

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100520\
 Data File : VN063880.D
 Acq On : 5 Oct 2020 18:56
 Operator : JC/MD
 Sample : PB132063ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#12

Quant Time: Oct 06 01:40:31 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	217925	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	418541	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	438956	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	167545	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	193169	53.65	ug/l	0.00
Spiked Amount			Recovery	=	107.30%	
35) Dibromofluoromethane	7.55	113	138833	47.80	ug/l	0.00
Spiked Amount			Recovery	=	95.60%	
50) Toluene-d8	10.06	98	537262	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
62) 4-Bromofluorobenzene	12.38	95	204250	49.35	ug/l	0.00
Spiked Amount			Recovery	=	98.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	392	0.986	ug/l #	71
16) Acetone	3.78	43	10402	9.386	ug/l	91
18) Methyl Acetate	4.29	43	3285	1.142	ug/l #	84
20) Methylene Chloride	4.51	84	9293	3.752	ug/l	92
25) 2-Butanone	6.80	43	1599	1.018	ug/l	91
29) Tetrahydrofuran	7.18	42	1114	1.057	ug/l #	40
31) Cyclohexane	7.63	56	6503	1.556	ug/l #	12
36) 1,1-Dichloropropene	7.63	75	20454	4.824	ug/l #	49
38) Carbon Tetrachloride	7.63	117	24488	5.150	ug/l #	15
43) Isopropyl Acetate	8.13	43	85075	12.243	ug/l	98
45) 1,2-Dichloropropane	9.24	63	1681	0.514	ug/l #	44
48) Methyl methacrylate	9.23	41	156813	45.677	ug/l #	47
49) 1,4-Dioxane	9.23	88	156	3.197	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	7823	1.918	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	33369	6.401	ug/l #	68
56) Ethyl methacrylate	10.51	69	2508	0.589	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6312	1.242	ug/l #	43
59) 2-Hexanone	10.74	43	103645	34.215	ug/l #	53
74) N-amyl acetate	12.01	43	2608	2.655	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	116589	31.567	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3439	0.335	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.38	75	116589	90.919	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

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ClientSampleId :

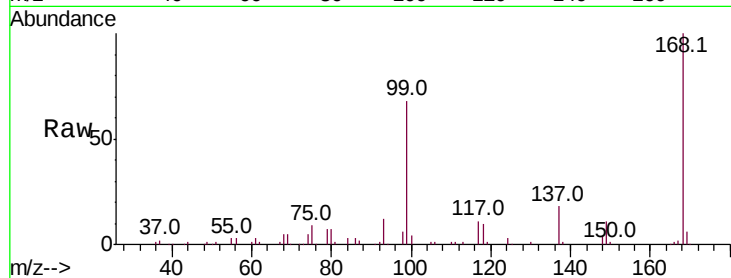
PB132063ZHE#12

Tot Ion:168 Resp: 217925

Ion Ratio Lower Upper

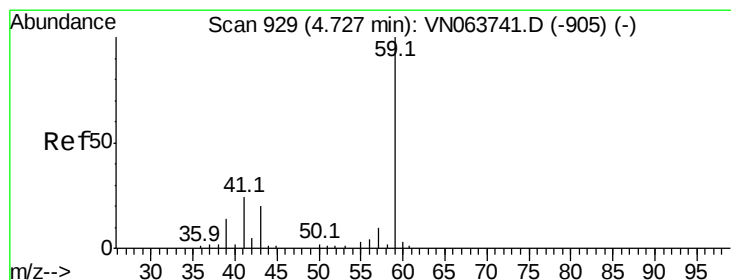
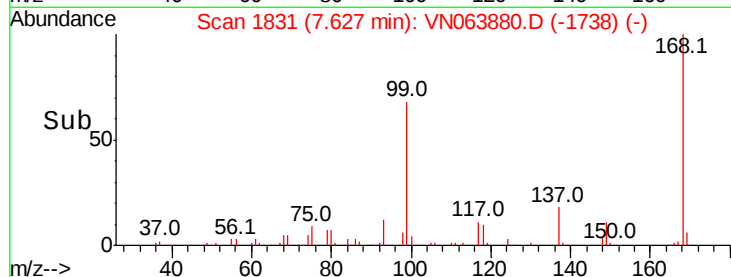
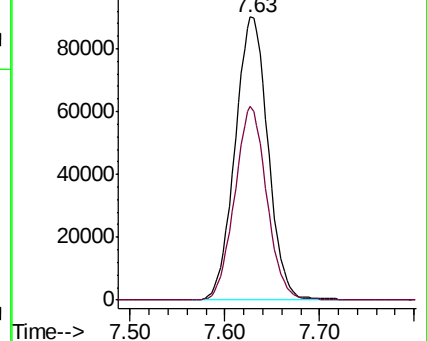
168 100

99 68.4 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.986 ug/l

RT: 4.72 min Scan# 928

Delta R.T. -0.00 min

Lab File: VN063880.D

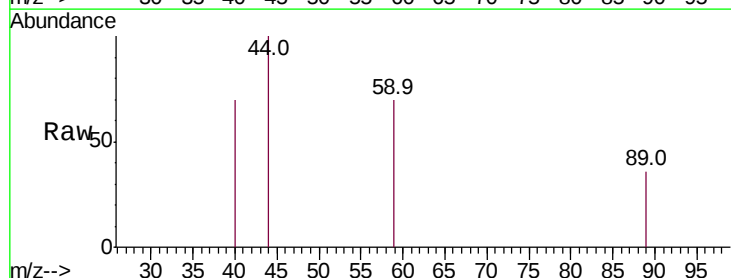
Acq: 5 Oct 2020 18:56

Tgt Ion: 59 Resp: 392

Ion Ratio Lower Upper

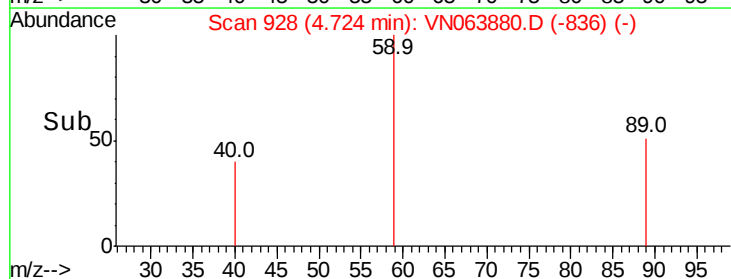
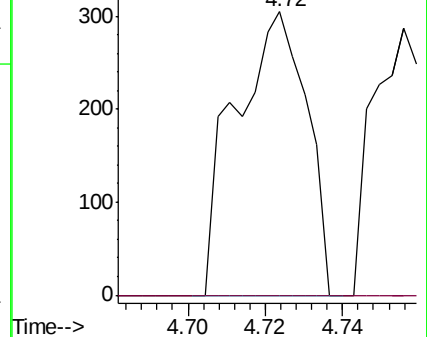
59 100

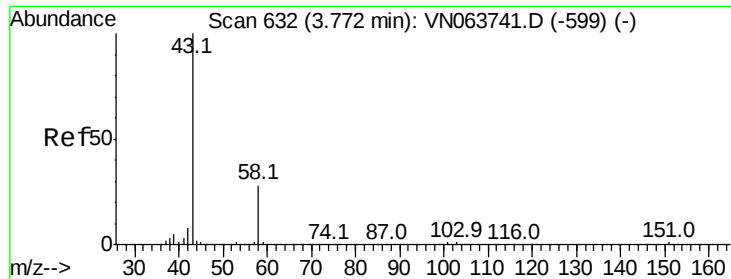
57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 9.386 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063880.D

Acq: 5 Oct 2020 18:56

Instrument :

MSVOA_N

ClientSampleId :

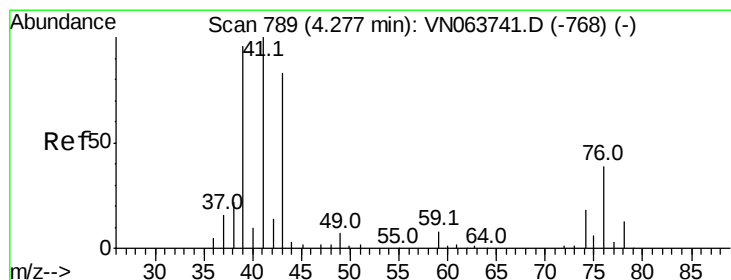
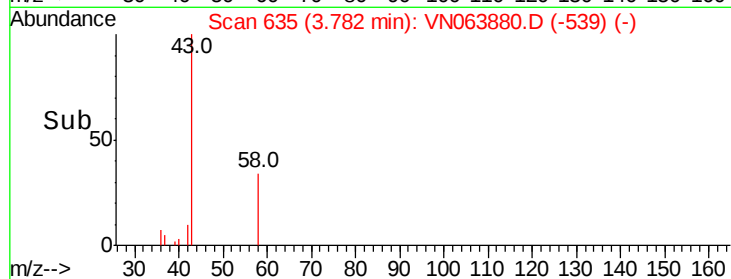
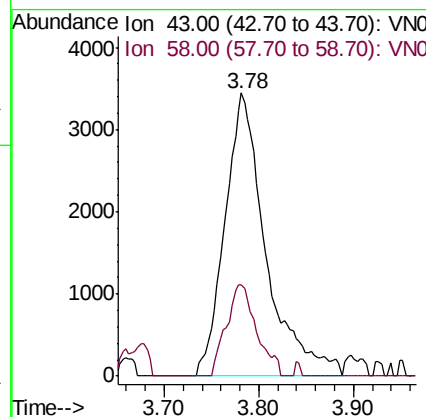
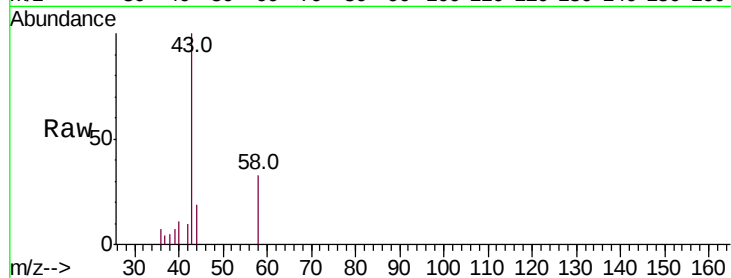
PB132063ZHE#12

