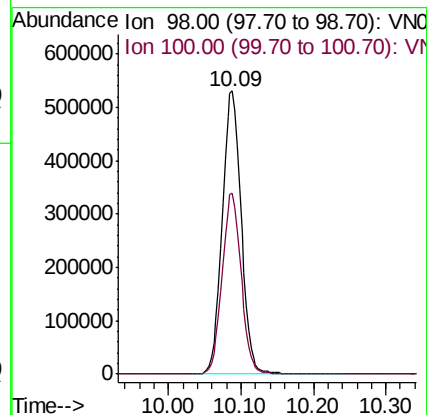
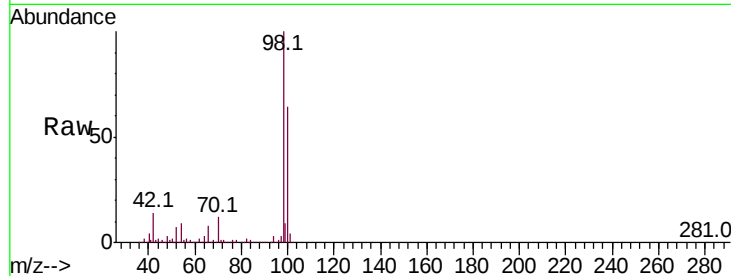
ClientSampleId :

Tot Ion: 98 Resp: 962932

Ion Ratio Lower Upper

98 100

100 63.8 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 0.957 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057838.D

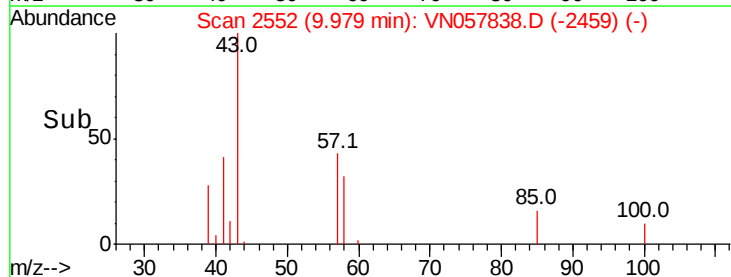
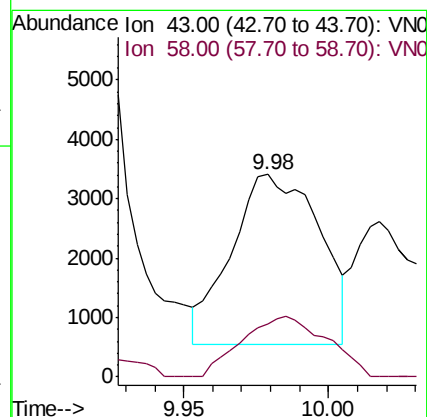
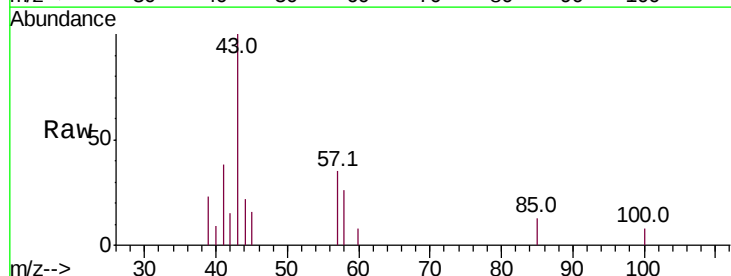
Acq: 10 Sep 2019 6:08

