

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081920\
 Data File : VN063016.D
 Acq On : 19 Aug 2020 16:21
 Operator : JC/MD
 Sample : PB131049TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131033TB

Quant Time: Aug 20 01:25:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	147155	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	242302	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	248100	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	90674	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	95583	54.80	ug/l	0.00
Spiked Amount			Recovery	=	109.60%	
35) Dibromofluoromethane	7.55	113	82261	52.10	ug/l	0.00
Spiked Amount			Recovery	=	104.20%	
50) Toluene-d8	10.06	98	308775	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	
62) 4-Bromofluorobenzene	12.38	95	103204	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	

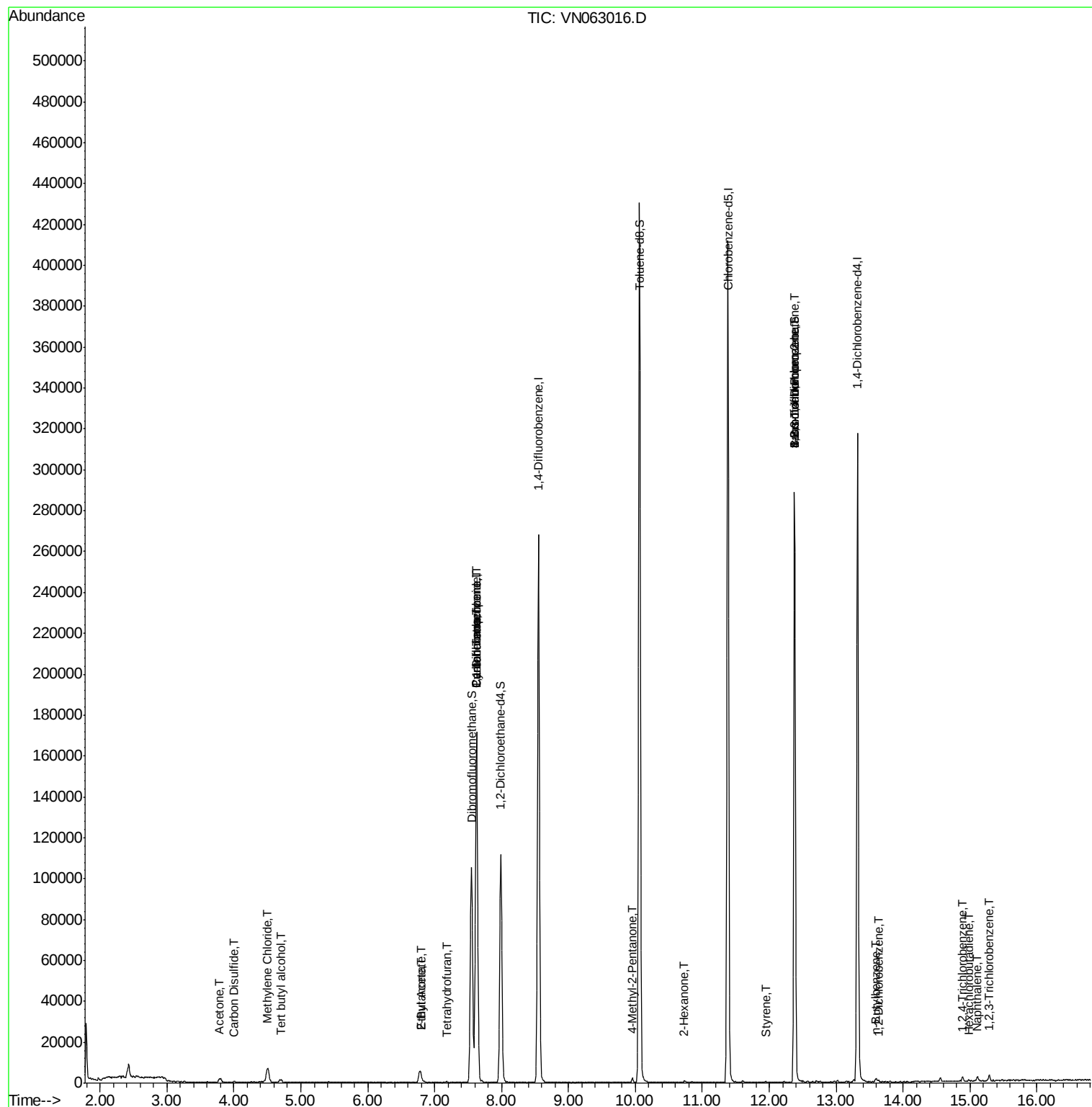
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	1290	5.222	ug/l #	74
16) Acetone	3.78	43	3757	3.033	ug/l	92
17) Carbon Disulfide	4.01	76	852	0.260	ug/l #	76
20) Methylene Chloride	4.51	84	5454	2.272	ug/l	92
25) 2-Butanone	6.81	43	1421	1.535	ug/l #	48
29) Tetrahydrofuran	7.18	42	391	0.654	ug/l #	40
31) Cyclohexane	7.62	56	2799	1.089	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	10806	5.061	ug/l #	45
37) Ethyl Acetate	6.81	43	1421	0.710	ug/l #	75
38) Carbon Tetrachloride	7.63	117	12998	6.029	ug/l #	18
51) 4-Methyl-2-Pentanone	9.96	43	1880	0.897	ug/l #	84
59) 2-Hexanone	10.73	43	855	0.585	ug/l #	45
70) Styrene	11.94	104	187	1.954	ug/l #	37
71) Bromoform	12.38	173	880	0.570	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.49	83	64	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.38	75	48851	27.717	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	48851	76.123	ug/l #	15
89) n-Butylbenzene	13.60	91	1670	3.090	ug/l	92
91) 1,2-Dichlorobenzene	13.64	146	594	0.210	ug/l #	61
93) 1,2,4-Trichlorobenzene	14.89	180	1174	5.224	ug/l #	84
94) Hexachlorobutadiene	14.98	225	264	0.252	ug/l #	34
95) Naphthalene	15.11	128	3255	6.440	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.29	180	1505	4.865	ug/l	95

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN063016.D

Acq: 19 Aug 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

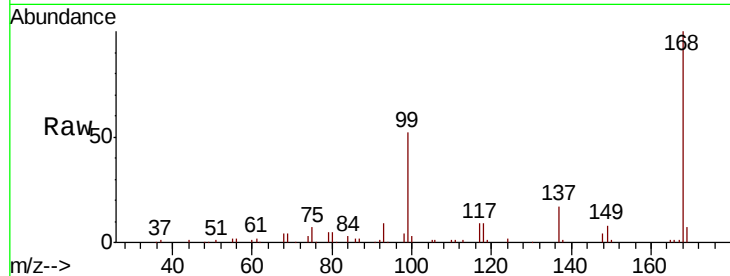
PB131033TB

Tot Ion:168 Resp: 147155

Ion Ratio Lower Upper

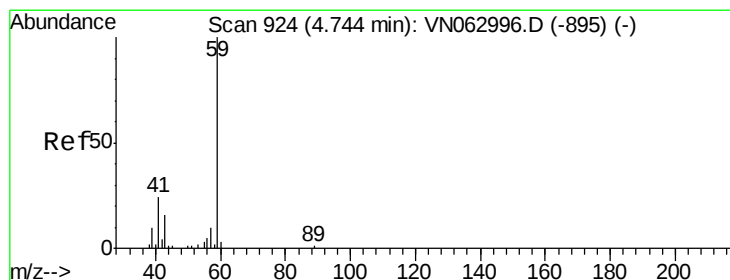
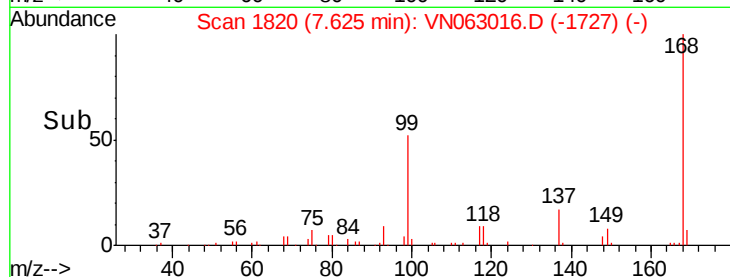
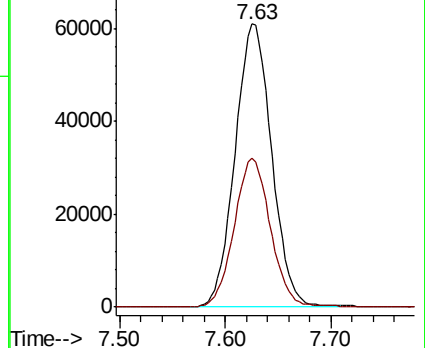
168 100

99 52.5 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 5.222 ug/l

RT: 4.71 min Scan# 912

Delta R.T. -0.04 min

Lab File: VN063016.D

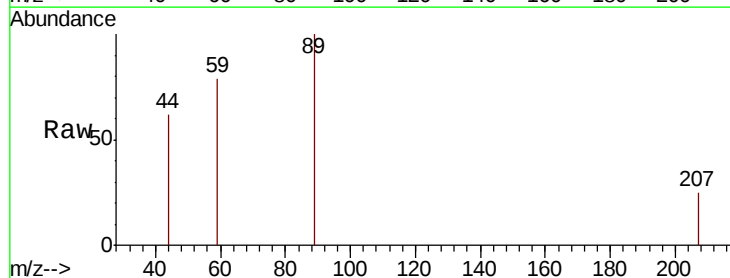
Acq: 19 Aug 2020 16:21

Tgt Ion: 59 Resp: 1290

Ion Ratio Lower Upper

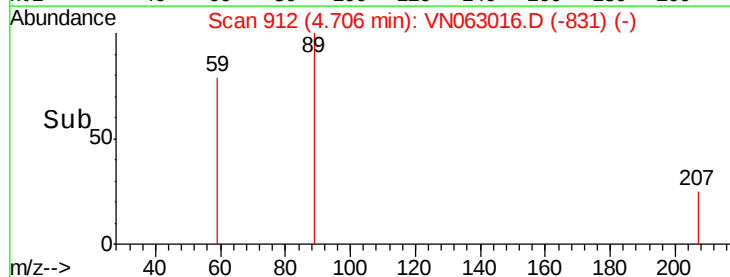
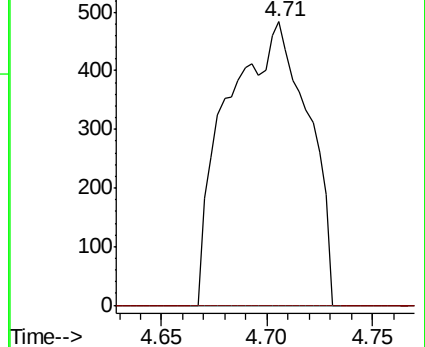
59 100

