

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070920\
 Data File : VN062480.D
 Acq On : 10 Jul 2020 1:28
 Operator : JC/MD
 Sample : L3203-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-20

Quant Time: Jul 10 02:13:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 00:55:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	186272	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	345593	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	327352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	116353	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	148085	51.69	ug/l	0.00
Spiked Amount			Recovery	=	103.38%	
35) Dibromofluoromethane	7.55	113	109585	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
50) Toluene-d8	10.06	98	443099	52.54	ug/l	0.00
Spiked Amount			Recovery	=	105.08%	
62) 4-Bromofluorobenzene	12.38	95	156920	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	

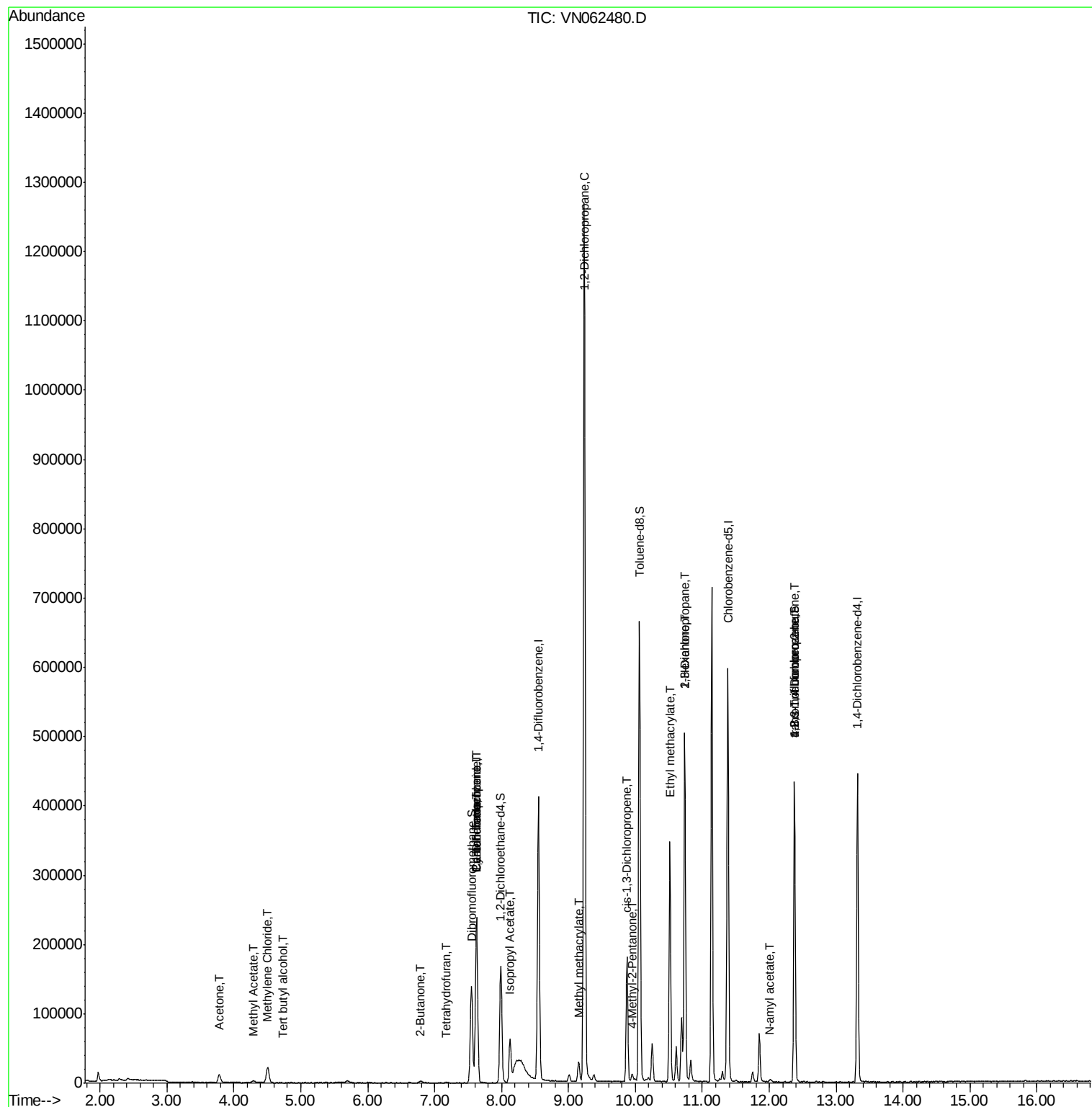
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	136	0.286	ug/l #	74
16) Acetone	3.78	43	21744	17.876	ug/l	93
18) Methyl Acetate	4.29	43	6221	2.049	ug/l #	70
20) Methylene Chloride	4.50	84	15408	5.924	ug/l	92
25) 2-Butanone	6.79	43	1277	0.719	ug/l	91
29) Tetrahydrofuran	7.18	42	814	0.681	ug/l #	39
31) Cyclohexane	7.62	56	4378	1.006	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	16503	4.740	ug/l #	51
38) Carbon Tetrachloride	7.63	117	18965	6.059	ug/l #	15
43) Isopropyl Acetate	8.13	43	78918	12.270	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	1519	0.510	ug/l #	44
48) Methyl methacrylate	9.15	41	4822	1.528	ug/l #	17
51) 4-Methyl-2-Pentanone	9.95	43	9275	2.414	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	30069	6.768	ug/l #	64
56) Ethyl methacrylate	10.52	69	1053	1.949	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4705	1.092	ug/l #	43
59) 2-Hexanone	10.74	43	77627	27.836	ug/l #	54
74) N-amyl acetate	12.00	43	3138	0.716	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	81901	28.688	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	81901	76.785	ug/l #	10
95) Naphthalene	15.11	128	493	Below Cal	#	70

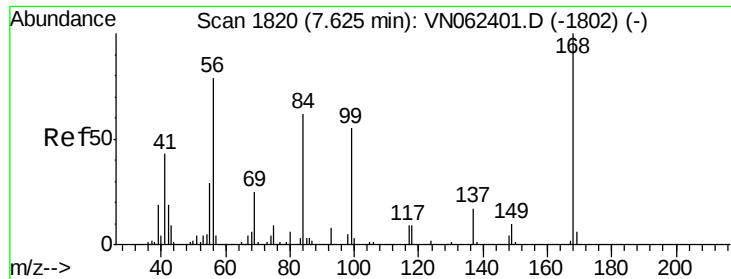
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 10 00:55:52 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062480.D

Acq: 10 Jul 2020 1:28

Instrument :

MSVOA_N

ClientSampled :

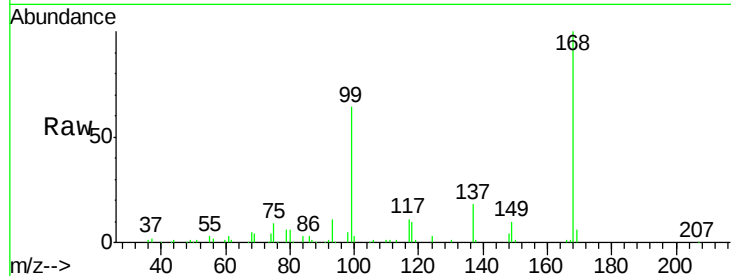
RO-20

Tot Ion:168 Resp: 186272

Ion Ratio Lower Upper

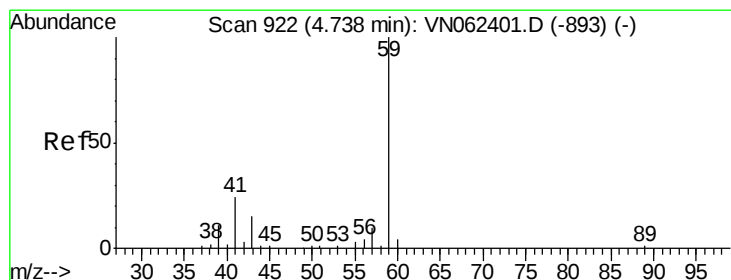
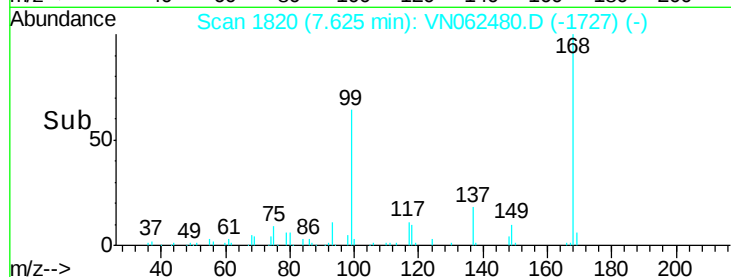
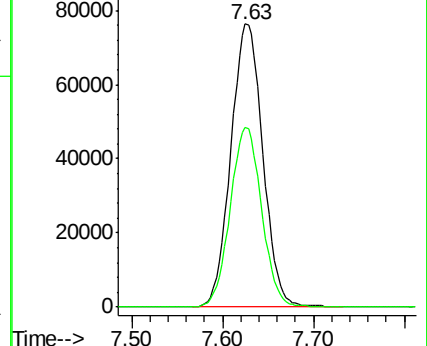
168 100

99 63.7 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.286 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.01 min

Lab File: VN062480.D

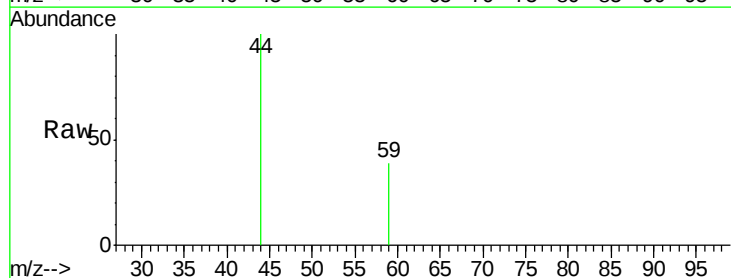
Acq: 10 Jul 2020 1:28

Tgt Ion: 59 Resp: 136

Ion Ratio Lower Upper

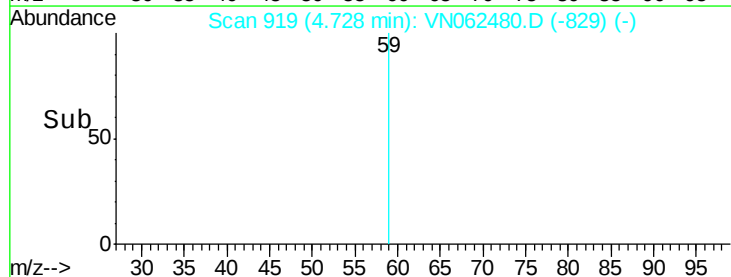
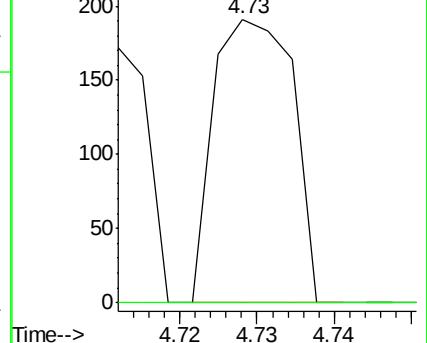
59 100

