

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064981.D
 Acq On : 8 Dec 2020 19:50
 Operator : JC/MD
 Sample : PB133456ZHE#18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#18

Quant Time: Dec 09 06:54:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	169601	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	332545	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	345401	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	146657	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	108919	55.24	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	110.48%
35) Dibromofluoromethane	7.55	113	101565	51.04	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	102.08%
50) Toluene-d8	10.06	98	415661	51.12	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.24%
62) 4-Bromofluorobenzene	12.38	95	154763	53.19	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	106.38%

Target Compounds

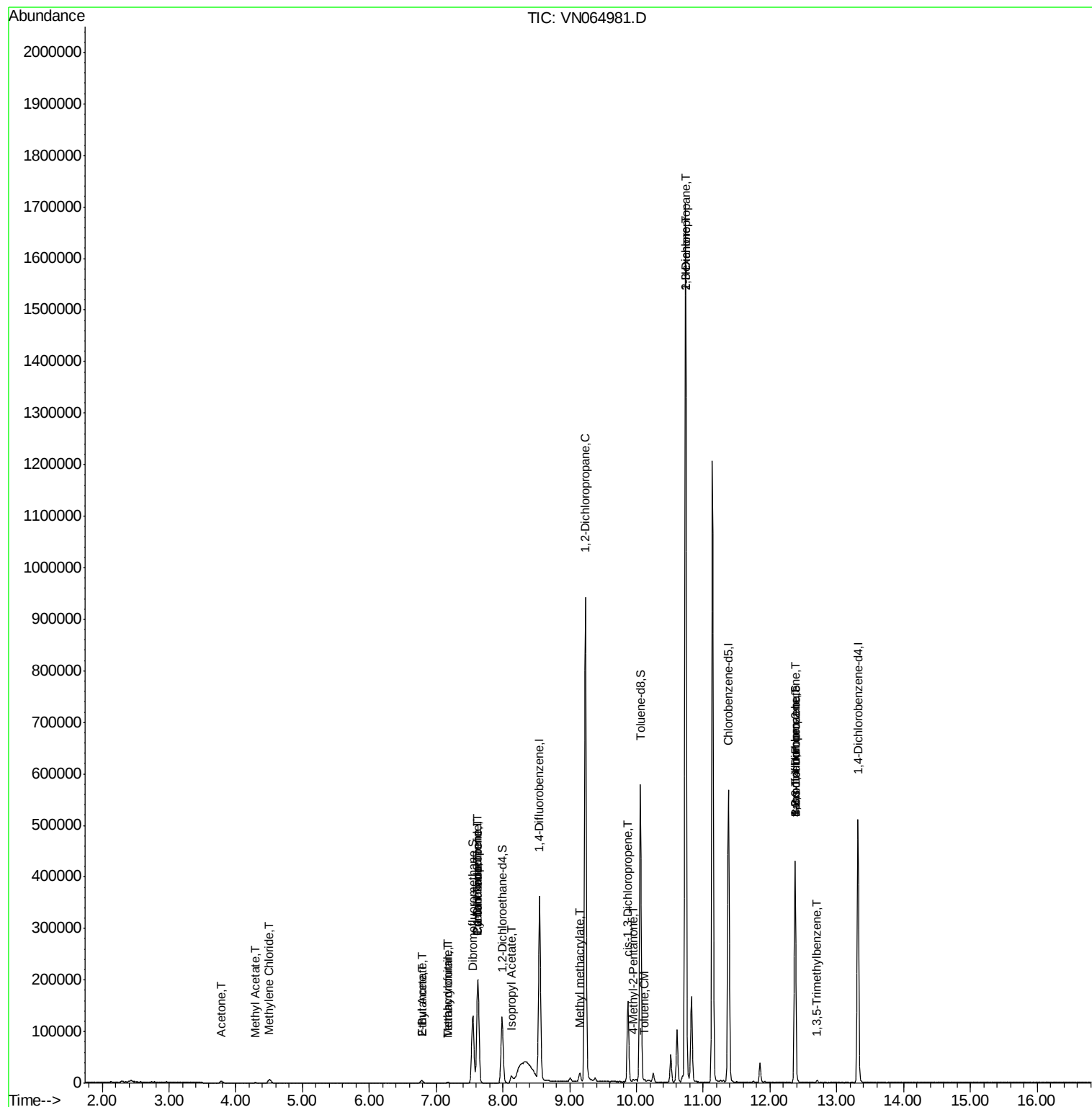
					Qvalue	
16) Acetone	3.78	43	5813	8.968	ug/l	92
18) Methyl Acetate	4.29	43	704	0.361	ug/l #	58
20) Methylene Chloride	4.50	84	5748	2.830	ug/l #	87
25) 2-Butanone	6.80	43	2747	2.614	ug/l	91
29) Tetrahydrofuran	7.17	42	1186	1.635	ug/l #	44
31) Cyclohexane	7.62	56	2898	1.055	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11893	3.858	ug/l #	45
37) Ethyl Acetate	6.80	43	2747	0.925	ug/l #	66
38) Carbon Tetrachloride	7.62	117	15475	4.825	ug/l #	18
41) Methacrylonitrile	7.17	41	687	0.501	ug/l #	14
43) Isopropyl Acetate	8.13	43	17995	3.766	ug/l	93
45) 1,2-Dichloropropane	9.23	63	1113	0.455	ug/l #	43
48) Methyl methacrylate	9.14	41	4146	1.816	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3633	1.267	ug/l	96
52) Toluene	10.12	92	1552	0.267	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	29431	7.497	ug/l #	62
57) 1,3-Dichloropropane	10.74	76	18113	4.591	ug/l #	42
59) 2-Hexanone	10.74	43	232745	112.750	ug/l #	50
71) Bromoform	12.37	173	467	0.214	ug/l #	29
76) 1,2,3-Trichloropropane	12.37	75	73931	23.408	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.70	105	2022	0.238	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.37	75	73931	64.155	ug/l #	15

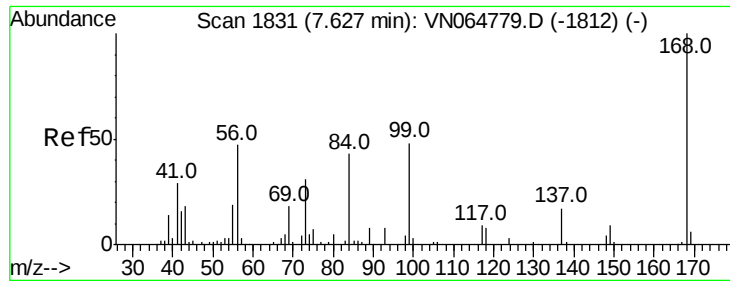
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 23 13:54:12 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: VN064981.D

Acq: 8 Dec 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

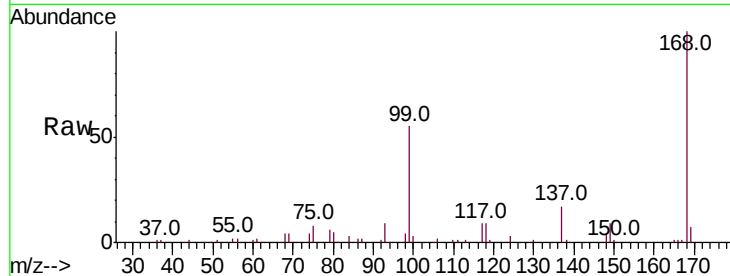
PB133456ZHE#18

Tot Ion:168 Resp: 169601

Ion Ratio Lower Upper

168 100

99 54.8 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

60000

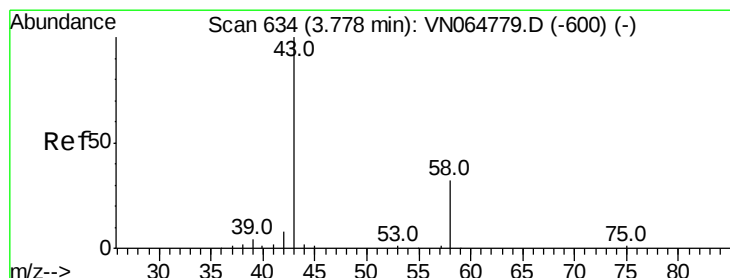
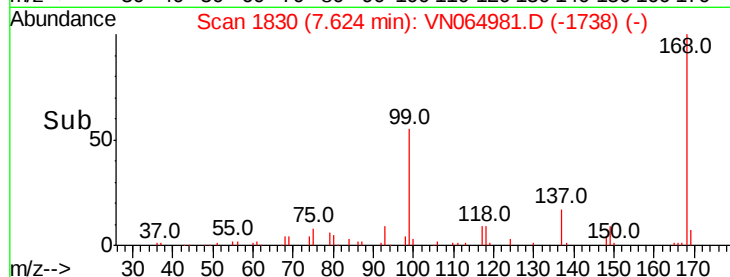
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#16

