

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081720\
 Data File : VN062990.D
 Acq On : 17 Aug 2020 23:57
 Operator : JC/MD
 Sample : L3696-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 W-1

Quant Time: Aug 18 05:55:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081720W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 17 17:31:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	187720	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	302942	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	315590	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	132982	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	108181	54.40	ug/l	0.00
Spiked Amount			Recovery	=	108.80%	
35) Dibromofluoromethane	7.55	113	98906	50.13	ug/l	0.00
Spiked Amount			Recovery	=	100.26%	
50) Toluene-d8	10.06	98	380070	49.63	ug/l	0.00
Spiked Amount			Recovery	=	99.26%	
62) 4-Bromofluorobenzene	12.38	95	134828	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	

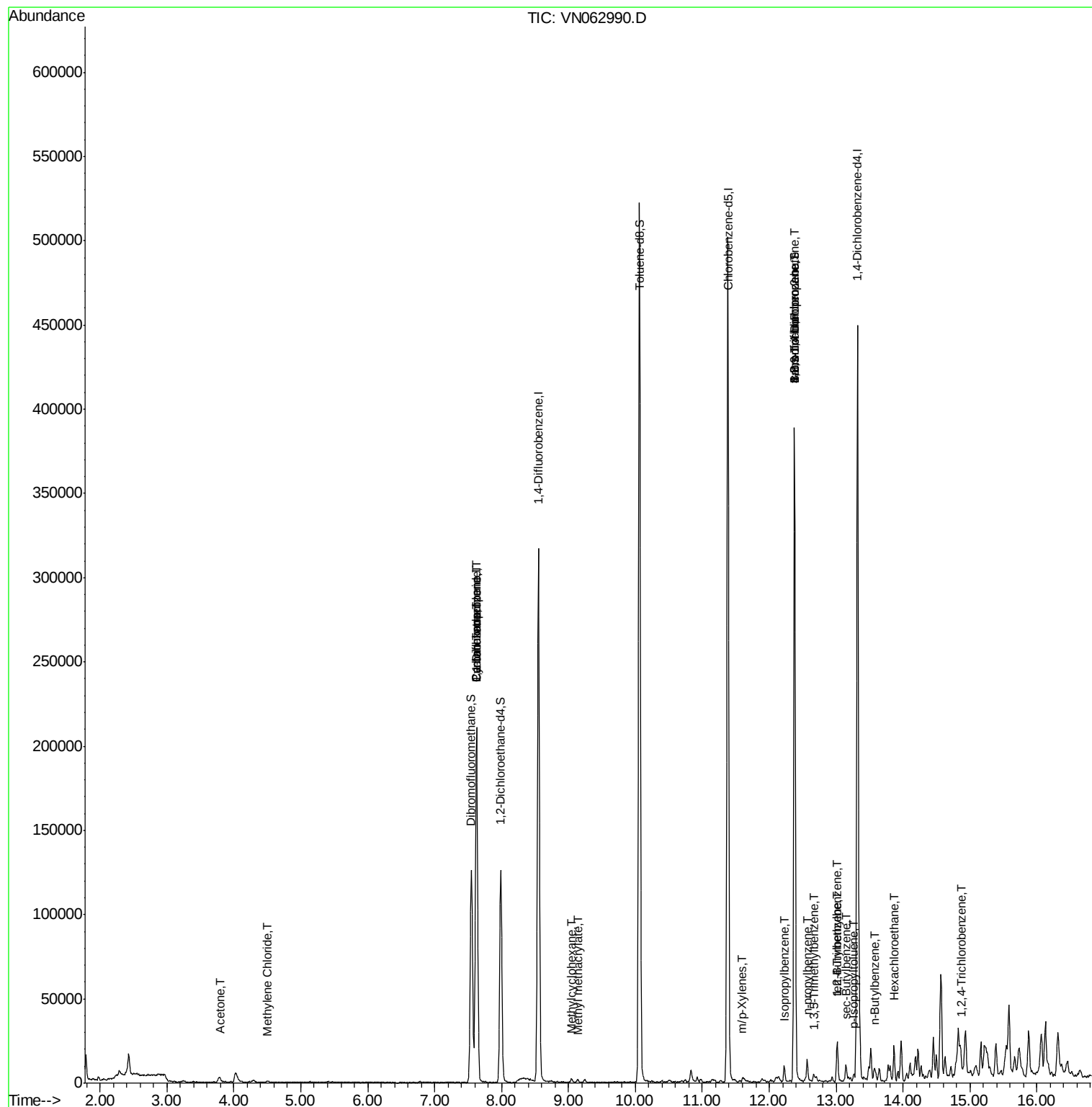
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	5186	6.735	ug/l	99
18) Methyl Acetate	4.30	43	2301	Below Cal	#	68
20) Methylene Chloride	4.50	84	548	0.903	ug/l #	58
31) Cyclohexane	7.63	56	3043	0.992	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11746	4.520	ug/l #	47
38) Carbon Tetrachloride	7.63	117	16115	5.869	ug/l #	17
39) Methylcyclohexane	9.05	83	966	0.280	ug/l	91
48) Methyl methacrylate	9.14	41	678	0.367	ug/l #	21
59) 2-Hexanone	10.72	43	93	Below Cal	#	21
68) m/p-Xylenes	11.60	106	834	0.203	ug/l	75
71) Bromoform	12.38	173	915	0.436	ug/l #	1
73) Isopropylbenzene	12.23	105	6946	0.757	ug/l	93
76) 1,2,3-Trichloropropane	12.38	75	61347	23.267	ug/l #	100
78) n-propylbenzene	12.57	91	11060	1.033	ug/l	95
80) 1,3,5-Trimethylbenzene	12.66	105	4039	0.523	ug/l	74
81) trans-1,4-Dichloro-2-buten	12.38	75	61347	62.549	ug/l #	16
83) tert-Butylbenzene	13.01	119	2182	0.328	ug/l #	69
84) 1,2,4-Trimethylbenzene	13.02	105	14247	1.907	ug/l	98
85) sec-Butylbenzene	13.15	105	7413	0.846	ug/l	97
86) p-Isopropyltoluene	13.26	119	2885	0.370	ug/l	93
89) n-Butylbenzene	13.59	91	3516	0.555	ug/l #	74
90) Hexachloroethane	13.87	117	1514	0.957	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.88	180	32	4.296	ug/l #	12
95) Naphthalene	15.10	128	957	Below Cal	#	69

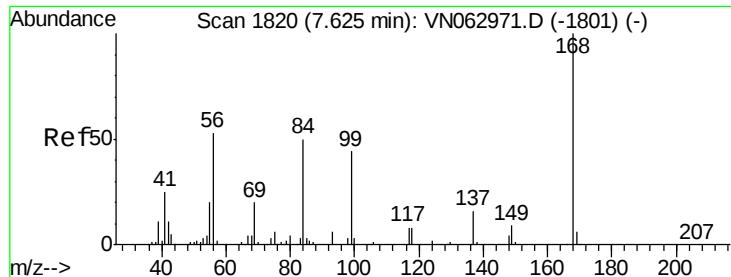
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Aug 17 17:31:03 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062990.D

Acq: 17 Aug 2020 23:57

Instrument :

MSVOA_N

ClientSampled :

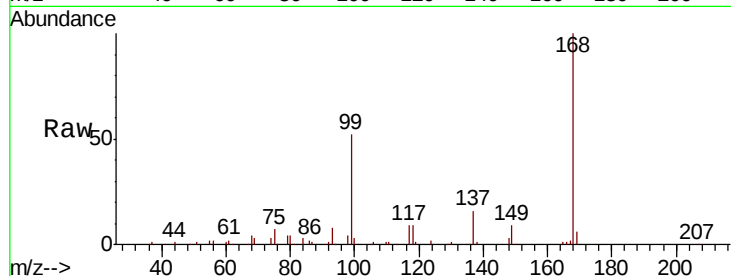
W-1

Tot Ion:168 Resp: 187720

Ion Ratio Lower Upper

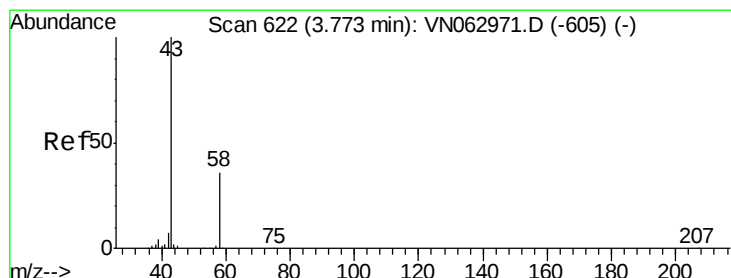
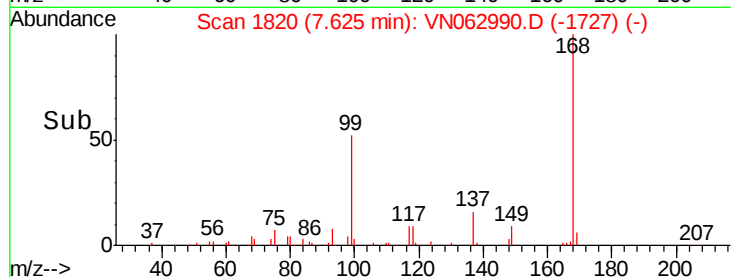
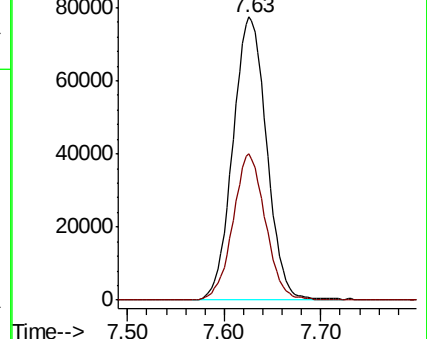
168 100

99 51.7 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 6.735 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN062990.D

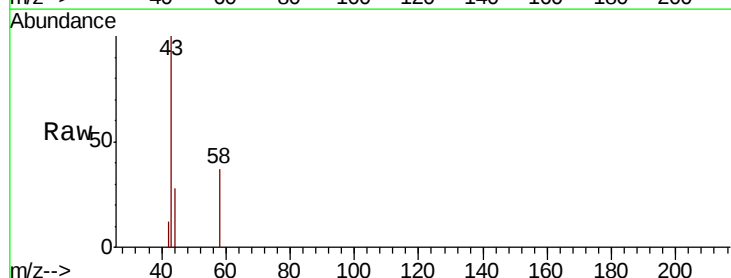
Acq: 17 Aug 2020 23:57

Tgt Ion: 43 Resp: 5186

Ion Ratio Lower Upper

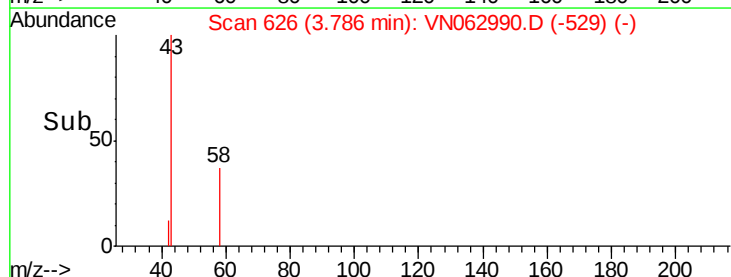
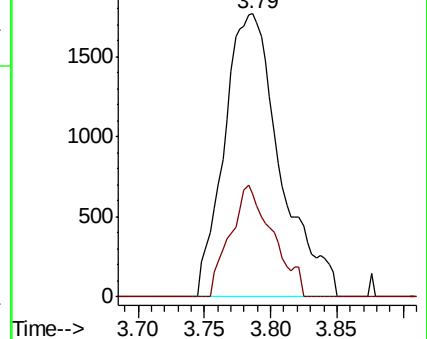
43 100

