

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
 Data File : VN052904.D
 Acq On : 14 Dec 2018 22:12
 Operator : MD\SY
 Sample : J6403-40
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 15 03:02:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1398488	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2150359	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1849381	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	687319	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	705447	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	
35) Dibromofluoromethane	7.59	113	563802	46.97	ug/l	0.00
Spiked Amount			Recovery	=	93.94%	
50) Toluene-d8	10.09	98	2597001	49.90	ug/l	0.00
Spiked Amount			Recovery	=	99.80%	
62) 4-Bromofluorobenzene	12.40	95	796975	45.19	ug/l	0.00
Spiked Amount			Recovery	=	90.38%	

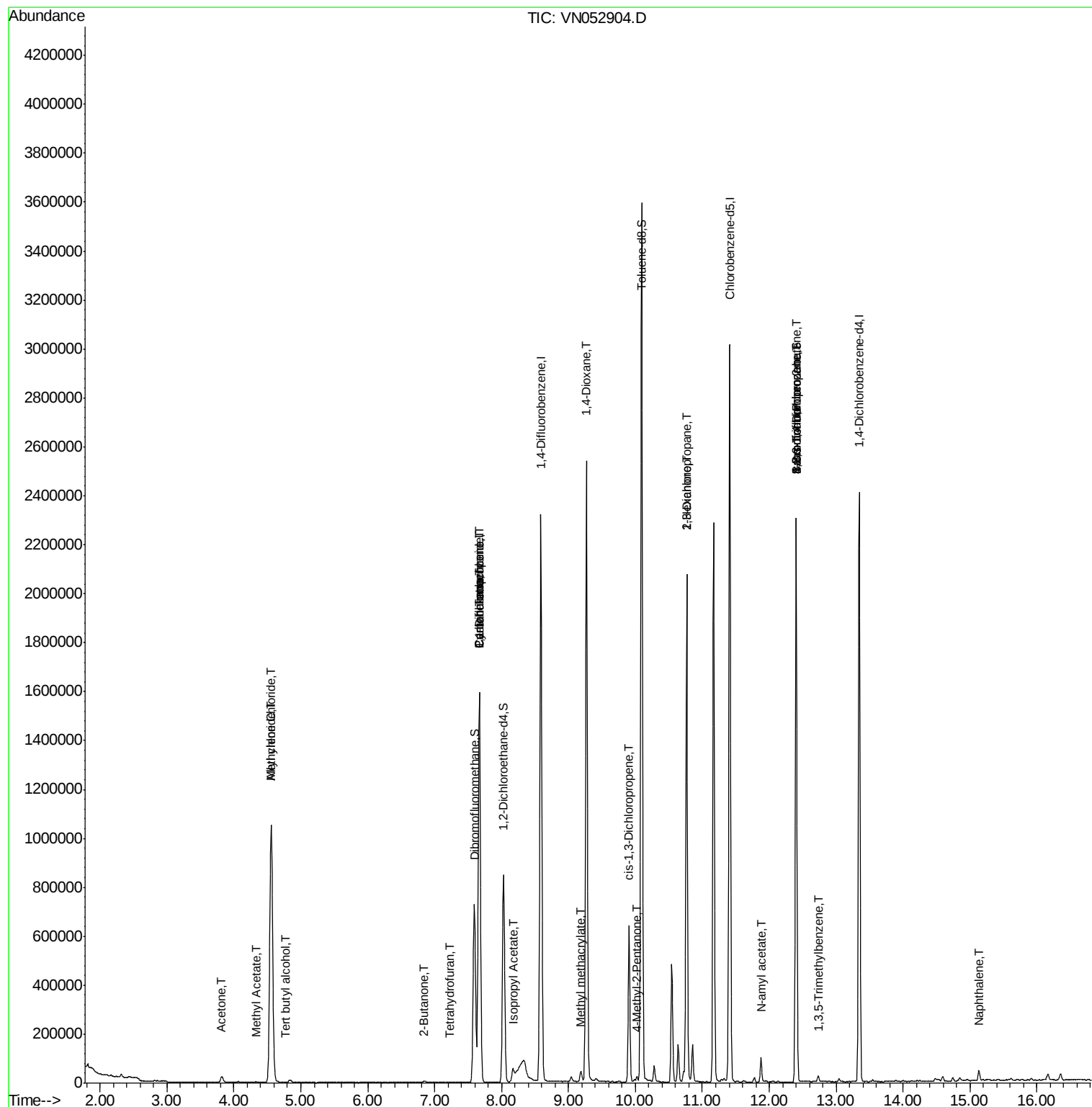
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	744	0.895	ug/l #	74
14) Allyl chloride	4.55	41	30325	1.444	ug/l #	24
16) Acetone	3.82	43	41002	12.277	ug/l	100
18) Methyl Acetate	4.33	43	2775	0.226	ug/l #	74
20) Methylene Chloride	4.56	84	824070	54.831	ug/l	98
25) 2-Butanone	6.84	43	6581	1.270	ug/l	98
29) Tetrahydrofuran	7.22	42	1914	0.541	ug/l #	48
31) Cyclohexane	7.67	56	23280	0.348	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	93409	4.717	ug/l #	49
38) Carbon Tetrachloride	7.67	117	120603	6.617	ug/l #	16
43) Isopropyl Acetate	8.17	43	65538	2.687	ug/l #	80
48) Methyl methacrylate	9.18	41	14381	1.345	ug/l #	12
49) 1,4-Dioxane	9.27	88	307	2.529	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	20287	1.814	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	119891	5.341	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	22027	1.000	ug/l #	42
59) 2-Hexanone	10.76	43	299335	39.055	ug/l #	50
71) Bromoform	12.40	173	4812	0.531	ug/l #	1
74) N-amyl acetate	11.88	43	30519	2.166	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	371875	36.672	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8716	0.210	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	371875	117.808	ug/l #	12
95) Naphthalene	15.13	128	37764	1.503	ug/l	98

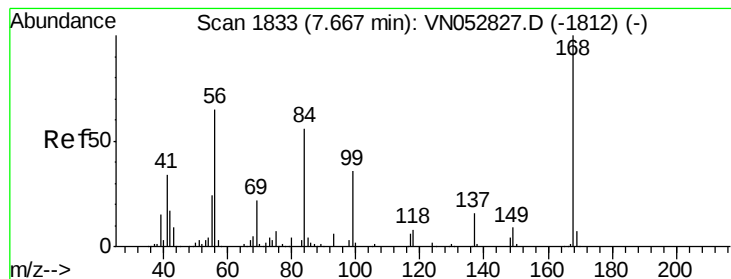
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 13 01:08:35 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: VN052904.D

Acq: 14 Dec 2018 22:12

Instrument :

MSVOA_N

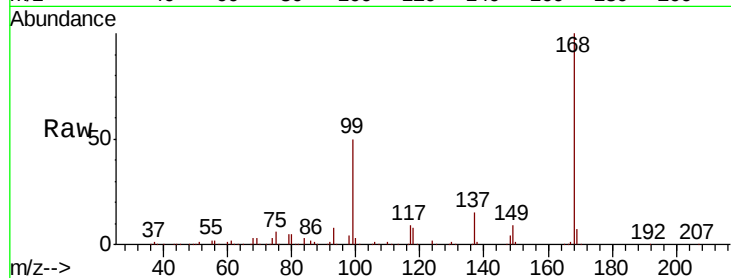
ClientSampled :

Tot Ion:168 Resp: 1398488

Ion Ratio Lower Upper

168 100

99 50.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN052827.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052827.D (-1812) (-)

7.67

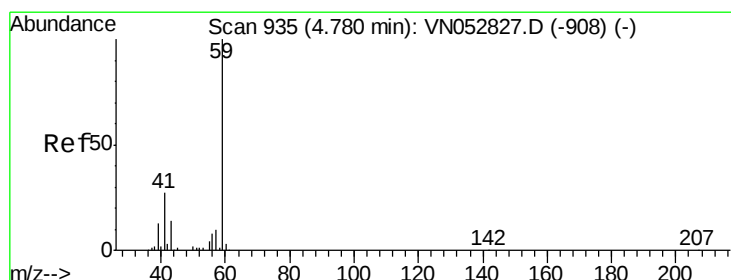
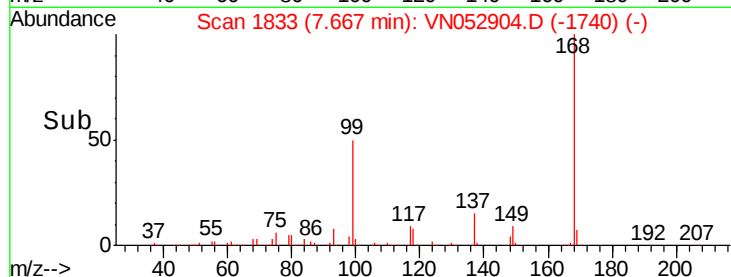
600000

400000

200000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.895 ug/l

RT: 4.77 min Scan# 933

Delta R.T. -0.01 min

Lab File: VN052904.D

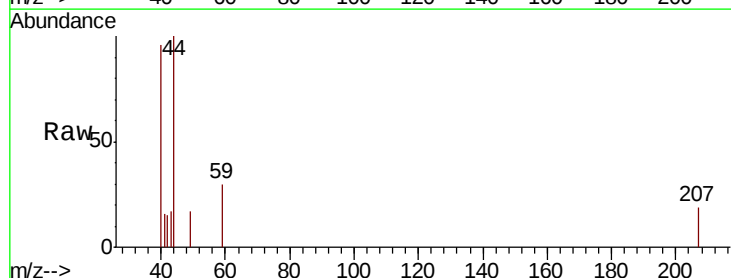
Acq: 14 Dec 2018 22:12

Tgt Ion: 59 Resp: 744

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VN052827.D (-908) (-)

Ion 57.00 (56.70 to 57.70): VN052827.D (-908) (-)

