

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063834.D
 Acq On : 2 Oct 2020 20:20
 Operator : JC/MD
 Sample : PB132030ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132030ZHE#13

Quant Time: Oct 05 04:19:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	217566	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	415962	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	430586	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	179769	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	195027	54.26	ug/l	0.00
Spiked Amount			Recovery	=	108.52%	
35) Dibromofluoromethane	7.55	113	136070	47.14	ug/l	0.00
Spiked Amount			Recovery	=	94.28%	
50) Toluene-d8	10.06	98	531439	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
62) 4-Bromofluorobenzene	12.38	95	209382	50.91	ug/l	0.00
Spiked Amount			Recovery	=	101.82%	

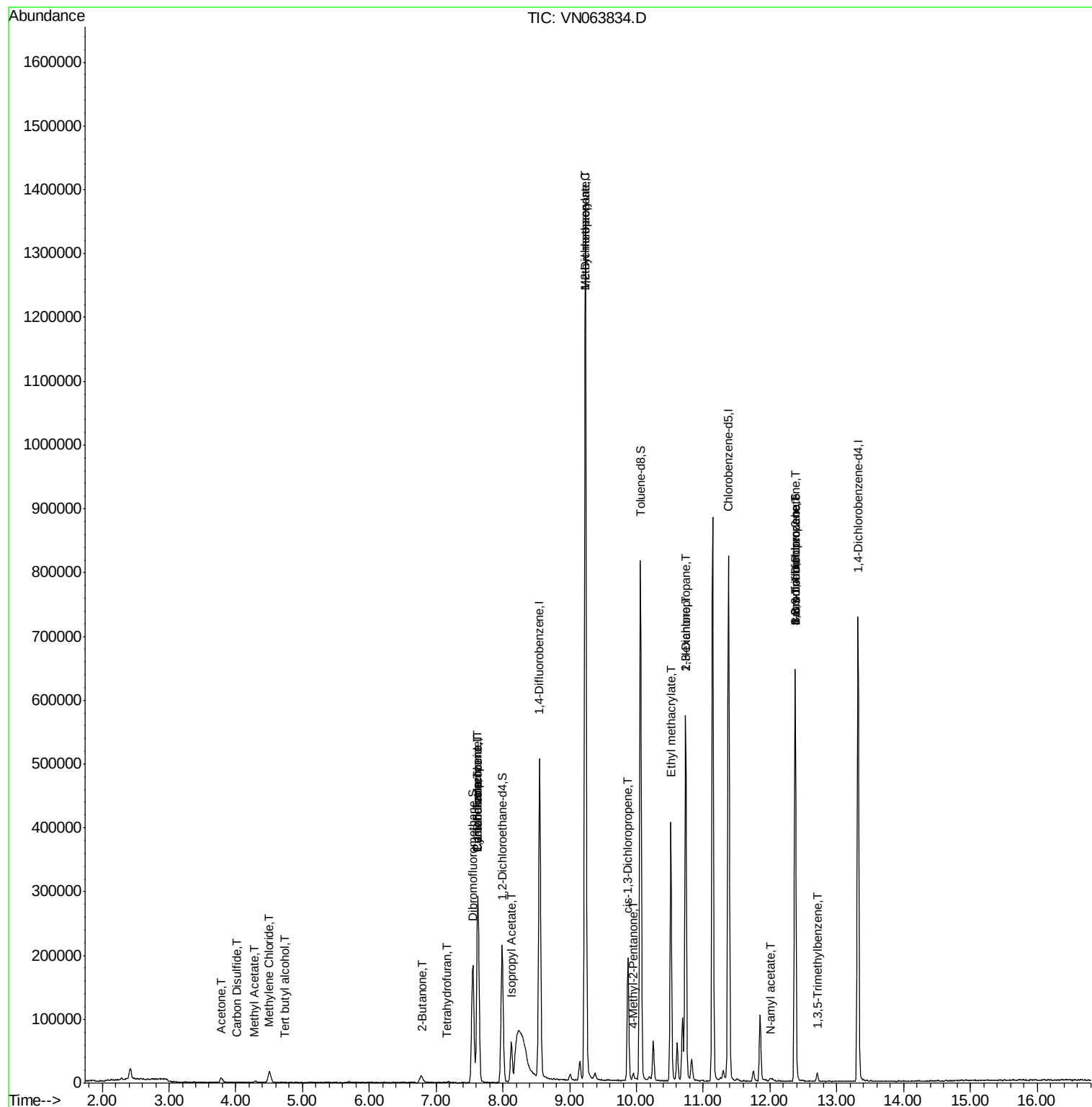
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	185	0.466	ug/l #	1
16) Acetone	3.78	43	11859	10.718	ug/l #	84
17) Carbon Disulfide	4.01	76	96	0.717	ug/l #	76
18) Methyl Acetate	4.28	43	1998	0.695	ug/l #	89
20) Methylene Chloride	4.51	84	11022	4.439	ug/l	90
25) 2-Butanone	6.79	43	2805	1.788	ug/l	93
29) Tetrahydrofuran	7.16	42	379	0.360	ug/l #	49
31) Cyclohexane	7.62	56	6290	1.507	ug/l #	29
36) 1,1-Dichloropropene	7.62	75	19957	4.736	ug/l #	52
38) Carbon Tetrachloride	7.63	117	24624	5.211	ug/l #	15
43) Isopropyl Acetate	8.13	43	75719	10.964	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1713	0.527	ug/l #	44
48) Methyl methacrylate	9.23	41	141832	41.569	ug/l #	47
51) 4-Methyl-2-Pentanone	9.96	43	7071	1.745	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	29903	5.772	ug/l #	65
56) Ethyl methacrylate	10.51	69	1859	0.439	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5923	1.173	ug/l #	43
59) 2-Hexanone	10.74	43	90272	29.985	ug/l #	54
71) Bromoform	12.38	173	2387	0.922	ug/l #	1
74) N-amyl acetate	12.01	43	3589	2.779	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	118791	29.976	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	6038	0.549	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	118791	86.337	ug/l #	6

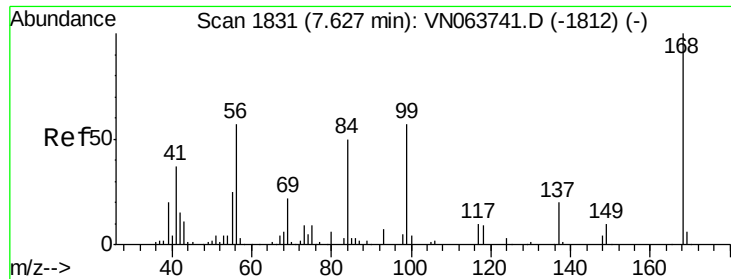
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063834.D

Acq: 2 Oct 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

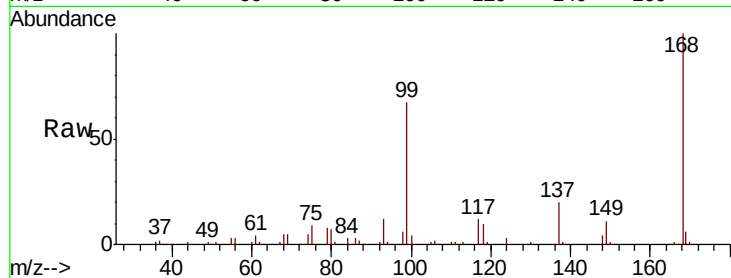
PB132030ZHE#13

Tot Ion:168 Resp: 217566

Ion Ratio Lower Upper

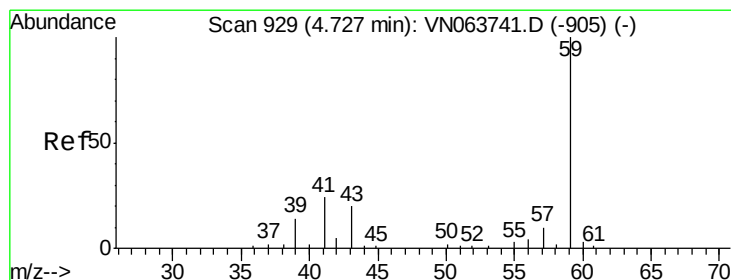
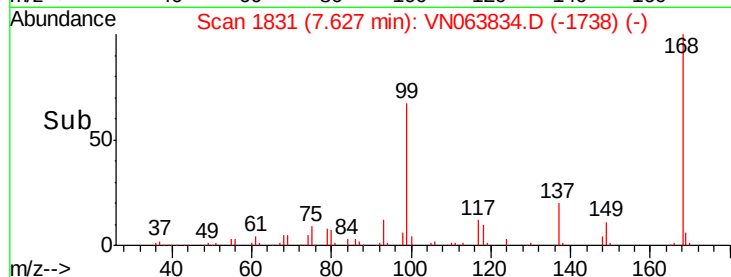
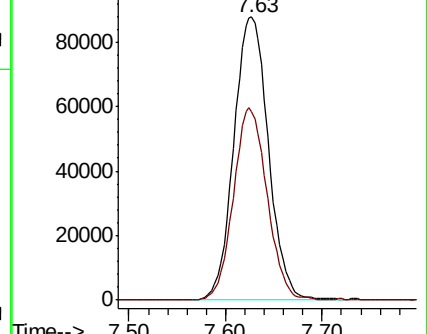
168 100

99 66.8 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.466 ug/l

RT: 4.72 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN063834.D

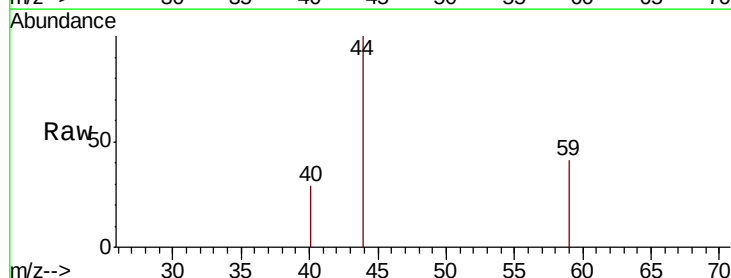
Acq: 2 Oct 2020 20:20

Tgt Ion: 59 Resp: 185

Ion Ratio Lower Upper

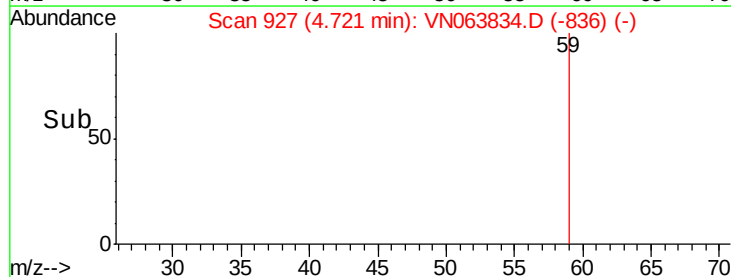
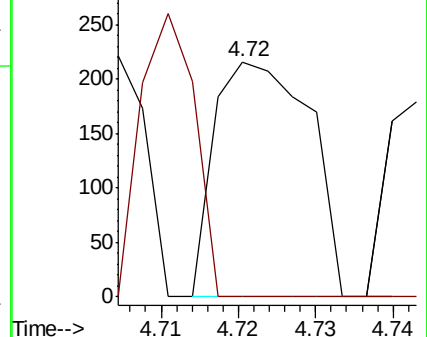
59 100

