

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100520\
 Data File : VN063874.D
 Acq On : 5 Oct 2020 16:33
 Operator : JC/MD
 Sample : PB132063ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#06

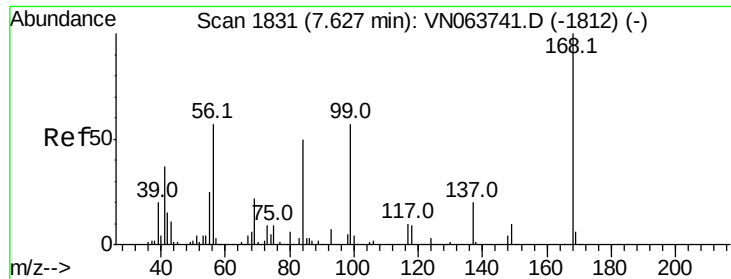
Quant Time: Oct 06 01:39:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	225700	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	422453	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	446512	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	178635	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	199180	53.42	ug/l	0.00
Spiked Amount			Recovery	=	106.84%	
35) Dibromofluoromethane	7.55	113	144291	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
50) Toluene-d8	10.06	98	542177	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
62) 4-Bromofluorobenzene	12.38	95	212290	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	156	0.379	ug/l #	71
16) Acetone	3.78	43	10365	9.030	ug/l	90
17) Carbon Disulfide	4.02	76	64	0.711	ug/l #	76
18) Methyl Acetate	4.30	43	3508	1.177	ug/l #	72
20) Methylene Chloride	4.51	84	9633	3.755	ug/l	92
25) 2-Butanone	6.77	43	850	0.522	ug/l #	51
29) Tetrahydrofuran	7.16	42	393	0.360	ug/l #	55
31) Cyclohexane	7.63	56	6748	1.559	ug/l #	34
36) 1,1-Dichloropropene	7.63	75	20604	4.814	ug/l #	49
38) Carbon Tetrachloride	7.63	117	24457	5.096	ug/l #	15
43) Isopropyl Acetate	8.13	43	83700	11.934	ug/l	98
45) 1,2-Dichloropropane	9.24	63	1398	0.423	ug/l #	44
48) Methyl methacrylate	9.23	41	155029	44.739	ug/l #	47
49) 1,4-Dioxane	9.23	88	105	2.132	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	8674	2.107	ug/l	97
52) Toluene	10.12	92	1569	0.208	ug/l	89
54) cis-1,3-Dichloropropene	9.87	75	33308	6.330	ug/l #	65
56) Ethyl methacrylate	10.51	69	2374	0.552	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5849	1.140	ug/l #	43
59) 2-Hexanone	10.74	43	101331	33.141	ug/l #	54
74) N-amyl acetate	12.01	43	4445	2.917	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	123472	31.355	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	6445	0.590	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.38	75	123472	90.308	ug/l #	6

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063874.D

Acq: 5 Oct 2020 16:33

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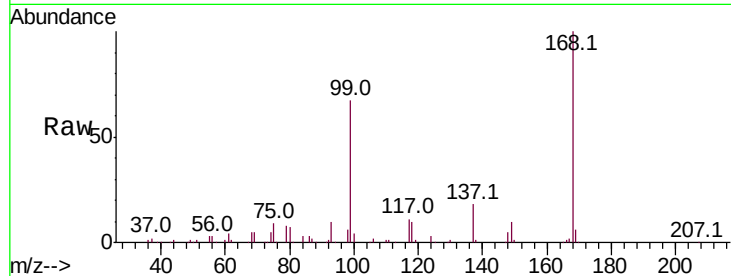
PB132063ZHE#06

Tot Ion:168 Resp: 225700

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): VNO

7.63

100000

80000

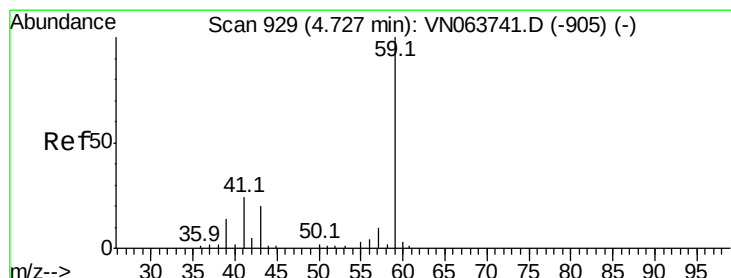
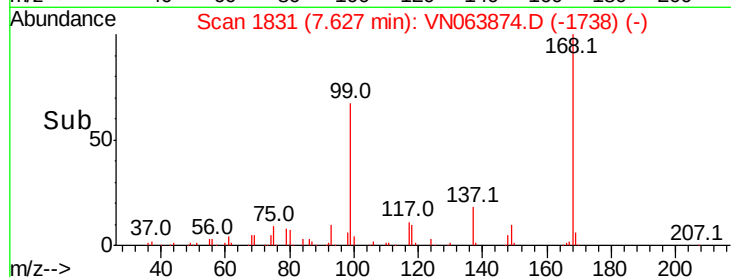
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.379 ug/l

RT: 4.72 min Scan# 926

Delta R.T. -0.01 min

Lab File: VN063874.D

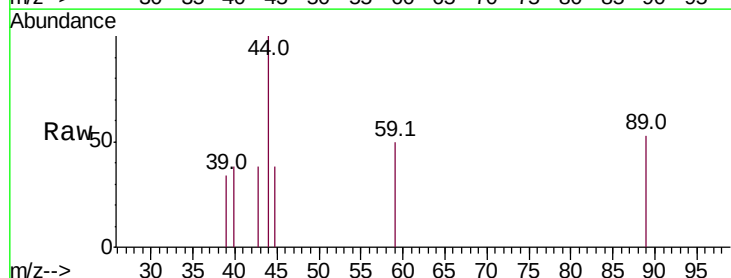
Acq: 5 Oct 2020 16:33

Tgt Ion: 59 Resp: 156

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.72

250

200

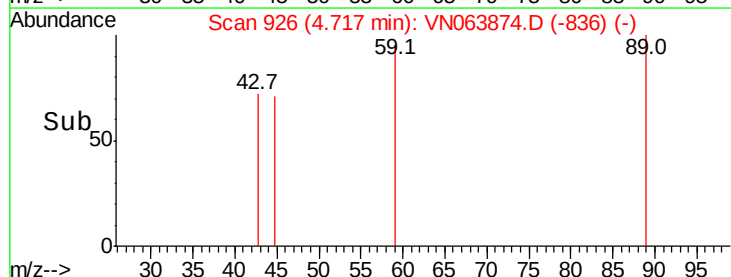
150

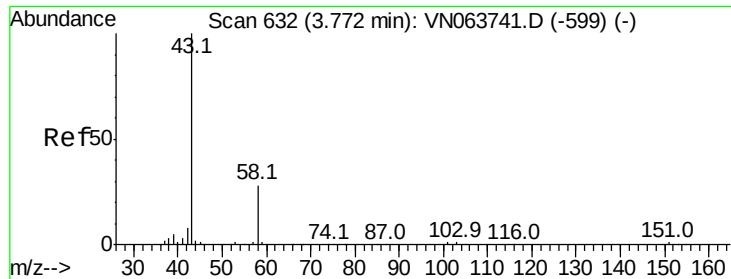
100

50

0

Time-->





#16

Acetone

Concen: 9.030 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063874.D

Acq: 5 Oct 2020 16:33

Instrument :

MSVOA_N

ClientSampleId :

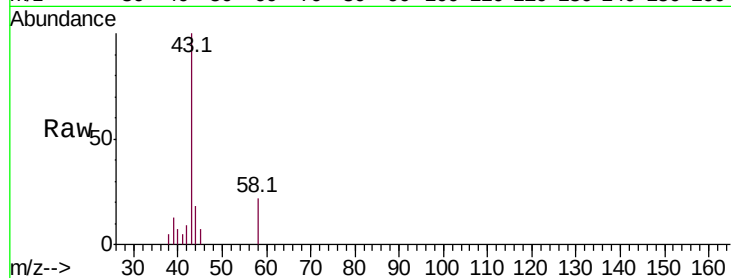
PB132063ZHE#06

Tot Ion: 43 Resp: 10365

Ion Ratio Lower Upper

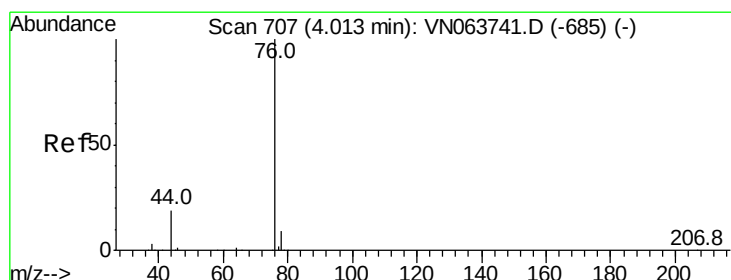
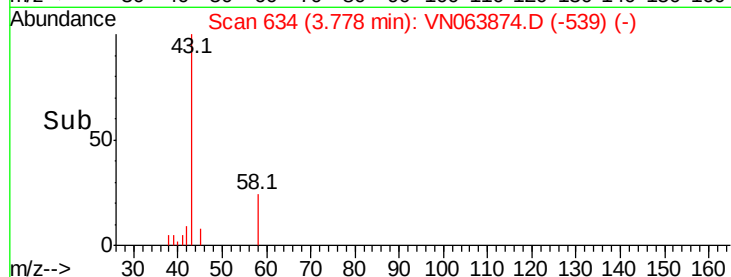
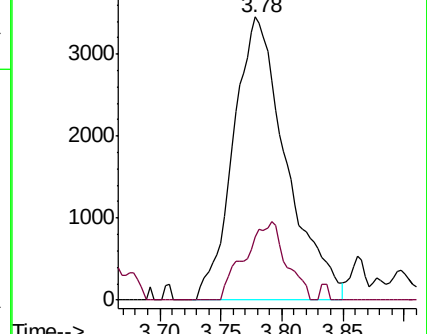
43 100

58 22.4 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.711 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN063874.D

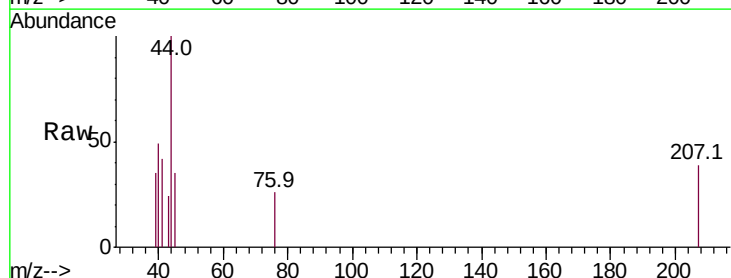
Acq: 5 Oct 2020 16:33

Tgt Ion: 76 Resp: 64

Ion Ratio Lower Upper

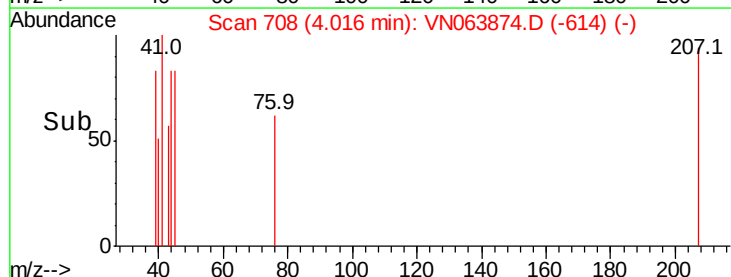
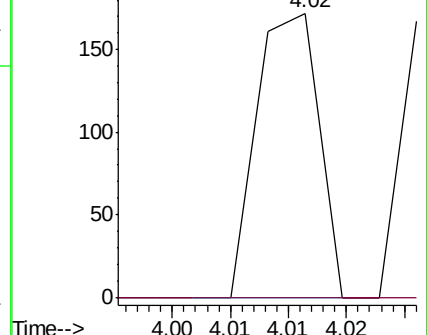
76 100

