

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063852.D
 Acq On : 3 Oct 2020 4:44
 Operator : JC/MD
 Sample : L4198-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-20

Quant Time: Oct 05 04:25:30 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	7.62	168	208437	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	401366	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	414874	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	163639	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	189205	54.95	ug/l	0.00
Spiked Amount			Recovery	=	109.90%	
35) Dibromofluoromethane	7.55	113	134579	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
50) Toluene-d8	10.06	98	509013	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
62) 4-Bromofluorobenzene	12.38	95	198539	50.03	ug/l	0.00
Spiked Amount			Recovery	=	100.06%	

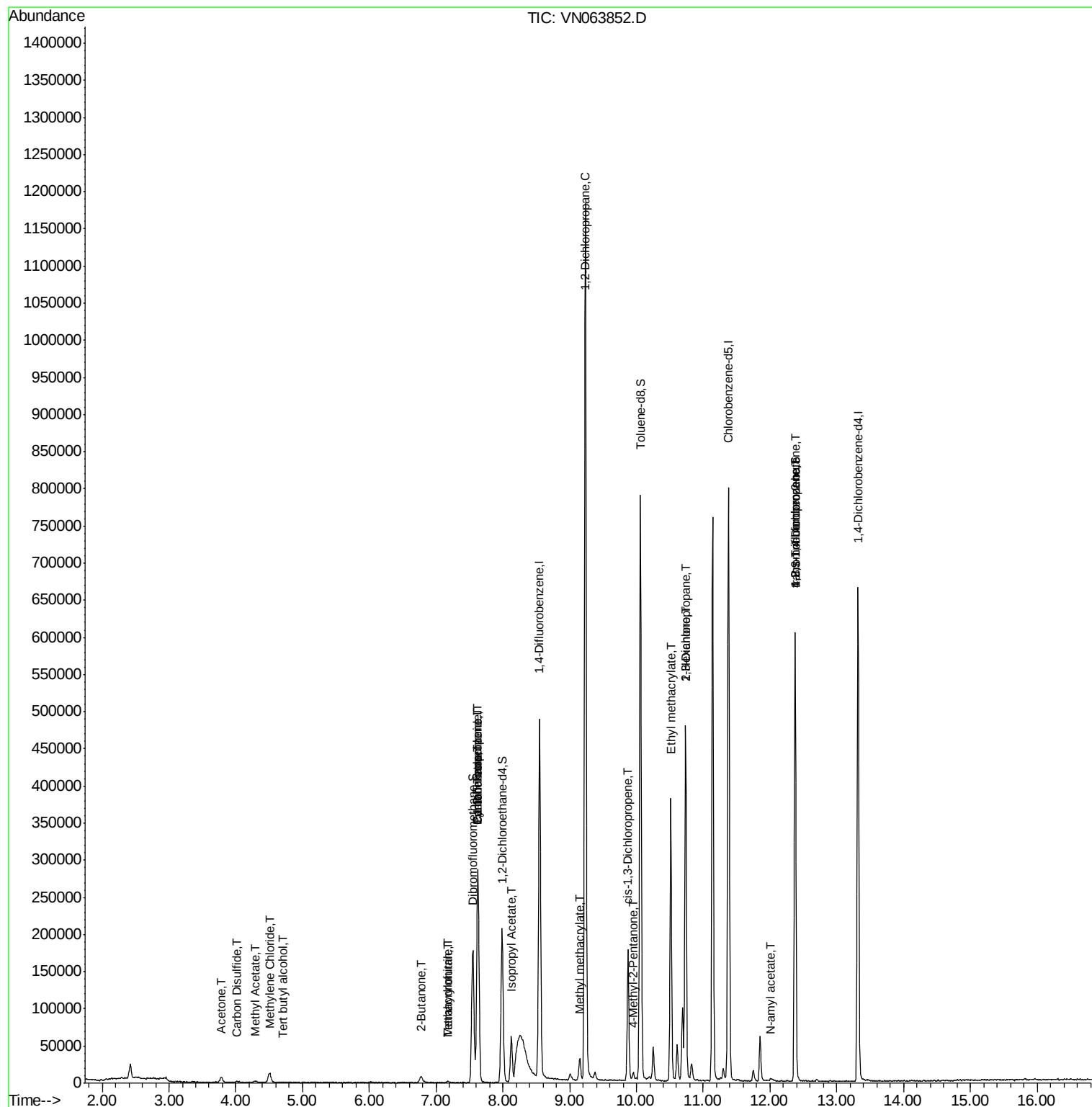
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	119	0.313	ug/l #	71
16) Acetone	3.78	43	12248	11.554	ug/l	97
17) Carbon Disulfide	4.02	76	29	0.706	ug/l #	76
18) Methyl Acetate	4.28	43	3888	1.413	ug/l #	73
20) Methylene Chloride	4.50	84	9675	4.075	ug/l #	87
25) 2-Butanone	6.78	43	954	0.635	ug/l #	51
29) Tetrahydrofuran	7.16	42	864	0.857	ug/l #	71
31) Cyclohexane	7.62	56	5847	1.463	ug/l #	33
36) 1,1-Dichloropropene	7.62	75	18983	4.668	ug/l #	52
38) Carbon Tetrachloride	7.63	117	22850	5.011	ug/l #	16
41) Methacrylonitrile	7.17	41	566	0.315	ug/l #	34
43) Isopropyl Acetate	8.13	43	72088	10.818	ug/l	98
45) 1,2-Dichloropropane	9.24	63	1266	0.404	ug/l #	44
48) Methyl methacrylate	9.15	41	4239	1.288	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	6896	1.763	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	28287	5.658	ug/l #	66
56) Ethyl methacrylate	10.51	69	1783	0.437	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4247	0.871	ug/l #	43
59) 2-Hexanone	10.74	43	76032	26.173	ug/l #	54
74) N-amyl acetate	12.01	43	2095	2.577	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	111093	30.797	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	111093	88.701	ug/l #	6

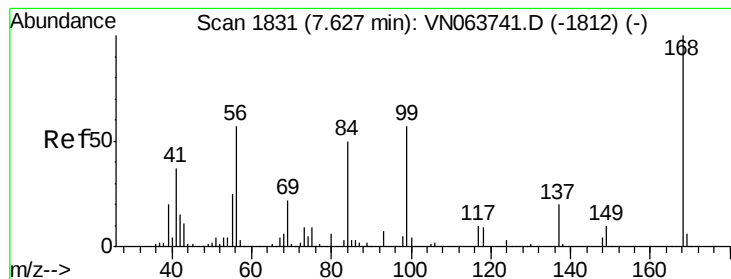
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 05 04:25:30 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 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: VN063852.D

Acq: 3 Oct 2020 4:44

Instrument :

MSVOA_N

ClientSampled :

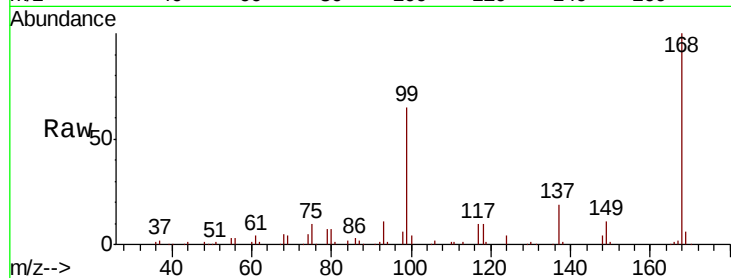
RO-20

Tot Ion:168 Resp: 208437

Ion Ratio Lower Upper

168 100

99 65.3 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

80000

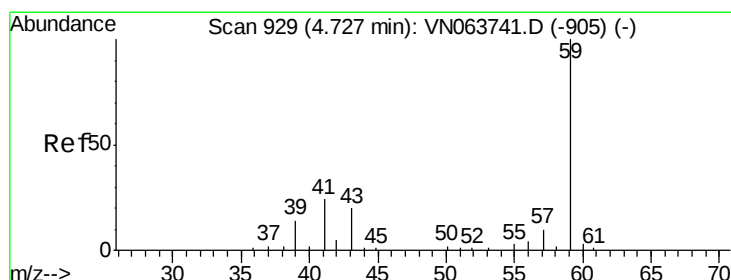
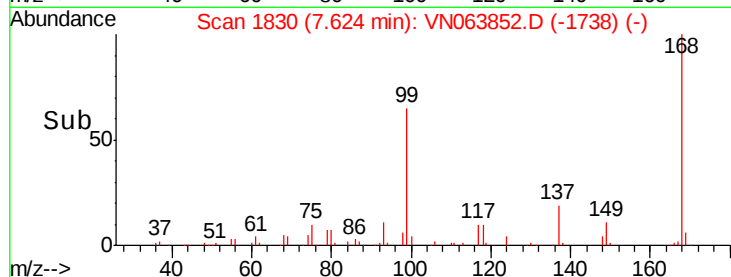
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.313 ug/l

RT: 4.70 min Scan# 921

Delta R.T. -0.03 min

Lab File: VN063852.D

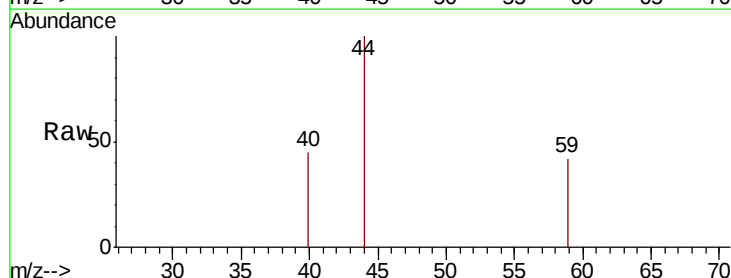
Acq: 3 Oct 2020 4:44

Tgt Ion: 59 Resp: 119

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

4.70

250

200

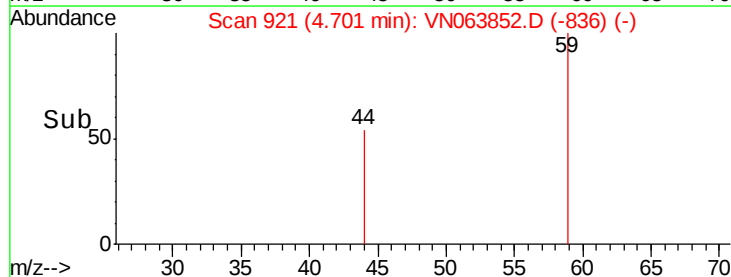
150

100

50

0

Time--> 4.69 4.70 4.71





#16

Acetone

Concen: 11.554 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063852.D

Acq: 3 Oct 2020 4:44

Instrument :

MSVOA_N

ClientSampleId :

