

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060319\
 Data File : VN055970.D
 Acq On : 3 Jun 2019 18:50
 Operator : JC/SP
 Sample : K3097-10
 Misc : 5.09µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 04 01:52:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	324616	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	491436	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	455824	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	189674	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	159119	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	
35) Dibromofluoromethane	7.59	113	136285	43.86	ug/l	0.00
Spiked Amount			Recovery	=	87.72%	
50) Toluene-d8	10.09	98	581349	48.78	ug/l	0.00
Spiked Amount			Recovery	=	97.56%	
62) 4-Bromofluorobenzene	12.40	95	200102	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	

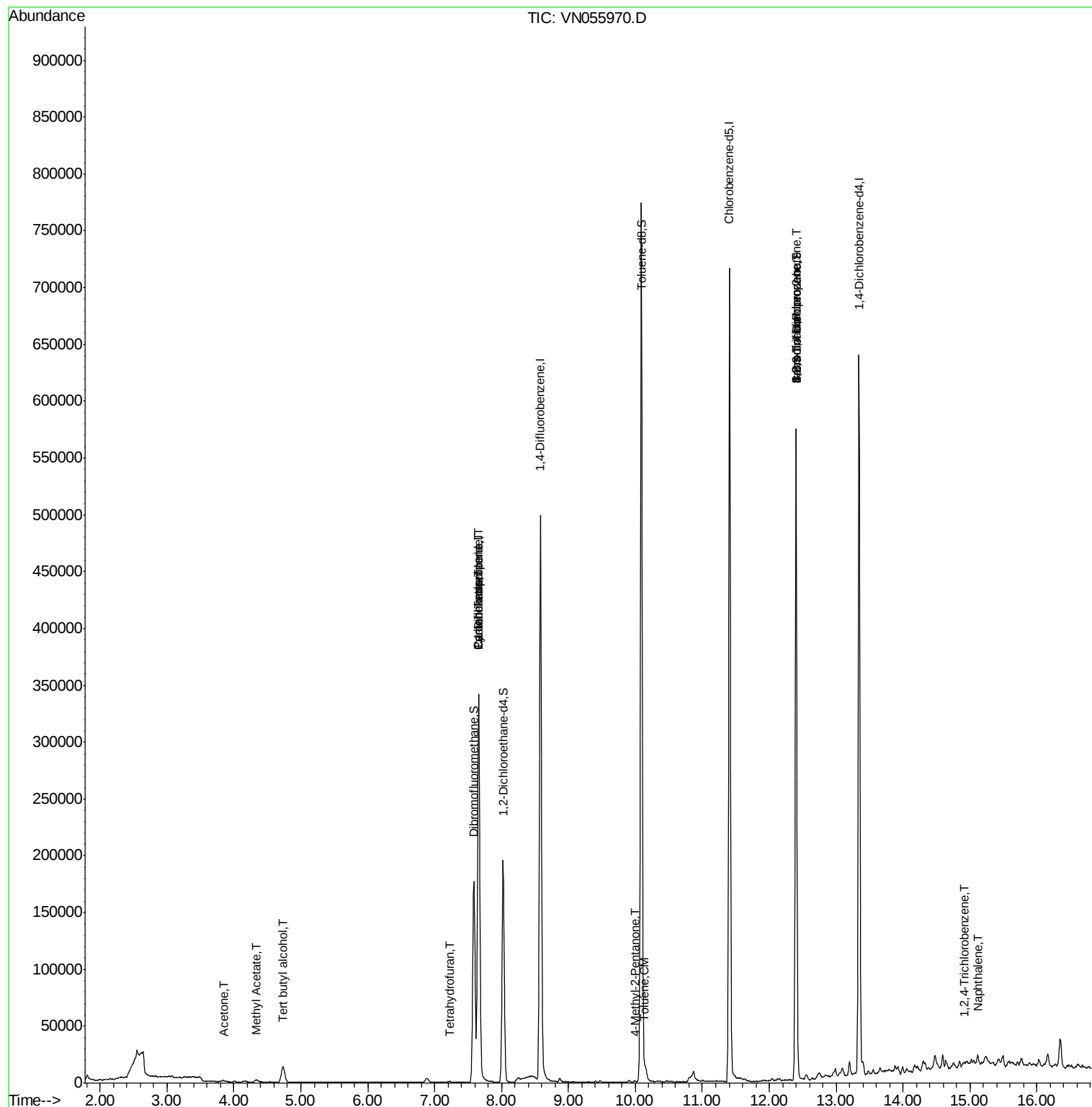
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	13612	21.251	ug/l #	74
16) Acetone	3.84	43	2410	1.635	ug/l	93
18) Methyl Acetate	4.34	43	4826	0.356	ug/l #	73
29) Tetrahydrofuran	7.22	42	460	0.353	ug/l #	64
31) Cyclohexane	7.65	56	4794	0.953	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	19288	4.504	ug/l #	48
38) Carbon Tetrachloride	7.66	117	26981	6.048	ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	1786	0.435	ug/l #	59
52) Toluene	10.15	92	1773	0.218	ug/l	93
71) Bromoform	12.40	173	1386	0.446	ug/l #	1
73) Isopropylbenzene	12.25	105	563	Below Cal	#	48
74) N-amyl acetate	12.05	43	356	Below Cal	#	54
75) 1,1,2,2-Tetrachloroethane	12.51	83	29	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	91143	26.422	ug/l #	100
79) 2-Chlorotoluene	12.68	91	391	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.74	105	278	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	91143	64.654	ug/l #	15
83) tert-Butylbenzene	12.99	119	66	Below Cal	#	1
84) 1,2,4-Trimethylbenzene	13.03	105	182	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	397	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.92	180	242	3.698	ug/l #	1
95) Naphthalene	15.13	128	3125	0.356	ug/l #	88

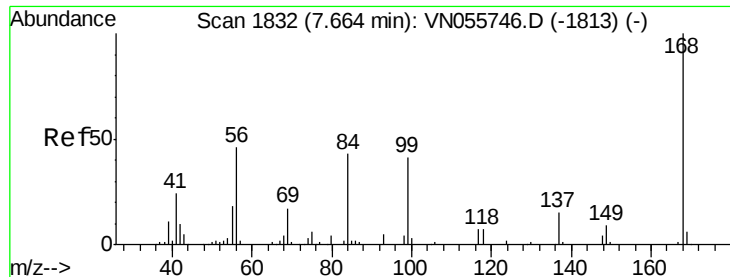
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN055970.D
Acq On : 3 Jun 2019 18:50
Operator : JC/SP
Sample : K3097-10
Misc : 5.09g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jun 04 01:52:32 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
Quant Title : SW846 8260
QLast Update : Fri May 24 06:41:54 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN055970.D

Acq: 3 Jun 2019 18:50

Instrument :

MSVOA_N

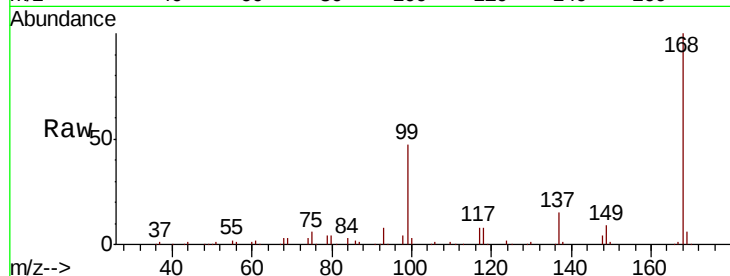
ClientSampleId :

Tot Ion:168 Resp: 324616

Ion Ratio Lower Upper

168 100

99 46.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055970.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN055970.D (-1739) (-)

7.66

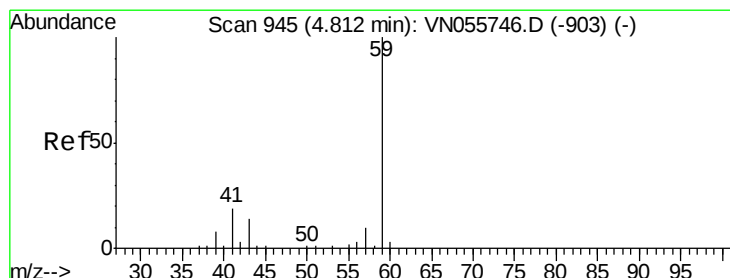
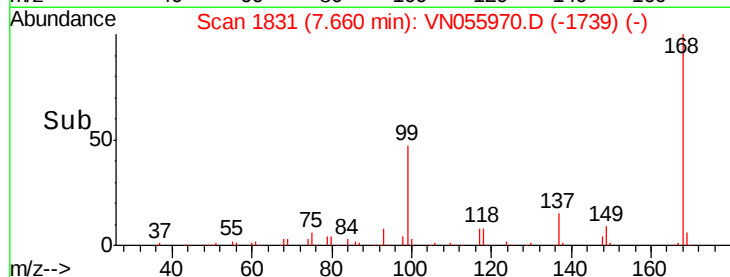
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 21.251 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.07 min

Lab File: VN055970.D

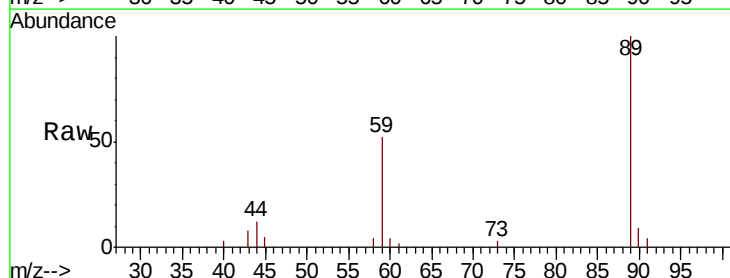
Acq: 3 Jun 2019 18:50

Tgt Ion: 59 Resp: 13612

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055970.D (-852) (-)

Ion 57.00 (56.70 to 57.70): VN055970.D (-852) (-)

