

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070620\
 Data File : VN062393.D
 Acq On : 7 Jul 2020 3:36
 Operator : JC/MD
 Sample : L3202-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-COMP

Quant Time: Jul 07 05:24:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070620W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 07 05:08:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	915560	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	1684965	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	1675264	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	613432	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	834115	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	
35) Dibromofluoromethane	7.55	113	568861	49.49	ug/l	0.00
Spiked Amount			Recovery	=	98.98%	
50) Toluene-d8	10.06	98	2209056	51.41	ug/l	0.00
Spiked Amount			Recovery	=	102.82%	
62) 4-Bromofluorobenzene	12.38	95	796742	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	

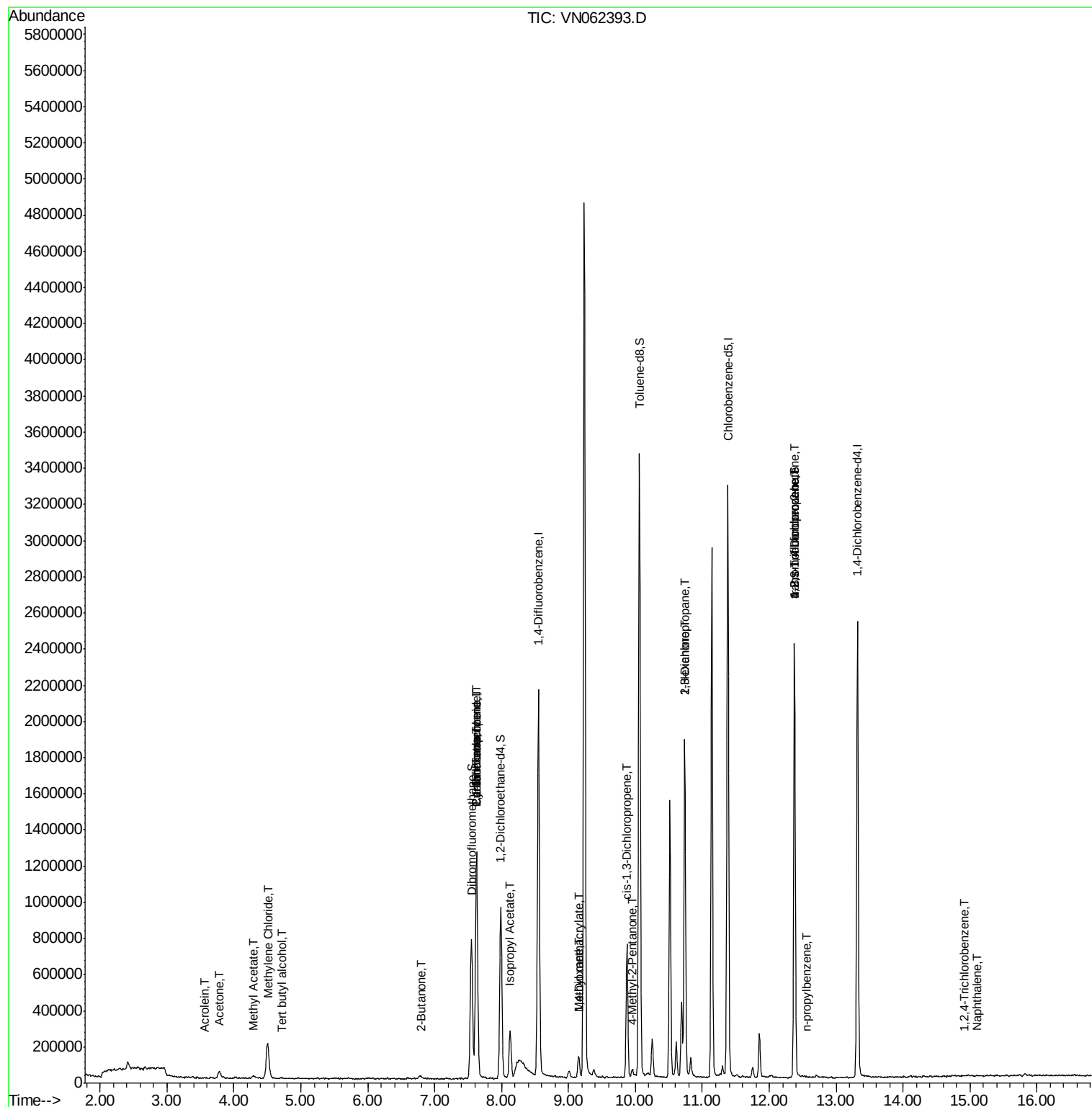
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	1515	0.661	ug/l #	1
13) Acrolein	3.56	56	109	0.448	ug/l #	1
16) Acetone	3.78	43	75032	9.827	ug/l	92
18) Methyl Acetate	4.29	43	29276	1.401	ug/l	94
20) Methylene Chloride	4.51	84	127517	10.241	ug/l	96
23) Vinyl Acetate	5.84	43	1086	Below Cal	#	90
25) 2-Butanone	6.80	43	9801	1.019	ug/l #	87
31) Cyclohexane	7.62	56	29175	1.389	ug/l #	28
36) 1,1-Dichloropropene	7.63	75	88238	4.984	ug/l #	51
38) Carbon Tetrachloride	7.63	117	98705	5.544	ug/l #	15
43) Isopropyl Acetate	8.13	43	319602	9.104	ug/l	99
48) Methyl methacrylate	9.15	41	19184	1.071	ug/l #	20
49) 1,4-Dioxane	9.16	88	258	1.060	ug/l #	18
51) 4-Methyl-2-Pentanone	9.95	43	30432	1.155	ug/l	100
54) cis-1,3-Dichloropropene	9.88	75	104553	4.682	ug/l #	67
57) 1,3-Dichloropropane	10.74	76	16611	0.742	ug/l #	50
59) 2-Hexanone	10.74	43	315620	22.182	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	452650	30.550	ug/l #	100
78) n-propylbenzene	12.56	91	329	0.288	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.38	75	452650	87.363	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.92	180	240	2.754	ug/l #	32
94) Hexachlorobutadiene	15.05	225	39	Below Cal	#	1
95) Naphthalene	15.09	128	321	2.078	ug/l #	42

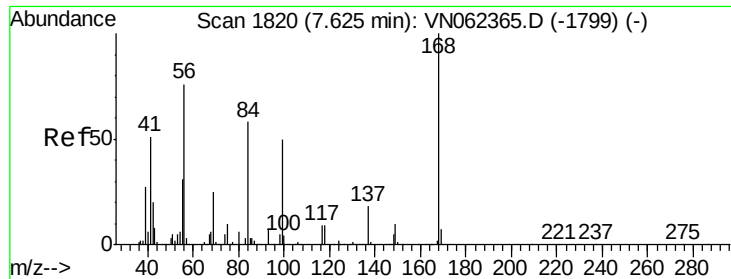
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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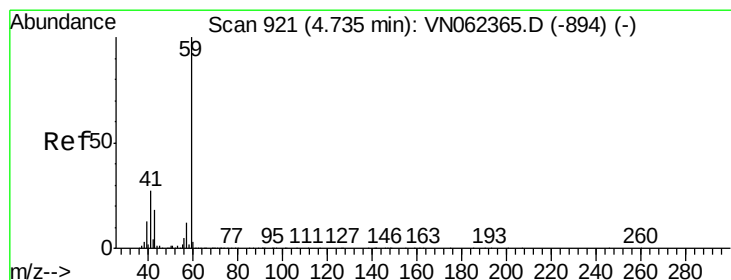
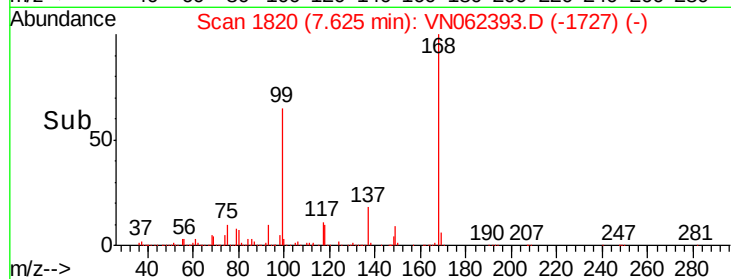
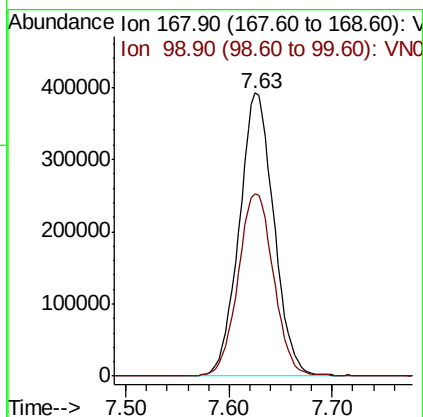
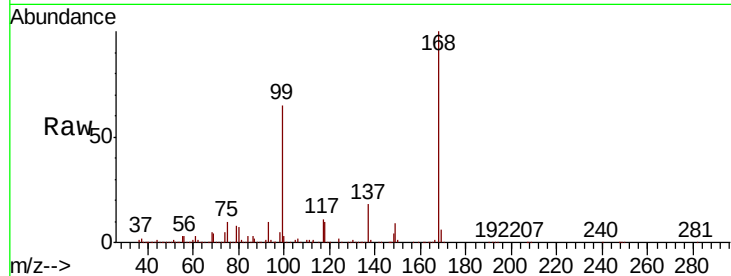




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.00 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

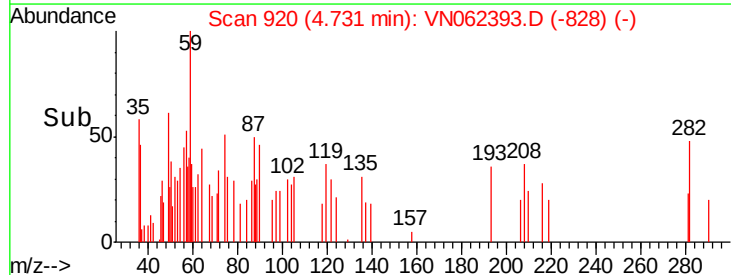
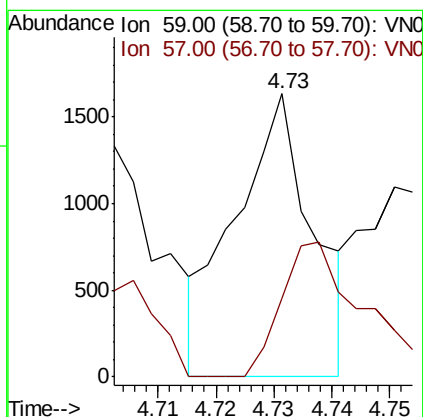
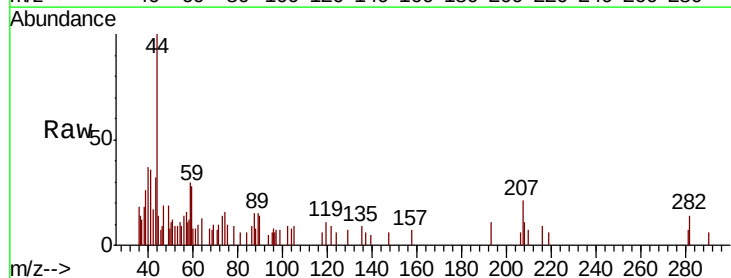
Instrument :
MSVOA_N
ClientSampleId :
RO-COMP

