

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100820\
 Data File : VN064019.D
 Acq On : 9 Oct 2020 4:28
 Operator : JC/MD
 Sample : PB132189ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132189ZHE#08

Quant Time: Oct 09 07:06:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	236375	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	454915	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	469826	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	176589	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	203366	52.08	ug/l	0.00
Spiked Amount			Recovery	=	104.16%	
35) Dibromofluoromethane	7.55	113	148230	46.96	ug/l	0.00
Spiked Amount			Recovery	=	93.92%	
50) Toluene-d8	10.06	98	577287	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
62) 4-Bromofluorobenzene	12.38	95	214501	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	

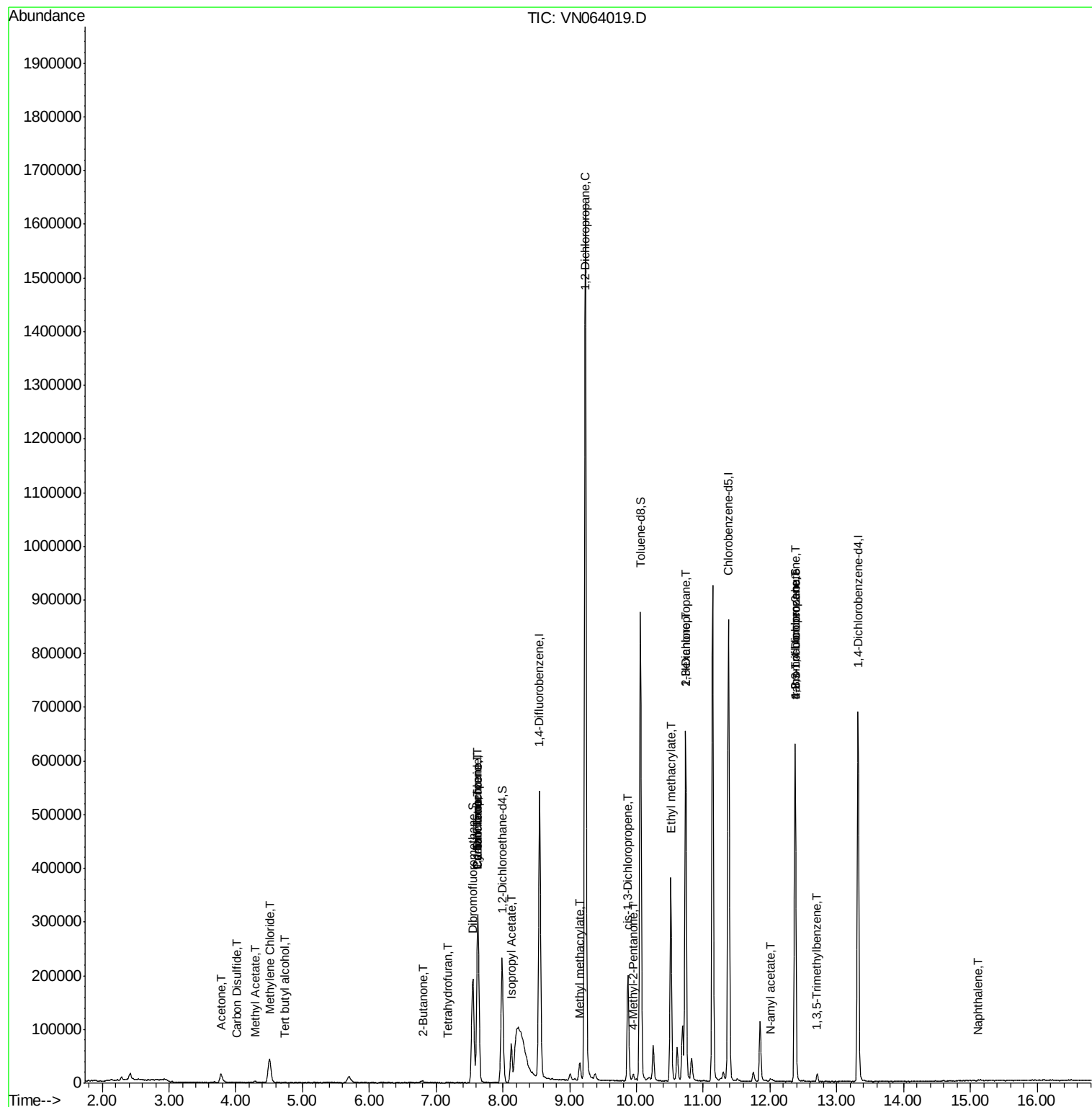
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	216	0.501	ug/l #	71
16) Acetone	3.78	43	29654	24.668	ug/l	92
17) Carbon Disulfide	4.01	76	663	0.802	ug/l #	76
18) Methyl Acetate	4.30	43	3486	1.117	ug/l #	88
20) Methylene Chloride	4.51	84	32327	11.816	ug/l	93
25) 2-Butanone	6.80	43	3462	2.031	ug/l #	77
29) Tetrahydrofuran	7.17	42	380	0.332	ug/l #	36
31) Cyclohexane	7.62	56	6180	1.363	ug/l #	6
36) 1,1-Dichloropropene	7.63	75	20799	4.513	ug/l #	50
38) Carbon Tetrachloride	7.62	117	24700	4.779	ug/l #	14
43) Isopropyl Acetate	8.13	43	81506	10.792	ug/l	98
45) 1,2-Dichloropropane	9.23	63	1821	0.512	ug/l #	44
48) Methyl methacrylate	9.14	41	4902	1.314	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	13101	2.956	ug/l #	74
54) cis-1,3-Dichloropropene	9.87	75	32501	5.736	ug/l #	69
56) Ethyl methacrylate	10.51	69	2172	0.469	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6100	1.104	ug/l #	43
59) 2-Hexanone	10.74	43	100972	30.667	ug/l #	55
74) N-amyl acetate	12.01	43	2677	2.643	ug/l #	55
76) 1,2,3-Trichloropropane	12.38	75	114663	29.456	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	6750	0.625	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	114663	84.837	ug/l #	6
95) Naphthalene	15.13	128	98	1.934	ug/l #	69

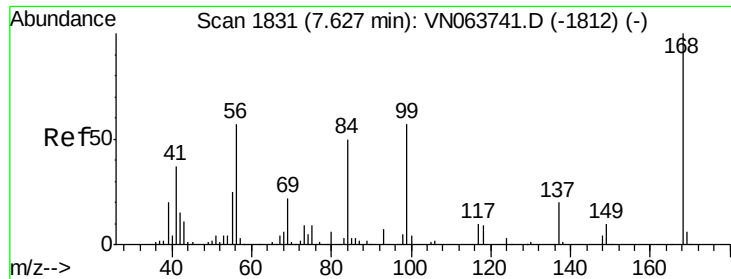
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064019.D

Acq: 9 Oct 2020 4:28

Instrument :

MSVOA_N

ClientSampleId :

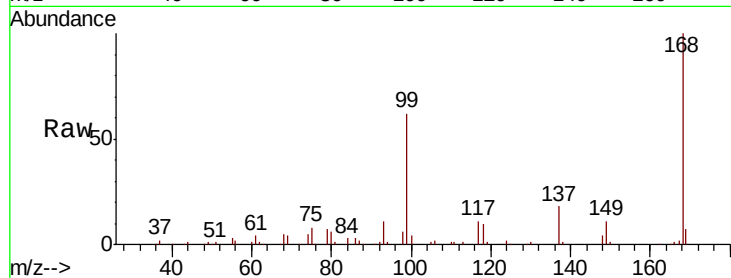
PB132189ZHE#08

Tot Ion:168 Resp: 236375

Ion Ratio Lower Upper

168 100

99 62.2 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

100000

80000

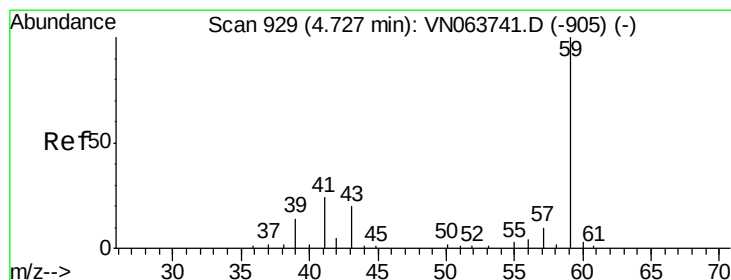
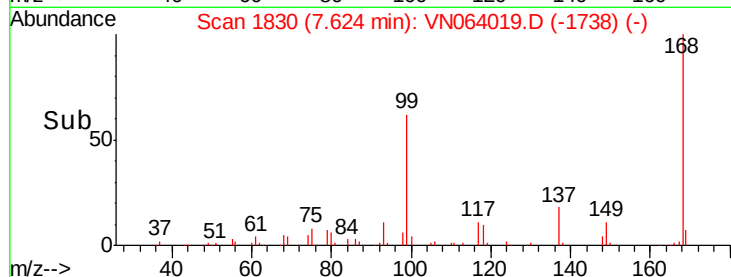
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.501 ug/l

RT: 4.73 min Scan# 929

Delta R.T. 0.00 min

Lab File: VN064019.D

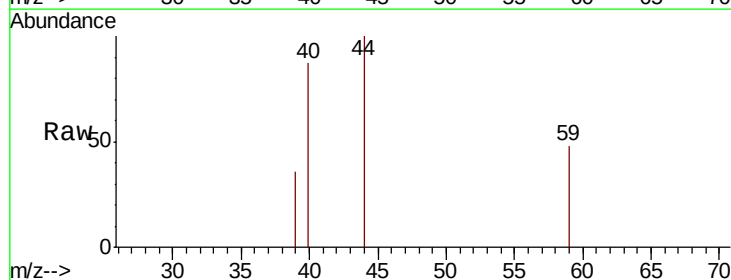
Acq: 9 Oct 2020 4:28

Tgt Ion: 59 Resp: 216

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

300

250

200

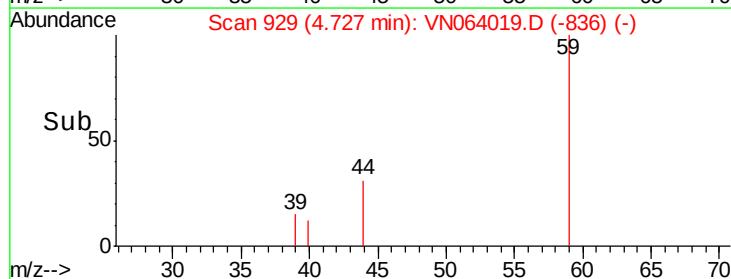
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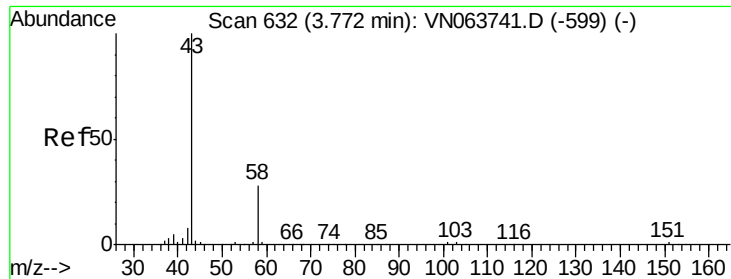
100

50

0

Time--> 4.71 4.72 4.73 4.74 4.75





#16

Acetone

Concen: 24.668 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN064019.D

Acq: 9 Oct 2020 4:28

Instrument :

MSVOA_N

ClientSampleId :

