

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102920\
 Data File : VN064383.D
 Acq On : 29 Oct 2020 18:55
 Operator : JC/MD
 Sample : L4217-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HR-01-102820

Quant Time: Oct 30 05:34:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 12:23:17 2020
 Response via : Initial Calibration

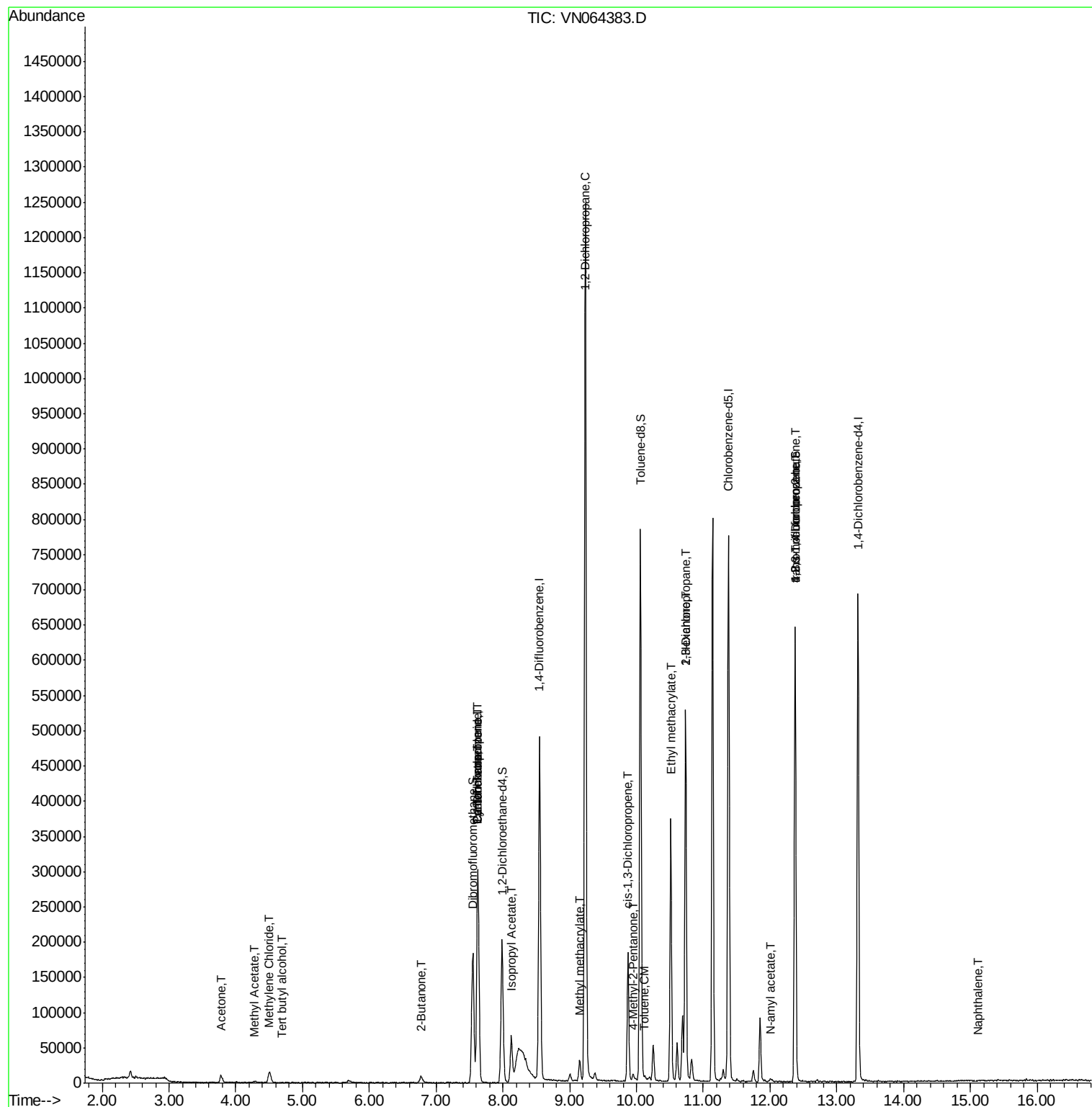
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	221485	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	404700	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	410149	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	174977	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	188696	53.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.04%	
35) Dibromofluoromethane	7.55	113	134240	49.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.48%	
50) Toluene-d8	10.06	98	514819	51.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.14%	
62) 4-Bromofluorobenzene	12.38	95	216813	55.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.40%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.69	59	229	0.443	ug/l #	70
16) Acetone	3.78	43	16688	6.601	ug/l	99
18) Methyl Acetate	4.27	43	1364	0.510	ug/l #	80
20) Methylene Chloride	4.51	84	5847	2.316	ug/l	93
25) 2-Butanone	6.78	43	1347	0.754	ug/l #	52
31) Cyclohexane	7.62	56	6407	1.551	ug/l #	22
36) 1,1-Dichloropropene	7.62	75	20355	4.984	ug/l #	51
38) Carbon Tetrachloride	7.62	117	24177	5.106	ug/l #	17
43) Isopropyl Acetate	8.13	43	82851	11.748	ug/l #	88
45) 1,2-Dichloropropane	9.23	63	1287	0.423	ug/l #	44
48) Methyl methacrylate	9.15	41	4726	1.299	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	6902	1.684	ug/l	99
52) Toluene	10.12	92	1988	0.277	ug/l #	65
54) cis-1,3-Dichloropropene	9.87	75	30394	5.916	ug/l #	61
56) Ethyl methacrylate	10.51	69	1178	0.275	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4491	0.930	ug/l #	42
59) 2-Hexanone	10.74	43	84938	28.132	ug/l #	51
74) N-amyl acetate	12.00	43	2168	0.376	ug/l #	47
76) 1,2,3-Trichloropropane	12.38	75	120675	28.799	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	120675	82.957	ug/l #	8
95) Naphthalene	15.12	128	64	2.399	ug/l #	69

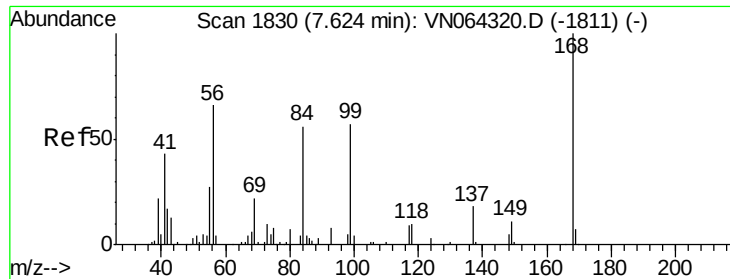
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN102920\
Data File : VN064383.D
Acq On : 29 Oct 2020 18:55
Operator : JC/MD
Sample : L4217-11
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
HR-01-102820

Quant Time: Oct 30 05:34:50 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 27 12:23:17 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN064383.D

Acq: 29 Oct 2020 18:55

Instrument :

MSVOA_N

ClientSampled :

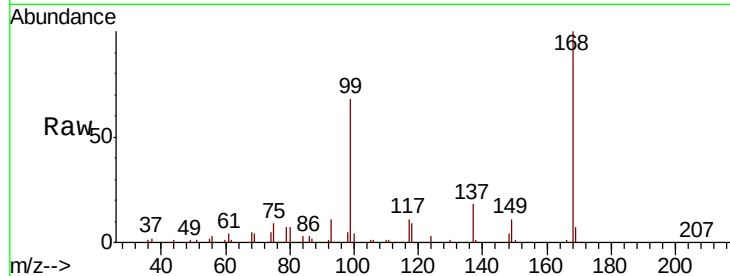
HR-01-102820

Tot Ion:168 Resp: 221485

Ion Ratio Lower Upper

168 100

99 68.0 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.62

100000

80000

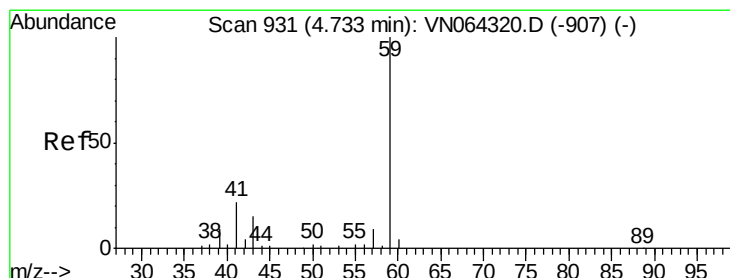
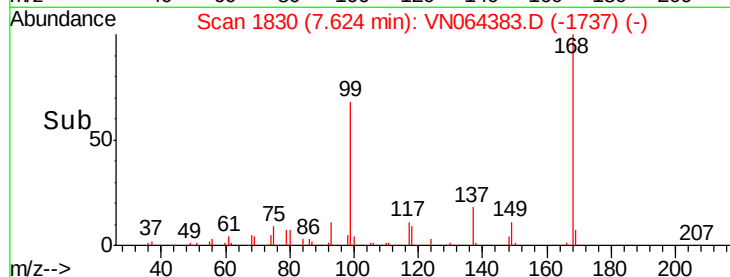
60000

40000

20000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#11

Tert butyl alcohol

Concen: 0.443 ug/l

RT: 4.69 min Scan# 919

Delta R.T. -0.04 min

Lab File: VN064383.D

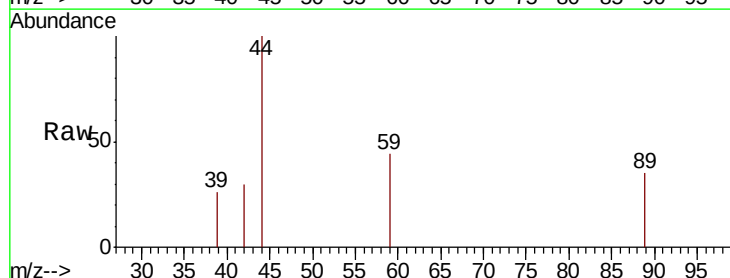
Acq: 29 Oct 2020 18:55

Tgt Ion: 59 Resp: 229

Ion Ratio Lower Upper

59 100

57 0.0 9.4 14.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.69

300

250

200

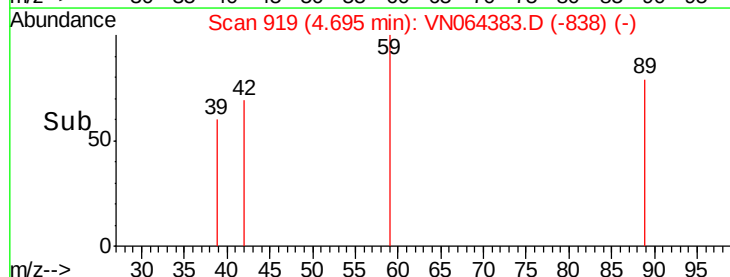
150

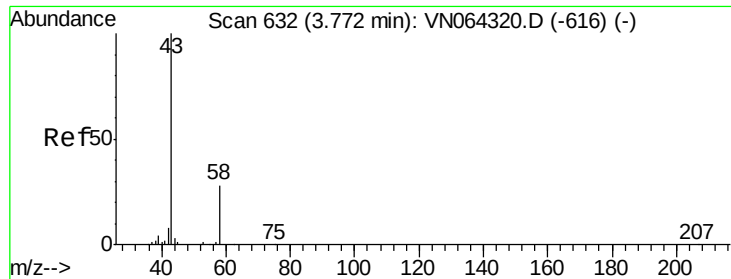
100

50

0

Time--> 4.67 4.68 4.69 4.70 4.71





#16

Acetone

Concen: 6.601 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN064383.D

Acq: 29 Oct 2020 18:55

Instrument :

