

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080720\
 Data File : VN062791.D
 Acq On : 7 Aug 2020 20:06
 Operator : JC/MD
 Sample : L3594-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

Quant Time: Aug 08 02:15:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080520W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:26:42 2020
 Response via : Initial Calibration

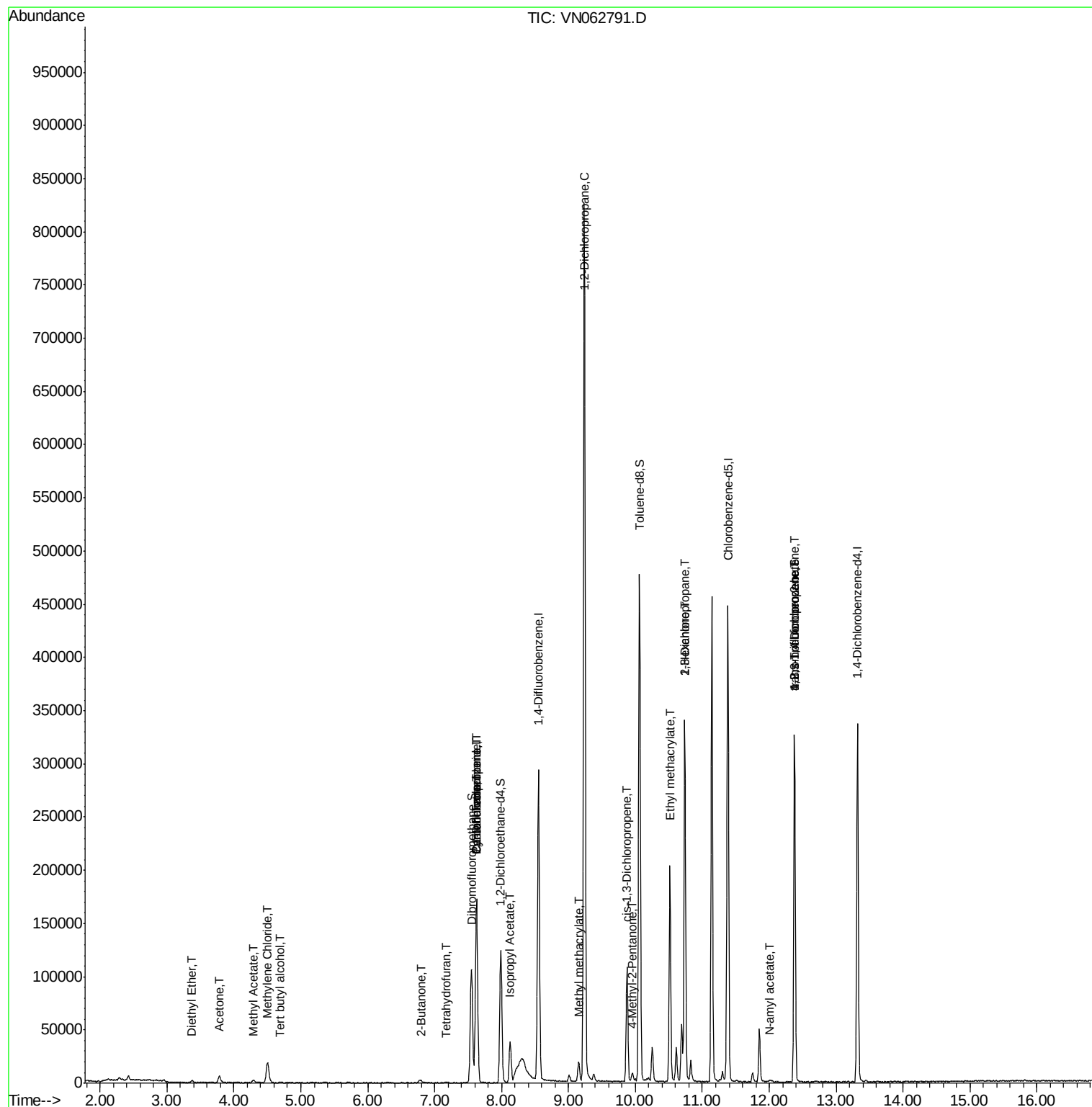
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	130887	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	246708	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	250488	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	88988	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	114003	52.67	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.34%	
35) Dibromofluoromethane	7.55	113	82385	48.82	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.64%	
50) Toluene-d8	10.06	98	321094	48.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.46%	
62) 4-Bromofluorobenzene	12.38	95	113299	45.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.00%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.37	74	894	1.056	ug/l	57
11) Tert butyl alcohol	4.70	59	318	0.896	ug/l #	72
16) Acetone	3.78	43	11353	14.516	ug/l	98
18) Methyl Acetate	4.29	43	4639	1.410	ug/l #	90
20) Methylene Chloride	4.50	84	14227	9.321	ug/l	97
25) 2-Butanone	6.80	43	2578	2.327	ug/l #	82
29) Tetrahydrofuran	7.17	42	433	0.602	ug/l #	38
31) Cyclohexane	7.62	56	3095	1.179	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11242	4.680	ug/l #	49
38) Carbon Tetrachloride	7.63	117	14053	4.946	ug/l #	15
43) Isopropyl Acetate	8.13	43	44819	10.708	ug/l	99
45) 1,2-Dichloropropane	9.24	63	968	0.499	ug/l #	45
48) Methyl methacrylate	9.15	41	3057	1.485	ug/l #	13
51) 4-Methyl-2-Pentanone	9.95	43	6069	2.241	ug/l	93
54) cis-1,3-Dichloropropene	9.88	75	18258	5.791	ug/l #	64
56) Ethyl methacrylate	10.51	69	1133	0.398	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3340	1.040	ug/l #	43
59) 2-Hexanone	10.74	43	48830	24.172	ug/l #	53
74) N-amyl acetate	12.01	43	1569	0.578	ug/l #	44
76) 1,2,3-Trichloropropane	12.38	75	61301	25.543	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	61301	77.976	ug/l #	10

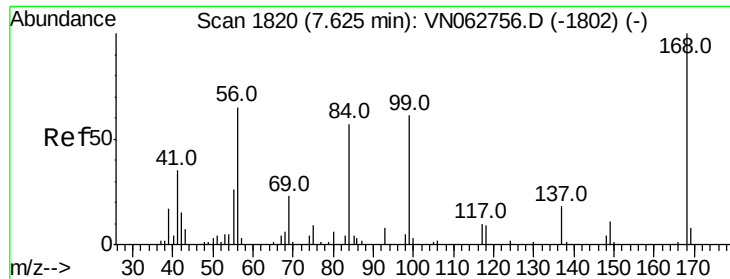
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 05 13:26:42 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062791.D

Acq: 7 Aug 2020 20:06

Instrument :

MSVOA_N

ClientSampled :

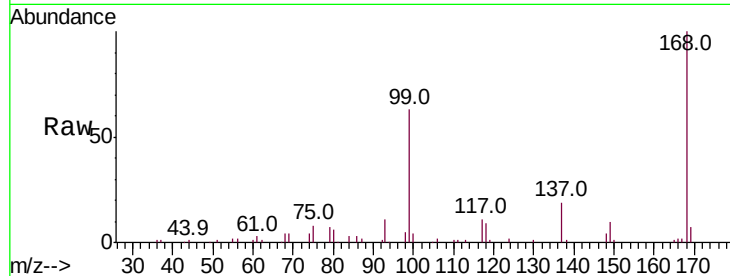
TP-2

Tot Ion:168 Resp: 130887

Ion Ratio Lower Upper

168 100

99 63.1 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

50000

40000

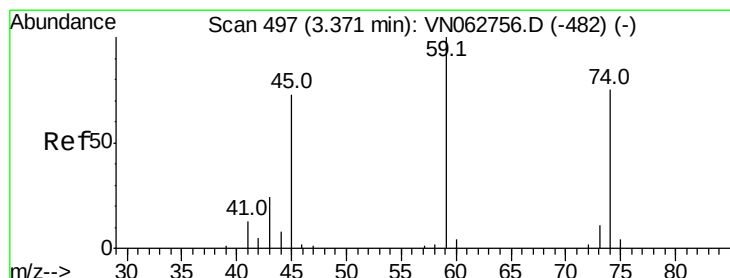
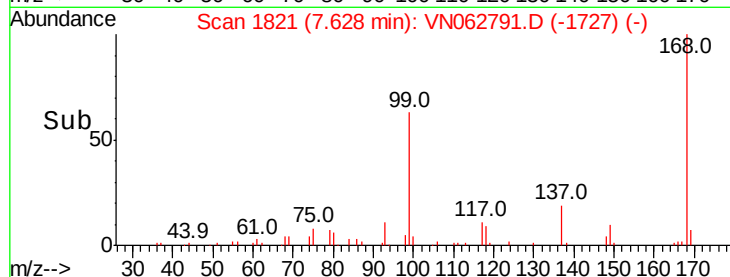
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#8

