

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102820\
 Data File : VN064355.D
 Acq On : 28 Oct 2020 16:21
 Operator : JC/MD
 Sample : PB132665ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132665ZHE#07

Quant Time: Oct 29 02:43:15 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	7.62	168	245844	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	424033	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	421480	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	178063	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	192801	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
35) Dibromofluoromethane	7.55	113	136600	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
50) Toluene-d8	10.06	98	528580	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	
62) 4-Bromofluorobenzene	12.38	95	226192	55.46	ug/l	0.00
Spiked Amount			Recovery	=	110.92%	

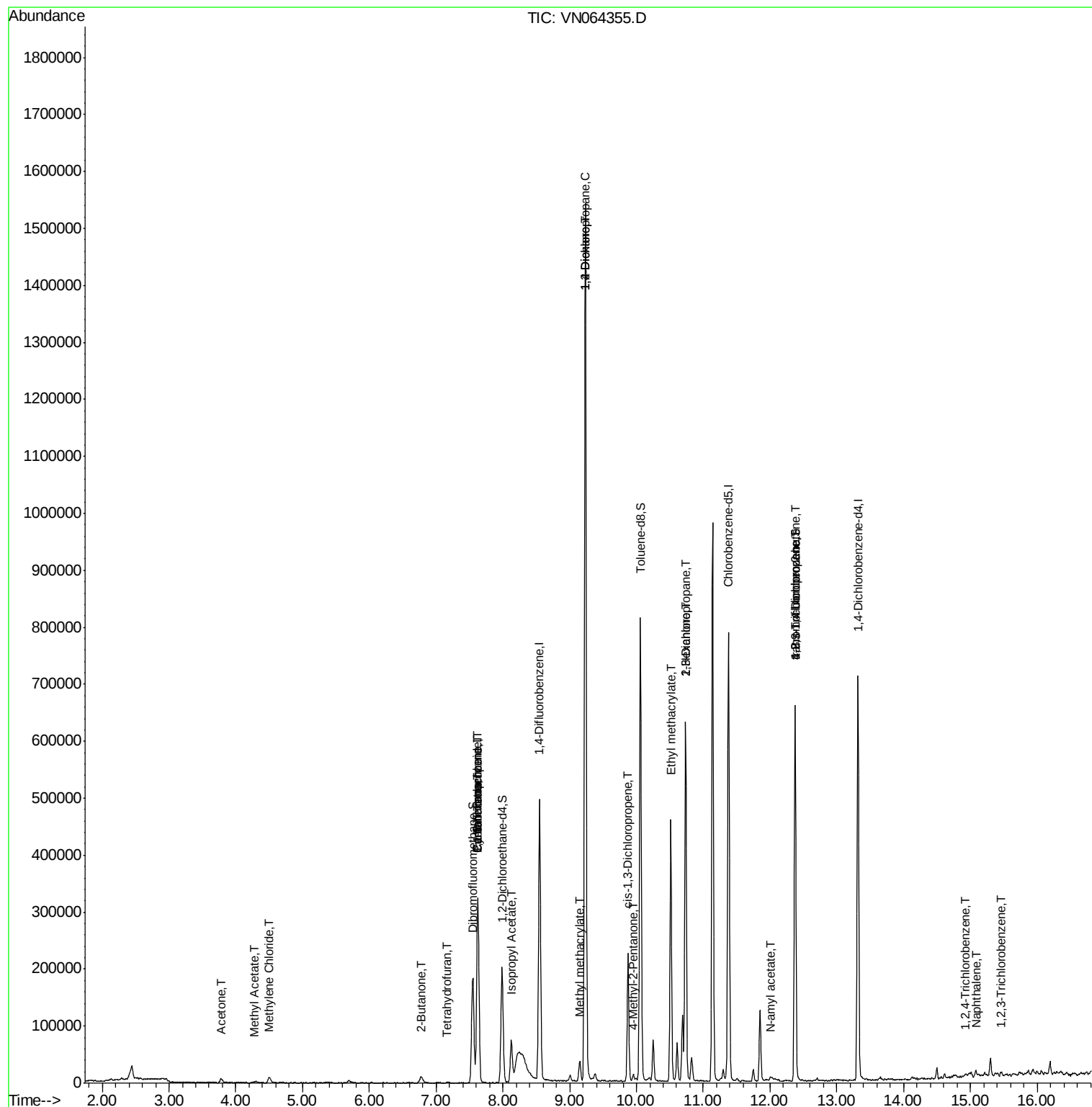
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	12381	1.902	ug/l	98
18) Methyl Acetate	4.28	43	1471	0.496	ug/l #	84
20) Methylene Chloride	4.50	84	3515	1.255	ug/l #	84
25) 2-Butanone	6.78	43	1124	0.567	ug/l #	89
29) Tetrahydrofuran	7.16	42	460	0.357	ug/l #	50
31) Cyclohexane	7.62	56	6639	1.448	ug/l #	47
36) 1,1-Dichloropropene	7.62	75	21339	4.986	ug/l #	43
38) Carbon Tetrachloride	7.63	117	26647	5.371	ug/l #	16
43) Isopropyl Acetate	8.13	43	96007	12.993	ug/l #	92
45) 1,2-Dichloropropane	9.22	63	666	0.209	ug/l #	44
48) Methyl methacrylate	9.14	41	5915	1.552	ug/l #	15
49) 1,4-Dioxane	9.24	88	113	2.011	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	6895	1.605	ug/l #	86
54) cis-1,3-Dichloropropene	9.87	75	36607	6.801	ug/l #	63
56) Ethyl methacrylate	10.51	69	1657	0.369	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5868	1.159	ug/l #	43
59) 2-Hexanone	10.74	43	100575	31.793	ug/l #	53
74) N-amyl acetate	12.00	43	5107	0.870	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	122713	28.778	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	122713	82.896	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.92	180	30	2.027	ug/l #	1
95) Naphthalene	15.10	128	61	2.398	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.46	180	100	2.212	ug/l #	14

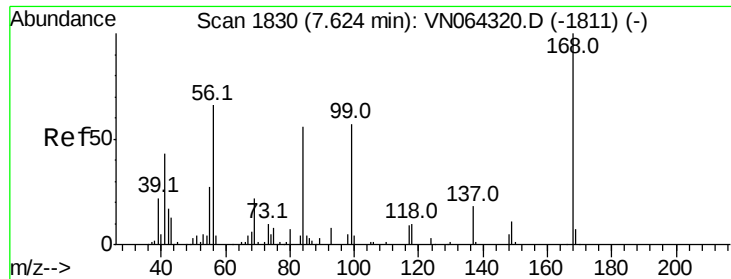
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.62 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

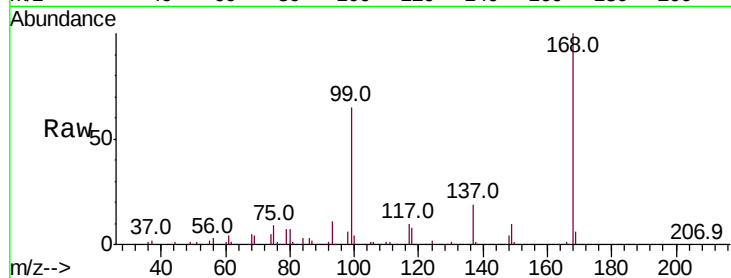
PB132665ZHE#07

Tot Ion:168 Resp: 245844

Ion Ratio Lower Upper

168 100

99 65.3 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

100000

80000

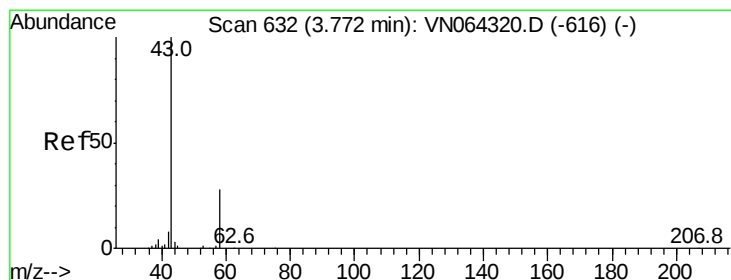
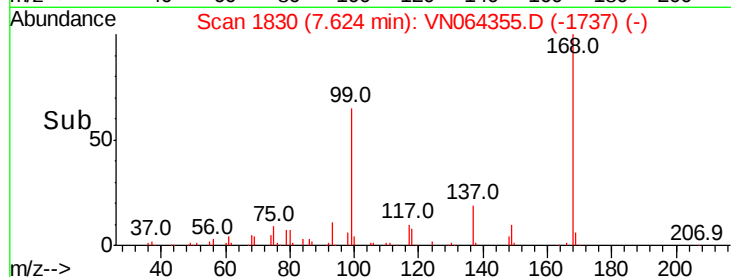
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 1.902 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064355.D