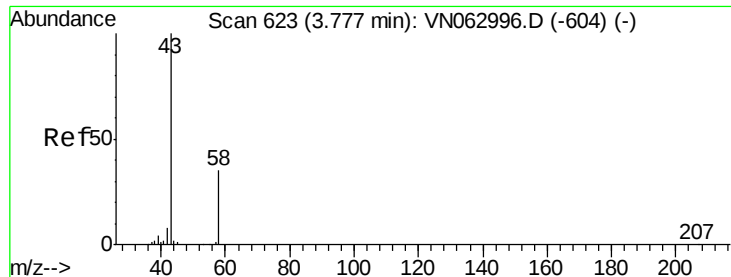
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 3.033 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN063016.D

Acq: 19 Aug 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

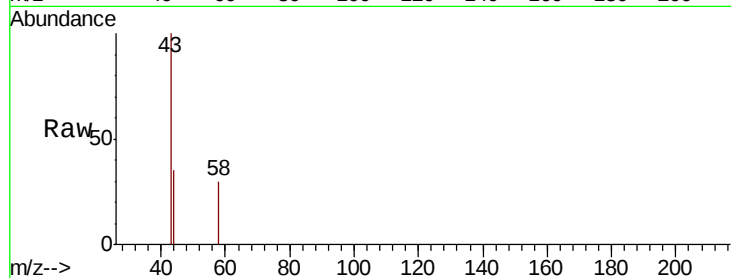
PB131033TB

Tot Ion: 43 Resp: 3757

Ion Ratio Lower Upper

43 100

58 30.0 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN063016.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN063016.D (-530) (-)

1500

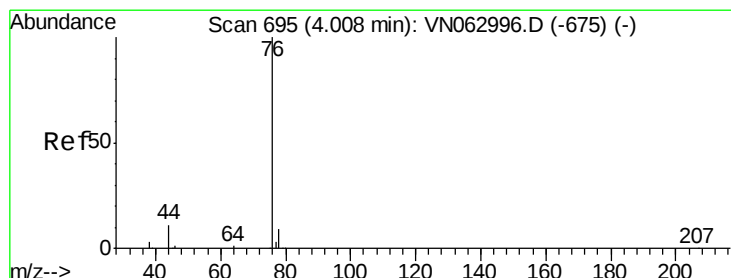
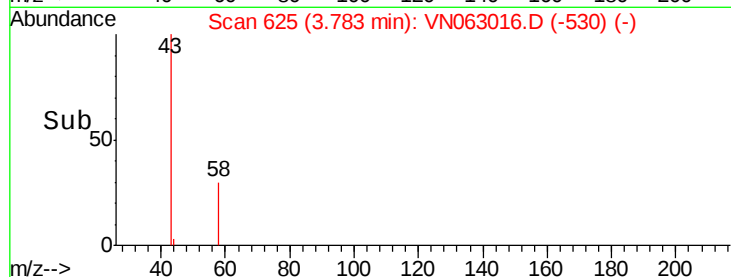
1000

500

0

3.70 3.75 3.80 3.85

Time-->



#17

Carbon Disulfide

Concen: 0.260 ug/l

RT: 4.01 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN063016.D

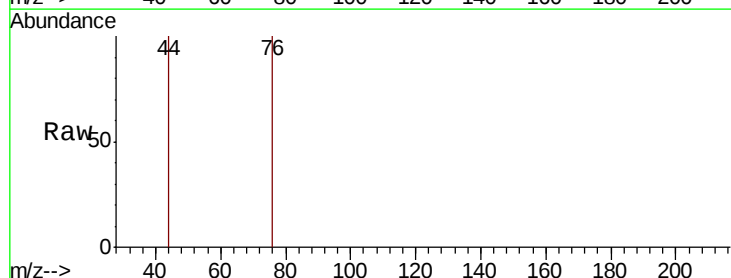
Acq: 19 Aug 2020 16:21

Tgt Ion: 76 Resp: 852

Ion Ratio Lower Upper

76 100

78 0.0 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VN063016.D (-602) (-)

Ion 77.90 (77.60 to 78.60): VN063016.D (-602) (-)

500

400

300

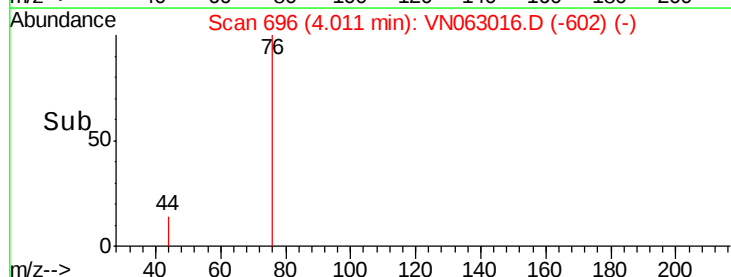
200

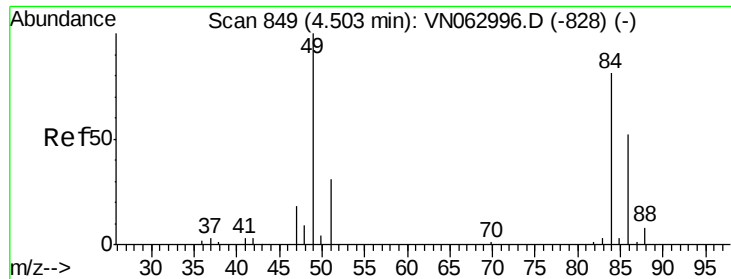
100

0

4.00 4.05

Time-->

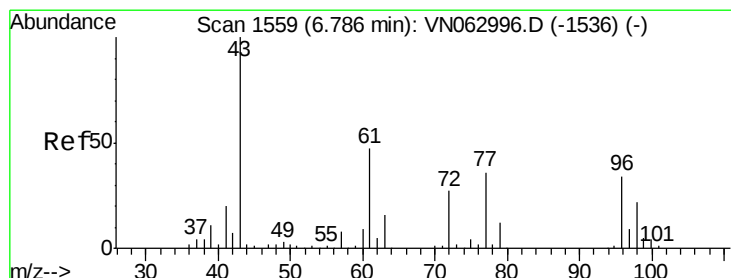
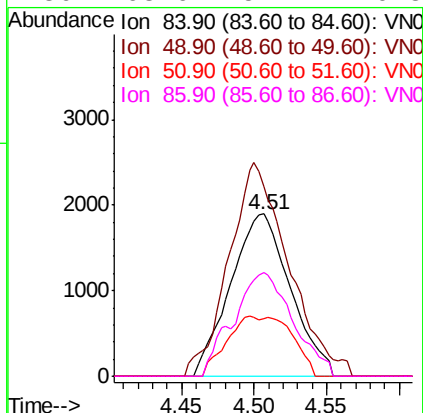
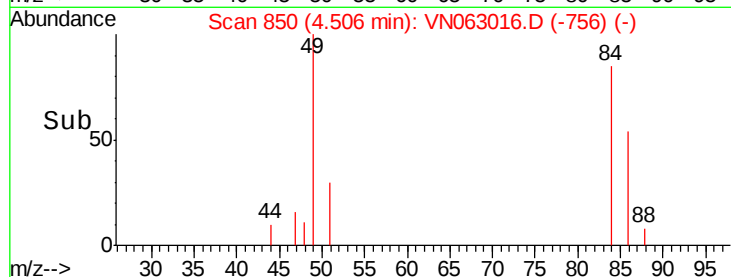
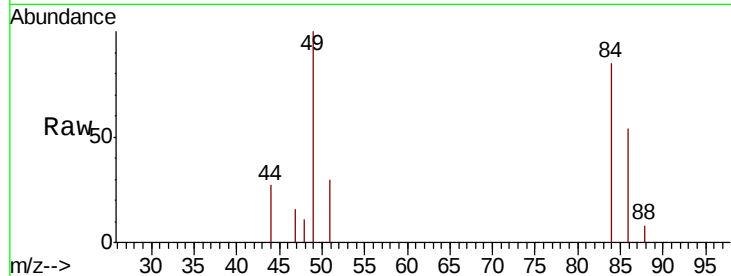




#20
Methvlene Chloride
Concen: 2.272 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN063016.D
Acq: 19 Aug 2020 16:21

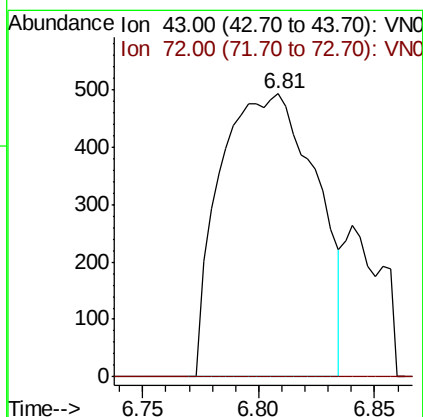
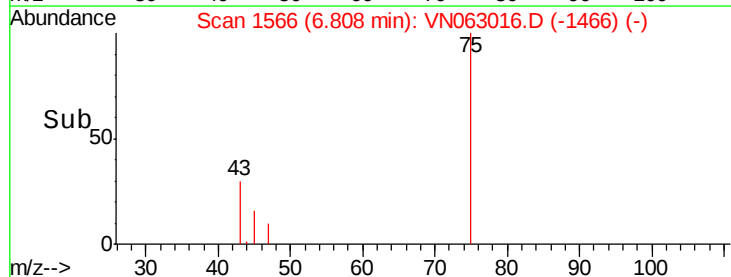
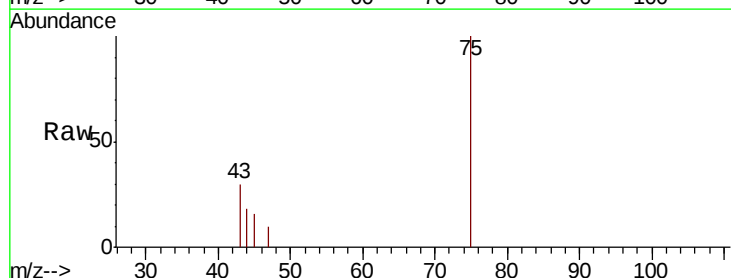
Instrument :
MSVOA_N
ClientSampled :
PB131033TB

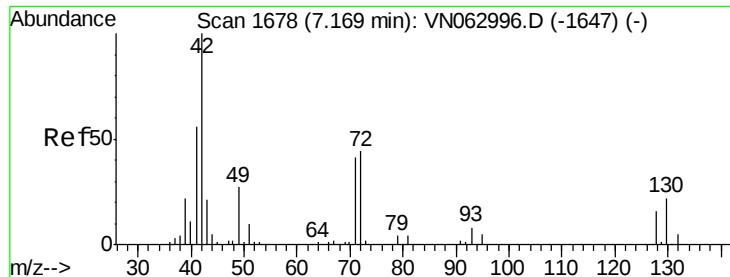
Tot Ion: 84 Resp: 5454
Ion Ratio Lower Upper
84 100
49 109.1 98.7 148.1
51 35.3 30.8 46.2
86 63.6 51.2 76.8



#25
2-Butanone
Concen: 1.535 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.02 min
Lab File: VN063016.D
Acq: 19 Aug 2020 16:21

