

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN080619\
 Data File : VN057099.D
 Acq On : 6 Aug 2019 13:34
 Operator : JC/SP
 Sample : K4152-37
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 2S-E1-(30)

Quant Time: Aug 07 02:23:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	582880	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	850526	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	701808	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	234554	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	292153	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	
35) Dibromofluoromethane	7.58	113	255514	46.93	ug/l	0.00
Spiked Amount			Recovery	=	93.86%	
50) Toluene-d8	10.08	98	977433	47.07	ug/l	0.00
Spiked Amount			Recovery	=	94.14%	
62) 4-Bromofluorobenzene	12.40	95	277800	41.10	ug/l	0.00
Spiked Amount			Recovery	=	82.20%	

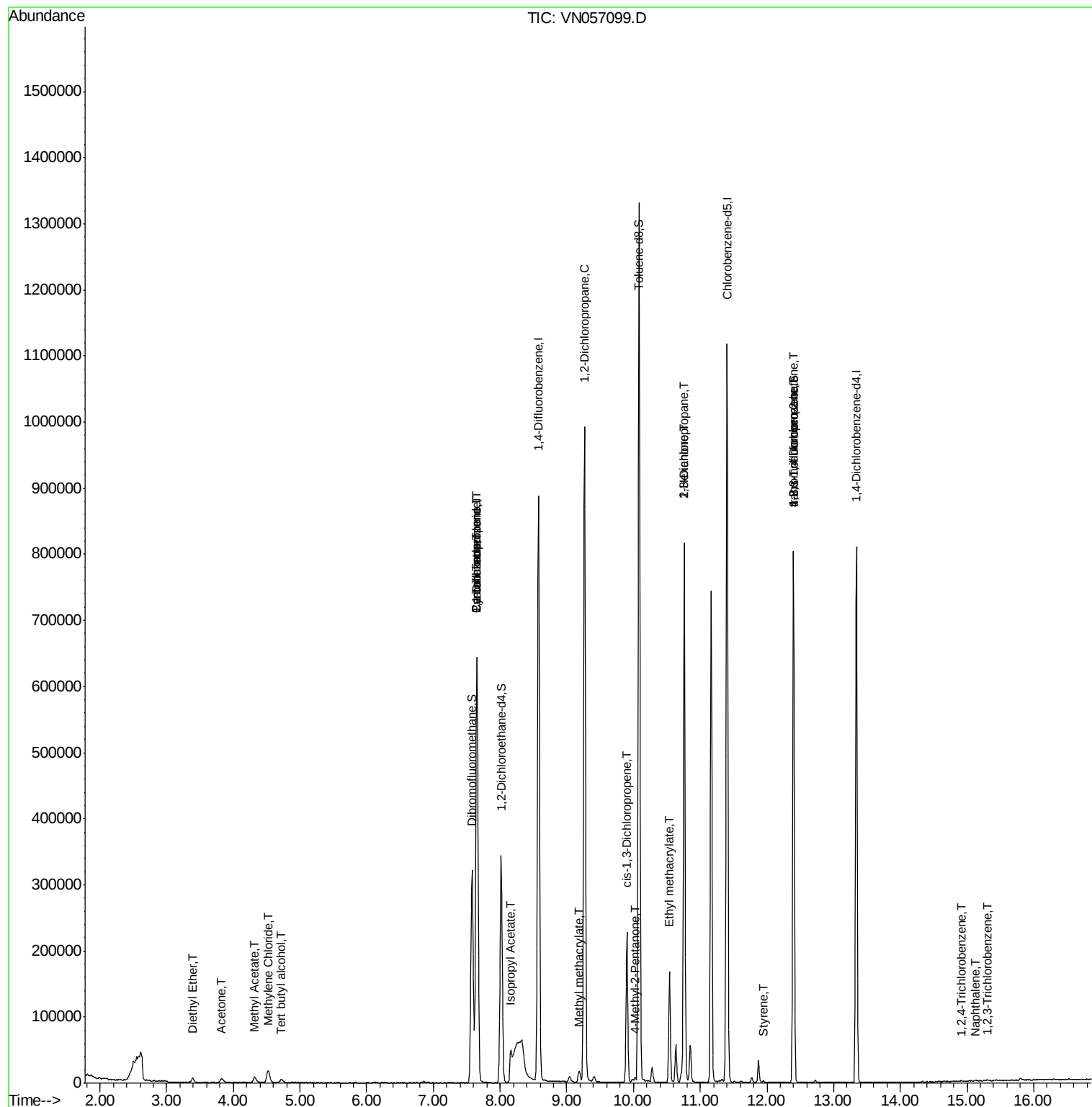
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.39	74	3610	1.114	ug/l	84
11) Tert butyl alcohol	4.72	59	4575	5.673	ug/l #	74
16) Acetone	3.82	43	12468	5.768	ug/l	93
18) Methyl Acetate	4.32	43	18852	2.734	ug/l #	75
20) Methylene Chloride	4.52	84	16577	2.662	ug/l	91
31) Cyclohexane	7.65	56	8585	0.876	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	36995	4.943	ug/l #	47
38) Carbon Tetrachloride	7.65	117	49905	7.050	ug/l #	18
43) Isopropyl Acetate	8.16	43	44682	4.510	ug/l #	69
45) 1,2-Dichloropropane	9.26	63	1346	0.218	ug/l #	44
48) Methyl methacrylate	9.19	41	6771	1.416	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	6306	1.071	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	45461	5.154	ug/l #	64
56) Ethyl methacrylate	10.54	69	802	1.853	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	8613	0.935	ug/l #	42
59) 2-Hexanone	10.76	43	111310	26.809	ug/l #	51
70) Styrene	11.96	104	225	1.881	ug/l #	54
75) 1,1,2,2-Tetrachloroethane	12.39	83	32	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	130089	27.310	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	130089	87.747	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	652	2.862	ug/l	73
95) Naphthalene	15.12	128	934	3.675	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.30	180	694	2.211	ug/l #	86

