

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080519\
 Data File : VN057082.D
 Acq On : 5 Aug 2019 15:15
 Operator : JC/SP
 Sample : PB121997TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 06 01:10:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	568081	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	839057	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	703811	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	199094	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	276708	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	
35) Dibromofluoromethane	7.58	113	255389	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	
50) Toluene-d8	10.08	98	978115	47.75	ug/l	0.00
Spiked Amount			Recovery	=	95.50%	
62) 4-Bromofluorobenzene	12.40	95	263030	39.44	ug/l	0.00
Spiked Amount			Recovery	=	78.88%	

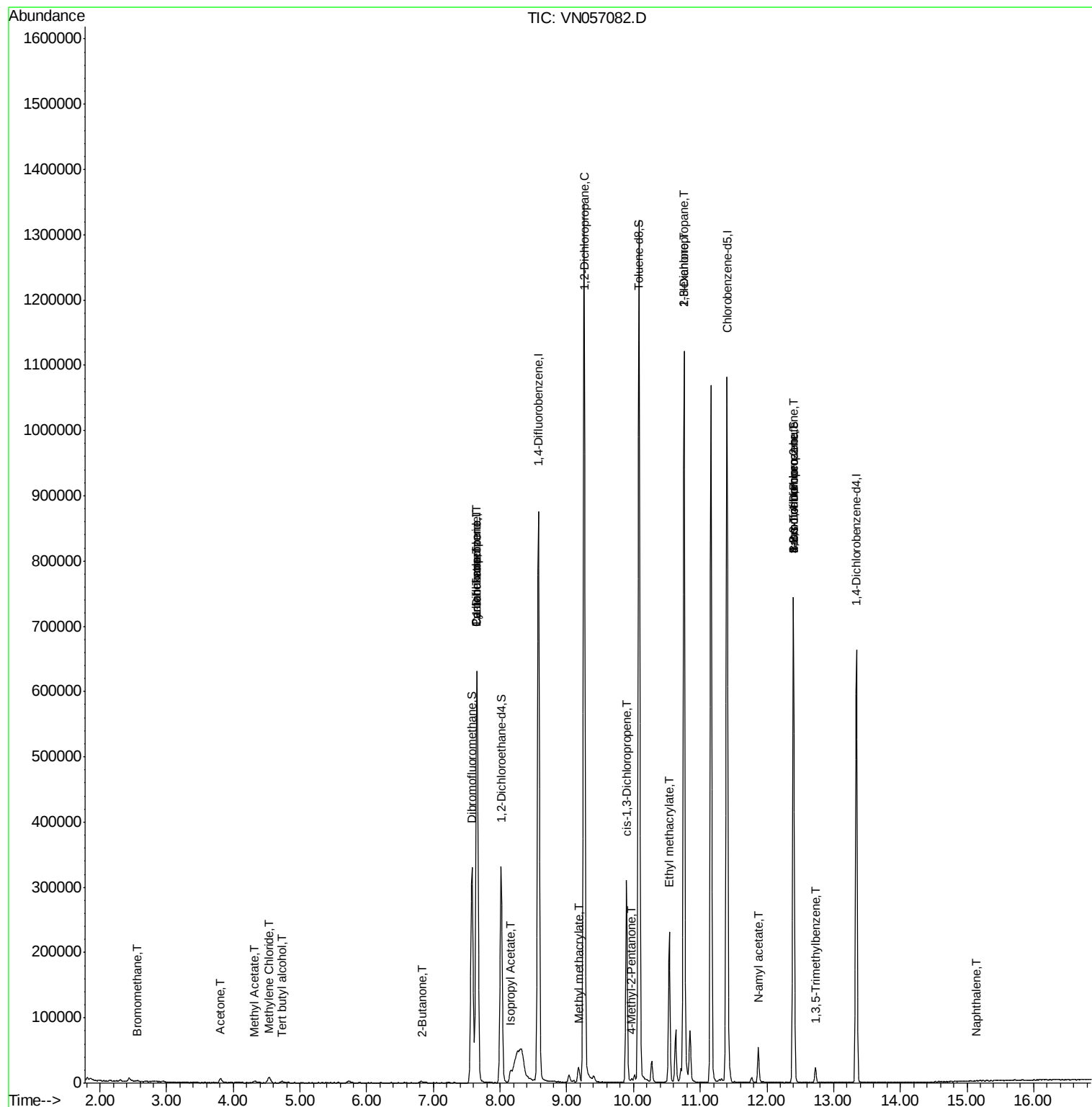
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	836	0.209	ug/l #	54
11) Tert butyl alcohol	4.72	59	1140	1.450	ug/l #	74
16) Acetone	3.81	43	12075	5.732	ug/l	93
18) Methyl Acetate	4.32	43	3677	0.547	ug/l #	79
20) Methylene Chloride	4.54	84	6922	1.141	ug/l #	91
25) 2-Butanone	6.83	43	1398	0.468	ug/l #	48
31) Cyclohexane	7.65	56	8275	0.866	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	34660	4.695	ug/l #	48
38) Carbon Tetrachloride	7.65	117	48339	6.922	ug/l #	17
43) Isopropyl Acetate	8.16	43	22611	2.313	ug/l #	89
45) 1,2-Dichloropropane	9.26	63	1899	0.312	ug/l #	44
48) Methyl methacrylate	9.17	41	8186	1.735	ug/l #	12
51) 4-Methyl-2-Pentanone	9.97	43	3812	0.656	ug/l	88
54) cis-1,3-Dichloropropene	9.90	75	61315	7.046	ug/l #	63
56) Ethyl methacrylate	10.54	69	1125	1.892	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	12230	1.346	ug/l #	42
59) 2-Hexanone	10.76	43	158979	37.694	ug/l #	51
71) Bromoform	12.40	173	2350	0.623	ug/l #	1
74) N-amyl acetate	11.87	43	16570	3.317	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	123157	30.460	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	13356	0.946	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	123157	97.866	ug/l #	15
95) Naphthalene	15.13	128	541	3.647	ug/l #	70

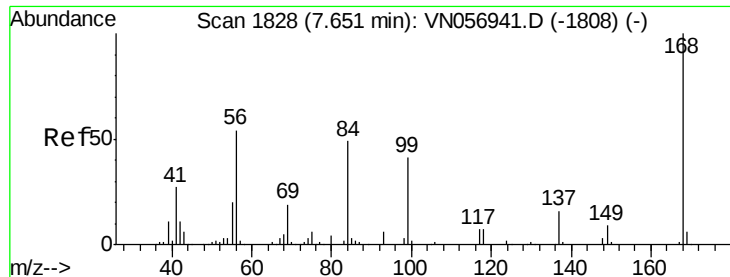
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jul 27 01:33:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057082.D

Acq: 5 Aug 2019 15:15

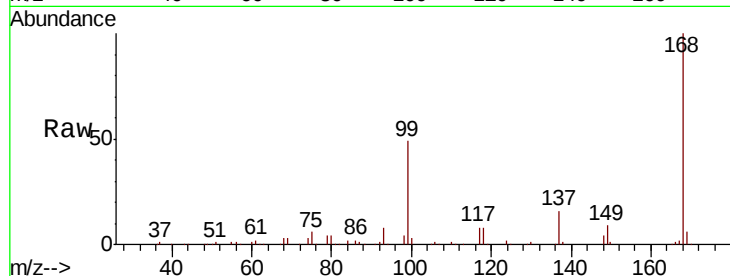
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 568081

Ion Ratio Lower Upper

168 100

99 48.6 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

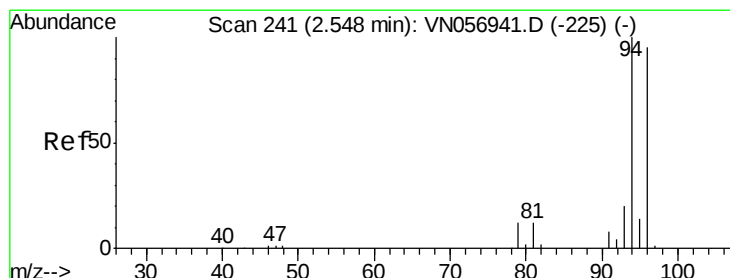
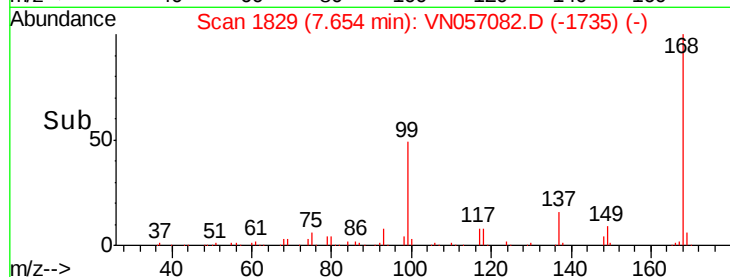
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.209 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.01 min

Lab File: VN057082.D

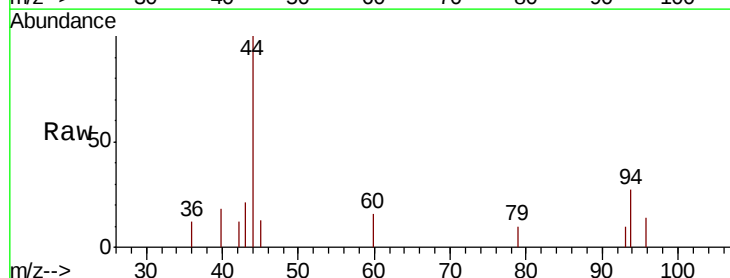
Acq: 5 Aug 2019 15:15

Tgt Ion: 94 Resp: 836

Ion Ratio Lower Upper

94 100

96 50.6 76.2 114.2#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

500

400

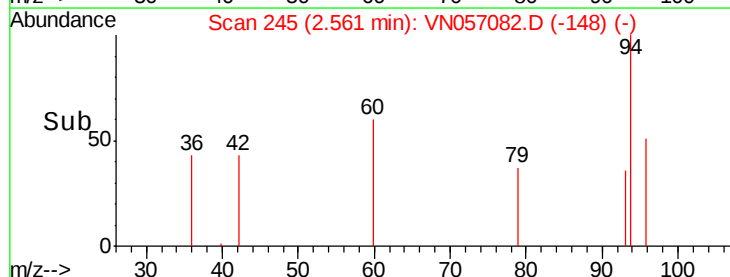
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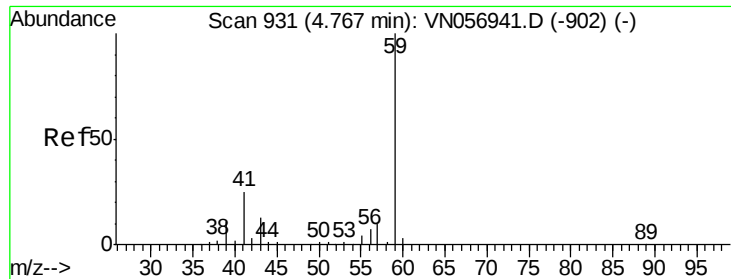
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100