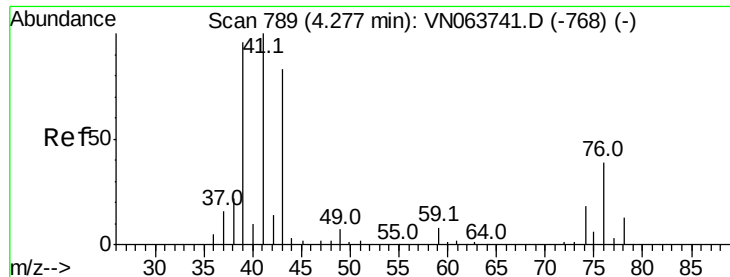
78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#18

Methyl Acetate

Concen: 1.177 ug/l

RT: 4.30 min Scan# 795

Delta R.T. 0.02 min

Lab File: VN063874.D

Acq: 5 Oct 2020 16:33

Instrument :

MSVOA_N

ClientSampleId :

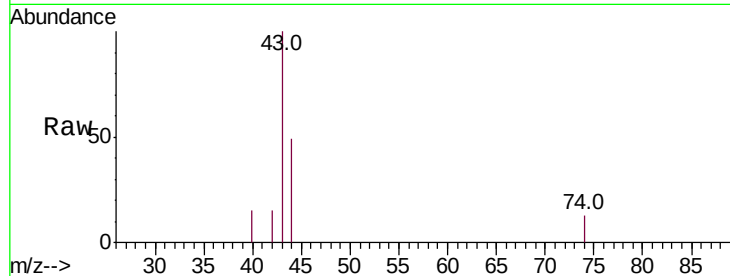
PB132063ZHE#06

Tot Ion: 43 Resp: 3508

Ion Ratio Lower Upper

43 100

74 8.6 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN063874.D (-768) (-)

Ion 74.00 (73.70 to 74.70): VN063874.D (-768) (-)

4.30

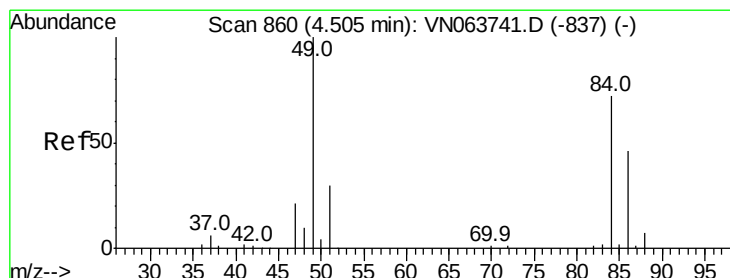
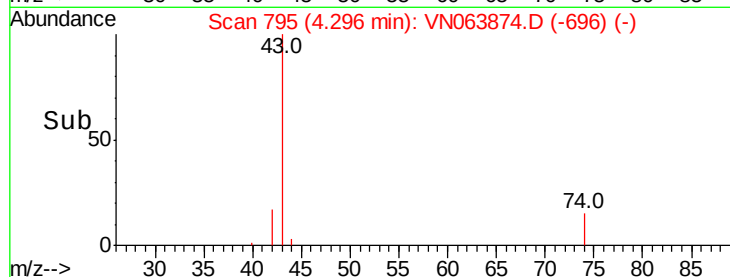
1500

1000

500

0

Time--> 4.20 4.25 4.30 4.35 4.40



#20

Methylene Chloride

Concen: 3.755 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.00 min

Lab File: VN063874.D

Acq: 5 Oct 2020 16:33

Tgt Ion: 84 Resp: 9633

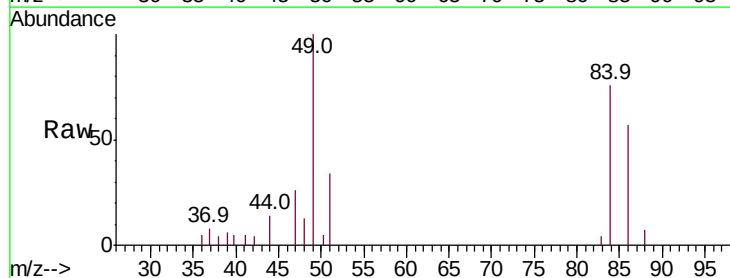
Ion Ratio Lower Upper

84 100

49 132.4 110.4 165.6

51 44.3 33.3 49.9

86 75.8 50.7 76.1



Abundance Ion 83.90 (83.60 to 84.60): VN063874.D (-837) (-)

Ion 48.90 (48.60 to 49.60): VN063874.D (-837) (-)

Ion 50.90 (50.60 to 51.60): VN063874.D (-837) (-)

Ion 85.90 (85.60 to 86.60): VN063874.D (-837) (-)

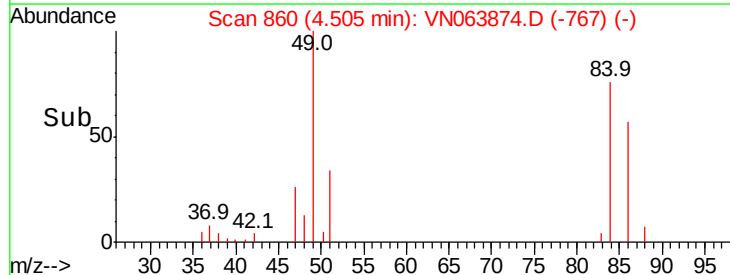
6000

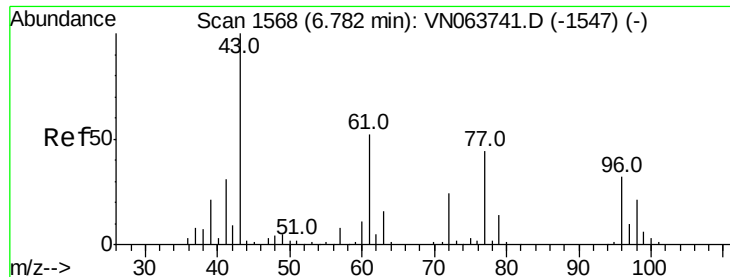
4000

2000

0

Time--> 4.40 4.45 4.50 4.55 4.60

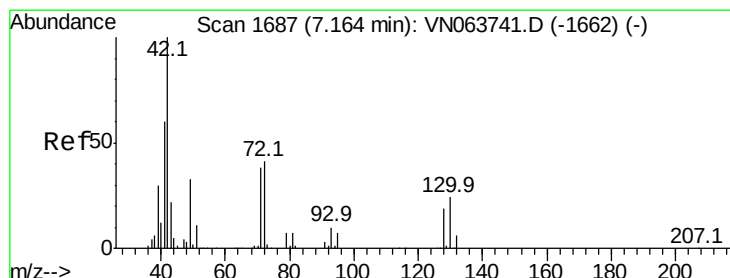
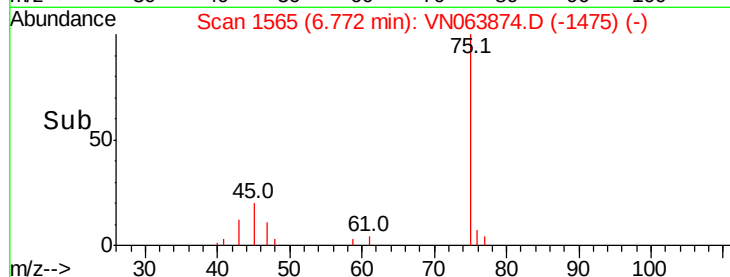
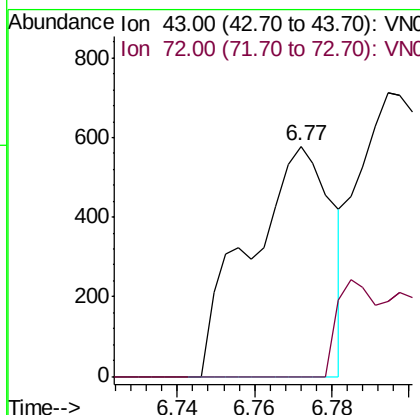
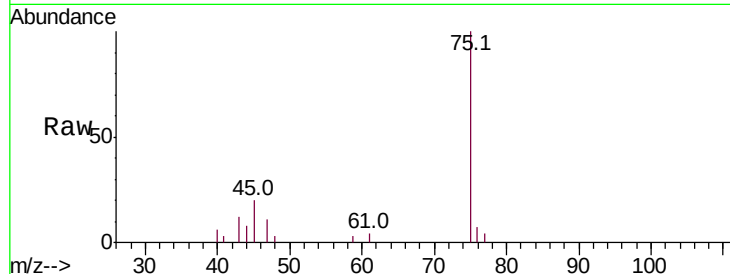




#25
2-Butanone
Concen: 0.522 ug/l
RT: 6.77 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VN063874.D
Acq: 5 Oct 2020 16:33

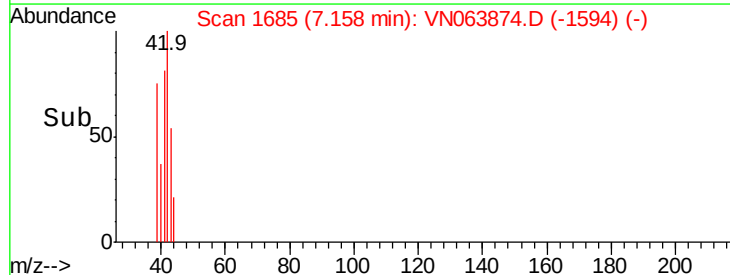
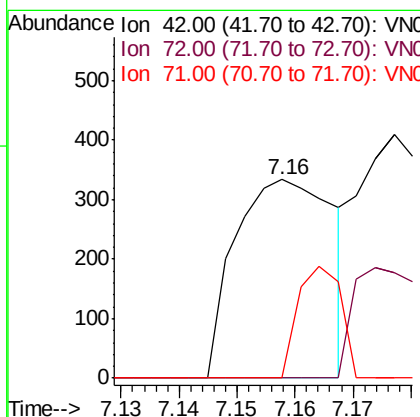
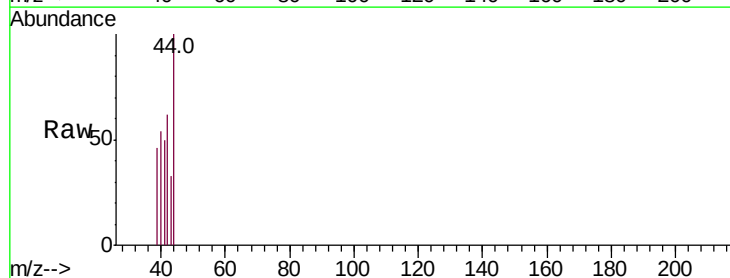
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#06

