

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063854.D
 Acq On : 3 Oct 2020 5:32
 Operator : JC/MD
 Sample : L4198-29
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-19

Quant Time: Oct 05 04:26:06 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	211993	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	409048	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	412763	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	161987	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	189153	54.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.02%	
35) Dibromofluoromethane	7.55	113	136478	48.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.16%	
50) Toluene-d8	10.06	98	516953	48.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.10%	
62) 4-Bromofluorobenzene	12.38	95	195146	48.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.50%	

Target Compounds

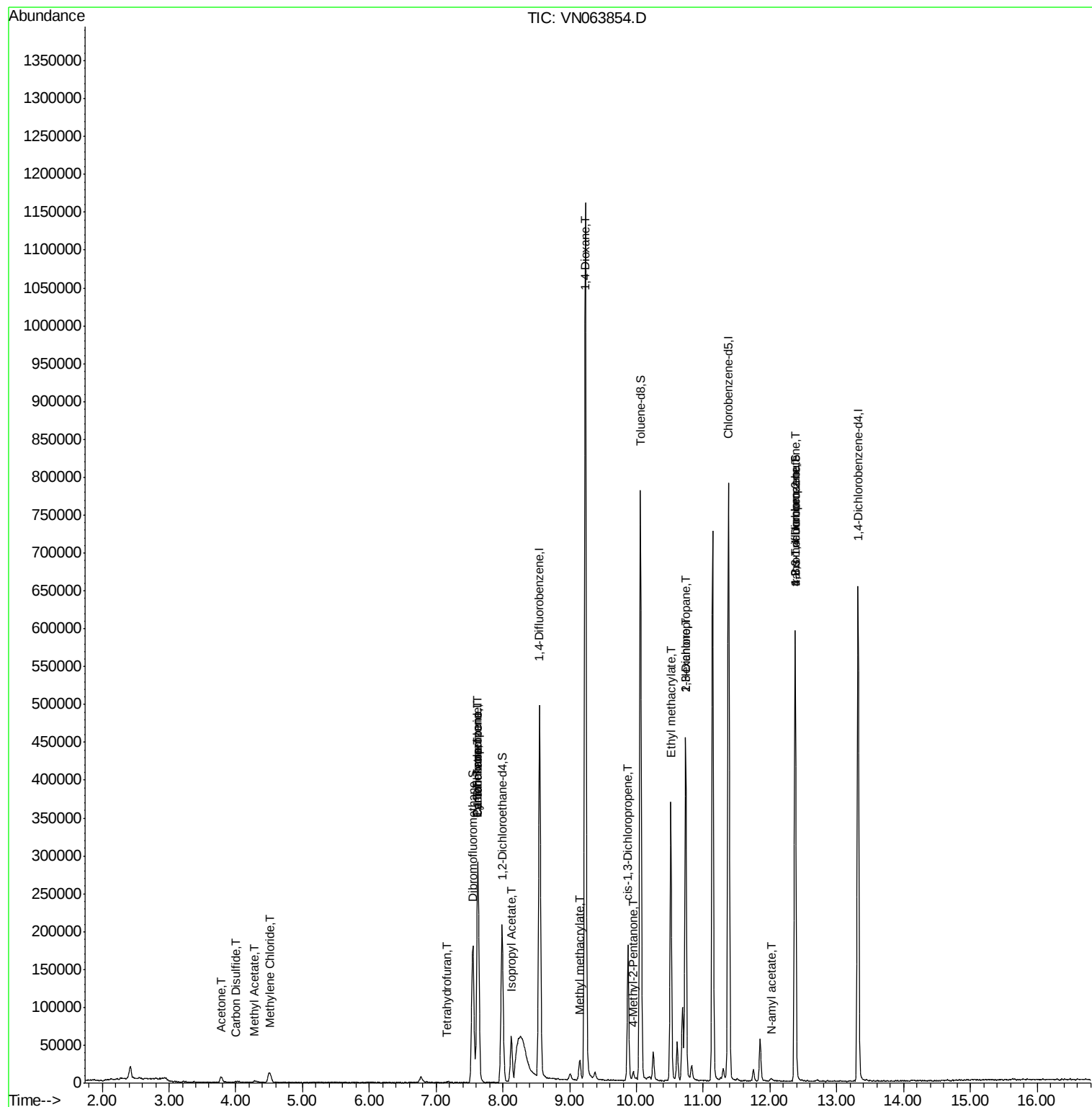
						Qvalue
16) Acetone	3.78	43	12158	11.277	ug/l	98
17) Carbon Disulfide	3.99	76	30	0.706	ug/l #	76
18) Methyl Acetate	4.28	43	3256	1.163	ug/l #	66
20) Methylene Chloride	4.50	84	10056	4.162	ug/l #	91
29) Tetrahydrofuran	7.16	42	754	0.735	ug/l #	61
31) Cyclohexane	7.62	56	2906	0.715	ug/l #	35
36) 1,1-Dichloropropene	7.63	75	18567	4.480	ug/l #	52
38) Carbon Tetrachloride	7.63	117	23637	5.087	ug/l #	13
43) Isopropyl Acetate	8.13	43	71215	10.487	ug/l	100
48) Methyl methacrylate	9.14	41	4572	1.363	ug/l #	12
49) 1,4-Dioxane	9.24	88	64	1.342	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	8560	2.148	ug/l #	87
54) cis-1,3-Dichloropropene	9.87	75	27887	5.473	ug/l #	65
56) Ethyl methacrylate	10.51	69	2050	0.493	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4333	0.872	ug/l #	43
59) 2-Hexanone	10.74	43	72789	24.586	ug/l #	54
74) N-amyl acetate	12.01	43	3894	2.894	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	113871	31.889	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	113871	91.846	ug/l #	6

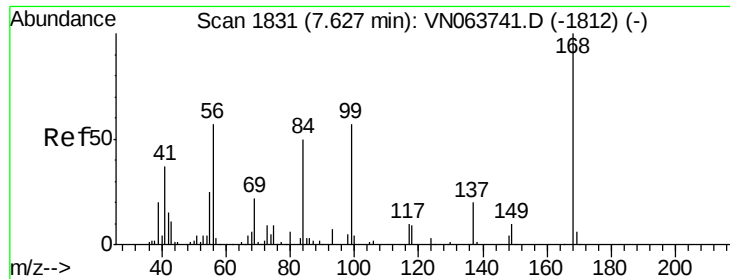
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063854.D

Acq: 3 Oct 2020 5:32

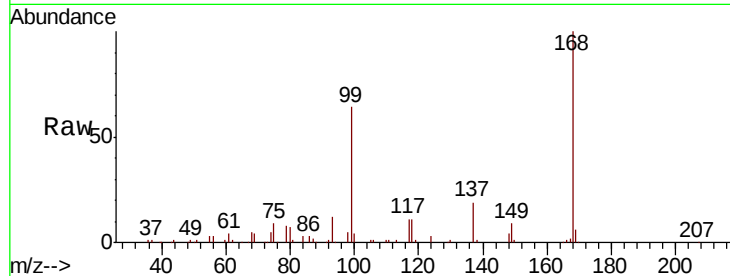
Instrument :
MSVOA_N
ClientSampled :
RO-19

Tot Ion:168 Resp: 211993

Ion Ratio Lower Upper

168 100

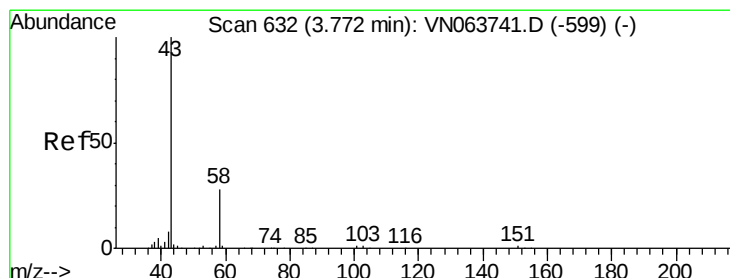
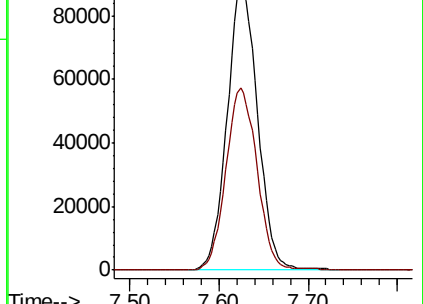
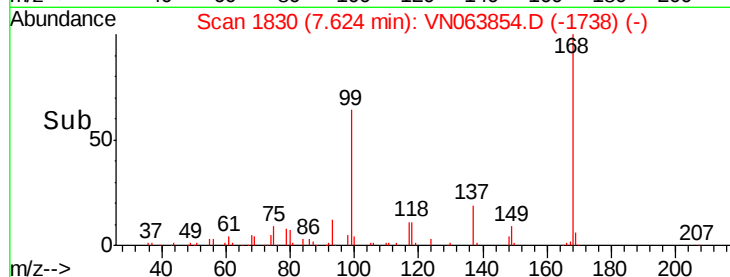
99 64.5 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62