MSVOA_N

ClientSampleId :

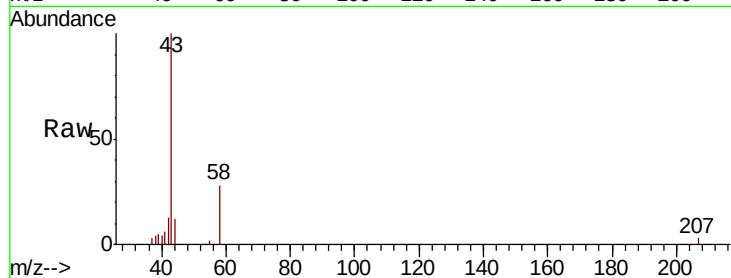
HR-01-102820

Tot Ion: 43 Resp: 16688

Ion Ratio Lower Upper

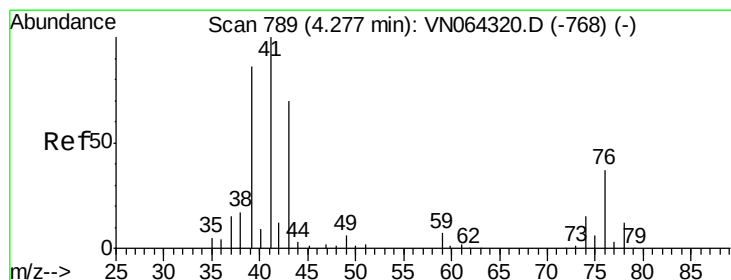
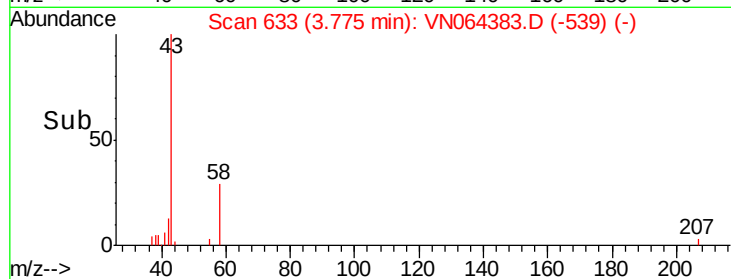
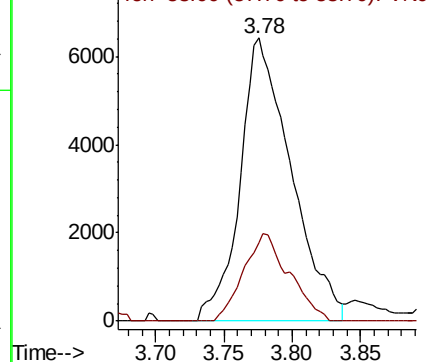
43 100

58 27.9 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.510 ug/l

RT: 4.27 min Scan# 787

Delta R.T. -0.01 min

Lab File: VN064383.D

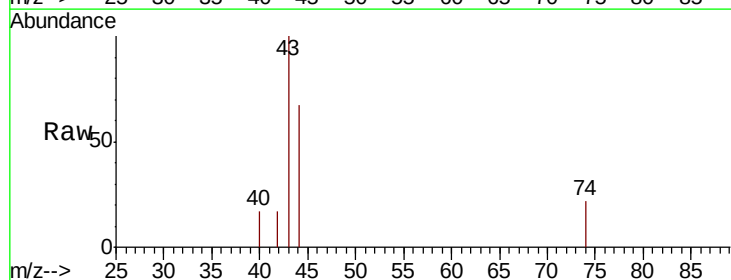
Acq: 29 Oct 2020 18:55

Tgt Ion: 43 Resp: 1364

Ion Ratio Lower Upper

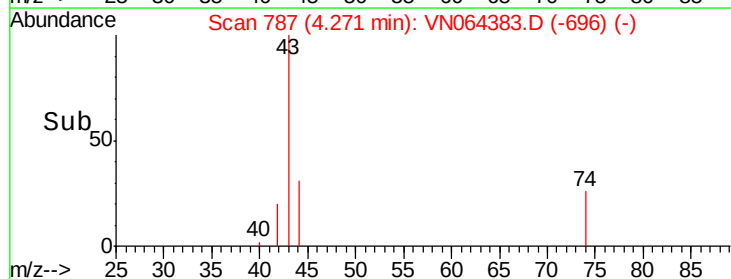
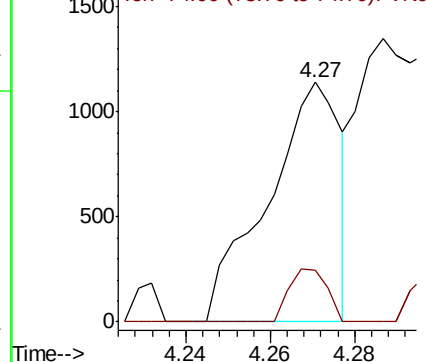
43 100

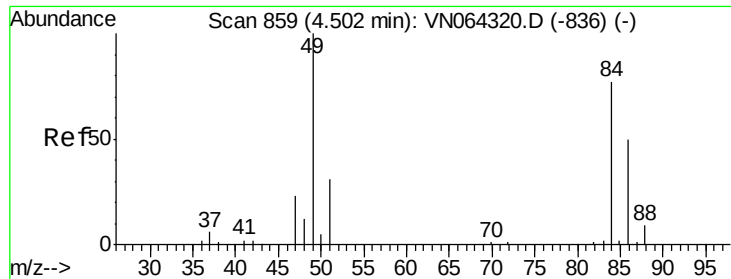
74 11.5 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

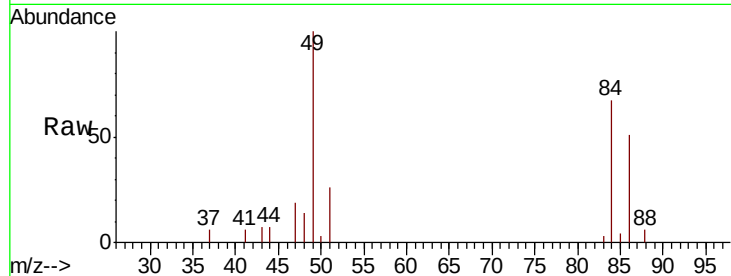




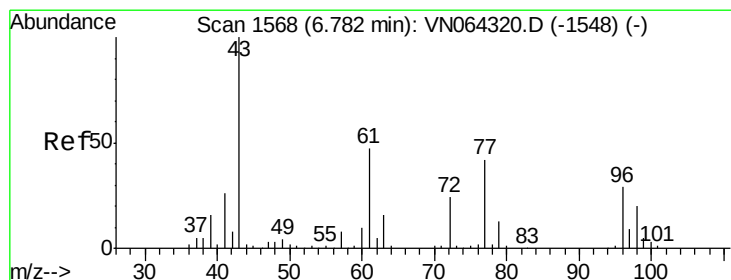
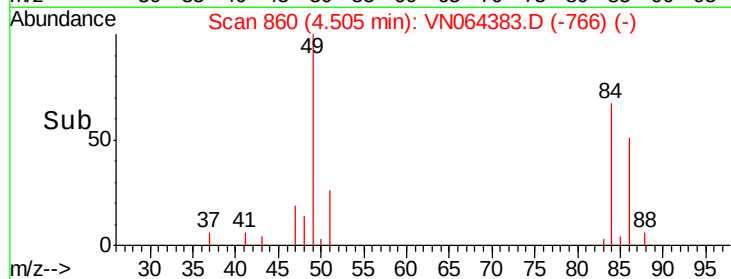
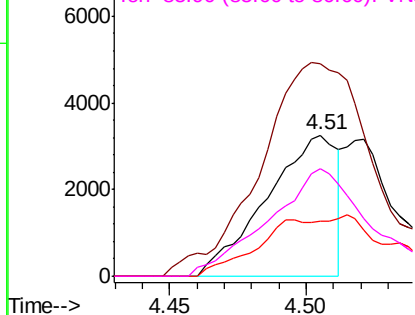
#20
Methvlene Chloride
Concen: 2.316 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN064383.D
Acq: 29 Oct 2020 18:55

Instrument :
MSVOA_N
ClientSampleId :
HR-01-102820

Tot Ion:	84	Resp:	5847
Ion	Ratio	Lower	Upper
84	100		
49	135.4	103.6	155.4
51	39.1	31.8	47.8
86	76.3	51.3	76.9

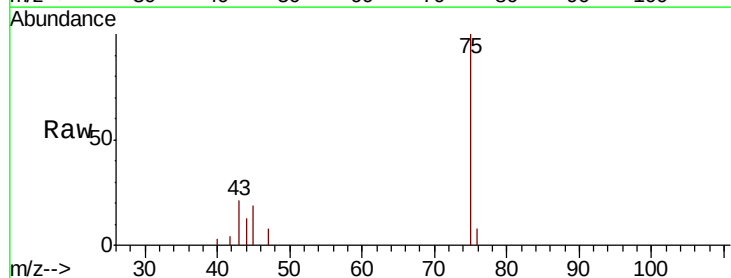


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

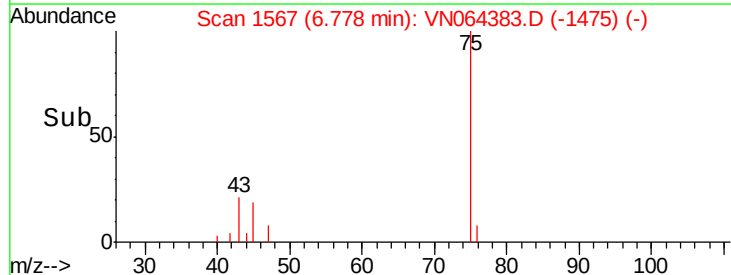
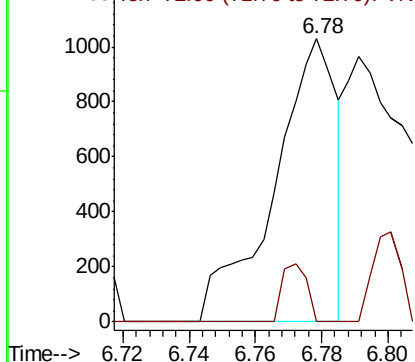