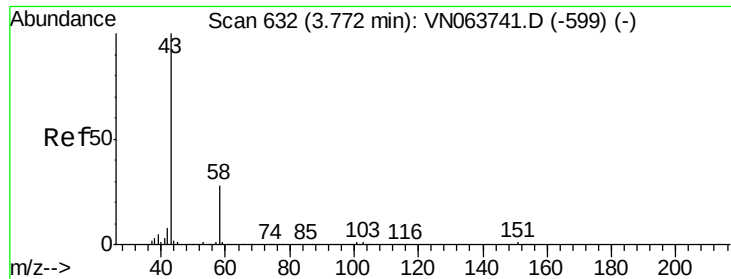
57 68.1 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 10.718 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063834.D

Acq: 2 Oct 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

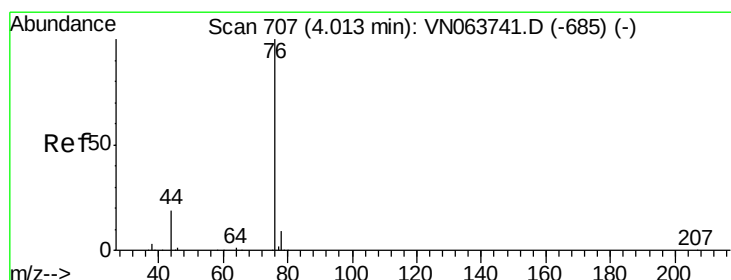
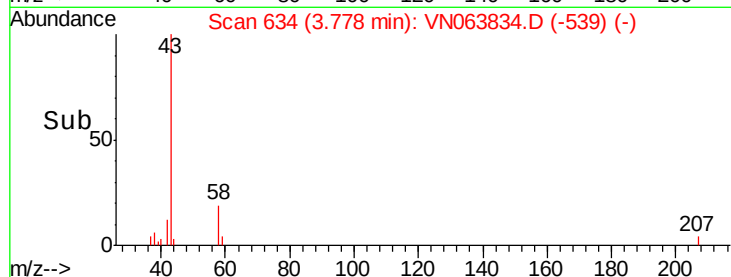
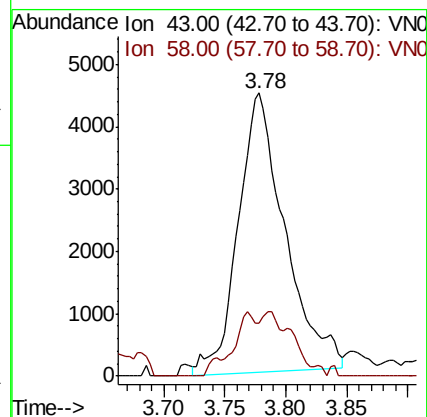
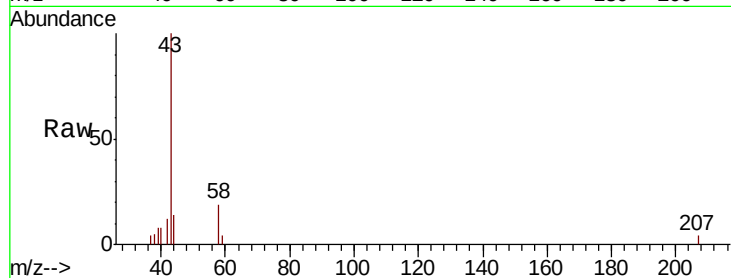
PB132030ZHE#13

Tot Ion: 43 Resp: 11859

Ion Ratio Lower Upper

43 100

58 19.4 22.3 33.5#



#17

Carbon Disulfide

Concen: 0.717 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN063834.D

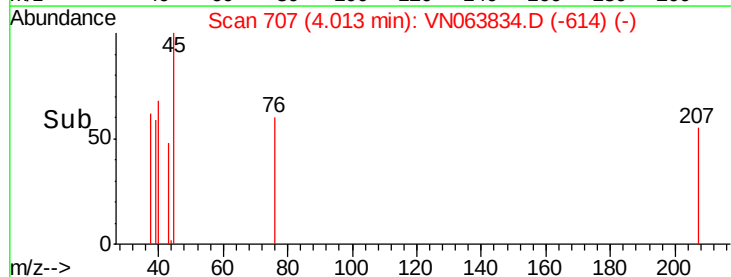
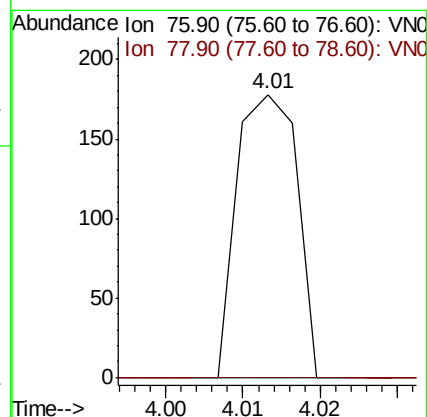
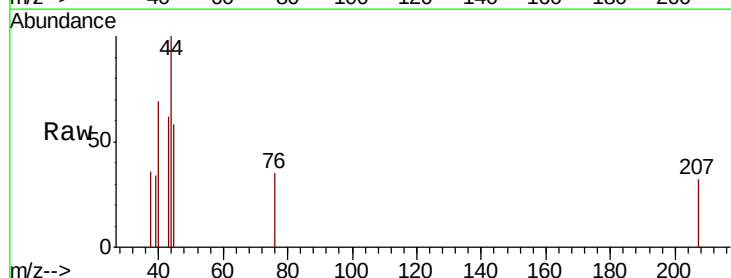
Acq: 2 Oct 2020 20:20

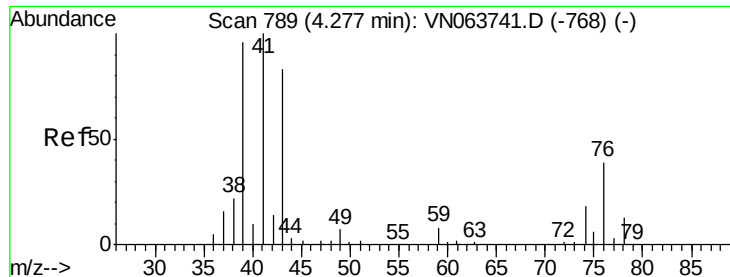
Tgt Ion: 76 Resp: 96

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#

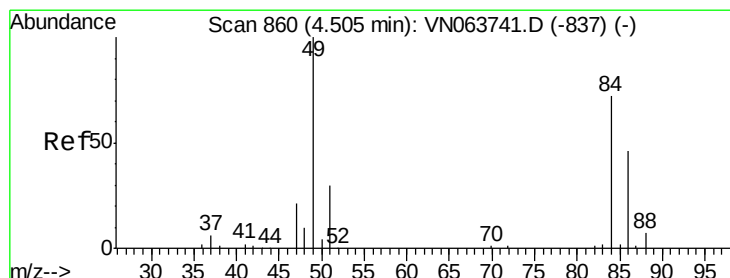
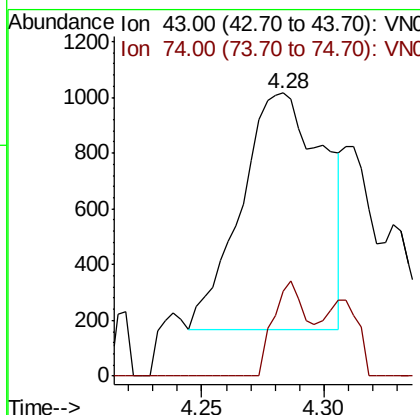
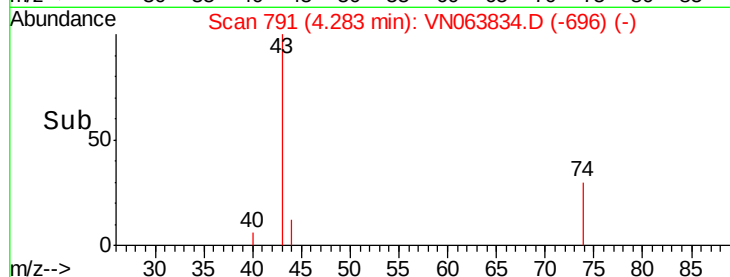
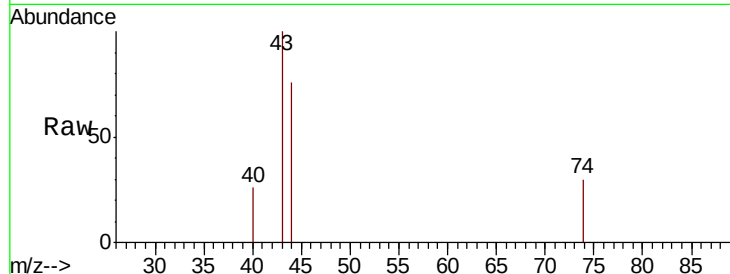




#18
Methyl Acetate
Concen: 0.695 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN063834.D
Acq: 2 Oct 2020 20:20

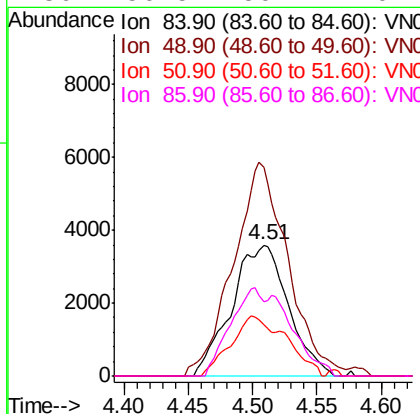
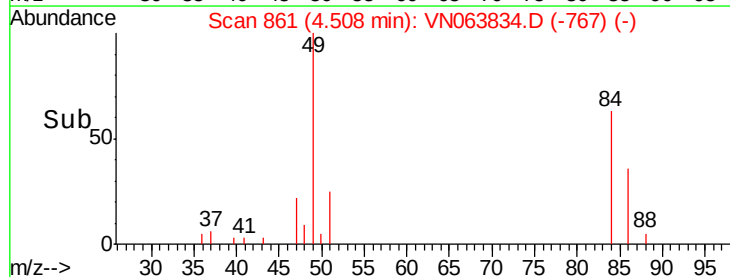
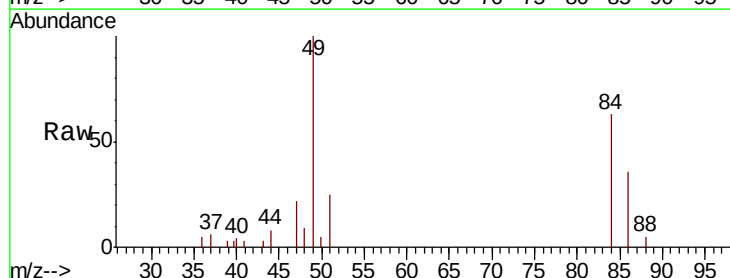
Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#13

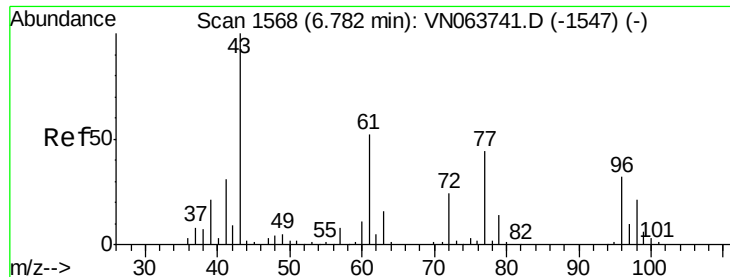
Tot Ion: 43 Resp: 1998
Ion Ratio Lower Upper
43 100
74 16.4 17.4 26.2#



