

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\
 Data File : VN056028.D
 Acq On : 6 Jun 2019 1:08
 Operator : JC/SP
 Sample : K3219-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFFL-B2-7

Quant Time: Jun 06 04:14:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	52484	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	280751	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	215896	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	99506	30.53	ug/l	0.00
Spiked Amount 30.000	Range 50 - 169		Recovery =	101.77%		
60) 4-Bromofluorobenzene	12.40	95	74237	23.20	ug/l	0.00
Spiked Amount 30.000	Range 56 - 143		Recovery =	77.33%		
63) Toluene-d8	10.09	98	322260	32.90	ug/l	0.00
Spiked Amount 30.000	Range 66 - 137		Recovery =	109.67%		

Target Compounds

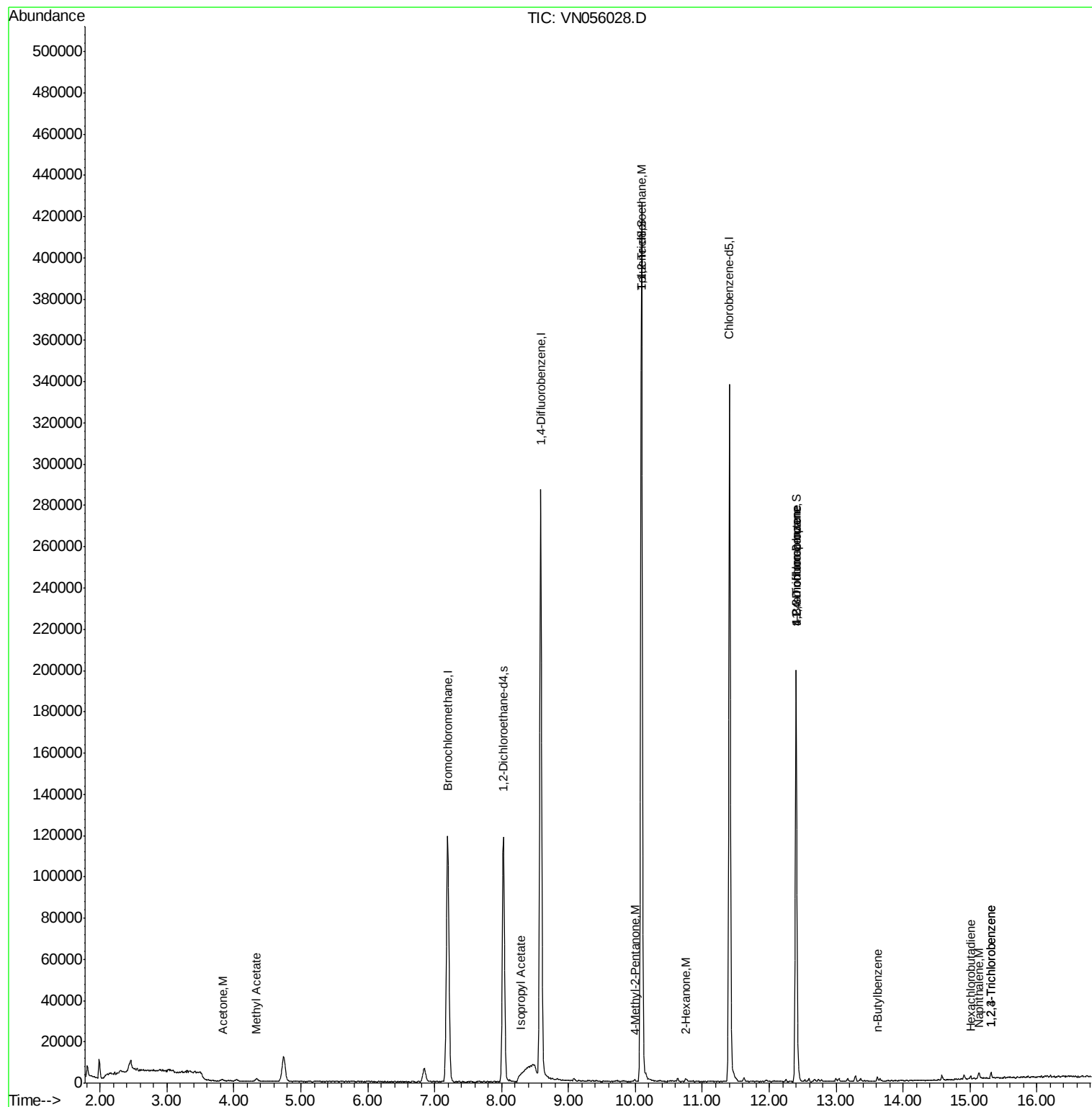
					Ovalue
12) Methyl Acetate	4.33	43	1298	0.394 ug/l	97
15) Acetone	3.83	58	140	0.291 ug/l #	1
44) Isopropyl Acetate	8.27	43	2564	0.432 ug/l #	55
50) 1,1,2-Trichloroethane	10.10	97	9728	3.187 ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	1583	0.484 ug/l #	53
59) 2-Hexanone	10.76	43	1466	0.627 ug/l #	83
72) 1,2,3-Trichloropropane	12.40	75	33256	10.484 ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	33256	36.742 ug/l #	11
85) n-Butylbenzene	13.61	91	1699	0.225 ug/l	86
89) 1,2,4-Trichlorobenzene	15.31	180	1650	9.010 ug/l	86
90) Hexachlorobutadiene	15.00	225	565	0.303 ug/l #	47
91) Naphthalene	15.14	128	3714	0.547 ug/l #	87
92) 1,2,3-Trichlorobenzene	15.31	180	1650	0.617 ug/l	83

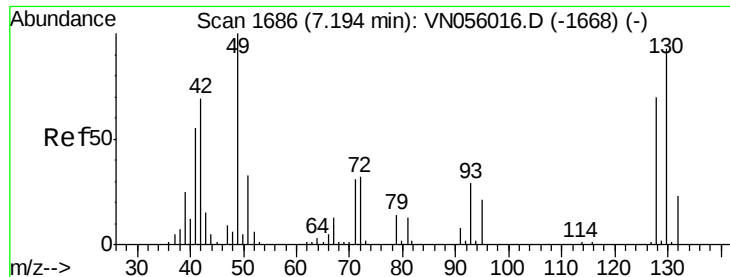
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN060619\
Data File : VN056028.D
Acq On : 6 Jun 2019 1:08
Operator : JC/SP
Sample : K3219-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EFFL-B2-7

Quant Time: Jun 06 04:14:06 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jun 06 04:02:53 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN056028.D

Acq: 6 Jun 2019 1:08

Instrument :

MSVOA_N

ClientSampleId :