Acetone

Concen: 8.968 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN064981.D

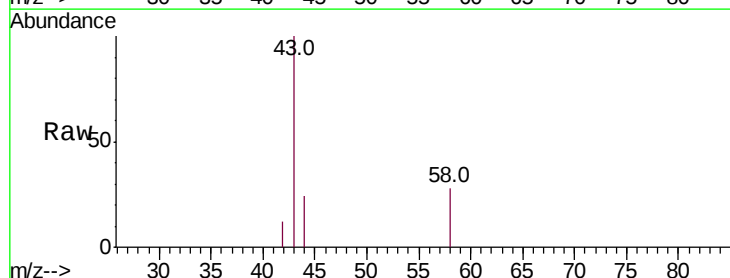
Acq: 8 Dec 2020 19:50

Tgt Ion: 43 Resp: 5813

Ion Ratio Lower Upper

43 100

58 27.9 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

2000

1500

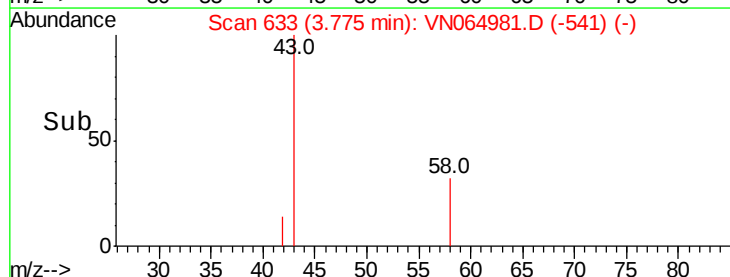
1000

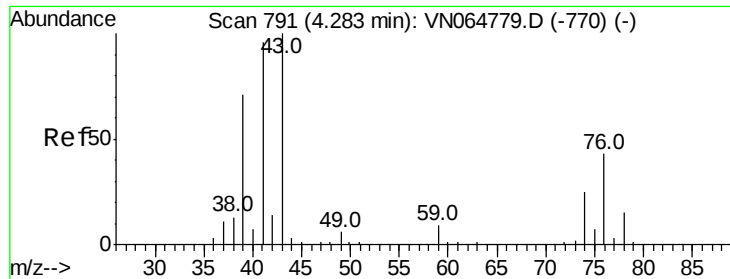
500

0

3.70 3.75 3.80 3.85

Time-->

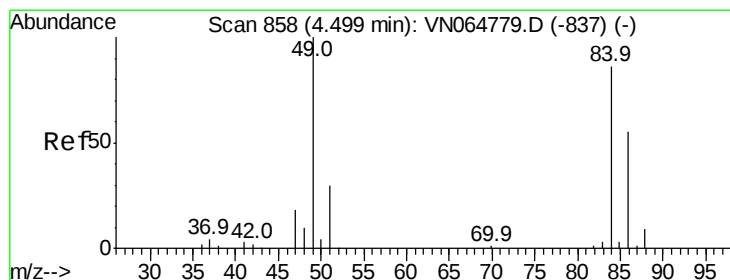
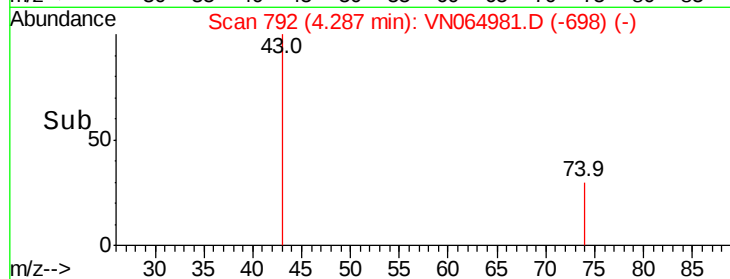
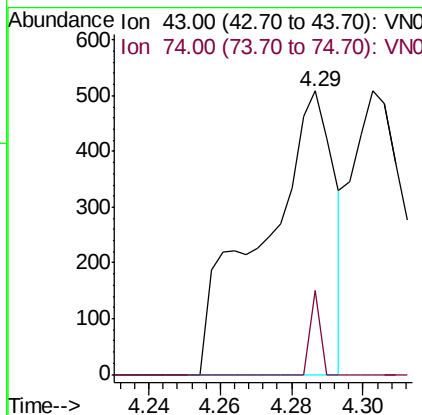
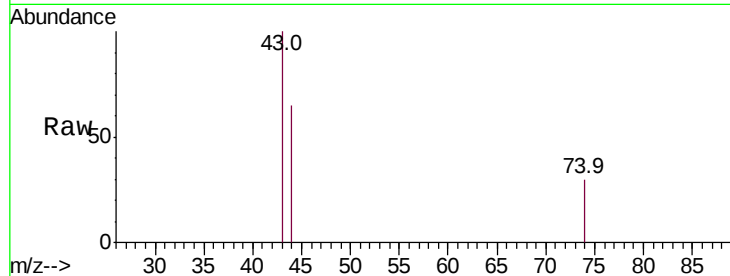




#18
Methyl Acetate
Concen: 0.361 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.00 min
Lab File: VN064981.D
Acq: 8 Dec 2020 19:50

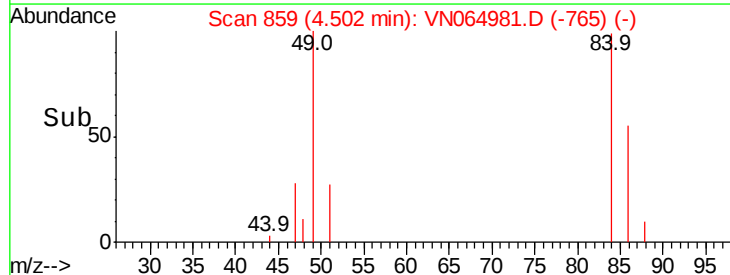
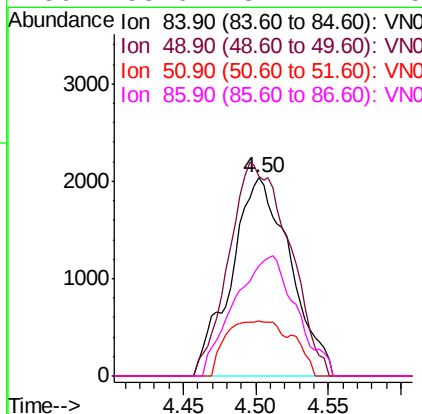
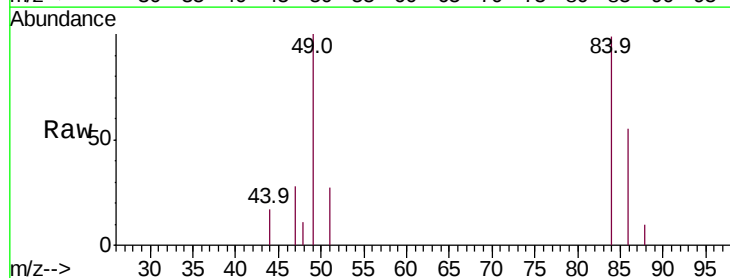
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#18

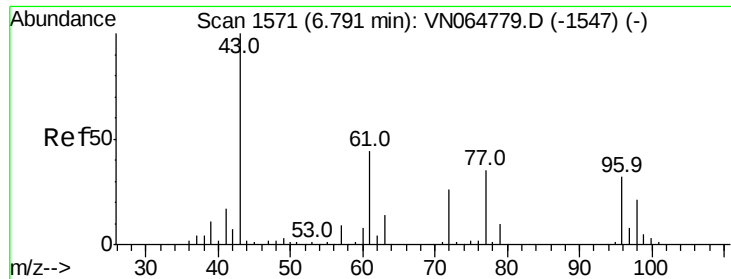
Tot Ion: 43 Resp: 704
Ion Ratio Lower Upper
43 100
74 4.1 20.2 30.2#



#20
Methylene Chloride
Concen: 2.830 ug/l
RT: 4.50 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN064981.D
Acq: 8 Dec 2020 19:50

Tgt Ion: 84 Resp: 5748
Ion Ratio Lower Upper
84 100
49 100.7 93.4 140.0
51 27.5 28.2 42.4#
86 55.6 51.7 77.5

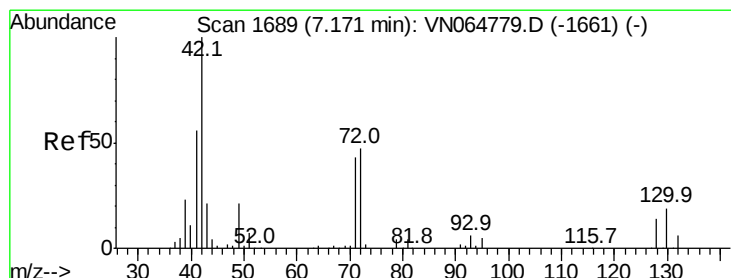
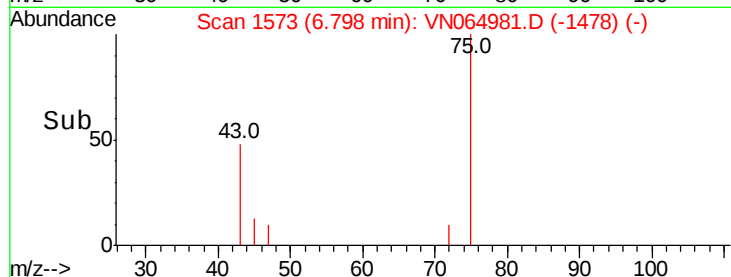
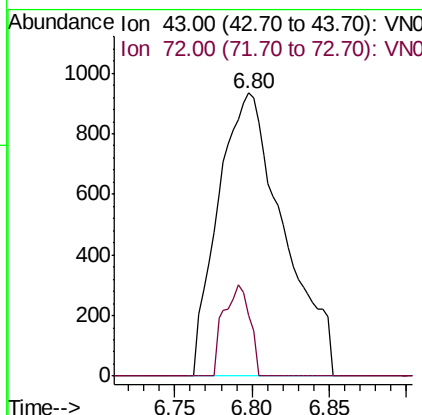
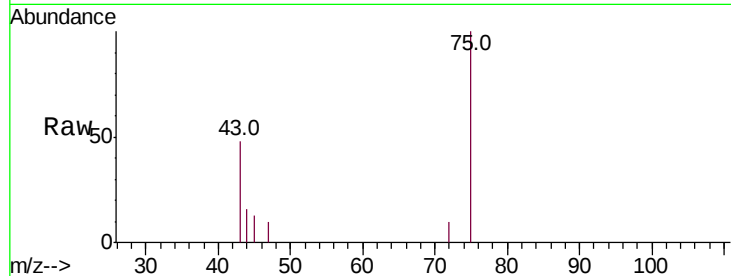




#25
2-Butanone
Concen: 2.614 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN064981.D
Acq: 8 Dec 2020 19:50

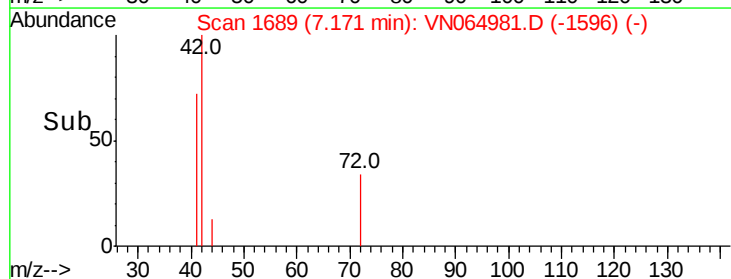
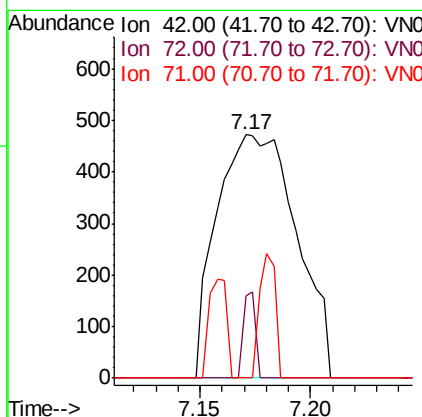
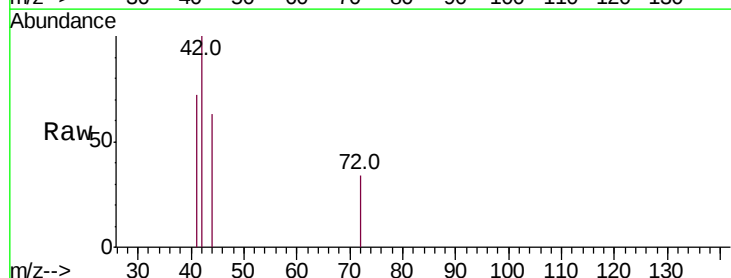
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#18