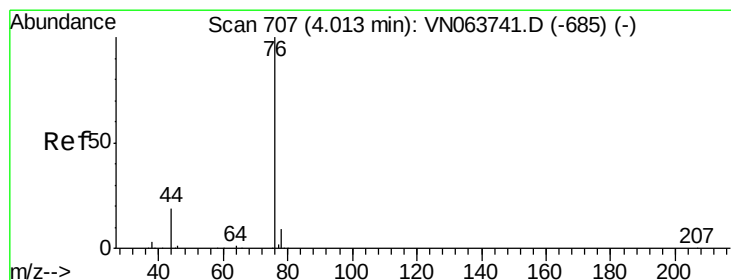
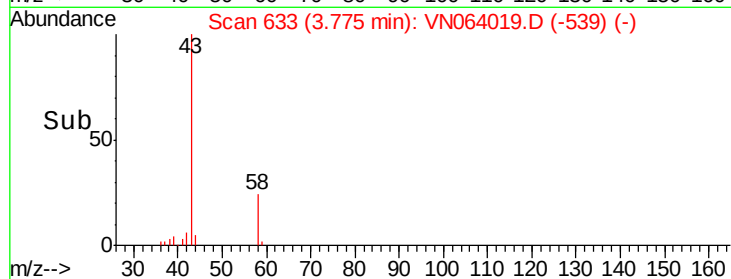
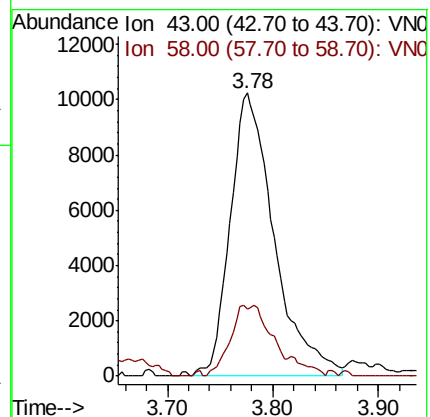
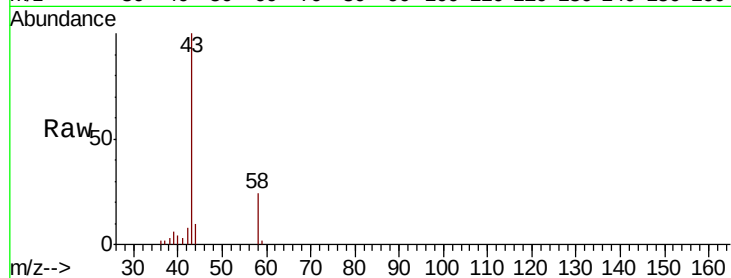
PB132189ZHE#08

Tot Ion: 43 Resp: 29654

Ion Ratio Lower Upper

43 100

58 23.6 22.3 33.5



#17

Carbon Disulfide

Concen: 0.802 ug/l

RT: 4.01 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN064019.D

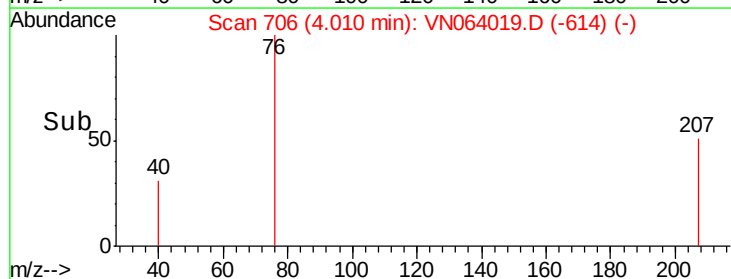
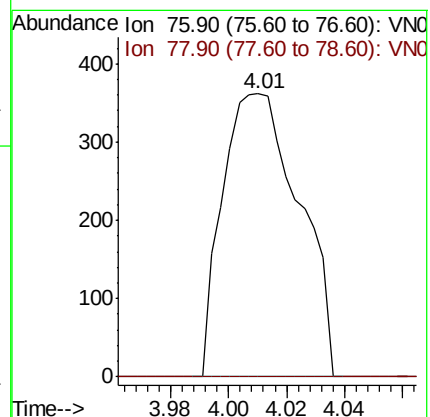
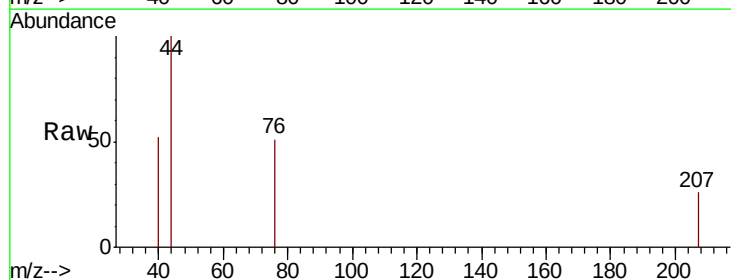
Acq: 9 Oct 2020 4:28

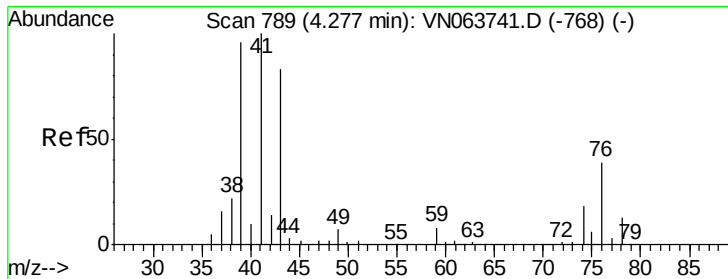
Tgt Ion: 76 Resp: 663

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#

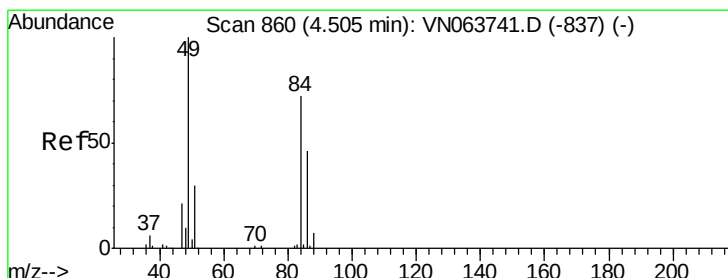
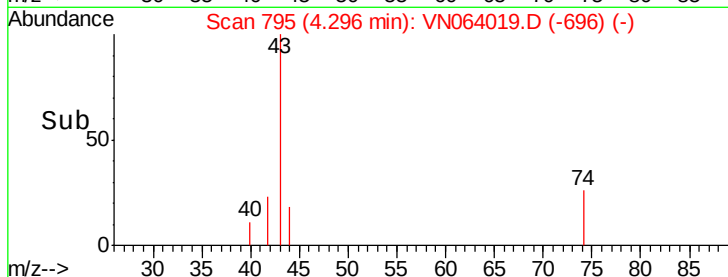
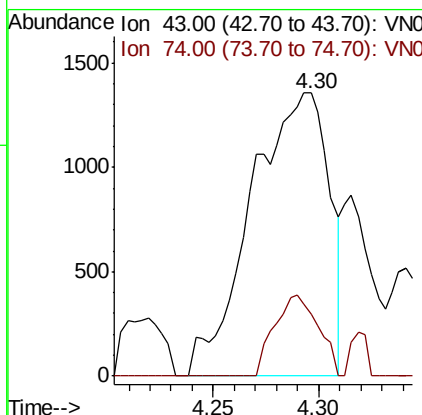
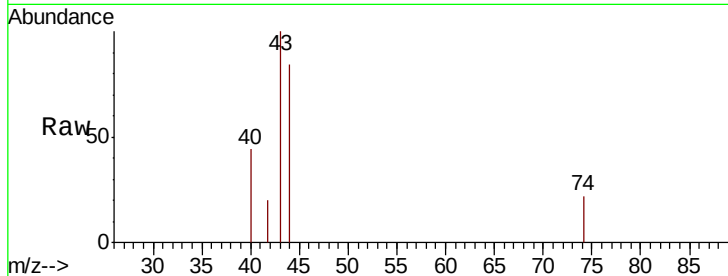




#18
Methyl Acetate
Concen: 1.117 ug/l
RT: 4.30 min Scan# 795
Delta R.T. 0.02 min
Lab File: VN064019.D
Acq: 9 Oct 2020 4:28

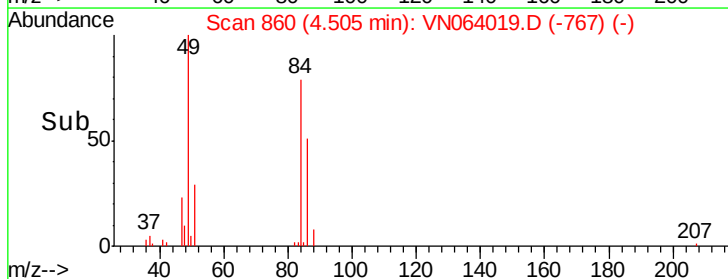
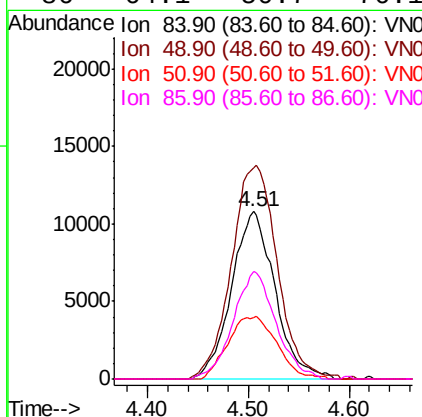
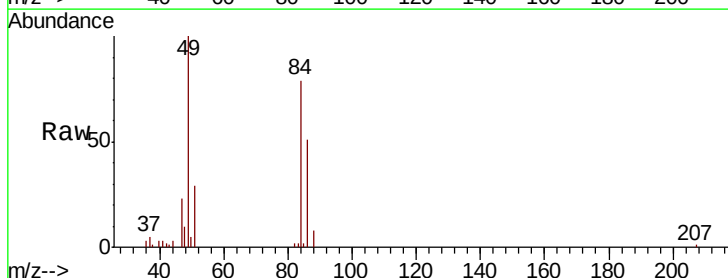
Instrument :
MSVOA_N
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PB132189ZHE#08

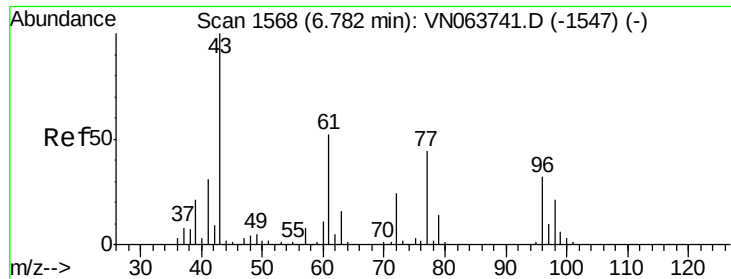
Tot Ion: 43 Resp: 3486
Ion Ratio Lower Upper
43 100
74 16.2 17.4 26.2#



#20
Methylene Chloride
Concen: 11.816 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN064019.D
Acq: 9 Oct 2020 4:28

Tgt Ion: 84 Resp: 32327
Ion Ratio Lower Upper
84 100
49 126.4 110.4 165.6
51 36.8 33.3 49.9
86 64.1 50.7 76.1