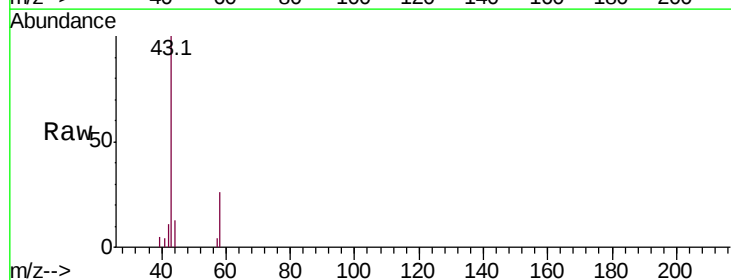
Acq: 28 Oct 2020 16:21

Tgt Ion: 43 Resp: 12381

Ion Ratio Lower Upper

43 100

58 26.3 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

5000

4000

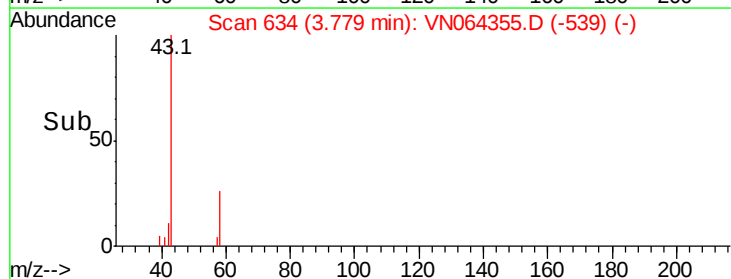
3000

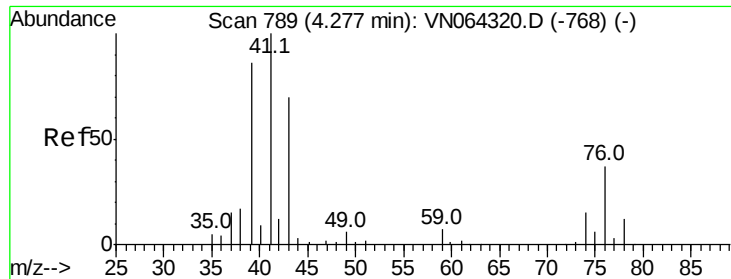
2000

1000

0

Time--> 3.70 3.75 3.80 3.85

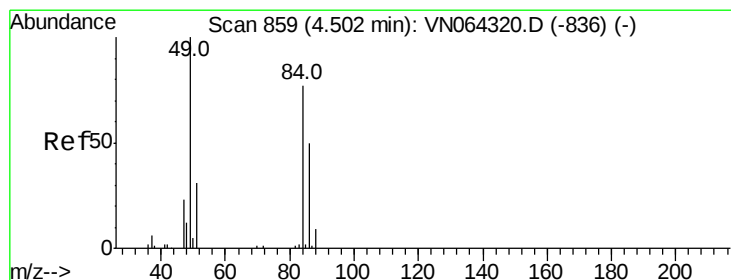
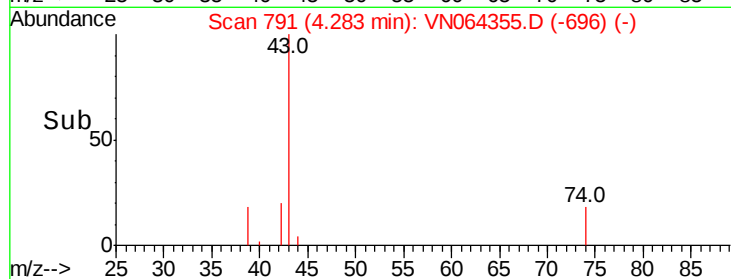
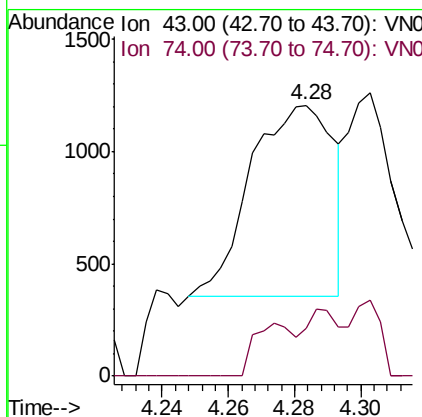
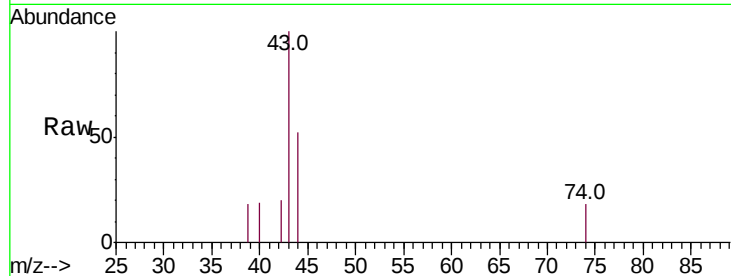




#18
Methyl Acetate
Concen: 0.496 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN064355.D
Acq: 28 Oct 2020 16:21

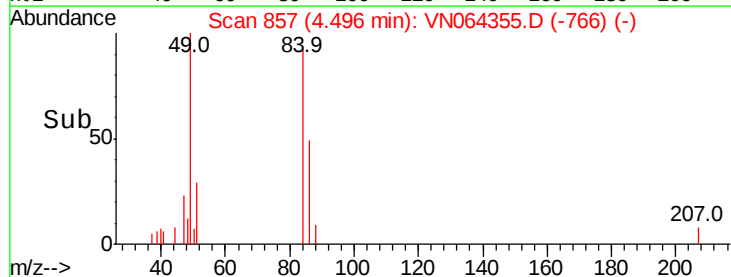
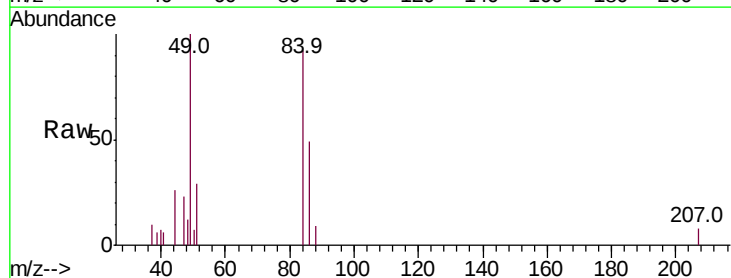
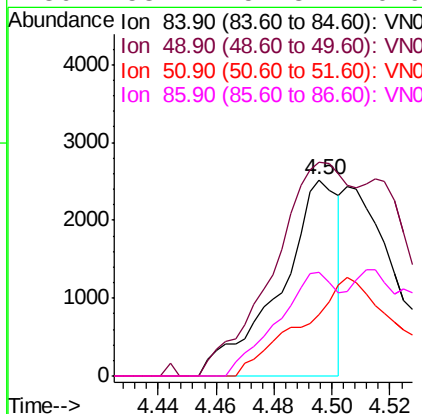
Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#07

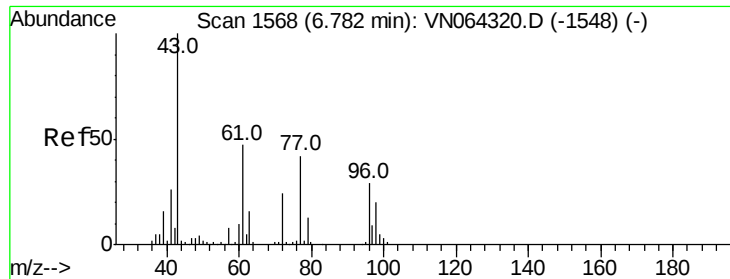
Tot Ion: 43 Resp: 1471
Ion Ratio Lower Upper
43 100
74 13.4 16.7 25.1#



#20
Methylene Chloride
Concen: 1.255 ug/l
RT: 4.50 min Scan# 857
Delta R.T. -0.01 min
Lab File: VN064355.D
Acq: 28 Oct 2020 16:21

Tgt Ion: 84 Resp: 3515
Ion Ratio Lower Upper
84 100
49 108.9 103.6 155.4
51 31.2 31.8 47.8#
86 53.2 51.3 76.9





#25

2-Butanone

Concen: 0.567 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

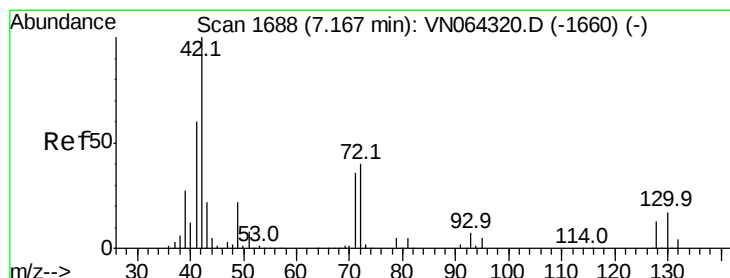
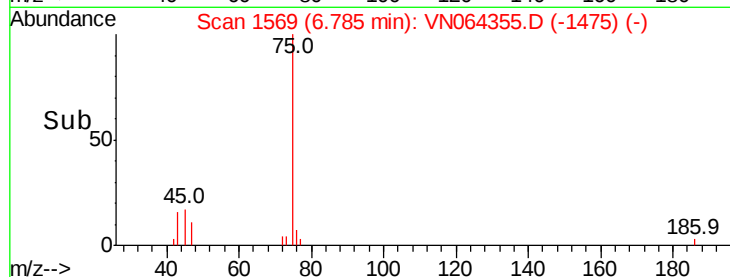
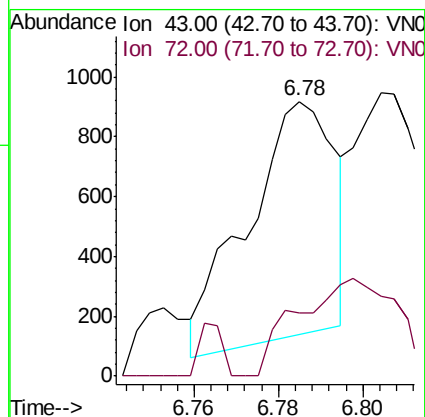
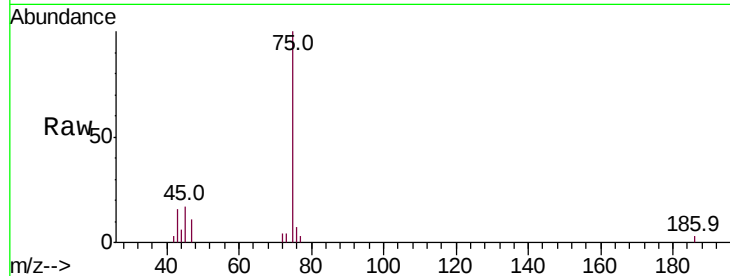
PB132665ZHE#07

Tot Ion: 43 Resp: 1124

Ion Ratio Lower Upper

43 100

72 28.8 18.8 28.2#



#29

Tetrahydrofuran

Concen: 0.357 ug/l

RT: 7.16 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

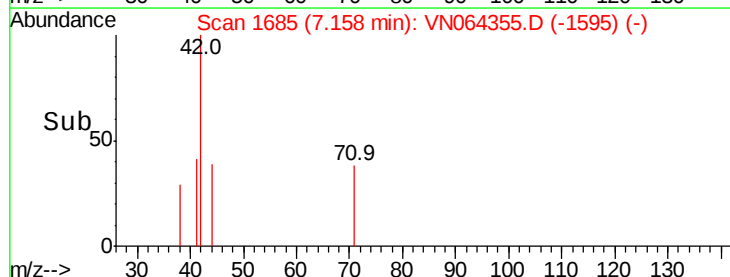
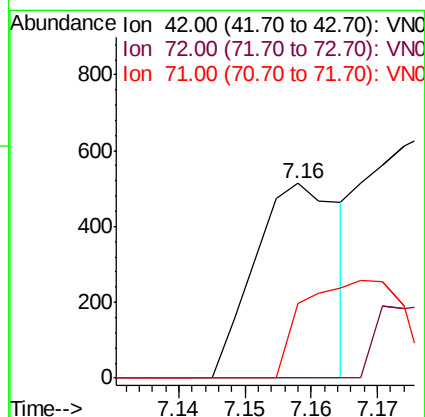
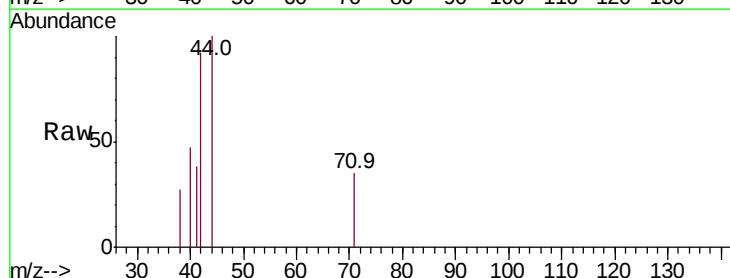
Tgt Ion: 42 Resp: 460

