

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081920\
 Data File : VN063019.D
 Acq On : 19 Aug 2020 17:57
 Operator : JC/MD
 Sample : L3496-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 AU-06-081720

Quant Time: Aug 20 01:26:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	160541	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	270604	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	298286	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	106724	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	104706	55.03	ug/l	0.00
Spiked Amount			Recovery	=	110.06%	
35) Dibromofluoromethane	7.55	113	91510	51.90	ug/l	0.00
Spiked Amount			Recovery	=	103.80%	
50) Toluene-d8	10.06	98	362201	53.48	ug/l	0.00
Spiked Amount			Recovery	=	106.96%	
62) 4-Bromofluorobenzene	12.38	95	122905	51.43	ug/l	0.00
Spiked Amount			Recovery	=	102.86%	

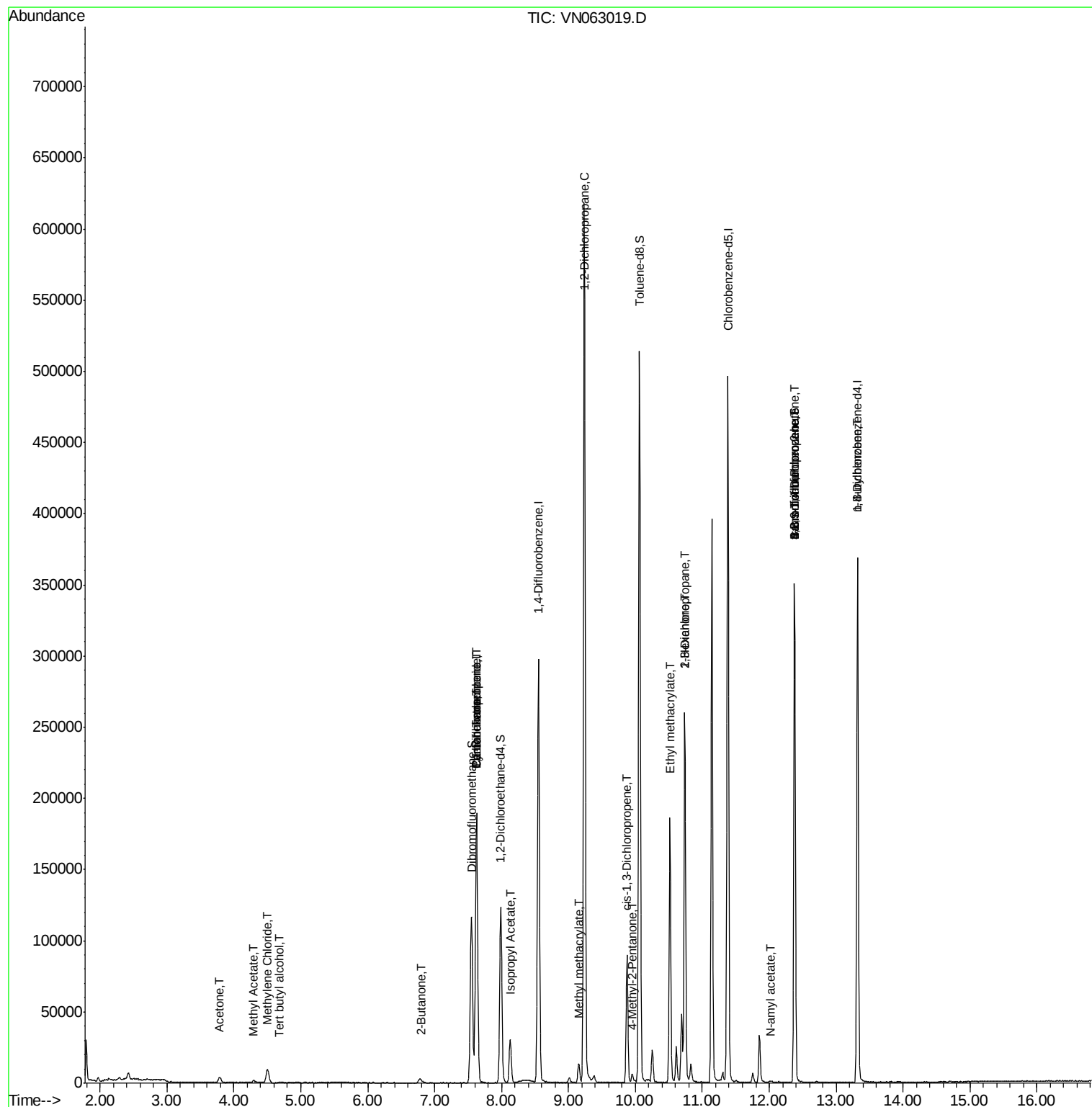
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.68	59	286	1.061	ug/l #	74
16) Acetone	3.79	43	7882	9.511	ug/l	96
18) Methyl Acetate	4.29	43	2779	1.470	ug/l #	90
20) Methylene Chloride	4.50	84	7251	3.069	ug/l	99
25) 2-Butanone	6.80	43	1090	1.079	ug/l #	48
31) Cyclohexane	7.62	56	2957	1.054	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	12121	5.083	ug/l #	48
38) Carbon Tetrachloride	7.63	117	14699	6.105	ug/l #	17
43) Isopropyl Acetate	8.13	43	35699	9.643	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	643	0.294	ug/l #	43
48) Methyl methacrylate	9.14	41	1848	1.055	ug/l #	11
51) 4-Methyl-2-Pentanone	9.96	43	3491	1.492	ug/l	97
54) cis-1,3-Dichloropropene	9.88	75	16001	5.099	ug/l #	65
56) Ethyl methacrylate	10.52	69	1215	2.130	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2580	0.796	ug/l #	42
59) 2-Hexanone	10.74	43	36302	22.242	ug/l #	52
71) Bromoform	12.37	173	1026	0.553	ug/l #	1
74) N-amyl acetate	12.01	43	779	0.298	ug/l #	43
76) 1,2,3-Trichloropropane	12.38	75	59481	28.673	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	59481	78.748	ug/l #	15
89) n-Butylbenzene	13.32	91	95	2.786	ug/l #	34

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN063019.D

Acq: 19 Aug 2020 17:57

Instrument :

MSVOA_N

ClientSampleId :

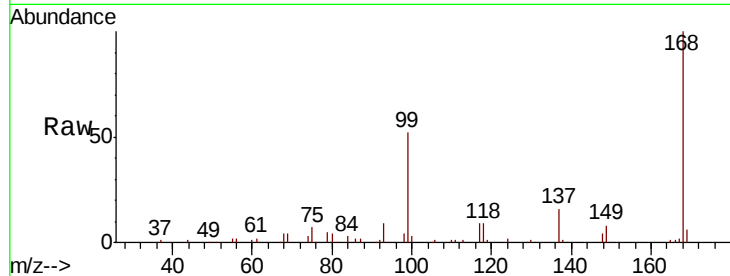
AU-06-081720

Tot Ion:168 Resp: 160541

Ion Ratio Lower Upper

168 100

99 52.0 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

60000

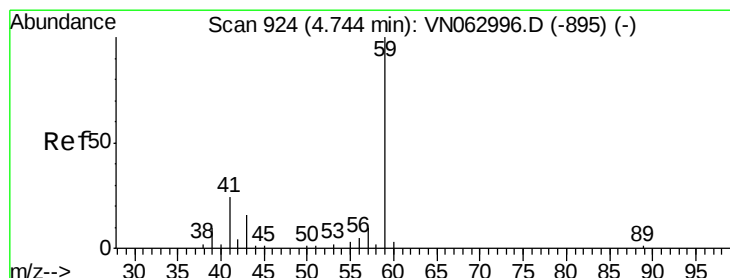
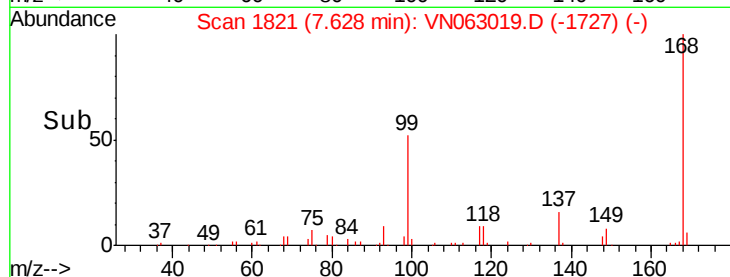
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#11

Tert butyl alcohol

Concen: 1.061 ug/l

RT: 4.68 min Scan# 905

Delta R.T. -0.06 min

Lab File: VN063019.D

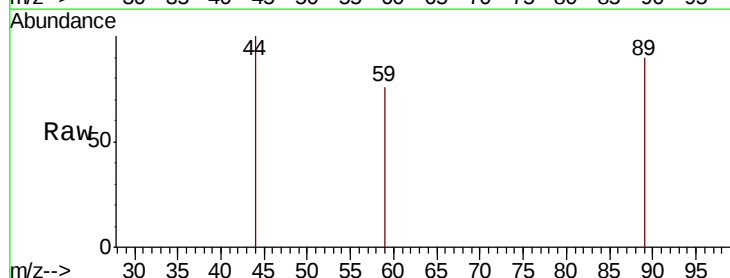
Acq: 19 Aug 2020 17:57

Tgt Ion: 59 Resp: 286

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.68

300

250

200

150

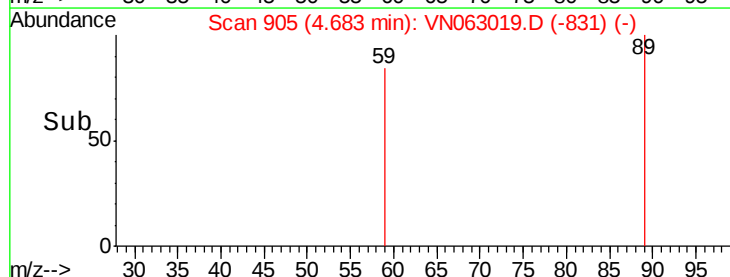
100

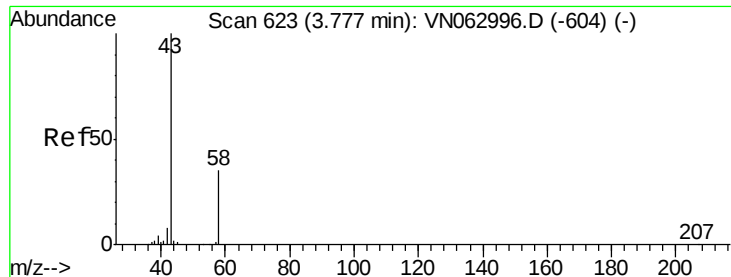
50

0

4.66 4.67 4.68 4.69 4.70

Time-->





#16

Acetone

Concen: 9.511 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.02 min

Lab File: VN063019.D

Acq: 19 Aug 2020 17:57

Instrument :