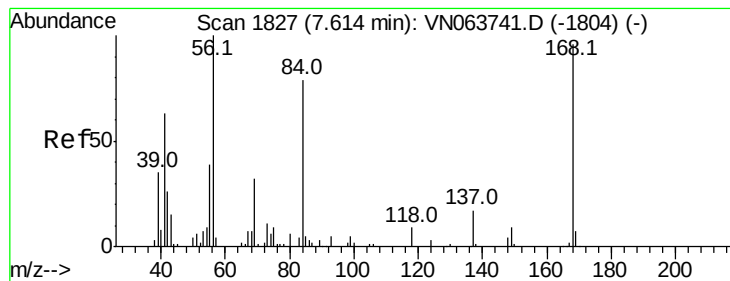
Tot Ion: 43 Resp: 850
Ion Ratio Lower Upper
43 100
72 0.0 19.3 28.9#



#29
Tetrahydrofuran
Concen: 0.360 ug/l
RT: 7.16 min Scan# 1685
Delta R.T. -0.01 min
Lab File: VN063874.D
Acq: 5 Oct 2020 16:33

Tgt Ion: 42 Resp: 393
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 24.9 30.6 45.8#





#31

Cyclohexane

Concen: 1.559 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063874.D

Acq: 5 Oct 2020 16:33

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#06

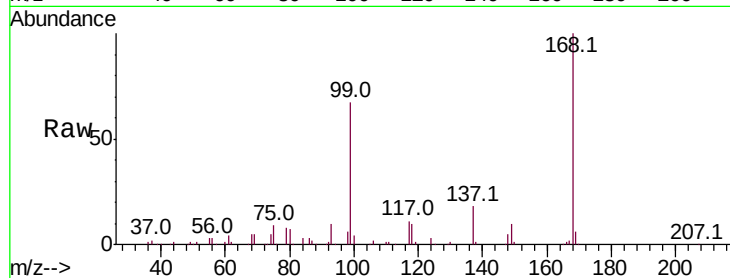
Tot Ion: 56 Resp: 6748

Ion Ratio Lower Upper

56 100

69 145.4 25.4 38.2#

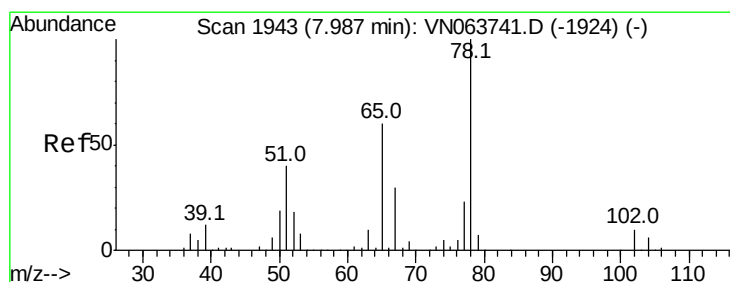
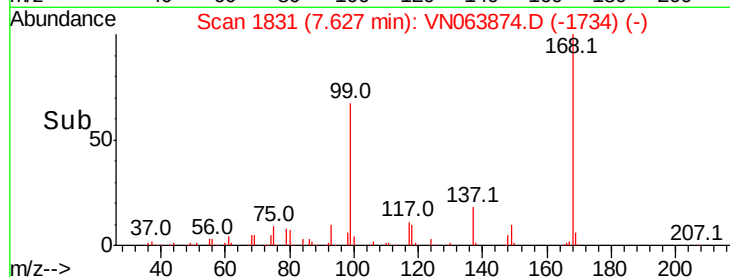
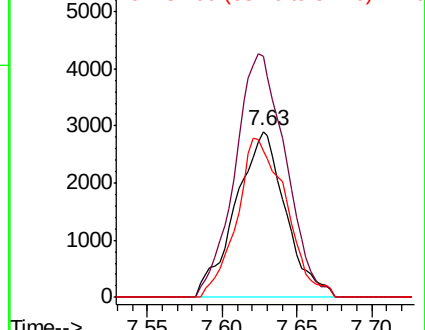
84 88.4 63.3 94.9



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: 53.418 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063874.D

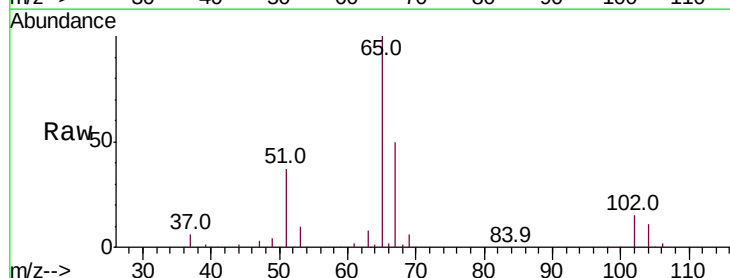
Acq: 5 Oct 2020 16:33

Tgt Ion: 65 Resp: 199180

Ion Ratio Lower Upper

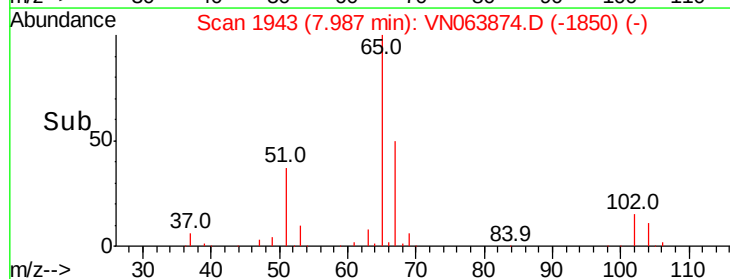
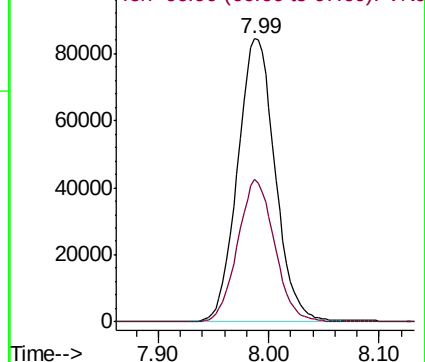
65 100

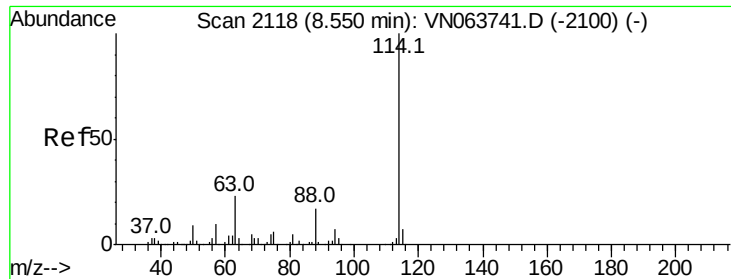
67 49.7 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063874.D

Acq: 5 Oct 2020 16:33

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MSVOA_N

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PB132063ZHE#06

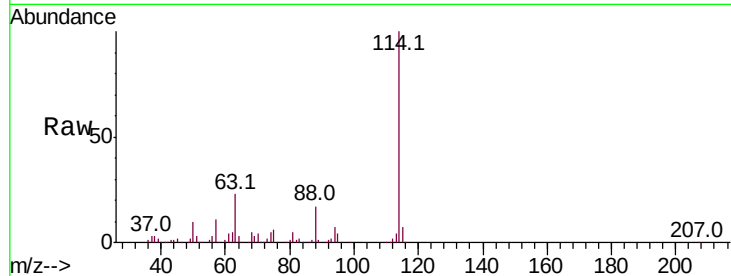
Tot Ion:114 Resp: 422453

Ion Ratio Lower Upper

114 100

63 23.3 0.0 45.0

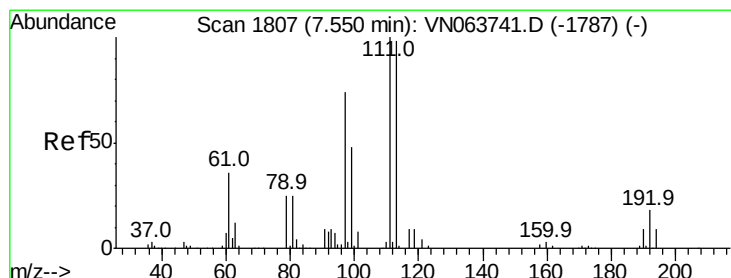
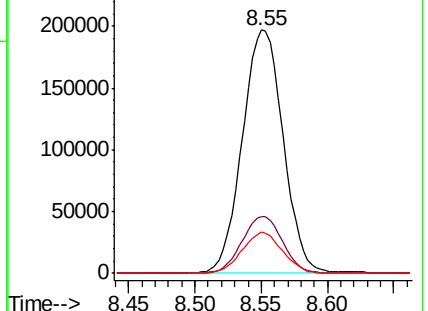
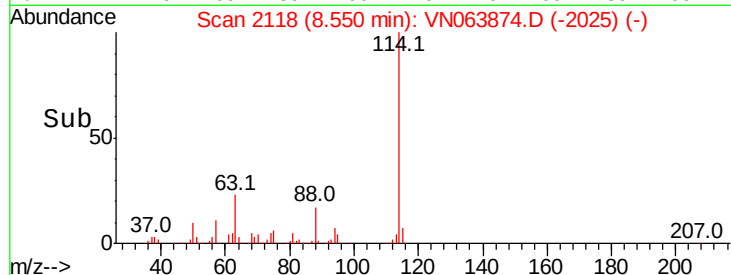
88 16.9 0.0 34.0



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: 49.224 ug/l

RT: 7.55 min Scan# 1808

Delta R.T. 0.00 min

Lab File: VN063874.D

Acq: 5 Oct 2020 16:33

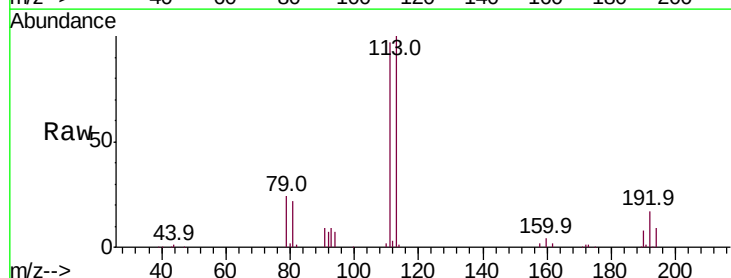
Tgt Ion:113 Resp: 144291

Ion Ratio Lower Upper

113 100

111 101.2 81.8 122.8

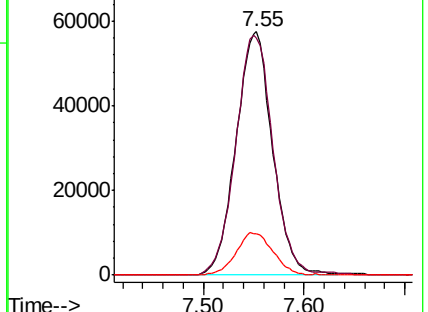
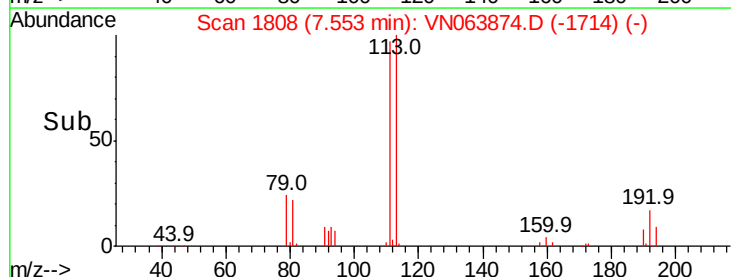
192 17.7 14.2 21.2

