

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110420\
 Data File : VN064441.D
 Acq On : 4 Nov 2020 17:13
 Operator : JC/MD
 Sample : L4627-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 05 00:48:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 12:09:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	252696	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	503019	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	514446	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	196116	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	237021	53.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.70%	
35) Dibromofluoromethane	7.55	113	171307	50.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.04%	
50) Toluene-d8	10.06	98	642368	48.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.06%	
62) 4-Bromofluorobenzene	12.38	95	253101	50.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.12%	

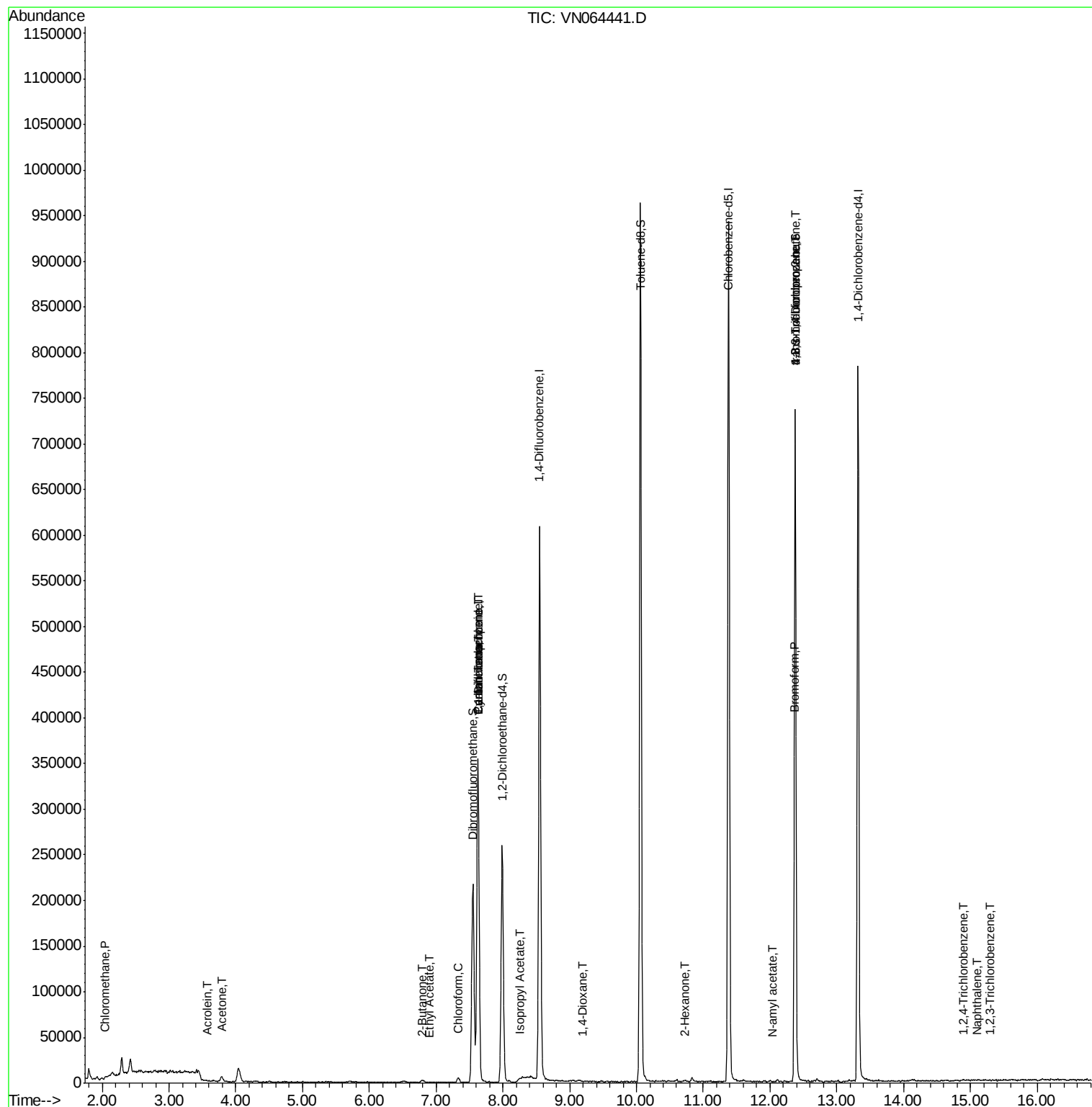
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	834	0.209	ug/l	97
13) Acrolein	3.57	56	252	0.837	ug/l #	47
16) Acetone	3.79	43	9295	5.544	ug/l	97
25) 2-Butanone	6.80	43	433	0.203	ug/l #	52
30) Chloroform	7.33	83	5143	0.793	ug/l #	82
31) Cyclohexane	7.63	56	7821	1.462	ug/l #	14
36) 1,1-Dichloropropene	7.63	75	25199	4.742	ug/l #	54
37) Ethyl Acetate	6.89	43	65	0.774	ug/l #	71
38) Carbon Tetrachloride	7.63	117	28865	5.082	ug/l #	17
43) Isopropyl Acetate	8.25	43	3727	0.433	ug/l #	64
49) 1,4-Dioxane	9.18	88	106	1.852	ug/l #	37
59) 2-Hexanone	10.72	43	307	4.102	ug/l #	28
71) Bromoform	12.35	173	34	1.286	ug/l #	29
74) N-amyl acetate	12.05	43	246	1.246	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	142125	29.910	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	142125	83.513	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.89	180	138	2.705	ug/l #	84
95) Naphthalene	15.11	128	853	3.696	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.30	180	121	2.813	ug/l #	12

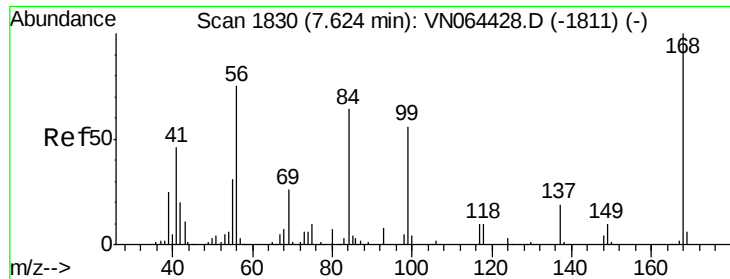
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064441.D

Acq: 4 Nov 2020 17:13

Instrument :

MSVOA_N

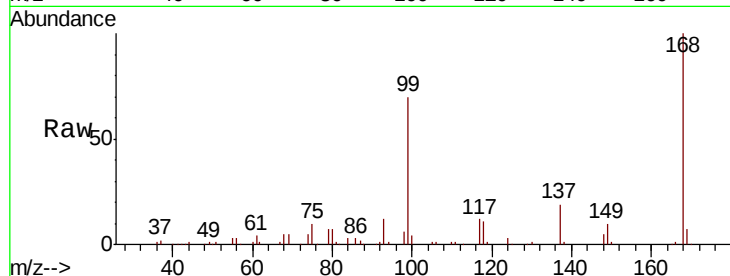
ClientSampleId :

Tot Ion:168 Resp: 252696

Ion Ratio Lower Upper

168 100

99 70.2 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

120000

100000

80000

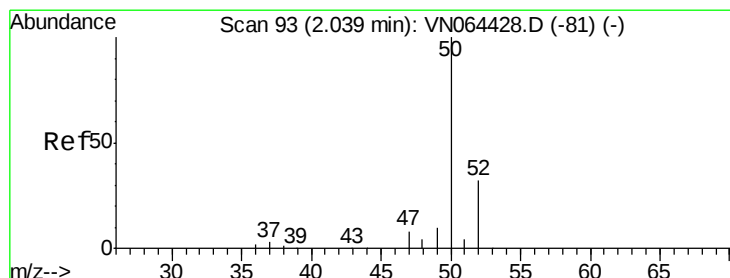
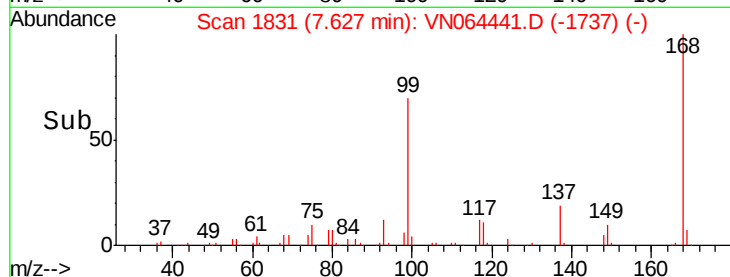
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.209 ug/l

RT: 2.04 min Scan# 93

Delta R.T. -0.00 min

Lab File: VN064441.D

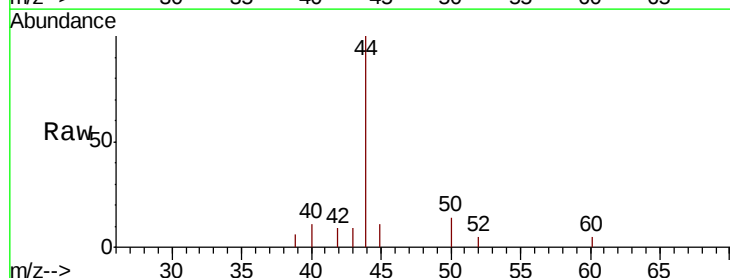
Acq: 4 Nov 2020 17:13

Tgt Ion: 50 Resp: 834

Ion Ratio Lower Upper

50 100

52 33.4 25.3 37.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

600

500

400

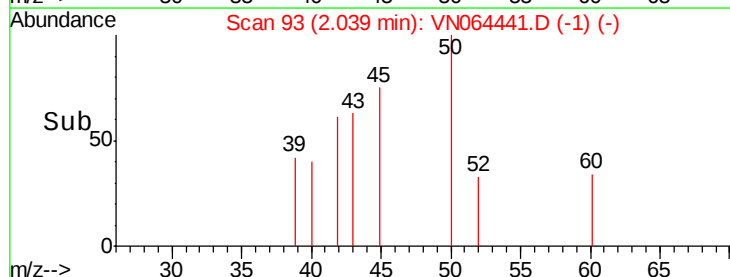
300

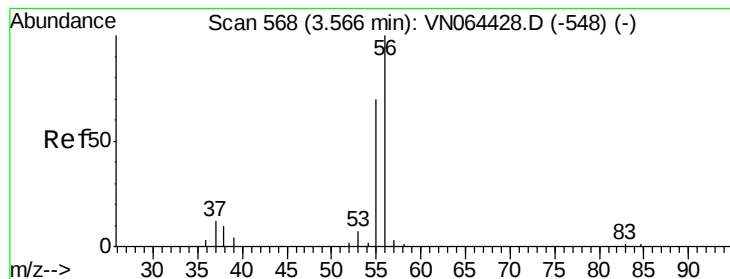
200

100

0

Time--> 2.00 2.02 2.04 2.06 2.08





#13

Acrolein

Concen: 0.837 ug/l

RT: 3.57 min Scan# 570

Delta R.T. 0.01 min

Lab File: VN064441.D

Acq: 4 Nov 2020 17:13

Instrument :

