

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083019\
 Data File : VN057587.D
 Acq On : 30 Aug 2019 14:18
 Operator : JC/SP
 Sample : K4555-23
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TW-10-DEP

Quant Time: Aug 31 00:07:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N083019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Aug 31 00:00:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	77692	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	452189	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	345349	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	188963	31.57	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.23%
60) 4-Bromofluorobenzene	12.40	95	111789	21.29	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	70.97%
63) Toluene-d8	10.08	98	524481	32.79	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	109.30%

Target Compounds

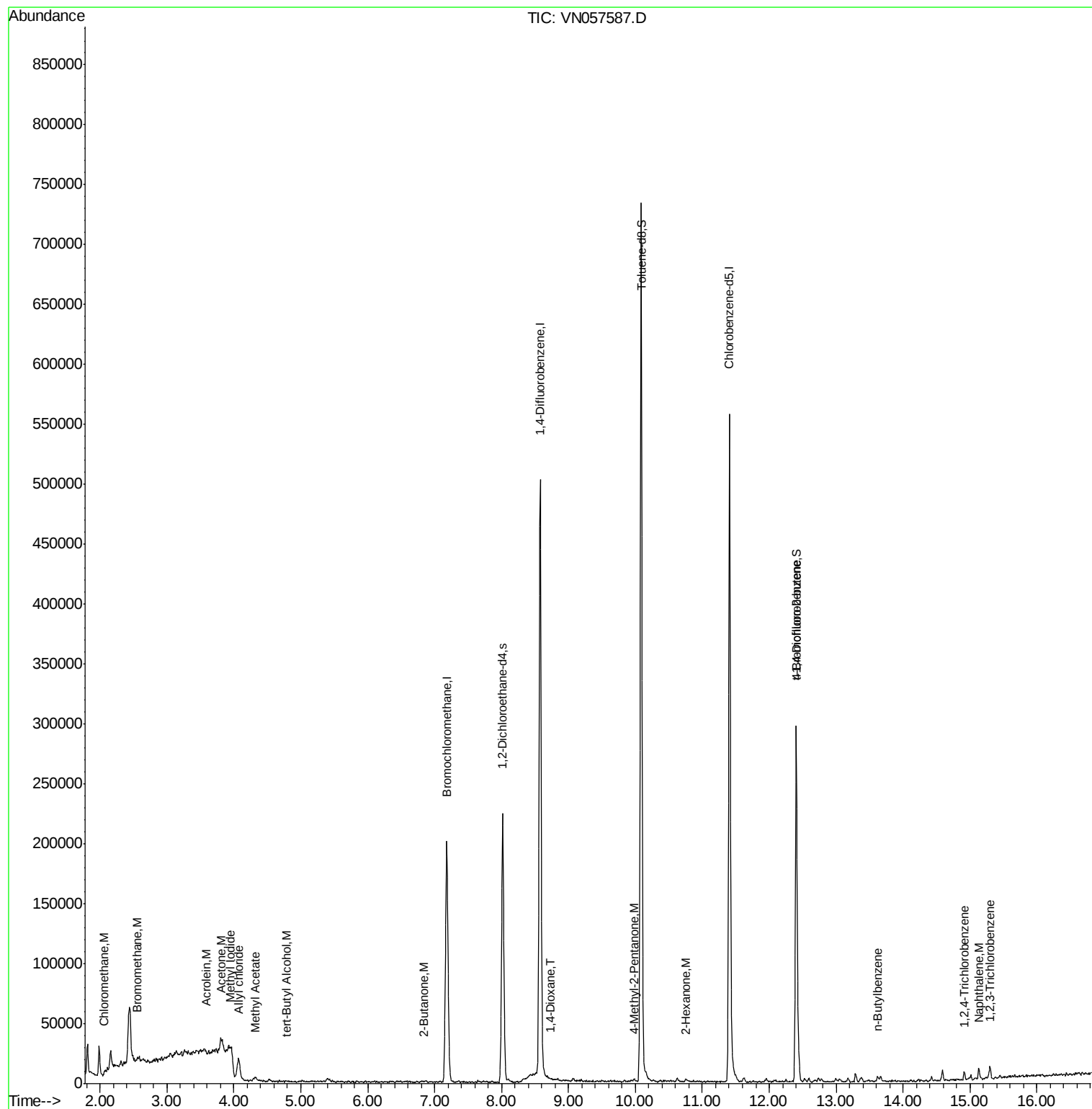
					Qvalue
3) Chloromethane	2.06	50	2109	0.577 ug/l	88
5) Bromomethane	2.57	94	2081	0.399 ug/l	98
11) Methyl Iodide	3.94	142	3253	0.273 ug/l #	86
12) Methyl Acetate	4.31	43	1180	0.318 ug/l #	80
13) Acrolein	3.59	56	378	0.798 ug/l	99
15) Acetone	3.81	58	1915	2.430 ug/l	69
17) Allyl chloride	4.07	41	2249	0.457 ug/l	71
23) tert-Butyl Alcohol	4.80	59	339	0.626 ug/l #	100
30) 2-Butanone	6.83	43	559	0.282 ug/l #	94
45) 1,4-Dioxane	8.72	88	196	2.973 ug/l #	43
58) 4-Methyl-2-Pentanone	9.98	43	1444	0.414 ug/l #	61
59) 2-Hexanone	10.75	43	1524	0.618 ug/l #	82
77) t-1,4-Dichloro-2-butene	12.40	75	62504	46.038 ug/l #	8
85) n-Butylbenzene	13.62	91	3210	0.260 ug/l	91
89) 1,2,4-Trichlorobenzene	14.92	180	2566	0.923 ug/l #	95
91) Naphthalene	15.13	128	7586	0.980 ug/l #	93
92) 1,2,3-Trichlorobenzene	15.30	180	2986	1.084 ug/l	87

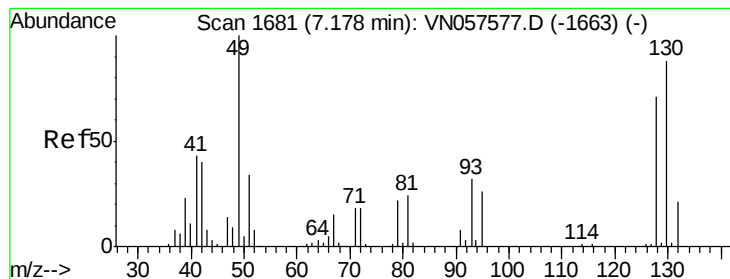
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Aug 31 00:00:09 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. 0.00 min

Lab File: VN057587.D

Acq: 30 Aug 2019 14:18

Instrument :

MSVOA_N

ClientSampled :

TW-10-DEP

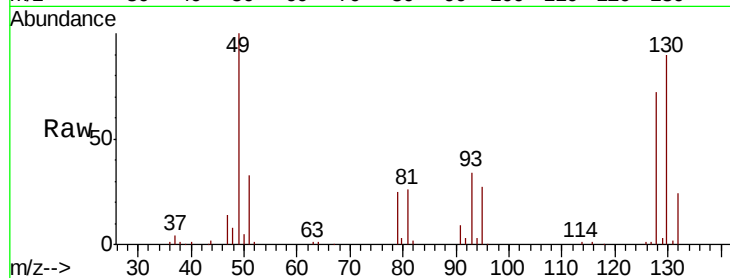
Tgt Ion:128 Resp: 77692

Ion Ratio Lower Upper

128 100

49 142.5 0.0 352.3

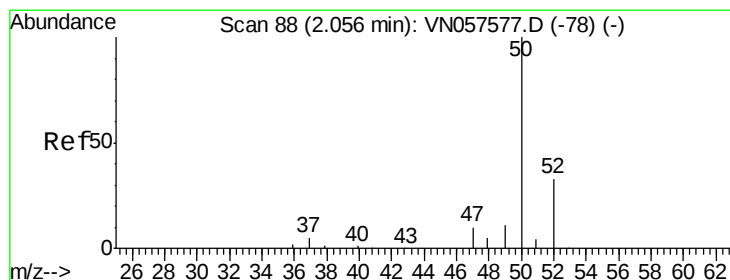
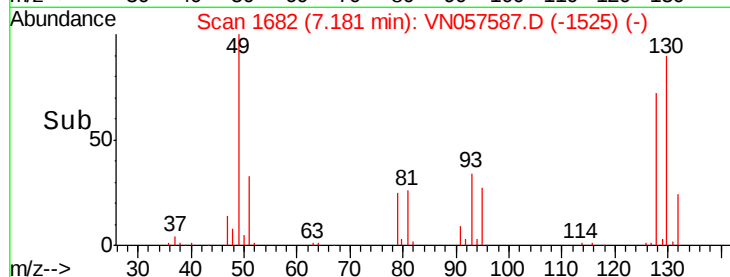
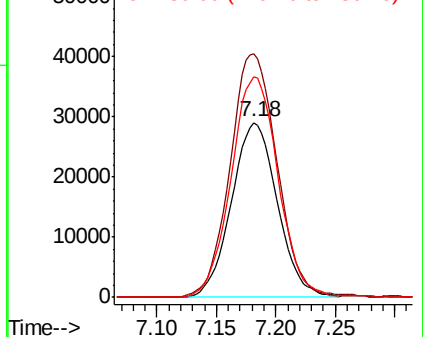
130 129.1 0.0 324.7



