

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071919\
 Data File : VN056836.D
 Acq On : 19 Jul 2019 16:50
 Operator : JC/SP
 Sample : K3615-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HR-06-071719-C

Quant Time: Jul 19 23:16:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	249056	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	450354	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	489998	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	177231	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	145609	52.85	ug/l	0.00
Spiked Amount			Recovery	=	105.70%	
35) Dibromofluoromethane	7.59	113	132800	47.38	ug/l	0.00
Spiked Amount			Recovery	=	94.76%	
50) Toluene-d8	10.09	98	571681	52.81	ug/l	0.00
Spiked Amount			Recovery	=	105.62%	
62) 4-Bromofluorobenzene	12.40	95	210483	57.66	ug/l	0.00
Spiked Amount			Recovery	=	115.32%	

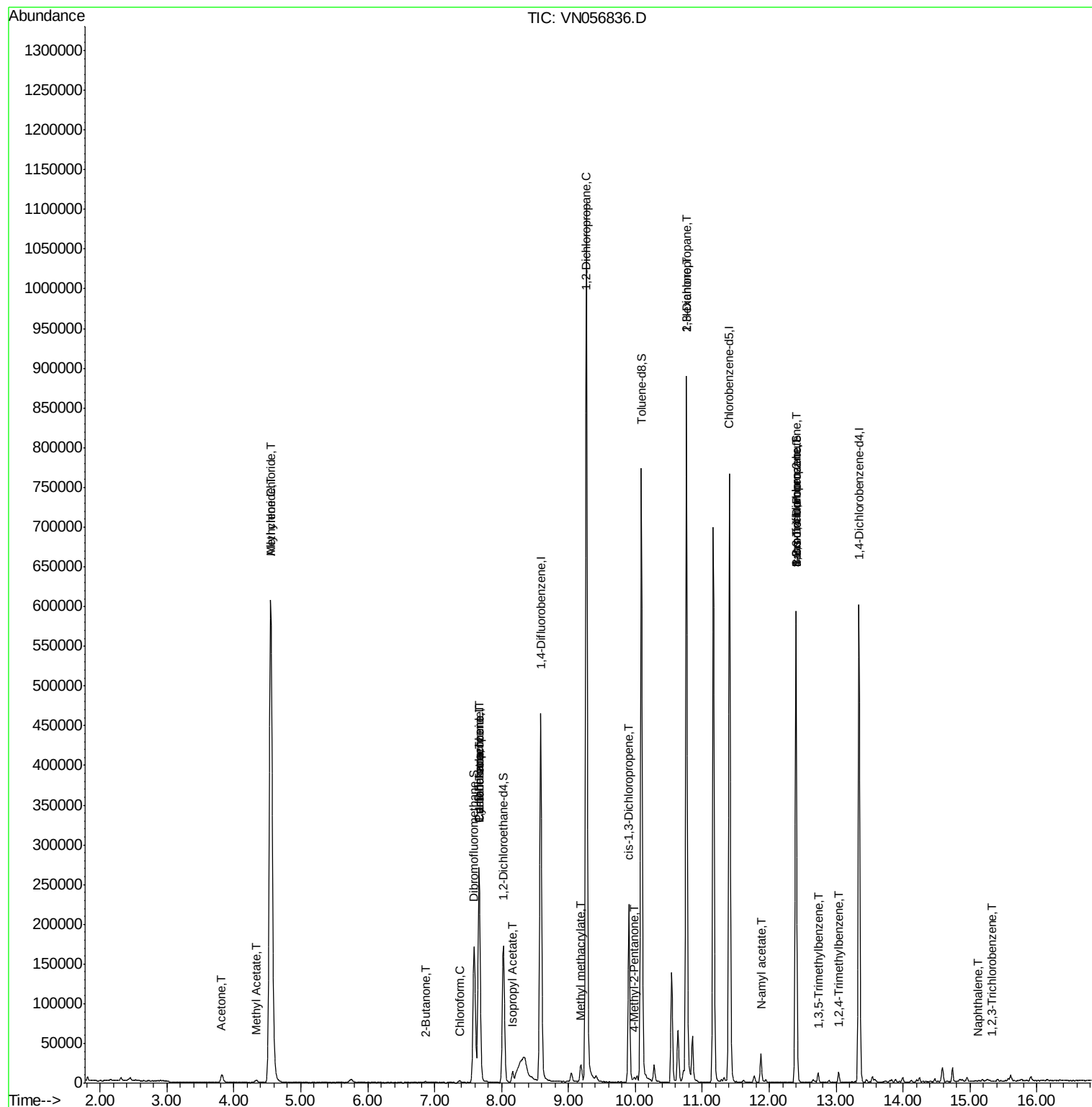
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.54	41	19091	4.715	ug/l #	29
16) Acetone	3.82	43	17427	13.727	ug/l	97
18) Methyl Acetate	4.33	43	6019	1.160	ug/l #	90
20) Methylene Chloride	4.55	84	499121	179.907	ug/l	98
25) 2-Butanone	6.86	43	3036	1.636	ug/l	97
30) Chloroform	7.37	83	2827	0.610	ug/l	91
31) Cyclohexane	7.66	56	3544	0.805	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	16394	3.934	ug/l #	43
38) Carbon Tetrachloride	7.66	117	20959	5.363	ug/l #	16
43) Isopropyl Acetate	8.17	43	15602	2.416	ug/l #	91
45) 1,2-Dichloropropane	9.27	63	1299	0.383	ug/l #	45
48) Methyl methacrylate	9.18	41	8495	2.720	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	4137	0.989	ug/l	94
54) cis-1,3-Dichloropropene	9.90	75	42994	8.888	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	9591	1.846	ug/l #	42
59) 2-Hexanone	10.76	43	127453	42.472	ug/l #	50
71) Bromoform	12.40	173	1672	0.596	ug/l #	1
74) N-amyl acetate	11.88	43	11038	2.074	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	94367	24.345	ug/l #	100
79) 2-Chlorotoluene	12.66	91	481	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	6643	0.548	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	94367	75.184	ug/l #	13
83) tert-Butylbenzene	13.04	119	936	Below Cal	#	58
84) 1,2,4-Trimethylbenzene	13.04	105	8892	0.752	ug/l	99
95) Naphthalene	15.13	128	2026	4.720	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.32	180	34	3.332	ug/l #	1

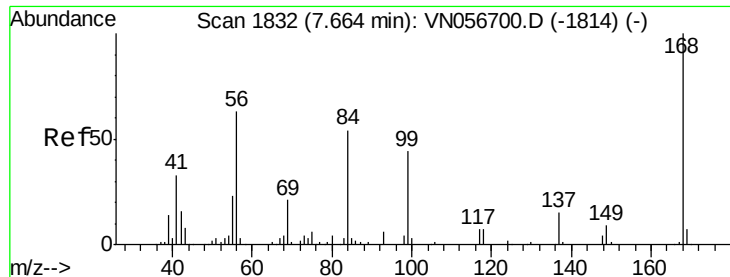
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056836.D

Acq: 19 Jul 2019 16:50

Instrument :

MSVOA_N

ClientSampleId :

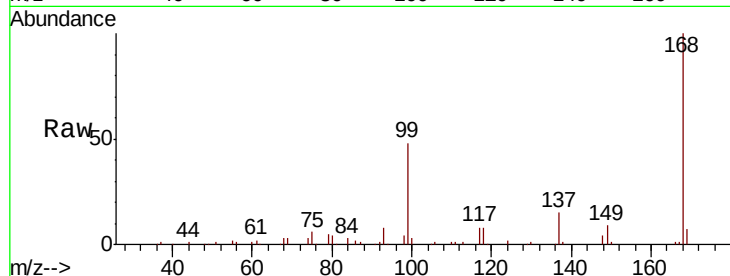
HR-06-071719-C

Tot Ion:168 Resp: 249056

Ion Ratio Lower Upper

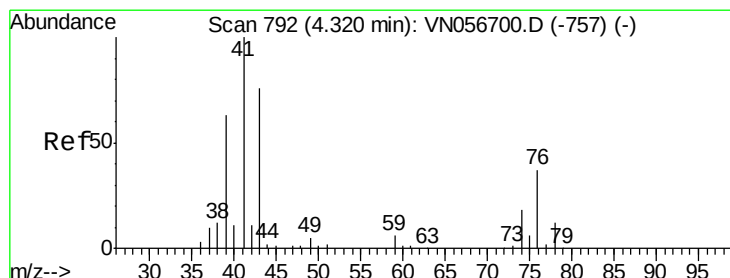
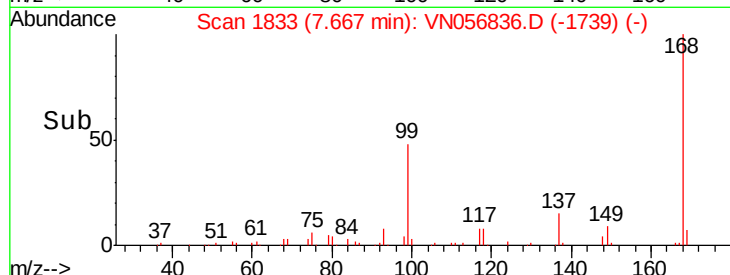
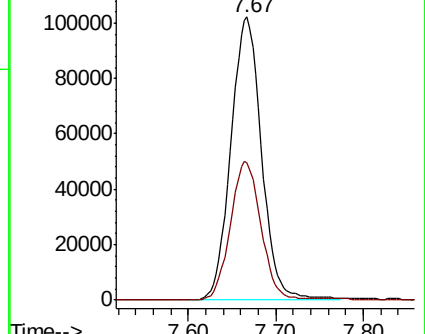
168 100

99 48.5 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#14

Allyl chloride

Concen: 4.715 ug/l

RT: 4.54 min Scan# 862

Delta R.T. 0.23 min

Lab File: VN056836.D

Acq: 19 Jul 2019 16:50

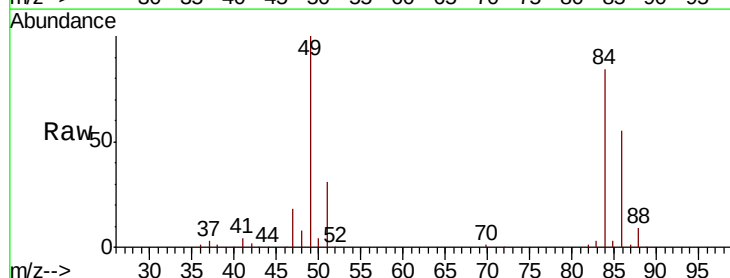
Tgt Ion: 41 Resp: 19091

Ion Ratio Lower Upper

41 100

39 0.0 46.9 70.3#

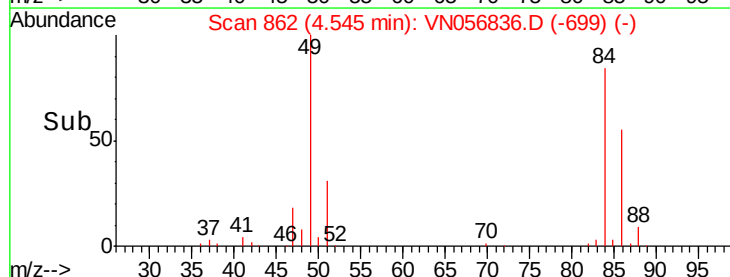
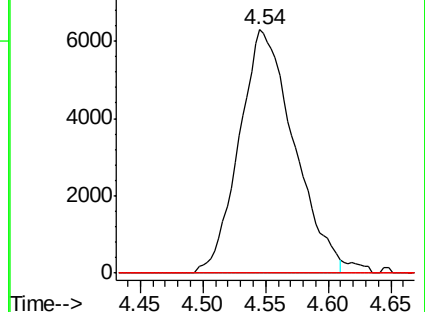
76 0.0 26.5 39.7#

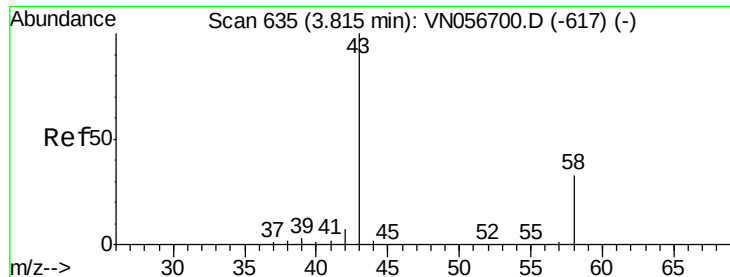


Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN





#16

Acetone

Concen: 13.727 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN056836.D

Acq: 19 Jul 2019 16:50

Instrument :

MSVOA_N

ClientSampleId :