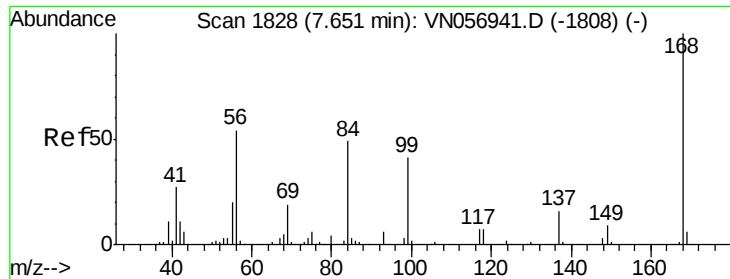
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jul 27 01:33:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057099.D

Acq: 6 Aug 2019 13:34

Instrument :

MSVOA_N

ClientSampleId :

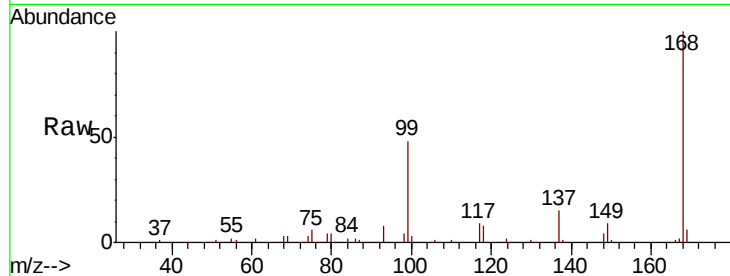
2S-E1-(30)

Tgt Ion:168 Resp: 582880

Ion Ratio Lower Upper

168 100

99 48.1 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): VN056941.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN056941.D (-1808) (-)

7.65

250000

200000

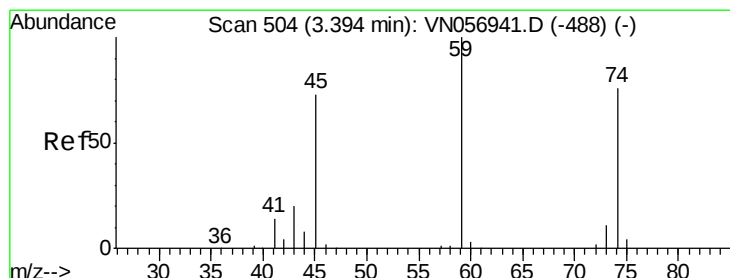
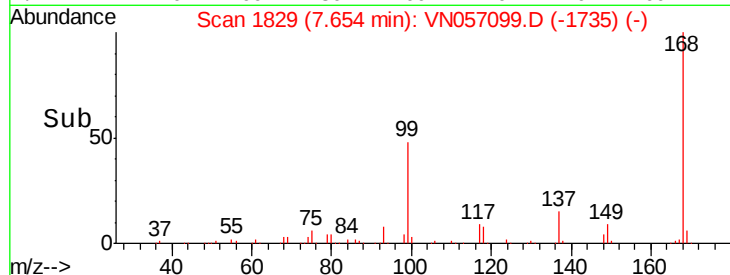
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.114 ug/l