MSVOA_N

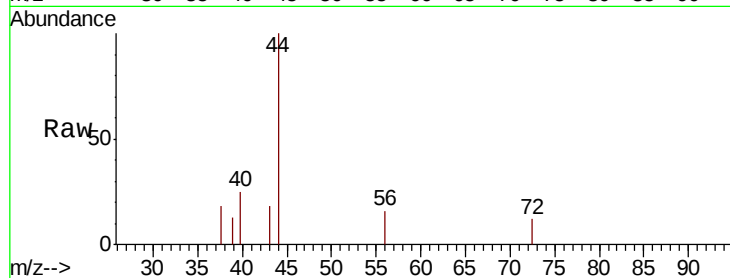
ClientSampleId :

Tot Ion: 56 Resp: 252

Ion Ratio Lower Upper

56 100

55 26.2 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VN064441.D (-548) (-)

Ion 55.00 (54.70 to 55.70): VN064441.D (-548) (-)

3.57

200

150

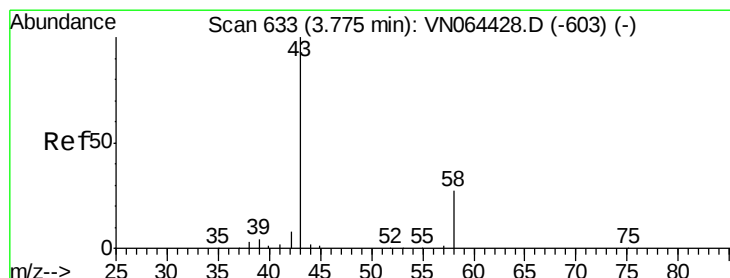
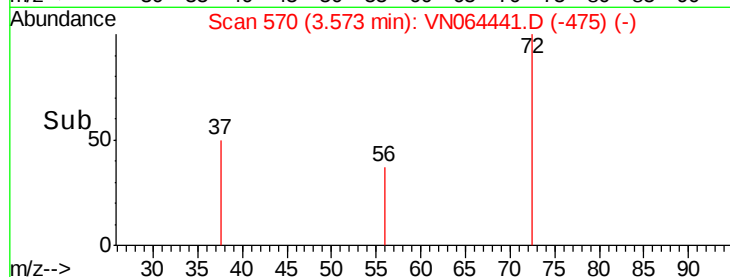
100

50

0

3.56 3.58 3.60

Time-->



#16

Acetone

Concen: 5.544 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064441.D

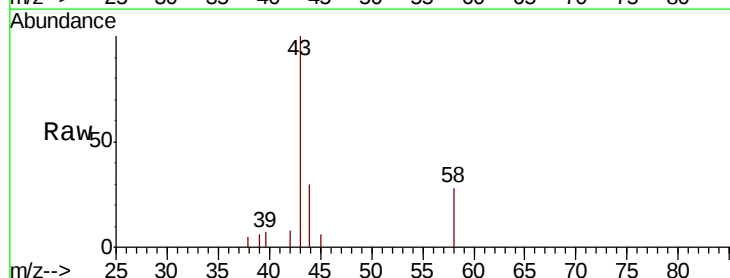
Acq: 4 Nov 2020 17:13

Tgt Ion: 43 Resp: 9295

Ion Ratio Lower Upper

43 100

58 28.5 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VN064441.D (-540) (-)

Ion 58.00 (57.70 to 58.70): VN064441.D (-540) (-)

3.79

4000

3000

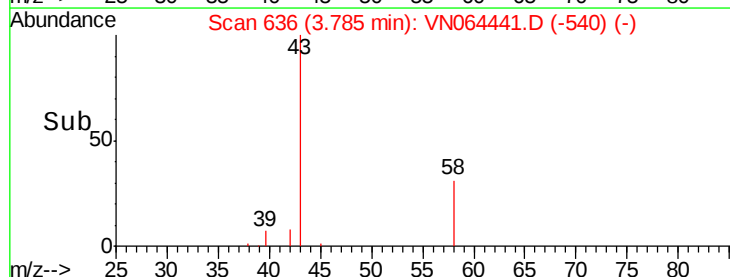
2000

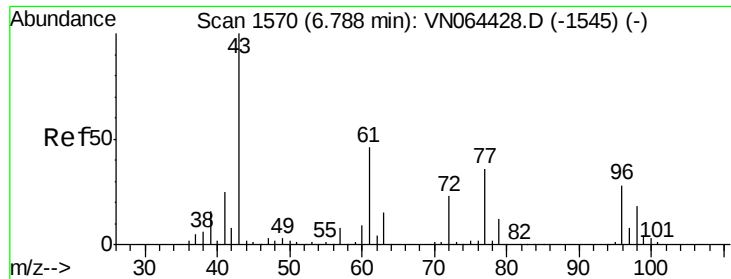
1000

0

3.70 3.75 3.80 3.85

Time-->

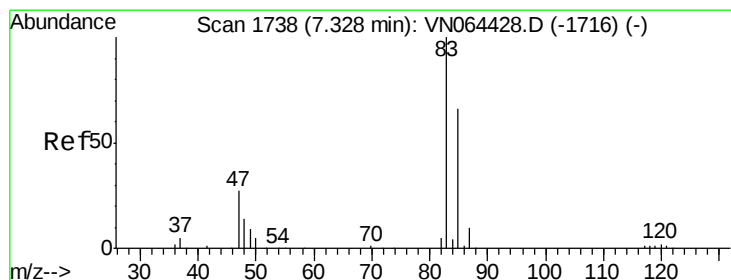
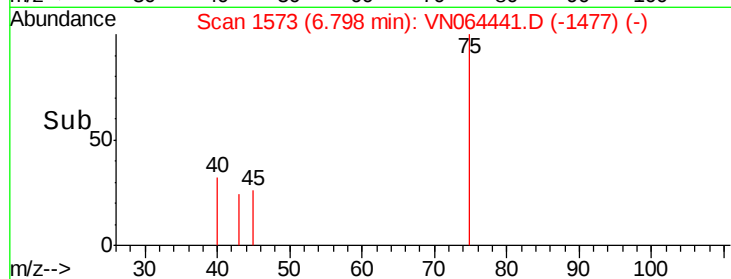
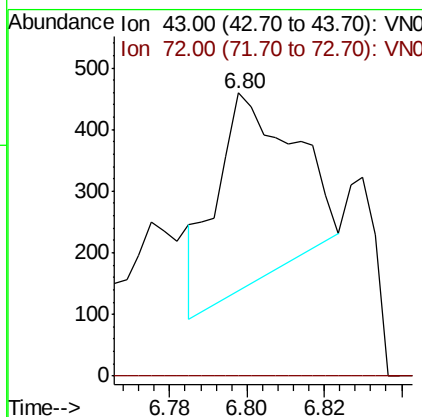
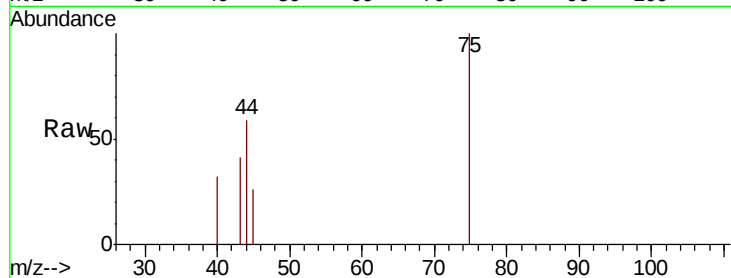




#25
 2-Butanone
 Concen: 0.203 ug/l
 RT: 6.80 min Scan# 1573
 Delta R.T. 0.01 min
 Lab File: VN064441.D
 Acq: 4 Nov 2020 17:13

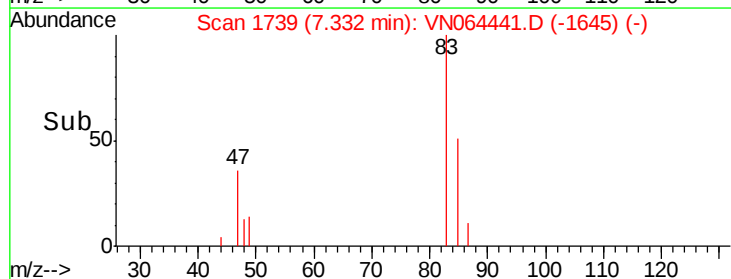
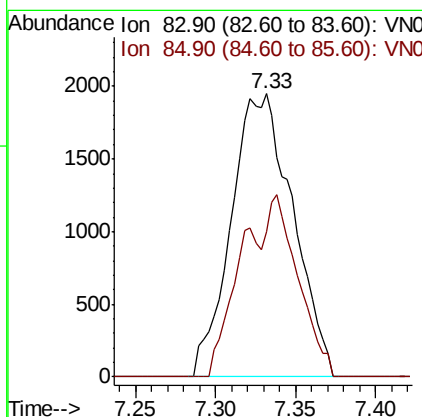
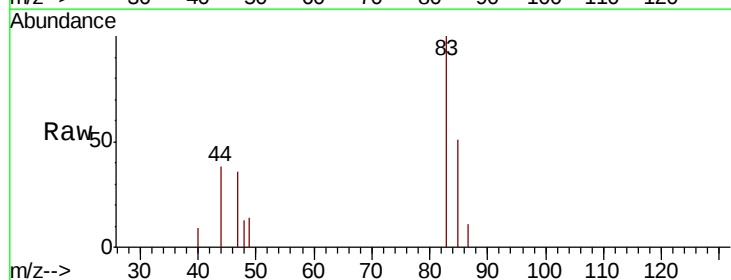
Instrument :
 MSVOA_N
 ClientSampleId :

