

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072120\
 Data File : VN062581.D
 Acq On : 21 Jul 2020 19:16
 Operator : JC/MD
 Sample : PB130329ZHE#15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130329ZHE#15

Quant Time: Jul 22 05:07:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	173221	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	309412	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	305934	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	107271	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	137342	51.04	ug/l	0.00
Spiked Amount			Recovery	=	102.08%	
35) Dibromofluoromethane	7.55	113	100641	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
50) Toluene-d8	10.06	98	406738	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
62) 4-Bromofluorobenzene	12.38	95	143340	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	

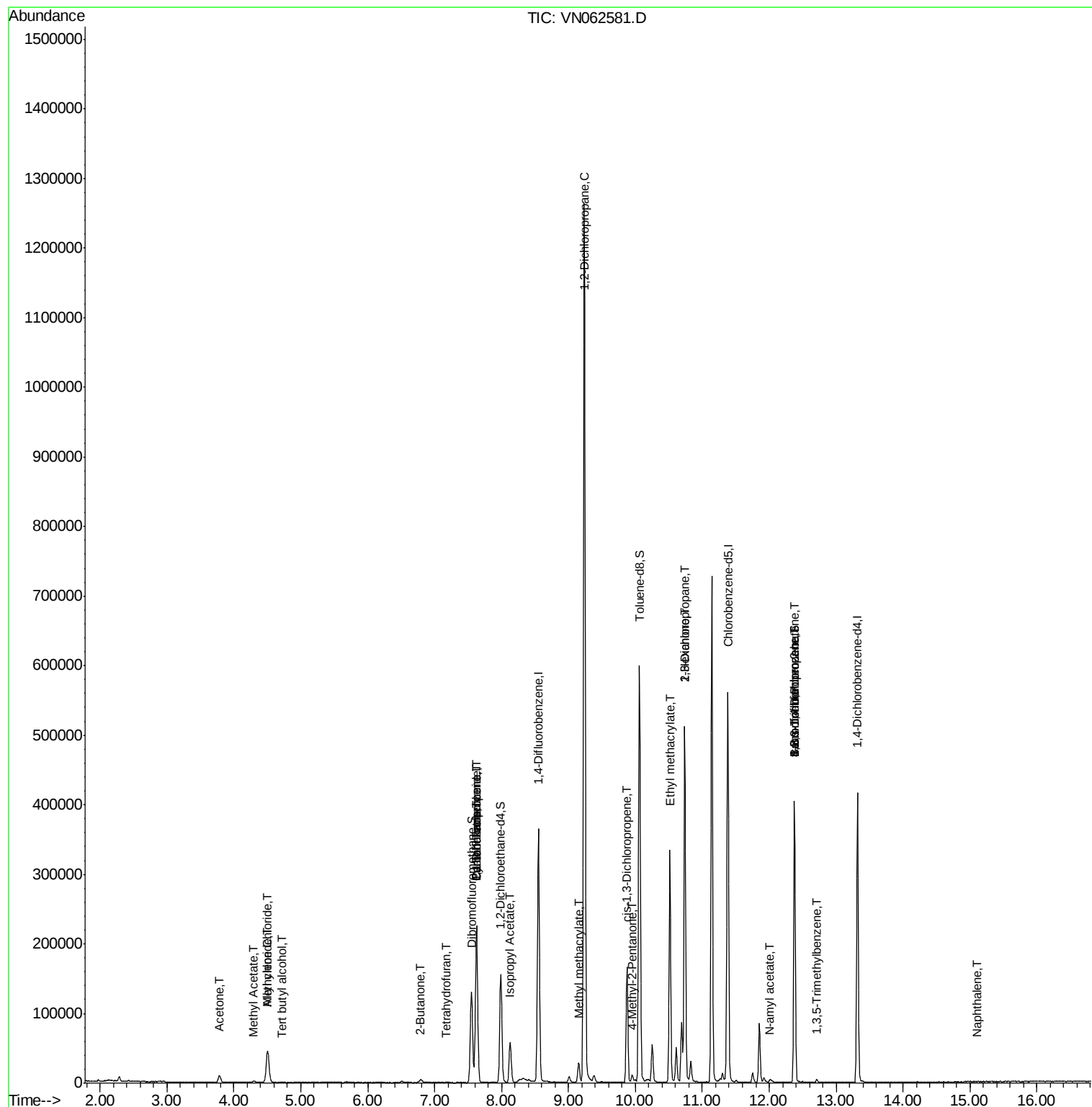
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	348	0.813	ug/l #	73
14) Allyl chloride	4.49	41	1131	0.282	ug/l #	28
16) Acetone	3.79	43	17617	17.398	ug/l	97
18) Methyl Acetate	4.29	43	4181	1.631	ug/l #	70
20) Methylene Chloride	4.51	84	33158	13.653	ug/l	99
25) 2-Butanone	6.79	43	3266	2.118	ug/l	99
29) Tetrahydrofuran	7.18	42	484	0.464	ug/l #	38
31) Cyclohexane	7.62	56	3888	0.981	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	14944	4.531	ug/l #	50
38) Carbon Tetrachloride	7.62	117	17904	5.648	ug/l #	18
43) Isopropyl Acetate	8.13	43	70996	12.388	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	1227	0.438	ug/l #	44
48) Methyl methacrylate	9.15	41	4413	1.620	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	8471	2.470	ug/l	96
54) cis-1,3-Dichloropropene	9.88	75	27914	6.657	ug/l #	65
56) Ethyl methacrylate	10.51	69	1264	2.071	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4613	1.120	ug/l #	42
59) 2-Hexanone	10.74	43	78884	32.352	ug/l #	54
71) Bromoform	12.38	173	583	0.322	ug/l #	1
74) N-amyl acetate	12.01	43	2582	0.682	ug/l #	47
76) 1,2,3-Trichloropropane	12.38	75	76803	28.129	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2691	0.382	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	76803	78.303	ug/l #	12
95) Naphthalene	15.11	128	284	3.816	ug/l #	69

(#) = 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: VN062581.D

Acq: 21 Jul 2020 19:16

Instrument :

MSVOA_N

ClientSampleId :

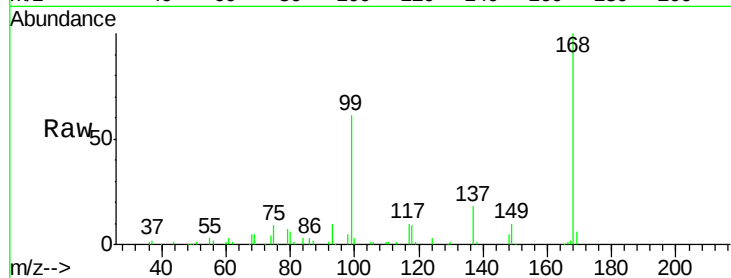
PB130329ZHE#15

Tot Ion:168 Resp: 173221

Ion Ratio Lower Upper

168 100

99 61.4 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

80000

60000

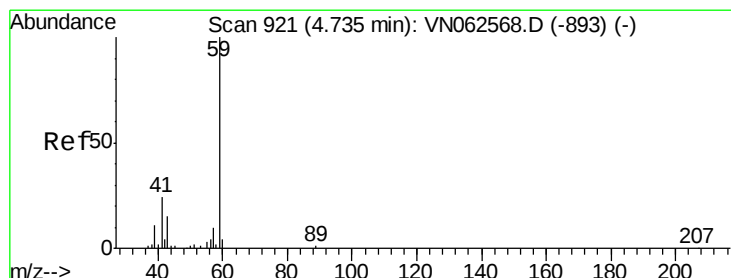
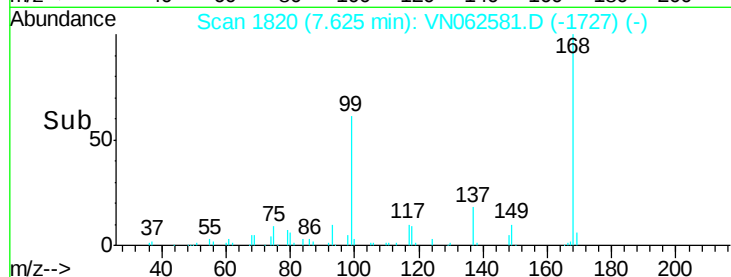
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#11

Tert butyl alcohol

Concen: 0.813 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.00 min

Lab File: VN062581.D

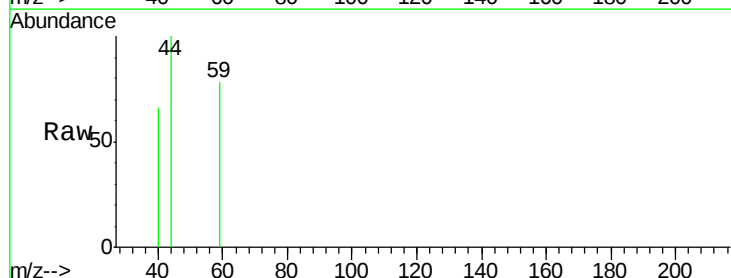
Acq: 21 Jul 2020 19:16

Tgt Ion: 59 Resp: 348

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.73

400

300

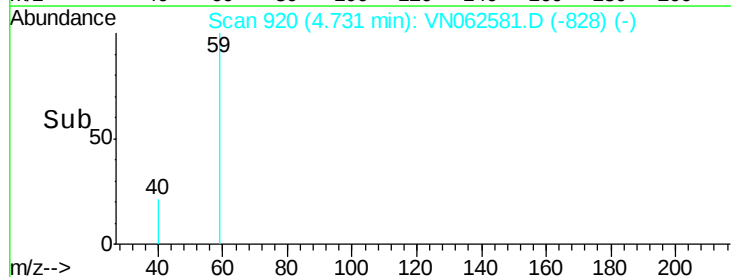
200

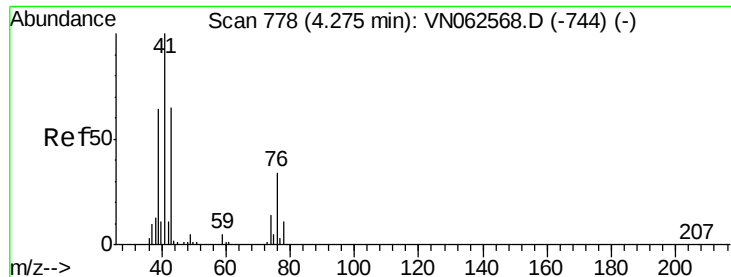
100

0

Time-->

4.72 4.73 4.74





#14

Allv1 chloride

Concen: 0.282 ug/l

RT: 4.49 min Scan# 846

Delta R.T. 0.22 min

Lab File: VN062581.D

Acq: 21 Jul 2020 19:16

Instrument :

MSVOA_N

ClientSampleId :