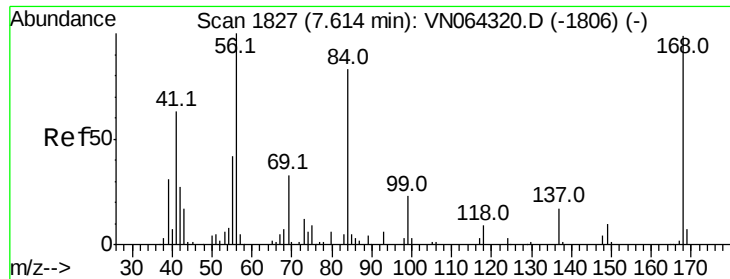
Ion Ratio Lower Upper

42 100

72 0.0 31.6 47.4#

71 57.0 29.4 44.0#

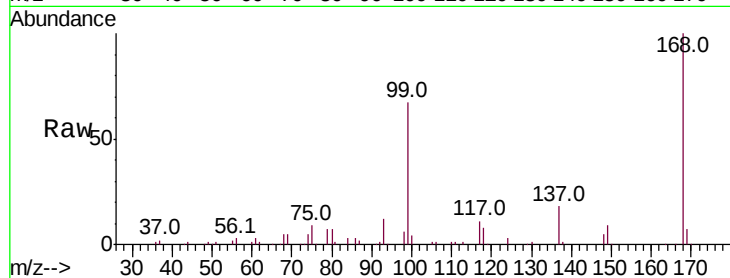




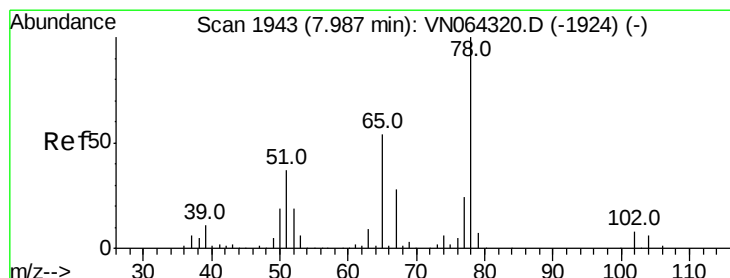
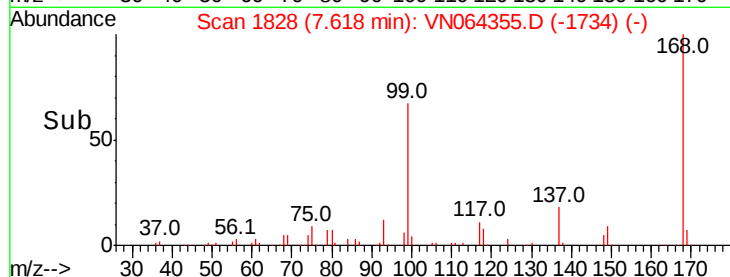
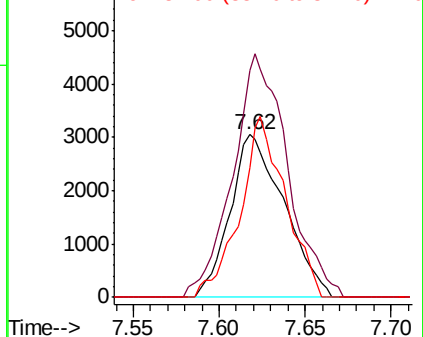
#31
Cyclohexane
Concen: 1.448 ug/l
RT: 7.62 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN064355.D
Acq: 28 Oct 2020 16:21

Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#07

Tot Ion: 56 Resp: 6639
Ion Ratio Lower Upper
56 100
69 133.4 25.8 38.8#
84 80.2 66.3 99.5

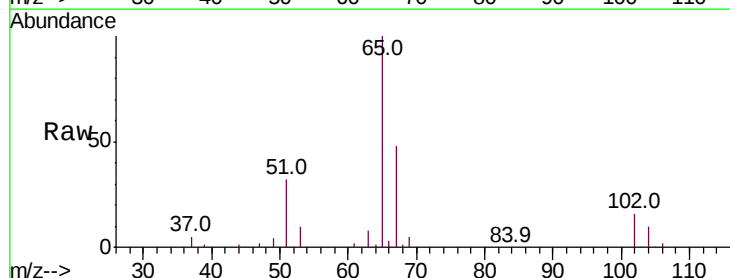


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

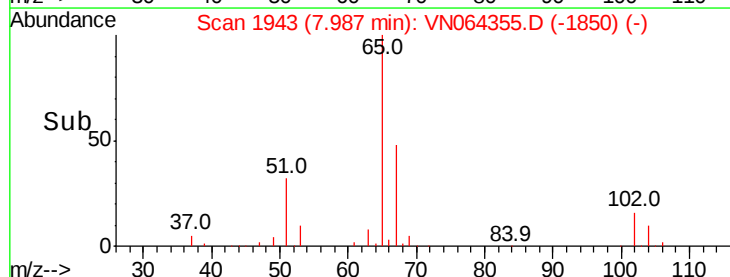
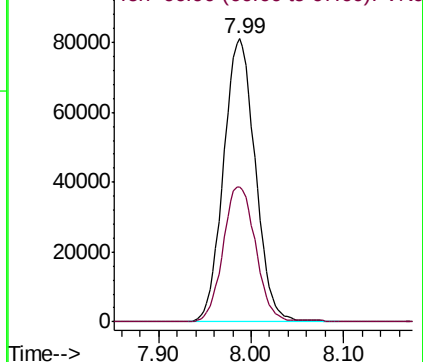


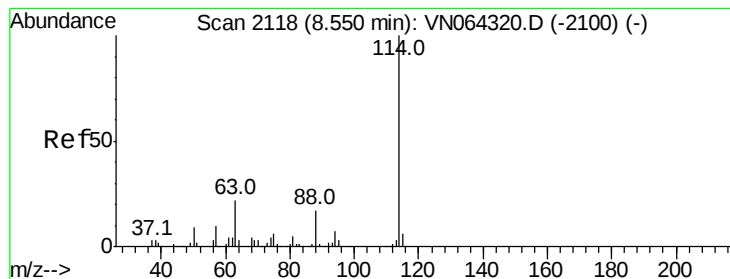
#33
1,2-Dichloroethane-d4
Concen: 48.802 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064355.D
Acq: 28 Oct 2020 16:21

Tgt Ion: 65 Resp: 192801
Ion Ratio Lower Upper
65 100
67 48.9 0.0 99.2



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: VN064355.D

Acq: 28 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#07

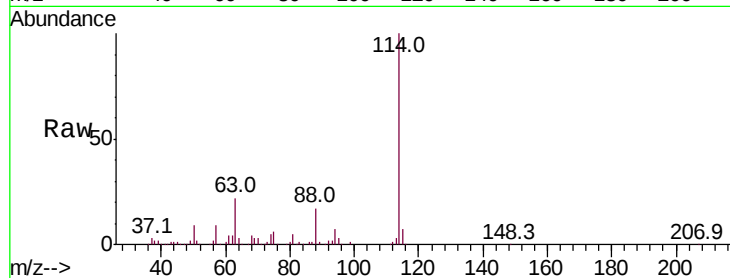
Tot Ion:114 Resp: 424033

Ion Ratio Lower Upper

114 100

63 21.5 0.0 44.6

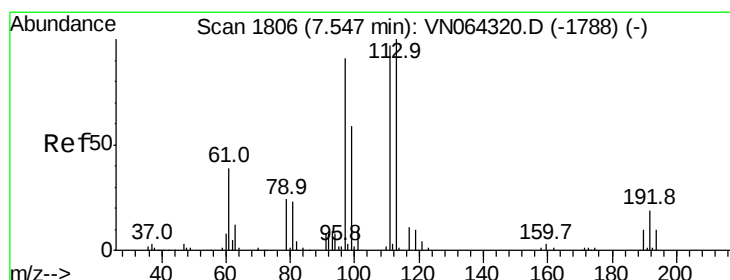
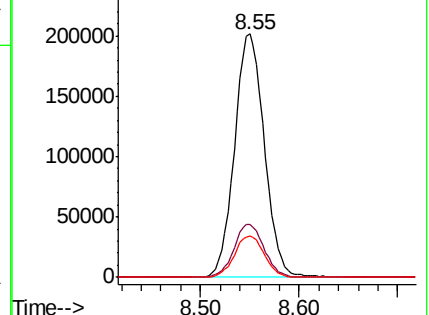
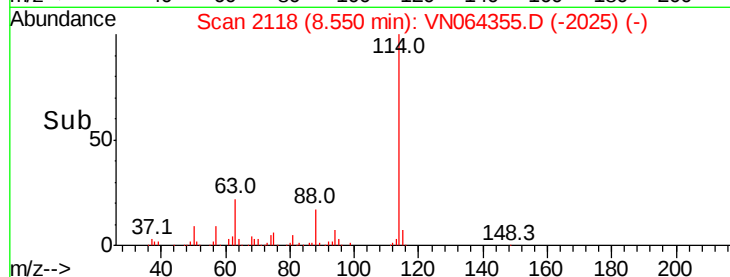
88 16.9 0.0 33.4



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: 48.307 ug/l

RT: 7.55 min Scan# 1806

Delta R.T. 0.00 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

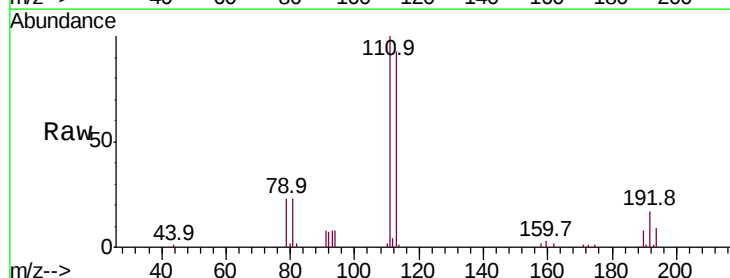
Tgt Ion:113 Resp: 136600

Ion Ratio Lower Upper

113 100

111 103.6 81.5 122.3

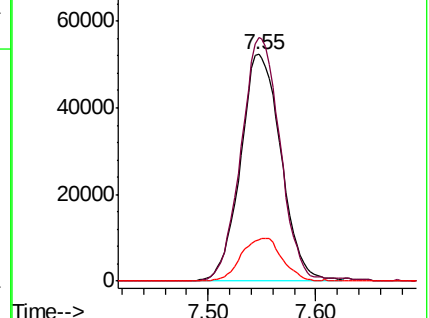
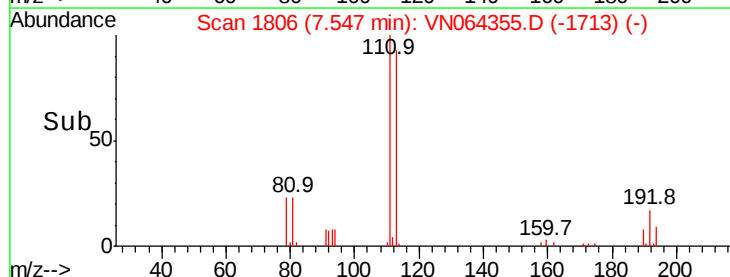
192 19.0 15.0 22.4