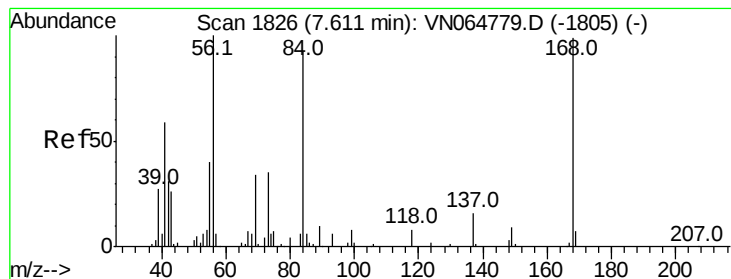
Tot Ion: 43 Resp: 2747
Ion Ratio Lower Upper
43 100
72 21.6 21.0 31.6



#29
Tetrahydrofuran
Concen: 1.635 ug/l
RT: 7.17 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VN064981.D
Acq: 8 Dec 2020 19:50

Tgt Ion: 42 Resp: 1186
Ion Ratio Lower Upper
42 100
72 5.3 36.6 54.8#
71 10.3 33.6 50.4#





#31

Cyclohexane

Concen: 1.055 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN064981.D

Acq: 8 Dec 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#18

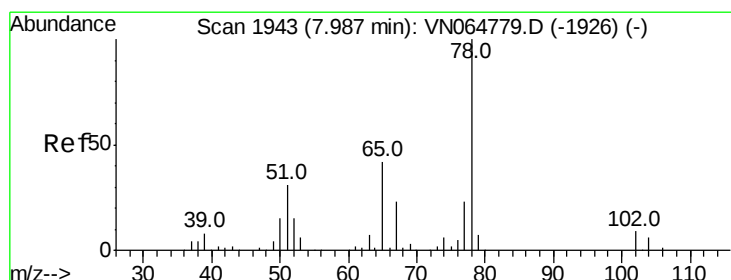
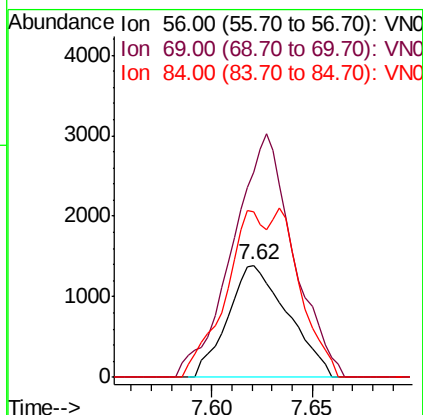
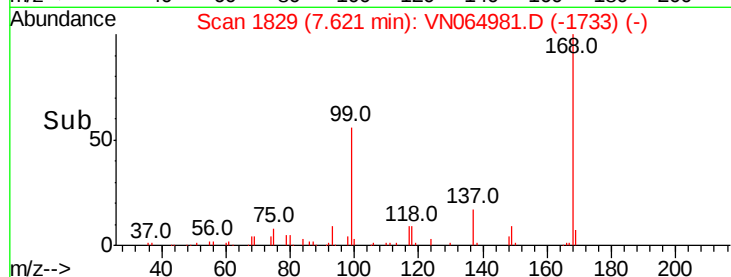
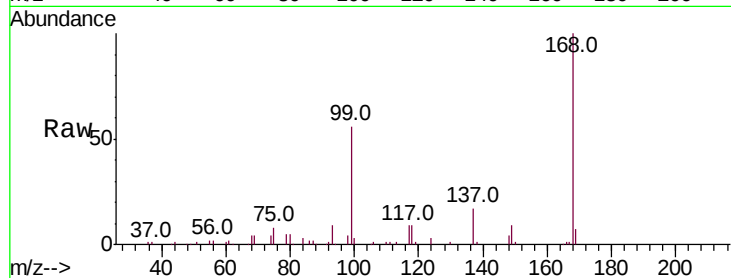
Tot Ion: 56 Resp: 2898

Ion Ratio Lower Upper

56 100

69 171.4 27.5 41.3#

84 147.6 73.9 110.9#



#33

1,2-Dichloroethane-d4

Concen: 55.240 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064981.D

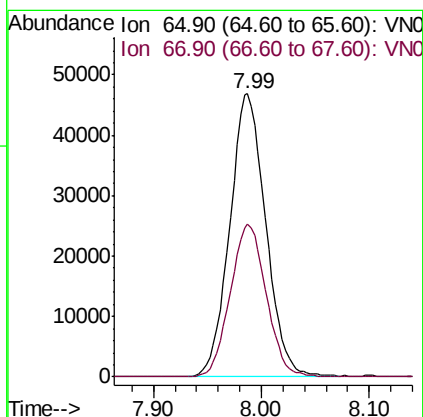
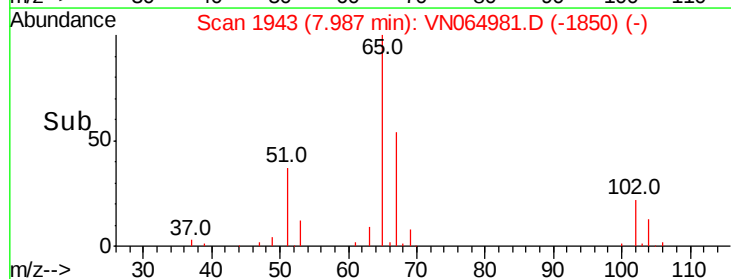
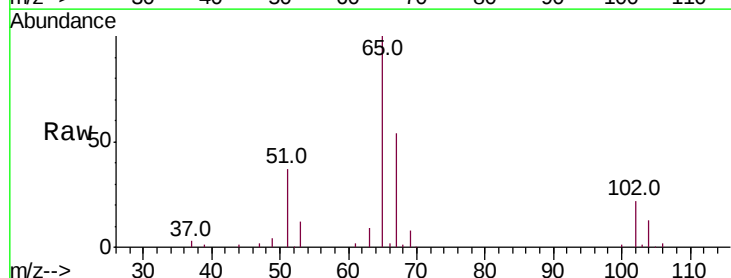
Acq: 8 Dec 2020 19:50

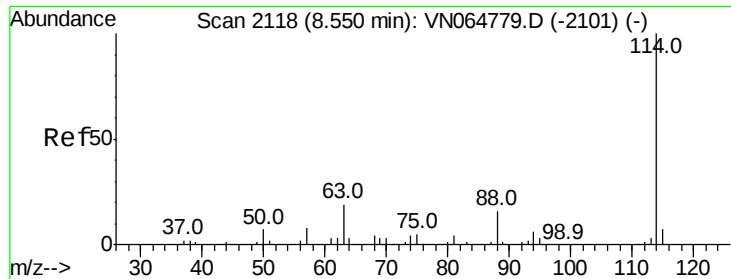
Tgt Ion: 65 Resp: 108919

Ion Ratio Lower Upper

65 100

67 53.8 0.0 108.2

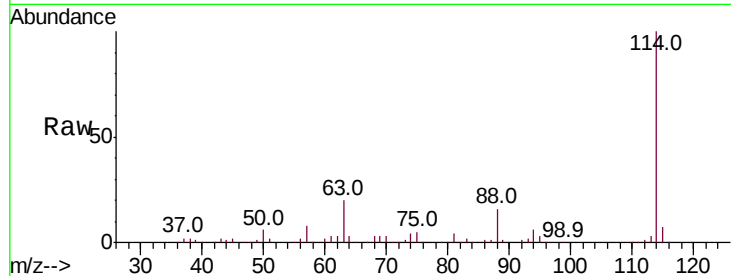




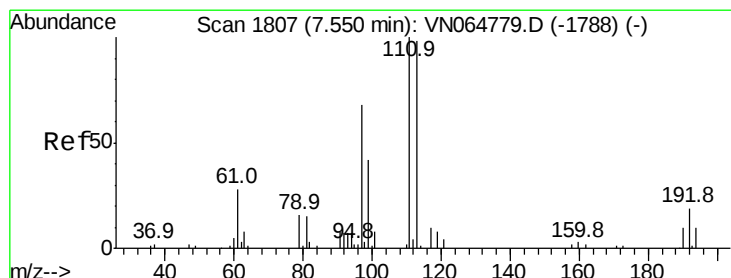
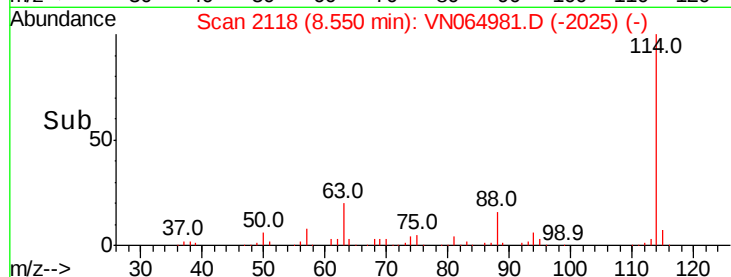
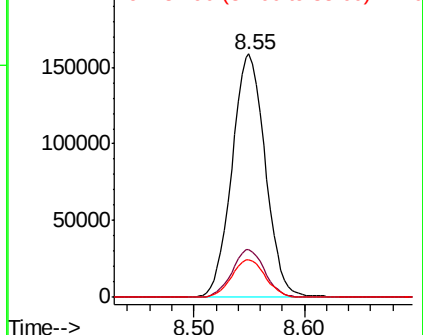
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064981.D
 Acq: 8 Dec 2020 19:50

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#18

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	38.6
88	15.6	0.0	32.6

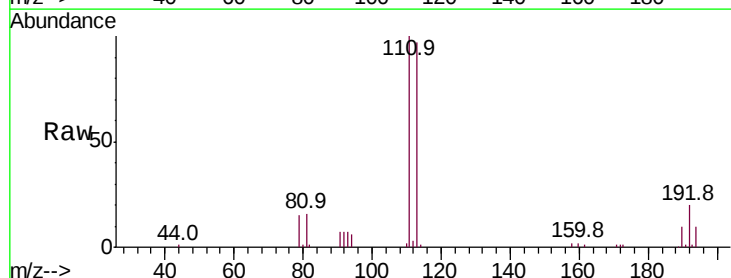


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

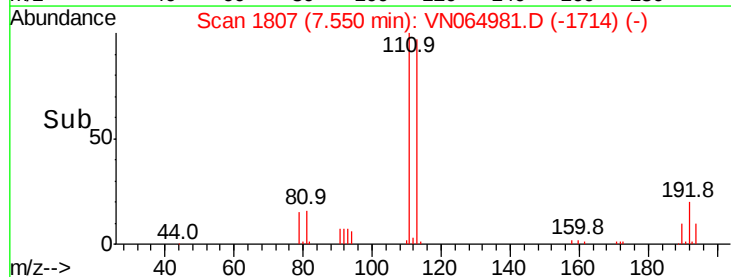
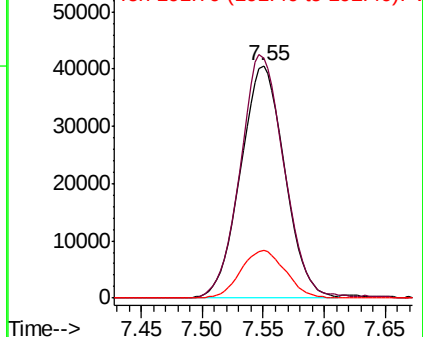