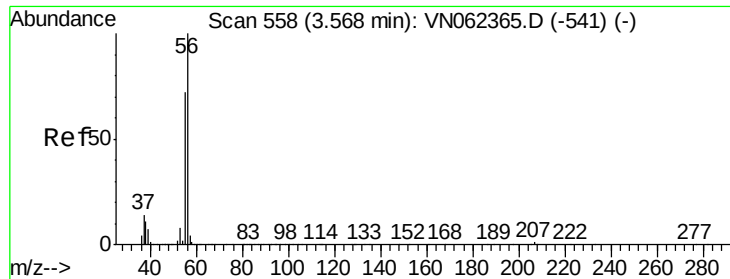
Tot Ion:168 Resp: 915560
Ion Ratio Lower Upper
168 100
99 64.5 52.9 79.3



#11
Tert butyl alcohol
Concen: 0.661 ug/l
RT: 4.73 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

Tgt Ion: 59 Resp: 1515
Ion Ratio Lower Upper
59 100
57 49.3 8.5 12.7#

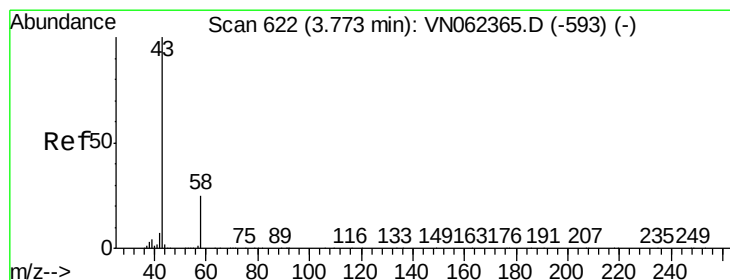
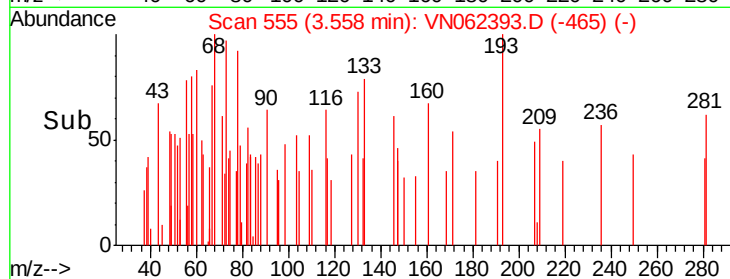
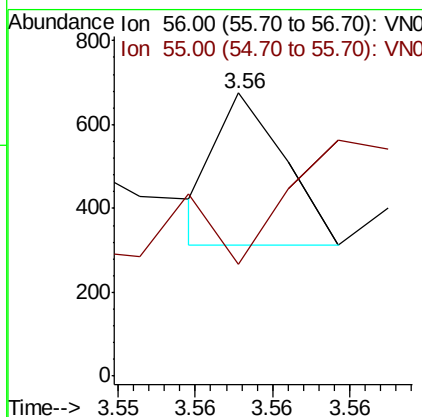
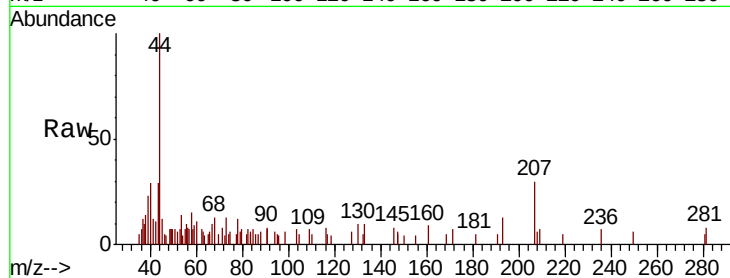




#13
Acrolein
Concen: 0.448 ug/l
RT: 3.56 min Scan# 555
Delta R.T. -0.01 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

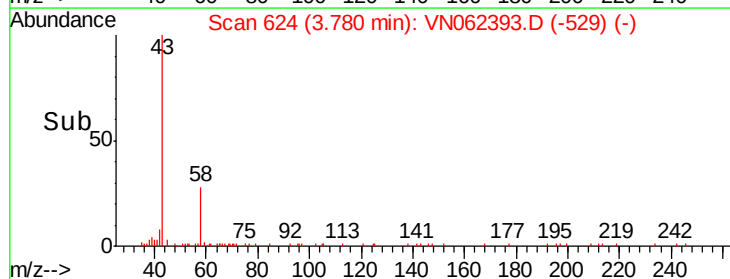
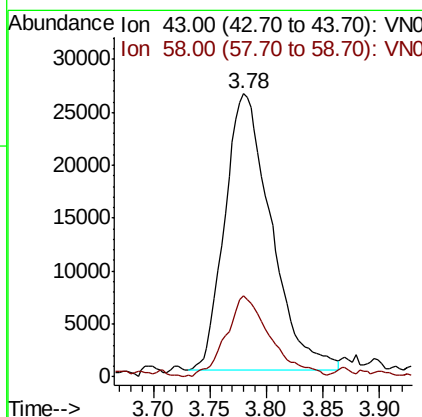
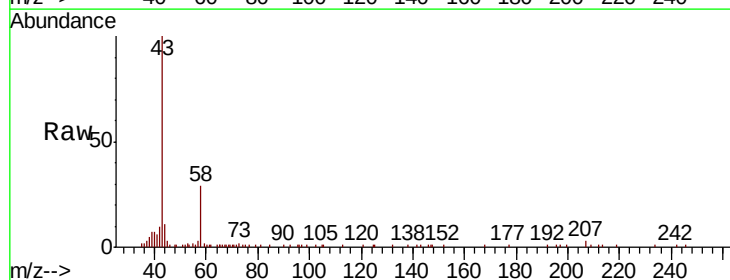
Instrument :
MSVOA_N
ClientSampled :
RO-COMP

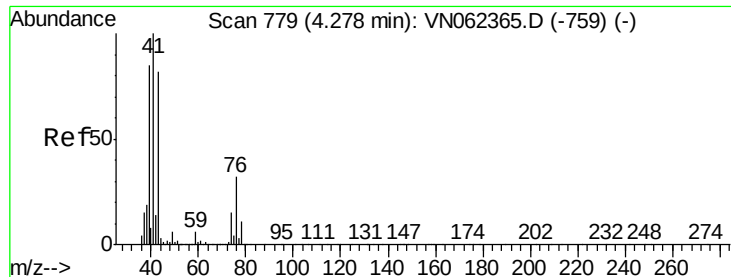
Tot Ion: 56 Resp: 109
Ion Ratio Lower Upper
56 100
55 222.9 59.6 89.4#



#16
Acetone
Concen: 9.827 ug/l
RT: 3.78 min Scan# 624
Delta R.T. 0.01 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

Tgt Ion: 43 Resp: 75032
Ion Ratio Lower Upper
43 100
58 28.9 19.8 29.8

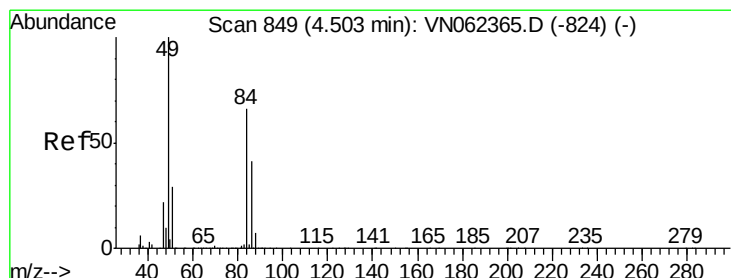
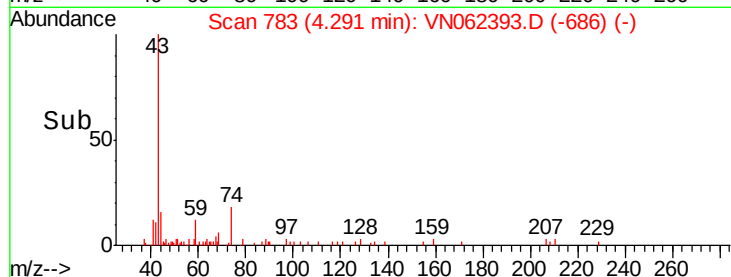
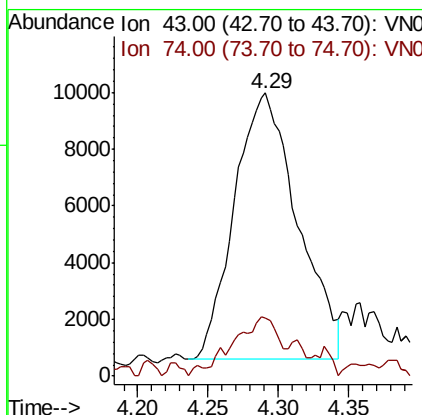
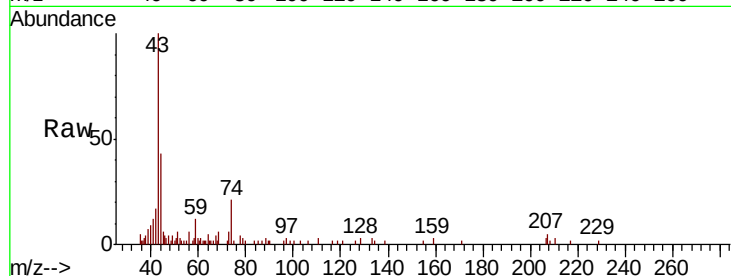




#18
Methvl Acetate
Concen: 1.401 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.01 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

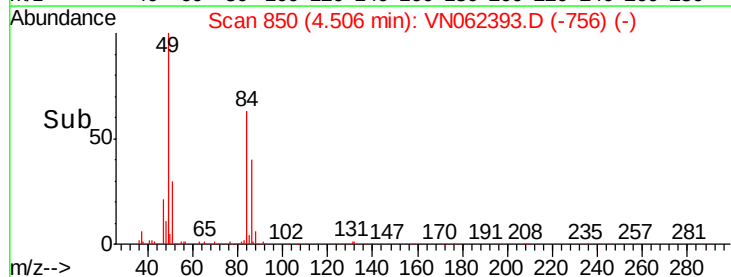
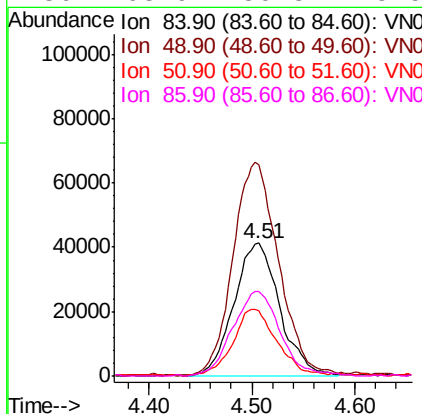
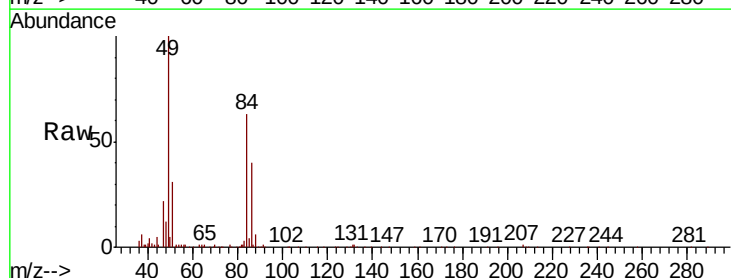
Instrument :
MSVOA_N
ClientSampled :
RO-COMP