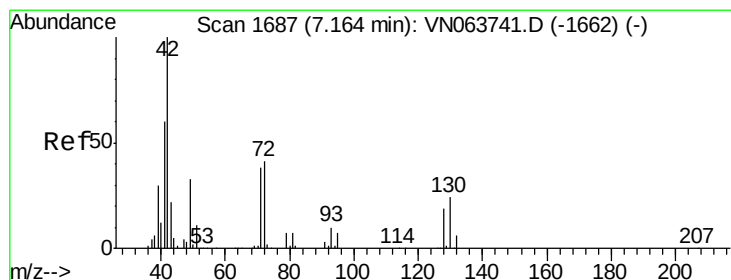
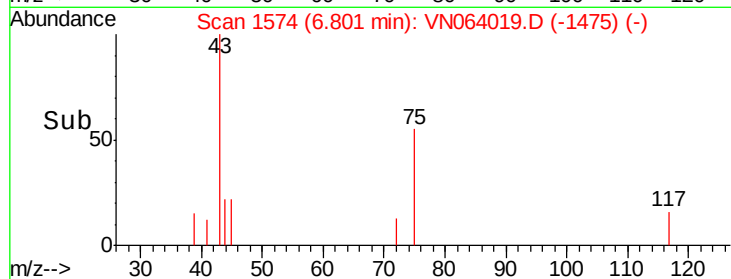
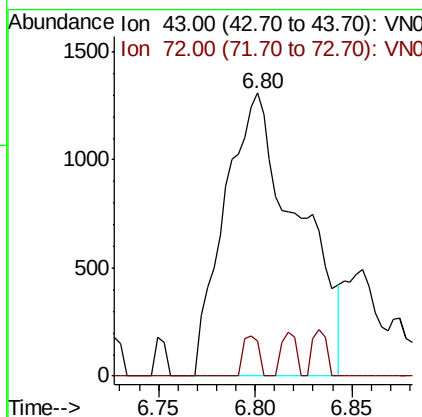
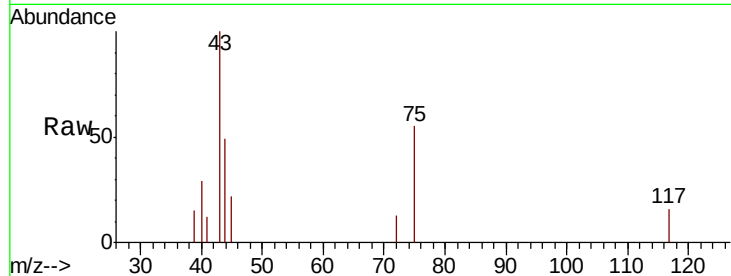




#25
2-Butanone
Concen: 2.031 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN064019.D
Acq: 9 Oct 2020 4:28

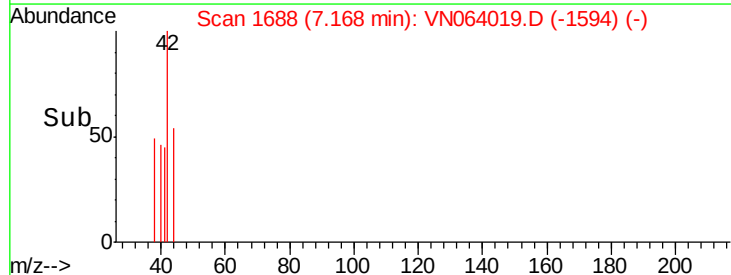
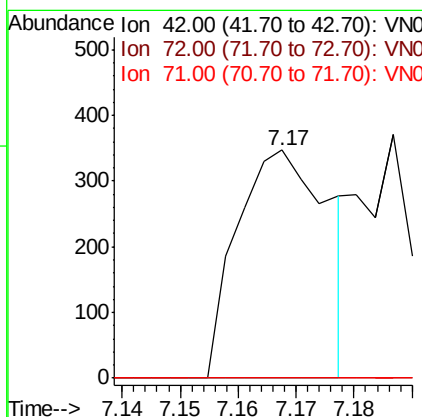
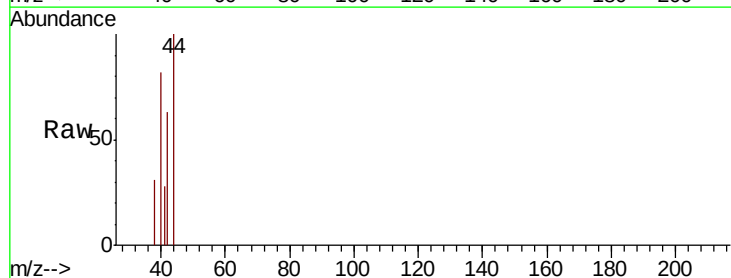
Instrument :
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ClientSampleId :
PB132189ZHE#08

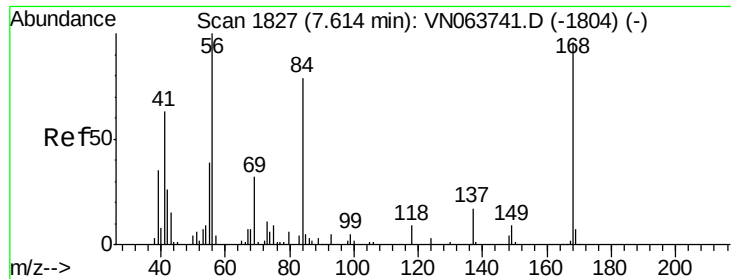
Tot Ion: 43 Resp: 3462
Ion Ratio Lower Upper
43 100
72 12.6 19.3 28.9#



#29
Tetrahydrofuran
Concen: 0.332 ug/l
RT: 7.17 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VN064019.D
Acq: 9 Oct 2020 4:28

Tgt Ion: 42 Resp: 380
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 0.0 30.6 45.8#

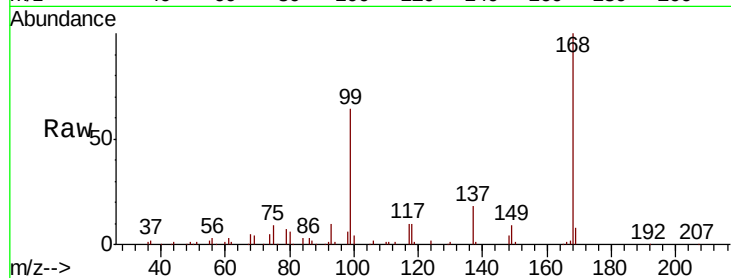




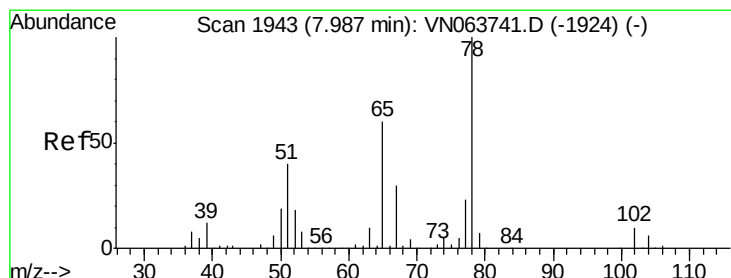
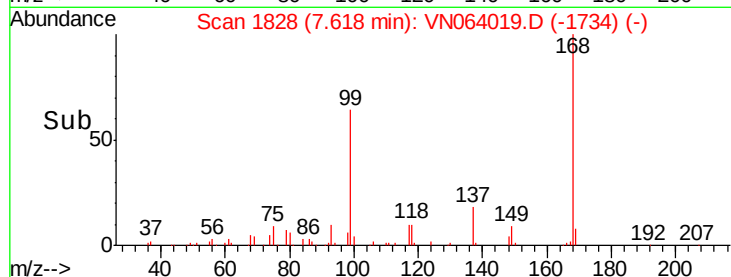
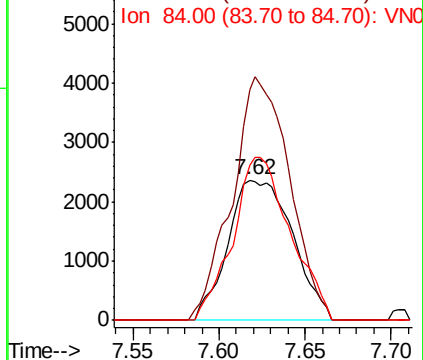
#31
Cyclohexane
Concen: 1.363 ug/l
RT: 7.62 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN064019.D
Acq: 9 Oct 2020 4:28

Instrument :
MSVOA_N
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PB132189ZHE#08

Tot Ion: 56 Resp: 6180
Ion Ratio Lower Upper
56 100
69 164.5 25.4 38.2#
84 110.3 63.3 94.9#

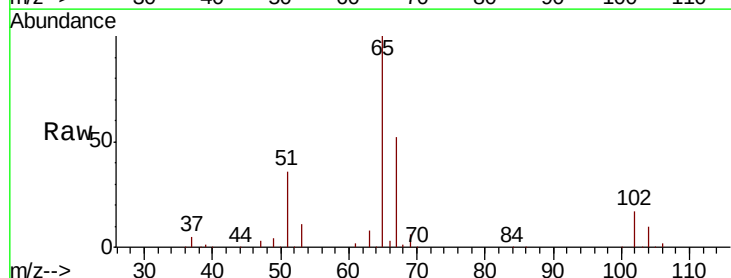


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

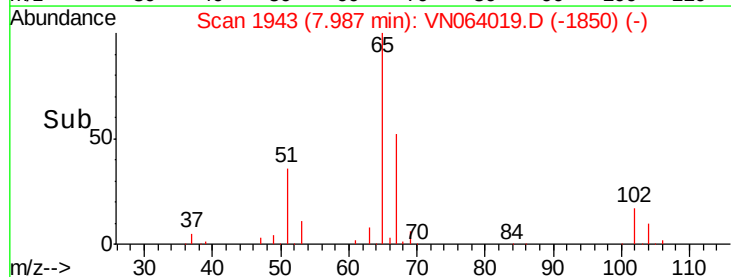
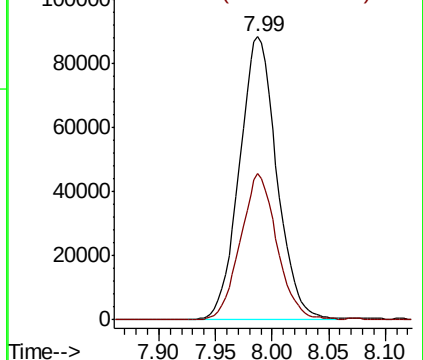


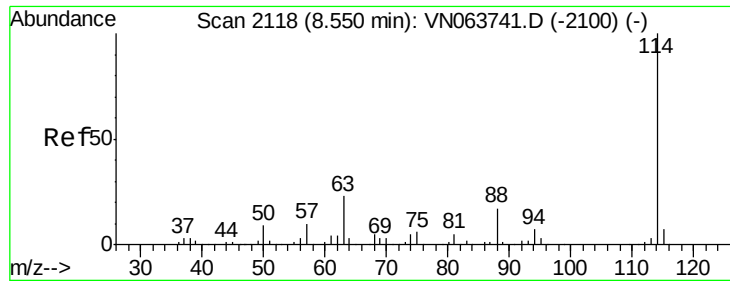
#33
1,2-Dichloroethane-d4
Concen: 52.077 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064019.D
Acq: 9 Oct 2020 4:28