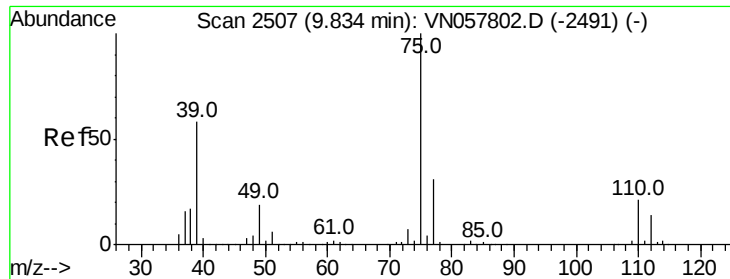
Tgt Ion: 43 Resp: 6044

Ion Ratio Lower Upper

43 100

58 34.4 29.8 44.6



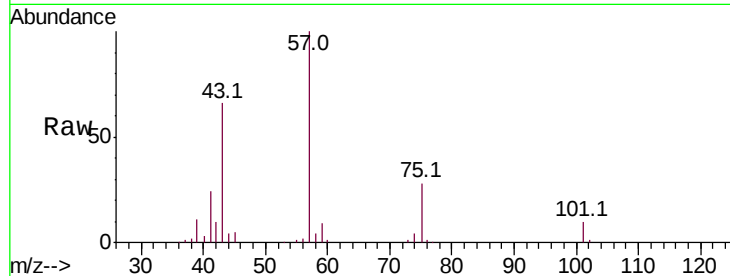


#54

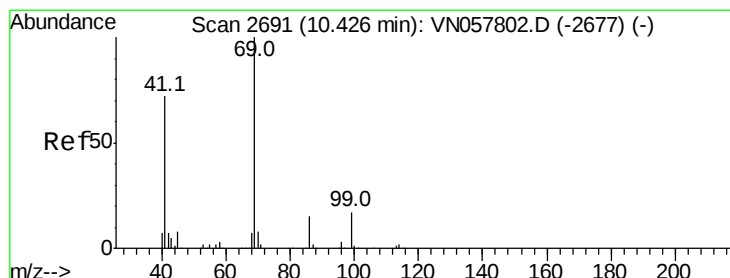
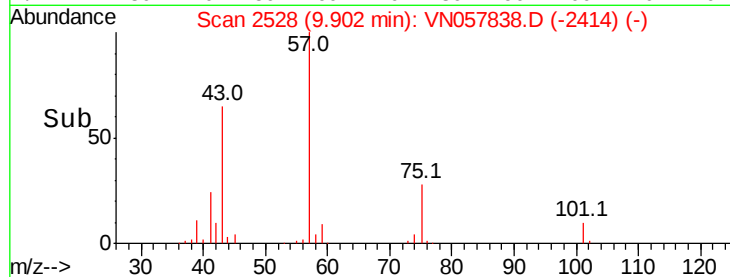
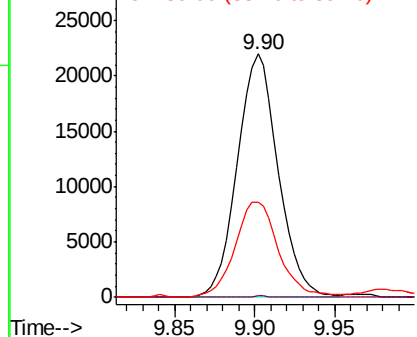
cis-1,3-Dichloropropene
 Concen: 5.054 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057838.D
 Acq: 10 Sep 2019 6:08

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 38142
 Ion Ratio Lower Upper
 75 100
 77 0.7 24.8 37.2#
 39 39.2 46.2 69.4#



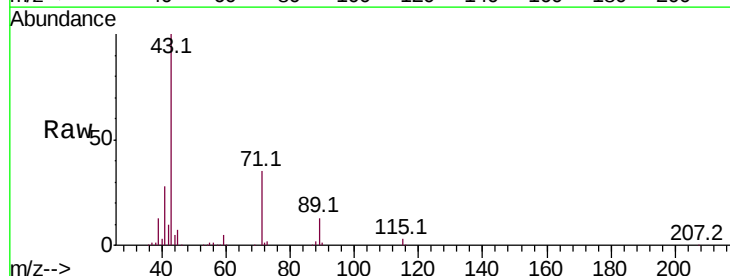
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



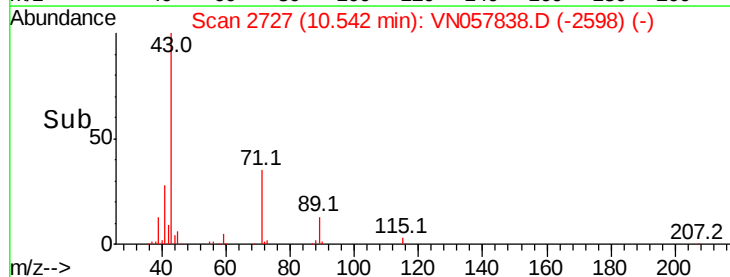
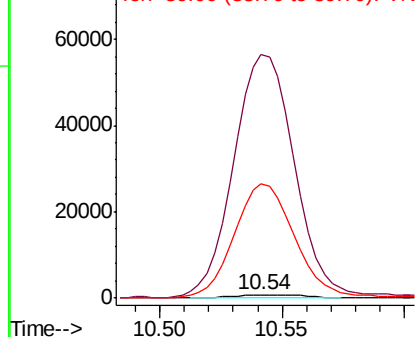
#56

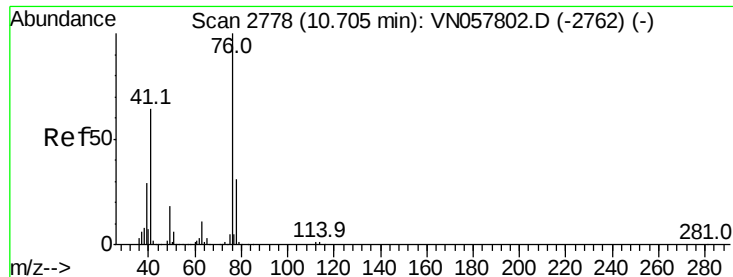
Ethyl methacrylate
 Concen: 0.214 ug/l
 RT: 10.54 min Scan# 2727
 Delta R.T. 0.12 min
 Lab File: VN057838.D
 Acq: 10 Sep 2019 6:08