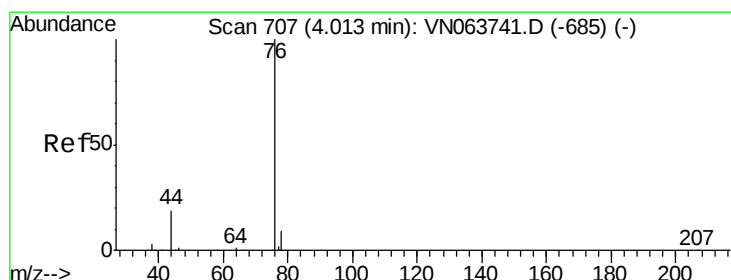
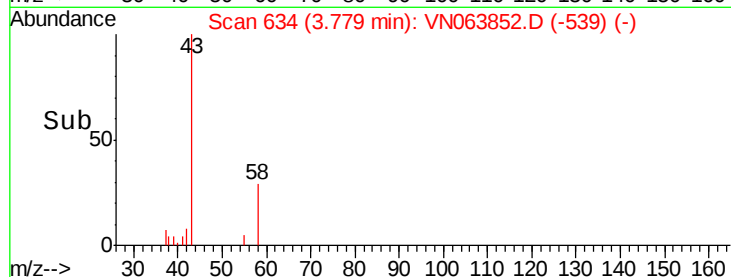
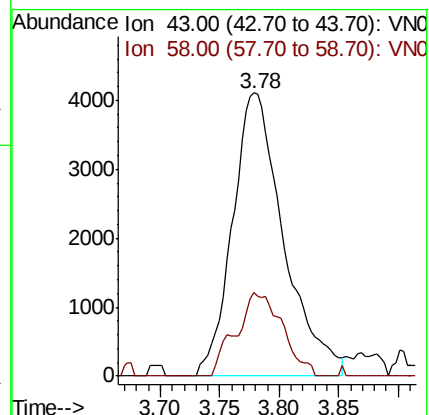
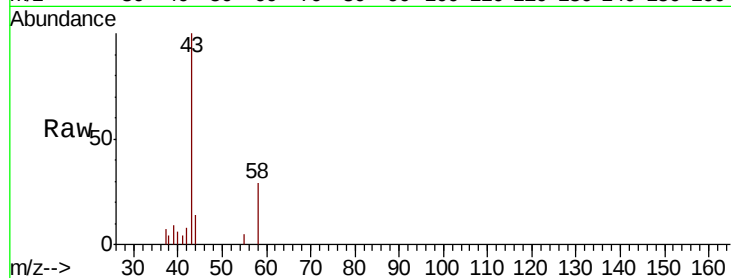
RO-20

Tot Ion: 43.00 Resp: 12248

Ion Ratio Lower Upper

43 100

58 29.5 22.3 33.5



#17

Carbon Disulfide

Concen: 0.706 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN063852.D

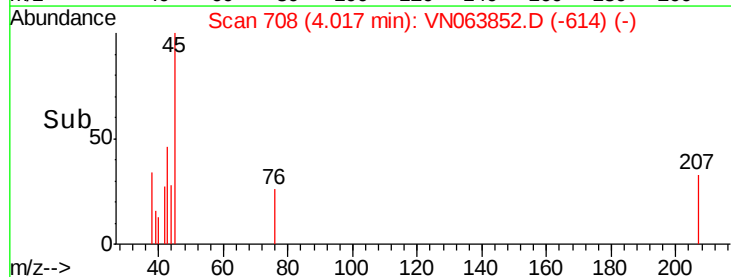
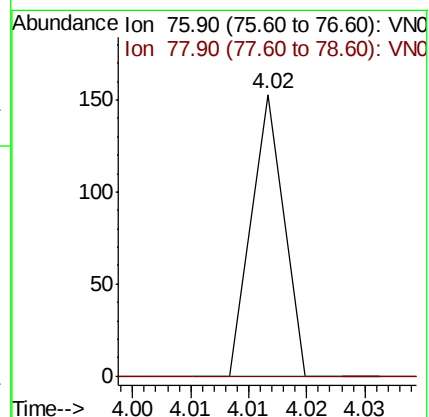
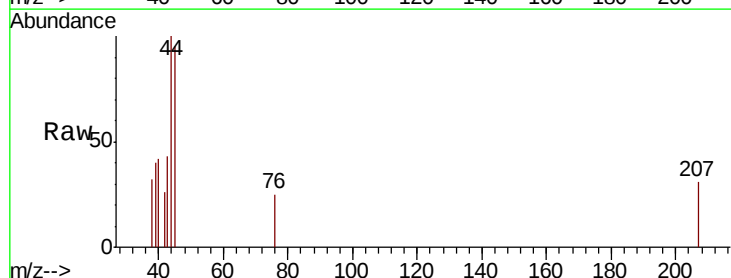
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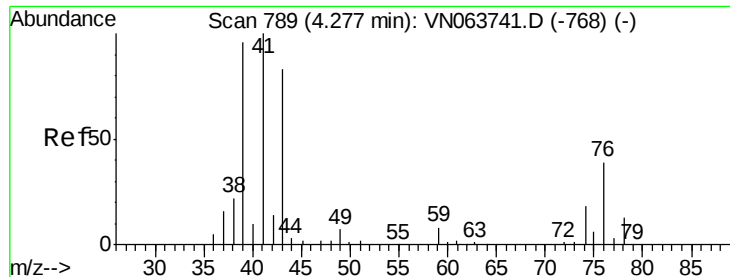
Tgt Ion: 76 Resp: 29

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#

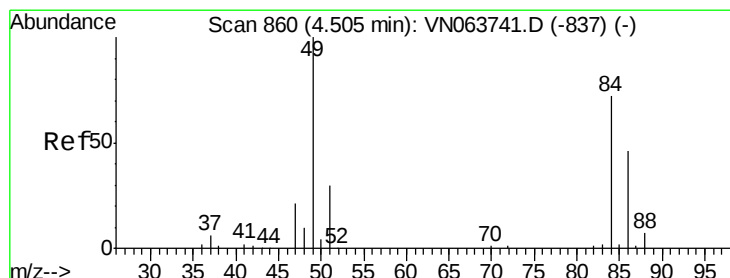
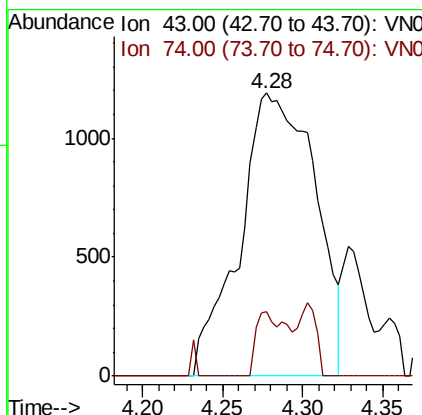
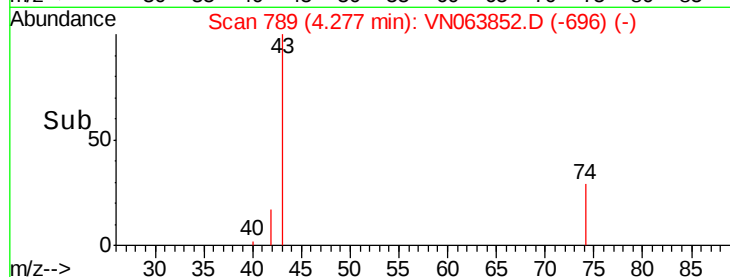
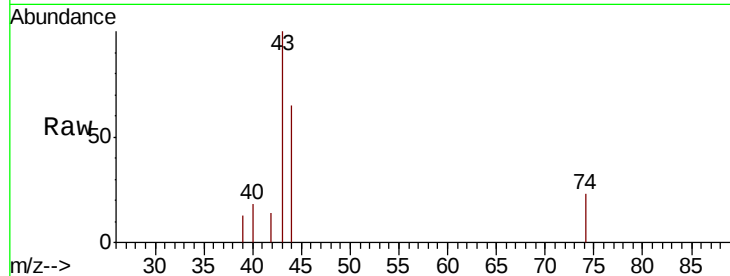




#18
Methyl Acetate
Concen: 1.413 ug/l
RT: 4.28 min Scan# 789
Delta R.T. 0.00 min
Lab File: VN063852.D
Acq: 3 Oct 2020 4:44

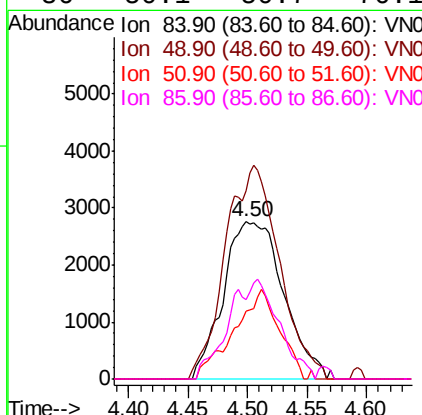
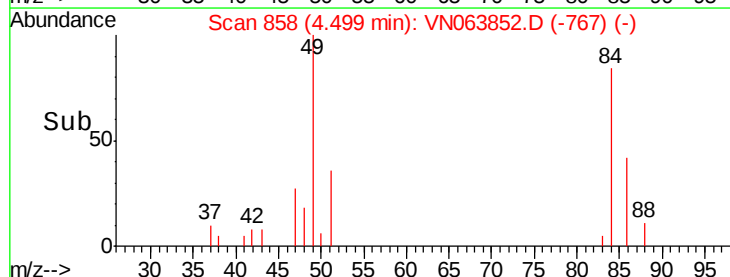
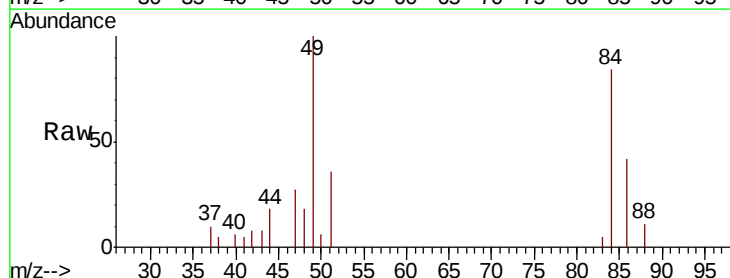
Instrument :
MSVOA_N
ClientSampled :
RO-20

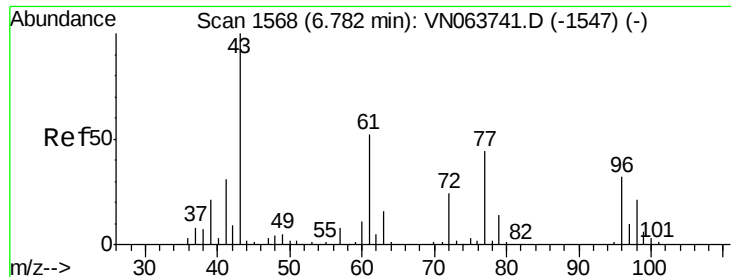
Tot Ion: 43 Resp: 3888
Ion Ratio Lower Upper
43 100
74 8.9 17.4 26.2#



