

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063828.D
 Acq On : 2 Oct 2020 17:56
 Operator : JC/MD
 Sample : PB132030ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132030ZHE#07

Quant Time: Oct 05 04:17:32 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	217483	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	397384	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	413837	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	170889	50.00	ug/l	0.00

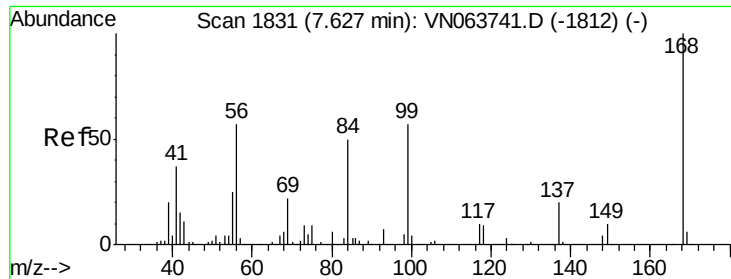
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	186522	51.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.82%	
35) Dibromofluoromethane	7.55	113	130746	47.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.84%	
50) Toluene-d8	10.06	98	508960	48.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.38%	
62) 4-Bromofluorobenzene	12.38	95	202062	51.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.84%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	4.73	59	1071	2.700	ug/l #	71
16) Acetone	3.78	43	18510	16.736	ug/l	100
17) Carbon Disulfide	4.02	76	244	0.741	ug/l #	76
18) Methyl Acetate	4.28	43	3715	1.294	ug/l #	58
20) Methylene Chloride	4.51	84	19990	7.973	ug/l	98
25) 2-Butanone	6.79	43	15251	9.726	ug/l	93
29) Tetrahydrofuran	7.17	42	1176	1.118	ug/l #	79
31) Cyclohexane	7.62	56	6060	1.453	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	19578	4.863	ug/l #	51
37) Ethyl Acetate	6.79	43	15251	3.813	ug/l #	70
38) Carbon Tetrachloride	7.63	117	23964	5.308	ug/l #	14
43) Isopropyl Acetate	8.13	43	66638	10.101	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1359	0.438	ug/l #	44
48) Methyl methacrylate	9.14	41	5801	1.780	ug/l #	12
49) 1,4-Dioxane	9.17	88	62	1.338	ug/l #	20
51) 4-Methyl-2-Pentanone	9.95	43	8265	2.135	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	25309	5.113	ug/l #	65
56) Ethyl methacrylate	10.51	69	1791	0.443	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4262	0.883	ug/l #	43
59) 2-Hexanone	10.74	43	78269	27.213	ug/l #	59
74) N-amyl acetate	12.00	43	5813	3.175	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	117045	31.071	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2908	0.278	ug/l	83
81) trans-1,4-Dichloro-2-buten	12.38	75	117045	89.488	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

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Instrument :

MSVOA_N

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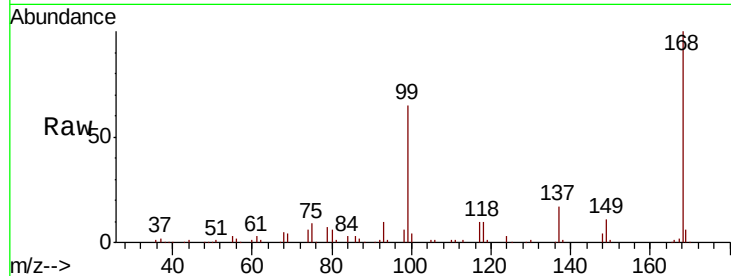
PB132030ZHE#07

Tot Ion:168 Resp: 217483

Ion Ratio Lower Upper

168 100

99 64.9 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

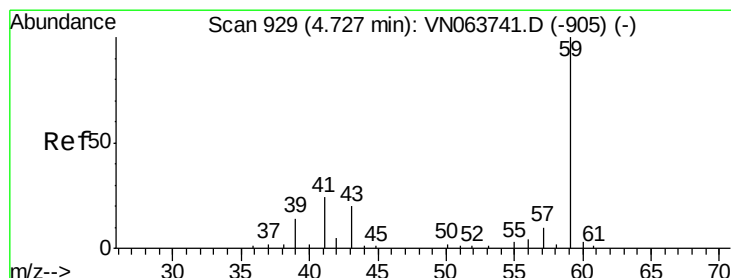
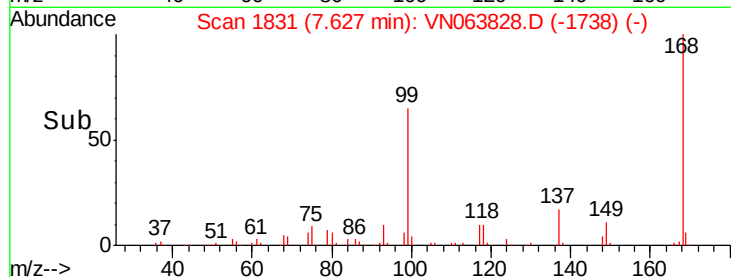
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 2.700 ug/l

RT: 4.73 min Scan# 929

Delta R.T. 0.00 min

Lab File: VN063828.D

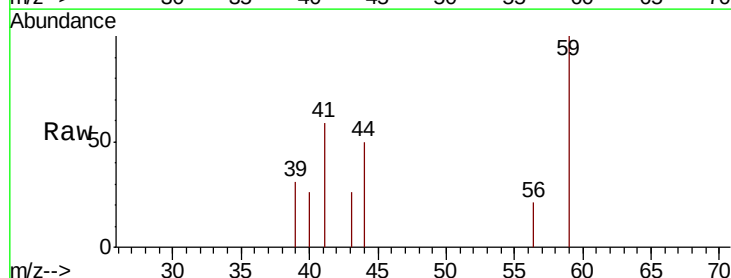
Acq: 2 Oct 2020 17:56

Tgt Ion: 59 Resp: 1071

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

800

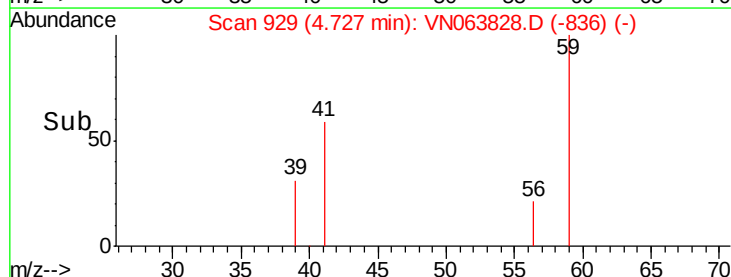
600

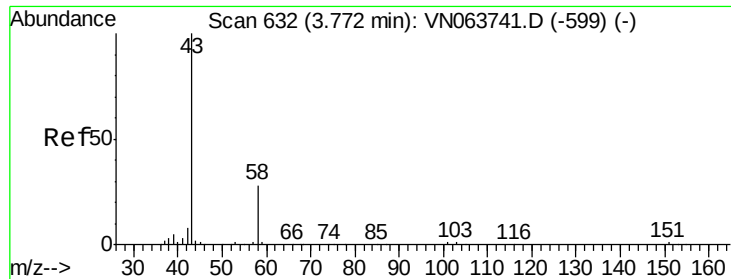
400

200

0

Time--> 4.70 4.72 4.74 4.76 4.78

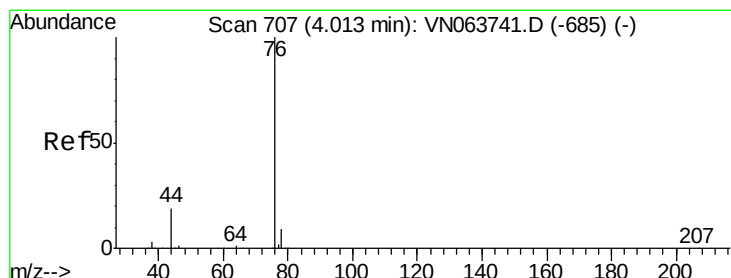
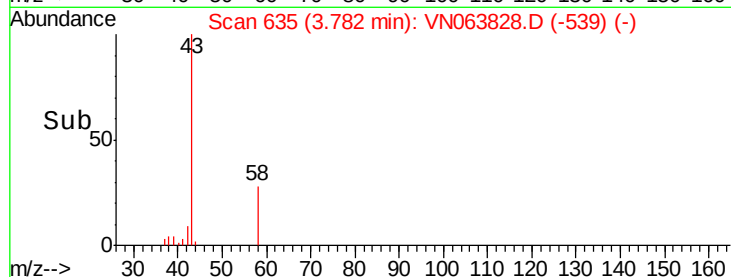
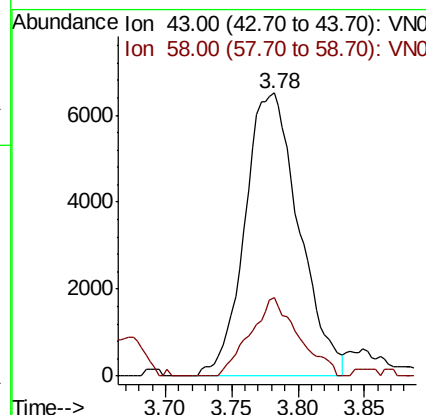
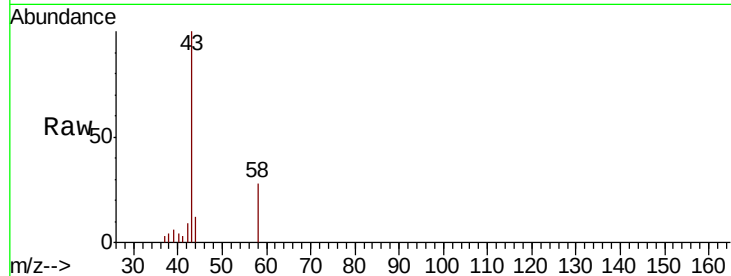




#16
Acetone
Concen: 16.736 ug/l
RT: 3.78 min Scan# 635
Delta R.T. 0.01 min
Lab File: VN063828.D
Acq: 2 Oct 2020 17:56

