

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100520\
 Data File : VN063881.D
 Acq On : 5 Oct 2020 19:20
 Operator : JC/MD
 Sample : PB132063ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#13

Quant Time: Oct 06 01:40:39 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	225715	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	436816	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	457727	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	180652	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	204809	54.92	ug/l	0.00
Spiked Amount			Recovery	=	109.84%	
35) Dibromofluoromethane	7.55	113	145324	47.95	ug/l	0.00
Spiked Amount			Recovery	=	95.90%	
50) Toluene-d8	10.06	98	564070	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
62) 4-Bromofluorobenzene	12.38	95	222351	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	243	0.590	ug/l #	71
16) Acetone	3.78	43	10021	8.730	ug/l	90
17) Carbon Disulfide	4.01	76	146	0.724	ug/l #	76
18) Methyl Acetate	4.29	43	2739	0.919	ug/l #	65
20) Methylene Chloride	4.51	84	9836	3.832	ug/l	87
25) 2-Butanone	6.80	43	2116	1.300	ug/l	98
31) Cyclohexane	7.63	56	6405	1.480	ug/l #	36
36) 1,1-Dichloropropene	7.63	75	20753	4.690	ug/l #	47
38) Carbon Tetrachloride	7.63	117	25311	5.101	ug/l #	14
43) Isopropyl Acetate	8.13	43	84708	11.680	ug/l	100
48) Methyl methacrylate	9.15	41	5494	1.533	ug/l #	12
49) 1,4-Dioxane	9.23	88	30	0.589	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	9160	2.152	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	32322	5.941	ug/l #	68
56) Ethyl methacrylate	10.51	69	2497	0.562	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5654	1.066	ug/l #	43
59) 2-Hexanone	10.74	43	102632	32.463	ug/l #	55
74) N-amyl acetate	12.01	43	4634	2.939	ug/l #	47
76) 1,2,3-Trichloropropane	12.38	75	124510	31.266	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3205	0.290	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.38	75	124510	90.051	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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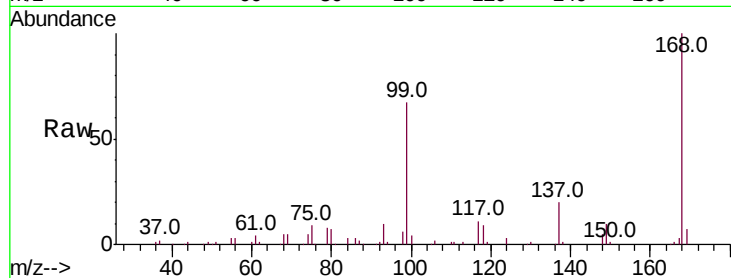
PB132063ZHE#13

Tot Ion:168 Resp: 225715

Ion Ratio Lower Upper

168 100

99 66.8 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

100000

80000

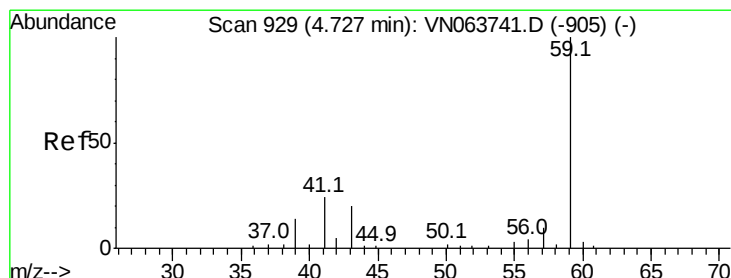
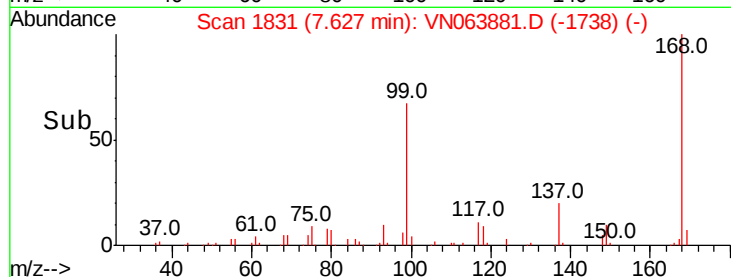
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.590 ug/l

RT: 4.74 min Scan# 932

Delta R.T. 0.01 min

Lab File: VN063881.D

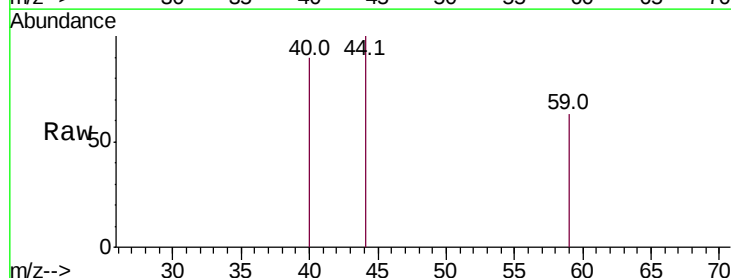
Acq: 5 Oct 2020 19:20

Tgt Ion: 59 Resp: 243

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

250

200

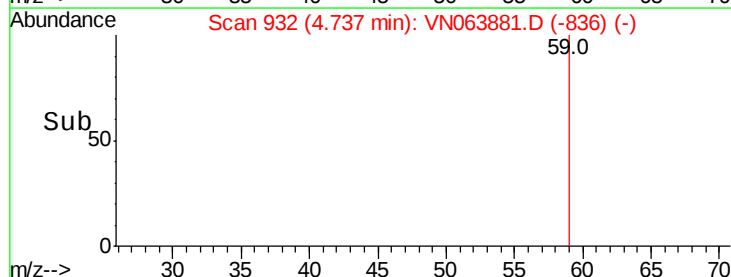
150

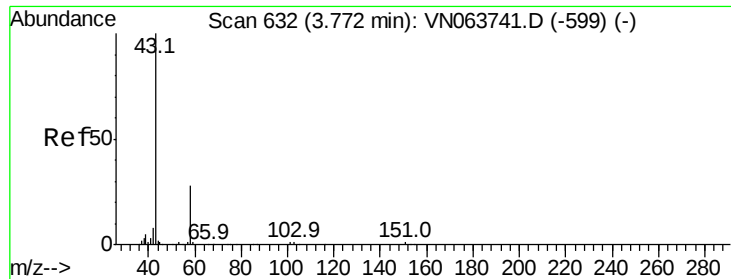
100

50

0

Time--> 4.72 4.74 4.76





#16

Acetone

Concen: 8.730 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063881.D

Acq: 5 Oct 2020 19:20

Instrument :

MSVOA_N

ClientSampleId :

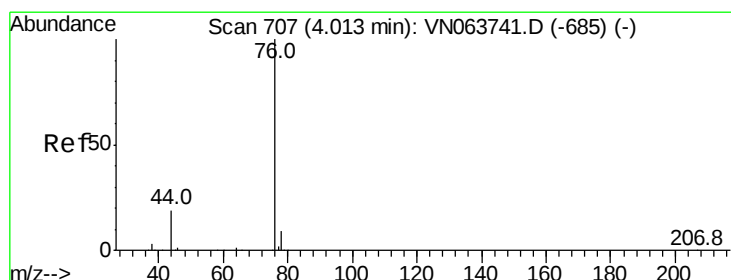
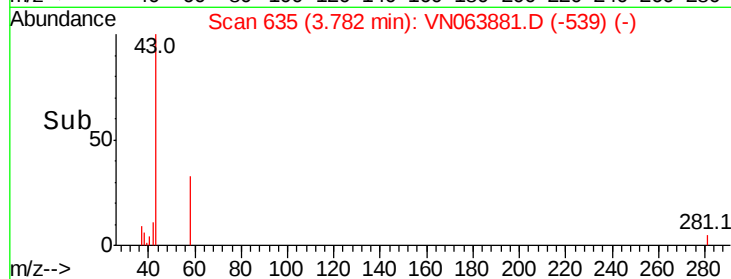
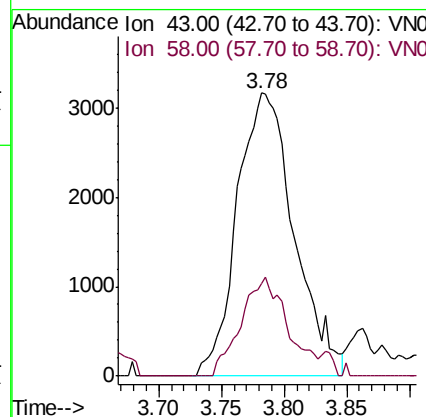
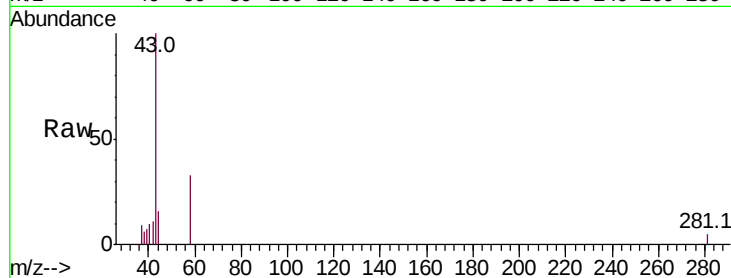
PB132063ZHE#13