Tgt Ion: 43 Resp: 1421
Ion Ratio Lower Upper
43 100
72 0.0 21.8 32.6#





#29

Tetrahydrofuran

Concen: 0.654 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN063016.D

Acq: 19 Aug 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

PB131033TB

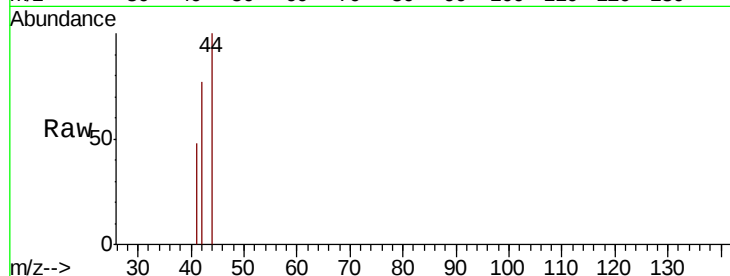
Tot Ion: 42 Resp: 391

Ion Ratio Lower Upper

42 100

72 7.4 34.6 52.0#

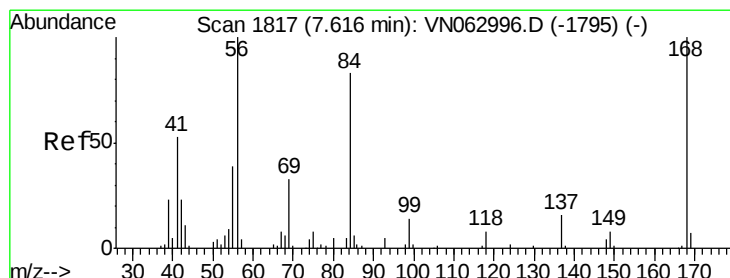
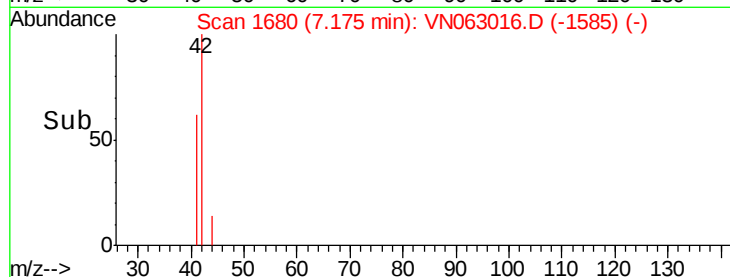
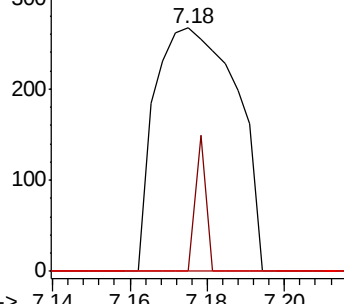
71 0.0 32.3 48.5#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.089 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN063016.D

Acq: 19 Aug 2020 16:21

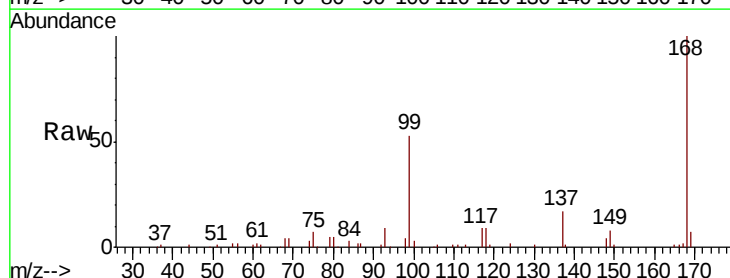
Tgt Ion: 56 Resp: 2799

Ion Ratio Lower Upper

56 100

69 177.2 26.6 40.0#

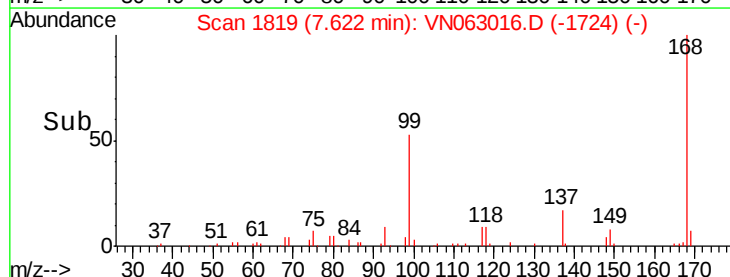
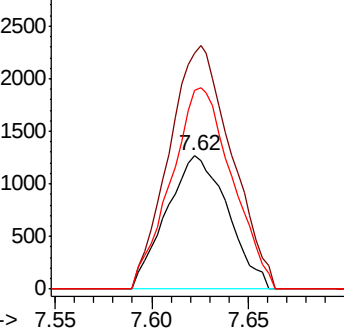
84 148.7 66.4 99.6#

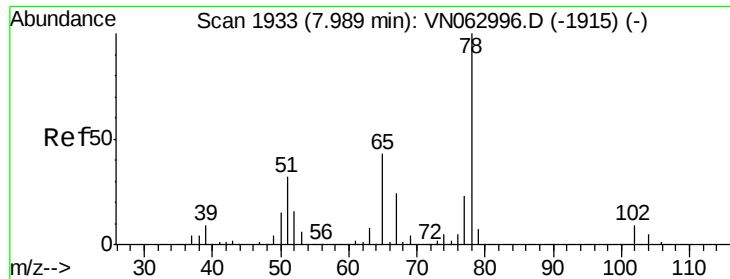


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

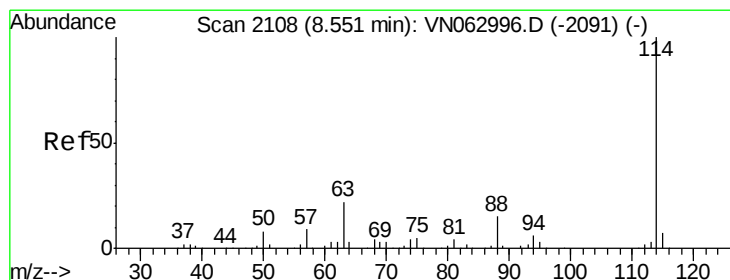
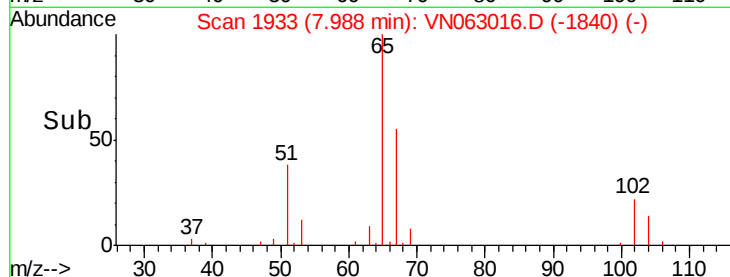
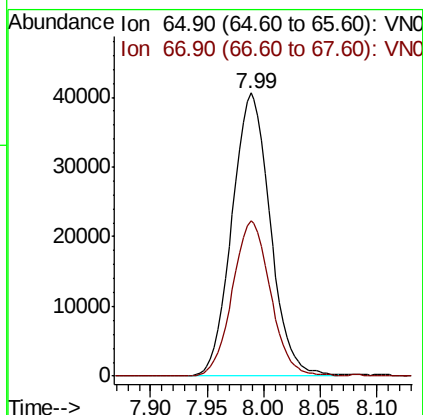
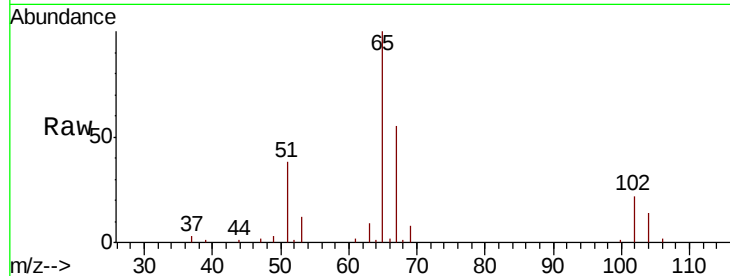




#33
 1,2-Dichloroethane-d4
 Concen: 54.805 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN063016.D
 Acq: 19 Aug 2020 16:21

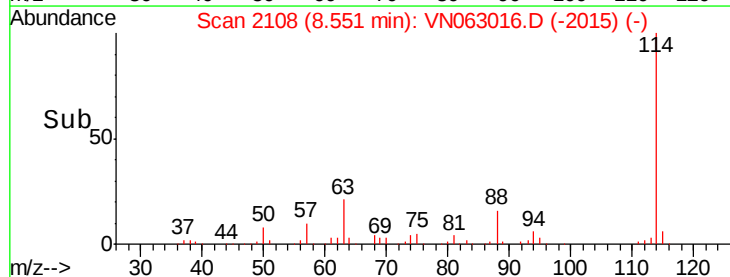
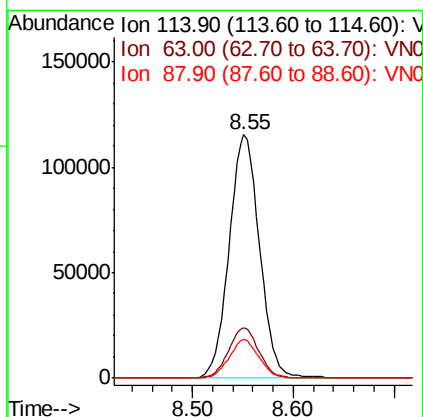
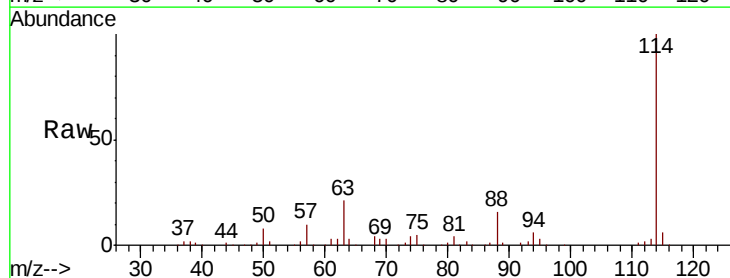
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131033TB

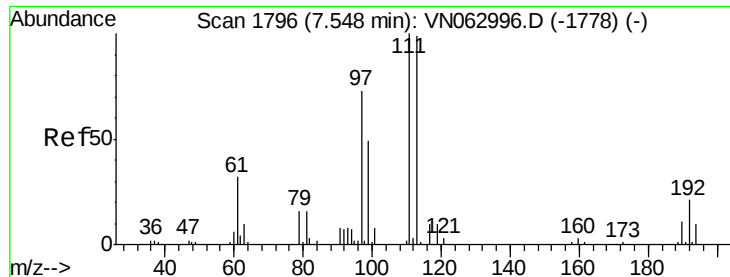
Tot Ion: 65 Resp: 95583
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN063016.D
 Acq: 19 Aug 2020 16:21

Tgt Ion: 114 Resp: 242302
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 43.2
 88 15.9 0.0 30.6

