

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090619\
 Data File : VN057737.D
 Acq On : 7 Sep 2019 00:28
 Operator : JC/SP
 Sample : K4580-37
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

Quant Time: Sep 07 03:41:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 03:46:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	192050	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	323413	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	294844	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	149807	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	248631	53.22	ug/l	0.00
Spiked Amount			Recovery	=	106.44%	
35) Dibromofluoromethane	7.58	113	148408	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
50) Toluene-d8	10.09	98	568789	52.20	ug/l	0.00
Spiked Amount			Recovery	=	104.40%	
62) 4-Bromofluorobenzene	12.40	95	214874	47.47	ug/l	0.00
Spiked Amount			Recovery	=	94.94%	

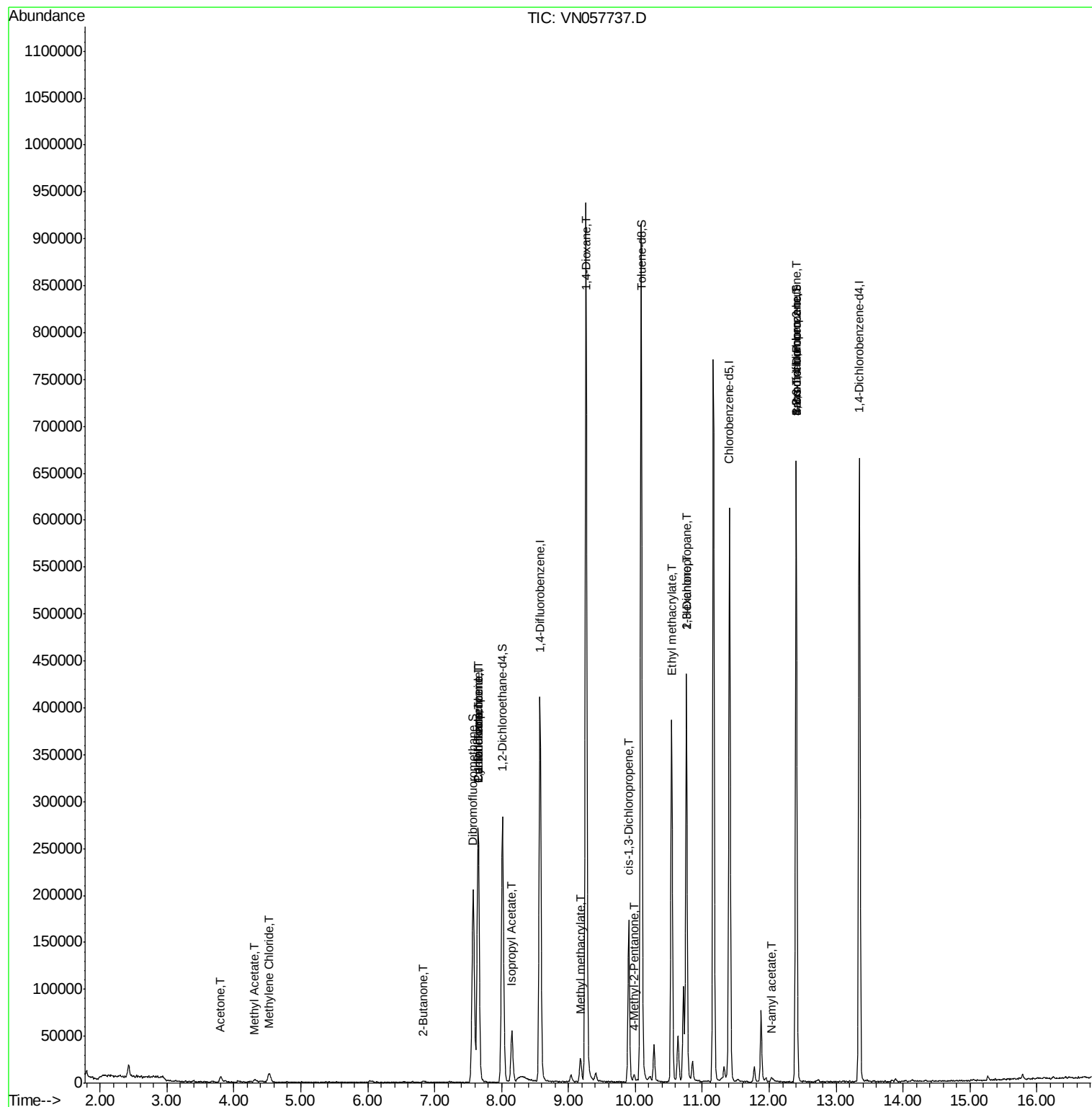
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1369	Below Cal		99
16) Acetone	3.80	43	9799	6.816	ug/l	93
18) Methyl Acetate	4.31	43	3016	0.771	ug/l	98
20) Methylene Chloride	4.52	84	2887	0.929	ug/l #	90
25) 2-Butanone	6.83	43	1599	0.777	ug/l	100
31) Cyclohexane	7.65	56	5844	1.114	ug/l #	28
36) 1,1-Dichloropropene	7.65	75	19703	4.579	ug/l #	50
38) Carbon Tetrachloride	7.65	117	21659	5.257	ug/l #	16
43) Isopropyl Acetate	8.15	43	65652	8.008	ug/l	99
48) Methyl methacrylate	9.18	41	4237	1.005	ug/l #	16
49) 1,4-Dioxane	9.26	88	109	2.222	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	4214	0.925	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	24546	4.881	ug/l #	68
56) Ethyl methacrylate	10.54	69	1107	0.234	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4399	0.825	ug/l #	46
59) 2-Hexanone	10.76	43	71275	22.199	ug/l #	57
71) Bromoform	12.39	173	224	3.347	ug/l #	1
74) N-amyl acetate	12.03	43	2202	0.333	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	127626	37.099	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	127626	115.379	ug/l #	1

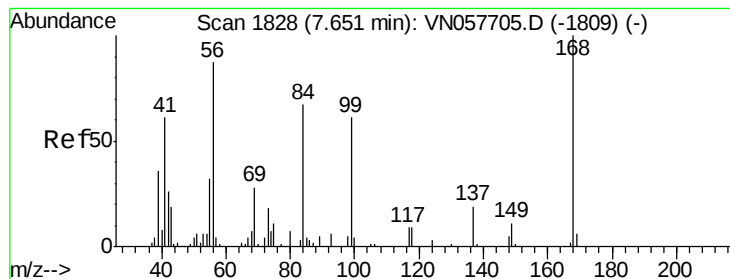
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 06 03:46:54 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057737.D

Acq: 7 Sep 2019 00:28

Instrument :

MSVOA_N

ClientSampled :

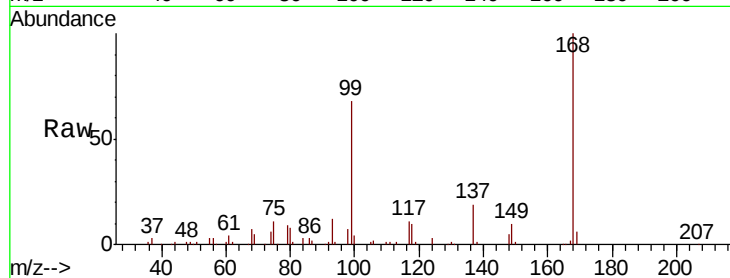
BFB

Tgt Ion:168 Resp: 192050

Ion Ratio Lower Upper

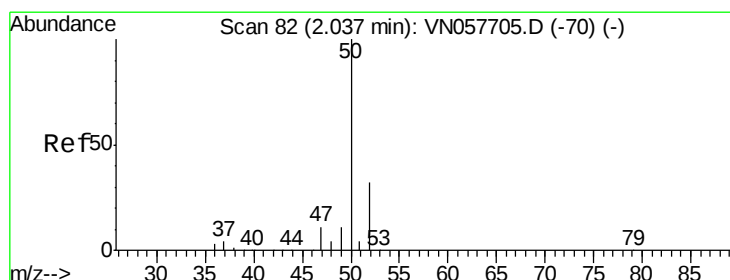
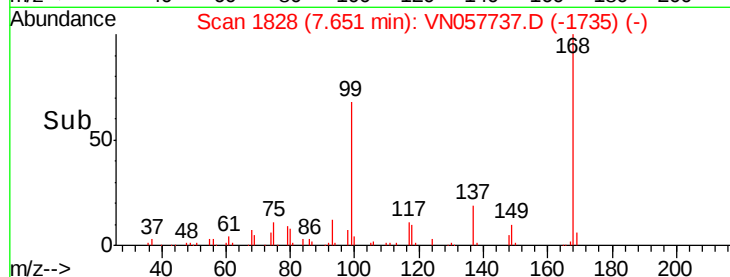
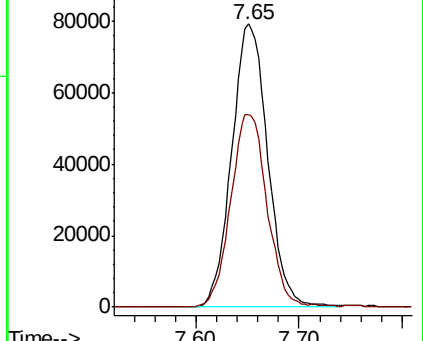
168 100

99 68.2 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN057737.D

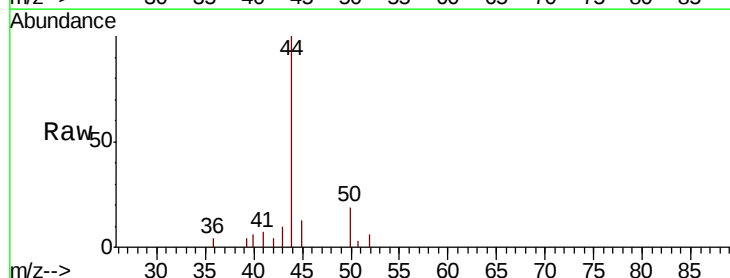
Acq: 7 Sep 2019 00:28

Tgt Ion: 50 Resp: 1369

Ion Ratio Lower Upper

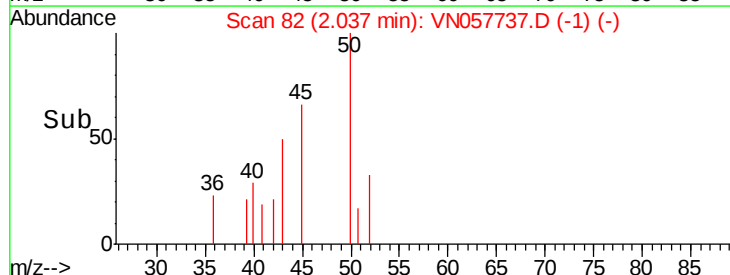
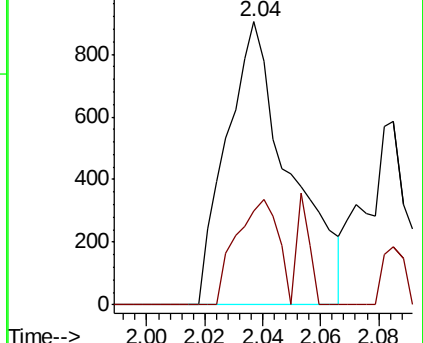
50 100