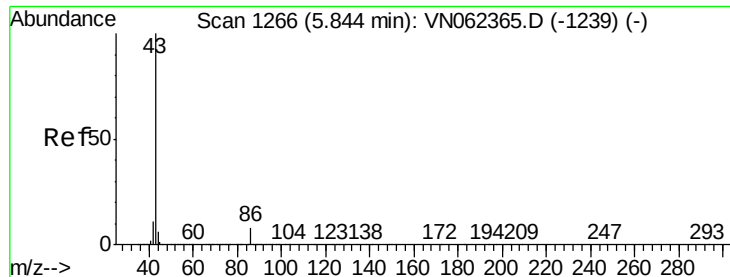
Tot Ion: 43 Resp: 29276
Ion Ratio Lower Upper
43 100
74 15.1 14.2 21.4



#20
Methylene Chloride
Concen: 10.241 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

Tgt Ion: 84 Resp: 127517
Ion Ratio Lower Upper
84 100
49 157.2 121.8 182.6
51 47.9 35.0 52.4
86 63.9 50.3 75.5





#23

Vinyl Acetate

Concen: Below Cal

RT: 5.84 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VN062393.D

Acq: 7 Jul 2020 3:36

Instrument :

MSVOA_N

ClientSampleId :

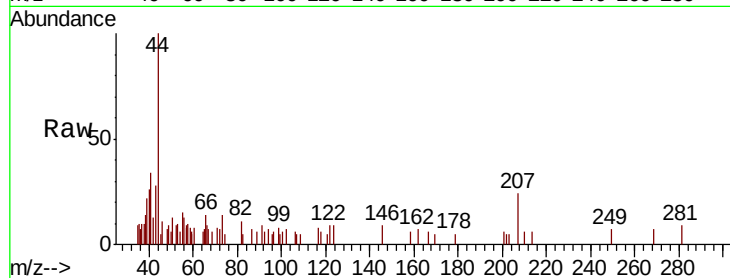
RO-COMP

Tot Ion: 43 Resp: 1086

Ion Ratio Lower Upper

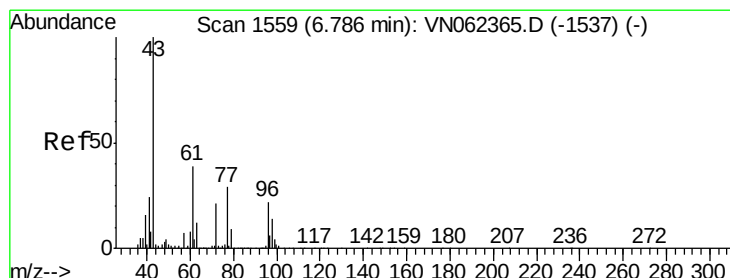
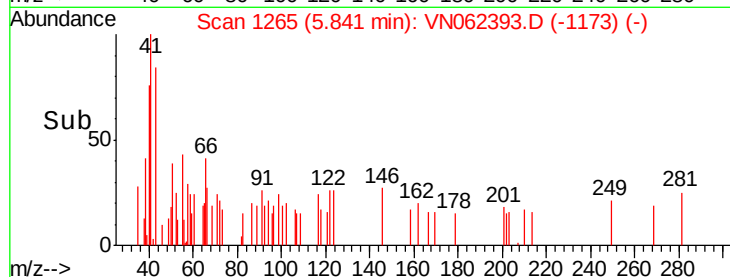
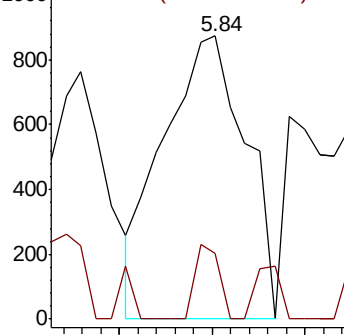
43 100

86 4.7 6.6 9.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#25

2-Butanone

Concen: 1.019 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.02 min

Lab File: VN062393.D

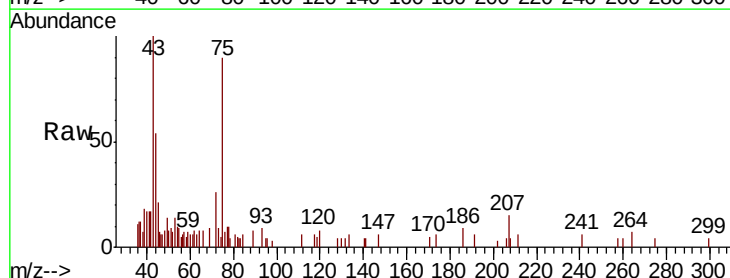
Acq: 7 Jul 2020 3:36

Tgt Ion: 43 Resp: 9801

Ion Ratio Lower Upper

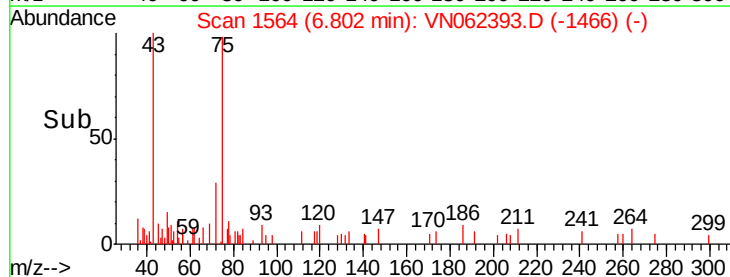
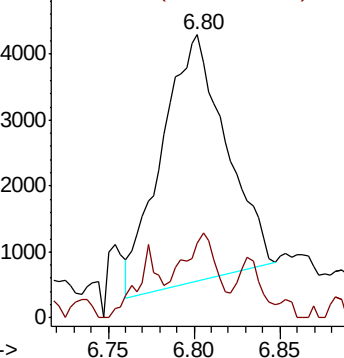
43 100

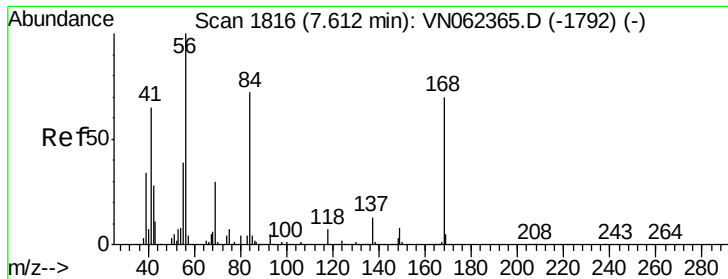
72 26.6 16.4 24.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

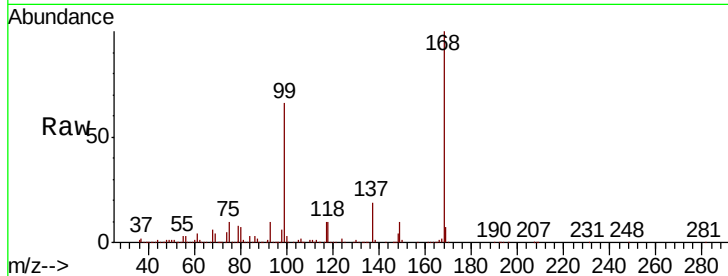




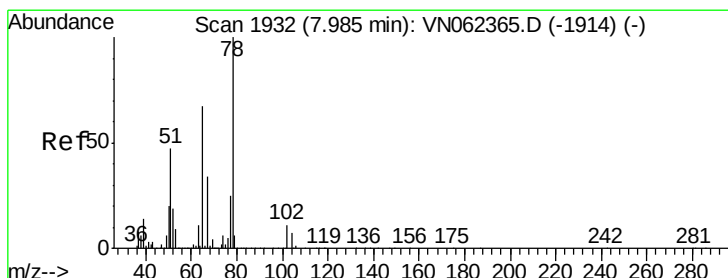
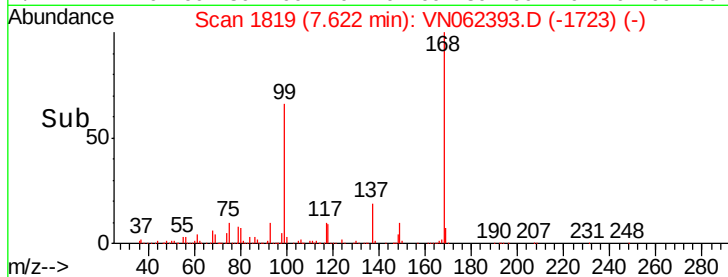
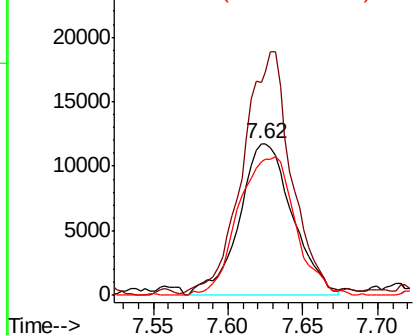
#31
Cyclohexane
Concen: 1.389 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

Instrument :
MSVOA_N
ClientSampleId :
RO-COMP

Tot Ion: 56 Resp: 29175
Ion Ratio Lower Upper
56 100
69 136.8 23.7 35.5#
84 87.9 57.2 85.8#

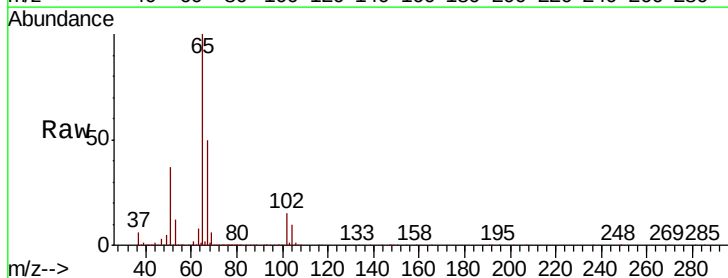


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

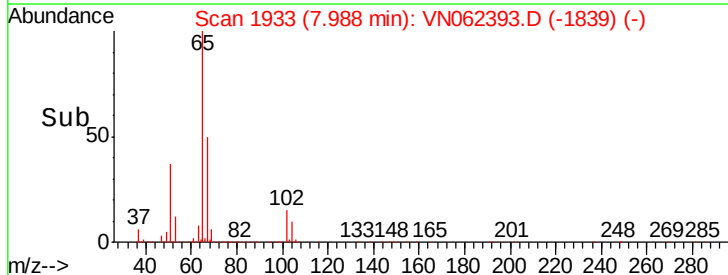
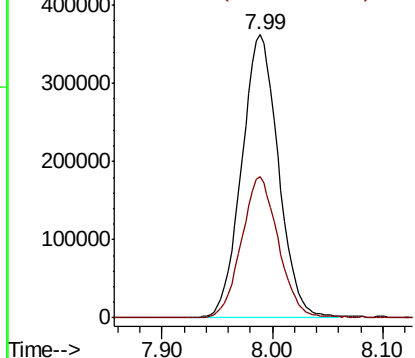


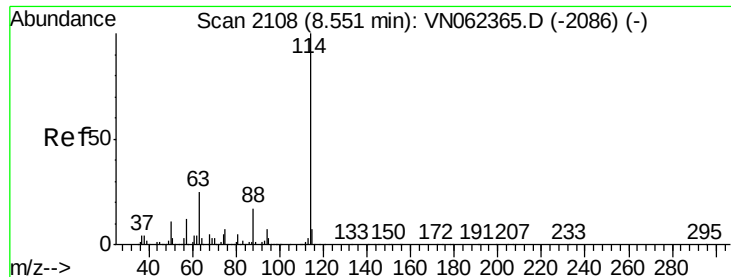
#33
1,2-Dichloroethane-d4
Concen: 50.365 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

