

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060319\
 Data File : VN055952.D
 Acq On : 3 Jun 2019 11:19
 Operator : JC/SP
 Sample : VN0603WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 03 16:21:47 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

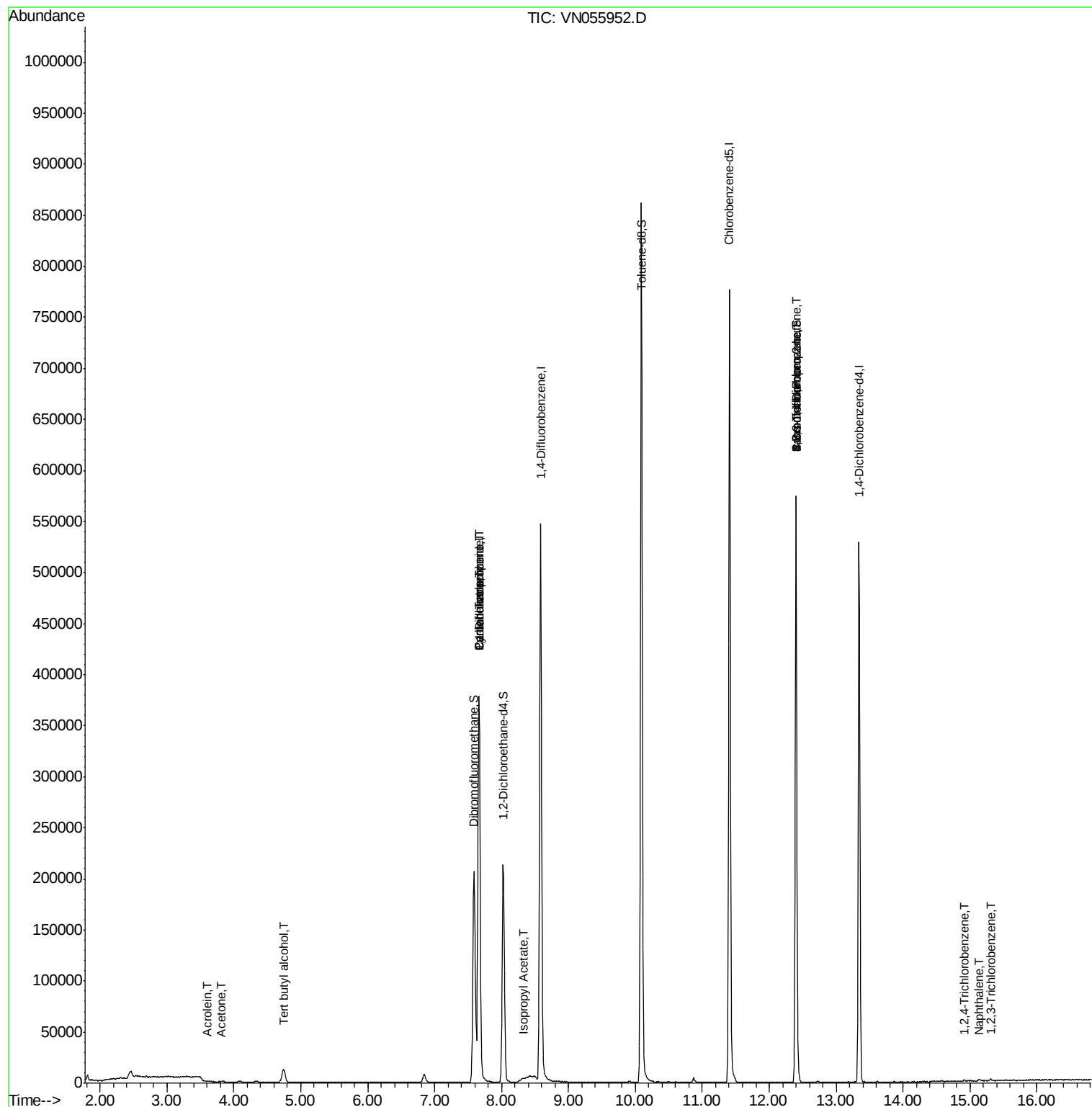
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	357979	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	540532	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	497805	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	162116	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	181425	49.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.14%	
35) Dibromofluoromethane	7.59	113	159316	46.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.24%	
50) Toluene-d8	10.09	98	644377	49.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.32%	
62) 4-Bromofluorobenzene	12.40	95	202828	45.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.24%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.74	59	11723	16.596	ug/l #	74
13) Acrolein	3.59	56	125	0.247	ug/l #	15
16) Acetone	3.82	43	677	0.417	ug/l #	41
18) Methyl Acetate	4.34	43	2613	Below Cal	#	66
31) Cyclohexane	7.66	56	5376	0.969	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	21519	4.568	ug/l #	48
38) Carbon Tetrachloride	7.66	117	30062	6.127	ug/l #	15
43) Isopropyl Acetate	8.32	43	4577	0.598	ug/l #	53
71) Bromoform	12.40	173	1402	0.414	ug/l #	1
73) Isopropylbenzene	12.26	105	278	Below Cal	#	48
74) N-amyl acetate	12.07	43	309	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	93920	32.546	ug/l #	100
79) 2-Chlorotoluene	12.67	91	296	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	385	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	93920	77.949	ug/l #	15
83) tert-Butylbenzene	12.99	119	103	Below Cal	#	56
84) 1,2,4-Trimethylbenzene	13.04	105	501	Below Cal	#	39
85) sec-Butylbenzene	13.17	105	533	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.91	180	734	3.853	ug/l #	79
94) Hexachlorobutadiene	15.00	225	64	Below Cal	#	19
95) Naphthalene	15.13	128	1694	0.226	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.31	180	984	0.341	ug/l #	81

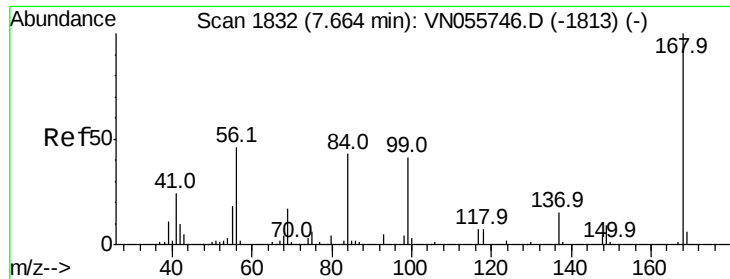
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1832

Delta R.T. 0.00 min

Lab File: VN055952.D

Acq: 3 Jun 2019 11:19

Instrument :

MSVOA_N

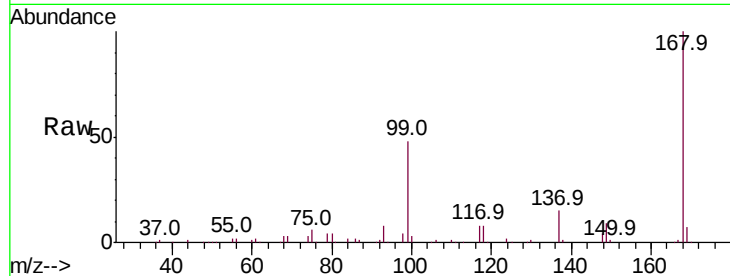
ClientSampleId :

Tot Ion:168 Resp: 357979

Ion Ratio Lower Upper

168 100

99 48.0 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055746.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055746.D (-1813) (-)

7.66

150000

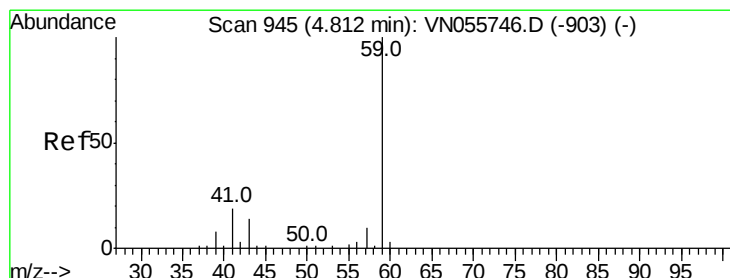
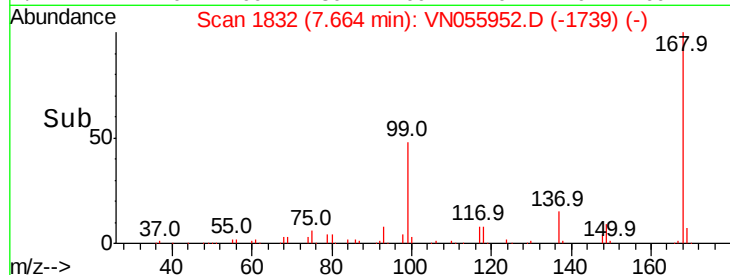
100000

50000

0

7.60 7.65 7.70 7.75

Time-->



#11

Tert butyl alcohol

Concen: 16.596 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.07 min

Lab File: VN055952.D

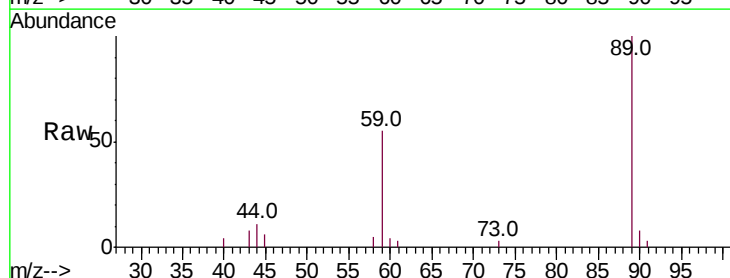
Acq: 3 Jun 2019 11:19

Tgt Ion: 59 Resp: 11723

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055746.D (-903) (-)

Ion 57.00 (56.70 to 57.70): VN055746.D (-903) (-)

4.74

4000

3000

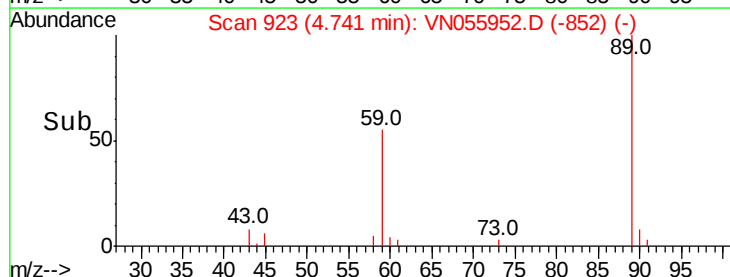
2000

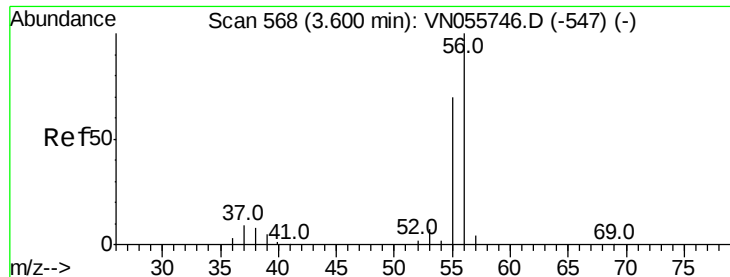
1000

0

4.65 4.70 4.75 4.80 4.85

Time-->





#13

Acrolein

Concen: 0.247 ug/l

RT: 3.59 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN055952.D

Acq: 3 Jun 2019 11:19

Instrument :

