

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070920\
 Data File : VN062479.D
 Acq On : 10 Jul 2020 1:04
 Operator : JC/MD
 Sample : L3203-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-10

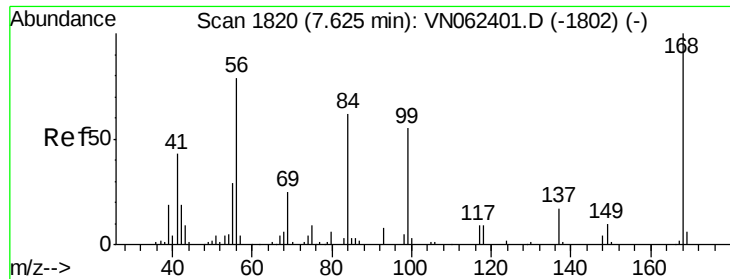
Quant Time: Jul 10 02:13:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 00:55:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	187333	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	350166	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	332124	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	120576	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	147522	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
35) Dibromofluoromethane	7.55	113	109978	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
50) Toluene-d8	10.06	98	446044	52.20	ug/l	0.00
Spiked Amount			Recovery	=	104.40%	
62) 4-Bromofluorobenzene	12.38	95	158446	50.74	ug/l	0.00
Spiked Amount			Recovery	=	101.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	2.66	64	325	0.222	ug/l #	44
8) Diethyl Ether	3.36	74	305	0.214	ug/l #	1
11) Tert butyl alcohol	4.73	59	502	1.050	ug/l #	74
16) Acetone	3.78	43	22035	18.012	ug/l	92
18) Methyl Acetate	4.29	43	6725	2.203	ug/l #	90
20) Methylene Chloride	4.50	84	17250	6.595	ug/l	88
25) 2-Butanone	6.79	43	1394	0.780	ug/l #	88
29) Tetrahydrofuran	7.17	42	420	0.349	ug/l #	39
31) Cyclohexane	7.62	56	4435	1.013	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	16484	4.673	ug/l #	51
38) Carbon Tetrachloride	7.63	117	19698	6.211	ug/l #	14
43) Isopropyl Acetate	8.13	43	77632	11.913	ug/l #	92
45) 1,2-Dichloropropane	9.23	63	1373	0.455	ug/l #	44
48) Methyl methacrylate	9.14	41	4919	1.539	ug/l #	17
51) 4-Methyl-2-Pentanone	9.95	43	7208	1.852	ug/l	95
54) cis-1,3-Dichloropropene	9.87	75	30473	6.769	ug/l #	62
56) Ethyl methacrylate	10.51	69	1078	1.951	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	4973	1.140	ug/l #	43
59) 2-Hexanone	10.74	43	79865	28.264	ug/l #	53
71) Bromoform	12.38	173	942	0.540	ug/l #	1
74) N-amyl acetate	12.01	43	3283	0.723	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	84333	28.505	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	84333	76.296	ug/l #	10
95) Naphthalene	15.11	128	571	Below Cal	#	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062479.D

Acq: 10 Jul 2020 1:04

Instrument :

MSVOA_N

ClientSampled :

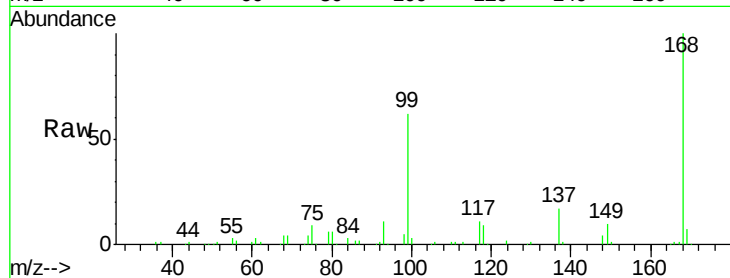
RO-10

Tot Ion:168 Resp: 187333

Ion Ratio Lower Upper

168 100

99 61.8 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

80000

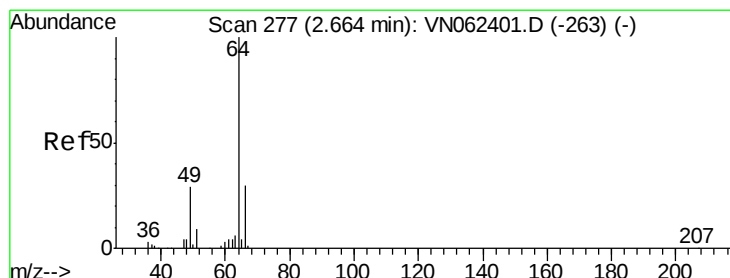
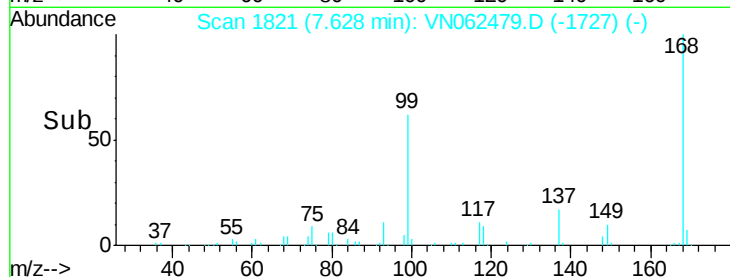
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 0.222 ug/l

RT: 2.66 min Scan# 275

Delta R.T. -0.01 min

Lab File: VN062479.D

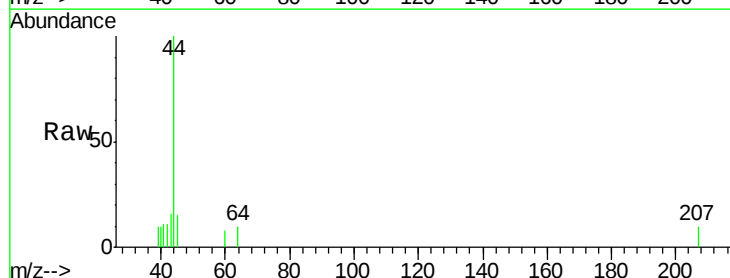
Acq: 10 Jul 2020 1:04

Tgt Ion: 64 Resp: 325

Ion Ratio Lower Upper

64 100

66 0.0 24.2 36.2#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.66

250

200

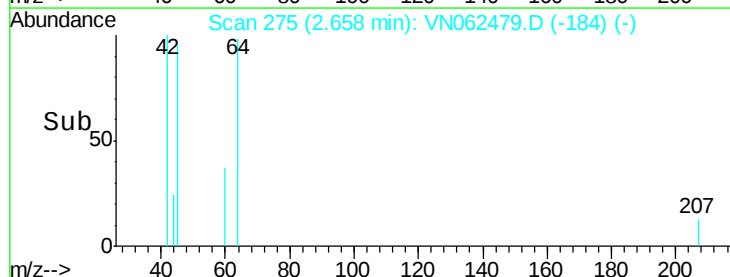
150

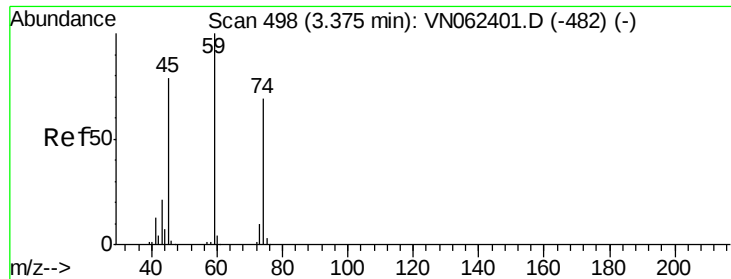
100

50

0

Time-->





#8

Diethyl Ether

Concen: 0.214 ug/l

RT: 3.36 min Scan# 495

Delta R.T. -0.01 min

Lab File: VN062479.D

Acq: 10 Jul 2020 1:04

Instrument :

MSVOA_N

ClientSampled :

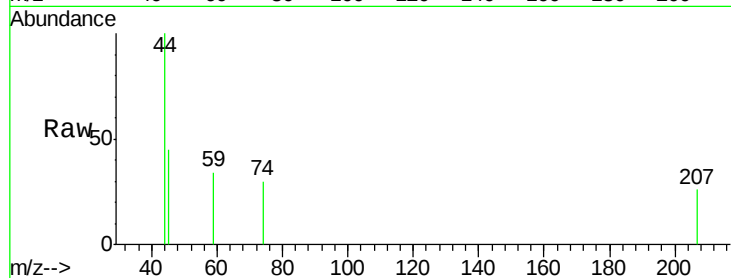
RO-10

Tot Ion: 74 Resp: 305

Ion Ratio Lower Upper

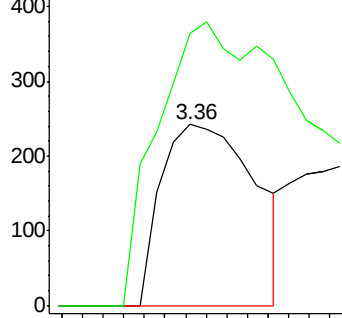
74 100

45 251.5 58.5 175.3#

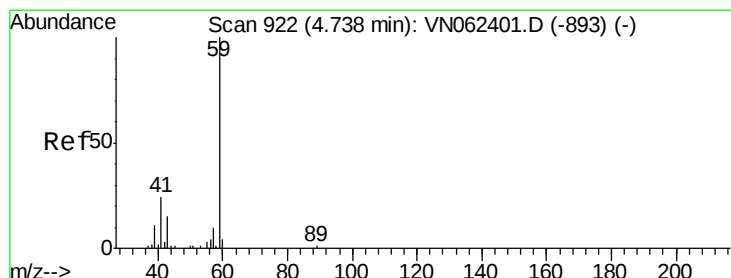
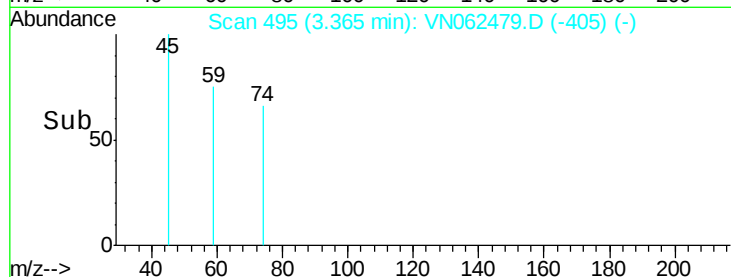


Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



Time-->



#11

Tert butyl alcohol

Concen: 1.050 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.01 min

Lab File: VN062479.D

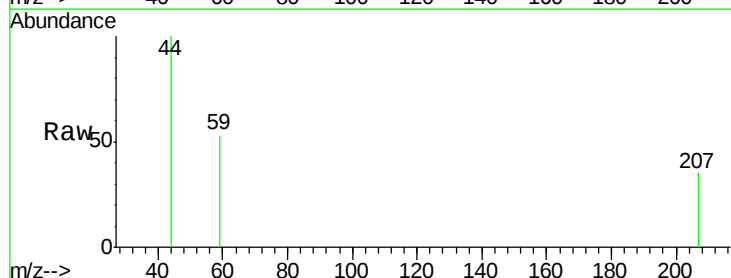
Acq: 10 Jul 2020 1:04

Tgt Ion: 59 Resp: 502

Ion Ratio Lower Upper

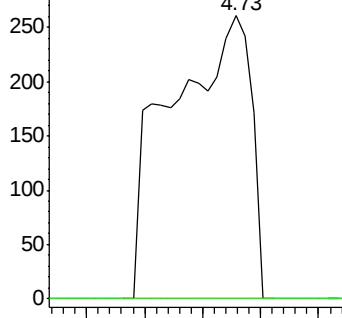
59 100

57 0.0 7.8 11.6#

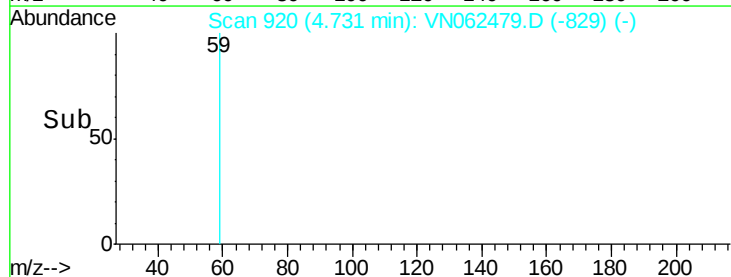


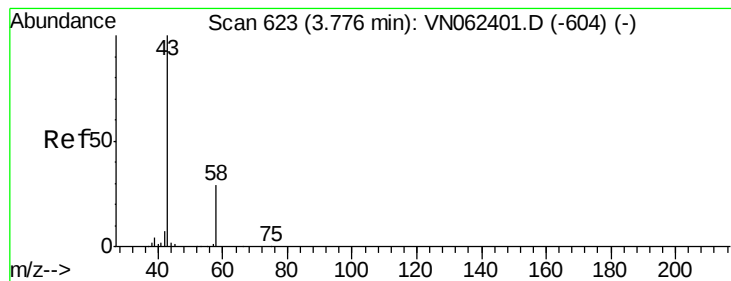
Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



Time-->





#16

Acetone

Concen: 18.012 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN062479.D

Acq: 10 Jul 2020 1:04

Instrument :

MSVOA_N

ClientSampled :

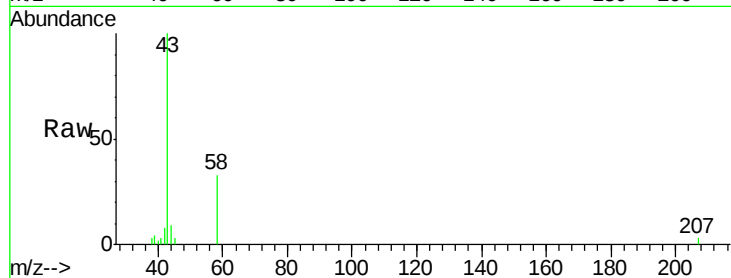
RO-10

Tot Ion: 43 Resp: 22035

Ion Ratio Lower Upper

43 100

58 33.5 23.5 35.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

8000

6000

4000

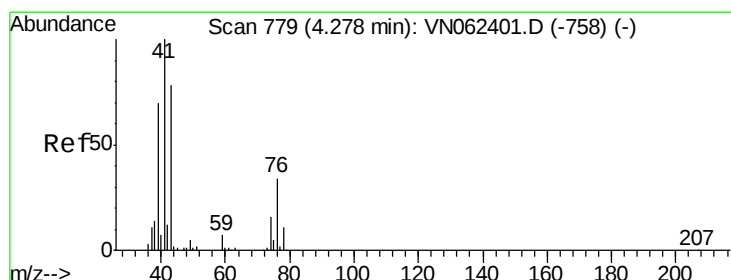
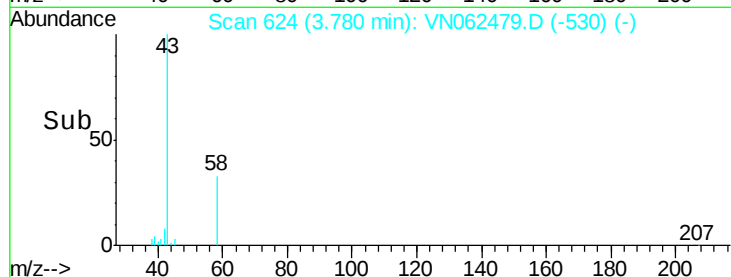
2000

0

Time-->

3.70 3.75 3.80 3.85

3.78



#18

Methyl Acetate

Concen: 2.203 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.01 min

Lab File: VN062479.D

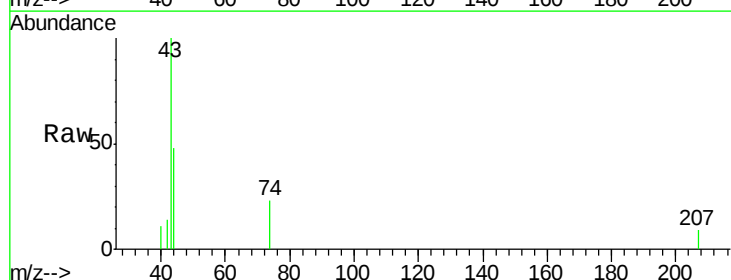
Acq: 10 Jul 2020 1:04

Tgt Ion: 43 Resp: 6725

Ion Ratio Lower Upper

43 100

74 15.5 16.0 24.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

2000

1500

1000

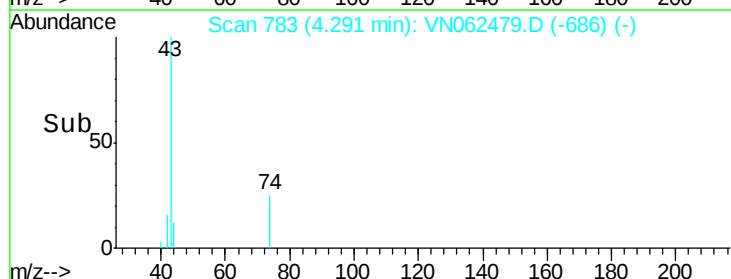
500

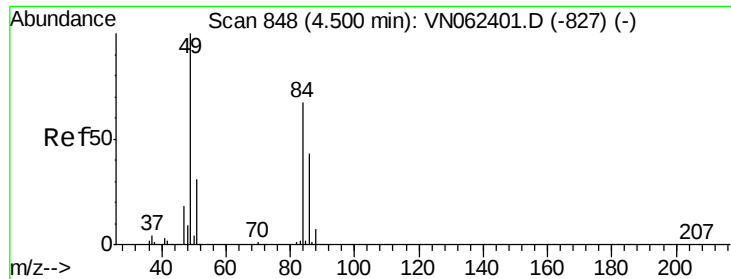
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Time-->

4.20 4.25 4.30 4.35 4.40

4.29

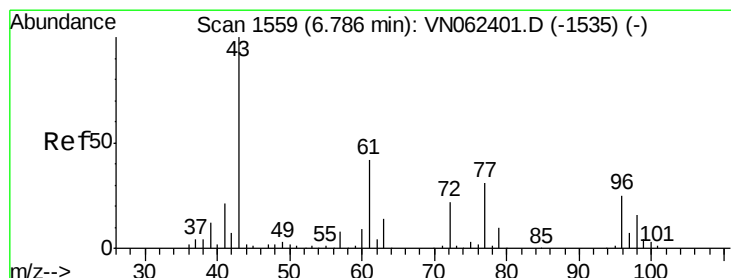
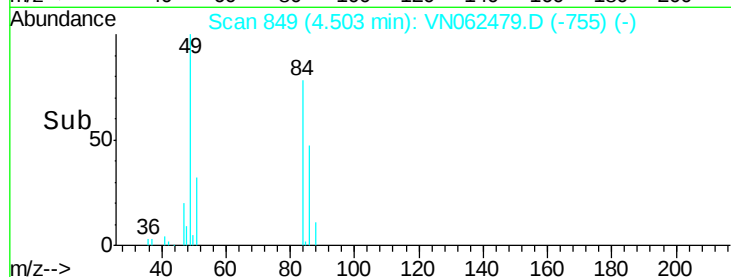
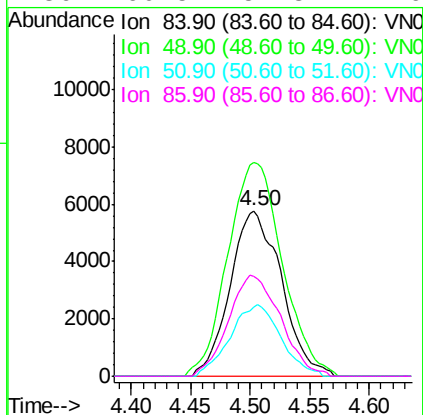
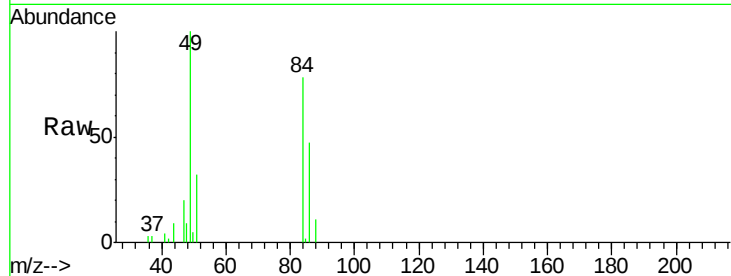




#20
Methvlene Chloride
Concen: 6.595 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062479.D
Acq: 10 Jul 2020 1:04

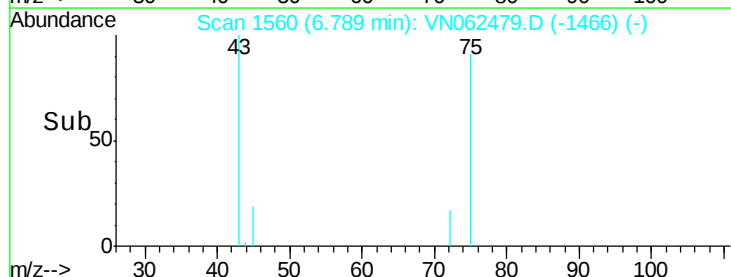
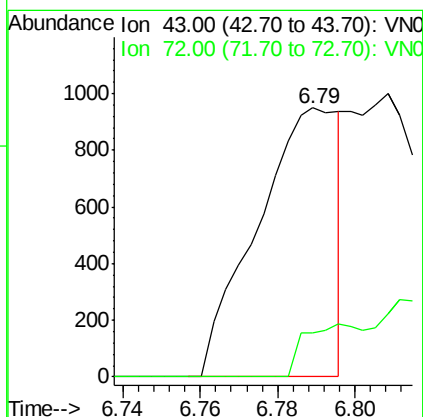
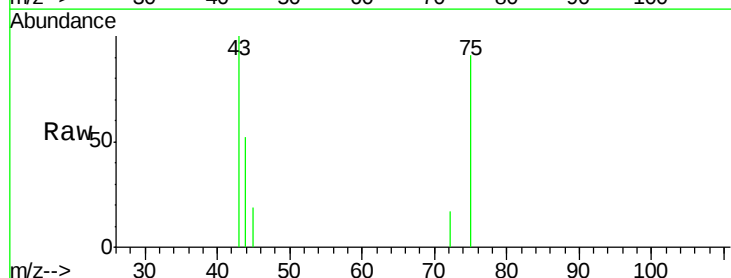
Instrument :
MSVOA_N
ClientSampled :
RO-10

