

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
 Data File : VN052886.D
 Acq On : 14 Dec 2018 13:57
 Operator : MD\SY
 Sample : J6401-03 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 15 02:53:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	159668	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	934127	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	805646	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	321485	29.55	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.50%
60) 4-Bromofluorobenzene	12.40	95	355459	28.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.20%
63) Toluene-d8	10.09	98	1075667	28.79	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.97%

Target Compounds

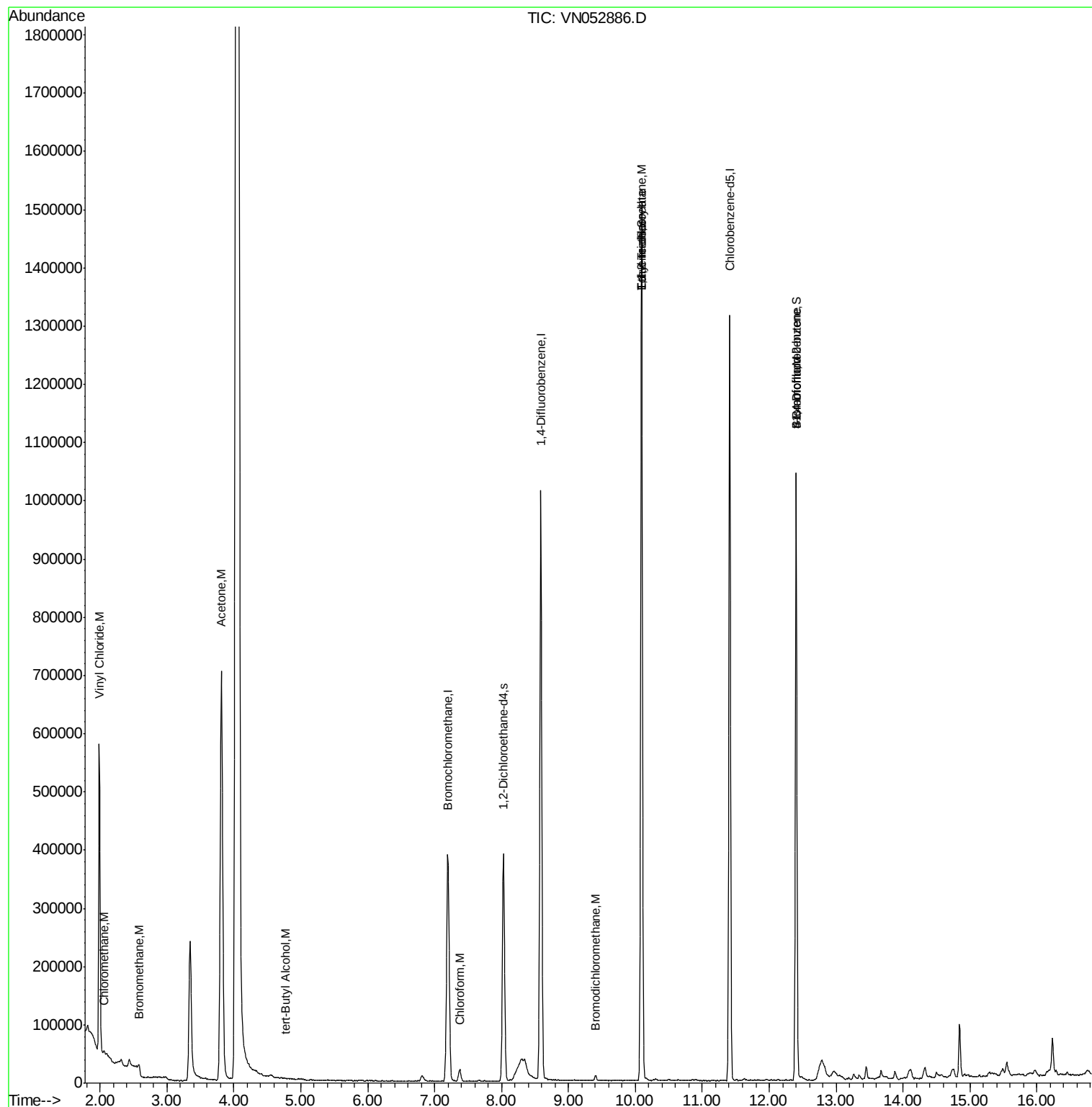
					Ovalue	
3) Chloromethane	2.06	50	2923	0.242	ug/l	96
4) Vinyl Chloride	1.99	62	6375	0.524	ug/l #	50
5) Bromomethane	2.58	94	3614	0.521	ug/l	99
15) Acetone	3.82	58	389692	464.205	ug/l	99
23) tert-Butyl Alcohol	4.78	59	176	0.365	ug/l #	100
25) Chloroform	7.38	83	22097	1.225	ug/l	99
41) Bromodichloromethane	9.40	83	6713	0.489	ug/l #	93
50) 1,1,2-Trichloroethane	10.10	97	32568	3.698	ug/l #	1
51) Ethyl methacrylate	10.10	69	3353	0.303	ug/l	73
56) Bromoform	12.40	173	2306	0.364	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.40	75	170406	62.727	ug/l #	11

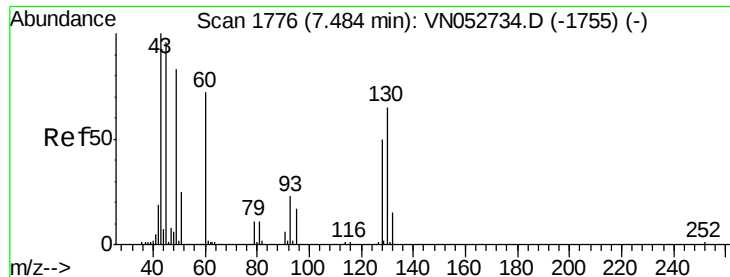
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 15 02:53:57 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 27 00:48:33 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