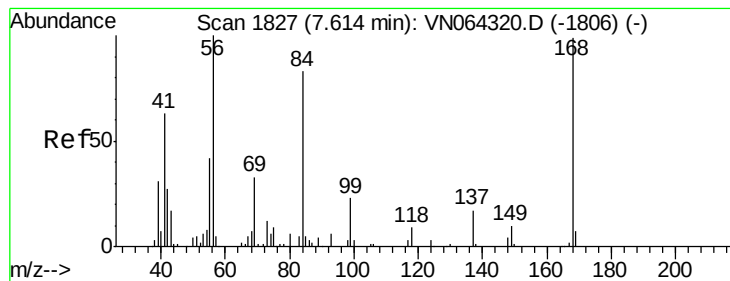
#25
2-Butanone
Concen: 0.754 ug/l
RT: 6.78 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VN064383.D
Acq: 29 Oct 2020 18:55

Tgt Ion:	43	Resp:	1347
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.8	28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 1.551 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064383.D

Acq: 29 Oct 2020 18:55

Instrument :

MSVOA_N

ClientSampleId :

HR-01-102820

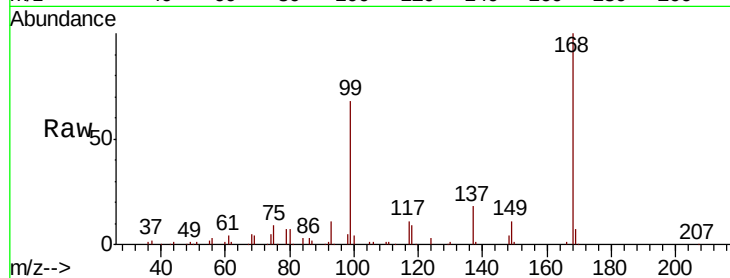
Tot Ion: 56 Resp: 6407

Ion Ratio Lower Upper

56 100

69 160.9 25.8 38.8#

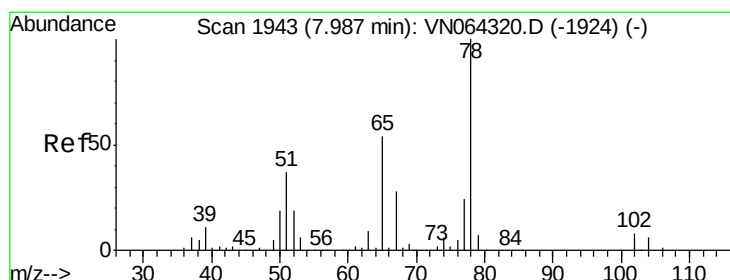
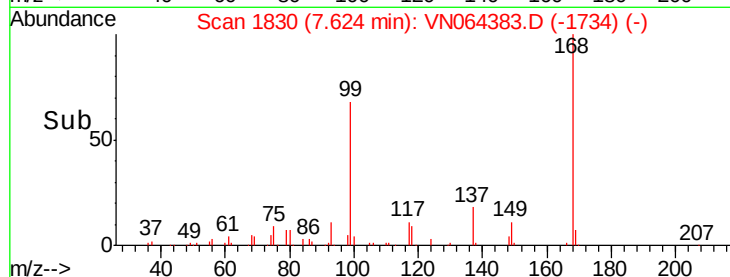
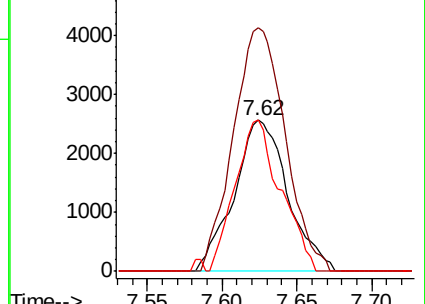
84 100.3 66.3 99.5#



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: 53.016 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064383.D

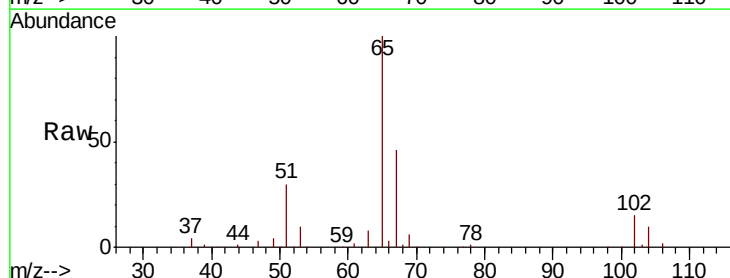
Acq: 29 Oct 2020 18:55

Tgt Ion: 65 Resp: 188696

Ion Ratio Lower Upper

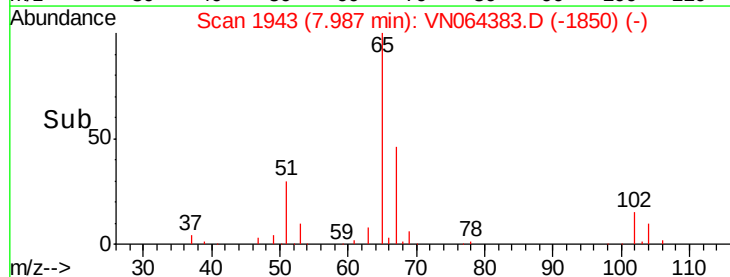
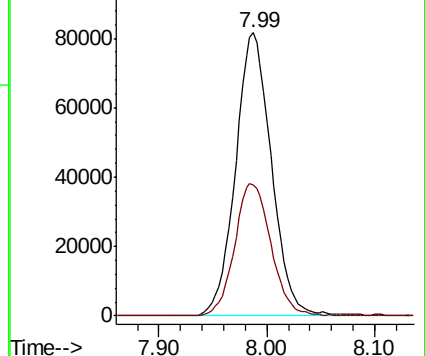
65 100

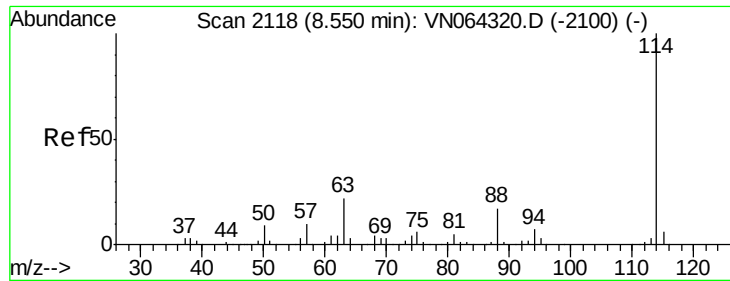
67 47.5 0.0 99.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

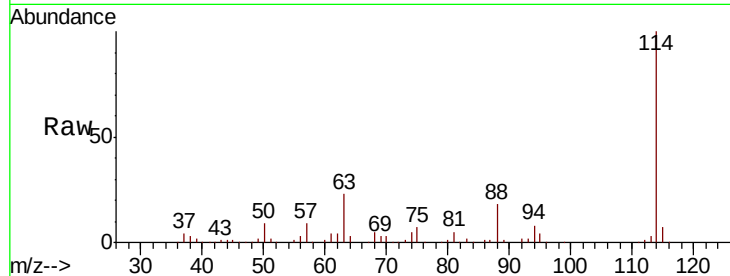




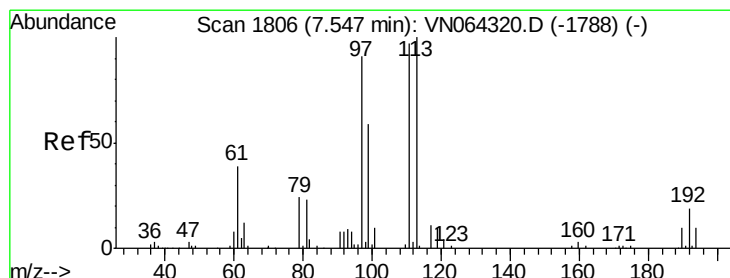
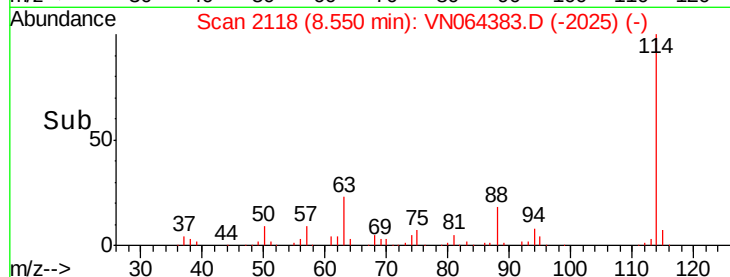
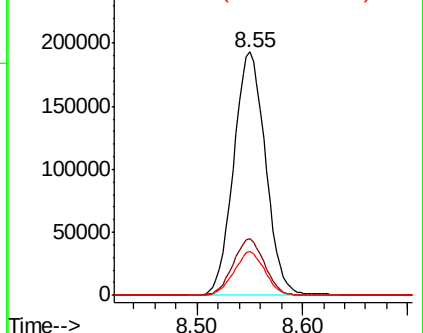
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064383.D
 Acq: 29 Oct 2020 18:55

Instrument :
 MSVOA_N
 ClientSampleId :
 HR-01-102820

Tot Ion:114 Resp: 404700
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 44.6
 88 17.8 0.0 33.4

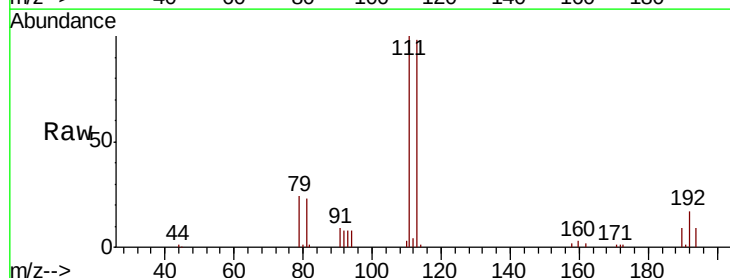


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

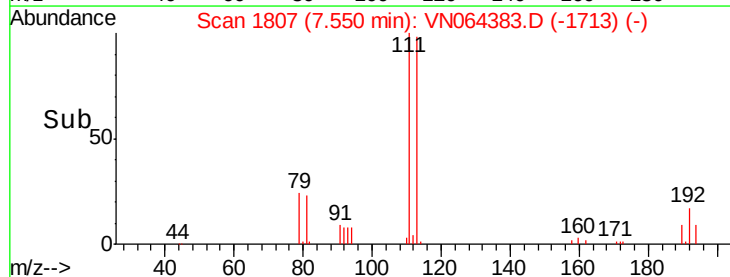
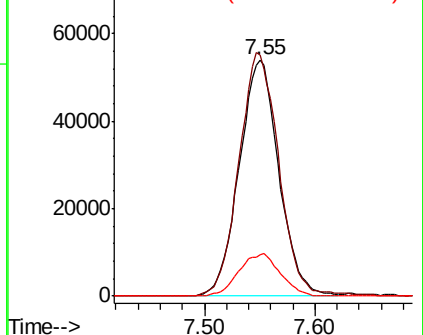