#20
Methylene Chloride
Concen: 4.439 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN063834.D
Acq: 2 Oct 2020 20:20

Tgt Ion: 84 Resp: 11022
Ion Ratio Lower Upper
84 100
49 152.4 110.4 165.6
51 39.2 33.3 49.9
86 56.5 50.7 76.1





#25

2-Butanone

Concen: 1.788 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. 0.01 min

Lab File: VN063834.D

Acq: 2 Oct 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

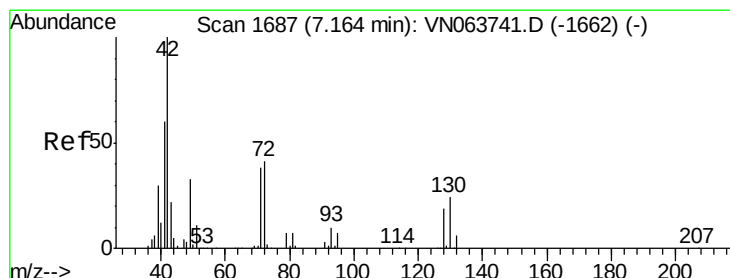
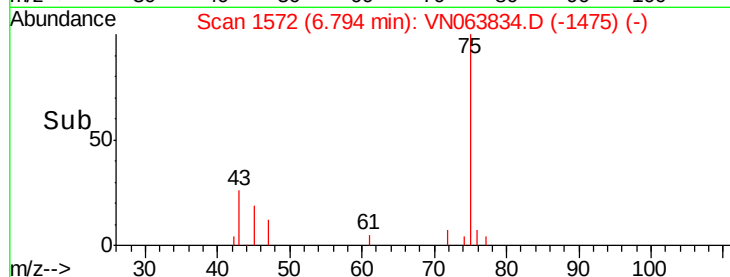
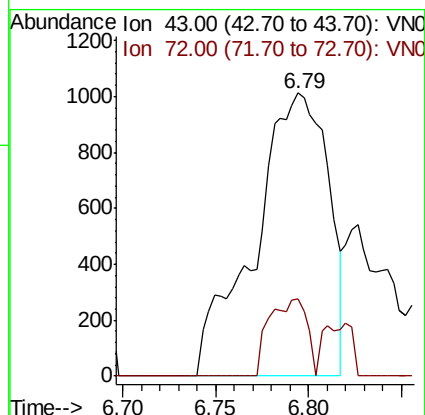
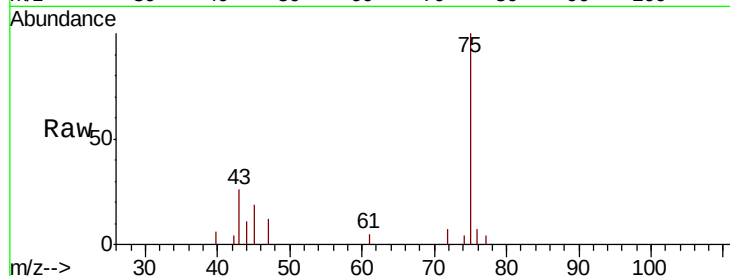
PB132030ZHE#13

Tot Ion: 43 Resp: 2805

Ion Ratio Lower Upper

43 100

72 27.5 19.3 28.9



#29

Tetrahydrofuran

Concen: 0.360 ug/l

RT: 7.16 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VN063834.D

Acq: 2 Oct 2020 20:20

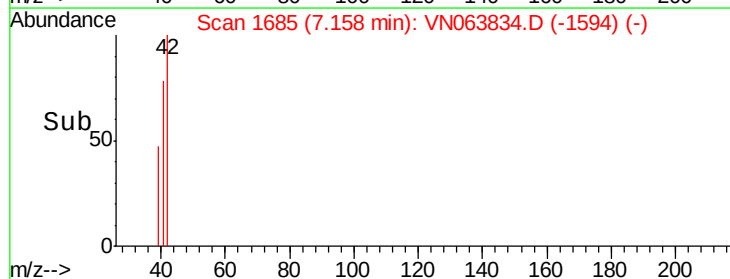
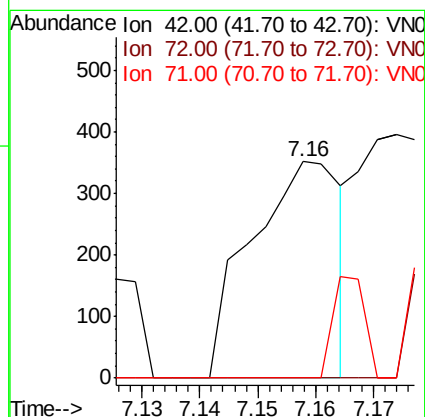
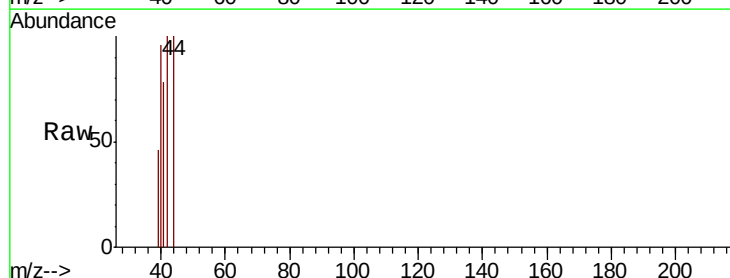
Tgt Ion: 42 Resp: 379

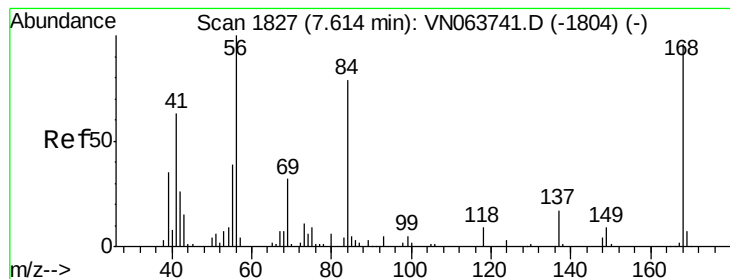
Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

71 16.6 30.6 45.8#





#31

Cyclohexane

Concen: 1.507 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063834.D

Acq: 2 Oct 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#13

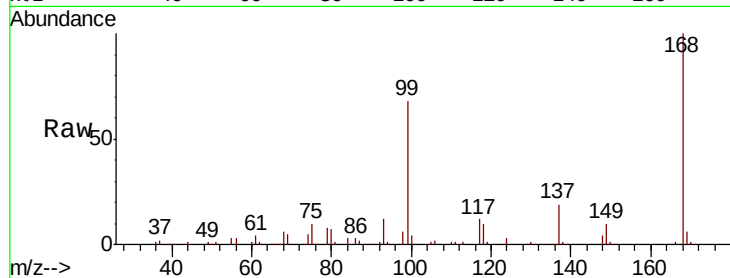
Tot Ion: 56 Resp: 6290

Ion Ratio Lower Upper

56 100

69 142.8 25.4 38.2#

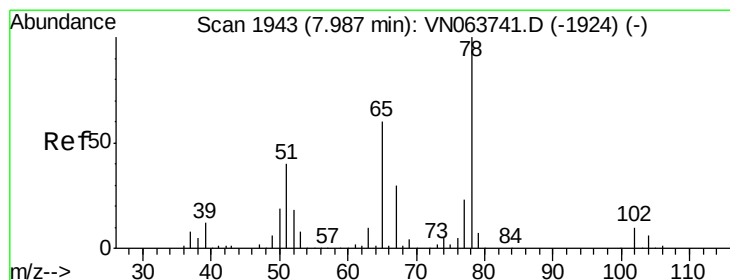
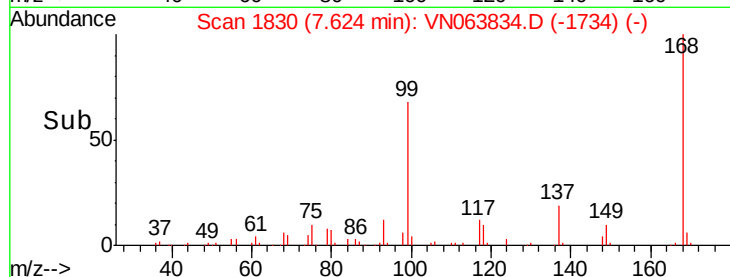
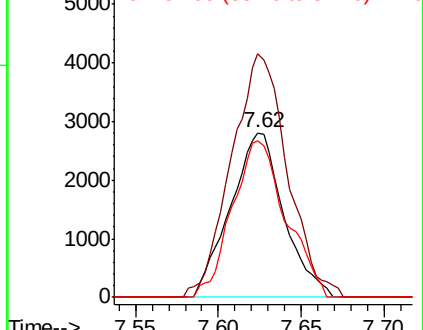
84 95.5 63.3 94.9#



Abundance Ion 56.00 (55.70 to 56.70): VN063834.D (-1830) (-)

Ion 69.00 (68.70 to 69.70): VN063834.D (-1830) (-)

Ion 84.00 (83.70 to 84.70): VN063834.D (-1830) (-)



#33

1,2-Dichloroethane-d4

Concen: 54.260 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063834.D

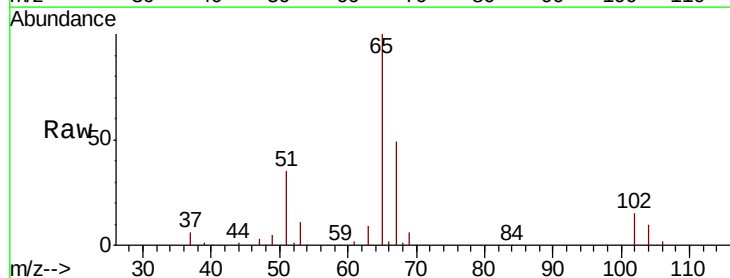
Acq: 2 Oct 2020 20:20

Tgt Ion: 65 Resp: 195027

Ion Ratio Lower Upper

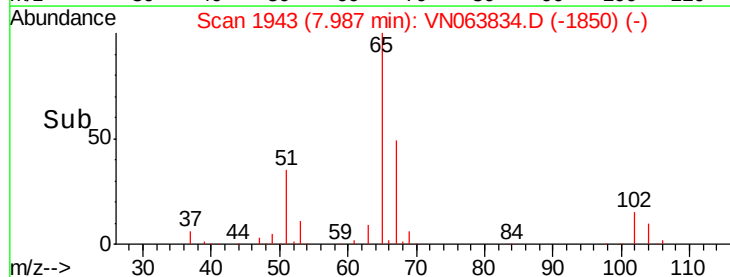
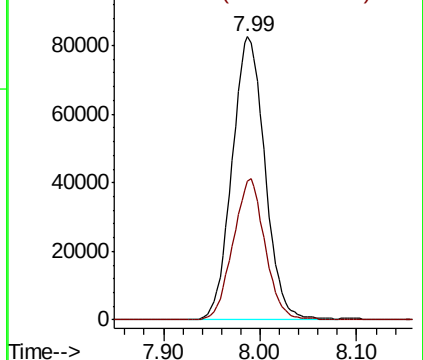
65 100

