

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021119\
 Data File : VN053705.D
 Acq On : 11 Feb 2019 15:26
 Operator : JC/SP
 Sample : K1442-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-11

Quant Time: Feb 11 22:09:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	757694	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1242117	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1138905	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	448891	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	402091	52.90	ug/l	0.00
Spiked Amount			Recovery	=	105.80%	
35) Dibromofluoromethane	7.59	113	393774	50.17	ug/l	0.00
Spiked Amount			Recovery	=	100.34%	
50) Toluene-d8	10.09	98	1522633	51.67	ug/l	0.00
Spiked Amount			Recovery	=	103.34%	
62) 4-Bromofluorobenzene	12.40	95	488126	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	

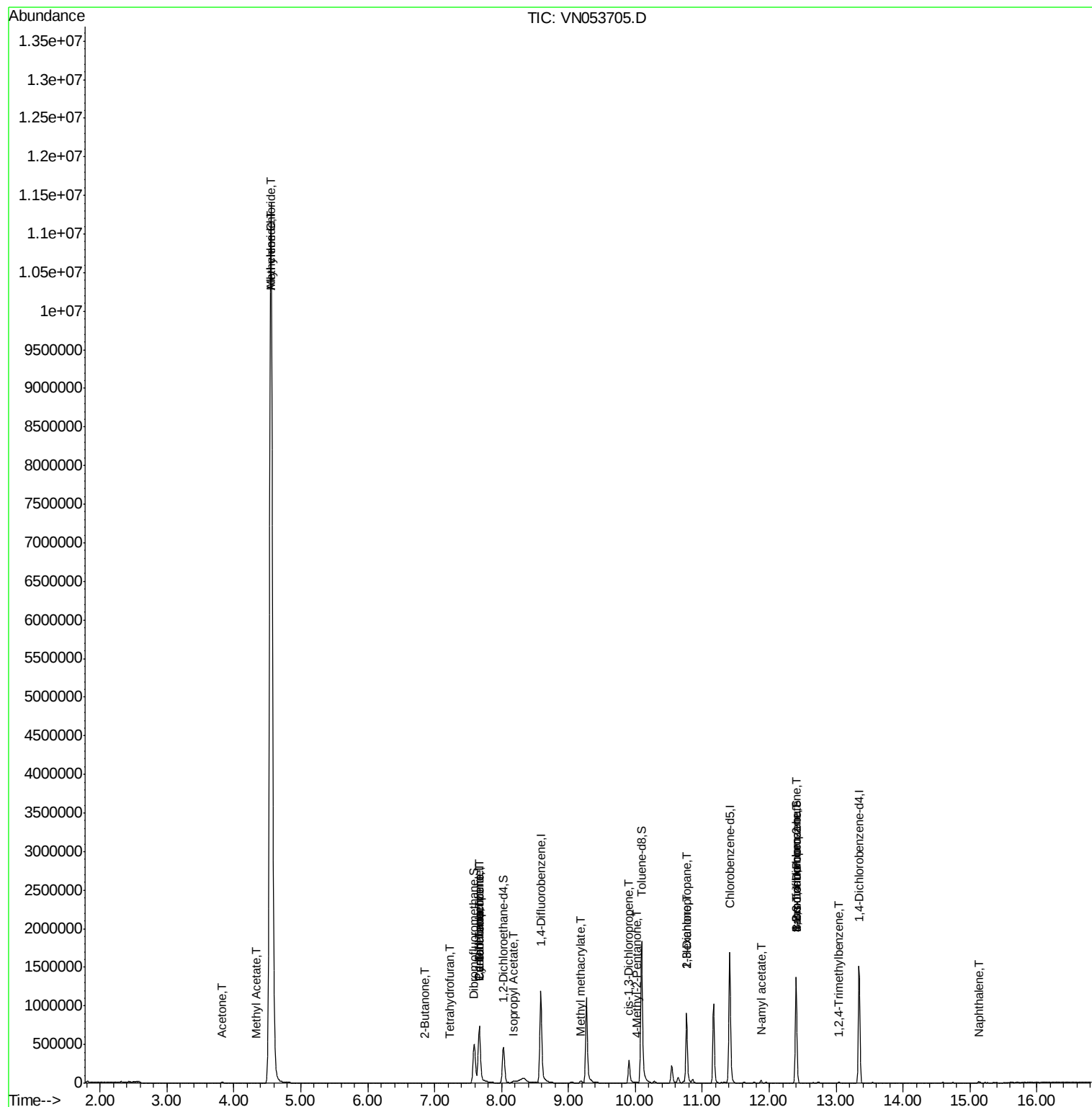
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.55	41	334223	29.917	ug/l #	27
16) Acetone	3.82	43	17089	8.765	ug/l	97
18) Methyl Acetate	4.34	43	3290	0.570	ug/l #	73
20) Methylene Chloride	4.55	84	9225964	1127.893	ug/l	99
25) 2-Butanone	6.84	43	1315	0.473	ug/l	97
29) Tetrahydrofuran	7.22	42	801	0.449	ug/l #	55
31) Cyclohexane	7.67	56	11363	0.717	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	44069	3.936	ug/l #	47
38) Carbon Tetrachloride	7.67	117	60850	5.395	ug/l #	16
43) Isopropyl Acetate	8.17	43	33923	2.809	ug/l #	74
48) Methyl methacrylate	9.18	41	9432	1.636	ug/l #	20
51) 4-Methyl-2-Pentanone	10.03	43	7402	1.247	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	63820	4.859	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	10554	0.836	ug/l #	43
59) 2-Hexanone	10.76	43	136563	33.896	ug/l #	50
71) Bromoform	12.40	173	3282	0.567	ug/l #	1
74) N-amyl acetate	11.88	43	10941	1.442	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	227458	39.450	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	227458	110.930	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	8354	0.313	ug/l	96
95) Naphthalene	15.13	128	12331	2.340	ug/l	99

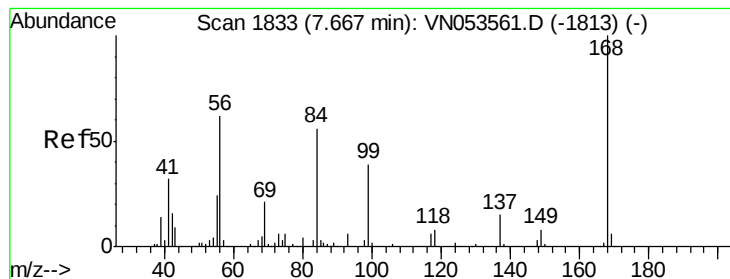
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053705.D

Acq: 11 Feb 2019 15:26

Instrument :

MSVOA_N

ClientSampleId :

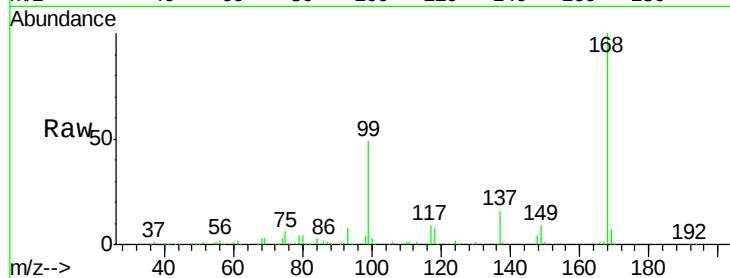
COMP-11

Tot Ion:168 Resp: 757694

Ion Ratio Lower Upper

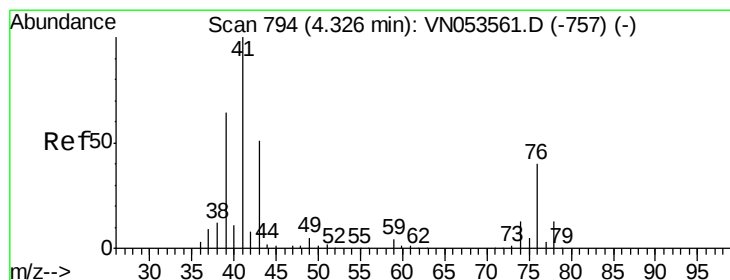
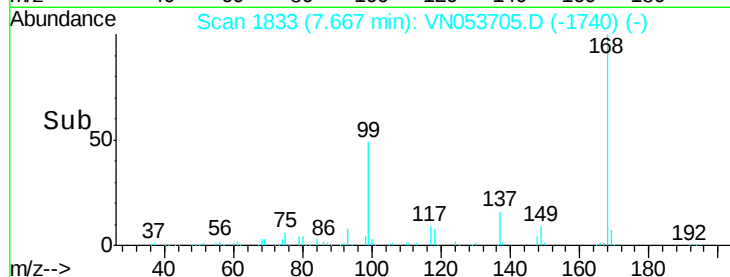
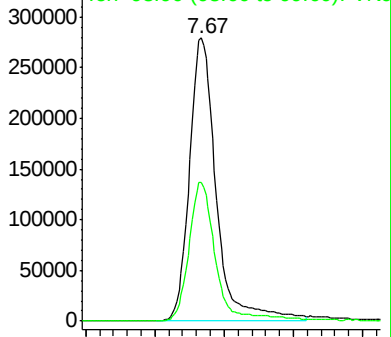
168 100

99 48.9 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#14

Allyl chloride

Concen: 29.917 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.23 min

Lab File: VN053705.D

Acq: 11 Feb 2019 15:26

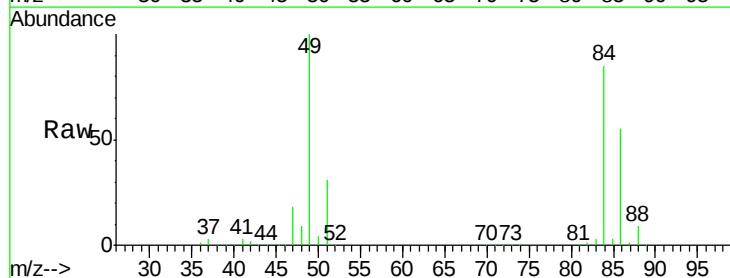
Tgt Ion: 41 Resp: 334223

Ion Ratio Lower Upper

41 100

39 0.7 48.9 73.3#

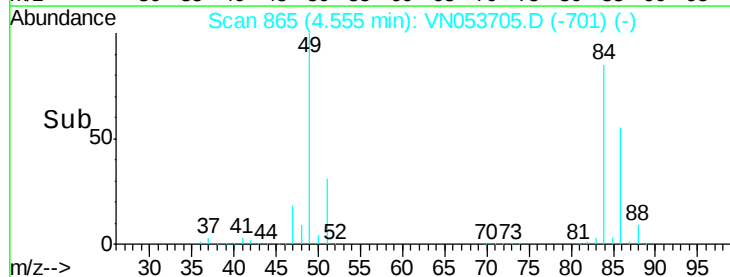
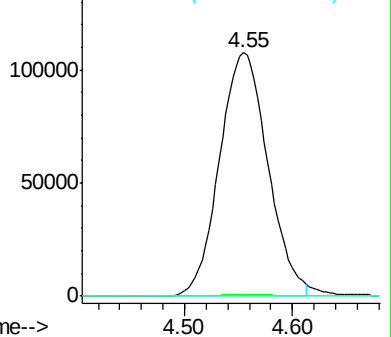
76 0.0 29.4 44.2#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#16