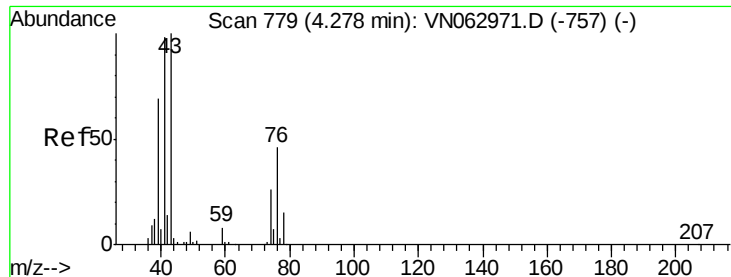
58 36.6 28.7 43.1



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

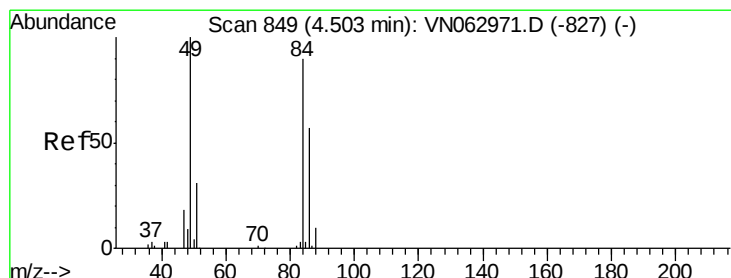
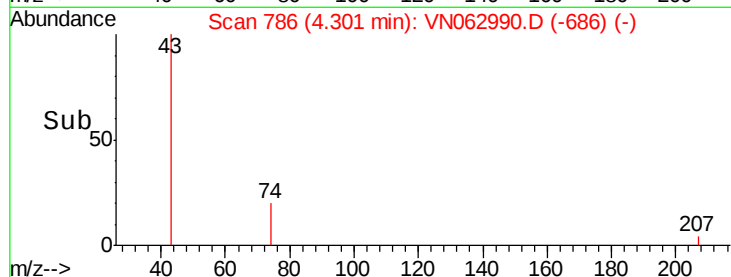
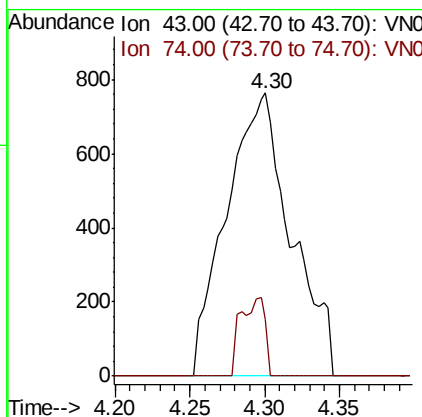
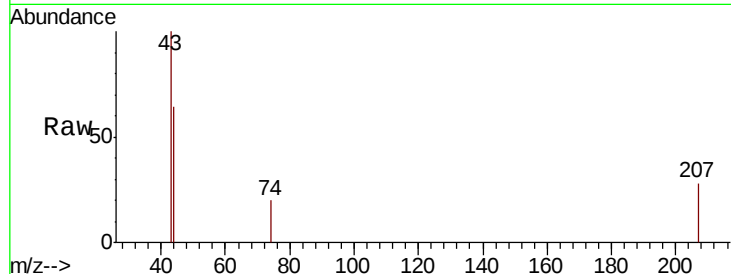




#18
Methyl Acetate
Concen: Below Cal
RT: 4.30 min Scan# 786
Delta R.T. 0.02 min
Lab File: VN062990.D
Acq: 17 Aug 2020 23:57

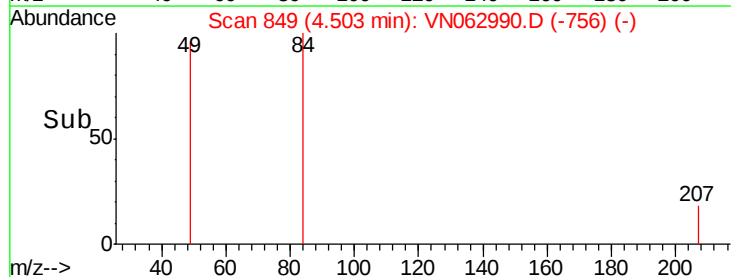
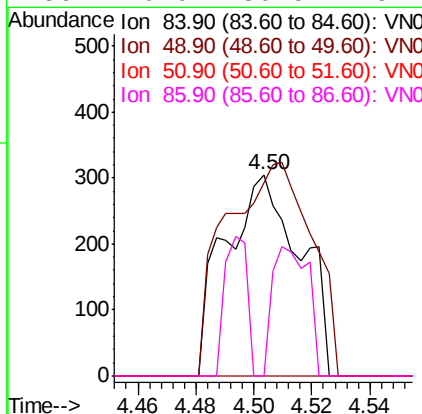
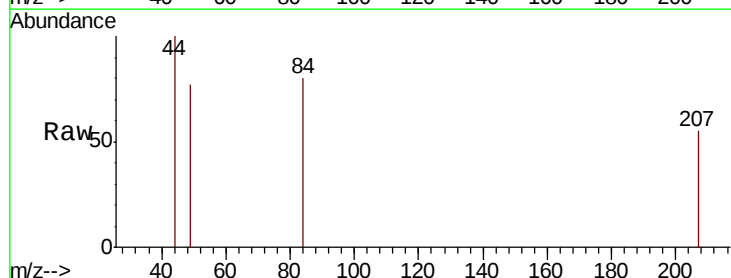
Instrument :
MSVOA_N
ClientSampled :
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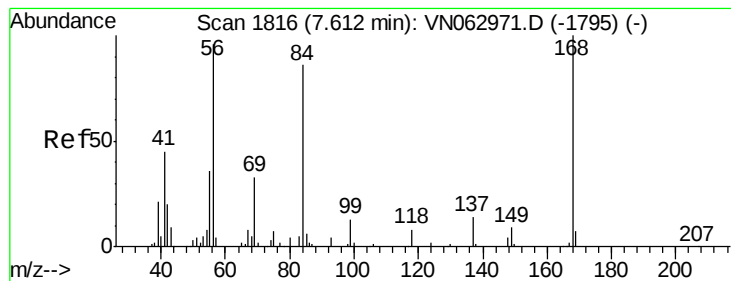
Tot Ion: 43 Resp: 2301
Ion Ratio Lower Upper
43 100
74 10.4 21.6 32.4#



#20
Methylene Chloride
Concen: 0.903 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062990.D
Acq: 17 Aug 2020 23:57

Tgt Ion: 84 Resp: 548
Ion Ratio Lower Upper
84 100
49 96.1 88.8 133.2
51 0.0 27.1 40.7#
86 0.0 50.5 75.7#





#31

Cyclohexane

Concen: 0.992 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062990.D

Acq: 17 Aug 2020 23:57

Instrument :

MSVOA_N

ClientSampled :

W-1

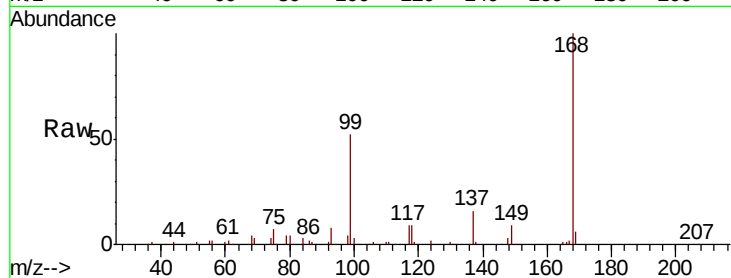
Tot Ion: 56 Resp: 3043

Ion Ratio Lower Upper

56 100

69 205.4 27.4 41.2#

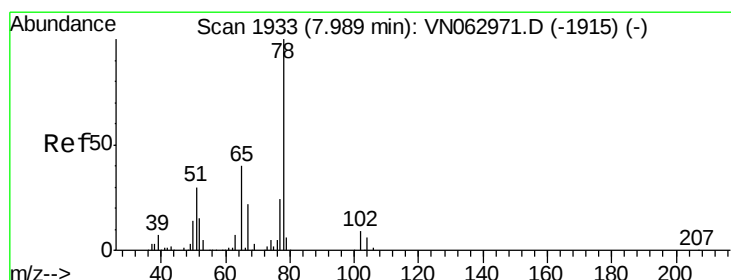
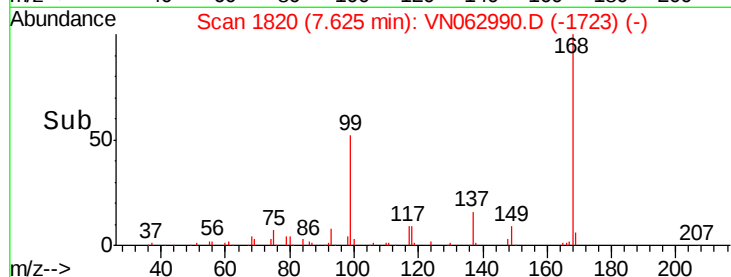
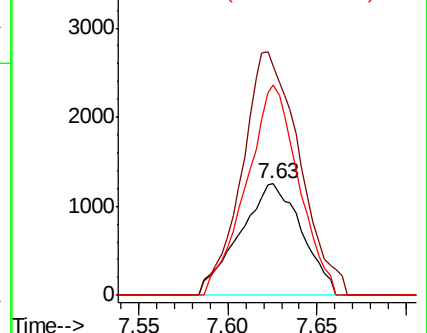
84 188.9 71.3 106.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 54.401 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062990.D

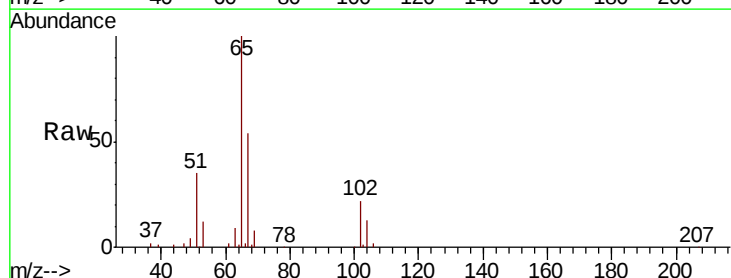
Acq: 17 Aug 2020 23:57

Tgt Ion: 65 Resp: 108181

Ion Ratio Lower Upper

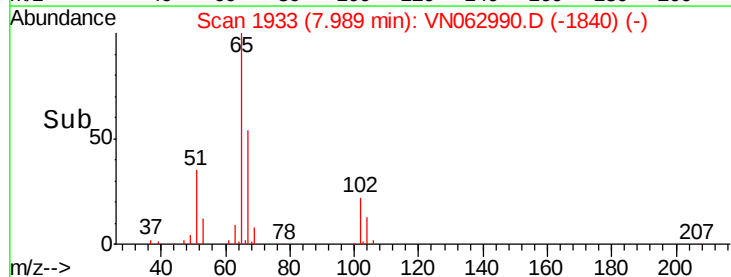
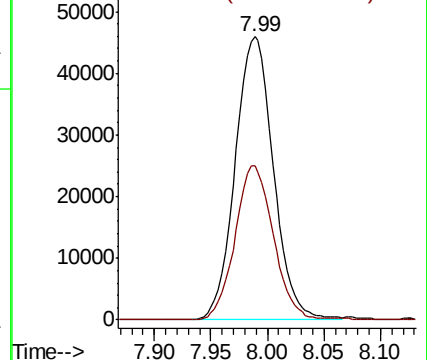
65 100

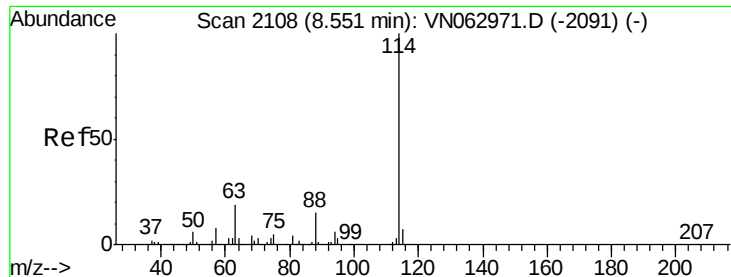
67 54.5 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