Tgt Ion: 69 Resp: 1591
 Ion Ratio Lower Upper
 69 100
 41 6149.2 56.7 85.1#
 39 2885.0 36.3 54.5#



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





#57

1,3-Dichloropropane

Concen: 0.700 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN057838.D

Acq: 10 Sep 2019 6:08

Instrument :

MSVOA_N

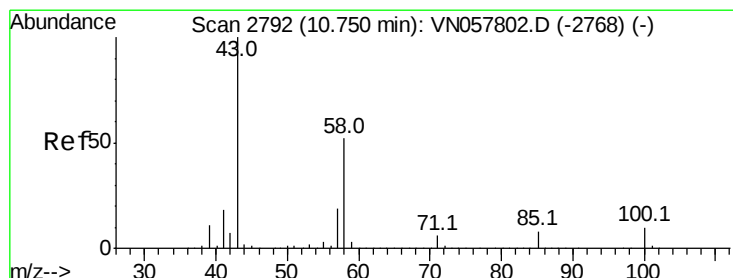
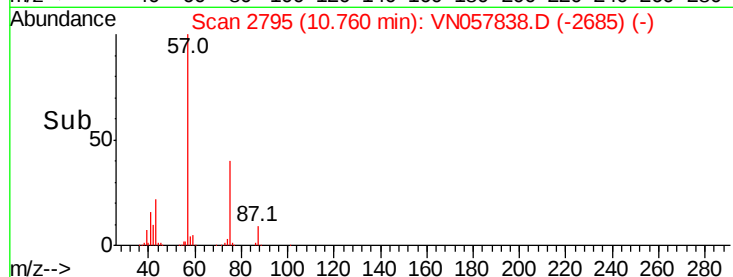
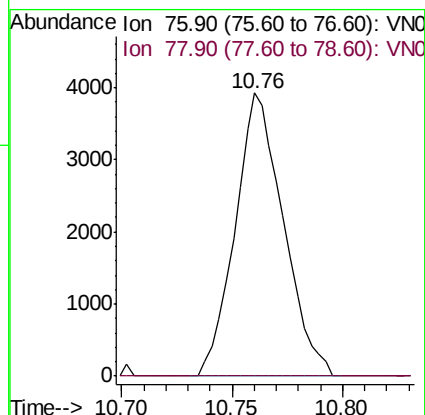
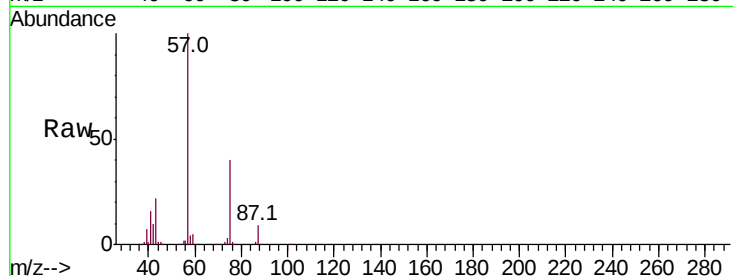
ClientSampled :

Tot Ion: 76 Resp: 5951

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



#59

2-Hexanone

Concen: 21.380 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057838.D

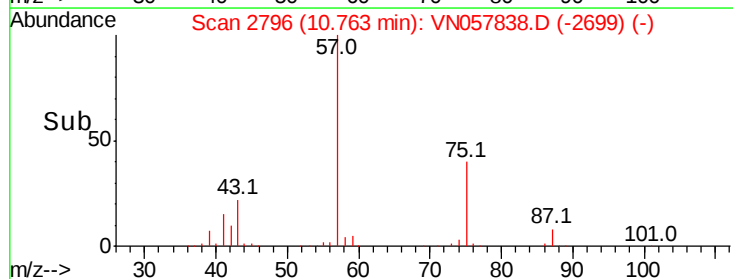
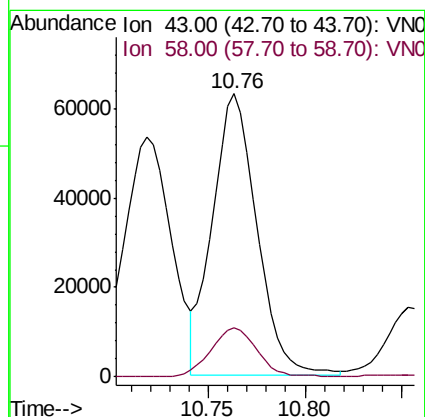
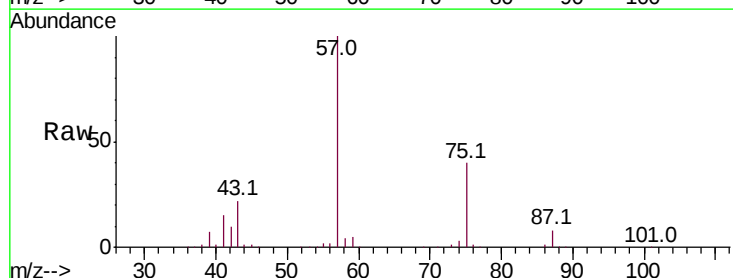
Acq: 10 Sep 2019 6:08

