

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082018\
 Data File : VN050771.D
 Acq On : 20 Aug 2018 13:56
 Operator : MD\SY
 Sample : J4555-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TWP-02

Quant Time: Aug 21 02:37:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	107942	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	547609	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	465497	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	213599	29.11	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.03%
60) 4-Bromofluorobenzene	12.40	95	153984	21.53	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	71.77%
63) Toluene-d8	10.09	98	648480	29.17	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.23%

Target Compounds

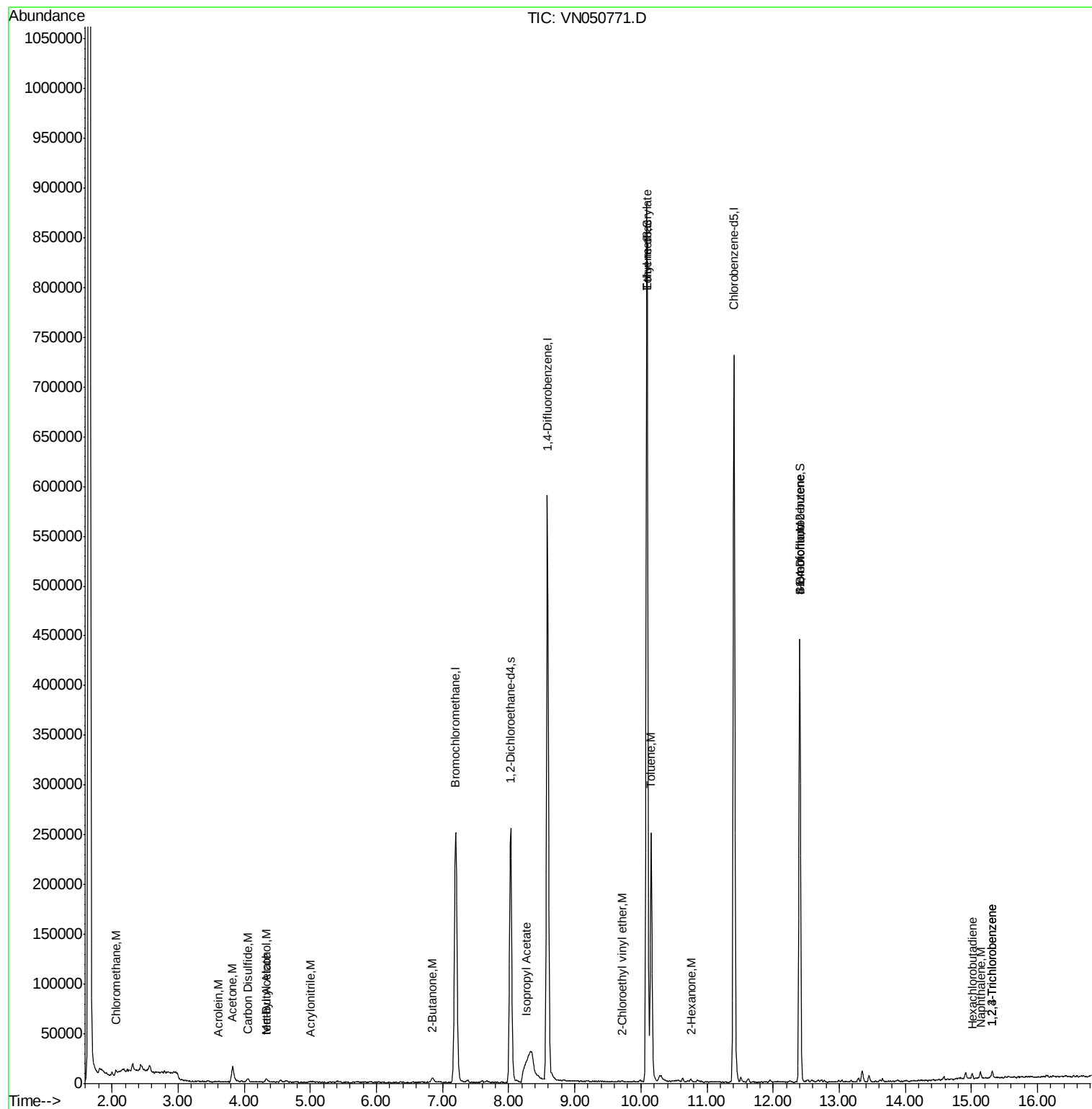
						Ovalue
3) Chloromethane	2.06	50	3553	0.46	ug/l	95
12) Methyl Acetate	4.34	43	5763	0.87	ug/l	99
13) Acrolein	3.61	56	357	0.88	ug/l #	49
14) Acrylonitrile	5.01	53	464	0.21	ug/l #	53
15) Acetone	3.82	58	8806	15.06	ug/l #	64
16) Carbon Disulfide	4.05	76	4598	0.26	ug/l	99
23) tert-Butyl Alcohol	4.34	59	236	0.48	ug/l #	100
30) 2-Butanone	6.85	43	4523	1.70	ug/l #	91
44) Isopropyl Acetate	8.26	43	18829	1.83	ug/l #	58
51) Ethyl methacrylate	10.10	69	2198	0.30	ug/l	69
55) 2-Chloroethyl vinyl ether	9.71	63	1157	0.35	ug/l #	71
56) Bromoform	12.41	173	1164	0.24	ug/l #	1
59) 2-Hexanone	10.76	43	1175	0.32	ug/l #	74
62) Toluene	10.16	91	191333	7.20	ug/l	98
77) t-1,4-Dichloro-2-butene	12.40	75	71763	35.37	ug/l #	14
89) 1,2,4-Trichlorobenzene	15.32	180	2834	0.49	ug/l	98
90) Hexachlorobutadiene	15.01	225	1142	0.30	ug/l	97
91) Naphthalene	15.14	128	5558	7.95	ug/l #	91
92) 1,2,3-Trichlorobenzene	15.32	180	2834	0.49	ug/l	99

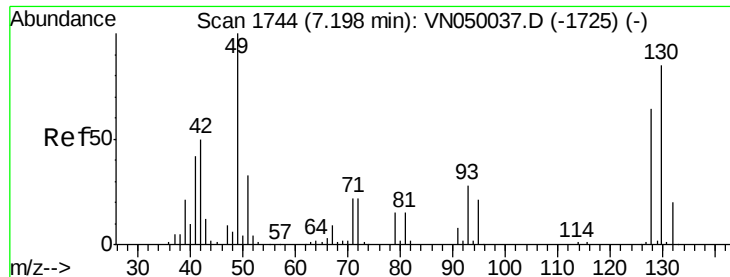
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 15:21:50 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VN050771.D

Acq: 20 Aug 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

TWP-02

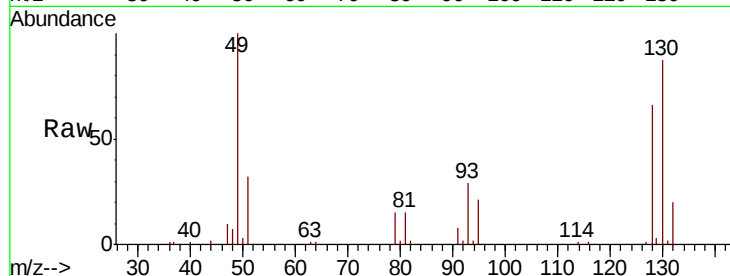
Tot Ion:128 Resp: 107942

Ion Ratio Lower Upper

128 100

49 151.0 0.0 378.3

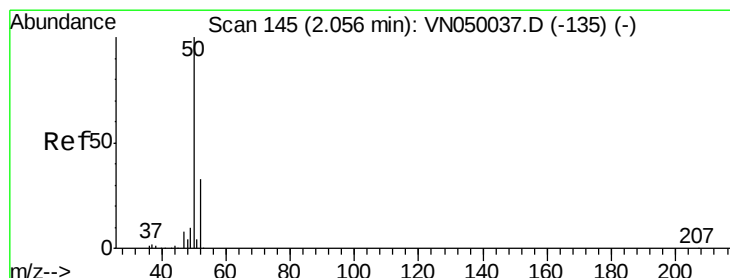
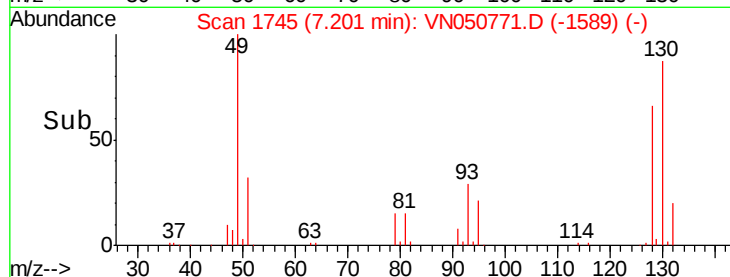
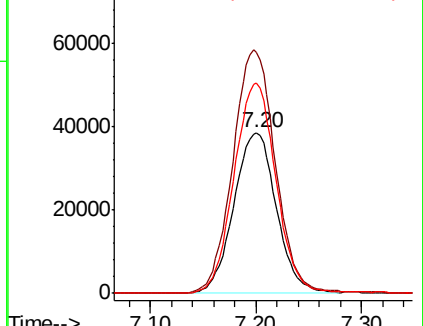
130 129.1 0.0 320.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.46 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050771.D