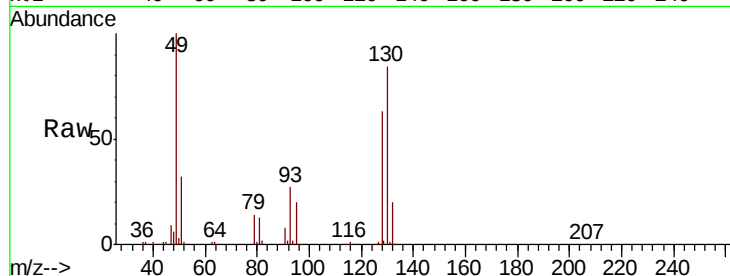
Delta R.T. 0.00 min

Lab File: VN052886.D

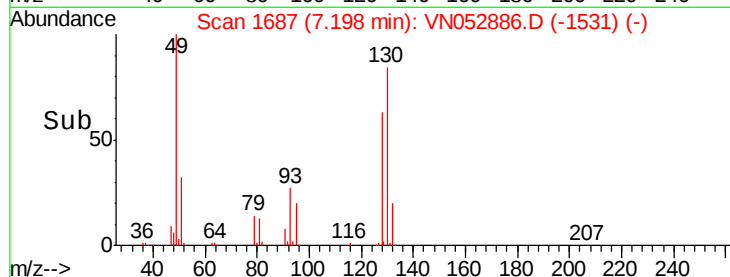
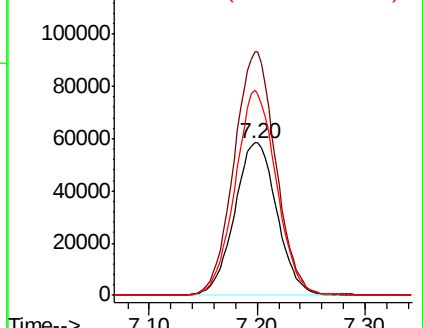
Acq: 14 Dec 2018 13:57

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	128	Resp:	159668
Ion	Ratio	Lower	Upper
128	100		
49	157.2	0.0	431.8
130	131.0	0.0	317.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VNO
Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.242 ug/l

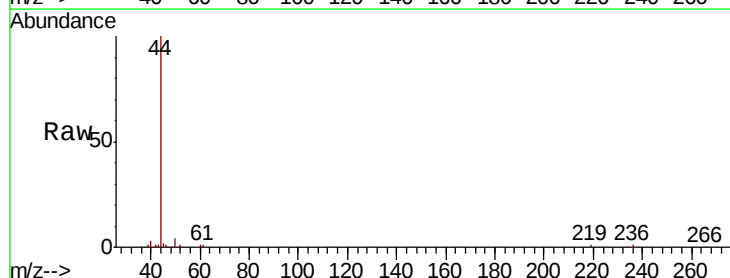
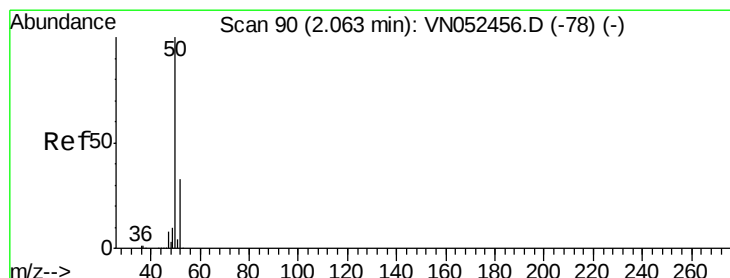
RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

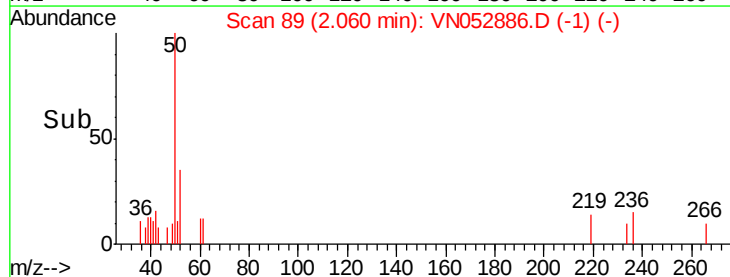
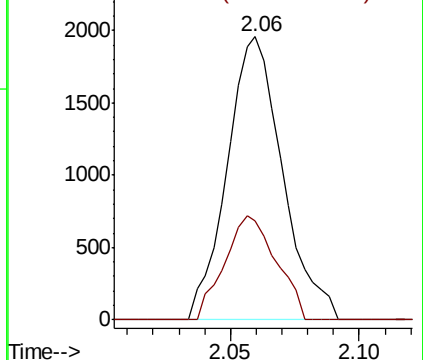
Lab File: VN052886.D

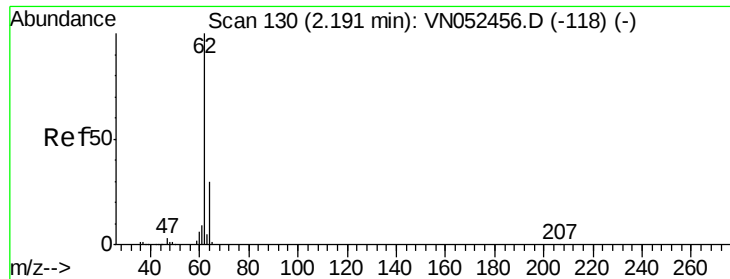
Acq: 14 Dec 2018 13:57

Tgt Ion:	50	Resp:	2923
Ion	Ratio	Lower	Upper
50	100		
52	35.2	26.5	39.7



Abundance Ion 50.00 (49.70 to 50.70): VNO
Ion 52.00 (51.70 to 52.70): VNO





#4

Vinyl Chloride

Concen: 0.524 ug/l

RT: 1.99 min Scan# 67

Delta R.T. -0.20 min

Lab File: VN052886.D

Acq: 14 Dec 2018 13:57

Instrument :

MSVOA_N

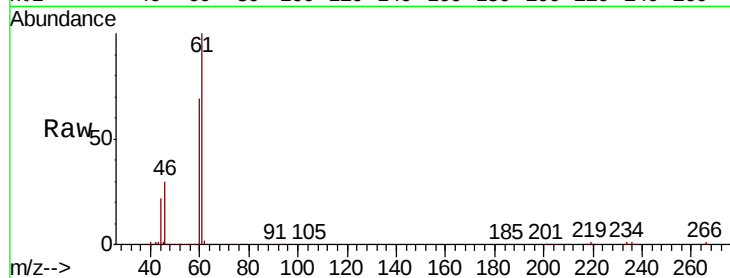
ClientSampled :