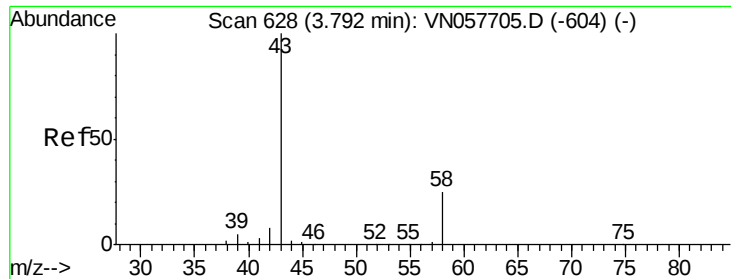
52 33.3 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

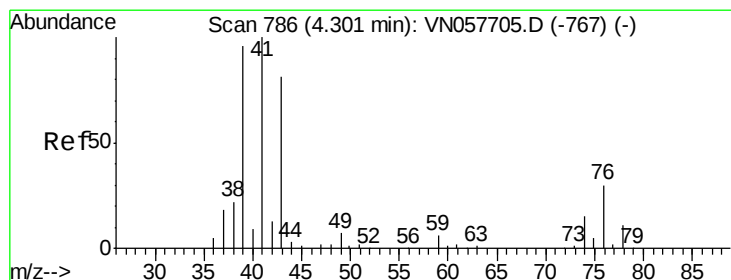
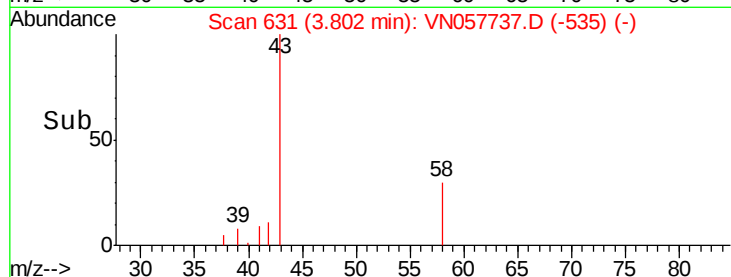
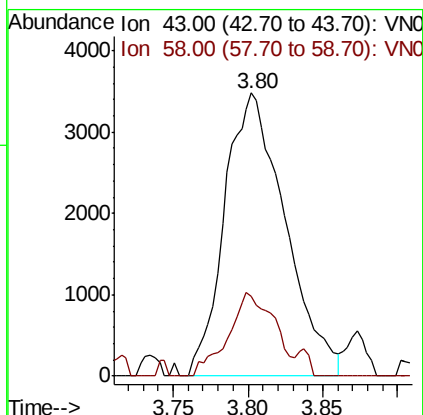
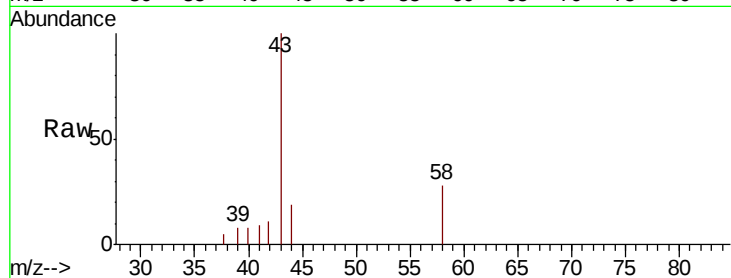




#16
 Acetone
 Concen: 6.816 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN057737.D
 Acq: 7 Sep 2019 00:28

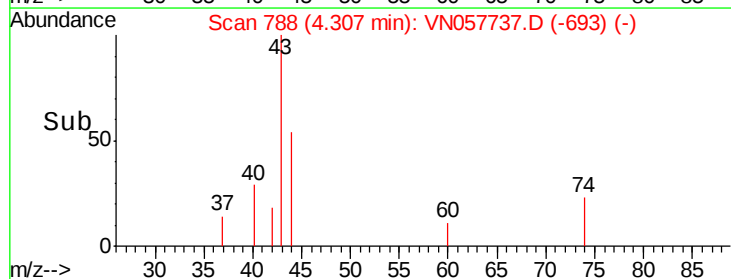
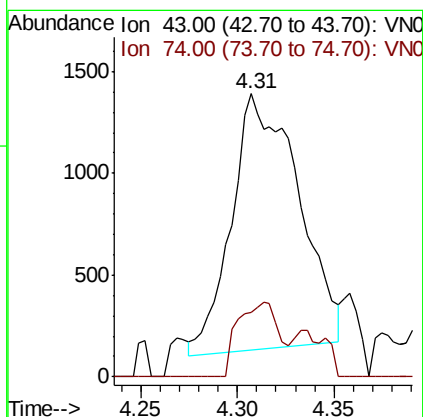
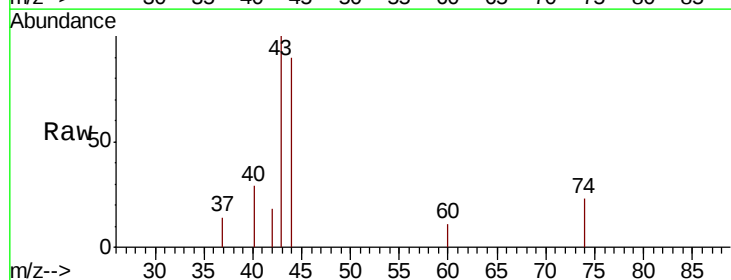
Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

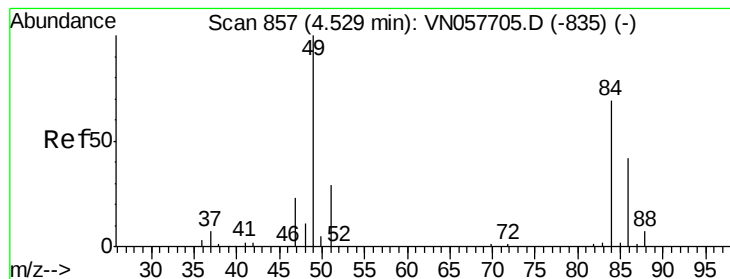
Tgt Ion: 43 Resp: 9799
 Ion Ratio Lower Upper
 43 100
 58 28.2 19.8 29.8



#18
 Methyl Acetate
 Concen: 0.771 ug/l
 RT: 4.31 min Scan# 788
 Delta R.T. 0.01 min
 Lab File: VN057737.D
 Acq: 7 Sep 2019 00:28

Tgt Ion: 43 Resp: 3016
 Ion Ratio Lower Upper
 43 100
 74 18.0 15.3 22.9





#20

Methylene Chloride

Concen: 0.929 ug/l

RT: 4.52 min Scan# 854

Delta R.T. -0.01 min

Lab File: VN057737.D

Acq: 7 Sep 2019 00:28

Instrument :

MSVOA_N

ClientSampleId :

BFB

Tgt Ion: 84 Resp: 2887

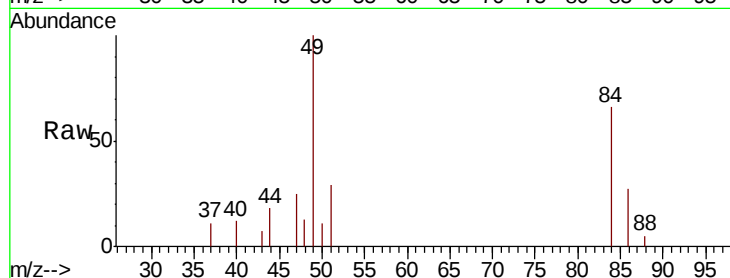
Ion Ratio Lower Upper

84 100

49 151.0 115.0 172.6

51 43.7 33.8 50.8

86 41.2 48.2 72.2#

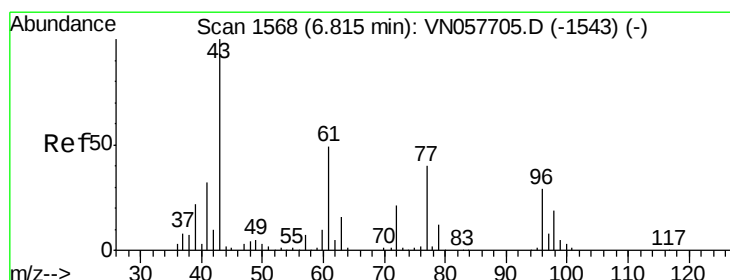
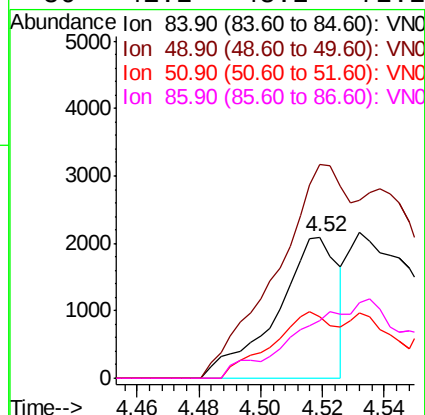
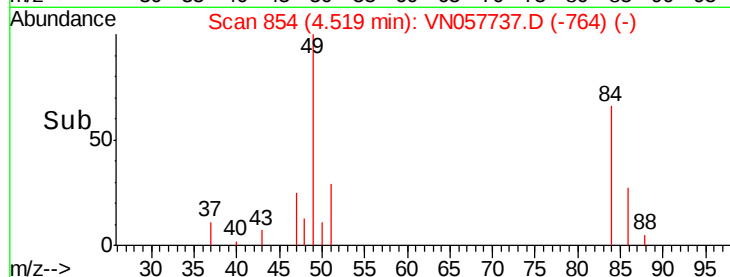


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 0.777 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.02 min

