

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100920\
 Data File : VN064060.D
 Acq On : 10 Oct 2020 1:37
 Operator : JC/MD
 Sample : PB132229ZHE#14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132229ZHE#14

Quant Time: Oct 10 02:27:25 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	197673	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	395189	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	404838	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	148045	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	178087	54.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.06%	
35) Dibromofluoromethane	7.55	113	128356	46.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.62%	
50) Toluene-d8	10.06	98	501169	48.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.42%	
62) 4-Bromofluorobenzene	12.38	95	188777	48.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.62%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	4.73	59	158	0.438	ug/l #	71
16) Acetone	3.78	43	28382	28.233	ug/l	100
17) Carbon Disulfide	4.02	76	612	0.813	ug/l #	76
18) Methyl Acetate	4.29	43	3259	1.249	ug/l #	62
20) Methylene Chloride	4.50	84	27727	12.116	ug/l	90
25) 2-Butanone	6.78	43	836	0.587	ug/l	90
29) Tetrahydrofuran	7.16	42	394	0.412	ug/l #	56
31) Cyclohexane	7.62	56	5080	1.340	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	17819	4.451	ug/l #	45
38) Carbon Tetrachloride	7.63	117	20910	4.658	ug/l #	16
41) Methacrylonitrile	7.17	41	363	0.205	ug/l #	17
43) Isopropyl Acetate	8.13	43	74163	11.304	ug/l	98
45) 1,2-Dichloropropane	9.23	63	1582	0.512	ug/l #	44
48) Methyl methacrylate	9.15	41	4482	1.383	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	6946	1.804	ug/l	88
54) cis-1,3-Dichloropropene	9.87	75	28182	5.725	ug/l #	68
56) Ethyl methacrylate	10.51	69	2460	0.612	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5421	1.130	ug/l #	43
59) 2-Hexanone	10.74	43	90388	31.601	ug/l #	55
74) N-amyl acetate	12.03	43	1080	2.422	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	101851	31.209	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4413	0.487	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.38	75	101851	89.887	ug/l #	6
95) Naphthalene	15.11	128	29	1.928	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064060.D

Acq: 10 Oct 2020 1:37

Instrument :

MSVOA_N

ClientSampleId :

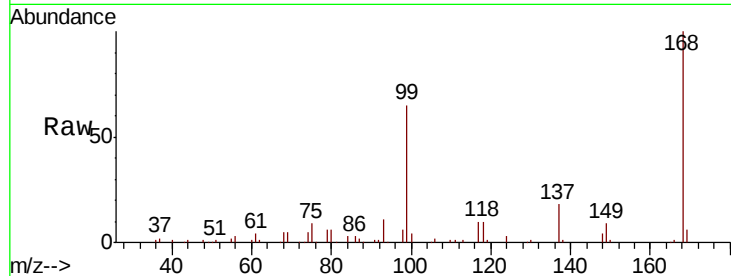
PB132229ZHE#14

Tot Ion:168 Resp: 197673

Ion Ratio Lower Upper

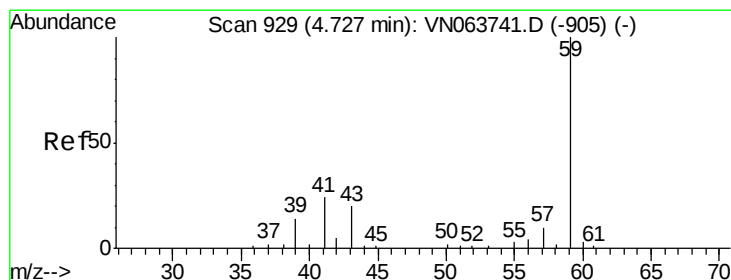
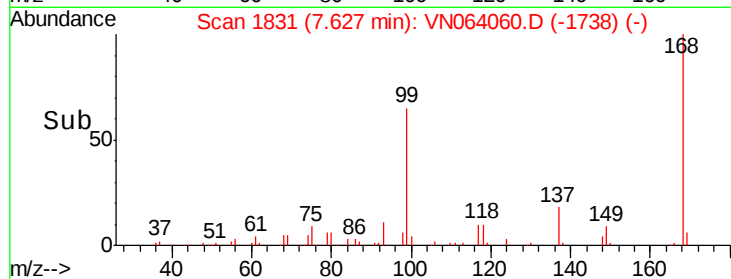
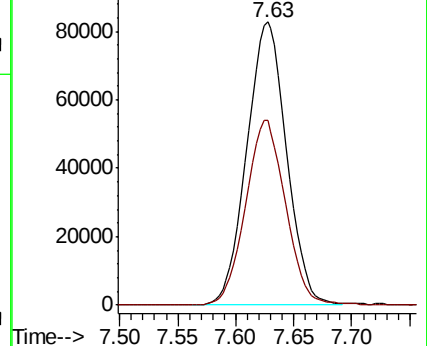
168 100

99 65.1 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.438 ug/l

RT: 4.73 min Scan# 930

Delta R.T. 0.00 min

Lab File: VN064060.D

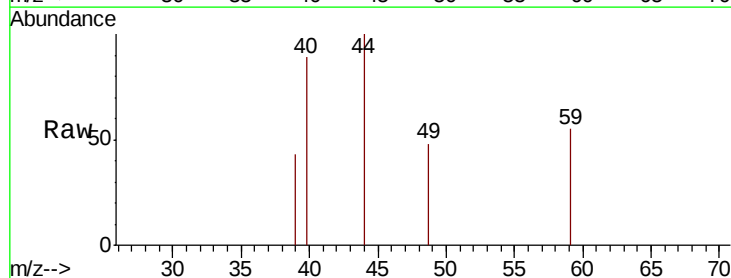
Acq: 10 Oct 2020 1:37

Tgt Ion: 59 Resp: 158

Ion Ratio Lower Upper

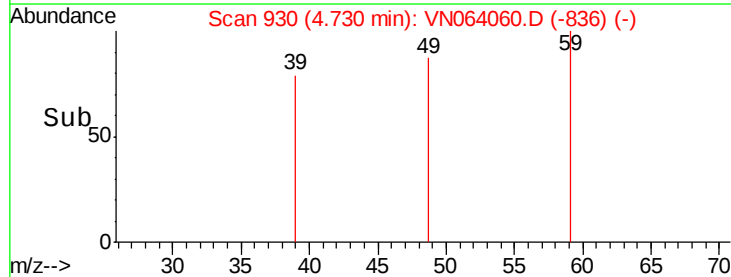
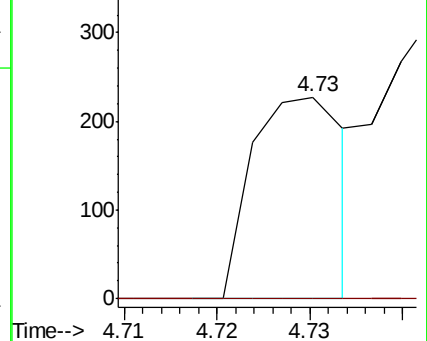
59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 28.233 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064060.D

Acq: 10 Oct 2020 1:37

Instrument :

MSVOA_N

ClientSampleId :

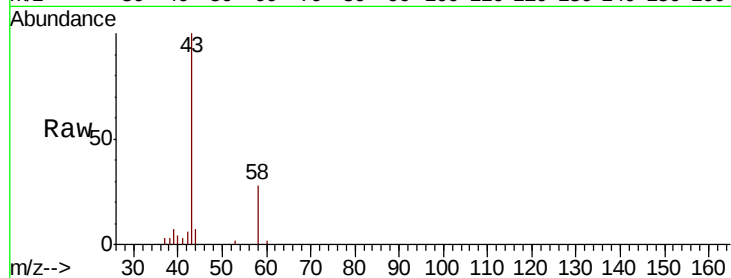
PB132229ZHE#14

Tot Ion: 43 Resp: 28382

Ion Ratio Lower Upper

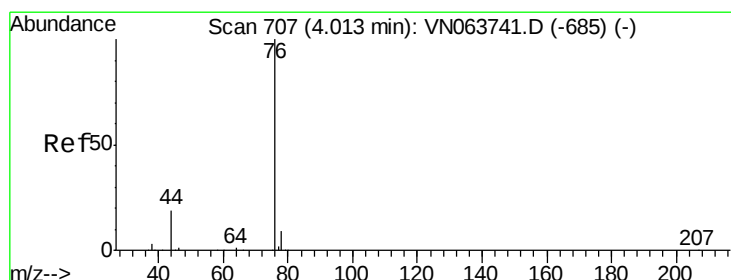
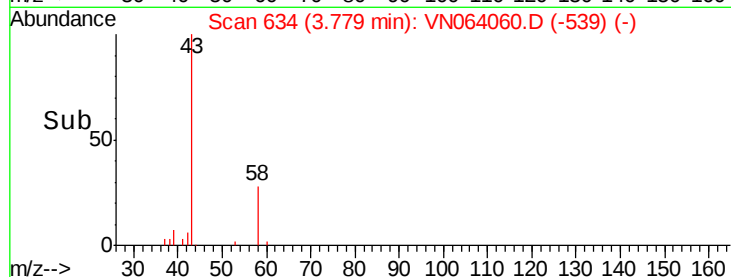
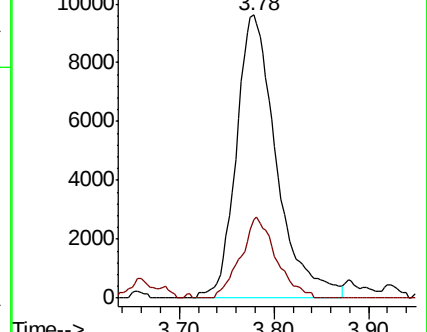
43 100

58 27.9 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN063741.D (-599) (-)



#17

Carbon Disulfide

Concen: 0.813 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN064060.D

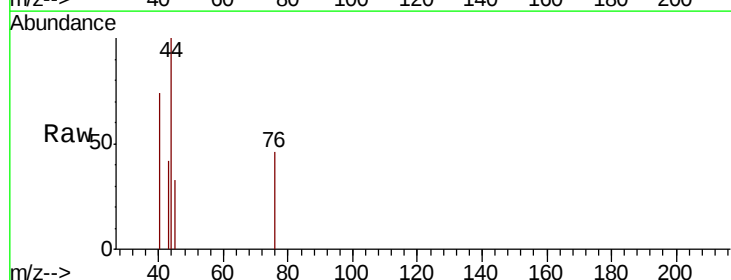
Acq: 10 Oct 2020 1:37

Tgt Ion: 76 Resp: 612

Ion Ratio Lower Upper

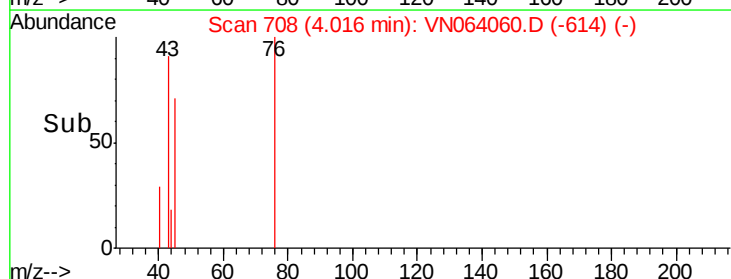
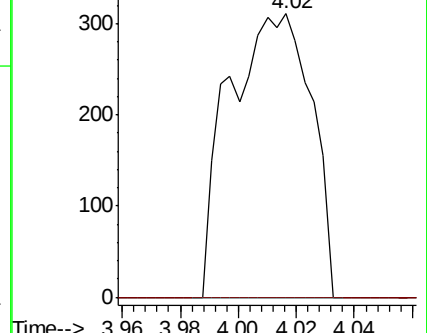
76 100