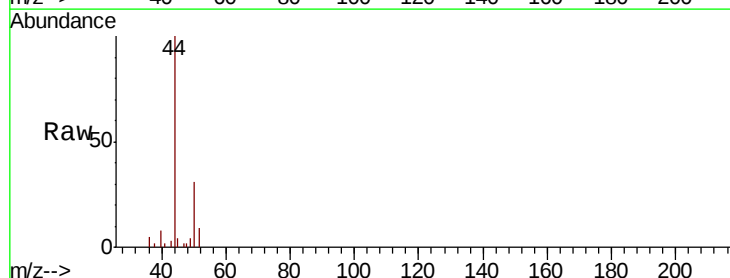
Acq: 20 Aug 2018 13:56

Tgt Ion: 50 Resp: 3553

Ion Ratio Lower Upper

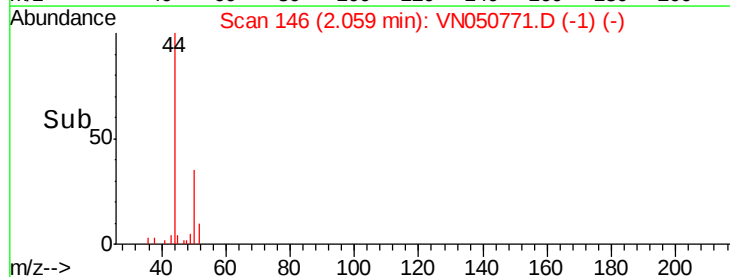
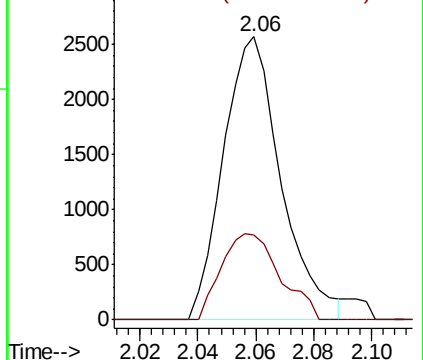
50 100

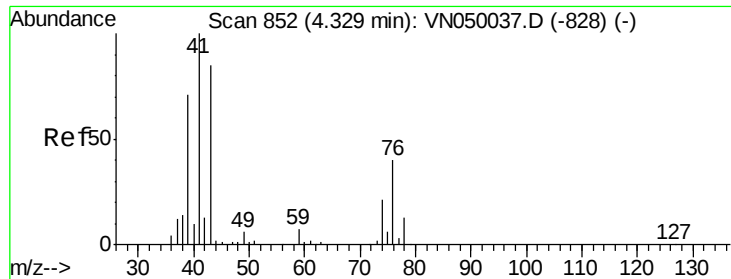
52 29.9 26.1 39.1



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

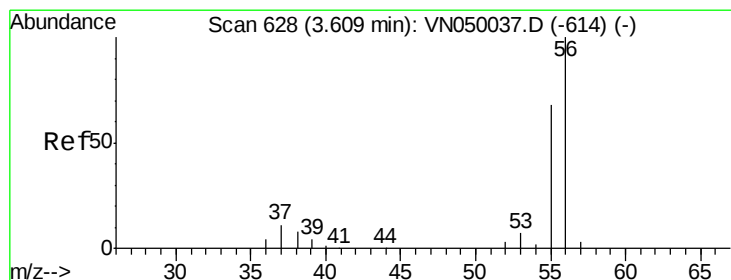
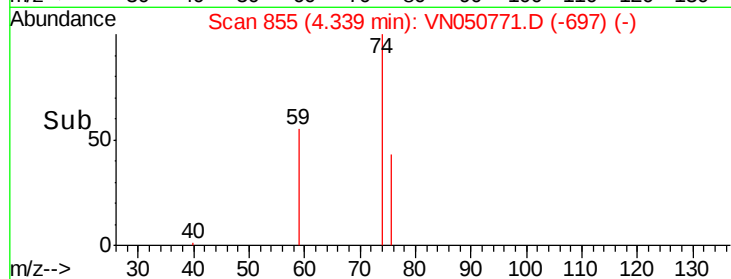
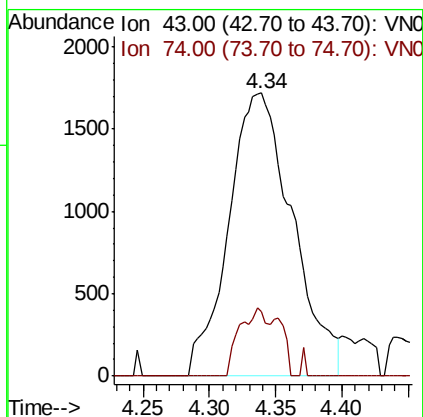
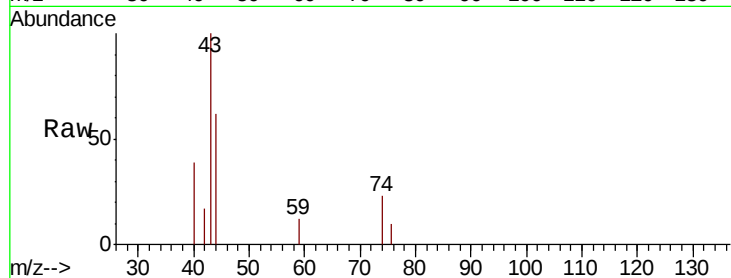




#12
Methvl Acetate
Concen: 0.87 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050771.D
Acq: 20 Aug 2018 13:56

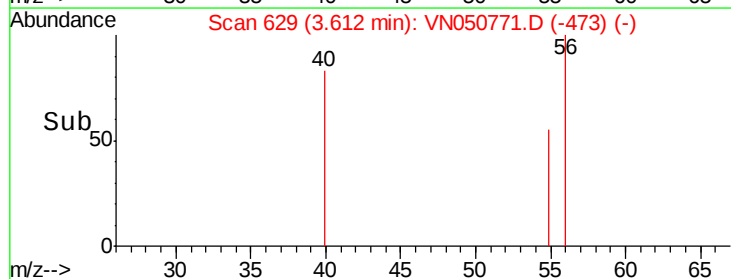
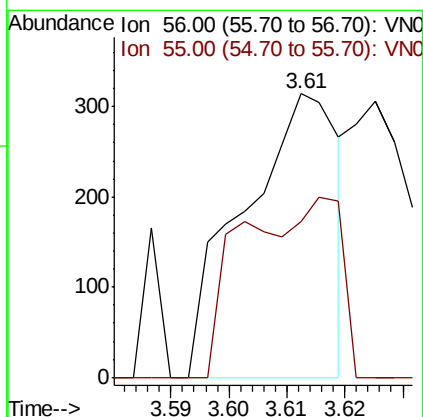
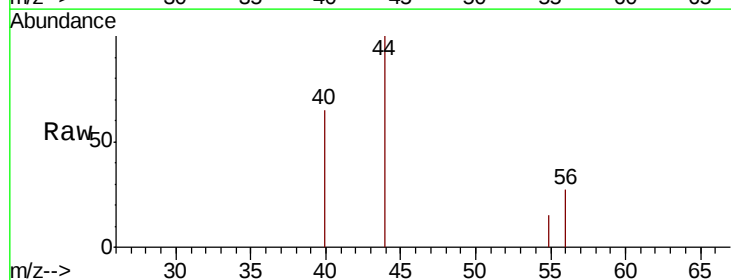
Instrument :
MSVOA_N
ClientSampleId :
TWP-02

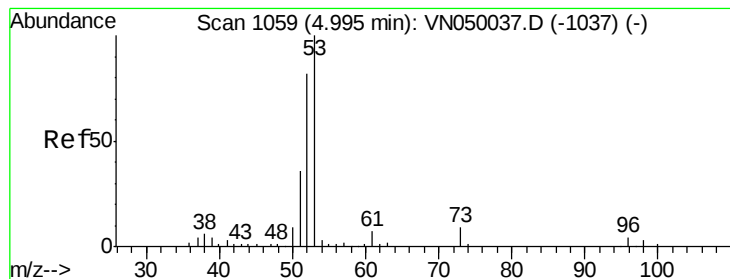
Tot Ion: 43 Resp: 5763
Ion Ratio Lower Upper
43 100
74 24.4 19.3 28.9



#13
Acrolein
Concen: 0.88 ug/l
RT: 3.61 min Scan# 629
Delta R.T. 0.00 min
Lab File: VN050771.D
Acq: 20 Aug 2018 13:56

Tgt Ion: 56 Resp: 357
Ion Ratio Lower Upper
56 100
55 30.5 58.6 88.0#





#14

Acrylonitrile

Concen: 0.21 ug/l

RT: 5.01 min Scan# 1063

Delta R.T. 0.01 min

Lab File: VN050771.D

Acq: 20 Aug 2018 13:56

Instrument :

MSVOA_N

ClientSampled :