PB130329ZHE#15

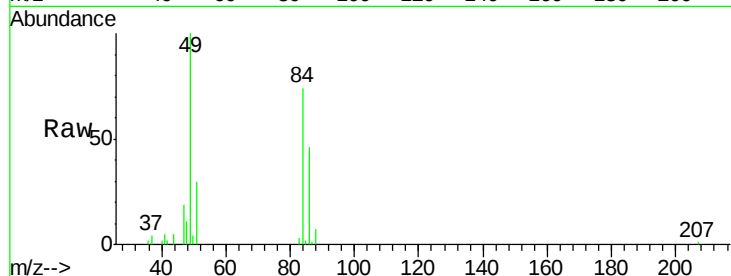
Tot Ion: 41 Resp: 1131

Ion Ratio Lower Upper

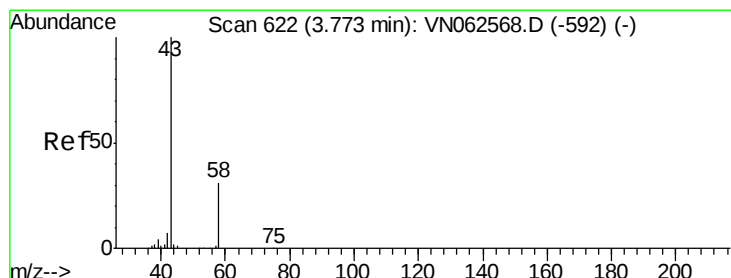
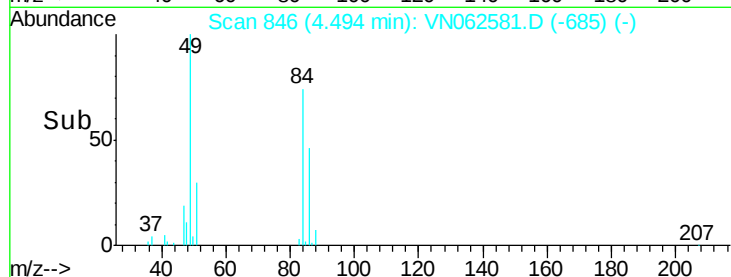
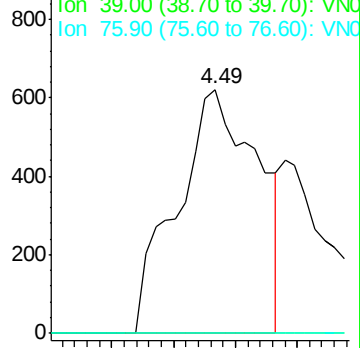
41 100

39 0.0 49.0 73.4#

76 0.0 24.0 36.0#



Abundance Ion 41.00 (40.70 to 41.70): VN062581.D (-846) (-)



#16

Acetone

Concen: 17.398 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN062581.D

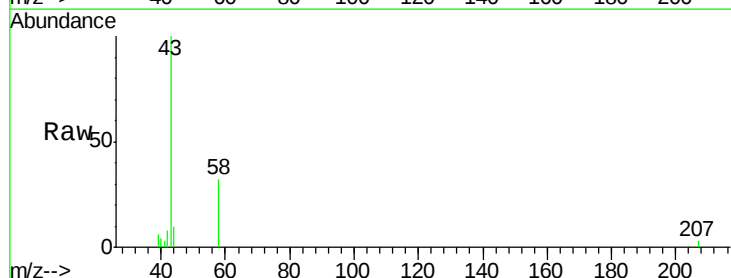
Acq: 21 Jul 2020 19:16

Tgt Ion: 43 Resp: 17617

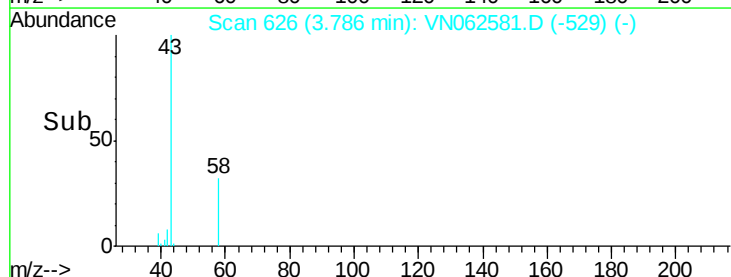
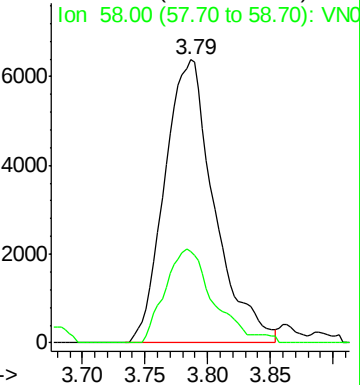
Ion Ratio Lower Upper

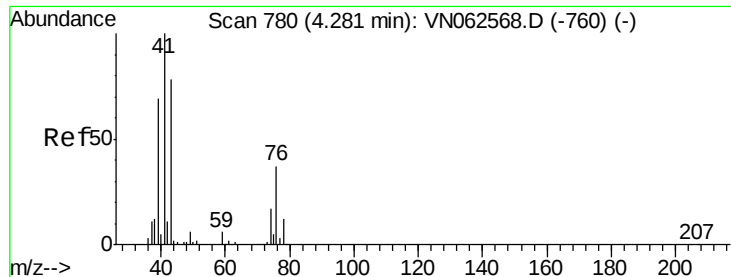
43 100

58 32.5 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN062581.D (-626) (-)





#18

Methyl Acetate

Concen: 1.631 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.01 min

Lab File: VN062581.D

Acq: 21 Jul 2020 19:16

Instrument :

MSVOA_N

ClientSampleId :

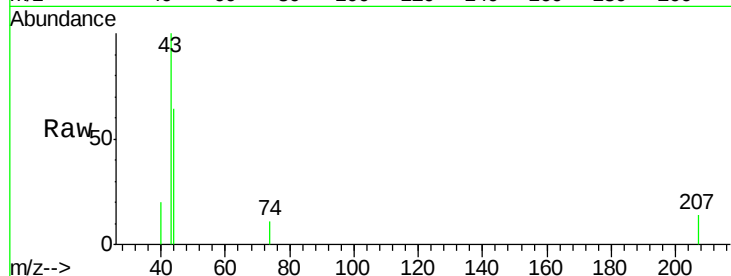
PB130329ZHE#15

Tot Ion: 43 Resp: 4181

Ion Ratio Lower Upper

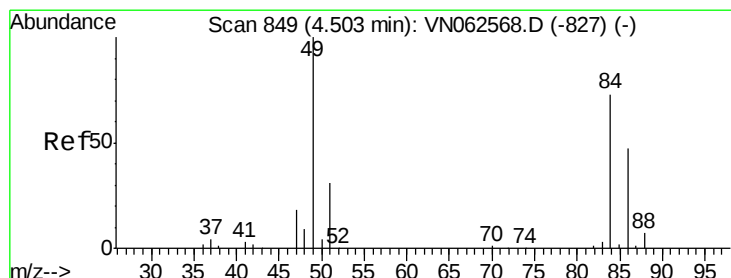
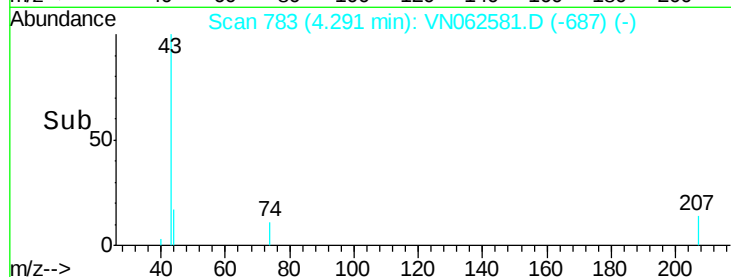
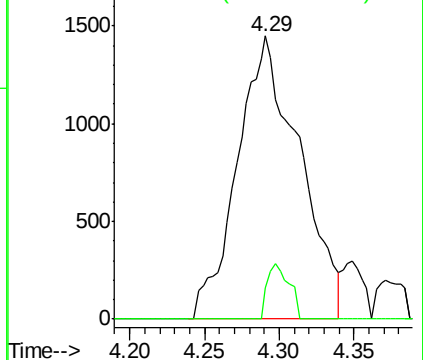
43 100

74 6.8 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#20

Methylene Chloride

Concen: 13.653 ug/l

RT: 4.51 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN062581.D

Acq: 21 Jul 2020 19:16

Tgt Ion: 84 Resp: 33158

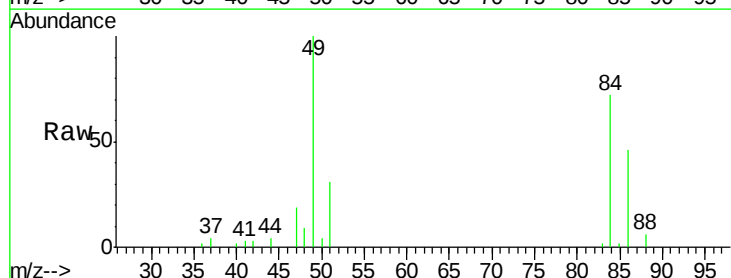
Ion Ratio Lower Upper

84 100

49 138.5 109.4 164.0

51 42.3 33.6 50.4

86 63.2 51.4 77.2

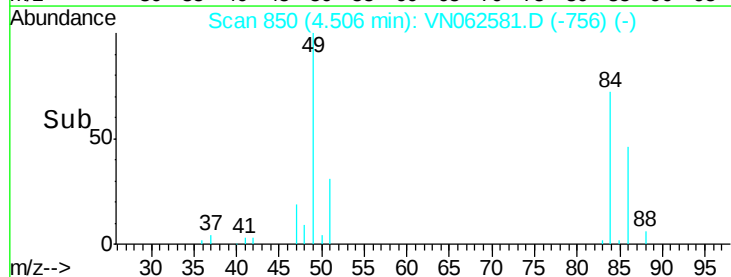
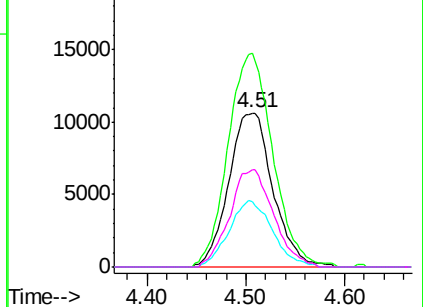


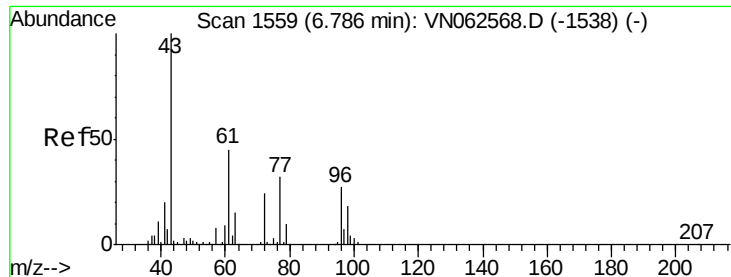
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

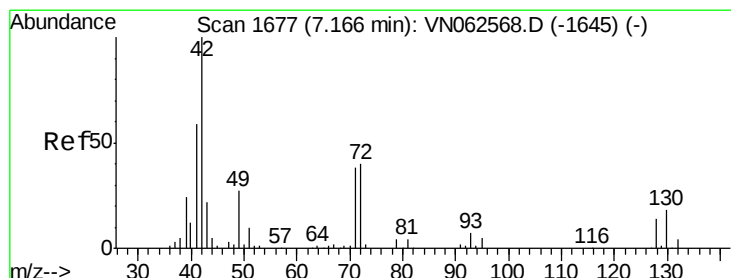
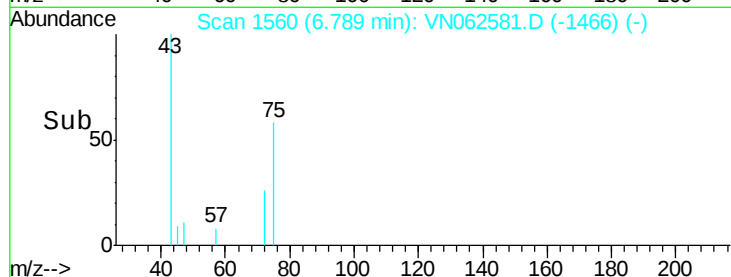
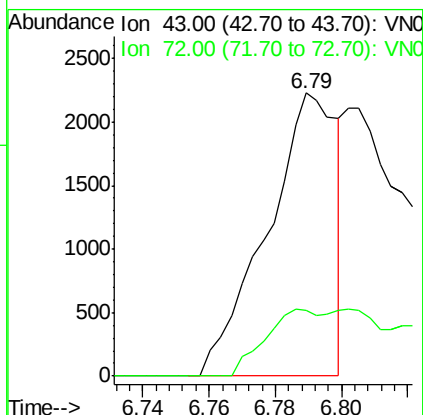
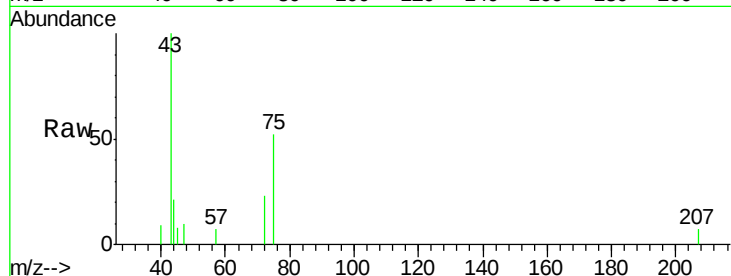