Tot Ion: 43 Resp: 10021

Ion Ratio Lower Upper

43 100

58 33.0 22.3 33.5



#17

Carbon Disulfide

Concen: 0.724 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN063881.D

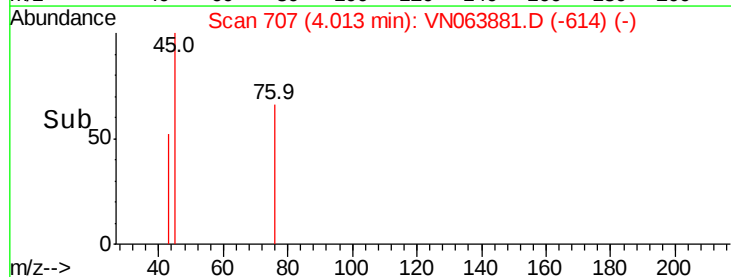
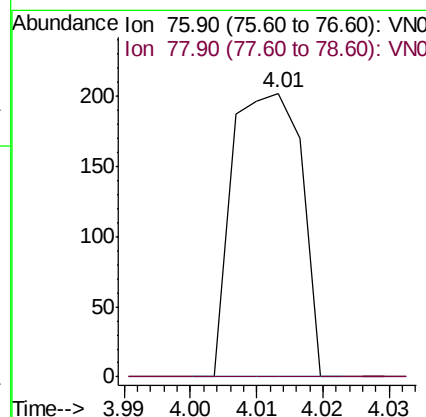
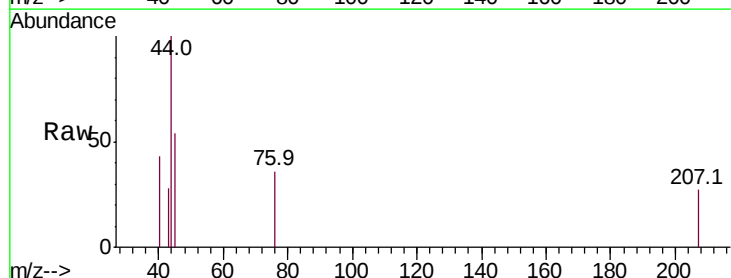
Acq: 5 Oct 2020 19:20

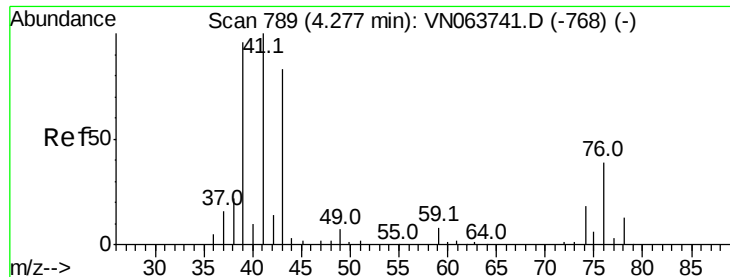
Tgt Ion: 76 Resp: 146

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#

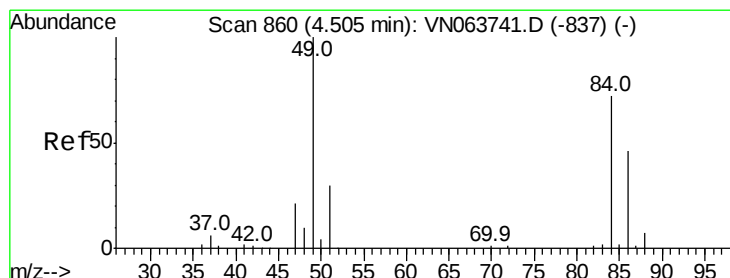
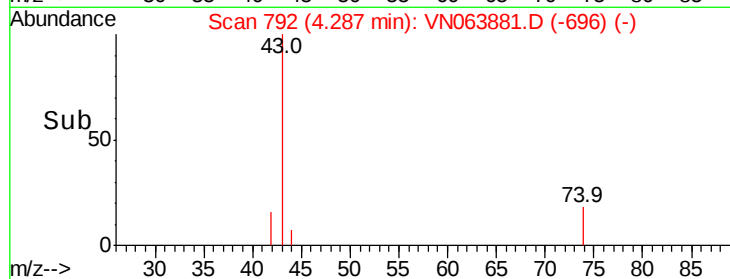
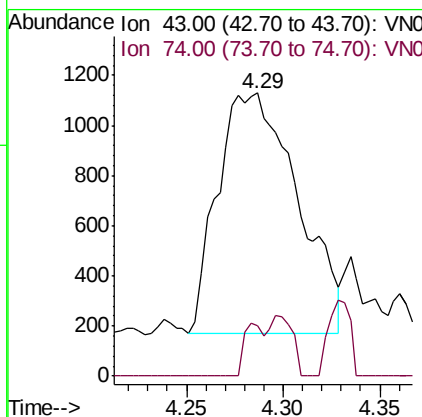
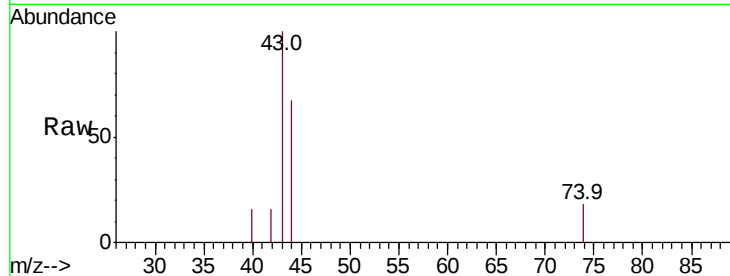




#18
Methyl Acetate
Concen: 0.919 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063881.D
Acq: 5 Oct 2020 19:20

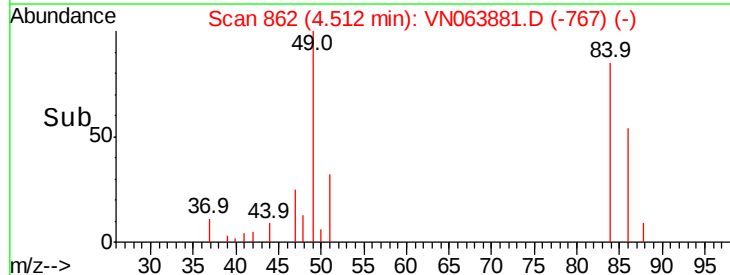
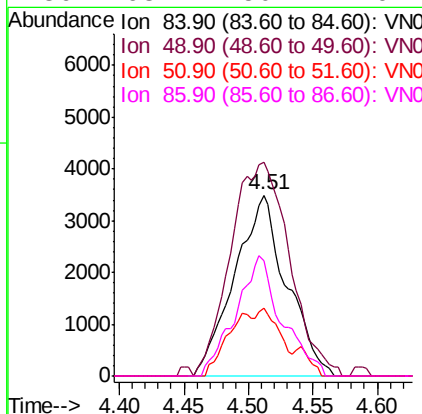
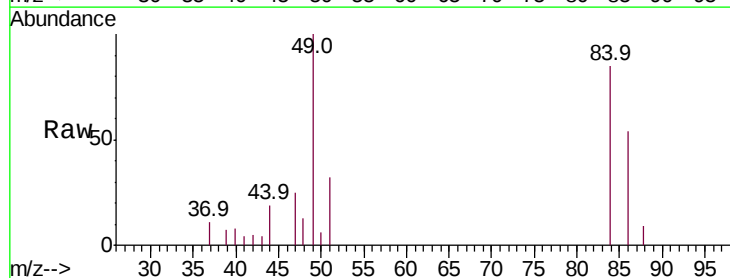
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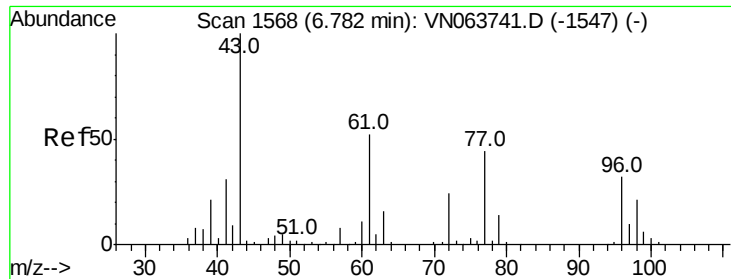
Tot Ion: 43 Resp: 2739
Ion Ratio Lower Upper
43 100
74 5.3 17.4 26.2#



#20
Methylene Chloride
Concen: 3.832 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN063881.D
Acq: 5 Oct 2020 19:20

Tgt Ion: 84 Resp: 9836
Ion Ratio Lower Upper
84 100
49 113.6 110.4 165.6
51 37.4 33.3 49.9
86 63.7 50.7 76.1

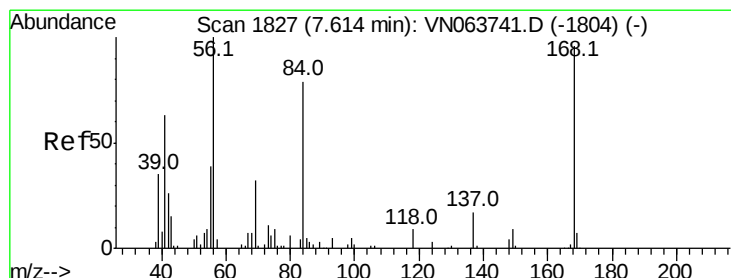
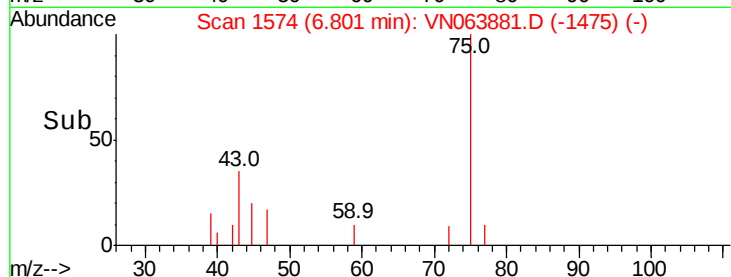
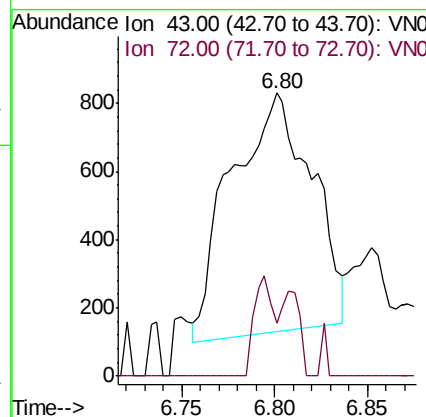
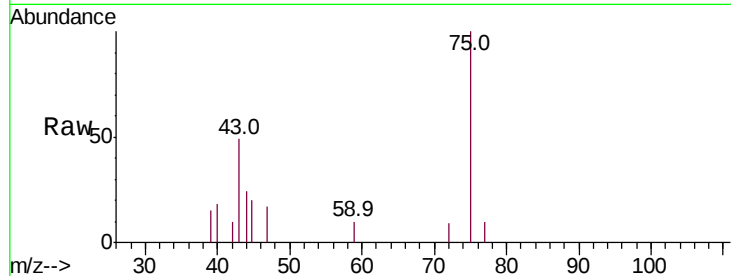