#20
Methylene Chloride
Concen: 4.075 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.01 min
Lab File: VN063852.D
Acq: 3 Oct 2020 4:44

Tgt Ion: 84 Resp: 9675
Ion Ratio Lower Upper
84 100
49 119.7 110.4 165.6
51 43.1 33.3 49.9
86 50.1 50.7 76.1#

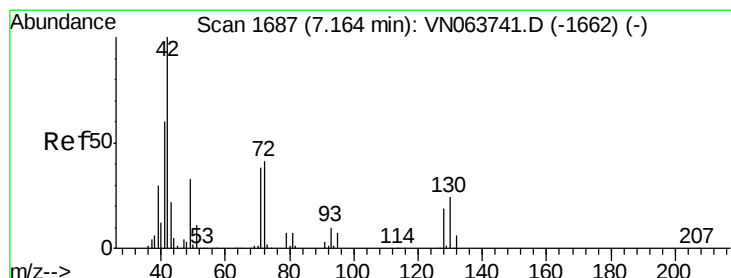
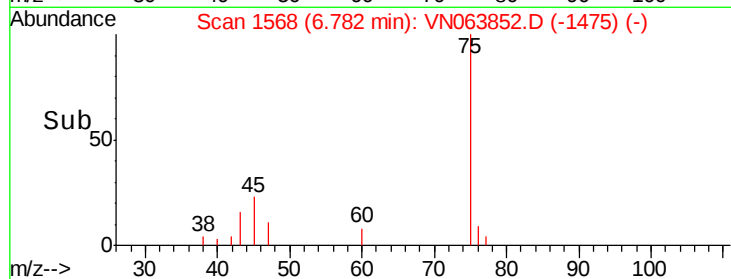
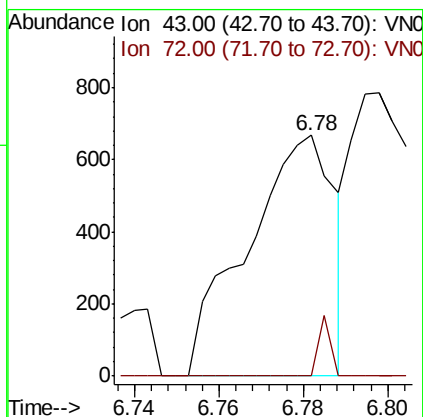
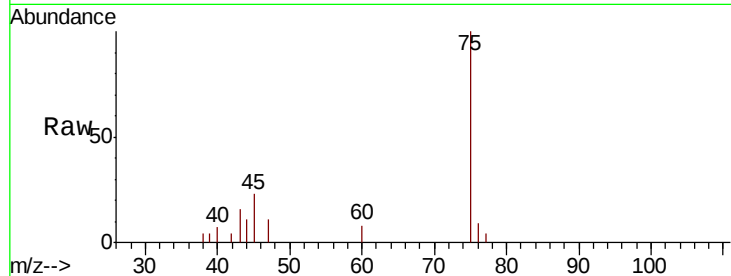




#25
2-Butanone
Concen: 0.635 ug/l
RT: 6.78 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VN063852.D
Acq: 3 Oct 2020 4:44

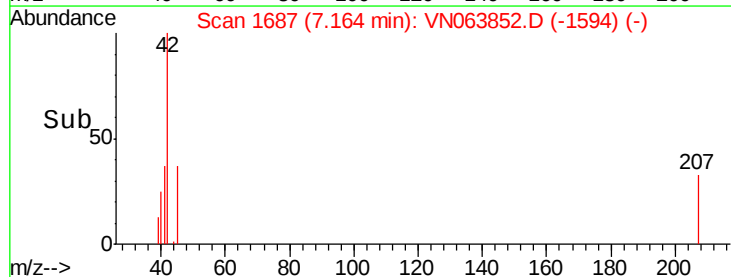
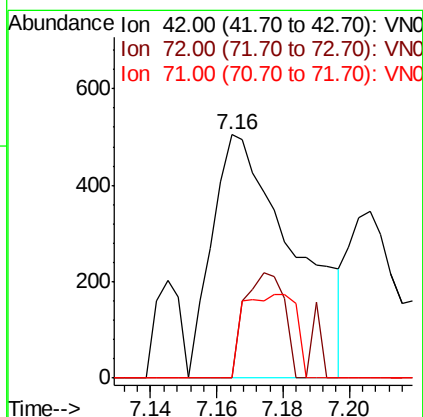
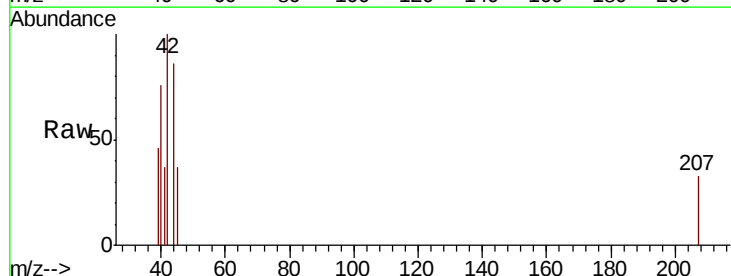
Instrument :
MSVOA_N
ClientSampled :
RO-20

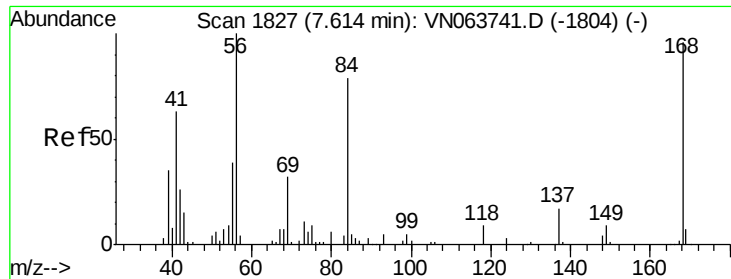
Tot Ion: 43 Resp: 954
Ion Ratio Lower Upper
43 100
72 0.0 19.3 28.9#



#29
Tetrahydrofuran
Concen: 0.857 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN063852.D
Acq: 3 Oct 2020 4:44

Tgt Ion: 42 Resp: 864
Ion Ratio Lower Upper
42 100
72 21.1 32.8 49.2#
71 22.0 30.6 45.8#

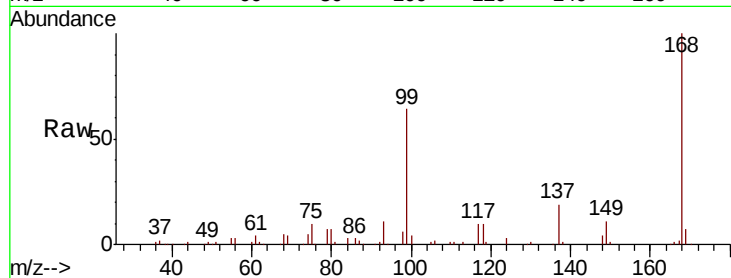




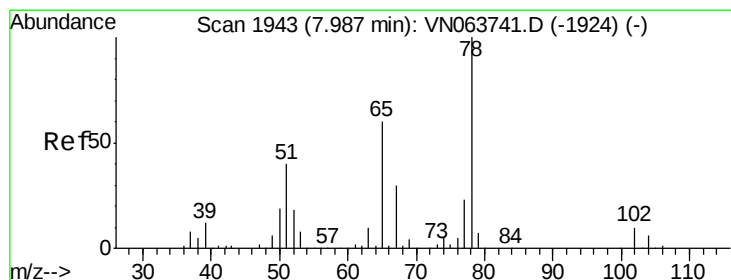
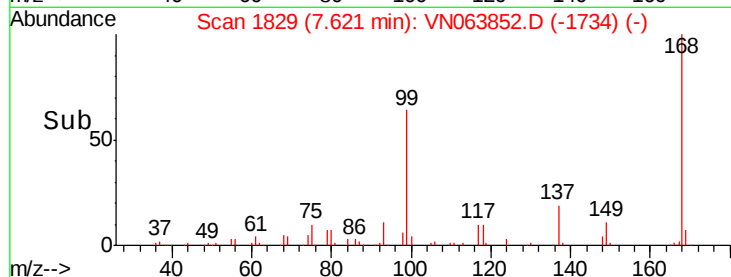
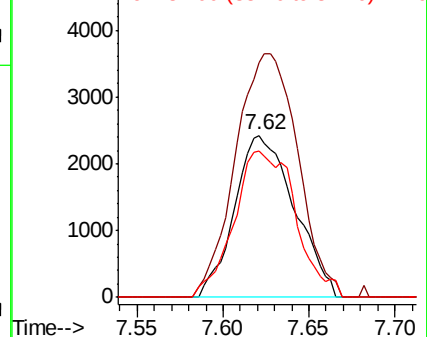
#31
Cyclohexane
Concen: 1.463 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN063852.D
Acq: 3 Oct 2020 4:44

Instrument :
MSVOA_N
ClientSampled :
RO-20

Tot Ion: 56 Resp: 5847
Ion Ratio Lower Upper
56 100
69 144.6 25.4 38.2#
84 89.9 63.3 94.9

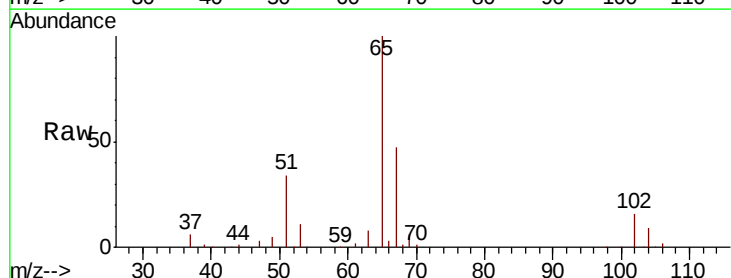


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

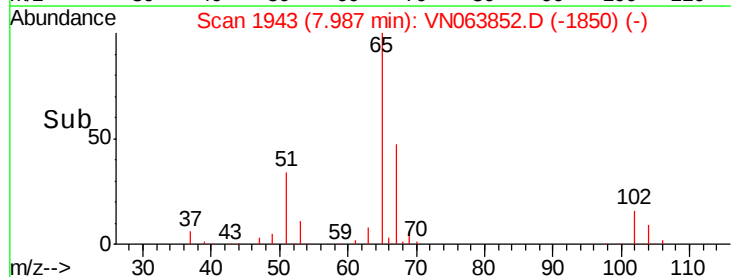
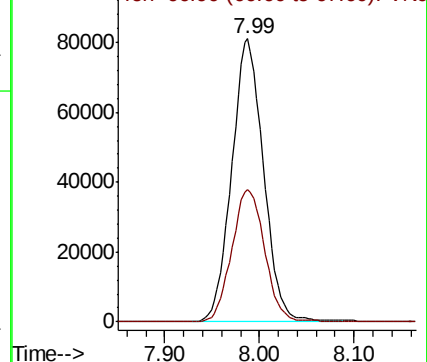