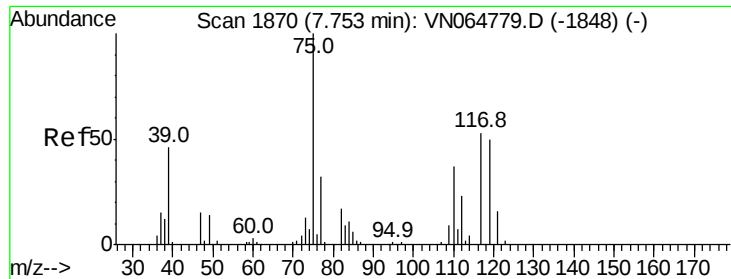
#35
 Dibromofluoromethane
 Concen: 51.042 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064981.D
 Acq: 8 Dec 2020 19:50

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.2	81.6	122.4
192	20.7	16.2	24.2



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: 3.858 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN064981.D

Acq: 8 Dec 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#18

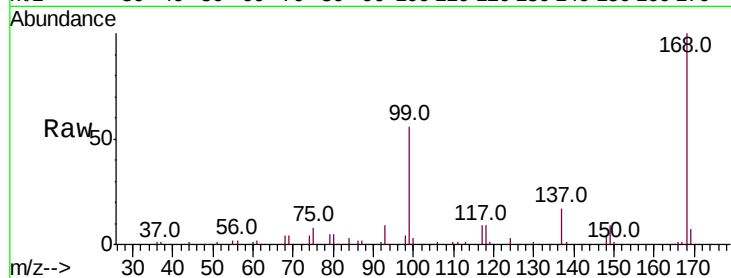
Tot Ion: 75 Resp: 11893

Ion Ratio Lower Upper

75 100

110 4.3 17.8 53.3#

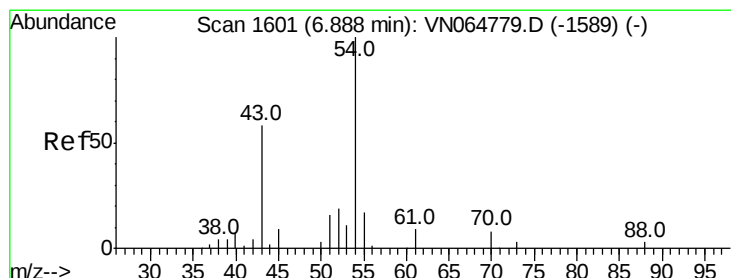
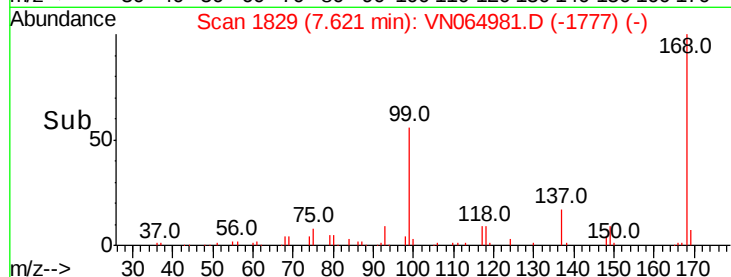
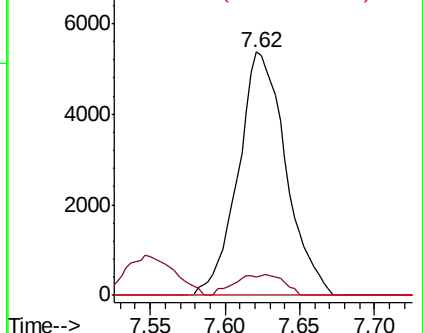
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.925 ug/l

RT: 6.80 min Scan# 1573

Delta R.T. -0.09 min

Lab File: VN064981.D

Acq: 8 Dec 2020 19:50

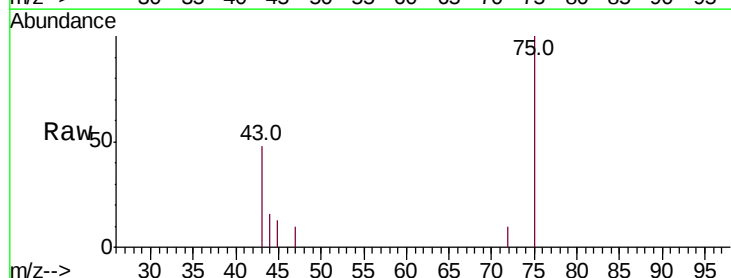
Tgt Ion: 43 Resp: 2747

Ion Ratio Lower Upper

43 100

61 0.0 12.8 19.2#

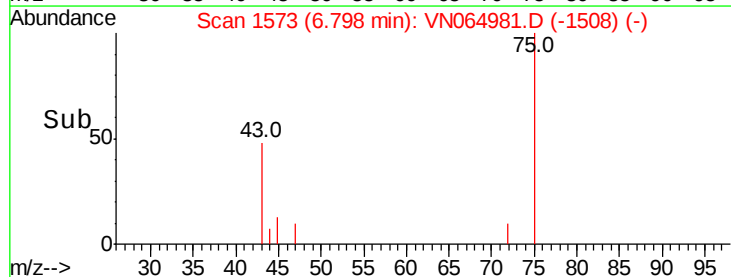
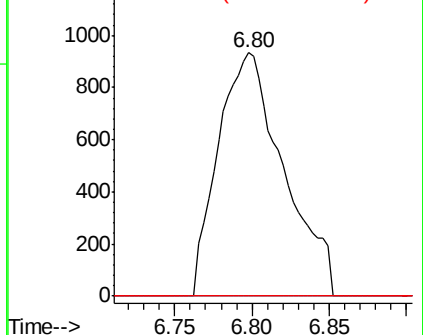
70 0.0 8.8 13.2#

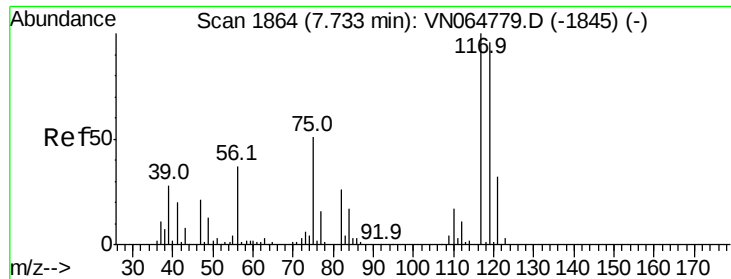


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 4.825 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.11 min

Lab File: VN064981.D

Acq: 8 Dec 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#18

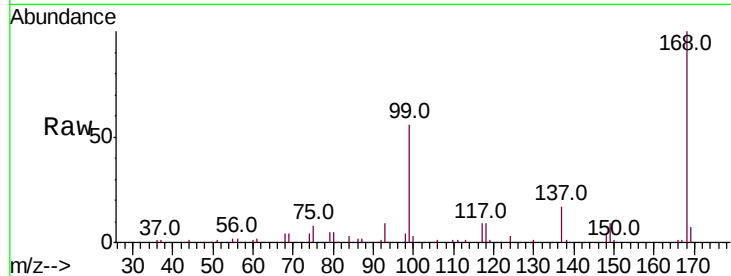
Tot Ion:117 Resp: 15475

Ion Ratio Lower Upper

117 100

119 7.4 76.7 115.1#

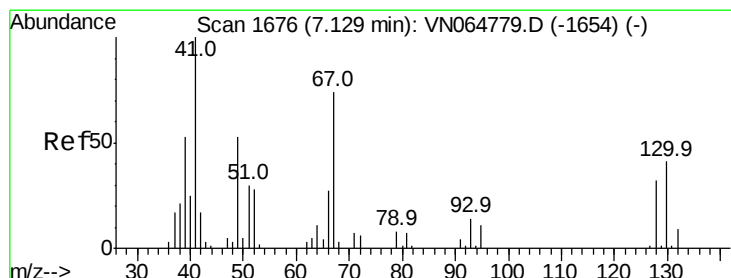
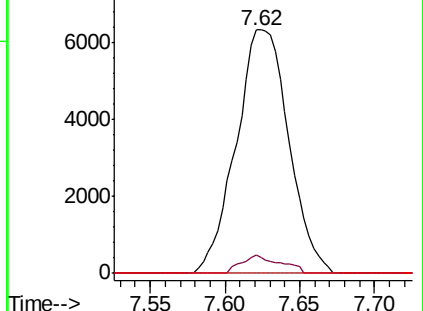
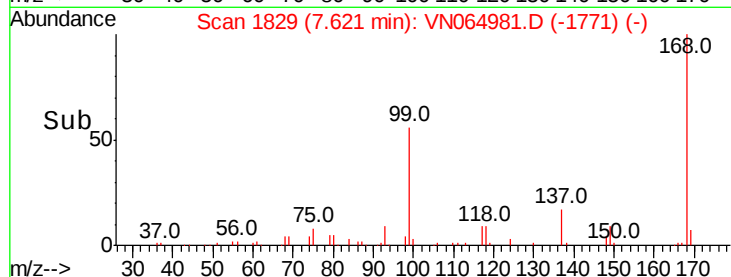
121 0.0 25.4 38.2#



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



#41

Methacrylonitrile

Concen: 0.501 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.05 min

Lab File: VN064981.D

Acq: 8 Dec 2020 19:50

Tgt Ion: 41 Resp: 687

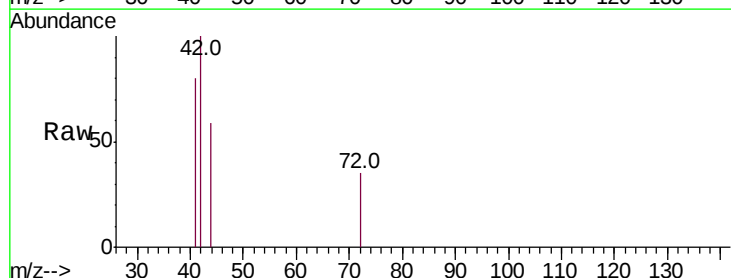
Ion Ratio Lower Upper

41 100

39 4.2 51.0 76.6#

67 0.0 79.8 119.8#

52 0.0 31.5 47.3#

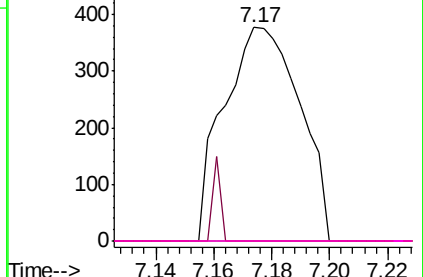
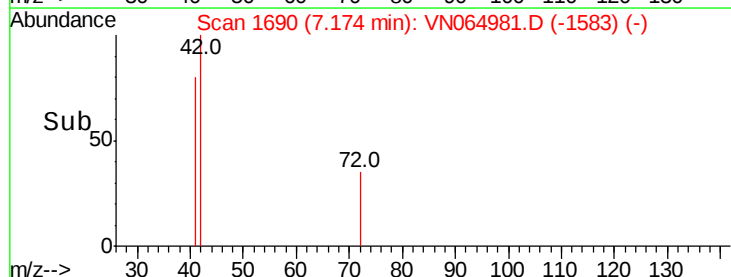


