

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100920\
 Data File : VN064061.D
 Acq On : 10 Oct 2020 2:01
 Operator : JC/MD
 Sample : PB132229ZHE#15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132229ZHE#15

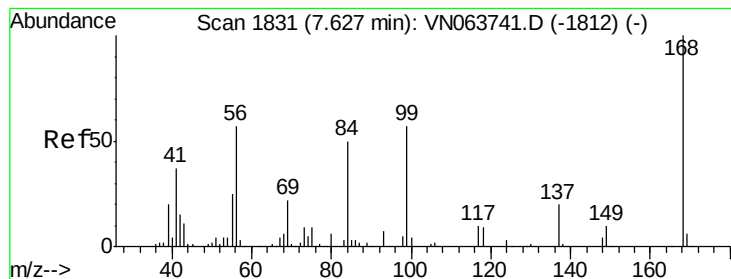
Quant Time: Oct 10 02:27:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	212507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	418506	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	433478	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	164206	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	189687	54.03	ug/l	0.00
Spiked Amount			Recovery	=	108.06%	
35) Dibromofluoromethane	7.55	113	136019	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
50) Toluene-d8	10.06	98	535544	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
62) 4-Bromofluorobenzene	12.38	95	200690	48.50	ug/l	0.00
Spiked Amount			Recovery	=	97.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	127	0.328	ug/l #	71
16) Acetone	3.78	43	28166	26.062	ug/l	98
17) Carbon Disulfide	4.01	76	290	0.750	ug/l #	76
18) Methyl Acetate	4.28	43	1349	0.481	ug/l	92
20) Methylene Chloride	4.50	84	27241	11.081	ug/l	96
25) 2-Butanone	6.79	43	684	0.446	ug/l #	38
29) Tetrahydrofuran	7.18	42	488	0.475	ug/l #	36
31) Cyclohexane	7.63	56	5952	1.460	ug/l #	35
36) 1,1-Dichloropropene	7.63	75	19317	4.556	ug/l #	50
38) Carbon Tetrachloride	7.62	117	23903	5.028	ug/l #	15
43) Isopropyl Acetate	8.13	43	73080	10.518	ug/l	99
48) Methyl methacrylate	9.14	41	4968	1.447	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	6542	1.604	ug/l #	85
54) cis-1,3-Dichloropropene	9.87	75	28381	5.444	ug/l #	69
56) Ethyl methacrylate	10.52	69	2145	0.504	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5402	1.063	ug/l #	43
59) 2-Hexanone	10.74	43	89659	29.600	ug/l #	54
74) N-amyl acetate	12.00	43	1912	2.544	ug/l #	54
76) 1,2,3-Trichloropropane	12.38	75	112183	30.992	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4197	0.418	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.38	75	112183	89.262	ug/l #	6

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064061.D

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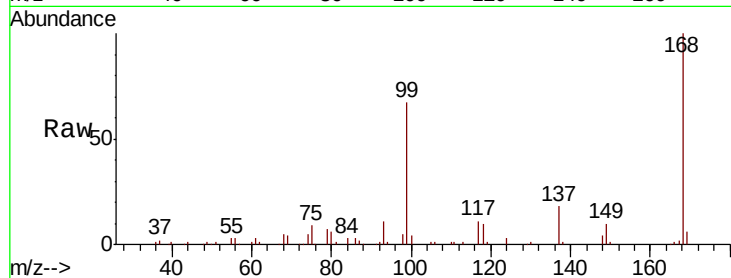
PB132229ZHE#15

Tot Ion:168 Resp: 212507

Ion Ratio Lower Upper

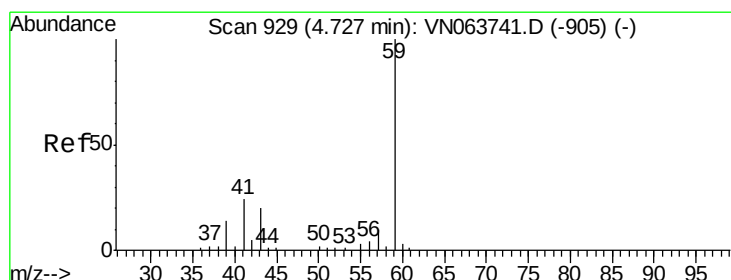
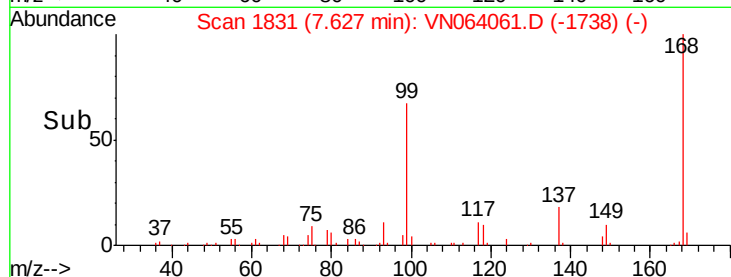
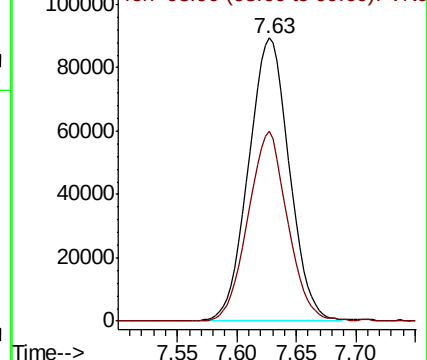
168 100

99 67.2 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.328 ug/l

RT: 4.72 min Scan# 926

Delta R.T. -0.01 min

Lab File: VN064061.D

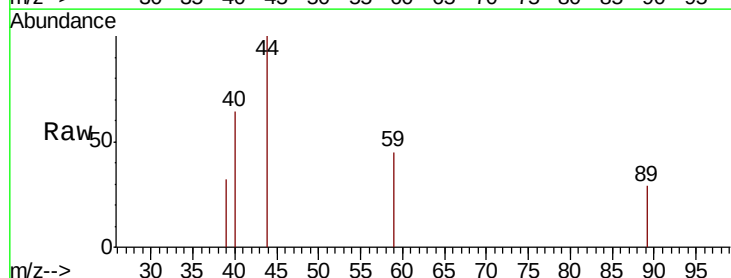
Acq: 10 Oct 2020 2:01

Tgt Ion: 59 Resp: 127

Ion Ratio Lower Upper

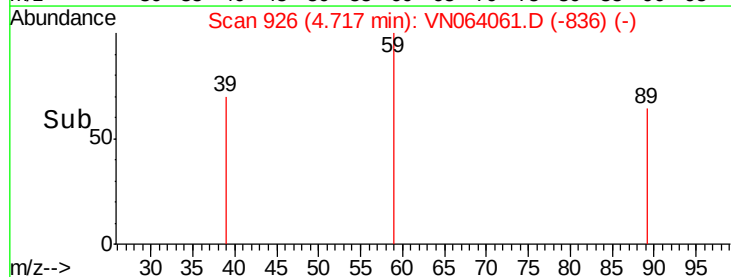
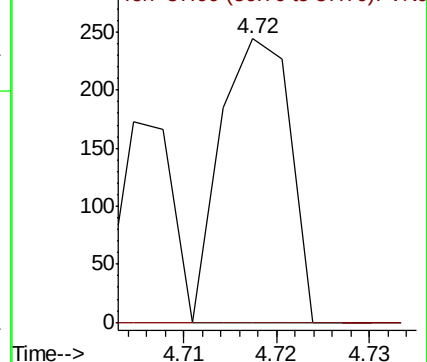
59 100

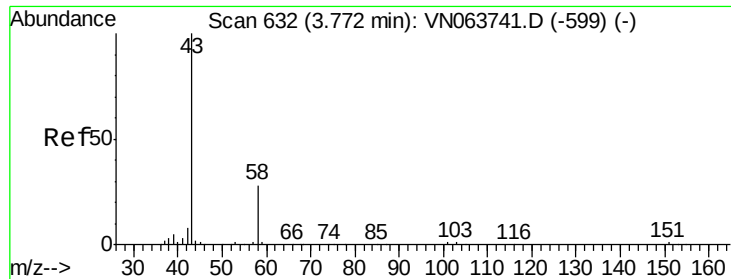
57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 26.062 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064061.D

Acq: 10 Oct 2020 2:01

Instrument :

MSVOA_N

ClientSampleId :

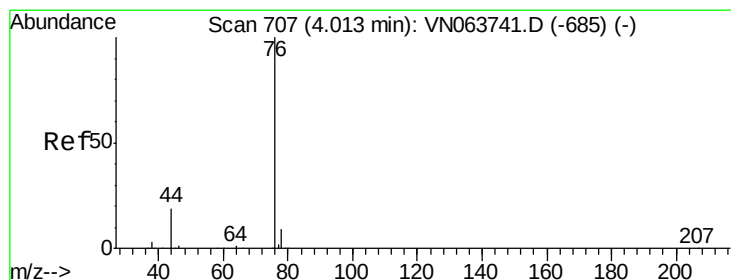
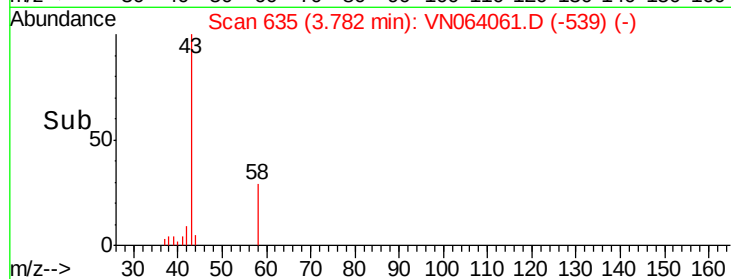
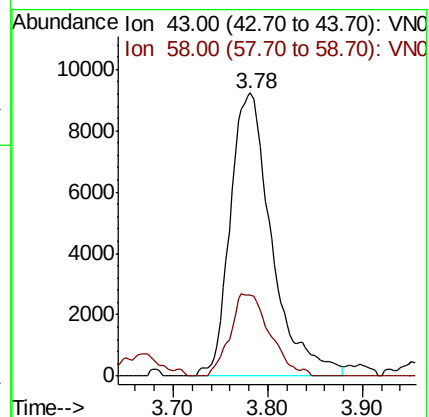
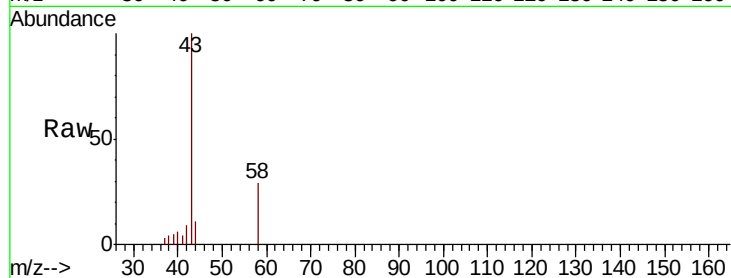
PB132229ZHE#15

