

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102519\
 Data File : VN058969.D
 Acq On : 24 Oct 2019 18:08
 Operator : JC/SP
 Sample : K5514-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 25 01:26:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	308674	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	493051	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	444508	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	163782	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	233972	51.68	ug/l	0.00
Spiked Amount						
			Recovery	=	103.36%	
35) Dibromofluoromethane	7.57	113	166639	51.41	ug/l	0.00
Spiked Amount						
			Recovery	=	102.82%	
50) Toluene-d8	10.09	98	620698	49.33	ug/l	0.00
Spiked Amount						
			Recovery	=	98.66%	
62) 4-Bromofluorobenzene	12.40	95	195201	42.24	ug/l	0.00
Spiked Amount						
			Recovery	=	84.48%	

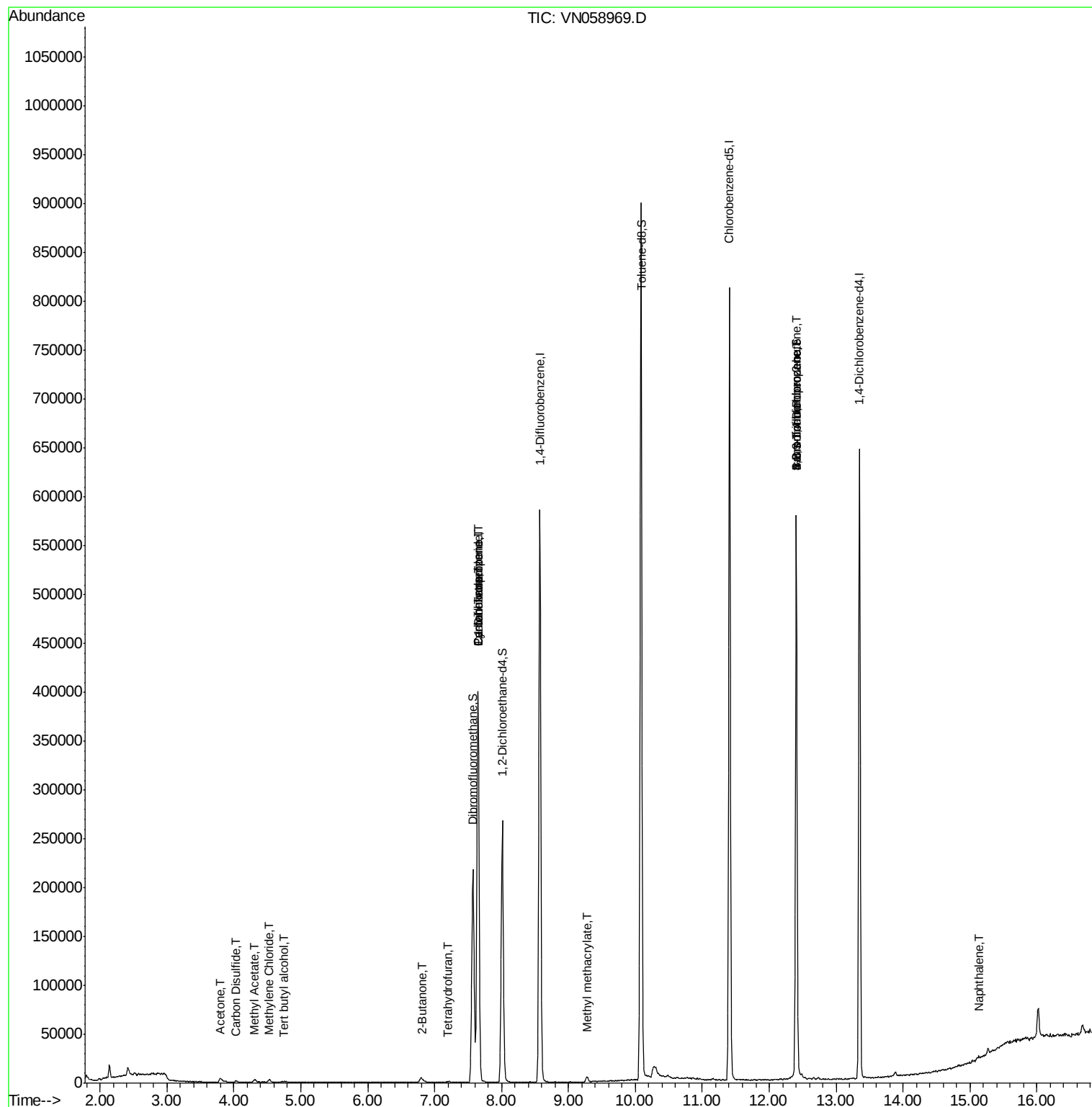
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	262	0.349	ug/l #	72
16) Acetone	3.79	43	7297	3.262	ug/l #	88
17) Carbon Disulfide	4.04	76	2541	0.259	ug/l #	75
18) Methyl Acetate	4.31	43	5537	1.089	ug/l #	87
20) Methylene Chloride	4.52	84	1823	0.477	ug/l	92
25) 2-Butanone	6.82	43	951	0.327	ug/l #	51
29) Tetrahydrofuran	7.20	42	877	0.494	ug/l #	39
31) Cyclohexane	7.65	56	7508	1.154	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	26342	5.218	ug/l #	51
38) Carbon Tetrachloride	7.65	117	31558	6.069	ug/l #	16
48) Methyl methacrylate	9.28	41	2870	0.717	ug/l #	34
71) Bromoform	12.40	173	1294	0.489	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	104783	27.605	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	104783	71.913	ug/l #	10
95) Naphthalene	15.14	128	183	2.244	ug/l #	70

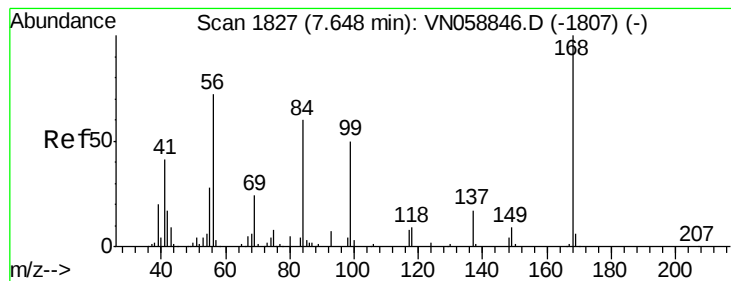
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058969.D

Acq: 24 Oct 2019 18:08

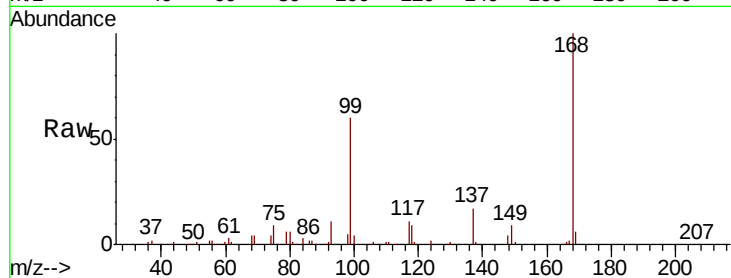
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 308674

Ion Ratio Lower Upper

168 100

99 59.9 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

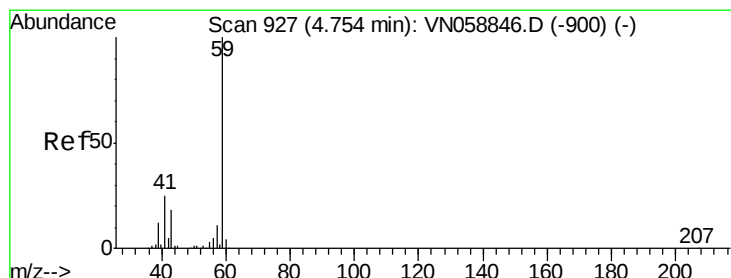
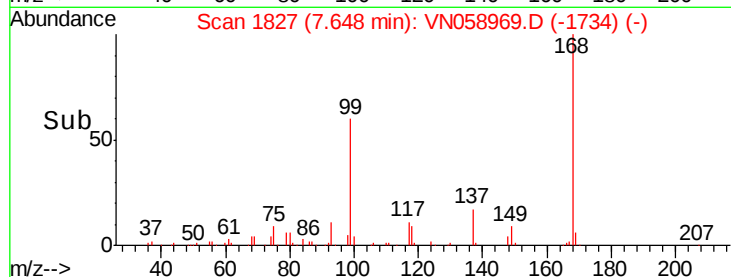
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.349 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.02 min