Tgt Ion: 65 Resp: 834115
Ion Ratio Lower Upper
65 100
67 50.3 0.0 101.0



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

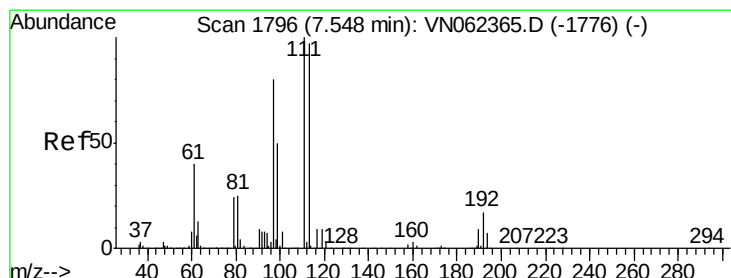
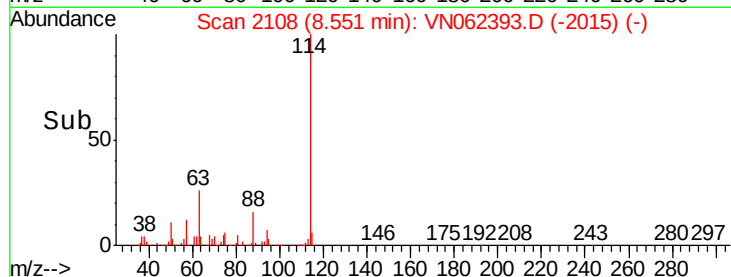
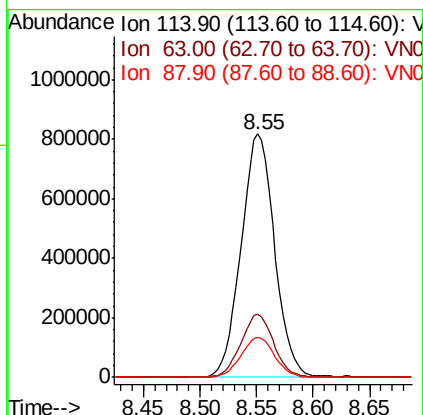
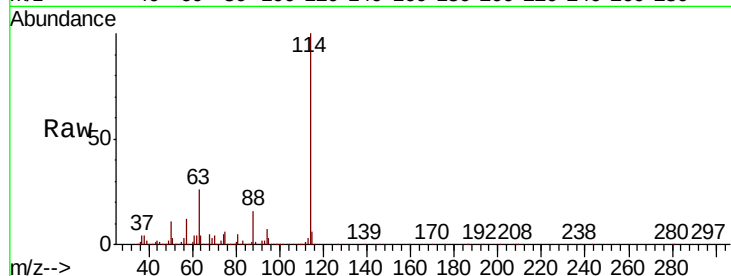




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

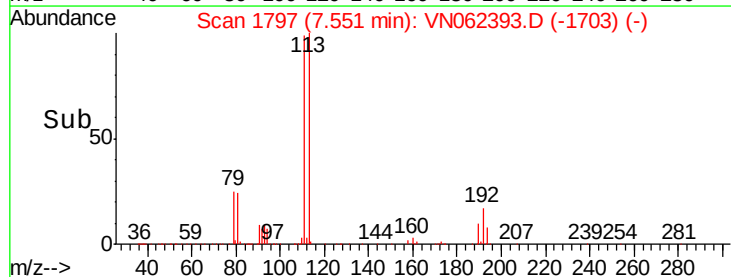
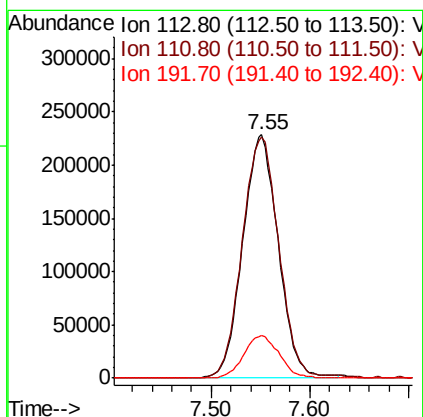
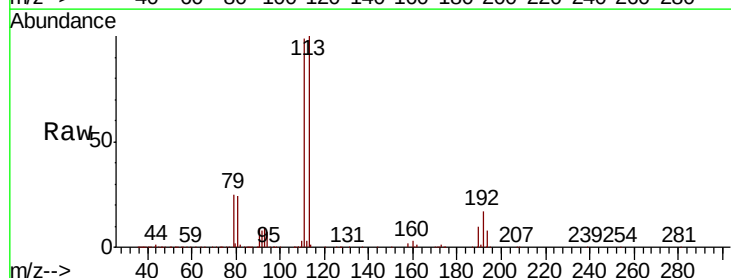
Instrument :
MSVOA_N
ClientSampled :
RO-COMP

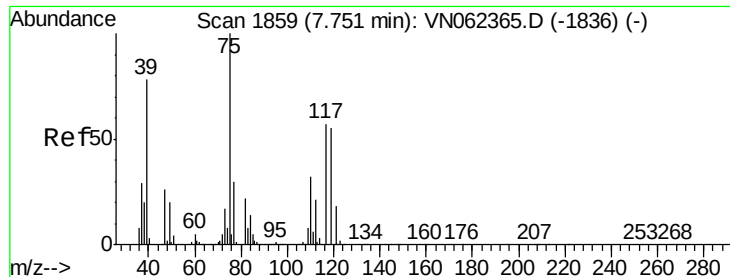
Tot Ion:114 Resp: 1684965
Ion Ratio Lower Upper
114 100
63 26.1 0.0 49.0
88 16.4 0.0 34.0



#35
Dibromofluoromethane
Concen: 49.489 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

Tgt Ion:113 Resp: 568861
Ion Ratio Lower Upper
113 100
111 102.1 83.2 124.8
192 17.5 14.2 21.2





#36

1,1-Dichloropropene

Concen: 4.984 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN062393.D

Acq: 7 Jul 2020 3:36

Instrument :

MSVOA_N

ClientSampleId :

RO-COMP

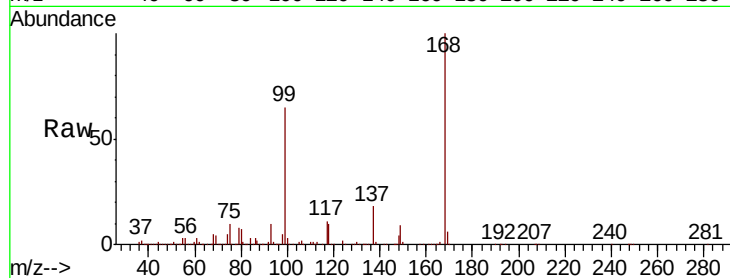
Tot Ion: 75 Resp: 88238

Ion Ratio Lower Upper

75 100

110 7.1 15.7 47.1#

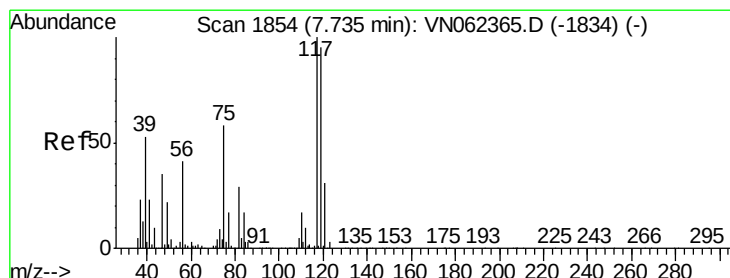
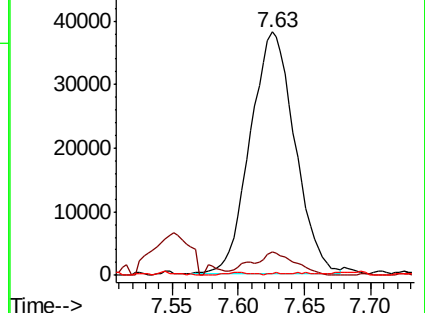
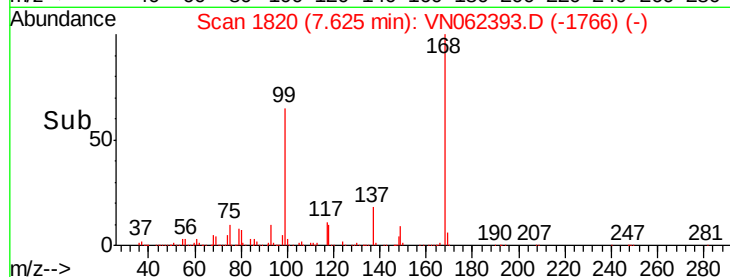
77 0.4 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VN062393.D (-1766) (-)

Ion 109.90 (109.60 to 110.60): VN062393.D (-1766) (-)

Ion 76.90 (76.60 to 77.60): VN062393.D (-1766) (-)



#38

Carbon Tetrachloride

Concen: 5.544 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.11 min

Lab File: VN062393.D

Acq: 7 Jul 2020 3:36

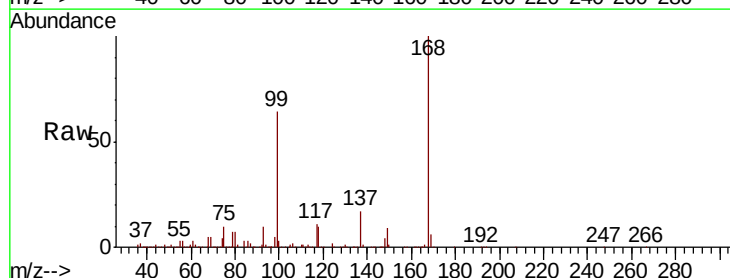
Tgt Ion: 117 Resp: 98705

Ion Ratio Lower Upper

117 100

119 3.7 75.9 113.9#

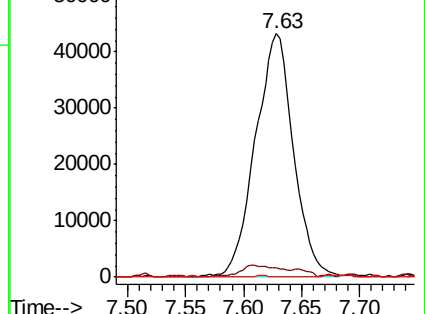
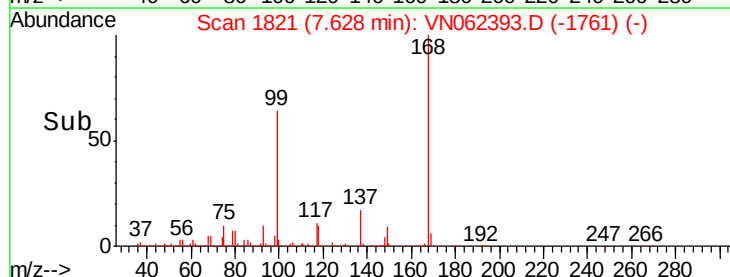
121 0.0 24.6 36.8#

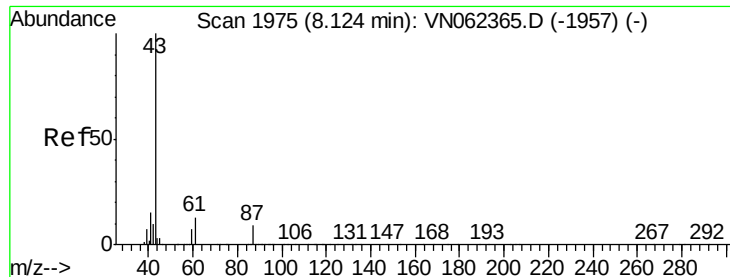


Abundance Ion 116.80 (116.50 to 117.50): VN062393.D (-1761) (-)