Diethyl Ether

Concen: 1.056 ug/l

RT: 3.37 min Scan# 498

Delta R.T. 0.00 min

Lab File: VN062791.D

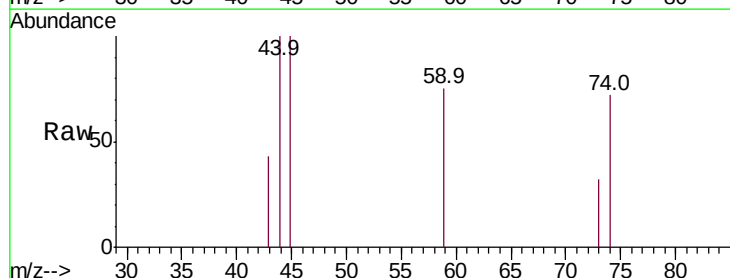
Acq: 7 Aug 2020 20:06

Tgt Ion: 74 Resp: 894

Ion Ratio Lower Upper

74 100

45 140.0 48.7 146.1



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN

3.37

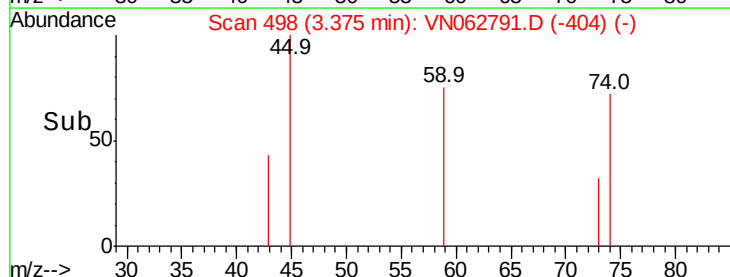
600

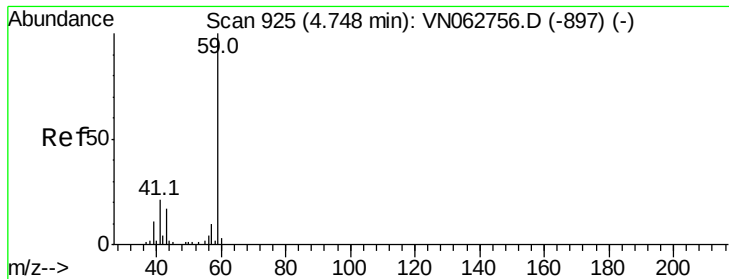
400

200

0

Time--> 3.35 3.40





#11

Tert butyl alcohol

Concen: 0.896 ug/l

RT: 4.70 min Scan# 910

Delta R.T. -0.05 min

Lab File: VN062791.D

Acq: 7 Aug 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

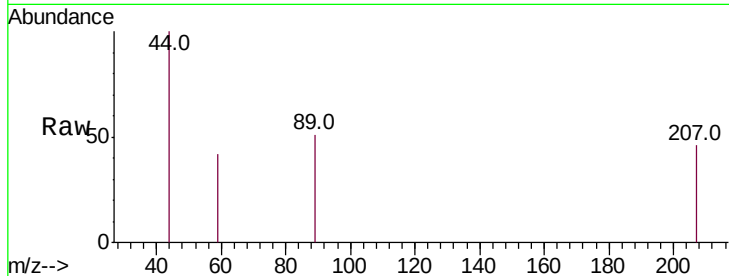
TP-2

Tot Ion: 59 Resp: 318

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN062756.D (-897) (-)

Ion 57.00 (56.70 to 57.70): VN062756.D (-897) (-)

4.70

200

150

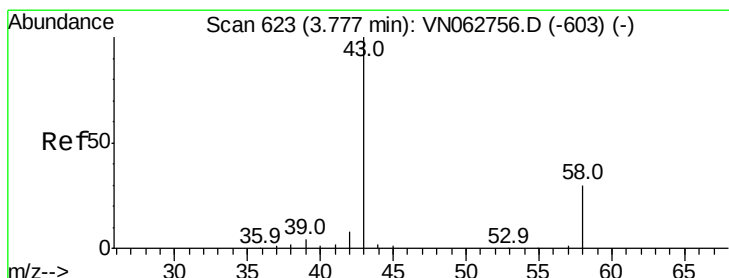
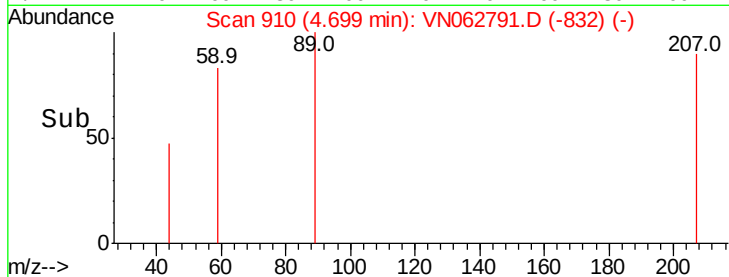
100

50

0

4.66 4.68 4.70 4.72

Time-->



#16

Acetone

Concen: 14.516 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN062791.D

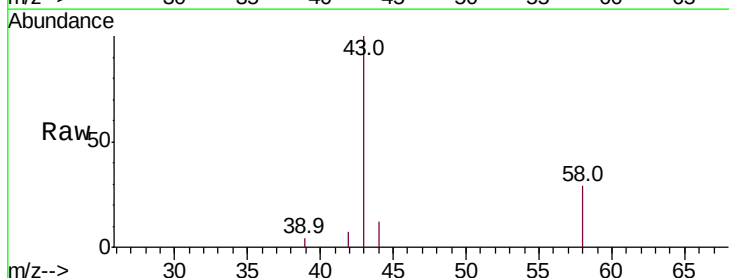
Acq: 7 Aug 2020 20:06

Tgt Ion: 43 Resp: 11353

Ion Ratio Lower Upper

43 100

58 29.2 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-603) (-)

Ion 58.00 (57.70 to 58.70): VN062756.D (-603) (-)

3.78

4000

3000

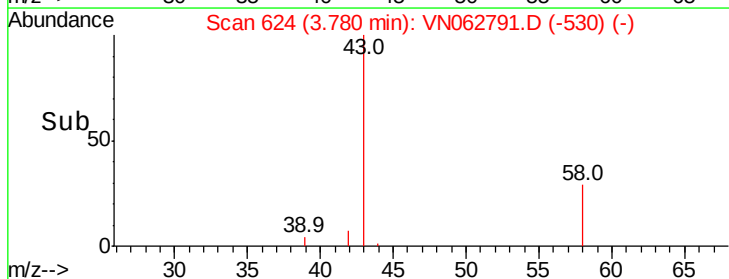
2000

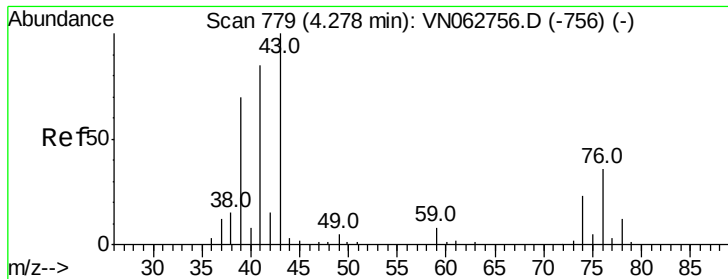
1000

0

3.70 3.75 3.80 3.85

Time-->

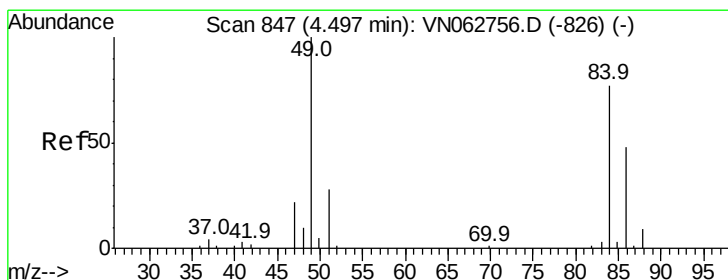
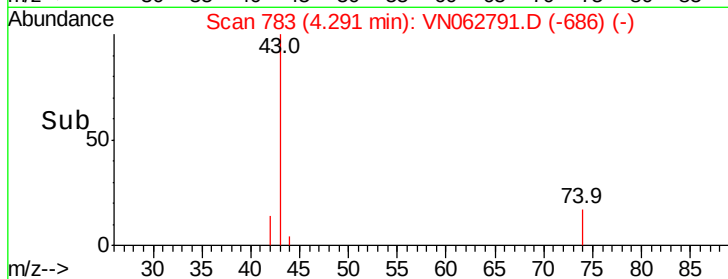
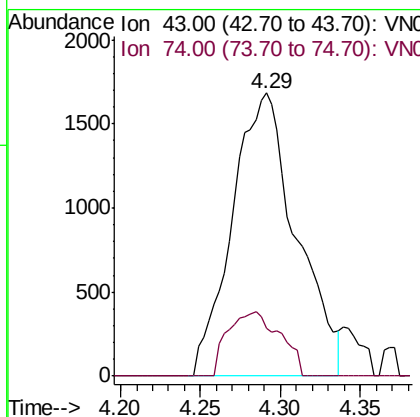
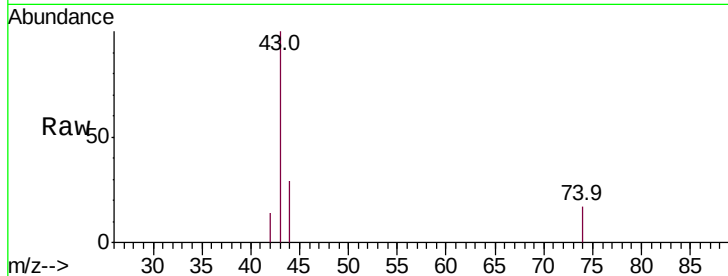




#18
Methyl Acetate
Concen: 1.410 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.01 min
Lab File: VN062791.D
Acq: 7 Aug 2020 20:06

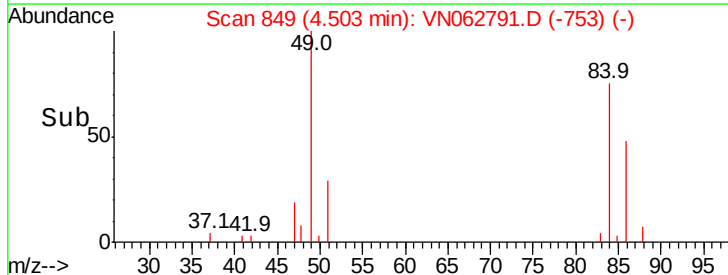
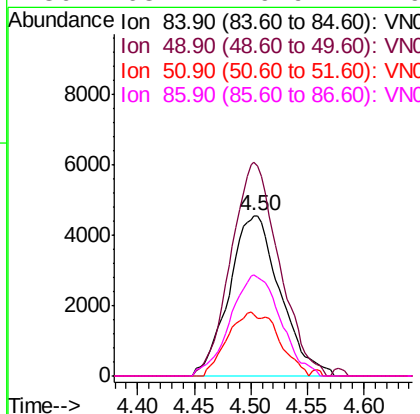
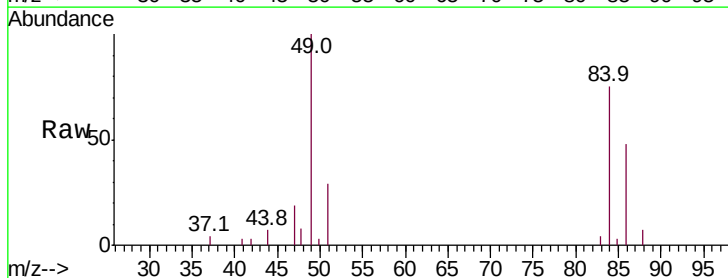
Instrument :
MSVOA_N
ClientSampleId :
TP-2

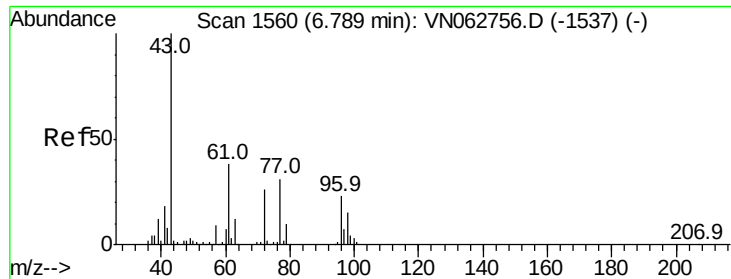
Tot Ion: 43 Resp: 4639
Ion Ratio Lower Upper
43 100
74 18.5 18.6 28.0#