TWP-02

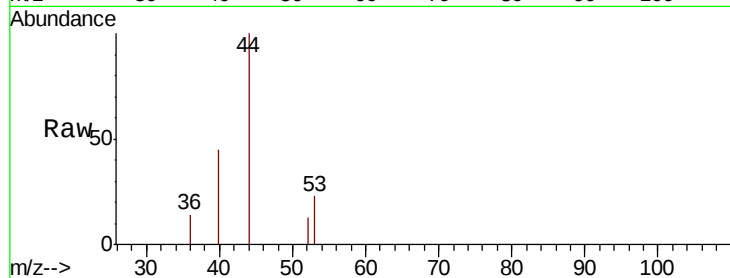
Tot Ion: 53 Resp: 464

Ion Ratio Lower Upper

53 100

52 31.0 41.5 124.5#

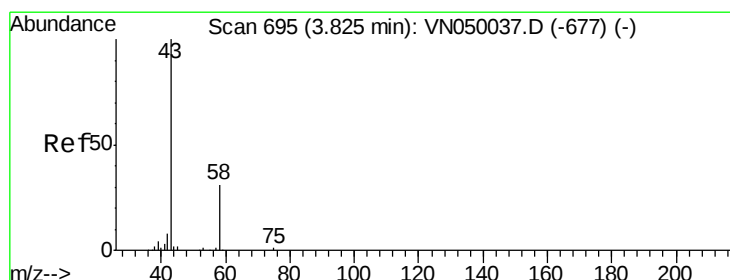
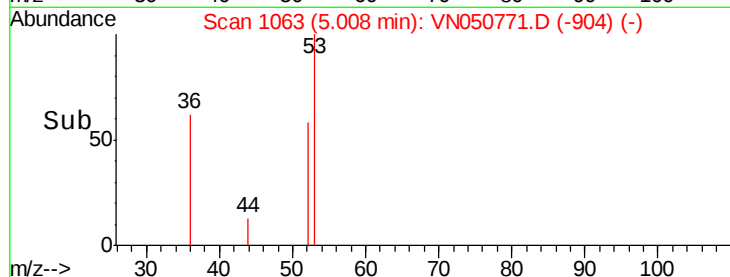
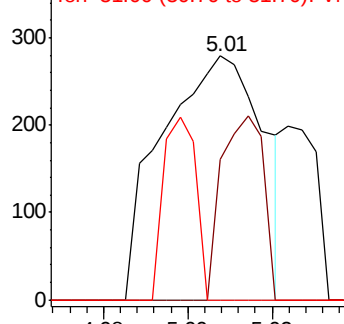
51 23.9 18.7 56.1



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#15

Acetone

Concen: 15.06 ug/l

RT: 3.82 min Scan# 695

Delta R.T. -0.00 min

Lab File: VN050771.D

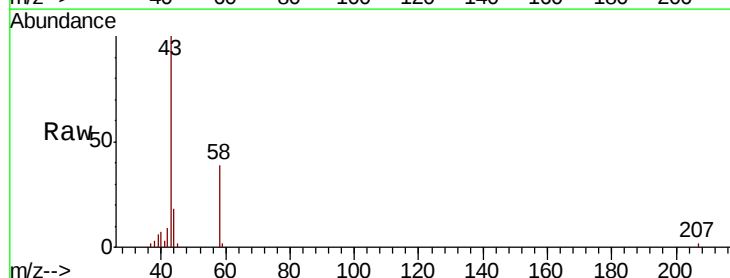
Acq: 20 Aug 2018 13:56

Tgt Ion: 58 Resp: 8806

Ion Ratio Lower Upper

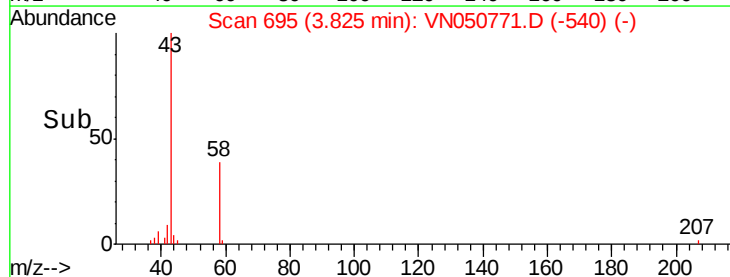
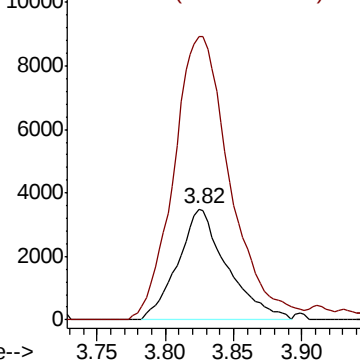
58 100

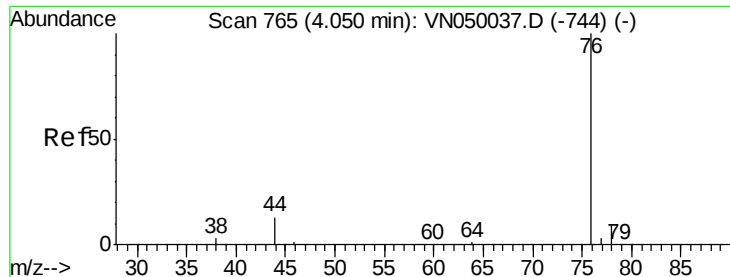
43 242.8 252.0 378.0#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

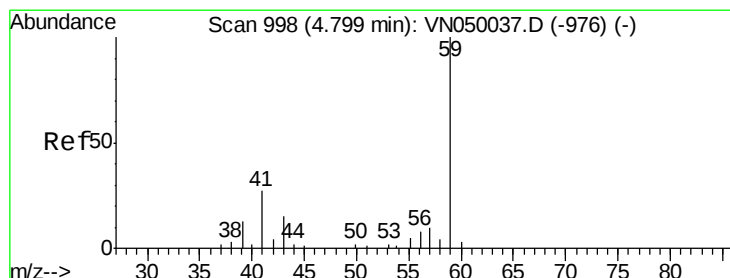
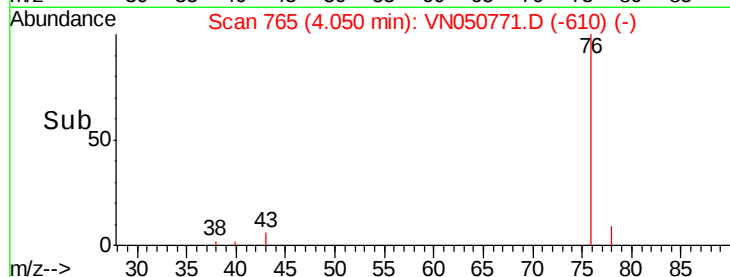
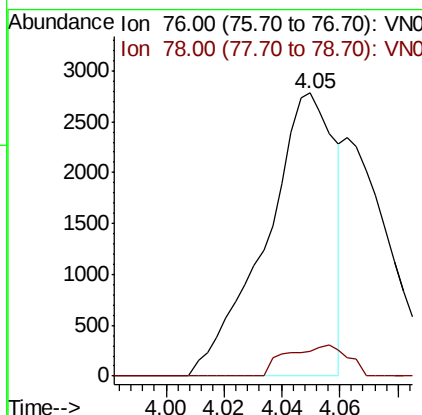
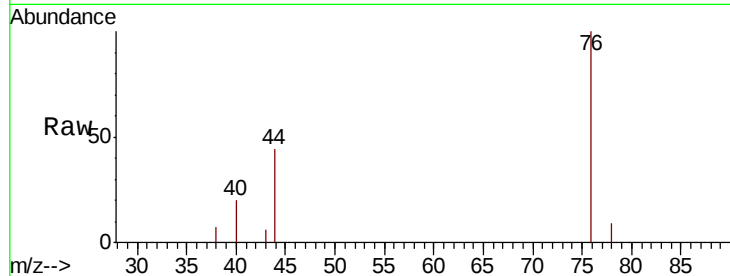




#16
Carbon Disulfide
Concen: 0.26 ug/l
RT: 4.05 min Scan# 765
Delta R.T. -0.00 min
Lab File: VN050771.D
Acq: 20 Aug 2018 13:56

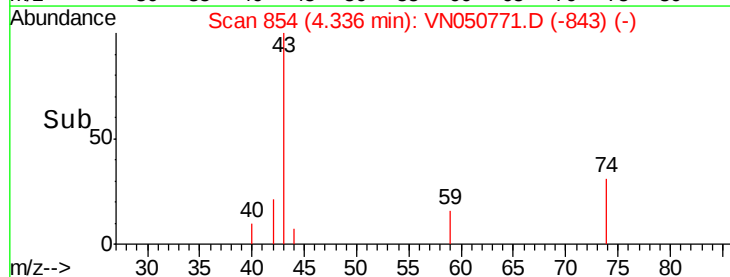
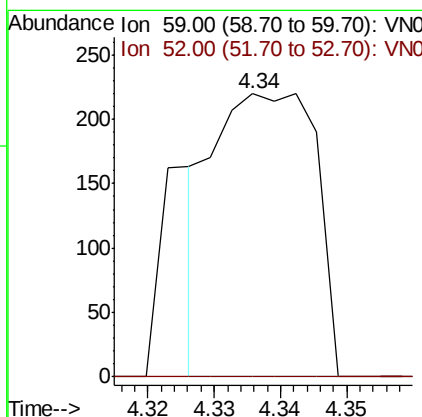
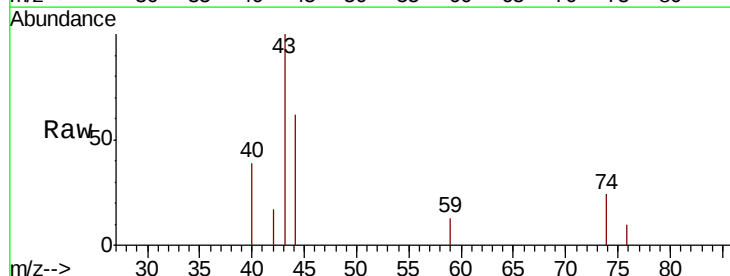
Instrument :
MSVOA_N
ClientSampled :
TWP-02

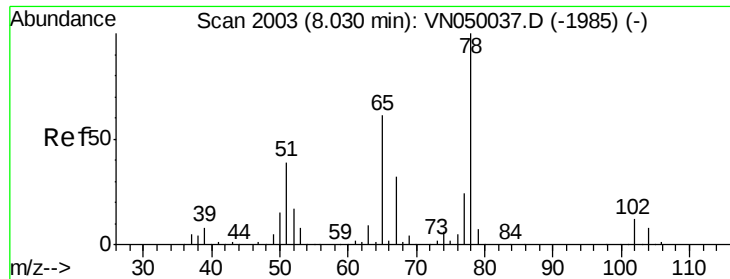
Tot Ion: 76 Resp: 4598
Ion Ratio Lower Upper
76 100
78 8.7 7.3 10.9