Lab File: VN058969.D

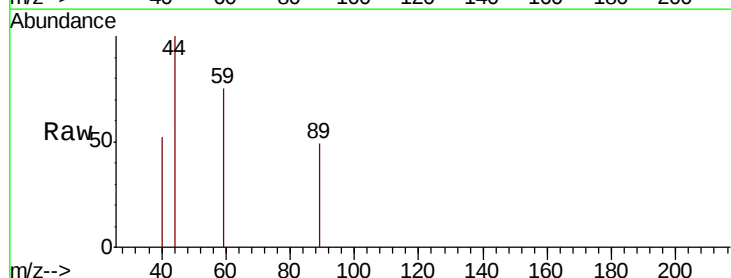
Acq: 24 Oct 2019 18:08

Tgt Ion: 59 Resp: 262

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.73

500

400

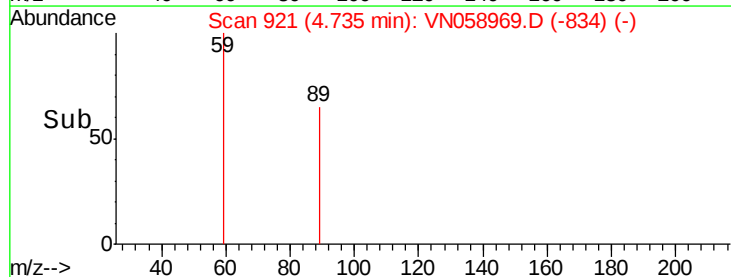
300

200

100

0

Time-->





#16

Acetone

Concen: 3.262 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN058969.D

Acq: 24 Oct 2019 18:08

Instrument :

MSVOA_N

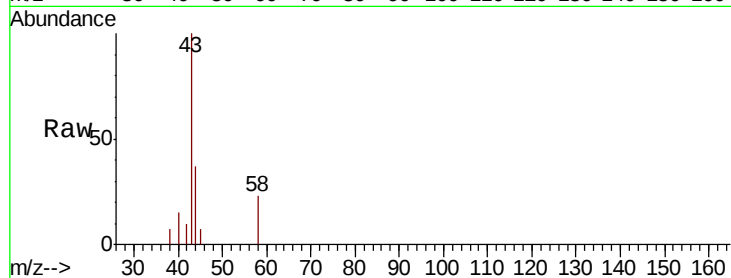
ClientSampled :

Tot Ion: 43 Resp: 7297

Ion Ratio Lower Upper

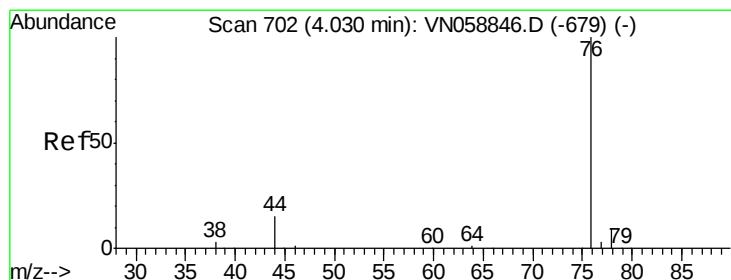
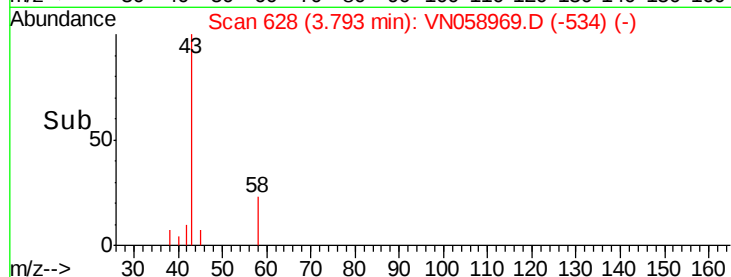
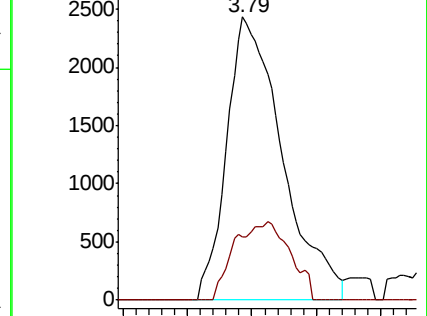
43 100

58 22.5 23.1 34.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.259 ug/l

RT: 4.04 min Scan# 705

Delta R.T. 0.01 min

Lab File: VN058969.D

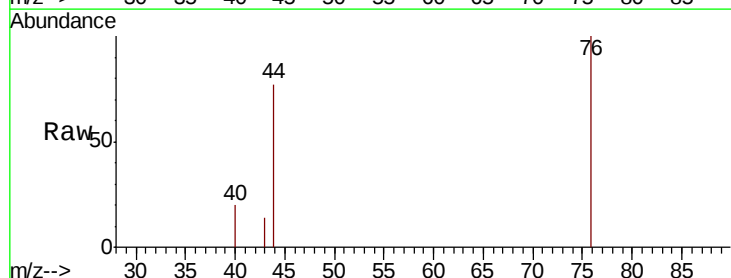
Acq: 24 Oct 2019 18:08

Tgt Ion: 76 Resp: 2541

Ion Ratio Lower Upper

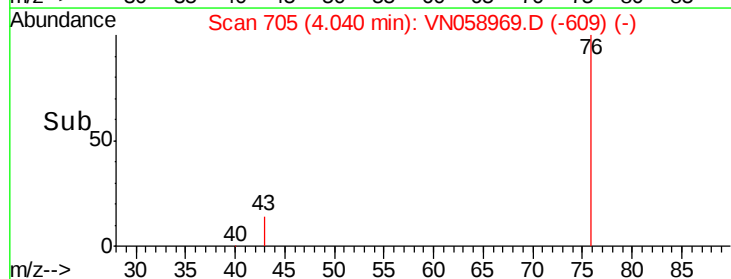
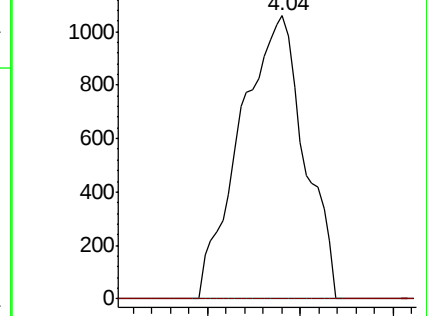
76 100

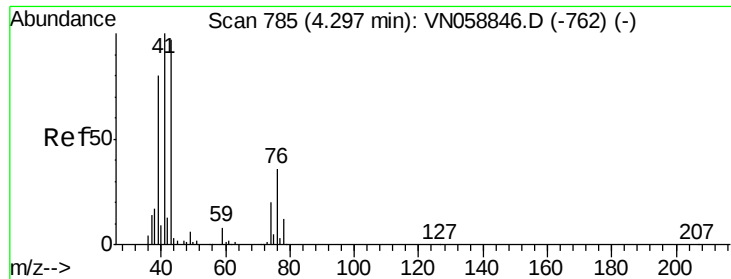
78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

