

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062519\
 Data File : VN056490.D
 Acq On : 25 Jun 2019 16:34
 Operator : JC/SP
 Sample : K3519-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2

Quant Time: Jun 26 03:43:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	354917	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	608877	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	592585	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	170707	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	203533	51.74	ug/l	0.00
Spiked Amount						
				Recovery	=	103.48%
35) Dibromofluoromethane	7.59	113	179037	47.13	ug/l	0.00
Spiked Amount						
				Recovery	=	94.26%
50) Toluene-d8	10.09	98	754734	51.07	ug/l	0.00
Spiked Amount						
				Recovery	=	102.14%
62) 4-Bromofluorobenzene	12.40	95	239689	48.65	ug/l	0.00
Spiked Amount						
				Recovery	=	97.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Trichlorofluoromethane	3.00	101	2939	0.575	ug/l	85
11) Tert butyl alcohol	4.75	59	1108	1.672	ug/l #	74
16) Acetone	3.83	43	1172	0.595	ug/l #	42
18) Methyl Acetate	4.34	43	10823	1.970	ug/l #	69
20) Methylene Chloride	4.56	84	29	Below Cal	#	7
31) Cyclohexane	7.67	56	5893	0.970	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	22610	4.219	ug/l #	49
38) Carbon Tetrachloride	7.67	117	30722	6.555	ug/l #	15
43) Isopropyl Acetate	8.30	43	148926	18.338	ug/l #	54
71) Bromoform	12.40	173	1848	3.676	ug/l #	1
73) Isopropylbenzene	12.39	105	134	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	109768	31.011	ug/l #	100
79) 2-Chlorotoluene	12.40	91	708	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	12.40	75	109768	110.218	ug/l #	8
95) Naphthalene	15.14	128	59	5.251	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056490.D

Acq: 25 Jun 2019 16:34

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MSVOA_N

ClientSampleId :

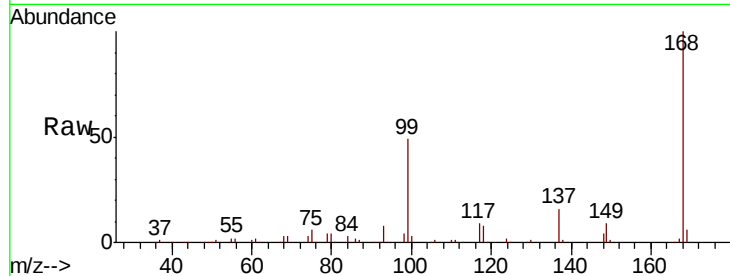
SP-19-LF2MW2

Tot Ion:168 Resp: 354917

Ion Ratio Lower Upper

168 100

99 49.1 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.67

150000

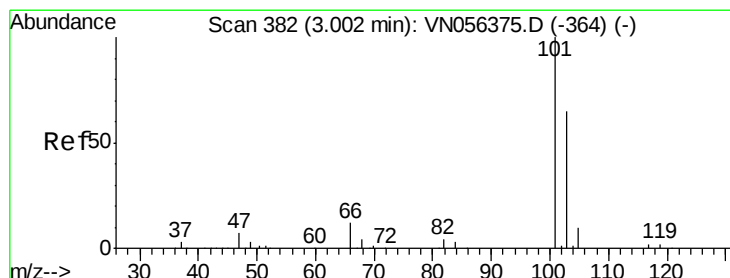
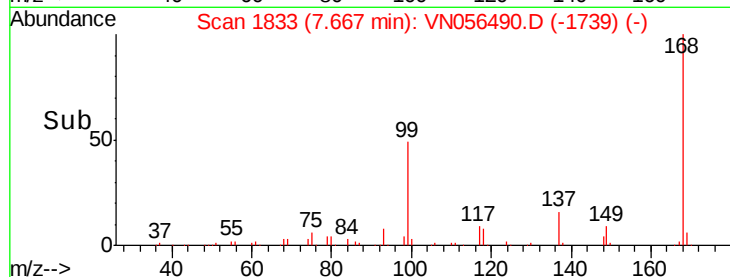
100000

50000

0

Time-->

7.60 7.70 7.80



#7

Trichlorofluoromethane

Concen: 0.575 ug/l

RT: 3.00 min Scan# 383

Delta R.T. 0.00 min

Lab File: VN056490.D

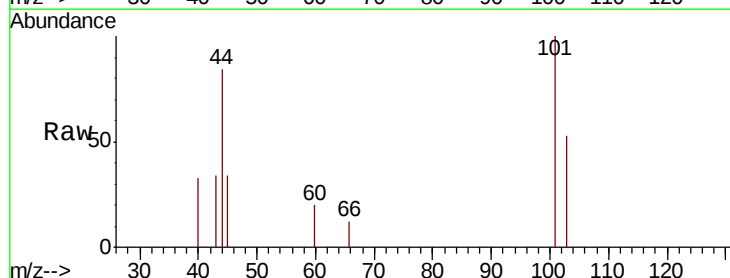
Acq: 25 Jun 2019 16:34

Tgt Ion:101 Resp: 2939

Ion Ratio Lower Upper

101 100

103 52.7 51.7 77.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.00

1500

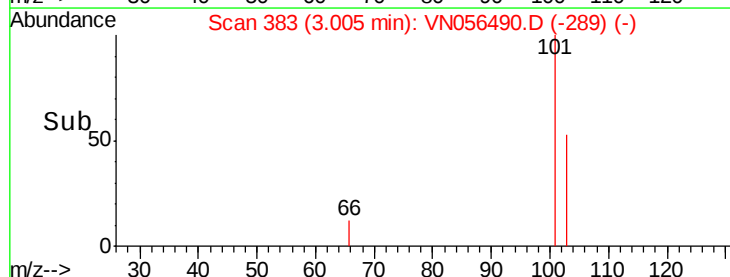
1000

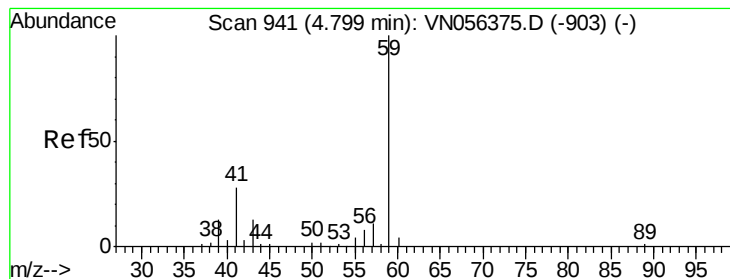
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0

Time-->

2.95 3.00 3.05



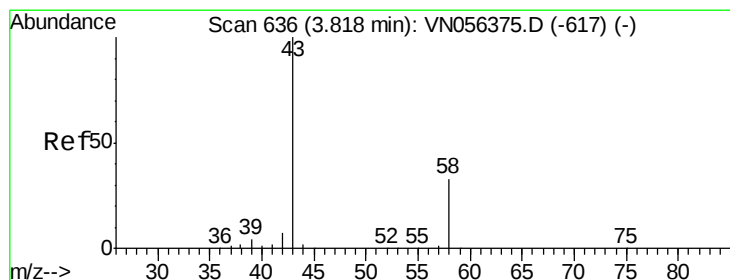
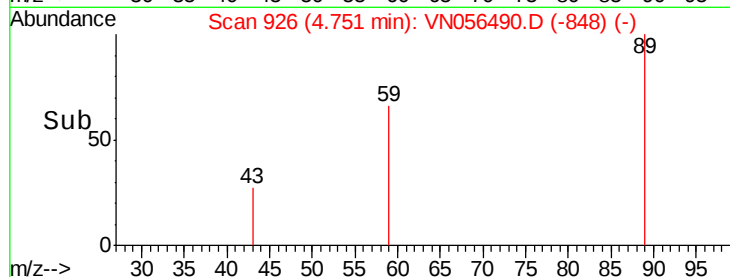
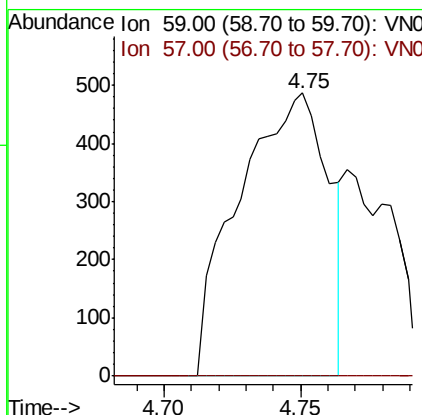
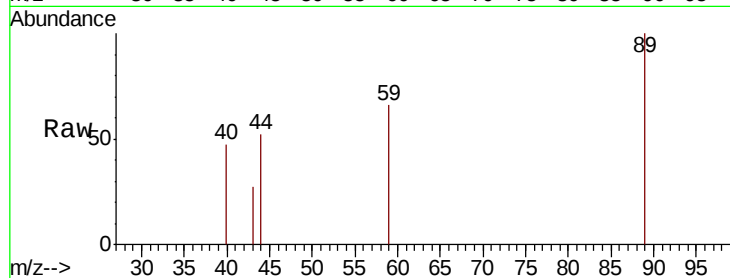


