

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021519\
 Data File : VN053805.D
 Acq On : 15 Feb 2019 17:32
 Operator : JC/SP
 Sample : K1346-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 15 23:26:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	688340	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1135946	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1067252	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	431376	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	364164	52.74	ug/l	0.00
Spiked Amount			Recovery	=	105.48%	
35) Dibromofluoromethane	7.59	113	361317	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
50) Toluene-d8	10.09	98	1393771	51.72	ug/l	0.00
Spiked Amount			Recovery	=	103.44%	
62) 4-Bromofluorobenzene	12.40	95	455281	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	

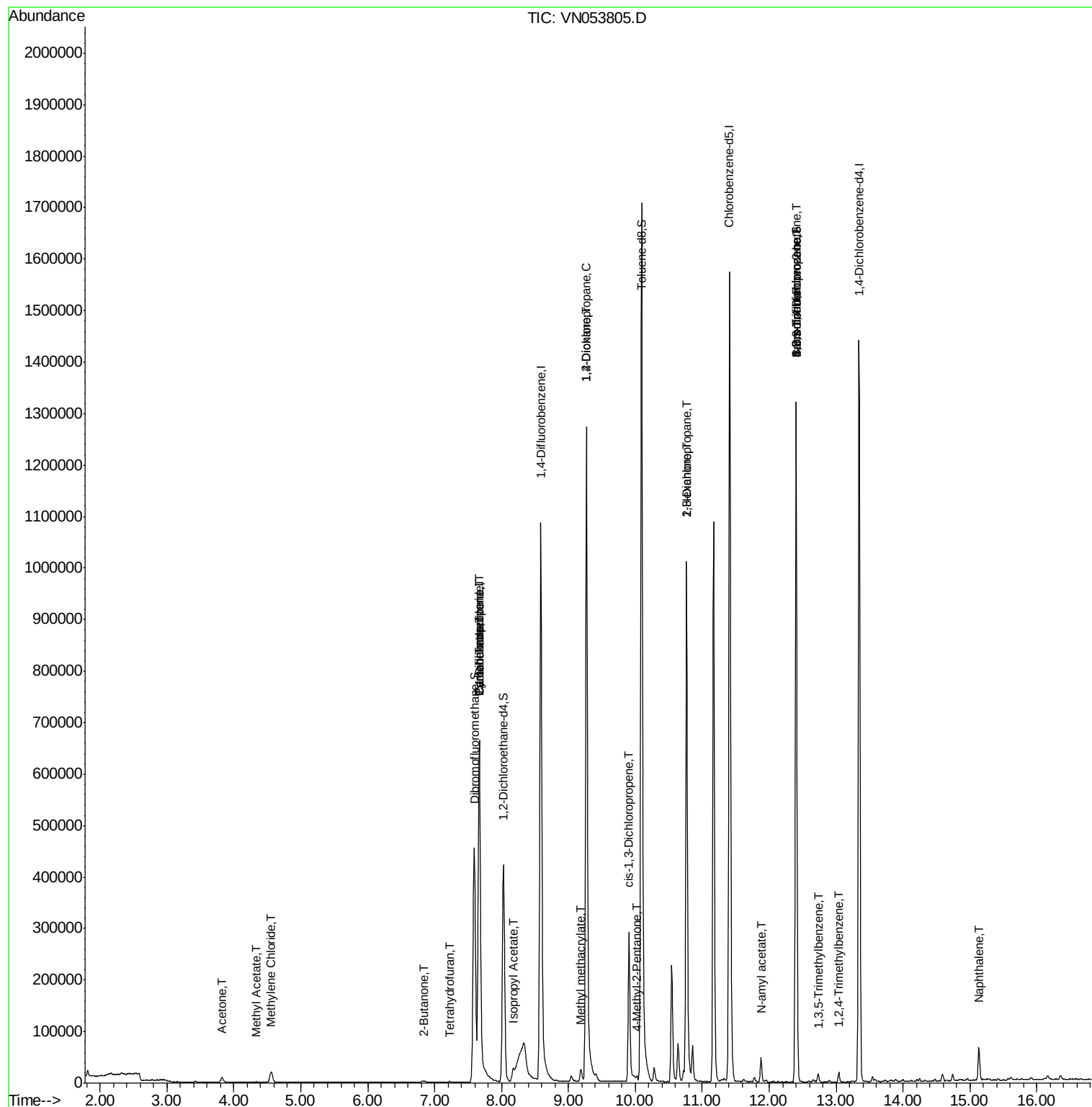
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	16859	9.518	ug/l	97
18) Methyl Acetate	4.34	43	3271	0.624	ug/l #	84
20) Methylene Chloride	4.55	84	17121	2.304	ug/l	98
25) 2-Butanone	6.84	43	4044	1.601	ug/l	90
29) Tetrahydrofuran	7.22	42	966	0.596	ug/l #	80
31) Cyclohexane	7.67	56	10103	0.698	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40601	3.965	ug/l #	49
38) Carbon Tetrachloride	7.67	117	54035	5.238	ug/l #	16
43) Isopropyl Acetate	8.17	43	30286	2.742	ug/l #	81
45) 1,2-Dichloropropane	9.27	63	1863	0.231	ug/l #	43
48) Methyl methacrylate	9.18	41	9362	1.776	ug/l #	12
49) 1,4-Dioxane	9.27	88	193	41.526	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	6660	1.227	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	61987	5.161	ug/l #	60
57) 1,3-Dichloropropane	10.77	76	11347	0.983	ug/l #	43
59) 2-Hexanone	10.76	43	149187	40.491	ug/l #	50
71) Bromoform	12.40	173	1760	0.324	ug/l #	1
74) N-amyl acetate	11.88	43	14776	2.026	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	211646	38.198	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8832	0.351	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	211646	107.410	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	12550	0.490	ug/l	95
95) Naphthalene	15.13	128	59597	4.772	ug/l	99

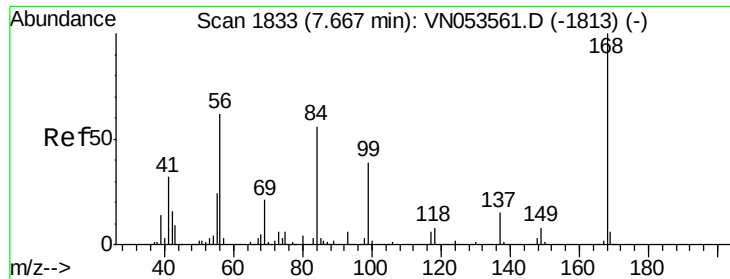
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053805.D

Acq: 15 Feb 2019 17:32

Instrument :

MSVOA_N

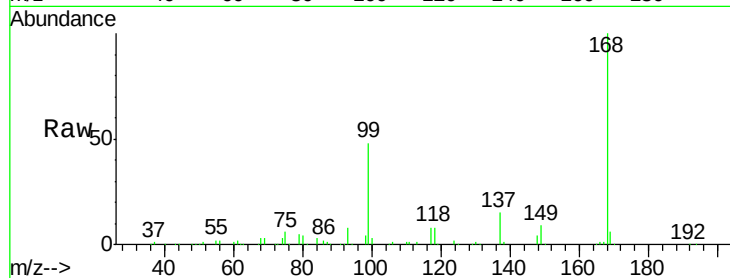
ClientSampled :

Tot Ion:168 Resp: 688340

Ion Ratio Lower Upper

168 100

99 47.5 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

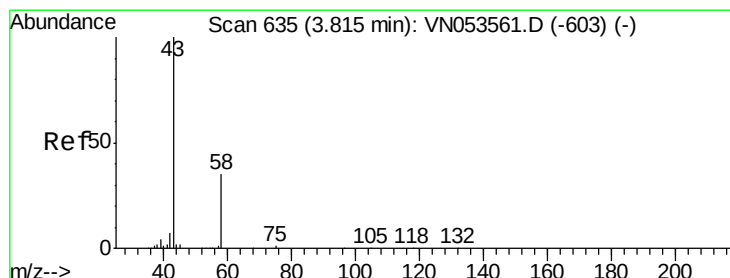
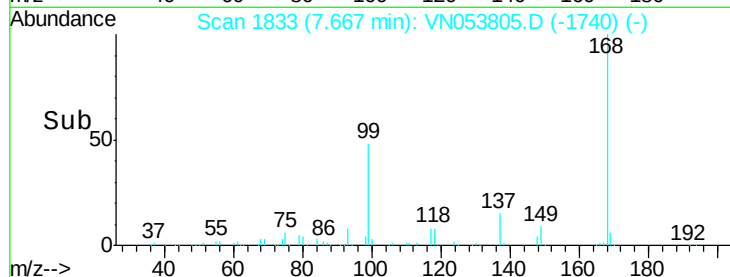
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#16

