

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041519\
 Data File : VN055053.D
 Acq On : 15 Apr 2019 20:01
 Operator : JC/SP
 Sample : K2397-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1-S

Quant Time: Apr 16 05:53:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	534387	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	862037	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	726759	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	241346	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	342082	48.16	ug/l	0.00
Spiked Amount			Recovery	=	96.32%	
35) Dibromofluoromethane	7.59	113	275570	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	
50) Toluene-d8	10.09	98	1034769	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
62) 4-Bromofluorobenzene	12.40	95	305953	45.64	ug/l	0.00
Spiked Amount			Recovery	=	91.28%	

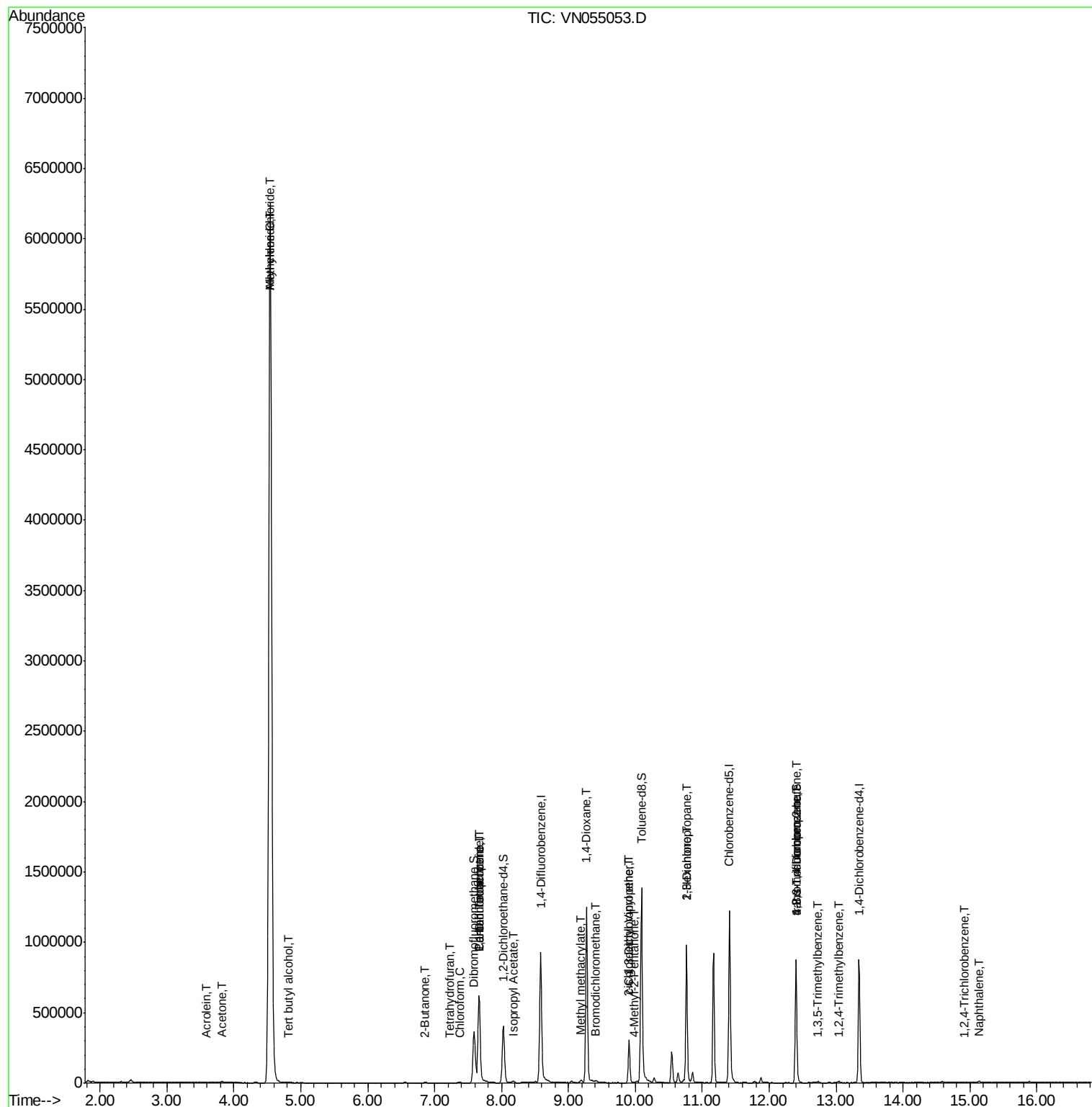
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.81	59	208	0.534	ug/l #	72
13) Acrolein	3.60	56	340	0.706	ug/l	98
14) Allyl chloride	4.54	41	202745	19.528	ug/l #	27
16) Acetone	3.82	43	8225	4.266	ug/l	99
20) Methylene Chloride	4.54	84	4382326	646.602	ug/l	97
25) 2-Butanone	6.85	43	4898	1.702	ug/l	94
29) Tetrahydrofuran	7.22	42	378	0.200	ug/l #	60
30) Chloroform	7.37	83	5913	0.536	ug/l	90
31) Cyclohexane	7.66	56	12041	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	38856	4.781	ug/l #	49
38) Carbon Tetrachloride	7.66	117	49966	6.463	ug/l #	17
43) Isopropyl Acetate	8.17	43	14920	1.464	ug/l	97
47) Bromodichloromethane	9.41	83	1884	0.235	ug/l #	97
48) Methyl methacrylate	9.18	41	8353	1.653	ug/l #	17
49) 1,4-Dioxane	9.28	88	66	1.394	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	4091	0.695	ug/l	94
54) cis-1,3-Dichloropropene	9.90	75	49255	5.665	ug/l #	70
57) 1,3-Dichloropropane	10.76	76	8938	0.971	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.89	63	114	10.775	ug/l #	50
59) 2-Hexanone	10.76	43	155215	41.961	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	154544	35.609	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3495	0.202	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	154544	142.397	ug/l #	2
84) 1,2,4-Trimethylbenzene	13.04	105	6005	0.367	ug/l	90
93) 1,2,4-Trichlorobenzene	14.91	180	512	2.808	ug/l	93
95) Naphthalene	15.13	128	9643	4.125	ug/l #	91

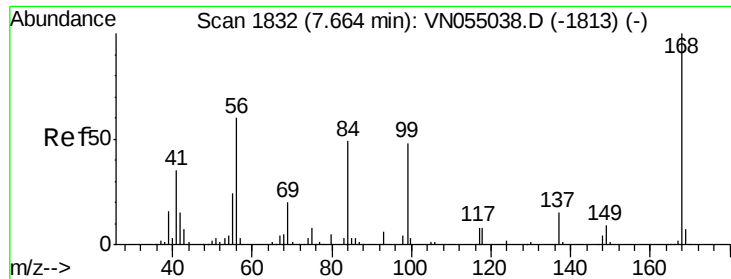
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Apr 15 12:28:28 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: VN055053.D

Acq: 15 Apr 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

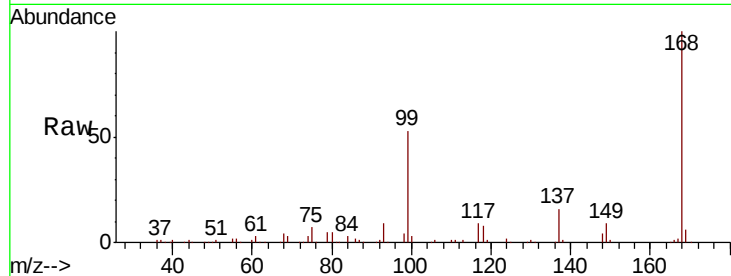
TP-1-S

Tot Ion:168 Resp: 534387

Ion Ratio Lower Upper

168 100

99 53.2 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

200000

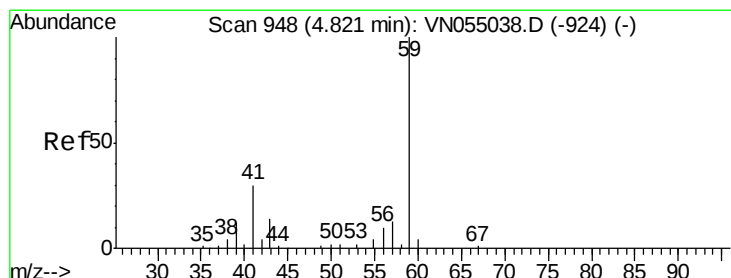
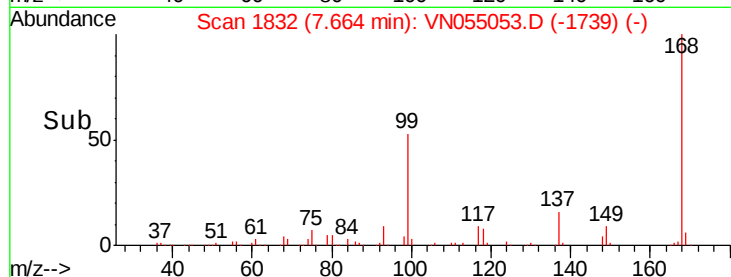
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.534 ug/l

RT: 4.81 min Scan# 944

Delta R.T. -0.01 min

Lab File: VN055053.D

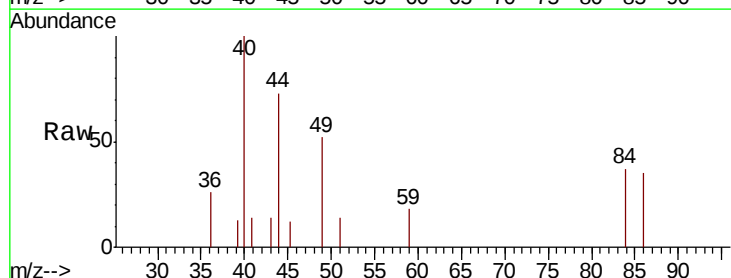
Acq: 15 Apr 2019 20:01

Tgt Ion: 59 Resp: 208

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.81

250

200

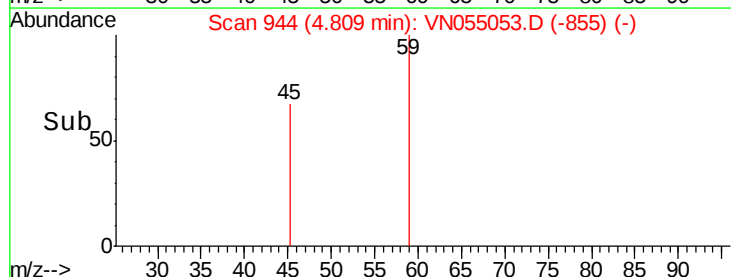
150

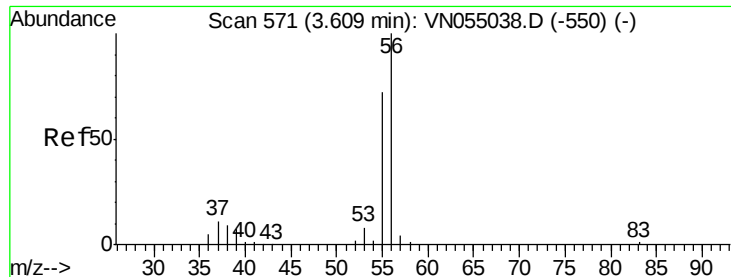
100

50

0

Time-->





#13

Acrolein

Concen: 0.706 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN055053.D

Acq: 15 Apr 2019 20:01

Instrument :

MSVOA_N

ClientSampled :

