

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100820\
 Data File : VN064023.D
 Acq On : 9 Oct 2020 6:04
 Operator : JC/MD
 Sample : L4292-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 09 07:07:35 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	7.63	168	240944	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	458310	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	478820	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	177915	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	203775	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	
35) Dibromofluoromethane	7.55	113	152136	47.84	ug/l	0.00
Spiked Amount			Recovery	=	95.68%	
50) Toluene-d8	10.06	98	587327	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	
62) 4-Bromofluorobenzene	12.38	95	223469	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	

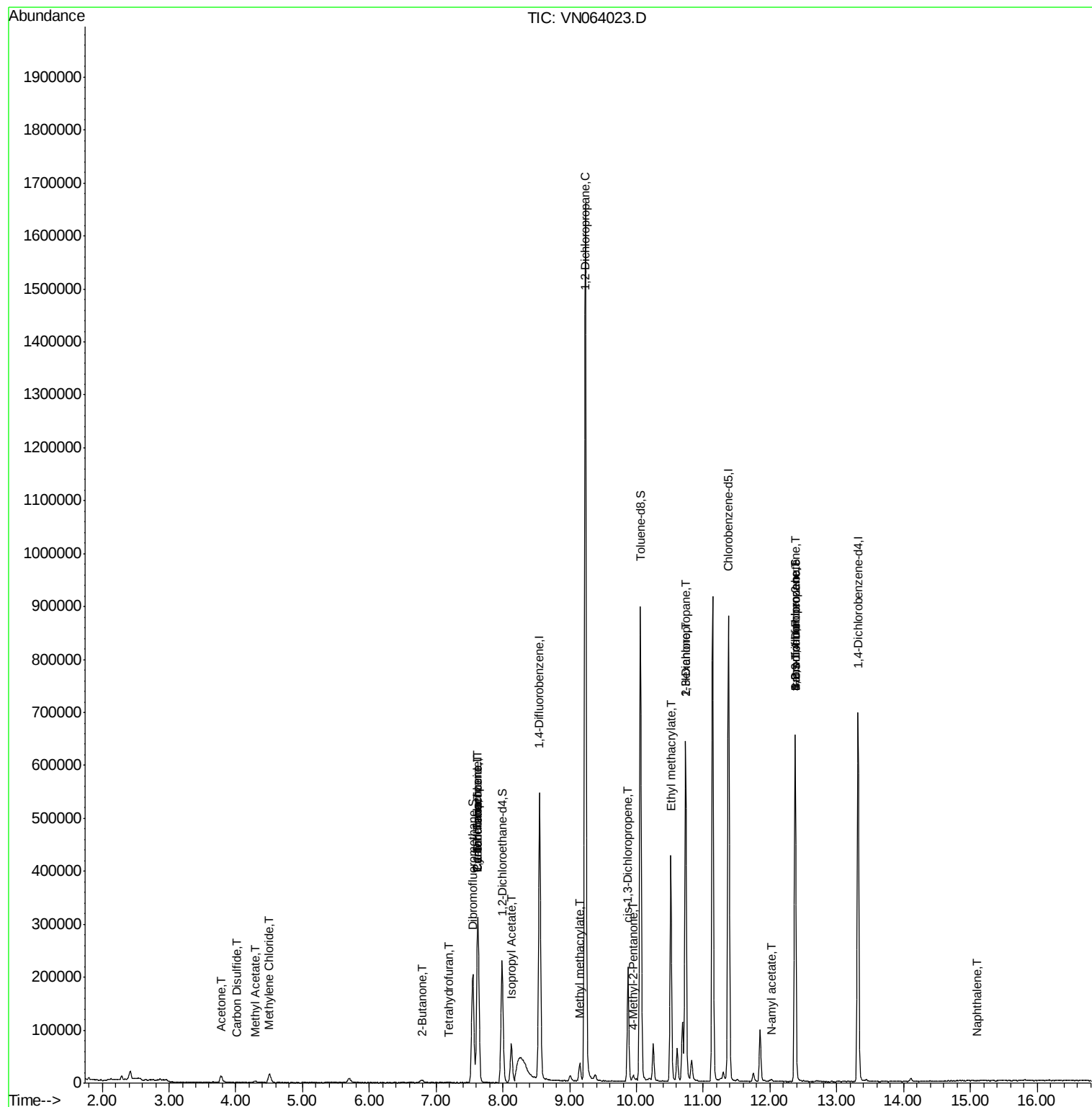
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	22444	18.316	ug/l	96
17) Carbon Disulfide	4.01	76	319	0.749	ug/l #	76
18) Methyl Acetate	4.29	43	5173	1.626	ug/l #	85
20) Methylene Chloride	4.50	84	6240	2.317	ug/l #	92
25) 2-Butanone	6.80	43	3926	2.260	ug/l #	51
29) Tetrahydrofuran	7.18	42	699	0.600	ug/l #	44
31) Cyclohexane	7.62	56	6321	1.368	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	20765	4.472	ug/l #	51
38) Carbon Tetrachloride	7.63	117	26302	5.052	ug/l #	15
43) Isopropyl Acetate	8.13	43	89109	11.711	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1997	0.558	ug/l #	44
48) Methyl methacrylate	9.14	41	5623	1.496	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	6632	1.485	ug/l #	79
54) cis-1,3-Dichloropropene	9.87	75	34126	5.978	ug/l #	63
56) Ethyl methacrylate	10.52	69	2515	0.539	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	6142	1.104	ug/l #	43
59) 2-Hexanone	10.74	43	99929	30.125	ug/l #	56
71) Bromoform	12.37	173	1863	0.647	ug/l #	1
74) N-amyl acetate	12.01	43	2921	2.679	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	122269	31.176	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	122269	89.791	ug/l #	6
95) Naphthalene	15.11	128	150	1.939	ug/l #	69

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

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QLast Update : Thu Oct 01 01:46:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064023.D

Acq: 9 Oct 2020 6:04

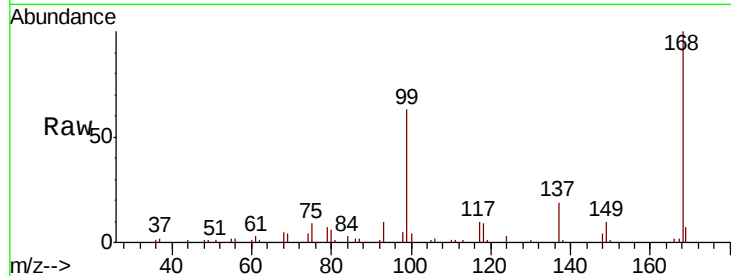
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 240944

Ion Ratio Lower Upper

168 100

99 63.2 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

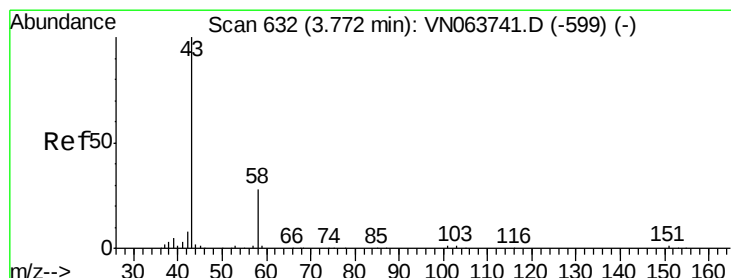
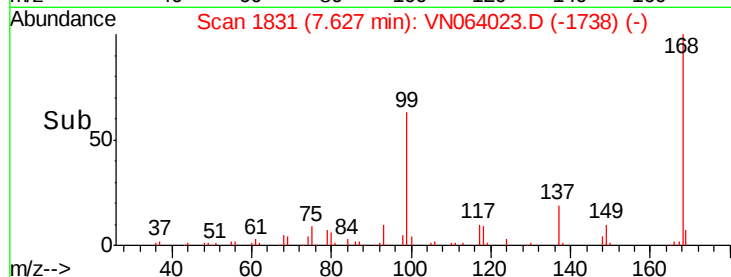
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 18.316 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN064023.D

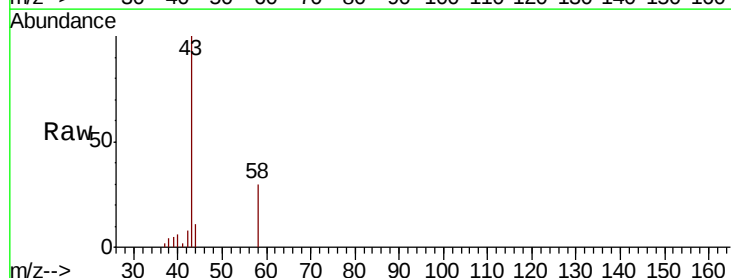
Acq: 9 Oct 2020 6:04

Tgt Ion: 43 Resp: 22444

Ion Ratio Lower Upper

43 100

58 30.1 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.78

8000

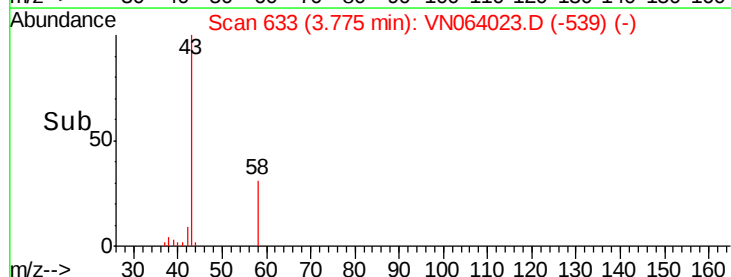
6000

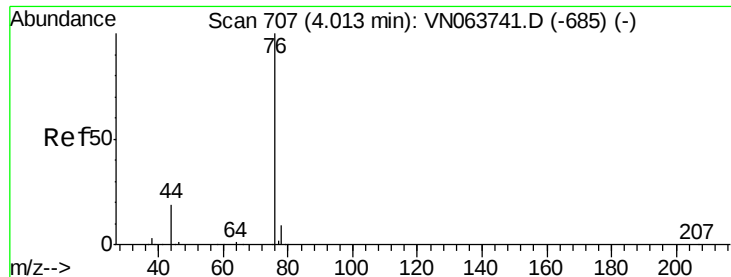
4000

2000

0

Time--> 3.70 3.75 3.80 3.85 3.90





#17

Carbon Disulfide

Concen: 0.749 ug/l

RT: 4.01 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN064023.D

Acq: 9 Oct 2020 6:04

Instrument :

MSVOA_N

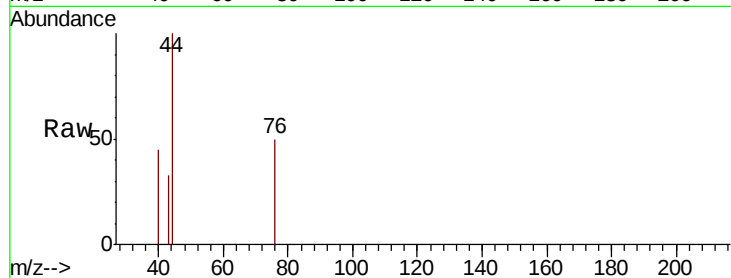
ClientSampled :