Tgt Ion: 65 Resp: 203366
Ion Ratio Lower Upper
65 100
67 50.4 0.0 99.6



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

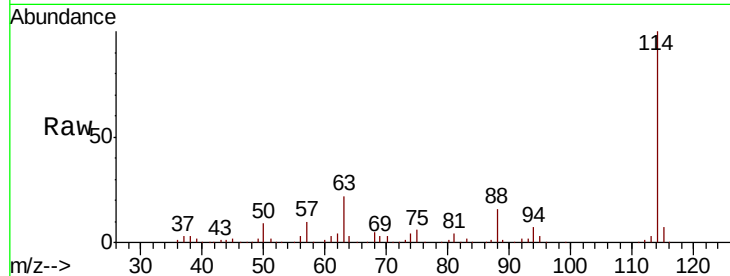




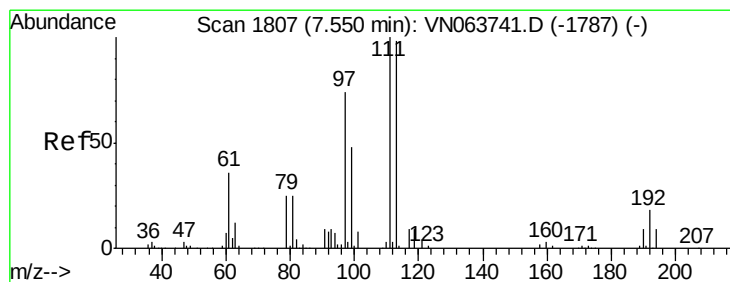
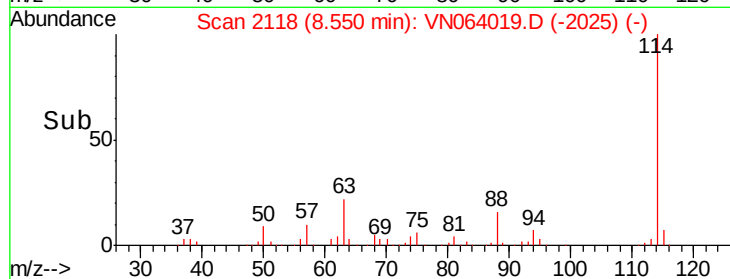
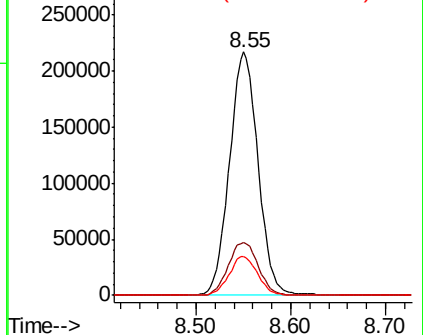
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064019.D
 Acq: 9 Oct 2020 4:28

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 PB132189ZHE#08

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	45.0
88	15.9	0.0	34.0

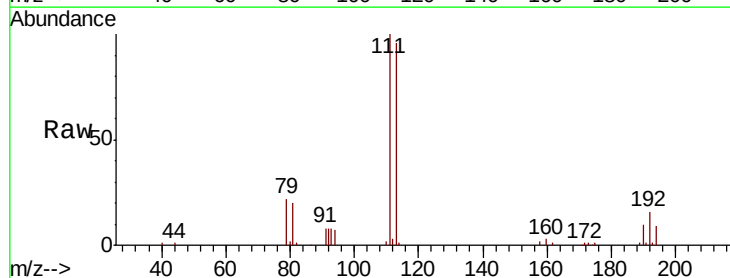


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

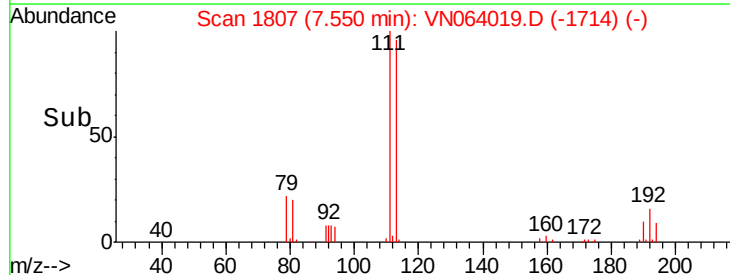
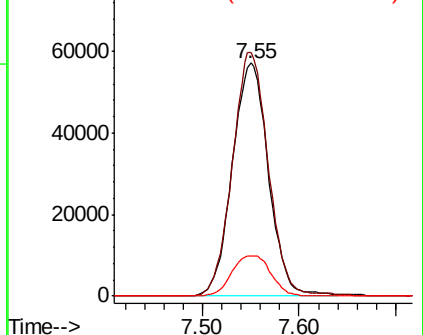


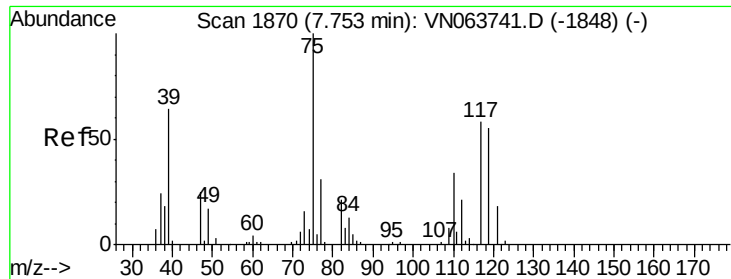
#35
 Dibromofluoromethane
 Concen: 46.960 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064019.D
 Acq: 9 Oct 2020 4:28

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.8	122.8
192	18.6	14.2	21.2



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

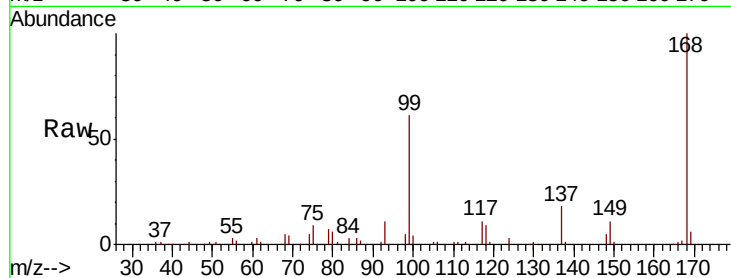




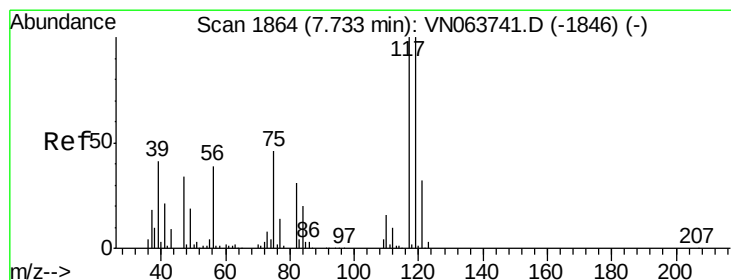
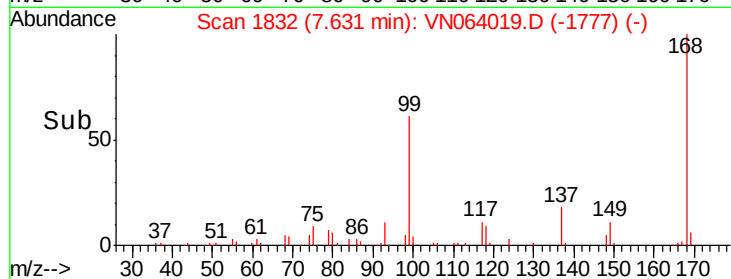
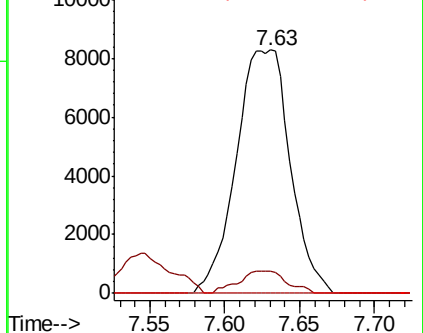
#36
 1,1-Dichloropropene
 Concen: 4.513 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.12 min
 Lab File: VN064019.D
 Acq: 9 Oct 2020 4:28

Instrument :
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 PB132189ZHE#08

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	16.9	50.6#
77	0.0	24.5	36.7#

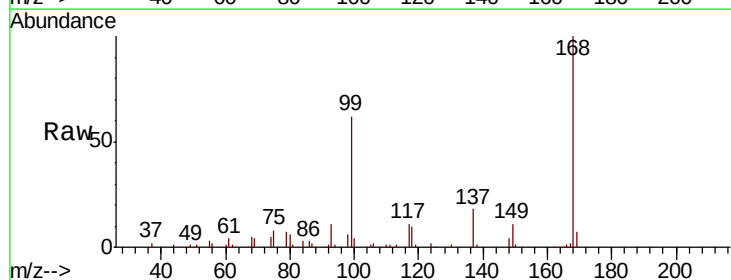


Abundance Ion 74.90 (74.60 to 75.60): VN063741.D (-1848) (-)
 Ion 109.90 (109.60 to 110.60): VN063741.D (-1848) (-)
 Ion 76.90 (76.60 to 77.60): VN063741.D (-1848) (-)

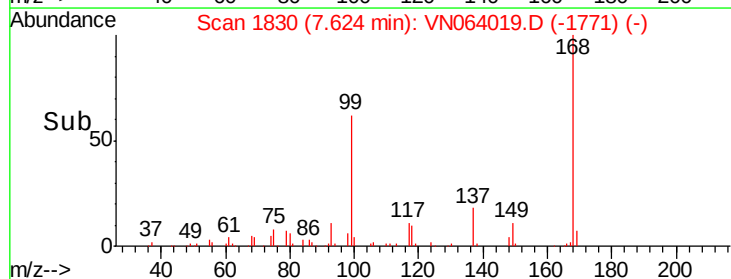
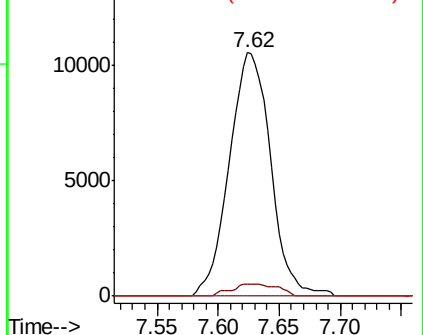


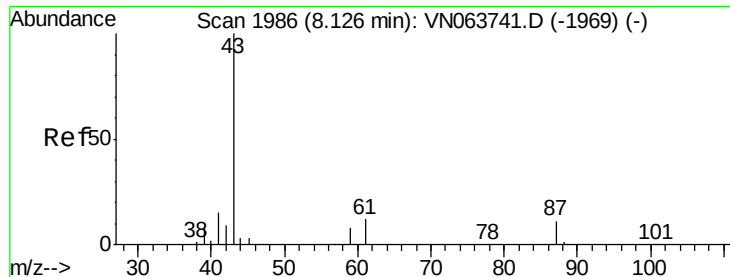
#38
 Carbon Tetrachloride
 Concen: 4.779 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN064019.D
 Acq: 9 Oct 2020 4:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	80.1	120.1#
121	0.0	25.7	38.5#



Abundance Ion 116.80 (116.50 to 117.50): VN064019.D (-1771) (-)
 Ion 118.80 (118.50 to 119.50): VN064019.D (-1771) (-)
 Ion 120.80 (120.50 to 121.50): VN064019.D (-1771) (-)





#43

Isopropyl Acetate

Concen: 10.792 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064019.D

Acq: 9 Oct 2020 4:28

Instrument :

MSVOA_N

ClientSampleId :