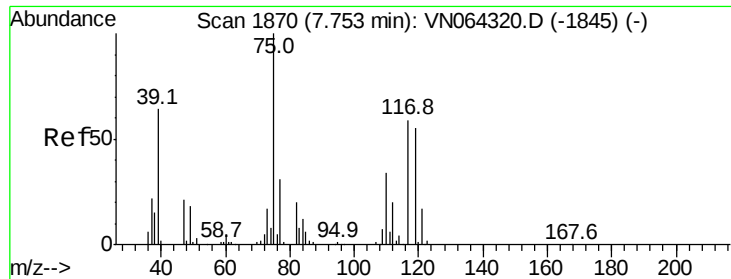


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.986 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

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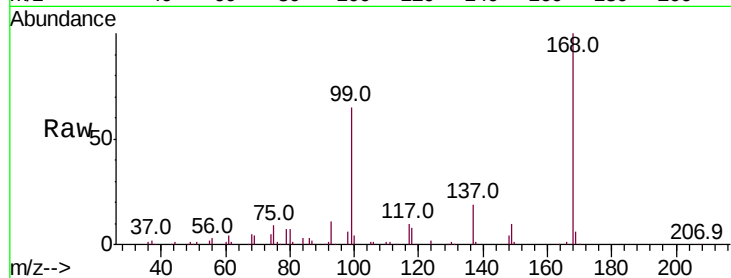
Tot Ion: 75 Resp: 21339

Ion Ratio Lower Upper

75 100

110 0.0 16.8 50.3#

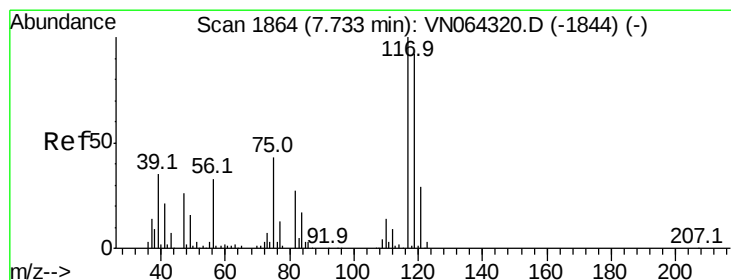
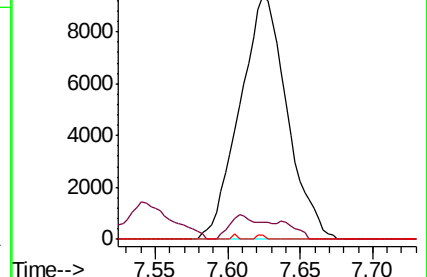
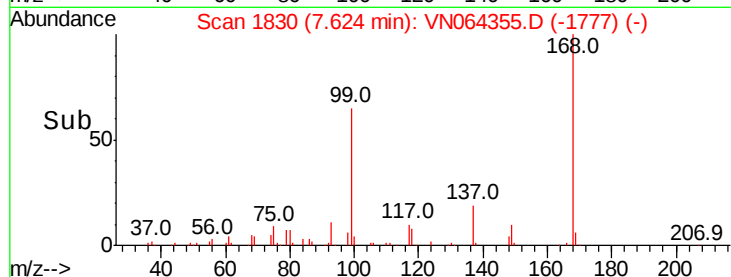
77 0.3 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VN064320.D (-1845) (-)

Ion 109.90 (109.60 to 110.60): VN064320.D (-1845) (-)

Ion 76.90 (76.60 to 77.60): VN064320.D (-1845) (-)



#38

Carbon Tetrachloride

Concen: 5.371 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

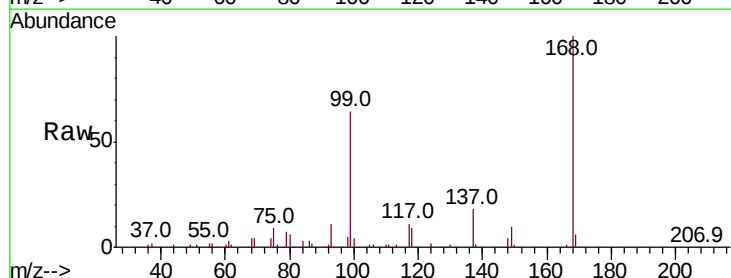
Tgt Ion: 117 Resp: 26647

Ion Ratio Lower Upper

117 100

119 3.3 73.7 110.5#

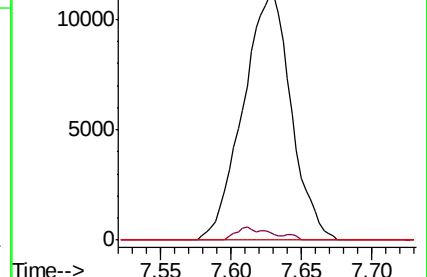
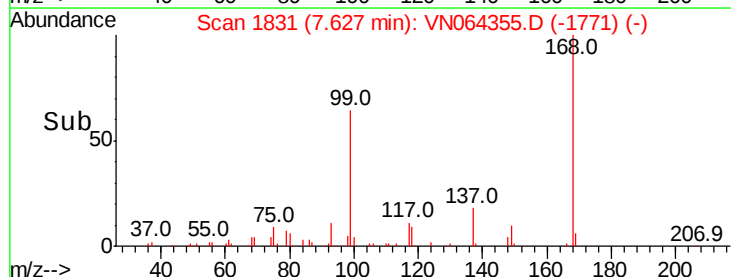
121 0.0 22.8 34.2#

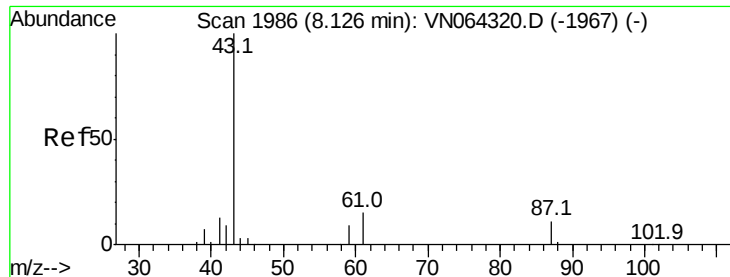


Abundance Ion 116.80 (116.50 to 117.50): VN064320.D (-1844) (-)

Ion 118.80 (118.50 to 119.50): VN064320.D (-1844) (-)

Ion 120.80 (120.50 to 121.50): VN064320.D (-1844) (-)





#43

Isopropyl Acetate

Concen: 12.993 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

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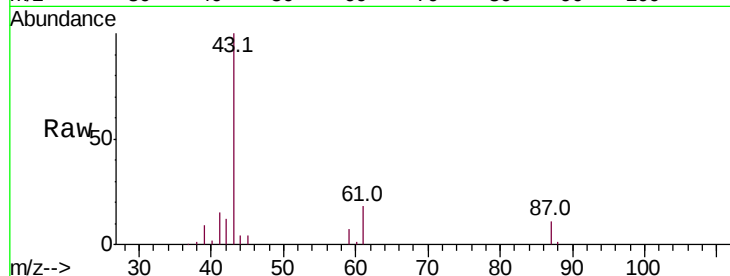
Tot Ion: 43 Resp: 96007

Ion Ratio Lower Upper

43 100

61 18.5 19.1 28.7#

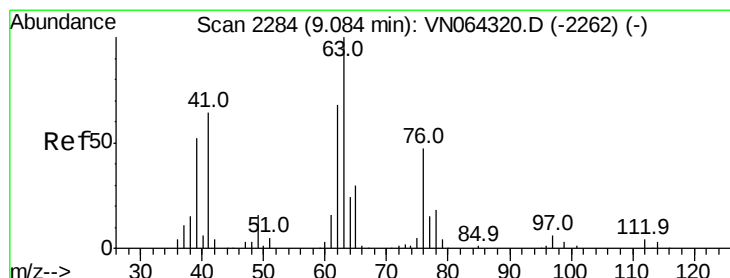
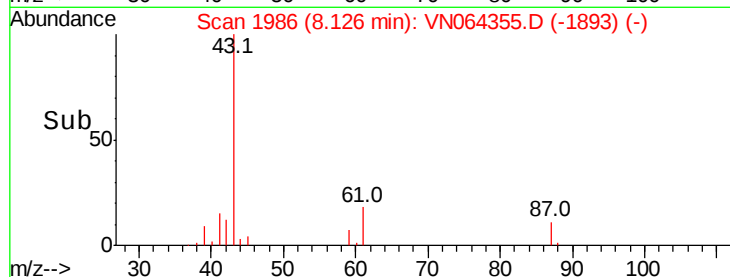
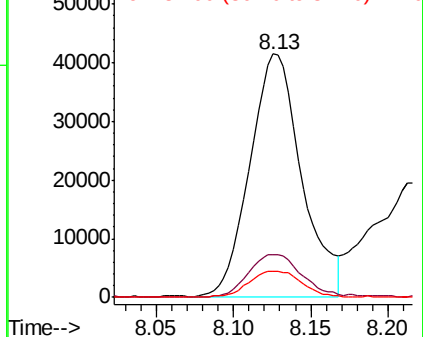
87 11.0 9.3 13.9



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: 0.209 ug/l

RT: 9.22 min Scan# 2327

Delta R.T. 0.14 min

Lab File: VN064355.D

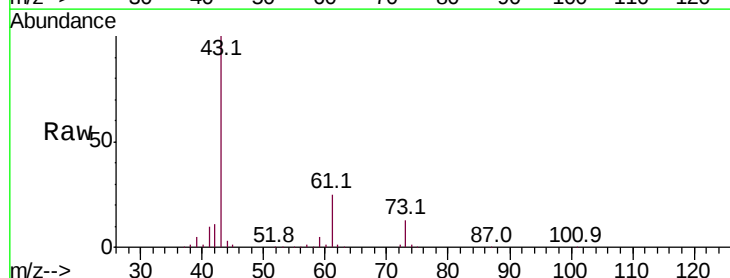
Acq: 28 Oct 2020 16:21

Tgt Ion: 63 Resp: 666

Ion Ratio Lower Upper

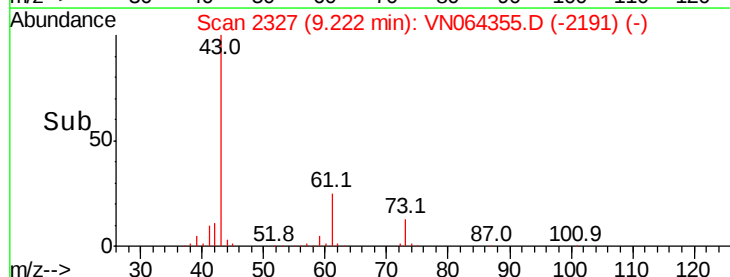
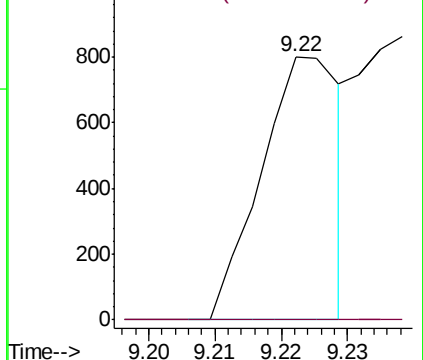
63 100