4.74

4000

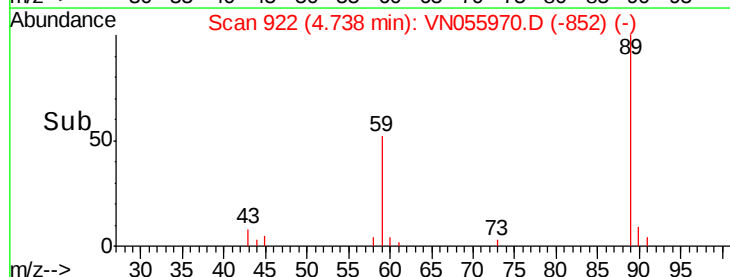
3000

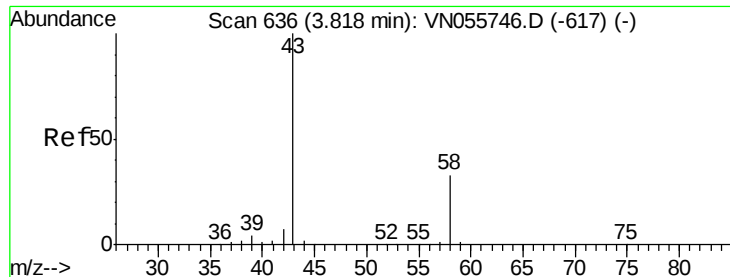
2000

1000

0

Time--> 4.60 4.70 4.80





#16

Acetone

Concen: 1.635 ug/l

RT: 3.84 min Scan# 644

Delta R.T. 0.03 min

Lab File: VN055970.D

Acq: 3 Jun 2019 18:50

Instrument :

MSVOA_N

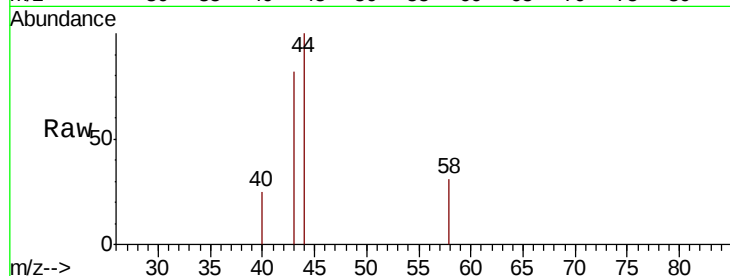
ClientSampleId :

Tot Ion: 43 Resp: 2410

Ion Ratio Lower Upper

43 100

58 37.2 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.84

800

600

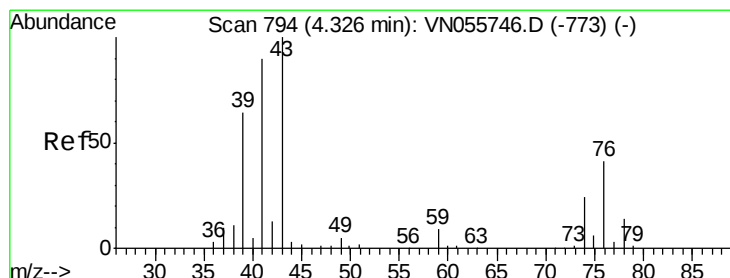
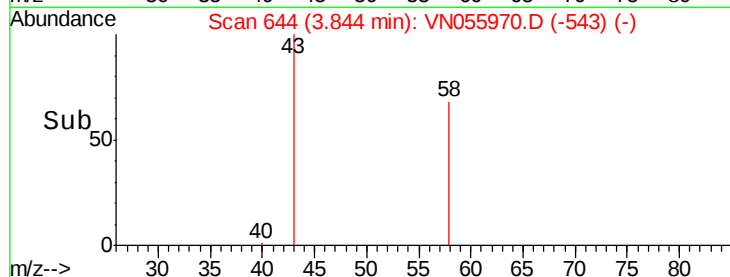
400

200

0

Time-->

3.75 3.80 3.85



#18

Methyl Acetate

Concen: 0.356 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN055970.D

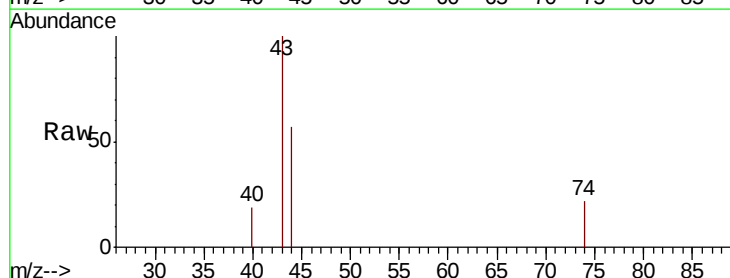
Acq: 3 Jun 2019 18:50

Tgt Ion: 43 Resp: 4826

Ion Ratio Lower Upper

43 100

74 10.7 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.34

1500

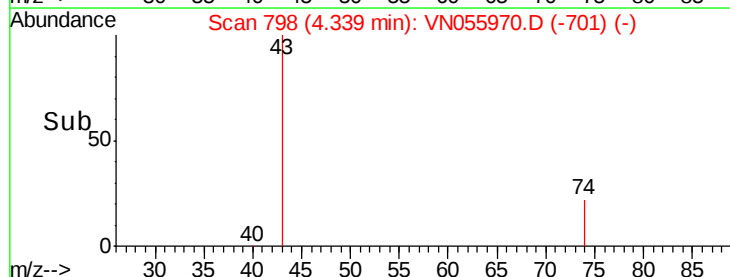
1000

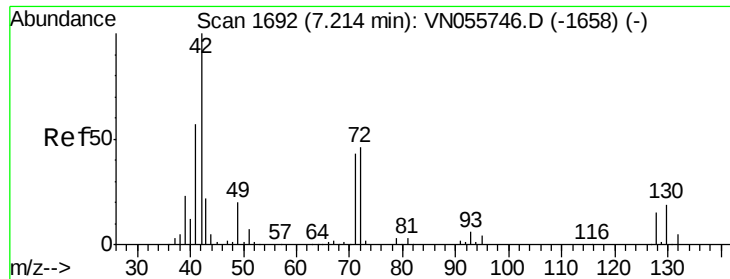
500

0

Time-->

4.25 4.30 4.35 4.40 4.45

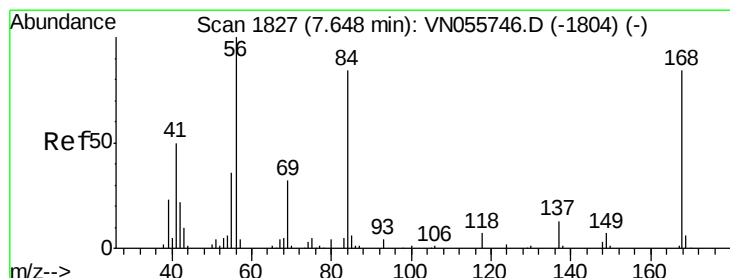
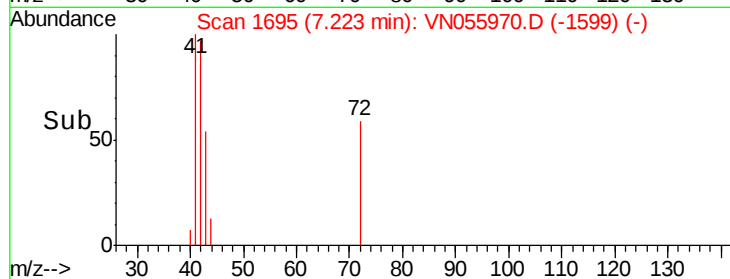
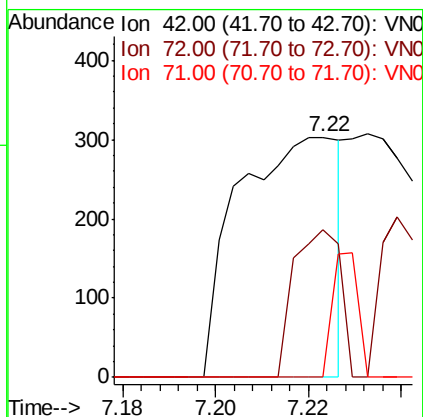
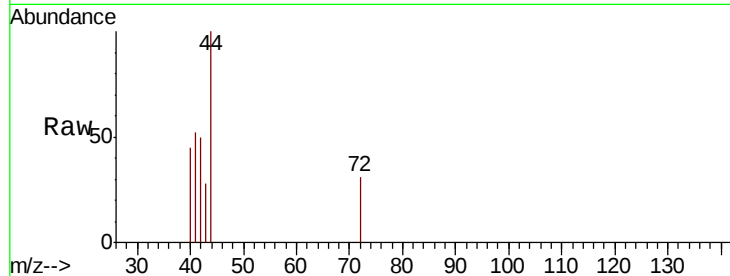




#29
Tetrahydrofuran
Concen: 0.353 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN055970.D
Acq: 3 Jun 2019 18:50

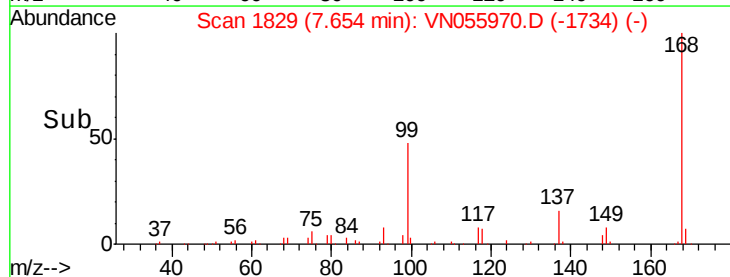
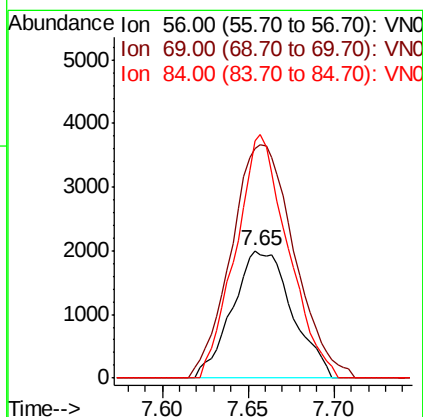
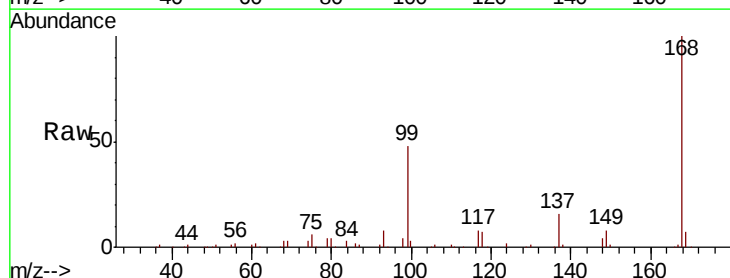
Instrument :
MSVOA_N
ClientSampled :