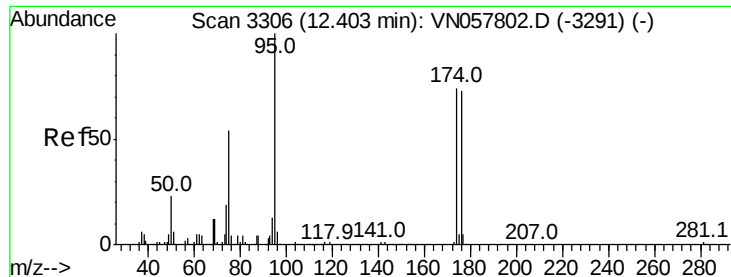
Tgt Ion: 43 Resp: 101167

Ion Ratio Lower Upper

43 100

58 18.2 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 43.532 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057838.D

Acq: 10 Sep 2019 6:08

Instrument :

MSVOA_N

ClientSampled :

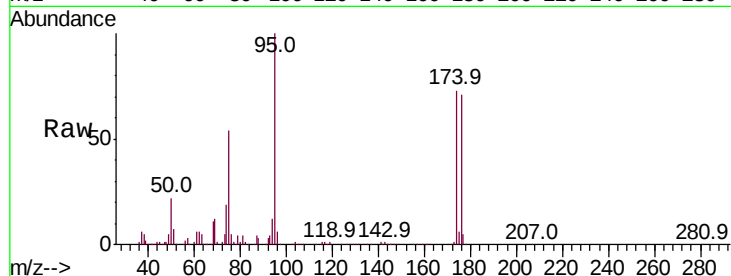
Tot Ion: 95 Resp: 314725

Ion Ratio Lower Upper

95 100

174 74.4 0.0 150.2

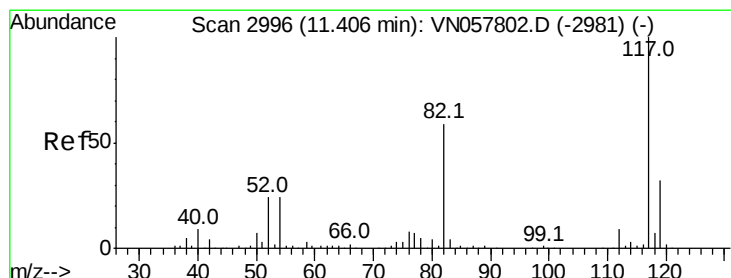
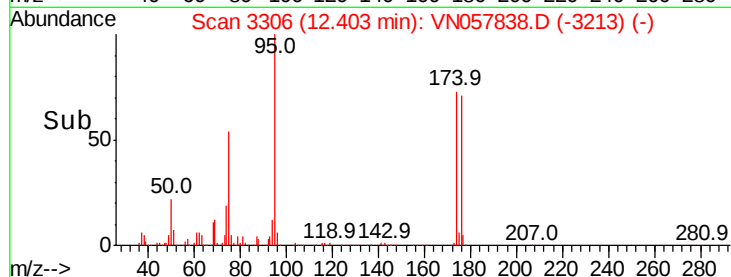
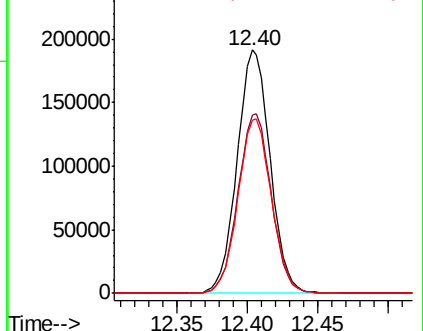
176 72.7 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057838.D