MSVOA_N

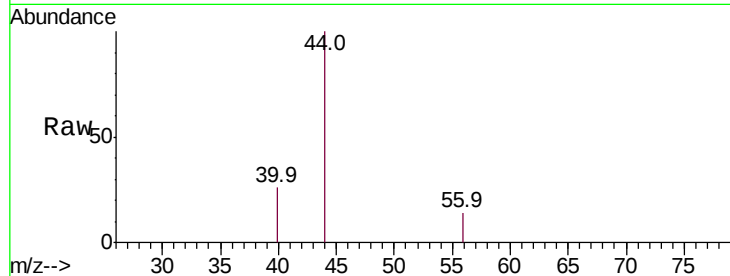
ClientSampled :

Tot Ion: 56 Resp: 125

Ion Ratio Lower Upper

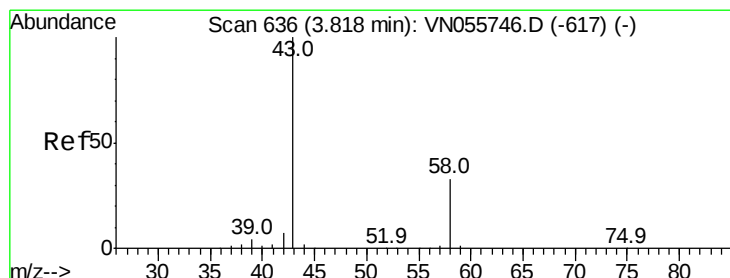
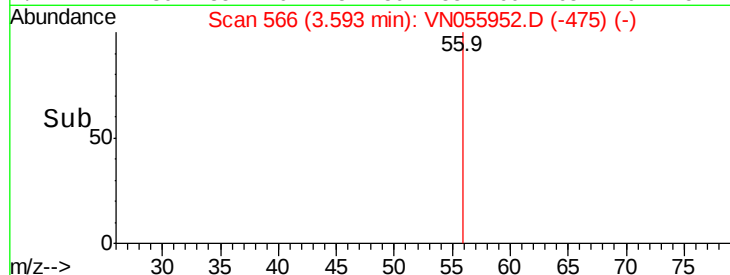
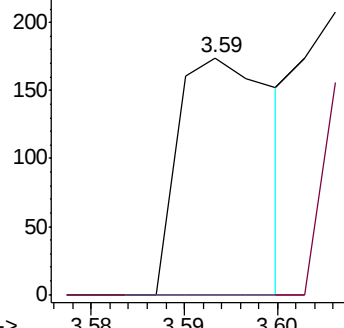
56 100

55 0.0 55.4 83.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 0.417 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN055952.D

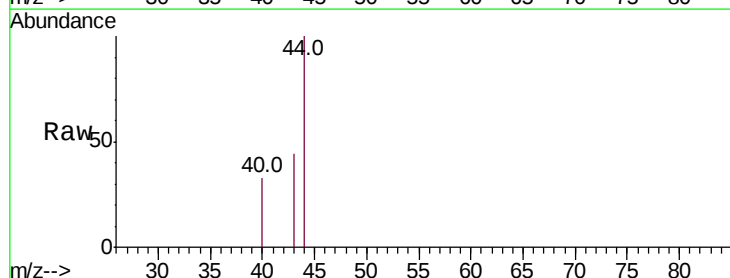
Acq: 3 Jun 2019 11:19

Tgt Ion: 43 Resp: 677

Ion Ratio Lower Upper

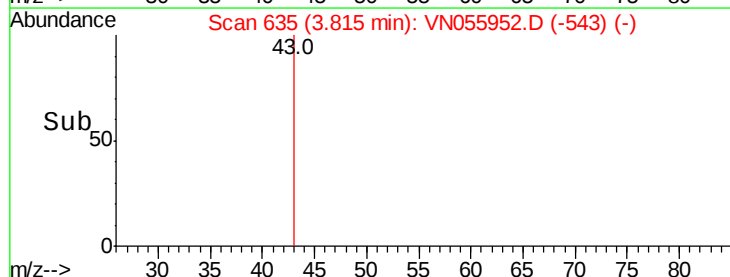
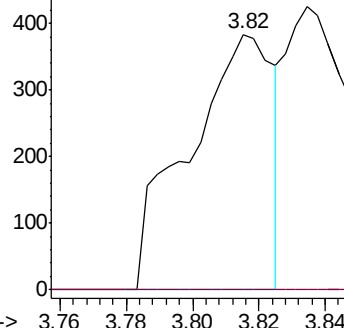
43 100

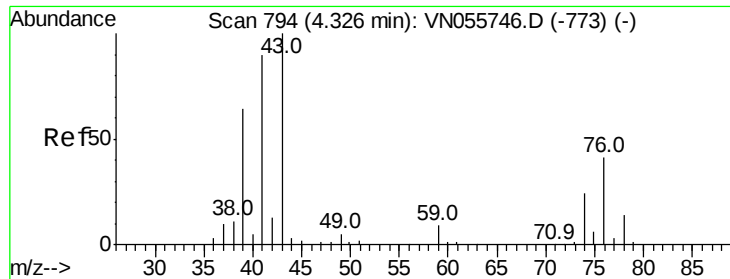
58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

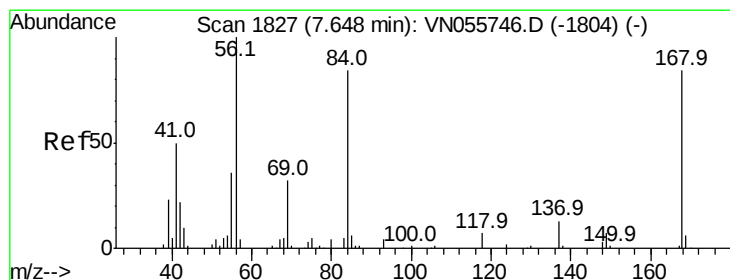
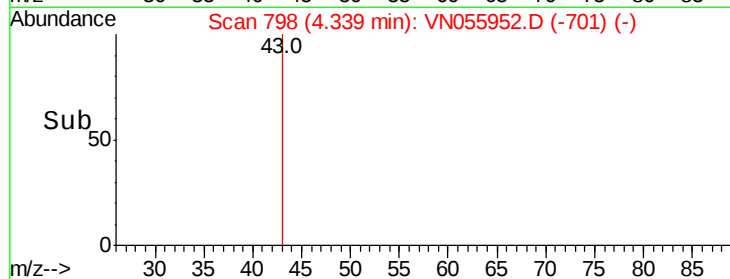
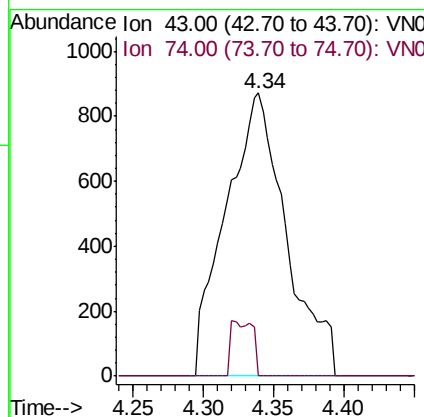
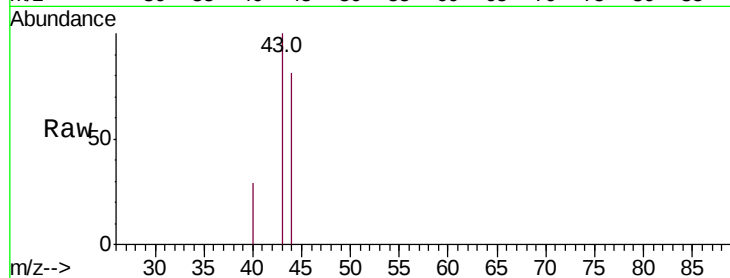




#18
Methvl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN055952.D
Acq: 3 Jun 2019 11:19

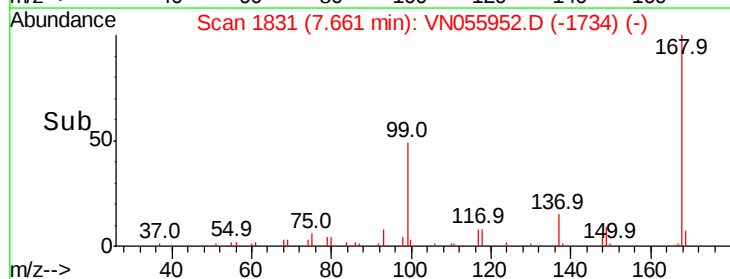
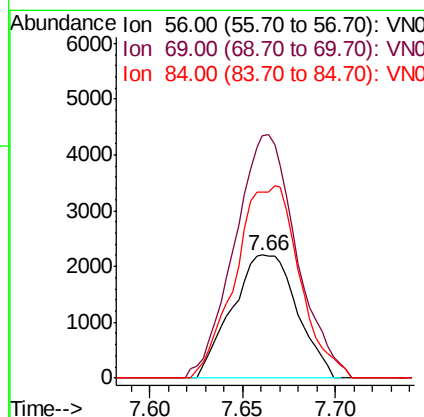
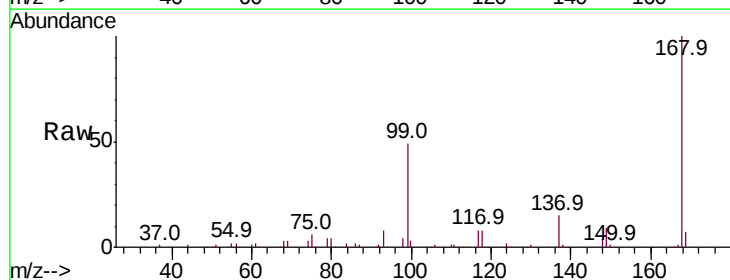
Instrument :
MSVOA_N
ClientSampled :

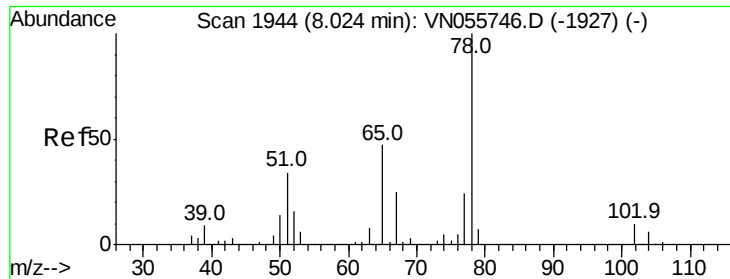
Tot Ion: 43 Resp: 2613
Ion Ratio Lower Upper
43 100
74 7.1 19.3 28.9#



