

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102820\
 Data File : VN064353.D
 Acq On : 28 Oct 2020 15:33
 Operator : JC/MD
 Sample : PB132665ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132665ZHE#05

Quant Time: Oct 29 02:42:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 12:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	249234	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	432197	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	433353	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	177620	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.98	65	193539	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
35) Dibromofluoromethane	7.55	113	139250	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
50) Toluene-d8	10.06	98	533200	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
62) 4-Bromofluorobenzene	12.38	95	223756	53.83	ug/l	0.00
Spiked Amount			Recovery	=	107.66%	

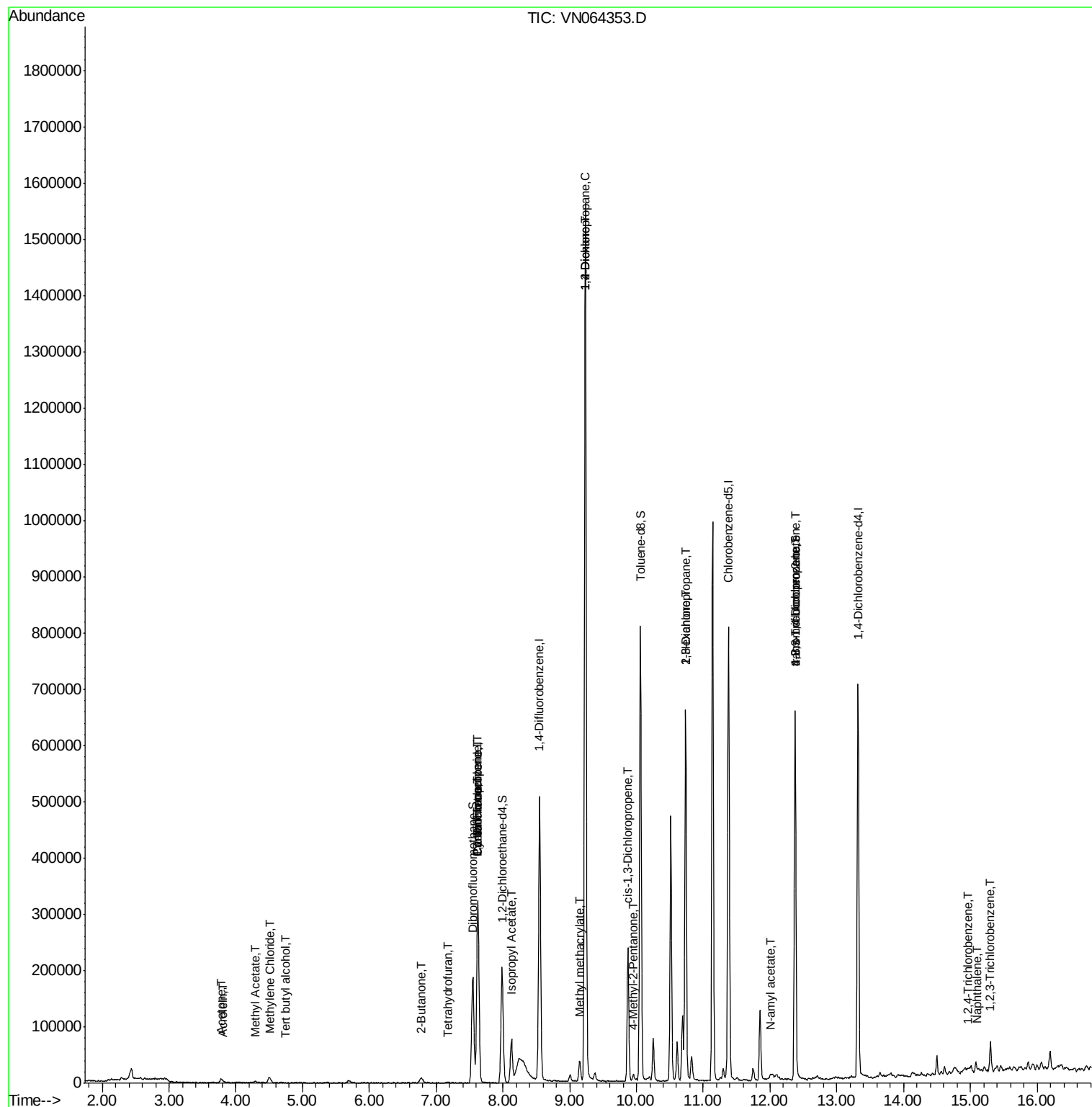
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	128	0.220	ug/l #	70
13) Acrolein	3.82	56	68	18.180	ug/l #	10
16) Acetone	3.78	43	12668	1.990	ug/l #	85
18) Methyl Acetate	4.29	43	5217	1.734	ug/l #	73
20) Methylene Chloride	4.50	84	7552	2.659	ug/l #	89
25) 2-Butanone	6.79	43	2334	1.161	ug/l #	52
29) Tetrahydrofuran	7.17	42	1095	0.839	ug/l #	64
31) Cyclohexane	7.63	56	6178	1.329	ug/l #	25
36) 1,1-Dichloropropene	7.63	75	19930	4.569	ug/l #	53
38) Carbon Tetrachloride	7.62	117	27162	5.371	ug/l #	17
43) Isopropyl Acetate	8.13	43	98543	13.084	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	1665	0.512	ug/l #	44
48) Methyl methacrylate	9.15	41	5534	1.424	ug/l #	15
49) 1,4-Dioxane	9.23	88	65	1.135	ug/l #	20
51) 4-Methyl-2-Pentanone	9.95	43	8557	1.955	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	40024	7.295	ug/l #	61
57) 1,3-Dichloropropane	10.74	76	6648	1.289	ug/l #	42
59) 2-Hexanone	10.74	43	103747	32.176	ug/l #	53
74) N-amyl acetate	12.01	43	7002	1.196	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	123521	29.040	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	123521	83.650	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.95	180	30	2.027	ug/l #	1
95) Naphthalene	15.11	128	381	2.429	ug/l #	51
96) 1,2,3-Trichlorobenzene	15.28	180	74	2.205	ug/l	95

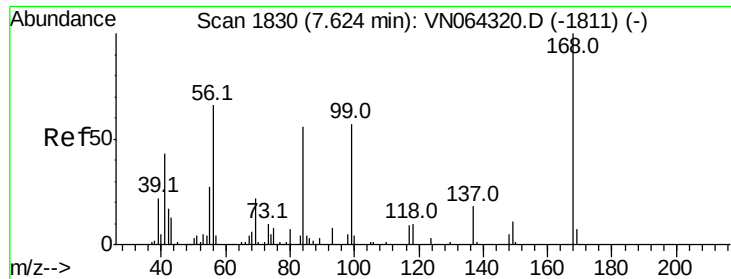
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Oct 27 12:23:17 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

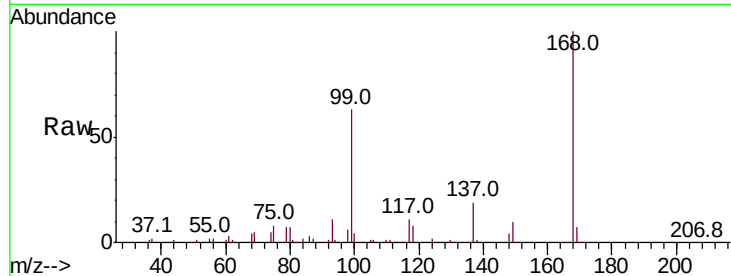
PB132665ZHE#05

Tot Ion:168 Resp: 249234

Ion Ratio Lower Upper

168 100

99 63.2 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

120000

100000

80000

60000

40000

20000

0

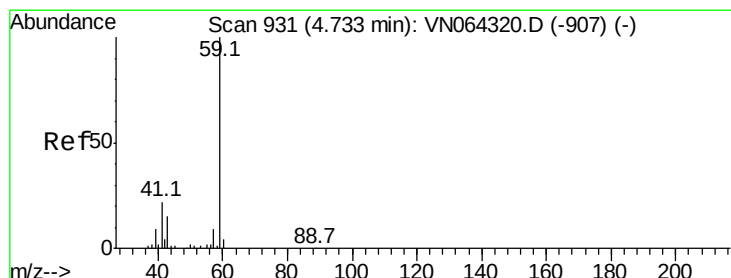
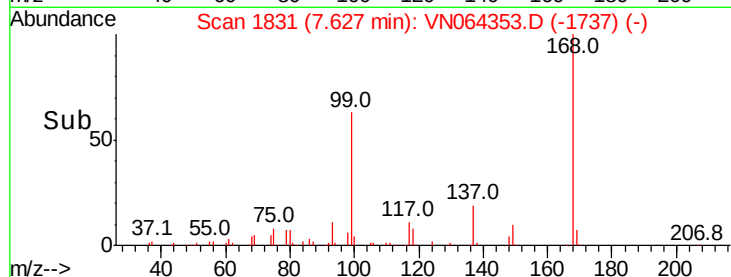
7.50