EFFL-B2-7

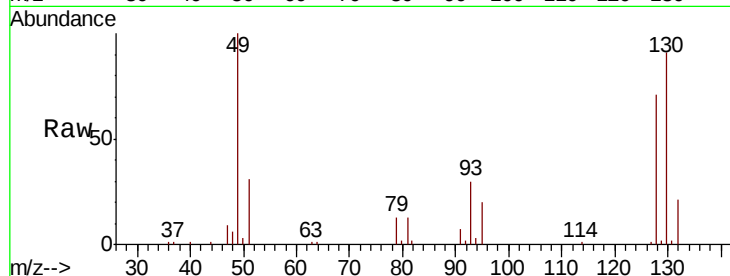
Tot Ion:128 Resp: 52484

Ion Ratio Lower Upper

128 100

49 140.0 0.0 355.8

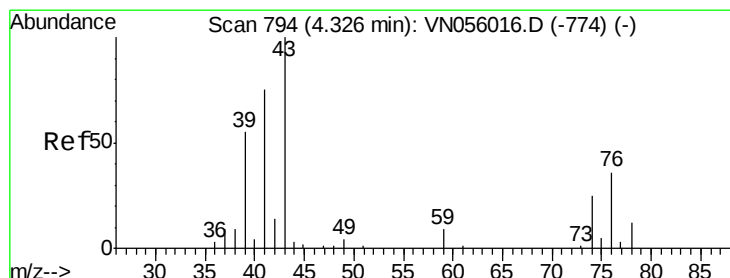
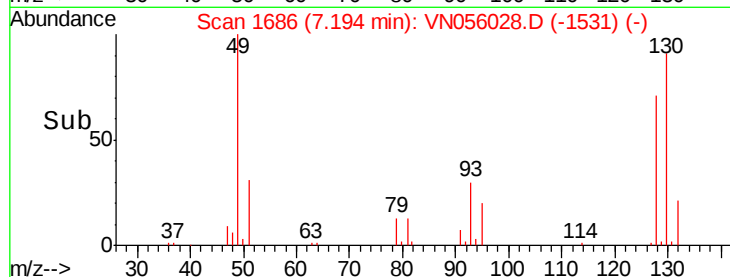
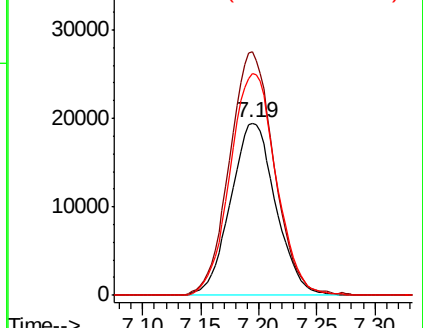
130 131.7 0.0 326.3



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



#12

Methyl Acetate

Concen: 0.394 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN056028.D

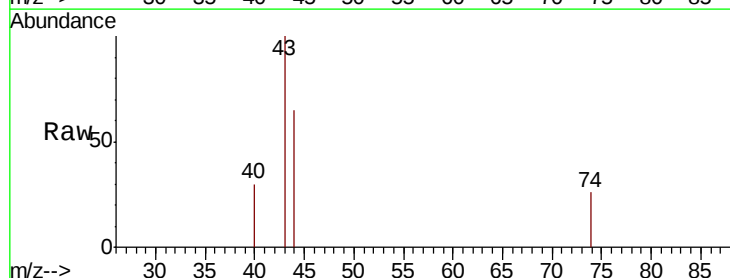
Acq: 6 Jun 2019 1:08

Tgt Ion: 43 Resp: 1298

Ion Ratio Lower Upper

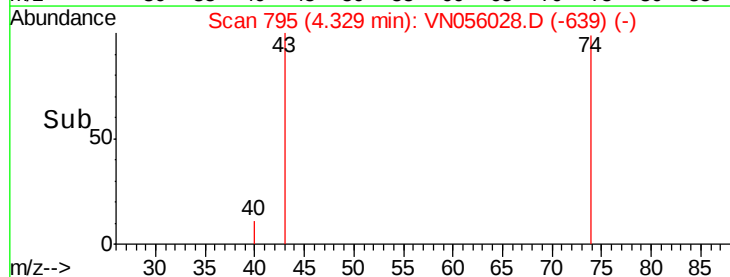
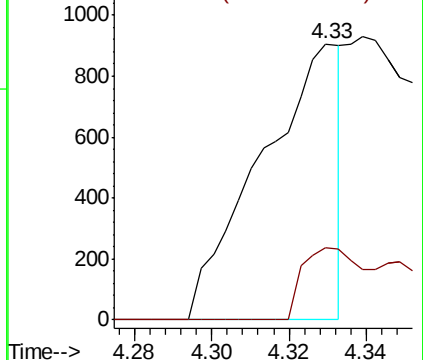
43 100

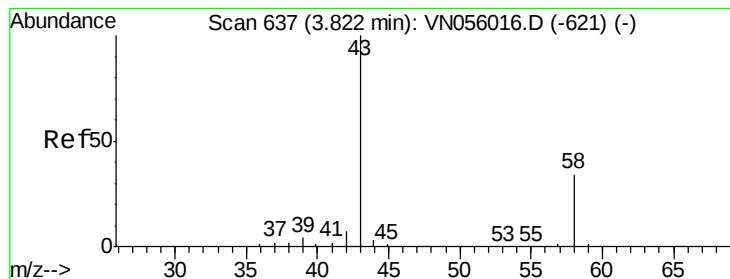
74 26.2 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#15

Acetone

Concen: 0.291 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056028.D

Acq: 6 Jun 2019 1:08

Instrument :

MSVOA_N

ClientSampleId :

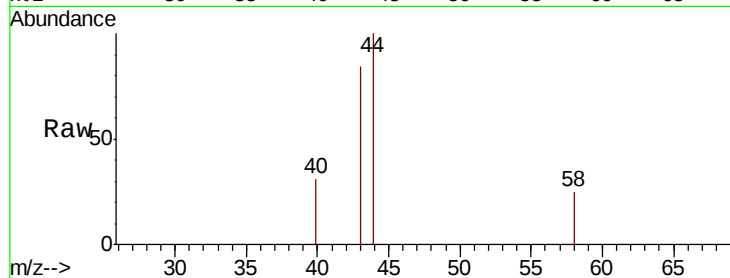
EFFL-B2-7

Tot Ion: 58 Resp: 140

Ion Ratio Lower Upper

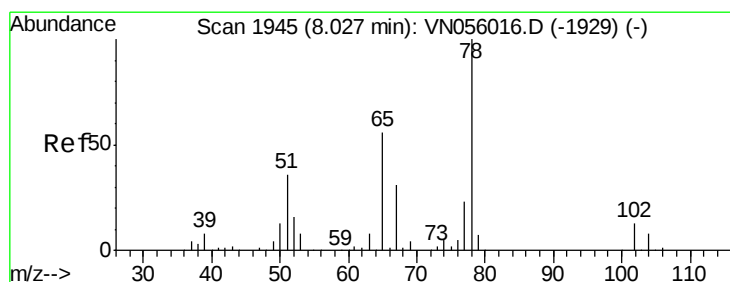
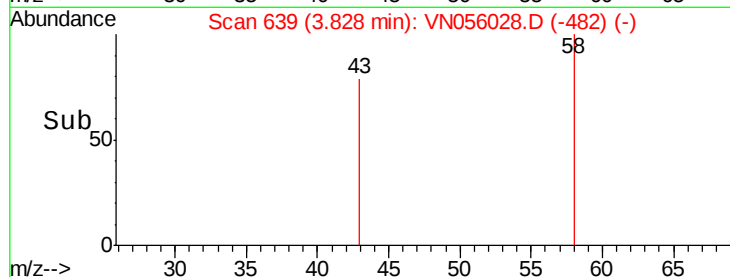
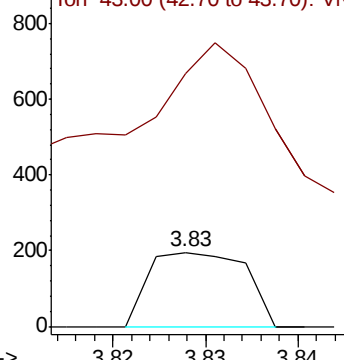
58 100