#16

Acetone

Concen: 11.277 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063854.D

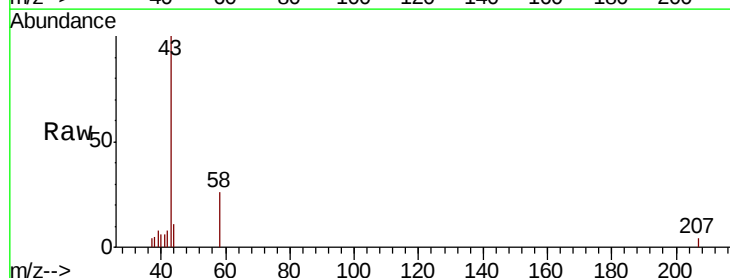
Acq: 3 Oct 2020 5:32

Tgt Ion: 43 Resp: 12158

Ion Ratio Lower Upper

43 100

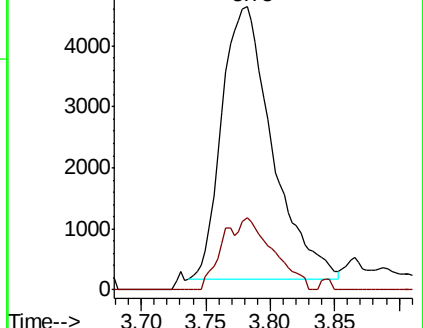
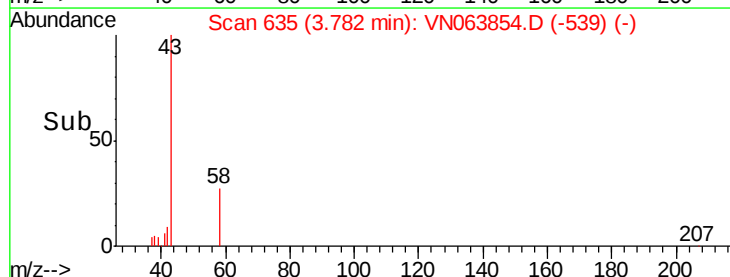
58 26.6 22.3 33.5

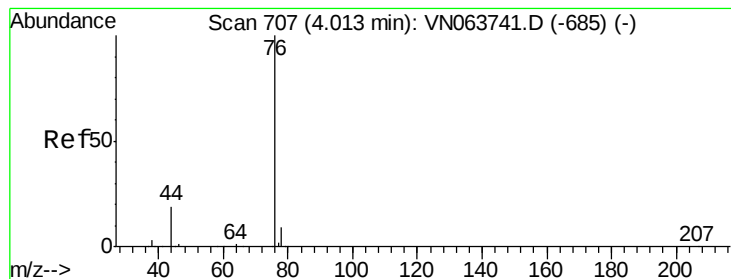


Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78





#17

Carbon Disulfide

Concen: 0.706 ug/l

RT: 3.99 min Scan# 700

Delta R.T. -0.02 min

Lab File: VN063854.D

Acq: 3 Oct 2020 5:32

Instrument :

MSVOA_N

ClientSampled :

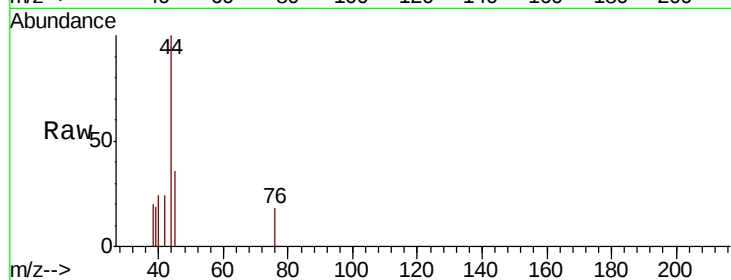
RO-19

Tot Ion: 76 Resp: 30

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

3.99

150

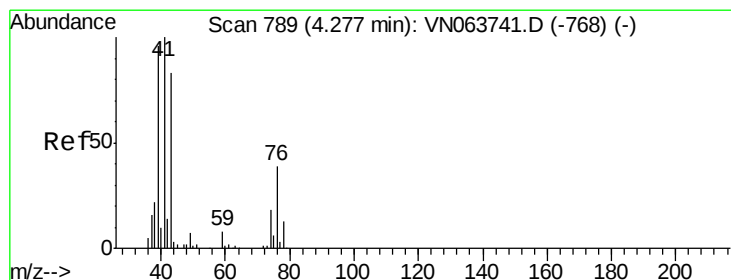
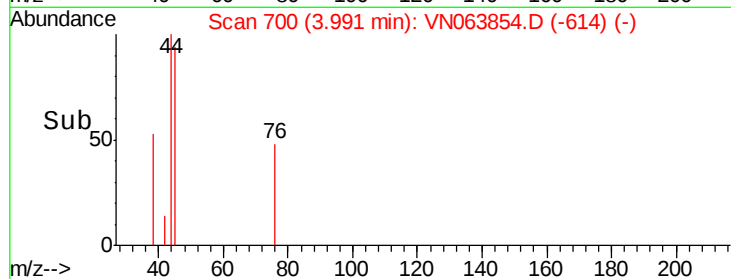
100

50

0

3.98 3.98 3.99 4.00 4.00

Time-->



#18

Methyl Acetate

Concen: 1.163 ug/l

RT: 4.28 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN063854.D

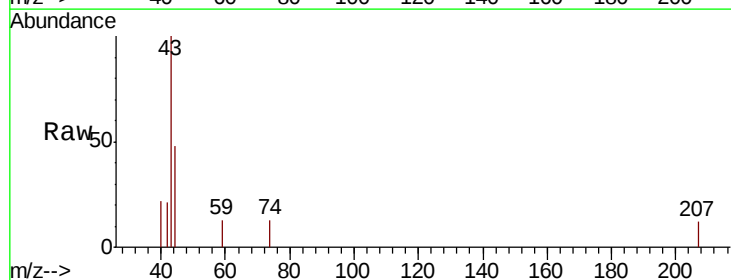
Acq: 3 Oct 2020 5:32

Tgt Ion: 43 Resp: 3256

Ion Ratio Lower Upper

43 100

74 5.8 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.28

1500

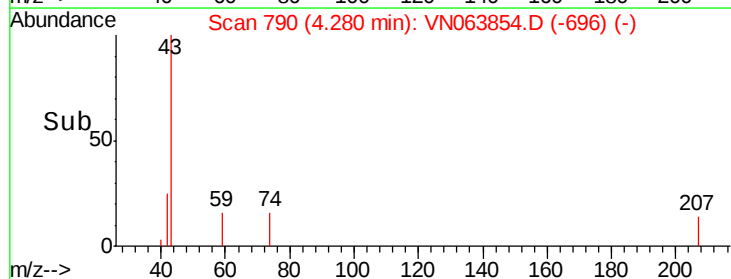
1000

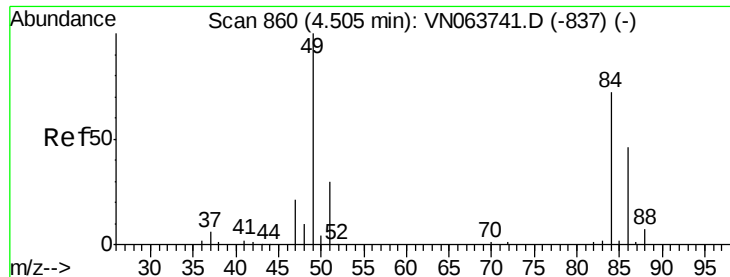
500

0

4.20 4.25 4.30 4.35

Time-->

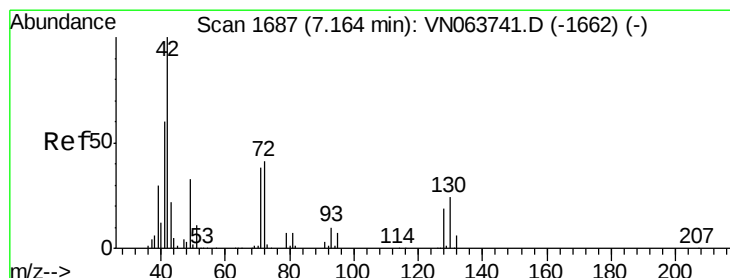
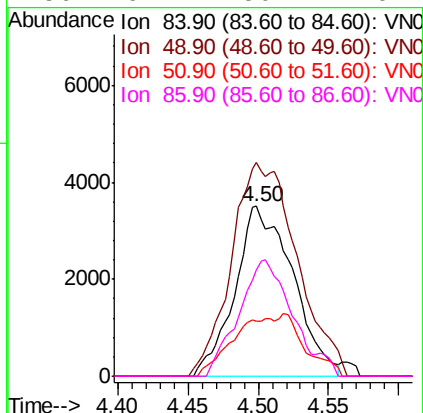
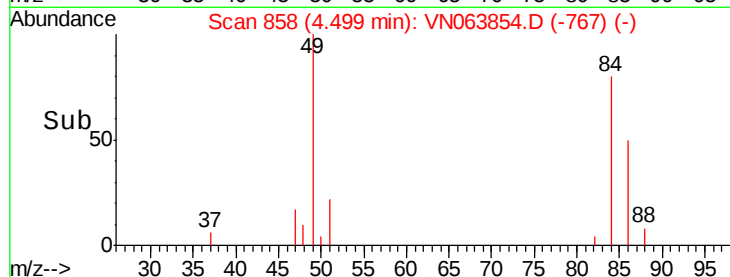
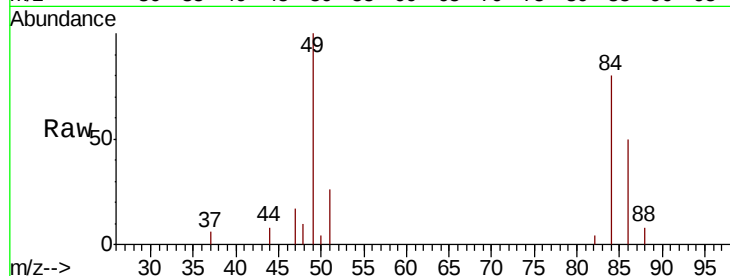




#20
Methylene Chloride
Concen: 4.162 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.01 min
Lab File: VN063854.D
Acq: 3 Oct 2020 5:32