7.60

7.63

7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.220 ug/l

RT: 4.74 min Scan# 933

Delta R.T. 0.01 min

Lab File: VN064353.D

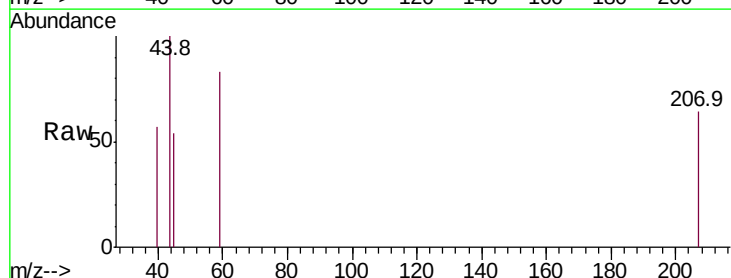
Acq: 28 Oct 2020 15:33

Tgt Ion: 59 Resp: 128

Ion Ratio Lower Upper

59 100

57 0.0 9.4 14.0#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

250

200

150

100

50

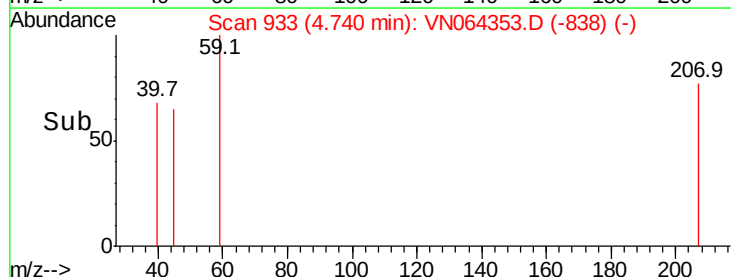
0

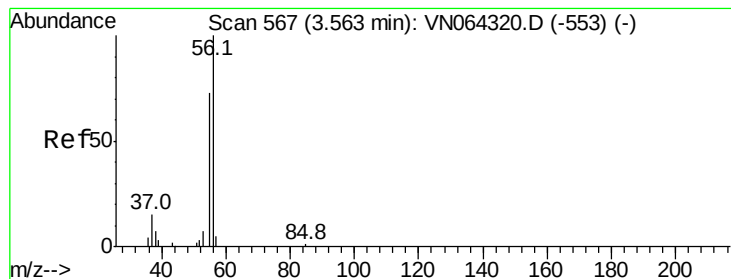
4.74

4.75

4.75

Time-->





#13

Acrolein

Concen: 18.180 ug/l

RT: 3.82 min Scan# 646

Delta R.T. 0.25 min

Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

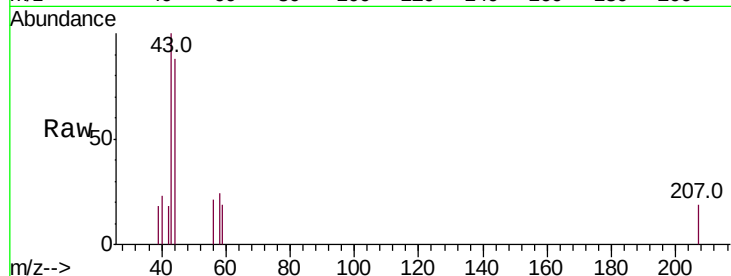
PB132665ZHE#05

Tot Ion: 56 Resp: 68

Ion Ratio Lower Upper

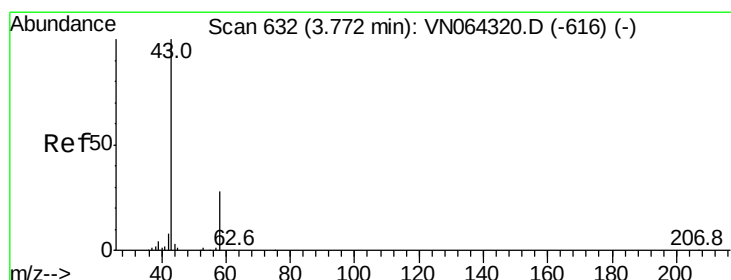
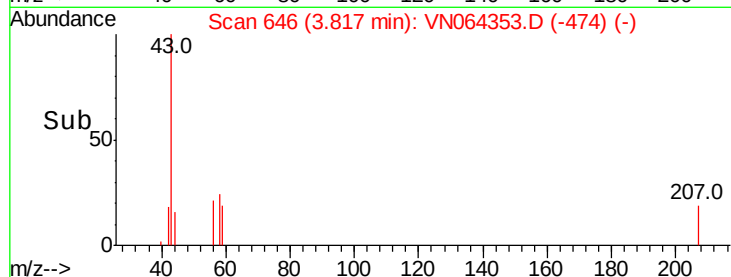
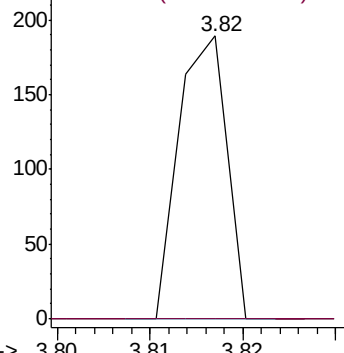
56 100

55 0.0 62.6 94.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 1.990 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064353.D

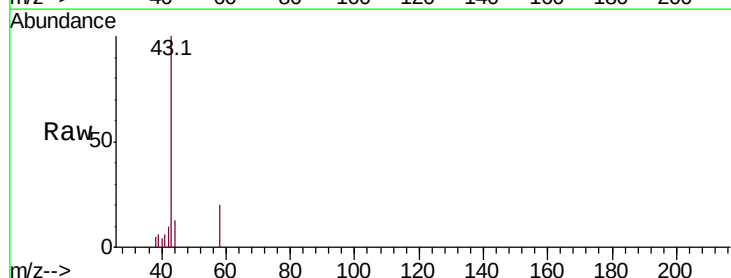
Acq: 28 Oct 2020 15:33

Tgt Ion: 43 Resp: 12668

Ion Ratio Lower Upper

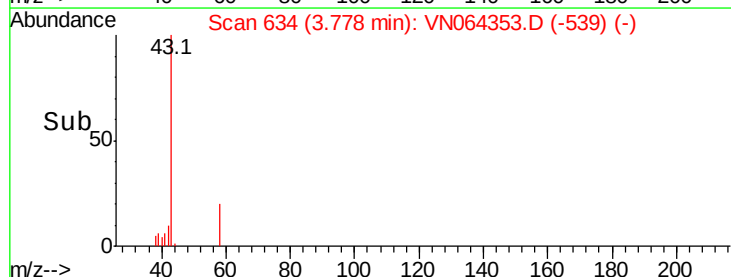
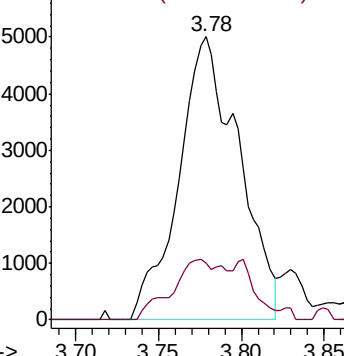
43 100

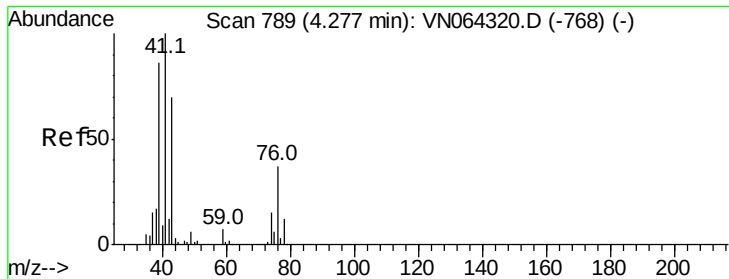
58 20.0 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#18

Methyl Acetate

Concen: 1.734 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.02 min

Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

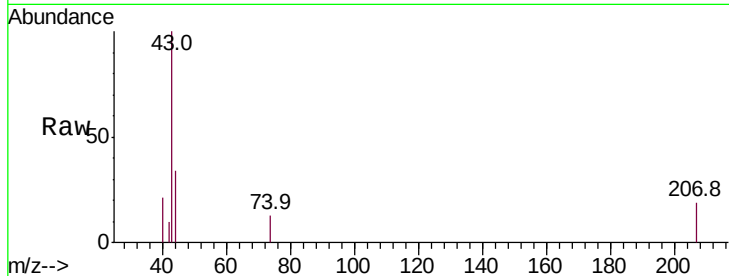
PB132665ZHE#05

Tot Ion: 43 Resp: 5217

Ion Ratio Lower Upper

43 100

74 8.5 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VN064320.D (-768) (-)

Ion 74.00 (73.70 to 74.70): VN064320.D (-768) (-)

2000

1500

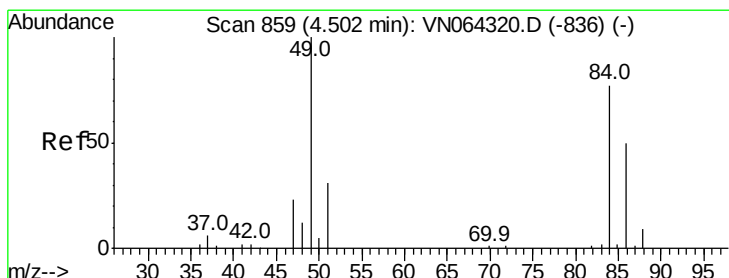
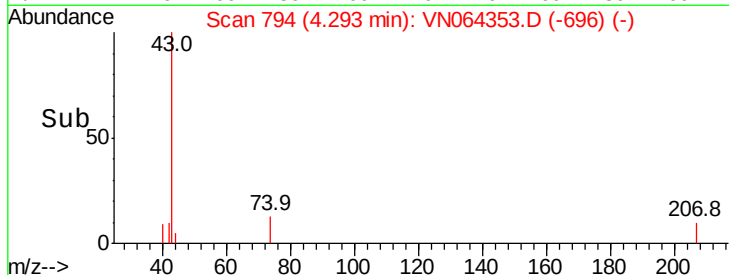
1000

500

0

4.20 4.25 4.30 4.35 4.40

Time-->



#20

Methylene Chloride

Concen: 2.659 ug/l

RT: 4.50 min Scan# 858

Delta R.T. -0.00 min

Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

Tgt Ion: 84 Resp: 7552

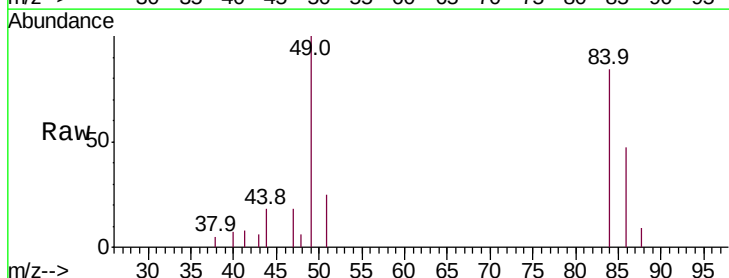
Ion Ratio Lower Upper

84 100

49 119.6 103.6 155.4

51 29.4 31.8 47.8#

86 55.7 51.3 76.9



Abundance Ion 83.90 (83.60 to 84.60): VN064320.D (-836) (-)

Ion 48.90 (48.60 to 49.60): VN064320.D (-836) (-)

Ion 50.90 (50.60 to 51.60): VN064320.D (-836) (-)

Ion 85.90 (85.60 to 86.60): VN064320.D (-836) (-)

4000

3000

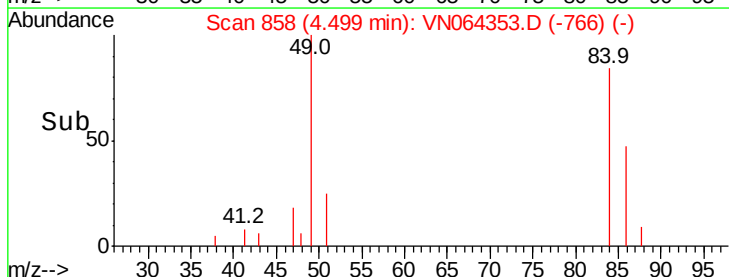
2000

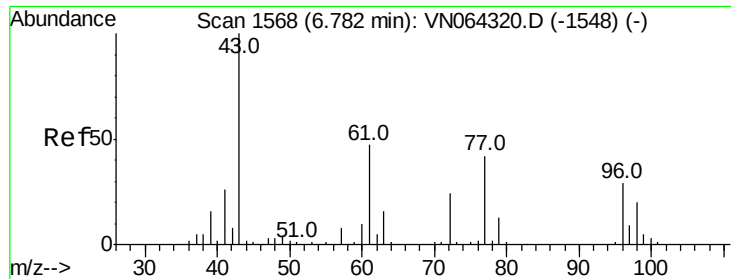
1000

0

4.40 4.45 4.50 4.55 4.60

Time-->





#25

2-Butanone

Concen: 1.161 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

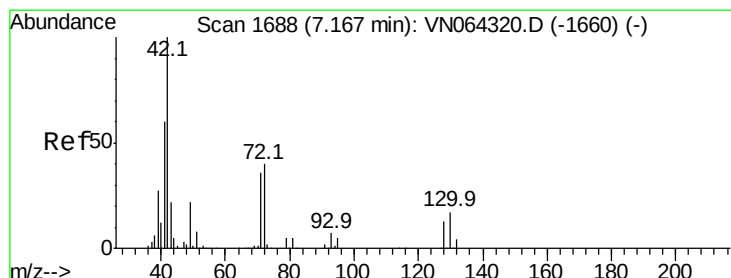
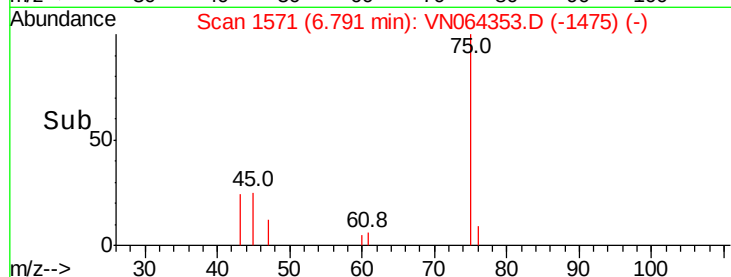
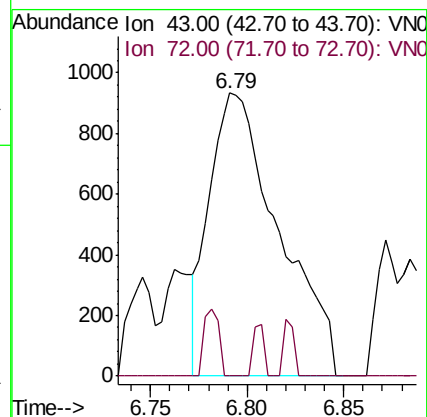
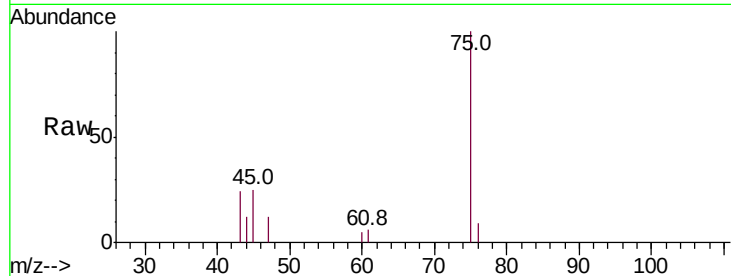
PB132665ZHE#05