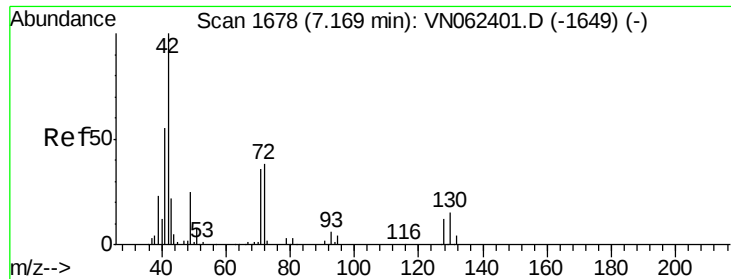
Tot Ion:	84	Resp:	17250
Ion	Ratio	Lower	Upper
84	100		
49	129.0	120.0	180.0
51	41.4	37.0	55.6
86	60.5	51.8	77.6



#25
2-Butanone
Concen: 0.780 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VN062479.D
Acq: 10 Jul 2020 1:04

Tgt Ion:	43	Resp:	1394
Ion	Ratio	Lower	Upper
43	100		
72	16.5	17.9	26.9#

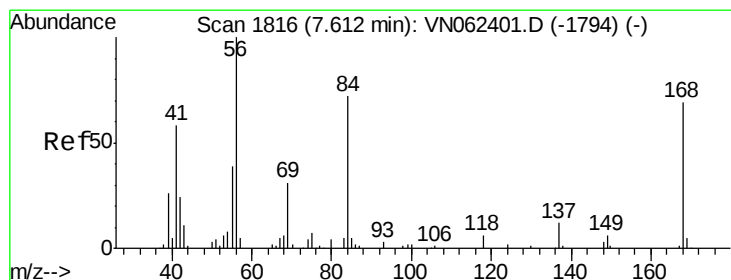
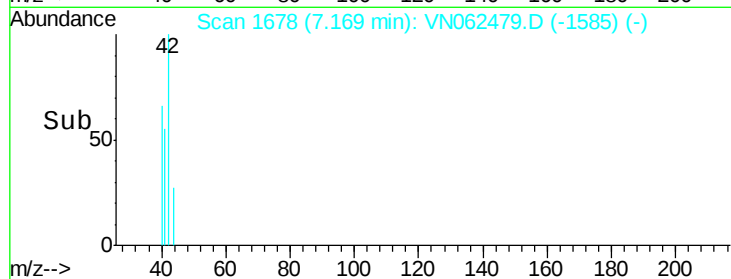
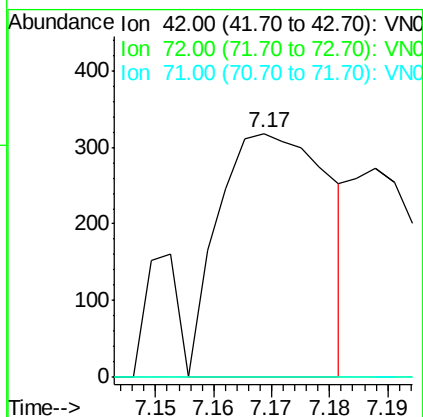
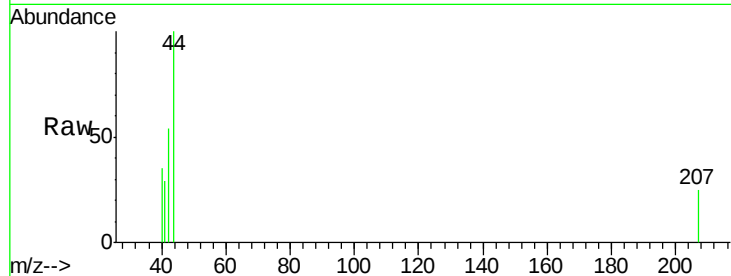




#29
Tetrahydrofuran
Concen: 0.349 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN062479.D
Acq: 10 Jul 2020 1:04

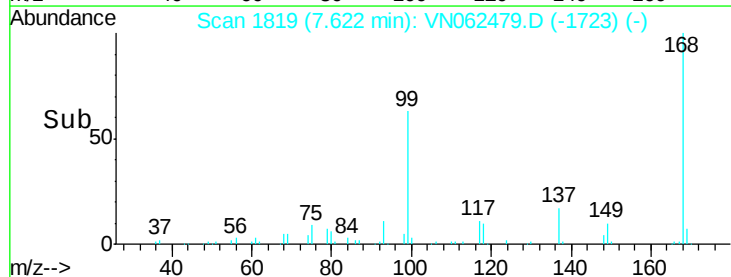
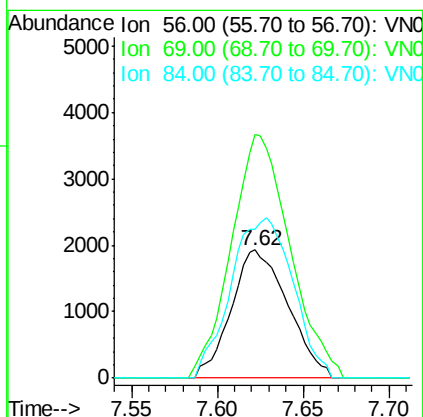
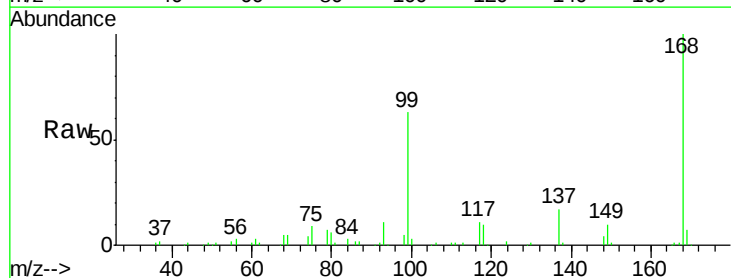
Instrument :
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ClientSampleId :
RO-10

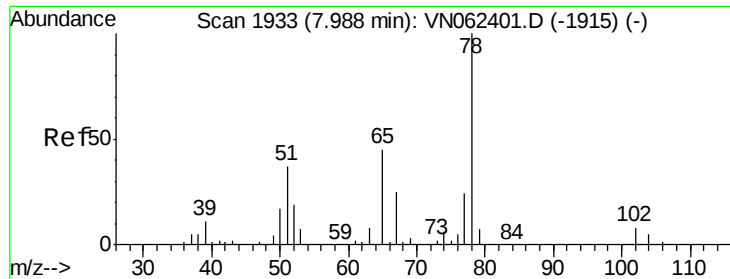
Tot Ion: 42 Resp: 420
Ion Ratio Lower Upper
42 100
72 0.0 29.1 43.7#
71 0.0 28.1 42.1#



#31
Cyclohexane
Concen: 1.013 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN062479.D
Acq: 10 Jul 2020 1:04

Tgt Ion: 56 Resp: 4435
Ion Ratio Lower Upper
56 100
69 190.4 24.5 36.7#
84 116.2 57.4 86.2#

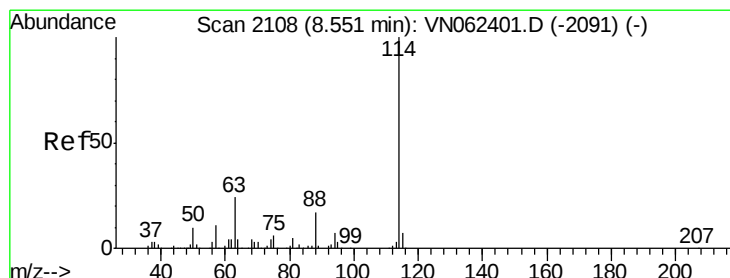
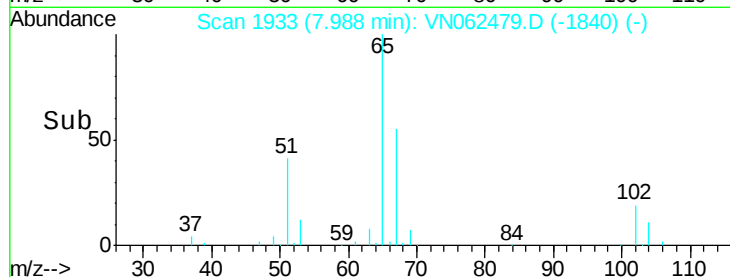
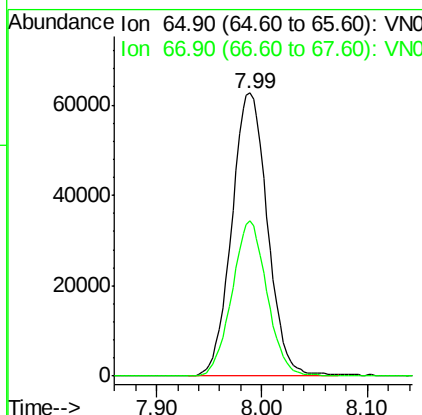
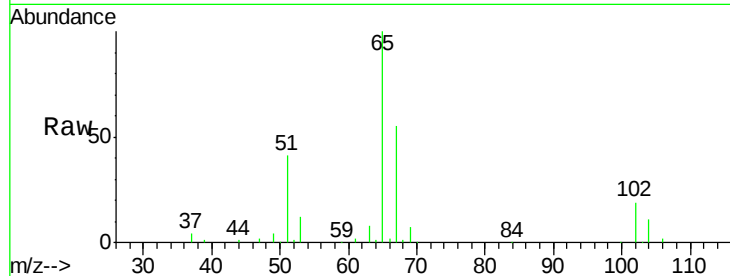




#33
 1,2-Dichloroethane-d4
 Concen: 51.198 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062479.D
 Acq: 10 Jul 2020 1:04