Acetone

Concen: 8.765 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053705.D

Acq: 11 Feb 2019 15:26

Instrument :

MSVOA_N

ClientSampleId :

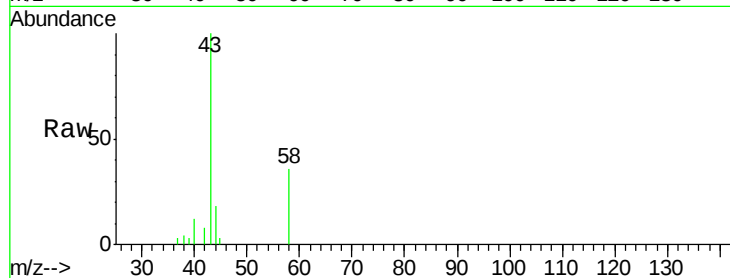
COMP-11

Tot Ion: 43 Resp: 17089

Ion Ratio Lower Upper

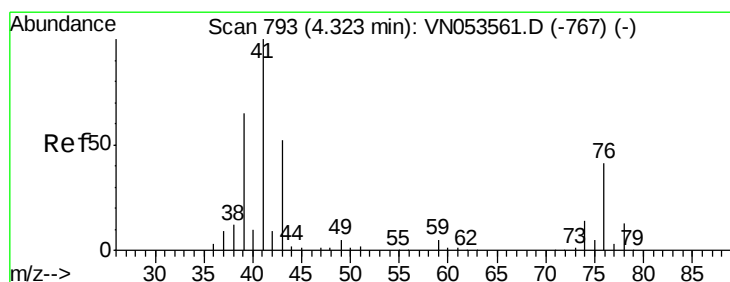
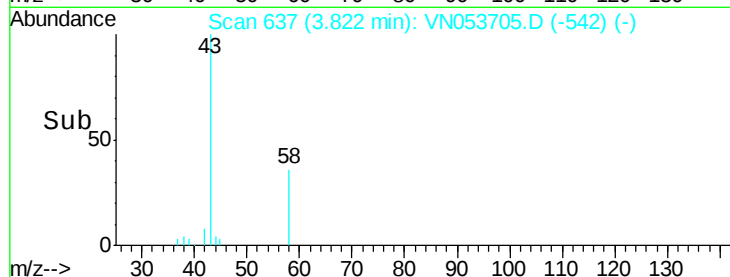
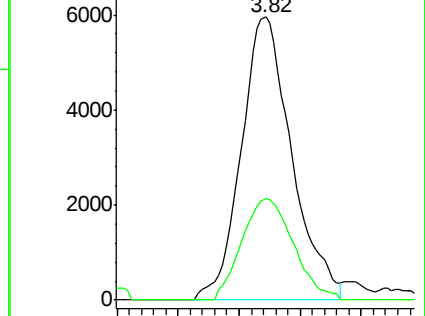
43 100

58 35.8 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.570 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.02 min

Lab File: VN053705.D

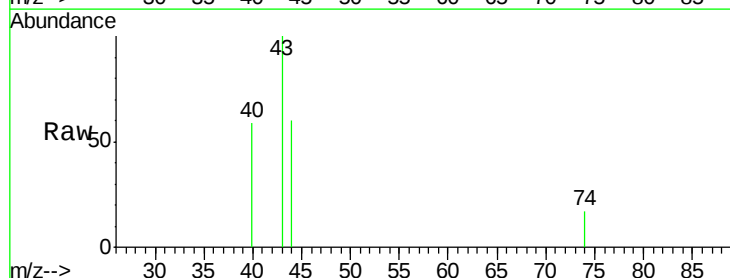
Acq: 11 Feb 2019 15:26

Tgt Ion: 43 Resp: 3290

Ion Ratio Lower Upper

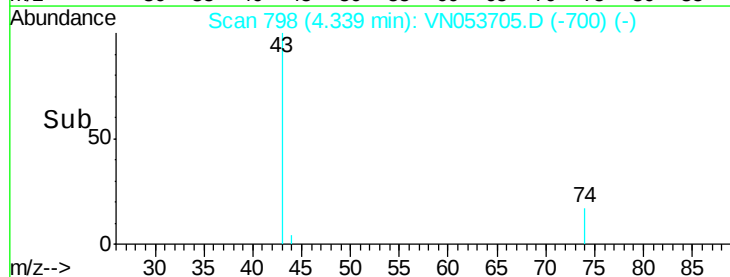
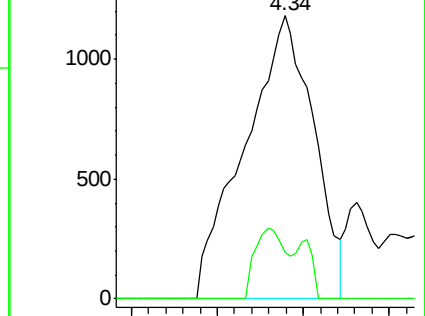
43 100

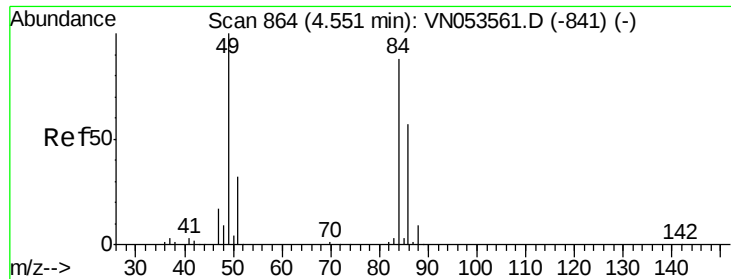
74 11.0 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



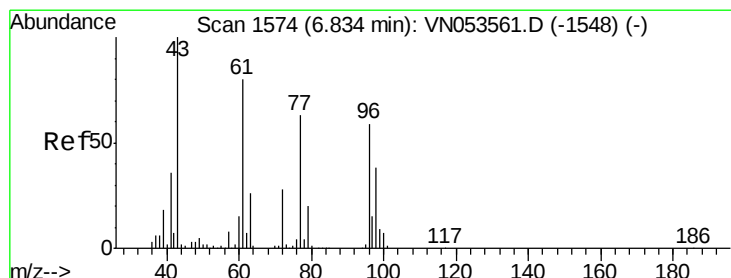
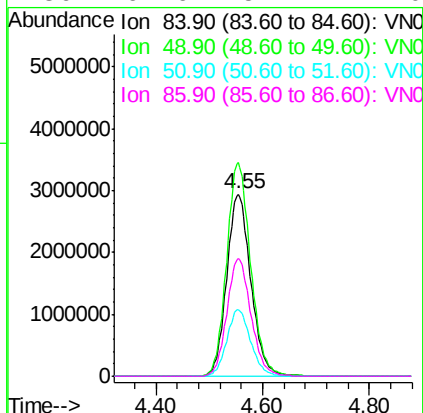
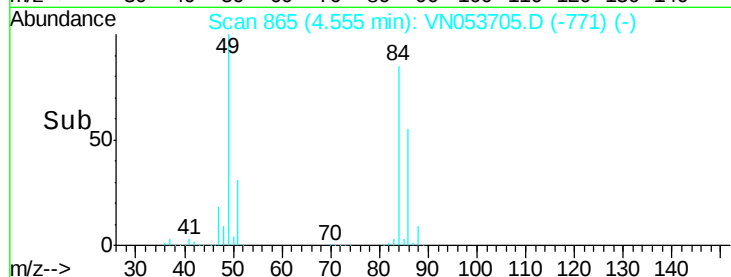
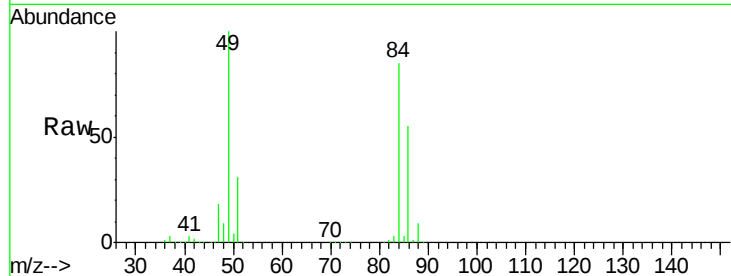


#20
Methvlene Chloride
Concen: 1127.893 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053705.D
Acq: 11 Feb 2019 15:26

Instrument :
MSVOA_N
ClientSampleId :
COMP-11

Tot Ion: 84 Resp: 9225964

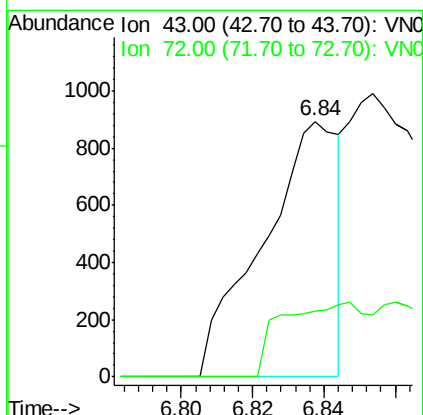
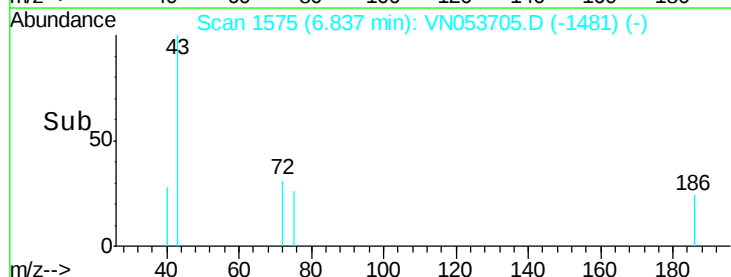
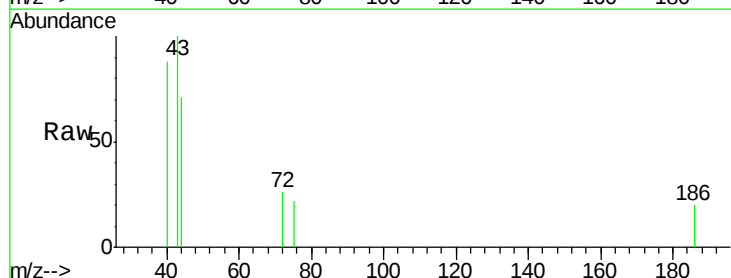
Ion	Ratio	Lower	Upper
84	100		
49	117.1	94.3	141.5
51	36.6	29.4	44.2
86	64.6	51.4	77.0