Acetone

Concen: 9.518 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053805.D

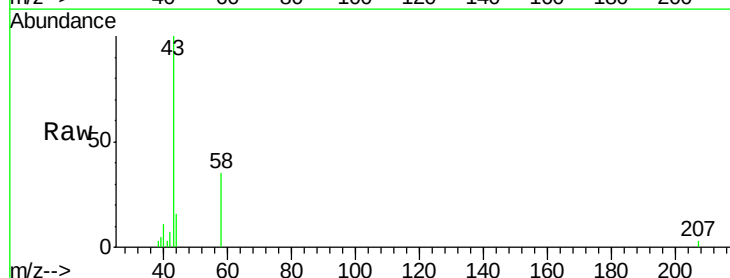
Acq: 15 Feb 2019 17:32

Tgt Ion: 43 Resp: 16859

Ion Ratio Lower Upper

43 100

58 35.5 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

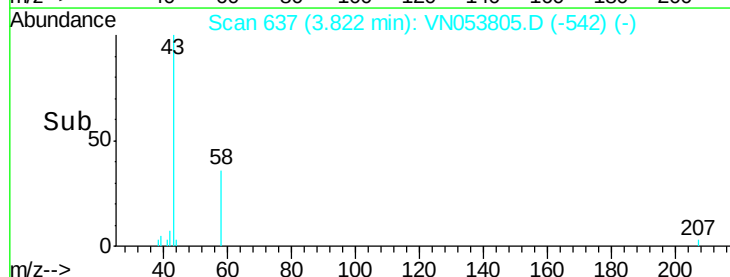
6000

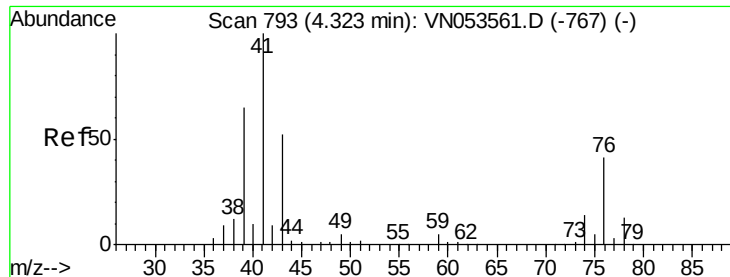
4000

2000

0

Time--> 3.70 3.80 3.90

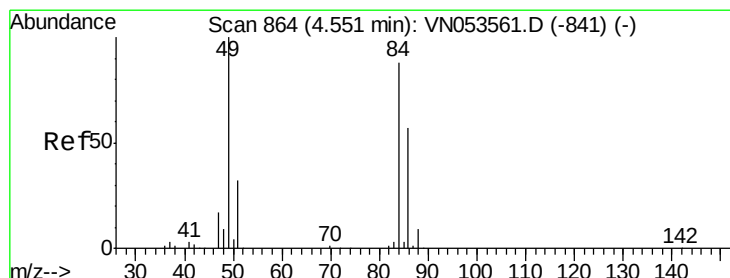
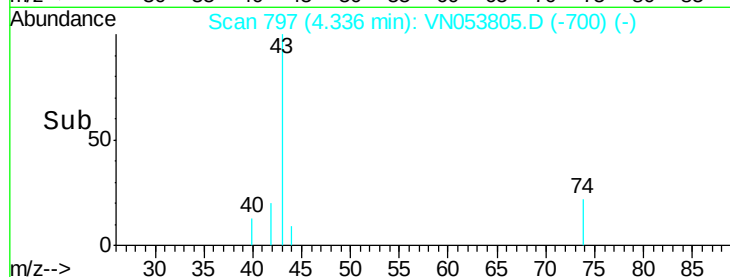
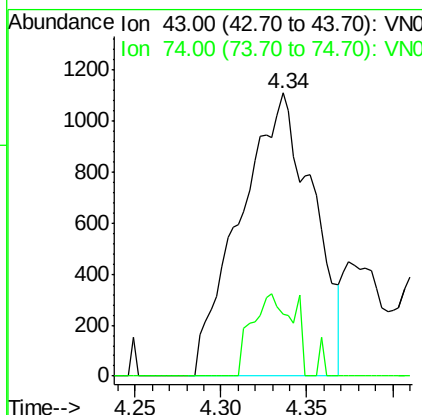
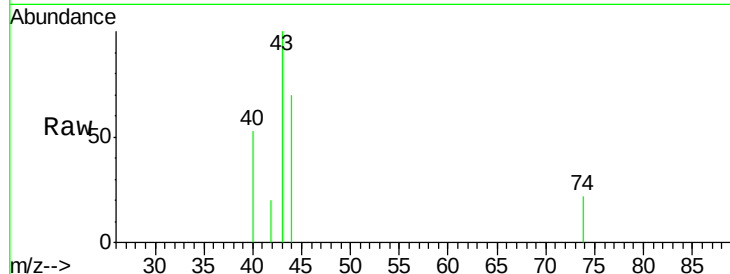




#18
Methyl Acetate
Concen: 0.624 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN053805.D
Acq: 15 Feb 2019 17:32

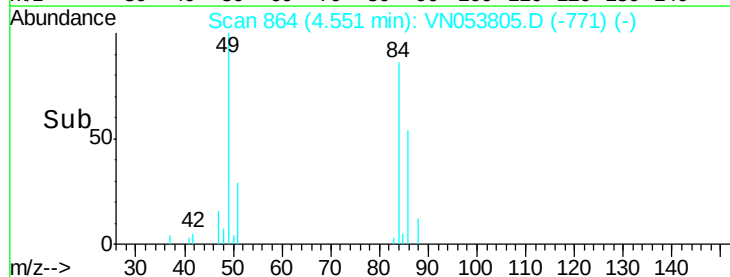
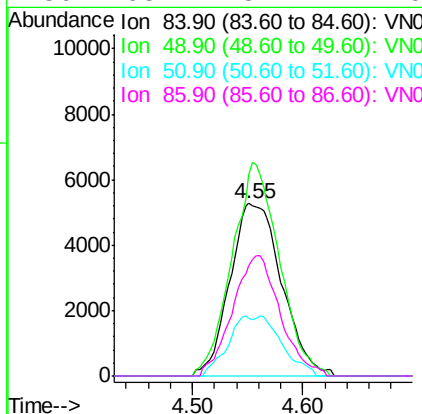
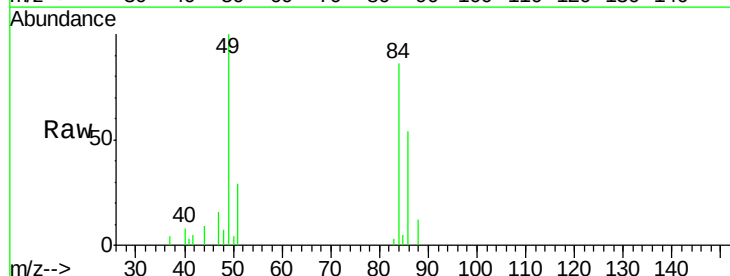
Instrument :
MSVOA_N
ClientSampled :

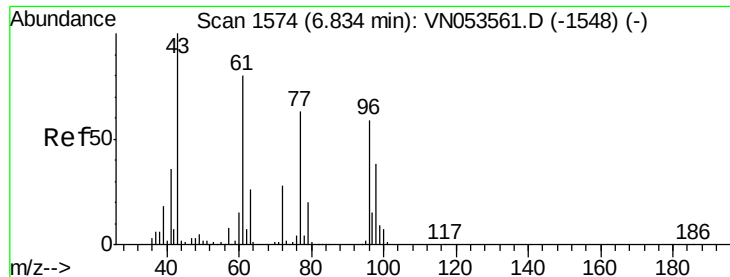
Tot Ion: 43 Resp: 3271
Ion Ratio Lower Upper
43 100
74 16.3 19.4 29.2#



#20
Methylene Chloride
Concen: 2.304 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053805.D
Acq: 15 Feb 2019 17:32

Tgt Ion: 84 Resp: 17121
Ion Ratio Lower Upper
84 100
49 116.6 94.3 141.5
51 33.5 29.4 44.2
86 63.4 51.4 77.0





#25

2-Butanone

Concen: 1.601 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN053805.D

Acq: 15 Feb 2019 17:32

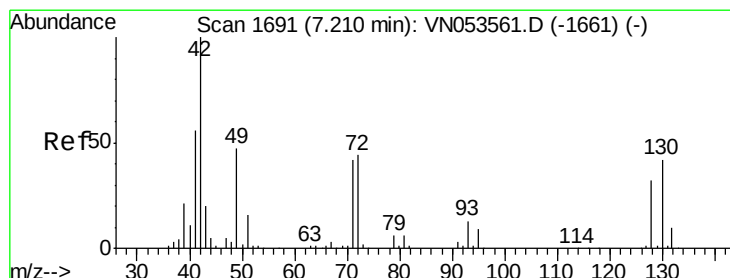
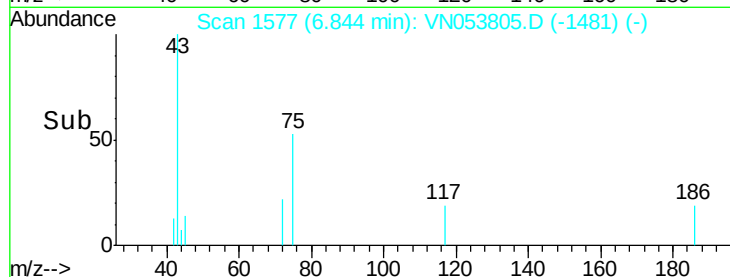
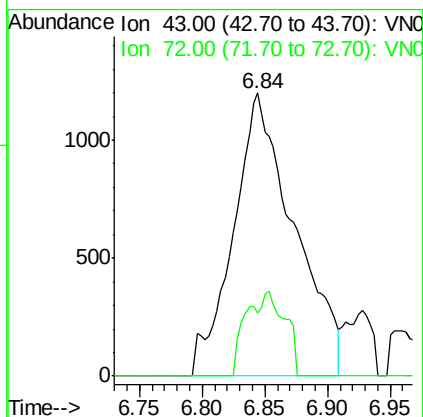
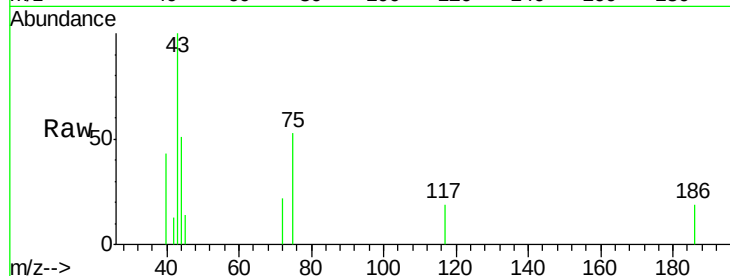
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 4044

Ion Ratio Lower Upper

43 100

72 22.4 22.0 33.0



#29

Tetrahydrofuran

Concen: 0.596 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.01 min

Lab File: VN053805.D

Acq: 15 Feb 2019 17:32

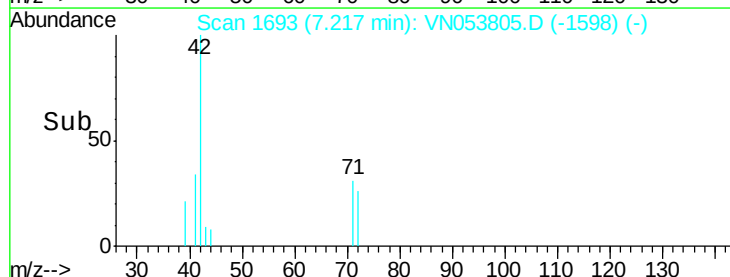
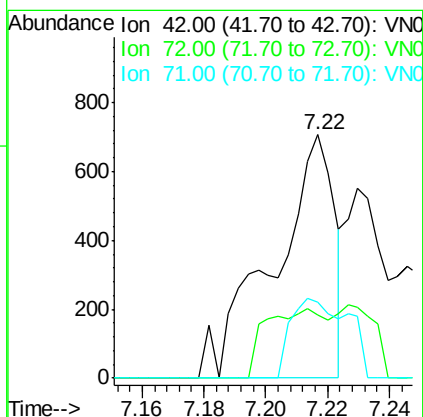
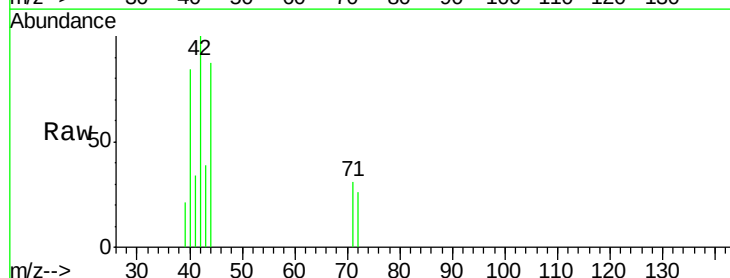
Tgt Ion: 42 Resp: 966

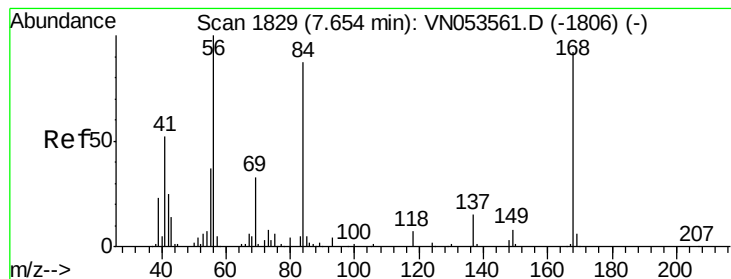
Ion Ratio Lower Upper

42 100

72 28.5 35.2 52.8#

71 30.8 33.0 49.4#





#31

Cyclohexane

Concen: 0.698 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053805.D

Acq: 15 Feb 2019 17:32

Instrument :
MSVOA_N
ClientSampled :