Tot Ion: 76 Resp: 319

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

4.01

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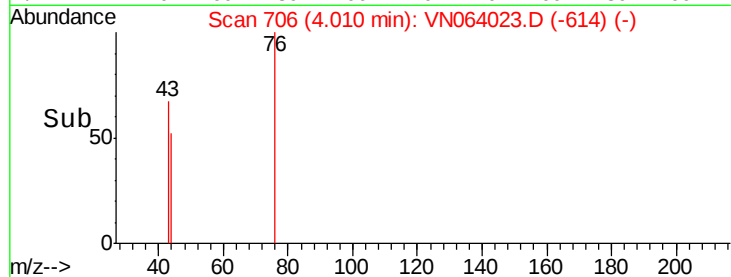
4.01

4.01

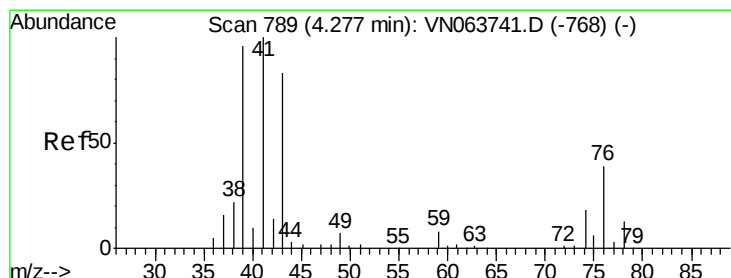
4.01

4.01

4.01



Time-->



#18

Methyl Acetate

Concen: 1.626 ug/l

RT: 4.29 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN064023.D

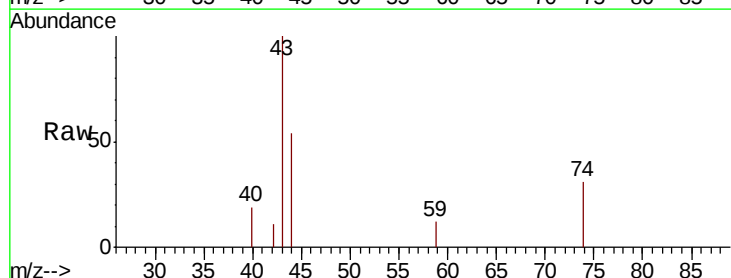
Acq: 9 Oct 2020 6:04

Tgt Ion: 43 Resp: 5173

Ion Ratio Lower Upper

43 100

74 14.6 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

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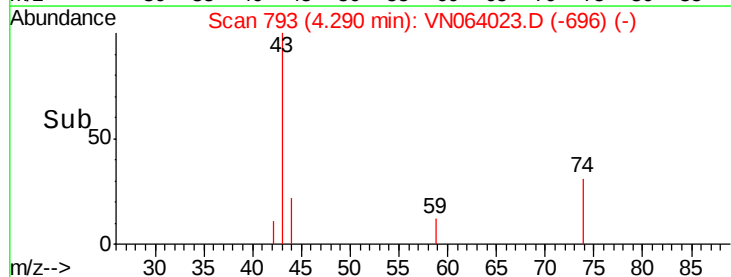
4.29

4.29

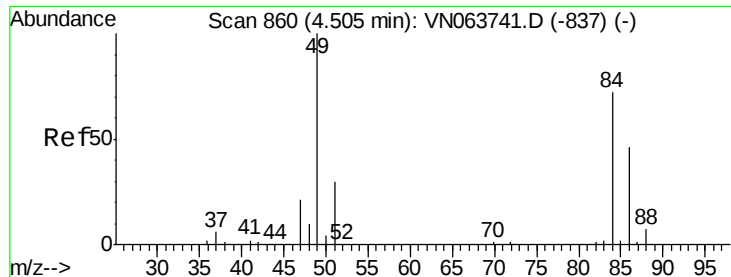
4.29

4.29

4.29



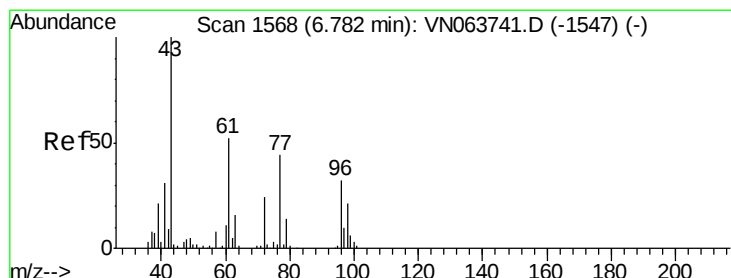
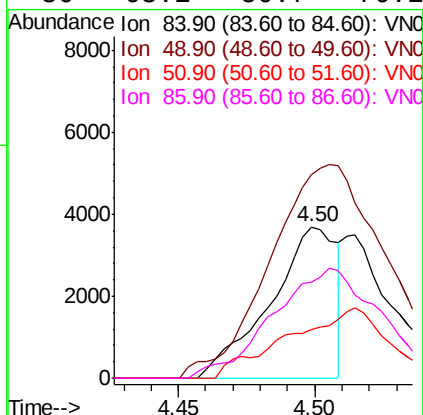
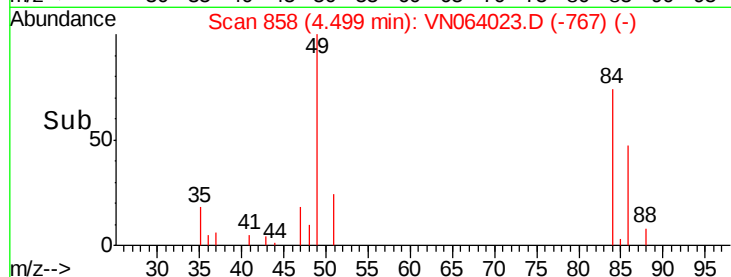
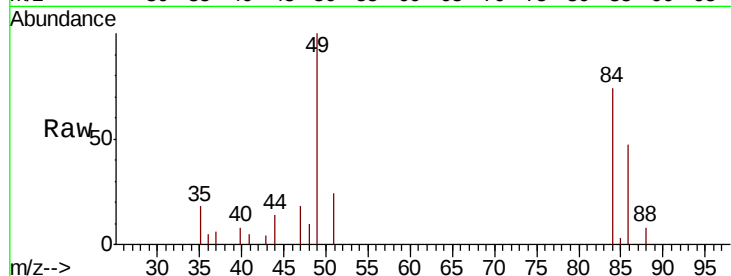
Time-->



#20
Methvlene Chloride
Concen: 2.317 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.01 min
Lab File: VN064023.D
Acq: 9 Oct 2020 6:04

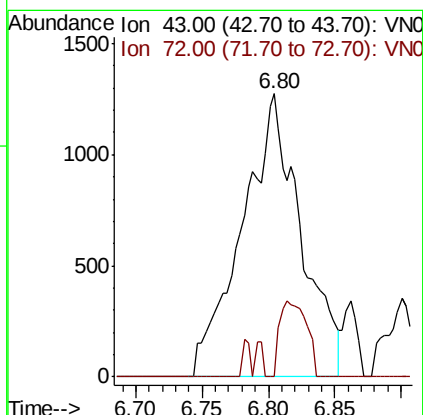
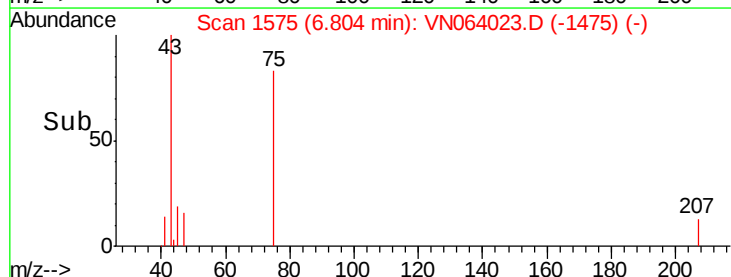
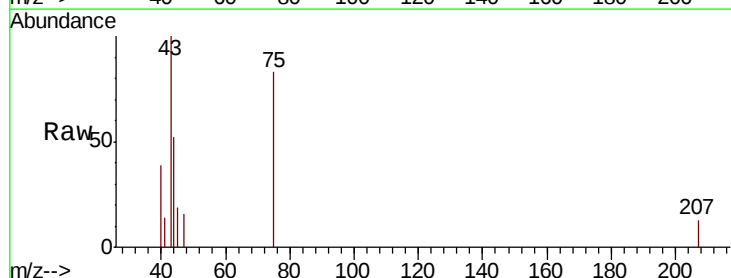
Instrument :
MSVOA_N
ClientSampleId :

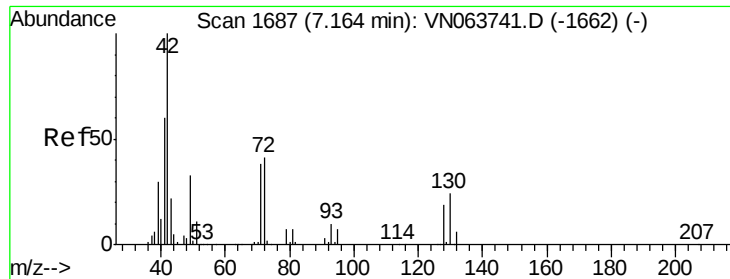
Tot Ion: 84 Resp: 6240
Ion Ratio Lower Upper
84 100
49 127.3 110.4 165.6
51 32.5 33.3 49.9#
86 63.1 50.7 76.1



#25
2-Butanone
Concen: 2.260 ug/l
RT: 6.80 min Scan# 1575
Delta R.T. 0.02 min
Lab File: VN064023.D
Acq: 9 Oct 2020 6:04