#31
Cyclohexane
Concen: 0.969 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN055952.D
Acq: 3 Jun 2019 11:19

Tgt Ion: 56 Resp: 5376
Ion Ratio Lower Upper
56 100
69 189.6 25.6 38.4#
84 151.7 67.4 101.0#

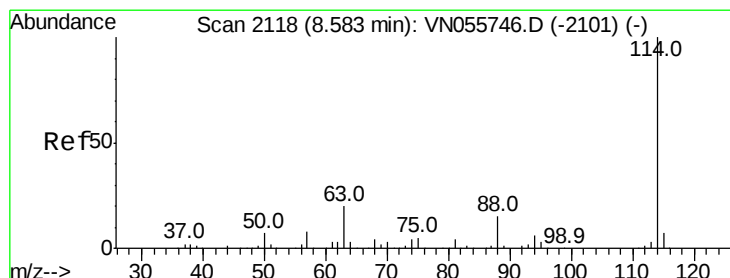
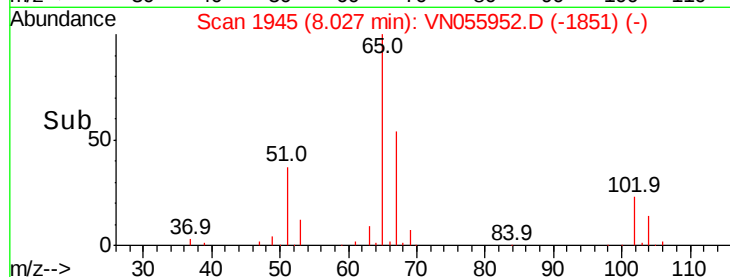
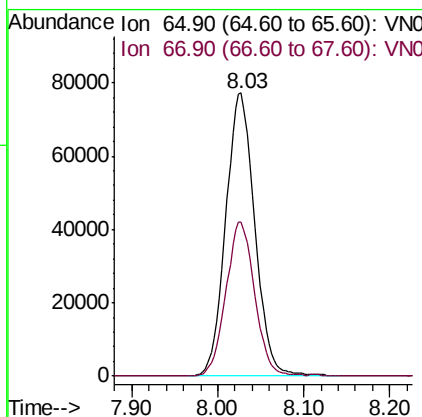
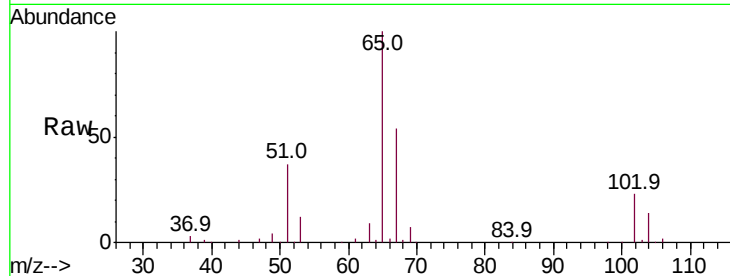




#33
 1,2-Dichloroethane-d4
 Concen: 49.075 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055952.D
 Acq: 3 Jun 2019 11:19

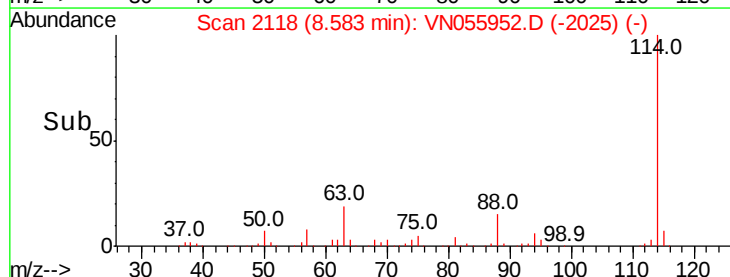
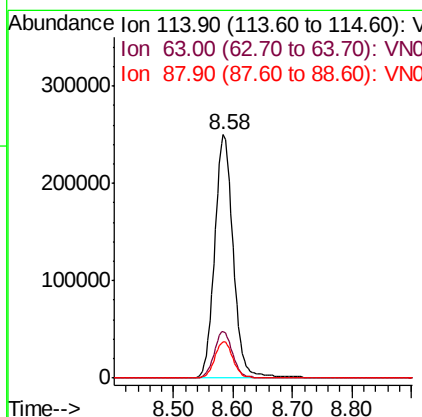
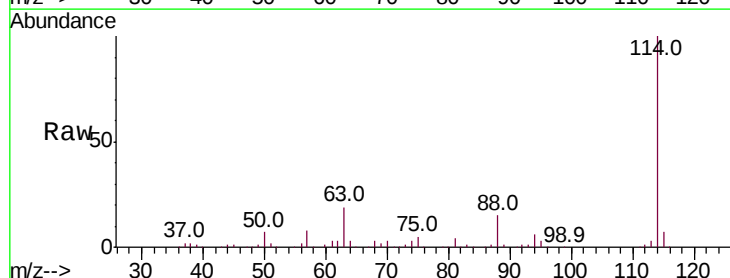
Instrument :
 MSVOA_N
 ClientSampled :

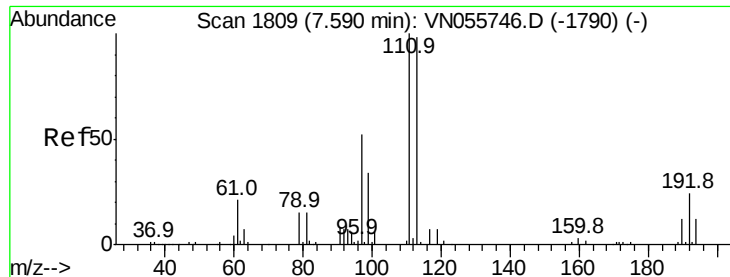
Tot Ion: 65 Resp: 181425
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055952.D
 Acq: 3 Jun 2019 11:19

Tgt Ion: 114 Resp: 540532
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 39.2
 88 15.0 0.0 31.0

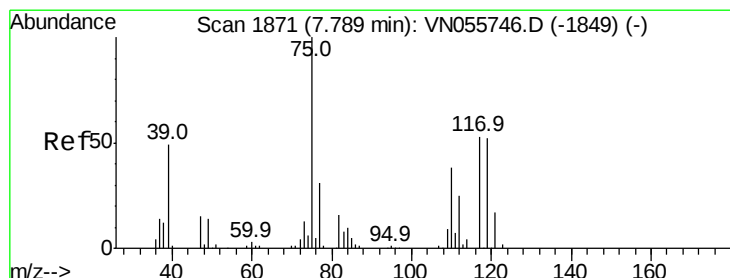
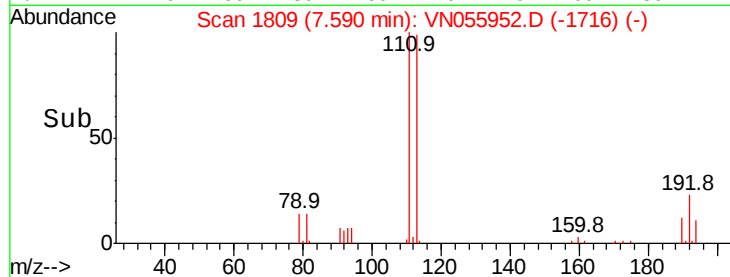
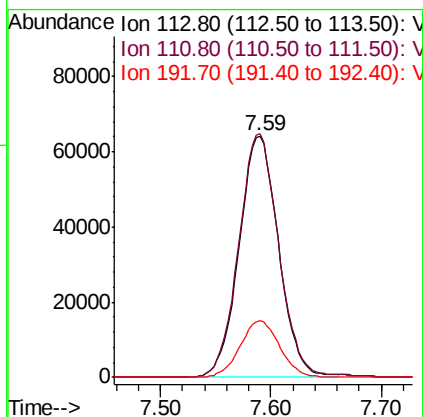
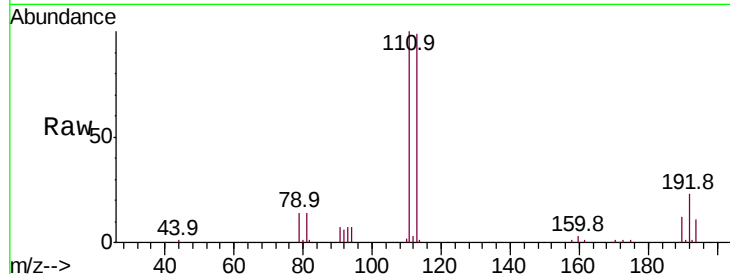




#35
 Dibromofluoromethane
 Concen: 46.619 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055952.D
 Acq: 3 Jun 2019 11:19

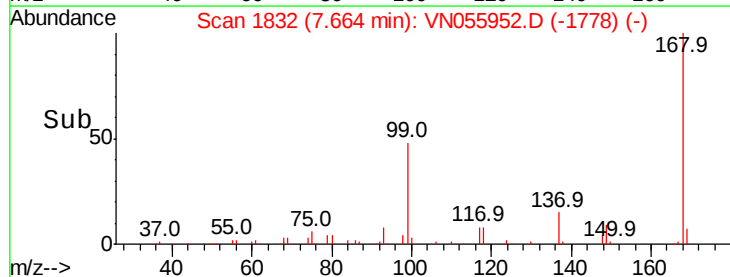
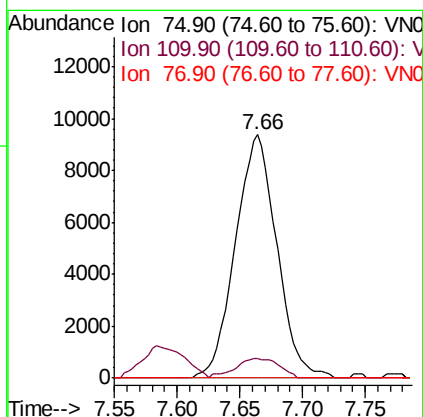
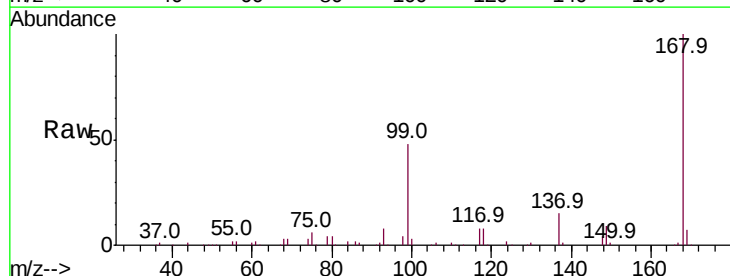
Instrument :
 MSVOA_N
 ClientSampleId :