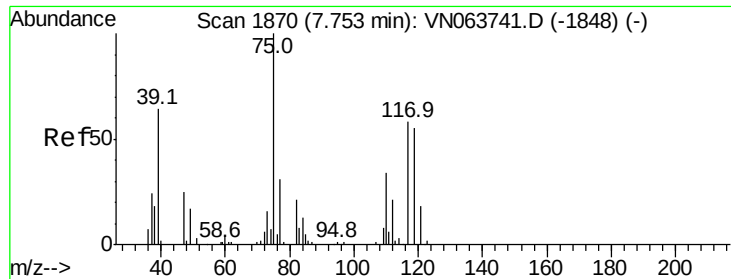


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

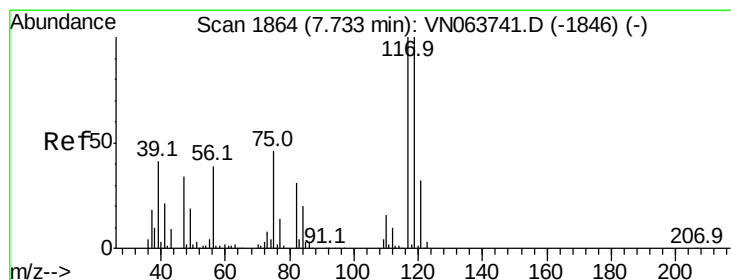
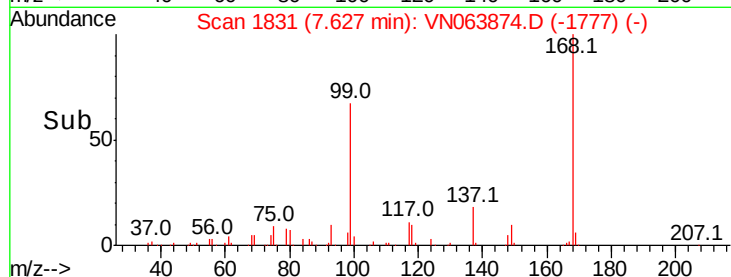
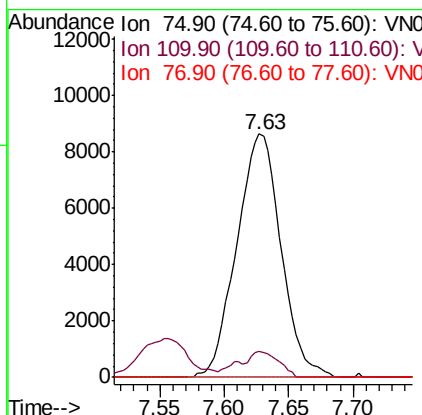
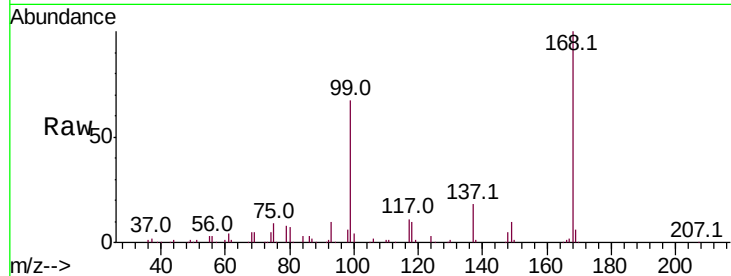




#36
 1,1-Dichloropropene
 Concen: 4.814 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063874.D
 Acq: 5 Oct 2020 16:33

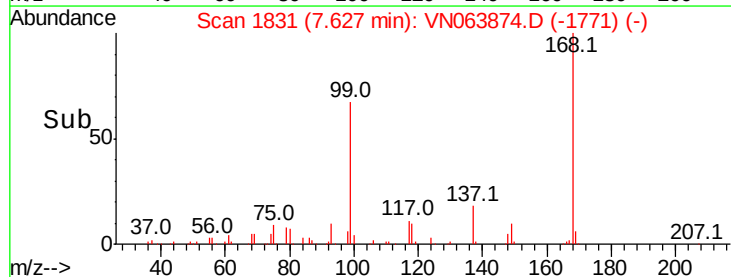
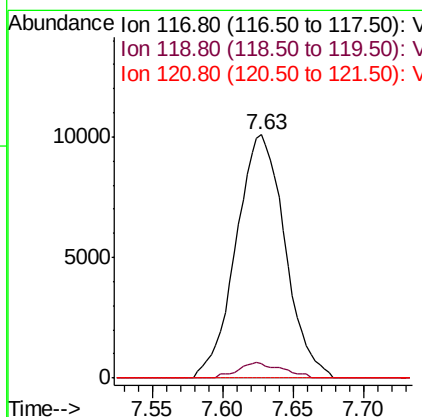
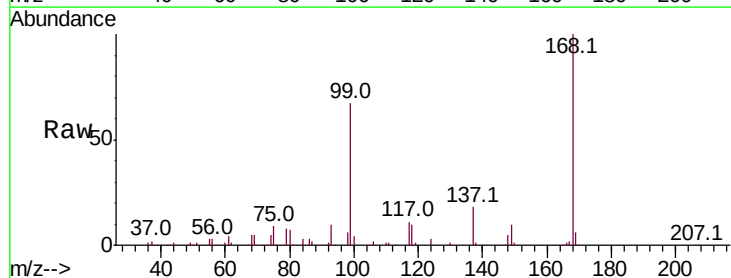
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#06

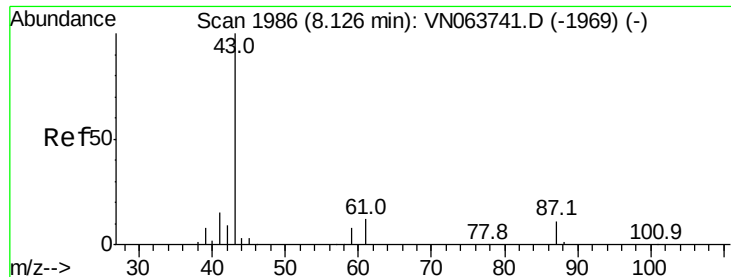
Tot Ion	75	Resp	20604
Ion Ratio	Lower	Upper	
75	100		
110	7.1	16.9	50.6#
77	0.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 5.096 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063874.D
 Acq: 5 Oct 2020 16:33

Tgt Ion	117	Resp	24457
Ion Ratio	Lower	Upper	
117	100		
119	5.9	80.1	120.1#
121	0.0	25.7	38.5#





#43

Isopropyl Acetate

Concen: 11.934 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063874.D

Acq: 5 Oct 2020 16:33

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#06

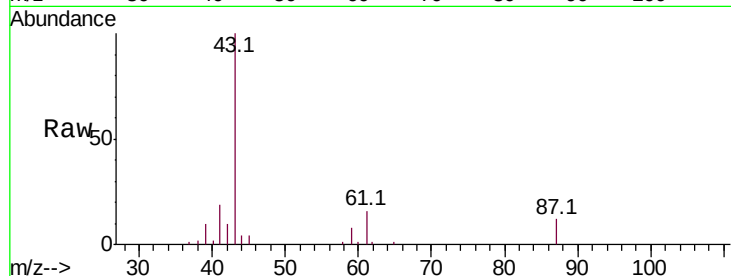
Tot Ion: 43 Resp: 83700

Ion Ratio Lower Upper

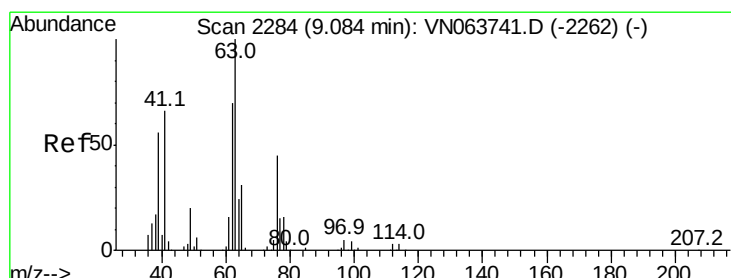
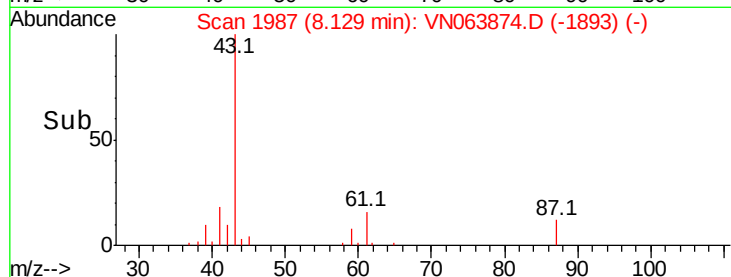
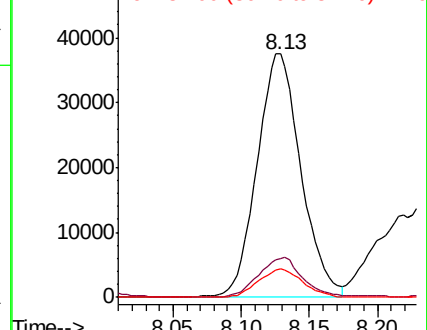
43 100