#11

Tert butyl alcohol
 Concen: 1.672 ug/l
 RT: 4.75 min Scan# 926
 Delta R.T. -0.05 min
 Lab File: VN056490.D
 Acq: 25 Jun 2019 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2

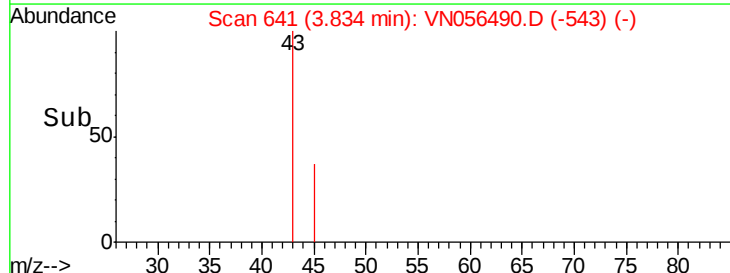
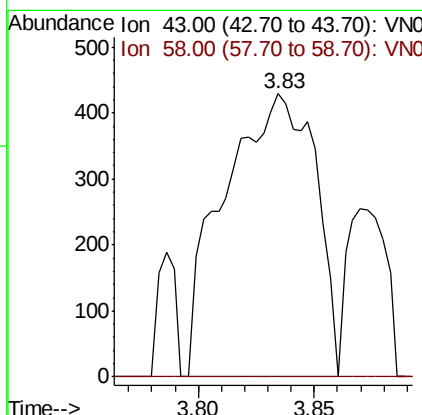
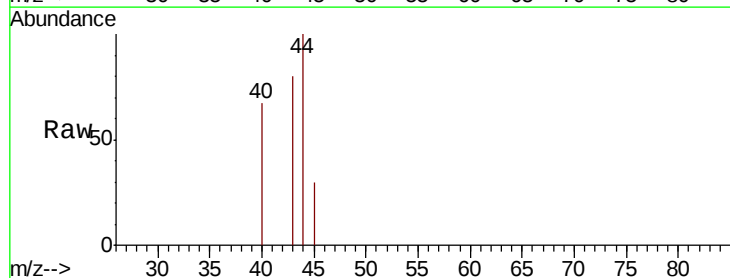
Tot Ion: 59 Resp: 1108
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.6 11.4#

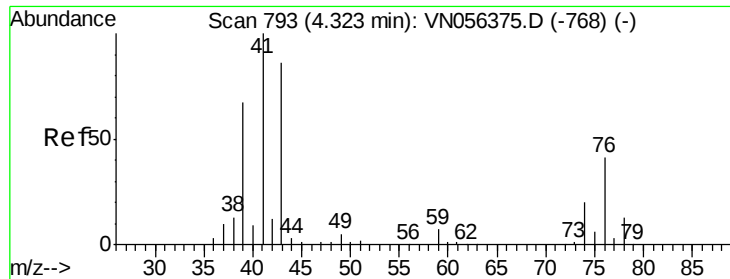


#16

Acetone
 Concen: 0.595 ug/l
 RT: 3.83 min Scan# 641
 Delta R.T. 0.02 min
 Lab File: VN056490.D
 Acq: 25 Jun 2019 16:34

Tgt Ion: 43 Resp: 1172
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.4 39.6#

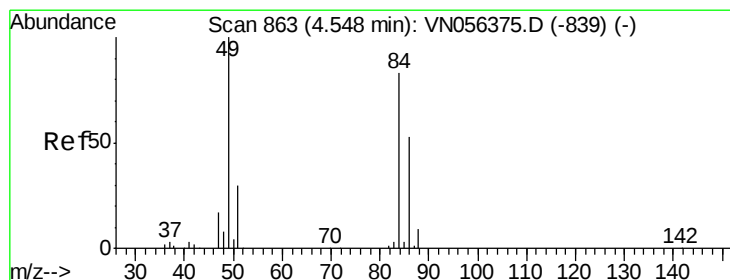
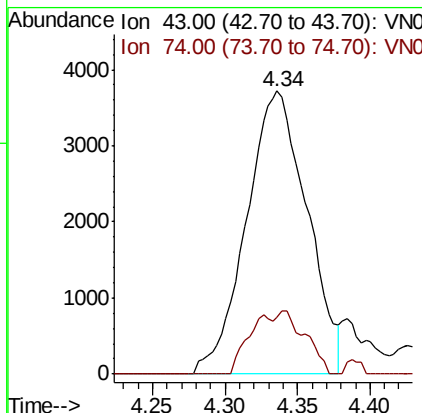
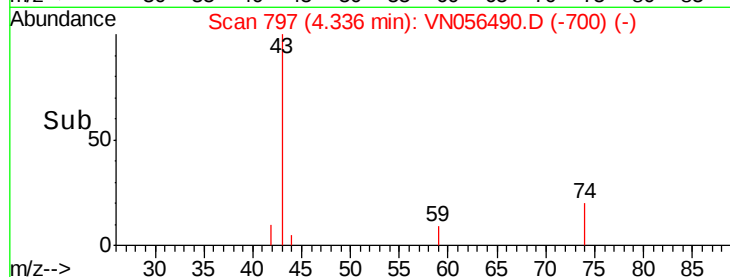
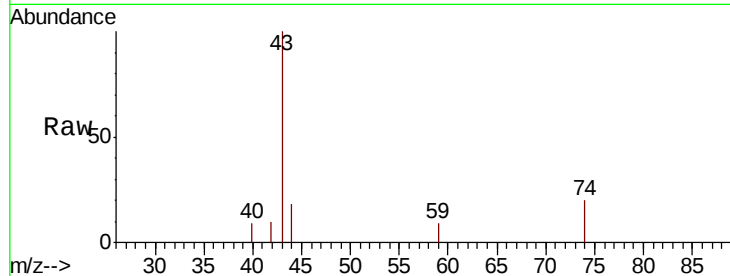




#18
Methyl Acetate
Concen: 1.970 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN056490.D
Acq: 25 Jun 2019 16:34