43 82.1 232.5 348.7#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#27

1,2-Dichloroethane-d4

Concen: 30.531 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN056028.D

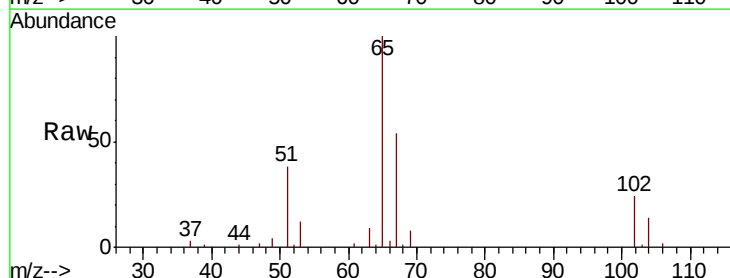
Acq: 6 Jun 2019 1:08

Tgt Ion: 65 Resp: 99506

Ion Ratio Lower Upper

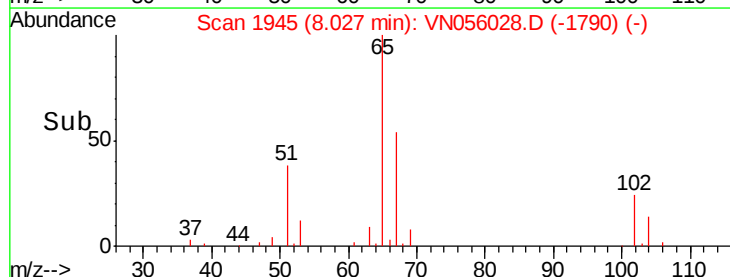
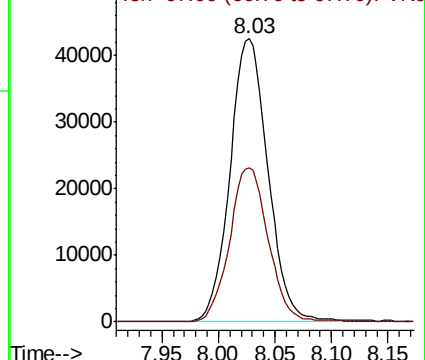
65 100

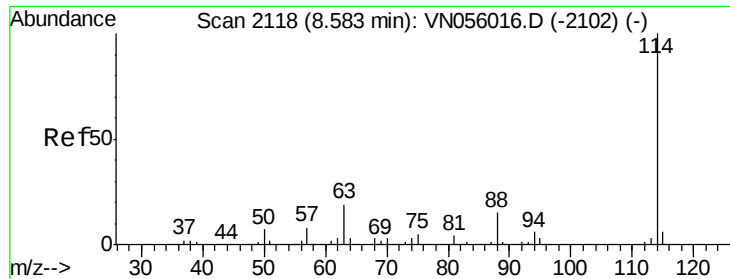
67 55.3 43.4 65.2



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

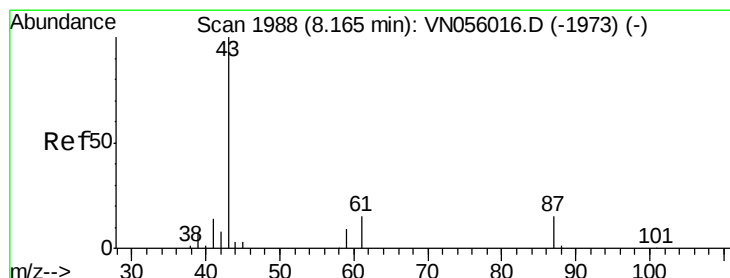
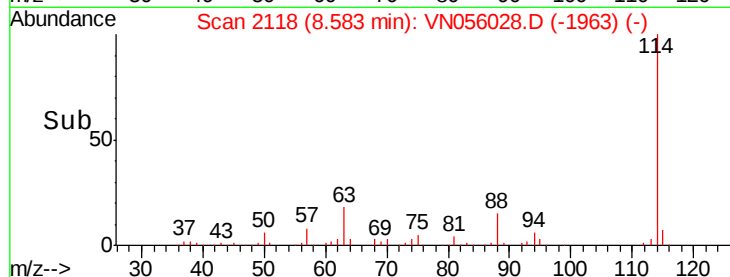
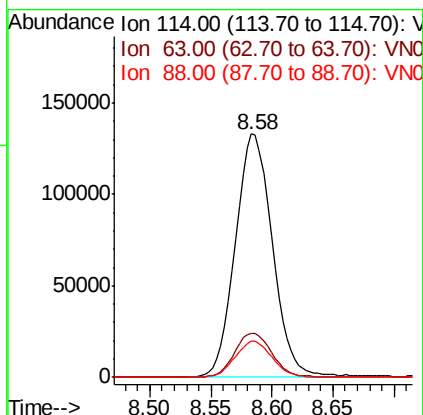
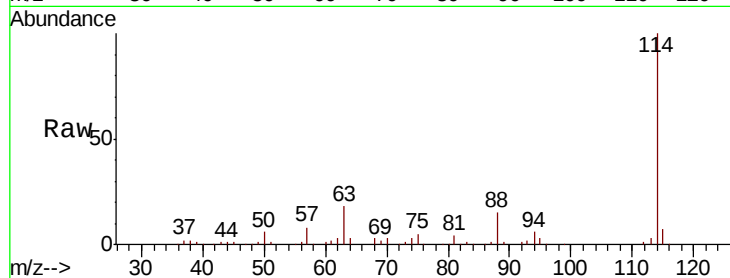




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056028.D
 Acq: 6 Jun 2019 1:08

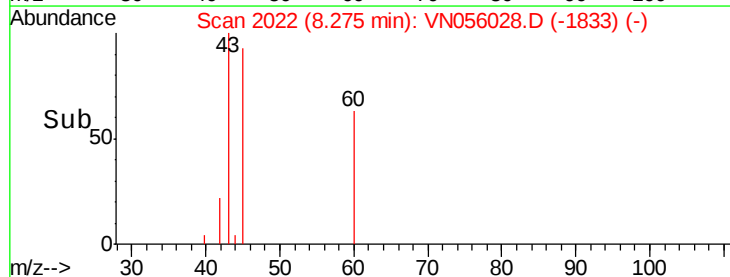
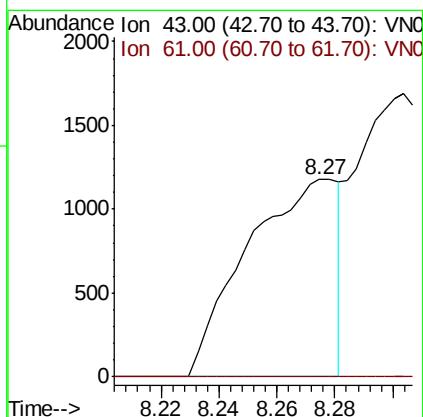
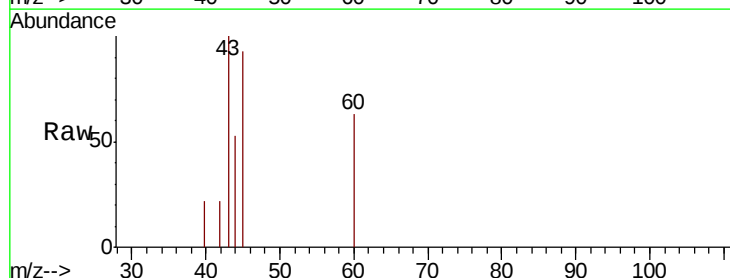
Instrument :
 MSVOA_N
 ClientSampleId :
 EFFL-B2-7