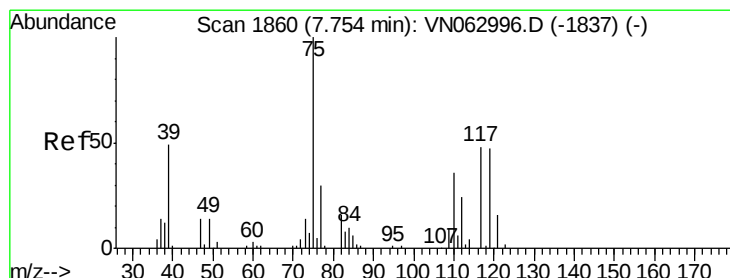
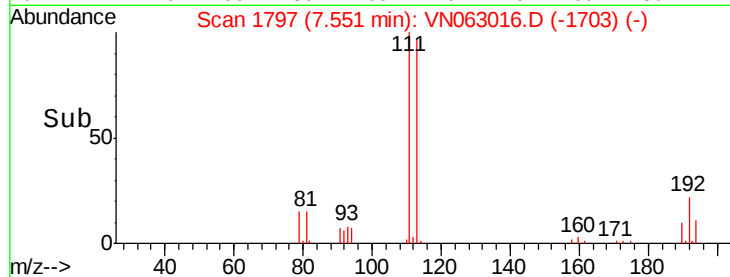
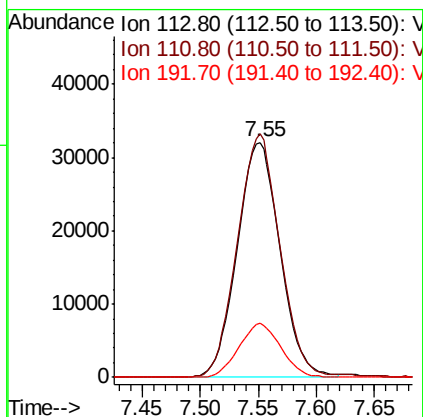
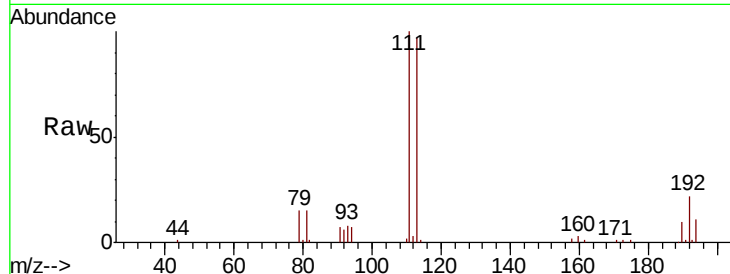




#35
 Dibromofluoromethane
 Concen: 52.102 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN063016.D
 Acq: 19 Aug 2020 16:21

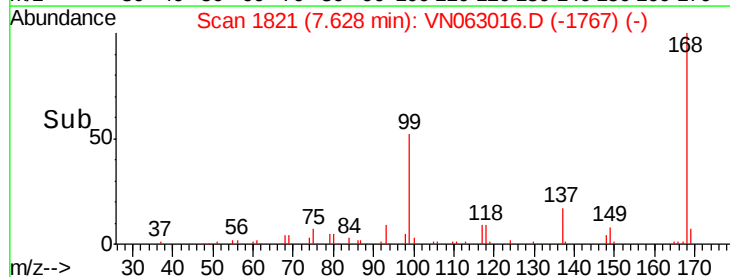
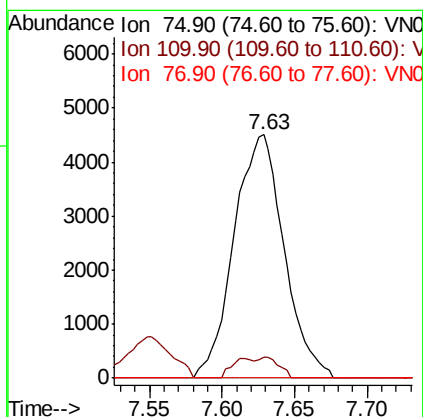
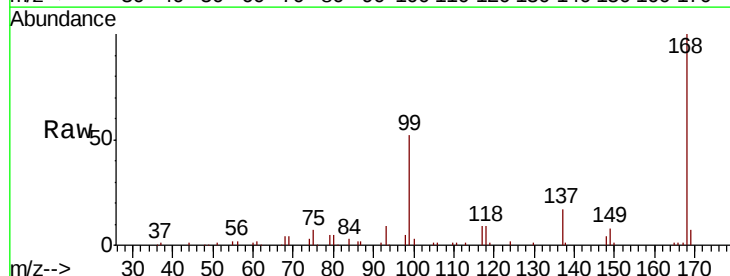
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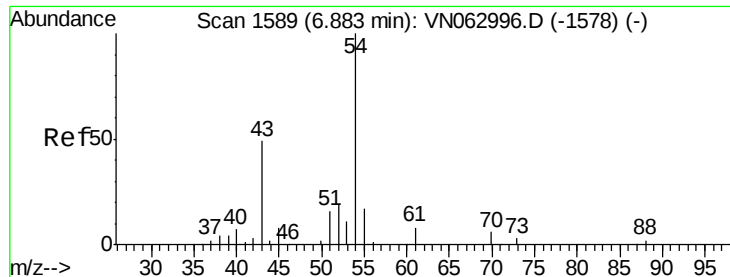
Tot Ion:113 Resp: 82261
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.7 122.5
 192 22.3 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 5.061 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.13 min
 Lab File: VN063016.D
 Acq: 19 Aug 2020 16:21

Tgt Ion: 75 Resp: 10806
 Ion Ratio Lower Upper
 75 100
 110 3.6 17.5 52.6#
 77 0.0 24.2 36.4#

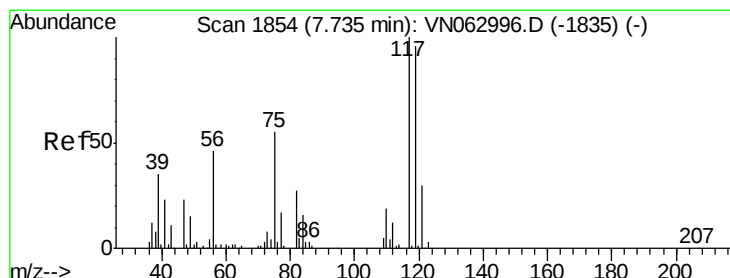
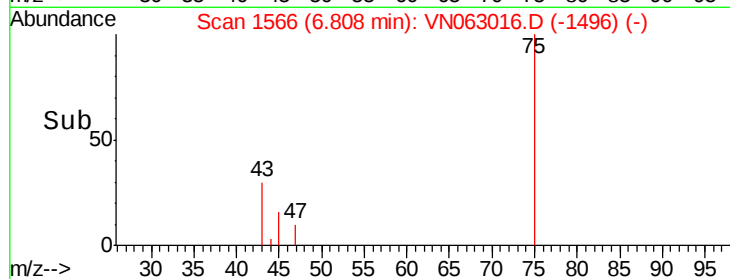
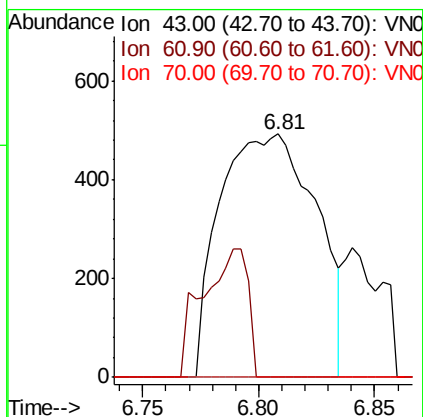
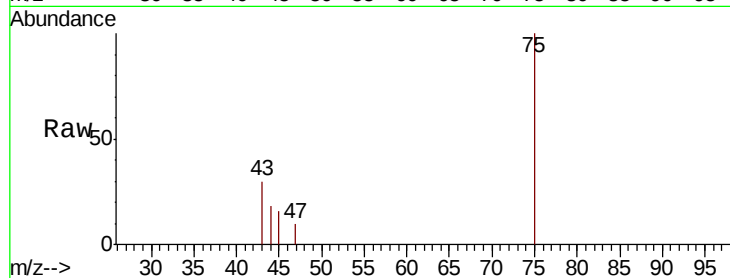




#37
Ethyl Acetate
Concen: 0.710 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.07 min
Lab File: VN063016.D
Acq: 19 Aug 2020 16:21

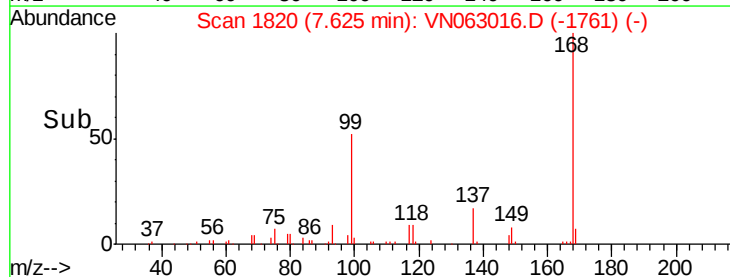
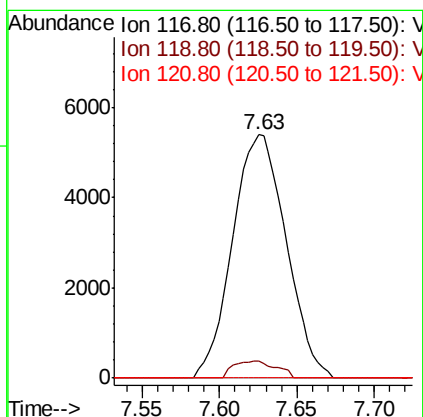
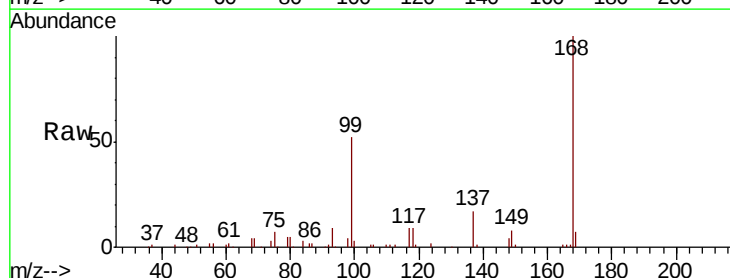
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ClientSampled :
PB131033TB

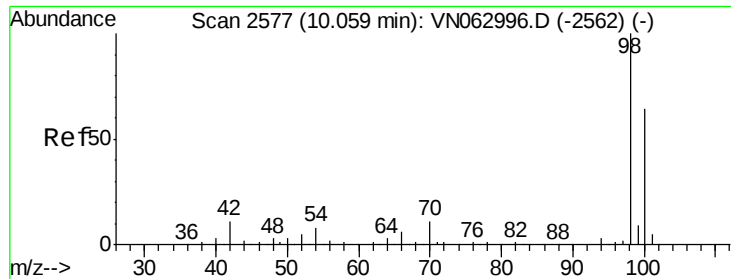
Tot Ion: 43 Resp: 1421
Ion Ratio Lower Upper
43 100
61 24.5 11.8 17.8#
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: 6.029 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN063016.D
Acq: 19 Aug 2020 16:21