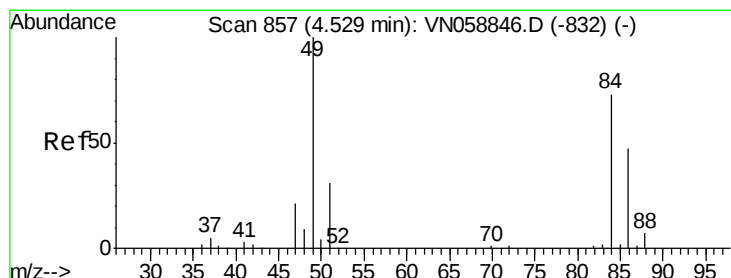
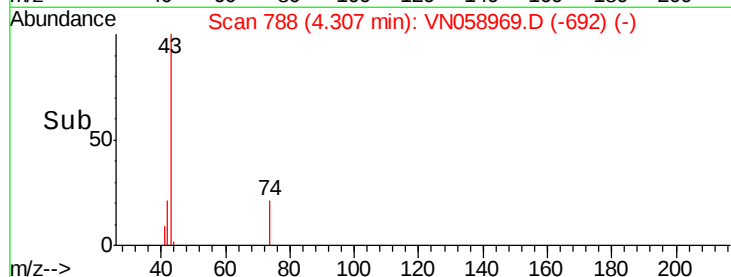
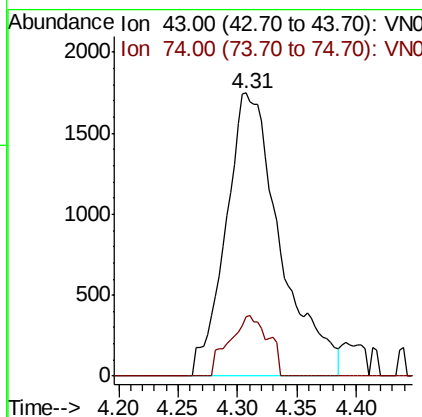
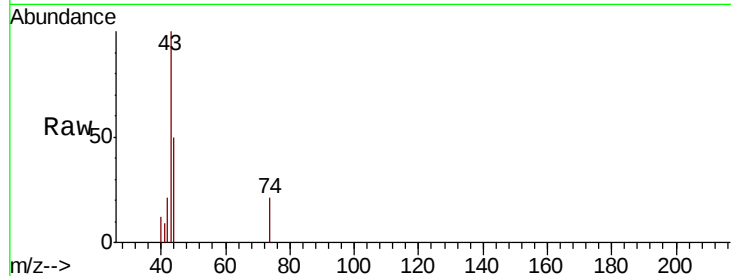




#18
Methyl Acetate
Concen: 1.089 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058969.D
Acq: 24 Oct 2019 18:08

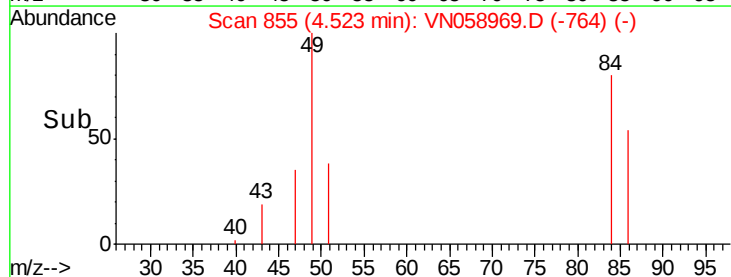
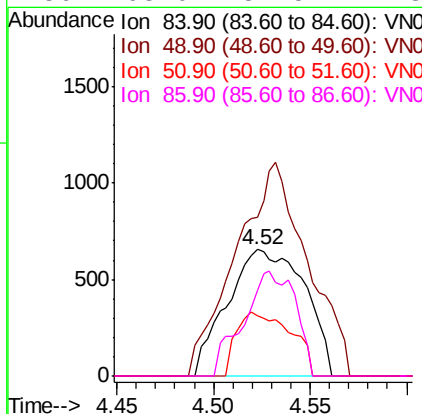
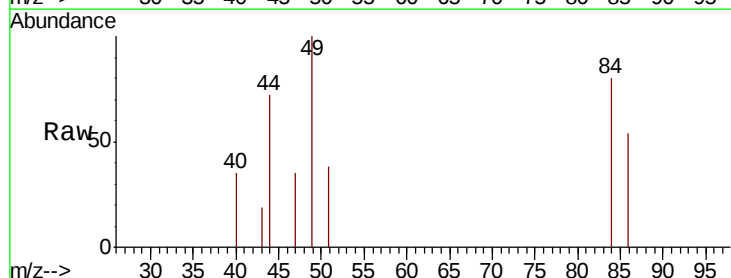
Instrument :
MSVOA_N
ClientSampleId :

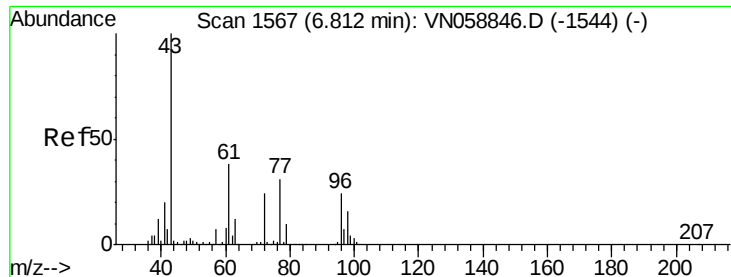
Tot Ion: 43 Resp: 5537
Ion Ratio Lower Upper
43 100
74 15.2 17.1 25.7#



#20
Methylene Chloride
Concen: 0.477 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.01 min
Lab File: VN058969.D
Acq: 24 Oct 2019 18:08

Tgt Ion: 84 Resp: 1823
Ion Ratio Lower Upper
84 100
49 125.8 109.6 164.4
51 47.7 33.8 50.6
86 68.0 51.5 77.3





#25

2-Butanone

Concen: 0.327 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN058969.D

Acq: 24 Oct 2019 18:08

Instrument :

MSVOA_N

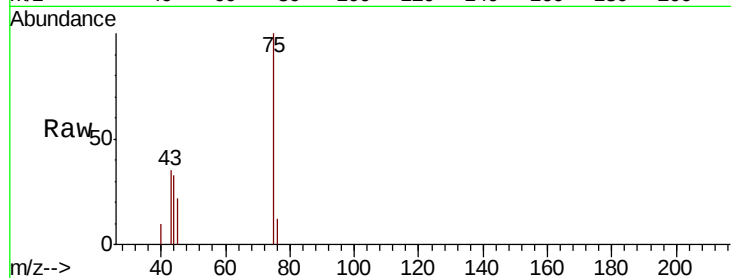
ClientSampled :

Tot Ion: 43 Resp: 951

Ion Ratio Lower Upper

43 100

72 0.0 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.82

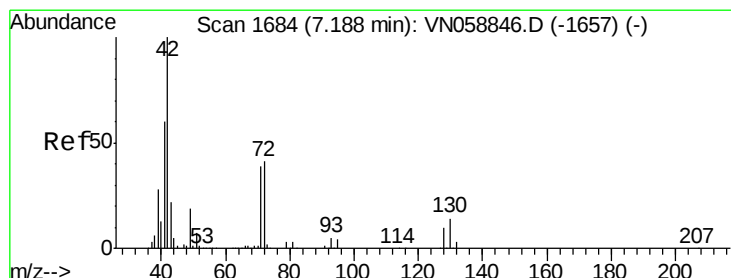
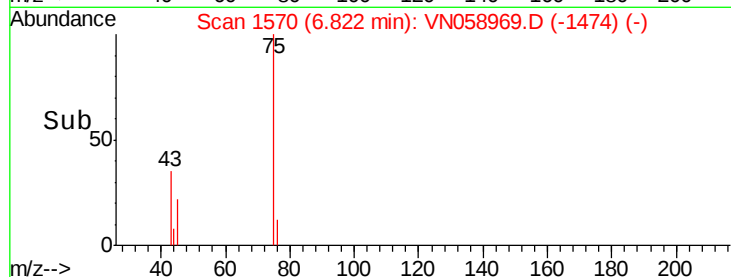
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 0.494 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.02 min