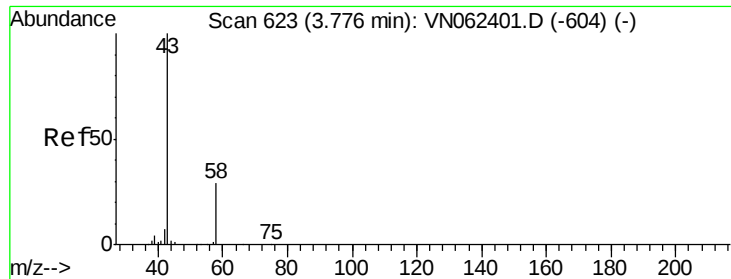
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 17.876 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN062480.D

Acq: 10 Jul 2020 1:28

Instrument :

MSVOA_N

ClientSampled :

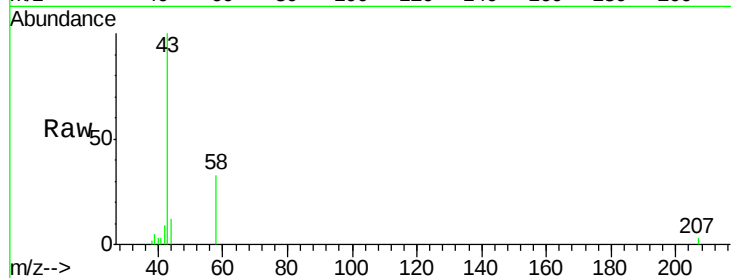
RO-20

Tot Ion: 43 Resp: 21744

Ion Ratio Lower Upper

43 100

58 33.1 23.5 35.3



Abundance Ion 43.00 (42.70 to 43.70): VN062480.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN062480.D (-530) (-)

3.78

8000

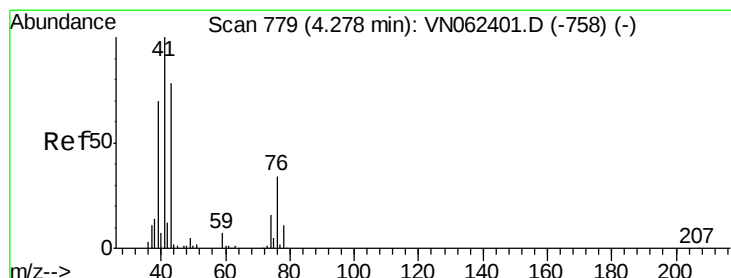
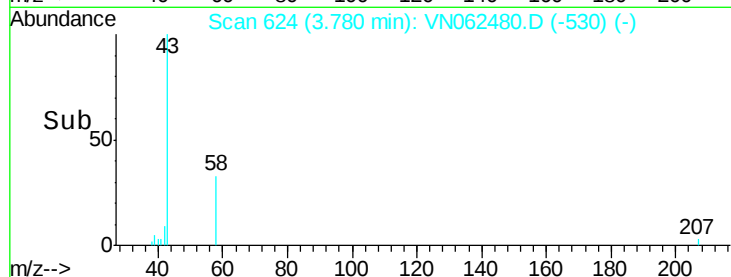
6000

4000

2000

0

Time-->



#18

Methyl Acetate

Concen: 2.049 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.01 min

Lab File: VN062480.D

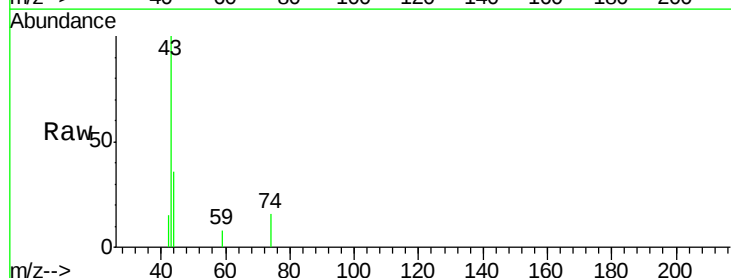
Acq: 10 Jul 2020 1:28

Tgt Ion: 43 Resp: 6221

Ion Ratio Lower Upper

43 100

74 6.0 16.0 24.0#



Abundance Ion 43.00 (42.70 to 43.70): VN062480.D (-686) (-)

Ion 74.00 (73.70 to 74.70): VN062480.D (-686) (-)

4.29

2000

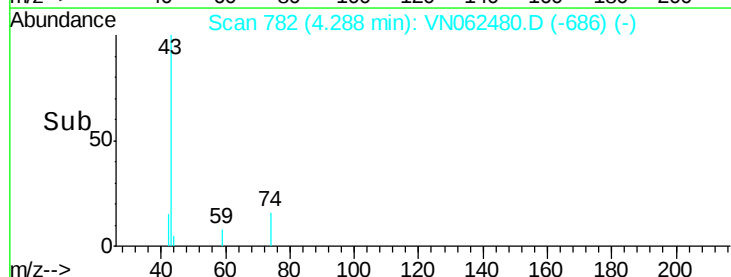
1500

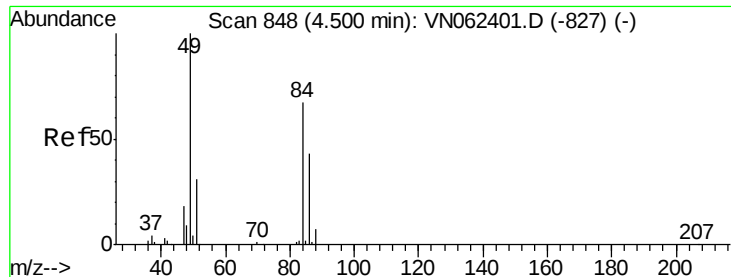
1000

500

0

Time-->

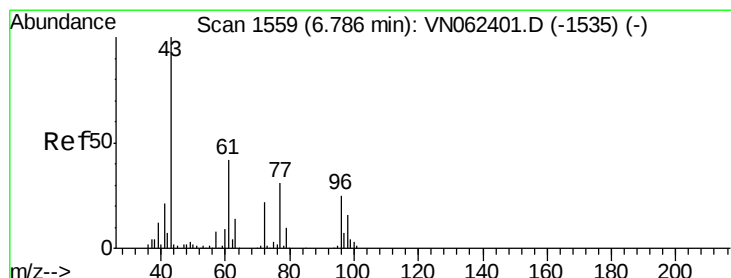
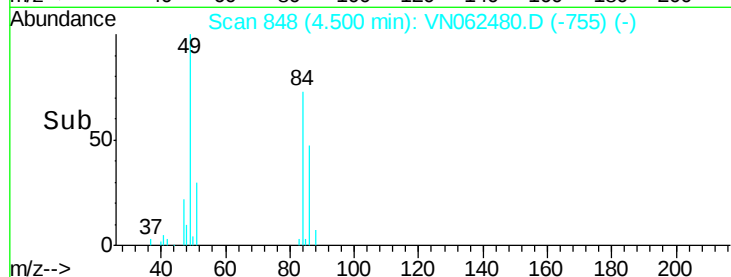
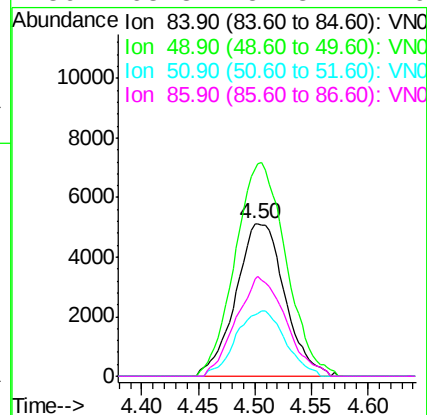
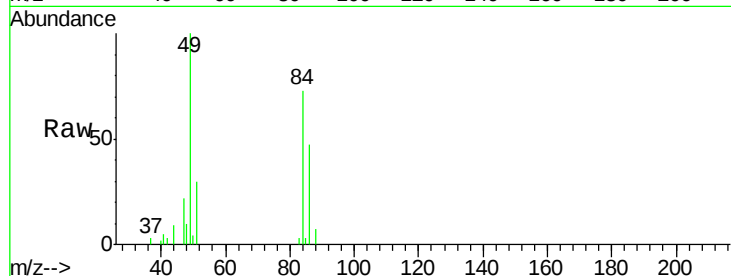




#20
Methvlene Chloride
Concen: 5.924 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN062480.D
Acq: 10 Jul 2020 1:28

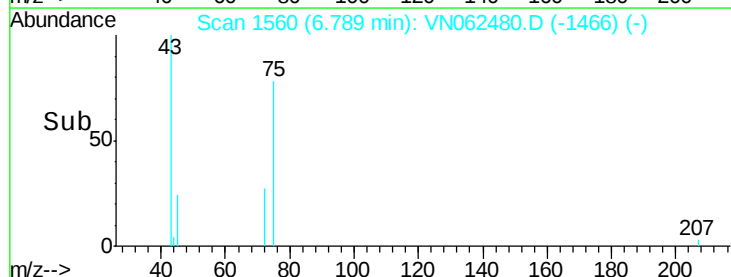
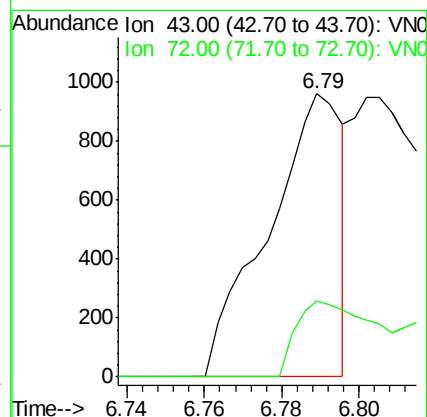
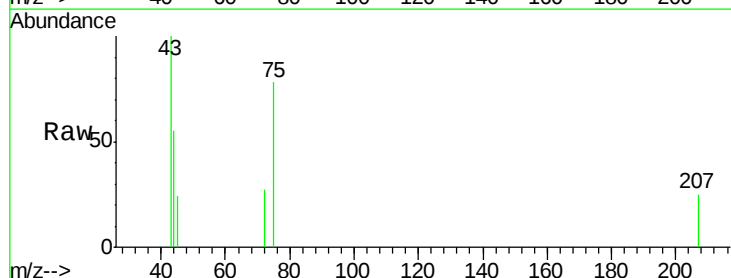
Instrument :
MSVOA_N
ClientSampled :
RO-20