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: 0.577 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN057587.D

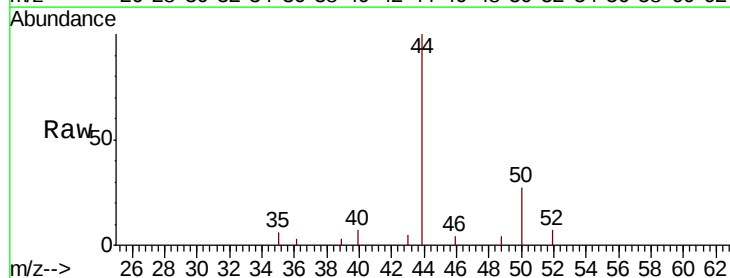
Acq: 30 Aug 2019 14:18

Tgt Ion: 50 Resp: 2109

Ion Ratio Lower Upper

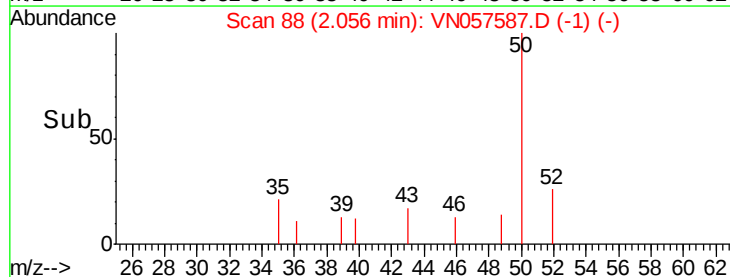
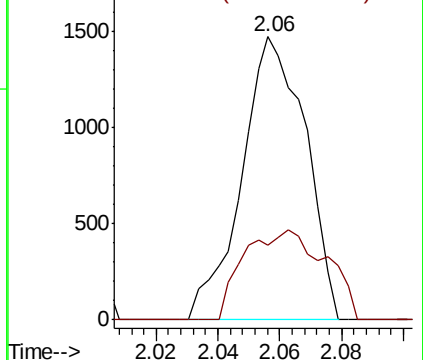
50 100

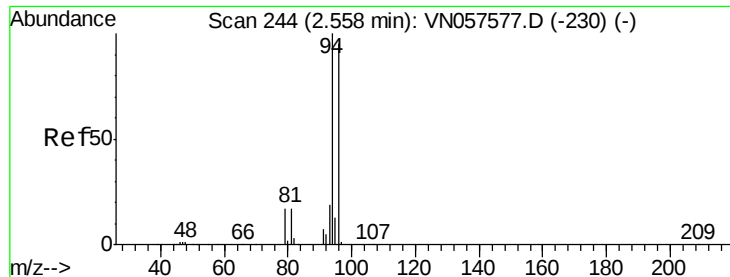
52 26.2 26.2 39.2



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.399 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN057587.D

Acq: 30 Aug 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

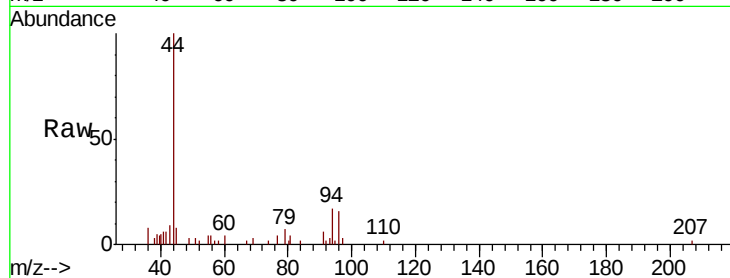
TW-10-DEP

Tgt Ion: 94 Resp: 2081

Ion Ratio Lower Upper

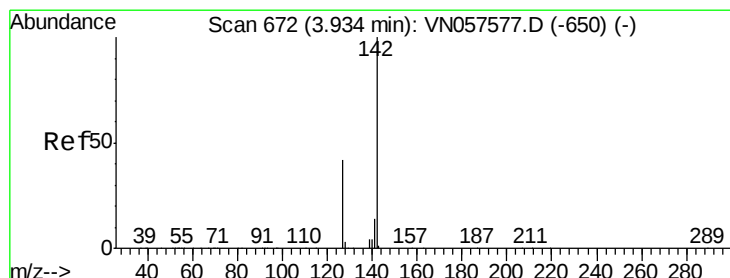
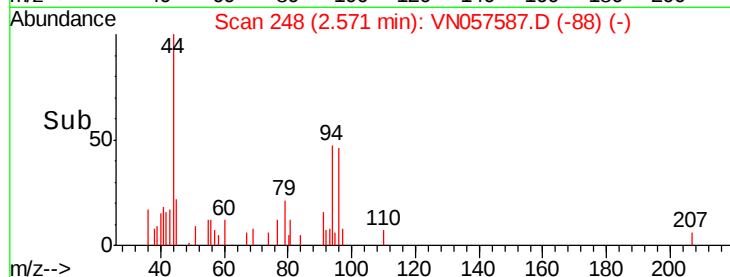
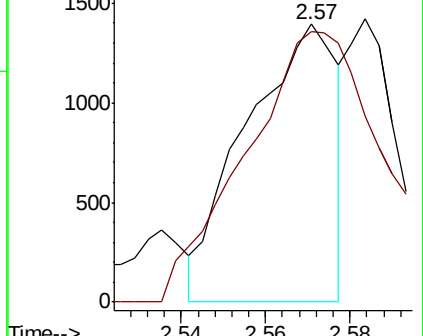
94 100

96 92.9 76.2 114.4



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#11

Methyl Iodide

Concen: 0.273 ug/l

RT: 3.94 min Scan# 674

Delta R.T. 0.01 min

Lab File: VN057587.D

Acq: 30 Aug 2019 14:18

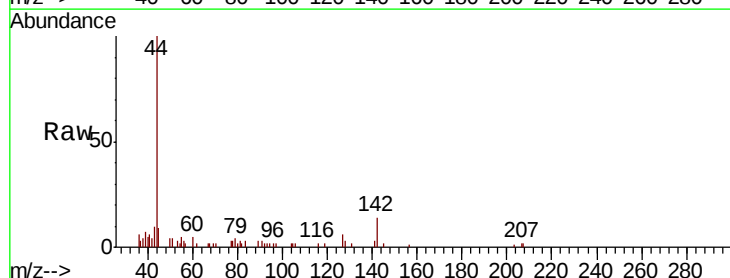
Tgt Ion: 142 Resp: 3253

Ion Ratio Lower Upper

142 100

127 40.4 20.8 62.4

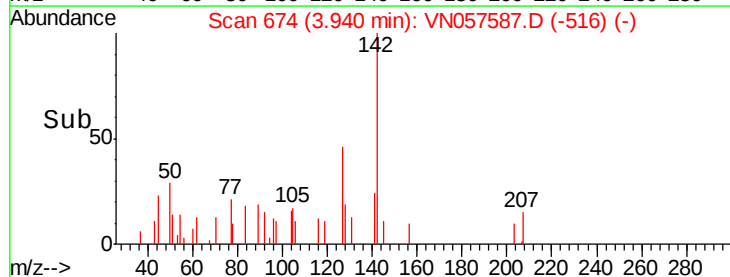
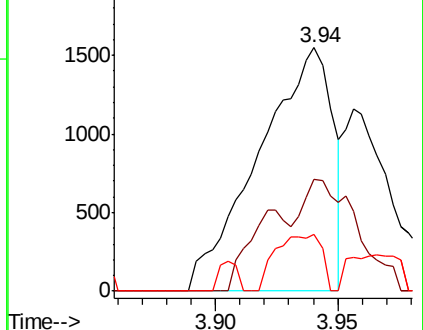
141 34.2 6.8 20.4#