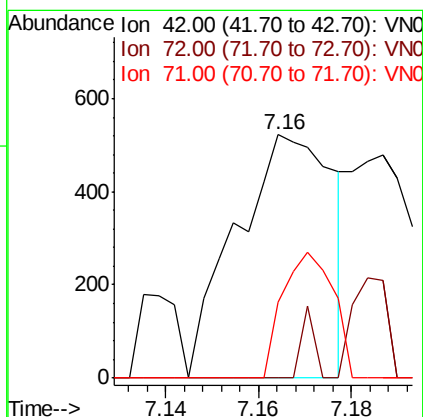
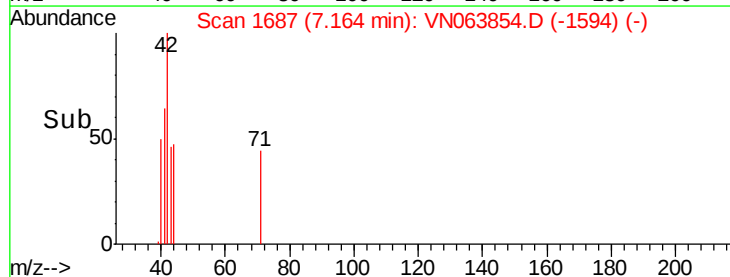
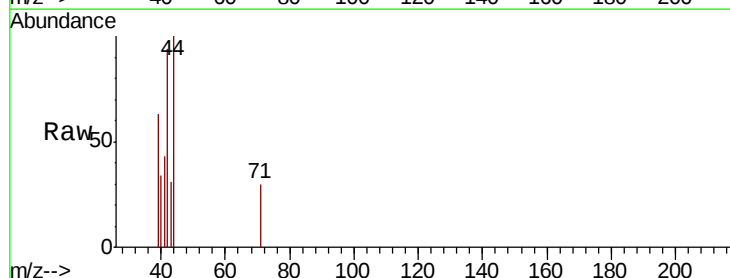
Instrument :
MSVOA_N
ClientSampled :
RO-19

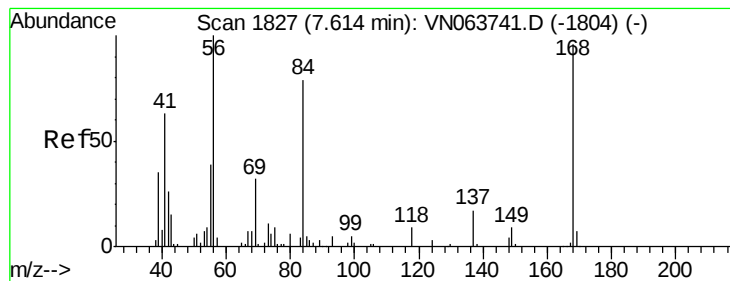
Tot Ion: 84 Resp: 10056
Ion Ratio Lower Upper
84 100
49 125.5 110.4 165.6
51 32.5 33.3 49.9#
86 62.7 50.7 76.1



#29
Tetrahydrofuran
Concen: 0.735 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN063854.D
Acq: 3 Oct 2020 5:32

Tgt Ion: 42 Resp: 754
Ion Ratio Lower Upper
42 100
72 4.0 32.8 49.2#
71 27.3 30.6 45.8#





#31

Cyclohexane

Concen: 0.715 ug/l

RT: 7.62 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN063854.D

Acq: 3 Oct 2020 5:32

Instrument :

MSVOA_N

ClientSampled :

RO-19

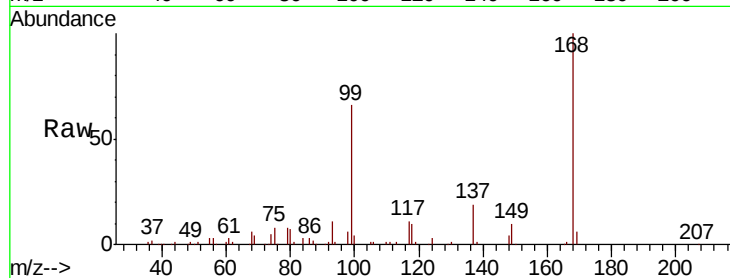
Tot Ion: 56 Resp: 2906

Ion Ratio Lower Upper

56 100

69 128.1 25.4 38.2#

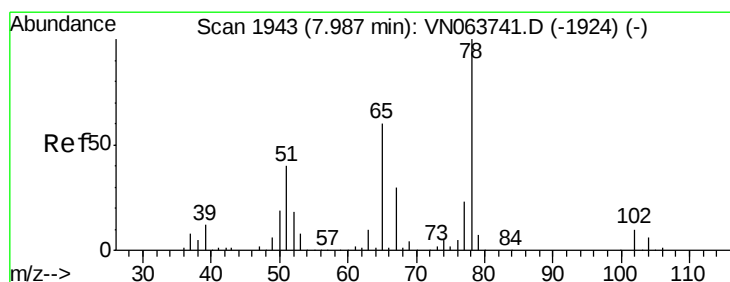
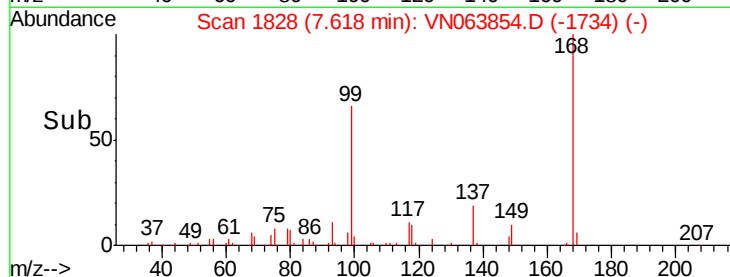
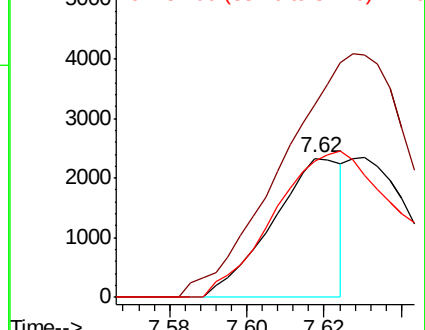
84 98.4 63.3 94.9#



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: 54.009 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063854.D

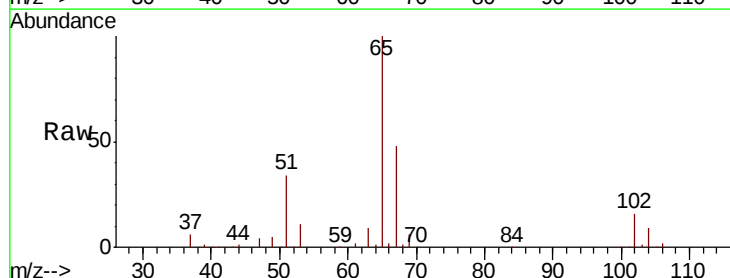
Acq: 3 Oct 2020 5:32

Tgt Ion: 65 Resp: 189153

Ion Ratio Lower Upper

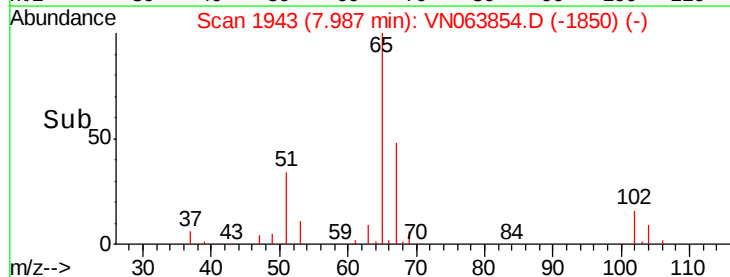
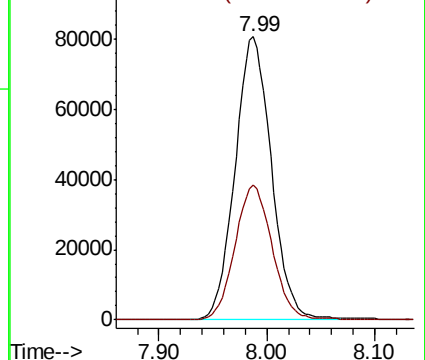
65 100

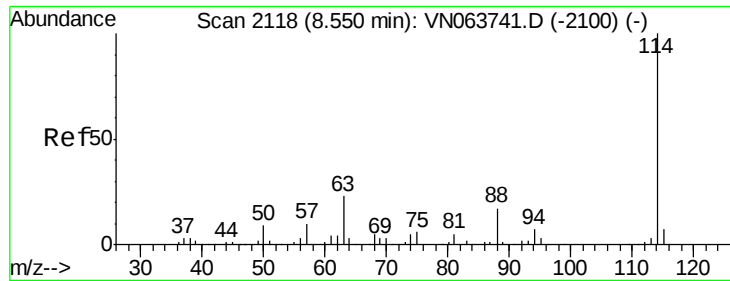
67 48.7 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