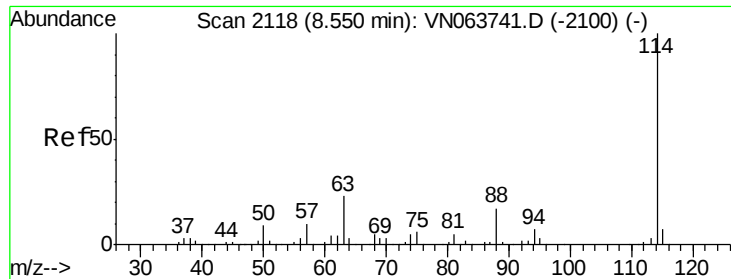
#33
1,2-Dichloroethane-d4
Concen: 54.945 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063852.D
Acq: 3 Oct 2020 4:44

Tgt Ion: 65 Resp: 189205
Ion Ratio Lower Upper
65 100
67 48.1 0.0 99.6



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

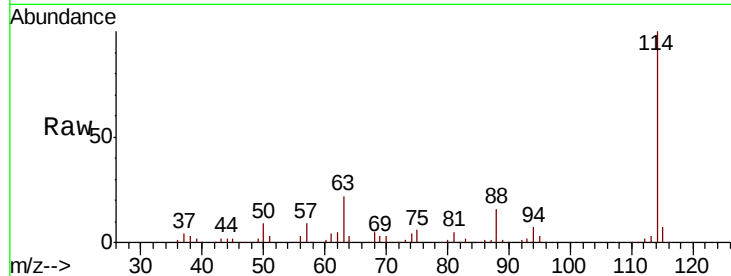




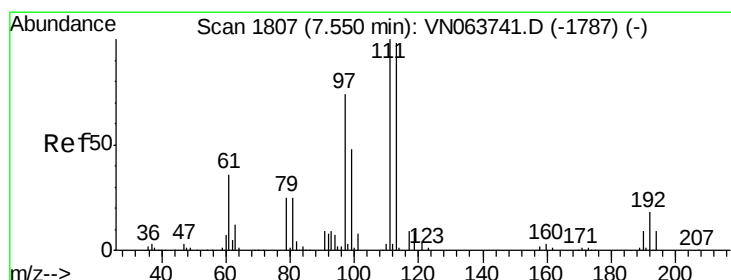
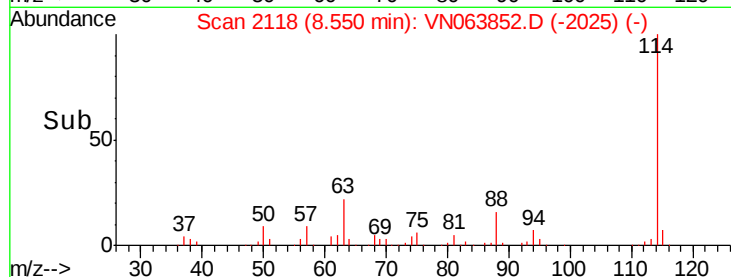
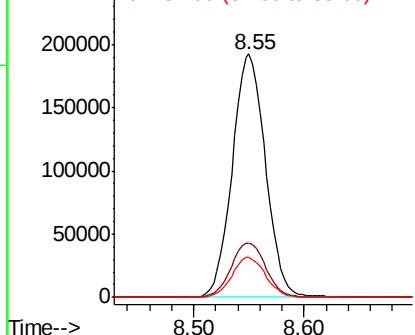
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN063852.D
Acq: 3 Oct 2020 4:44

Instrument :
MSVOA_N
ClientSampleId :
RO-20

Tot Ion:114 Resp: 401366
Ion Ratio Lower Upper
114 100
63 22.2 0.0 45.0
88 16.4 0.0 34.0

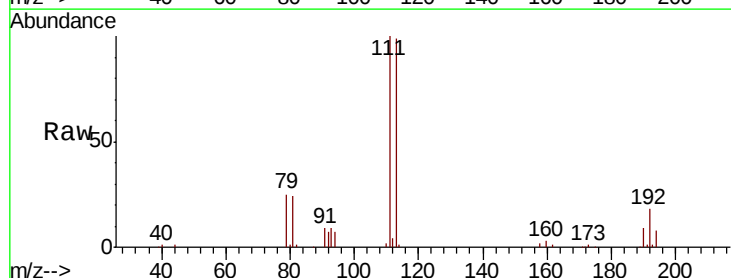


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

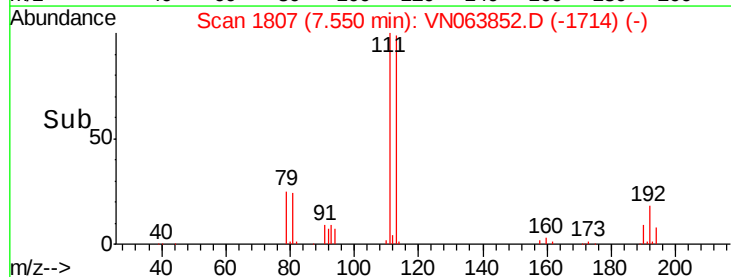
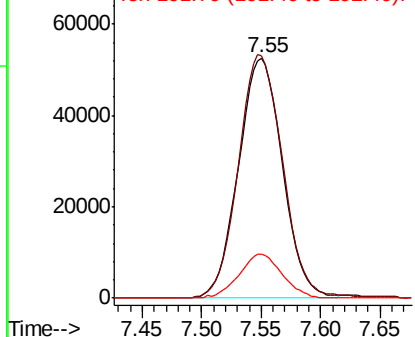


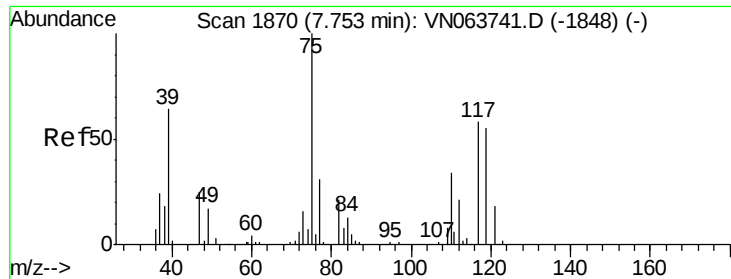
#35
Dibromofluoromethane
Concen: 48.323 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063852.D
Acq: 3 Oct 2020 4:44

Tgt Ion:113 Resp: 134579
Ion Ratio Lower Upper
113 100
111 102.2 81.8 122.8
192 18.0 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

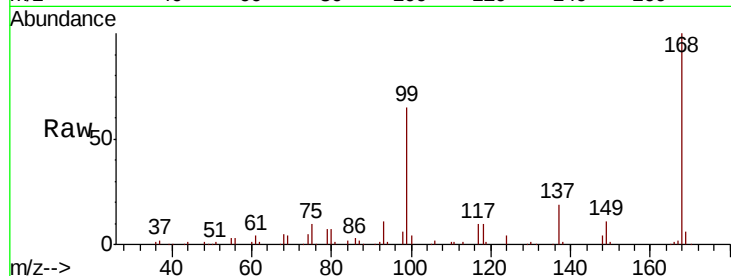




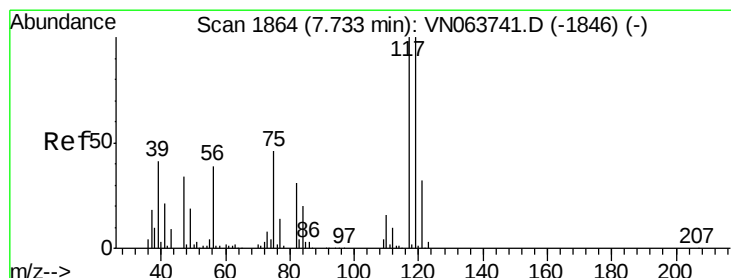
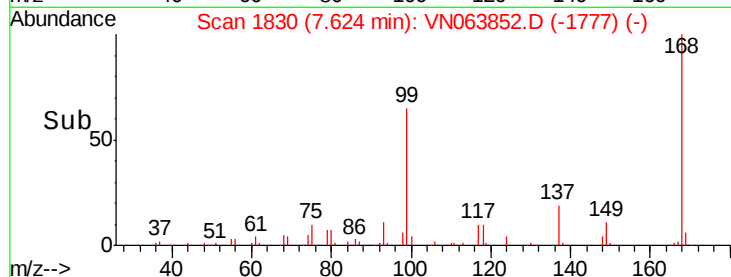
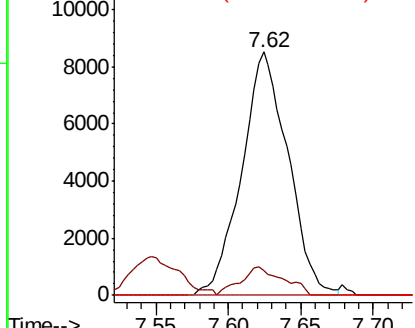
#36
 1,1-Dichloropropene
 Concen: 4.668 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063852.D
 Acq: 3 Oct 2020 4:44

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-20

Tot Ion: 75 Resp: 18983
 Ion Ratio Lower Upper
 75 100
 110 10.7 16.9 50.6#
 77 0.0 24.5 36.7#

