

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120618\
 Data File : VN052696.D
 Acq On : 6 Dec 2018 13:40
 Operator : MD\SY
 Sample : PB115376ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 07 06:38:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1145895	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1794661	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1556923	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	562129	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	616450	49.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.82%	
35) Dibromofluoromethane	7.59	113	344097	31.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	62.20%	
50) Toluene-d8	10.09	98	2176521	50.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.08%	
62) 4-Bromofluorobenzene	12.40	95	672285	46.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.90%	

Target Compounds

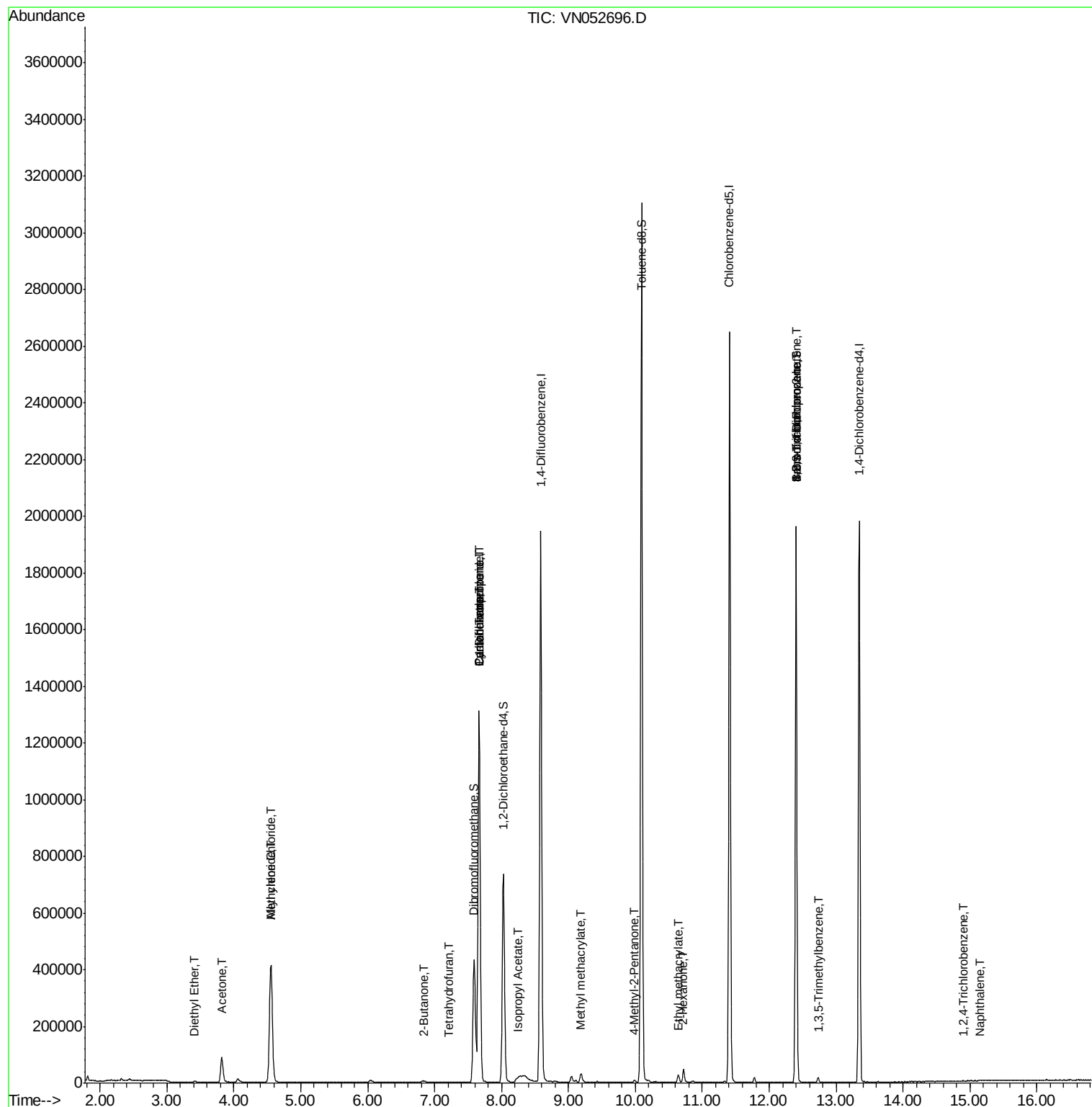
						Qvalue
8) Diethyl Ether	3.41	74	2642	0.400	ug/l	87
14) Allyl chloride	4.55	41	12484	0.675	ug/l #	26
16) Acetone	3.82	43	153207	46.555	ug/l	99
20) Methylene Chloride	4.55	84	326192	25.329	ug/l	98
25) 2-Butanone	6.84	43	2023	0.434	ug/l #	87
29) Tetrahydrofuran	7.21	42	638	0.212	ug/l #	61
31) Cyclohexane	7.66	56	19489	0.546	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	80507	4.750	ug/l #	50
38) Carbon Tetrachloride	7.66	117	101498	6.616	ug/l #	16
43) Isopropyl Acetate	8.25	43	16508	0.943	ug/l #	51
48) Methyl methacrylate	9.18	41	15095	1.654	ug/l #	24
51) 4-Methyl-2-Pentanone	9.99	43	5698	0.580	ug/l	91
56) Ethyl methacrylate	10.64	69	289	2.712	ug/l #	1
59) 2-Hexanone	10.72	43	37227	5.648	ug/l #	24
71) Bromoform	12.40	173	4465	0.604	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	323697	37.342	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7856	0.223	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	323697	124.706	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	30	2.832	ug/l #	12
95) Naphthalene	15.14	128	347	3.444	ug/l #	69

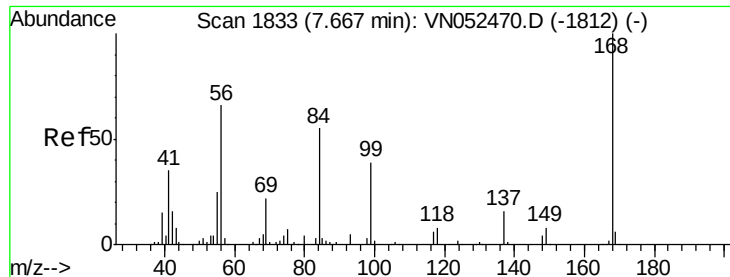
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 07 06:38:31 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
Quant Title : SW846 8260
QLast Update : Mon Dec 03 03:24:02 2018
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: VN052696.D

Acq: 6 Dec 2018 13:40

Instrument :

MSVOA_N

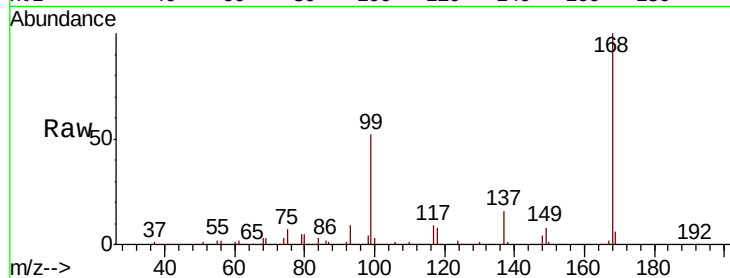
ClientSampleId :

Tot Ion:168 Resp: 1145895

Ion Ratio Lower Upper

168 100

99 51.6 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): VN052470.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052470.D (-1812) (-)

7.67

500000

400000

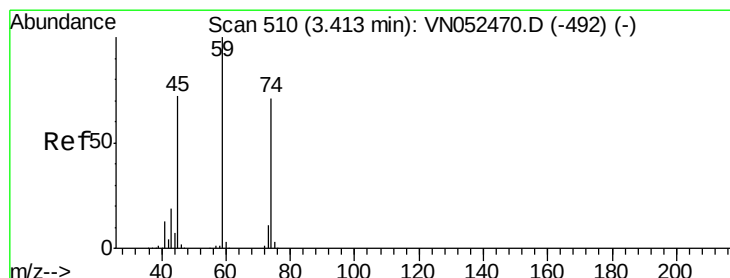
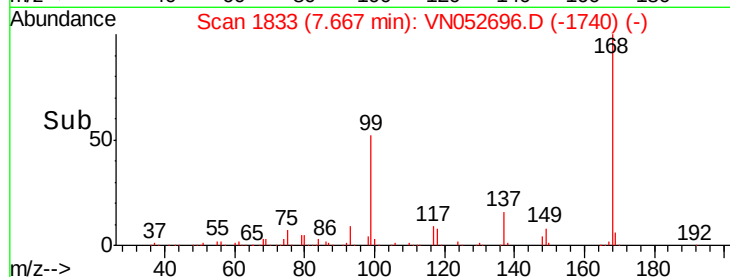
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 0.400 ug/l

RT: 3.41 min Scan# 508

Delta R.T. -0.01 min

Lab File: VN052696.D

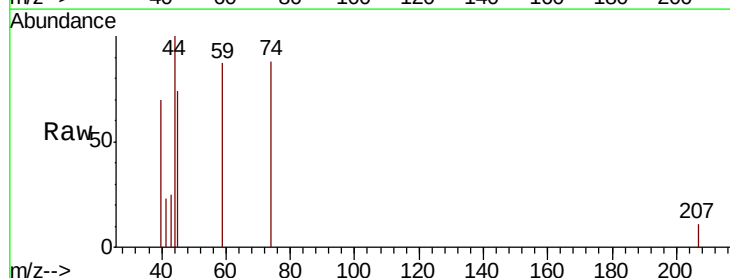
Acq: 6 Dec 2018 13:40

Tgt Ion: 74 Resp: 2642

Ion Ratio Lower Upper

74 100

45 114.0 50.4 151.3



Abundance Ion 74.00 (73.70 to 74.70): VN052470.D (-492) (-)

Ion 45.00 (44.70 to 45.70): VN052470.D (-492) (-)