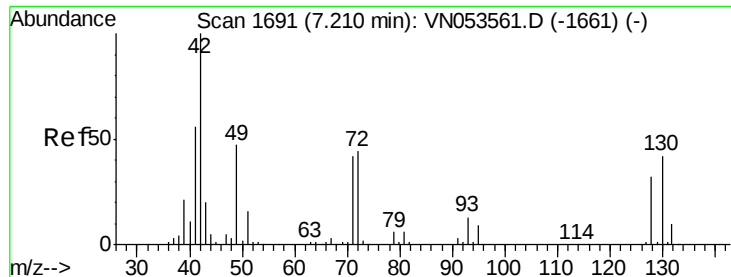


#25
2-Butanone
Concen: 0.473 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN053705.D
Acq: 11 Feb 2019 15:26

Tgt Ion: 43 Resp: 1315

Ion	Ratio	Lower	Upper
43	100		
72	26.0	22.0	33.0





#29

Tetrahydrofuran

Concen: 0.449 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN053705.D

Acq: 11 Feb 2019 15:26

Instrument :

MSVOA_N

ClientSampled :

COMP-11

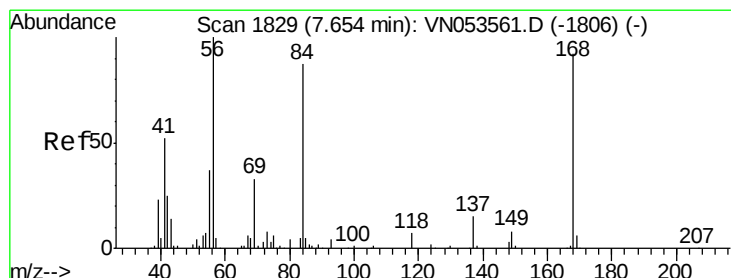
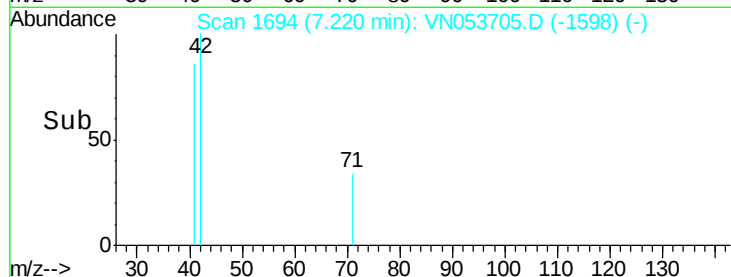
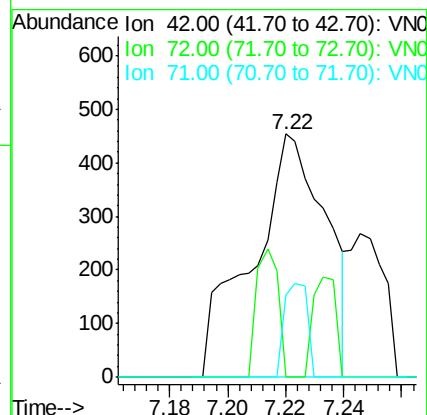
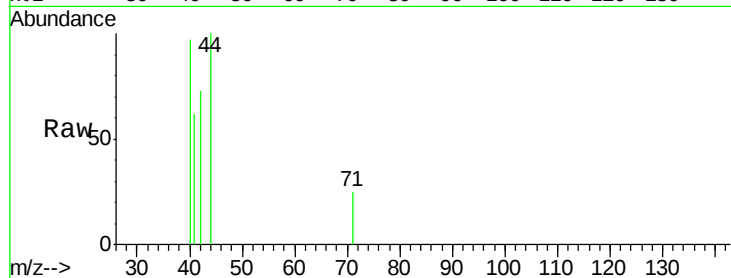
Tot Ion: 42 Resp: 801

Ion Ratio Lower Upper

42 100

72 15.5 35.2 52.8#

71 12.0 33.0 49.4#



#31

Cyclohexane

Concen: 0.717 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053705.D

Acq: 11 Feb 2019 15:26

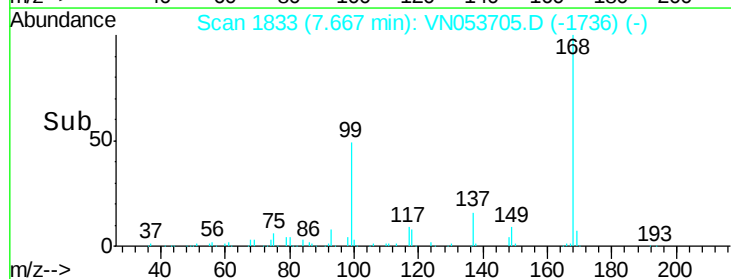
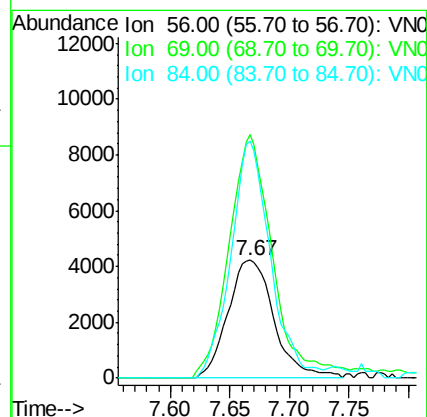
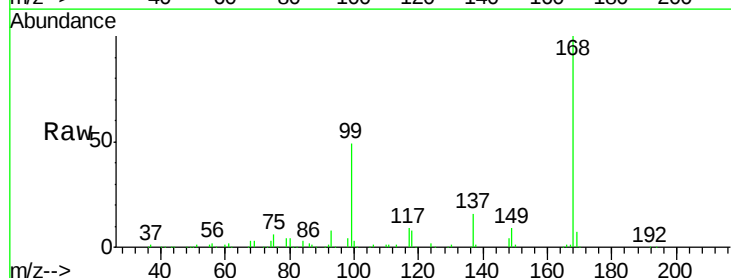
Tgt Ion: 56 Resp: 11363

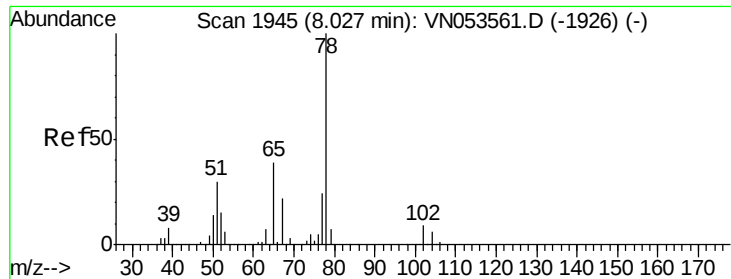
Ion Ratio Lower Upper

56 100

69 206.8 26.4 39.6#

84 201.5 67.9 101.9#

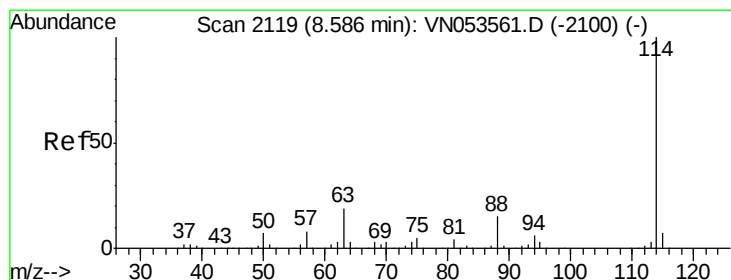
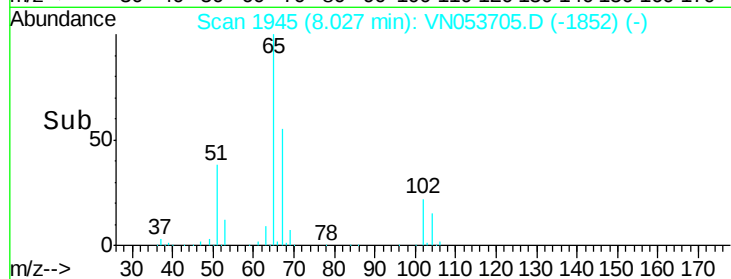
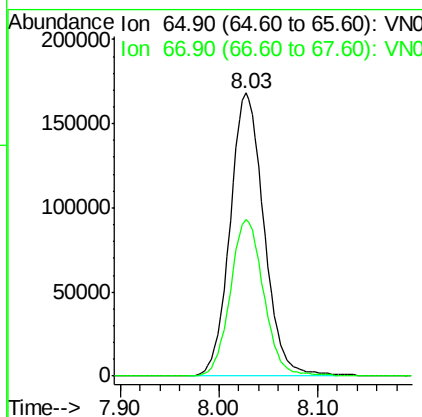
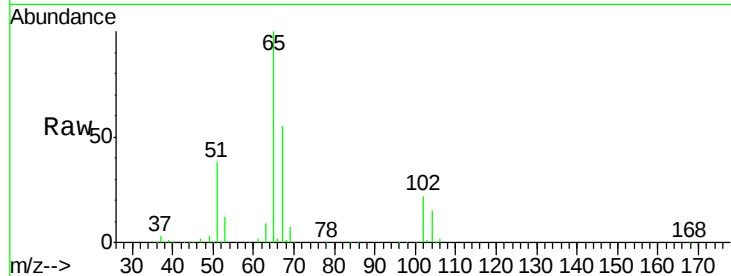




#33
 1,2-Dichloroethane-d4
 Concen: 52.899 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053705.D
 Acq: 11 Feb 2019 15:26