Tot Ion: 43 Resp: 28166

Ion Ratio Lower Upper

43 100

58 28.7 22.3 33.5



#17

Carbon Disulfide

Concen: 0.750 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN064061.D

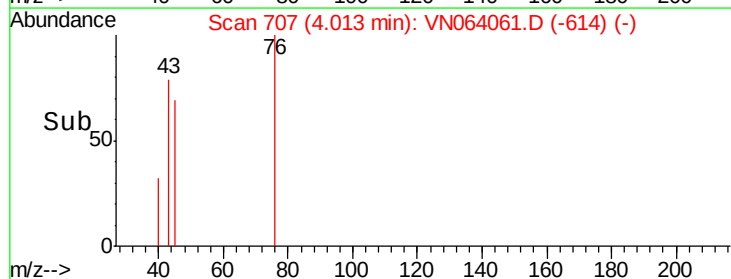
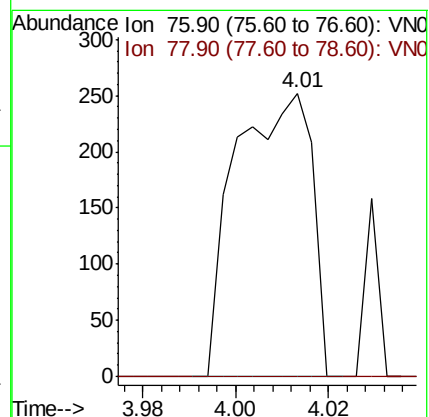
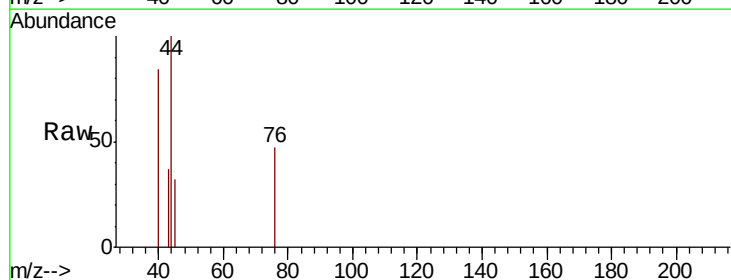
Acq: 10 Oct 2020 2:01

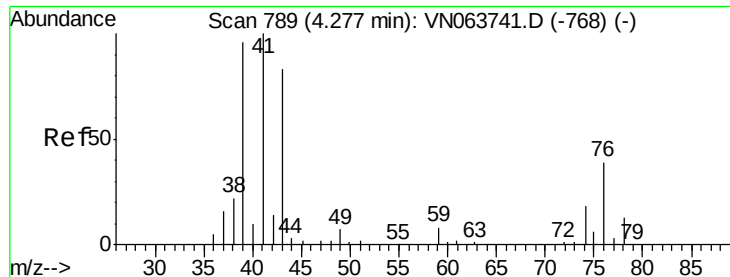
Tgt Ion: 76 Resp: 290

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#

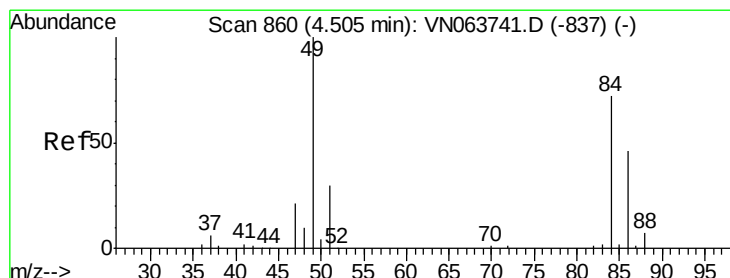
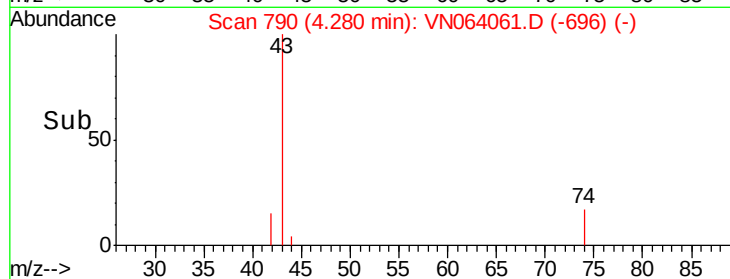
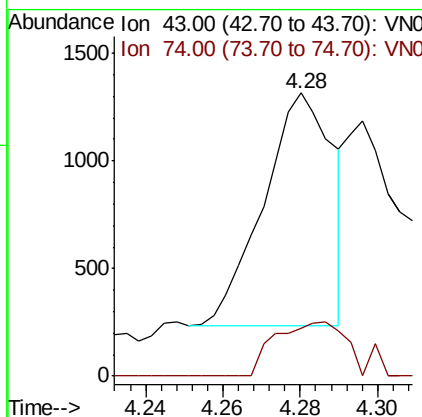
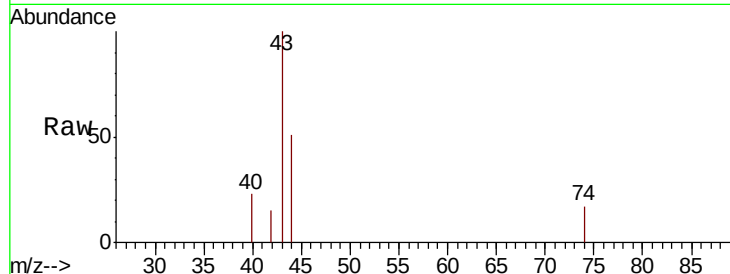




#18
Methvl Acetate
Concen: 0.481 ug/l
RT: 4.28 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN064061.D
Acq: 10 Oct 2020 2:01

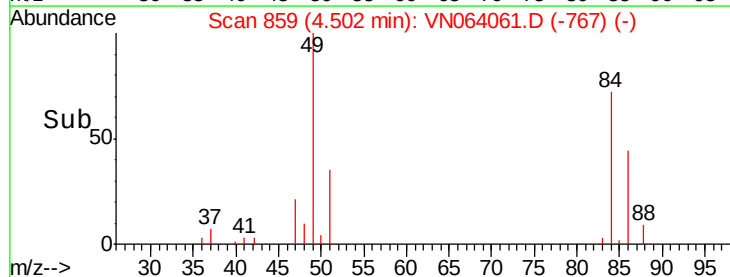
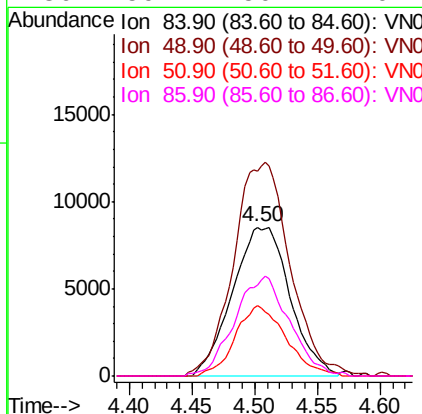
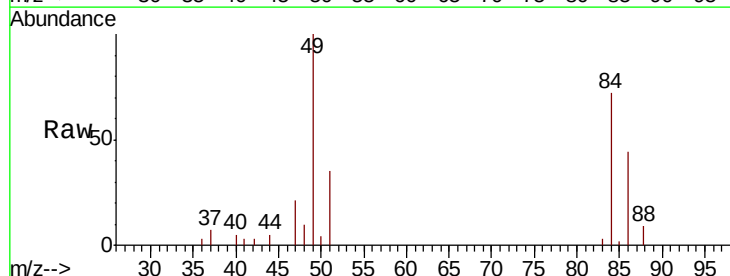
Instrument :
MSVOA_N
ClientSampleId :
PB132229ZHE#15

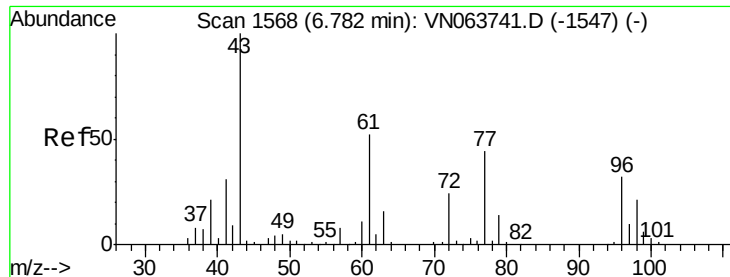
Tot Ion: 43 Resp: 1349
Ion Ratio Lower Upper
43 100
74 25.6 17.4 26.2



#20
Methylene Chloride
Concen: 11.081 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN064061.D
Acq: 10 Oct 2020 2:01

Tgt Ion: 84 Resp: 27241
Ion Ratio Lower Upper
84 100
49 135.8 110.4 165.6
51 47.7 33.3 49.9
86 59.4 50.7 76.1





#25

2-Butanone

Concen: 0.446 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN064061.D

Acq: 10 Oct 2020 2:01

Instrument :

MSVOA_N

ClientSampleId :