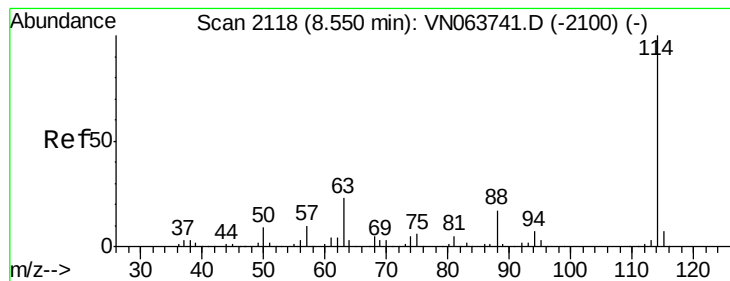
67 48.4 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN063834.D (-1943) (-)

Ion 66.90 (66.60 to 67.60): VN063834.D (-1943) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063834.D

Acq: 2 Oct 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#13

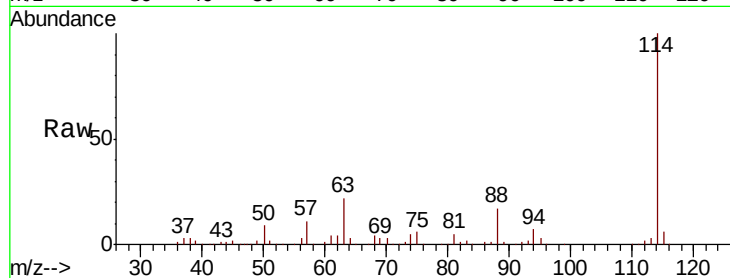
Tot Ion:114 Resp: 415962

Ion Ratio Lower Upper

114 100

63 22.3 0.0 45.0

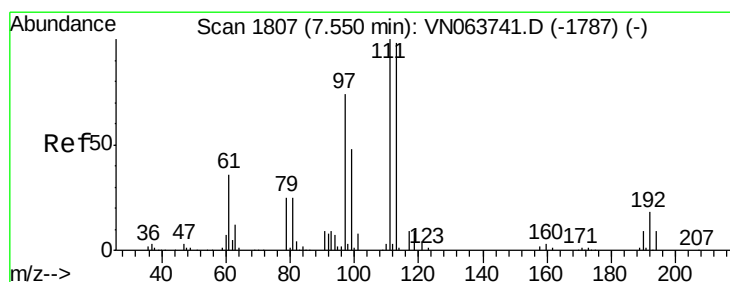
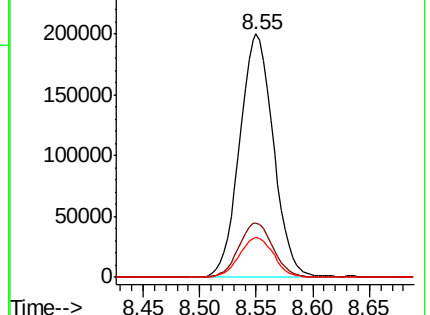
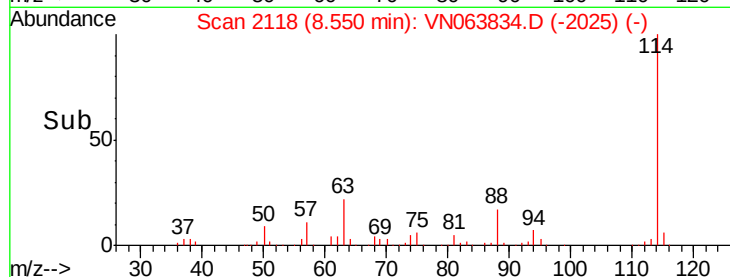
88 16.5 0.0 34.0



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: 47.144 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063834.D

Acq: 2 Oct 2020 20:20

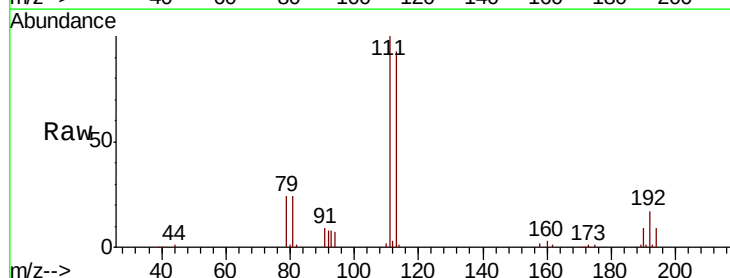
Tgt Ion:113 Resp: 136070

Ion Ratio Lower Upper

113 100

111 103.8 81.8 122.8

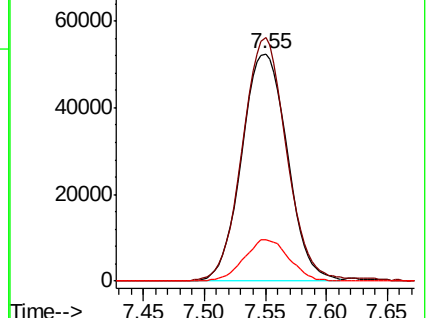
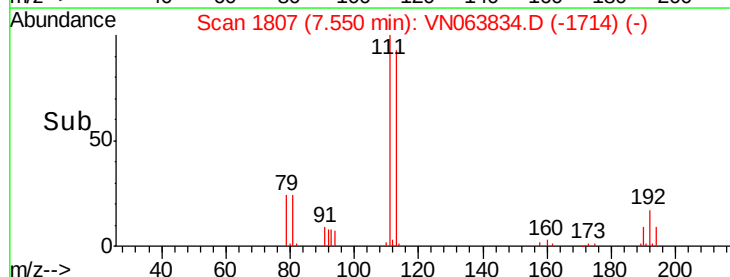
192 17.9 14.2 21.2

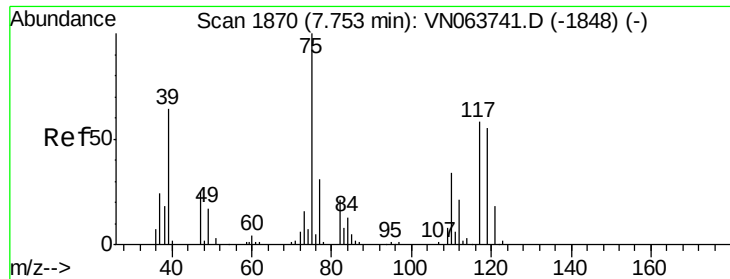


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

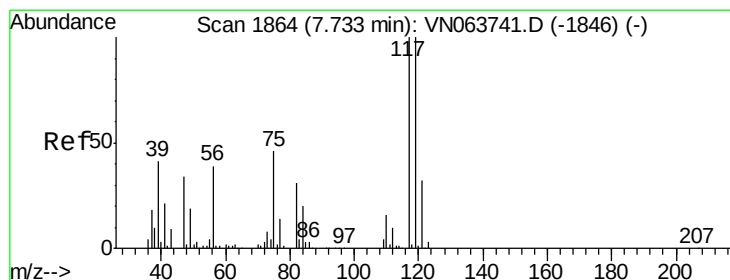
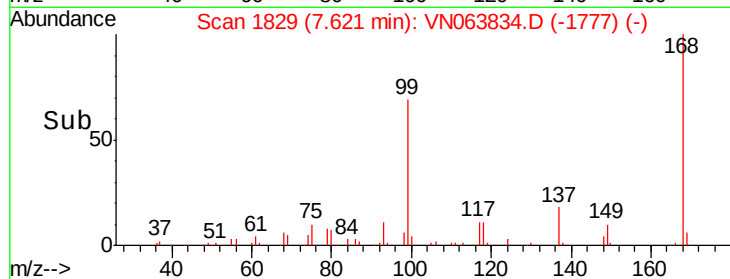
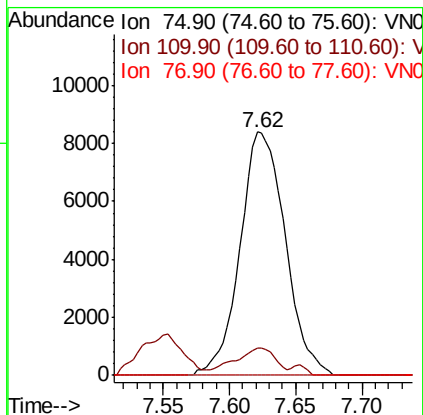
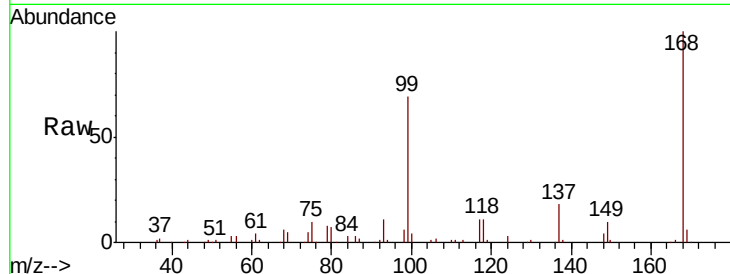




#36
 1,1-Dichloropropene
 Concen: 4.736 ug/l
 RT: 7.62 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN063834.D
 Acq: 2 Oct 2020 20:20

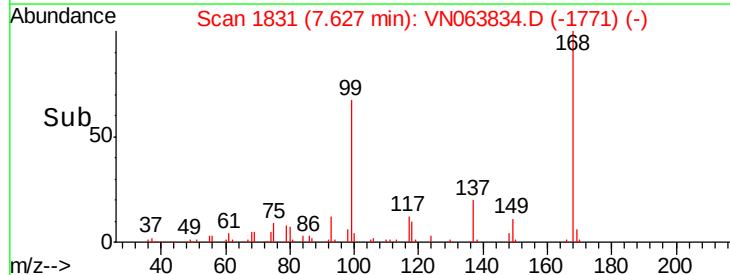
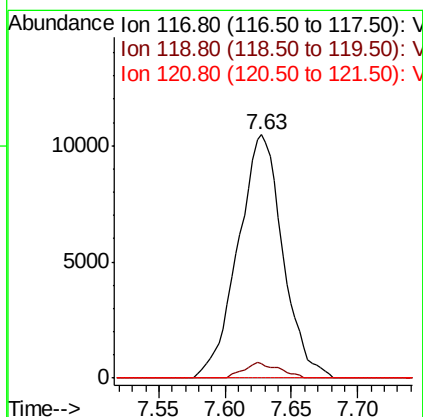
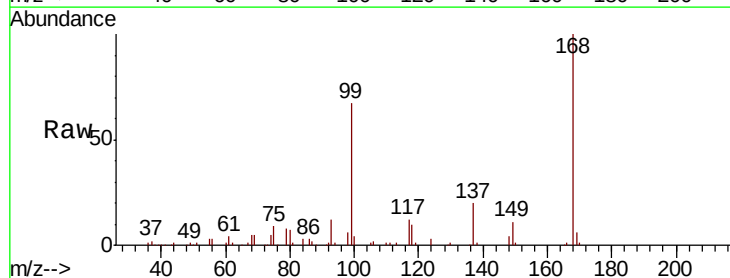
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132030ZHE#13

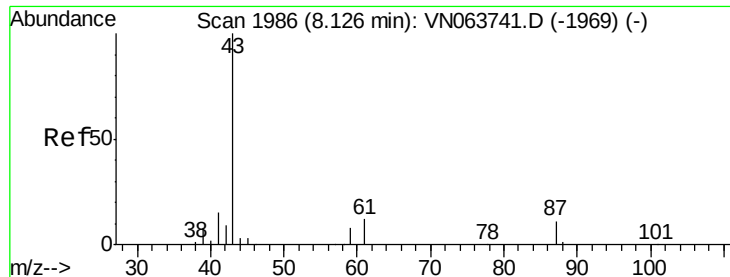
Tot Ion: 75 Resp: 19957
 Ion Ratio Lower Upper
 75 100
 110 10.1 16.9 50.6#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 5.211 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063834.D
 Acq: 2 Oct 2020 20:20