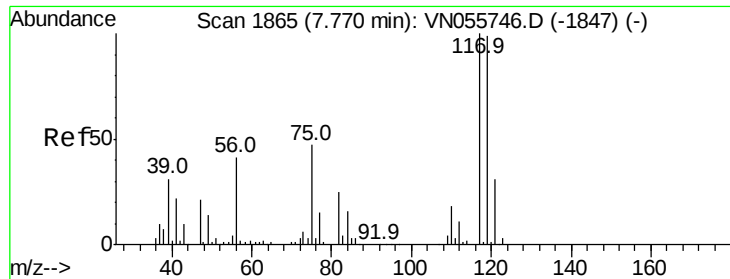
Tot Ion:113 Resp: 159316
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.9 122.9
 192 23.5 19.5 29.3



#36
 1,1-Dichloropropene
 Concen: 4.568 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055952.D
 Acq: 3 Jun 2019 11:19

Tgt Ion: 75 Resp: 21519
 Ion Ratio Lower Upper
 75 100
 110 8.6 19.0 57.0#
 77 0.0 25.1 37.7#

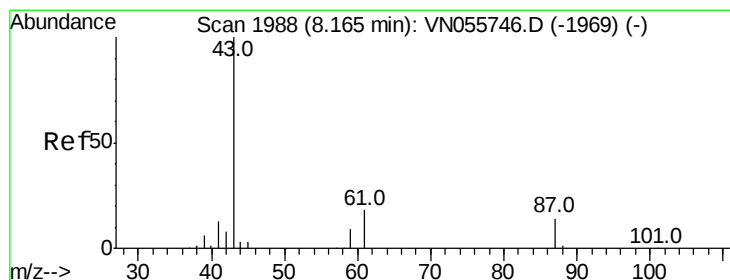
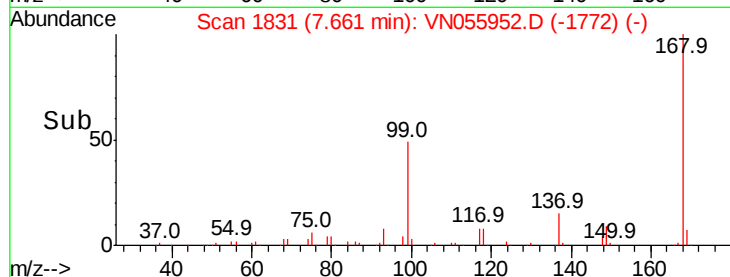
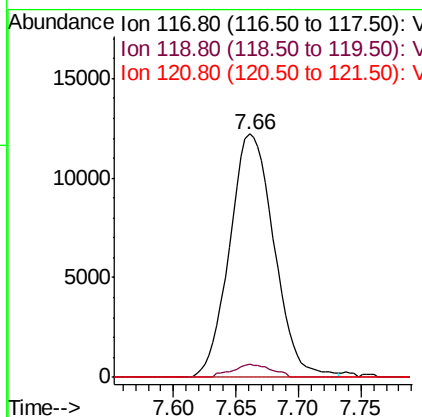
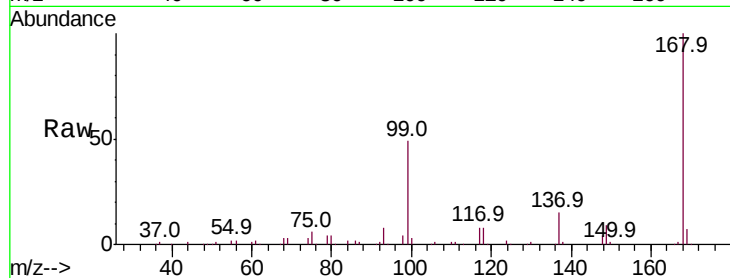




#38
Carbon Tetrachloride
Concen: 6.127 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN055952.D
Acq: 3 Jun 2019 11:19

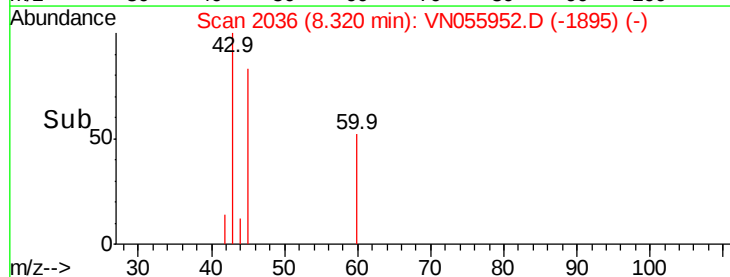
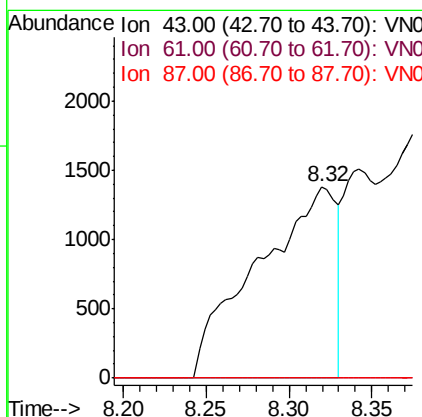
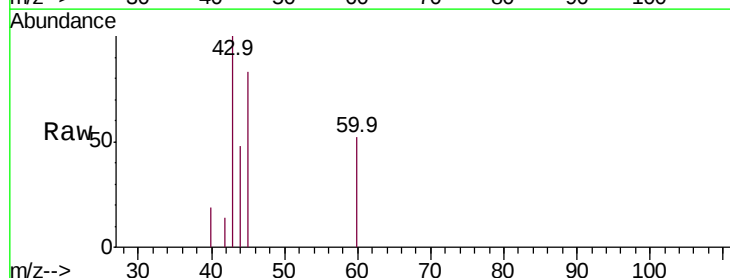
Instrument :
MSVOA_N
ClientSampled :

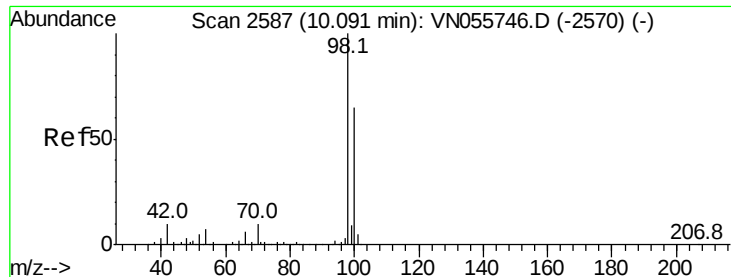
Tot Ion:117 Resp: 30062
Ion Ratio Lower Upper
117 100
119 5.3 79.0 118.6#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 0.598 ug/l
RT: 8.32 min Scan# 2036
Delta R.T. 0.15 min
Lab File: VN055952.D
Acq: 3 Jun 2019 11:19

Tgt Ion: 43 Resp: 4577
Ion Ratio Lower Upper
43 100
61 0.0 22.2 33.4#
87 0.0 11.4 17.2#

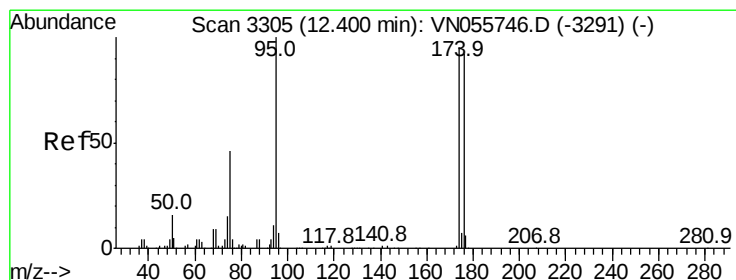
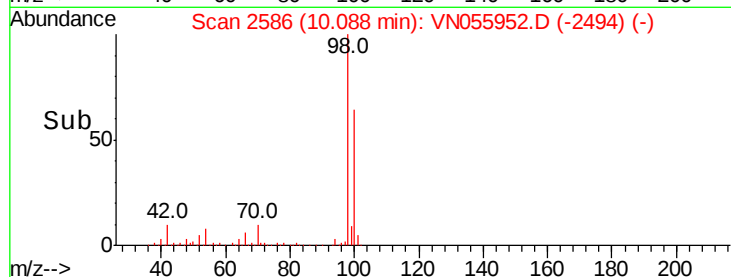
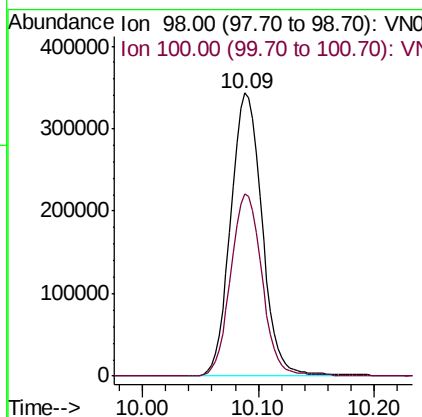
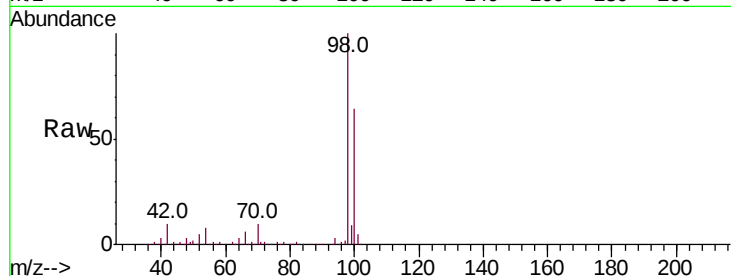




#50
Toluene-d8
Concen: 49.156 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN055952.D
Acq: 3 Jun 2019 11:19

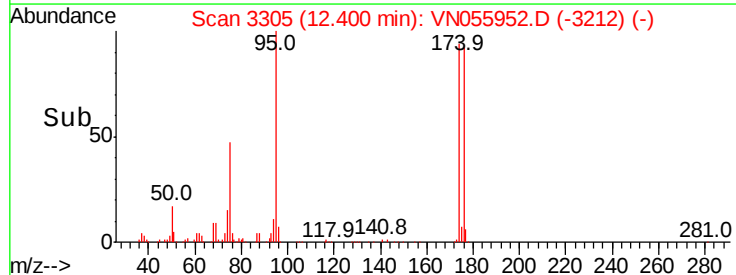
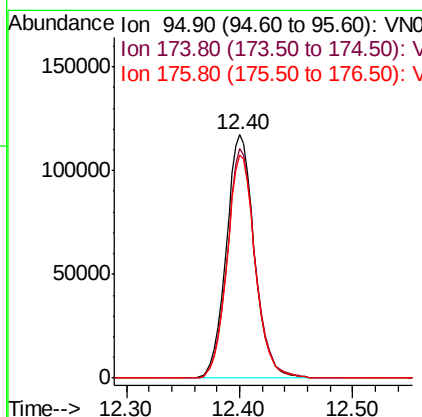
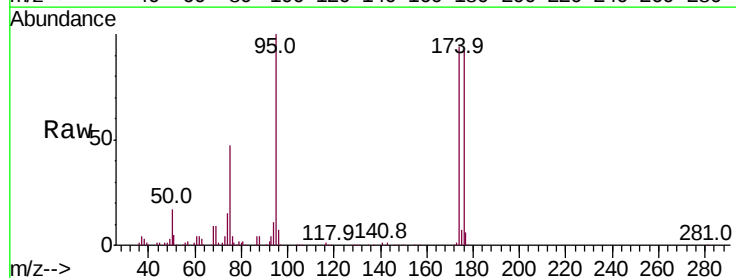
Instrument :
MSVOA_N
ClientSampleId :