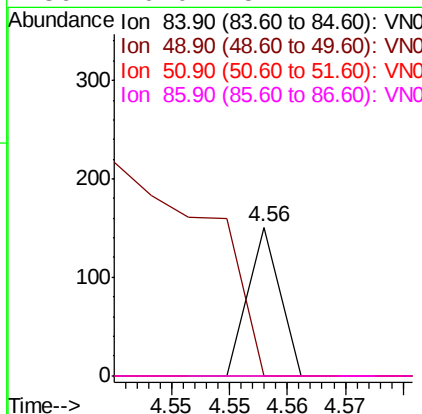
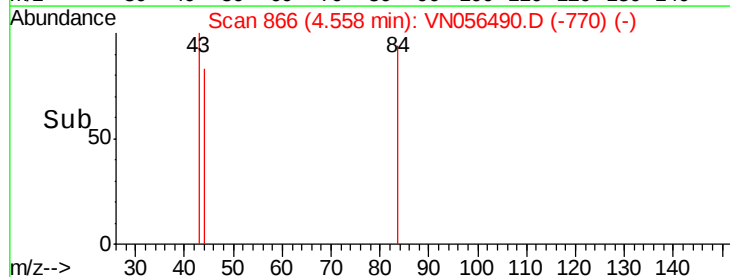
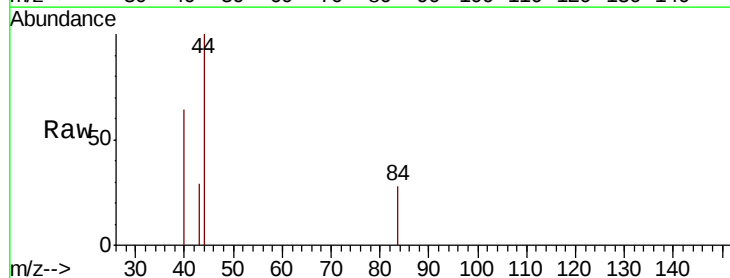
Instrument :
MSVOA_N
ClientSampleId :
SP-19-LF2MW2

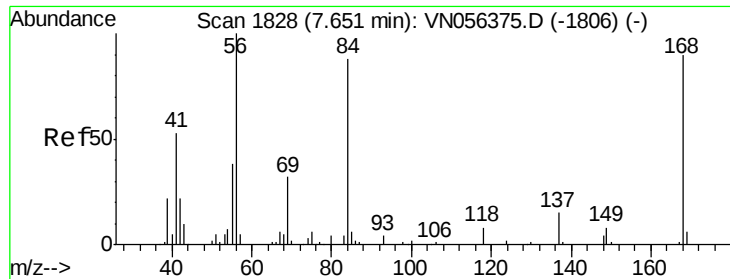
Tot Ion: 43 Resp: 10823
Ion Ratio Lower Upper
43 100
74 8.9 19.2 28.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN056490.D
Acq: 25 Jun 2019 16:34

Tgt Ion: 84 Resp: 29
Ion Ratio Lower Upper
84 100
49 0.0 96.4 144.6#
51 0.0 28.6 43.0#
86 0.0 51.4 77.2#

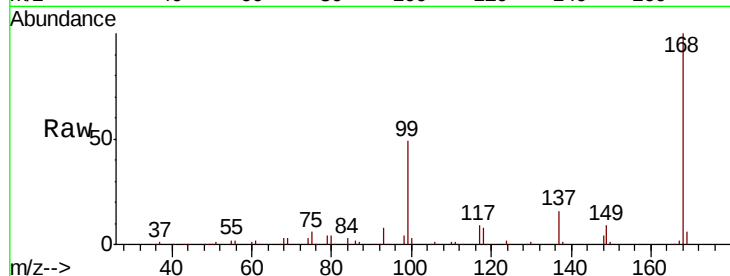




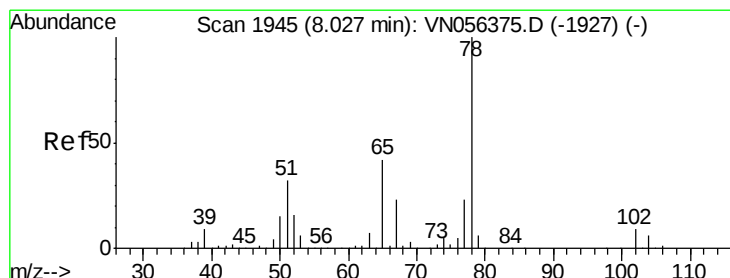
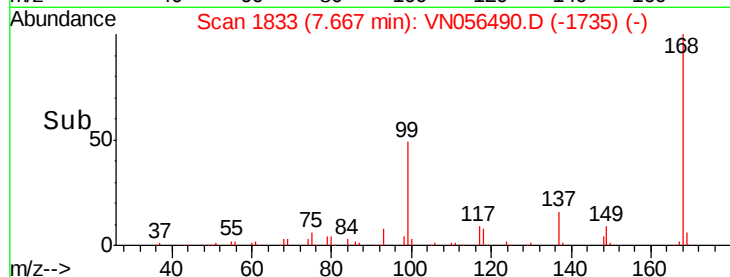
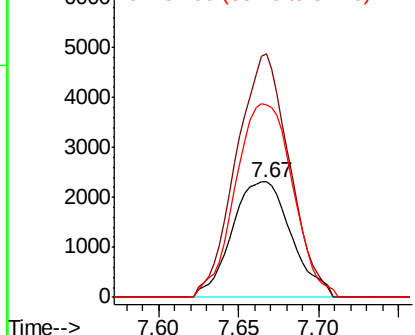
#31
Cyclohexane
Concen: 0.970 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN056490.D
Acq: 25 Jun 2019 16:34

Instrument :
MSVOA_N
ClientSampleId :
SP-19-LF2MW2

Tot Ion: 56 Resp: 5893
Ion Ratio Lower Upper
56 100
69 210.9 25.8 38.6#
84 166.8 69.4 104.0#

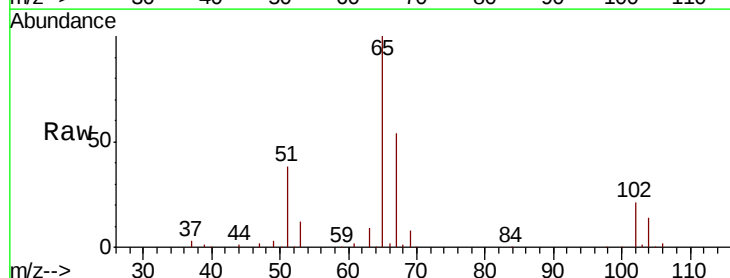


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

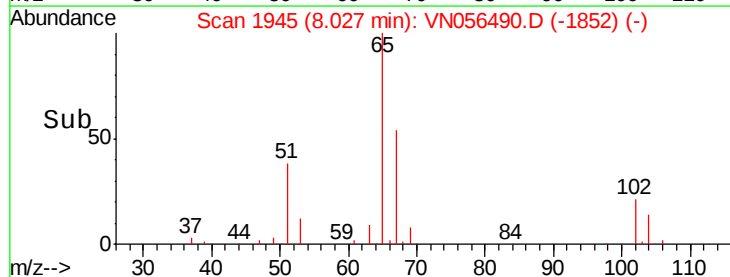
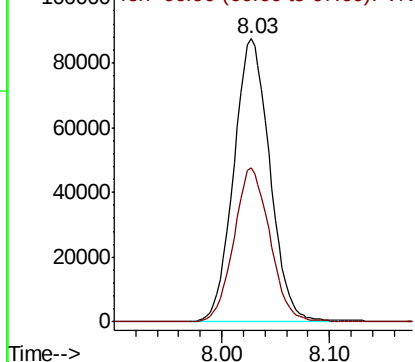


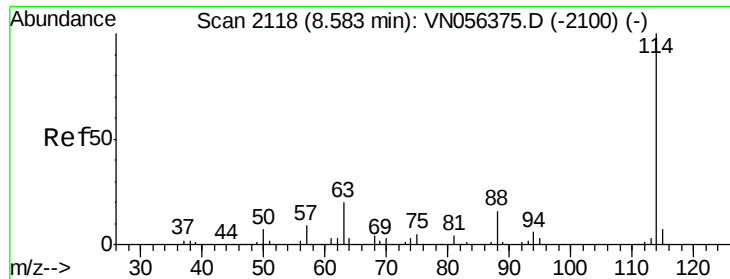
#33
1,2-Dichloroethane-d4
Concen: 51.743 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056490.D
Acq: 25 Jun 2019 16:34