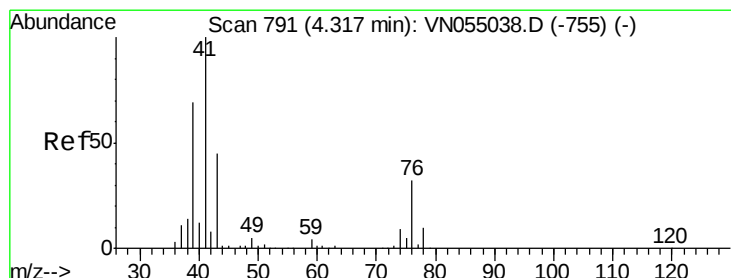
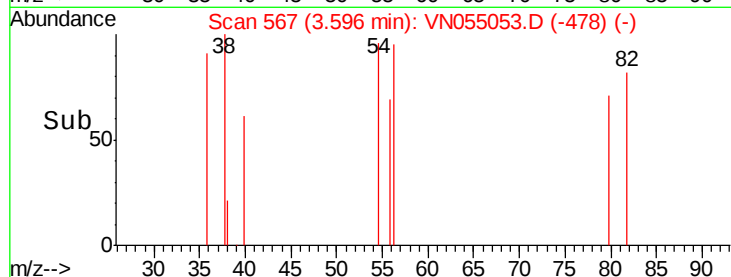
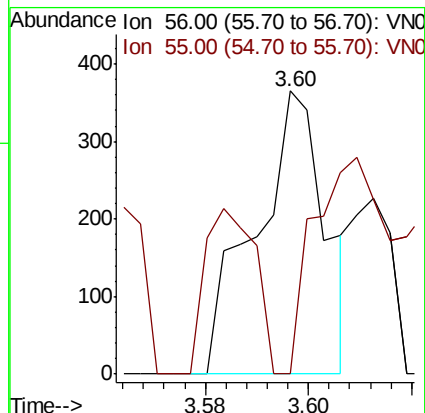
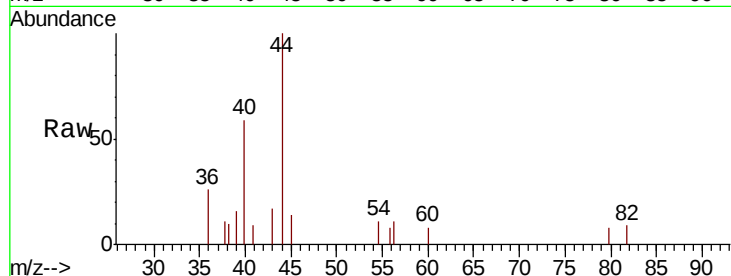
TP-1-S

Tot Ion: 56 Resp: 340

Ion Ratio Lower Upper

56 100

55 76.2 59.5 89.3



#14

Allyl chloride

Concen: 19.528 ug/l

RT: 4.54 min Scan# 861

Delta R.T. 0.23 min

Lab File: VN055053.D

Acq: 15 Apr 2019 20:01

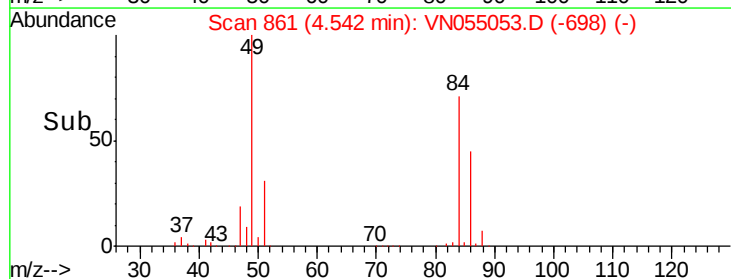
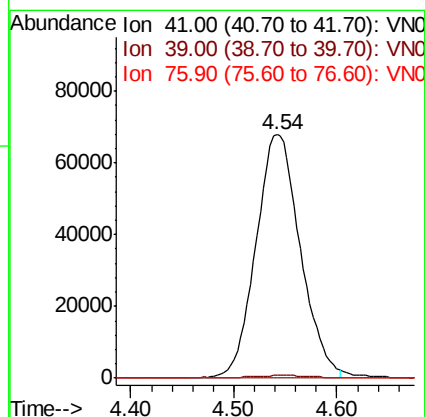
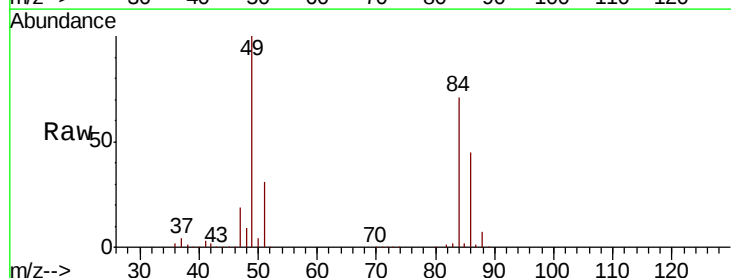
Tgt Ion: 41 Resp: 202745

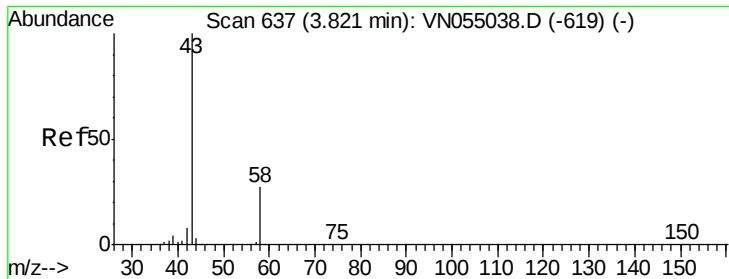
Ion Ratio Lower Upper

41 100

39 1.5 52.7 79.1#

76 0.0 23.2 34.8#





#16

Acetone

Concen: 4.266 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.01 min

Lab File: VN055053.D

Acq: 15 Apr 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

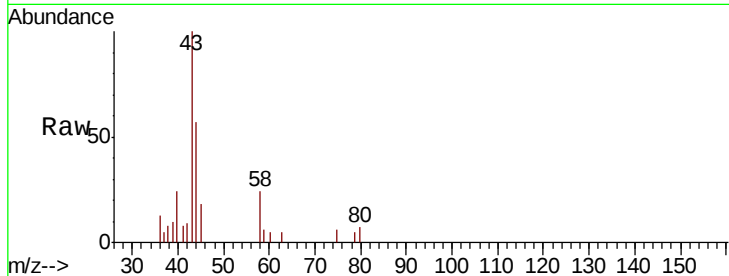
TP-1-S

Tot Ion: 43 Resp: 8225

Ion Ratio Lower Upper

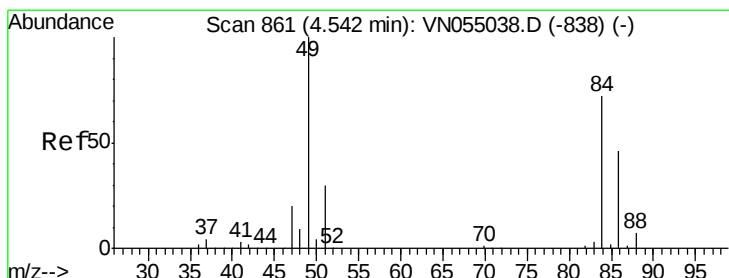
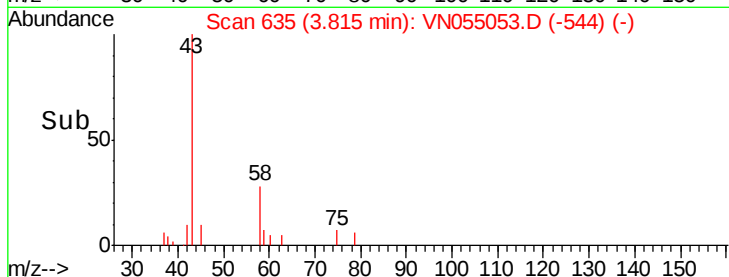
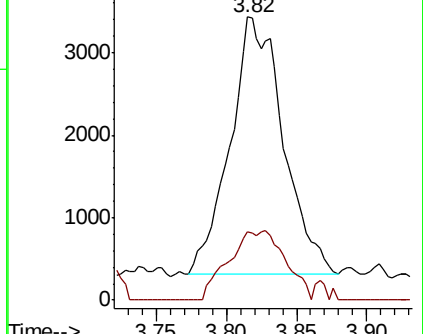
43 100

58 26.8 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#20

Methylene Chloride

Concen: 646.602 ug/l

RT: 4.54 min Scan# 861

Delta R.T. 0.00 min

Lab File: VN055053.D

Acq: 15 Apr 2019 20:01

Tgt Ion: 84 Resp: 4382326

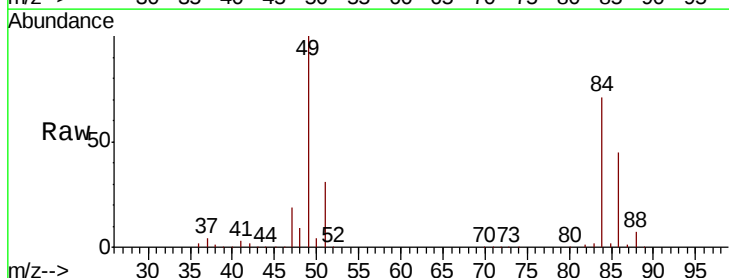
Ion Ratio Lower Upper

84 100

49 141.0 109.4 164.2

51 43.1 32.2 48.4

86 63.6 49.3 73.9

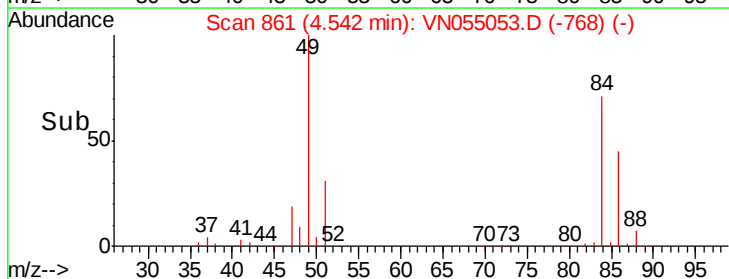
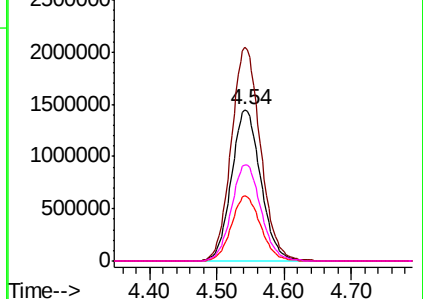


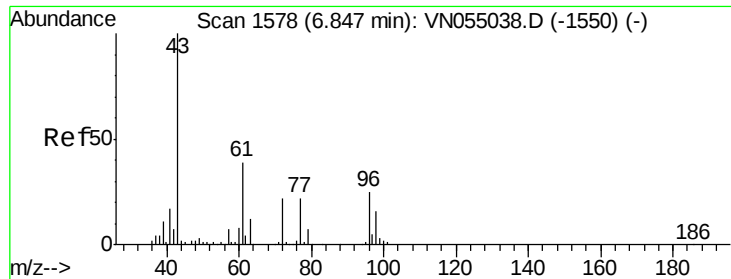
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

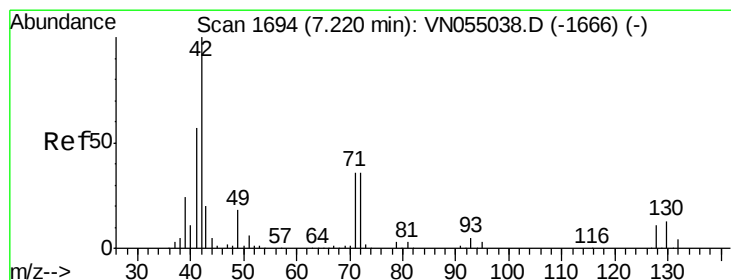
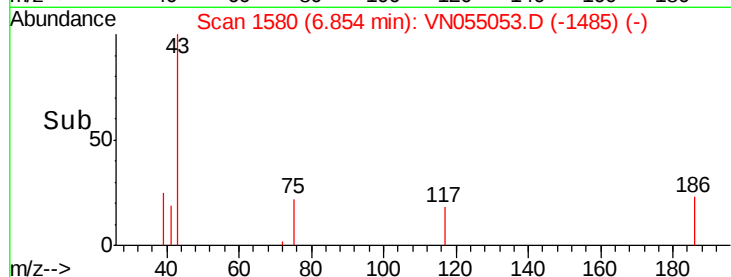
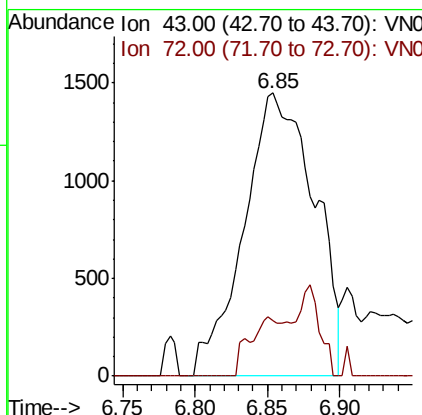
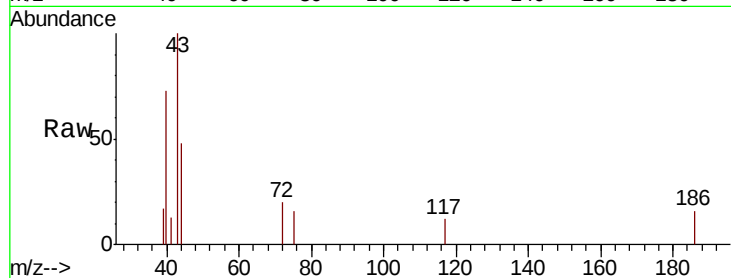