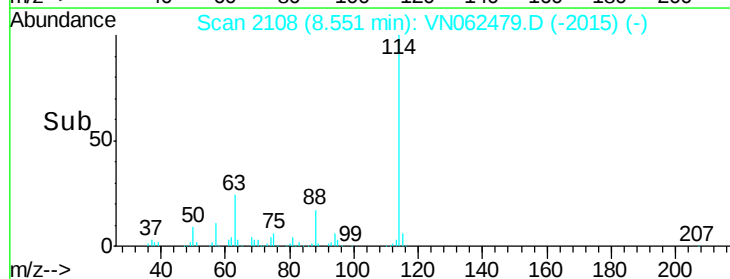
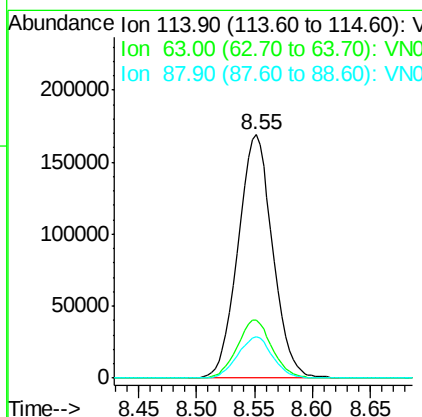
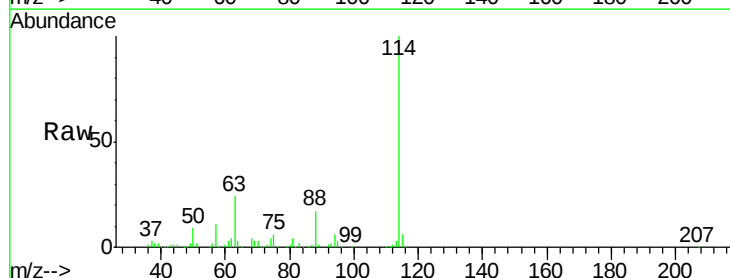
Instrument :
 MSVOA_N
 ClientSampleId :
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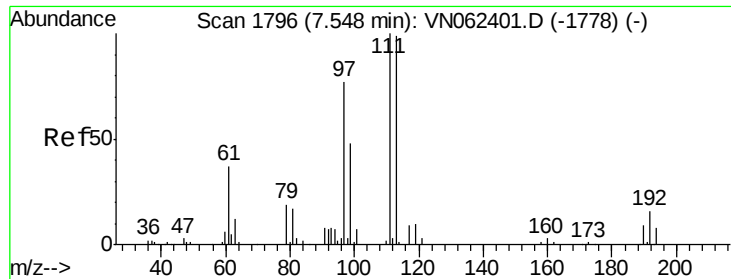
Tot Ion: 65 Resp: 147522
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062479.D
 Acq: 10 Jul 2020 1:04

Tgt Ion: 114 Resp: 350166
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 48.4
 88 16.8 0.0 33.8

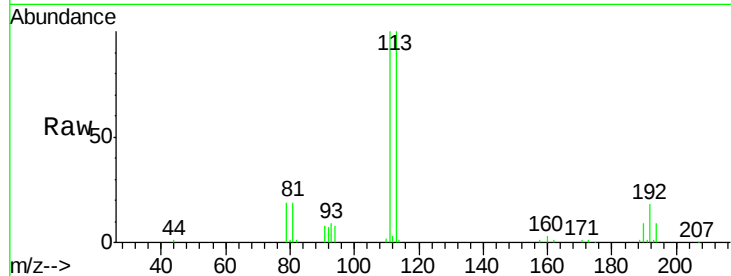




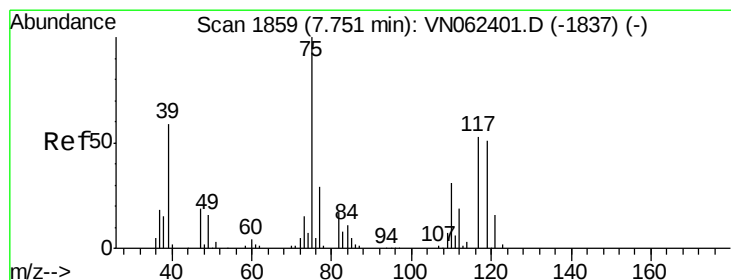
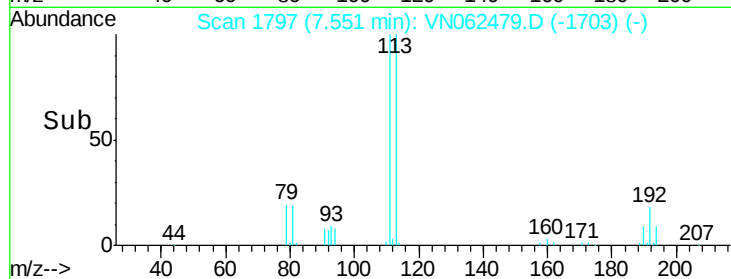
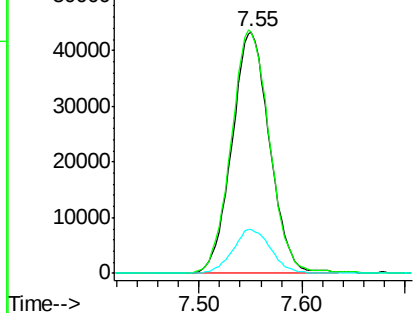
#35
 Dibromofluoromethane
 Concen: 50.810 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062479.D
 Acq: 10 Jul 2020 1:04

Instrument :
 MSVOA_N
 ClientSampleId :
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Tot Ion:113 Resp: 109978
 Ion Ratio Lower Upper
 113 100
 111 103.0 83.1 124.7
 192 18.3 14.1 21.1

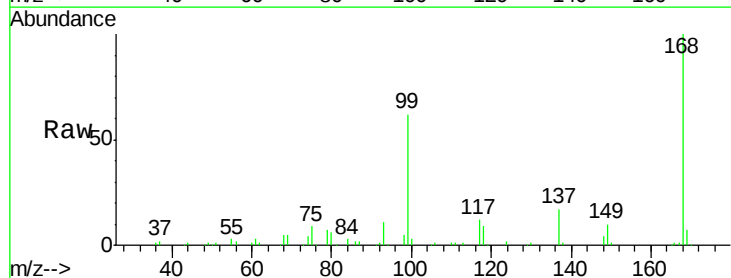


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

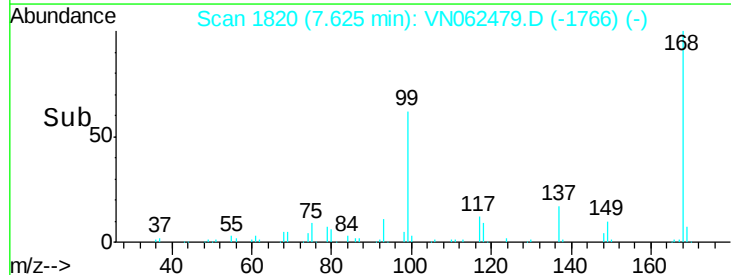
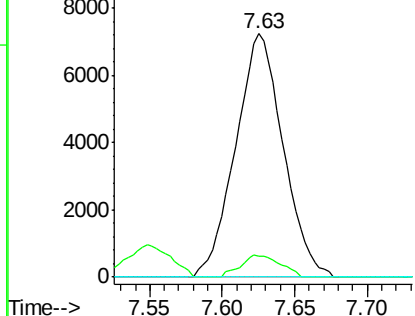


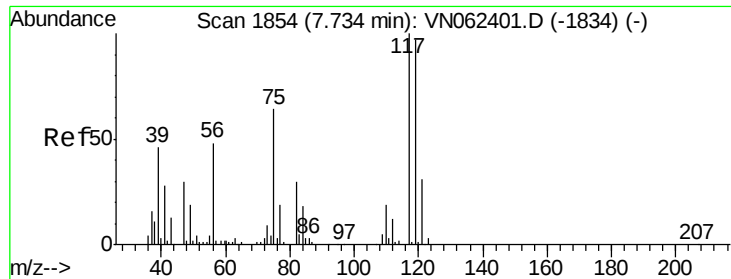
#36
 1,1-Dichloropropene
 Concen: 4.673 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062479.D
 Acq: 10 Jul 2020 1:04

Tgt Ion: 75 Resp: 16484
 Ion Ratio Lower Upper
 75 100
 110 7.5 15.4 46.2#
 77 0.0 24.1 36.1#



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





#38

Carbon Tetrachloride

Concen: 6.211 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062479.D

Acq: 10 Jul 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

RO-10

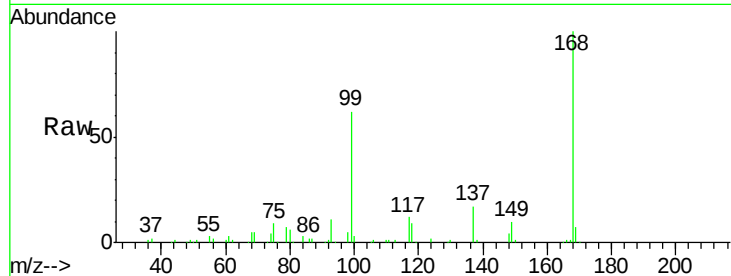
Tot Ion:117 Resp: 19698

Ion Ratio Lower Upper

117 100

119 3.5 77.2 115.8#

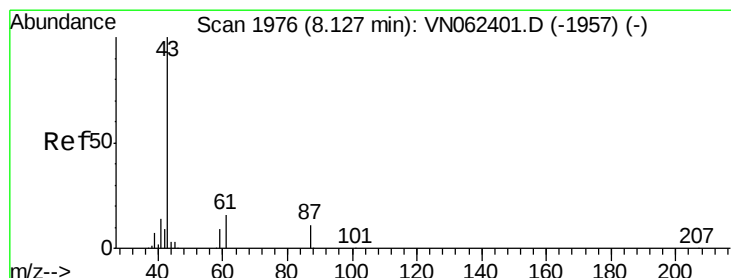
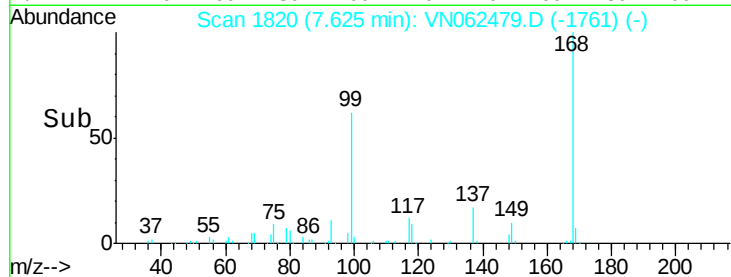
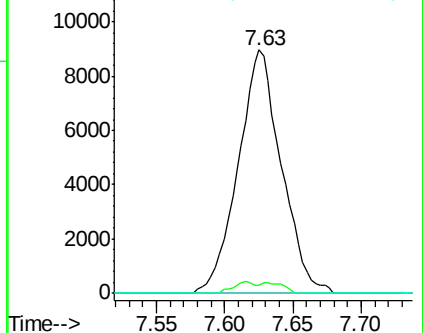
121 0.0 24.8 37.2#



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: 11.913 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062479.D