3.41

2000

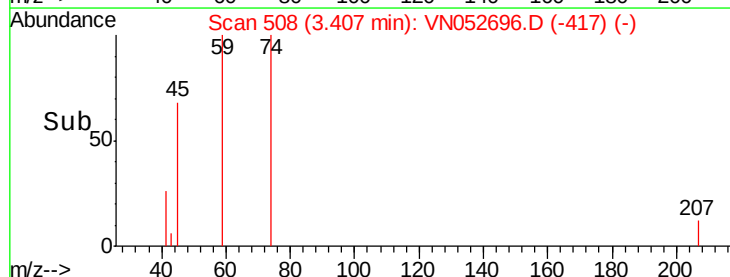
1500

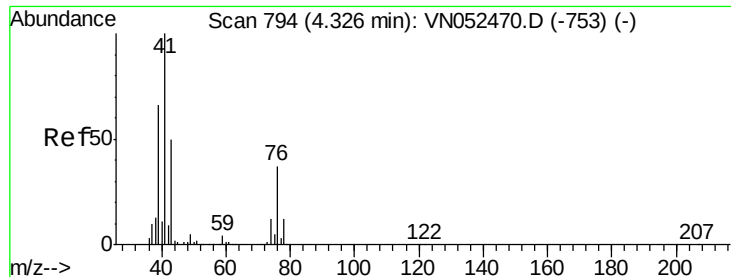
1000

500

0

Time-->

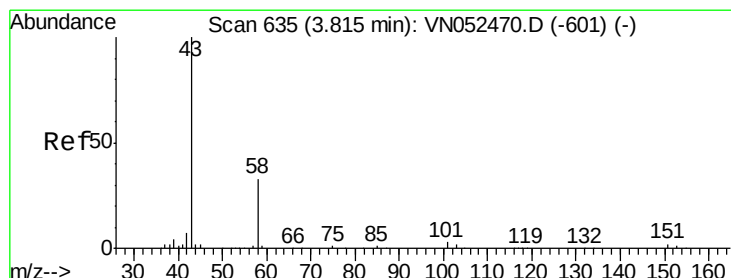
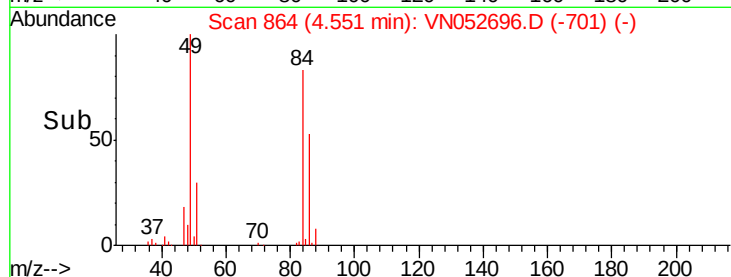
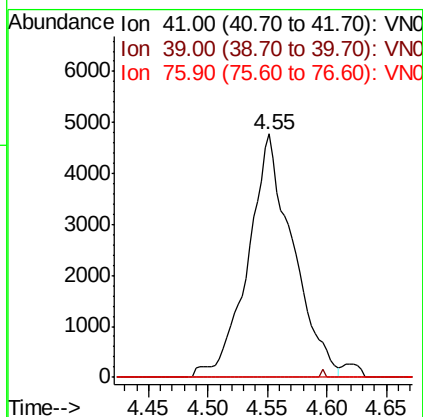
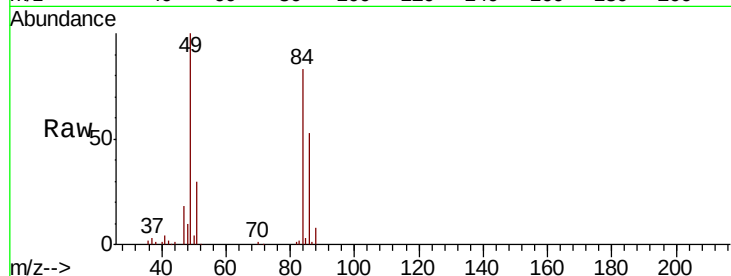




#14
Allvl chloride
Concen: 0.675 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.22 min
Lab File: VN052696.D
Acq: 6 Dec 2018 13:40

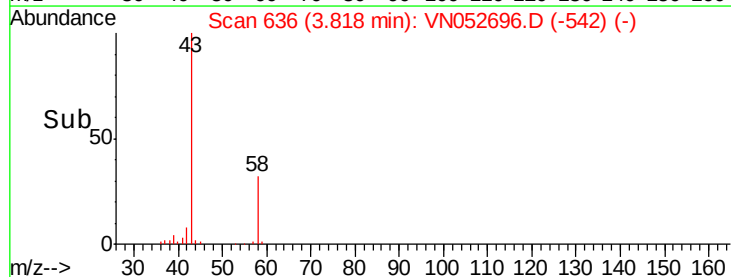
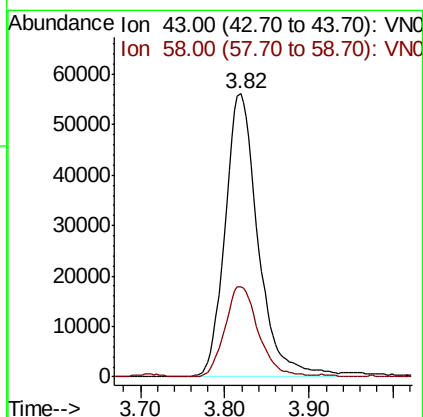
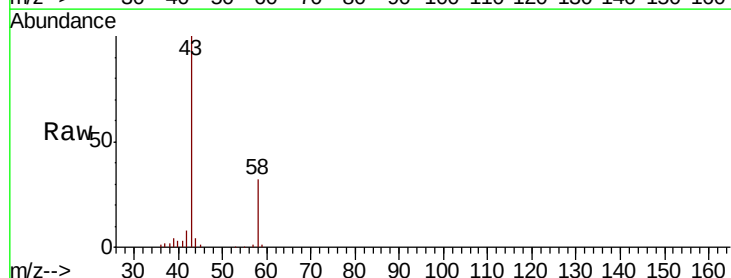
Instrument :
MSVOA_N
ClientSampled :

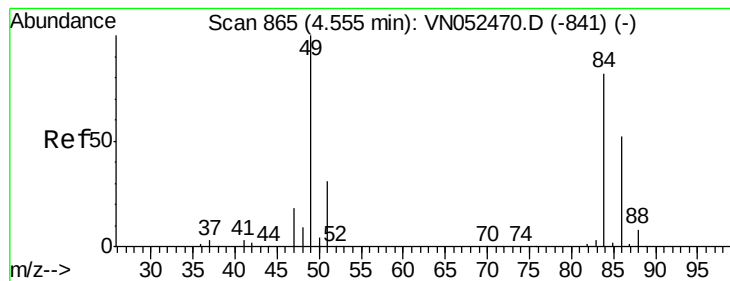
Tot Ion: 41 Resp: 12484
Ion Ratio Lower Upper
41 100
39 0.0 50.6 76.0#
76 0.0 27.4 41.2#



#16
Acetone
Concen: 46.555 ug/l
RT: 3.82 min Scan# 636
Delta R.T. 0.00 min
Lab File: VN052696.D
Acq: 6 Dec 2018 13:40

Tgt Ion: 43 Resp: 153207
Ion Ratio Lower Upper
43 100
58 31.8 26.0 39.0





#20

Methylene Chloride

Concen: 25.329 ug/l

RT: 4.55 min Scan# 865

Delta R.T. -0.00 min

Lab File: VN052696.D

Acq: 6 Dec 2018 13:40

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 84 Resp: 326192

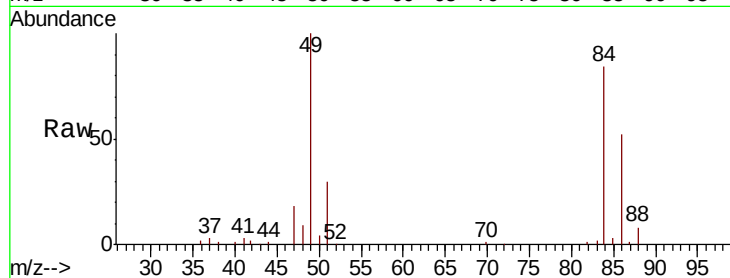
Ion Ratio Lower Upper

84 100

49 119.2 98.0 147.0

51 36.3 30.1 45.1

86 62.3 50.7 76.1



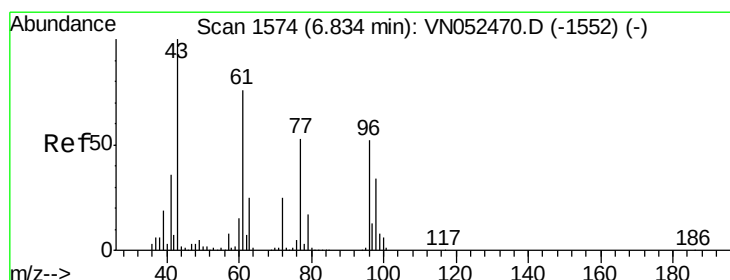
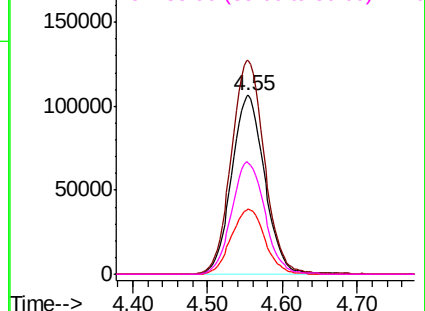
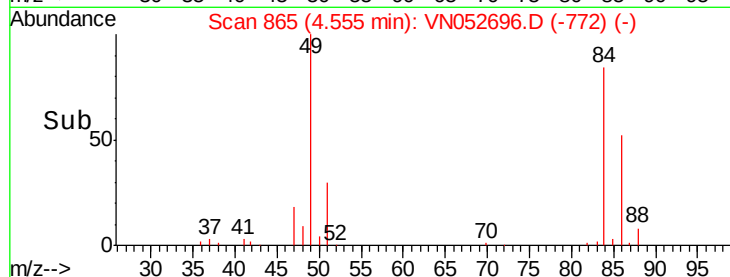
Abundance

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: 0.434 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN052696.D