Tot Ion: 62 Resp: 6375

Ion Ratio Lower Upper

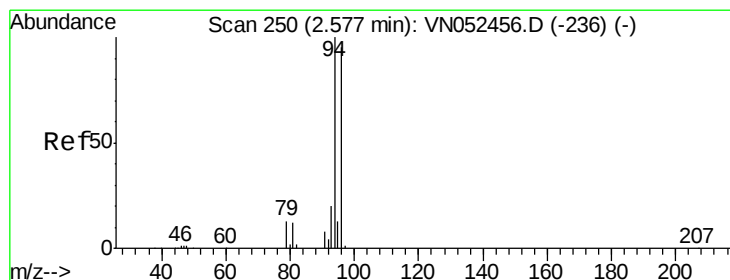
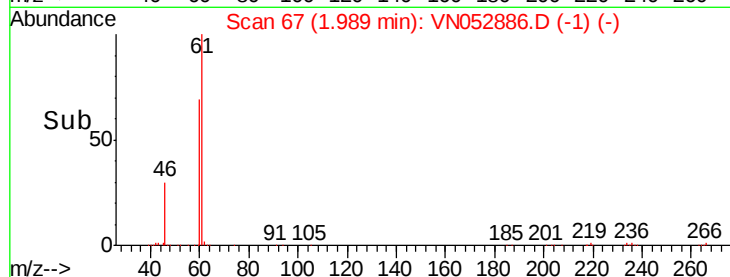
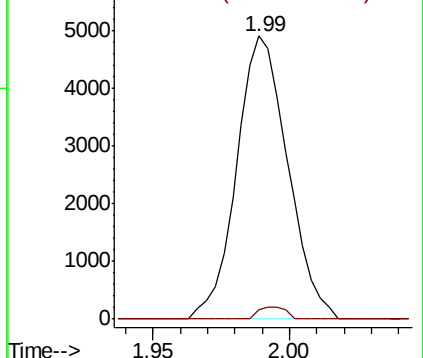
62 100

64 3.1 24.2 36.4#



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0



#5

Bromomethane

Concen: 0.521 ug/l

RT: 2.58 min Scan# 251

Delta R.T. 0.00 min

Lab File: VN052886.D

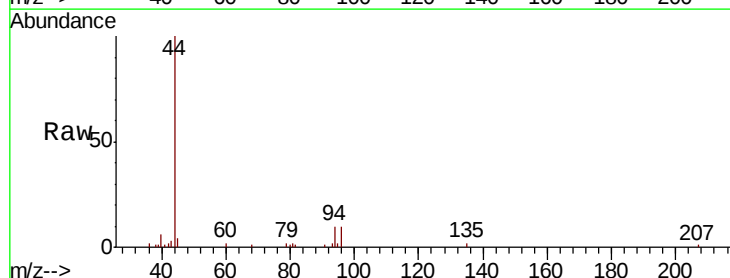
Acq: 14 Dec 2018 13:57

Tgt Ion: 94 Resp: 3614

Ion Ratio Lower Upper

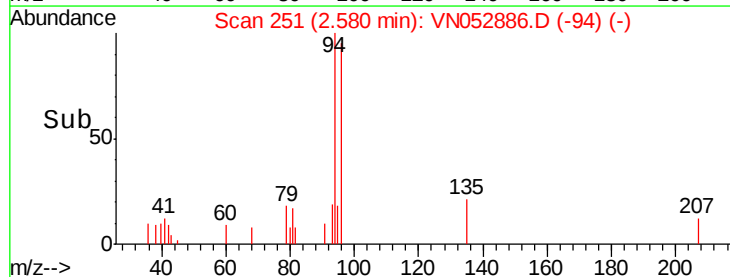
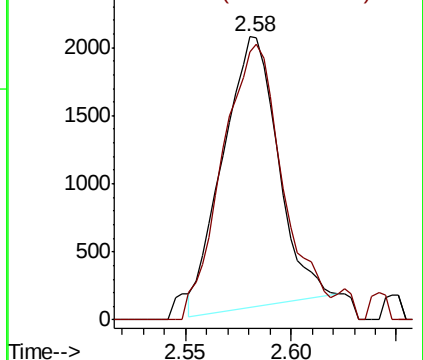
94 100

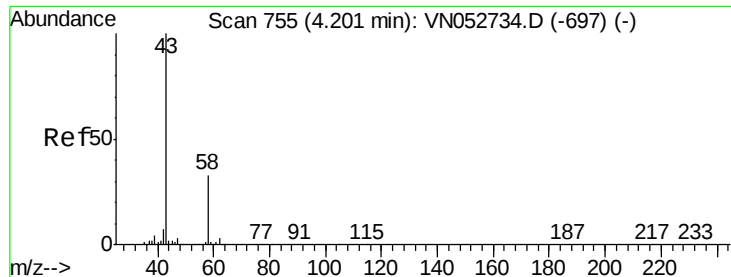
96 94.2 76.2 114.2



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0





#15

Acetone

Concen: 464.205 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052886.D

Acq: 14 Dec 2018 13:57

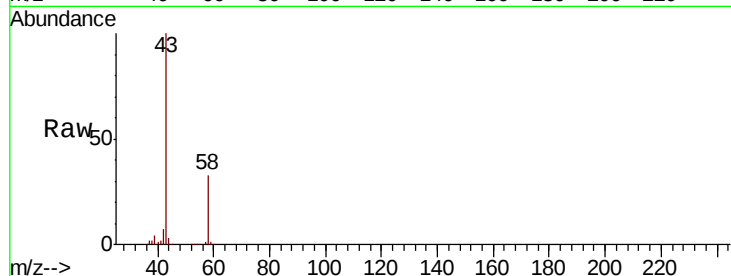
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 58 Resp: 389692

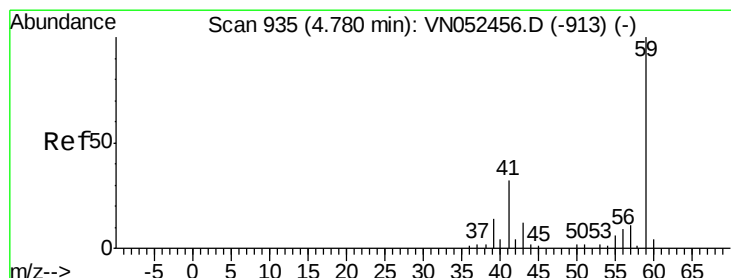
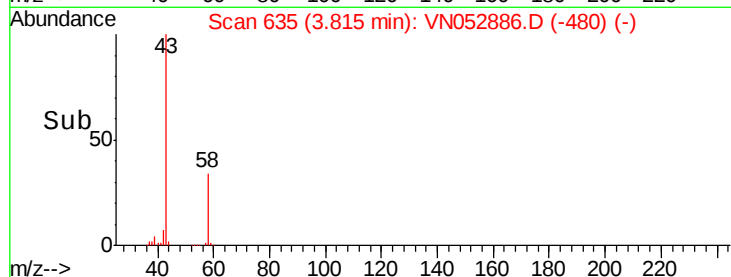
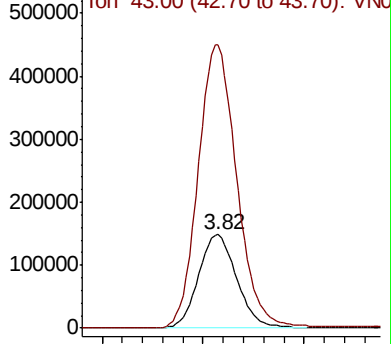
Ion Ratio Lower Upper