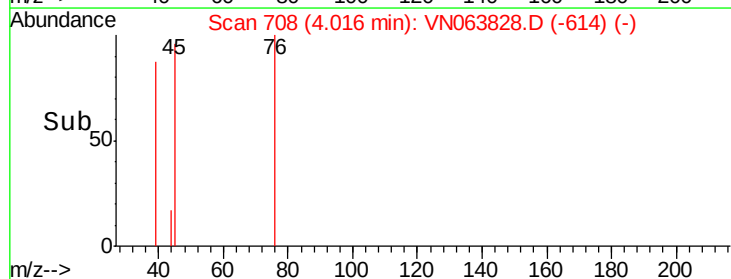
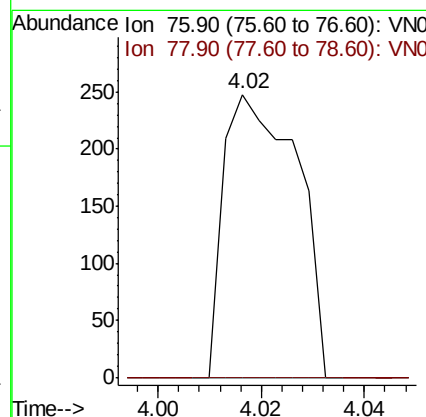
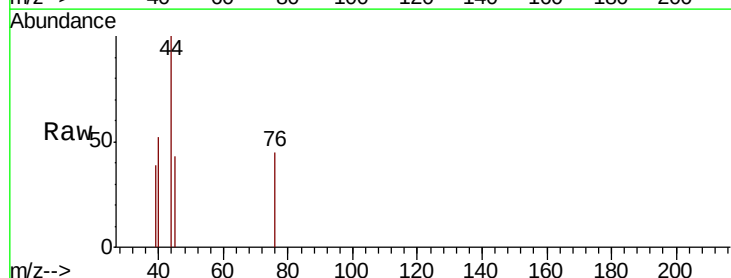
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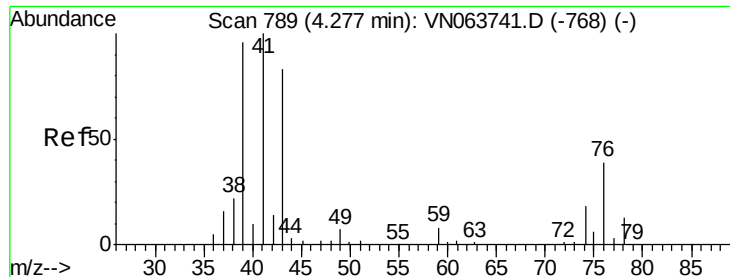
Tot Ion: 43 Resp: 18510
Ion Ratio Lower Upper
43 100
58 27.7 22.3 33.5



#17
Carbon Disulfide
Concen: 0.741 ug/l
RT: 4.02 min Scan# 708
Delta R.T. 0.00 min
Lab File: VN063828.D
Acq: 2 Oct 2020 17:56

Tgt Ion: 76 Resp: 244
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#

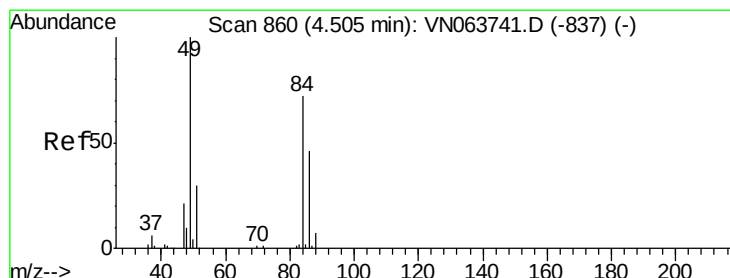
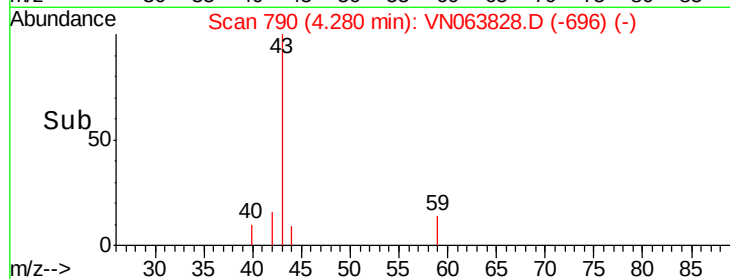
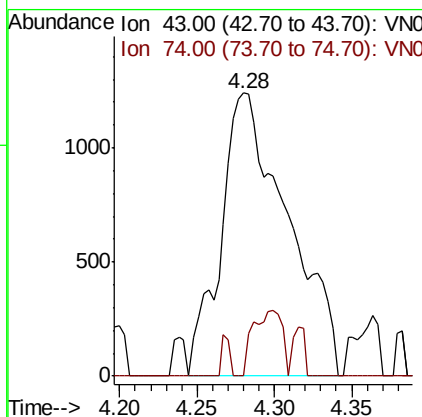
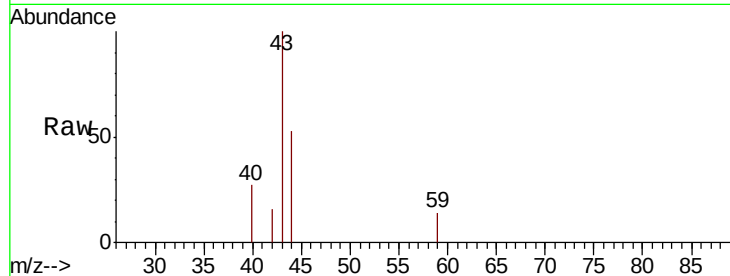




#18
Methvl Acetate
Concen: 1.294 ug/l
RT: 4.28 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN063828.D
Acq: 2 Oct 2020 17:56

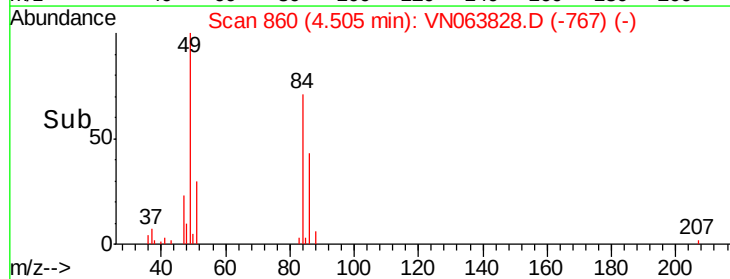
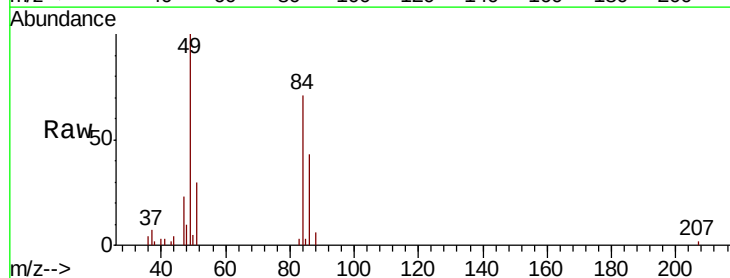
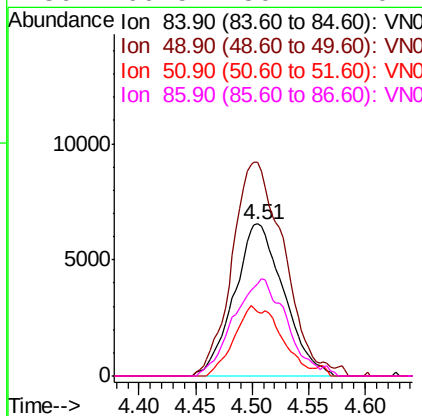
Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#07

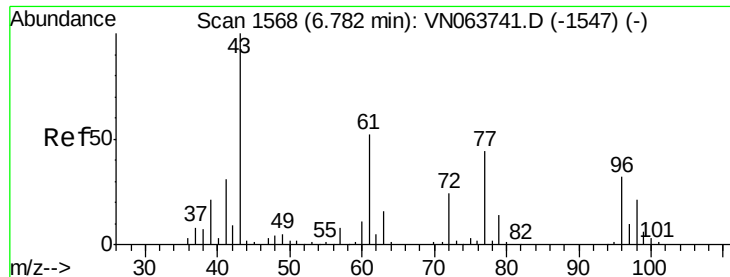
Tot Ion: 43 Resp: 3715
Ion Ratio Lower Upper
43 100
74 1.7 17.4 26.2#



#20
Methylene Chloride
Concen: 7.973 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063828.D
Acq: 2 Oct 2020 17:56

Tgt Ion: 84 Resp: 19990
Ion Ratio Lower Upper
84 100
49 140.5 110.4 165.6
51 41.9 33.3 49.9
86 60.5 50.7 76.1





#25

2-Butanone

Concen: 9.726 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. 0.01 min

Lab File: VN063828.D

Acq: 2 Oct 2020 17:56

Instrument :

MSVOA_N

ClientSampleId :

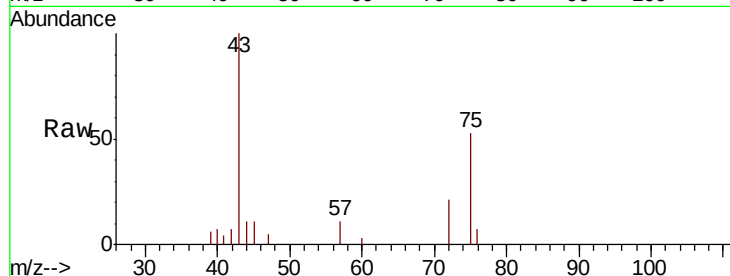
PB132030ZHE#07

Tot Ion: 43 Resp: 15251

Ion Ratio Lower Upper

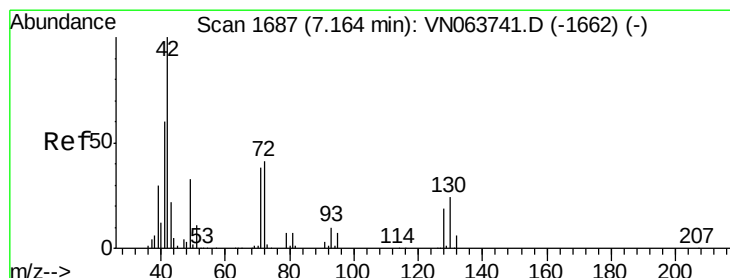
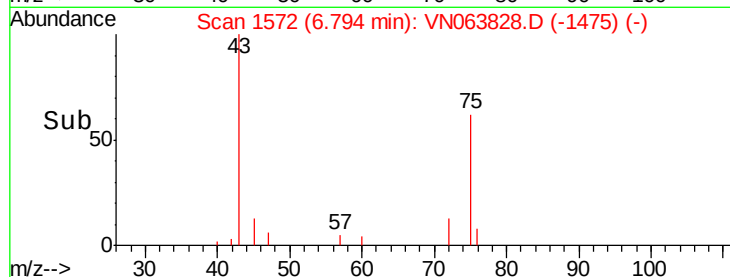
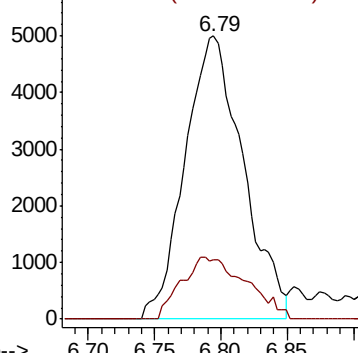
43 100

72 20.8 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 1.118 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN063828.D