Tgt Ion: 117 Resp: 12998
Ion Ratio Lower Upper
117 100
119 6.9 76.2 114.4#
121 0.0 24.2 36.2#





#50

Toluene-d8

Concen: 50.916 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN063016.D

Acq: 19 Aug 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

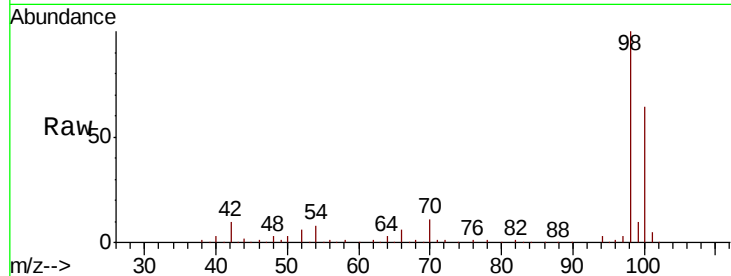
PB131033TB

Tot Ion: 98 Resp: 308775

Ion Ratio Lower Upper

98 100

100 63.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062996.D (-2562) (-)

Ion 100.00 (99.70 to 100.70): VN062996.D (-2562) (-)

10.06

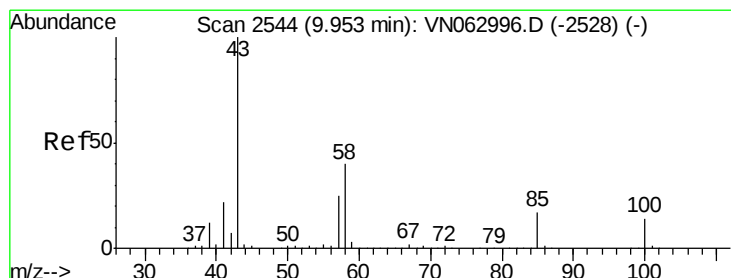
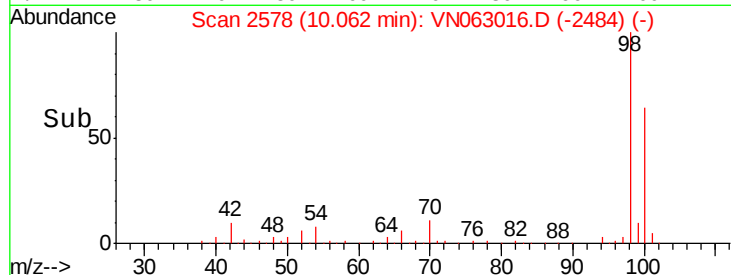
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.897 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN063016.D

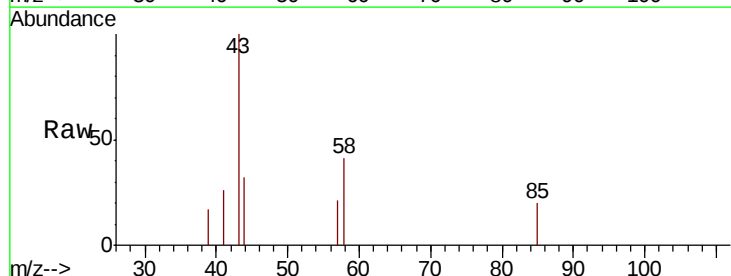
Acq: 19 Aug 2020 16:21

Tgt Ion: 43 Resp: 1880

Ion Ratio Lower Upper

43 100

58 30.2 32.2 48.2#



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN062996.D (-2528) (-)

9.96

1000

800

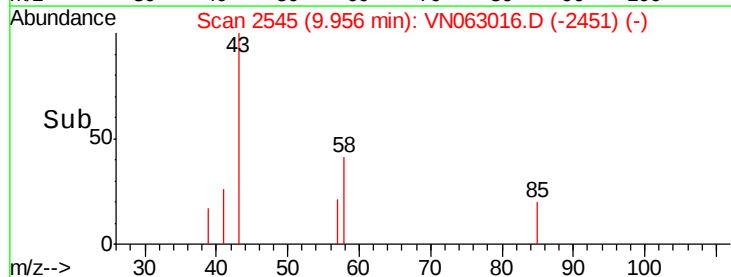
600

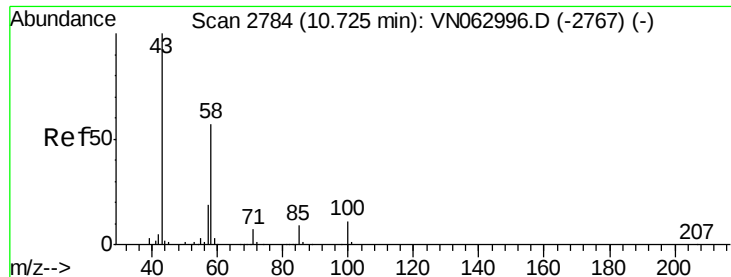
400

200

0

Time-->

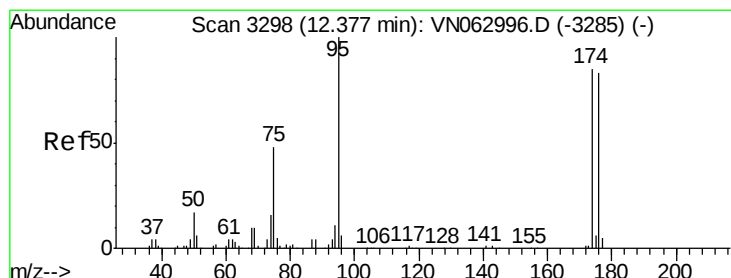
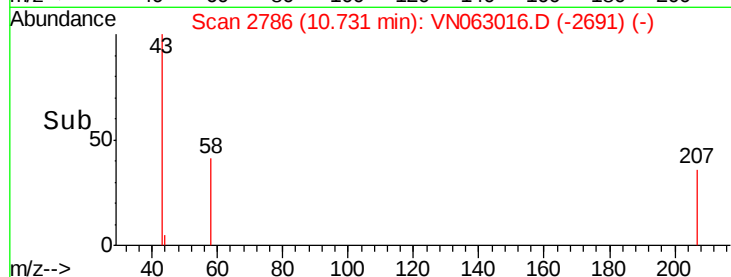
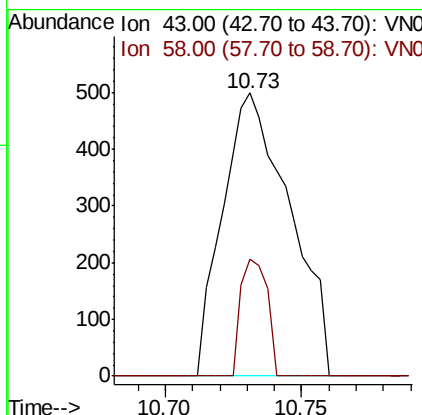
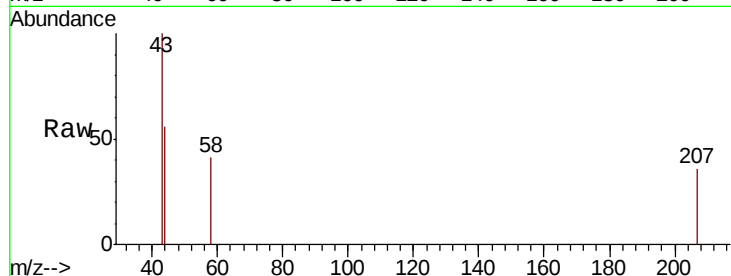




#59
2-Hexanone
Concen: 0.585 ug/l
RT: 10.73 min Scan# 2786
Delta R.T. 0.01 min
Lab File: VN063016.D
Acq: 19 Aug 2020 16:21

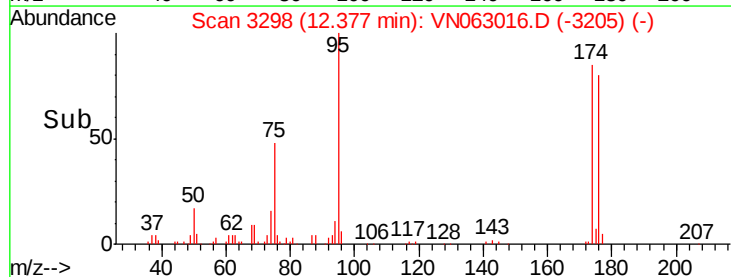
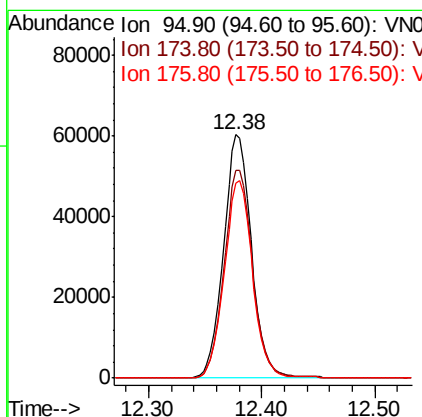
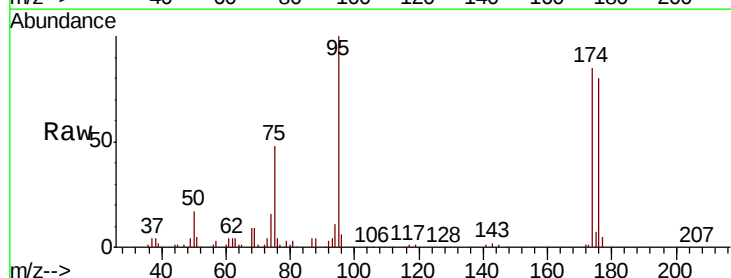
Instrument :
MSVOA_N
ClientSampled :
PB131033TB

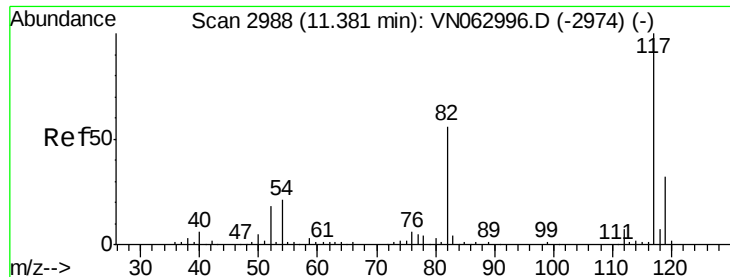
Tot Ion: 43 Resp: 855
Ion Ratio Lower Upper
43 100
58 16.1 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: 48.226 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN063016.D
Acq: 19 Aug 2020 16:21

Tgt Ion: 95 Resp: 103204
Ion Ratio Lower Upper
95 100
174 87.8 0.0 170.8
176 82.8 0.0 164.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN063016.D