58 100

43 302.2 243.6 365.4



Abundance Ion 58.00 (57.70 to 58.70): VN052886.D (-697) (-)



#23

tert-Butyl Alcohol

Concen: 0.365 ug/l

RT: 4.78 min Scan# 934

Delta R.T. -0.00 min

Lab File: VN052886.D

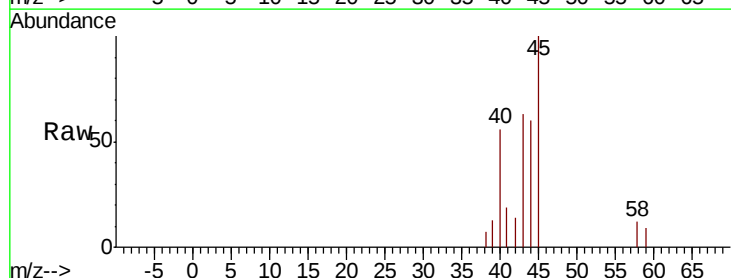
Acq: 14 Dec 2018 13:57

Tgt Ion: 59 Resp: 176

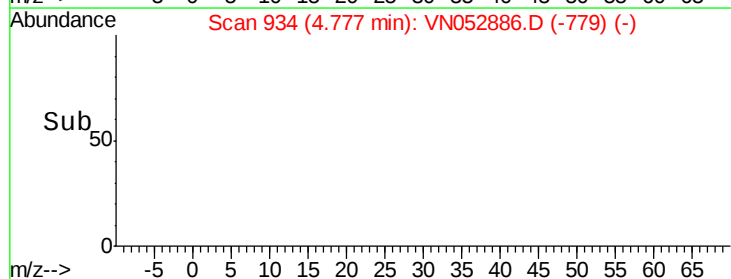
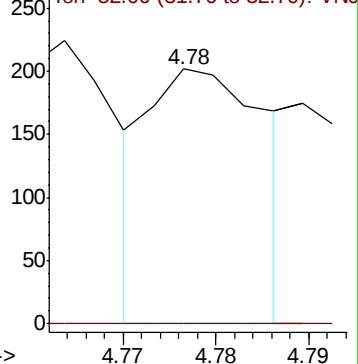
Ion Ratio Lower Upper

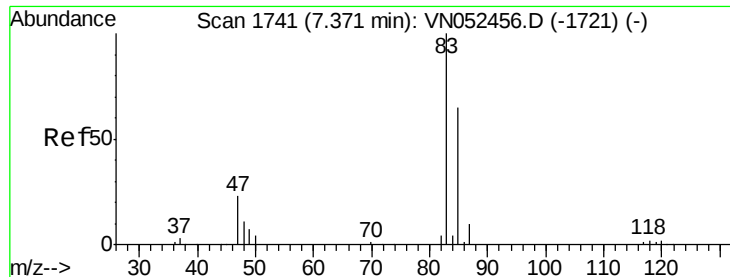
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN052886.D (-913) (-)

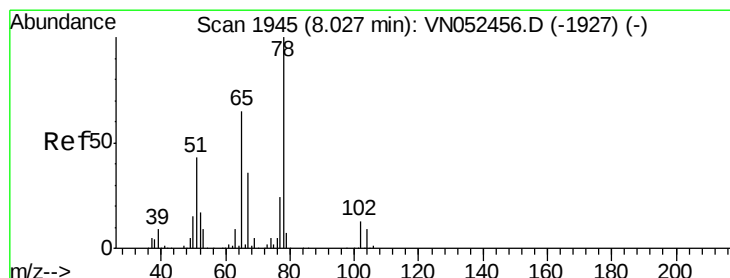
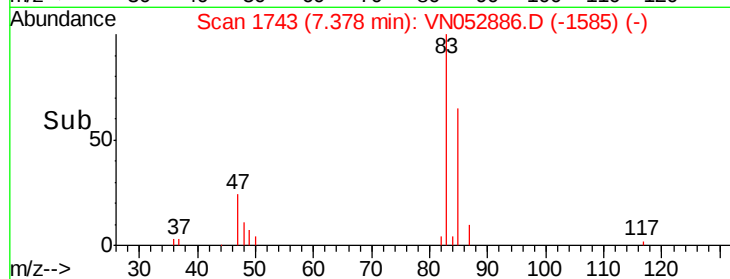
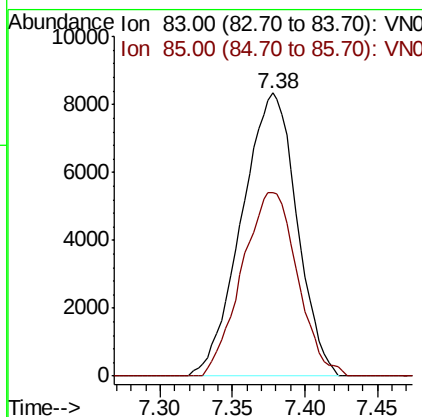
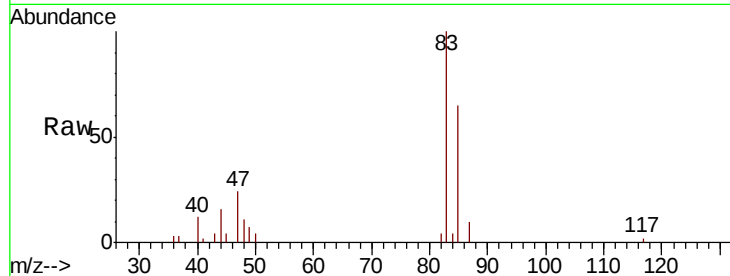




#25
Chloroform
Concen: 1.225 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.01 min
Lab File: VN052886.D
Acq: 14 Dec 2018 13:57