Acq: 2 Oct 2020 17:56

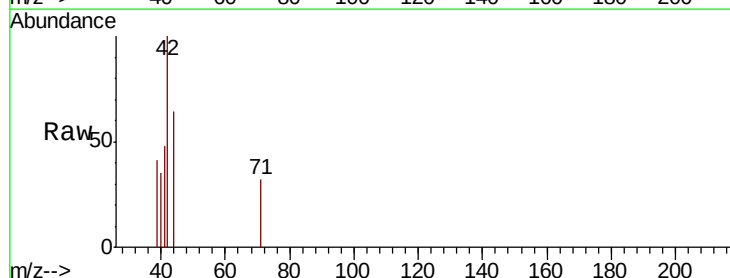
Tgt Ion: 42 Resp: 1176

Ion Ratio Lower Upper

42 100

72 23.3 32.8 49.2#

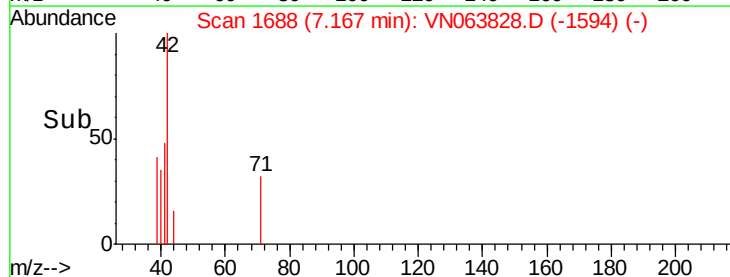
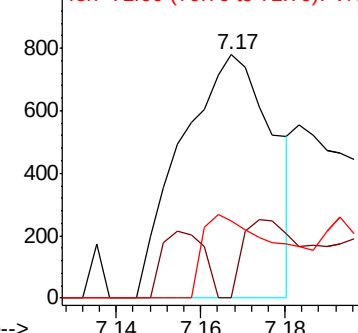
71 30.0 30.6 45.8#

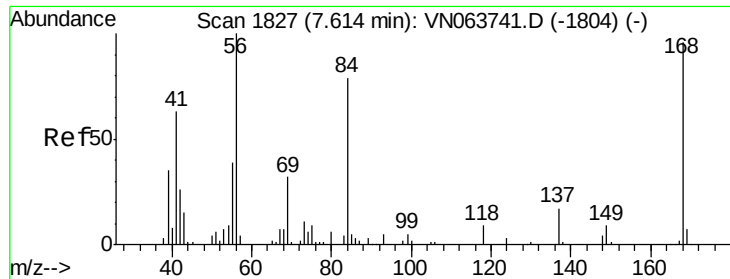


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

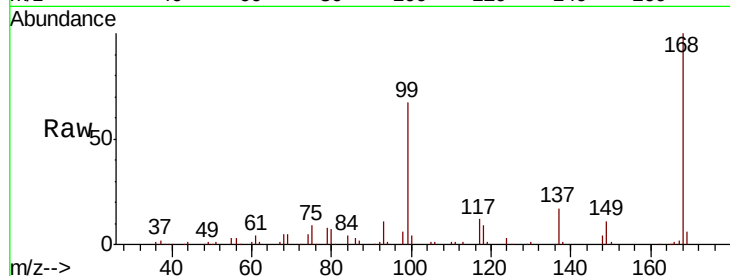




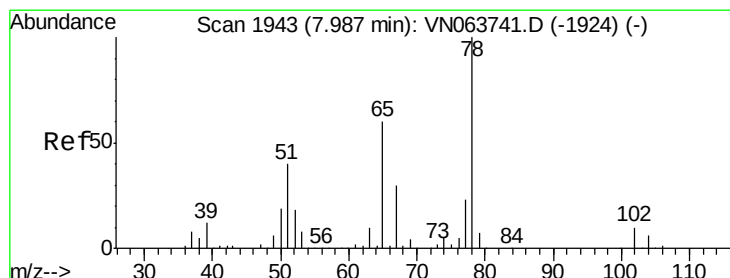
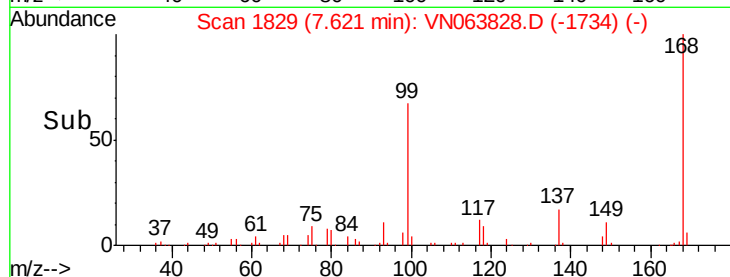
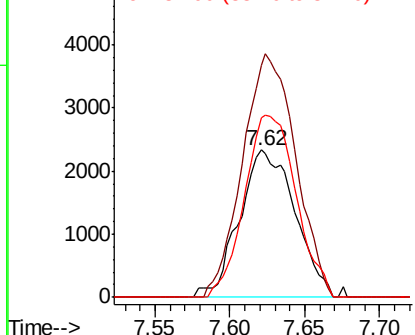
#31
Cyclohexane
Concen: 1.453 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN063828.D
Acq: 2 Oct 2020 17:56

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MSVOA_N
ClientSampleId :
PB132030ZHE#07

Tot Ion: 56 Resp: 6060
Ion Ratio Lower Upper
56 100
69 157.4 25.4 38.2#
84 122.0 63.3 94.9#

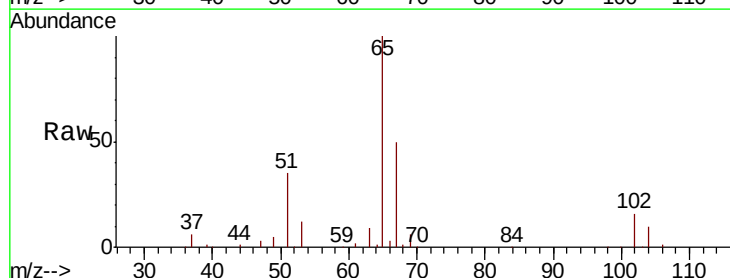


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

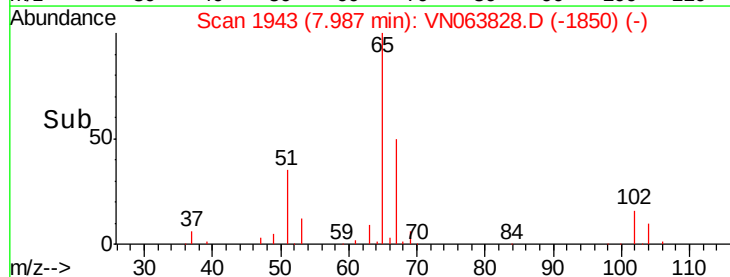
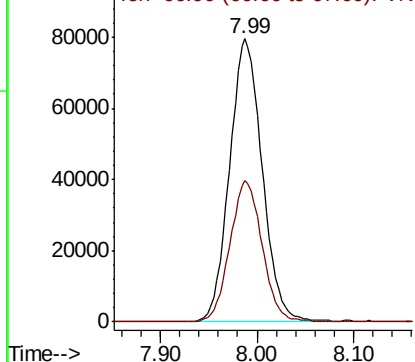


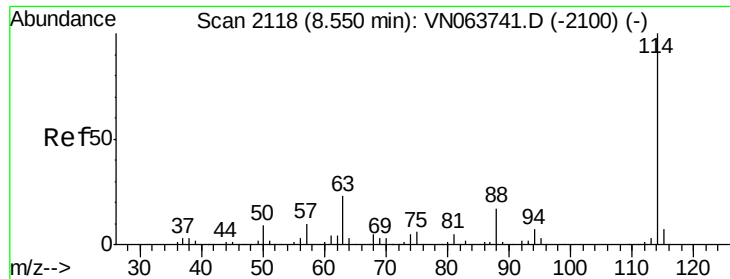
#33
1,2-Dichloroethane-d4
Concen: 51.913 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063828.D
Acq: 2 Oct 2020 17:56

Tgt Ion: 65 Resp: 186522
Ion Ratio Lower Upper
65 100
67 49.4 0.0 99.6



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

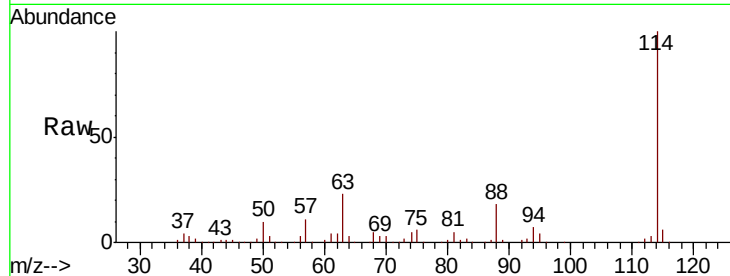




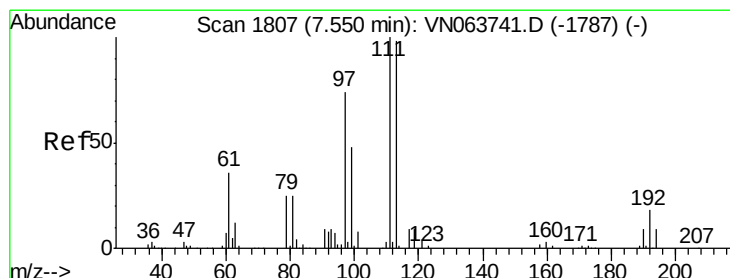
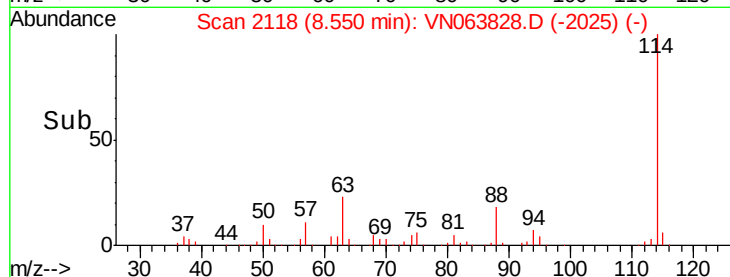
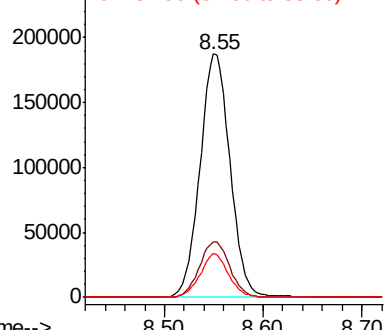
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063828.D
 Acq: 2 Oct 2020 17:56

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Tot Ion:114 Resp: 397384
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 45.0
 88 17.8 0.0 34.0

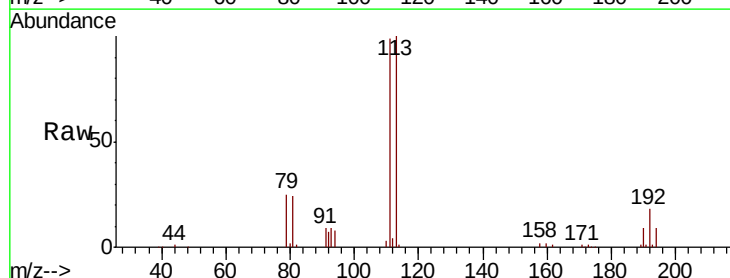


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

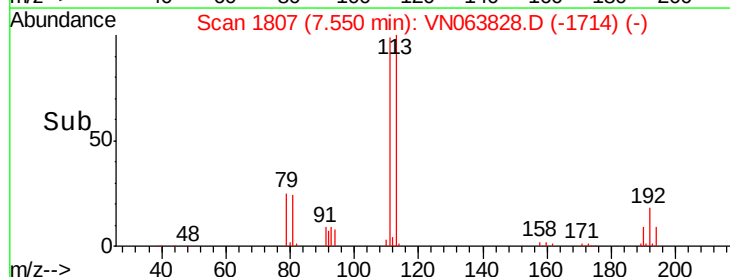
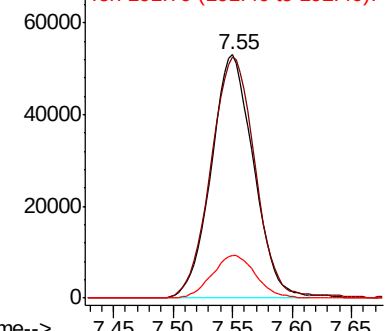