PB132189ZHE#08

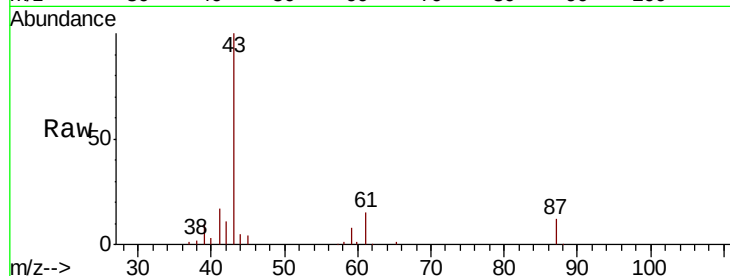
Tot Ion: 43 Resp: 81506

Ion Ratio Lower Upper

43 100

61 17.3 14.2 21.4

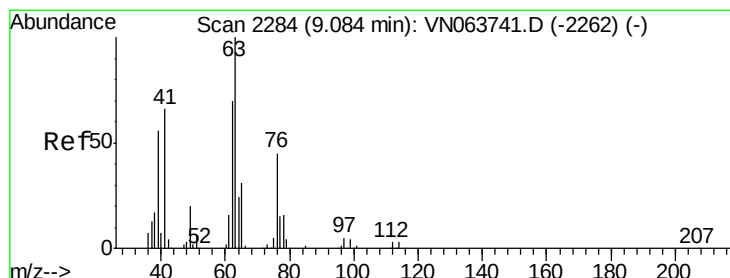
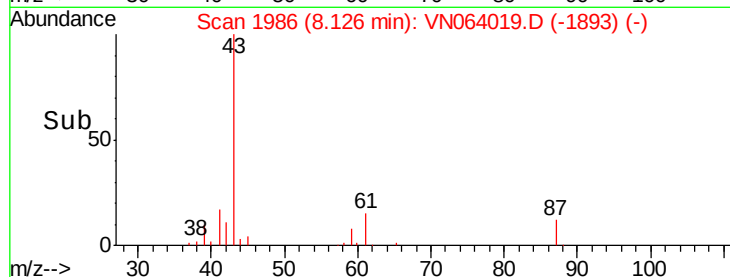
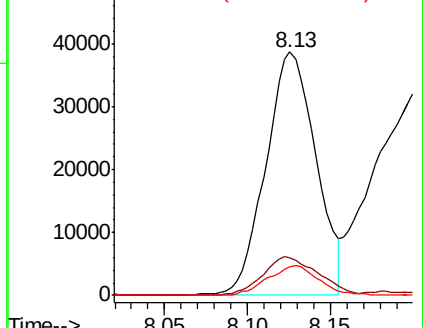
87 12.3 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN064019.D (-1893) (-)

Ion 61.00 (60.70 to 61.70): VN064019.D (-1893) (-)

Ion 87.00 (86.70 to 87.70): VN064019.D (-1893) (-)



#45

1,2-Dichloropropane

Concen: 0.512 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064019.D

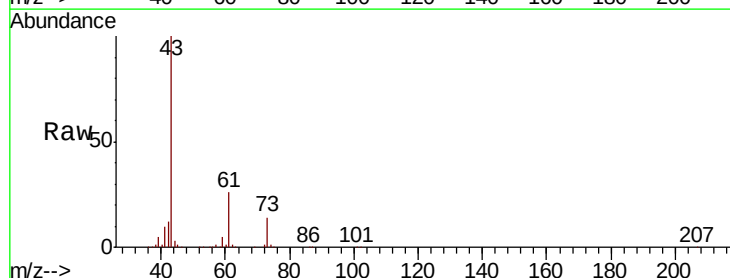
Acq: 9 Oct 2020 4:28

Tgt Ion: 63 Resp: 1821

Ion Ratio Lower Upper

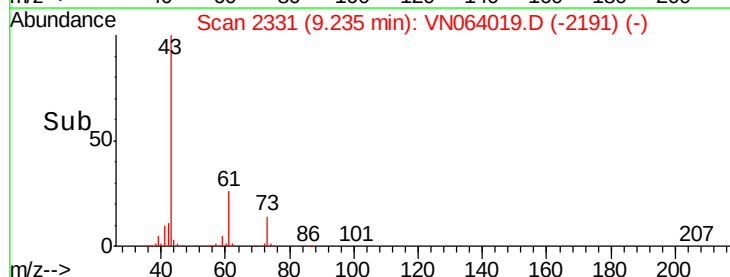
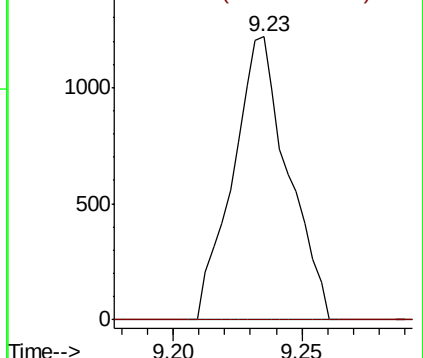
63 100

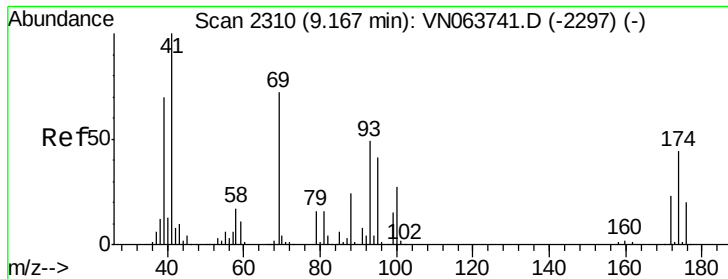
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN064019.D (-2191) (-)

Ion 64.90 (64.60 to 65.60): VN064019.D (-2191) (-)

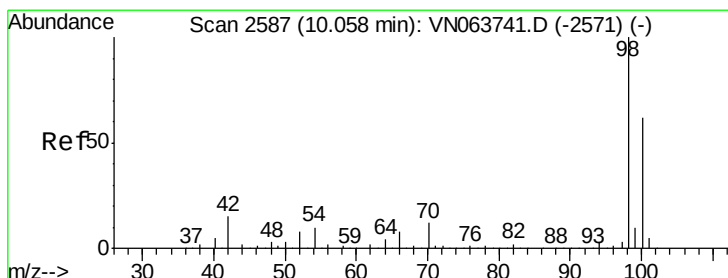
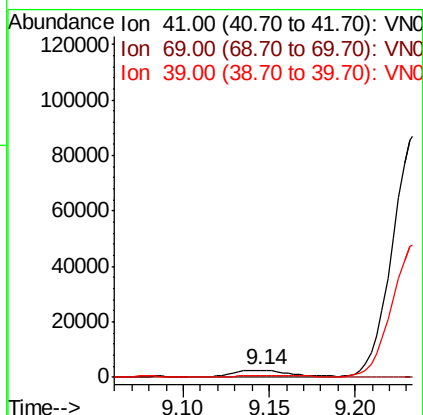
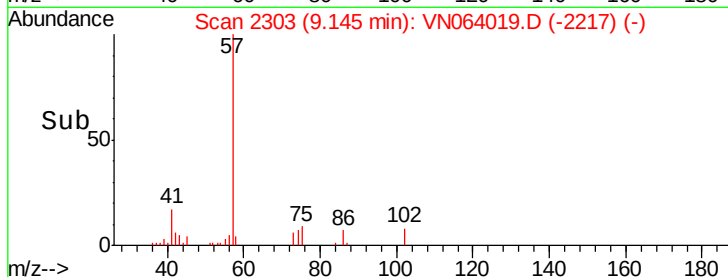
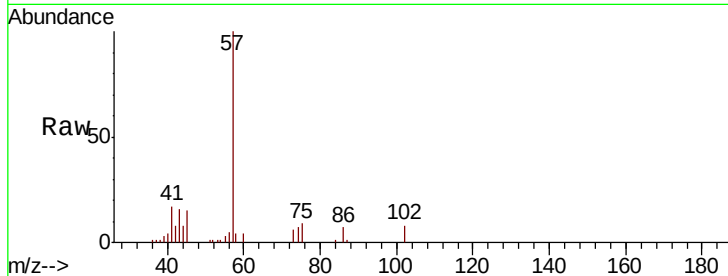




#48
Methvl methacrylate
Concen: 1.314 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN064019.D
Acq: 9 Oct 2020 4:28

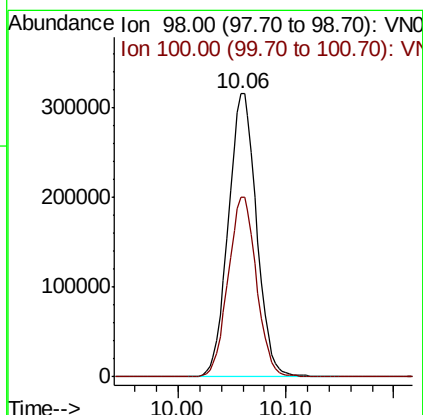
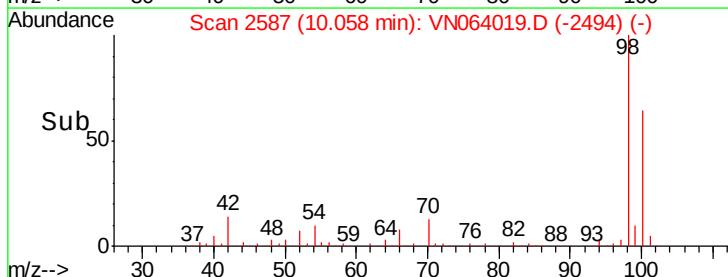
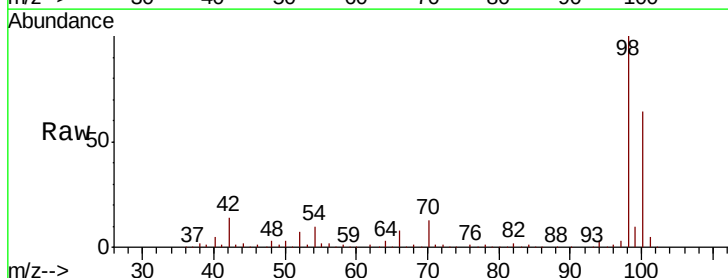
Instrument :
MSVOA_N
ClientSampleId :
PB132189ZHE#08

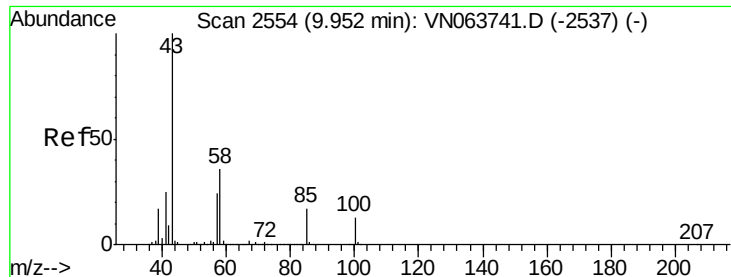
Tot Ion: 41 Resp: 4902
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 0.0 57.5 86.3#



#50
Toluene-d8
Concen: 48.243 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064019.D
Acq: 9 Oct 2020 4:28