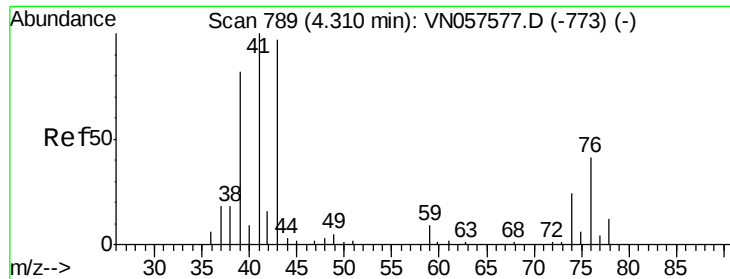


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

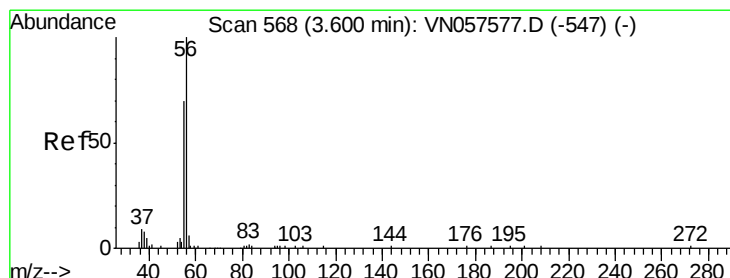
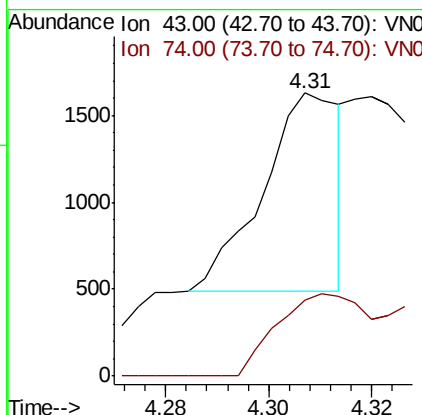
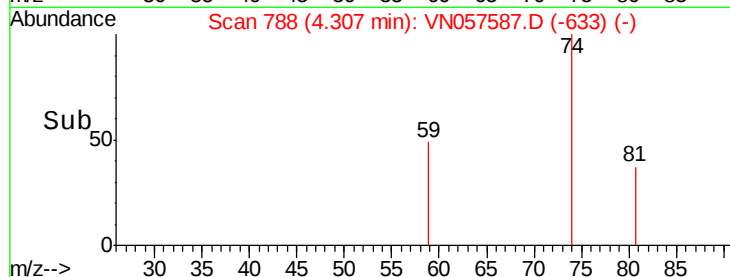
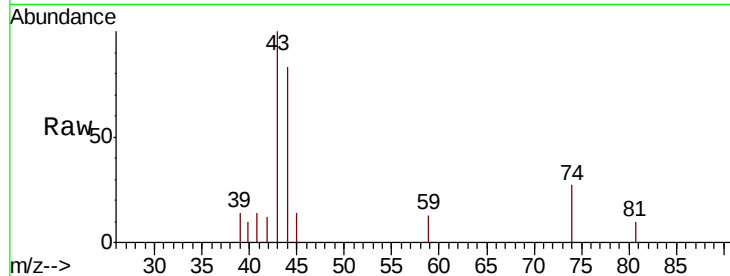




#12
Methyl Acetate
Concen: 0.318 ug/l
RT: 4.31 min Scan# 788
Delta R.T. -0.00 min
Lab File: VN057587.D
Acq: 30 Aug 2019 14:18

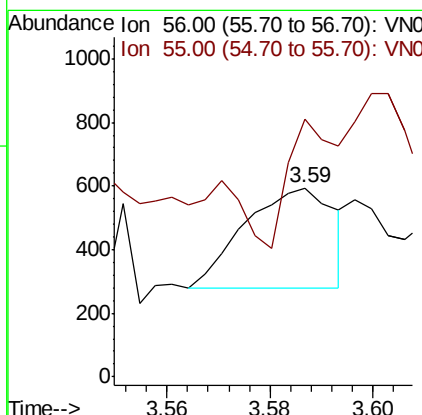
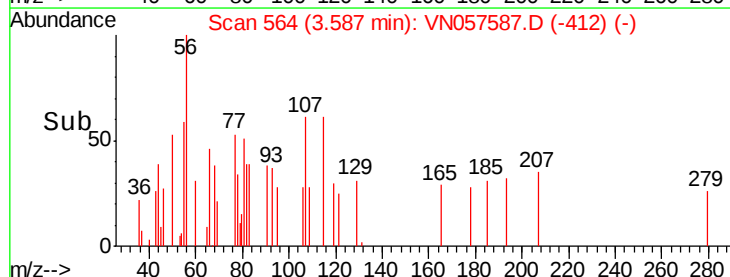
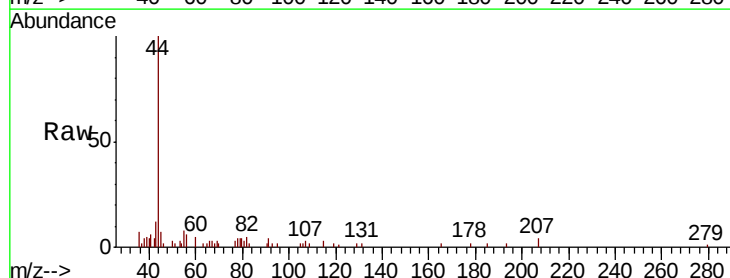
Instrument :
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TW-10-DEP

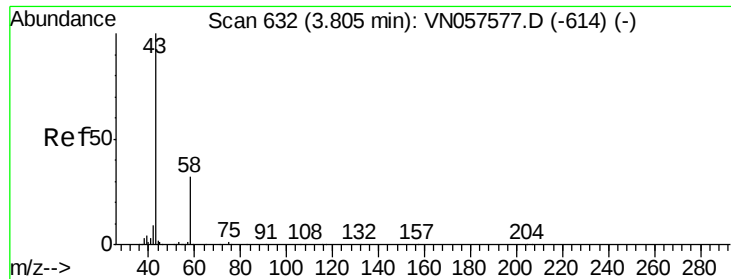
Tgt Ion: 43 Resp: 1180
Ion Ratio Lower Upper
43 100
74 34.3 19.6 29.4#



#13
Acrolein
Concen: 0.798 ug/l
RT: 3.59 min Scan# 564
Delta R.T. -0.01 min
Lab File: VN057587.D
Acq: 30 Aug 2019 14:18

Tgt Ion: 56 Resp: 378
Ion Ratio Lower Upper
56 100
55 68.8 54.5 81.7

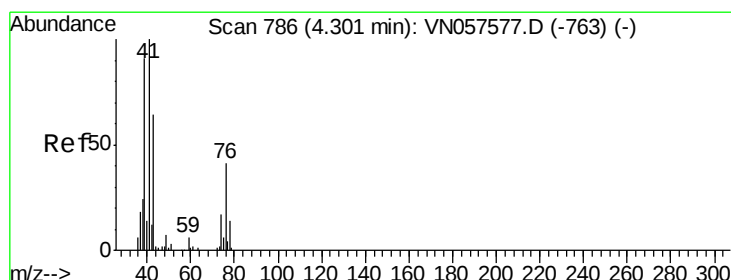
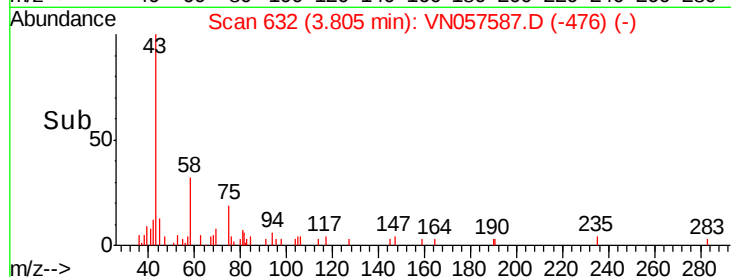
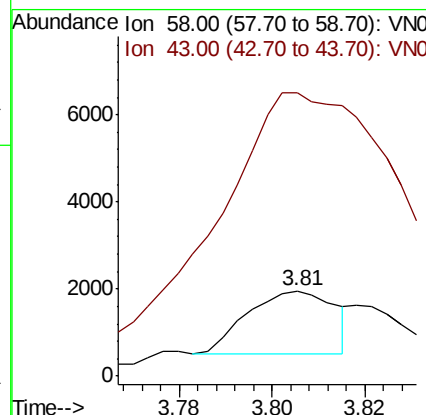
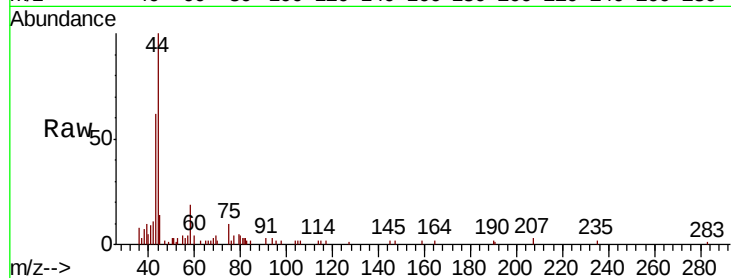




#15
Acetone
Concen: 2.430 ug/l
RT: 3.81 min Scan# 632
Delta R.T. 0.00 min
Lab File: VN057587.D
Acq: 30 Aug 2019 14:18