Tot Ion: 43 Resp: 2334

Ion Ratio Lower Upper

43 100

72 0.0 18.8 28.2#



#29

Tetrahydrofuran

Concen: 0.839 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

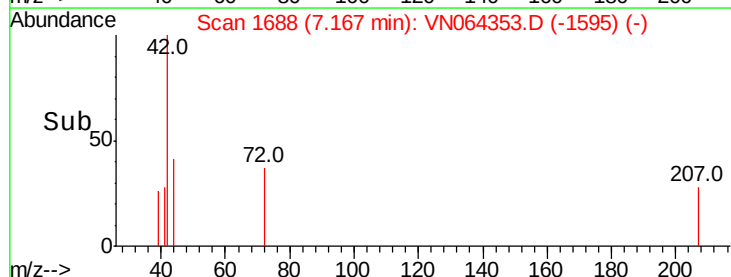
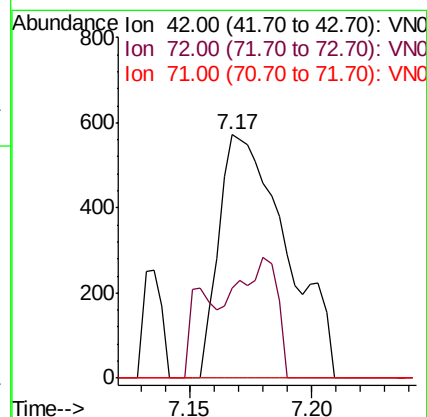
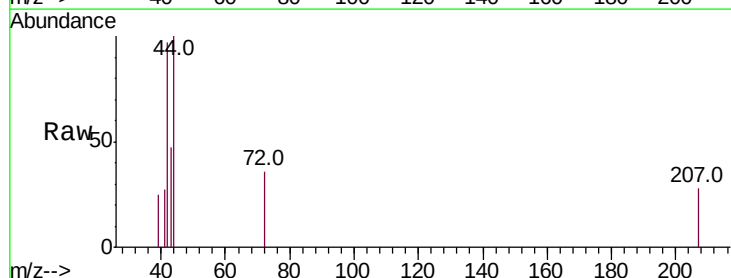
Tgt Ion: 42 Resp: 1095

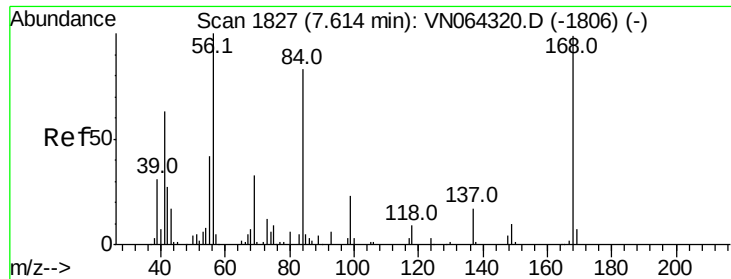
Ion Ratio Lower Upper

42 100

72 31.6 31.6 47.4#

71 0.0 29.4 44.0#

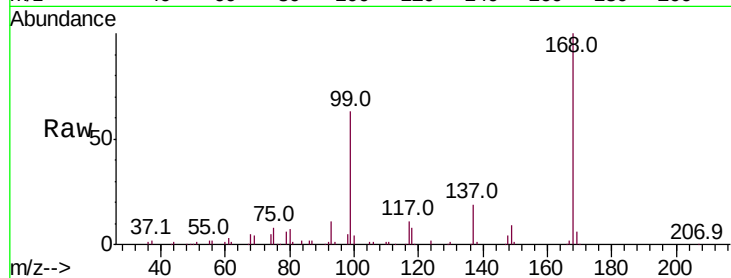




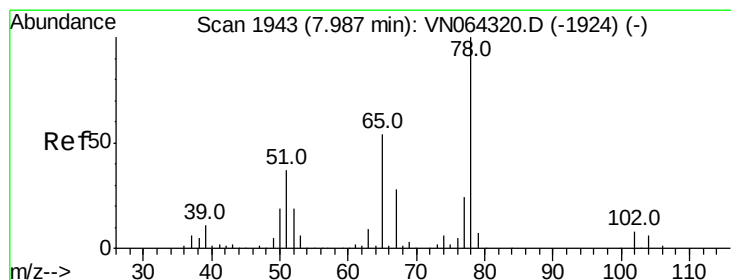
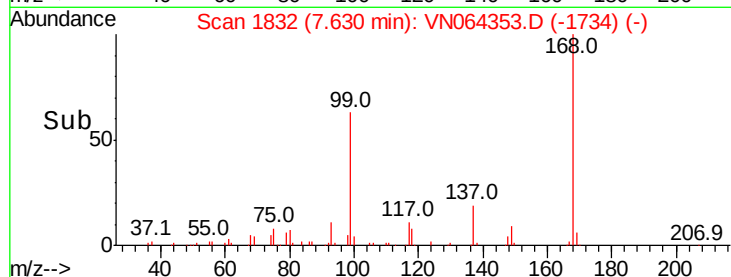
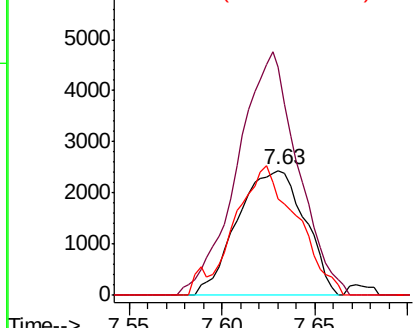
#31
Cyclohexane
Concen: 1.329 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN064353.D
Acq: 28 Oct 2020 15:33

Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#05

Tot Ion: 56 Resp: 6178
Ion Ratio Lower Upper
56 100
69 173.9 25.8 38.8#
84 77.3 66.3 99.5

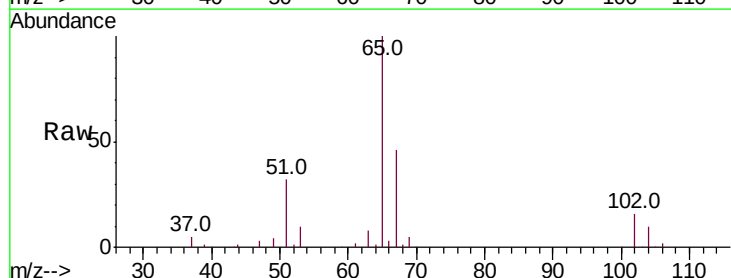


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

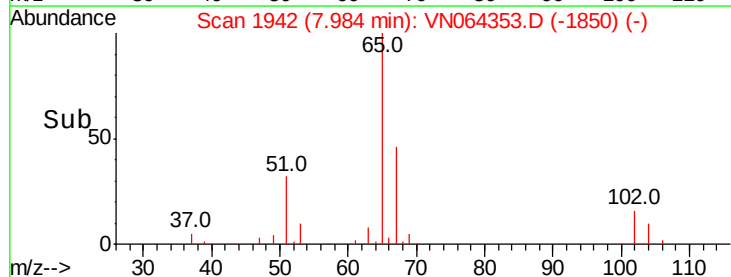
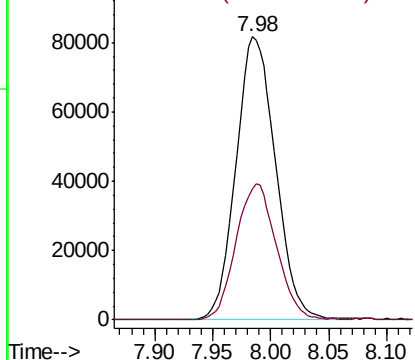


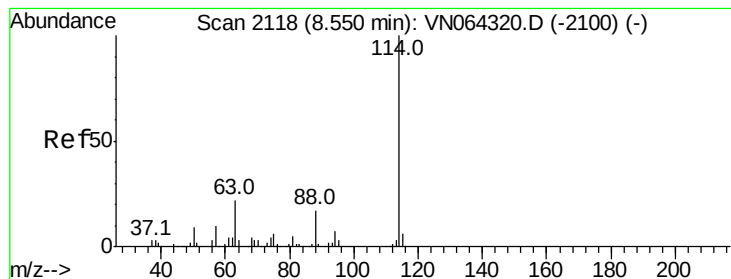
#33
1,2-Dichloroethane-d4
Concen: 48.323 ug/l
RT: 7.98 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN064353.D
Acq: 28 Oct 2020 15:33

Tgt Ion: 65 Resp: 193539
Ion Ratio Lower Upper
65 100
67 49.3 0.0 99.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#05

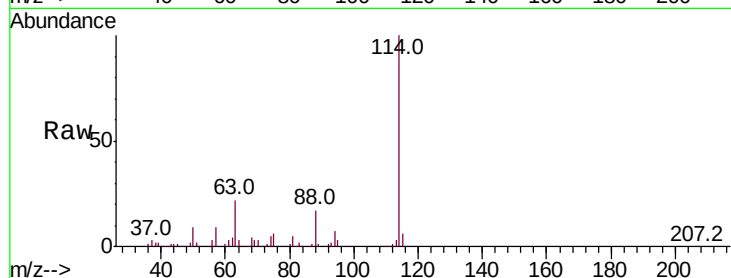
Tot Ion:114 Resp: 432197

Ion Ratio Lower Upper

114 100

63 21.6 0.0 44.6

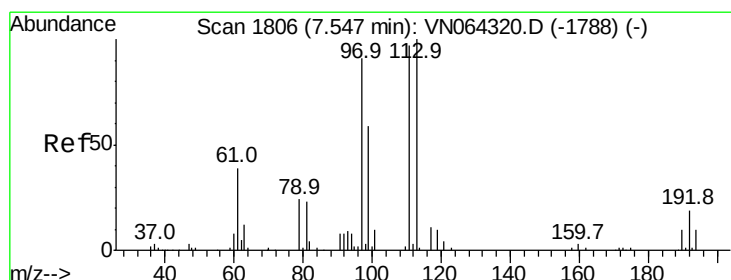
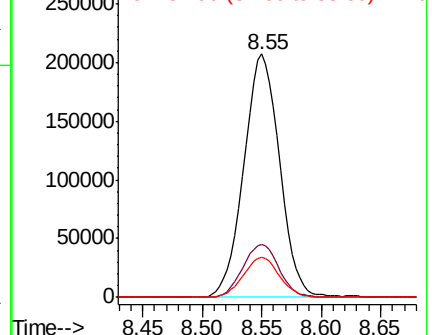
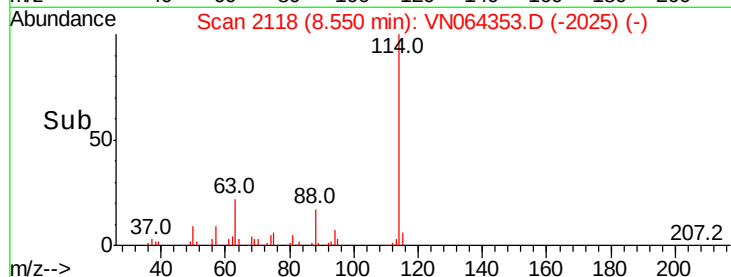
88 16.5 0.0 33.4