Tgt Ion: 98 Resp: 577287
Ion Ratio Lower Upper
98 100
100 63.6 49.8 74.6

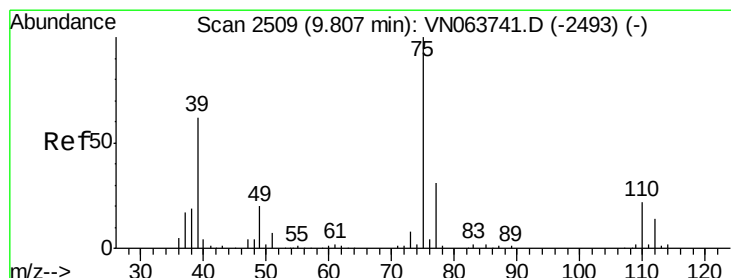
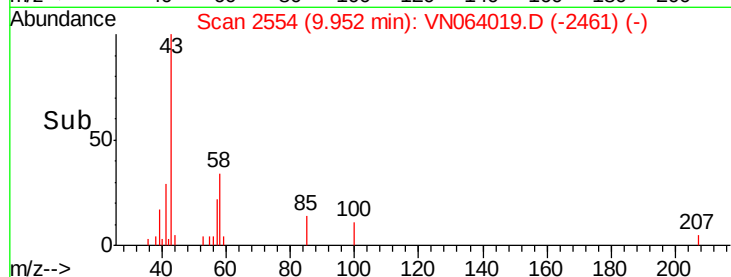
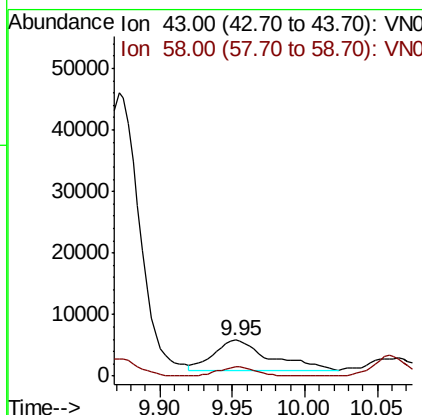
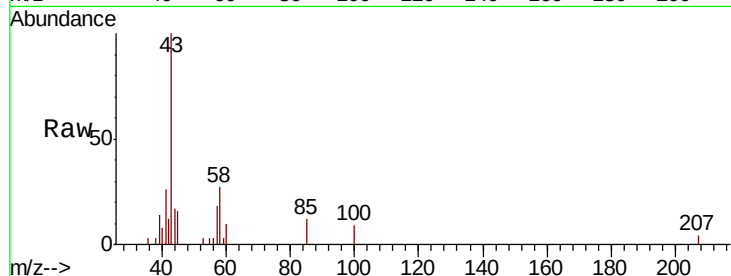




#51
 4-Methyl-2-Pentanone
 Concen: 2.956 ug/l
 RT: 9.95 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN064019.D
 Acq: 9 Oct 2020 4:28

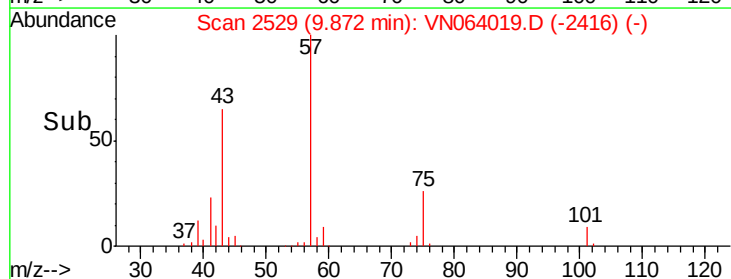
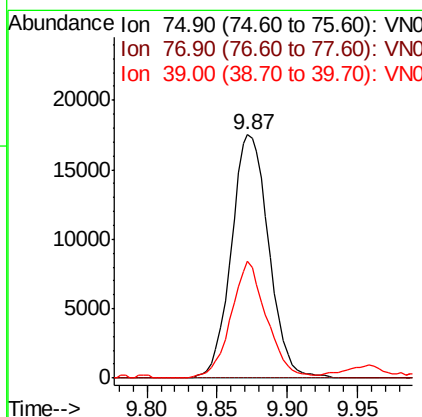
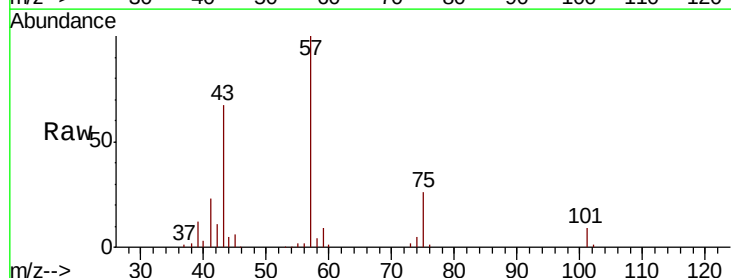
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132189ZHE#08

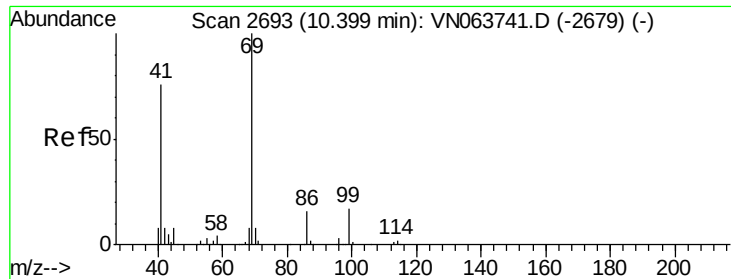
Tot Ion: 43 Resp: 13101
 Ion Ratio Lower Upper
 43 100
 58 20.5 28.4 42.6#



#54
 cis-1,3-Dichloropropene
 Concen: 5.736 ug/l
 RT: 9.87 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN064019.D
 Acq: 9 Oct 2020 4:28

Tgt Ion: 75 Resp: 32501
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 47.9 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.469 ug/l

RT: 10.51 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN064019.D

Acq: 9 Oct 2020 4:28

Instrument :

MSVOA_N

ClientSampleId :

PB132189ZHE#08

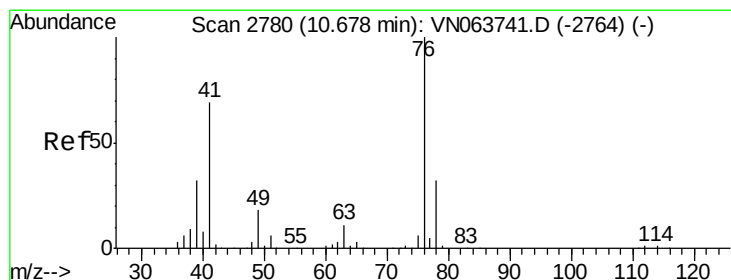
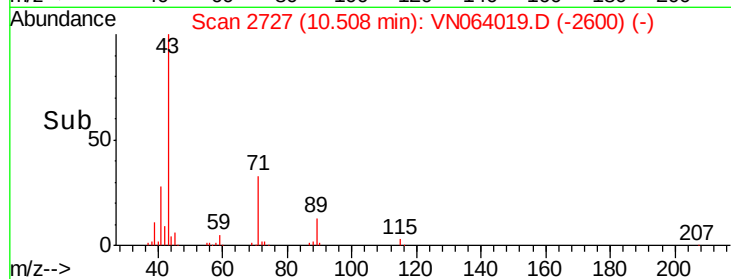
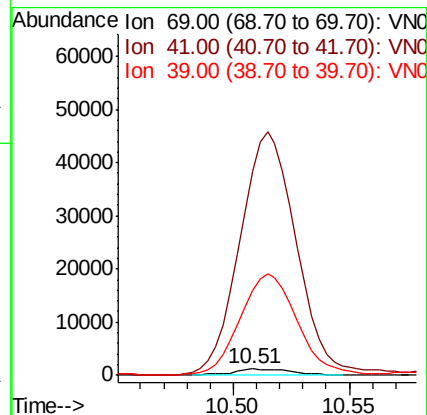
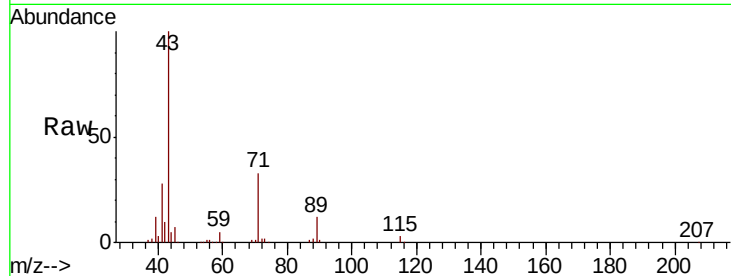
Tot Ion: 69 Resp: 2172

Ion Ratio Lower Upper

69 100

41 3599.6 61.1 91.7#

39 1477.3 42.2 63.4#



#57

1,3-Dichloropropane

Concen: 1.104 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064019.D

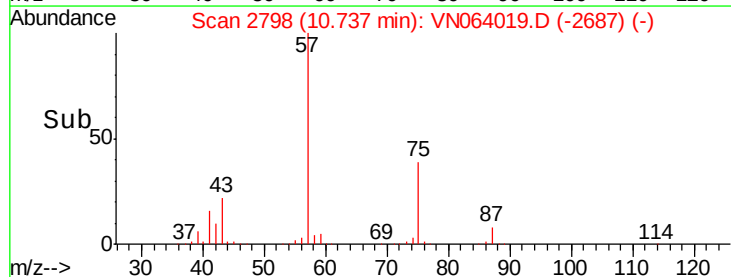
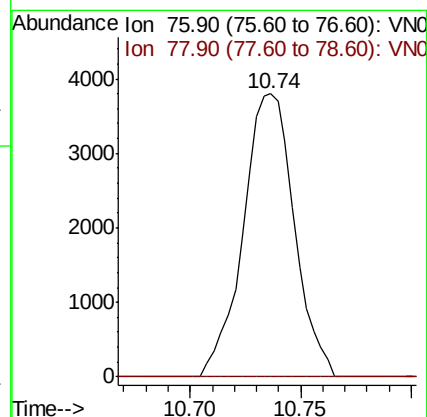
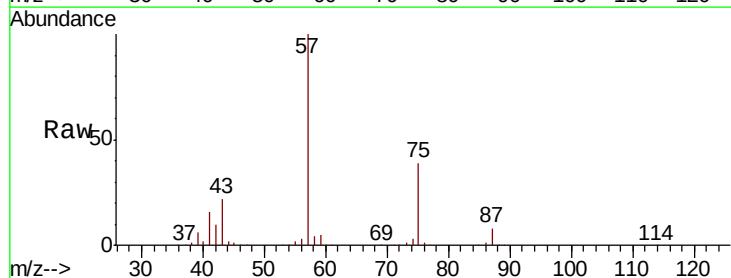
Acq: 9 Oct 2020 4:28

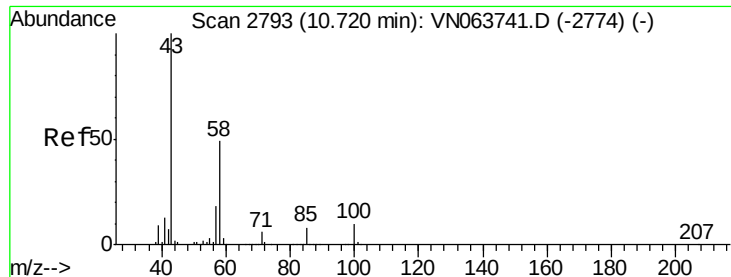
Tgt Ion: 76 Resp: 6100

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#





#59

2-Hexanone

Concen: 30.667 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064019.D

Acq: 9 Oct 2020 4:28

Instrument :

MSVOA_N

ClientSampleId :