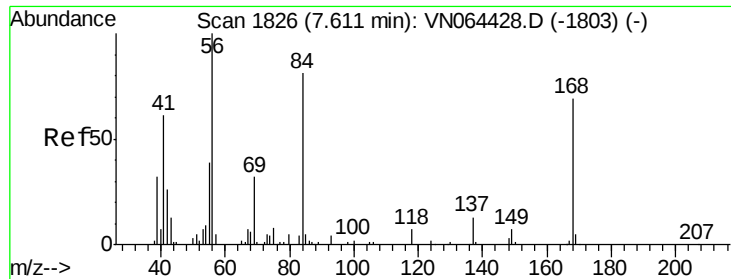
Tot Ion: 43 Resp: 433
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.5 27.7#



#30
 Chloroform
 Concen: 0.793 ug/l
 RT: 7.33 min Scan# 1739
 Delta R.T. 0.00 min
 Lab File: VN064441.D
 Acq: 4 Nov 2020 17:13

Tgt Ion: 83 Resp: 5143
 Ion Ratio Lower Upper
 83 100
 85 51.3 52.5 78.7#

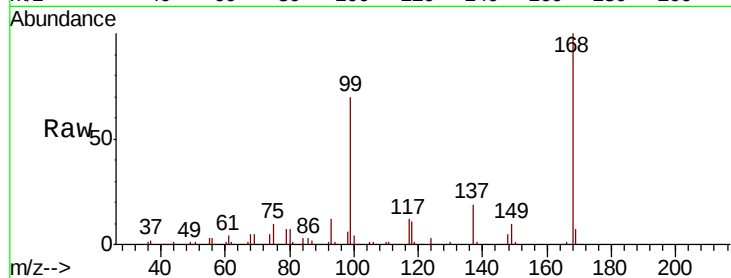




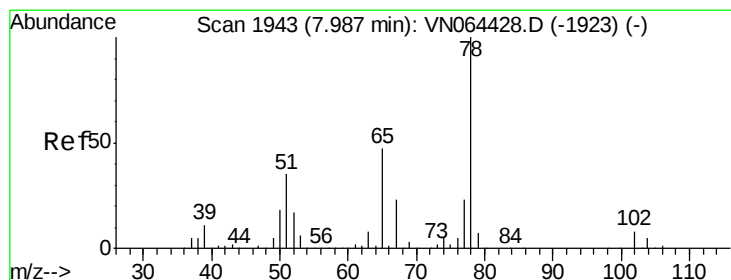
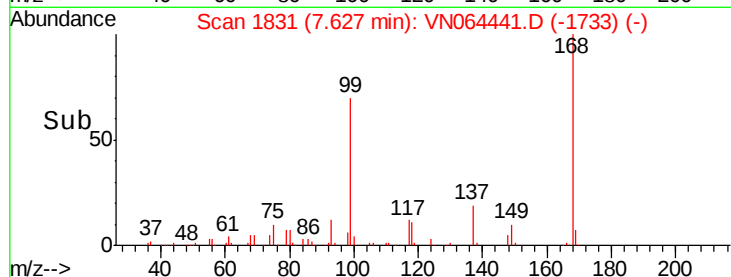
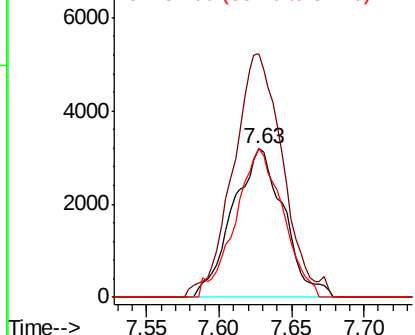
#31
Cyclohexane
Concen: 1.462 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.02 min
Lab File: VN064441.D
Acq: 4 Nov 2020 17:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 7821
Ion Ratio Lower Upper
56 100
69 163.9 25.6 38.4#
84 100.0 63.0 94.6#

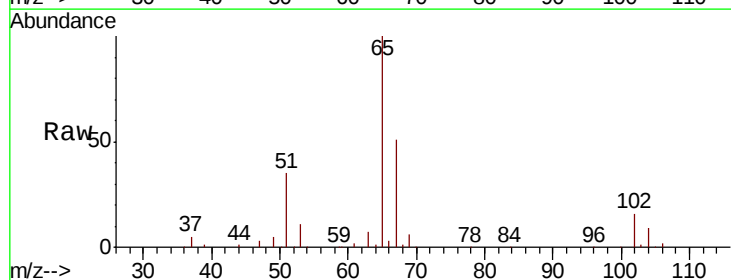


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

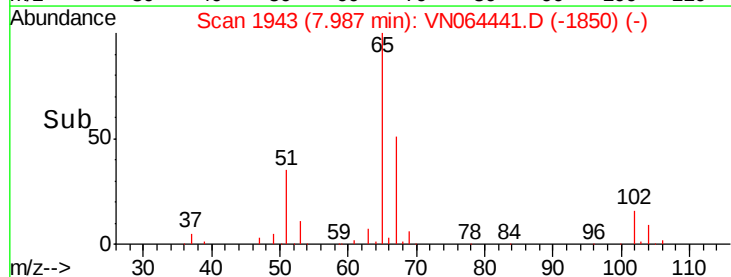
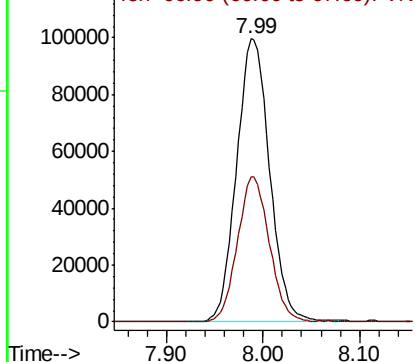


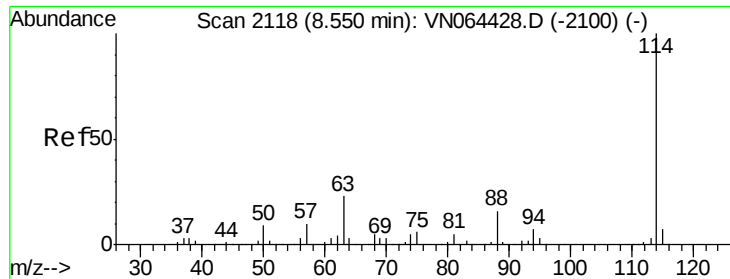
#33
1,2-Dichloroethane-d4
Concen: 53.849 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN064441.D
Acq: 4 Nov 2020 17:13

Tgt Ion: 65 Resp: 237021
Ion Ratio Lower Upper
65 100
67 49.4 0.0 101.6



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

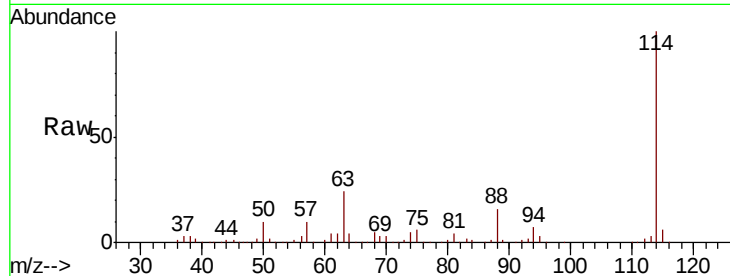




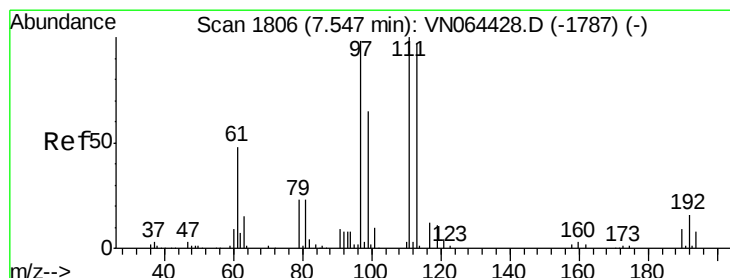
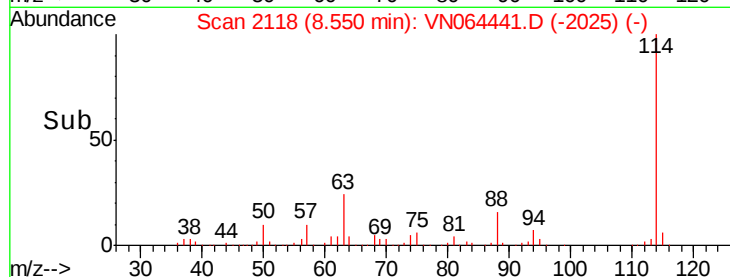
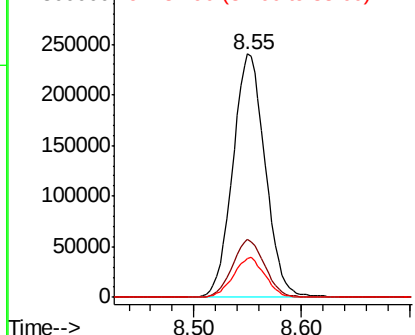
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN064441.D
Acq: 4 Nov 2020 17:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 503019
Ion Ratio Lower Upper
114 100
63 23.7 0.0 45.6
88 16.2 0.0 32.8