Ion 118.80 (118.50 to 119.50): VN062393.D (-1761) (-)

Ion 120.80 (120.50 to 121.50): VN062393.D (-1761) (-)





#43

Isopropyl Acetate

Concen: 9.104 ug/l

RT: 8.13 min Scan# 1977

Delta R.T. 0.01 min

Lab File: VN062393.D

Acq: 7 Jul 2020 3:36

Instrument :

MSVOA_N

ClientSampleId :

RO-COMP

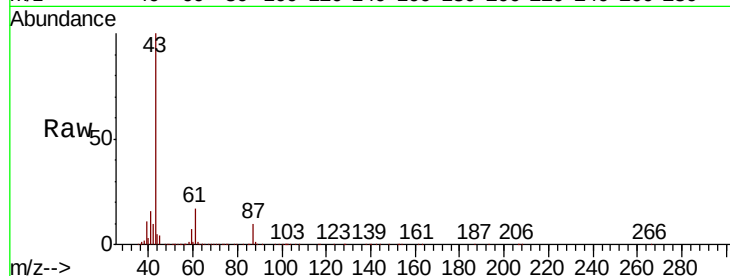
Tot Ion: 43 Resp: 319602

Ion Ratio Lower Upper

43 100

61 16.0 13.1 19.7

87 9.5 7.5 11.3

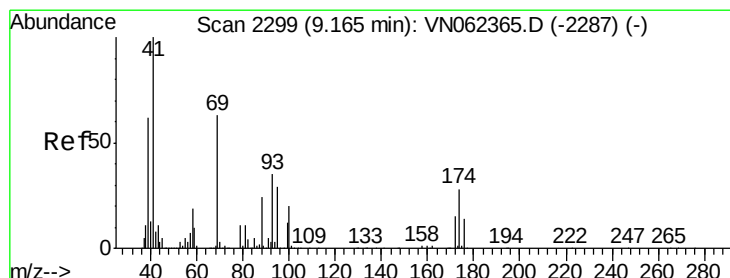
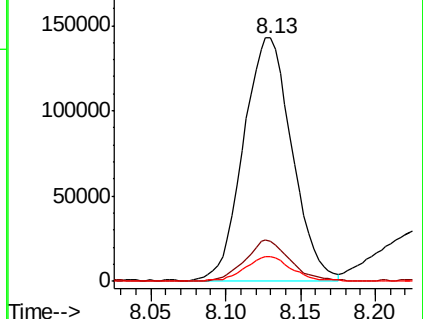
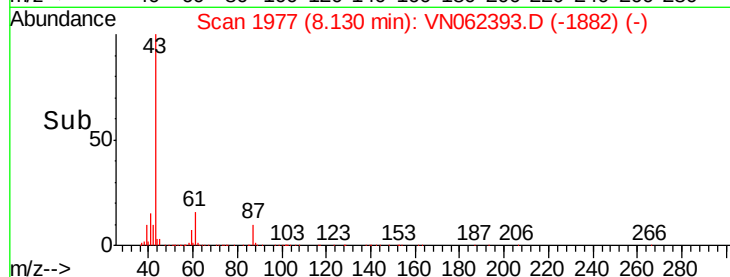


Abundance Ion 43.00 (42.70 to 43.70): VN062365.D (-1957) (-)

Ion 61.00 (60.70 to 61.70): VN062365.D (-1957) (-)

Ion 87.00 (86.70 to 87.70): VN062365.D (-1957) (-)

Time-->



#48

Methyl methacrylate

Concen: 1.071 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.02 min

Lab File: VN062393.D

Acq: 7 Jul 2020 3:36

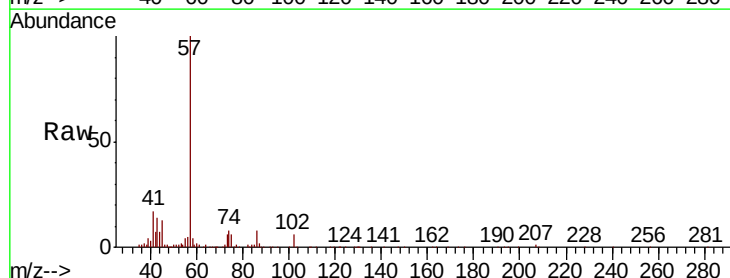
Tgt Ion: 41 Resp: 19184

Ion Ratio Lower Upper

41 100

69 2.8 51.5 77.3#

39 0.0 51.2 76.8#

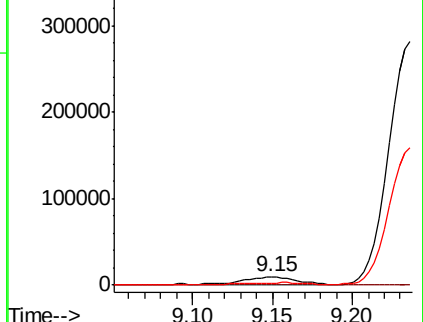
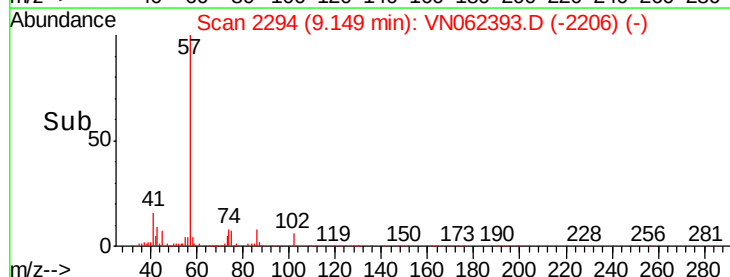


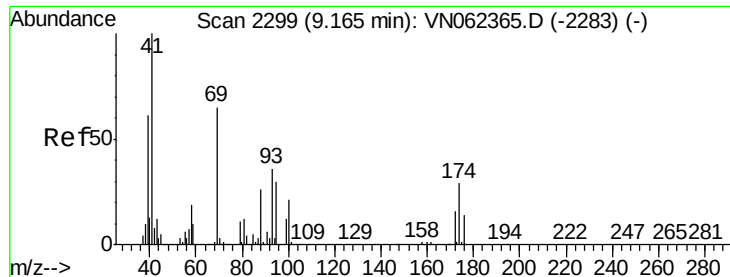
Abundance Ion 41.00 (40.70 to 41.70): VN062365.D (-2287) (-)

Ion 69.00 (68.70 to 69.70): VN062365.D (-2287) (-)

Ion 39.00 (38.70 to 39.70): VN062365.D (-2287) (-)

Time-->

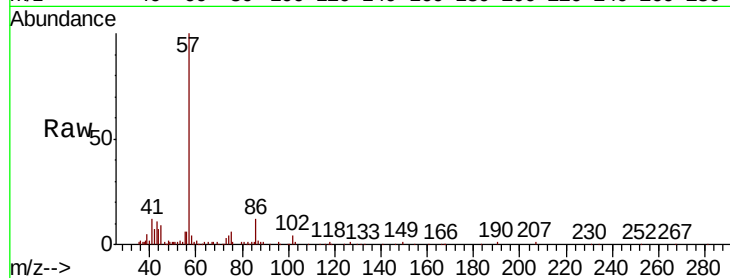




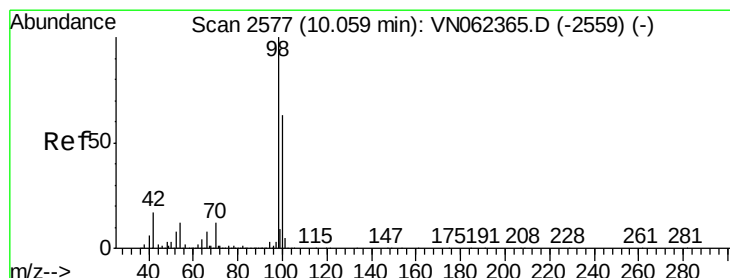
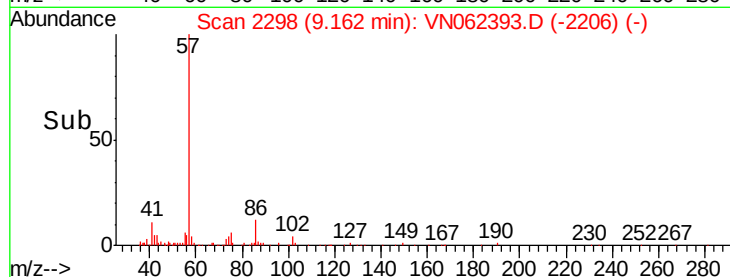
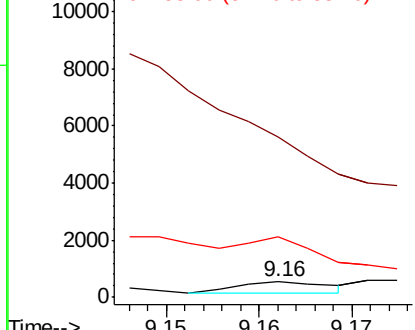
#49
1,4-Dioxane
Concen: 1.060 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.00 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

Instrument :
MSVOA_N
ClientSampled :
RO-COMP

Tot Ion: 88 Resp: 258
Ion Ratio Lower Upper
88 100
43 0.0 34.0 51.0#
58 0.0 63.0 94.4#

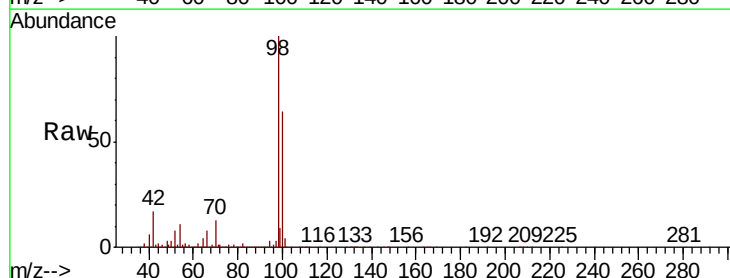


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

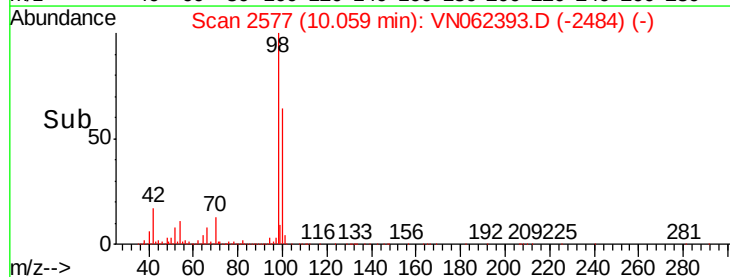
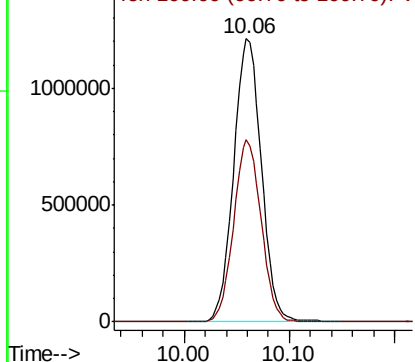


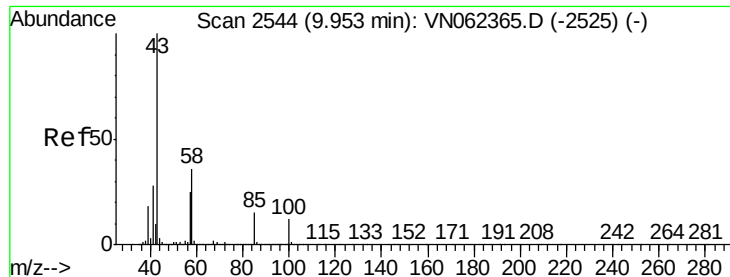
#50
Toluene-d8
Concen: 51.410 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