Lab File: VN057737.D

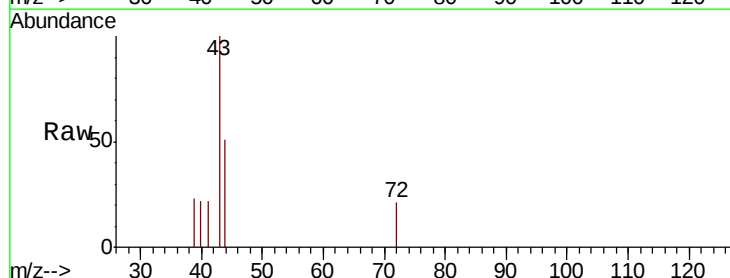
Acq: 7 Sep 2019 00:28

Tgt Ion: 43 Resp: 1599

Ion Ratio Lower Upper

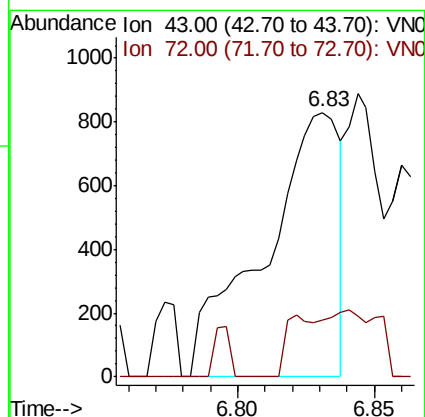
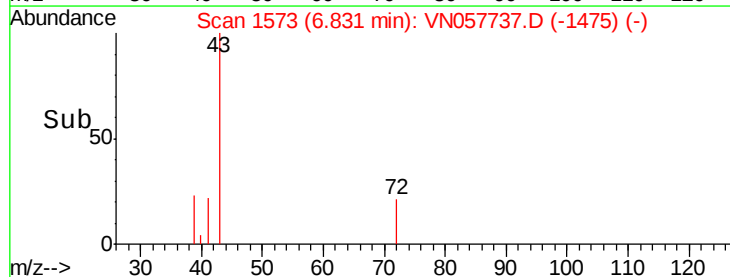
43 100

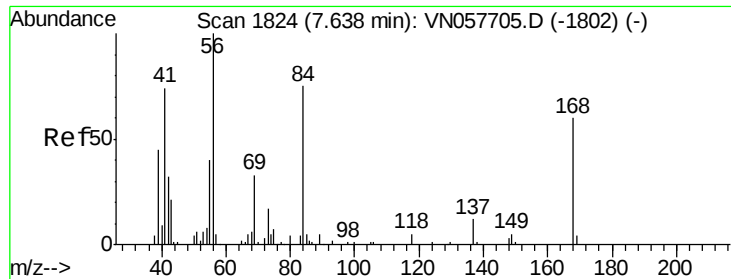
72 21.4 17.0 25.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

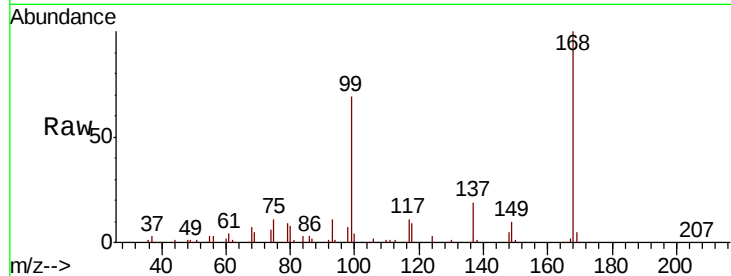




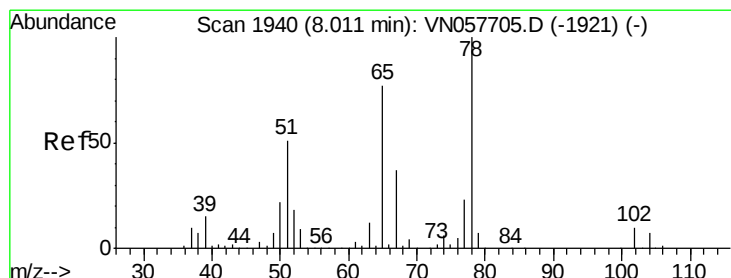
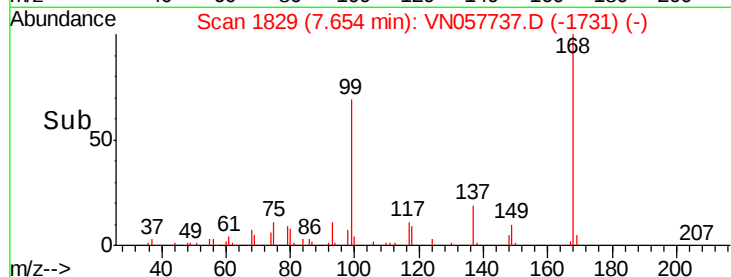
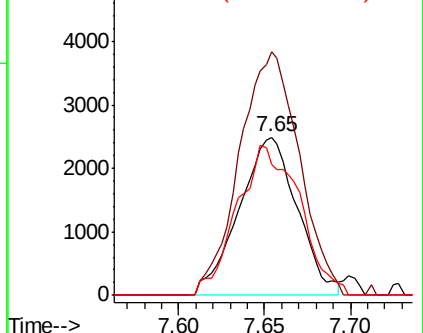
#31
Cyclohexane
Concen: 1.114 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN057737.D
Acq: 7 Sep 2019 00:28

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 56 Resp: 5844
Ion Ratio Lower Upper
56 100
69 154.0 26.2 39.2#
84 82.7 59.8 89.8

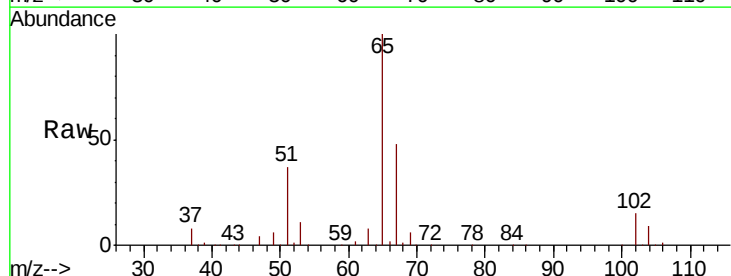


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

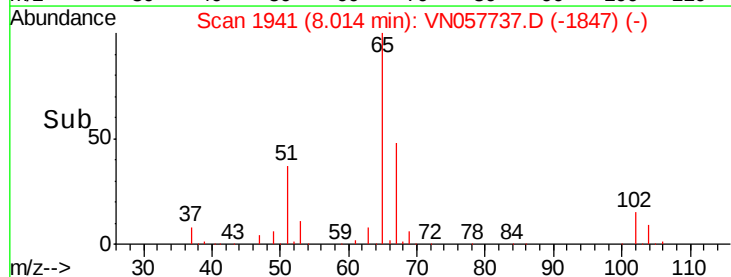
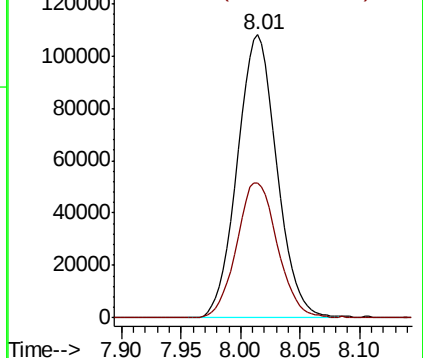


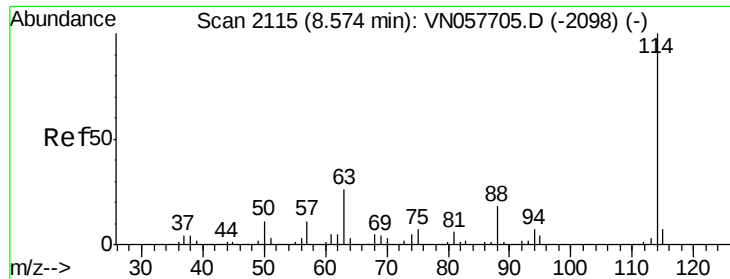
#33
1,2-Dichloroethane-d4
Concen: 53.217 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057737.D
Acq: 7 Sep 2019 00:28

Tgt Ion: 65 Resp: 248631
Ion Ratio Lower Upper
65 100
67 49.3 0.0 98.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

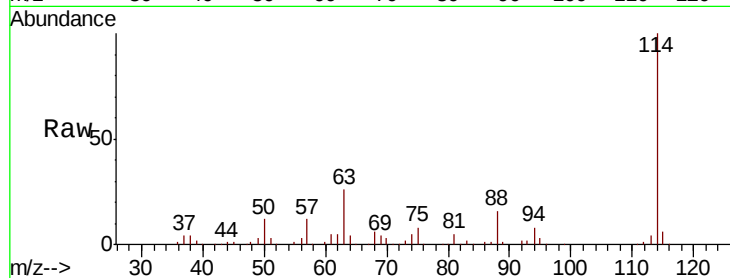




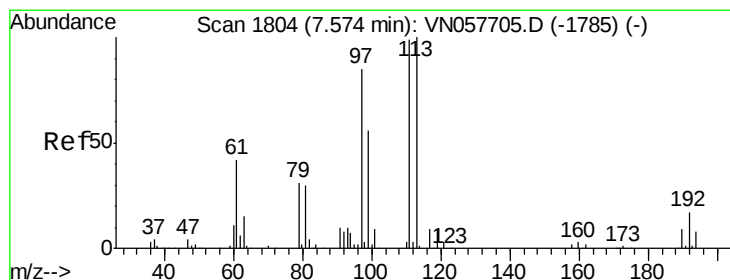
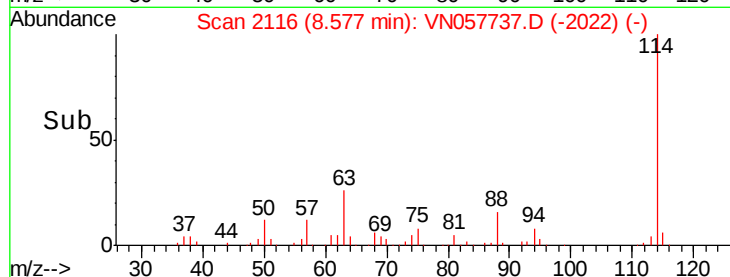
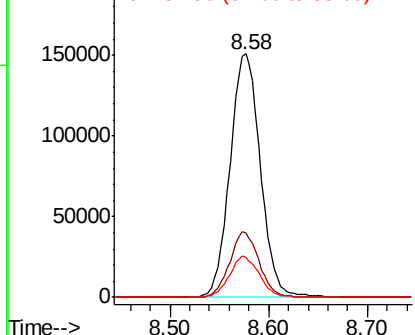
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057737.D
 Acq: 7 Sep 2019 00:28