Tot Ion: 43 Resp: 10402

Ion Ratio Lower Upper

43 100

58 32.5 22.3 33.5



#18

Methyl Acetate

Concen: 1.142 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN063880.D

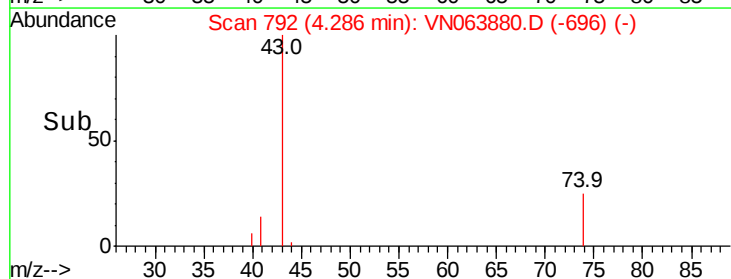
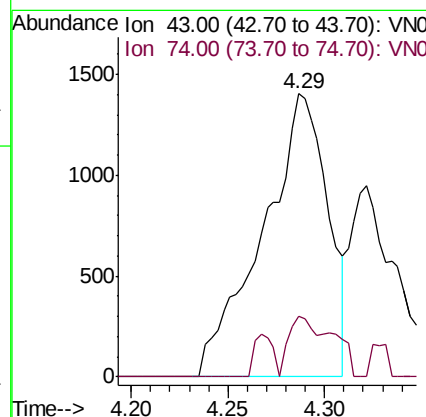
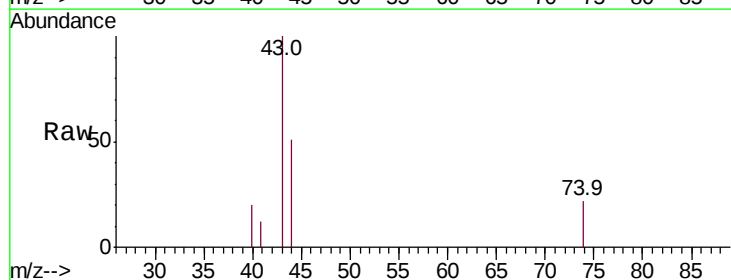
Acq: 5 Oct 2020 18:56

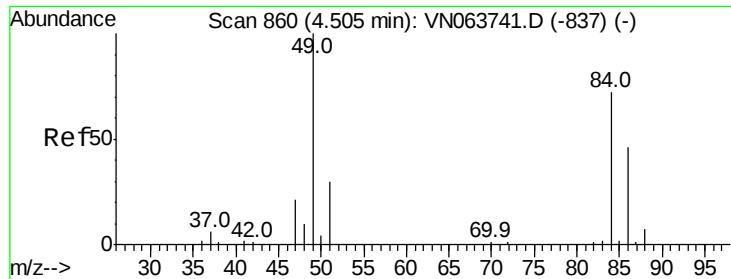
Tgt Ion: 43 Resp: 3285

Ion Ratio Lower Upper

43 100

74 14.3 17.4 26.2#





#20

Methvlene Chloride

Concen: 3.752 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.00 min

Lab File: VN063880.D

Acq: 5 Oct 2020 18:56

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#12

Tot Ion: 84 Resp: 9293

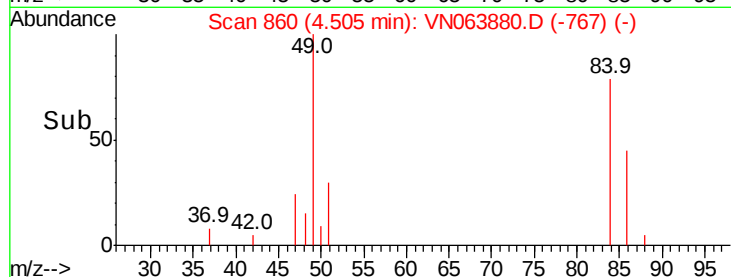
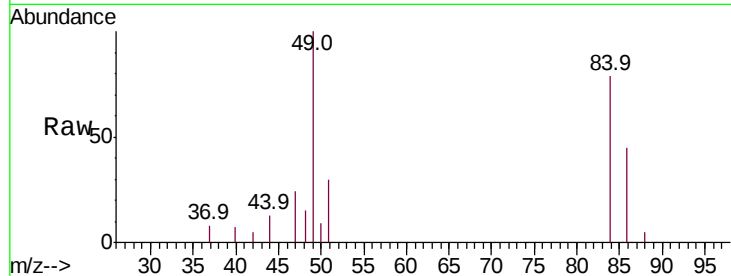
Ion Ratio Lower Upper

84 100

49 126.6 110.4 165.6

51 38.1 33.3 49.9

86 57.4 50.7 76.1

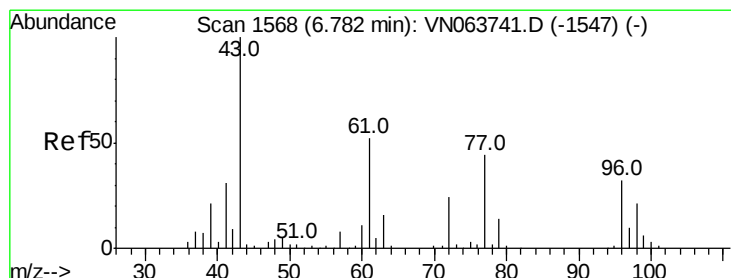
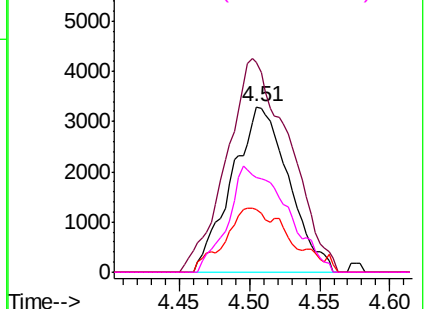


Abundance Ion 83.90 (83.60 to 84.60): VN0

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: 1.018 ug/l

RT: 6.80 min Scan# 1573

Delta R.T. 0.02 min

Lab File: VN063880.D

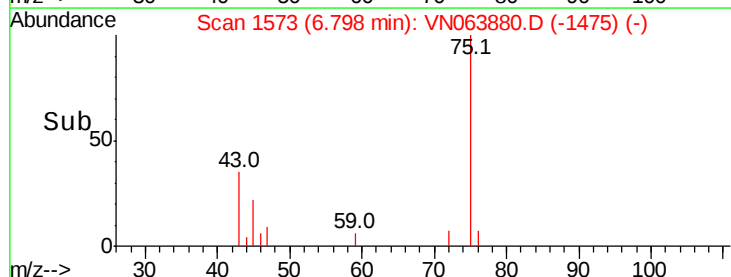
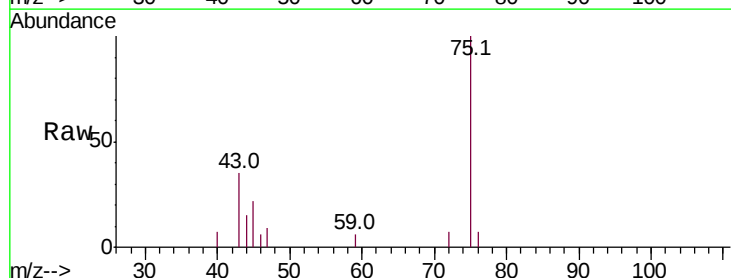
Acq: 5 Oct 2020 18:56

Tgt Ion: 43 Resp: 1599

Ion Ratio Lower Upper

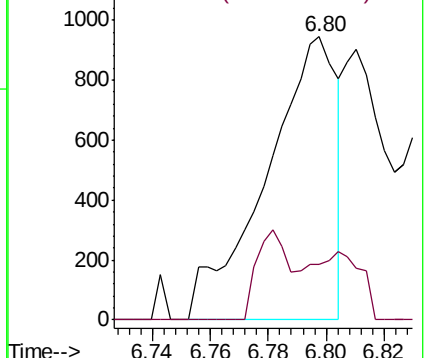
43 100

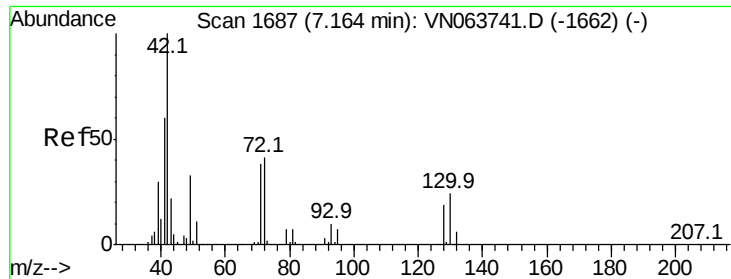
72 19.8 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 1.057 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN063880.D

Acq: 5 Oct 2020 18:56

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ClientSampleId :

PB132063ZHE#12

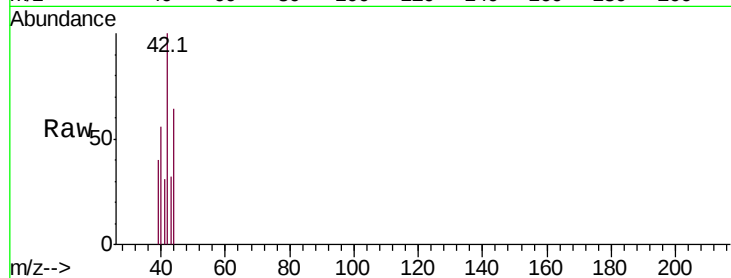
Tot Ion: 42 Resp: 1114

Ion Ratio Lower Upper

42 100

72 5.8 32.8 49.2#

71 0.0 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

7.18

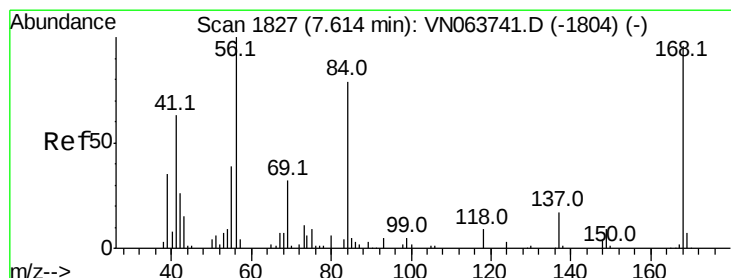
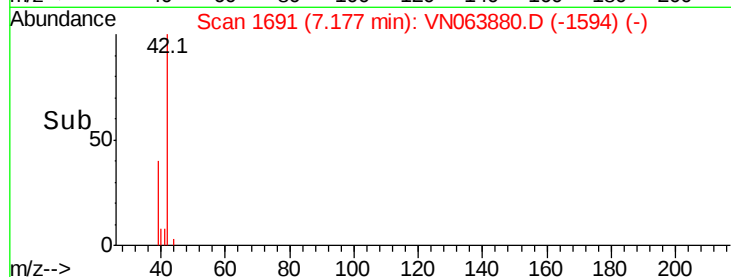
600