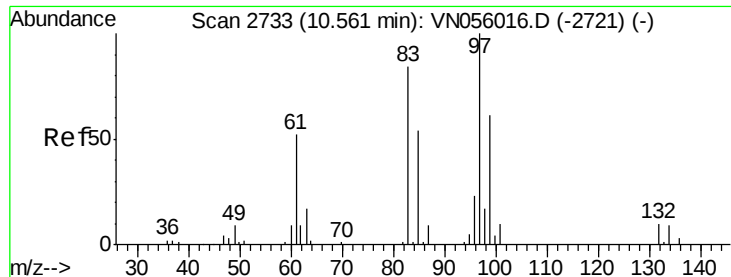
Tot Ion:114 Resp: 280751
 Ion Ratio Lower Upper
 114 100
 63 18.4 14.7 22.1
 88 15.0 11.9 17.9



#44
 Isopropyl Acetate
 Concen: 0.432 ug/l
 RT: 8.27 min Scan# 2022
 Delta R.T. 0.11 min
 Lab File: VN056028.D
 Acq: 6 Jun 2019 1:08

Tgt Ion: 43 Resp: 2564
 Ion Ratio Lower Upper
 43 100
 61 0.0 16.9 25.3#

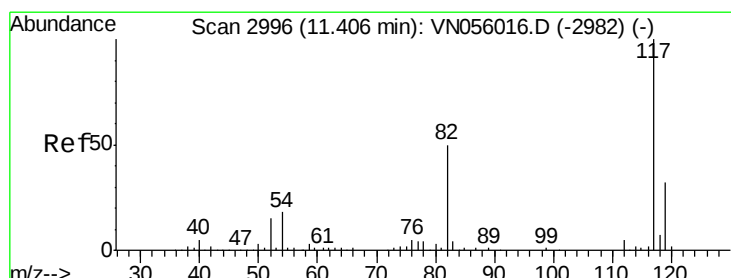
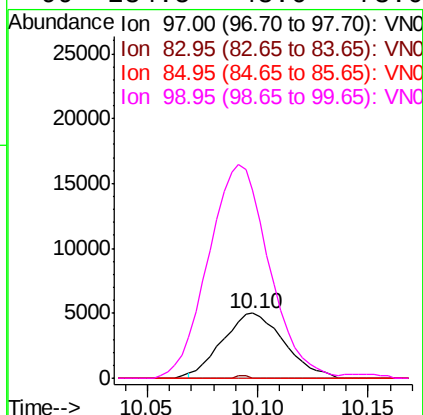
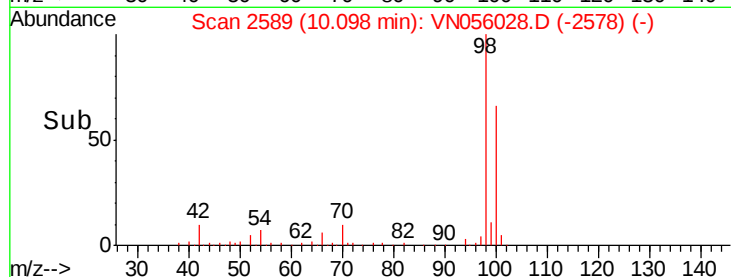
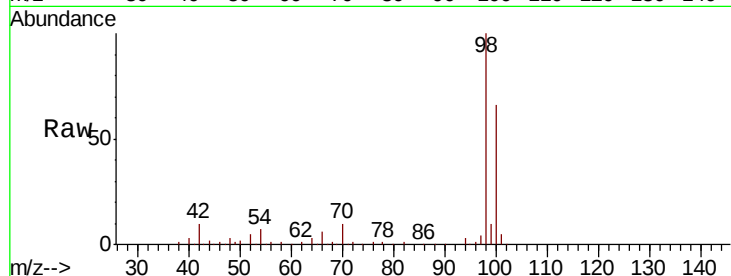




#50
1,1,2-Trichloroethane
Concen: 3.187 ug/l
RT: 10.10 min Scan# 2589
Delta R.T. -0.46 min
Lab File: VN056028.D
Acq: 6 Jun 2019 1:08

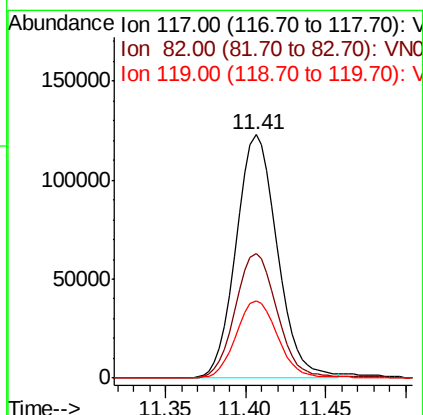
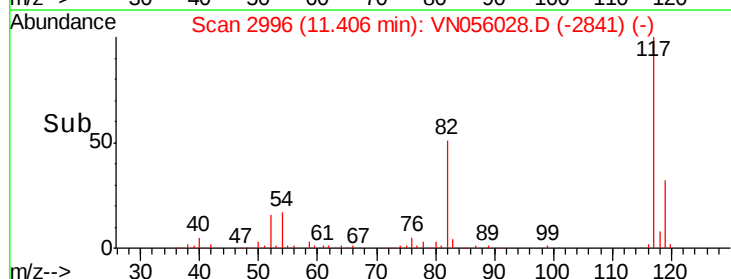
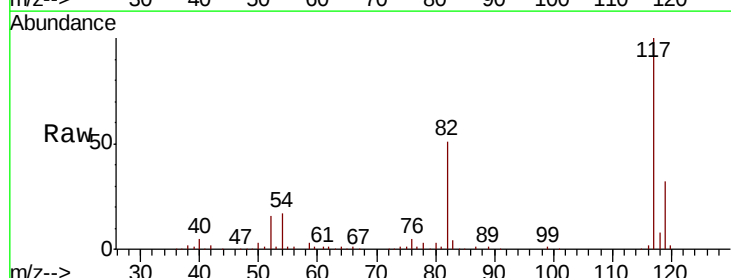
Instrument :
MSVOA_N
ClientSampled :
EFFL-B2-7

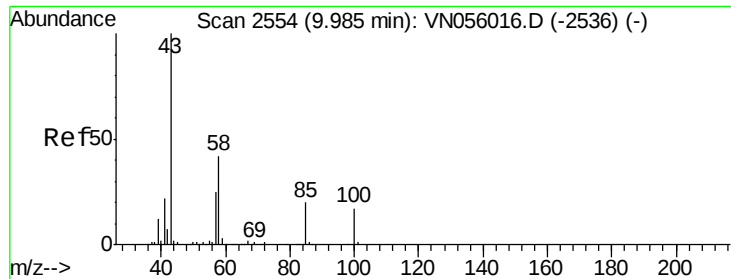
Tot Ion: 97 Resp: 9728
Ion Ratio Lower Upper
97 100
83 0.0 66.9 100.3#
85 0.0 43.3 64.9#
99 284.5 48.6 73.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056028.D
Acq: 6 Jun 2019 1:08

Tgt Ion: 117 Resp: 215896
Ion Ratio Lower Upper
117 100
82 52.1 41.2 61.8
119 32.3 26.2 39.2