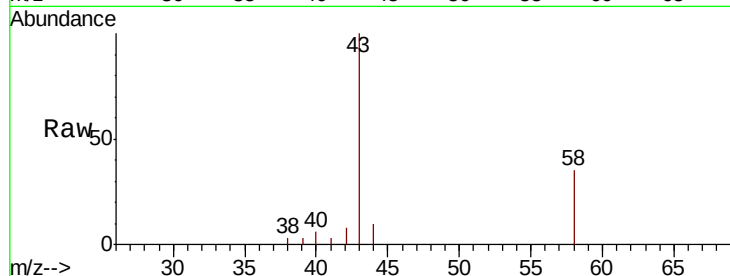
HR-06-071719-C

Tot Ion: 43 Resp: 17427

Ion Ratio Lower Upper

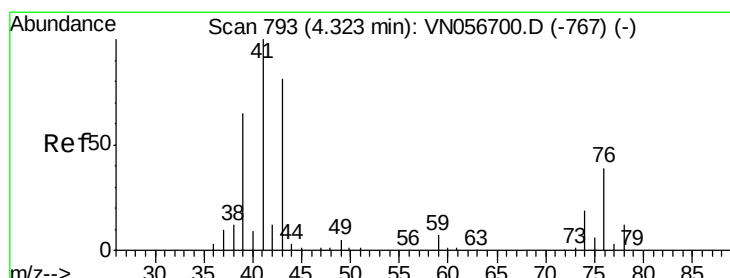
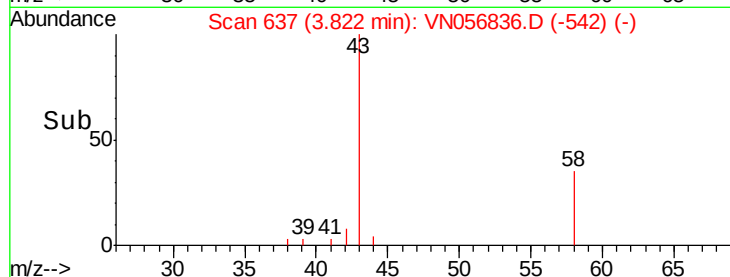
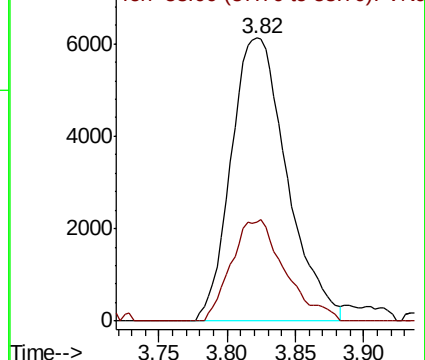
43 100

58 35.0 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.160 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN056836.D

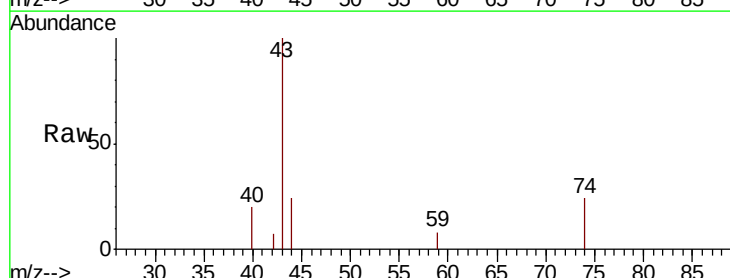
Acq: 19 Jul 2019 16:50

Tgt Ion: 43 Resp: 6019

Ion Ratio Lower Upper

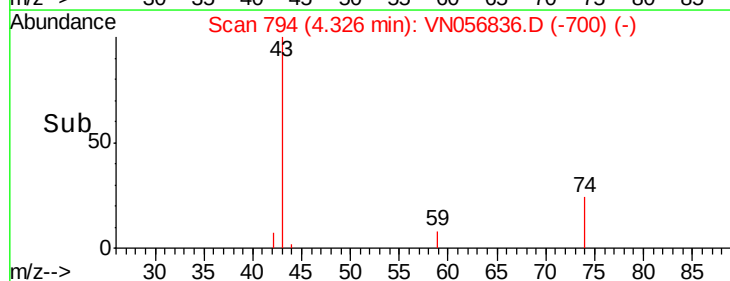
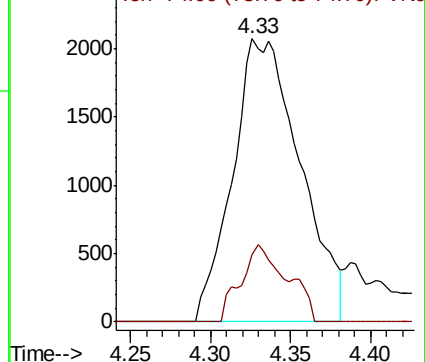
43 100

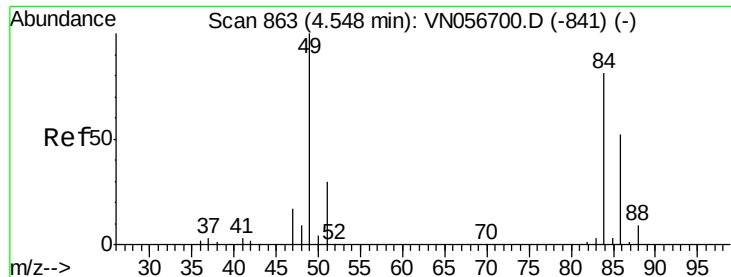
74 18.6 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

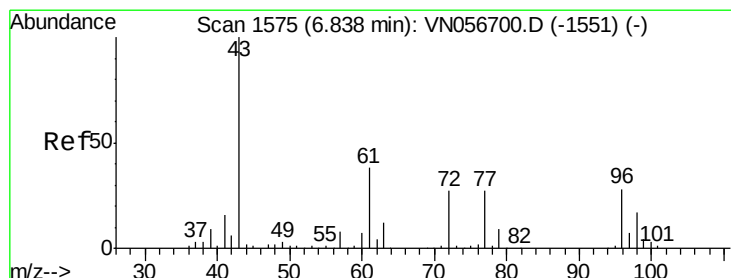
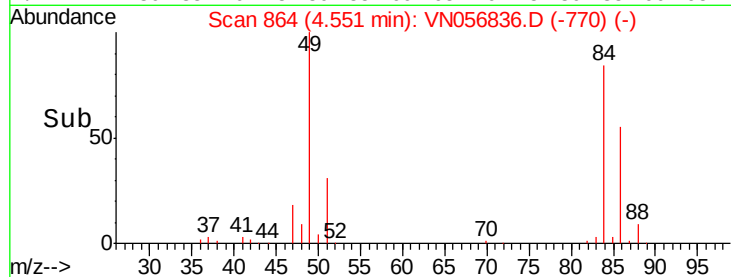
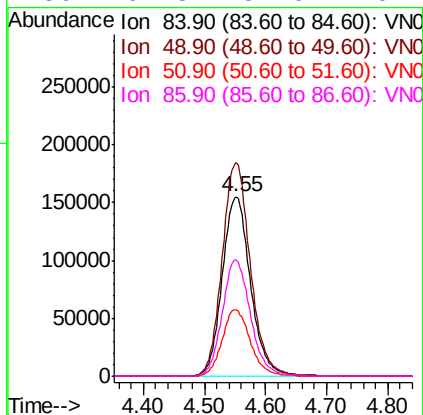
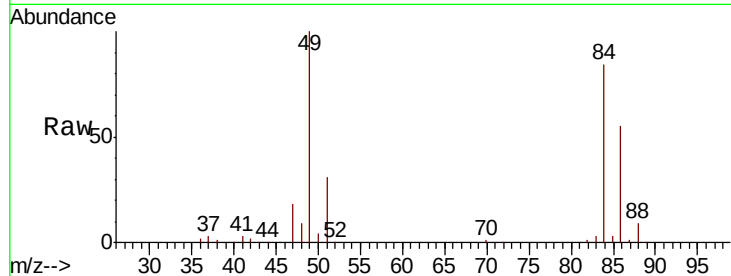




#20
Methvlene Chloride
Concen: 179.907 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN056836.D
Acq: 19 Jul 2019 16:50

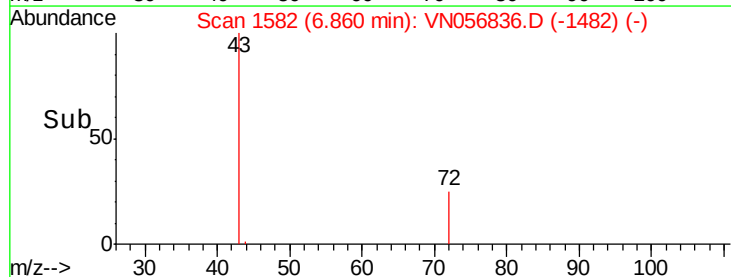
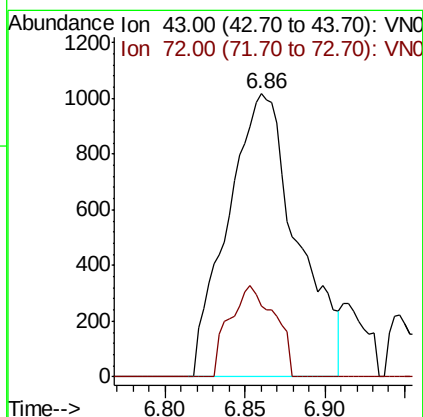
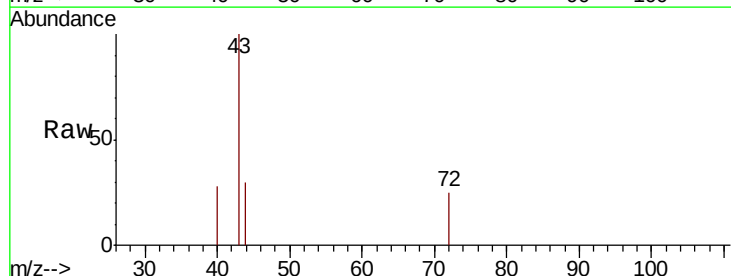
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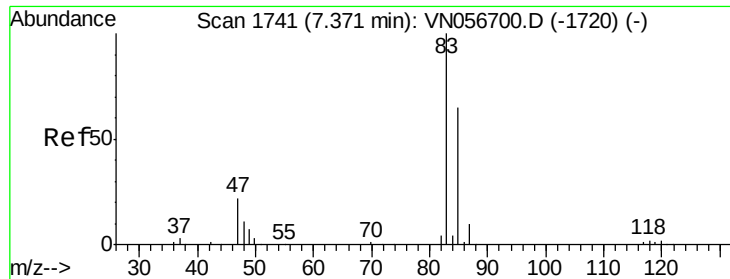
Tot Ion:	84	Resp:	499121
Ion	Ratio	Lower	Upper
84	100		
49	118.7	98.2	147.4
51	36.8	29.6	44.4
86	64.8	51.0	76.4



#25
2-Butanone
Concen: 1.636 ug/l
RT: 6.86 min Scan# 1582
Delta R.T. 0.02 min
Lab File: VN056836.D
Acq: 19 Jul 2019 16:50

Tgt Ion:	43	Resp:	3036
Ion	Ratio	Lower	Upper
43	100		
72	25.1	21.2	31.8

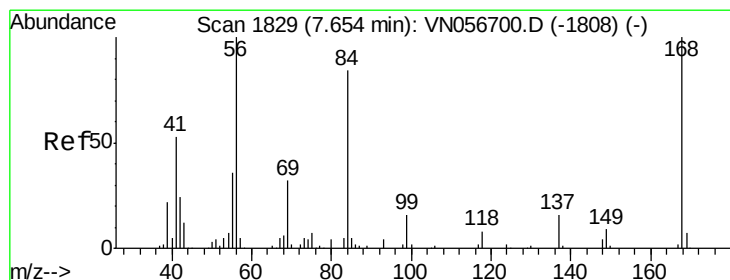
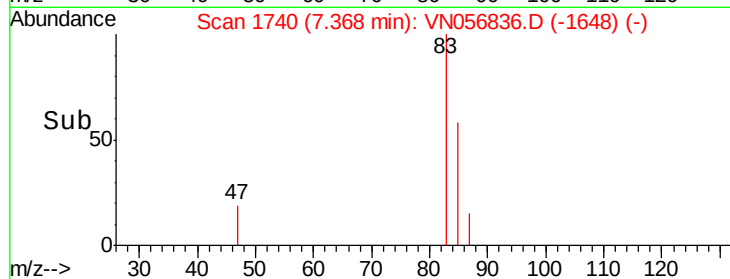
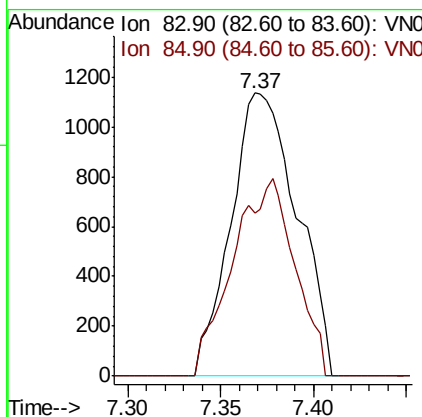
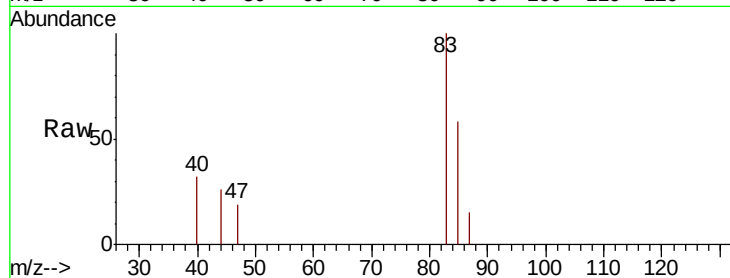