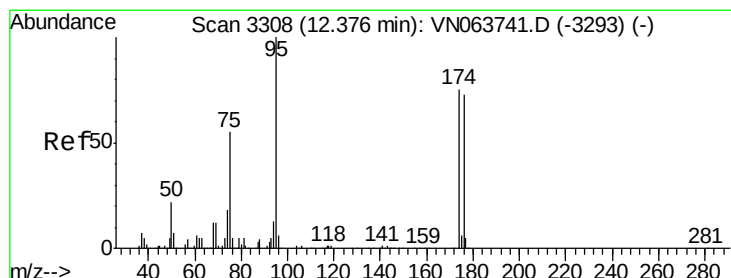
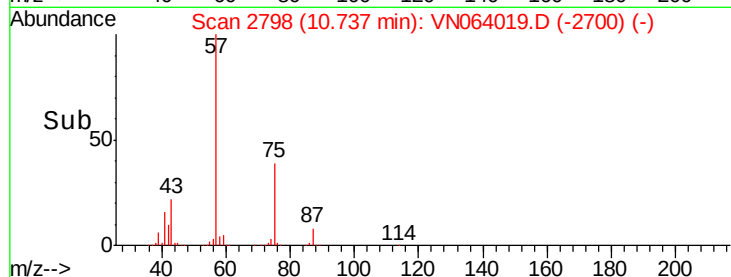
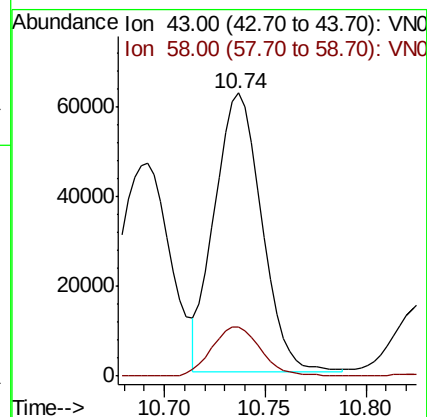
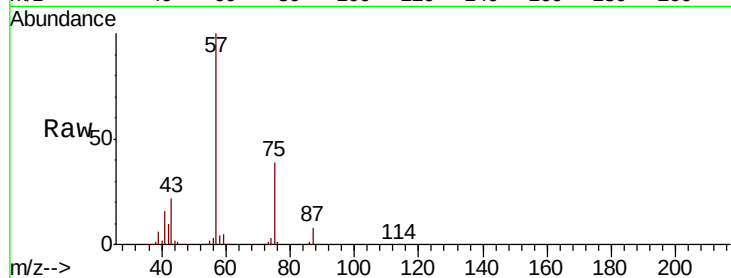
PB132189ZHE#08

Tot Ion: 43 Resp: 100972

Ion Ratio Lower Upper

43 100

58 18.4 24.6 73.8#



#62

4-Bromofluorobenzene

Concen: 47.686 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064019.D

Acq: 9 Oct 2020 4:28

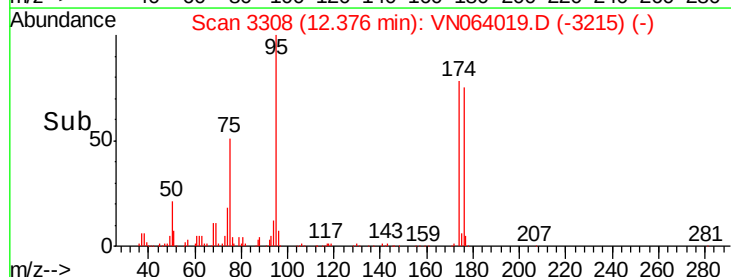
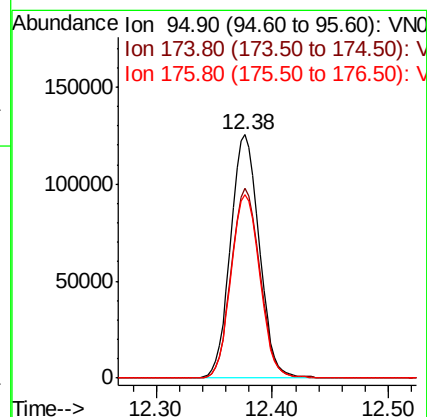
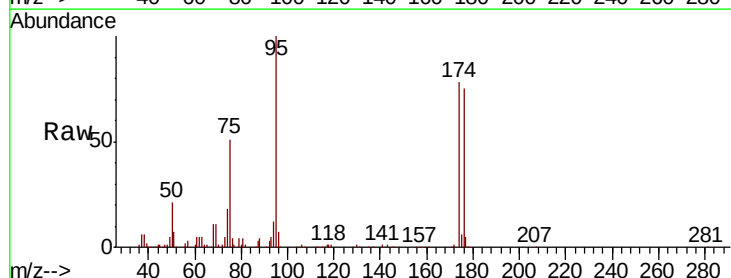
Tgt Ion: 95 Resp: 214501

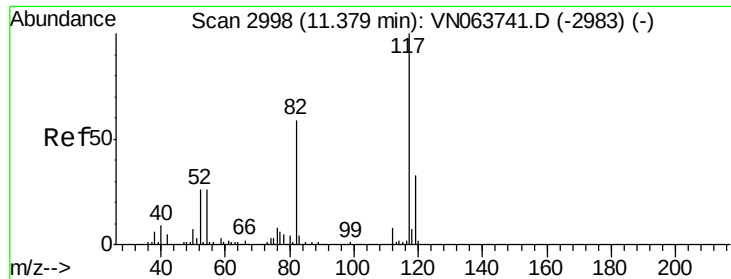
Ion Ratio Lower Upper

95 100

174 77.9 0.0 150.6

176 75.7 0.0 145.4

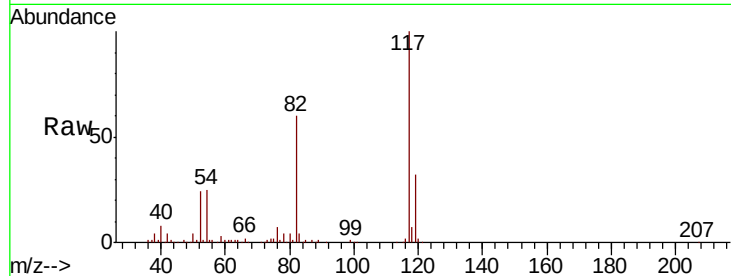




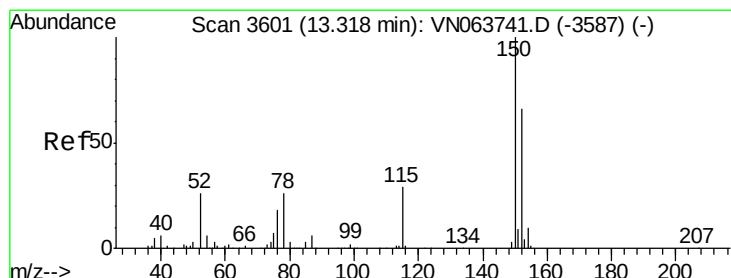
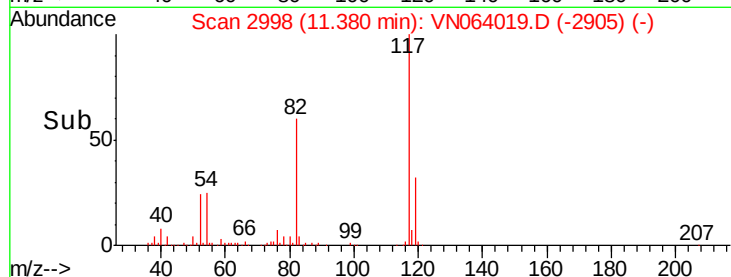
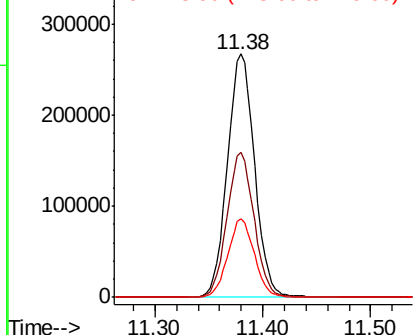
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064019.D
Acq: 9 Oct 2020 4:28

Instrument :
MSVOA_N
ClientSampleId :
PB132189ZHE#08

Tot Ion:117 Resp: 469826
Ion Ratio Lower Upper
117 100
82 59.6 47.4 71.2
119 32.1 26.4 39.6

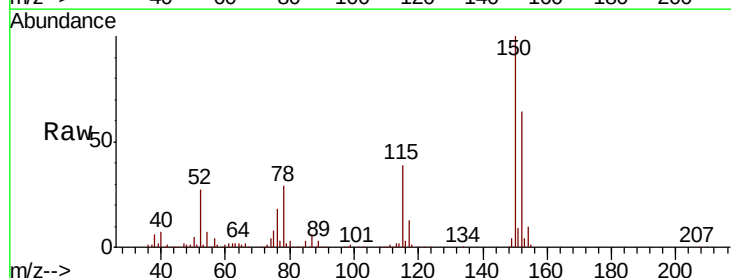


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

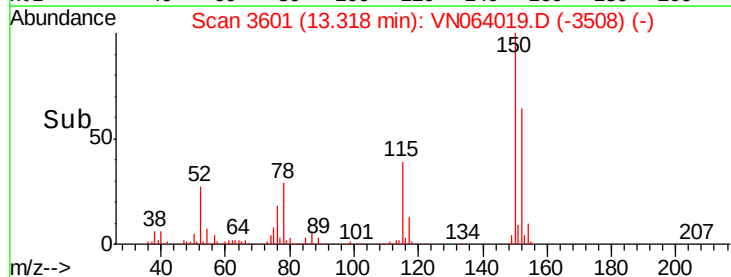
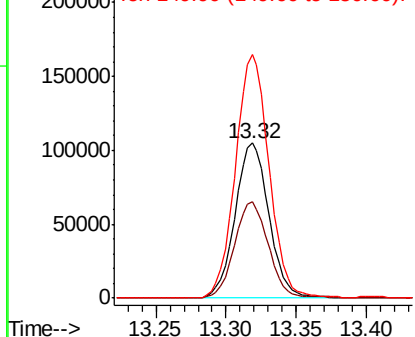


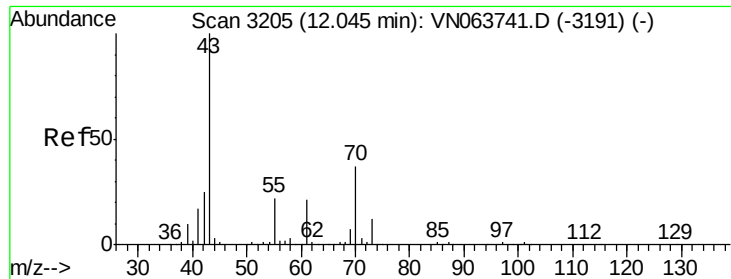
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064019.D
Acq: 9 Oct 2020 4:28

Tgt Ion:152 Resp: 176589
Ion Ratio Lower Upper
152 100
115 62.2 31.3 93.8
150 156.1 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: 2.643 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN064019.D

Acq: 9 Oct 2020 4:28

Instrument :

MSVOA_N

ClientSampleId :