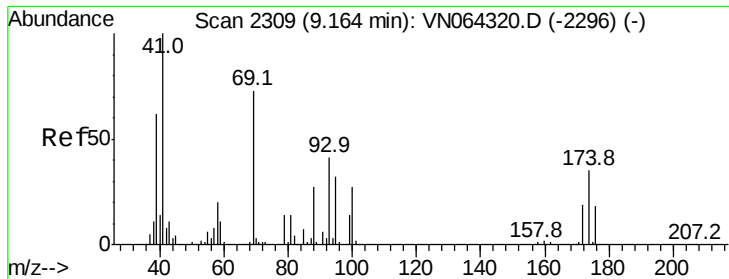
65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

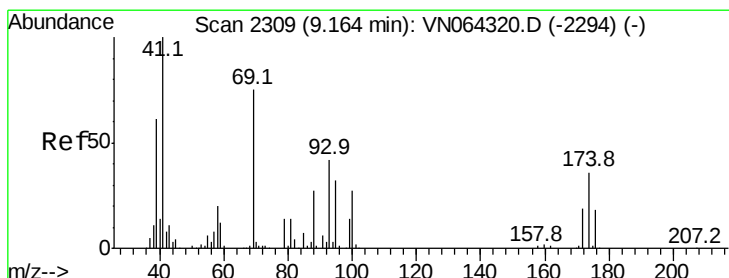
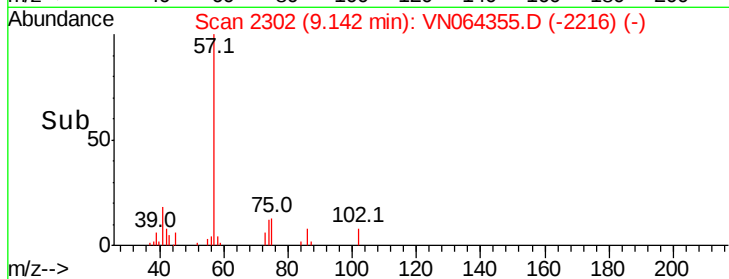
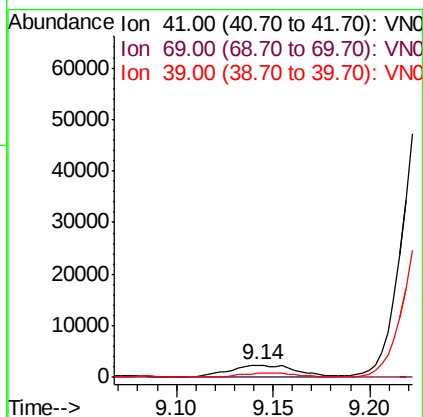
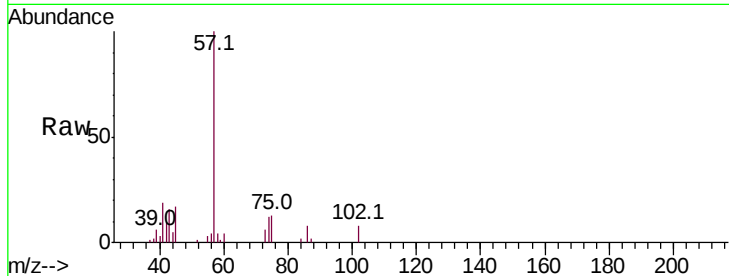




#48
Methyl methacrylate
Concen: 1.552 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN064355.D
Acq: 28 Oct 2020 16:21

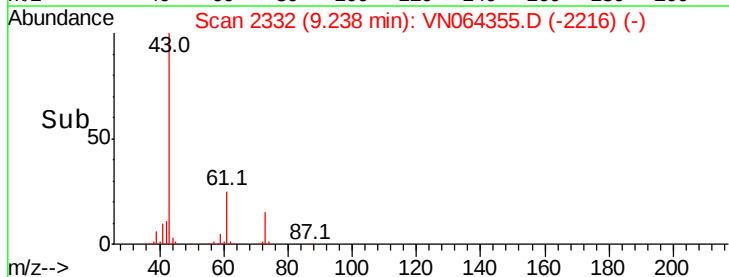
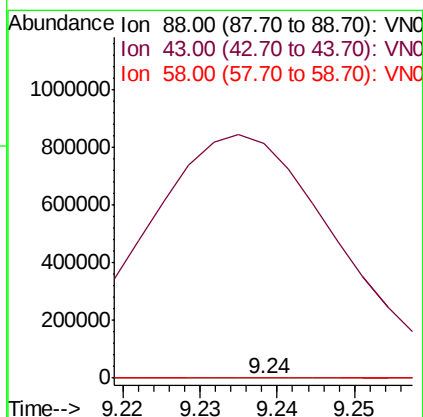
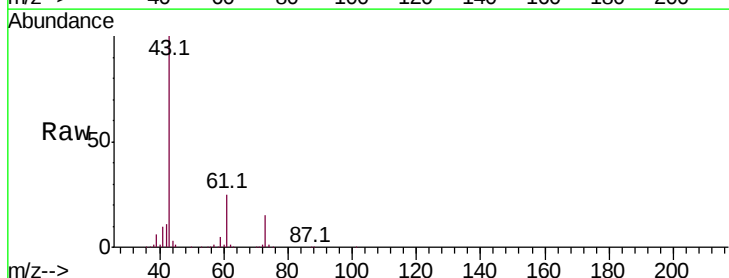
Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#07

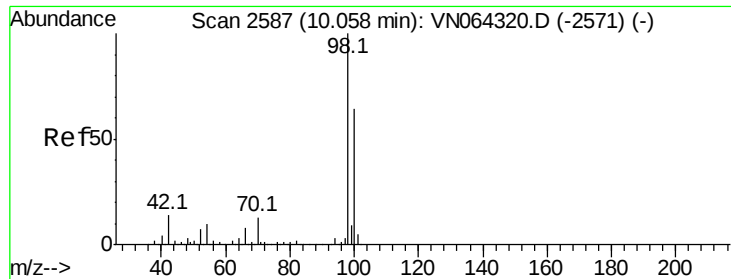
Tot Ion: 41 Resp: 5915
Ion Ratio Lower Upper
41 100
69 0.0 59.1 88.7#
39 0.0 51.3 76.9#



#49
1,4-Dioxane
Concen: 2.011 ug/l
RT: 9.24 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN064355.D
Acq: 28 Oct 2020 16:21

Tgt Ion: 88 Resp: 113
Ion Ratio Lower Upper
88 100
43 1369538.1 31.8 47.8#
58 5343.4 60.3 90.5#





#50

Toluene-d8

Concen: 50.535 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

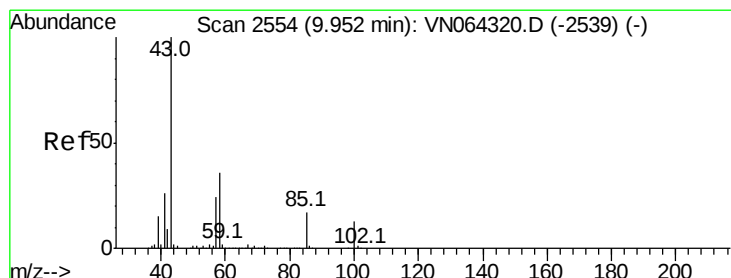
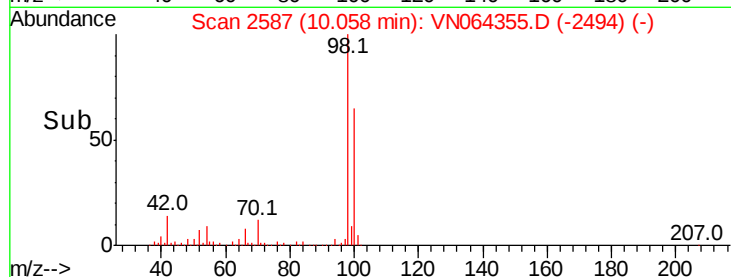
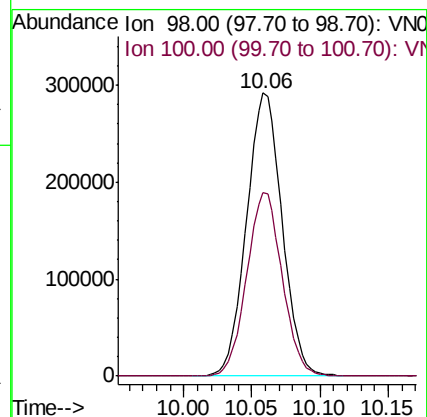
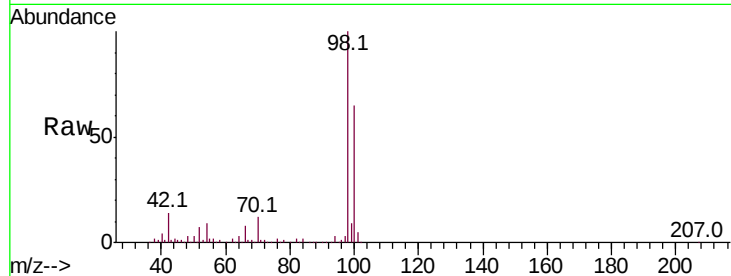
PB132665ZHE#07

Tot Ion: 98 Resp: 528580

Ion Ratio Lower Upper

98 100

100 64.7 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 1.605 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064355.D

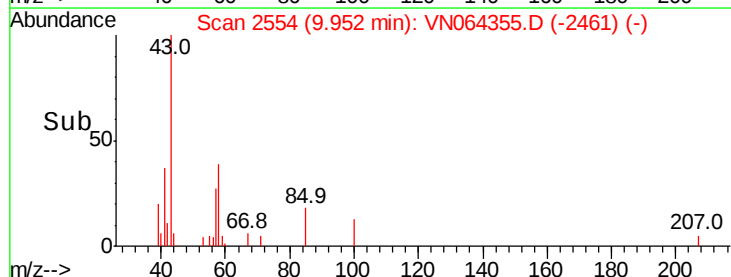
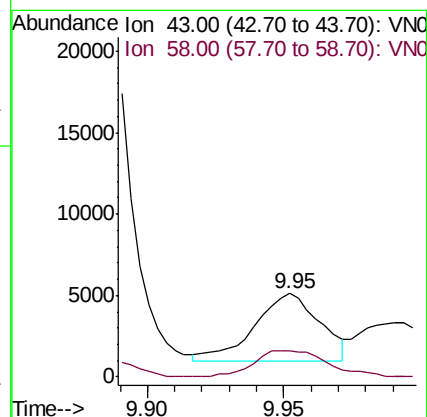
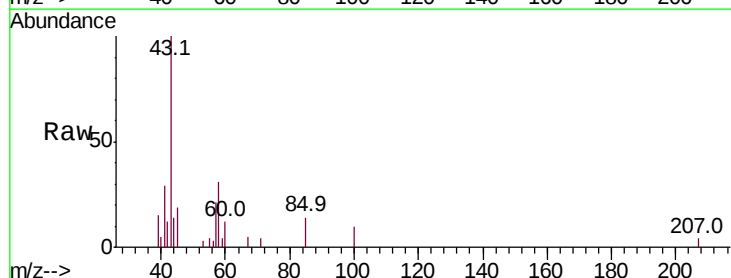
Acq: 28 Oct 2020 16:21