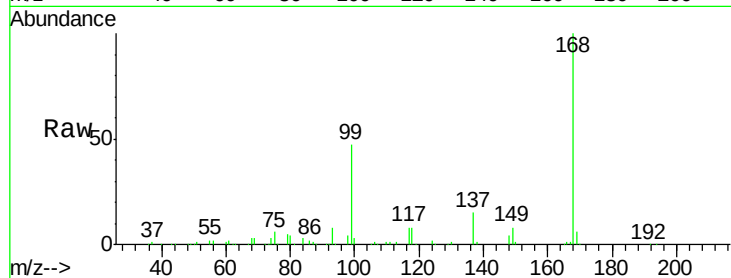
Tot Ion: 56 Resp: 10103

Ion Ratio Lower Upper

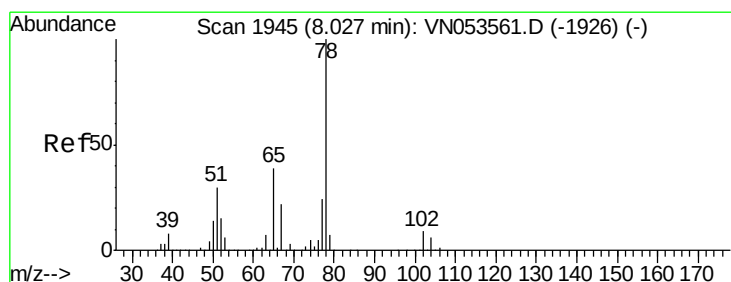
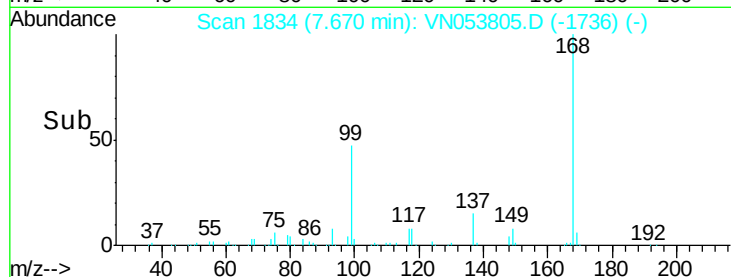
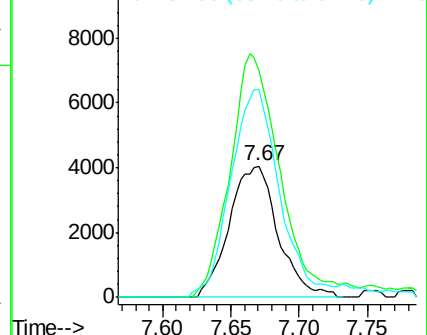
56 100

69 173.4 26.4 39.6#

84 154.4 67.9 101.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 52.736 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053805.D

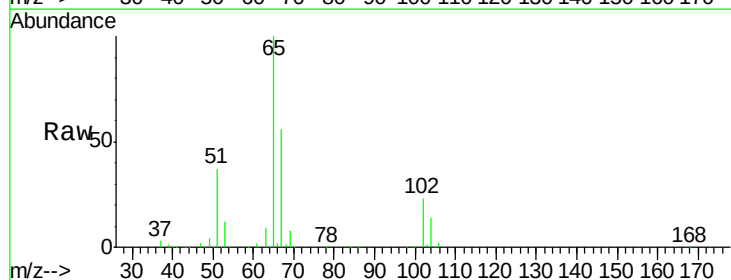
Acq: 15 Feb 2019 17:32

Tgt Ion: 65 Resp: 364164

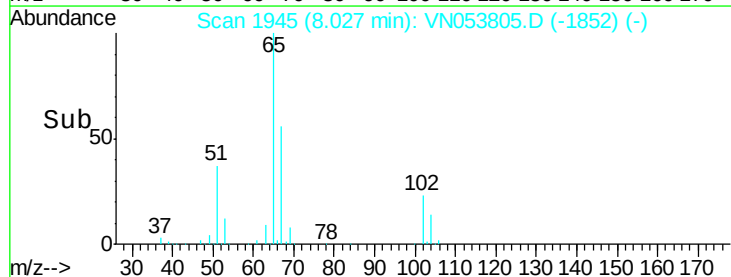
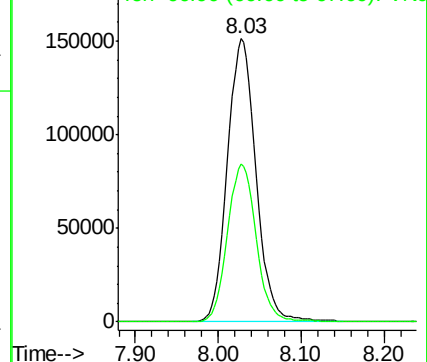
Ion Ratio Lower Upper

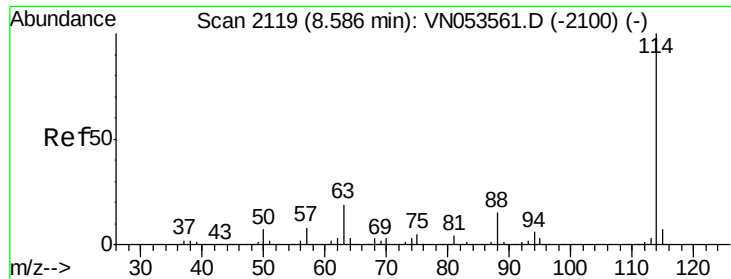
65 100

67 56.0 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053805.D

Acq: 15 Feb 2019 17:32

Instrument :

MSVOA_N

ClientSampleId :

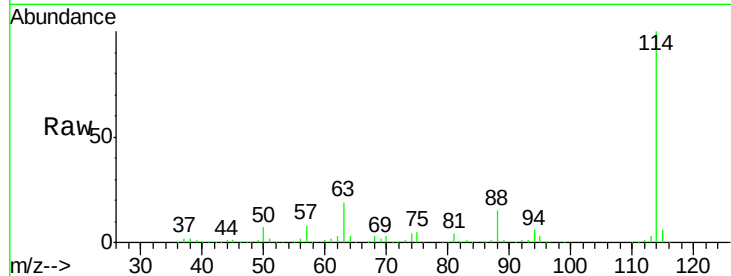
Tot Ion:114 Resp: 1135946

Ion Ratio Lower Upper

114 100

63 18.7 0.0 38.6

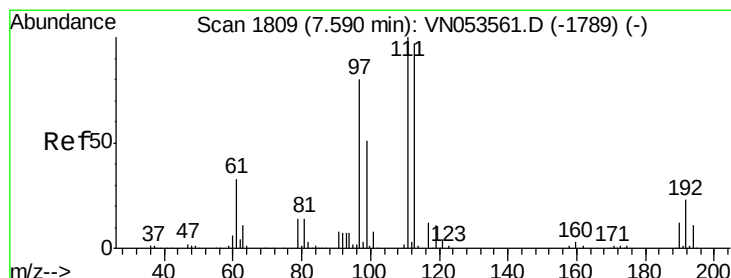
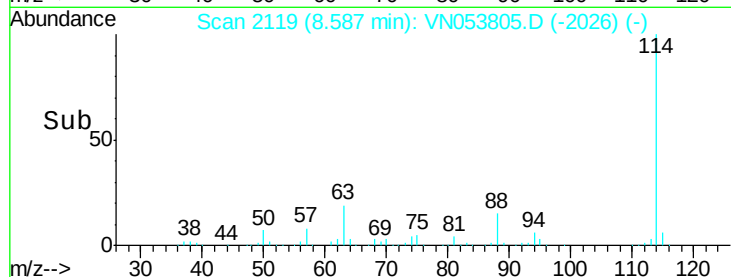
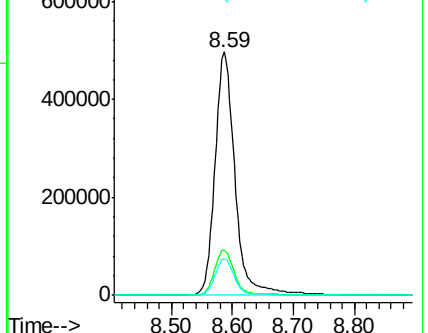
88 15.0 0.0 30.4



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: 50.339 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053805.D

Acq: 15 Feb 2019 17:32

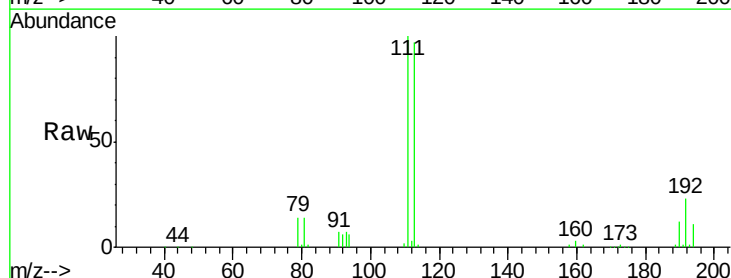
Tgt Ion:113 Resp: 361317

Ion Ratio Lower Upper

113 100

111 102.4 81.1 121.7

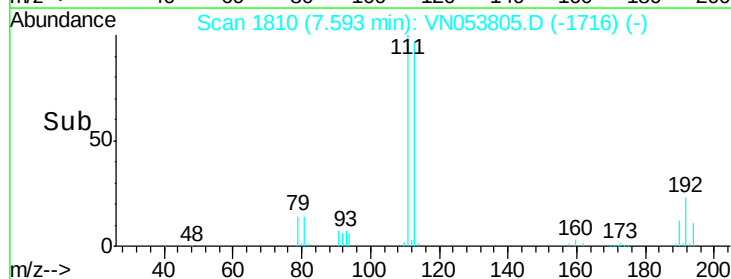
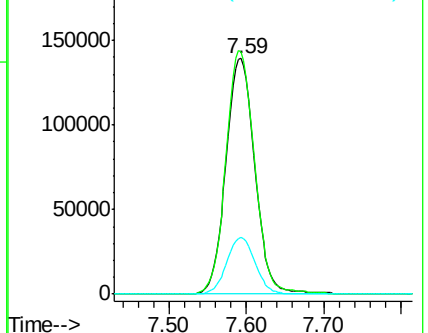
192 23.6 18.2 27.2