MSVOA_N

ClientSampled :

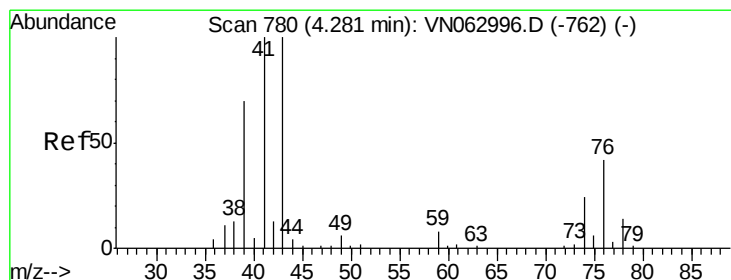
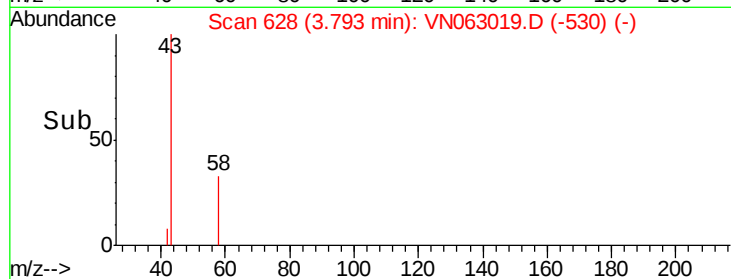
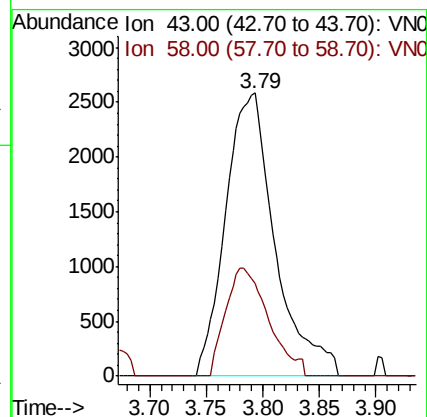
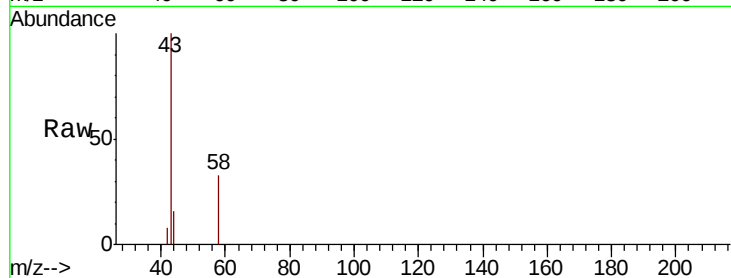
AU-06-081720

Tot Ion: 43 Resp: 7882

Ion Ratio Lower Upper

43 100

58 32.5 27.8 41.6



#18

Methyl Acetate

Concen: 1.470 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN063019.D

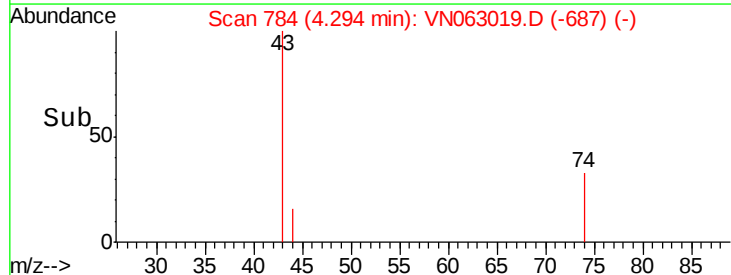
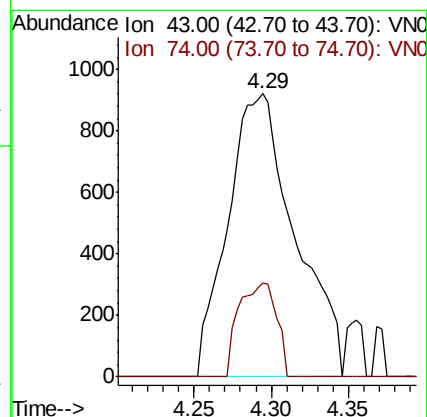
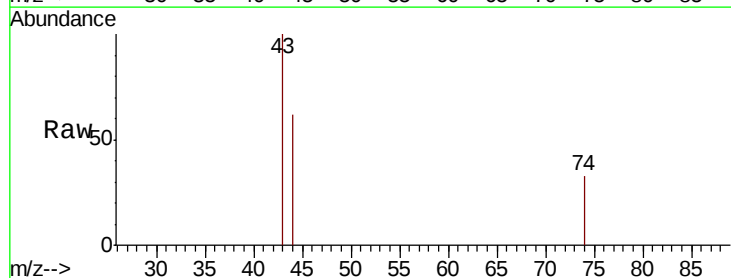
Acq: 19 Aug 2020 17:57

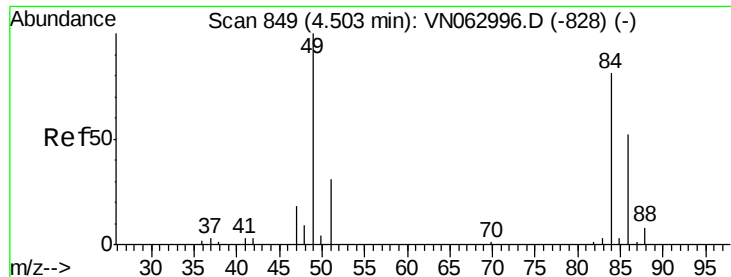
Tgt Ion: 43 Resp: 2779

Ion Ratio Lower Upper

43 100

74 18.5 18.6 28.0#

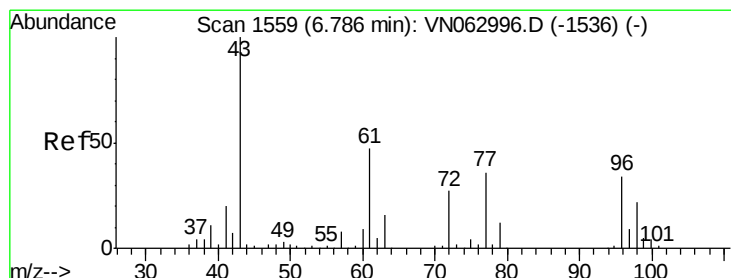
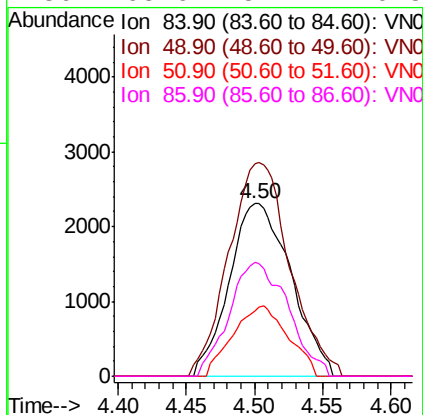
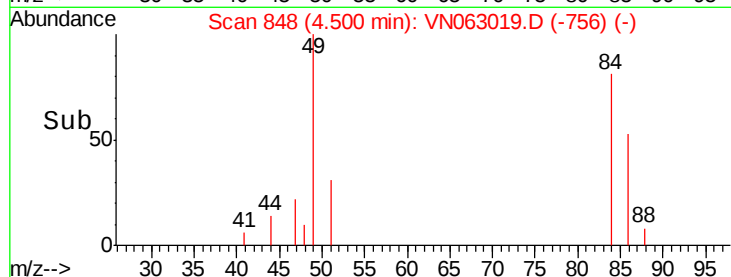
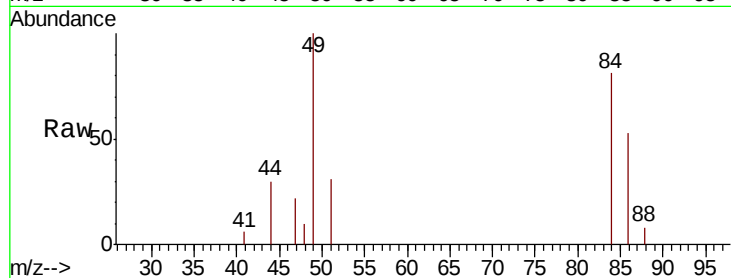




#20
Methvlene Chloride
Concen: 3.069 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN063019.D
Acq: 19 Aug 2020 17:57

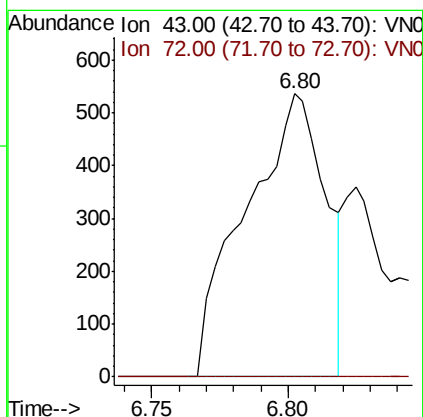
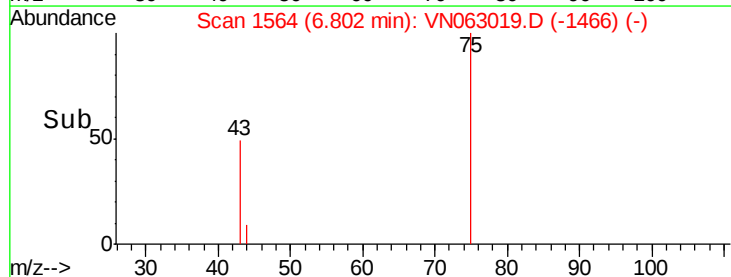
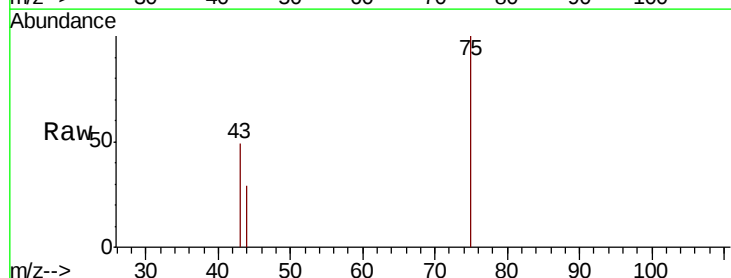
Instrument :
MSVOA_N
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AU-06-081720