#25
2-Butanone
Concen: 1.300 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN063881.D
Acq: 5 Oct 2020 19:20

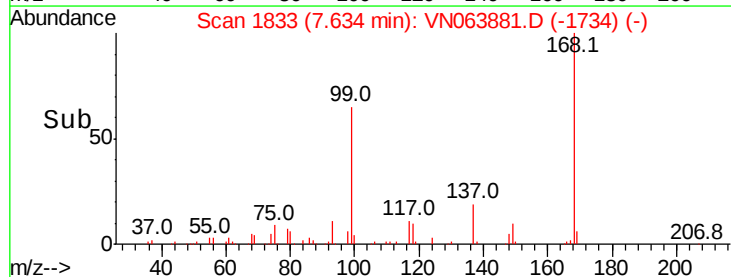
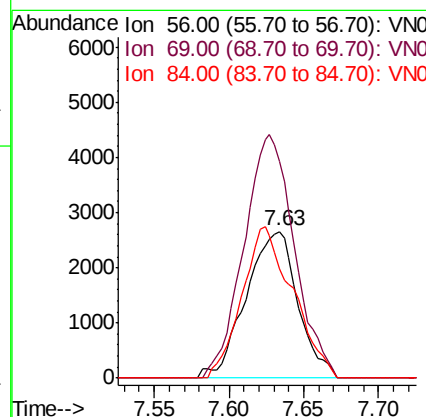
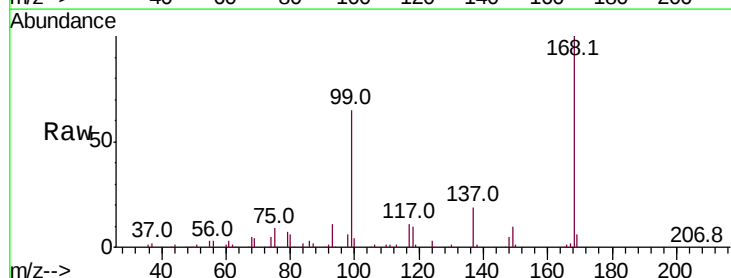
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#13

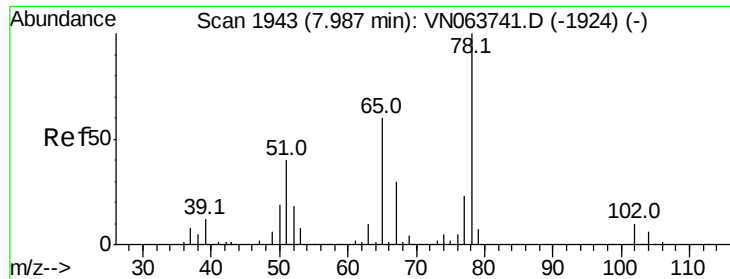
Tot Ion: 43 Resp: 2116
Ion Ratio Lower Upper
43 100
72 23.3 19.3 28.9



#31
Cyclohexane
Concen: 1.480 ug/l
RT: 7.63 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN063881.D
Acq: 5 Oct 2020 19:20

Tgt Ion: 56 Resp: 6405
Ion Ratio Lower Upper
56 100
69 147.8 25.4 38.2#
84 74.3 63.3 94.9

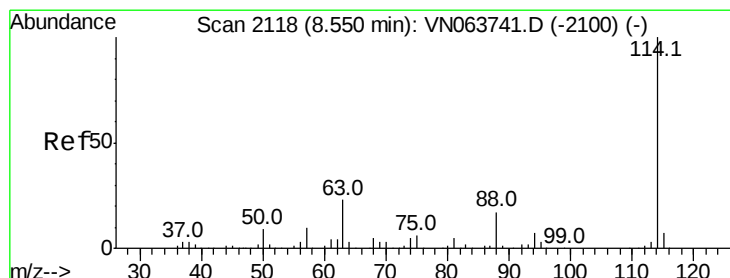
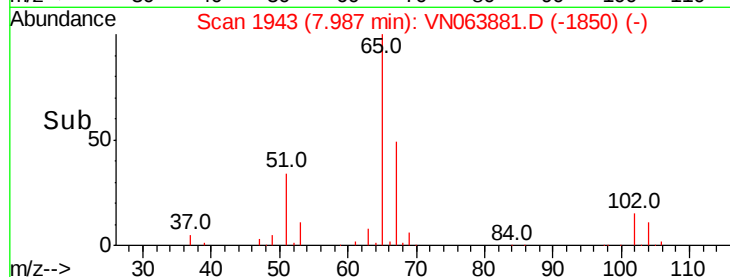
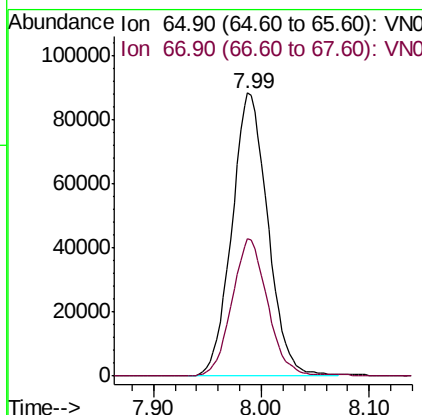
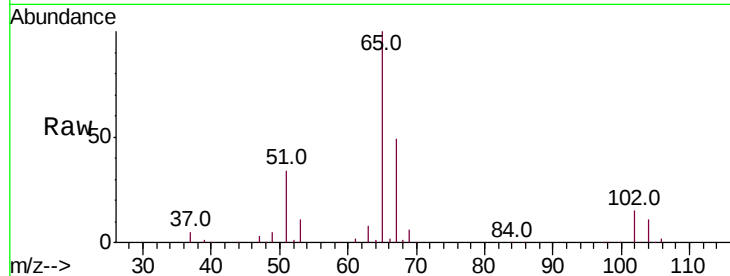




#33
 1,2-Dichloroethane-d4
 Concen: 54.924 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN063881.D
 Acq: 5 Oct 2020 19:20

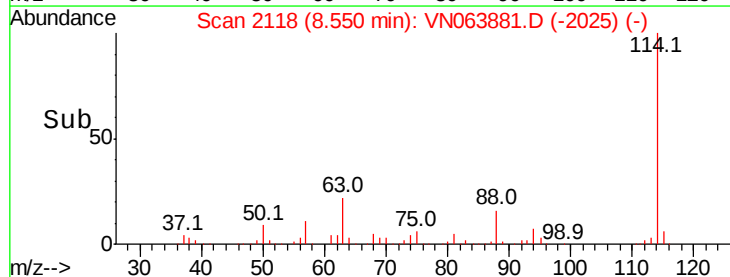
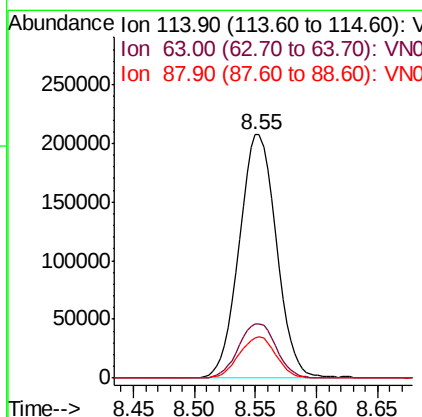
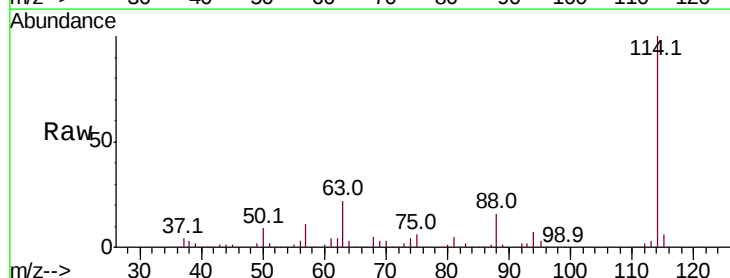
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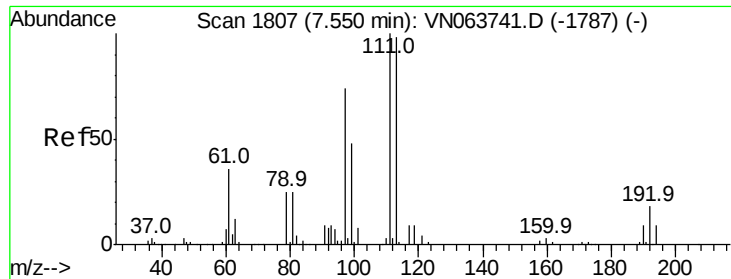
Tot Ion: 65 Resp: 204809
 Ion Ratio Lower Upper
 65 100
 67 48.0 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063881.D
 Acq: 5 Oct 2020 19:20

Tgt Ion: 114 Resp: 436816
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 45.0
 88 16.4 0.0 34.0