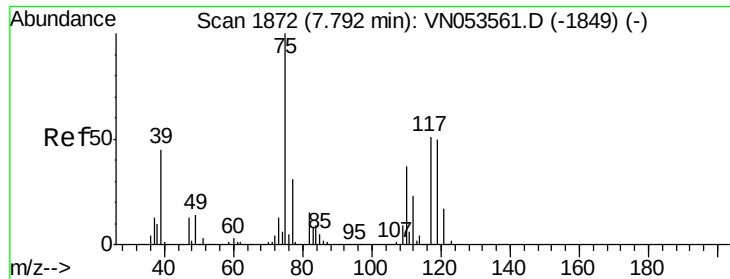


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

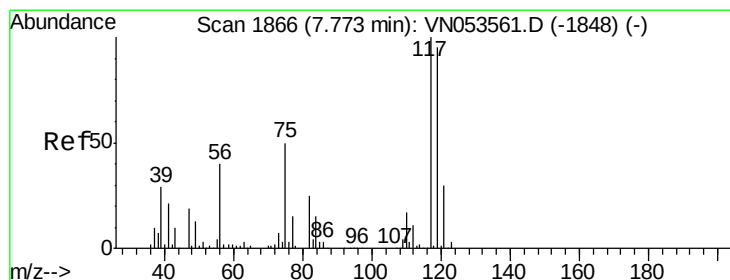
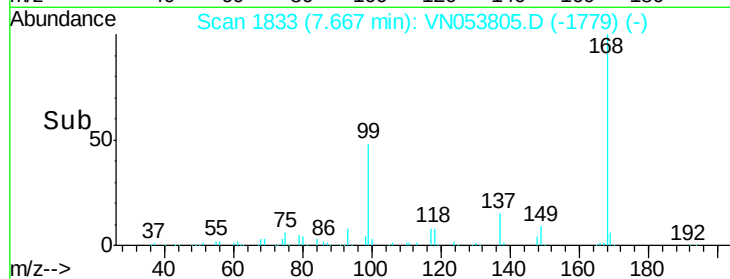
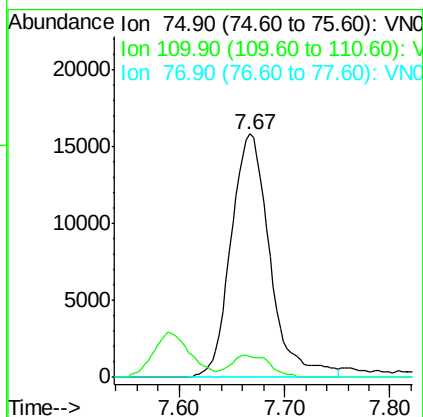
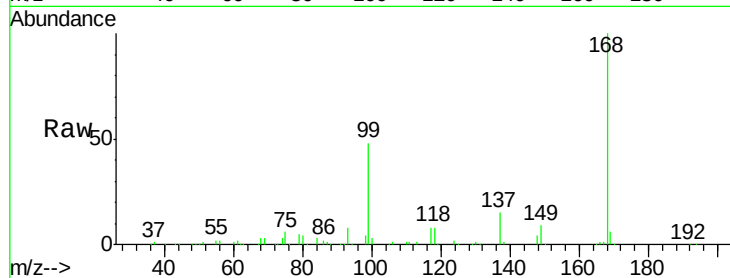




#36
 1,1-Dichloropropene
 Concen: 3.965 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053805.D
 Acq: 15 Feb 2019 17:32

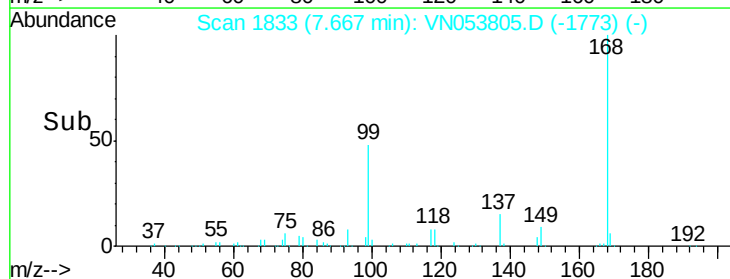
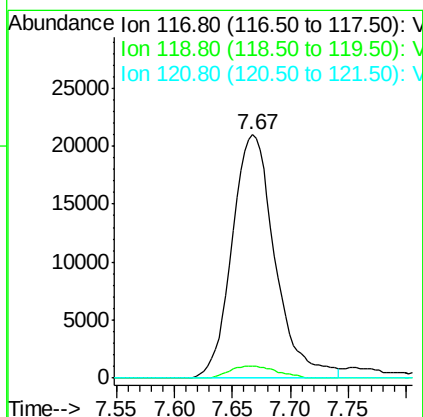
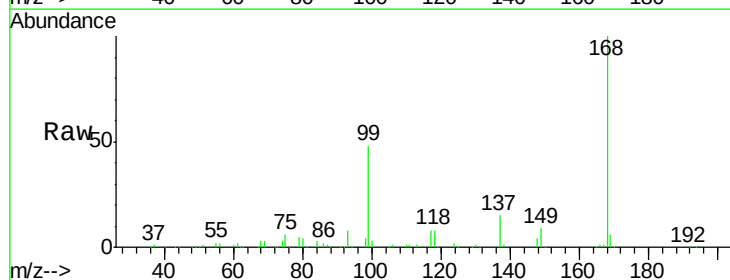
Instrument :
 MSVOA_N
 ClientSampleId :

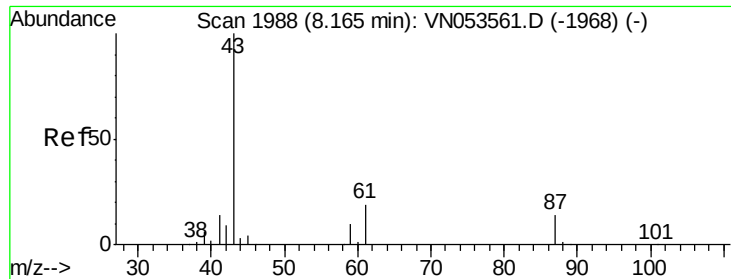
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.1	54.3#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 5.238 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053805.D
 Acq: 15 Feb 2019 17:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	77.2	115.8#
121	0.0	24.6	37.0#





#43

Isopropyl Acetate

Concen: 2.742 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN053805.D

Acq: 15 Feb 2019 17:32

Instrument :

MSVOA_N

ClientSampleId :

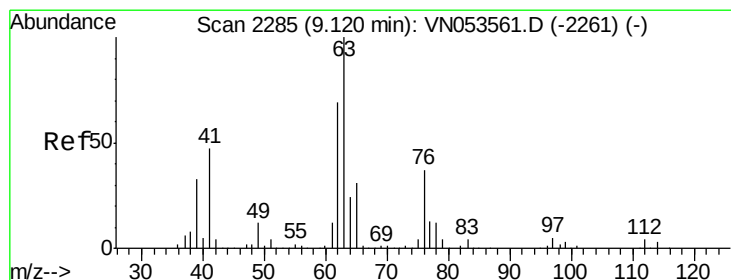
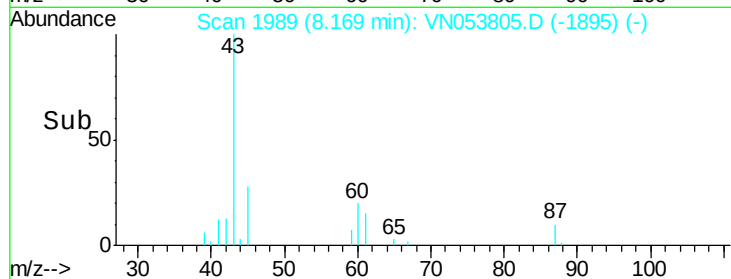
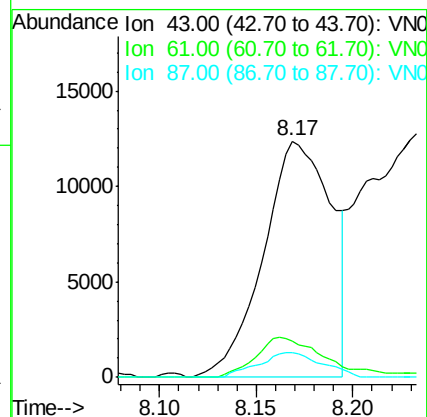
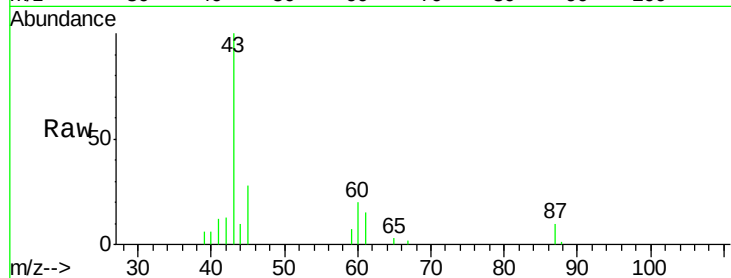
Tot Ion: 43 Resp: 30286

Ion Ratio Lower Upper

43 100

61 17.0 23.9 35.9#

87 9.8 11.0 16.6#



#45

1,2-Dichloropropane

Concen: 0.231 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN053805.D

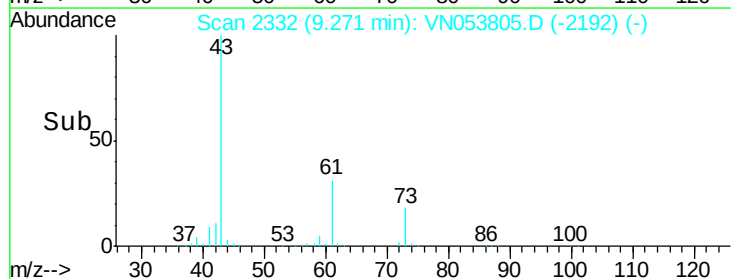
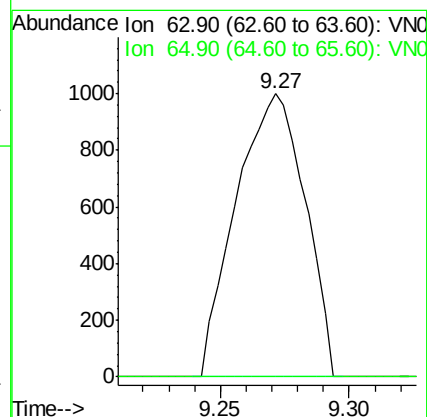
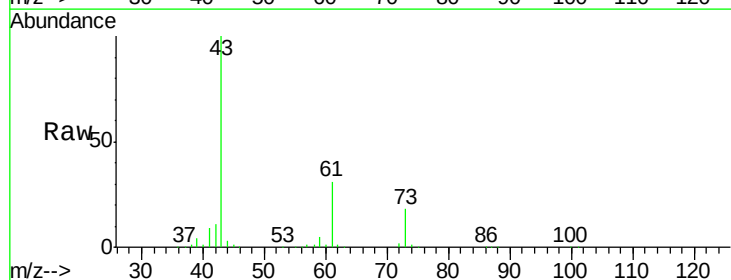
Acq: 15 Feb 2019 17:32