Tgt Ion: 117 Resp: 24624
 Ion Ratio Lower Upper
 117 100
 119 6.0 80.1 120.1#
 121 0.0 25.7 38.5#





#43

Isopropyl Acetate

Concen: 10.964 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063834.D

Acq: 2 Oct 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#13

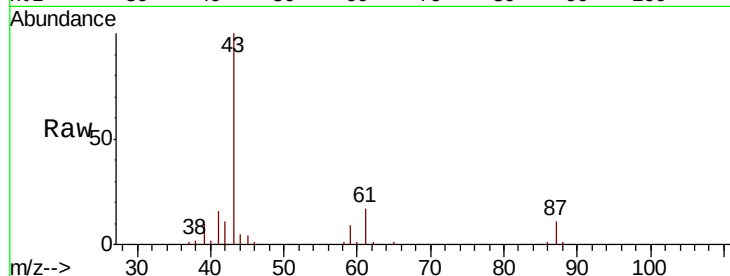
Tot Ion: 43 Resp: 75719

Ion Ratio Lower Upper

43 100

61 17.2 14.2 21.4

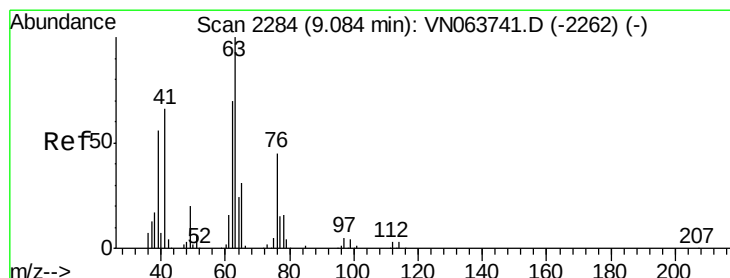
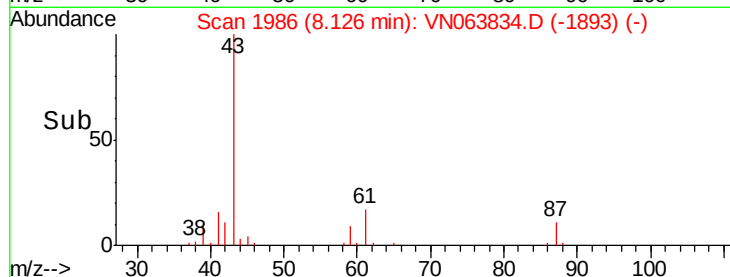
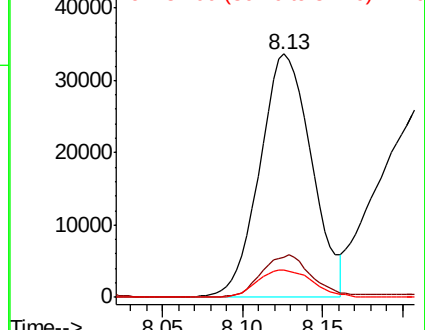
87 11.8 9.0 13.6



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: 0.527 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063834.D

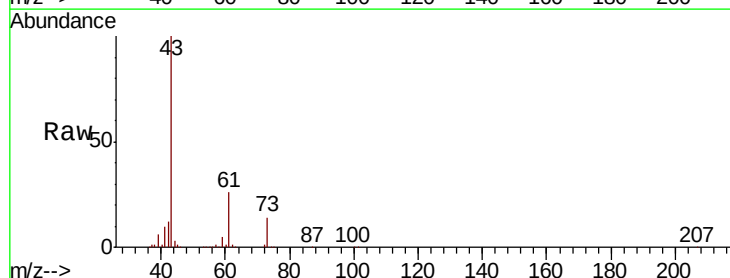
Acq: 2 Oct 2020 20:20

Tgt Ion: 63 Resp: 1713

Ion Ratio Lower Upper

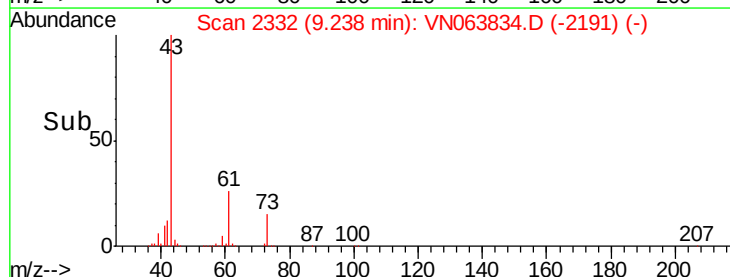
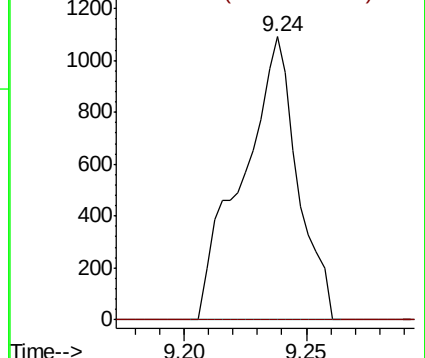
63 100

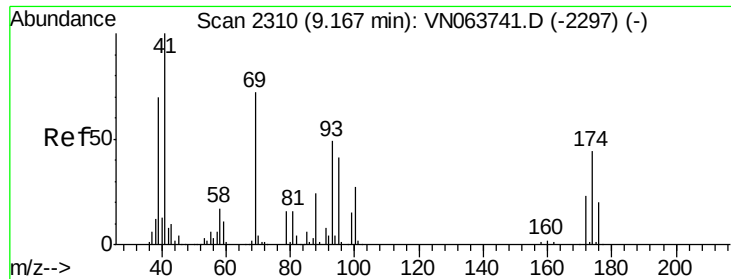
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

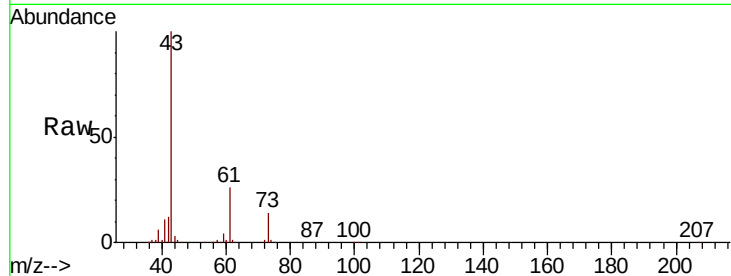




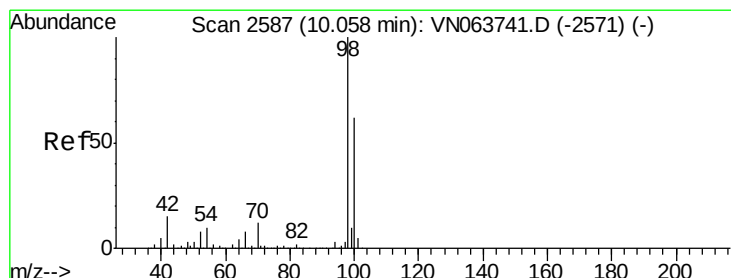
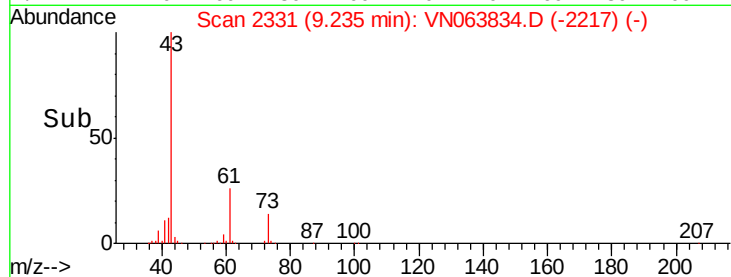
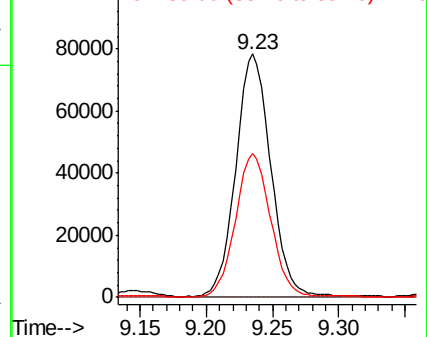
#48
Methyl methacrylate
Concen: 41.569 ug/l
RT: 9.23 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN063834.D
Acq: 2 Oct 2020 20:20

Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#13

Tot Ion: 41 Resp: 141832
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 59.4 57.5 86.3

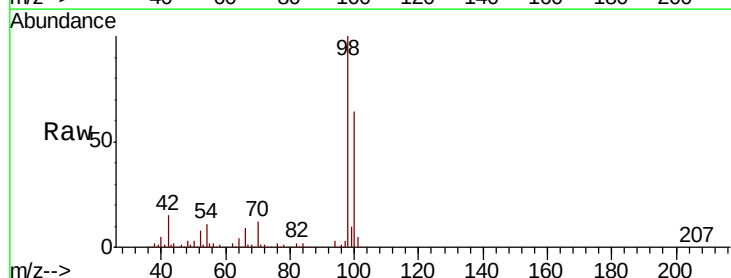


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

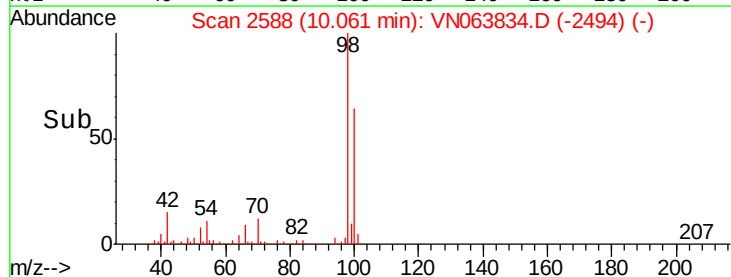
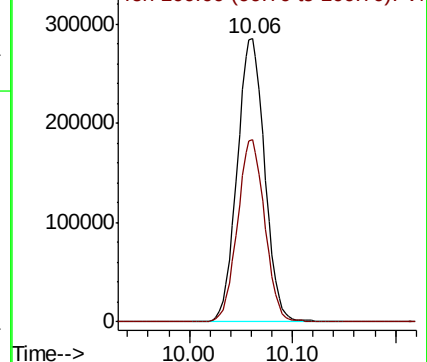


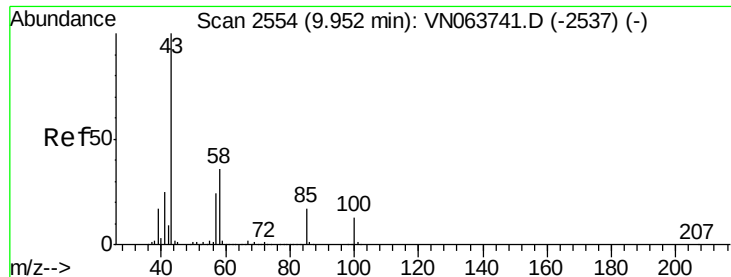
#50
Toluene-d8
Concen: 48.571 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063834.D
Acq: 2 Oct 2020 20:20