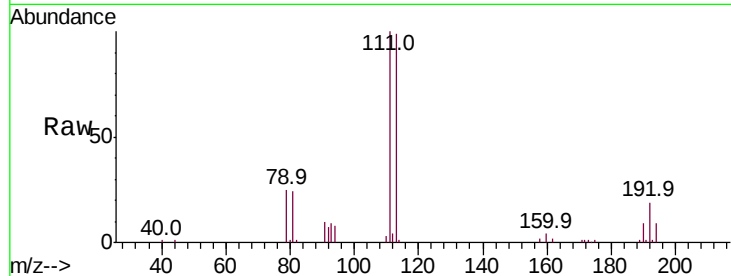




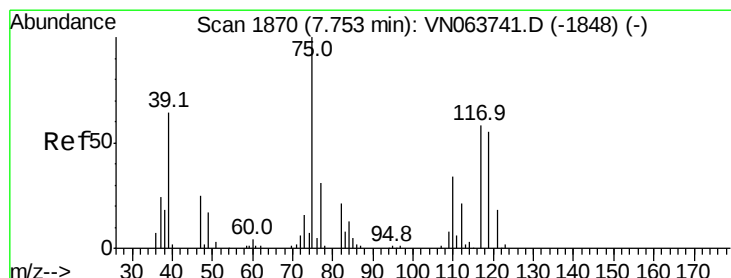
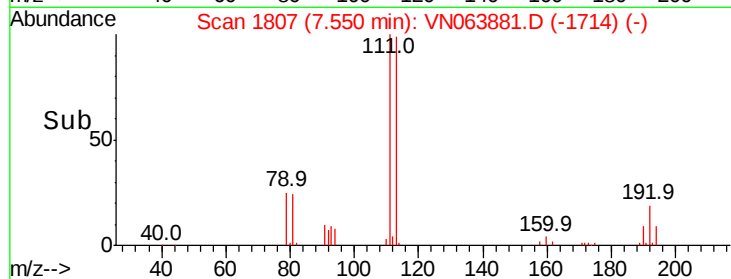
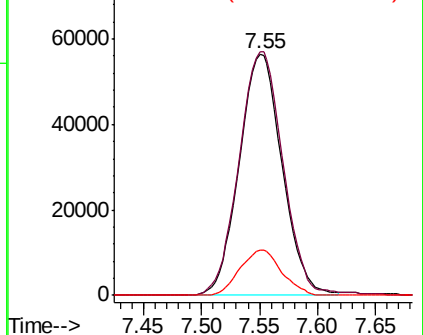
#35
 Dibromofluoromethane
 Concen: 47.946 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063881.D
 Acq: 5 Oct 2020 19:20

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#13

Tot Ion:113 Resp: 145324
 Ion Ratio Lower Upper
 113 100
 111 103.4 81.8 122.8
 192 18.2 14.2 21.2

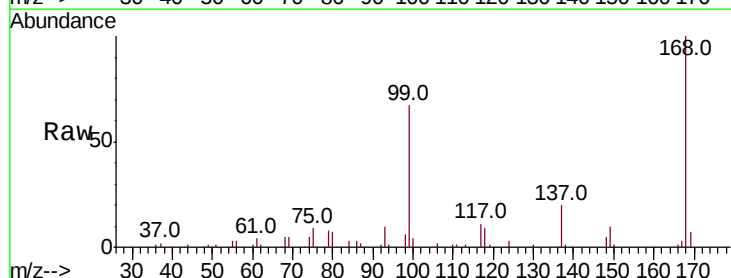


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

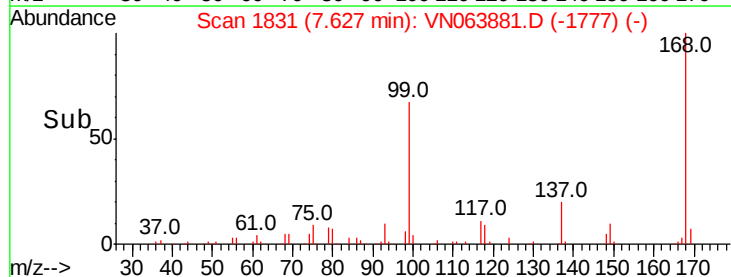
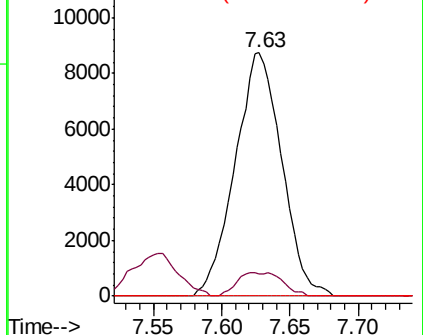


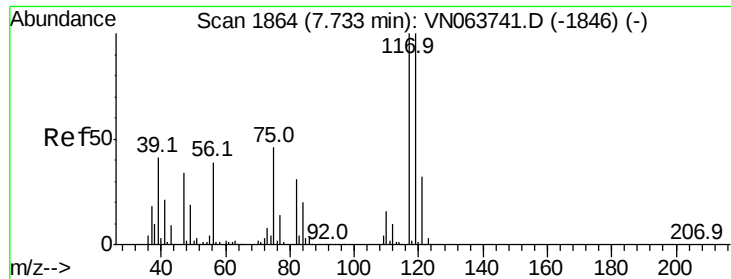
#36
 1,1-Dichloropropene
 Concen: 4.690 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063881.D
 Acq: 5 Oct 2020 19:20

Tgt Ion: 75 Resp: 20753
 Ion Ratio Lower Upper
 75 100
 110 4.8 16.9 50.6#
 77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

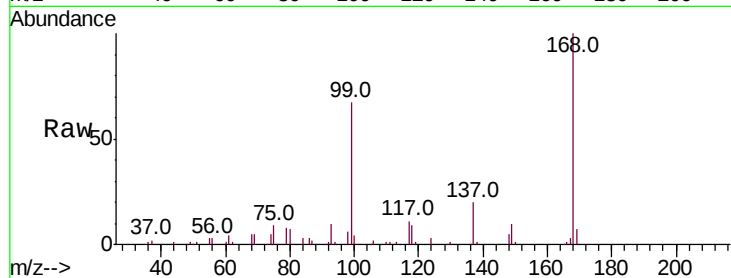




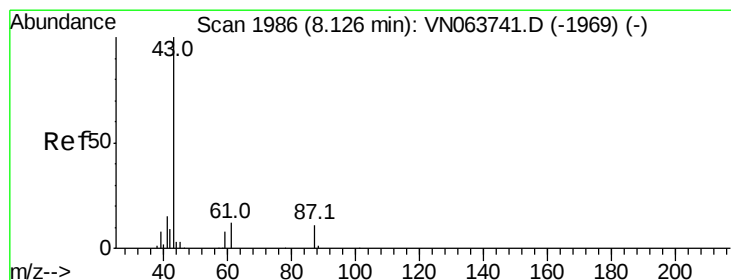
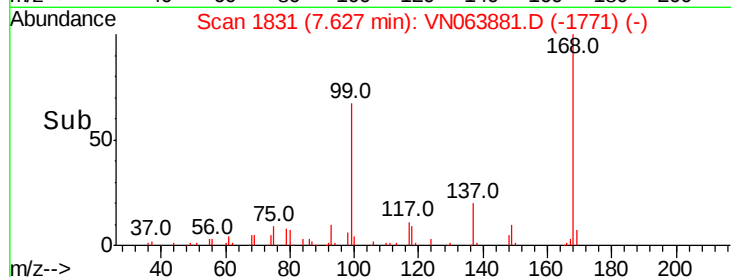
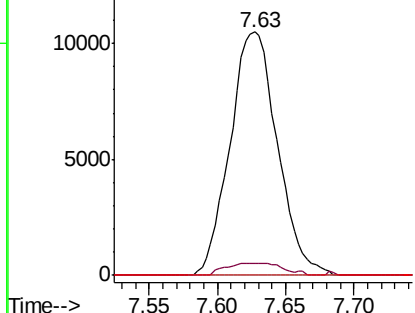
#38
Carbon Tetrachloride
Concen: 5.101 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063881.D
Acq: 5 Oct 2020 19:20

Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#13

Tot Ion:117 Resp: 25311
Ion Ratio Lower Upper
117 100
119 4.6 80.1 120.1#
121 0.0 25.7 38.5#

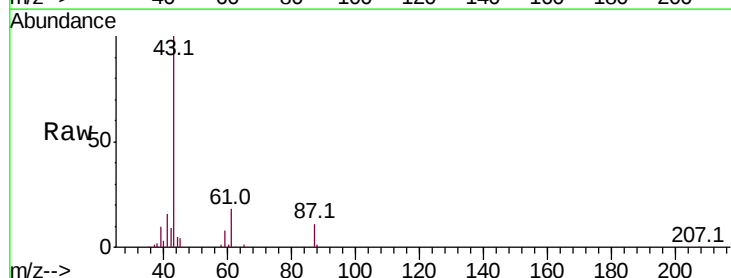


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

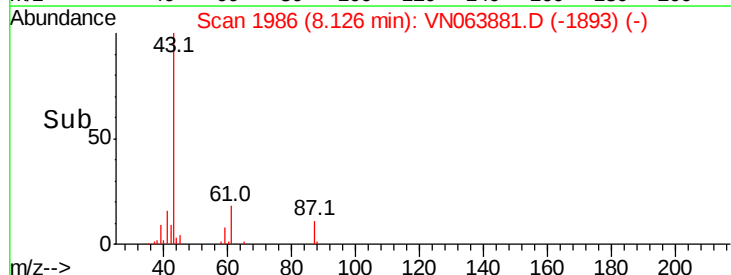
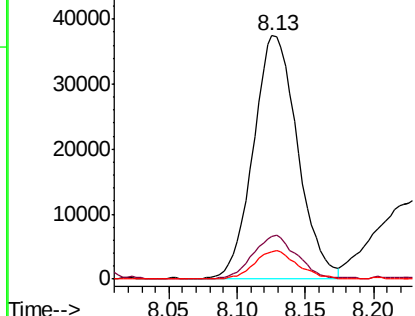