Acq: 10 Sep 2019 6:08

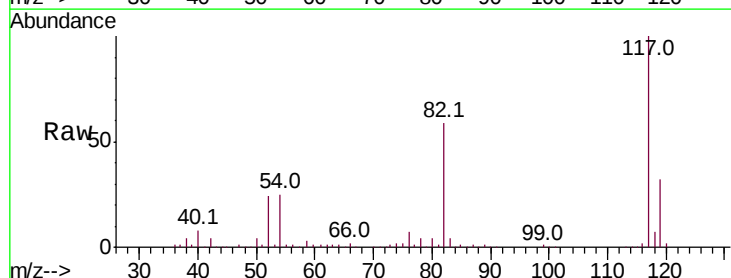
Tgt Ion: 117 Resp: 489526

Ion Ratio Lower Upper

117 100

82 58.6 47.2 70.8

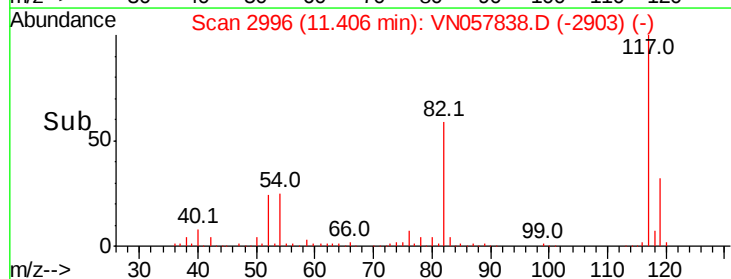
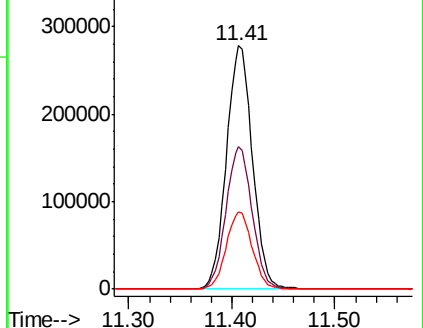
119 31.9 25.3 37.9

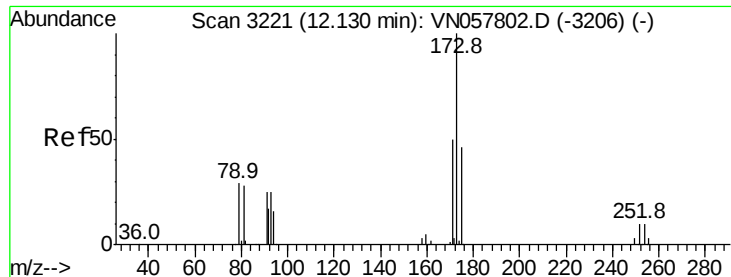


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.516 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN057838.D

Acq: 10 Sep 2019 6:08

Instrument :

MSVOA_N

ClientSampled :

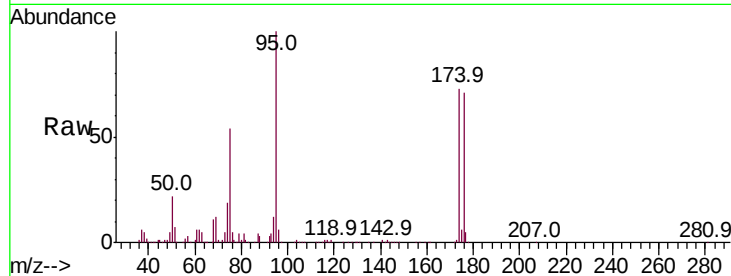
Tot Ion:173 Resp: 1430

Ion Ratio Lower Upper

173 100

175 1104.6 23.5 70.6#

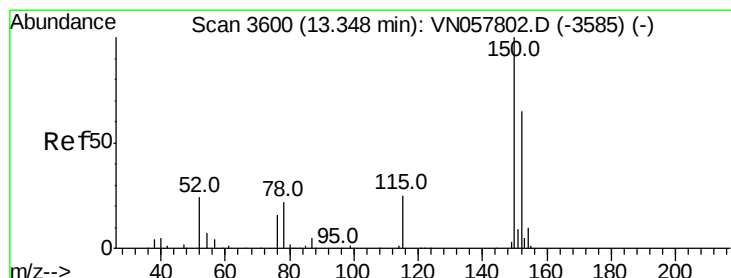
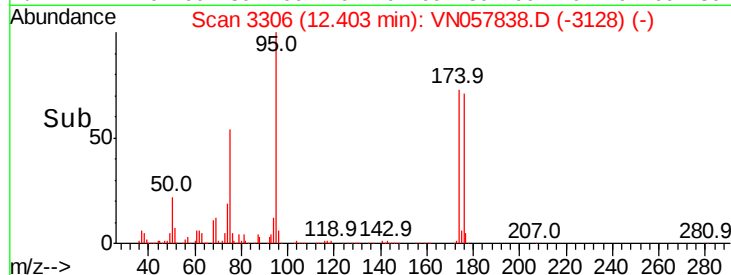
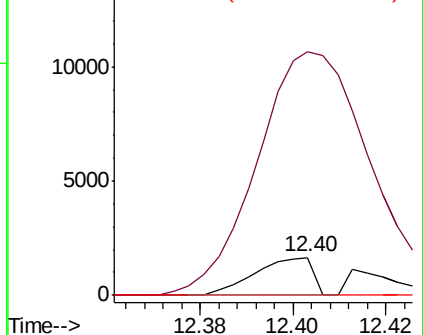
254 0.0 0.1 0.1#