Tgt Ion: 43 Resp: 3926
Ion Ratio Lower Upper
43 100
72 0.0 19.3 28.9#

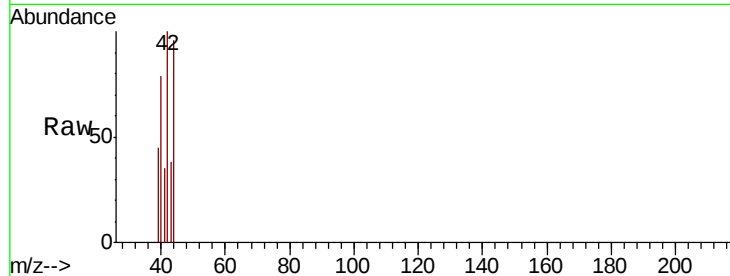




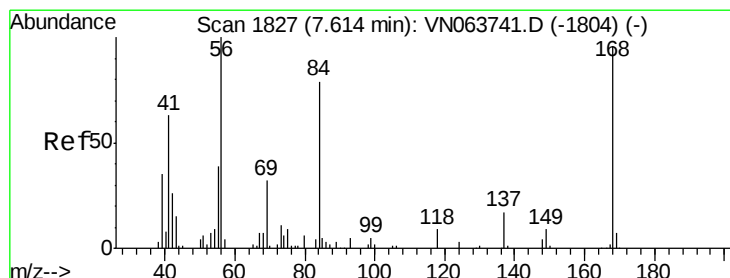
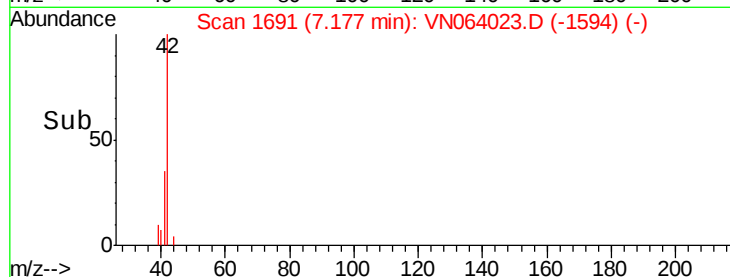
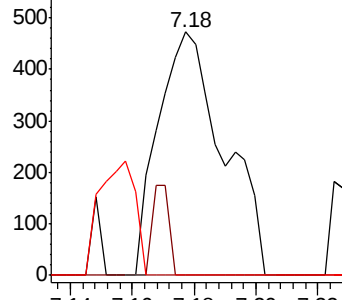
#29
Tetrahydrofuran
Concen: 0.600 ug/l
RT: 7.18 min Scan# 1691
Delta R.T. 0.01 min
Lab File: VN064023.D
Acq: 9 Oct 2020 6:04

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 42 Resp: 699
Ion Ratio Lower Upper
42 100
72 9.6 32.8 49.2#
71 0.0 30.6 45.8#

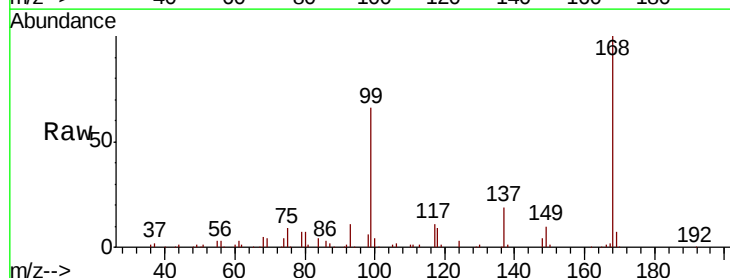


Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO

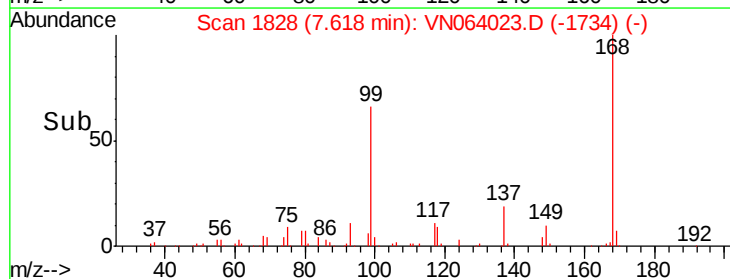
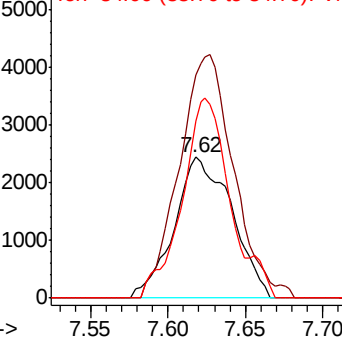


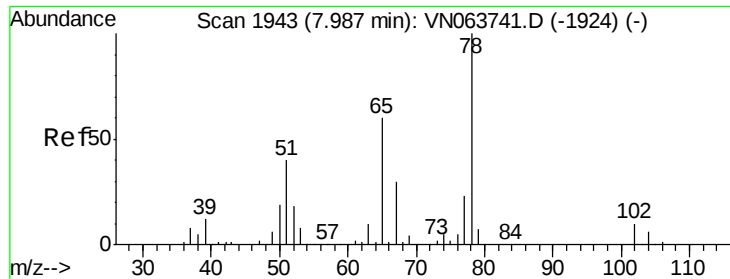
#31
Cyclohexane
Concen: 1.368 ug/l
RT: 7.62 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN064023.D
Acq: 9 Oct 2020 6:04

Tgt Ion: 56 Resp: 6321
Ion Ratio Lower Upper
56 100
69 158.3 25.4 38.2#
84 126.1 63.3 94.9#



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

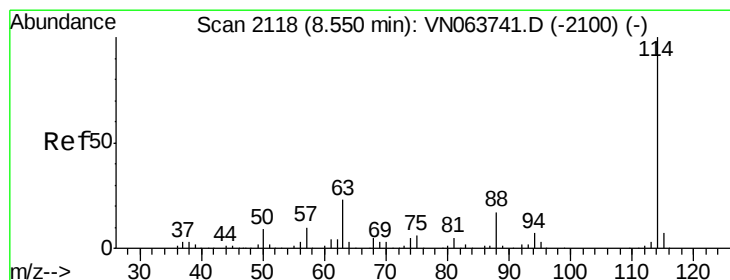
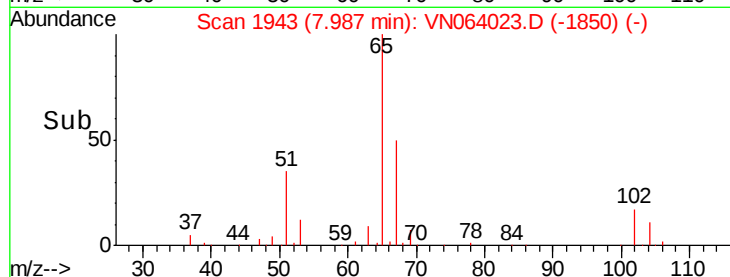
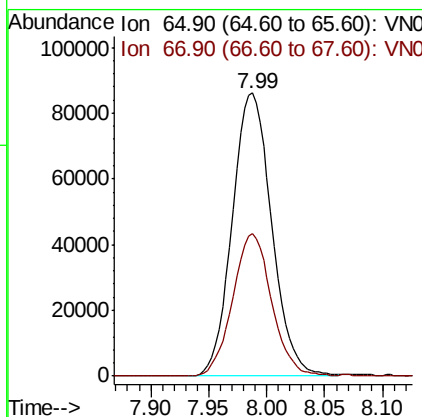
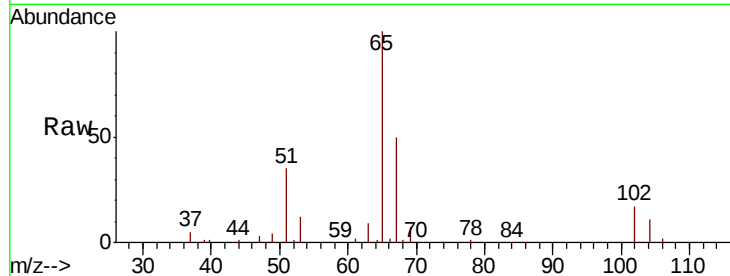




#33
 1,2-Dichloroethane-d4
 Concen: 51.193 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064023.D
 Acq: 9 Oct 2020 6:04

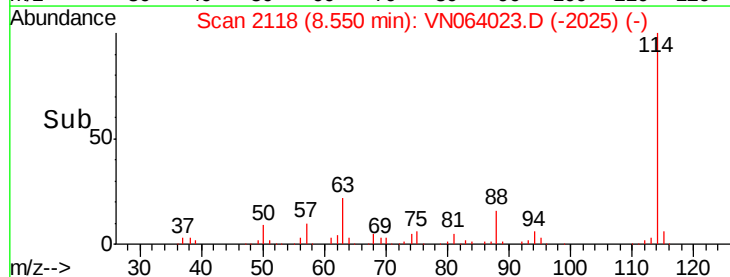
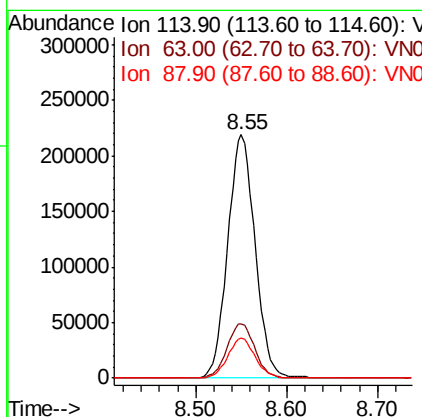
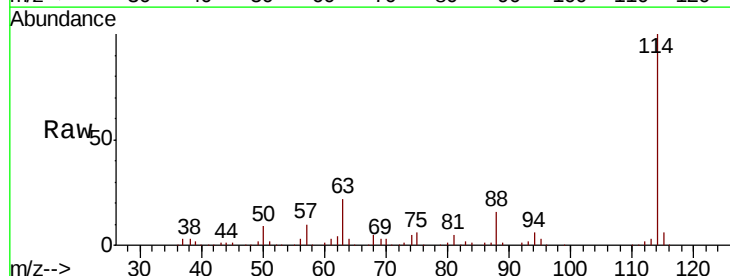
Instrument :
 MSVOA_N
 ClientSampleId :

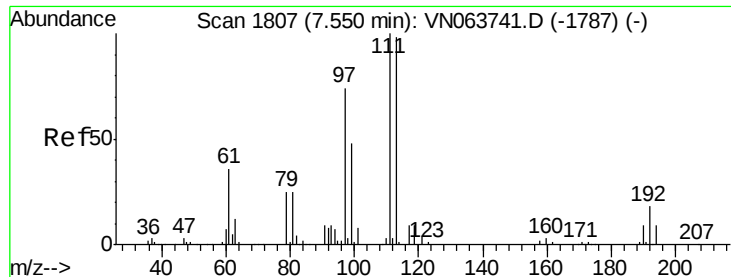
Tot Ion: 65 Resp: 203775
 Ion Ratio Lower Upper
 65 100
 67 49.7 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064023.D
 Acq: 9 Oct 2020 6:04

Tgt Ion: 114 Resp: 458310
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 45.0
 88 16.4 0.0 34.0