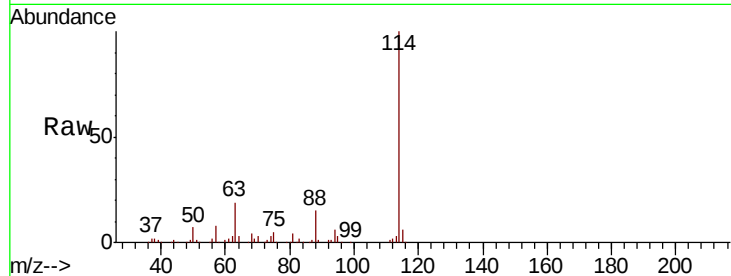




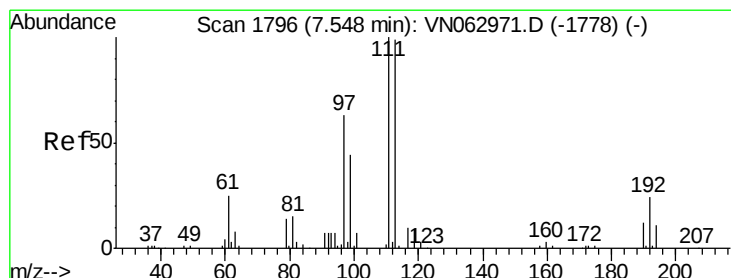
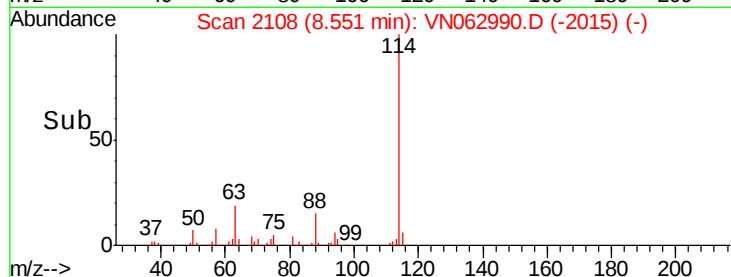
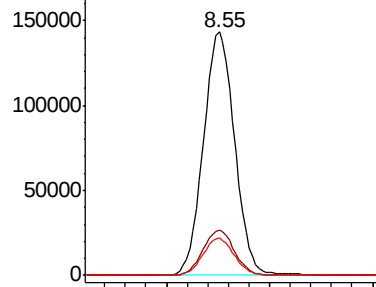
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062990.D
 Acq: 17 Aug 2020 23:57

Instrument :
 MSVOA_N
 ClientSampleId :
 W-1

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	37.6
88	15.3	0.0	31.0

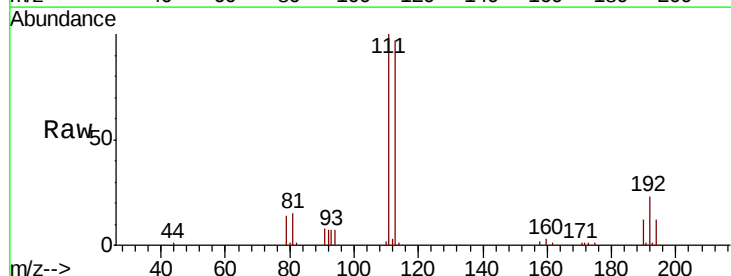


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

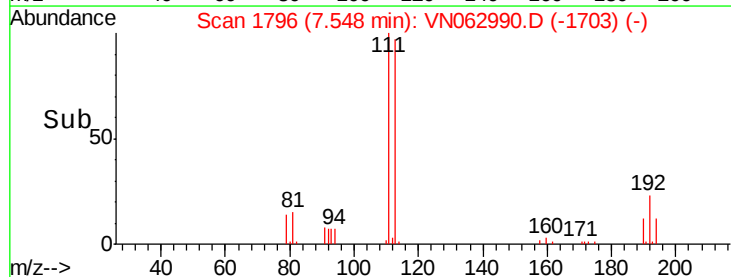
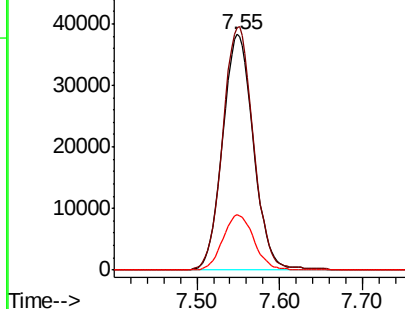


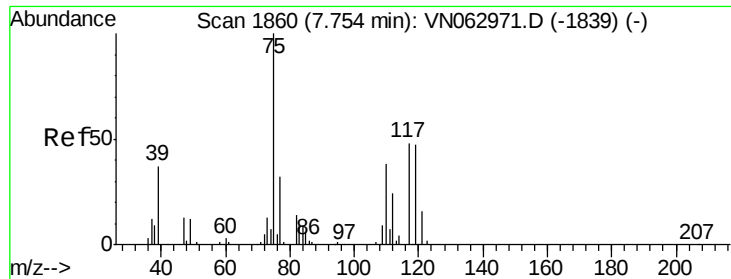
#35
 Dibromofluoromethane
 Concen: 50.125 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062990.D
 Acq: 17 Aug 2020 23:57

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.4	122.0
192	23.6	19.2	28.8



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

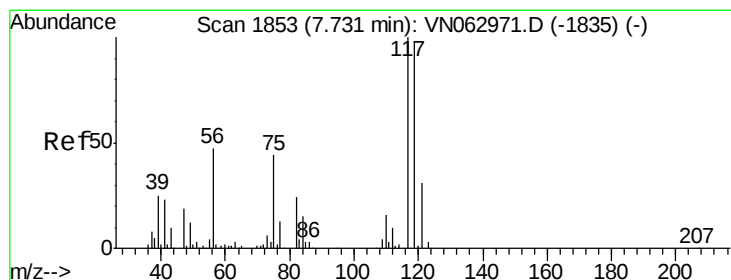
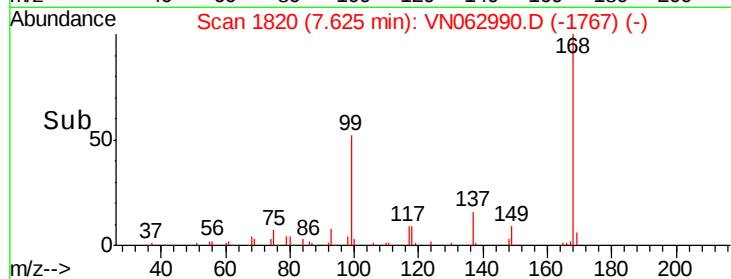
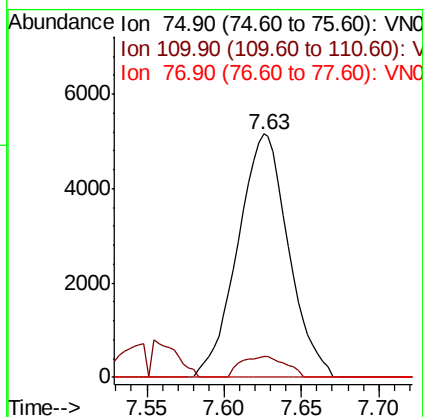
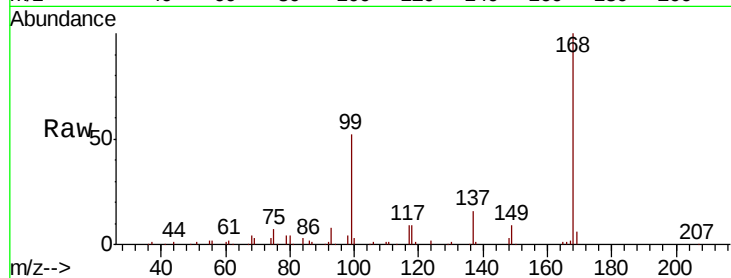




#36
 1,1-Dichloropropene
 Concen: 4.520 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062990.D
 Acq: 17 Aug 2020 23:57

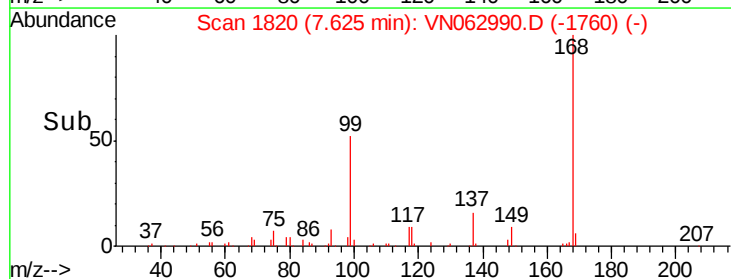
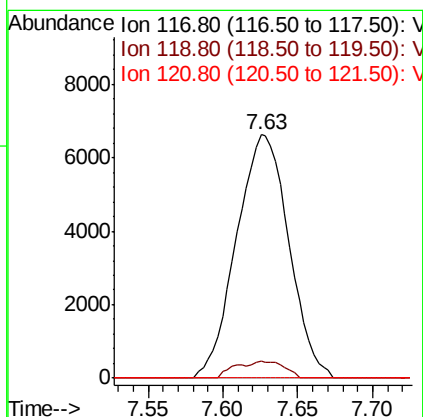
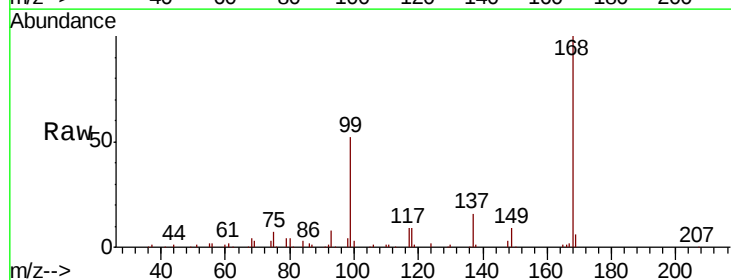
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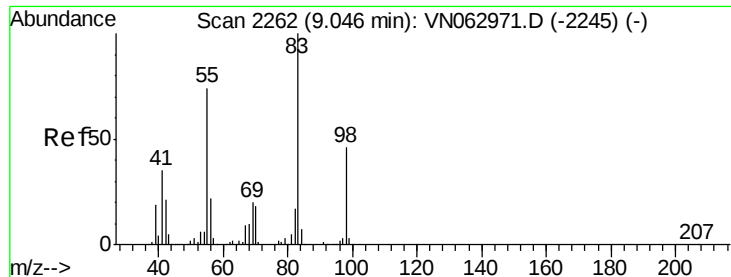
Tot Ion	75	110	77	Resp	11746	Lower	Upper
Ion	Ratio						
75	100						
110	7.6				18.7	56.1#	
77	0.0				25.6	38.4#	



#38
 Carbon Tetrachloride
 Concen: 5.869 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN062990.D
 Acq: 17 Aug 2020 23:57

Tgt Ion	117	119	121	Resp	16115	Lower	Upper
Ion	Ratio						
117	100						
119	6.8				77.9	116.9#	
121	0.0				24.8	37.2#	