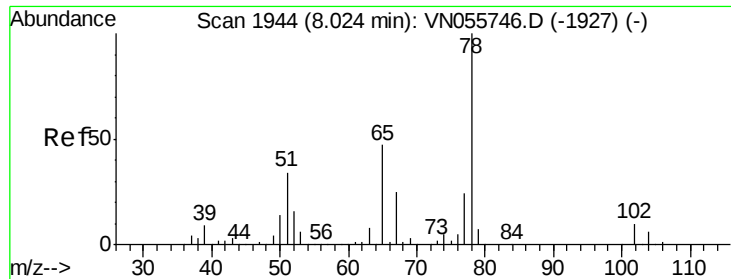
Tot Ion: 42 Resp: 460
Ion Ratio Lower Upper
42 100
72 28.3 35.9 53.9#
71 13.0 34.0 51.0#



#31
Cyclohexane
Concen: 0.953 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN055970.D
Acq: 3 Jun 2019 18:50

Tgt Ion: 56 Resp: 4794
Ion Ratio Lower Upper
56 100
69 179.8 25.6 38.4#
84 185.9 67.4 101.0#

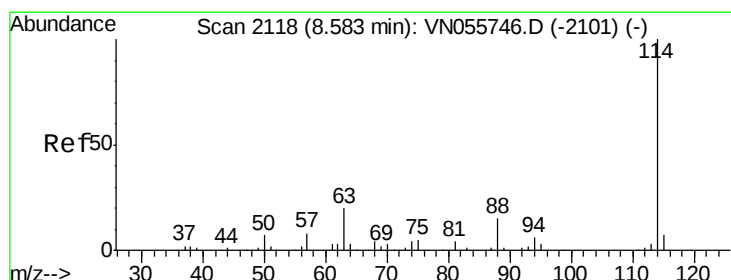
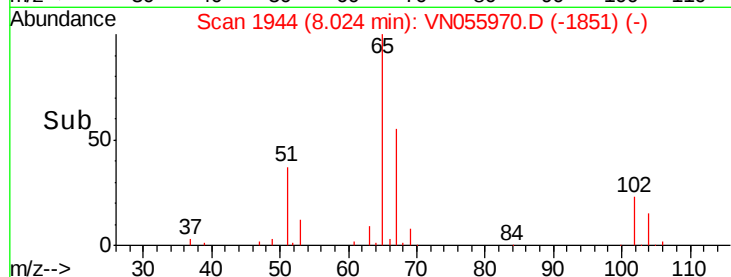
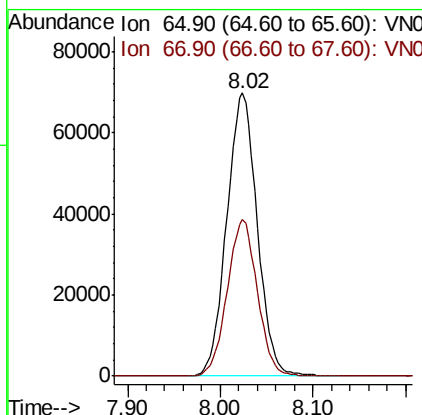
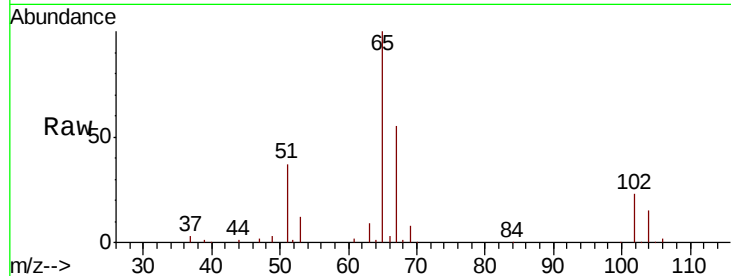




#33
 1,2-Dichloroethane-d4
 Concen: 47.465 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN055970.D
 Acq: 3 Jun 2019 18:50

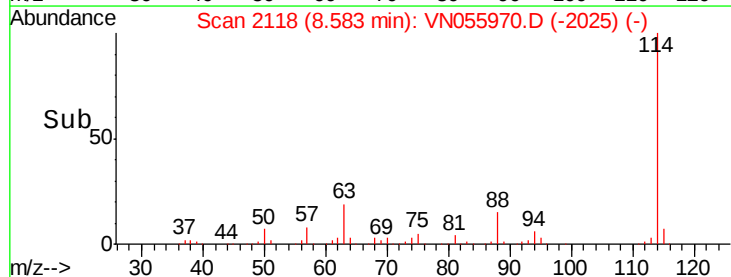
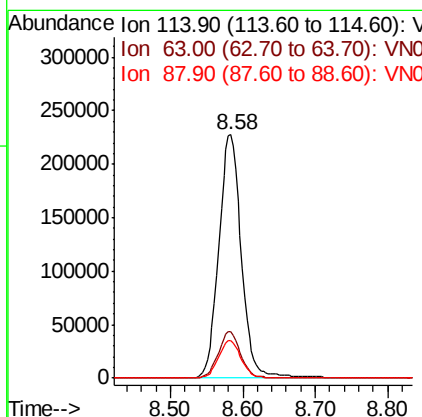
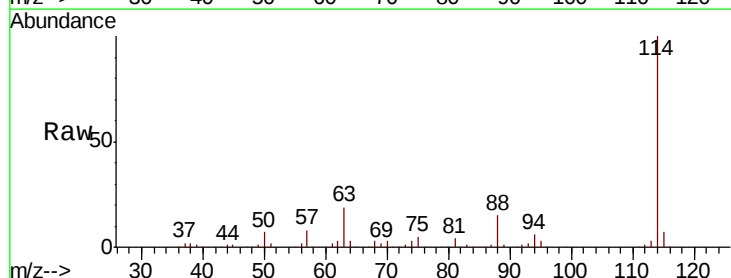
Instrument :
 MSVOA_N
 ClientSampled :

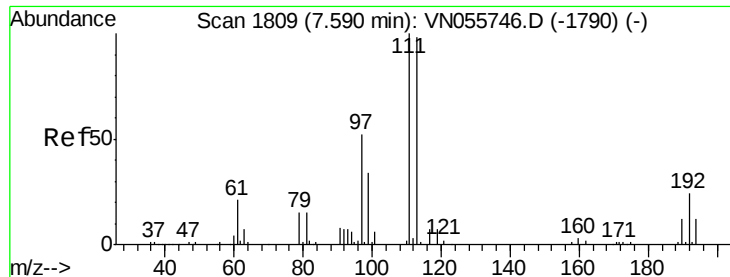
Tot Ion: 65 Resp: 159119
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055970.D
 Acq: 3 Jun 2019 18:50

Tgt Ion: 114 Resp: 491436
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.2
 88 15.3 0.0 31.0

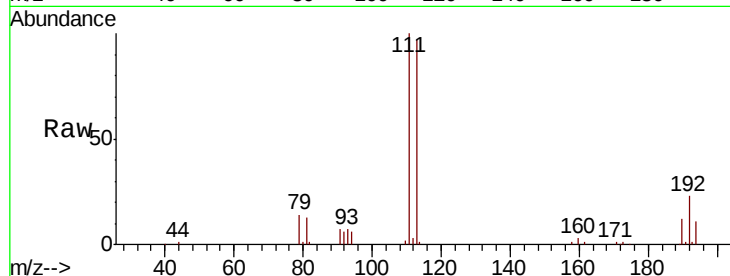




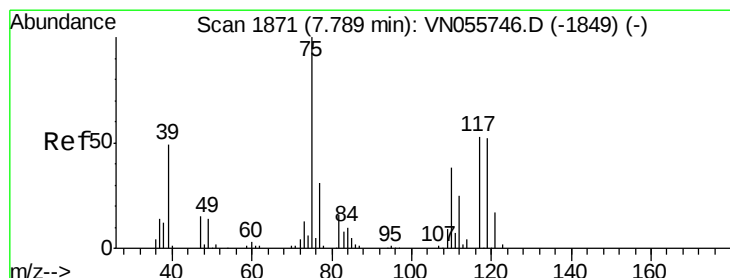
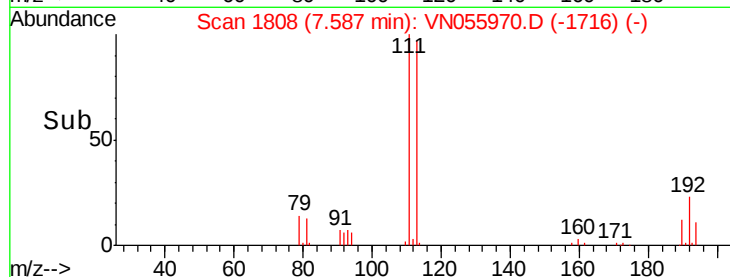
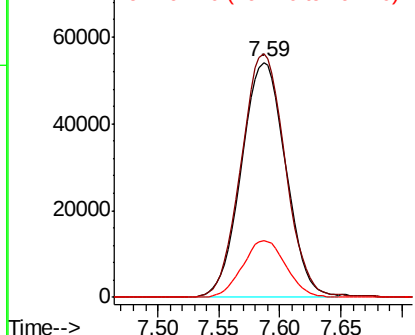
#35
 Dibromofluoromethane
 Concen: 43.863 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. -0.00 min
 Lab File: VN055970.D
 Acq: 3 Jun 2019 18:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.9	122.9
192	23.6	19.5	29.3

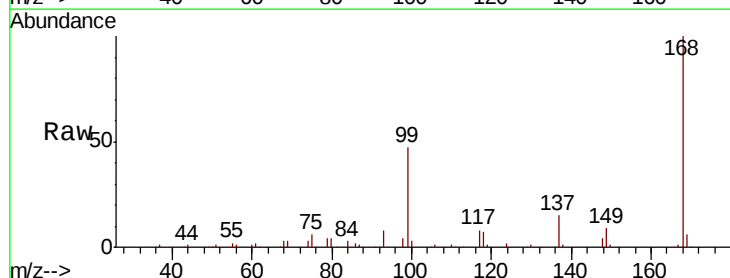


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

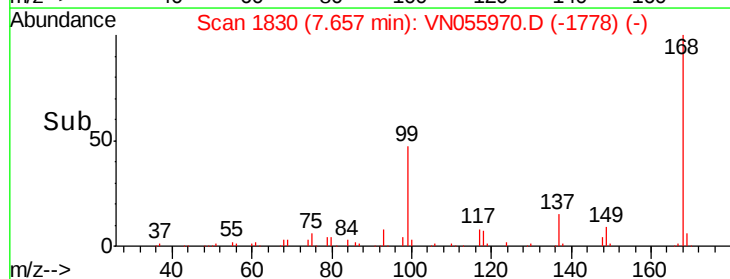
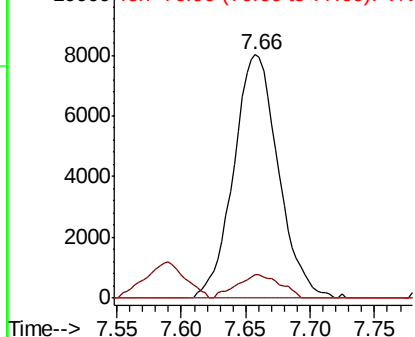