4.77

400

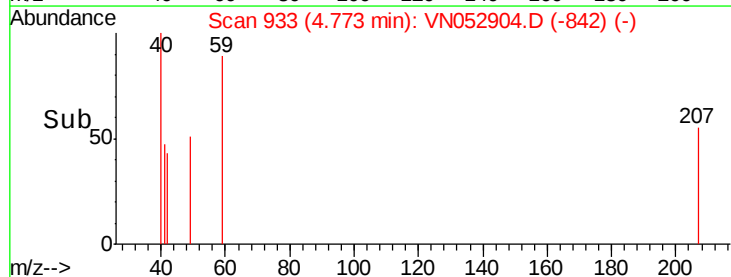
300

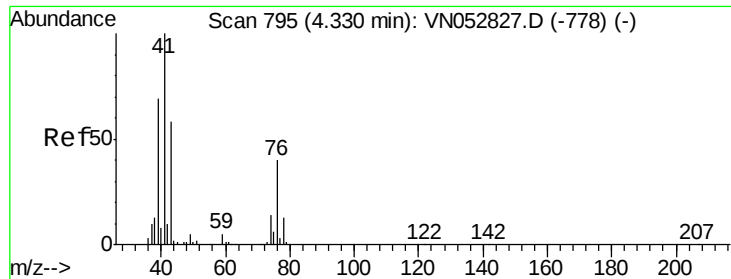
200

100

0

Time-->

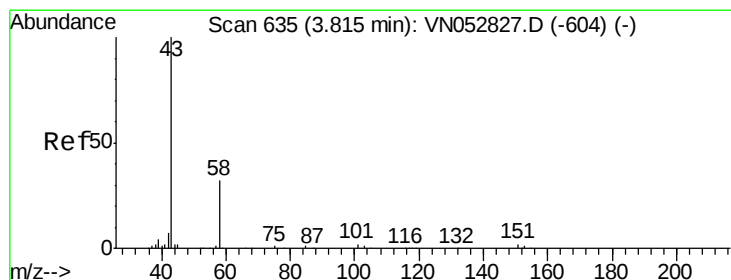
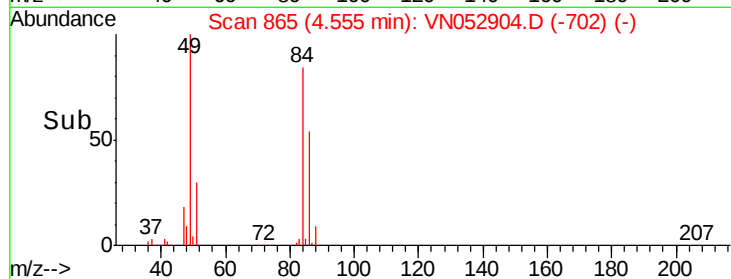
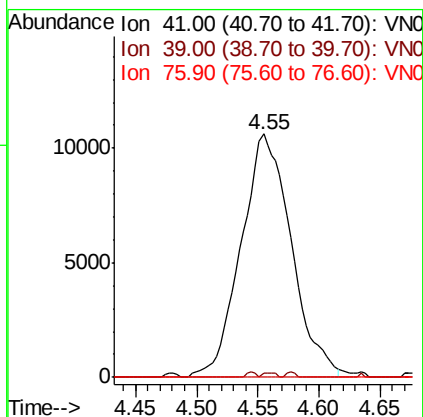
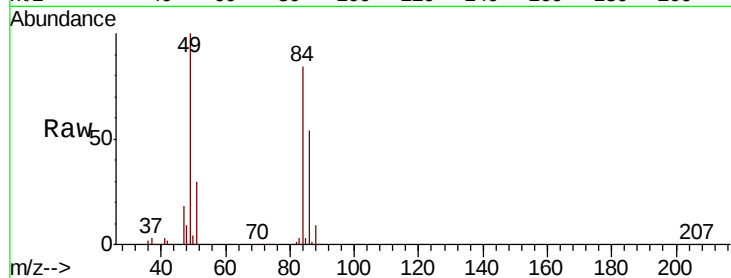




#14
Allvl chloride
Concen: 1.444 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.23 min
Lab File: VN052904.D
Acq: 14 Dec 2018 22:12

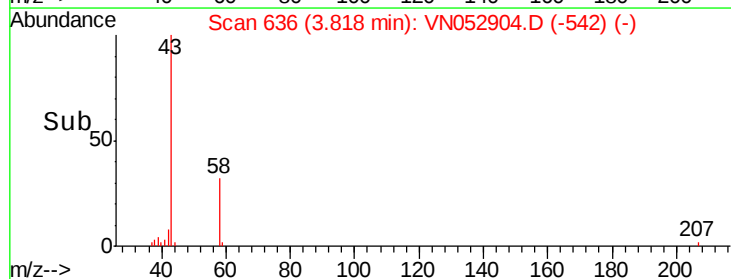
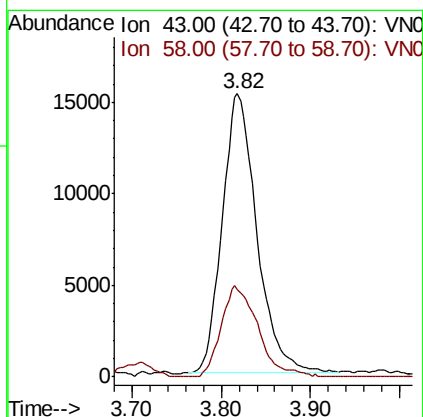
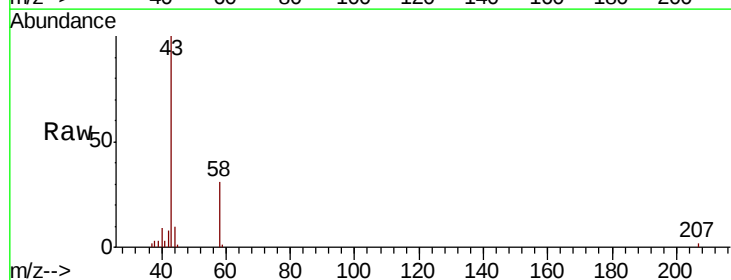
Instrument :
MSVOA_N
ClientSampled :

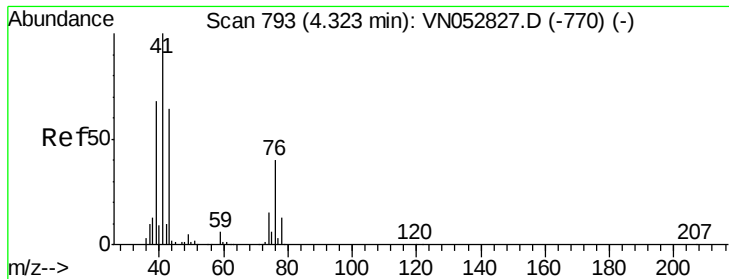
Tot Ion	Ratio	Lower	Upper
41	100		
39	0.5	54.1	81.1#
76	0.0	30.3	45.5#



#16
Acetone
Concen: 12.277 ug/l
RT: 3.82 min Scan# 636
Delta R.T. 0.00 min
Lab File: VN052904.D
Acq: 14 Dec 2018 22:12

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.5	25.4	38.0

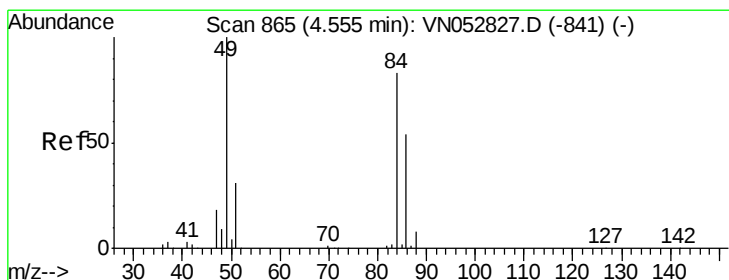
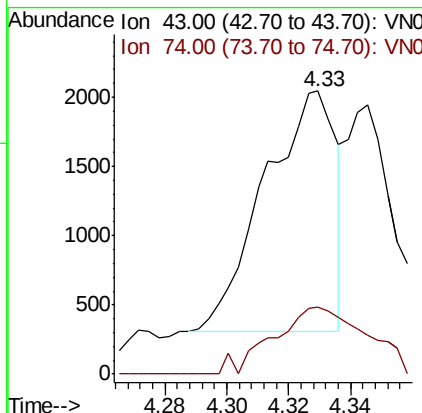
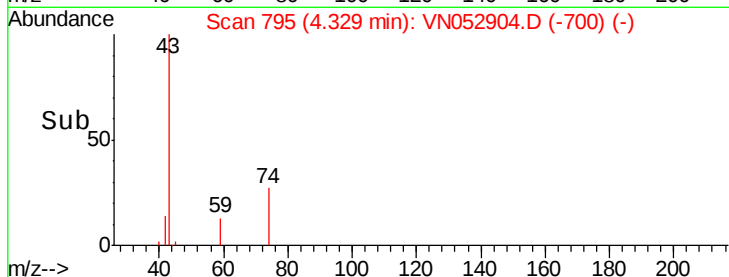
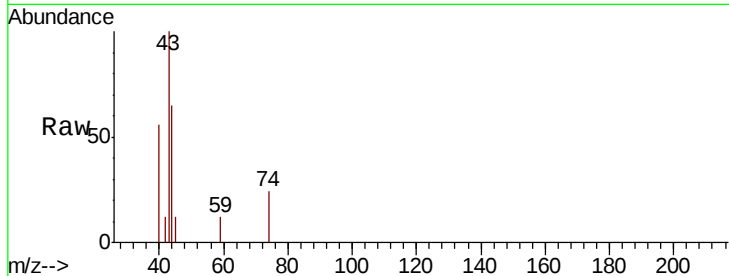




#18
Methyl Acetate
Concen: 0.226 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN052904.D
Acq: 14 Dec 2018 22:12

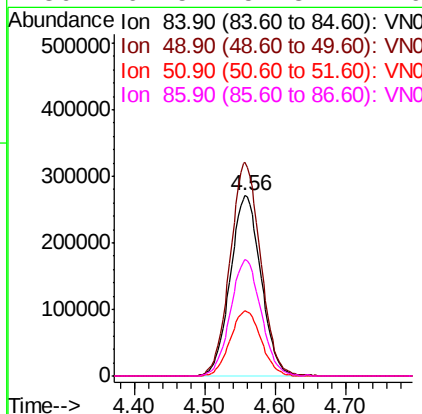
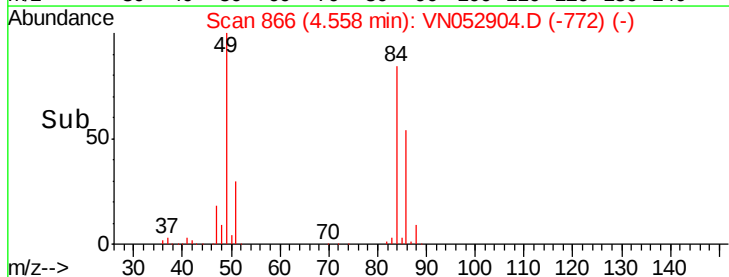
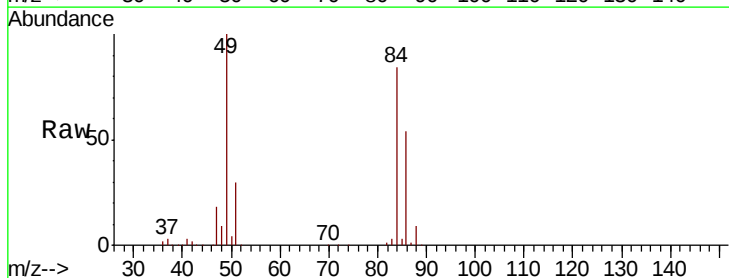
Instrument :
MSVOA_N
ClientSampleId :

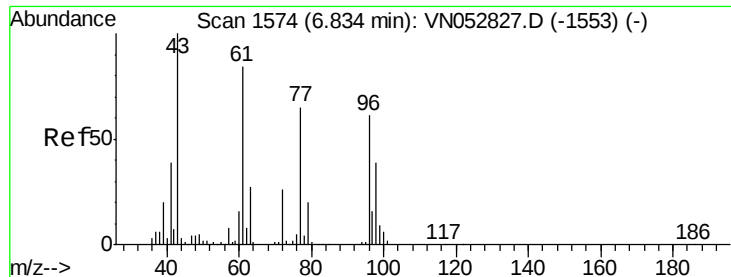
Tot Ion: 43 Resp: 2775
Ion Ratio Lower Upper
43 100
74 36.7 19.2 28.8#



#20
Methylene Chloride
Concen: 54.831 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052904.D
Acq: 14 Dec 2018 22:12

Tgt Ion: 84 Resp: 824070
Ion Ratio Lower Upper
84 100
49 118.5 96.8 145.2
51 36.0 29.9 44.9
86 64.5 51.8 77.6