#20
Methylene Chloride
Concen: 9.321 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.01 min
Lab File: VN062791.D
Acq: 7 Aug 2020 20:06

Tgt Ion: 84 Resp: 14227
Ion Ratio Lower Upper
84 100
49 133.2 103.4 155.2
51 38.5 29.3 43.9
86 63.4 49.9 74.9





#25

2-Butanone

Concen: 2.327 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.01 min

Lab File: VN062791.D

Acq: 7 Aug 2020 20:06

Instrument :

MSVOA_N

ClientSampled :

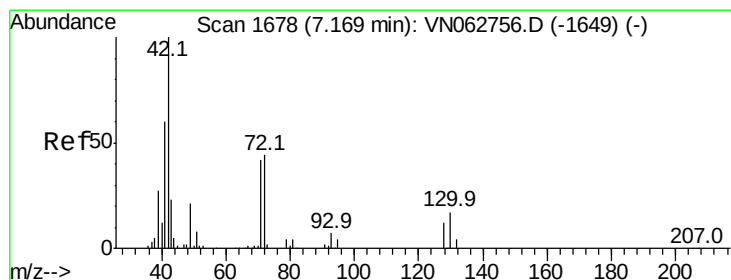
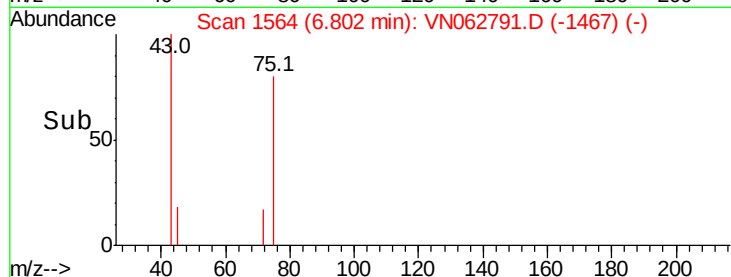
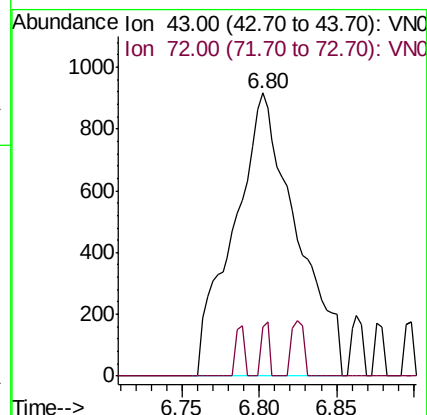
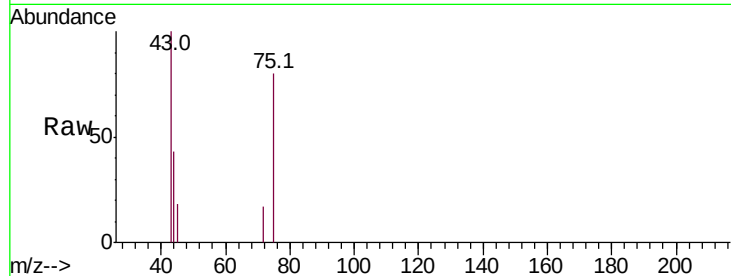
TP-2

Tot Ion: 43 Resp: 2578

Ion Ratio Lower Upper

43 100

72 17.3 21.1 31.7#



#29

Tetrahydrofuran

Concen: 0.602 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VN062791.D

Acq: 7 Aug 2020 20:06

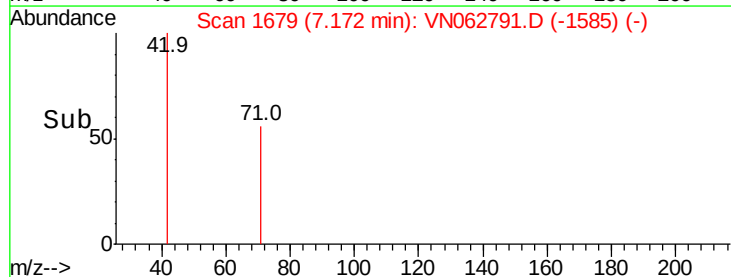
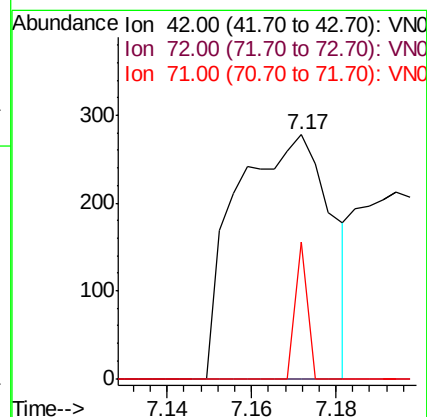
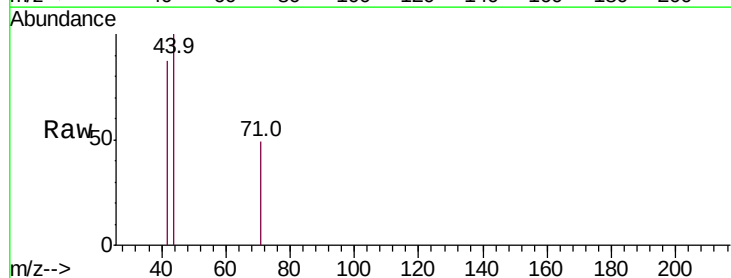
Tgt Ion: 42 Resp: 433

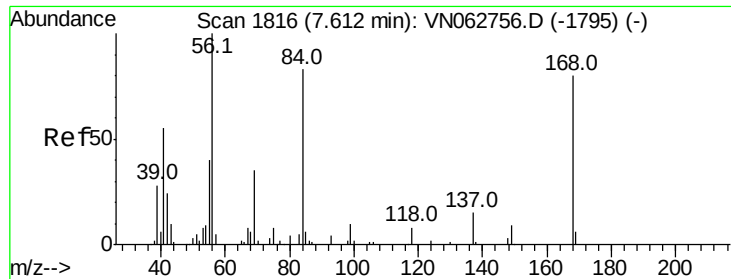
Ion Ratio Lower Upper

42 100

72 0.0 35.0 52.4#

71 6.9 33.2 49.8#

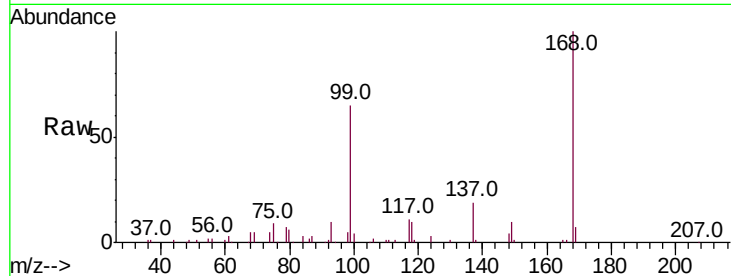




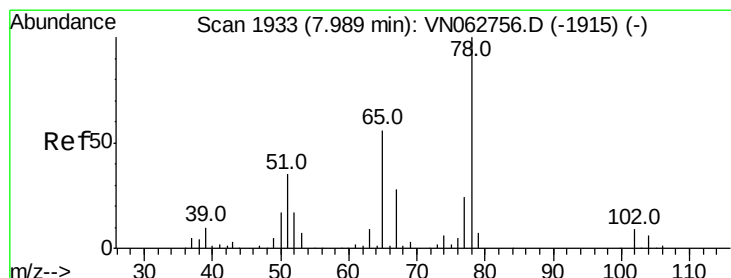
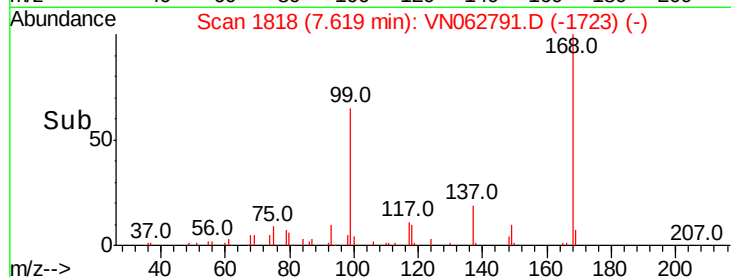
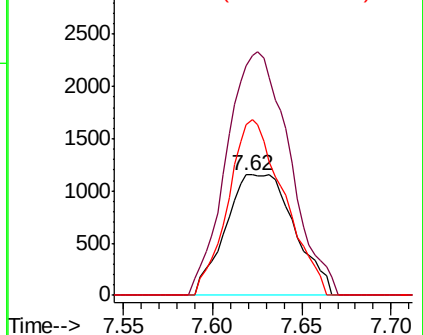
#31
Cyclohexane
Concen: 1.179 ug/l
RT: 7.62 min Scan# 1818
Delta R.T. 0.01 min
Lab File: VN062791.D
Acq: 7 Aug 2020 20:06

Instrument :
MSVOA_N
ClientSampled :
TP-2

Tot Ion: 56 Resp: 3095
Ion Ratio Lower Upper
56 100
69 190.7 28.1 42.1#
84 141.0 66.8 100.2#

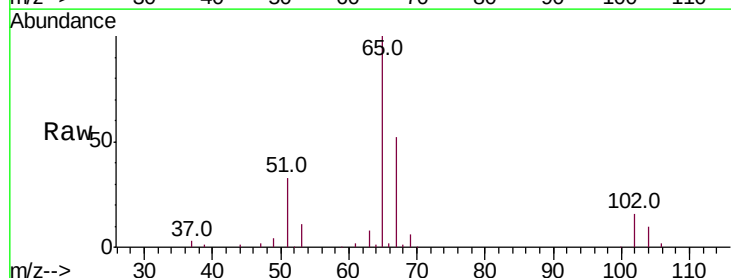


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

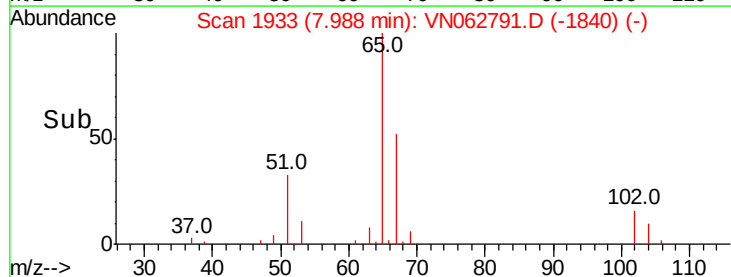
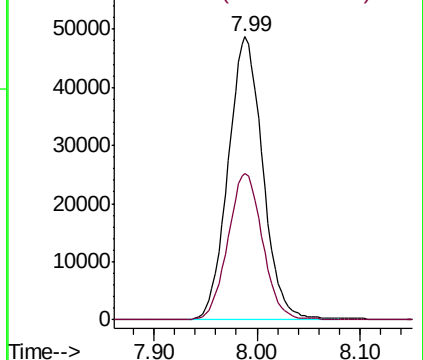