400

200

0

Time-->



#31

Cyclohexane

Concen: 1.556 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063880.D

Acq: 5 Oct 2020 18:56

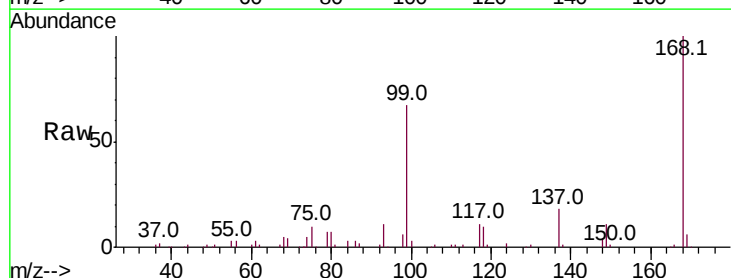
Tgt Ion: 56 Resp: 6503

Ion Ratio Lower Upper

56 100

69 162.8 25.4 38.2#

84 104.7 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

7.63

4000

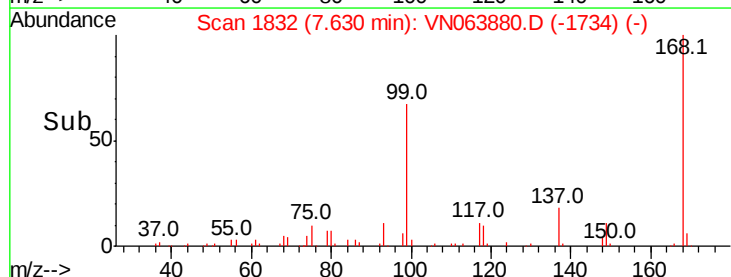
3000

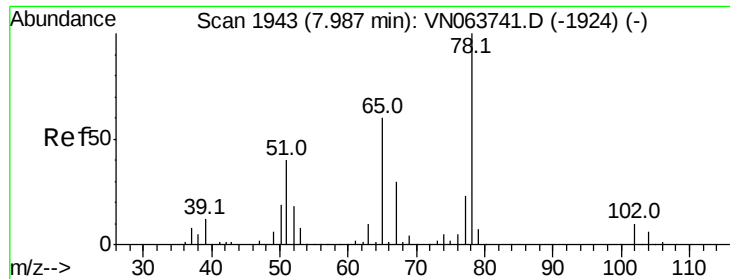
2000

1000

0

Time-->

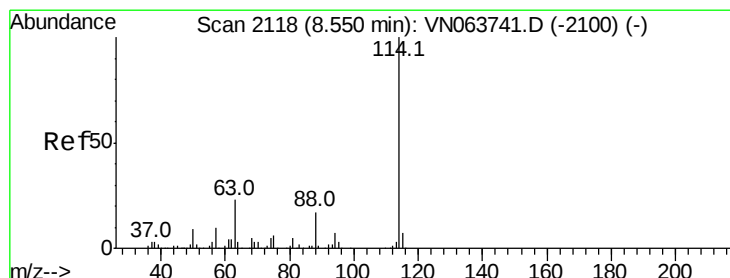
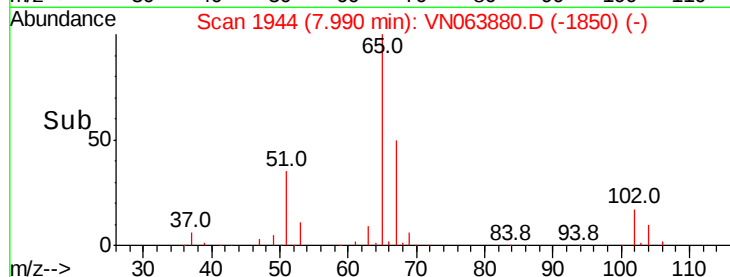
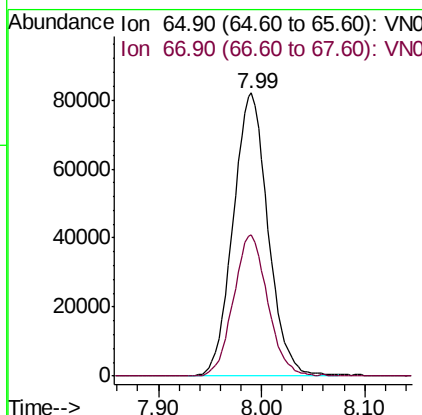
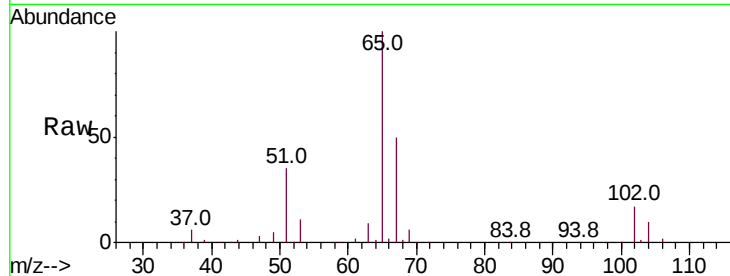




#33
 1,2-Dichloroethane-d4
 Concen: 53.654 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063880.D
 Acq: 5 Oct 2020 18:56

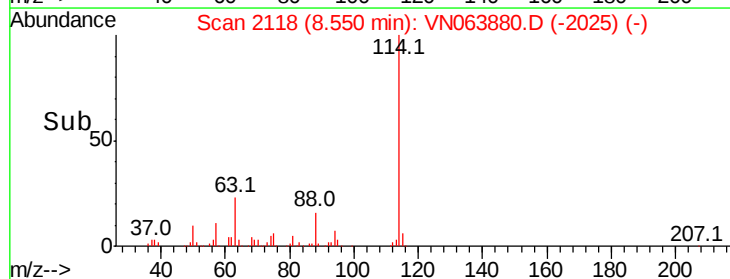
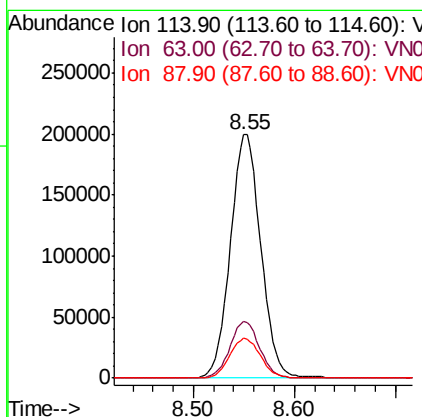
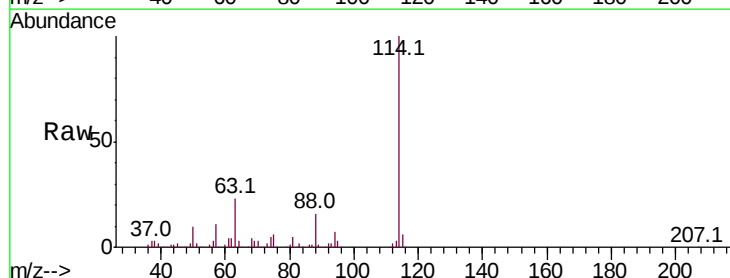
Instrument :
 MSVOA_N
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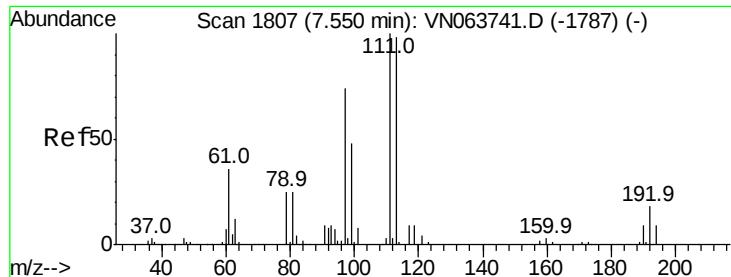
Tot Ion: 65 Resp: 193169
 Ion Ratio Lower Upper
 65 100
 67 48.9 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063880.D
 Acq: 5 Oct 2020 18:56

Tgt Ion: 114 Resp: 418541
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 45.0
 88 16.3 0.0 34.0

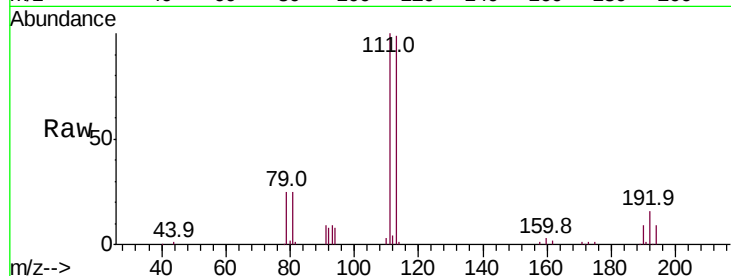




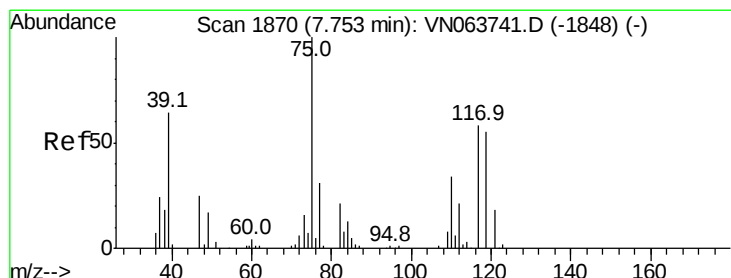
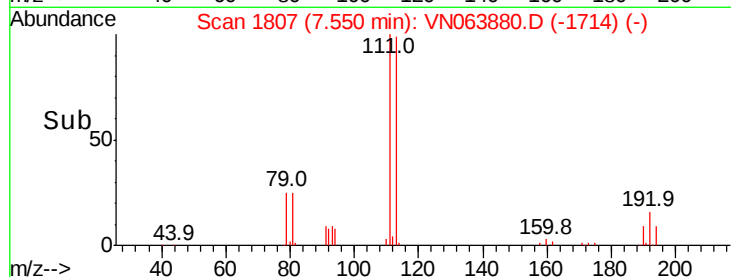
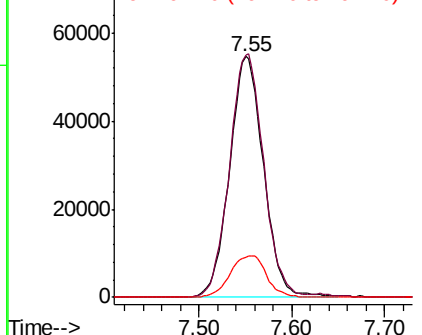
#35
 Dibromofluoromethane
 Concen: 47.805 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063880.D
 Acq: 5 Oct 2020 18:56