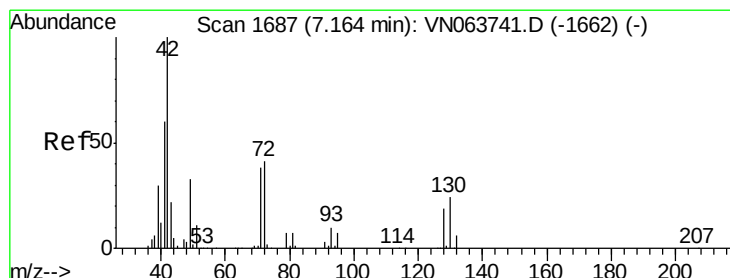
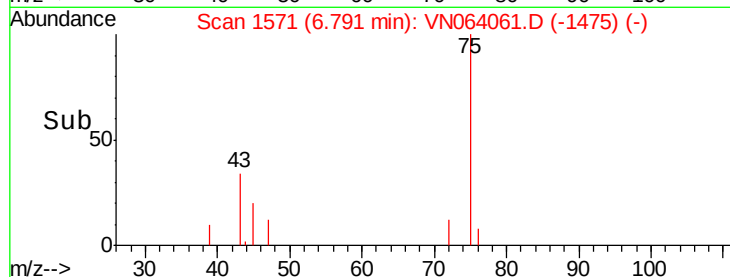
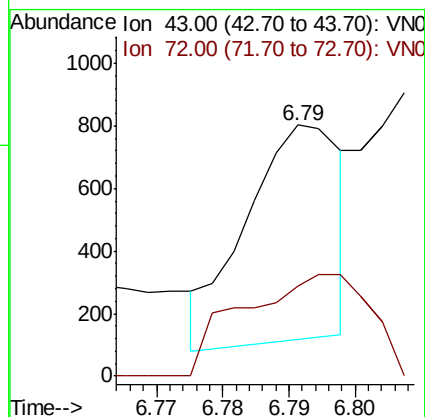
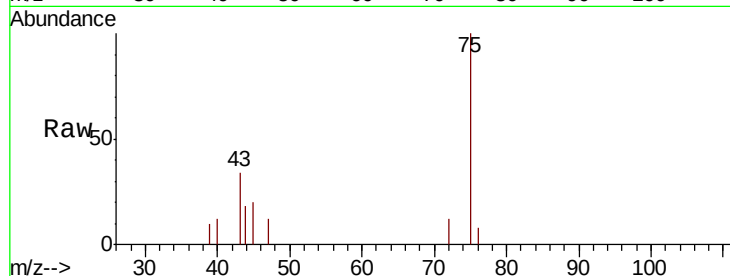
PB132229ZHE#15

Tot Ion: 43 Resp: 684

Ion Ratio Lower Upper

43 100

72 54.5 19.3 28.9#



#29

Tetrahydrofuran

Concen: 0.475 ug/l

RT: 7.18 min Scan# 1693

Delta R.T. 0.02 min

Lab File: VN064061.D

Acq: 10 Oct 2020 2:01

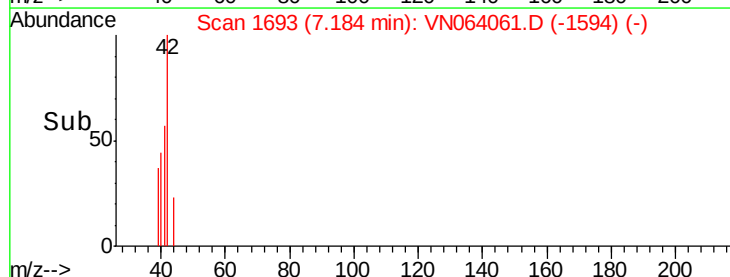
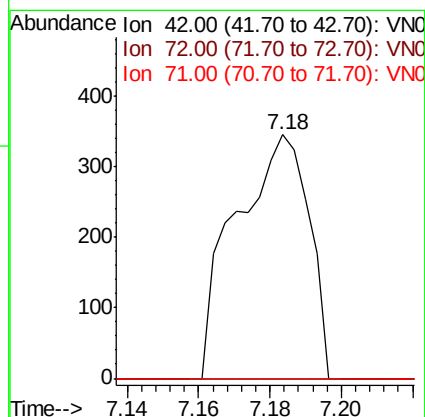
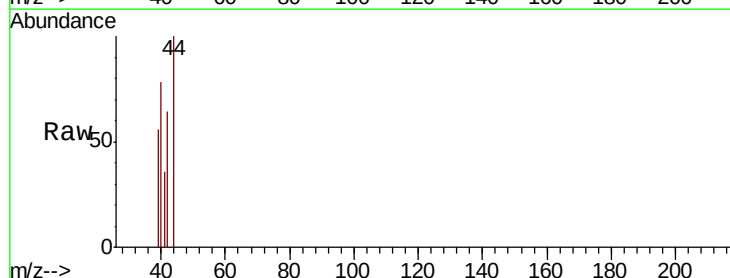
Tgt Ion: 42 Resp: 488

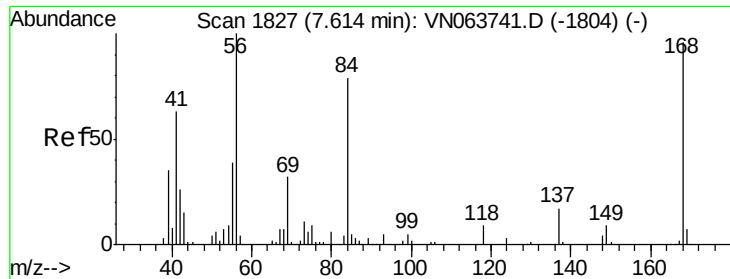
Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

71 0.0 30.6 45.8#

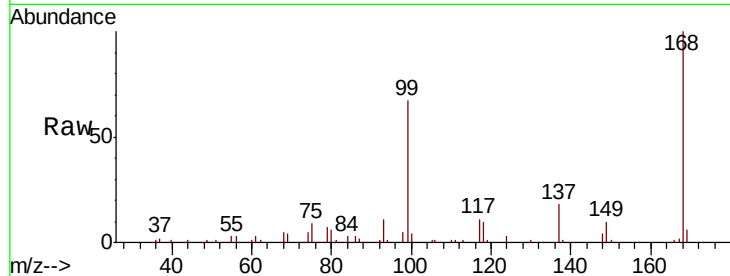




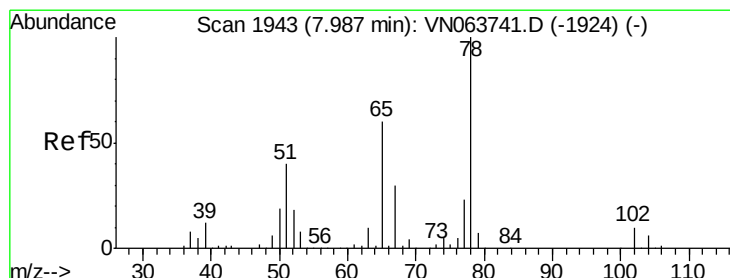
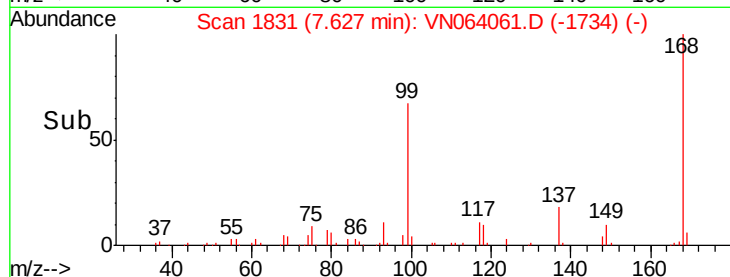
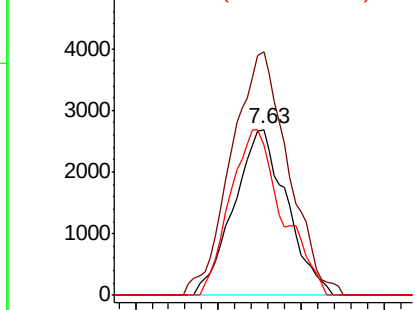
#31
Cyclohexane
Concen: 1.460 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN064061.D
Acq: 10 Oct 2020 2:01

Instrument :
MSVOA_N
ClientSampleId :
PB132229ZHE#15

Tot Ion: 56 Resp: 5952
Ion Ratio Lower Upper
56 100
69 140.8 25.4 38.2#
84 90.5 63.3 94.9

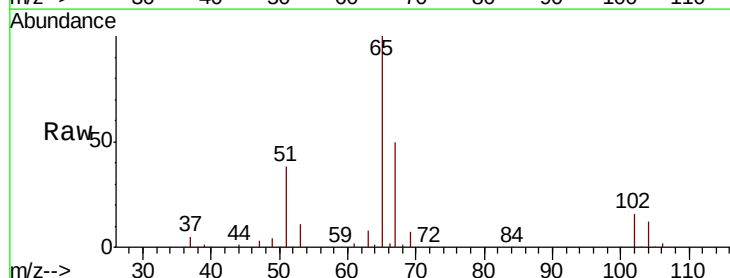


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

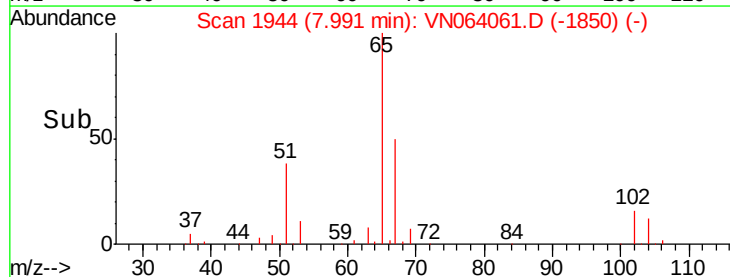
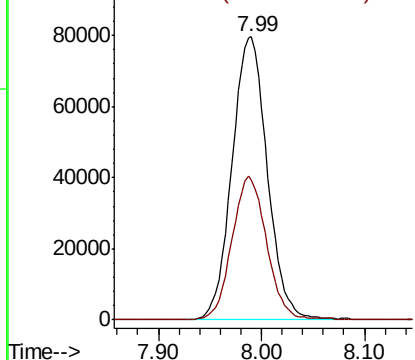


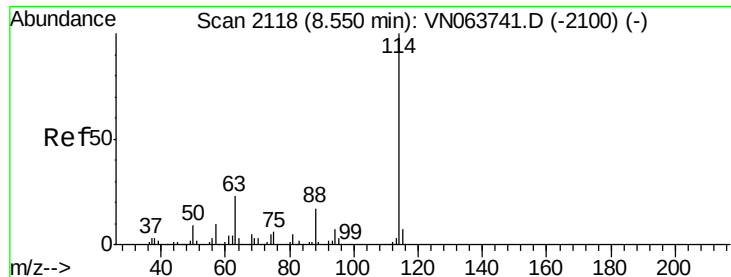
#33
1,2-Dichloroethane-d4
Concen: 54.030 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN064061.D
Acq: 10 Oct 2020 2:01

