

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032819\
 Data File : VN054756.D
 Acq On : 28 Mar 2019 20:21
 Operator : JC/SP
 Sample : K2111-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S5(15)

Quant Time: Mar 29 05:07:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	544647	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	882269	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	742857	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	267430	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	348883	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	
35) Dibromofluoromethane	7.59	113	273380	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
50) Toluene-d8	10.09	98	1044614	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	
62) 4-Bromofluorobenzene	12.40	95	322048	44.29	ug/l	0.00
Spiked Amount			Recovery	=	88.58%	

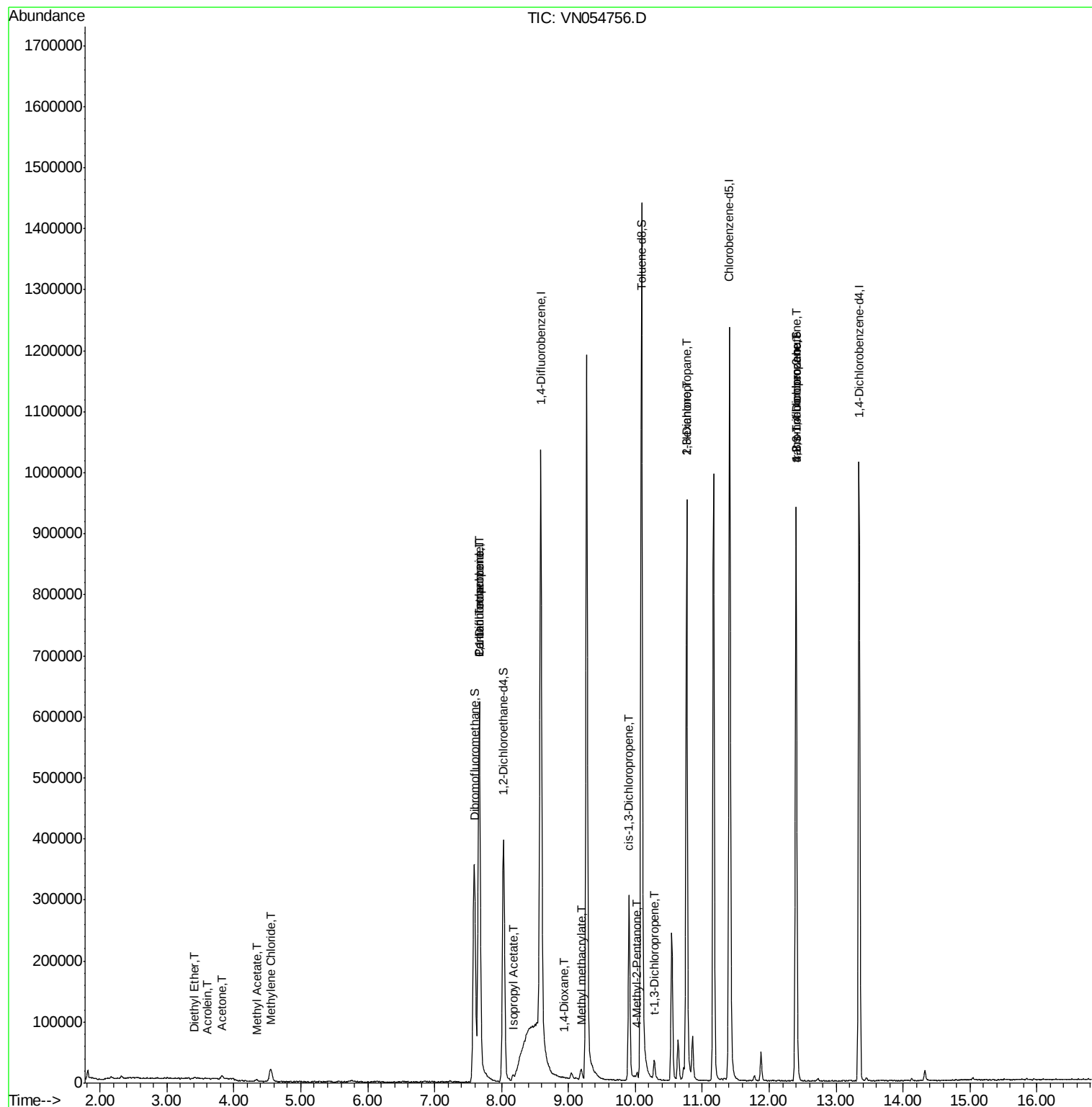
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.42	74	811	0.244	ug/l	57
13) Acrolein	3.61	56	258	0.456	ug/l #	81
16) Acetone	3.82	43	9371	4.601	ug/l	91
18) Methyl Acetate	4.34	43	5556	1.224	ug/l #	77
20) Methylene Chloride	4.55	84	13927	2.320	ug/l	90
31) Cyclohexane	7.66	56	12144	Below Cal	#	34
36) 1,1-Dichloropropene	7.67	75	41006	4.971	ug/l #	48
38) Carbon Tetrachloride	7.67	117	49746	6.205	ug/l #	16
43) Isopropyl Acetate	8.17	43	13694	1.382	ug/l #	77
48) Methyl methacrylate	9.19	41	5850	1.088	ug/l #	11
49) 1,4-Dioxane	8.94	88	29	0.482	ug/l #	27
51) 4-Methyl-2-Pentanone	10.02	43	8907	1.622	ug/l #	36
53) t-1,3-Dichloropropene	10.28	75	66	2.240	ug/l #	72
54) cis-1,3-Dichloropropene	9.90	75	50655	5.633	ug/l #	70
57) 1,3-Dichloropropane	10.76	76	9929	1.095	ug/l #	43
59) 2-Hexanone	10.77	43	159221	44.388	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	167737	39.526	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	167737	130.788	ug/l #	11

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054756.D

Acq: 28 Mar 2019 20:21

Instrument :

MSVOA_N

ClientSampled :

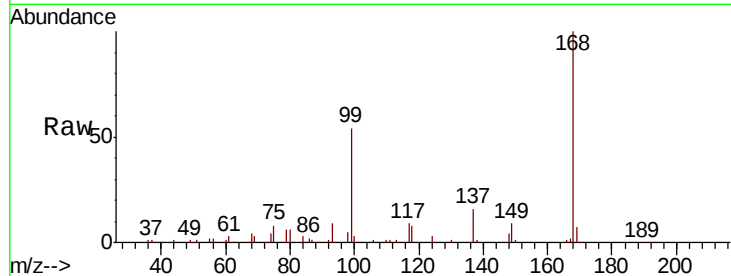
S5(15)

Tot Ion:168 Resp: 544647

Ion Ratio Lower Upper

168 100

99 54.4 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

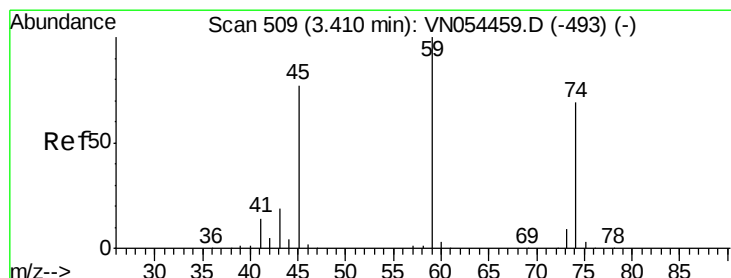
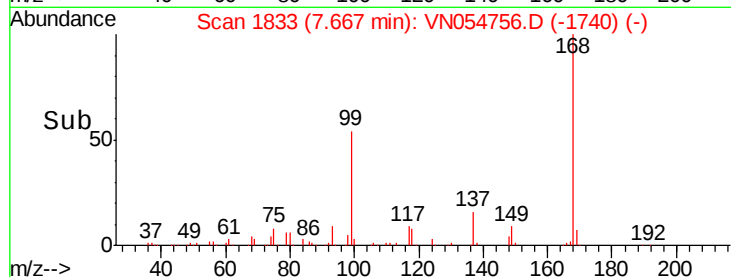
100000

50000

0

7.60 7.65 7.70 7.75

Time-->



#8

Diethyl Ether

Concen: 0.244 ug/l

RT: 3.42 min Scan# 511

Delta R.T. 0.01 min

Lab File: VN054756.D

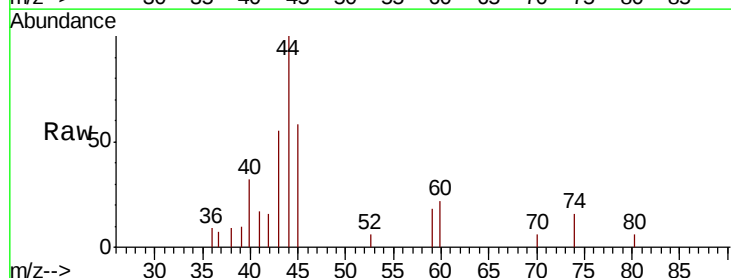
Acq: 28 Mar 2019 20:21

Tgt Ion: 74 Resp: 811

Ion Ratio Lower Upper

74 100

45 125.6 43.1 129.4



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

1500

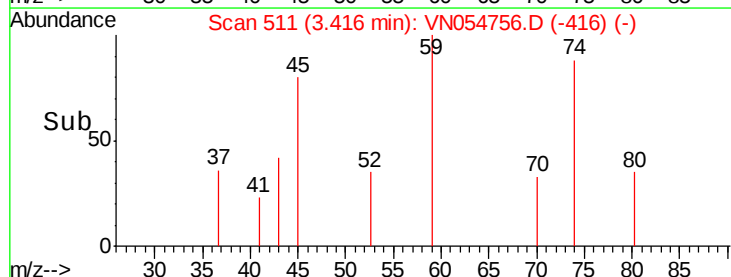
1000

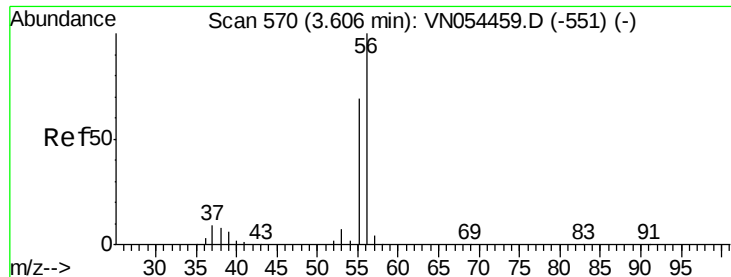
500

0

3.40 3.42 3.44 3.46

Time-->





#13

Acrolein

Concen: 0.456 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN054756.D

Acq: 28 Mar 2019 20:21

Instrument :