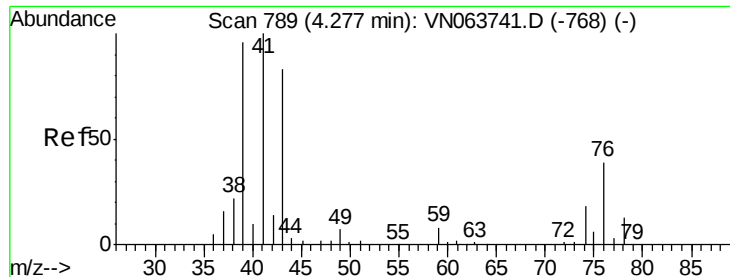
78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN063741.D (-685) (-)

Ion 77.90 (77.60 to 78.60): VN063741.D (-685) (-)

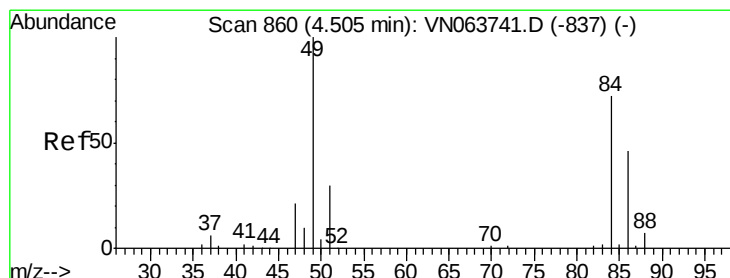
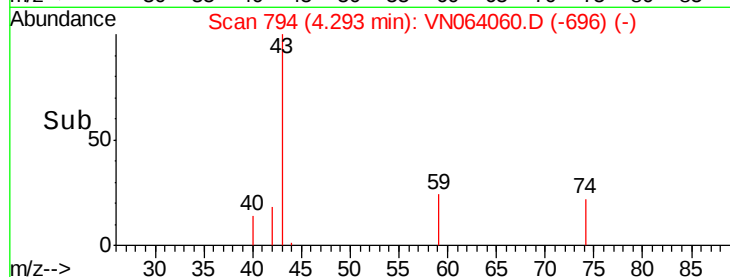
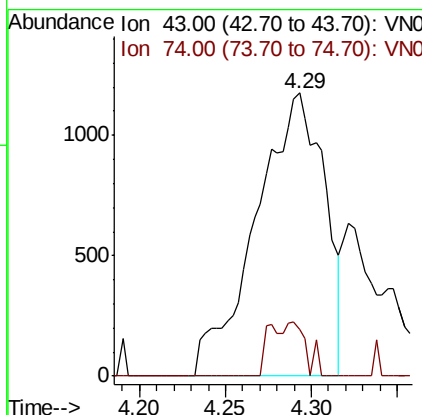
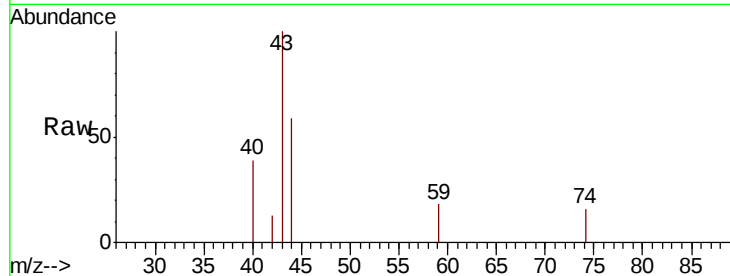




#18
Methyl Acetate
Concen: 1.249 ug/l
RT: 4.29 min Scan# 794
Delta R.T. 0.02 min
Lab File: VN064060.D
Acq: 10 Oct 2020 1:37

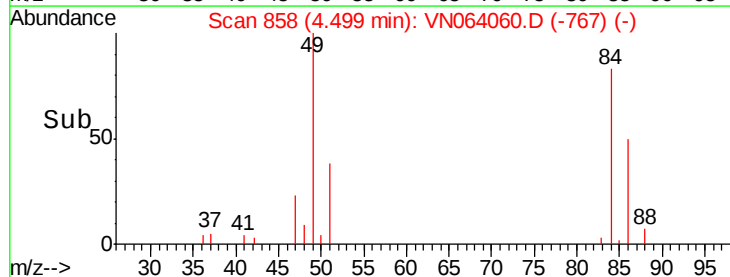
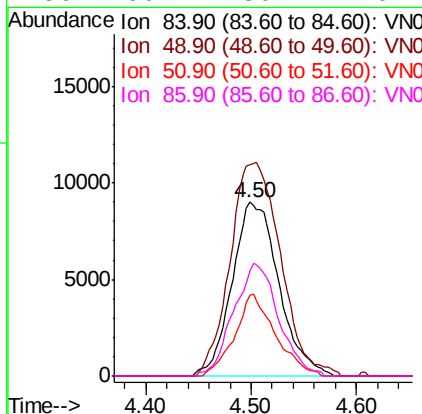
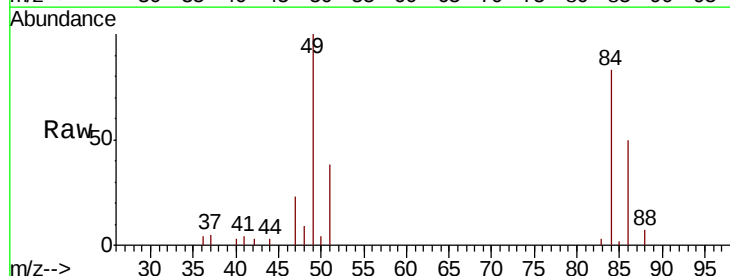
Instrument :
MSVOA_N
ClientSampleId :
PB132229ZHE#14

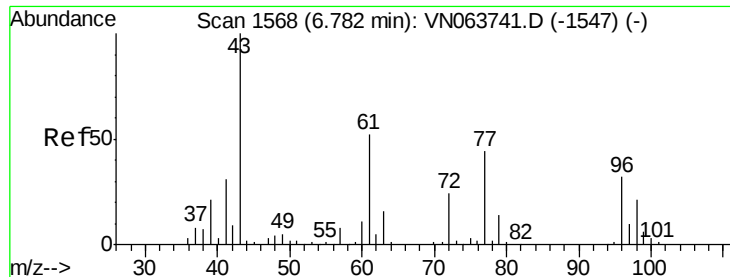
Tot Ion: 43 Resp: 3259
Ion Ratio Lower Upper
43 100
74 3.6 17.4 26.2#



#20
Methylene Chloride
Concen: 12.116 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.01 min
Lab File: VN064060.D
Acq: 10 Oct 2020 1:37

Tgt Ion: 84 Resp: 27727
Ion Ratio Lower Upper
84 100
49 121.2 110.4 165.6
51 46.5 33.3 49.9
86 60.1 50.7 76.1





#25

2-Butanone

Concen: 0.587 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN064060.D

Acq: 10 Oct 2020 1:37

Instrument :

MSVOA_N

ClientSampleId :

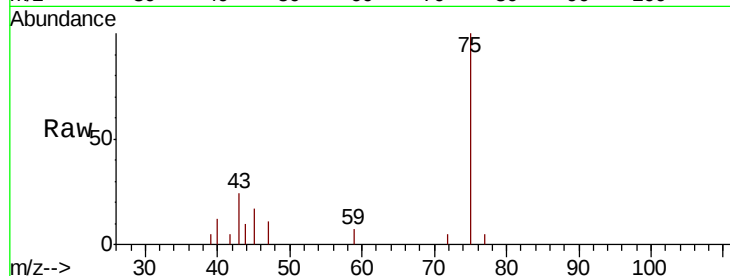
PB132229ZHE#14

Tot Ion: 43 Resp: 836

Ion Ratio Lower Upper

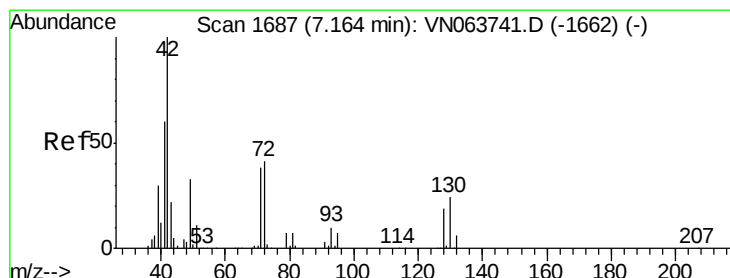
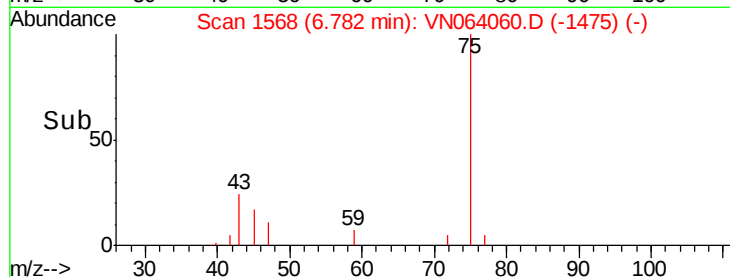
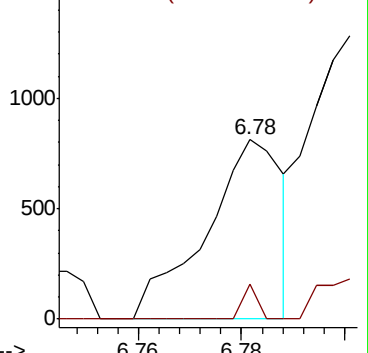
43 100

72 19.3 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: 0.412 ug/l

RT: 7.16 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VN064060.D

Acq: 10 Oct 2020 1:37

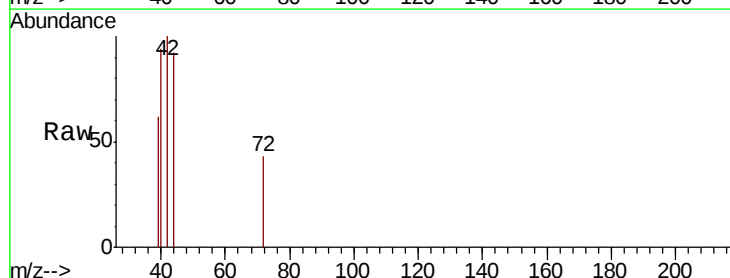
Tgt Ion: 42 Resp: 394

Ion Ratio Lower Upper

42 100

72 17.0 32.8 49.2#

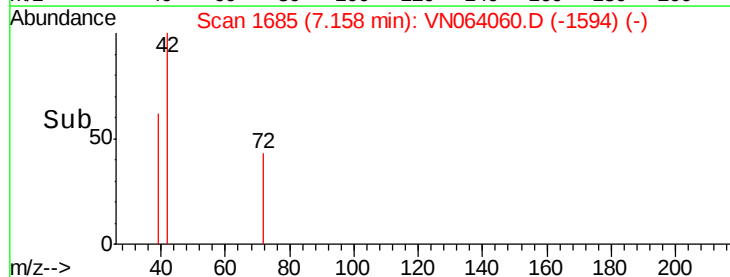
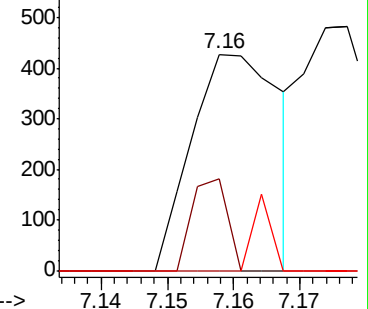
71 7.4 30.6 45.8#