#30
Chloroform
Concen: 0.610 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN056836.D
Acq: 19 Jul 2019 16:50

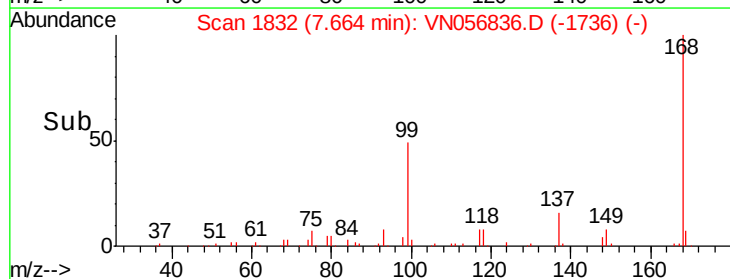
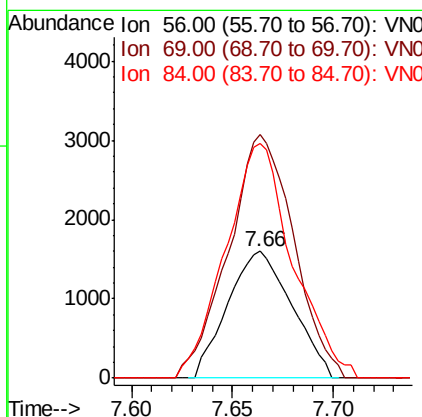
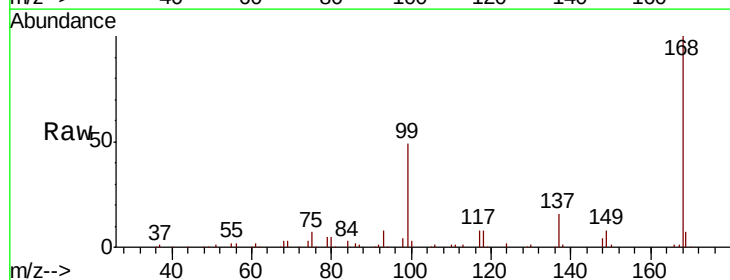
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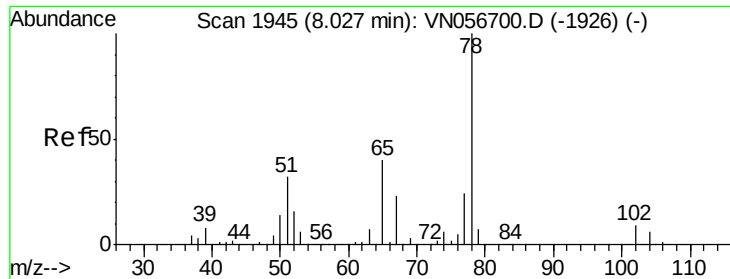
Tot Ion: 83 Resp: 2827
Ion Ratio Lower Upper
83 100
85 57.8 51.9 77.9



#31
Cyclohexane
Concen: 0.805 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN056836.D
Acq: 19 Jul 2019 16:50

Tgt Ion: 56 Resp: 3544
Ion Ratio Lower Upper
56 100
69 181.1 25.8 38.8#
84 172.2 67.4 101.0#

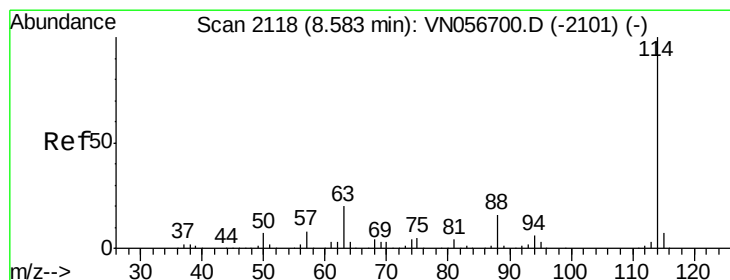
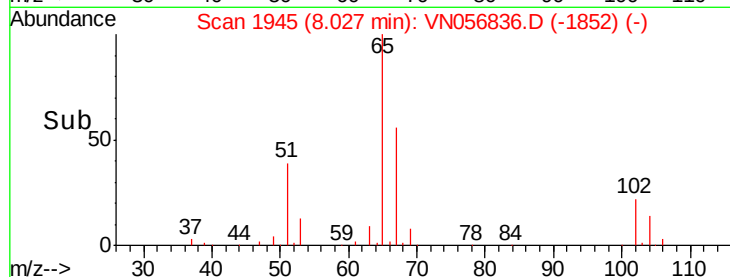
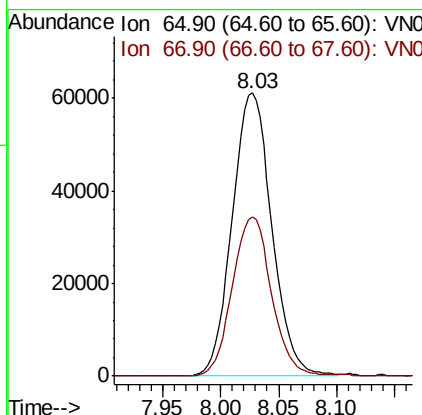
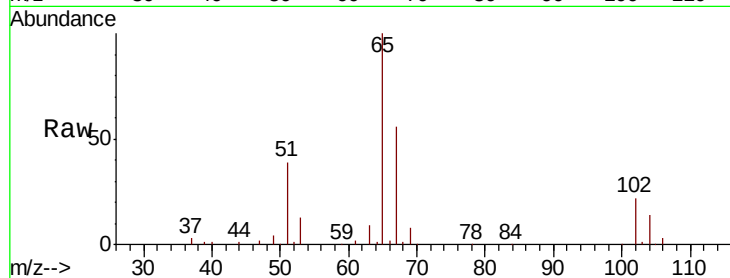




#33
 1,2-Dichloroethane-d4
 Concen: 52.855 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056836.D
 Acq: 19 Jul 2019 16:50

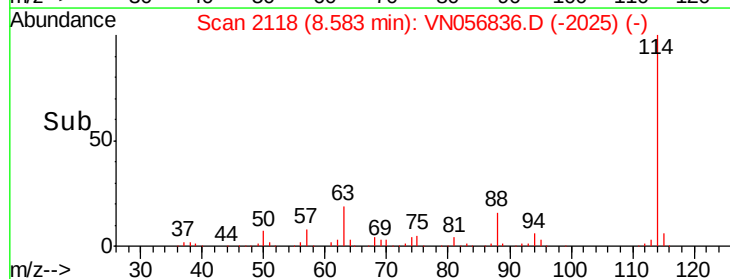
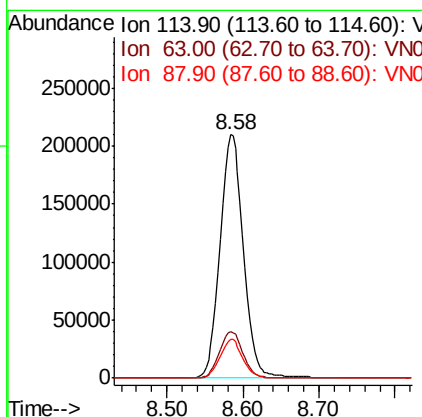
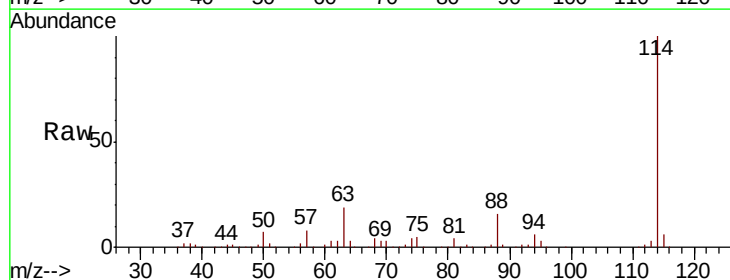
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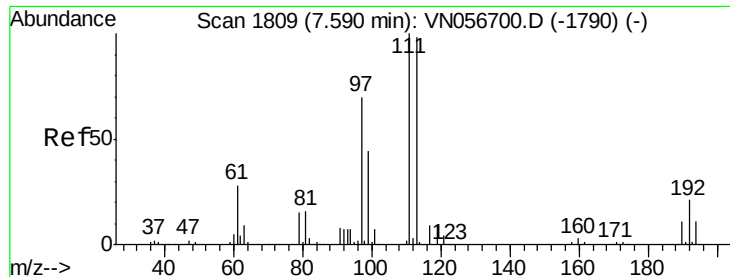
Tot Ion: 65 Resp: 145609
 Ion Ratio Lower Upper
 65 100
 67 55.6 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056836.D
 Acq: 19 Jul 2019 16:50

Tgt Ion: 114 Resp: 450354
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.4
 88 15.7 0.0 31.2

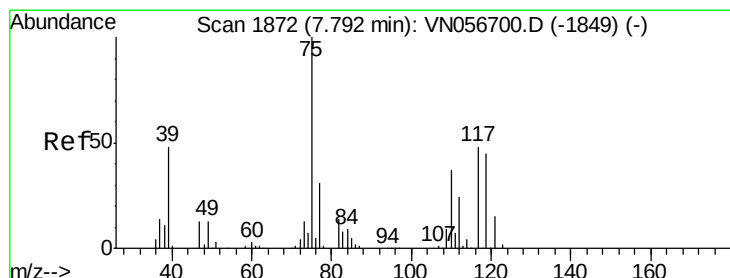
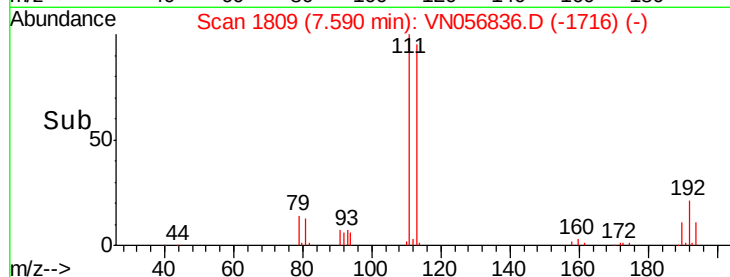
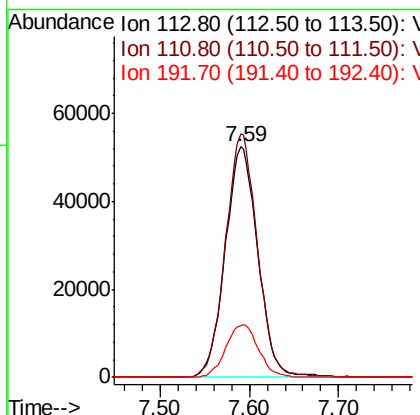
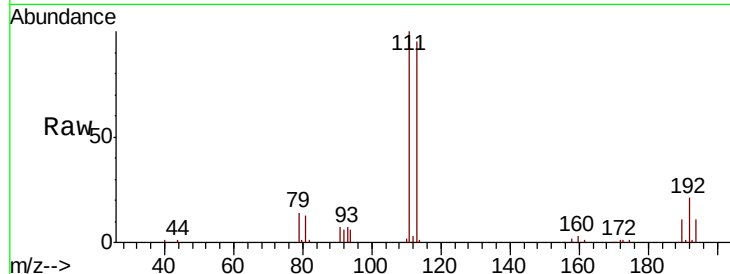




#35
 Dibromofluoromethane
 Concen: 47.384 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN056836.D
 Acq: 19 Jul 2019 16:50