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: VN057838.D

Acq: 10 Sep 2019 6:08

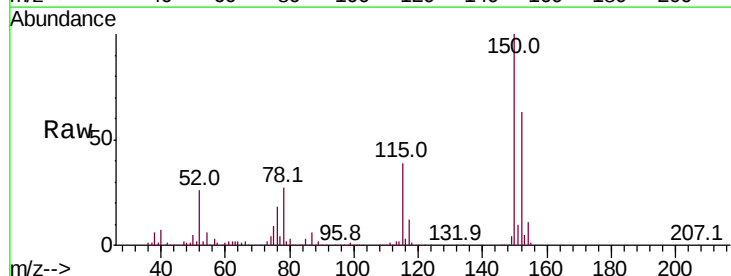
Tgt Ion:152 Resp: 249818

Ion Ratio Lower Upper

152 100

115 61.2 30.3 91.0

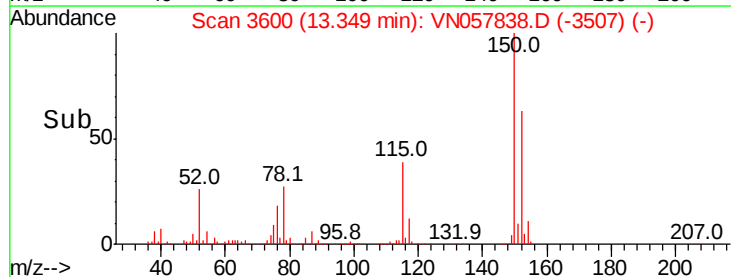
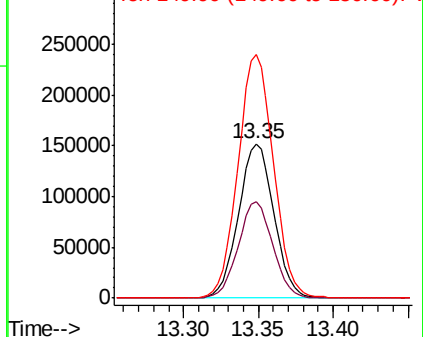
150 158.8 0.0 352.4

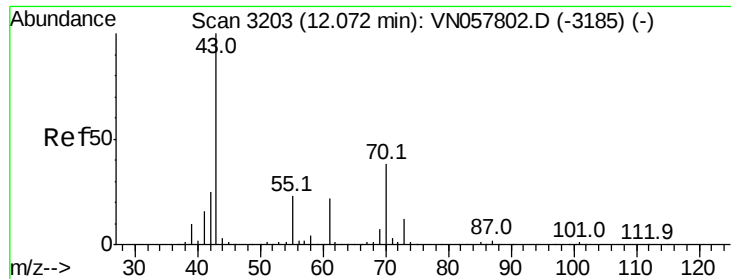


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.290 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN057838.D

Acq: 10 Sep 2019 6:08

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2450

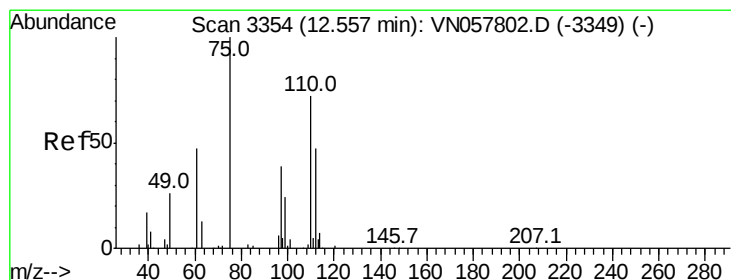
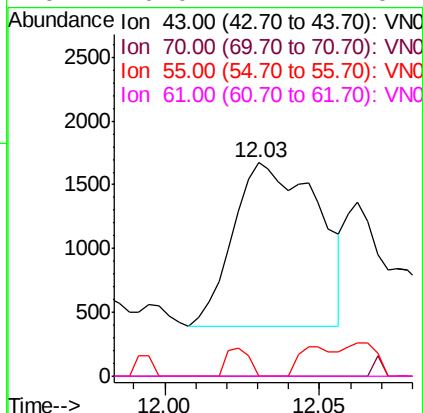
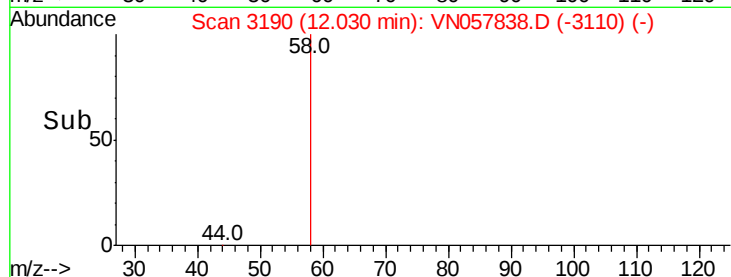
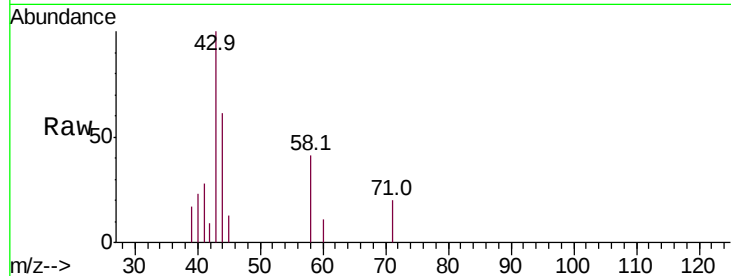
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 4.6 18.6 27.8#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 30.893 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057838.D