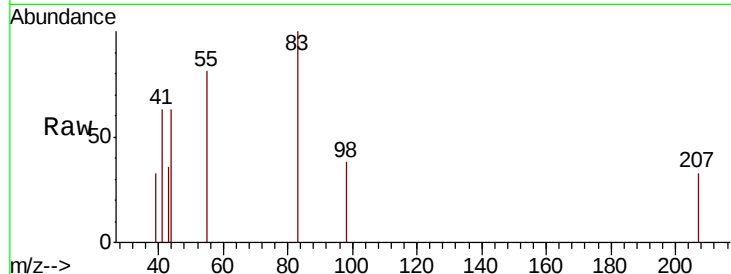




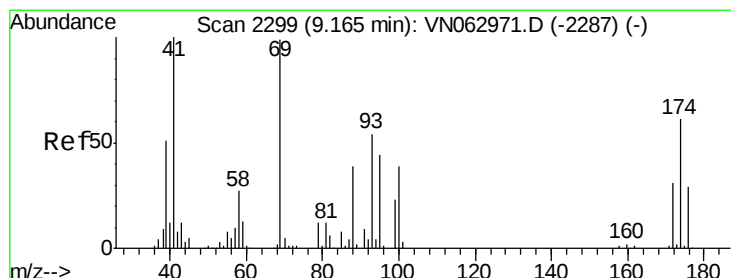
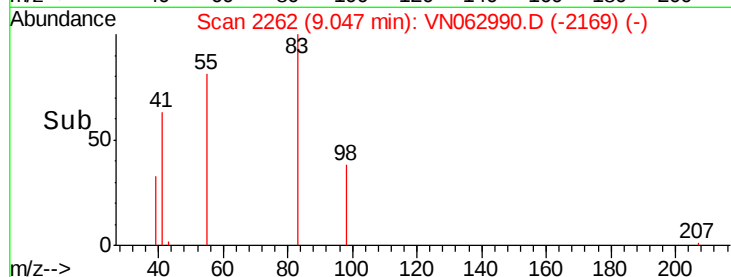
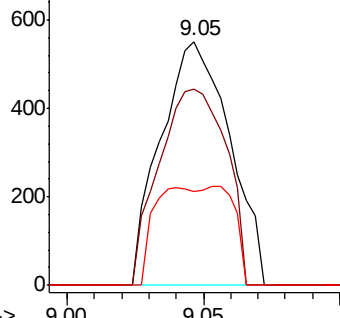
#39
Methylvlcvclohexane
Concen: 0.280 ug/l
RT: 9.05 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VN062990.D
Acq: 17 Aug 2020 23:57

Instrument :
MSVOA_N
ClientSampleId :
W-1

Tot Ion: 83 Resp: 966
Ion Ratio Lower Upper
83 100
55 80.6 59.0 88.6
98 38.5 36.8 55.2

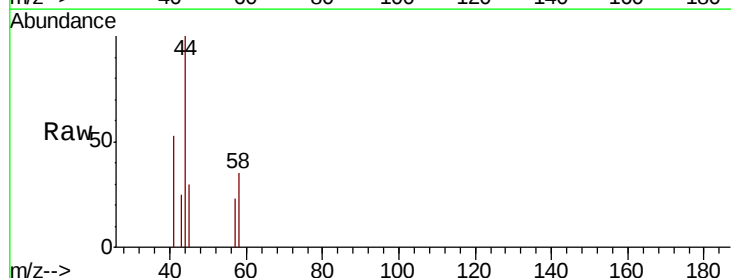


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

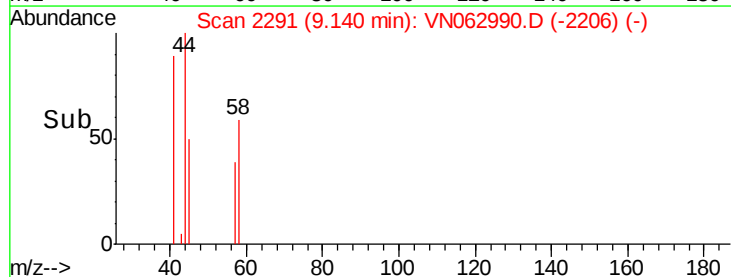
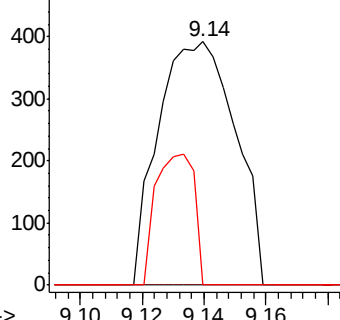


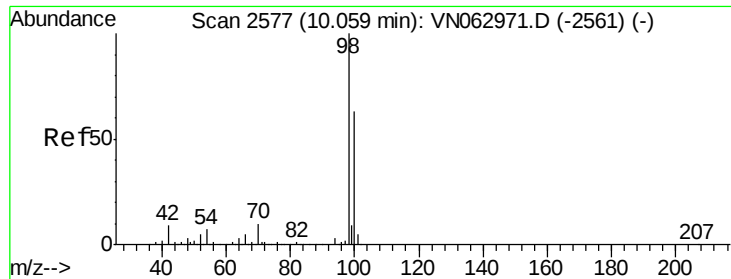
#48
Methyl methacrylate
Concen: 0.367 ug/l
RT: 9.14 min Scan# 2291
Delta R.T. -0.03 min
Lab File: VN062990.D
Acq: 17 Aug 2020 23:57

Tgt Ion: 41 Resp: 678
Ion Ratio Lower Upper
41 100
69 0.0 81.1 121.7#
39 27.0 42.4 63.6#



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

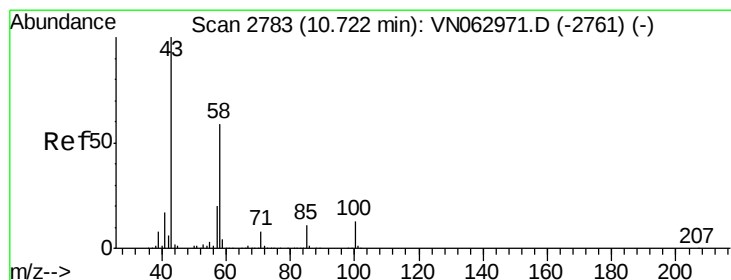
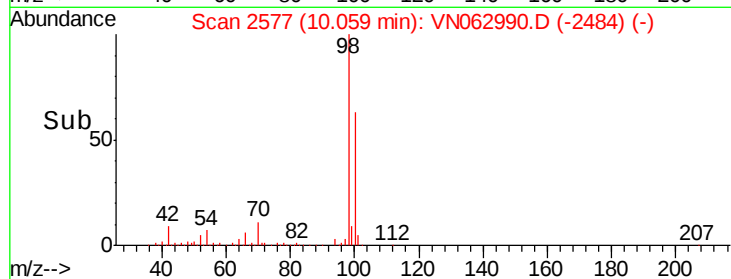
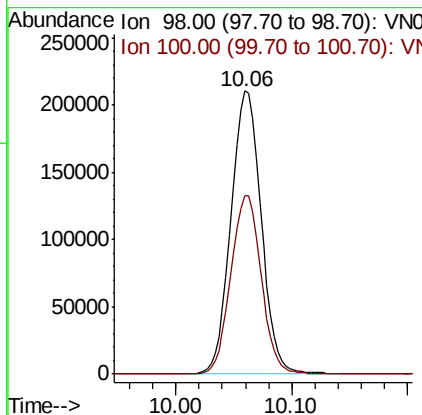
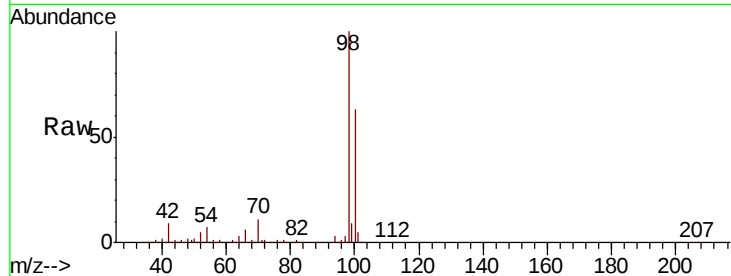




#50
Toluene-d8
Concen: 49.632 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062990.D
Acq: 17 Aug 2020 23:57

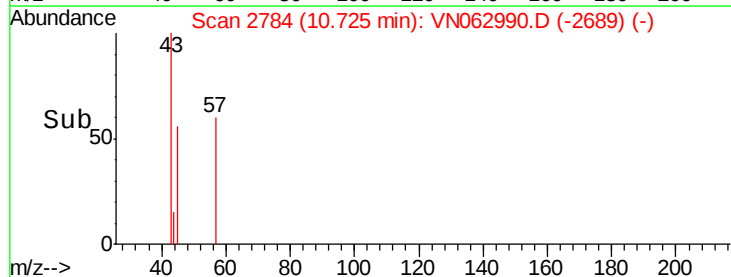
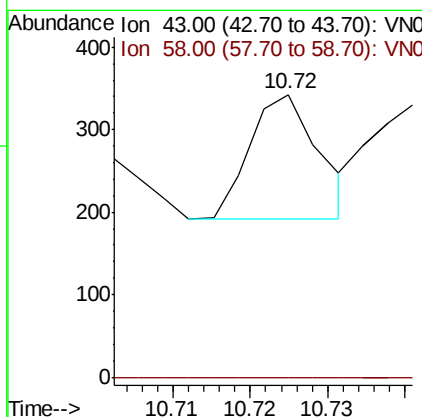
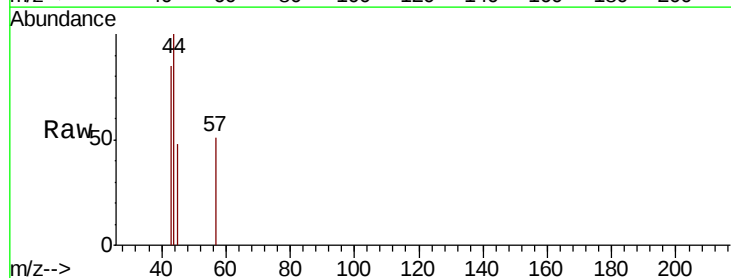
Instrument :
MSVOA_N
ClientSampleId :
W-1

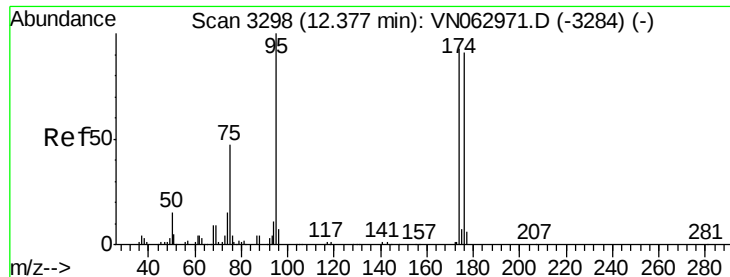
Tot Ion: 98 Resp: 380070
Ion Ratio Lower Upper
98 100
100 63.1 51.0 76.4



#59
2-Hexanone
Concen: Below Cal
RT: 10.72 min Scan# 2784
Delta R.T. 0.00 min
Lab File: VN062990.D
Acq: 17 Aug 2020 23:57

Tgt Ion: 43 Resp: 93
Ion Ratio Lower Upper
43 100
58 0.0 29.5 88.5#

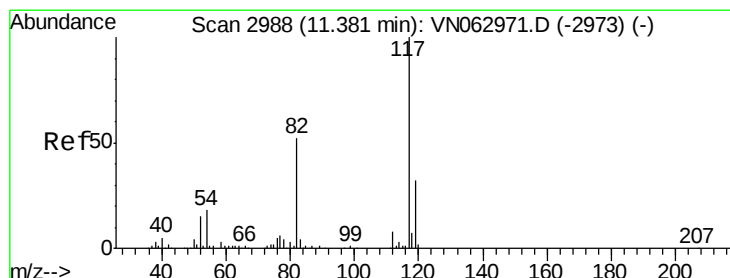
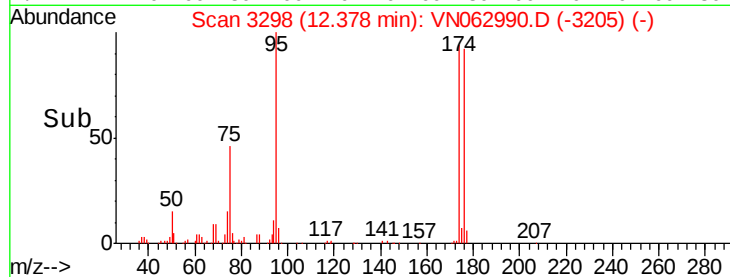
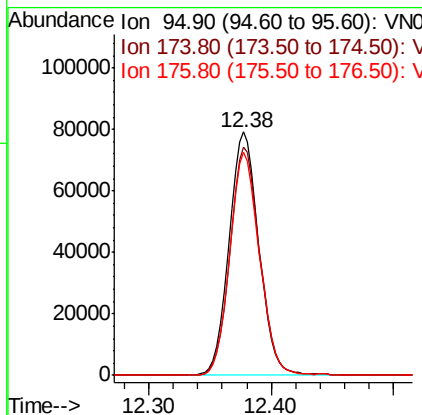
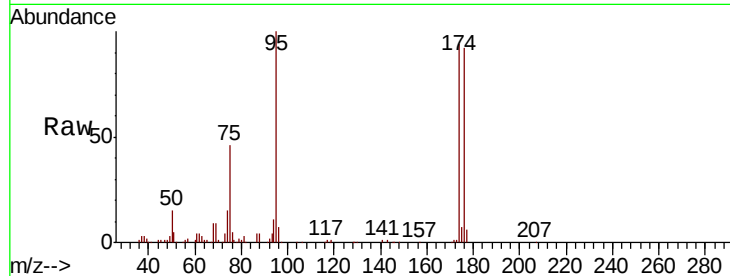