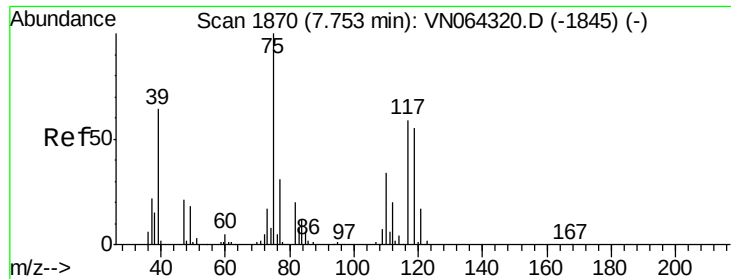
#35
 Dibromofluoromethane
 Concen: 49.740 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064383.D
 Acq: 29 Oct 2020 18:55

Tgt Ion:113 Resp: 134240
 Ion Ratio Lower Upper
 113 100
 111 103.7 81.5 122.3
 192 18.8 15.0 22.4



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: 4.984 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064383.D

Acq: 29 Oct 2020 18:55

Instrument :

MSVOA_N

ClientSampleId :

HR-01-102820

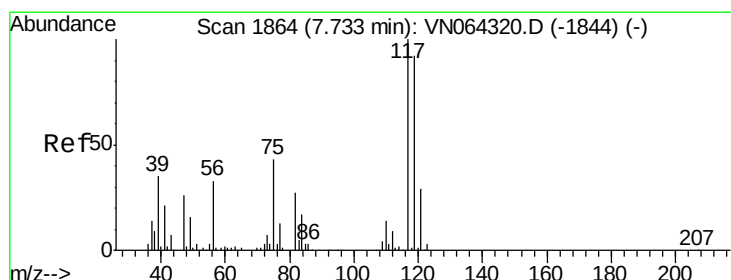
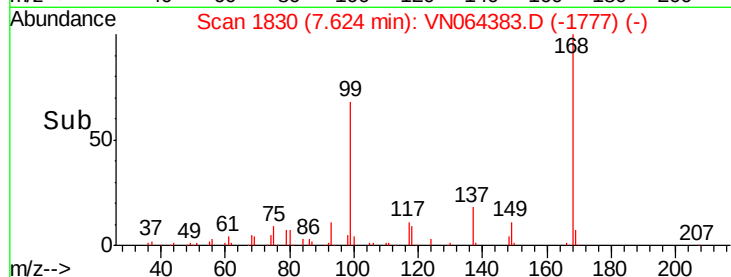
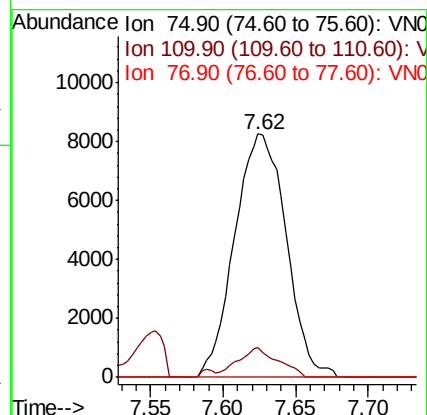
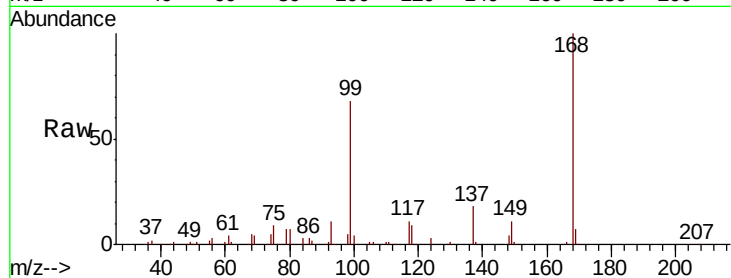
Tot Ion: 75 Resp: 20355

Ion Ratio Lower Upper

75 100

110 9.5 16.8 50.3#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 5.106 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064383.D

Acq: 29 Oct 2020 18:55

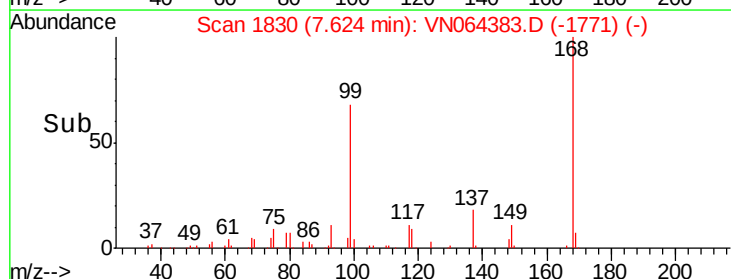
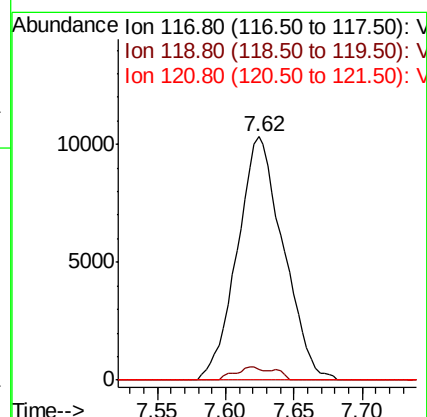
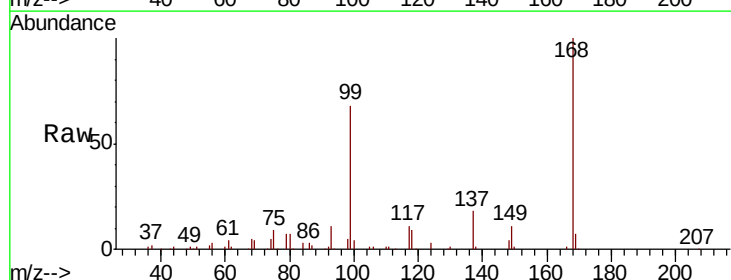
Tgt Ion: 117 Resp: 24177

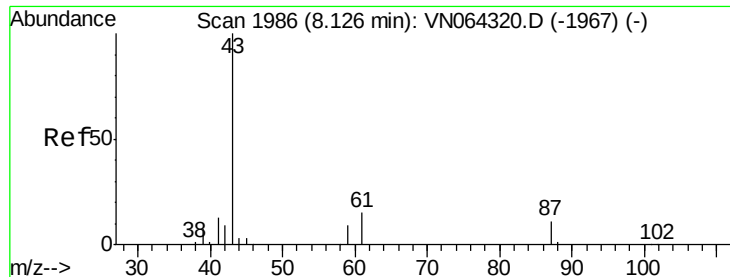
Ion Ratio Lower Upper

117 100

119 4.2 73.7 110.5#

121 0.0 22.8 34.2#





#43

Isopropyl Acetate

Concen: 11.748 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064383.D

Acq: 29 Oct 2020 18:55

Instrument :

MSVOA_N

ClientSampleId :

HR-01-102820

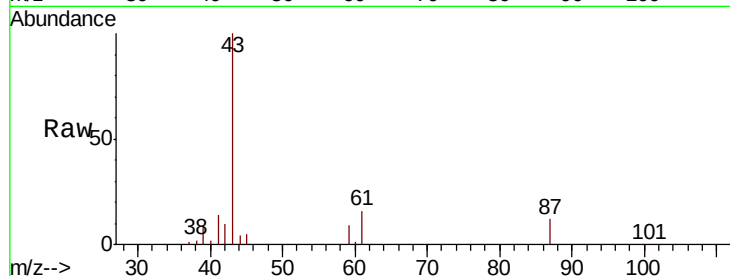
Tot Ion: 43 Resp: 82851

Ion Ratio Lower Upper

43 100

61 15.5 19.1 28.7#

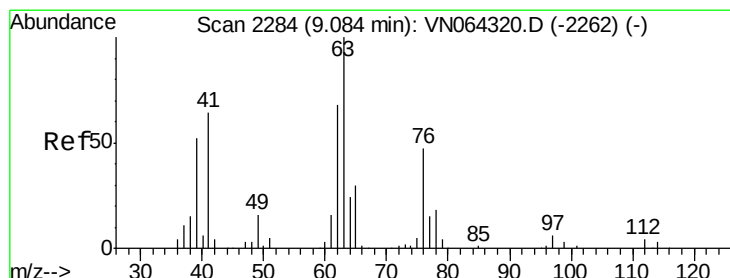
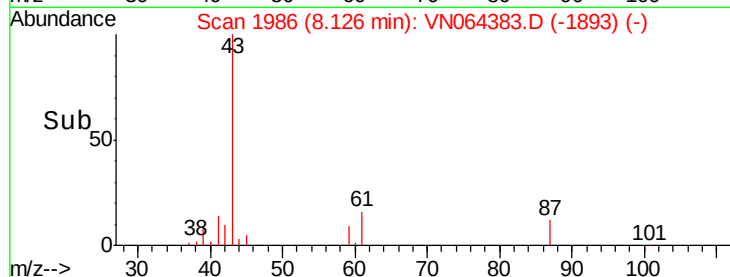
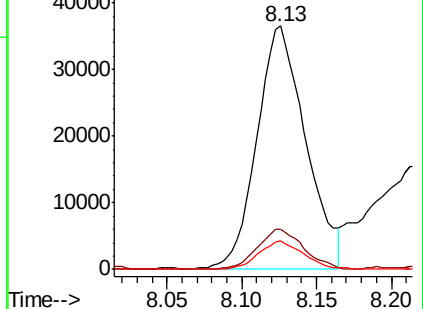
87 10.6 9.3 13.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.423 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN064383.D