61 16.6 14.2 21.4

87 11.6 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#45

1,2-Dichloropropane

Concen: 0.423 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063874.D

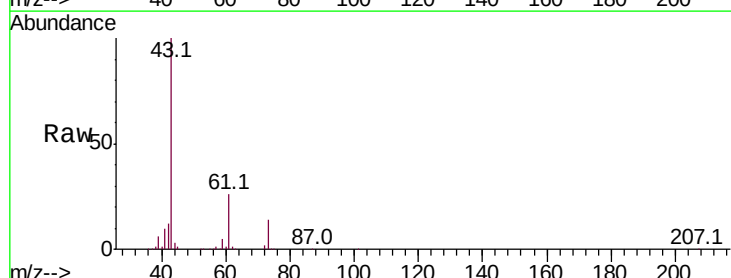
Acq: 5 Oct 2020 16:33

Tgt Ion: 63 Resp: 1398

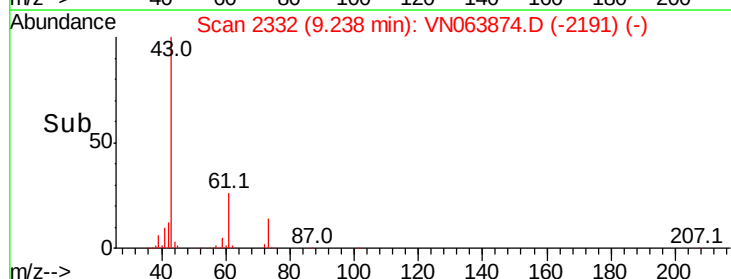
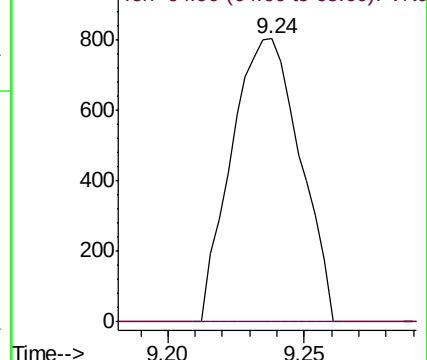
Ion Ratio Lower Upper

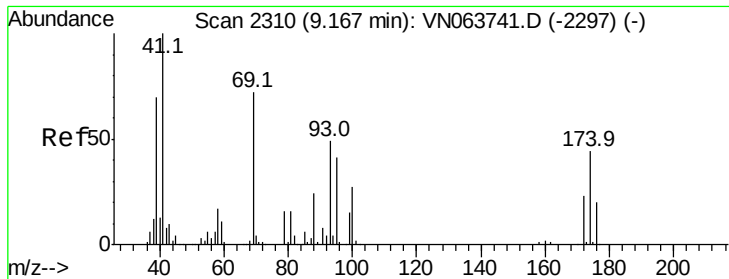
63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VNO
Ion 64.90 (64.60 to 65.60): VNO

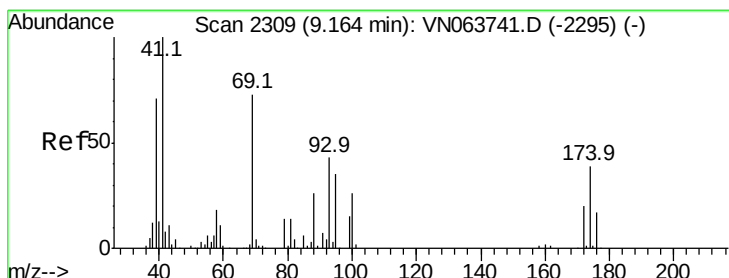
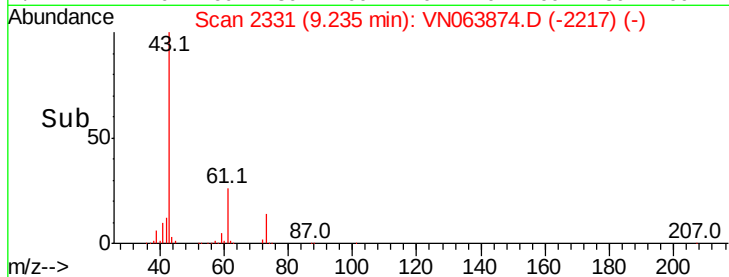
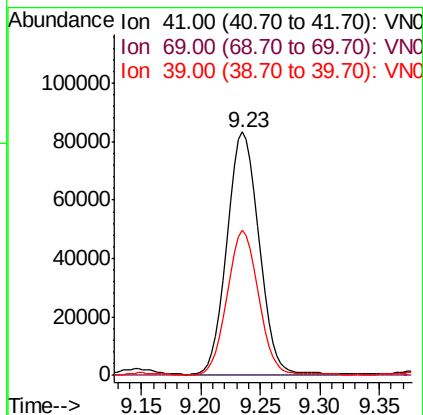
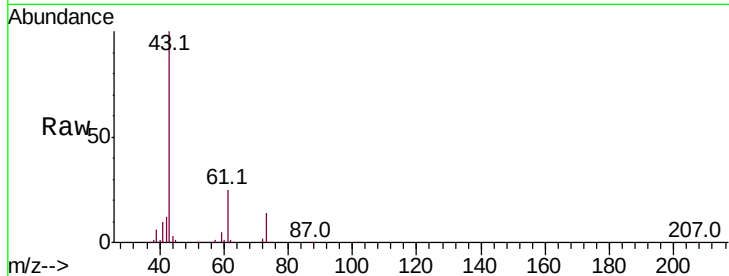




#48
Methyl methacrylate
Concen: 44.739 ug/l
RT: 9.23 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN063874.D
Acq: 5 Oct 2020 16:33

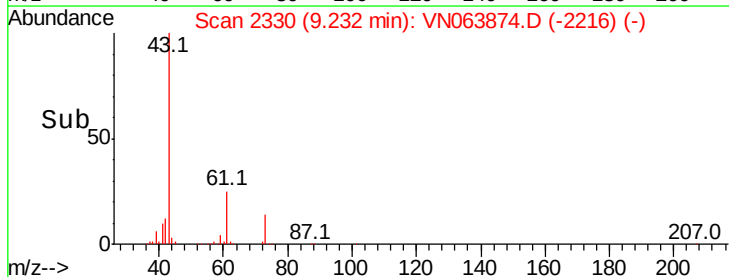
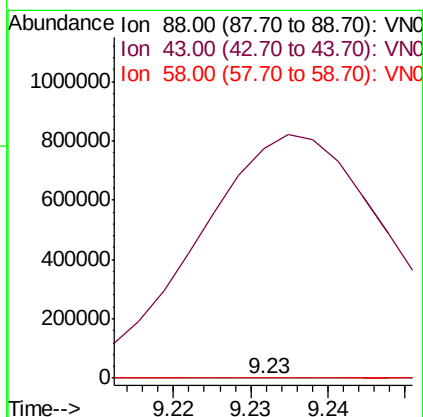
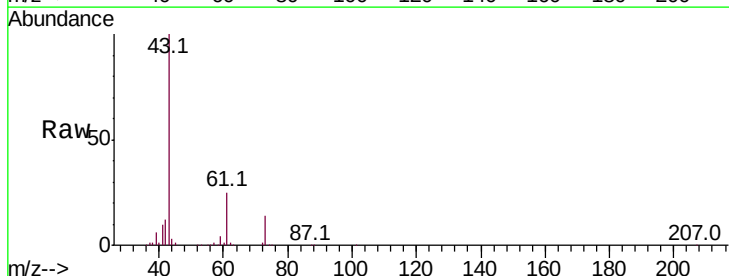
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#06

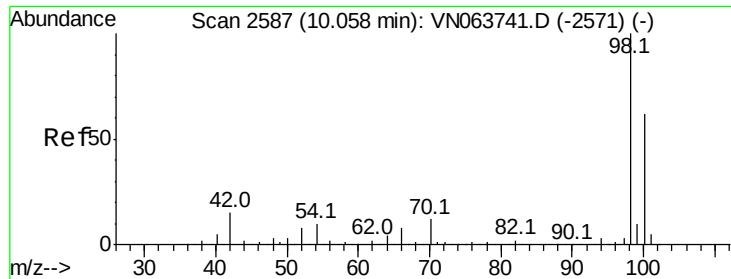
Tot Ion: 41 Resp: 155029
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 58.8 57.5 86.3



#49
1,4-Dioxane
Concen: 2.132 ug/l
RT: 9.23 min Scan# 2330
Delta R.T. 0.07 min
Lab File: VN063874.D
Acq: 5 Oct 2020 16:33

Tgt Ion: 88 Resp: 105
Ion Ratio Lower Upper
88 100
43 1422217.1 33.1 49.7#
58 6191.4 58.9 88.3#





#50

Toluene-d8

Concen: 48.791 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063874.D

Acq: 5 Oct 2020 16:33

Instrument :

MSVOA_N

ClientSampleId :

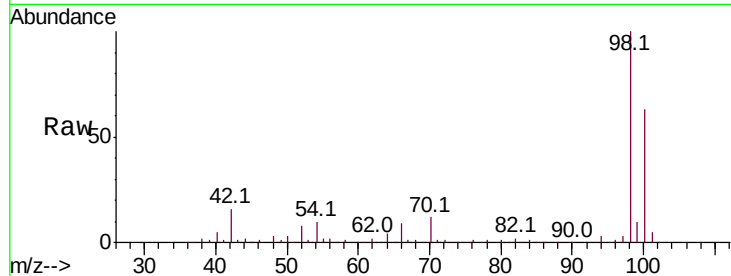
PB132063ZHE#06

Tot Ion: 98 Resp: 542177

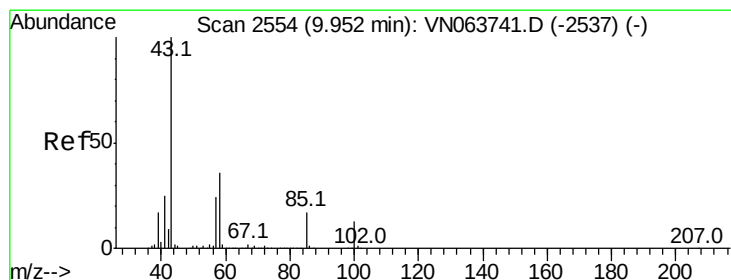
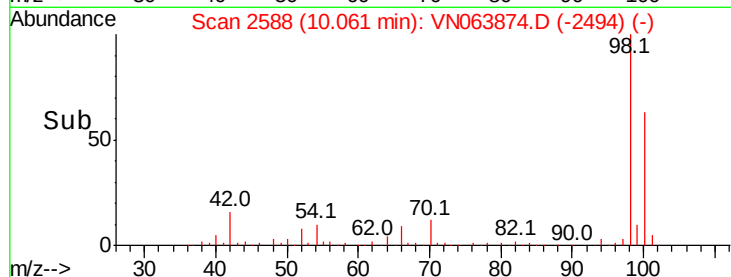
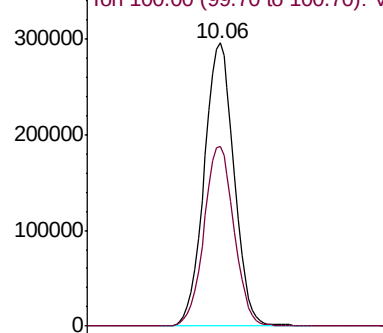
Ion Ratio Lower Upper

98 100

100 63.9 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN063874.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.107 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN063874.D