#25
2-Butanone
Concen: 1.702 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN055053.D
Acq: 15 Apr 2019 20:01

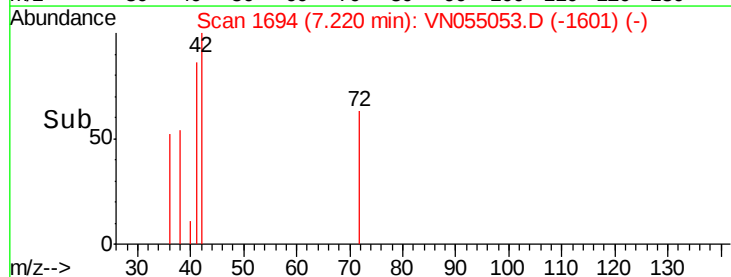
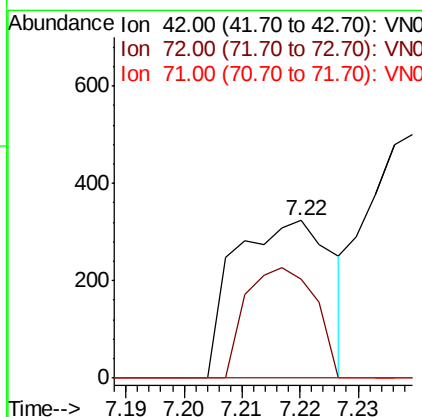
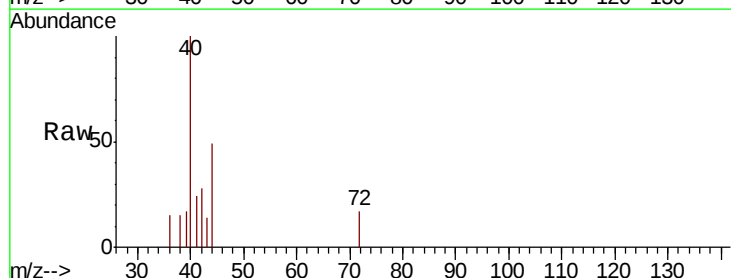
Instrument :
MSVOA_N
ClientSampled :
TP-1-S

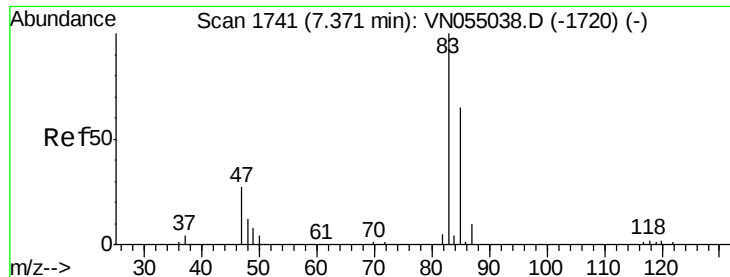
Tot Ion: 43 Resp: 4898
Ion Ratio Lower Upper
43 100
72 19.8 18.1 27.1



#29
Tetrahydrofuran
Concen: 0.200 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VN055053.D
Acq: 15 Apr 2019 20:01

Tgt Ion: 42 Resp: 378
Ion Ratio Lower Upper
42 100
72 49.5 29.4 44.0#
71 0.0 27.8 41.6#

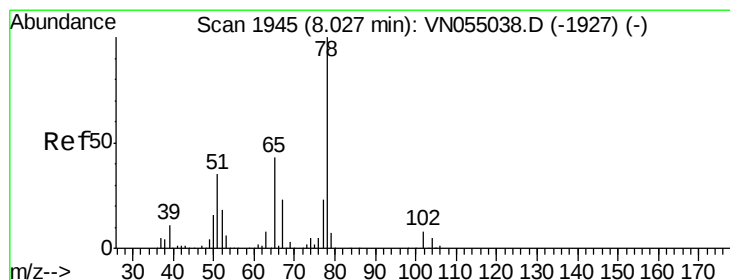
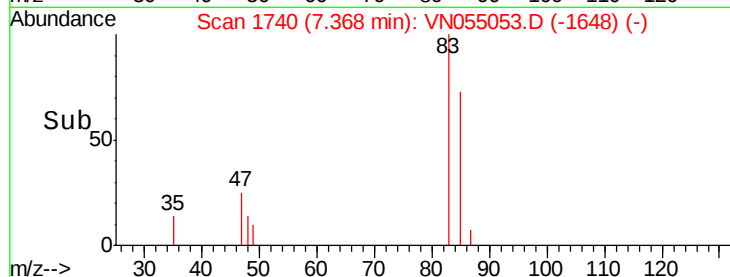
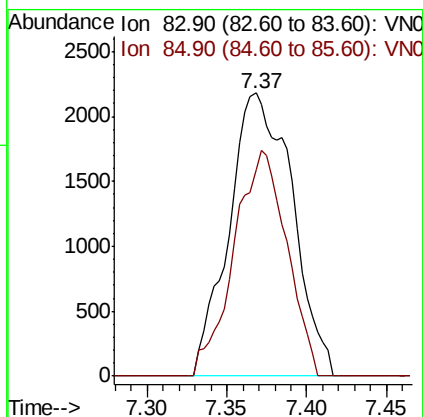
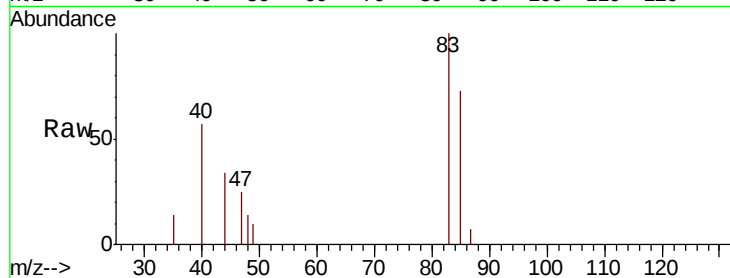




#30
 Chloroform
 Concen: 0.536 ug/l
 RT: 7.37 min Scan# 1740
 Delta R.T. -0.00 min
 Lab File: VN055053.D
 Acq: 15 Apr 2019 20:01

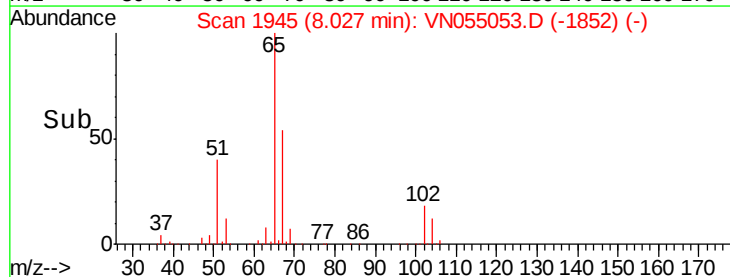
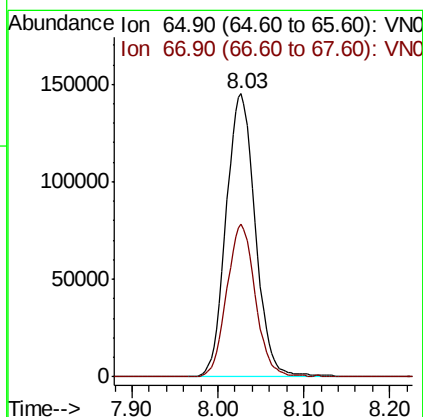
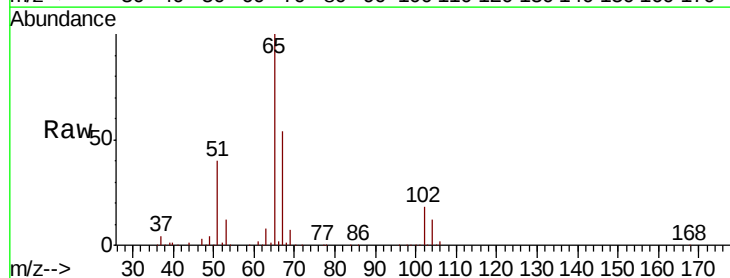
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 TP-1-S

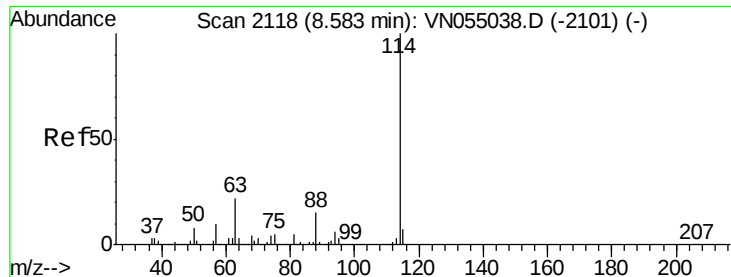
Tot Ion: 83 Resp: 5913
 Ion Ratio Lower Upper
 83 100
 85 72.9 51.8 77.6



#33
 1,2-Dichloroethane-d4
 Concen: 48.158 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055053.D
 Acq: 15 Apr 2019 20:01

Tgt Ion: 65 Resp: 342082
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 106.4

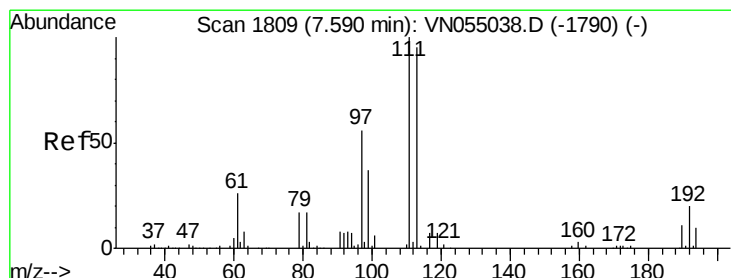
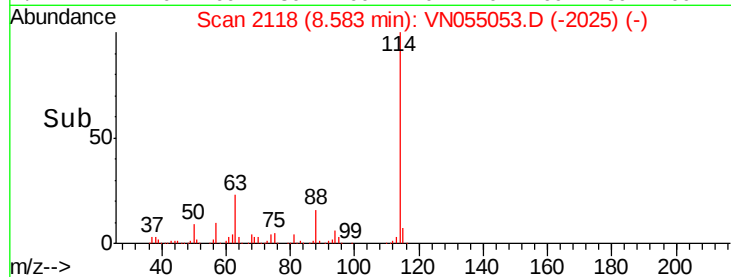
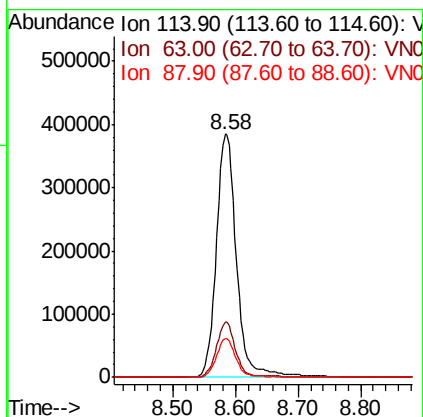
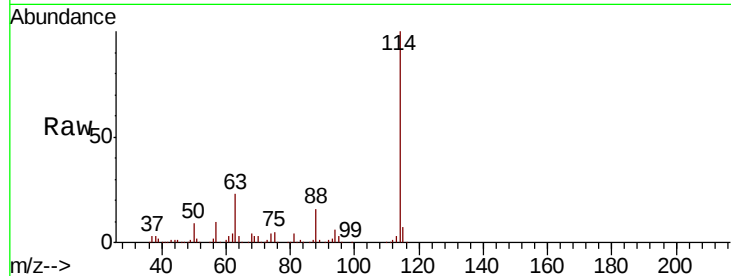