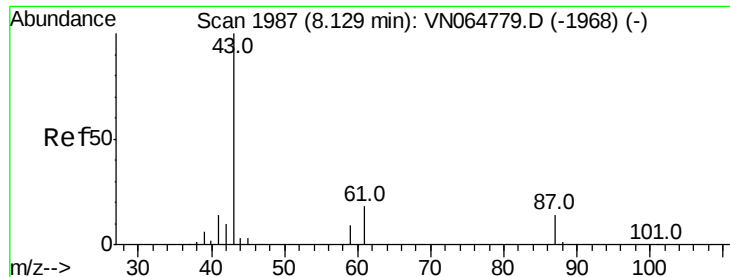
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 3.766 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064981.D

Acq: 8 Dec 2020 19:50

Instrument :

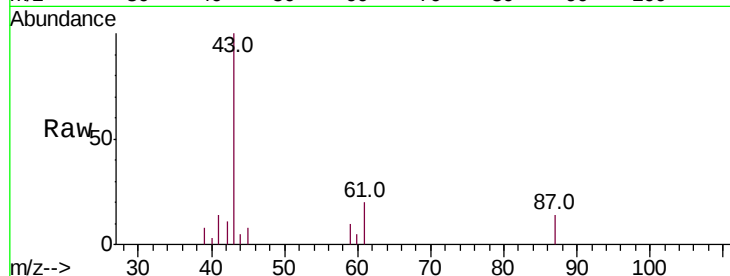
MSVOA_N

ClientSampleId :

PB133456ZHE#18

Tot Ion: 43 Resp: 17995

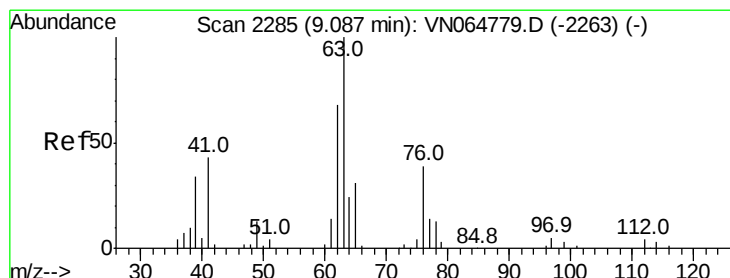
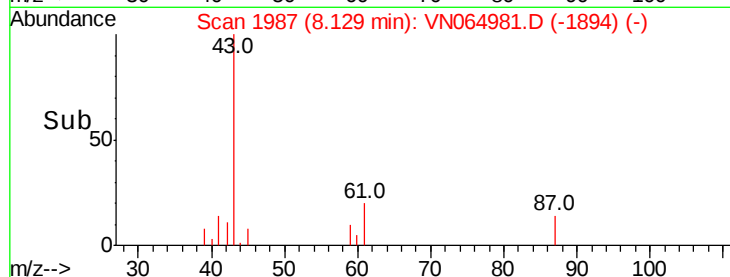
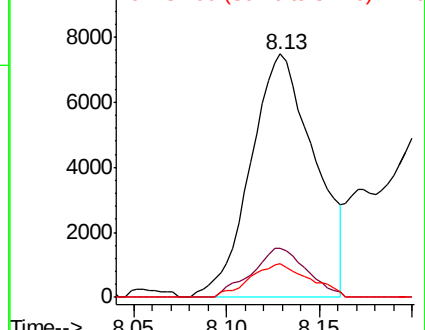
Ion	Ratio	Lower	Upper
43	100		
61	17.2	17.2	25.8
87	12.7	11.4	17.0



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: 0.455 ug/l

RT: 9.23 min Scan# 2330

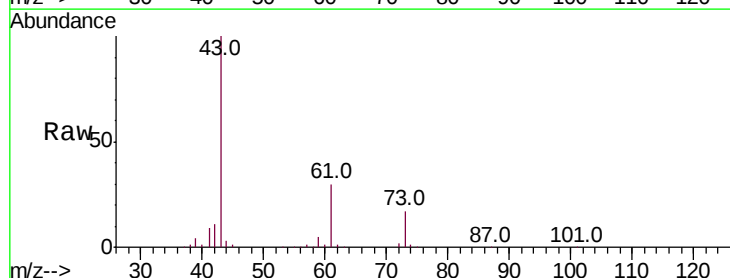
Delta R.T. 0.14 min

Lab File: VN064981.D

Acq: 8 Dec 2020 19:50

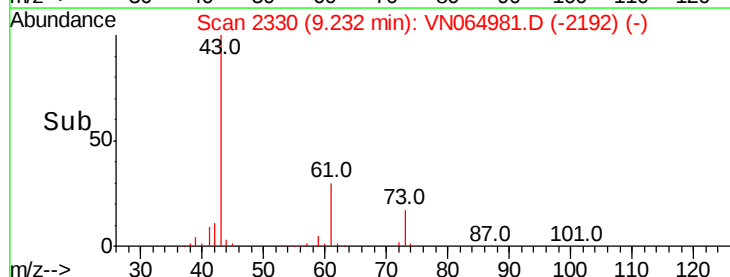
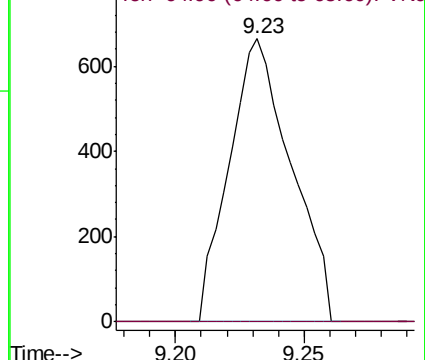
Tgt Ion: 63 Resp: 1113

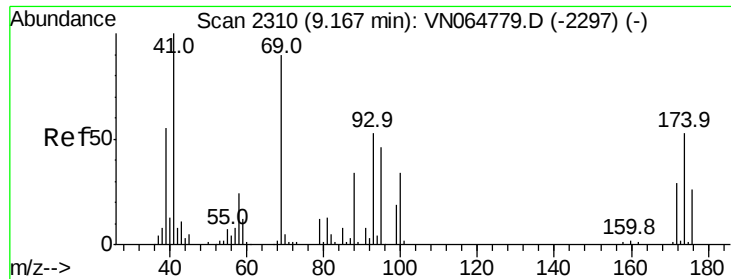
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.0	37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

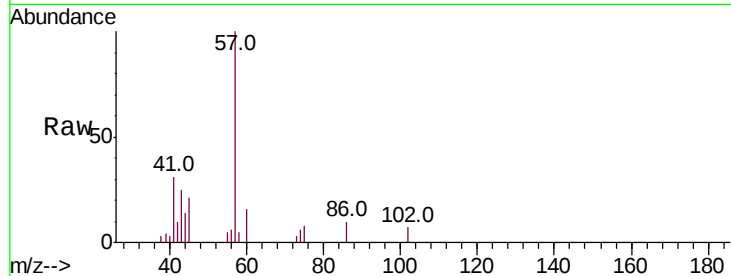




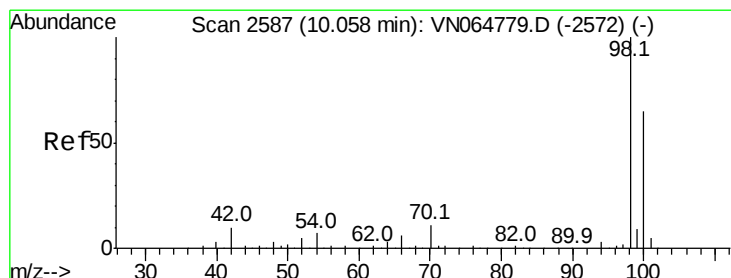
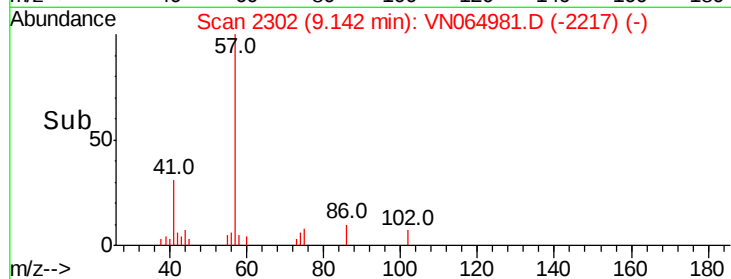
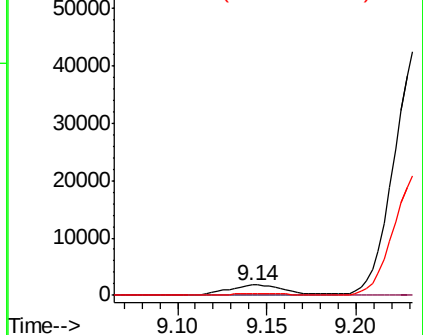
#48
Methvl methacrylate
Concen: 1.816 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN064981.D
Acq: 8 Dec 2020 19:50

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#18

Tot Ion: 41 Resp: 4146
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#

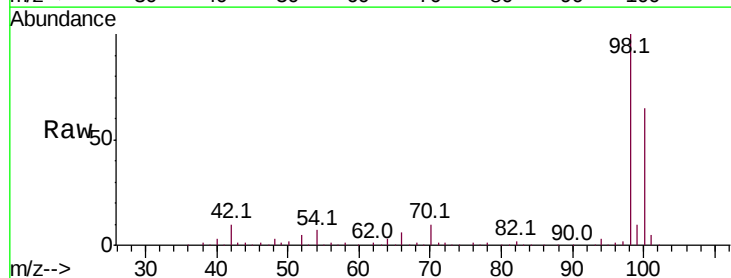


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

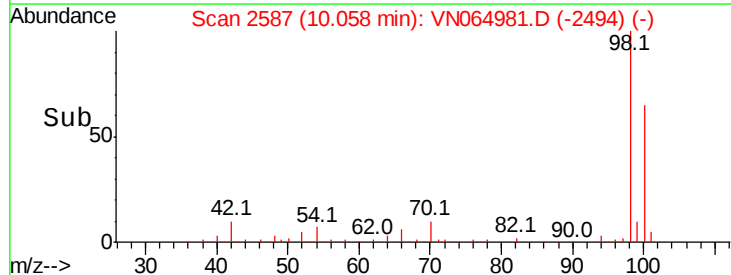
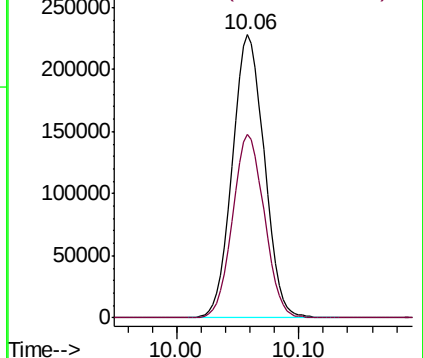