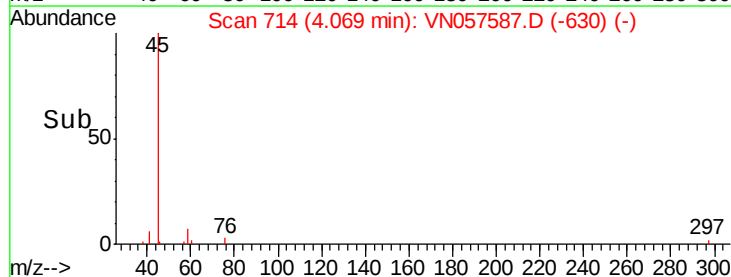
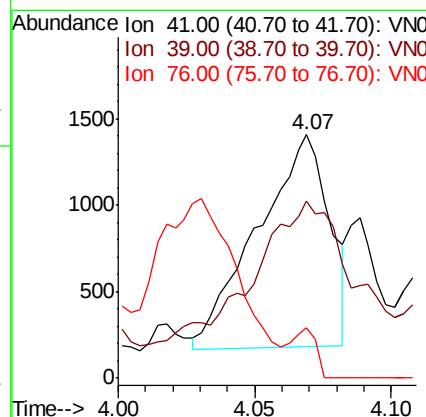
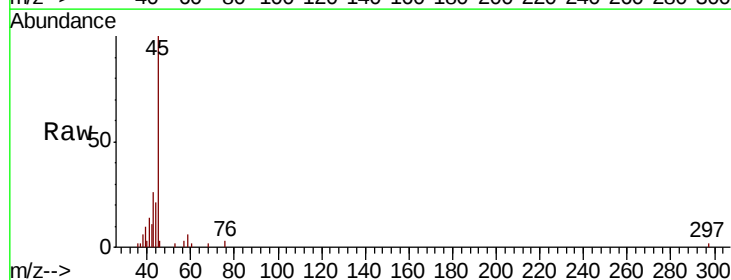
Instrument :
MSVOA_N
ClientSampleId :
TW-10-DEP

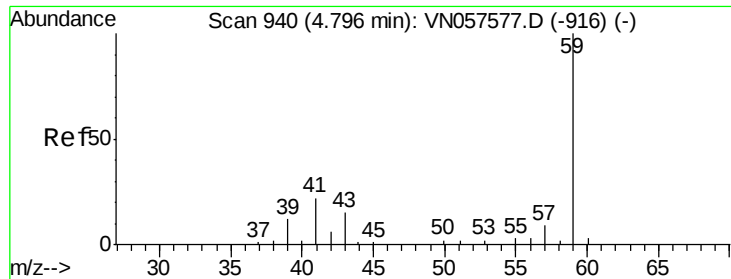
Tgt Ion: 58 Resp: 1915
Ion Ratio Lower Upper
58 100
43 254.0 252.8 379.2



#17
Allyl chloride
Concen: 0.457 ug/l
RT: 4.07 min Scan# 714
Delta R.T. -0.23 min
Lab File: VN057587.D
Acq: 30 Aug 2019 14:18

Tgt Ion: 41 Resp: 2249
Ion Ratio Lower Upper
41 100
39 60.1 44.6 134.0
76 25.0 19.8 59.3



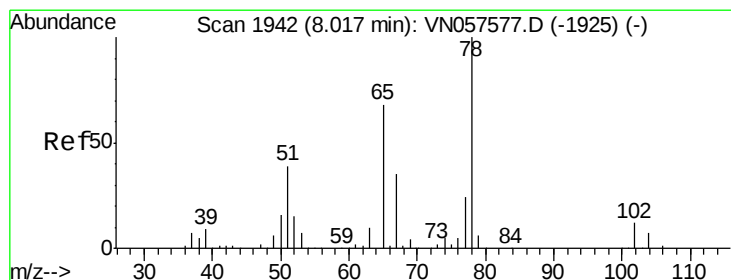
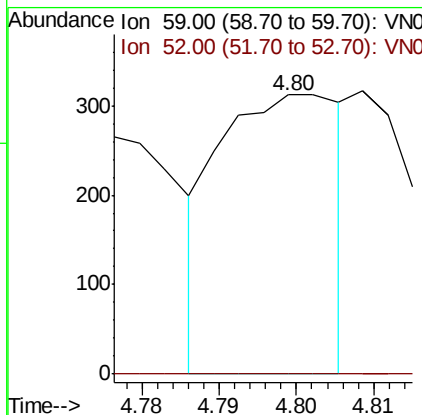
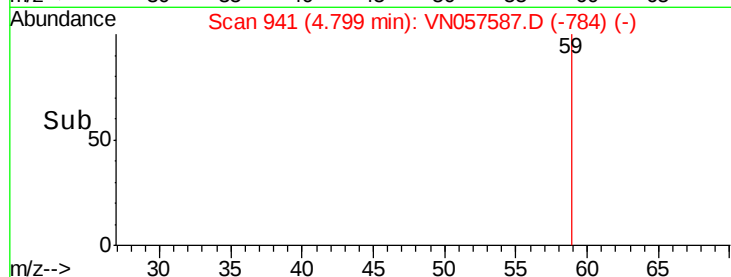
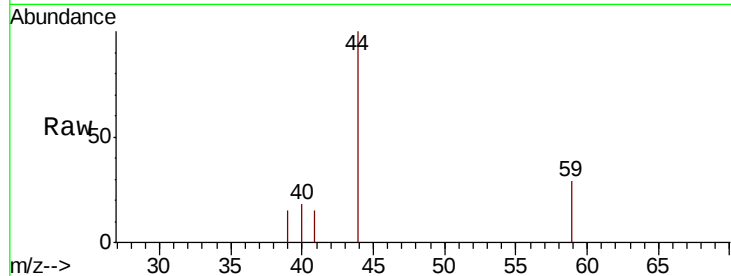


#23

tert-Butyl Alcohol
 Concen: 0.626 ug/l
 RT: 4.80 min Scan# 941
 Delta R.T. 0.00 min
 Lab File: VN057587.D
 Acq: 30 Aug 2019 14:18

Instrument :
 MSVOA_N
 ClientSampleId :
 TW-10-DEP

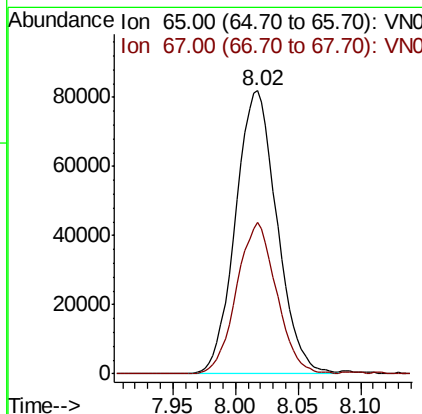
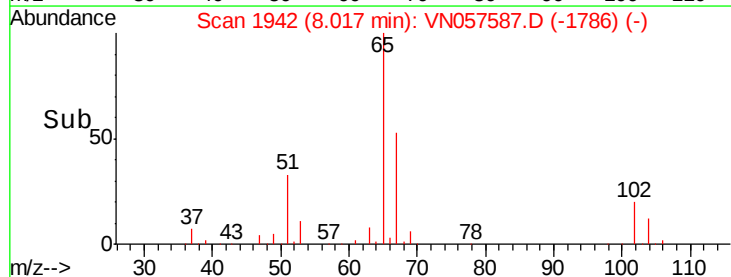
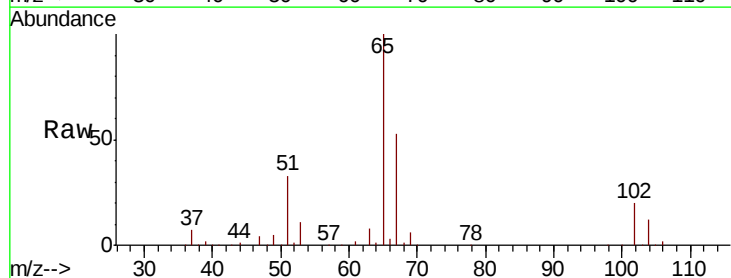
Tgt Ion: 59 Resp: 339
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.1 0.1#

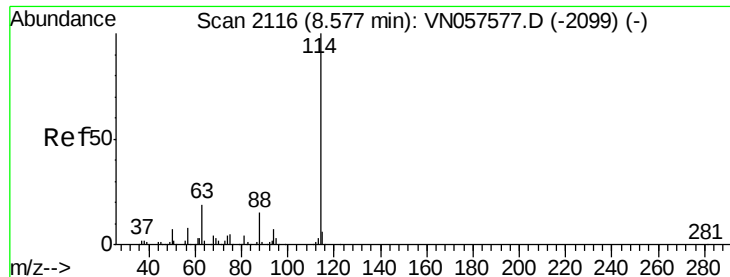


#27

1,2-Dichloroethane-d4
 Concen: 31.566 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.00 min
 Lab File: VN057587.D
 Acq: 30 Aug 2019 14:18