PB132189ZHE#08

Tot Ion: 43 Resp: 2677

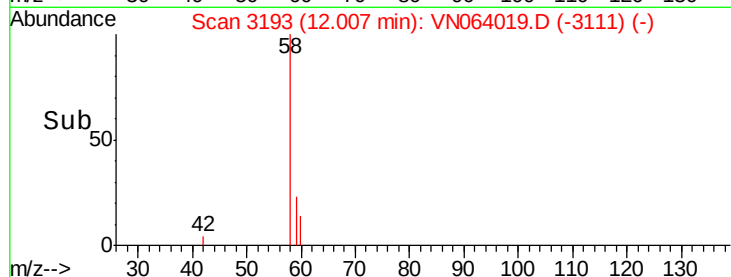
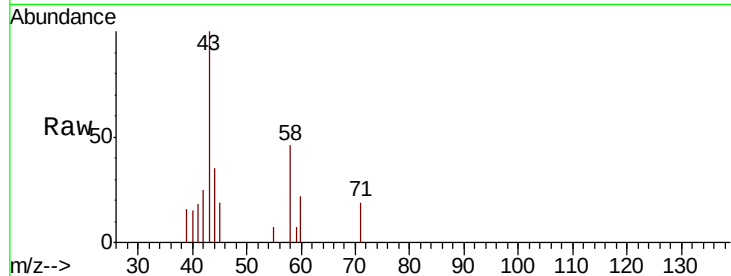
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 15.1 17.9 26.9#

61 0.0 17.0 25.4#

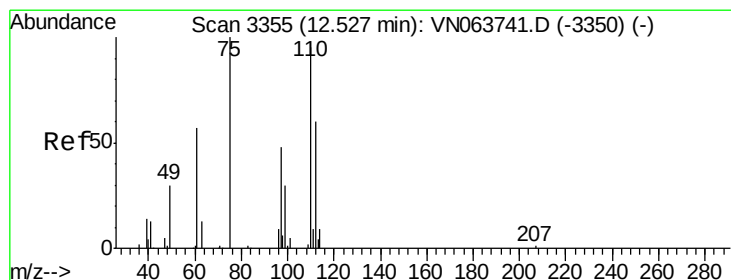
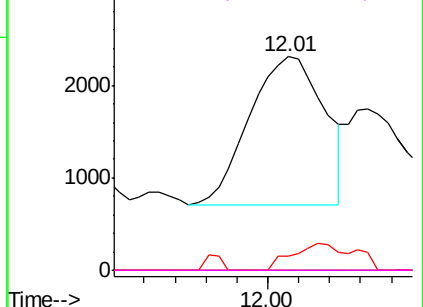


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 29.456 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064019.D

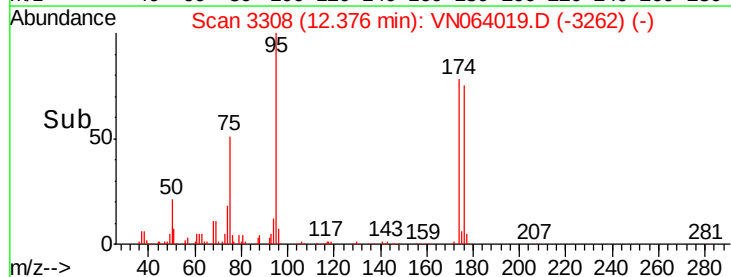
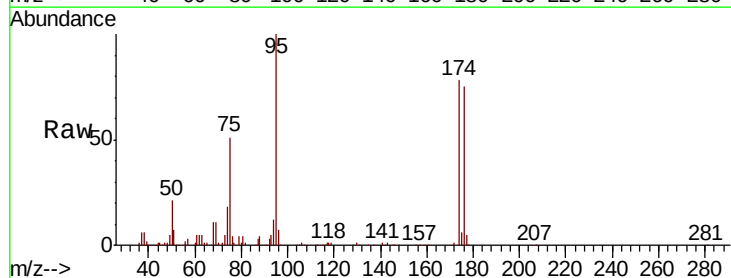
Acq: 9 Oct 2020 4:28

Tgt Ion: 75 Resp: 114663

Ion Ratio Lower Upper

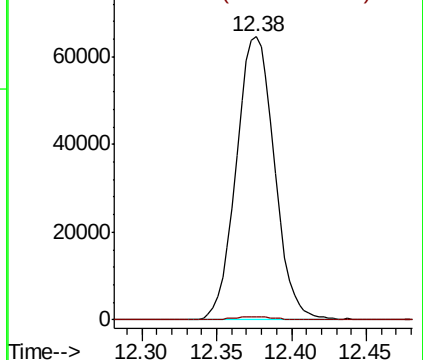
75 100

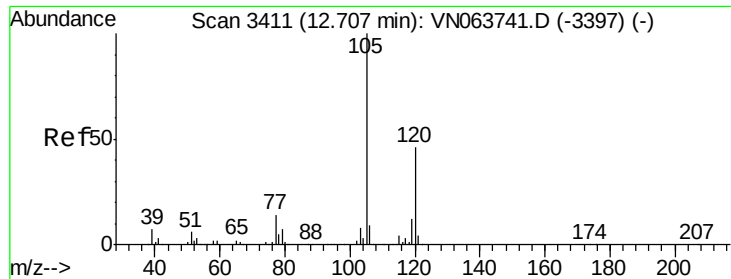
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

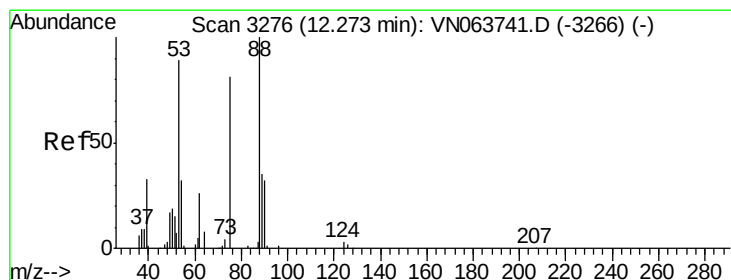
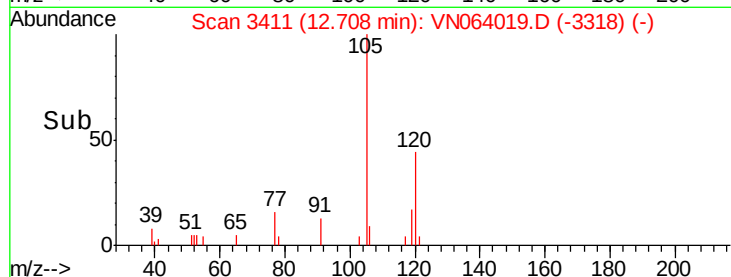
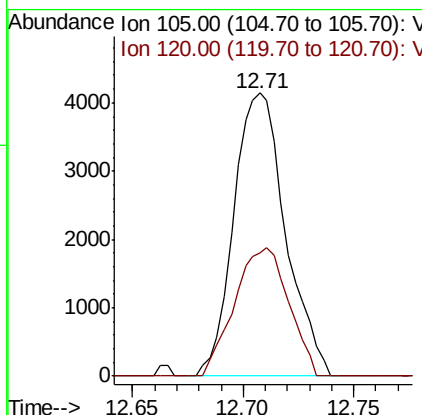
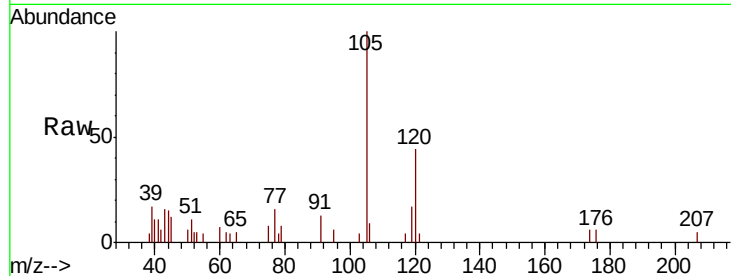




#80
 1,3,5-Trimethylbenzene
 Concen: 0.625 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN064019.D
 Acq: 9 Oct 2020 4:28

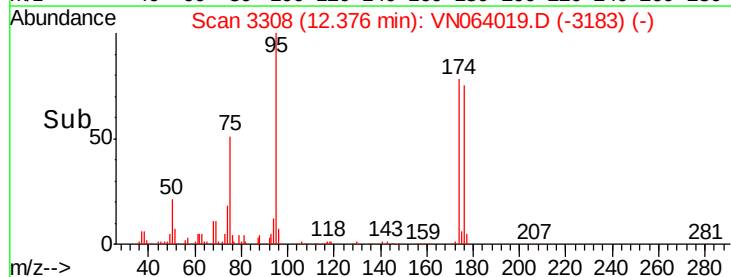
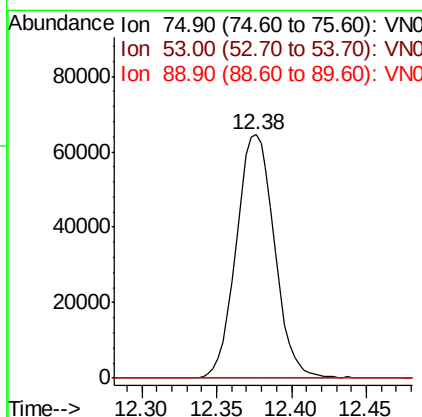
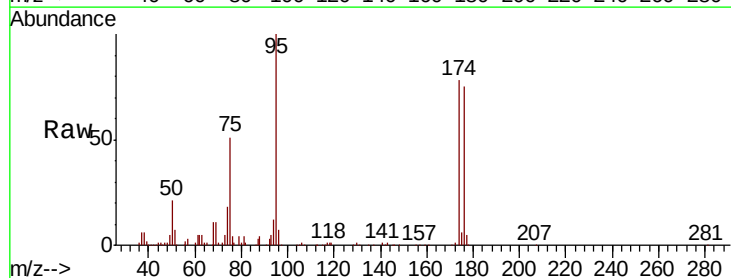
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132189ZHE#08

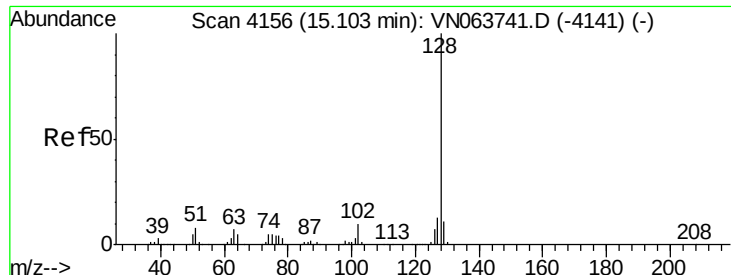
Tot Ion:105 Resp: 6750
 Ion Ratio Lower Upper
 105 100
 120 47.3 23.3 69.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 84.837 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064019.D
 Acq: 9 Oct 2020 4:28

Tgt Ion: 75 Resp: 114663
 Ion Ratio Lower Upper
 75 100
 53 0.1 88.2 132.2#
 89 0.0 36.0 54.0#

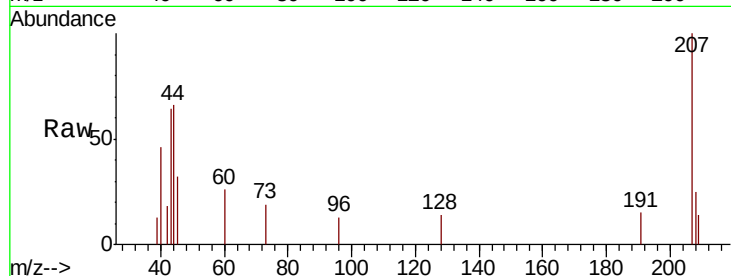




#95
 Naphthalene
 Concen: 1.934 ug/l
 RT: 15.13 min Scan# 4163
 Delta R.T. 0.02 min
 Lab File: VN064019.D
 Acq: 9 Oct 2020 4:28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132189ZHE#08

Tot 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