MSVOA_N

ClientSampleId :

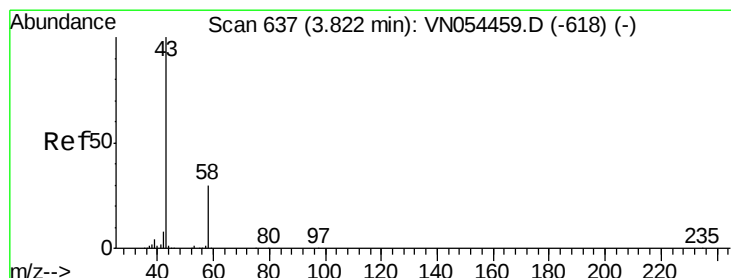
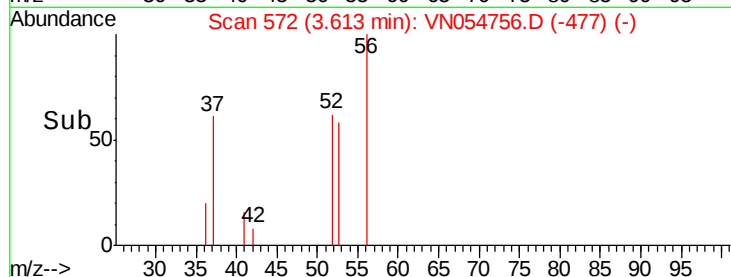
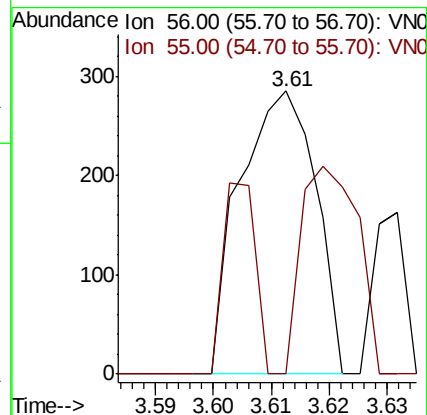
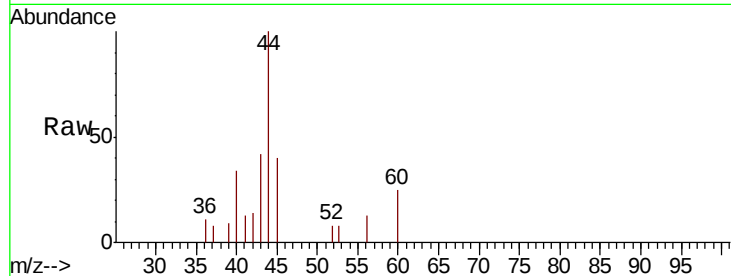
S5(15)

Tot Ion: 56 Resp: 258

Ion Ratio Lower Upper

56 100

55 55.4 56.7 85.1#



#16

Acetone

Concen: 4.601 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN054756.D

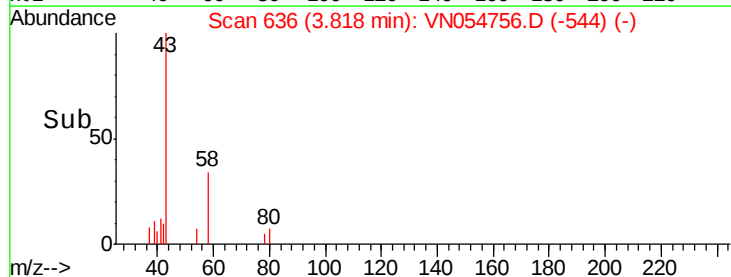
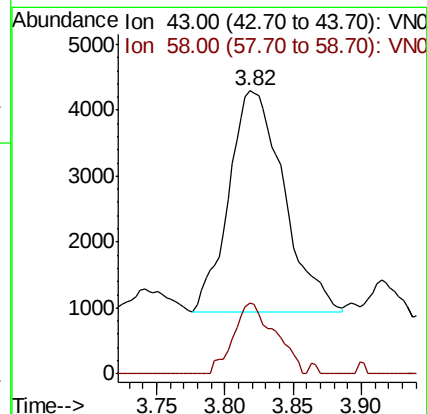
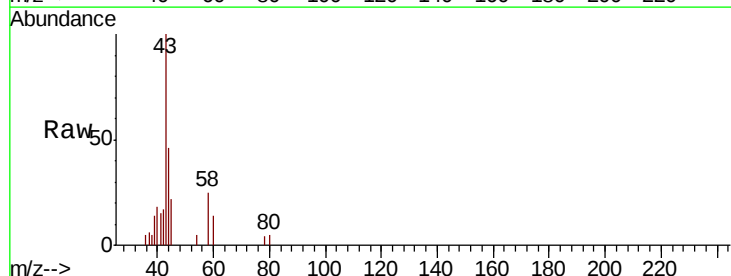
Acq: 28 Mar 2019 20:21

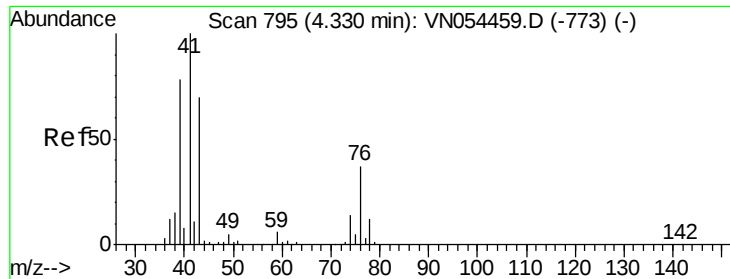
Tgt Ion: 43 Resp: 9371

Ion Ratio Lower Upper

43 100

58 32.2 29.9 44.9

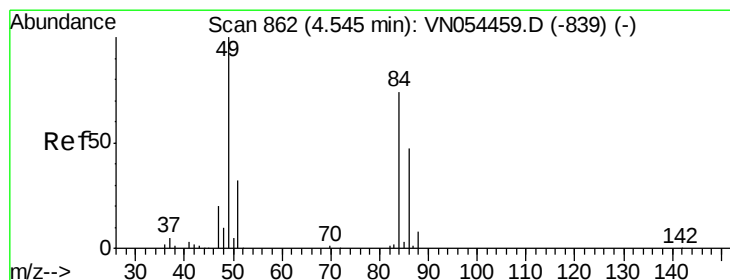
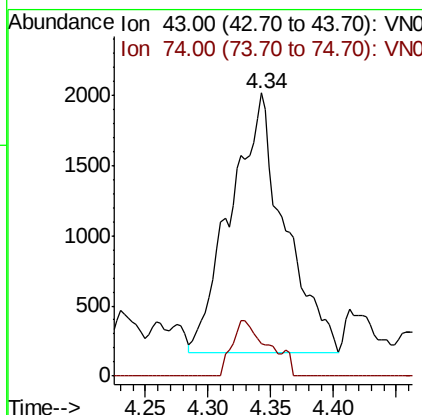
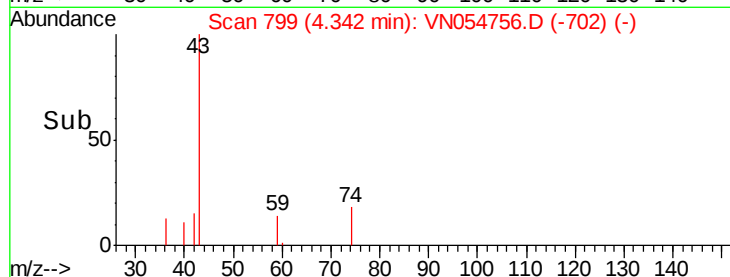
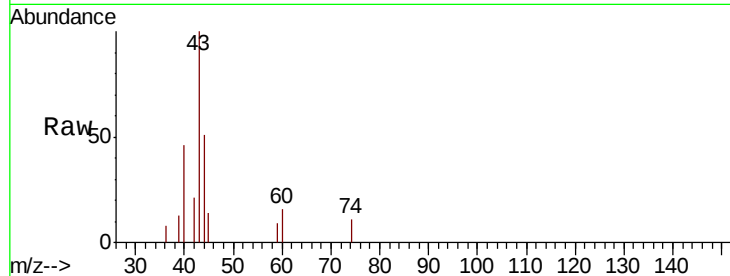




