

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100820\
 Data File : VN064017.D
 Acq On : 9 Oct 2020 3:40
 Operator : JC/MD
 Sample : PB132189ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

Quant Time: Oct 09 07:05:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	244968	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	481084	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	492791	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	190625	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	208972	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
35) Dibromofluoromethane	7.55	113	156239	46.80	ug/l	0.00
Spiked Amount			Recovery	=	93.60%	
50) Toluene-d8	10.06	98	608052	48.05	ug/l	0.00
Spiked Amount			Recovery	=	96.10%	
62) 4-Bromofluorobenzene	12.38	95	235435	49.49	ug/l	0.00
Spiked Amount			Recovery	=	98.98%	

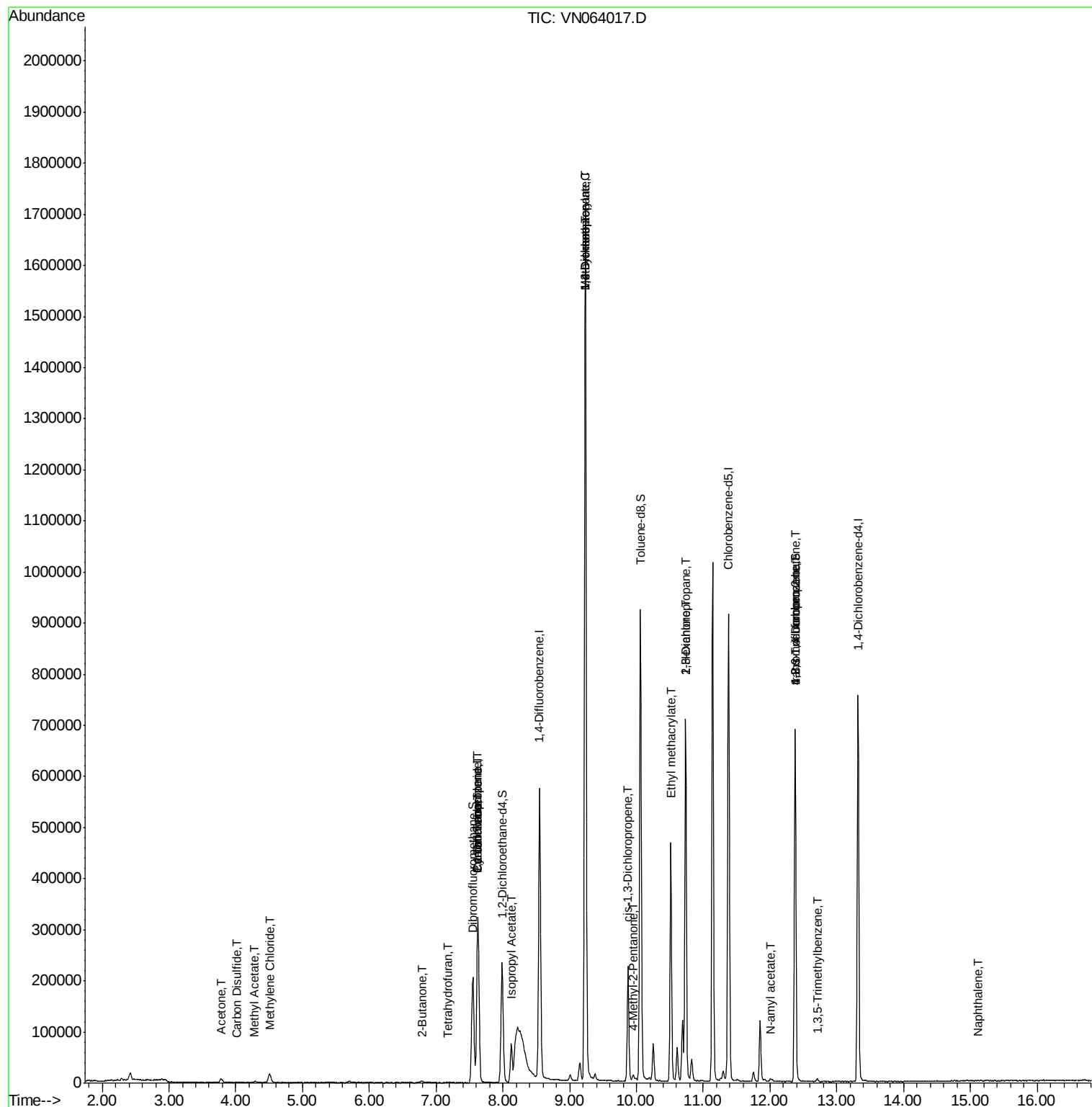
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	13616	10.929	ug/l	94
17) Carbon Disulfide	4.01	76	608	0.791	ug/l #	76
18) Methyl Acetate	4.28	43	2034	0.629	ug/l	94
20) Methylene Chloride	4.50	84	11801	4.226	ug/l	95
25) 2-Butanone	6.80	43	2110	1.195	ug/l	96
29) Tetrahydrofuran	7.17	42	400	0.338	ug/l #	64
31) Cyclohexane	7.62	56	6713	1.429	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	21025	4.314	ug/l #	51
38) Carbon Tetrachloride	7.62	117	26460	4.841	ug/l #	16
43) Isopropyl Acetate	8.13	43	87640	10.973	ug/l	100
45) 1,2-Dichloropropane	9.23	63	1879	0.500	ug/l #	44
48) Methyl methacrylate	9.23	41	168388	42.672	ug/l #	45
49) 1,4-Dioxane	9.23	88	197	3.513	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	6754	1.441	ug/l #	85
54) cis-1,3-Dichloropropene	9.87	75	35872	5.986	ug/l #	65
56) Ethyl methacrylate	10.51	69	2436	0.498	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	6832	1.169	ug/l #	43
59) 2-Hexanone	10.74	43	109468	31.439	ug/l #	56
74) N-amyl acetate	12.00	43	2239	2.547	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	124487	29.625	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3241	0.278	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	124487	85.324	ug/l #	6
95) Naphthalene	15.11	128	201	1.943	ug/l #	69

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

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QLast Update : Thu Oct 01 01:46:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064017.D

Acq: 9 Oct 2020 3:40

Instrument :

MSVOA_N

ClientSampled :

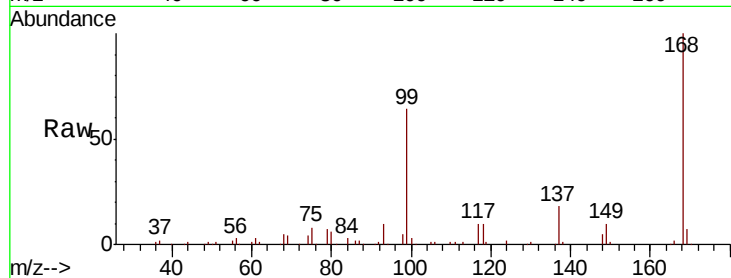
BFB

Tot Ion:168 Resp: 244968

Ion Ratio Lower Upper

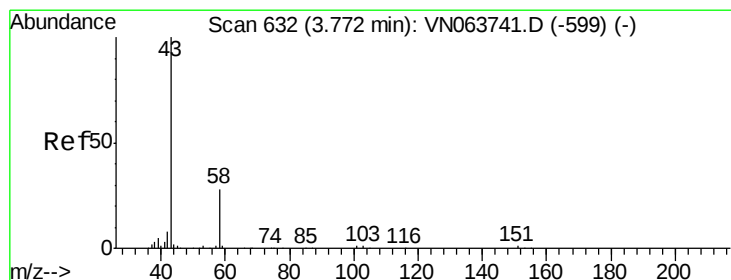
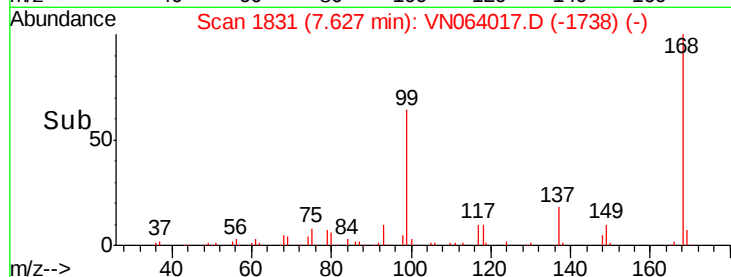
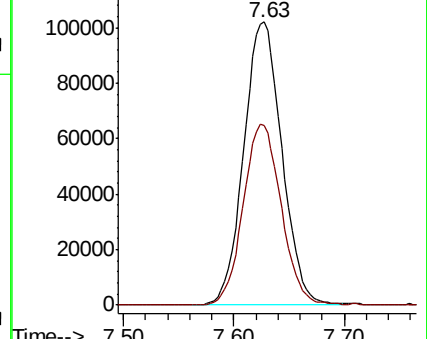
168 100

99 63.7 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 10.929 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064017.D

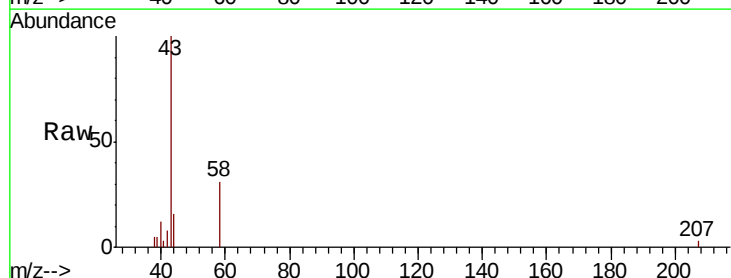
Acq: 9 Oct 2020 3:40

Tgt Ion: 43 Resp: 13616

Ion Ratio Lower Upper

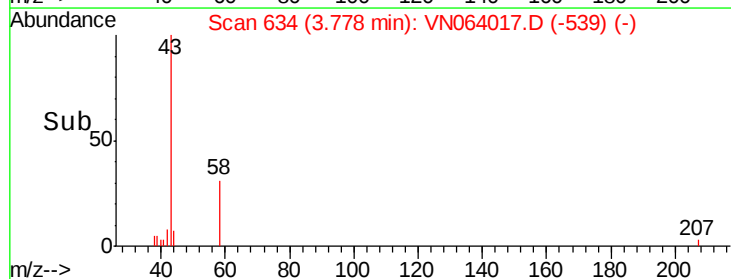
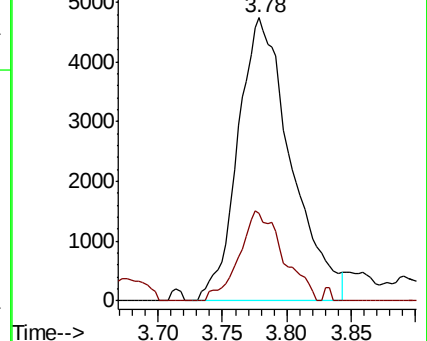
43 100

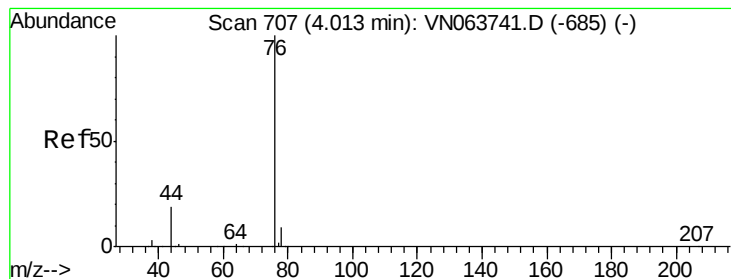
58 30.8 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#17