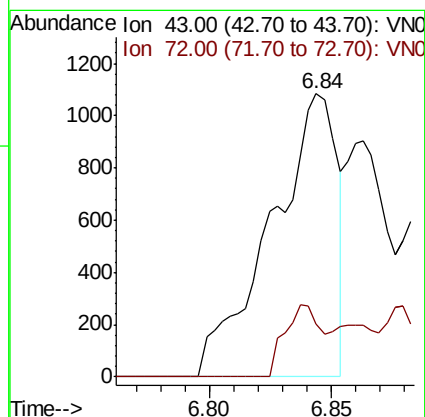
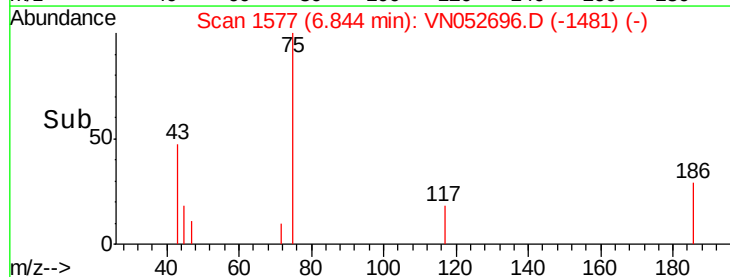
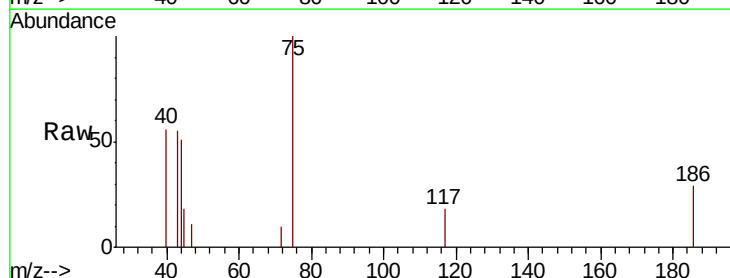
Acq: 6 Dec 2018 13:40

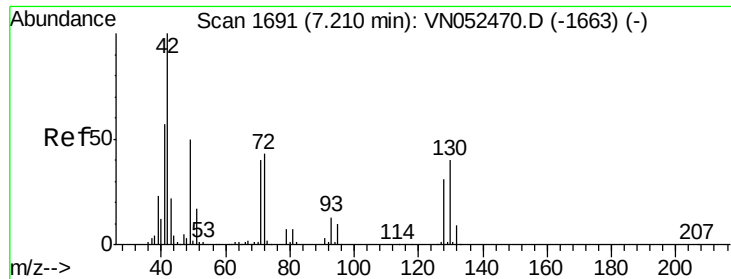
Tgt Ion: 43 Resp: 2023

Ion Ratio Lower Upper

43 100

72 18.6 20.1 30.1#

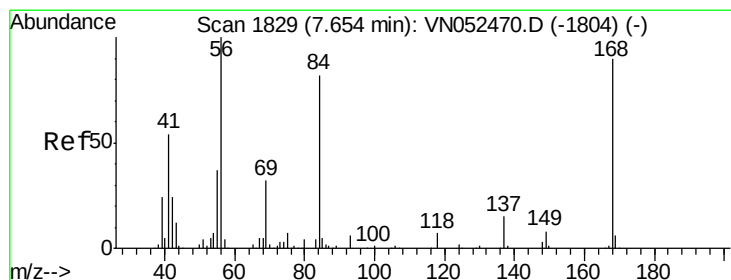
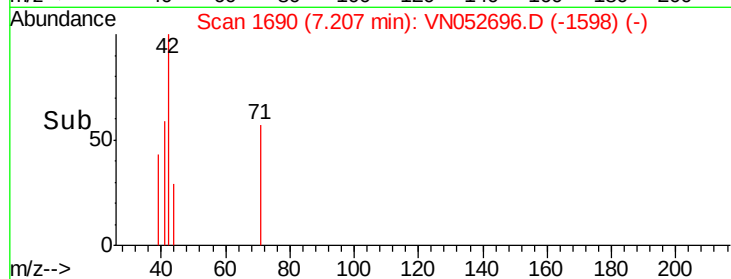
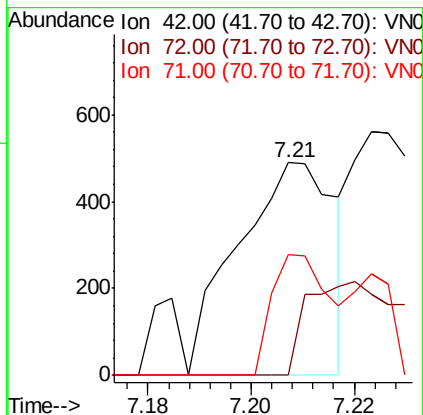
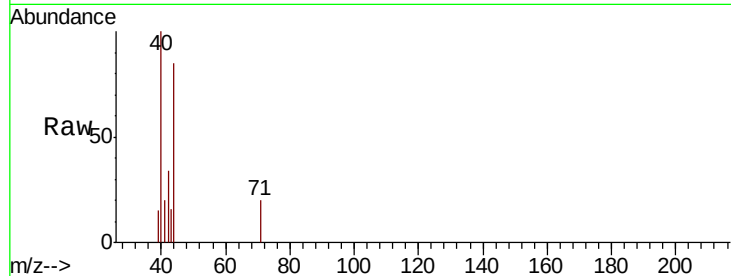




#29
Tetrahydrofuran
Concen: 0.212 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN052696.D
Acq: 6 Dec 2018 13:40

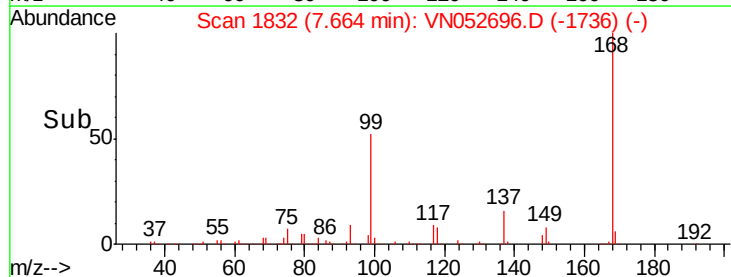
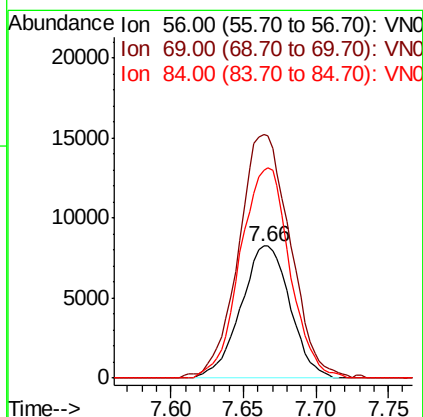
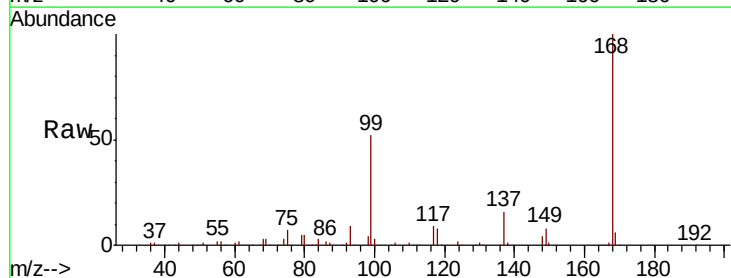
Instrument :
MSVOA_N
ClientSampled :

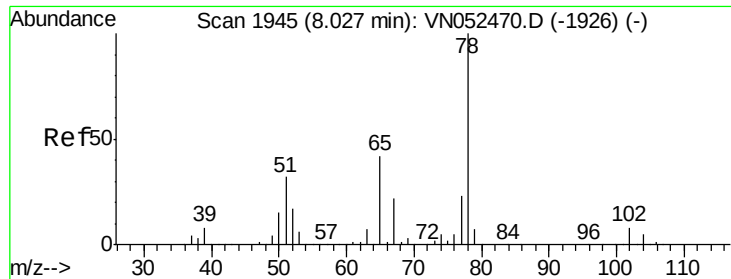
Tot Ion: 42 Resp: 638
Ion Ratio Lower Upper
42 100
72 0.0 33.3 49.9#
71 33.2 32.0 48.0



#31
Cyclohexane
Concen: 0.546 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052696.D
Acq: 6 Dec 2018 13:40

Tgt Ion: 56 Resp: 19489
Ion Ratio Lower Upper
56 100
69 181.3 25.8 38.6#
84 157.5 65.3 97.9#

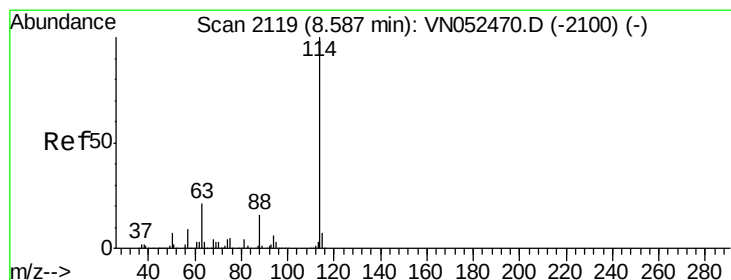
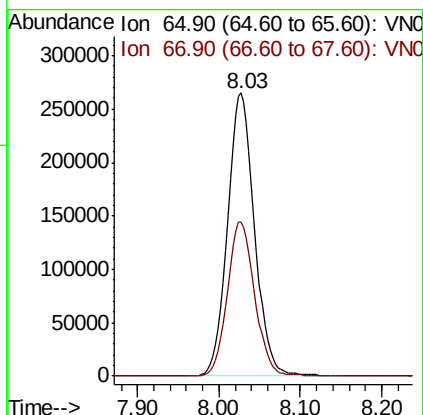
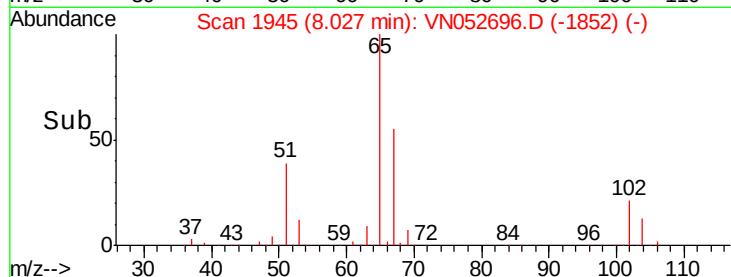
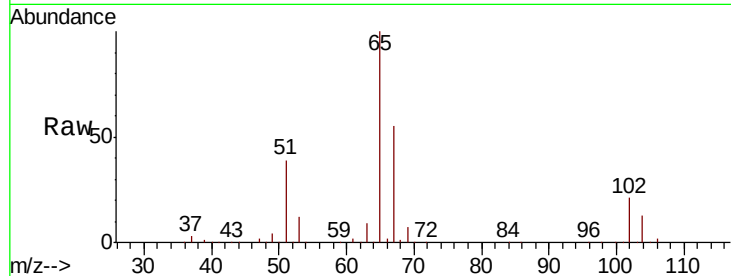