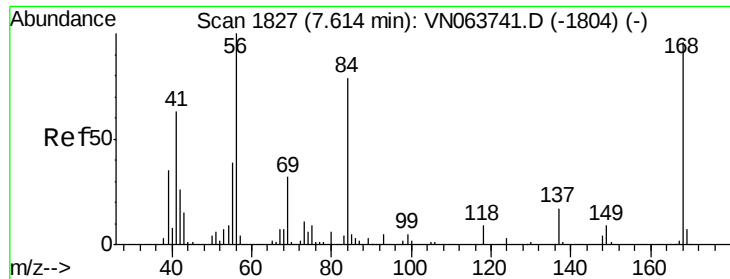


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

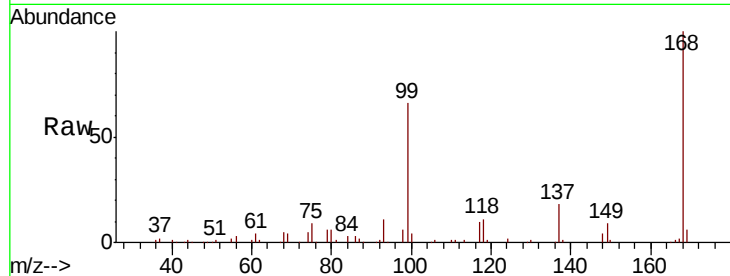




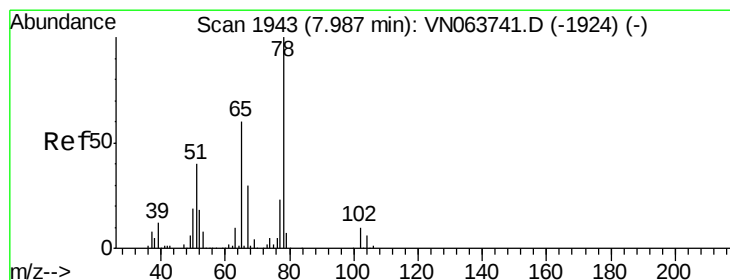
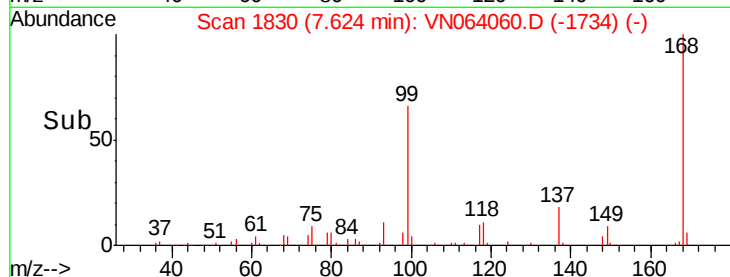
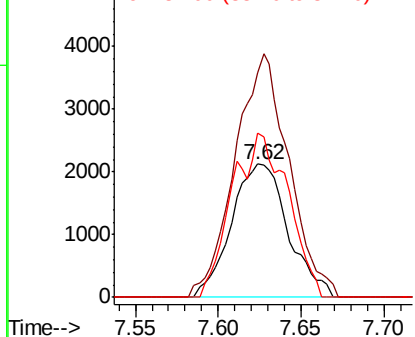
#31
Cyclohexane
Concen: 1.340 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064060.D
Acq: 10 Oct 2020 1:37

Instrument :
MSVOA_N
ClientSampleId :
PB132229ZHE#14

Tot Ion: 56 Resp: 5080
Ion Ratio Lower Upper
56 100
69 168.4 25.4 38.2#
84 122.7 63.3 94.9#

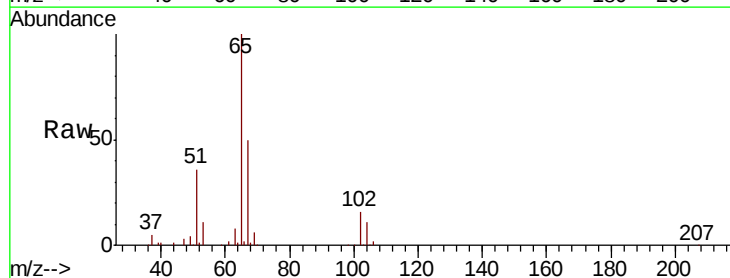


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

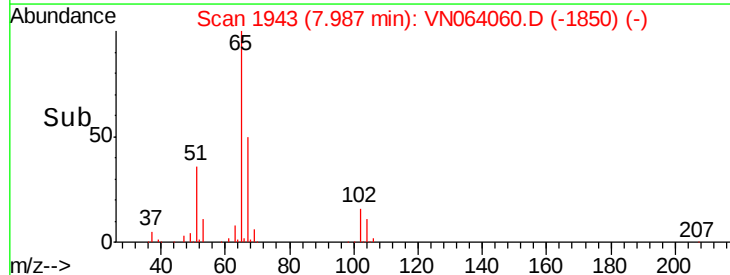
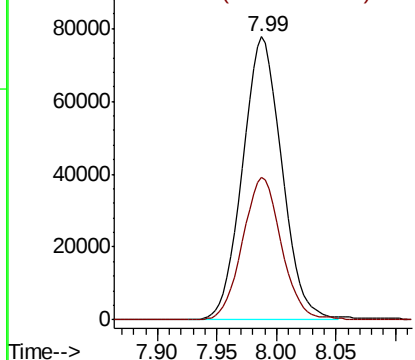


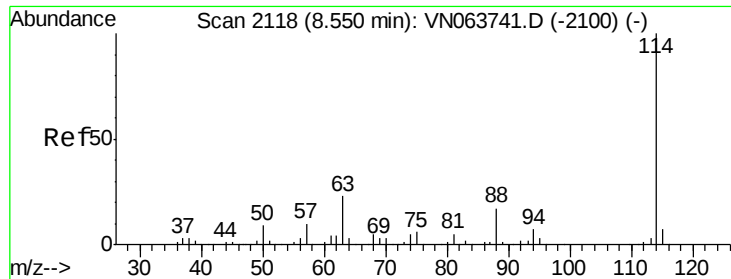
#33
1,2-Dichloroethane-d4
Concen: 54.533 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064060.D
Acq: 10 Oct 2020 1:37

Tgt Ion: 65 Resp: 178087
Ion Ratio Lower Upper
65 100
67 50.0 0.0 99.6



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

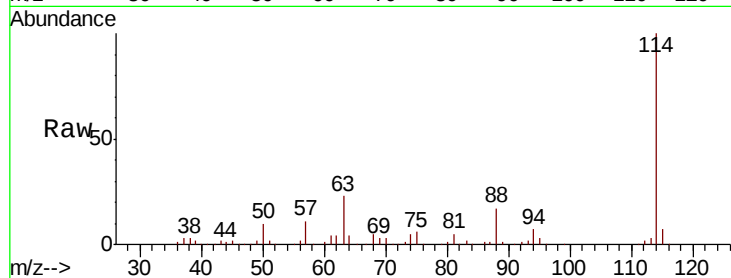




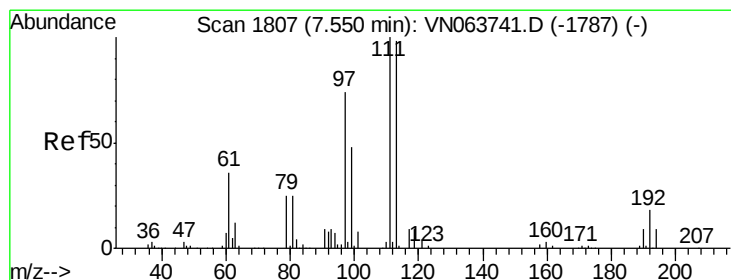
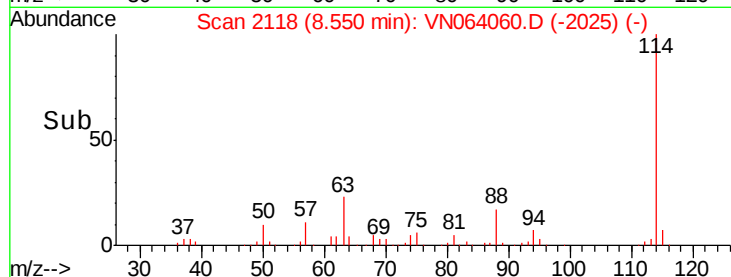
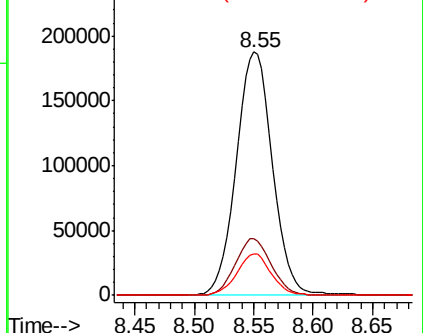
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064060.D
 Acq: 10 Oct 2020 1:37

Instrument :
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Tot Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	45.0
88	17.2	0.0	34.0

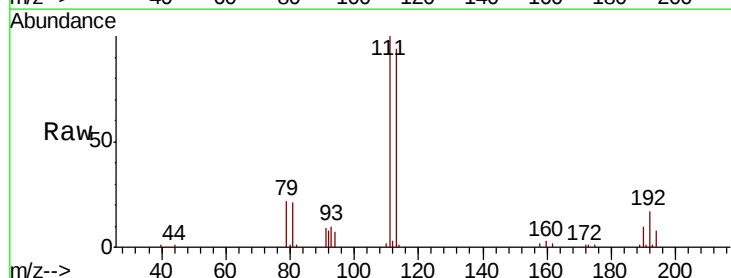


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

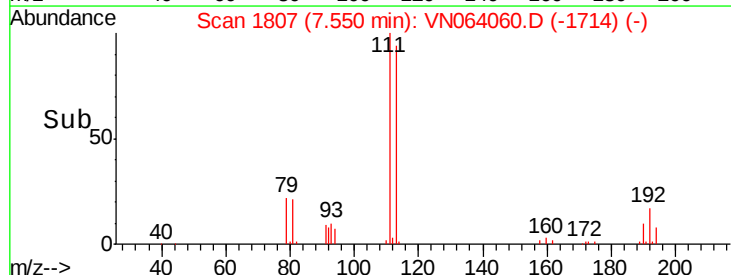
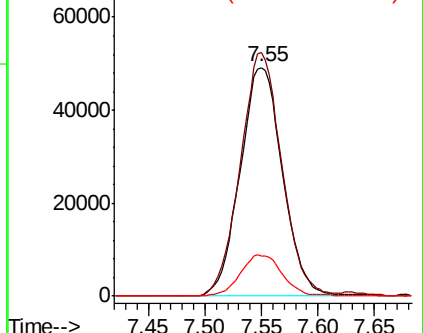