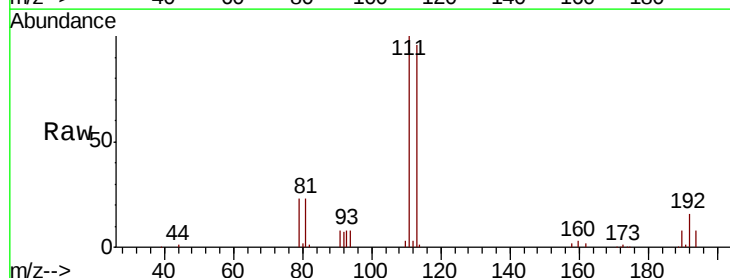


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

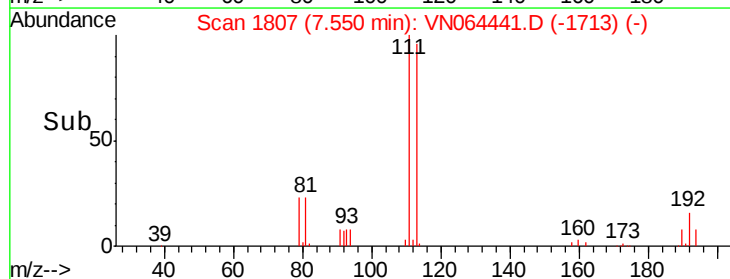
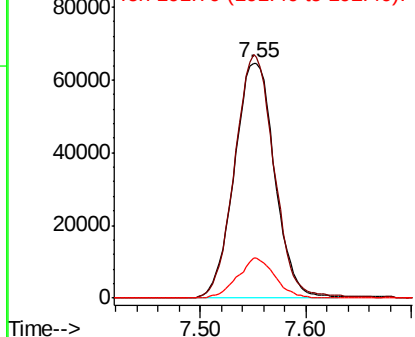


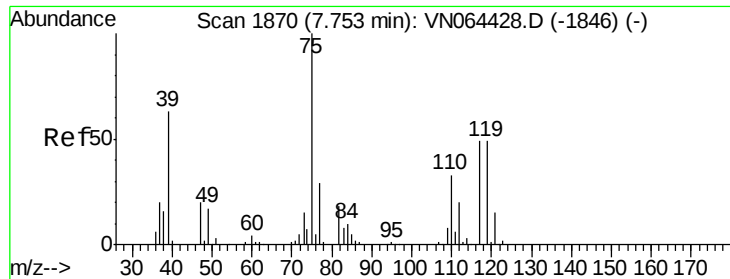
#35
Dibromofluoromethane
Concen: 50.019 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064441.D
Acq: 4 Nov 2020 17:13

Tgt Ion:113 Resp: 171307
Ion Ratio Lower Upper
113 100
111 101.7 81.1 121.7
192 15.9 12.8 19.2



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

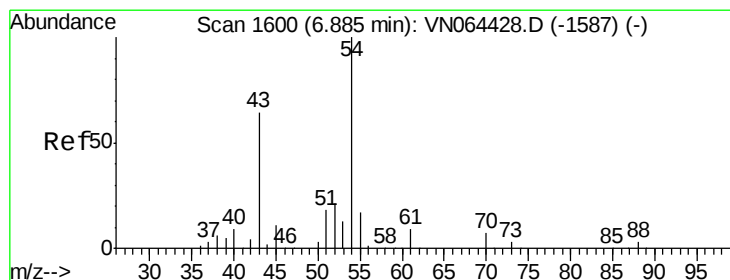
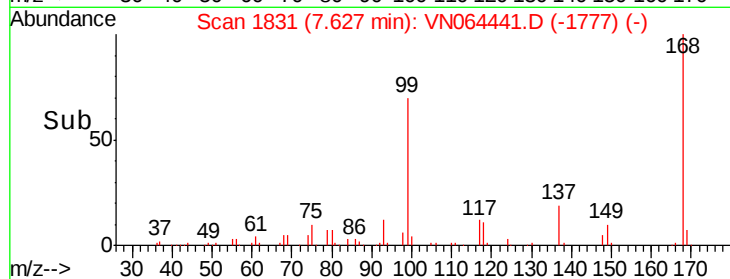
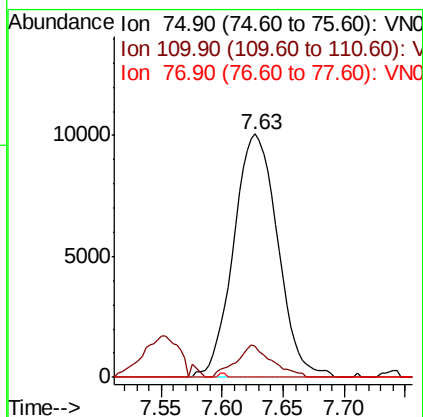
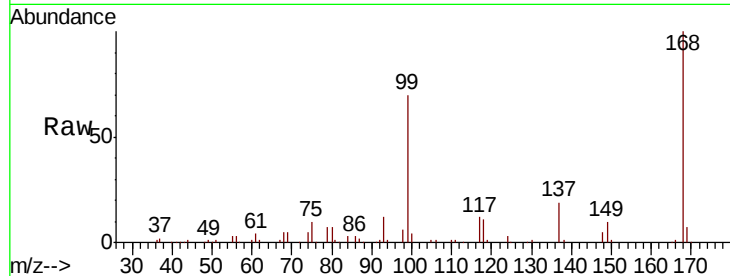




#36
 1,1-Dichloropropene
 Concen: 4.742 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064441.D
 Acq: 4 Nov 2020 17:13

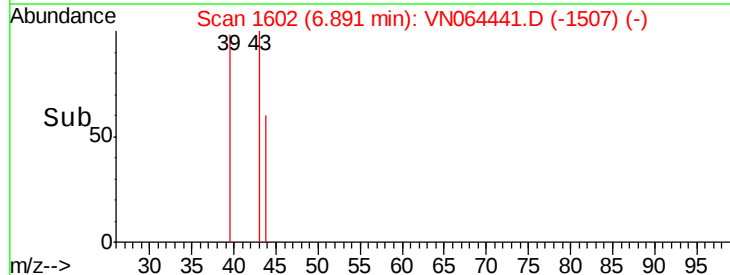
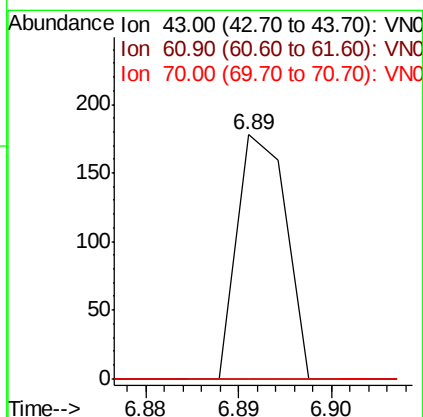
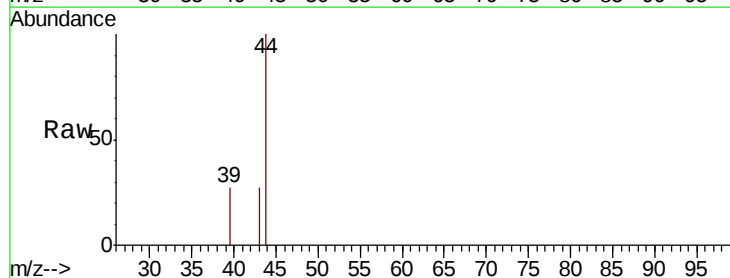
Instrument :
 MSVOA_N
 ClientSampled :

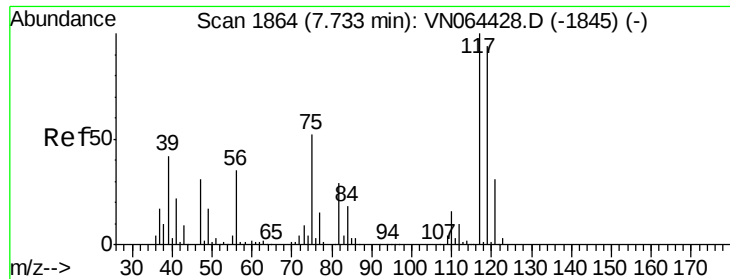
Tot Ion: 75 Resp: 25199
 Ion Ratio Lower Upper
 75 100
 110 10.8 16.0 48.0#
 77 0.0 24.0 36.0#



#37
 Ethyl Acetate
 Concen: 0.774 ug/l
 RT: 6.89 min Scan# 1602
 Delta R.T. 0.01 min
 Lab File: VN064441.D
 Acq: 4 Nov 2020 17:13

Tgt Ion: 43 Resp: 65
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.0 15.0#
 70 0.0 7.1 10.7#





#38

Carbon Tetrachloride

Concen: 5.082 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN064441.D

Acq: 4 Nov 2020 17:13

Instrument :

MSVOA_N

ClientSampleId :