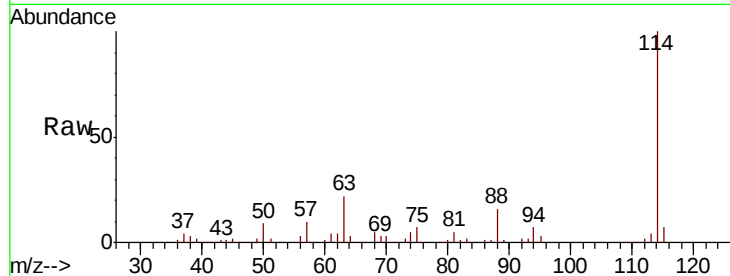




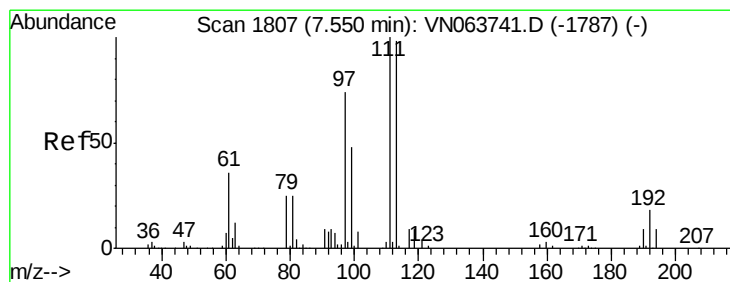
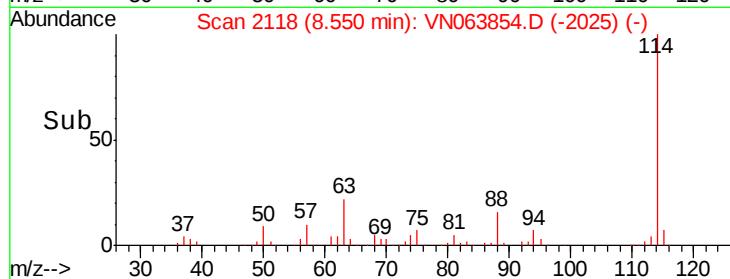
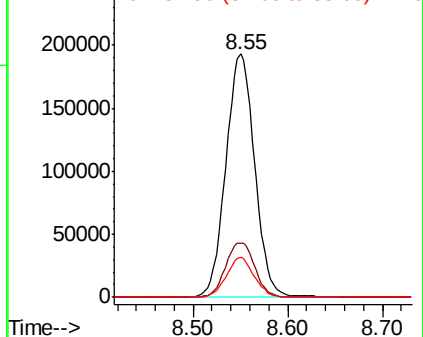
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063854.D
 Acq: 3 Oct 2020 5:32

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-19

Tot Ion:114 Resp: 409048
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 45.0
 88 16.4 0.0 34.0

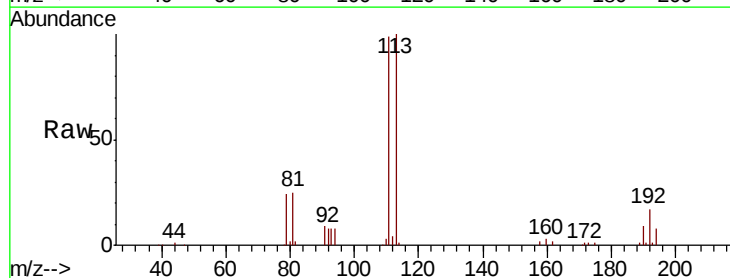


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

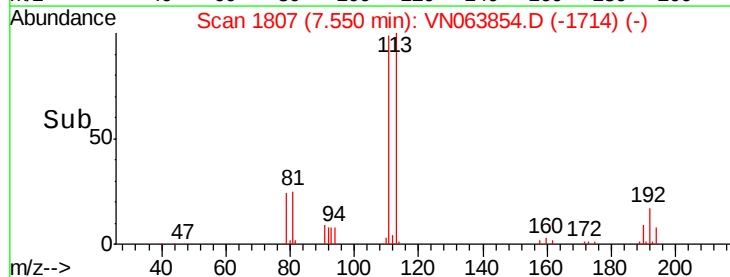
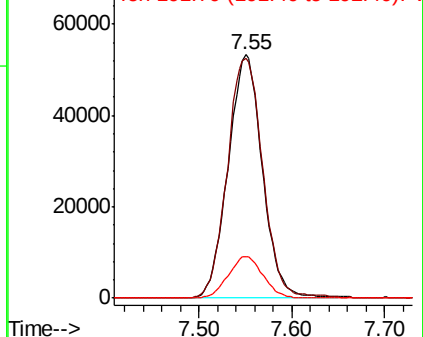


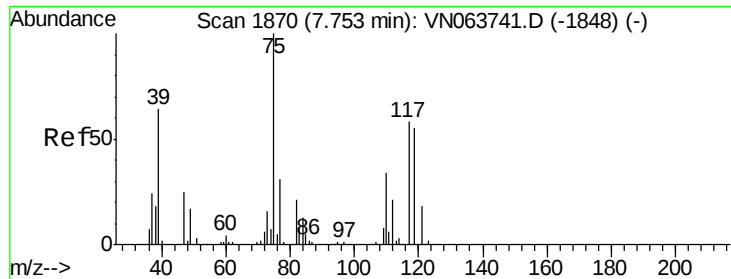
#35
 Dibromofluoromethane
 Concen: 48.085 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063854.D
 Acq: 3 Oct 2020 5:32

Tgt Ion:113 Resp: 136478
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.8 122.8
 192 17.2 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

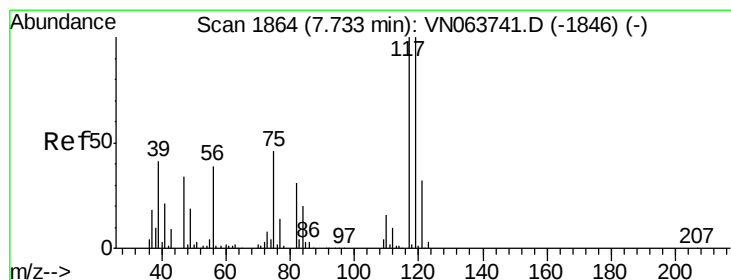
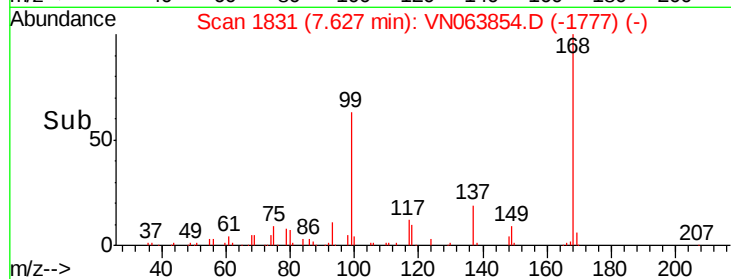
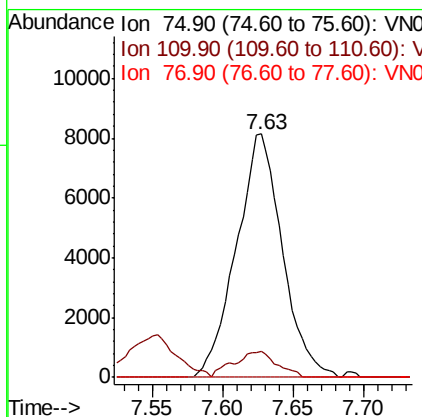
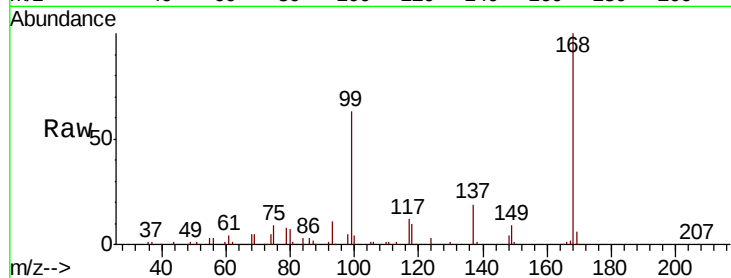




#36
 1,1-Dichloropropene
 Concen: 4.480 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063854.D
 Acq: 3 Oct 2020 5:32

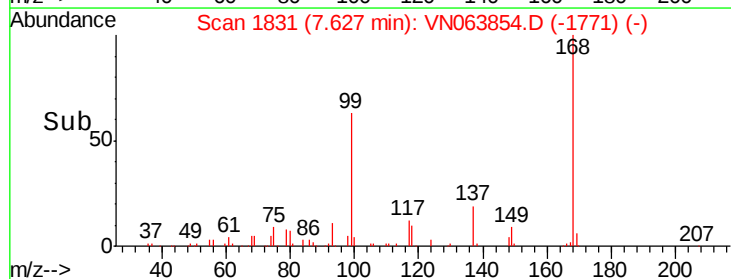
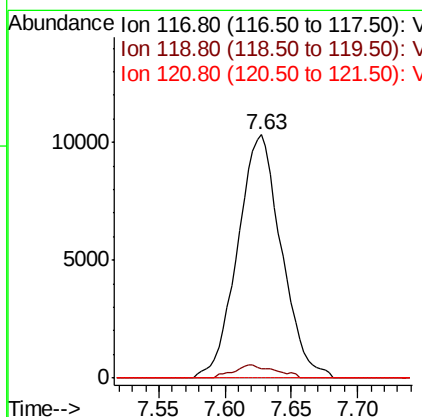
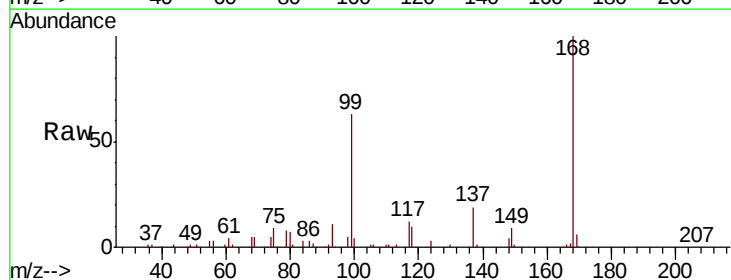
Instrument :
 MSVOA_N
 ClientSampled :
 RO-19

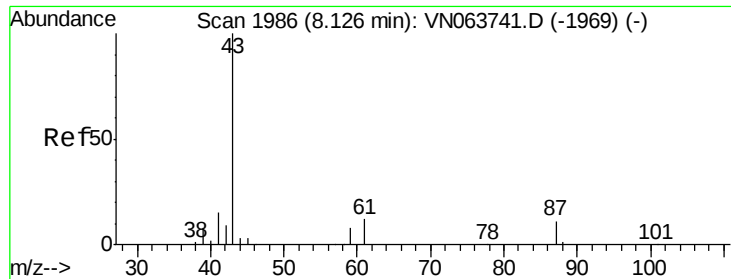
Tot Ion: 75 Resp: 18567
 Ion Ratio Lower Upper
 75 100
 110 10.0 16.9 50.6#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 5.087 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063854.D
 Acq: 3 Oct 2020 5:32