Acq: 10 Jul 2020 1:04

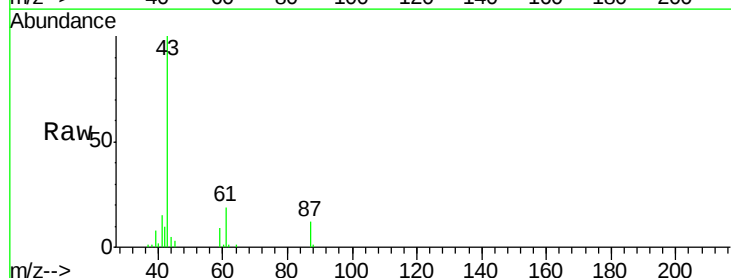
Tgt Ion: 43 Resp: 77632

Ion Ratio Lower Upper

43 100

61 19.1 19.3 28.9#

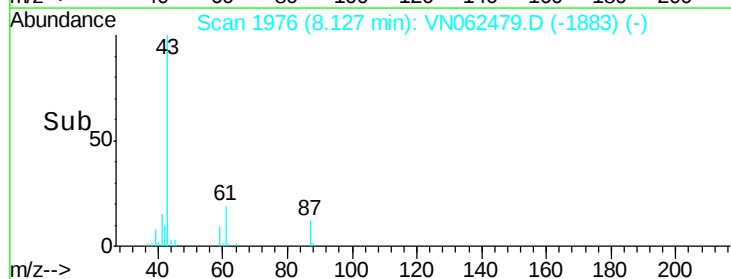
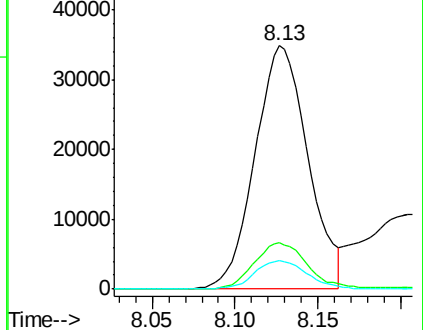
87 11.5 8.6 13.0

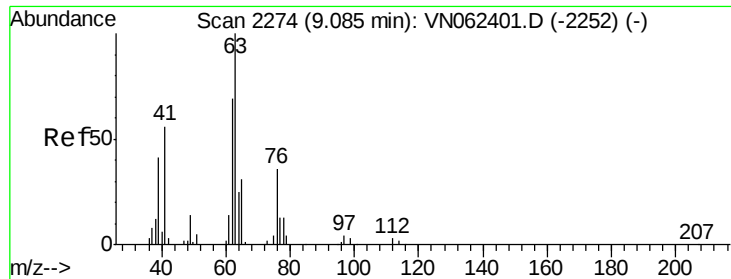


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.455 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062479.D

Acq: 10 Jul 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

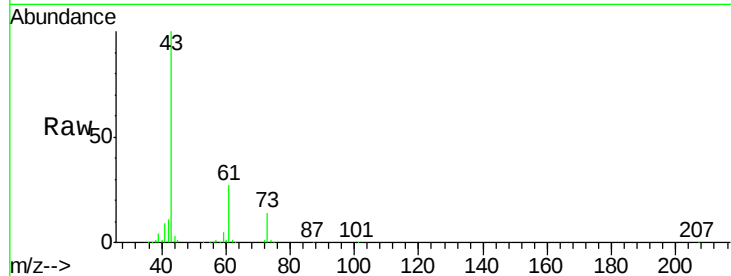
RO-10

Tot Ion: 63 Resp: 1373

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

9.23

800

600

400

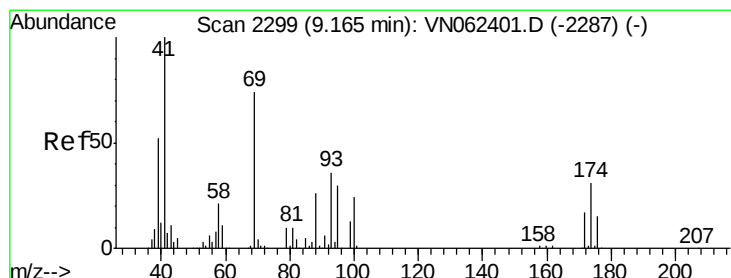
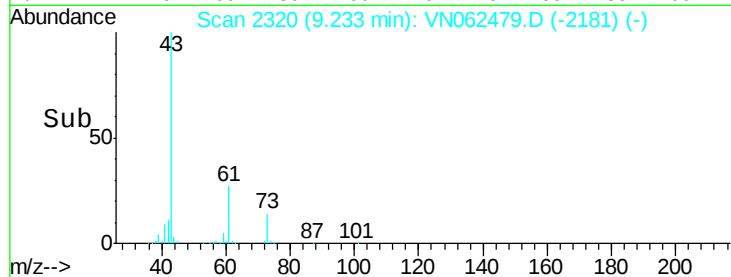
200

0

9.20

9.25

Time-->



#48

Methyl methacrylate

Concen: 1.539 ug/l

RT: 9.14 min Scan# 2292

Delta R.T. -0.02 min

Lab File: VN062479.D

Acq: 10 Jul 2020 1:04

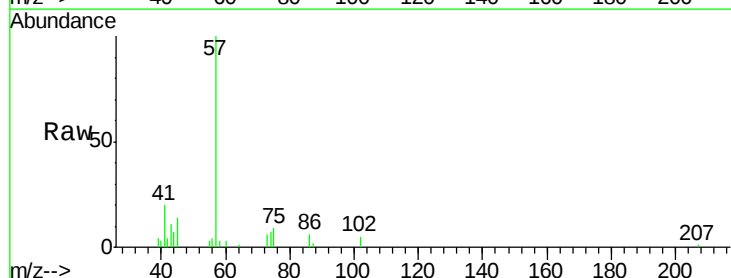
Tgt Ion: 41 Resp: 4919

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

80000

60000

40000

20000

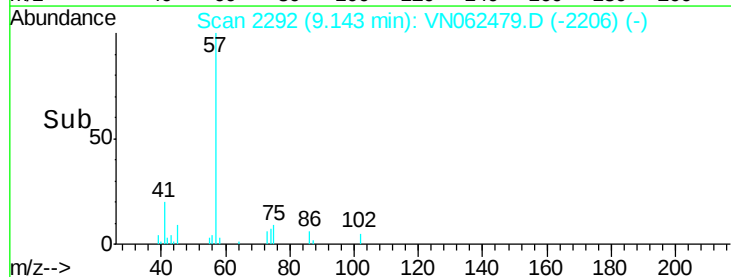
0

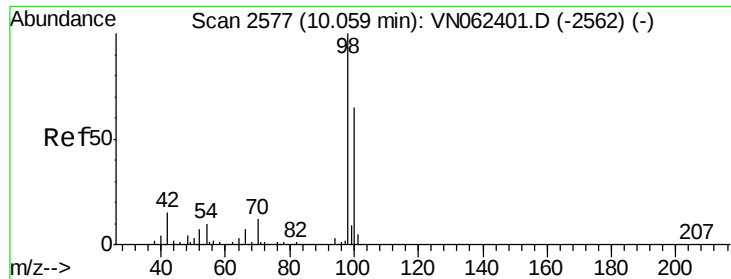
9.10

9.15

9.20

Time-->





#50

Toluene-d8

Concen: 52.201 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062479.D

Acq: 10 Jul 2020 1:04

Instrument :

MSVOA_N

ClientSampled :

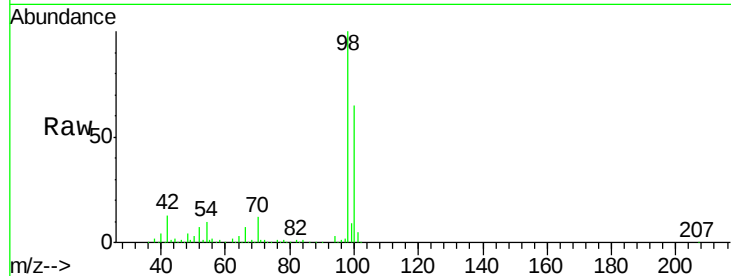
RO-10

Tot Ion: 98 Resp: 446044

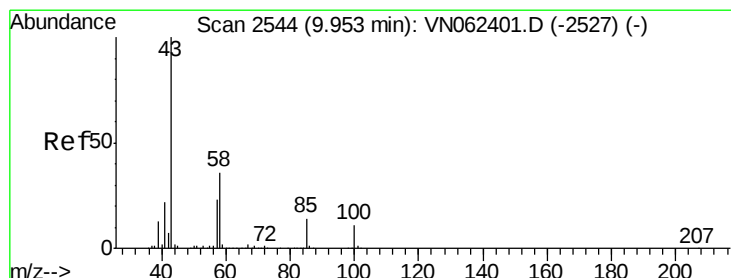
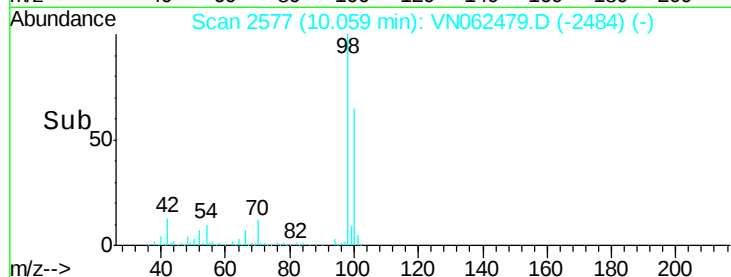
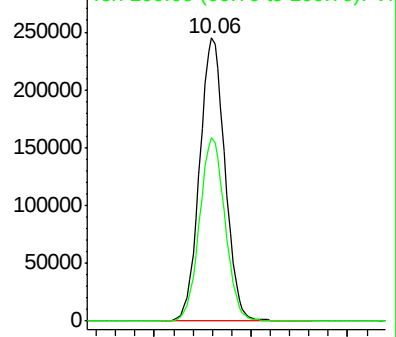
Ion Ratio Lower Upper

98 100

100 65.0 51.5 77.3



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



#51

4-Methyl-2-Pentanone

Concen: 1.852 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN062479.D

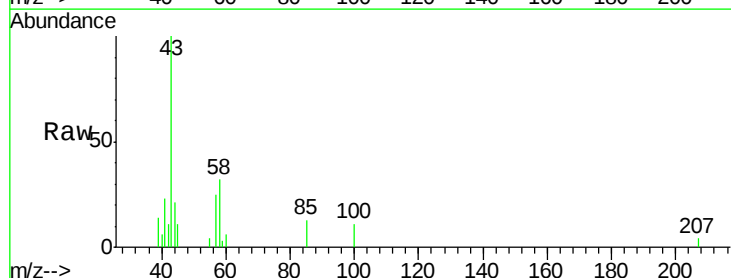
Acq: 10 Jul 2020 1:04

Tgt Ion: 43 Resp: 7208

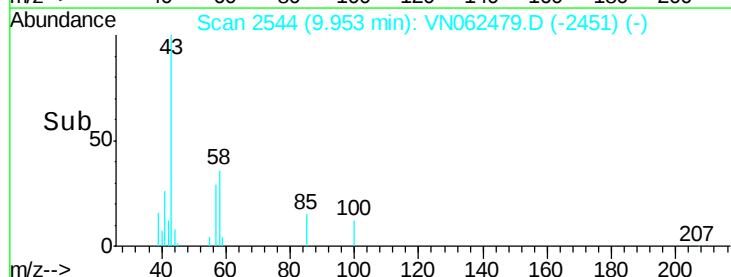
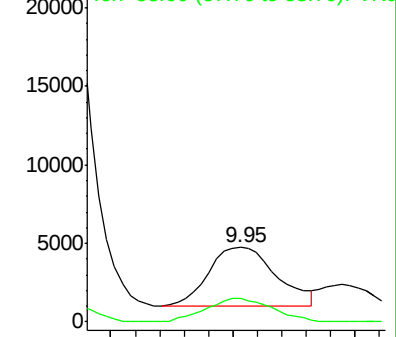
Ion Ratio Lower Upper