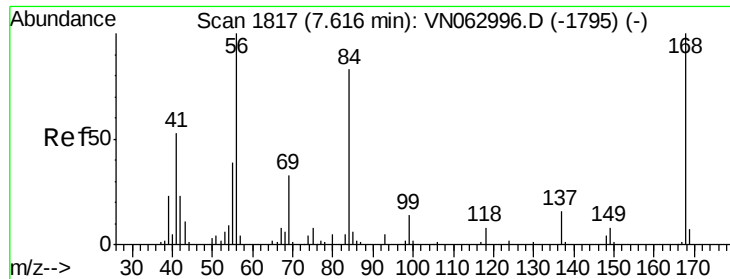
Tot Ion: 84 Resp: 7251
Ion Ratio Lower Upper
84 100
49 122.9 98.7 148.1
51 37.7 30.8 46.2
86 65.6 51.2 76.8



#25
2-Butanone
Concen: 1.079 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.02 min
Lab File: VN063019.D
Acq: 19 Aug 2020 17:57

Tgt Ion: 43 Resp: 1090
Ion Ratio Lower Upper
43 100
72 0.0 21.8 32.6#

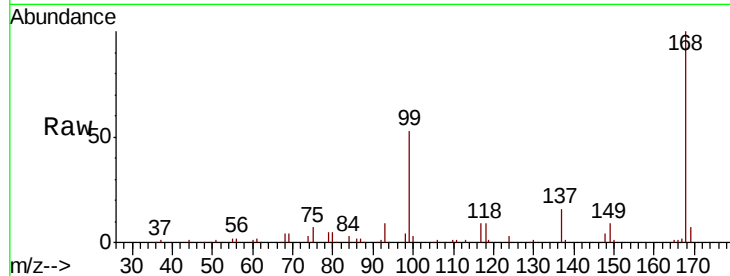




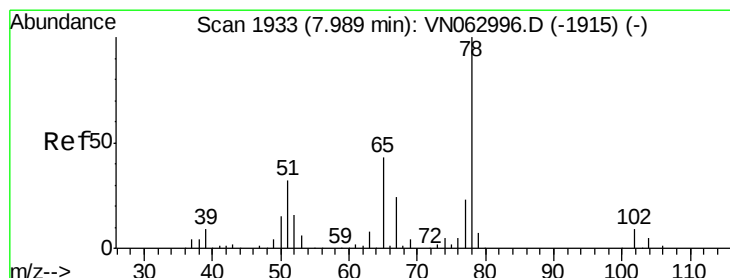
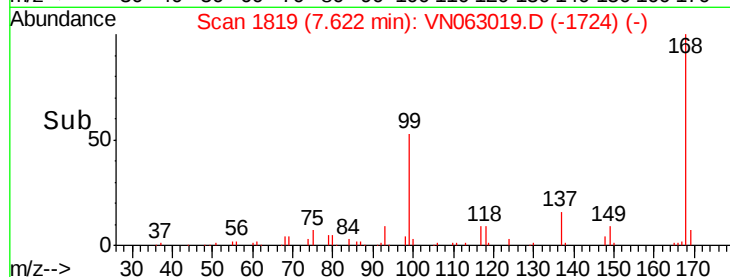
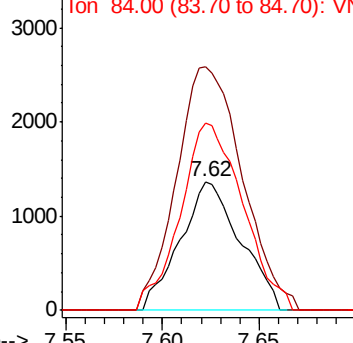
#31
Cyclohexane
Concen: 1.054 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN063019.D
Acq: 19 Aug 2020 17:57

Instrument :
MSVOA_N
ClientSampleId :
AU-06-081720

Tot Ion: 56 Resp: 2957
Ion Ratio Lower Upper
56 100
69 189.2 26.6 40.0#
84 145.9 66.4 99.6#

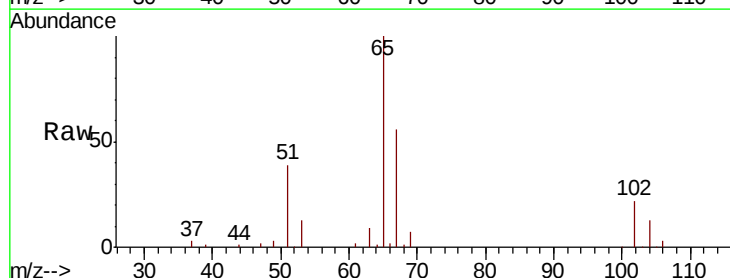


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

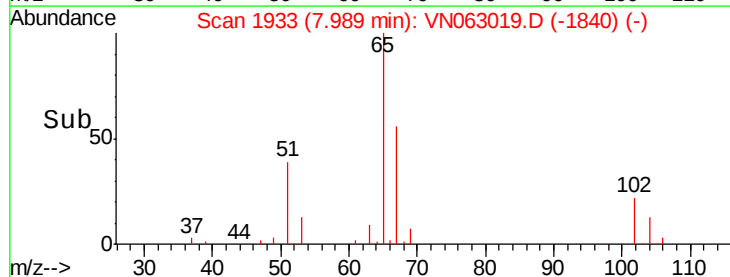
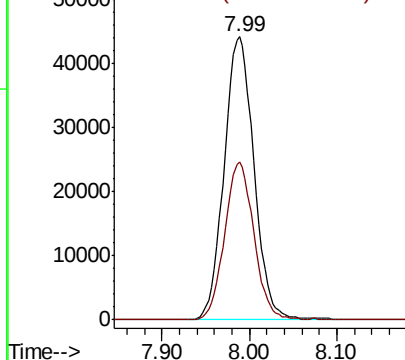


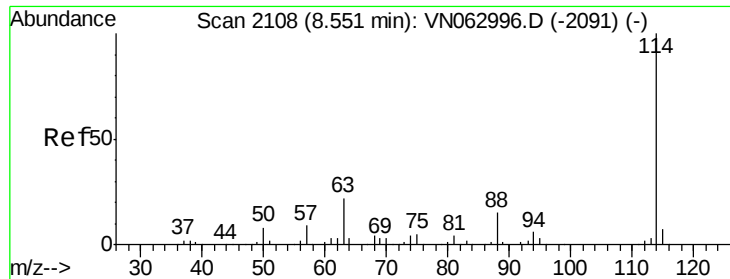
#33
1,2-Dichloroethane-d4
Concen: 55.030 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN063019.D
Acq: 19 Aug 2020 17:57

Tgt Ion: 65 Resp: 104706
Ion Ratio Lower Upper
65 100
67 54.6 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

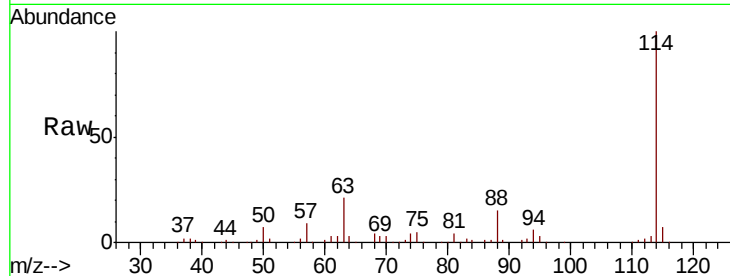




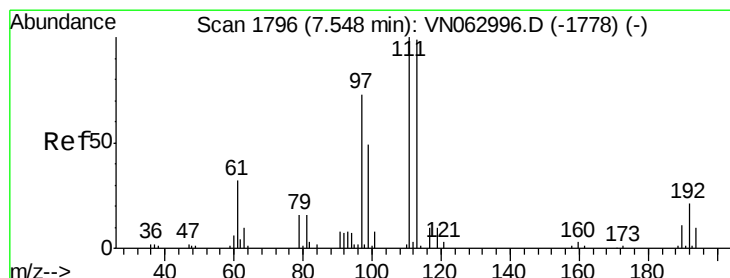
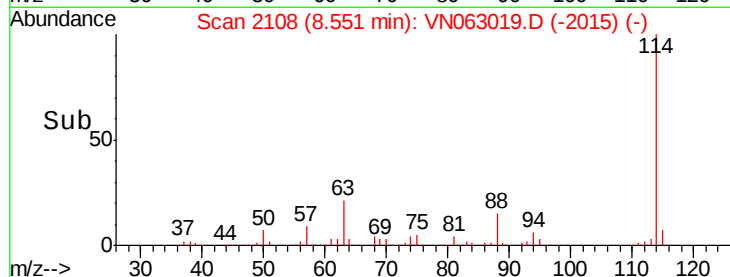
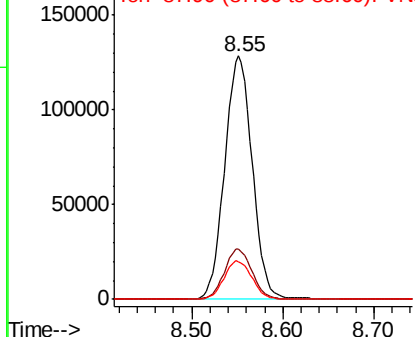
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN063019.D
 Acq: 19 Aug 2020 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 AU-06-081720

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	43.2
88	15.5	0.0	30.6

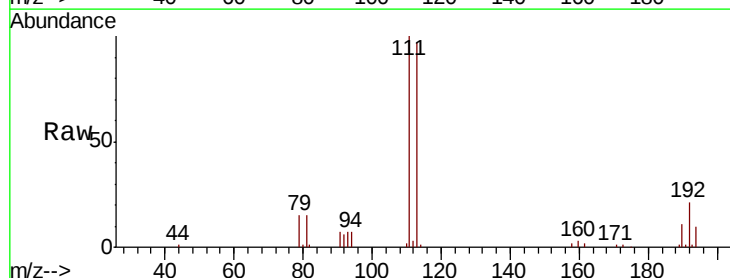


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

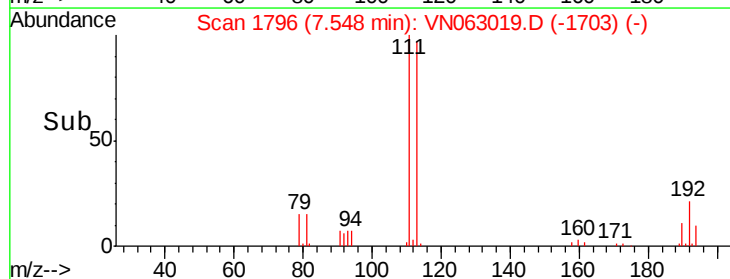
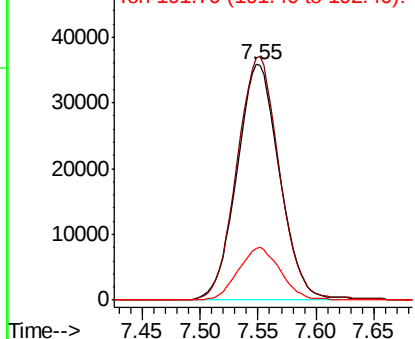