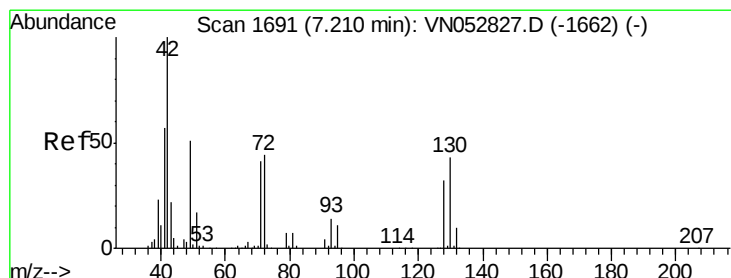
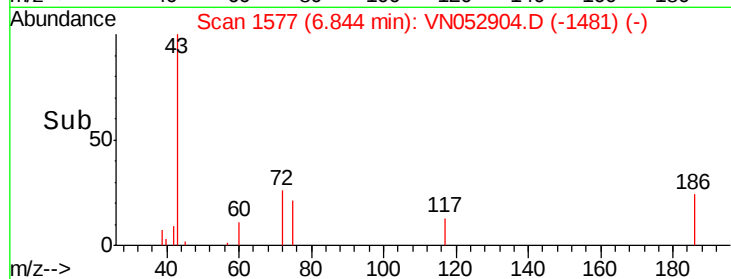
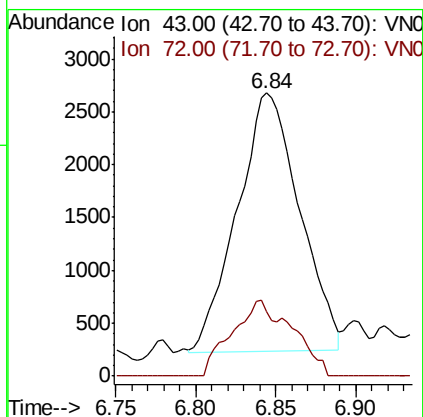
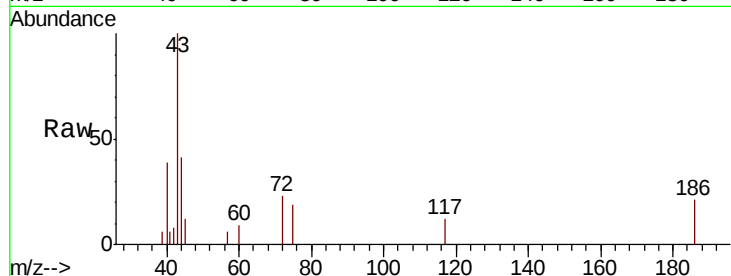




#25
2-Butanone
Concen: 1.270 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052904.D
Acq: 14 Dec 2018 22:12

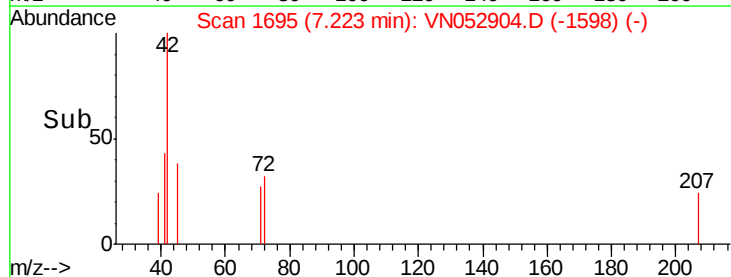
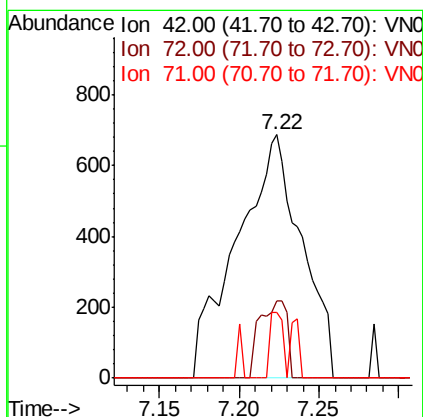
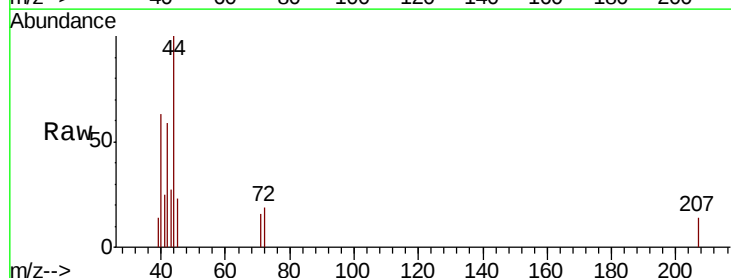
Instrument :
MSVOA_N
ClientSampled :

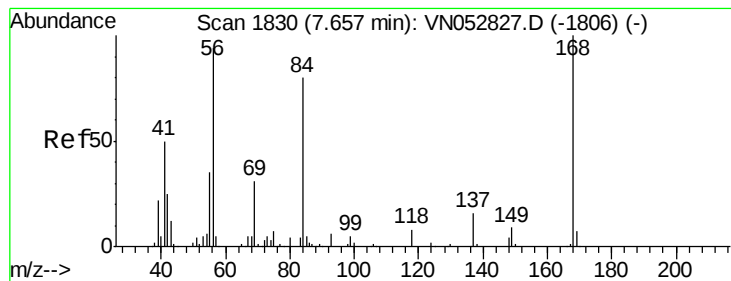
Tot Ion: 43 Resp: 6581
Ion Ratio Lower Upper
43 100
72 25.3 21.0 31.6



#29
Tetrahydrofuran
Concen: 0.541 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN052904.D
Acq: 14 Dec 2018 22:12

Tgt Ion: 42 Resp: 1914
Ion Ratio Lower Upper
42 100
72 13.2 34.7 52.1#
71 5.4 32.3 48.5#





#31

Cyclohexane

Concen: 0.348 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052904.D

Acq: 14 Dec 2018 22:12

Instrument :

MSVOA_N

ClientSampleId :

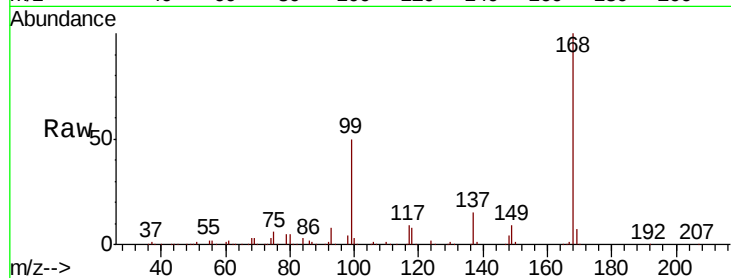
Tot Ion: 56 Resp: 23280

Ion Ratio Lower Upper

56 100

69 189.6 26.6 39.8#

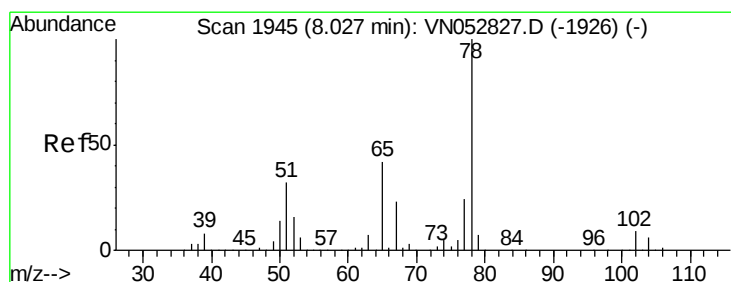
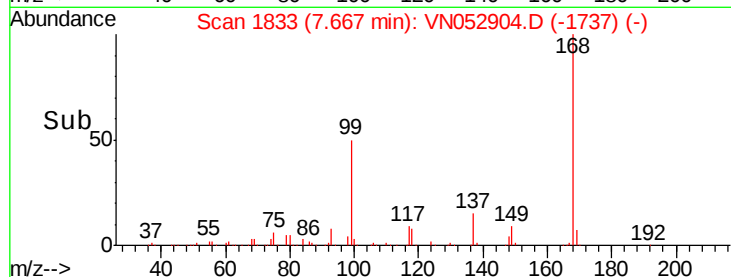
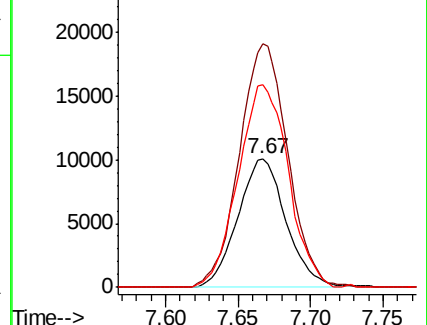
84 158.1 68.4 102.6#



Abundance Ion 56.00 (55.70 to 56.70): VN052827.D (-1806) (-)

Ion 69.00 (68.70 to 69.70): VN052827.D (-1806) (-)

Ion 84.00 (83.70 to 84.70): VN052827.D (-1806) (-)



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN052904.D

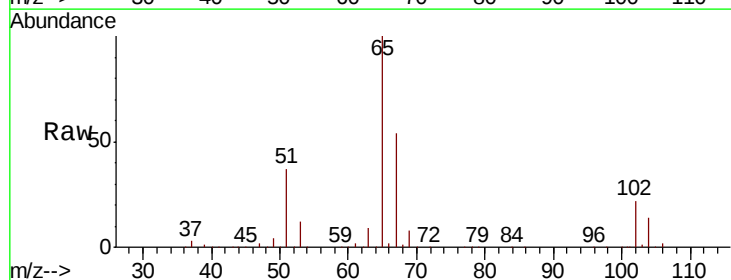
Acq: 14 Dec 2018 22:12

Tgt Ion: 65 Resp: 705447

Ion Ratio Lower Upper

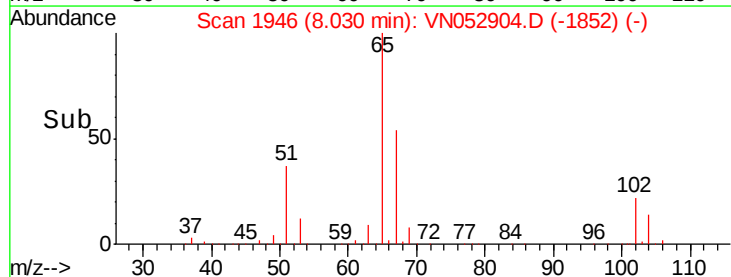
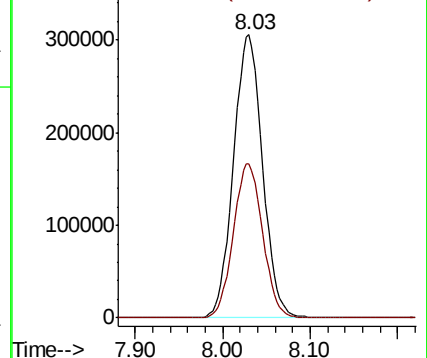
65 100

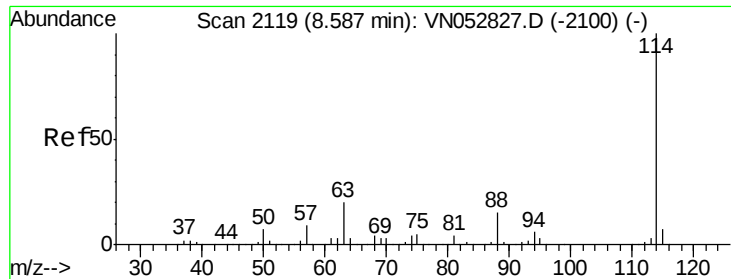
67 54.9 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN052827.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN052827.D (-1926) (-)