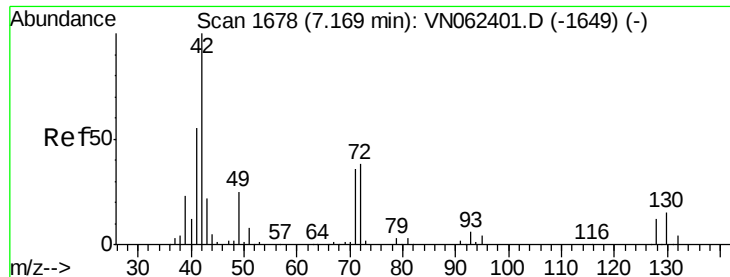
Tot Ion:	84	Resp:	15408
Ion	Ratio	Lower	Upper
84	100		
49	136.4	120.0	180.0
51	40.7	37.0	55.6
86	63.8	51.8	77.6



#25
2-Butanone
Concen: 0.719 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VN062480.D
Acq: 10 Jul 2020 1:28

Tgt Ion:	43	Resp:	1277
Ion	Ratio	Lower	Upper
43	100		
72	26.7	17.9	26.9





#29

Tetrahydrofuran

Concen: 0.681 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VN062480.D

Acq: 10 Jul 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

RO-20

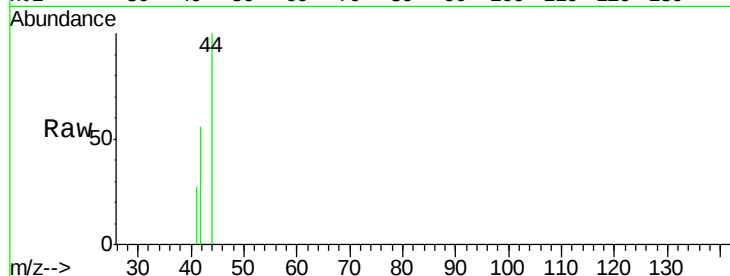
Tot Ion: 42 Resp: 814

Ion Ratio Lower Upper

42 100

72 0.0 29.1 43.7#

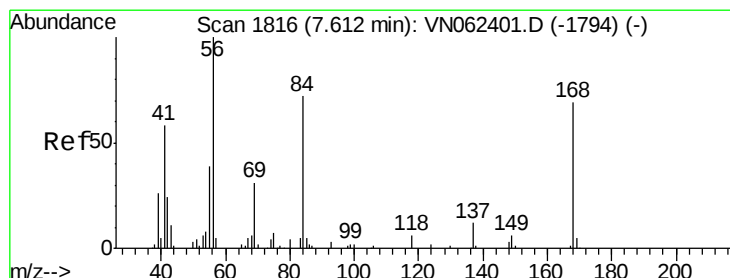
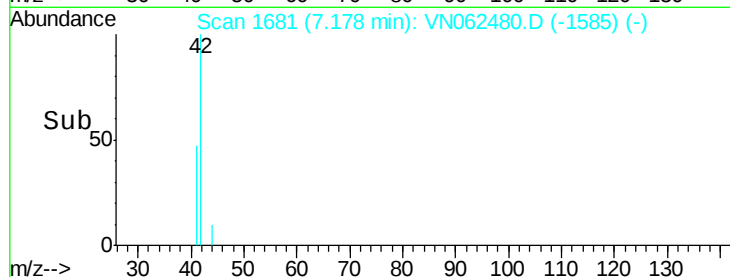
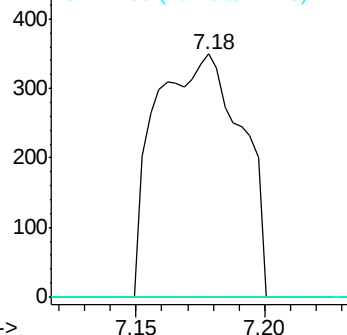
71 0.0 28.1 42.1#



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: 1.006 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062480.D

Acq: 10 Jul 2020 1:28

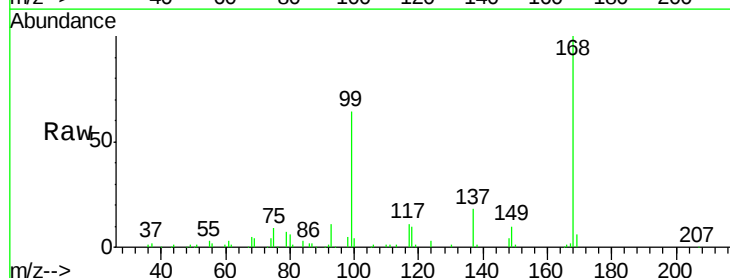
Tgt Ion: 56 Resp: 4378

Ion Ratio Lower Upper

56 100

69 182.9 24.5 36.7#

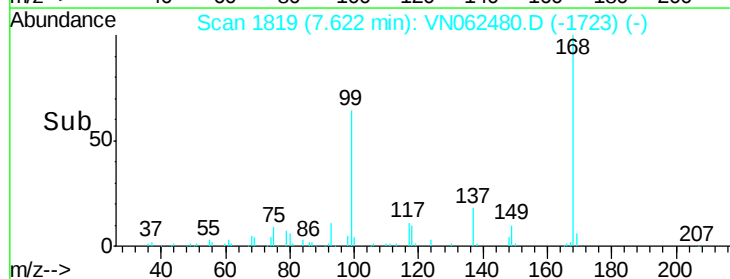
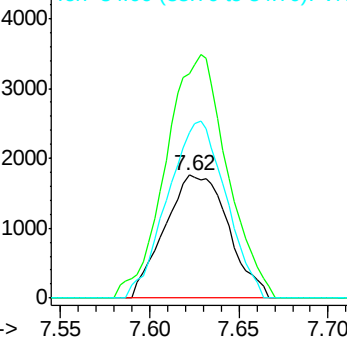
84 134.5 57.4 86.2#

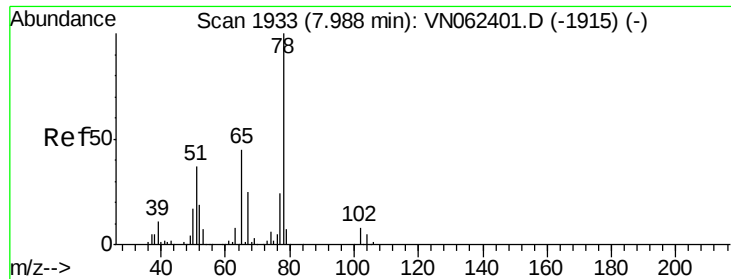


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

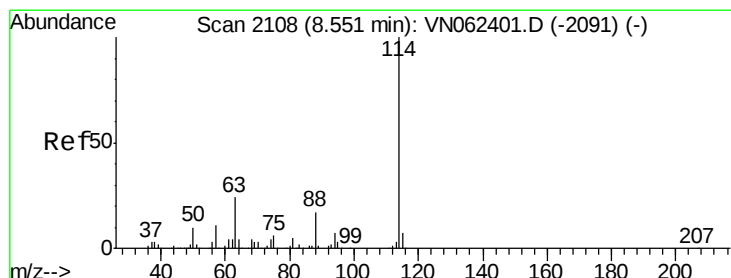
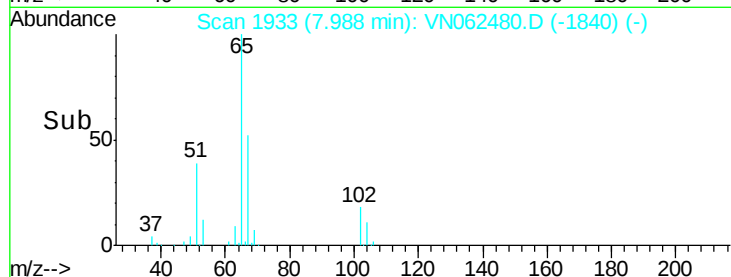
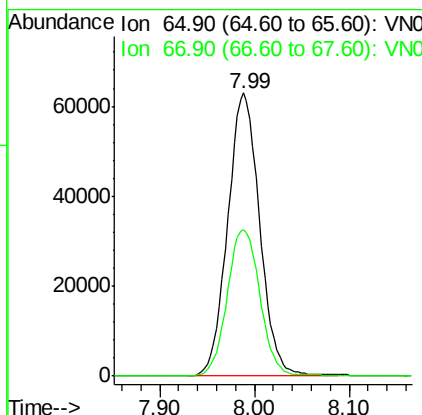
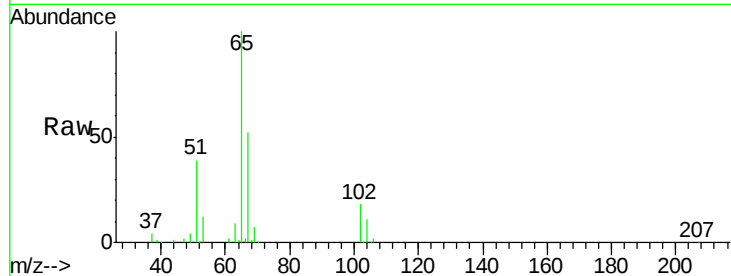




#33
 1,2-Dichloroethane-d4
 Concen: 51.686 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN062480.D
 Acq: 10 Jul 2020 1:28

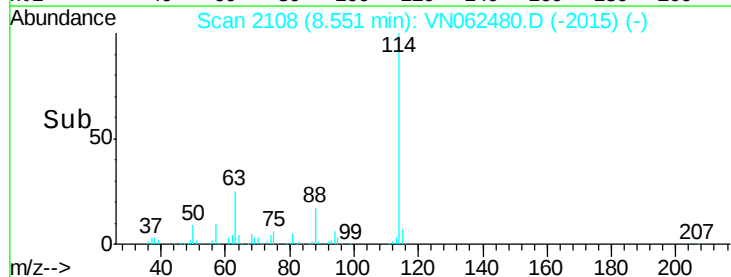
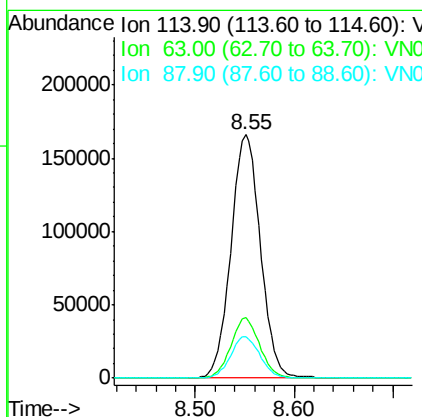
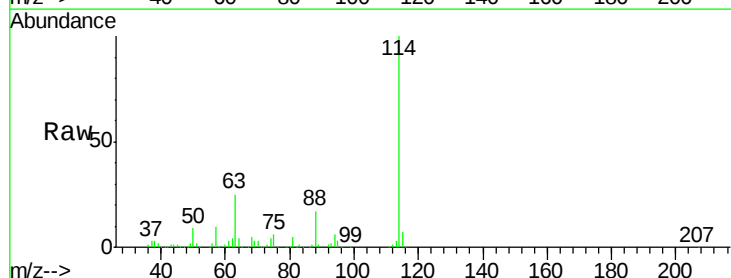
Instrument :
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 RO-20