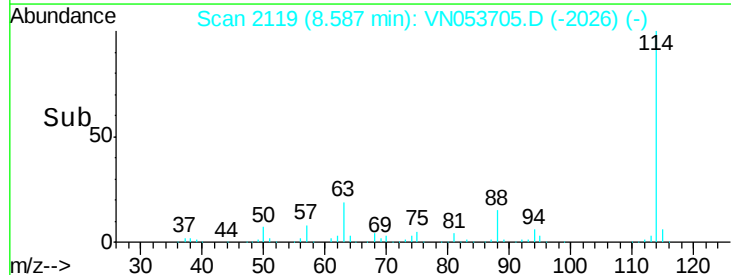
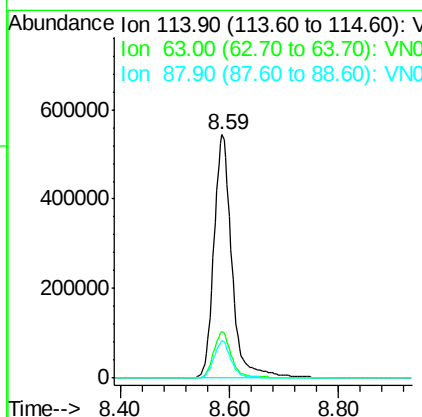
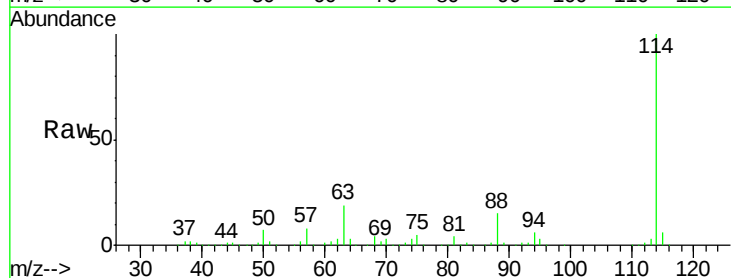
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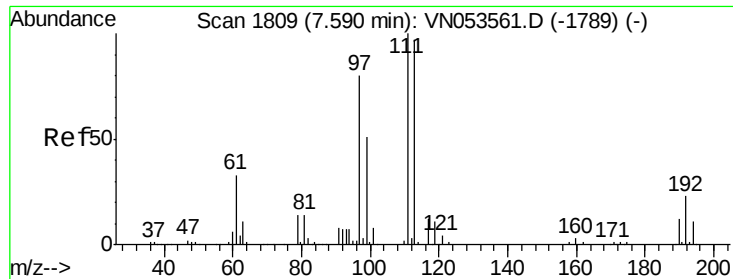
Tot Ion: 65 Resp: 402091
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053705.D
 Acq: 11 Feb 2019 15:26

Tgt Ion: 114 Resp: 1242117
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 38.6
 88 15.2 0.0 30.4

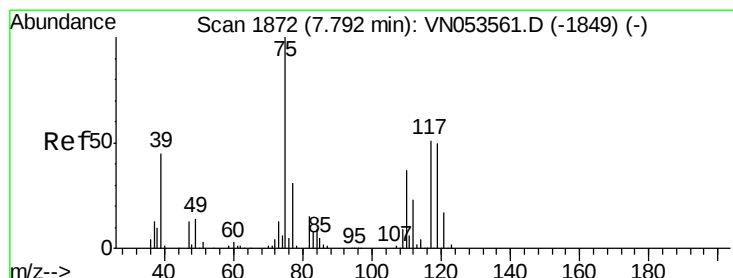
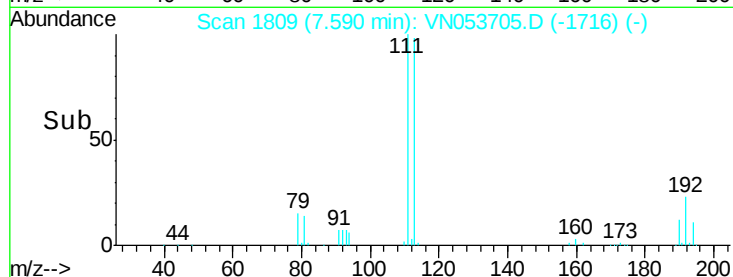
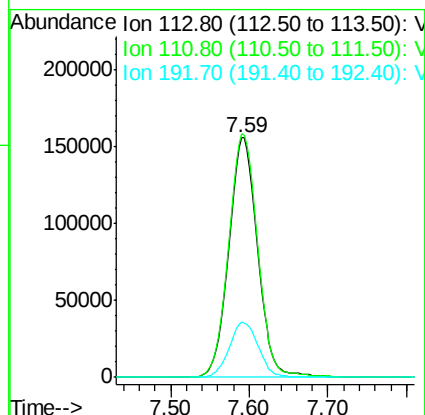
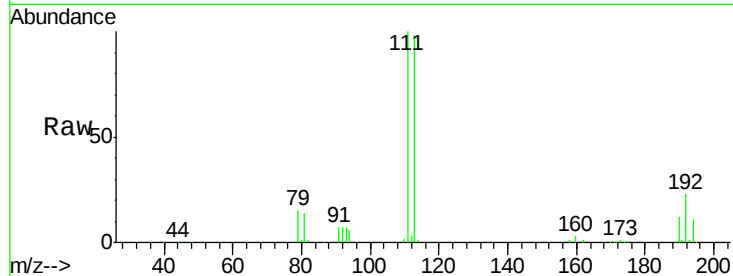




#35
 Dibromofluoromethane
 Concen: 50.171 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053705.D
 Acq: 11 Feb 2019 15:26

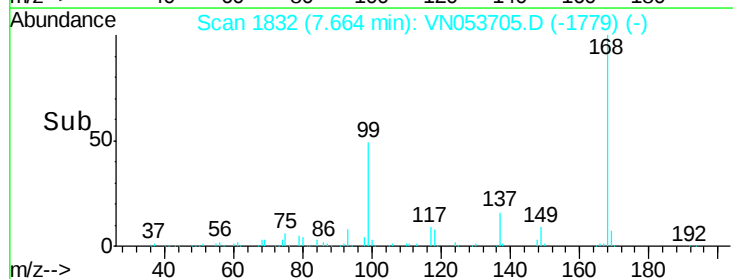
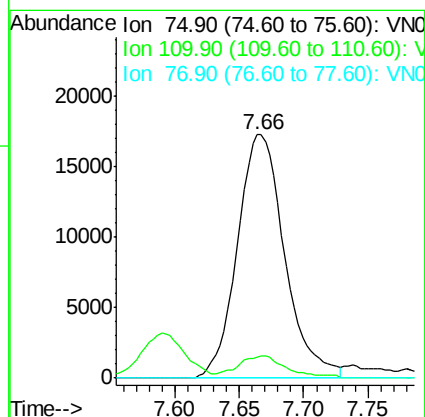
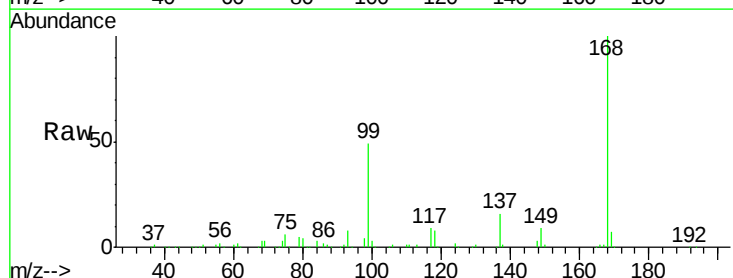
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 MSVOA_N
 ClientSampleId :
 COMP-11

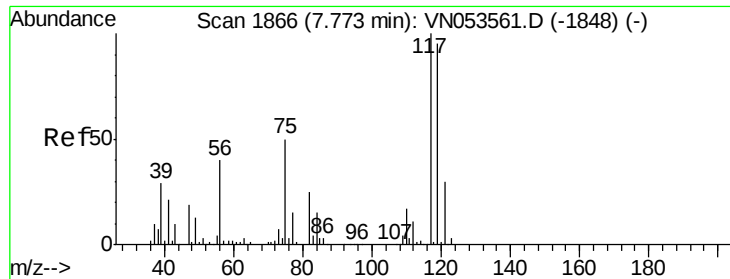
Tot Ion:113 Resp: 393774
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.1 121.7
 192 23.3 18.2 27.2



#36
 1,1-Dichloropropene
 Concen: 3.936 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053705.D
 Acq: 11 Feb 2019 15:26

Tgt Ion: 75 Resp: 44069
 Ion Ratio Lower Upper
 75 100
 110 7.4 18.1 54.3#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 5.395 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053705.D

Acq: 11 Feb 2019 15:26

Instrument :

MSVOA_N

ClientSampleId :

COMP-11

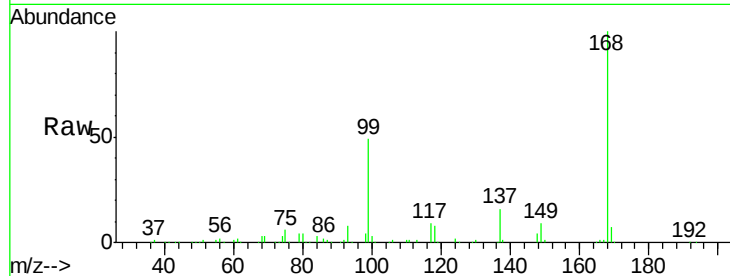
Tot Ion:117 Resp: 60850

Ion Ratio Lower Upper

117 100

119 5.7 77.2 115.8#

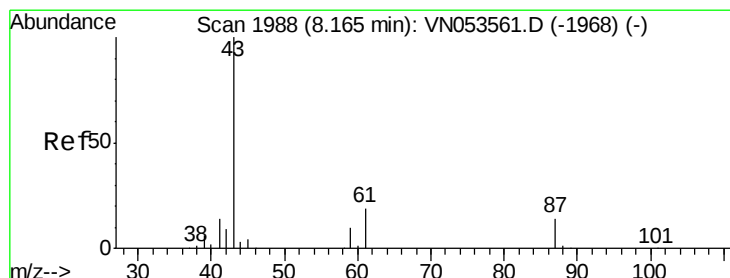
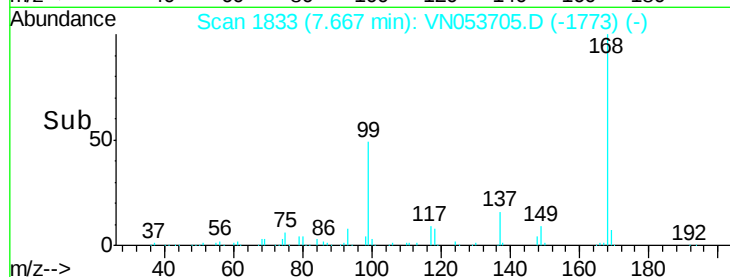
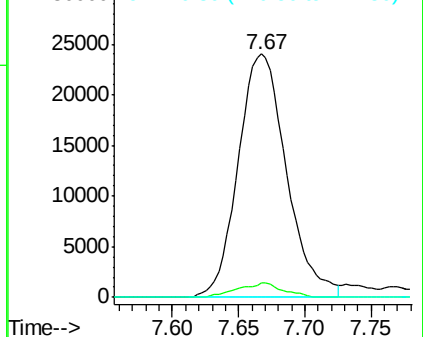
121 0.0 24.6 37.0#