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055053.D
 Acq: 15 Apr 2019 20:01

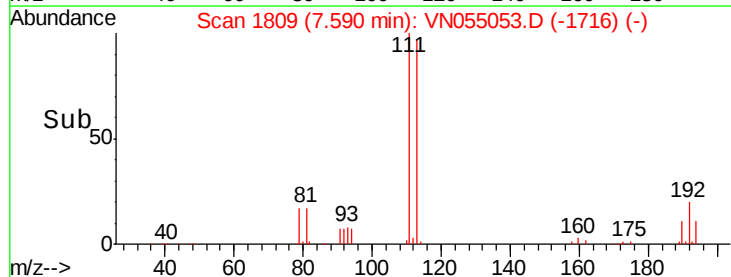
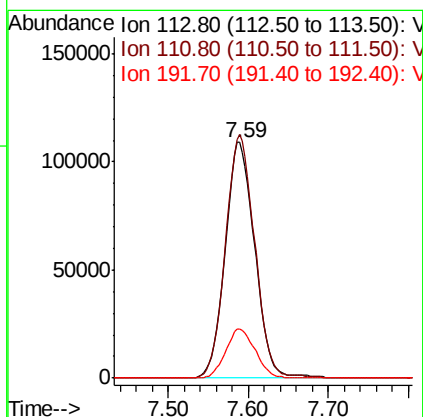
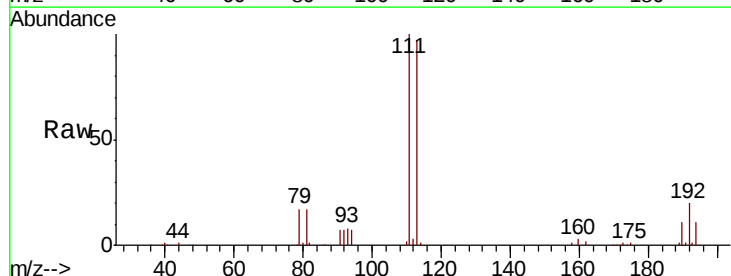
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 ClientSampled :
 TP-1-S

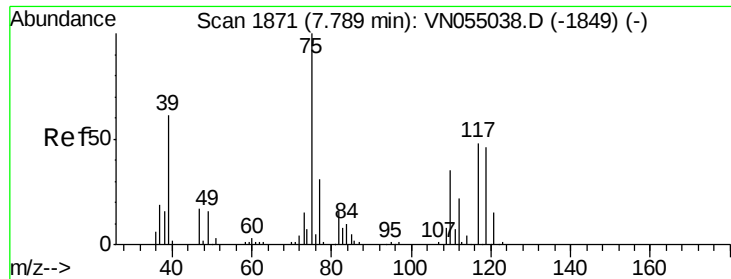
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	45.2
88	16.1	0.0	31.8



#35
 Dibromofluoromethane
 Concen: 47.833 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055053.D
 Acq: 15 Apr 2019 20:01

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.1	123.1
192	20.9	16.5	24.7

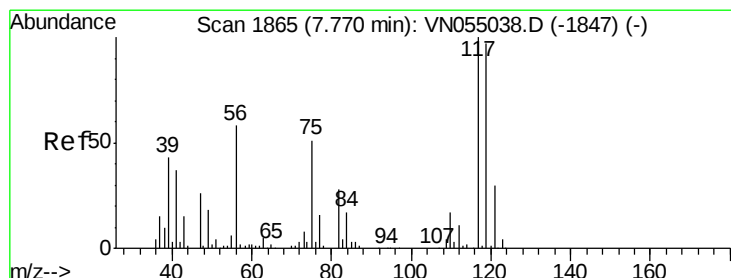
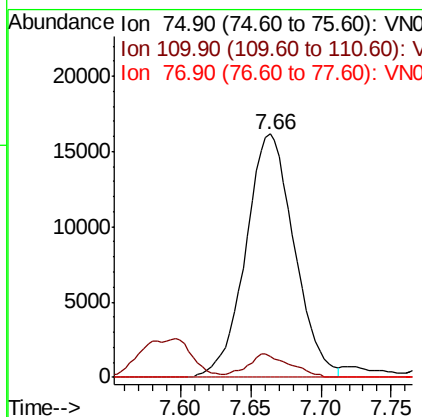
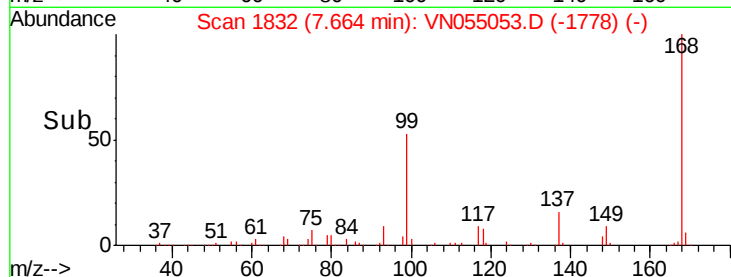
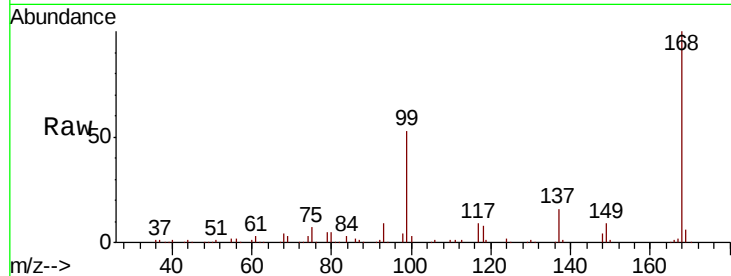




#36
 1,1-Dichloropropene
 Concen: 4.781 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055053.D
 Acq: 15 Apr 2019 20:01

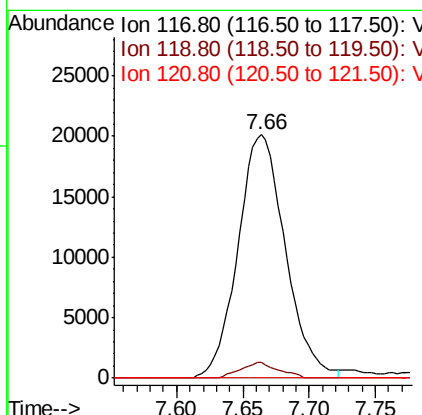
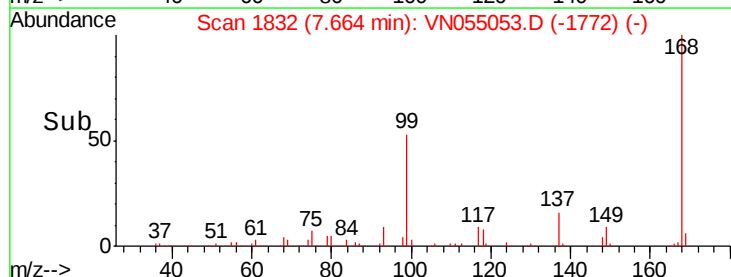
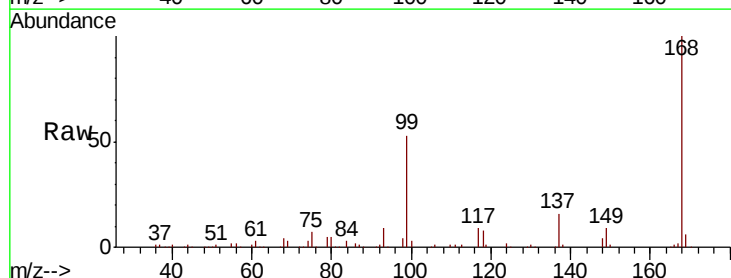
Instrument :
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 ClientSampled :
 TP-1-S

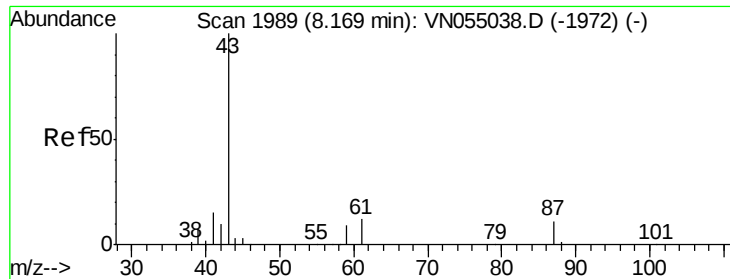
Tot Ion: 75 Resp: 38856
 Ion Ratio Lower Upper
 75 100
 110 8.5 17.5 52.5#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.463 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN055053.D
 Acq: 15 Apr 2019 20:01

Tgt Ion: 117 Resp: 49966
 Ion Ratio Lower Upper
 117 100
 119 6.5 76.3 114.5#
 121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 1.464 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN055053.D

Acq: 15 Apr 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

TP-1-S

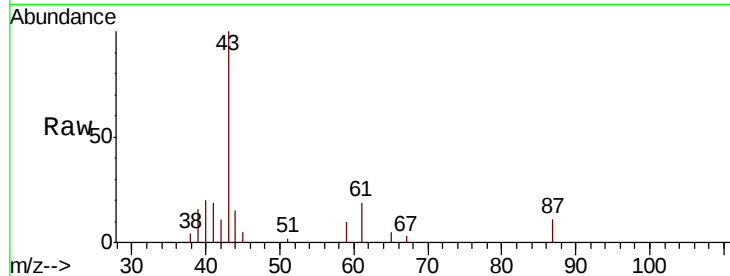
Tot Ion: 43 Resp: 14920

Ion Ratio Lower Upper

43 100

61 18.3 14.3 21.5

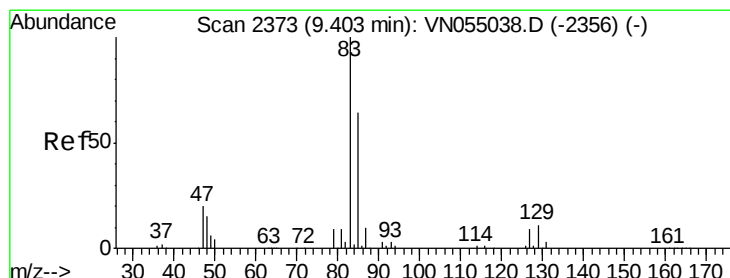
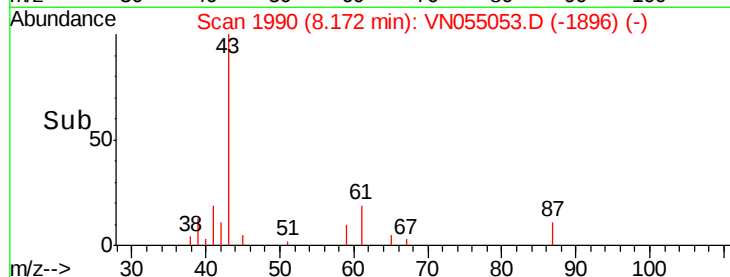
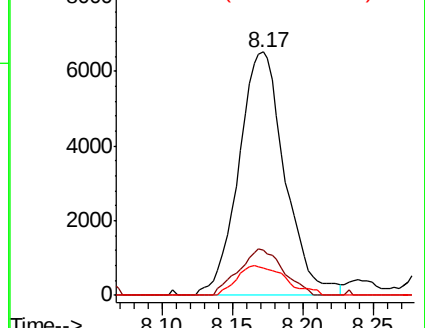
87 12.9 8.6 13.0