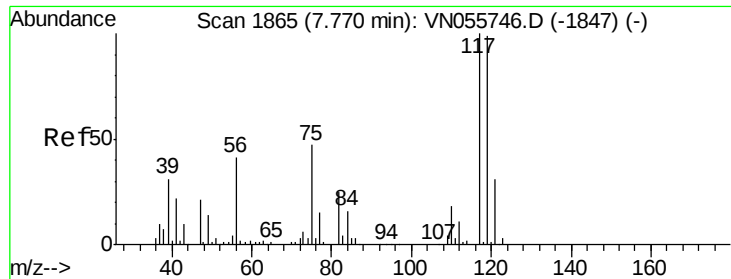
#36
 1,1-Dichloropropene
 Concen: 4.504 ug/l
 RT: 7.66 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN055970.D
 Acq: 3 Jun 2019 18:50

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	19.0	57.0#
77	0.0	25.1	37.7#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO

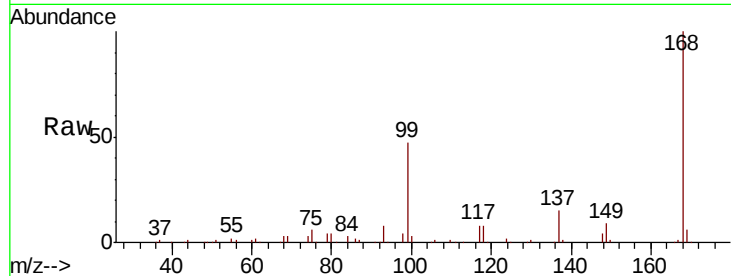




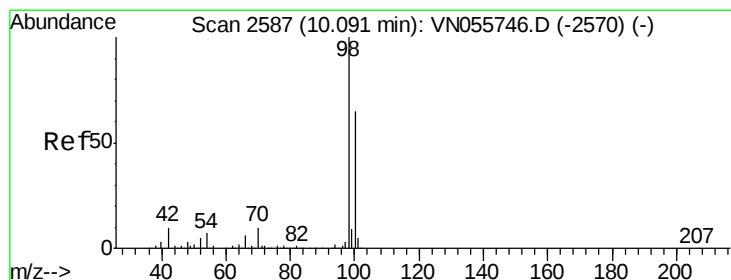
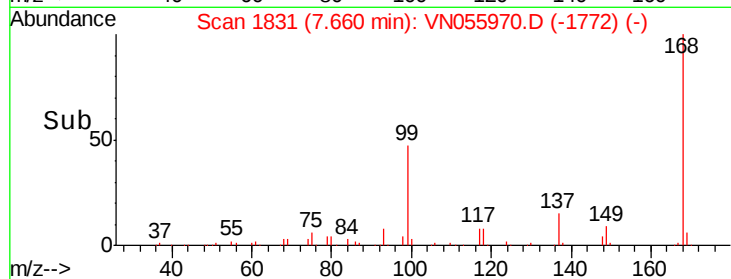
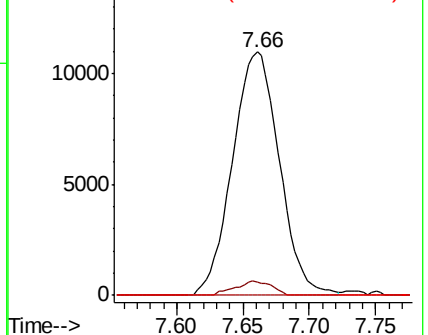
#38
Carbon Tetrachloride
Concen: 6.048 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN055970.D
Acq: 3 Jun 2019 18:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 26981
Ion Ratio Lower Upper
117 100
119 5.5 79.0 118.6#
121 0.0 24.7 37.1#

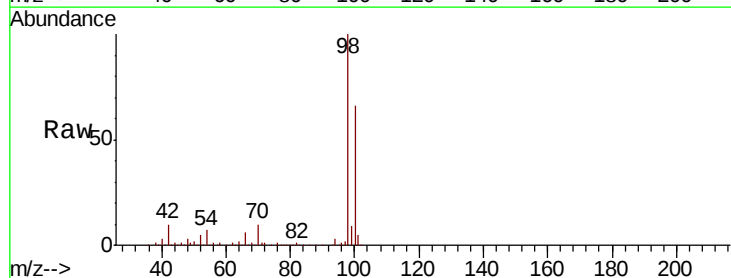


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

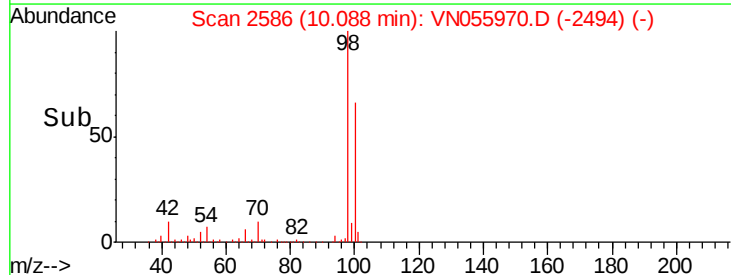
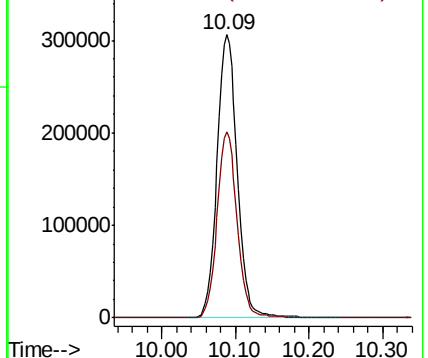


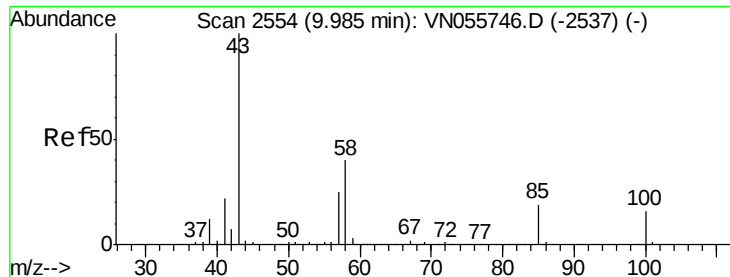
#50
Toluene-d8
Concen: 48.778 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN055970.D
Acq: 3 Jun 2019 18:50

Tgt Ion: 98 Resp: 581349
Ion Ratio Lower Upper
98 100
100 65.3 51.9 77.9



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





#51

4-Methyl-2-Pentanone

Concen: 0.435 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN055970.D

Acq: 3 Jun 2019 18:50

Instrument :

MSVOA_N

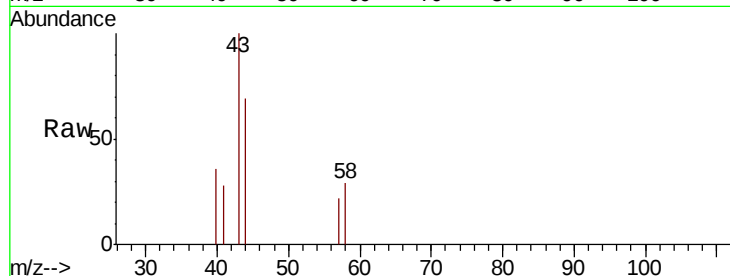
ClientSampled :

Tot Ion: 43 Resp: 1786

Ion Ratio Lower Upper

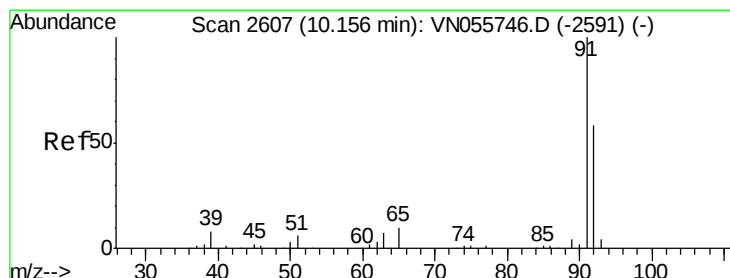
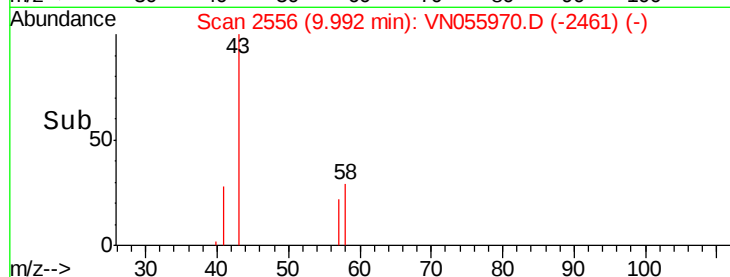
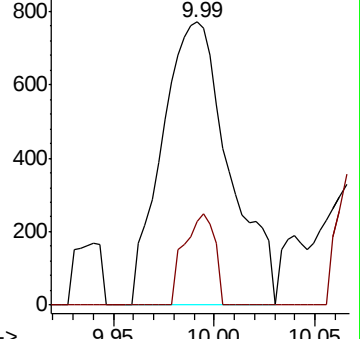
43 100

58 14.7 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 0.218 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.01 min