Instrument :
 MSVOA_N
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Tgt Ion:114 Resp: 323413
 Ion Ratio Lower Upper
 114 100
 63 26.4 0.0 52.4
 88 16.3 0.0 35.4

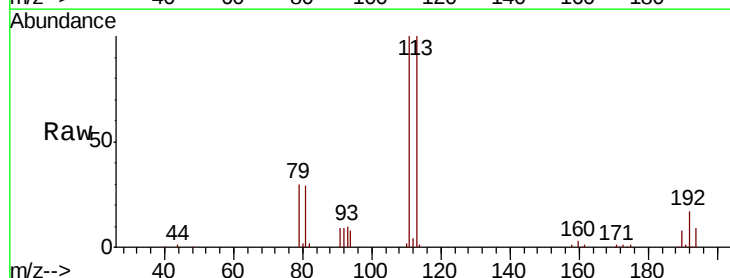


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

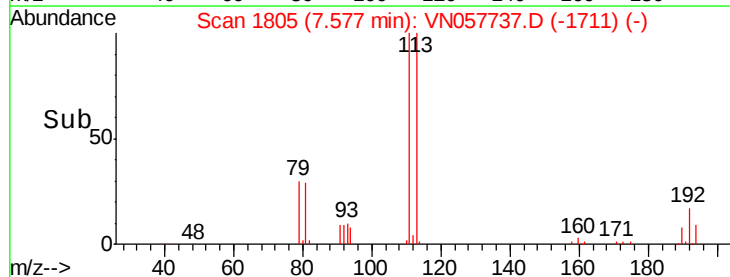
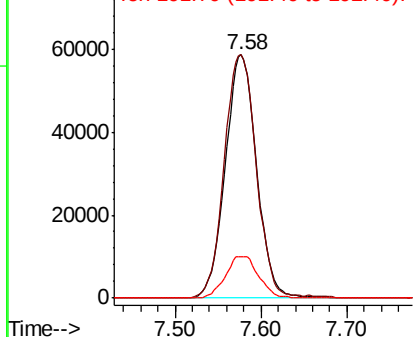


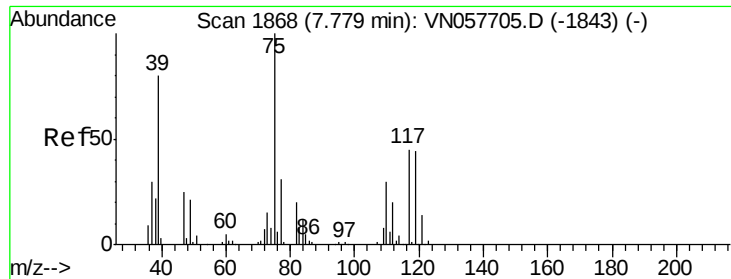
#35
 Dibromofluoromethane
 Concen: 50.379 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057737.D
 Acq: 7 Sep 2019 00:28

Tgt Ion:113 Resp: 148408
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.7 124.1
 192 18.0 13.8 20.6



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: 4.579 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN057737.D

Acq: 7 Sep 2019 00:28

Instrument :

MSVOA_N

ClientSampleId :

BFB

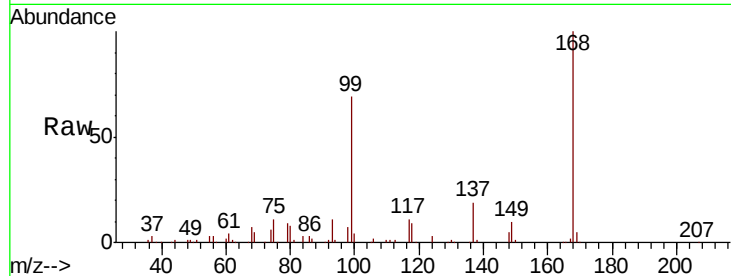
Tgt Ion: 75 Resp: 19703

Ion Ratio Lower Upper

75 100

110 6.2 15.0 45.0#

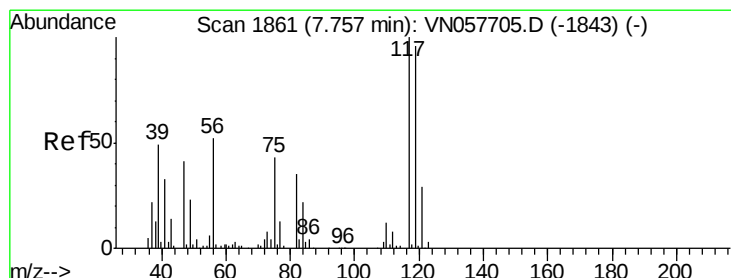
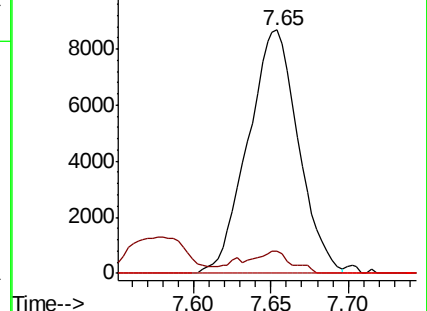
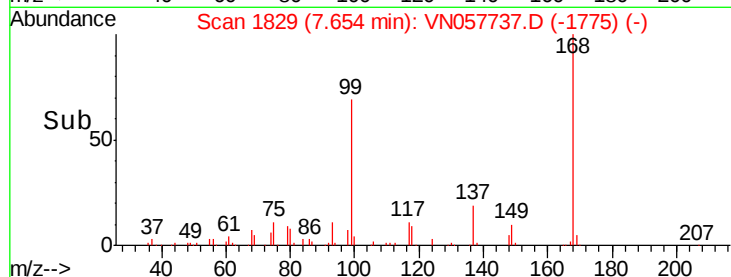
77 0.0 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VN057737.D (-1775) (-)

Ion 109.90 (109.60 to 110.60): VN057737.D (-1775) (-)

Ion 76.90 (76.60 to 77.60): VN057737.D (-1775) (-)



#38

Carbon Tetrachloride

Concen: 5.257 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057737.D

Acq: 7 Sep 2019 00:28

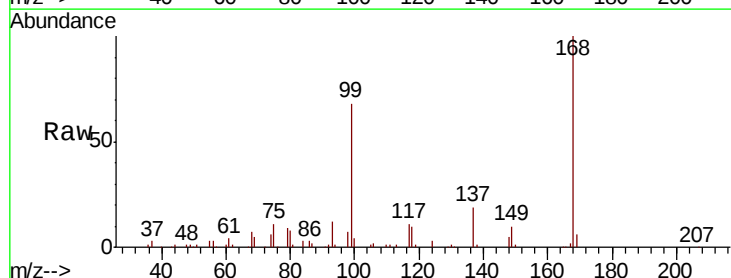
Tgt Ion: 117 Resp: 21659

Ion Ratio Lower Upper

117 100

119 4.9 76.1 114.1#

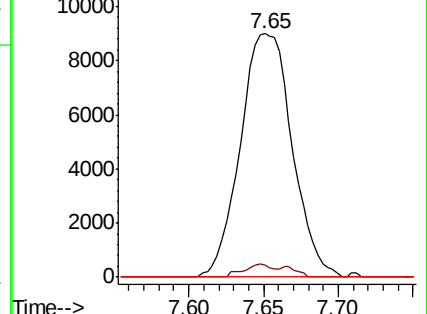
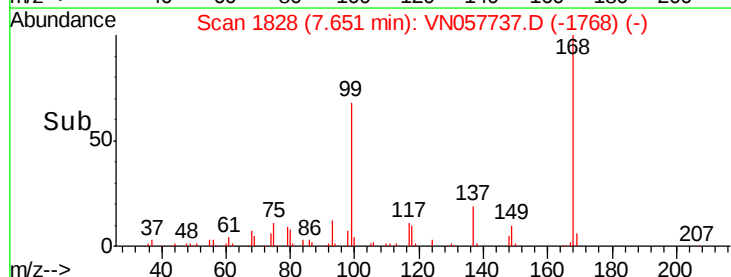
121 0.0 23.4 35.2#

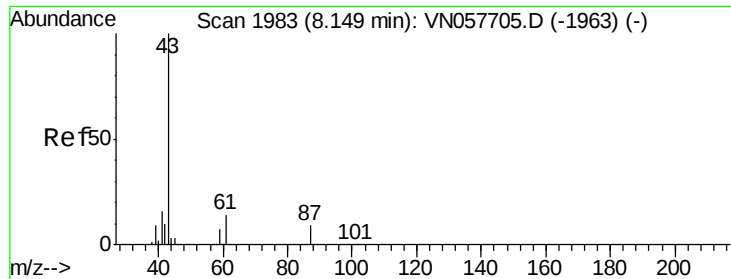


Abundance Ion 116.80 (116.50 to 117.50): VN057737.D (-1768) (-)

Ion 118.80 (118.50 to 119.50): VN057737.D (-1768) (-)

Ion 120.80 (120.50 to 121.50): VN057737.D (-1768) (-)





#43

Isopropyl Acetate

Concen: 8.008 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057737.D

Acq: 7 Sep 2019 00:28

Instrument :

MSVOA_N

ClientSampleId :