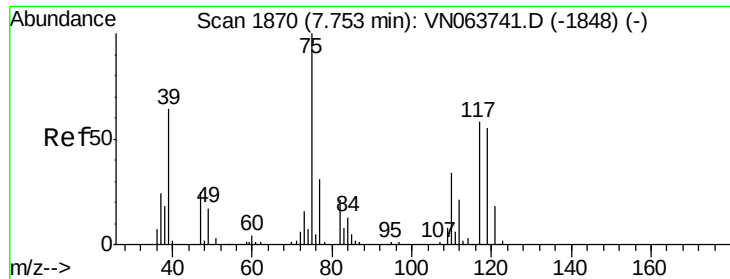
#35
 Dibromofluoromethane
 Concen: 47.417 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063828.D
 Acq: 2 Oct 2020 17:56

Tgt Ion:113 Resp: 130746
 Ion Ratio Lower Upper
 113 100
 111 103.9 81.8 122.8
 192 18.0 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

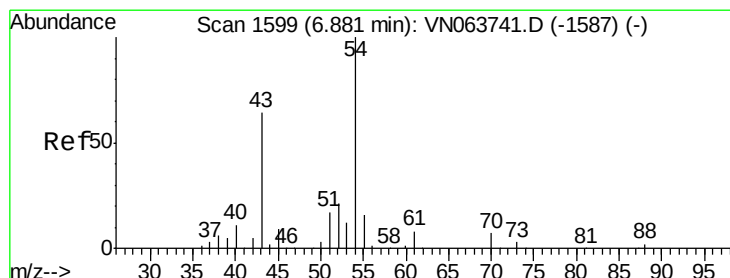
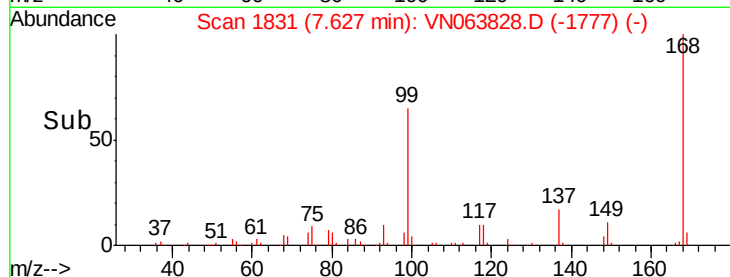
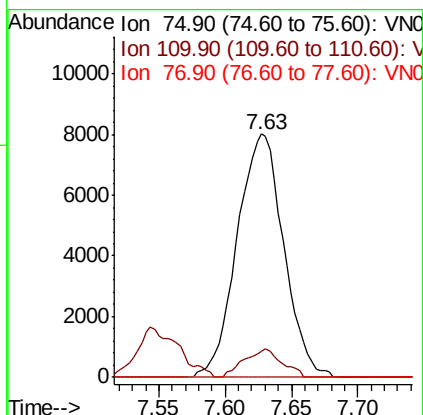
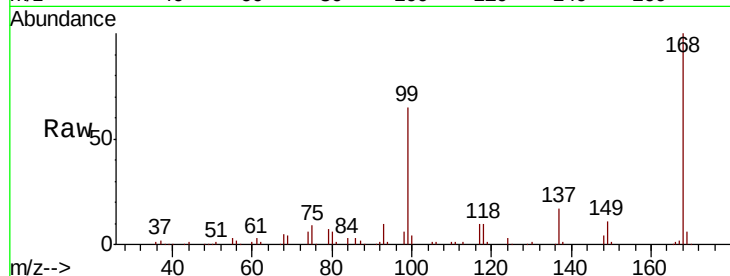




#36
 1,1-Dichloropropene
 Concen: 4.863 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063828.D
 Acq: 2 Oct 2020 17:56

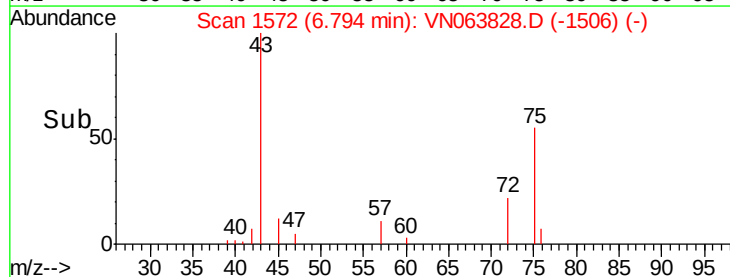
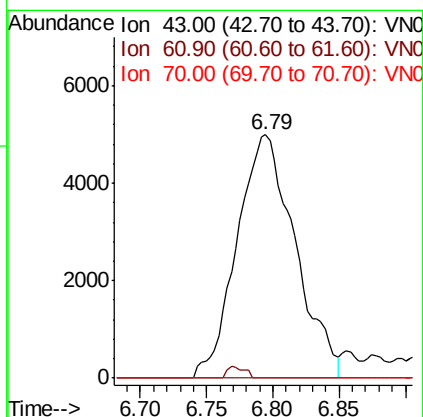
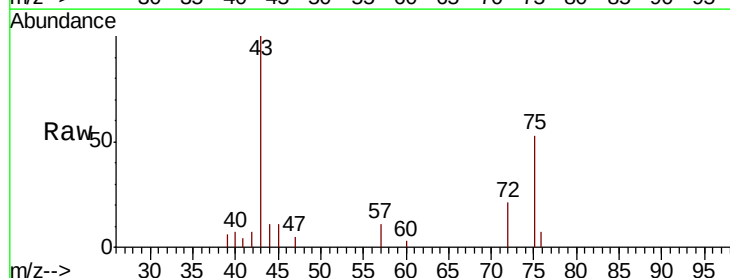
Instrument :
 MSVOA_N
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 PB132030ZHE#07

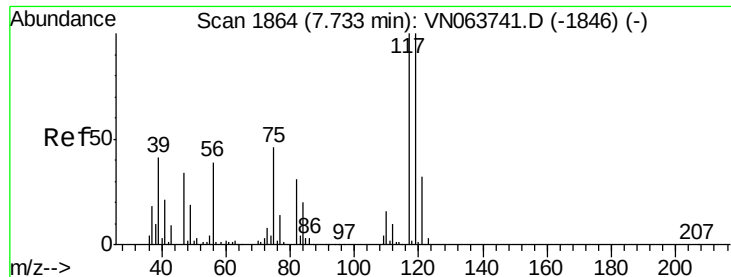
Tot Ion: 75 Resp: 19578
 Ion Ratio Lower Upper
 75 100
 110 9.4 16.9 50.6#
 77 0.0 24.5 36.7#



#37
 Ethyl Acetate
 Concen: 3.813 ug/l
 RT: 6.79 min Scan# 1572
 Delta R.T. -0.09 min
 Lab File: VN063828.D
 Acq: 2 Oct 2020 17:56

Tgt Ion: 43 Resp: 15251
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.4 15.6#
 70 0.0 7.3 10.9#





#38

Carbon Tetrachloride

Concen: 5.308 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN063828.D

Acq: 2 Oct 2020 17:56

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#07

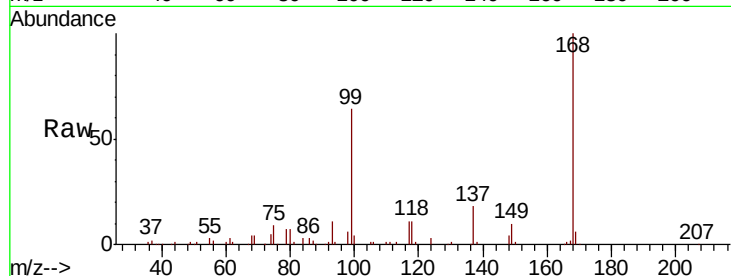
Tot Ion:117 Resp: 23964

Ion Ratio Lower Upper

117 100

119 5.3 80.1 120.1#

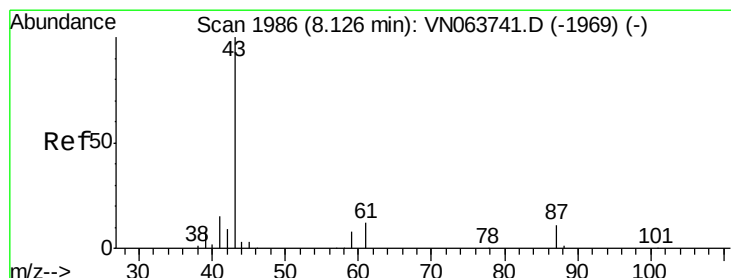
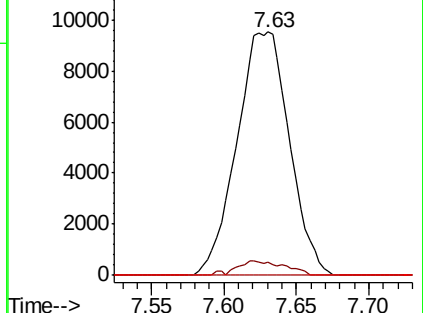
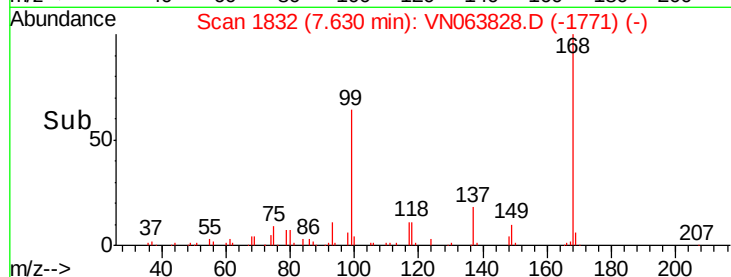
121 0.0 25.7 38.5#



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: 10.101 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063828.D