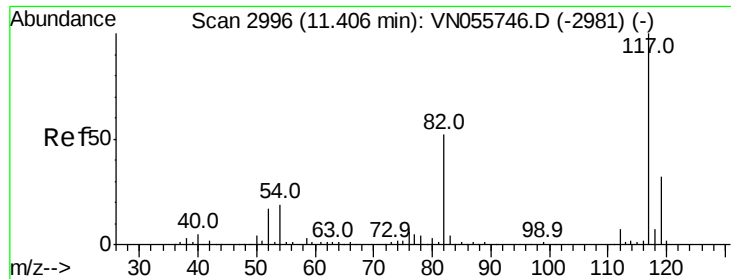
Tot Ion: 98 Resp: 644377
Ion Ratio Lower Upper
98 100
100 64.3 51.9 77.9



#62
4-Bromofluorobenzene
Concen: 45.124 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055952.D
Acq: 3 Jun 2019 11:19

Tgt Ion: 95 Resp: 202828
Ion Ratio Lower Upper
95 100
174 93.6 0.0 191.0
176 91.2 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: VN055952.D

Acq: 3 Jun 2019 11:19

Instrument :

MSVOA_N

ClientSampled :

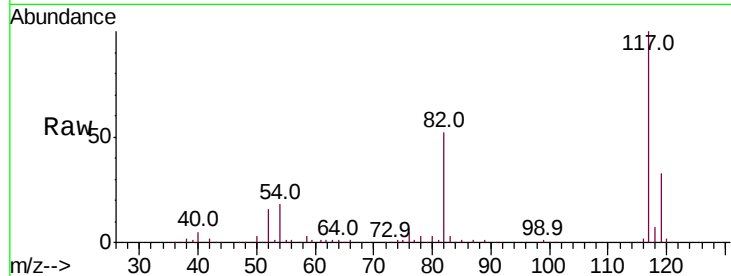
Tot Ion:117 Resp: 497805

Ion Ratio Lower Upper

117 100

82 52.4 41.8 62.8

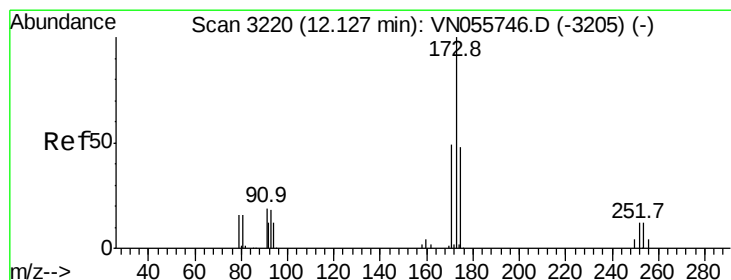
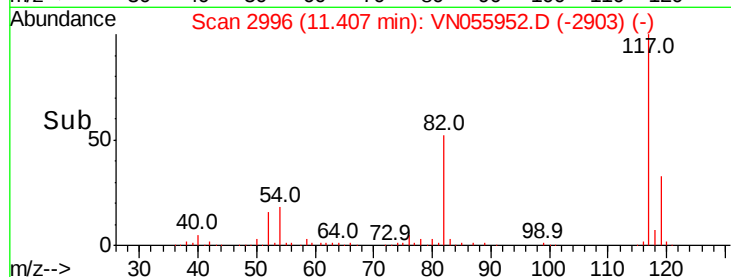
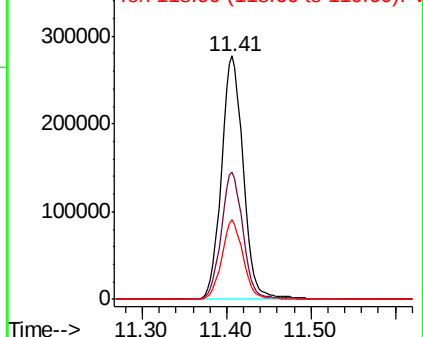
119 32.5 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.414 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055952.D

Acq: 3 Jun 2019 11:19

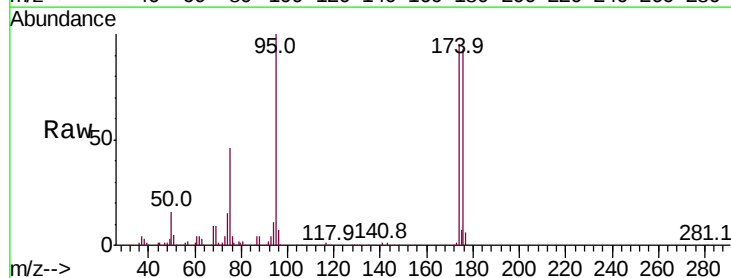
Tgt Ion:173 Resp: 1402

Ion Ratio Lower Upper

173 100

175 846.5 24.3 72.8#

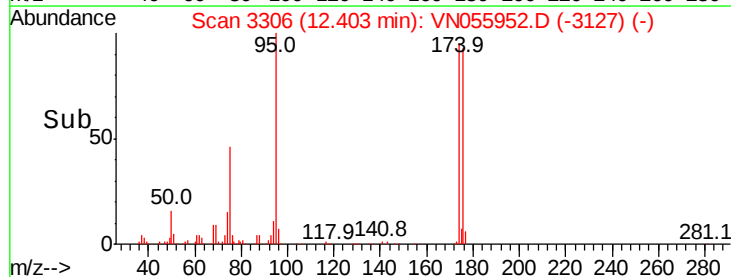
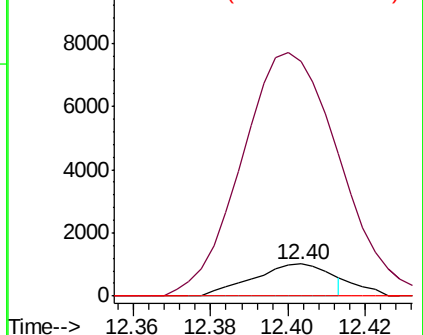
254 0.0 0.0 0.0

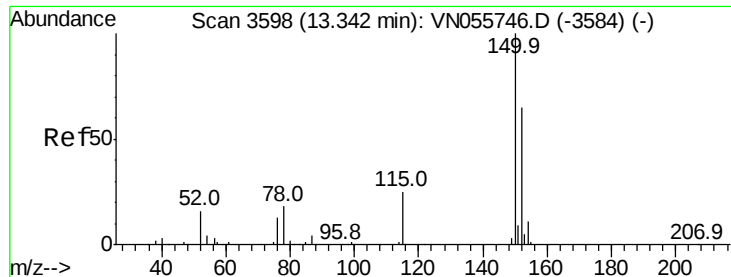


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



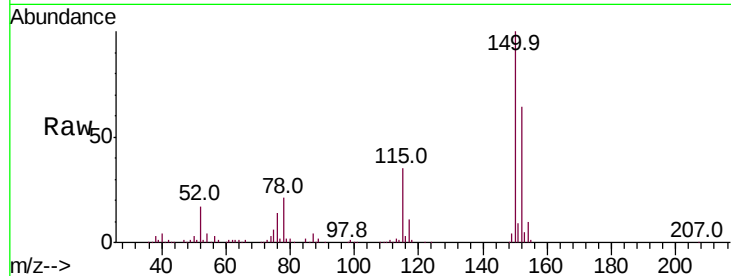


#72

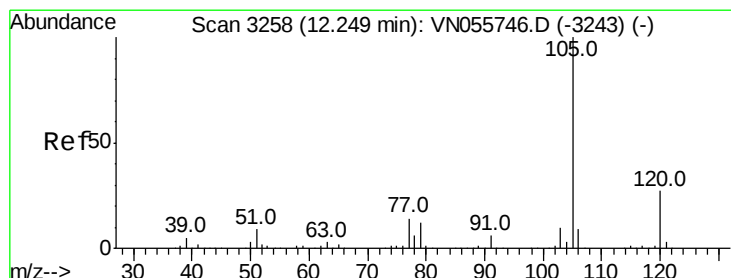
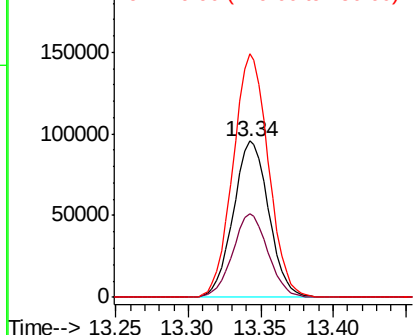
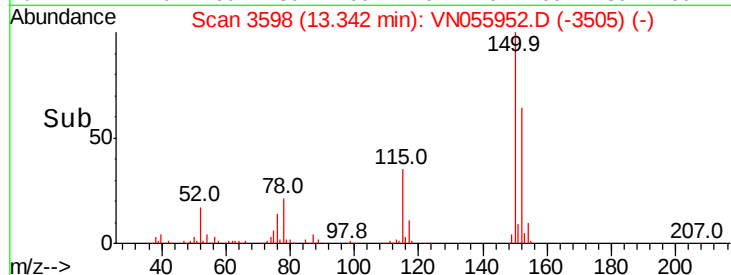
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055952.D
Acq: 3 Jun 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 162116
Ion Ratio Lower Upper
152 100
115 53.1 27.0 81.0
150 155.7 0.0 343.2



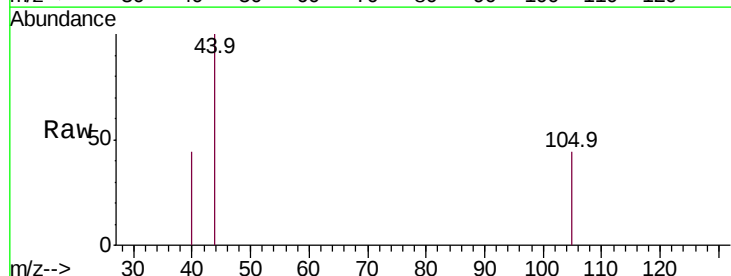
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