Tgt Ion: 65 Resp: 188963
 Ion Ratio Lower Upper
 65 100
 67 51.5 39.8 59.6

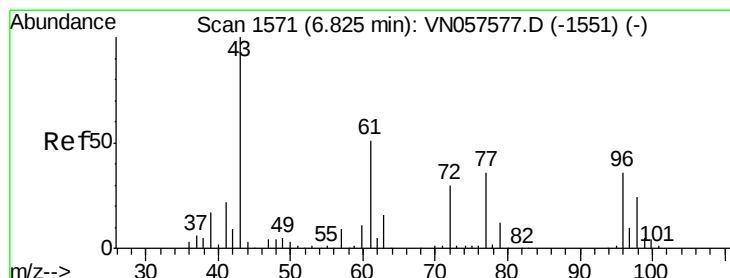
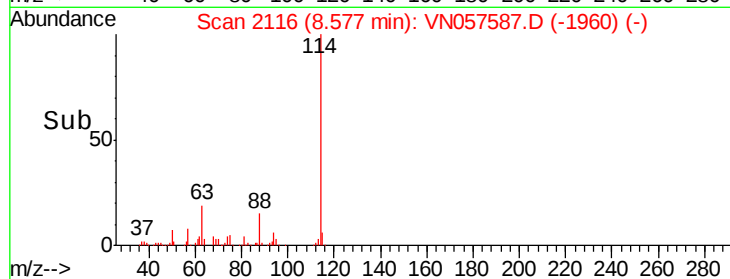
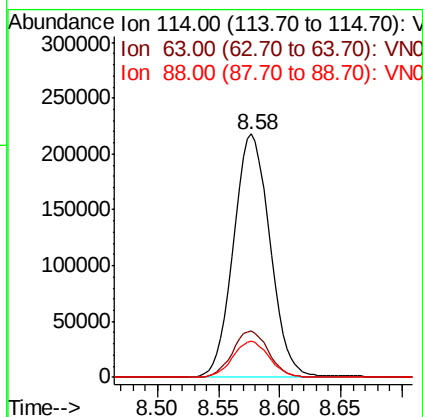
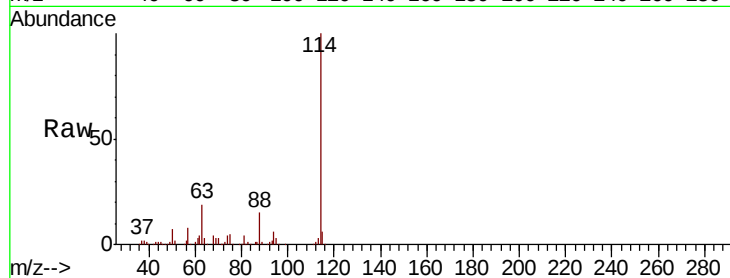




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057587.D
 Acq: 30 Aug 2019 14:18

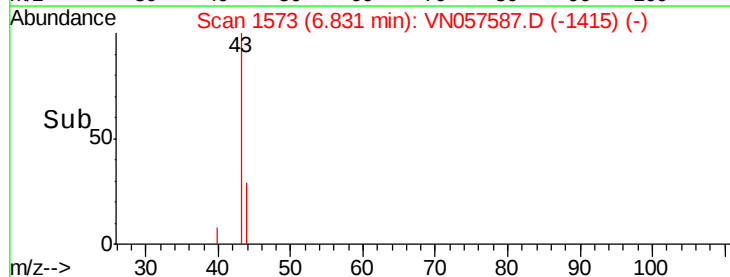
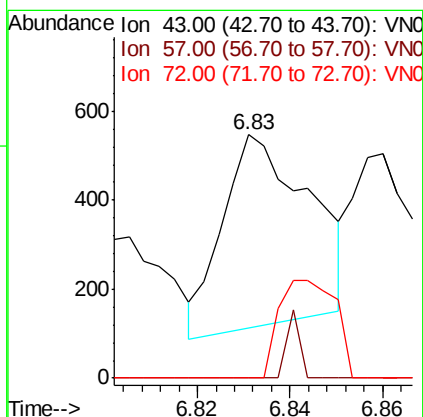
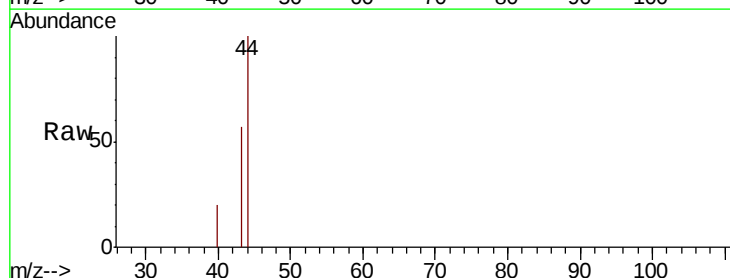
Instrument :
 MSVOA_N
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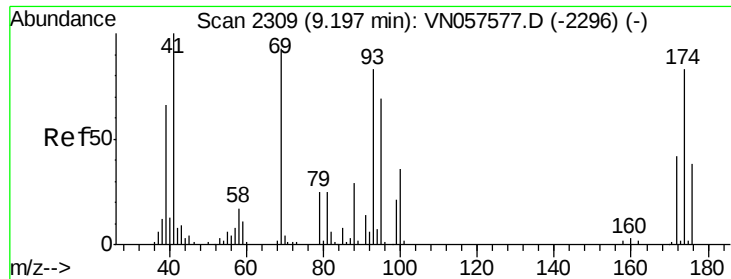
Tgt Ion: 114 Resp: 452189
 Ion Ratio Lower Upper
 114 100
 63 19.1 15.4 23.0
 88 15.0 11.8 17.8



#30
 2-Butanone
 Concen: 0.282 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.01 min
 Lab File: VN057587.D
 Acq: 30 Aug 2019 14:18

Tgt Ion: 43 Resp: 559
 Ion Ratio Lower Upper
 43 100
 57 0.0 3.5 5.3#
 72 33.5 24.6 36.8

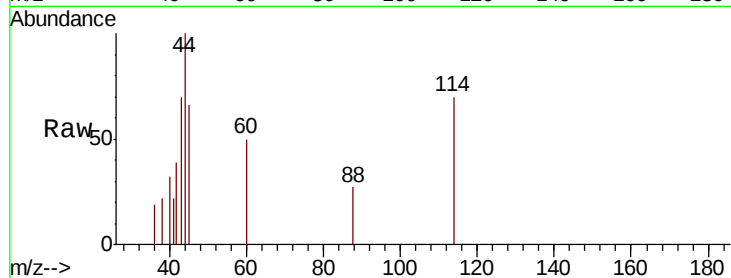




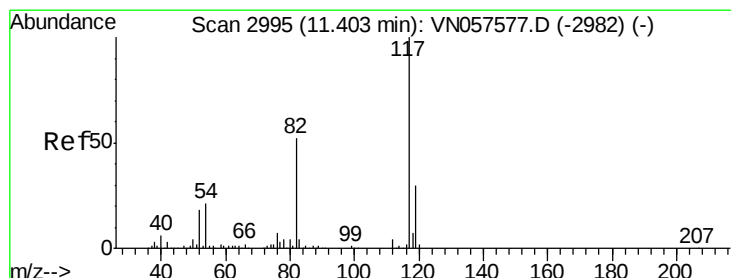
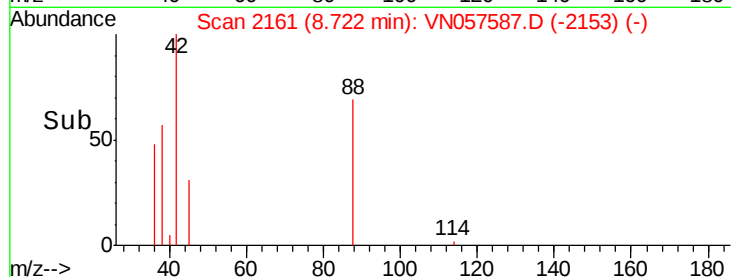
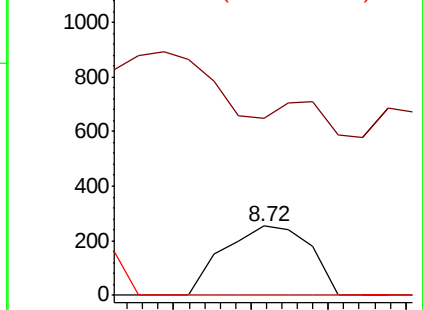
#45
 1,4-Dioxane
 Concen: 2.973 ug/l
 RT: 8.72 min Scan# 2161
 Delta R.T. -0.48 min
 Lab File: VN057587.D
 Acq: 30 Aug 2019 14:18