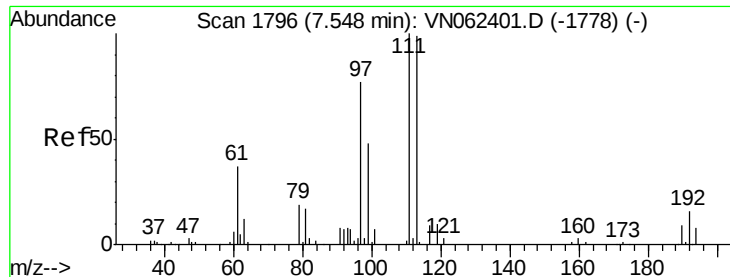
Tot Ion: 65 Resp: 148085
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062480.D
 Acq: 10 Jul 2020 1:28

Tgt Ion: 114 Resp: 345593
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 48.4
 88 16.8 0.0 33.8

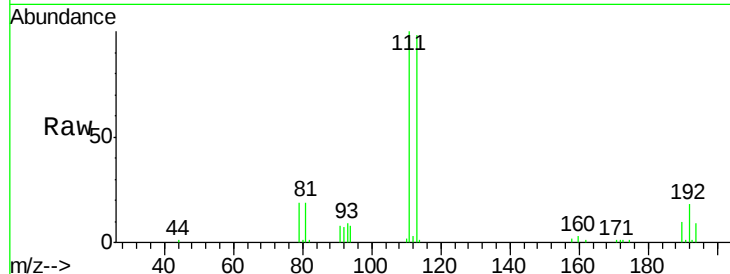




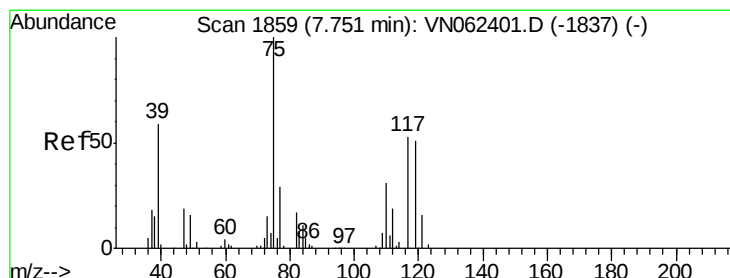
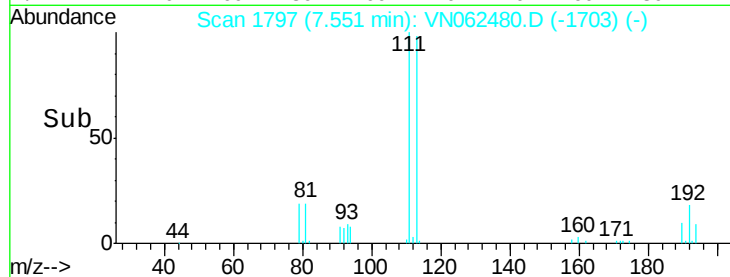
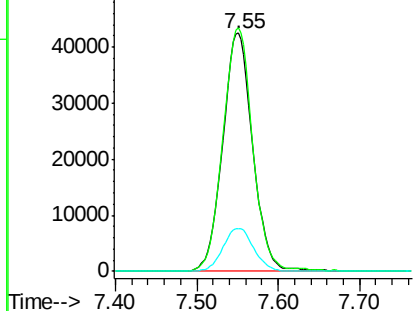
#35
 Dibromofluoromethane
 Concen: 51.298 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062480.D
 Acq: 10 Jul 2020 1:28

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-20

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	83.1	124.7
192	18.4	14.1	21.1

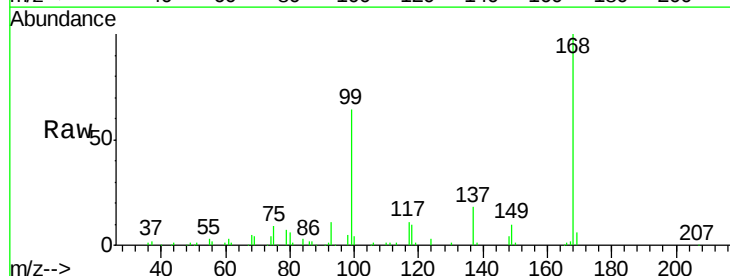


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

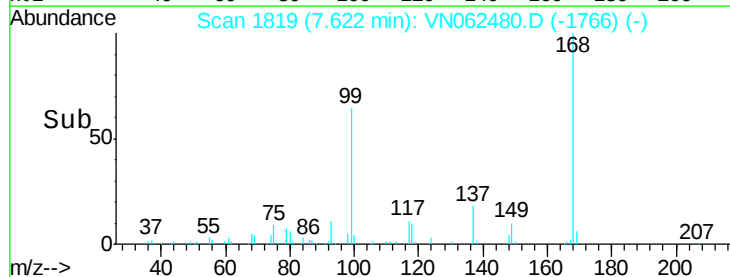
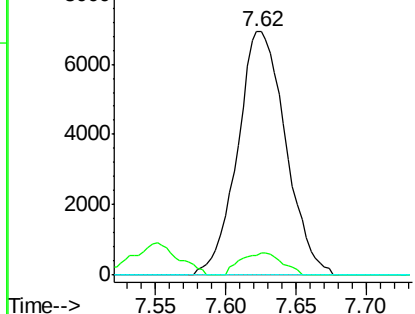


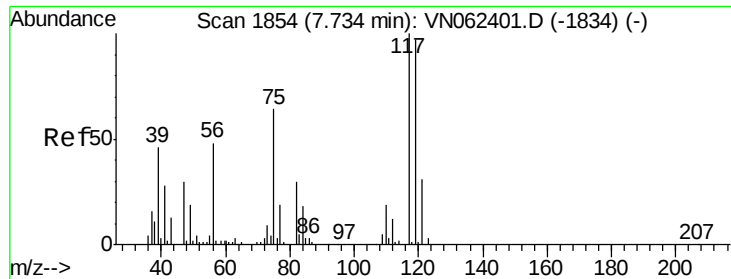
#36
 1,1-Dichloropropene
 Concen: 4.740 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062480.D
 Acq: 10 Jul 2020 1:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	15.4	46.2#
77	0.0	24.1	36.1#



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





#38

Carbon Tetrachloride

Concen: 6.059 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062480.D

Acq: 10 Jul 2020 1:28

Instrument :

MSVOA_N

ClientSampled :

RO-20

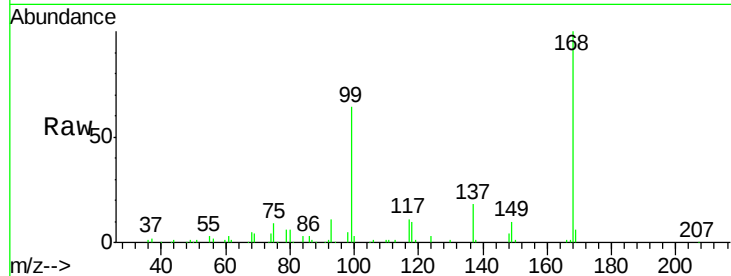
Tot Ion:117 Resp: 18965

Ion Ratio Lower Upper

117 100

119 4.6 77.2 115.8#

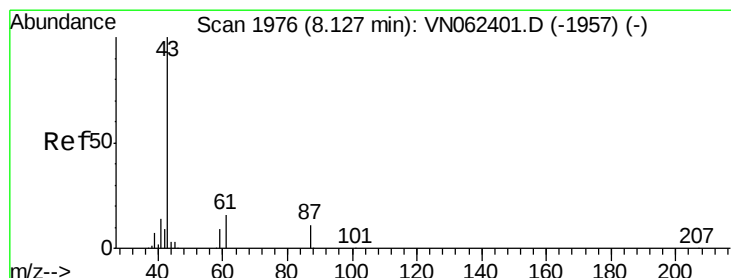
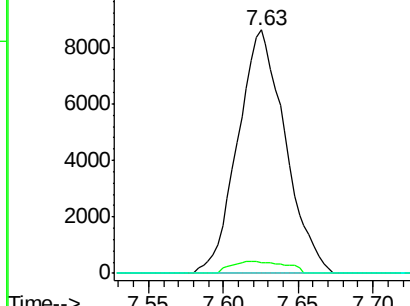
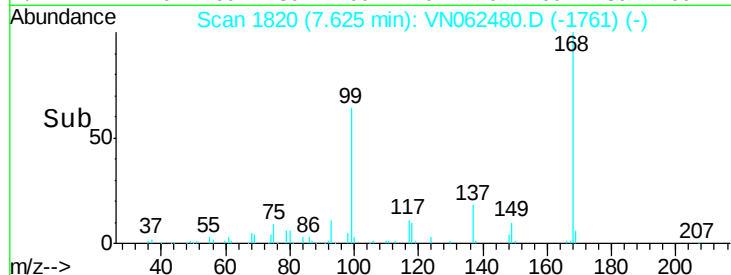
121 0.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 12.270 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062480.D