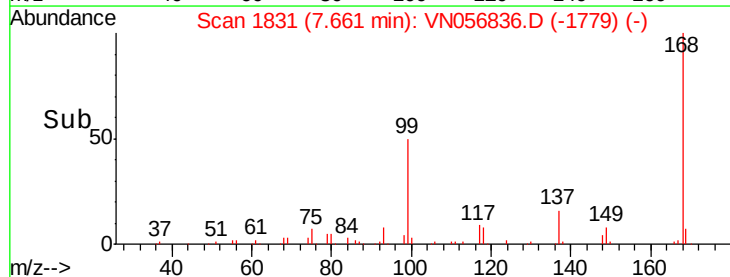
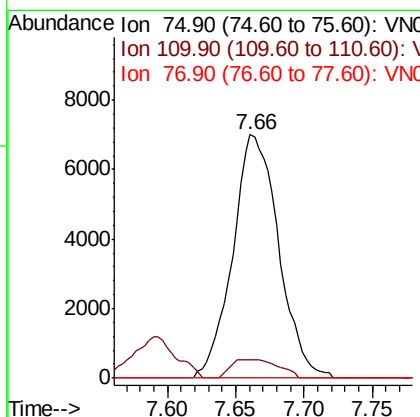
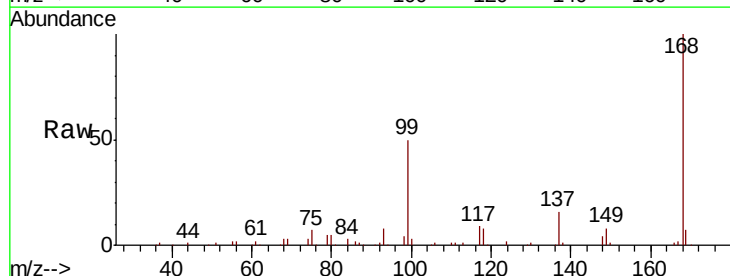
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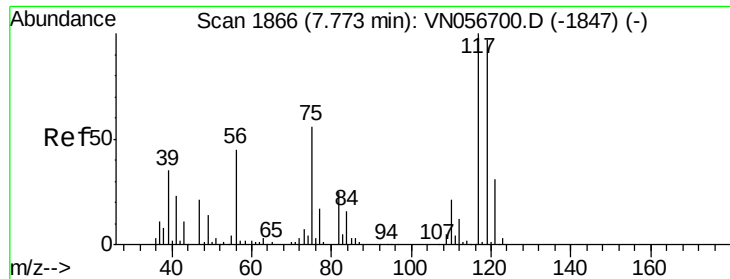
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.8	122.6
192	22.7	17.5	26.3



#36
 1,1-Dichloropropene
 Concen: 3.934 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056836.D
 Acq: 19 Jul 2019 16:50

Tgt Ion	Ratio	Lower	Upper
75	100		
110	2.9	18.4	55.4#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.363 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056836.D

Acq: 19 Jul 2019 16:50

Instrument :

MSVOA_N

ClientSampleId :

HR-06-071719-C

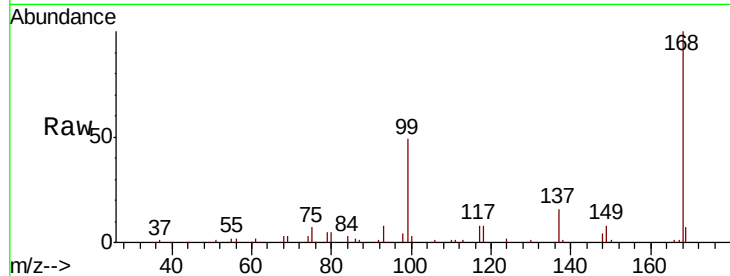
Tot Ion:117 Resp: 20959

Ion Ratio Lower Upper

117 100

119 5.2 77.5 116.3#

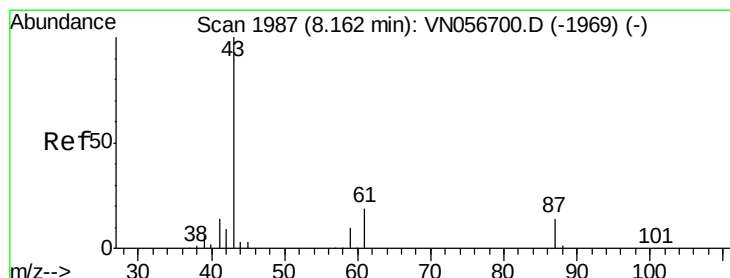
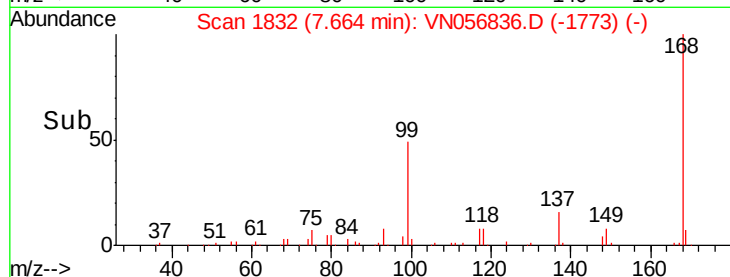
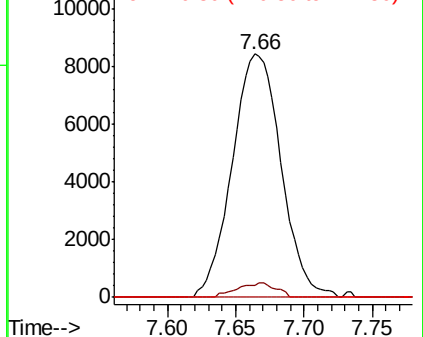
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.416 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056836.D

Acq: 19 Jul 2019 16:50

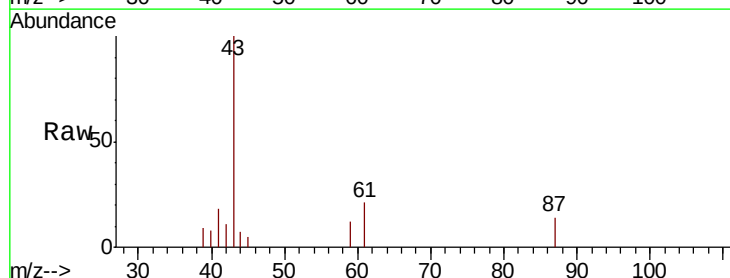
Tgt Ion: 43 Resp: 15602

Ion Ratio Lower Upper

43 100

61 21.4 22.3 33.5#

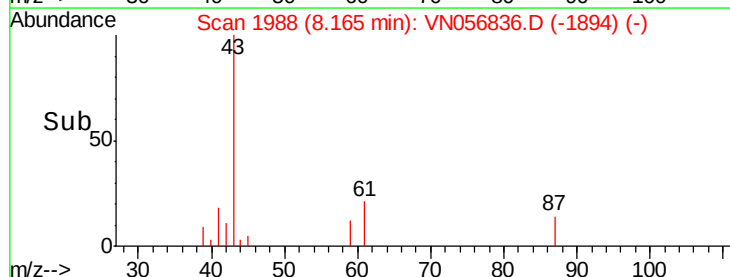
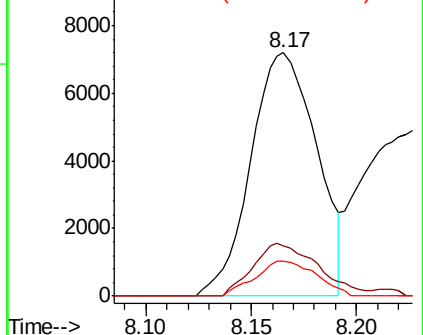
87 13.4 11.1 16.7

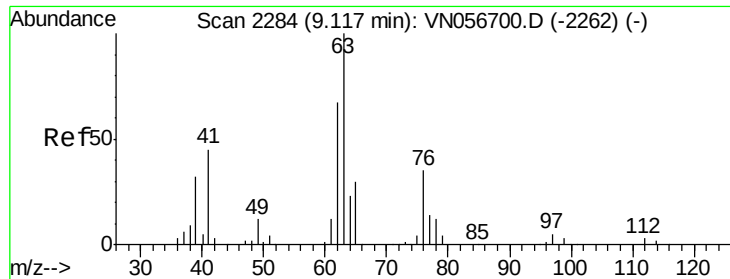


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

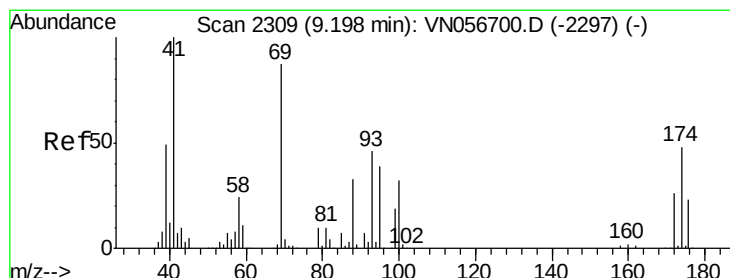
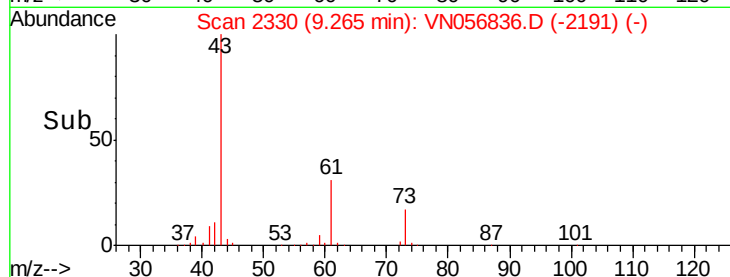
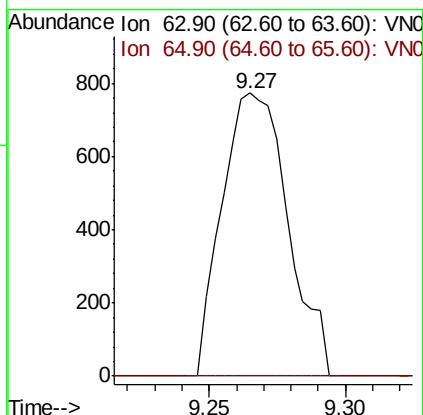
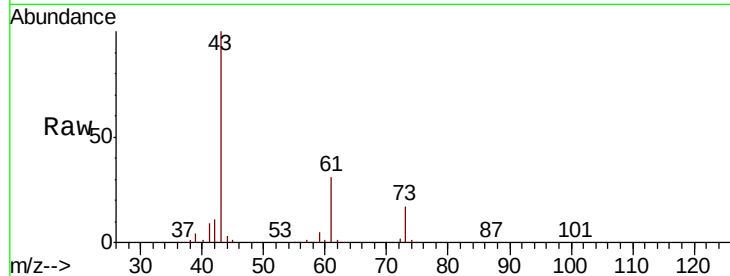




#45
 1,2-Dichloropropane
 Concen: 0.383 ug/l
 RT: 9.27 min Scan# 2330
 Delta R.T. 0.15 min
 Lab File: VN056836.D
 Acq: 19 Jul 2019 16:50

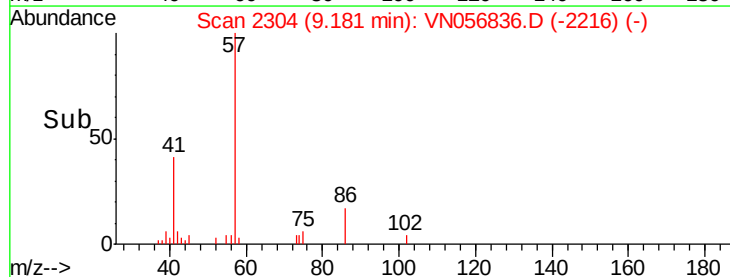
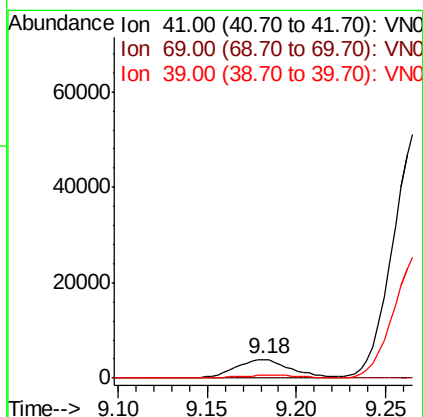
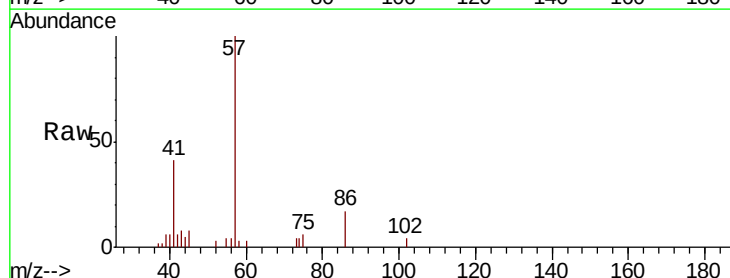
Instrument :
 MSVOA_N
 ClientSampleId :
 HR-06-071719-C