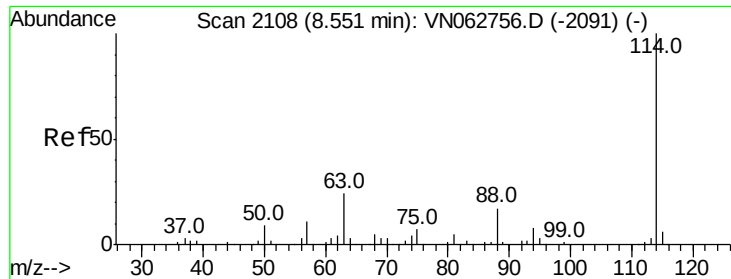
#33
1,2-Dichloroethane-d4
Concen: 52.670 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN062791.D
Acq: 7 Aug 2020 20:06

Tgt Ion: 65 Resp: 114003
Ion Ratio Lower Upper
65 100
67 51.7 0.0 101.4



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

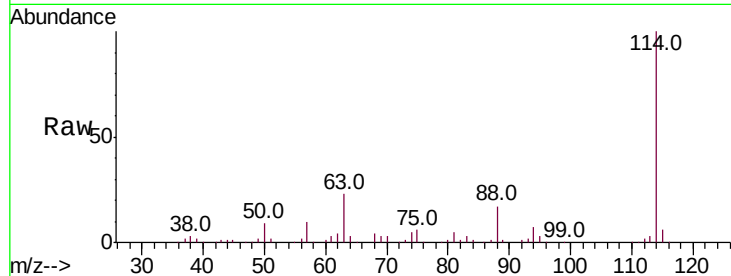




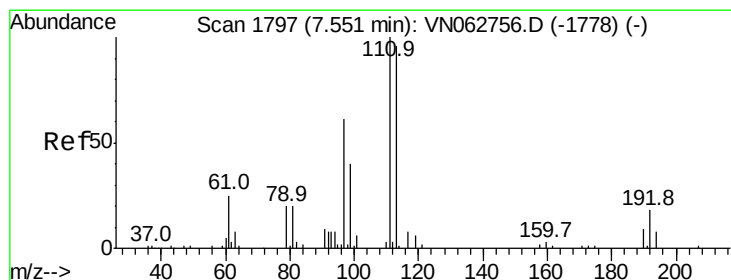
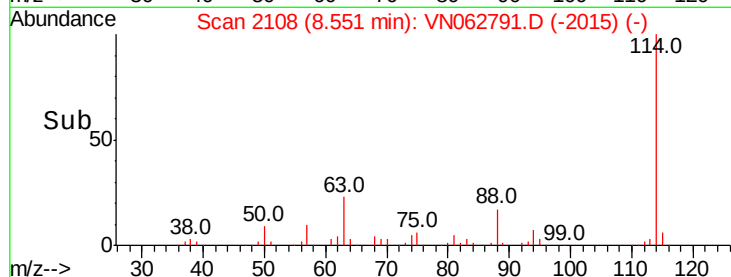
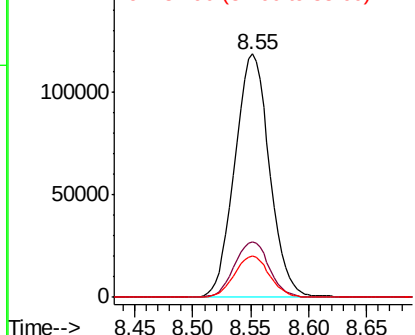
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062791.D
 Acq: 7 Aug 2020 20:06

Instrument :
 MSVOA_N
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 TP-2

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	47.6
88	16.8	0.0	34.4

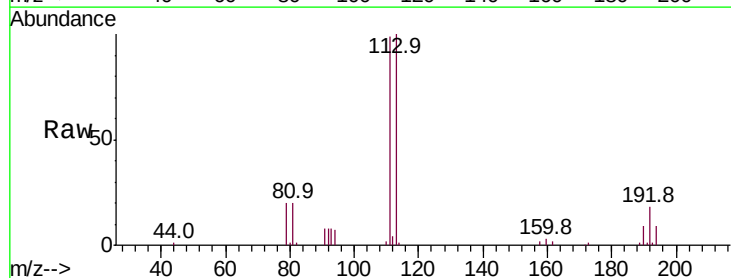


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

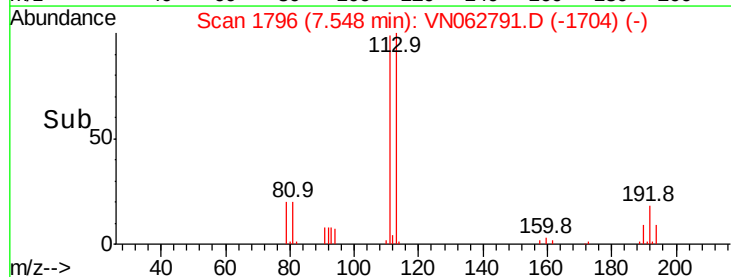
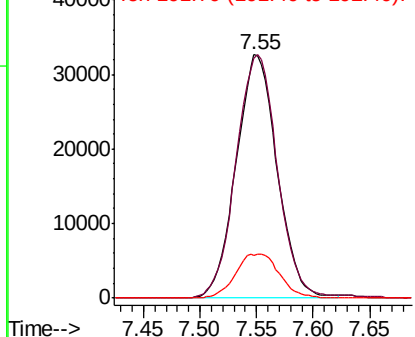


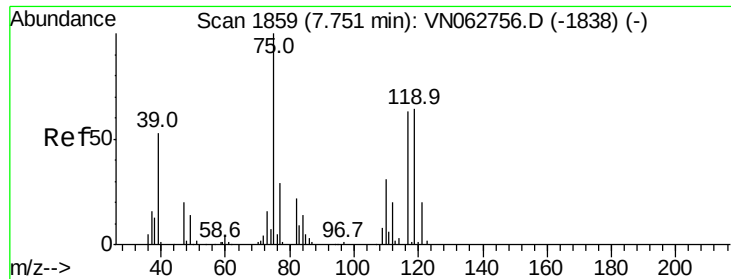
#35
 Dibromofluoromethane
 Concen: 48.817 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062791.D
 Acq: 7 Aug 2020 20:06

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.8	122.6
192	19.3	15.0	22.4



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

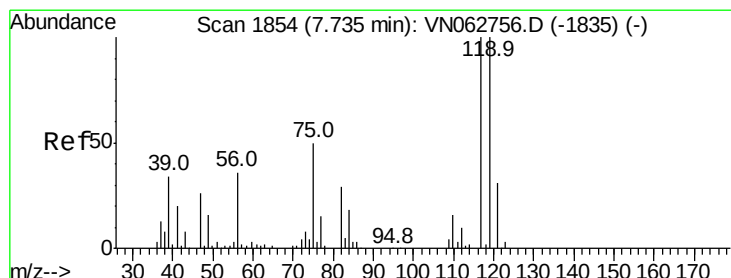
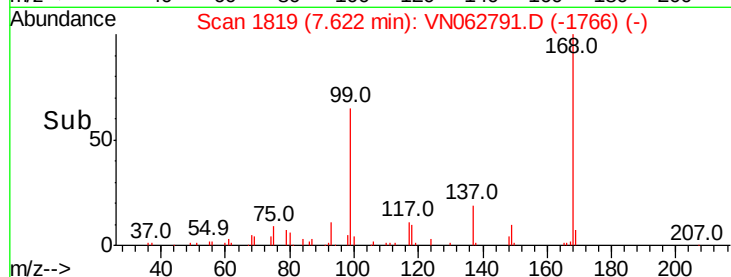
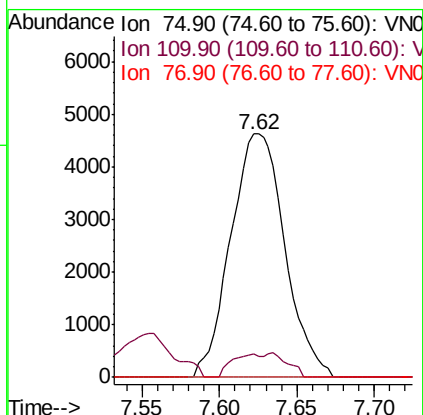
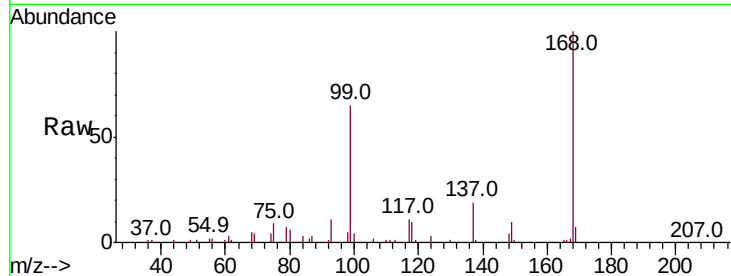




#36
 1,1-Dichloropropene
 Concen: 4.680 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062791.D
 Acq: 7 Aug 2020 20:06

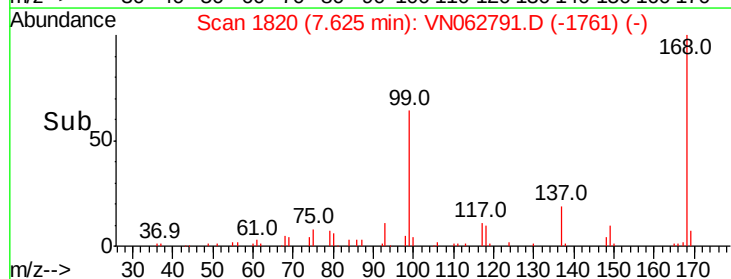
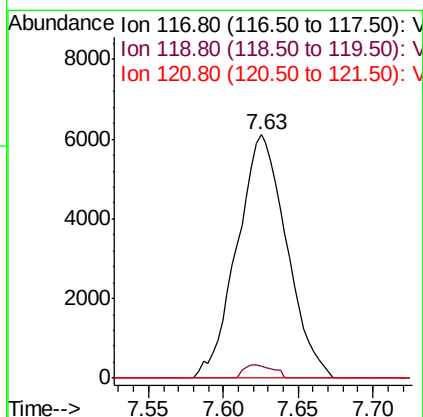
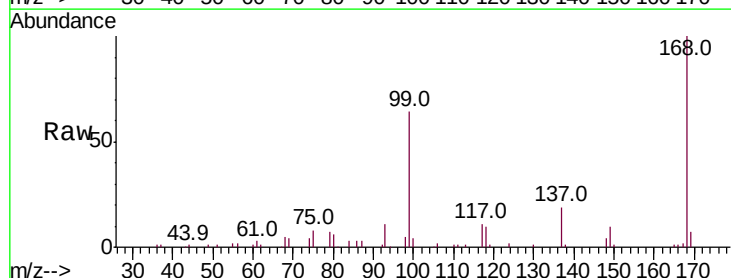
Instrument :
 MSVOA_N
 ClientSampled :
 TP-2