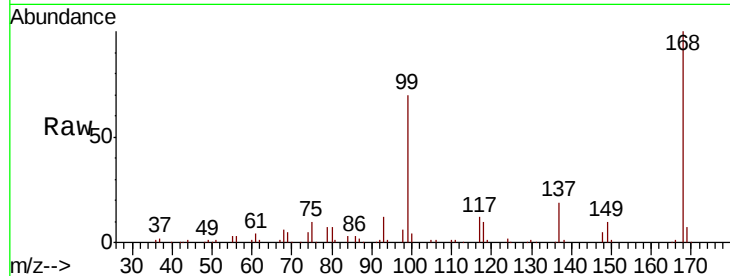
Tot Ion:117 Resp: 28865

Ion Ratio Lower Upper

117 100

119 5.2 75.5 113.3#

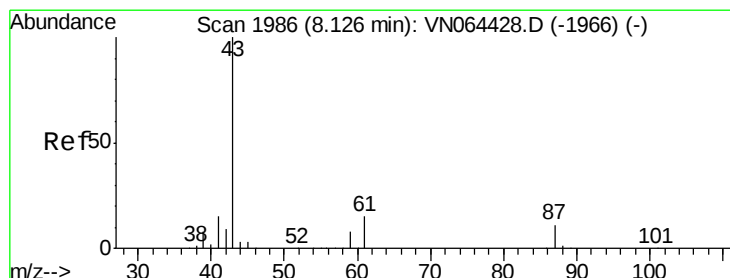
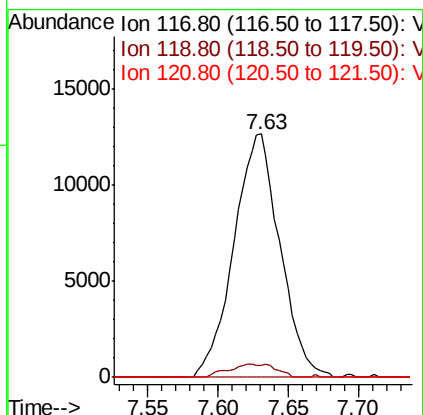
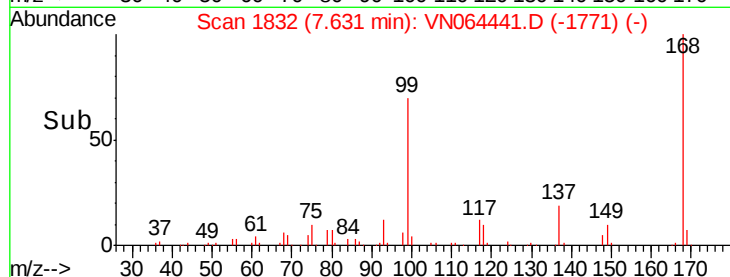
121 0.0 24.4 36.6#



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: 0.433 ug/l

RT: 8.25 min Scan# 2025

Delta R.T. 0.13 min

Lab File: VN064441.D

Acq: 4 Nov 2020 17:13

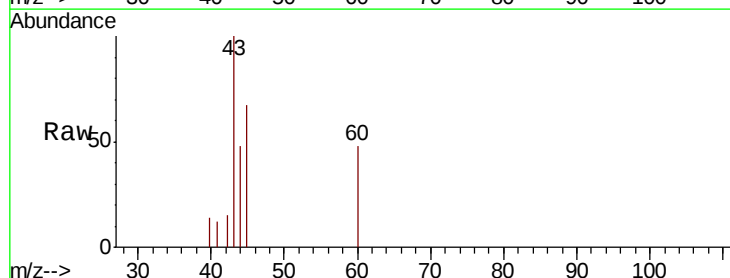
Tgt Ion: 43 Resp: 3727

Ion Ratio Lower Upper

43 100

61 0.0 14.0 21.0#

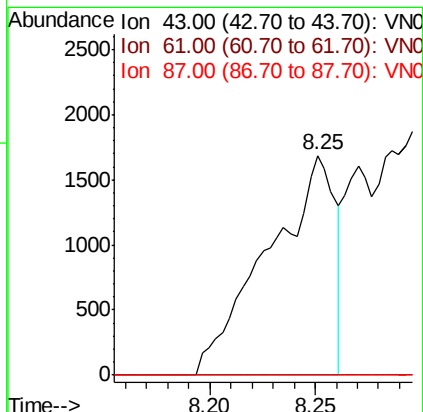
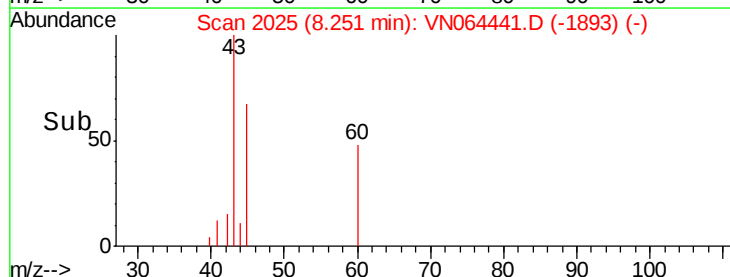
87 0.0 9.1 13.7#

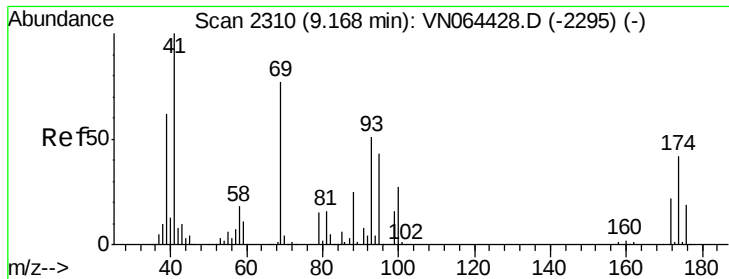


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#49

1,4-Dioxane

Concen: 1.852 ug/l

RT: 9.18 min Scan# 2314

Delta R.T. 0.01 min

Lab File: VN064441.D

Acq: 4 Nov 2020 17:13

Instrument :
MSVOA_N
ClientSampled :

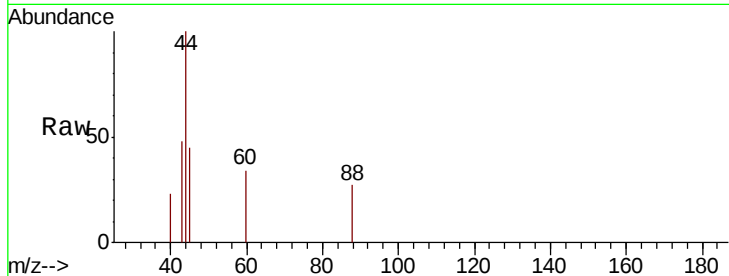
Tot Ion: 88 Resp: 106

Ion Ratio Lower Upper

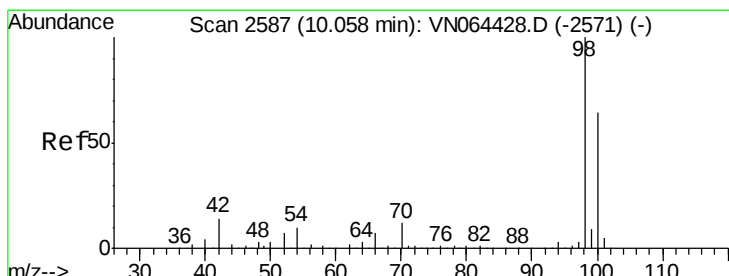
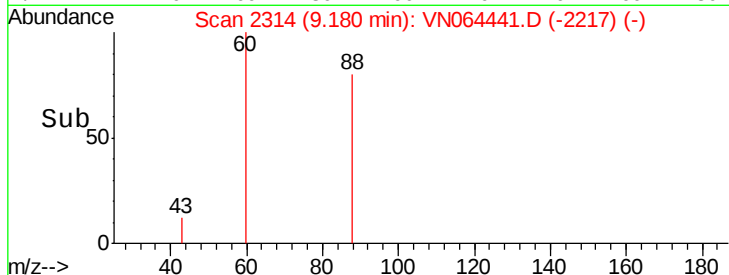
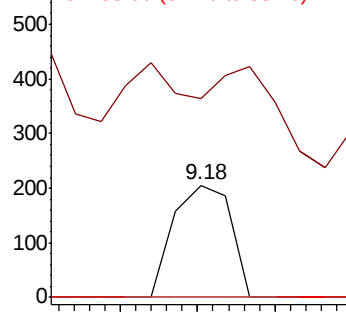
88 100

43 49.1 31.0 46.6#

58 0.0 58.4 87.6#



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: 48.528 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064441.D

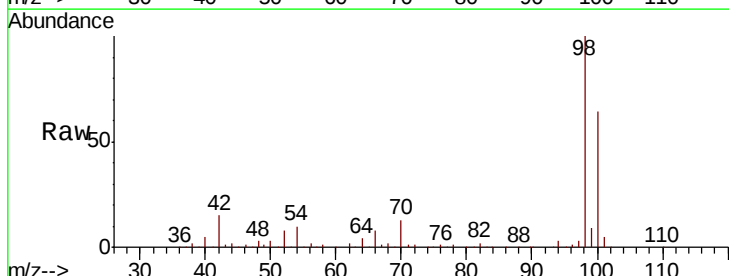
Acq: 4 Nov 2020 17:13

Tgt Ion: 98 Resp: 642368

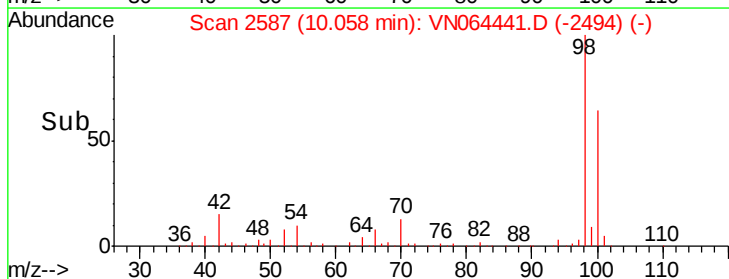
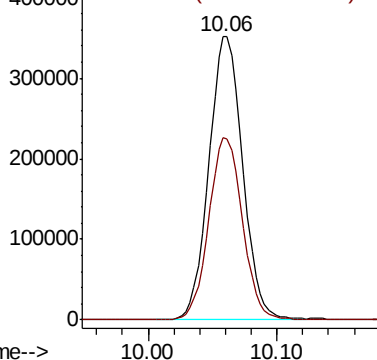
Ion Ratio Lower Upper