Instrument :
 MSVOA_N
 ClientSampleId :
 TW-10-DEP

Tgt Ion: 88 Resp: 196
 Ion Ratio Lower Upper
 88 100
 43 27.0 18.2 27.4
 58 0.0 45.0 67.6#

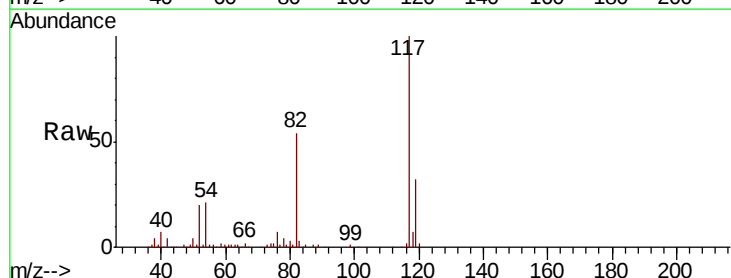


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

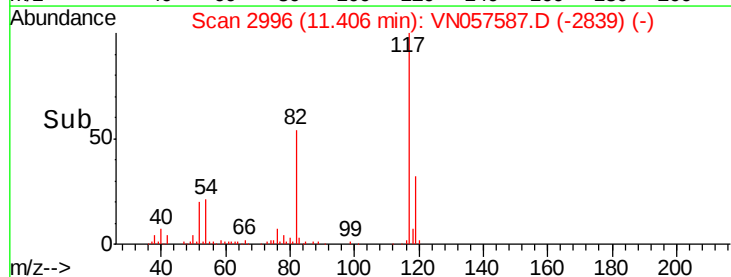
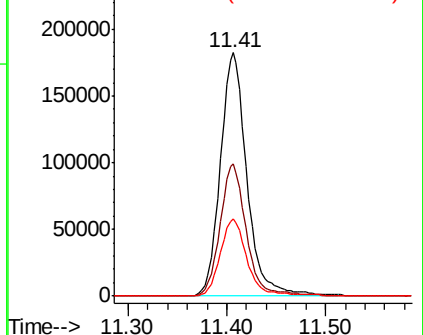


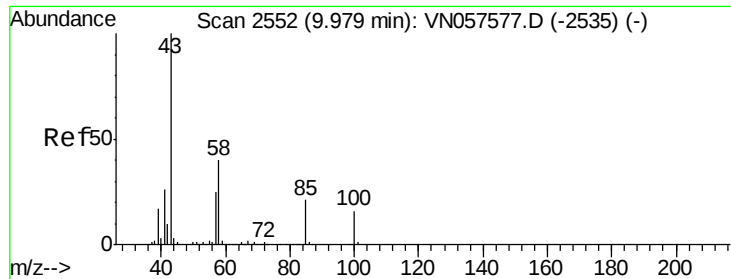
#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN057587.D
 Acq: 30 Aug 2019 14:18

Tgt Ion: 117 Resp: 345349
 Ion Ratio Lower Upper
 117 100
 82 53.1 42.6 63.8
 119 31.6 25.0 37.6



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 82.00 (81.70 to 82.70): VN0
 Ion 119.00 (118.70 to 119.70): V

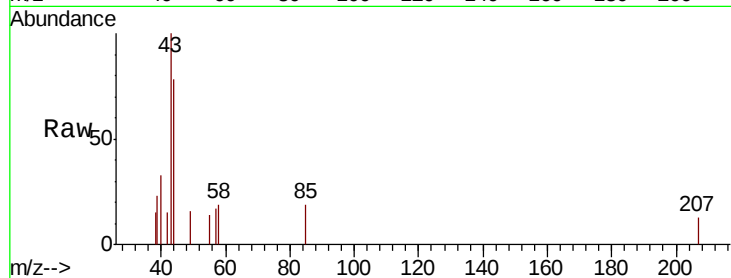




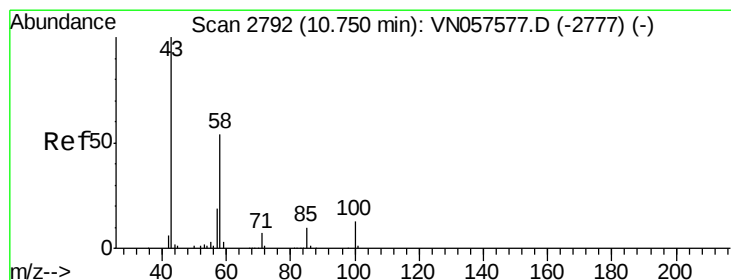
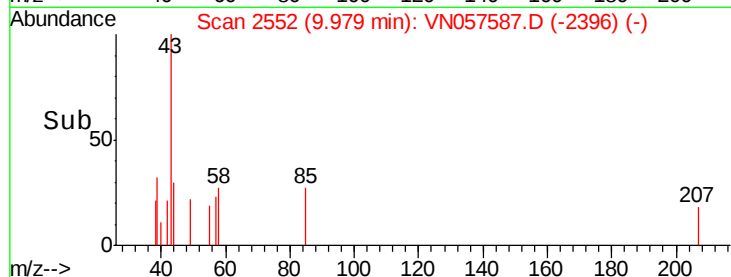
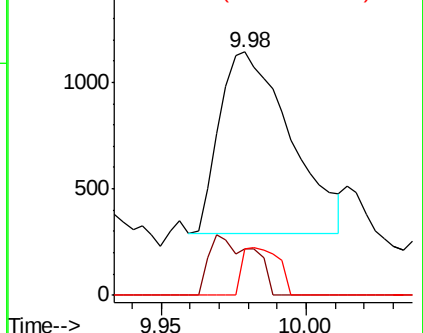
#58
 4-Methyl-2-Pentanone
 Concen: 0.414 ug/l
 RT: 9.98 min Scan# 2552
 Delta R.T. 0.00 min
 Lab File: VN057587.D
 Acq: 30 Aug 2019 14:18

Instrument :
 MSVOA_N
 ClientSampled :
 TW-10-DEP

Tgt Ion: 43 Resp: 1444
 Ion Ratio Lower Upper
 43 100
 58 8.2 32.1 48.1#
 85 13.4 16.6 24.8#

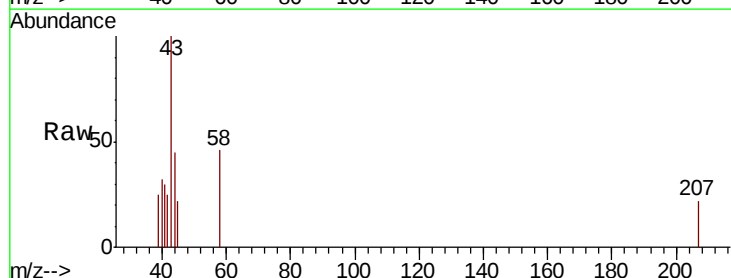


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0
 Ion 85.00 (84.70 to 85.70): VN0

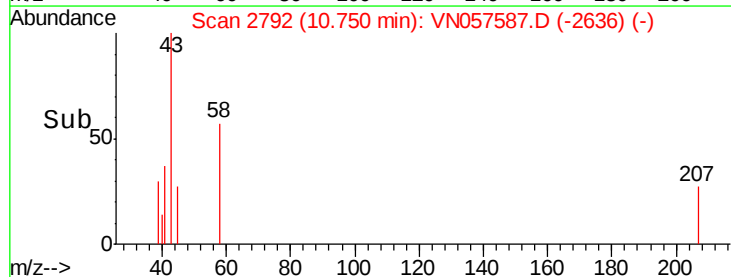
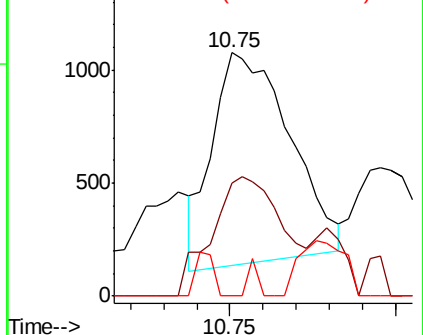


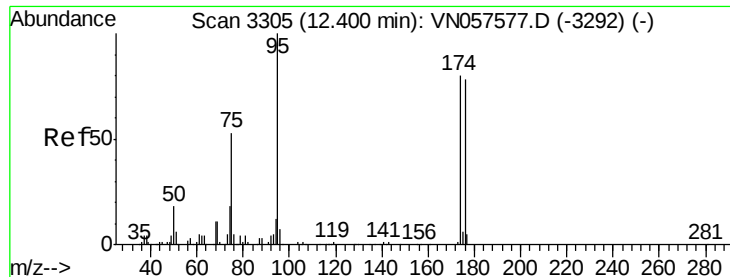
#59
 2-Hexanone
 Concen: 0.618 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.00 min
 Lab File: VN057587.D
 Acq: 30 Aug 2019 14:18