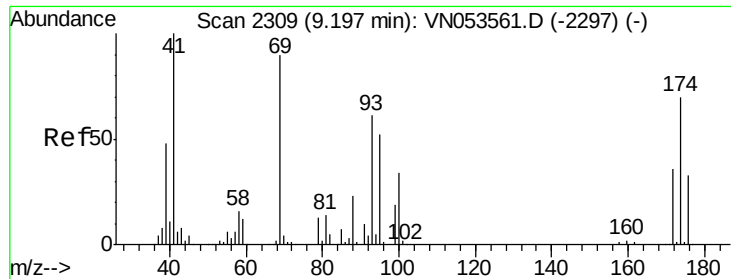
Tgt Ion: 63 Resp: 1863

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#

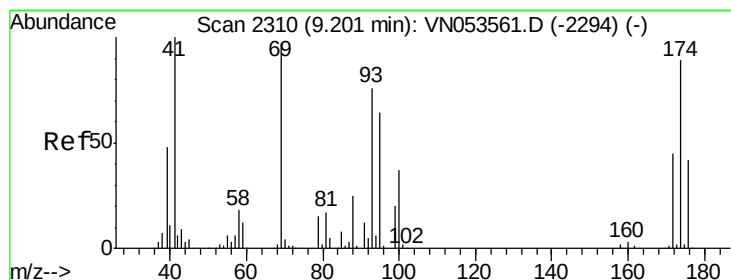
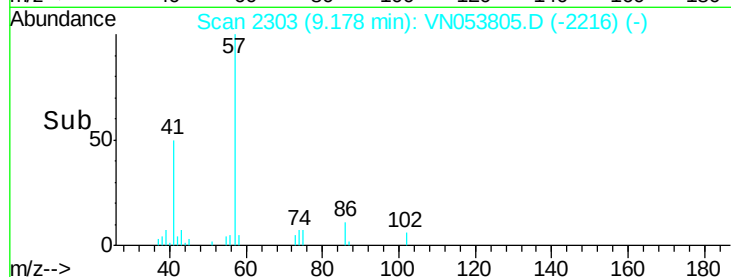
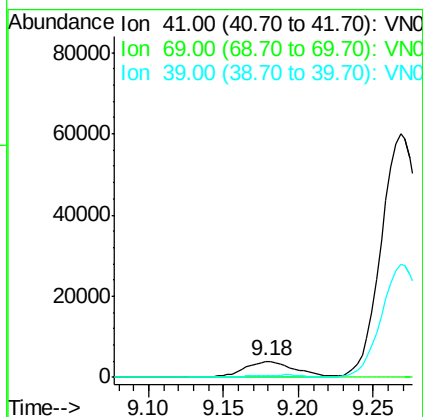
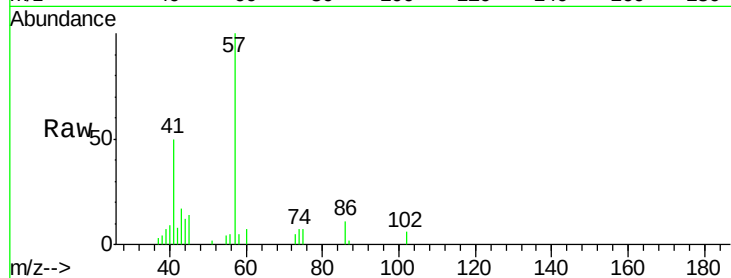




#48
Methvl methacrylate
Concen: 1.776 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053805.D
Acq: 15 Feb 2019 17:32

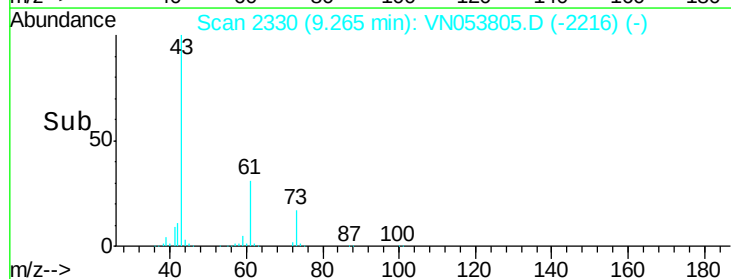
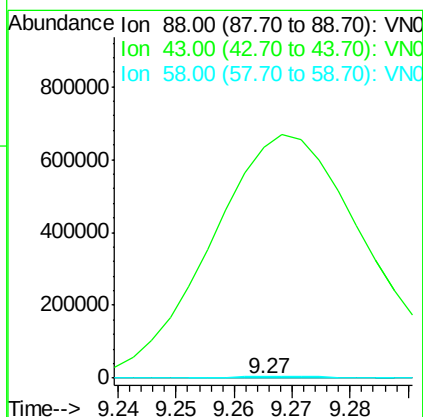
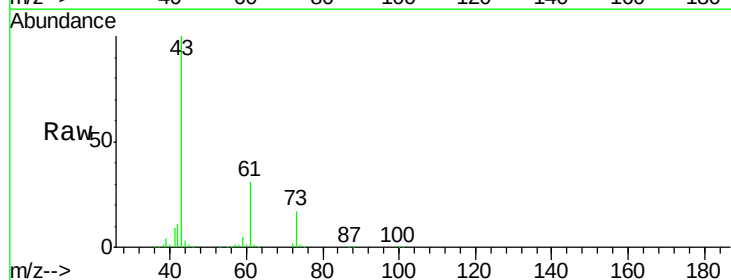
Instrument :
MSVOA_N
ClientSampleId :

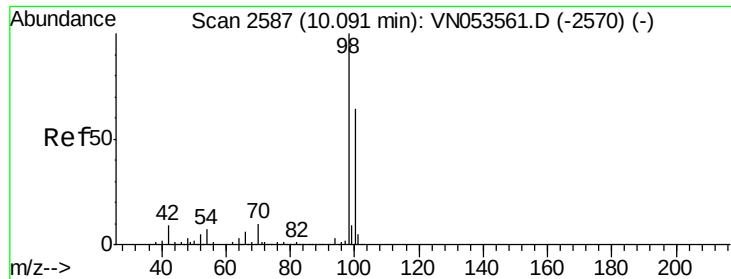
Tot Ion: 41 Resp: 9362
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#



#49
1,4-Dioxane
Concen: 41.526 ug/l
RT: 9.27 min Scan# 2330
Delta R.T. 0.07 min
Lab File: VN053805.D
Acq: 15 Feb 2019 17:32

Tgt Ion: 88 Resp: 193
Ion Ratio Lower Upper
88 100
43 711118.7 27.8 41.6#
58 3672.5 56.5 84.7#





#50

Toluene-d8

Concen: 51.715 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053805.D

Acq: 15 Feb 2019 17:32

Instrument :

MSVOA_N

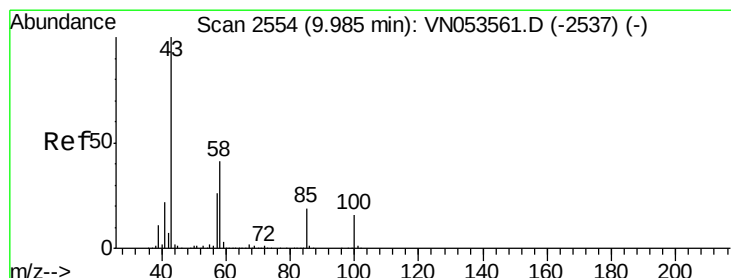
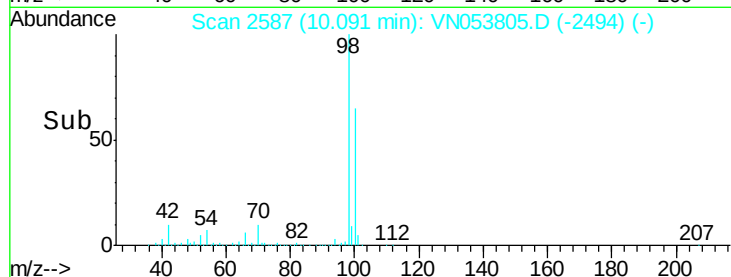
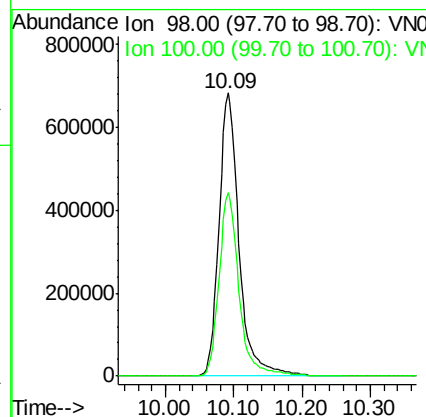
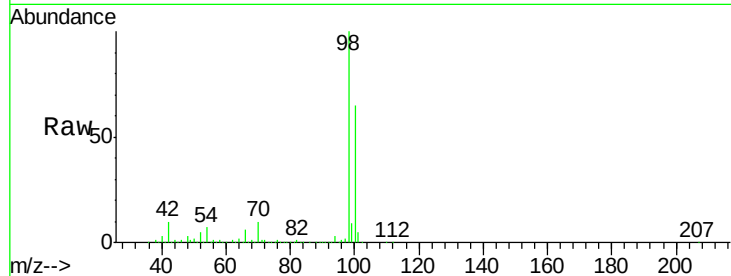
ClientSampleId :

Tot Ion: 98 Resp: 1393771

Ion Ratio Lower Upper

98 100

100 64.6 51.4 77.0



#51

4-Methyl-2-Pentanone

Concen: 1.227 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053805.D

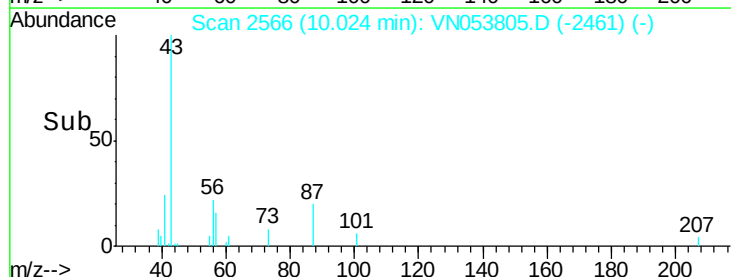
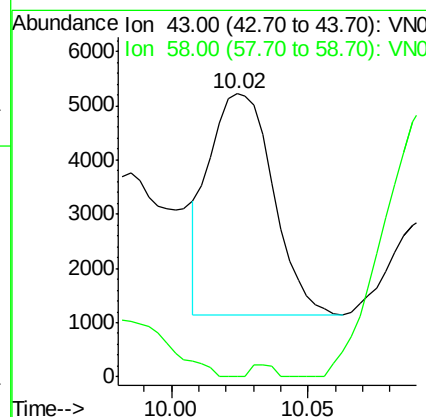
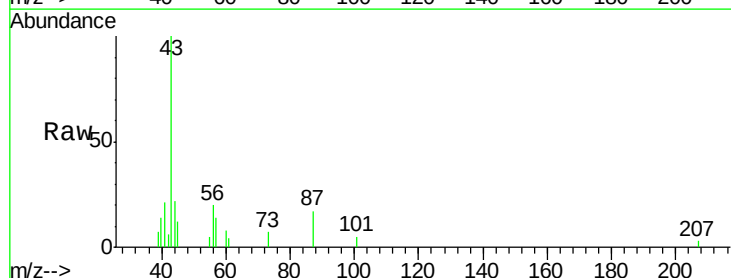
Acq: 15 Feb 2019 17:32