Abundance Ion 43.00 (42.70 to 43.70): VN055053.D (-1990) (-)

Ion 61.00 (60.70 to 61.70): VN055053.D (-1990) (-)

Ion 87.00 (86.70 to 87.70): VN055053.D (-1990) (-)



#47

Bromodichloromethane

Concen: 0.235 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN055053.D

Acq: 15 Apr 2019 20:01

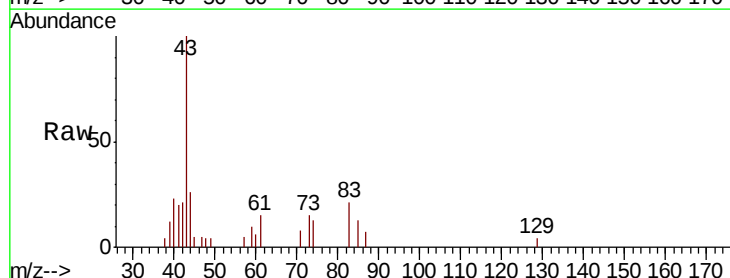
Tgt Ion: 83 Resp: 1884

Ion Ratio Lower Upper

83 100

85 63.8 51.2 76.8

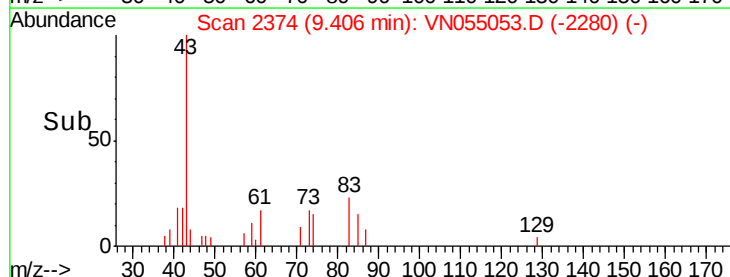
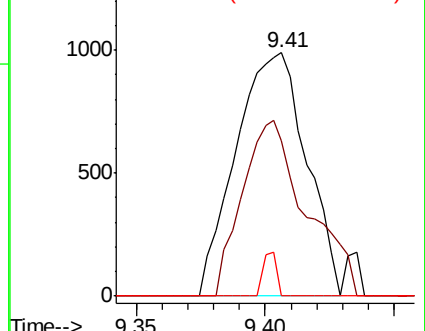
127 0.0 6.8 10.2#

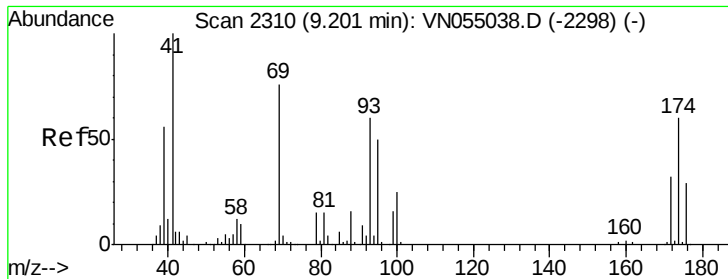


Abundance Ion 82.90 (82.60 to 83.60): VN055053.D (-2374) (-)

Ion 84.90 (84.60 to 85.60): VN055053.D (-2374) (-)

Ion 126.80 (126.50 to 127.50): VN055053.D (-2374) (-)





#48

Methvl methacrylate

Concen: 1.653 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN055053.D

Acq: 15 Apr 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

TP-1-S

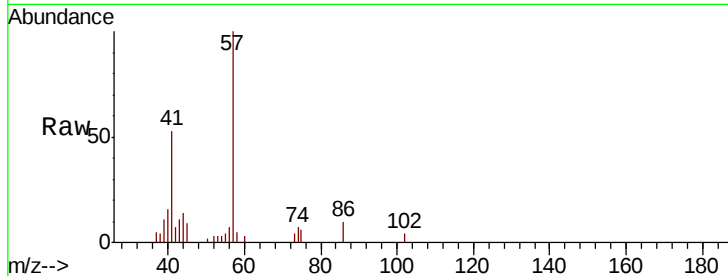
Tot Ion: 41 Resp: 8353

Ion Ratio Lower Upper

41 100

69 0.0 60.5 90.7#

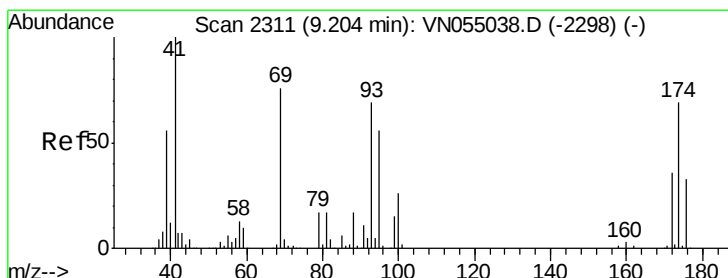
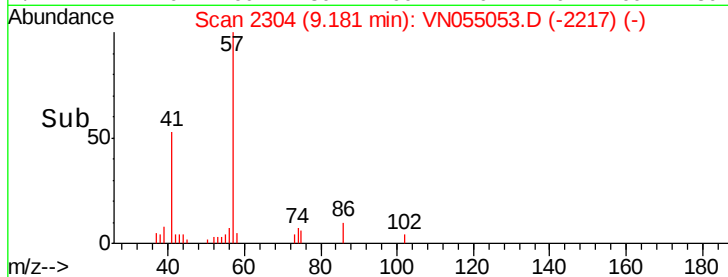
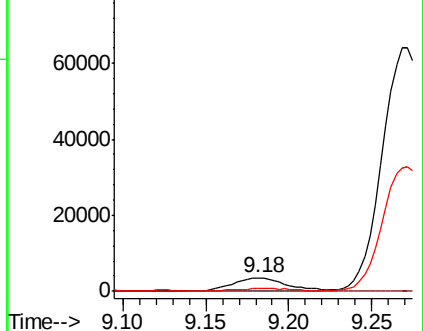
39 0.0 43.9 65.9#



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: 1.394 ug/l

RT: 9.28 min Scan# 2335

Delta R.T. 0.08 min

Lab File: VN055053.D

Acq: 15 Apr 2019 20:01

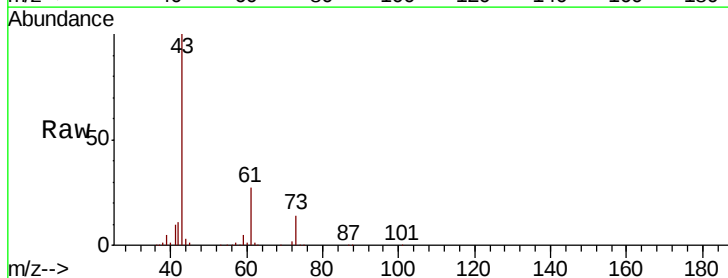
Tgt Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 1977353.0 31.8 47.8#

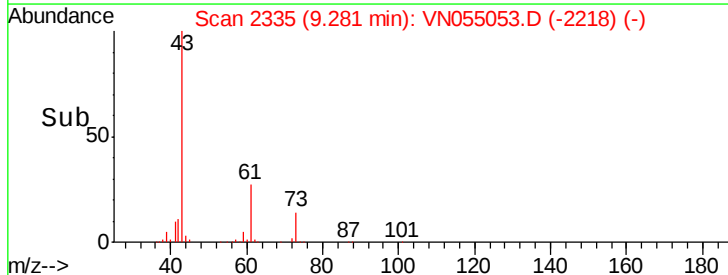
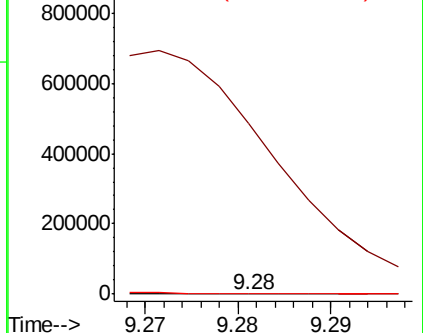
58 9460.6 61.6 92.4#

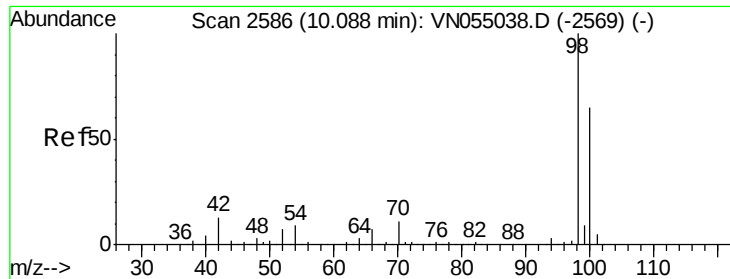


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 50.185 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055053.D

Acq: 15 Apr 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

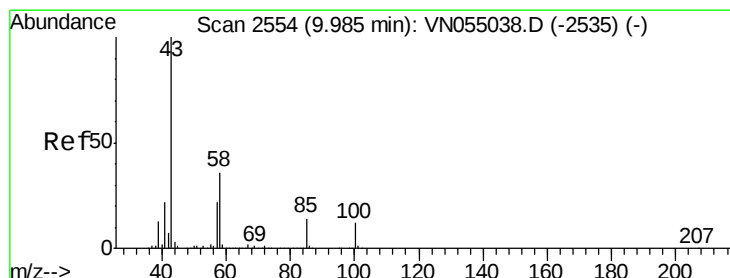
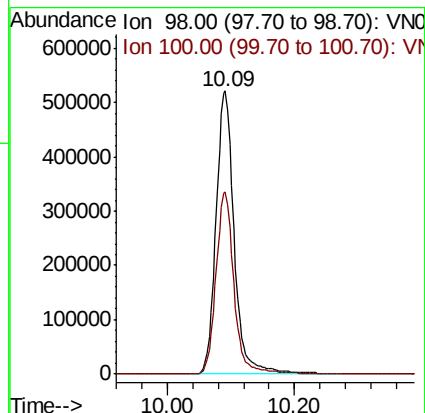
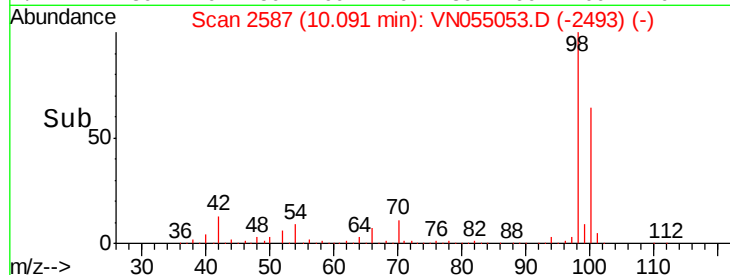
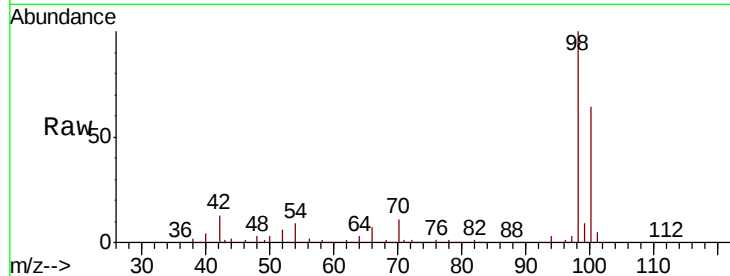
TP-1-S

Tot Ion: 98 Resp: 1034769

Ion Ratio Lower Upper

98 100

100 63.9 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.695 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055053.D