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: 48.314 ug/l

RT: 7.55 min Scan# 1806

Delta R.T. -0.00 min

Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

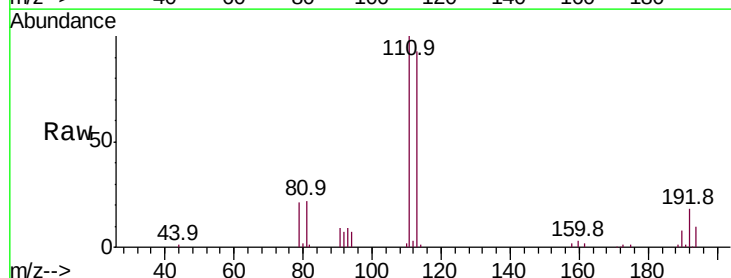
Tgt Ion:113 Resp: 139250

Ion Ratio Lower Upper

113 100

111 103.0 81.5 122.3

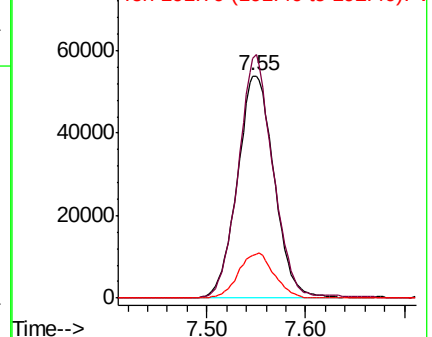
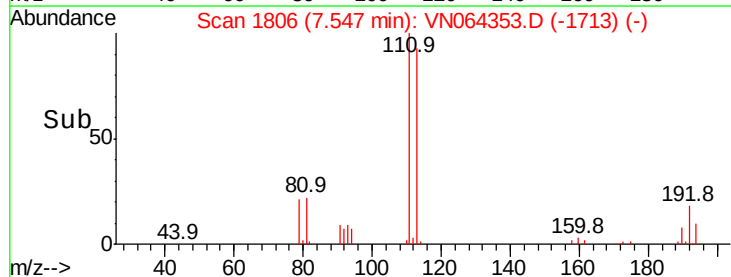
192 19.5 15.0 22.4

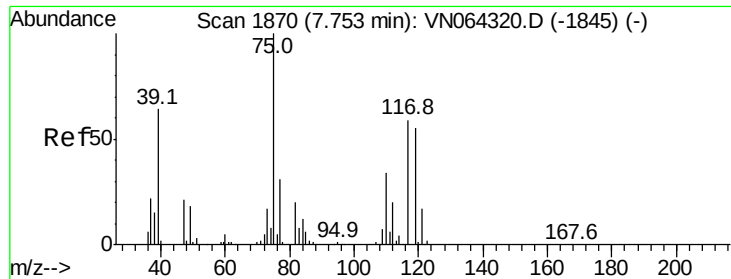


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

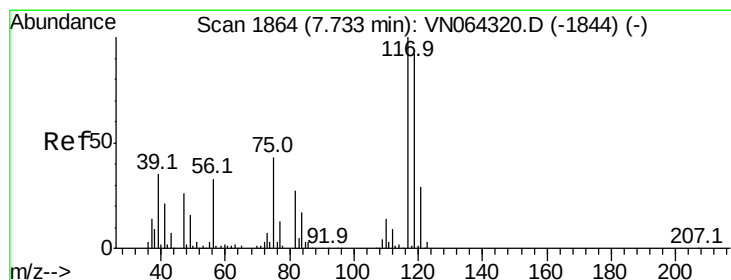
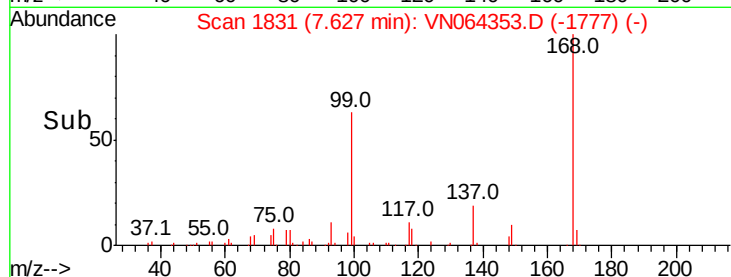
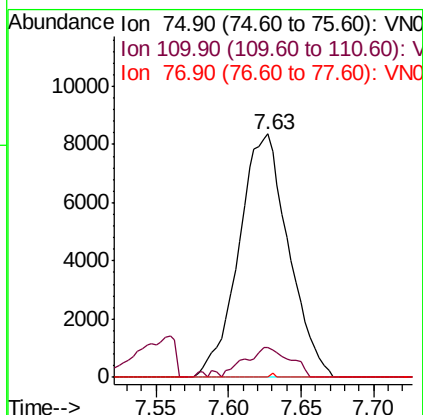
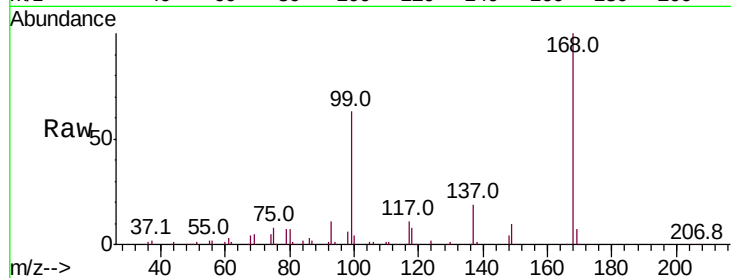




#36
 1,1-Dichloropropene
 Concen: 4.569 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064353.D
 Acq: 28 Oct 2020 15:33

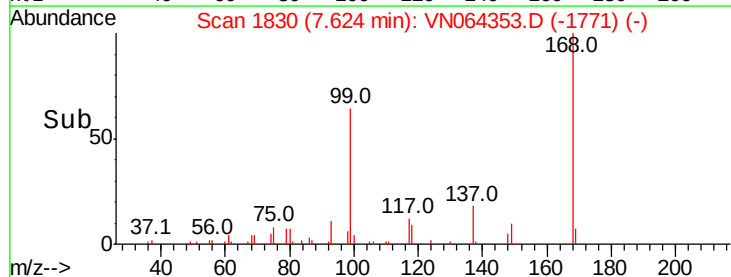
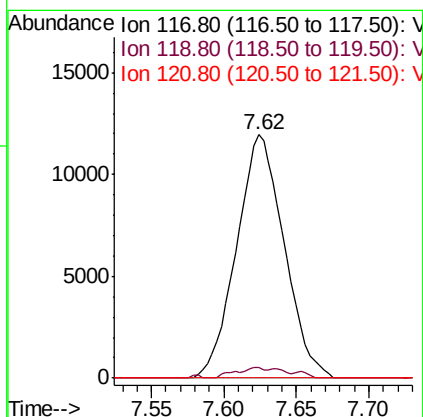
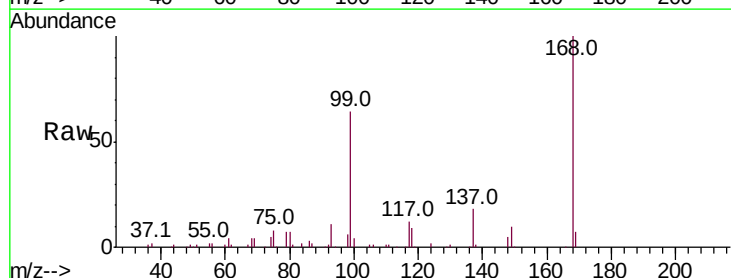
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132665ZHE#05

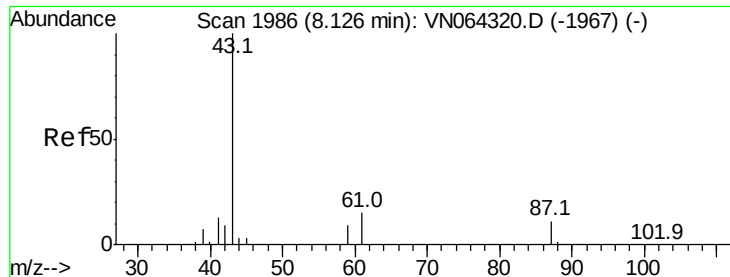
Tot Ion: 75 Resp: 19930
 Ion Ratio Lower Upper
 75 100
 110 11.0 16.8 50.3#
 77 0.2 24.2 36.4#



#38
 Carbon Tetrachloride
 Concen: 5.371 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN064353.D
 Acq: 28 Oct 2020 15:33

Tgt Ion: 117 Resp: 27162
 Ion Ratio Lower Upper
 117 100
 119 4.2 73.7 110.5#
 121 0.0 22.8 34.2#





#43

Isopropyl Acetate

Concen: 13.084 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#05

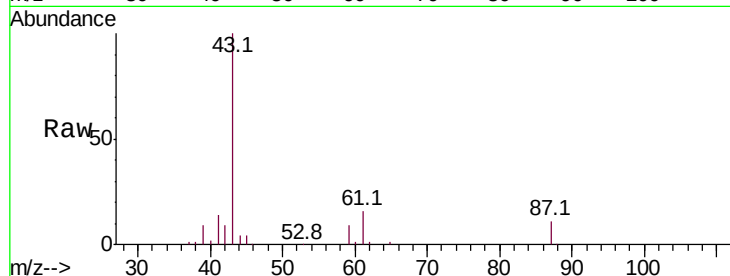
Tot Ion: 43 Resp: 98543

Ion Ratio Lower Upper

43 100

61 17.2 19.1 28.7#

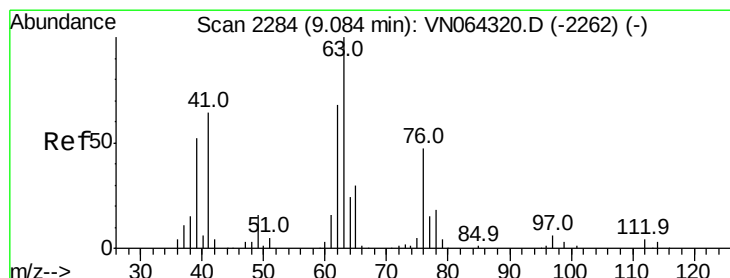
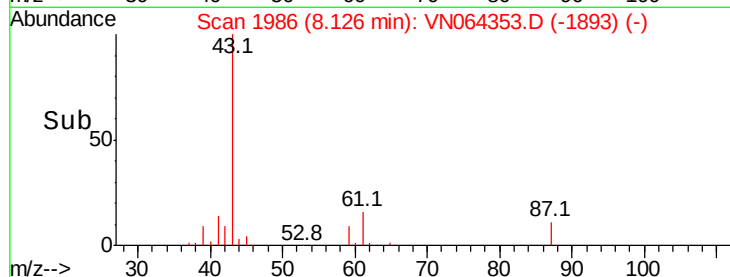
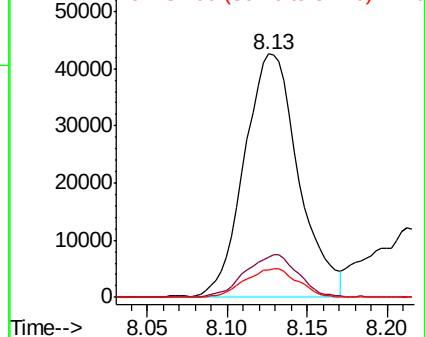
87 11.6 9.3 13.9