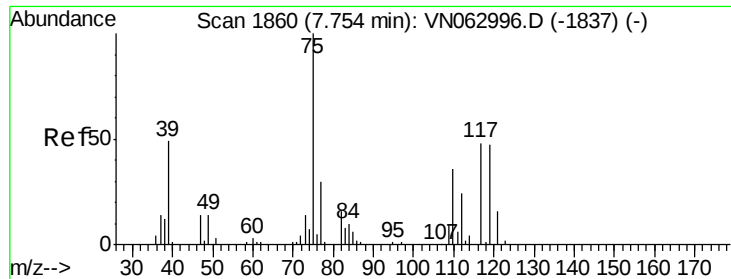
#35
 Dibromofluoromethane
 Concen: 51.899 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN063019.D
 Acq: 19 Aug 2020 17:57

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.7	122.5
192	22.1	17.5	26.3



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

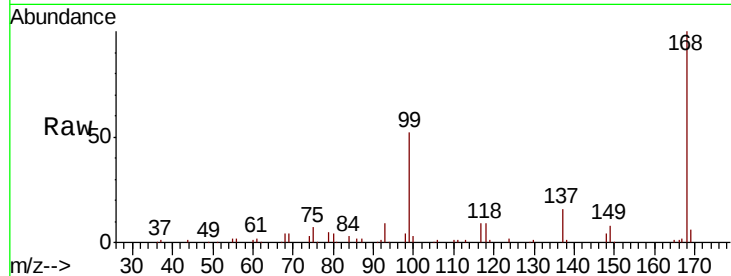




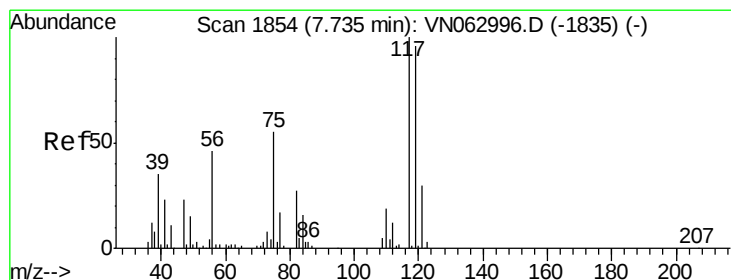
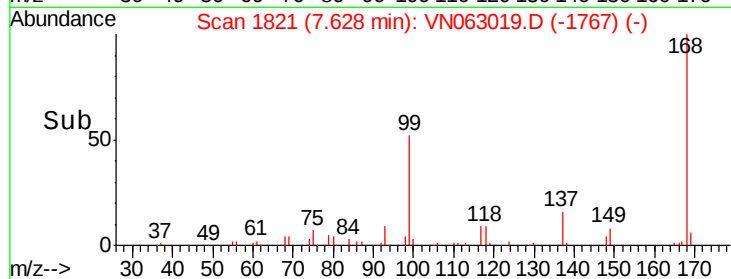
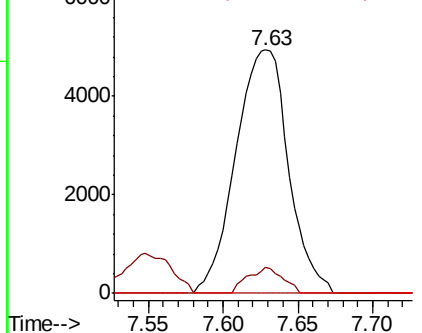
#36
 1,1-Dichloropropene
 Concen: 5.083 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.13 min
 Lab File: VN063019.D
 Acq: 19 Aug 2020 17:57

Instrument :
 MSVOA_N
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 AU-06-081720

Tot Ion	Ratio	Lower	Upper
75	100		
110	7.0	17.5	52.6#
77	0.0	24.2	36.4#

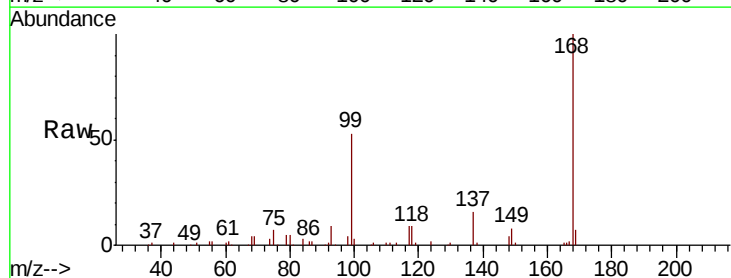


Abundance Ion 74.90 (74.60 to 75.60): VN062996.D (-1837) (-)
 Ion 109.90 (109.60 to 110.60): VN062996.D (-1837) (-)
 Ion 76.90 (76.60 to 77.60): VN062996.D (-1837) (-)

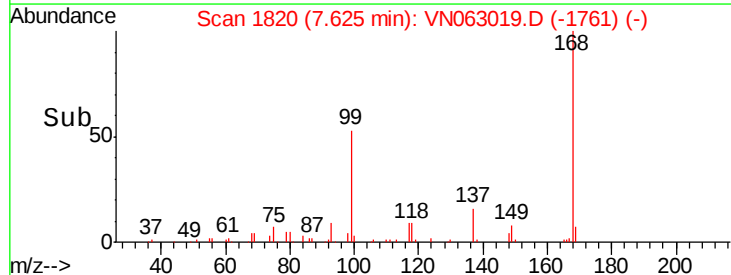
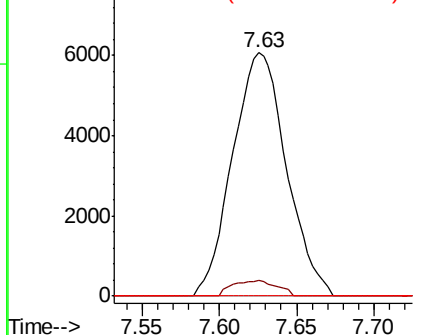


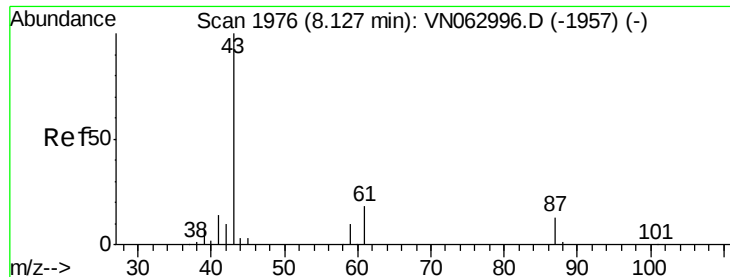
#38
 Carbon Tetrachloride
 Concen: 6.105 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN063019.D
 Acq: 19 Aug 2020 17:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.2	76.2	114.4#
121	0.0	24.2	36.2#



Abundance Ion 116.80 (116.50 to 117.50): VN062996.D (-1835) (-)
 Ion 118.80 (118.50 to 119.50): VN062996.D (-1835) (-)
 Ion 120.80 (120.50 to 121.50): VN062996.D (-1835) (-)





#43

Isopropyl Acetate

Concen: 9.643 ug/l

RT: 8.13 min Scan# 1977

Delta R.T. 0.00 min

Lab File: VN063019.D

Acq: 19 Aug 2020 17:57

Instrument :

MSVOA_N

ClientSampleId :

AU-06-081720

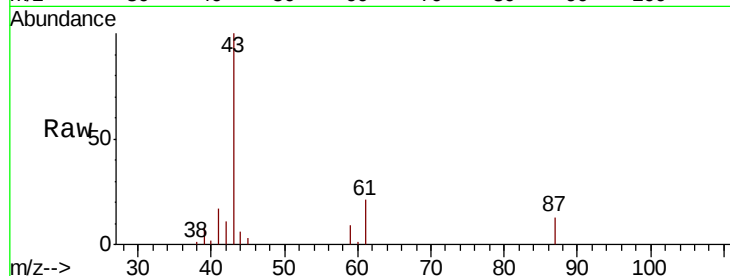
Tot Ion: 43 Resp: 35699

Ion Ratio Lower Upper

43 100

61 21.0 22.6 33.8#

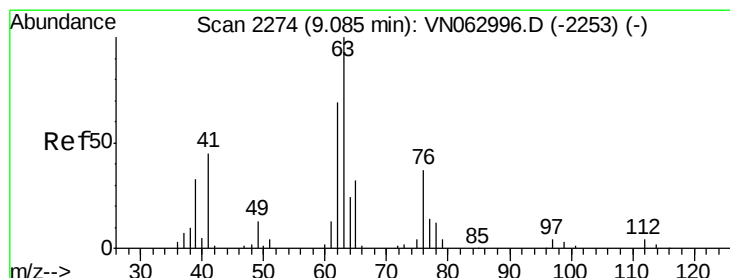
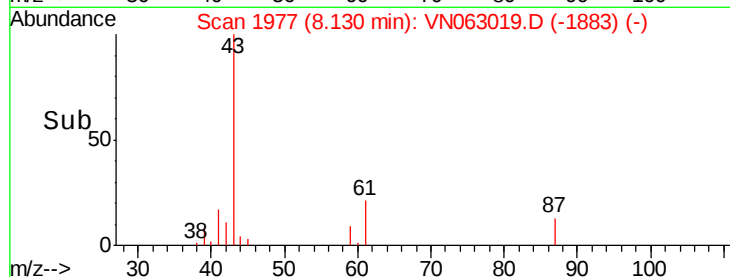
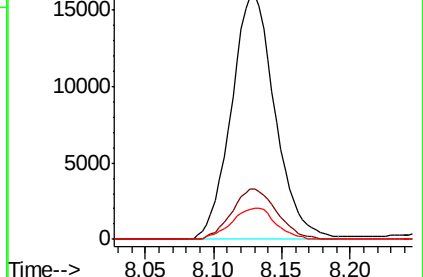
87 12.8 10.5 15.7



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-1957) (-)

Ion 61.00 (60.70 to 61.70): VN062996.D (-1957) (-)

Ion 87.00 (86.70 to 87.70): VN062996.D (-1957) (-)