Lab File: VN055970.D

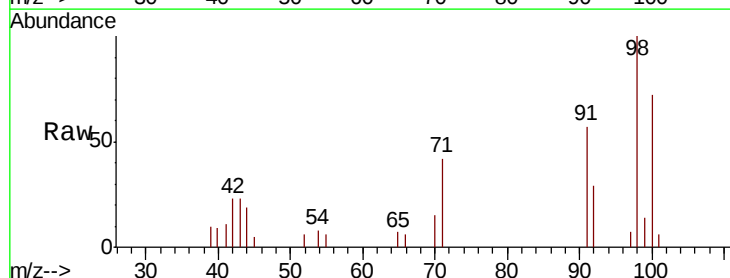
Acq: 3 Jun 2019 18:50

Tgt Ion: 92 Resp: 1773

Ion Ratio Lower Upper

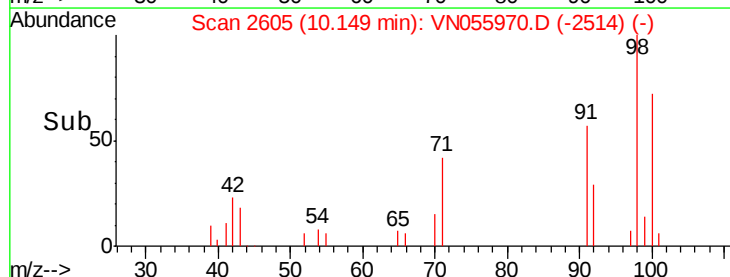
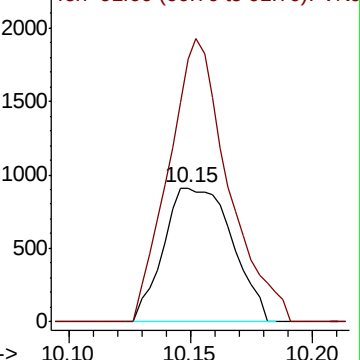
92 100

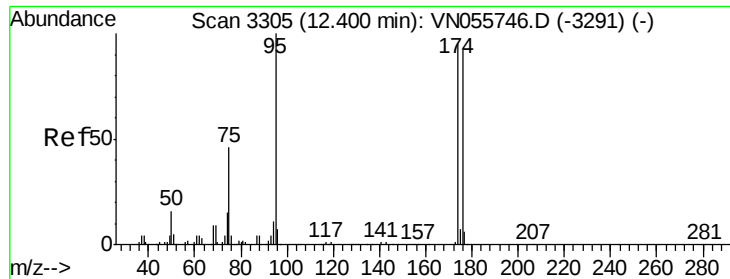
91 183.8 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

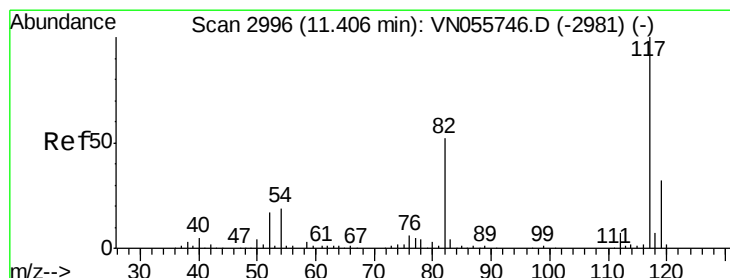
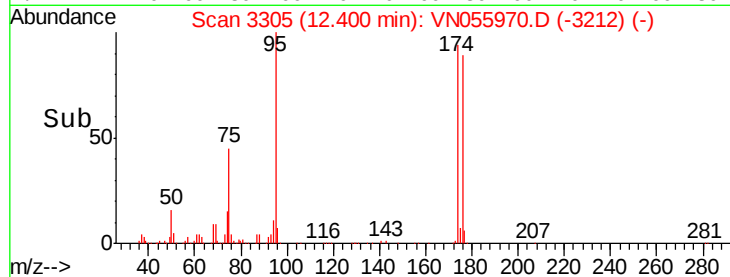
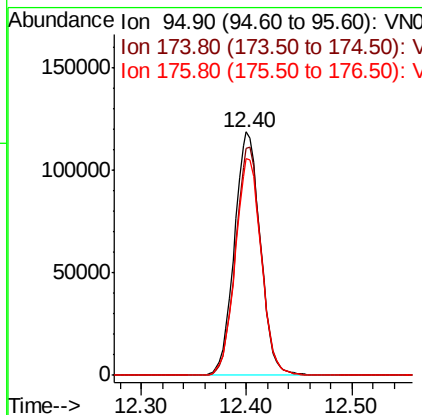
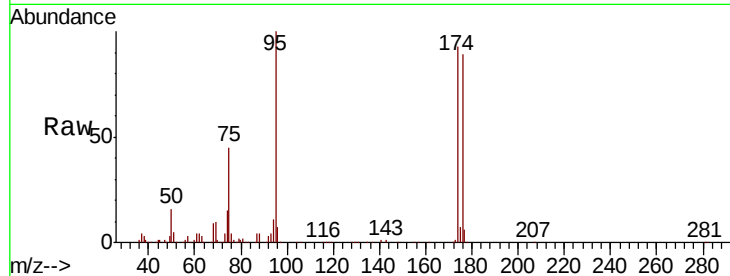




#62
4-Bromofluorobenzene
Concen: 48.965 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055970.D
Acq: 3 Jun 2019 18:50

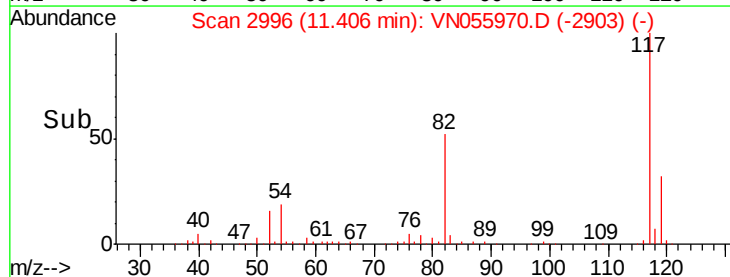
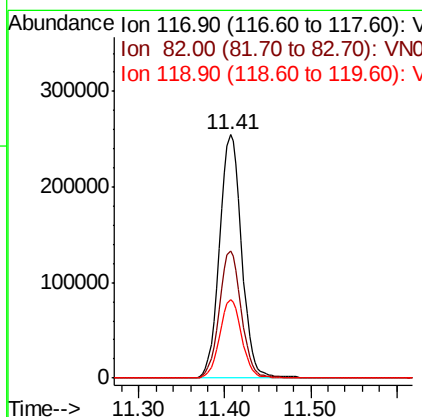
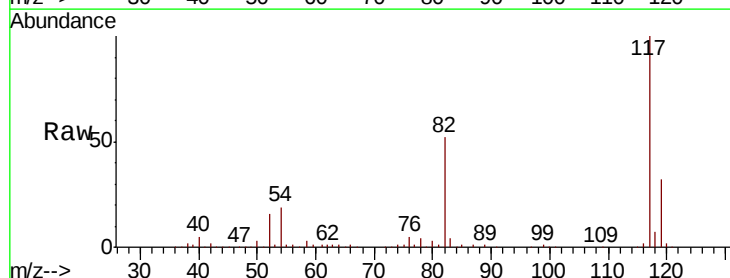
Instrument :
MSVOA_N
ClientSampled :

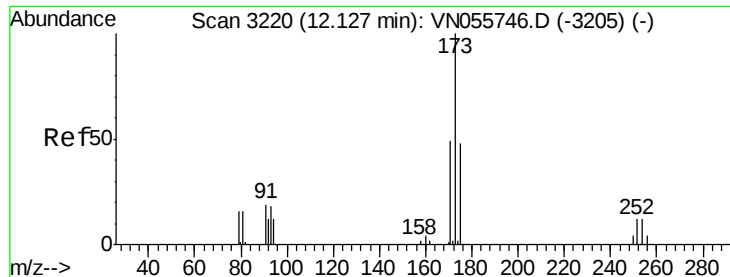
Tot Ion: 95 Resp: 200102
Ion Ratio Lower Upper
95 100
174 93.5 0.0 191.0
176 90.0 0.0 185.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055970.D
Acq: 3 Jun 2019 18:50

Tgt Ion: 117 Resp: 455824
Ion Ratio Lower Upper
117 100
82 52.5 41.8 62.8
119 32.2 25.4 38.0





#71

Bromoform

Concen: 0.446 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055970.D

Acq: 3 Jun 2019 18:50

Instrument :

MSVOA_N

ClientSampled :

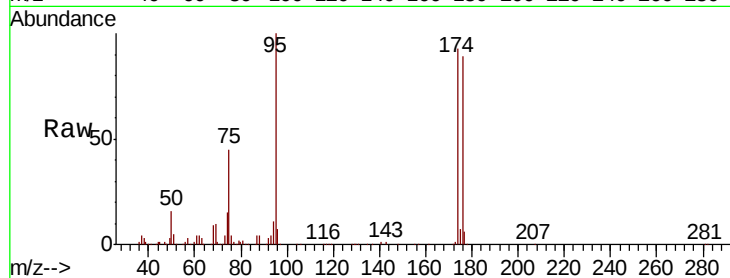
Tot Ion:173 Resp: 1386

Ion Ratio Lower Upper

173 100

175 894.6 24.3 72.8#

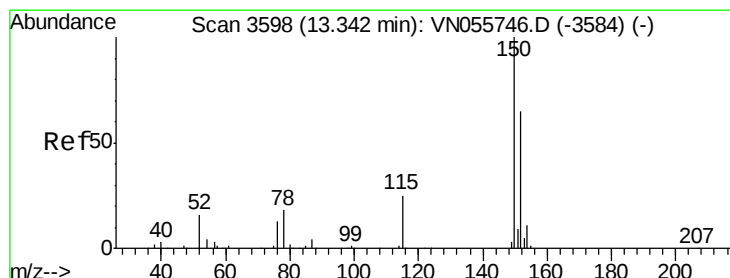
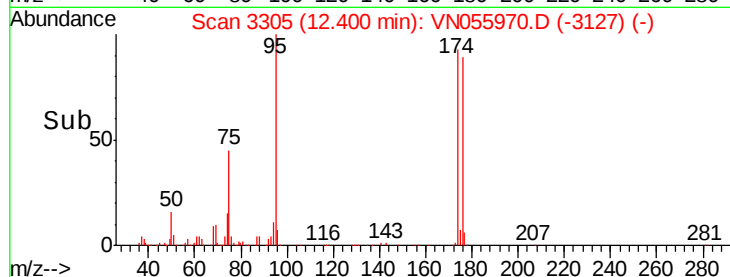
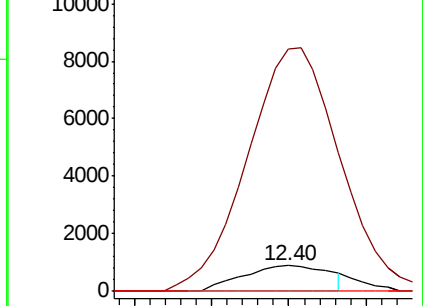
254 0.0 0.0 0.0