#25
2-Butanone
Concen: 2.118 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VN062581.D
Acq: 21 Jul 2020 19:16

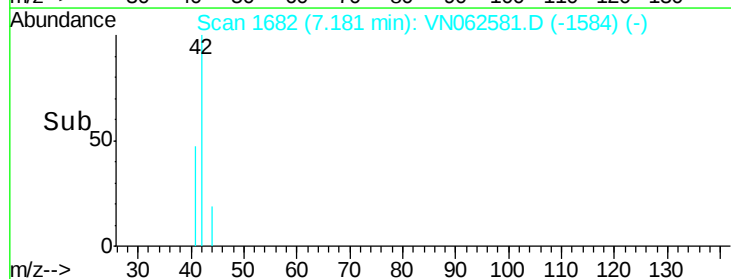
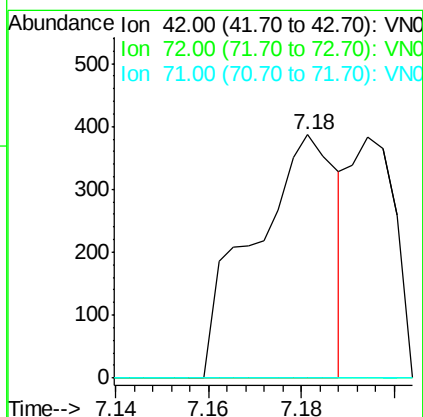
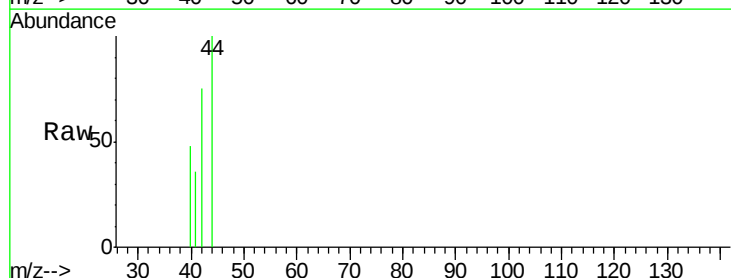
Instrument :
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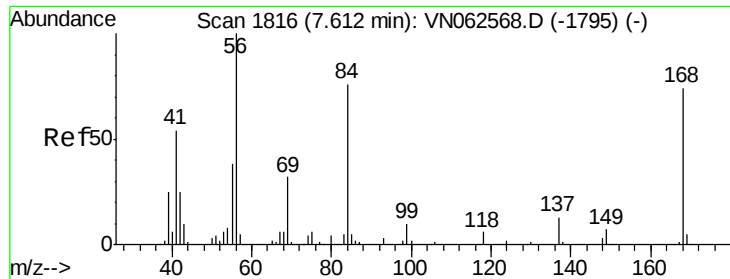
Tot Ion: 43 Resp: 3266
Ion Ratio Lower Upper
43 100
72 23.2 19.0 28.6



#29
Tetrahydrofuran
Concen: 0.464 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.02 min
Lab File: VN062581.D
Acq: 21 Jul 2020 19:16

Tgt Ion: 42 Resp: 484
Ion Ratio Lower Upper
42 100
72 0.0 30.7 46.1#
71 0.0 29.1 43.7#

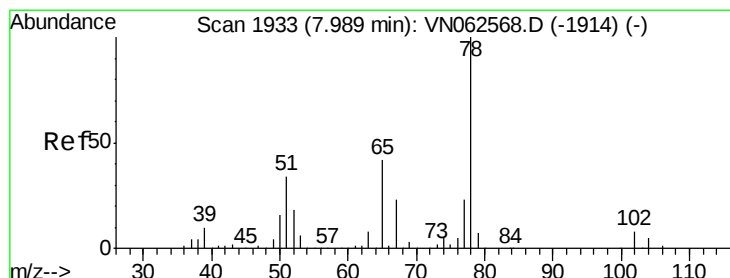
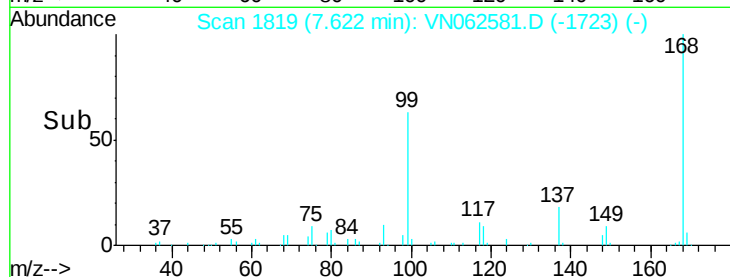
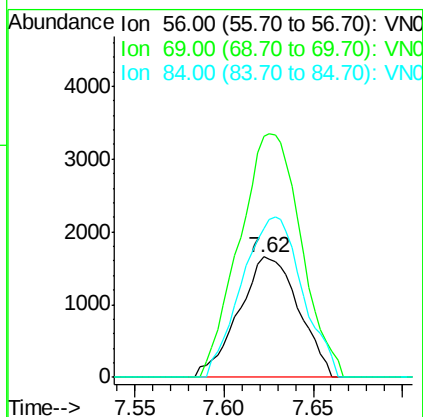
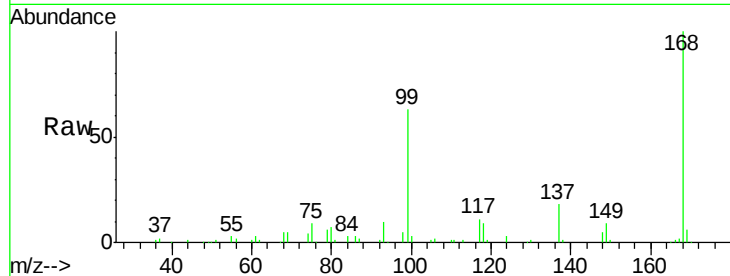




#31
Cyclohexane
Concen: 0.981 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN062581.D
Acq: 21 Jul 2020 19:16

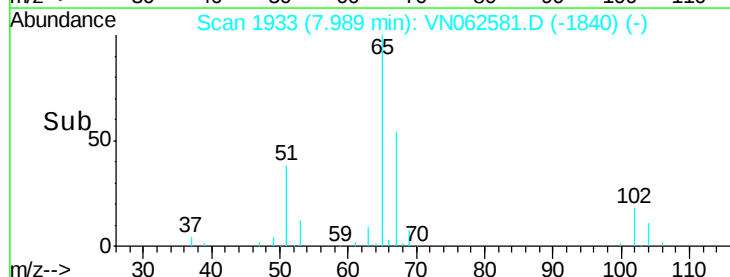
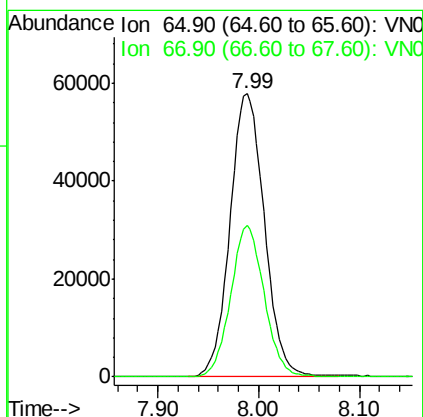
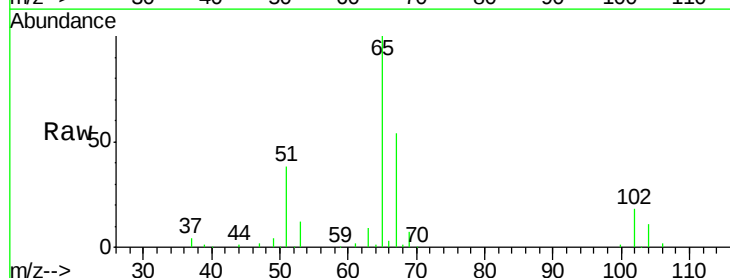
Instrument :
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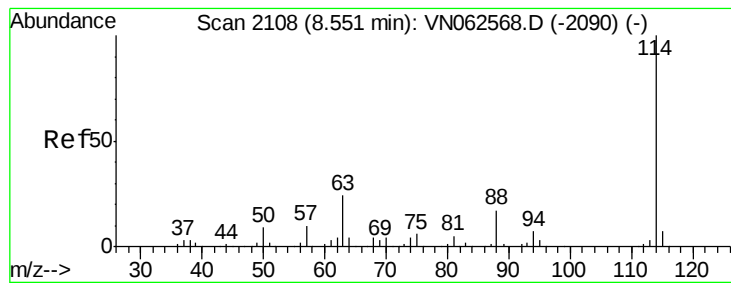
Tot Ion: 56 Resp: 3888
Ion Ratio Lower Upper
56 100
69 199.9 25.3 37.9#
84 123.8 61.0 91.4#



#33
1,2-Dichloroethane-d4
Concen: 51.039 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN062581.D
Acq: 21 Jul 2020 19:16

Tgt Ion: 65 Resp: 137342
Ion Ratio Lower Upper
65 100
67 51.8 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062581.D

Acq: 21 Jul 2020 19:16

Instrument :

MSVOA_N

ClientSampleId :

PB130329ZHE#15

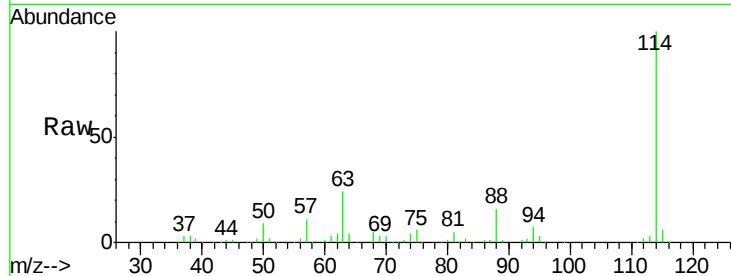
Tot Ion:114 Resp: 309412

Ion Ratio Lower Upper

114 100

63 24.0 0.0 48.4

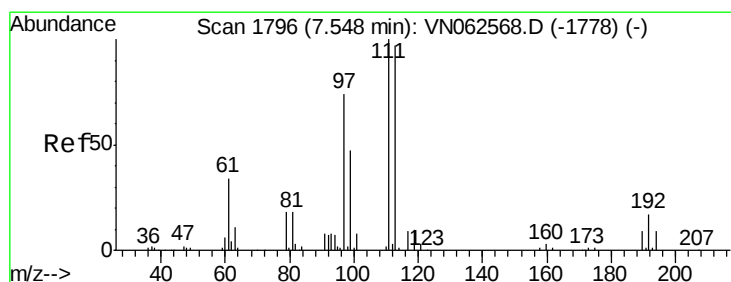
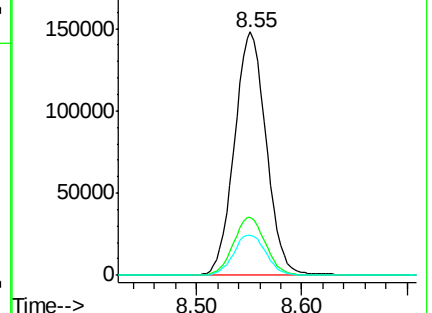
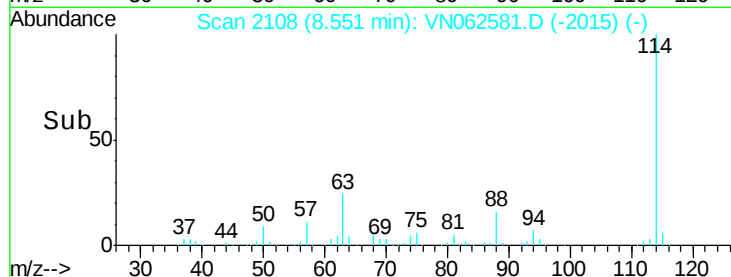
88 16.5 0.0 33.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 49.518 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN062581.D