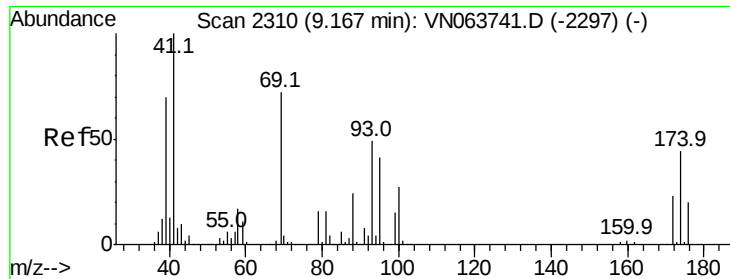
#43
Isopropyl Acetate
Concen: 11.680 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN063881.D
Acq: 5 Oct 2020 19:20

Tgt Ion: 43 Resp: 84708
Ion Ratio Lower Upper
43 100
61 17.8 14.2 21.4
87 11.2 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#48

Methyl methacrylate

Concen: 1.533 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN063881.D

Acq: 5 Oct 2020 19:20

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#13

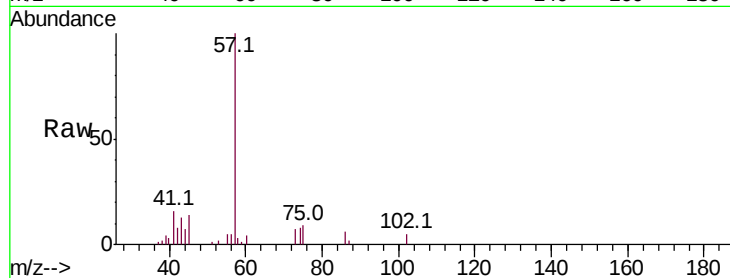
Tot Ion: 41 Resp: 5494

Ion Ratio Lower Upper

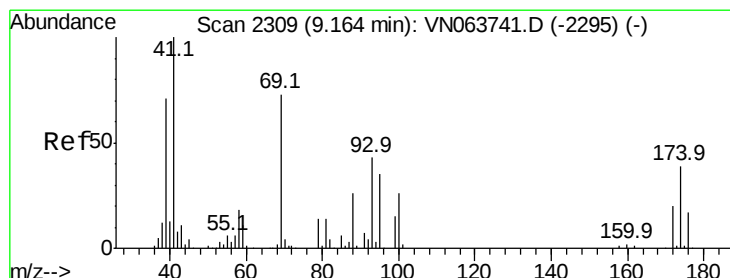
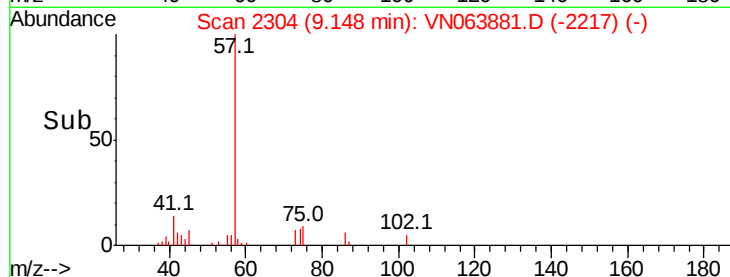
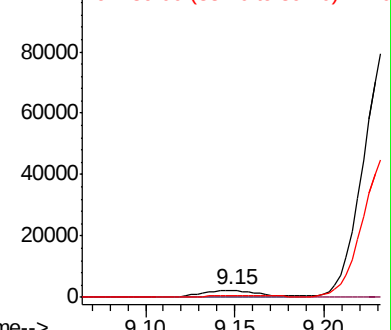
41 100

69 0.0 60.9 91.3#

39 0.0 57.5 86.3#



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



#49

1,4-Dioxane

Concen: 0.589 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN063881.D

Acq: 5 Oct 2020 19:20

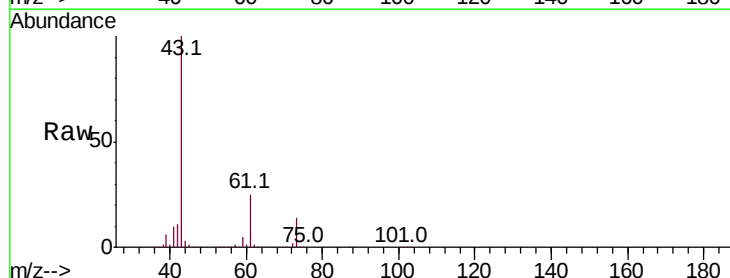
Tgt Ion: 88 Resp: 30

Ion Ratio Lower Upper

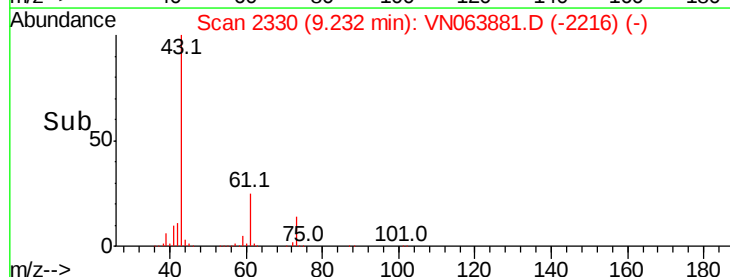
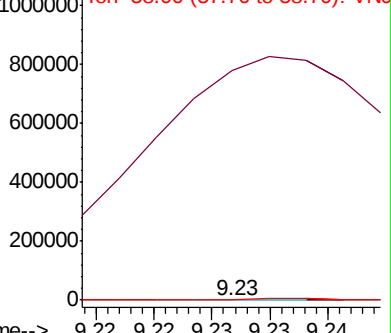
88 100

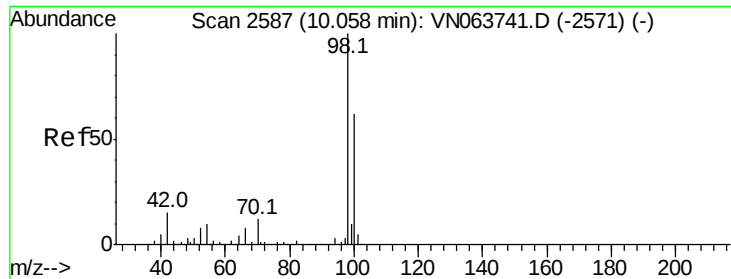
43 5056566.7 33.1 49.7#

58 24640.0 58.9 88.3#



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





#50

Toluene-d8

Concen: 49.092 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063881.D

Acq: 5 Oct 2020 19:20

Instrument :

MSVOA_N

ClientSampleId :

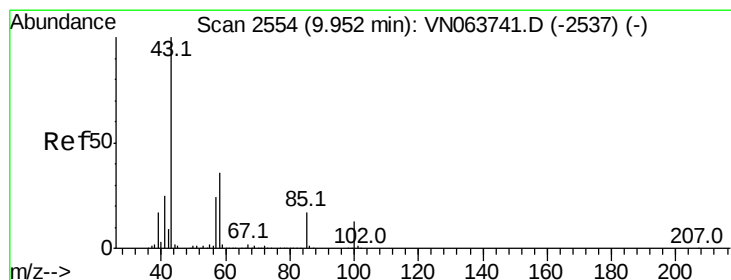
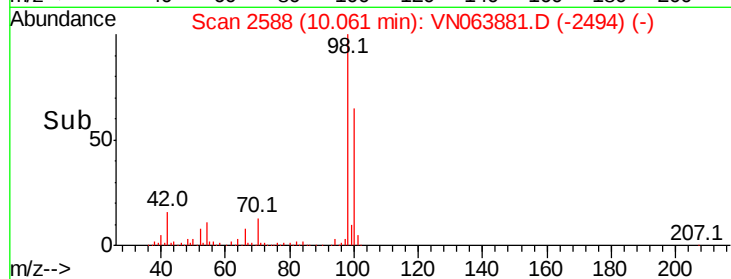
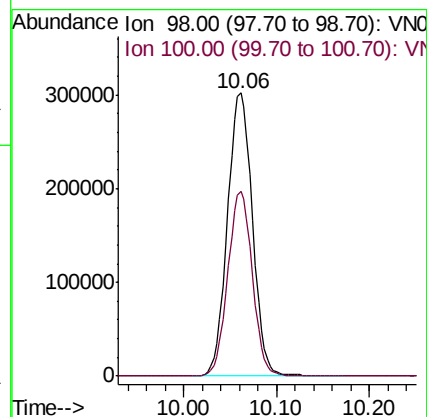
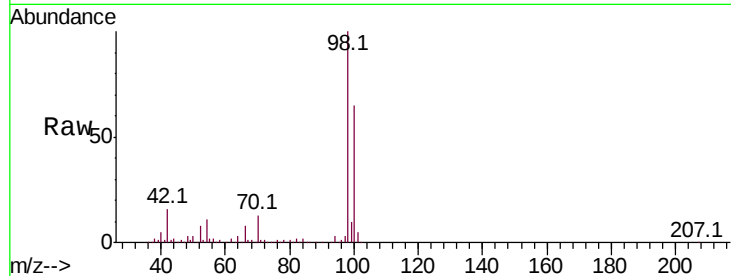
PB132063ZHE#13