#23
tert-Butyl Alcohol
Concen: 0.48 ug/l
RT: 4.34 min Scan# 854
Delta R.T. -0.46 min
Lab File: VN050771.D
Acq: 20 Aug 2018 13:56

Tgt Ion: 59 Resp: 236
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#

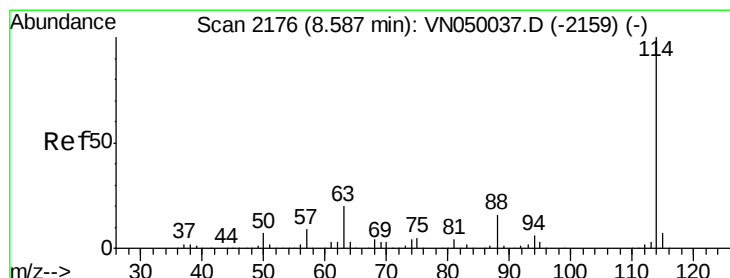
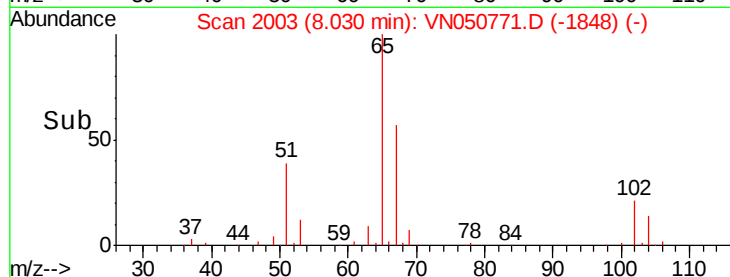
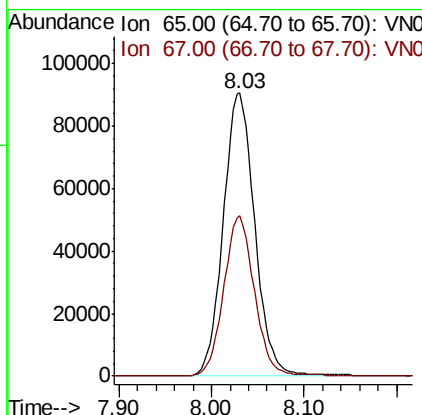
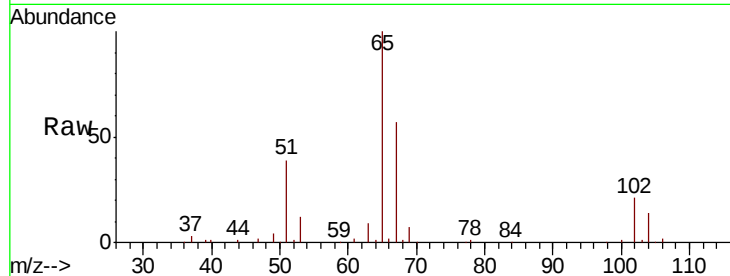




#27
 1,2-Dichloroethane-d4
 Concen: 29.11 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050771.D
 Acq: 20 Aug 2018 13:56

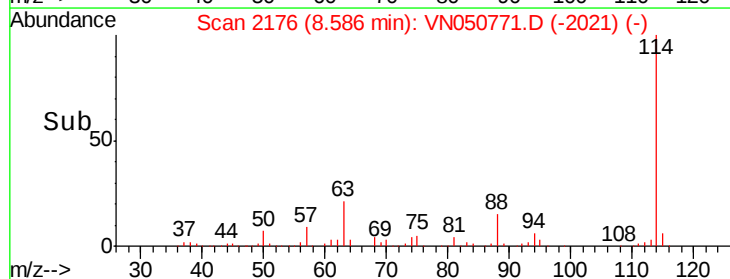
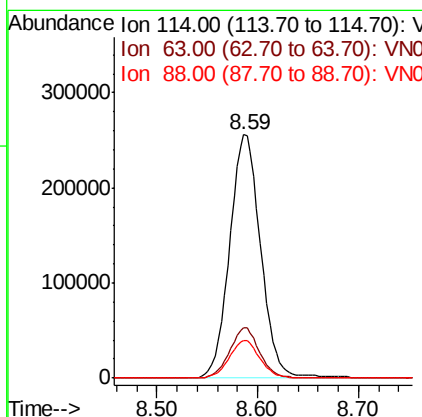
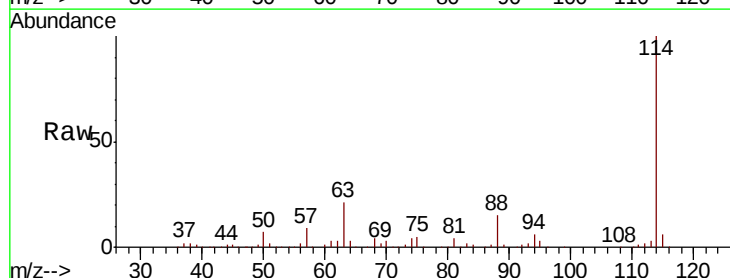
Instrument :
 MSVOA_N
 ClientSampled :
 TWP-02

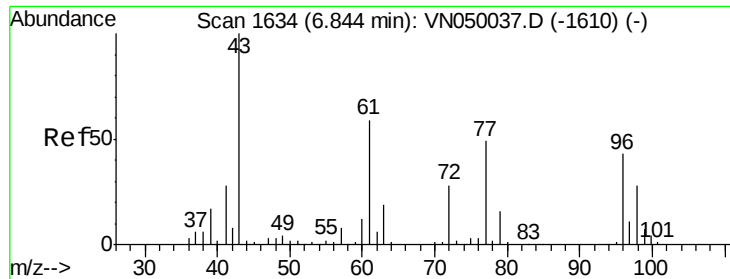
Tot Ion: 65 Resp: 213599
 Ion Ratio Lower Upper
 65 100
 67 55.0 42.7 64.1



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050771.D
 Acq: 20 Aug 2018 13:56

Tgt Ion: 114 Resp: 547609
 Ion Ratio Lower Upper
 114 100
 63 20.0 16.2 24.2
 88 15.2 12.3 18.5

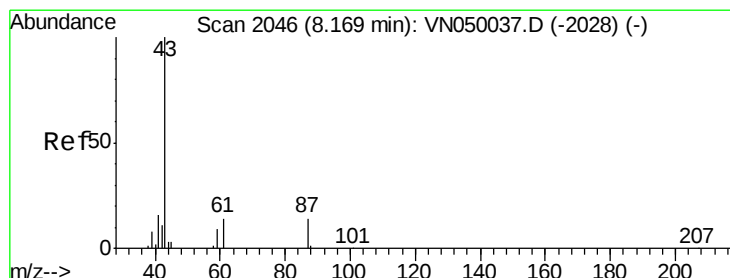
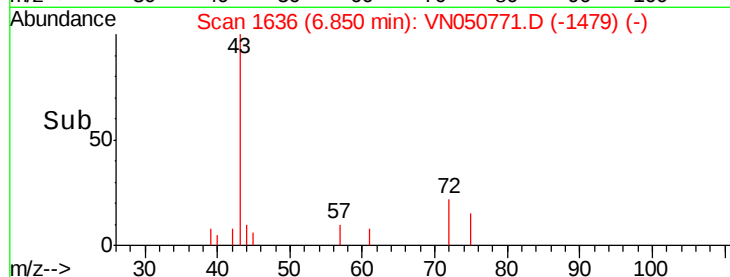
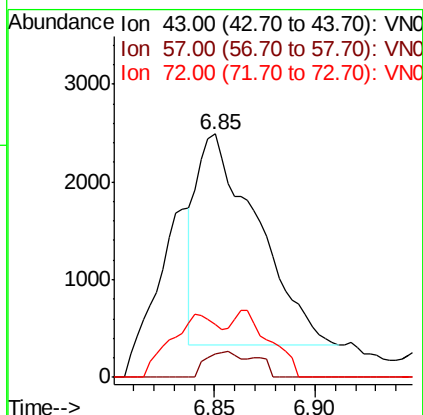
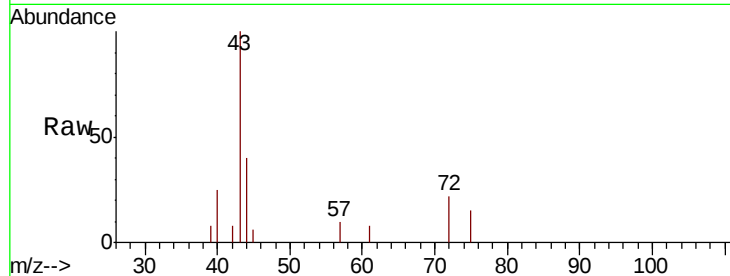




#30
 2-Butanone
 Concen: 1.70 ug/l
 RT: 6.85 min Scan# 1636
 Delta R.T. 0.01 min
 Lab File: VN050771.D
 Acq: 20 Aug 2018 13:56