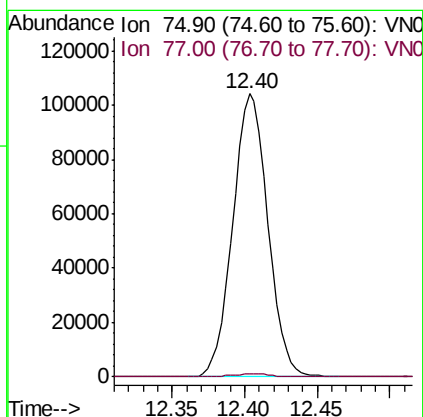
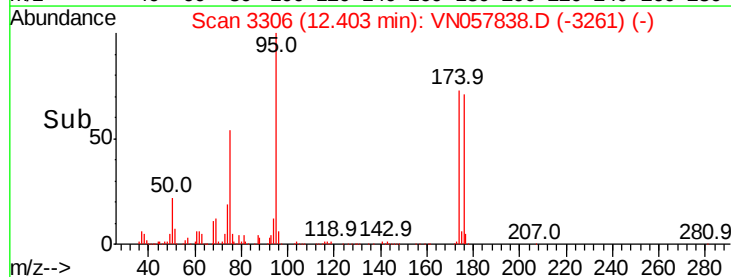
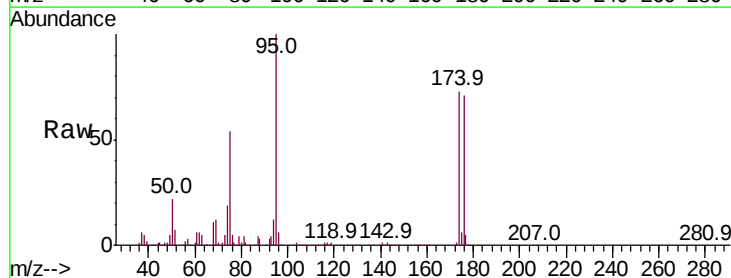
Acq: 10 Sep 2019 6:08

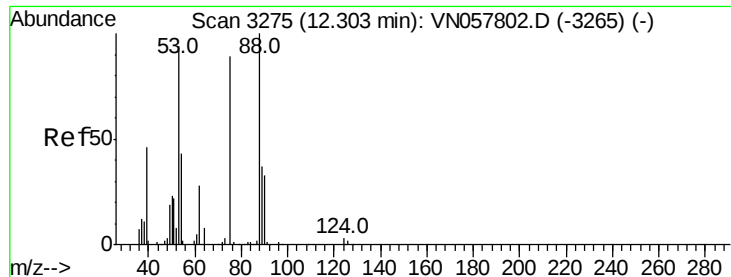
Tgt Ion: 75 Resp: 174588

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 108.714 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057838.D

Acq: 10 Sep 2019 6:08

Instrument :

MSVOA_N

ClientSampleId :