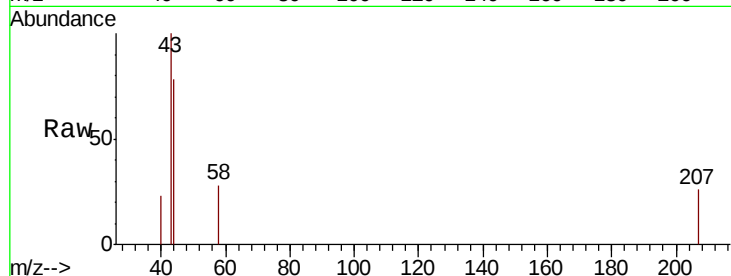




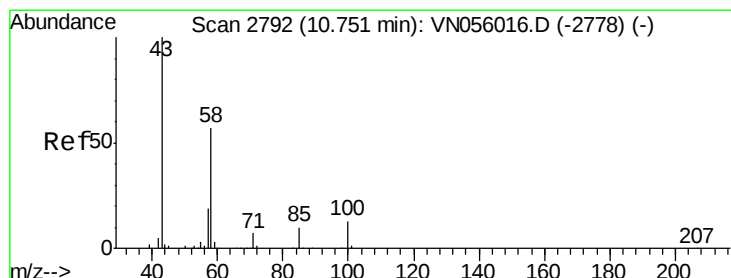
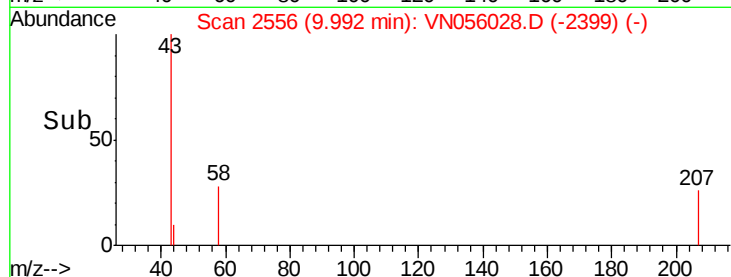
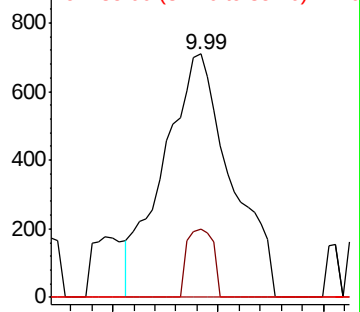
#58
4-Methyl-2-Pentanone
Concen: 0.484 ug/l
RT: 9.99 min Scan# 2556
Delta R.T. 0.01 min
Lab File: VN056028.D
Acq: 6 Jun 2019 1:08

Instrument :
MSVOA_N
ClientSampleId :
EFFL-B2-7

Tot Ion: 43 Resp: 1583
Ion Ratio Lower Upper
43 100
58 11.0 33.1 49.7#
85 0.0 15.5 23.3#

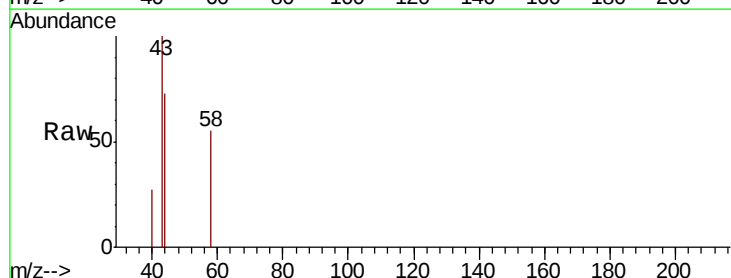


Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO
Ion 85.00 (84.70 to 85.70): VNO

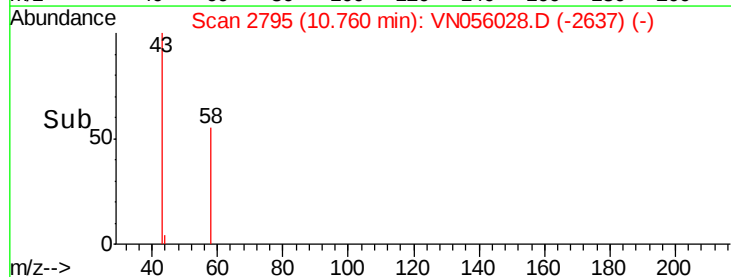
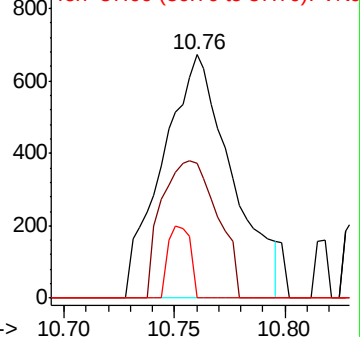


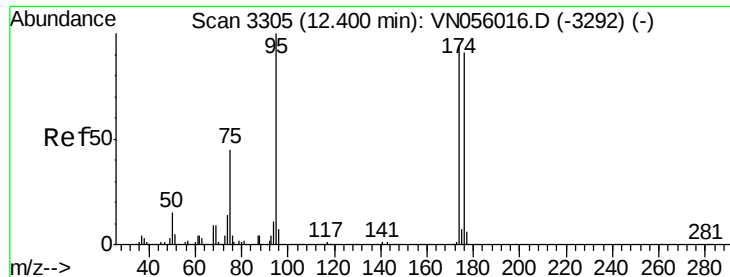
#59
2-Hexanone
Concen: 0.627 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN056028.D
Acq: 6 Jun 2019 1:08

Tgt Ion: 43 Resp: 1466
Ion Ratio Lower Upper
43 100
58 45.1 45.3 67.9#
57 9.5 15.6 23.4#



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





#60

4-Bromofluorobenzene

Concen: 23.199 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056028.D

Acq: 6 Jun 2019 1:08

Instrument :

MSVOA_N

ClientSampled :