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052696.D
 Acq: 6 Dec 2018 13:40

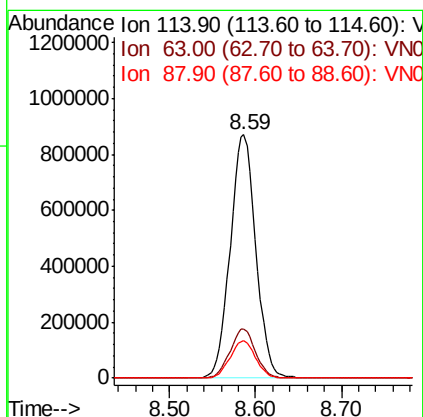
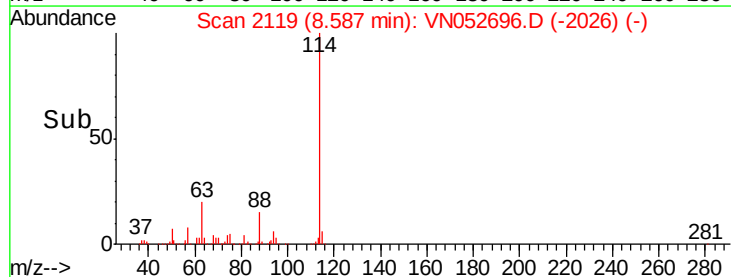
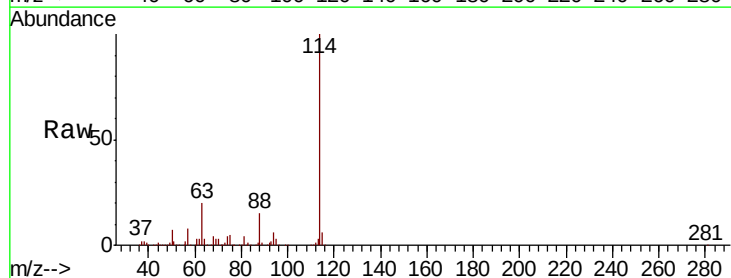
Instrument :
 MSVOA_N
 ClientSampleId :

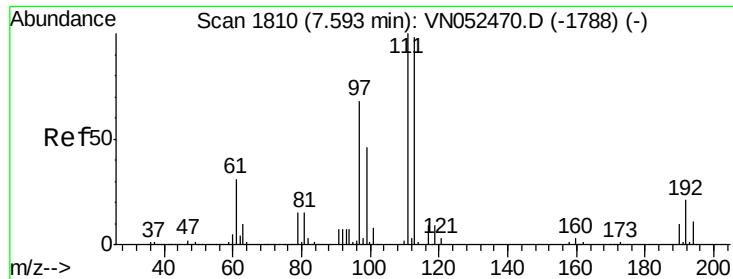
Tot Ion: 65 Resp: 616450
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052696.D
 Acq: 6 Dec 2018 13:40

Tgt Ion: 114 Resp: 1794661
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 41.8
 88 15.2 0.0 31.6

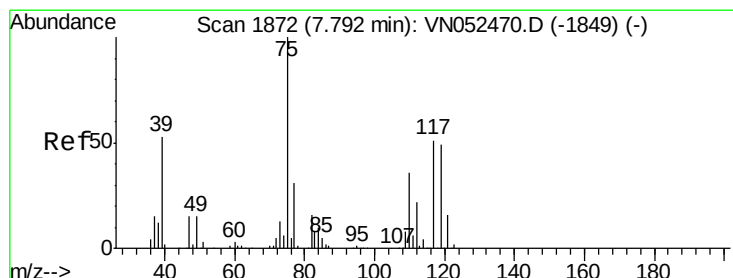
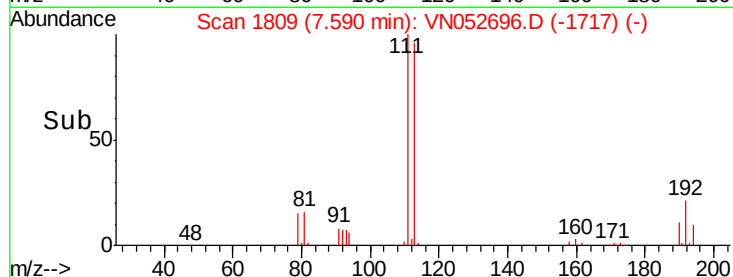
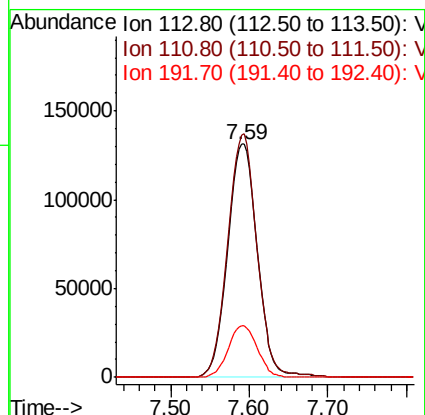
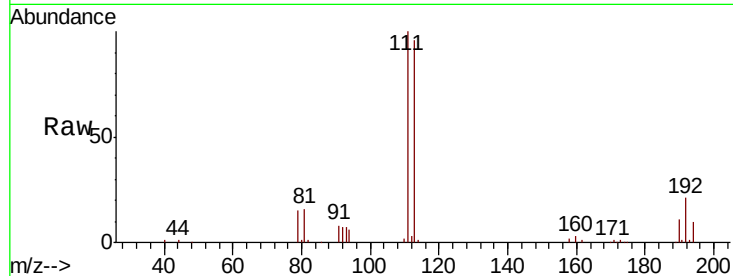




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN052696.D
 Acq: 6 Dec 2018 13:40

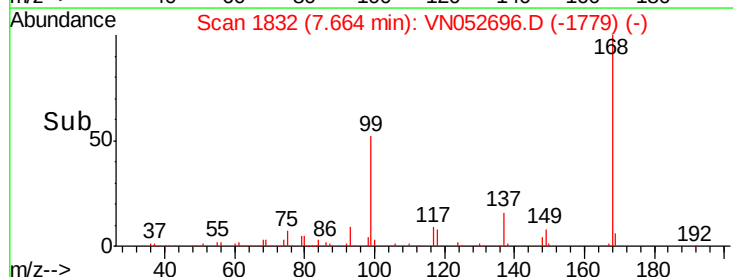
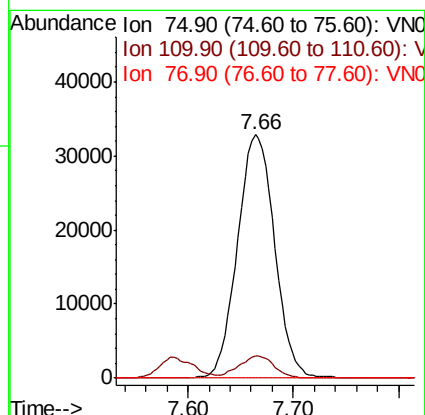
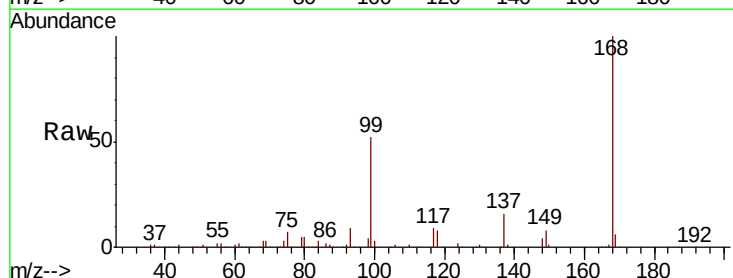
Instrument :
 MSVOA_N
 ClientSampleId :

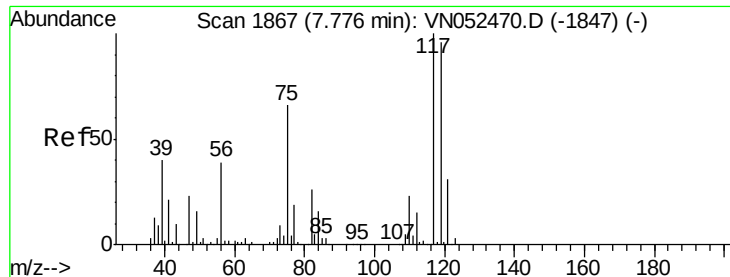
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.0	123.0
192	21.7	17.0	25.6



#36
 1,1-Dichloropropene
 Concen: 4.750 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN052696.D
 Acq: 6 Dec 2018 13:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.5	52.6#
77	0.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.616 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN052696.D

Acq: 6 Dec 2018 13:40

Instrument :

MSVOA_N

ClientSampled :

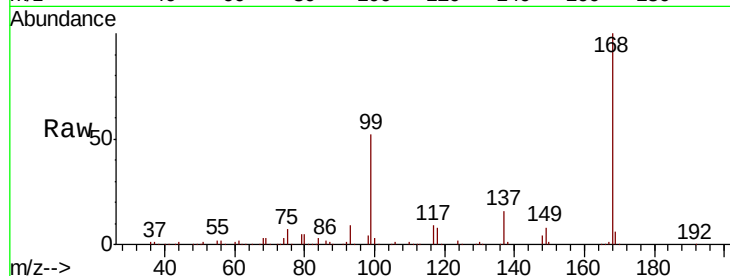
Tot Ion:117 Resp: 101498

Ion Ratio Lower Upper

117 100

119 4.8 76.8 115.2#

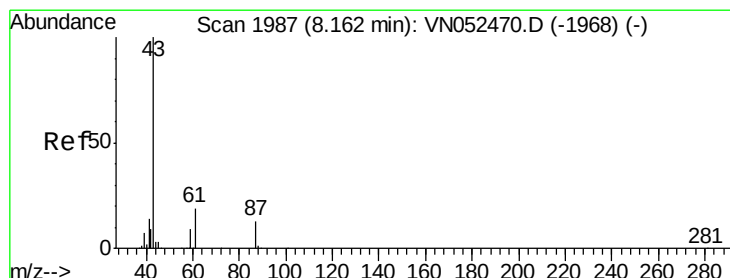
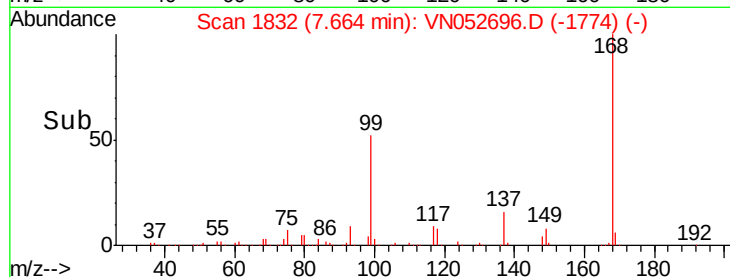
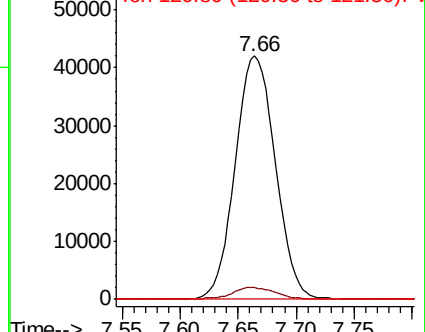
121 0.0 24.9 37.3#