BFB

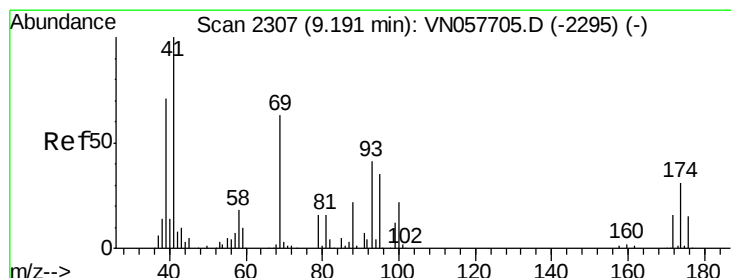
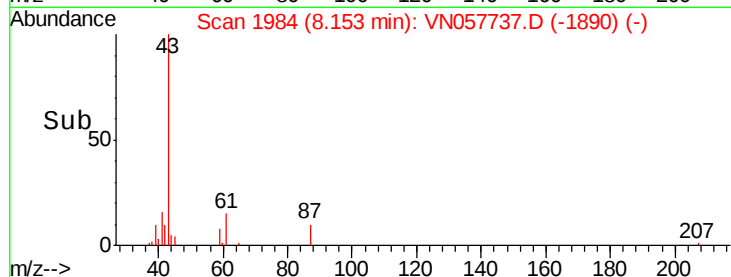
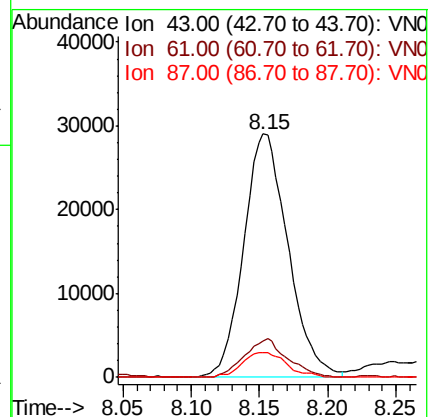
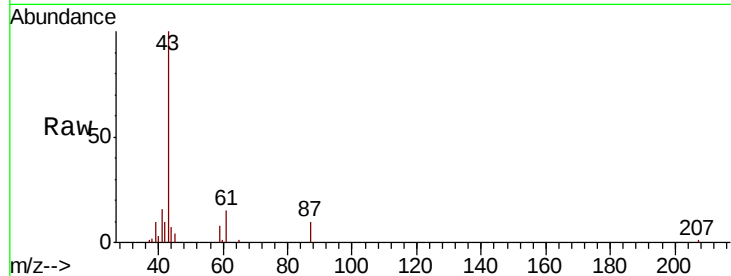
Tgt Ion: 43 Resp: 65652

Ion Ratio Lower Upper

43 100

61 15.3 12.8 19.2

87 10.2 7.8 11.8



#48

Methyl methacrylate

Concen: 1.005 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.01 min

Lab File: VN057737.D

Acq: 7 Sep 2019 00:28

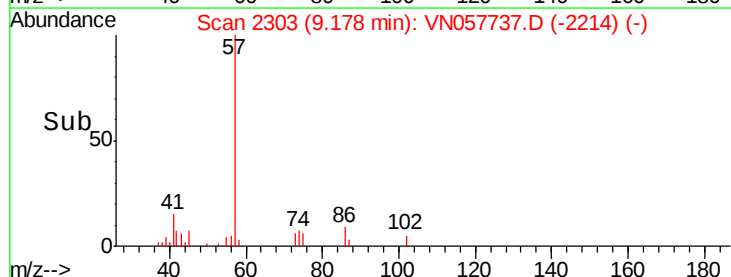
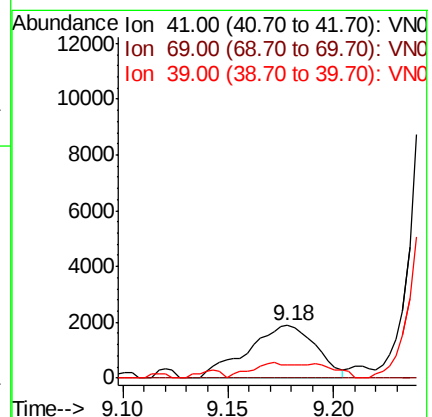
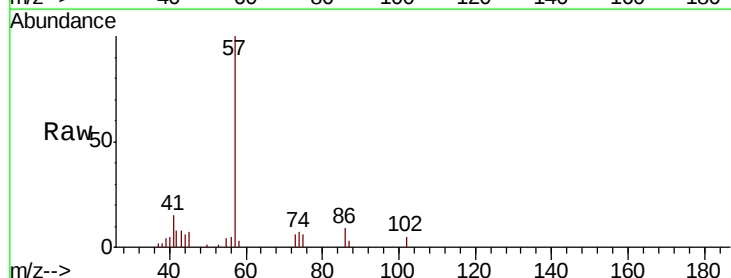
Tgt Ion: 41 Resp: 4237

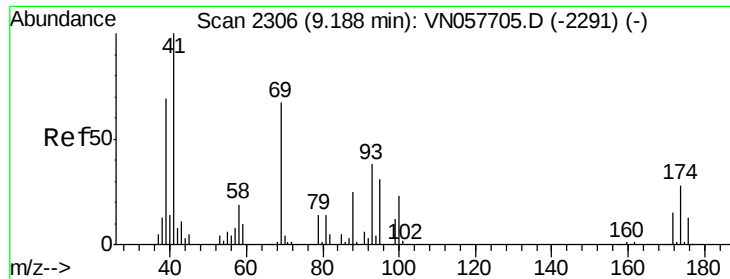
Ion Ratio Lower Upper

41 100

69 0.0 51.2 76.8#

39 0.0 57.3 85.9#





#49

1,4-Dioxane

Concen: 2.222 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.07 min

Lab File: VN057737.D

Acq: 7 Sep 2019 00:28

Instrument :

MSVOA_N

ClientSampleId :

BFB

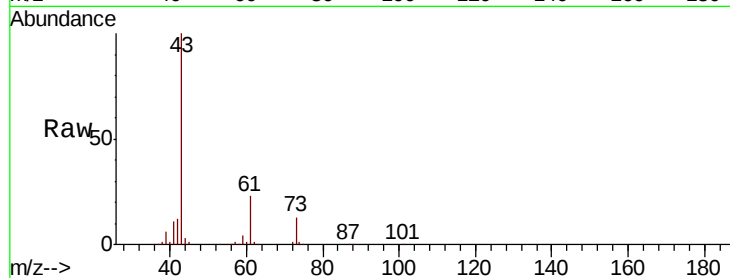
Tgt Ion: 88 Resp: 109

Ion Ratio Lower Upper

88 100

43 889895.4 35.4 53.2#

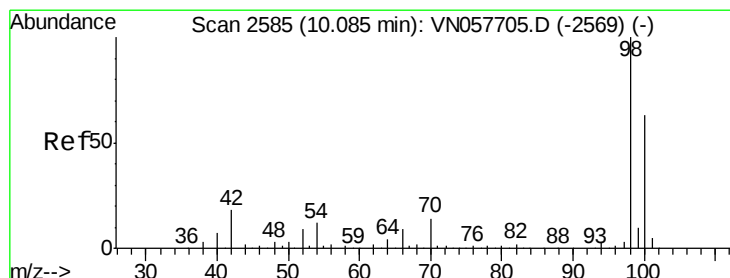
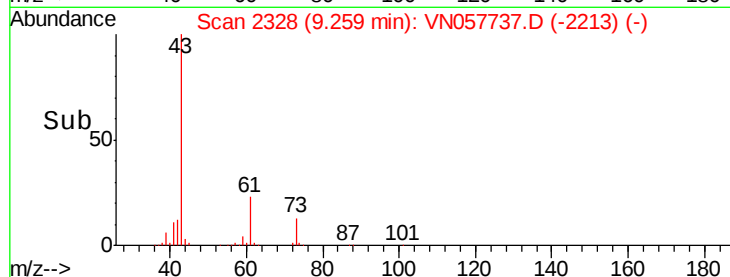
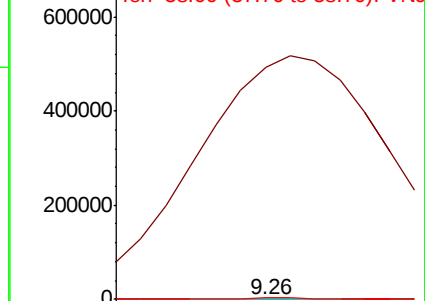
58 3980.7 61.5 92.3#



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: 52.196 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057737.D

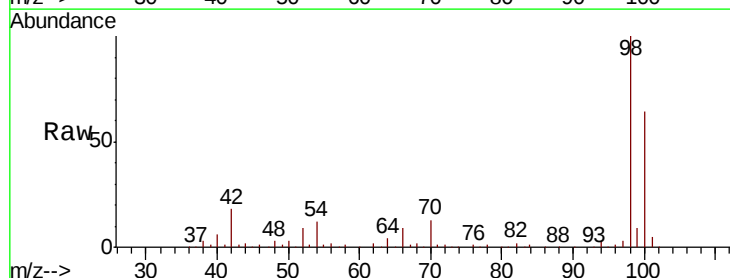
Acq: 7 Sep 2019 00:28

Tgt Ion: 98 Resp: 568789

Ion Ratio Lower Upper

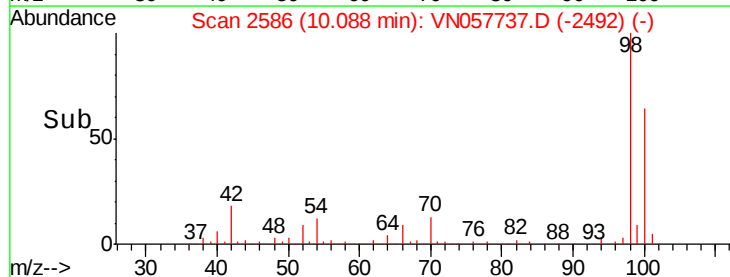
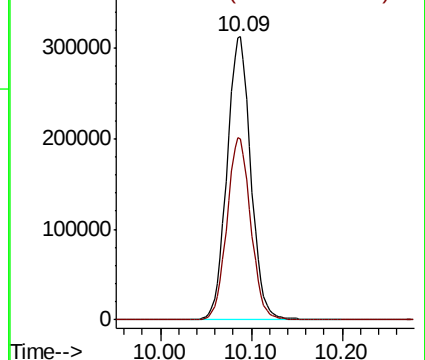
98 100

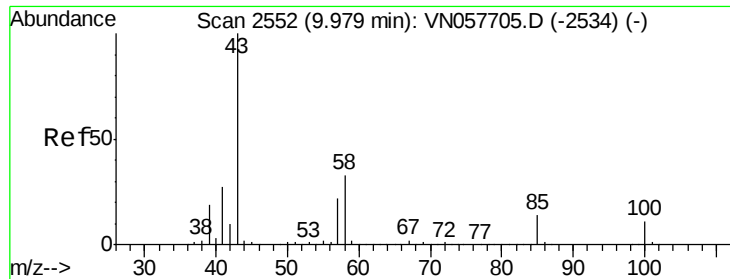
100 64.0 50.7 76.1



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: 0.925 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057737.D

Acq: 7 Sep 2019 00:28

Instrument :

MSVOA_N

ClientSampled :