Carbon Disulfide

Concen: 0.791 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN064017.D

Acq: 9 Oct 2020 3:40

Instrument :

MSVOA_N

ClientSampleId :

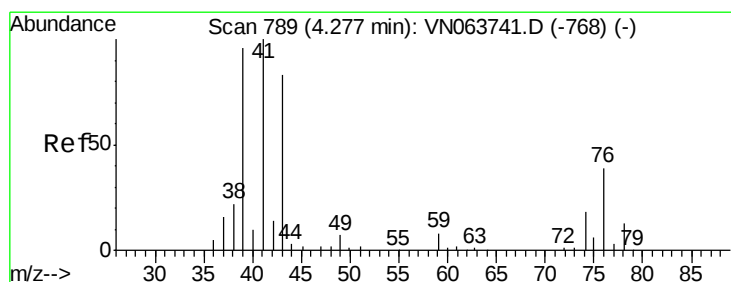
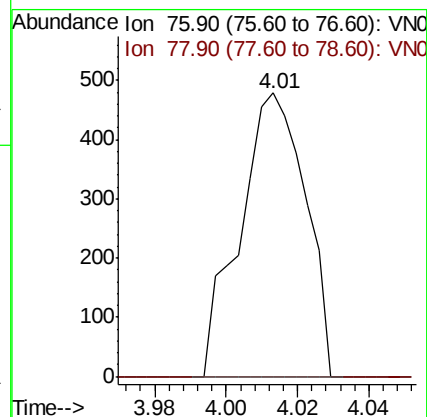
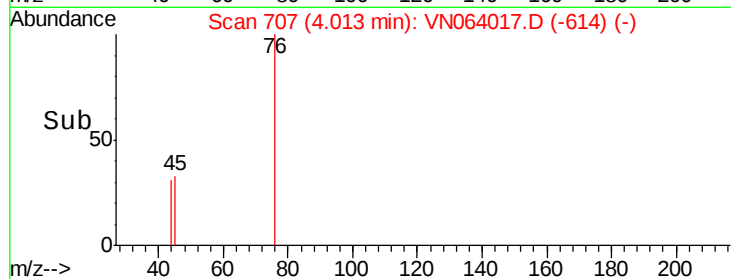
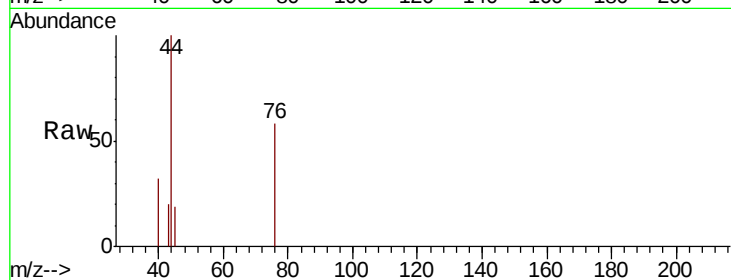
BFB

Tot Ion: 76 Resp: 608

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



#18

Methyl Acetate

Concen: 0.629 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN064017.D

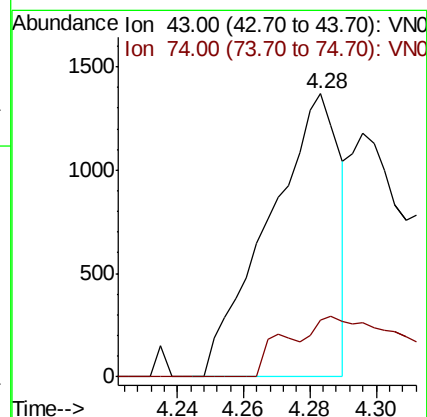
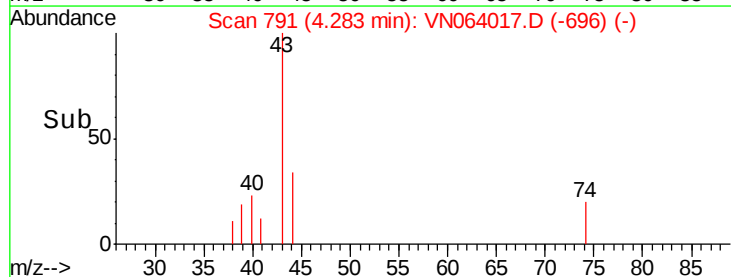
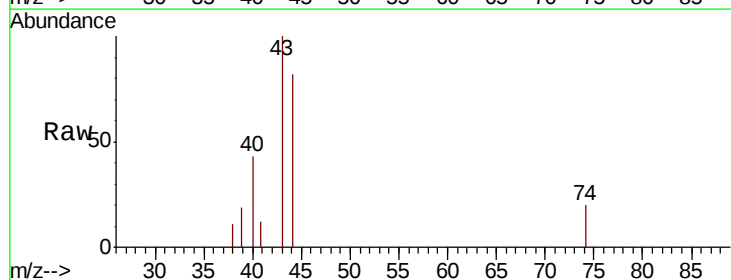
Acq: 9 Oct 2020 3:40

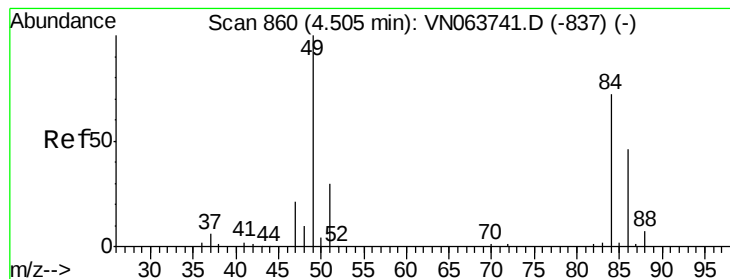
Tgt Ion: 43 Resp: 2034

Ion Ratio Lower Upper

43 100

74 24.6 17.4 26.2





#20

Methvlene Chloride

Concen: 4.226 ug/l

RT: 4.50 min Scan# 859

Delta R.T. -0.00 min

Lab File: VN064017.D

Acq: 9 Oct 2020 3:40

Instrument :

MSVOA_N

ClientSampled :

BFB

Tot Ion: 84 Resp: 11801

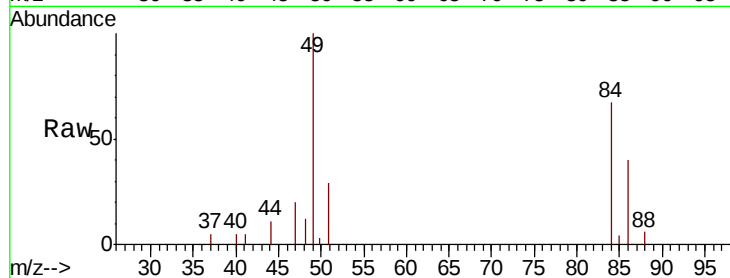
Ion Ratio Lower Upper

84 100

49 146.2 110.4 165.6

51 44.0 33.3 49.9

86 60.8 50.7 76.1

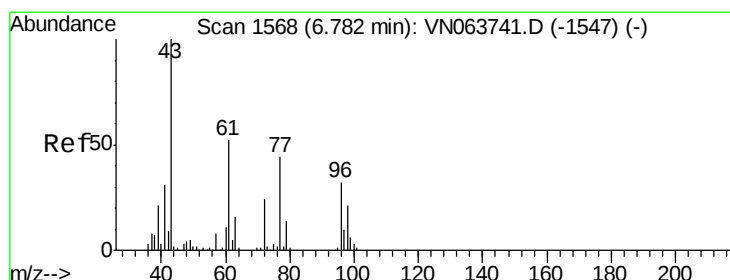
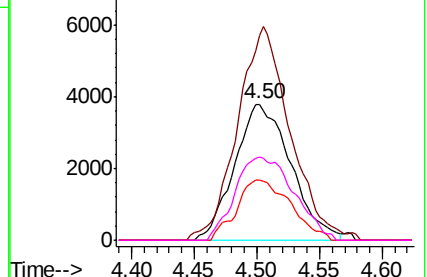
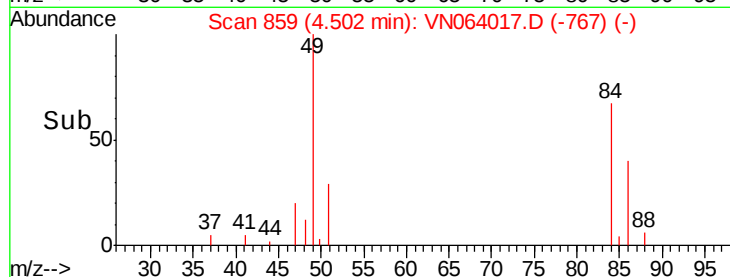


Abundance Ion 83.90 (83.60 to 84.60): VN0

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: 1.195 ug/l

RT: 6.80 min Scan# 1573

Delta R.T. 0.02 min

Lab File: VN064017.D

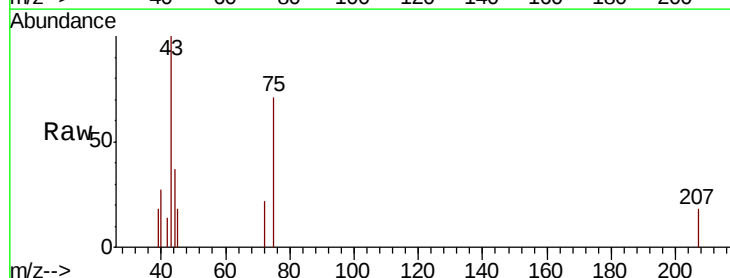
Acq: 9 Oct 2020 3:40

Tgt Ion: 43 Resp: 2110

Ion Ratio Lower Upper

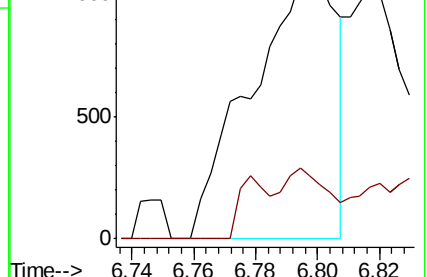
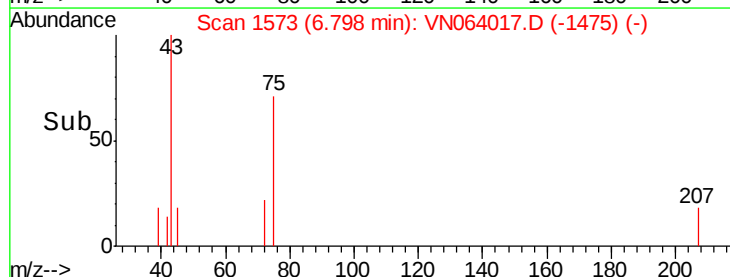
43 100

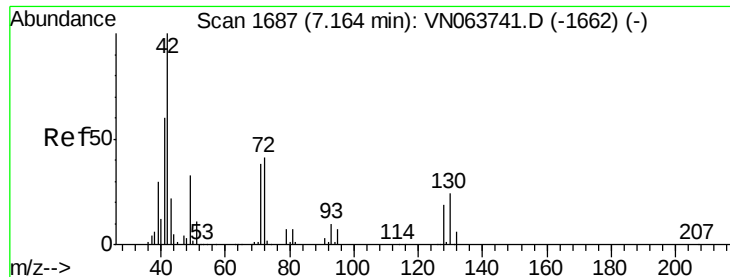
72 22.1 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.338 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN064017.D