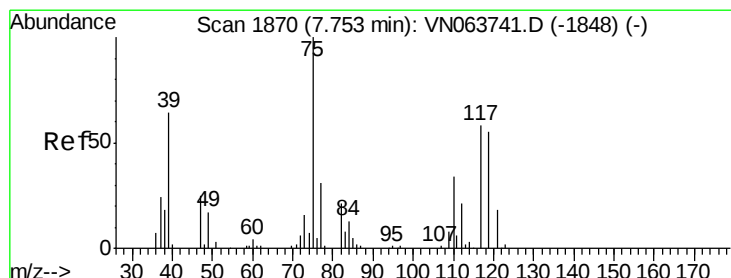
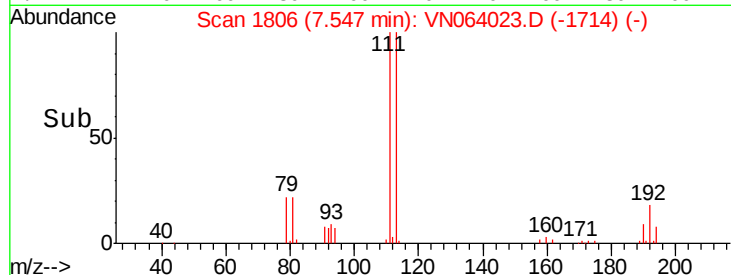
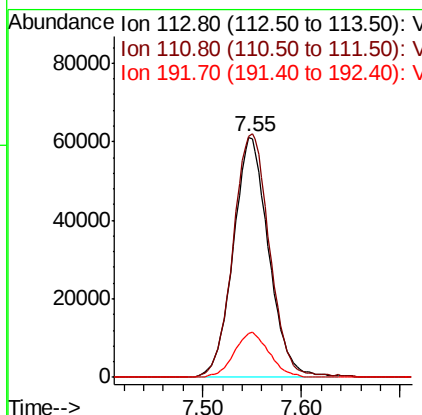
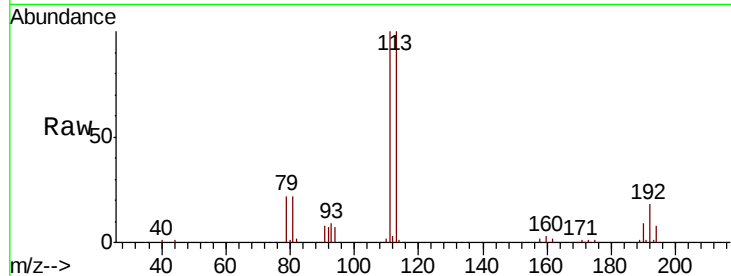




#35
 Dibromofluoromethane
 Concen: 47.840 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN064023.D
 Acq: 9 Oct 2020 6:04

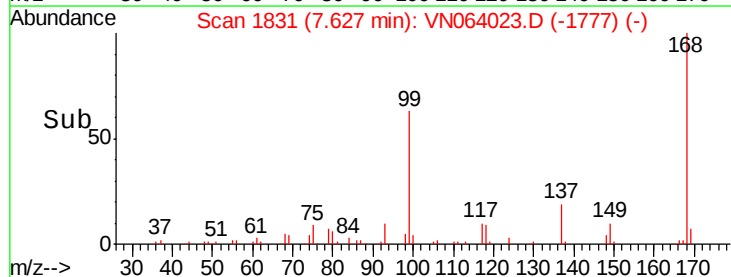
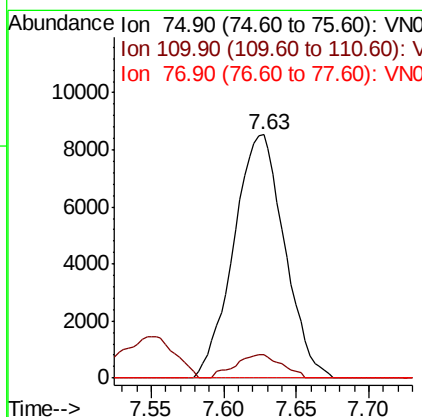
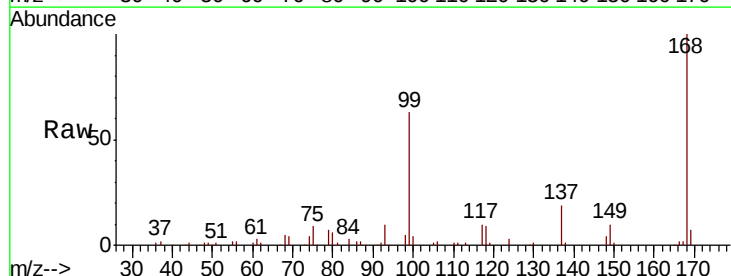
Instrument :
 MSVOA_N
 ClientSampleId :

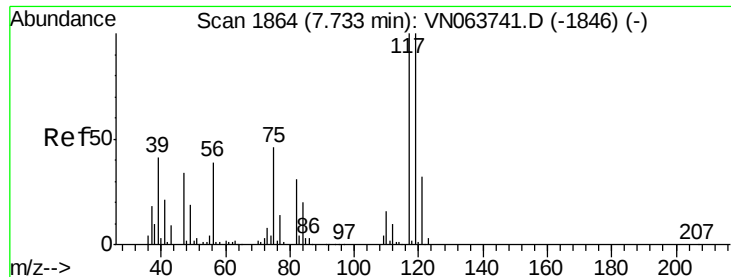
Tot Ion:113 Resp: 152136
 Ion Ratio Lower Upper
 113 100
 111 104.8 81.8 122.8
 192 18.8 14.2 21.2



#36
 1,1-Dichloropropene
 Concen: 4.472 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064023.D
 Acq: 9 Oct 2020 6:04

Tgt Ion: 75 Resp: 20765
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.9 50.6#
 77 0.0 24.5 36.7#

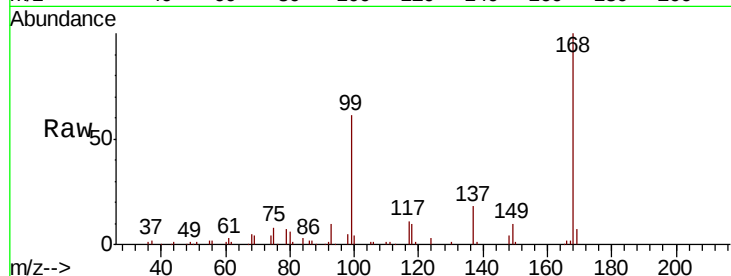




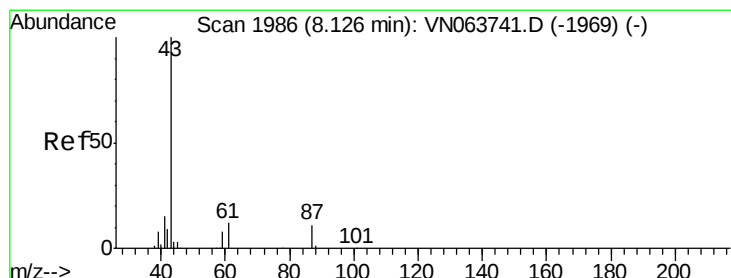
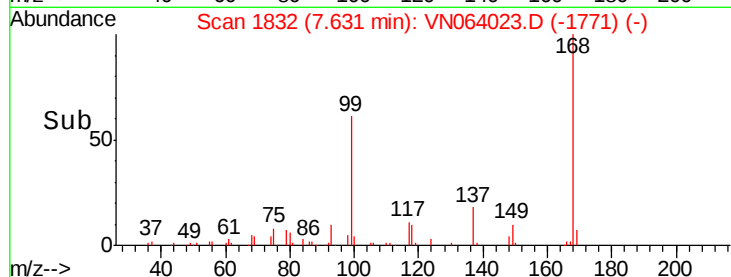
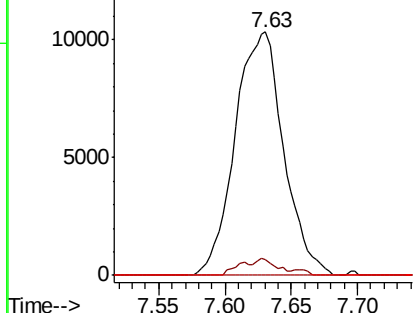
#38
Carbon Tetrachloride
Concen: 5.052 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. -0.10 min
Lab File: VN064023.D
Acq: 9 Oct 2020 6:04

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 26302
Ion Ratio Lower Upper
117 100
119 6.7 80.1 120.1#
121 0.0 25.7 38.5#

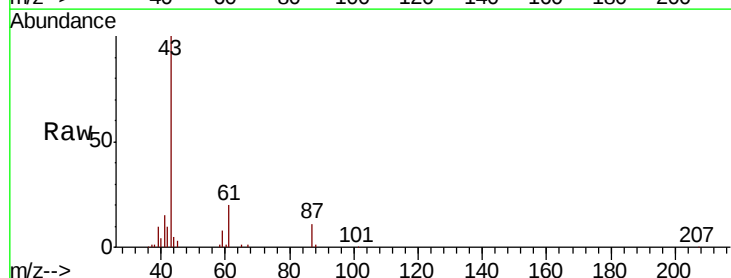


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

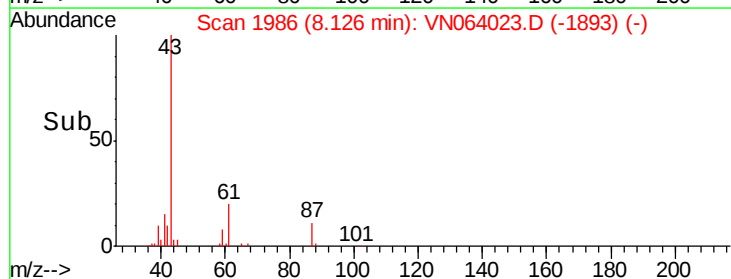
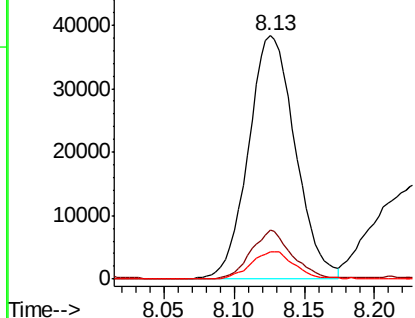


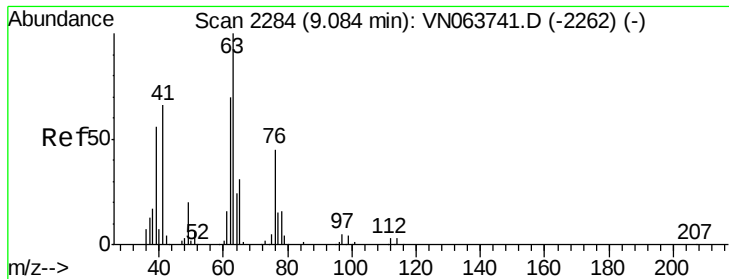
#43
Isopropyl Acetate
Concen: 11.711 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN064023.D
Acq: 9 Oct 2020 6:04

Tgt Ion: 43 Resp: 89109
Ion Ratio Lower Upper
43 100
61 17.8 14.2 21.4
87 10.6 9.0 13.6