Tgt Ion: 65 Resp: 189687
Ion Ratio Lower Upper
65 100
67 49.7 0.0 99.6



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

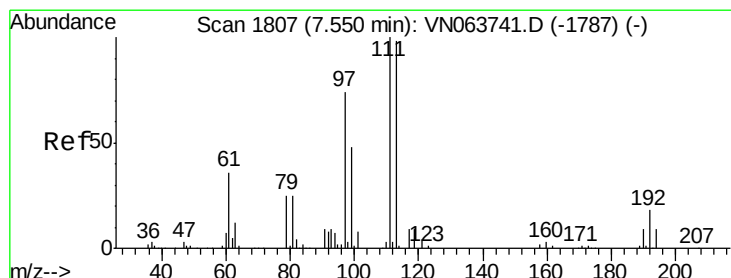
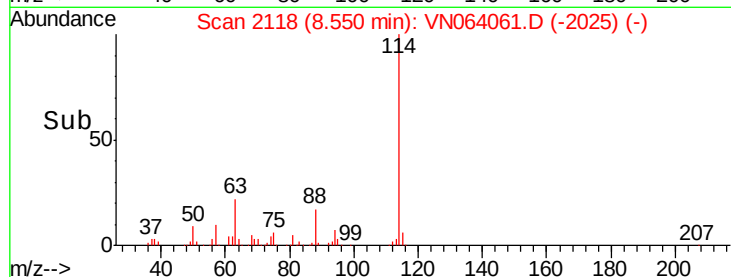
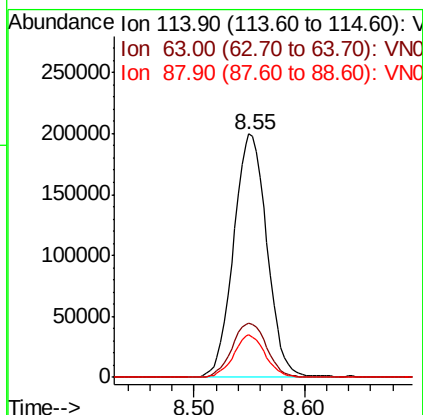
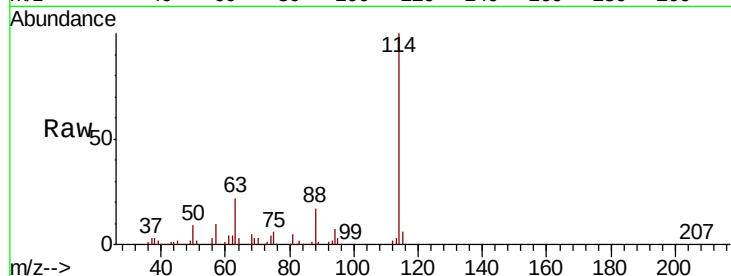




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064061.D
 Acq: 10 Oct 2020 2:01

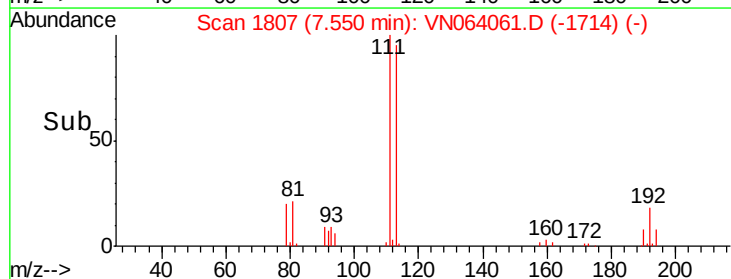
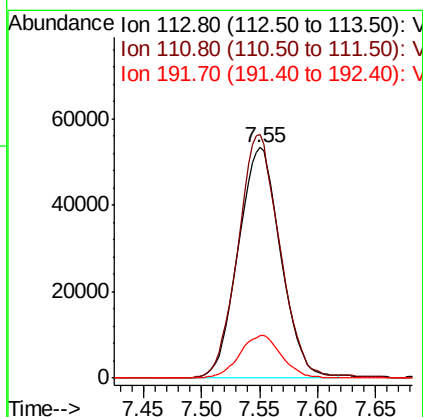
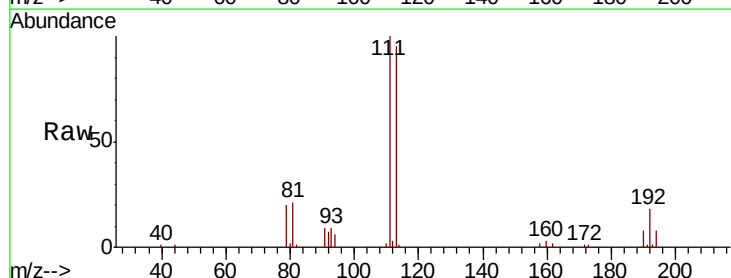
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 MSVOA_N
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 PB132229ZHE#15

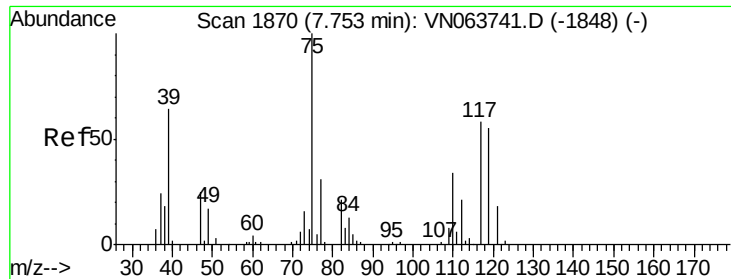
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	45.0
88	17.3	0.0	34.0



#35
 Dibromofluoromethane
 Concen: 46.840 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064061.D
 Acq: 10 Oct 2020 2:01

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.8	122.8
192	18.3	14.2	21.2

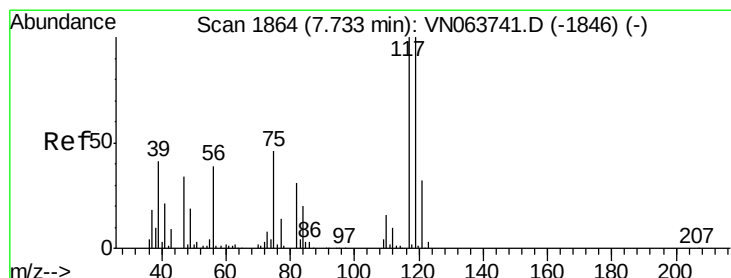
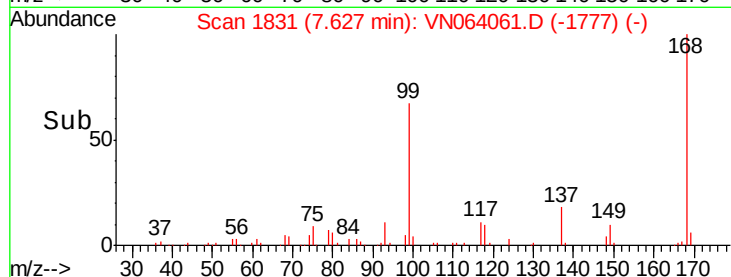
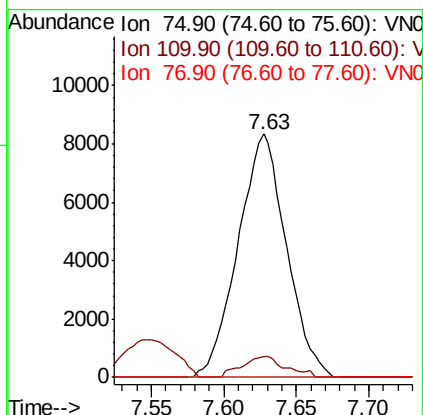
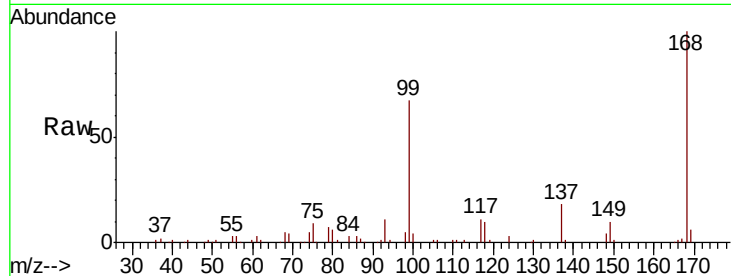




#36
 1,1-Dichloropropene
 Concen: 4.556 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064061.D
 Acq: 10 Oct 2020 2:01

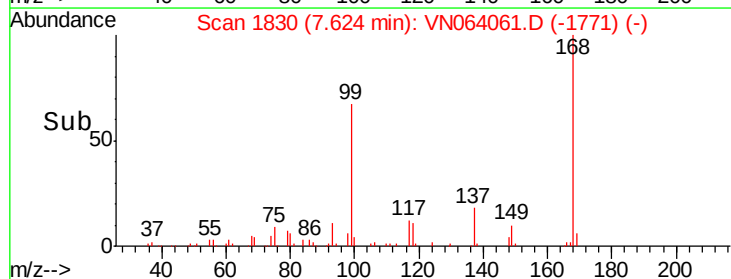
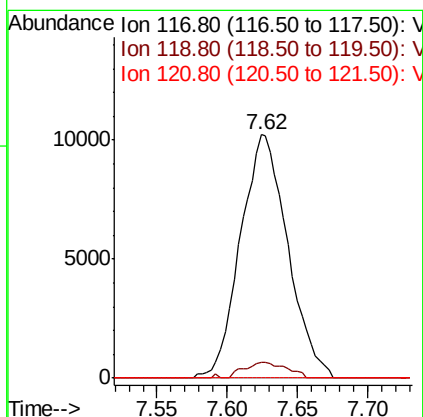
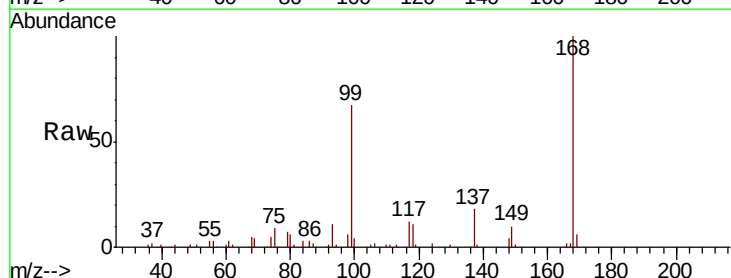
Instrument :
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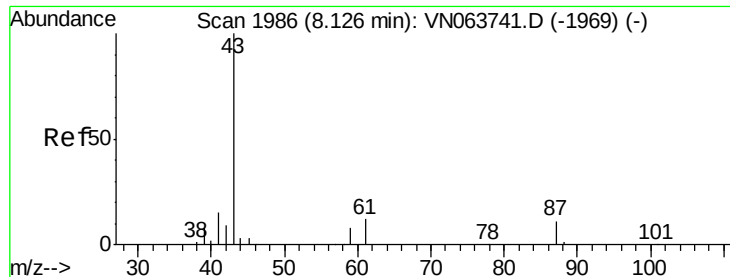
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.7	16.9	50.6#
77	0.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 5.028 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN064061.D
 Acq: 10 Oct 2020 2:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.4	80.1	120.1#
121	0.0	25.7	38.5#