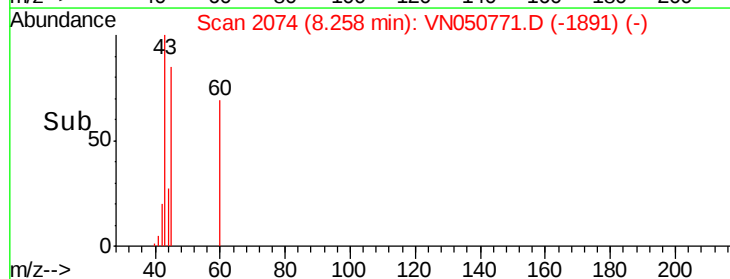
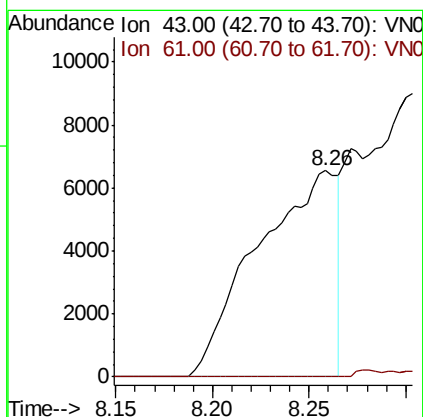
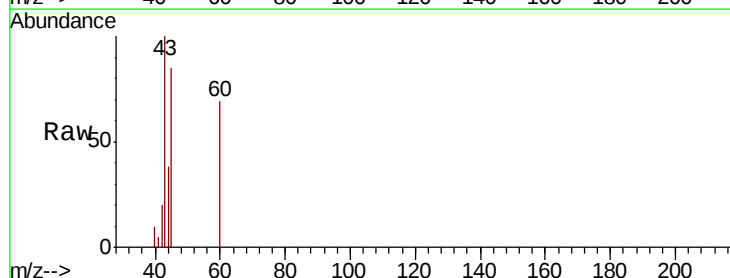
Instrument :
 MSVOA_N
 ClientSampled :
 TWP-02

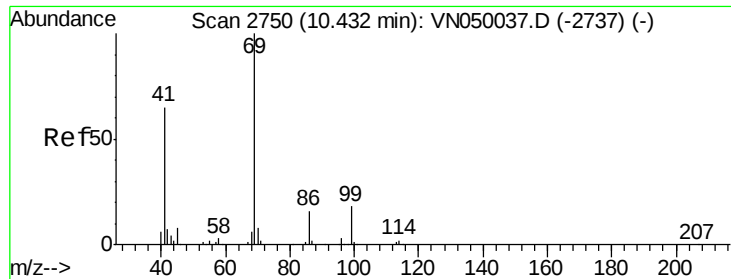
Tot Ion: 43 Resp: 4523
 Ion Ratio Lower Upper
 43 100
 57 7.4 6.8 10.2
 72 21.2 21.4 32.0#



#44
 Isopropyl Acetate
 Concen: 1.83 ug/l
 RT: 8.26 min Scan# 2074
 Delta R.T. 0.09 min
 Lab File: VN050771.D
 Acq: 20 Aug 2018 13:56

Tgt Ion: 43 Resp: 18829
 Ion Ratio Lower Upper
 43 100
 61 0.9 16.4 24.6#





#51

Ethyl methacrylate

Concen: 0.30 ug/l

RT: 10.10 min Scan# 2648

Delta R.T. -0.33 min

Lab File: VN050771.D

Acq: 20 Aug 2018 13:56

Instrument :

MSVOA_N

ClientSampled :

TWP-02

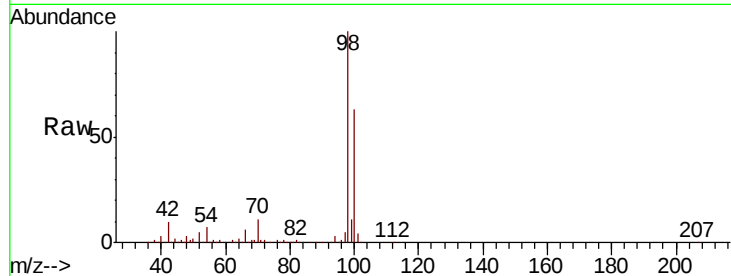
Tot Ion: 69 Resp: 2198

Ion Ratio Lower Upper

69 100

41 34.8 31.9 95.9

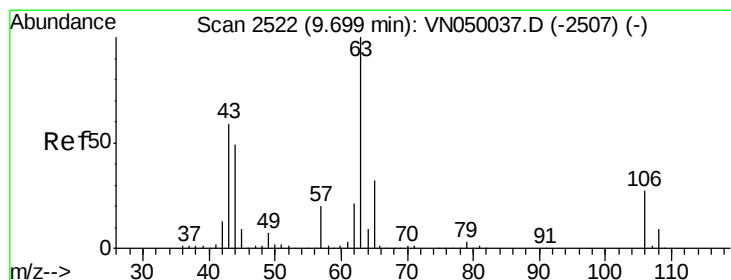
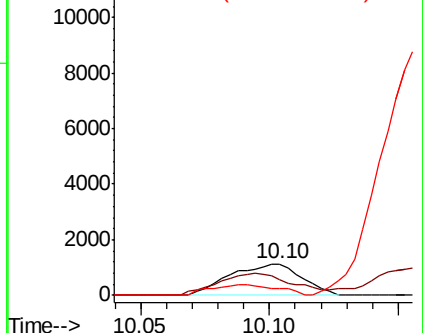
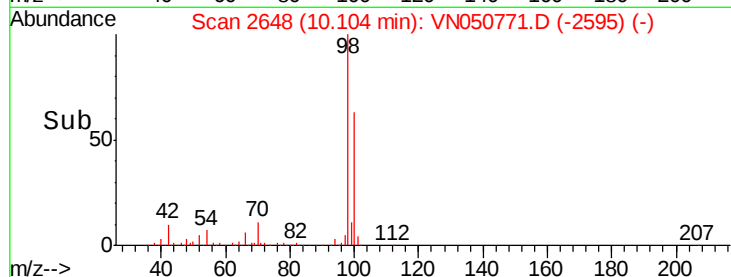
39 22.7 16.7 50.1



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#55

2-Chloroethyl vinyl ether

Concen: 0.35 ug/l

RT: 9.71 min Scan# 2526

Delta R.T. 0.01 min

Lab File: VN050771.D

Acq: 20 Aug 2018 13:56

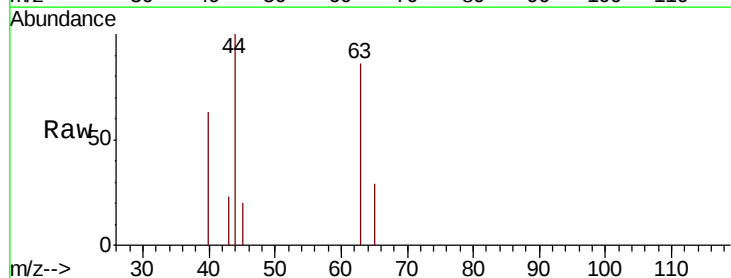
Tgt Ion: 63 Resp: 1157

Ion Ratio Lower Upper

63 100

65 26.8 25.5 38.3

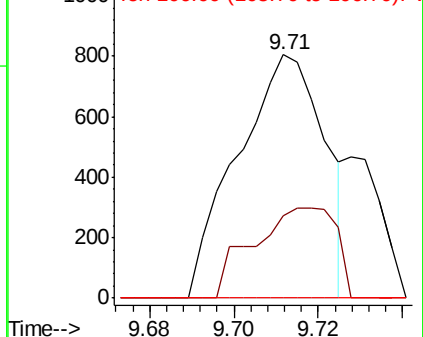
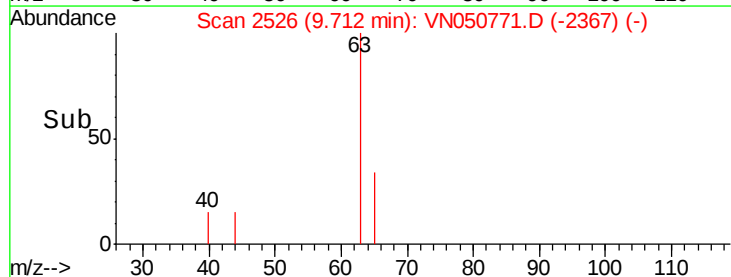
106 0.0 21.8 32.6#