EFFL-B2-7

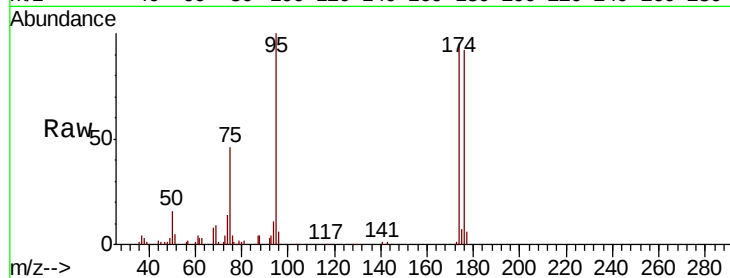
Tot Ion: 95 Resp: 74237

Ion Ratio Lower Upper

95 100

174 94.7 75.4 113.0

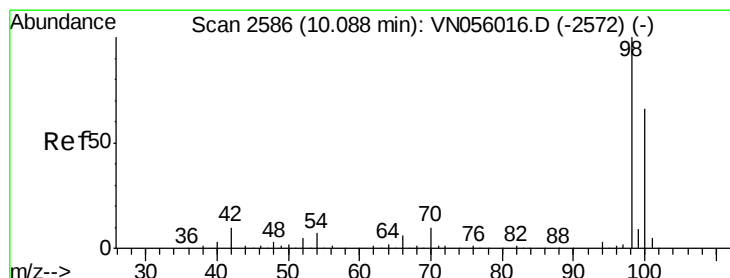
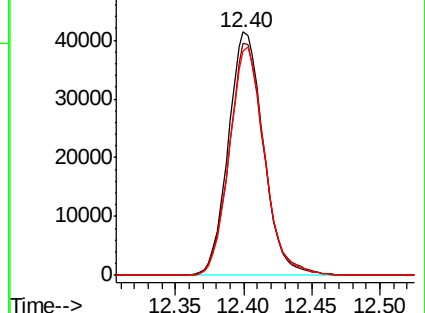
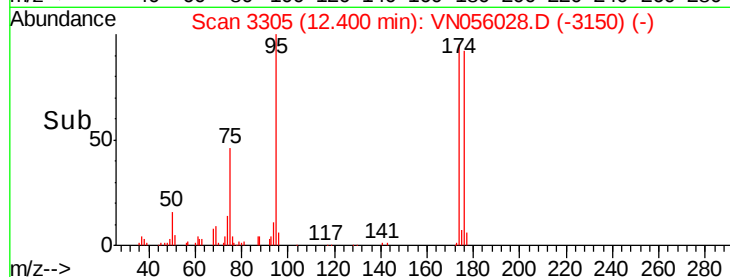
176 93.3 73.9 110.9



Abundance Ion 95.00 (94.70 to 95.70): VN056028.D (-3150) (-)

Ion 174.00 (173.70 to 174.70): VN056028.D (-3150) (-)

Ion 176.00 (175.70 to 176.70): VN056028.D (-3150) (-)



#63

Toluene-d8

Concen: 32.905 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056028.D

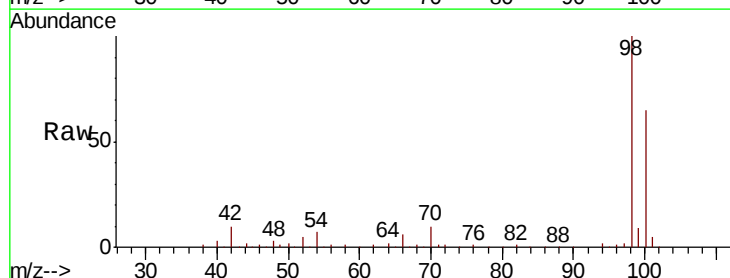
Acq: 6 Jun 2019 1:08

Tgt Ion: 98 Resp: 322260

Ion Ratio Lower Upper

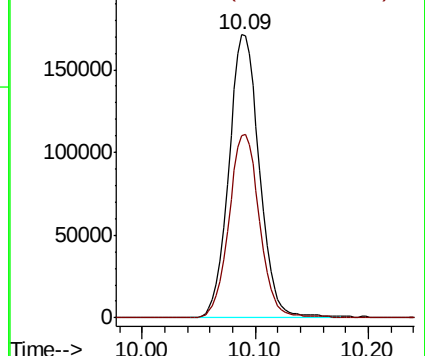
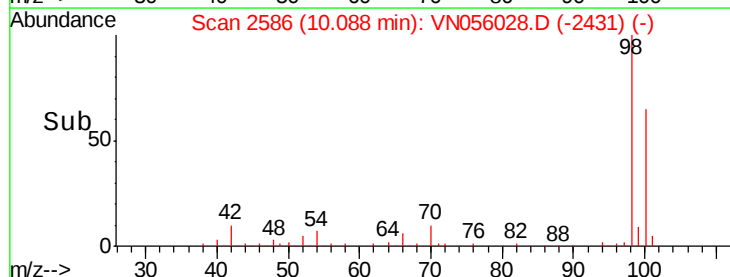
98 100

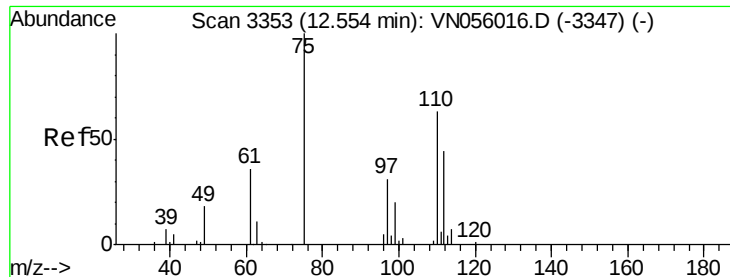
100 65.0 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VN056028.D (-2431) (-)

Ion 100.00 (99.70 to 100.70): VN056028.D (-2431) (-)





#72

1,2,3-Trichloropropane

Concen: 10.484 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056028.D

Acq: 6 Jun 2019 1:08

Instrument :

MSVOA_N

ClientSampled :

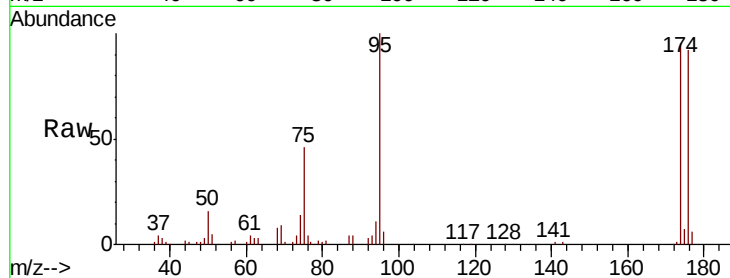
EFFL-B2-7

Tot Ion: 75 Resp: 33256

Ion Ratio Lower Upper

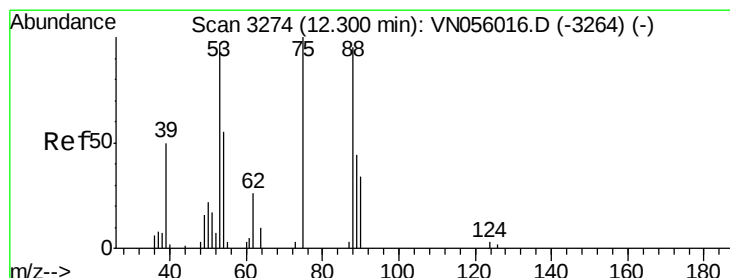
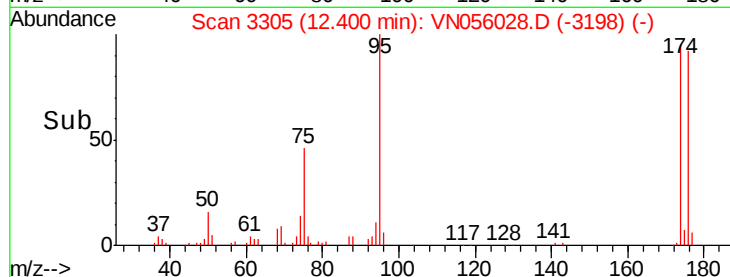
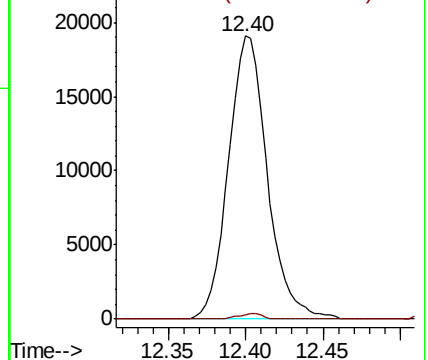
75 100