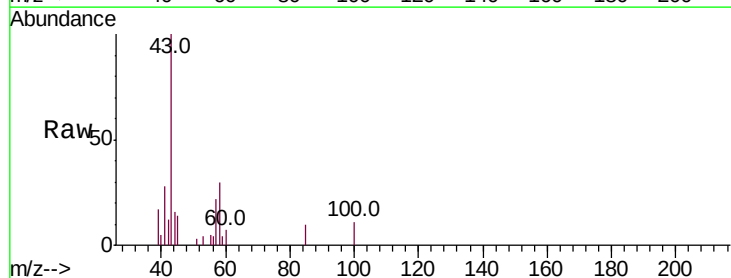
Acq: 5 Oct 2020 16:33

Tgt Ion: 43 Resp: 8674

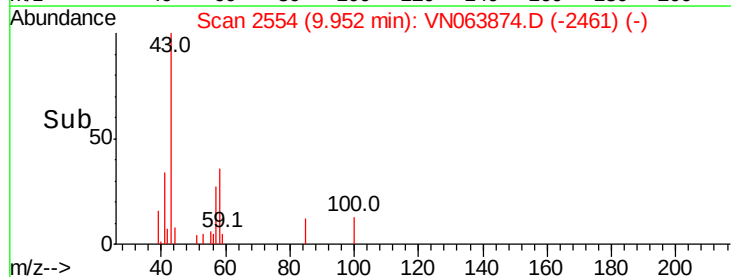
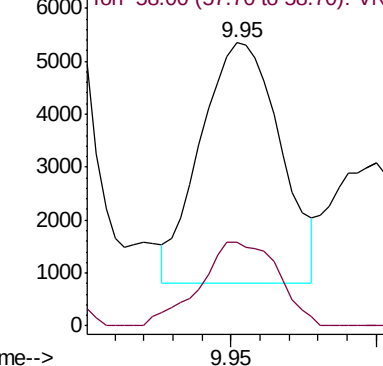
Ion Ratio Lower Upper

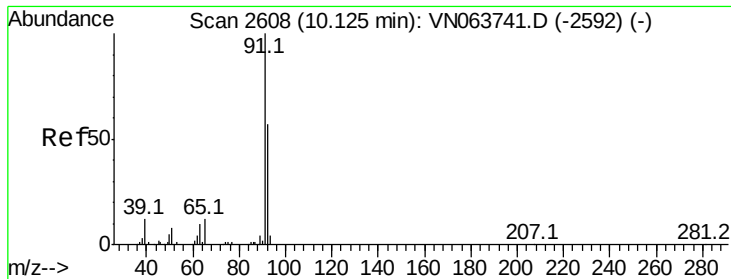
43 100

58 34.0 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VN063874.D (-2461) (-)





#52

Toluene

Concen: 0.208 ug/l

RT: 10.12 min Scan# 2606

Delta R.T. -0.01 min

Lab File: VN063874.D

Acq: 5 Oct 2020 16:33

Instrument :

MSVOA_N

ClientSampleId :

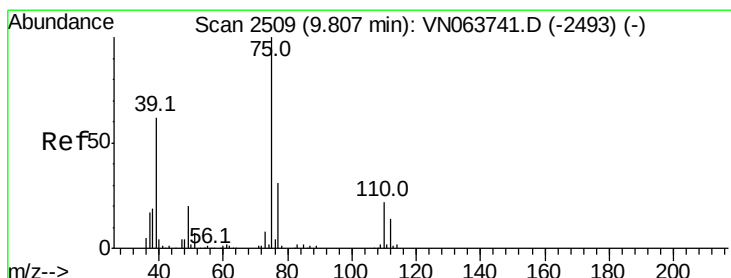
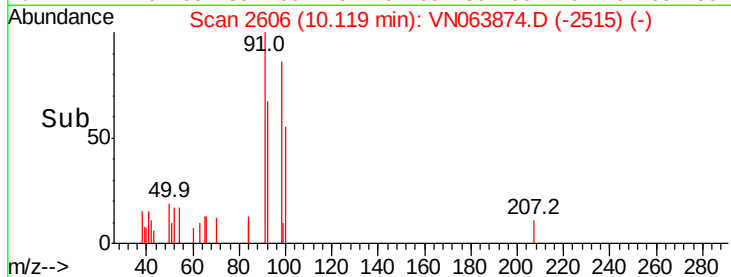
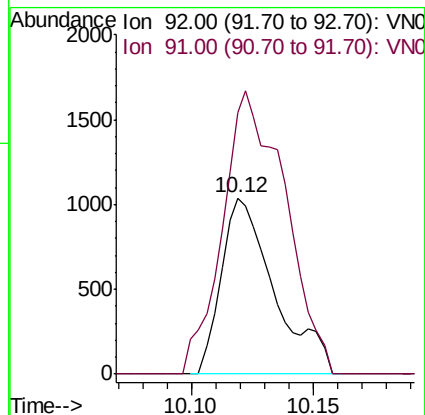
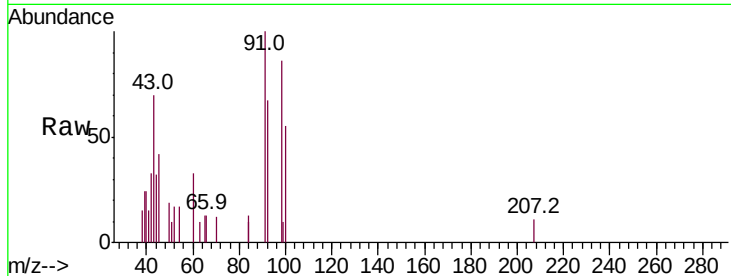
PB132063ZHE#06

Tot Ion: 92 Resp: 1569

Ion Ratio Lower Upper

92 100

91 190.6 140.6 210.8



#54

cis-1,3-Dichloropropene

Concen: 6.330 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN063874.D

Acq: 5 Oct 2020 16:33

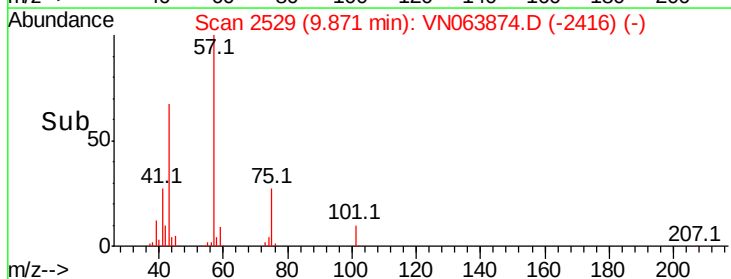
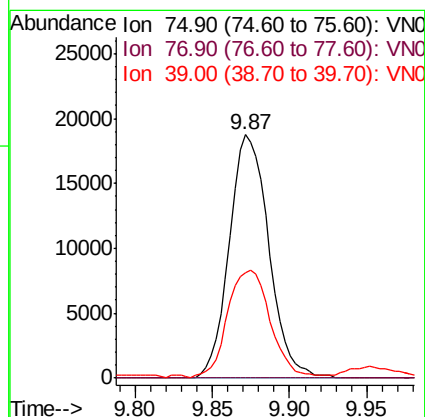
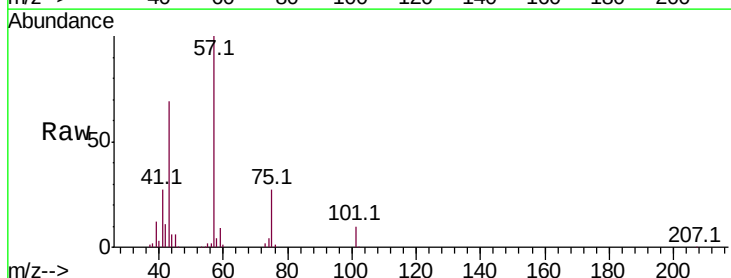
Tgt Ion: 75 Resp: 33308

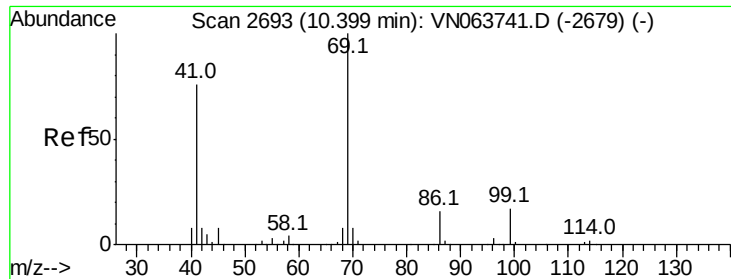
Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

39 43.4 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.552 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063874.D

Acq: 5 Oct 2020 16:33

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#06

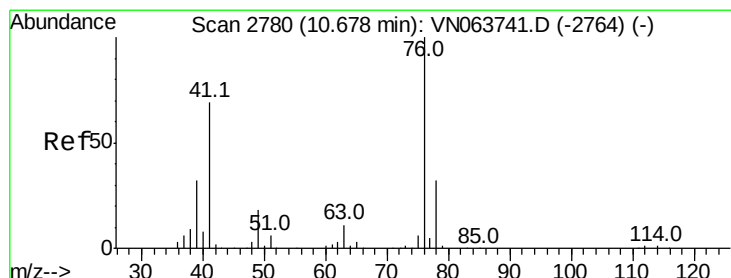
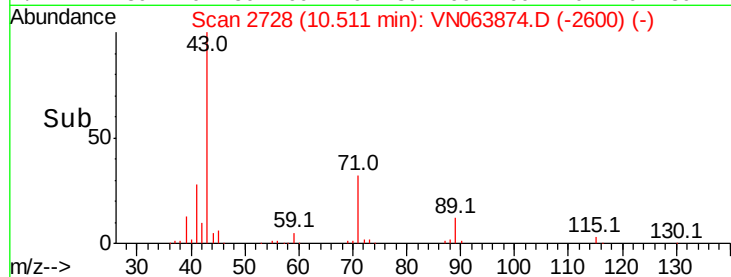
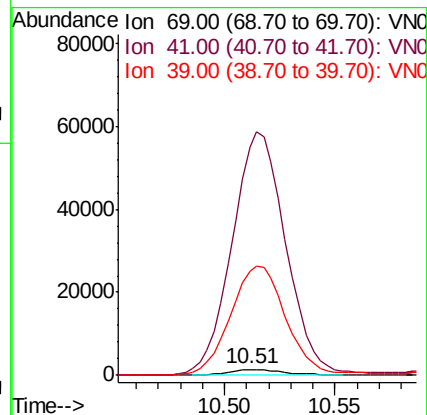
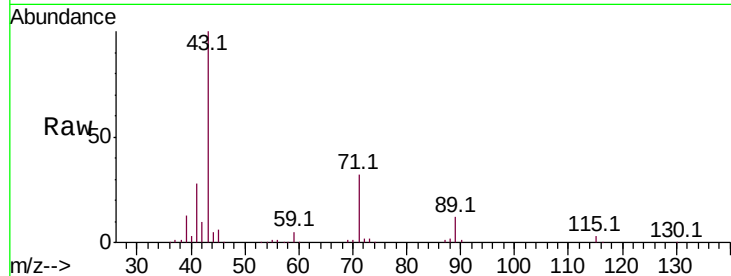
Tot Ion: 69 Resp: 2374