#45

1,2-Dichloropropane

Concen: 0.294 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN063019.D

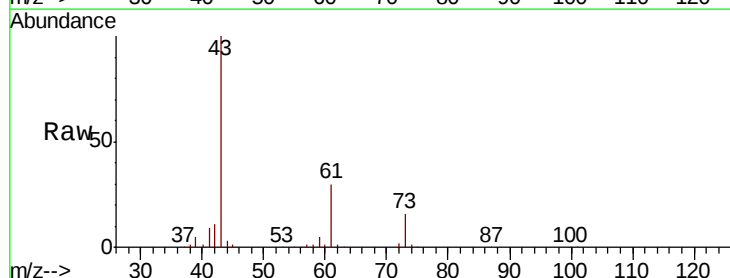
Acq: 19 Aug 2020 17:57

Tgt Ion: 63 Resp: 643

Ion Ratio Lower Upper

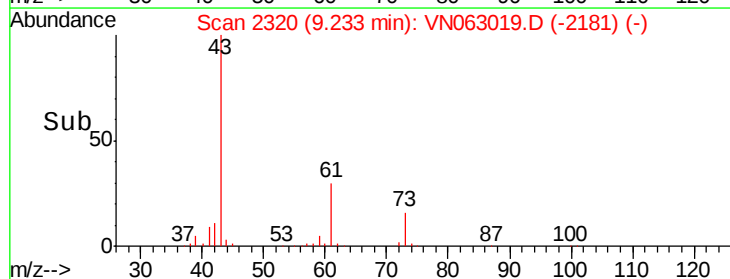
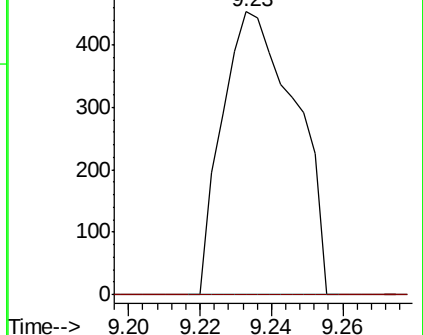
63 100

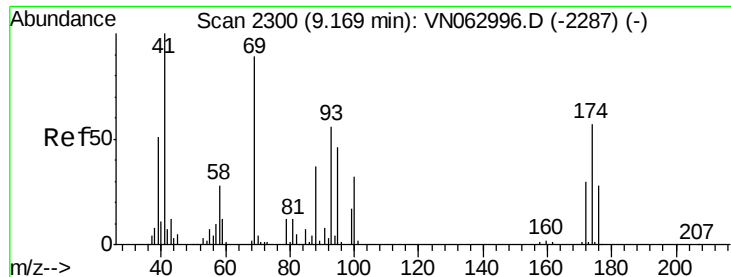
65 0.0 25.6 38.4#



Abundance Ion 62.90 (62.60 to 63.60): VN062996.D (-2253) (-)

Ion 64.90 (64.60 to 65.60): VN062996.D (-2253) (-)

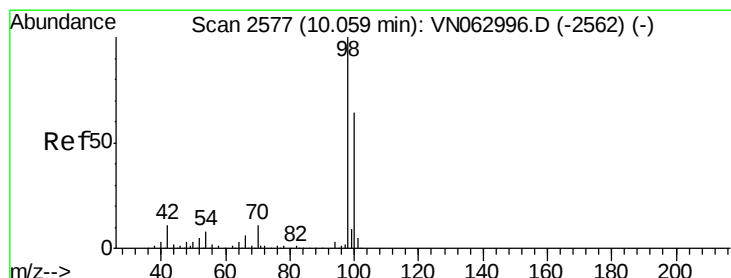
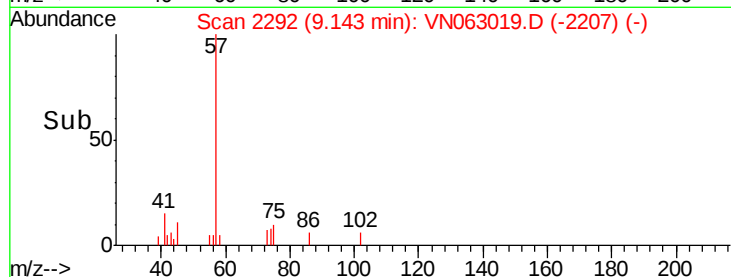
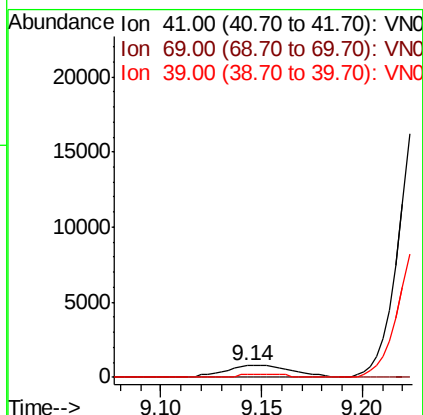
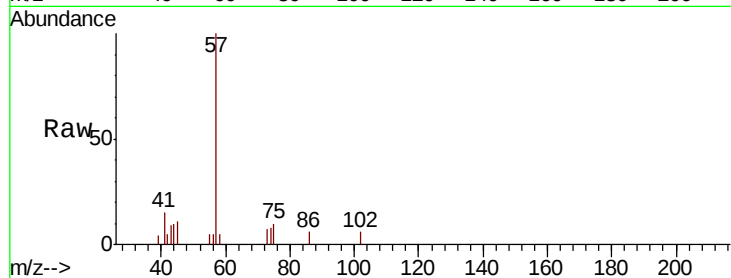




#48
Methvl methacrylate
Concen: 1.055 ug/l
RT: 9.14 min Scan# 2292
Delta R.T. -0.03 min
Lab File: VN063019.D
Acq: 19 Aug 2020 17:57

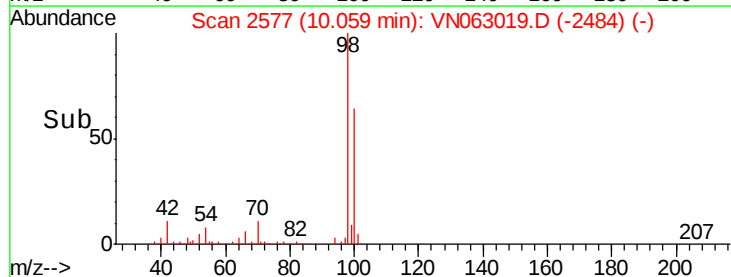
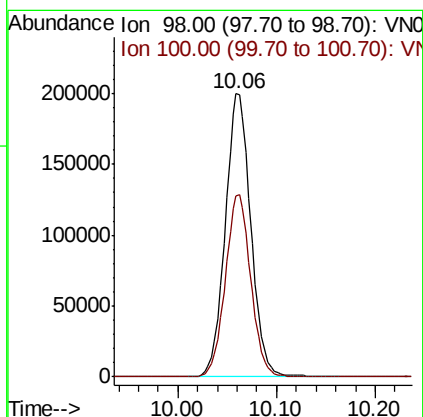
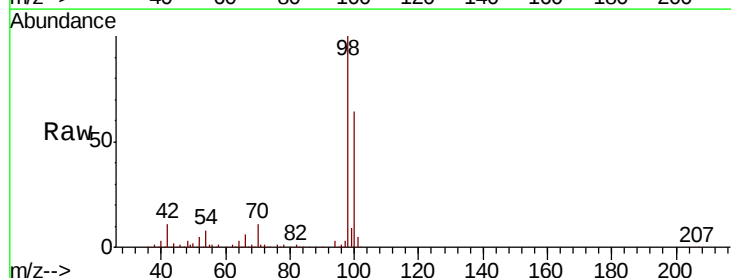
Instrument :
MSVOA_N
ClientSampleId :
AU-06-081720

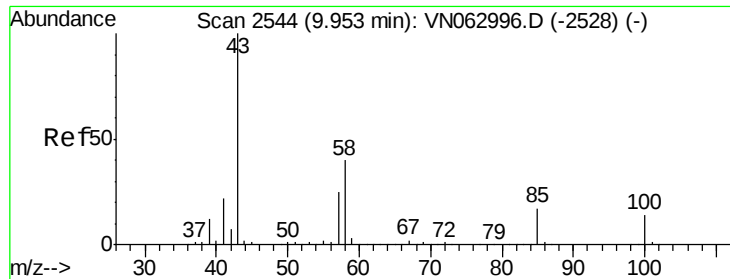
Tot Ion: 41 Resp: 1848
Ion Ratio Lower Upper
41 100
69 0.0 74.2 111.4#
39 0.0 42.5 63.7#



#50
Toluene-d8
Concen: 53.479 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN063019.D
Acq: 19 Aug 2020 17:57

Tgt Ion: 98 Resp: 362201
Ion Ratio Lower Upper
98 100
100 64.0 51.2 76.8

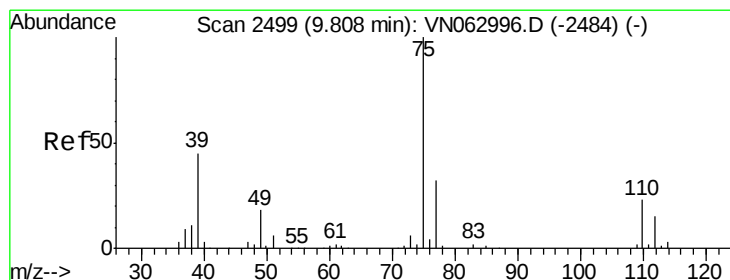
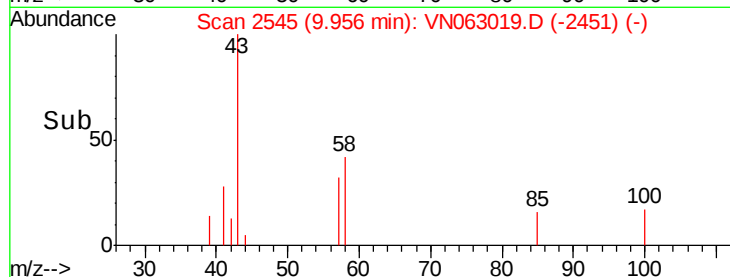
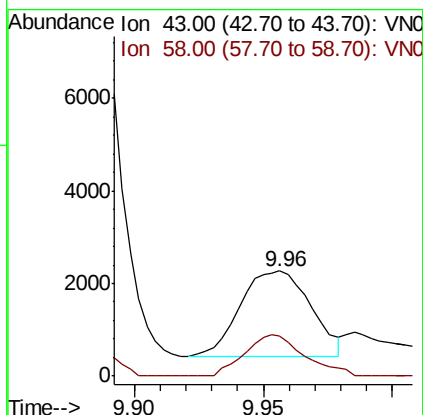
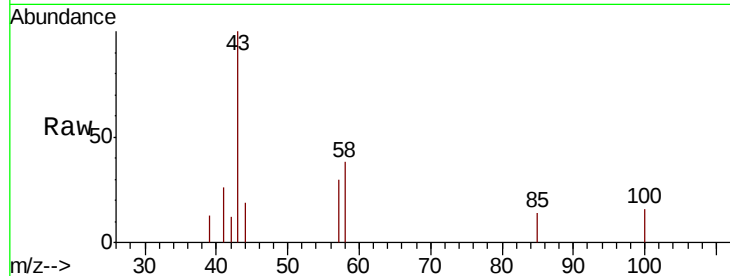




#51
 4-Methyl-2-Pentanone
 Concen: 1.492 ug/l
 RT: 9.96 min Scan# 2545
 Delta R.T. 0.00 min
 Lab File: VN063019.D
 Acq: 19 Aug 2020 17:57