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



#43

Isopropyl Acetate

Concen: 2.809 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN053705.D

Acq: 11 Feb 2019 15:26

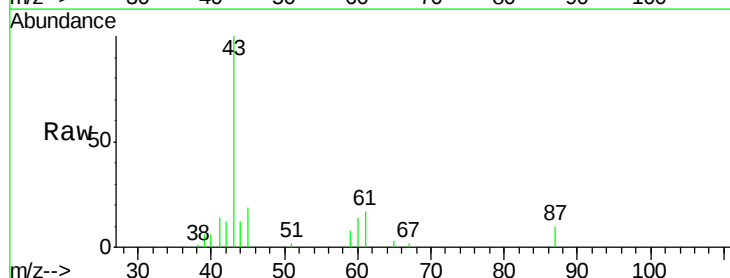
Tgt Ion: 43 Resp: 33923

Ion Ratio Lower Upper

43 100

61 15.5 23.9 35.9#

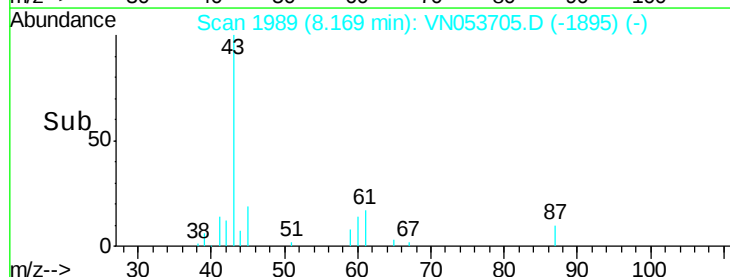
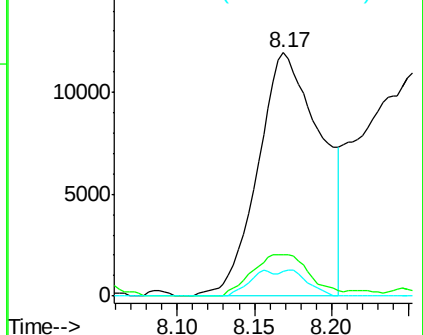
87 4.1 11.0 16.6#

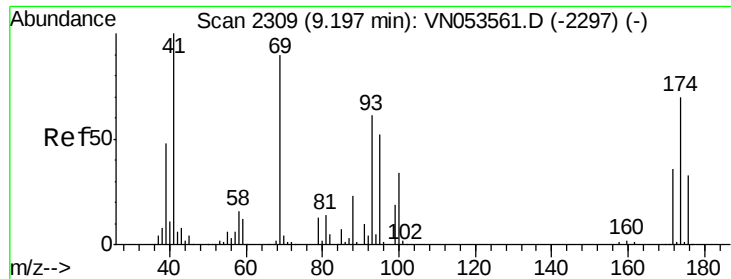


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

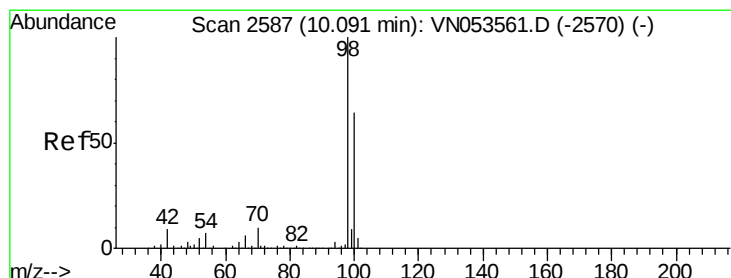
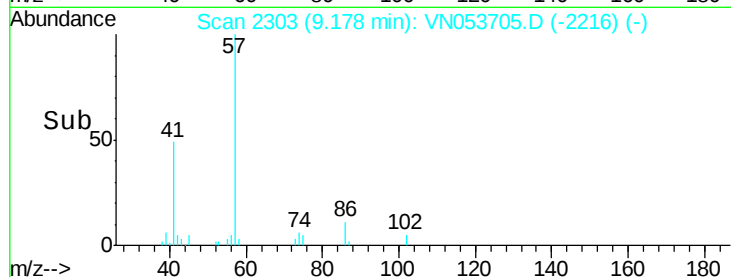
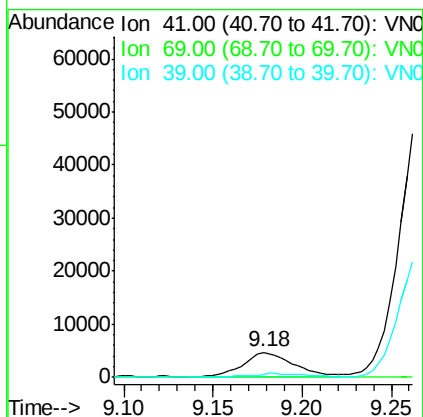
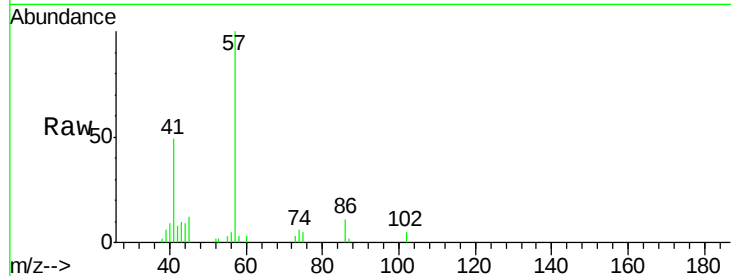




#48
Methyl methacrylate
Concen: 1.636 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053705.D
Acq: 11 Feb 2019 15:26

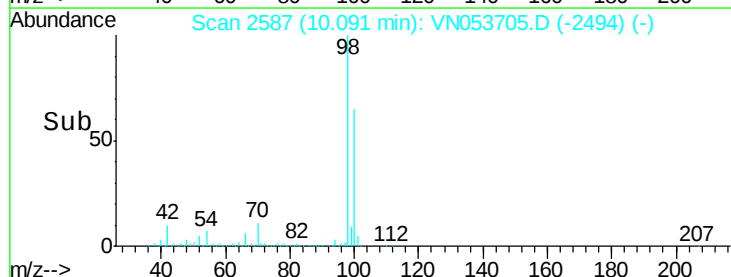
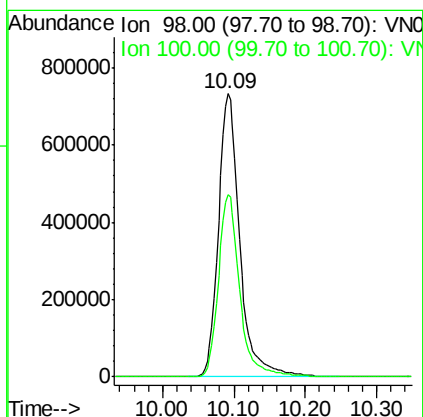
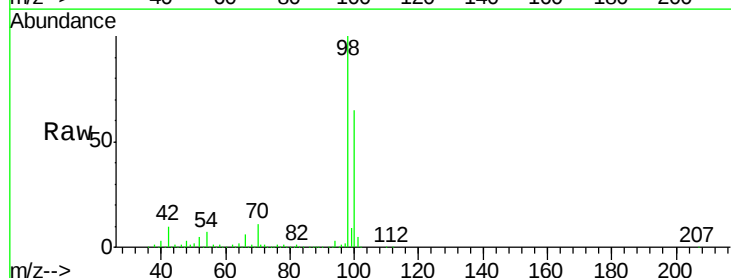
Instrument :
MSVOA_N
ClientSampleId :
COMP-11

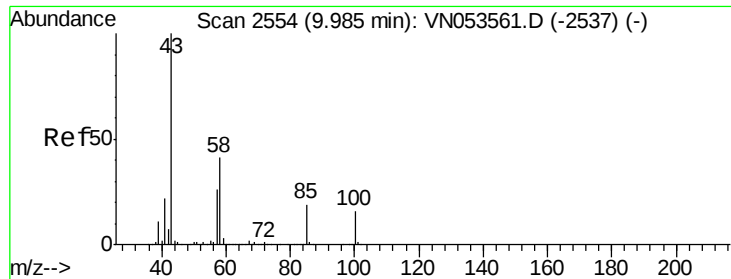
Tot Ion: 41 Resp: 9432
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 16.2 40.0 60.0#



#50
Toluene-d8
Concen: 51.667 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053705.D
Acq: 11 Feb 2019 15:26

Tgt Ion: 98 Resp: 1522633
Ion Ratio Lower Upper
98 100
100 64.1 51.4 77.0





#51

4-Methyl-2-Pentanone

Concen: 1.247 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN053705.D

Acq: 11 Feb 2019 15:26

Instrument :

MSVOA_N

ClientSampled :

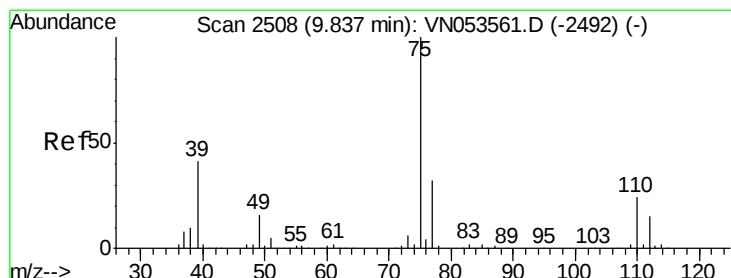
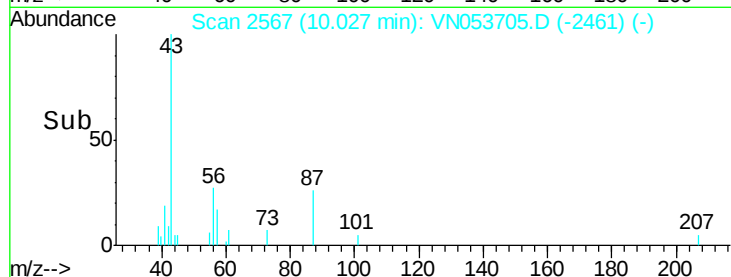
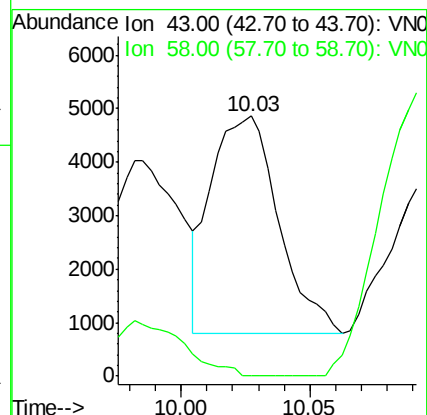
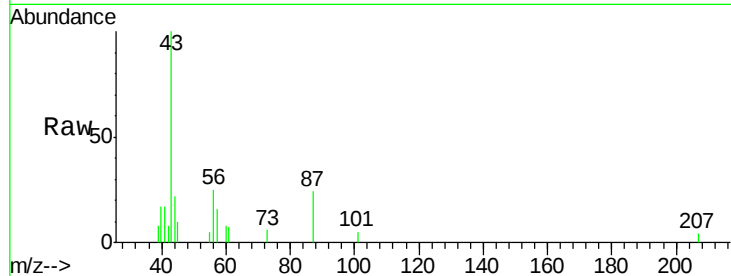
COMP-11