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

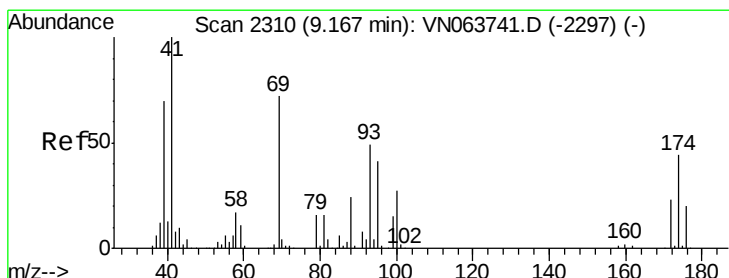
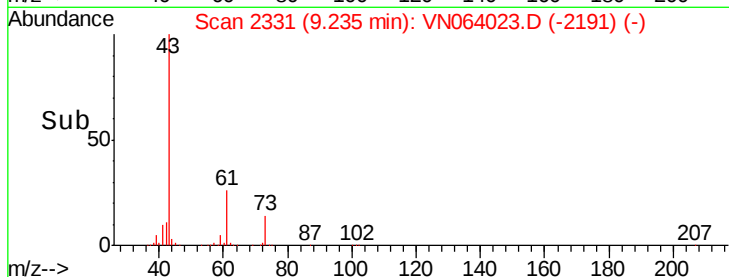
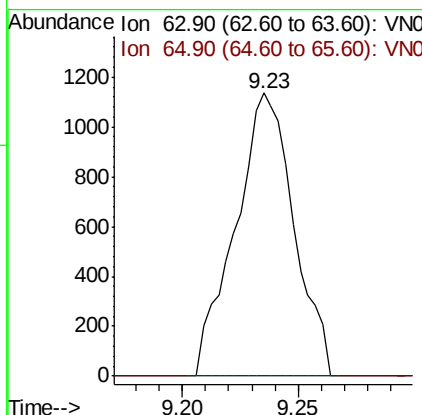
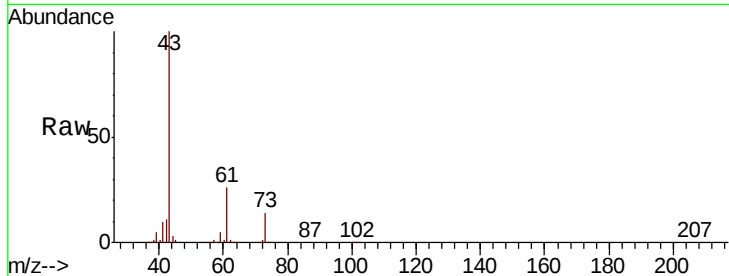




#45
 1,2-Dichloropropane
 Concen: 0.558 ug/l
 RT: 9.23 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN064023.D
 Acq: 9 Oct 2020 6:04

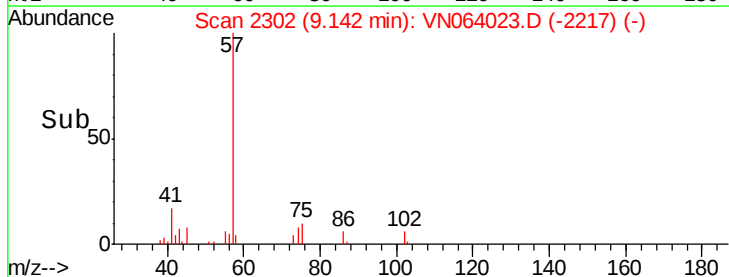
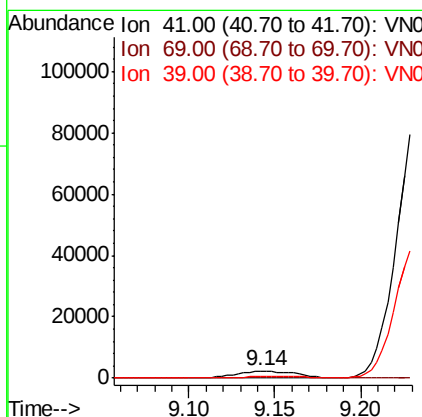
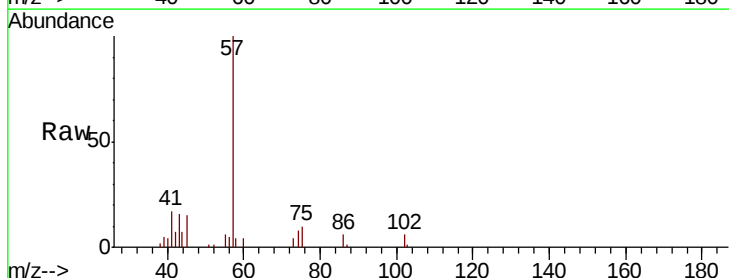
Instrument :
 MSVOA_N
 ClientSampleId :

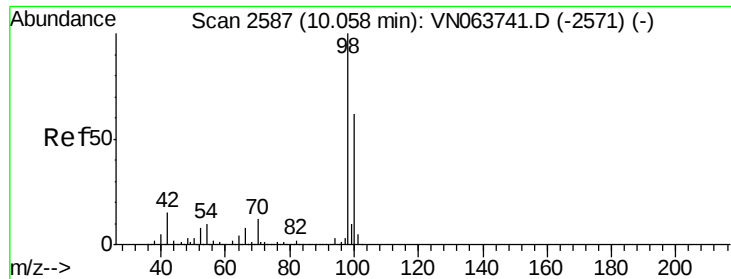
Tot Ion: 63 Resp: 1997
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.7 37.1#



#48
 Methyl methacrylate
 Concen: 1.496 ug/l
 RT: 9.14 min Scan# 2302
 Delta R.T. -0.03 min
 Lab File: VN064023.D
 Acq: 9 Oct 2020 6:04

Tgt Ion: 41 Resp: 5623
 Ion Ratio Lower Upper
 41 100
 69 0.0 60.9 91.3#
 39 0.0 57.5 86.3#





#50

Toluene-d8

Concen: 48.719 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064023.D

Acq: 9 Oct 2020 6:04

Instrument :

MSVOA_N

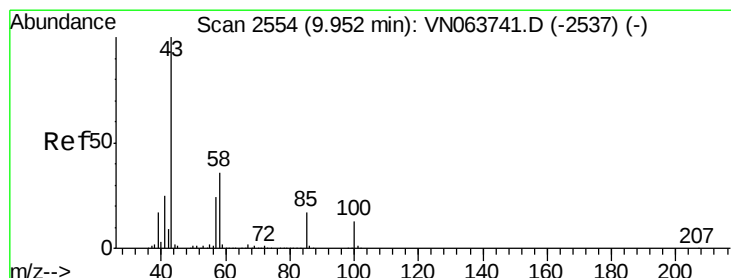
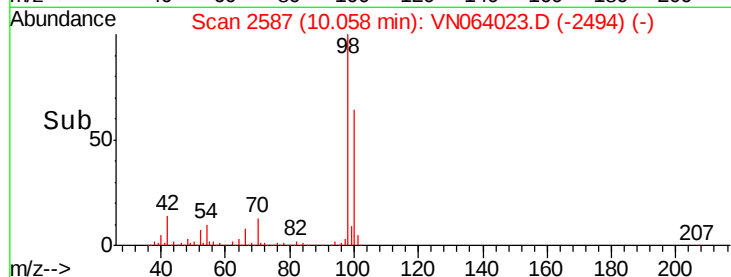
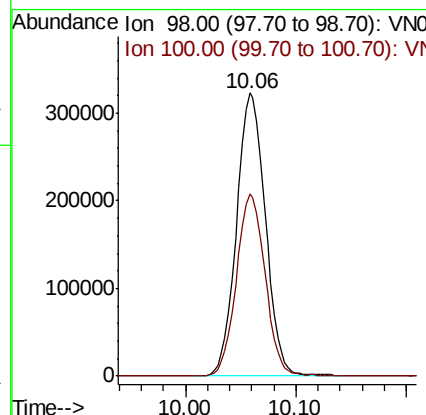
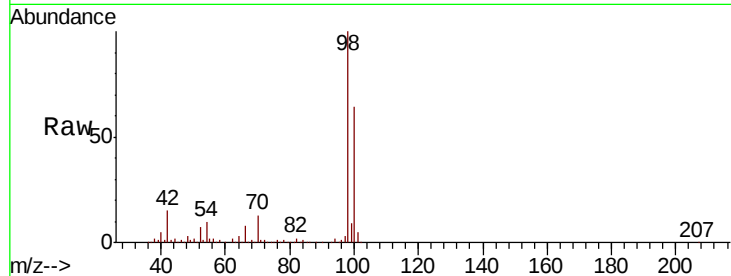
ClientSampled :

Tot Ion: 98 Resp: 587327

Ion Ratio Lower Upper

98 100

100 63.8 49.8 74.6



#51

4-Methyl-2-Pentanone

Concen: 1.485 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064023.D

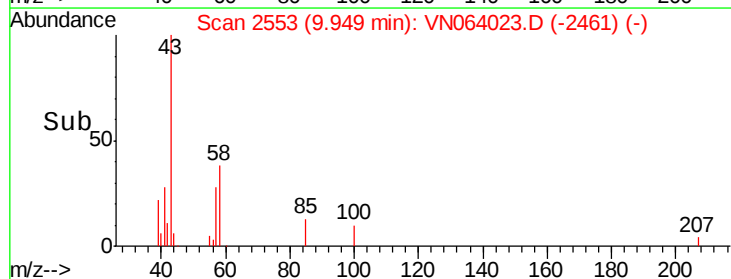
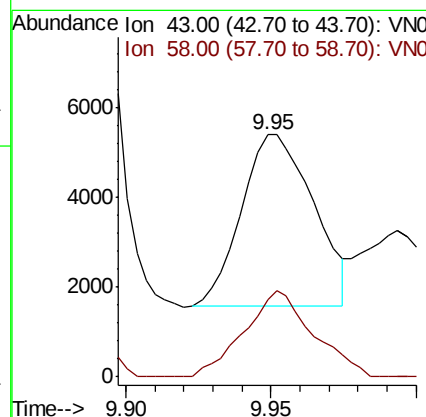
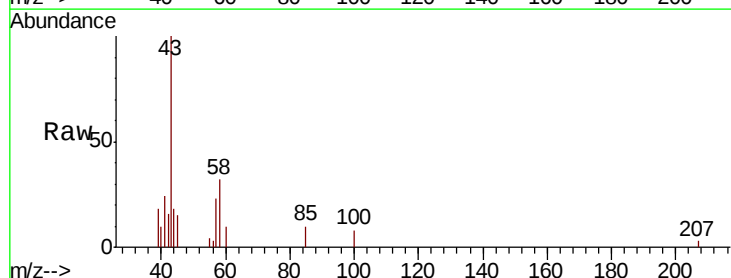
Acq: 9 Oct 2020 6:04