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: VN055970.D

Acq: 3 Jun 2019 18:50

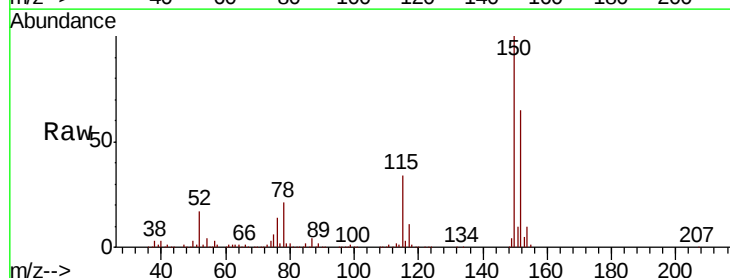
Tgt Ion:152 Resp: 189674

Ion Ratio Lower Upper

152 100

115 53.6 27.0 81.0

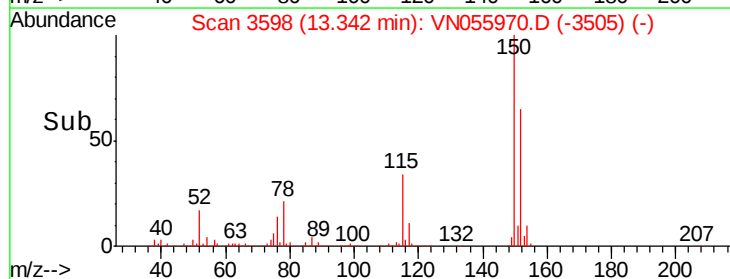
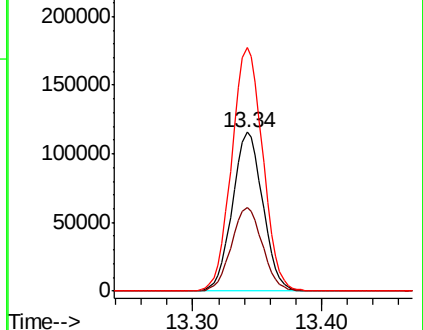
150 156.7 0.0 343.2

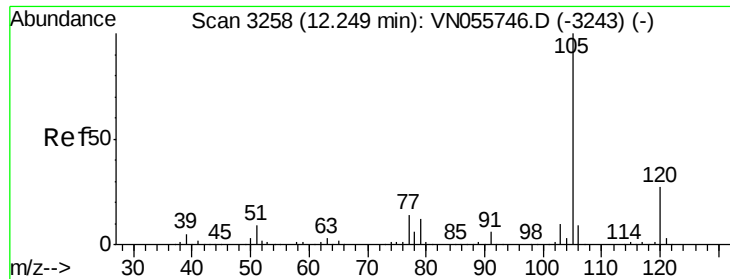


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN055970.D

Acq: 3 Jun 2019 18:50

Instrument :

MSVOA_N

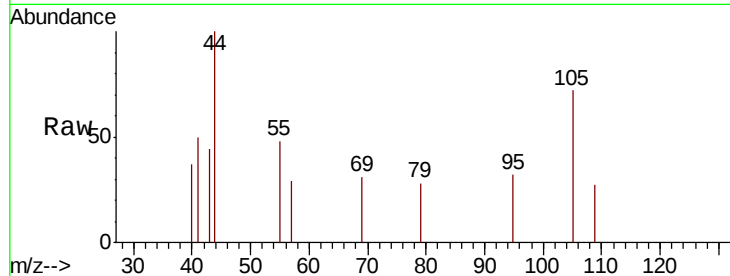
ClientSampled :

Tot Ion:105 Resp: 563

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

400

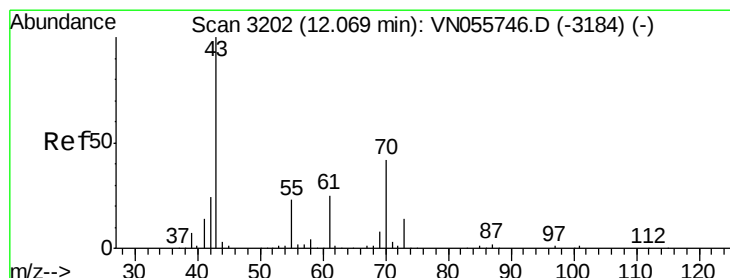
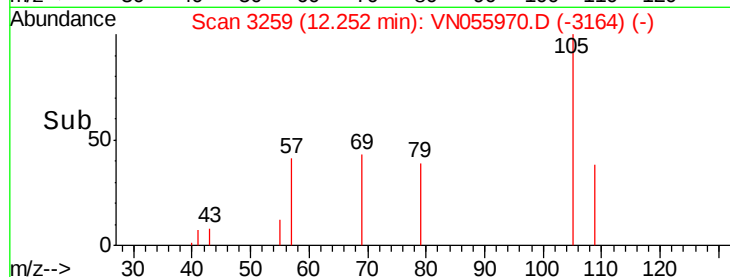
300

200

100

0

Time-->



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.05 min Scan# 3195

Delta R.T. -0.02 min

Lab File: VN055970.D

Acq: 3 Jun 2019 18:50

Tgt Ion: 43 Resp: 356

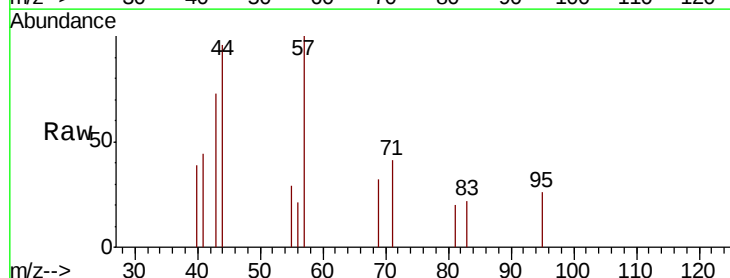
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 25.6 18.6 28.0

61 0.0 20.0 30.0#



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

800

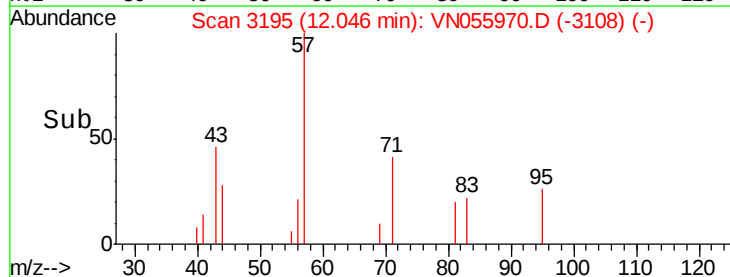
600

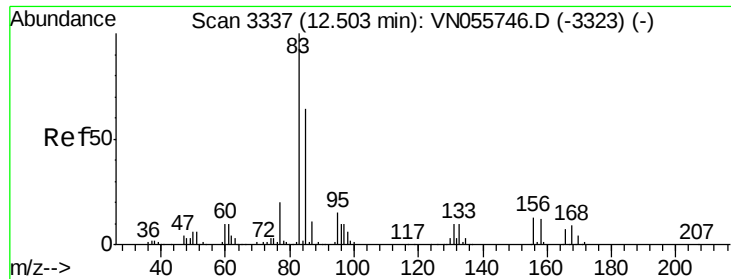
400

200

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3340

Delta R.T. 0.01 min

Lab File: VN055970.D

Acq: 3 Jun 2019 18:50

Instrument :

MSVOA_N

ClientSampled :

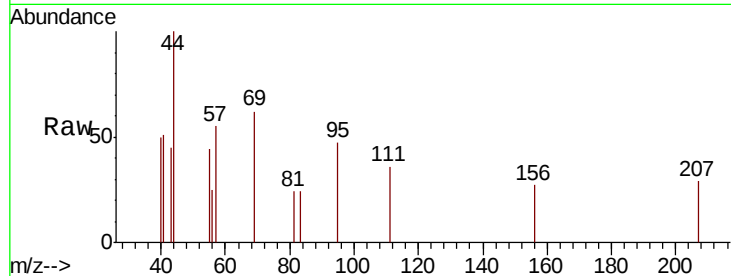
Tot Ion: 83 Resp: 29

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

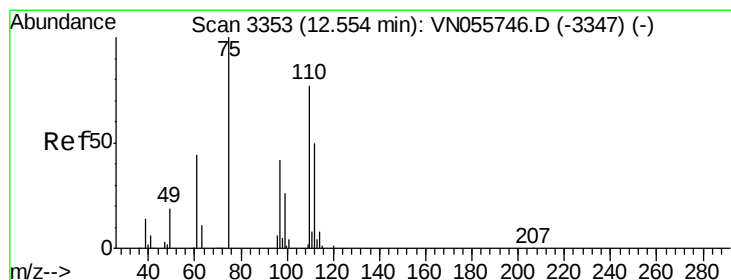
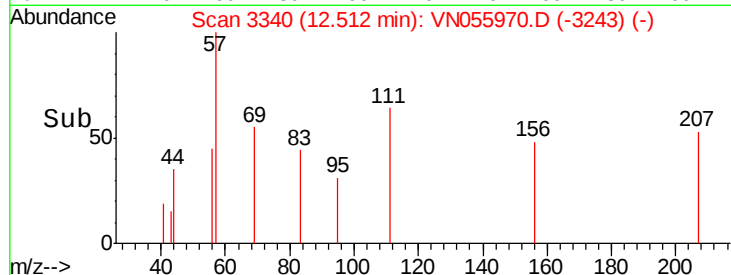
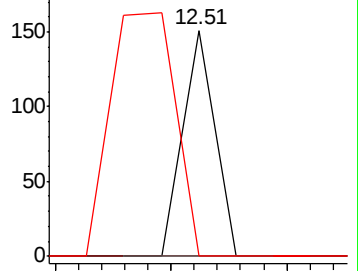
85 217.2 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 26.422 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055970.D

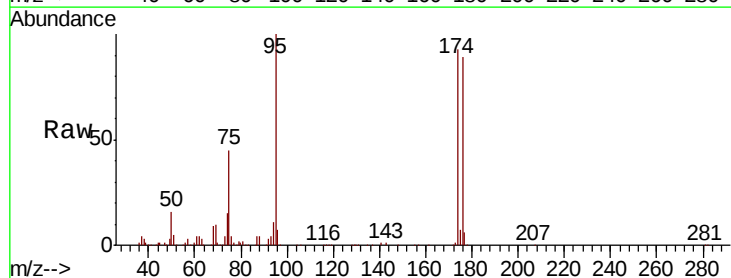
Acq: 3 Jun 2019 18:50

Tgt Ion: 75 Resp: 91143

Ion Ratio Lower Upper

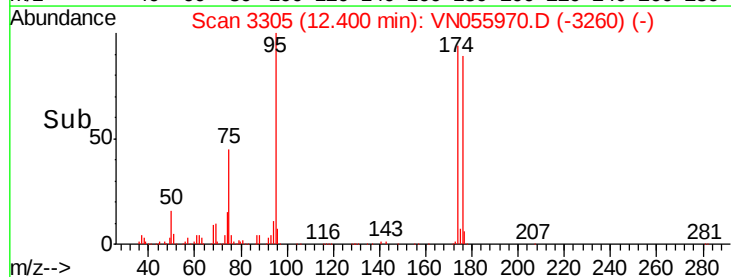
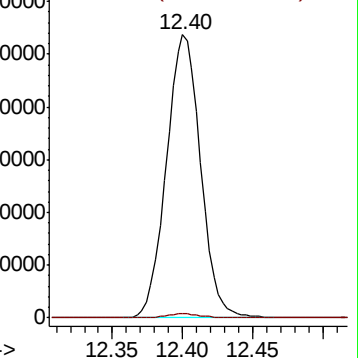
75 100