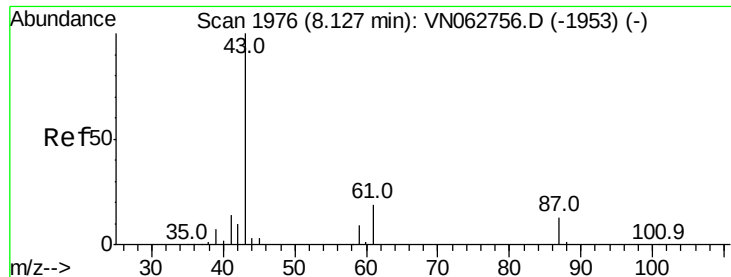
Tot Ion	Ratio	Lower	Upper
75	100		
110	5.5	15.6	46.7#
77	0.0	24.1	36.1#



#38
 Carbon Tetrachloride
 Concen: 4.946 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN062791.D
 Acq: 7 Aug 2020 20:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	79.4	119.2#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 10.708 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062791.D

Acq: 7 Aug 2020 20:06

Instrument :

MSVOA_N

ClientSampled :

TP-2

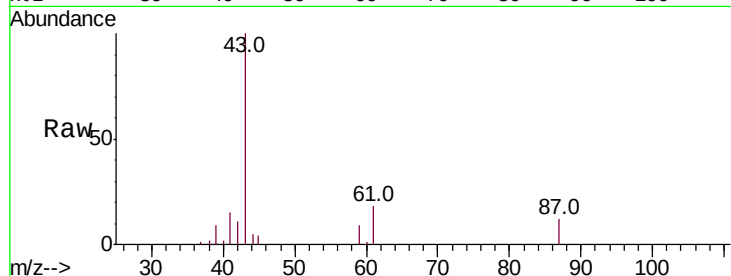
Tot Ion: 43 Resp: 44819

Ion Ratio Lower Upper

43 100

61 19.2 15.8 23.6

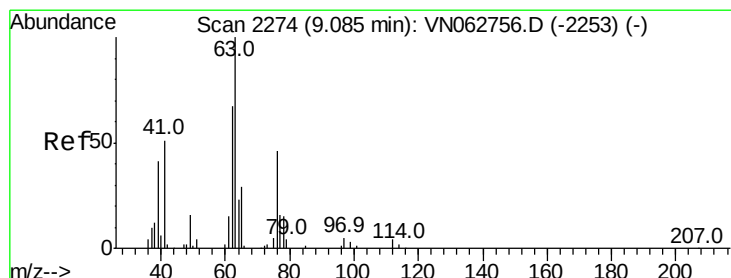
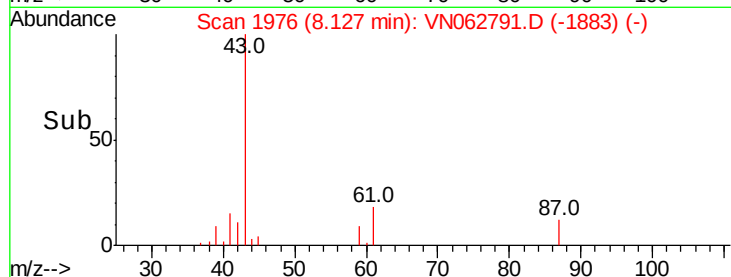
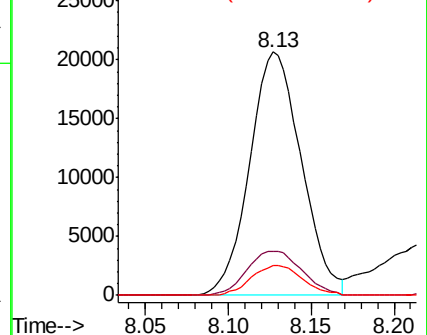
87 12.2 9.9 14.9



Abundance Ion 43.00 (42.70 to 43.70): VN062791.D (-1953) (-)

Ion 61.00 (60.70 to 61.70): VN062791.D (-1953) (-)

Ion 87.00 (86.70 to 87.70): VN062791.D (-1953) (-)



#45

1,2-Dichloropropane

Concen: 0.499 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062791.D

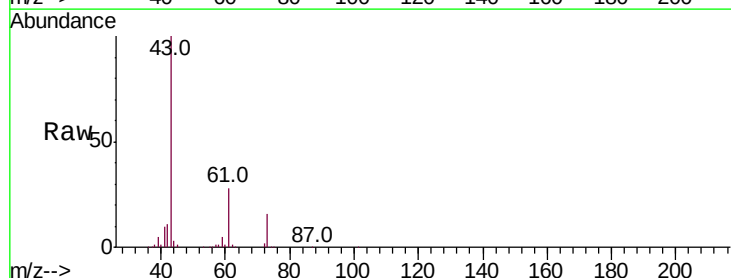
Acq: 7 Aug 2020 20:06

Tgt Ion: 63 Resp: 968

Ion Ratio Lower Upper

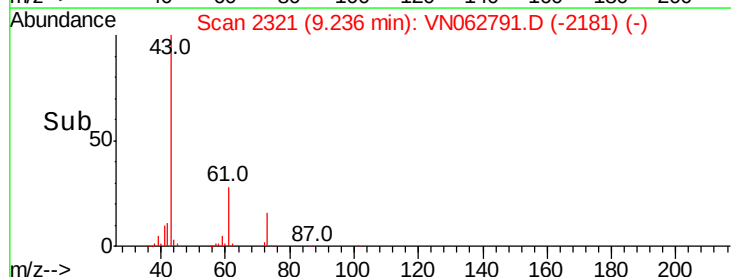
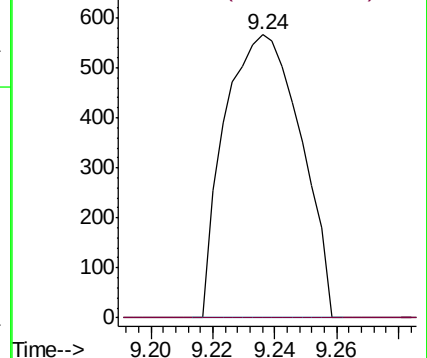
63 100

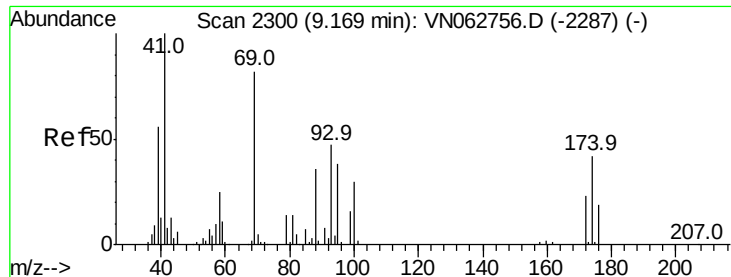
65 0.0 23.5 35.3#



Abundance Ion 62.90 (62.60 to 63.60): VN062791.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN062791.D (-2181) (-)





#48

Methvl methacrylate

Concen: 1.485 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN062791.D

Acq: 7 Aug 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

TP-2

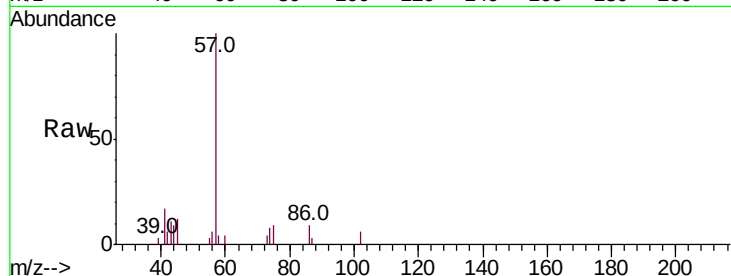
Tot Ion: 41 Resp: 3057

Ion Ratio Lower Upper

41 100

69 0.0 67.4 101.2#

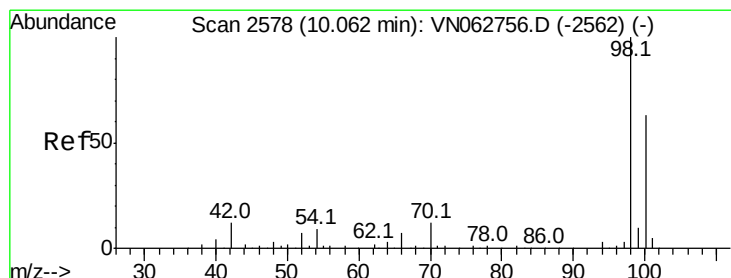
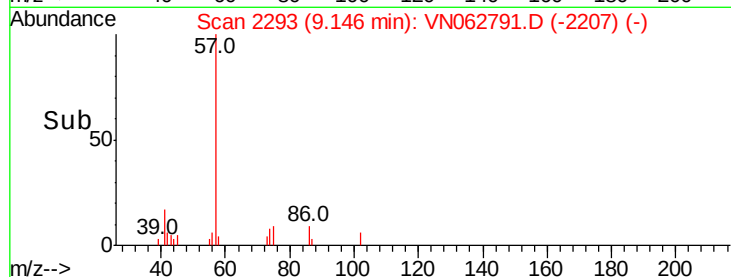
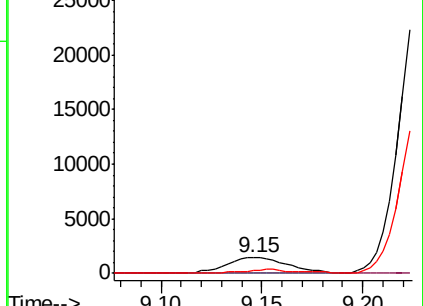
39 0.0 47.6 71.4#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#50