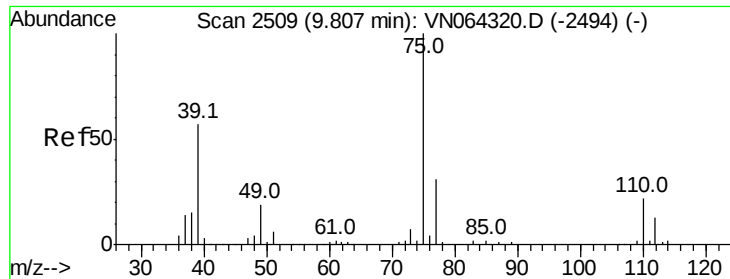
Tgt Ion: 43 Resp: 6895

Ion Ratio Lower Upper

43 100

58 43.7 28.6 42.8#





#54

cis-1,3-Dichloropropene

Concen: 6.801 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#07

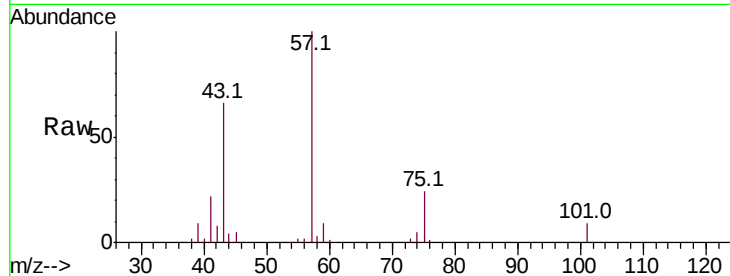
Tot Ion: 75 Resp: 36607

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

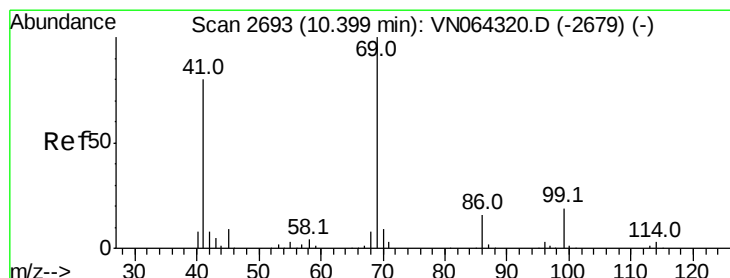
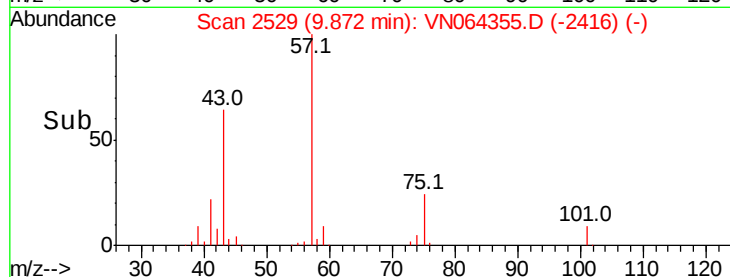
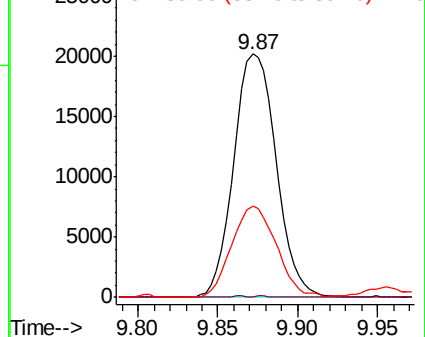
39 37.6 45.5 68.3#



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



#56

Ethyl methacrylate

Concen: 0.369 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

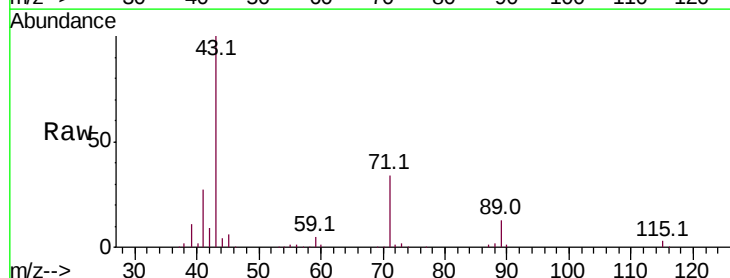
Tgt Ion: 69 Resp: 1657

Ion Ratio Lower Upper

69 100

41 5661.0 61.4 92.2#

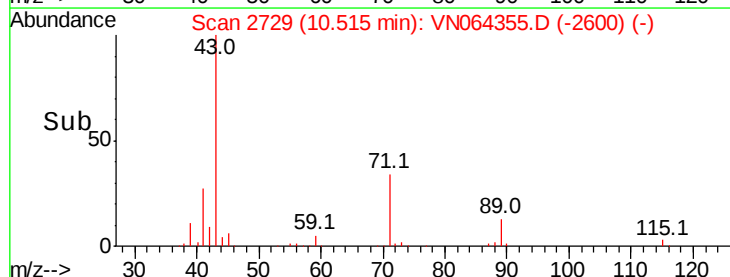
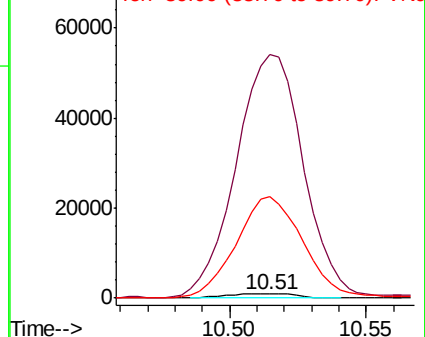
39 2324.9 36.5 54.7#

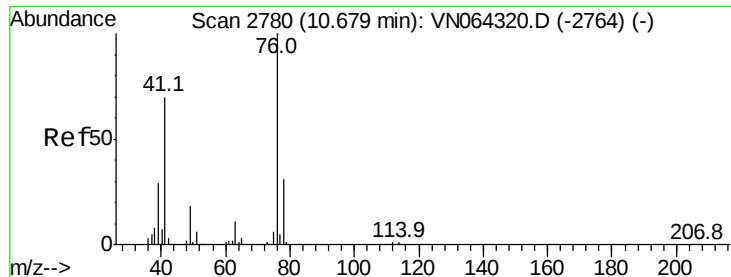


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.159 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

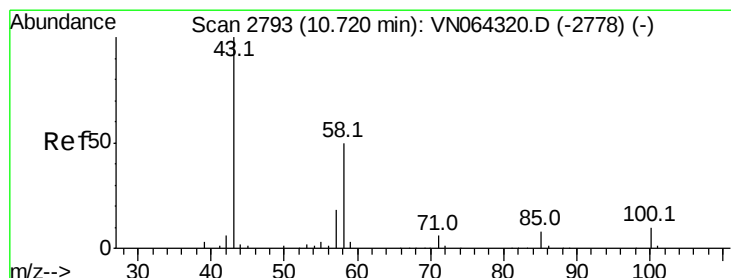
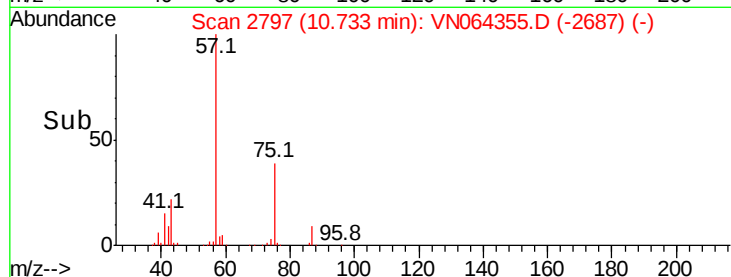
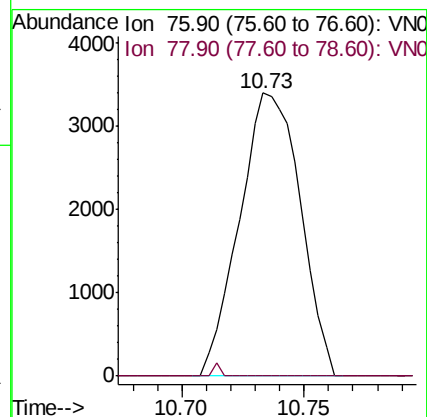
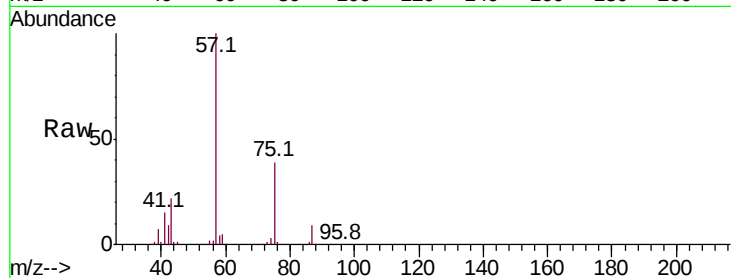
PB132665ZHE#07

Tot Ion: 76 Resp: 5868

Ion Ratio Lower Upper

76 100

78 0.5 25.8 38.6#



#59

2-Hexanone

Concen: 31.793 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064355.D

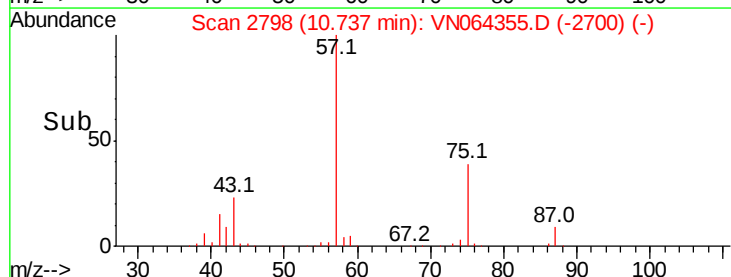
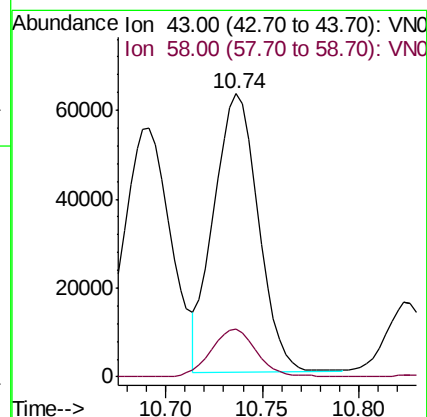
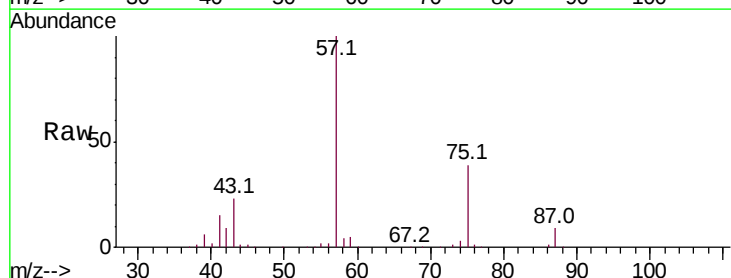
Acq: 28 Oct 2020 16:21