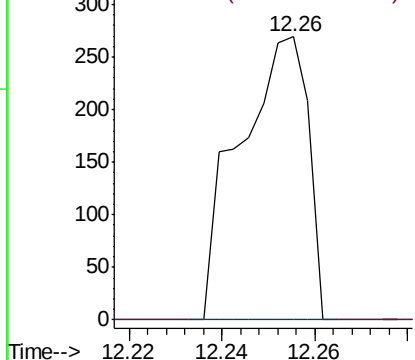
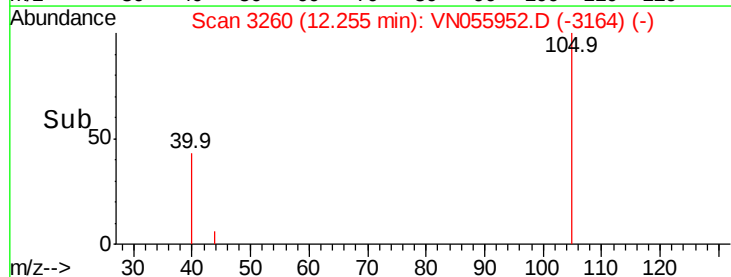
#73

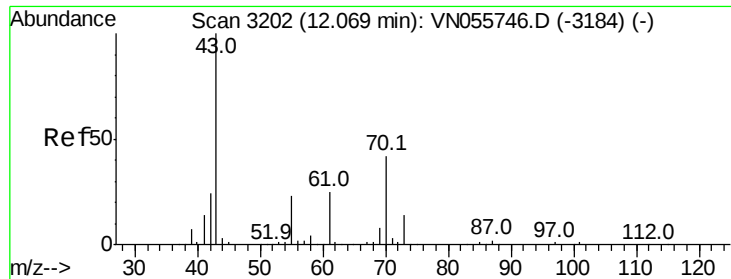
Isopropylbenzene
Concen: Below Cal
RT: 12.26 min Scan# 3260
Delta R.T. 0.01 min
Lab File: VN055952.D
Acq: 3 Jun 2019 11:19

Tgt Ion:105 Resp: 278
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





#74

N-amvl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055952.D

Acq: 3 Jun 2019 11:19

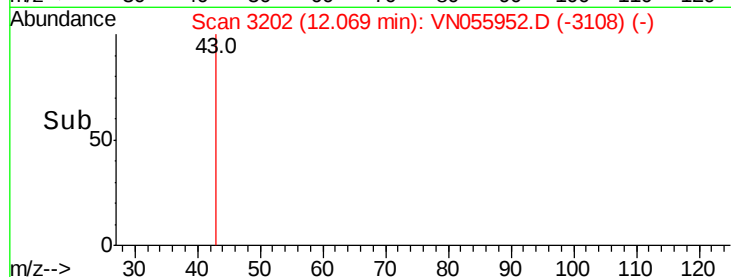
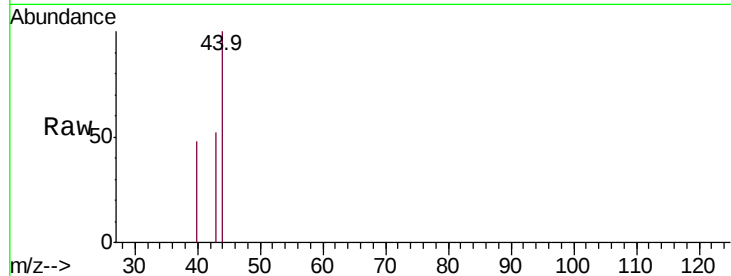
Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 309

Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.0	51.0#
55	0.0	18.6	28.0#
61	0.0	20.0	30.0#

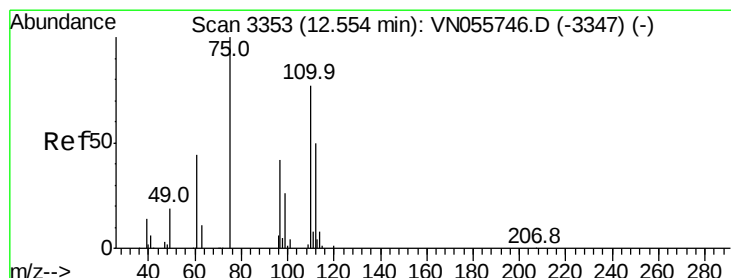


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 32.546 ug/l

RT: 12.40 min Scan# 3305

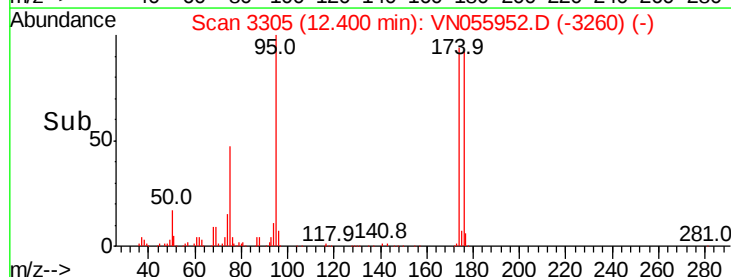
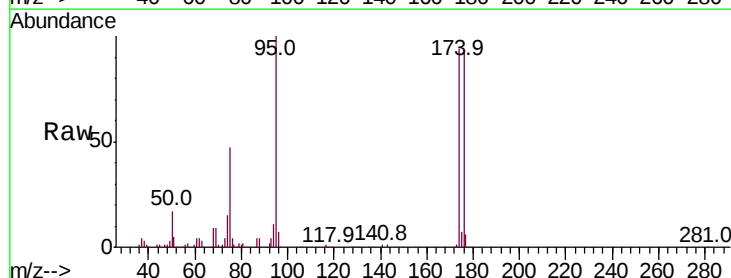
Delta R.T. -0.15 min

Lab File: VN055952.D

Acq: 3 Jun 2019 11:19

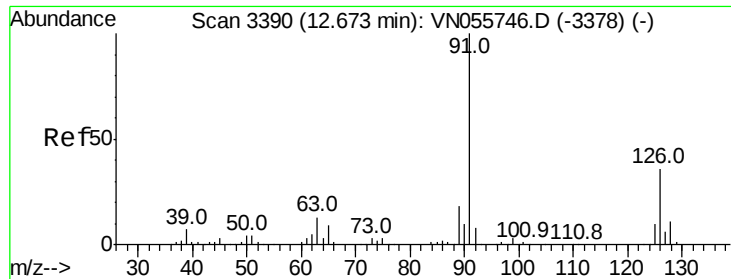
Tgt Ion: 75 Resp: 93920

Ion	Ratio	Lower	Upper
75	100		
77	1.0	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: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055952.D

Acq: 3 Jun 2019 11:19

Instrument :

MSVOA_N

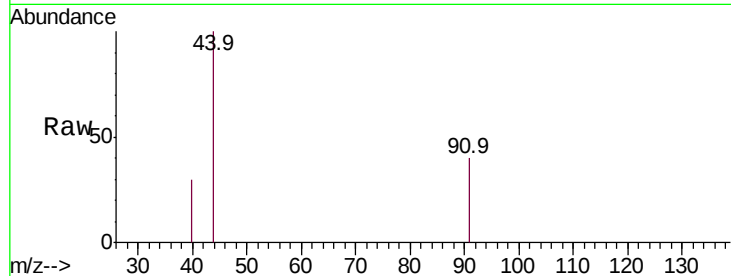
ClientSampled :

Tot Ion: 91 Resp: 296

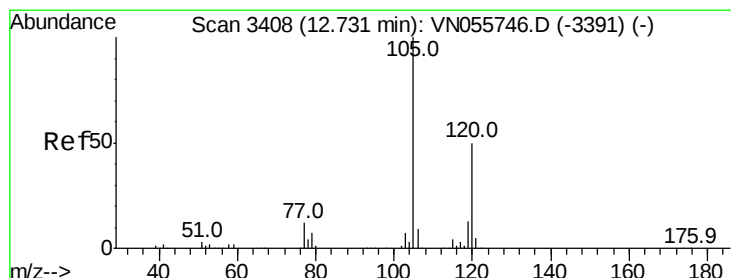
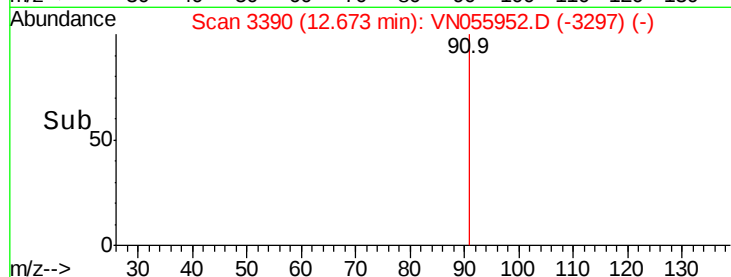
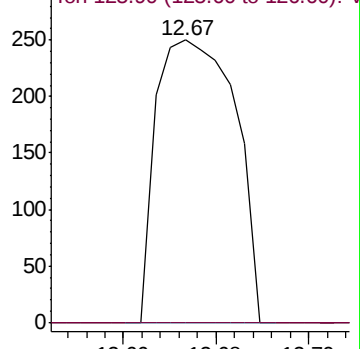
Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN055746.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN055952.D

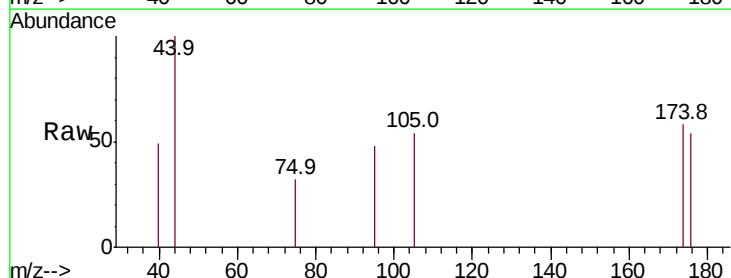
Acq: 3 Jun 2019 11:19

Tgt Ion: 105 Resp: 385

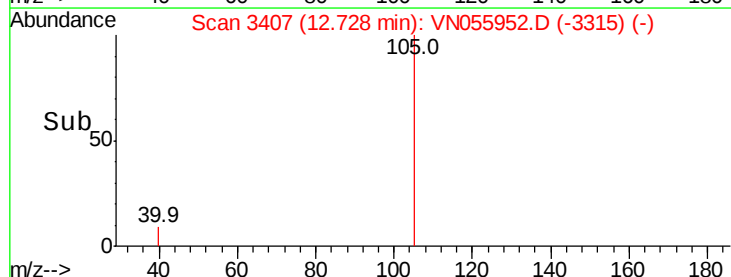
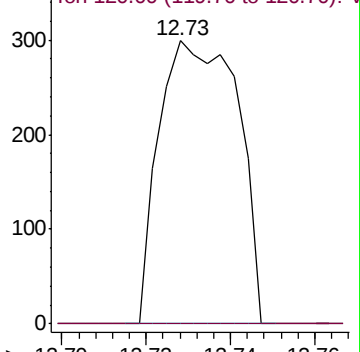
Ion Ratio Lower Upper