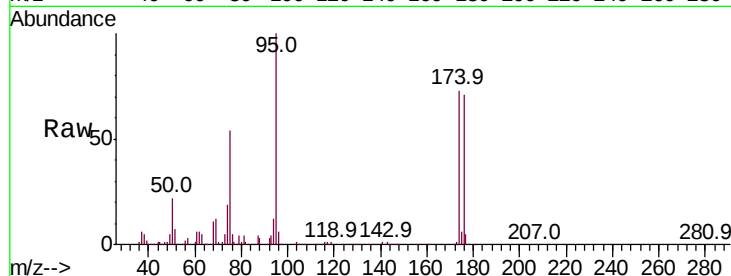
Tot Ion: 75 Resp: 174588

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

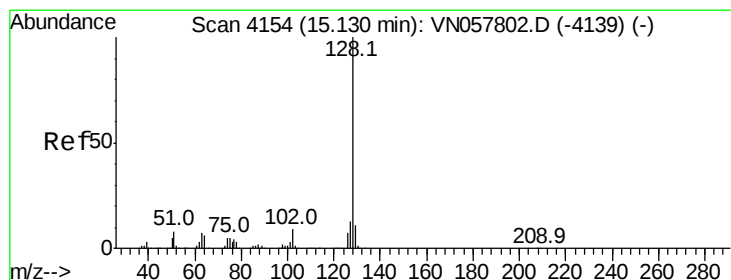
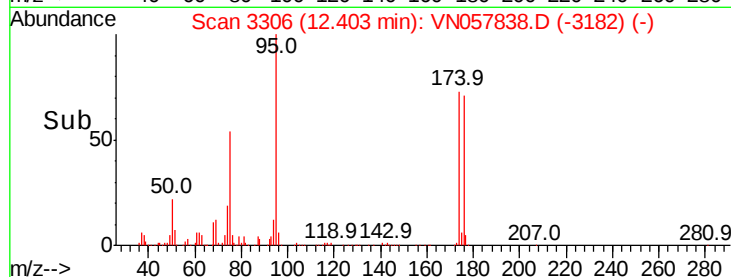
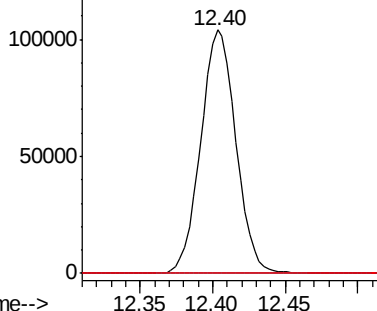
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN057802.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN057802.D (-3265) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN057838.D

Acq: 10 Sep 2019 6:08

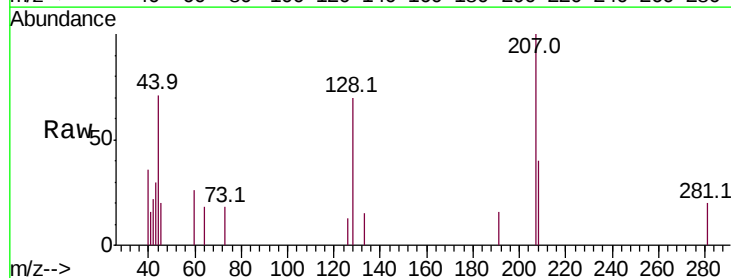
Tgt Ion: 128 Resp: 1748

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

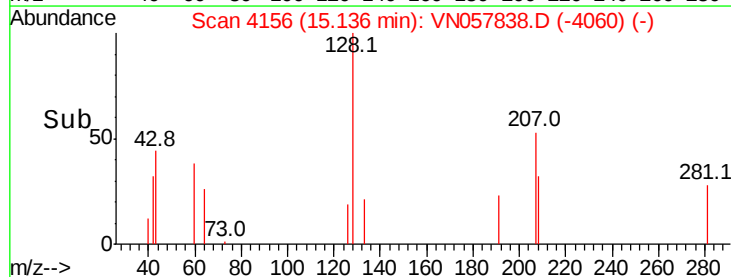
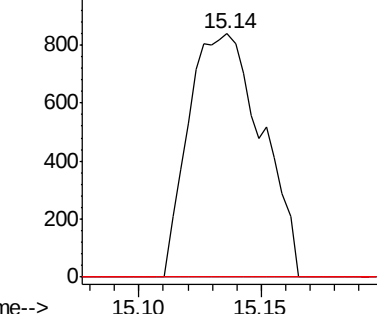
129 0.0 8.6 12.8#

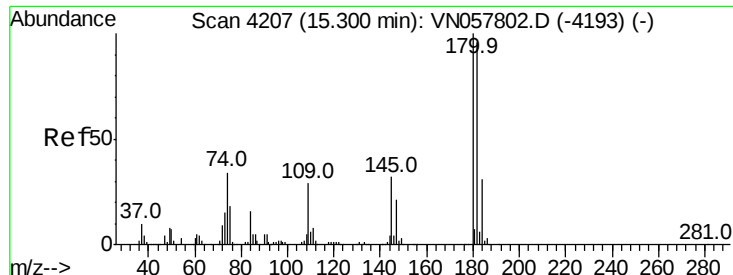


Abundance Ion 128.00 (127.70 to 128.70): VN057802.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN057802.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN057802.D (-4139) (-)

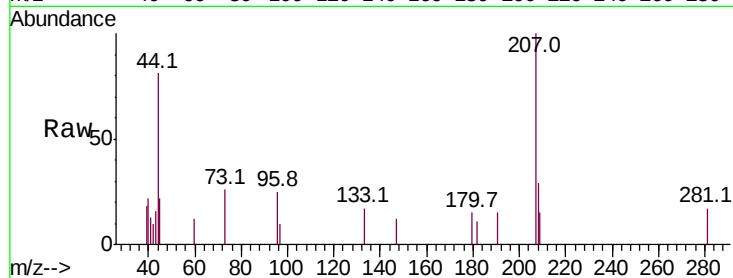




#96
 1,2,3-Trichlorobenzene
 Concen: 1.020 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. -0.00 min
 Lab File: VN057838.D
 Acq: 10 Sep 2019 6:08

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	280.7	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