Tgt Ion: 117 Resp: 23637
 Ion Ratio Lower Upper
 117 100
 119 4.0 80.1 120.1#
 121 0.0 25.7 38.5#





#43

Isopropyl Acetate

Concen: 10.487 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063854.D

Acq: 3 Oct 2020 5:32

Instrument :

MSVOA_N

ClientSampleId :

RO-19

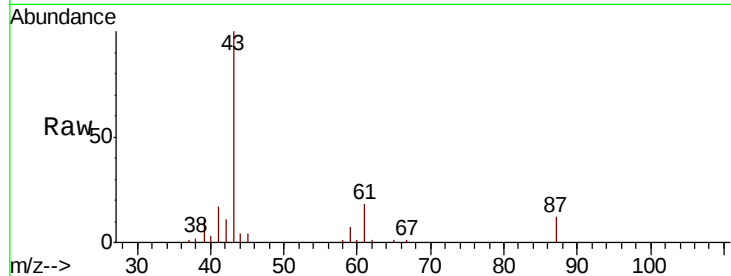
Tot Ion: 43 Resp: 71215

Ion Ratio Lower Upper

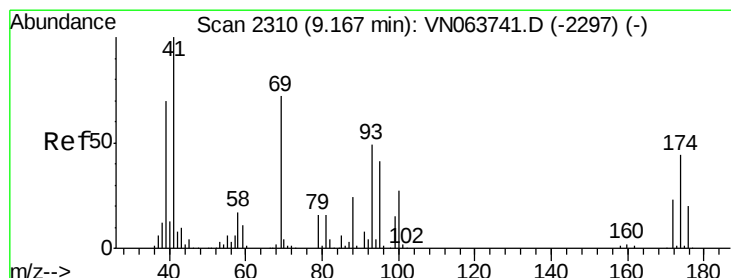
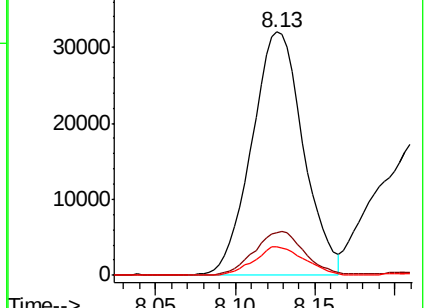
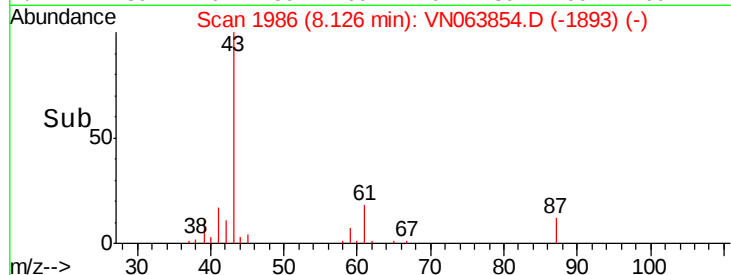
43 100

61 17.7 14.2 21.4

87 11.4 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063854.D (-1893) (-)



#48

Methyl methacrylate

Concen: 1.363 ug/l

RT: 9.14 min Scan# 2302

Delta R.T. -0.03 min

Lab File: VN063854.D

Acq: 3 Oct 2020 5:32

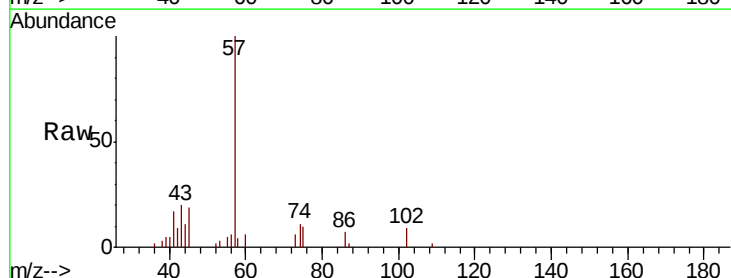
Tgt Ion: 41 Resp: 4572

Ion Ratio Lower Upper

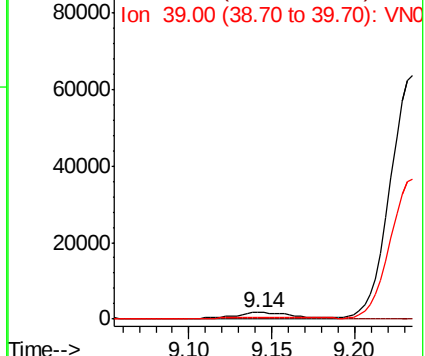
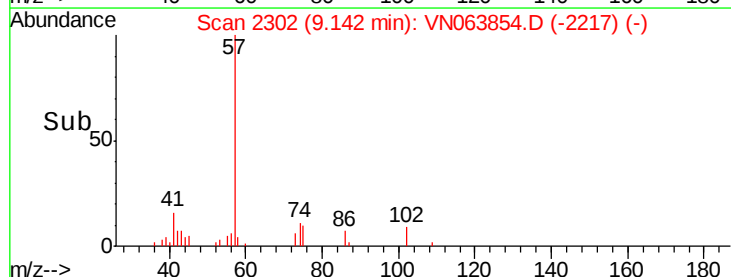
41 100

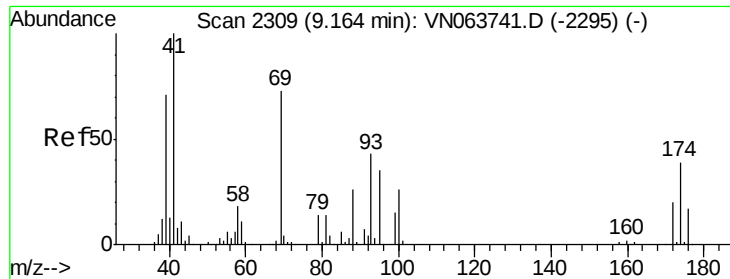
69 0.0 60.9 91.3#

39 0.0 57.5 86.3#



Abundance Ion 41.00 (40.70 to 41.70): VN063854.D (-2217) (-)





#49

1,4-Dioxane

Concen: 1.342 ug/l

RT: 9.24 min Scan# 2334

Delta R.T. 0.08 min

Lab File: VN063854.D

Acq: 3 Oct 2020 5:32

Instrument :

MSVOA_N

ClientSampleId :

RO-19

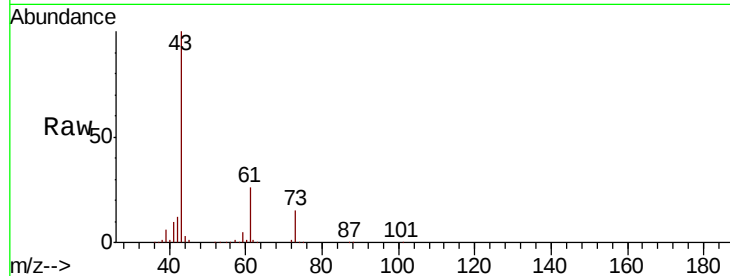
Tot Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 1769298.4 33.1 49.7#

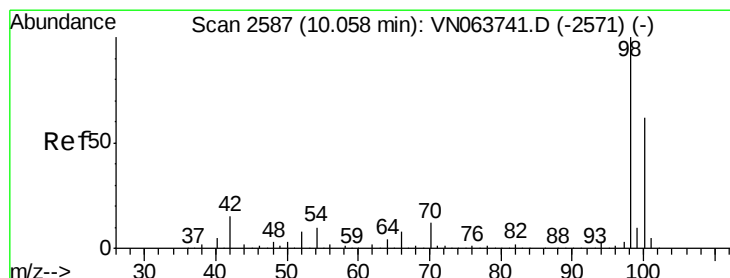
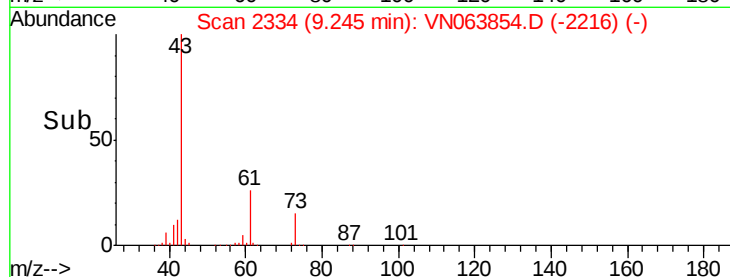
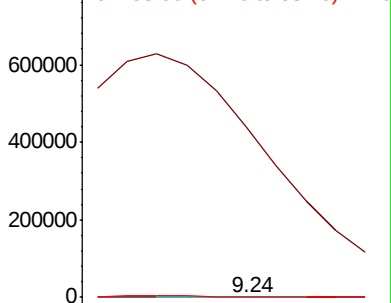
58 8545.3 58.9 88.3#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.046 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN063854.D