#18
Methyl Acetate
Concen: 1.224 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.01 min
Lab File: VN054756.D
Acq: 28 Mar 2019 20:21

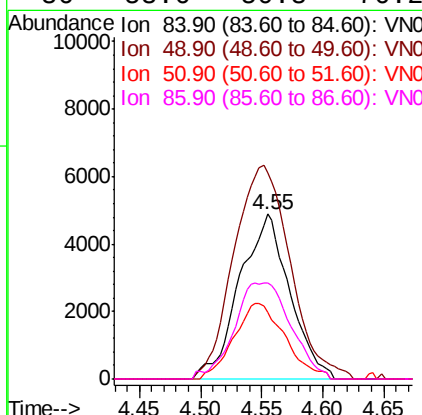
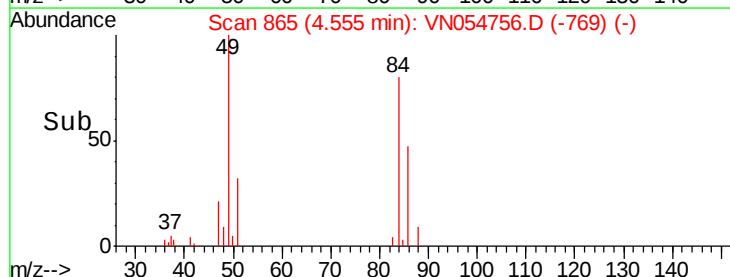
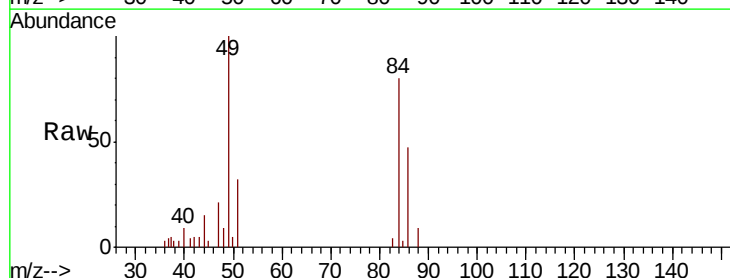
Instrument :
MSVOA_N
ClientSampled :
S5(15)

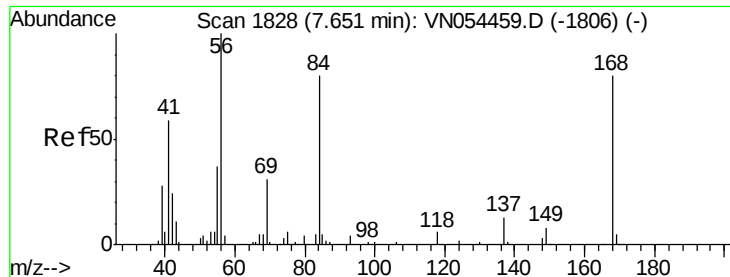
Tot Ion: 43 Resp: 5556
Ion Ratio Lower Upper
43 100
74 14.5 20.8 31.2#



#20
Methylene Chloride
Concen: 2.320 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN054756.D
Acq: 28 Mar 2019 20:21

Tgt Ion: 84 Resp: 13927
Ion Ratio Lower Upper
84 100
49 125.4 89.7 134.5
51 40.7 28.2 42.4
86 58.6 50.8 76.2

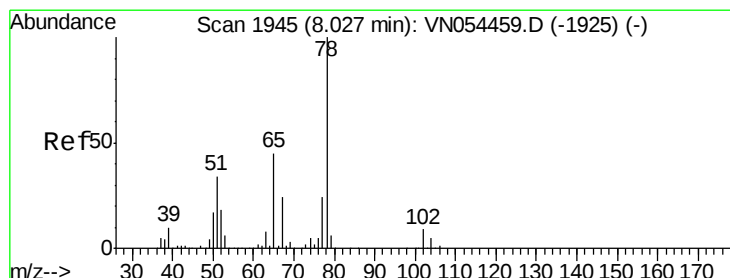
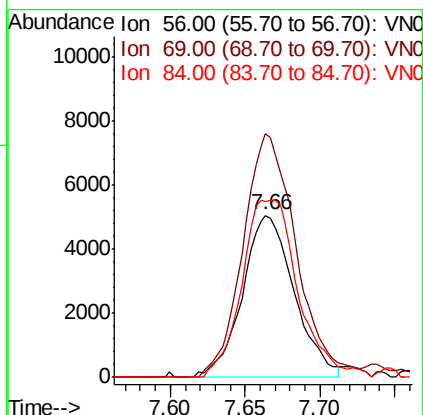
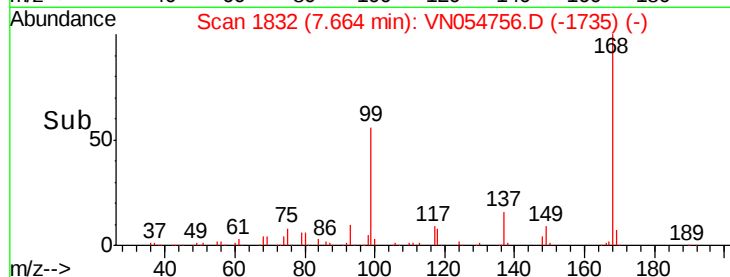
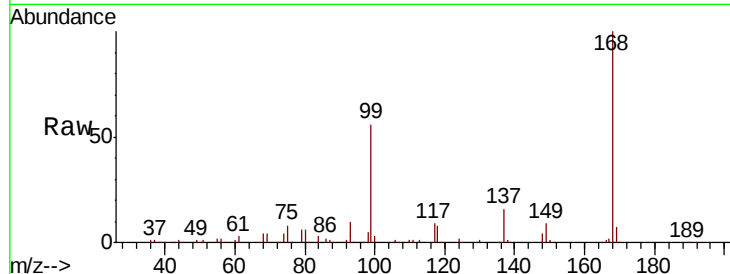




#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054756.D
Acq: 28 Mar 2019 20:21

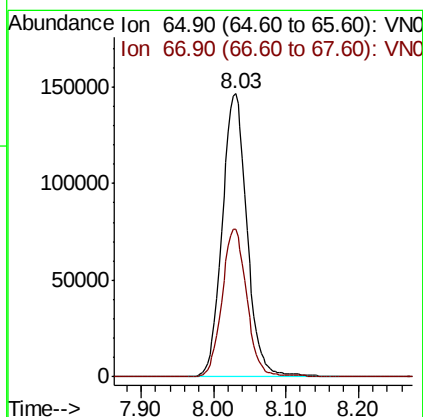
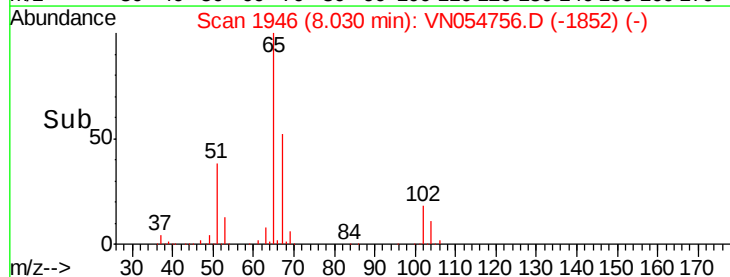
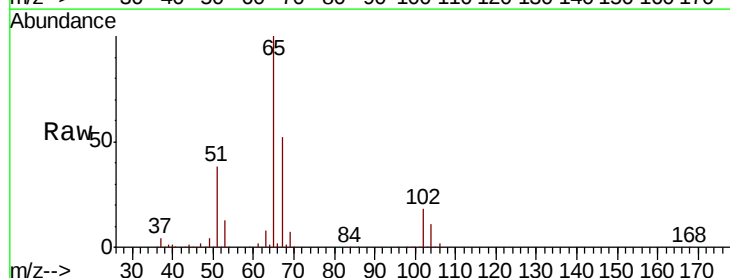
Instrument :
MSVOA_N
ClientSampleId :
S5(15)

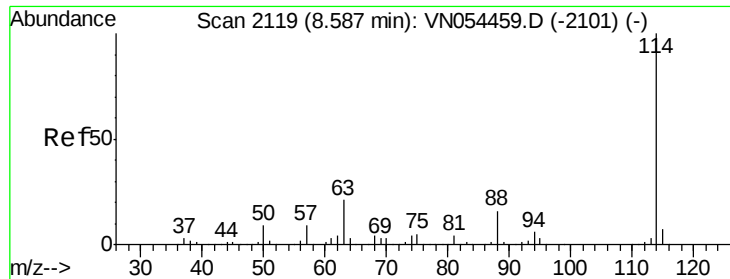
Tot Ion: 56 Resp: 12144
Ion Ratio Lower Upper
56 100
69 150.1 27.8 41.6#
84 108.3 74.6 111.8



#33
1,2-Dichloroethane-d4
Concen: 51.499 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN054756.D
Acq: 28 Mar 2019 20:21