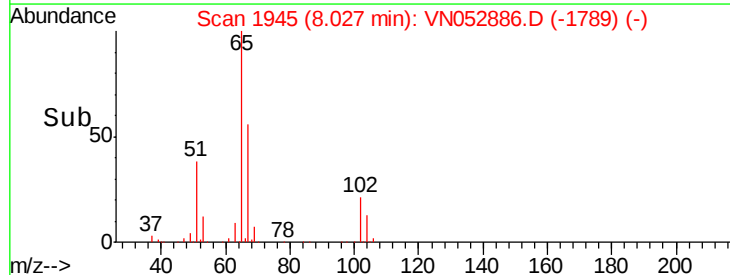
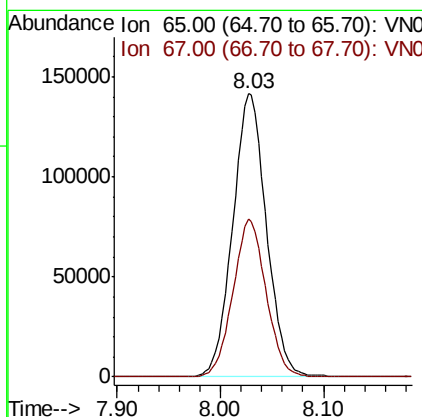
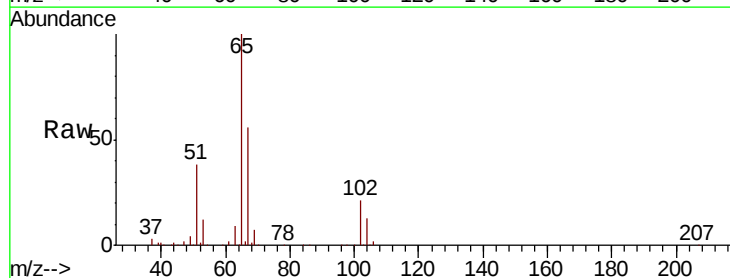
Instrument :
MSVOA_N
ClientSampled :

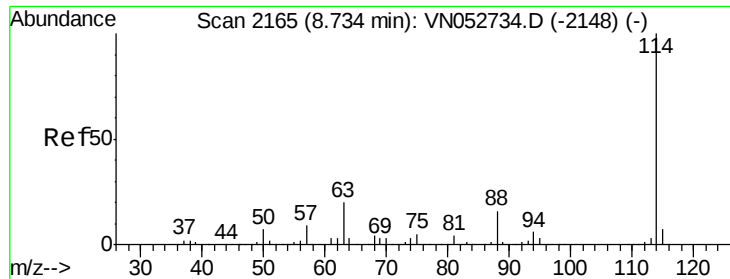
Tot Ion: 83 Resp: 22097
Ion Ratio Lower Upper
83 100
85 65.0 51.7 77.5



#27
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052886.D
Acq: 14 Dec 2018 13:57

Tgt Ion: 65 Resp: 321485
Ion Ratio Lower Upper
65 100
67 54.8 44.6 66.8

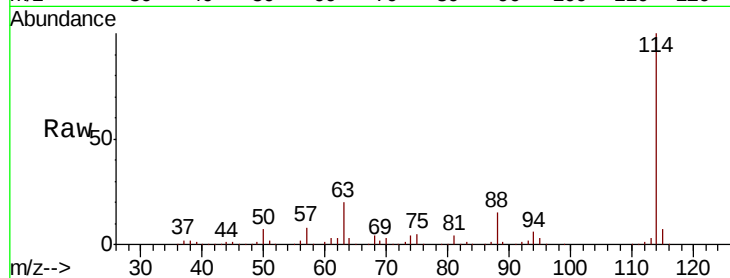




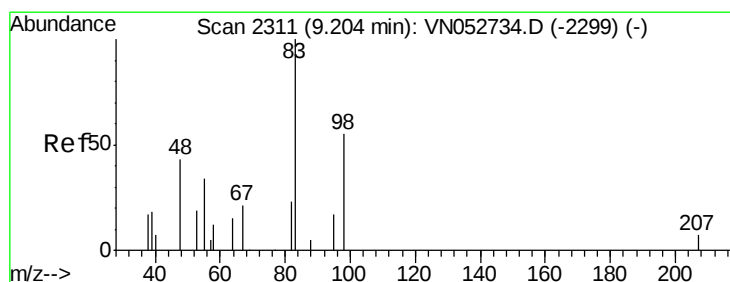
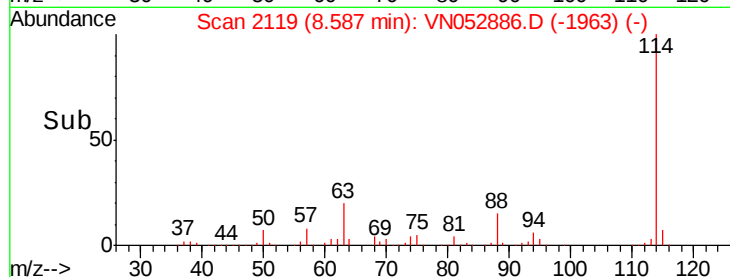
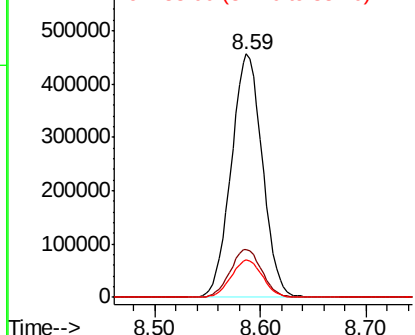
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052886.D
 Acq: 14 Dec 2018 13:57

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 934127
 Ion Ratio Lower Upper
 114 100
 63 19.9 16.9 25.3
 88 15.4 12.8 19.2

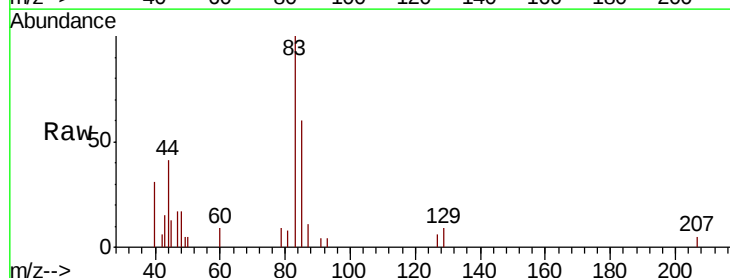


Abundance Ion 114.00 (113.70 to 114.70): VN052734.D (-2148) (-)
 Ion 63.00 (62.70 to 63.70): VN052734.D (-2148) (-)
 Ion 88.00 (87.70 to 88.70): VN052734.D (-2148) (-)