Acq: 9 Oct 2020 3:40

Instrument :

MSVOA_N

ClientSampled :

BFB

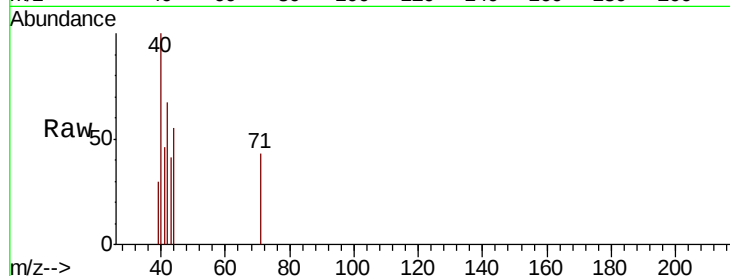
Tot Ion: 42 Resp: 400

Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

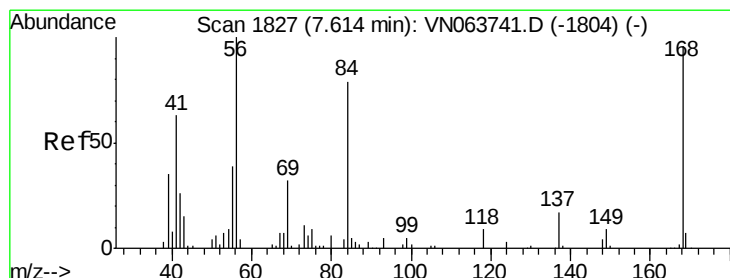
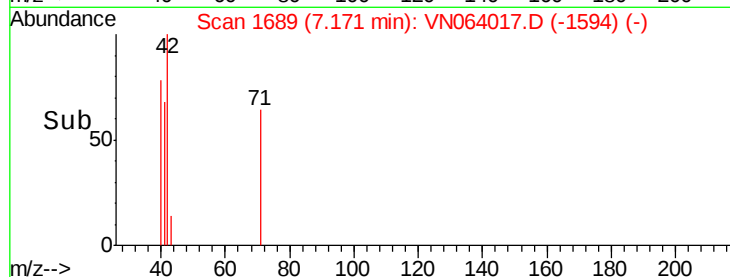
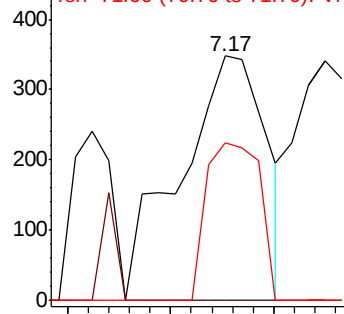
71 40.3 30.6 45.8



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.429 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064017.D

Acq: 9 Oct 2020 3:40

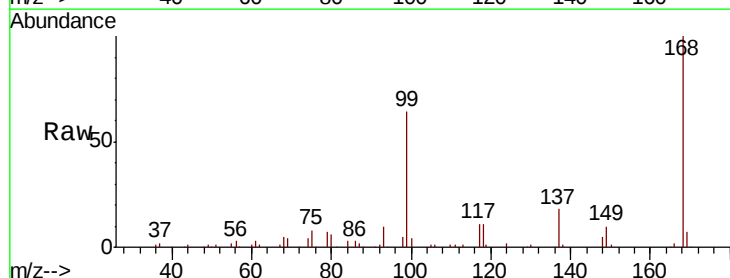
Tgt Ion: 56 Resp: 6713

Ion Ratio Lower Upper

56 100

69 152.0 25.4 38.2#

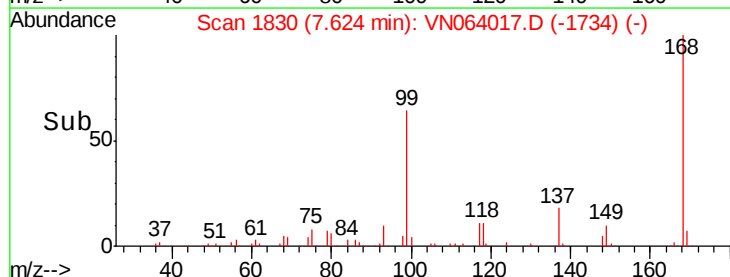
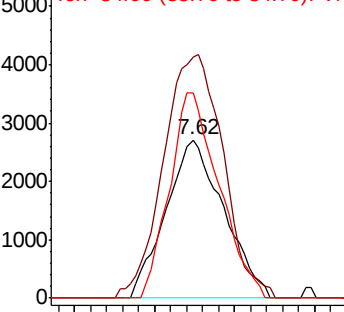
84 129.6 63.3 94.9#

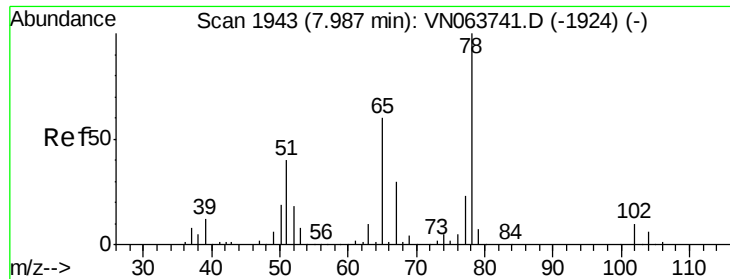


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 51.636 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064017.D

Acq: 9 Oct 2020 3:40

Instrument :

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ClientSampleId :

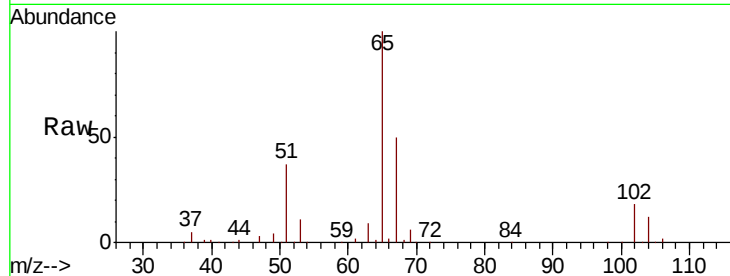
BFB

Tot Ion: 65 Resp: 208972

Ion Ratio Lower Upper

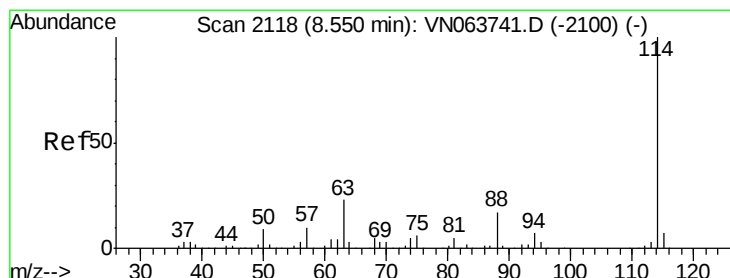
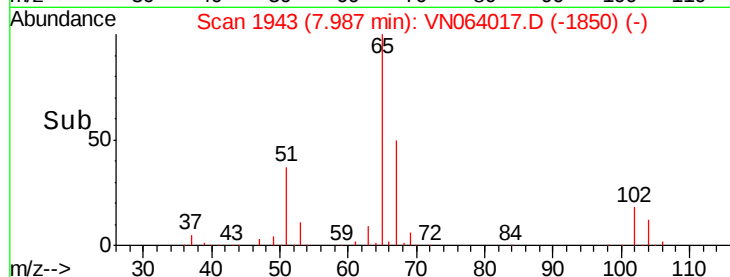
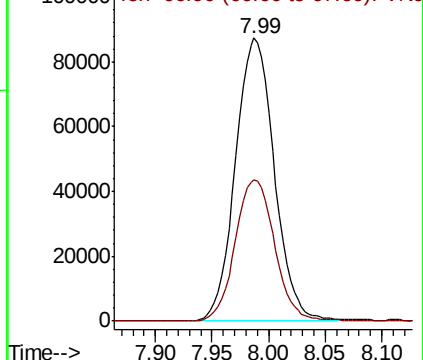
65 100

67 50.9 0.0 99.6



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: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064017.D

Acq: 9 Oct 2020 3:40

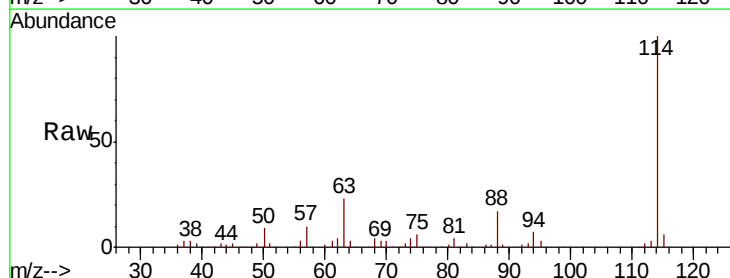
Tgt Ion: 114 Resp: 481084

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.0

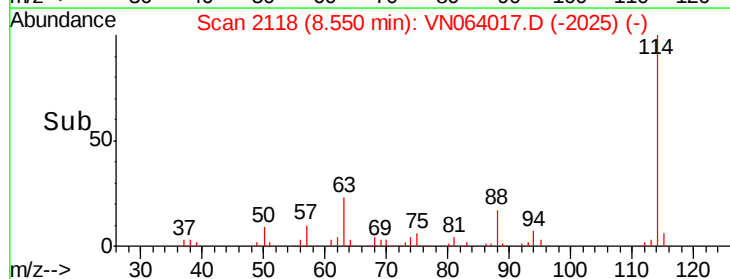
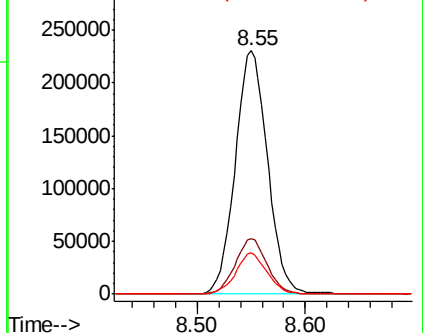
88 16.8 0.0 34.0