Tgt Ion: 98 Resp: 531439
Ion Ratio Lower Upper
98 100
100 63.8 49.8 74.6



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

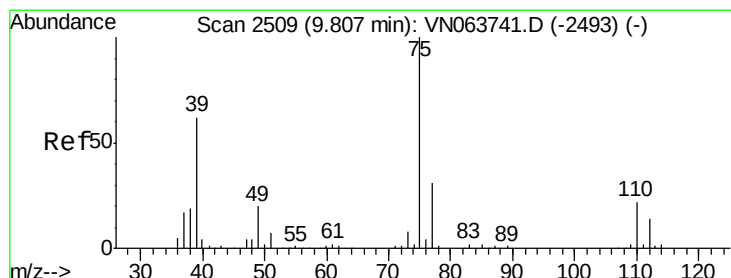
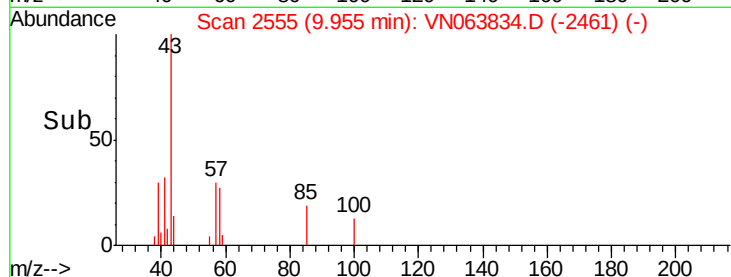
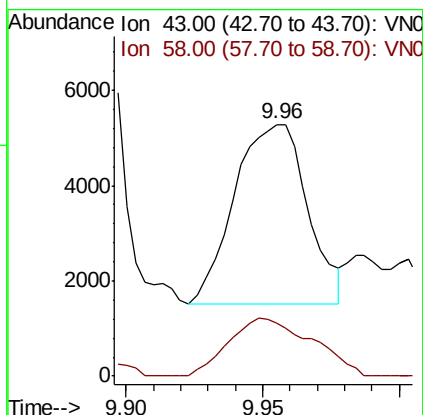
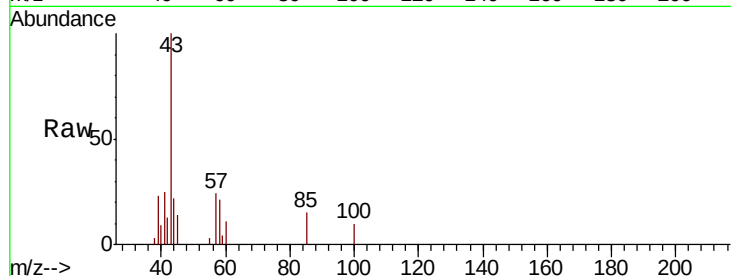




#51
4-Methyl-2-Pentanone
Concen: 1.745 ug/l
RT: 9.96 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN063834.D
Acq: 2 Oct 2020 20:20

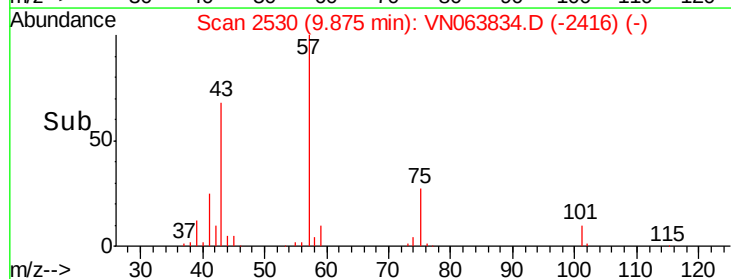
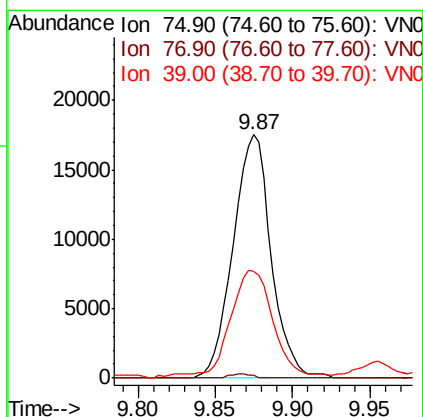
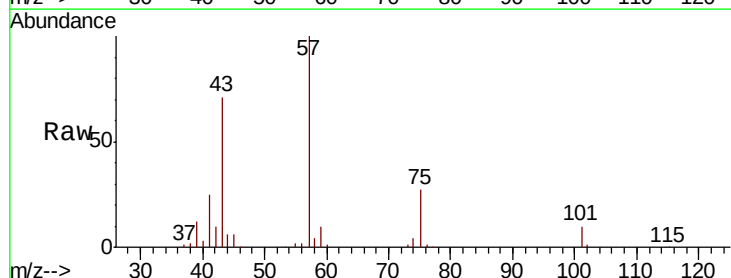
Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#13

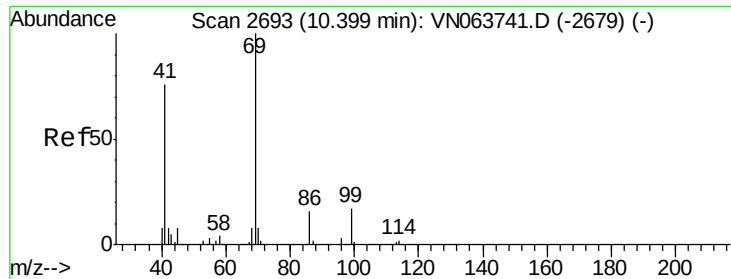
Tot Ion: 43 Resp: 7071
Ion Ratio Lower Upper
43 100
58 36.7 28.4 42.6



#54
cis-1,3-Dichloropropene
Concen: 5.772 ug/l
RT: 9.87 min Scan# 2530
Delta R.T. 0.07 min
Lab File: VN063834.D
Acq: 2 Oct 2020 20:20

Tgt Ion: 75 Resp: 29903
Ion Ratio Lower Upper
75 100
77 1.0 24.6 36.8#
39 42.4 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.439 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063834.D

Acq: 2 Oct 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#13

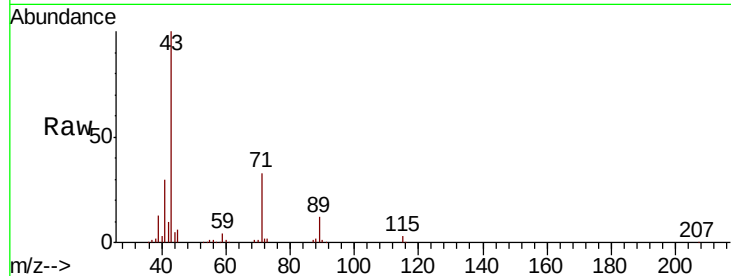
Tot Ion: 69 Resp: 1859

Ion Ratio Lower Upper

69 100

41 4613.8 61.1 91.7#

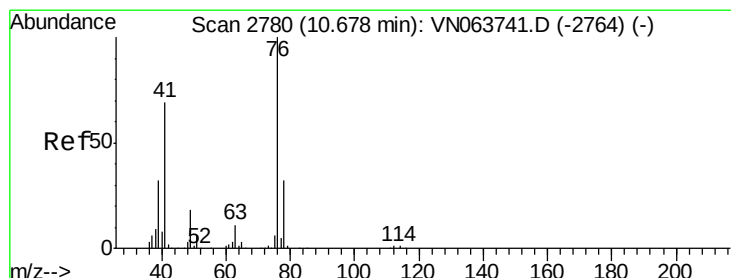
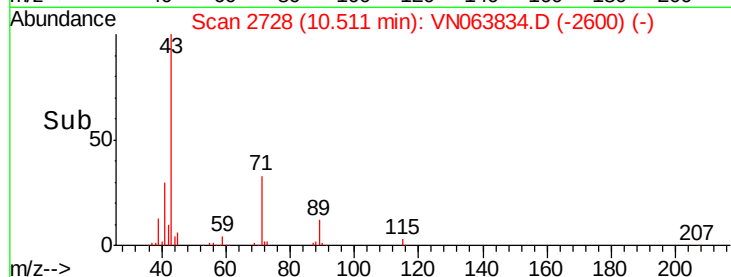
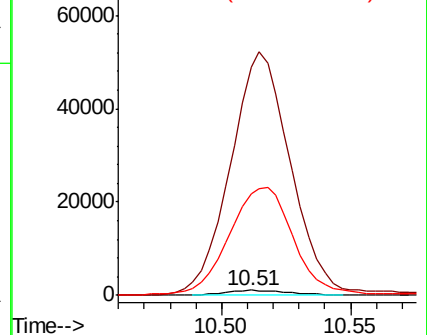
39 2189.9 42.2 63.4#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.173 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN063834.D

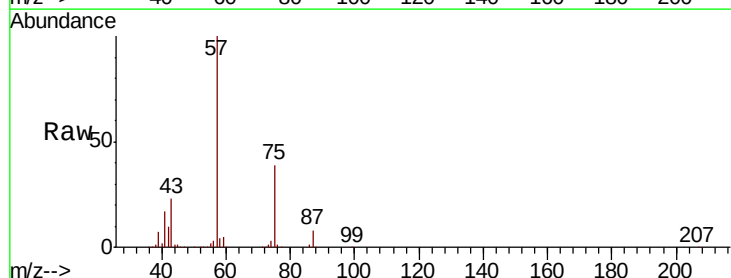
Acq: 2 Oct 2020 20:20

Tgt Ion: 76 Resp: 5923

Ion Ratio Lower Upper

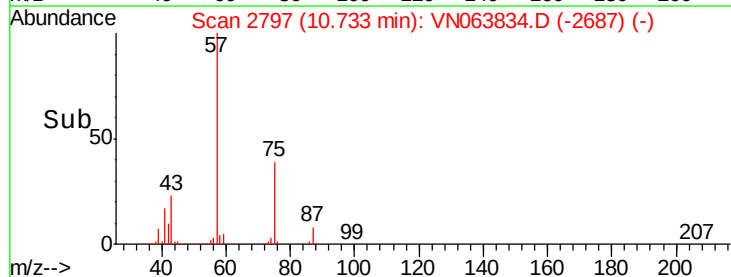
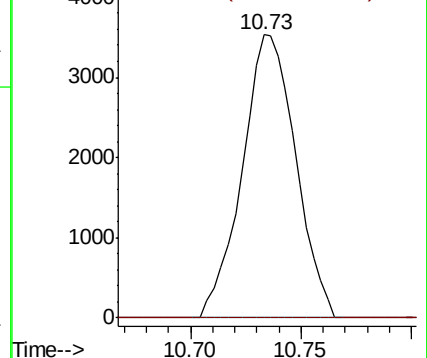
76 100

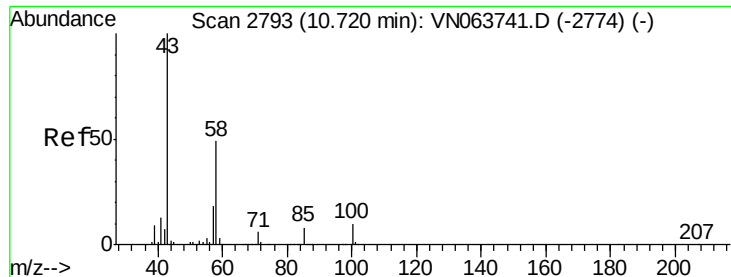
78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