77 1.1 0.0 350.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

t-1,4-Dichloro-2-butene

Concen: 36.742 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056028.D

Acq: 6 Jun 2019 1:08

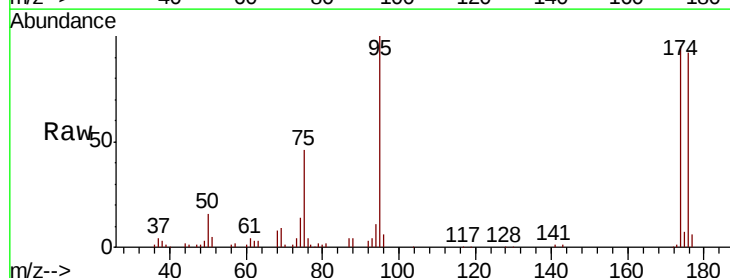
Tgt Ion: 75 Resp: 33256

Ion Ratio Lower Upper

75 100

53 0.0 48.0 144.0#

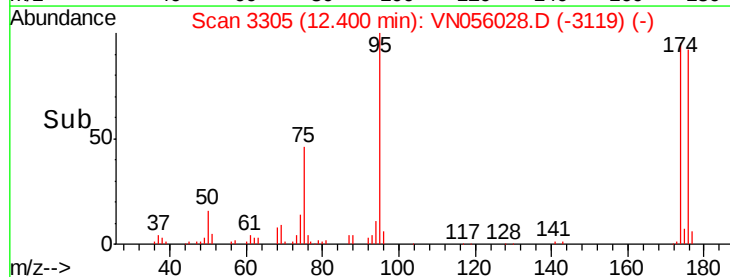
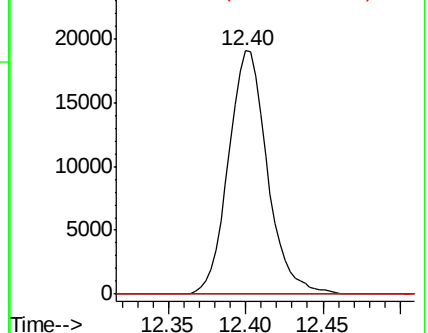
89 0.0 22.5 67.5#

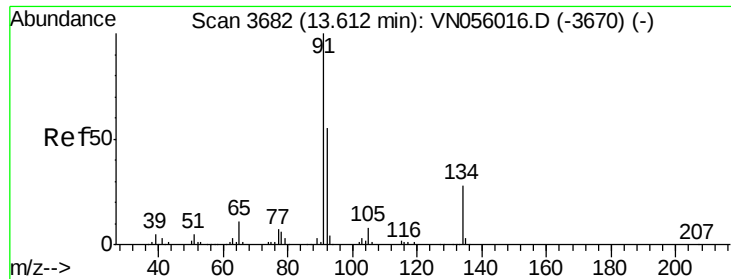


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

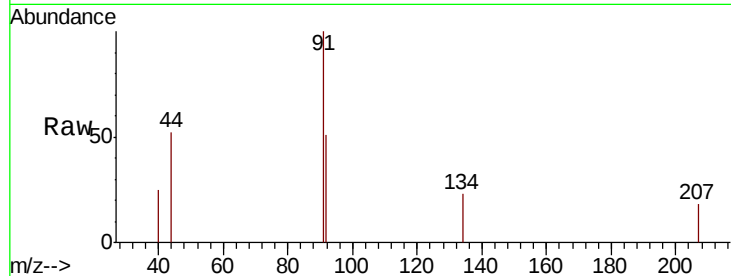




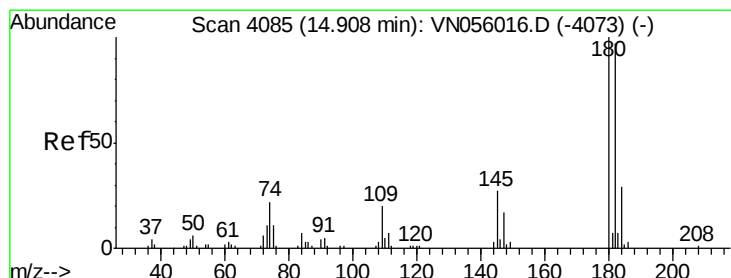
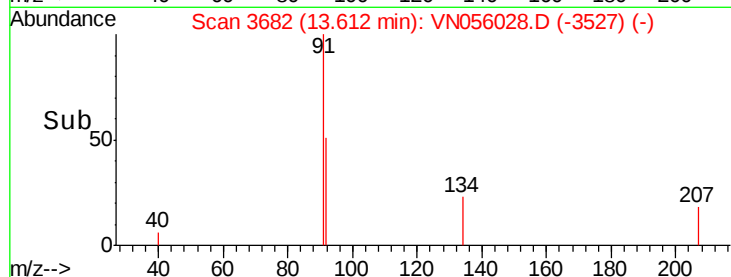
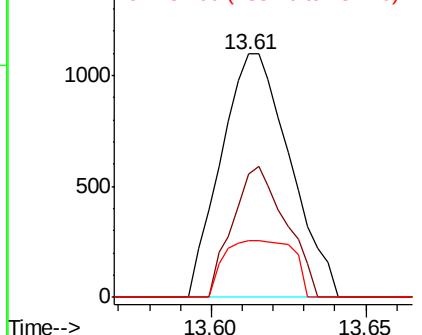
#85
n-Butylbenzene
Concen: 0.225 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN056028.D
Acq: 6 Jun 2019 1:08

Instrument :
MSVOA_N
ClientSampled :
EFFL-B2-7

Tot Ion: 91 Resp: 1699
Ion Ratio Lower Upper
91 100
92 41.6 0.0 107.2
134 23.4 0.0 55.8

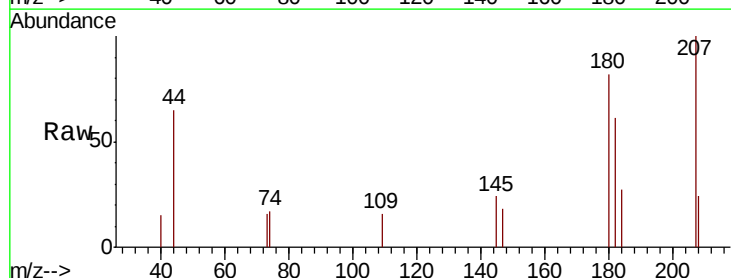


Abundance Ion 91.00 (90.70 to 91.70): VN056016.D (-3670) (-)
Ion 92.00 (91.70 to 92.70): VN056016.D (-3670) (-)
Ion 134.00 (133.70 to 134.70): VN056016.D (-3670) (-)

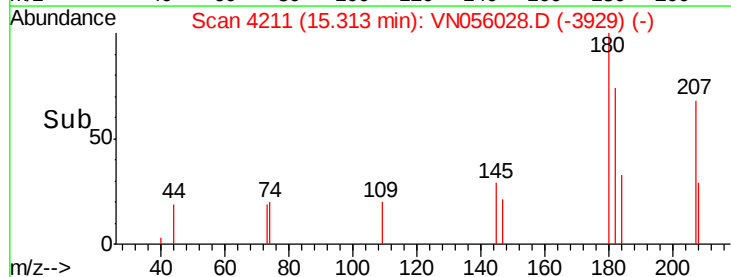
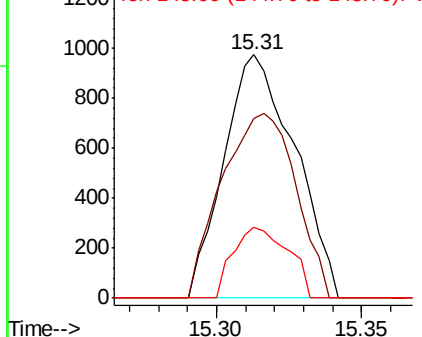