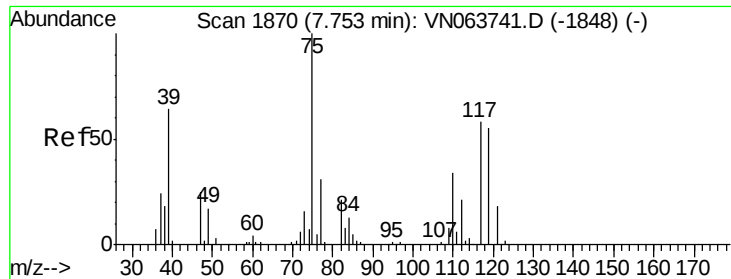
#35
 Dibromofluoromethane
 Concen: 46.809 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064060.D
 Acq: 10 Oct 2020 1:37

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.0	81.8	122.8
192	17.9	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

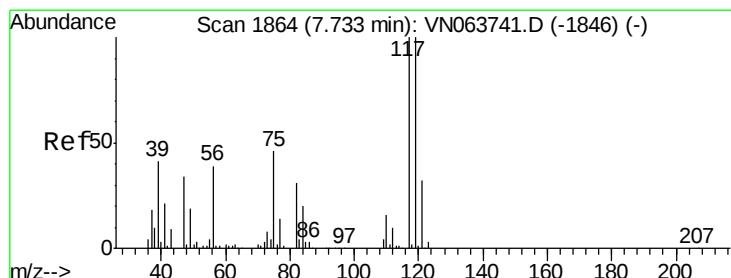
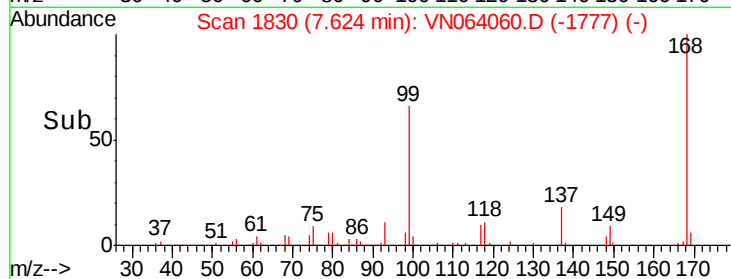
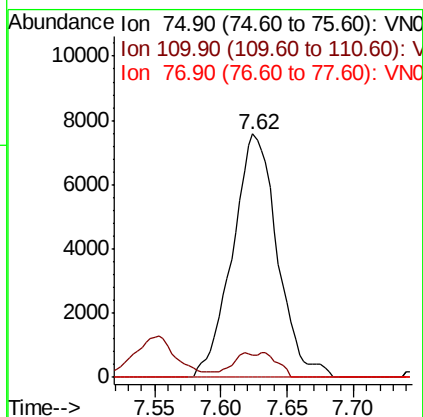
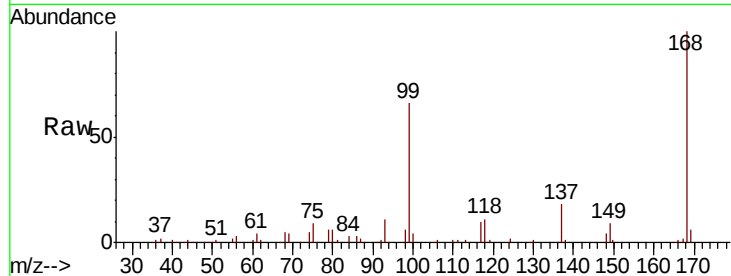




#36
 1,1-Dichloropropene
 Concen: 4.451 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064060.D
 Acq: 10 Oct 2020 1:37

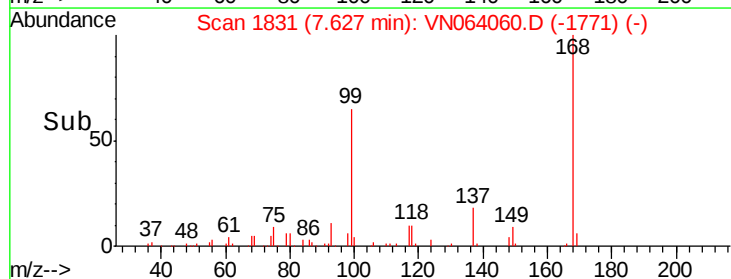
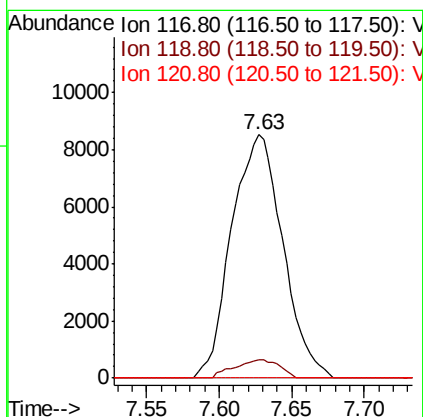
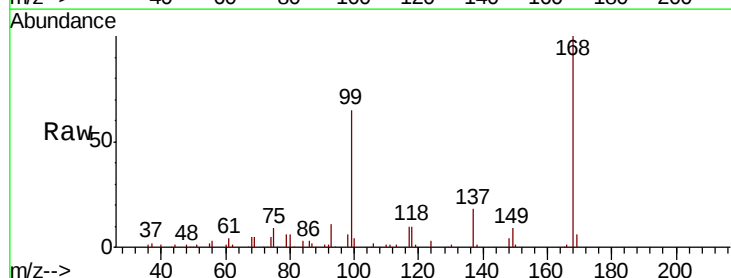
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132229ZHE#14

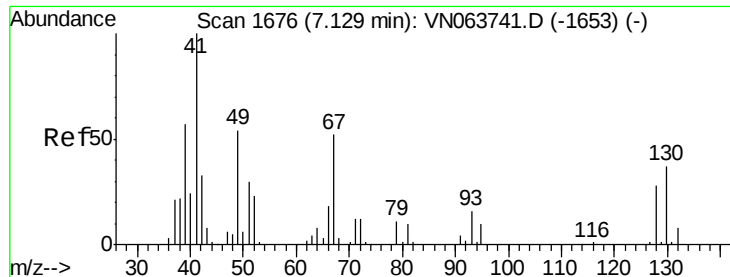
Tot Ion: 75 Resp: 17819
 Ion Ratio Lower Upper
 75 100
 110 3.3 16.9 50.6#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 4.658 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064060.D
 Acq: 10 Oct 2020 1:37

Tgt Ion: 117 Resp: 20910
 Ion Ratio Lower Upper
 117 100
 119 7.7 80.1 120.1#
 121 0.0 25.7 38.5#

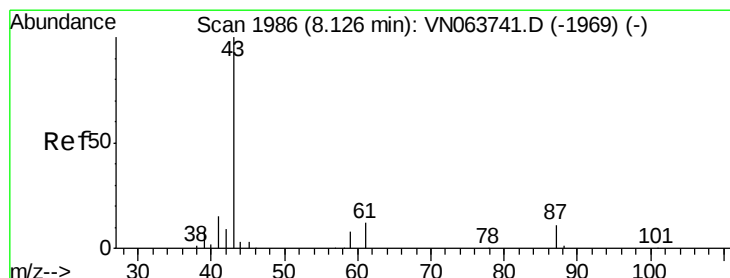
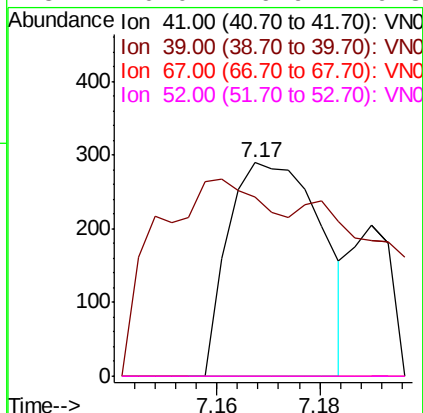
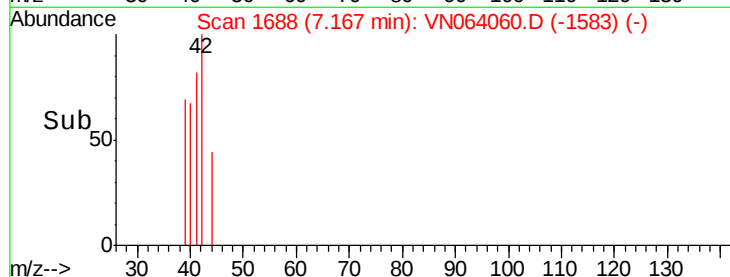
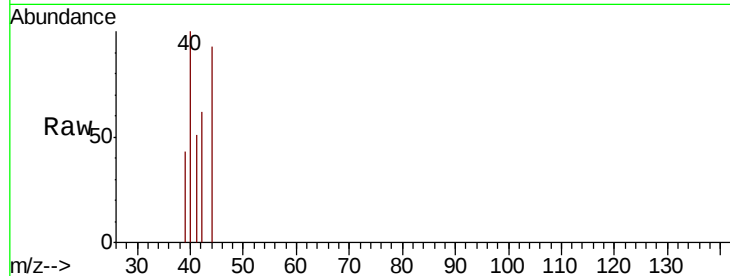




#41
Methacrylonitrile
Concen: 0.205 ug/l
RT: 7.17 min Scan# 1688
Delta R.T. 0.04 min
Lab File: VN064060.D
Acq: 10 Oct 2020 1:37

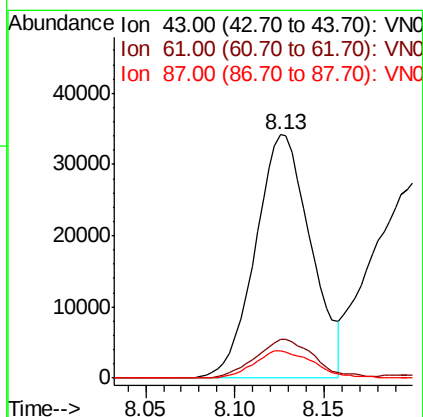
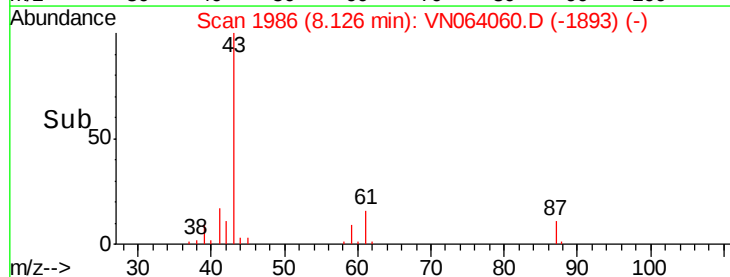
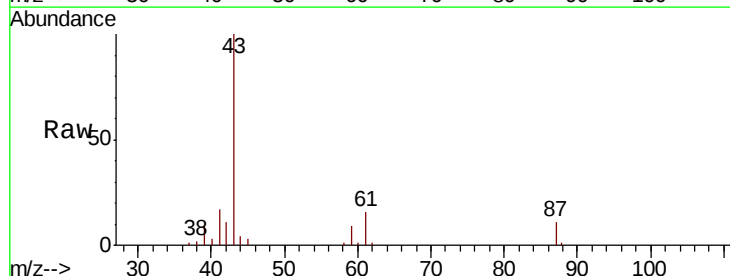
Instrument :
MSVOA_N
ClientSampleId :
PB132229ZHE#14