Toluene-d8

Concen: 48.735 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. -0.00 min

Lab File: VN062791.D

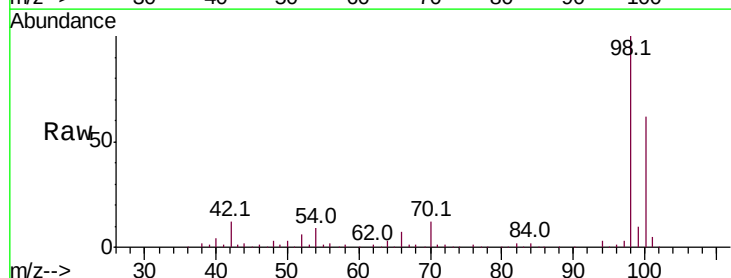
Acq: 7 Aug 2020 20:06

Tgt Ion: 98 Resp: 321094

Ion Ratio Lower Upper

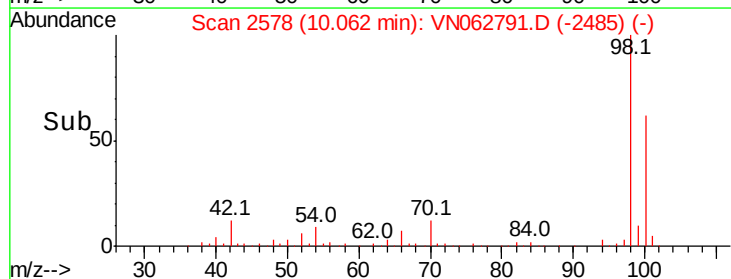
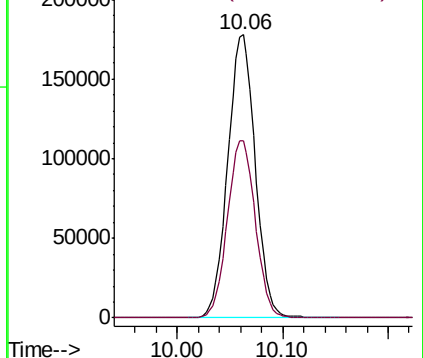
98 100

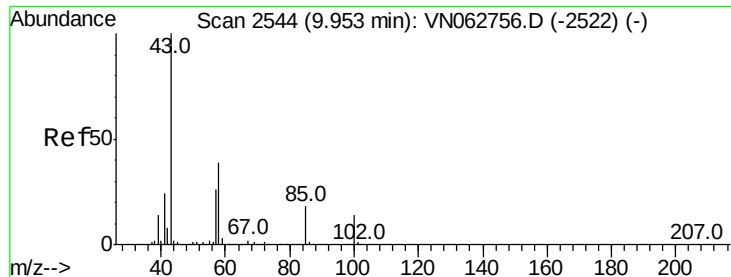
100 63.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

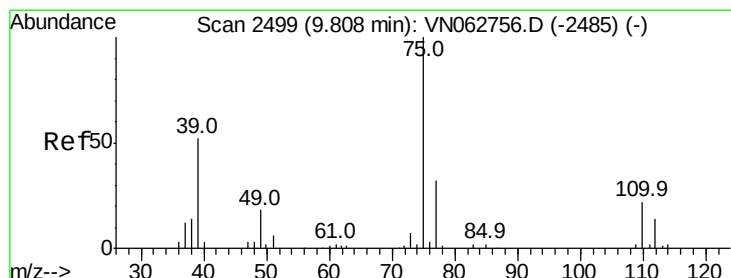
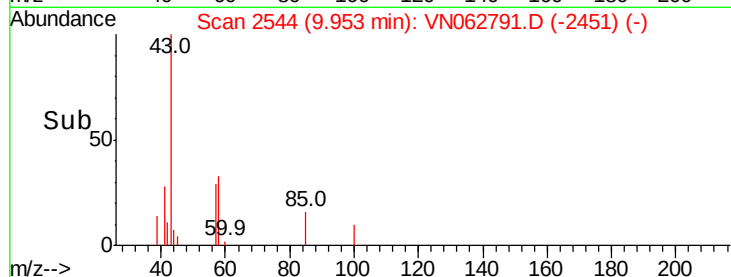
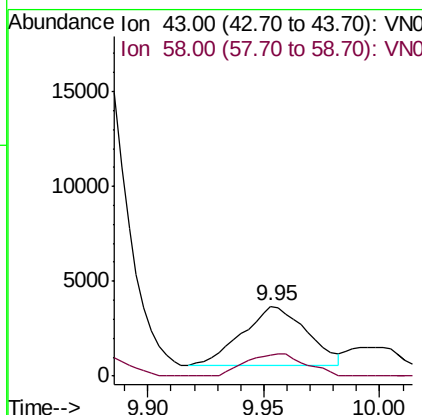
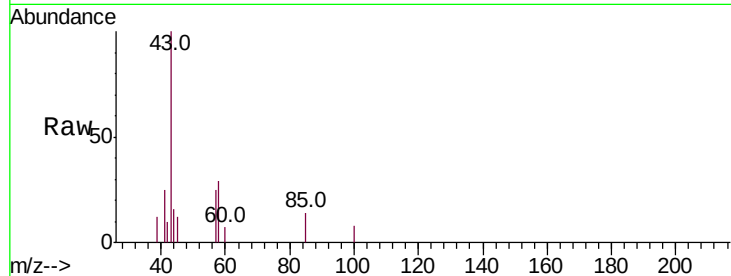




#51
4-Methyl-2-Pentanone
Concen: 2.241 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN062791.D
Acq: 7 Aug 2020 20:06

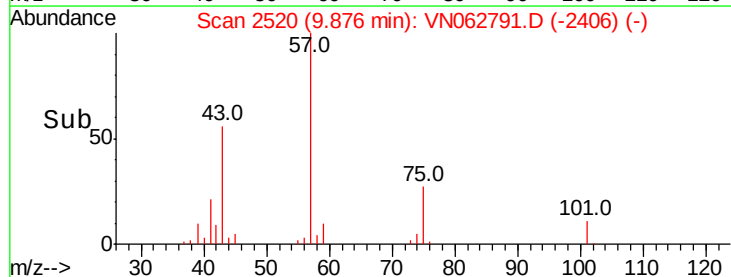
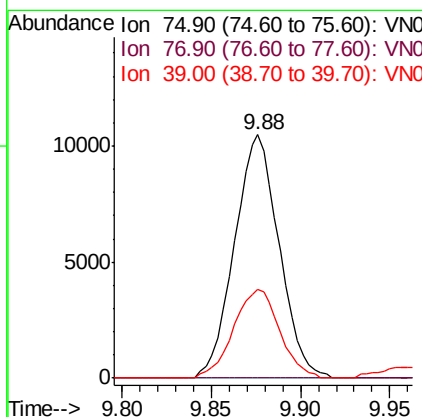
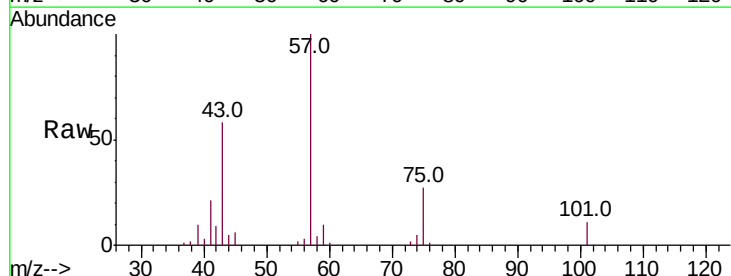
Instrument :
MSVOA_N
ClientSampled :
TP-2

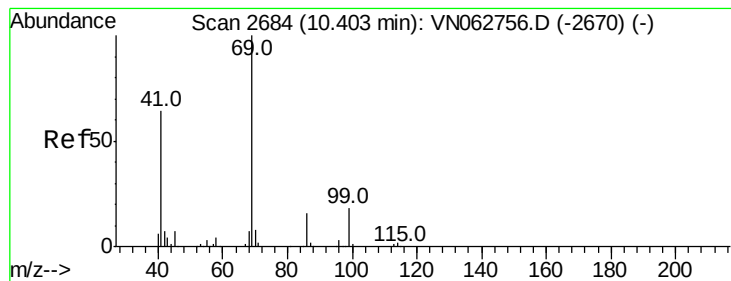
Tot Ion: 43 Resp: 6069
Ion Ratio Lower Upper
43 100
58 34.9 31.1 46.7



#54
cis-1,3-Dichloropropene
Concen: 5.791 ug/l
RT: 9.88 min Scan# 2520
Delta R.T. 0.07 min
Lab File: VN062791.D
Acq: 7 Aug 2020 20:06

Tgt Ion: 75 Resp: 18258
Ion Ratio Lower Upper
75 100
77 0.0 25.5 38.3#
39 36.6 41.9 62.9#





#56

Ethyl methacrylate

Concen: 0.398 ug/l

RT: 10.51 min Scan# 2717

Delta R.T. 0.11 min

Lab File: VN062791.D

Acq: 7 Aug 2020 20:06

Instrument :

MSVOA_N

ClientSampled :

TP-2

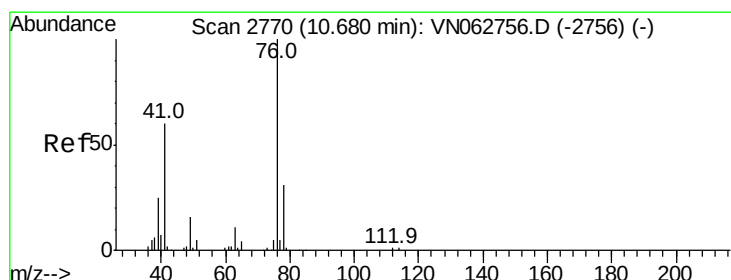
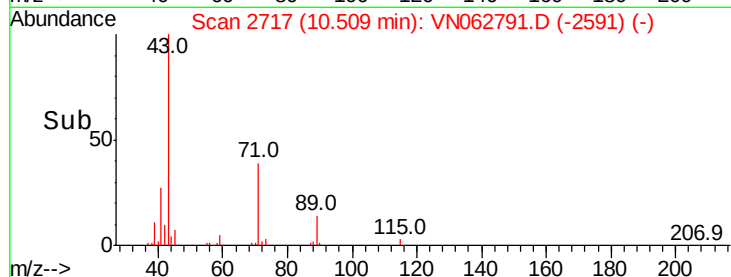
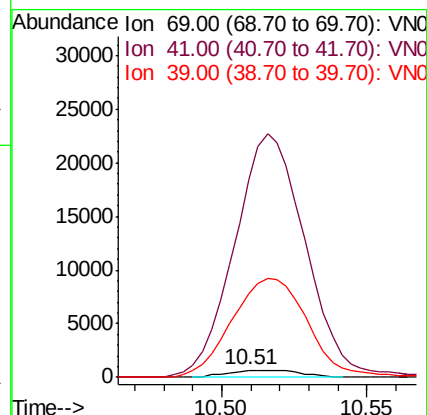
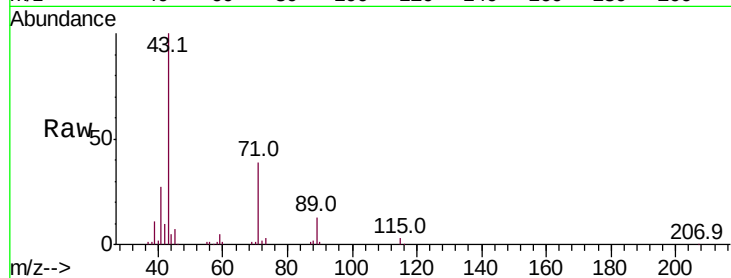
Tot Ion: 69 Resp: 1133