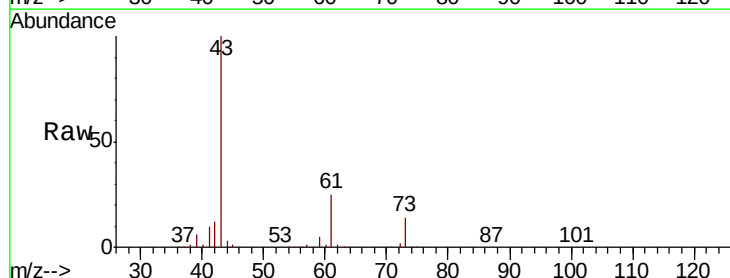
Acq: 29 Oct 2020 18:55

Tgt Ion: 63 Resp: 1287

Ion Ratio Lower Upper

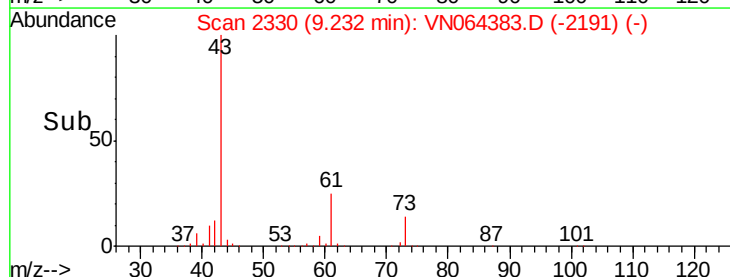
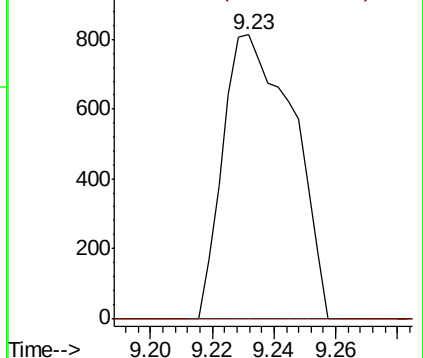
63 100

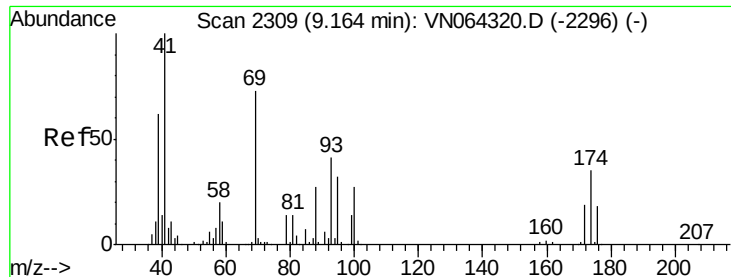
65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

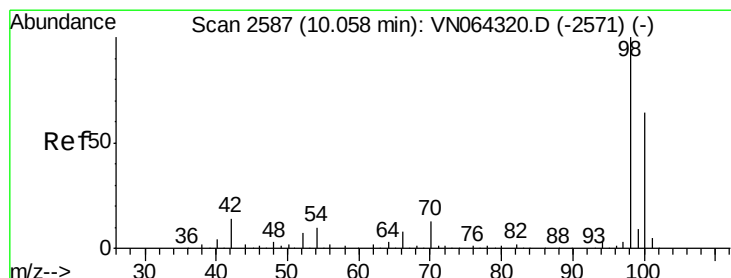
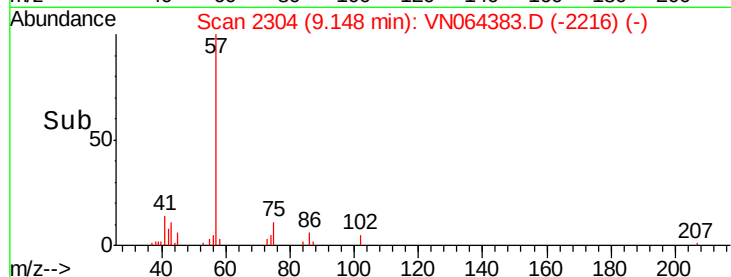
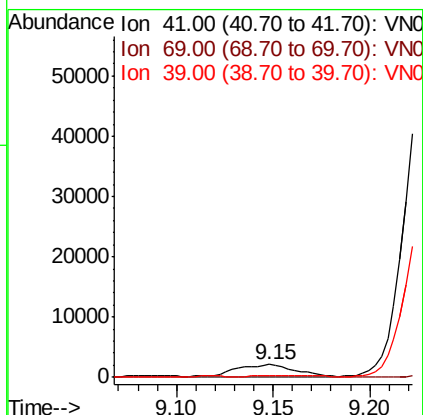
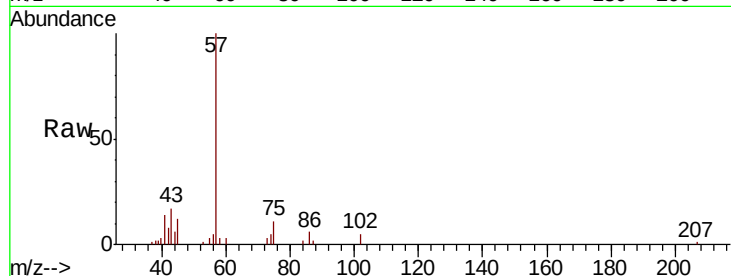




#48
Methvl methacrylate
Concen: 1.299 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN064383.D
Acq: 29 Oct 2020 18:55

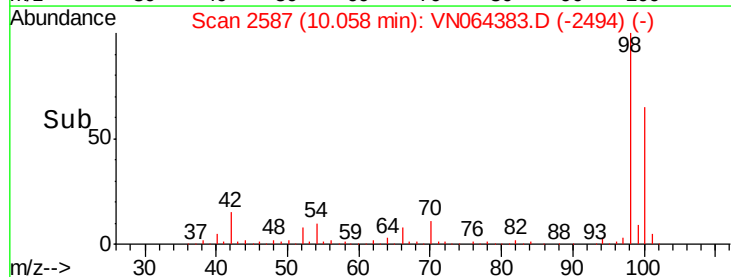
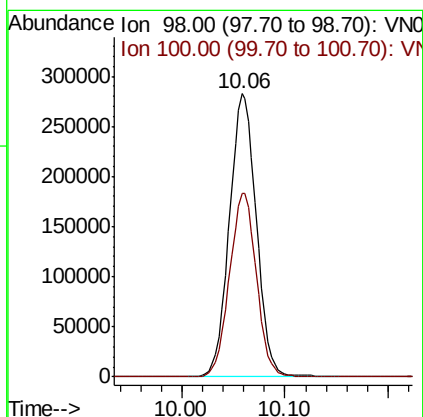
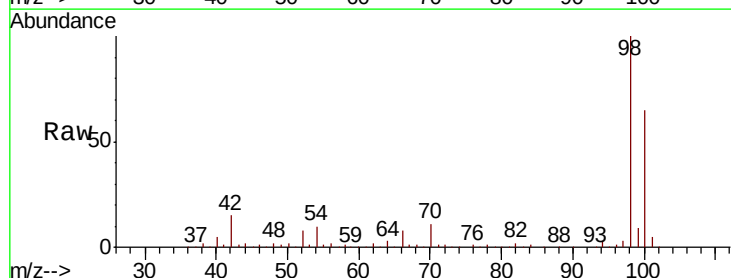
Instrument :
MSVOA_N
ClientSampleId :
HR-01-102820

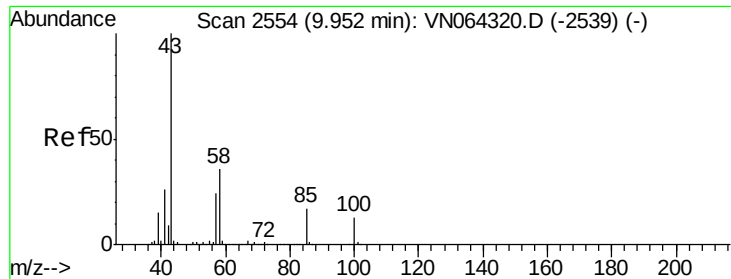
Tot Ion: 41 Resp: 4726
Ion Ratio Lower Upper
41 100
69 0.0 59.1 88.7#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 51.571 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064383.D
Acq: 29 Oct 2020 18:55

Tgt Ion: 98 Resp: 514819
Ion Ratio Lower Upper
98 100
100 64.8 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 1.684 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064383.D

Acq: 29 Oct 2020 18:55

Instrument :

MSVOA_N

ClientSampleId :

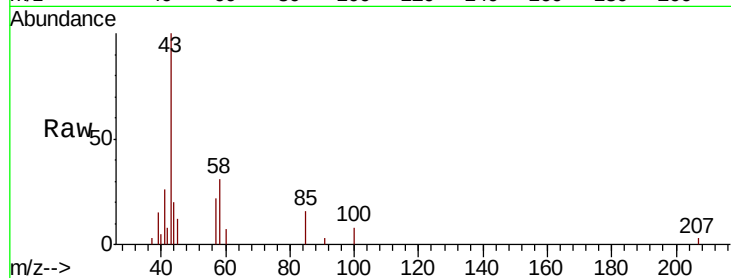
HR-01-102820

Tot Ion: 43 Resp: 6902

Ion Ratio Lower Upper

43 100

58 36.2 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VN064320.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN064320.D (-2539) (-)

25000

20000

15000

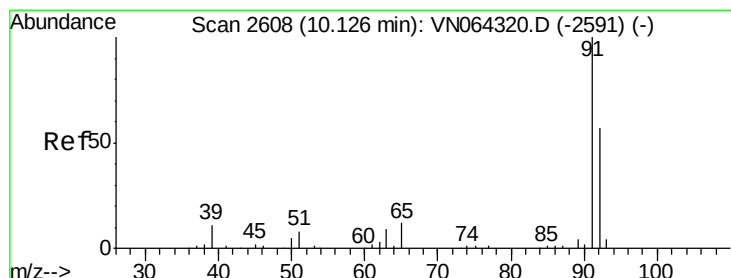
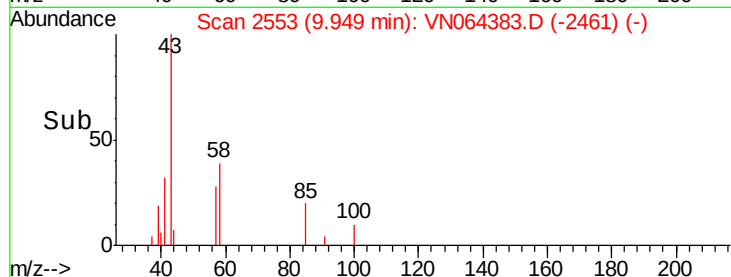
10000