Tgt Ion: 65 Resp: 348883
Ion Ratio Lower Upper
65 100
67 52.0 0.0 104.6

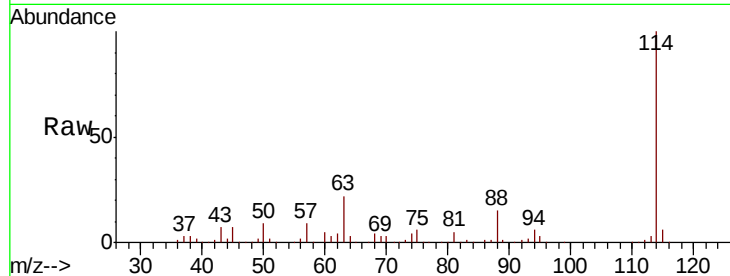




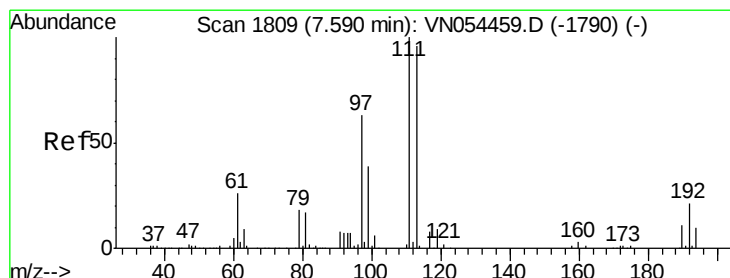
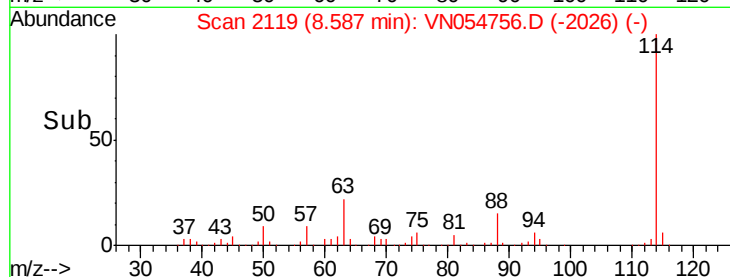
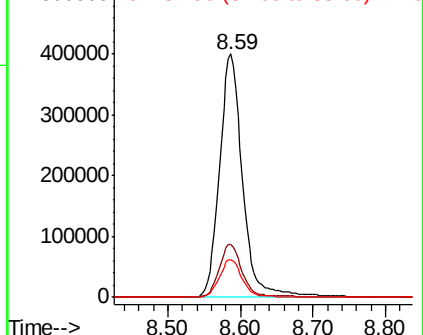
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054756.D
 Acq: 28 Mar 2019 20:21

Instrument :
 MSVOA_N
 ClientSampleId :
 S5(15)

Tot Ion:114 Resp: 882269
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 35.2
 88 15.5 0.0 30.2

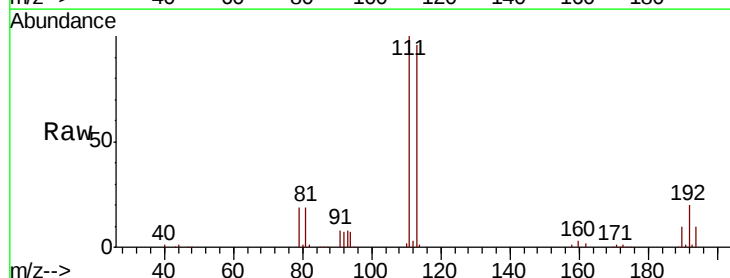


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

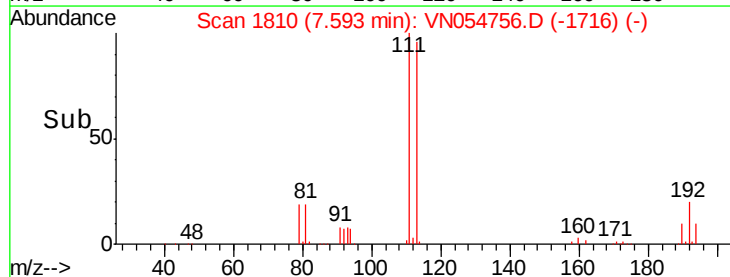
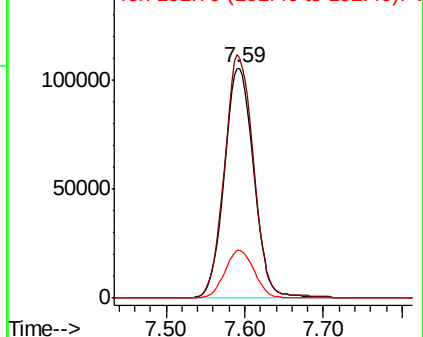


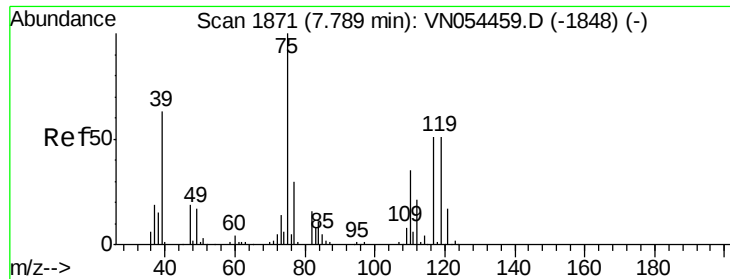
#35
 Dibromofluoromethane
 Concen: 48.096 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054756.D
 Acq: 28 Mar 2019 20:21

Tgt Ion:113 Resp: 273380
 Ion Ratio Lower Upper
 113 100
 111 104.6 82.2 123.4
 192 20.8 19.2 28.8



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

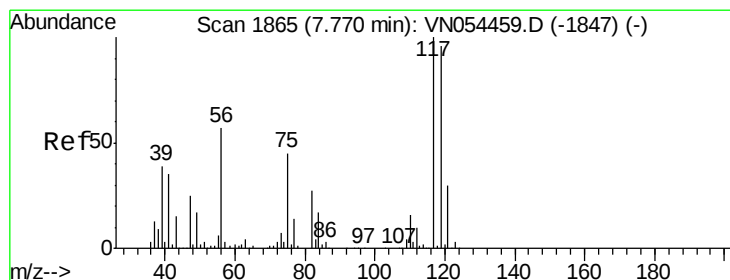
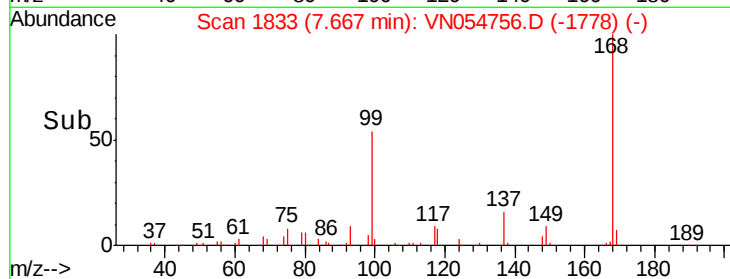
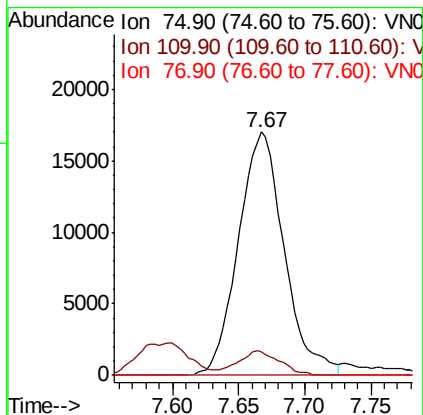
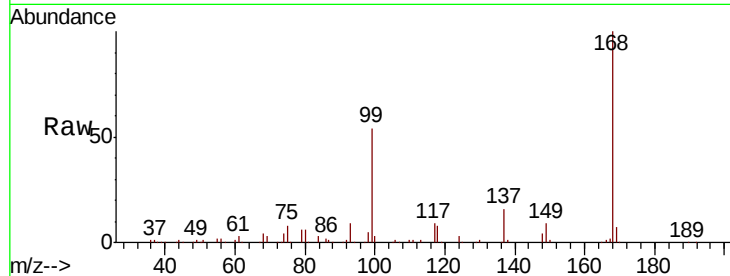




#36
 1,1-Dichloropropene
 Concen: 4.971 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054756.D
 Acq: 28 Mar 2019 20:21

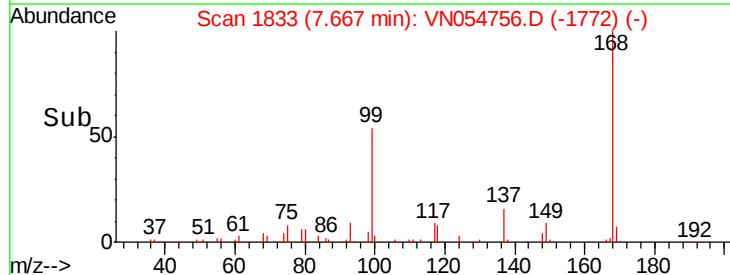
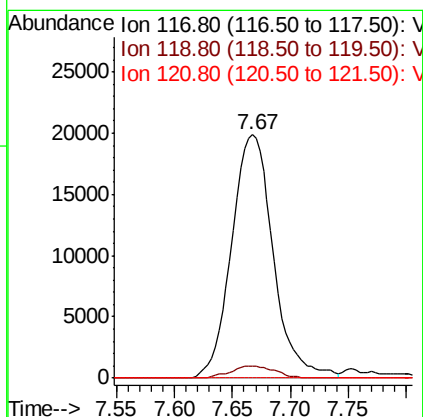
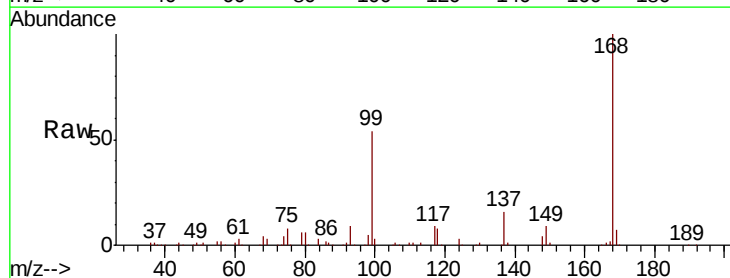
Instrument :
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 ClientSampleId :
 S5(15)