0

Time-->

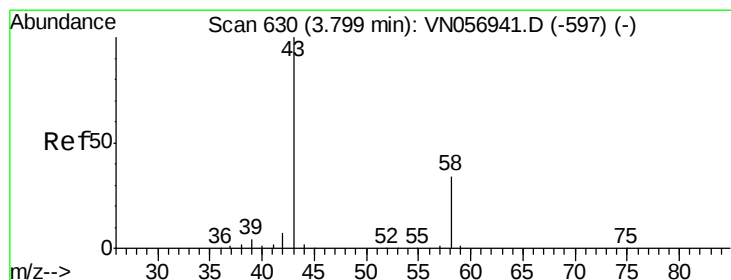
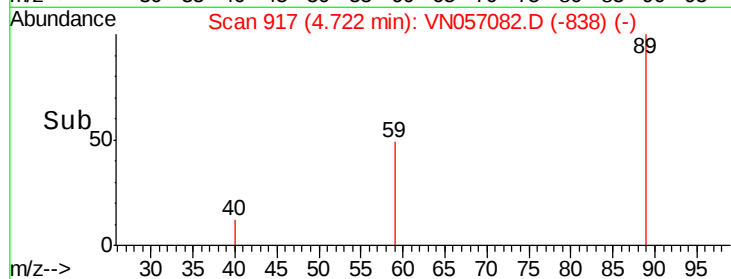
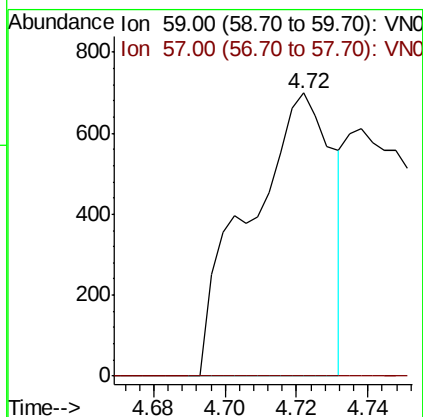
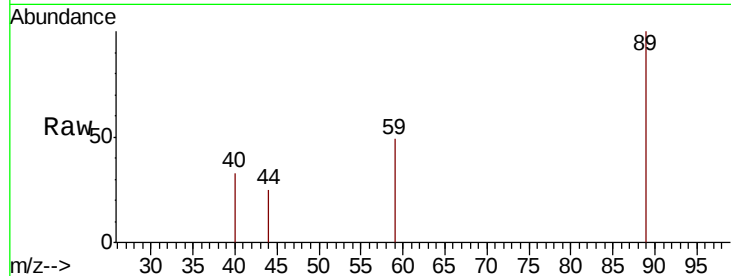




#11
Tert butyl alcohol
Concen: 1.450 ug/l
RT: 4.72 min Scan# 917
Delta R.T. -0.04 min
Lab File: VN057082.D
Acq: 5 Aug 2019 15:15

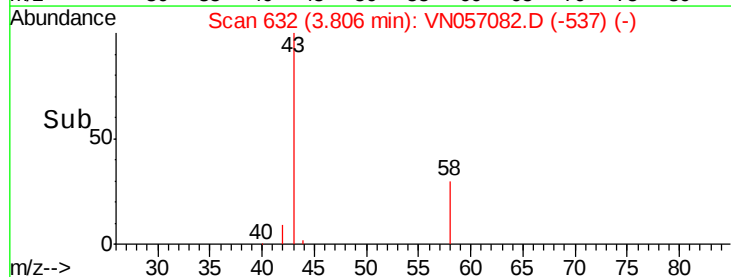
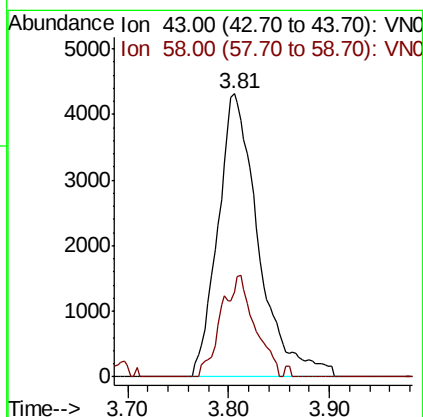
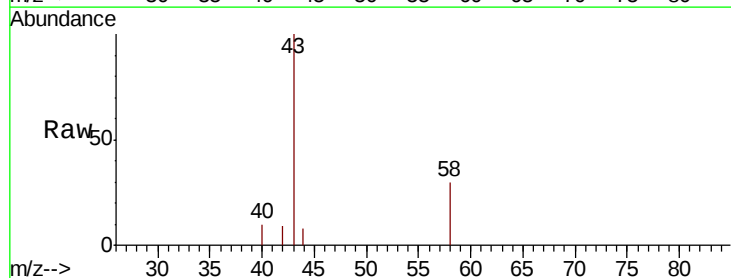
Instrument :
MSVOA_N
ClientSampleId :

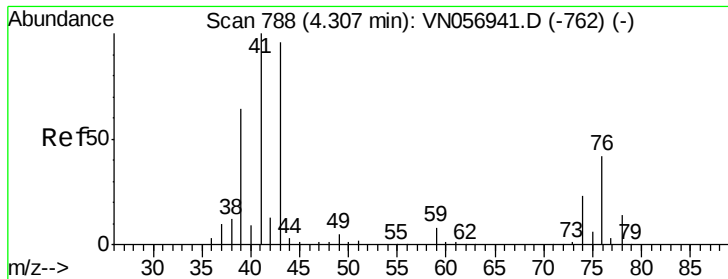
Tot Ion: 59 Resp: 1140
Ion Ratio Lower Upper
59 100
57 0.0 7.5 11.3#



#16
Acetone
Concen: 5.732 ug/l
RT: 3.81 min Scan# 632
Delta R.T. 0.01 min
Lab File: VN057082.D
Acq: 5 Aug 2019 15:15

Tgt Ion: 43 Resp: 12075
Ion Ratio Lower Upper
43 100
58 30.1 27.2 40.8

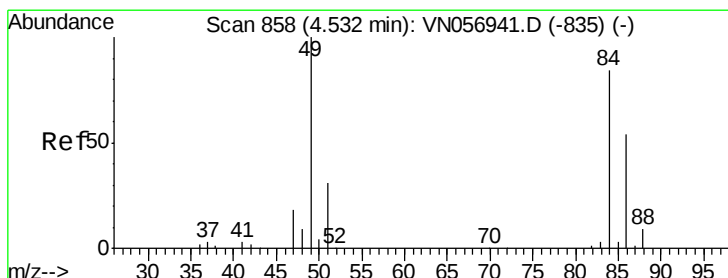
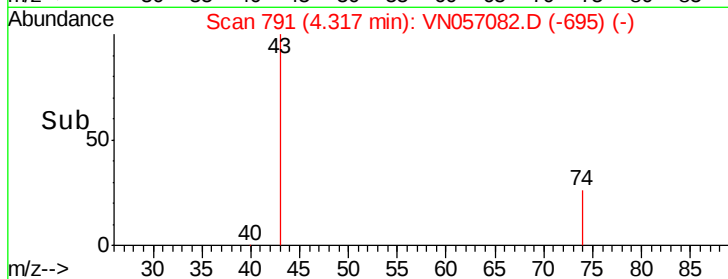
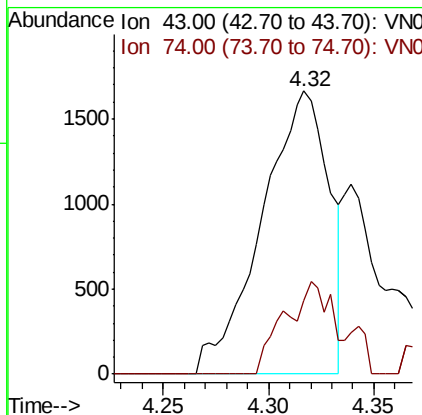
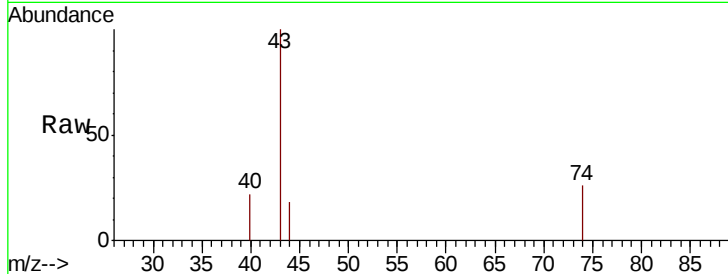




#18
Methyl Acetate
Concen: 0.547 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN057082.D
Acq: 5 Aug 2019 15:15

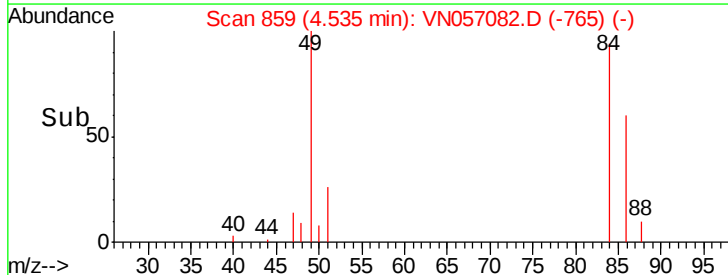
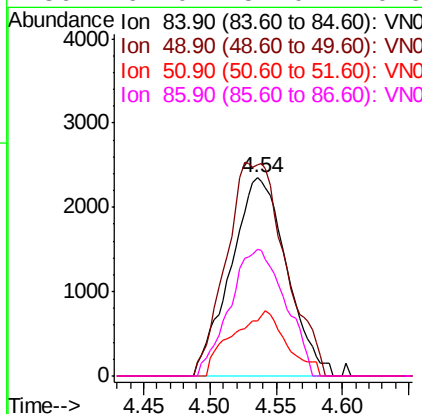
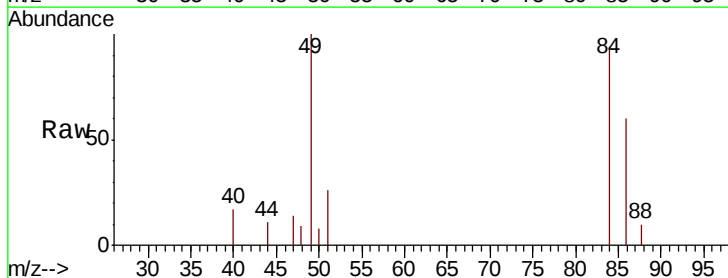
Instrument :
MSVOA_N
ClientSampled :

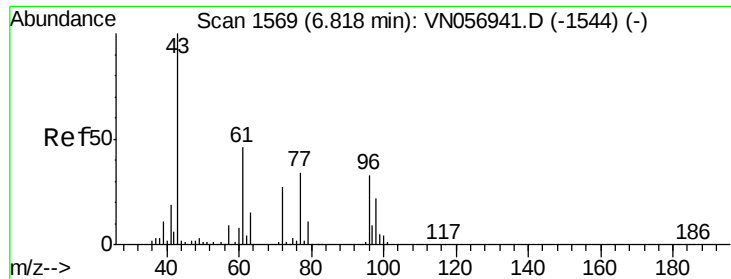
Tot Ion: 43 Resp: 3677
Ion Ratio Lower Upper
43 100
74 14.3 19.7 29.5#



#20
Methylene Chloride
Concen: 1.141 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN057082.D
Acq: 5 Aug 2019 15:15

Tgt Ion: 84 Resp: 6922
Ion Ratio Lower Upper
84 100
49 106.3 95.2 142.8
51 27.6 29.7 44.5#
86 64.0 51.0 76.6