Tot Ion: 98 Resp: 564070

Ion Ratio Lower Upper

98 100

100 64.3 49.8 74.6



#51

4-Methyl-2-Pentanone

Concen: 2.152 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN063881.D

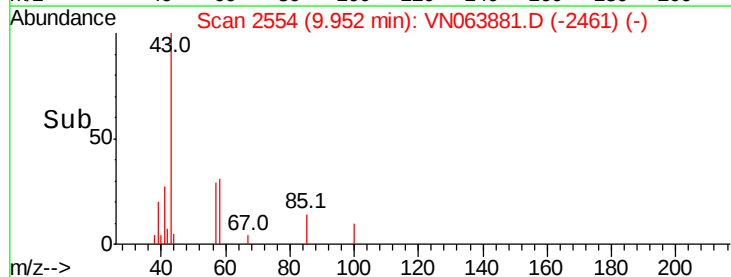
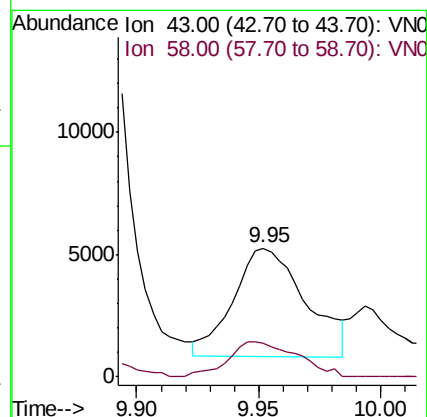
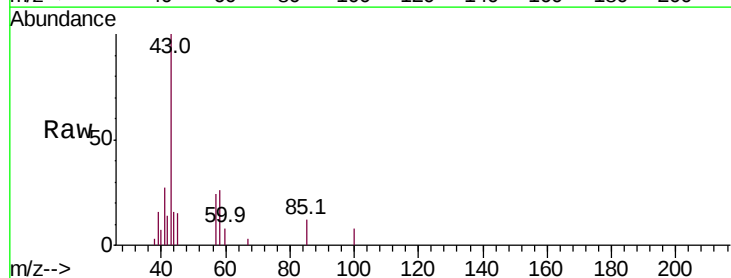
Acq: 5 Oct 2020 19:20

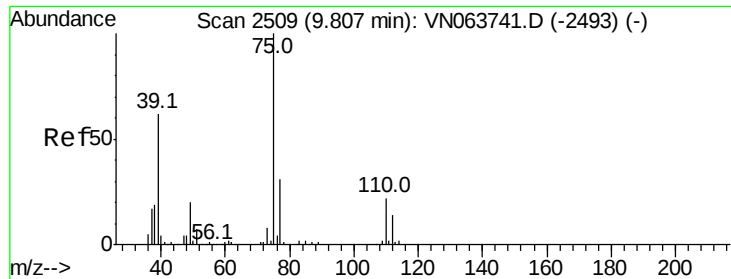
Tgt Ion: 43 Resp: 9160

Ion Ratio Lower Upper

43 100

58 31.0 28.4 42.6





#54

cis-1,3-Dichloropropene

Concen: 5.941 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063881.D

Acq: 5 Oct 2020 19:20

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#13

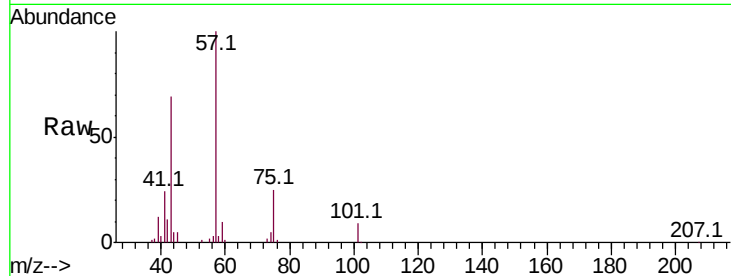
Tot Ion: 75 Resp: 32322

Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

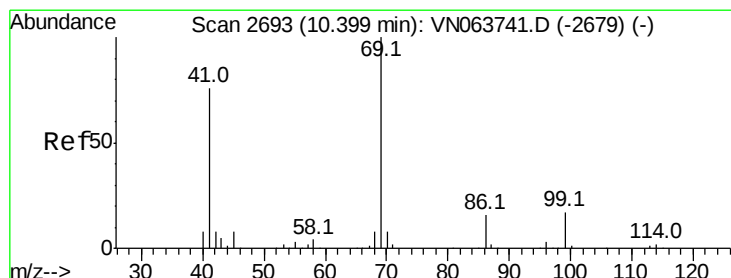
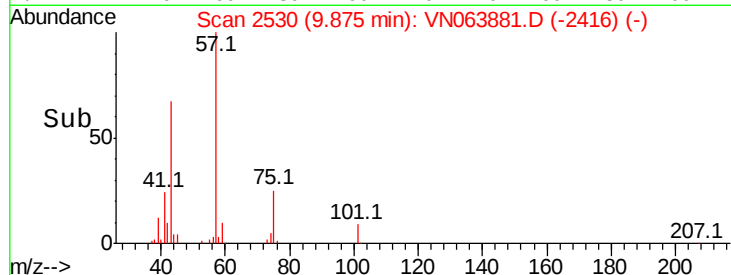
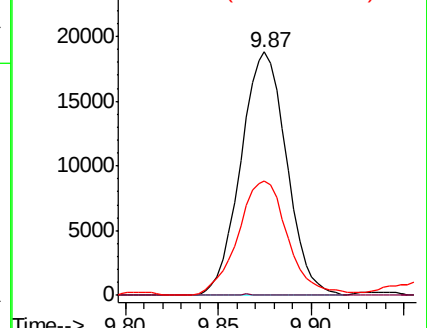
39 47.1 49.7 74.5#



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: 0.562 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063881.D

Acq: 5 Oct 2020 19:20

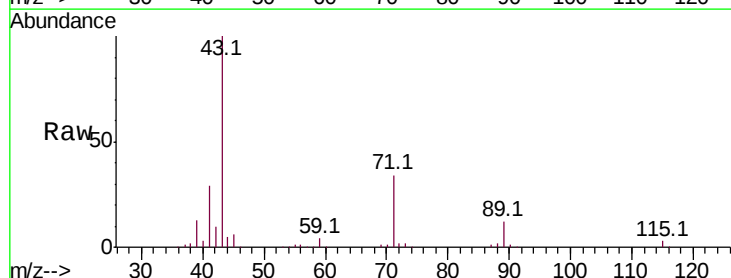
Tgt Ion: 69 Resp: 2497

Ion Ratio Lower Upper

69 100

41 4139.1 61.1 91.7#

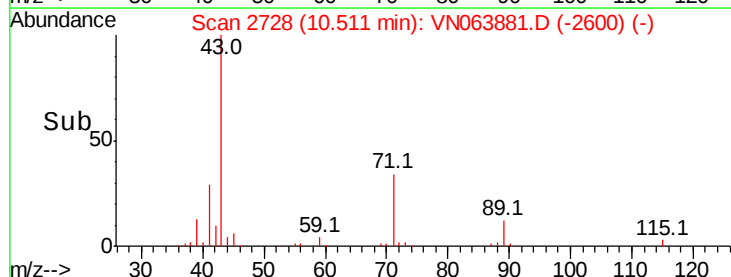
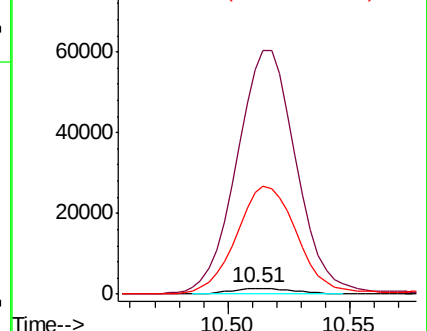
39 1835.5 42.2 63.4#

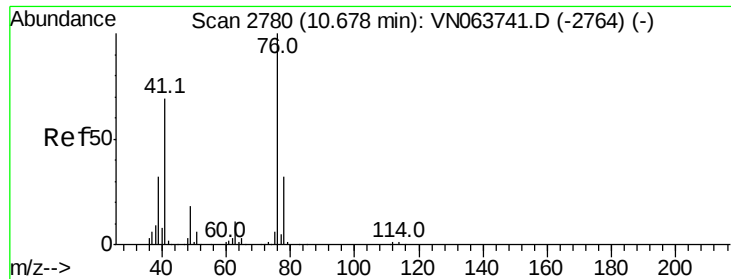


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.066 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063881.D

Acq: 5 Oct 2020 19:20

Instrument :

MSVOA_N

ClientSampleId :

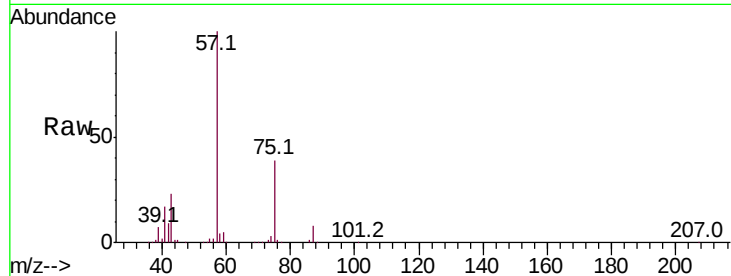
PB132063ZHE#13

Tot Ion: 76 Resp: 5654

Ion Ratio Lower Upper

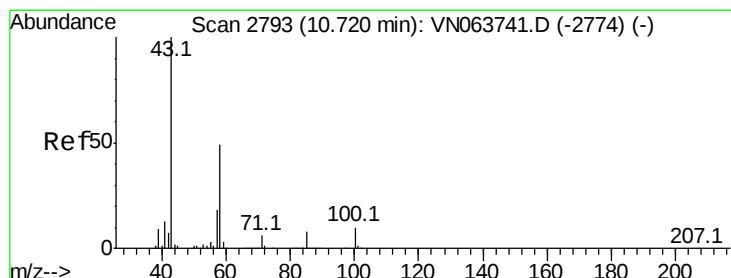
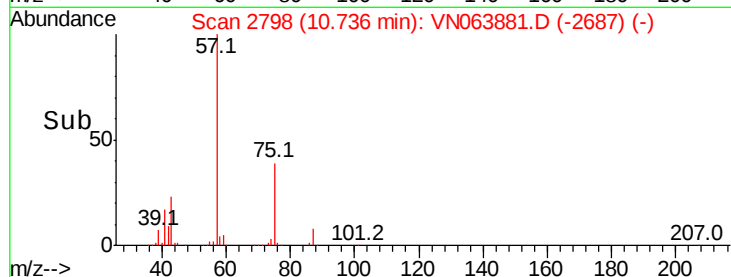
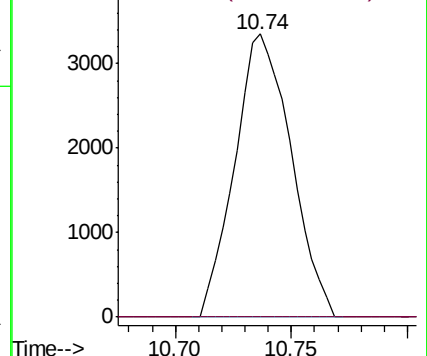
76 100