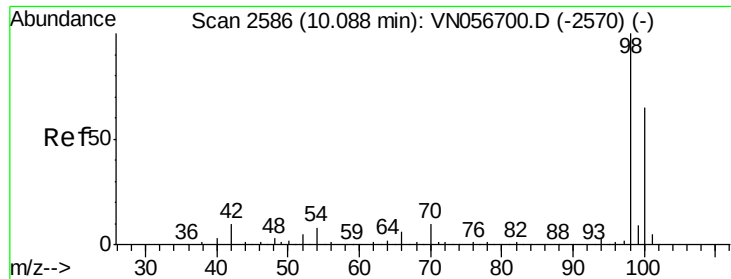
Tot Ion: 63 Resp: 1299
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.0 36.0#



#48
 Methyl methacrylate
 Concen: 2.720 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN056836.D
 Acq: 19 Jul 2019 16:50

Tgt Ion: 41 Resp: 8495
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.4 107.0#
 39 17.3 41.2 61.8#

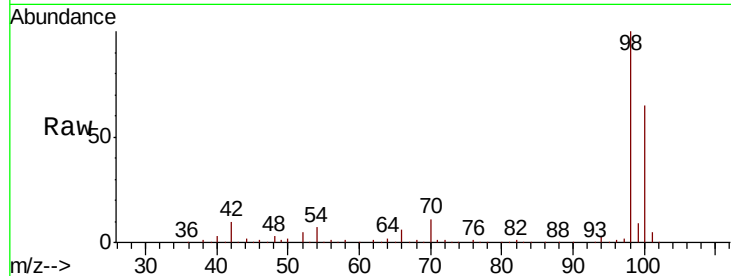




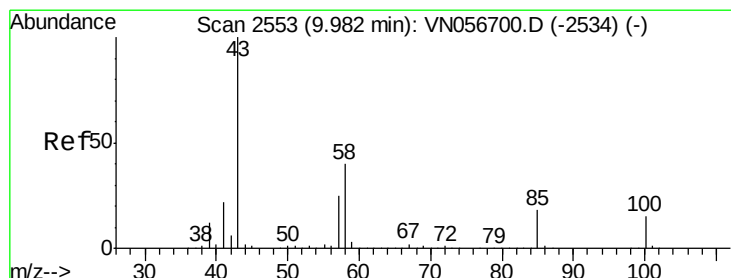
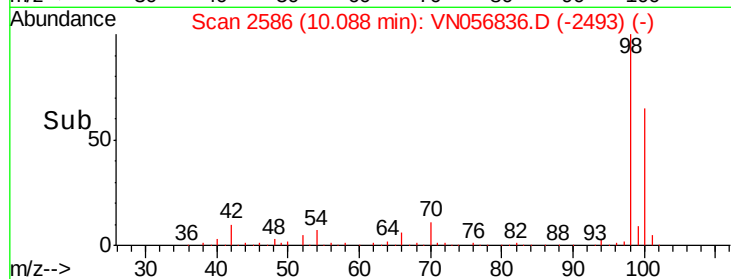
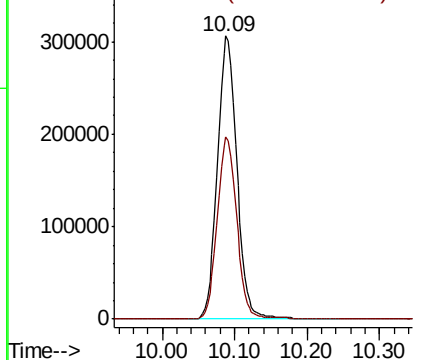
#50
Toluene-d8
Concen: 52.814 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN056836.D
Acq: 19 Jul 2019 16:50

Instrument :
MSVOA_N
ClientSampleId :
HR-06-071719-C

Tot Ion: 98 Resp: 571681
Ion Ratio Lower Upper
98 100
100 64.9 52.0 78.0

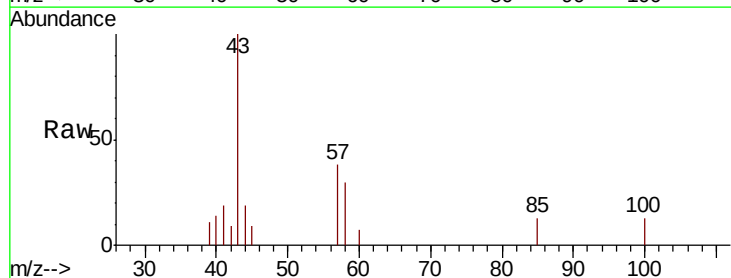


Abundance Ion 98.00 (97.70 to 98.70): VN056700.D (-2570) (-)
Ion 100.00 (99.70 to 100.70): VN056700.D (-2570) (-)

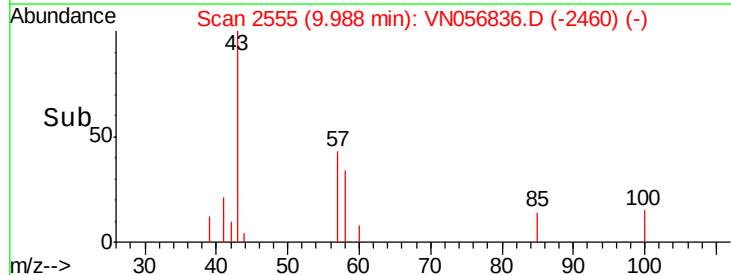
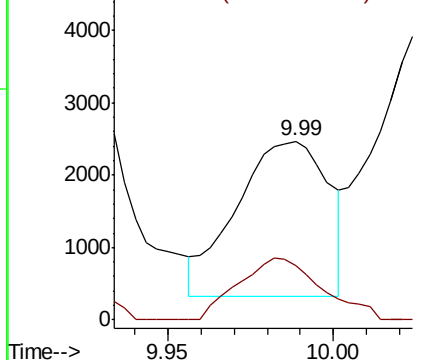


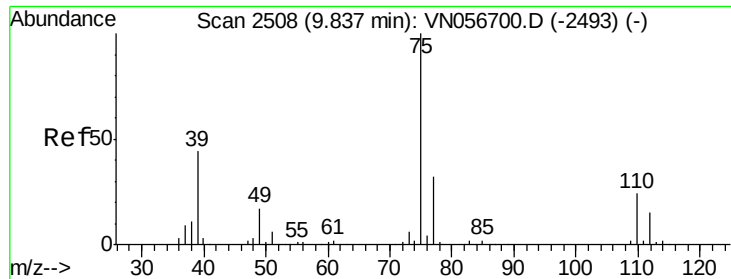
#51
4-Methyl-2-Pentanone
Concen: 0.989 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.01 min
Lab File: VN056836.D
Acq: 19 Jul 2019 16:50

Tgt Ion: 43 Resp: 4137
Ion Ratio Lower Upper
43 100
58 36.3 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VN056700.D (-2534) (-)
Ion 58.00 (57.70 to 58.70): VN056700.D (-2534) (-)





#54

cis-1,3-Dichloropropene

Concen: 8.888 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.06 min

Lab File: VN056836.D

Acq: 19 Jul 2019 16:50

Instrument :

MSVOA_N

ClientSampleId :

HR-06-071719-C

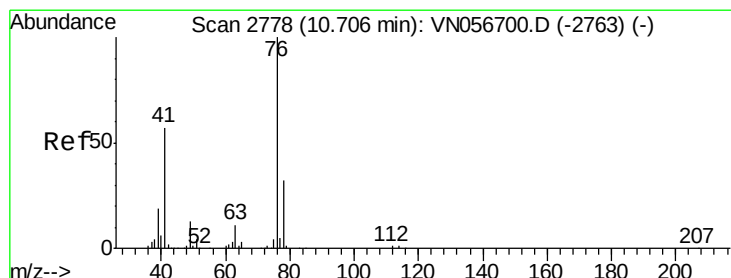
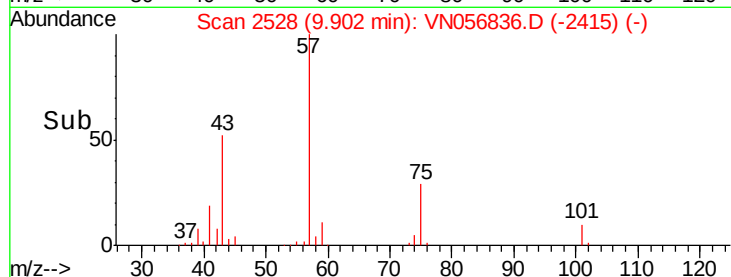
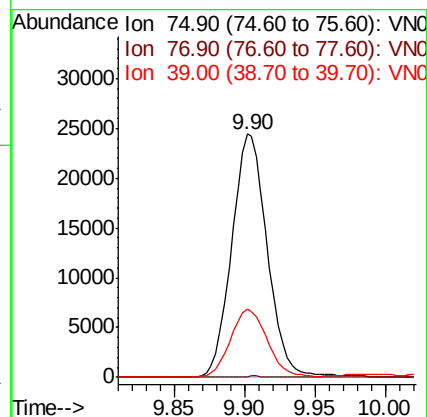
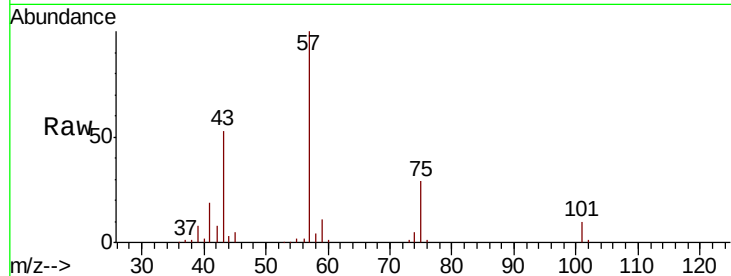
Tot Ion: 75 Resp: 42994

Ion Ratio Lower Upper

75 100

77 0.0 26.0 39.0#

39 27.8 35.1 52.7#



#57

1,3-Dichloropropane

Concen: 1.846 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN056836.D

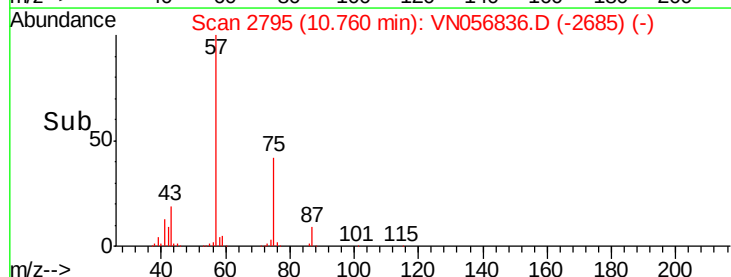
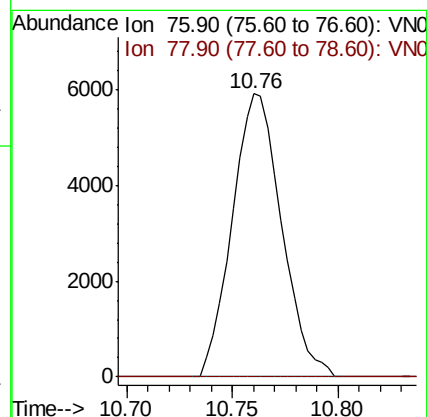
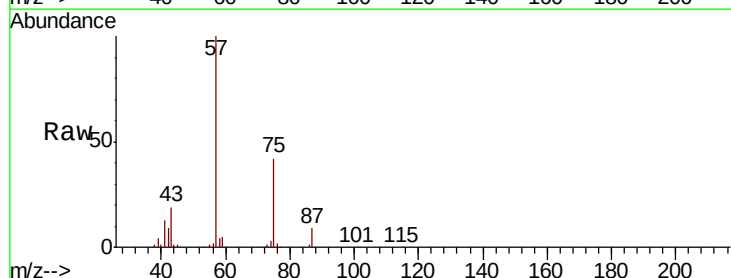
Acq: 19 Jul 2019 16:50