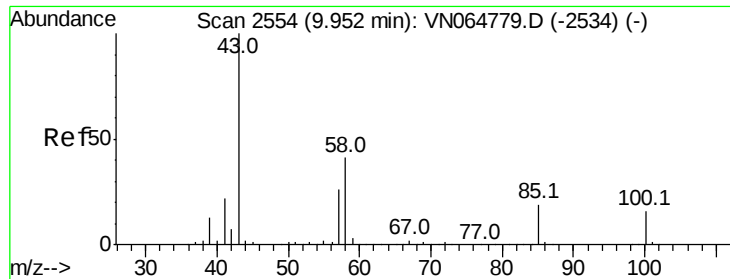
#50
Toluene-d8
Concen: 51.125 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064981.D
Acq: 8 Dec 2020 19:50

Tgt Ion: 98 Resp: 415661
Ion Ratio Lower Upper
98 100
100 64.5 51.7 77.5



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

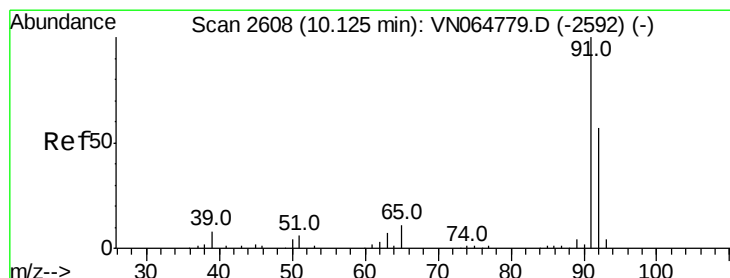
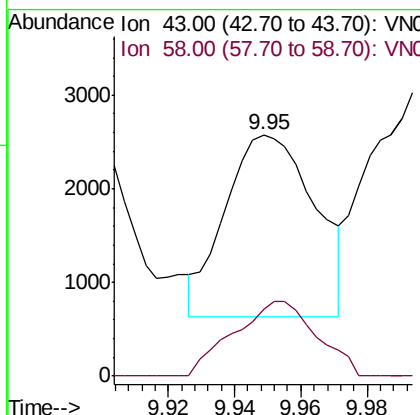
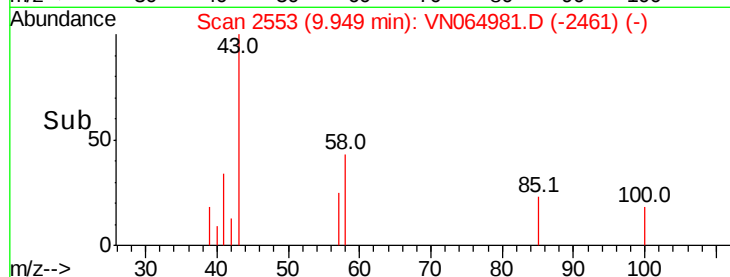
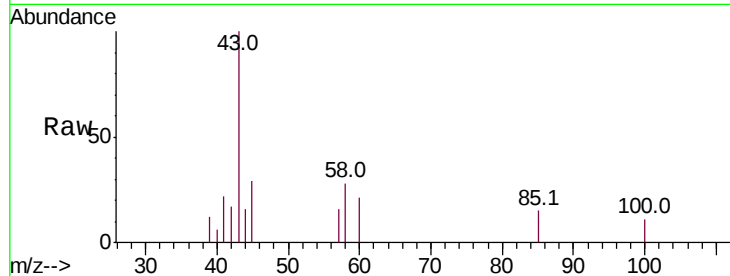




#51
4-Methyl-2-Pentanone
Concen: 1.267 ug/l
RT: 9.95 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN064981.D
Acq: 8 Dec 2020 19:50

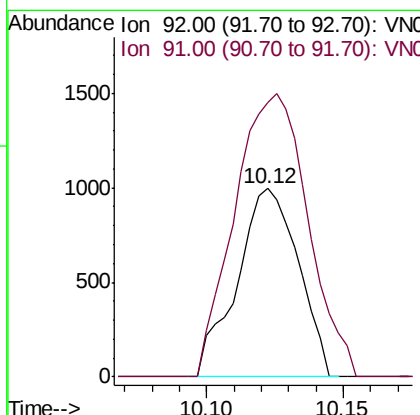
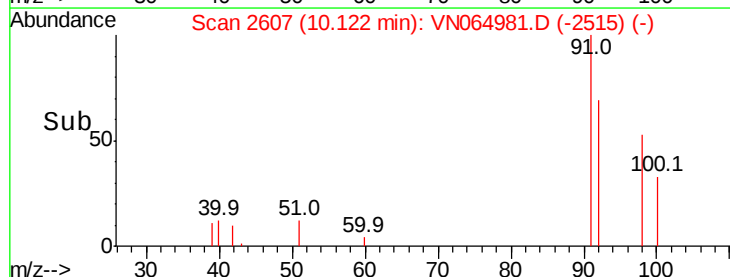
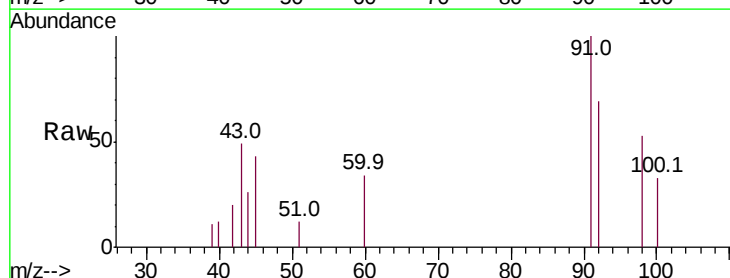
Instrument :
MSVOA_N
ClientSampleID :
PB133456ZHE#18

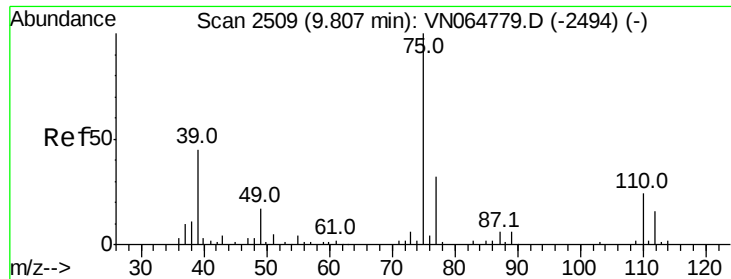
Tot Ion: 43 Resp: 3633
Ion Ratio Lower Upper
43 100
58 38.0 32.4 48.6



#52
Toluene
Concen: 0.267 ug/l
RT: 10.12 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN064981.D
Acq: 8 Dec 2020 19:50

Tgt Ion: 92 Resp: 1552
Ion Ratio Lower Upper
92 100
91 180.0 139.1 208.7





#54

cis-1,3-Dichloropropene

Concen: 7.497 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064981.D

Acq: 8 Dec 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#18

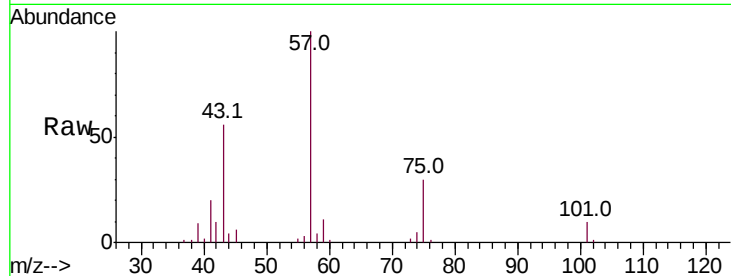
Tot Ion: 75 Resp: 29431

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

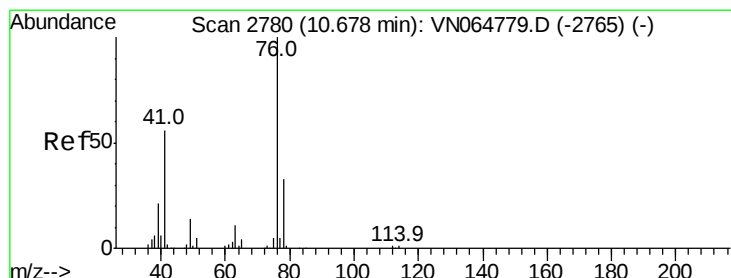
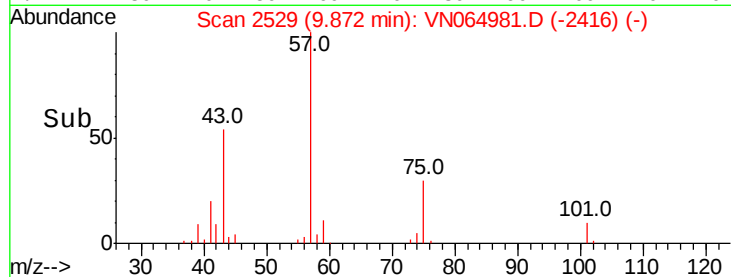
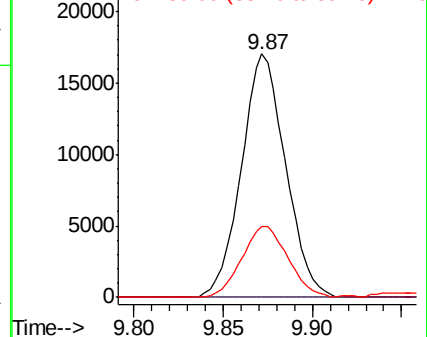
39 29.1 35.6 53.4#



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: 4.591 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064981.D

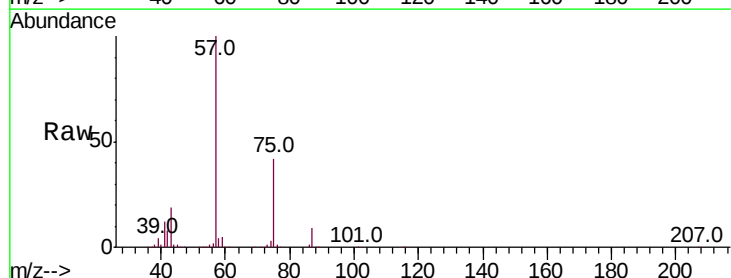
Acq: 8 Dec 2020 19:50

Tgt Ion: 76 Resp: 18113

Ion Ratio Lower Upper

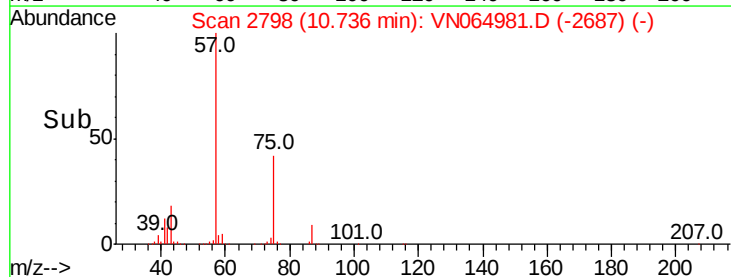
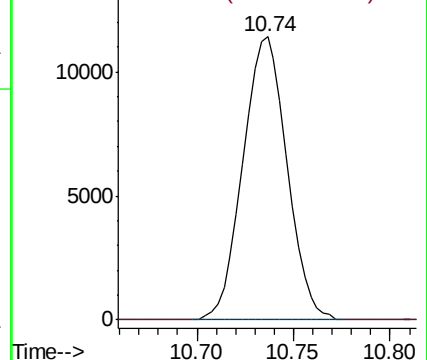
76 100