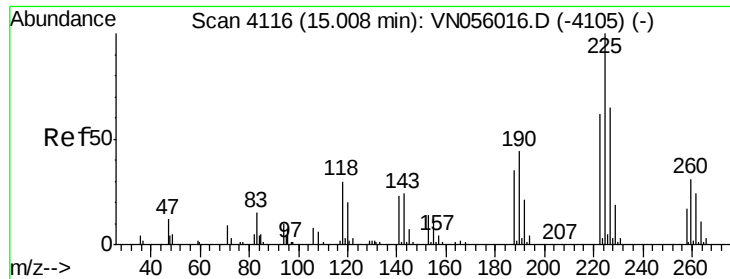
#89
1,2,4-Trichlorobenzene
Concen: 9.010 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.41 min
Lab File: VN056028.D
Acq: 6 Jun 2019 1:08

Tgt Ion: 180 Resp: 1650
Ion Ratio Lower Upper
180 100
182 79.6 75.0 112.6
145 22.6 22.1 33.1



Abundance Ion 180.00 (179.70 to 180.70): VN056016.D (-4073) (-)
Ion 182.00 (181.70 to 182.70): VN056016.D (-4073) (-)
Ion 145.00 (144.70 to 145.70): VN056016.D (-4073) (-)





#90

Hexachlorobutadiene

Concen: 0.303 ug/l

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN056028.D

Acq: 6 Jun 2019 1:08

Instrument :

MSVOA_N

ClientSampleId :

EFFL-B2-7

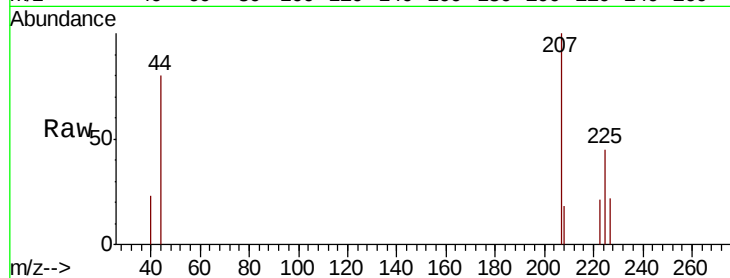
Tot Ion:225 Resp: 565

Ion Ratio Lower Upper

225 100

223 0.0 0.0 125.6

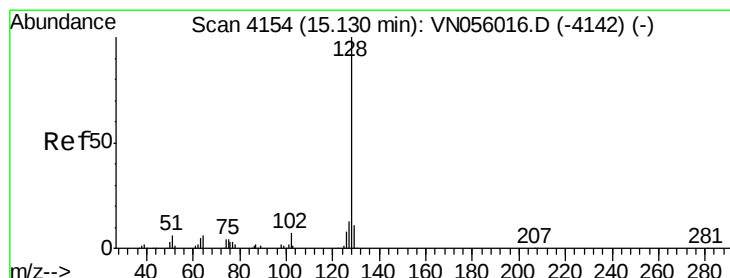
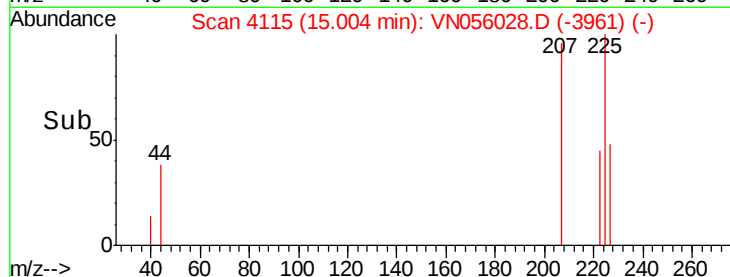
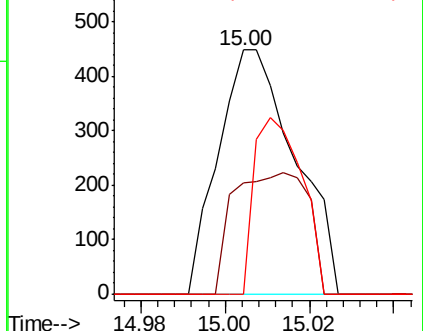
227 45.0 0.0 128.6



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 0.547 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056028.D

Acq: 6 Jun 2019 1:08

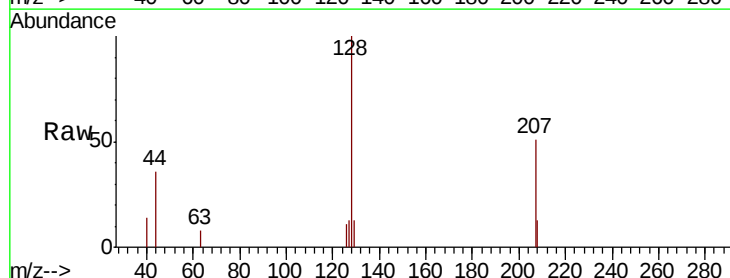
Tgt Ion:128 Resp: 3714

Ion Ratio Lower Upper

128 100

127 7.7 10.4 15.6#

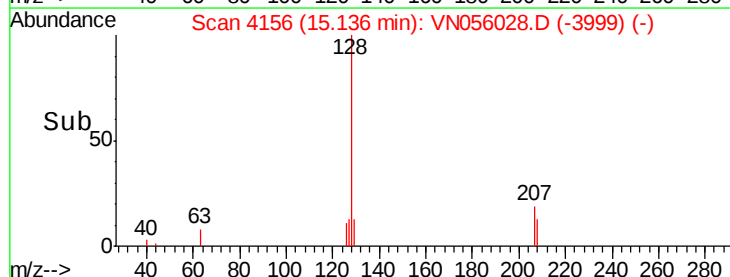
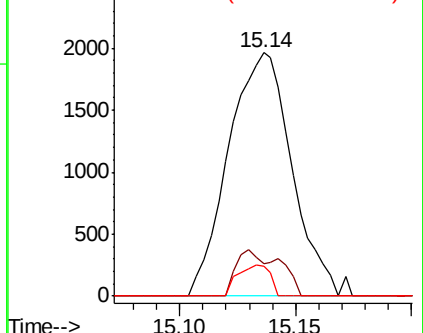
129 6.5 8.7 13.1#

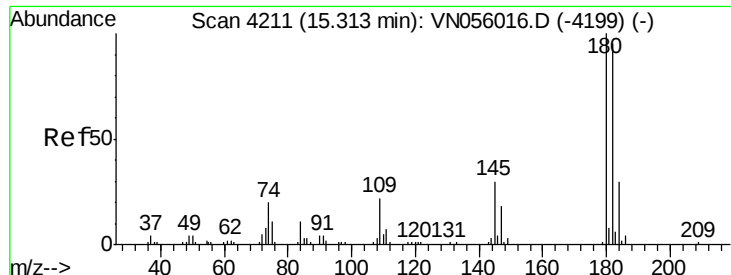


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#92
 1,2,3-Trichlorobenzene
 Concen: 0.617 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN056028.D
 Acq: 6 Jun 2019 1:08

Instrument :
 MSVOA_N
 ClientSampleId :
 EFFL-B2-7

Tot Ion	Ratio	Lower	Upper
180	100		
182	79.6	0.0	193.4
145	22.6	0.0	59.8