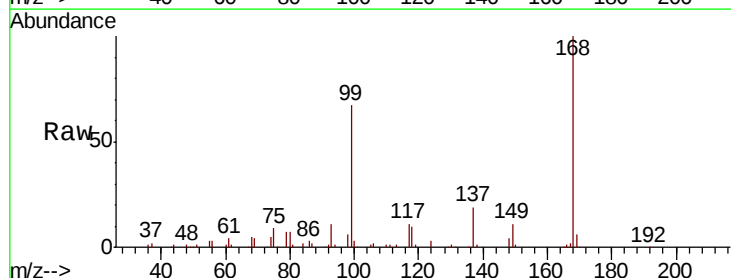


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

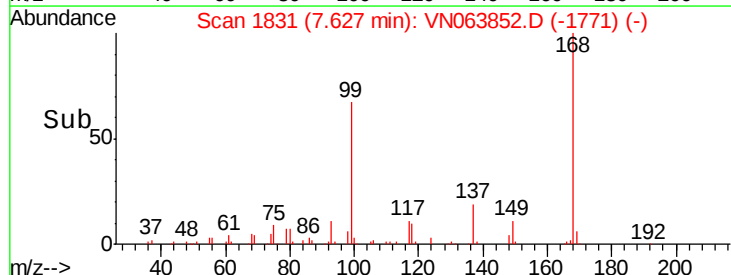
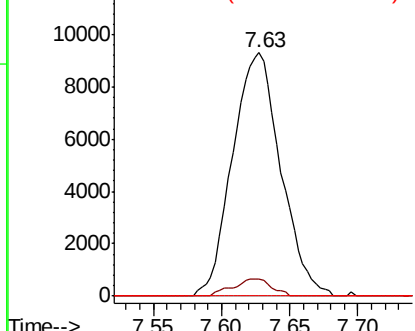


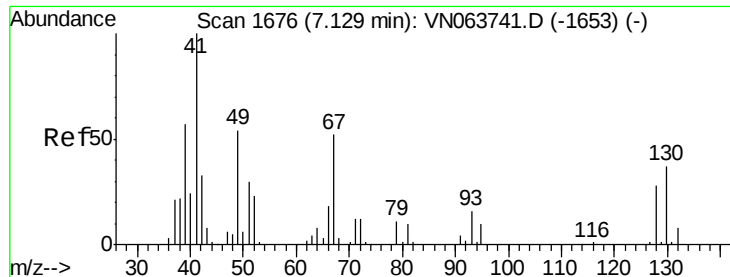
#38
 Carbon Tetrachloride
 Concen: 5.011 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063852.D
 Acq: 3 Oct 2020 4:44

Tgt Ion: 117 Resp: 22850
 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

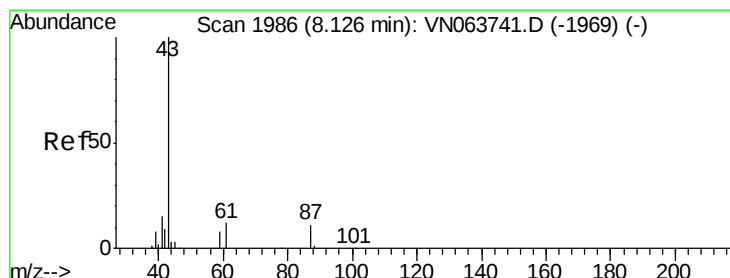
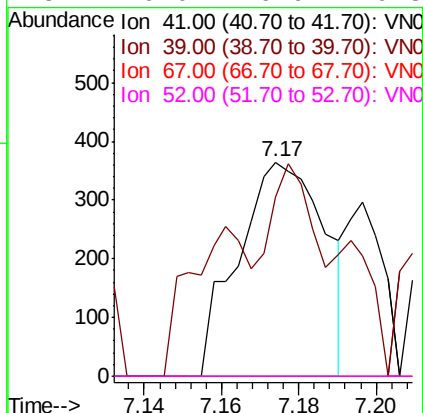
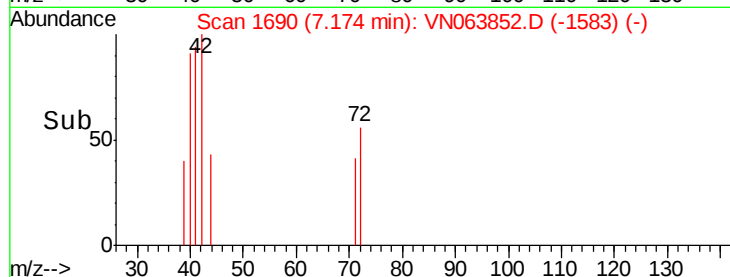
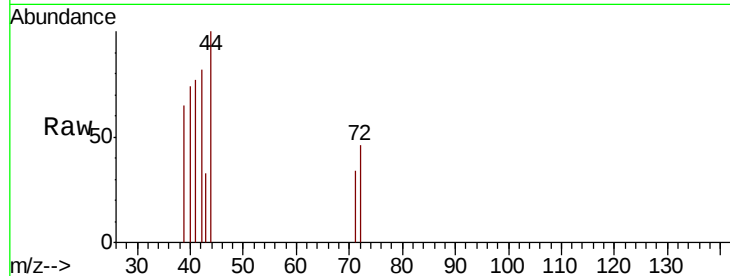




#41
Methacrylonitrile
Concen: 0.315 ug/l
RT: 7.17 min Scan# 1690
Delta R.T. 0.05 min
Lab File: VN063852.D
Acq: 3 Oct 2020 4:44

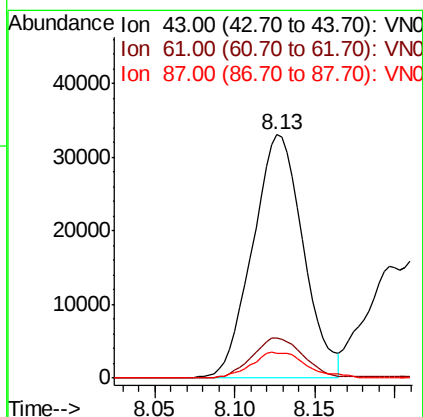
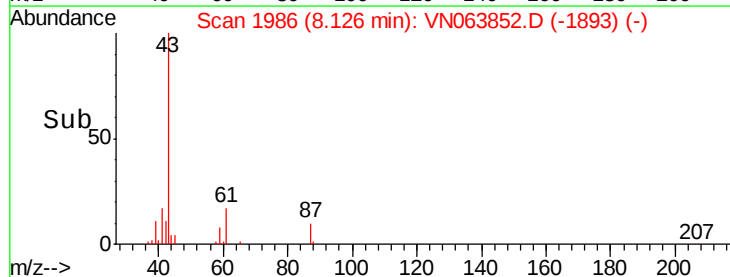
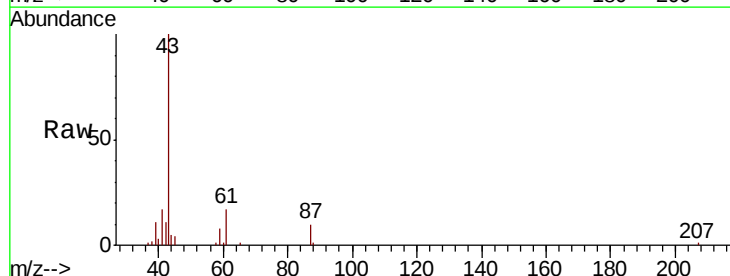
Instrument :
MSVOA_N
ClientSampled :
RO-20

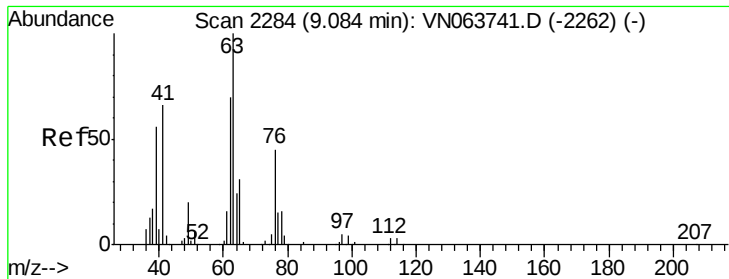
Tot Ion: 41 Resp: 566
Ion Ratio Lower Upper
41 100
39 21.7 42.5 63.7#
67 0.0 57.4 86.2#
52 0.0 26.9 40.3#



#43
Isopropyl Acetate
Concen: 10.818 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN063852.D
Acq: 3 Oct 2020 4:44

Tgt Ion: 43 Resp: 72088
Ion Ratio Lower Upper
43 100
61 16.8 14.2 21.4
87 11.6 9.0 13.6





#45

1,2-Dichloropropane

Concen: 0.404 ug/l

RT: 9.24 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063852.D

Acq: 3 Oct 2020 4:44

Instrument :

MSVOA_N

ClientSampleId :

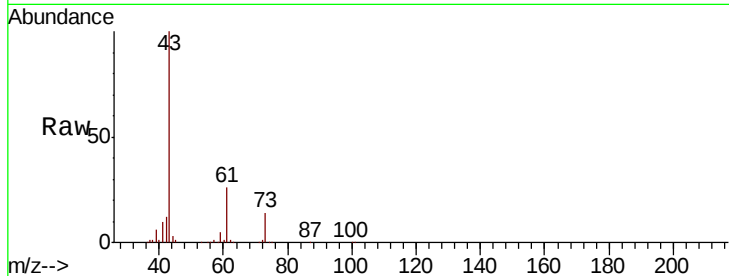
RO-20

Tot Ion: 63 Resp: 1266

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN063852.D (-2191) (-)

Ion 64.90 (64.60 to 65.60): VN063852.D (-2191) (-)

9.24

800

600

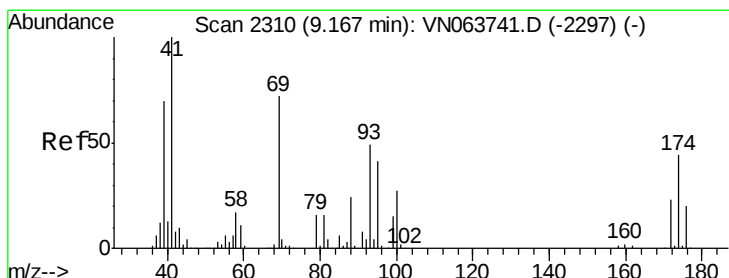
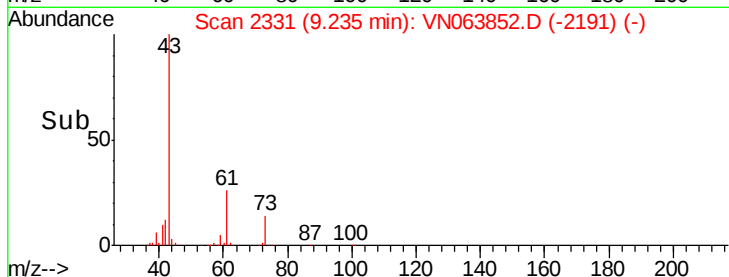
400

200

0

9.20 9.25

Time-->



#48

Methyl methacrylate

Concen: 1.288 ug/l

RT: 9.15 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063852.D

Acq: 3 Oct 2020 4:44

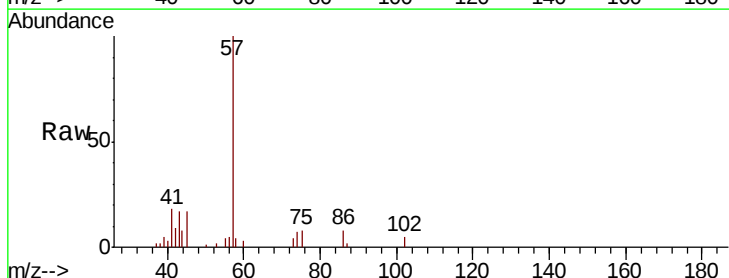
Tgt Ion: 41 Resp: 4239

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): VN063852.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN063852.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN063852.D (-2217) (-)