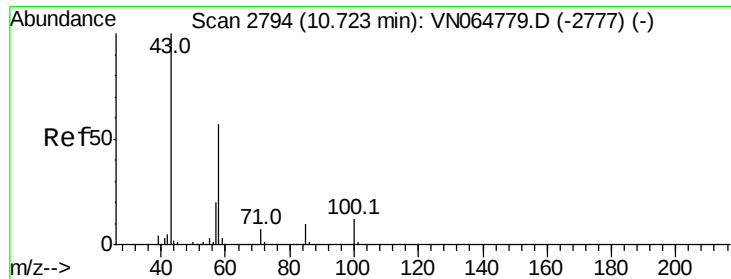
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

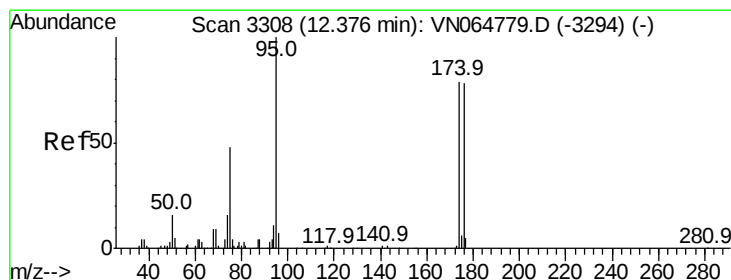
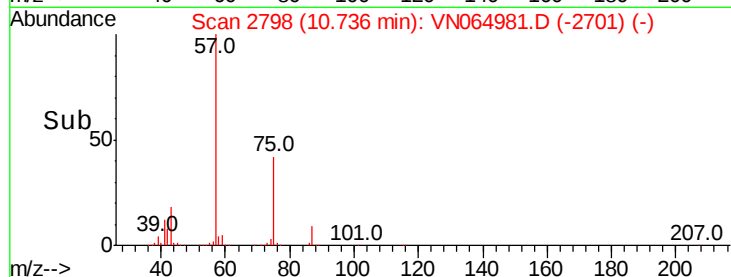
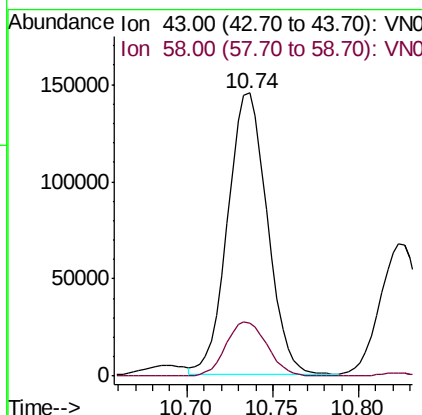
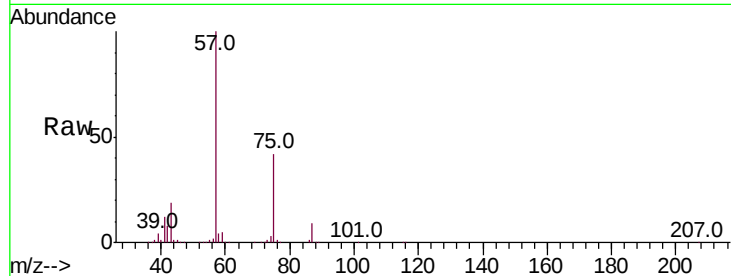




#59
2-Hexanone
Concen: 112.750 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN064981.D
Acq: 8 Dec 2020 19:50

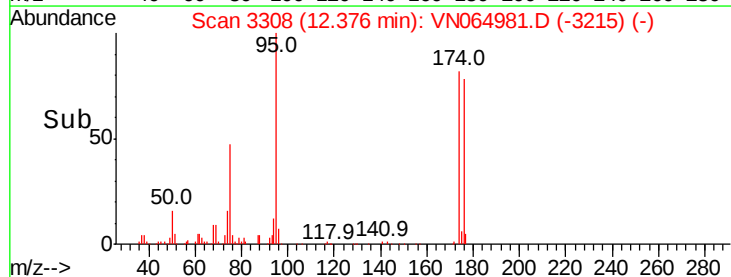
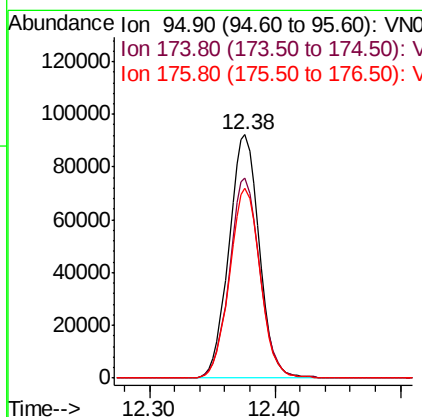
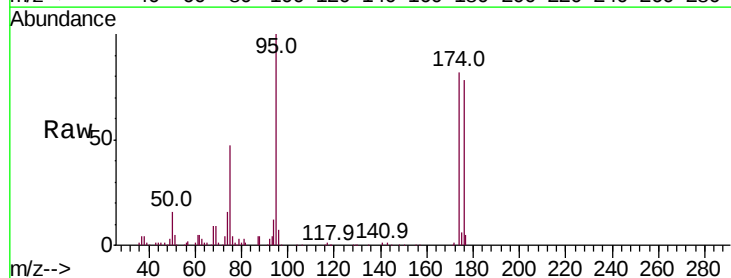
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#18

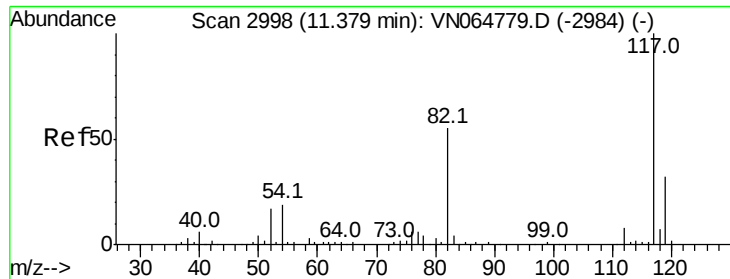
Tot Ion: 43 Resp: 232745
Ion Ratio Lower Upper
43 100
58 20.1 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 53.189 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064981.D
Acq: 8 Dec 2020 19:50

Tgt Ion: 95 Resp: 154763
Ion Ratio Lower Upper
95 100
174 82.7 0.0 160.4
176 79.0 0.0 158.4

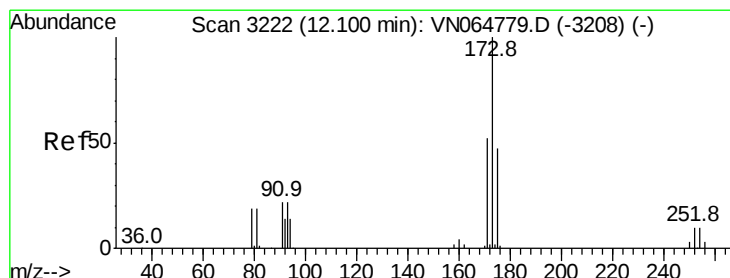
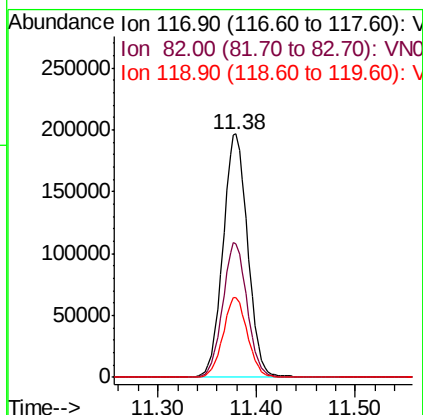
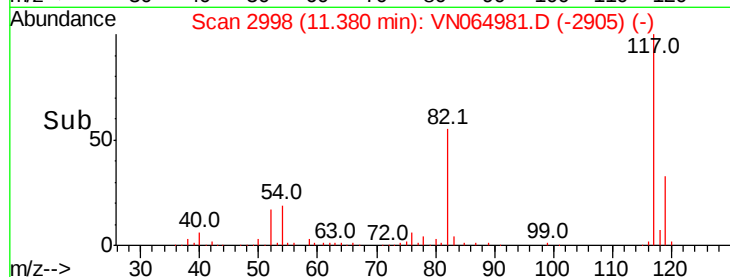
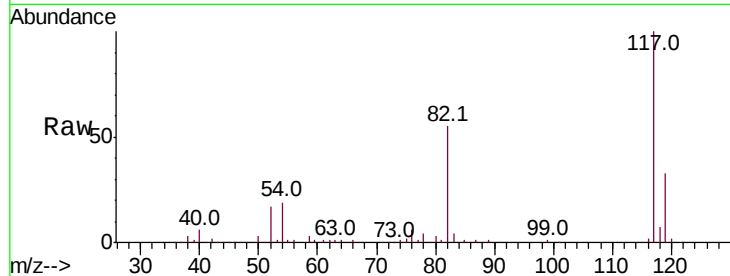




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064981.D
Acq: 8 Dec 2020 19:50

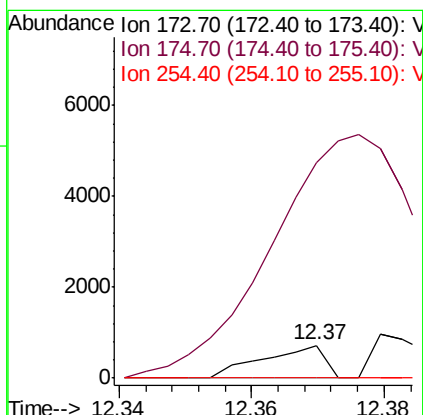
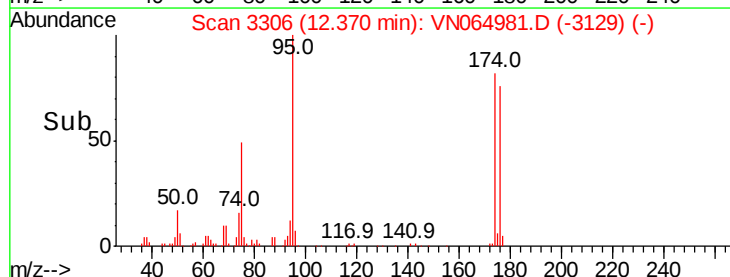
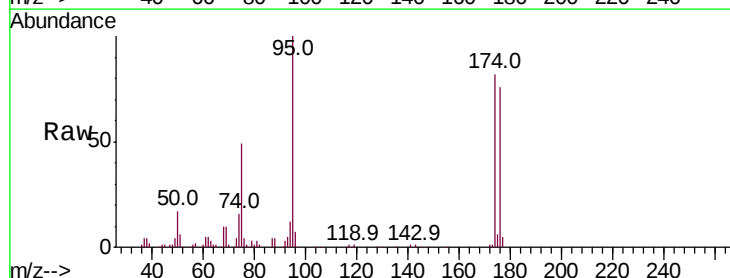
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#18