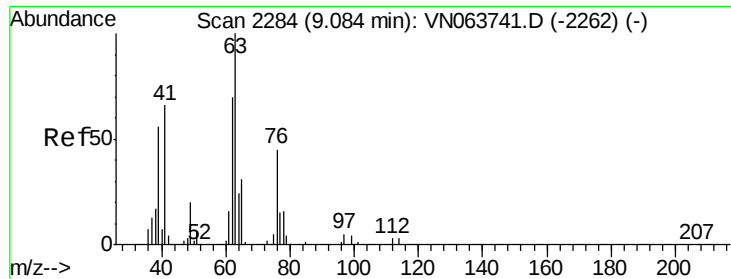
Tot Ion: 41 Resp: 363
Ion Ratio Lower Upper
41 100
39 120.4 42.5 63.7#
67 0.0 57.4 86.2#
52 0.0 26.9 40.3#



#43
Isopropyl Acetate
Concen: 11.304 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN064060.D
Acq: 10 Oct 2020 1:37

Tgt Ion: 43 Resp: 74163
Ion Ratio Lower Upper
43 100
61 16.7 14.2 21.4
87 11.9 9.0 13.6





#45

1,2-Dichloropropane

Concen: 0.512 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064060.D

Acq: 10 Oct 2020 1:37

Instrument :

MSVOA_N

ClientSampleId :

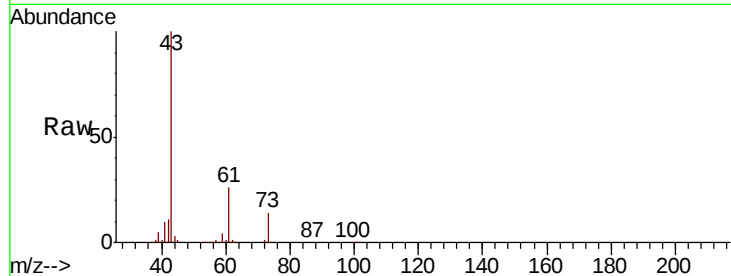
PB132229ZHE#14

Tot Ion: 63 Resp: 1582

Ion Ratio Lower Upper

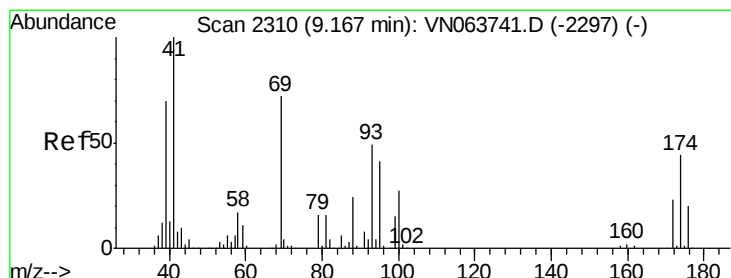
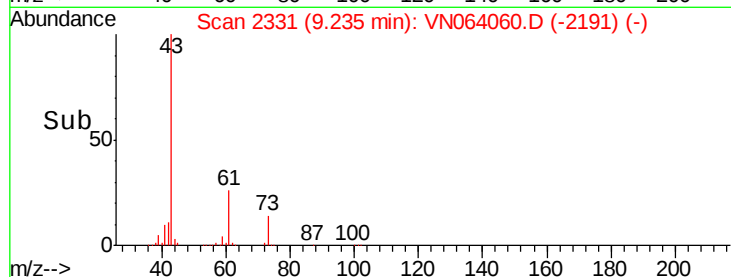
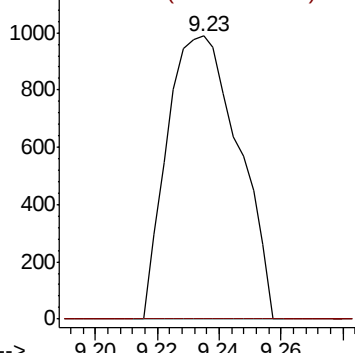
63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.383 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN064060.D

Acq: 10 Oct 2020 1:37

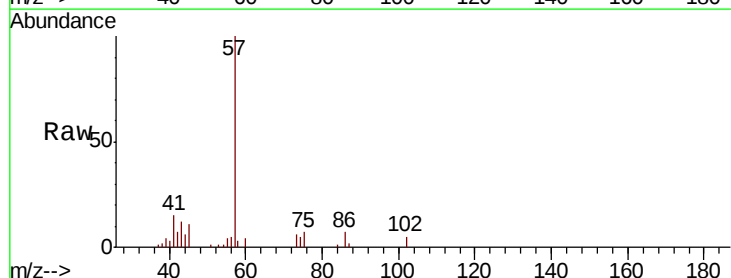
Tgt Ion: 41 Resp: 4482

Ion Ratio Lower Upper

41 100

69 0.0 60.9 91.3#

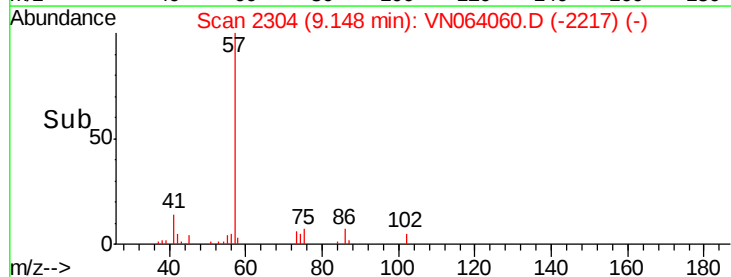
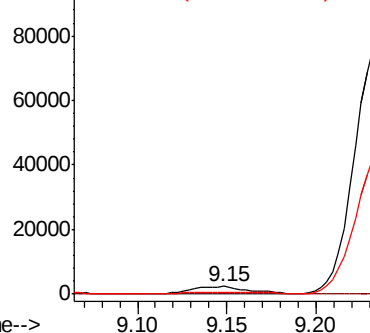
39 0.0 57.5 86.3#

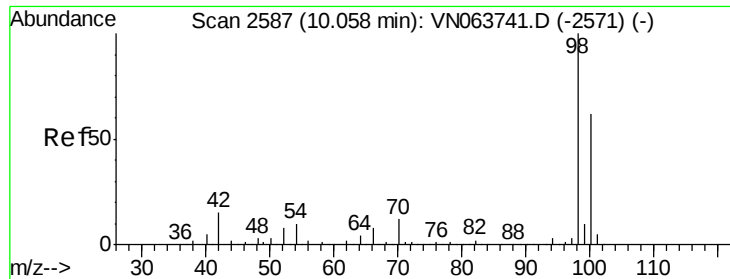


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 48.212 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064060.D

Acq: 10 Oct 2020 1:37

Instrument :

MSVOA_N

ClientSampleId :

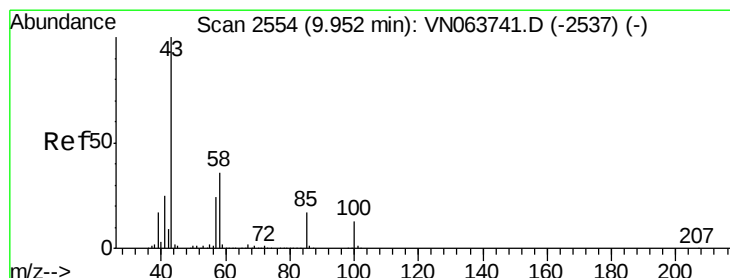
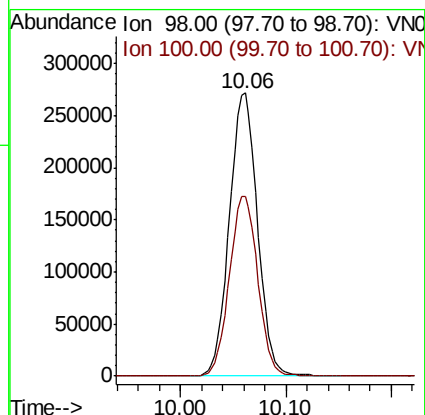
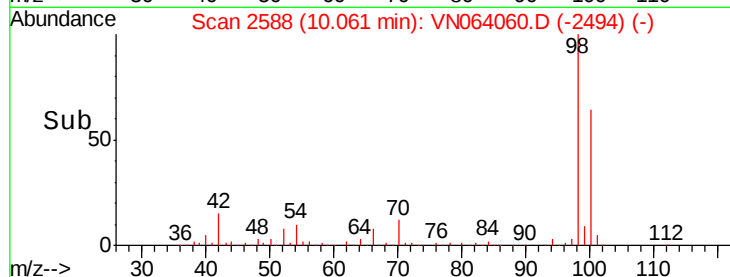
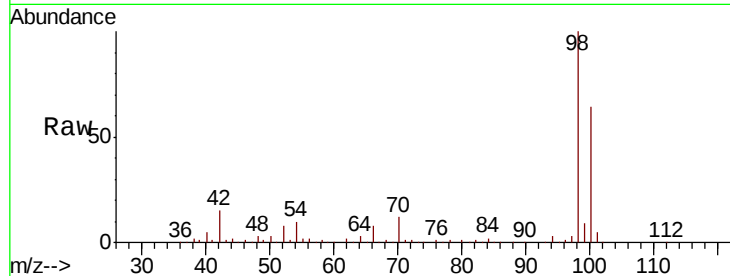
PB132229ZHE#14

Tot Ion: 98 Resp: 501169

Ion Ratio Lower Upper

98 100

100 64.2 49.8 74.6



#51

4-Methyl-2-Pentanone

Concen: 1.804 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064060.D

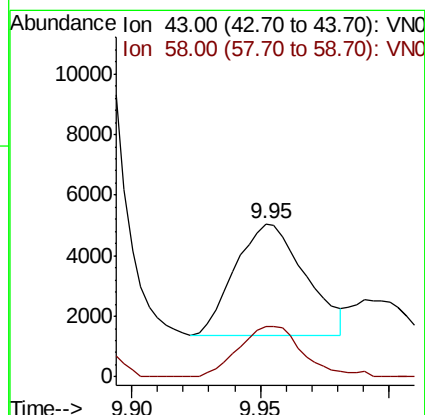
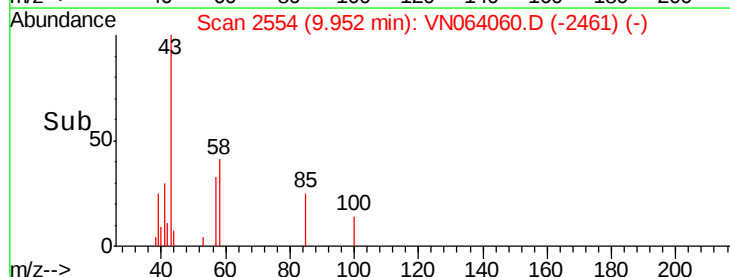
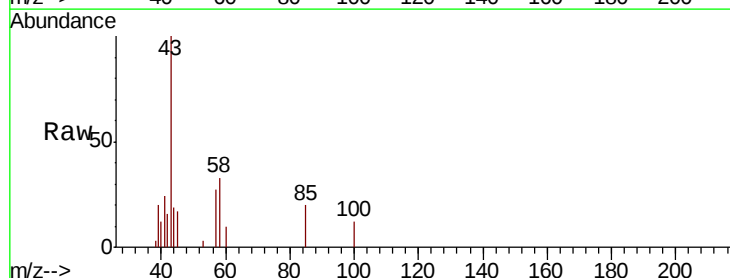
Acq: 10 Oct 2020 1:37