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: 0.512 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN064353.D

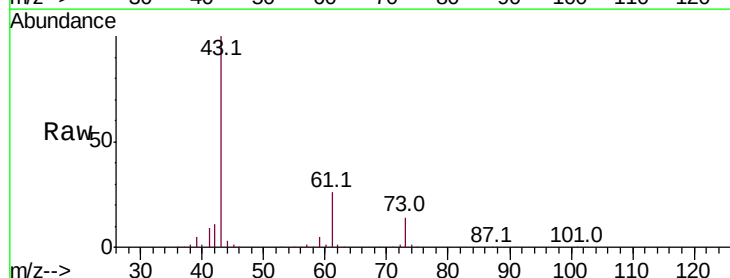
Acq: 28 Oct 2020 15:33

Tgt Ion: 63 Resp: 1665

Ion Ratio Lower Upper

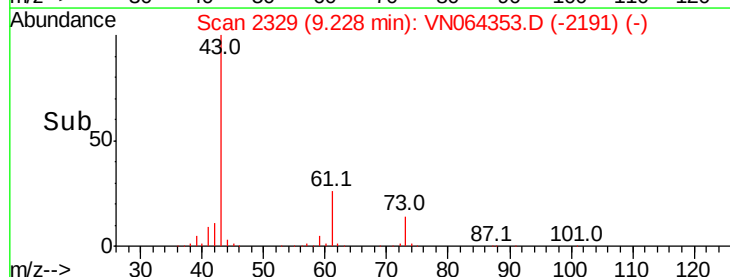
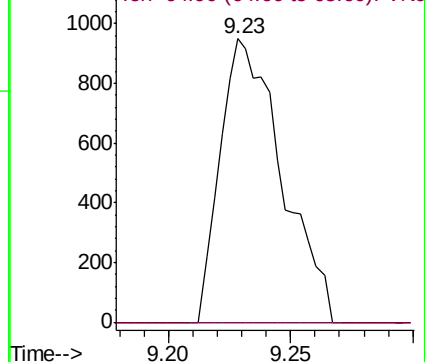
63 100

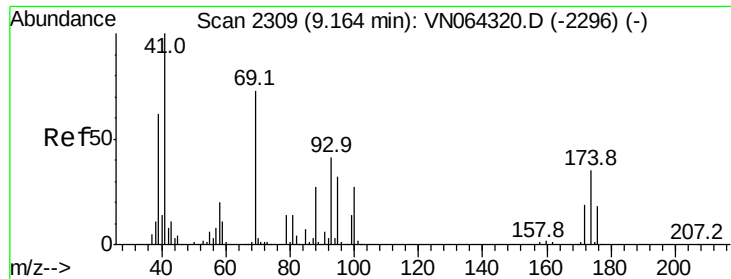
65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

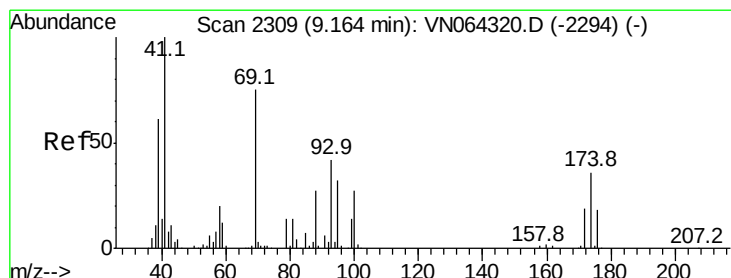
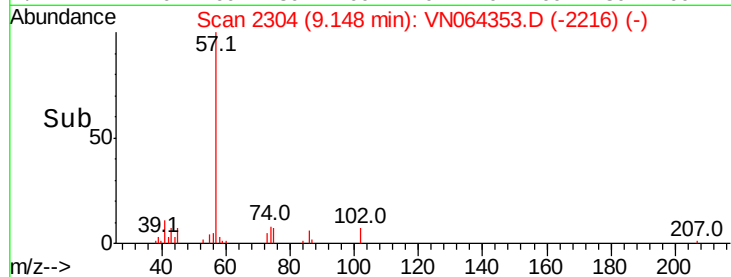
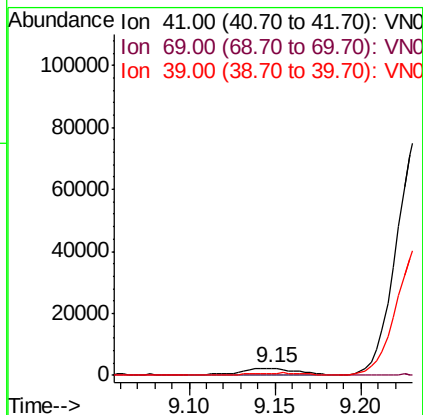
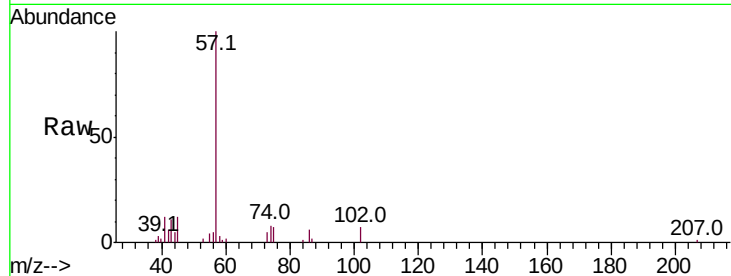




#48
Methvl methacrylate
Concen: 1.424 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN064353.D
Acq: 28 Oct 2020 15:33

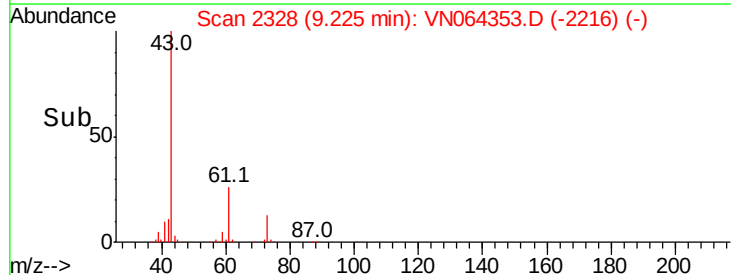
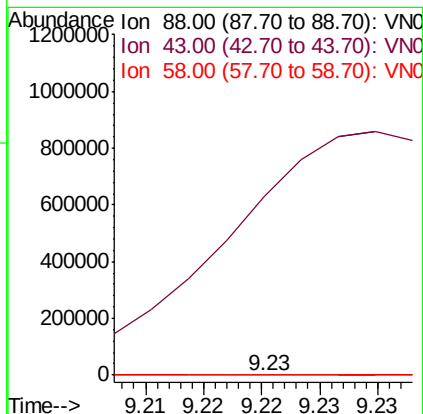
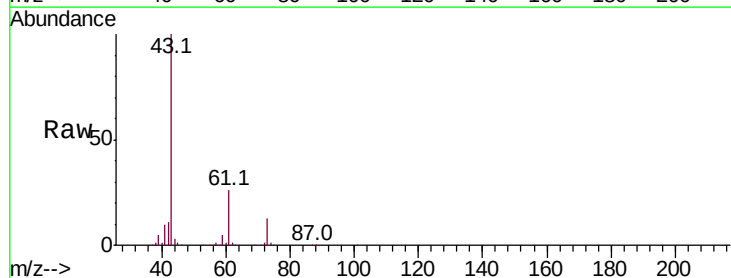
Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#05

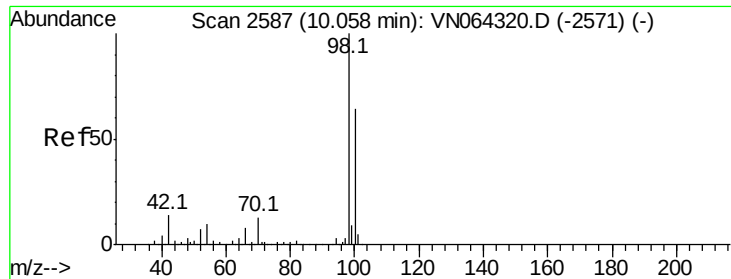
Tot Ion: 41 Resp: 5534
Ion Ratio Lower Upper
41 100
69 0.5 59.1 88.7#
39 0.0 51.3 76.9#



#49
1,4-Dioxane
Concen: 1.135 ug/l
RT: 9.23 min Scan# 2328
Delta R.T. 0.06 min
Lab File: VN064353.D
Acq: 28 Oct 2020 15:33

Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 0.0 31.8 47.8#
58 0.0 60.3 90.5#





#50

Toluene-d8

Concen: 50.014 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

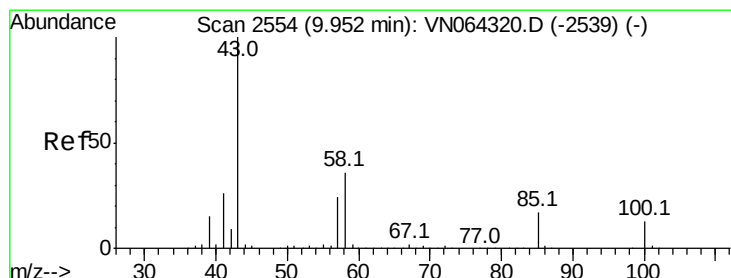
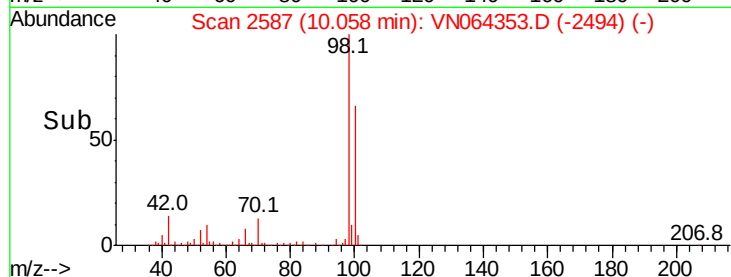
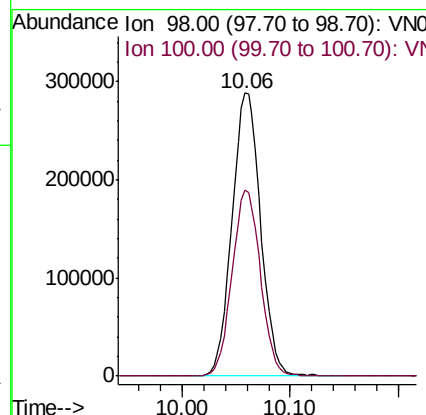
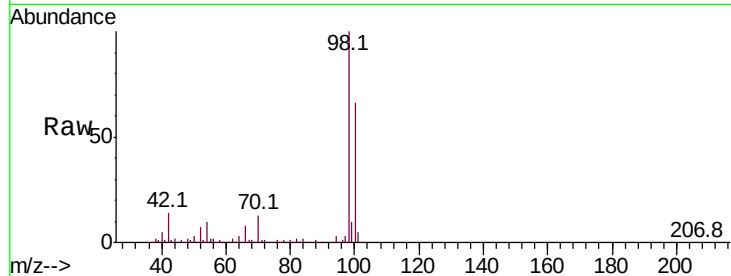
PB132665ZHE#05

Tot Ion: 98 Resp: 533200

Ion Ratio Lower Upper

98 100

100 65.1 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 1.955 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN064353.D