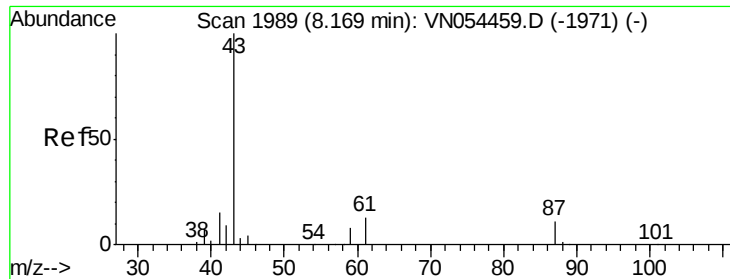
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.205 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.10 min
 Lab File: VN054756.D
 Acq: 28 Mar 2019 20:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 1.382 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054756.D

Acq: 28 Mar 2019 20:21

Instrument :

MSVOA_N

ClientSampleId :

S5(15)

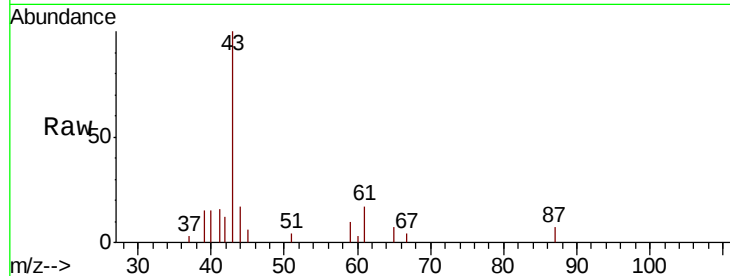
Tot Ion: 43 Resp: 13694

Ion Ratio Lower Upper

43 100

61 9.7 15.8 23.8#

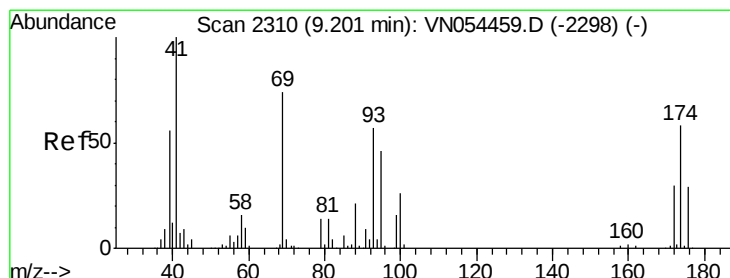
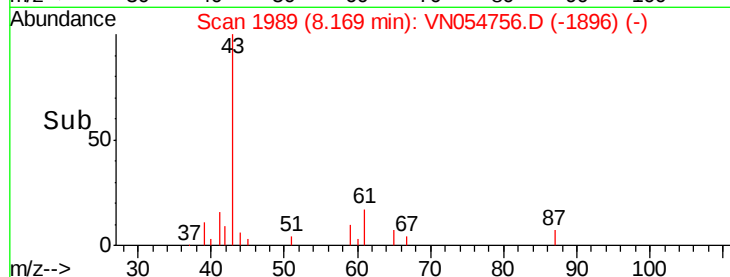
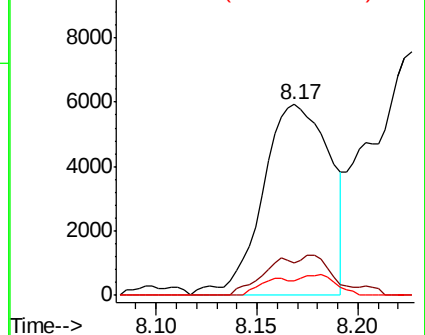
87 4.5 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.088 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. -0.01 min

Lab File: VN054756.D

Acq: 28 Mar 2019 20:21

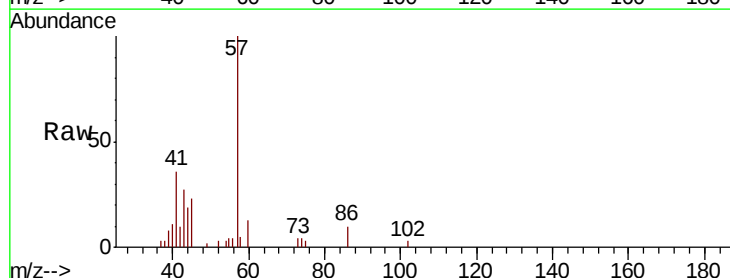
Tgt Ion: 41 Resp: 5850

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

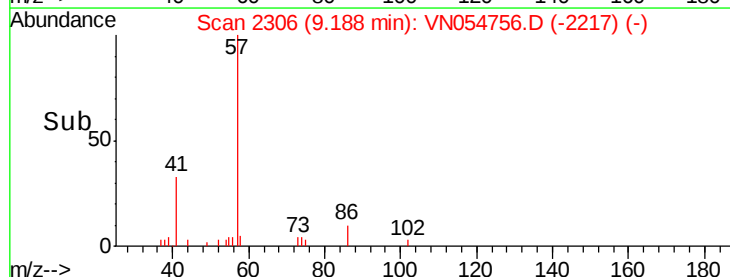
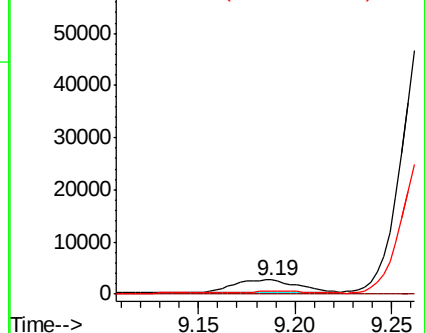
39 0.0 47.5 71.3#

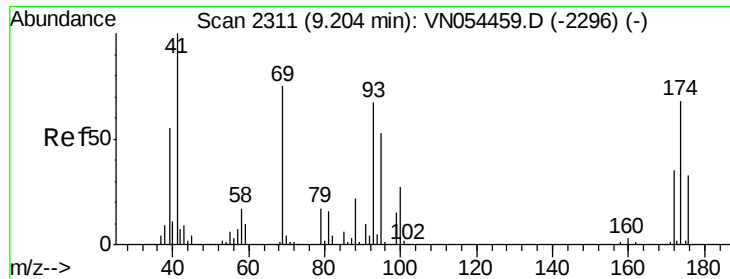


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 0.482 ug/l

RT: 8.94 min Scan# 2230

Delta R.T. -0.26 min

Lab File: VN054756.D

Acq: 28 Mar 2019 20:21

Instrument :

MSVOA_N

ClientSampleId :

S5(15)

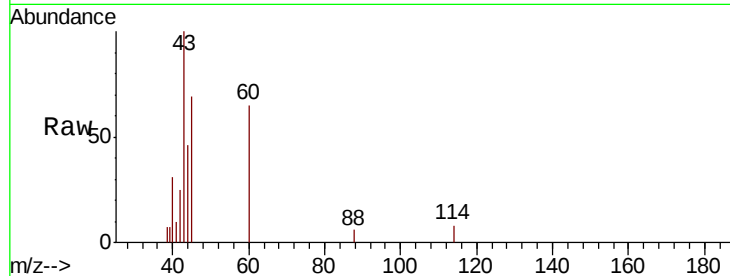
Tot Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 0.0 24.1 36.1#

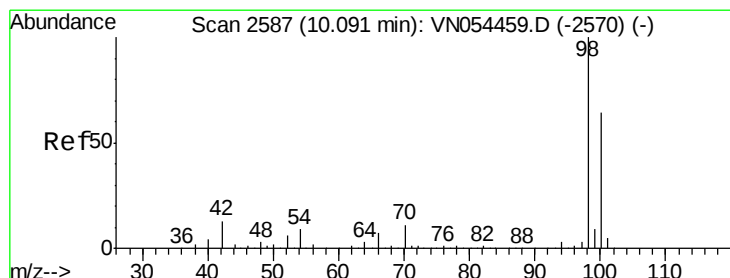
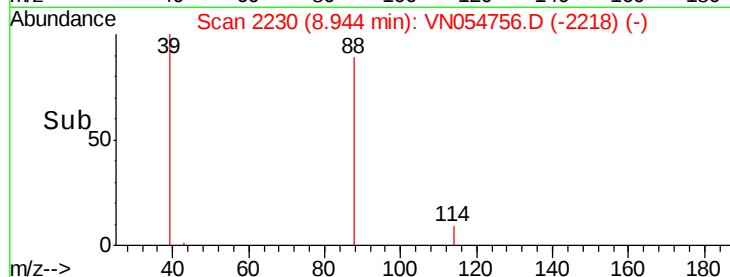
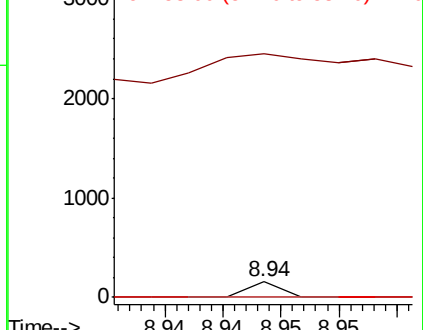
58 0.0 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.886 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054756.D