Acq: 10 Jul 2020 1:28

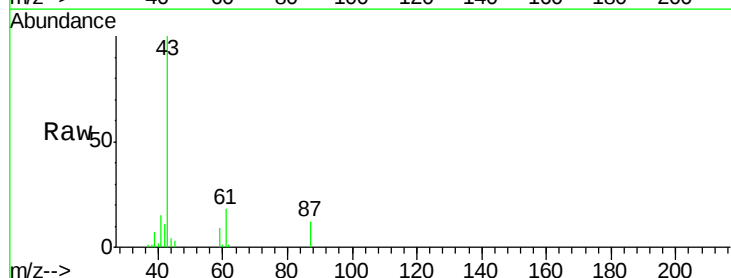
Tgt Ion: 43 Resp: 78918

Ion Ratio Lower Upper

43 100

61 18.0 19.3 28.9#

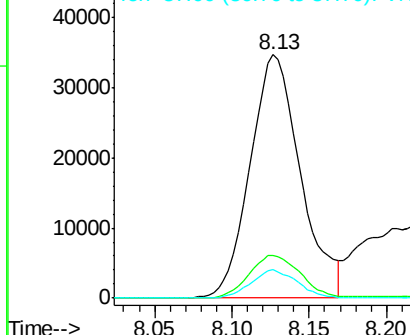
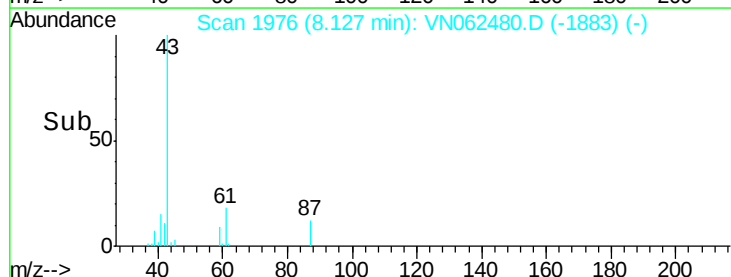
87 10.5 8.6 13.0

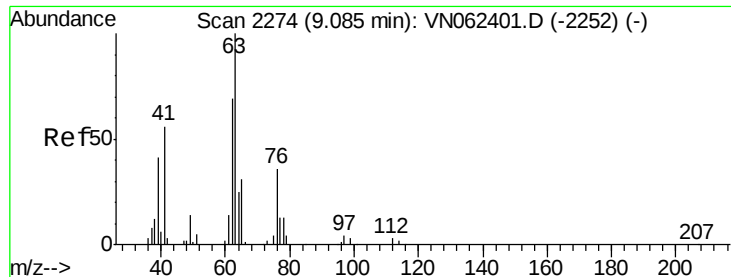


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.510 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062480.D

Acq: 10 Jul 2020 1:28

Instrument :

MSVOA_N

ClientSampled :

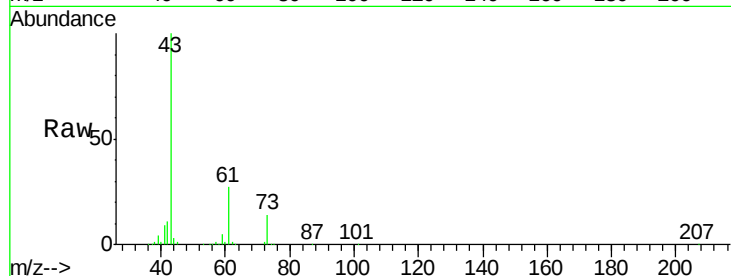
RO-20

Tot Ion: 63 Resp: 1519

Ion Ratio Lower Upper

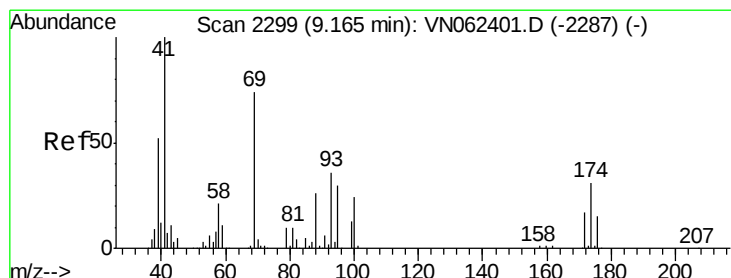
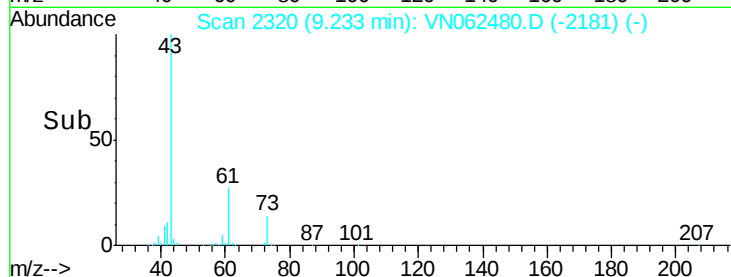
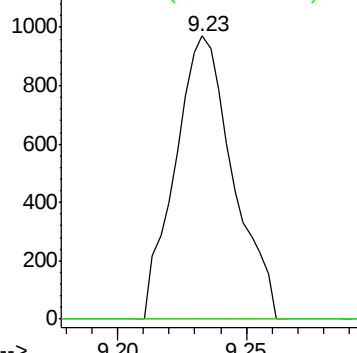
63 100

65 0.0 24.6 36.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.528 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN062480.D

Acq: 10 Jul 2020 1:28

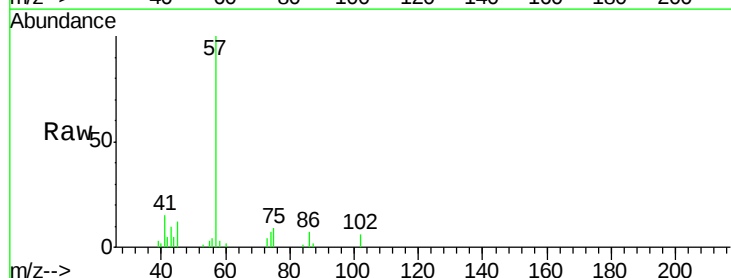
Tgt Ion: 41 Resp: 4822

Ion Ratio Lower Upper

41 100

69 0.0 60.8 91.2#

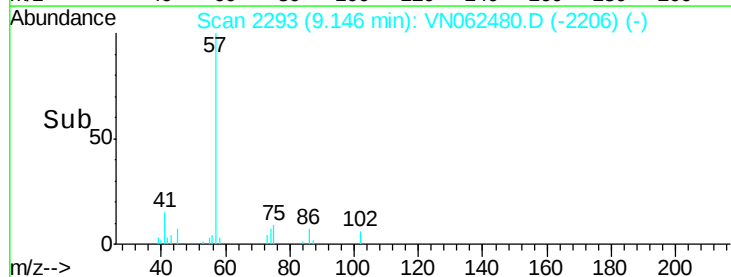
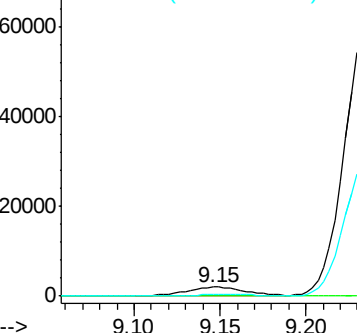
39 0.0 43.5 65.3#

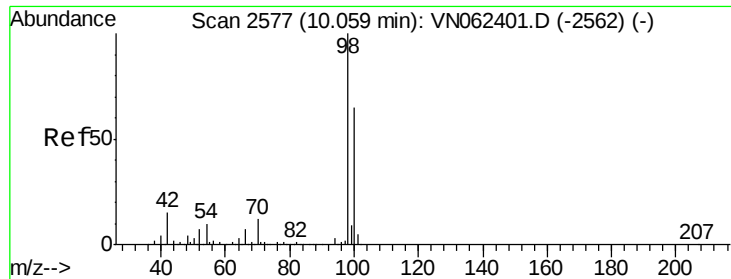


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 52.542 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062480.D

Acq: 10 Jul 2020 1:28

Instrument :

MSVOA_N

ClientSampled :

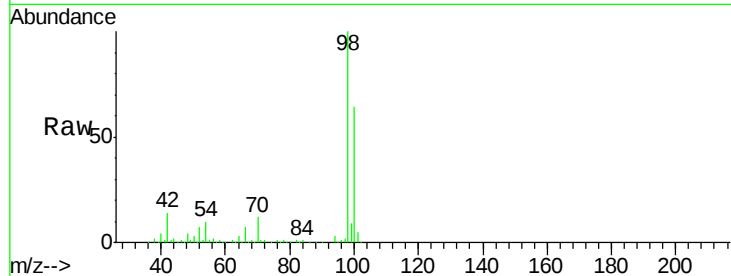
RO-20

Tot Ion: 98 Resp: 443099

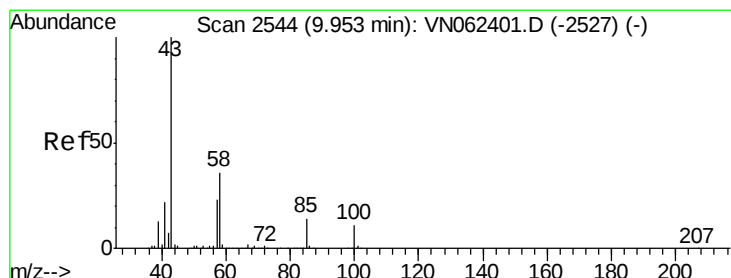
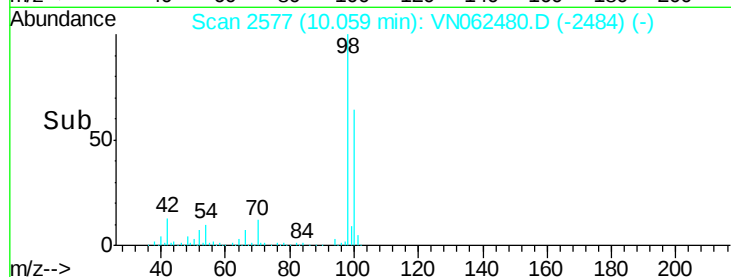
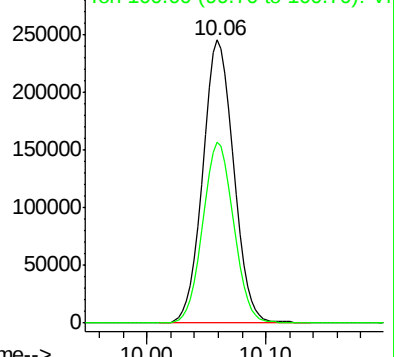
Ion Ratio Lower Upper

98 100

100 64.0 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN062401.D (-2562) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.414 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062480.D