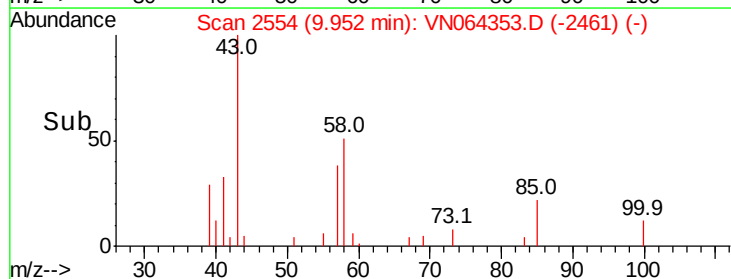
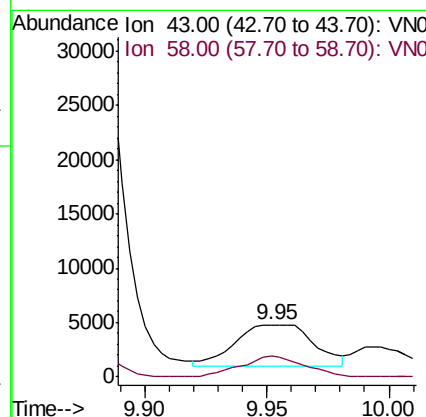
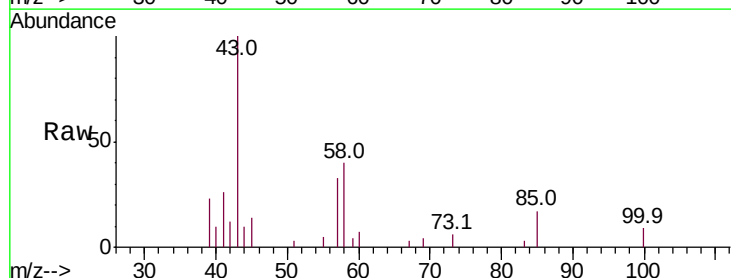
Acq: 28 Oct 2020 15:33

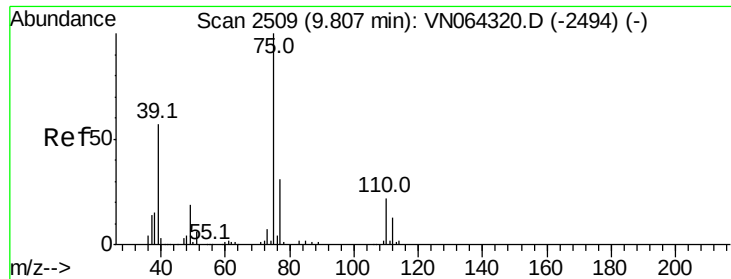
Tgt Ion: 43 Resp: 8557

Ion Ratio Lower Upper

43 100

58 40.0 28.6 42.8





#54

cis-1,3-Dichloropropene

Concen: 7.295 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#05

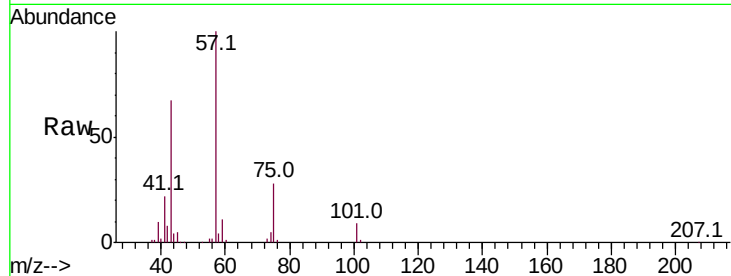
Tot Ion: 75 Resp: 40024

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

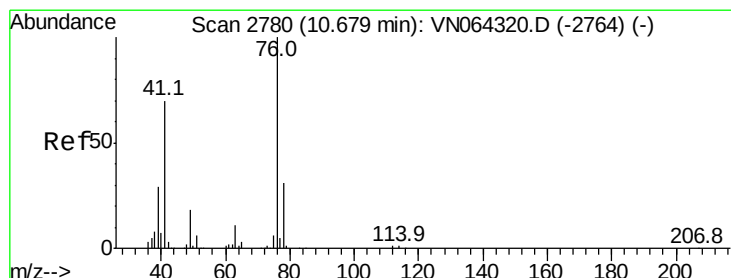
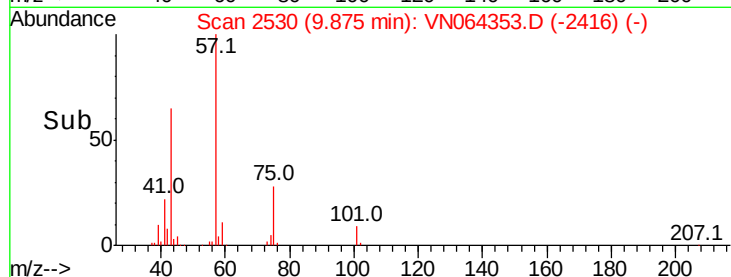
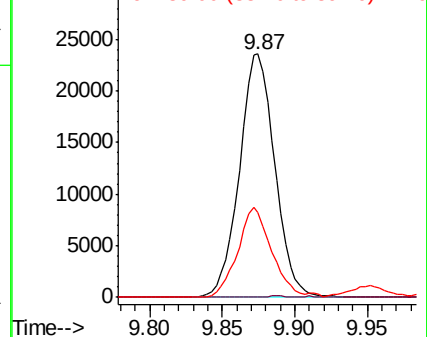
39 34.8 45.5 68.3#



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



#57

1,3-Dichloropropane

Concen: 1.289 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN064353.D

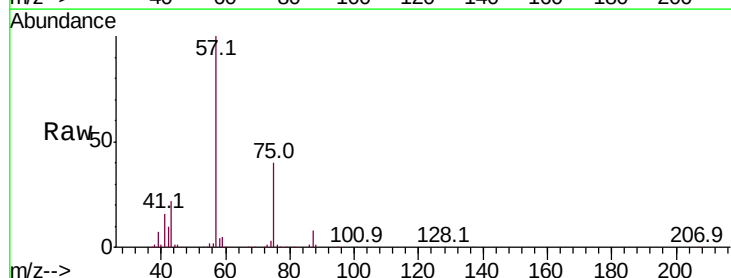
Acq: 28 Oct 2020 15:33

Tgt Ion: 76 Resp: 6648

Ion Ratio Lower Upper

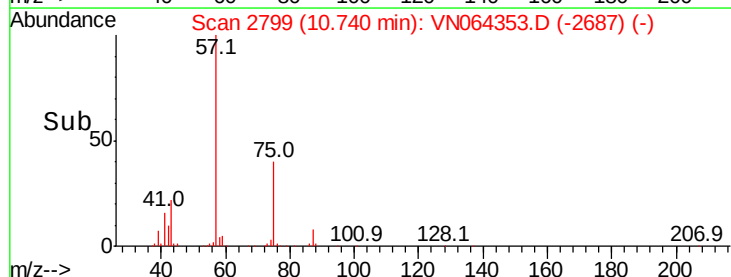
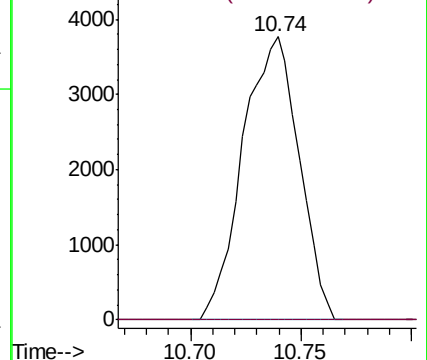
76 100

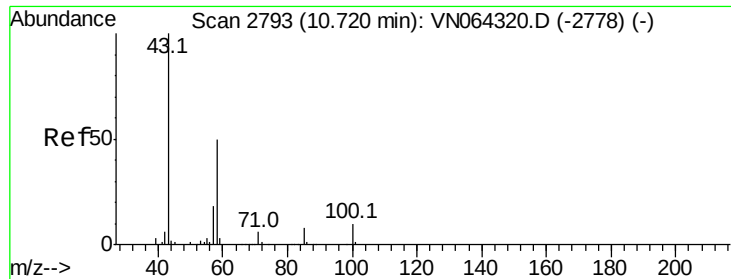
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 32.176 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

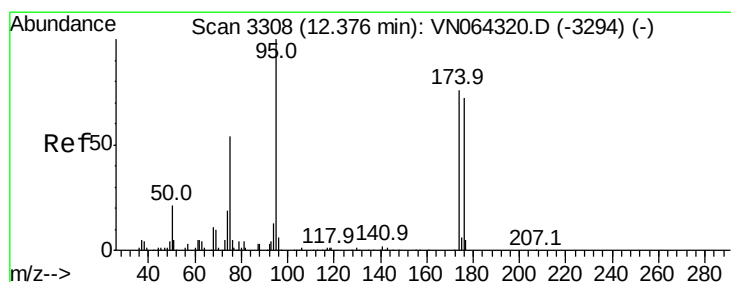
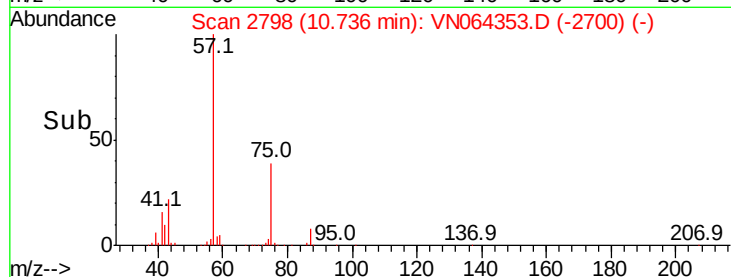
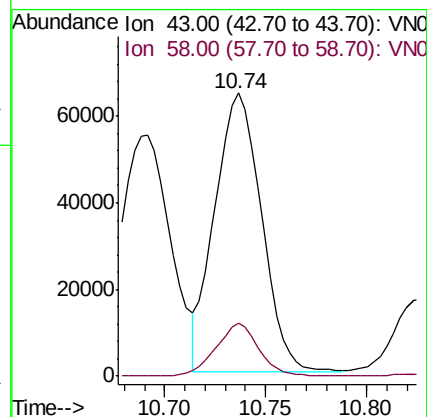
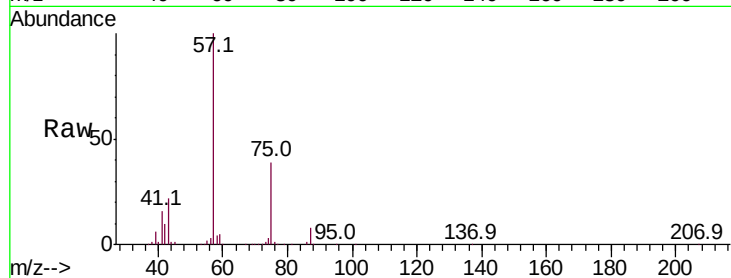
PB132665ZHE#05