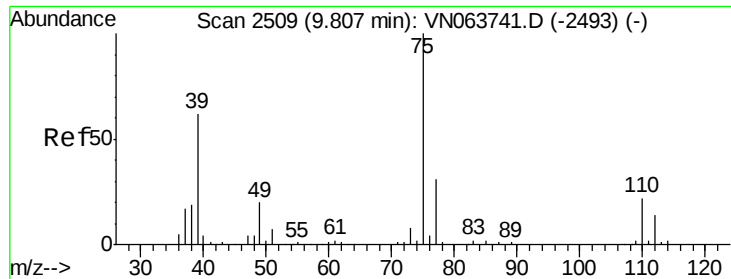
Tgt Ion: 43 Resp: 6946

Ion Ratio Lower Upper

43 100

58 42.3 28.4 42.6





#54

cis-1,3-Dichloropropene

Concen: 5.725 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064060.D

Acq: 10 Oct 2020 1:37

Instrument :

MSVOA_N

ClientSampleId :

PB132229ZHE#14

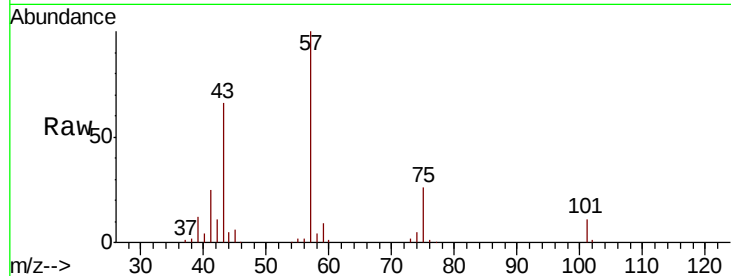
Tot Ion: 75 Resp: 28182

Ion Ratio Lower Upper

75 100

77 1.1 24.6 36.8#

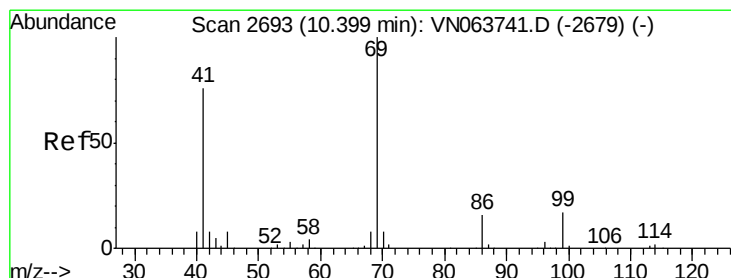
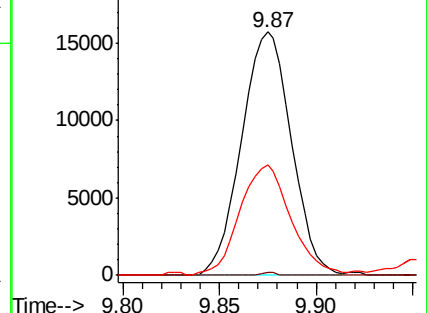
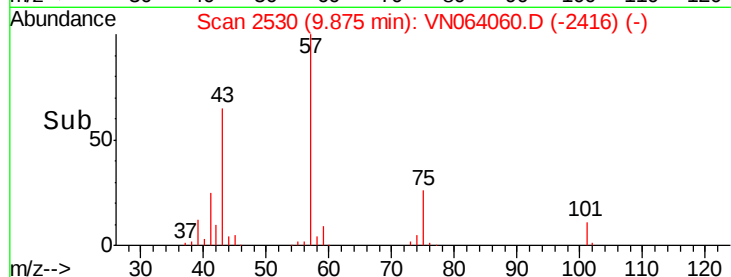
39 45.4 49.7 74.5#



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: 0.612 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN064060.D

Acq: 10 Oct 2020 1:37

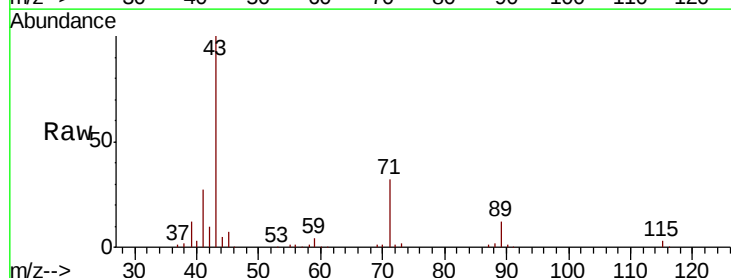
Tgt Ion: 69 Resp: 2460

Ion Ratio Lower Upper

69 100

41 2880.9 61.1 91.7#

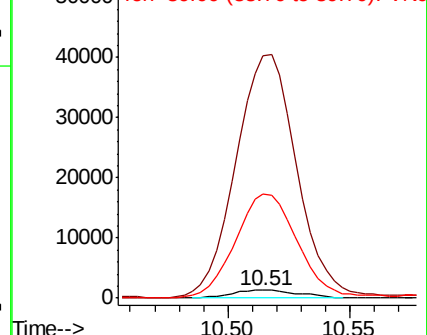
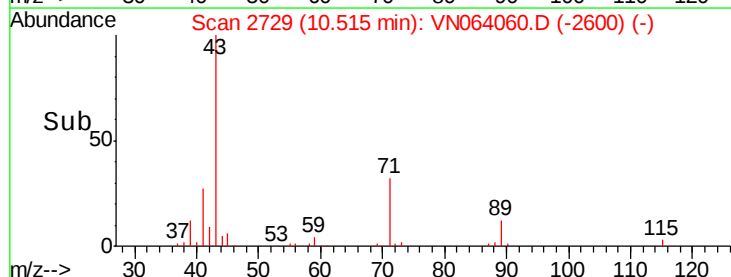
39 1257.4 42.2 63.4#

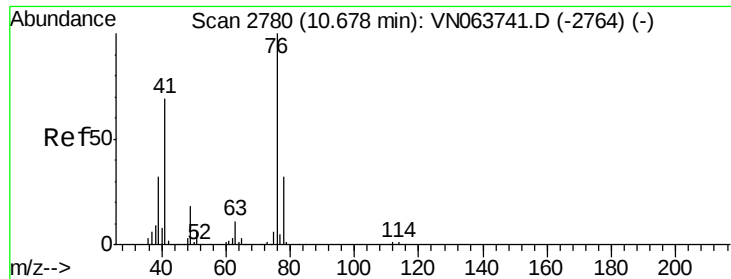


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

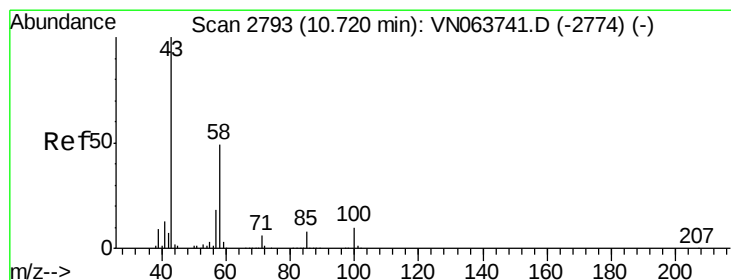
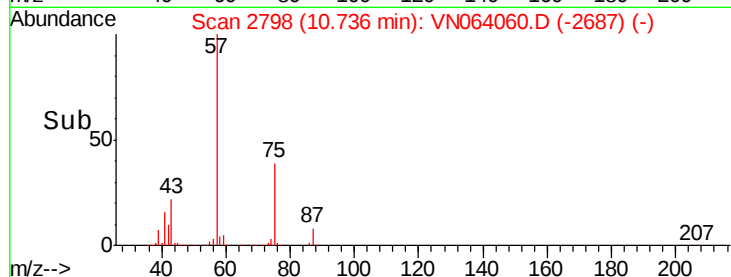
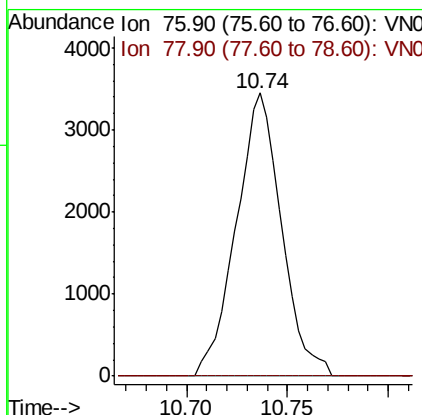
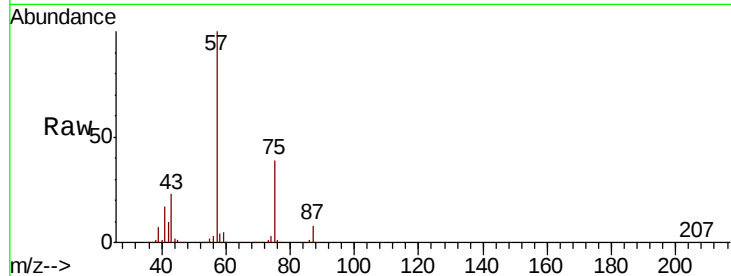




#57
 1,3-Dichloropropane
 Concen: 1.130 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN064060.D
 Acq: 10 Oct 2020 1:37

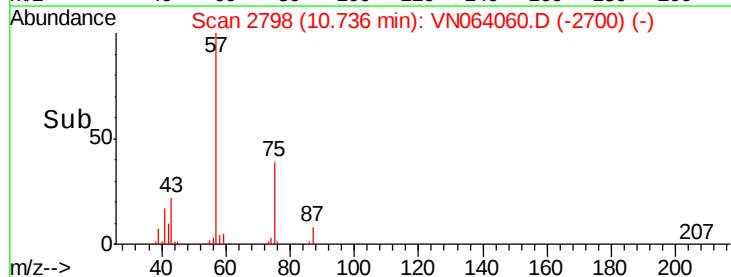
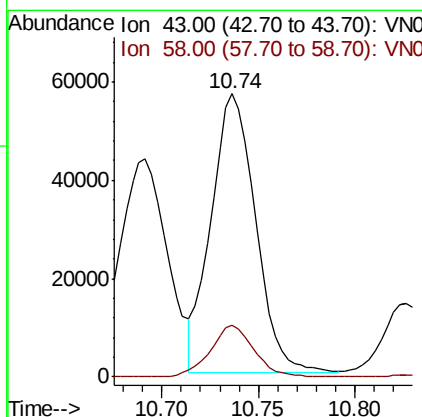
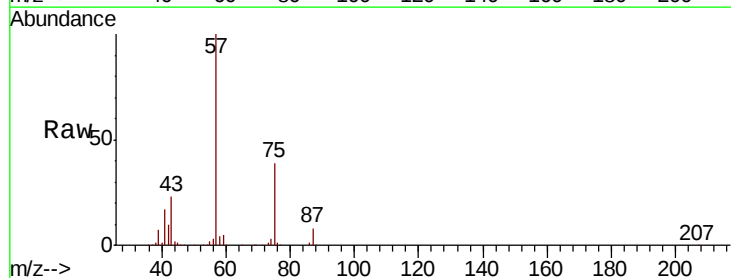
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132229ZHE#14