Lab File: VN058969.D

Acq: 24 Oct 2019 18:08

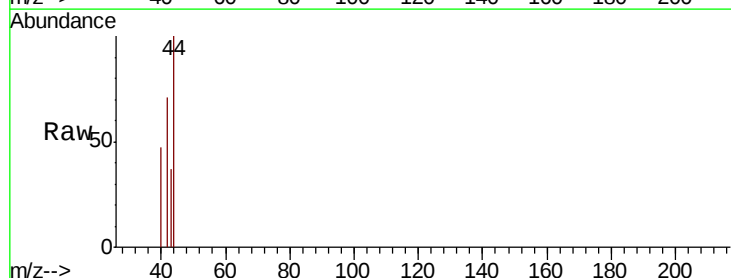
Tgt Ion: 42 Resp: 877

Ion Ratio Lower Upper

42 100

72 3.3 32.2 48.2#

71 0.0 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

500

400

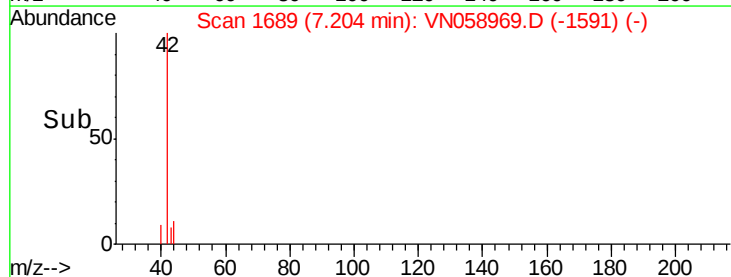
300

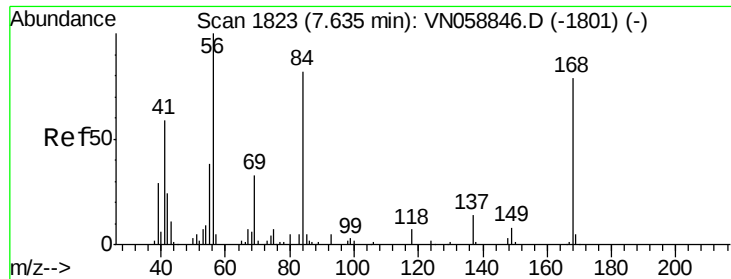
200

100

0

Time-->

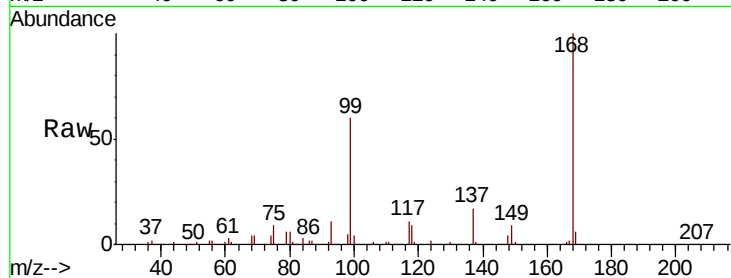




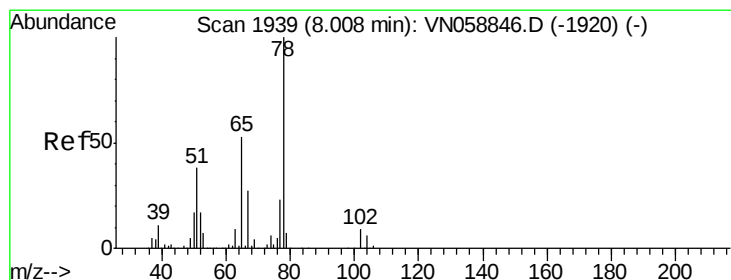
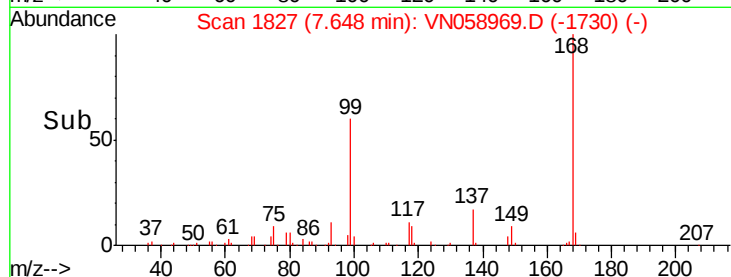
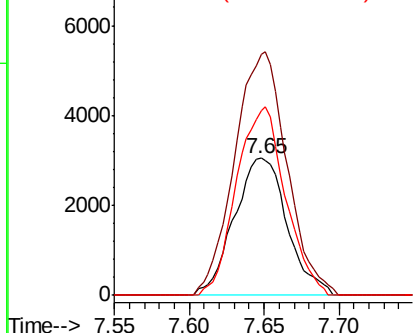
#31
Cyclohexane
Concen: 1.154 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058969.D
Acq: 24 Oct 2019 18:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 7508
Ion Ratio Lower Upper
56 100
69 175.4 26.2 39.4#
84 134.8 65.6 98.4#

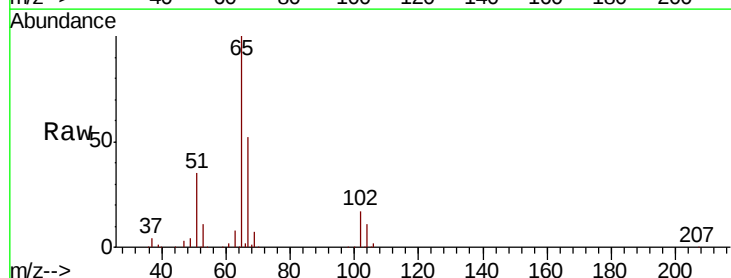


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

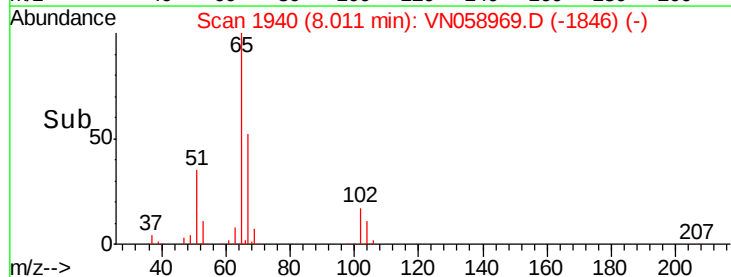
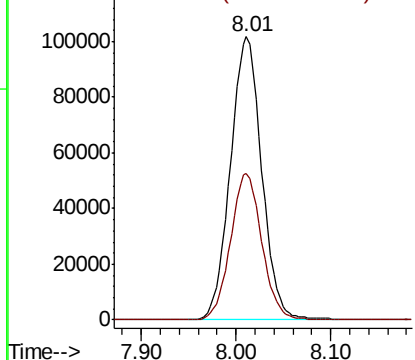


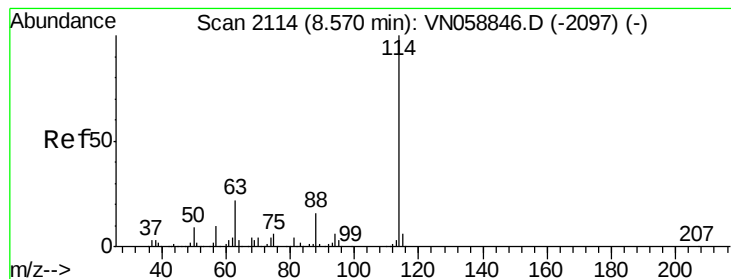
#33
1,2-Dichloroethane-d4
Concen: 51.682 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. 0.00 min
Lab File: VN058969.D
Acq: 24 Oct 2019 18:08

Tgt Ion: 65 Resp: 233972
Ion Ratio Lower Upper
65 100
67 51.7 0.0 103.2



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: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN058969.D

Acq: 24 Oct 2019 18:08

Instrument :

MSVOA_N

ClientSampleId :

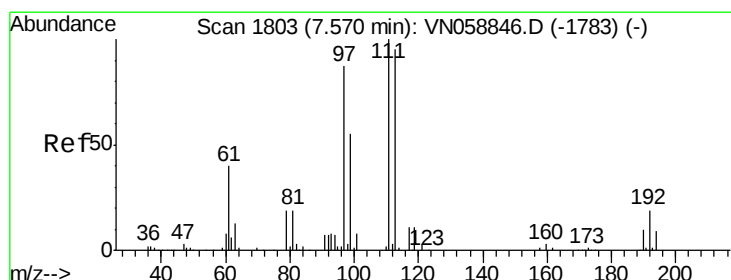
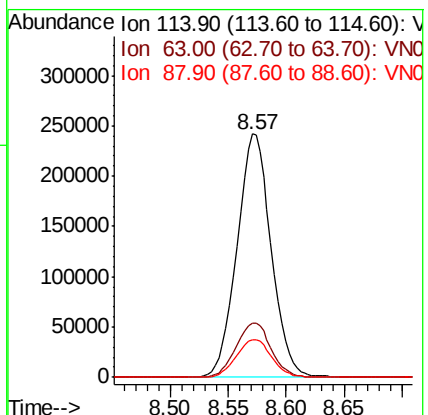
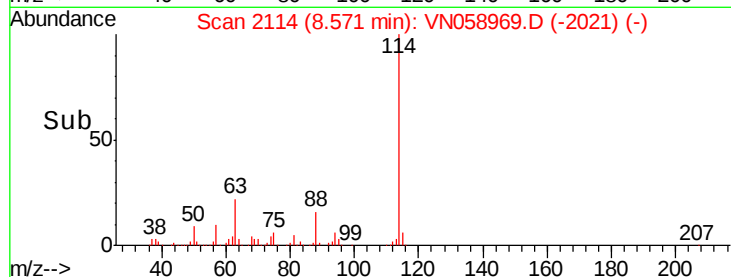
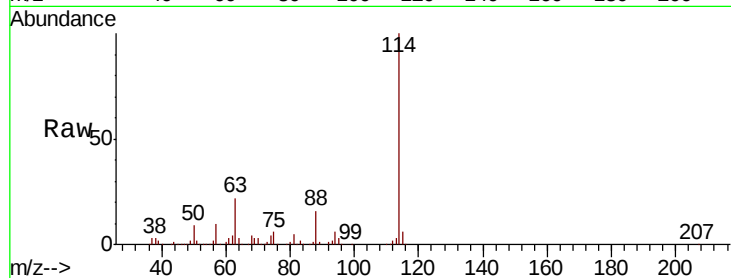
Tot Ion:114 Resp: 493051

Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.4

88 15.6 0.0 31.4



#35

Dibromofluoromethane

Concen: 51.405 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN058969.D

Acq: 24 Oct 2019 18:08

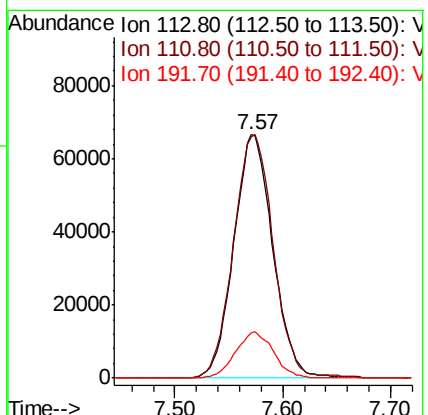
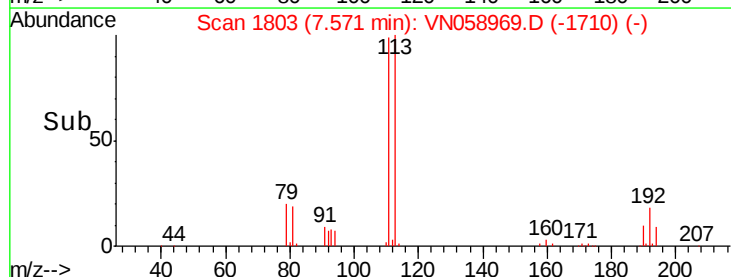
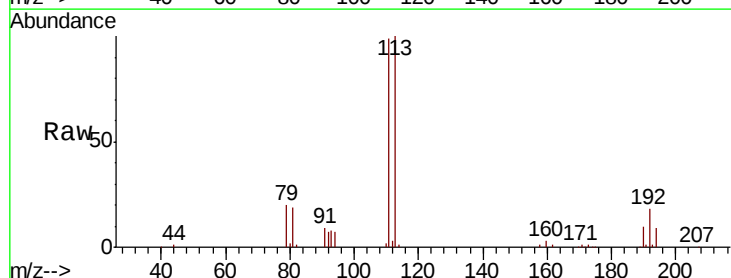
Tgt Ion:113 Resp: 166639

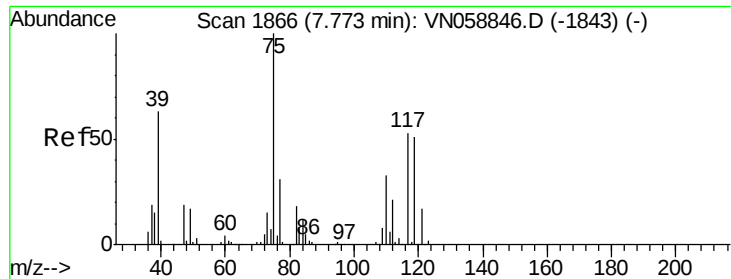
Ion Ratio Lower Upper

113 100

111 102.4 82.0 123.0

192 18.5 15.0 22.6

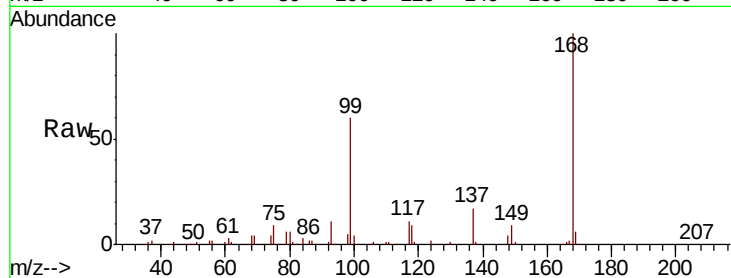




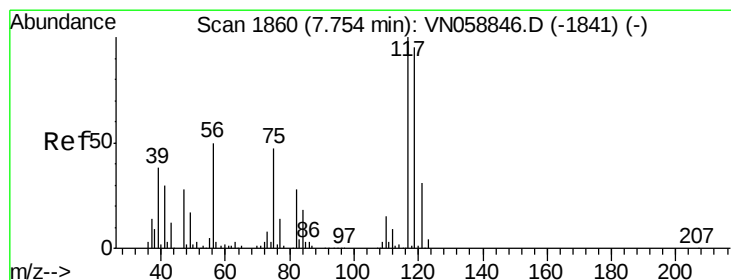
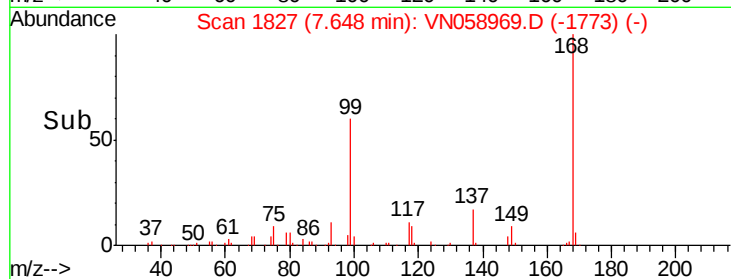
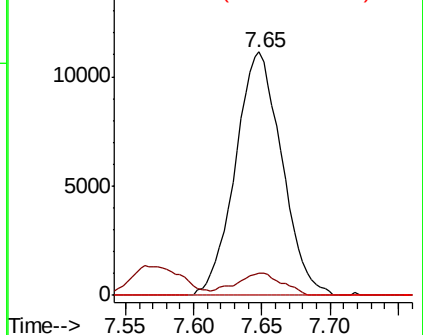
#36
 1,1-Dichloropropene
 Concen: 5.218 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058969.D
 Acq: 24 Oct 2019 18:08

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	16.3	48.9#
77	0.0	24.6	36.8#

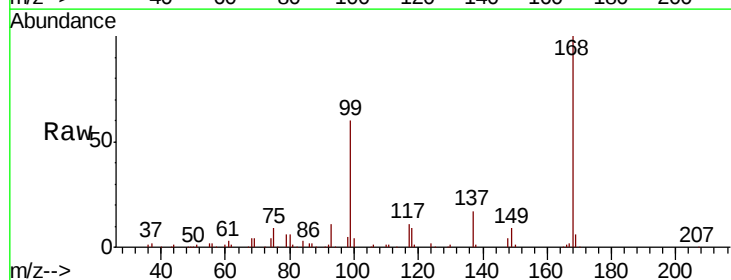


Abundance Ion 74.90 (74.60 to 75.60): VN058846.D (-1843) (-)
 Ion 109.90 (109.60 to 110.60): VN058846.D (-1843) (-)
 Ion 76.90 (76.60 to 77.60): VN058846.D (-1843) (-)

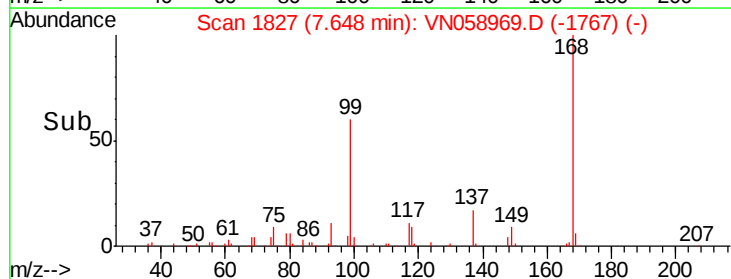
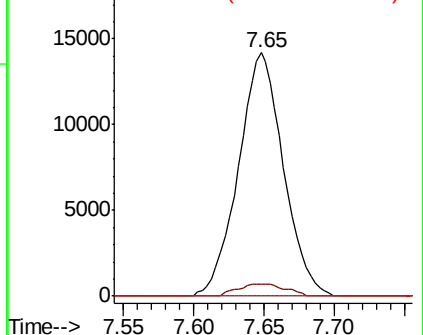