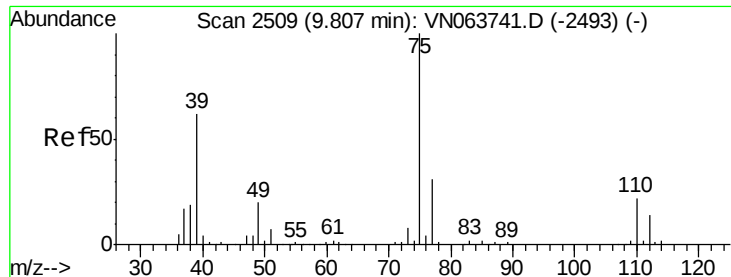
Tgt Ion: 43 Resp: 6632

Ion Ratio Lower Upper

43 100

58 47.8 28.4 42.6#



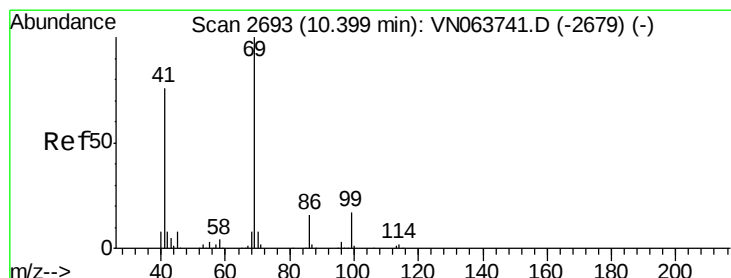
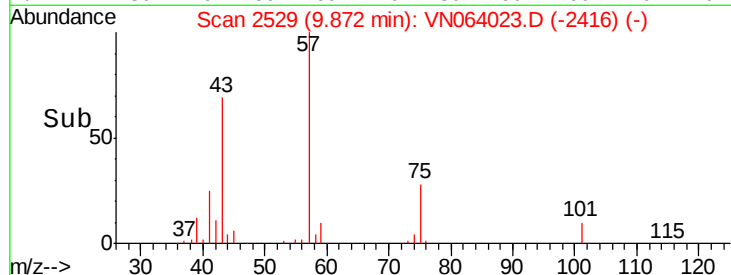
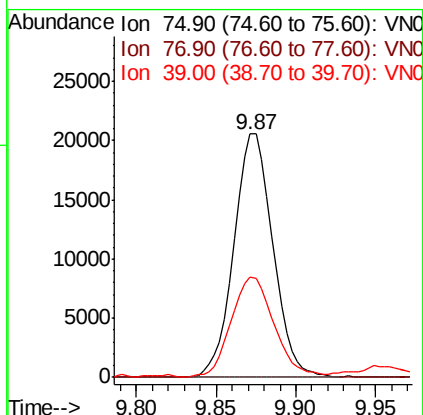
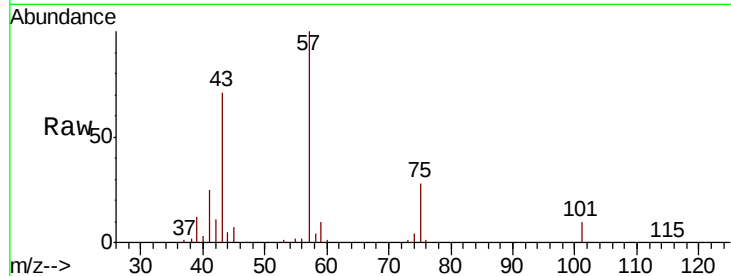


#54

cis-1,3-Dichloropropene
 Concen: 5.978 ug/l
 RT: 9.87 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN064023.D
 Acq: 9 Oct 2020 6:04

Instrument :
 MSVOA_N
 ClientSampled :

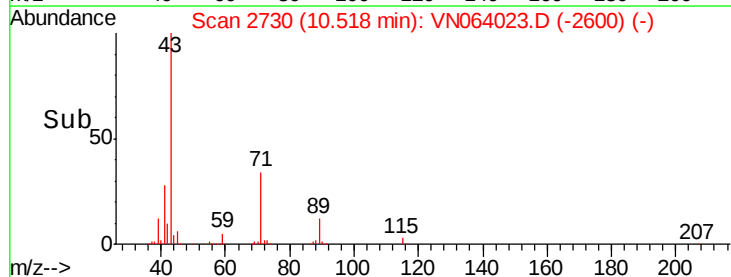
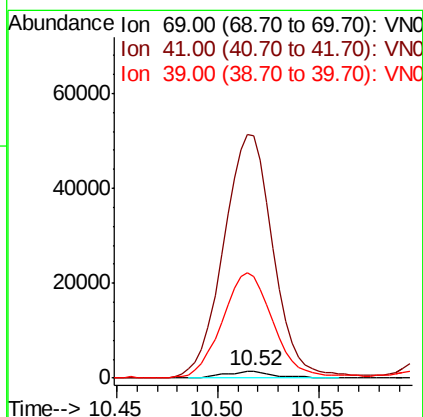
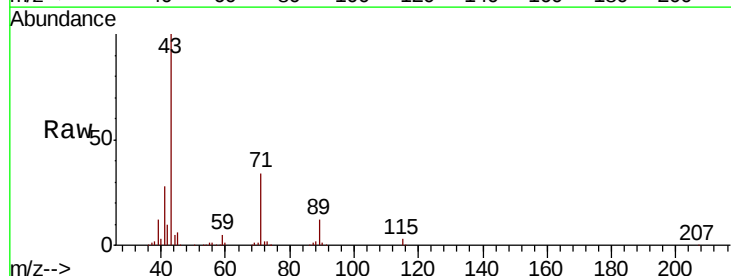
Tot Ion: 75 Resp: 34126
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 41.1 49.7 74.5#

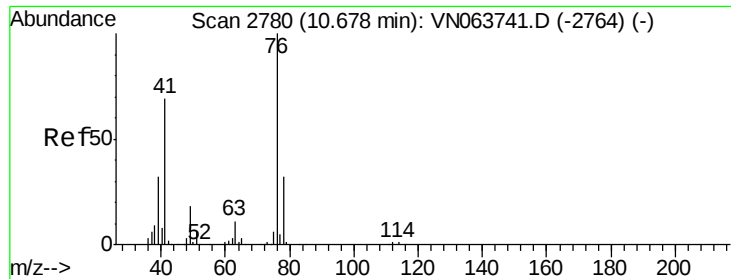


#56

Ethyl methacrylate
 Concen: 0.539 ug/l
 RT: 10.52 min Scan# 2730
 Delta R.T. 0.12 min
 Lab File: VN064023.D
 Acq: 9 Oct 2020 6:04

Tgt Ion: 69 Resp: 2515
 Ion Ratio Lower Upper
 69 100
 41 3517.6 61.1 91.7#
 39 1550.6 42.2 63.4#





#57

1,3-Dichloropropane

Concen: 1.104 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064023.D

Acq: 9 Oct 2020 6:04

Instrument :

MSVOA_N

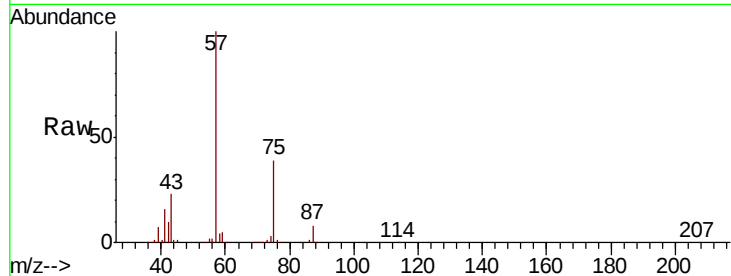
ClientSampled :

Tot Ion: 76 Resp: 6142

Ion Ratio Lower Upper

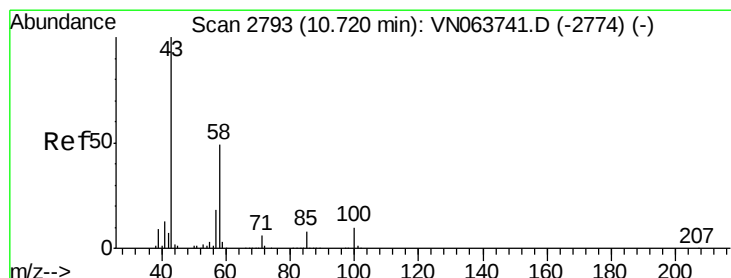
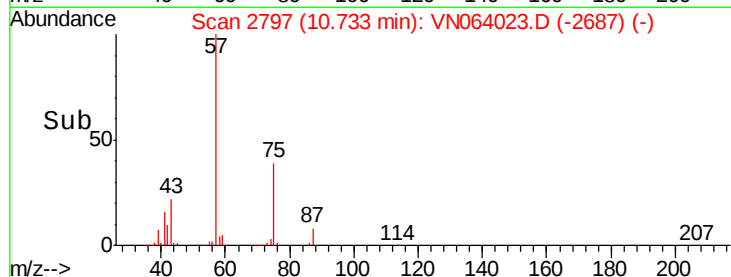
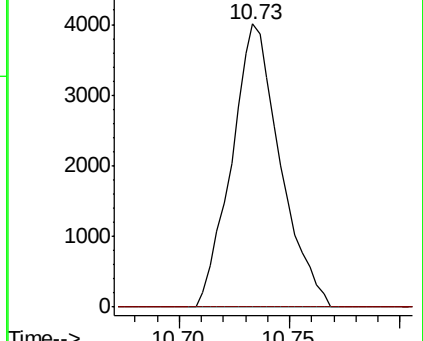
76 100

78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 30.125 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064023.D

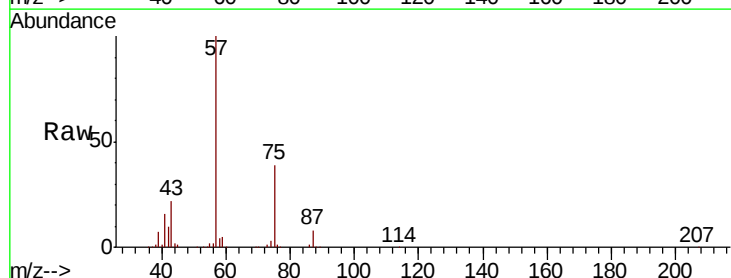
Acq: 9 Oct 2020 6:04

Tgt Ion: 43 Resp: 99929

Ion Ratio Lower Upper

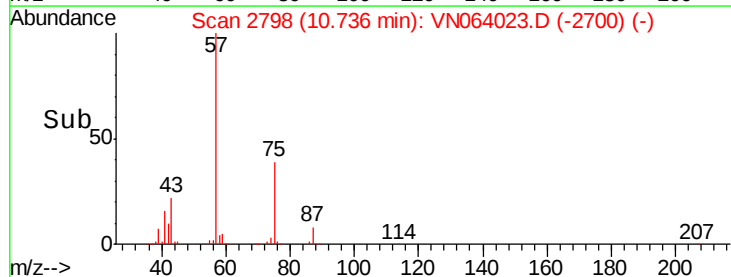
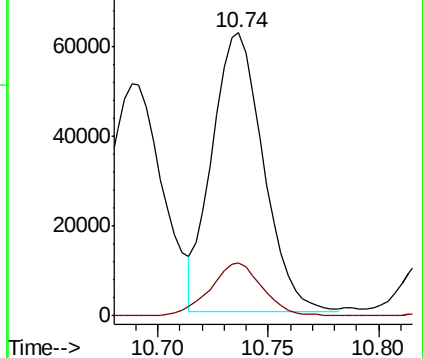
43 100