Acq: 21 Jul 2020 19:16

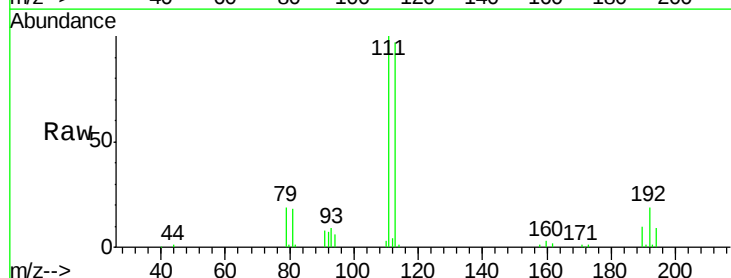
Tgt Ion:113 Resp: 100641

Ion Ratio Lower Upper

113 100

111 102.5 82.7 124.1

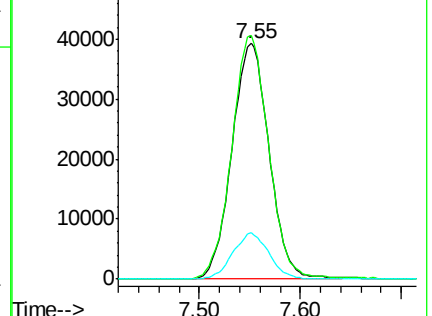
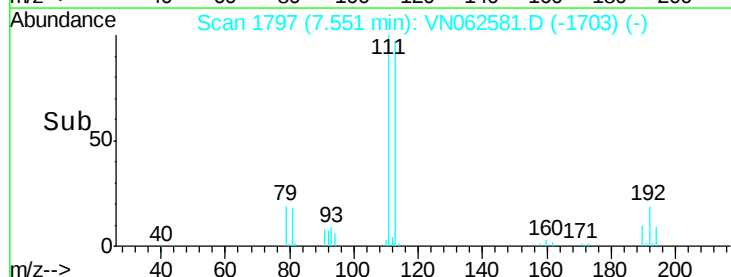
192 19.0 14.8 22.2

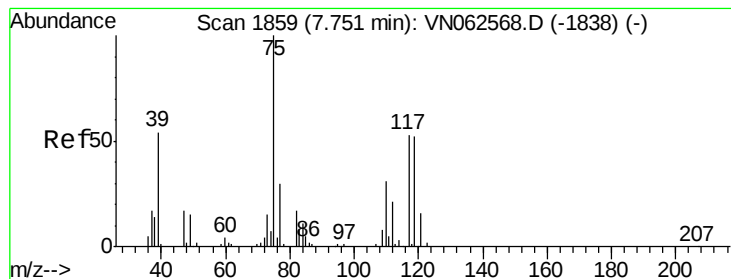


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.531 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.12 min

Lab File: VN062581.D

Acq: 21 Jul 2020 19:16

Instrument :

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ClientSampleId :

PB130329ZHE#15

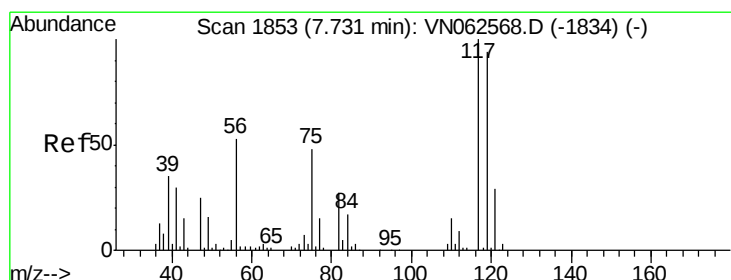
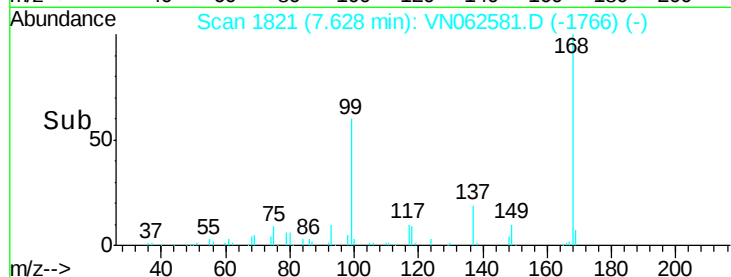
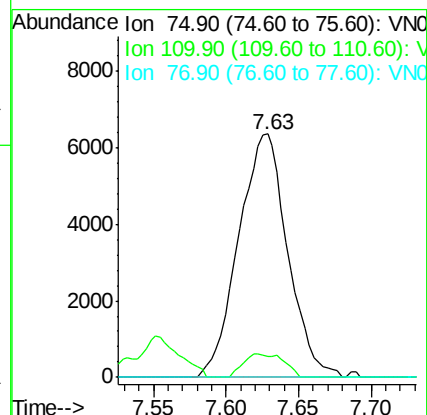
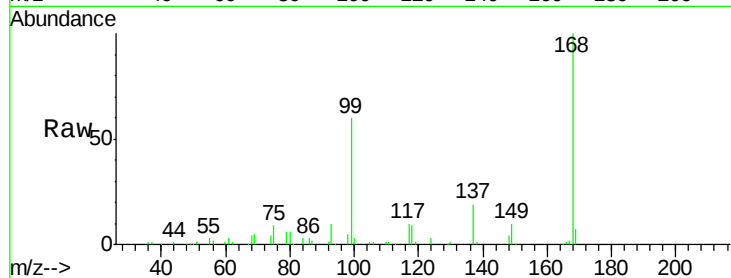
Tot Ion: 75 Resp: 14944

Ion Ratio Lower Upper

75 100

110 7.9 16.0 48.0#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.648 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VN062581.D

Acq: 21 Jul 2020 19:16

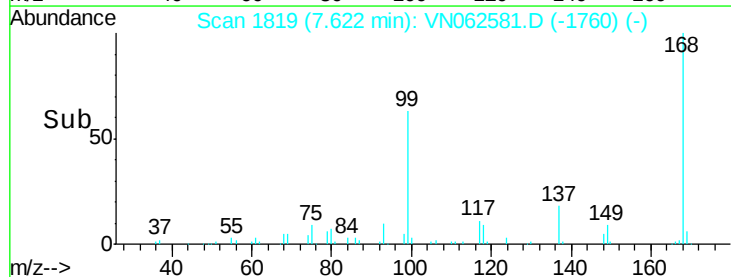
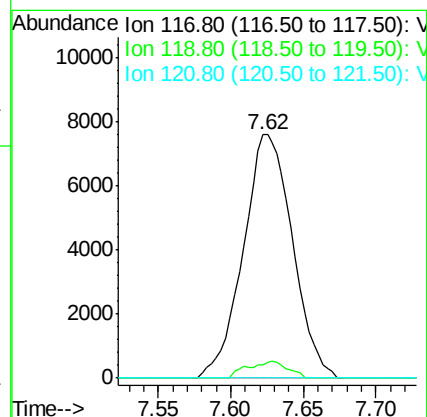
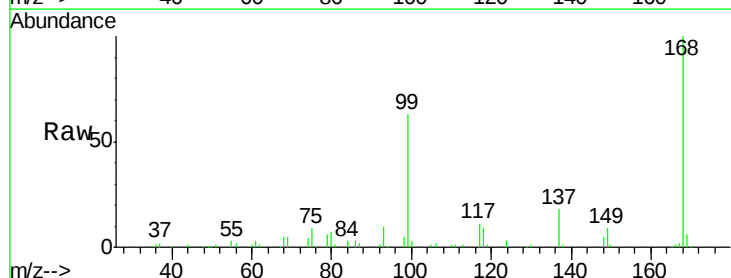
Tgt Ion: 117 Resp: 17904

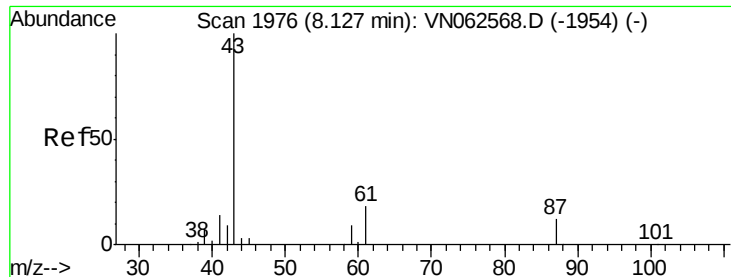
Ion Ratio Lower Upper

117 100

119 5.7 74.8 112.2#

121 0.0 23.0 34.6#





#43

Isopropyl Acetate

Concen: 12.388 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062581.D

Acq: 21 Jul 2020 19:16

Instrument :

MSVOA_N

ClientSampleId :

PB130329ZHE#15

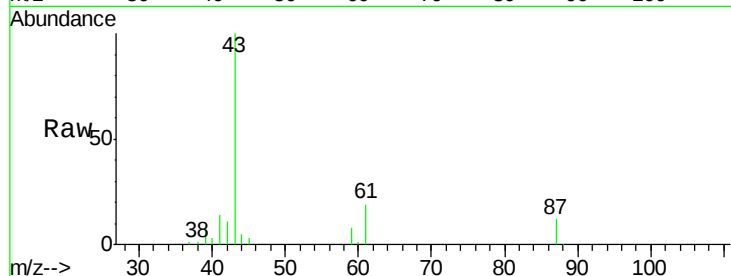
Tot Ion: 43 Resp: 70996

Ion Ratio Lower Upper

43 100

61 18.9 20.8 31.2#

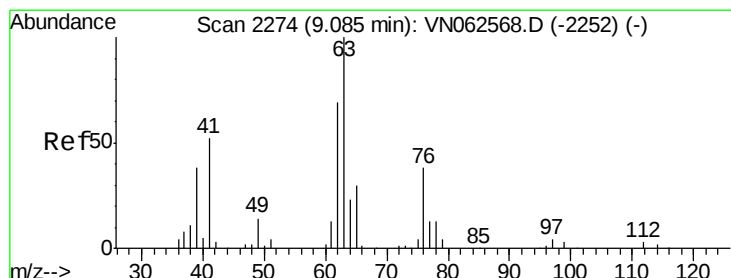
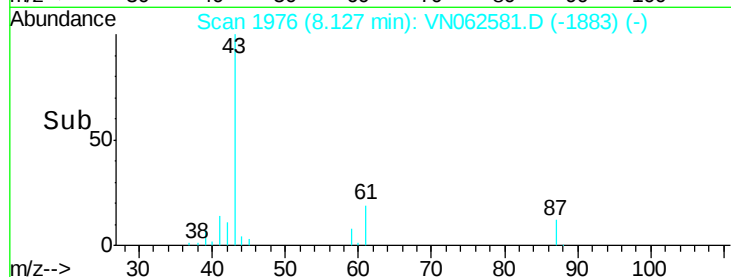
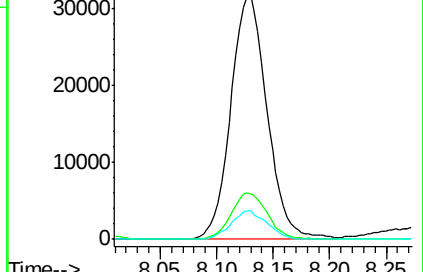
87 11.4 9.2 13.8