#43

Isopropyl Acetate

Concen: 10.518 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064061.D

Acq: 10 Oct 2020 2:01

Instrument :

MSVOA_N

ClientSampleId :

PB132229ZHE#15

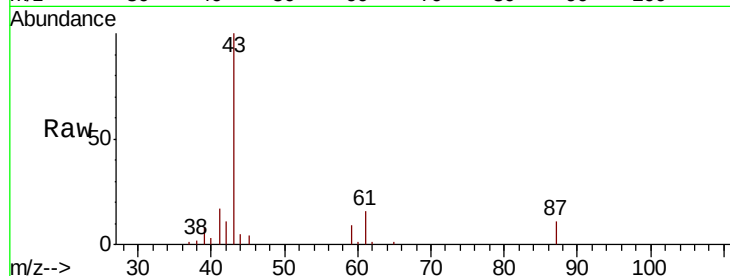
Tot Ion: 43 Resp: 73080

Ion Ratio Lower Upper

43 100

61 18.5 14.2 21.4

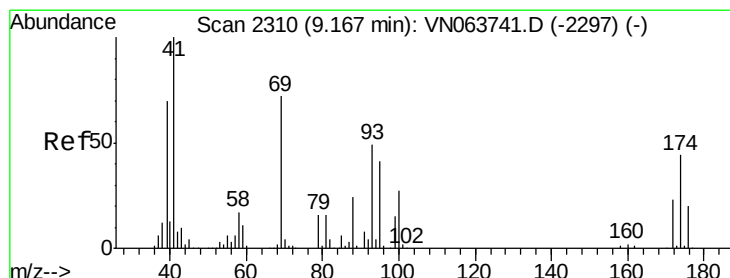
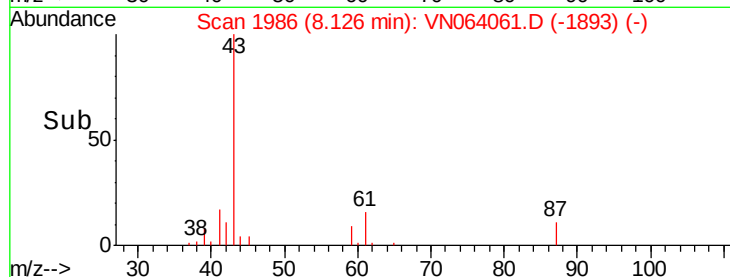
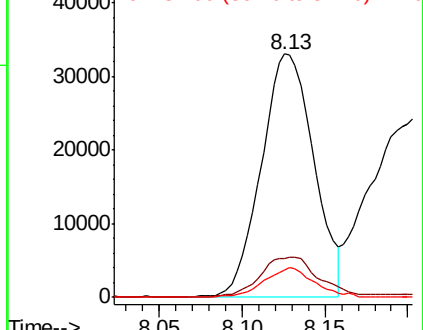
87 11.6 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.447 ug/l

RT: 9.14 min Scan# 2302

Delta R.T. -0.03 min

Lab File: VN064061.D

Acq: 10 Oct 2020 2:01

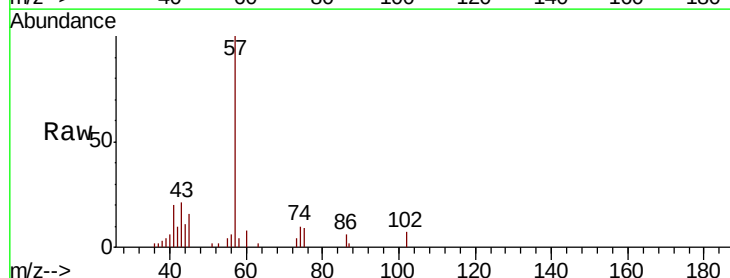
Tgt Ion: 41 Resp: 4968

Ion Ratio Lower Upper

41 100

69 0.0 60.9 91.3#

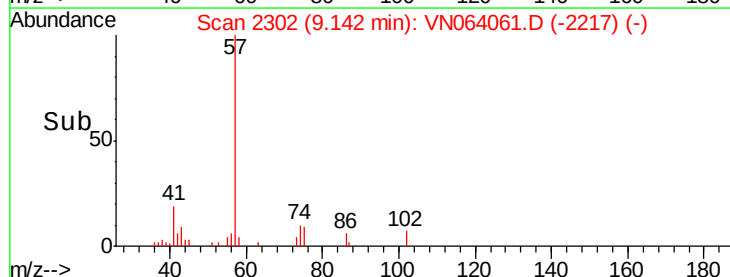
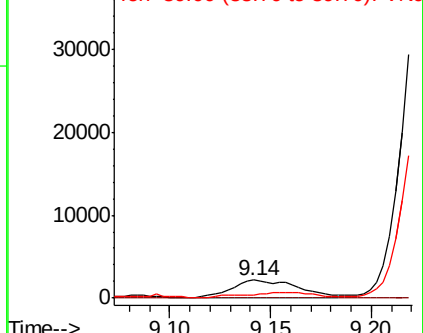
39 0.0 57.5 86.3#

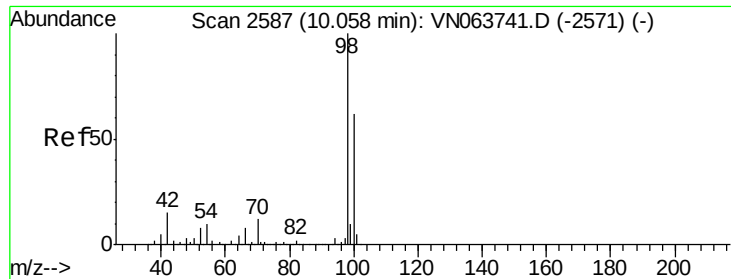


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

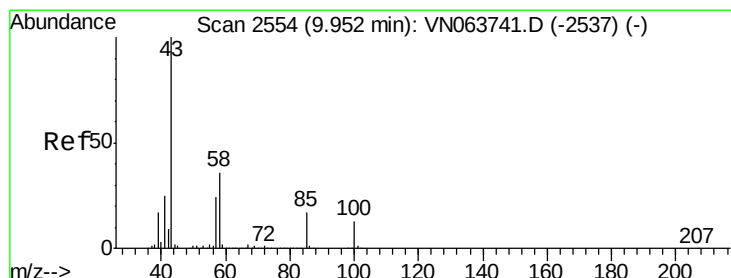
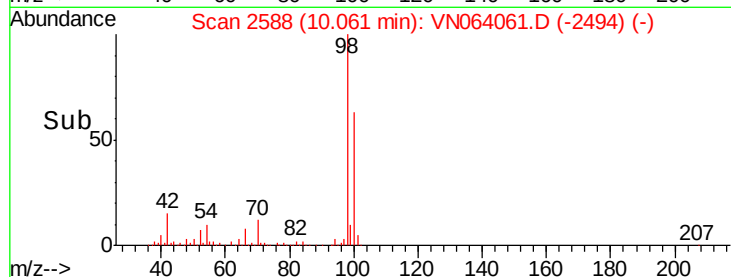
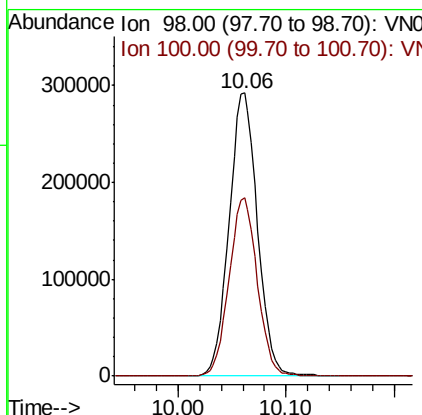
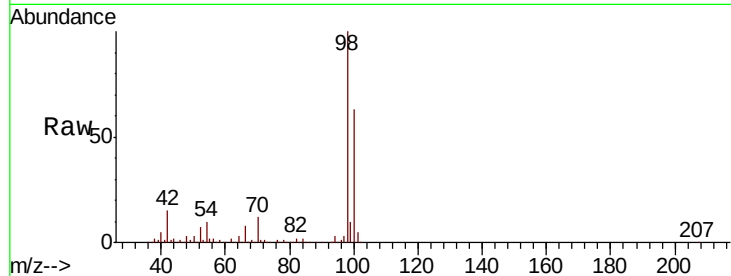




#50
Toluene-d8
Concen: 48.649 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064061.D
Acq: 10 Oct 2020 2:01