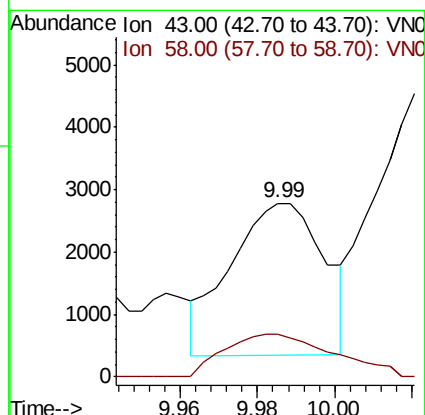
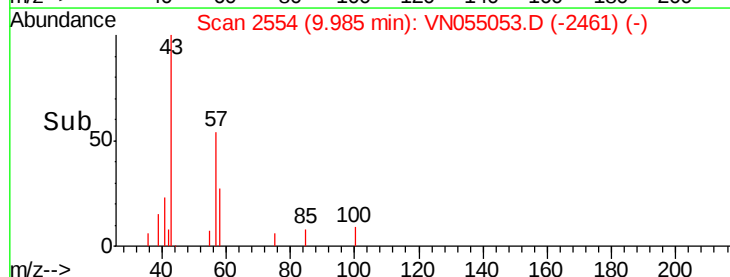
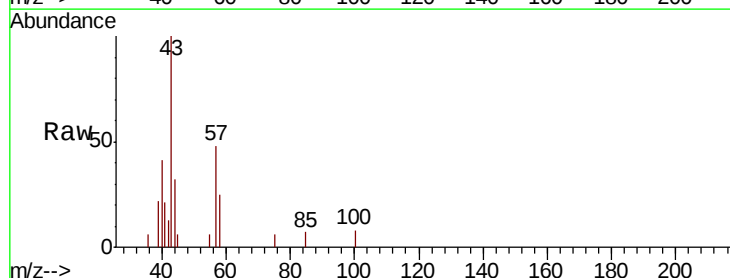
Acq: 15 Apr 2019 20:01

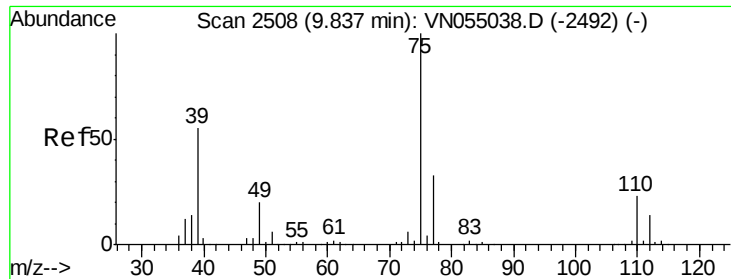
Tgt Ion: 43 Resp: 4091

Ion Ratio Lower Upper

43 100

58 32.6 29.0 43.4



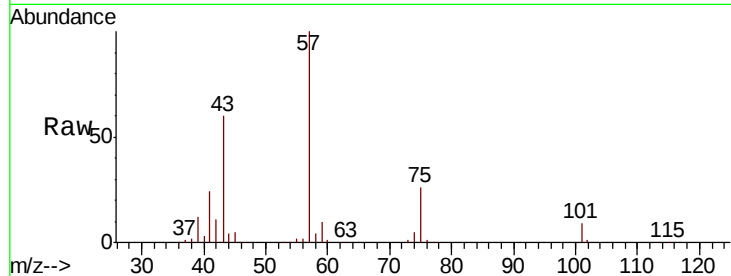


#54

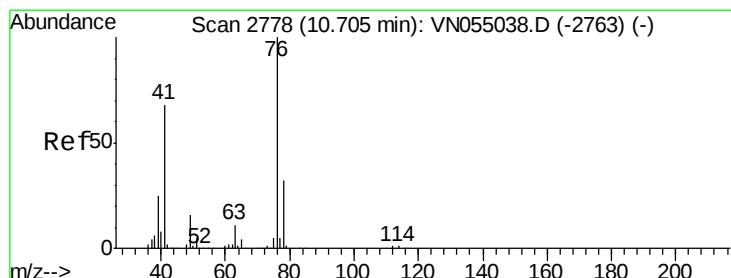
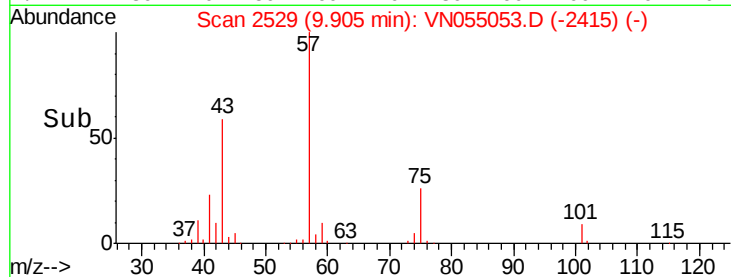
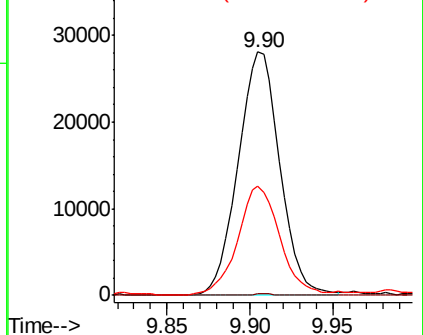
cis-1,3-Dichloropropene
 Concen: 5.665 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN055053.D
 Acq: 15 Apr 2019 20:01

Instrument :
 MSVOA_N
 ClientSampled :
 TP-1-S

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.6	25.8	38.6#
39	44.9	43.8	65.8



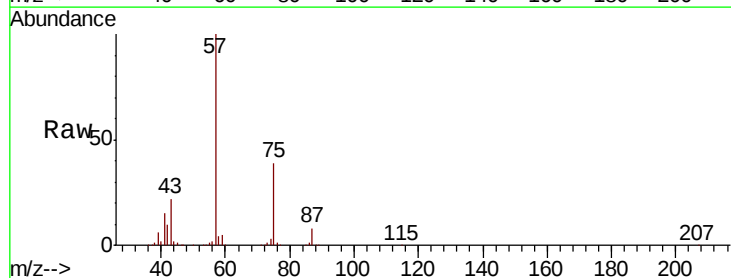
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



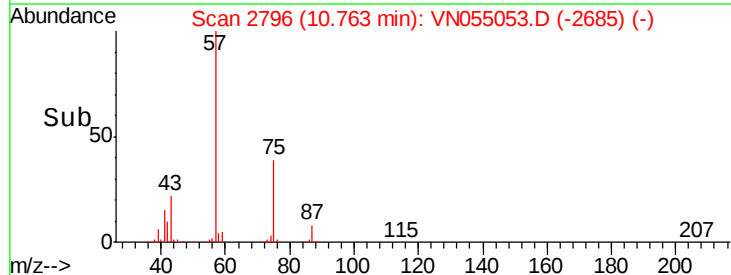
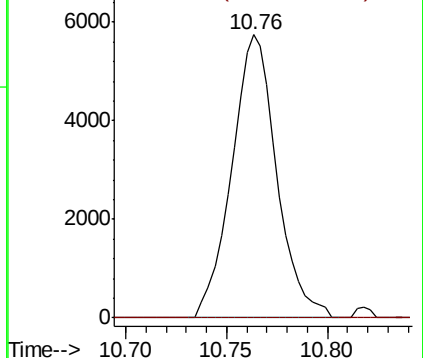
#57

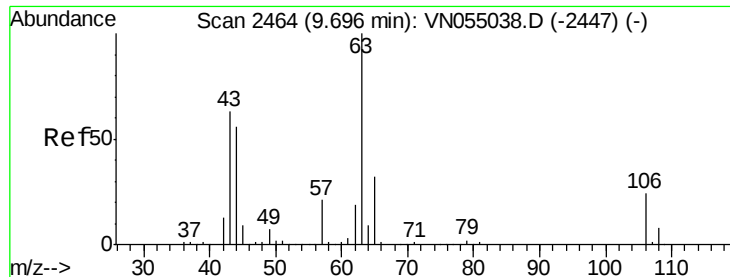
1,3-Dichloropropane
 Concen: 0.971 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN055053.D
 Acq: 15 Apr 2019 20:01

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



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

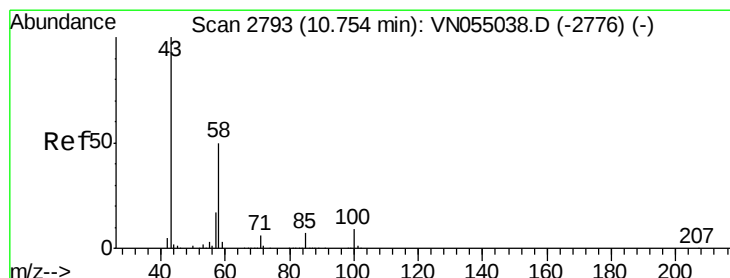
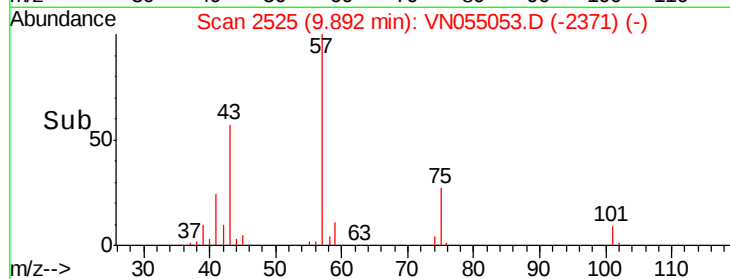
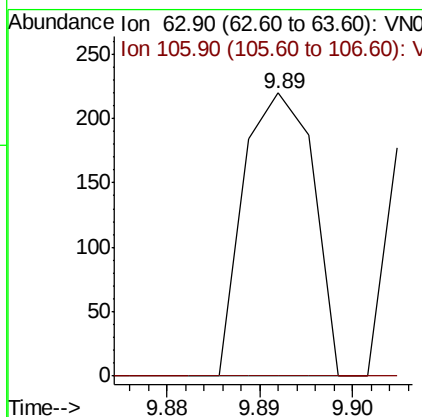
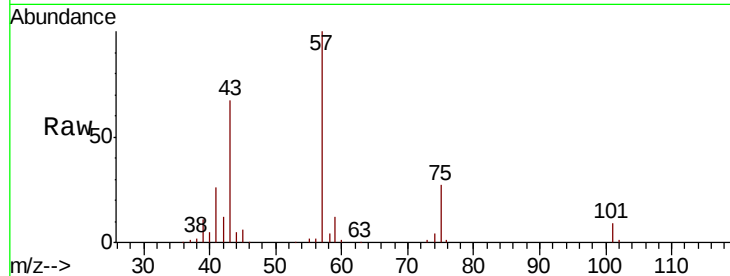




#58
 2-Chloroethyl Vinyl ether
 Concen: 10.775 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.20 min
 Lab File: VN055053.D
 Acq: 15 Apr 2019 20:01

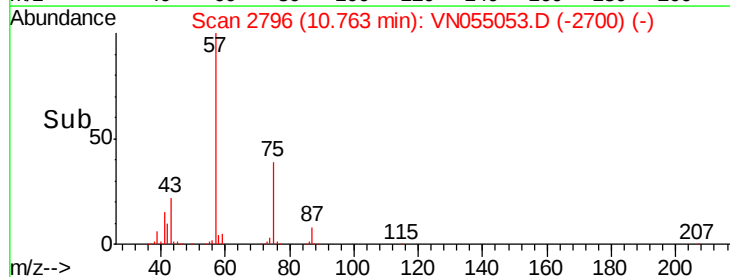
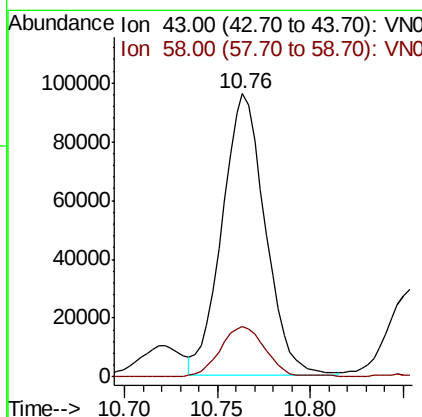
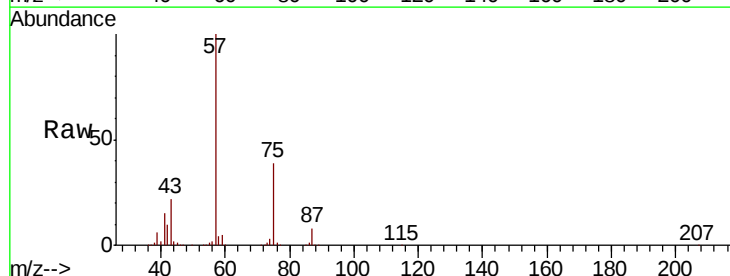
Instrument :
 MSVOA_N
 ClientSampled :
 TP-1-S