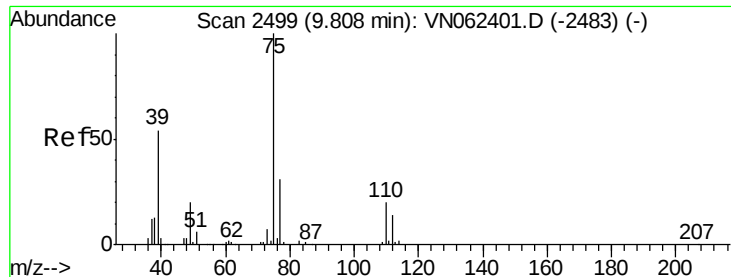
43 100

58 39.0 29.0 43.6



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





#54

cis-1,3-Dichloropropene

Concen: 6.769 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062479.D

Acq: 10 Jul 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

RO-10

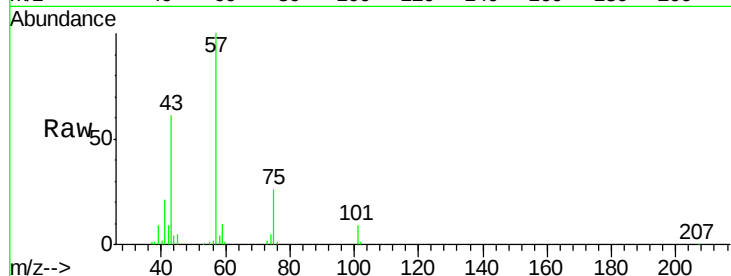
Tot Ion: 75 Resp: 30473

Ion Ratio Lower Upper

75 100

77 0.0 24.5 36.7#

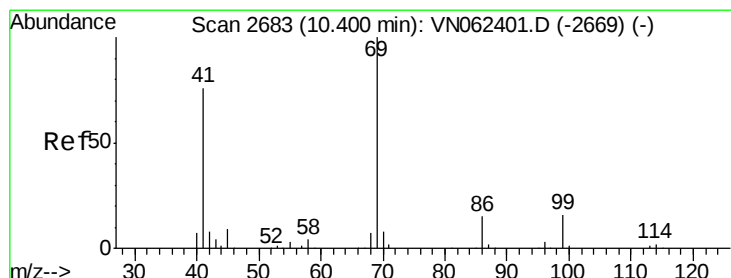
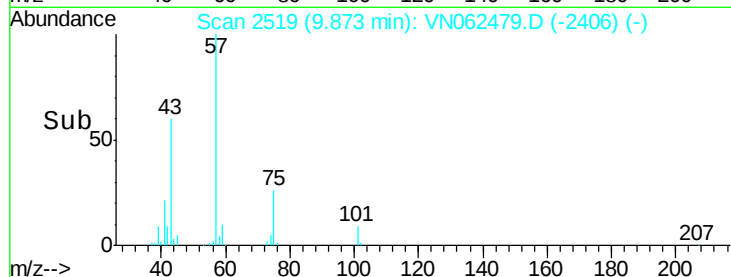
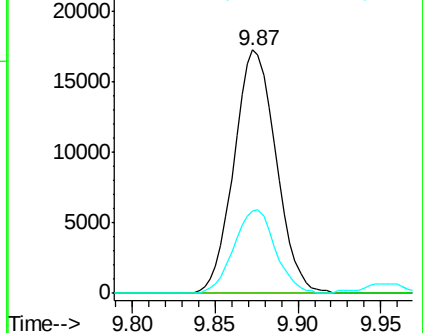
39 34.0 43.4 65.0#



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: 1.951 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN062479.D

Acq: 10 Jul 2020 1:04

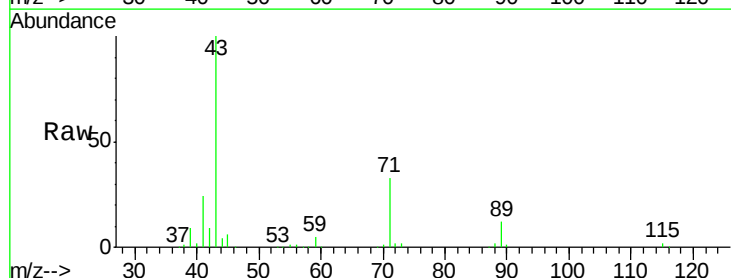
Tgt Ion: 69 Resp: 1078

Ion Ratio Lower Upper

69 100

41 6061.7 59.7 89.5#

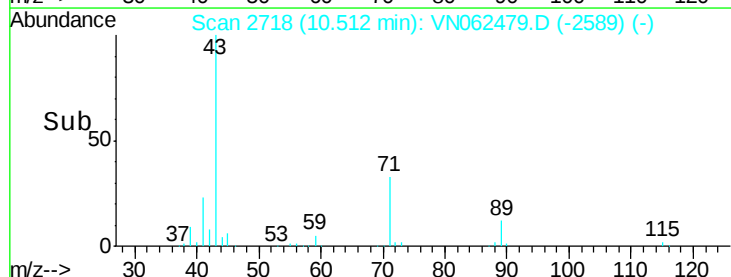
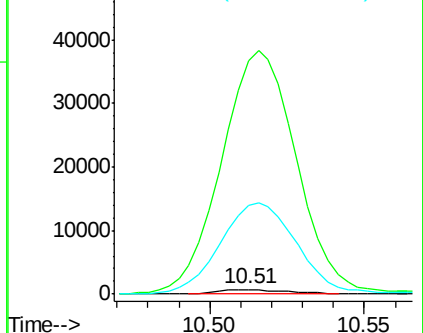
39 2298.3 30.6 45.8#

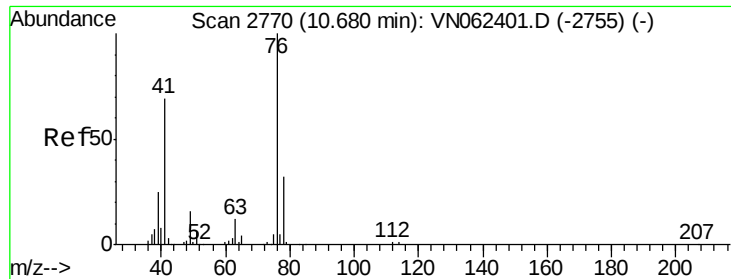


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

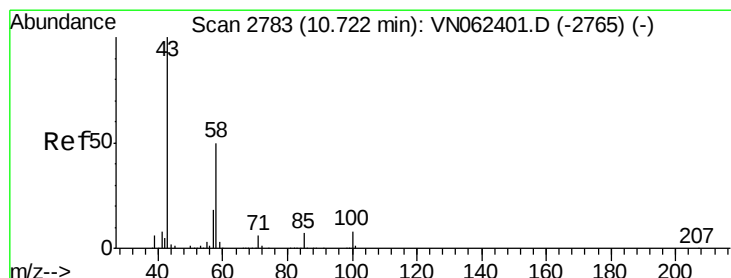
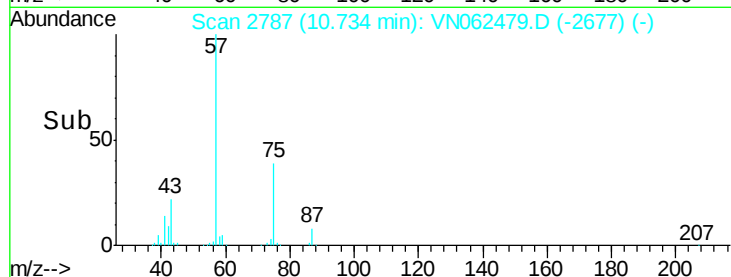
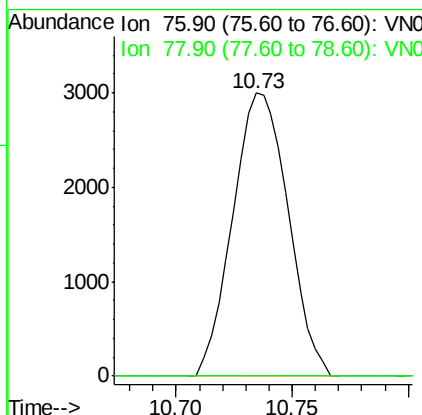
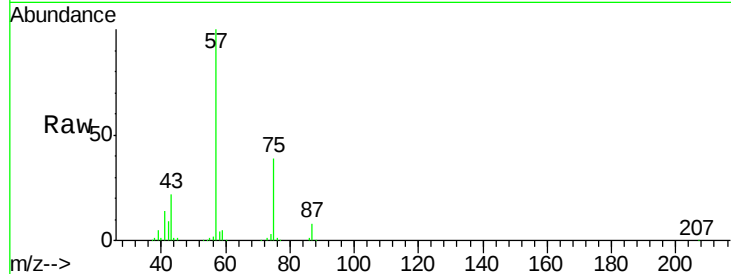




#57
 1,3-Dichloropropane
 Concen: 1.140 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.05 min
 Lab File: VN062479.D
 Acq: 10 Jul 2020 1:04

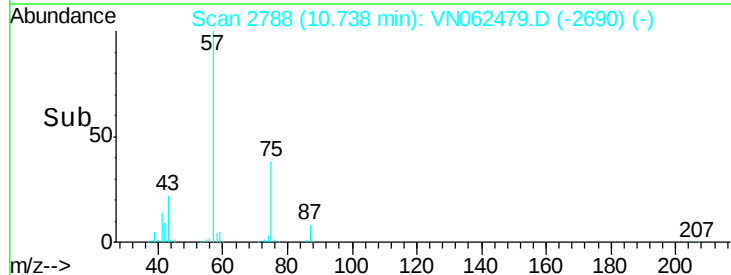
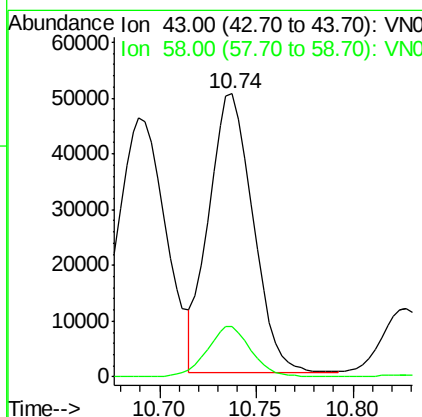
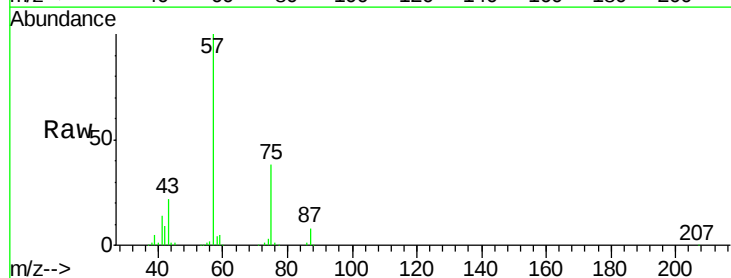
Instrument :
 MSVOA_N
 ClientSampled :
 RO-10