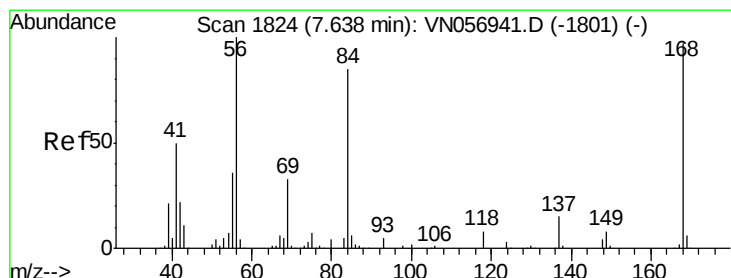
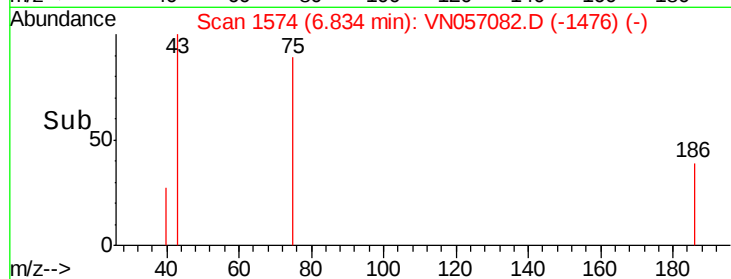
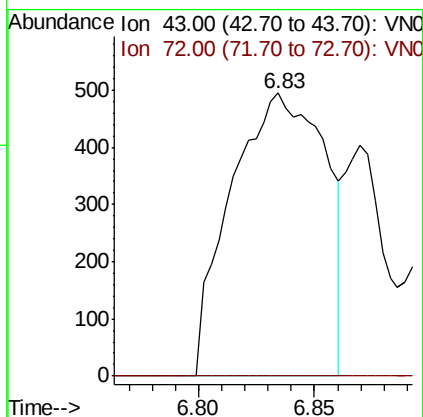
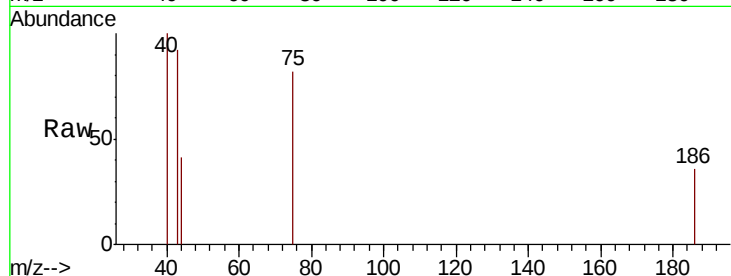




#25
2-Butanone
Concen: 0.468 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN057082.D
Acq: 5 Aug 2019 15:15

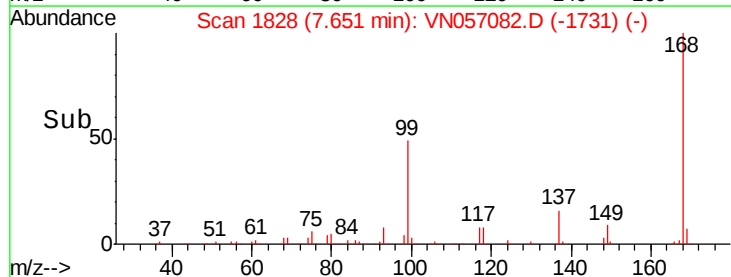
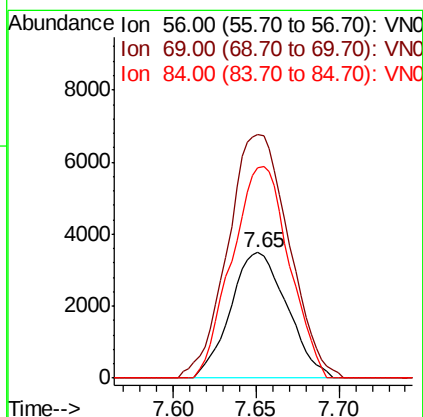
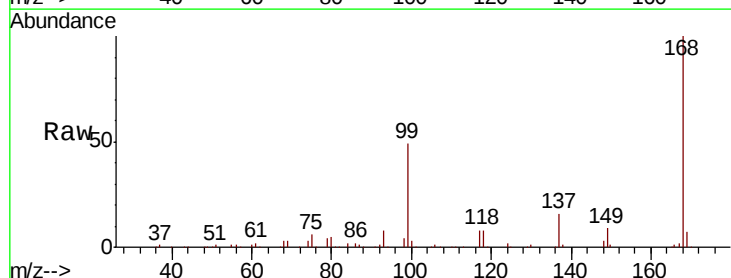
Instrument :
MSVOA_N
ClientSampled :

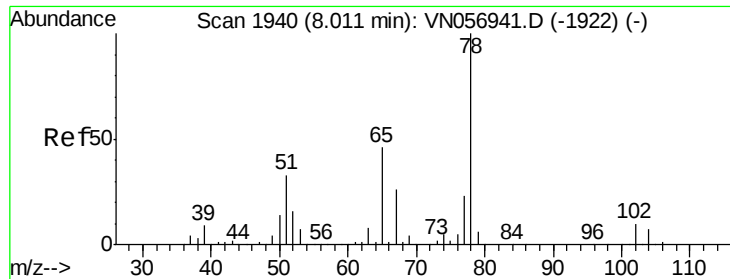
Tot Ion: 43 Resp: 1398
Ion Ratio Lower Upper
43 100
72 0.0 21.5 32.3#



#31
Cyclohexane
Concen: 0.866 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057082.D
Acq: 5 Aug 2019 15:15

Tgt Ion: 56 Resp: 8275
Ion Ratio Lower Upper
56 100
69 189.1 26.2 39.2#
84 167.4 68.2 102.2#

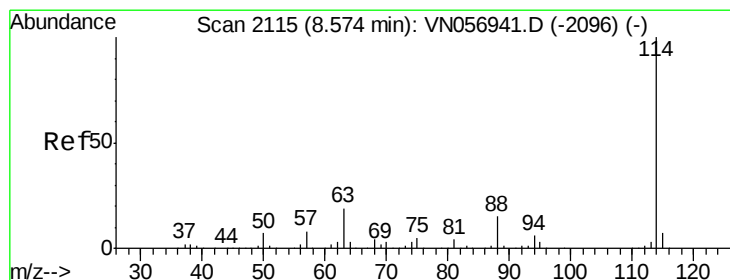
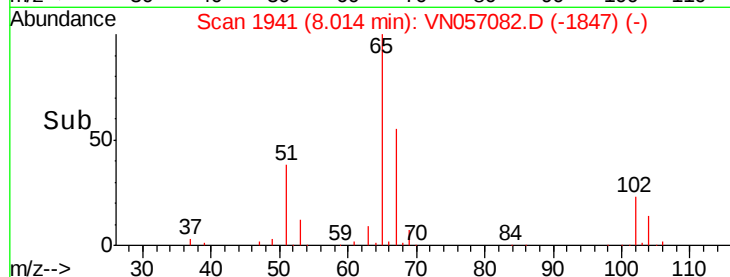
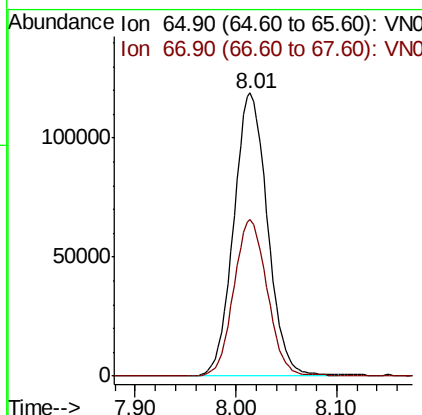
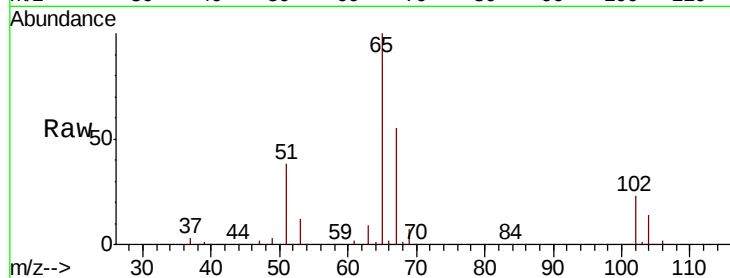




#33
 1,2-Dichloroethane-d4
 Concen: 47.584 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057082.D
 Acq: 5 Aug 2019 15:15

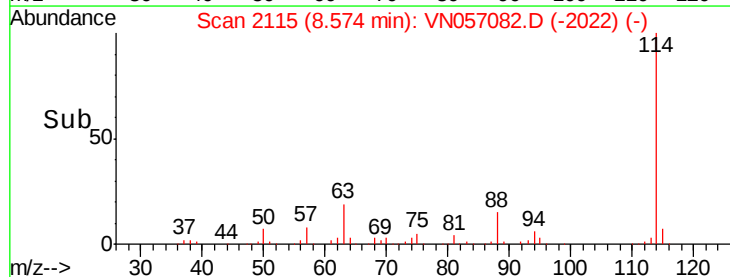
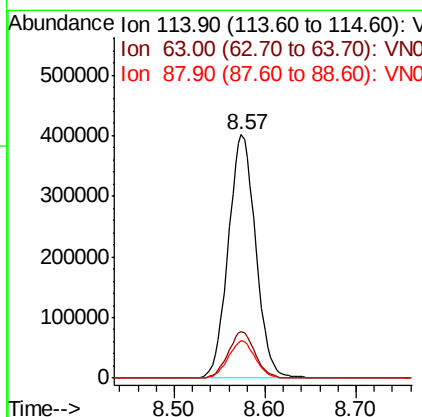
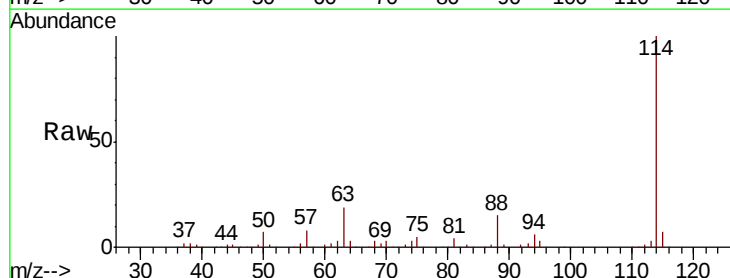
Instrument :
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 ClientSampleId :

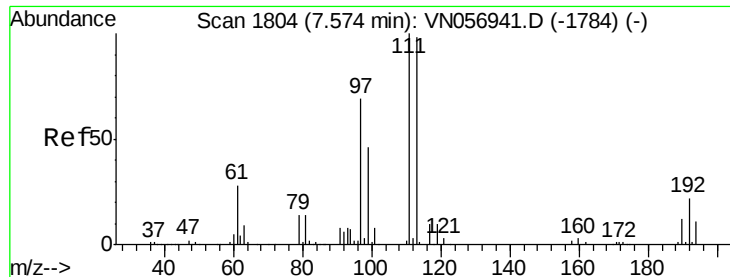
Tot Ion: 65 Resp: 276708
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057082.D
 Acq: 5 Aug 2019 15:15