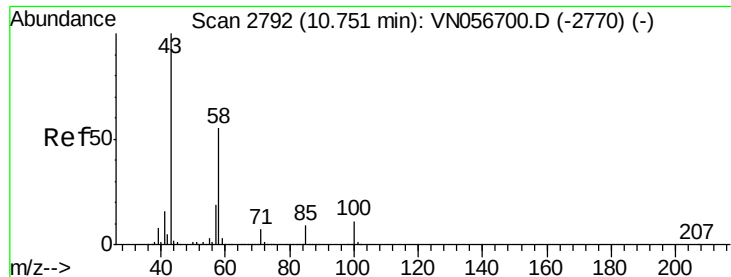
Tgt Ion: 76 Resp: 9591

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#

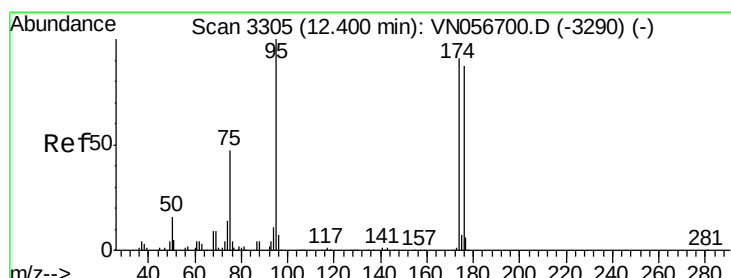
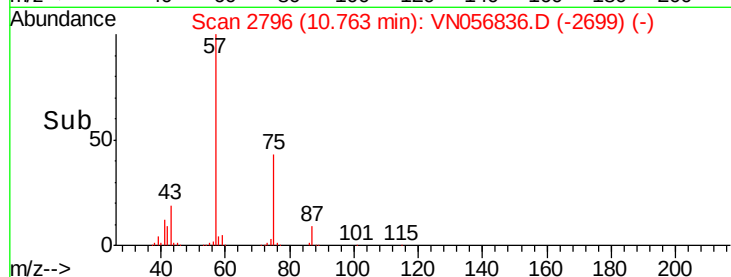
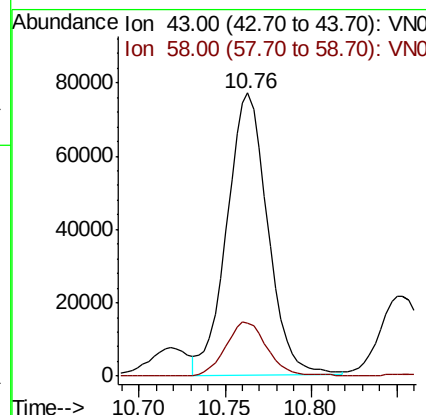
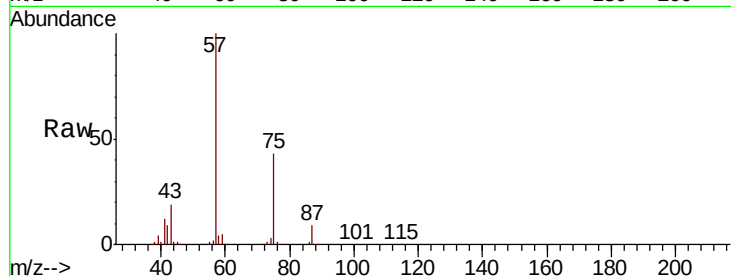




#59
2-Hexanone
Concen: 42.472 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056836.D
Acq: 19 Jul 2019 16:50

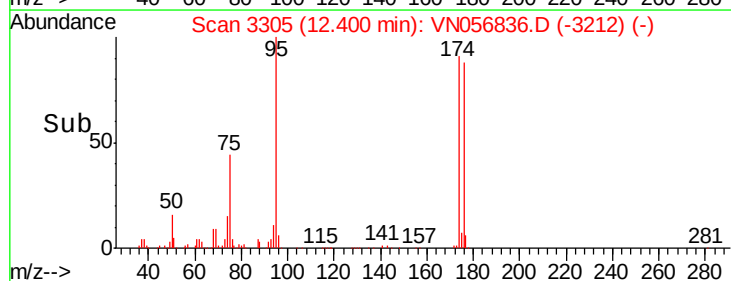
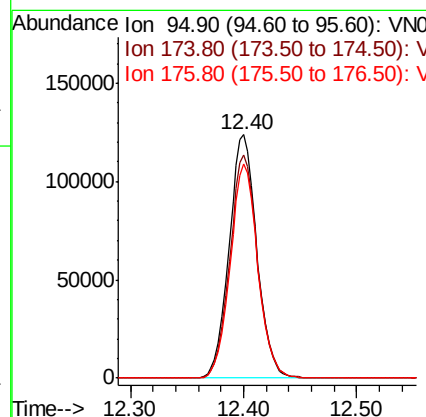
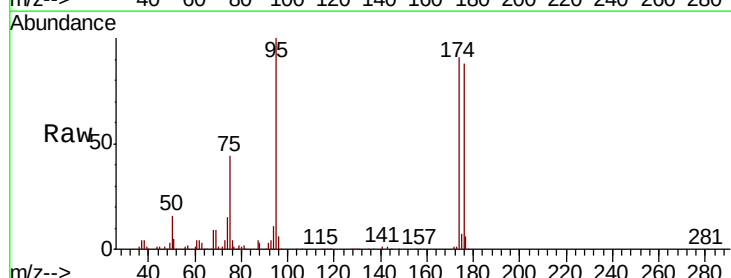
Instrument :
MSVOA_N
ClientSampleId :
HR-06-071719-C

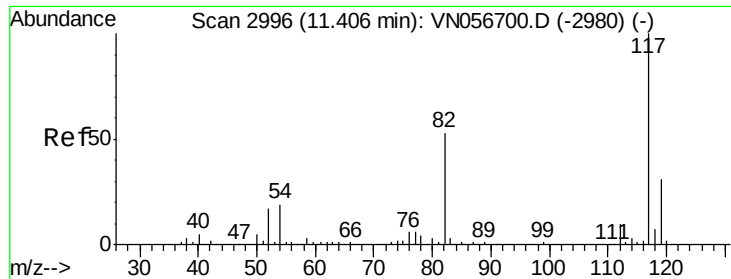
Tot Ion: 43 Resp: 127453
Ion Ratio Lower Upper
43 100
58 19.5 27.9 83.6#



#62
4-Bromofluorobenzene
Concen: 57.661 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056836.D
Acq: 19 Jul 2019 16:50

Tgt Ion: 95 Resp: 210483
Ion Ratio Lower Upper
95 100
174 92.0 0.0 180.0
176 87.3 0.0 173.2

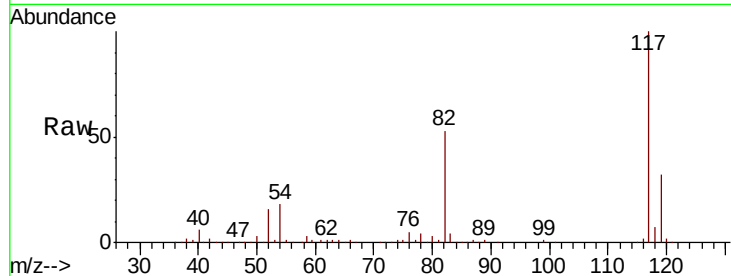




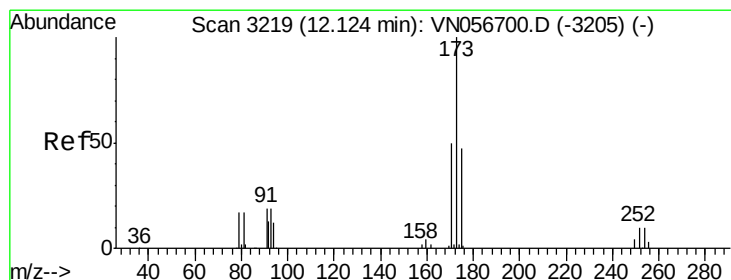
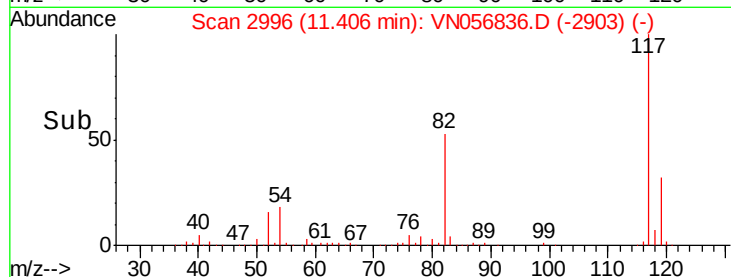
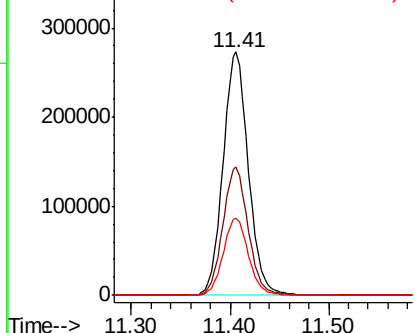
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056836.D
Acq: 19 Jul 2019 16:50

Instrument :
MSVOA_N
ClientSampleId :
HR-06-071719-C

Tot Ion:117 Resp: 489998
Ion Ratio Lower Upper
117 100
82 52.5 42.2 63.2
119 31.9 25.2 37.8

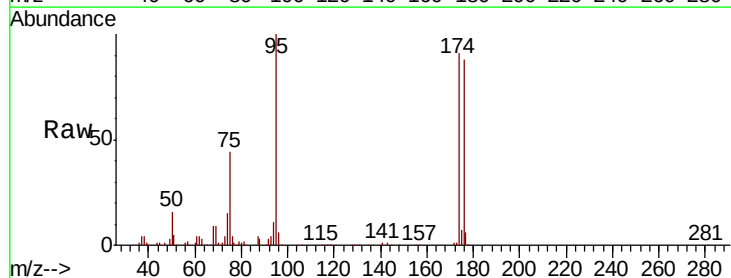


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

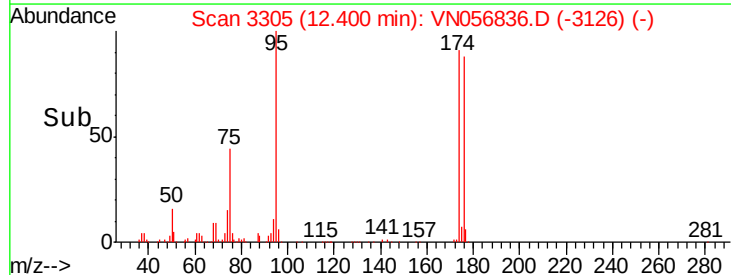
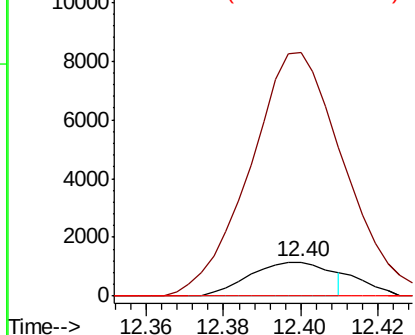


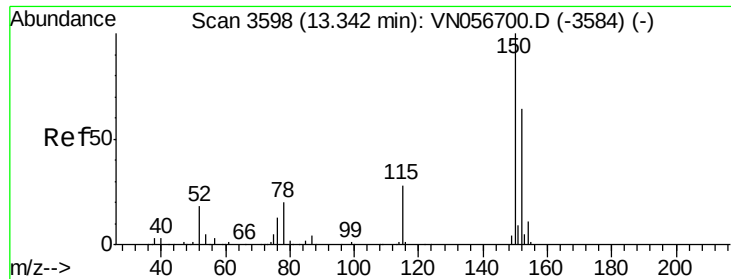
#71
Bromoform
Concen: 0.596 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.28 min
Lab File: VN056836.D
Acq: 19 Jul 2019 16:50

Tgt Ion:173 Resp: 1672
Ion Ratio Lower Upper
173 100
175 711.4 23.8 71.4#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