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: 0.943 ug/l

RT: 8.25 min Scan# 2015

Delta R.T. 0.09 min

Lab File: VN052696.D

Acq: 6 Dec 2018 13:40

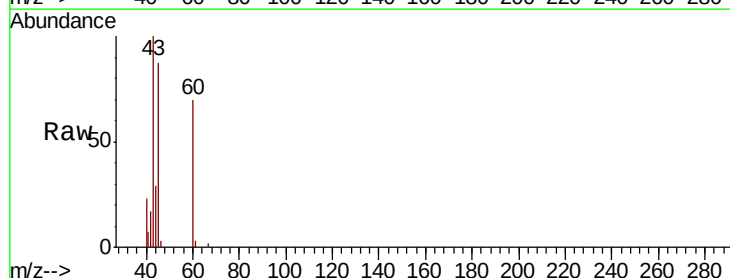
Tgt Ion: 43 Resp: 16508

Ion Ratio Lower Upper

43 100

61 0.0 24.1 36.1#

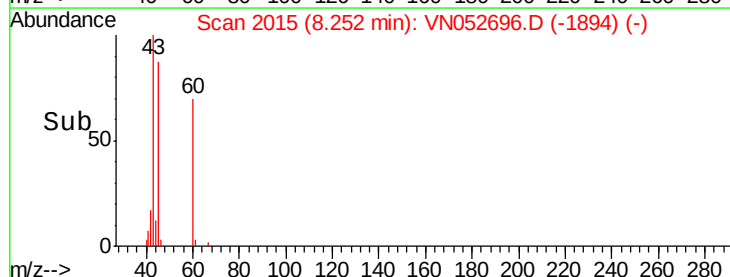
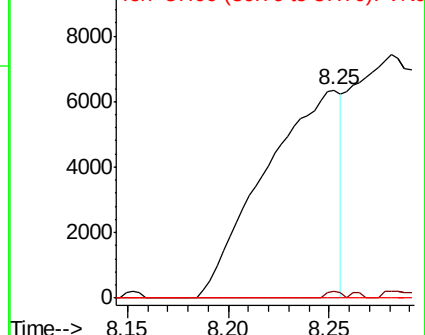
87 0.0 10.6 15.8#

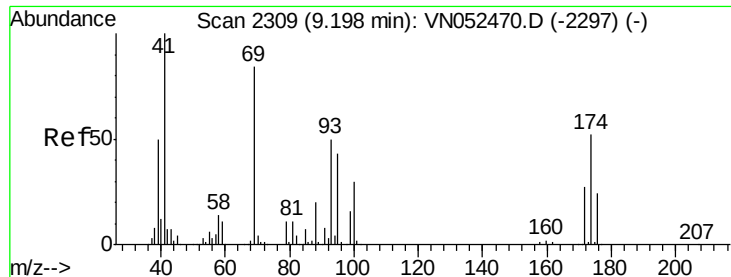


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

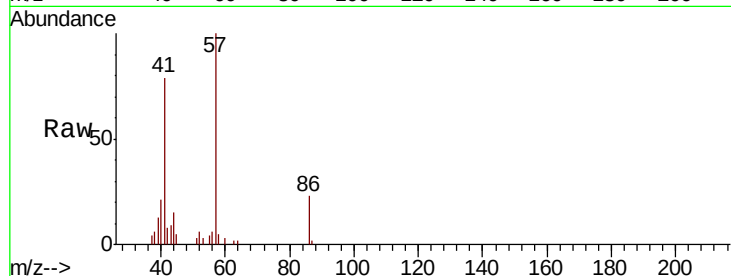




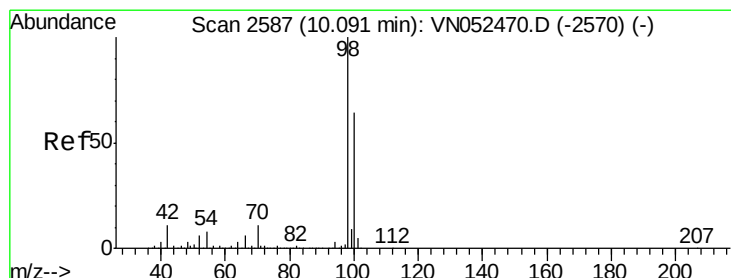
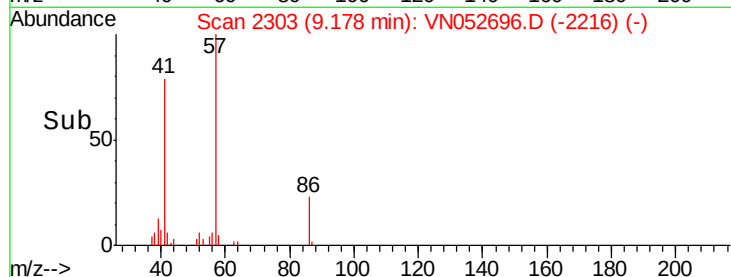
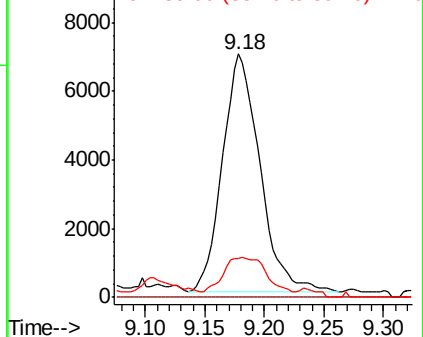
#48
Methvl methacrylate
Concen: 1.654 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052696.D
Acq: 6 Dec 2018 13:40

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 15095
Ion Ratio Lower Upper
41 100
69 0.0 70.0 105.0#
39 20.6 42.6 64.0#

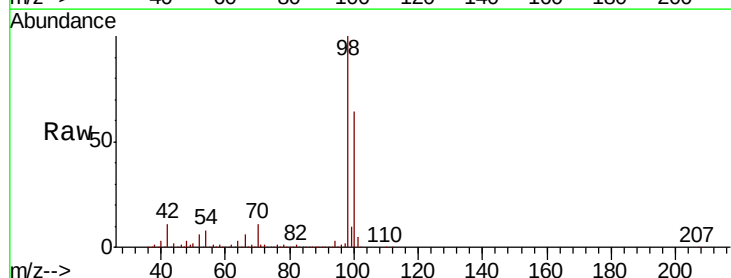


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

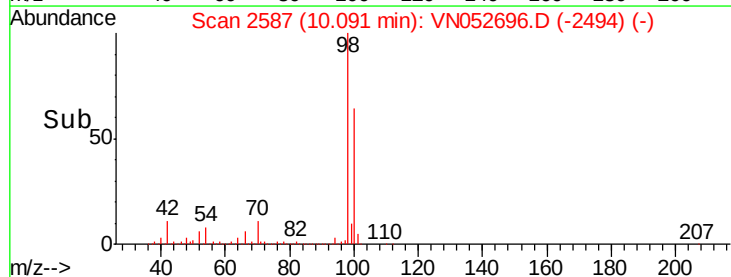
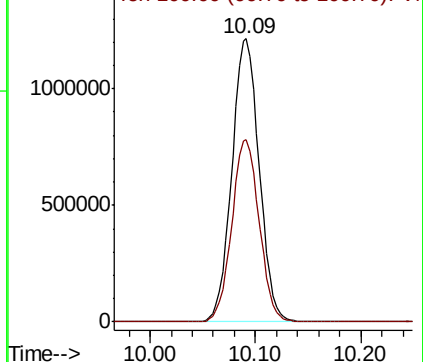


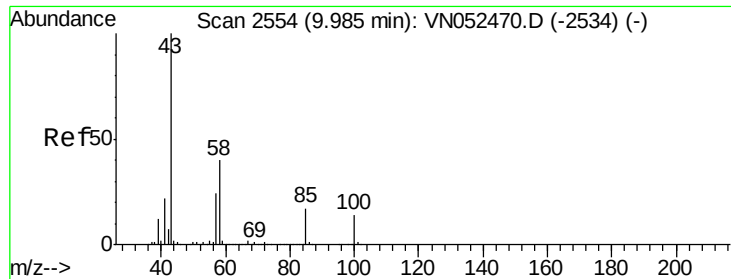
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052696.D
Acq: 6 Dec 2018 13:40