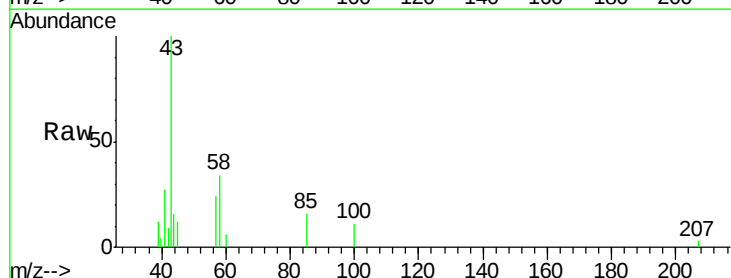
Acq: 10 Jul 2020 1:28

Tgt Ion: 43 Resp: 9275

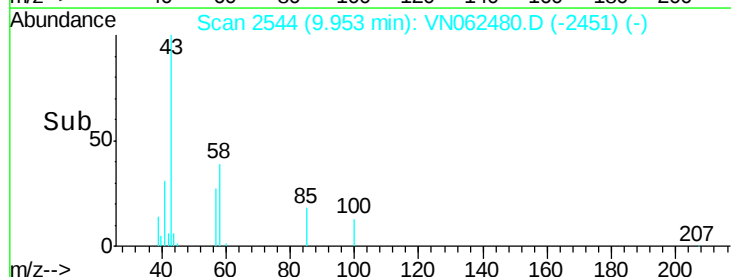
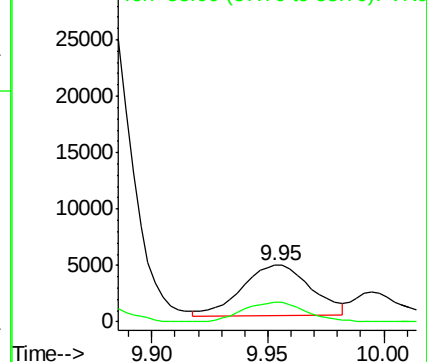
Ion Ratio Lower Upper

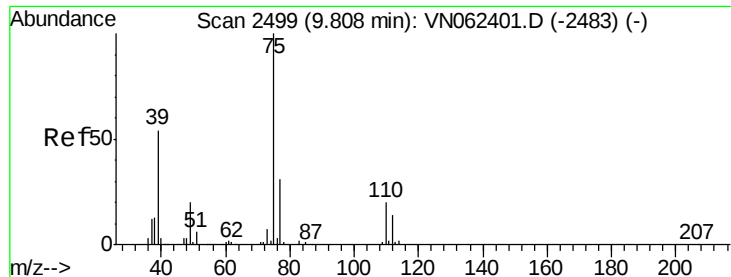
43 100

58 35.3 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN062401.D (-2527) (-)



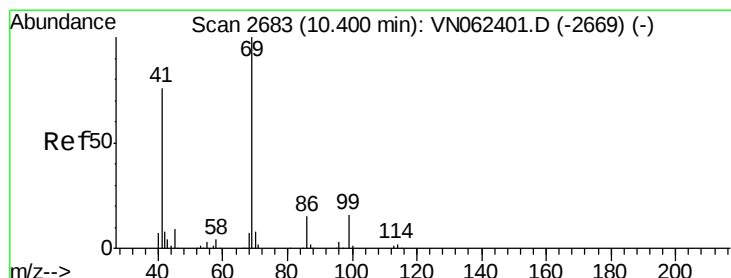
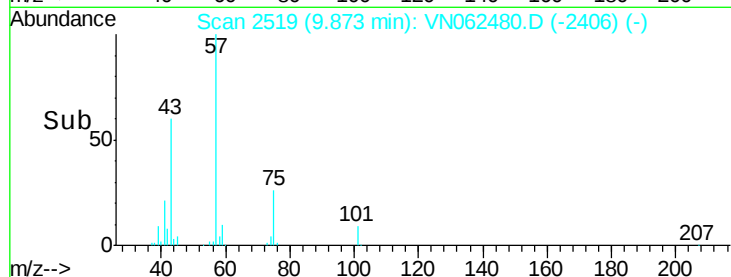
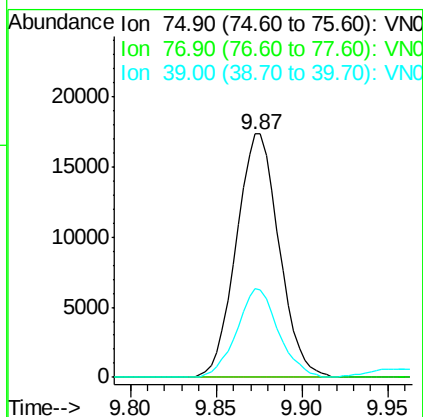
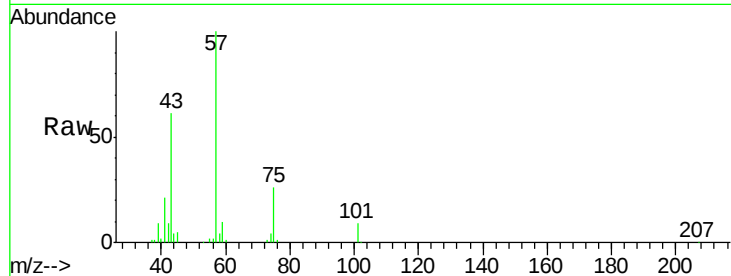


#54

cis-1,3-Dichloropropene
 Concen: 6.768 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN062480.D
 Acq: 10 Jul 2020 1:28

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-20

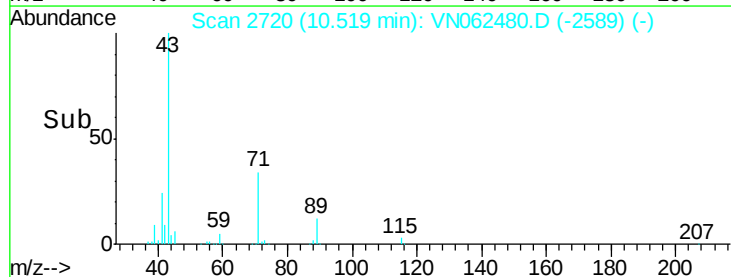
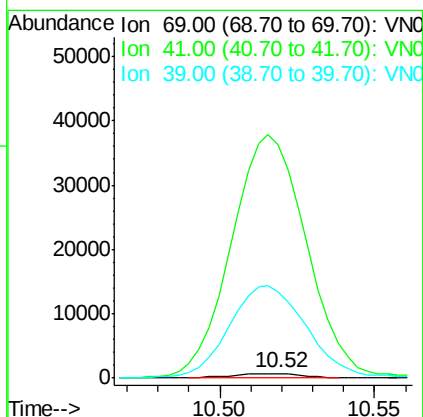
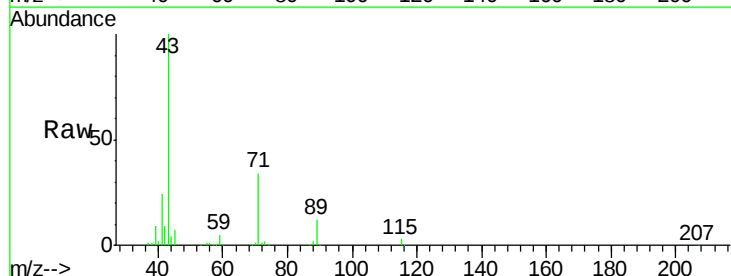
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.5	36.7#
39	36.4	43.4	65.0#

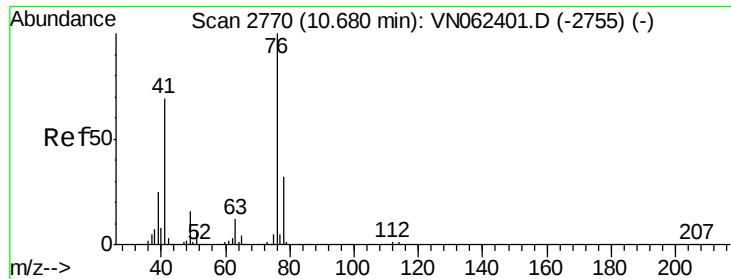


#56

Ethyl methacrylate
 Concen: 1.949 ug/l
 RT: 10.52 min Scan# 2720
 Delta R.T. 0.12 min
 Lab File: VN062480.D
 Acq: 10 Jul 2020 1:28

Tgt Ion	Ratio	Lower	Upper
69	100		
41	6143.4	59.7	89.5#
39	2396.8	30.6	45.8#

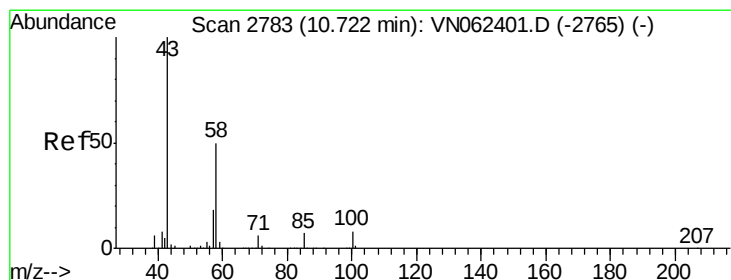
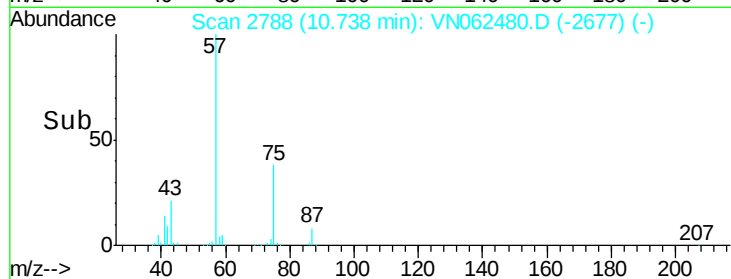
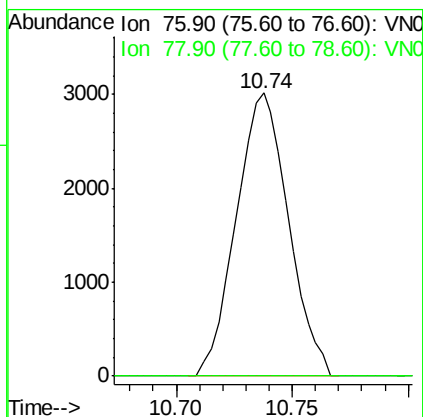
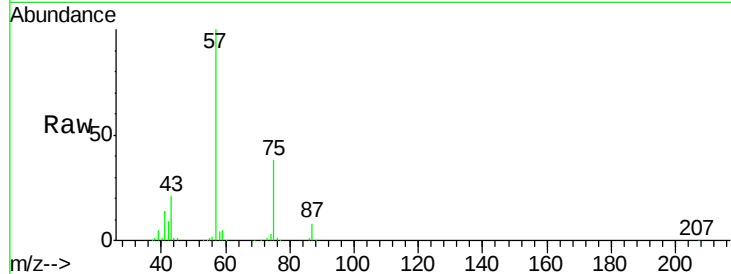




#57
 1,3-Dichloropropane
 Concen: 1.092 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062480.D
 Acq: 10 Jul 2020 1:28