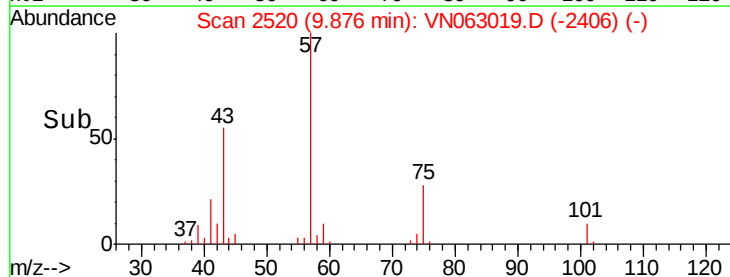
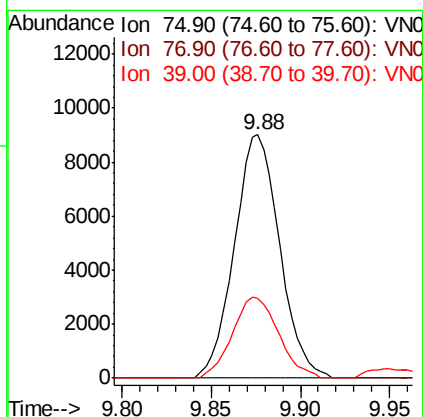
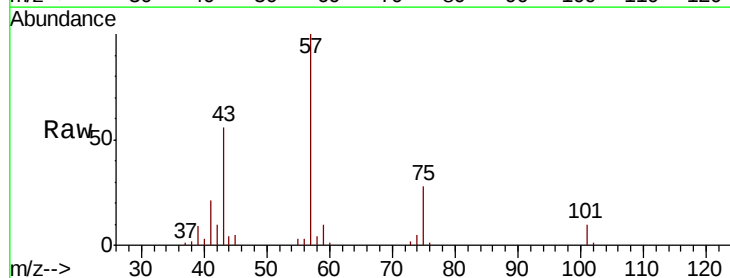
Instrument :
 MSVOA_N
 ClientSampleId :
 AU-06-081720

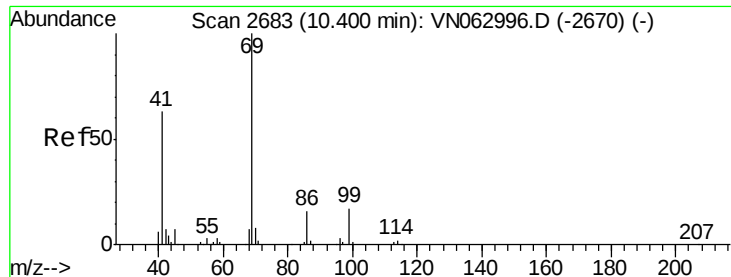
Tot Ion: 43 Resp: 3491
 Ion Ratio Lower Upper
 43 100
 58 41.8 32.2 48.2



#54
 cis-1,3-Dichloropropene
 Concen: 5.099 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN063019.D
 Acq: 19 Aug 2020 17:57

Tgt Ion: 75 Resp: 16001
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 32.5 35.7 53.5#





#56

Ethyl methacrylate

Concen: 2.130 ug/l

RT: 10.52 min Scan# 2720

Delta R.T. 0.12 min

Lab File: VN063019.D

Acq: 19 Aug 2020 17:57

Instrument :

MSVOA_N

ClientSampled :

AU-06-081720

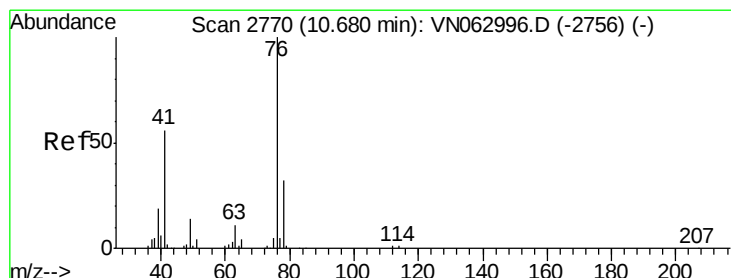
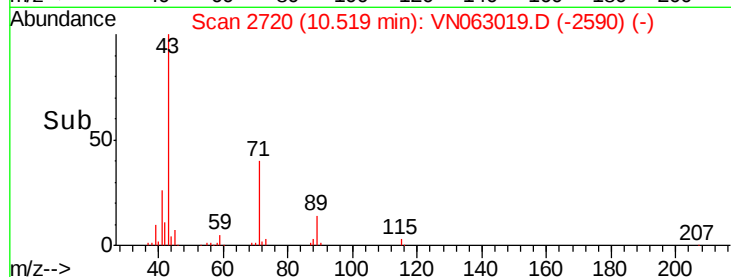
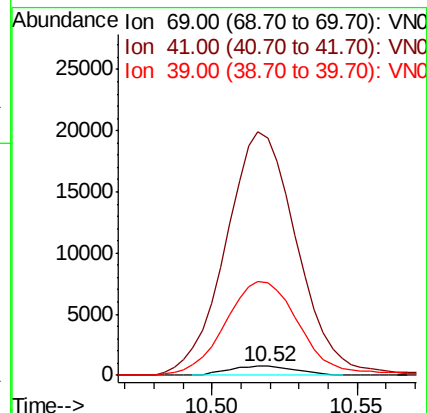
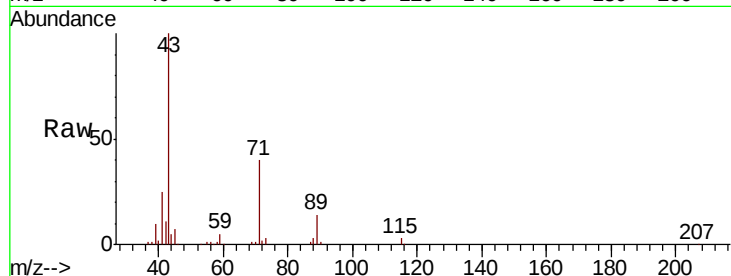
Tot Ion: 69 Resp: 1215

Ion Ratio Lower Upper

69 100

41 2813.7 50.2 75.2#

39 1128.3 24.2 36.4#



#57

1,3-Dichloropropane

Concen: 0.796 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN063019.D

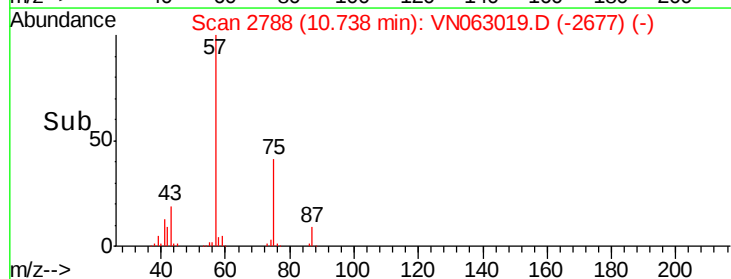
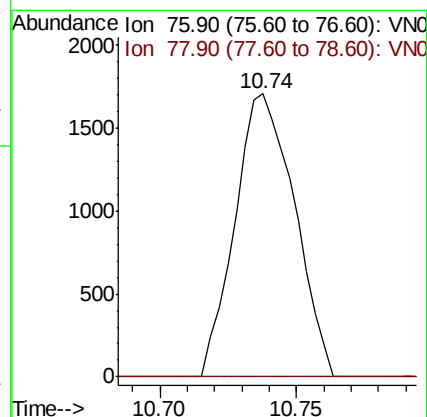
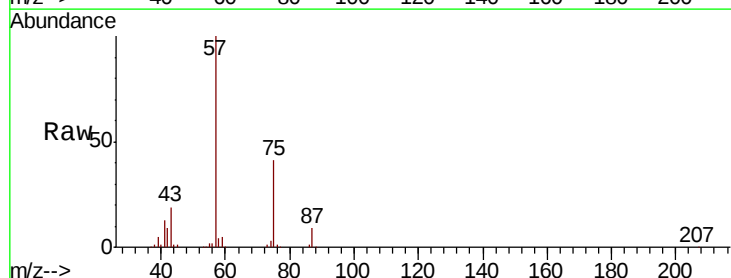
Acq: 19 Aug 2020 17:57

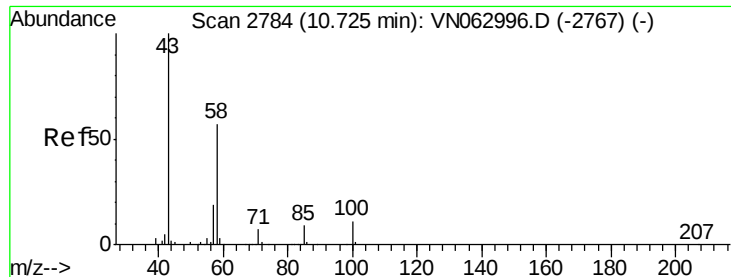
Tgt Ion: 76 Resp: 2580

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#

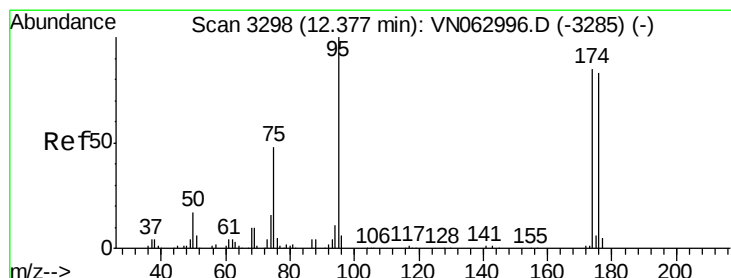
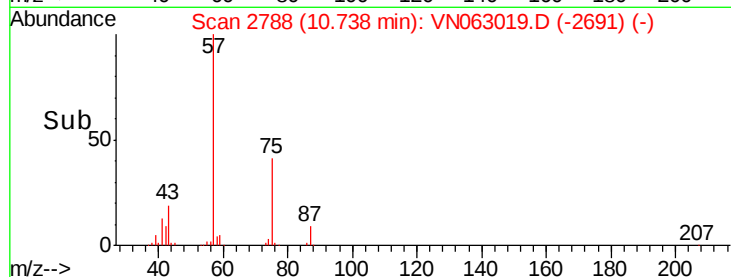
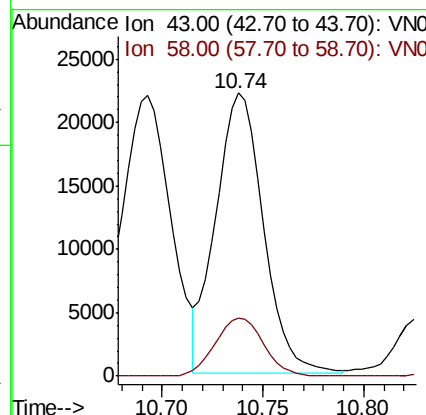
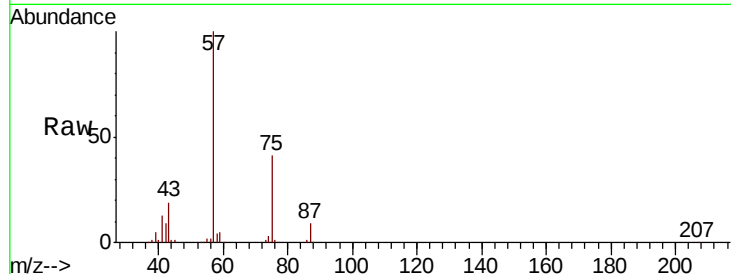