Ion Ratio Lower Upper

69 100

41 4185.6 61.1 91.7#

39 1944.9 42.2 63.4#



#57

1,3-Dichloropropane

Concen: 1.140 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063874.D

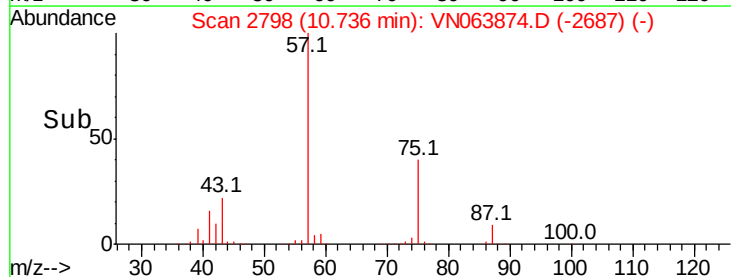
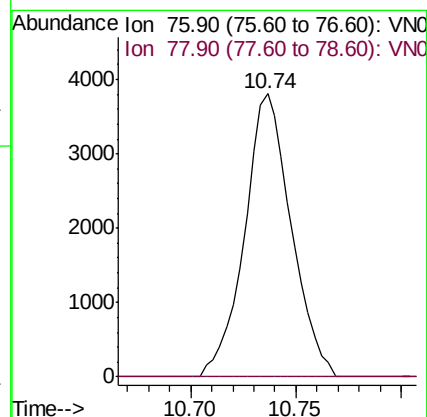
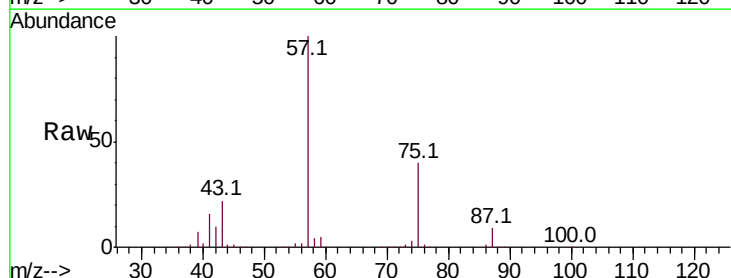
Acq: 5 Oct 2020 16:33

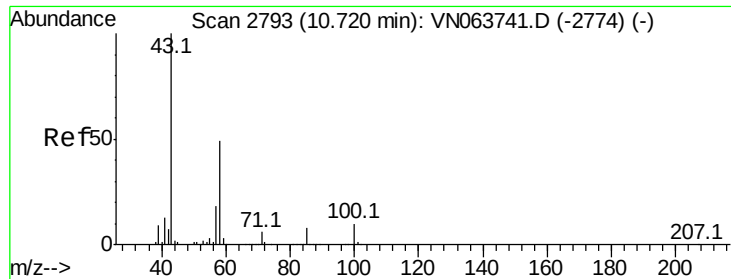
Tgt Ion: 76 Resp: 5849

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#





#59

2-Hexanone

Concen: 33.141 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063874.D

Acq: 5 Oct 2020 16:33

Instrument :

MSVOA_N

ClientSampleId :

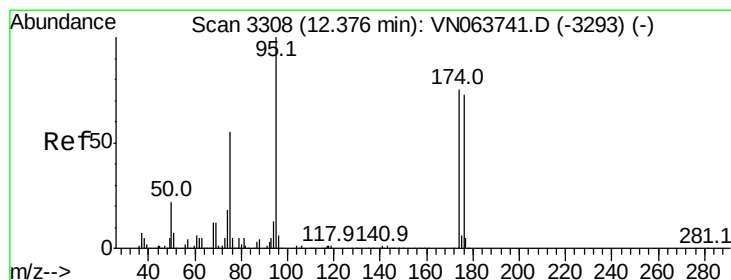
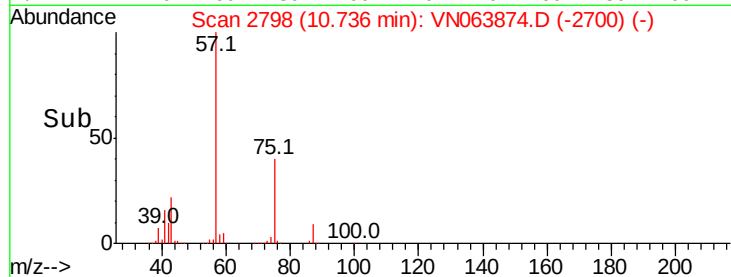
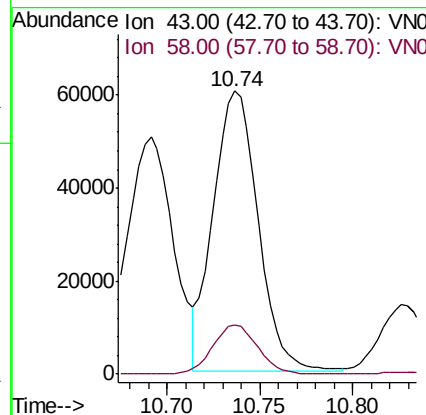
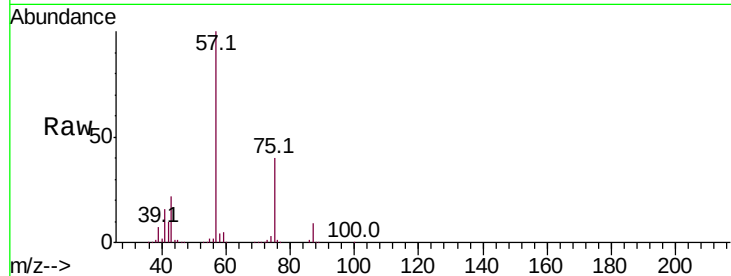
PB132063ZHE#06

Tot Ion: 43 Resp: 101331

Ion Ratio Lower Upper

43 100

58 17.6 24.6 73.8#



#62

4-Bromofluorobenzene

Concen: 50.821 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063874.D

Acq: 5 Oct 2020 16:33

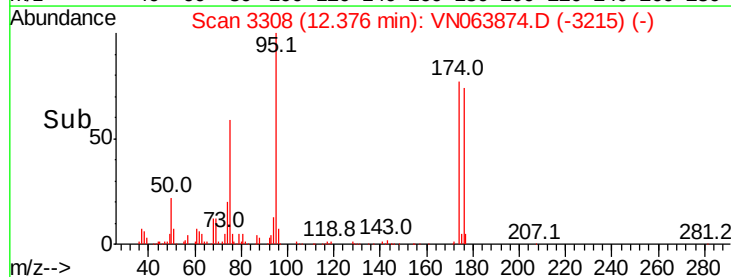
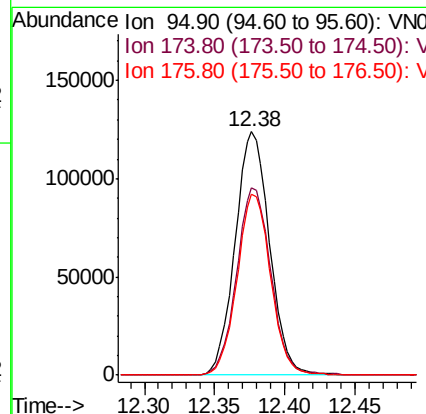
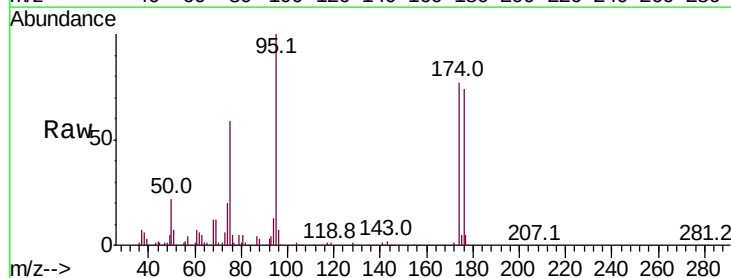
Tgt Ion: 95 Resp: 212290

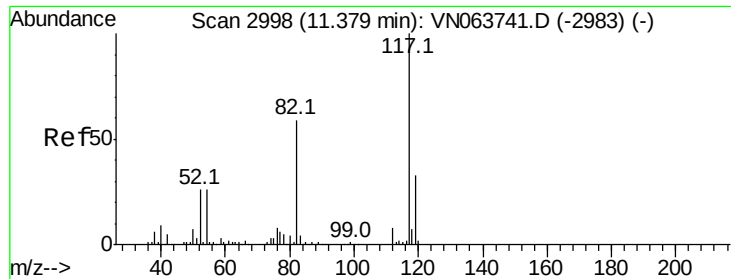
Ion Ratio Lower Upper

95 100

174 76.6 0.0 150.6

176 72.6 0.0 145.4

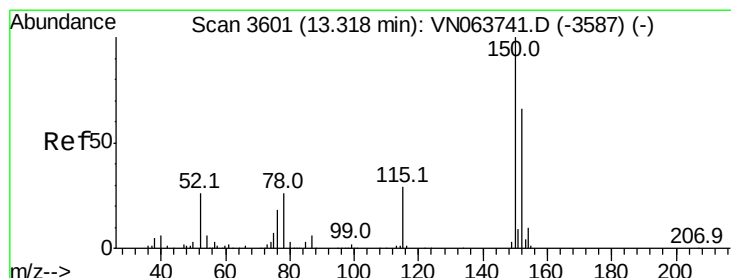
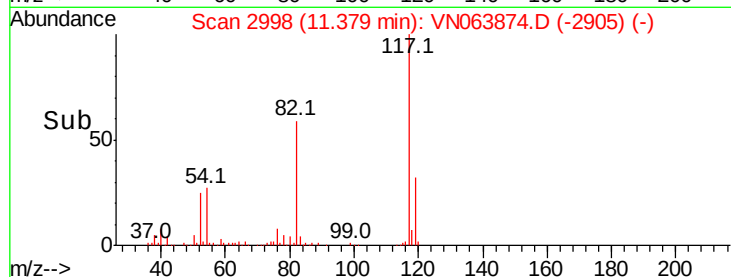
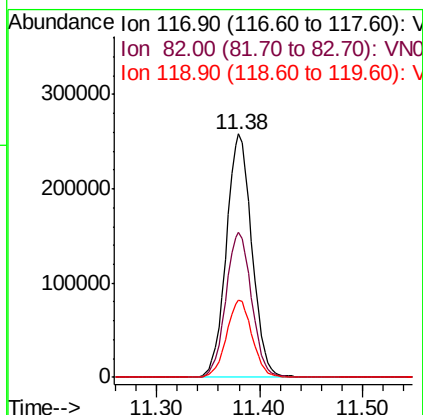
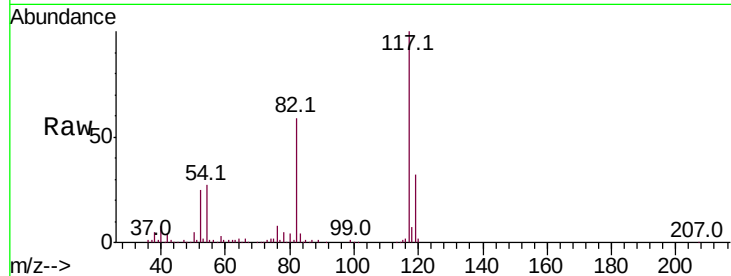




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063874.D
Acq: 5 Oct 2020 16:33