Tgt Ion: 98 Resp: 2176521
Ion Ratio Lower Upper
98 100
100 64.7 51.3 76.9



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

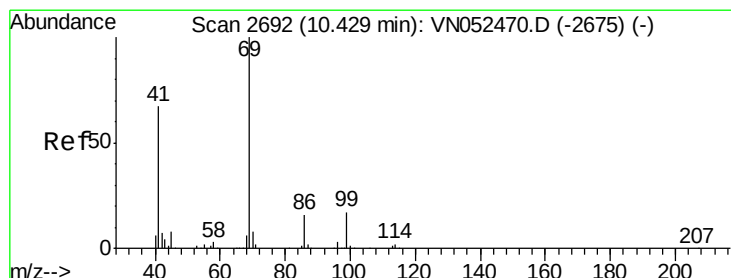
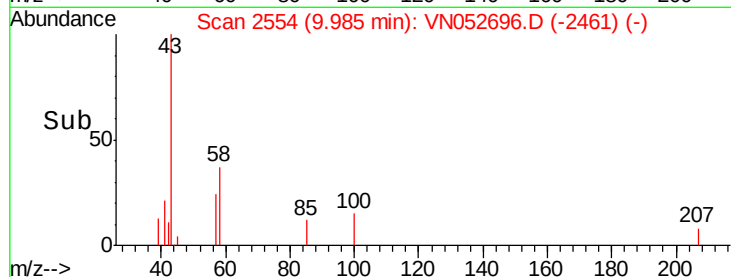
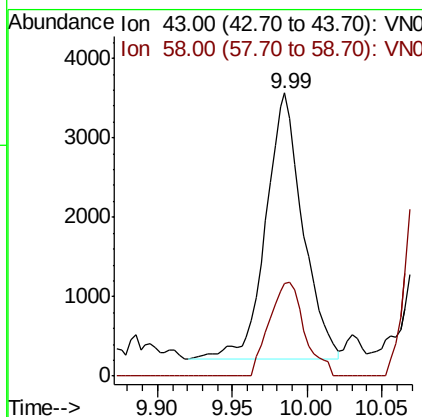
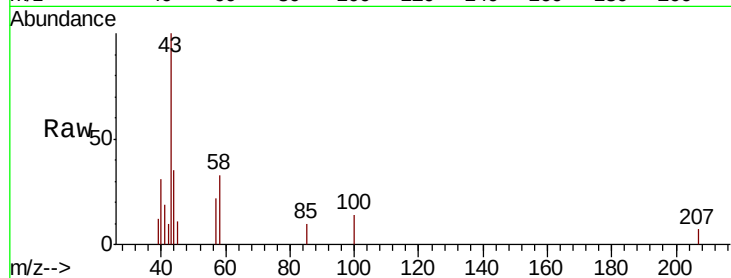




#51
4-Methyl-2-Pentanone
Concen: 0.580 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN052696.D
Acq: 6 Dec 2018 13:40

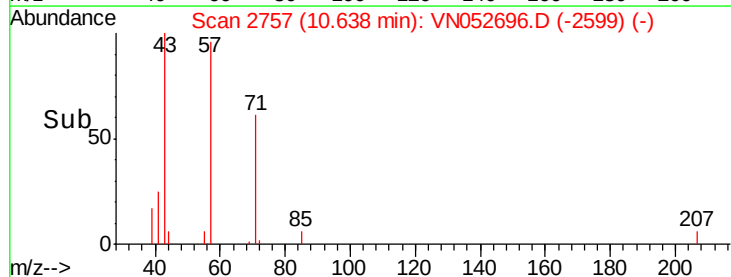
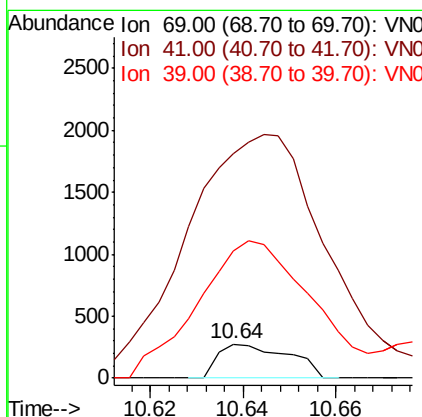
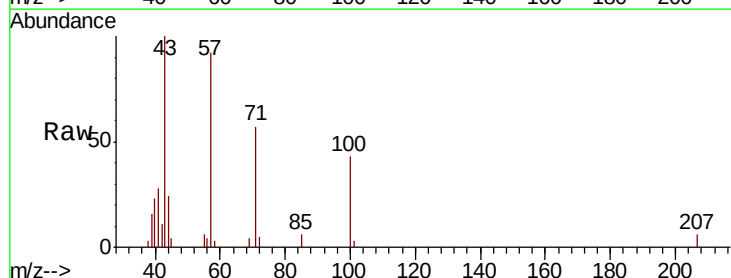
Instrument :
MSVOA_N
ClientSampled :

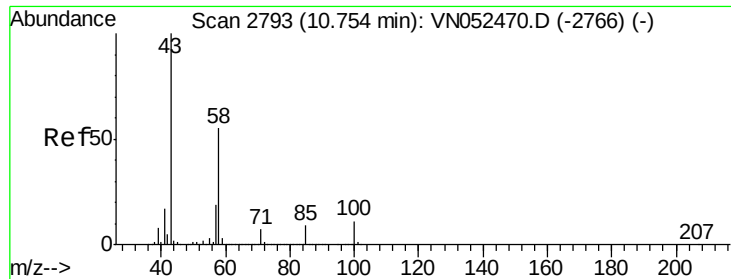
Tot Ion: 43 Resp: 5698
Ion Ratio Lower Upper
43 100
58 34.0 31.5 47.3



#56
Ethyl methacrylate
Concen: 2.712 ug/l
RT: 10.64 min Scan# 2757
Delta R.T. 0.21 min
Lab File: VN052696.D
Acq: 6 Dec 2018 13:40

Tgt Ion: 69 Resp: 289
Ion Ratio Lower Upper
69 100
41 1438.1 52.6 79.0#
39 654.3 25.9 38.9#

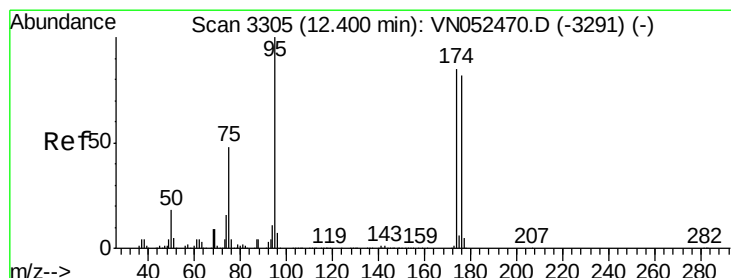
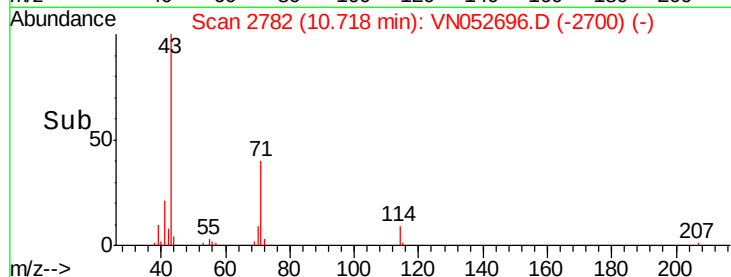
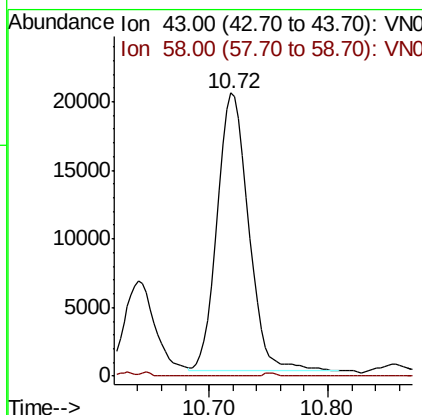
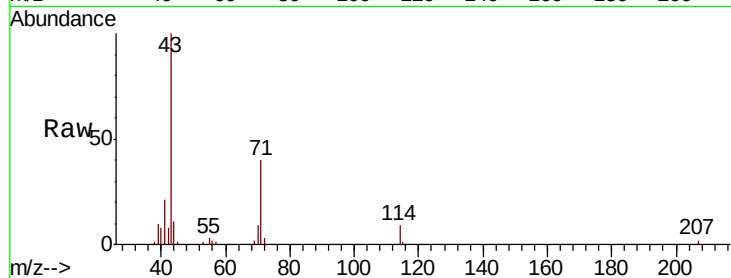




#59
2-Hexanone
Concen: 5.648 ug/l
RT: 10.72 min Scan# 2782
Delta R.T. -0.04 min
Lab File: VN052696.D
Acq: 6 Dec 2018 13:40

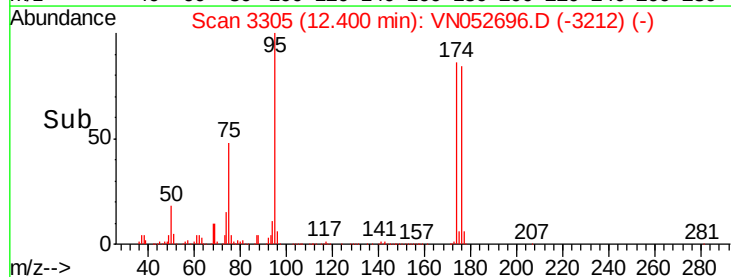
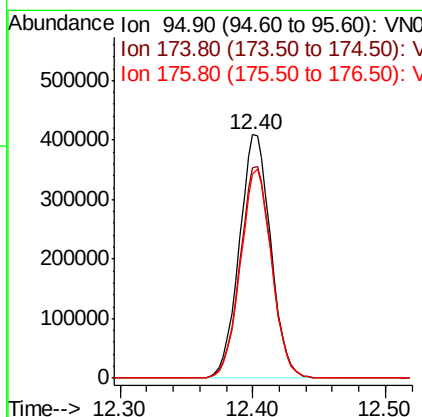
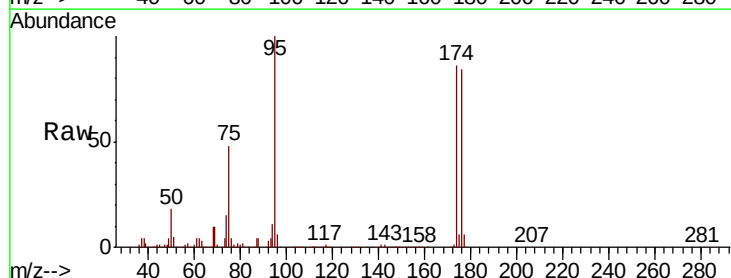
Instrument :
MSVOA_N
ClientSampleId :

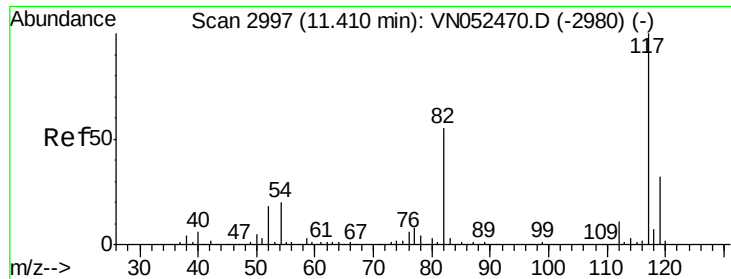
Tot Ion: 43 Resp: 37227
Ion Ratio Lower Upper
43 100
58 0.0 27.4 82.0#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052696.D
Acq: 6 Dec 2018 13:40