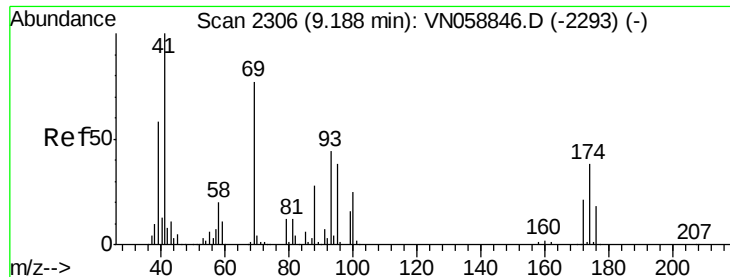
#38
 Carbon Tetrachloride
 Concen: 6.069 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058969.D
 Acq: 24 Oct 2019 18:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	75.7	113.5#
121	0.0	25.0	37.6#



Abundance Ion 116.80 (116.50 to 117.50): VN058846.D (-1841) (-)
 Ion 118.80 (118.50 to 119.50): VN058846.D (-1841) (-)
 Ion 120.80 (120.50 to 121.50): VN058846.D (-1841) (-)

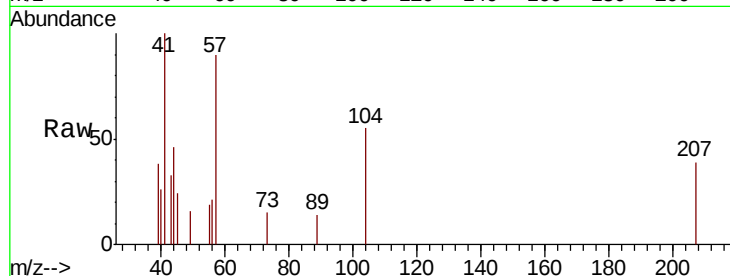




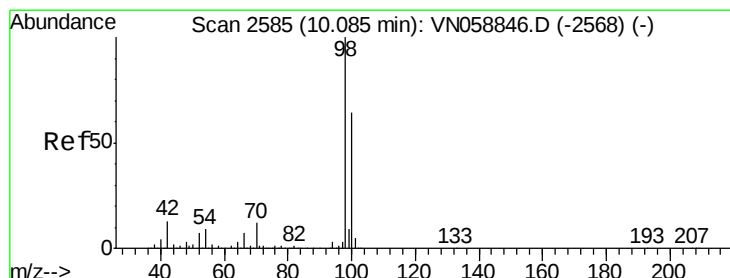
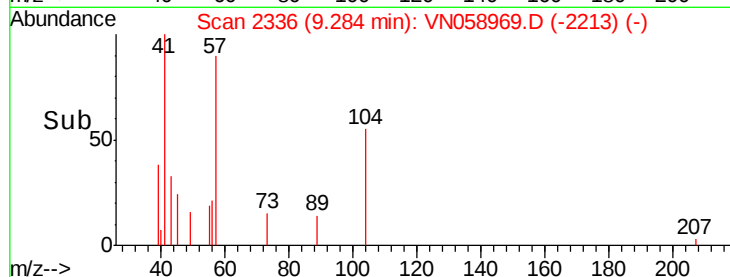
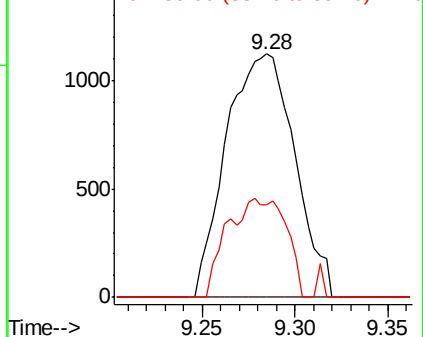
#48
Methvl methacrylate
Concen: 0.717 ug/l
RT: 9.28 min Scan# 2336
Delta R.T. 0.10 min
Lab File: VN058969.D
Acq: 24 Oct 2019 18:08

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 2870
Ion Ratio Lower Upper
41 100
69 0.0 63.8 95.6#
39 35.0 47.8 71.8#

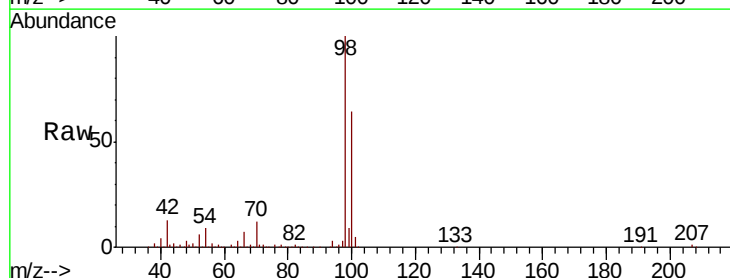


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

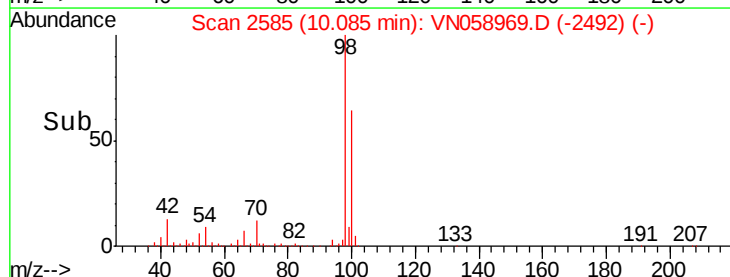
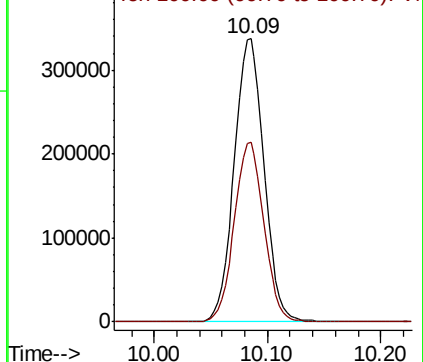


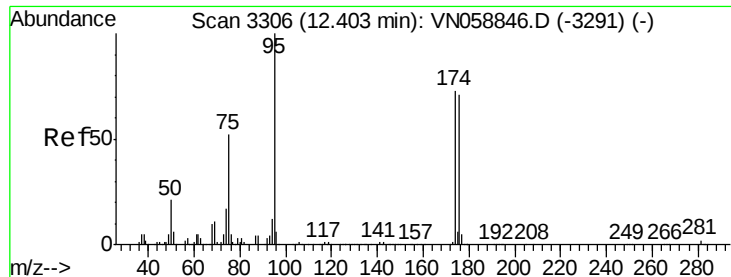
#50
Toluene-d8
Concen: 49.325 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058969.D
Acq: 24 Oct 2019 18:08

Tgt Ion: 98 Resp: 620698
Ion Ratio Lower Upper
98 100
100 63.1 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