Abundance Ion 43.00 (42.70 to 43.70): VN062581.D (-1954) (-)

Ion 61.00 (60.70 to 61.70): VN062581.D (-1954) (-)

Ion 87.00 (86.70 to 87.70): VN062581.D (-1954) (-)



#45

1,2-Dichloropropane

Concen: 0.438 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062581.D

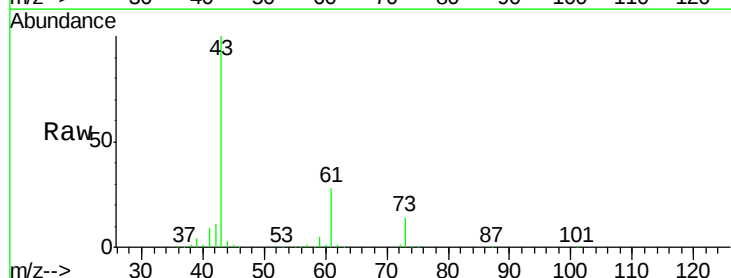
Acq: 21 Jul 2020 19:16

Tgt Ion: 63 Resp: 1227

Ion Ratio Lower Upper

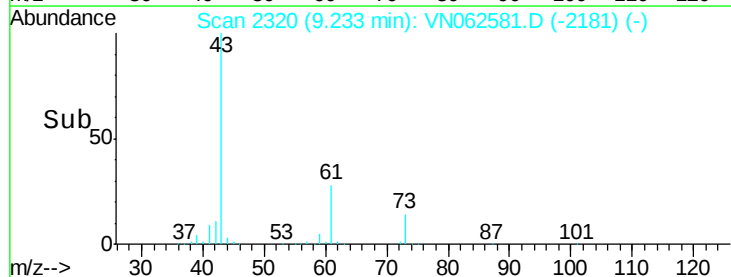
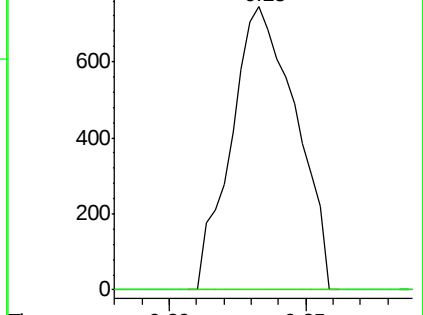
63 100

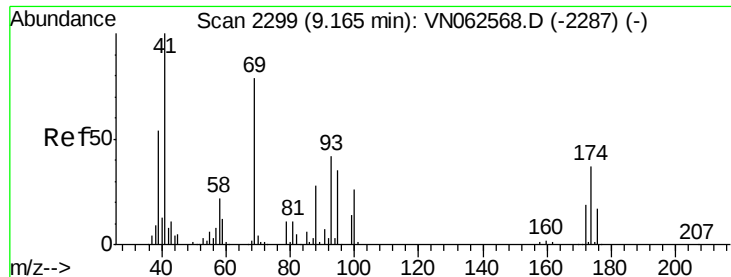
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN062581.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN062581.D (-2181) (-)

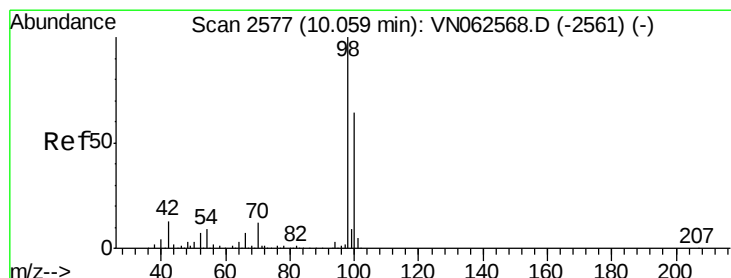
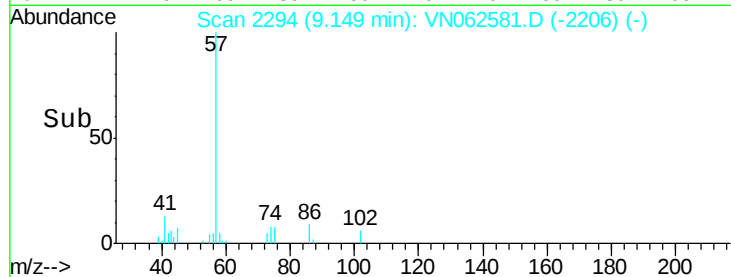
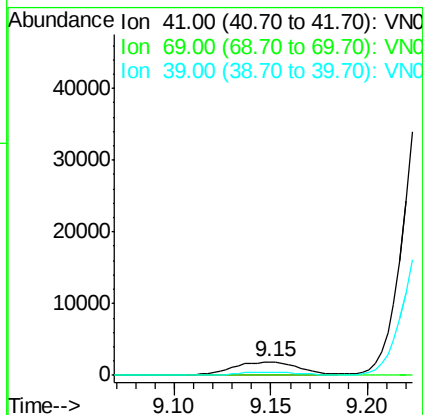
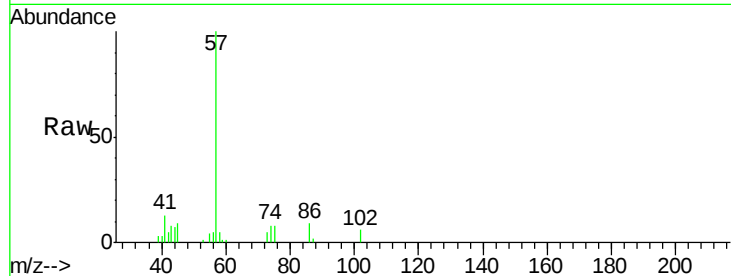




#48
Methvl methacrylate
Concen: 1.620 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN062581.D
Acq: 21 Jul 2020 19:16

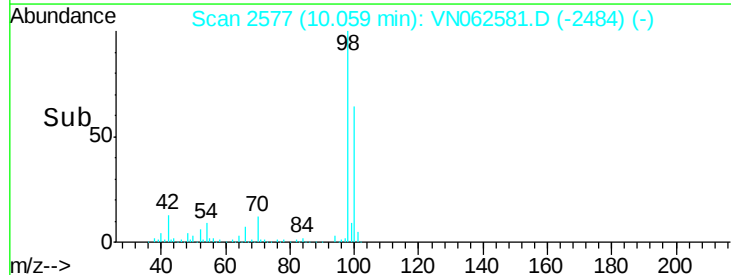
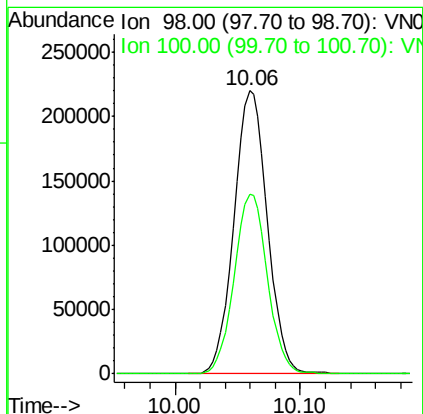
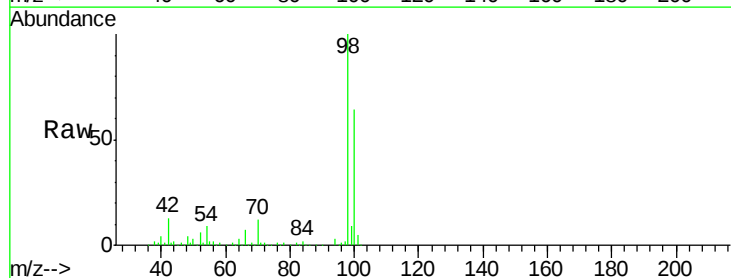
Instrument :
MSVOA_N
ClientSampleId :
PB130329ZHE#15

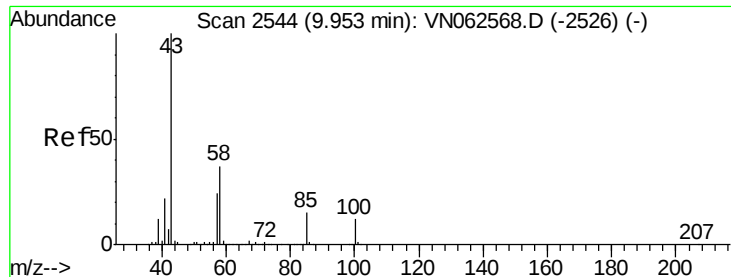
Tot Ion: 41 Resp: 4413
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 43.5 65.3#



#50
Toluene-d8
Concen: 50.158 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062581.D
Acq: 21 Jul 2020 19:16

Tgt Ion: 98 Resp: 406738
Ion Ratio Lower Upper
98 100
100 63.4 50.9 76.3

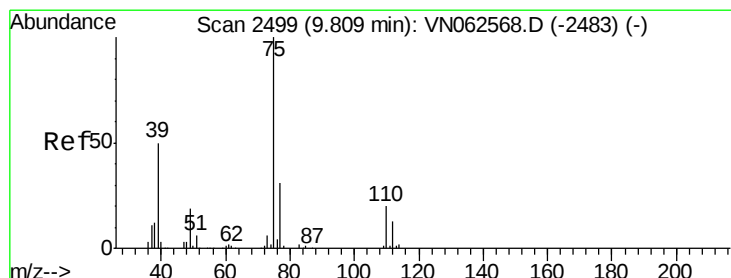
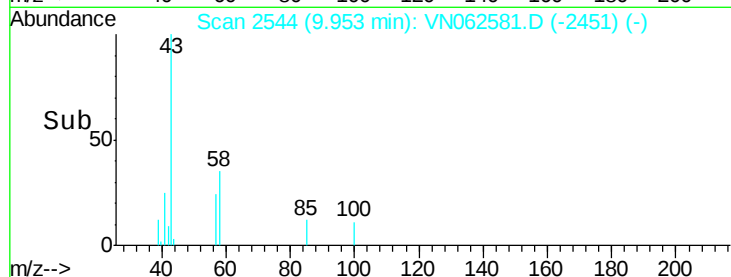
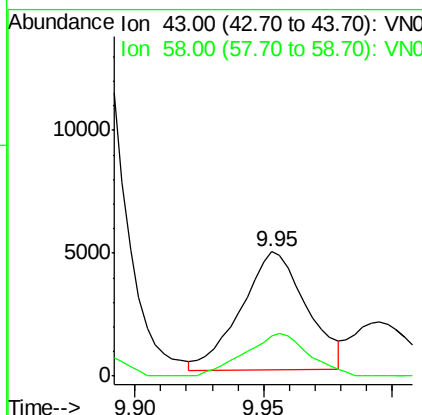
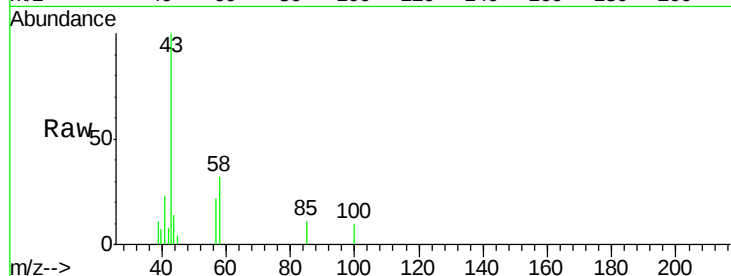




#51
 4-Methyl-2-Pentanone
 Concen: 2.470 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. -0.00 min
 Lab File: VN062581.D
 Acq: 21 Jul 2020 19:16