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132063ZHE#12

Tot Ion:113 Resp: 138833
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.8 122.8
 192 18.3 14.2 21.2

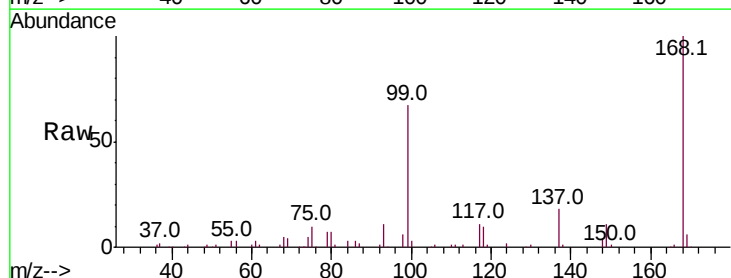


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

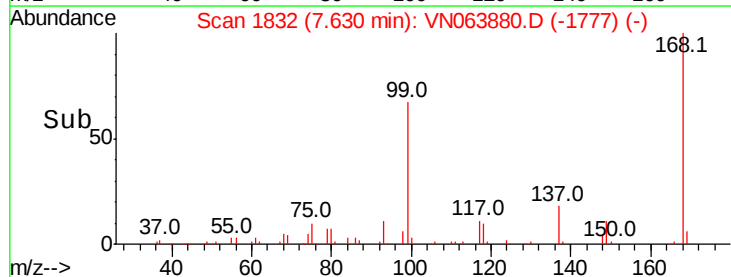
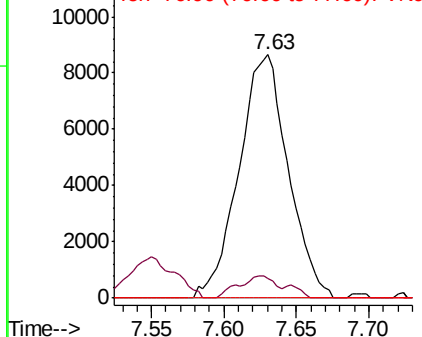


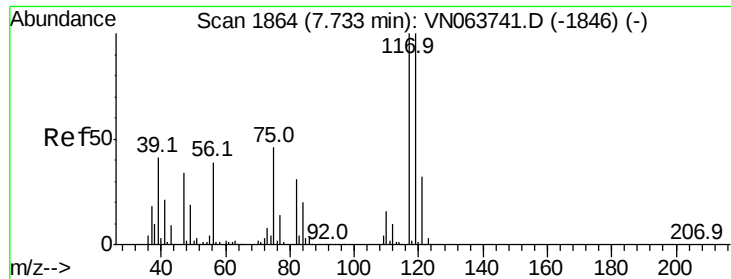
#36
 1,1-Dichloropropene
 Concen: 4.824 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.12 min
 Lab File: VN063880.D
 Acq: 5 Oct 2020 18:56

Tgt Ion: 75 Resp: 20454
 Ion Ratio Lower Upper
 75 100
 110 6.8 16.9 50.6#
 77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.150 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN063880.D

Acq: 5 Oct 2020 18:56

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#12

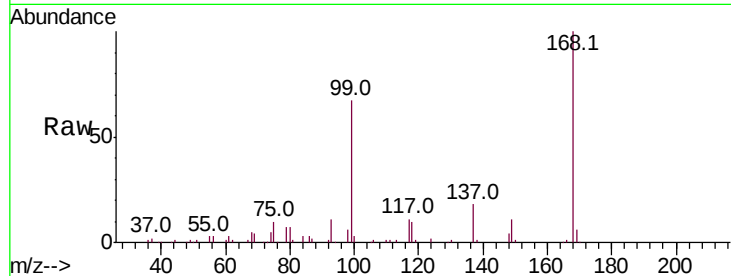
Tot Ion:117 Resp: 24488

Ion Ratio Lower Upper

117 100

119 6.3 80.1 120.1#

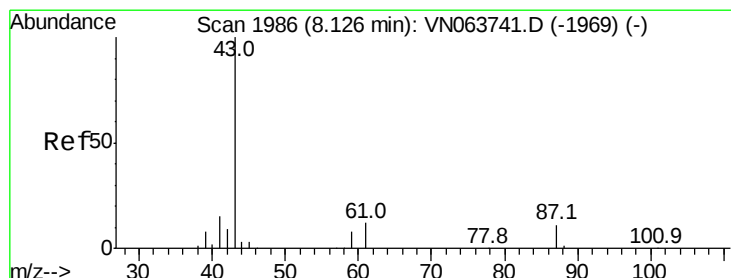
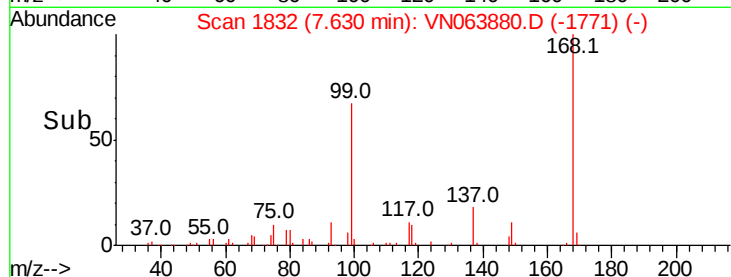
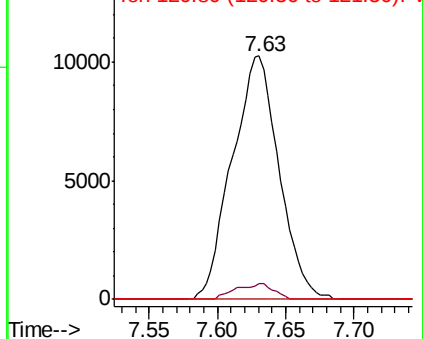
121 0.0 25.7 38.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 12.243 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063880.D

Acq: 5 Oct 2020 18:56

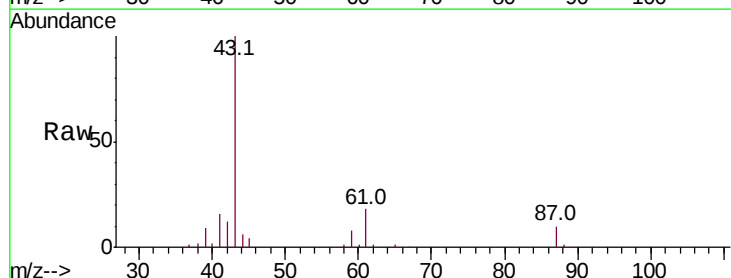
Tgt Ion: 43 Resp: 85075

Ion Ratio Lower Upper

43 100

61 16.7 14.2 21.4

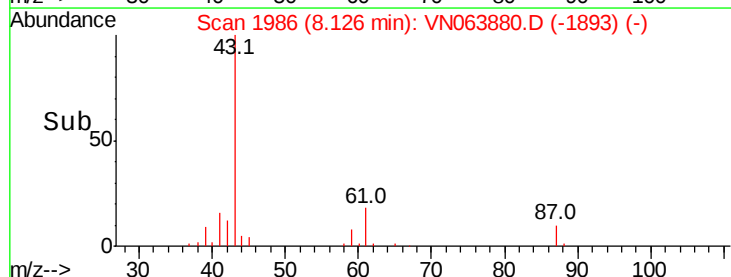
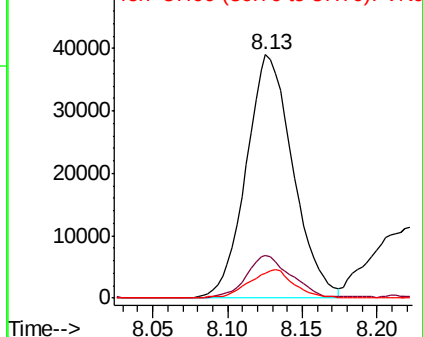
87 11.2 9.0 13.6

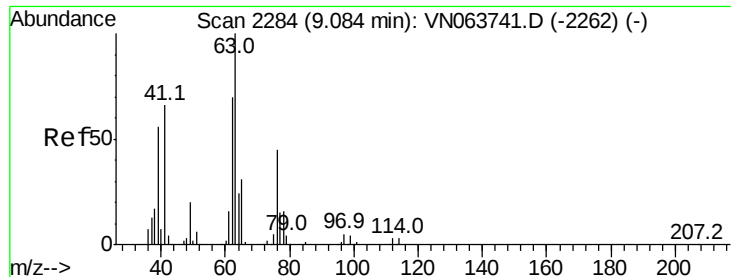


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.514 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063880.D

Acq: 5 Oct 2020 18:56

Instrument :

MSVOA_N

ClientSampleId :