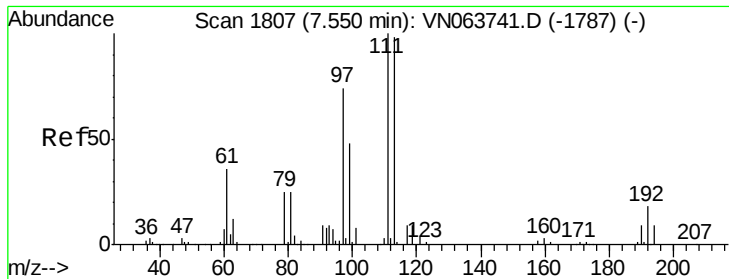


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

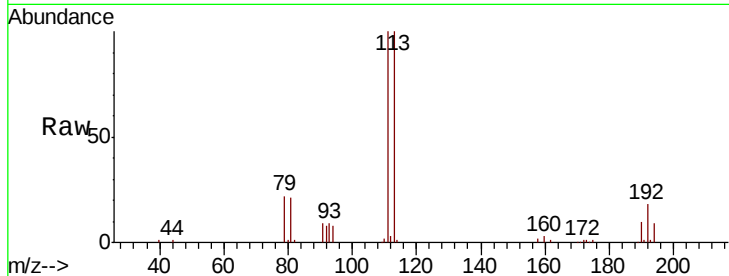




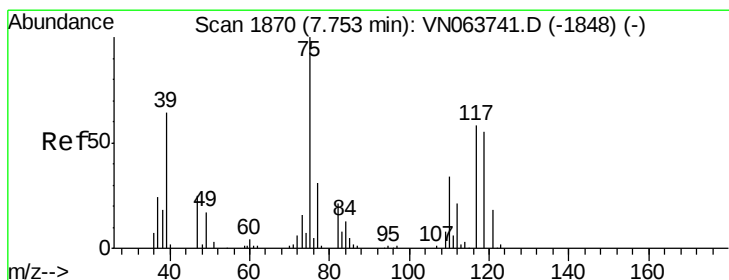
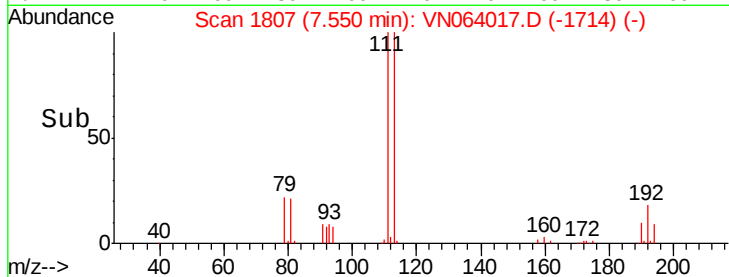
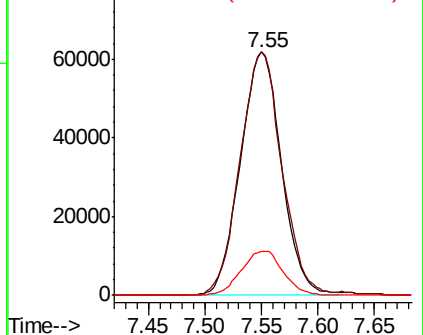
#35
Dibromofluoromethane
Concen: 46.804 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064017.D
Acq: 9 Oct 2020 3:40

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tot Ion:113 Resp: 156239
Ion Ratio Lower Upper
113 100
111 101.4 81.8 122.8
192 18.5 14.2 21.2

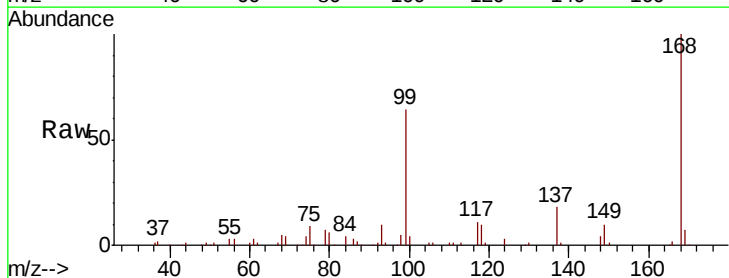


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

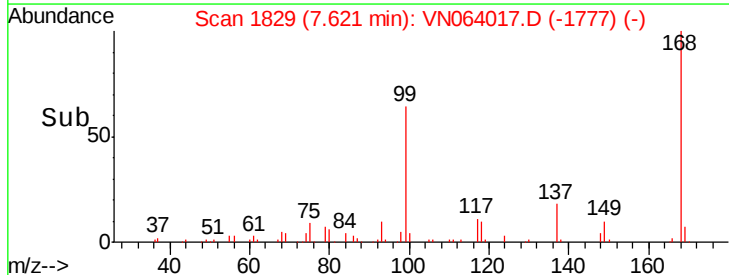
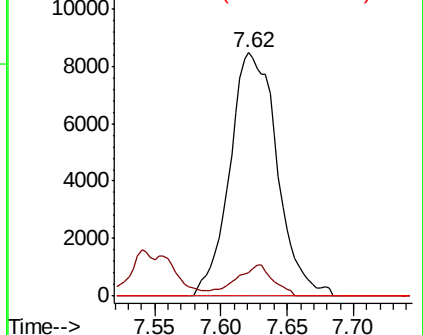


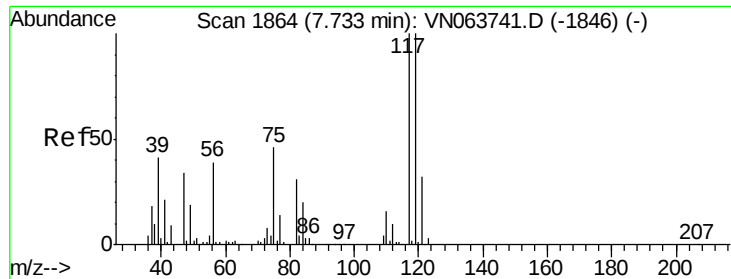
#36
1,1-Dichloropropene
Concen: 4.314 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. -0.13 min
Lab File: VN064017.D
Acq: 9 Oct 2020 3:40

Tgt Ion: 75 Resp: 21025
Ion Ratio Lower Upper
75 100
110 9.9 16.9 50.6#
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.841 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064017.D

Acq: 9 Oct 2020 3:40

Instrument :

MSVOA_N

ClientSampled :

BFB

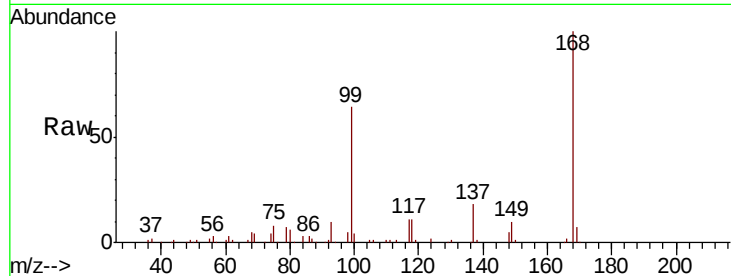
Tot Ion:117 Resp: 26460

Ion Ratio Lower Upper

117 100

119 7.0 80.1 120.1#

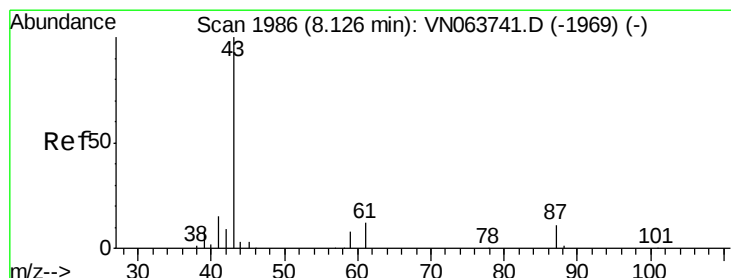
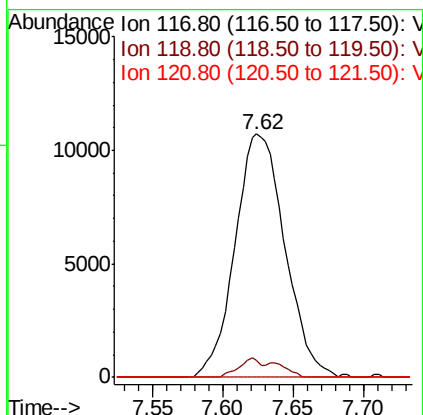
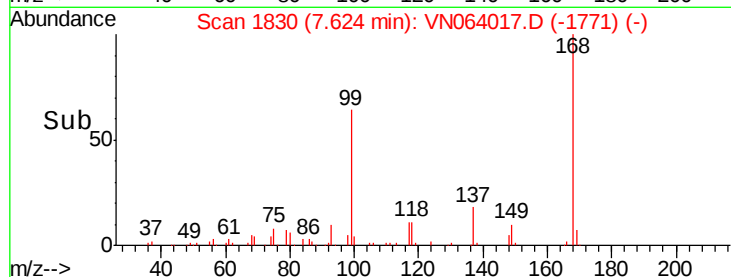
121 0.0 25.7 38.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.973 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064017.D

Acq: 9 Oct 2020 3:40

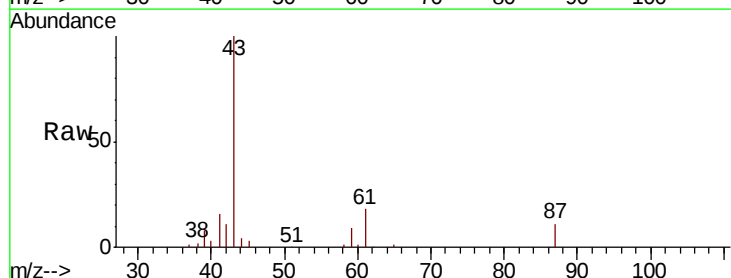
Tgt Ion: 43 Resp: 87640

Ion Ratio Lower Upper

43 100

61 18.1 14.2 21.4

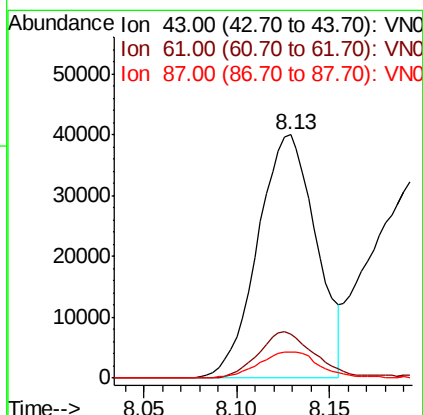
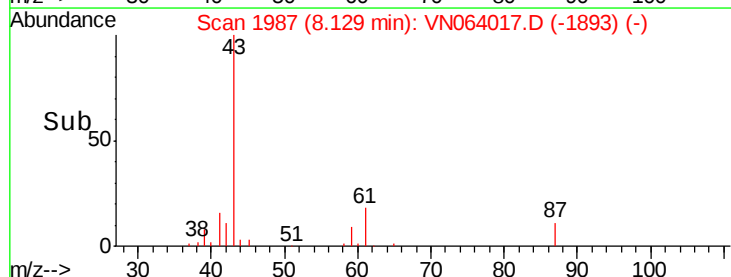
87 11.3 9.0 13.6