Tgt Ion: 95 Resp: 672285
Ion Ratio Lower Upper
95 100
174 87.7 0.0 173.0
176 85.0 0.0 166.2

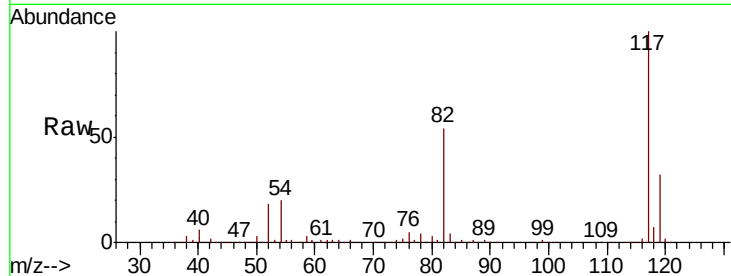




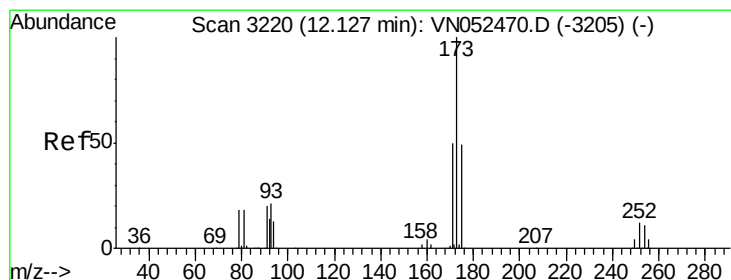
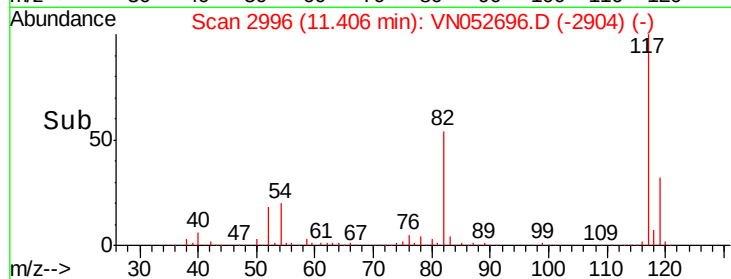
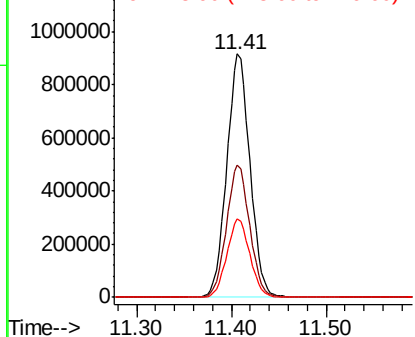
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052696.D
Acq: 6 Dec 2018 13:40

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1556923
Ion Ratio Lower Upper
117 100
82 54.3 43.6 65.4
119 32.0 25.4 38.2

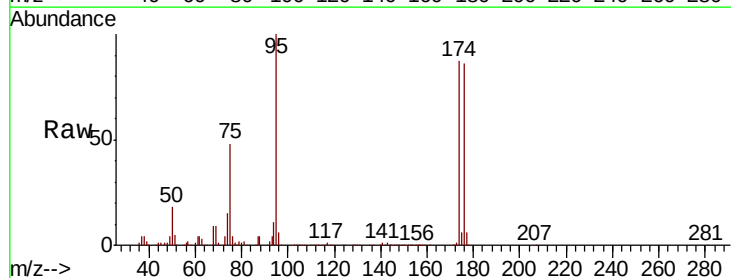


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

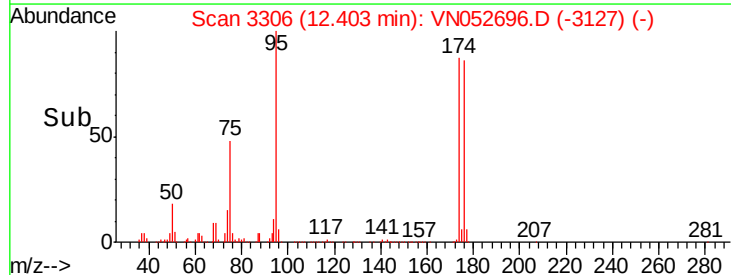
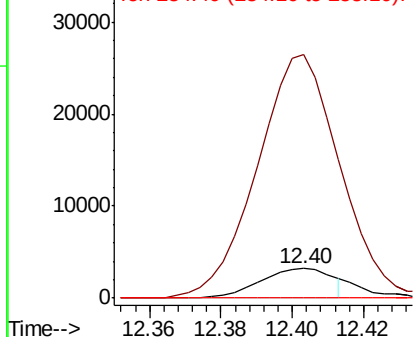


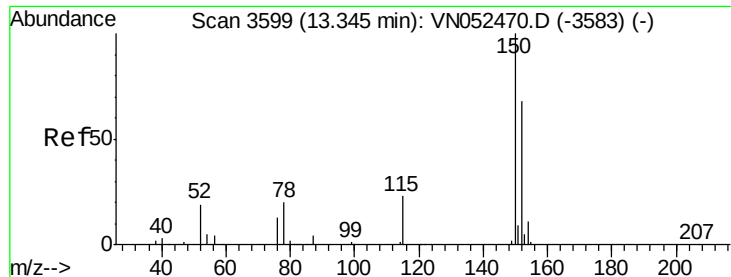
#71
Bromoform
Concen: 0.604 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052696.D
Acq: 6 Dec 2018 13:40

Tgt Ion:173 Resp: 4465
Ion Ratio Lower Upper
173 100
175 832.5 24.4 73.2#
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN052696.D

Acq: 6 Dec 2018 13:40

Instrument :

MSVOA_N

ClientSampleId :

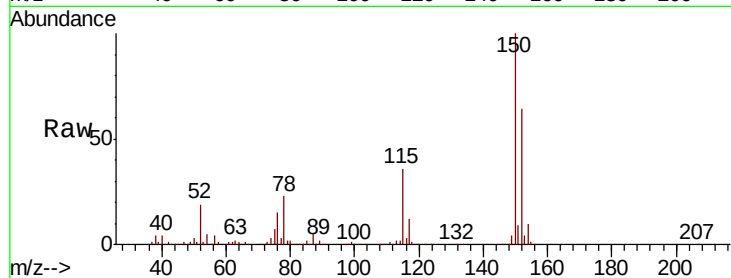
Tot Ion:152 Resp: 562129

Ion Ratio Lower Upper

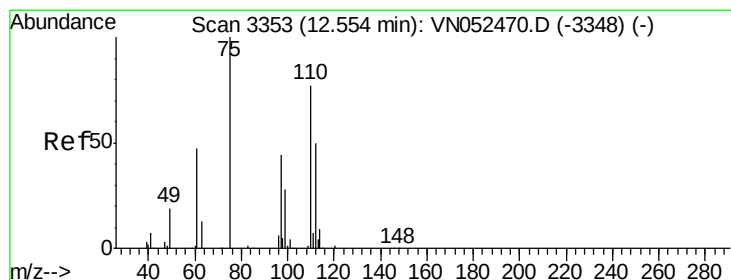
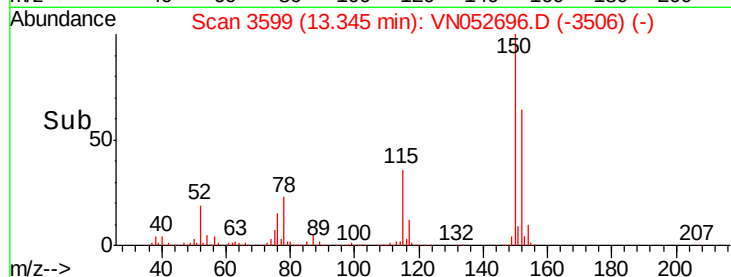
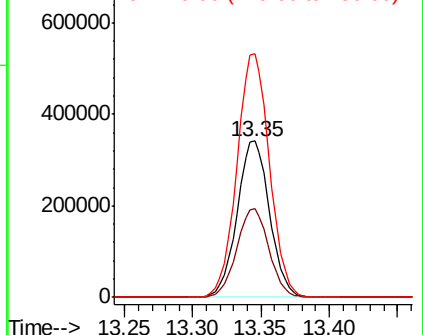
152 100

115 56.6 28.4 85.2

150 156.4 0.0 346.0



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



#76

1,2,3-Trichloropropane

Concen: 37.342 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052696.D

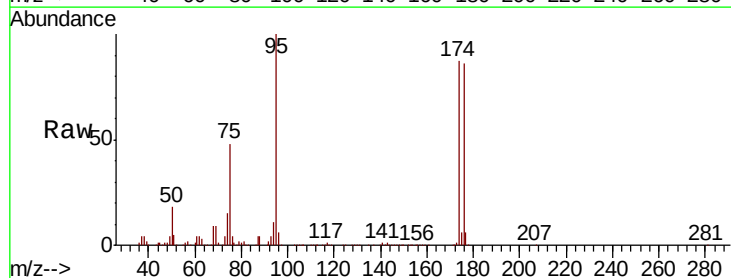
Acq: 6 Dec 2018 13:40

Tgt Ion: 75 Resp: 323697

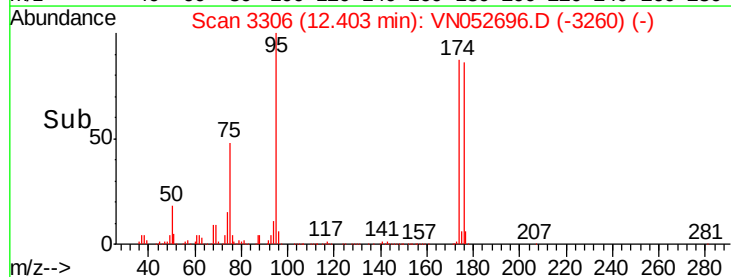
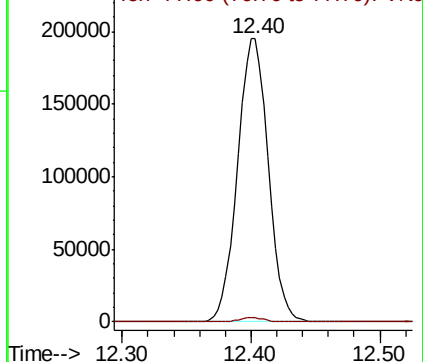
Ion Ratio Lower Upper