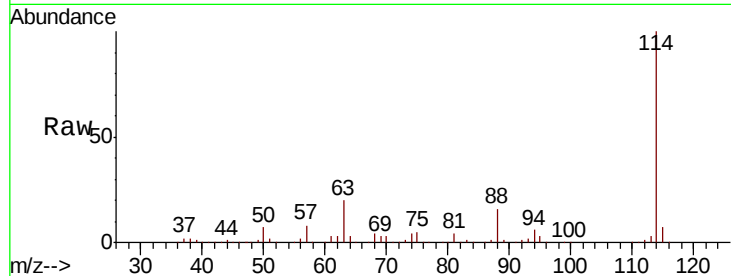




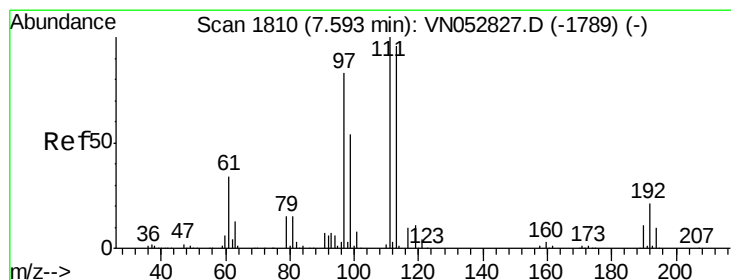
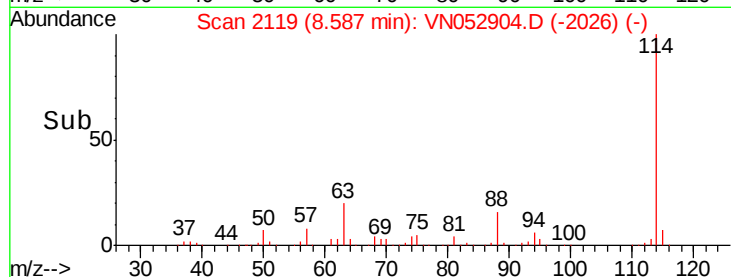
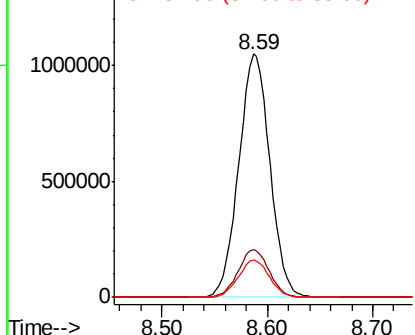
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN052904.D
Acq: 14 Dec 2018 22:12

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114 Resp: 2150359
Ion Ratio Lower Upper
114 100
63 19.9 0.0 39.8
88 15.5 0.0 31.0

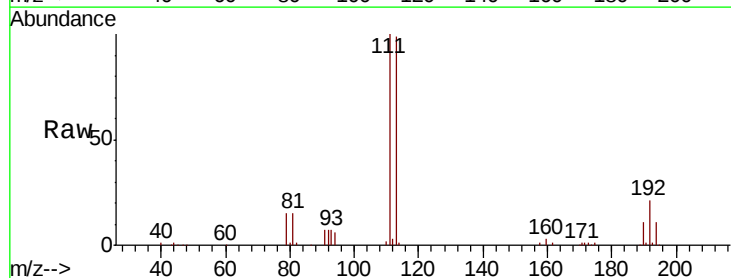


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

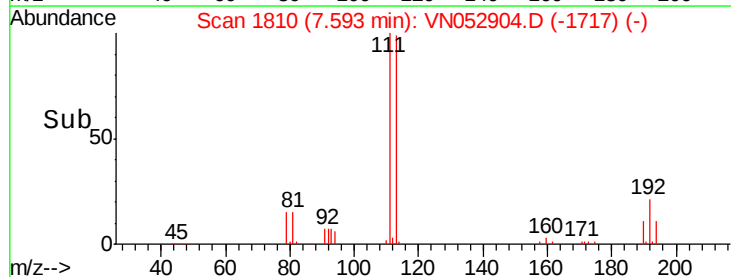
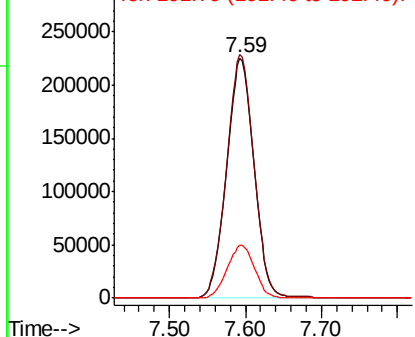


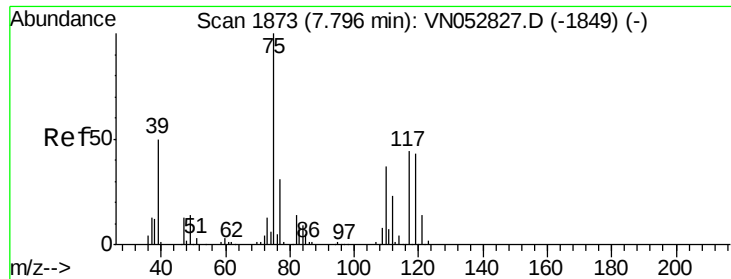
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VN052904.D
Acq: 14 Dec 2018 22:12

Tgt Ion:113 Resp: 563802
Ion Ratio Lower Upper
113 100
111 101.0 83.0 124.4
192 22.2 17.5 26.3



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

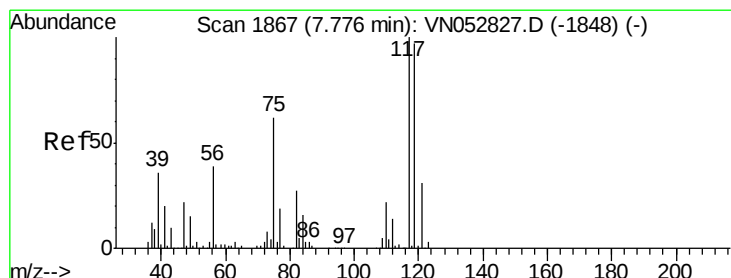
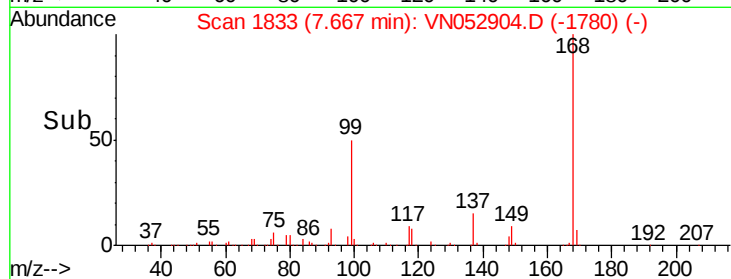
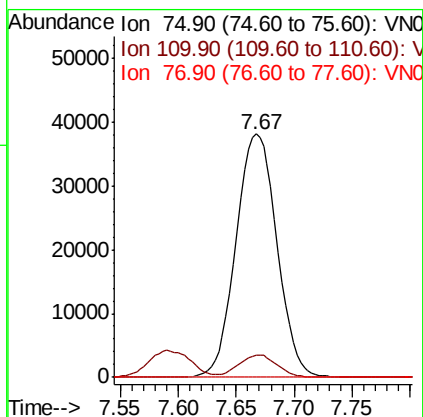
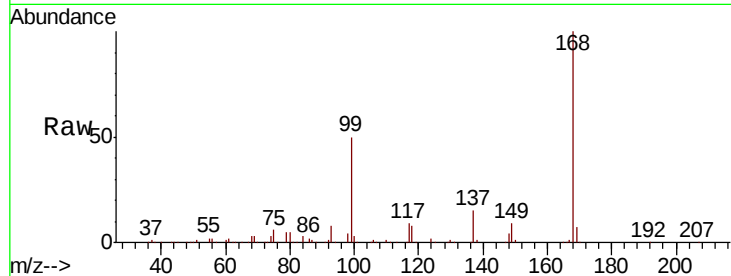




#36
 1,1-Dichloropropene
 Concen: 4.717 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052904.D
 Acq: 14 Dec 2018 22:12

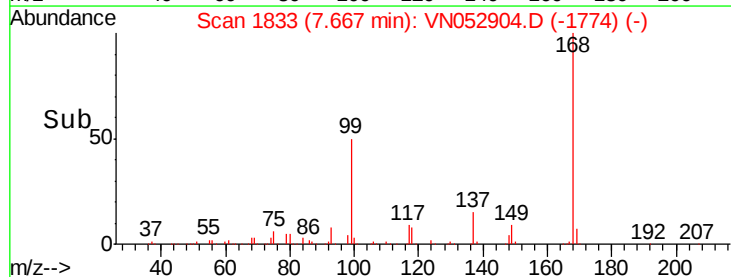
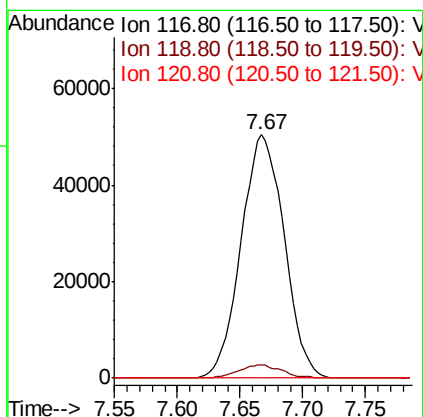
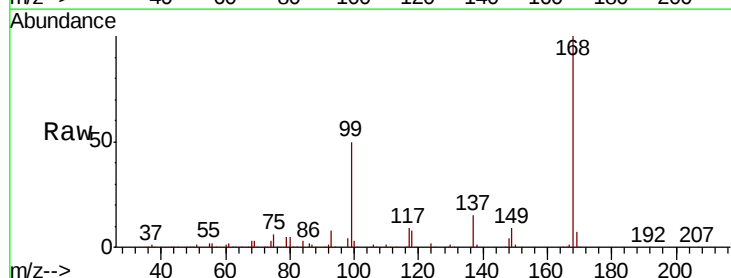
Instrument :
 MSVOA_N
 ClientSampled :

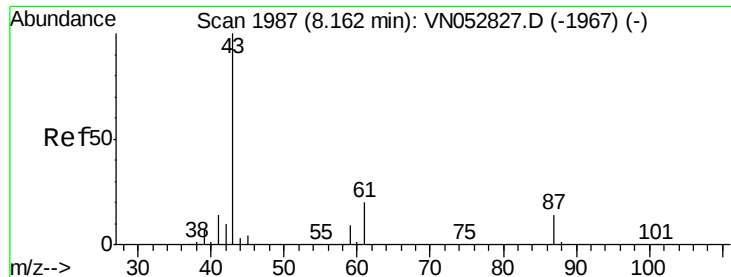
Tot Ion	75	Resp	93409
Ion Ratio	100	Lower	Upper
110	8.5	18.2	54.6#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.617 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052904.D
 Acq: 14 Dec 2018 22:12

Tgt Ion	117	Resp	120603
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
119	5.5	77.1	115.7#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 2.687 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052904.D

Acq: 14 Dec 2018 22:12

Instrument :

MSVOA_N

ClientSampleId :