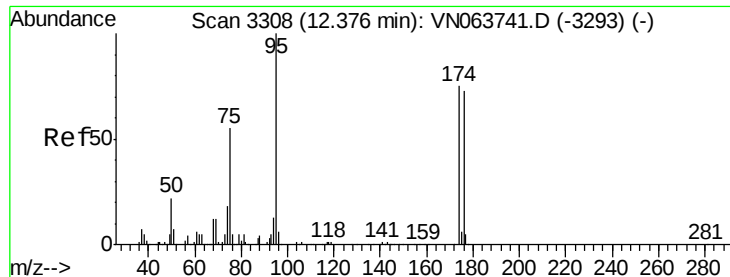
58 19.4 24.6 73.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

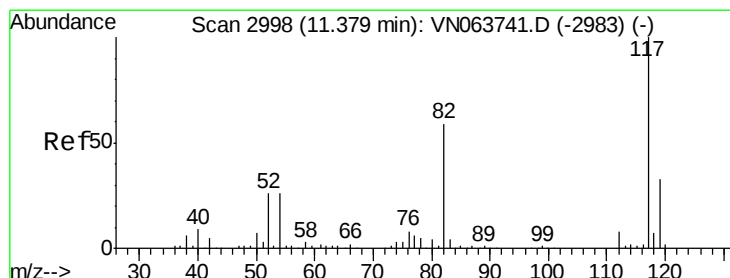
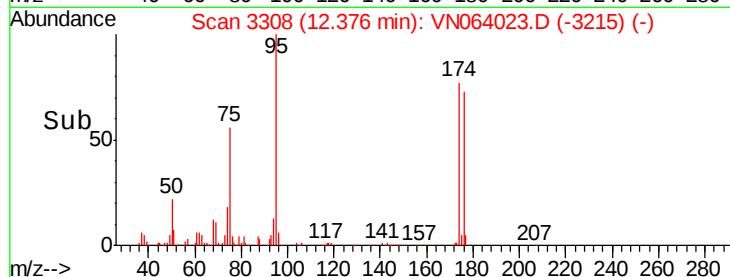
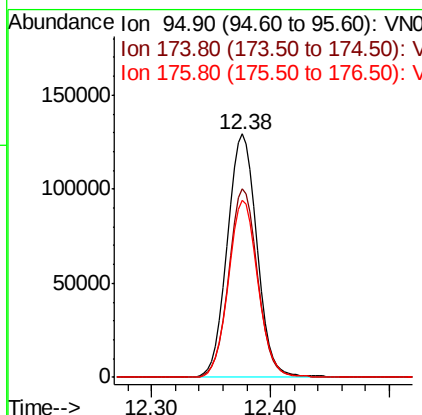
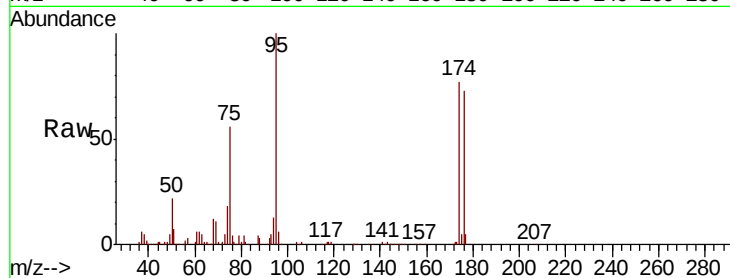




#62
4-Bromofluorobenzene
Concen: 49.312 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064023.D
Acq: 9 Oct 2020 6:04

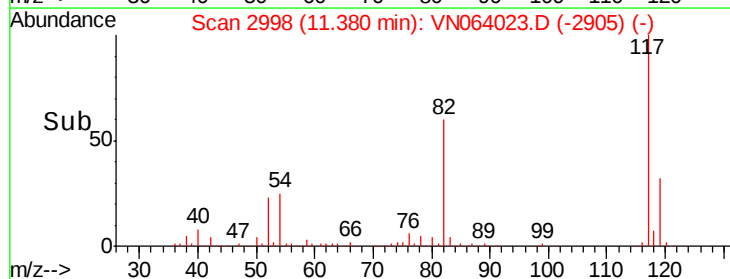
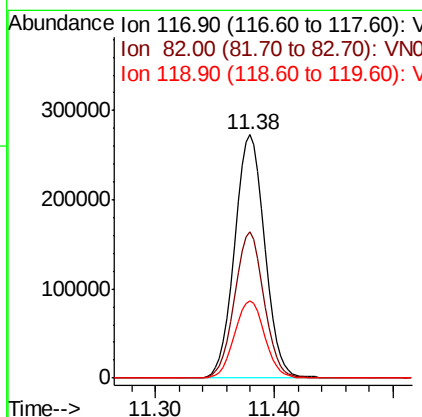
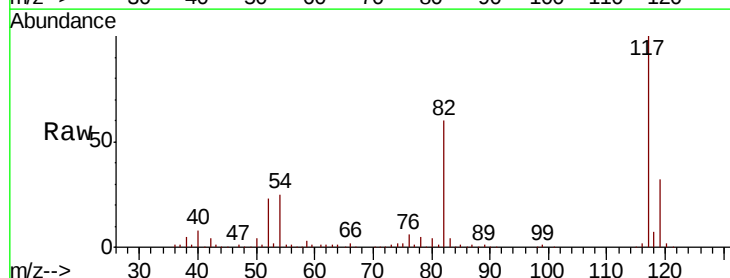
Instrument :
MSVOA_N
ClientSampleId :

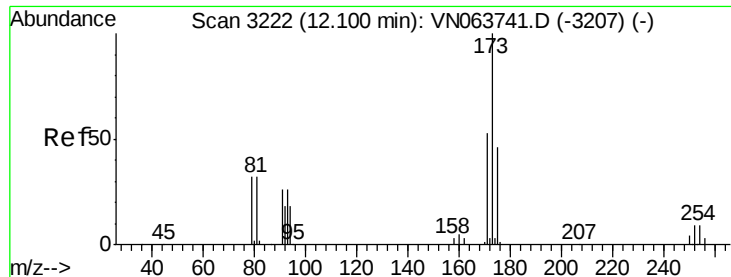
Tot Ion	Ratio	Lower	Upper
95	100		
174	75.6	0.0	150.6
176	72.3	0.0	145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064023.D
Acq: 9 Oct 2020 6:04

Tgt Ion	Ratio	Lower	Upper
117	100		
82	60.0	47.4	71.2
119	32.0	26.4	39.6





#71

Bromoform

Concen: 0.647 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN064023.D

Acq: 9 Oct 2020 6:04

Instrument :

MSVOA_N

ClientSampled :

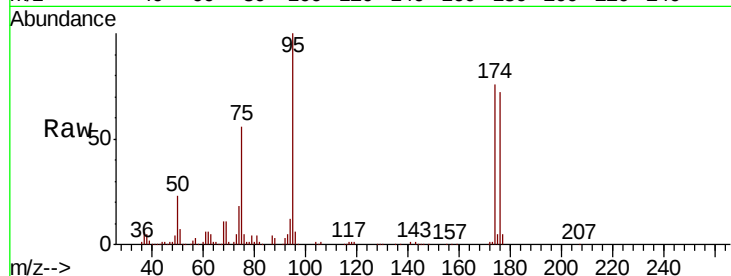
Tot Ion:173 Resp: 1863

Ion Ratio Lower Upper

173 100

175 548.0 23.5 70.5#

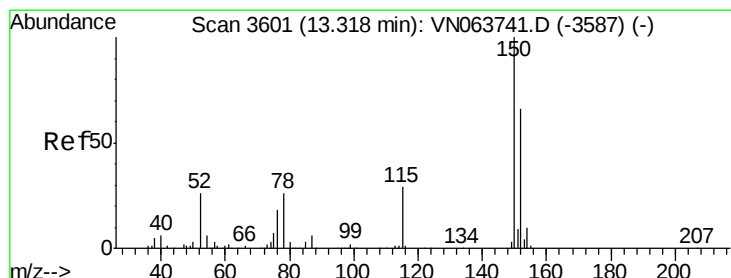
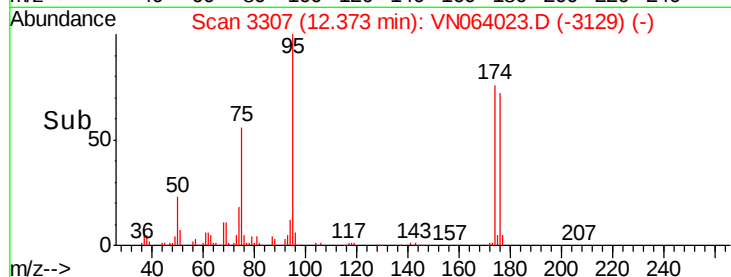
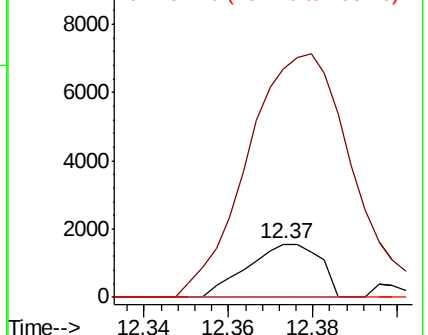
254 0.0 0.0 0.0