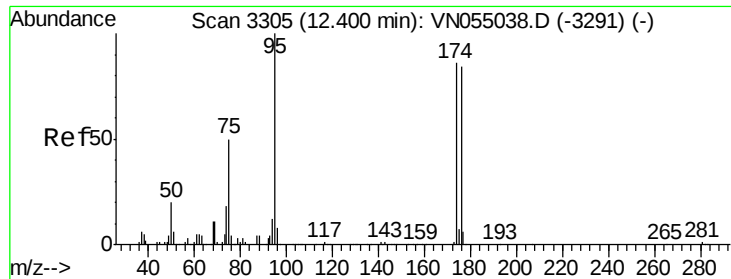
Tot Ion: 63 Resp: 114
 Ion Ratio Lower Upper
 63 100
 106 0.0 20.0 30.0#



#59
 2-Hexanone
 Concen: 41.961 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN055053.D
 Acq: 15 Apr 2019 20:01

Tgt Ion: 43 Resp: 155215
 Ion Ratio Lower Upper
 43 100
 58 18.8 25.1 75.2#

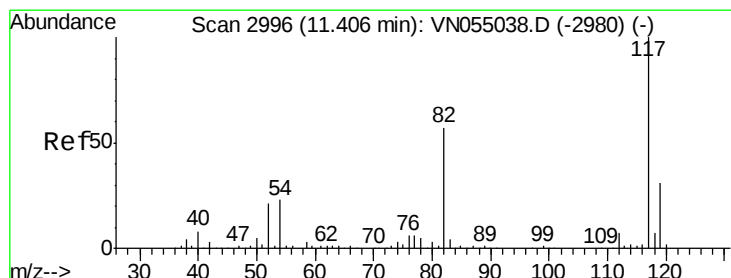
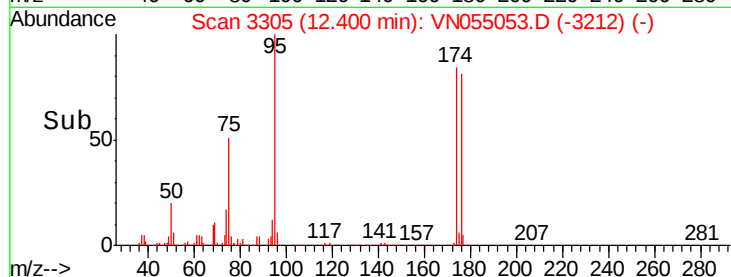
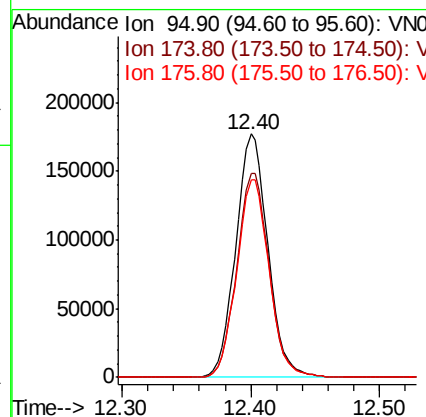
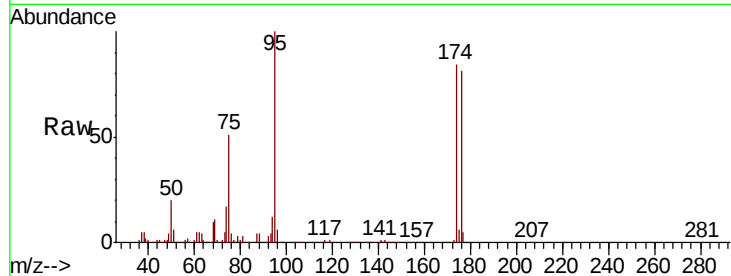




#62
4-Bromofluorobenzene
Concen: 45.642 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055053.D
Acq: 15 Apr 2019 20:01

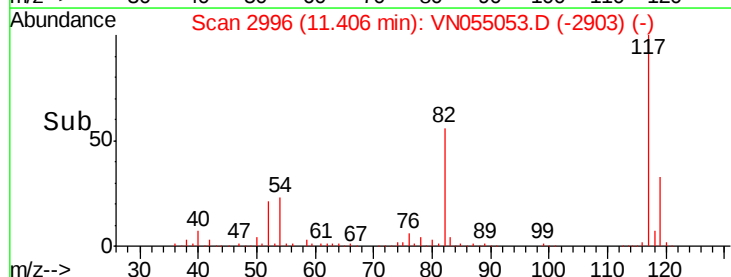
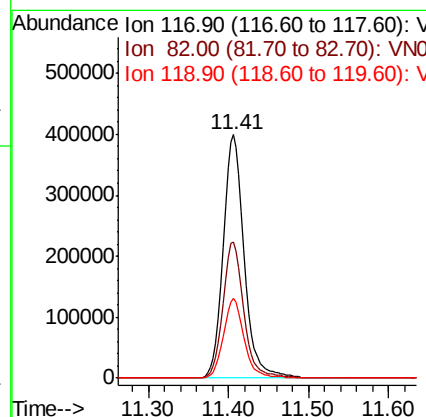
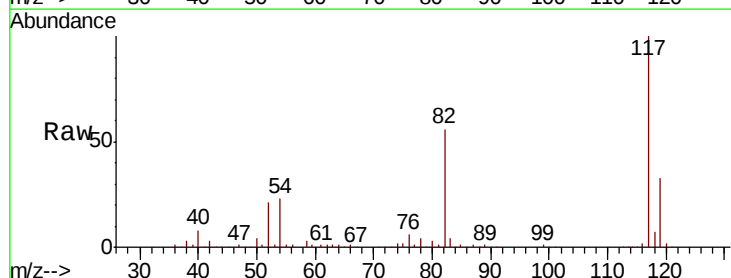
Instrument :
MSVOA_N
ClientSampleId :
TP-1-S

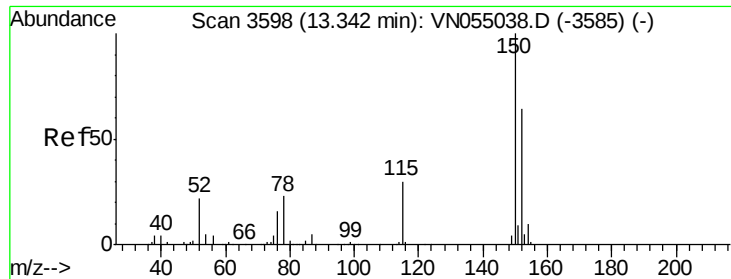
Tot Ion: 95 Resp: 305953
Ion Ratio Lower Upper
95 100
174 84.5 0.0 174.4
176 82.1 0.0 166.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055053.D
Acq: 15 Apr 2019 20:01

Tgt Ion: 117 Resp: 726759
Ion Ratio Lower Upper
117 100
82 56.0 44.6 66.8
119 32.5 25.5 38.3



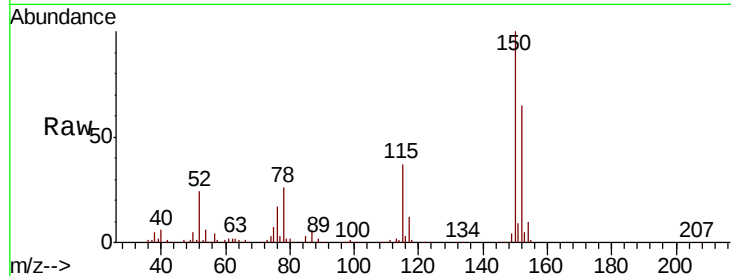


#72

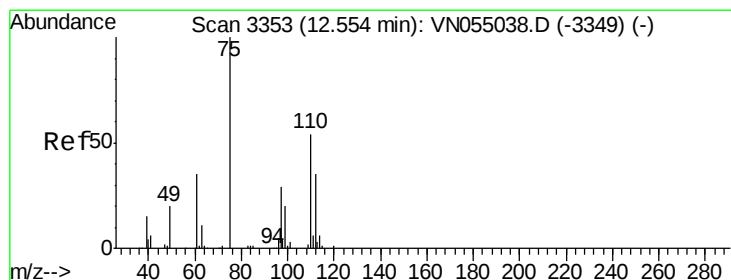
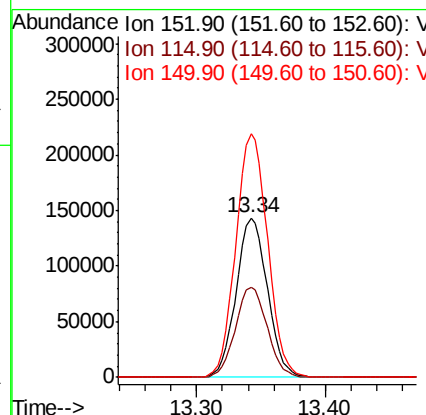
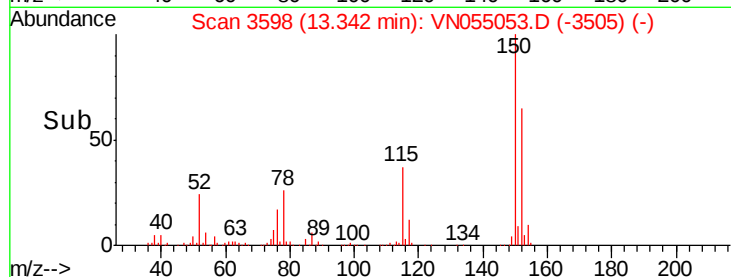
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055053.D
Acq: 15 Apr 2019 20:01

Instrument :
MSVOA_N
ClientSampleId :
TP-1-S

Tot Ion:152 Resp: 241346
Ion Ratio Lower Upper
152 100
115 57.5 28.5 85.6
150 154.9 0.0 347.2



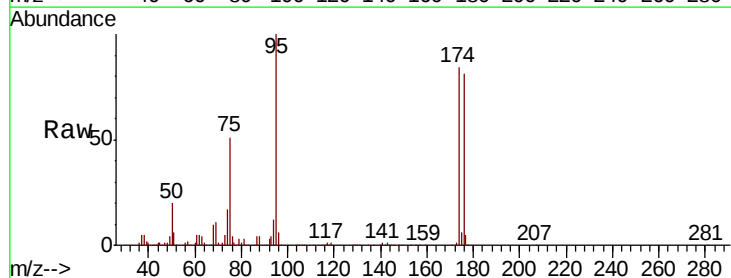
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



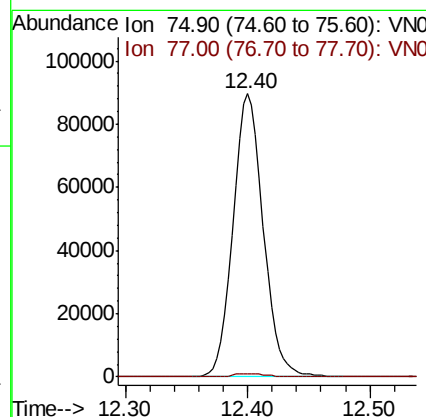
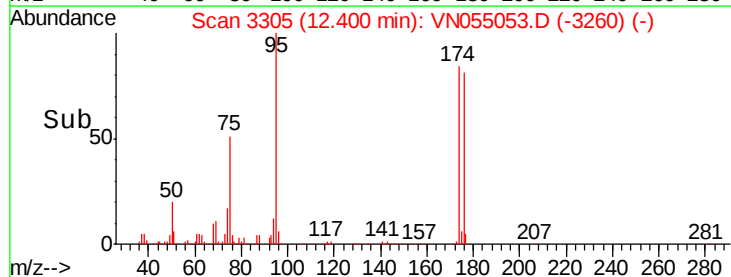
#76