80000

60000

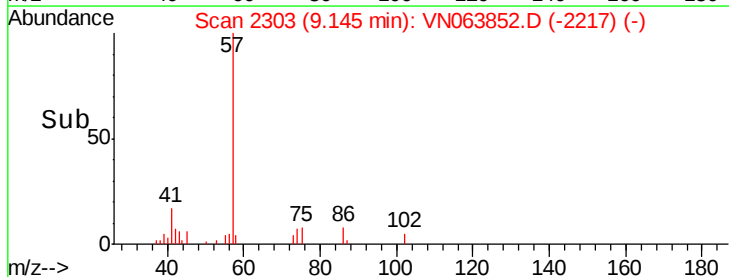
40000

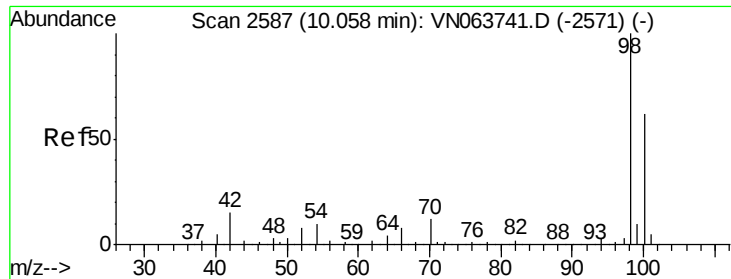
20000

0

9.10 9.15 9.20

Time-->





#50

Toluene-d8

Concen: 48.213 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN063852.D

Acq: 3 Oct 2020 4:44

Instrument :

MSVOA_N

ClientSampled :

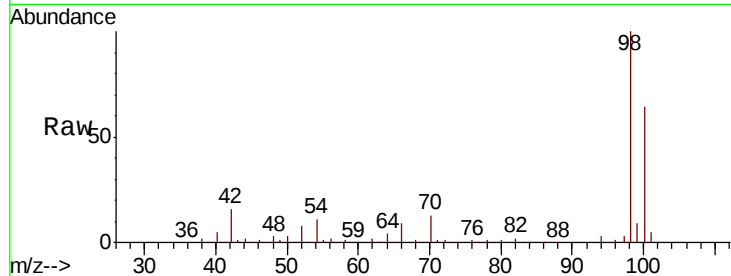
RO-20

Tot Ion: 98 Resp: 509013

Ion Ratio Lower Upper

98 100

100 63.6 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN063741.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063741.D (-2571) (-)

10.06

300000

250000

200000

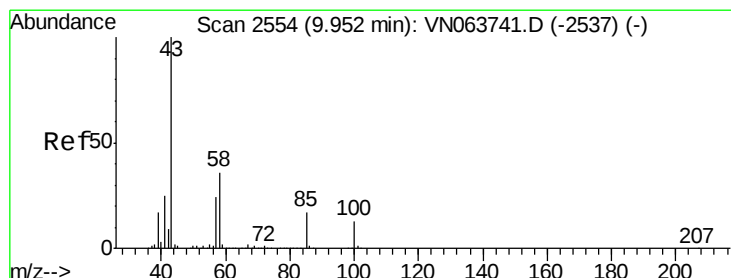
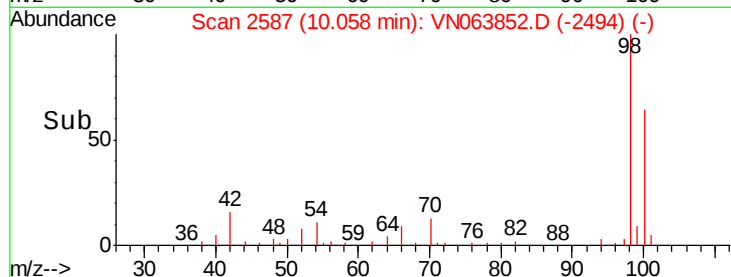
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.763 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN063852.D

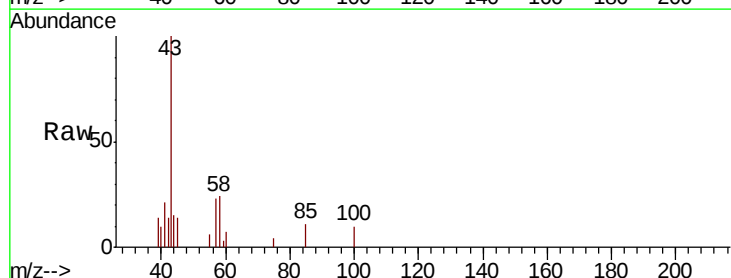
Acq: 3 Oct 2020 4:44

Tgt Ion: 43 Resp: 6896

Ion Ratio Lower Upper

43 100

58 37.2 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN063741.D (-2537) (-)

40000

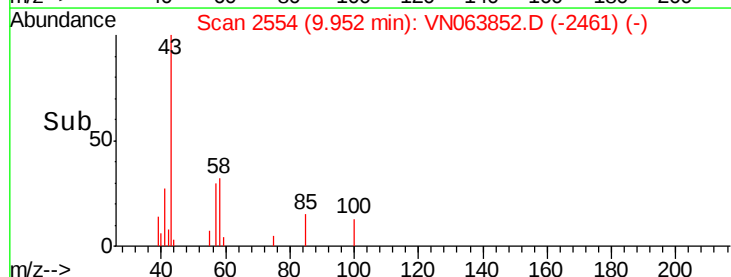
30000

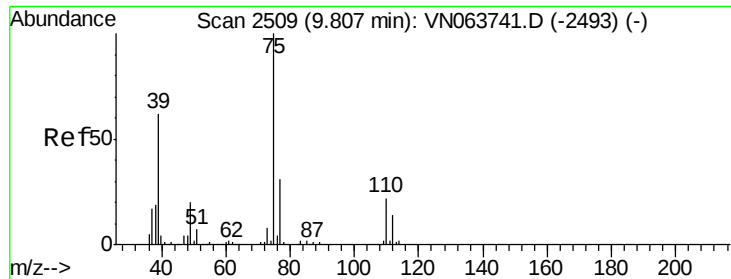
20000

10000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.658 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN063852.D

Acq: 3 Oct 2020 4:44

Instrument :

MSVOA_N

ClientSampleId :

RO-20

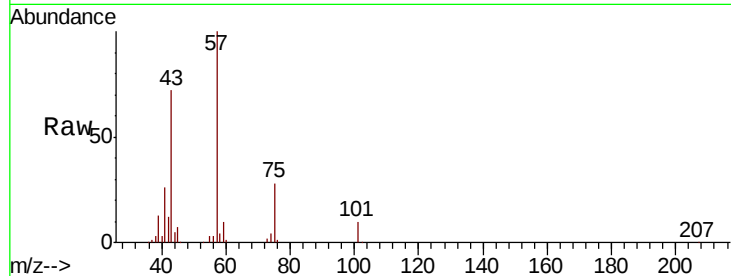
Tot Ion: 75 Resp: 28287

Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

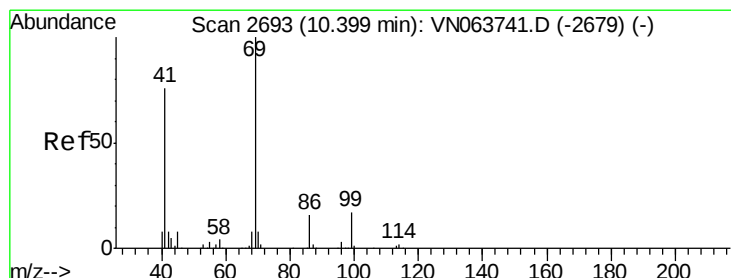
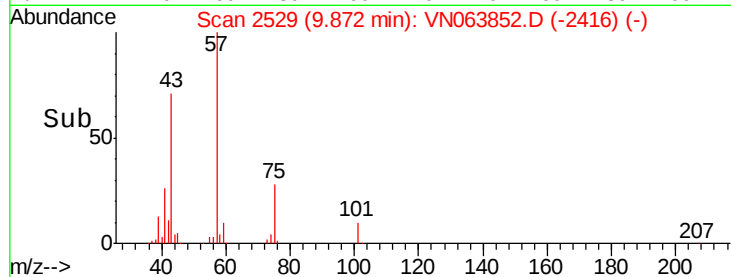
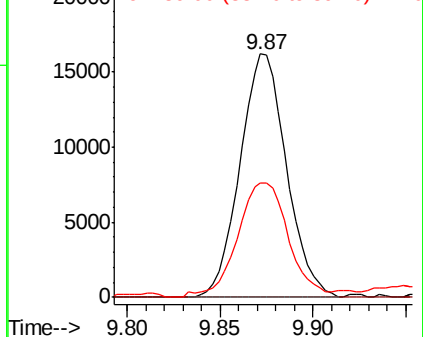
39 44.9 49.7 74.5#



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: 0.437 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063852.D

Acq: 3 Oct 2020 4:44

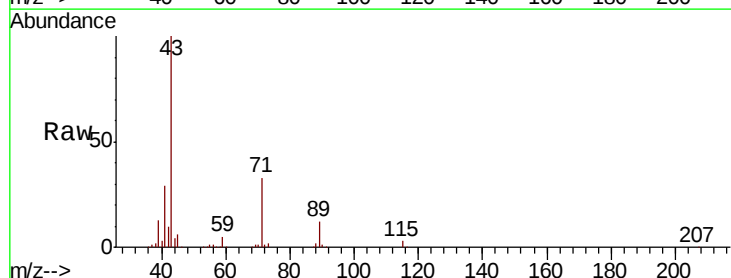
Tgt Ion: 69 Resp: 1783

Ion Ratio Lower Upper

69 100

41 4540.8 61.1 91.7#

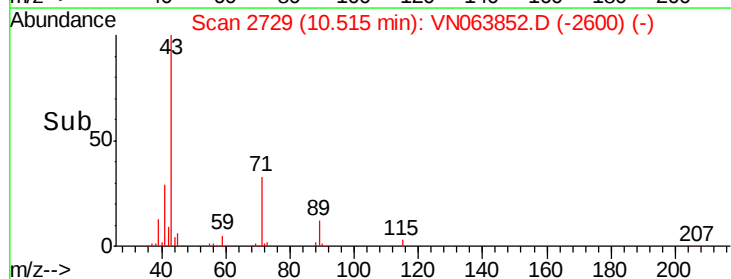
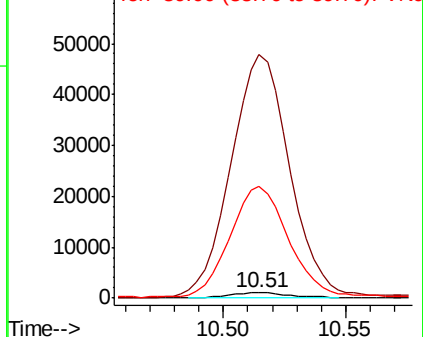
39 2023.0 42.2 63.4#