#62
4-Bromofluorobenzene
Concen: 48.999 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062990.D
Acq: 17 Aug 2020 23:57

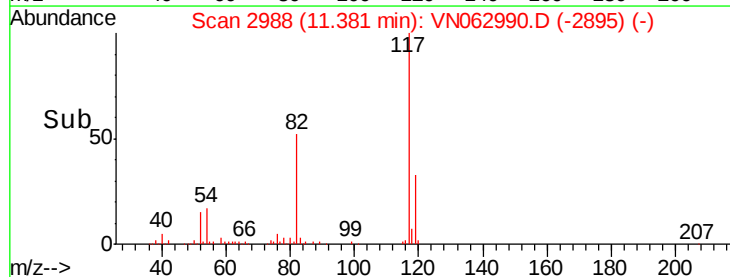
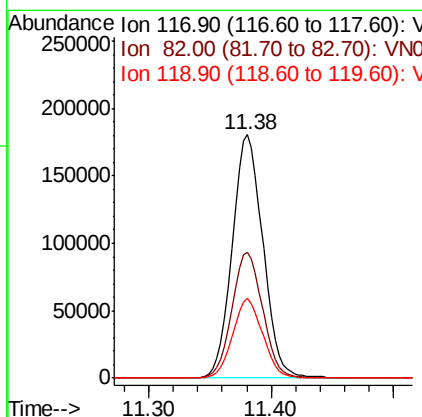
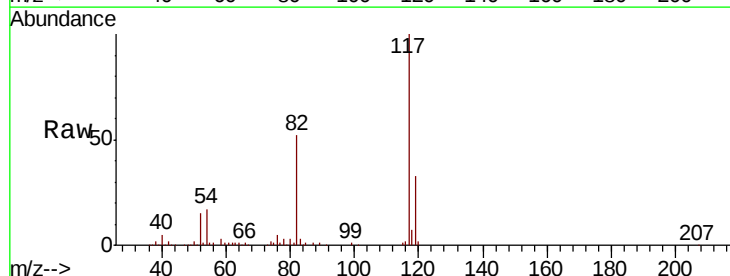
Instrument :
MSVOA_N
ClientSampled :
W-1

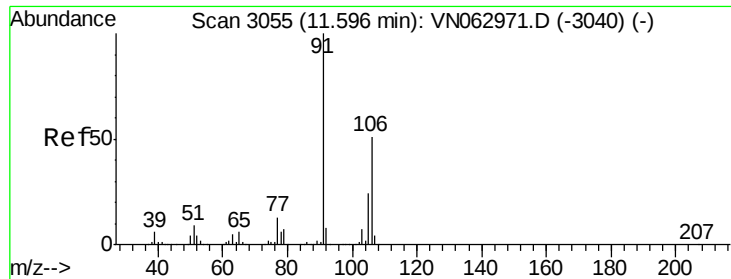
Tot Ion	95	Resp	134828
Ion Ratio	Lower	Upper	
95	100		
174	93.4	0.0	185.2
176	90.8	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062990.D
Acq: 17 Aug 2020 23:57

Tgt Ion	117	Resp	315590
Ion Ratio	Lower	Upper	
117	100		
82	51.9	41.3	61.9
119	32.6	25.8	38.8

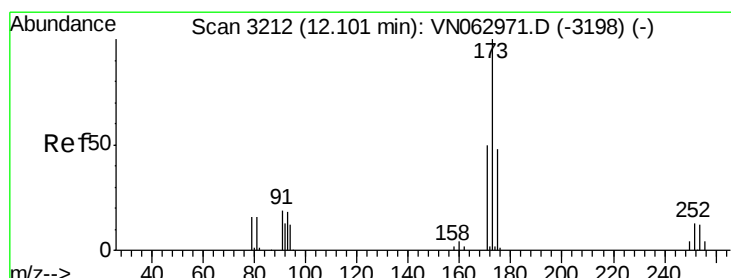
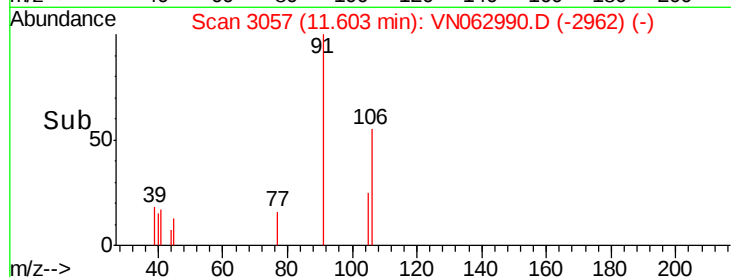
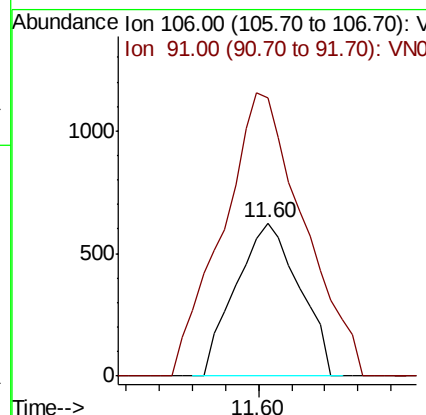
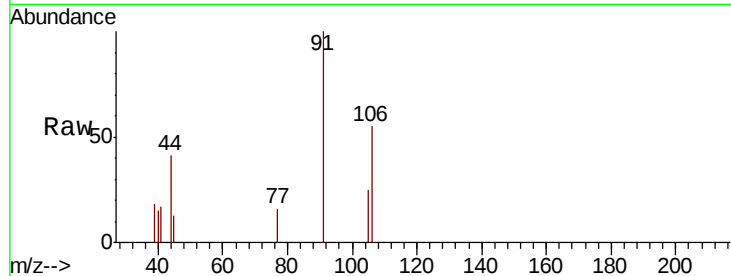




#68
m/p-Xvlenes
Concen: 0.203 ug/l
RT: 11.60 min Scan# 3057
Delta R.T. 0.01 min
Lab File: VN062990.D
Acq: 17 Aug 2020 23:57

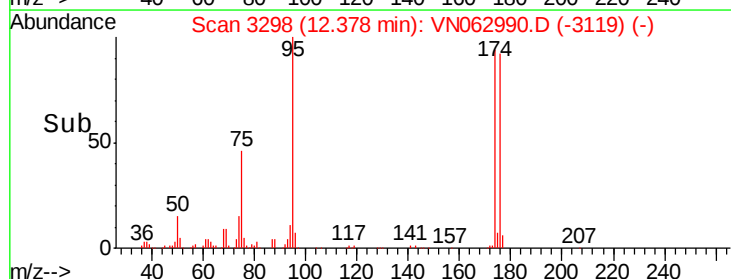
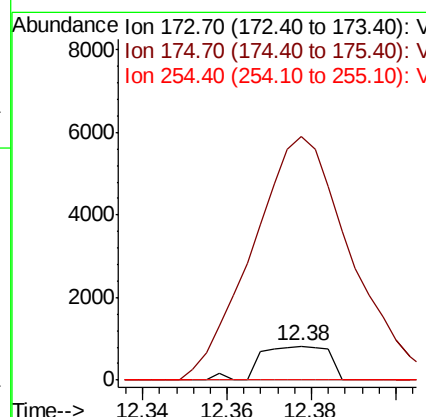
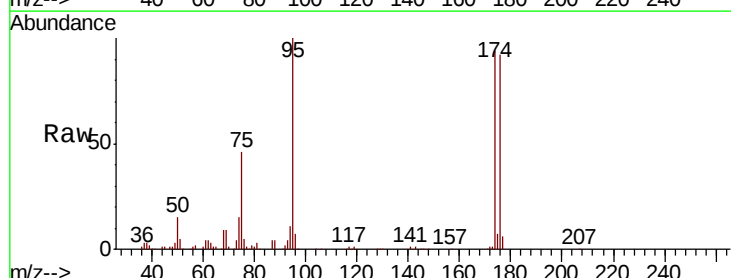
Instrument :
MSVOA_N
ClientSampled :
W-1

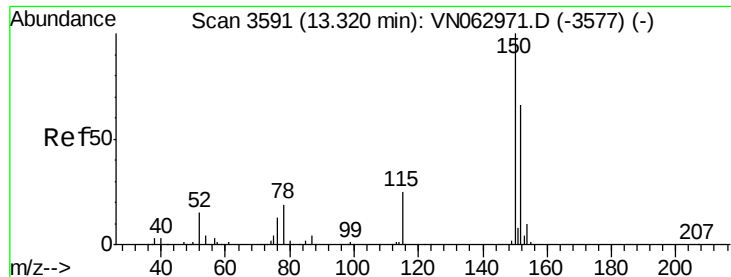
Tot Ion:106 Resp: 834
Ion Ratio Lower Upper
106 100
91 235.7 158.7 238.1



#71
Bromoform
Concen: 0.436 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062990.D
Acq: 17 Aug 2020 23:57

Tgt Ion:173 Resp: 915
Ion Ratio Lower Upper
173 100
175 864.8 24.1 72.2#
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: VN062990.D

Acq: 17 Aug 2020 23:57

Instrument :

MSVOA_N

ClientSampleId :

W-1

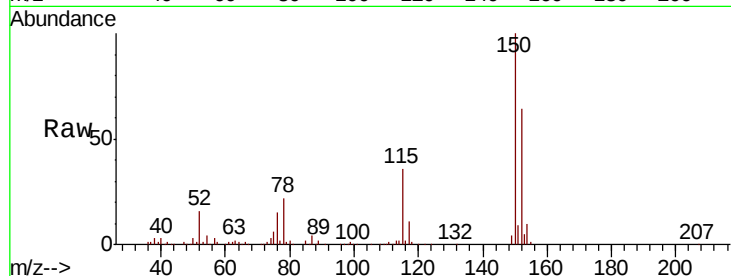
Tot Ion:152 Resp: 132982

Ion Ratio Lower Upper

152 100

115 56.5 27.1 81.3

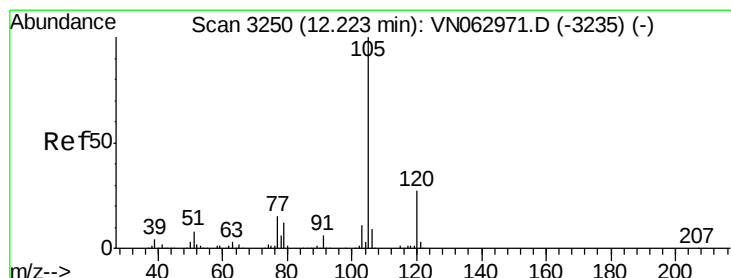
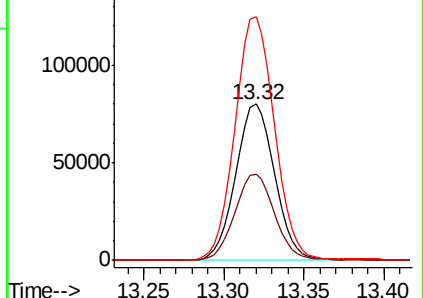
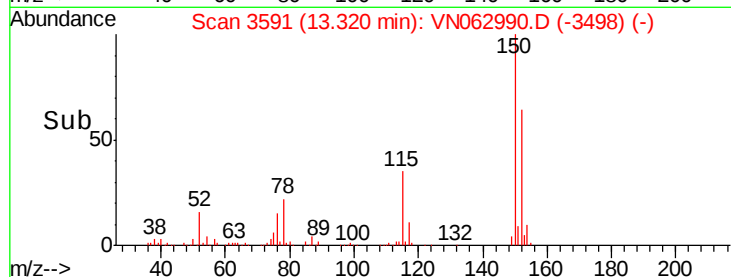
150 158.9 0.0 341.4