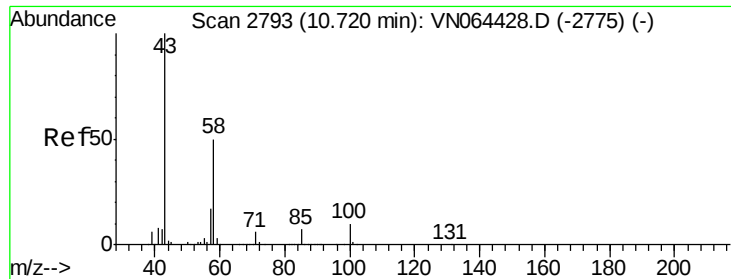
98 100

100 64.2 50.7 76.1



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

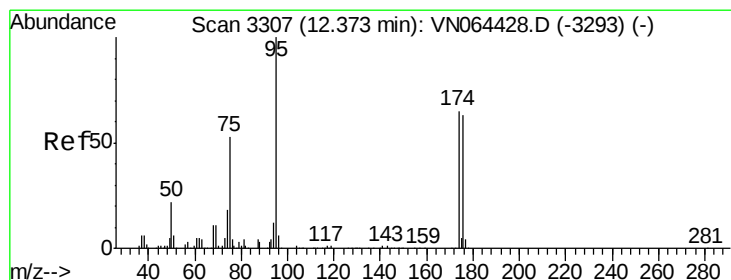
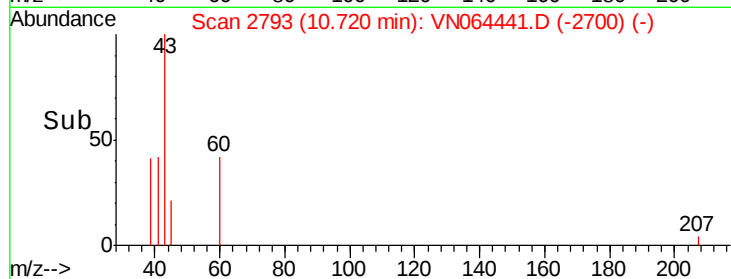
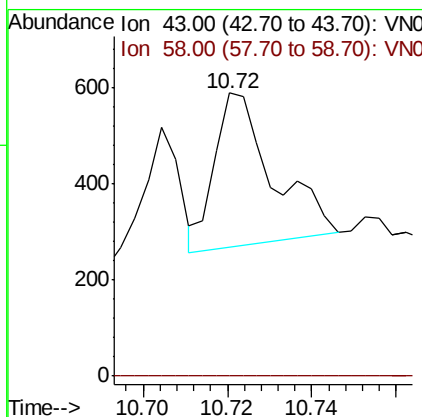
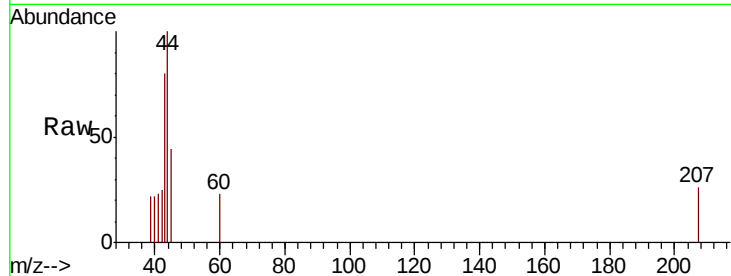




#59
2-Hexanone
Concen: 4.102 ug/l
RT: 10.72 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN064441.D
Acq: 4 Nov 2020 17:13

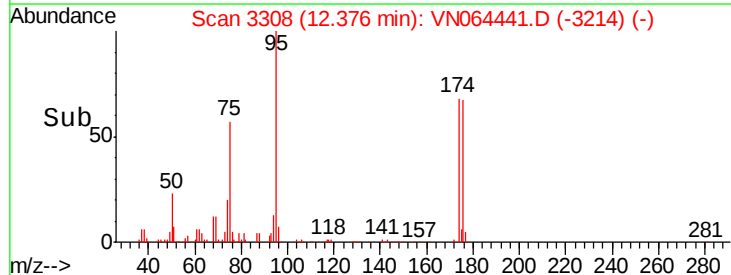
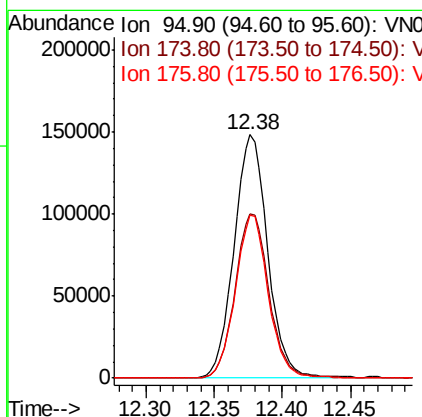
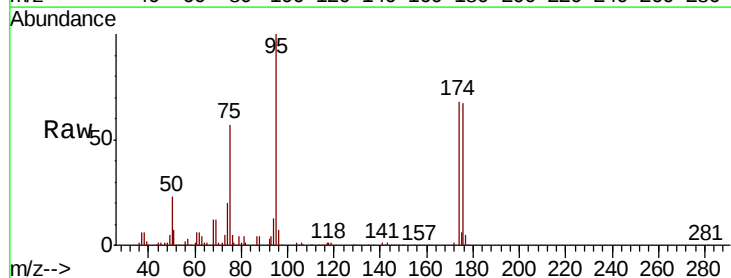
Instrument :
MSVOA_N
ClientSampled :

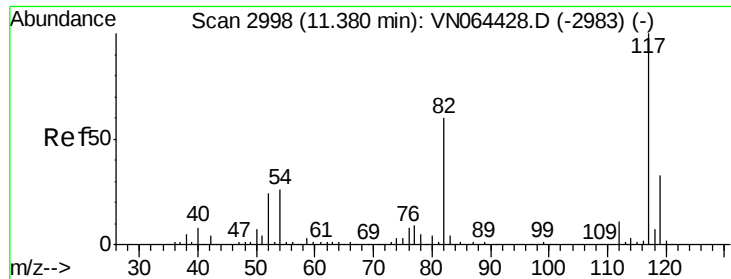
Tot Ion: 43 Resp: 307
Ion Ratio Lower Upper
43 100
58 0.0 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 50.558 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064441.D
Acq: 4 Nov 2020 17:13

Tgt Ion: 95 Resp: 253101
Ion Ratio Lower Upper
95 100
174 68.6 0.0 132.6
176 65.7 0.0 129.2

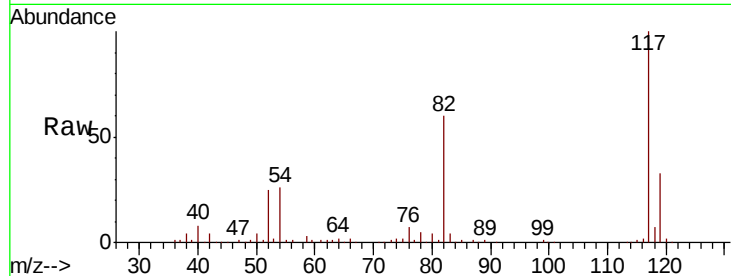




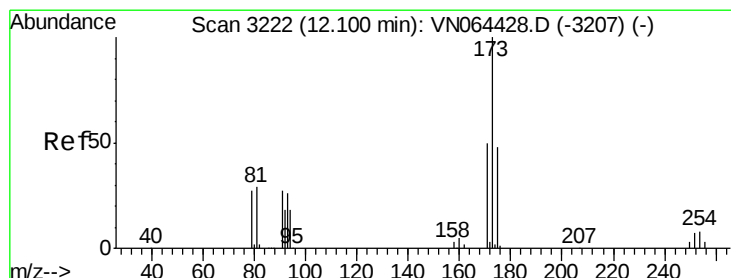
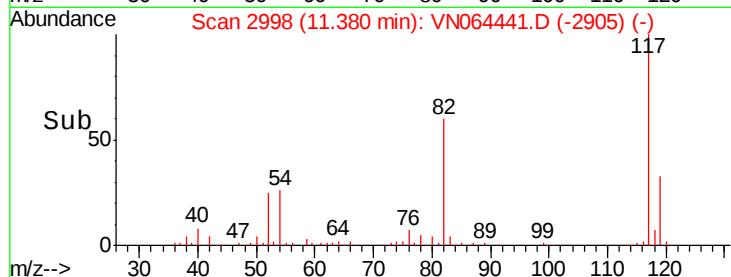
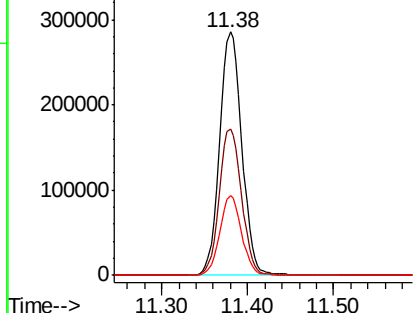
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064441.D
Acq: 4 Nov 2020 17:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 514446
Ion Ratio Lower Upper
117 100
82 60.3 48.1 72.1
119 32.8 26.2 39.4

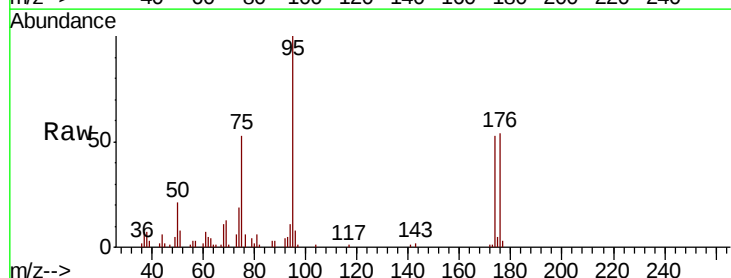


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

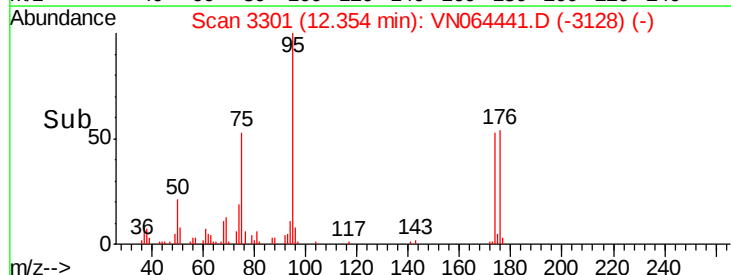
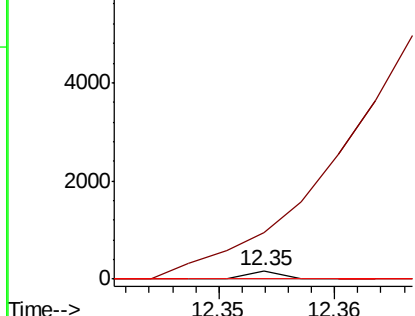