Tgt Ion: 65 Resp: 203533
Ion Ratio Lower Upper
65 100
67 54.5 0.0 109.0



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

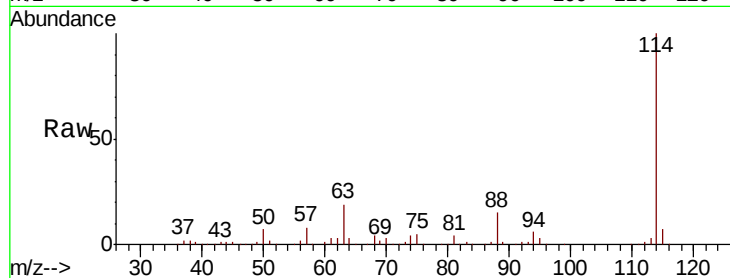




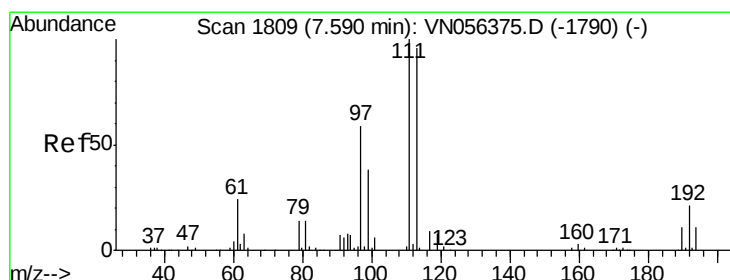
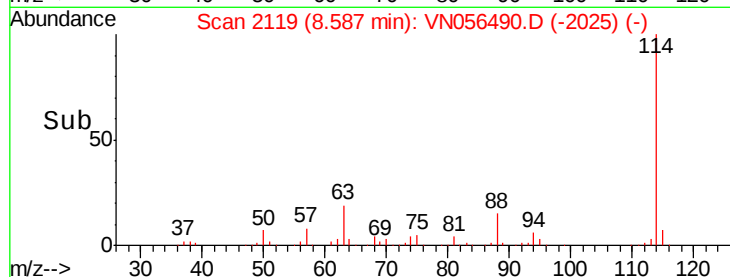
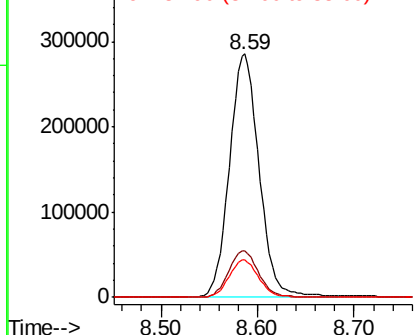
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056490.D
 Acq: 25 Jun 2019 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	39.2
88	15.2	0.0	31.4

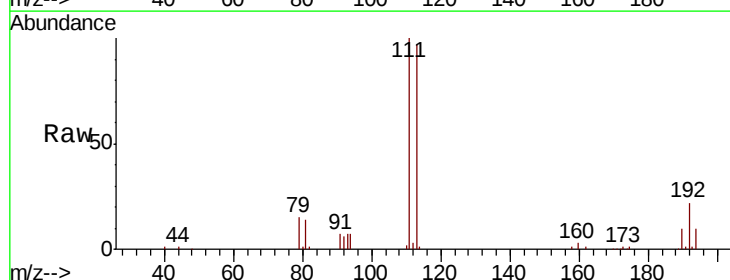


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

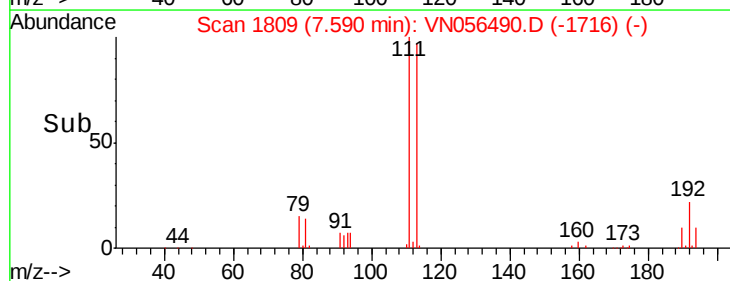
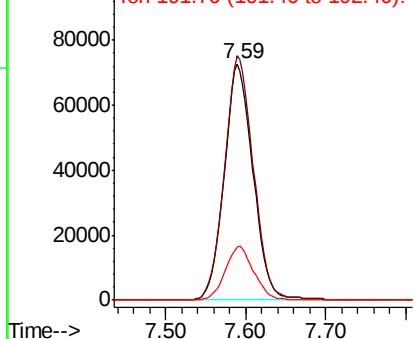


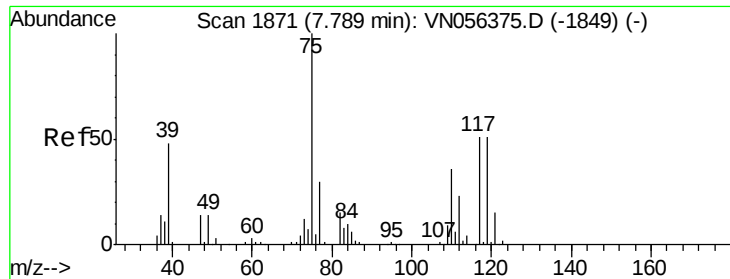
#35
 Dibromofluoromethane
 Concen: 47.135 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056490.D
 Acq: 25 Jun 2019 16:34

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.9	124.3
192	22.5	17.7	26.5



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

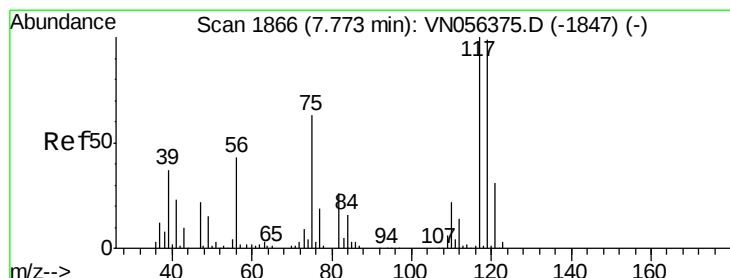
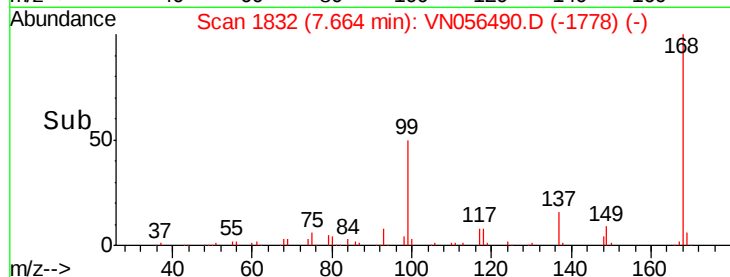
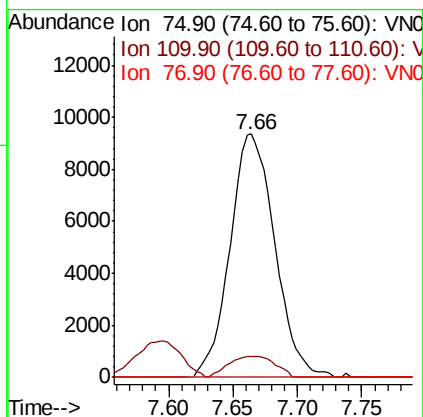
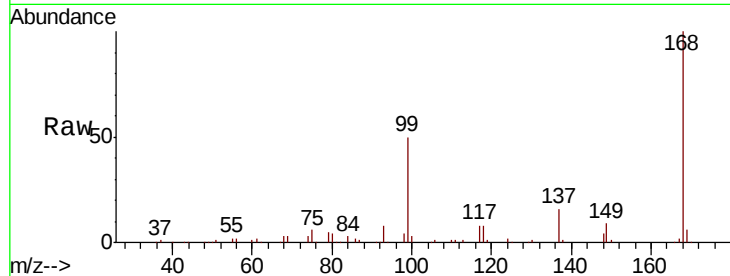




#36
 1,1-Dichloropropene
 Concen: 4.219 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056490.D
 Acq: 25 Jun 2019 16:34