Acq: 2 Oct 2020 17:56

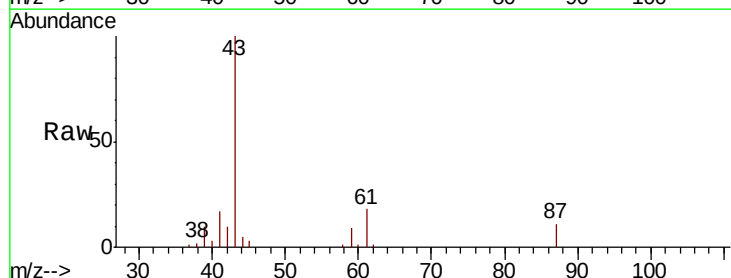
Tgt Ion: 43 Resp: 66638

Ion Ratio Lower Upper

43 100

61 17.1 14.2 21.4

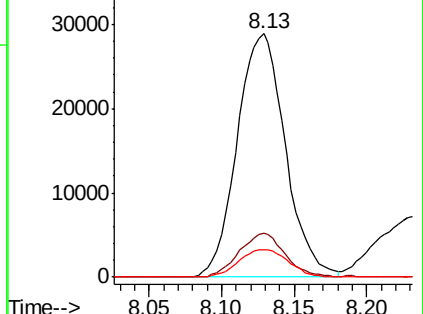
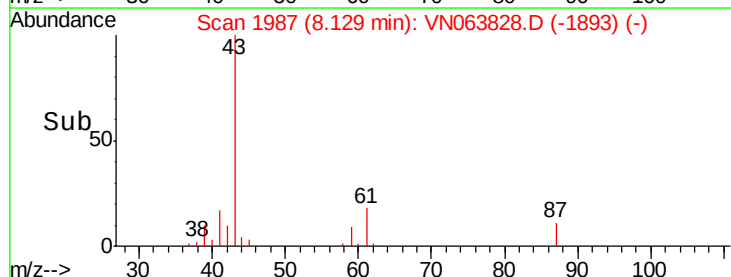
87 11.6 9.0 13.6

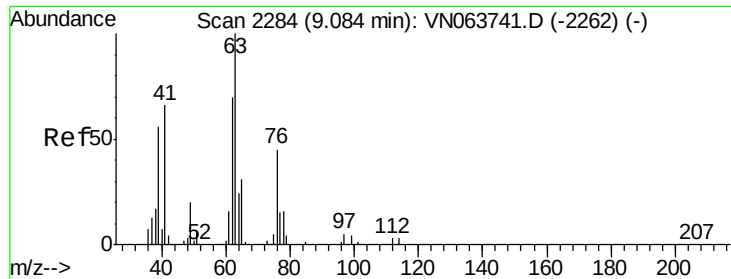


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

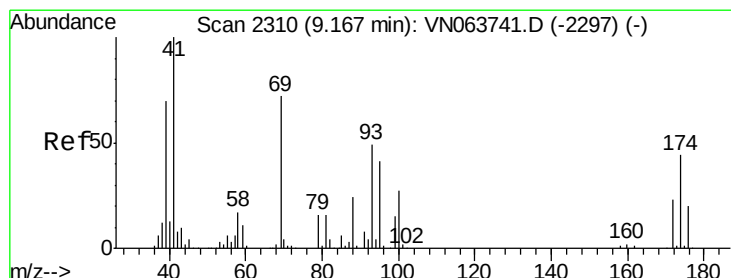
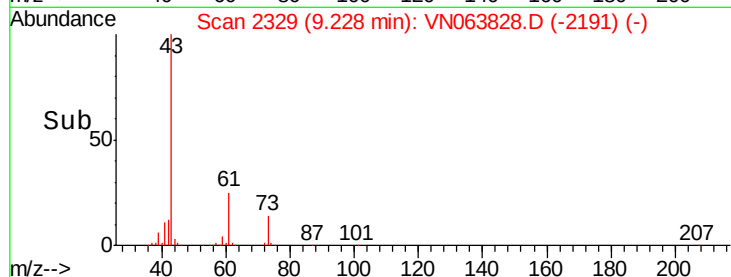
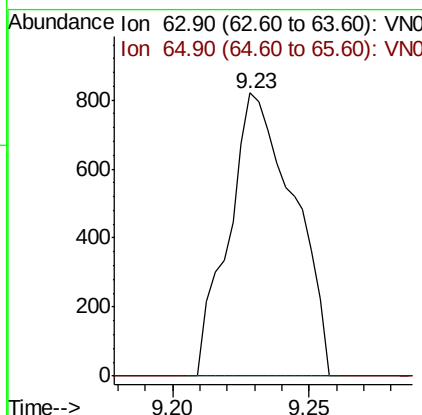
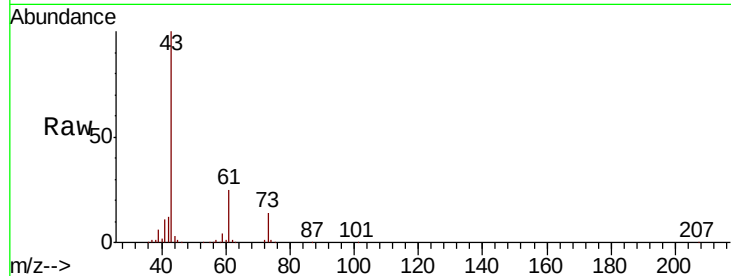




#45
 1,2-Dichloropropane
 Concen: 0.438 ug/l
 RT: 9.23 min Scan# 2329
 Delta R.T. 0.14 min
 Lab File: VN063828.D
 Acq: 2 Oct 2020 17:56

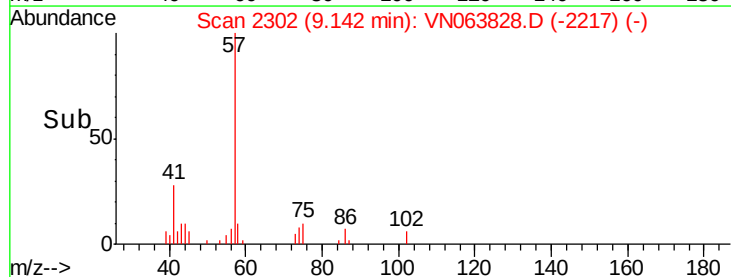
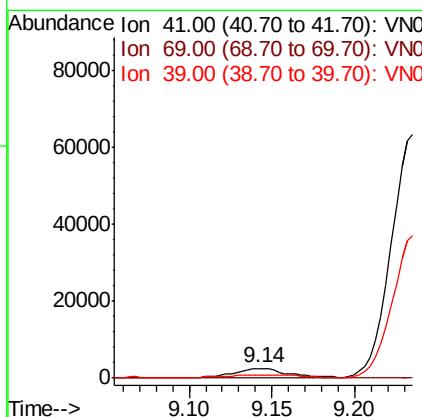
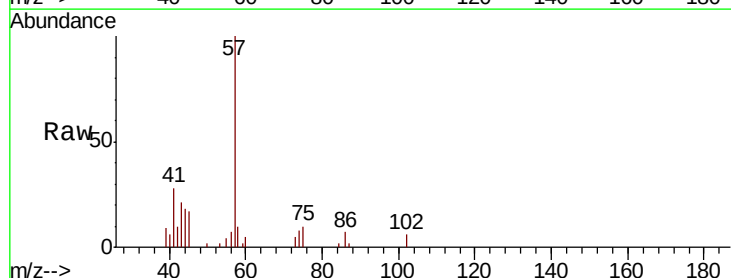
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132030ZHE#07

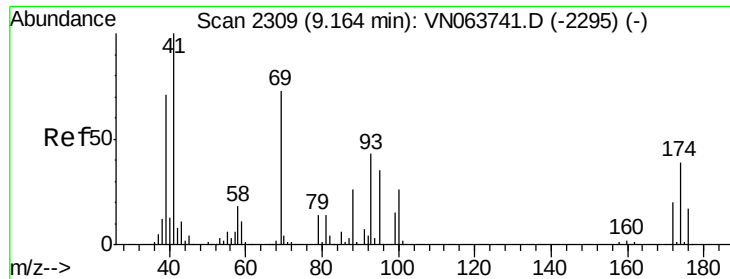
Tot Ion: 63 Resp: 1359
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.7 37.1#



#48
 Methyl methacrylate
 Concen: 1.780 ug/l
 RT: 9.14 min Scan# 2302
 Delta R.T. -0.03 min
 Lab File: VN063828.D
 Acq: 2 Oct 2020 17:56

Tgt Ion: 41 Resp: 5801
 Ion Ratio Lower Upper
 41 100
 69 0.0 60.9 91.3#
 39 0.0 57.5 86.3#

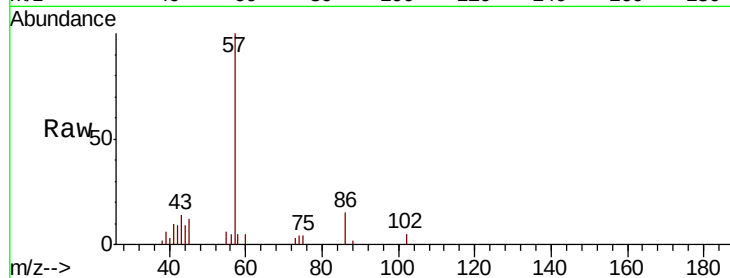




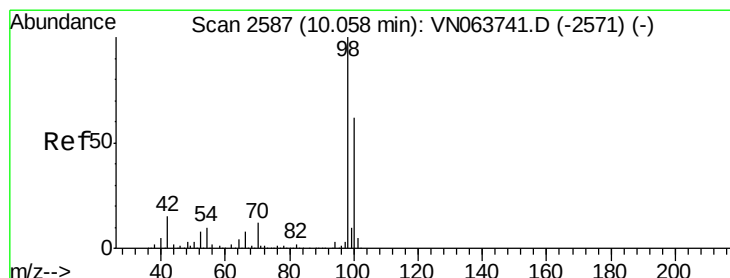
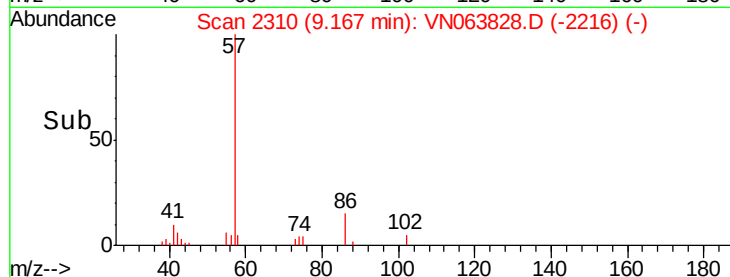
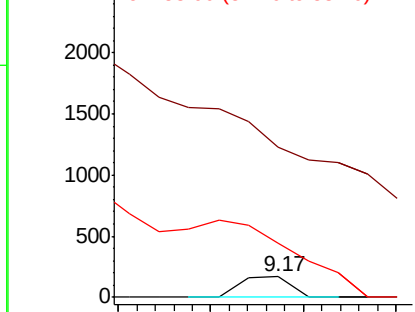
#49
1,4-Dioxane
Concen: 1.338 ug/l
RT: 9.17 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN063828.D
Acq: 2 Oct 2020 17:56

Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#07

Tot Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 0.0 33.1 49.7#
58 0.0 58.9 88.3#