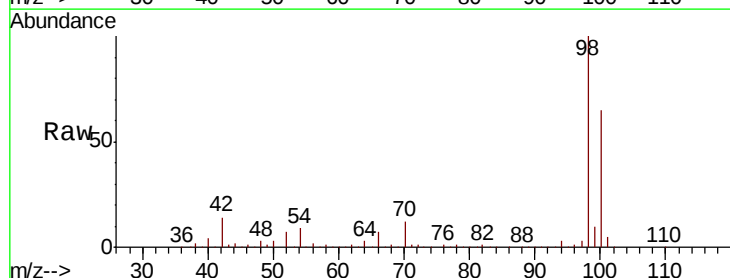
Acq: 28 Mar 2019 20:21

Tgt Ion: 98 Resp: 1044614

Ion Ratio Lower Upper

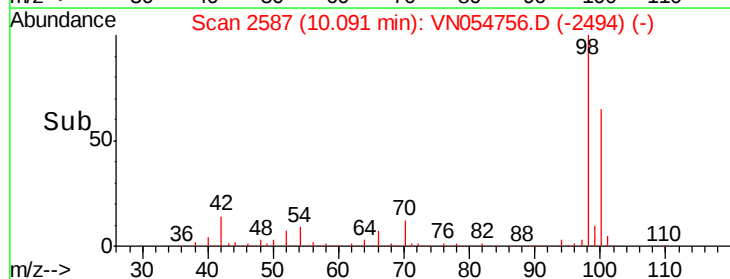
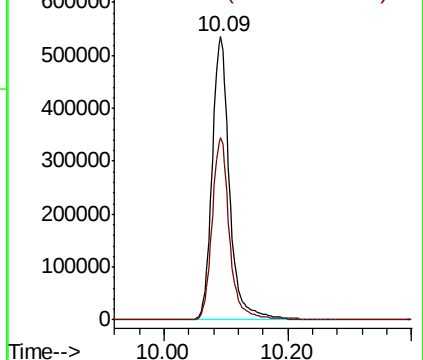
98 100

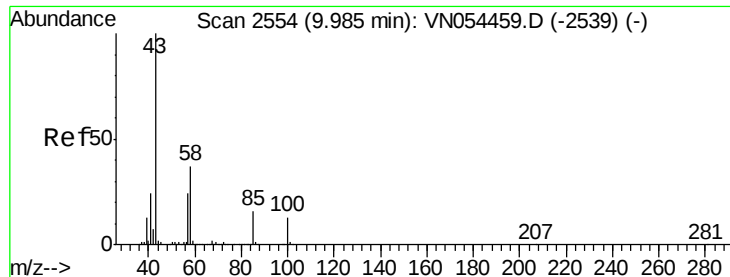
100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.622 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN054756.D

Acq: 28 Mar 2019 20:21

Instrument :

MSVOA_N

ClientSampled :

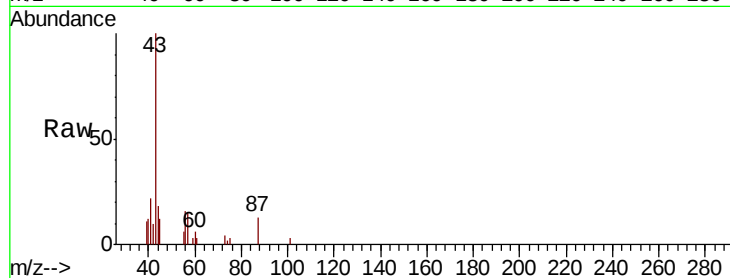
S5(15)

Tot Ion: 43 Resp: 8907

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.02

6000

4000

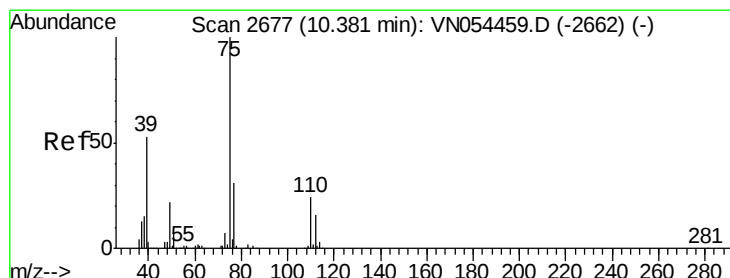
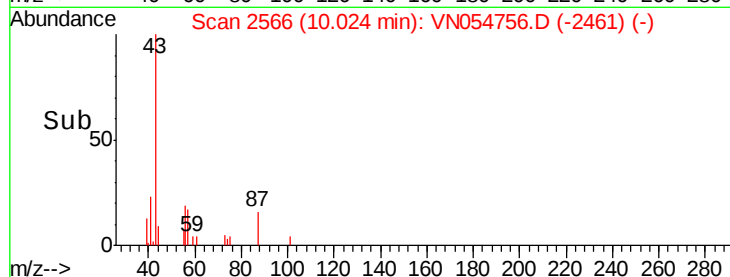
2000

0

Time-->

10.00

10.05



#53

t-1,3-Dichloropropene

Concen: 2.240 ug/l

RT: 10.28 min Scan# 2647

Delta R.T. -0.10 min

Lab File: VN054756.D

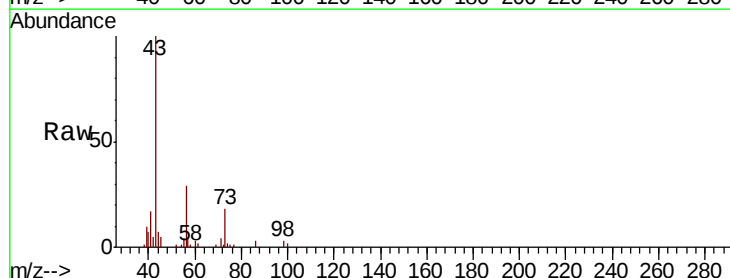
Acq: 28 Mar 2019 20:21

Tgt Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

77 16.4 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

600

400

200

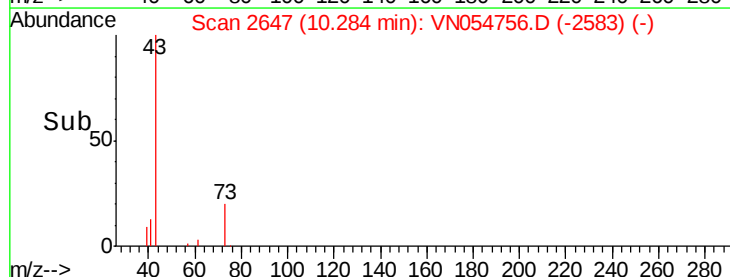
0

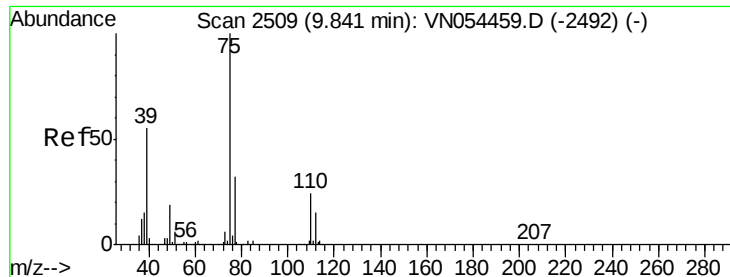
Time-->

10.27

10.28

10.29





#54

cis-1,3-Dichloropropene

Concen: 5.633 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054756.D

Acq: 28 Mar 2019 20:21

Instrument :

MSVOA_N

ClientSampleId :

S5(15)

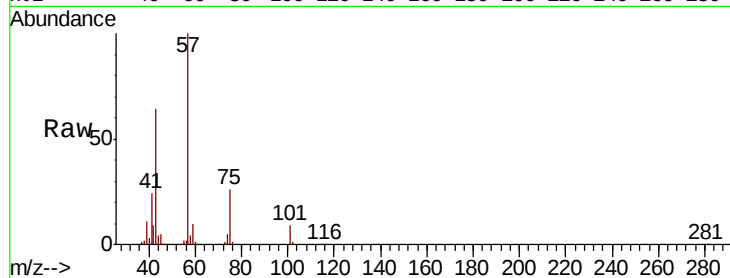
Tot Ion: 75 Resp: 50655

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

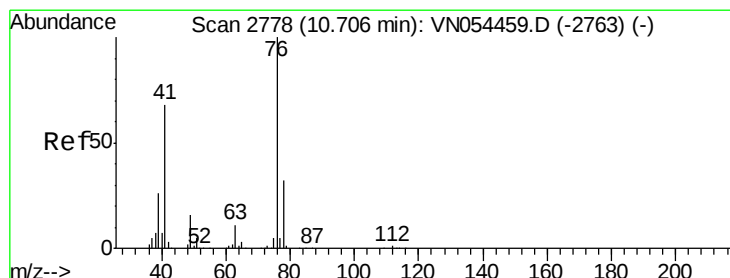
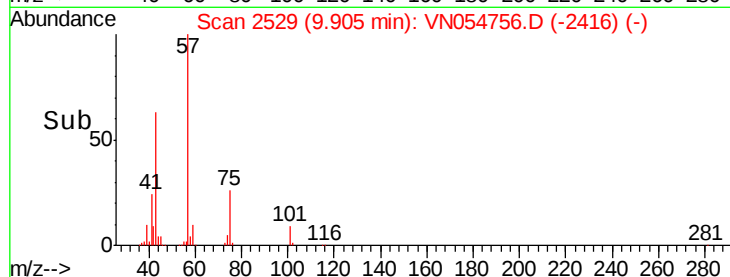
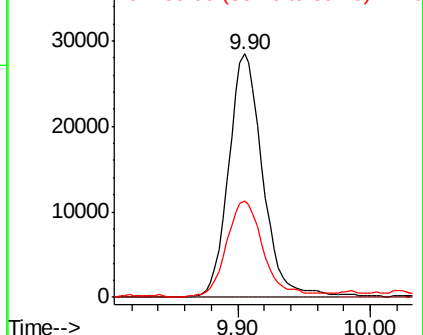
39 39.3 37.2 55.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.095 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054756.D