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: VN064023.D

Acq: 9 Oct 2020 6:04

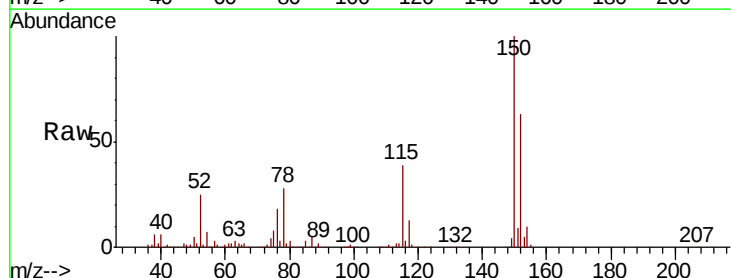
Tgt Ion:152 Resp: 177915

Ion Ratio Lower Upper

152 100

115 62.5 31.3 93.8

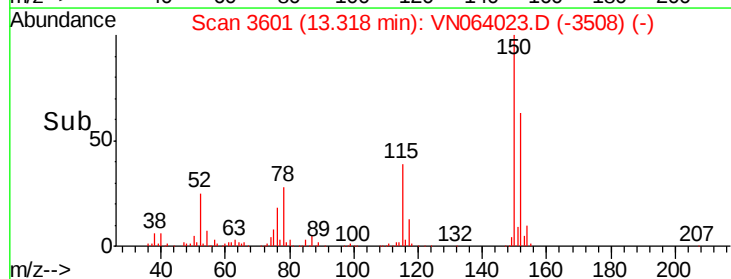
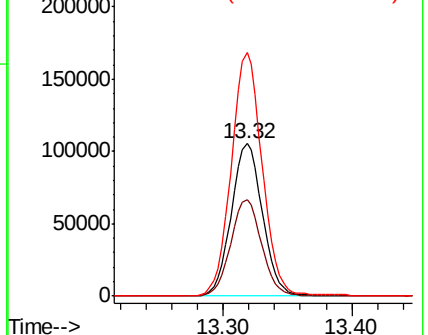
150 157.4 0.0 341.8

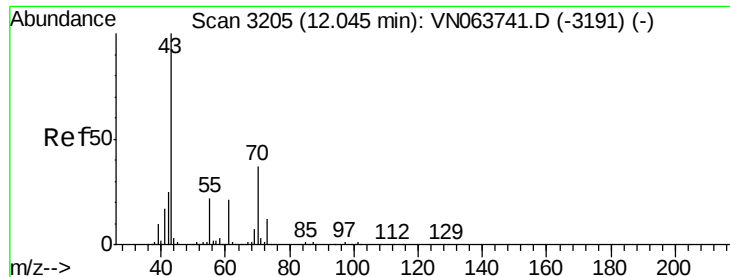


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.679 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN064023.D

Acq: 9 Oct 2020 6:04

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2921

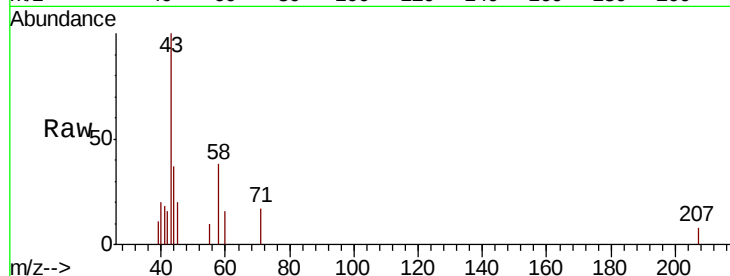
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 8.0 17.9 26.9#

61 0.0 17.0 25.4#

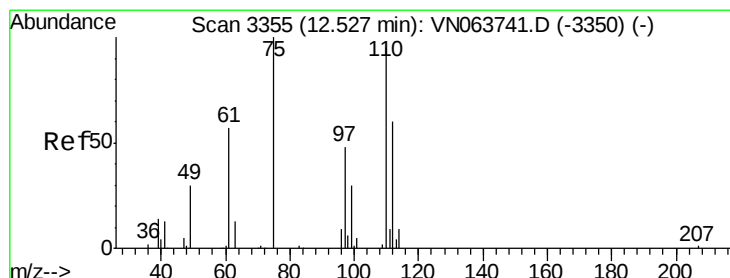
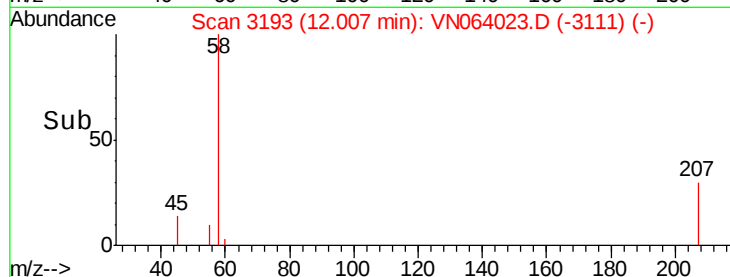
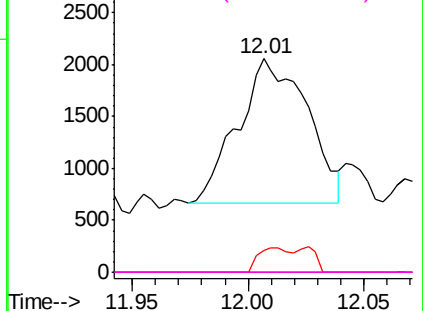


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 31.176 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064023.D

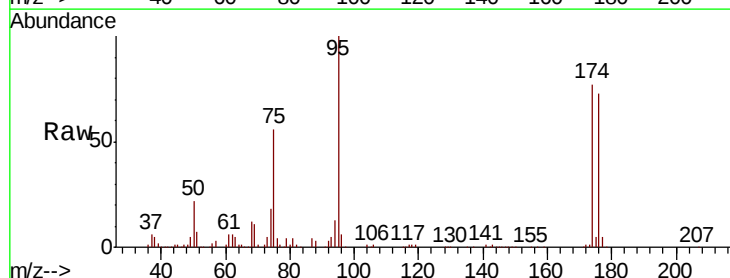
Acq: 9 Oct 2020 6:04

Tgt Ion: 75 Resp: 122269

Ion Ratio Lower Upper

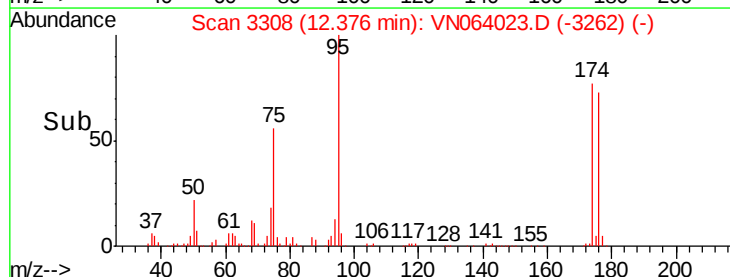
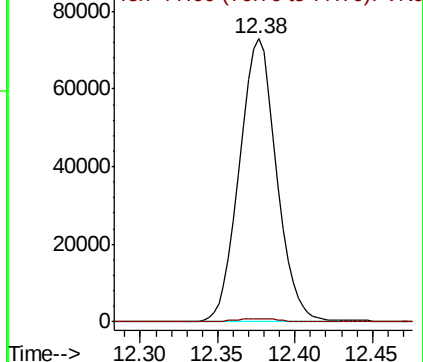
75 100

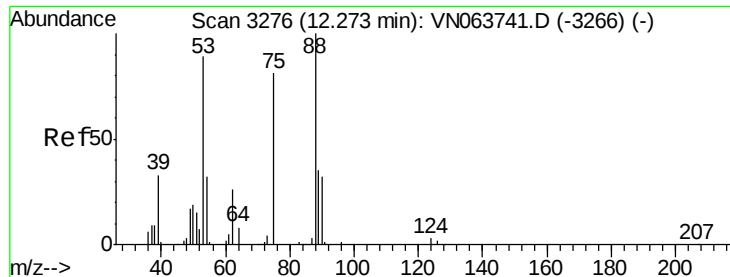
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

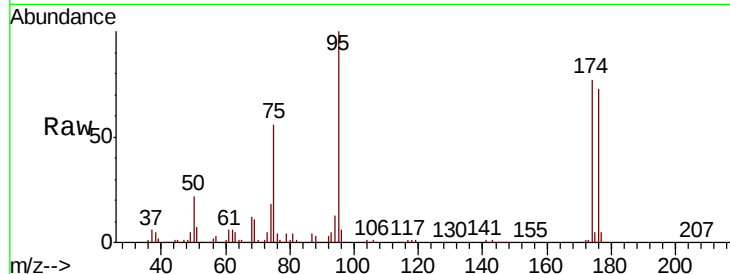




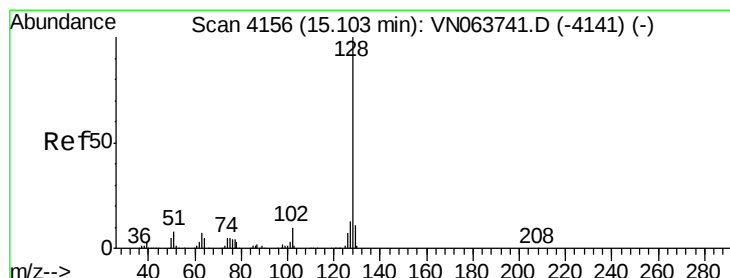
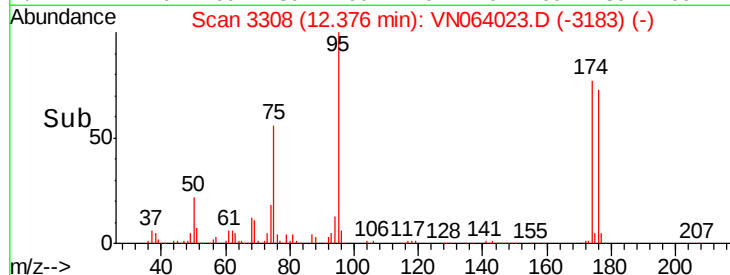
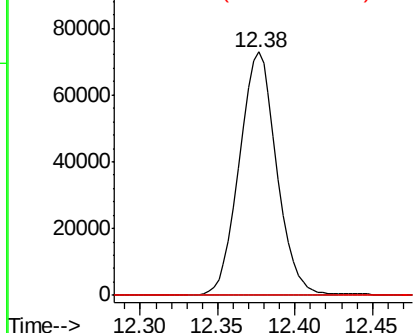
#81
trans-1,4-Dichloro-2-butene
Concen: 89.791 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN064023.D
Acq: 9 Oct 2020 6:04

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 122269
Ion Ratio Lower Upper
75 100
53 0.2 88.2 132.2#
89 0.0 36.0 54.0#

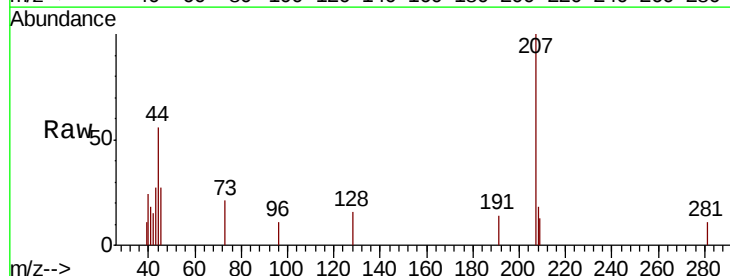


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#95
Naphthalene
Concen: 1.939 ug/l
RT: 15.11 min Scan# 4157
Delta R.T. 0.00 min
Lab File: VN064023.D
Acq: 9 Oct 2020 6:04

Tgt Ion: 128 Resp: 150
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#



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