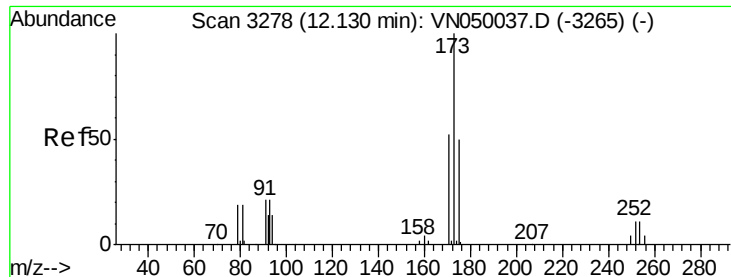


Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0

Ion 106.00 (105.70 to 106.70): V





#56

Bromoform

Concen: 0.24 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050771.D

Acq: 20 Aug 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

TWP-02

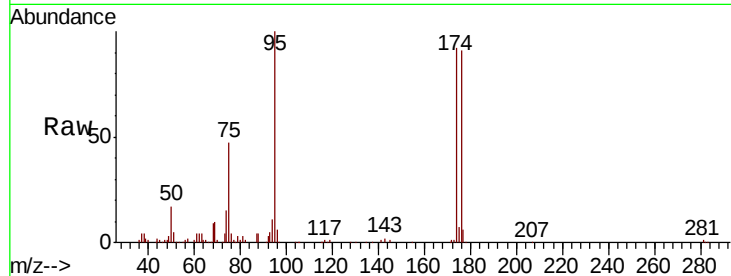
Tot Ion:173 Resp: 1164

Ion Ratio Lower Upper

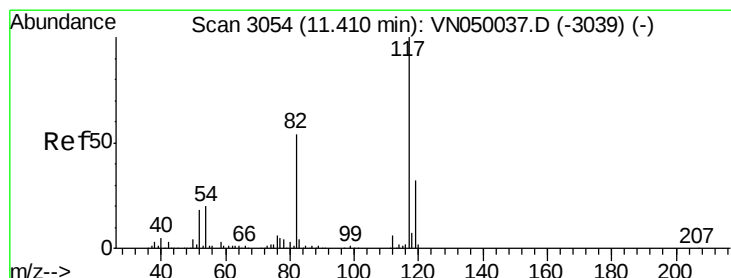
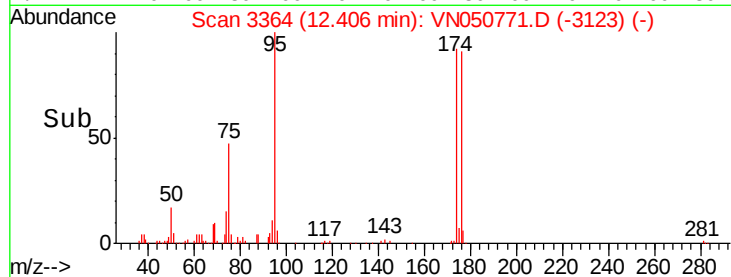
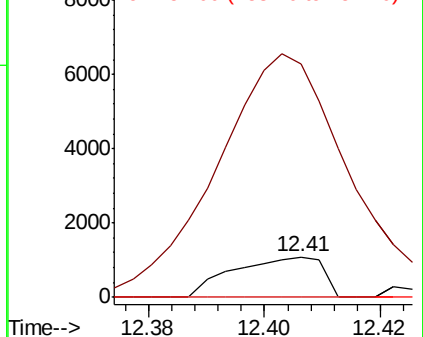
173 100

175 900.0 38.6 57.8#

254 0.0 8.8 13.2#



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050771.D

Acq: 20 Aug 2018 13:56

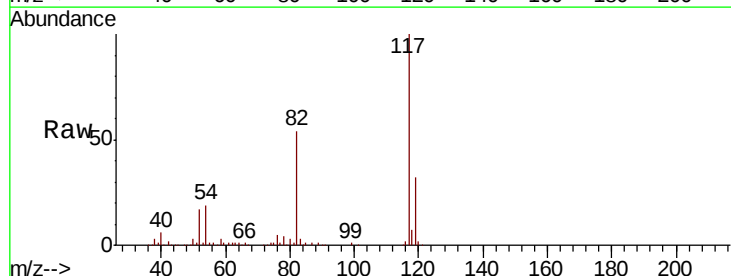
Tgt Ion:117 Resp: 465497

Ion Ratio Lower Upper

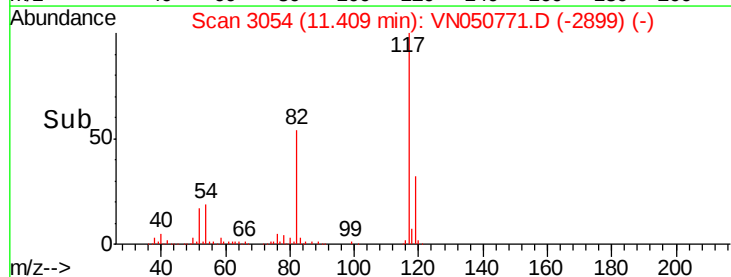
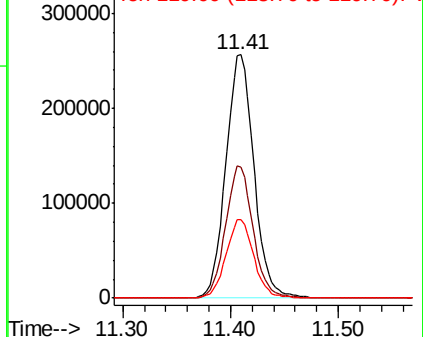
117 100

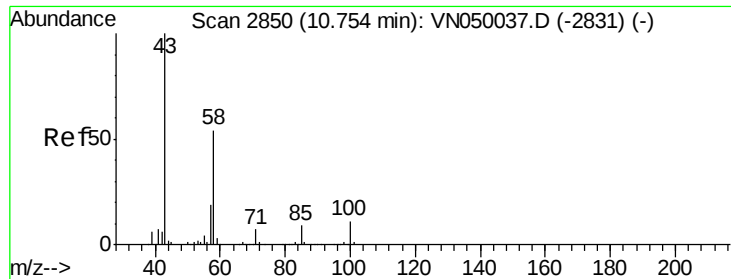
82 53.1 42.4 63.6

119 32.0 25.4 38.0



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

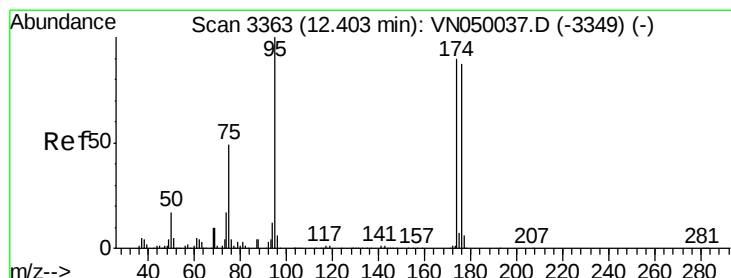
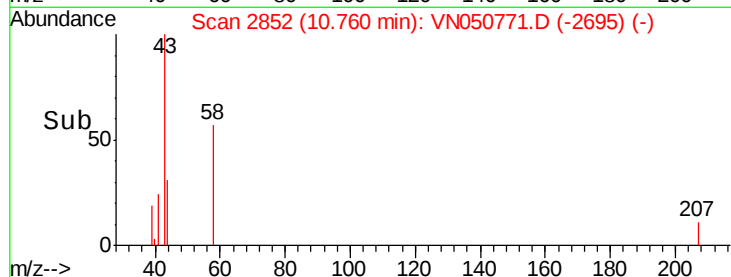
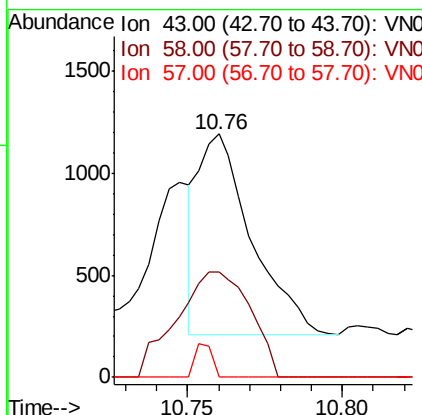
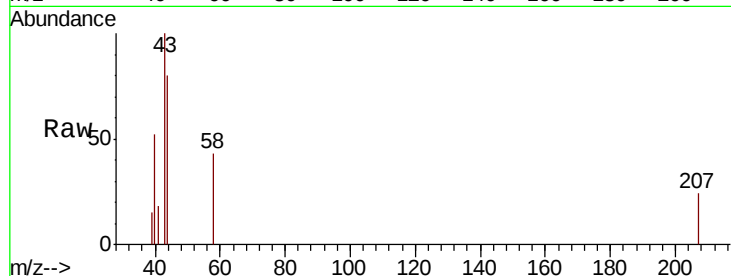




#59
2-Hexanone
Concen: 0.32 ug/l
RT: 10.76 min Scan# 2852
Delta R.T. 0.01 min
Lab File: VN050771.D
Acq: 20 Aug 2018 13:56

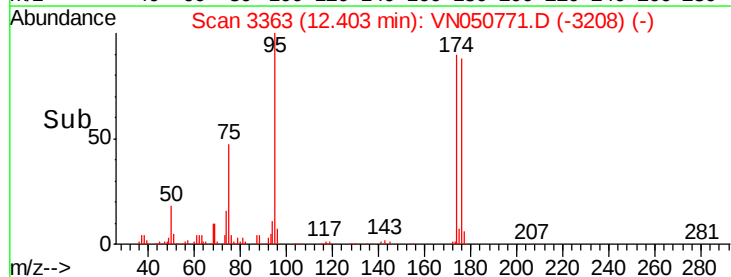
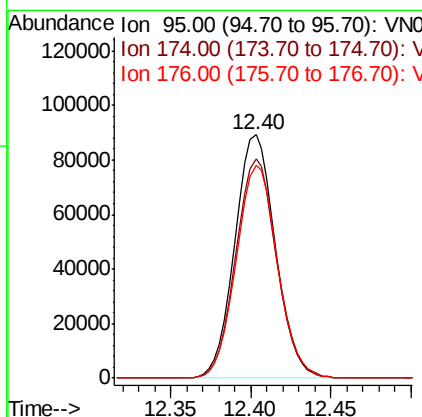
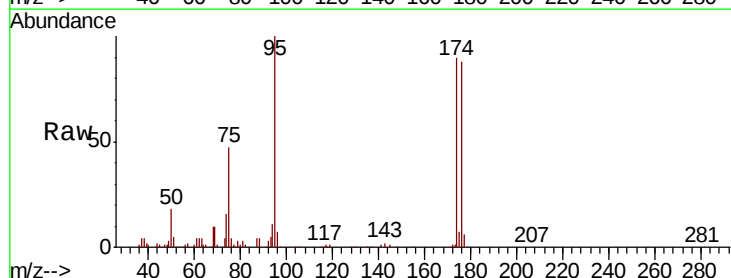
Instrument :
MSVOA_N
ClientSampleId :
TWP-02

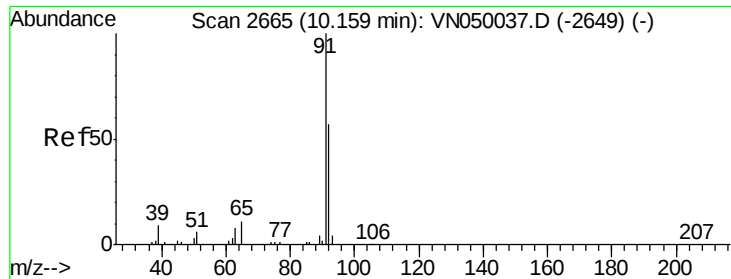
Tot Ion: 43 Resp: 1175
Ion Ratio Lower Upper
43 100
58 72.9 43.8 65.8#
57 5.2 15.1 22.7#