Tgt Ion: 114 Resp: 839057
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 38.0
 88 15.2 0.0 30.0

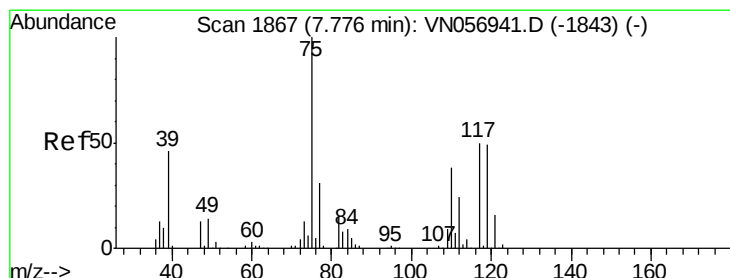
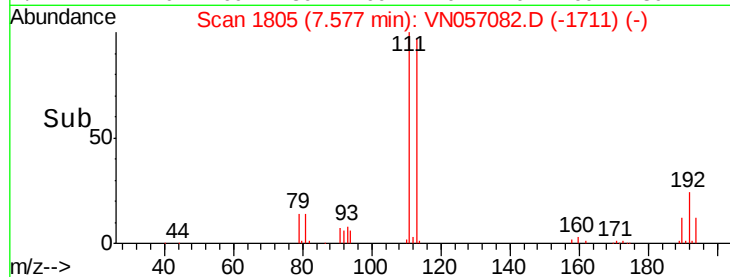
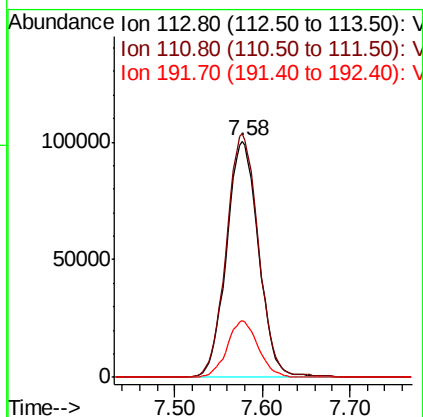
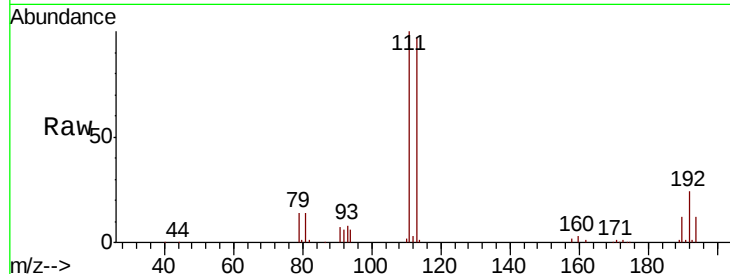




#35
 Dibromofluoromethane
 Concen: 47.546 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057082.D
 Acq: 5 Aug 2019 15:15

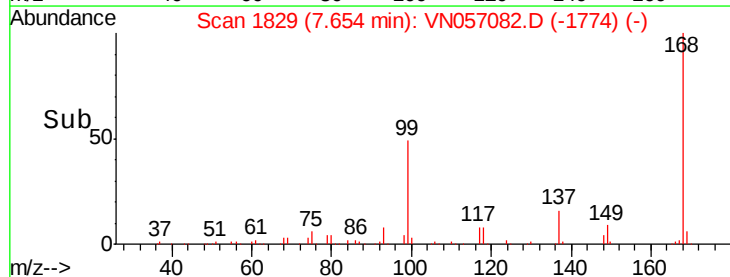
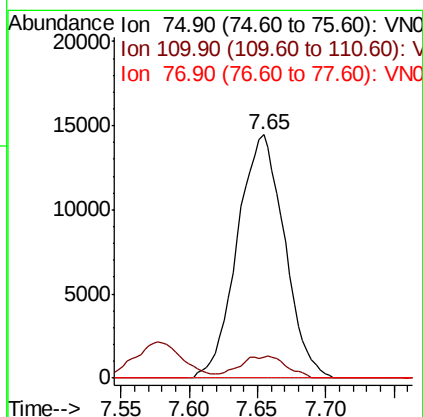
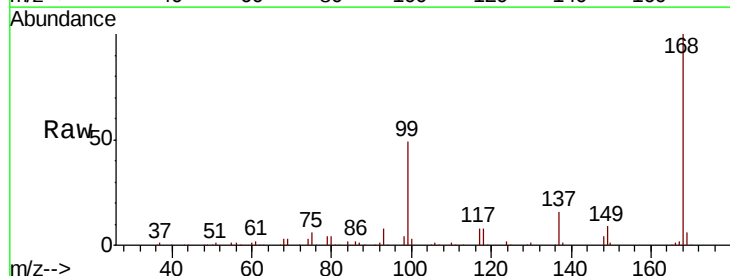
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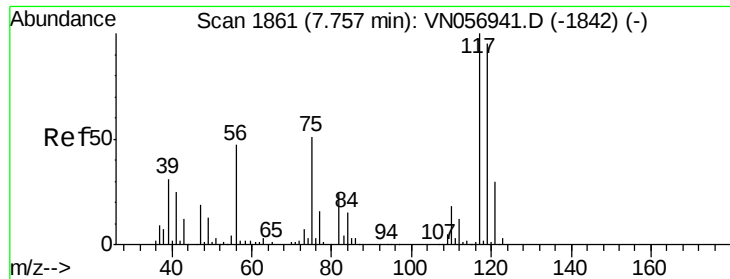
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.0	123.0
192	23.2	18.4	27.6



#36
 1,1-Dichloropropene
 Concen: 4.695 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057082.D
 Acq: 5 Aug 2019 15:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.6	55.8#
77	0.0	25.2	37.8#





#38

Carbon Tetrachloride

Concen: 6.922 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057082.D

Acq: 5 Aug 2019 15:15

Instrument :

MSVOA_N

ClientSampled :

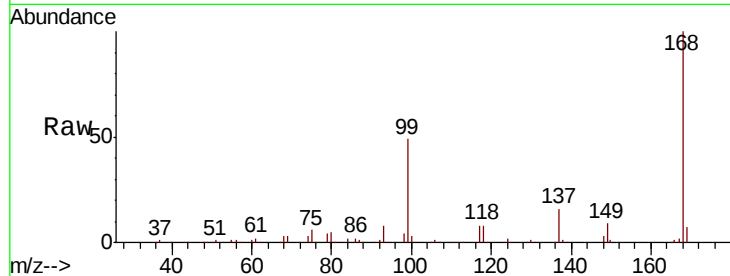
Tot Ion:117 Resp: 48339

Ion Ratio Lower Upper

117 100

119 5.6 75.3 112.9#

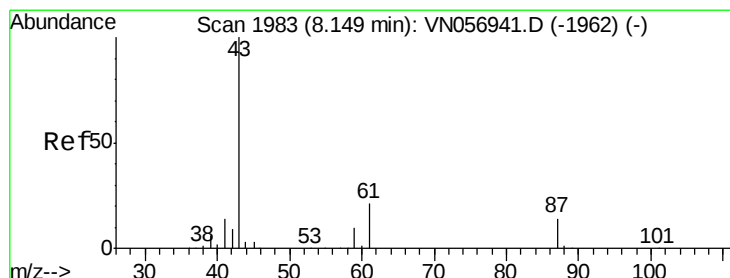
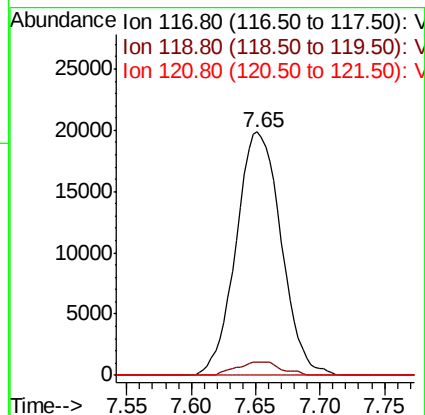
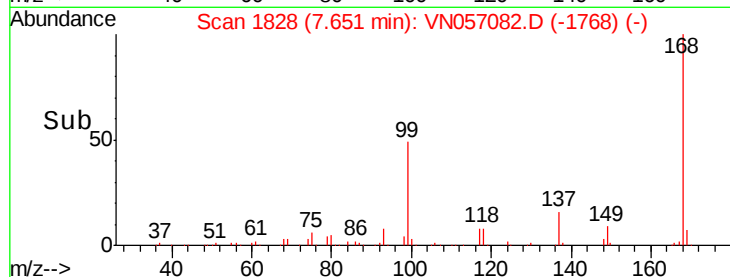
121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.313 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VN057082.D

Acq: 5 Aug 2019 15:15

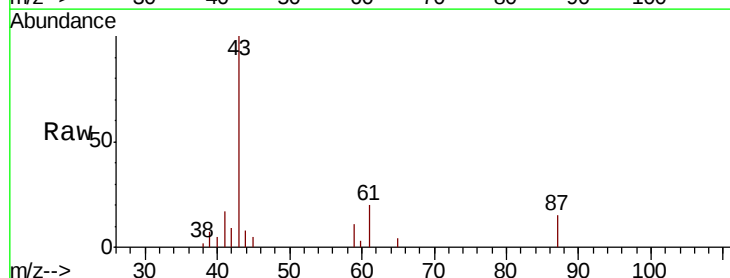
Tgt Ion: 43 Resp: 22611

Ion Ratio Lower Upper

43 100

61 21.0 23.0 34.6#

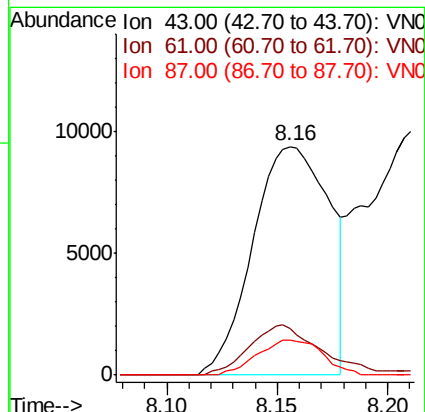
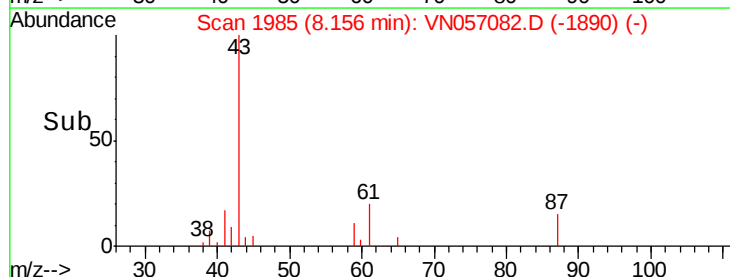
87 13.1 11.7 17.5