Ion Ratio Lower Upper

69 100

41 3406.3 52.2 78.2#

39 1480.1 30.9 46.3#



#57

1,3-Dichloropropane

Concen: 1.040 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062791.D

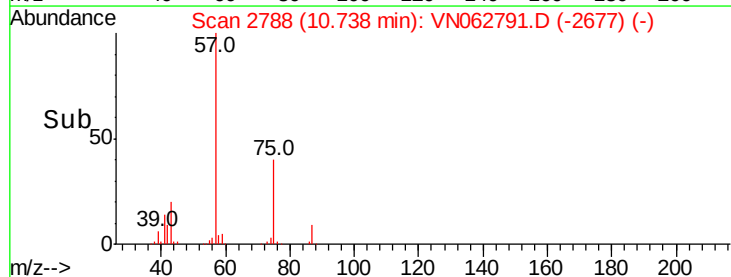
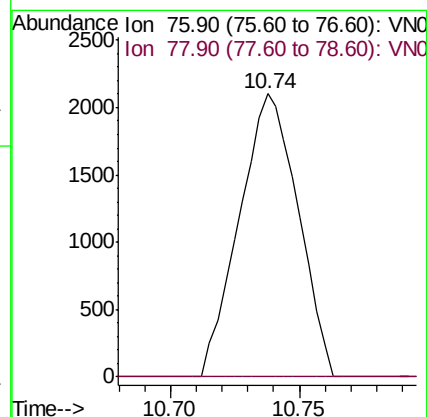
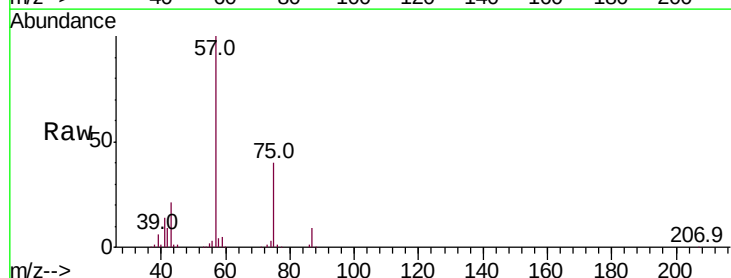
Acq: 7 Aug 2020 20:06

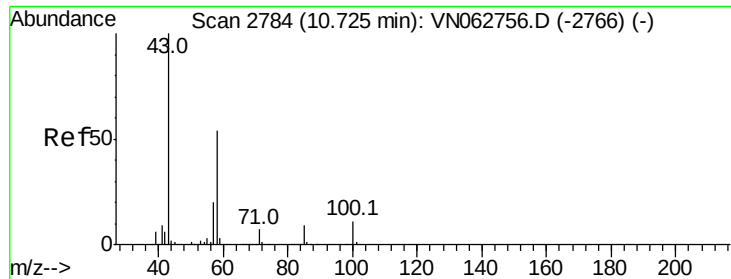
Tgt Ion: 76 Resp: 3340

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.0#





#59

2-Hexanone

Concen: 24.172 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.01 min

Lab File: VN062791.D

Acq: 7 Aug 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

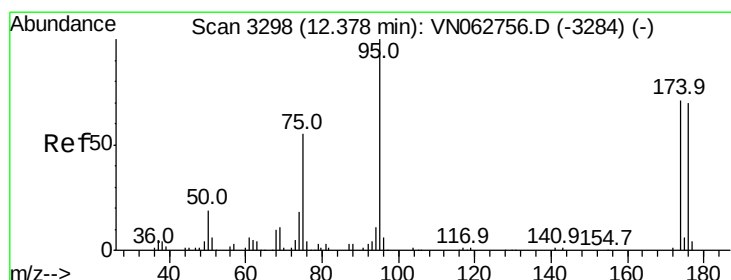
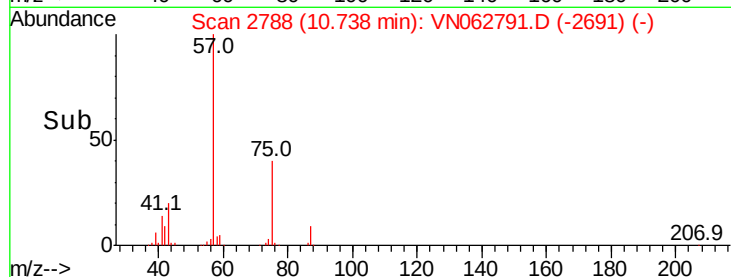
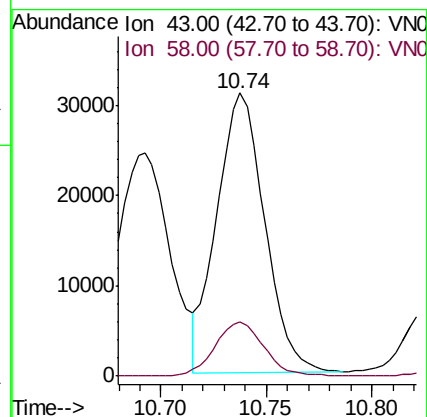
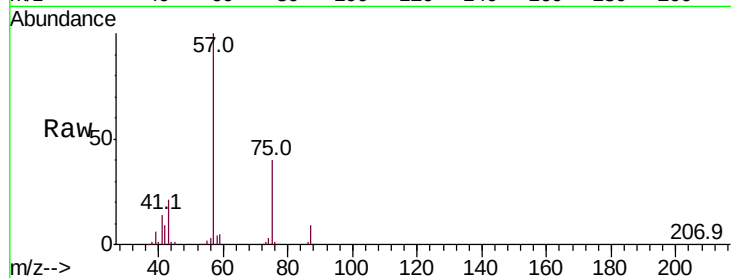
TP-2

Tot Ion: 43 Resp: 48830

Ion Ratio Lower Upper

43 100

58 19.6 26.7 80.1#



#62

4-Bromofluorobenzene

Concen: 45.505 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062791.D

Acq: 7 Aug 2020 20:06

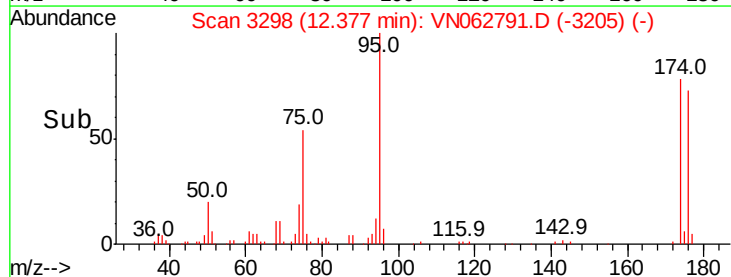
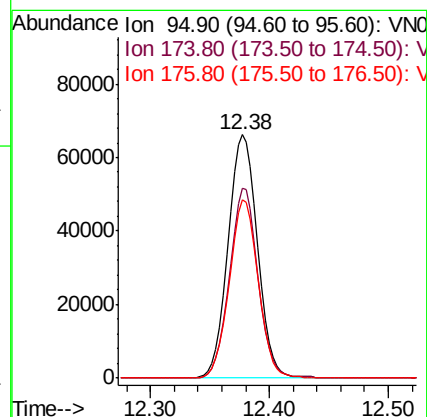
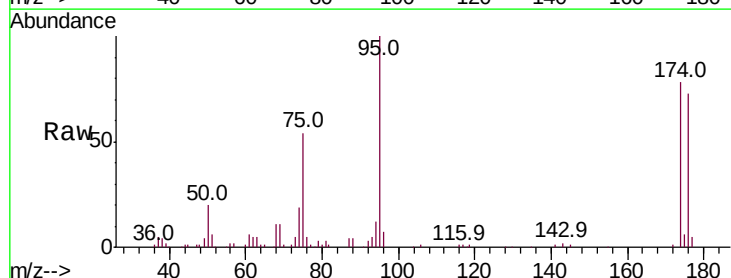
Tgt Ion: 95 Resp: 113299