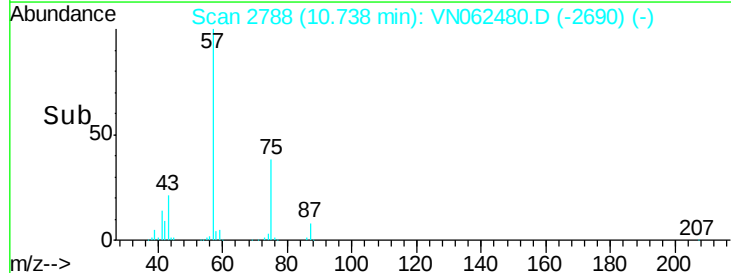
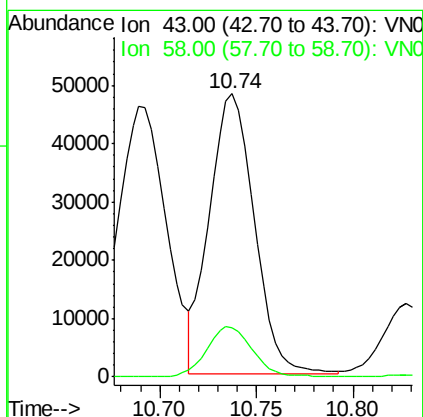
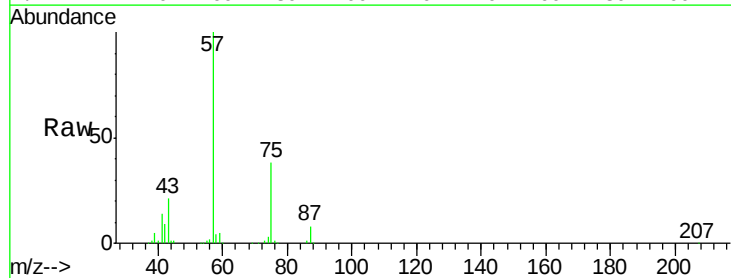
Instrument :
 MSVOA_N
 ClientSampled :
 RO-20

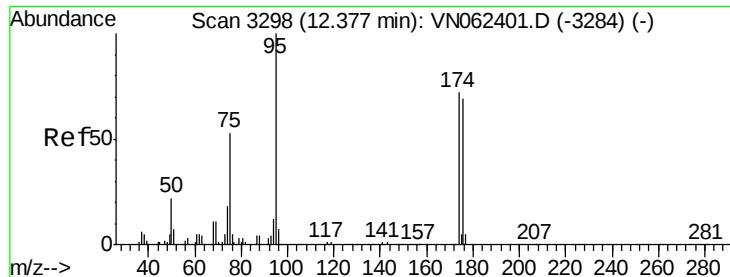
Tot Ion: 76 Resp: 4705
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 27.836 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062480.D
 Acq: 10 Jul 2020 1:28

Tgt Ion: 43 Resp: 77627
 Ion Ratio Lower Upper
 43 100
 58 18.3 25.1 75.2#

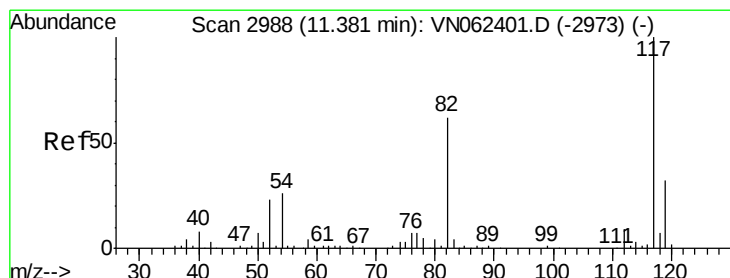
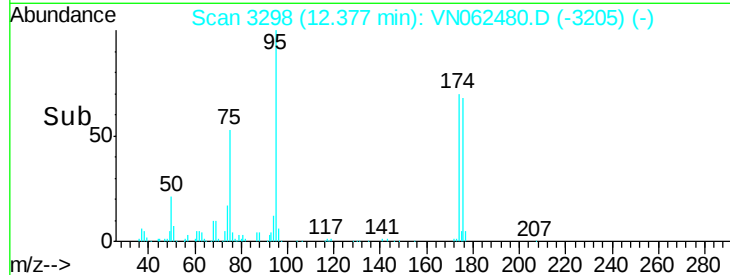
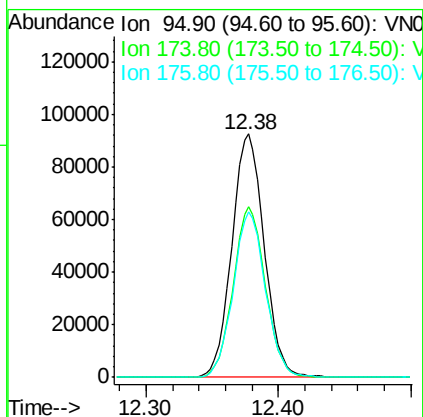
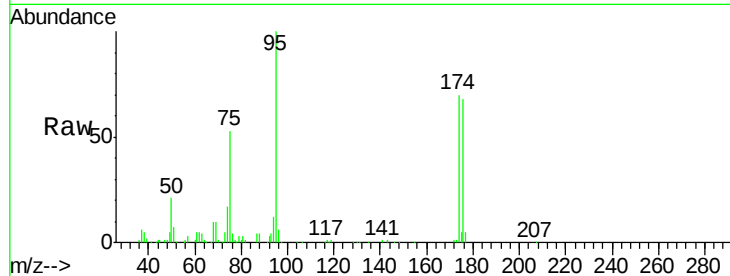




#62
4-Bromofluorobenzene
Concen: 50.919 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062480.D
Acq: 10 Jul 2020 1:28

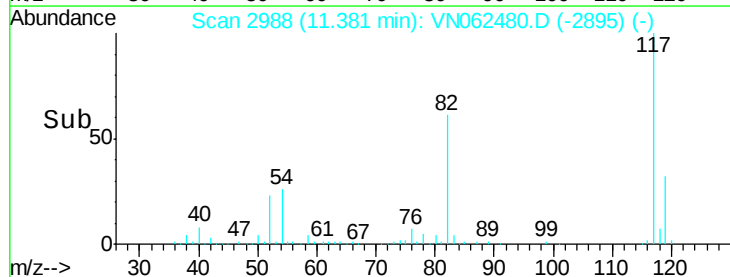
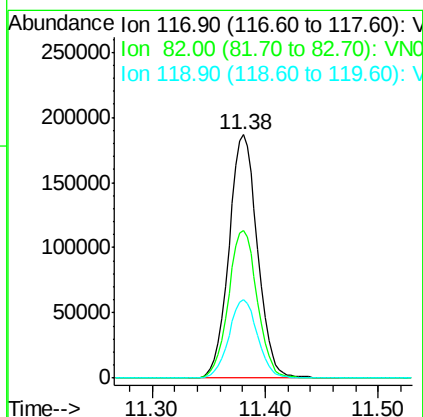
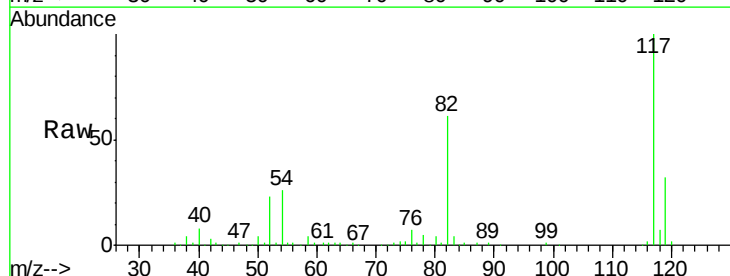
Instrument :
MSVOA_N
ClientSampleId :
RO-20

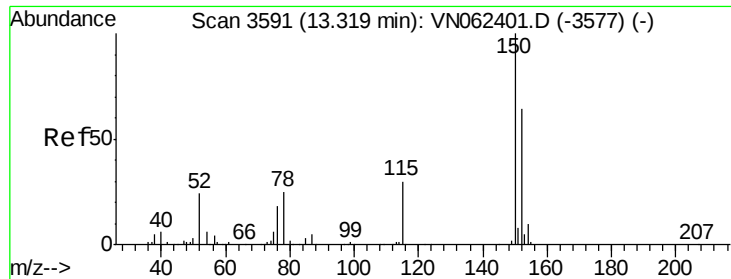
Tot Ion: 95 Resp: 156920
Ion Ratio Lower Upper
95 100
174 69.4 0.0 141.6
176 67.7 0.0 137.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062480.D
Acq: 10 Jul 2020 1:28

Tgt Ion: 117 Resp: 327352
Ion Ratio Lower Upper
117 100
82 60.8 49.6 74.4
119 32.0 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VN062480.D

Acq: 10 Jul 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

RO-20

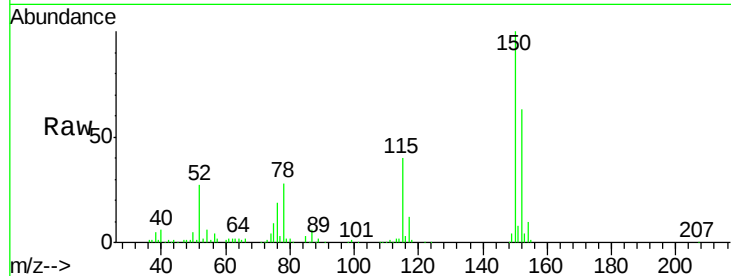
Tot Ion:152 Resp: 116353

Ion Ratio Lower Upper

152 100

115 61.6 31.4 94.2

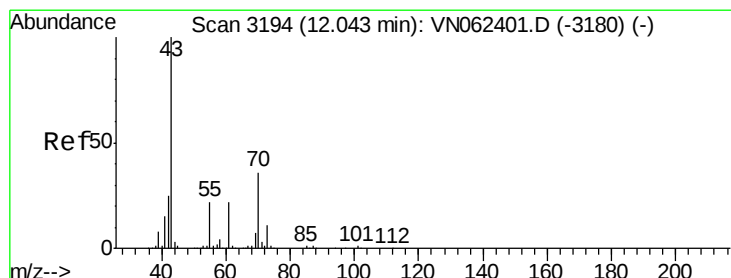
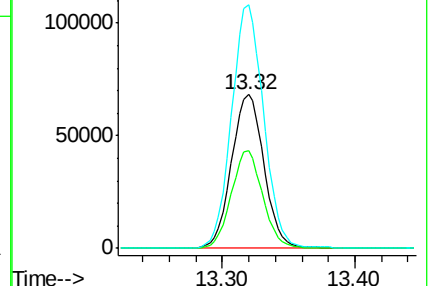
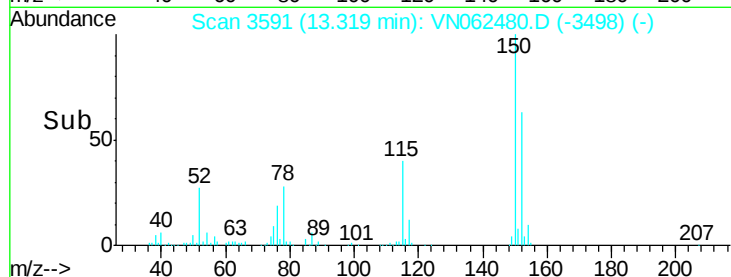
150 157.0 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.716 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062480.D