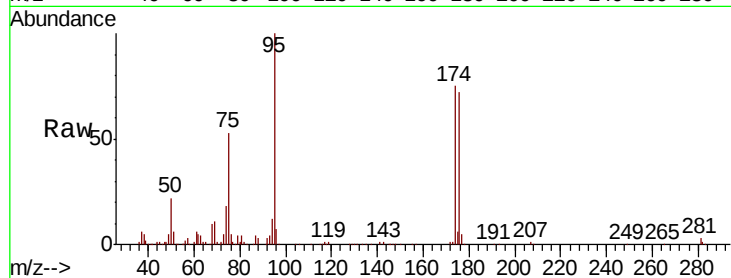




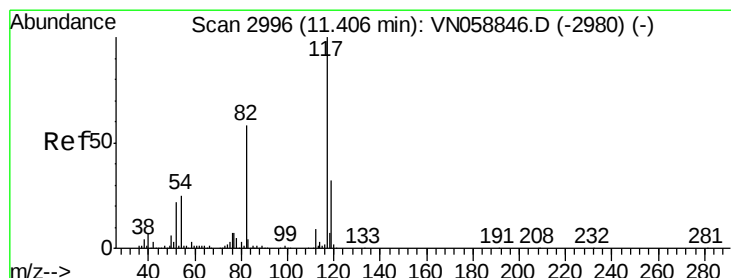
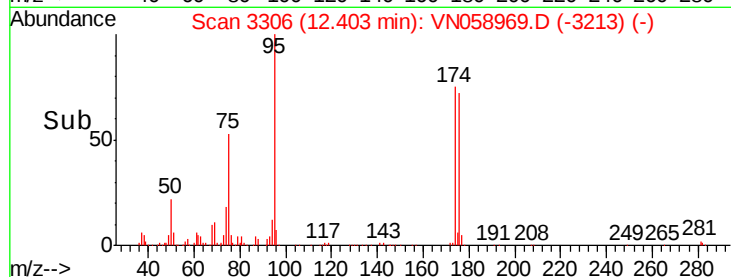
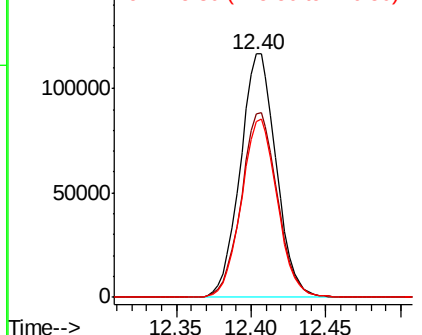
#62
4-Bromofluorobenzene
Concen: 42.241 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058969.D
Acq: 24 Oct 2019 18:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 95 Resp: 195201
Ion Ratio Lower Upper
95 100
174 76.4 0.0 147.6
176 73.1 0.0 143.2

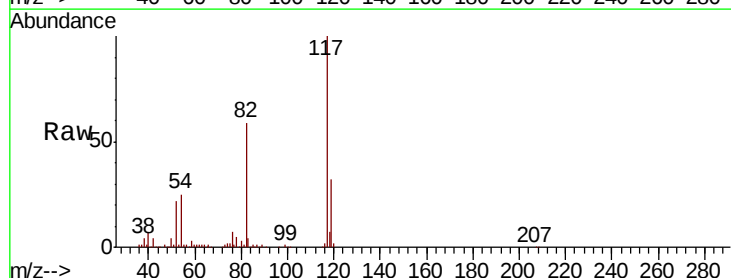


Abundance Ion 94.90 (94.60 to 95.60): VN058846.D (-3291) (-)
Ion 173.80 (173.50 to 174.50): VN058846.D (-3291) (-)
Ion 175.80 (175.50 to 176.50): VN058846.D (-3291) (-)

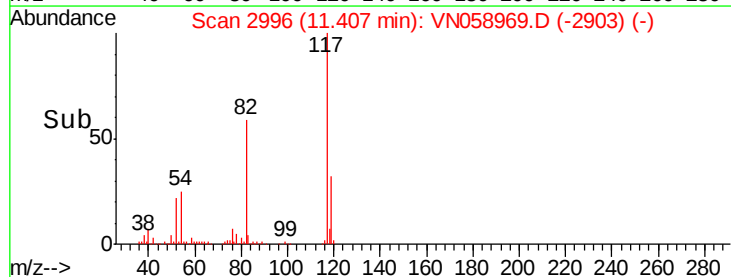
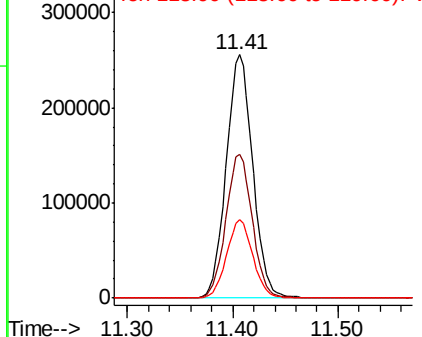


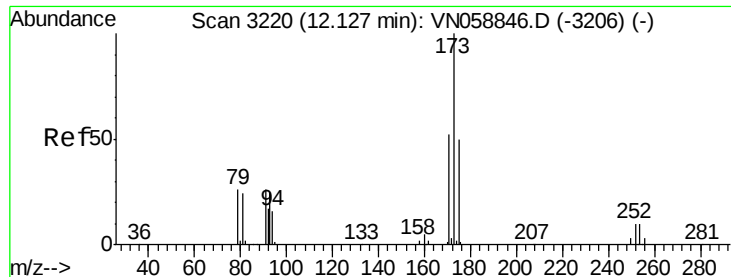
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058969.D
Acq: 24 Oct 2019 18:08

Tgt Ion: 117 Resp: 444508
Ion Ratio Lower Upper
117 100
82 59.3 46.6 69.8
119 32.0 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): VN058846.D (-2980) (-)
Ion 82.00 (81.70 to 82.70): VN058846.D (-2980) (-)
Ion 118.90 (118.60 to 119.60): VN058846.D (-2980) (-)

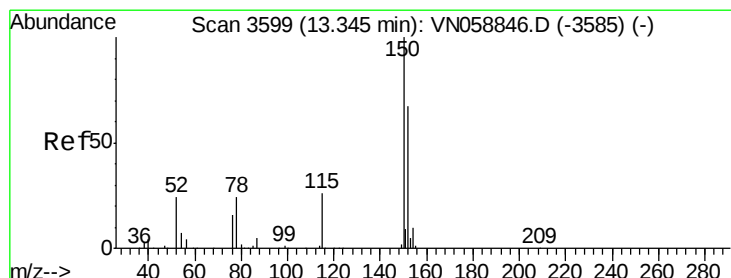
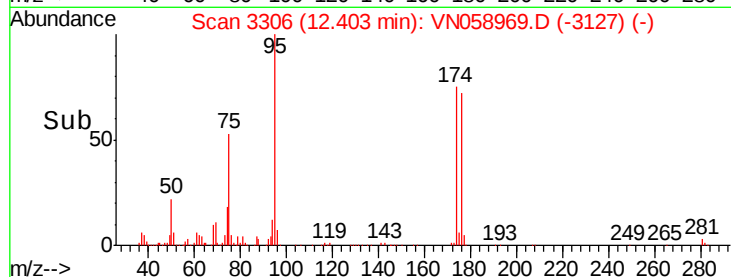
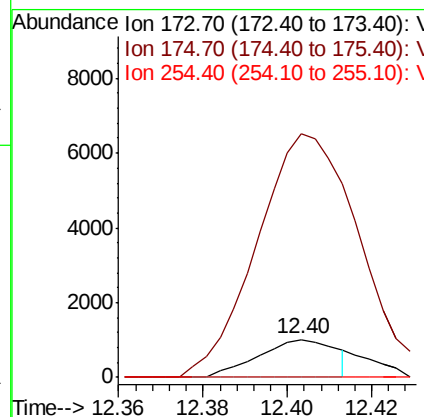
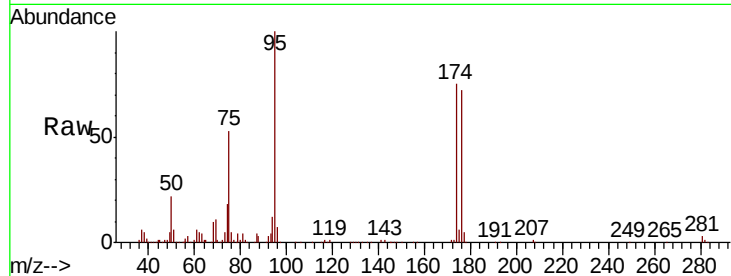




#71
Bromoform
Concen: 0.489 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN058969.D
Acq: 24 Oct 2019 18:08