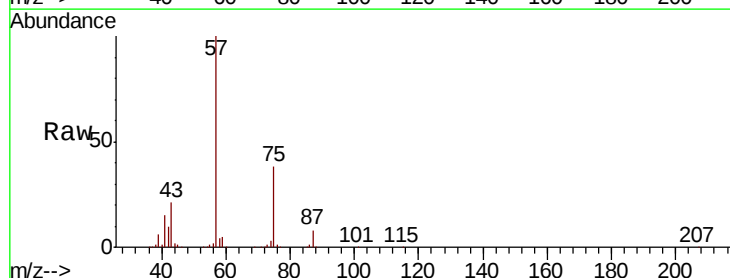
Acq: 28 Mar 2019 20:21

Tgt Ion: 76 Resp: 9929

Ion Ratio Lower Upper

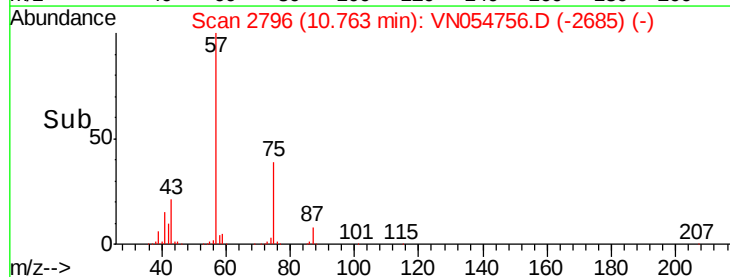
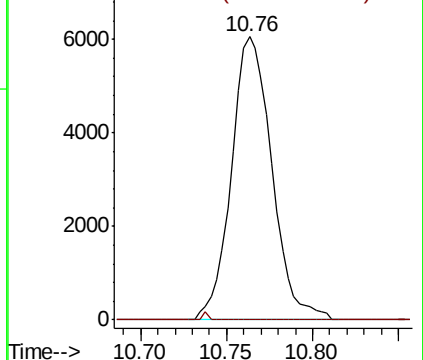
76 100

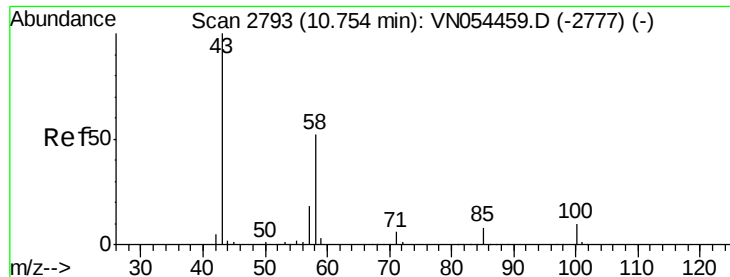
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

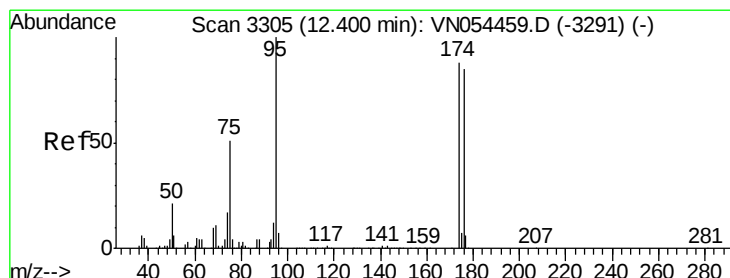
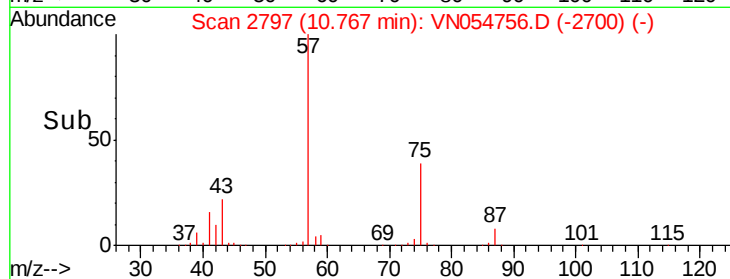
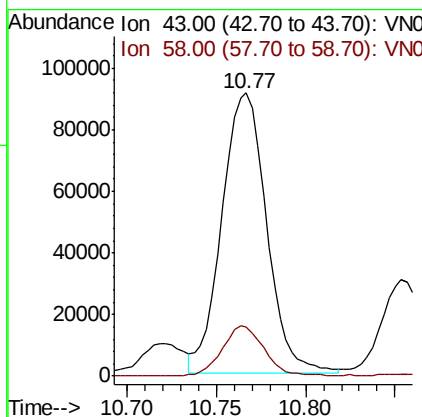
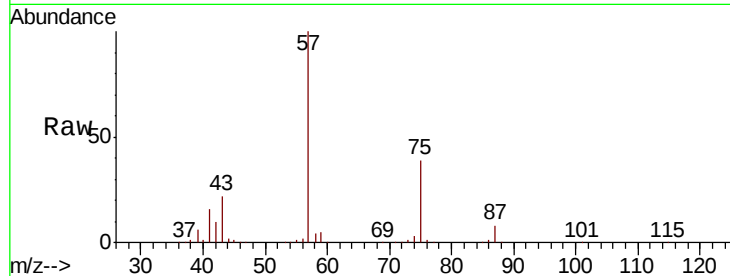




#59
2-Hexanone
Concen: 44.388 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN054756.D
Acq: 28 Mar 2019 20:21

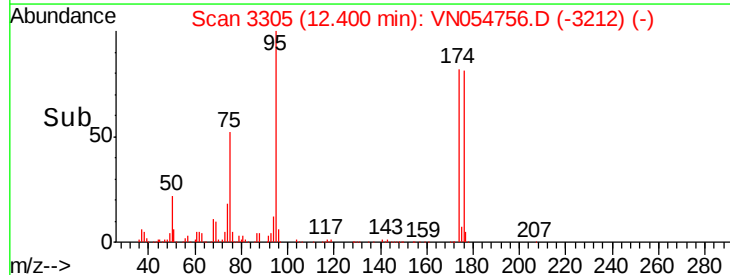
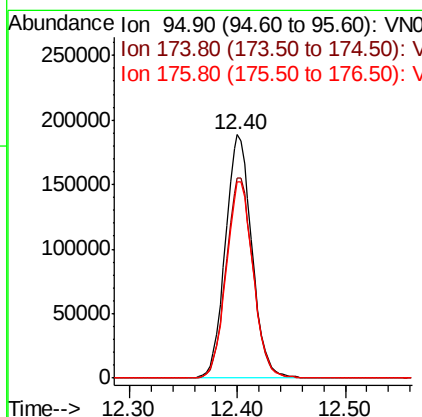
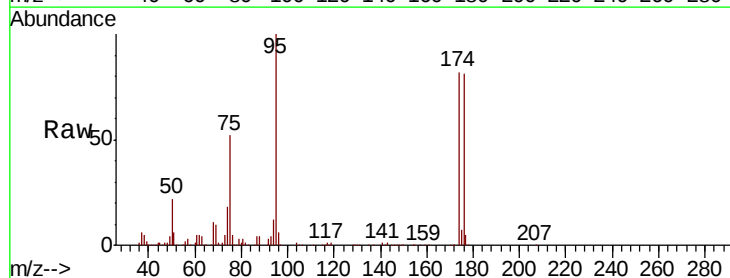
Instrument :
MSVOA_N
ClientSampled :
S5(15)

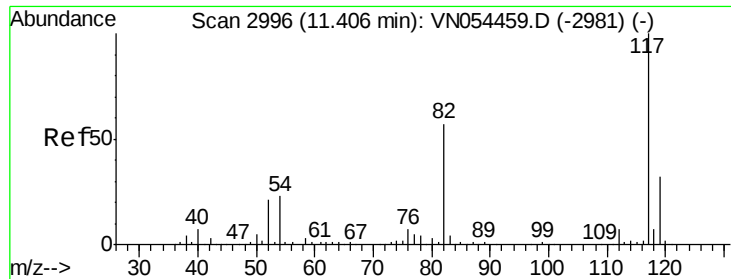
Tot Ion: 43 Resp: 159221
Ion Ratio Lower Upper
43 100
58 16.9 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 44.290 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054756.D
Acq: 28 Mar 2019 20:21