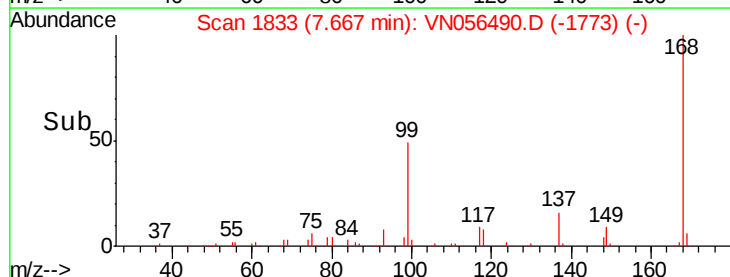
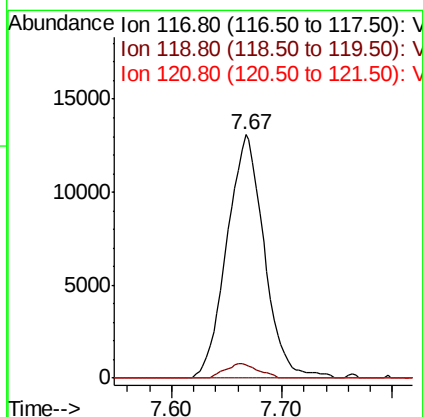
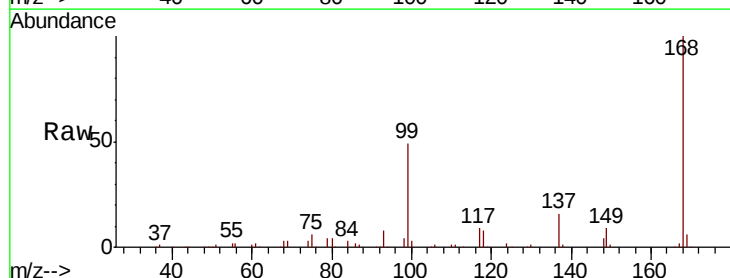
Instrument :
 MSVOA_N
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 SP-19-LF2MW2

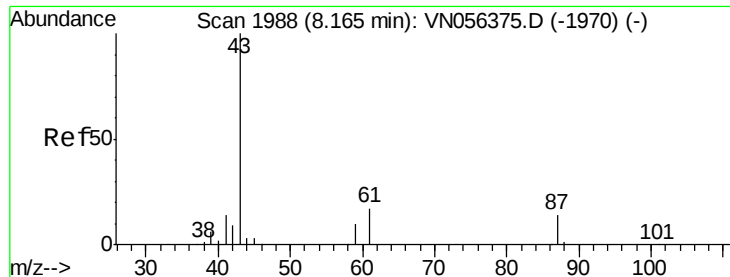
Tot Ion	75	Resp	22610
Ion Ratio	Lower	Upper	
75	100		
110	8.9	18.1	54.3#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.555 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN056490.D
 Acq: 25 Jun 2019 16:34

Tgt Ion	117	Resp	30722
Ion Ratio	Lower	Upper	
117	100		
119	5.3	79.1	118.7#
121	0.0	24.8	37.2#





#43

Isopropyl Acetate

Concen: 18.338 ug/l

RT: 8.30 min Scan# 2030

Delta R.T. 0.14 min

Lab File: VN056490.D

Acq: 25 Jun 2019 16:34

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2

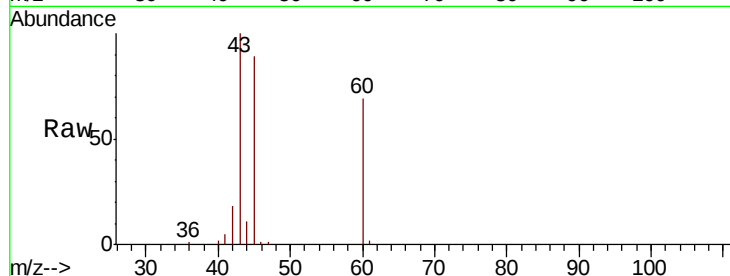
Tot Ion: 43 Resp: 148926

Ion Ratio Lower Upper

43 100

61 0.0 22.0 33.0#

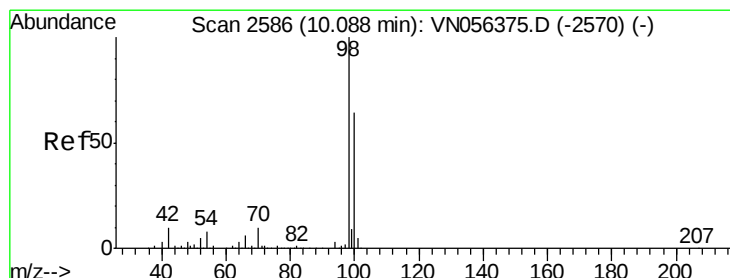
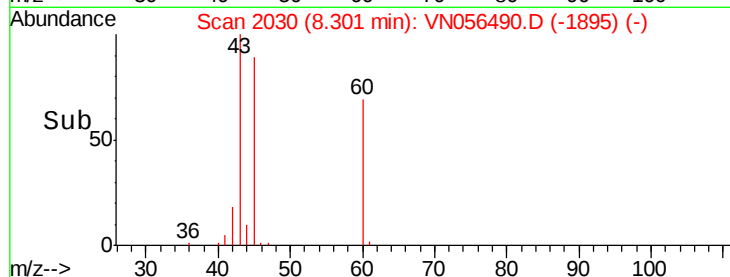
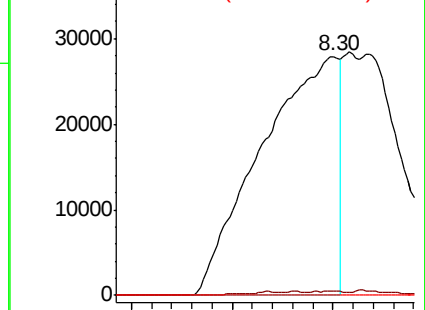
87 0.0 11.0 16.4#



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



#50

Toluene-d8

Concen: 51.065 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056490.D

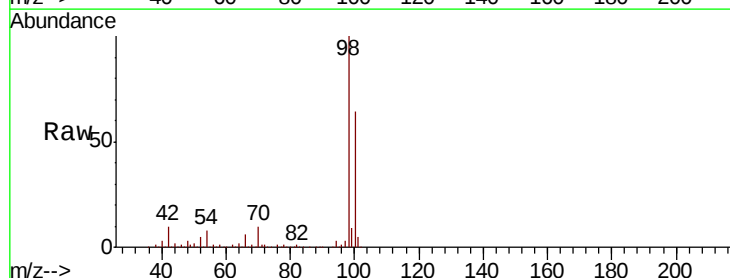
Acq: 25 Jun 2019 16:34

Tgt Ion: 98 Resp: 754734

Ion Ratio Lower Upper

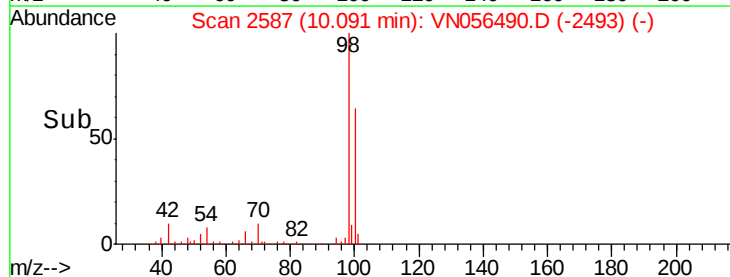
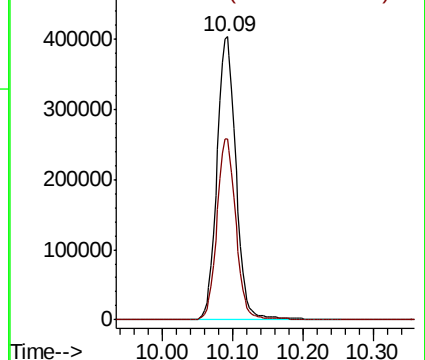
98 100