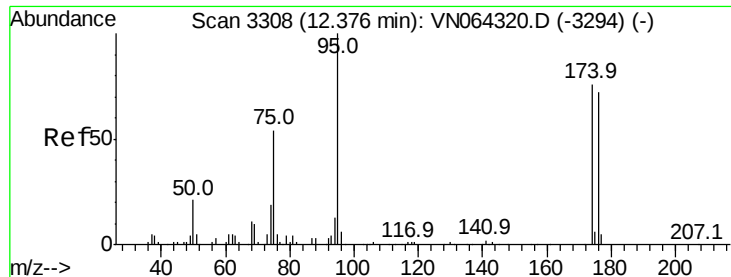
Tgt Ion: 43 Resp: 100575

Ion Ratio Lower Upper

43 100

58 17.7 25.0 75.0#





#62

4-Bromofluorobenzene

Concen: 55.465 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#07

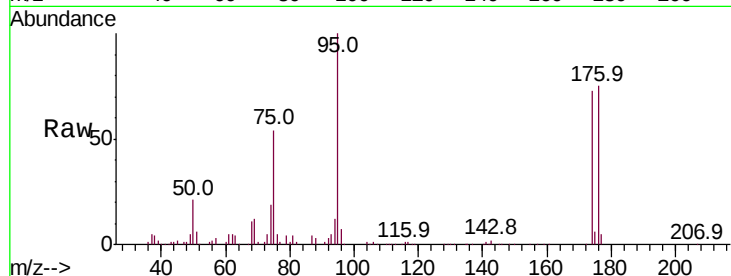
Tot Ion: 95 Resp: 226192

Ion Ratio Lower Upper

95 100

174 73.4 0.0 147.4

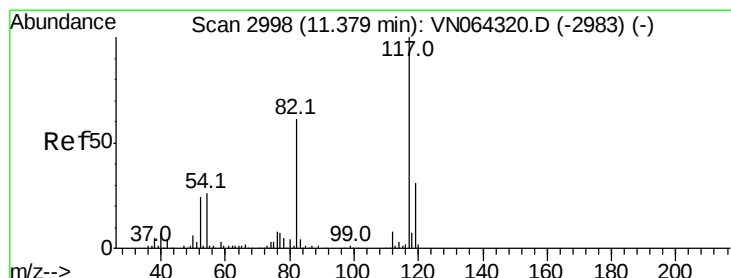
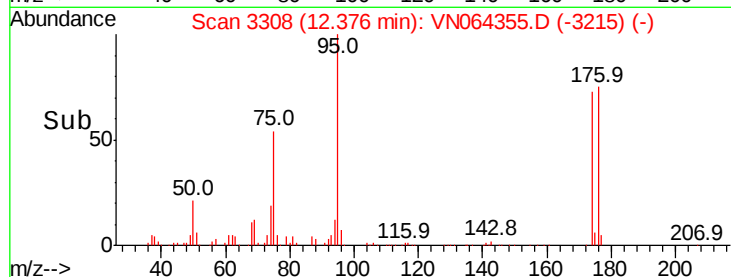
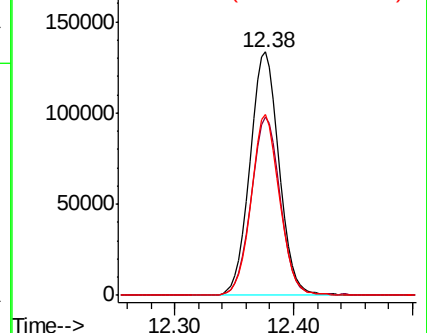
176 72.4 0.0 143.6



Abundance Ion 94.90 (94.60 to 95.60): VN064320.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN064320.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN064320.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

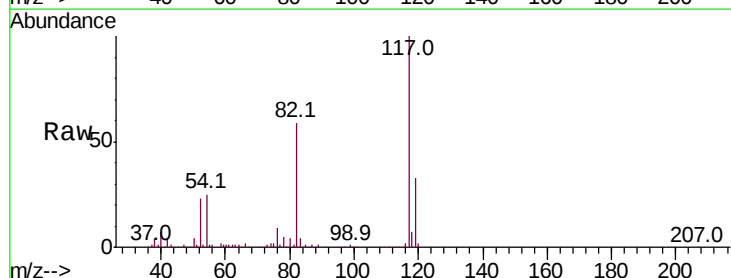
Tgt Ion: 117 Resp: 421480

Ion Ratio Lower Upper

117 100

82 59.0 48.8 73.2

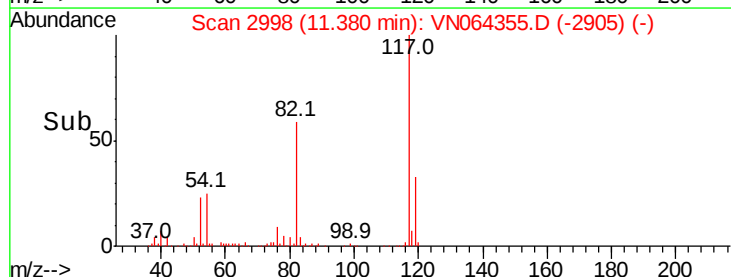
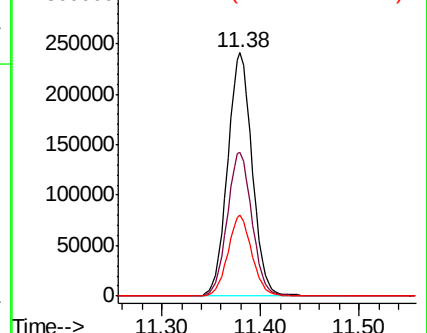
119 33.1 25.1 37.7

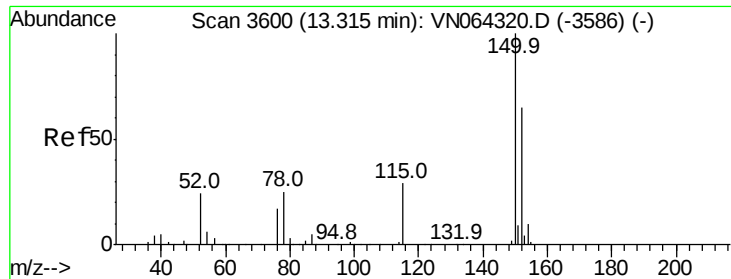


Abundance Ion 116.90 (116.60 to 117.60): VN064320.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN064320.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN064320.D (-2983) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#07

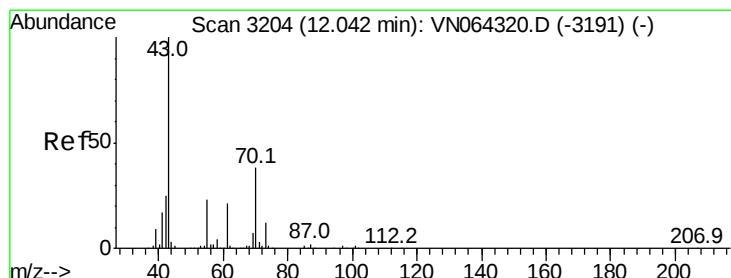
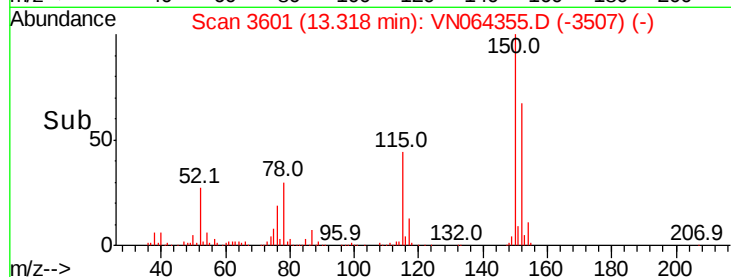
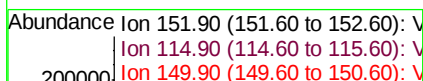
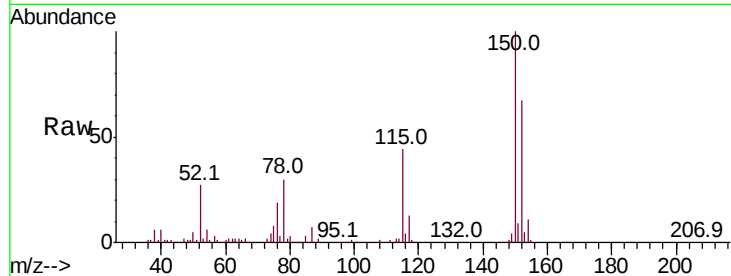
Tot Ion:152 Resp: 178063

Ion Ratio Lower Upper

152 100

115 65.3 31.5 94.5

150 155.9 0.0 346.2



#74

N-ethyl acetate

Concen: 0.870 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

Tgt Ion: 43 Resp: 5107

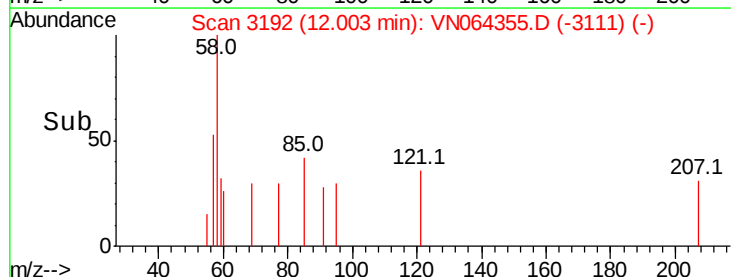
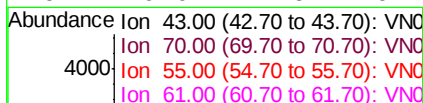
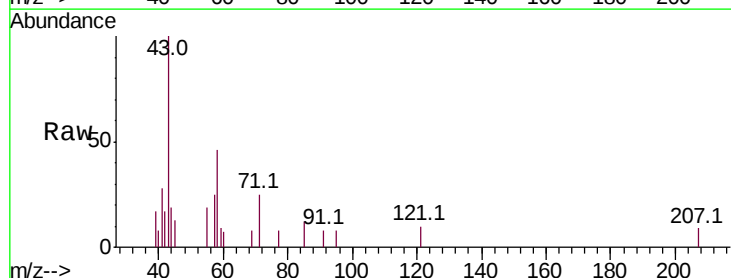
Ion Ratio Lower Upper