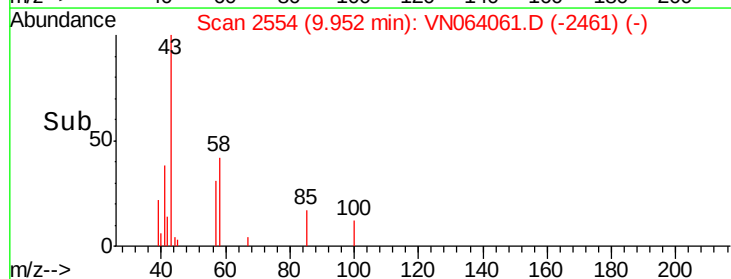
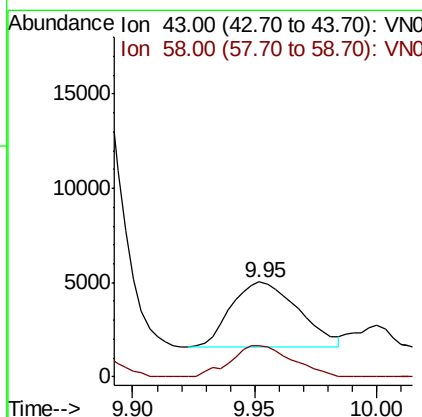
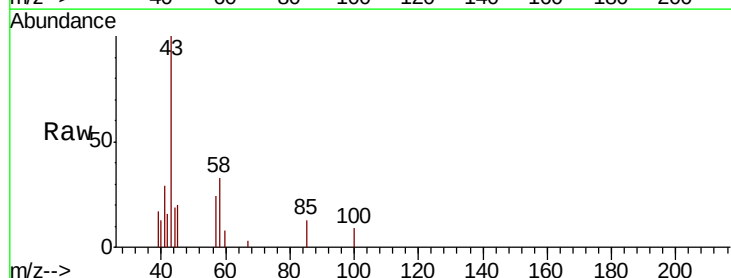
Instrument :
MSVOA_N
ClientSampleId :
PB132229ZHE#15

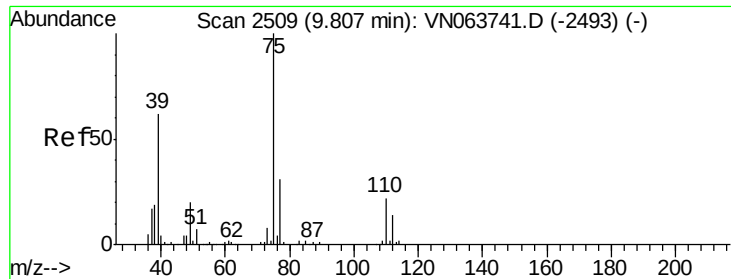
Tot Ion: 98 Resp: 535544
Ion Ratio Lower Upper
98 100
100 62.8 49.8 74.6



#51
4-Methyl-2-Pentanone
Concen: 1.604 ug/l
RT: 9.95 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN064061.D
Acq: 10 Oct 2020 2:01

Tgt Ion: 43 Resp: 6542
Ion Ratio Lower Upper
43 100
58 44.3 28.4 42.6#





#54

cis-1,3-Dichloropropene

Concen: 5.444 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064061.D

Acq: 10 Oct 2020 2:01

Instrument :

MSVOA_N

ClientSampleId :

PB132229ZHE#15

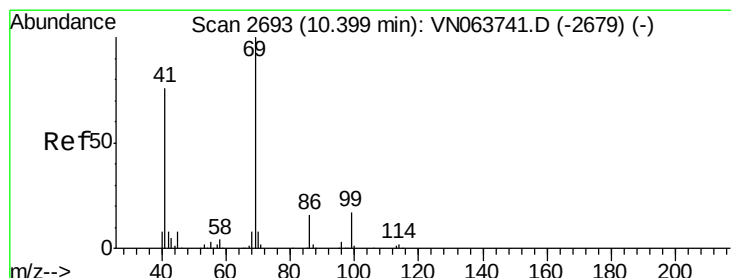
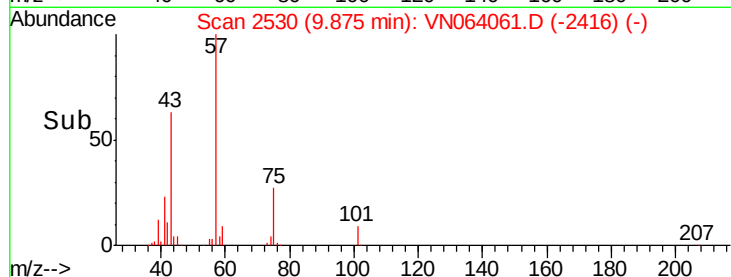
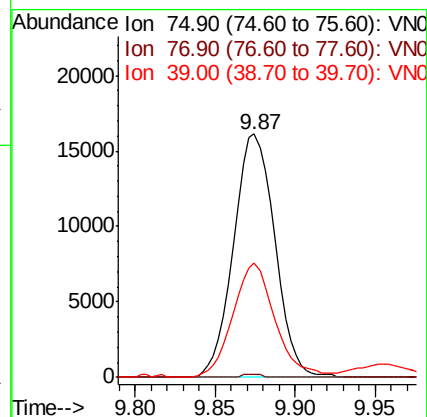
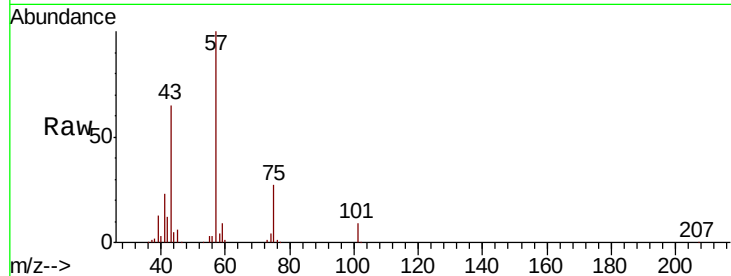
Tot Ion: 75 Resp: 28381

Ion Ratio Lower Upper

75 100

77 1.2 24.6 36.8#

39 46.8 49.7 74.5#



#56

Ethyl methacrylate

Concen: 0.504 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN064061.D

Acq: 10 Oct 2020 2:01

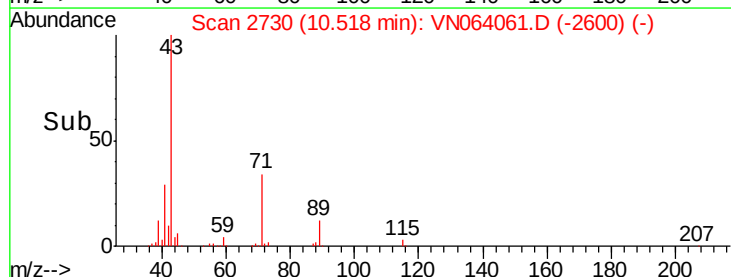
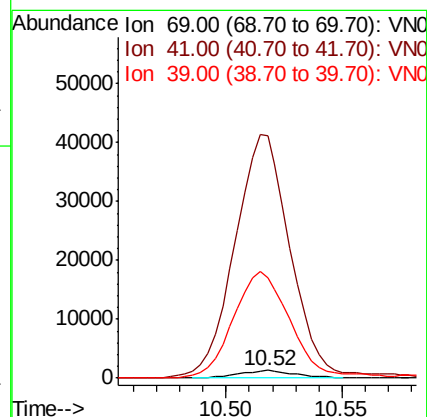
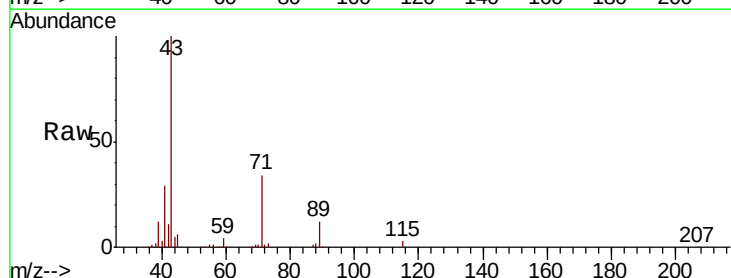
Tgt Ion: 69 Resp: 2145

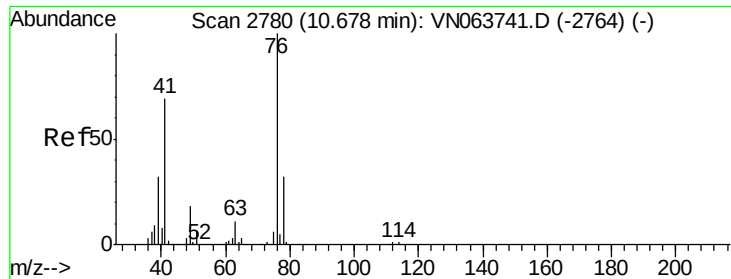
Ion Ratio Lower Upper

69 100

41 3243.8 61.1 91.7#

39 1451.1 42.2 63.4#





#57

1,3-Dichloropropane

Concen: 1.063 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN064061.D

Acq: 10 Oct 2020 2:01

Instrument :

MSVOA_N

ClientSampleId :

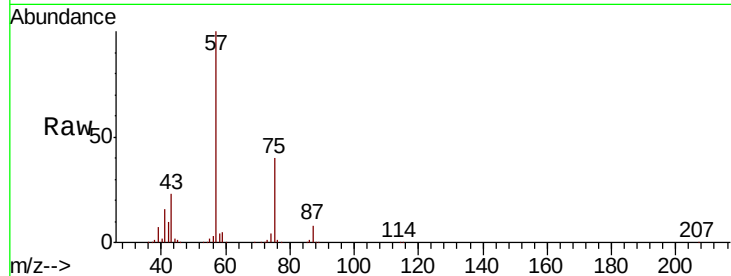
PB132229ZHE#15

Tot Ion: 76 Resp: 5402

Ion Ratio Lower Upper

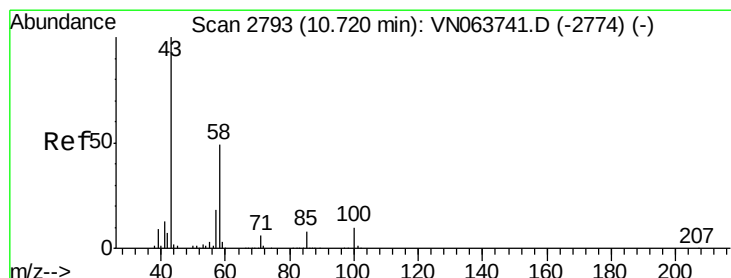
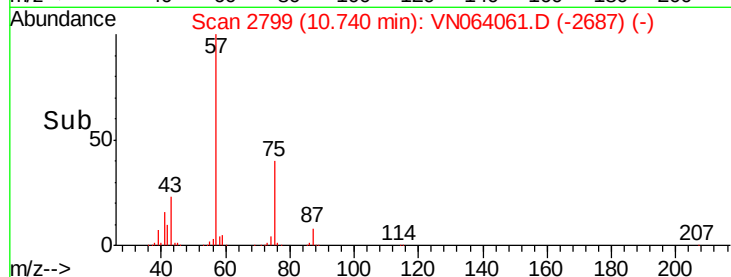
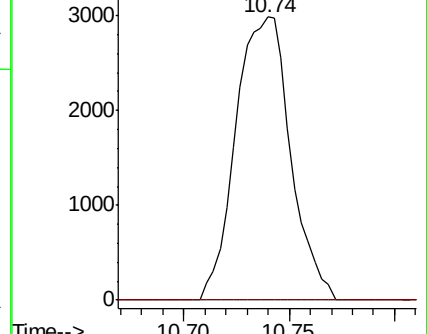
76 100