Tgt Ion: 43 Resp: 1524
 Ion Ratio Lower Upper
 43 100
 58 47.2 42.9 64.3
 57 0.0 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0
 Ion 57.00 (56.70 to 57.70): VN0





#60

4-Bromofluorobenzene

Concen: 21.292 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057587.D

Acq: 30 Aug 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

TW-10-DEP

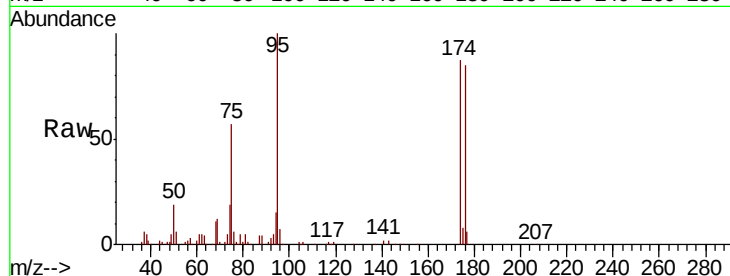
Tgt Ion: 95 Resp: 111789

Ion Ratio Lower Upper

95 100

174 87.3 66.2 99.2

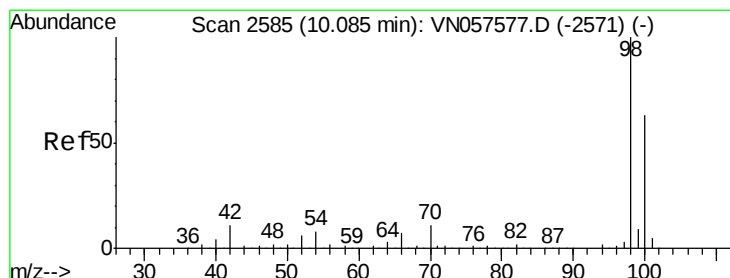
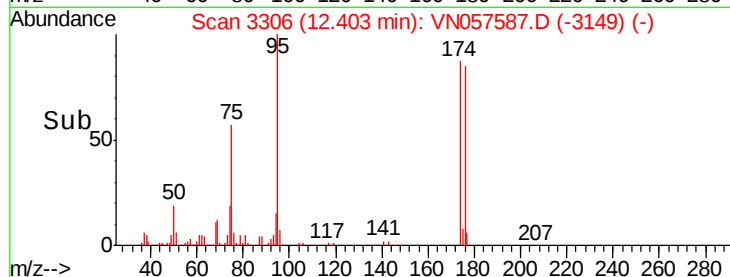
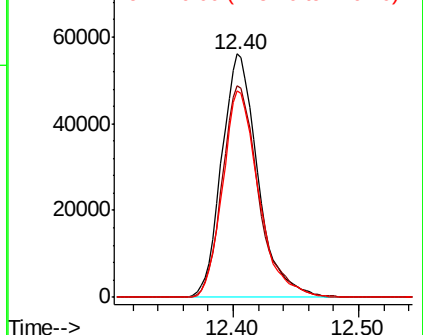
176 84.8 65.0 97.6



Abundance Ion 95.00 (94.70 to 95.70): VN057587.D (-3149) (-)

Ion 174.00 (173.70 to 174.70): VN057587.D (-3149) (-)

Ion 176.00 (175.70 to 176.70): VN057587.D (-3149) (-)



#63

Toluene-d8

Concen: 32.794 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057587.D

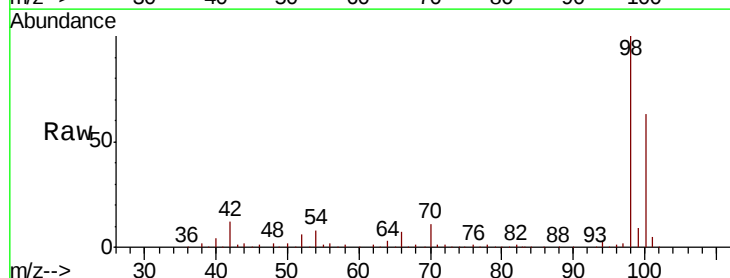
Acq: 30 Aug 2019 14:18

Tgt Ion: 98 Resp: 524481

Ion Ratio Lower Upper

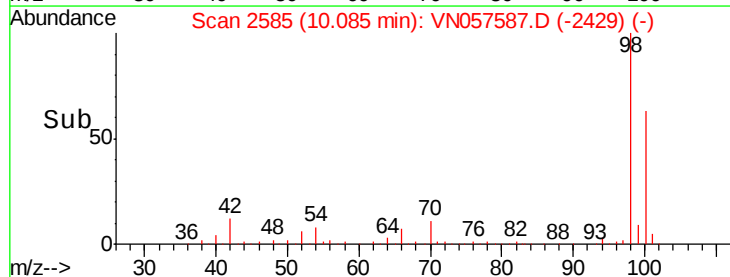
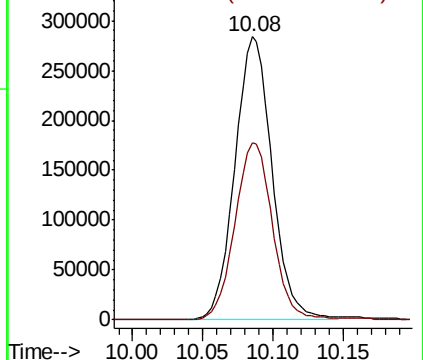
98 100

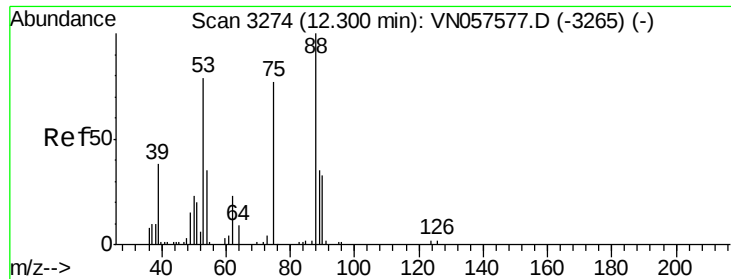
100 63.5 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN057587.D (-2429) (-)

Ion 100.00 (99.70 to 100.70): VN057587.D (-2429) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 46.038 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057587.D

Acq: 30 Aug 2019 14:18

Instrument :

MSVOA_N

ClientSampled :

TW-10-DEP

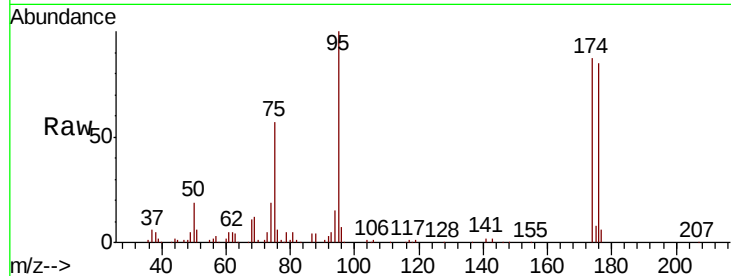
Tgt Ion: 75 Resp: 62504

Ion Ratio Lower Upper

75 100

53 0.0 52.8 158.4#

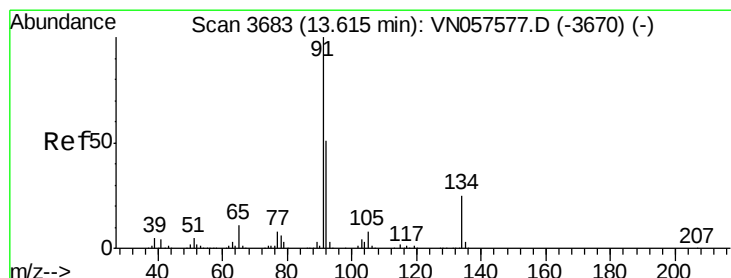
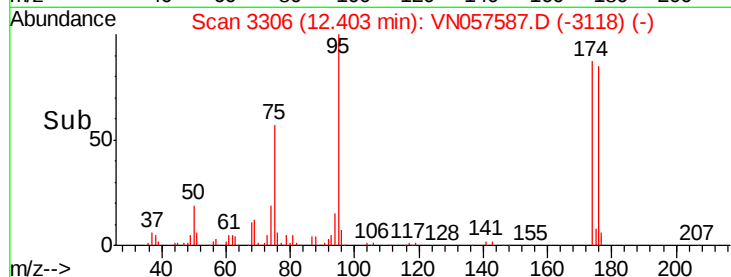
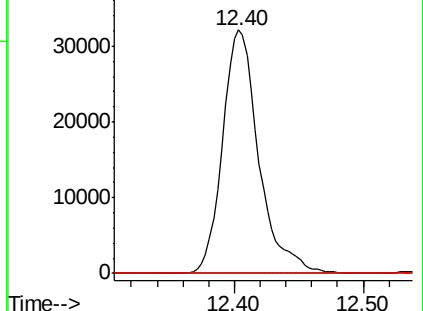
89 0.0 23.2 69.5#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#85