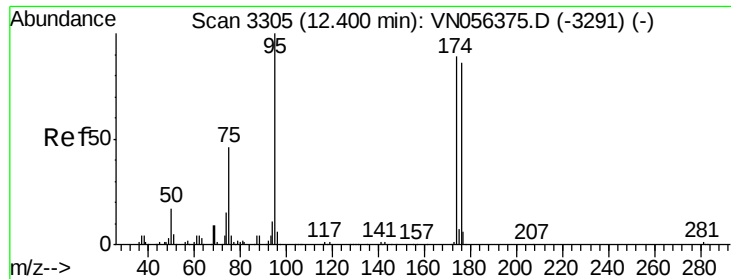
100 64.0 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

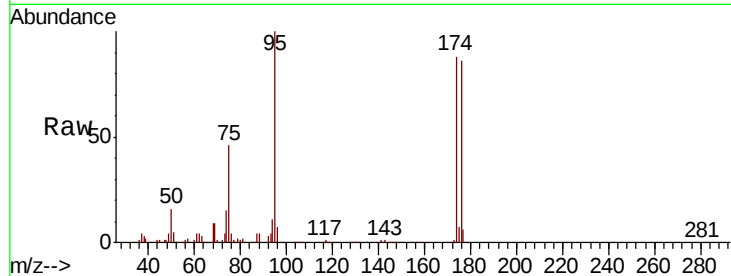




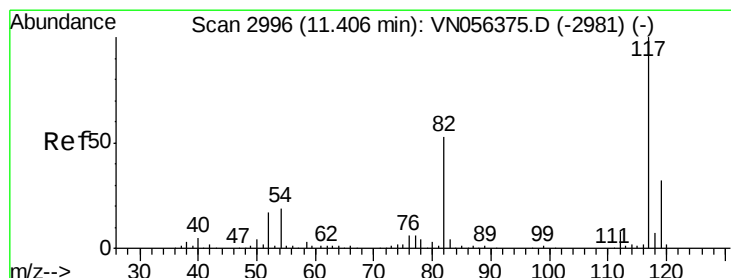
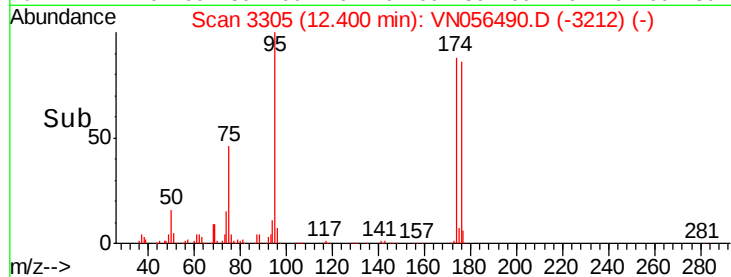
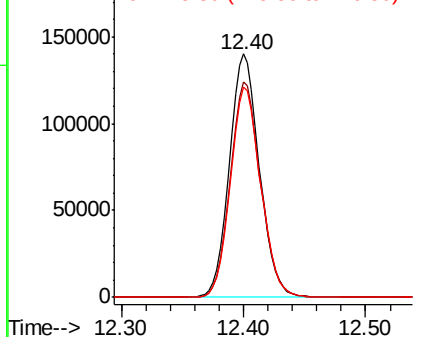
#62
4-Bromofluorobenzene
Concen: 48.648 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056490.D
Acq: 25 Jun 2019 16:34

Instrument :
MSVOA_N
ClientSampleId :
SP-19-LF2MW2

Tot Ion: 95 Resp: 239689
Ion Ratio Lower Upper
95 100
174 89.2 0.0 179.4
176 87.3 0.0 173.4

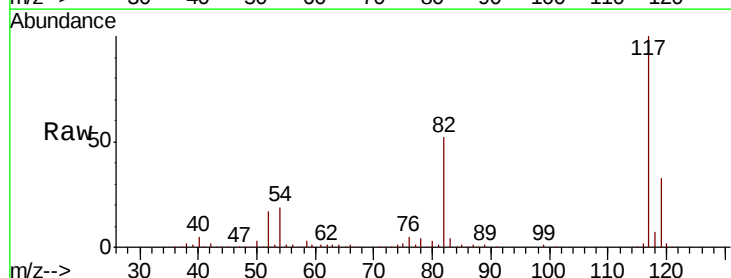


Abundance Ion 94.90 (94.60 to 95.60): VN056375.D (-3291) (-)
Ion 173.80 (173.50 to 174.50): VN056375.D (-3291) (-)
Ion 175.80 (175.50 to 176.50): VN056375.D (-3291) (-)

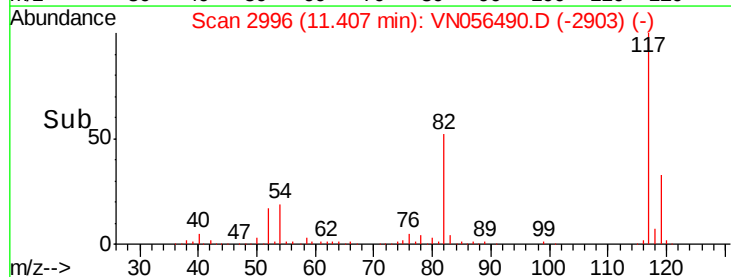
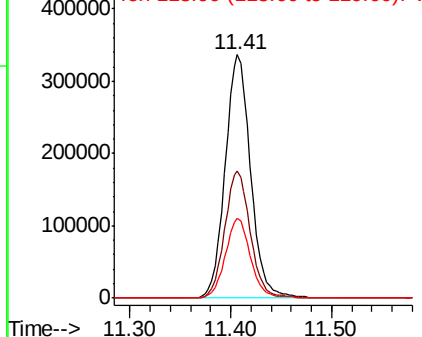


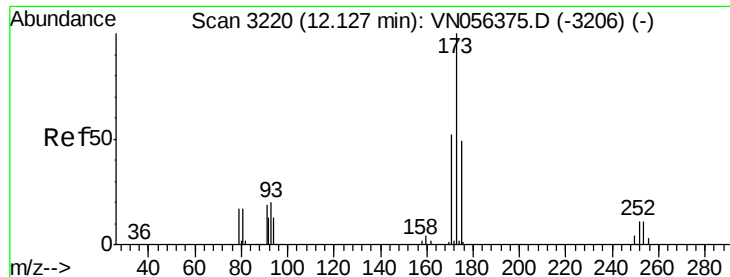
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056490.D
Acq: 25 Jun 2019 16:34

Tgt Ion: 117 Resp: 592585
Ion Ratio Lower Upper
117 100
82 52.2 42.0 63.0
119 32.7 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN056375.D (-2981) (-)
Ion 82.00 (81.70 to 82.70): VN056375.D (-2981) (-)
Ion 118.90 (118.60 to 119.60): VN056375.D (-2981) (-)