Tot Ion: 43 Resp: 7402

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



#54

cis-1,3-Dichloropropene

Concen: 4.859 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053705.D

Acq: 11 Feb 2019 15:26

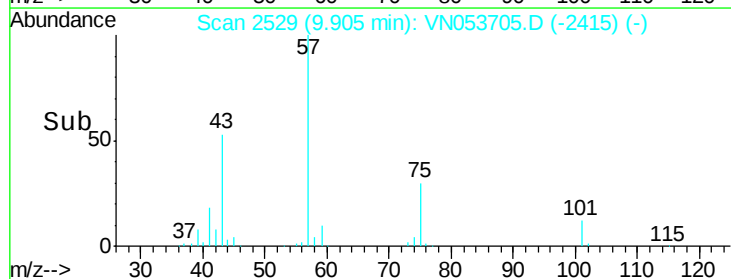
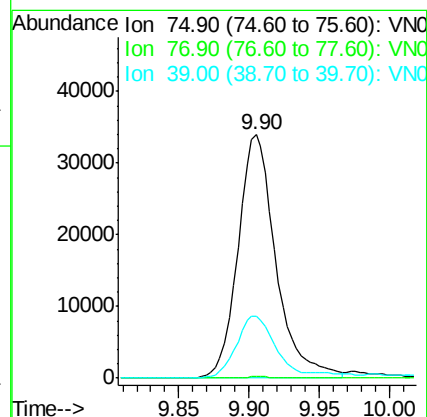
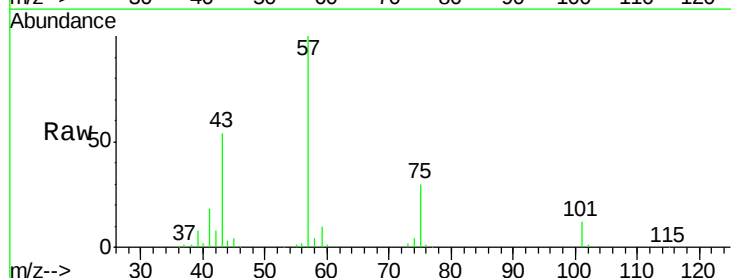
Tgt Ion: 75 Resp: 63820

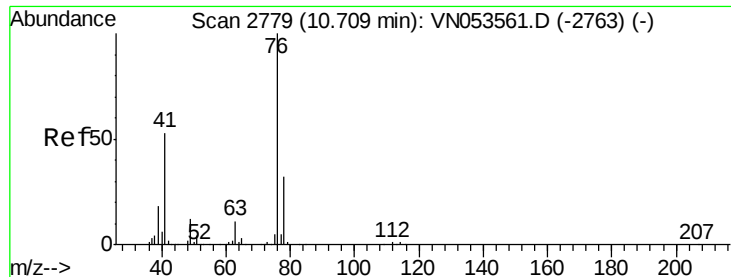
Ion Ratio Lower Upper

75 100

77 0.7 25.8 38.6#

39 25.2 33.4 50.0#

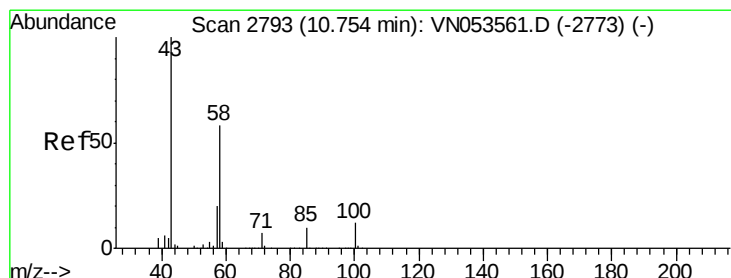
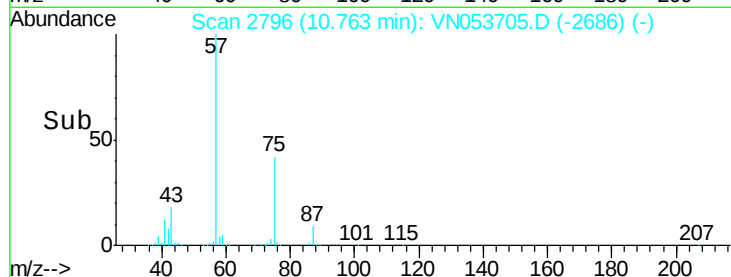
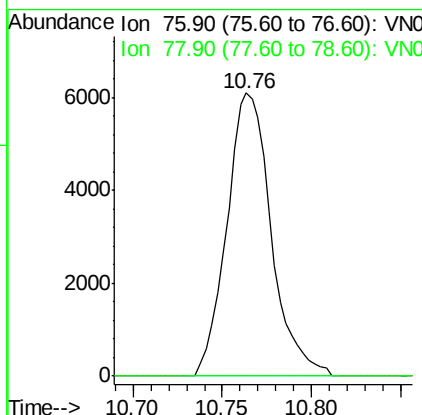
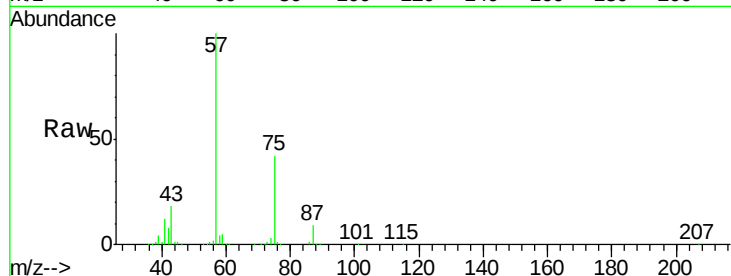




#57
 1,3-Dichloropropane
 Concen: 0.836 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN053705.D
 Acq: 11 Feb 2019 15:26

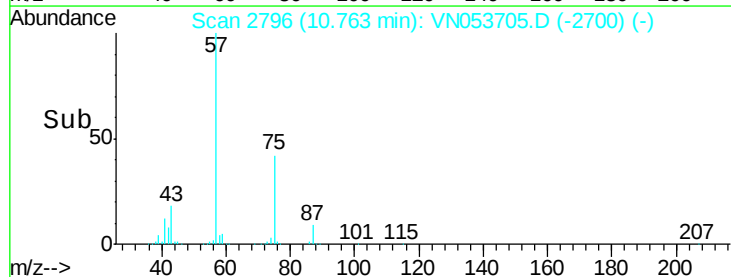
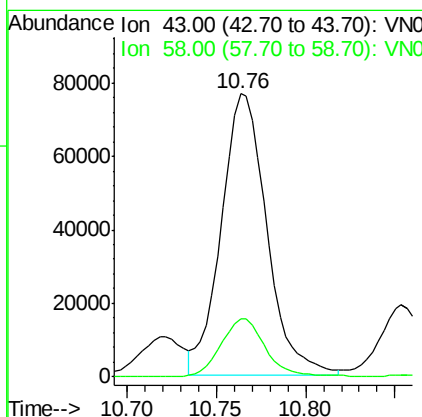
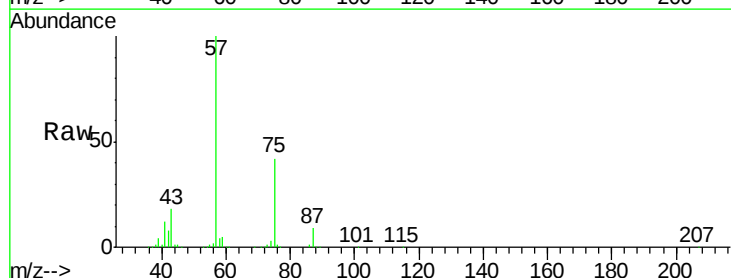
Instrument :
 MSVOA_N
 ClientSampled :
 COMP-11

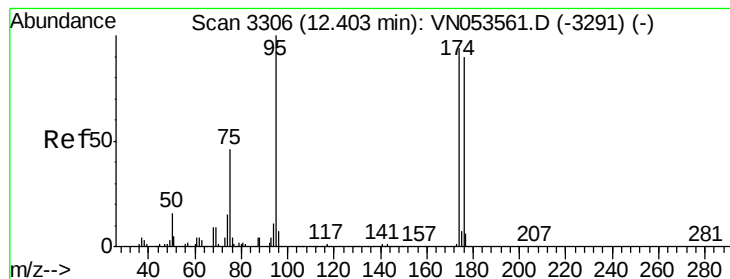
Tot Ion: 76 Resp: 10554
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 33.896 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053705.D
 Acq: 11 Feb 2019 15:26

Tgt Ion: 43 Resp: 136563
 Ion Ratio Lower Upper
 43 100
 58 20.2 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: 49.663 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053705.D

Acq: 11 Feb 2019 15:26

Instrument :

MSVOA_N

ClientSampleId :

COMP-11

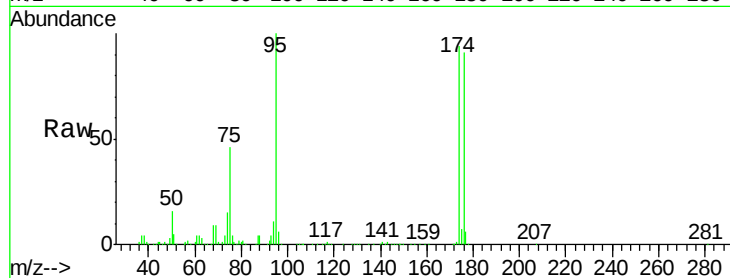
Tot Ion: 95 Resp: 488126

Ion Ratio Lower Upper

95 100

174 93.6 0.0 183.2

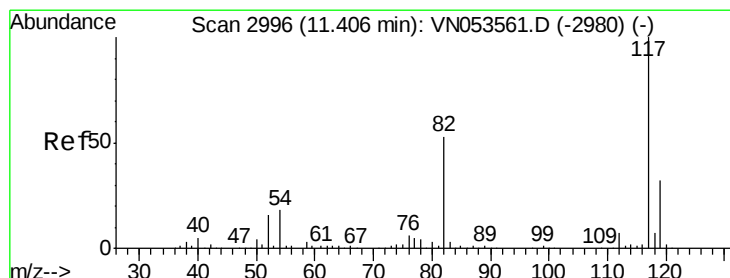
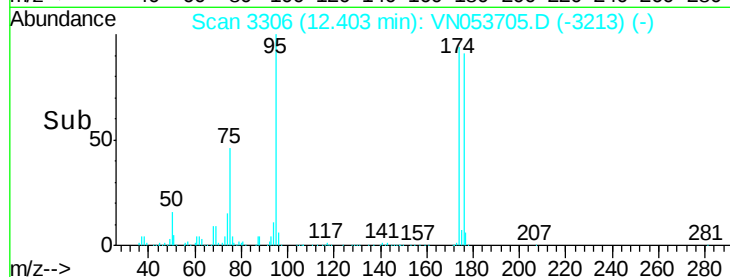
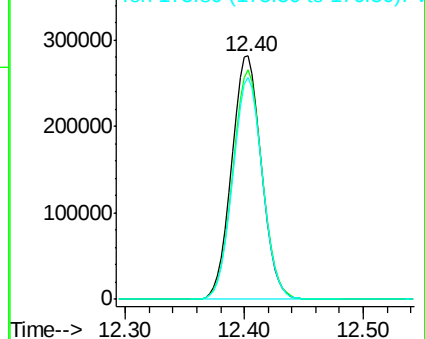
176 90.6 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053561.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053561.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053561.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053705.D