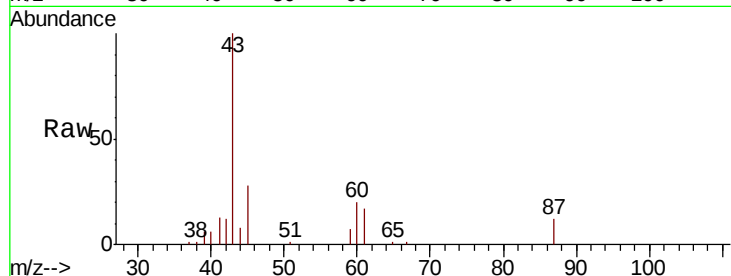
Tot Ion: 43 Resp: 65538

Ion Ratio Lower Upper

43 100

61 15.4 22.9 34.3#

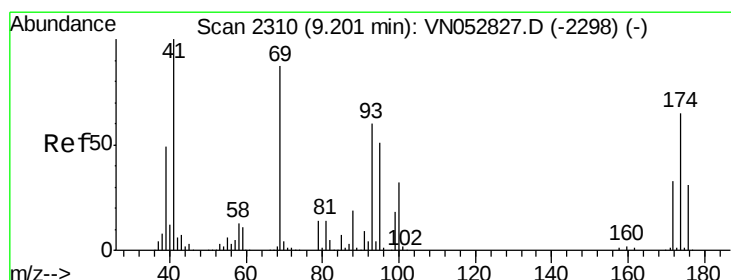
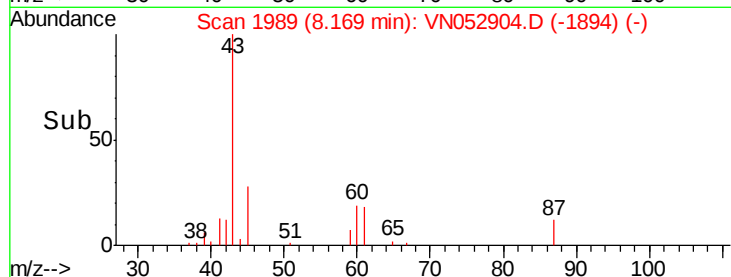
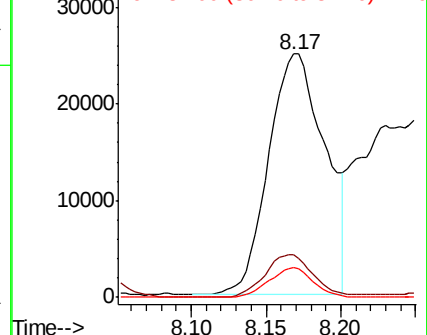
87 9.4 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VN052827.D (-1967) (-)

Ion 61.00 (60.70 to 61.70): VN052827.D (-1967) (-)

Ion 87.00 (86.70 to 87.70): VN052827.D (-1967) (-)



#48

Methyl methacrylate

Concen: 1.345 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN052904.D

Acq: 14 Dec 2018 22:12

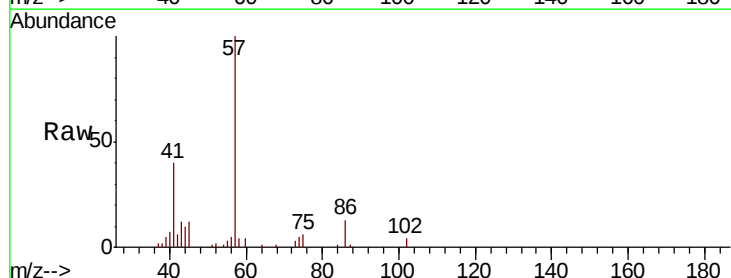
Tgt Ion: 41 Resp: 14381

Ion Ratio Lower Upper

41 100

69 0.0 72.2 108.2#

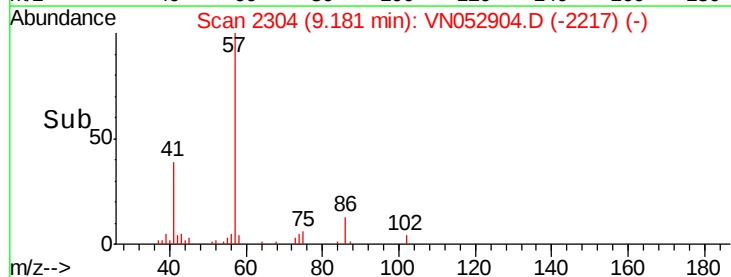
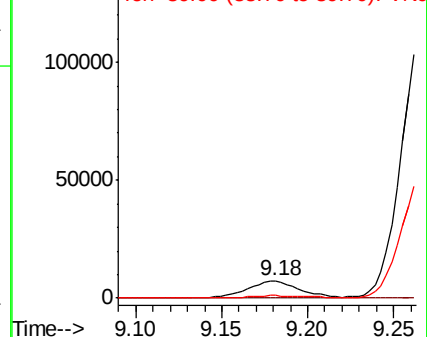
39 0.0 41.9 62.9#

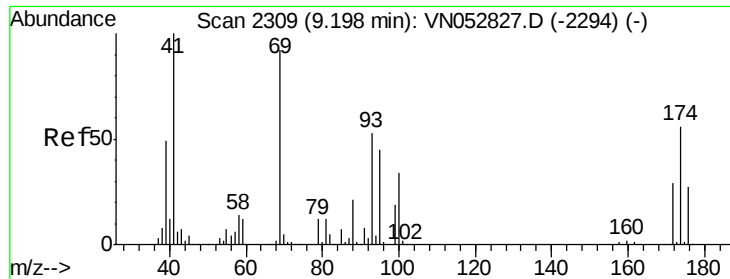


Abundance Ion 41.00 (40.70 to 41.70): VN052827.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN052827.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN052827.D (-2298) (-)





#49

1,4-Dioxane

Concen: 2.529 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN052904.D

Acq: 14 Dec 2018 22:12

Instrument :

MSVOA_N

ClientSampleId :

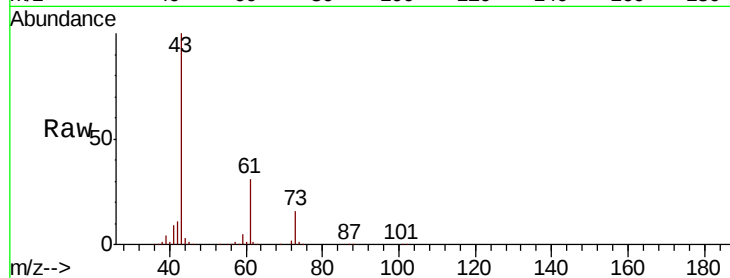
Tot Ion: 88 Resp: 307

Ion Ratio Lower Upper

88 100

43 807873.9 26.6 40.0#

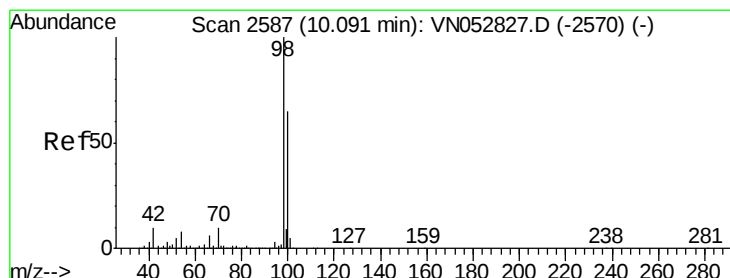
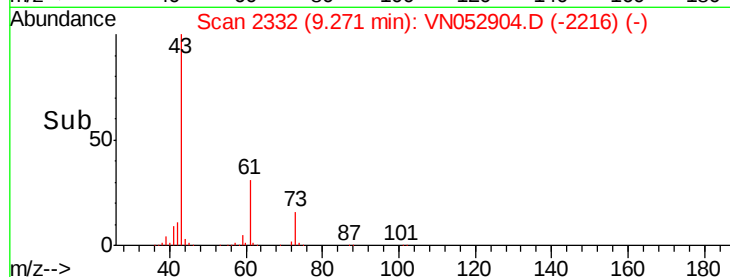
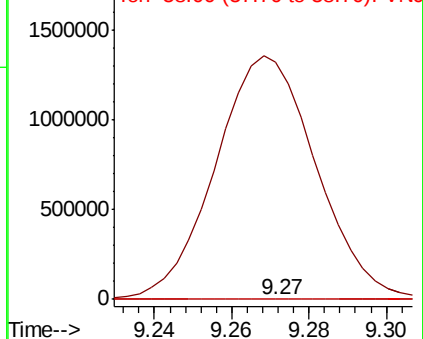
58 3427.4 58.4 87.6#



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: 2.529 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052904.D

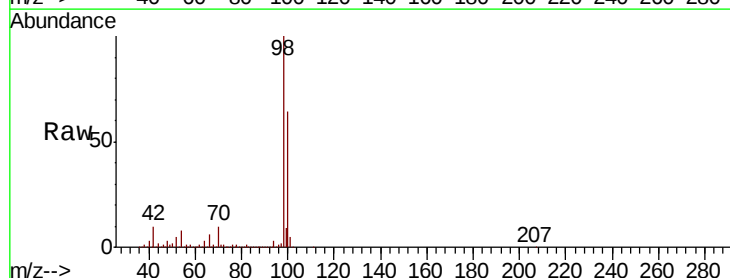
Acq: 14 Dec 2018 22:12

Tgt Ion: 98 Resp: 2597001

Ion Ratio Lower Upper

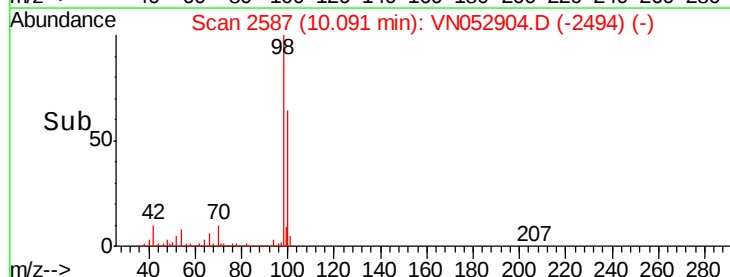
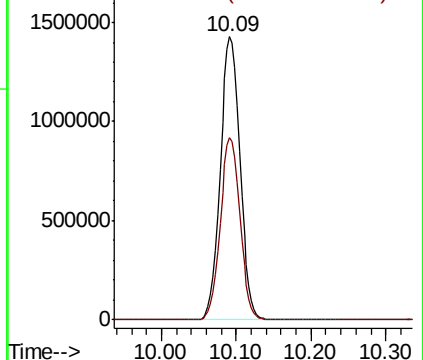
98 100

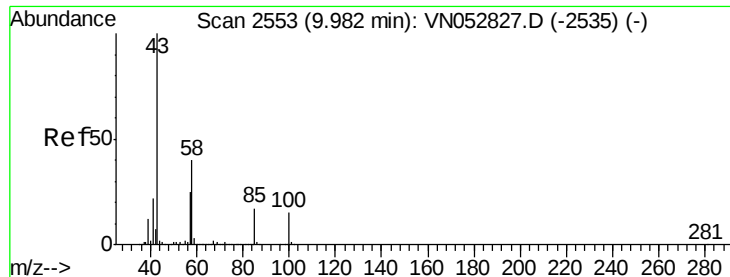
100 64.2 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.814 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052904.D

Acq: 14 Dec 2018 22:12

Instrument :