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



#73

Isopropylbenzene

Concen: 0.757 ug/l

RT: 12.23 min Scan# 3251

Delta R.T. 0.00 min

Lab File: VN062990.D

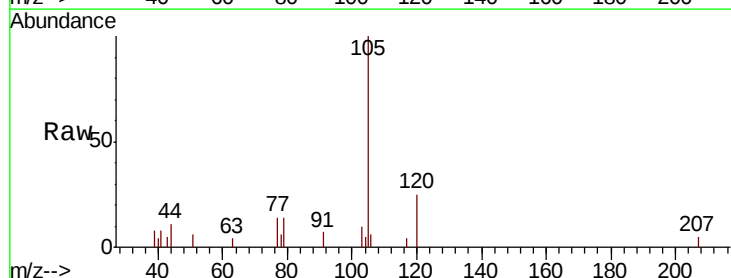
Acq: 17 Aug 2020 23:57

Tgt Ion:105 Resp: 6946

Ion Ratio Lower Upper

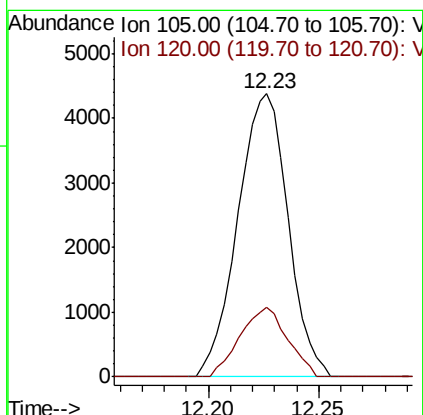
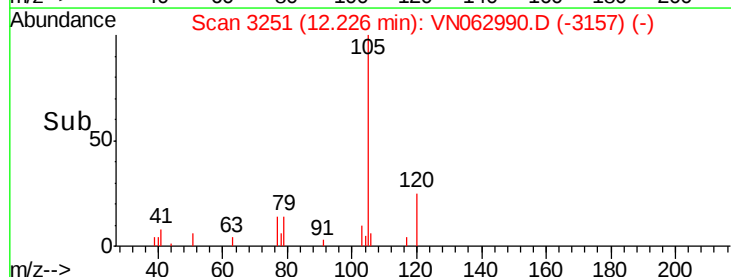
105 100

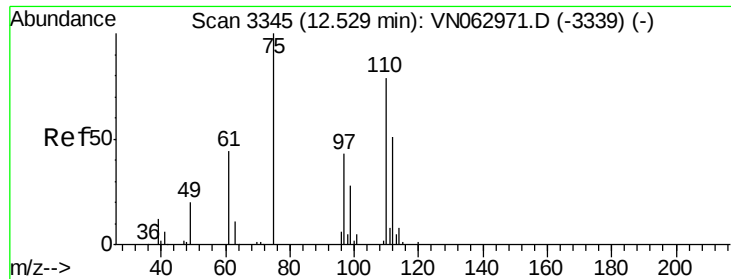
120 23.2 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

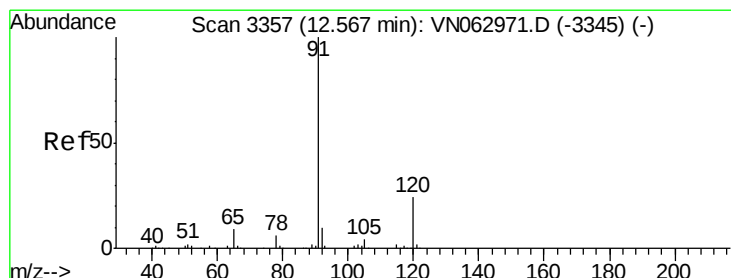
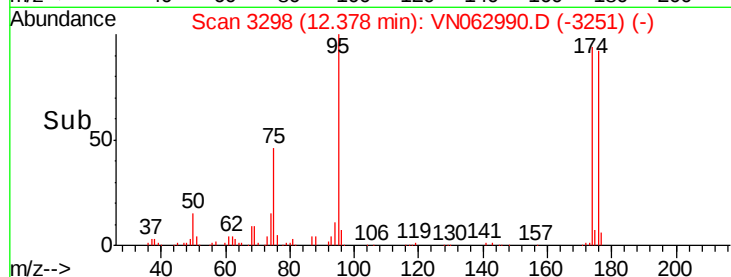
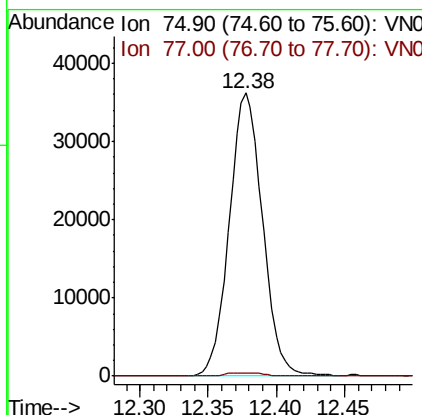
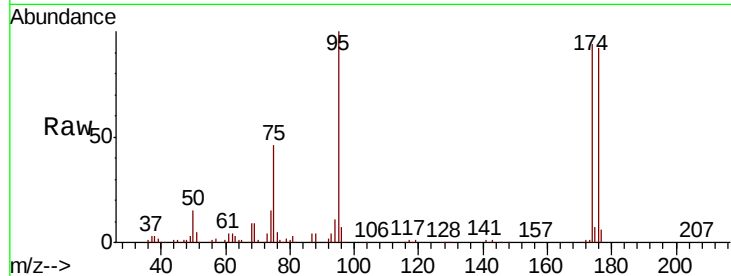




#76
 1,2,3-Trichloropropane
 Concen: 23.267 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062990.D
 Acq: 17 Aug 2020 23:57

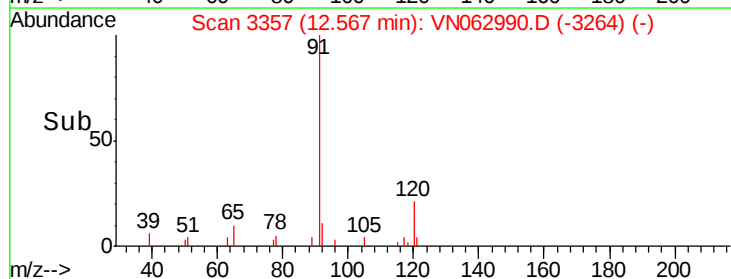
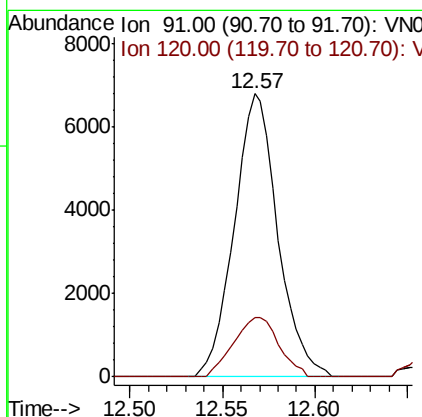
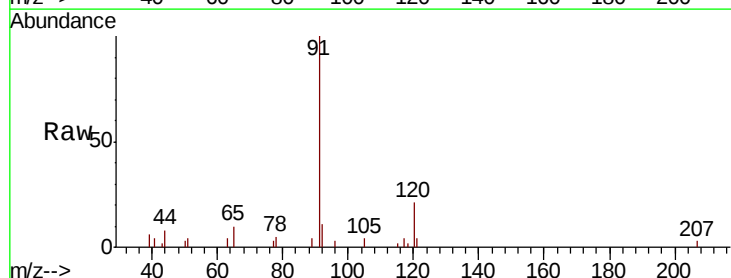
Instrument :
 MSVOA_N
 ClientSampled :
 W-1

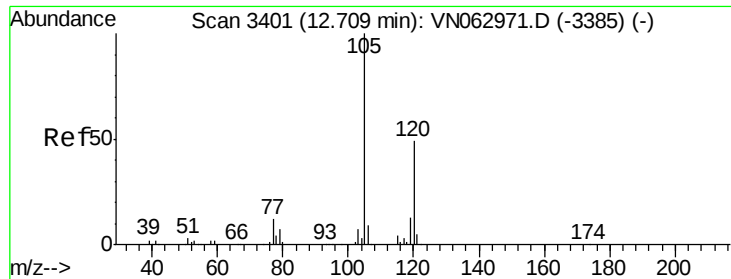
Tot Ion: 75 Resp: 61347
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#78
 n-propylbenzene
 Concen: 1.033 ug/l
 RT: 12.57 min Scan# 3357
 Delta R.T. 0.00 min
 Lab File: VN062990.D
 Acq: 17 Aug 2020 23:57

Tgt Ion: 91 Resp: 11060
 Ion Ratio Lower Upper
 91 100
 120 22.0 12.1 36.3

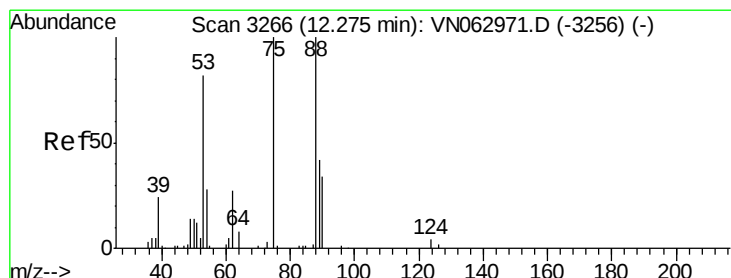
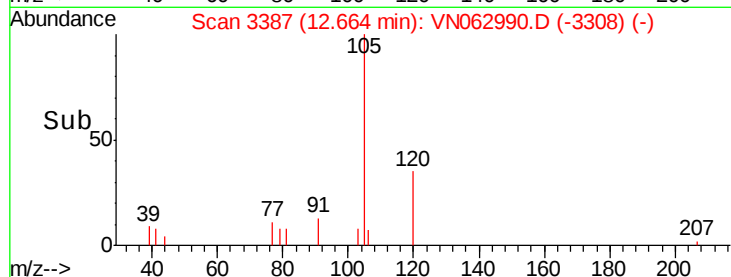
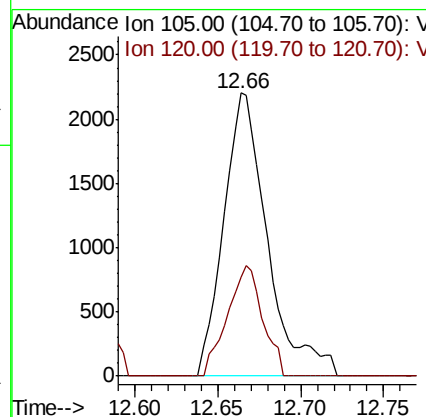
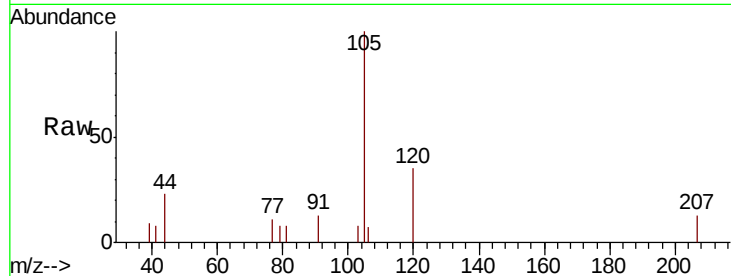




#80
 1,3,5-Trimethylbenzene
 Concen: 0.523 ug/l
 RT: 12.66 min Scan# 3387
 Delta R.T. -0.04 min
 Lab File: VN062990.D
 Acq: 17 Aug 2020 23:57