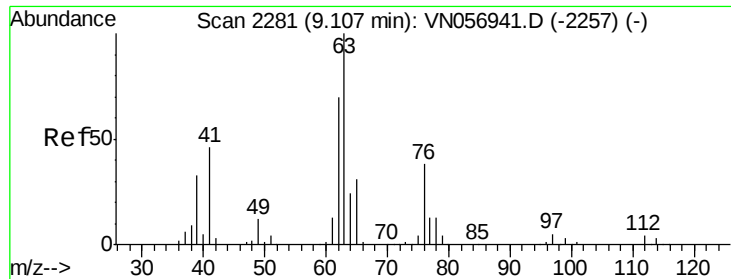


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

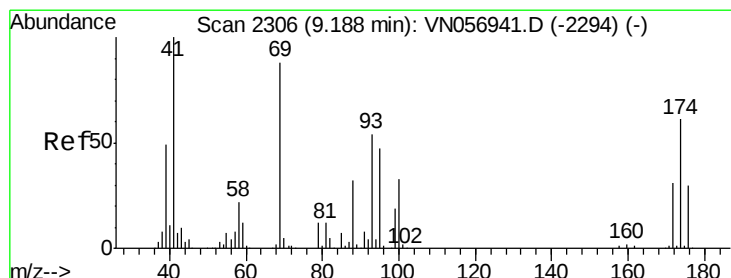
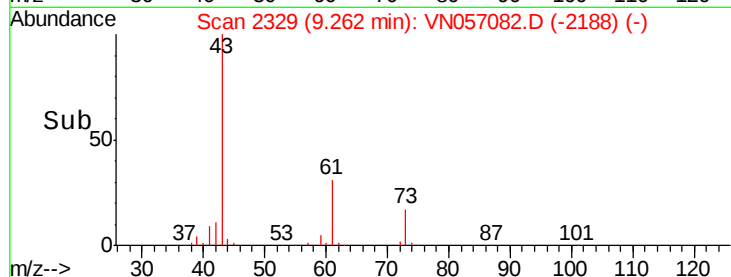
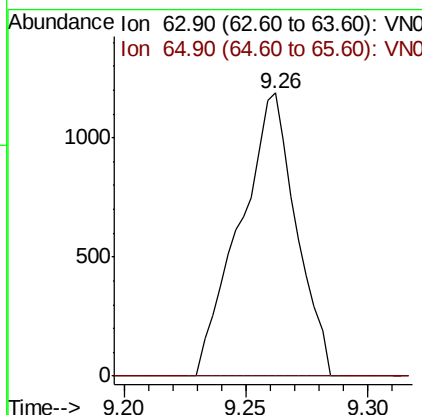
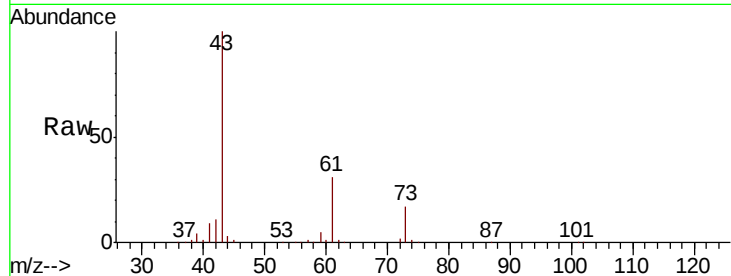




#45
 1,2-Dichloropropane
 Concen: 0.312 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN057082.D
 Acq: 5 Aug 2019 15:15

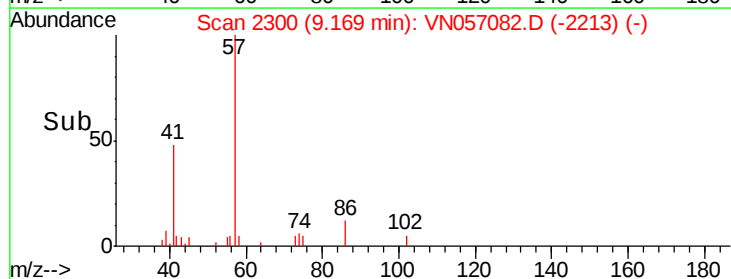
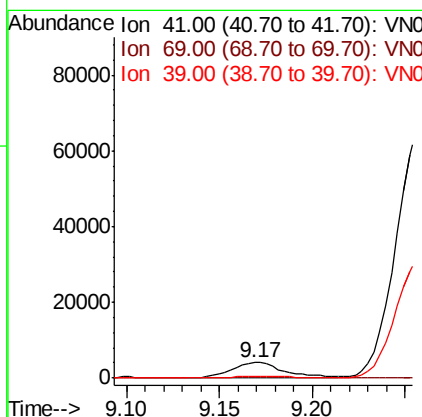
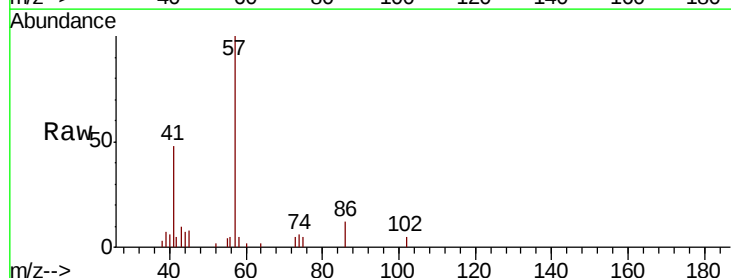
Instrument :
 MSVOA_N
 ClientSampled :

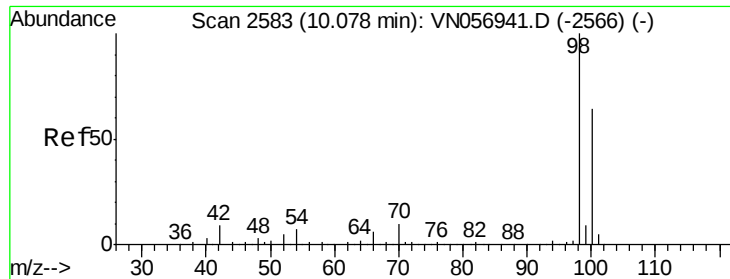
Tot Ion: 63 Resp: 1899
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 1.735 ug/l
 RT: 9.17 min Scan# 2300
 Delta R.T. -0.02 min
 Lab File: VN057082.D
 Acq: 5 Aug 2019 15:15

Tgt Ion: 41 Resp: 8186
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.4 110.0#
 39 0.0 39.9 59.9#





#50

Toluene-d8

Concen: 47.751 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN057082.D

Acq: 5 Aug 2019 15:15

Instrument :

MSVOA_N

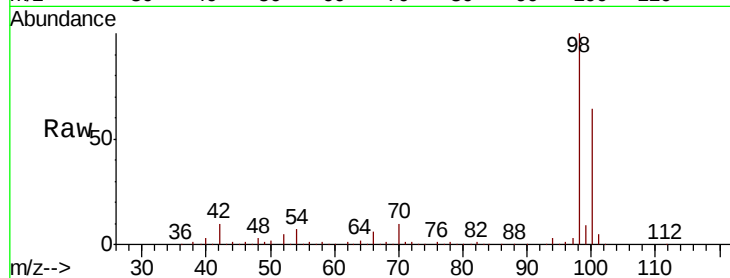
ClientSampled :

Tot Ion: 98 Resp: 978115

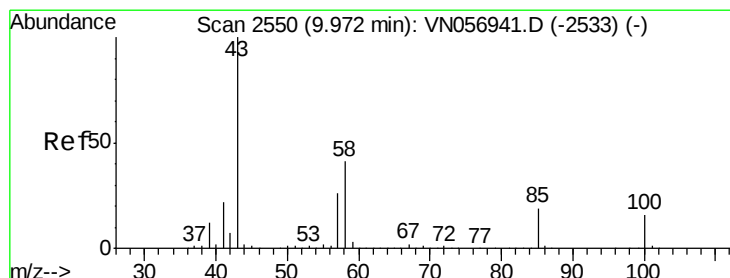
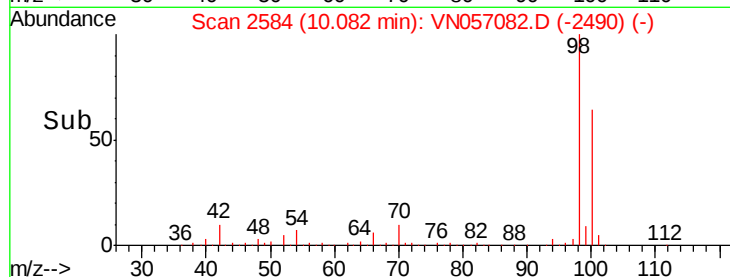
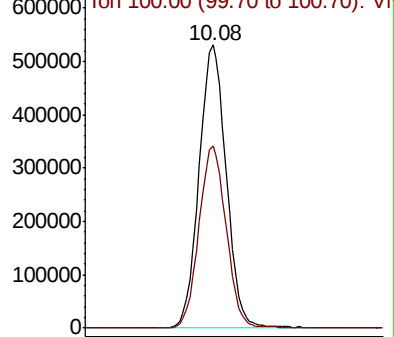
Ion Ratio Lower Upper

98 100

100 64.7 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN056941.D (-2566) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.656 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN057082.D

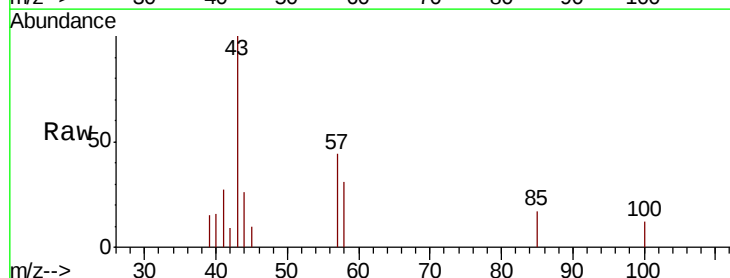
Acq: 5 Aug 2019 15:15

Tgt Ion: 43 Resp: 3812

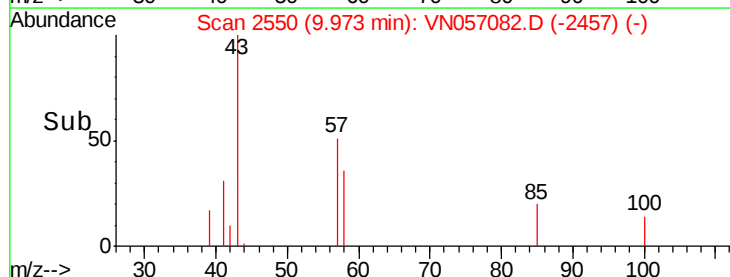
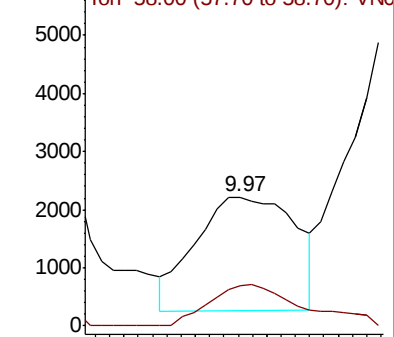
Ion Ratio Lower Upper

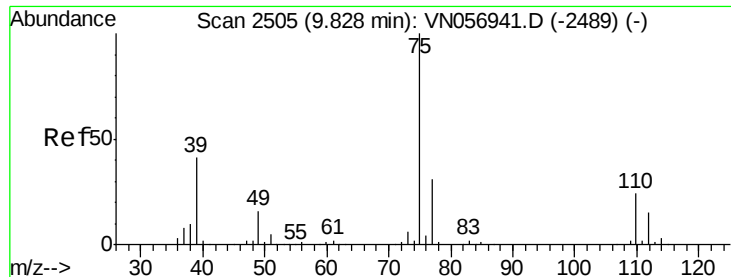
43 100

58 33.7 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VN056941.D (-2533) (-)