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: 32.463 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063881.D

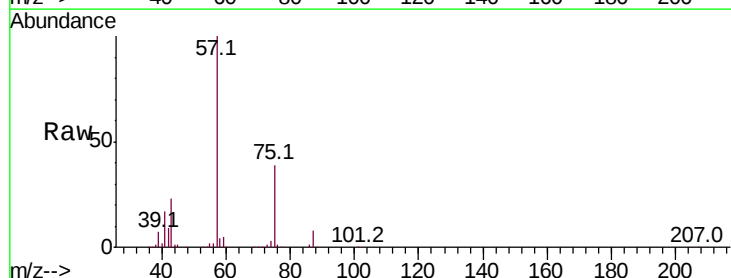
Acq: 5 Oct 2020 19:20

Tgt Ion: 43 Resp: 102632

Ion Ratio Lower Upper

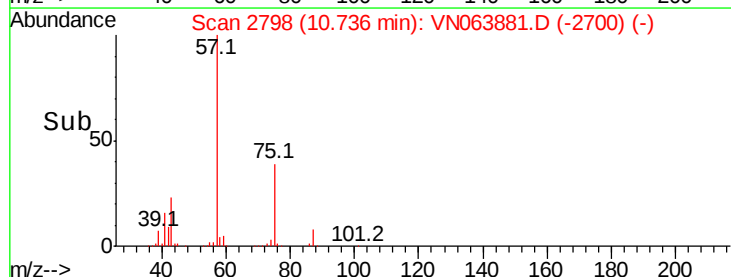
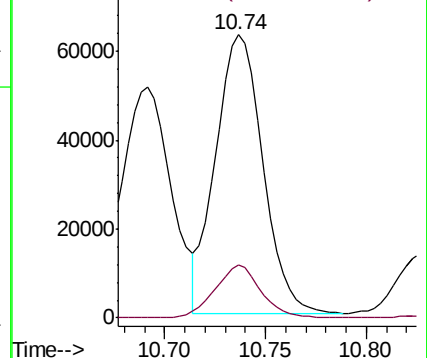
43 100

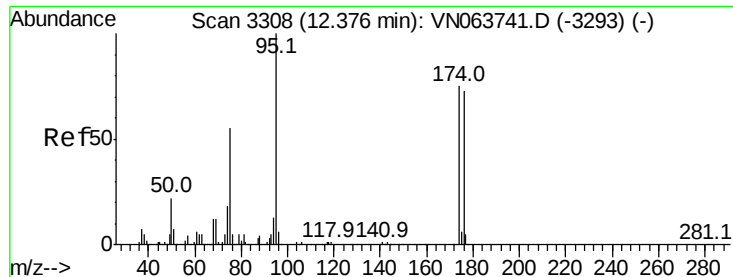
58 18.3 24.6 73.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

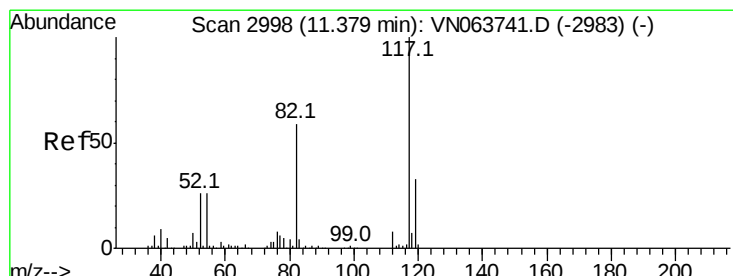
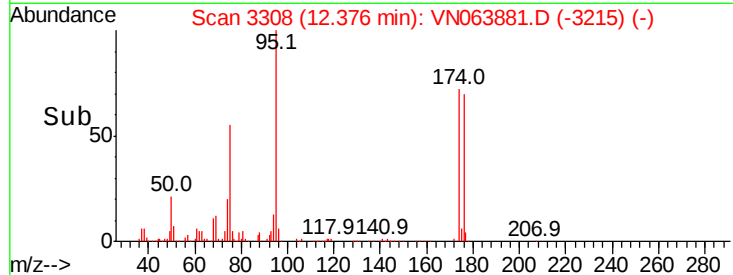
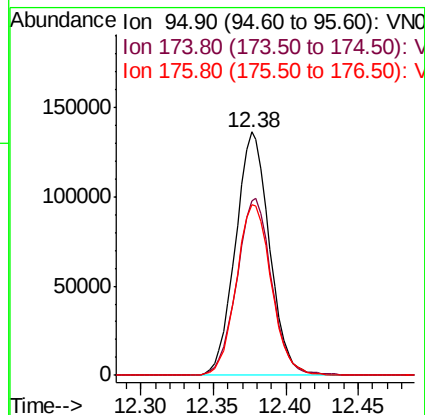
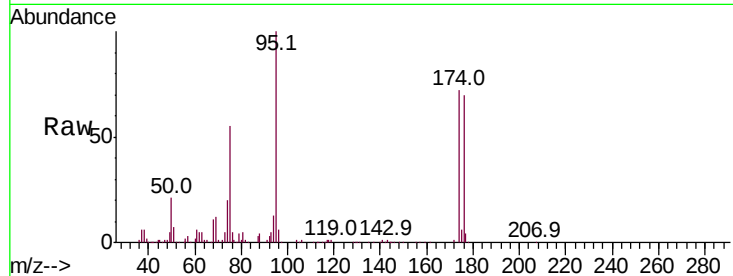




#62
4-Bromofluorobenzene
Concen: 51.479 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063881.D
Acq: 5 Oct 2020 19:20

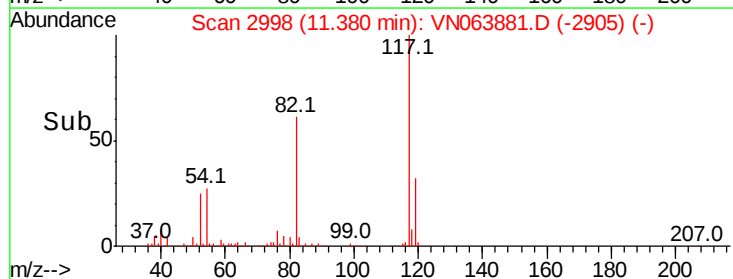
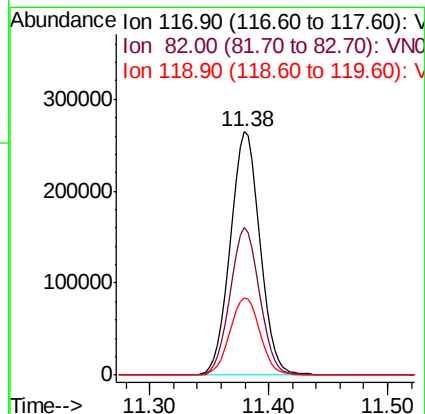
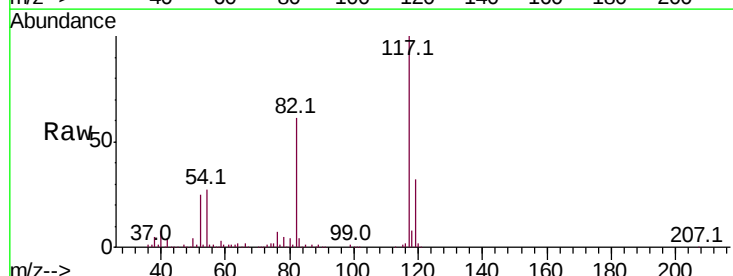
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#13

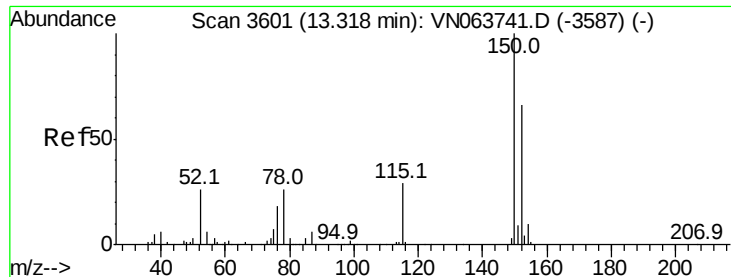
Tot Ion: 95 Resp: 222351
Ion Ratio Lower Upper
95 100
174 74.4 0.0 150.6
176 72.2 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063881.D
Acq: 5 Oct 2020 19:20

Tgt Ion: 117 Resp: 457727
Ion Ratio Lower Upper
117 100
82 60.6 47.4 71.2
119 31.9 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: VN063881.D