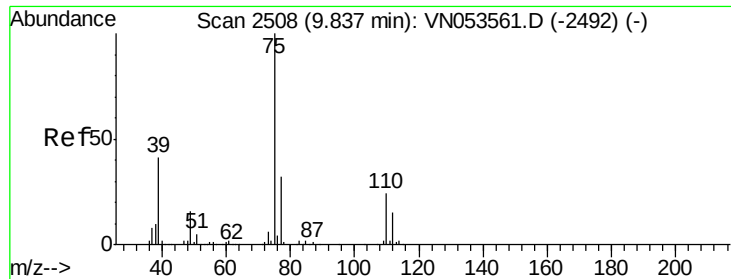
Tgt Ion: 43 Resp: 6660

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



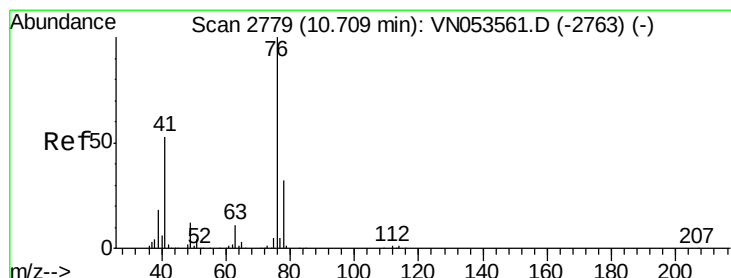
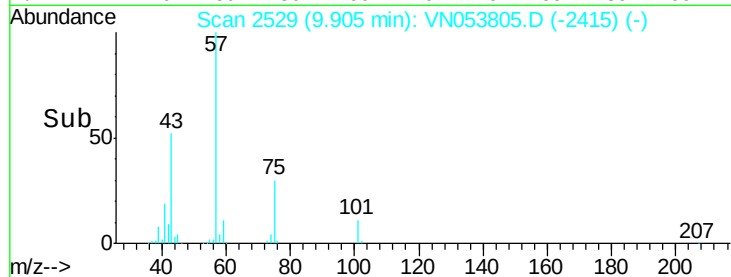
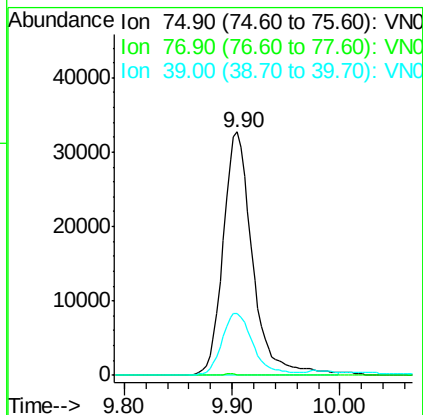
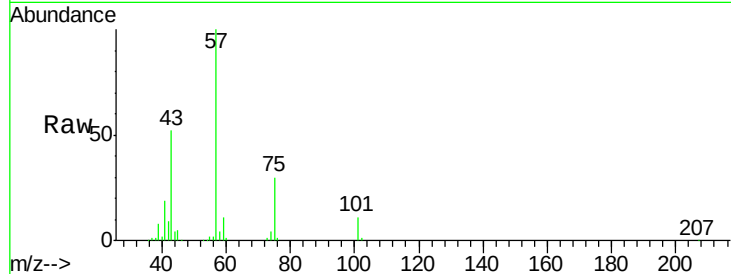


#54

cis-1,3-Dichloropropene
 Concen: 5.161 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053805.D
 Acq: 15 Feb 2019 17:32

Instrument :
 MSVOA_N
 ClientSampleId :

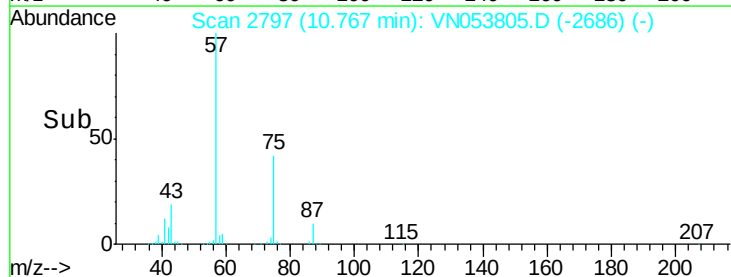
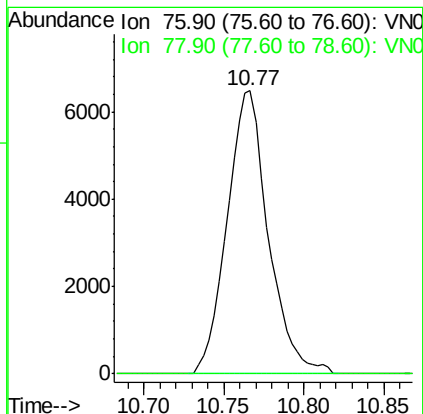
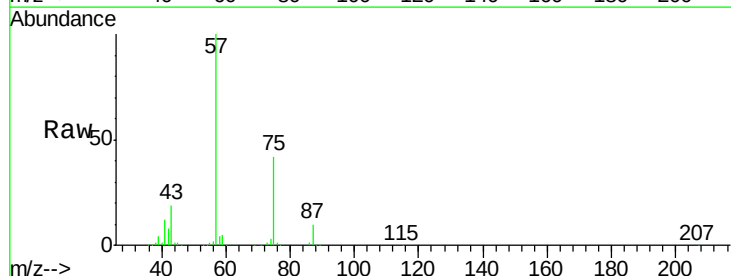
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.8	38.6#
39	25.4	33.4	50.0#

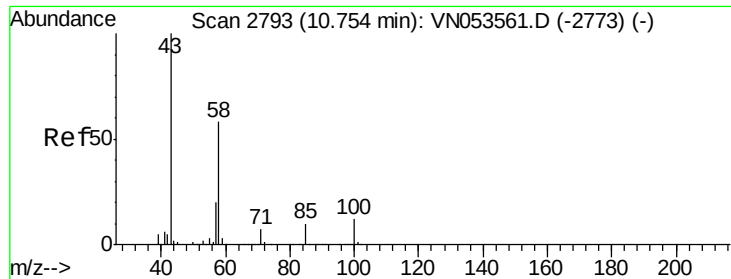


#57

1,3-Dichloropropane
 Concen: 0.983 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN053805.D
 Acq: 15 Feb 2019 17:32

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.6	38.4#

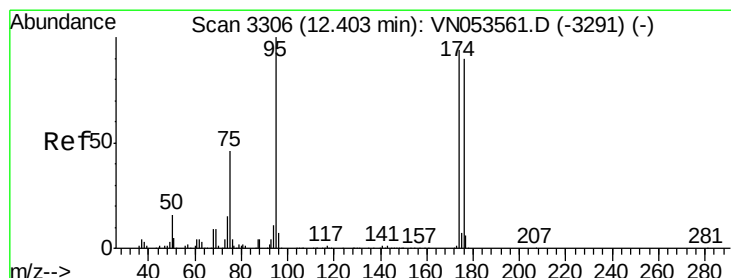
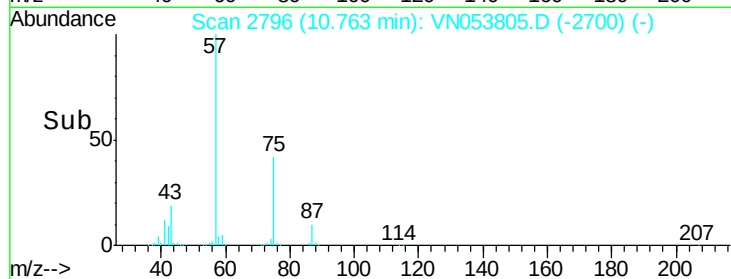
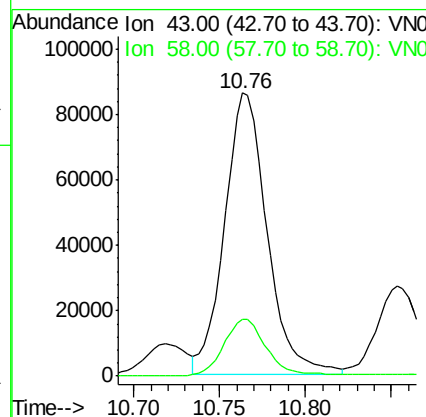
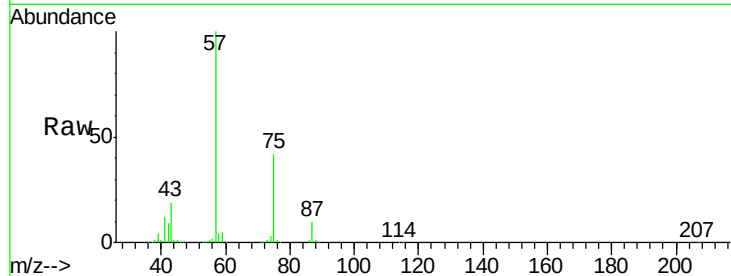




#59
2-Hexanone
Concen: 40.491 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053805.D
Acq: 15 Feb 2019 17:32

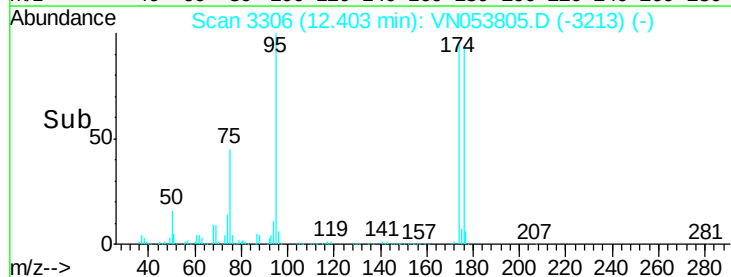
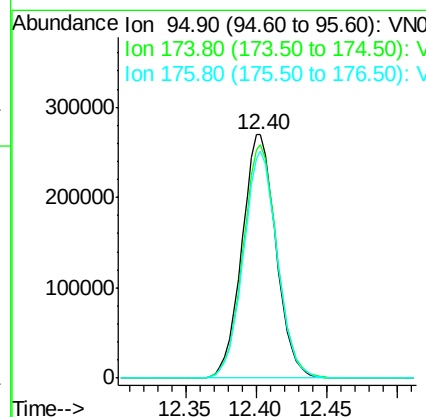
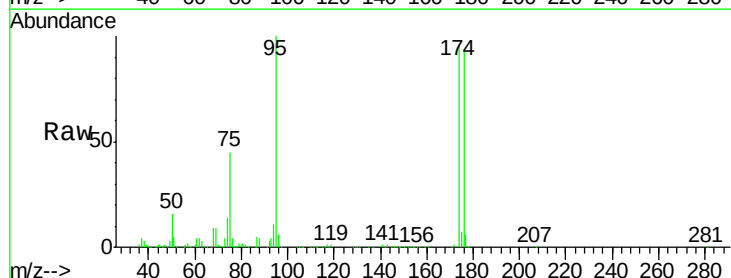
Instrument :
MSVOA_N
ClientSampleId :

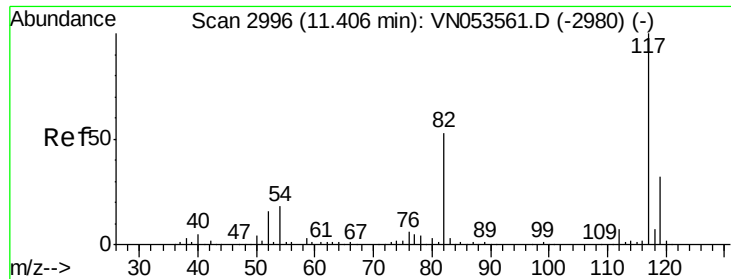
Tot Ion: 43 Resp: 149187
Ion Ratio Lower Upper
43 100
58 20.5 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: 50.651 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053805.D
Acq: 15 Feb 2019 17:32

Tgt Ion: 95 Resp: 455281
Ion Ratio Lower Upper
95 100
174 96.1 0.0 183.2
176 92.5 0.0 177.4