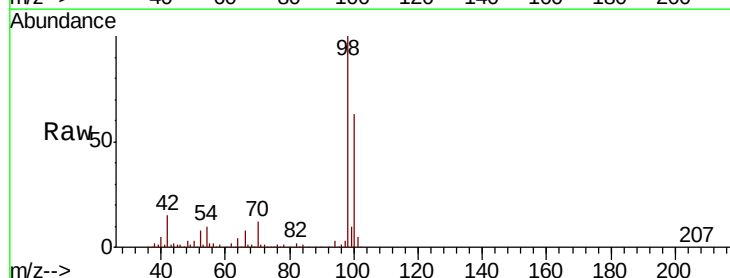


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

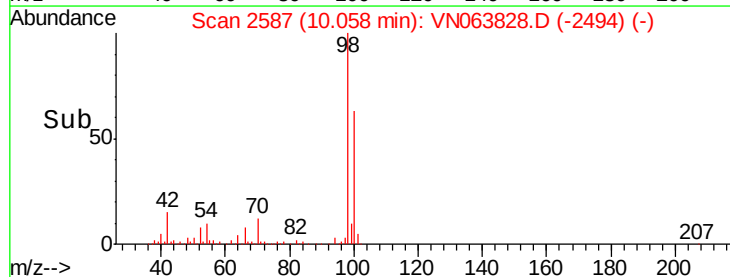
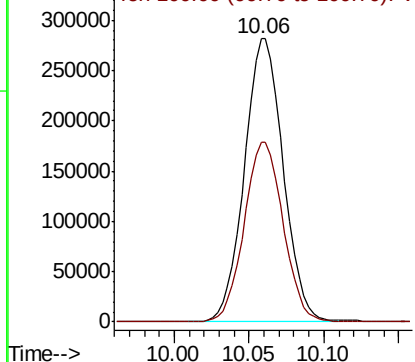


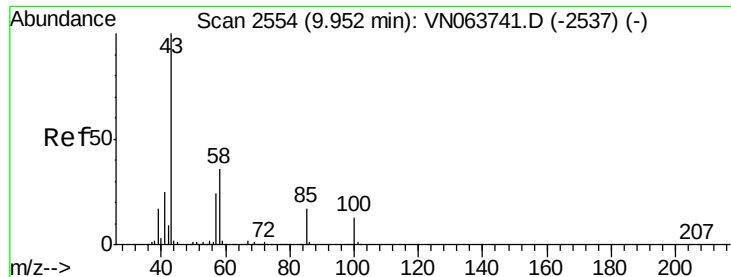
#50
Toluene-d8
Concen: 48.691 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN063828.D
Acq: 2 Oct 2020 17:56

Tgt Ion: 98 Resp: 508960
Ion Ratio Lower Upper
98 100
100 63.8 49.8 74.6



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





#51

4-Methyl-2-Pentanone

Concen: 2.135 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN063828.D

Acq: 2 Oct 2020 17:56

Instrument :

MSVOA_N

ClientSampleId :

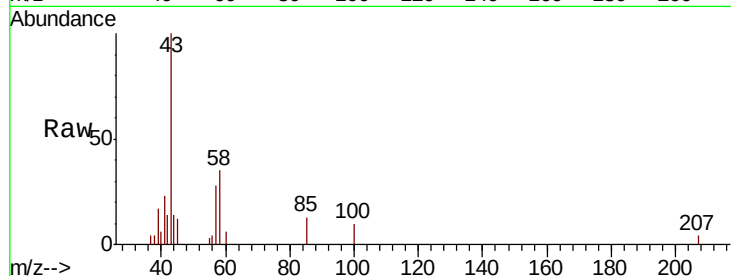
PB132030ZHE#07

Tot Ion: 43 Resp: 8265

Ion Ratio Lower Upper

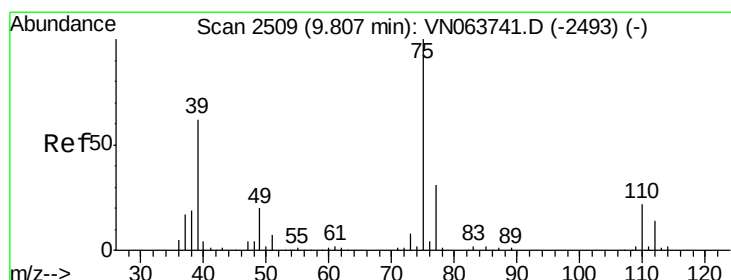
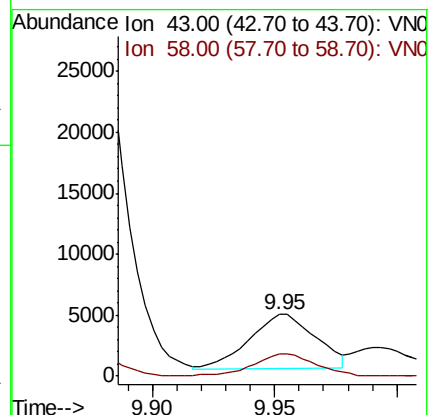
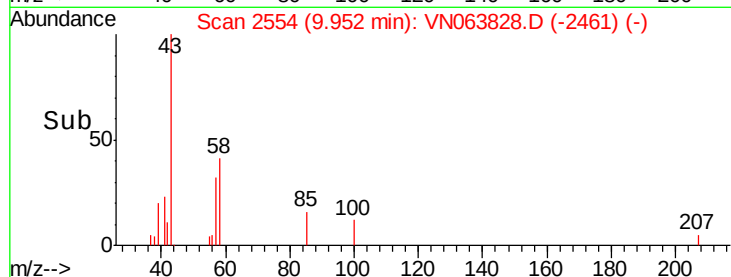
43 100

58 39.6 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.113 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063828.D

Acq: 2 Oct 2020 17:56

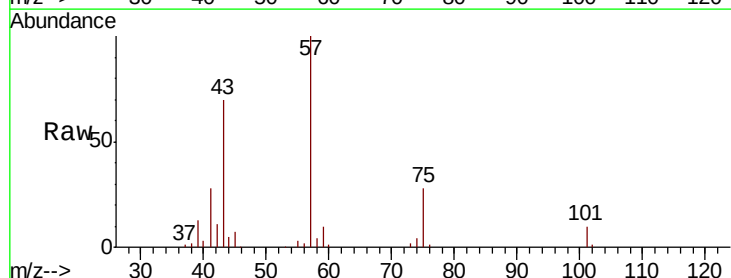
Tgt Ion: 75 Resp: 25309

Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

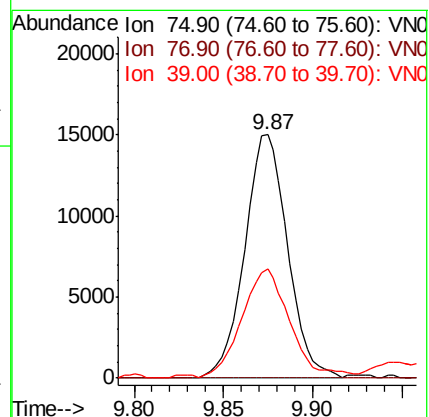
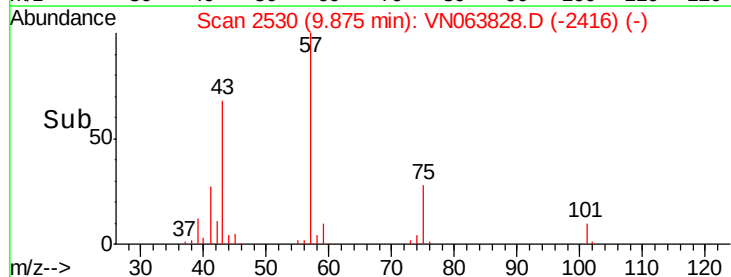
39 43.6 49.7 74.5#

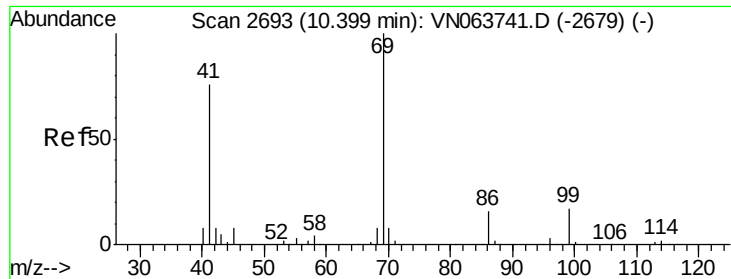


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

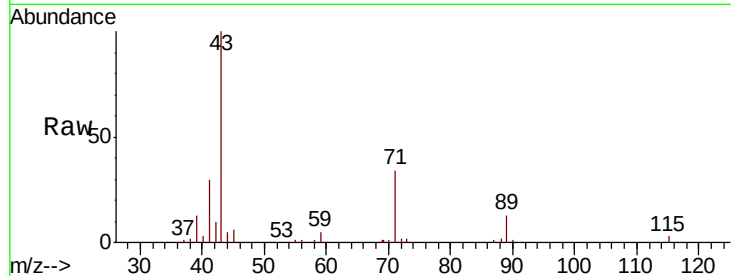




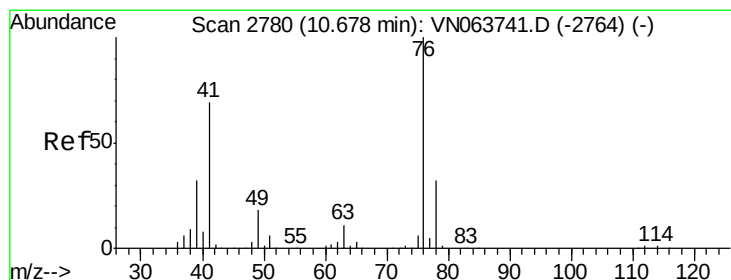
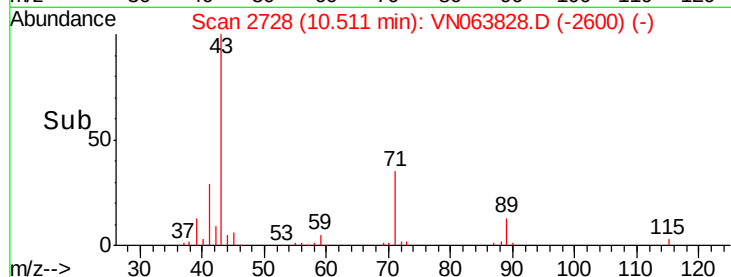
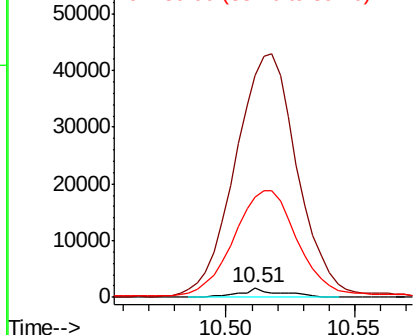
#56
Ethyl methacrylate
Concen: 0.443 ug/l
RT: 10.51 min Scan# 2728
Delta R.T. 0.11 min
Lab File: VN063828.D
Acq: 2 Oct 2020 17:56

Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#07

Tot Ion: 69 Resp: 1791
Ion Ratio Lower Upper
69 100
41 4069.7 61.1 91.7#
39 1810.3 42.2 63.4#

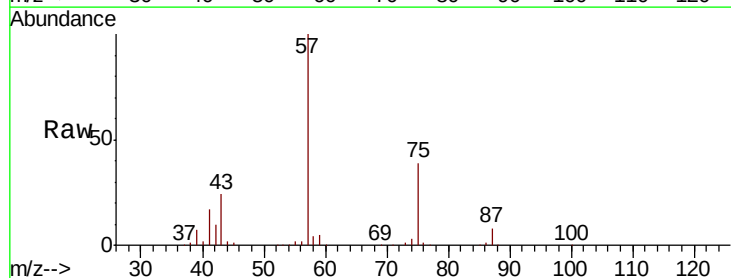


Abundance Ion 69.00 (68.70 to 69.70): VN0
Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