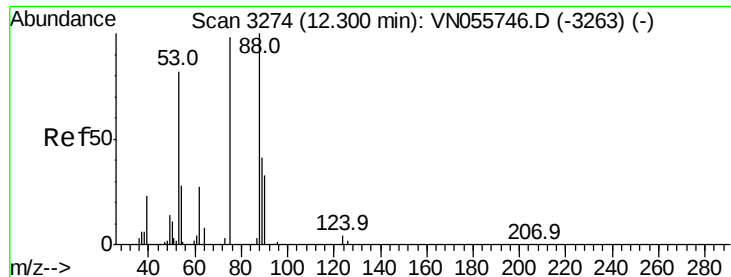
105 100

120 0.0 24.7 74.1#



Abundance Ion 105.00 (104.70 to 105.70): VN055746.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 77.949 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055952.D

Acq: 3 Jun 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

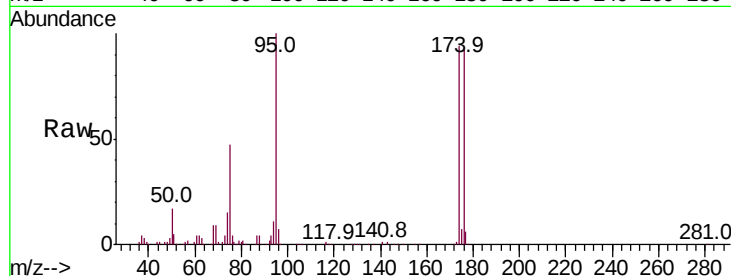
Tot Ion: 75 Resp: 93920

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

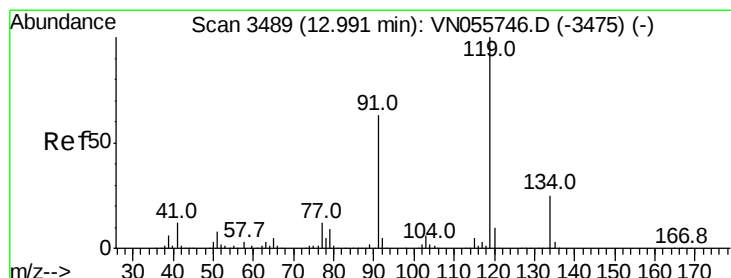
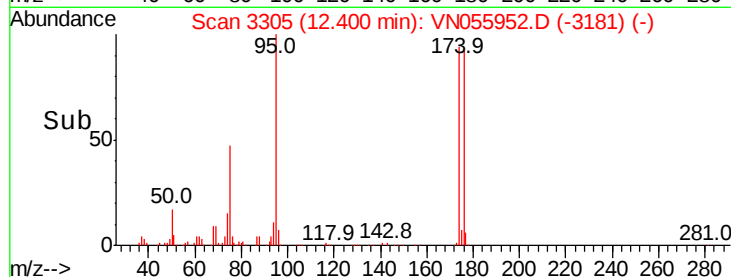
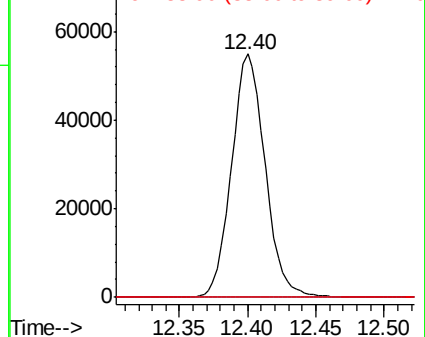
89 0.0 36.9 55.3#



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: VN055952.D

Acq: 3 Jun 2019 11:19

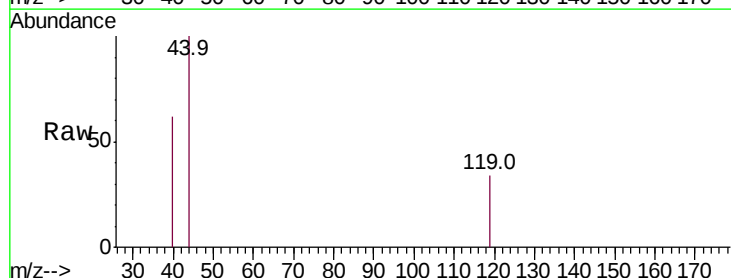
Tgt Ion: 119 Resp: 103

Ion Ratio Lower Upper

119 100

91 30.1 30.9 92.8#

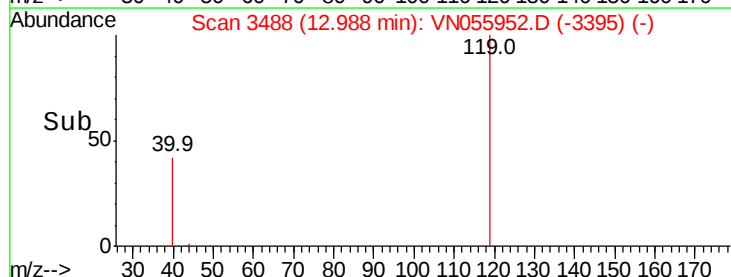
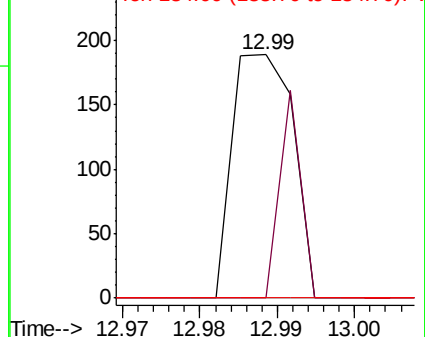
134 0.0 13.3 39.8#

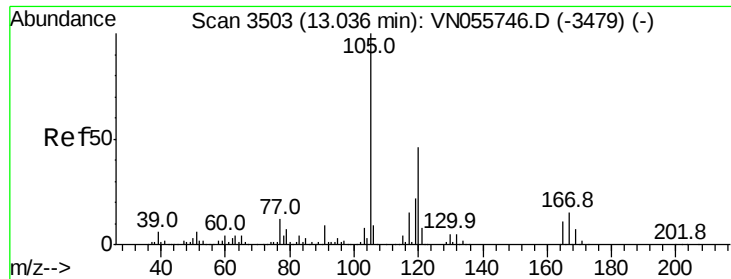


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V

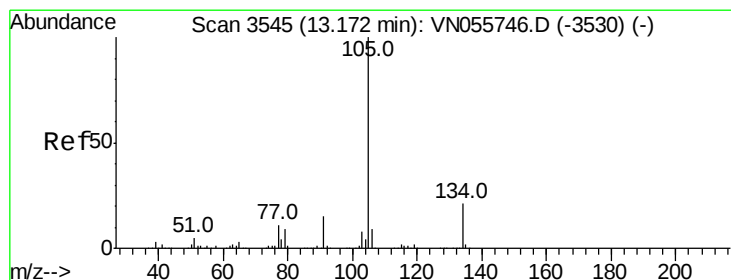
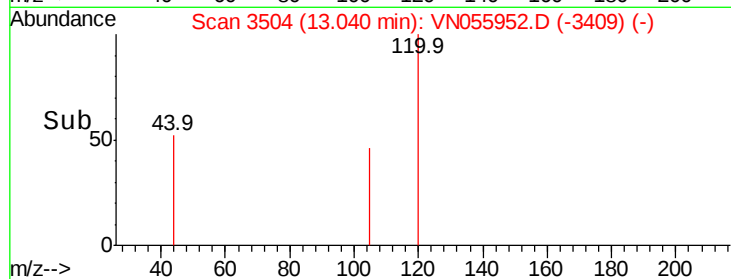
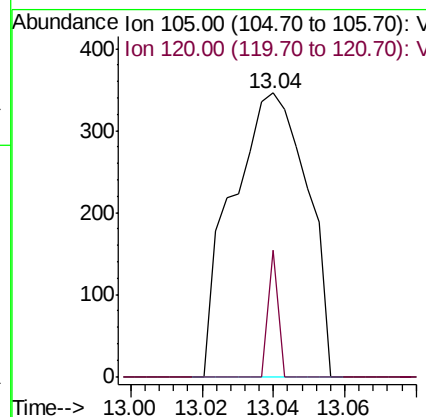
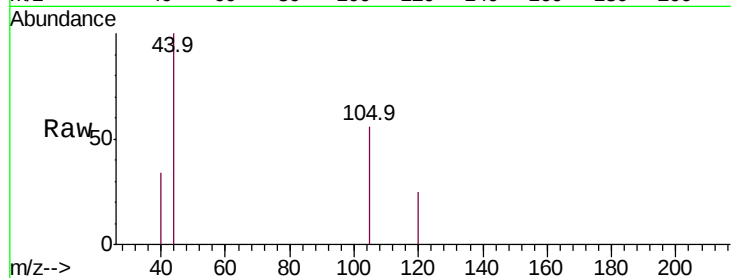




#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055952.D
 Acq: 3 Jun 2019 11:19

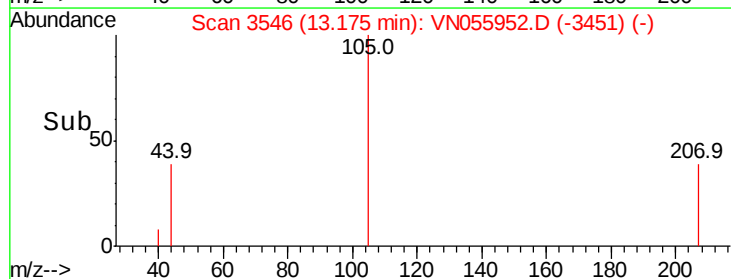
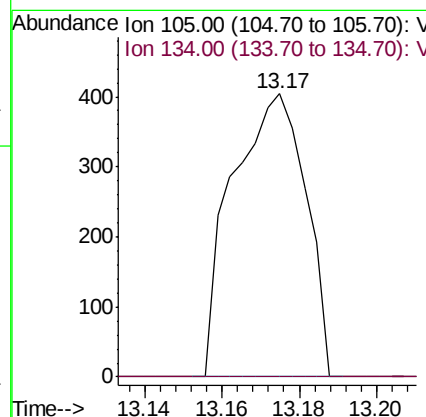
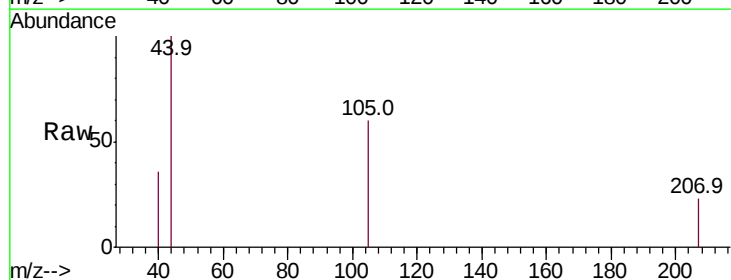
Instrument :
 MSVOA_N
 ClientSampleId :