#59
2-Hexanone
Concen: 22.242 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN063019.D
Acq: 19 Aug 2020 17:57

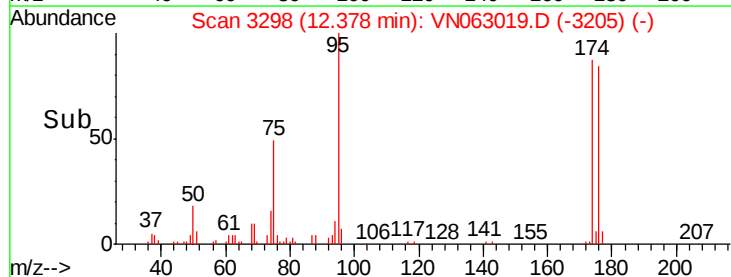
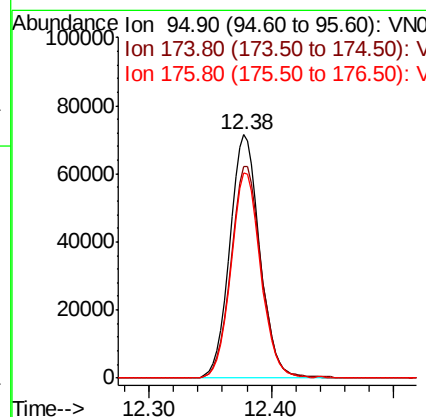
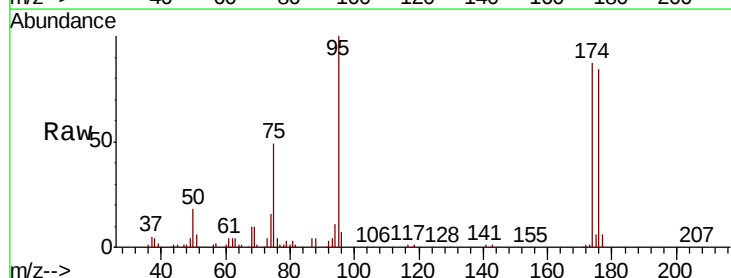
Instrument :
MSVOA_N
ClientSampleId :
AU-06-081720

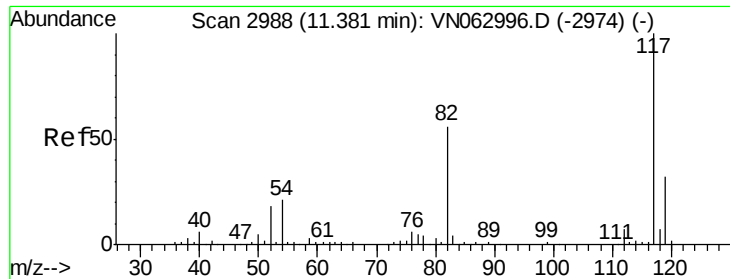
Tot Ion: 43 Resp: 36302
Ion Ratio Lower Upper
43 100
58 21.1 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: 51.425 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN063019.D
Acq: 19 Aug 2020 17:57

Tgt Ion: 95 Resp: 122905
Ion Ratio Lower Upper
95 100
174 87.8 0.0 170.8
176 83.4 0.0 164.8

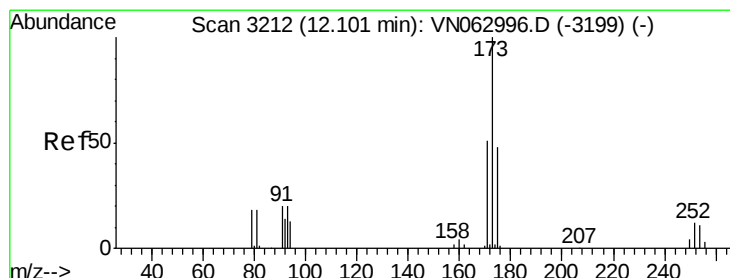
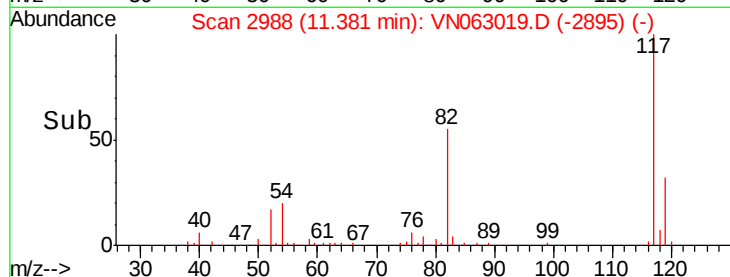
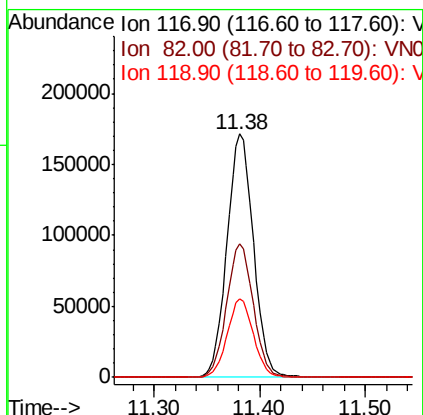
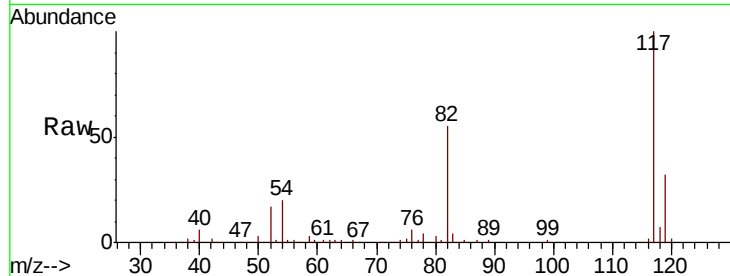




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN063019.D
Acq: 19 Aug 2020 17:57

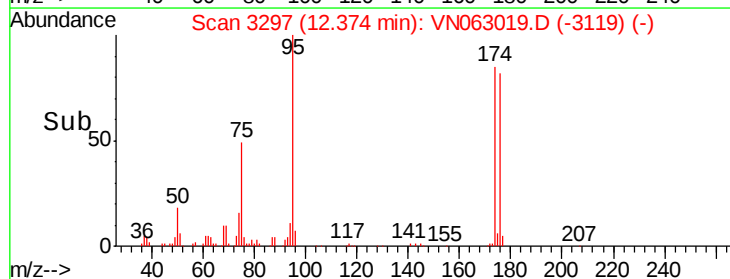
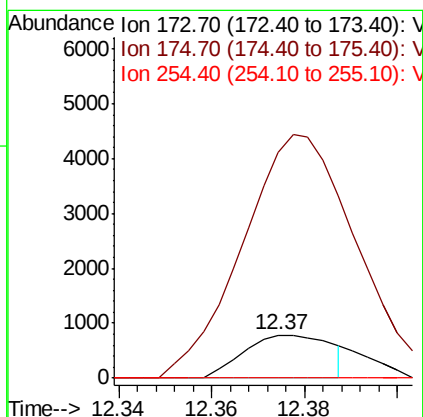
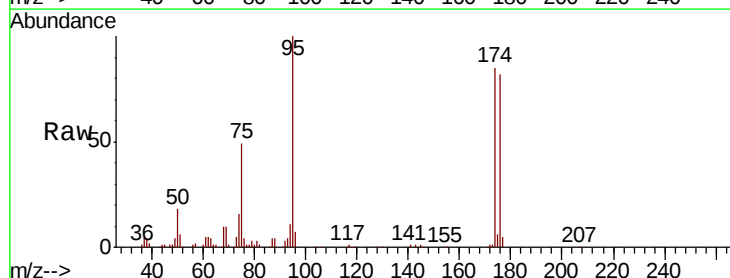
Instrument :
MSVOA_N
ClientSampleId :
AU-06-081720

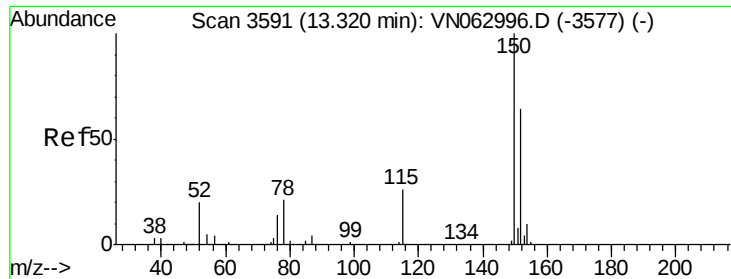
Tot Ion:117 Resp: 298286
Ion Ratio Lower Upper
117 100
82 54.6 44.5 66.7
119 32.4 25.5 38.3



#71
Bromoform
Concen: 0.553 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN063019.D
Acq: 19 Aug 2020 17:57

Tgt Ion:173 Resp: 1026
Ion Ratio Lower Upper
173 100
175 591.0 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN063019.D

Acq: 19 Aug 2020 17:57

Instrument :

MSVOA_N

ClientSampleId :