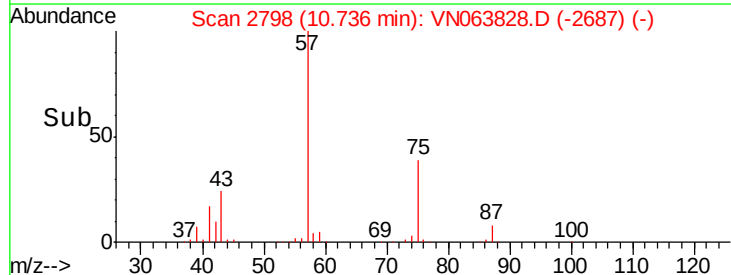
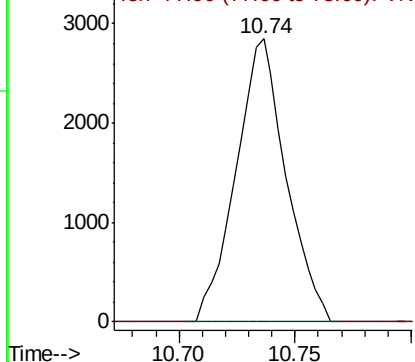


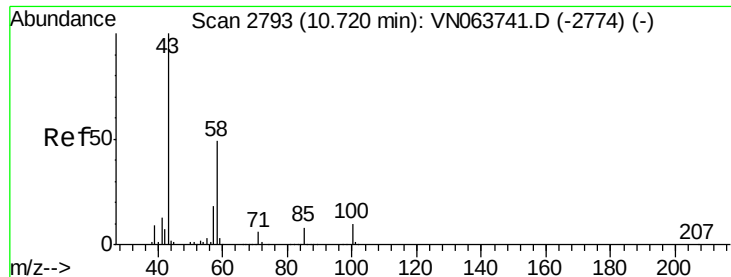
#57
1,3-Dichloropropane
Concen: 0.883 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.06 min
Lab File: VN063828.D
Acq: 2 Oct 2020 17:56

Tgt Ion: 76 Resp: 4262
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

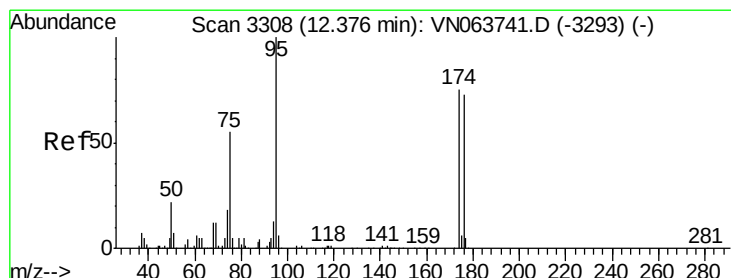
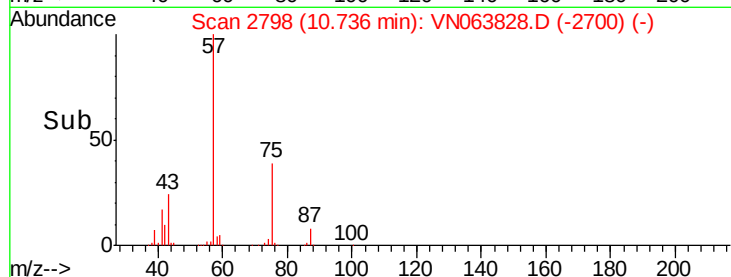
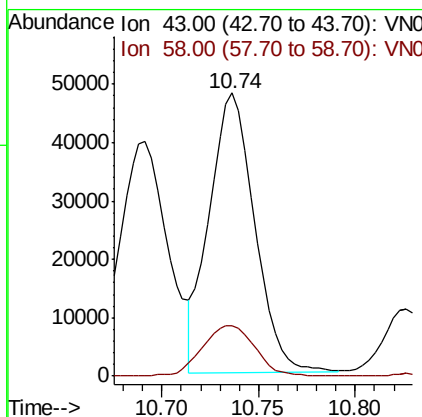
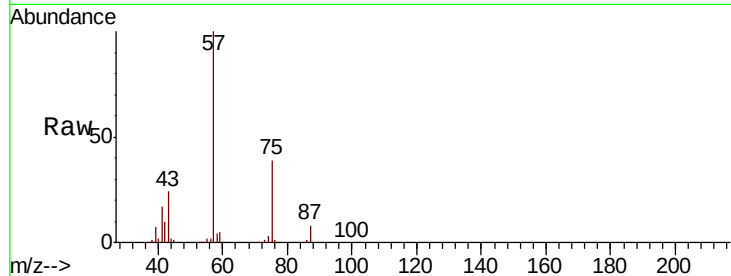




#59
2-Hexanone
Concen: 27.213 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063828.D
Acq: 2 Oct 2020 17:56

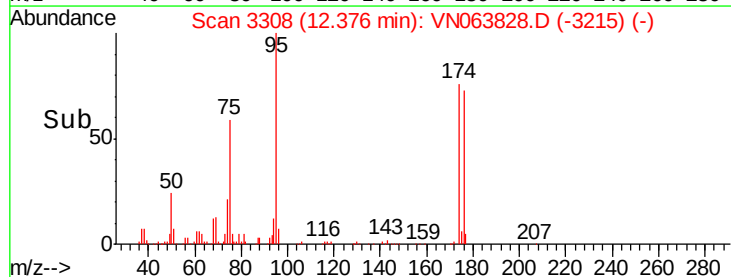
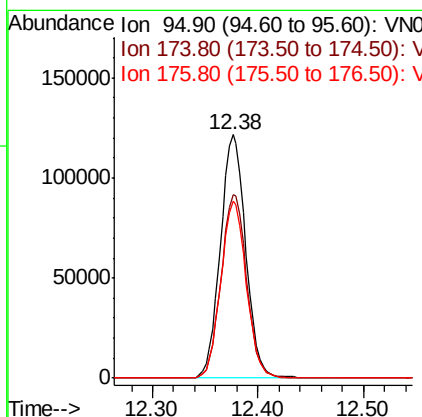
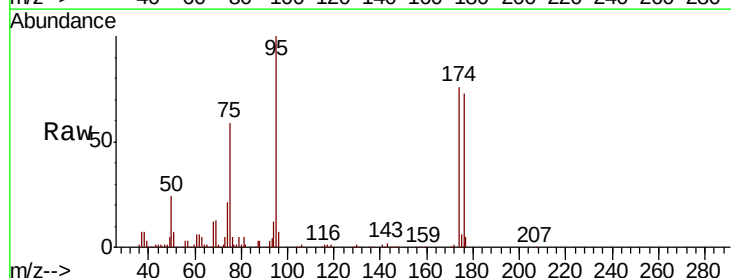
Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#07

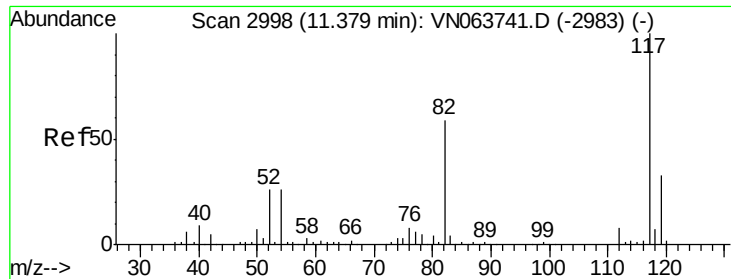
Tot Ion: 43 Resp: 78269
Ion Ratio Lower Upper
43 100
58 20.9 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 51.424 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063828.D
Acq: 2 Oct 2020 17:56

Tgt Ion: 95 Resp: 202062
Ion Ratio Lower Upper
95 100
174 75.9 0.0 150.6
176 73.0 0.0 145.4

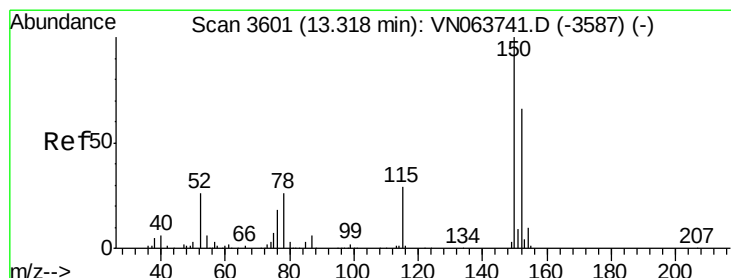
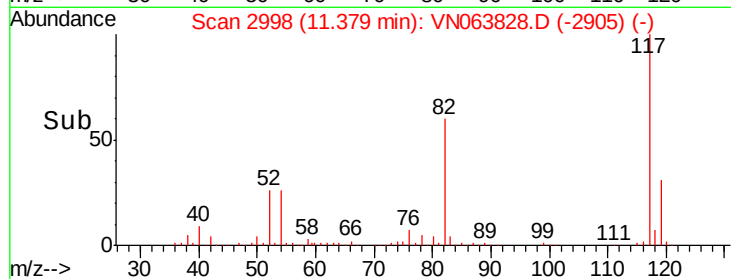
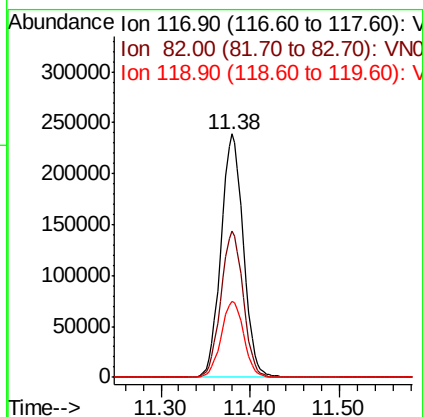
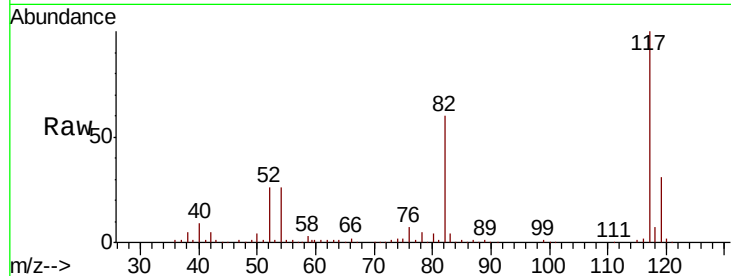




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063828.D
Acq: 2 Oct 2020 17:56