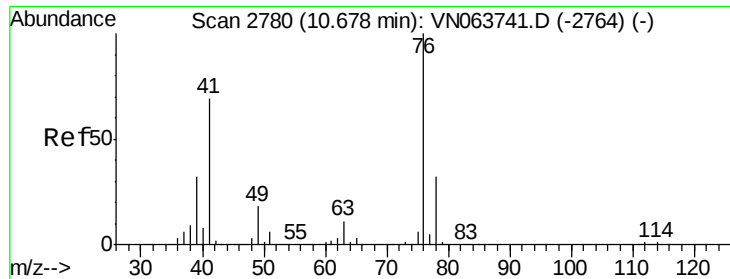


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

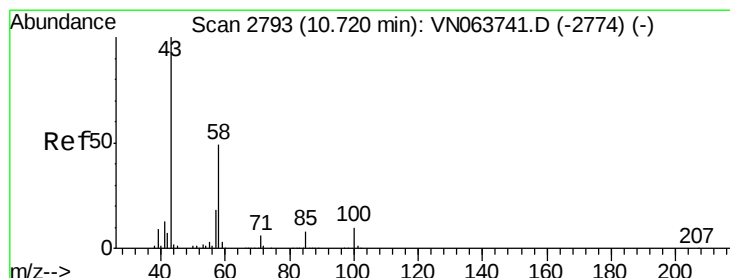
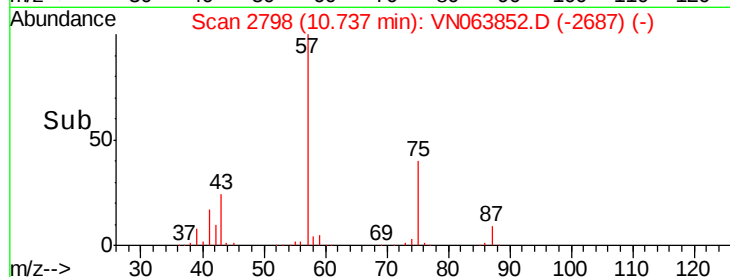
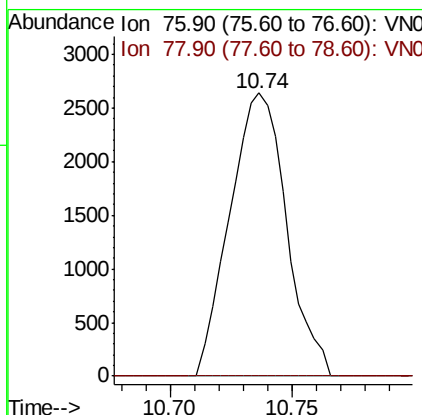
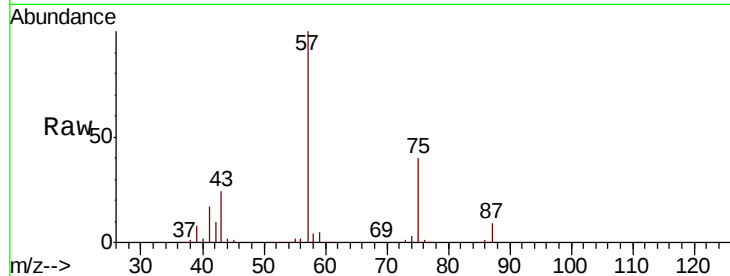




#57
 1,3-Dichloropropane
 Concen: 0.871 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN063852.D
 Acq: 3 Oct 2020 4:44

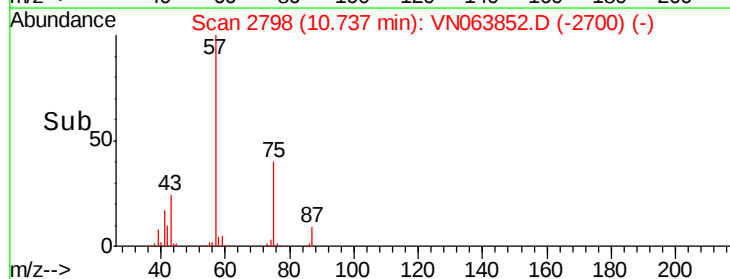
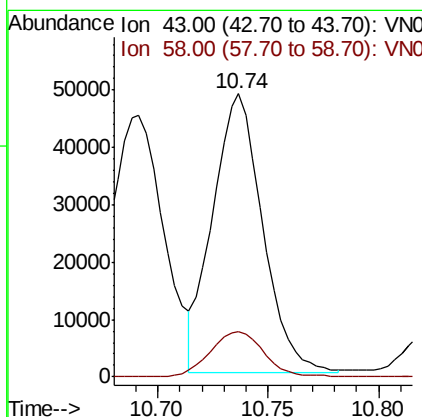
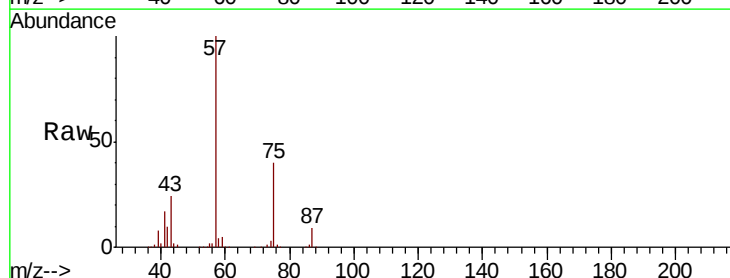
Instrument :
 MSVOA_N
 ClientSampled :
 RO-20

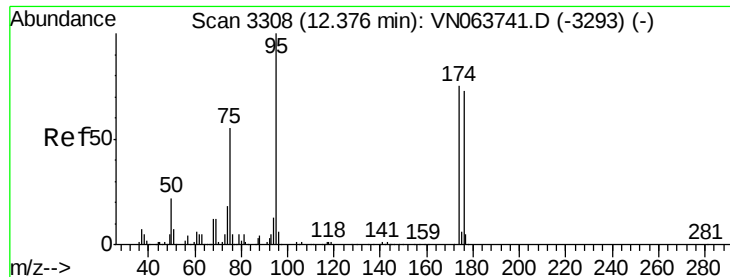
Tot Ion: 76 Resp: 4247
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 26.173 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN063852.D
 Acq: 3 Oct 2020 4:44

Tgt Ion: 43 Resp: 76032
 Ion Ratio Lower Upper
 43 100
 58 17.6 24.6 73.8#

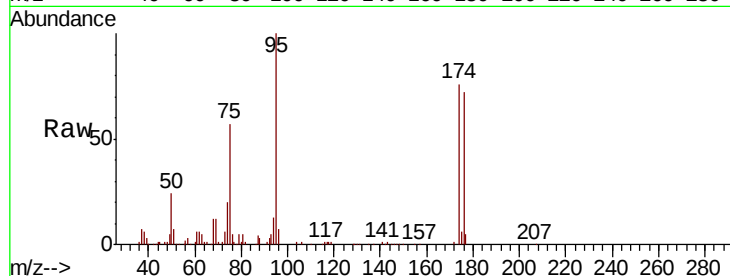




#62
4-Bromofluorobenzene
Concen: 50.026 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063852.D
Acq: 3 Oct 2020 4:44

Instrument :
MSVOA_N
ClientSampleId :
RO-20

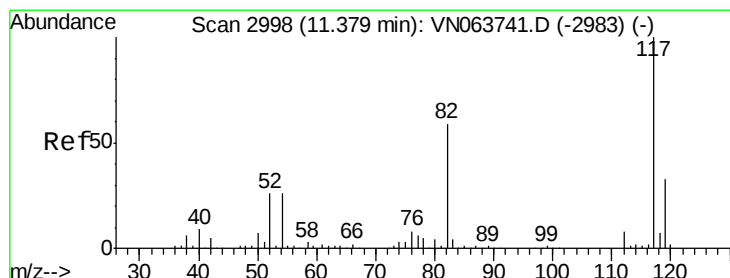
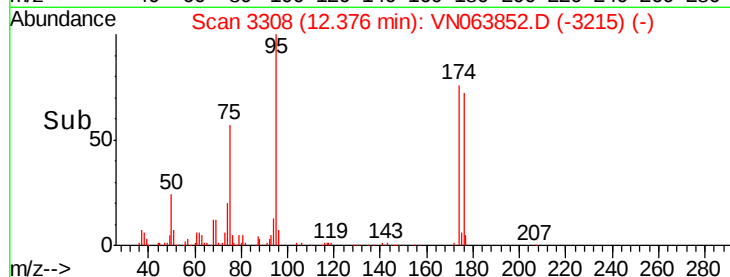
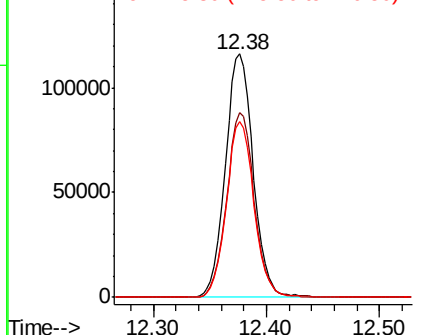
Tot Ion	95	Resp	198539
Ion Ratio	Lower	Upper	
95	100		
174	75.2	0.0	150.6
176	71.7	0.0	145.4



Abundance Ion 94.90 (94.60 to 95.60): VN063852.D (-3215) (-)

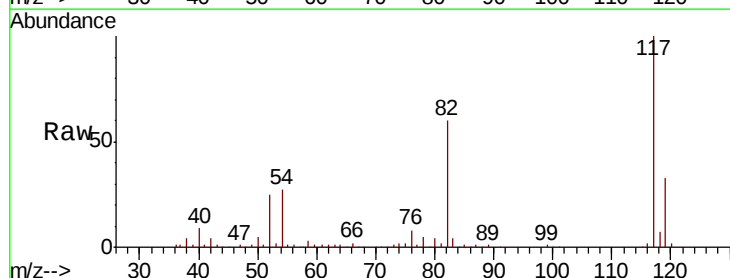
Ion 173.80 (173.50 to 174.50): VN063852.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063852.D (-3215) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063852.D
Acq: 3 Oct 2020 4:44