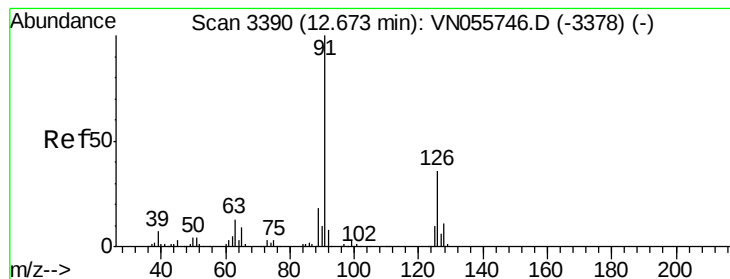
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055970.D

Acq: 3 Jun 2019 18:50

Instrument :

MSVOA_N

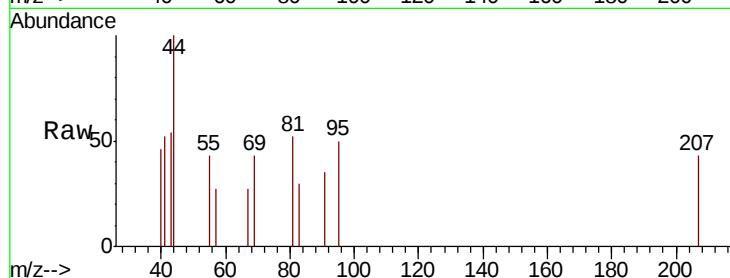
ClientSampled :

Tot Ion: 91 Resp: 391

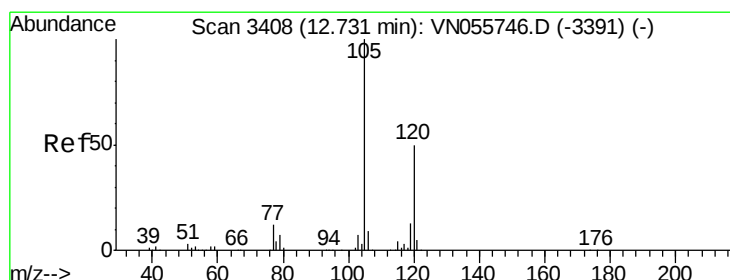
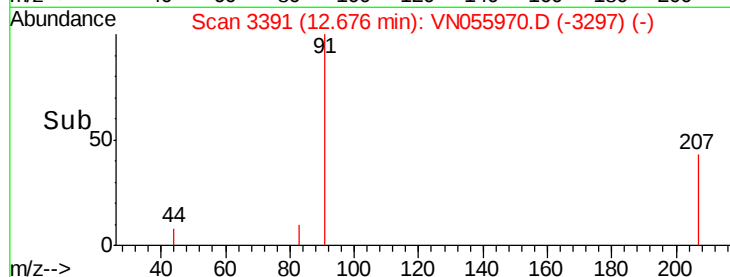
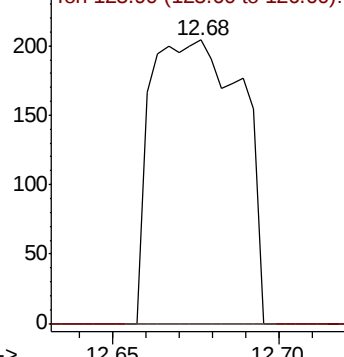
Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN055970.D (-3391) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.74 min Scan# 3410

Delta R.T. 0.01 min

Lab File: VN055970.D

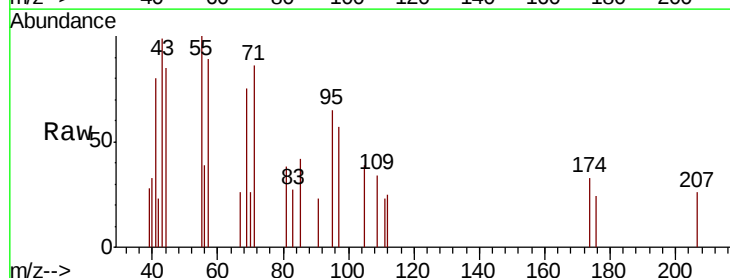
Acq: 3 Jun 2019 18:50

Tgt Ion: 105 Resp: 278

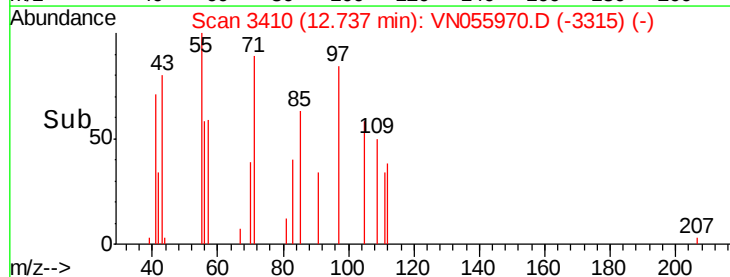
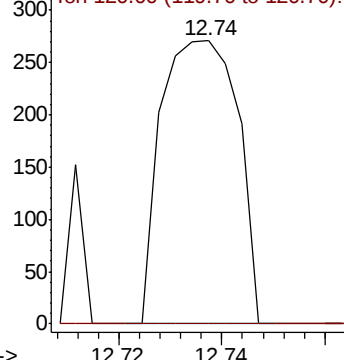
Ion Ratio Lower Upper

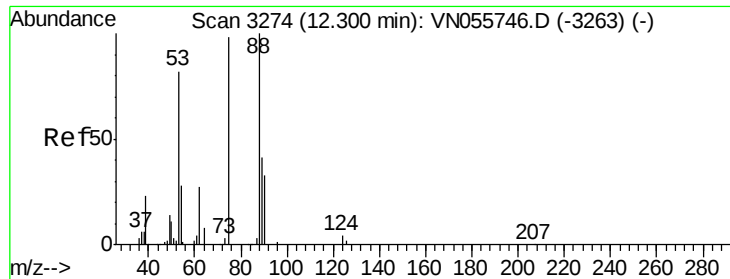
105 100

120 0.0 24.7 74.1#



Abundance Ion 105.00 (104.70 to 105.70): VN055970.D (-3410) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 64.654 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055970.D

Acq: 3 Jun 2019 18:50

Instrument :

MSVOA_N

ClientSampleId :

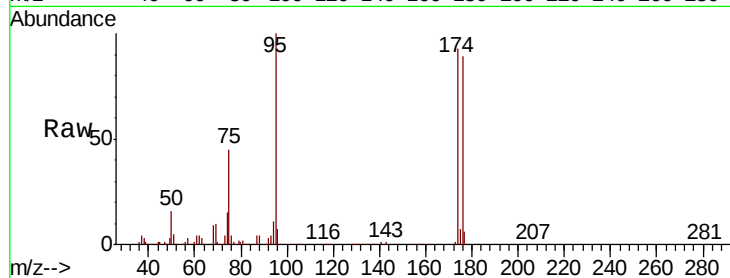
Tot Ion: 75 Resp: 91143

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

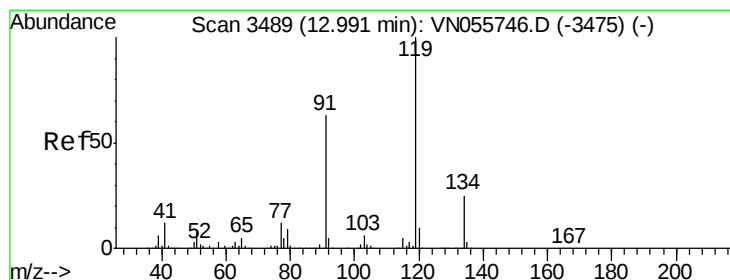
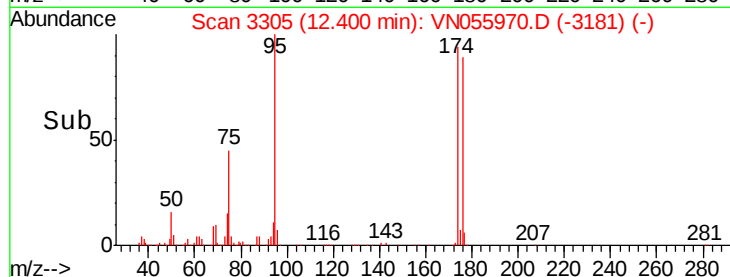
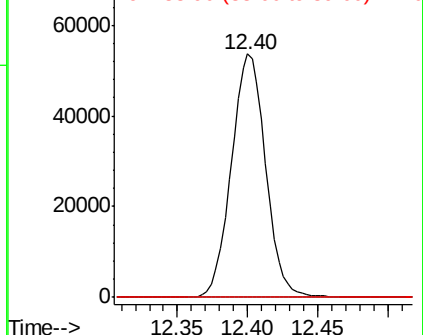
89 0.0 36.9 55.3#