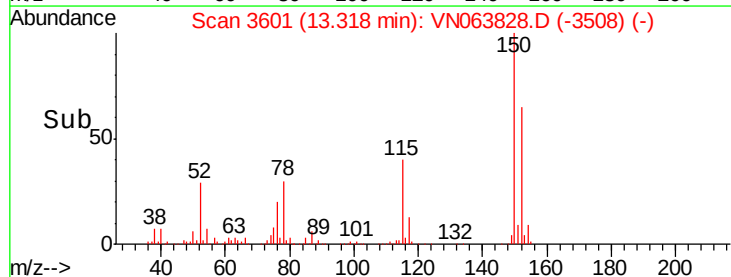
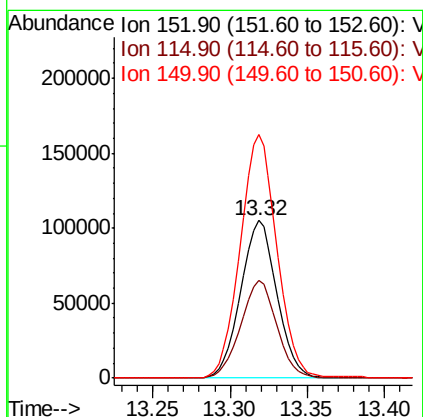
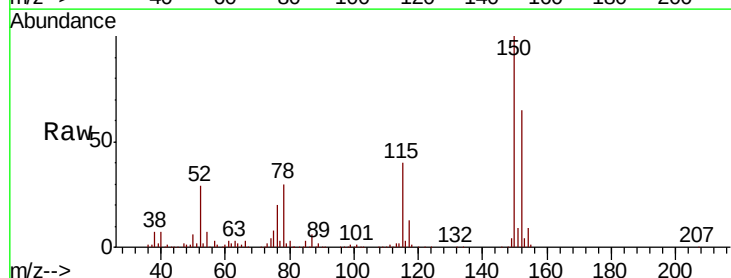
Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#07

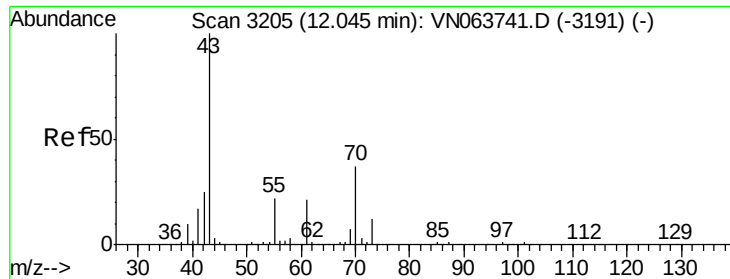
Tot Ion:117 Resp: 413837
Ion Ratio Lower Upper
117 100
82 60.1 47.4 71.2
119 31.1 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063828.D
Acq: 2 Oct 2020 17:56

Tgt Ion:152 Resp: 170889
Ion Ratio Lower Upper
152 100
115 62.0 31.3 93.8
150 157.1 0.0 341.8





#74

N-amvl acetate

Concen: 3.175 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN063828.D

Acq: 2 Oct 2020 17:56

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#07

Tot Ion: 43 Resp: 5813

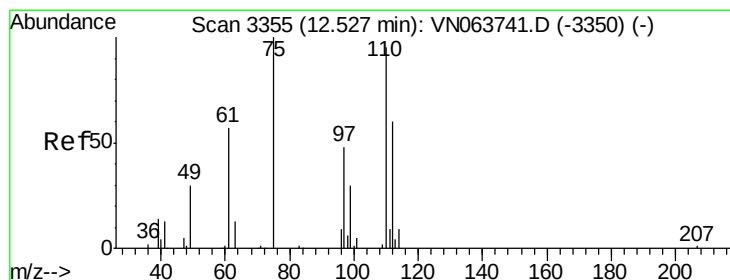
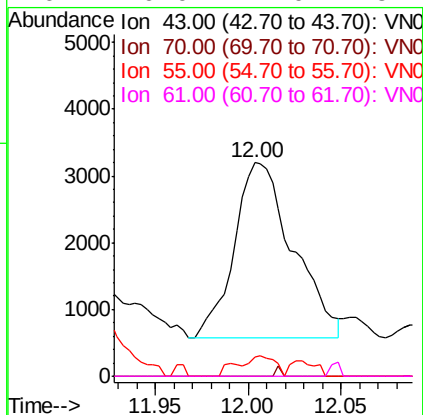
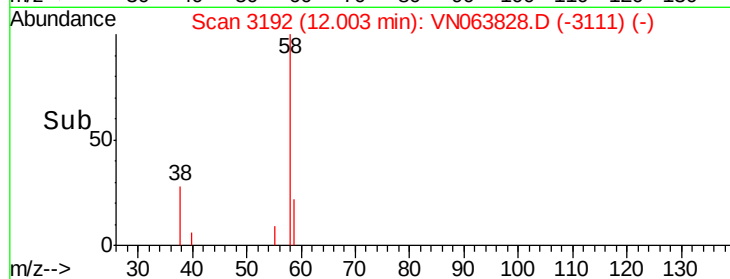
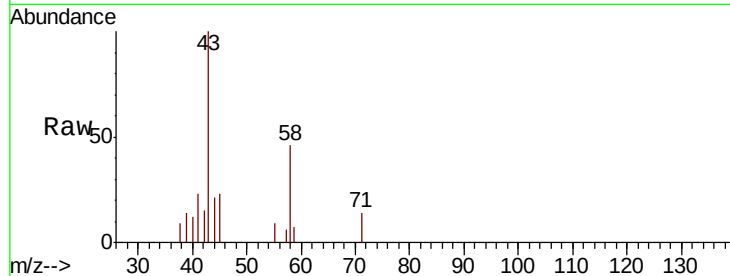
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 5.0 17.9 26.9#

61 0.0 17.0 25.4#



#76

1,2,3-Trichloropropane

Concen: 31.071 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063828.D

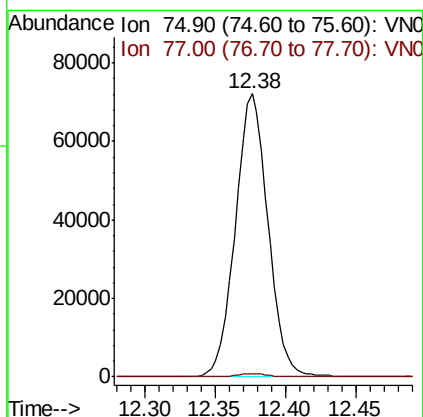
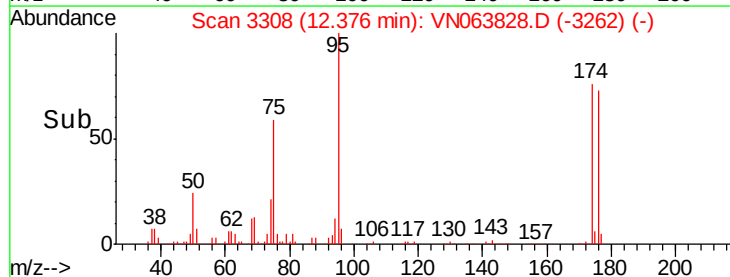
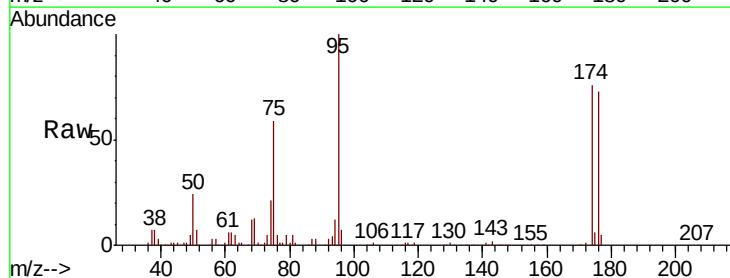
Acq: 2 Oct 2020 17:56

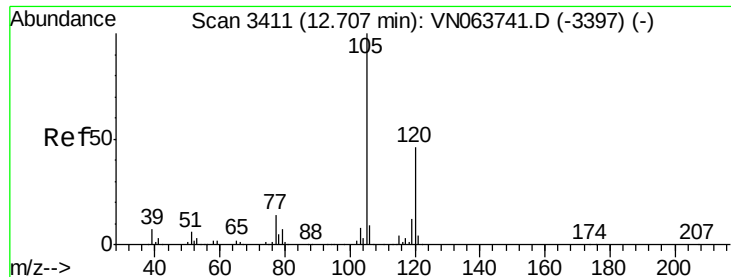
Tgt Ion: 75 Resp: 117045

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#

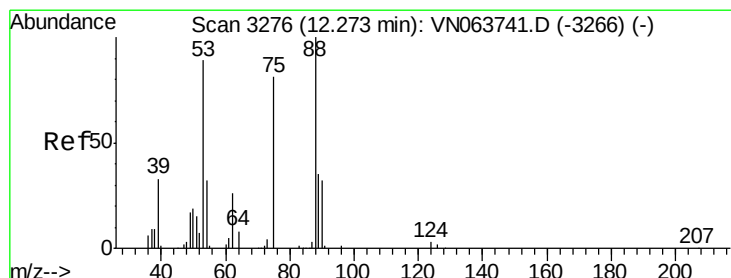
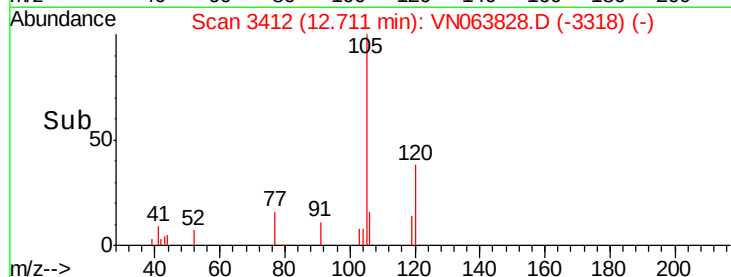
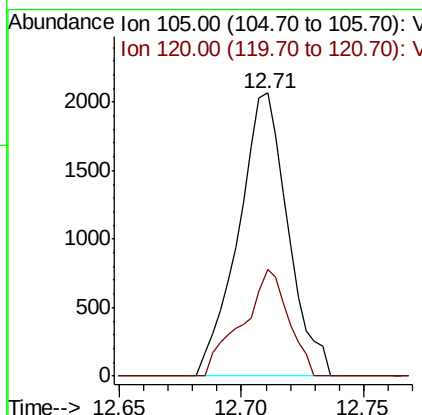
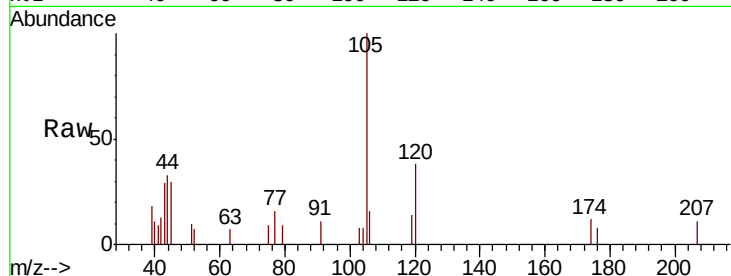




#80
 1,3,5-Trimethylbenzene
 Concen: 0.278 ug/l
 RT: 12.71 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: VN063828.D
 Acq: 2 Oct 2020 17:56

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132030ZHE#07

Tot Ion:105 Resp: 2908
 Ion Ratio Lower Upper
 105 100
 120 35.4 23.3 69.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 89.488 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063828.D
 Acq: 2 Oct 2020 17:56

Tgt Ion: 75 Resp: 117045
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.2 132.2#
 89 0.0 36.0 54.0#