MSVOA_N

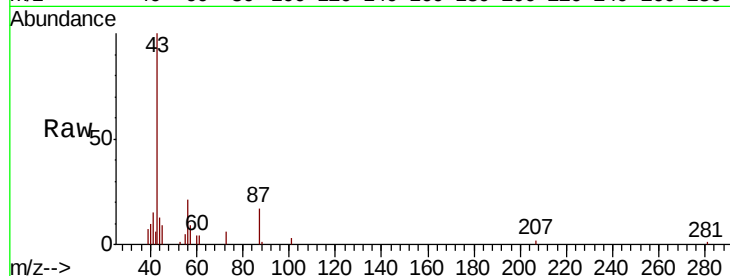
ClientSampled :

Tot Ion: 43 Resp: 20287

Ion Ratio Lower Upper

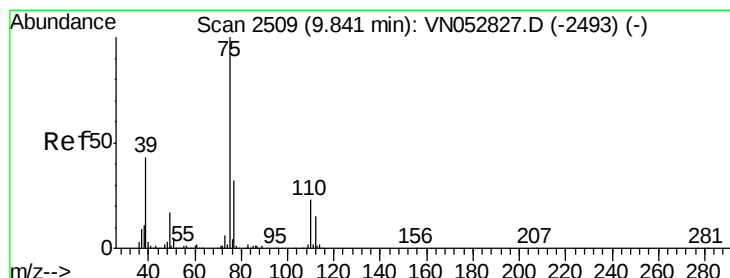
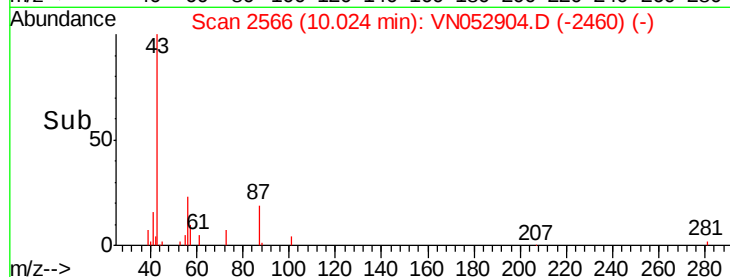
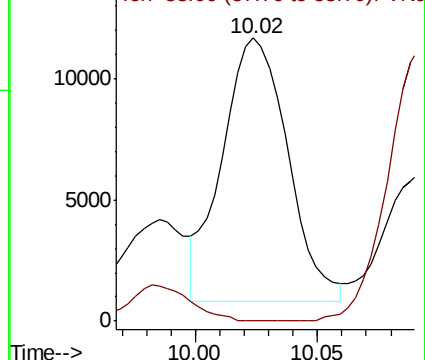
43 100

58 0.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.341 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052904.D

Acq: 14 Dec 2018 22:12

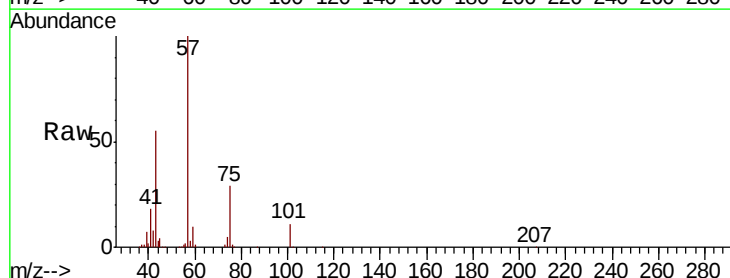
Tgt Ion: 75 Resp: 119891

Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.8#

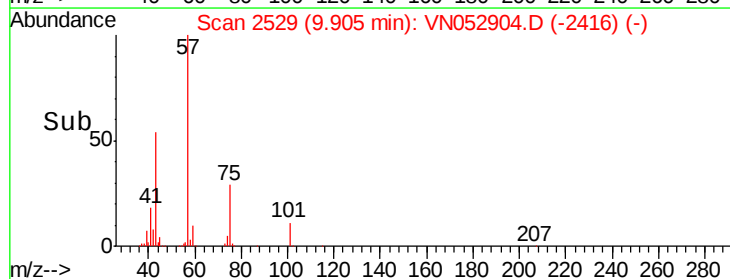
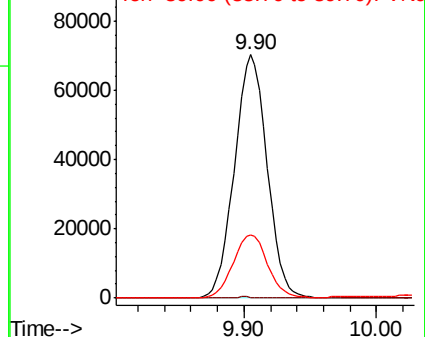
39 26.0 34.8 52.2#

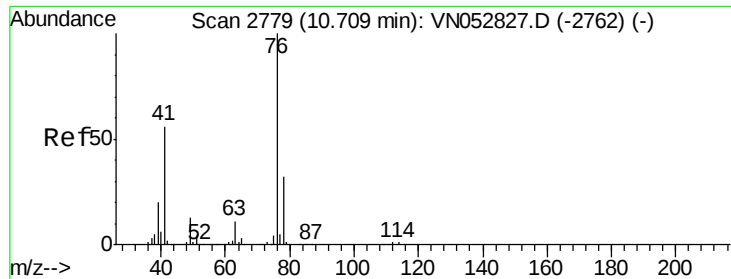


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

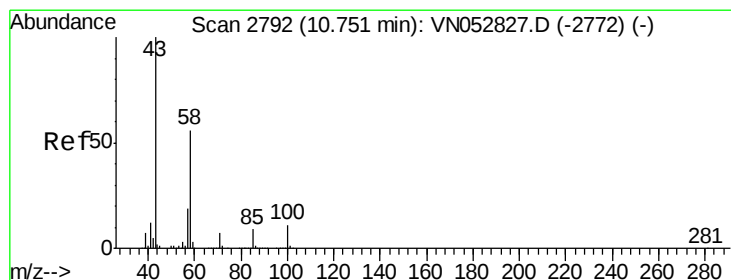
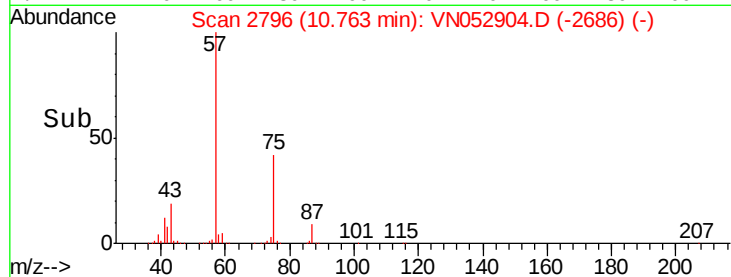
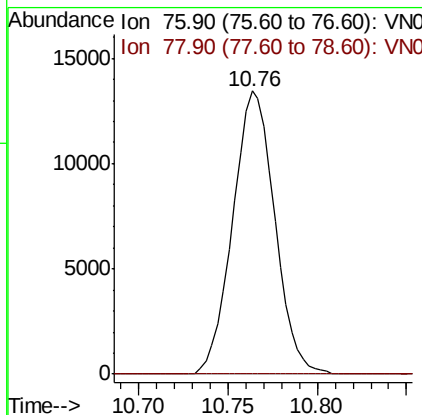
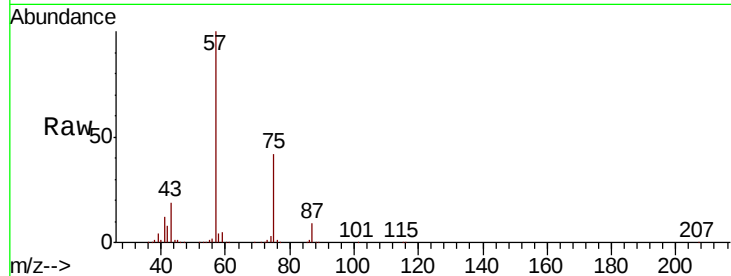




#57
 1,3-Dichloropropane
 Concen: 1.000 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN052904.D
 Acq: 14 Dec 2018 22:12

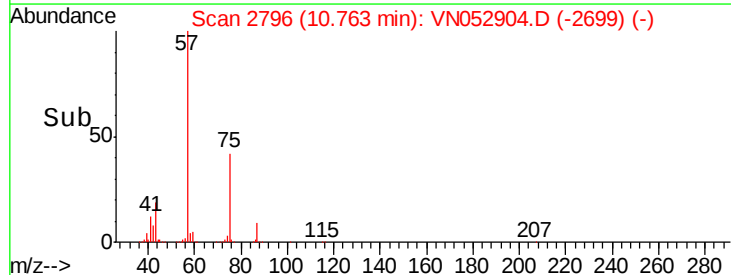
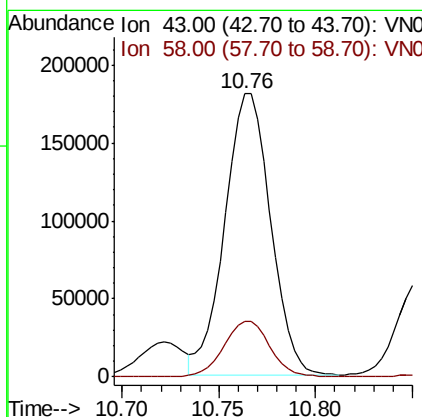
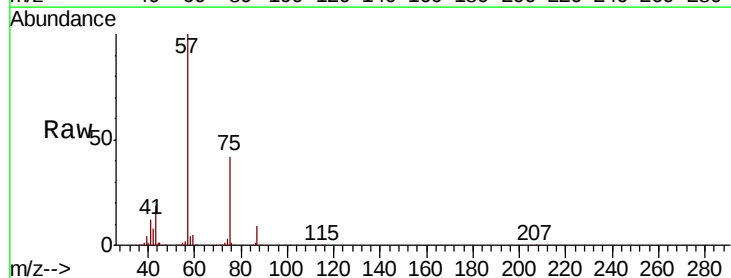
Instrument :
 MSVOA_N
 ClientSampled :

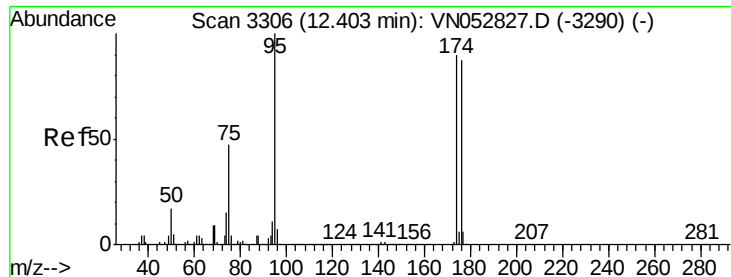
Tot Ion: 76 Resp: 22027
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 39.055 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN052904.D
 Acq: 14 Dec 2018 22:12