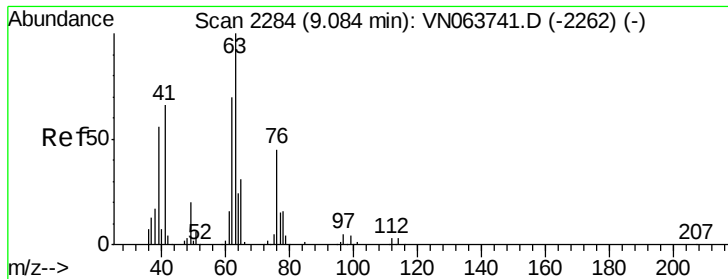


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

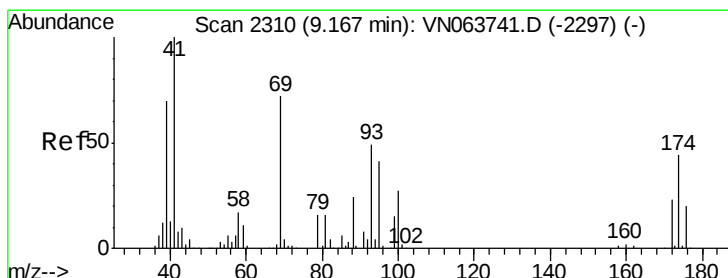
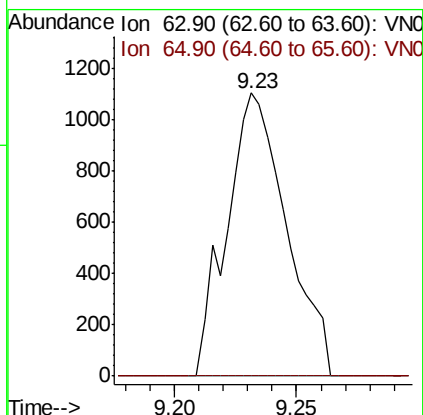
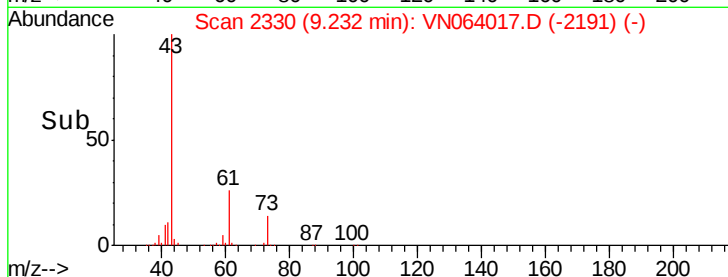
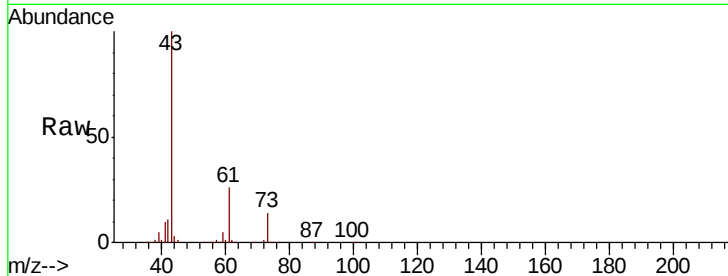




#45
 1,2-Dichloropropane
 Concen: 0.500 ug/l
 RT: 9.23 min Scan# 2330
 Delta R.T. 0.15 min
 Lab File: VN064017.D
 Acq: 9 Oct 2020 3:40

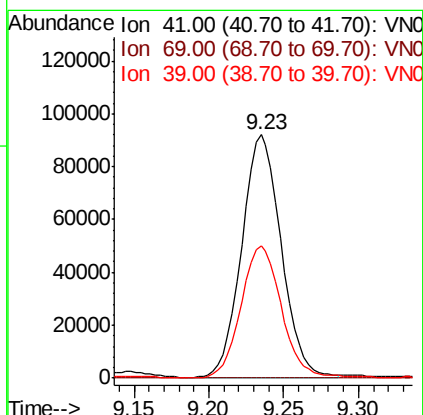
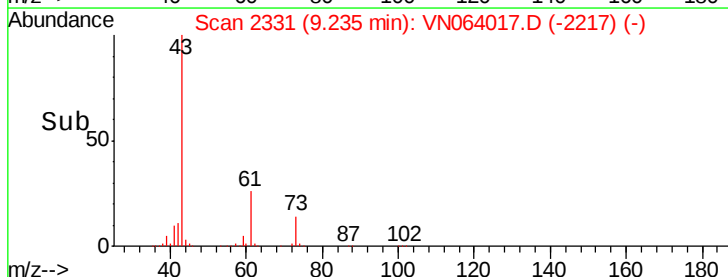
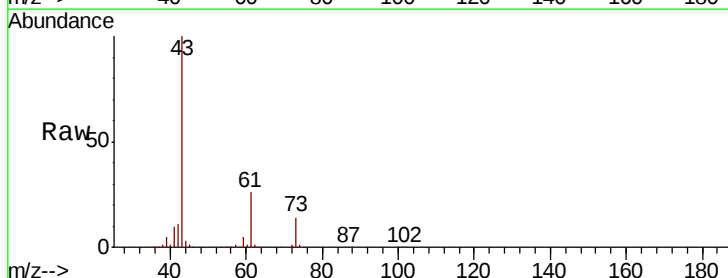
Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

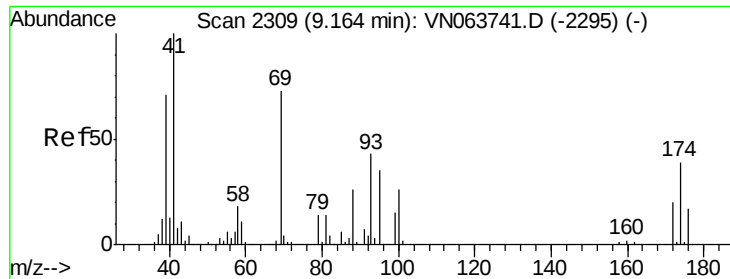
Tot Ion: 63 Resp: 1879
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.7 37.1#



#48
 Methyl methacrylate
 Concen: 42.672 ug/l
 RT: 9.23 min Scan# 2331
 Delta R.T. 0.07 min
 Lab File: VN064017.D
 Acq: 9 Oct 2020 3:40

Tgt Ion: 41 Resp: 168388
 Ion Ratio Lower Upper
 41 100
 69 0.1 60.9 91.3#
 39 55.7 57.5 86.3#





#49

1,4-Dioxane

Concen: 3.513 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.06 min

Lab File: VN064017.D

Acq: 9 Oct 2020 3:40

Instrument :

MSVOA_N

ClientSampleId :

BFB

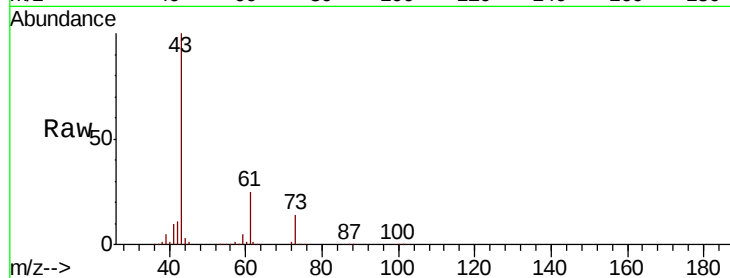
Tot Ion: 88 Resp: 197

Ion Ratio Lower Upper

88 100

43 874888.3 33.1 49.7#

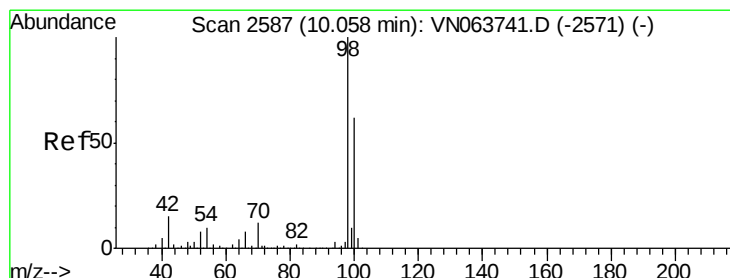
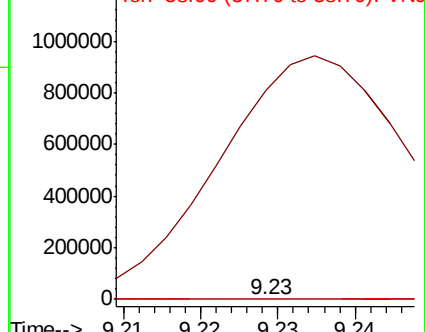
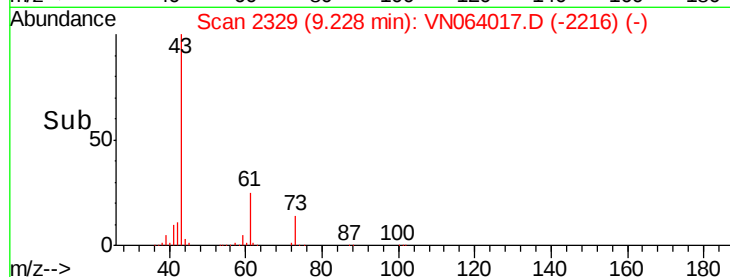
58 3988.3 58.9 88.3#



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: 48.050 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064017.D

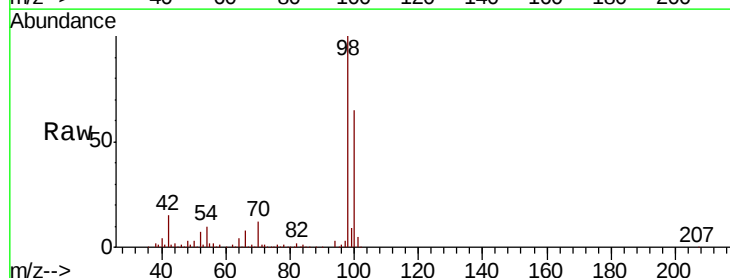
Acq: 9 Oct 2020 3:40

Tgt Ion: 98 Resp: 608052

Ion Ratio Lower Upper

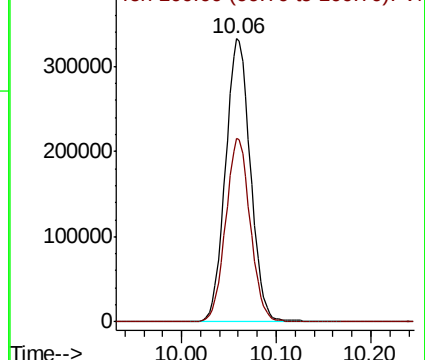
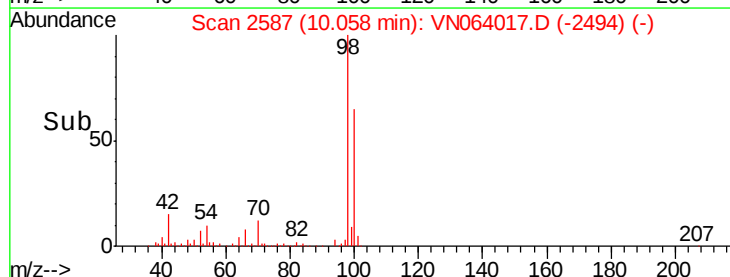
98 100

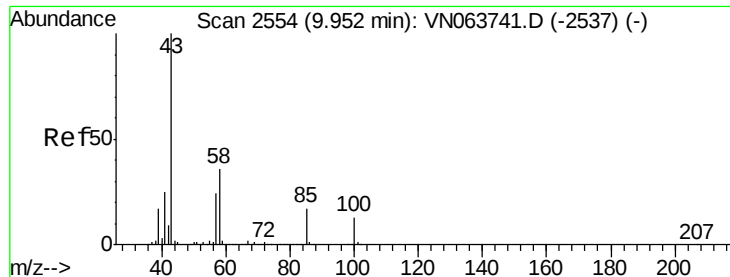
100 63.9 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.441 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064017.D

Acq: 9 Oct 2020 3:40

Instrument :

MSVOA_N

ClientSampled :