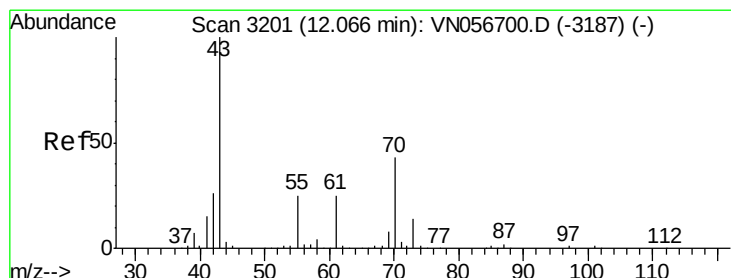
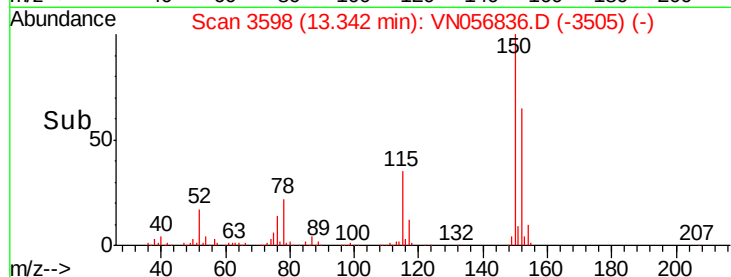
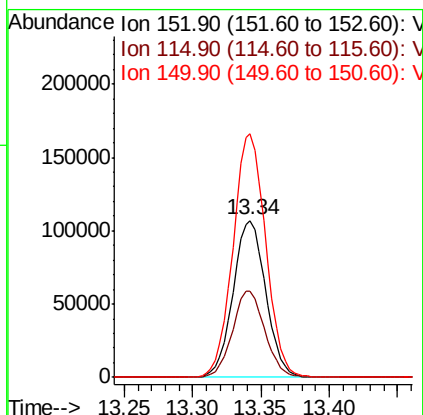
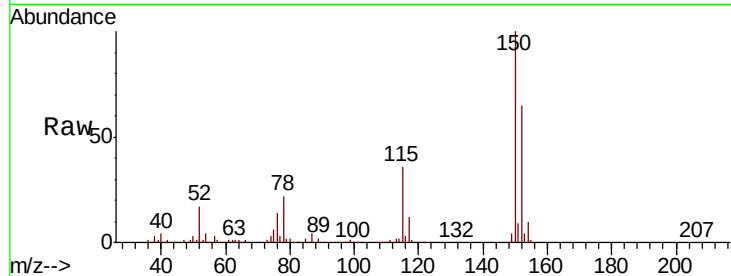


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056836.D
Acq: 19 Jul 2019 16:50

Instrument :
MSVOA_N
ClientSampleId :
HR-06-071719-C

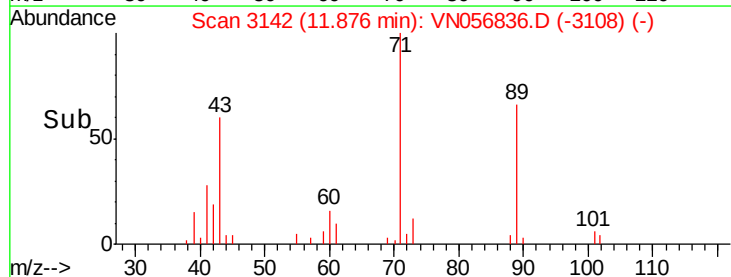
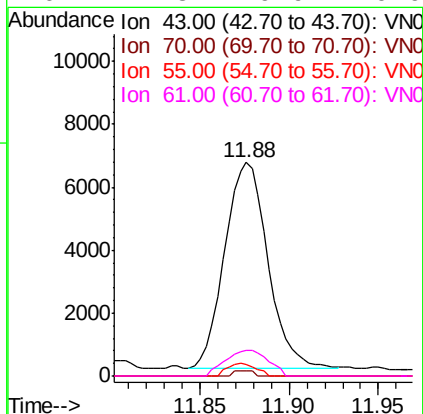
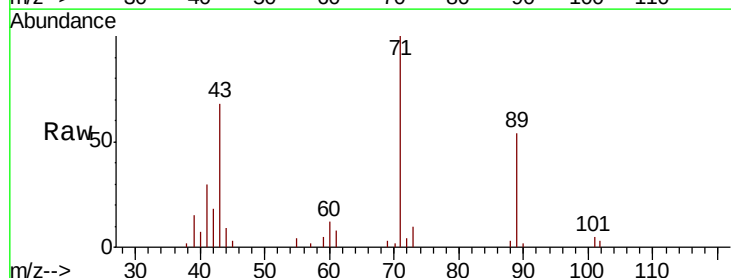
Tot Ion:152 Resp: 177231
Ion Ratio Lower Upper
152 100
115 54.8 28.2 84.7
150 156.0 0.0 345.8

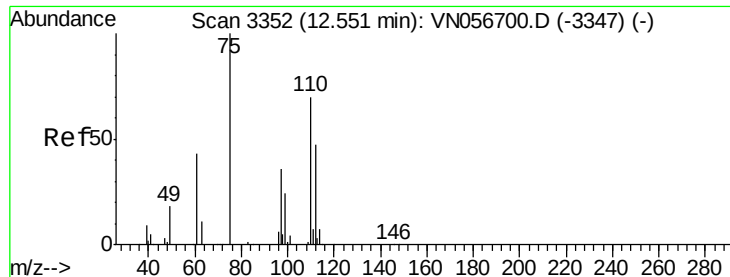


#74

N-ethyl acetate
Concen: 2.074 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN056836.D
Acq: 19 Jul 2019 16:50

Tgt Ion: 43 Resp: 11038
Ion Ratio Lower Upper
43 100
70 1.2 34.5 51.7#
55 4.0 20.2 30.2#
61 12.3 19.9 29.9#





#76

1,2,3-Trichloropropane

Concen: 24.345 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056836.D

Acq: 19 Jul 2019 16:50

Instrument :

MSVOA_N

ClientSampleId :

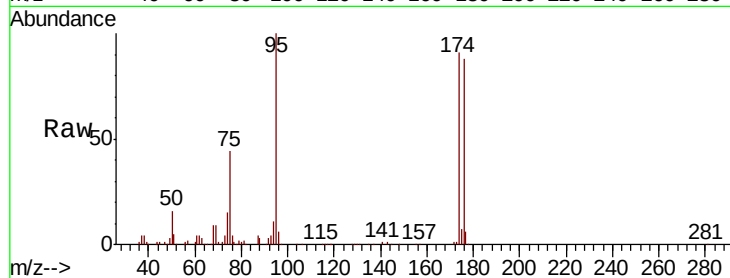
HR-06-071719-C

Tot Ion: 75 Resp: 94367

Ion Ratio Lower Upper

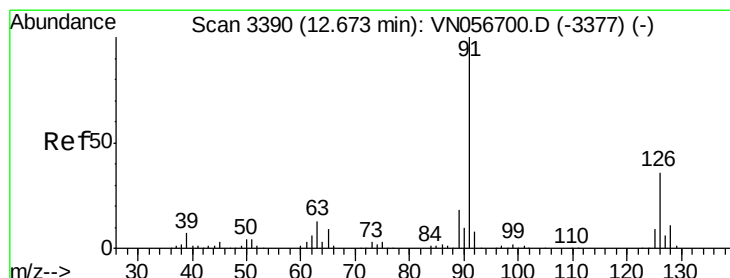
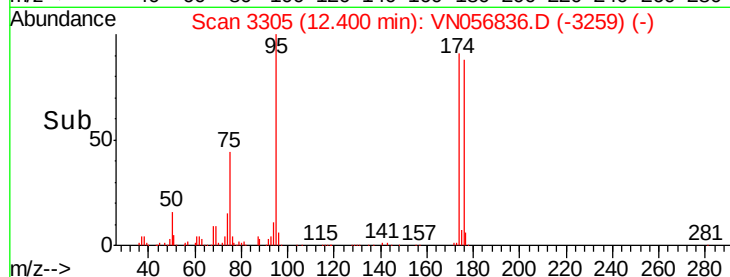
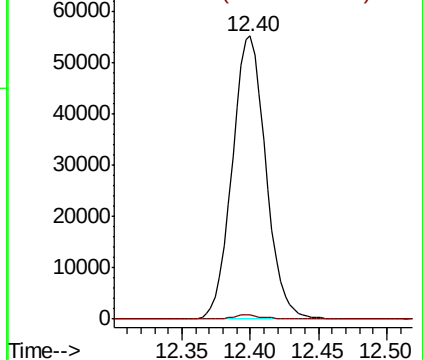
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.66 min Scan# 3385

Delta R.T. -0.02 min

Lab File: VN056836.D

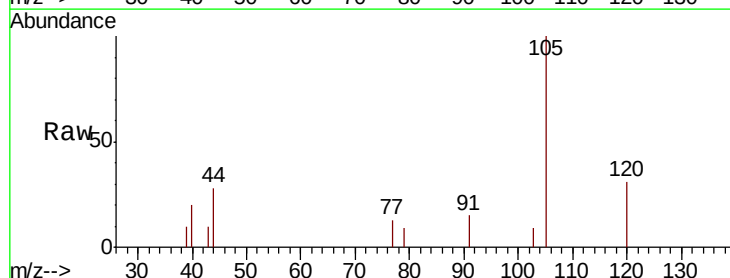
Acq: 19 Jul 2019 16:50

Tgt Ion: 91 Resp: 481

Ion Ratio Lower Upper

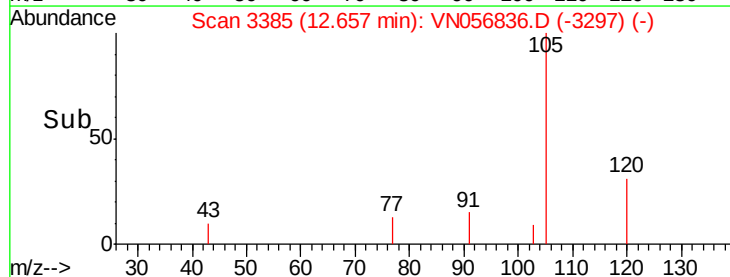
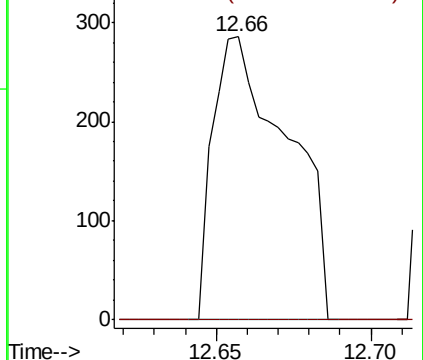
91 100

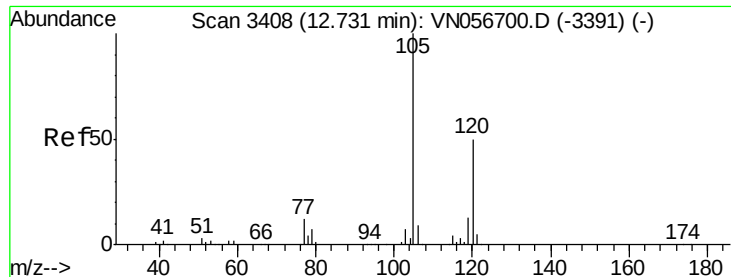
126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

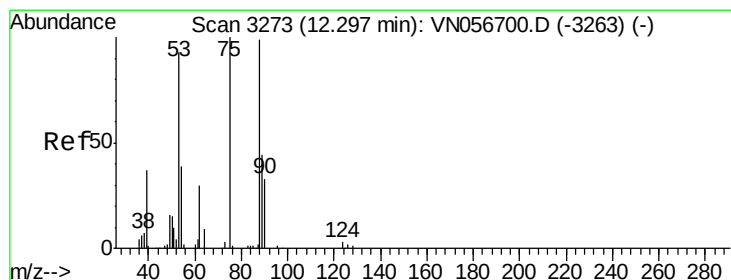
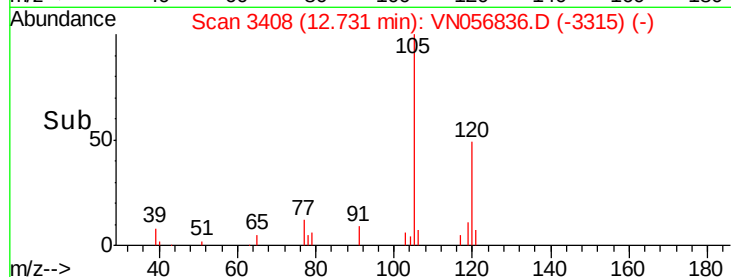
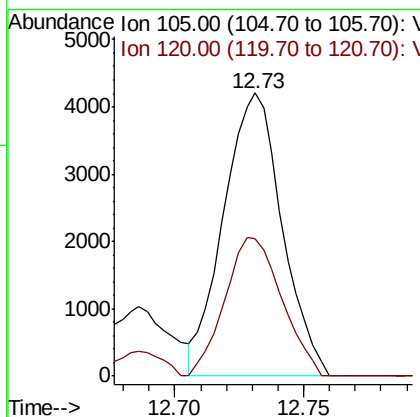
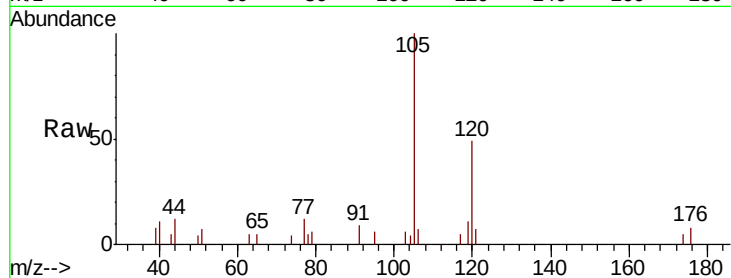