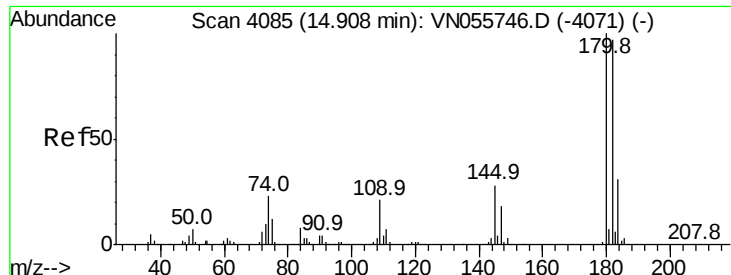
Tot Ion:105 Resp: 501
 Ion Ratio Lower Upper
 105 100
 120 6.0 23.0 69.0#



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN055952.D
 Acq: 3 Jun 2019 11:19

Tgt Ion:105 Resp: 533
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#

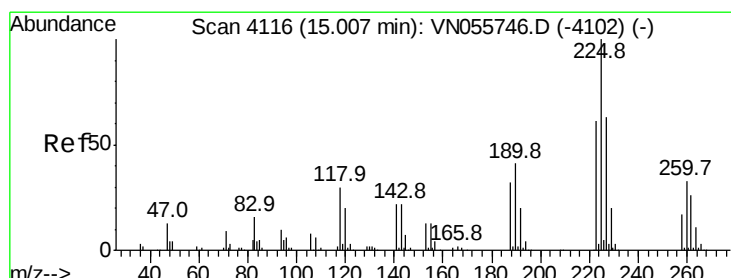
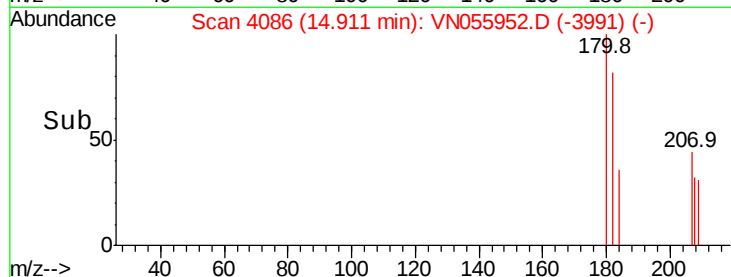
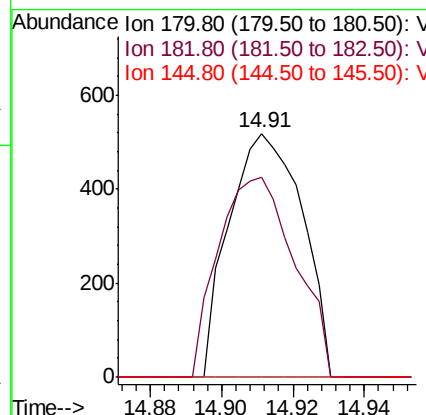
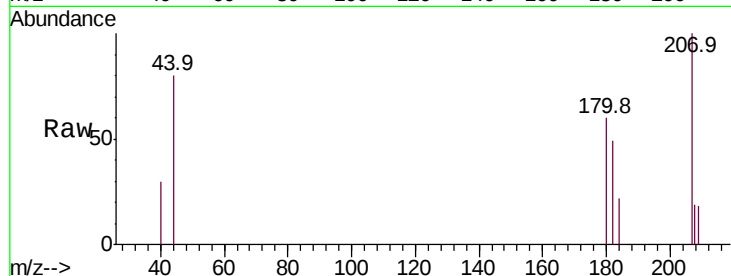




#93
 1,2,4-Trichlorobenzene
 Concen: 3.853 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN055952.D
 Acq: 3 Jun 2019 11:19

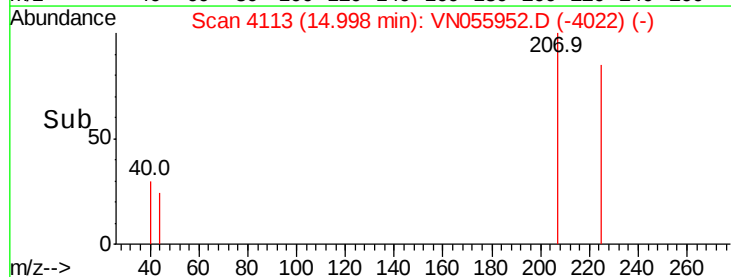
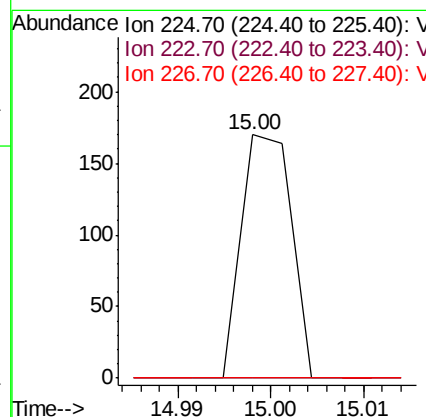
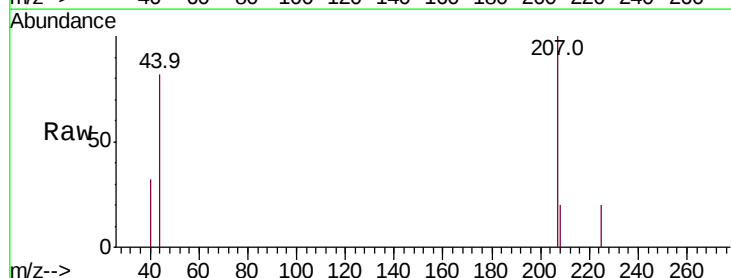
Instrument :
 MSVOA_N
 ClientSampleId :

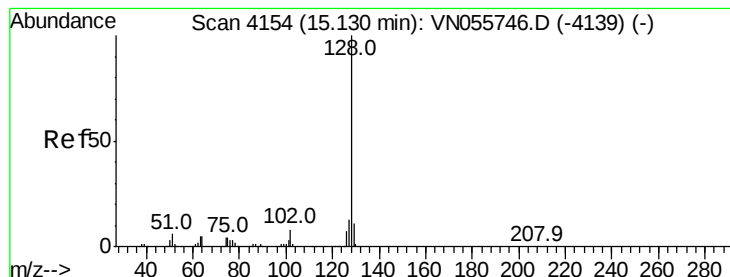
Tot Ion:180 Resp: 734
 Ion Ratio Lower Upper
 180 100
 182 85.7 48.3 144.9
 145 0.0 14.0 41.9#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.00 min Scan# 4113
 Delta R.T. -0.01 min
 Lab File: VN055952.D
 Acq: 3 Jun 2019 11:19

Tgt Ion:225 Resp: 64
 Ion Ratio Lower Upper
 225 100
 223 0.0 30.9 92.7#
 227 0.0 31.6 94.7#





#95

Naphthalene

Concen: 0.226 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055952.D

Acq: 3 Jun 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

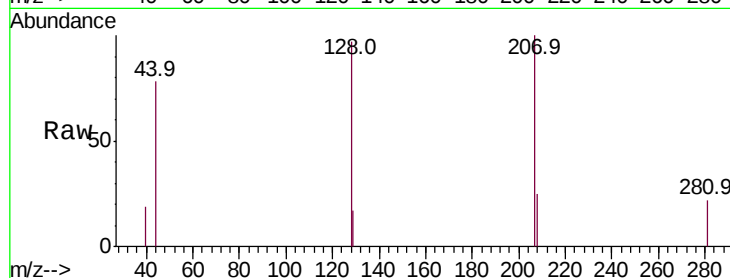
Tot Ion:128 Resp: 1694

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

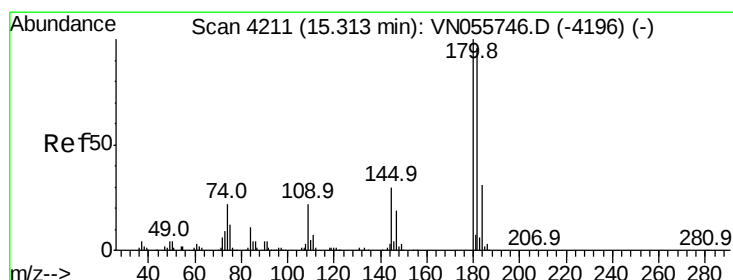
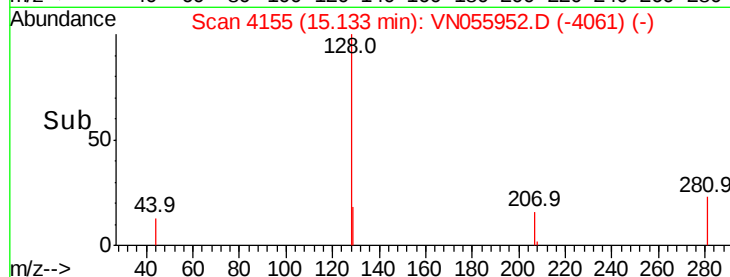
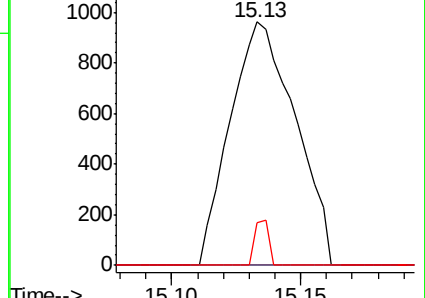
129 4.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.341 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055952.D

Acq: 3 Jun 2019 11:19

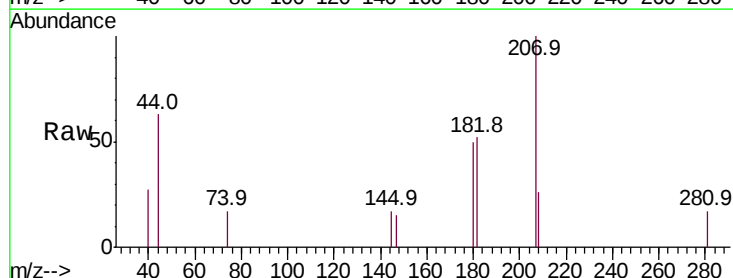
Tgt Ion:180 Resp: 984

Ion Ratio Lower Upper

180 100

182 80.6 47.9 143.7

145 14.0 14.9 44.7#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