5000

0

9.90 9.95 10.00

Time-->



#52

Toluene

Concen: 0.277 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN064383.D

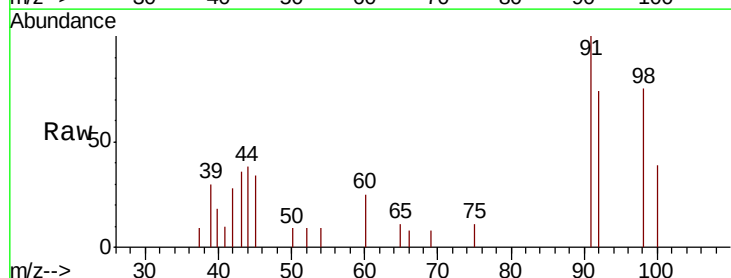
Acq: 29 Oct 2020 18:55

Tgt Ion: 92 Resp: 1988

Ion Ratio Lower Upper

92 100

91 126.7 139.9 209.9#



Abundance Ion 92.00 (91.70 to 92.70): VN064320.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VN064320.D (-2591) (-)

2000

1500

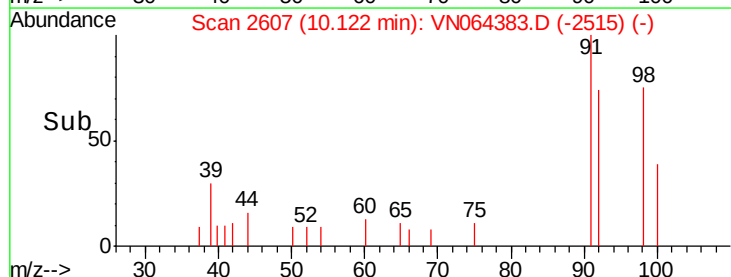
1000

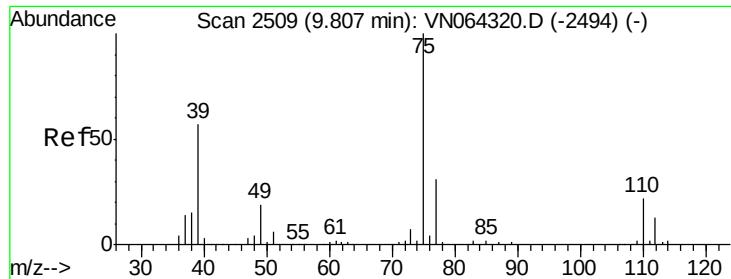
500

0

10.10 10.12 10.15

Time-->

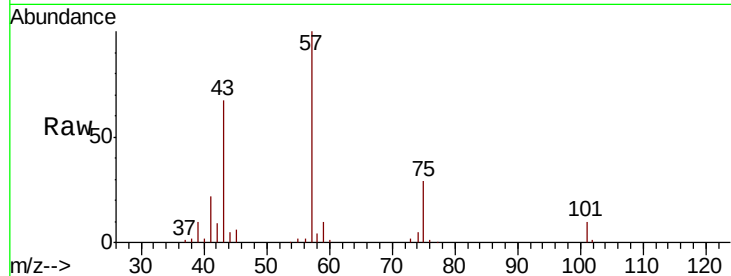




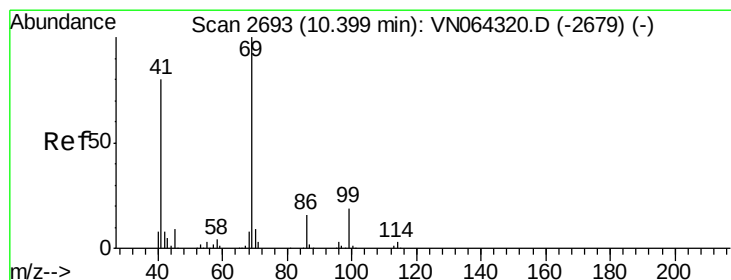
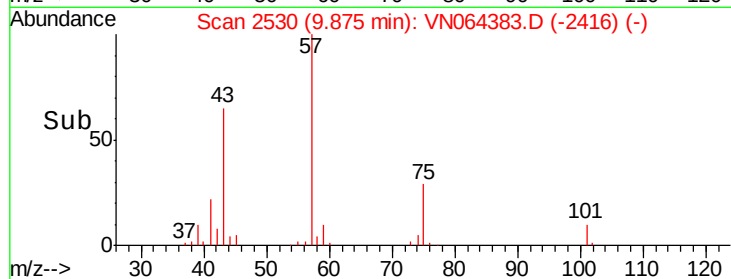
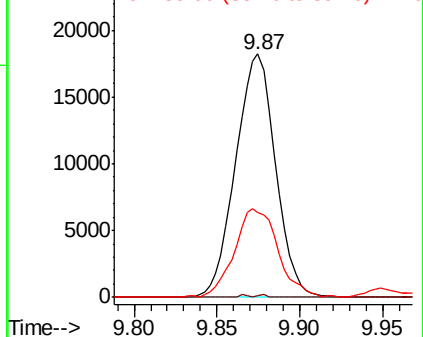
#54
 cis-1,3-Dichloropropene
 Concen: 5.916 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064383.D
 Acq: 29 Oct 2020 18:55

Instrument :
 MSVOA_N
 ClientSampleId :
 HR-01-102820

Tot Ion: 75 Resp: 30394
 Ion Ratio Lower Upper
 75 100
 77 0.9 25.0 37.4#
 39 35.1 45.5 68.3#

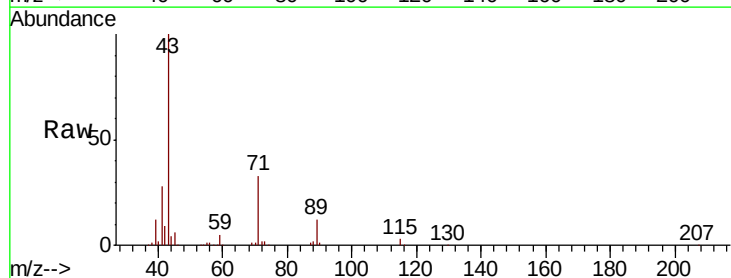


Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO

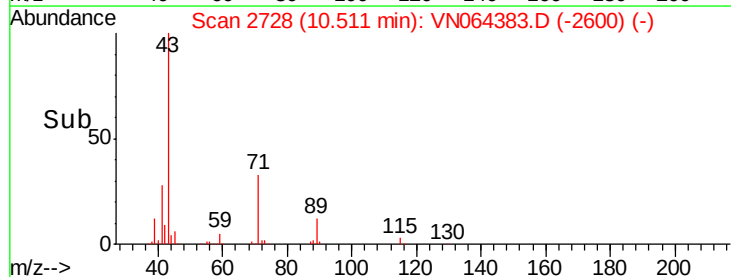
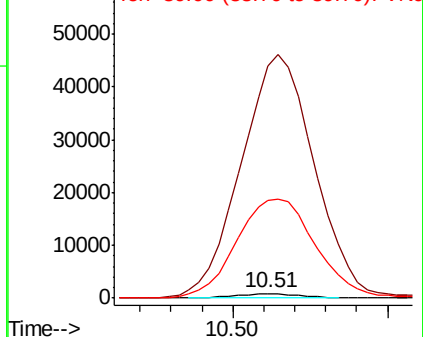


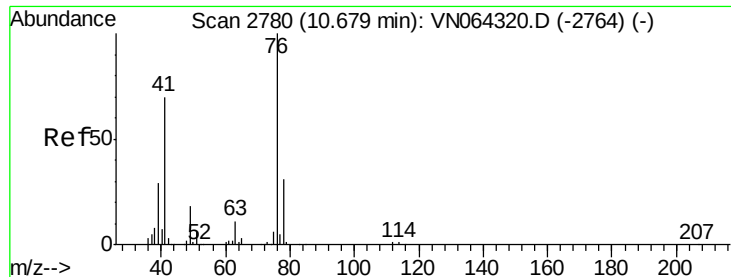
#56
 Ethyl methacrylate
 Concen: 0.275 ug/l
 RT: 10.51 min Scan# 2728
 Delta R.T. 0.11 min
 Lab File: VN064383.D
 Acq: 29 Oct 2020 18:55

Tgt Ion: 69 Resp: 1178
 Ion Ratio Lower Upper
 69 100
 41 6471.4 61.4 92.2#
 39 2839.4 36.5 54.7#



Abundance Ion 69.00 (68.70 to 69.70): VNO
 Ion 41.00 (40.70 to 41.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO





#57

1,3-Dichloropropane

Concen: 0.930 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064383.D

Acq: 29 Oct 2020 18:55

Instrument :

MSVOA_N

ClientSampleId :

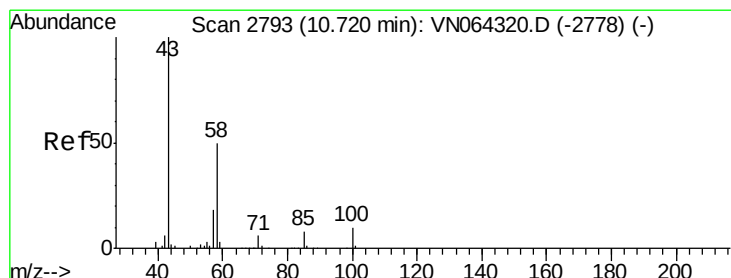
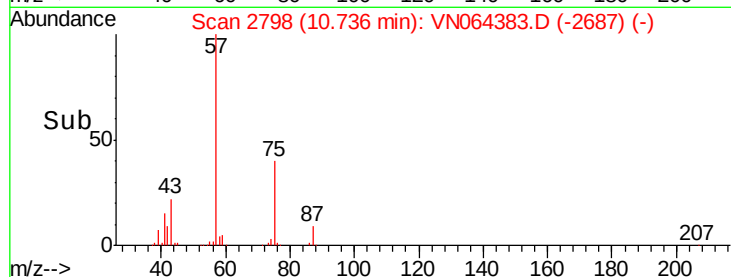
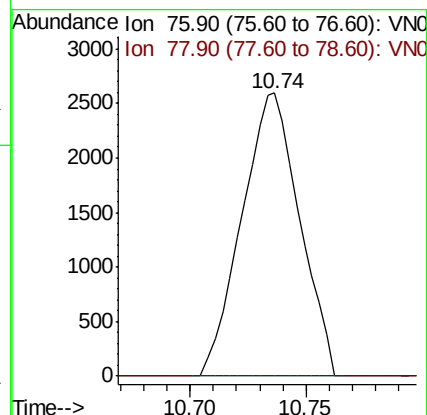
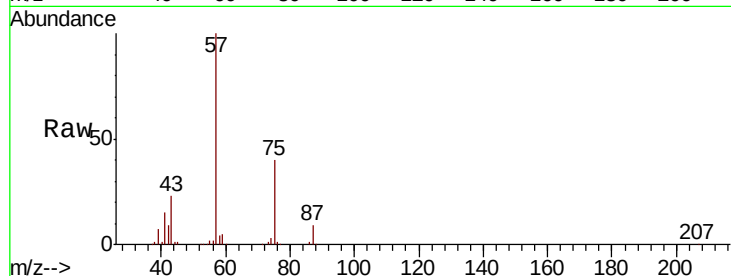
HR-01-102820