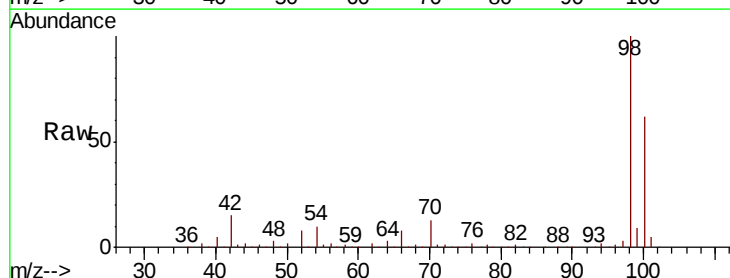
Acq: 3 Oct 2020 5:32

Tgt Ion: 98 Resp: 516953

Ion Ratio Lower Upper

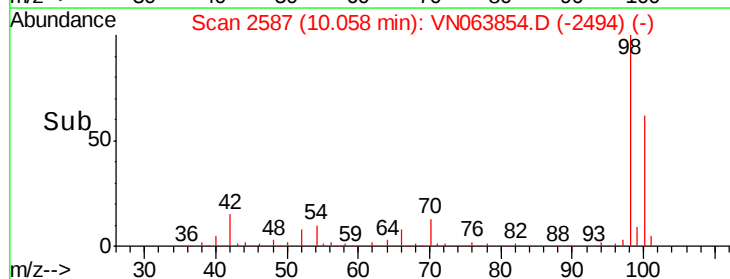
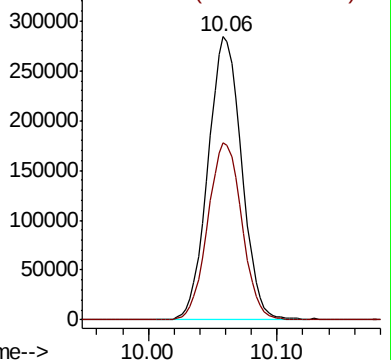
98 100

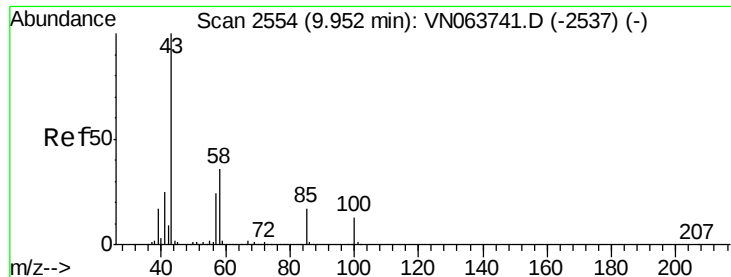
100 63.5 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.148 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063854.D

Acq: 3 Oct 2020 5:32

Instrument :

MSVOA_N

ClientSampled :

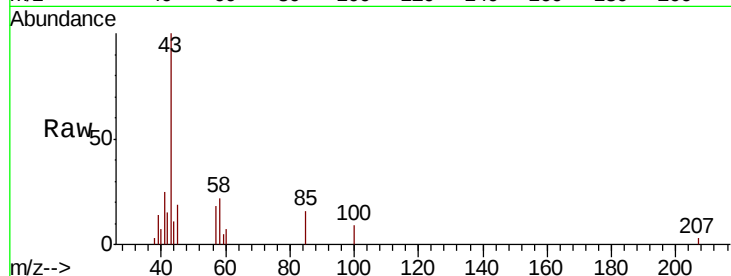
RO-19

Tot Ion: 43 Resp: 8560

Ion Ratio Lower Upper

43 100

58 28.0 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) (-)

9.96

6000

4000

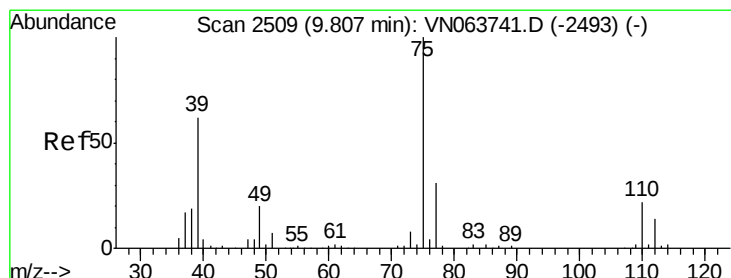
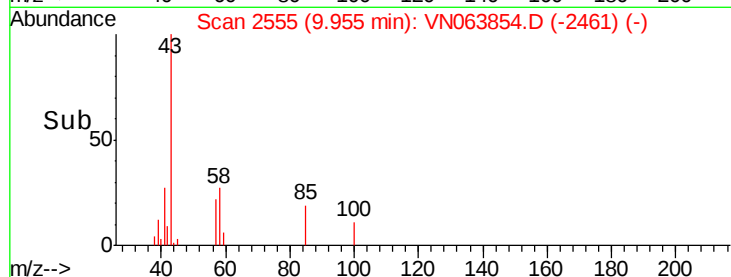
2000

0

9.90

9.95

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.473 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063854.D

Acq: 3 Oct 2020 5:32

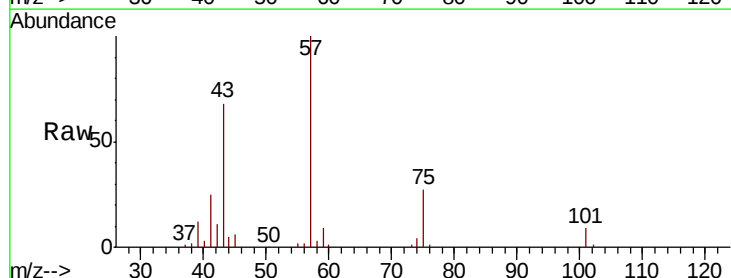
Tgt Ion: 75 Resp: 27887

Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

39 43.4 49.7 74.5#



Abundance Ion 74.90 (74.60 to 75.60): VN063741.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN063741.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN063741.D (-2493) (-)

9.87

20000

15000

10000

5000

0

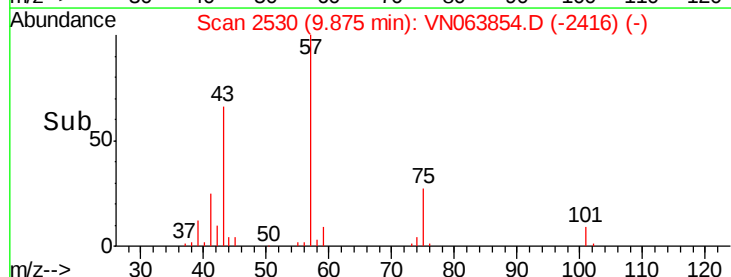
9.80

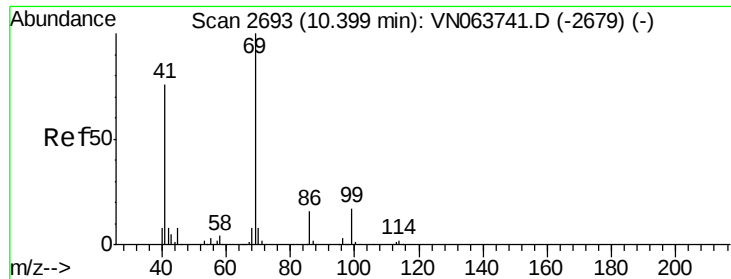
9.85

9.90

9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.493 ug/l

RT: 10.51 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN063854.D

Acq: 3 Oct 2020 5:32

Instrument :

MSVOA_N

ClientSampled :

RO-19

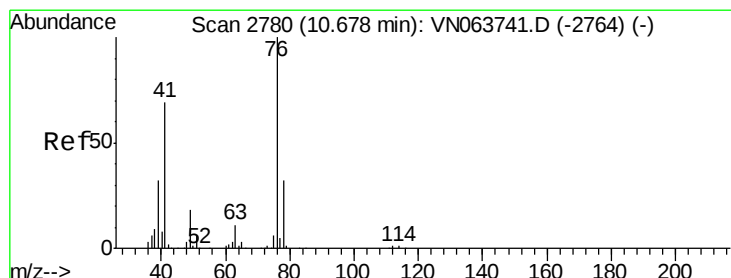
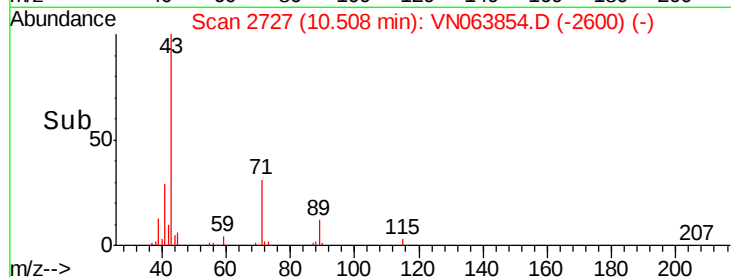
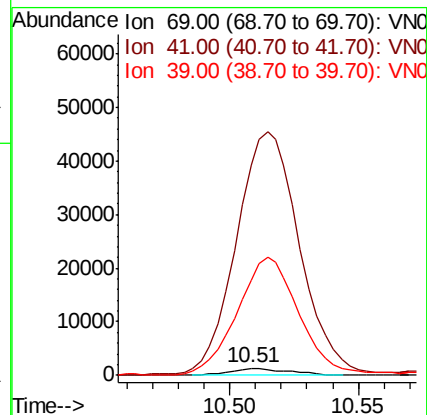
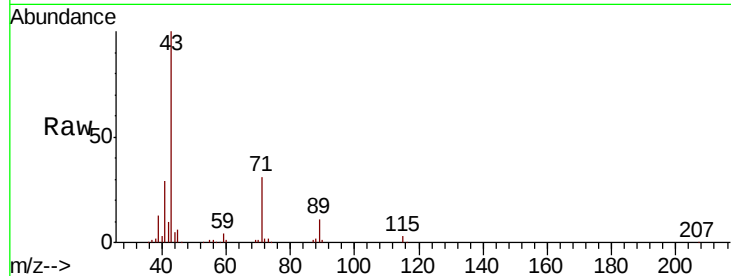
Tot Ion: 69 Resp: 2050