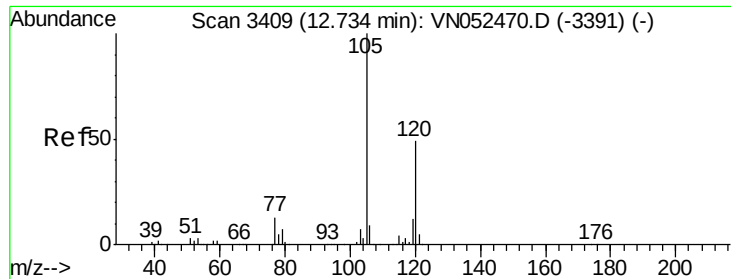
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V

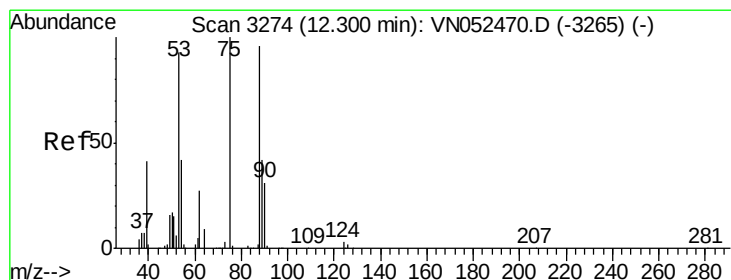
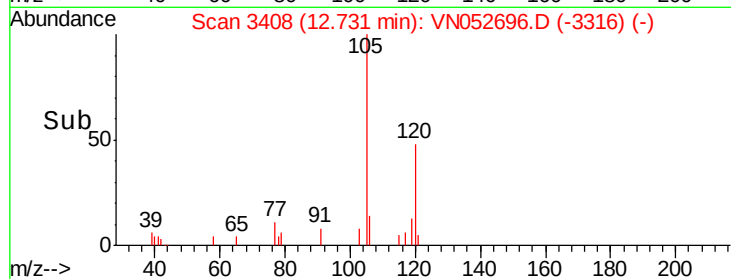
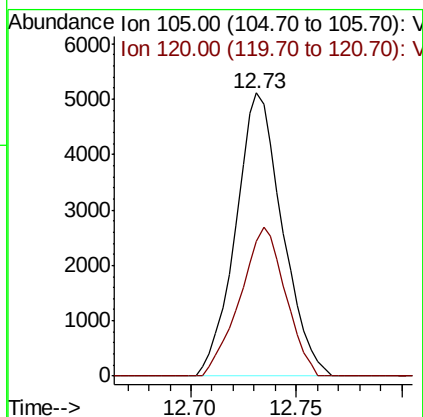
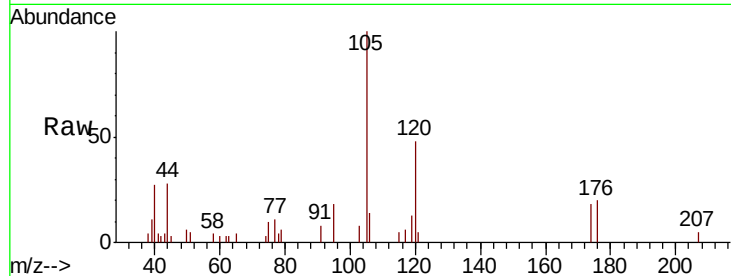




#80
 1,3,5-Trimethylbenzene
 Concen: 0.223 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN052696.D
 Acq: 6 Dec 2018 13:40

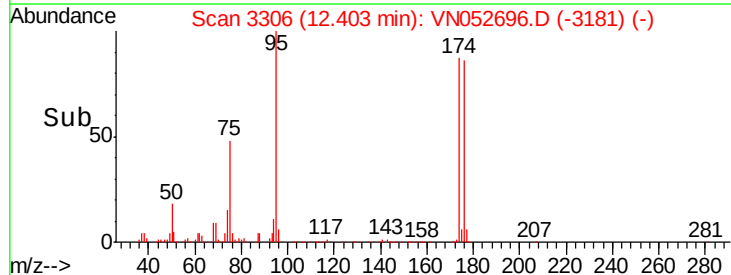
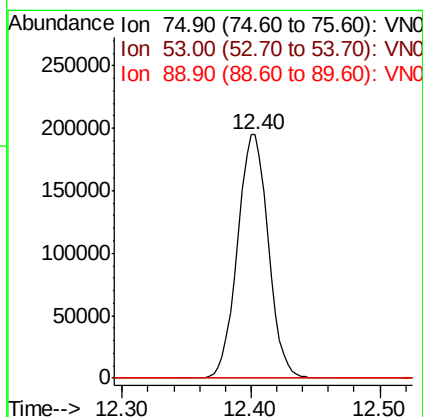
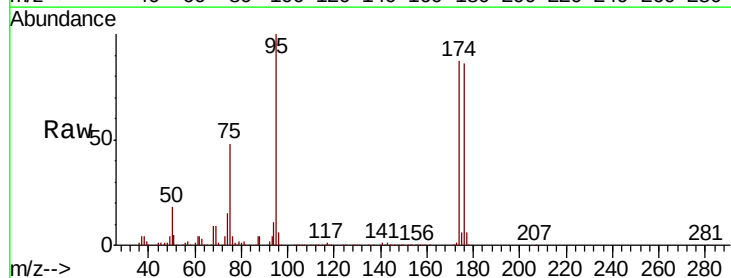
Instrument :
 MSVOA_N
 ClientSampleId :

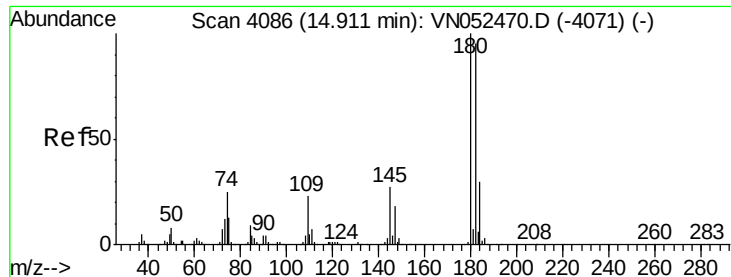
Tot Ion:105 Resp: 7856
 Ion Ratio Lower Upper
 105 100
 120 51.2 24.3 73.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 124.706 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN052696.D
 Acq: 6 Dec 2018 13:40

Tgt Ion: 75 Resp: 323697
 Ion Ratio Lower Upper
 75 100
 53 0.0 77.4 116.0#
 89 0.0 35.4 53.2#





#93

1,2,4-Trichlorobenzene

Concen: 2.832 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN052696.D

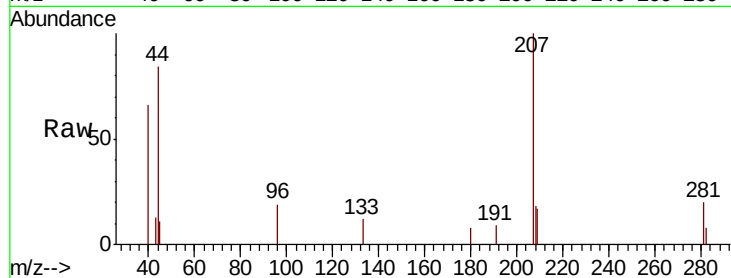
Acq: 6 Dec 2018 13:40

Instrument :

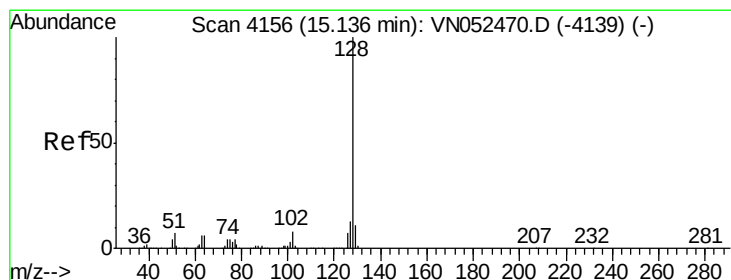
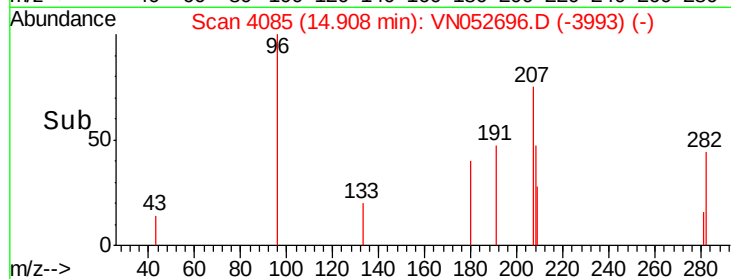
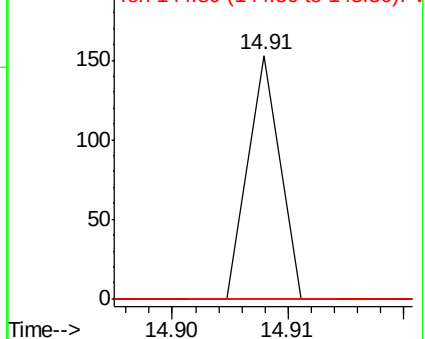
MSVOA_N

ClientSampleId :

Tot Ion:	180	Resp:	30
Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.8	143.4#
145	0.0	14.1	42.3#



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



#95

Naphthalene

Concen: 3.444 ug/l

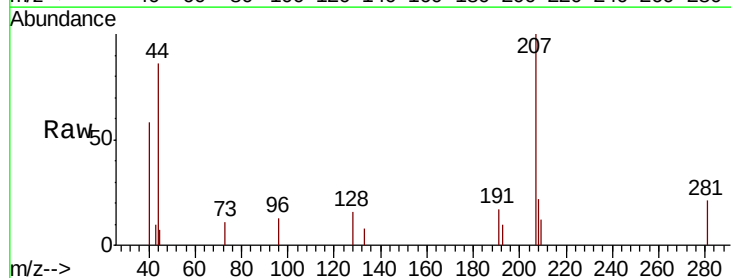
RT: 15.14 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN052696.D

Acq: 6 Dec 2018 13:40

Tgt Ion:	128	Resp:	347
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	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