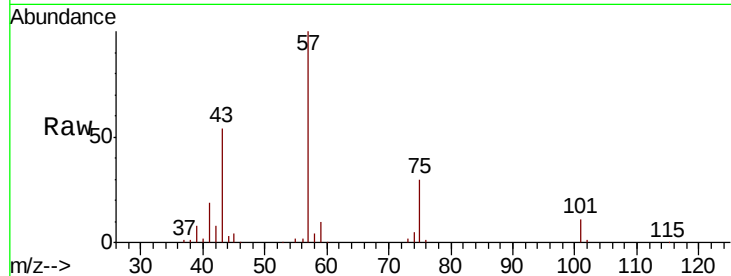


#54

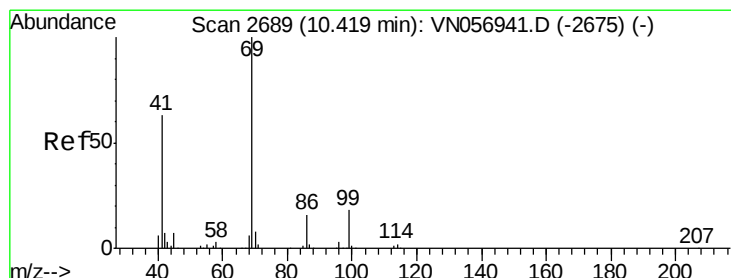
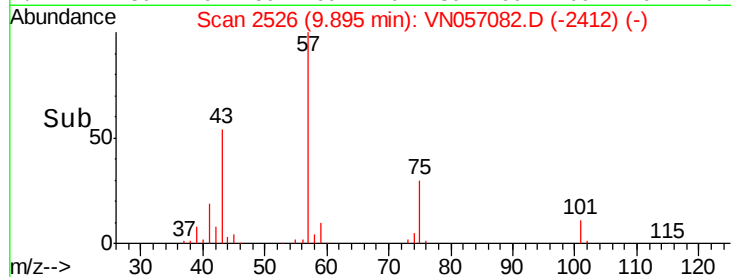
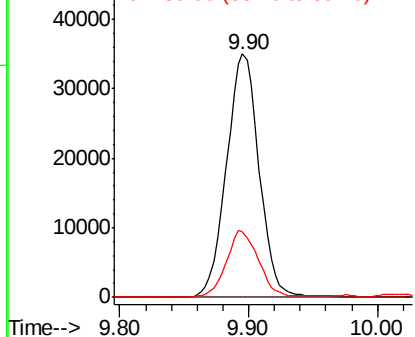
cis-1,3-Dichloropropene
 Concen: 7.046 ug/l
 RT: 9.90 min Scan# 2526
 Delta R.T. 0.07 min
 Lab File: VN057082.D
 Acq: 5 Aug 2019 15:15

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 61315
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 27.2 32.6 49.0#



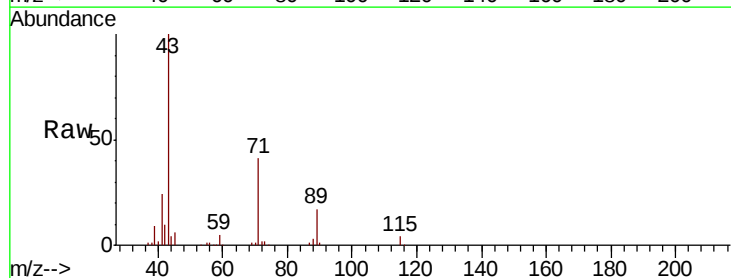
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



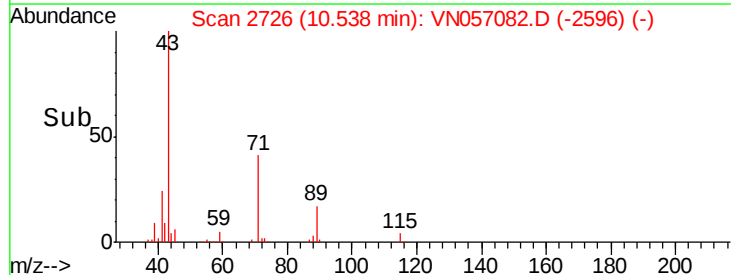
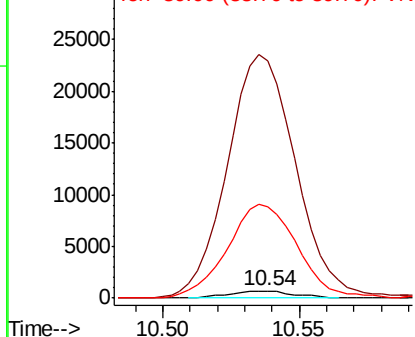
#56

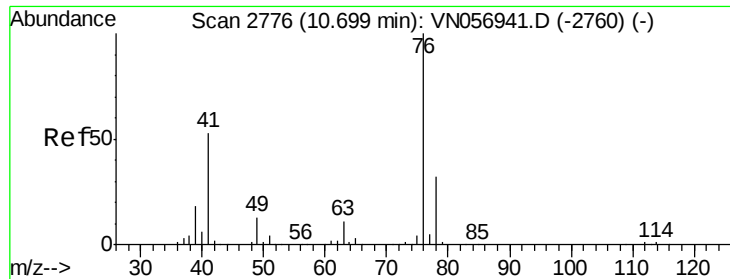
Ethyl methacrylate
 Concen: 1.892 ug/l
 RT: 10.54 min Scan# 2726
 Delta R.T. 0.12 min
 Lab File: VN057082.D
 Acq: 5 Aug 2019 15:15

Tgt Ion: 69 Resp: 1125
 Ion Ratio Lower Upper
 69 100
 41 3678.6 49.2 73.8#
 39 1437.0 23.1 34.7#



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

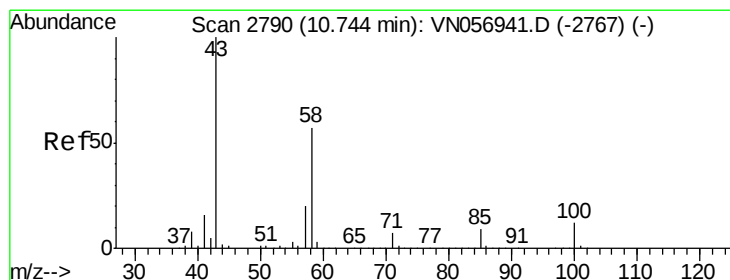
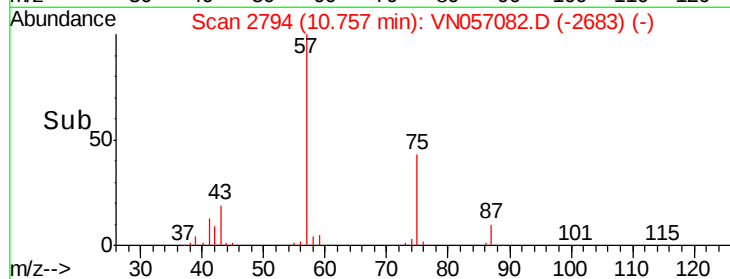
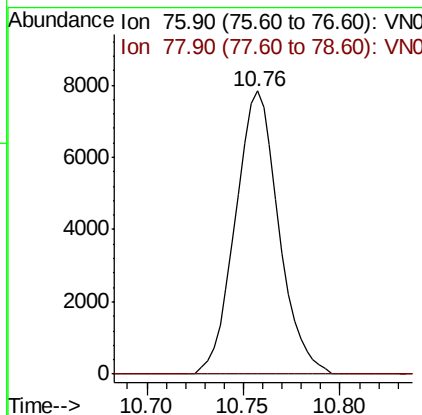
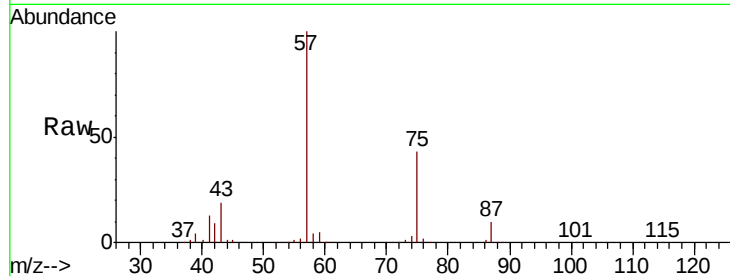




#57
 1,3-Dichloropropane
 Concen: 1.346 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.06 min
 Lab File: VN057082.D
 Acq: 5 Aug 2019 15:15

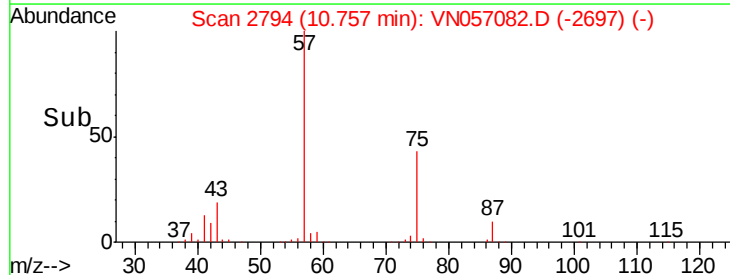
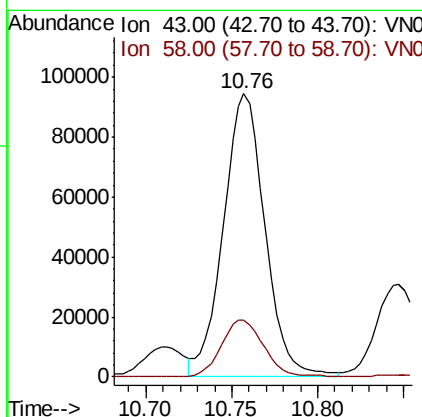
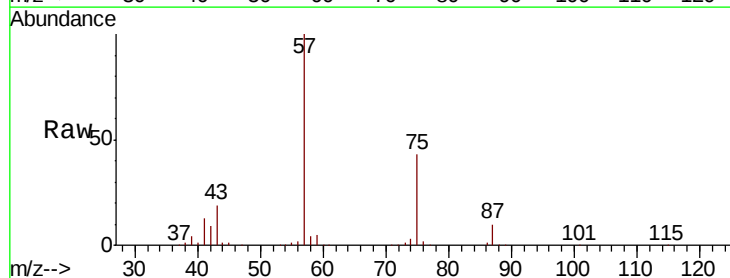
Instrument :
 MSVOA_N
 ClientSampleId :

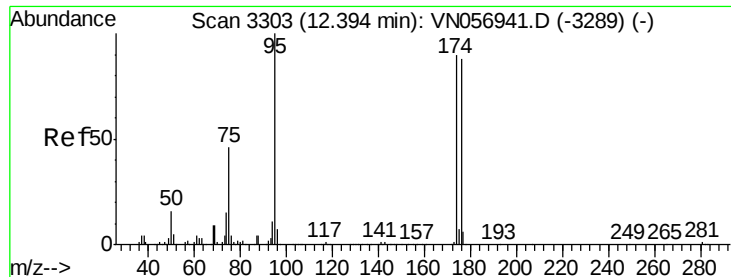
Tot Ion: 76 Resp: 12230
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.9 38.9#



#59
 2-Hexanone
 Concen: 37.694 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.01 min
 Lab File: VN057082.D
 Acq: 5 Aug 2019 15:15