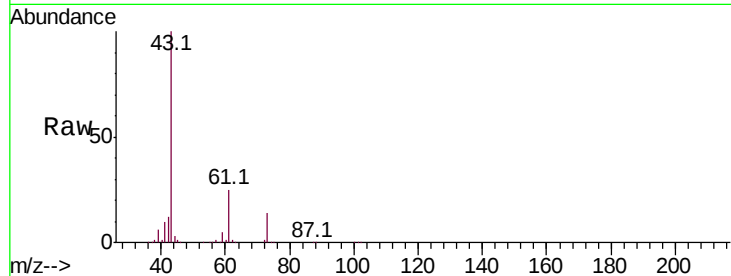
PB132063ZHE#12

Tot Ion: 63 Resp: 1681

Ion Ratio Lower Upper

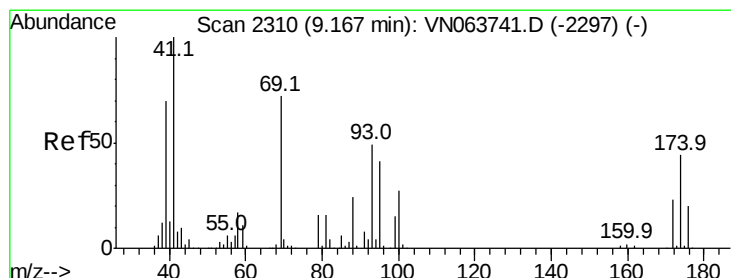
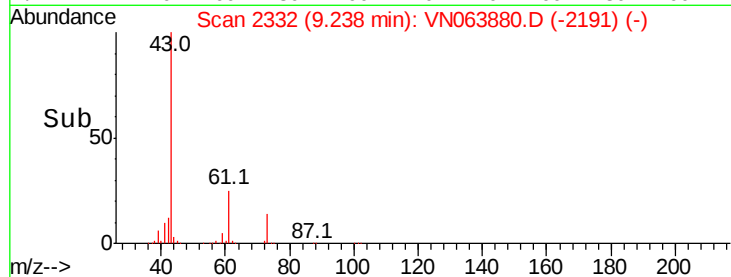
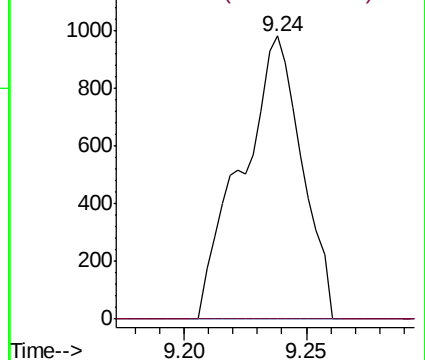
63 100

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: 45.677 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN063880.D

Acq: 5 Oct 2020 18:56

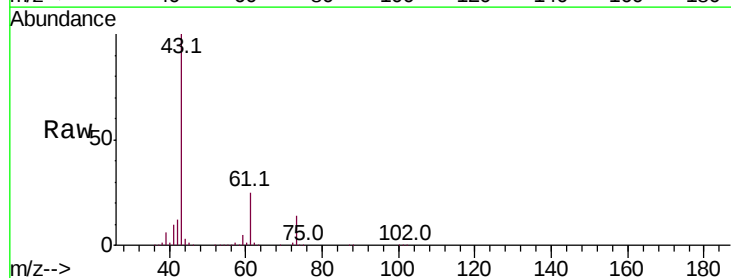
Tgt Ion: 41 Resp: 156813

Ion Ratio Lower Upper

41 100

69 0.1 60.9 91.3#

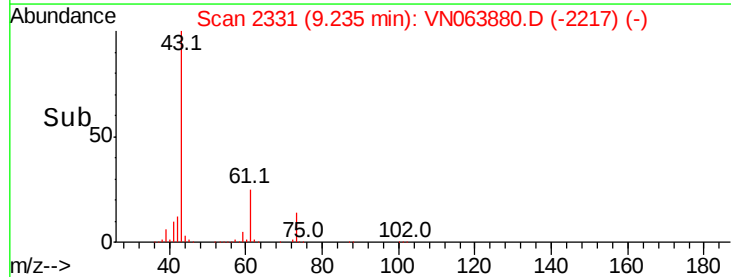
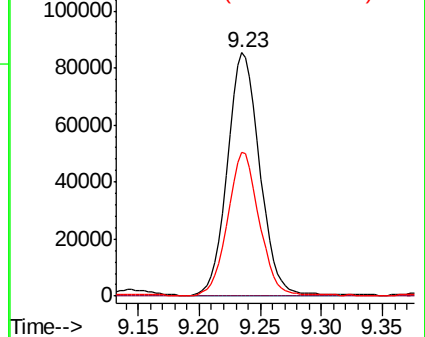
39 58.4 57.5 86.3

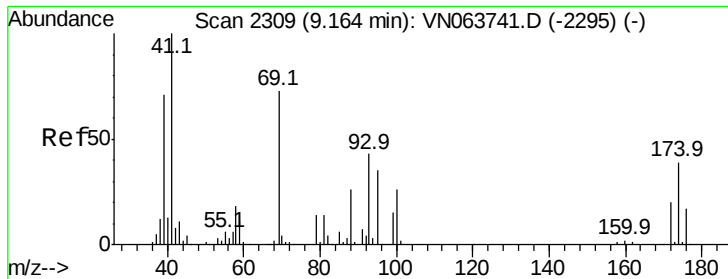


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 3.197 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN063880.D

Acq: 5 Oct 2020 18:56

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#12

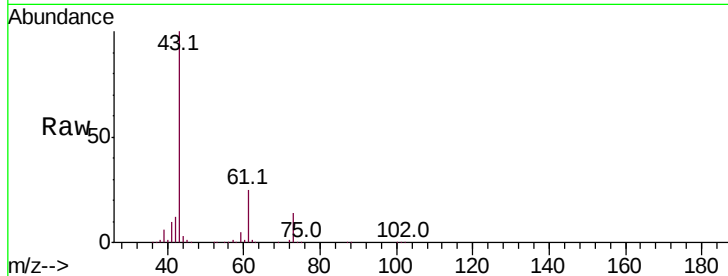
Tot Ion: 88 Resp: 156

Ion Ratio Lower Upper

88 100

43 972752.6 33.1 49.7#

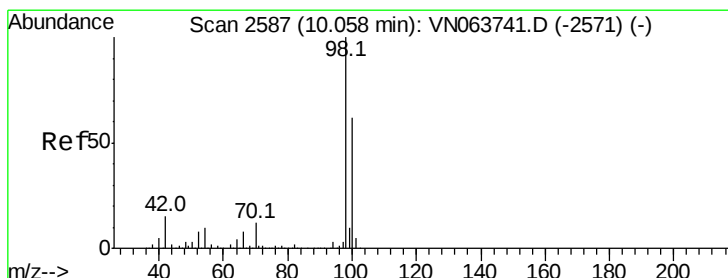
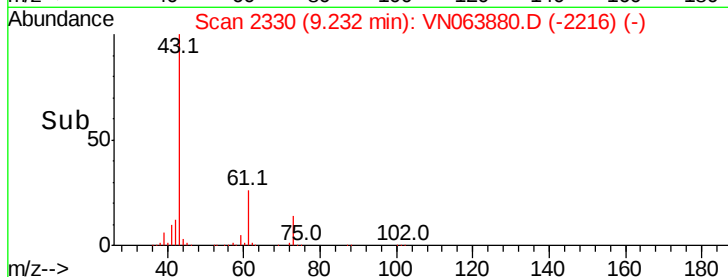
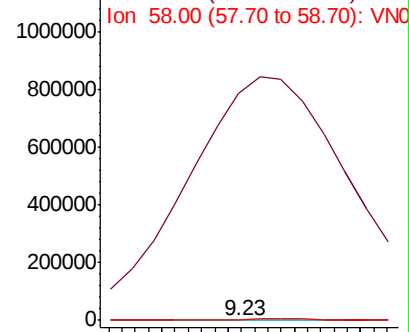
58 4992.3 58.9 88.3#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.801 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063880.D

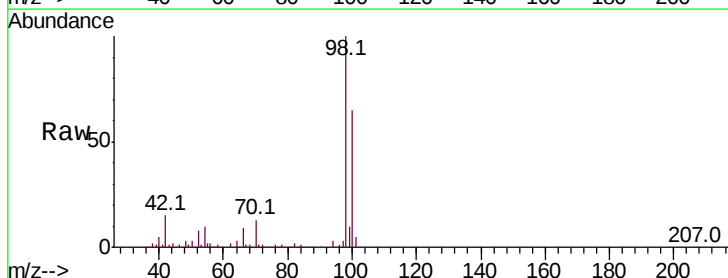
Acq: 5 Oct 2020 18:56

Tgt Ion: 98 Resp: 537262

Ion Ratio Lower Upper

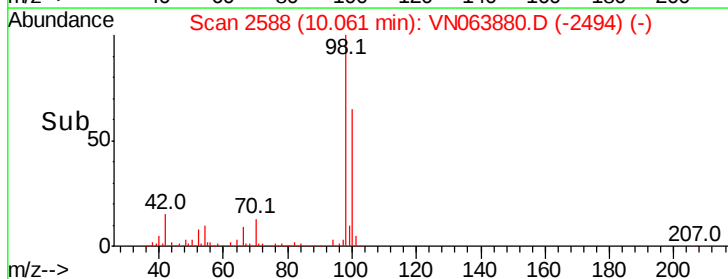
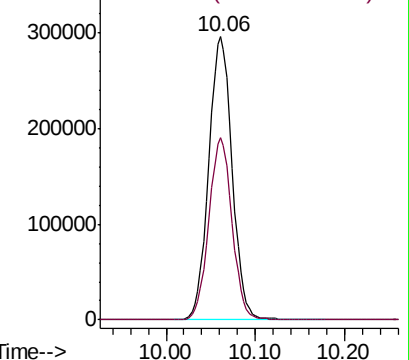
98 100

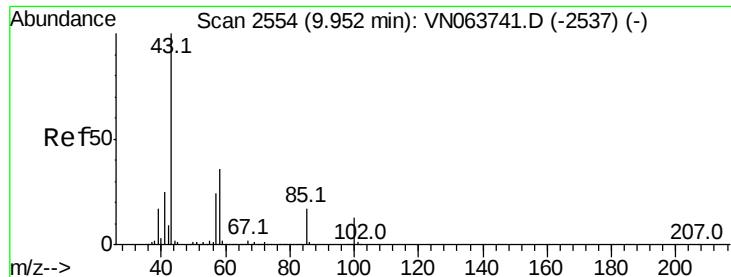
100 63.9 49.8 74.6



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: 1.918 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063880.D

Acq: 5 Oct 2020 18:56

Instrument :

MSVOA_N

ClientSampleId :