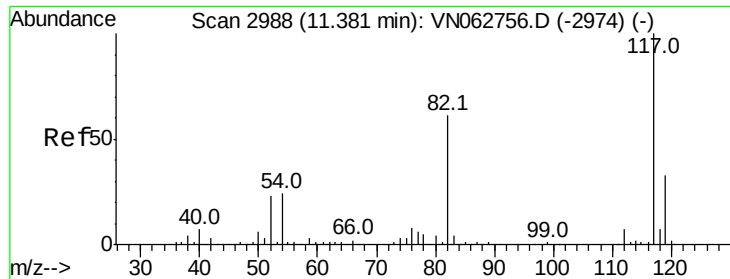
Ion Ratio Lower Upper

95 100

174 75.6 0.0 144.8

176 72.0 0.0 142.2

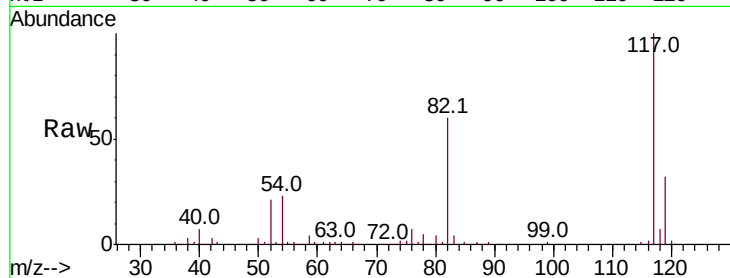




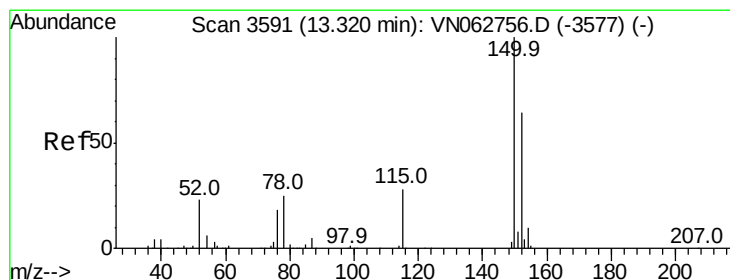
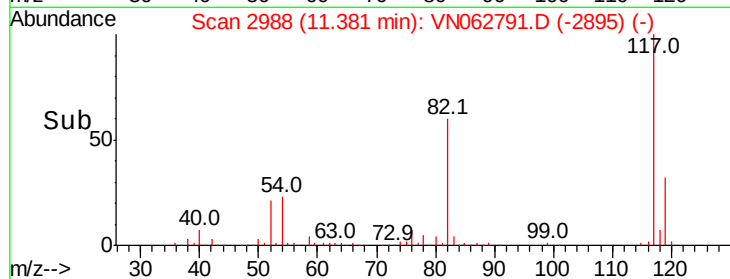
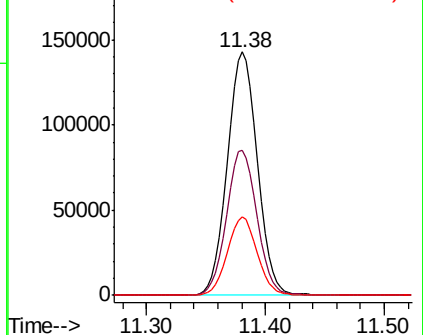
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062791.D
Acq: 7 Aug 2020 20:06

Instrument :
MSVOA_N
ClientSampleId :
TP-2

Tot Ion:117 Resp: 250488
Ion Ratio Lower Upper
117 100
82 59.8 49.0 73.4
119 32.3 26.2 39.2

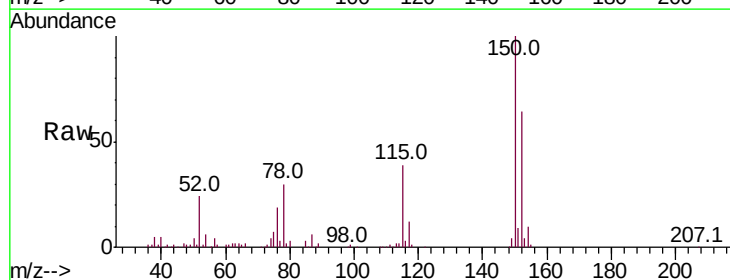


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

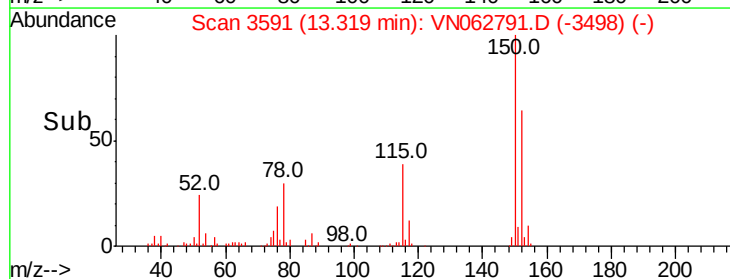
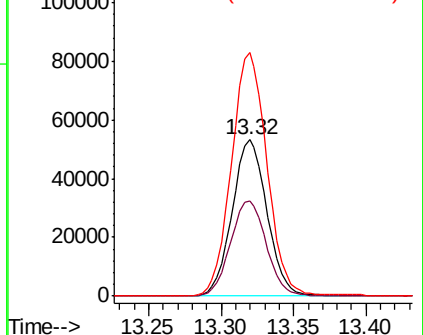


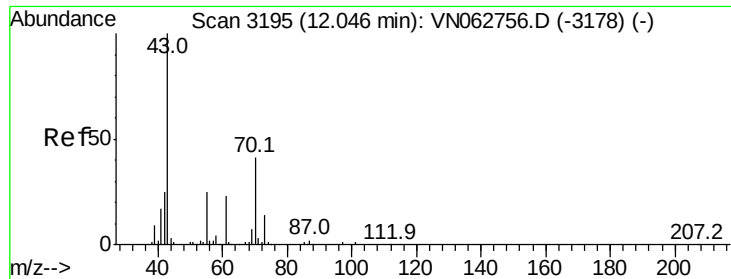
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. -0.00 min
Lab File: VN062791.D
Acq: 7 Aug 2020 20:06

Tgt Ion:152 Resp: 88988
Ion Ratio Lower Upper
152 100
115 62.7 31.6 94.8
150 158.9 0.0 349.2



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

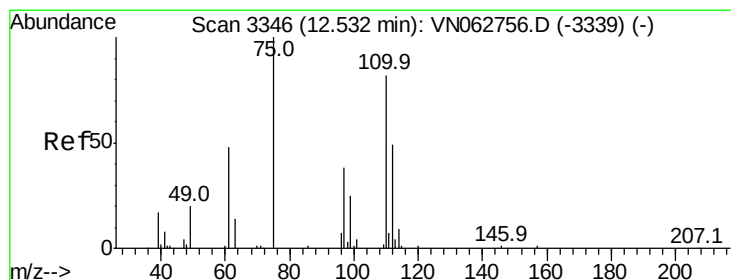
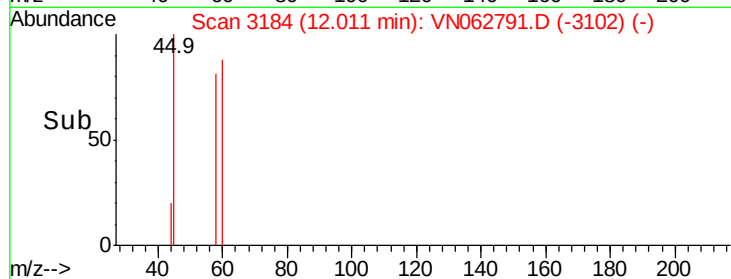
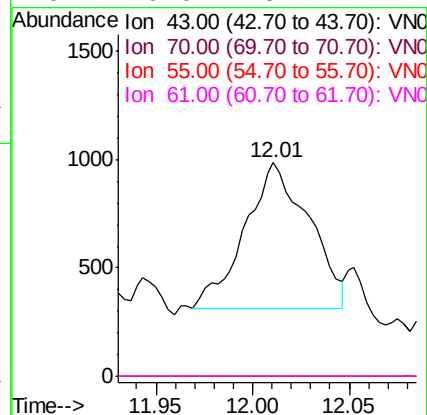
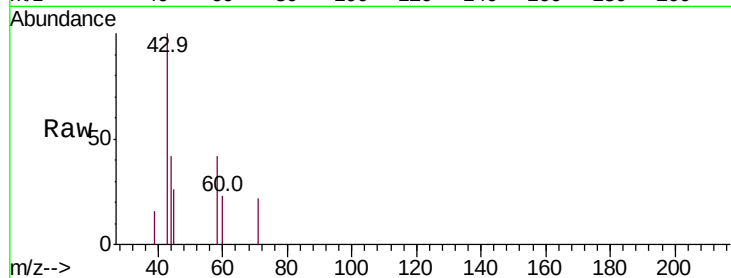




#74
N-amvl acetate
Concen: 0.578 ug/l
RT: 12.01 min Scan# 3184
Delta R.T. -0.04 min
Lab File: VN062791.D
Acq: 7 Aug 2020 20:06

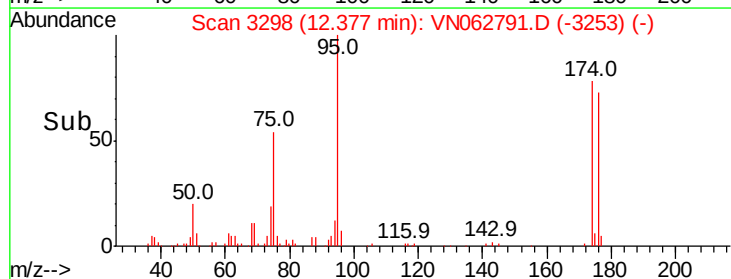
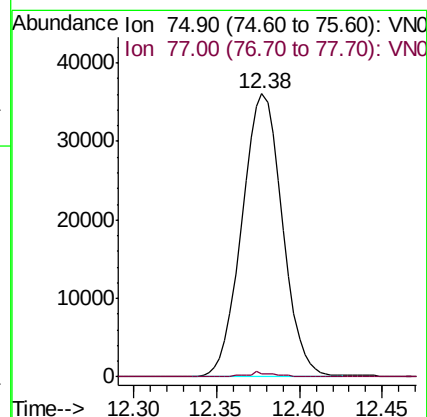
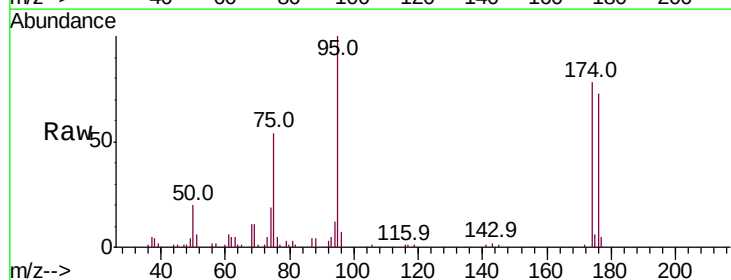
Instrument :
MSVOA_N
ClientSampled :
TP-2

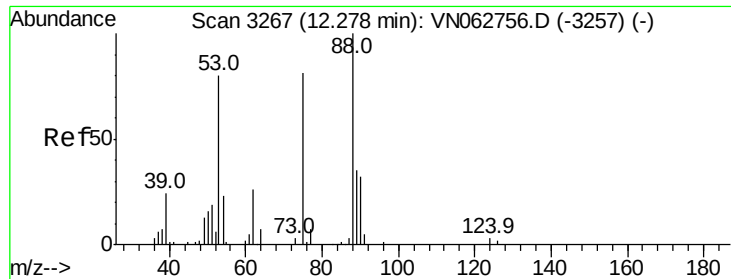
Tot Ion: 43 Resp: 1569
Ion Ratio Lower Upper
43 100
70 0.0 32.3 48.5#
55 0.0 20.2 30.2#
61 0.0 18.2 27.4#



#76
1,2,3-Trichloropropane
Concen: 25.543 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN062791.D
Acq: 7 Aug 2020 20:06

Tgt Ion: 75 Resp: 61301
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 77.976 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062791.D

Acq: 7 Aug 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

TP-2

Tot Ion: 75 Resp: 61301

Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

89 0.0 36.2 54.2#