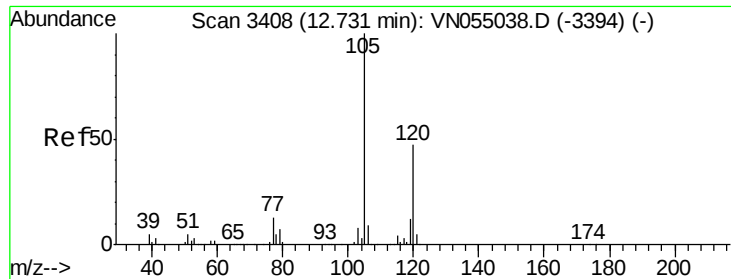
1,2,3-Trichloropropane
Concen: 35.609 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN055053.D
Acq: 15 Apr 2019 20:01

Tgt Ion: 75 Resp: 154544
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





#80

1,3,5-Trimethylbenzene

Concen: 0.202 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055053.D

Acq: 15 Apr 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

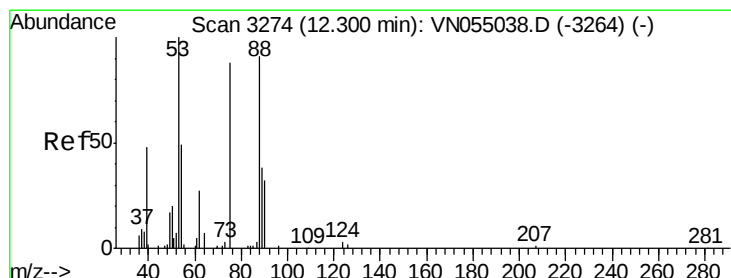
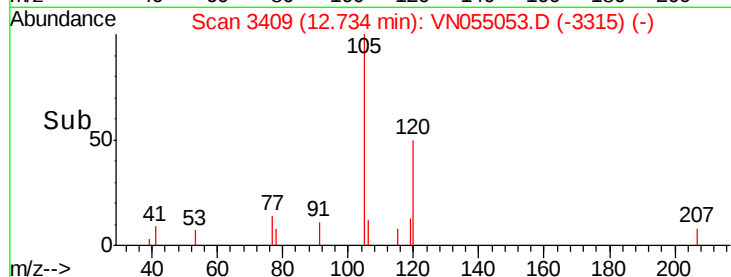
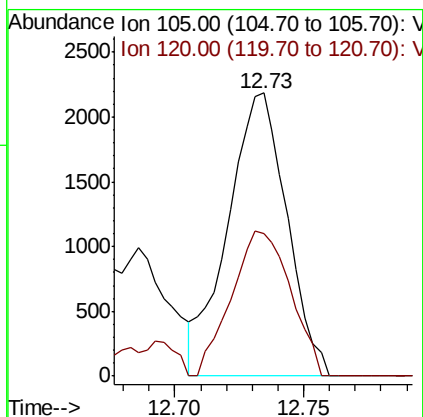
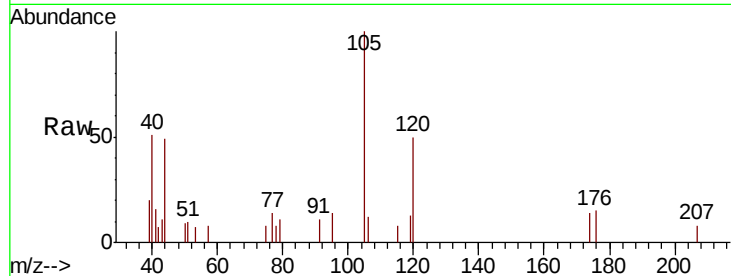
TP-1-S

Tot Ion:105 Resp: 3495

Ion Ratio Lower Upper

105 100

120 51.2 24.3 72.8



#81

trans-1,4-Dichloro-2-butene

Concen: 142.397 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055053.D

Acq: 15 Apr 2019 20:01

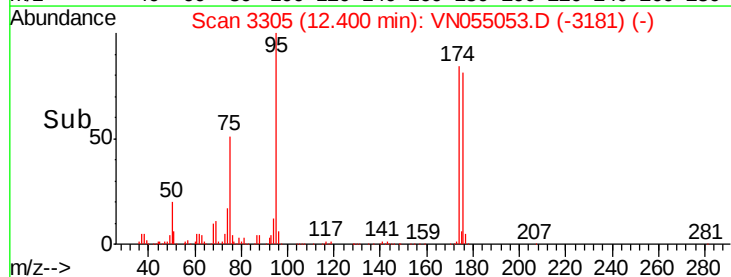
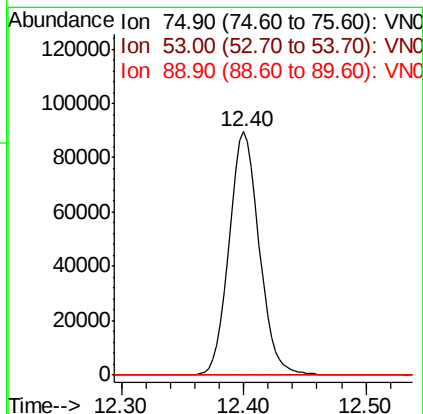
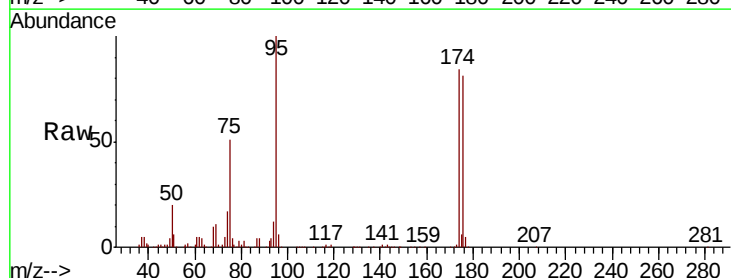
Tgt Ion: 75 Resp: 154544

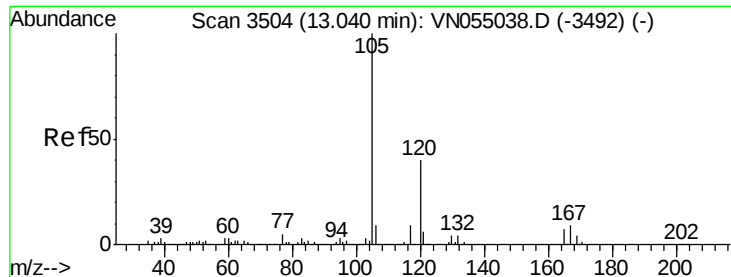
Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

89 0.0 38.6 57.8#





#84

1,2,4-Trimethylbenzene

Concen: 0.367 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN055053.D

Acq: 15 Apr 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

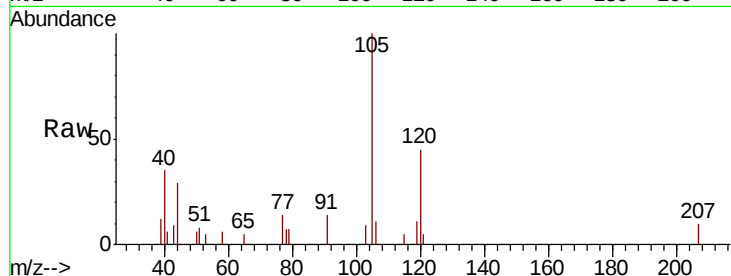
TP-1-S

Tot Ion:105 Resp: 6005

Ion Ratio Lower Upper

105 100

120 38.5 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.04

4000

3000

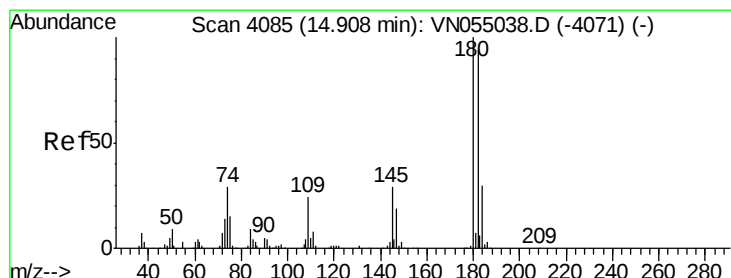
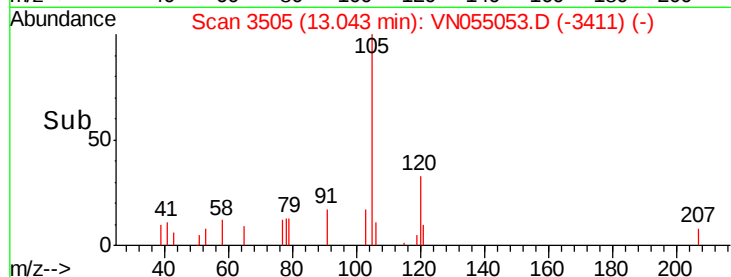
2000

1000

0

Time-->

13.00 13.05



#93

1,2,4-Trichlorobenzene

Concen: 2.808 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN055053.D

Acq: 15 Apr 2019 20:01

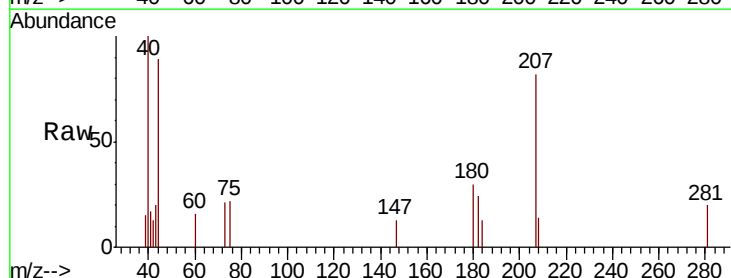
Tgt Ion:180 Resp: 512

Ion Ratio Lower Upper

180 100

182 103.9 47.5 142.6

145 28.3 14.2 42.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

500

400

300

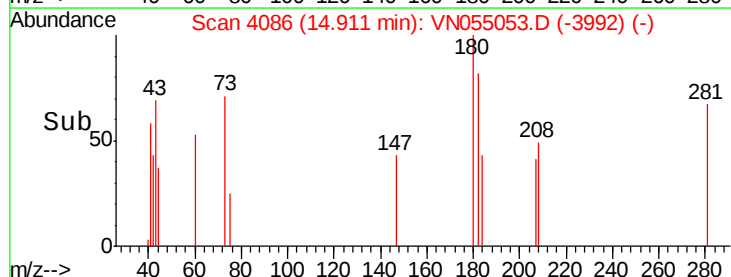
200

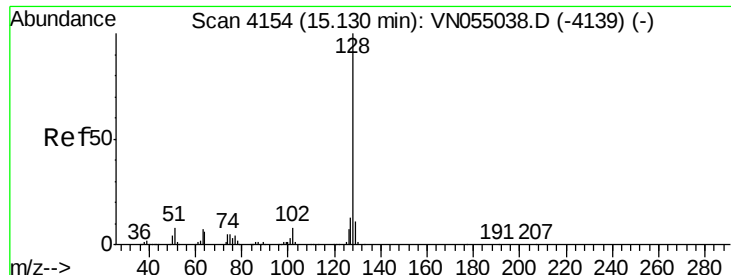
100

0

Time-->

14.88 14.90 14.92 14.94





#95

Naphthalene

Concen: 4.125 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055053.D

Acq: 15 Apr 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

TP-1-S

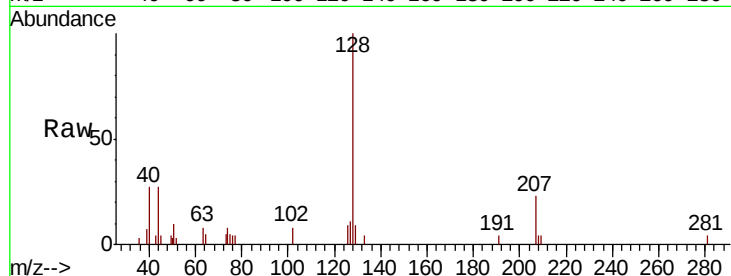
Tot Ion:128 Resp: 9643

Ion Ratio Lower Upper

128 100

127 10.9 10.1 15.1

129 5.4 8.8 13.2#



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