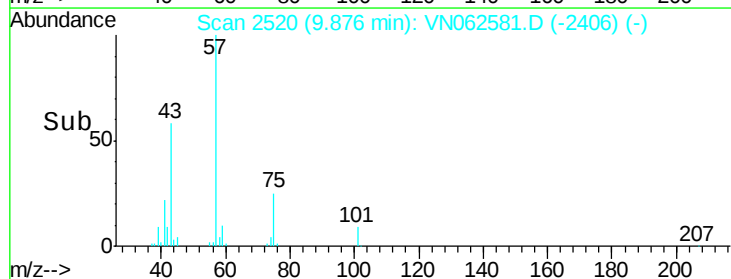
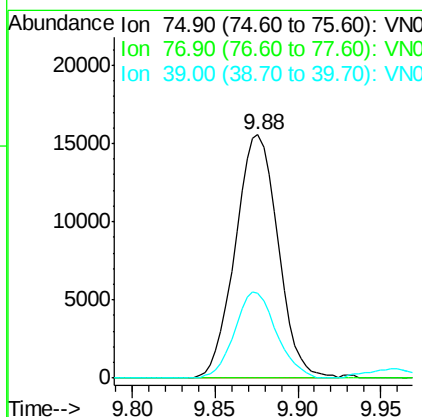
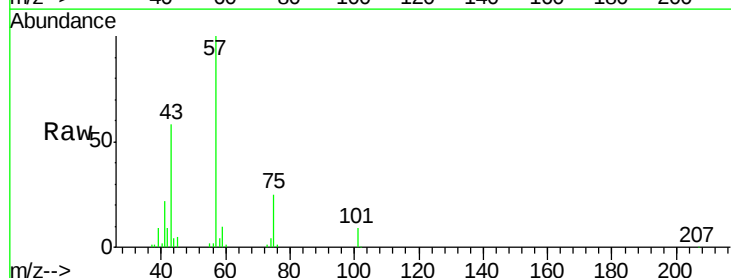
Instrument :
 MSVOA_N
 ClientSampleID :
 PB130329ZHE#15

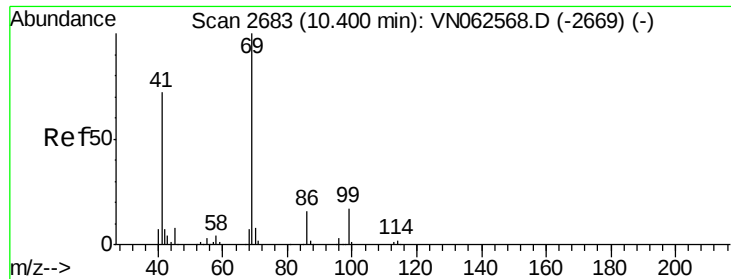
Tot Ion: 43 Resp: 8471
 Ion Ratio Lower Upper
 43 100
 58 35.1 29.8 44.6



#54
 cis-1,3-Dichloropropene
 Concen: 6.657 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062581.D
 Acq: 21 Jul 2020 19:16

Tgt Ion: 75 Resp: 27914
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 34.7 39.8 59.8#





#56

Ethyl methacrylate

Concen: 2.071 ug/l

RT: 10.51 min Scan# 2717

Delta R.T. 0.11 min

Lab File: VN062581.D

Acq: 21 Jul 2020 19:16

Instrument :

MSVOA_N

ClientSampleId :

PB130329ZHE#15

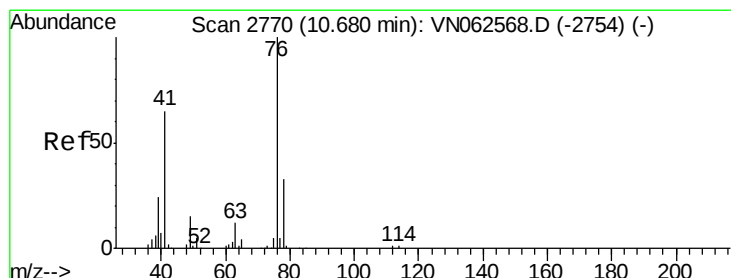
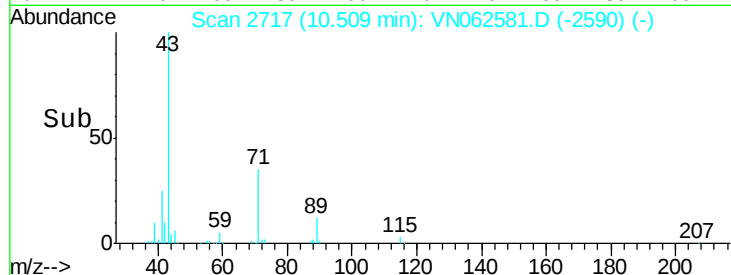
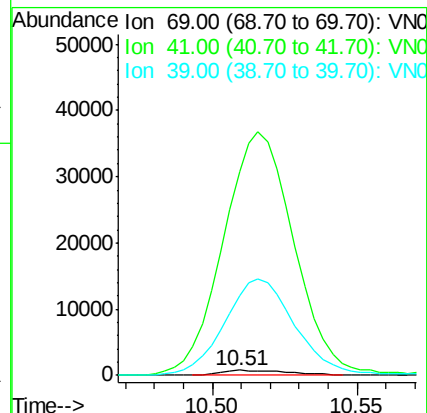
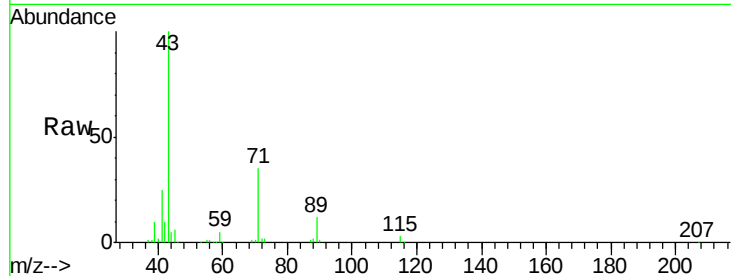
Tot Ion: 69 Resp: 1264

Ion Ratio Lower Upper

69 100

41 4942.7 57.2 85.8#

39 1947.7 28.6 43.0#



#57

1,3-Dichloropropane

Concen: 1.120 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062581.D

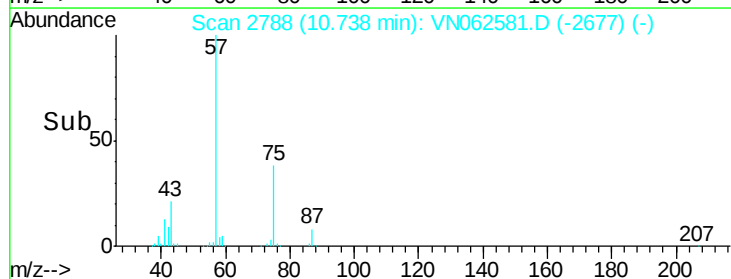
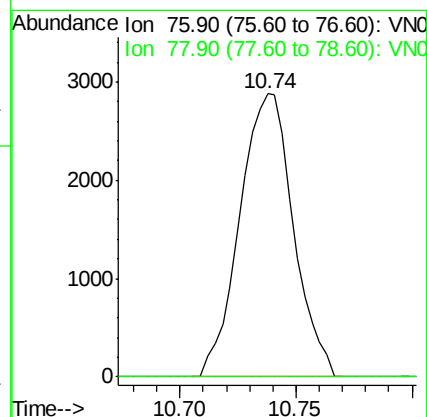
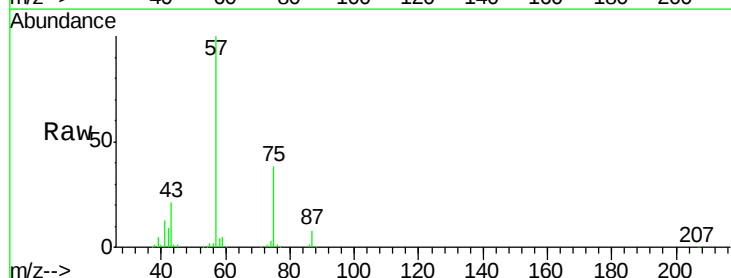
Acq: 21 Jul 2020 19:16

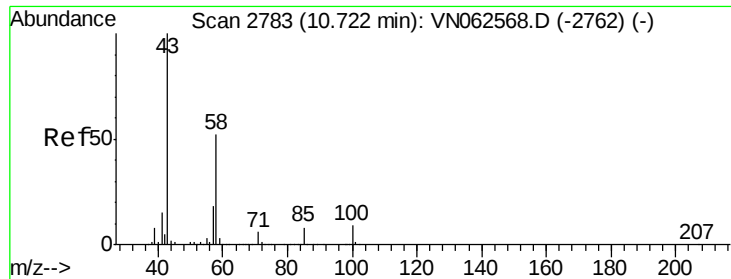
Tgt Ion: 76 Resp: 4613

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#

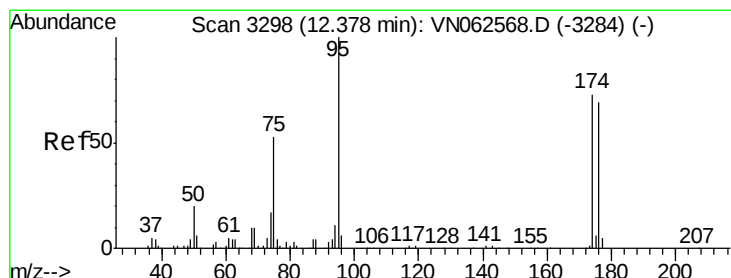
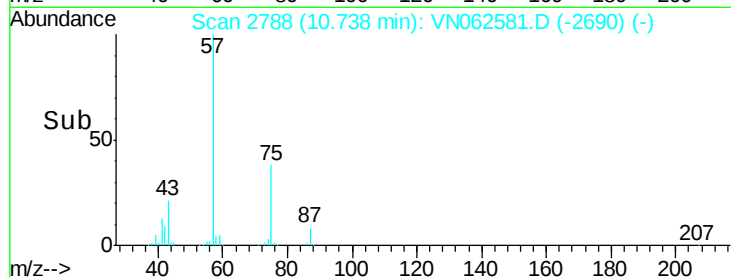
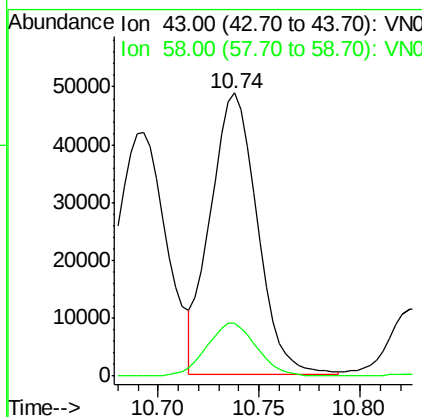
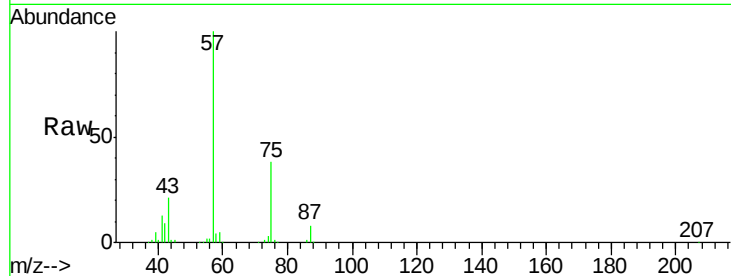




#59
2-Hexanone
Concen: 32.352 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062581.D
Acq: 21 Jul 2020 19:16