Tgt Ion: 43 Resp: 158979
 Ion Ratio Lower Upper
 43 100
 58 20.7 28.5 85.5#





#62

4-Bromofluorobenzene

Concen: 39.445 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN057082.D

Acq: 5 Aug 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

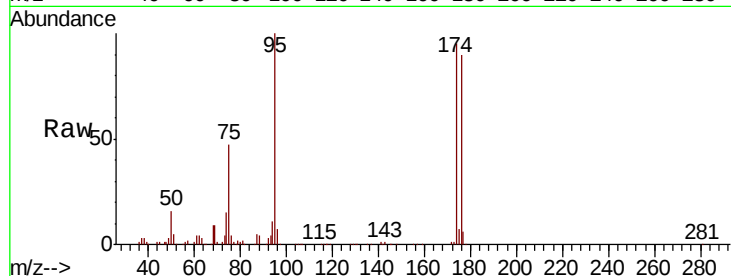
Tot Ion: 95 Resp: 263030

Ion Ratio Lower Upper

95 100

174 96.1 0.0 182.2

176 91.5 0.0 179.4



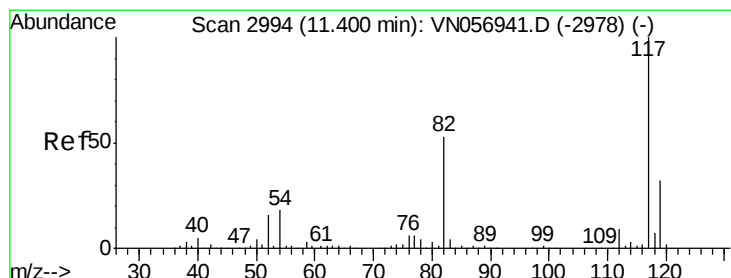
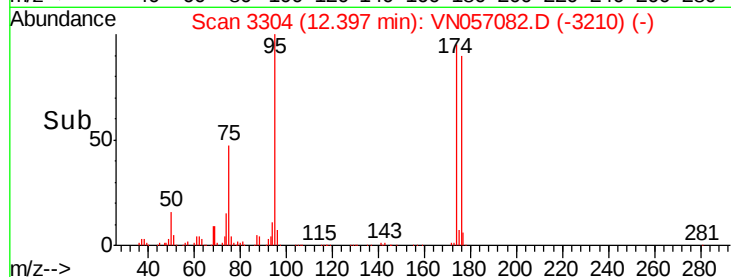
Abundance Ion 94.90 (94.60 to 95.60): VN056941.D (-3289) (-)

Ion 173.80 (173.50 to 174.50): VN056941.D (-3289) (-)

Ion 175.80 (175.50 to 176.50): VN056941.D (-3289) (-)

12.40

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN057082.D

Acq: 5 Aug 2019 15:15

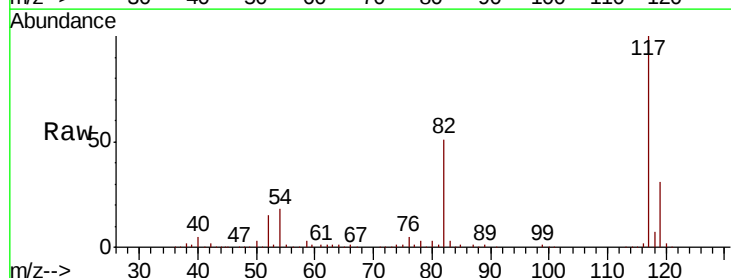
Tgt Ion: 117 Resp: 703811

Ion Ratio Lower Upper

117 100

82 51.0 42.2 63.4

119 31.5 25.8 38.6



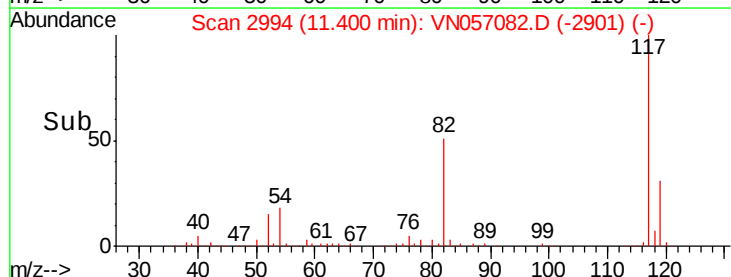
Abundance Ion 116.90 (116.60 to 117.60): VN056941.D (-2978) (-)

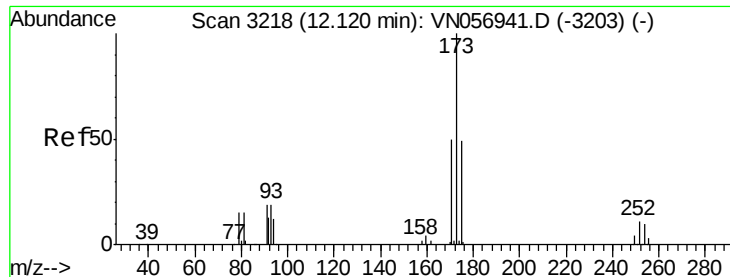
Ion 82.00 (81.70 to 82.70): VN056941.D (-2978) (-)

Ion 118.90 (118.60 to 119.60): VN056941.D (-2978) (-)

11.40

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.623 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN057082.D

Acq: 5 Aug 2019 15:15

Instrument :

MSVOA_N

ClientSampled :

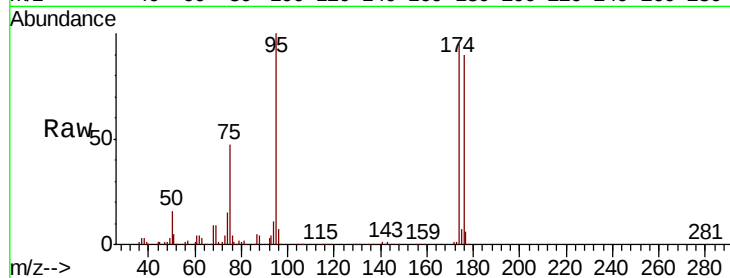
Tot Ion:173 Resp: 2350

Ion Ratio Lower Upper

173 100

175 624.3 24.1 72.4#

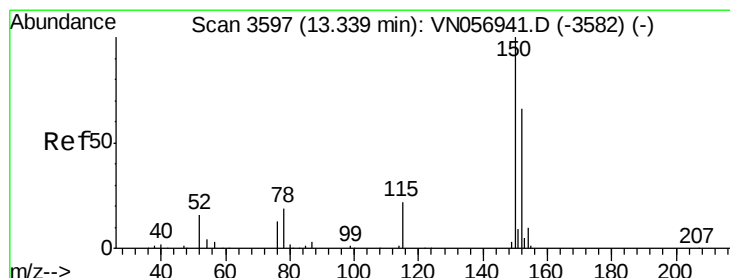
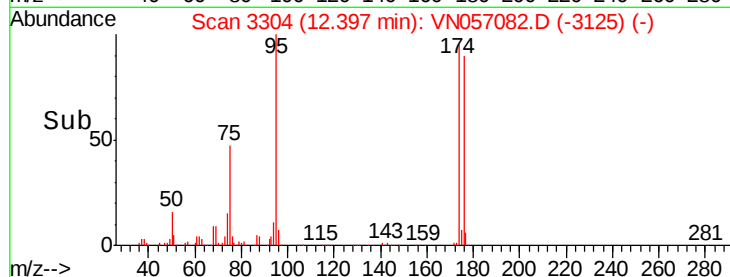
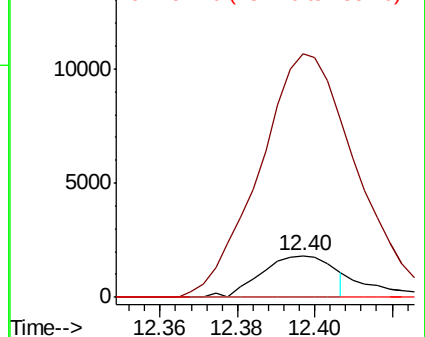
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN057082.D

Acq: 5 Aug 2019 15:15

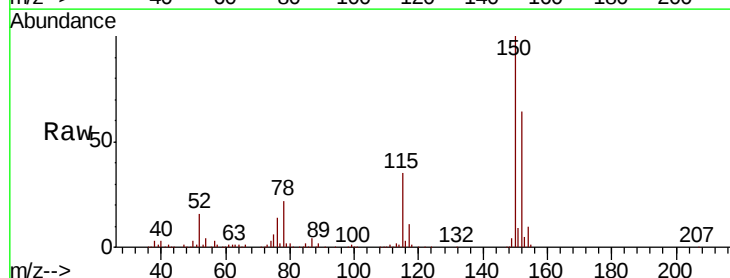
Tgt Ion:152 Resp: 199094

Ion Ratio Lower Upper

152 100

115 55.3 28.2 84.6

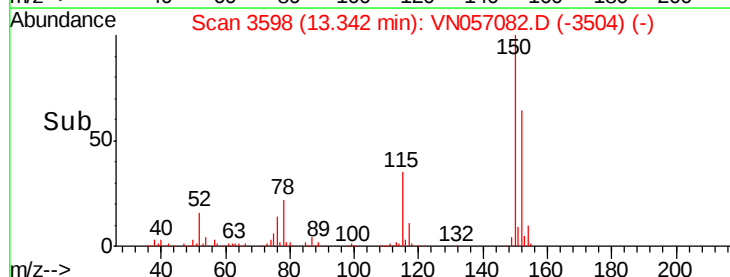
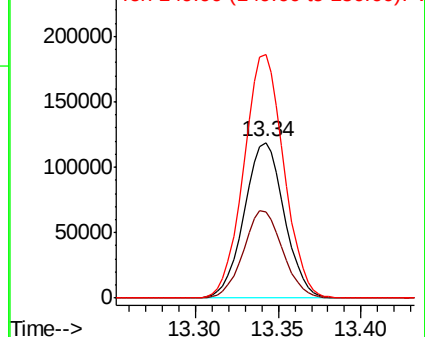
150 157.0 0.0 349.4

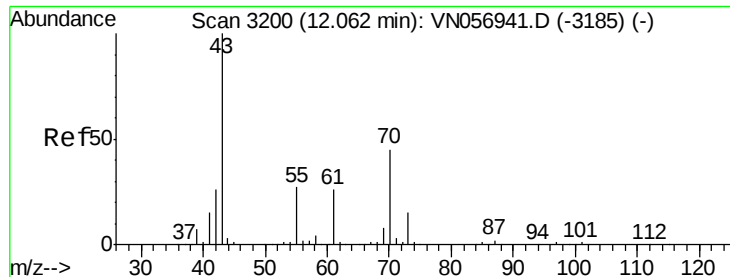


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.317 ug/l

RT: 11.87 min Scan# 3141

Delta R.T. -0.19 min

Lab File: VN057082.D

Acq: 5 Aug 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 16570

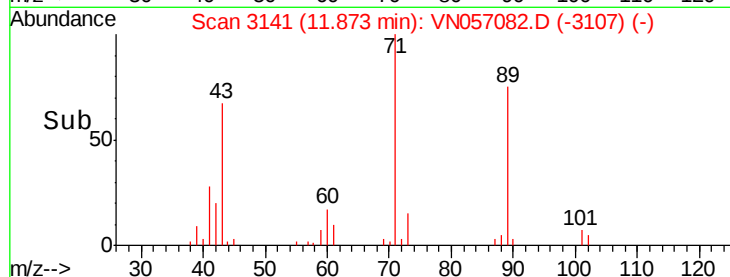
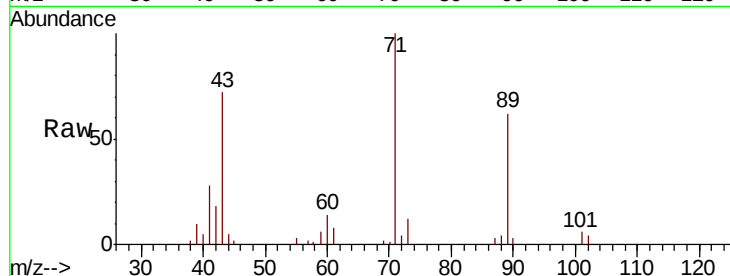
Ion Ratio Lower Upper