#71

Bromoform

Concen: 3.676 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056490.D

Acq: 25 Jun 2019 16:34

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2

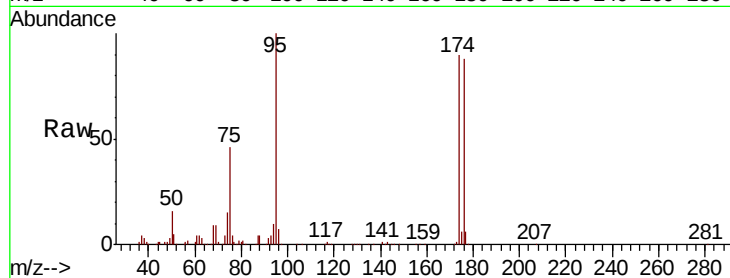
Tot Ion:173 Resp: 1848

Ion Ratio Lower Upper

173 100

175 753.0 24.4 73.4#

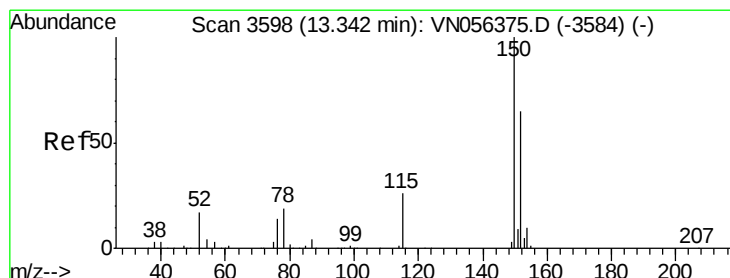
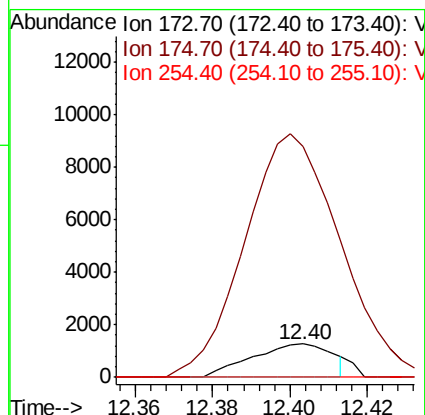
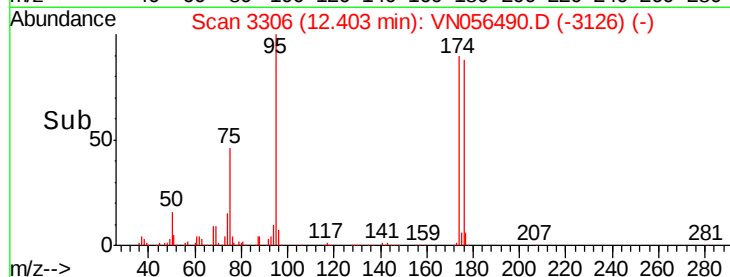
254 0.0 0.0 0.0



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: VN056490.D

Acq: 25 Jun 2019 16:34

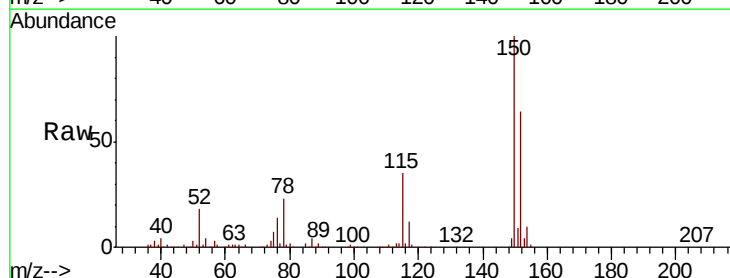
Tgt Ion:152 Resp: 170707

Ion Ratio Lower Upper

152 100

115 55.1 28.1 84.4

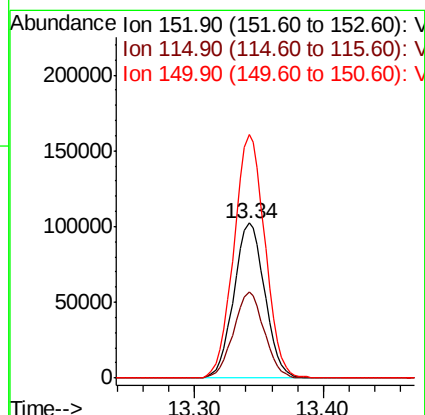
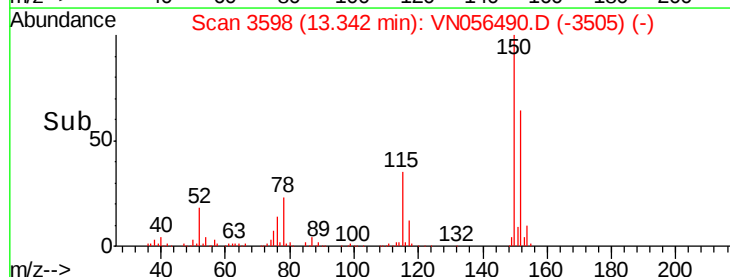
150 157.6 0.0 348.4

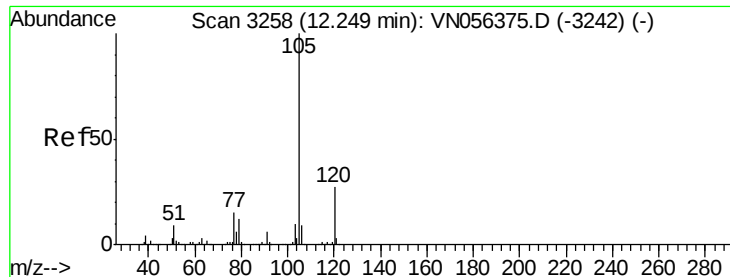


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.39 min Scan# 3303

Delta R.T. 0.15 min

Lab File: VN056490.D

Acq: 25 Jun 2019 16:34

Instrument :

MSVOA_N

ClientSampleId :

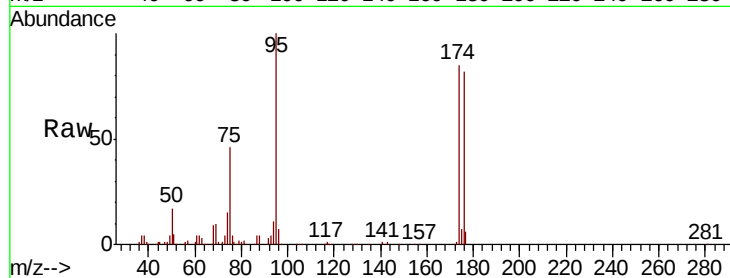
SP-19-LF2MW2

Tot Ion: 105 Resp: 134

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



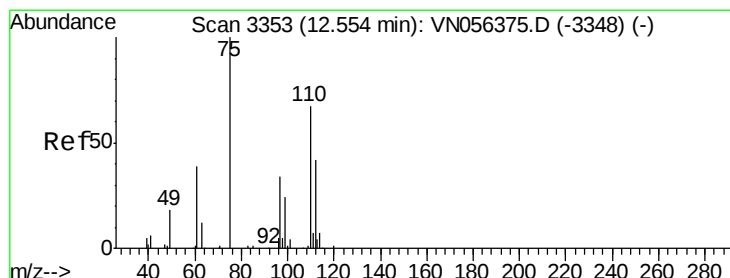
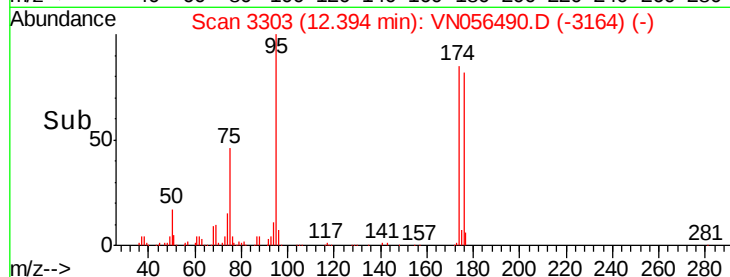
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.39