Acq: 11 Feb 2019 15:26

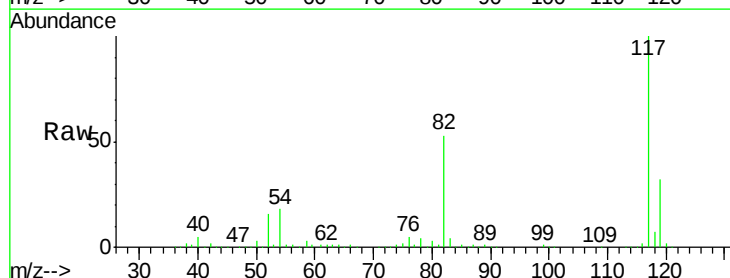
Tgt Ion: 117 Resp: 1138905

Ion Ratio Lower Upper

117 100

82 52.6 42.9 64.3

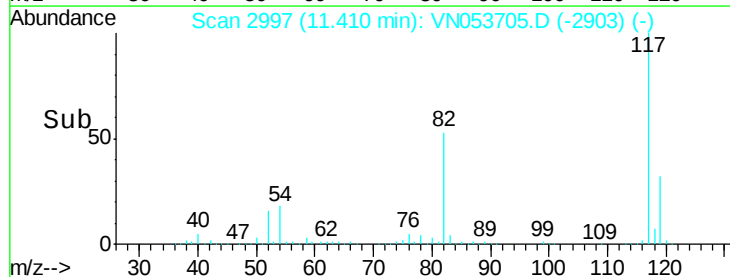
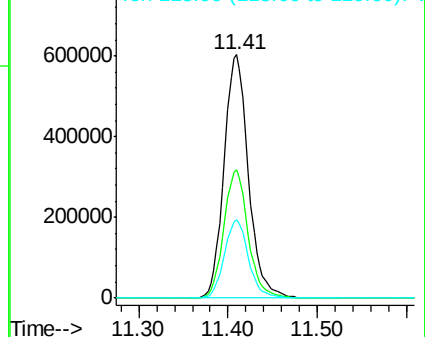
119 32.4 26.0 39.0

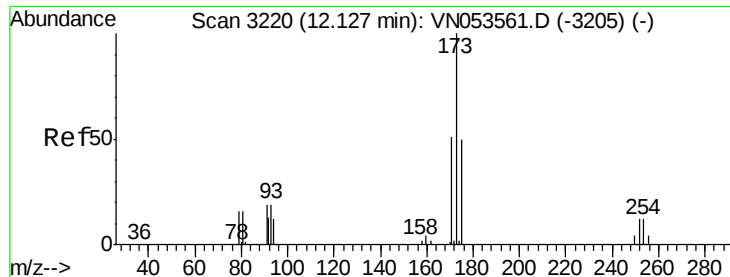


Abundance Ion 116.90 (116.60 to 117.60): VN053561.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053561.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053561.D (-2980) (-)

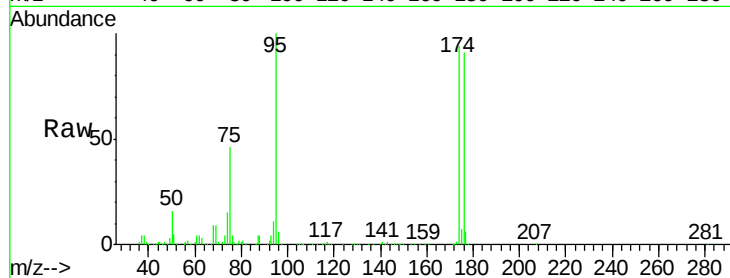




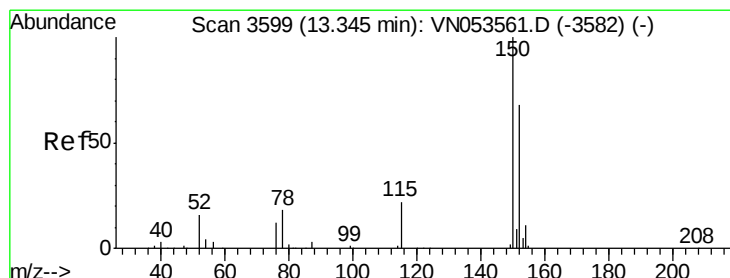
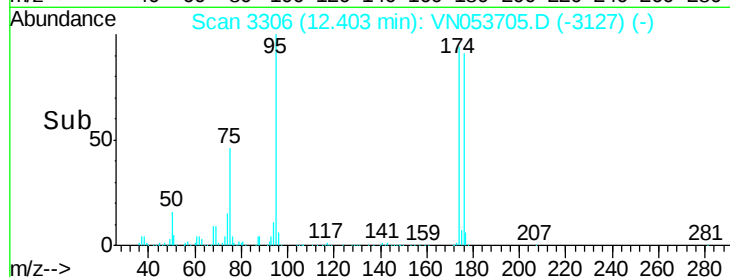
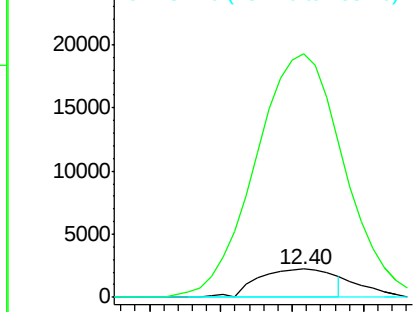
#71
Bromoform
Concen: 0.567 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053705.D
Acq: 11 Feb 2019 15:26

Instrument :
MSVOA_N
ClientSampled :
COMP-11

Tot Ion:173 Resp: 3282
Ion Ratio Lower Upper
173 100
175 868.8 24.6 74.0#
254 0.0 0.2 0.2#

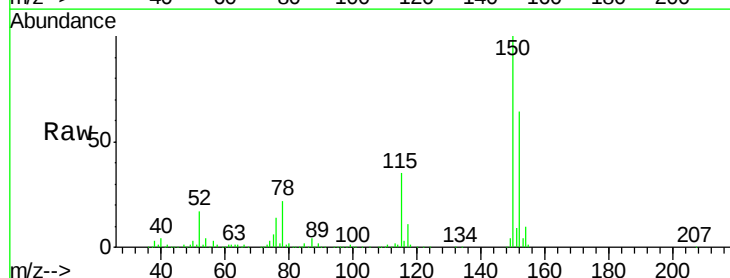


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

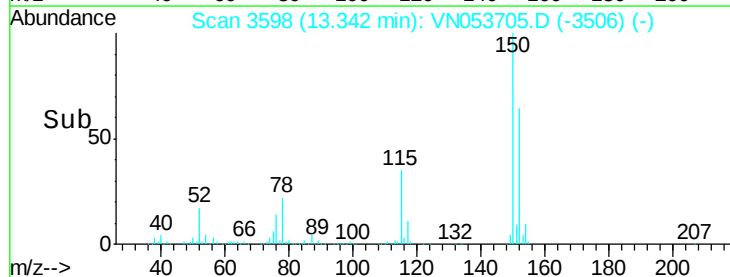
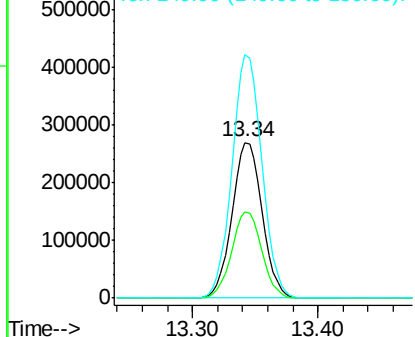


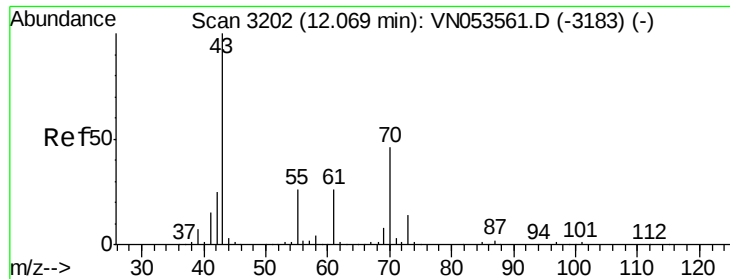
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053705.D
Acq: 11 Feb 2019 15:26

Tgt Ion:152 Resp: 448891
Ion Ratio Lower Upper
152 100
115 55.5 27.8 83.4
150 155.3 0.0 349.0



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





#74

N-amyl acetate

Concen: 1.442 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN053705.D

Acq: 11 Feb 2019 15:26

Instrument :

MSVOA_N

ClientSampled :