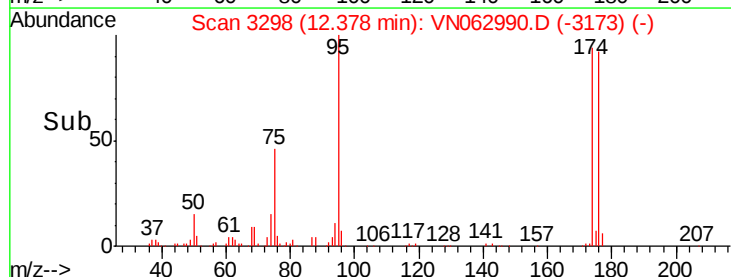
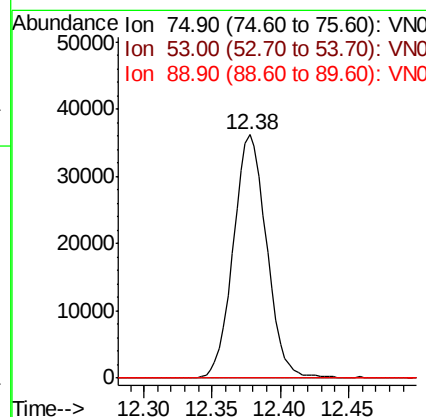
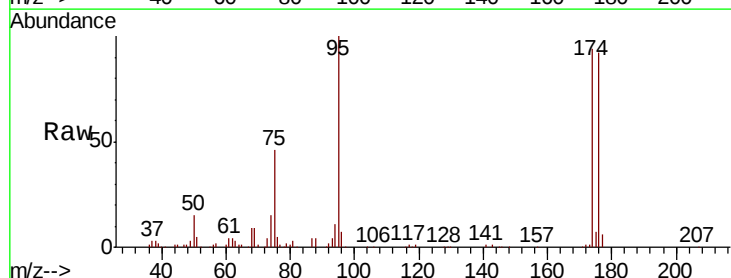
Instrument :
 MSVOA_N
 ClientSampleId :
 W-1

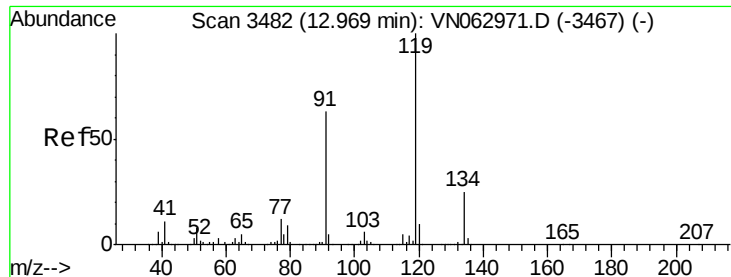
Tot Ion:105 Resp: 4039
 Ion Ratio Lower Upper
 105 100
 120 31.7 24.9 74.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.549 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062990.D
 Acq: 17 Aug 2020 23:57

Tgt Ion: 75 Resp: 61347
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.2 99.2#
 89 0.0 35.0 52.4#

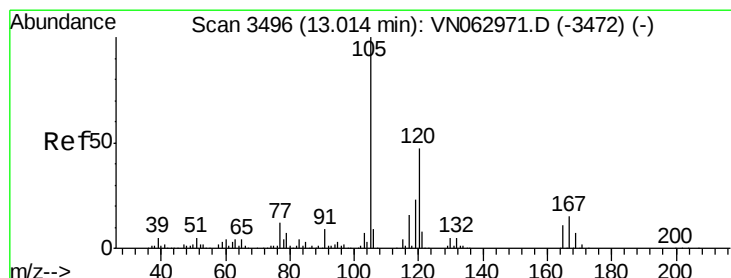
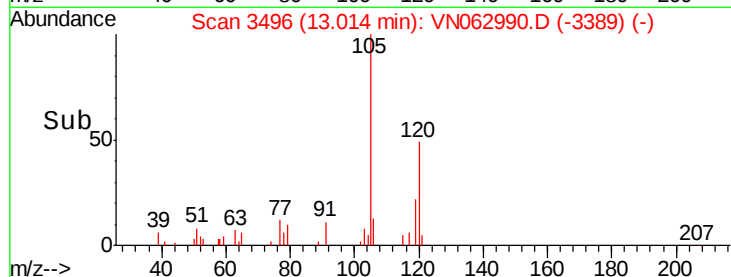
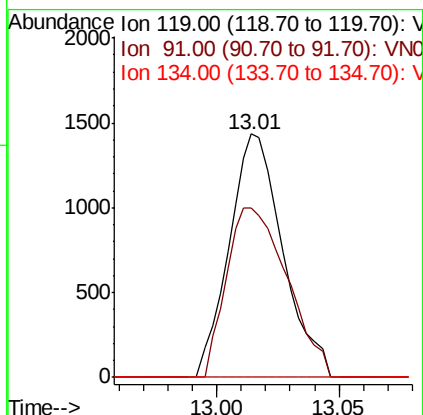
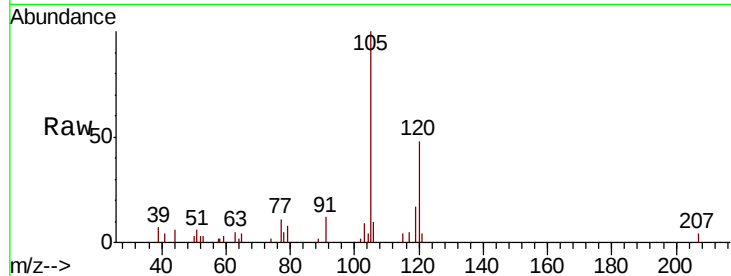




#83
tert-Butylbenzene
Concen: 0.328 ug/l
RT: 13.01 min Scan# 3496
Delta R.T. 0.05 min
Lab File: VN062990.D
Acq: 17 Aug 2020 23:57

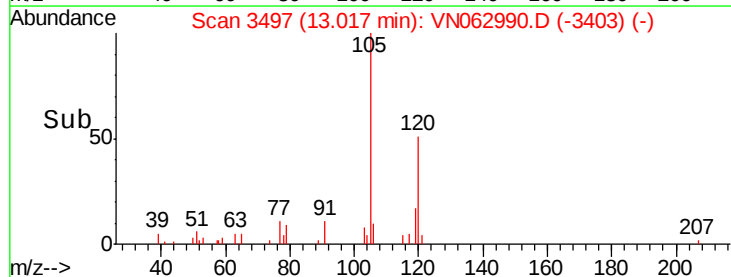
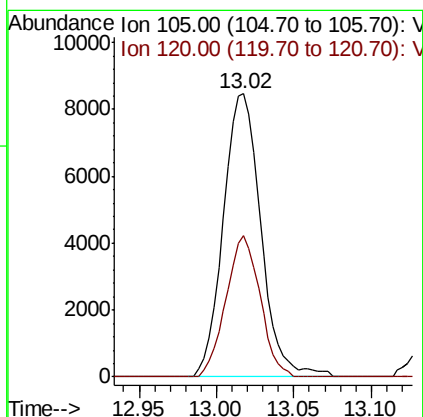
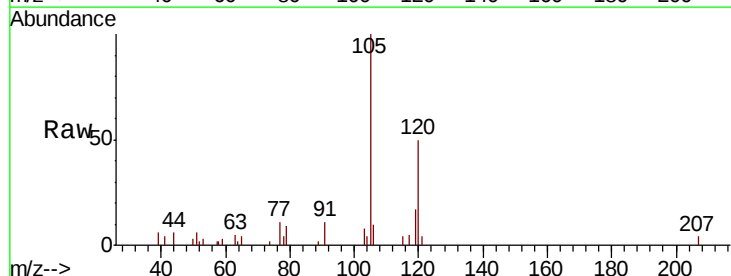
Instrument :
MSVOA_N
ClientSampled :
W-1

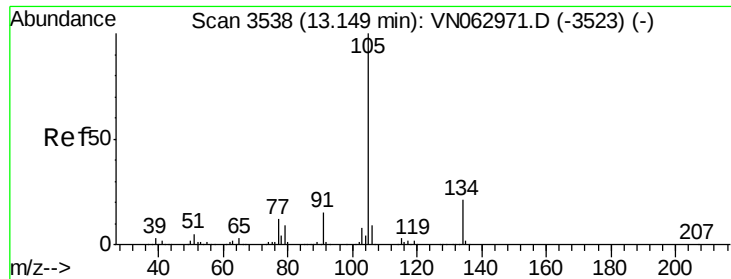
Tot Ion:119 Resp: 2182
Ion Ratio Lower Upper
119 100
91 79.1 31.0 93.0
134 0.0 13.3 39.8#



#84
1,2,4-Trimethylbenzene
Concen: 1.907 ug/l
RT: 13.02 min Scan# 3497
Delta R.T. 0.00 min
Lab File: VN062990.D
Acq: 17 Aug 2020 23:57

Tgt Ion:105 Resp: 14247
Ion Ratio Lower Upper
105 100
120 45.2 23.2 69.6

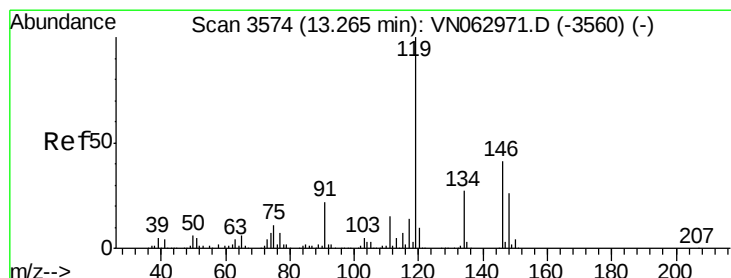
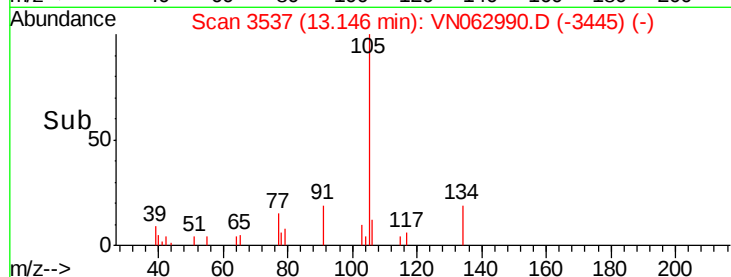
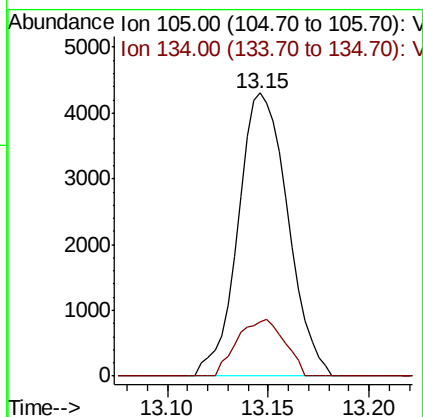
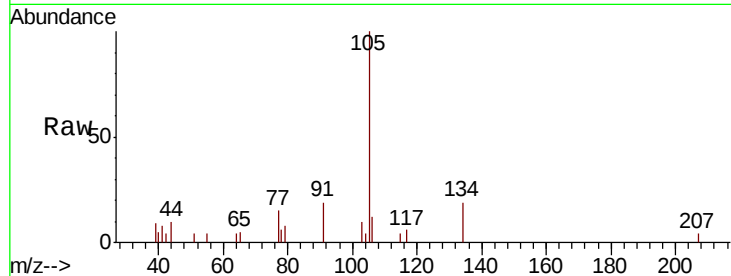




#85
 sec-Butylbenzene
 Concen: 0.846 ug/l
 RT: 13.15 min Scan# 3537
 Delta R.T. -0.00 min
 Lab File: VN062990.D
 Acq: 17 Aug 2020 23:57