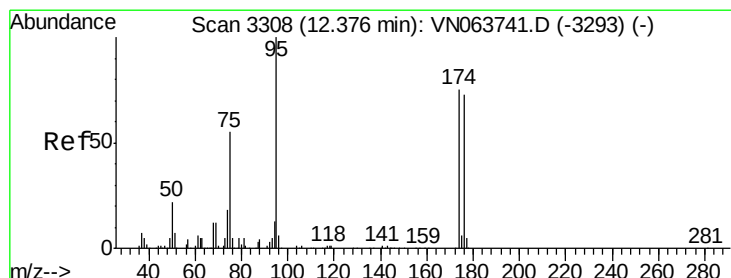
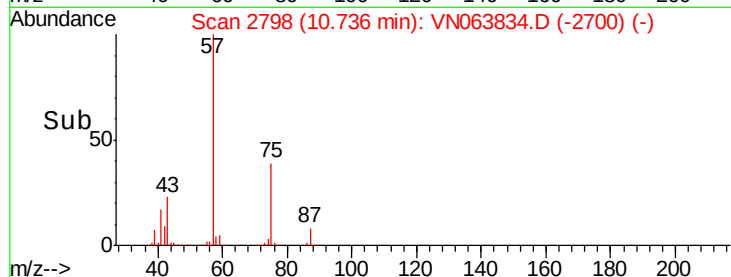
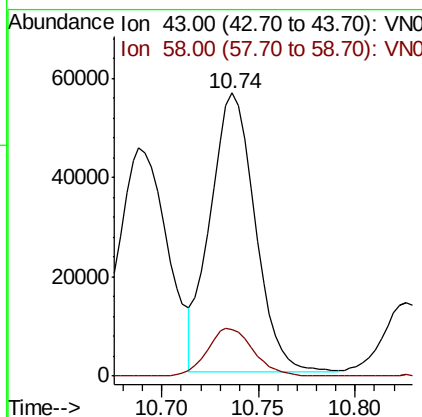
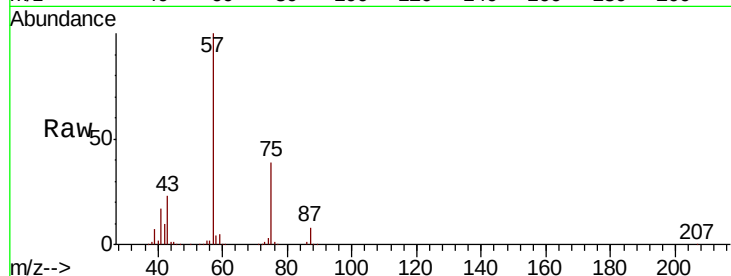




#59
2-Hexanone
Concen: 29.985 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063834.D
Acq: 2 Oct 2020 20:20

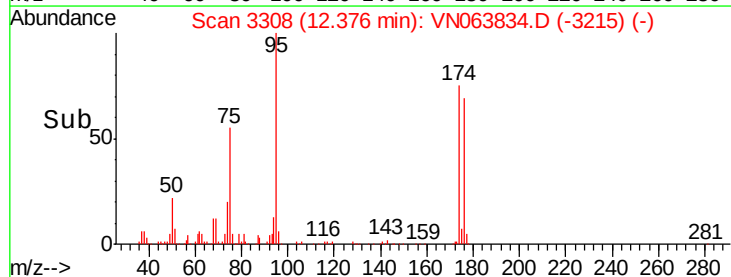
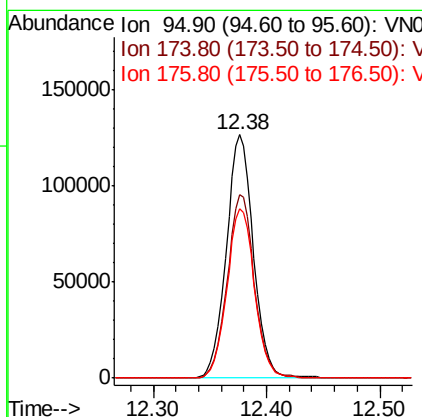
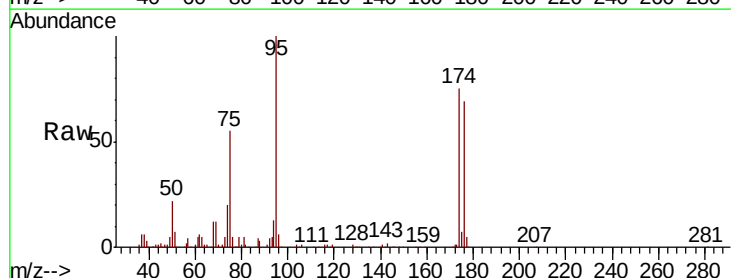
Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#13

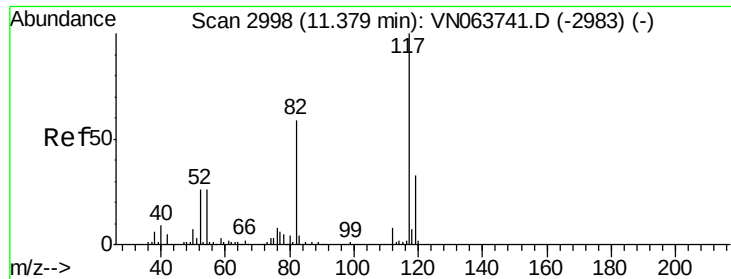
Tot Ion: 43 Resp: 90272
Ion Ratio Lower Upper
43 100
58 17.8 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 50.907 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063834.D
Acq: 2 Oct 2020 20:20

Tgt Ion: 95 Resp: 209382
Ion Ratio Lower Upper
95 100
174 75.9 0.0 150.6
176 71.2 0.0 145.4

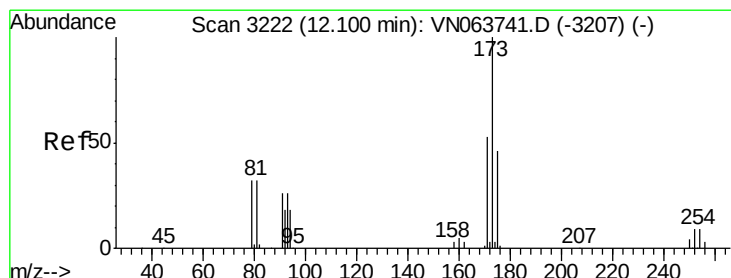
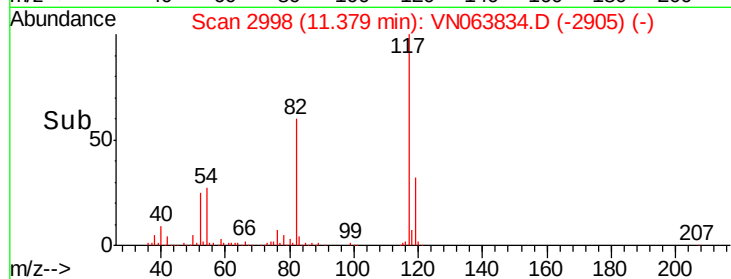
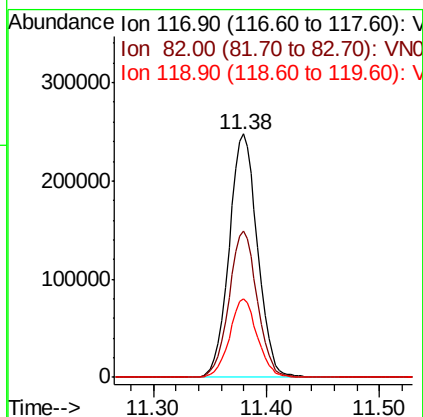
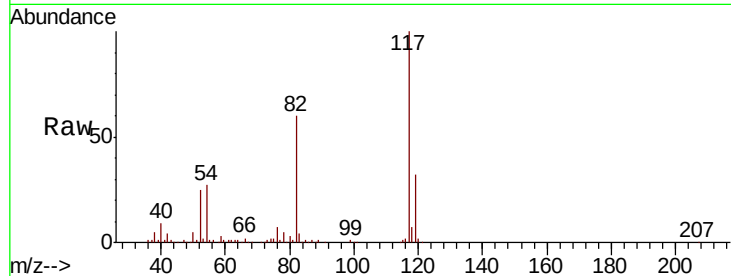




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063834.D
Acq: 2 Oct 2020 20:20

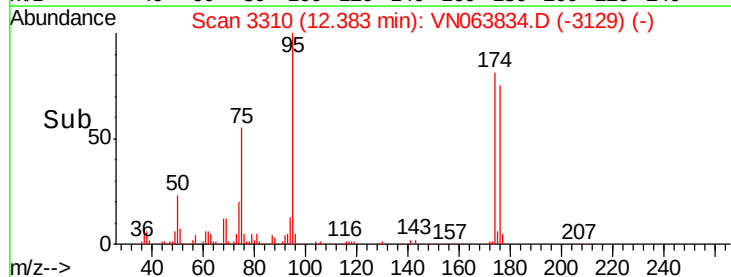
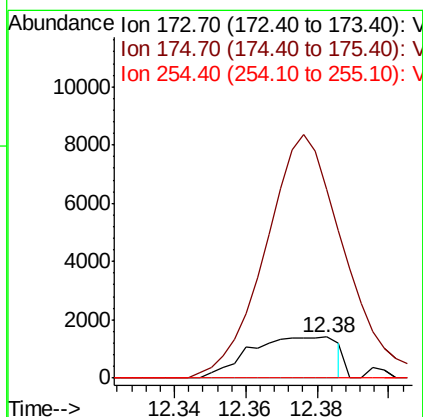
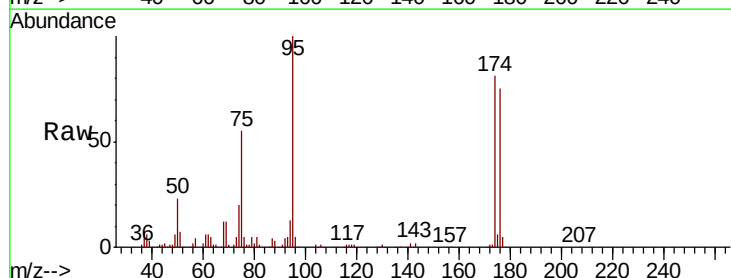
Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#13

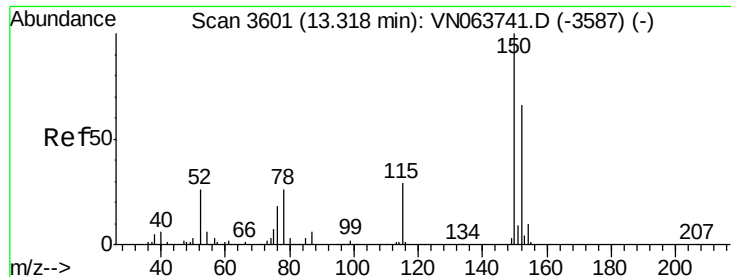
Tot Ion:117 Resp: 430586
Ion Ratio Lower Upper
117 100
82 60.2 47.4 71.2
119 32.4 26.4 39.6



#71
Bromoform
Concen: 0.922 ug/l
RT: 12.38 min Scan# 3310
Delta R.T. 0.28 min
Lab File: VN063834.D
Acq: 2 Oct 2020 20:20

Tgt Ion:173 Resp: 2387
Ion Ratio Lower Upper
173 100
175 446.5 23.5 70.5#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063834.D