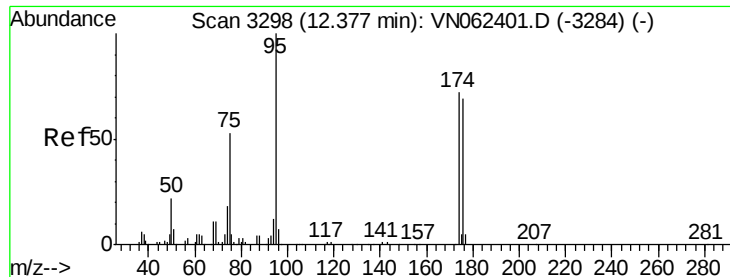
Tot Ion: 76 Resp: 4973
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 28.264 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062479.D
 Acq: 10 Jul 2020 1:04

Tgt Ion: 43 Resp: 79865
 Ion Ratio Lower Upper
 43 100
 58 17.9 25.1 75.2#





#62

4-Bromofluorobenzene

Concen: 50.743 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062479.D

Acq: 10 Jul 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

RO-10

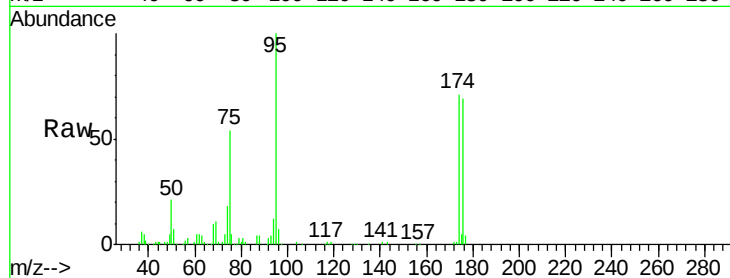
Tot Ion: 95 Resp: 158446

Ion Ratio Lower Upper

95 100

174 70.5 0.0 141.6

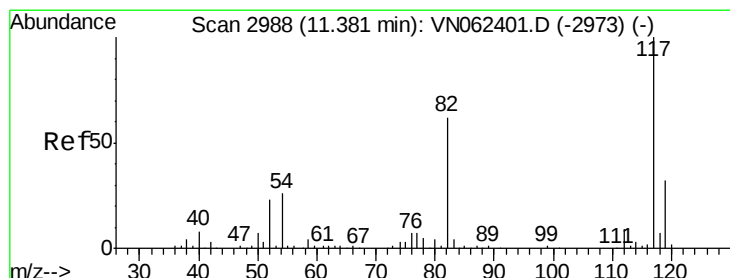
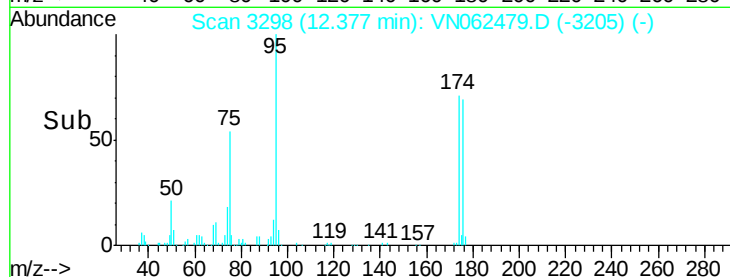
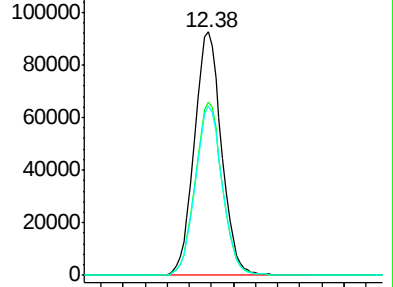
176 69.2 0.0 137.2



Abundance Ion 94.90 (94.60 to 95.60): VN062479.D (-2895) (-)

Ion 173.80 (173.50 to 174.50): VN062479.D (-2895) (-)

Ion 175.80 (175.50 to 176.50): VN062479.D (-2895) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN062479.D

Acq: 10 Jul 2020 1:04

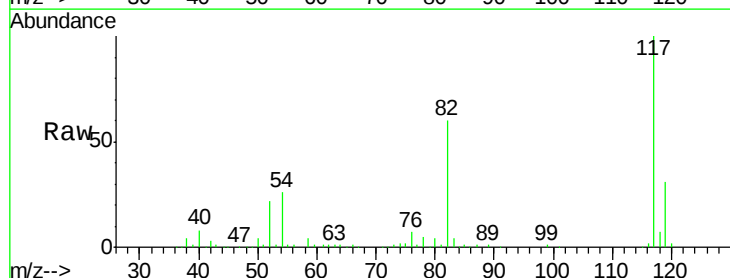
Tgt Ion: 117 Resp: 332124

Ion Ratio Lower Upper

117 100

82 60.1 49.6 74.4

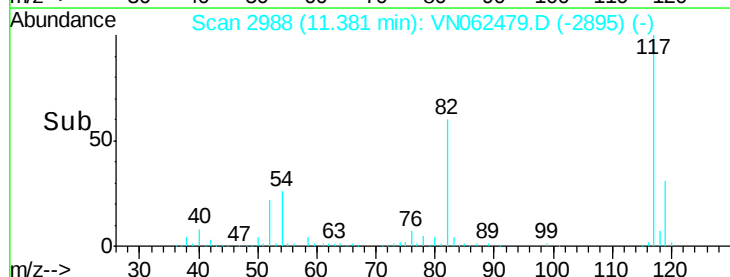
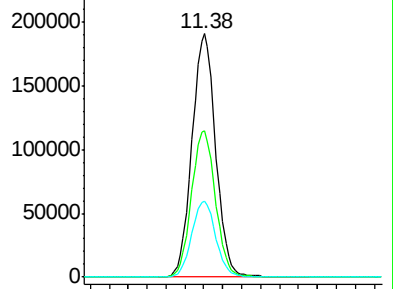
119 31.1 25.4 38.0

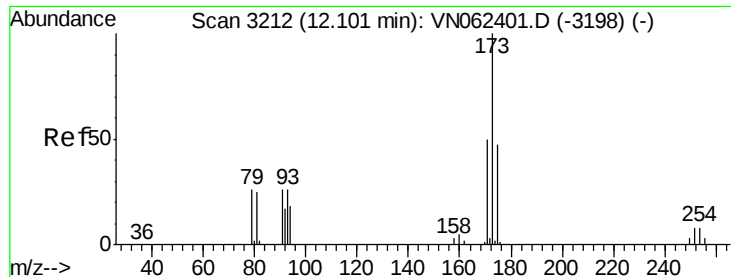


Abundance Ion 116.90 (116.60 to 117.60): VN062479.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062479.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062479.D (-2895) (-)

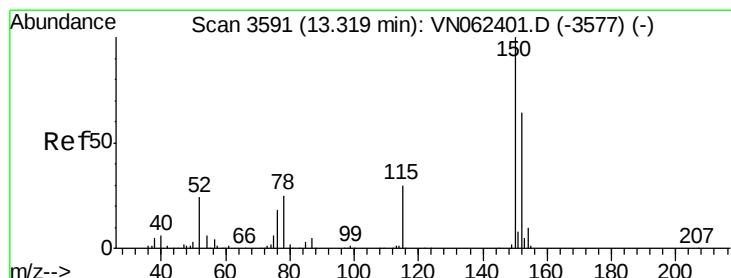
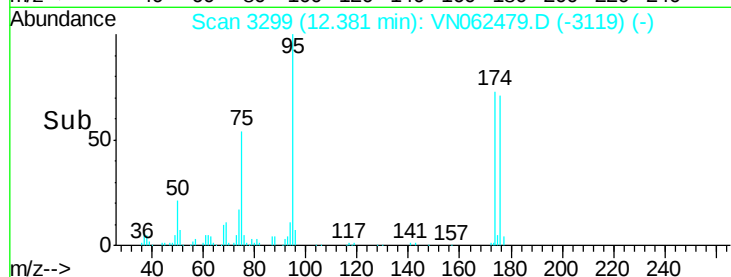
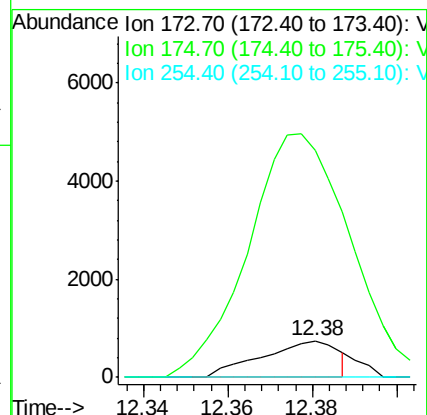
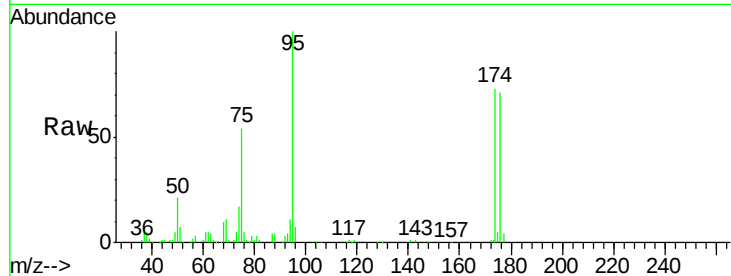




#71
Bromoform
Concen: 0.540 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.28 min
Lab File: VN062479.D
Acq: 10 Jul 2020 1:04

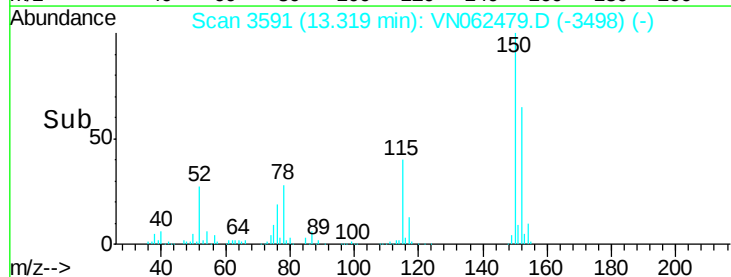
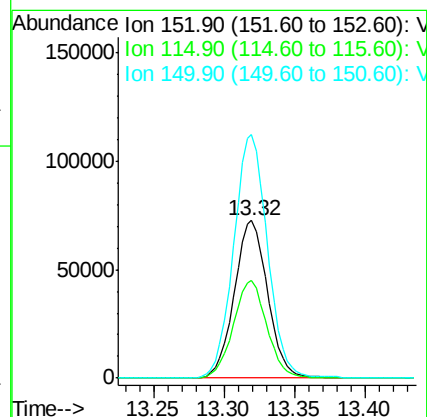
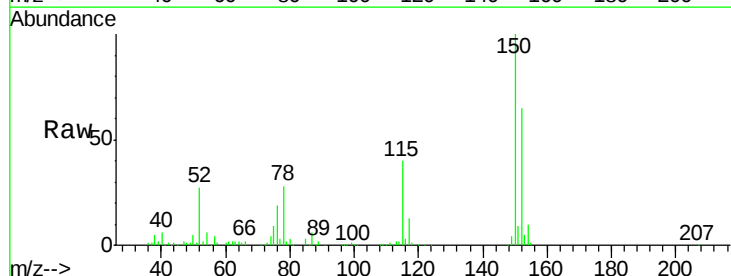
Instrument :
MSVOA_N
ClientSampleId :
RO-10