Ion Ratio Lower Upper

69 100

41 3822.6 61.1 91.7#

39 1810.3 42.2 63.4#



#57

1,3-Dichloropropane

Concen: 0.872 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063854.D

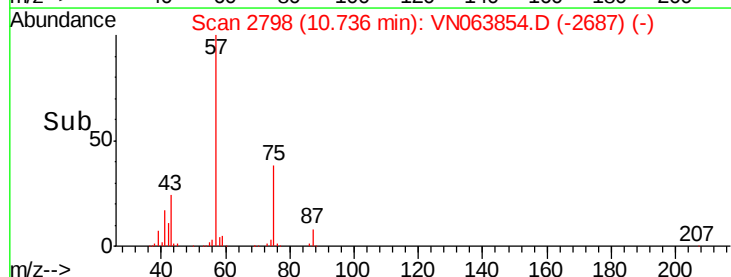
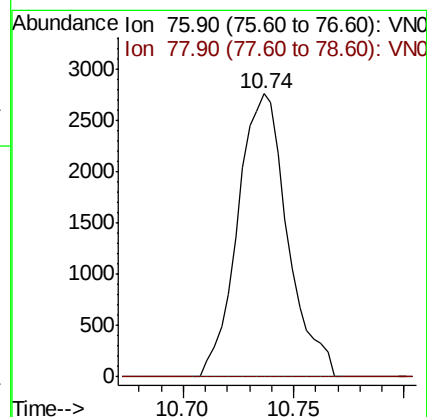
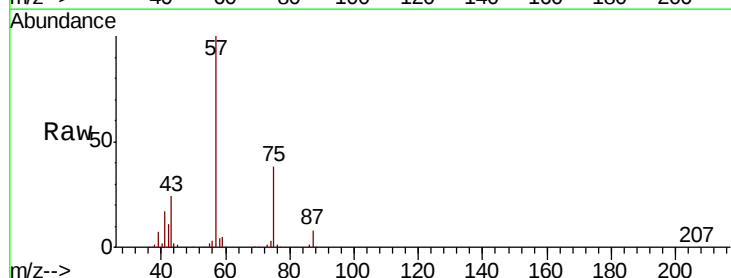
Acq: 3 Oct 2020 5:32

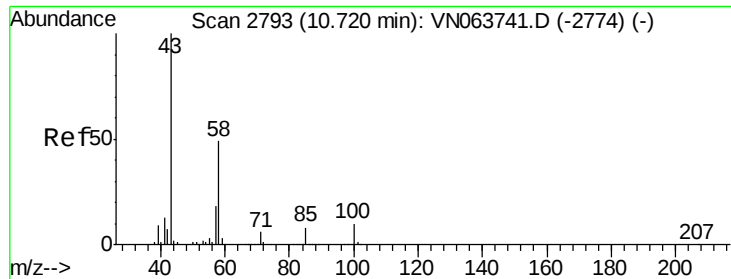
Tgt Ion: 76 Resp: 4333

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#

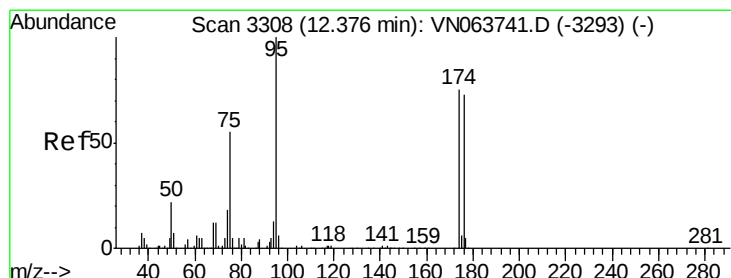
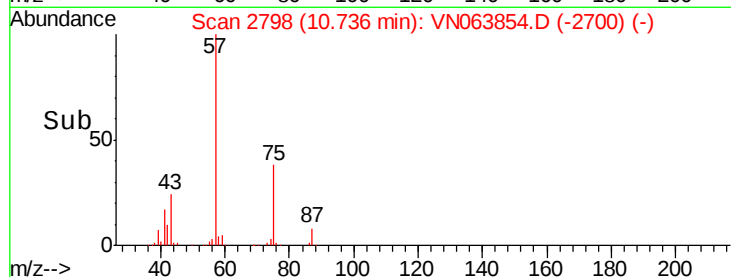
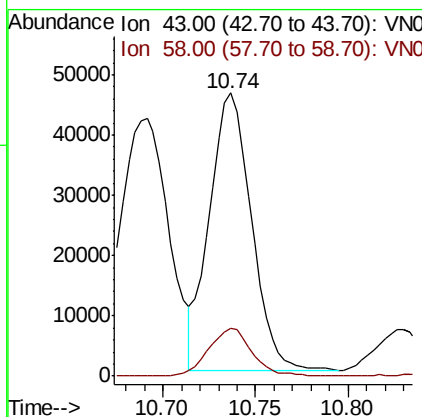
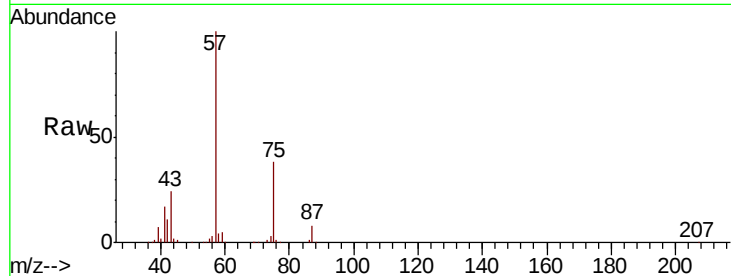




#59
2-Hexanone
Concen: 24.586 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063854.D
Acq: 3 Oct 2020 5:32

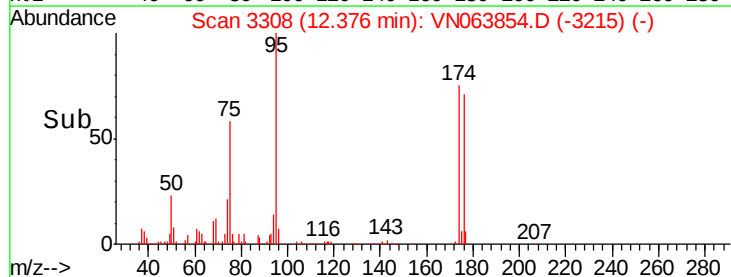
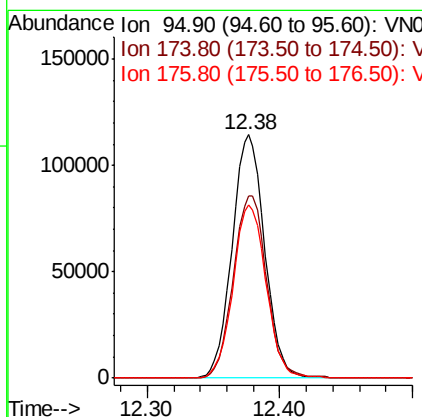
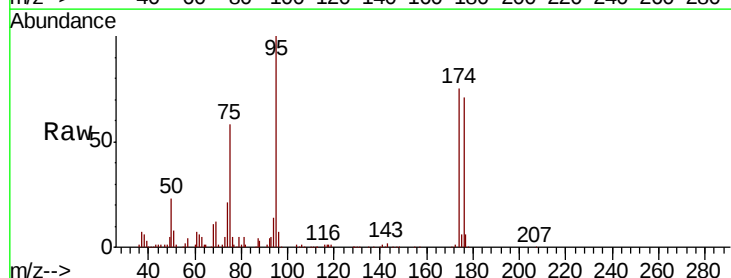
Instrument :
MSVOA_N
ClientSampled :
RO-19

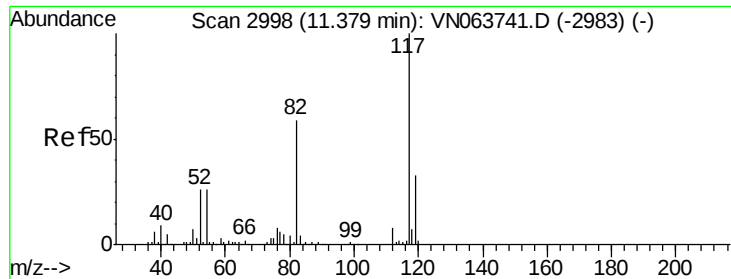
Tot Ion: 43 Resp: 72789
Ion Ratio Lower Upper
43 100
58 17.6 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 48.248 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063854.D
Acq: 3 Oct 2020 5:32

Tgt Ion: 95 Resp: 195146
Ion Ratio Lower Upper
95 100
174 76.7 0.0 150.6
176 72.4 0.0 145.4

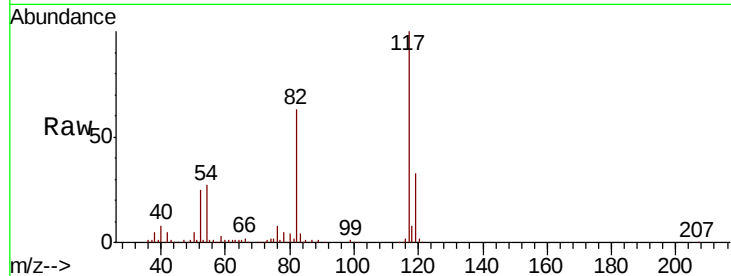




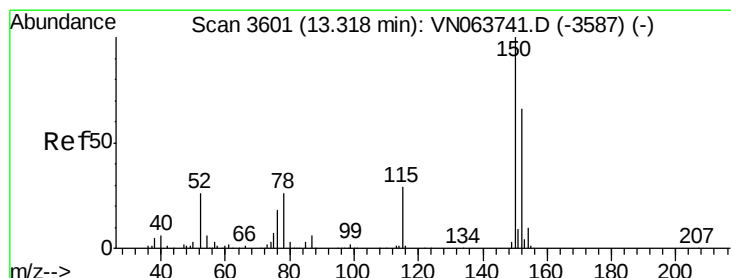
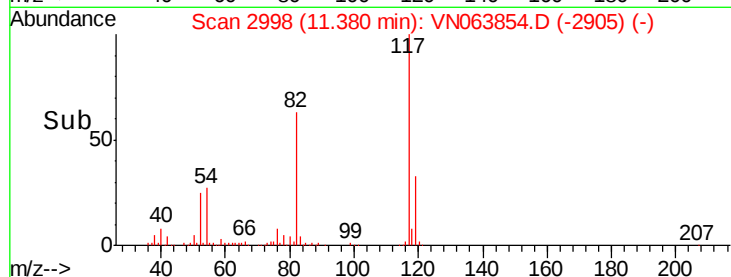
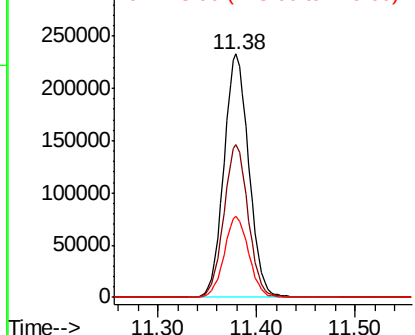
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063854.D
Acq: 3 Oct 2020 5:32