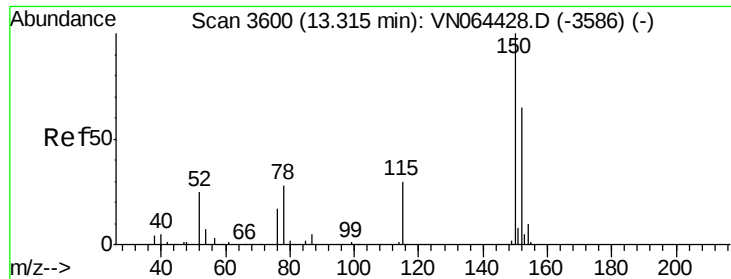
#71
Bromoform
Concen: 1.286 ug/l
RT: 12.35 min Scan# 3301
Delta R.T. 0.25 min
Lab File: VN064441.D
Acq: 4 Nov 2020 17:13

Tgt Ion:173 Resp: 34
Ion Ratio Lower Upper
173 100
175 0.0 23.7 71.1#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VN064441.D

Acq: 4 Nov 2020 17:13

Instrument :

MSVOA_N

ClientSampleId :

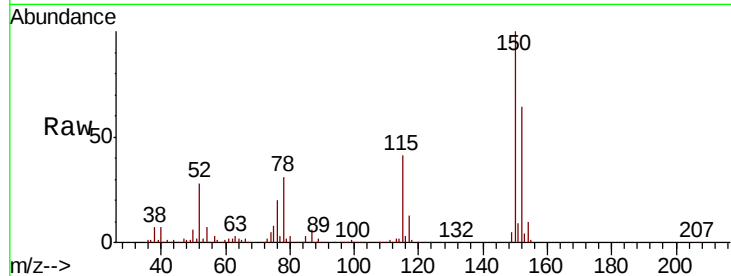
Tot Ion:152 Resp: 196116

Ion Ratio Lower Upper

152 100

115 65.6 32.0 96.0

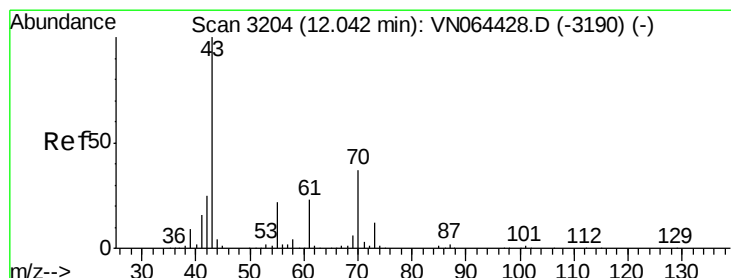
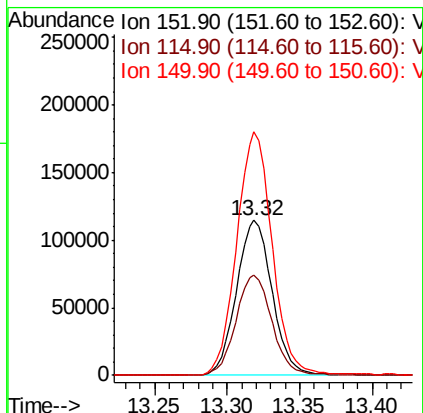
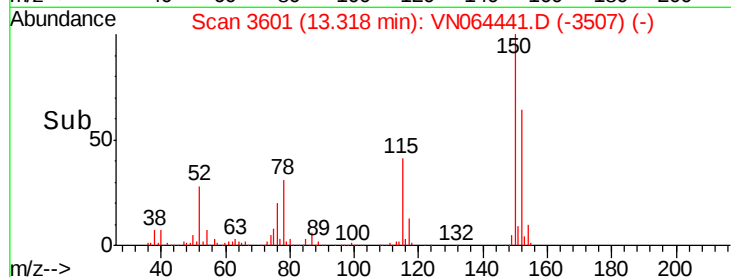
150 155.8 0.0 353.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 1.246 ug/l

RT: 12.05 min Scan# 3206

Delta R.T. 0.01 min

Lab File: VN064441.D

Acq: 4 Nov 2020 17:13

Tgt Ion: 43 Resp: 246

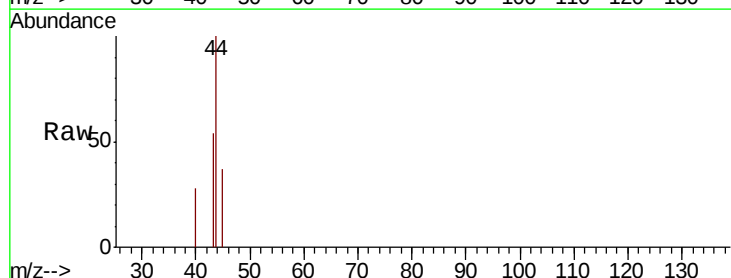
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 0.0 18.4 27.6#

61 0.0 17.8 26.6#

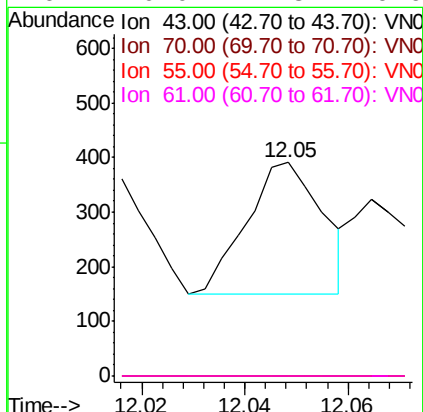
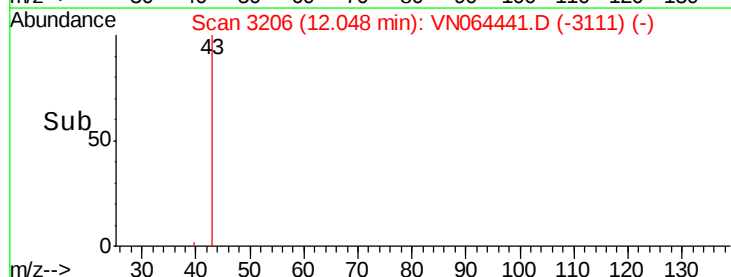


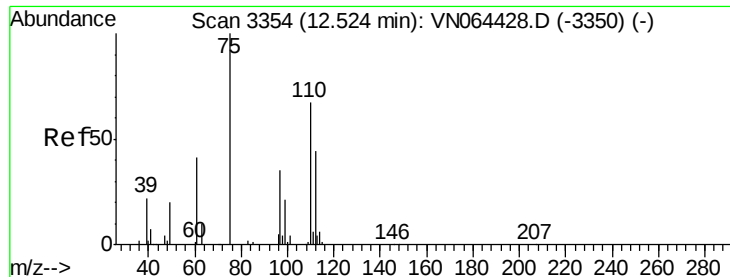
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

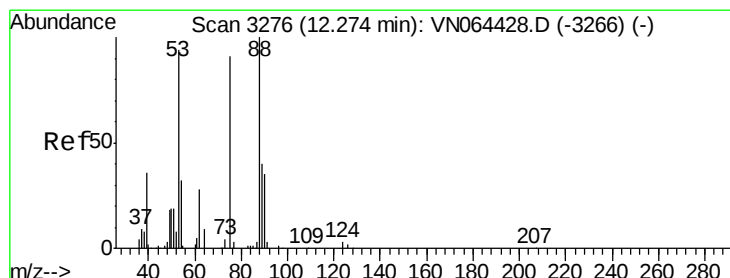
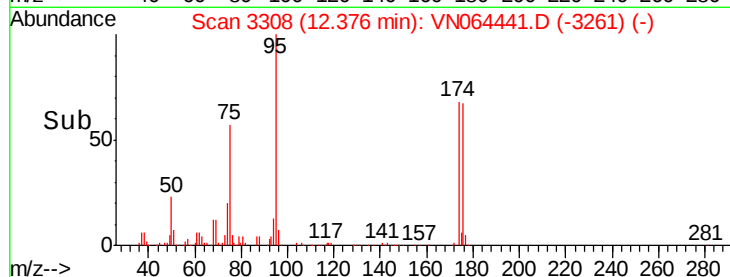
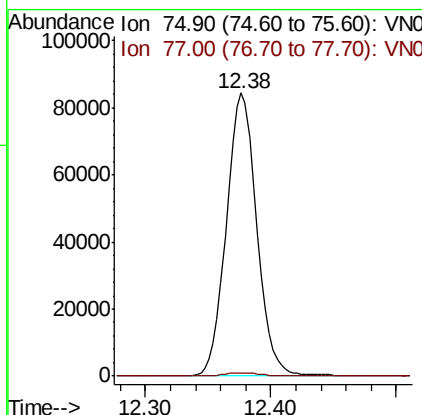
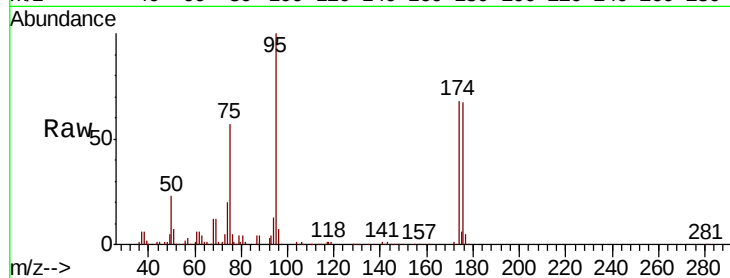