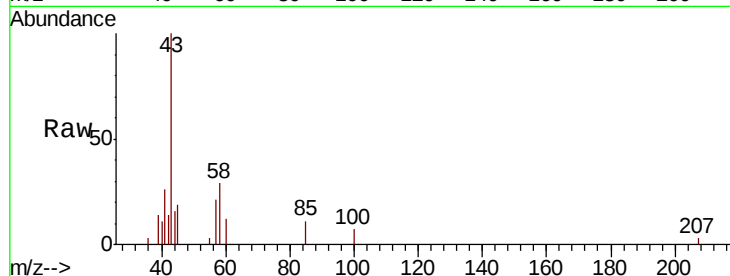
BFB

Tot Ion: 43 Resp: 6754

Ion Ratio Lower Upper

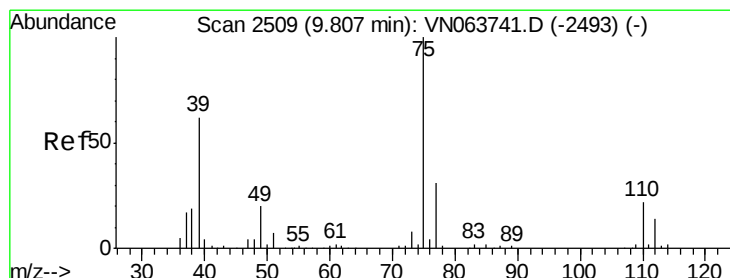
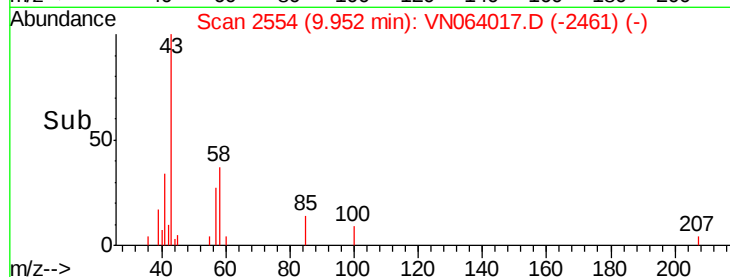
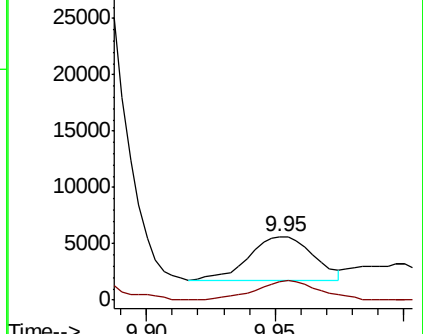
43 100

58 44.2 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.986 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064017.D

Acq: 9 Oct 2020 3:40

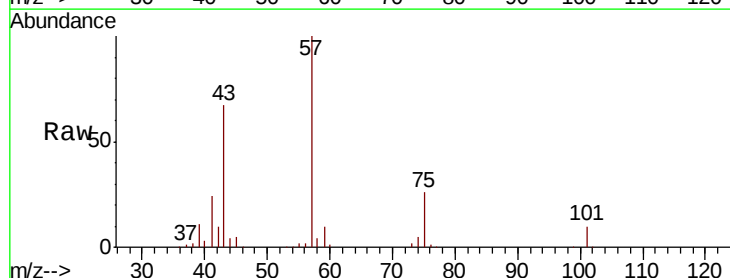
Tgt Ion: 75 Resp: 35872

Ion Ratio Lower Upper

75 100

77 1.4 24.6 36.8#

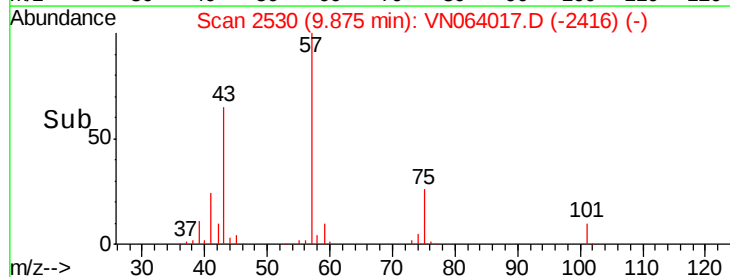
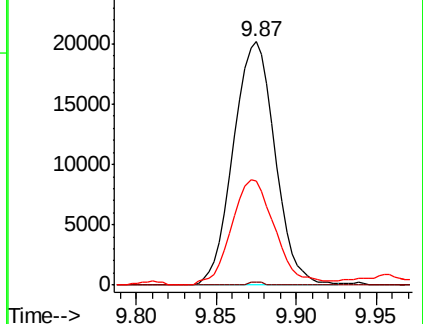
39 42.6 49.7 74.5#

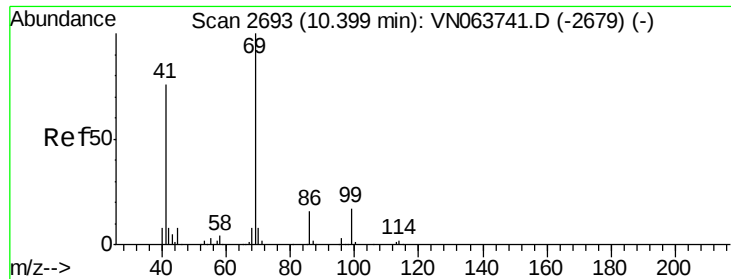


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.498 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN064017.D

Acq: 9 Oct 2020 3:40

Instrument :

MSVOA_N

ClientSampleId :

BFB

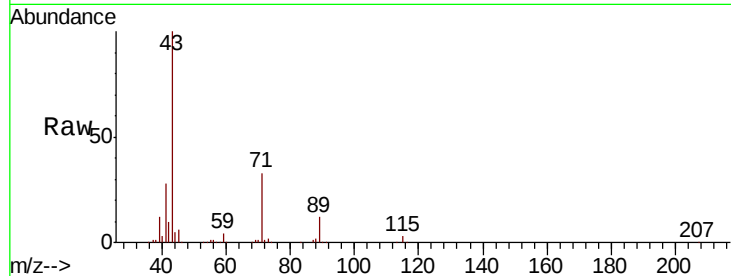
Tot Ion: 69 Resp: 2436

Ion Ratio Lower Upper

69 100

41 3883.4 61.1 91.7#

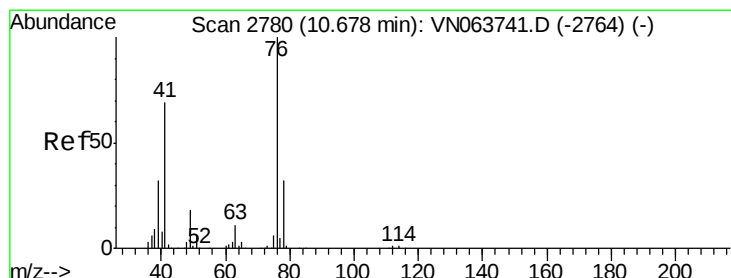
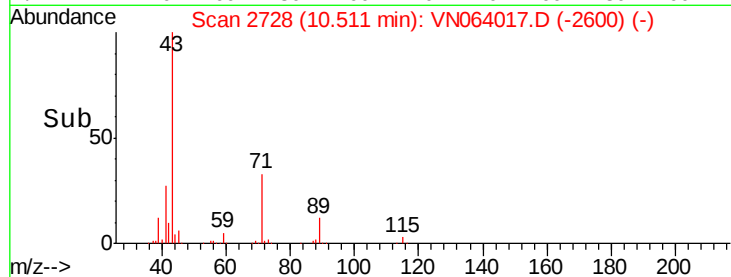
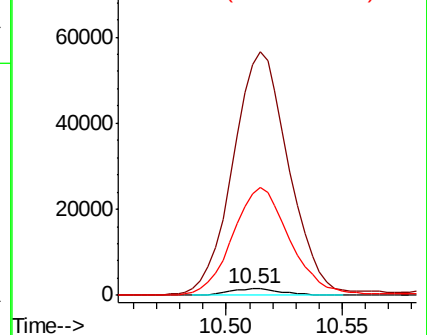
39 1780.7 42.2 63.4#



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



#57

1,3-Dichloropropane

Concen: 1.169 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064017.D

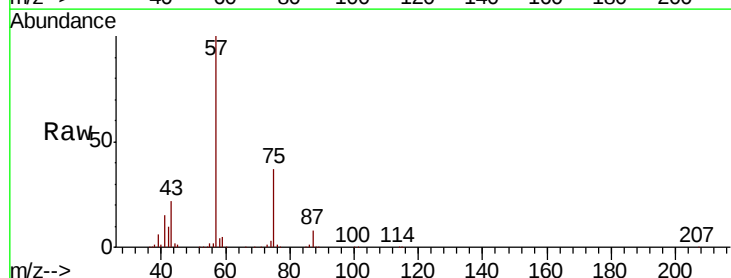
Acq: 9 Oct 2020 3:40

Tgt Ion: 76 Resp: 6832

Ion Ratio Lower Upper

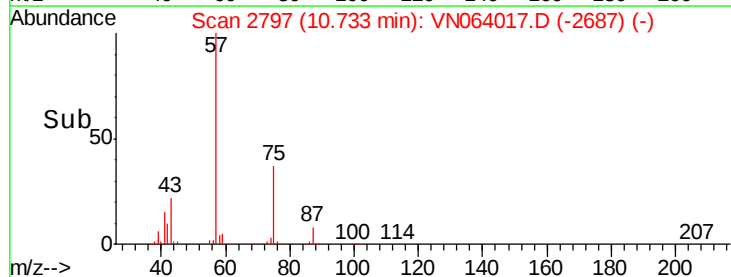
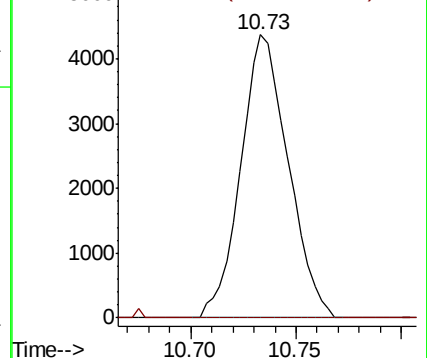
76 100

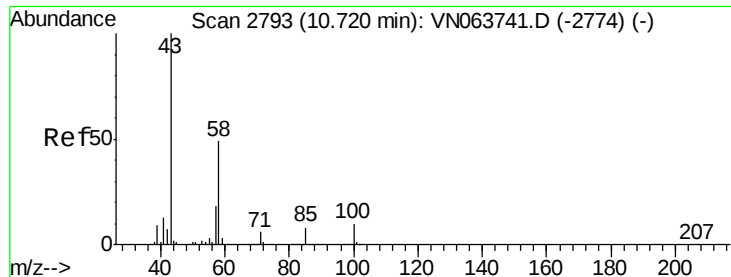
78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