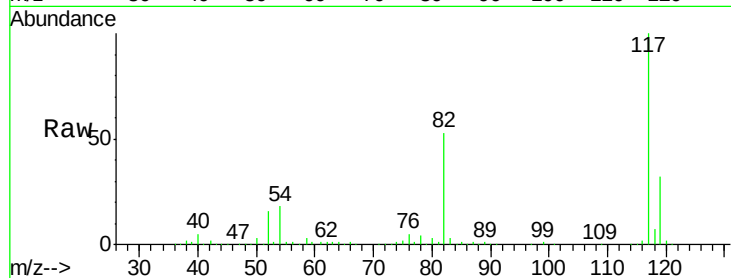




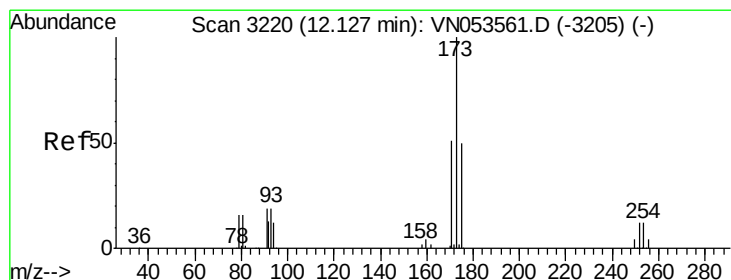
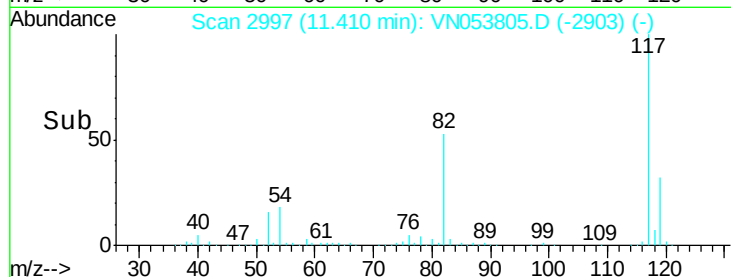
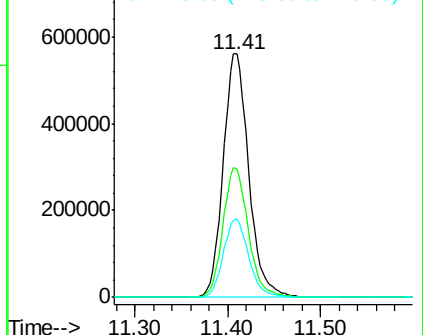
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053805.D
Acq: 15 Feb 2019 17:32

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1067252
Ion Ratio Lower Upper
117 100
82 52.6 42.9 64.3
119 32.0 26.0 39.0

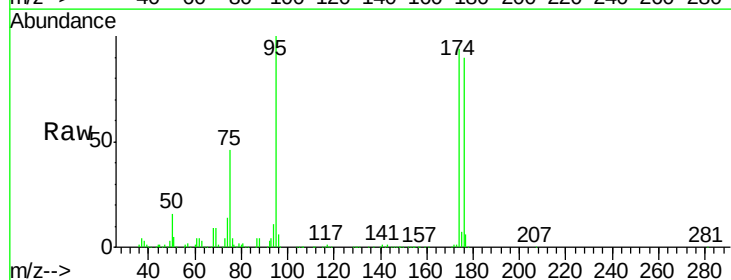


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

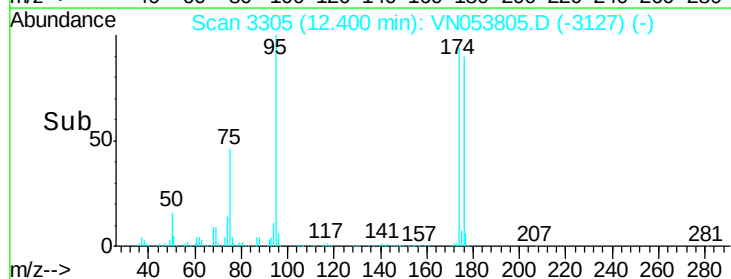
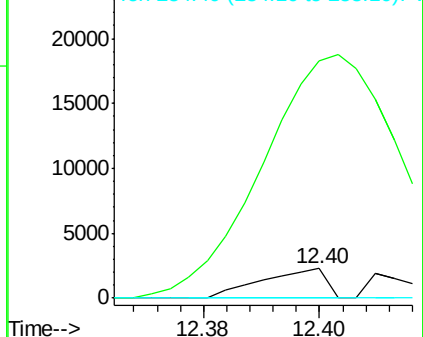


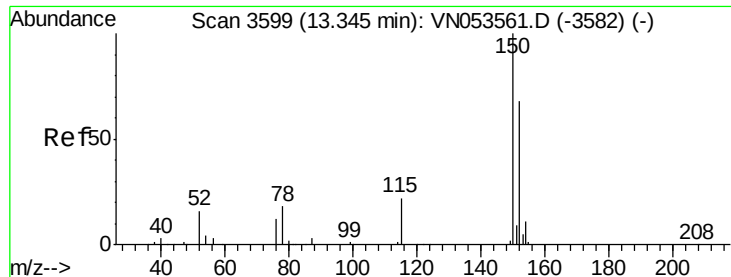
#71
Bromoform
Concen: 0.324 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053805.D
Acq: 15 Feb 2019 17:32

Tgt Ion:173 Resp: 1760
Ion Ratio Lower Upper
173 100
175 1541.4 24.6 74.0#
254 0.0 0.2 0.2#



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# 3599

Delta R.T. 0.00 min

Lab File: VN053805.D

Acq: 15 Feb 2019 17:32

Instrument :

MSVOA_N

ClientSampled :

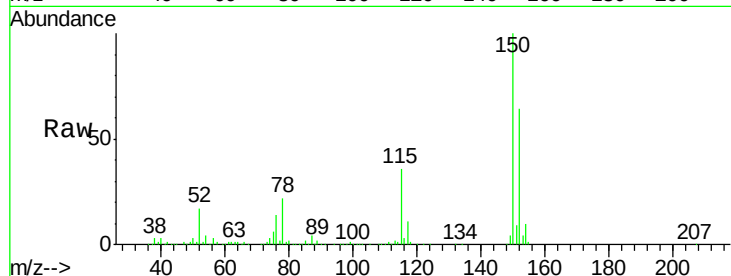
Tot Ion:152 Resp: 431376

Ion Ratio Lower Upper

152 100

115 55.1 27.8 83.4

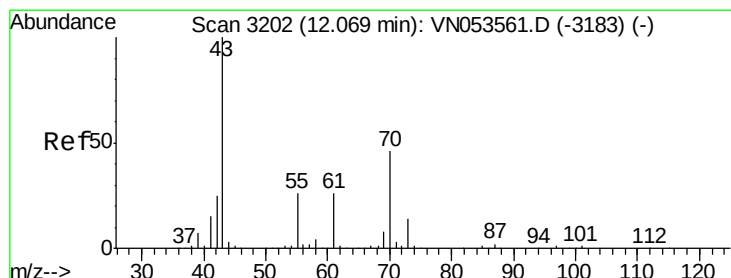
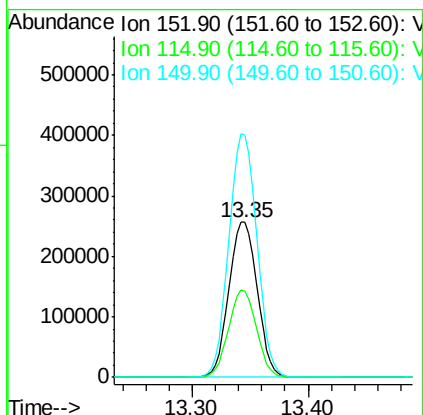
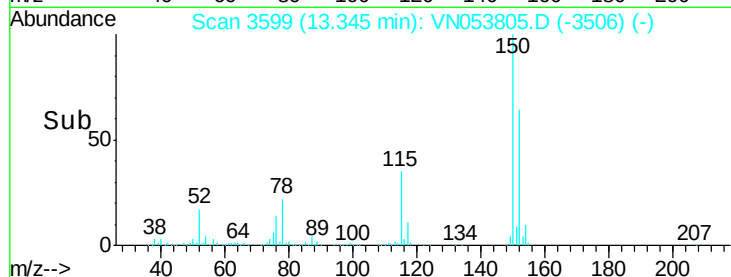
150 155.8 0.0 349.0



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: 2.026 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN053805.D

Acq: 15 Feb 2019 17:32

Tgt Ion: 43 Resp: 14776

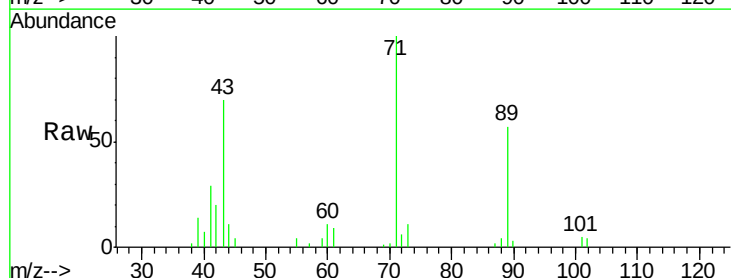
Ion Ratio Lower Upper

43 100

70 2.2 35.4 53.2#

55 5.5 20.9 31.3#

61 11.4 20.5 30.7#

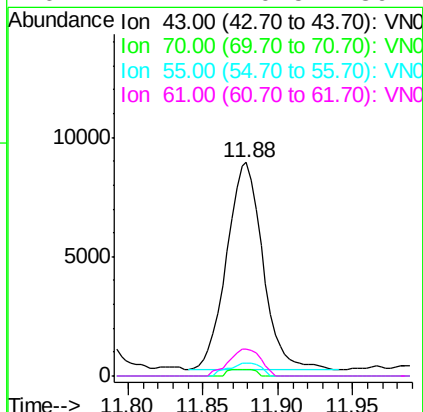
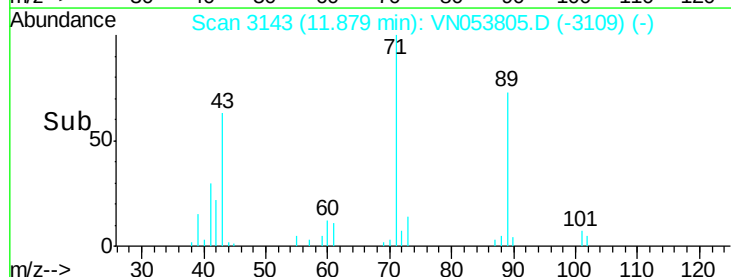


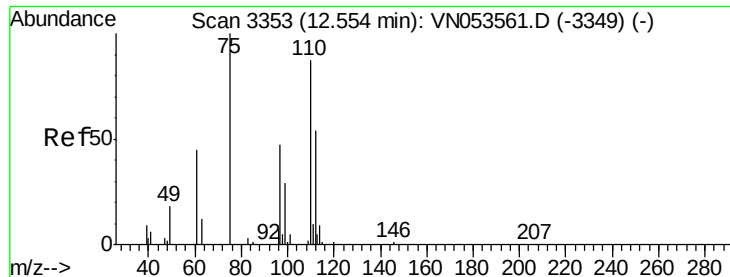
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 38.198 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053805.D

Acq: 15 Feb 2019 17:32

Instrument :

MSVOA_N

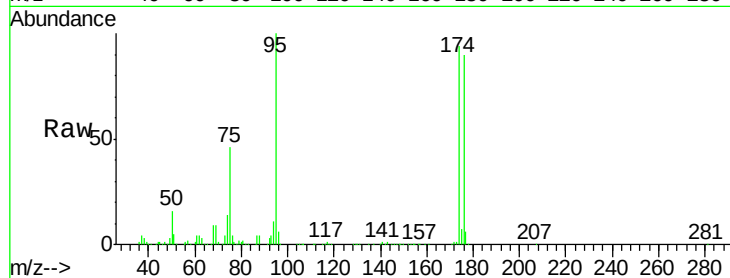
ClientSampled :