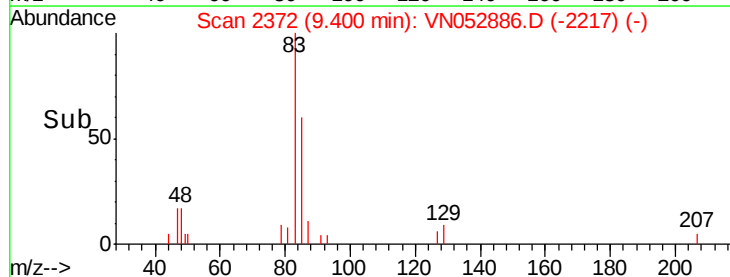
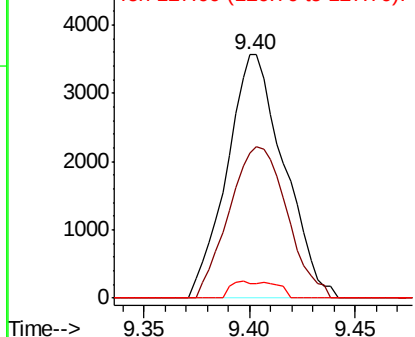


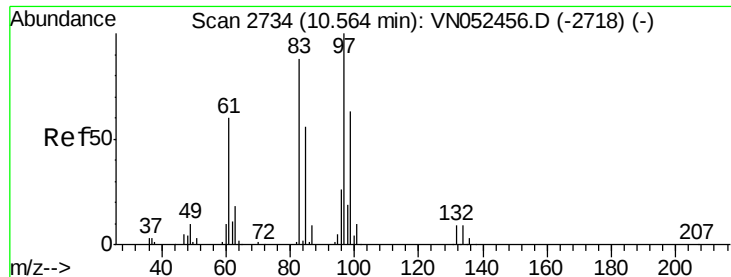
#41
 Bromodichloromethane
 Concen: 0.489 ug/l
 RT: 9.40 min Scan# 2372
 Delta R.T. -0.00 min
 Lab File: VN052886.D
 Acq: 14 Dec 2018 13:57

Tgt Ion: 83 Resp: 6713
 Ion Ratio Lower Upper
 83 100
 85 59.6 52.4 78.6
 127 6.0 6.6 9.8#



Abundance Ion 83.00 (82.70 to 83.70): VN052734.D (-2299) (-)
 Ion 85.00 (84.70 to 85.70): VN052734.D (-2299) (-)
 Ion 127.00 (126.70 to 127.70): VN052734.D (-2299) (-)

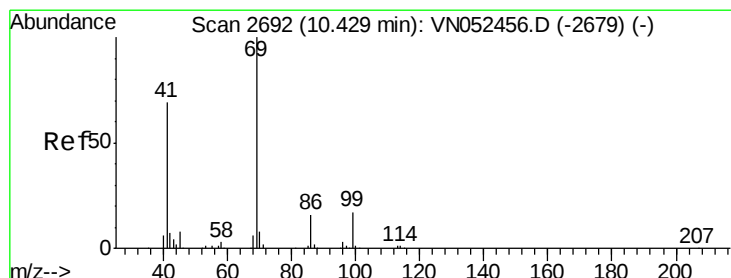
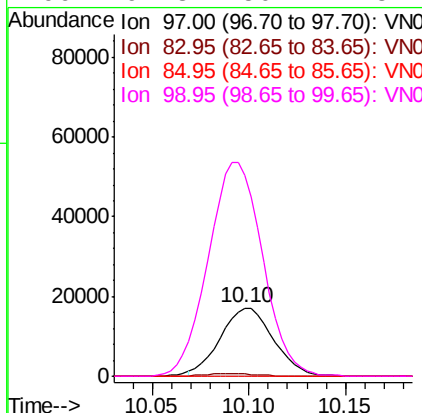
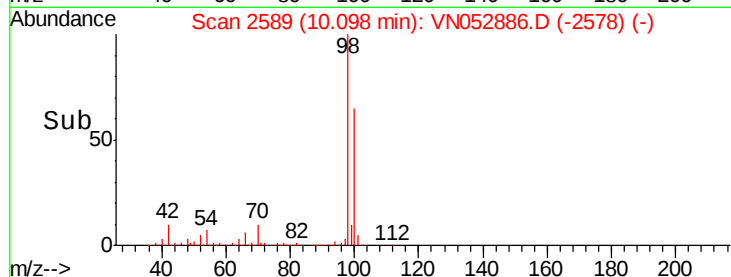
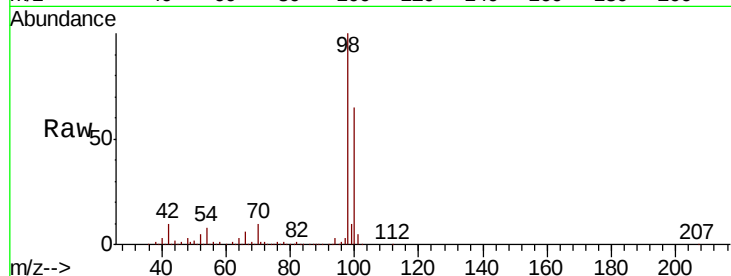




#50
 1,1,2-Trichloroethane
 Concen: 3.698 ug/l
 RT: 10.10 min Scan# 2589
 Delta R.T. -0.47 min
 Lab File: VN052886.D
 Acq: 14 Dec 2018 13:57

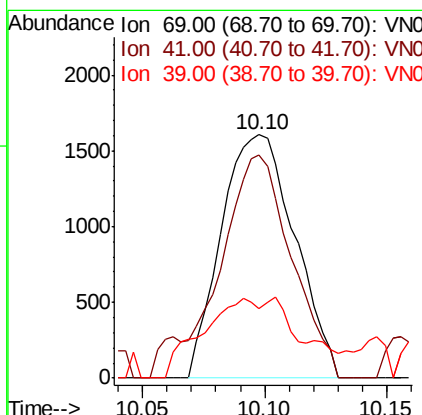
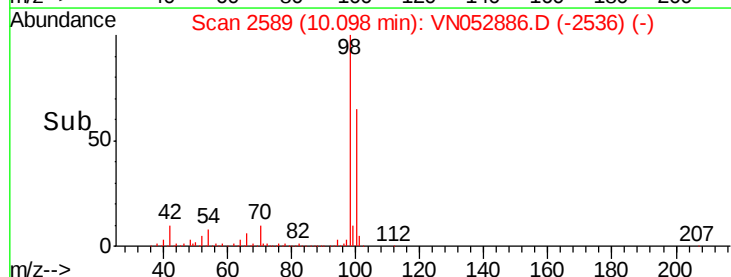
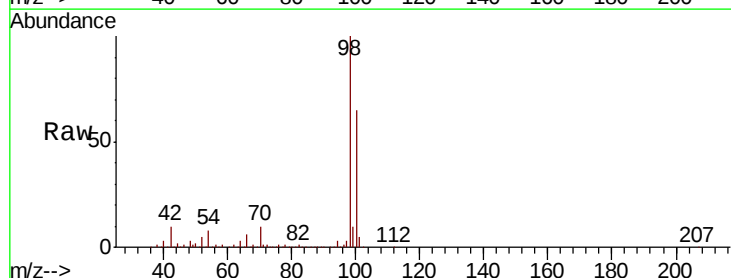
Instrument :
 MSVOA_N
 ClientSampleId :