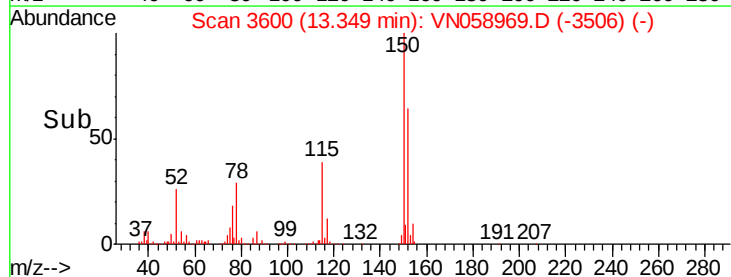
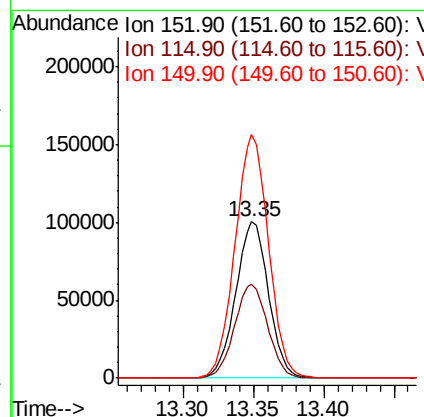
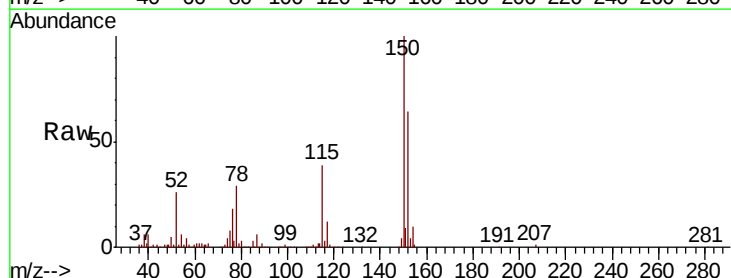
Instrument :
MSVOA_N
ClientSampleId :

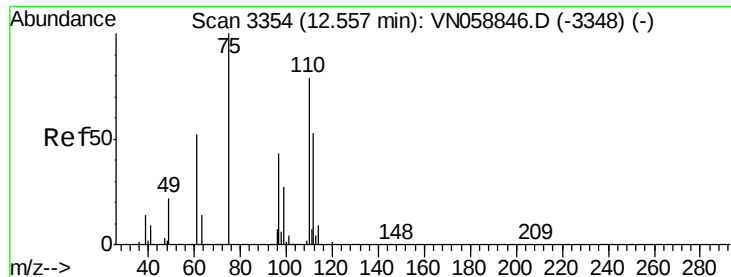
Tot Ion:173 Resp: 1294
Ion Ratio Lower Upper
173 100
175 677.7 24.7 74.1#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058969.D
Acq: 24 Oct 2019 18:08

Tgt Ion:152 Resp: 163782
Ion Ratio Lower Upper
152 100
115 60.7 30.5 91.5
150 158.5 0.0 344.4





#76

1,2,3-Trichloropropane

Concen: 27.605 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058969.D

Acq: 24 Oct 2019 18:08

Instrument :

MSVOA_N

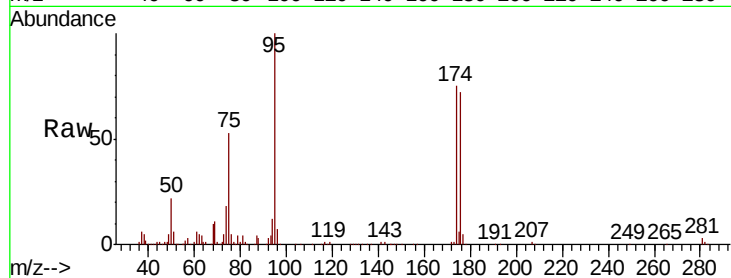
ClientSampleId :

Tot Ion: 75 Resp: 104783

Ion Ratio Lower Upper

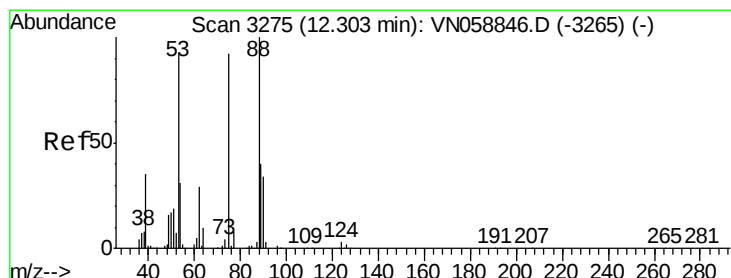
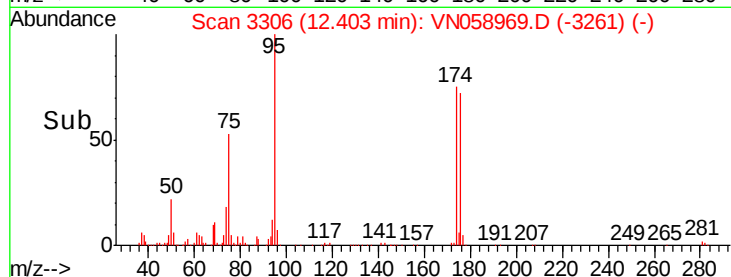
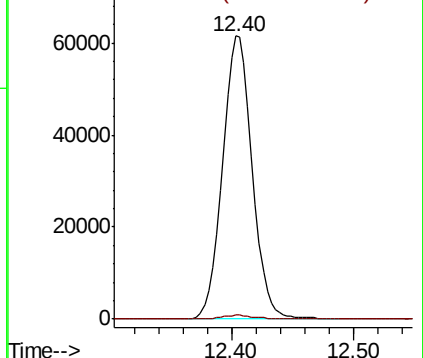
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 71.913 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058969.D

Acq: 24 Oct 2019 18:08

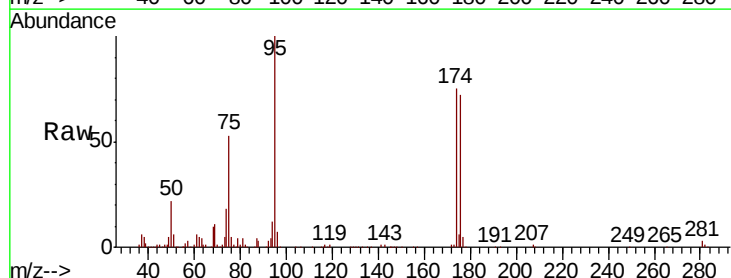
Tgt Ion: 75 Resp: 104783

Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

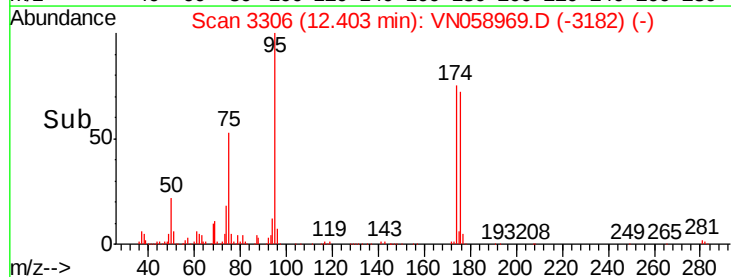
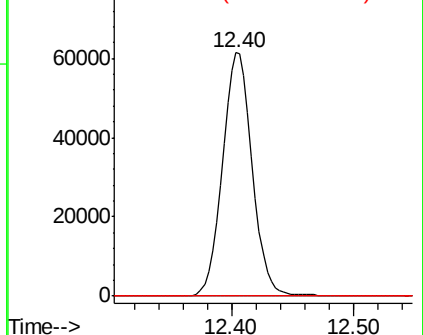
89 0.0 35.4 53.0#

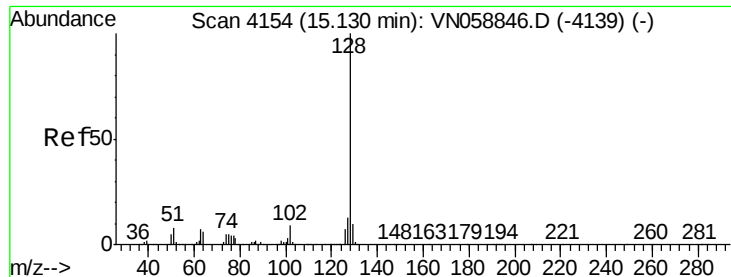


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

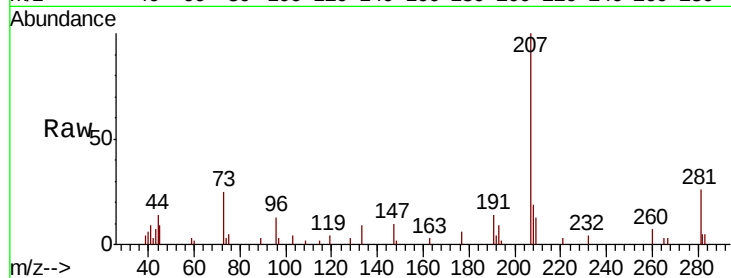




#95
Naphthalene
Concen: 2.244 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN058969.D
Acq: 24 Oct 2019 18:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	8.4	12.6#



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