43 100

70 2.3 36.5 54.7#

55 4.1 21.4 32.0#

61 11.6 20.5 30.7#

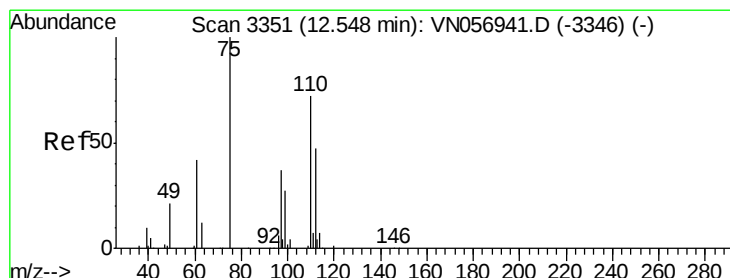
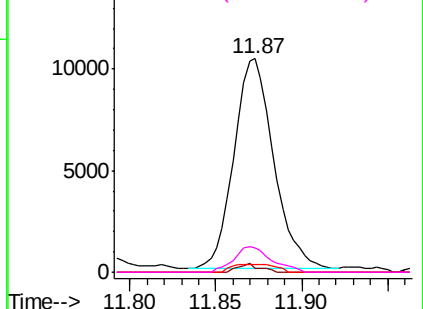


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 30.460 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN057082.D

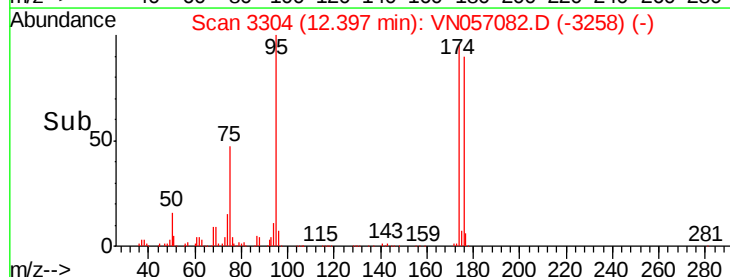
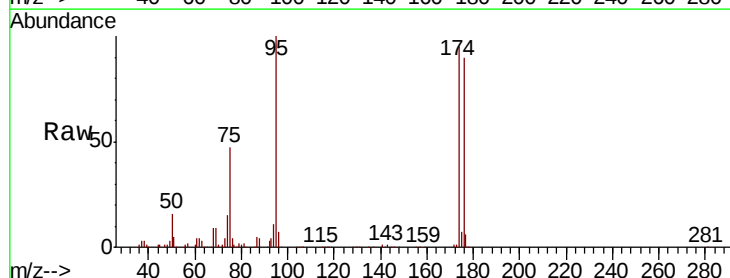
Acq: 5 Aug 2019 15:15

Tgt Ion: 75 Resp: 123157

Ion Ratio Lower Upper

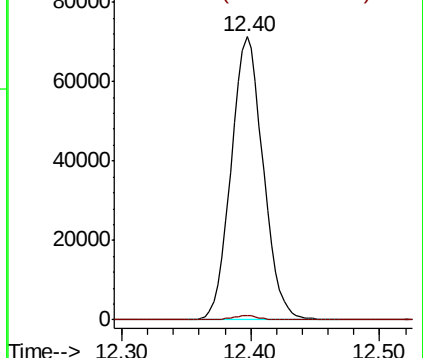
75 100

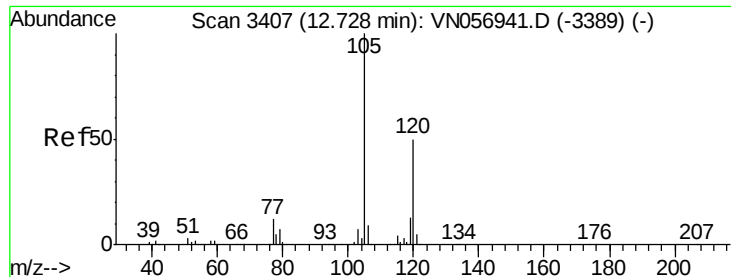
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.946 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN057082.D

Acq: 5 Aug 2019 15:15

Instrument :

MSVOA_N

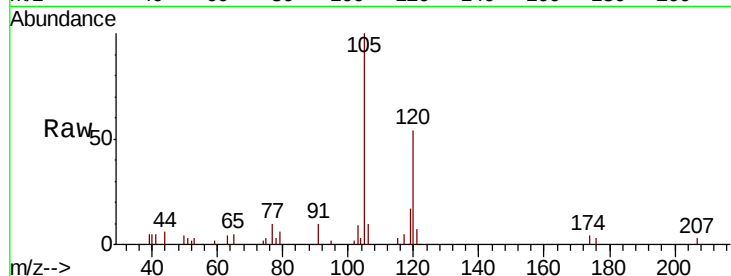
ClientSampled :

Tot Ion:105 Resp: 13356

Ion Ratio Lower Upper

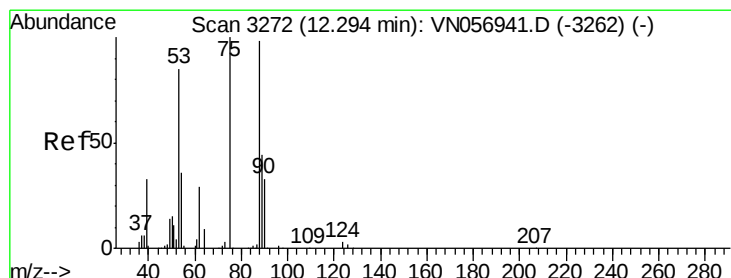
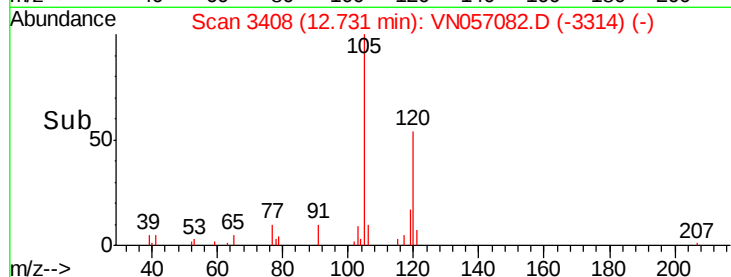
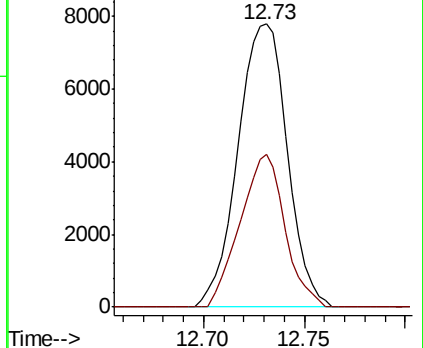
105 100

120 48.9 24.8 74.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 97.866 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN057082.D

Acq: 5 Aug 2019 15:15

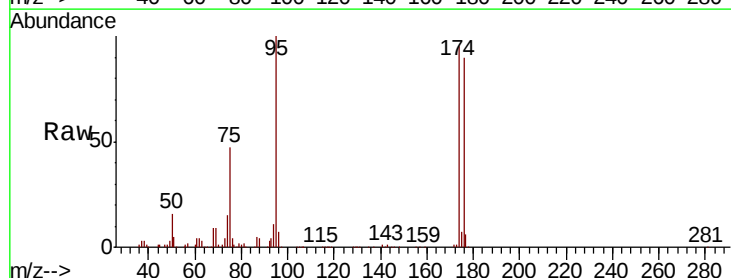
Tgt Ion: 75 Resp: 123157

Ion Ratio Lower Upper

75 100

53 0.0 69.3 103.9#

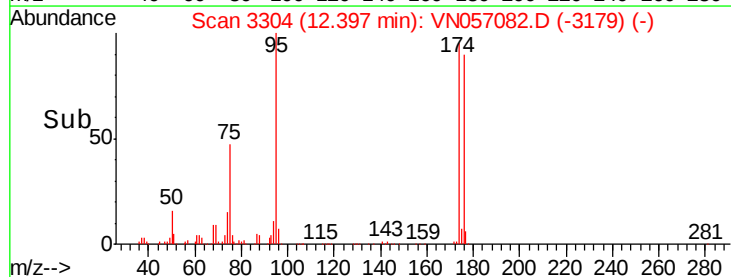
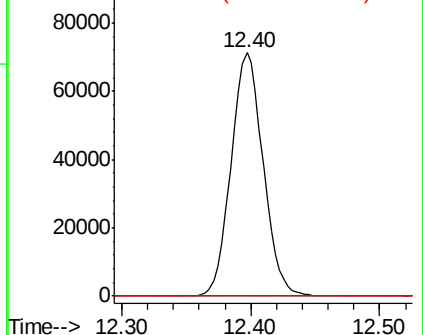
89 0.0 35.8 53.6#

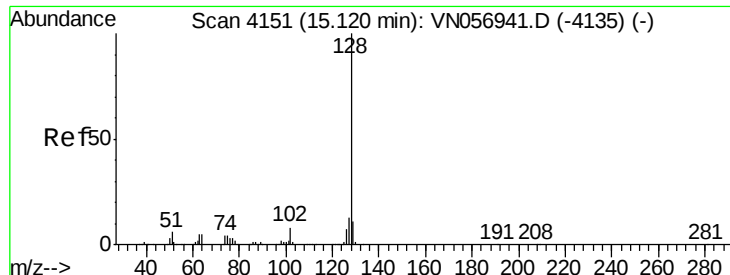


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 3.647 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.01 min

Lab File: VN057082.D

Acq: 5 Aug 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

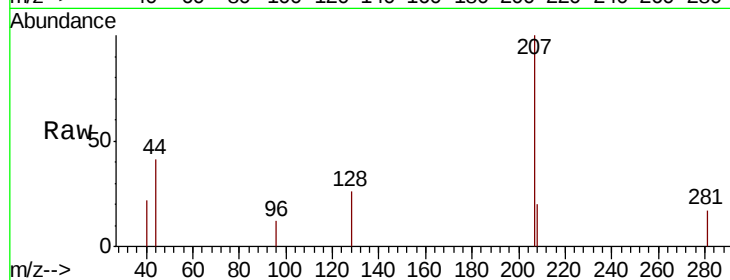
Tot Ion:128 Resp: 541

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#



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

500

400

300

200

100

0

15.10 15.12 15.14

15.13

Time-->