Acq: 2 Oct 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#13

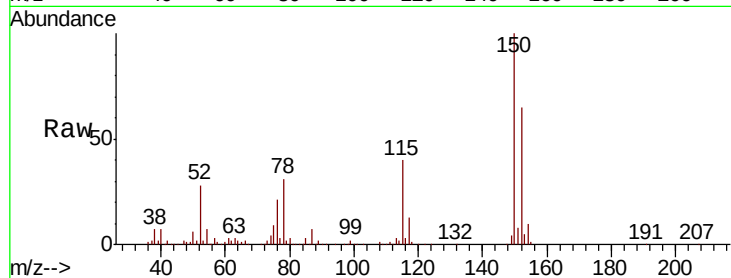
Tot Ion:152 Resp: 179769

Ion Ratio Lower Upper

152 100

115 62.3 31.3 93.8

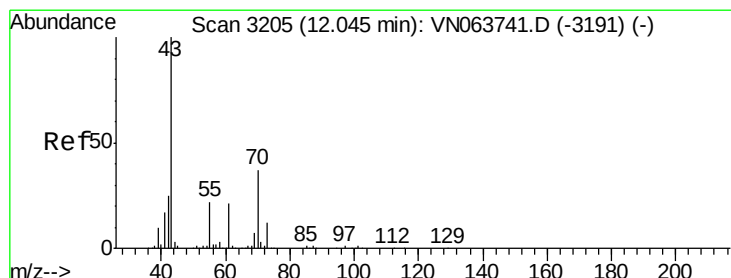
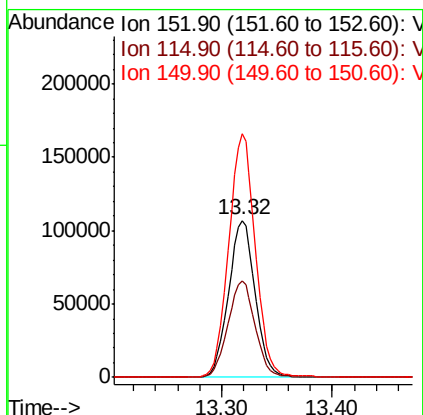
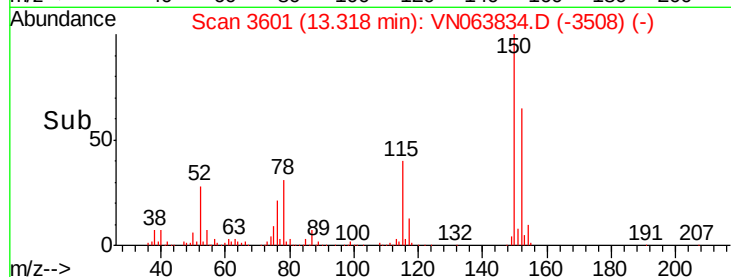
150 154.5 0.0 341.8



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



#74

N-amil acetate

Concen: 2.779 ug/l

RT: 12.01 min Scan# 3195

Delta R.T. -0.03 min

Lab File: VN063834.D

Acq: 2 Oct 2020 20:20

Tgt Ion: 43 Resp: 3589

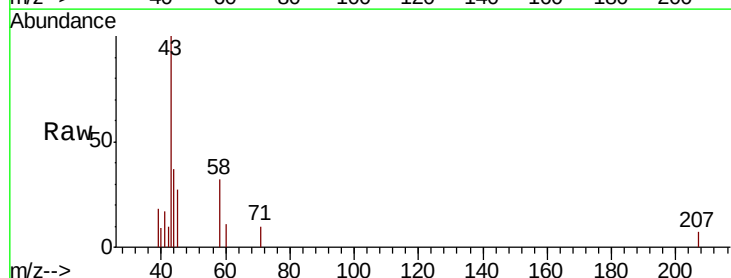
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 2.5 17.9 26.9#

61 0.0 17.0 25.4#

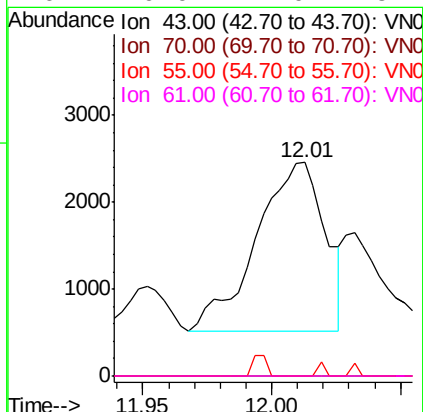
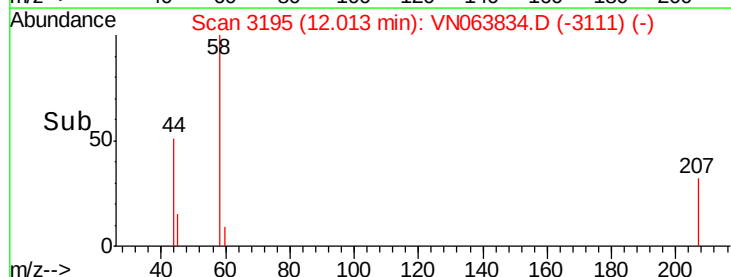


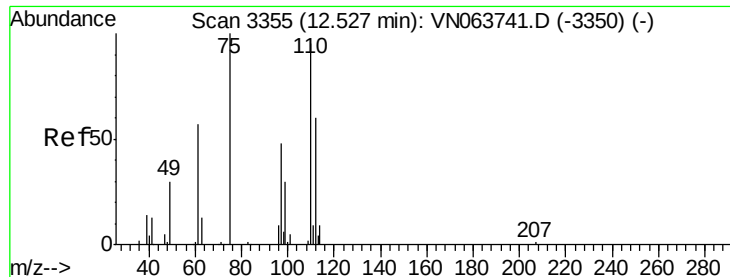
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 29.976 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063834.D

Acq: 2 Oct 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

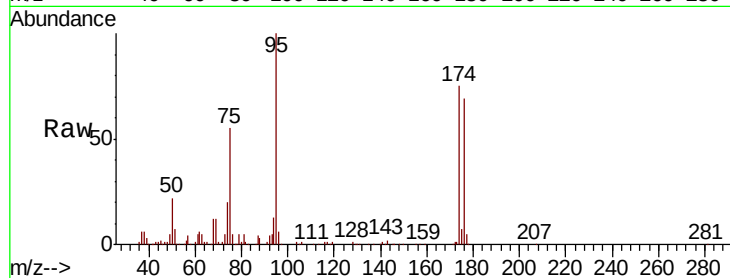
PB132030ZHE#13

Tot Ion: 75 Resp: 118791

Ion Ratio Lower Upper

75 100

77 0.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063741.D (-3350) (-)

Ion 77.00 (76.70 to 77.70): VN063741.D (-3350) (-)

12.38

80000

60000

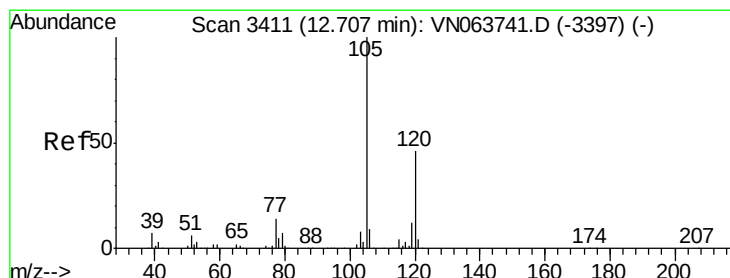
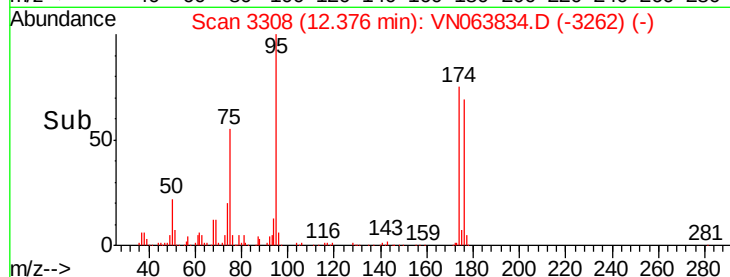
40000

20000

0

12.30 12.40 12.50

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.549 ug/l

RT: 12.71 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VN063834.D

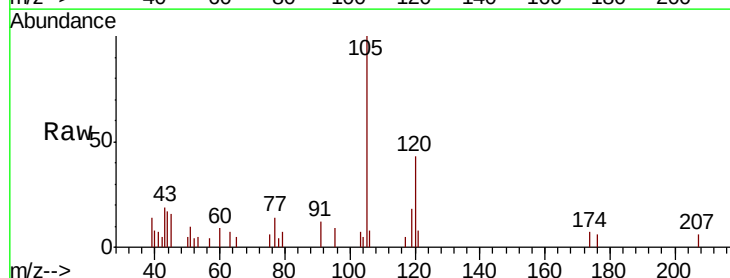
Acq: 2 Oct 2020 20:20

Tgt Ion: 105 Resp: 6038

Ion Ratio Lower Upper

105 100

120 45.4 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): VN063741.D (-3397) (-)

Ion 120.00 (119.70 to 120.70): VN063741.D (-3397) (-)

12.71

4000

3000

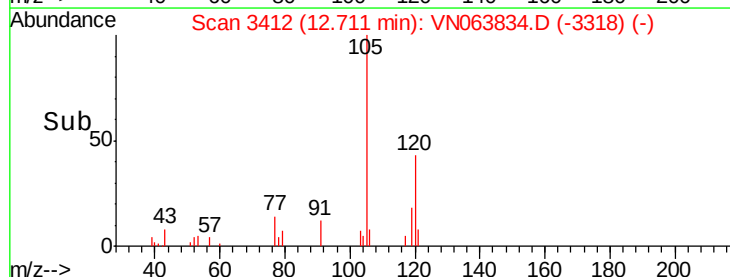
2000

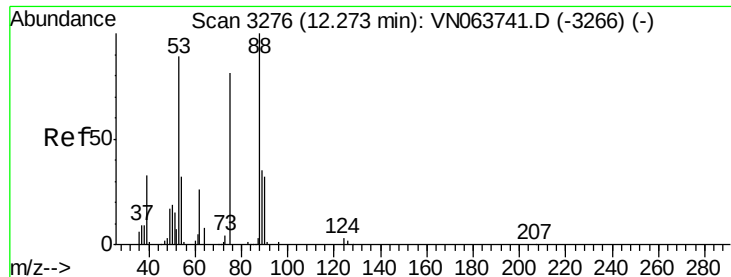
1000

0

12.65 12.70 12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 86.337 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063834.D

Acq: 2 Oct 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#13

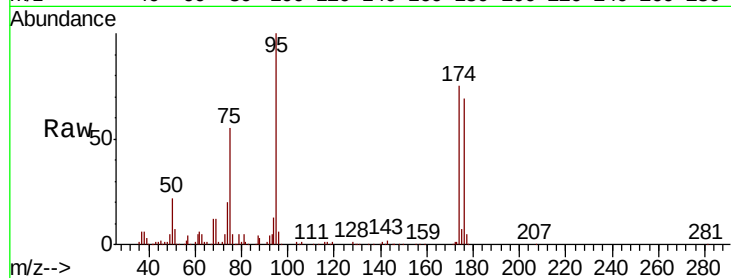
Tot Ion: 75 Resp: 118791

Ion Ratio Lower Upper

75 100

53 0.2 88.2 132.2#

89 0.0 36.0 54.0#



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