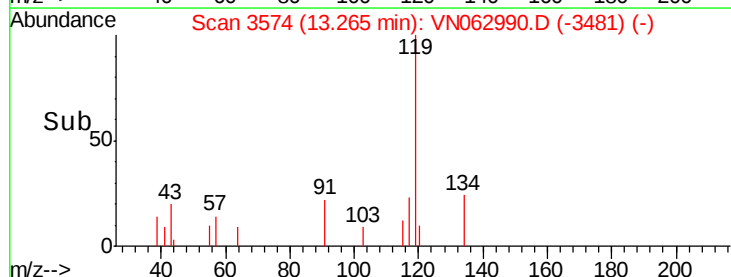
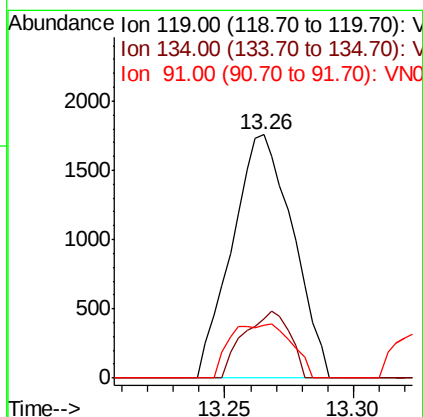
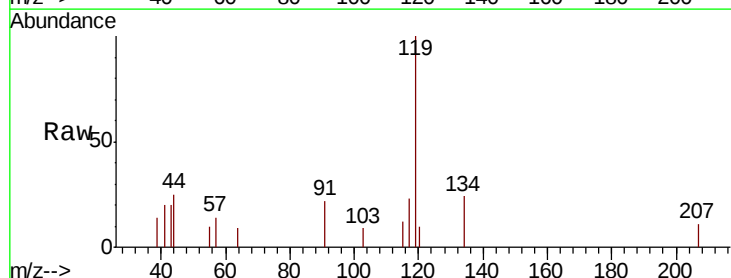
Instrument :
 MSVOA_N
 ClientSampleId :
 W-1

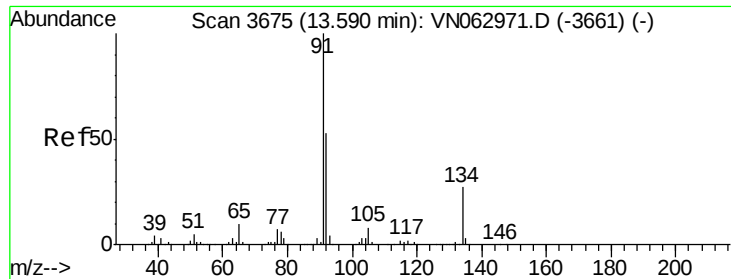
Tot Ion:105 Resp: 7413
 Ion Ratio Lower Upper
 105 100
 134 19.2 10.4 31.1



#86
 p-Isopropyltoluene
 Concen: 0.370 ug/l
 RT: 13.26 min Scan# 3574
 Delta R.T. 0.00 min
 Lab File: VN062990.D
 Acq: 17 Aug 2020 23:57

Tgt Ion:119 Resp: 2885
 Ion Ratio Lower Upper
 119 100
 134 20.9 13.6 40.7
 91 22.4 11.1 33.1





#89

n-Butylbenzene

Concen: 0.555 ug/l

RT: 13.59 min Scan# 3675

Delta R.T. 0.00 min

Lab File: VN062990.D

Acq: 17 Aug 2020 23:57

Instrument :

MSVOA_N

ClientSampled :

W-1

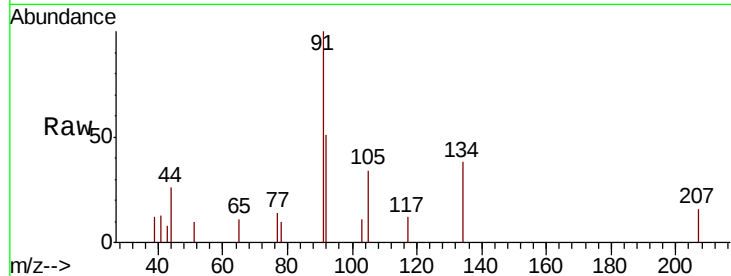
Tot Ion: 91 Resp: 3516

Ion Ratio Lower Upper

91 100

92 43.0 26.3 78.8

134 0.0 13.4 40.2#

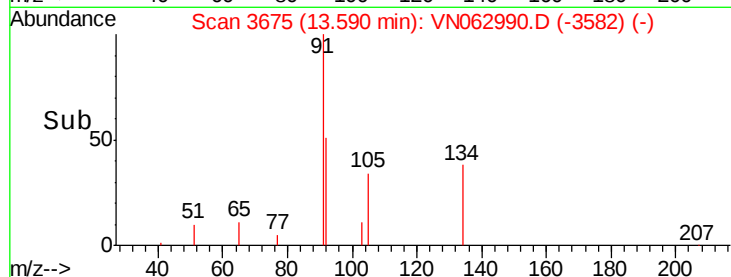


Abundance Ion 91.00 (90.70 to 91.70): VN062971.D (-3661) (-)

Ion 92.00 (91.70 to 92.70): VN062971.D (-3661) (-)

Ion 134.00 (133.70 to 134.70): VN062971.D (-3661) (-)

Time-->

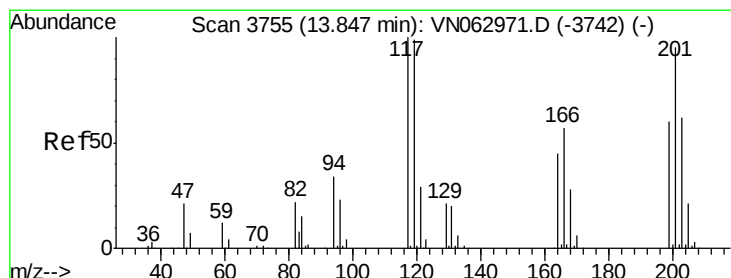


Abundance Ion 91.00 (90.70 to 91.70): VN062990.D (-3582) (-)

Ion 92.00 (91.70 to 92.70): VN062990.D (-3582) (-)

Ion 134.00 (133.70 to 134.70): VN062990.D (-3582) (-)

Time-->



#90

Hexachloroethane

Concen: 0.957 ug/l

RT: 13.87 min Scan# 3761

Delta R.T. 0.02 min

Lab File: VN062990.D

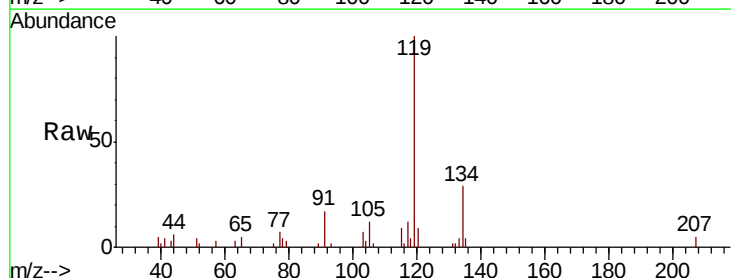
Acq: 17 Aug 2020 23:57

Tgt Ion: 117 Resp: 1514

Ion Ratio Lower Upper

117 100

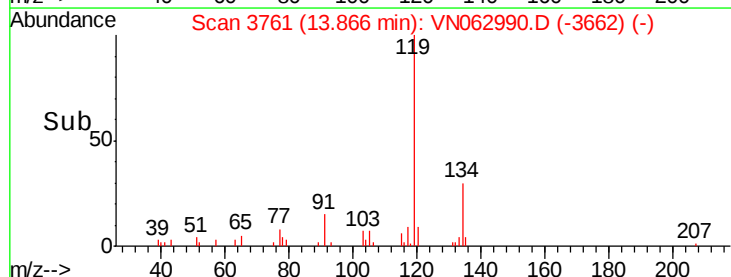
201 0.0 48.4 145.3#



Abundance Ion 116.80 (116.50 to 117.50): VN062971.D (-3742) (-)

Ion 200.70 (200.40 to 201.40): VN062971.D (-3742) (-)

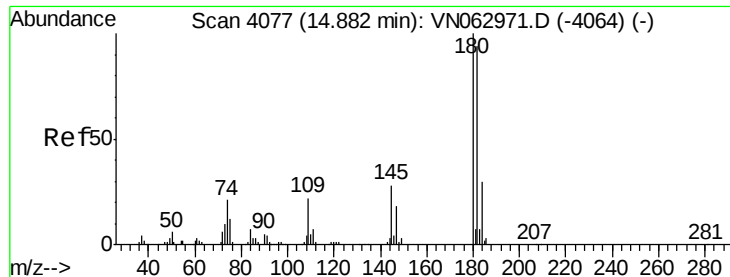
Time-->



Abundance Ion 116.80 (116.50 to 117.50): VN062990.D (-3662) (-)

Ion 200.70 (200.40 to 201.40): VN062990.D (-3662) (-)

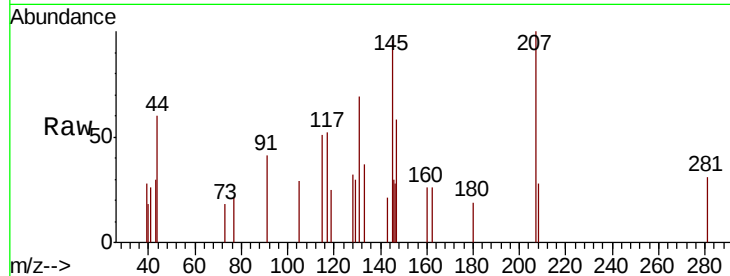
Time-->



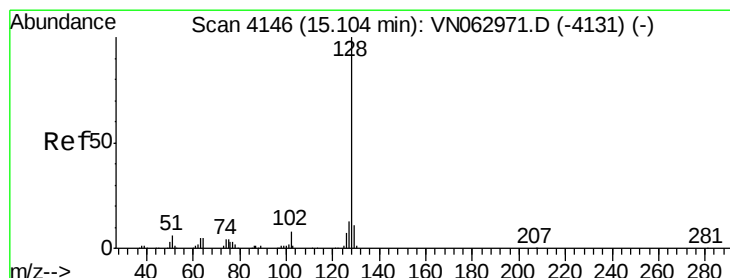
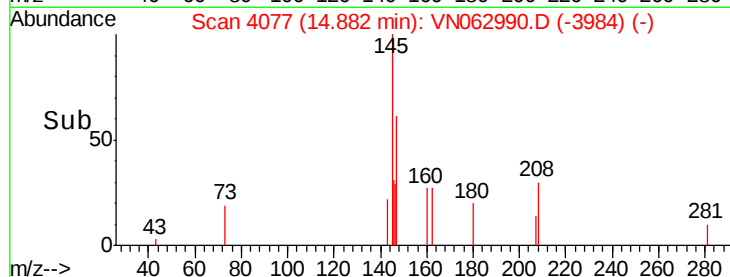
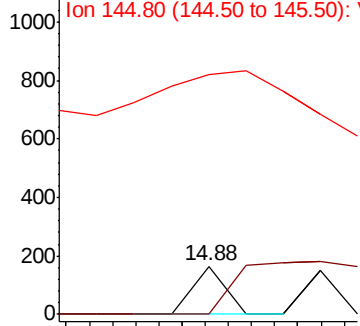
#93
 1,2,4-Trichlorobenzene
 Concen: 4.296 ug/l
 RT: 14.88 min Scan# 4077
 Delta R.T. 0.00 min
 Lab File: VN062990.D
 Acq: 17 Aug 2020 23:57

Instrument :
 MSVOA_N
 ClientSampled :
 W-1

Tot Ion:180 Resp: 32
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.8 143.3#
 145 0.0 13.9 41.7#

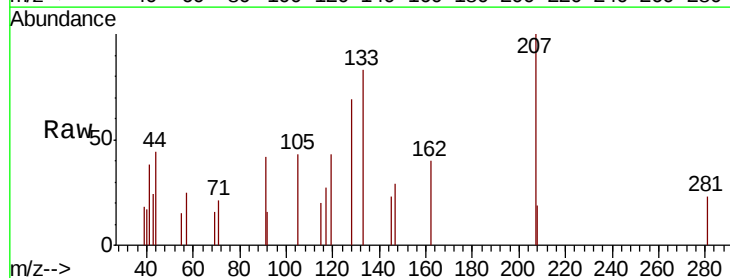


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: Below Cal
 RT: 15.10 min Scan# 4145
 Delta R.T. -0.00 min
 Lab File: VN062990.D
 Acq: 17 Aug 2020 23:57

Tgt Ion:128 Resp: 957
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 15.8#
 129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