Tgt Ion: 43 Resp: 299335
 Ion Ratio Lower Upper
 43 100
 58 19.9 28.1 84.3#

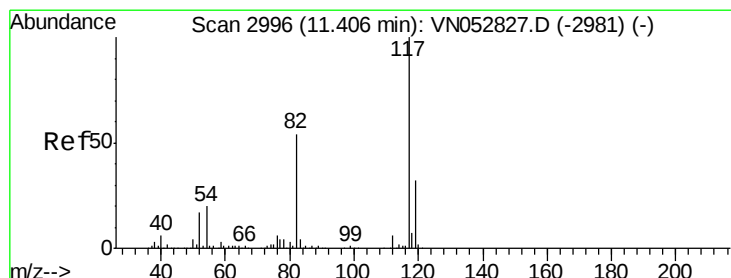
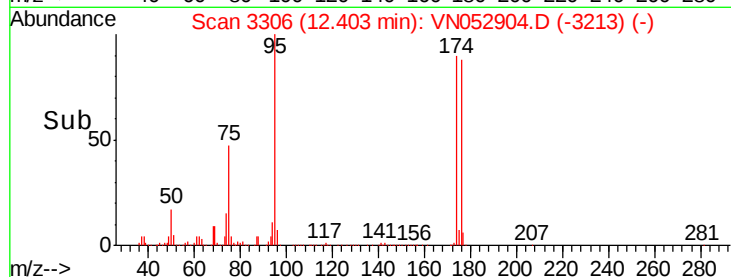
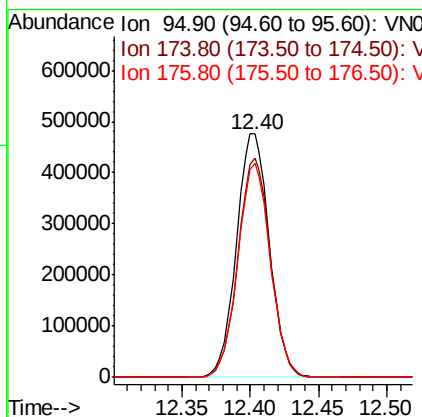
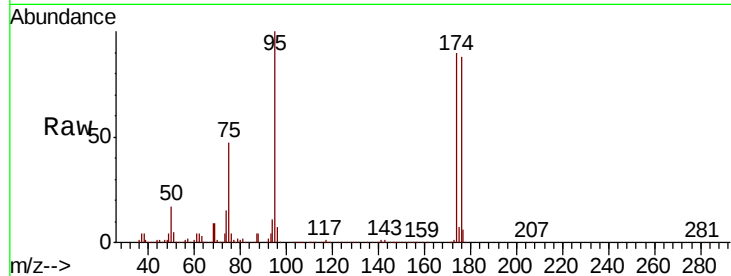




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN052904.D
Acq: 14 Dec 2018 22:12

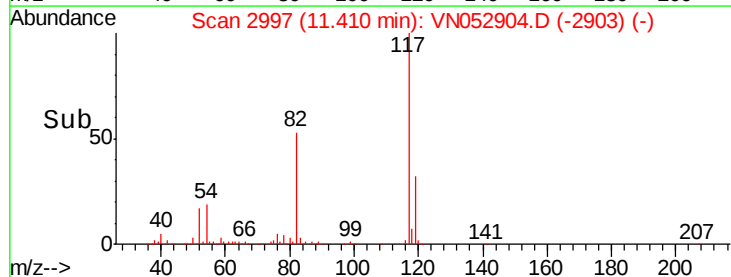
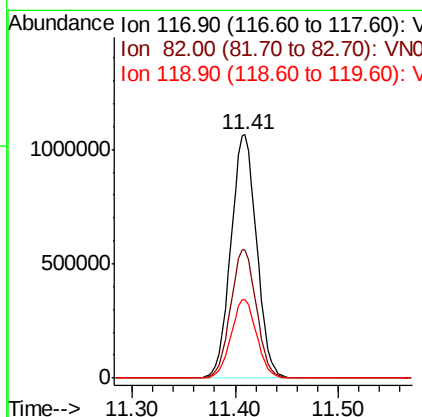
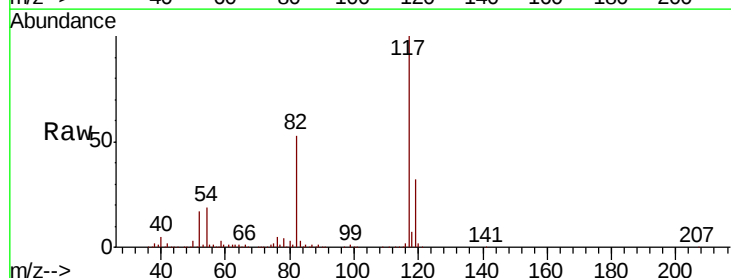
Instrument :
MSVOA_N
ClientSampleId :

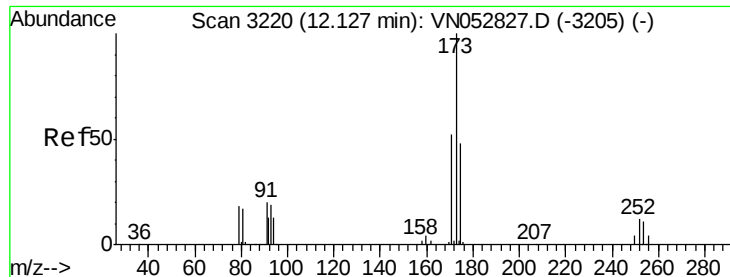
Tot Ion: 95 Resp: 796975
Ion Ratio Lower Upper
95 100
174 88.9 0.0 178.8
176 86.6 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052904.D
Acq: 14 Dec 2018 22:12

Tgt Ion: 117 Resp: 1849381
Ion Ratio Lower Upper
117 100
82 52.7 42.8 64.2
119 32.2 25.5 38.3





#71

Bromoform

Concen: 0.531 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052904.D

Acq: 14 Dec 2018 22:12

Instrument :

MSVOA_N

ClientSampleId :

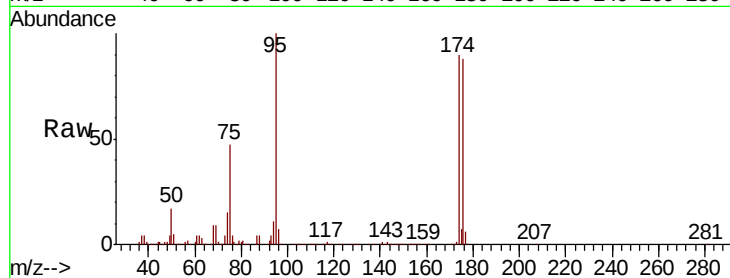
Tot Ion:173 Resp: 4812

Ion Ratio Lower Upper

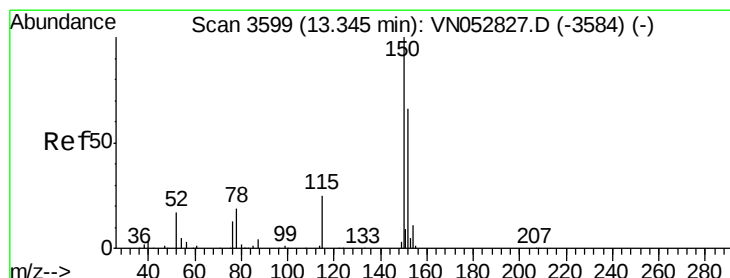
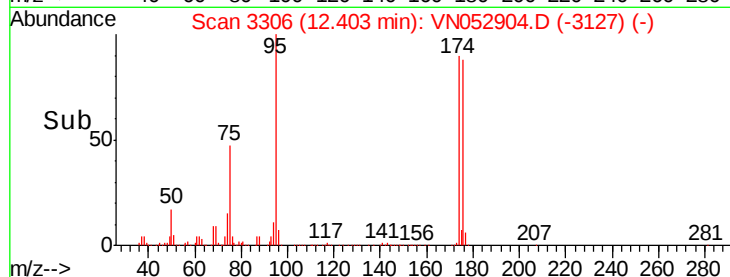
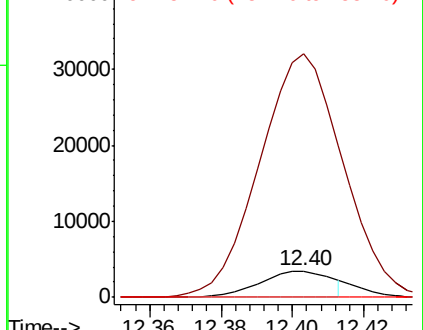
173 100

175 926.8 24.3 72.9#

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: VN052904.D

Acq: 14 Dec 2018 22:12

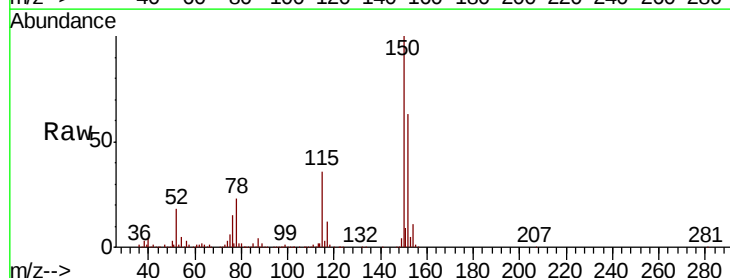
Tgt Ion:152 Resp: 687319

Ion Ratio Lower Upper

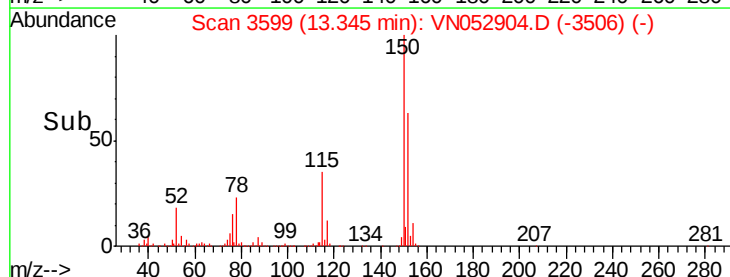
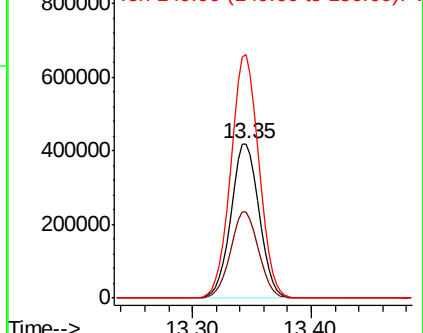
152 100

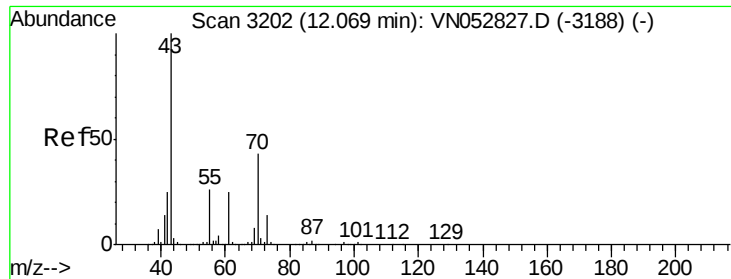
115 55.8 28.3 85.0

150 156.9 0.0 347.8



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: 2.166 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052904.D

Acq: 14 Dec 2018 22:12

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 30519

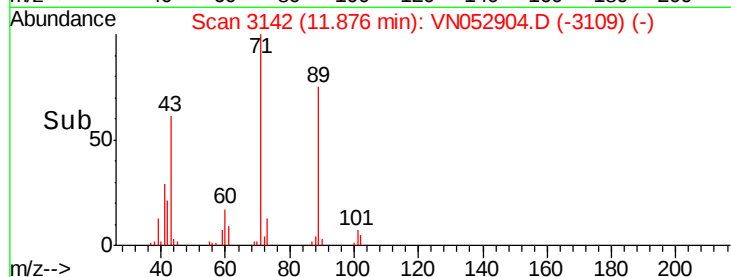
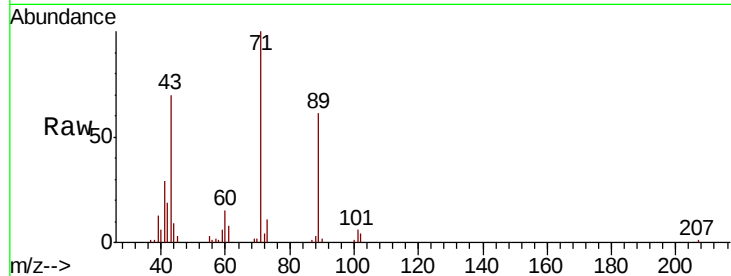
Ion Ratio Lower Upper