Tgt Ion: 98 Resp: 2209056
Ion Ratio Lower Upper
98 100
100 63.7 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

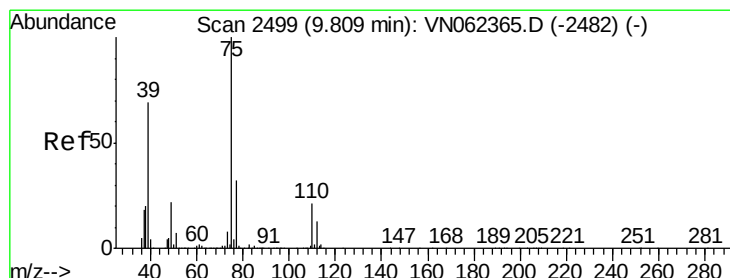
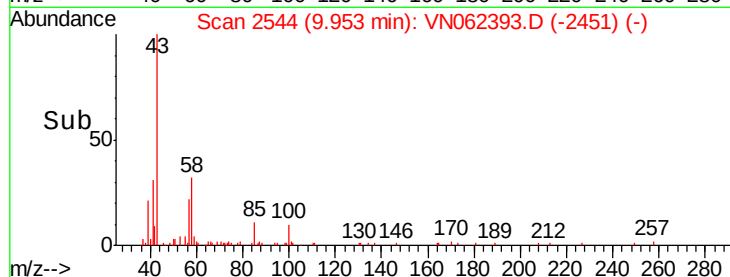
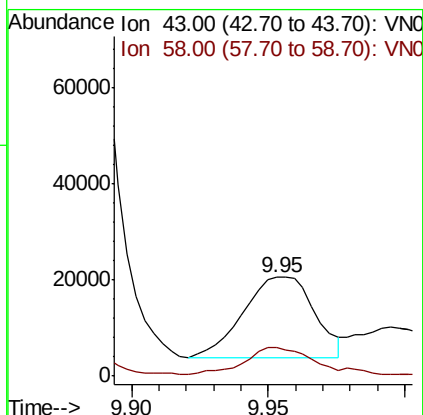
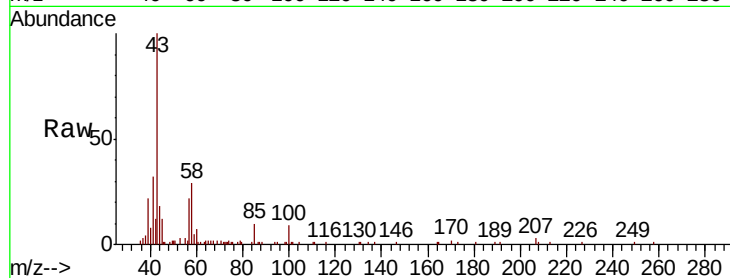




#51
4-Methyl-2-Pentanone
Concen: 1.155 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. 0.00 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

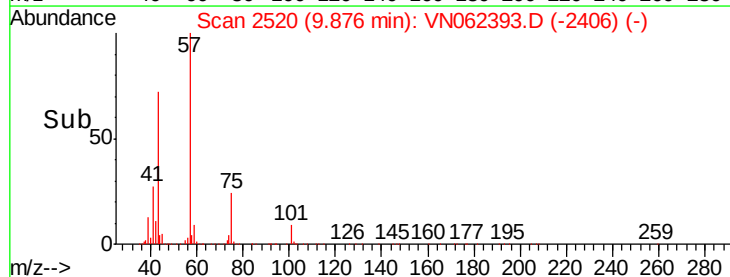
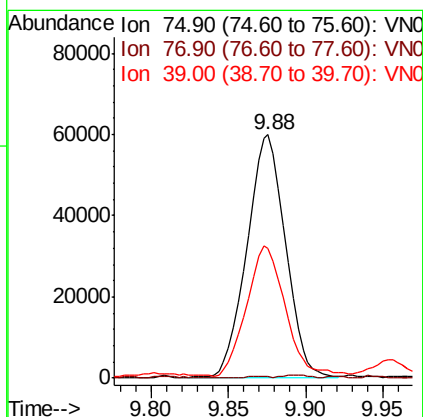
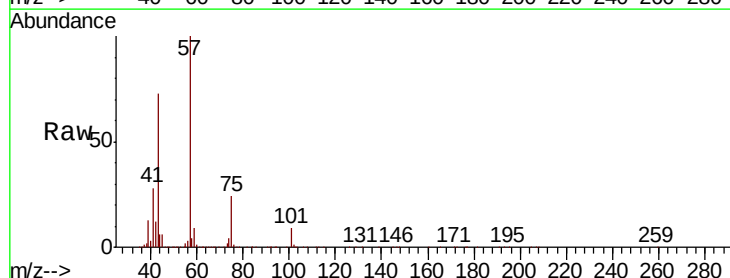
Instrument :
MSVOA_N
ClientSampled :
RO-COMP

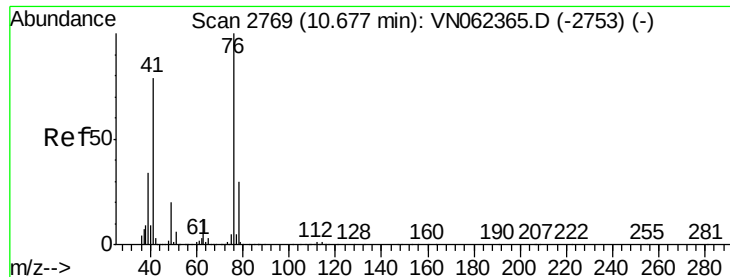
Tot Ion: 43 Resp: 30432
Ion Ratio Lower Upper
43 100
58 34.5 27.6 41.4



#54
cis-1,3-Dichloropropene
Concen: 4.682 ug/l
RT: 9.88 min Scan# 2520
Delta R.T. 0.07 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

Tgt Ion: 75 Resp: 104553
Ion Ratio Lower Upper
75 100
77 0.3 26.0 39.0#
39 52.0 55.3 82.9#





#57

1,3-Dichloropropane

Concen: 0.742 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062393.D

Acq: 7 Jul 2020 3:36

Instrument :

MSVOA_N

ClientSampleId :

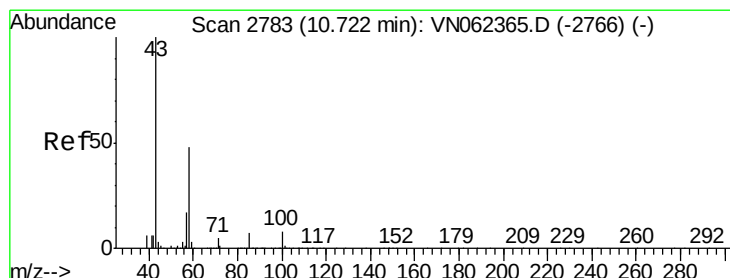
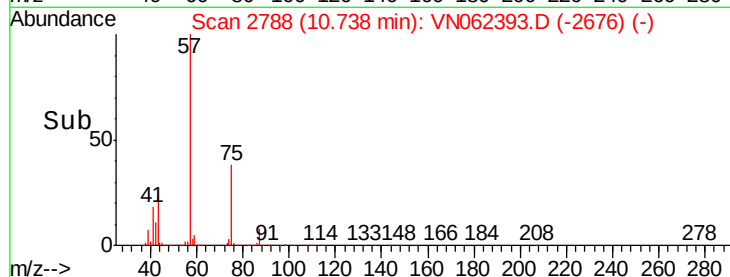
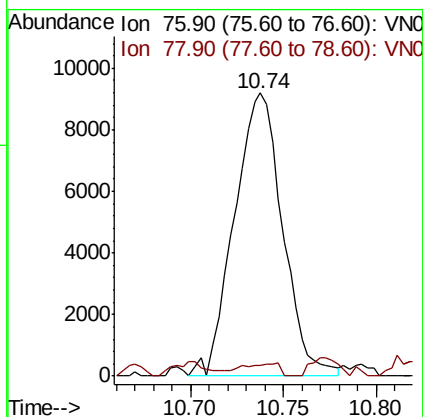
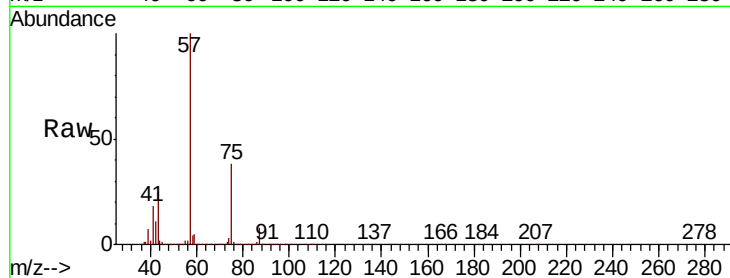
RO-COMP

Tot Ion: 76 Resp: 16611

Ion Ratio Lower Upper

76 100

78 3.5 25.0 37.4#



#59

2-Hexanone

Concen: 22.182 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062393.D

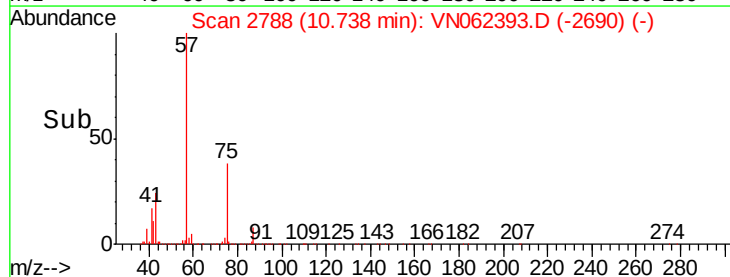
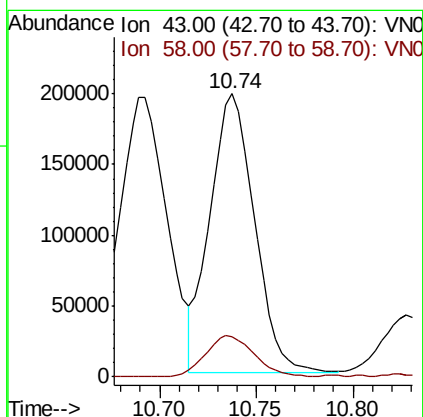
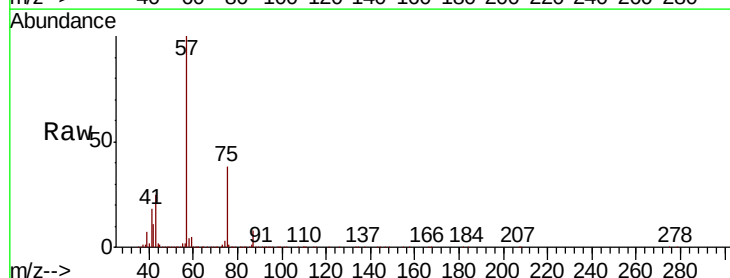
Acq: 7 Jul 2020 3:36