Acq: 10 Jul 2020 1:28

Tgt Ion: 43 Resp: 3138

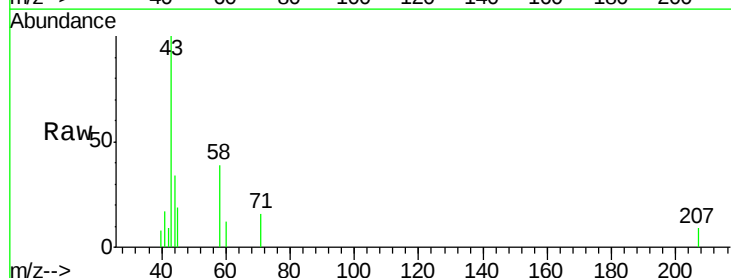
Ion Ratio Lower Upper

43 100

70 0.0 30.0 45.0#

55 4.3 18.2 27.4#

61 0.0 17.7 26.5#

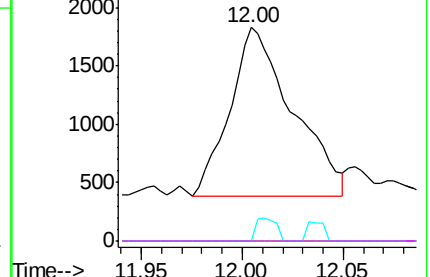
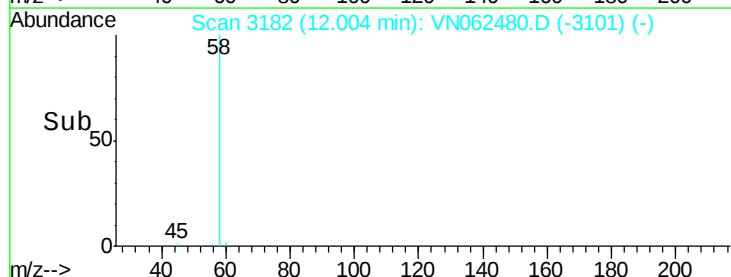


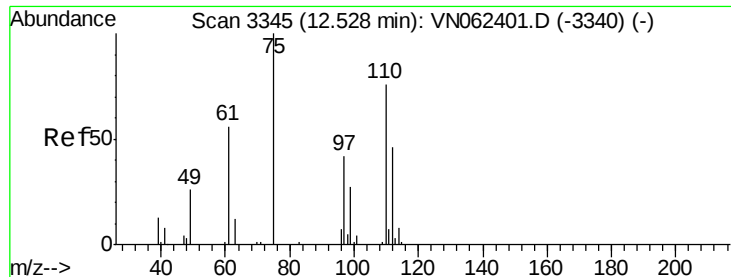
Abundance Ion 43.00 (42.70 to 43.70): V

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: 28.688 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062480.D

Acq: 10 Jul 2020 1:28

Instrument :

MSVOA_N

ClientSampled :

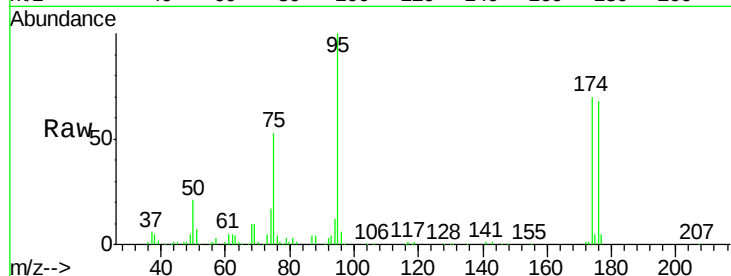
RO-20

Tot Ion: 75 Resp: 81901

Ion Ratio Lower Upper

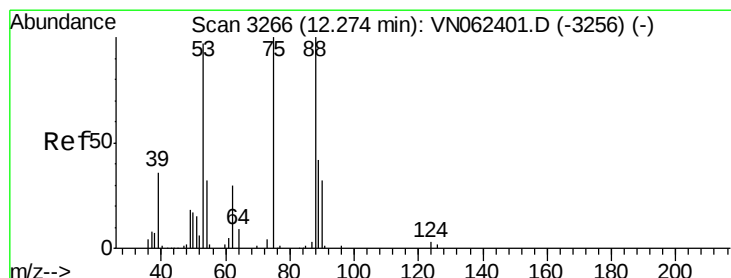
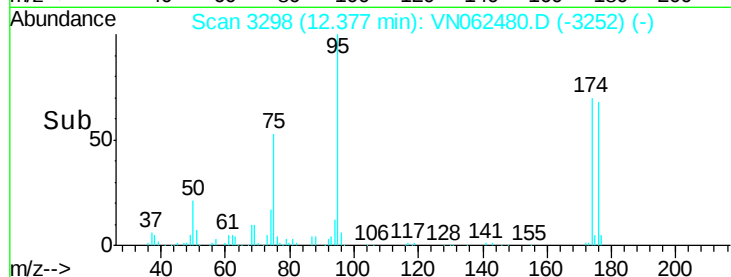
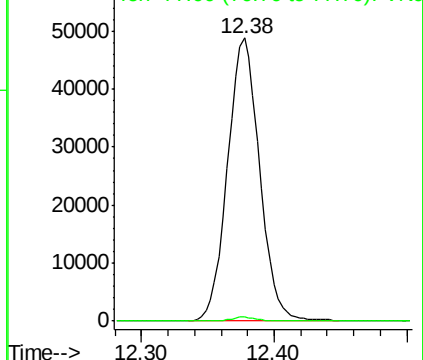
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 76.785 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062480.D

Acq: 10 Jul 2020 1:28

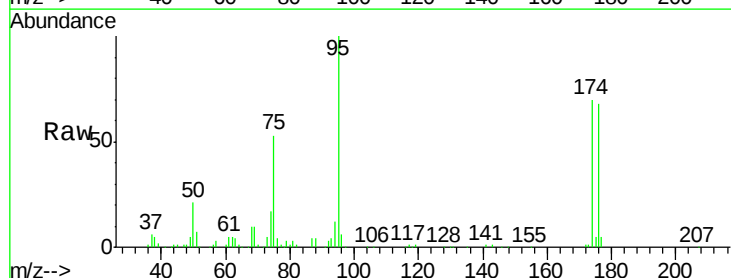
Tgt Ion: 75 Resp: 81901

Ion Ratio Lower Upper

75 100

53 0.0 79.2 118.8#

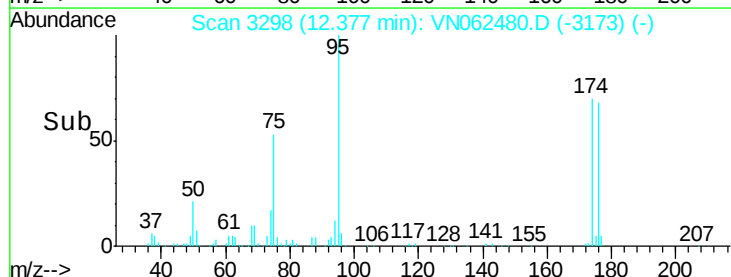
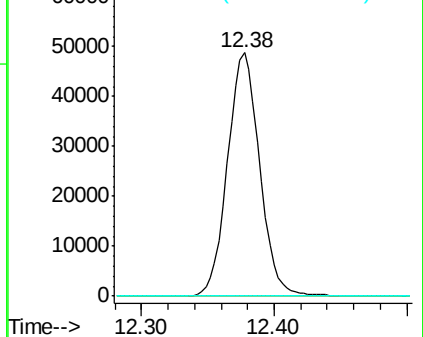
89 0.0 34.6 52.0#

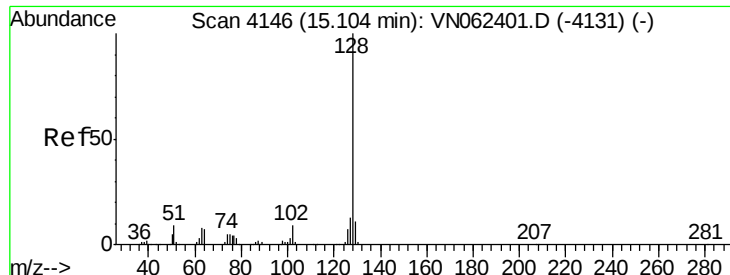


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

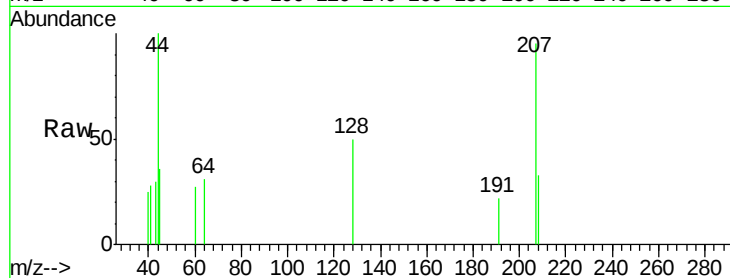




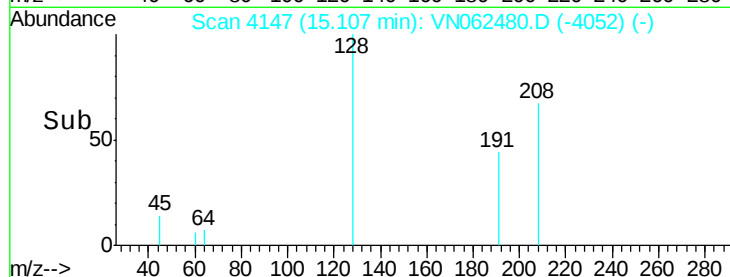
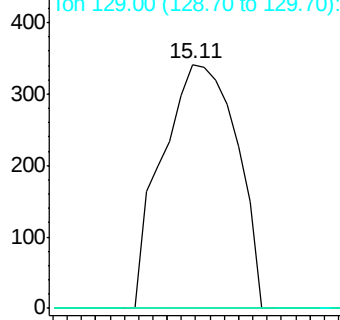
#95
Naphthalene
Concen: Below Cal
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN062480.D
Acq: 10 Jul 2020 1:28

Instrument :
MSVOA_N
ClientSampleId :
RO-20

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	8.6	12.8#



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



Time-->