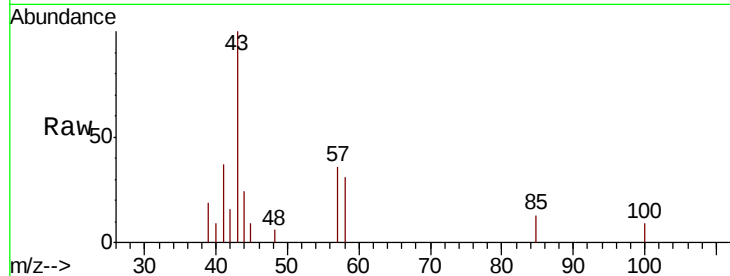
BFB

Tgt Ion: 43 Resp: 4214

Ion Ratio Lower Upper

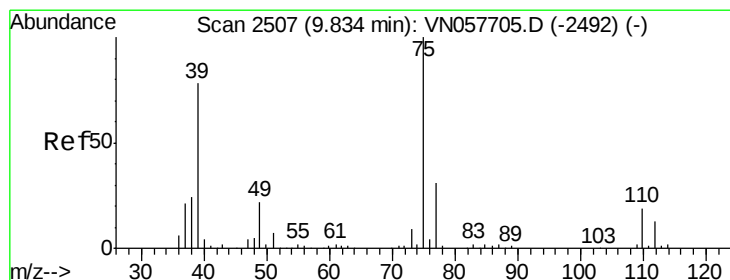
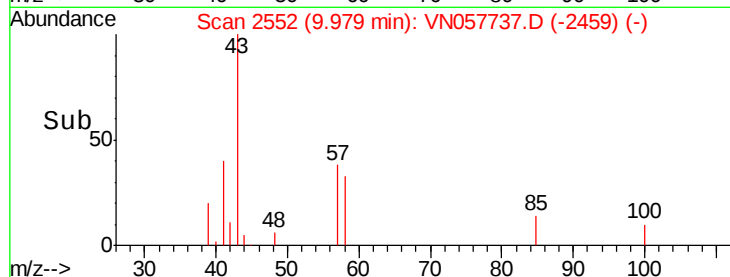
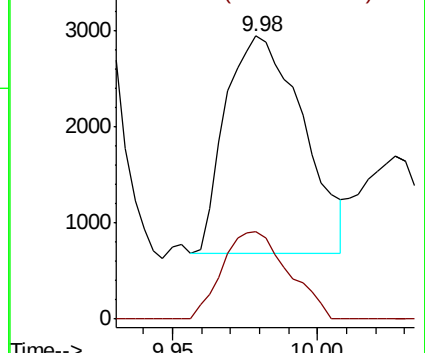
43 100

58 34.4 25.8 38.8



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: 4.881 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057737.D

Acq: 7 Sep 2019 00:28

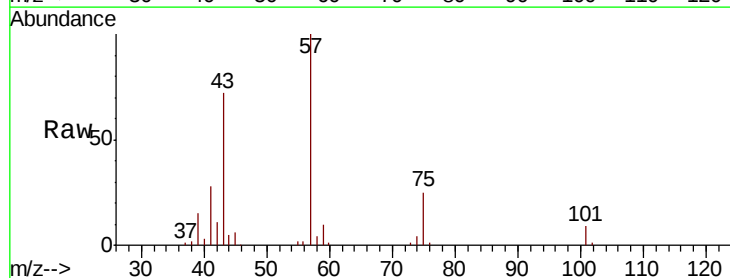
Tgt Ion: 75 Resp: 24546

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

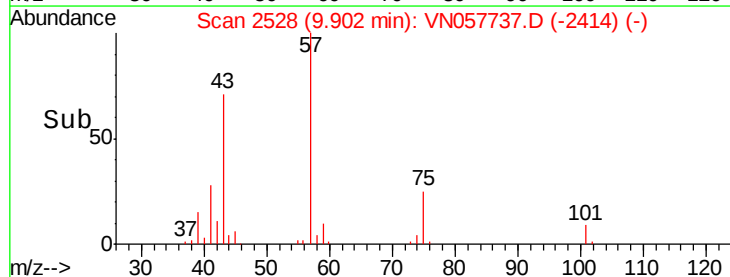
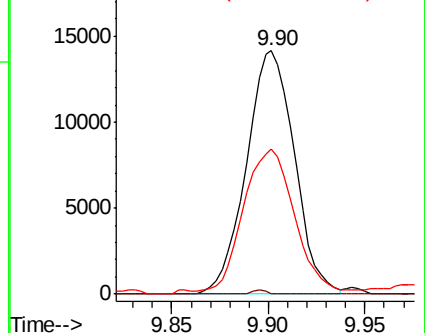
39 58.3 62.4 93.6#

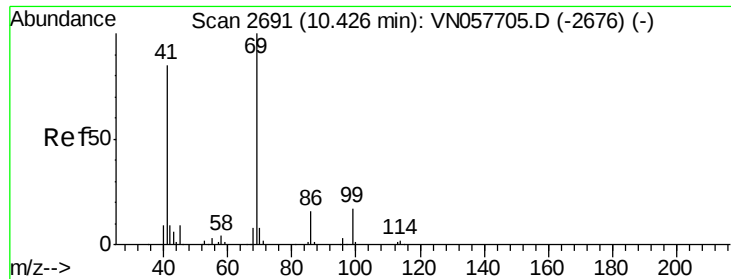


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

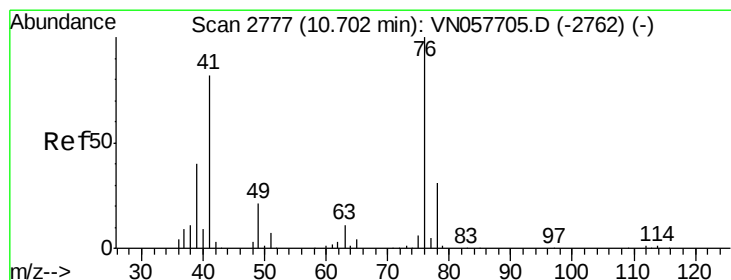
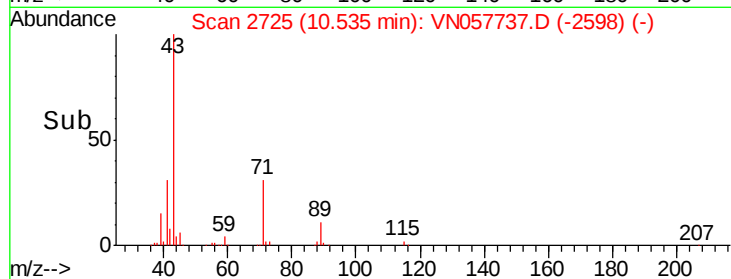
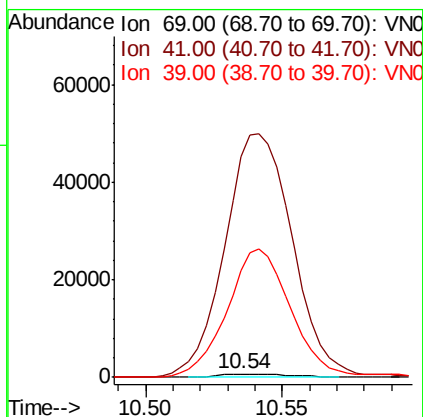
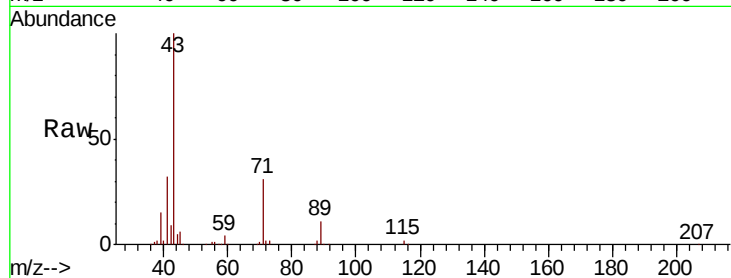




#56
Ethyl methacrylate
Concen: 0.234 ug/l
RT: 10.54 min Scan# 2725
Delta R.T. 0.11 min
Lab File: VN057737.D
Acq: 7 Sep 2019 00:28

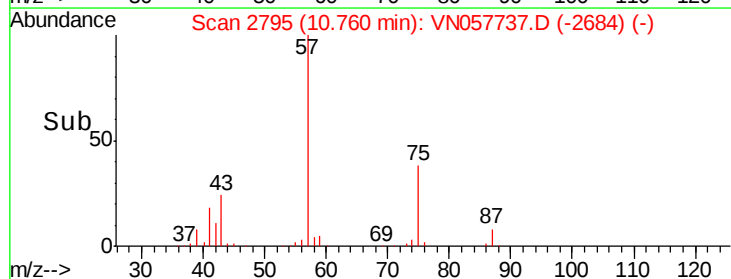
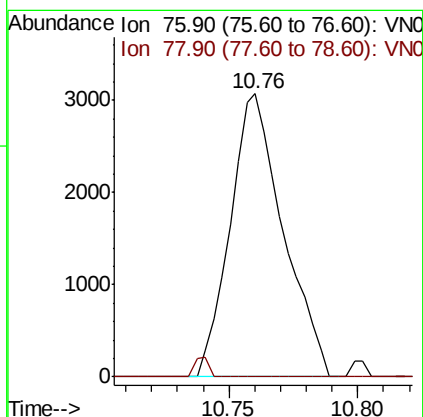
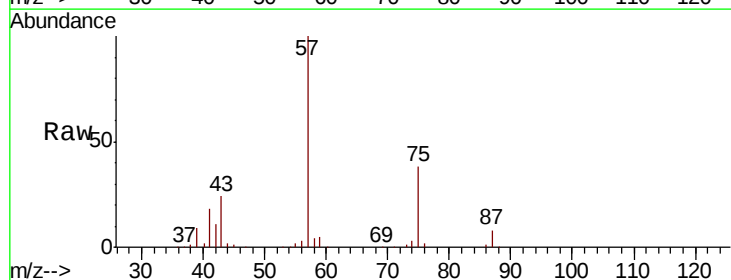
Instrument :
MSVOA_N
ClientSampleId :
BFB

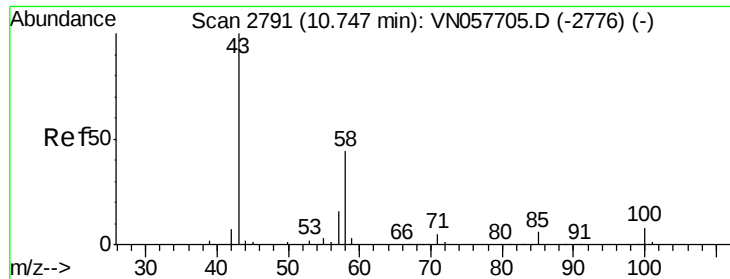
Tgt Ion: 69 Resp: 1107
Ion Ratio Lower Upper
69 100
41 7821.9 69.0 103.4#
39 3843.7 49.2 73.8#