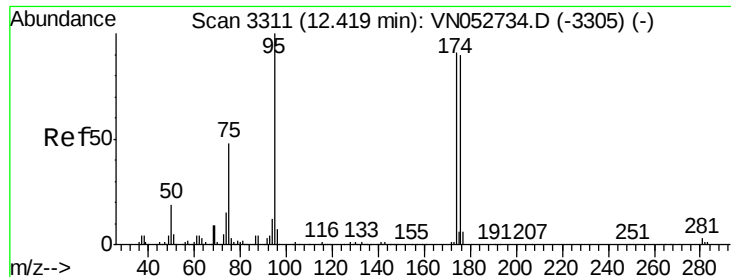
Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	2.9	70.4	105.6#	
85	0.0	45.0	67.6#	
99	294.3	50.2	75.2#	



#51
 Ethyl methacrylate
 Concen: 0.303 ug/l
 RT: 10.10 min Scan# 2589
 Delta R.T. -0.33 min
 Lab File: VN052886.D
 Acq: 14 Dec 2018 13:57

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	91.8	34.4	103.3	
39	18.1	16.4	49.2	

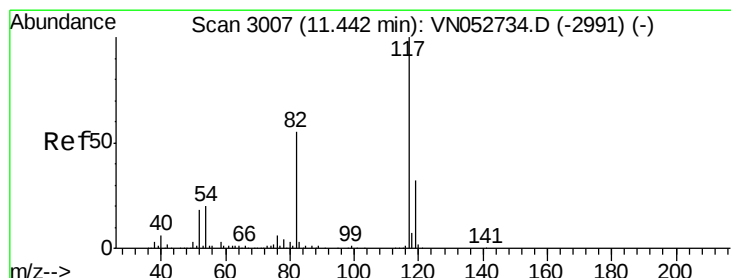
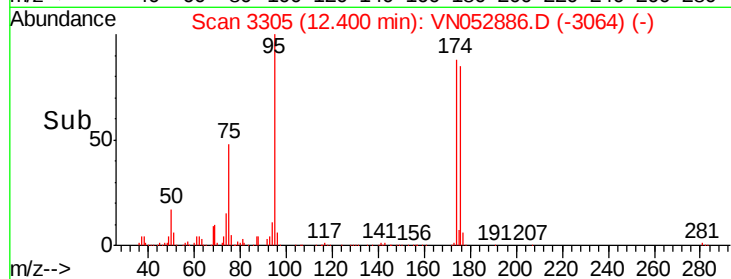
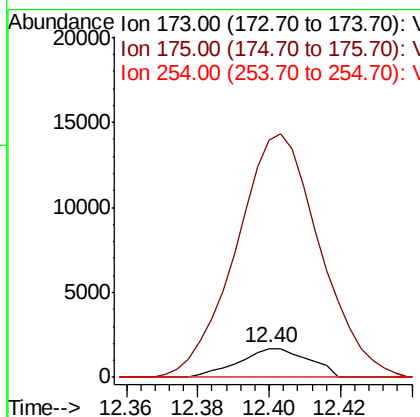
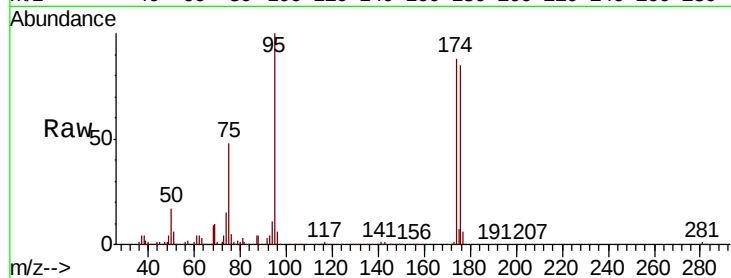




#56
Bromoform
Concen: 0.364 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN052886.D
Acq: 14 Dec 2018 13:57

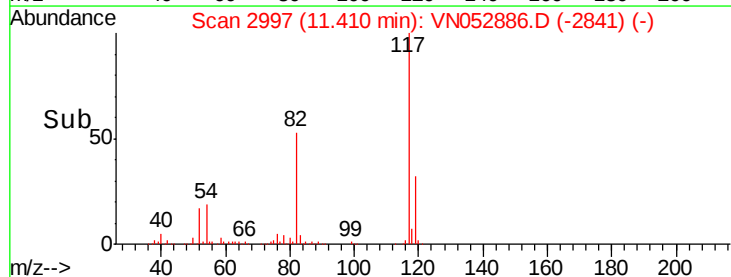
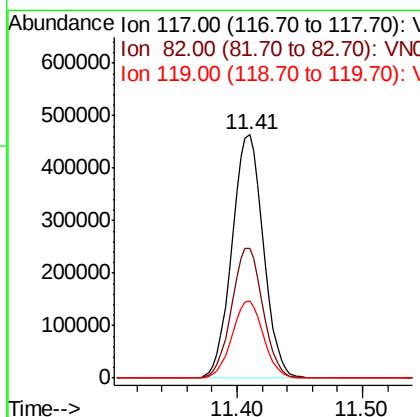
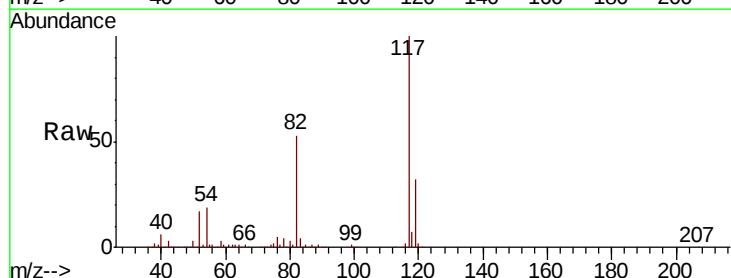
Instrument :
MSVOA_N
ClientSampleId :

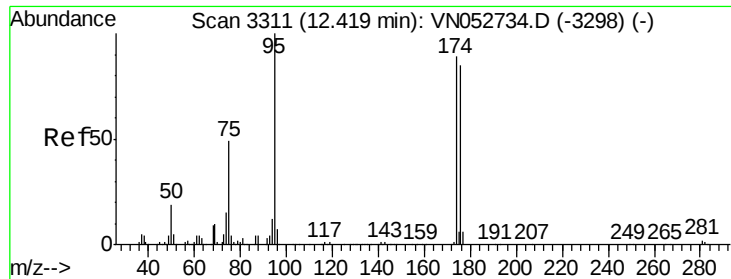
Tot Ion:173 Resp: 2306
Ion Ratio Lower Upper
173 100
175 1008.6 38.7 58.1#
254 0.0 8.4 12.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052886.D
Acq: 14 Dec 2018 13:57