COMP-11

Tot Ion: 43 Resp: 10941

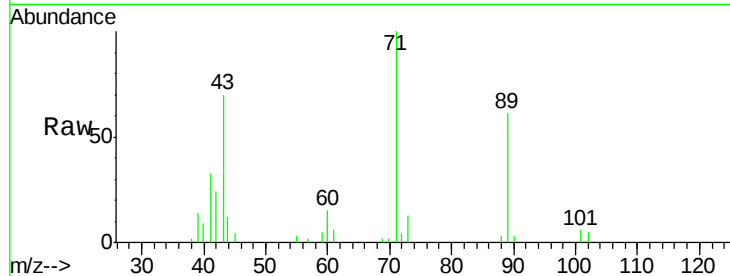
Ion Ratio Lower Upper

43 100

70 1.7 35.4 53.2#

55 2.6 20.9 31.3#

61 9.8 20.5 30.7#

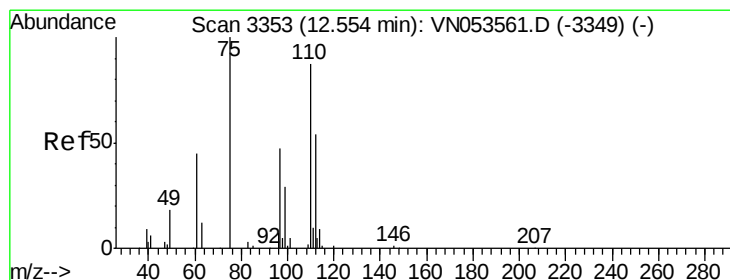
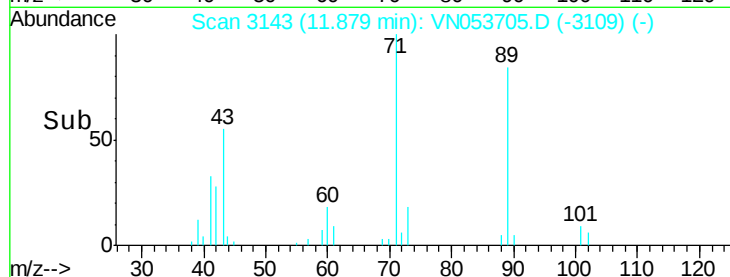
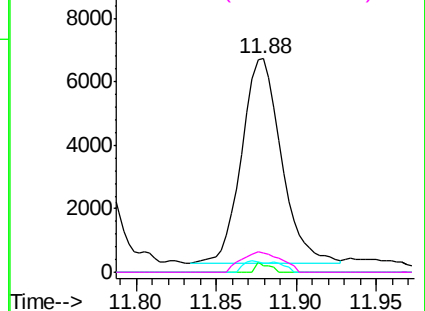


Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 39.450 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053705.D

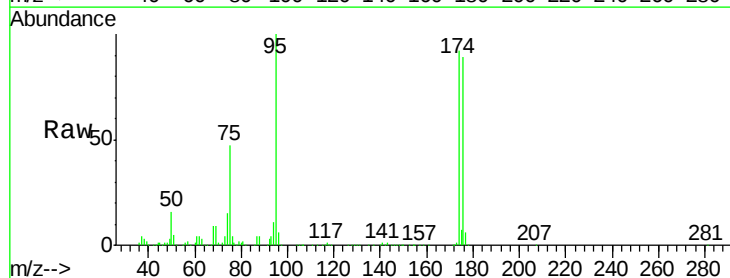
Acq: 11 Feb 2019 15:26

Tgt Ion: 75 Resp: 227458

Ion Ratio Lower Upper

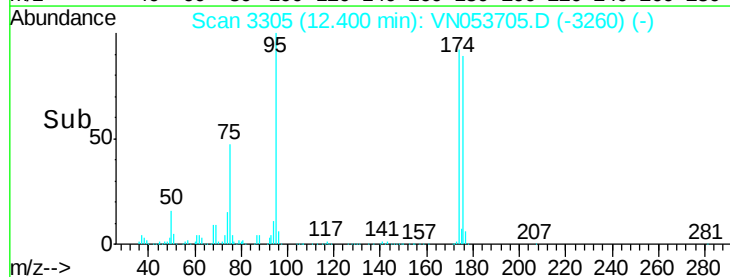
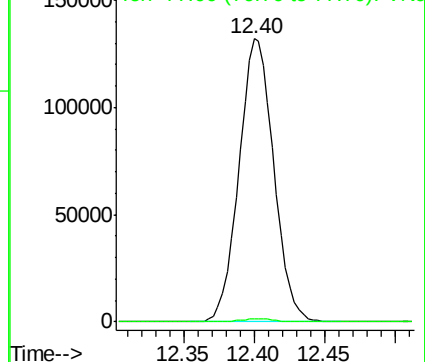
75 100

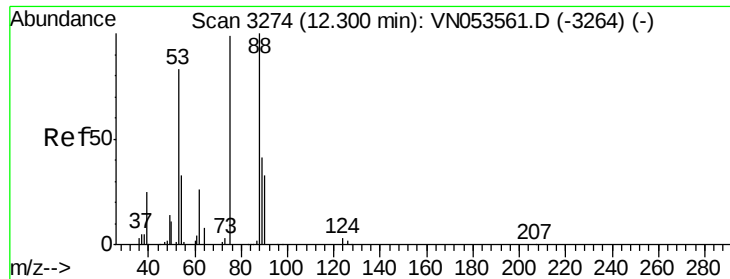
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 110.930 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053705.D

Acq: 11 Feb 2019 15:26

Instrument :

MSVOA_N

ClientSampleId :

COMP-11

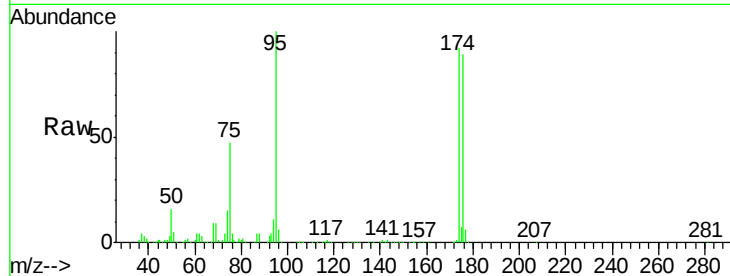
Tot Ion: 75 Resp: 227458

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

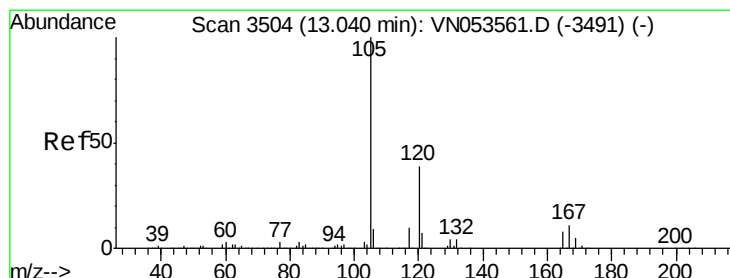
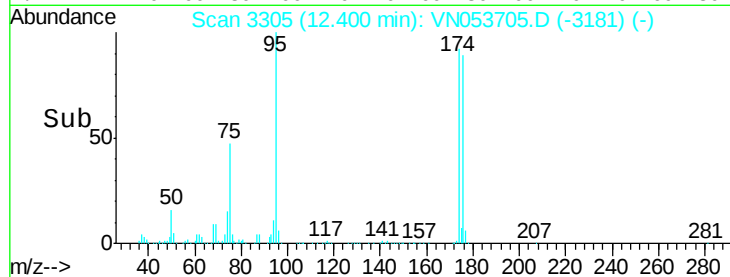
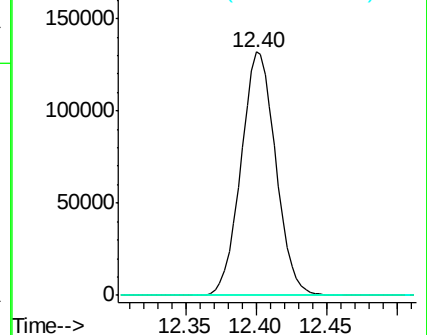
89 0.0 35.6 53.4#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.313 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053705.D

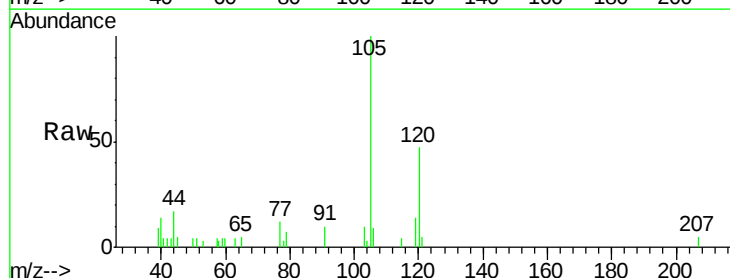
Acq: 11 Feb 2019 15:26

Tgt Ion:105 Resp: 8354

Ion Ratio Lower Upper

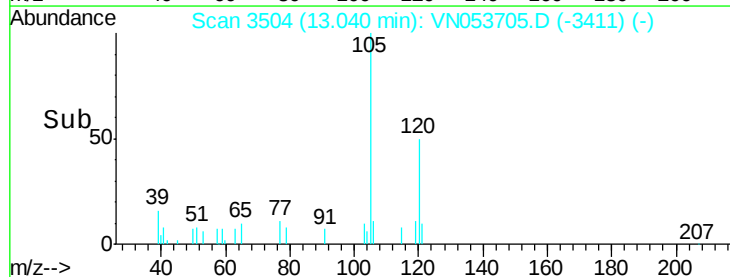
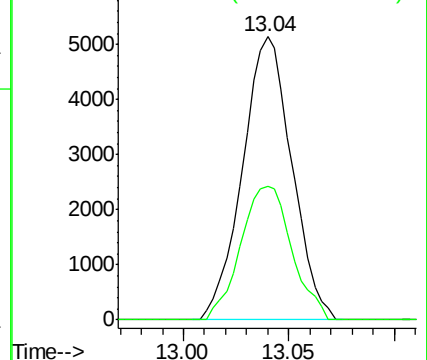
105 100

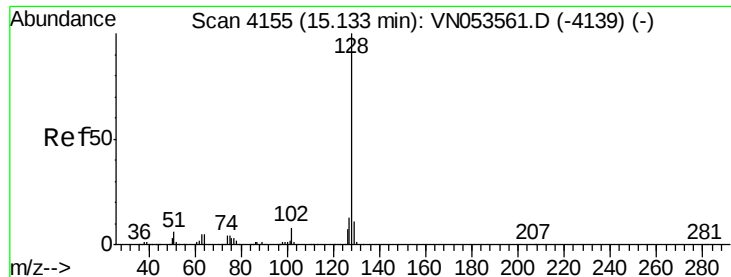
120 48.7 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 2.340 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053705.D

Acq: 11 Feb 2019 15:26

Instrument :

MSVOA_N

ClientSampleId :

COMP-11

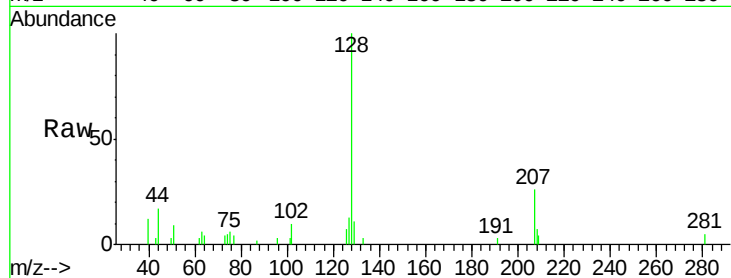
Tot Ion:128 Resp: 12331

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

129 9.8 8.6 13.0



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