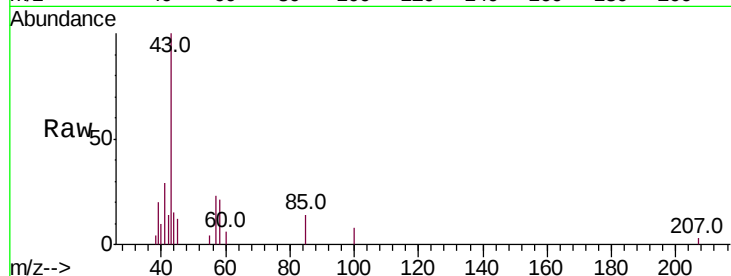
PB132063ZHE#12

Tot Ion: 43 Resp: 7823

Ion Ratio Lower Upper

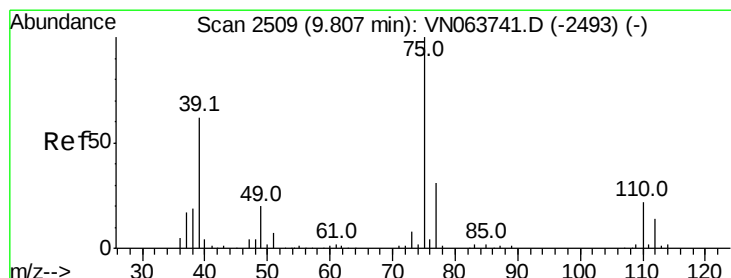
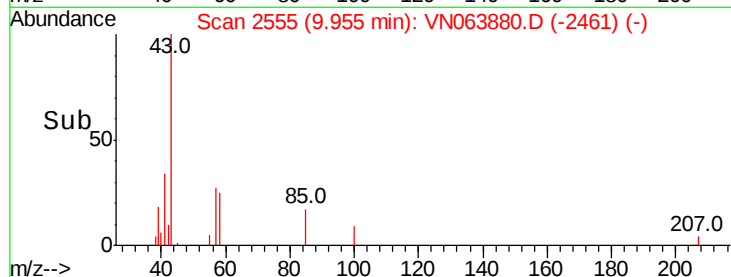
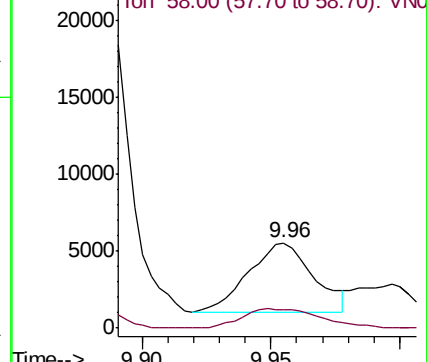
43 100

58 34.0 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN063741.D (-2537) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.401 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063880.D

Acq: 5 Oct 2020 18:56

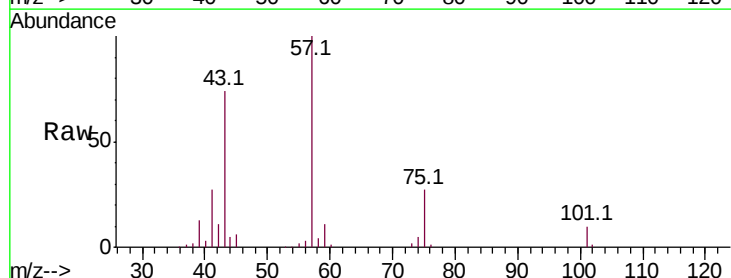
Tgt Ion: 75 Resp: 33369

Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

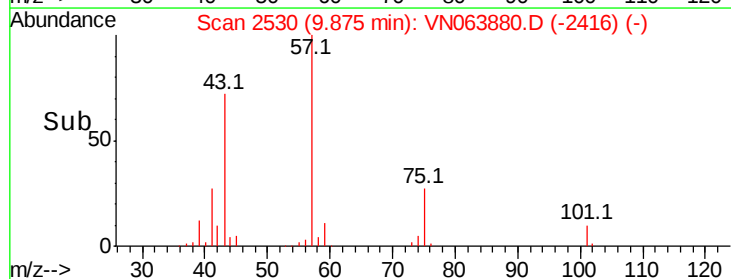
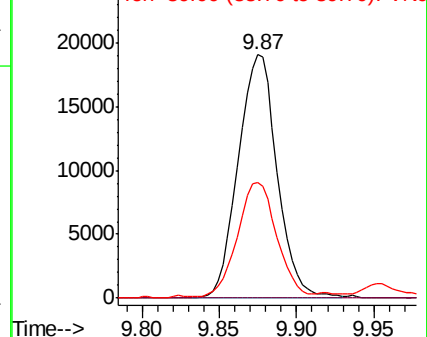
39 46.8 49.7 74.5#

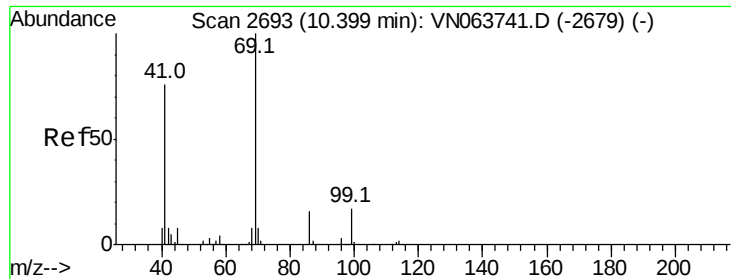


Abundance Ion 74.90 (74.60 to 75.60): VN063741.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN063741.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN063741.D (-2493) (-)





#56

Ethyl methacrylate

Concen: 0.589 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063880.D

Acq: 5 Oct 2020 18:56

Instrument :

MSVOA_N

ClientSampleId :

PB132063ZHE#12

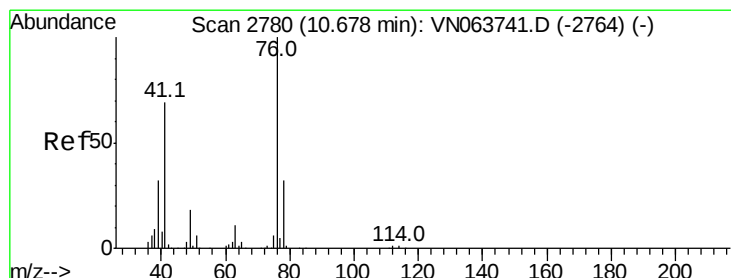
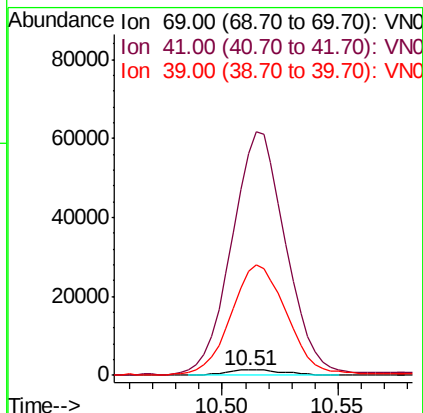
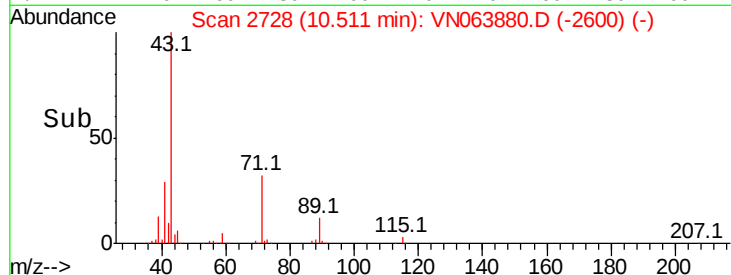
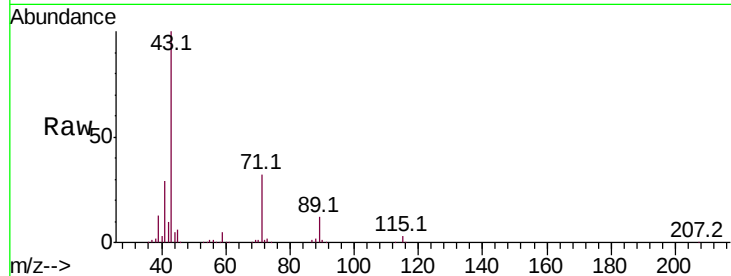
Tot Ion: 69 Resp: 2508

Ion Ratio Lower Upper

69 100

41 4038.2 61.1 91.7#

39 1879.2 42.2 63.4#



#57

1,3-Dichloropropane

Concen: 1.242 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063880.D

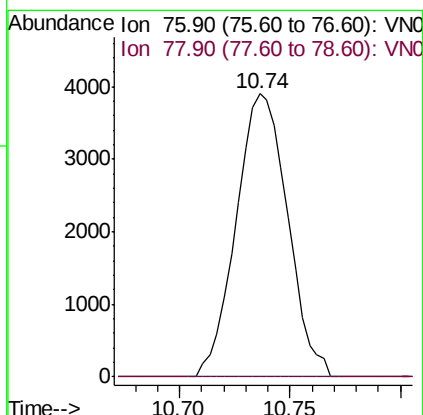
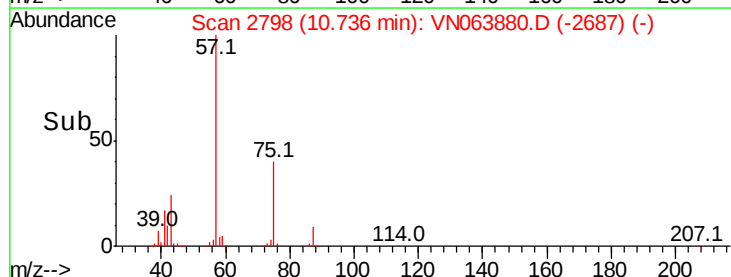
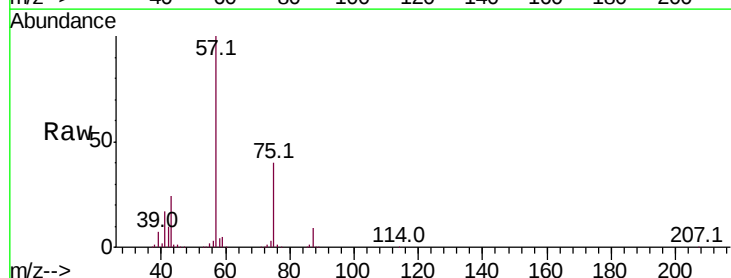
Acq: 5 Oct 2020 18:56