#76
 1,2,3-Trichloropropane
 Concen: 29.910 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN064441.D
 Acq: 4 Nov 2020 17:13

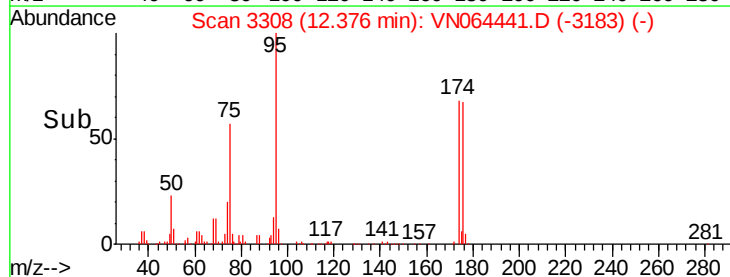
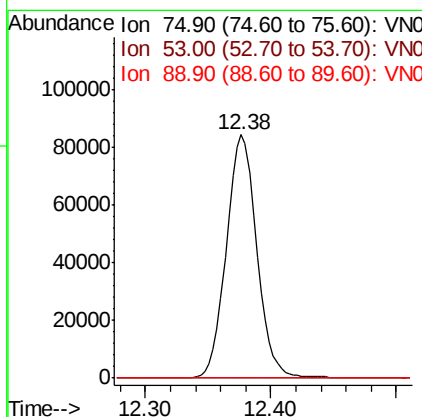
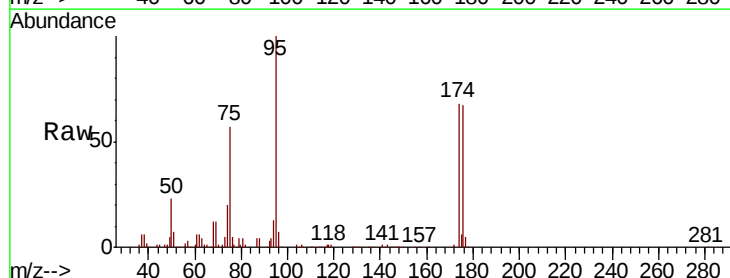
Instrument :
 MSVOA_N
 ClientSampleId :

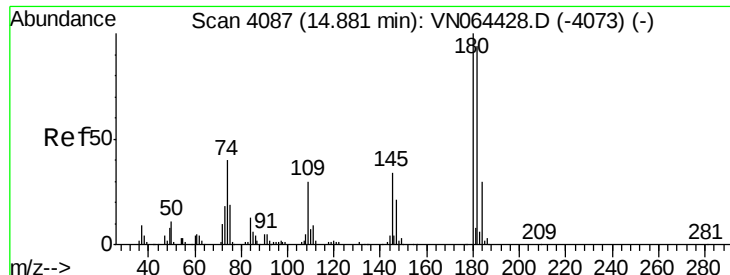
Tot Ion: 75 Resp: 142125
 Ion Ratio Lower Upper
 75 100
 77 0.5 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.513 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064441.D
 Acq: 4 Nov 2020 17:13

Tgt Ion: 75 Resp: 142125
 Ion Ratio Lower Upper
 75 100
 53 0.0 84.0 126.0#
 89 0.0 36.3 54.5#

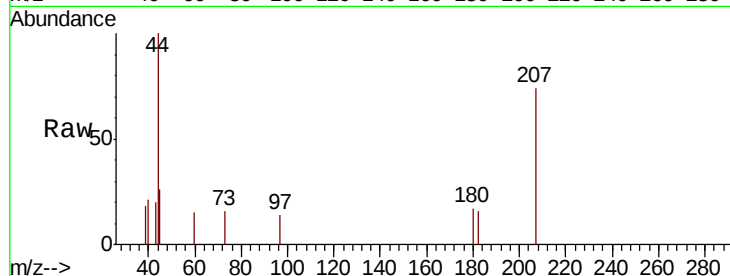




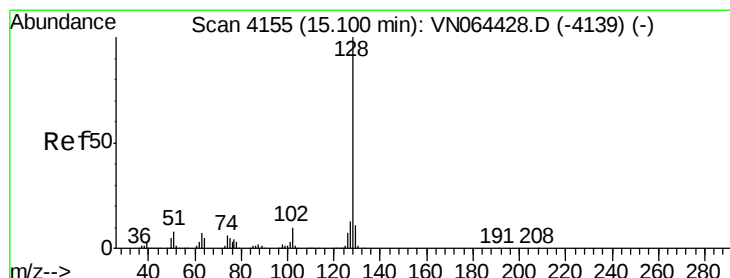
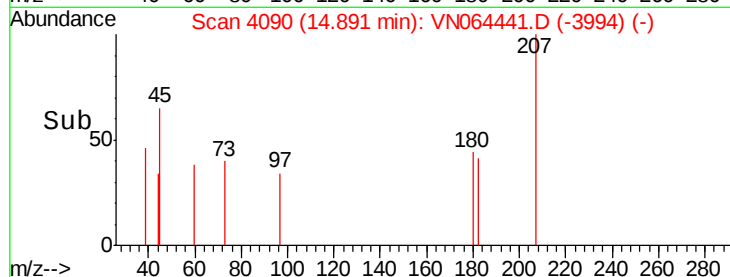
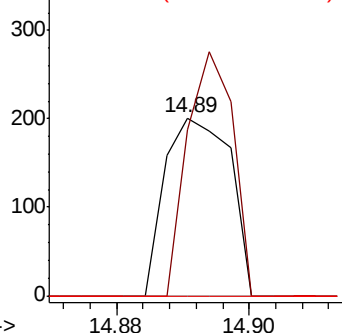
#93
 1,2,4-Trichlorobenzene
 Concen: 2.705 ug/l
 RT: 14.89 min Scan# 4090
 Delta R.T. 0.01 min
 Lab File: VN064441.D
 Acq: 4 Nov 2020 17:13

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 138
 Ion Ratio Lower Upper
 180 100
 182 95.7 47.3 142.0
 145 0.0 16.7 50.1#

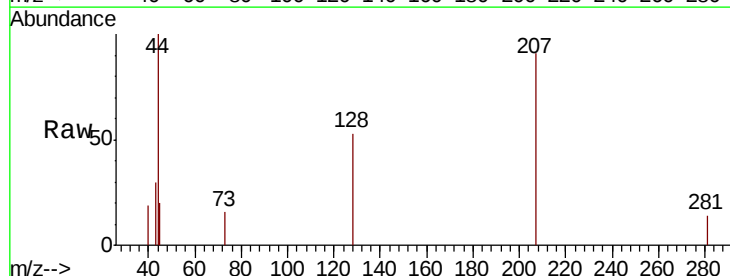


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

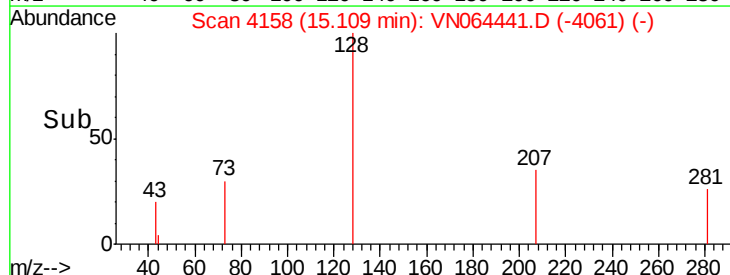
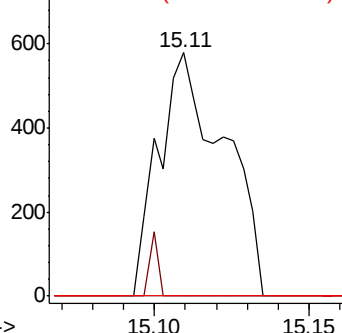


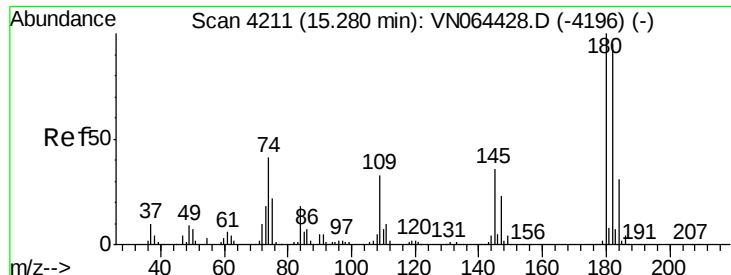
#95
 Naphthalene
 Concen: 3.696 ug/l
 RT: 15.11 min Scan# 4158
 Delta R.T. 0.01 min
 Lab File: VN064441.D
 Acq: 4 Nov 2020 17:13

Tgt Ion:128 Resp: 853
 Ion Ratio Lower Upper
 128 100
 127 3.5 10.5 15.7#
 129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

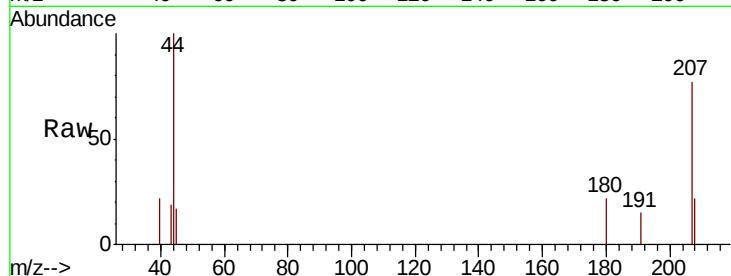




#96
 1,2,3-Trichlorobenzene
 Concen: 2.813 ug/l
 RT: 15.30 min Scan# 4217
 Delta R.T. 0.02 min
 Lab File: VN064441.D
 Acq: 4 Nov 2020 17:13

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.7	143.1#
145	0.0	18.3	54.8#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