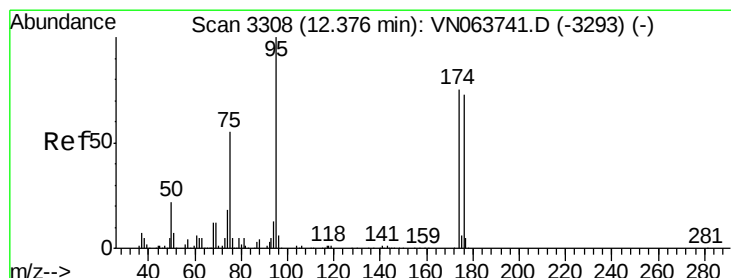
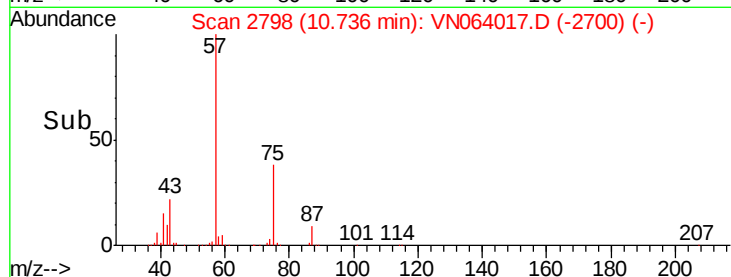
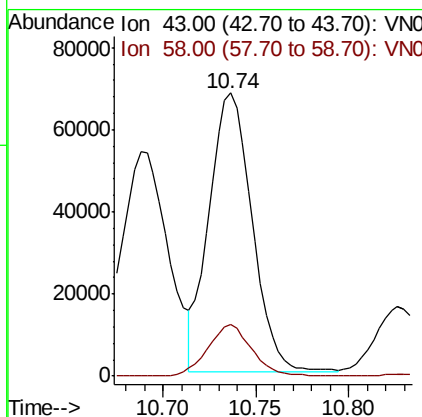
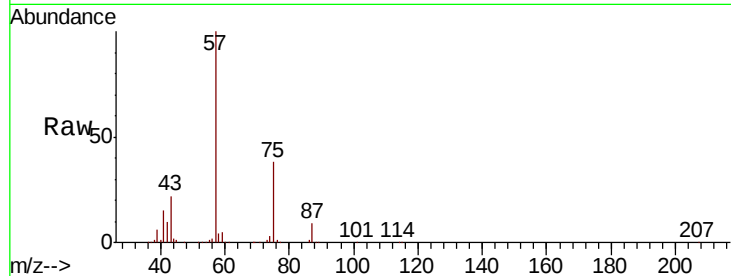




#59
2-Hexanone
Concen: 31.439 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN064017.D
Acq: 9 Oct 2020 3:40

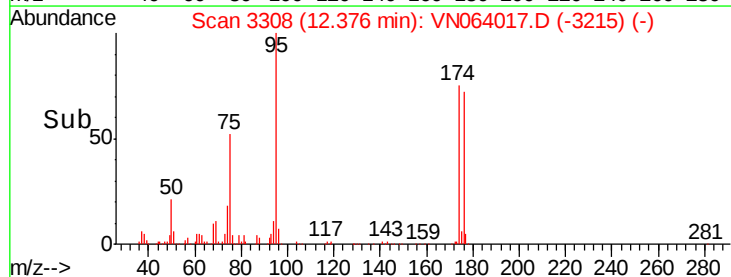
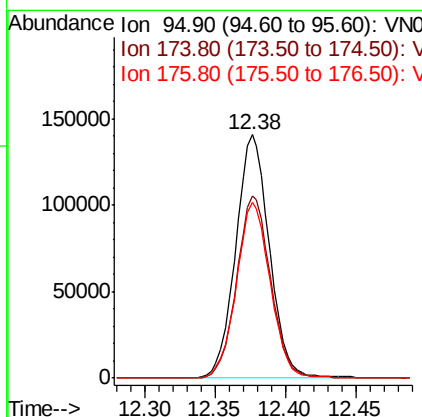
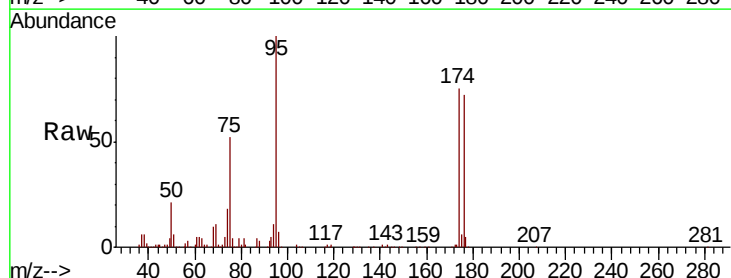
Instrument :
MSVOA_N
ClientSampled :
BFB

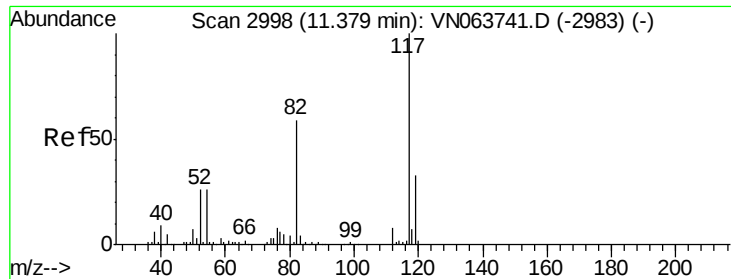
Tot Ion: 43 Resp: 109468
Ion Ratio Lower Upper
43 100
58 19.0 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 49.493 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064017.D
Acq: 9 Oct 2020 3:40

Tgt Ion: 95 Resp: 235435
Ion Ratio Lower Upper
95 100
174 75.4 0.0 150.6
176 72.7 0.0 145.4

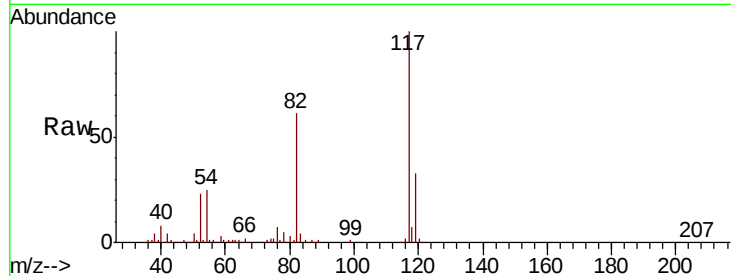




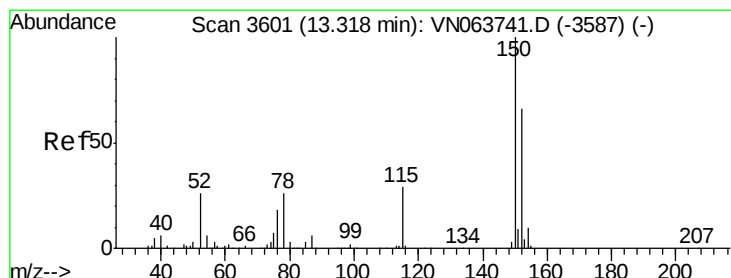
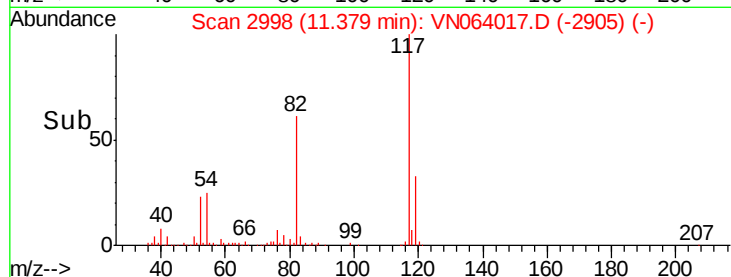
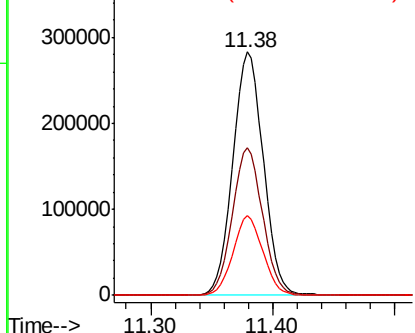
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064017.D
Acq: 9 Oct 2020 3:40

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tot Ion:117 Resp: 492791
Ion Ratio Lower Upper
117 100
82 60.7 47.4 71.2
119 32.6 26.4 39.6

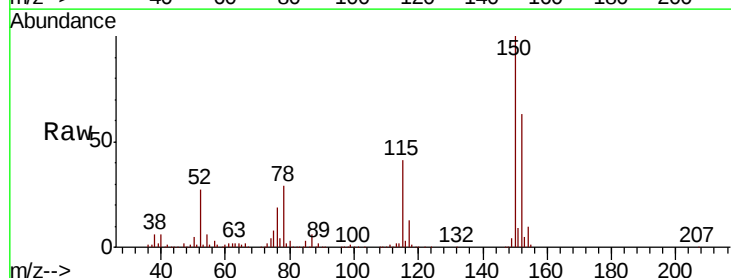


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

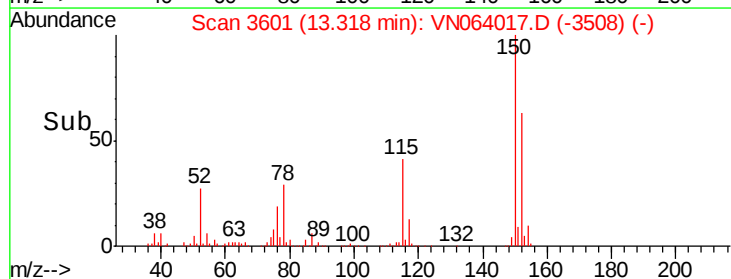
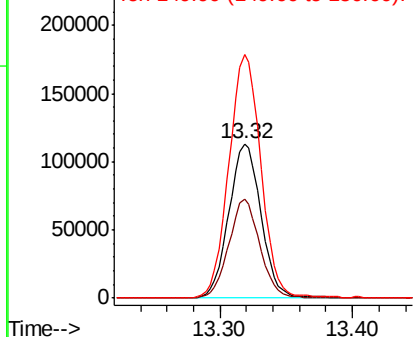


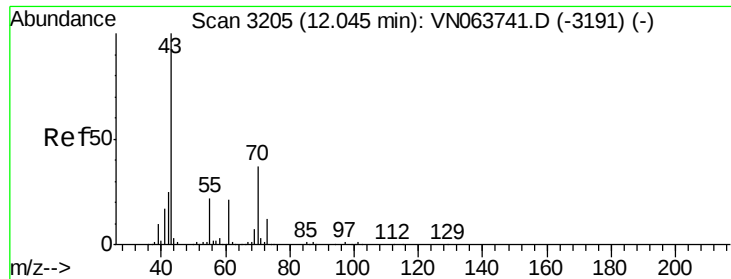
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064017.D
Acq: 9 Oct 2020 3:40

Tgt Ion:152 Resp: 190625
Ion Ratio Lower Upper
152 100
115 62.2 31.3 93.8
150 157.1 0.0 341.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