#57
1,3-Dichloropropane
Concen: 0.825 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.06 min
Lab File: VN057737.D
Acq: 7 Sep 2019 00:28

Tgt Ion: 76 Resp: 4399
Ion Ratio Lower Upper
76 100
78 1.8 25.5 38.3#

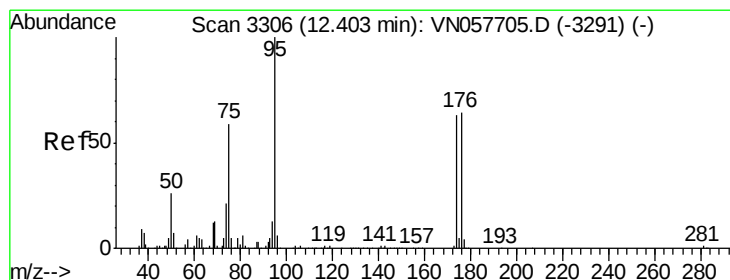
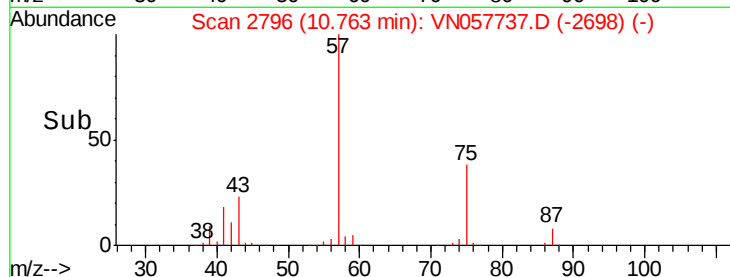
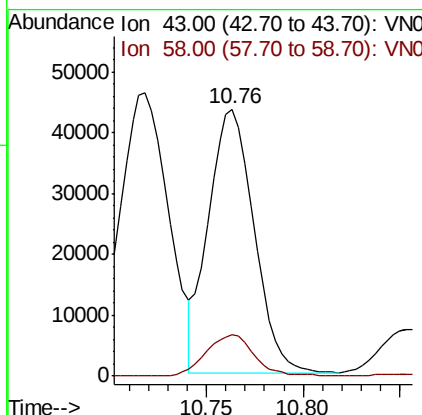
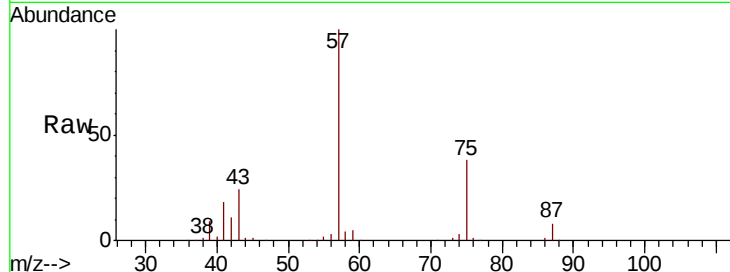




#59
2-Hexanone
Concen: 22.199 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.02 min
Lab File: VN057737.D
Acq: 7 Sep 2019 00:28

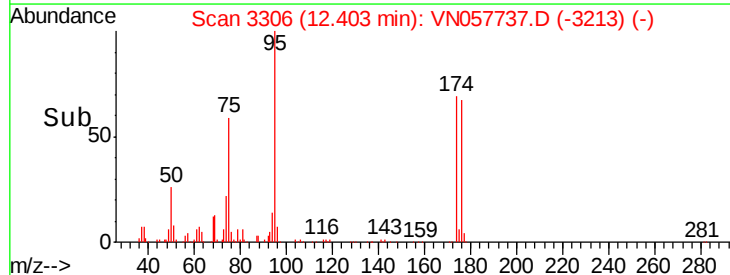
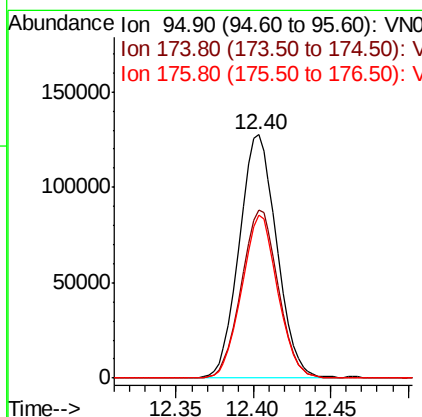
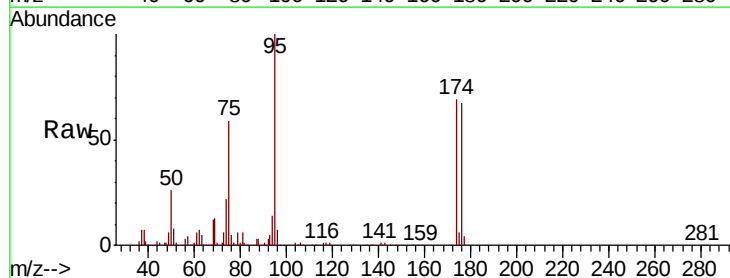
Instrument :
MSVOA_N
ClientSampled :
BFB

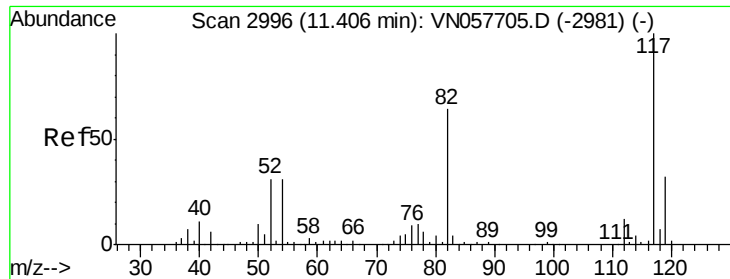
Tgt Ion: 43 Resp: 71275
Ion Ratio Lower Upper
43 100
58 16.3 22.1 66.5#



#62
4-Bromofluorobenzene
Concen: 47.473 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057737.D
Acq: 7 Sep 2019 00:28

Tgt Ion: 95 Resp: 214874
Ion Ratio Lower Upper
95 100
174 68.1 0.0 128.0
176 64.6 0.0 128.0

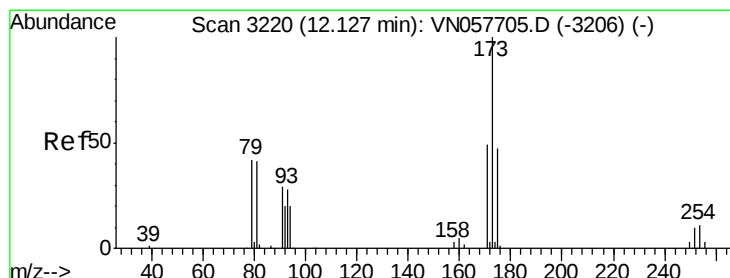
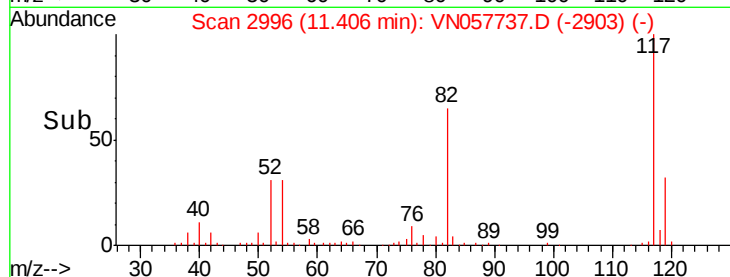
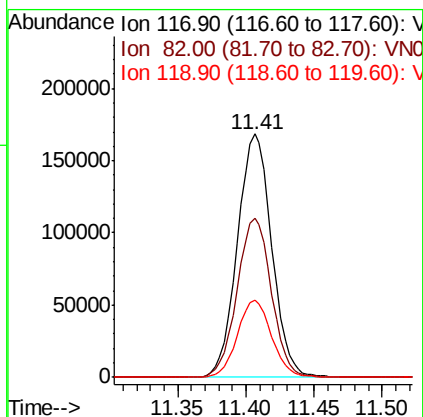
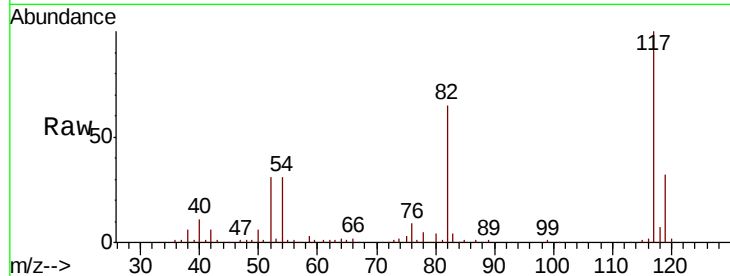




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057737.D
Acq: 7 Sep 2019 00:28

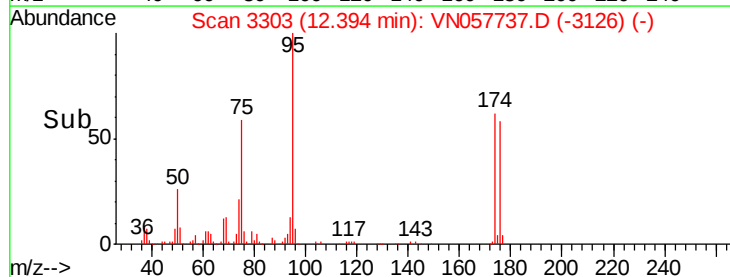
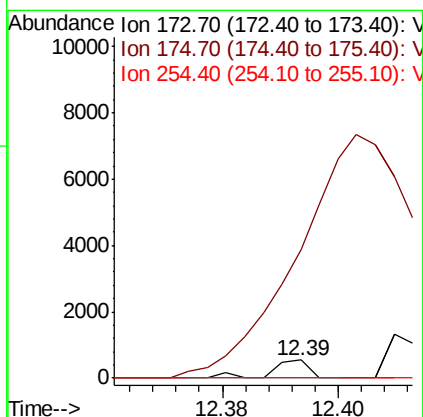
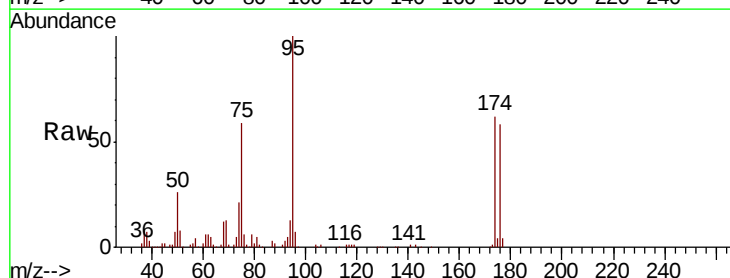
Instrument :
MSVOA_N
ClientSampled :
BFB