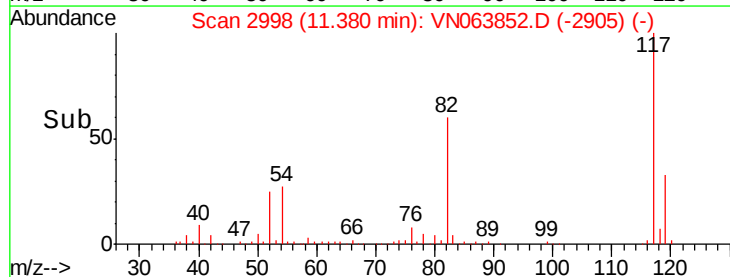
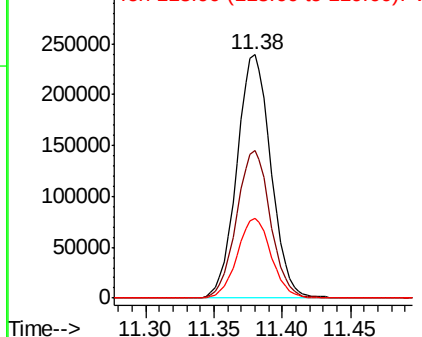
Tgt Ion	117	Resp	414874
Ion Ratio	Lower	Upper	
117	100		
82	60.4	47.4	71.2
119	32.8	26.4	39.6

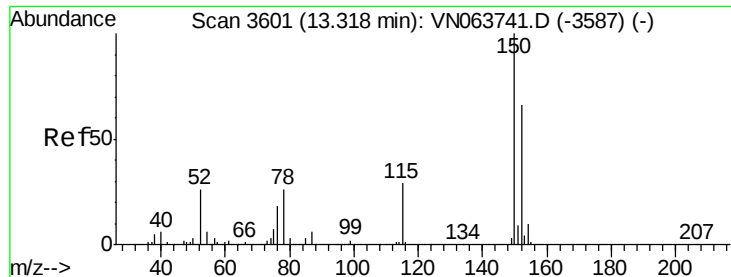


Abundance Ion 116.90 (116.60 to 117.60): VN063852.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063852.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063852.D (-2905) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063852.D

Acq: 3 Oct 2020 4:44

Instrument :

MSVOA_N

ClientSampleId :

RO-20

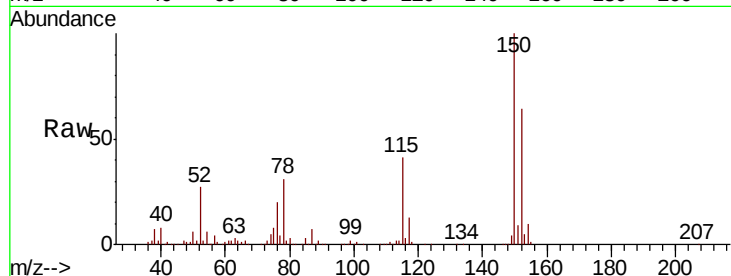
Tot Ion:152 Resp: 163639

Ion Ratio Lower Upper

152 100

115 62.7 31.3 93.8

150 158.1 0.0 341.8

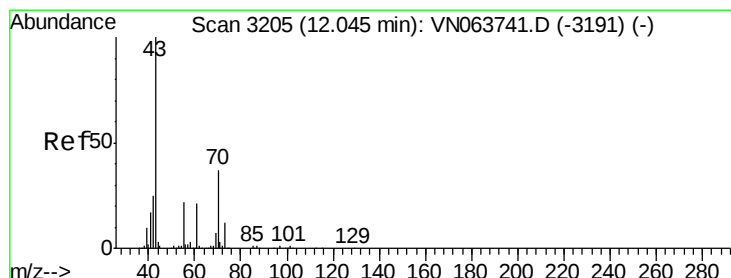
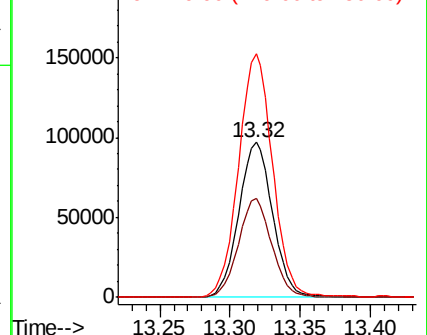
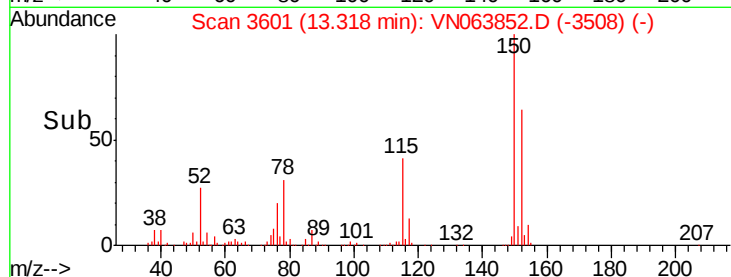


Abundance

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-ethyl acetate

Concen: 2.577 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063852.D

Acq: 3 Oct 2020 4:44

Tgt Ion: 43 Resp: 2095

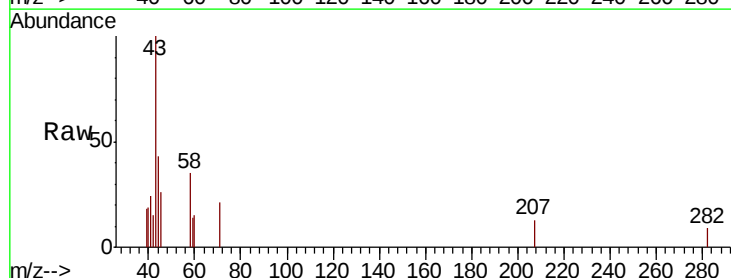
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 0.0 17.9 26.9#

61 0.0 17.0 25.4#



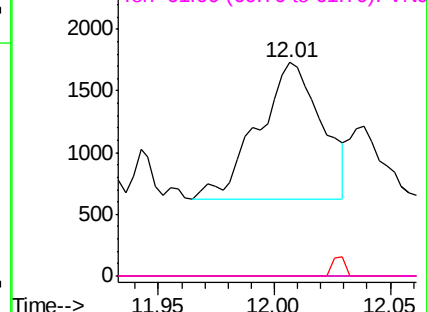
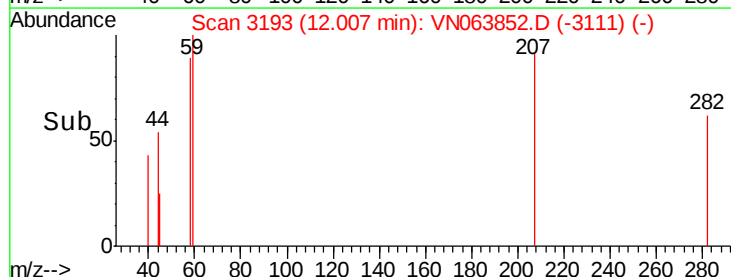
Abundance

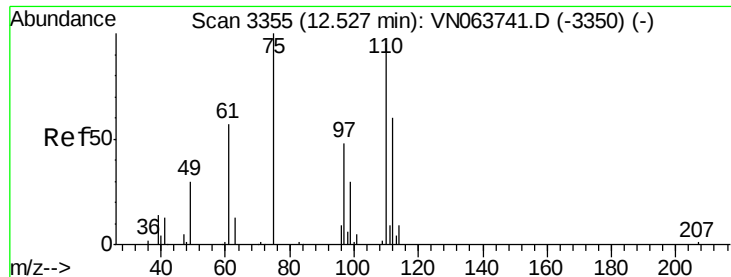
Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 30.797 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063852.D

Acq: 3 Oct 2020 4:44

Instrument :

MSVOA_N

ClientSampled :

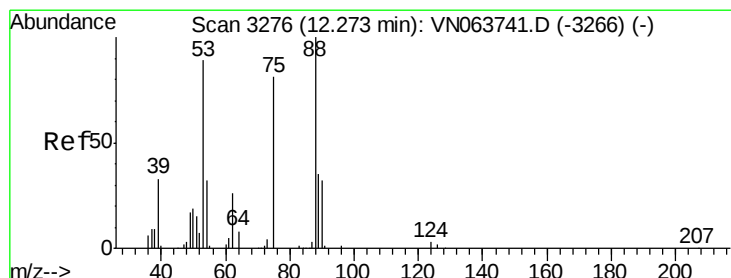
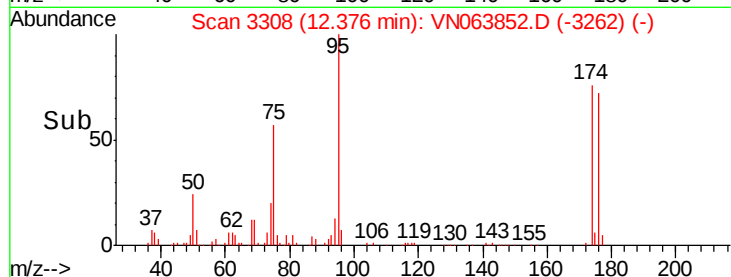
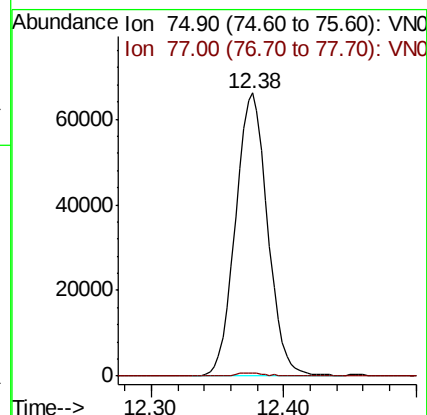
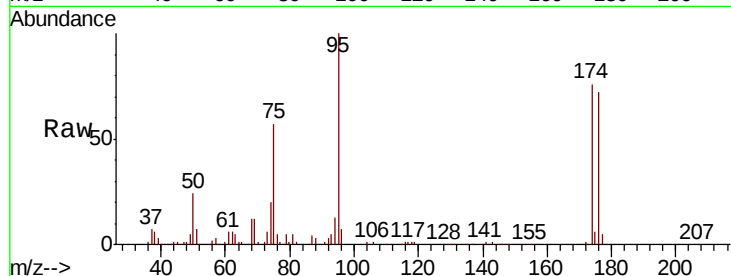
RO-20

Tot Ion: 75 Resp: 111093

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 88.701 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063852.D

Acq: 3 Oct 2020 4:44

Tgt Ion: 75 Resp: 111093

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.0 36.0 54.0#