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: 29.600 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064061.D

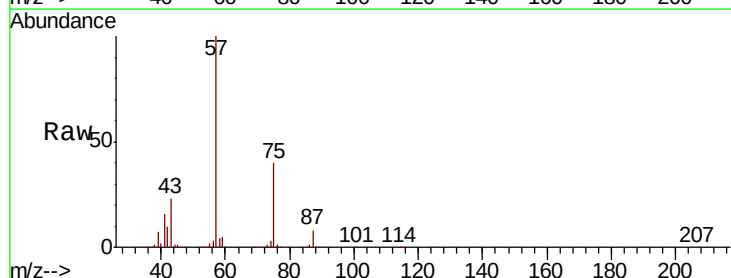
Acq: 10 Oct 2020 2:01

Tgt Ion: 43 Resp: 89659

Ion Ratio Lower Upper

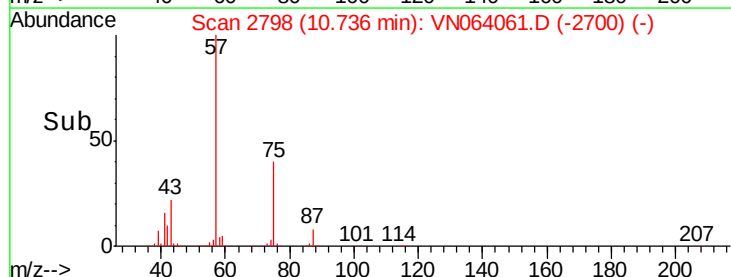
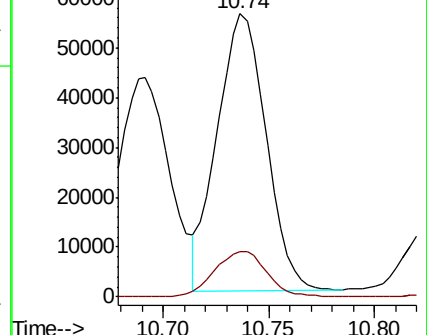
43 100

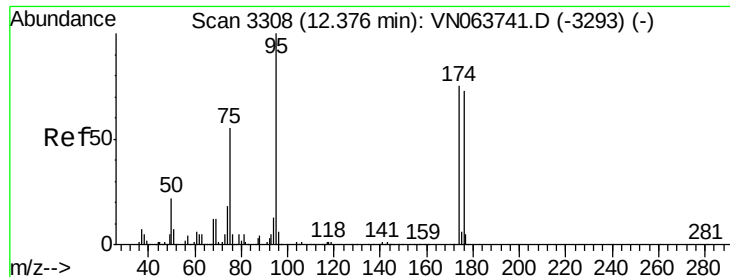
58 17.7 24.6 73.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

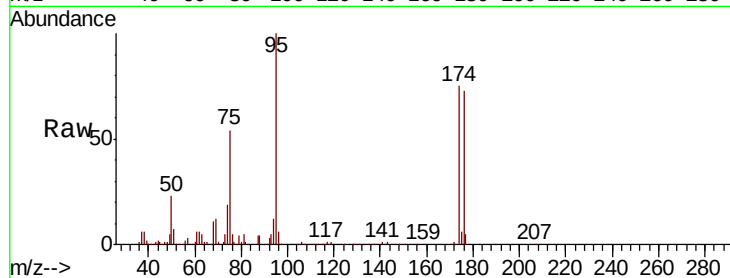




#62
4-Bromofluorobenzene
Concen: 48.497 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. 0.00 min
Lab File: VN064061.D
Acq: 10 Oct 2020 2:01

Instrument :
MSVOA_N
ClientSampleId :
PB132229ZHE#15

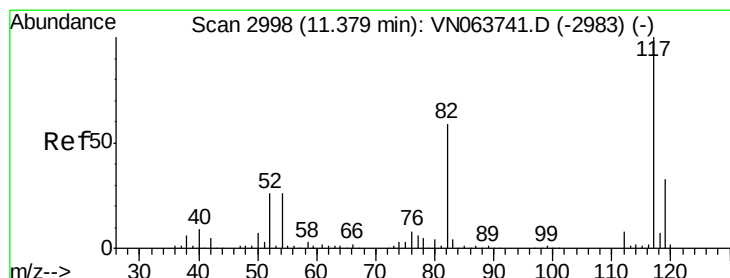
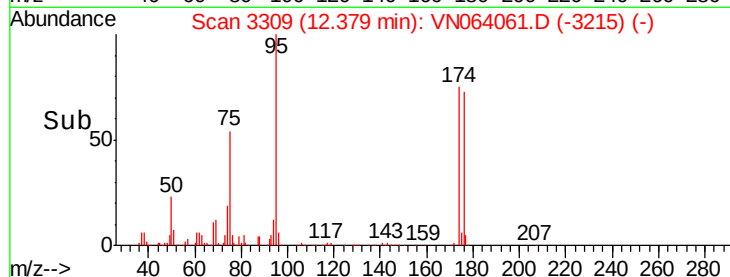
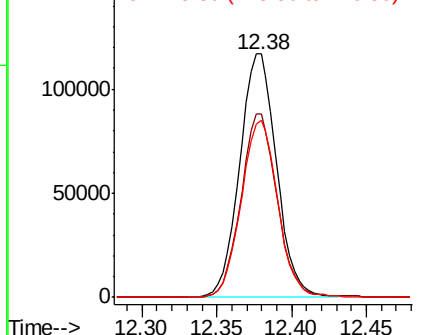
Tot Ion	Ratio	Lower	Upper
95	100		
174	74.4	0.0	150.6
176	72.0	0.0	145.4



Abundance Ion 94.90 (94.60 to 95.60): VN063741.D (-3293) (-)

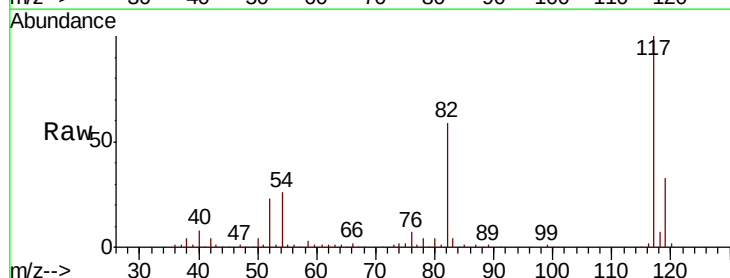
Ion 173.80 (173.50 to 174.50): VN063741.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN063741.D (-3293) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064061.D
Acq: 10 Oct 2020 2:01

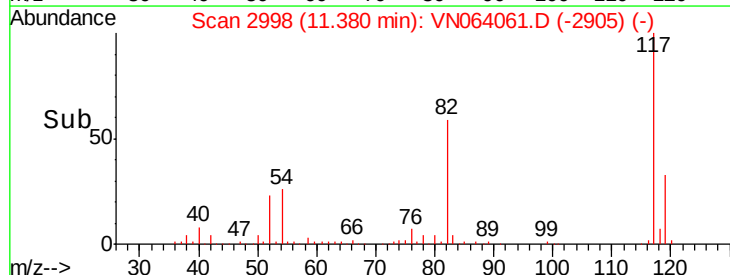
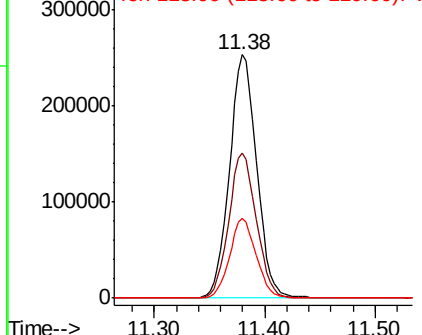
Tgt Ion	Ratio	Lower	Upper
117	100		
82	59.5	47.4	71.2
119	32.8	26.4	39.6

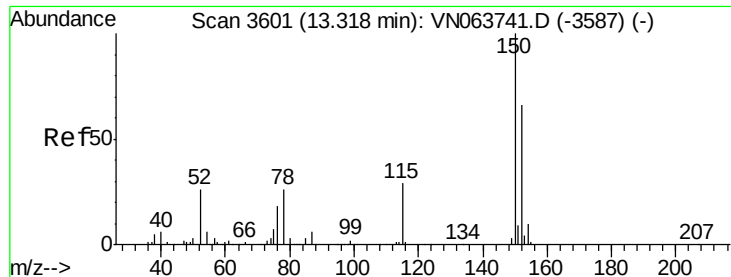


Abundance Ion 116.90 (116.60 to 117.60): VN063741.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063741.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063741.D (-2983) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064061.D

Acq: 10 Oct 2020 2:01

Instrument :

MSVOA_N

ClientSampleId :