Acq: 5 Oct 2020 19:20

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#13

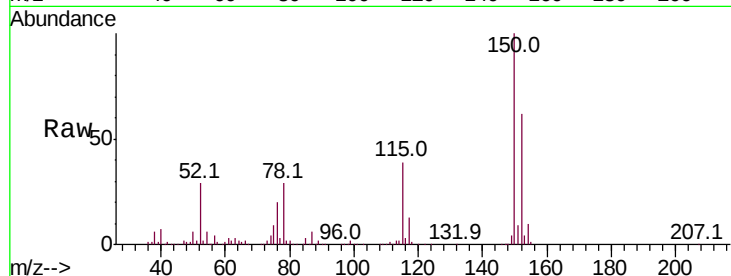
Tot Ion:152 Resp: 180652

Ion Ratio Lower Upper

152 100

115 62.6 31.3 93.8

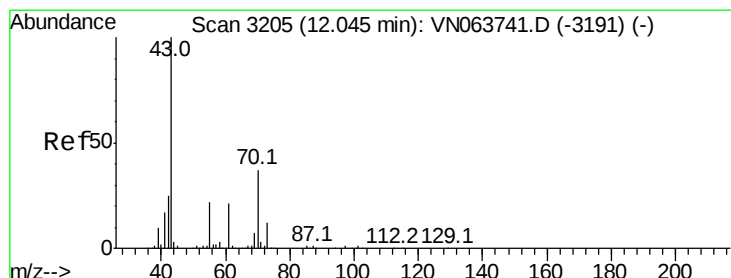
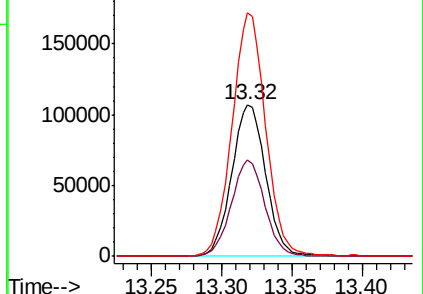
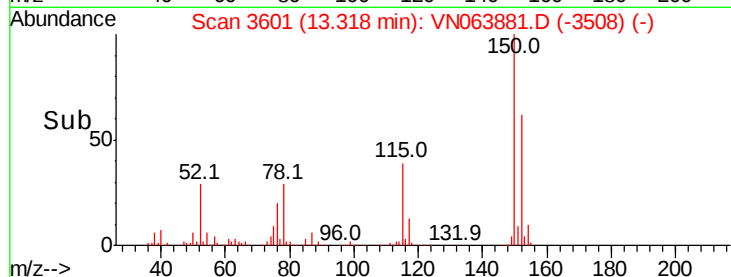
150 158.9 0.0 341.8



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: 2.939 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063881.D

Acq: 5 Oct 2020 19:20

Tgt Ion: 43 Resp: 4634

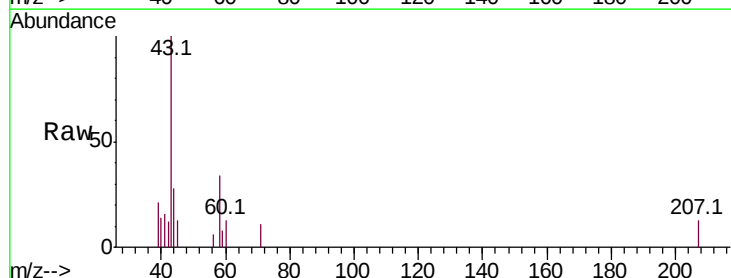
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 1.5 17.9 26.9#

61 0.0 17.0 25.4#

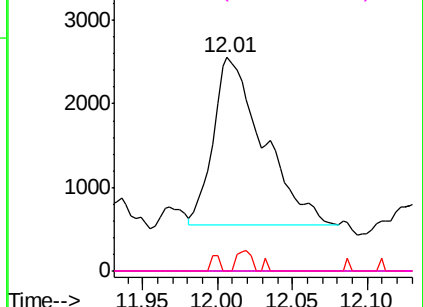
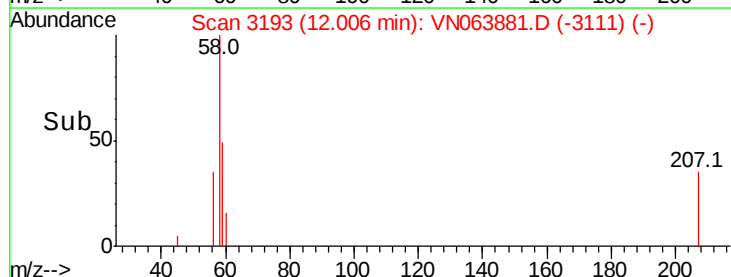


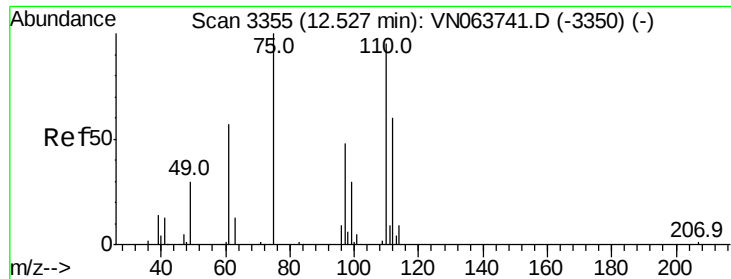
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

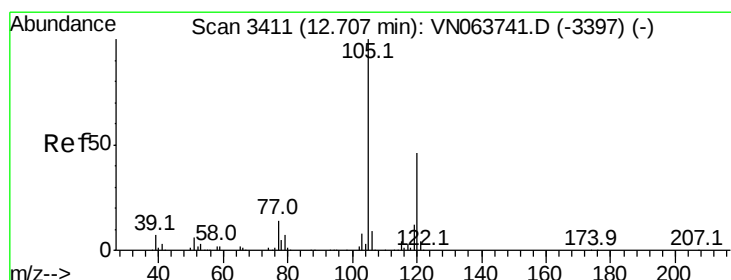
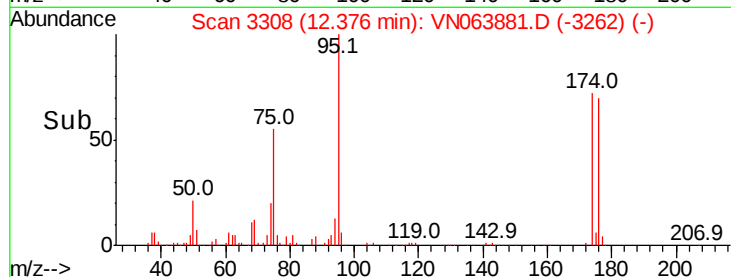
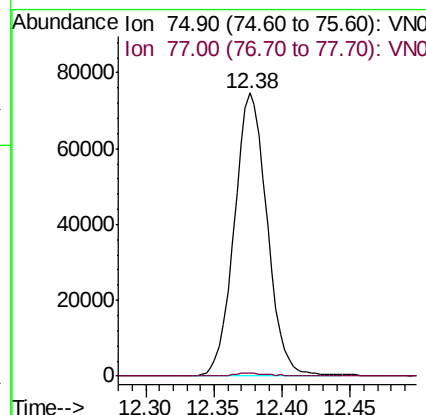
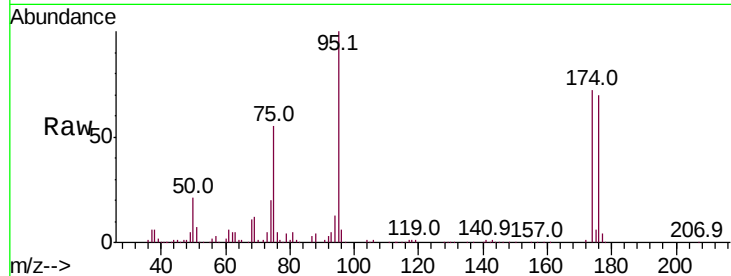




#76
 1,2,3-Trichloropropane
 Concen: 31.266 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063881.D
 Acq: 5 Oct 2020 19:20

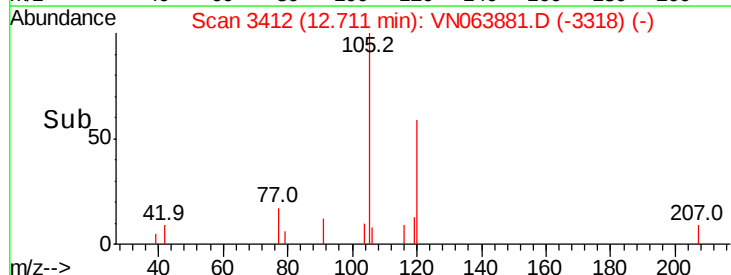
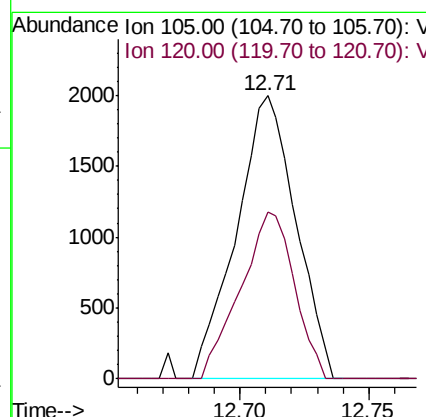
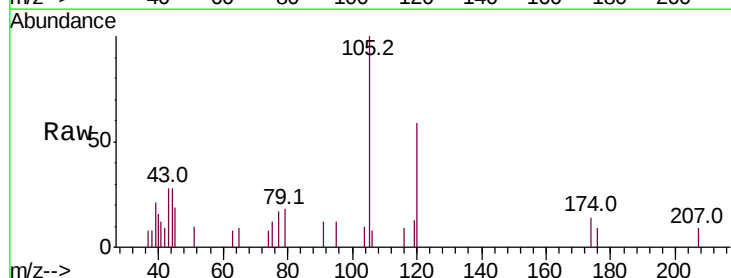
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#13

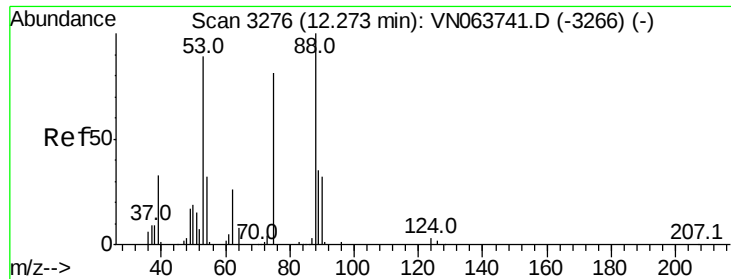
Tot Ion: 75 Resp: 124510
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.290 ug/l
 RT: 12.71 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: VN063881.D
 Acq: 5 Oct 2020 19:20

Tgt Ion: 105 Resp: 3205
 Ion Ratio Lower Upper
 105 100
 120 53.5 23.3 69.9





#81

trans-1,4-Dichloro-2-butene

Concen: 90.051 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063881.D

Acq: 5 Oct 2020 19:20

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#13

Tot Ion: 75 Resp: 124510

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.0 36.0 54.0#