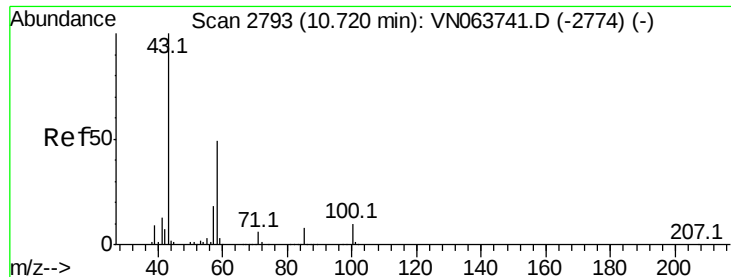
Tgt Ion: 76 Resp: 6312

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#

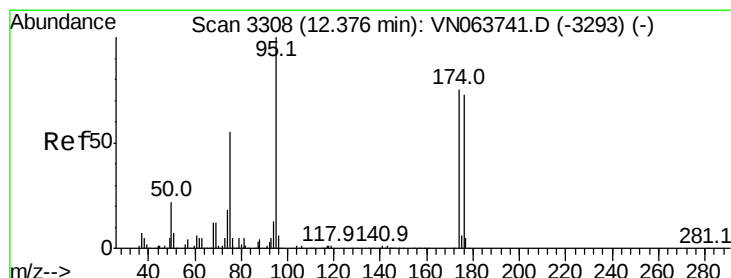
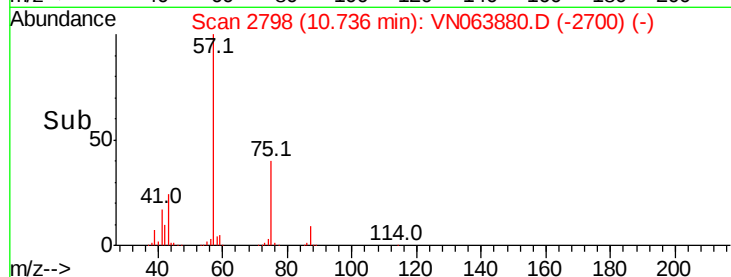
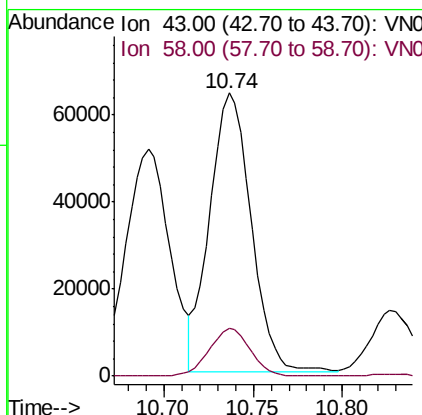
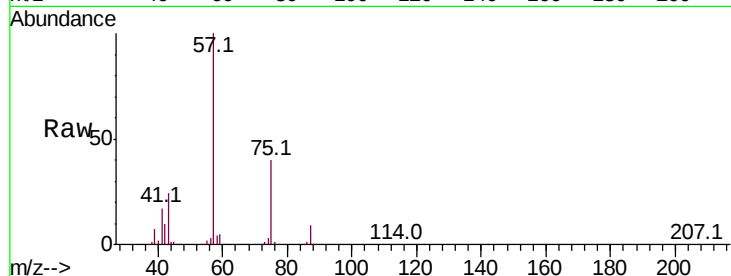




#59
2-Hexanone
Concen: 34.215 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063880.D
Acq: 5 Oct 2020 18:56

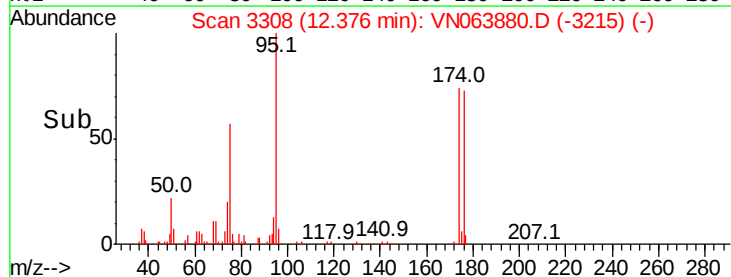
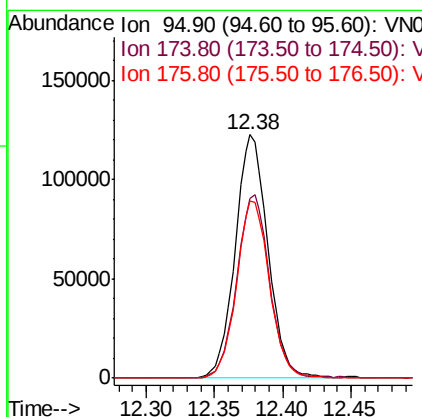
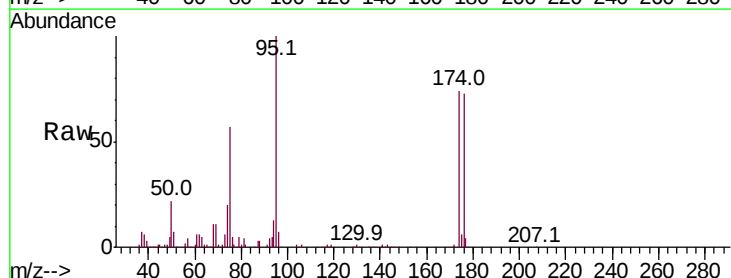
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#12

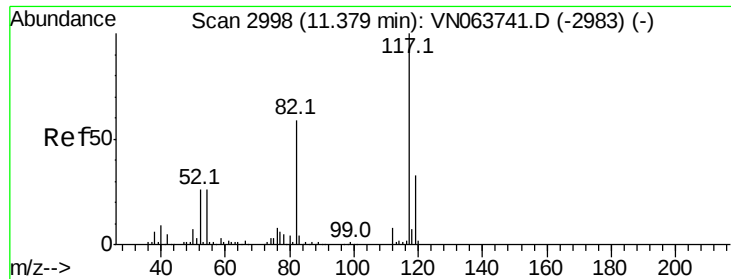
Tot Ion: 43 Resp: 103645
Ion Ratio Lower Upper
43 100
58 17.0 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 49.353 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063880.D
Acq: 5 Oct 2020 18:56

Tgt Ion: 95 Resp: 204250
Ion Ratio Lower Upper
95 100
174 75.5 0.0 150.6
176 73.2 0.0 145.4

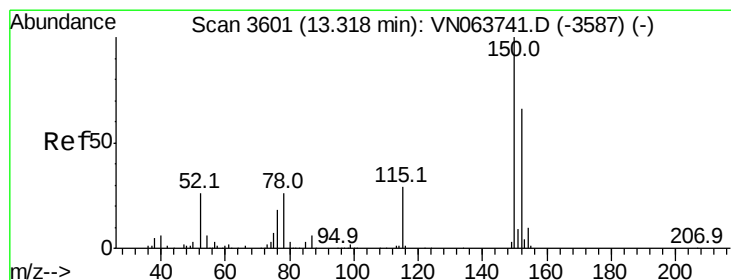
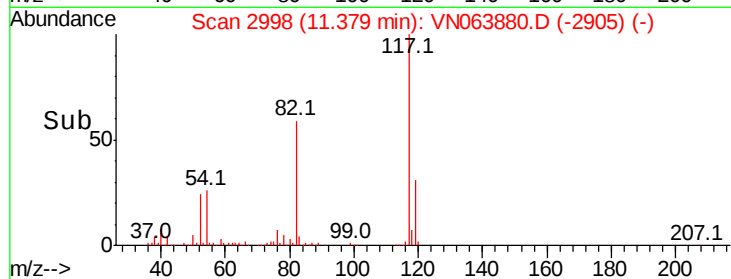
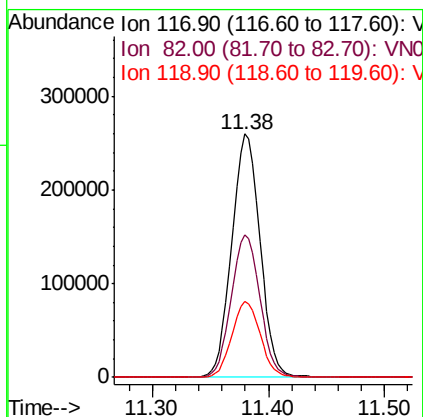
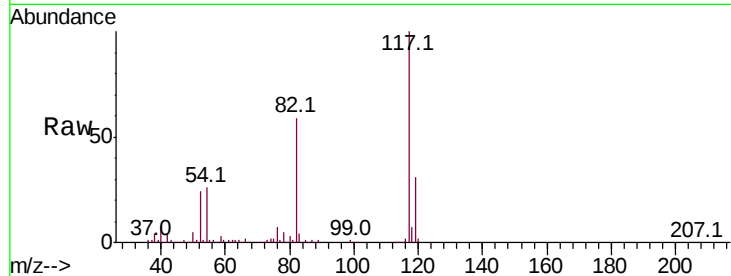




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063880.D
Acq: 5 Oct 2020 18:56

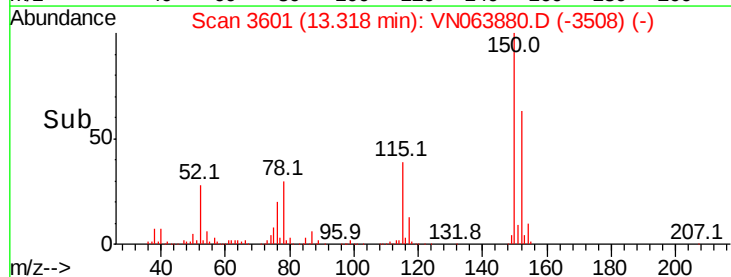
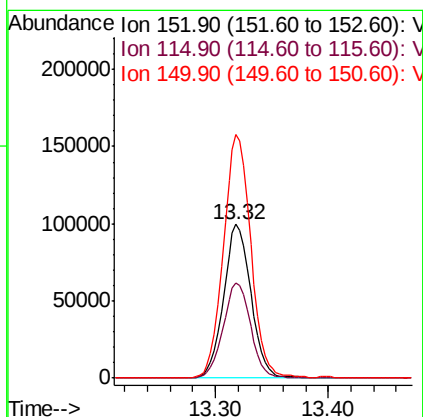
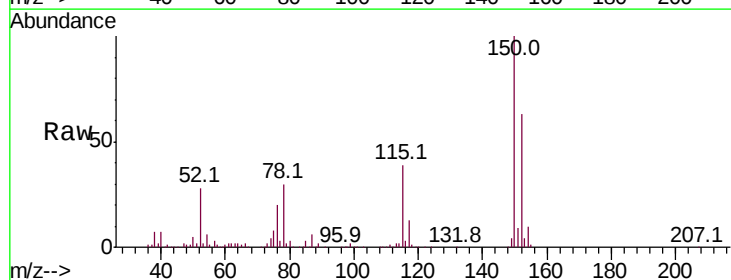
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#12