Tot Ion: 43 Resp: 103747

Ion Ratio Lower Upper

43 100

58 17.5 25.0 75.0#



#62

4-Bromofluorobenzene

Concen: 53.831 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

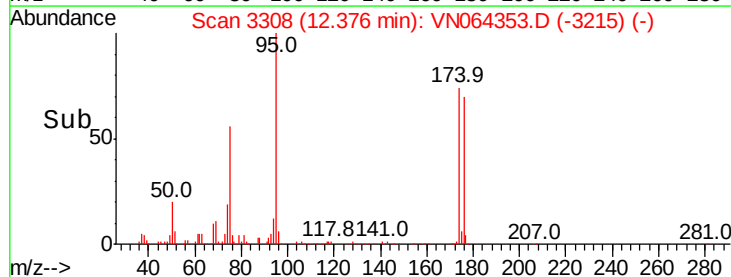
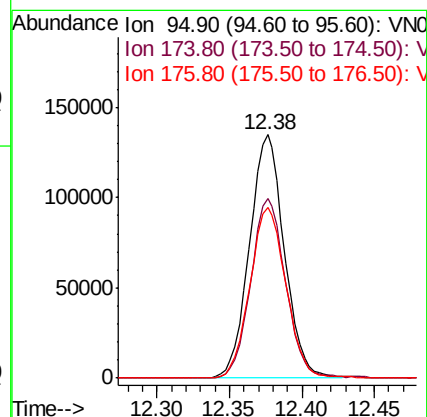
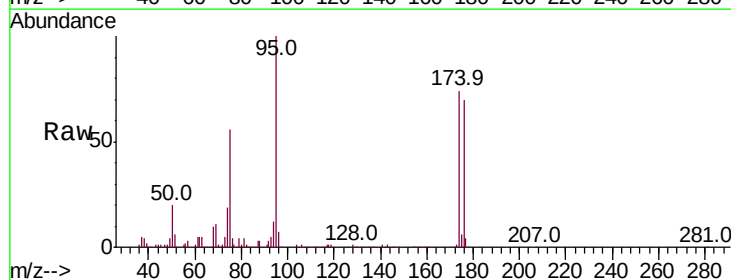
Tgt Ion: 95 Resp: 223756

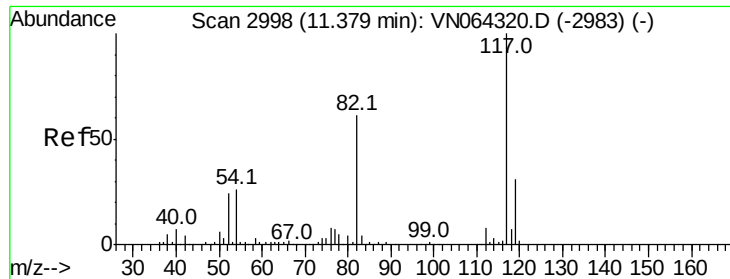
Ion Ratio Lower Upper

95 100

174 74.1 0.0 147.4

176 73.2 0.0 143.6

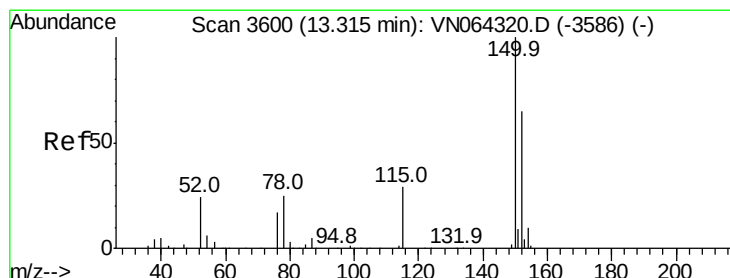
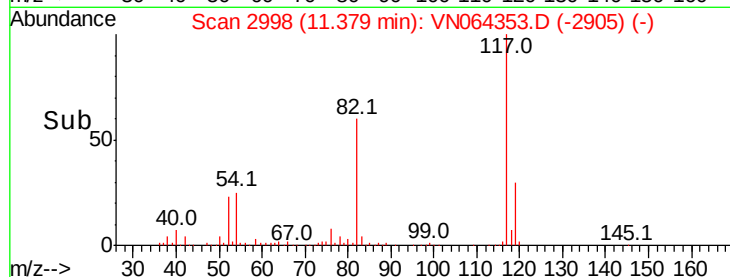
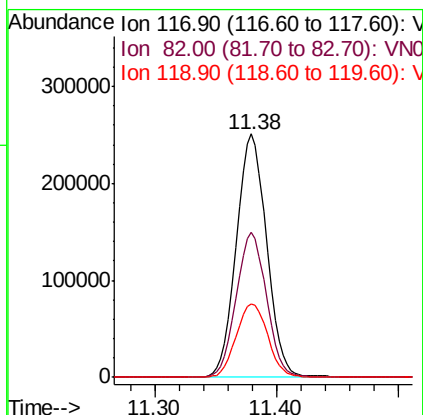
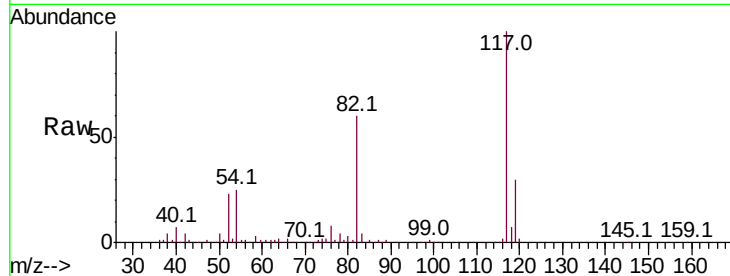




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064353.D
Acq: 28 Oct 2020 15:33

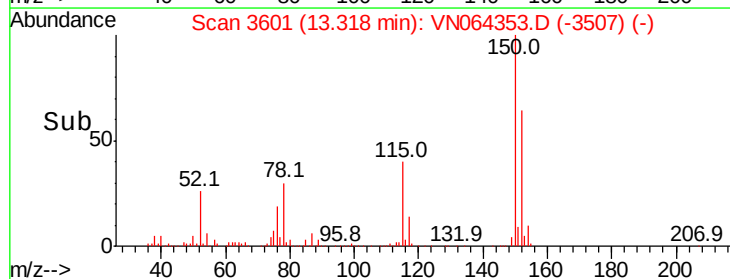
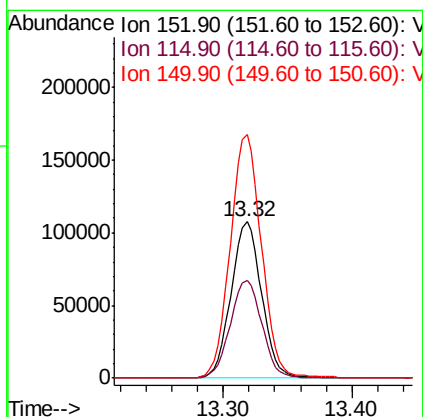
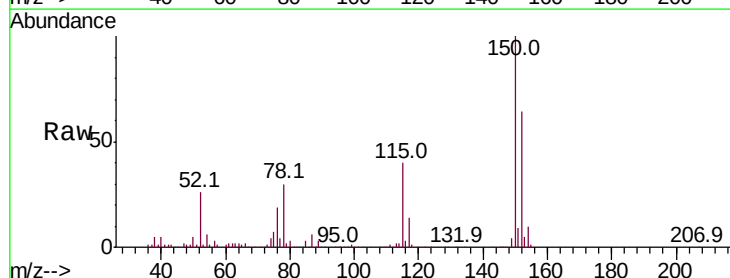
Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#05

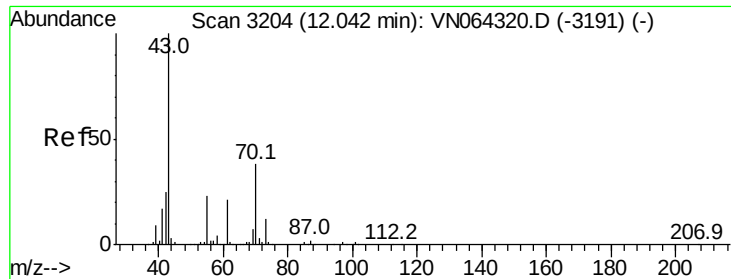
Tot Ion:117 Resp: 433353
Ion Ratio Lower Upper
117 100
82 59.5 48.8 73.2
119 30.3 25.1 37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064353.D
Acq: 28 Oct 2020 15:33

Tgt Ion:152 Resp: 177620
Ion Ratio Lower Upper
152 100
115 64.0 31.5 94.5
150 158.8 0.0 346.2





#74

N-amvl acetate

Concen: 1.196 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.03 min

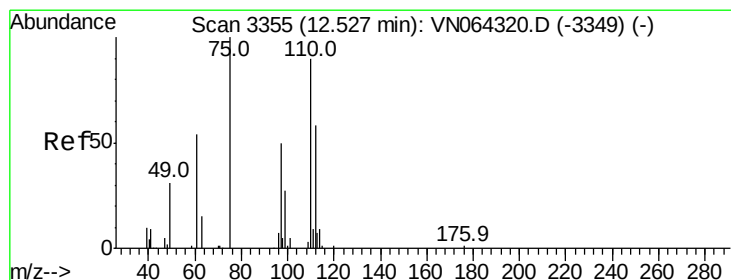
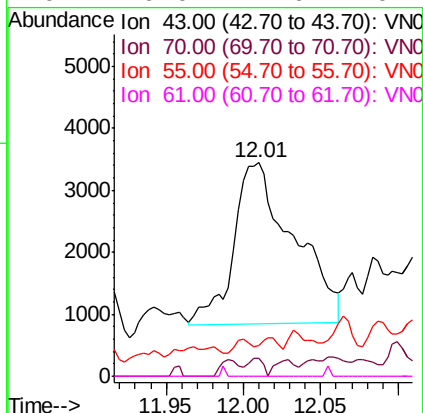
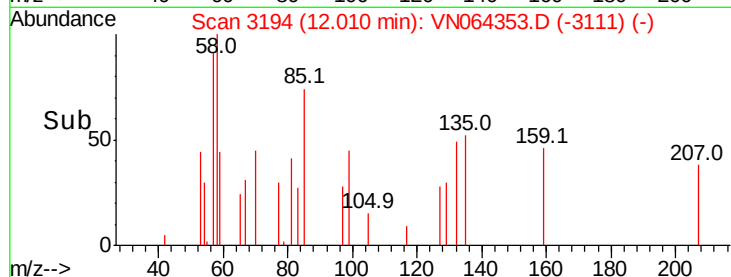
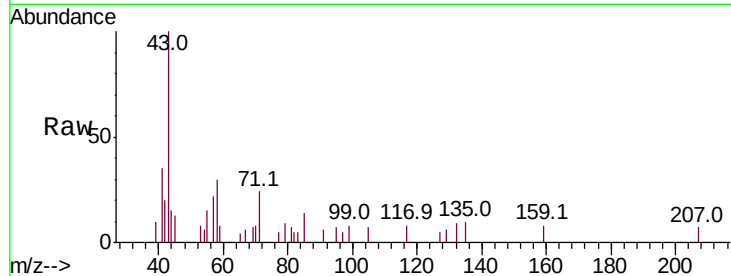
Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#05

Tot Ion: 43 Resp: 7002

Ion	Ratio	Lower	Upper
43	100		
70	2.7	30.6	45.8#
55	3.8	18.2	27.4#
61	0.0	17.6	26.4#