Acq: 19 Aug 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

PB131033TB

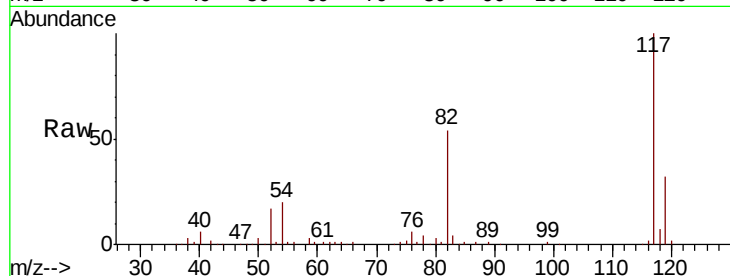
Tot Ion:117 Resp: 248100

Ion Ratio Lower Upper

117 100

82 54.0 44.5 66.7

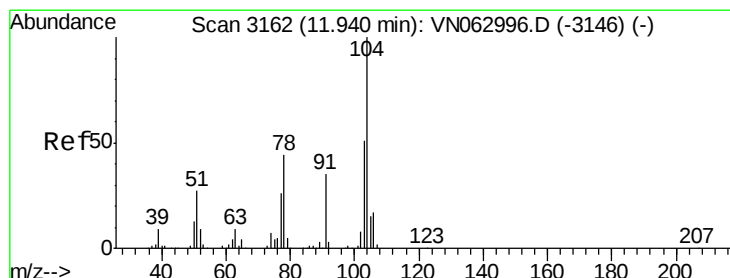
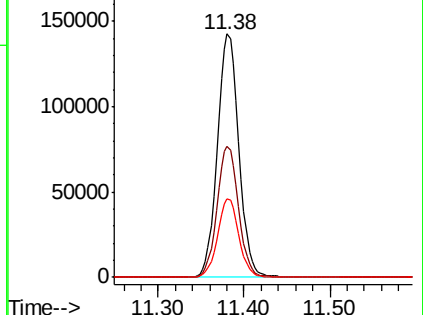
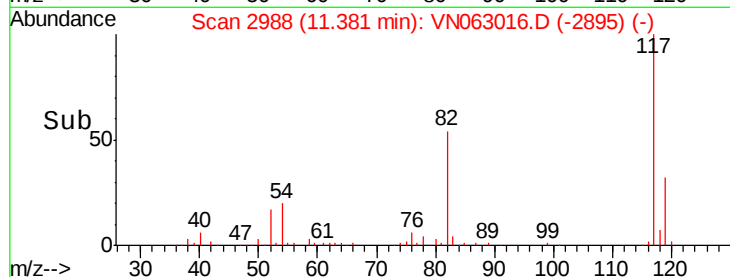
119 32.1 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#70

Styrene

Concen: 1.954 ug/l

RT: 11.94 min Scan# 3161

Delta R.T. -0.00 min

Lab File: VN063016.D

Acq: 19 Aug 2020 16:21

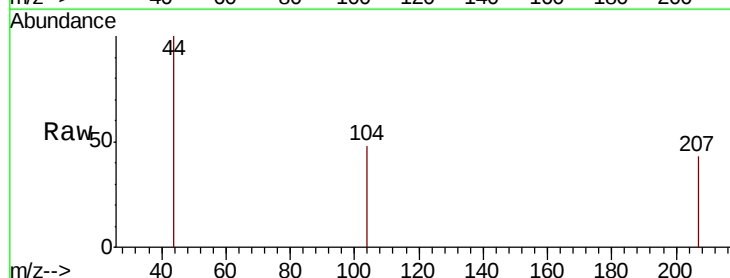
Tgt Ion:104 Resp: 187

Ion Ratio Lower Upper

104 100

78 0.0 39.0 58.6#

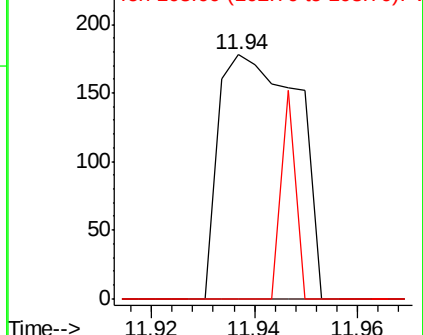
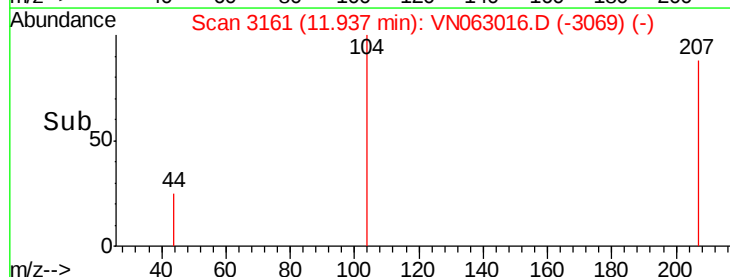
103 15.5 44.3 66.5#

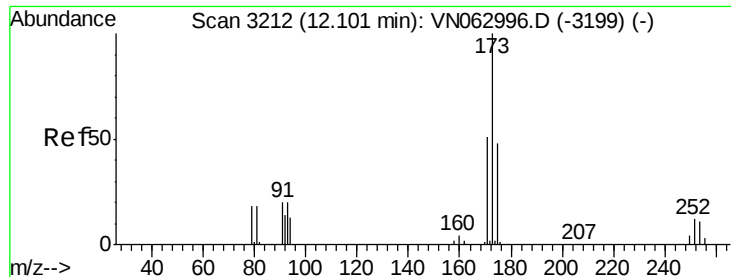


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.570 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN063016.D

Acq: 19 Aug 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

PB131033TB

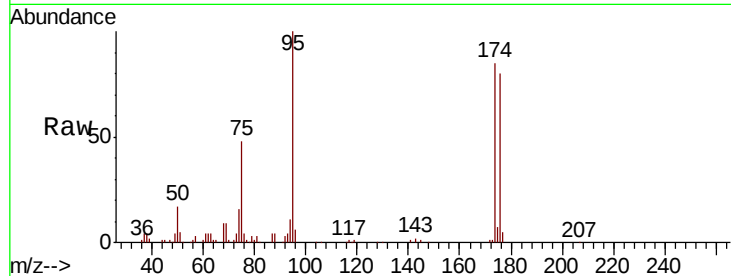
Tot Ion:173 Resp: 880

Ion Ratio Lower Upper

173 100

175 607.8 24.3 72.8#

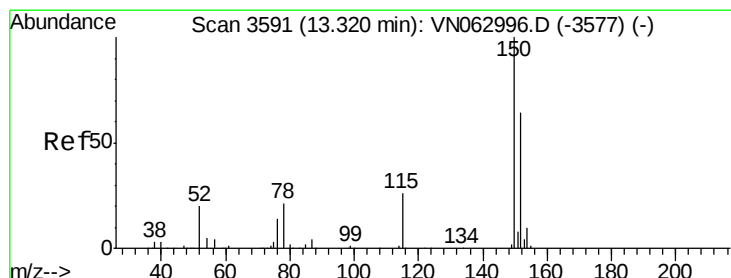
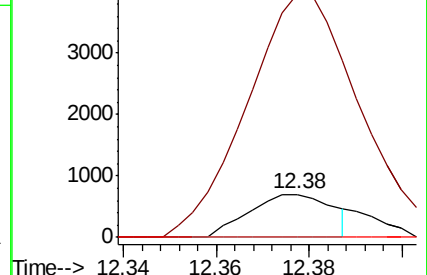
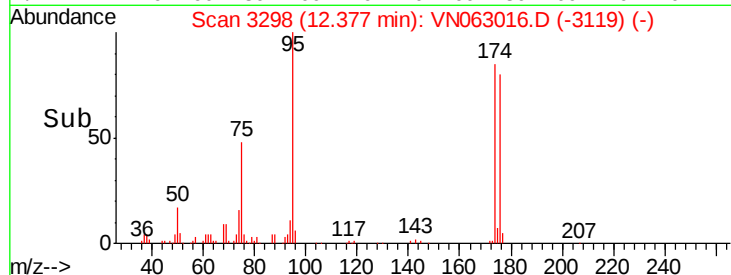
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VN063016.D

Acq: 19 Aug 2020 16:21

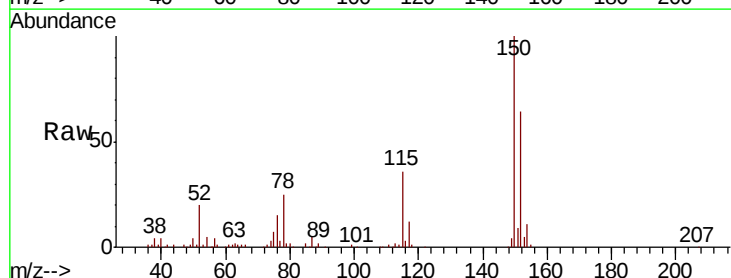
Tgt Ion:152 Resp: 90674

Ion Ratio Lower Upper

152 100

115 56.4 28.7 86.3

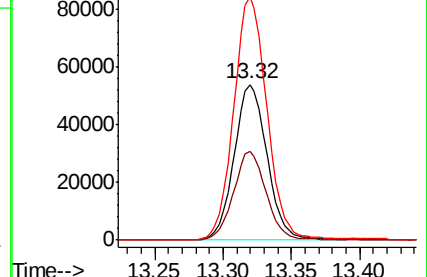
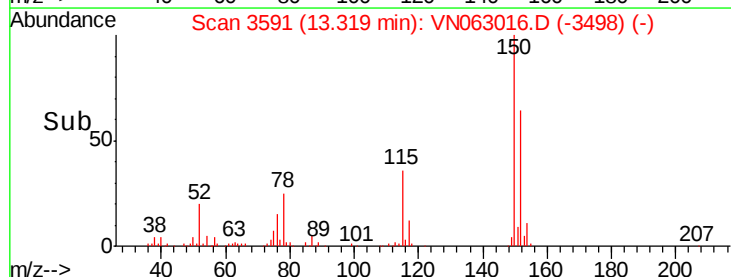
150 157.3 0.0 348.8

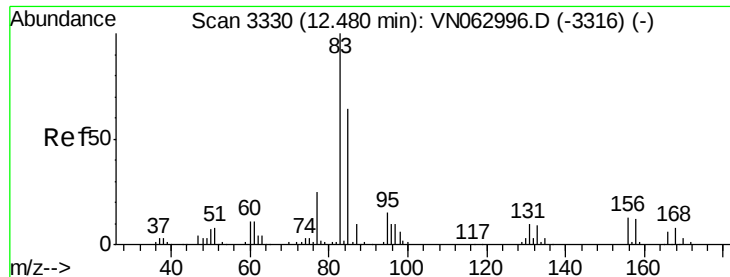


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.49 min Scan# 3332

Delta R.T. 0.01 min

Lab File: VN063016.D

Acq: 19 Aug 2020 16:21

Instrument :

MSVOA_N

ClientSampled :