#60
4-Bromofluorobenzene
Concen: 21.53 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN050771.D
Acq: 20 Aug 2018 13:56

Tgt Ion: 95 Resp: 153984
Ion Ratio Lower Upper
95 100
174 91.1 72.3 108.5
176 88.6 70.0 105.0





#62

Toluene

Concen: 7.20 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050771.D

Acq: 20 Aug 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

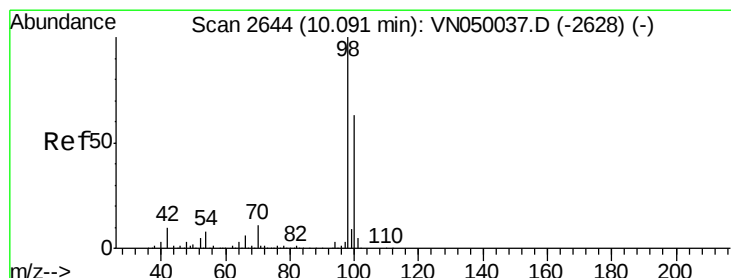
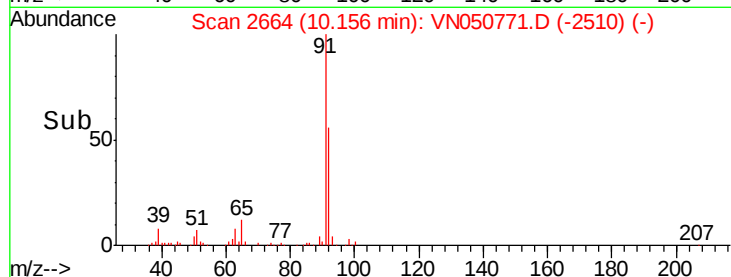
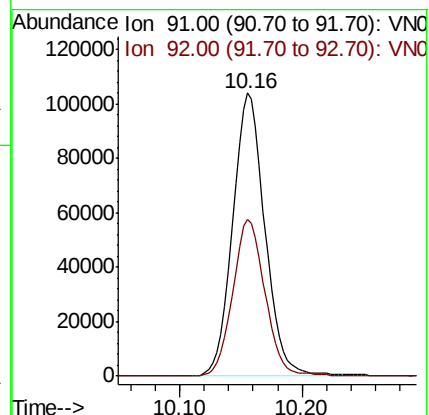
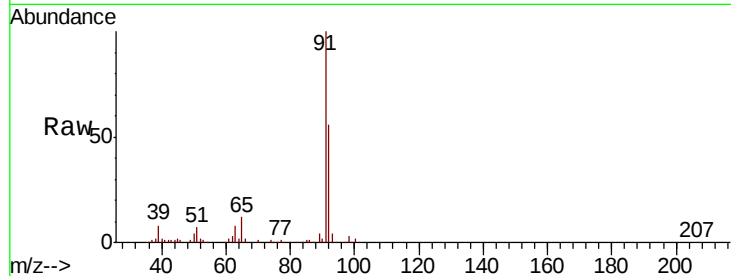
TWP-02

Tot Ion: 91 Resp: 191333

Ion Ratio Lower Upper

91 100

92 55.4 45.7 68.5



#63

Toluene-d8

Concen: 29.17 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050771.D

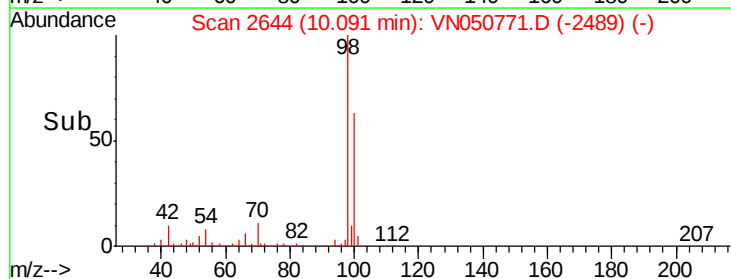
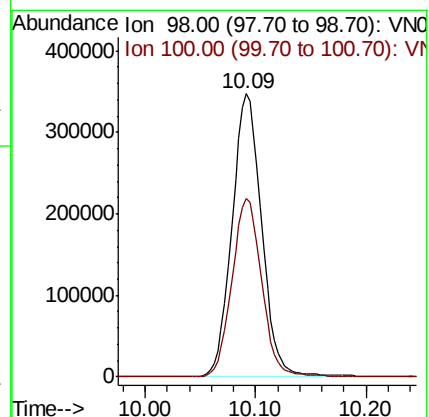
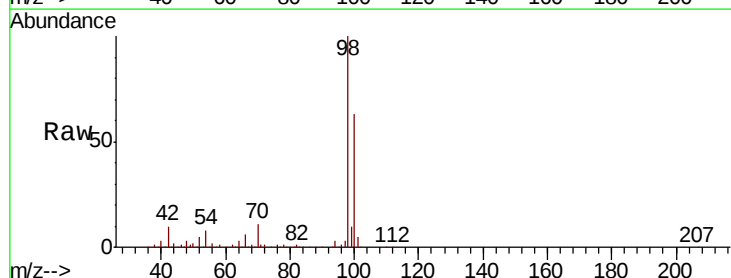
Acq: 20 Aug 2018 13:56

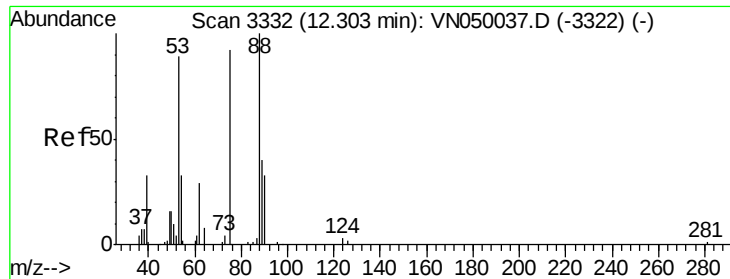
Tgt Ion: 98 Resp: 648480

Ion Ratio Lower Upper

98 100

100 63.2 51.2 76.8

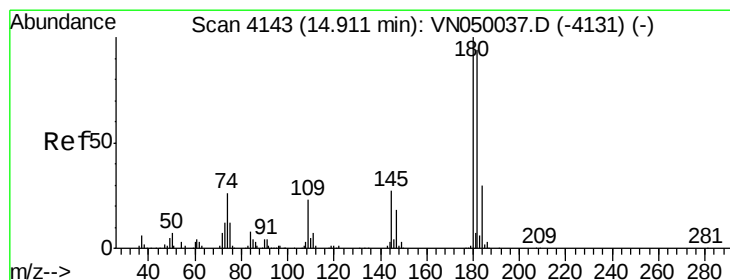
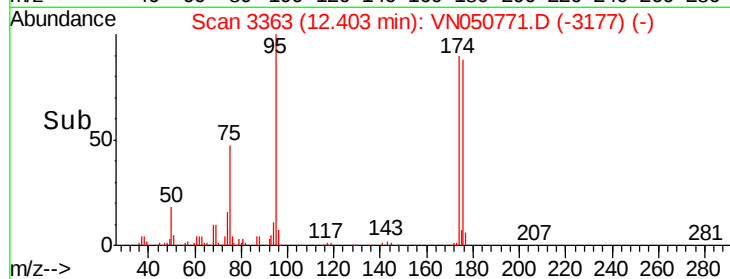
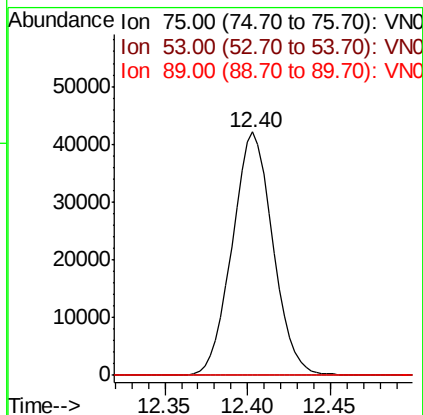
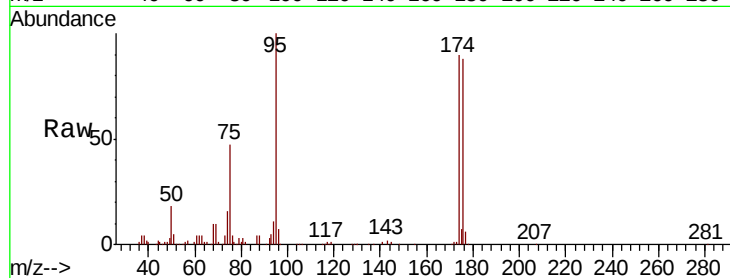




#77
t-1,4-Dichloro-2-butene
Concen: 35.37 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050771.D
Acq: 20 Aug 2018 13:56