43 100

70 2.3 34.2 51.4#

55 4.3 20.3 30.5#

61 11.3 20.0 30.0#

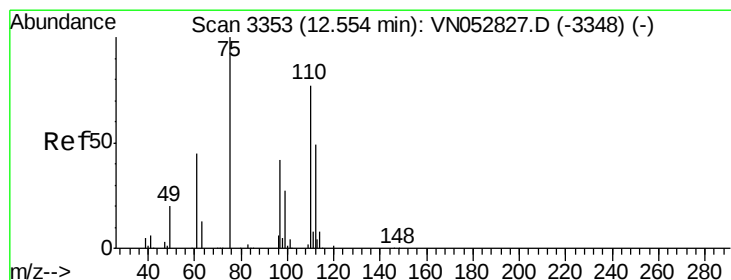
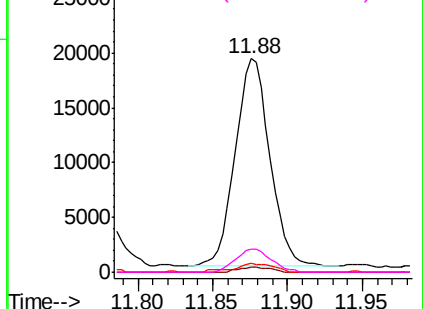


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 36.672 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052904.D

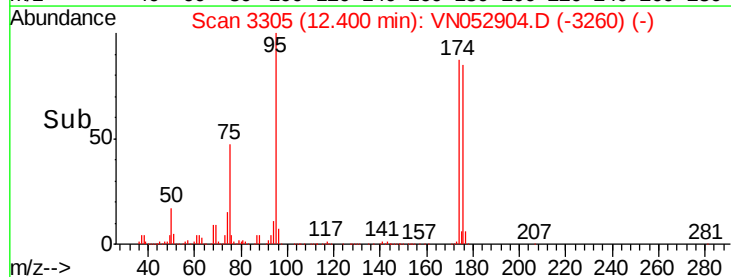
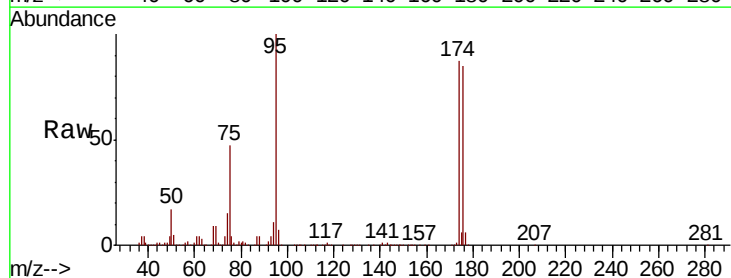
Acq: 14 Dec 2018 22:12

Tgt Ion: 75 Resp: 371875

Ion Ratio Lower Upper

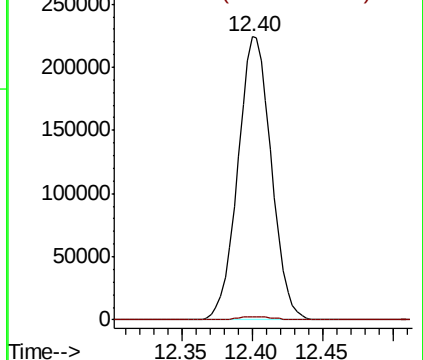
75 100

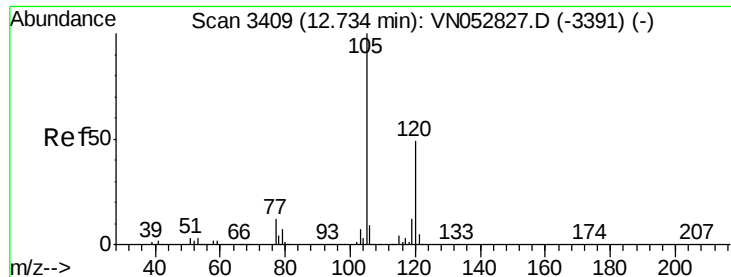
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

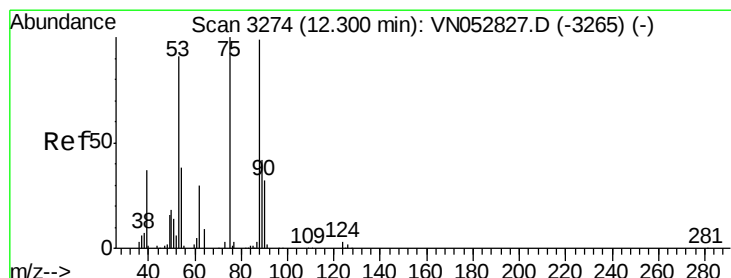
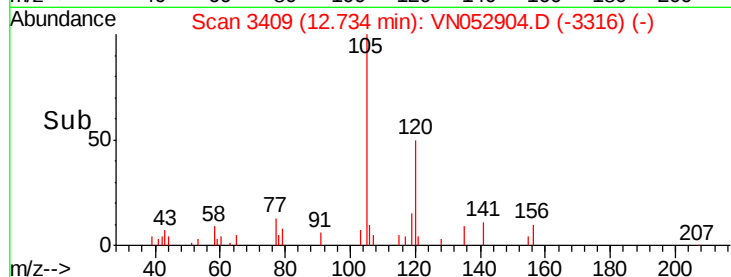
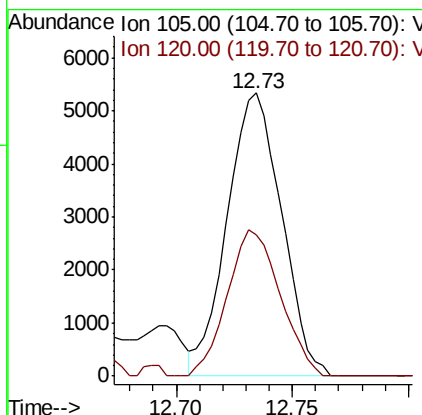
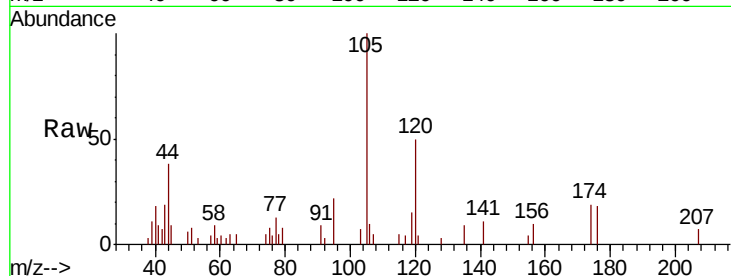




#80
 1,3,5-Trimethylbenzene
 Concen: 0.210 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. -0.00 min
 Lab File: VN052904.D
 Acq: 14 Dec 2018 22:12

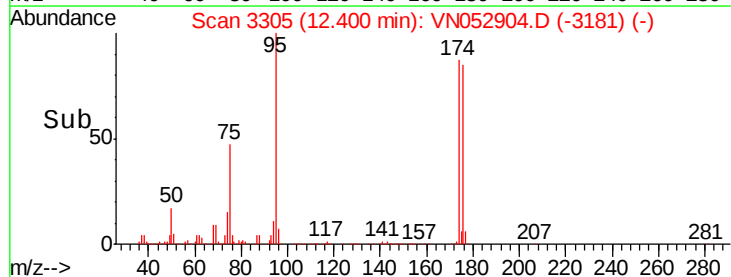
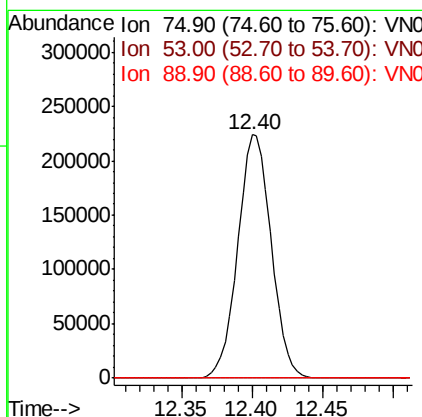
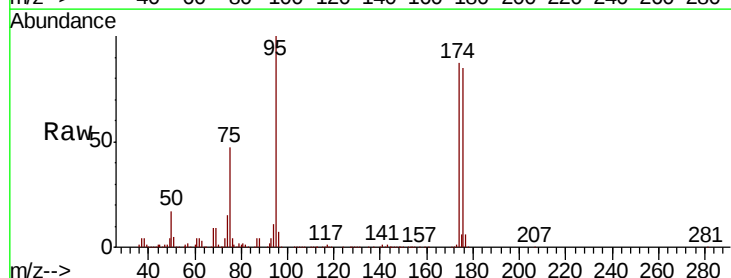
Instrument :
 MSVOA_N
 ClientSampleId :

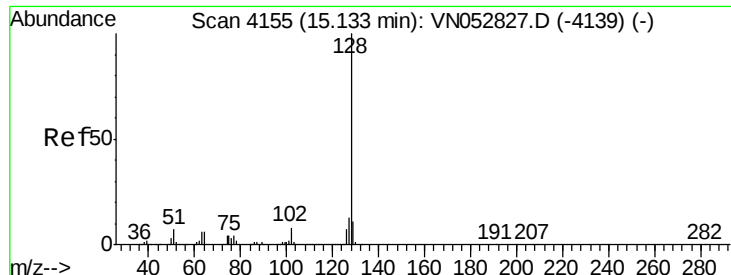
Tot Ion:105 Resp: 8716
 Ion Ratio Lower Upper
 105 100
 120 50.3 24.4 73.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 117.808 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052904.D
 Acq: 14 Dec 2018 22:12

Tgt Ion: 75 Resp: 371875
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.7 112.1#
 89 0.0 36.1 54.1#





#95

Naphthalene

Concen: 1.503 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

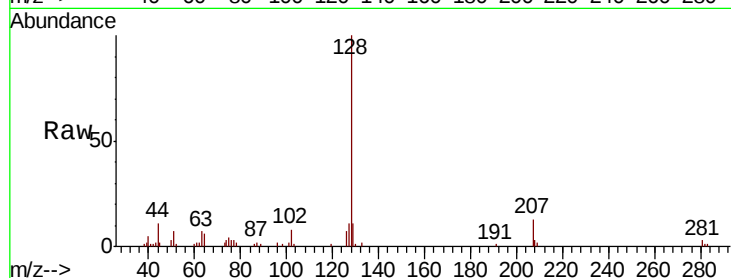
Lab File: VN052904.D

Acq: 14 Dec 2018 22:12

Instrument :

MSVOA_N

ClientSampleId :



Tot Ion:128 Resp: 37764

Ion Ratio Lower Upper

128 100

127 11.8 10.2 15.4

129 11.2 8.6 13.0