PB131033TB

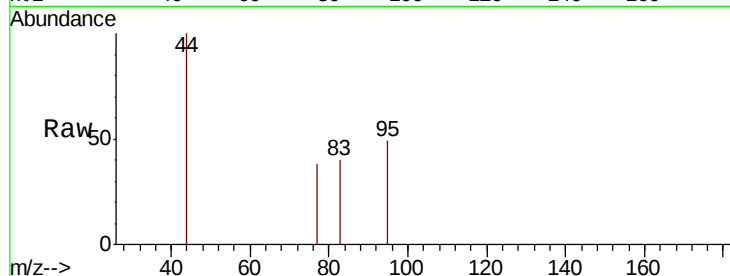
Tot Ion: 83 Resp: 64

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

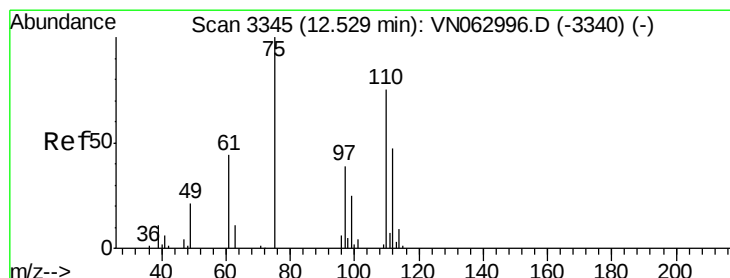
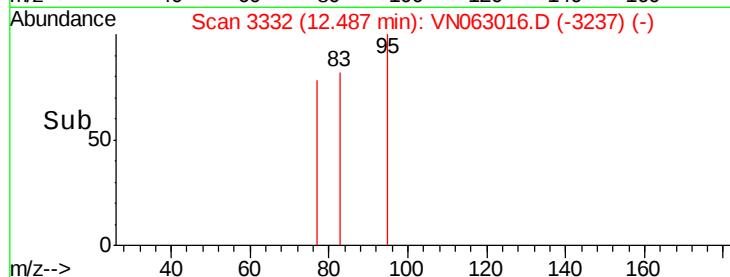
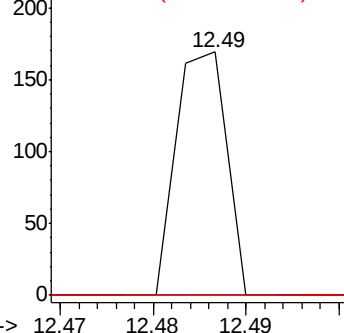
85 0.0 31.9 95.5#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 27.717 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN063016.D

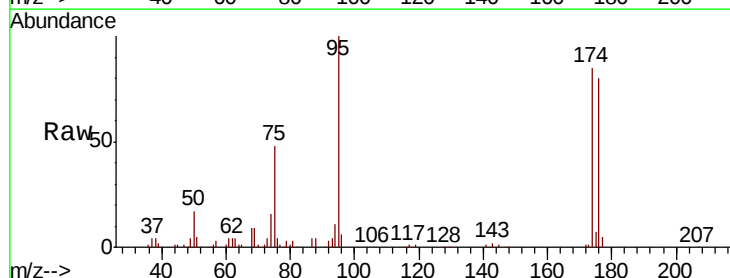
Acq: 19 Aug 2020 16:21

Tgt Ion: 75 Resp: 48851

Ion Ratio Lower Upper

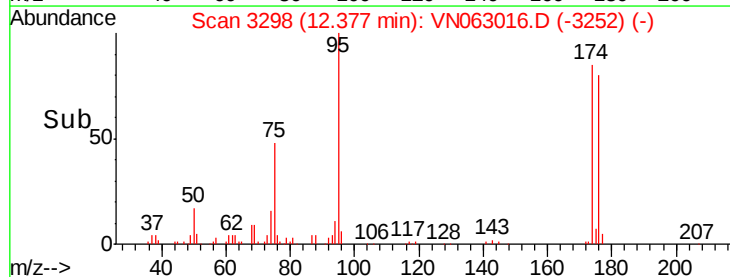
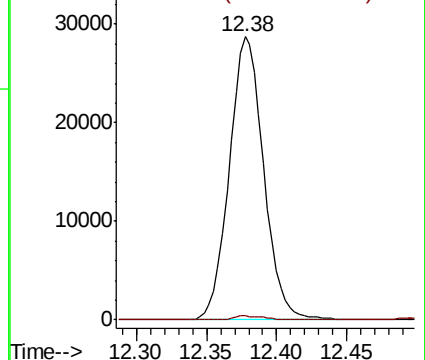
75 100

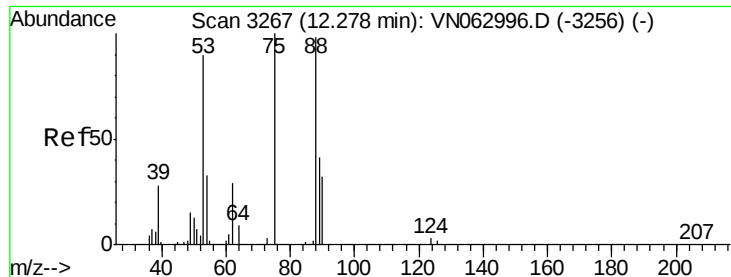
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

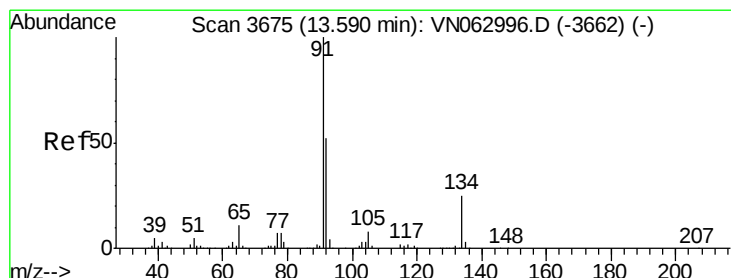
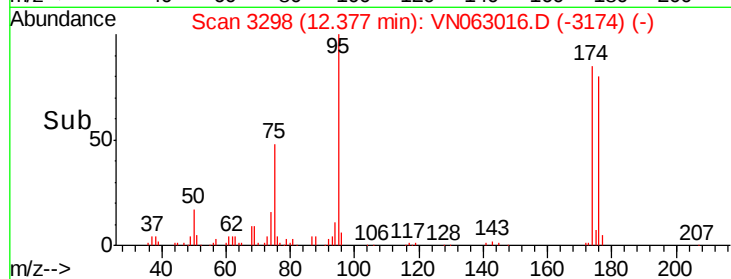
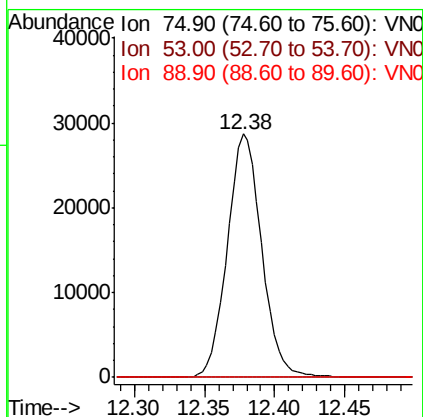
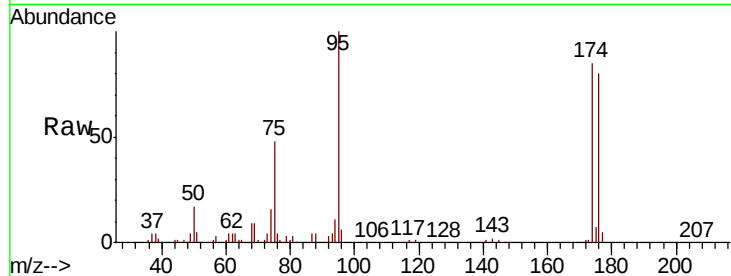




#81
trans-1,4-Dichloro-2-butene
Concen: 76.123 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN063016.D
Acq: 19 Aug 2020 16:21

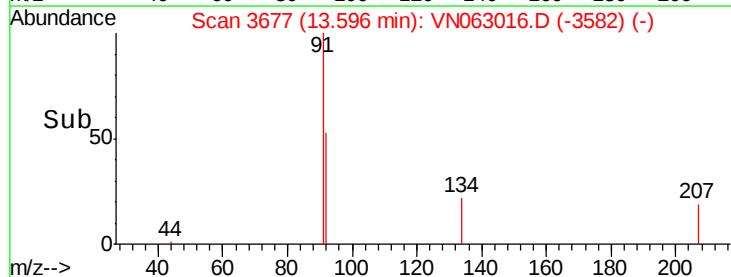
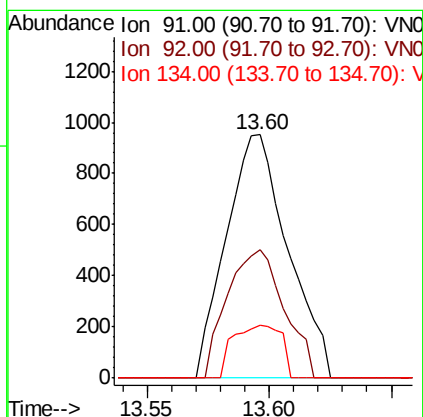
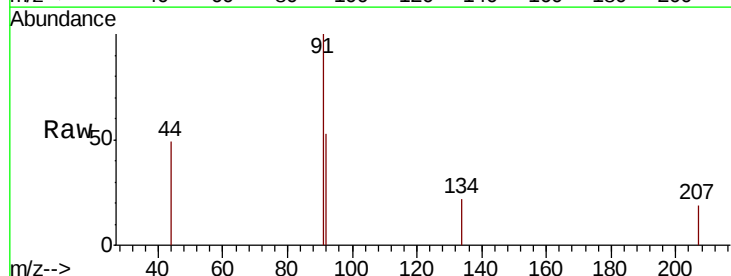
Instrument :
MSVOA_N
ClientSampleId :
PB131033TB

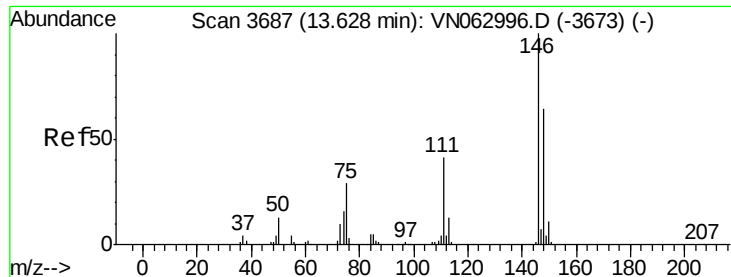
Tot Ion: 75 Resp: 48851
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 34.2 51.4#



#89
n-Butylbenzene
Concen: 3.090 ug/l
RT: 13.60 min Scan# 3677
Delta R.T. 0.01 min
Lab File: VN063016.D
Acq: 19 Aug 2020 16:21

Tgt Ion: 91 Resp: 1670
Ion Ratio Lower Upper
91 100
92 48.8 25.9 77.6
134 16.8 12.4 37.0