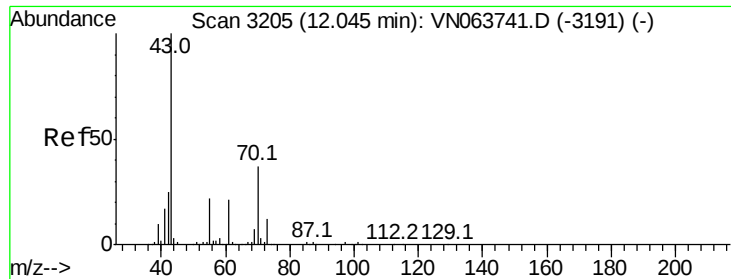
Tot Ion:117 Resp: 438956
Ion Ratio Lower Upper
117 100
82 58.5 47.4 71.2
119 31.2 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063880.D
Acq: 5 Oct 2020 18:56

Tgt Ion:152 Resp: 167545
Ion Ratio Lower Upper
152 100
115 61.8 31.3 93.8
150 158.5 0.0 341.8

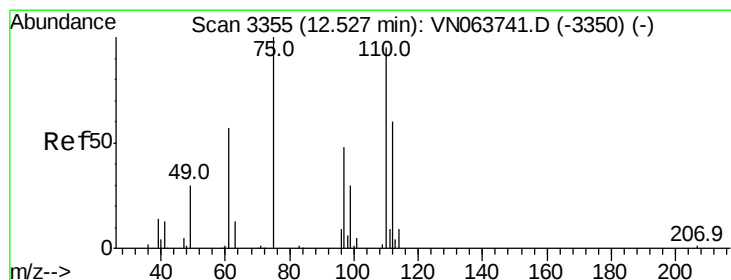
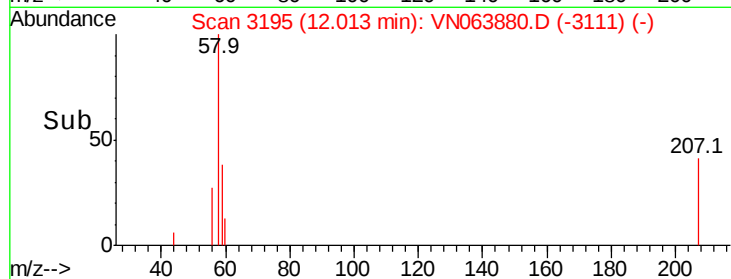
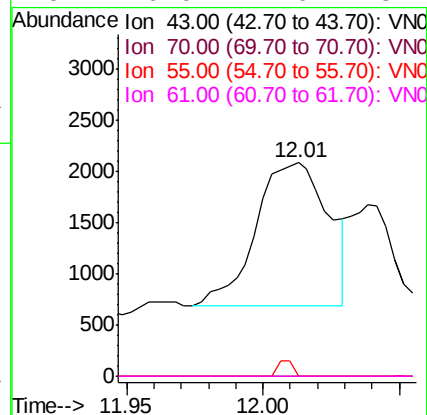
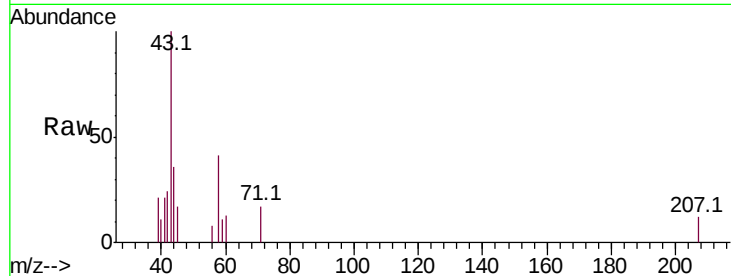




#74
N-amyl acetate
Concen: 2.655 ug/l
RT: 12.01 min Scan# 3195
Delta R.T. -0.03 min
Lab File: VN063880.D
Acq: 5 Oct 2020 18:56

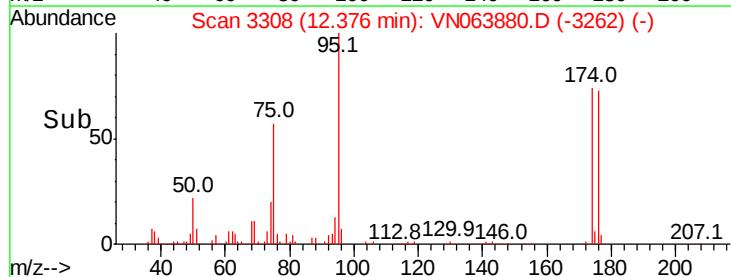
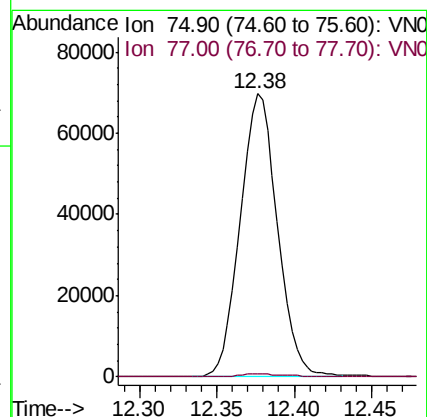
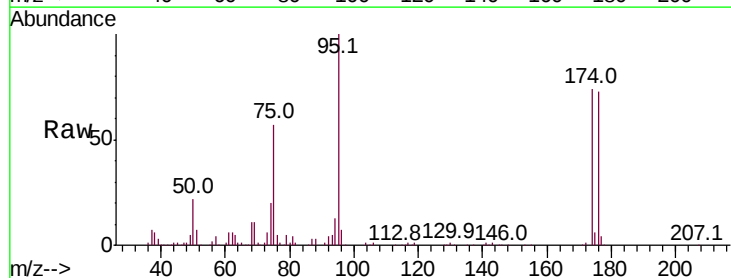
Instrument :
MSVOA_N
ClientSampleId :
PB132063ZHE#12

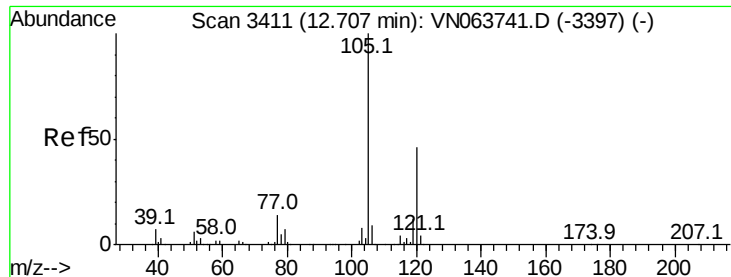
Tot Ion:	43	Resp:	2608
Ion	Ratio	Lower	Upper
43	100		
70	0.0	29.8	44.8#
55	0.0	17.9	26.9#
61	0.0	17.0	25.4#



#76
1,2,3-Trichloropropane
Concen: 31.567 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN063880.D
Acq: 5 Oct 2020 18:56

Tgt Ion:	75	Resp:	116589
Ion	Ratio	Lower	Upper
75	100		
77	1.3	0.0	0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.335 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN063880.D

Acq: 5 Oct 2020 18:56

Instrument :

MSVOA_N

ClientSampleId :

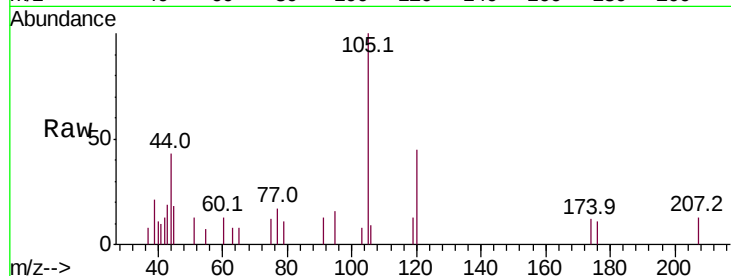
PB132063ZHE#12

Tot Ion:105 Resp: 3439

Ion Ratio Lower Upper

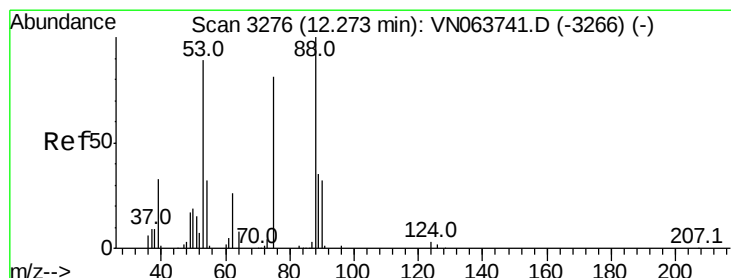
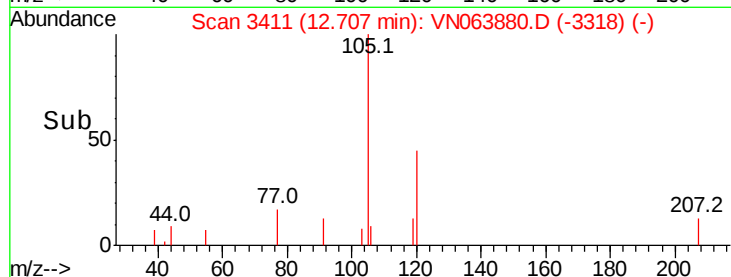
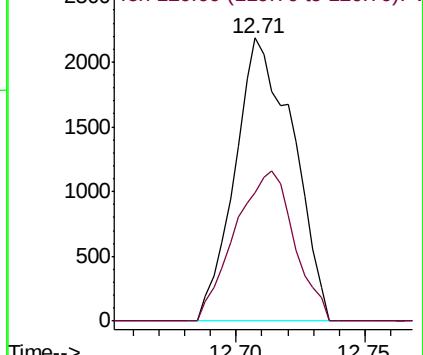
105 100

120 53.9 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 90.919 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063880.D

Acq: 5 Oct 2020 18:56

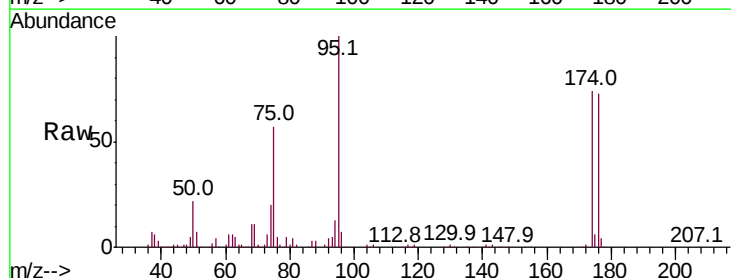
Tgt Ion: 75 Resp: 116589

Ion Ratio Lower Upper

75 100

53 0.1 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