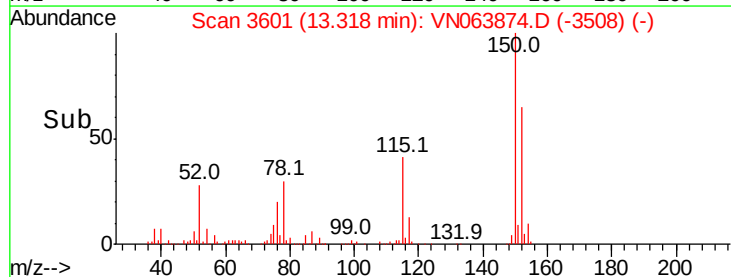
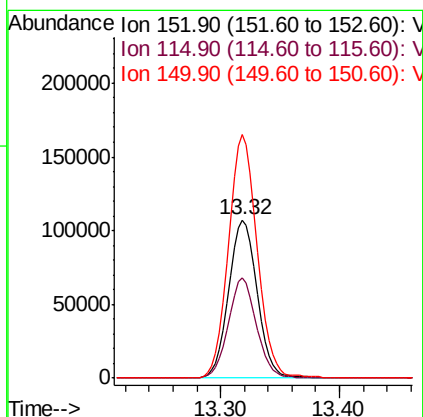
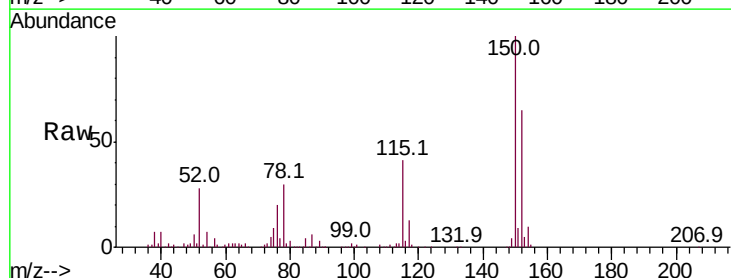
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#06

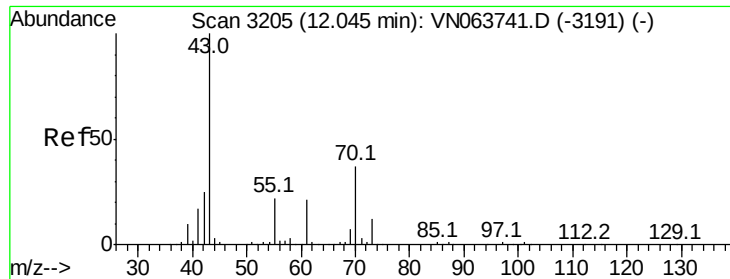
Tot Ion:117 Resp: 446512
Ion Ratio Lower Upper
117 100
82 59.5 47.4 71.2
119 31.9 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063874.D
Acq: 5 Oct 2020 16:33

Tgt Ion:152 Resp: 178635
Ion Ratio Lower Upper
152 100
115 62.7 31.3 93.8
150 154.5 0.0 341.8





#74

N-amyl acetate

Concen: 2.917 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN063874.D

Acq: 5 Oct 2020 16:33

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#06

Tot Ion: 43 Resp: 4445

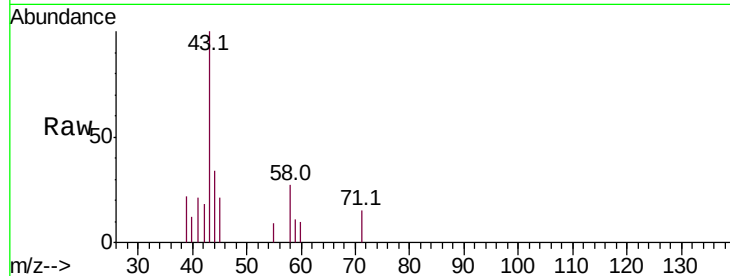
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 5.0 17.9 26.9#

61 0.0 17.0 25.4#

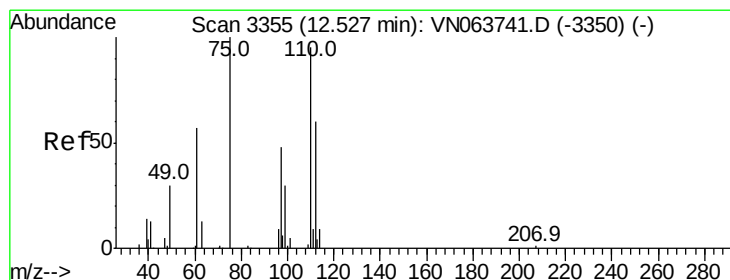
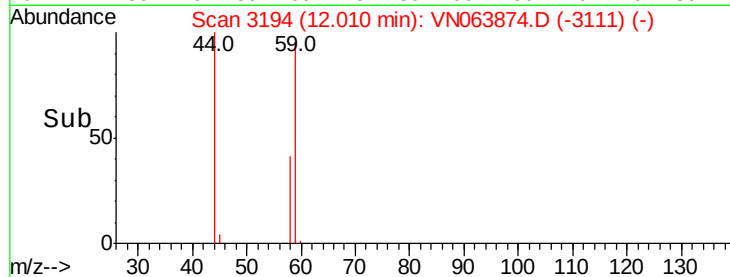
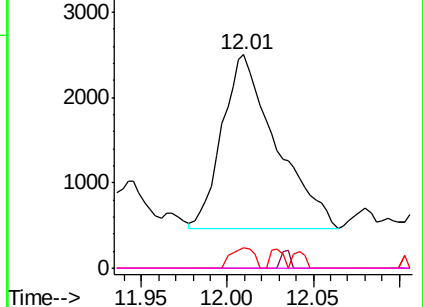


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 31.355 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063874.D

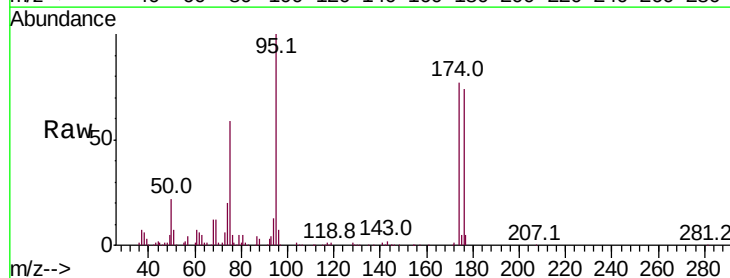
Acq: 5 Oct 2020 16:33

Tgt Ion: 75 Resp: 123472

Ion Ratio Lower Upper

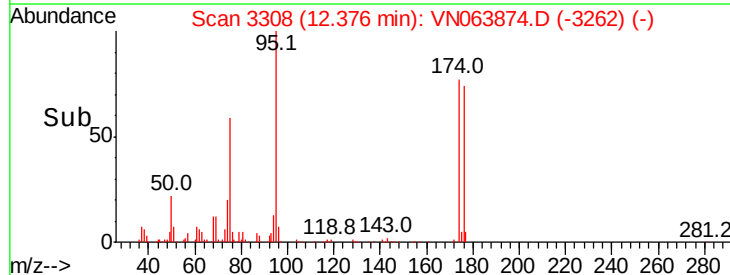
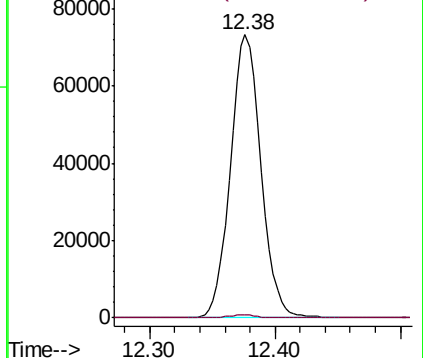
75 100

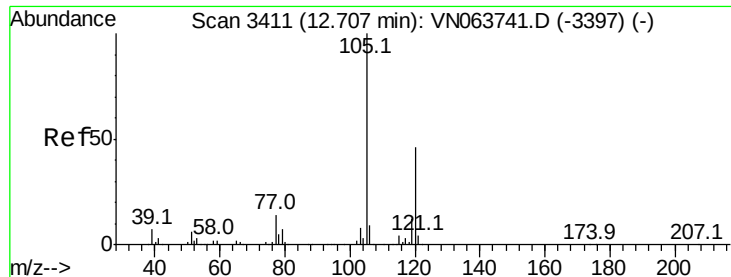
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

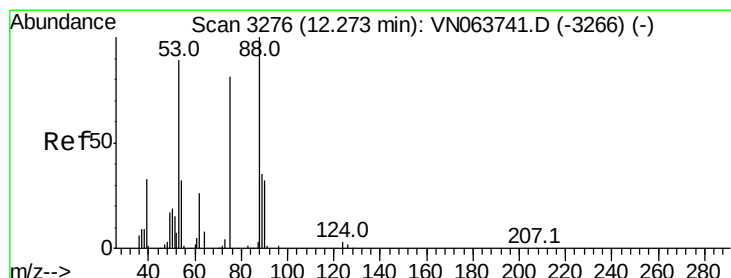
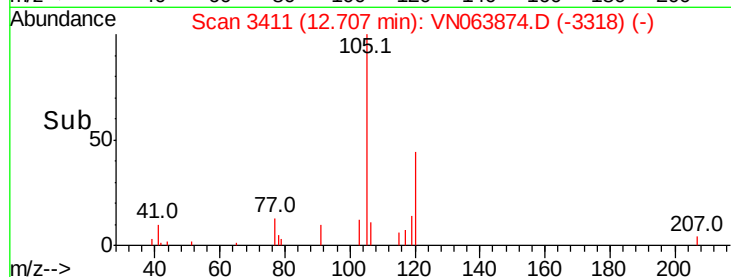
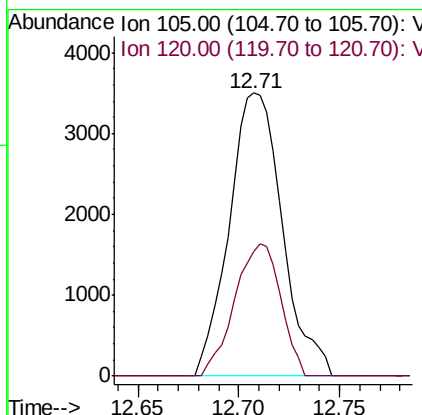
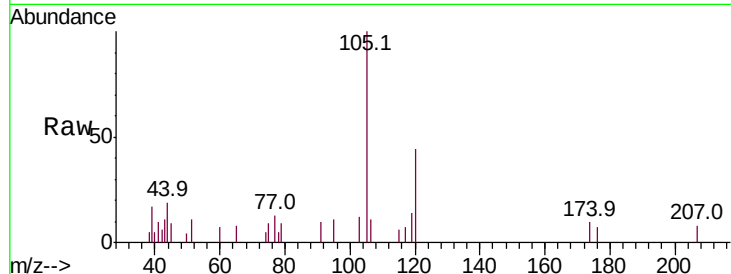




#80
 1,3,5-Trimethylbenzene
 Concen: 0.590 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN063874.D
 Acq: 5 Oct 2020 16:33

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#06

Tot Ion:105 Resp: 6445
 Ion Ratio Lower Upper
 105 100
 120 40.6 23.3 69.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 90.308 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063874.D
 Acq: 5 Oct 2020 16:33

Tgt Ion: 75 Resp: 123472
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.2 132.2#
 89 0.1 36.0 54.0#