n-Butylbenzene

Concen: 0.260 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.00 min

Lab File: VN057587.D

Acq: 30 Aug 2019 14:18

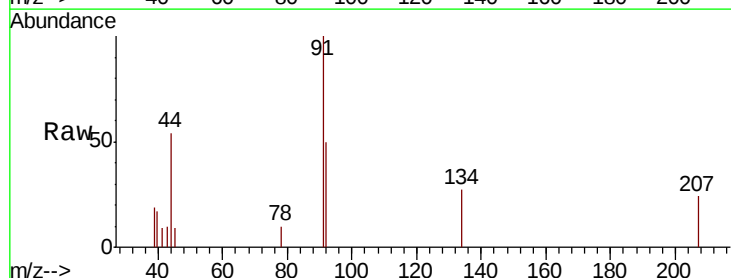
Tgt Ion: 91 Resp: 3210

Ion Ratio Lower Upper

91 100

92 45.5 0.0 103.0

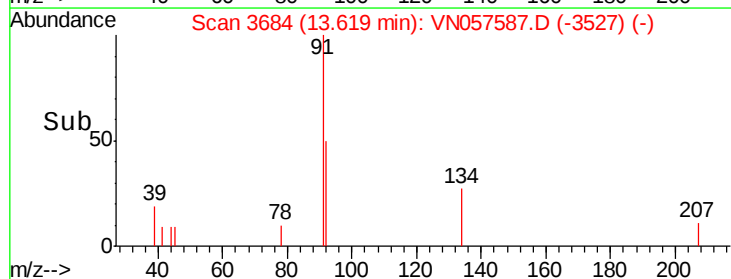
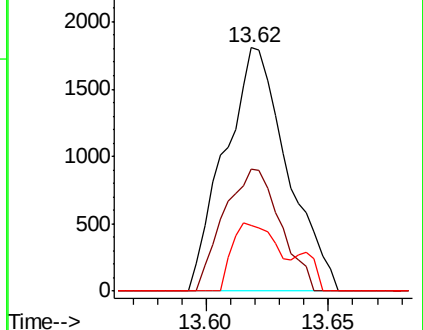
134 20.4 0.0 51.0

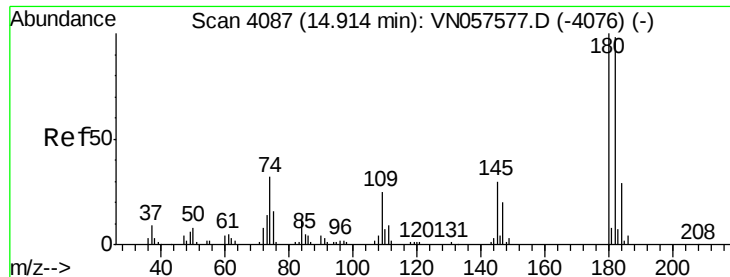


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V

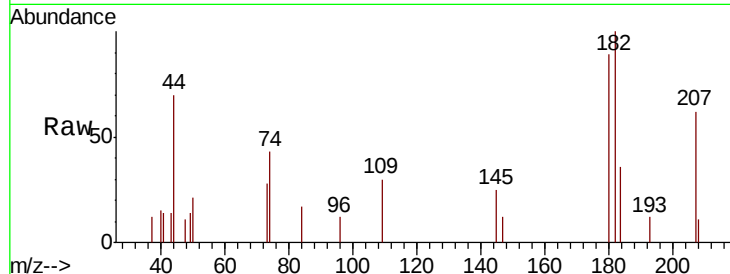




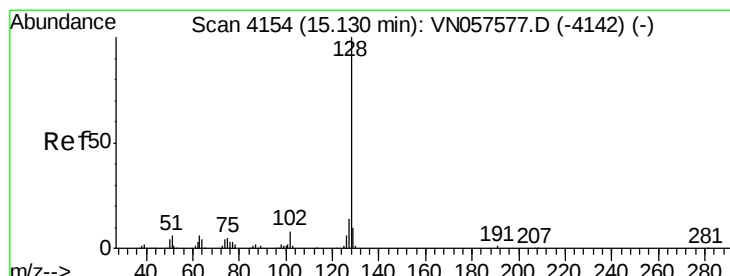
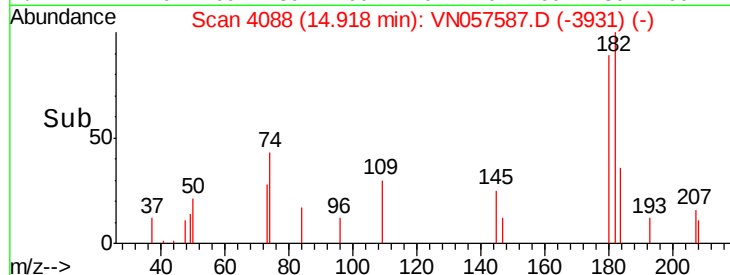
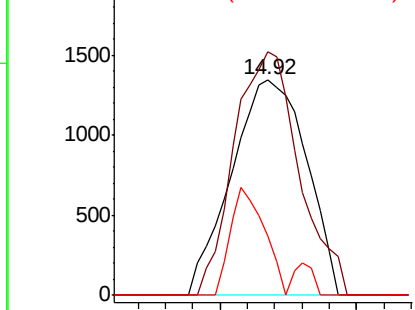
#89
 1,2,4-Trichlorobenzene
 Concen: 0.923 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN057587.D
 Acq: 30 Aug 2019 14:18

Instrument :
 MSVOA_N
 ClientSampleId :
 TW-10-DEP

Tgt Ion:180 Resp: 2566
 Ion Ratio Lower Upper
 180 100
 182 98.1 76.6 115.0
 145 23.0 24.4 36.6#

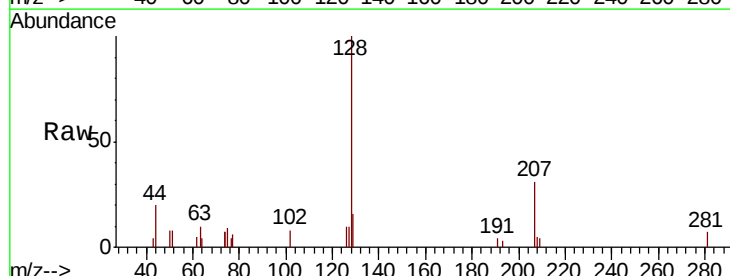


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

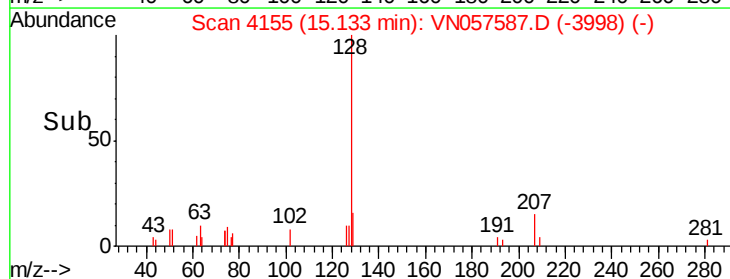
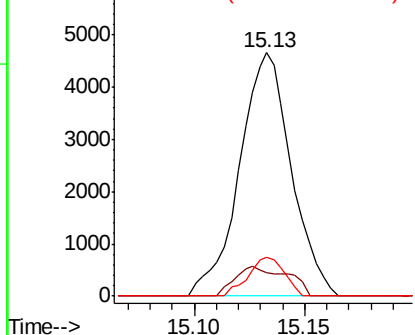


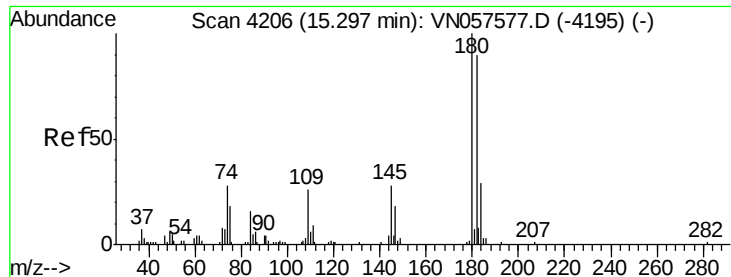
#91
 Naphthalene
 Concen: 0.980 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN057587.D
 Acq: 30 Aug 2019 14:18

Tgt Ion:128 Resp: 7586
 Ion Ratio Lower Upper
 128 100
 127 9.5 10.6 16.0#
 129 11.1 8.1 12.1



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





#92
 1,2,3-Trichlorobenzene
 Concen: 1.084 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. 0.00 min
 Lab File: VN057587.D
 Acq: 30 Aug 2019 14:18

Instrument :
 MSVOA_N
 ClientSampleId :
 TW-10-DEP

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.3	0.0	181.0
145	20.6	0.0	62.2