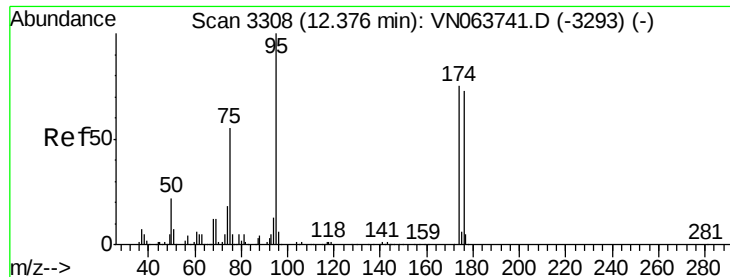
Tot Ion: 76 Resp: 5421
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 31.601 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN064060.D
 Acq: 10 Oct 2020 1:37

Tgt Ion: 43 Resp: 90388
 Ion Ratio Lower Upper
 43 100
 58 18.2 24.6 73.8#

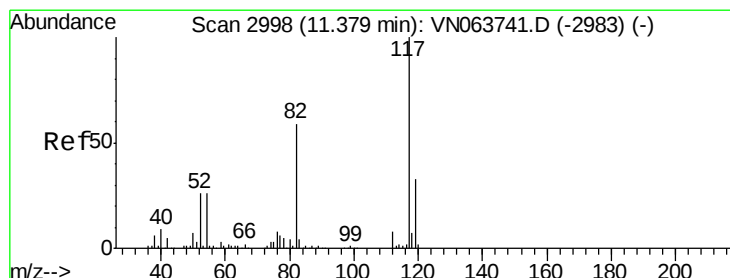
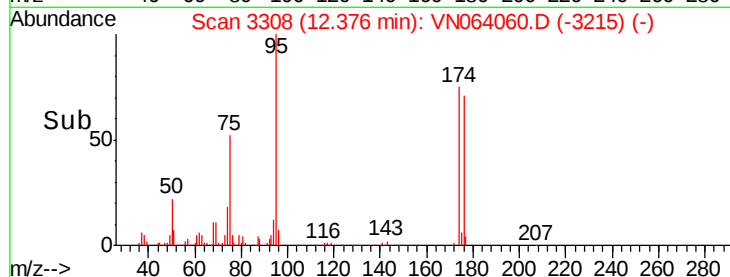
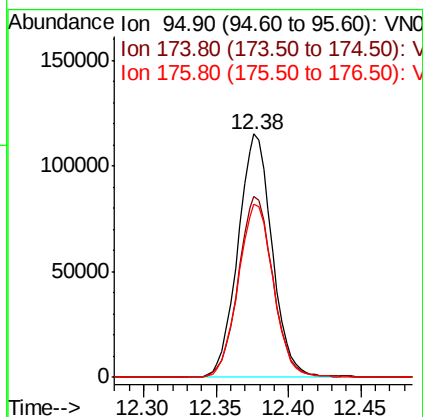
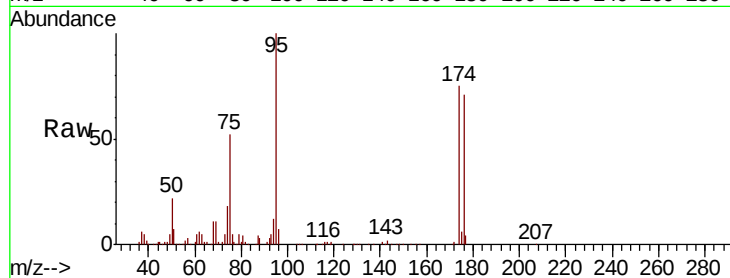




#62
4-Bromofluorobenzene
Concen: 48.310 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064060.D
Acq: 10 Oct 2020 1:37

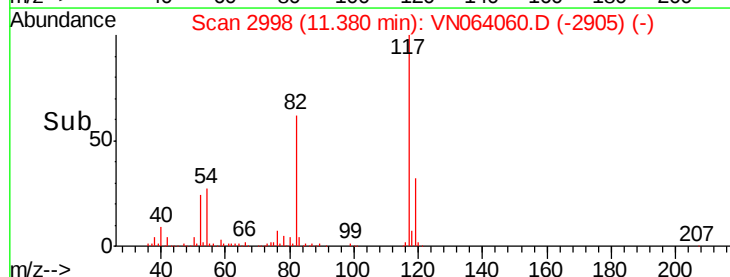
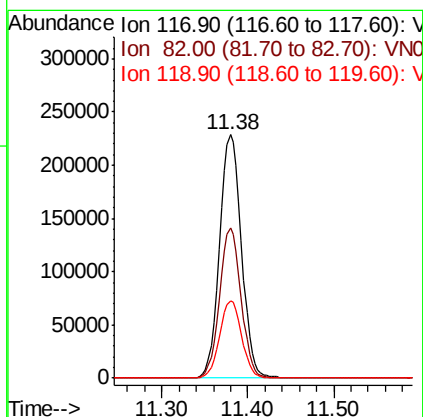
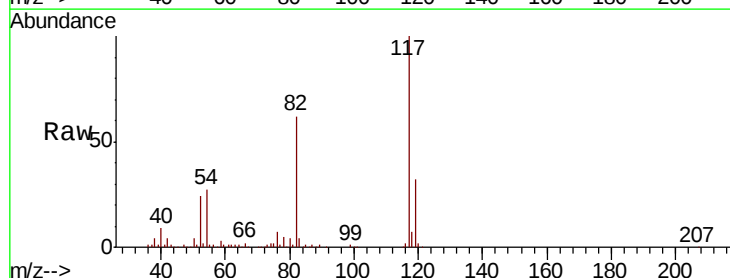
Instrument :
MSVOA_N
ClientSampleId :
PB132229ZHE#14

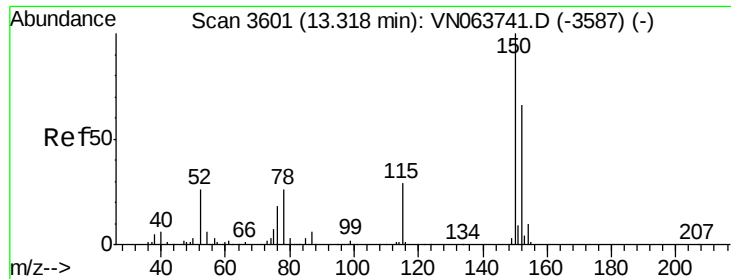
Tot Ion: 95 Resp: 188777
Ion Ratio Lower Upper
95 100
174 76.0 0.0 150.6
176 72.9 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064060.D
Acq: 10 Oct 2020 1:37

Tgt Ion: 117 Resp: 404838
Ion Ratio Lower Upper
117 100
82 61.5 47.4 71.2
119 31.9 26.4 39.6

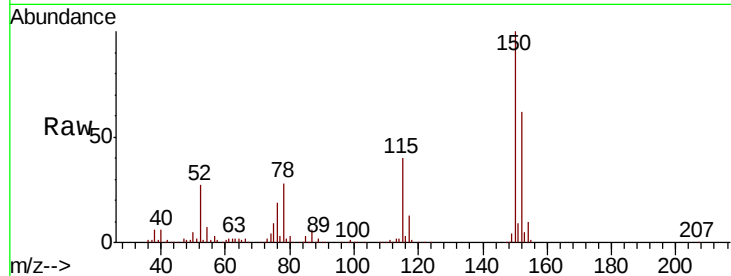




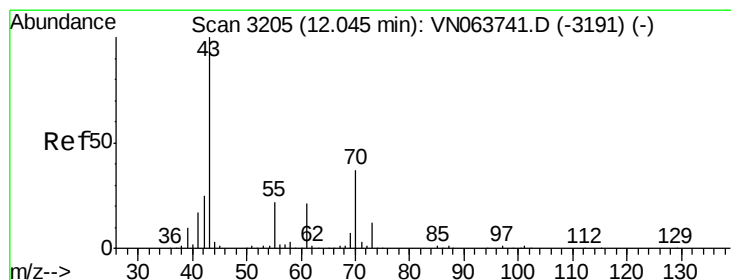
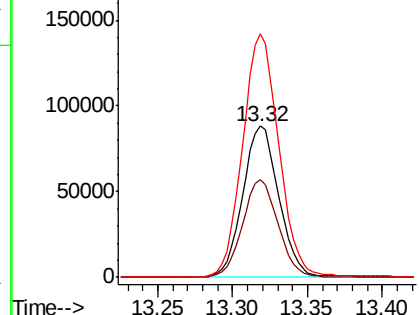
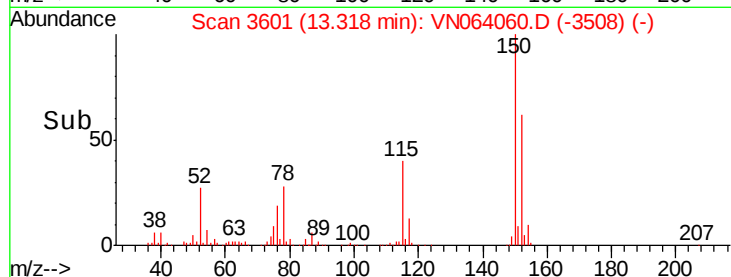
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VN064060.D
 Acq: 10 Oct 2020 1:37

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132229ZHE#14

Tot Ion:152 Resp: 148045
 Ion Ratio Lower Upper
 152 100
 115 64.1 31.3 93.8
 150 161.8 0.0 341.8

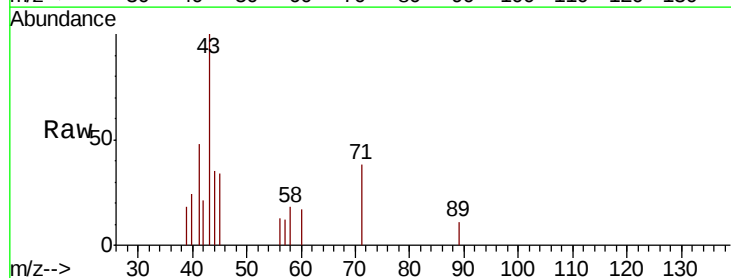


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

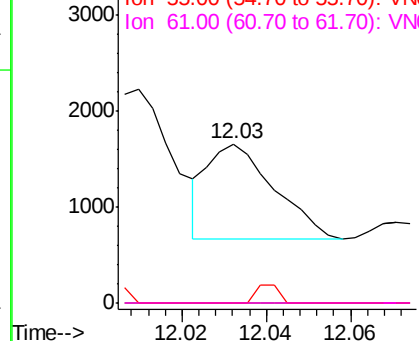
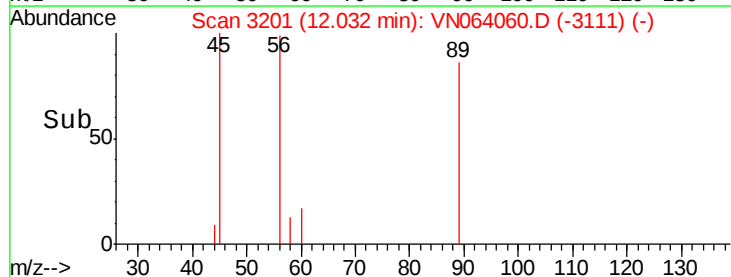