#80
 1,3,5-Trimethylbenzene
 Concen: 0.548 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN056836.D
 Acq: 19 Jul 2019 16:50

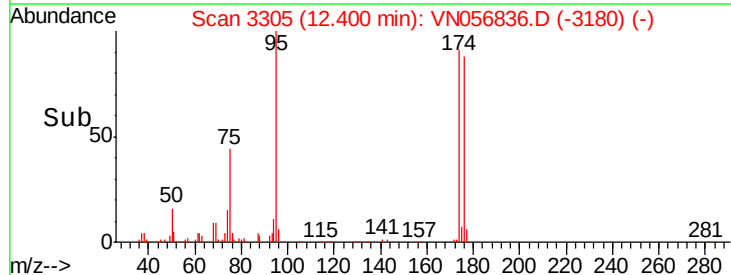
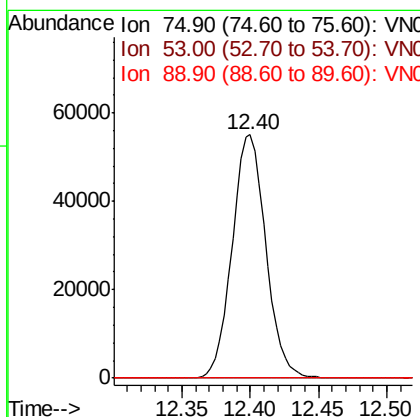
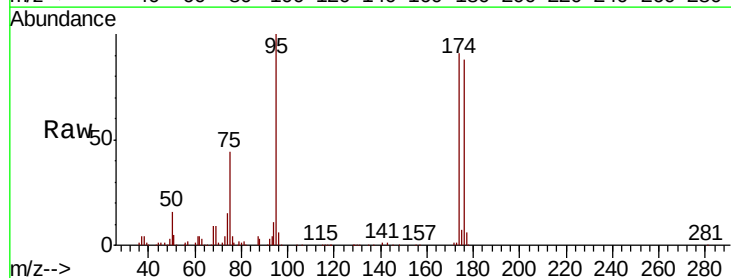
Instrument :
 MSVOA_N
 ClientSampleId :
 HR-06-071719-C

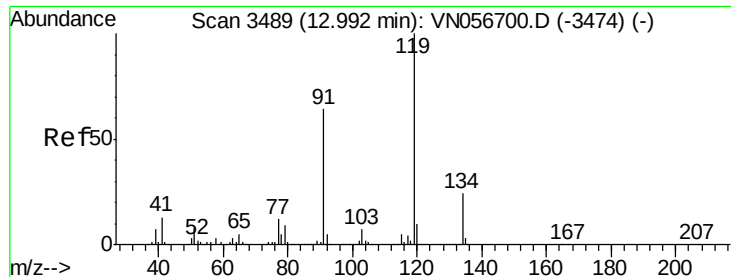
Tot Ion:105 Resp: 6643
 Ion Ratio Lower Upper
 105 100
 120 47.7 24.8 74.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.184 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN056836.D
 Acq: 19 Jul 2019 16:50

Tgt Ion: 75 Resp: 94367
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.7 110.5#
 89 0.0 36.2 54.2#

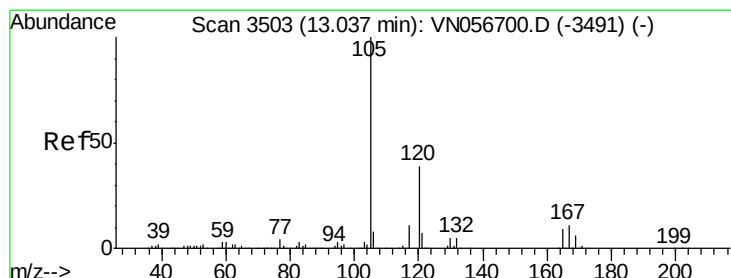
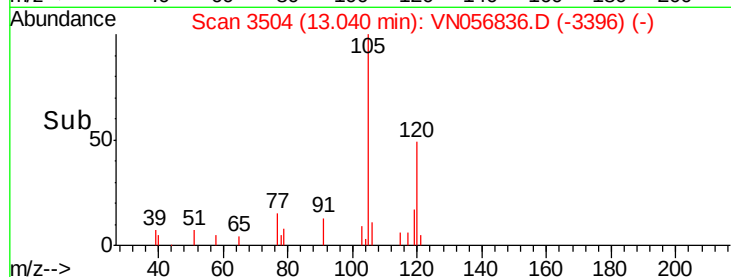
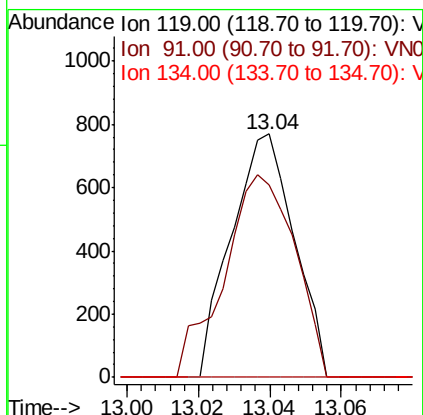
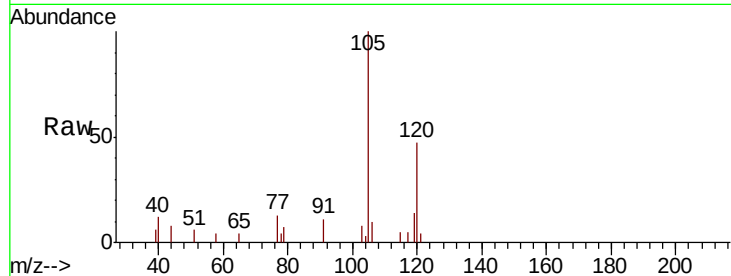




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.05 min
 Lab File: VN056836.D
 Acq: 19 Jul 2019 16:50

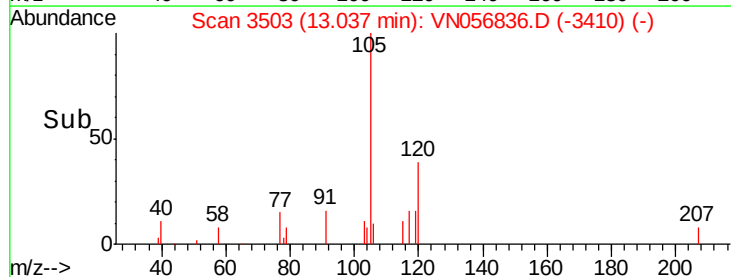
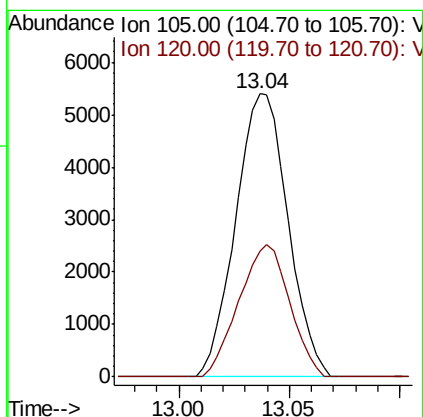
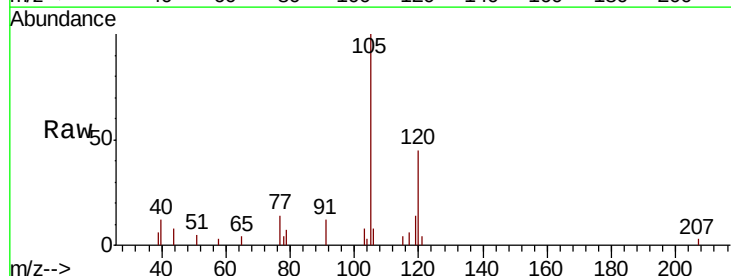
Instrument :
 MSVOA_N
 ClientSampleId :
 HR-06-071719-C

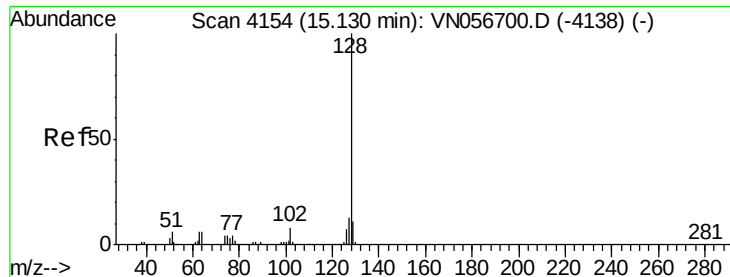
Tot Ion:119 Resp: 936
 Ion Ratio Lower Upper
 119 100
 91 94.0 31.8 95.4
 134 0.0 13.0 38.9#



#84
 1,2,4-Trimethylbenzene
 Concen: 0.752 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN056836.D
 Acq: 19 Jul 2019 16:50

Tgt Ion:105 Resp: 8892
 Ion Ratio Lower Upper
 105 100
 120 45.3 22.9 68.8





#95

Naphthalene

Concen: 4.720 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056836.D

Acq: 19 Jul 2019 16:50

Instrument :

MSVOA_N

ClientSampleId :

HR-06-071719-C

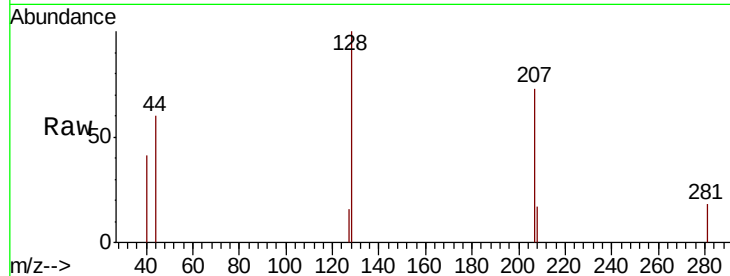
Tot Ion:128 Resp: 2026

Ion Ratio Lower Upper

128 100

127 8.2 10.3 15.5#

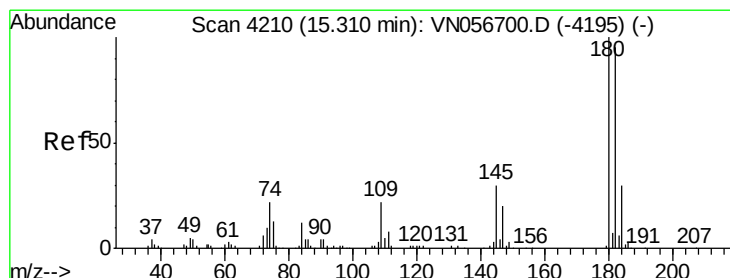
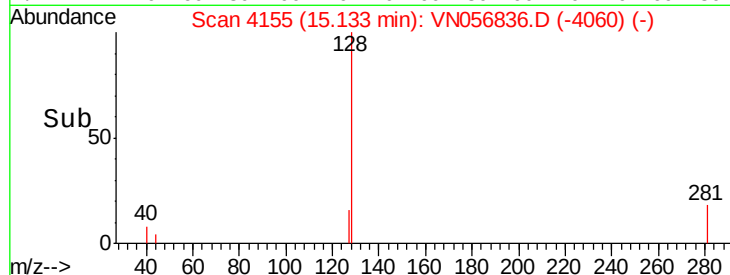
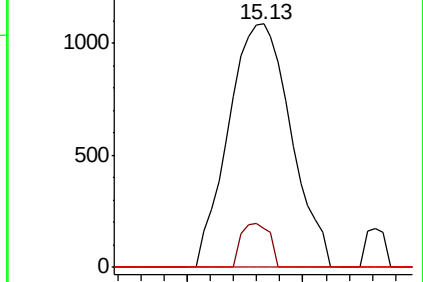
129 0.0 8.7 13.1#



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



#96

1,2,3-Trichlorobenzene

Concen: 3.332 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.01 min

Lab File: VN056836.D

Acq: 19 Jul 2019 16:50

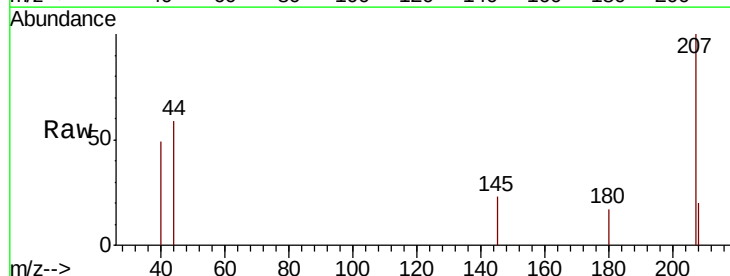
Tgt Ion:180 Resp: 34

Ion Ratio Lower Upper

180 100

182 0.0 47.1 141.3#

145 714.7 15.0 45.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