12.40

Time-->



#76

1,2,3-Trichloropropane

Concen: 31.011 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056490.D

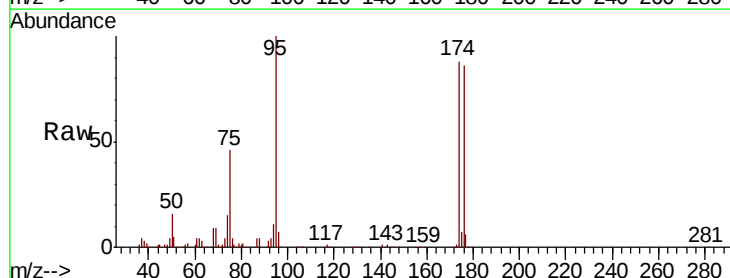
Acq: 25 Jun 2019 16:34

Tgt Ion: 75 Resp: 109768

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



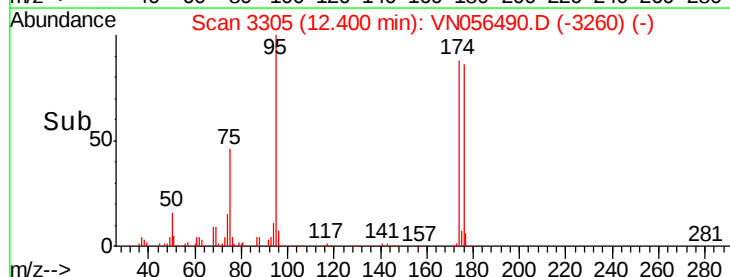
Abundance Ion 74.90 (74.60 to 75.60): V

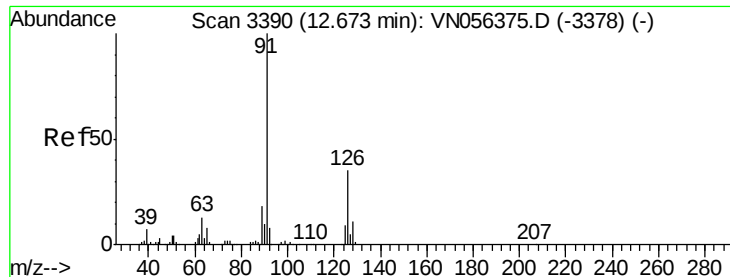
Ion 77.00 (76.70 to 77.70): V

12.40

12.50

Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.27 min

Lab File: VN056490.D

Acq: 25 Jun 2019 16:34

Instrument :

MSVOA_N

ClientSampleId :

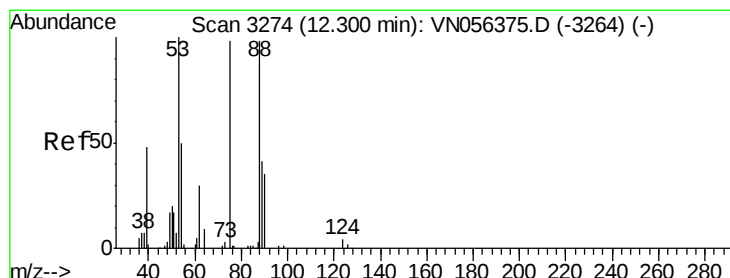
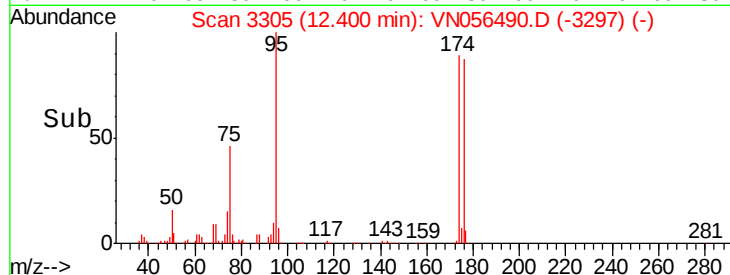
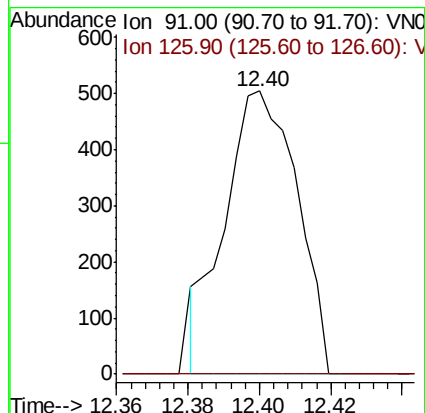
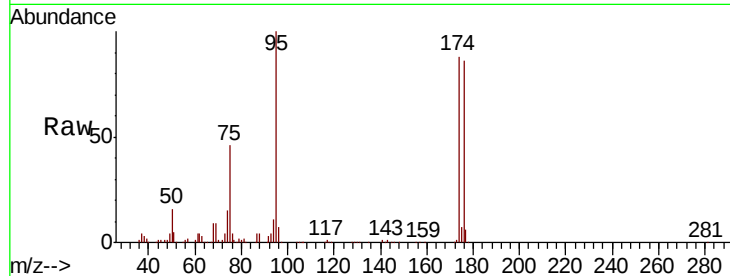
SP-19-LF2MW2

Tot Ion: 91 Resp: 708

Ion Ratio Lower Upper

91 100

126 0.0 17.6 52.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 110.218 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056490.D

Acq: 25 Jun 2019 16:34

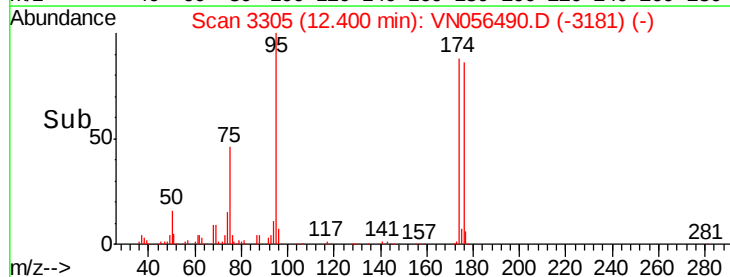
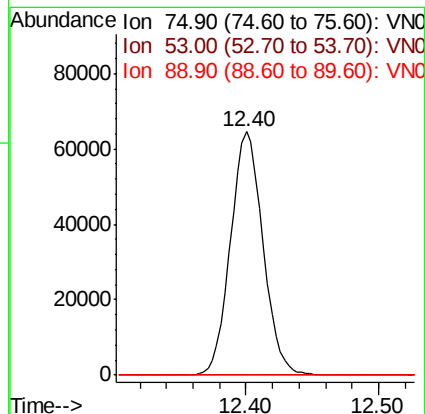
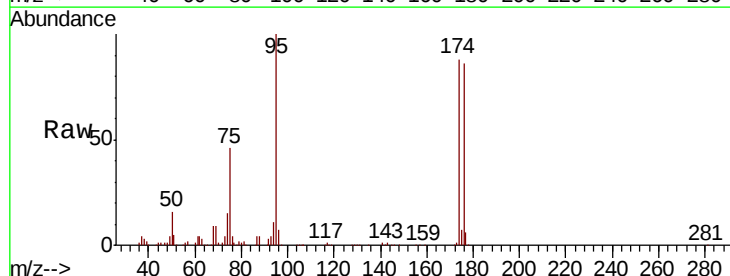
Tgt Ion: 75 Resp: 109768

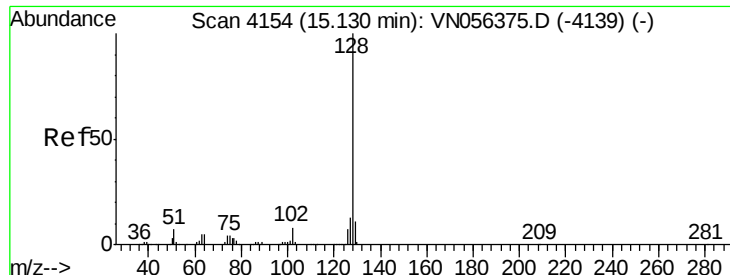
Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

89 0.0 35.0 52.6#





#95

Naphthalene

Concen: 5.251 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056490.D

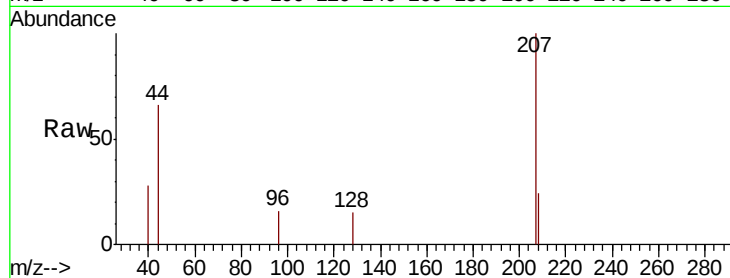
Acq: 25 Jun 2019 16:34

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2



Tot Ion:128 Resp: 59

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.6 12.8#

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