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



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN055970.D

Acq: 3 Jun 2019 18:50

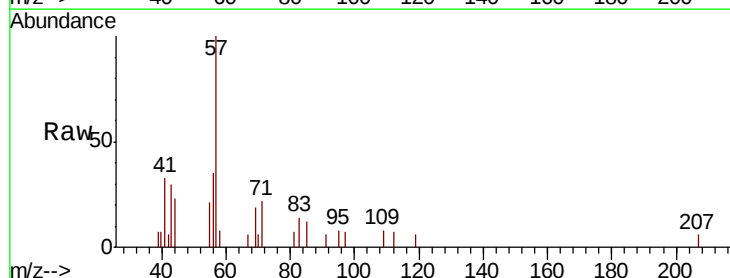
Tgt Ion: 119 Resp: 66

Ion Ratio Lower Upper

119 100

91 466.7 30.9 92.8#

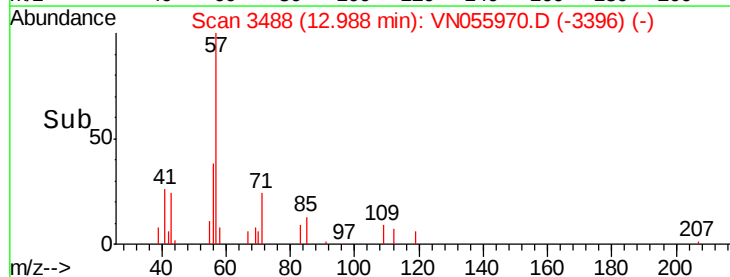
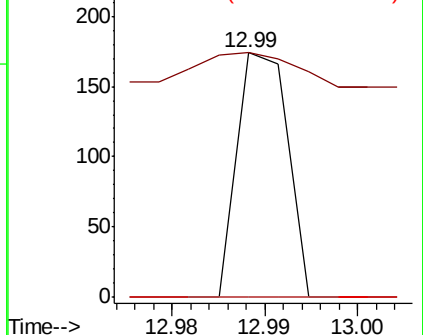
134 0.0 13.3 39.8#

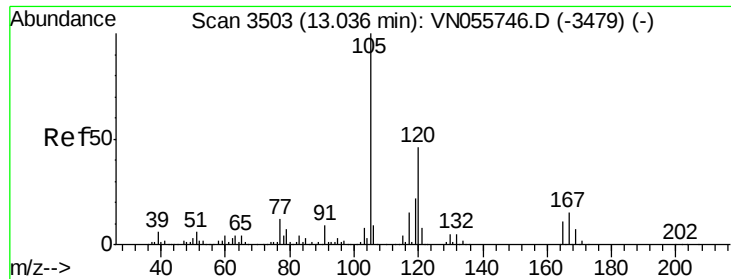


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V

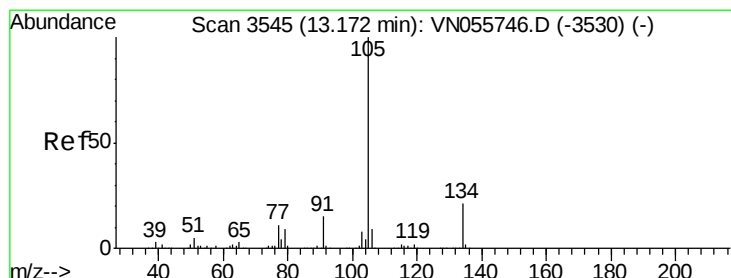
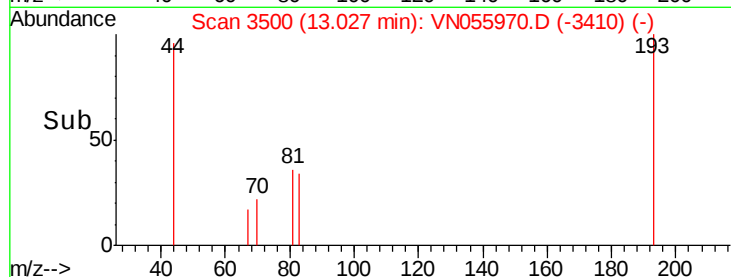
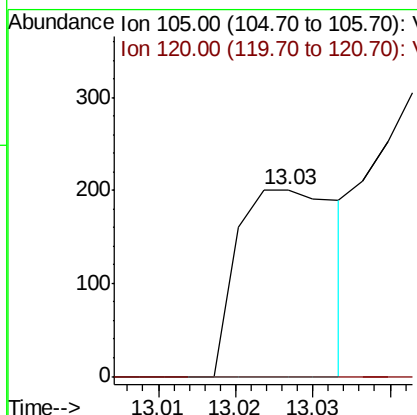
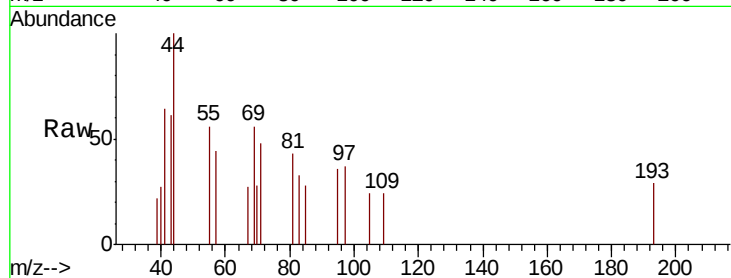




#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.03 min Scan# 3500
 Delta R.T. -0.01 min
 Lab File: VN055970.D
 Acq: 3 Jun 2019 18:50

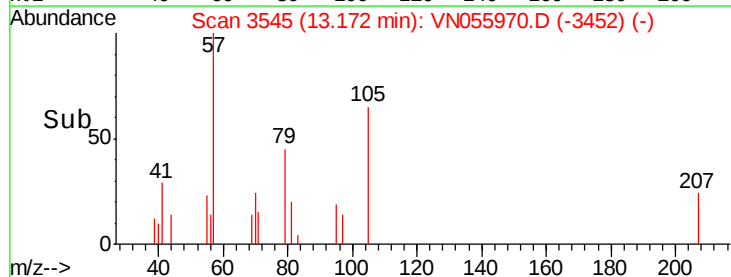
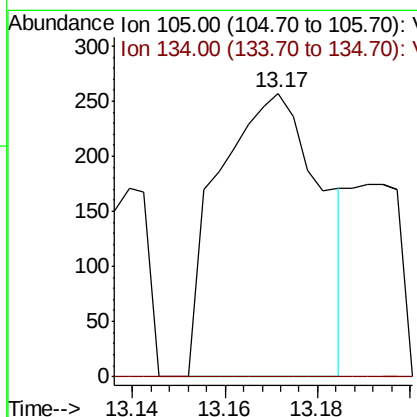
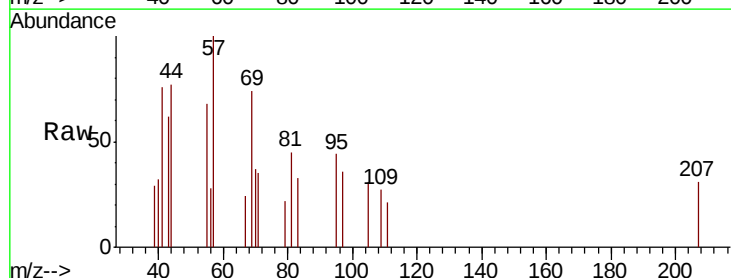
Instrument :
 MSVOA_N
 ClientSampled :

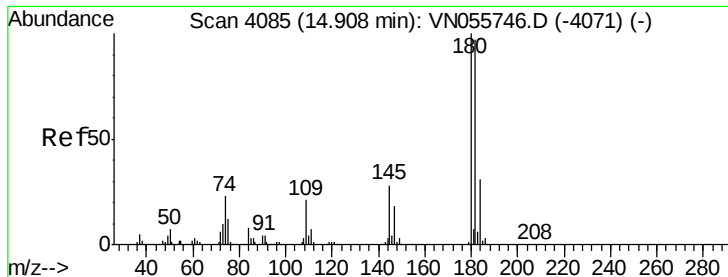
Tot Ion:105 Resp: 182
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.0 69.0#



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055970.D
 Acq: 3 Jun 2019 18:50

Tgt Ion:105 Resp: 397
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#

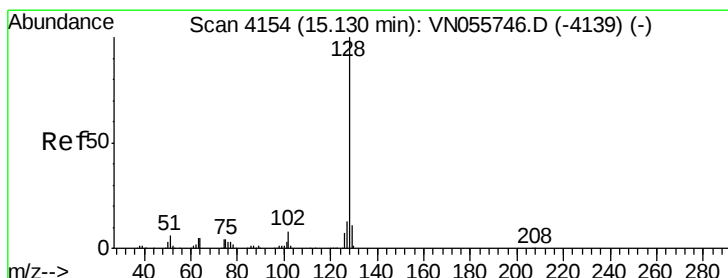
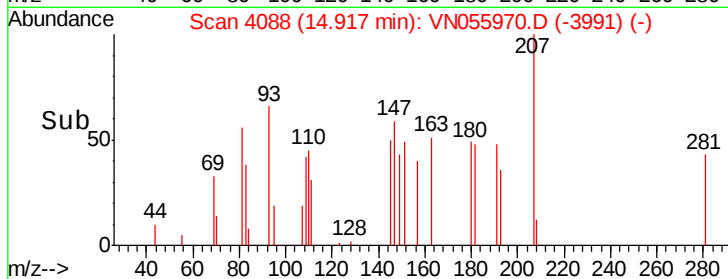
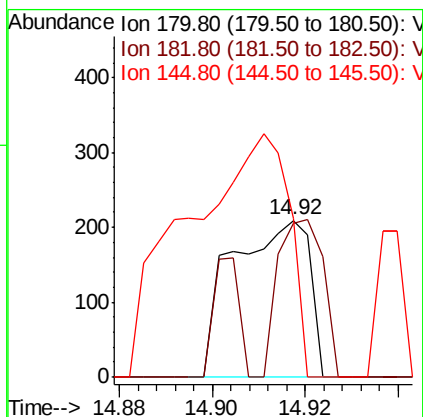
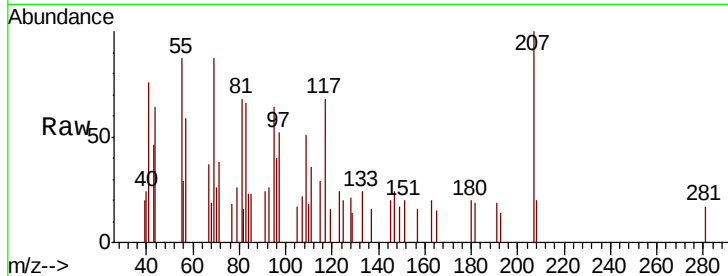




#93
 1,2,4-Trichlorobenzene
 Concen: 3.698 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.01 min
 Lab File: VN055970.D
 Acq: 3 Jun 2019 18:50

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 242
 Ion Ratio Lower Upper
 180 100
 182 59.1 48.3 144.9
 145 206.2 14.0 41.9#



#95
 Naphthalene
 Concen: 0.356 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN055970.D
 Acq: 3 Jun 2019 18:50

Tgt Ion:128 Resp: 3125
 Ion Ratio Lower Upper
 128 100
 127 18.2 10.3 15.5#
 129 6.9 8.7 13.1#