AU-06-081720

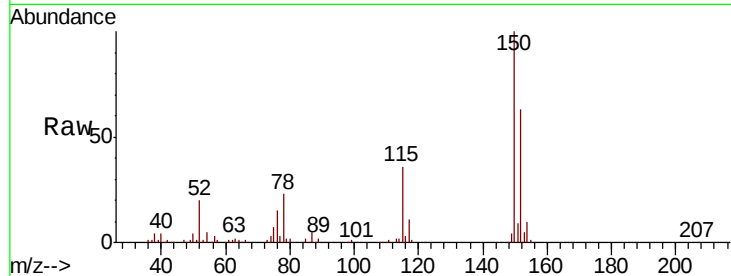
Tot Ion:152 Resp: 106724

Ion Ratio Lower Upper

152 100

115 56.9 28.7 86.3

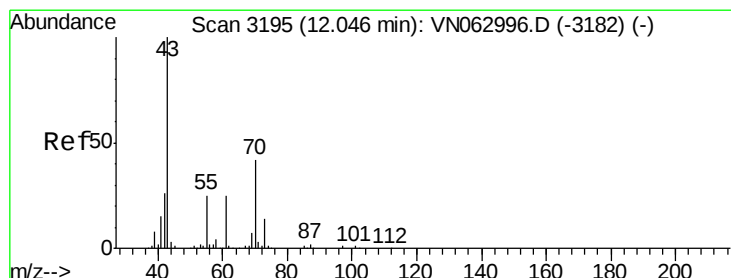
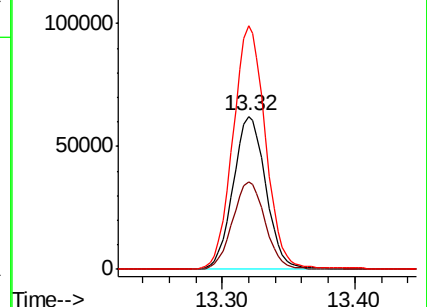
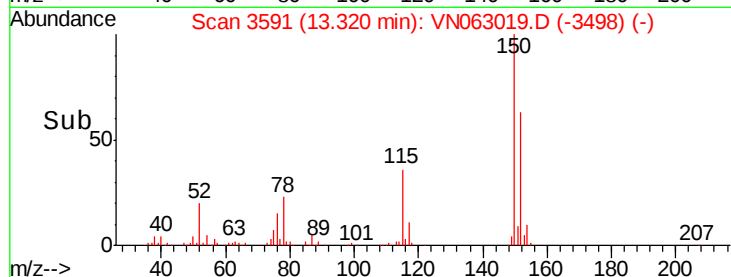
150 158.3 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.298 ug/l

RT: 12.01 min Scan# 3185

Delta R.T. -0.03 min

Lab File: VN063019.D

Acq: 19 Aug 2020 17:57

Tgt Ion: 43 Resp: 779

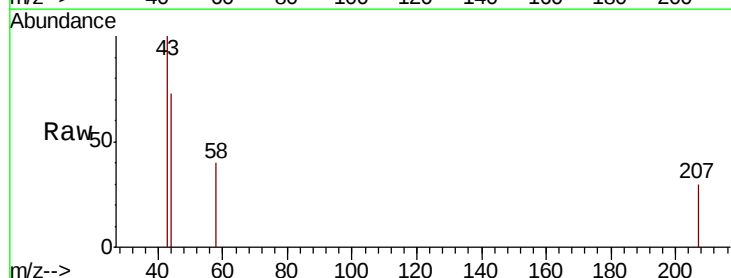
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 20.2 30.2#

61 0.0 19.9 29.9#

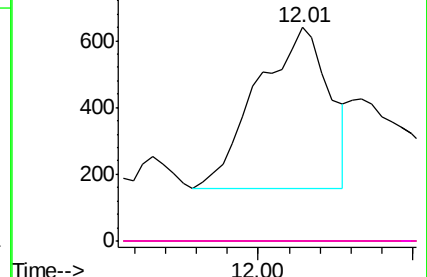
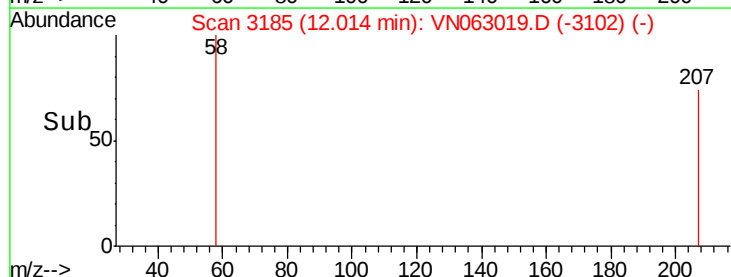


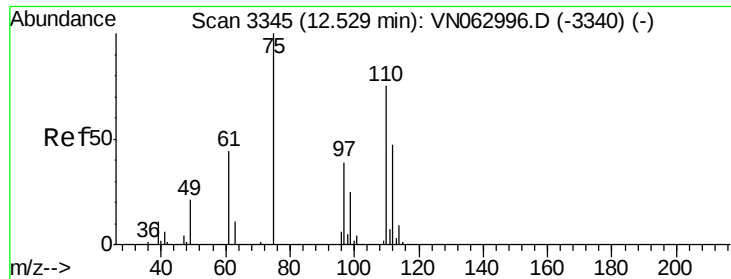
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 28.673 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN063019.D

Acq: 19 Aug 2020 17:57

Instrument :

MSVOA_N

ClientSampleId :

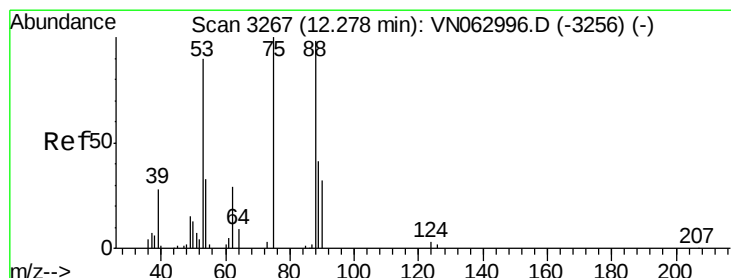
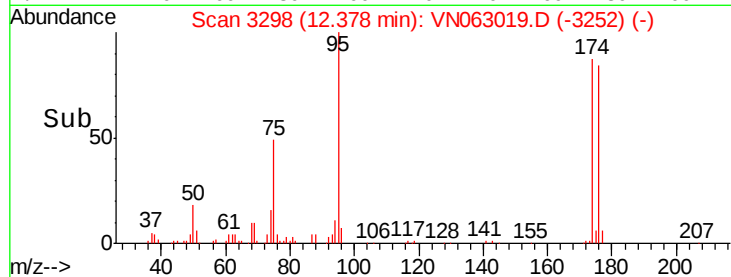
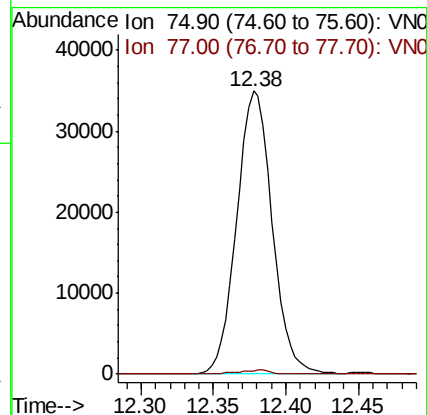
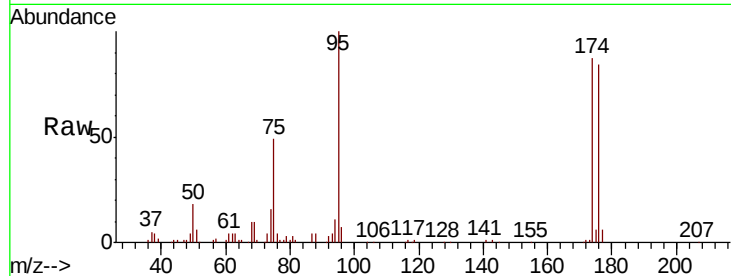
AU-06-081720

Tot Ion: 75 Resp: 59481

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 78.748 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN063019.D

Acq: 19 Aug 2020 17:57

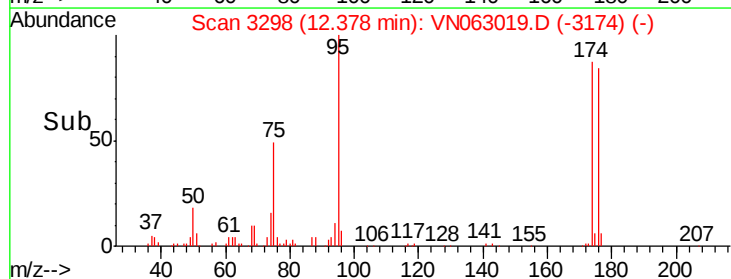
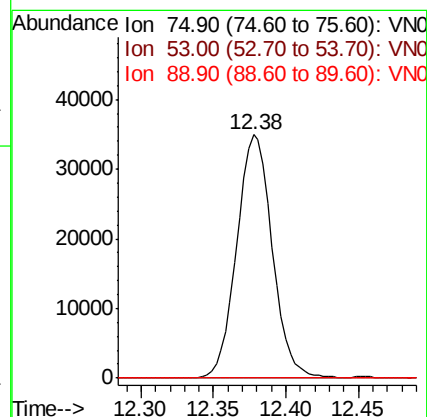
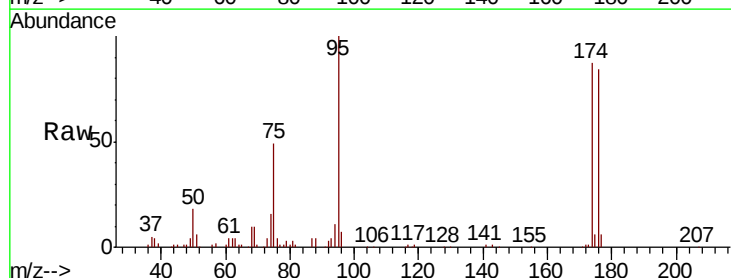
Tgt Ion: 75 Resp: 59481

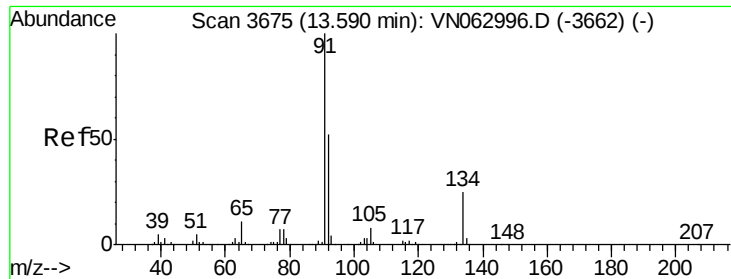
Ion Ratio Lower Upper

75 100

53 0.0 69.2 103.8#

89 0.0 34.2 51.4#





#89

n-Butylbenzene

Concen: 2.786 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. -0.27 min

Lab File: VN063019.D

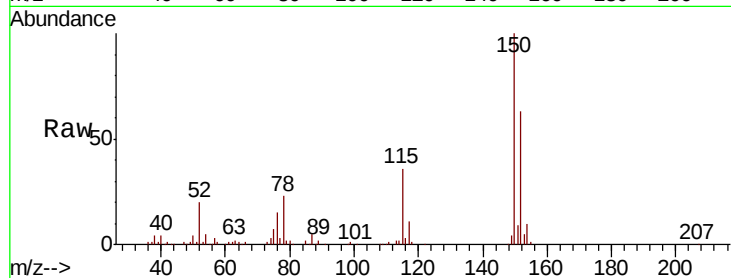
Acq: 19 Aug 2020 17:57

Instrument :

MSVOA_N

ClientSampleId :

AU-06-081720



Tot Ion:	91	Resp:	95
Ion	Ratio	Lower	Upper
91	100		
92	0.0	25.9	77.6#
134	0.0	12.4	37.0#