Tot Ion: 75 Resp: 211646

Ion Ratio Lower Upper

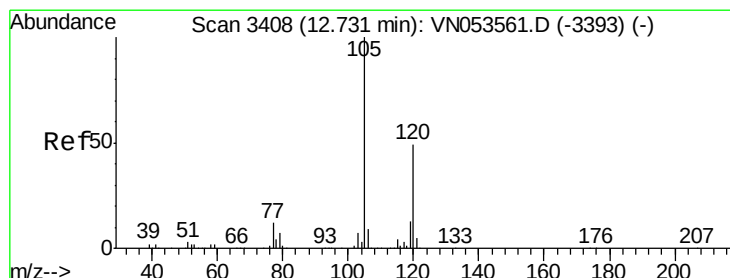
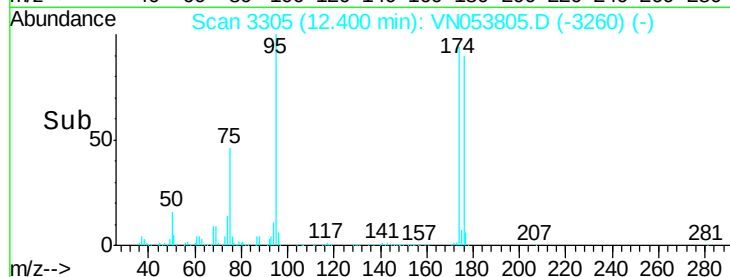
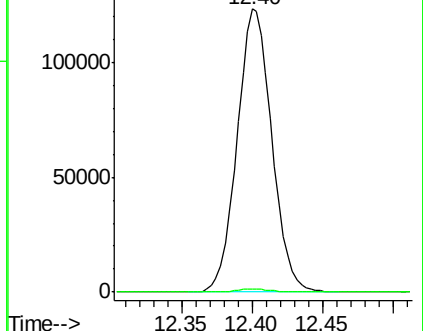
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN053561.D (-3349) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.351 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053805.D

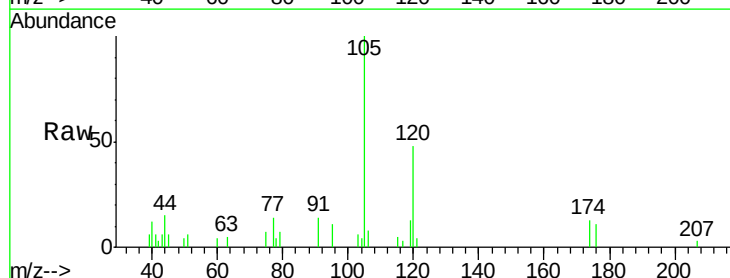
Acq: 15 Feb 2019 17:32

Tgt Ion: 105 Resp: 8832

Ion Ratio Lower Upper

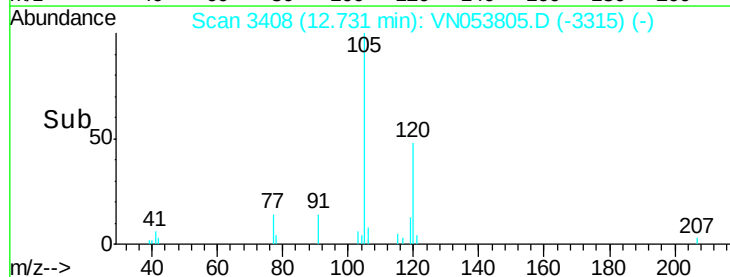
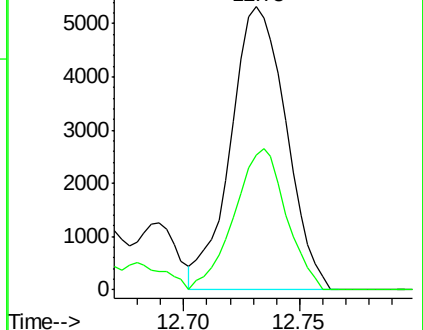
105 100

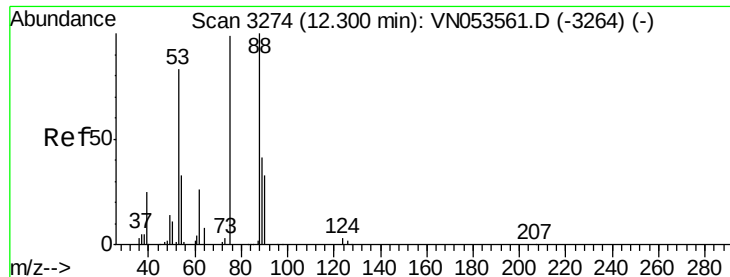
120 46.6 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053561.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN053561.D (-3393) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 107.410 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053805.D

Acq: 15 Feb 2019 17:32

Instrument :

MSVOA_N

ClientSampleId :

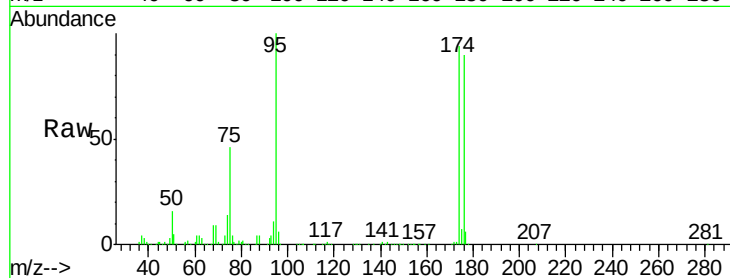
Tot Ion: 75 Resp: 211646

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

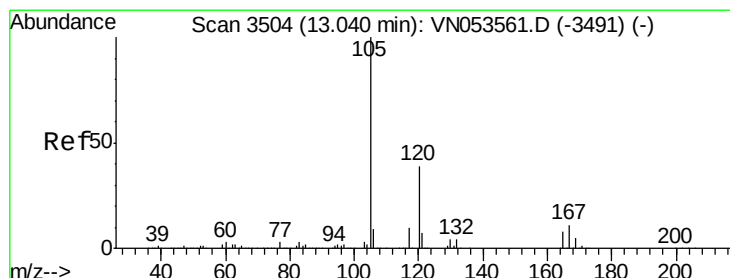
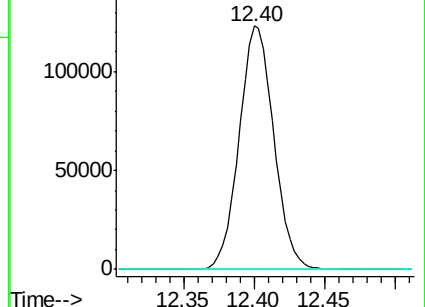
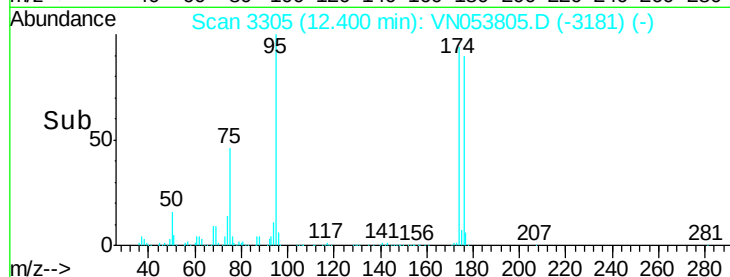
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053805.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053805.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053805.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.490 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053805.D

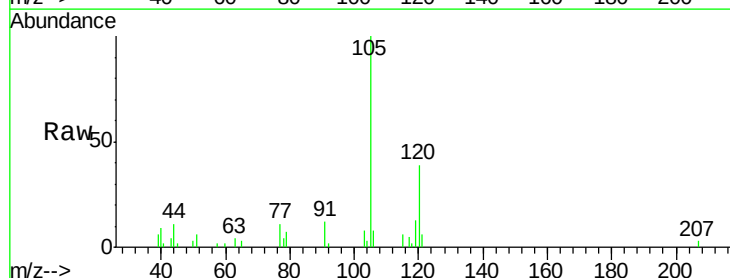
Acq: 15 Feb 2019 17:32

Tgt Ion:105 Resp: 12550

Ion Ratio Lower Upper

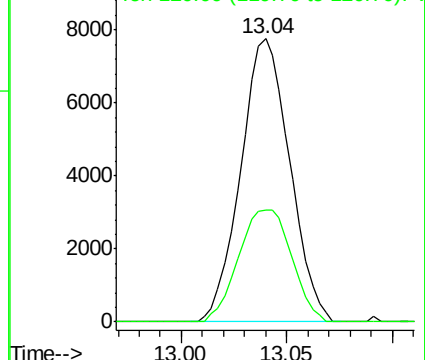
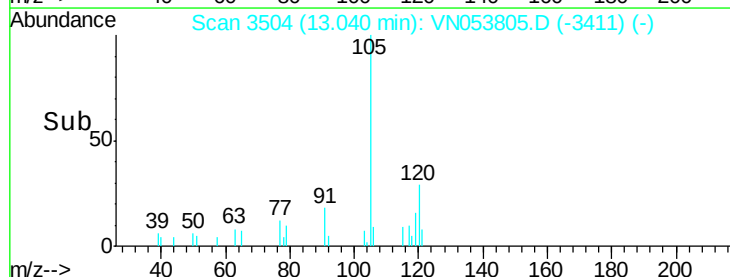
105 100

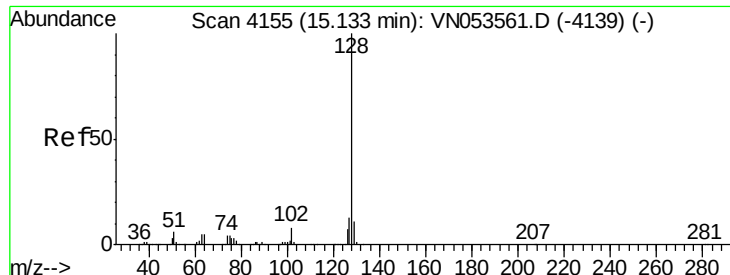
120 42.7 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): VN053805.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN053805.D (-3411) (-)





#95

Naphthalene

Concen: 4.772 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

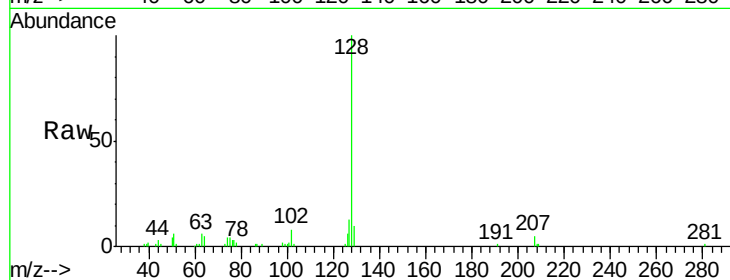
Lab File: VN053805.D

Acq: 15 Feb 2019 17:32

Instrument :

MSVOA_N

ClientSampleId :



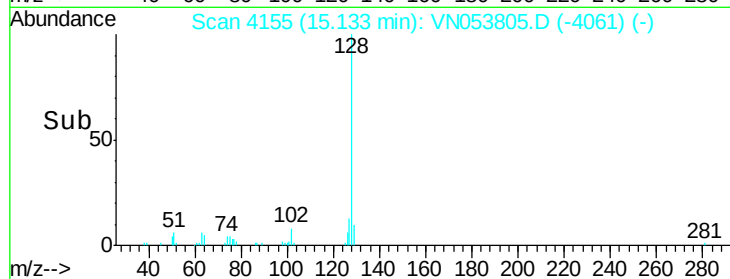
Tot Ion:128 Resp: 59597

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.3	15.5
129	10.4	8.6	13.0

128 100

127 13.2 10.3 15.5

129 10.4 8.6 13.0



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