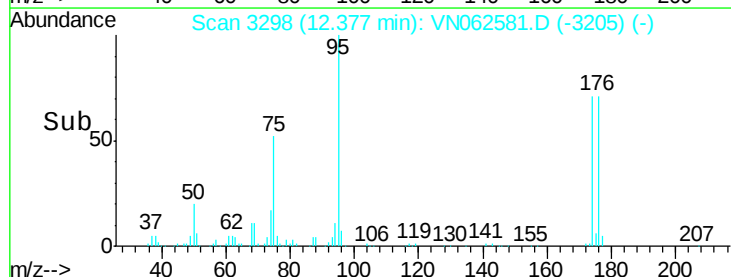
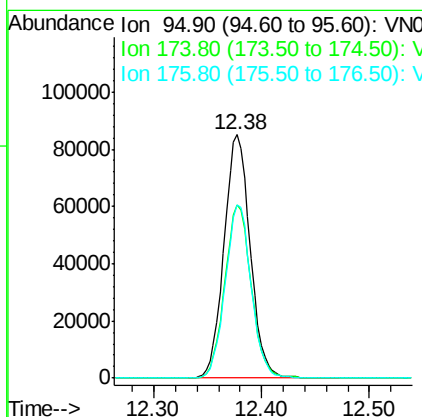
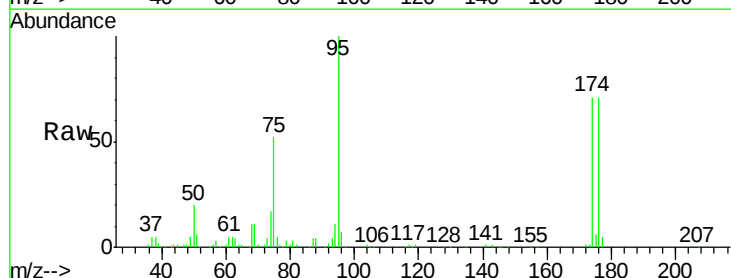
Instrument :
MSVOA_N
ClientSampleId :
PB130329ZHE#15

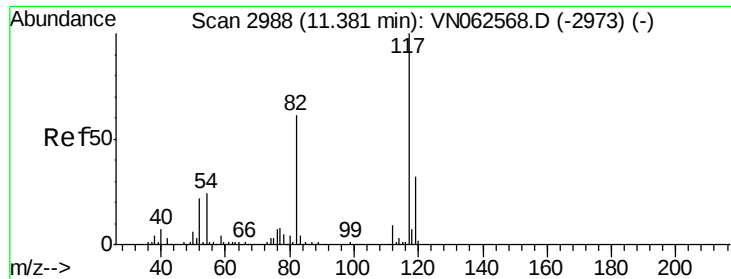
Tot Ion: 43 Resp: 78884
Ion Ratio Lower Upper
43 100
58 19.8 26.0 78.0#



#62
4-Bromofluorobenzene
Concen: 48.343 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062581.D
Acq: 21 Jul 2020 19:16

Tgt Ion: 95 Resp: 143340
Ion Ratio Lower Upper
95 100
174 71.9 0.0 144.6
176 70.5 0.0 139.4

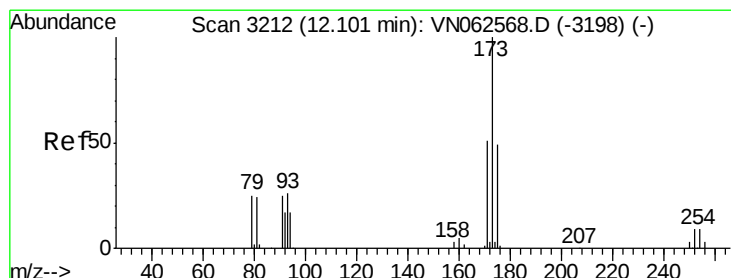
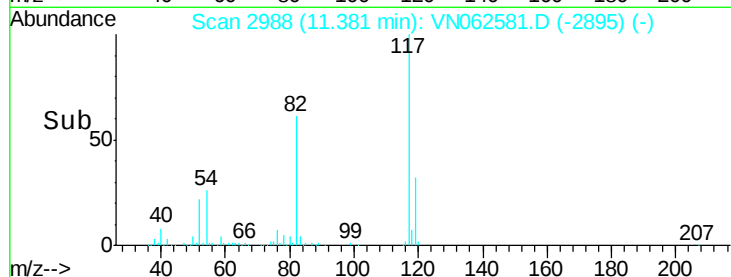
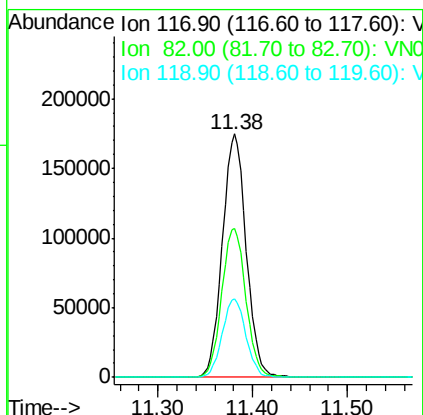
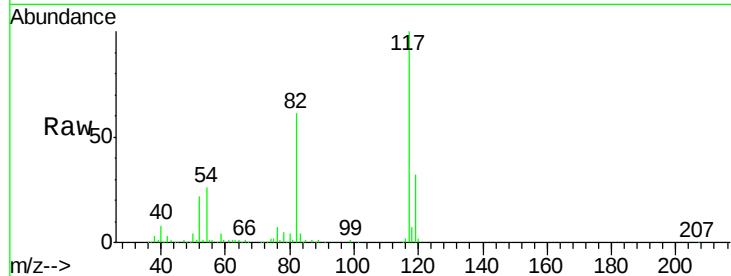




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062581.D
Acq: 21 Jul 2020 19:16

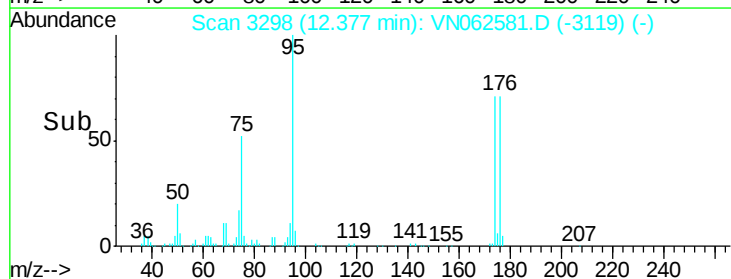
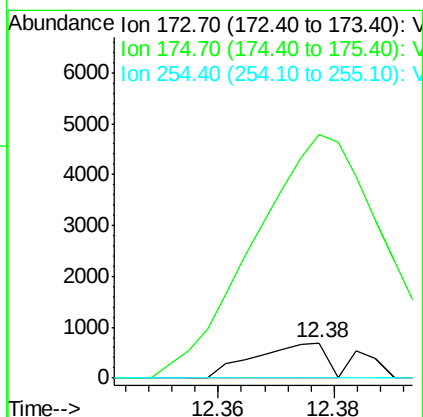
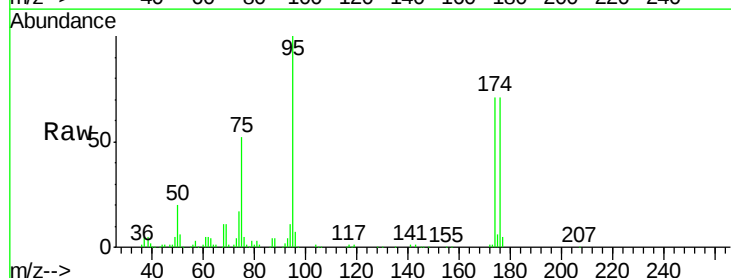
Instrument :
MSVOA_N
ClientSampleId :
PB130329ZHE#15

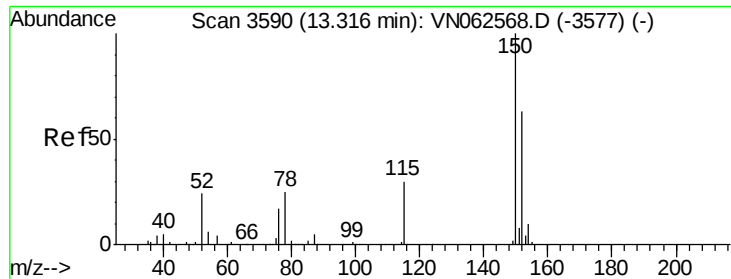
Tot Ion:117 Resp: 305934
Ion Ratio Lower Upper
117 100
82 61.2 49.0 73.6
119 32.5 25.4 38.2



#71
Bromoform
Concen: 0.322 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062581.D
Acq: 21 Jul 2020 19:16

Tgt Ion:173 Resp: 583
Ion Ratio Lower Upper
173 100
175 1105.7 24.1 72.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062581.D

Acq: 21 Jul 2020 19:16

Instrument :

MSVOA_N

ClientSampleId :

PB130329ZHE#15

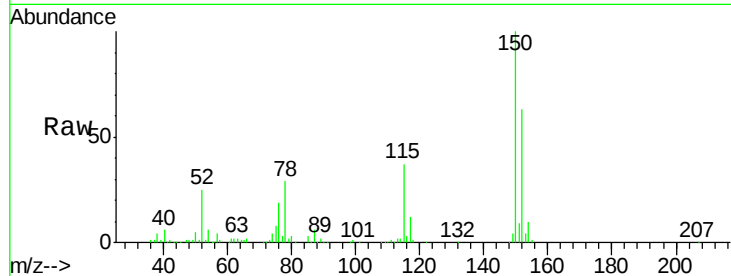
Tot Ion:152 Resp: 107271

Ion Ratio Lower Upper

152 100

115 61.4 31.8 95.4

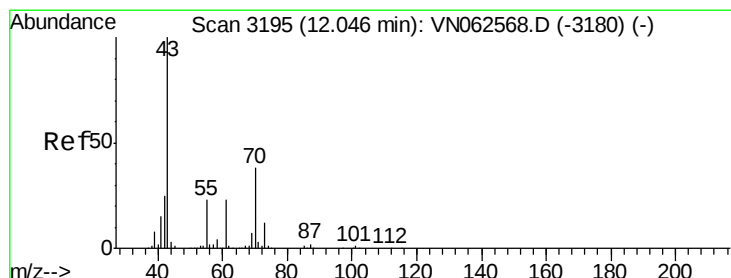
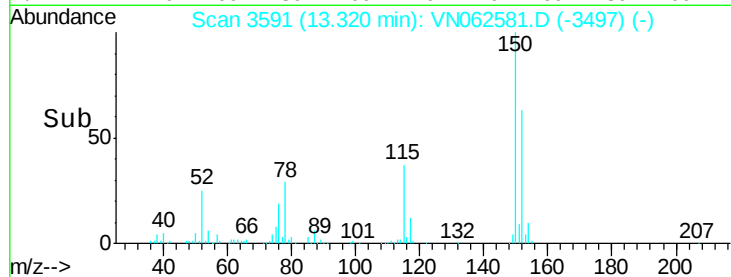
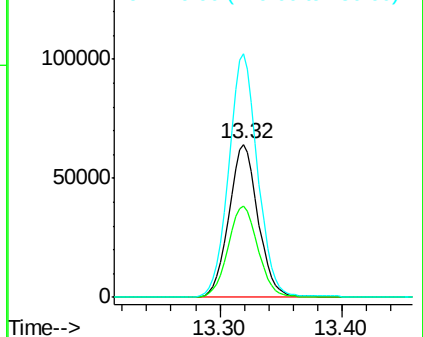
150 157.6 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.682 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062581.D

Acq: 21 Jul 2020 19:16

Tgt Ion: 43 Resp: 2582

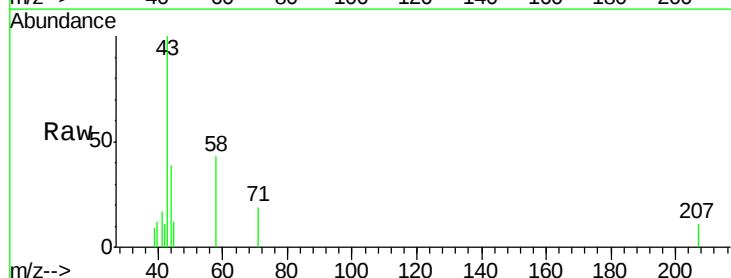
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 3.9 19.0 28.6#