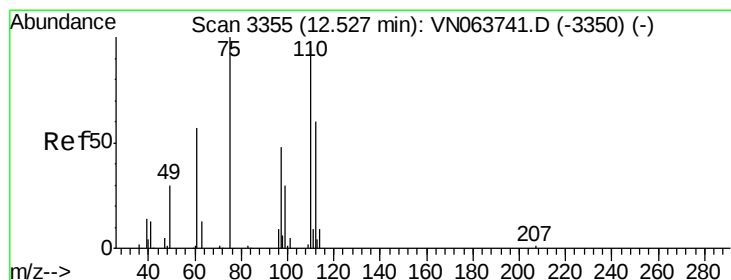
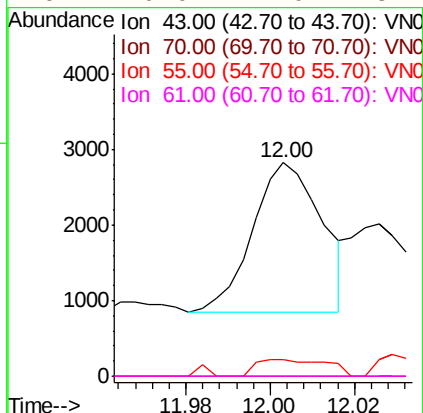
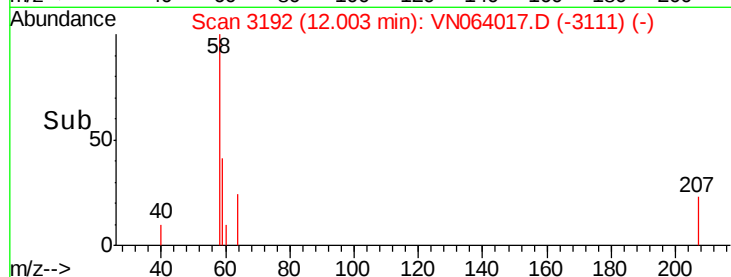
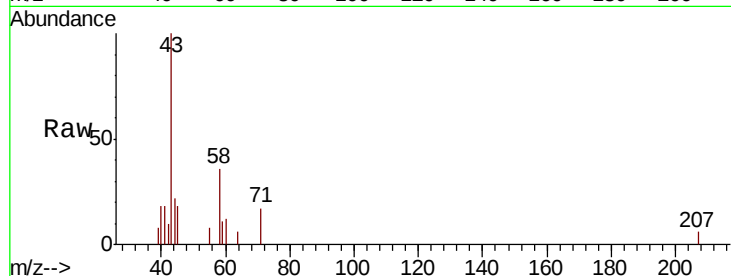




#74
N-amvl acetate
Concen: 2.547 ug/l
RT: 12.00 min Scan# 3192
Delta R.T. -0.04 min
Lab File: VN064017.D
Acq: 9 Oct 2020 3:40

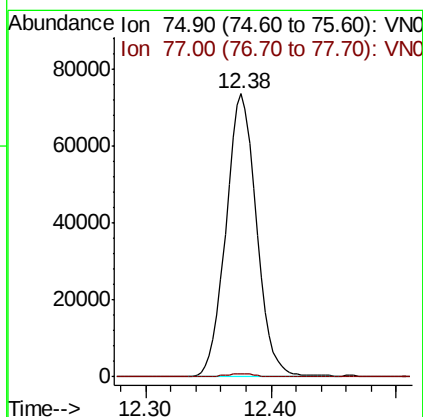
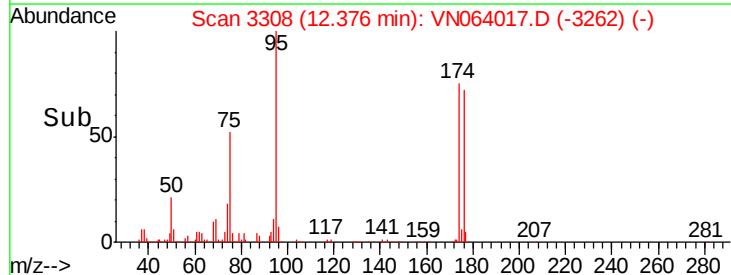
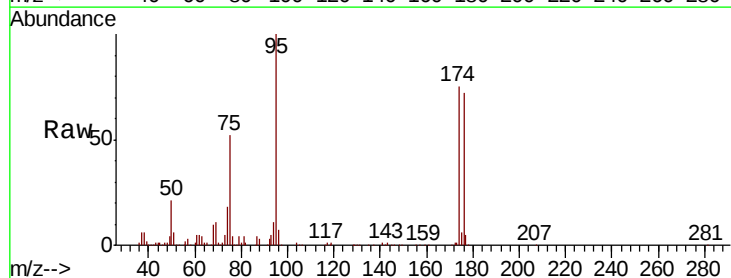
Instrument :
MSVOA_N
ClientSampleId :
BFB

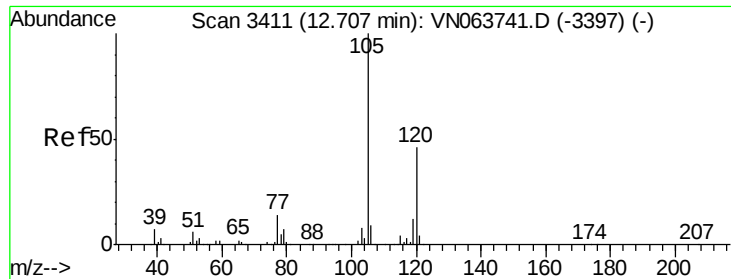
Tot Ion: 43 Resp: 2239
Ion Ratio Lower Upper
43 100
70 0.0 29.8 44.8#
55 11.5 17.9 26.9#
61 0.0 17.0 25.4#



#76
1,2,3-Trichloropropane
Concen: 29.625 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN064017.D
Acq: 9 Oct 2020 3:40

Tgt Ion: 75 Resp: 124487
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#

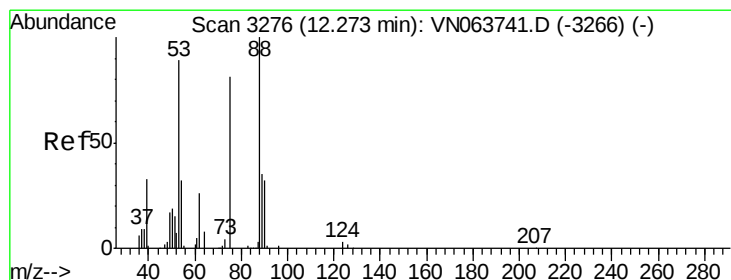
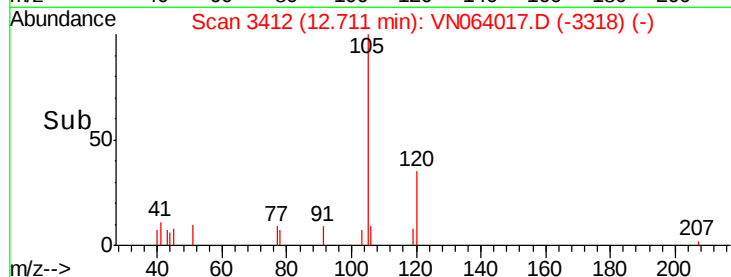
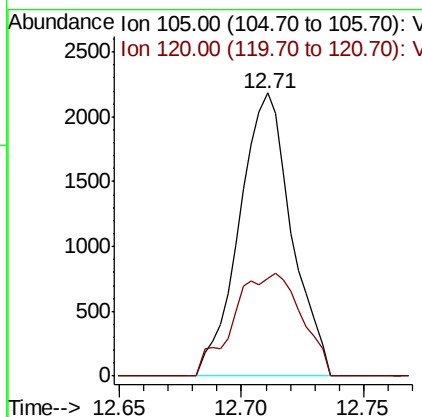
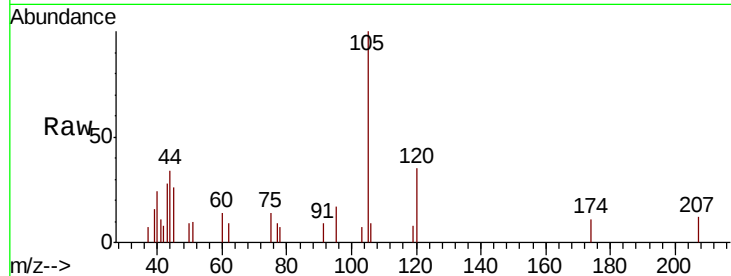




#80
 1,3,5-Trimethylbenzene
 Concen: 0.278 ug/l
 RT: 12.71 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: VN064017.D
 Acq: 9 Oct 2020 3:40

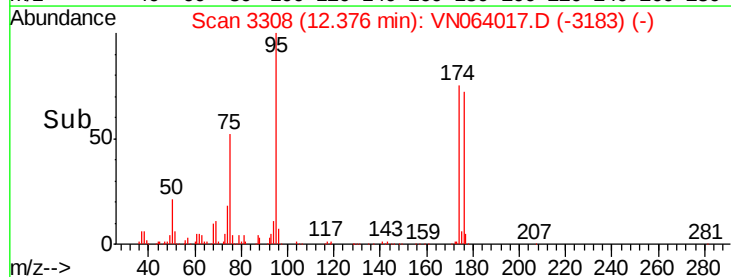
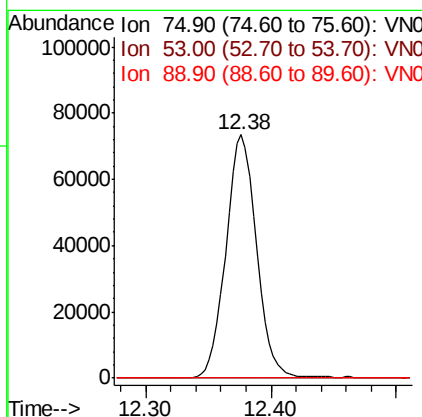
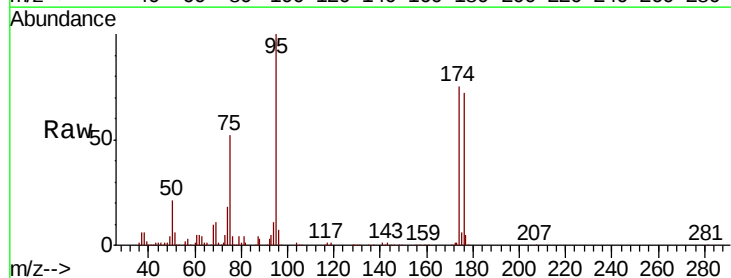
Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

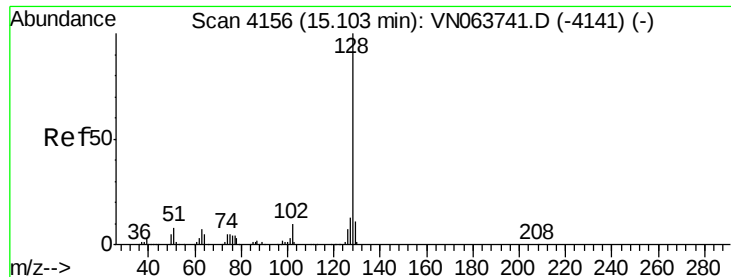
Tot Ion:105 Resp: 3241
 Ion Ratio Lower Upper
 105 100
 120 47.2 23.3 69.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 85.324 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064017.D
 Acq: 9 Oct 2020 3:40

Tgt Ion: 75 Resp: 124487
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.2 132.2#
 89 0.0 36.0 54.0#

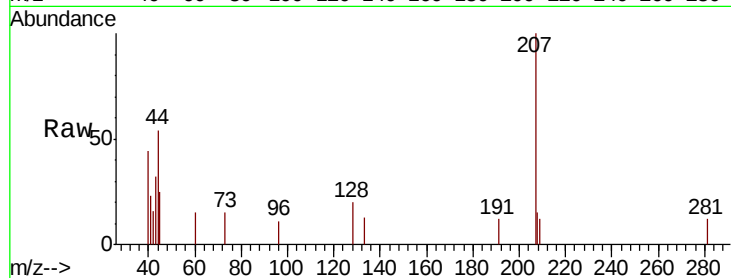




#95
Naphthalene
Concen: 1.943 ug/l
RT: 15.11 min Scan# 4159
Delta R.T. 0.01 min
Lab File: VN064017.D
Acq: 9 Oct 2020 3:40

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	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