Tot Ion: 76 Resp: 4491

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 28.132 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064383.D

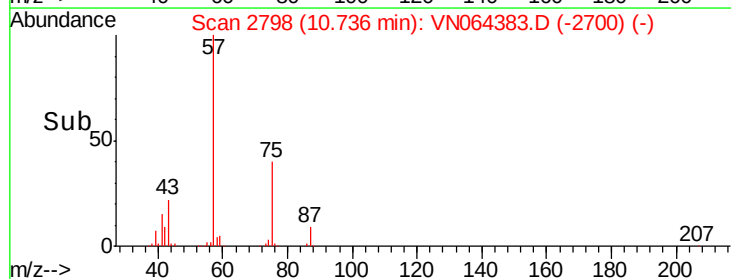
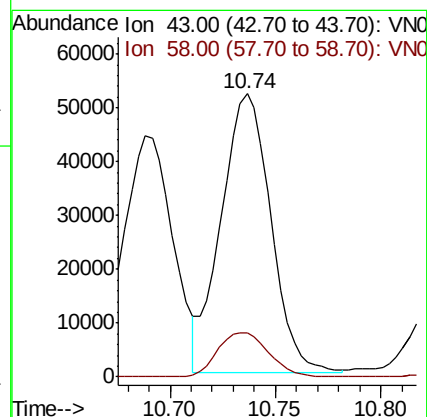
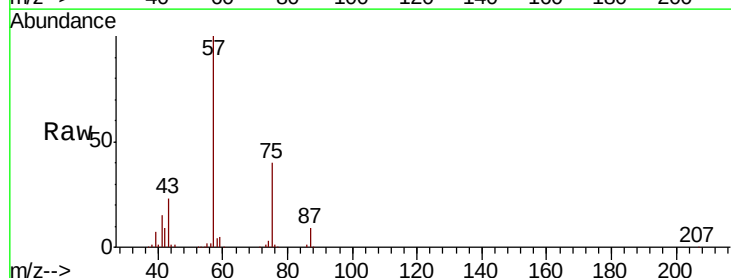
Acq: 29 Oct 2020 18:55

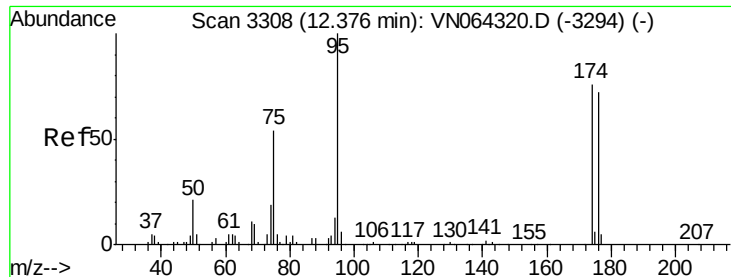
Tgt Ion: 43 Resp: 84938

Ion Ratio Lower Upper

43 100

58 16.3 25.0 75.0#

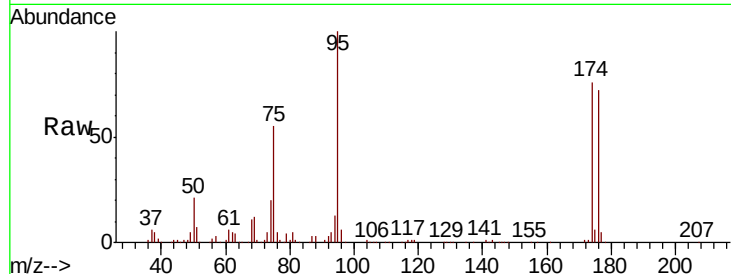




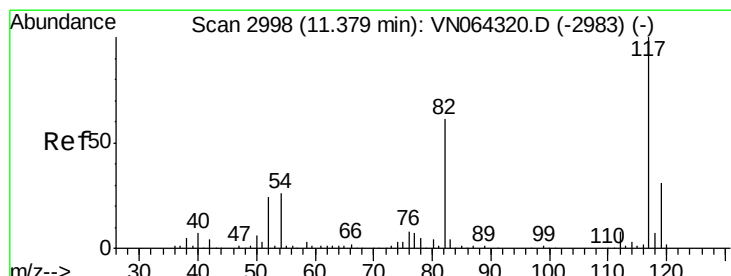
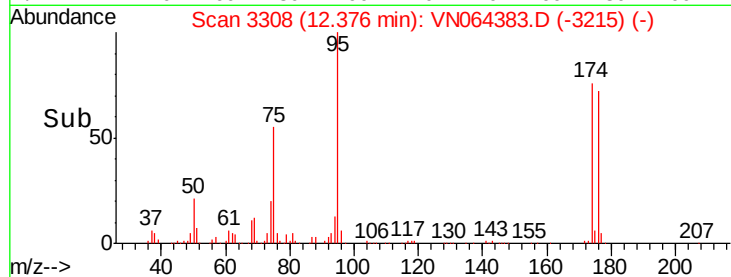
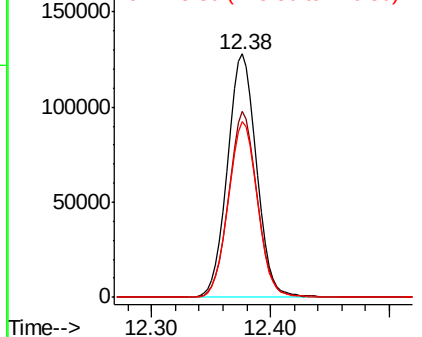
#62
4-Bromofluorobenzene
Concen: 55.705 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064383.D
Acq: 29 Oct 2020 18:55

Instrument :
MSVOA_N
ClientSampleId :
HR-01-102820

Tot Ion: 95 Resp: 216813
Ion Ratio Lower Upper
95 100
174 74.6 0.0 147.4
176 72.3 0.0 143.6

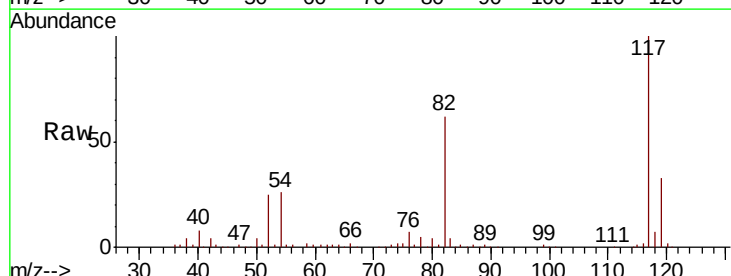


Abundance Ion 94.90 (94.60 to 95.60): VN064320.D (-3294) (-)
Ion 173.80 (173.50 to 174.50): VN064320.D (-3294) (-)
Ion 175.80 (175.50 to 176.50): VN064320.D (-3294) (-)

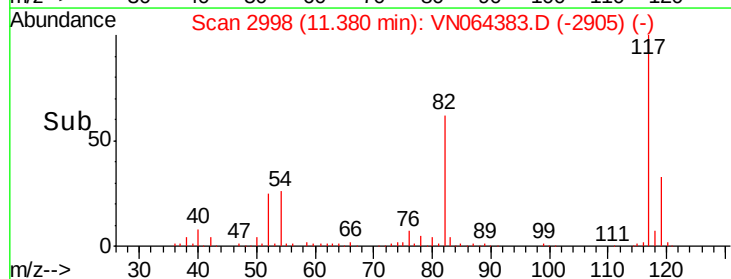
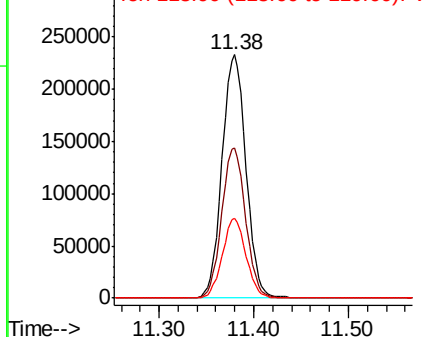


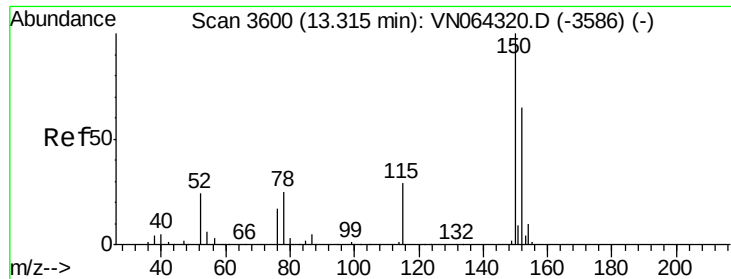
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064383.D
Acq: 29 Oct 2020 18:55

Tgt Ion: 117 Resp: 410149
Ion Ratio Lower Upper
117 100
82 61.9 48.8 73.2
119 32.9 25.1 37.7



Abundance Ion 116.90 (116.60 to 117.60): VN064320.D (-2983) (-)
Ion 82.00 (81.70 to 82.70): VN064320.D (-2983) (-)
Ion 118.90 (118.60 to 119.60): VN064320.D (-2983) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064383.D

Acq: 29 Oct 2020 18:55

Instrument :

MSVOA_N

ClientSampleId :

HR-01-102820

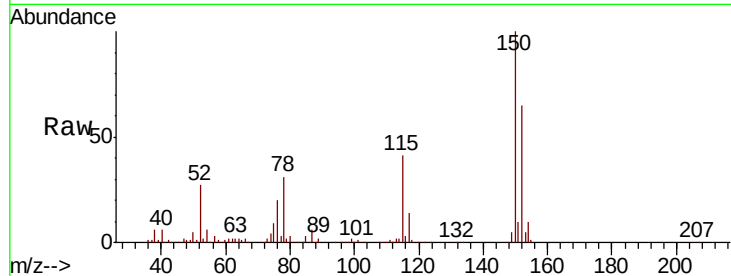
Tot Ion:152 Resp: 174977

Ion Ratio Lower Upper

152 100

115 63.2 31.5 94.5

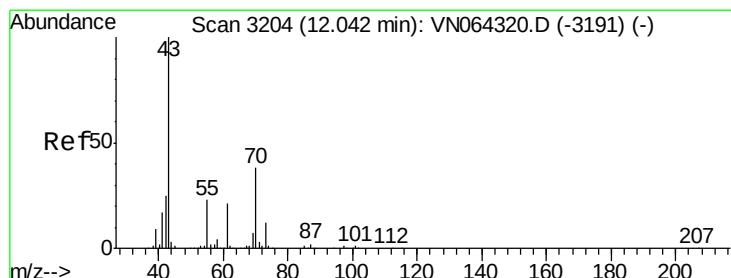
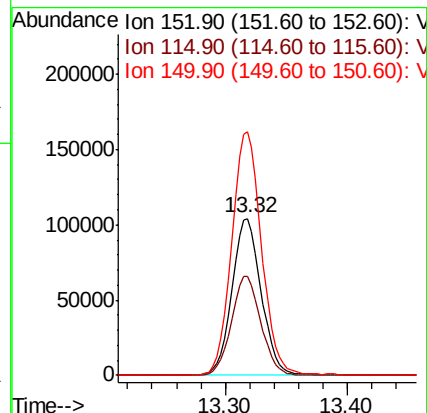
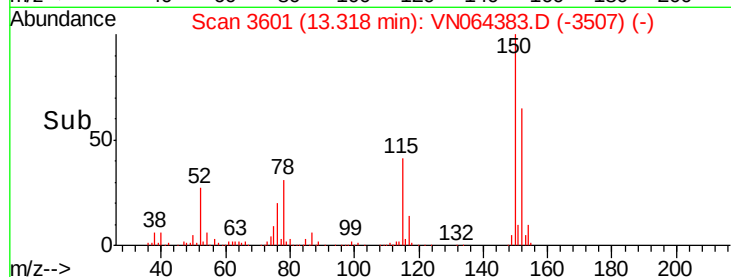
150 157.5 0.0 346.2