#76

1,2,3-Trichloropropane

Concen: 29.040 ug/l

RT: 12.38 min Scan# 3308

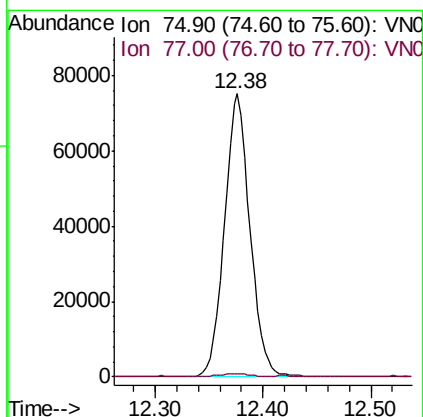
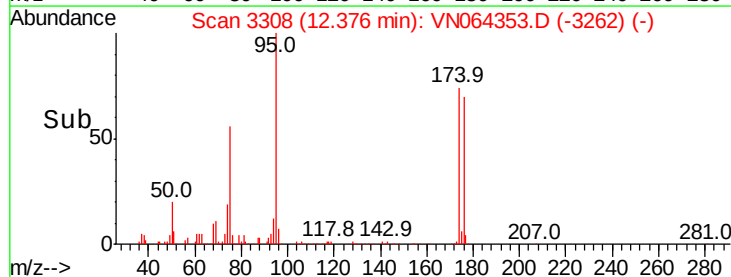
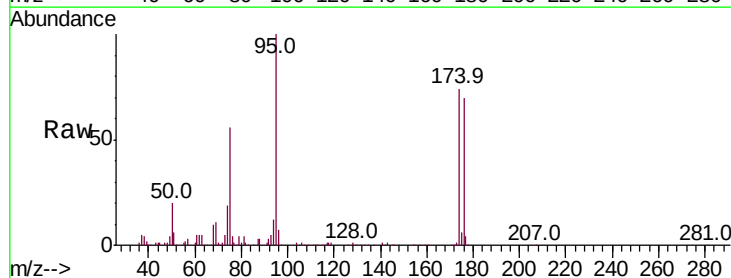
Delta R.T. -0.15 min

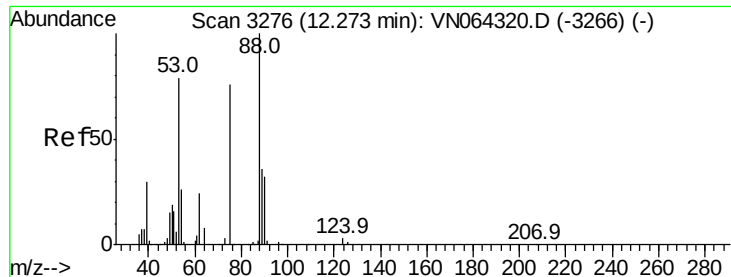
Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

Tgt Ion: 75 Resp: 123521

Ion	Ratio	Lower	Upper
75	100		
77	1.3	0.0	0.0#

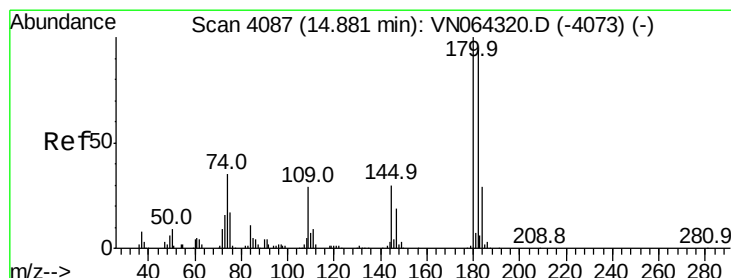
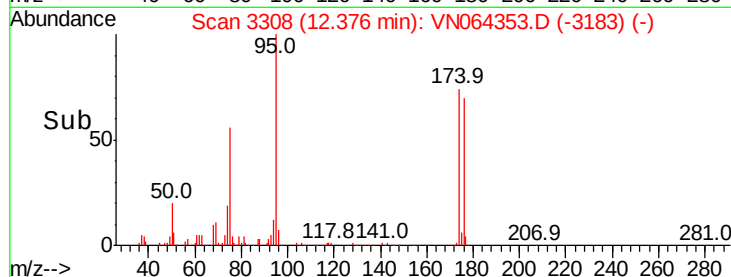
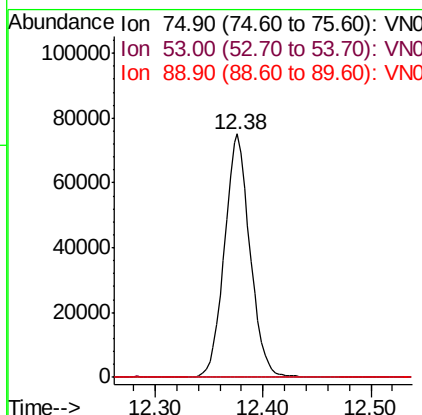
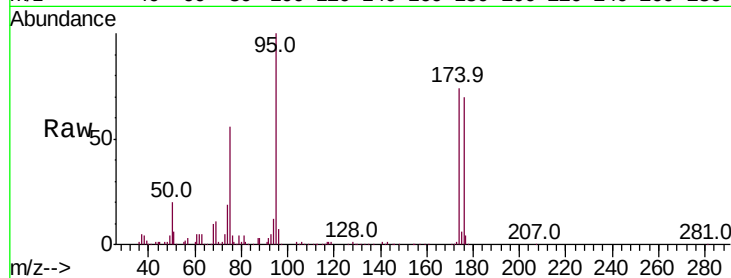




#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.650 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064353.D
 Acq: 28 Oct 2020 15:33

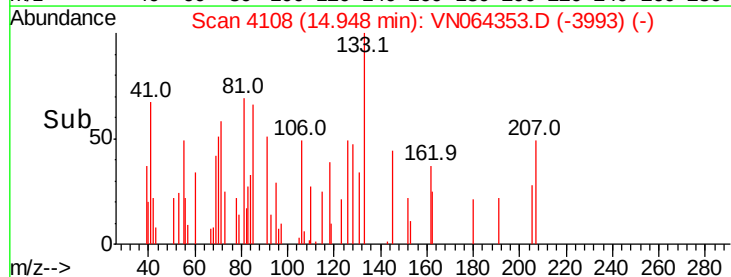
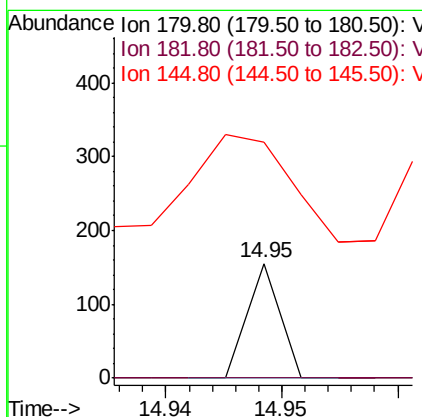
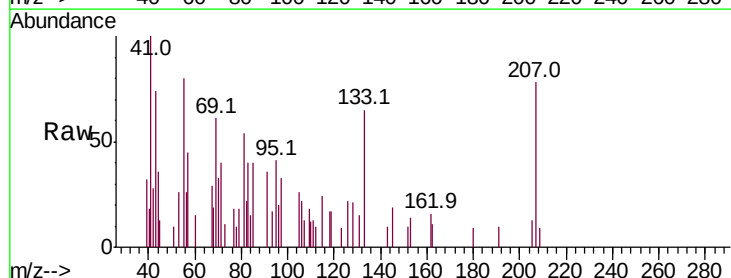
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132665ZHE#05

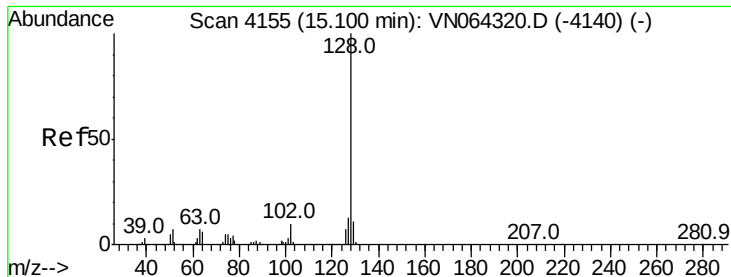
Tot Ion: 75 Resp: 123521
 Ion Ratio Lower Upper
 75 100
 53 0.1 81.8 122.8#
 89 0.0 39.9 59.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 2.027 ug/l
 RT: 14.95 min Scan# 4108
 Delta R.T. 0.07 min
 Lab File: VN064353.D
 Acq: 28 Oct 2020 15:33

Tgt Ion: 180 Resp: 30
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.6 139.7#
 145 996.7 15.3 45.9#





#95

Naphthalene

Concen: 2.429 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#05

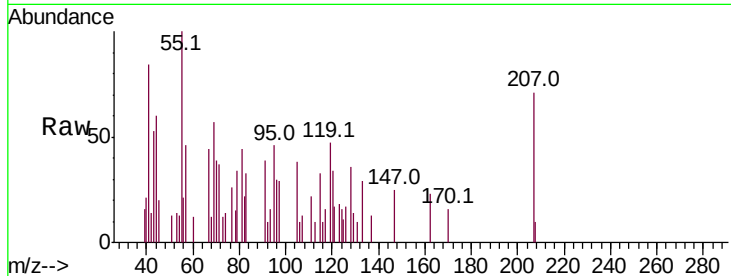
Tot Ion:128 Resp: 381

Ion Ratio Lower Upper

128 100

127 27.8 10.4 15.6#

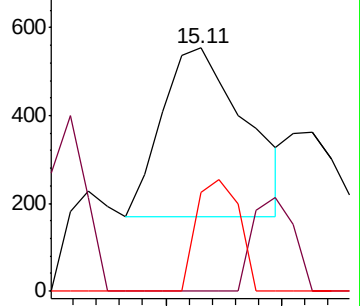
129 34.4 8.6 13.0#



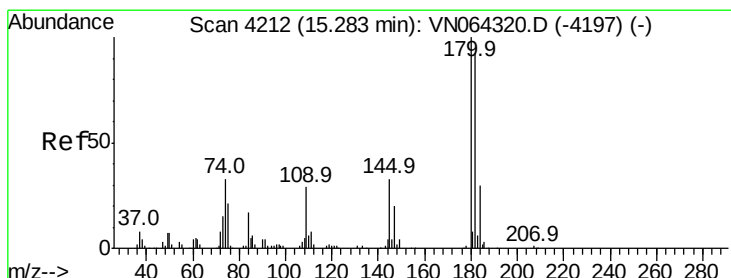
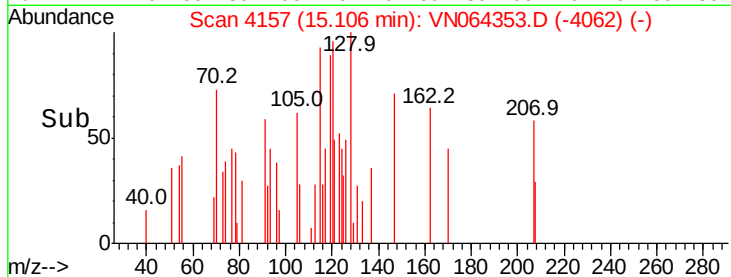
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 2.205 ug/l

RT: 15.28 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN064353.D

Acq: 28 Oct 2020 15:33

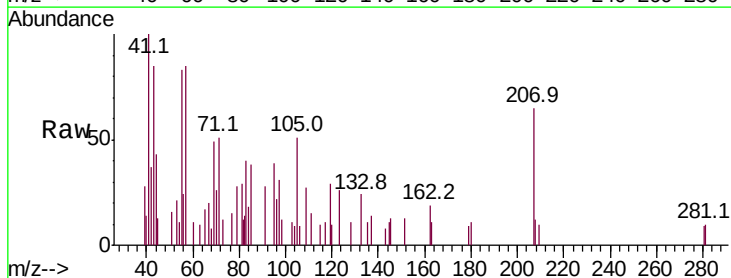
Tgt Ion:180 Resp: 74

Ion Ratio Lower Upper

180 100

182 93.2 46.1 138.3

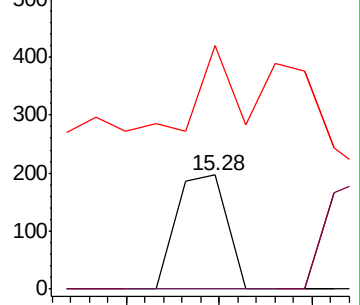
145 41.9 16.2 48.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V



Time-->