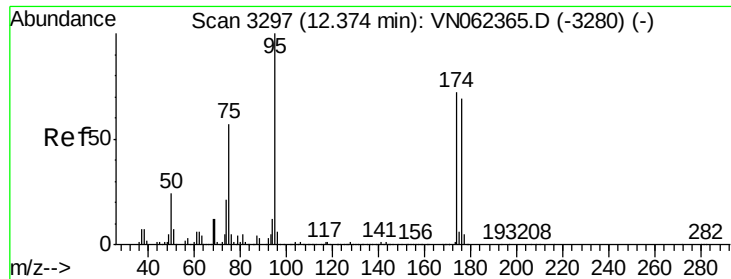
Tgt Ion: 43 Resp: 315620

Ion Ratio Lower Upper

43 100

58 15.9 23.5 70.6#

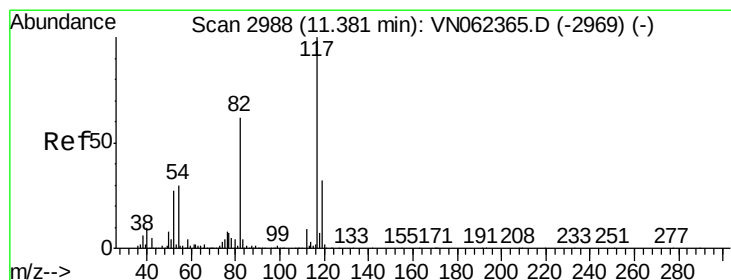
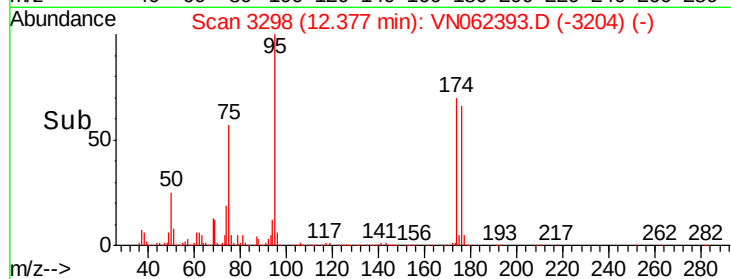
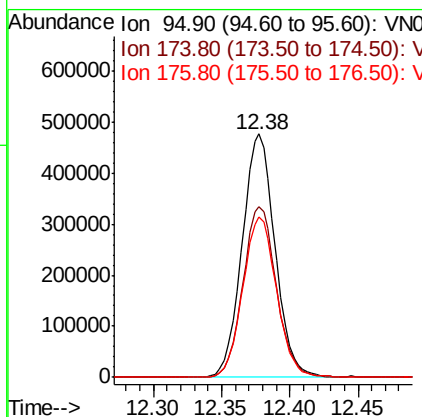
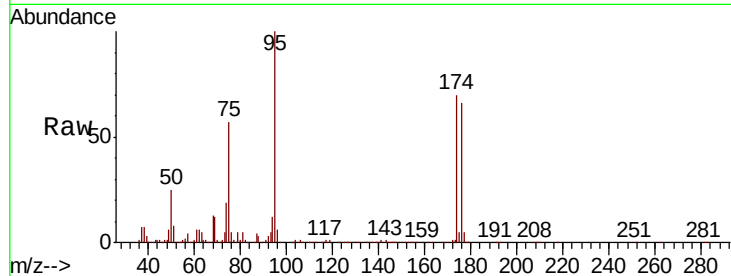




#62
4-Bromofluorobenzene
Concen: 48.414 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

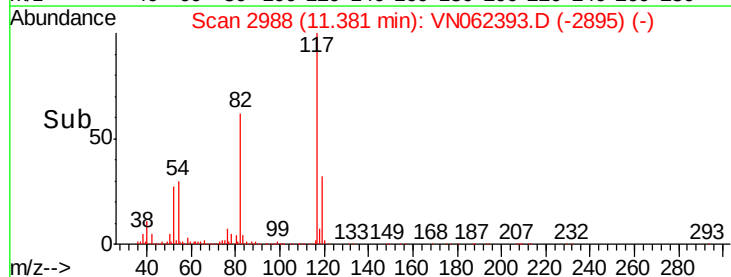
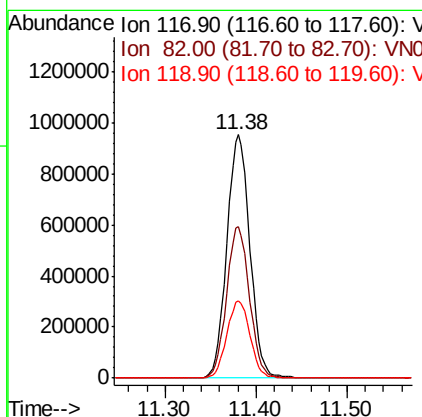
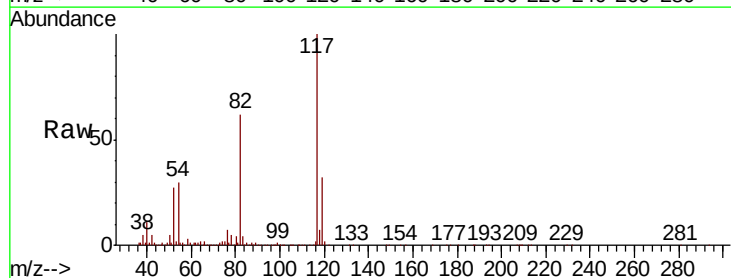
Instrument :
MSVOA_N
ClientSampleId :
RO-COMP

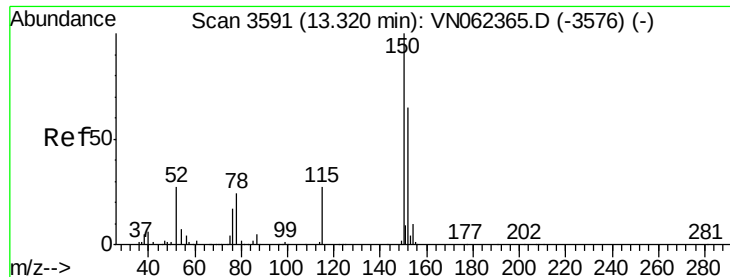
Tot Ion: 95 Resp: 796742
Ion Ratio Lower Upper
95 100
174 71.5 0.0 145.8
176 67.7 0.0 140.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

Tgt Ion: 117 Resp: 1675264
Ion Ratio Lower Upper
117 100
82 62.0 49.4 74.2
119 31.9 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VN062393.D

Acq: 7 Jul 2020 3:36

Instrument :

MSVOA_N

ClientSampleId :

RO-COMP

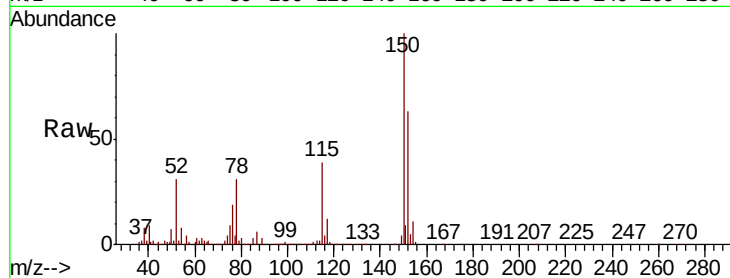
Tot Ion:152 Resp: 613432

Ion Ratio Lower Upper

152 100

115 62.7 30.5 91.5

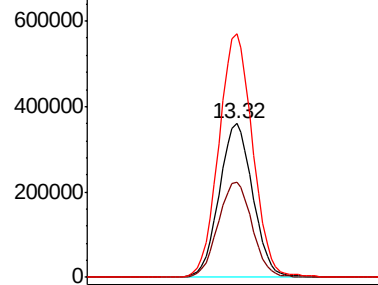
150 159.7 0.0 346.8



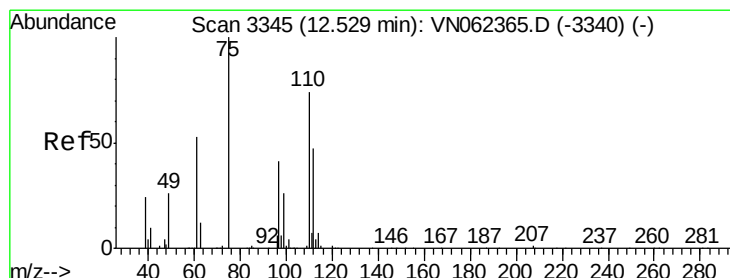
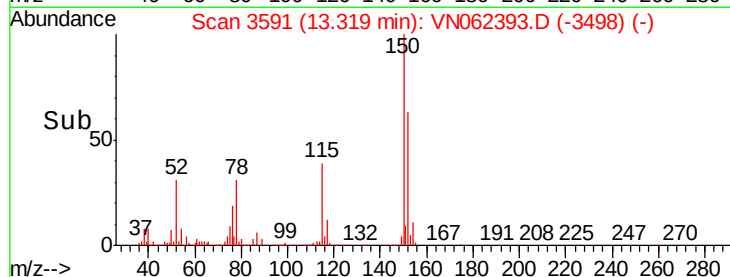
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time-->



#76

1,2,3-Trichloropropane

Concen: 30.550 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062393.D

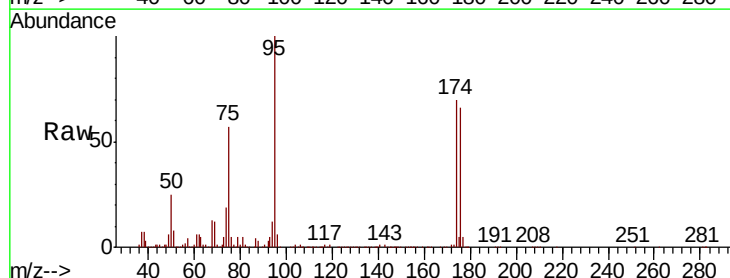
Acq: 7 Jul 2020 3:36

Tgt Ion: 75 Resp: 452650

Ion Ratio Lower Upper

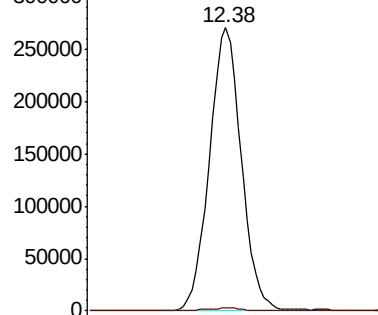
75 100

77 1.3 0.0 0.0#

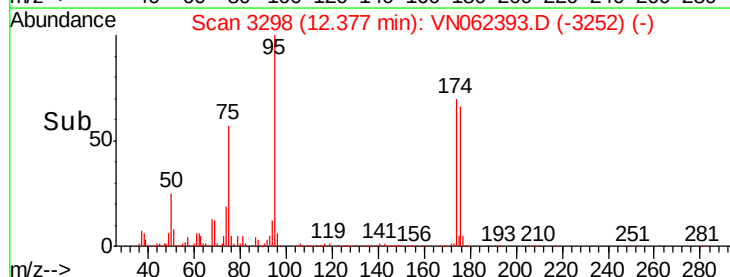


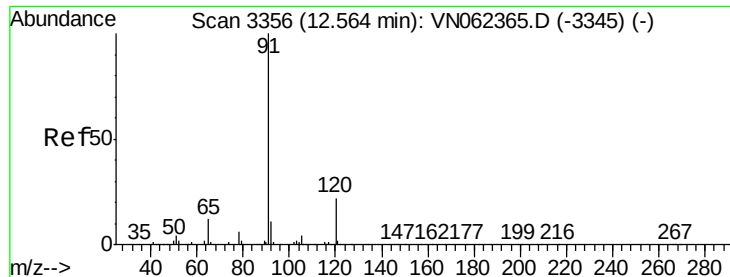
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time-->