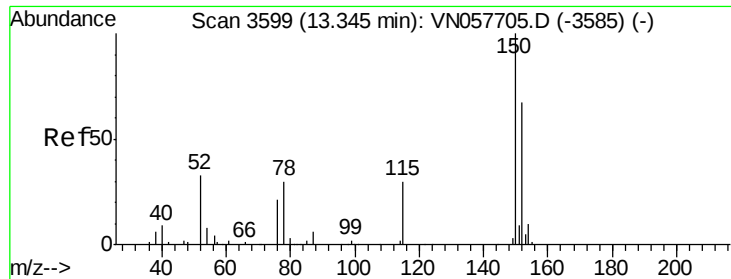
Tgt Ion:117 Resp: 294844
Ion Ratio Lower Upper
117 100
82 65.4 51.4 77.0
119 31.5 25.4 38.2



#71
Bromoform
Concen: 3.347 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN057737.D
Acq: 7 Sep 2019 00:28

Tgt Ion:173 Resp: 224
Ion Ratio Lower Upper
173 100
175 4160.7 24.6 73.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN057737.D

Acq: 7 Sep 2019 00:28

Instrument :

MSVOA_N

ClientSampleId :

BFB

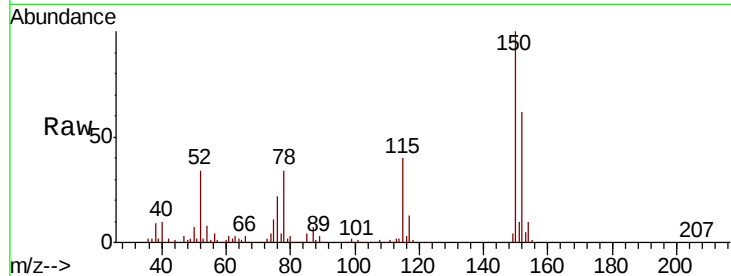
Tgt Ion:152 Resp: 149807

Ion Ratio Lower Upper

152 100

115 63.5 33.8 101.3

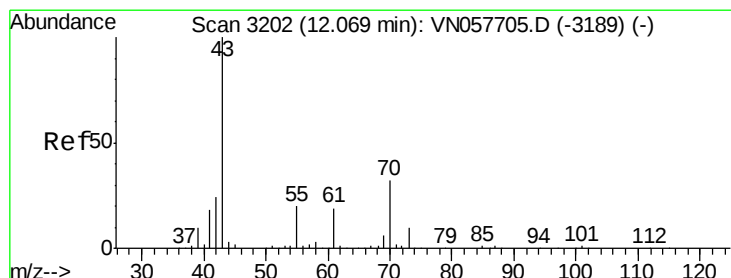
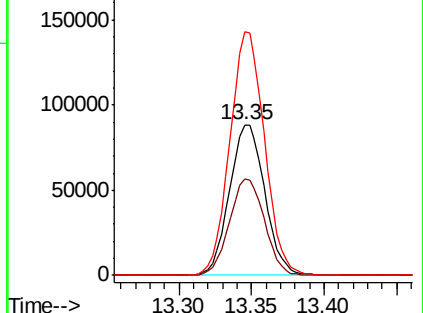
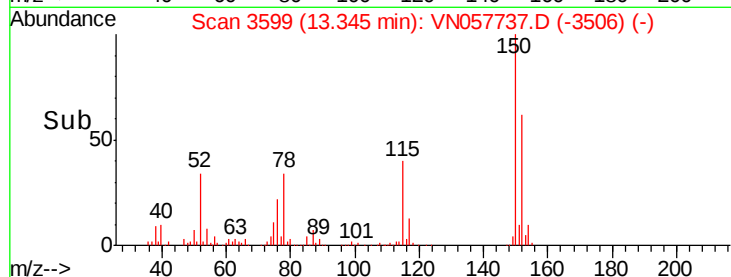
150 158.0 0.0 345.4



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-ethyl acetate

Concen: 0.333 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057737.D

Acq: 7 Sep 2019 00:28

Tgt Ion: 43 Resp: 2202

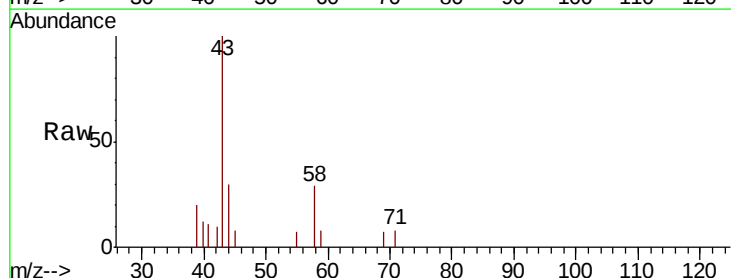
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 4.7 16.3 24.5#

61 0.0 15.0 22.4#

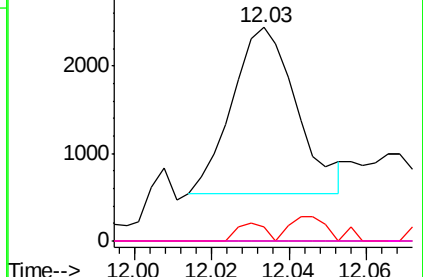
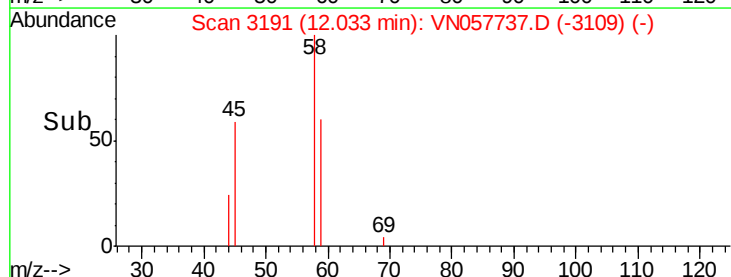


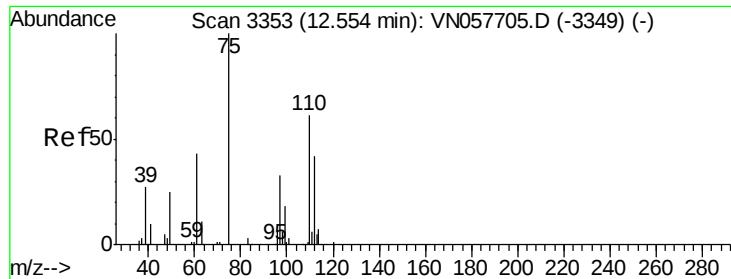
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 37.099 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057737.D

Acq: 7 Sep 2019 00:28

Instrument :

MSVOA_N

ClientSampleId :

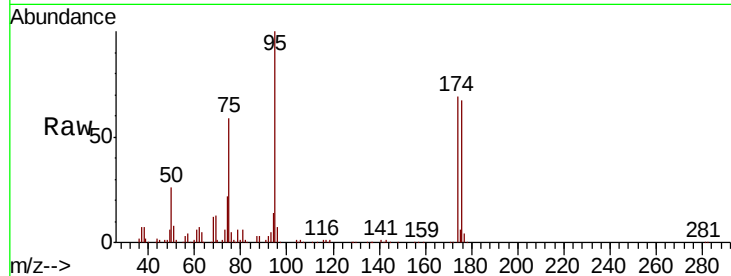
BFB

Tgt Ion: 75 Resp: 127626

Ion Ratio Lower Upper

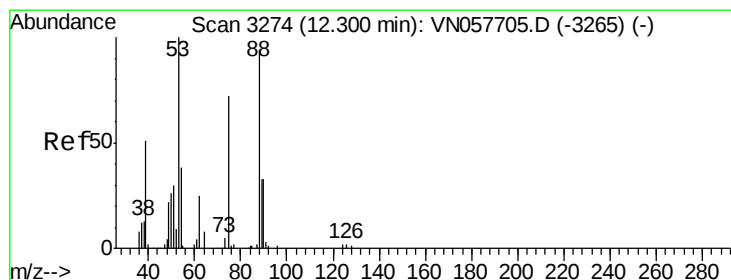
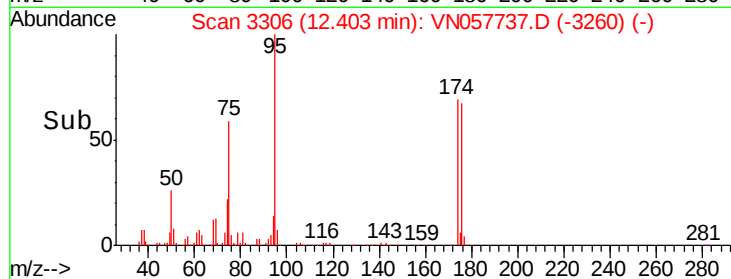
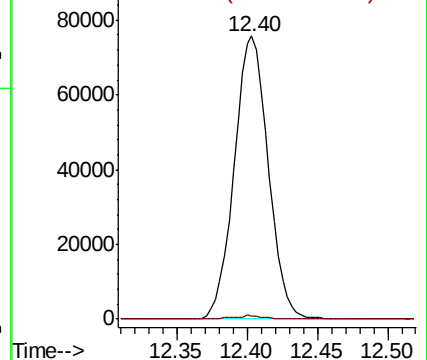
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 115.379 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057737.D

Acq: 7 Sep 2019 00:28

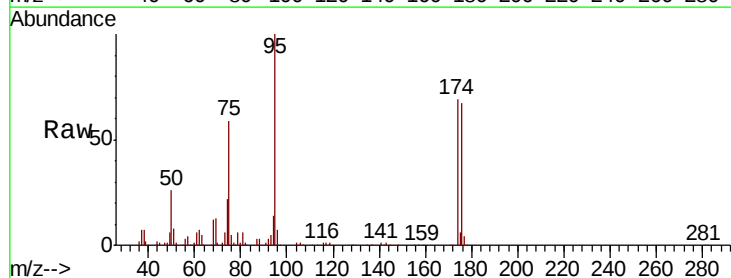
Tgt Ion: 75 Resp: 127626

Ion Ratio Lower Upper

75 100

53 0.0 107.0 160.6#

89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