Instrument :
MSVOA_N
ClientSampleId :
RO-19

Tot Ion:117 Resp: 412763
Ion Ratio Lower Upper
117 100
82 62.6 47.4 71.2
119 33.1 26.4 39.6

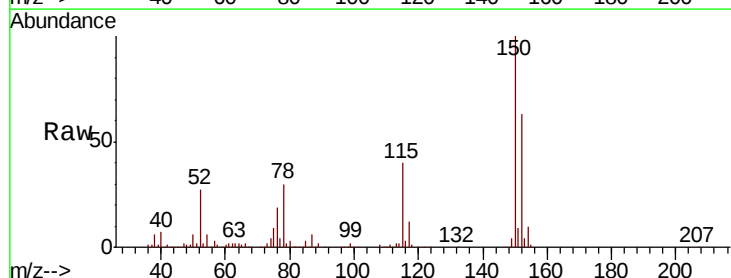


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

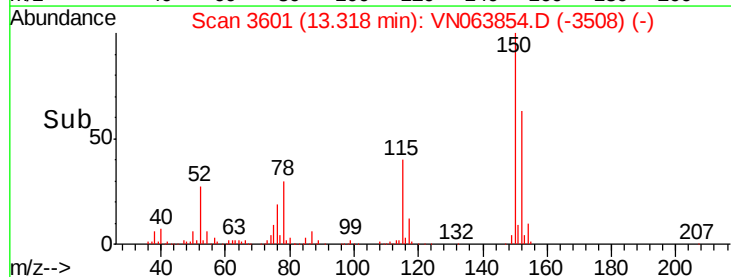
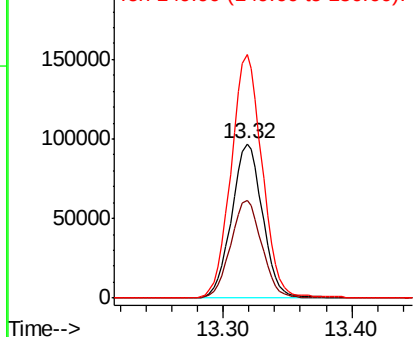


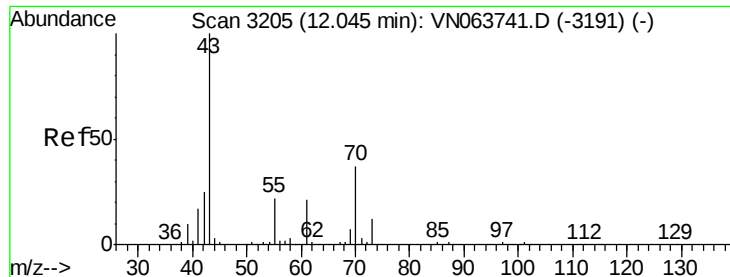
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063854.D
Acq: 3 Oct 2020 5:32

Tgt Ion:152 Resp: 161987
Ion Ratio Lower Upper
152 100
115 63.5 31.3 93.8
150 157.7 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-amvl acetate

Concen: 2.894 ug/l

RT: 12.01 min Scan# 3195

Delta R.T. -0.03 min

Lab File: VN063854.D

Acq: 3 Oct 2020 5:32

Instrument :

MSVOA_N

ClientSampled :

RO-19

Tot Ion: 43 Resp: 3894

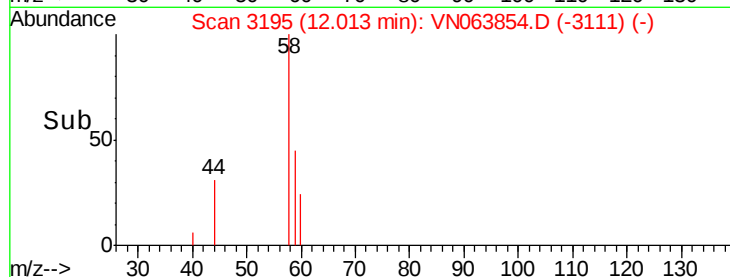
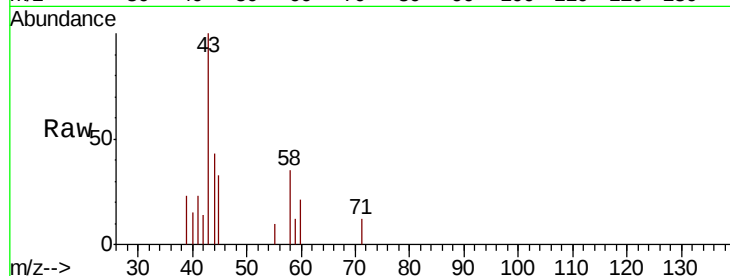
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 6.2 17.9 26.9#

61 0.0 17.0 25.4#

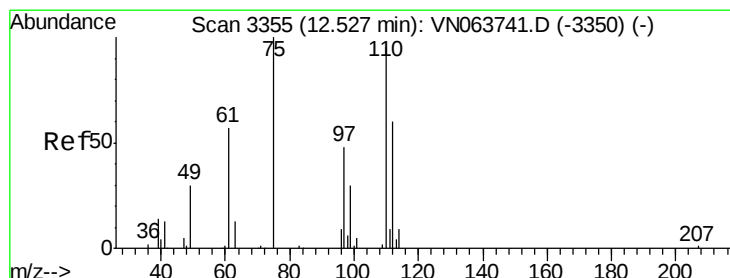
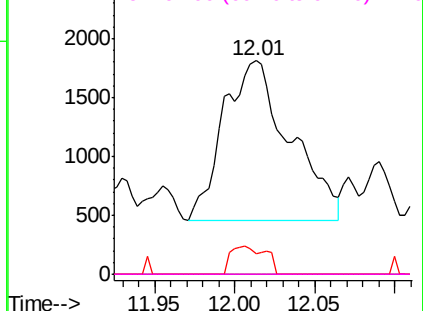


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 31.889 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063854.D

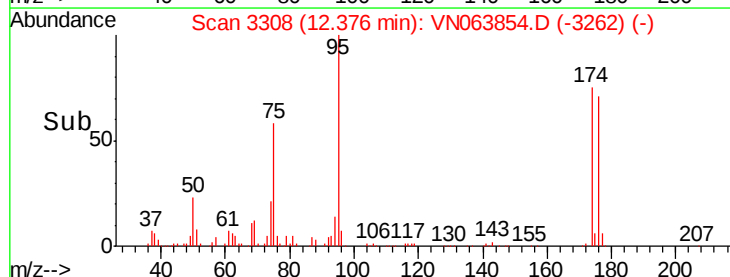
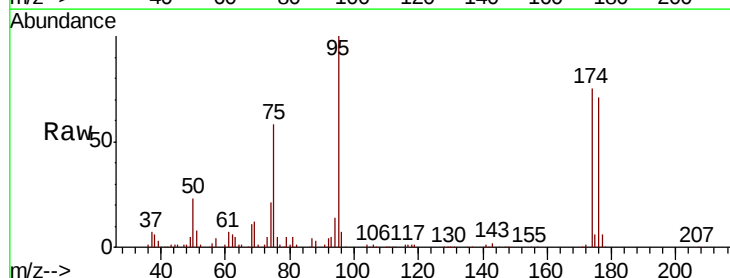
Acq: 3 Oct 2020 5:32

Tgt Ion: 75 Resp: 113871

Ion Ratio Lower Upper

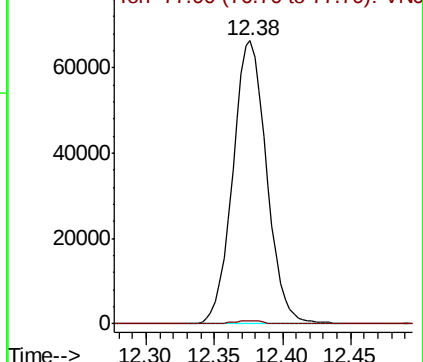
75 100

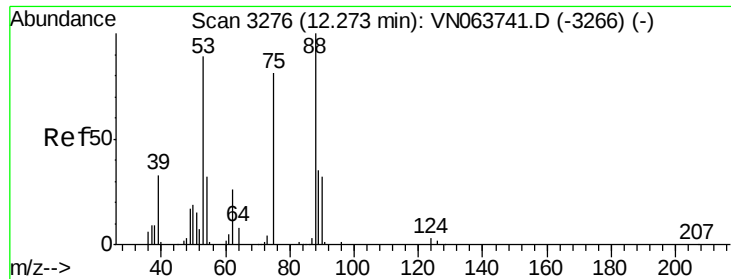
77 0.9 0.0 0.0#



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: 91.846 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063854.D

Acq: 3 Oct 2020 5:32

Instrument :

MSVOA_N

ClientSampleId :

RO-19

Tot Ion: 75 Resp: 113871

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.0 36.0 54.0#