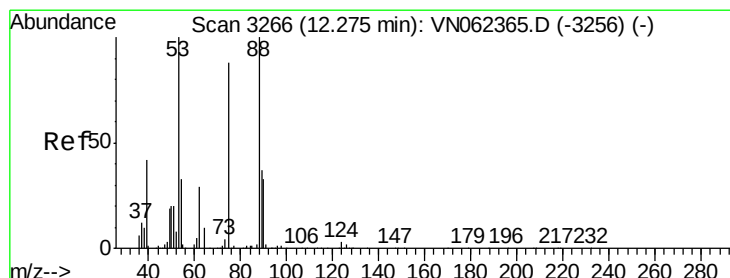
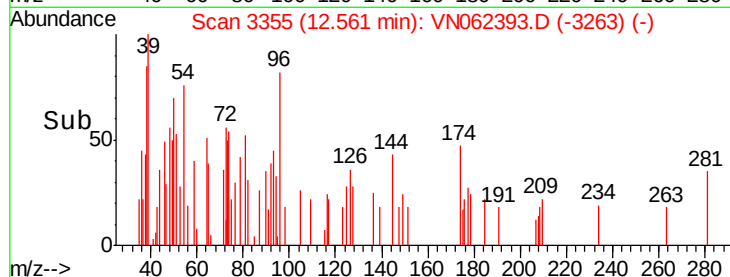
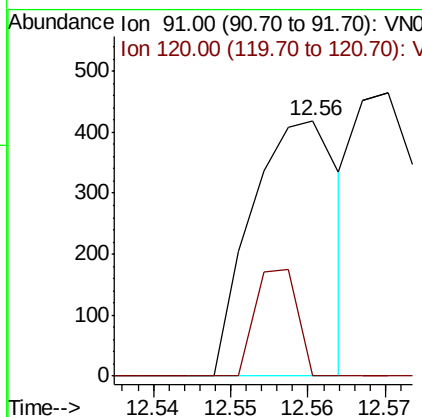
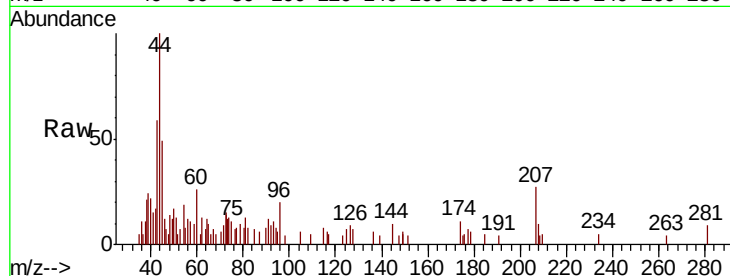




#78
n-propylbenzene
Concen: 0.288 ug/l
RT: 12.56 min Scan# 3355
Delta R.T. -0.00 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

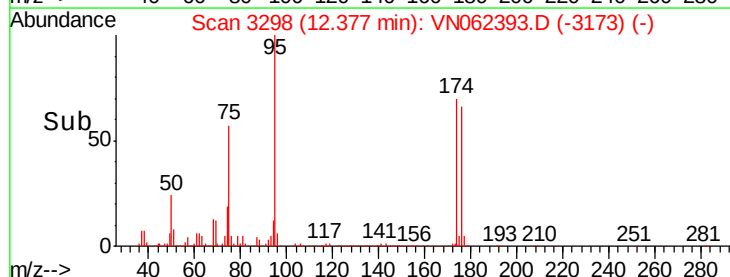
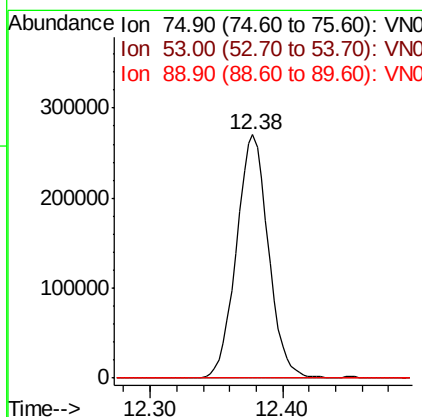
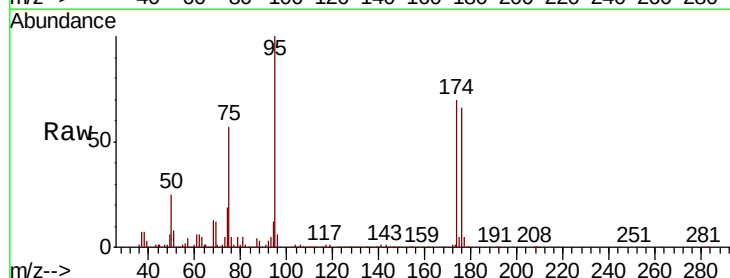
Instrument :
MSVOA_N
ClientSampled :
RO-COMP

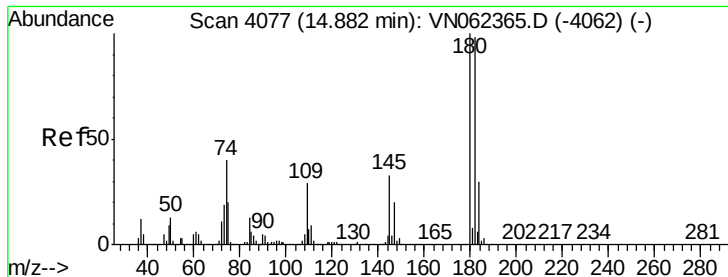
Tot Ion: 91 Resp: 329
Ion Ratio Lower Upper
91 100
120 20.4 10.9 32.6



#81
trans-1,4-Dichloro-2-butene
Concen: 87.363 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN062393.D
Acq: 7 Jul 2020 3:36

Tgt Ion: 75 Resp: 452650
Ion Ratio Lower Upper
75 100
53 0.3 92.3 138.5#
89 0.0 37.0 55.4#

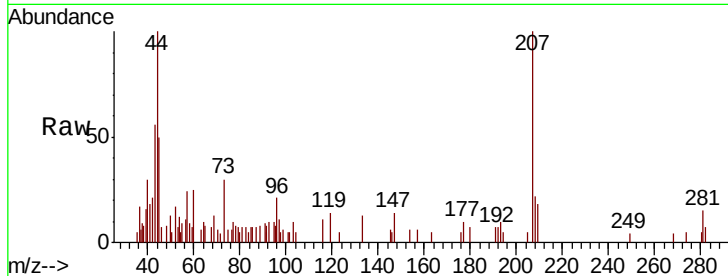




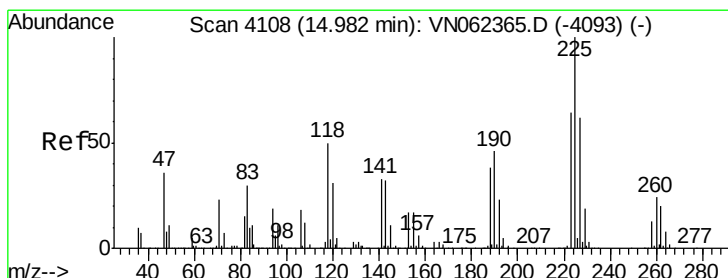
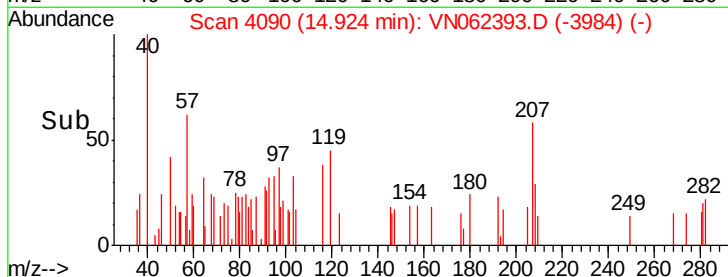
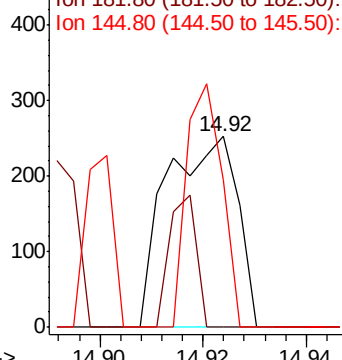
#93
 1,2,4-Trichlorobenzene
 Concen: 2.754 ug/l
 RT: 14.92 min Scan# 4090
 Delta R.T. 0.04 min
 Lab File: VN062393.D
 Acq: 7 Jul 2020 3:36

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-COMP

Tot Ion:180 Resp: 240
 Ion Ratio Lower Upper
 180 100
 182 26.3 47.6 142.8#
 145 63.7 15.9 47.7#

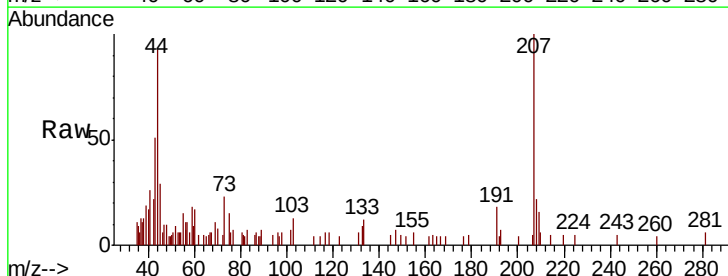


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

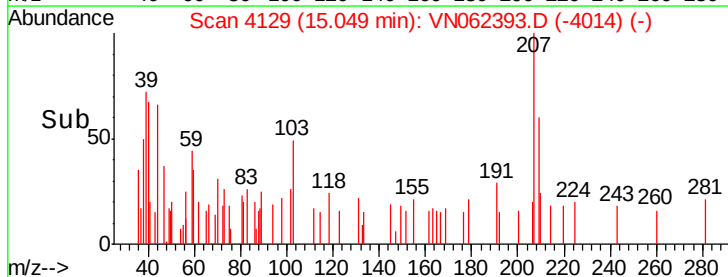
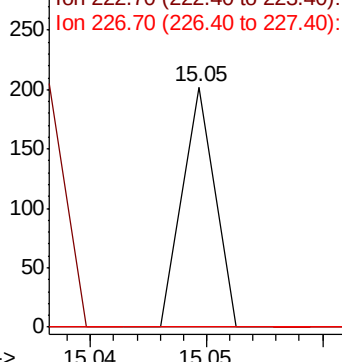


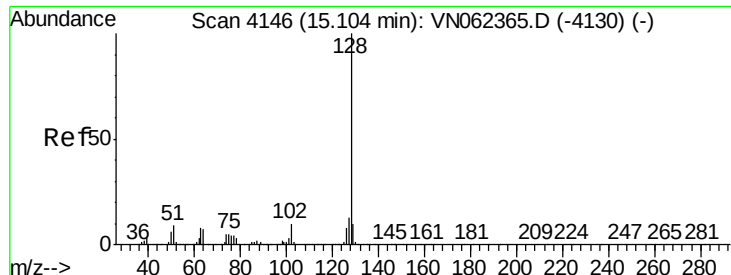
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.05 min Scan# 4129
 Delta R.T. 0.07 min
 Lab File: VN062393.D
 Acq: 7 Jul 2020 3:36

Tgt Ion:225 Resp: 39
 Ion Ratio Lower Upper
 225 100
 223 228.2 31.7 95.1#
 227 0.0 30.3 90.8#



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Napthalene

Concen: 2.078 ug/l

RT: 15.09 min Scan# 4143

Delta R.T. -0.01 min

Lab File: VN062393.D

Acq: 7 Jul 2020 3:36

Instrument :

MSVOA_N

ClientSampleId :

RO-COMP

Tot Ion:128 Resp: 321

Ion Ratio Lower Upper

128 100

127 46.1 10.8 16.2#

129 21.5 8.6 12.8#