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: 0.376 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN064383.D

Acq: 29 Oct 2020 18:55

Tgt Ion: 43 Resp: 2168

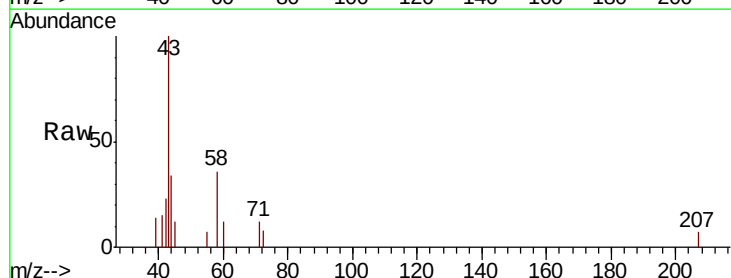
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 2.8 18.2 27.4#

61 0.0 17.6 26.4#

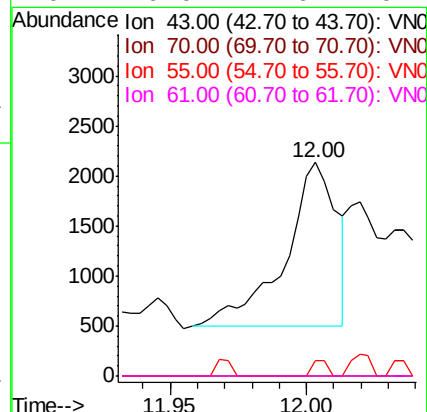
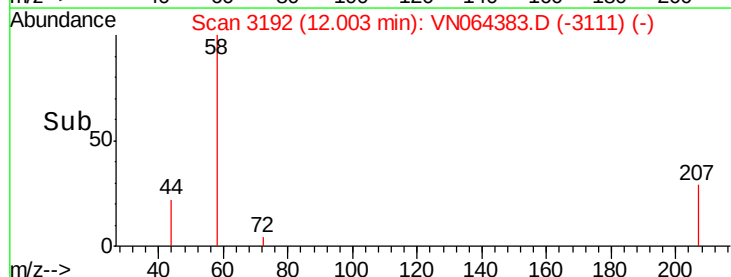


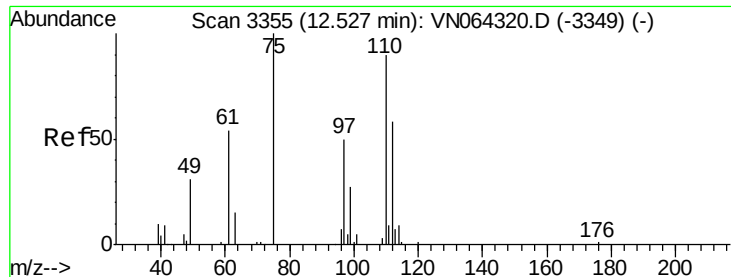
Abundance Ion 43.00 (42.70 to 43.70): V

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: 28.799 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064383.D

Acq: 29 Oct 2020 18:55

Instrument :

MSVOA_N

ClientSampleId :

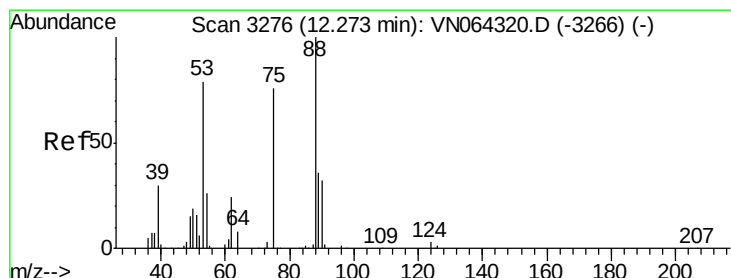
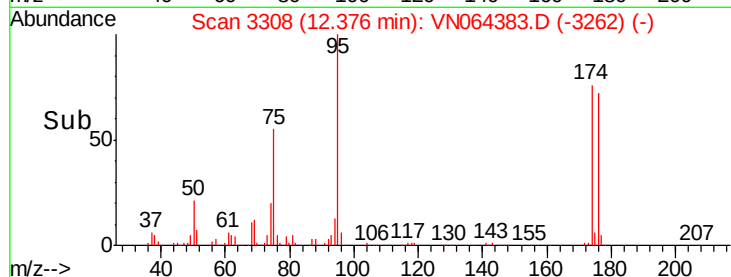
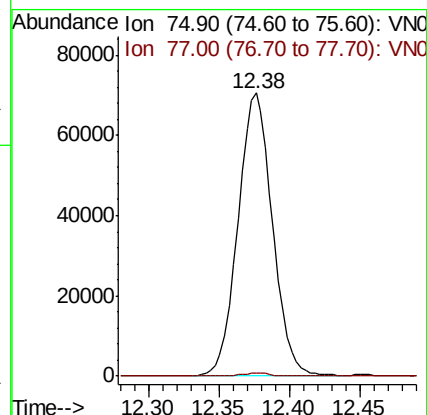
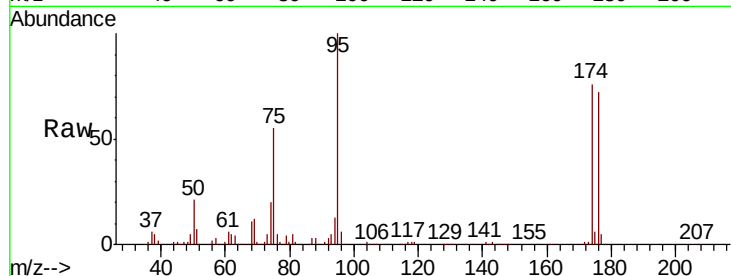
HR-01-102820

Tot Ion: 75 Resp: 120675

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 82.957 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064383.D

Acq: 29 Oct 2020 18:55

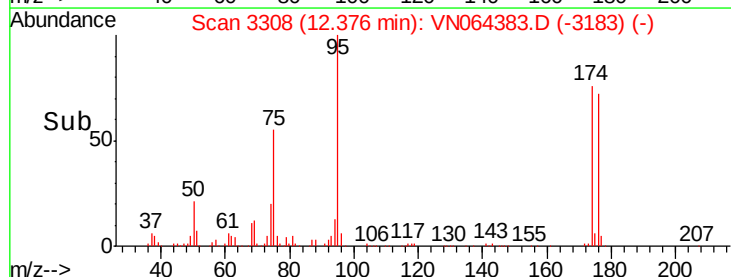
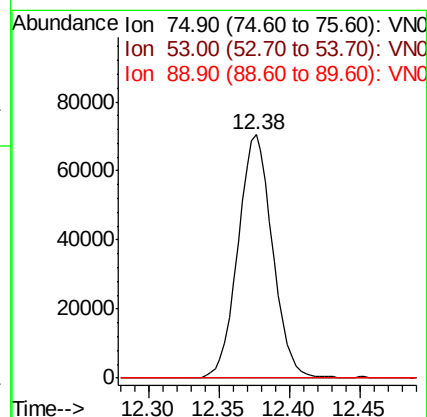
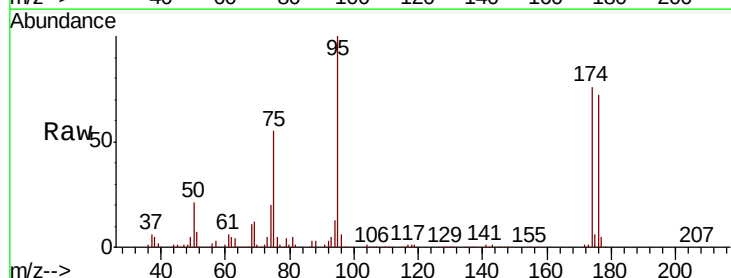
Tgt Ion: 75 Resp: 120675

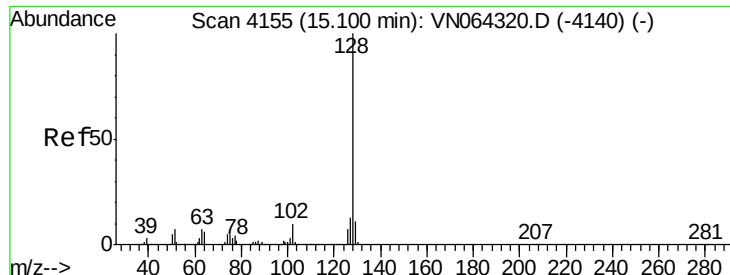
Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

89 0.0 39.9 59.9#

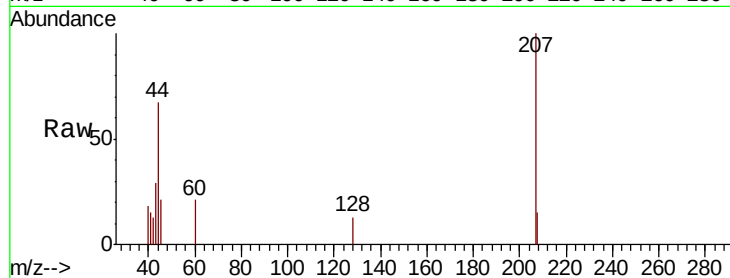




#95
Naphthalene
Concen: 2.399 ug/l
RT: 15.12 min Scan# 4162
Delta R.T. 0.02 min
Lab File: VN064383.D
Acq: 29 Oct 2020 18:55

Instrument :
MSVOA_N
ClientSampleId :
HR-01-102820

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.6	13.0#



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