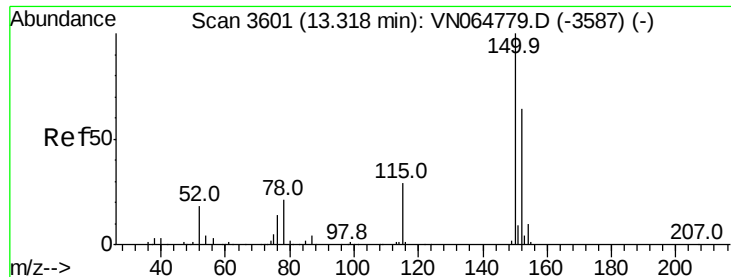
Tot Ion:117 Resp: 345401
Ion Ratio Lower Upper
117 100
82 55.0 44.2 66.2
119 32.9 25.8 38.6



#71
Bromoform
Concen: 0.214 ug/l
RT: 12.37 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN064981.D
Acq: 8 Dec 2020 19:50

Tgt Ion:173 Resp: 467
Ion Ratio Lower Upper
173 100
175 0.0 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064981.D

Acq: 8 Dec 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#18

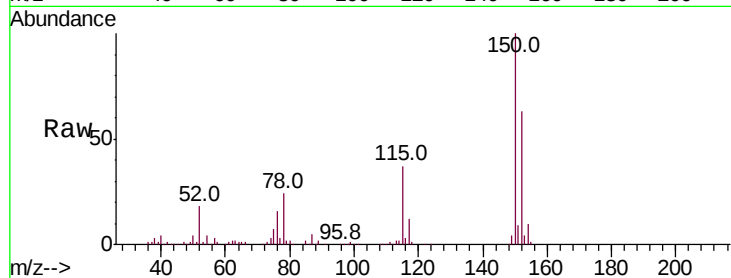
Tot Ion:152 Resp: 146657

Ion Ratio Lower Upper

152 100

115 57.9 29.7 89.1

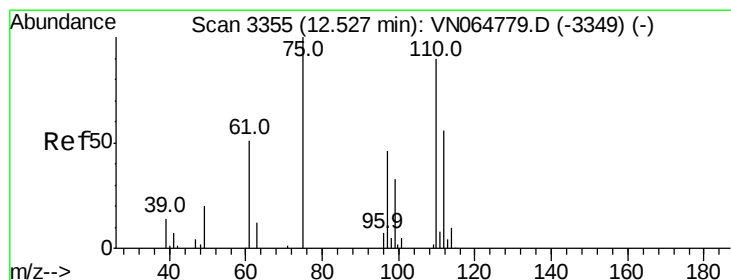
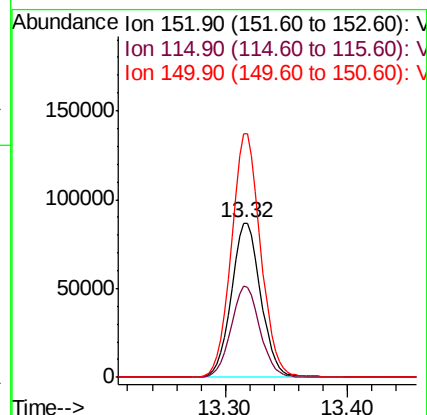
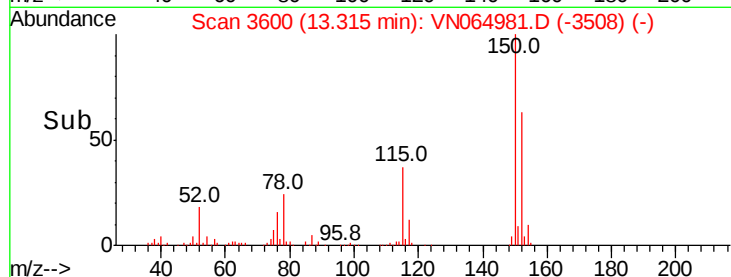
150 156.7 0.0 350.6



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



#76

1,2,3-Trichloropropane

Concen: 23.408 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064981.D

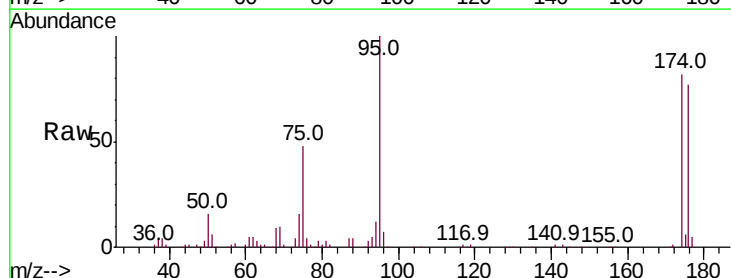
Acq: 8 Dec 2020 19:50

Tgt Ion: 75 Resp: 73931

Ion Ratio Lower Upper

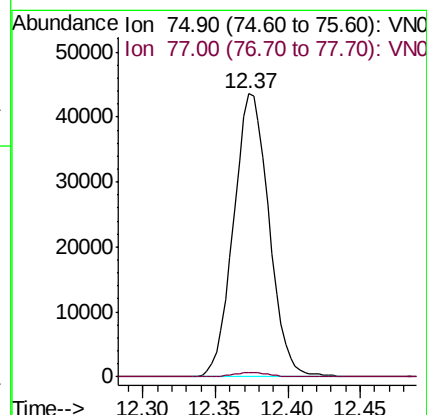
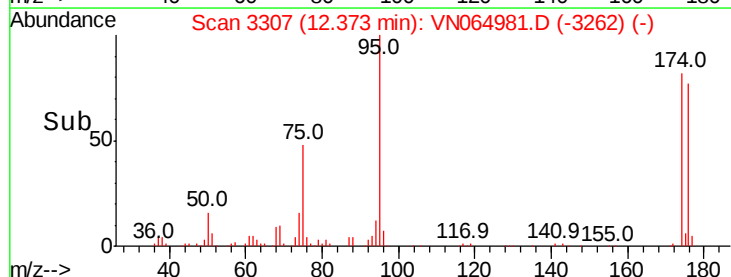
75 100

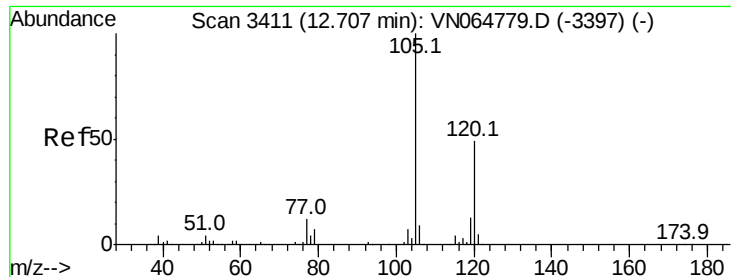
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.238 ug/l

RT: 12.70 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN064981.D

Acq: 8 Dec 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

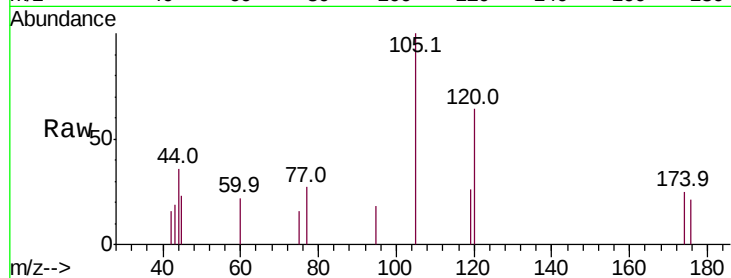
PB133456ZHE#18

Tot Ion:105 Resp: 2022

Ion Ratio Lower Upper

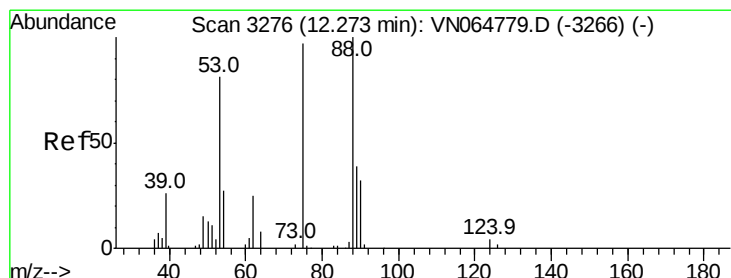
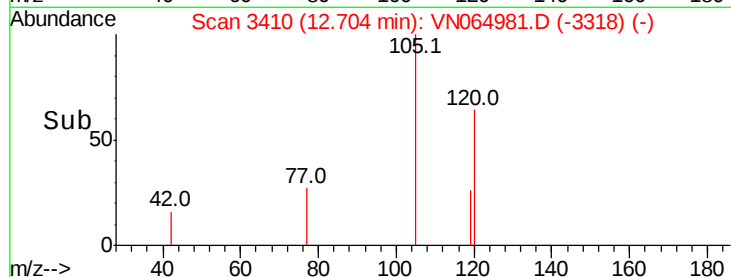
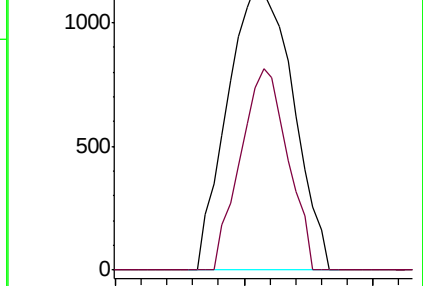
105 100

120 51.4 24.6 73.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 64.155 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064981.D

Acq: 8 Dec 2020 19:50

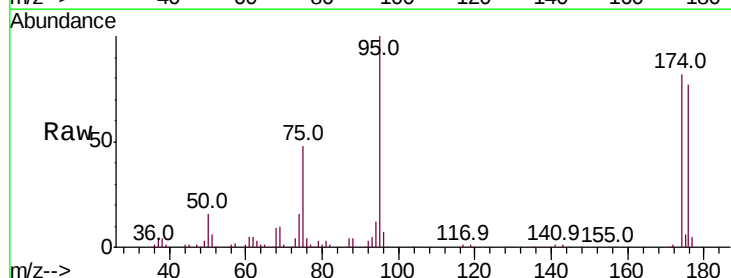
Tgt Ion: 75 Resp: 73931

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