PB132229ZHE#15

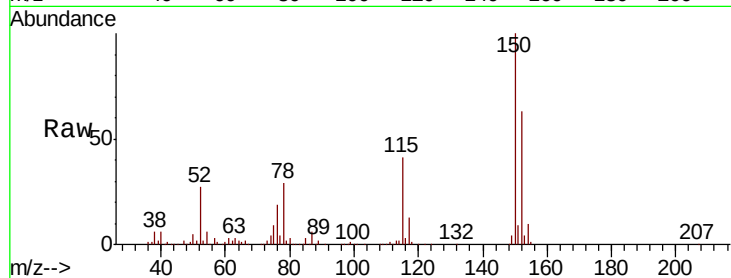
Tot Ion:152 Resp: 164206

Ion Ratio Lower Upper

152 100

115 64.6 31.3 93.8

150 158.0 0.0 341.8

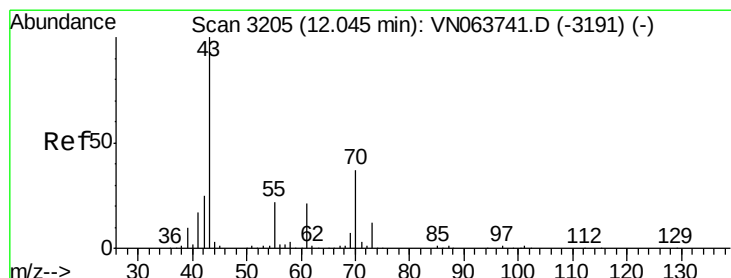
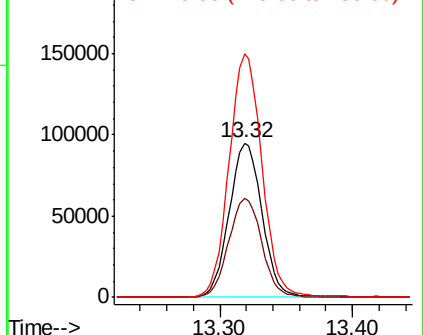
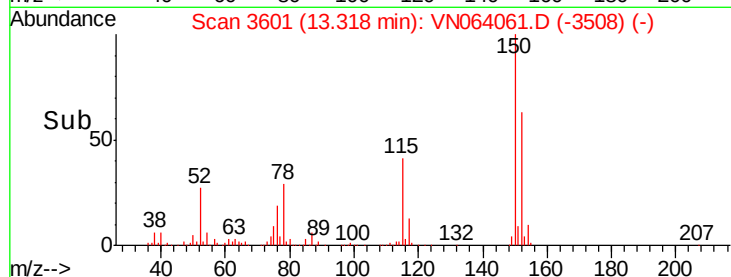


Abundance

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-ethyl acetate

Concen: 2.544 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN064061.D

Acq: 10 Oct 2020 2:01

Tgt Ion: 43 Resp: 1912

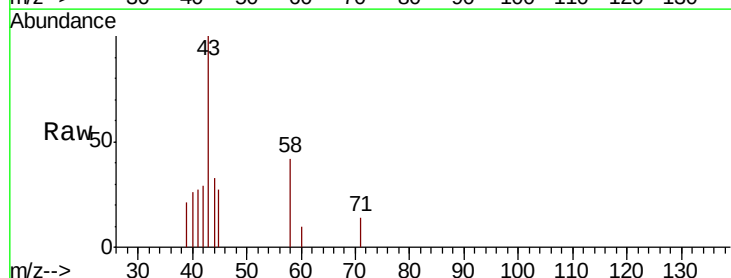
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 13.5 17.9 26.9#

61 0.0 17.0 25.4#



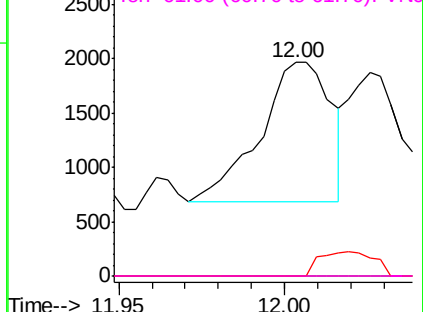
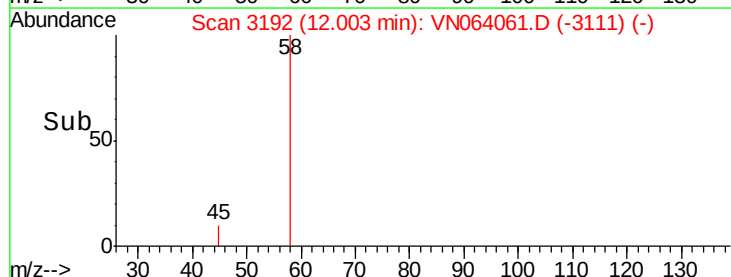
Abundance

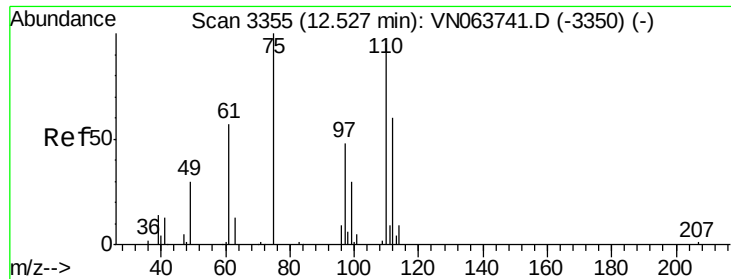
Ion 43.00 (42.70 to 43.70): V

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: 30.992 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064061.D

Acq: 10 Oct 2020 2:01

Instrument :

MSVOA_N

ClientSampleId :

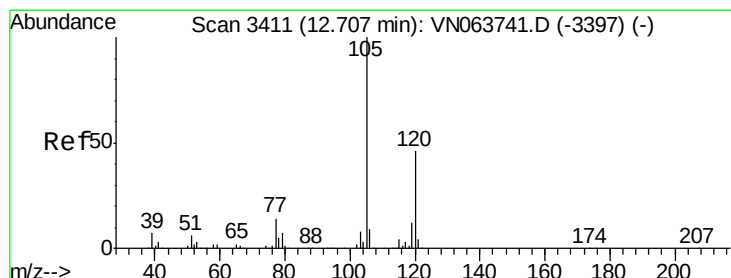
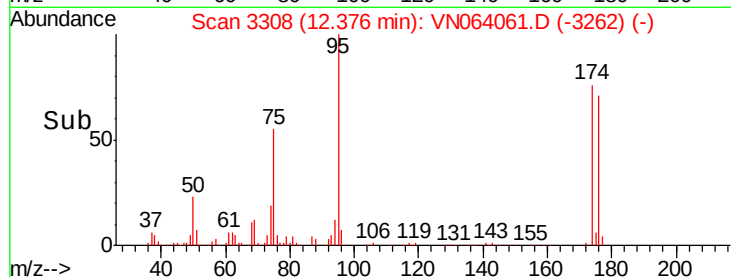
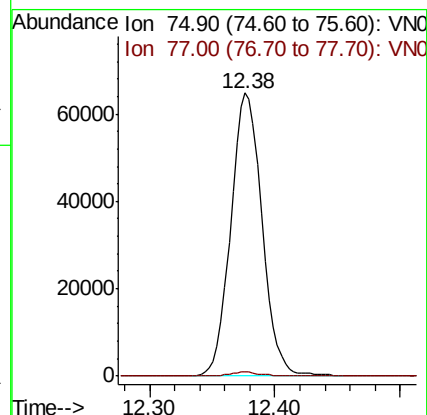
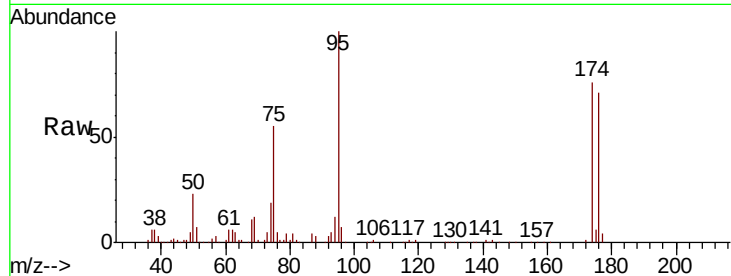
PB132229ZHE#15

Tot Ion: 75 Resp: 112183

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.418 ug/l

RT: 12.71 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VN064061.D

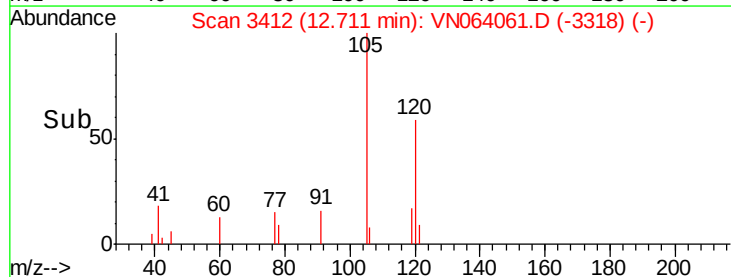
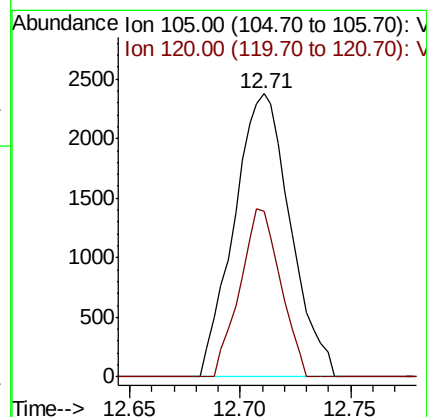
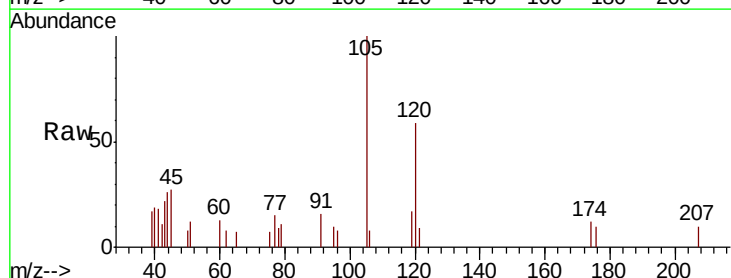
Acq: 10 Oct 2020 2:01

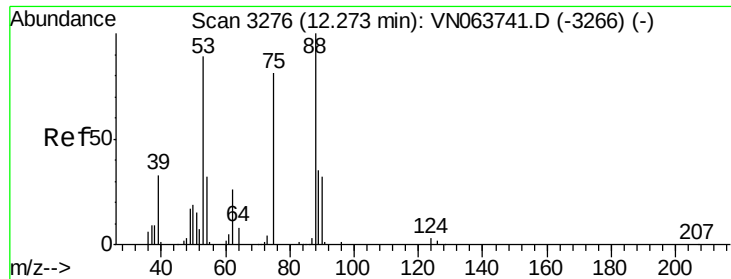
Tgt Ion: 105 Resp: 4197

Ion Ratio Lower Upper

105 100

120 43.0 23.3 69.9





#81

trans-1,4-Dichloro-2-butene

Concen: 89.262 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064061.D

Acq: 10 Oct 2020 2:01

Instrument :

MSVOA_N

ClientSampleId :

PB132229ZHE#15

Tot Ion: 75 Resp: 112183

Ion Ratio Lower Upper

75 100

53 0.2 88.2 132.2#

89 0.0 36.0 54.0#