Tgt Ion: 95 Resp: 322048
Ion Ratio Lower Upper
95 100
174 83.8 0.0 191.0
176 82.0 0.0 187.4

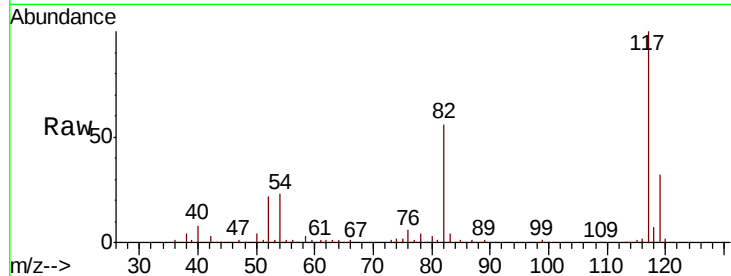




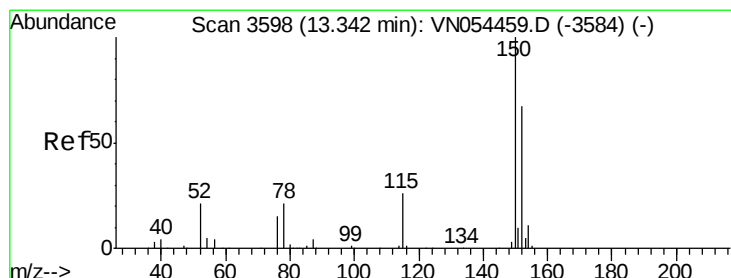
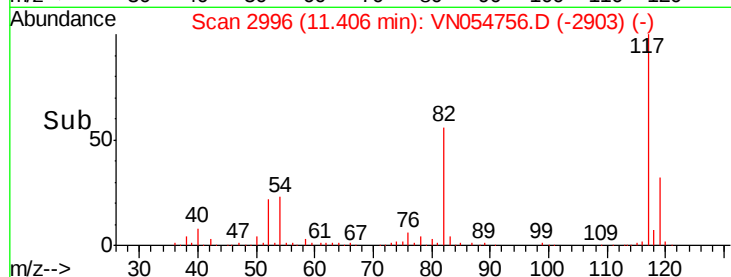
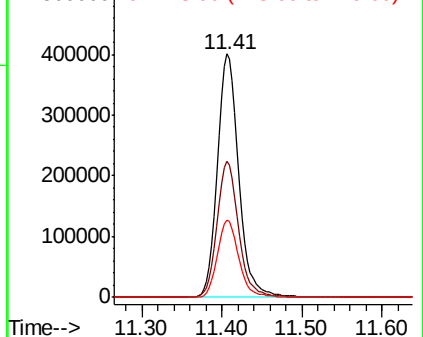
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054756.D
Acq: 28 Mar 2019 20:21

Instrument :
MSVOA_N
ClientSampled :
S5(15)

Tot Ion:117 Resp: 742857
Ion Ratio Lower Upper
117 100
82 56.0 40.0 60.0
119 31.7 25.8 38.6

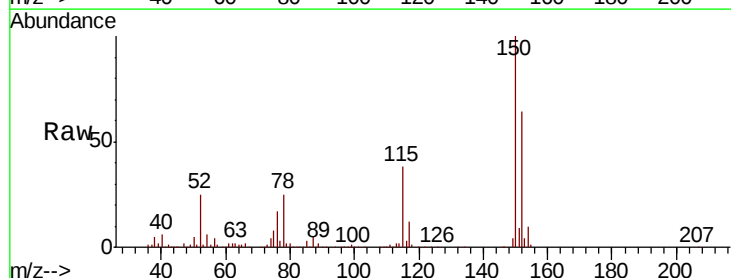


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

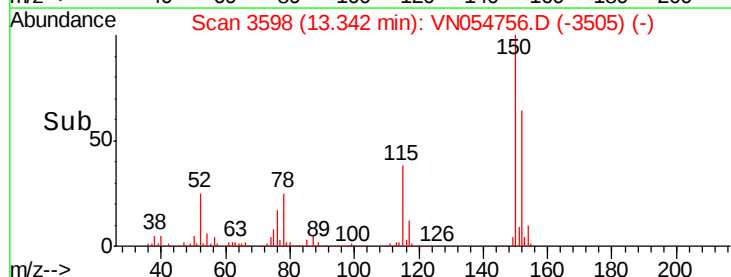
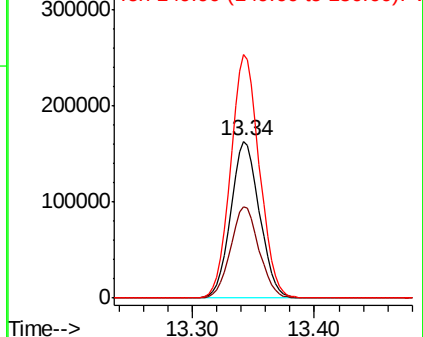


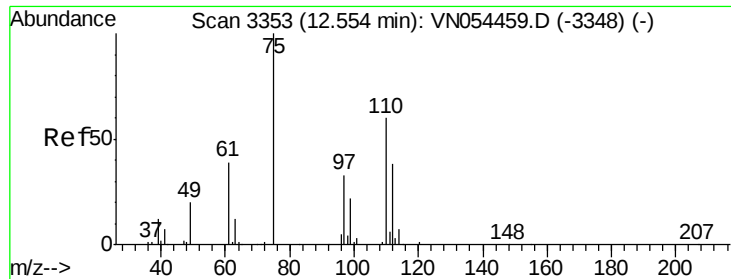
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054756.D
Acq: 28 Mar 2019 20:21

Tgt Ion:152 Resp: 267430
Ion Ratio Lower Upper
152 100
115 58.1 27.2 81.6
150 155.2 0.0 349.2



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





#76

1,2,3-Trichloropropane

Concen: 39.526 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054756.D

Acq: 28 Mar 2019 20:21

Instrument :

MSVOA_N

ClientSampled :

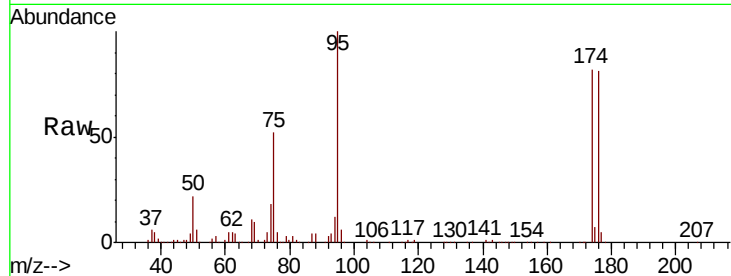
S5(15)

Tot Ion: 75 Resp: 167737

Ion Ratio Lower Upper

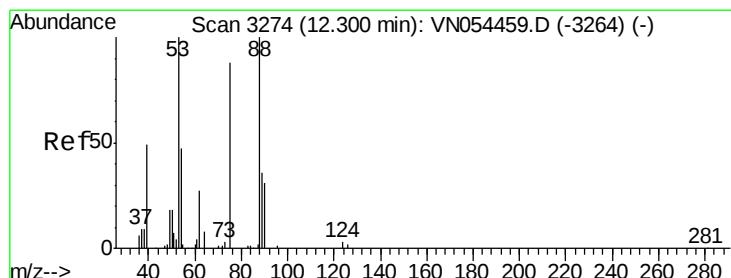
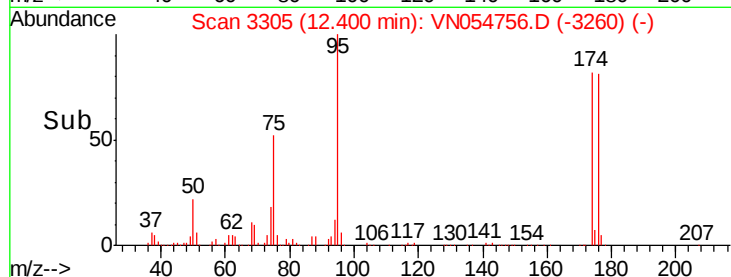
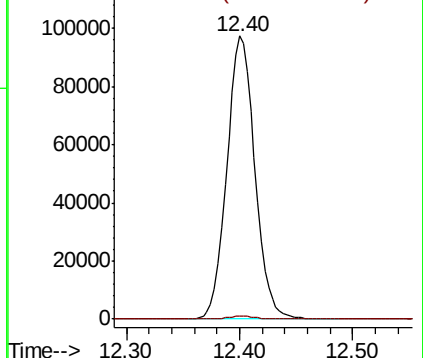
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 130.788 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054756.D

Acq: 28 Mar 2019 20:21

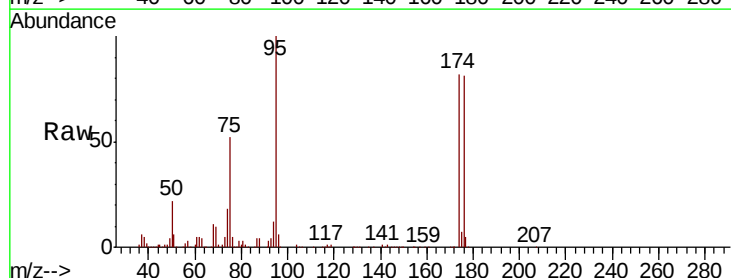
Tgt Ion: 75 Resp: 167737

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