61 0.0 18.4 27.6#

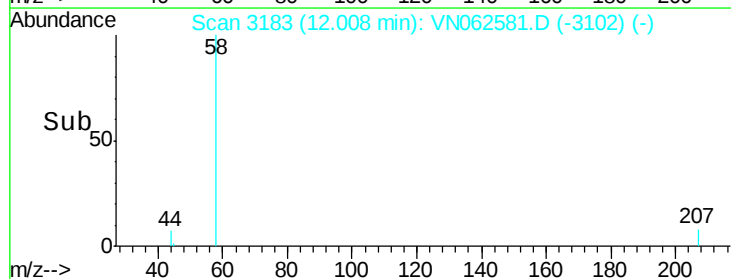
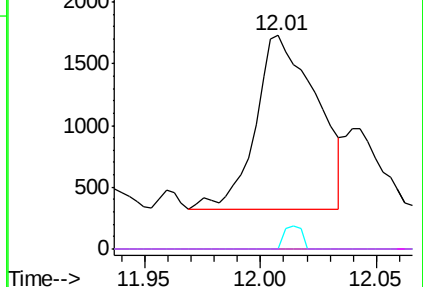


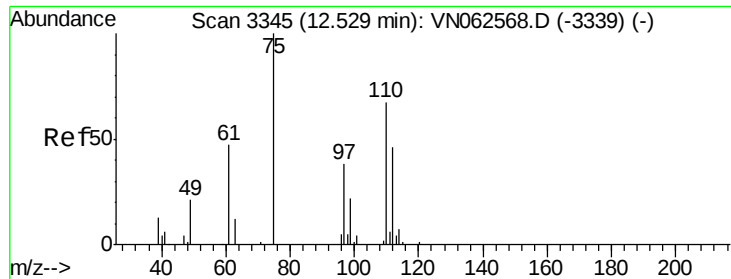
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

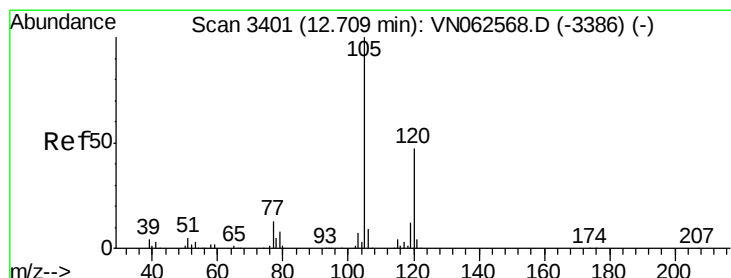
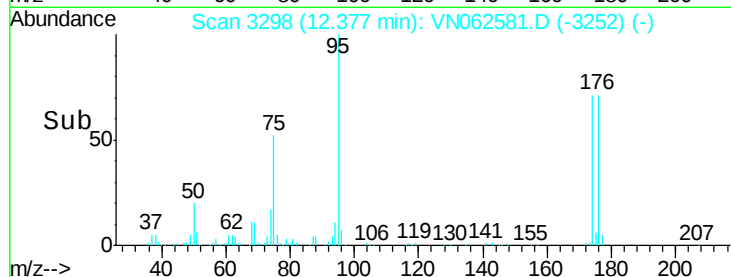
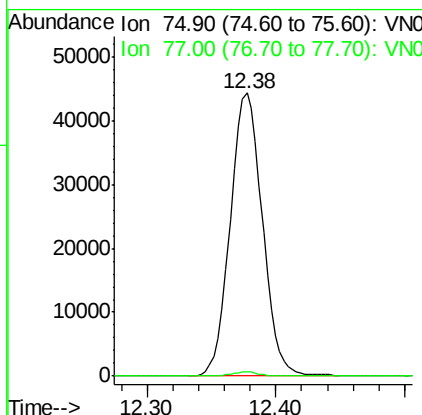
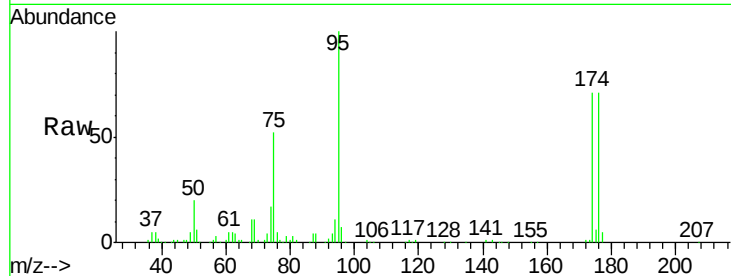




#76
 1,2,3-Trichloropropane
 Concen: 28.129 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062581.D
 Acq: 21 Jul 2020 19:16

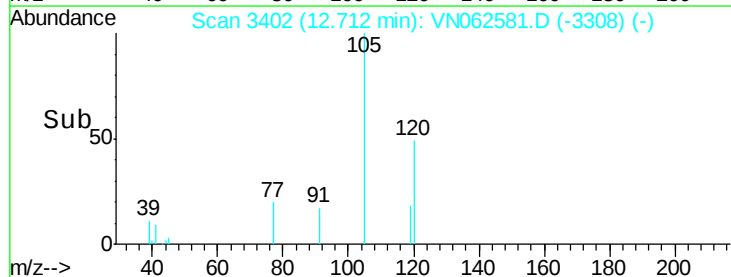
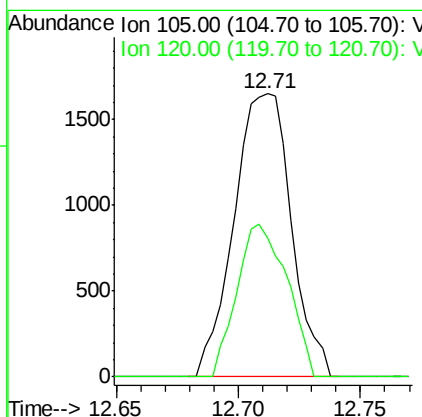
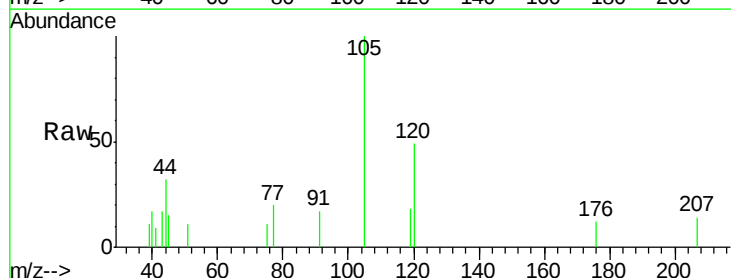
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130329ZHE#15

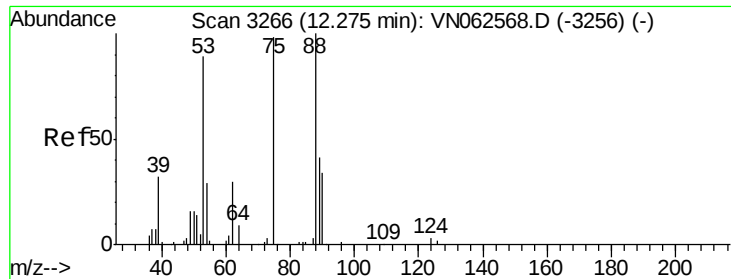
Tot Ion: 75 Resp: 76803
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.382 ug/l
 RT: 12.71 min Scan# 3402
 Delta R.T. 0.00 min
 Lab File: VN062581.D
 Acq: 21 Jul 2020 19:16

Tgt Ion: 105 Resp: 2691
 Ion Ratio Lower Upper
 105 100
 120 47.1 23.2 69.6





#81

trans-1,4-Dichloro-2-butene

Concen: 78.303 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062581.D

Acq: 21 Jul 2020 19:16

Instrument :

MSVOA_N

ClientSampleId :

PB130329ZHE#15

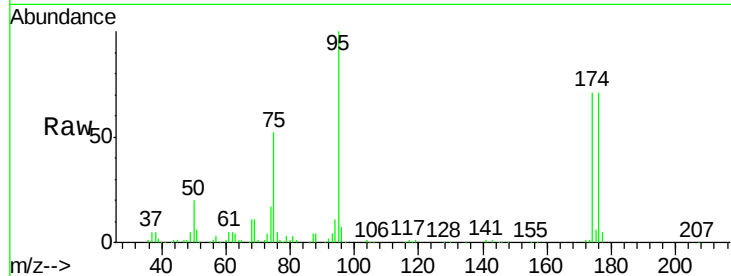
Tot Ion: 75 Resp: 76803

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

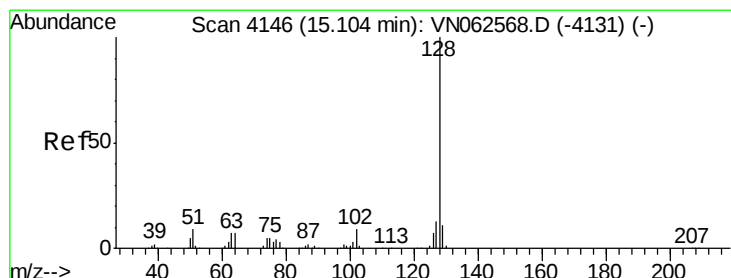
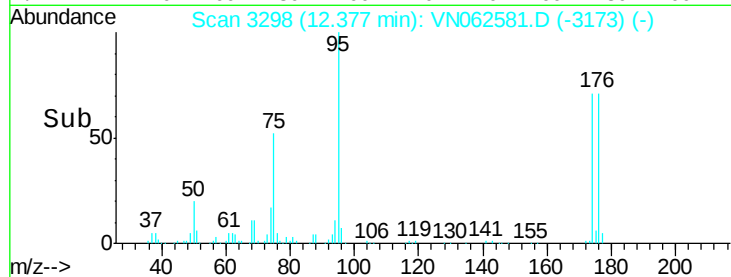
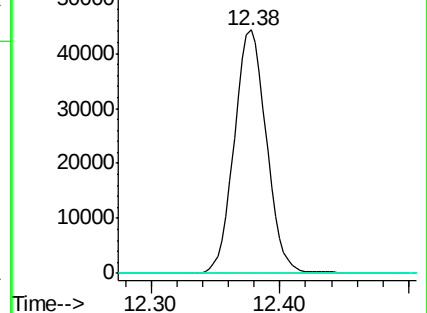
89 0.0 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VN062581.D (-3173) (-)

Ion 53.00 (52.70 to 53.70): VN062581.D (-3173) (-)

Ion 88.90 (88.60 to 89.60): VN062581.D (-3173) (-)



#95

Naphthalene

Concen: 3.816 ug/l

RT: 15.11 min Scan# 4149

Delta R.T. 0.01 min

Lab File: VN062581.D

Acq: 21 Jul 2020 19:16

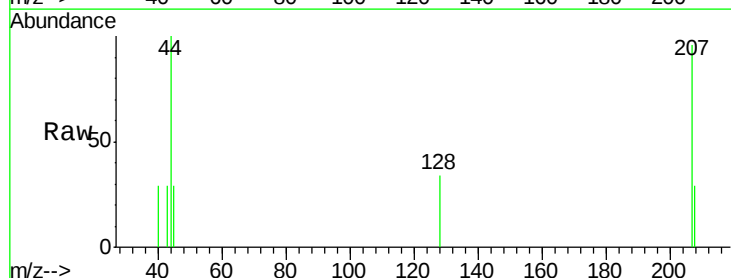
Tgt Ion: 128 Resp: 284

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN062581.D (-4053) (-)

Ion 127.00 (126.70 to 127.70): VN062581.D (-4053) (-)

Ion 129.00 (128.70 to 129.70): VN062581.D (-4053) (-)