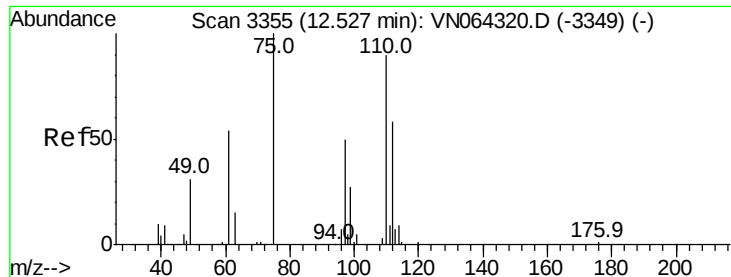
43 100

70 0.0 30.6 45.8#

55 6.9 18.2 27.4#

61 0.0 17.6 26.4#





#76

1,2,3-Trichloropropane

Concen: 28.778 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

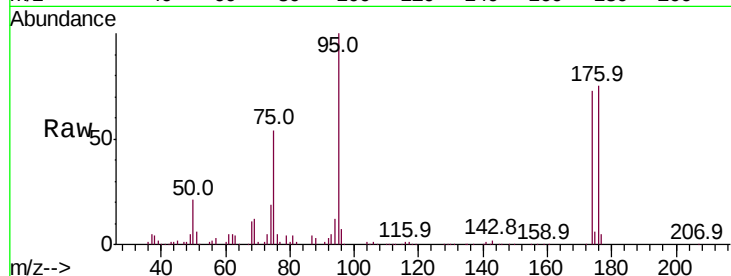
PB132665ZHE#07

Tot Ion: 75 Resp: 122713

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.38

80000

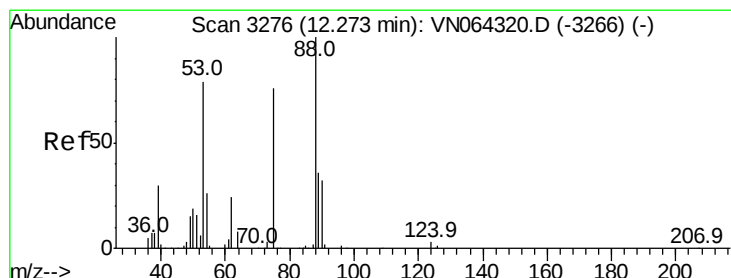
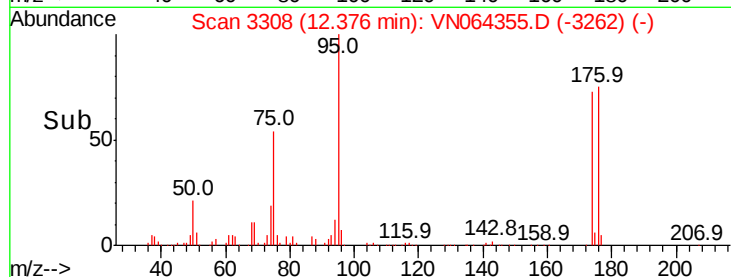
60000

40000

20000

0

Time--> 12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 82.896 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

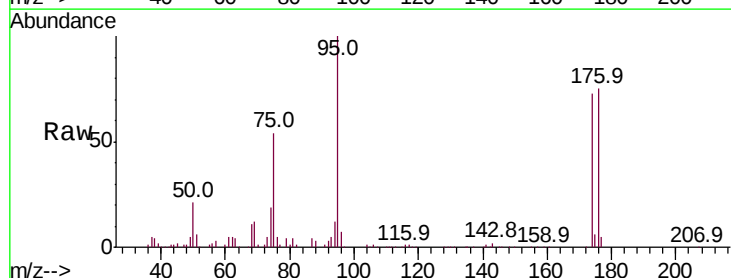
Tgt Ion: 75 Resp: 122713

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

89 0.1 39.9 59.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

100000

80000

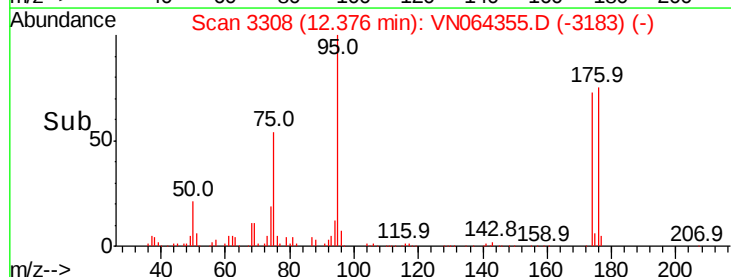
60000

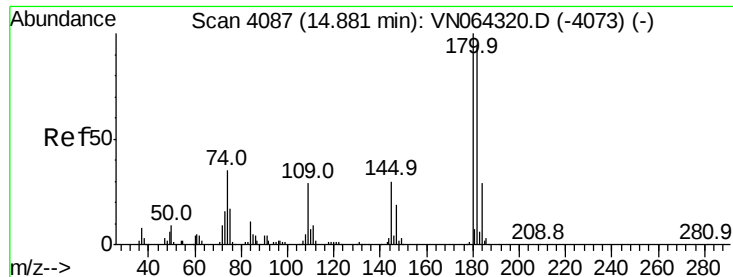
40000

20000

0

Time--> 12.30 12.35 12.40 12.45

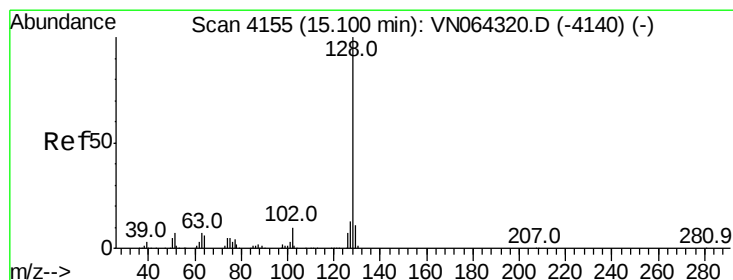
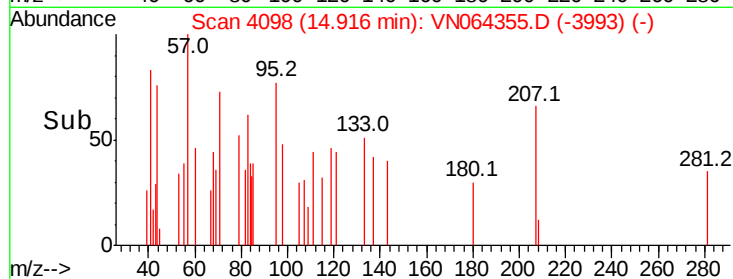
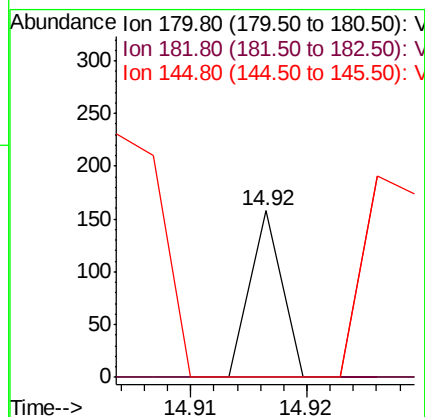
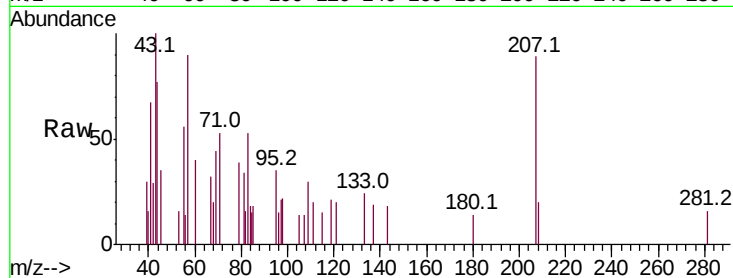




#93
 1,2,4-Trichlorobenzene
 Concen: 2.027 ug/l
 RT: 14.92 min Scan# 4098
 Delta R.T. 0.04 min
 Lab File: VN064355.D
 Acq: 28 Oct 2020 16:21

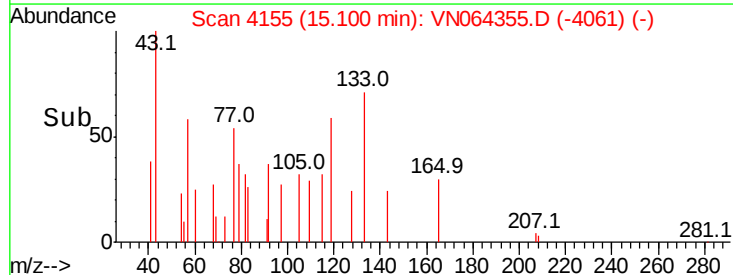
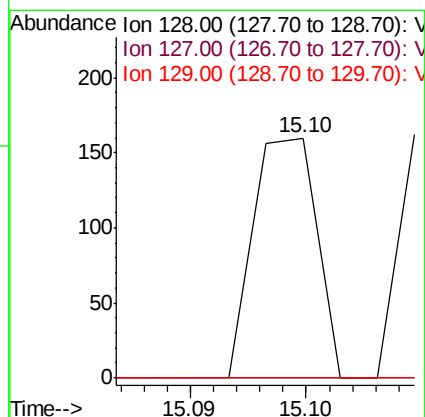
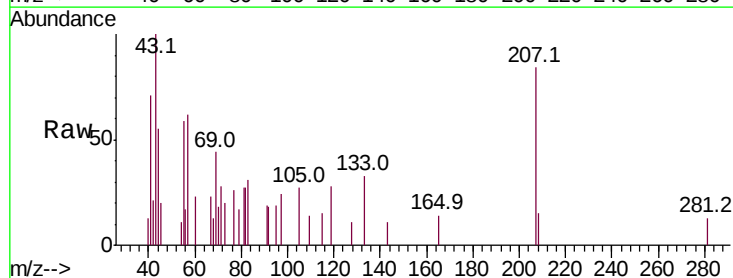
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132665ZHE#07

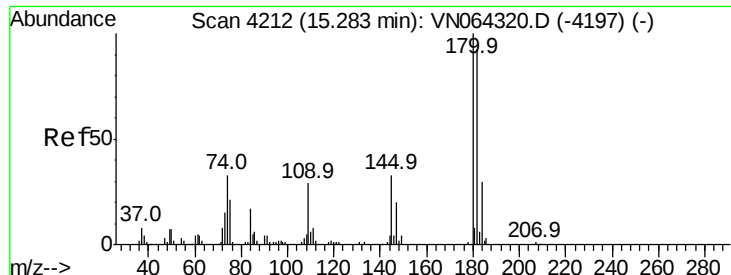
Tot Ion:180 Resp: 30
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.6 139.7#
 145 236.7 15.3 45.9#



#95
 Naphthalene
 Concen: 2.398 ug/l
 RT: 15.10 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN064355.D
 Acq: 28 Oct 2020 16:21

Tgt Ion:128 Resp: 61
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 0.0 8.6 13.0#





#96

1,2,3-Trichlorobenzene

Concen: 2.212 ug/l

RT: 15.46 min Scan# 4266

Delta R.T. 0.17 min

Lab File: VN064355.D

Acq: 28 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#07

Tot Ion:180 Resp: 100

Ion Ratio Lower Upper

180 100

182 0.0 46.1 138.3#

145 0.0 16.2 48.5#