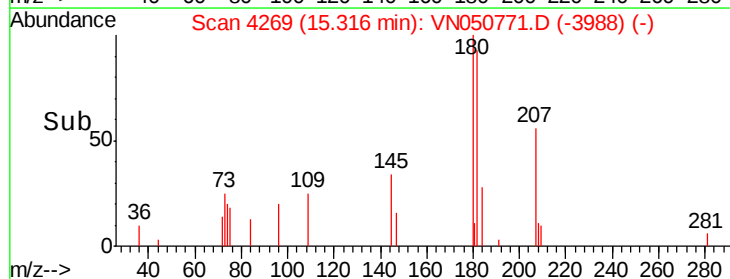
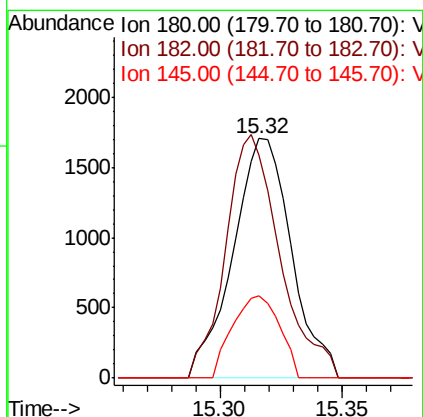
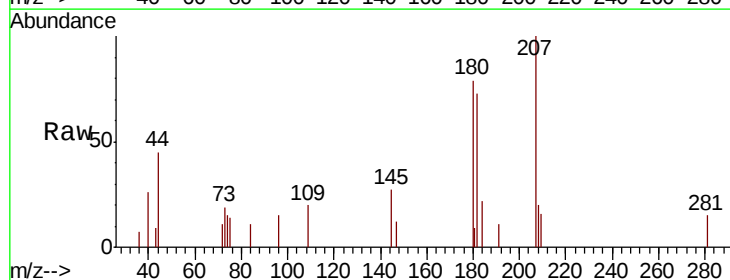
Instrument :
MSVOA_N
ClientSampled :
TWP-02

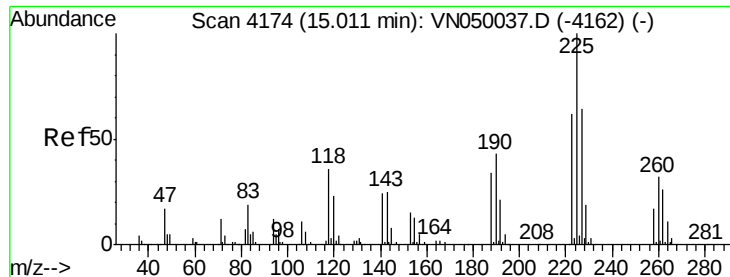
Tot Ion: 75 Resp: 71763
Ion Ratio Lower Upper
75 100
53 0.4 44.6 134.0#
89 0.0 20.7 62.1#



#89
1,2,4-Trichlorobenzene
Concen: 0.49 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.41 min
Lab File: VN050771.D
Acq: 20 Aug 2018 13:56

Tgt Ion: 180 Resp: 2834
Ion Ratio Lower Upper
180 100
182 94.5 76.7 115.1
145 27.6 23.4 35.0

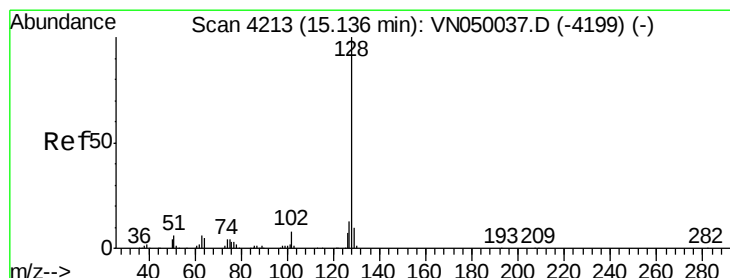
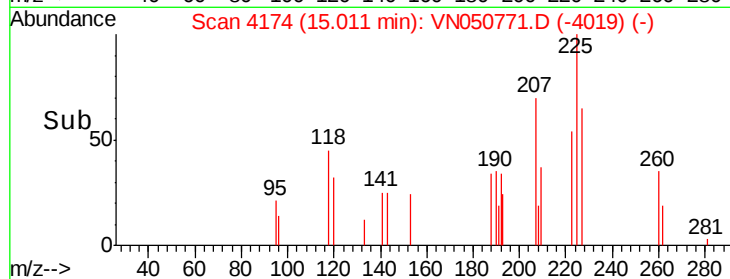
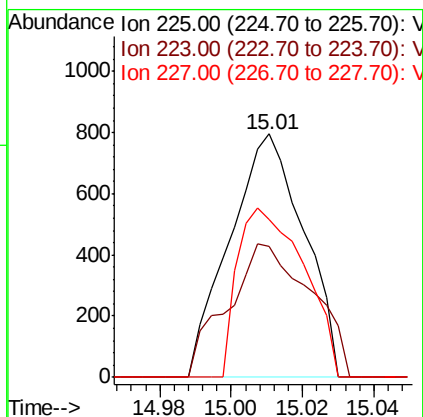
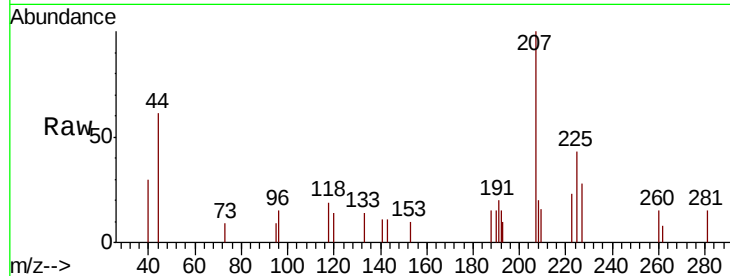




#90
Hexachlorobutadiene
Concen: 0.30 ug/l
RT: 15.01 min Scan# 4174
Delta R.T. -0.00 min
Lab File: VN050771.D
Acq: 20 Aug 2018 13:56

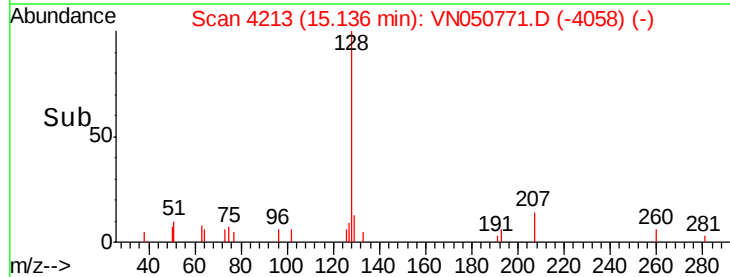
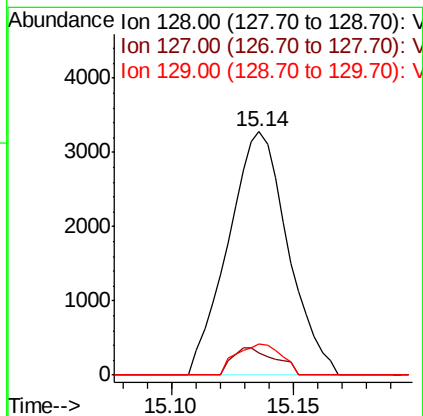
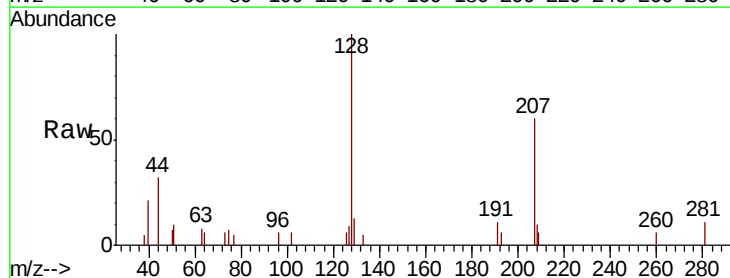
Instrument :
MSVOA_N
ClientSampled :
TWP-02

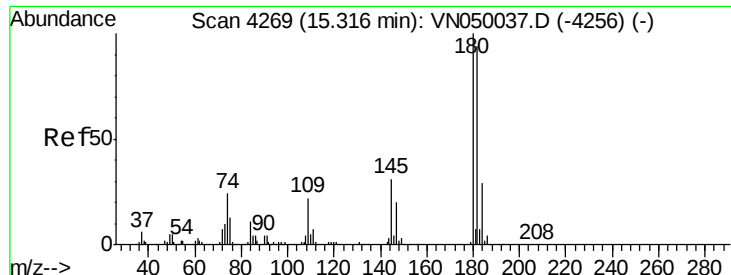
Tot Ion:	225	Resp:	1142
Ion	Ratio	Lower	Upper
225	100		
223	61.9	0.0	124.4
227	62.4	0.0	133.0



#91
Naphthalene
Concen: 7.95 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. -0.00 min
Lab File: VN050771.D
Acq: 20 Aug 2018 13:56

Tgt Ion:	128	Resp:	5558
Ion	Ratio	Lower	Upper
128	100		
127	7.6	10.2	15.4#
129	9.6	9.0	13.4

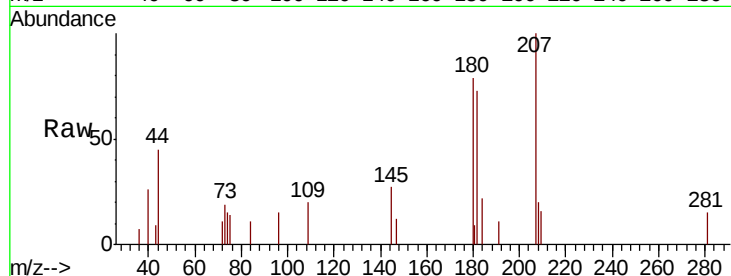




#92
 1,2,3-Trichlorobenzene
 Concen: 0.49 ug/l
 RT: 15.32 min Scan# 4269
 Delta R.T. -0.00 min
 Lab File: VN050771.D
 Acq: 20 Aug 2018 13:56

Instrument :
 MSVOA_N
 ClientSampleId :
 TWP-02

Tot Ion:180 Resp: 2834
 Ion Ratio Lower Upper
 180 100
 182 94.5 0.0 188.8
 145 27.6 0.0 60.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