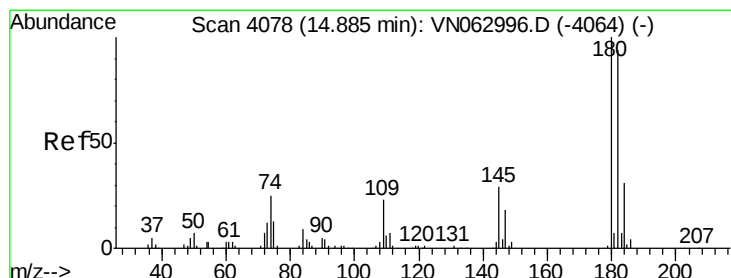
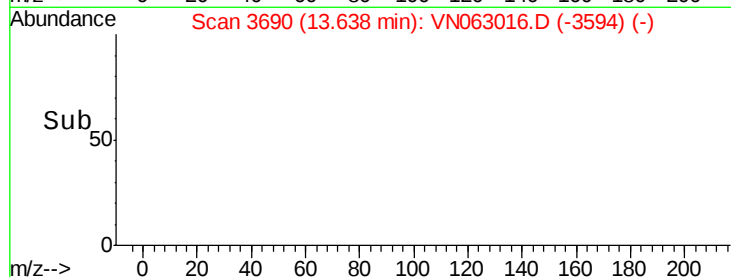
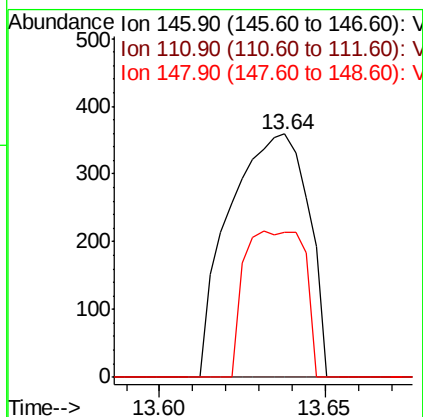
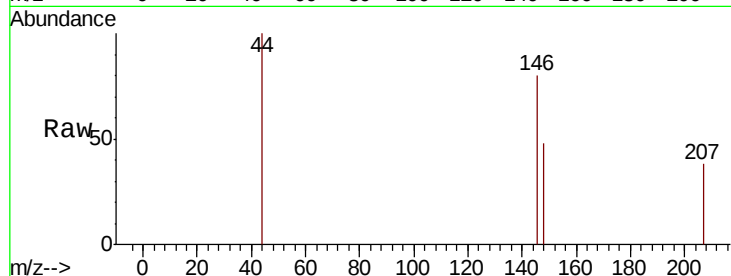




#91
 1,2-Dichlorobenzene
 Concen: 0.210 ug/l
 RT: 13.64 min Scan# 3690
 Delta R.T. 0.01 min
 Lab File: VN063016.D
 Acq: 19 Aug 2020 16:21

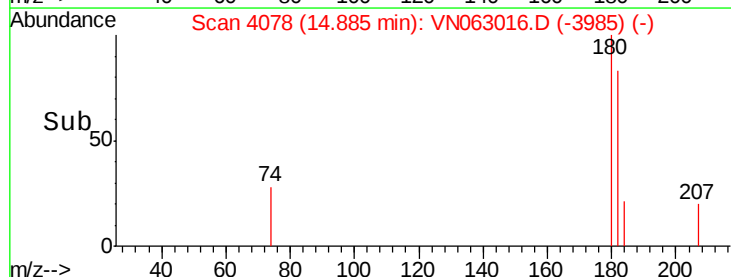
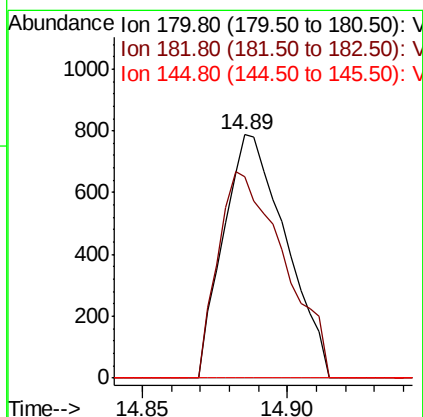
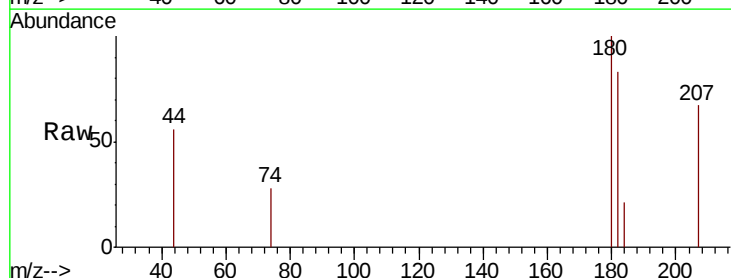
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131033TB

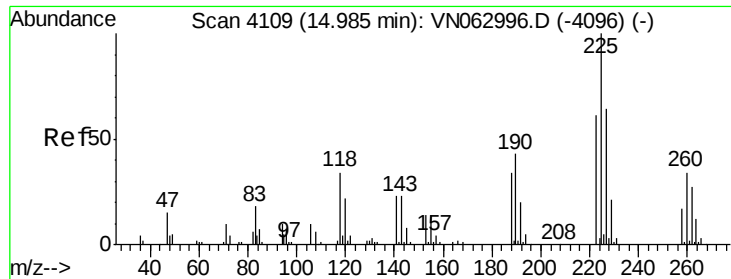
Tot Ion:146 Resp: 594
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.2 60.5#
 148 46.0 31.9 95.5



#93
 1,2,4-Trichlorobenzene
 Concen: 5.224 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. 0.00 min
 Lab File: VN063016.D
 Acq: 19 Aug 2020 16:21

Tgt Ion:180 Resp: 1174
 Ion Ratio Lower Upper
 180 100
 182 89.6 47.0 141.2
 145 0.0 14.1 42.4#





#94

Hexachlorobutadiene

Concen: 0.252 ug/l

RT: 14.98 min Scan# 4108

Delta R.T. -0.00 min

Lab File: VN063016.D

Acq: 19 Aug 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

PB131033TB

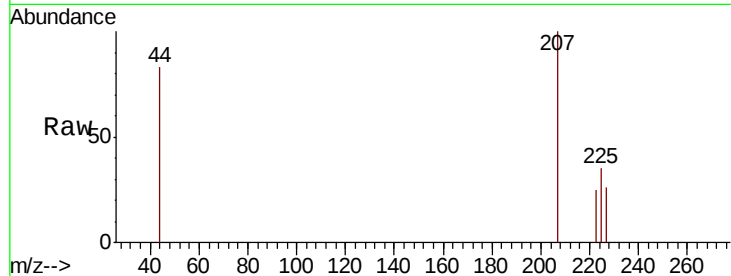
Tot Ion:225 Resp: 264

Ion Ratio Lower Upper

225 100

223 11.4 30.9 92.5#

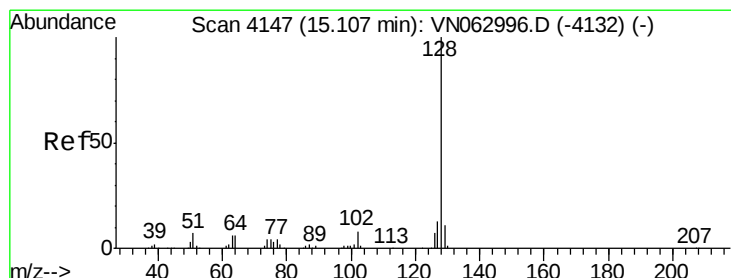
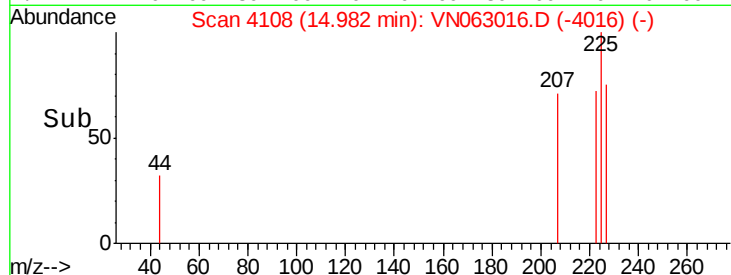
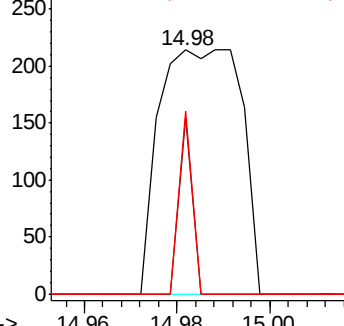
227 11.7 31.9 95.9#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 6.440 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.00 min

Lab File: VN063016.D

Acq: 19 Aug 2020 16:21

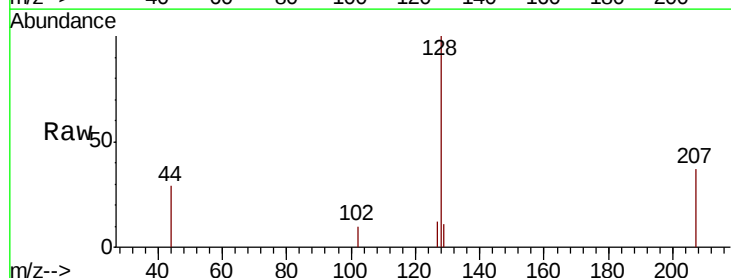
Tgt Ion:128 Resp: 3255

Ion Ratio Lower Upper

128 100

127 7.6 10.6 16.0#

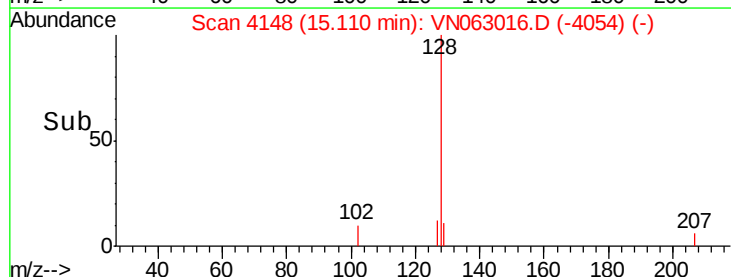
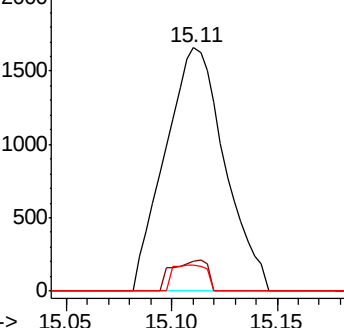
129 6.0 8.9 13.3#

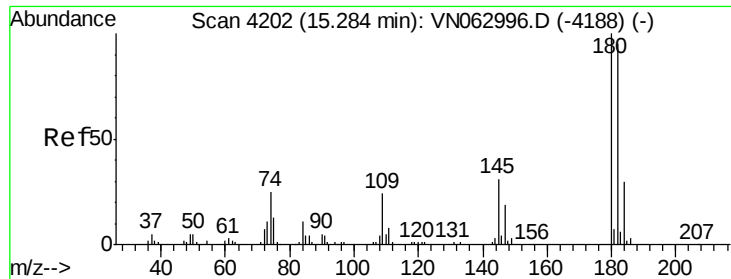


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 4.865 ug/l
 RT: 15.29 min Scan# 4203
 Delta R.T. 0.00 min
 Lab File: VN063016.D
 Acq: 19 Aug 2020 16:21

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131033TB

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.3	141.9
145	21.9	15.6	46.7