Tgt Ion:117 Resp: 805646
Ion Ratio Lower Upper
117 100
82 53.2 44.2 66.2
119 31.8 25.4 38.2





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052886.D

Acq: 14 Dec 2018 13:57

Instrument :

MSVOA_N

ClientSampleId :

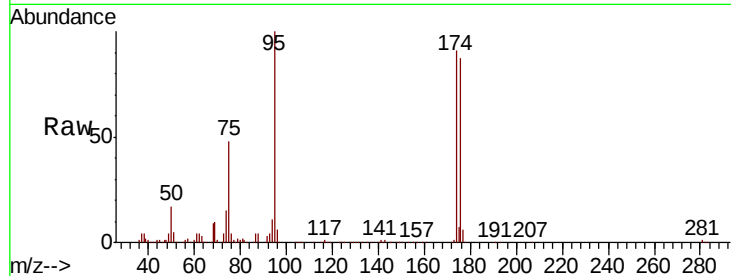
Tot Ion: 95 Resp: 355459

Ion Ratio Lower Upper

95 100

174 89.8 67.9 101.9

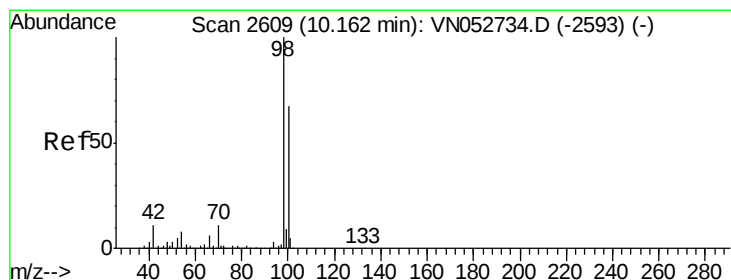
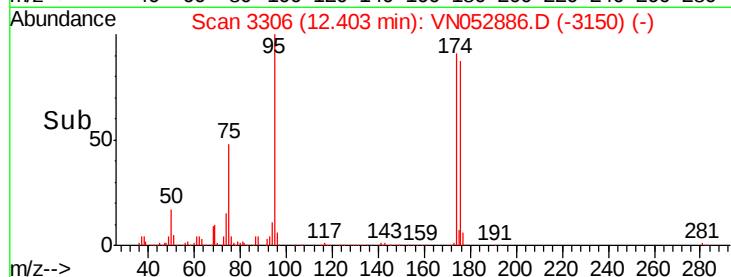
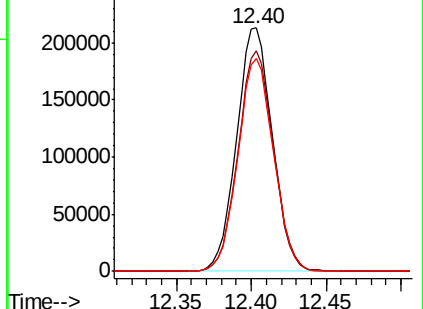
176 86.7 66.4 99.6



Abundance Ion 95.00 (94.70 to 95.70): VN052734.D (-3298) (-)

Ion 174.00 (173.70 to 174.70): VN052734.D (-3298) (-)

Ion 176.00 (175.70 to 176.70): VN052734.D (-3298) (-)



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052886.D

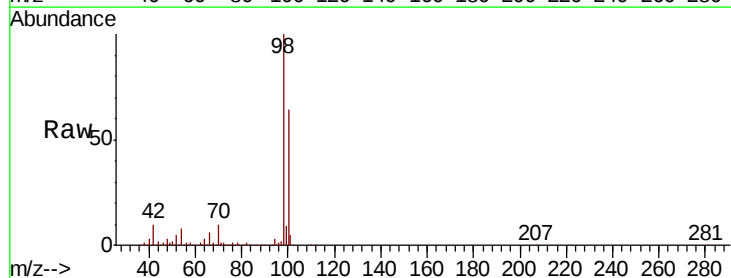
Acq: 14 Dec 2018 13:57

Tgt Ion: 98 Resp: 1075667

Ion Ratio Lower Upper

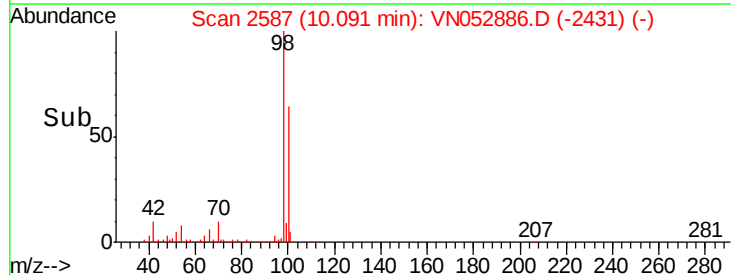
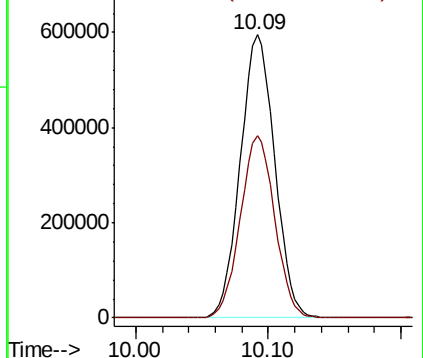
98 100

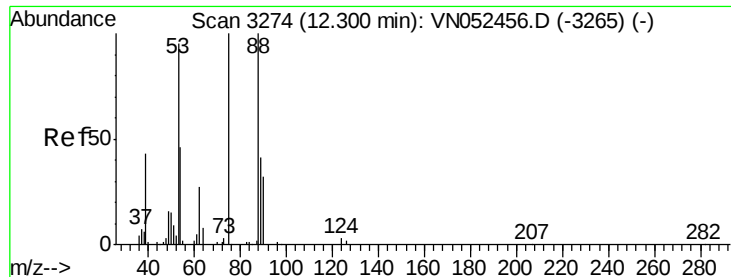
100 64.3 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN052734.D (-2593) (-)

Ion 100.00 (99.70 to 100.70): VN052734.D (-2593) (-)





#77
 t-1,4-Dichloro-2-butene
 Concen: 62.727 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN052886.D
 Acq: 14 Dec 2018 13:57

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	48.5	145.6#
89	0.0	21.7	65.1#