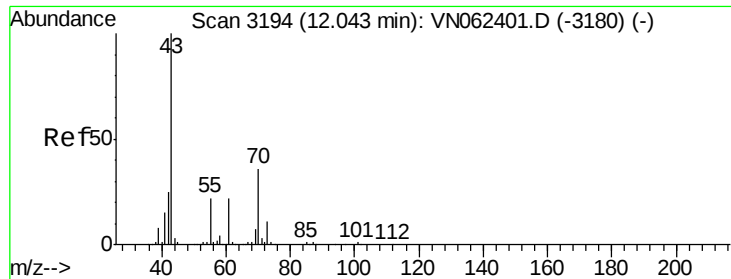
Tot Ion:173 Resp: 942
Ion Ratio Lower Upper
173 100
175 752.2 23.7 71.1#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. -0.00 min
Lab File: VN062479.D
Acq: 10 Jul 2020 1:04

Tgt Ion:152 Resp: 120576
Ion Ratio Lower Upper
152 100
115 62.3 31.4 94.2
150 156.4 0.0 347.4





#74

N-amvl acetate

Concen: 0.723 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062479.D

Acq: 10 Jul 2020 1:04

Instrument :

MSVOA_N

ClientSampled :

RO-10

Tot Ion: 43 Resp: 3283

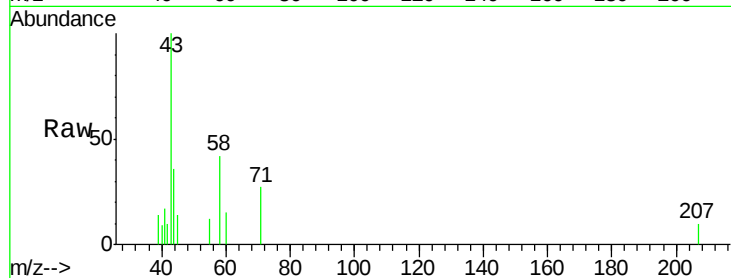
Ion Ratio Lower Upper

43 100

70 0.0 30.0 45.0#

55 3.3 18.2 27.4#

61 0.0 17.7 26.5#

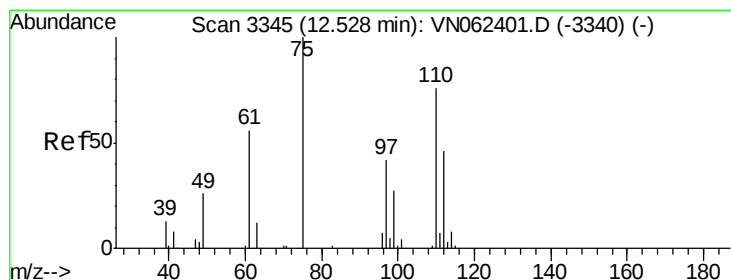
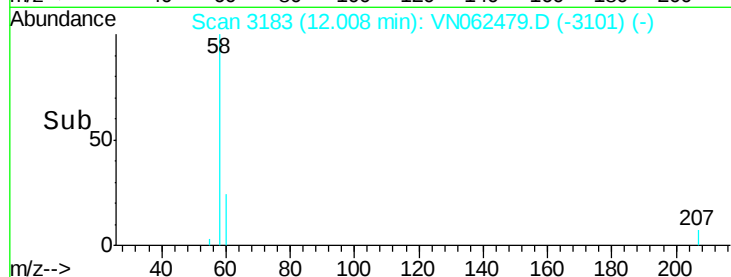
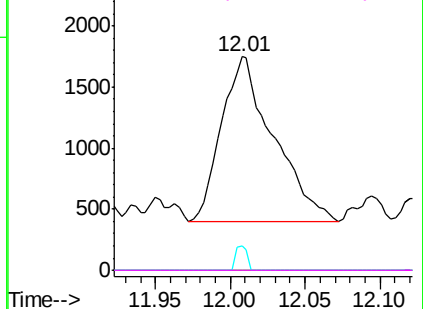


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 28.505 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062479.D

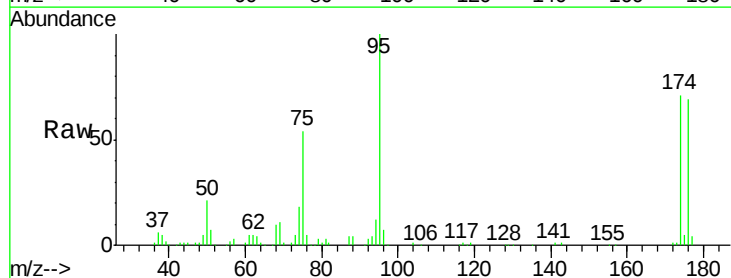
Acq: 10 Jul 2020 1:04

Tgt Ion: 75 Resp: 84333

Ion Ratio Lower Upper

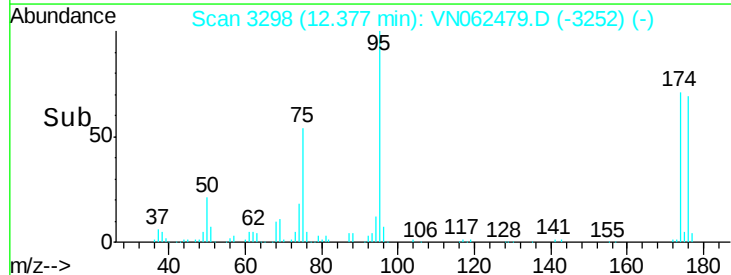
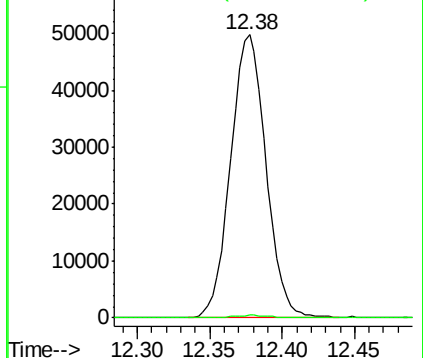
75 100

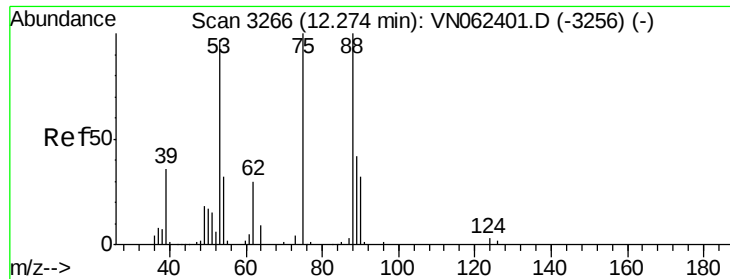
77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 76.296 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062479.D

Acq: 10 Jul 2020 1:04

Instrument :

MSVOA_N

ClientSampleId :

RO-10

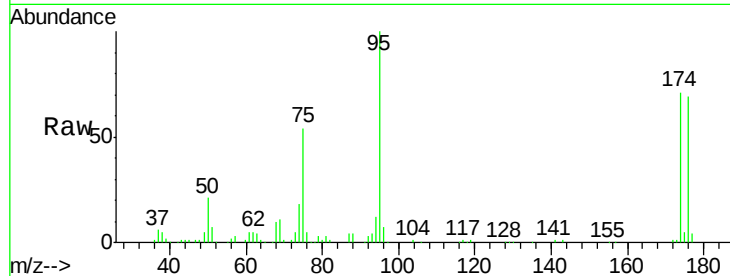
Tot Ion: 75 Resp: 84333

Ion Ratio Lower Upper

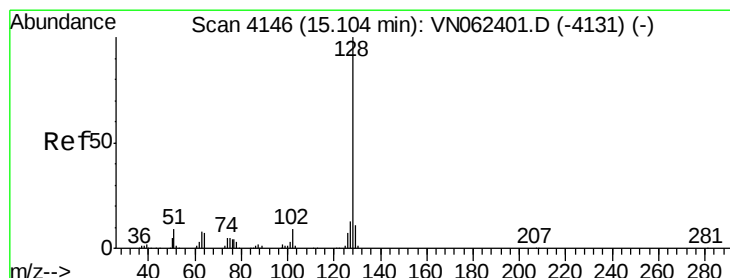
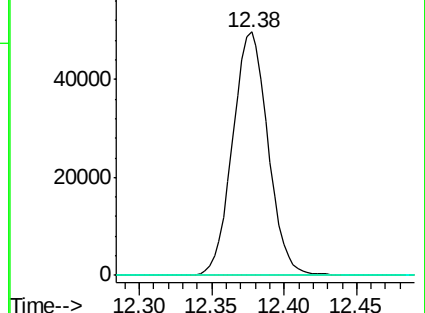
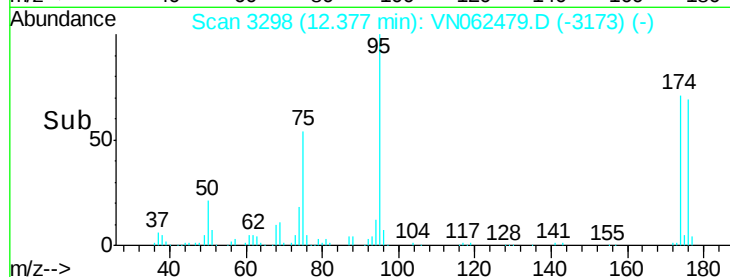
75 100

53 0.0 79.2 118.8#

89 0.0 34.6 52.0#



Abundance Ion 74.90 (74.60 to 75.60): VN062479.D (-3173) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN062479.D

Acq: 10 Jul 2020 1:04

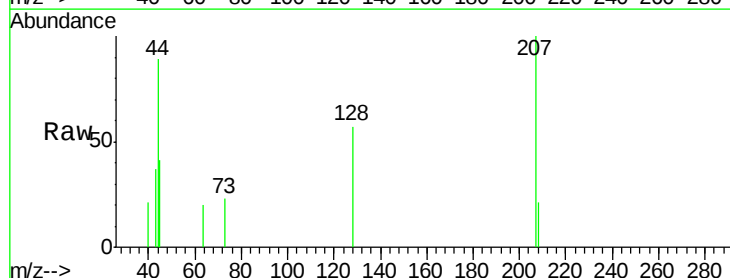
Tgt Ion: 128 Resp: 571

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): VN062479.D (-4052) (-)