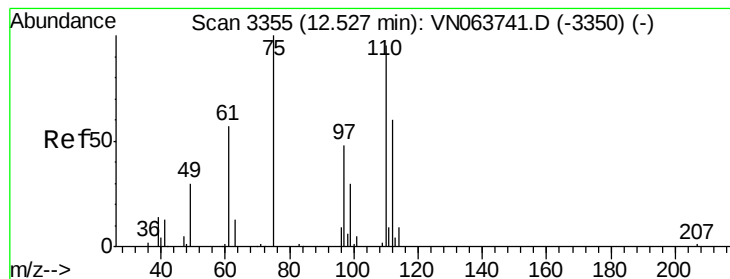
#74
 N-ethyl acetate
 Concen: 2.422 ug/l
 RT: 12.03 min Scan# 3201
 Delta R.T. -0.01 min
 Lab File: VN064060.D
 Acq: 10 Oct 2020 1:37

Tgt Ion: 43 Resp: 1080
 Ion Ratio Lower Upper
 43 100
 70 0.0 29.8 44.8#
 55 6.6 17.9 26.9#
 61 0.0 17.0 25.4#



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: 31.209 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064060.D

Acq: 10 Oct 2020 1:37

Instrument :

MSVOA_N

ClientSampleId :

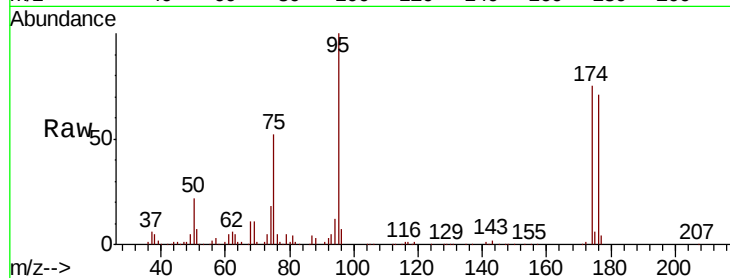
PB132229ZHE#14

Tot Ion: 75 Resp: 101851

Ion Ratio Lower Upper

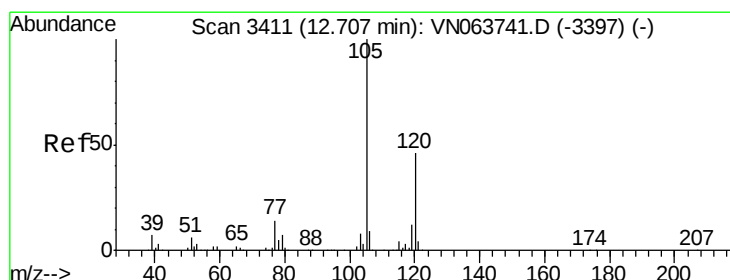
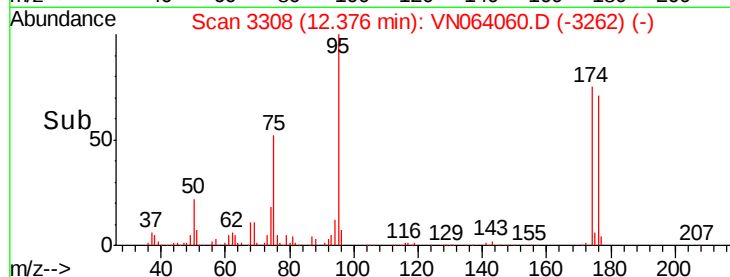
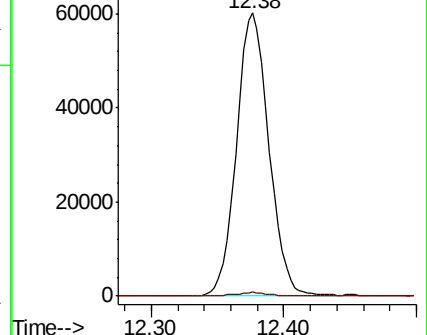
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063741.D (-3350) (-)

Ion 77.00 (76.70 to 77.70): VN063741.D (-3350) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.487 ug/l

RT: 12.71 min Scan# 3413

Delta R.T. 0.01 min

Lab File: VN064060.D

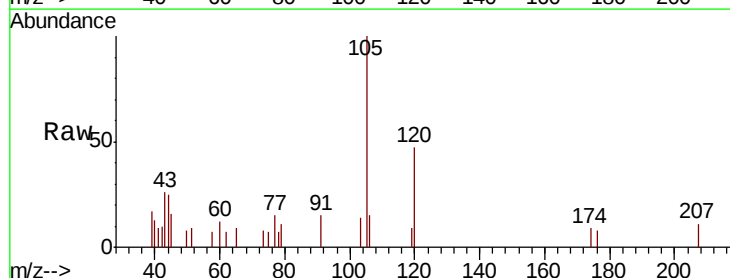
Acq: 10 Oct 2020 1:37

Tgt Ion: 105 Resp: 4413

Ion Ratio Lower Upper

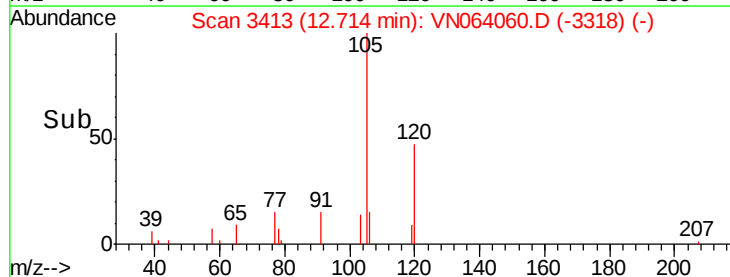
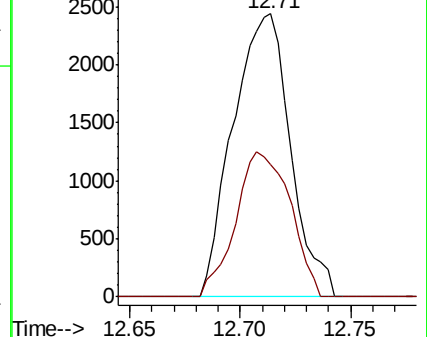
105 100

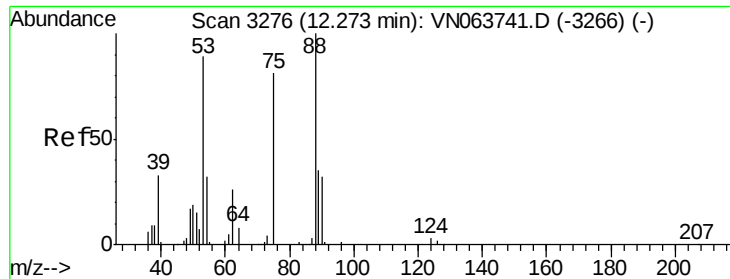
120 48.9 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): VN063741.D (-3397) (-)

Ion 120.00 (119.70 to 120.70): VN063741.D (-3397) (-)

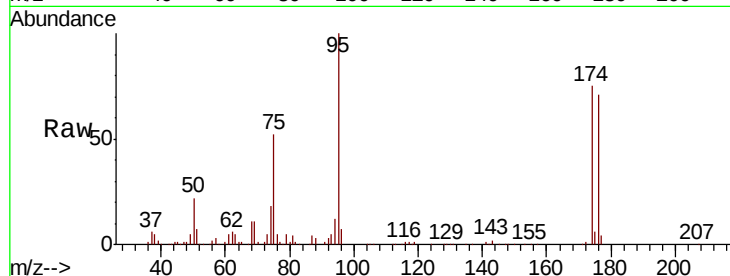




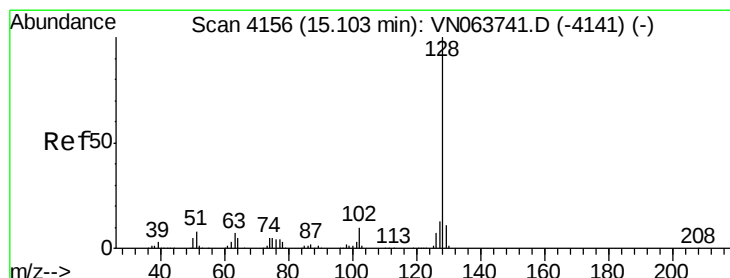
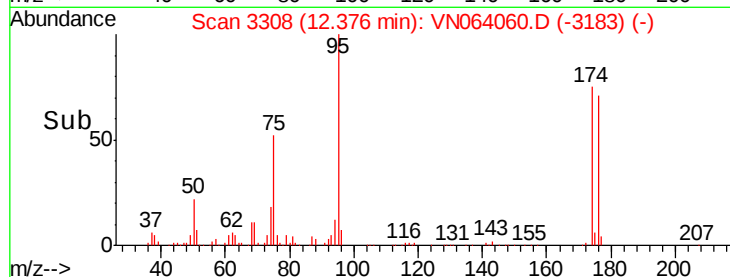
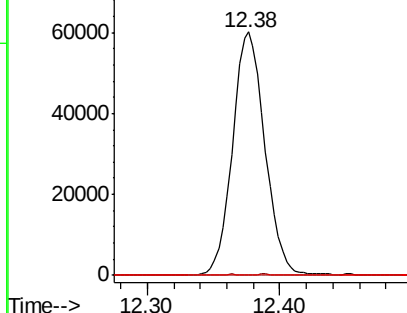
#81
trans-1,4-Dichloro-2-butene
Concen: 89.887 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN064060.D
Acq: 10 Oct 2020 1:37

Instrument :
MSVOA_N
ClientSampleId :
PB132229ZHE#14

Tot Ion: 75 Resp: 101851
Ion Ratio Lower Upper
75 100
53 0.3 88.2 132.2#
89 0.0 36.0 54.0#

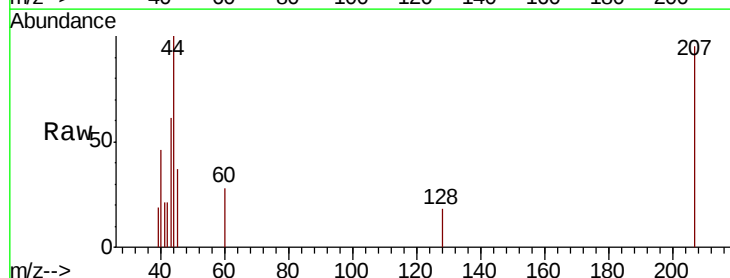


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#95
Naphthalene
Concen: 1.928 ug/l
RT: 15.11 min Scan# 4157
Delta R.T. 0.00 min
Lab File: VN064060.D
Acq: 10 Oct 2020 1:37

Tgt Ion: 128 Resp: 29
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