RT: 3.39 min Scan# 502

Delta R.T. -0.01 min

Lab File: VN057099.D

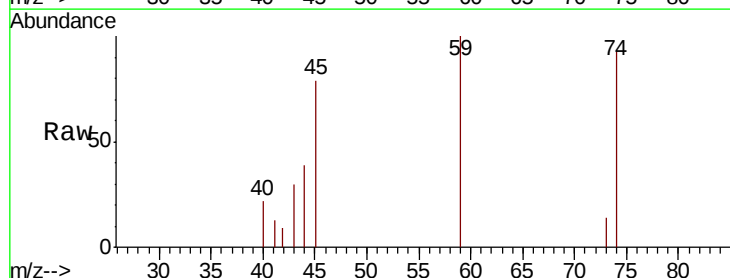
Acq: 6 Aug 2019 13:34

Tgt Ion: 74 Resp: 3610

Ion Ratio Lower Upper

74 100

45 112.3 48.1 144.3



Abundance Ion 74.00 (73.70 to 74.70): VN056941.D (-488) (-)

Ion 45.00 (44.70 to 45.70): VN056941.D (-488) (-)

3.39

2000

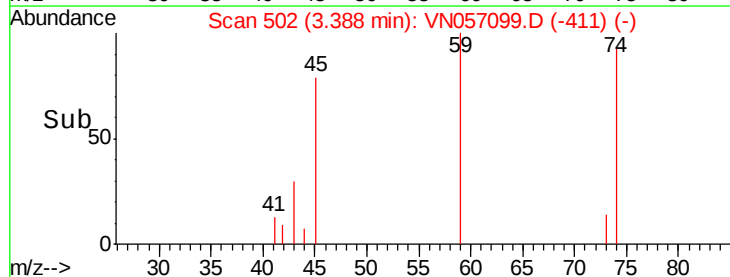
1500

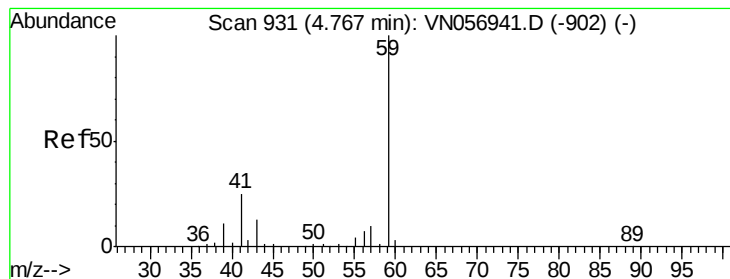
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500

0

Time-->



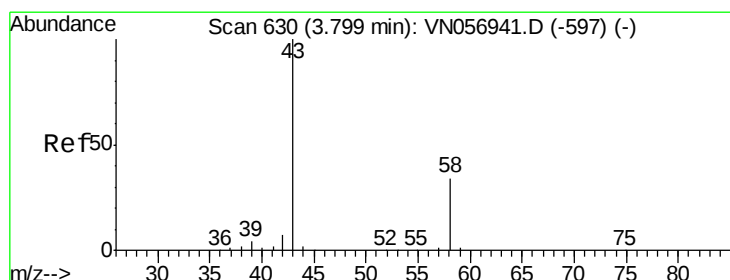
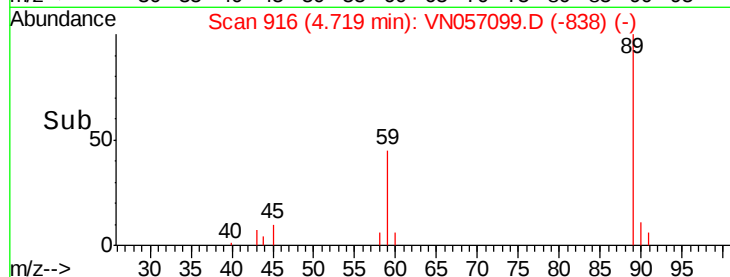
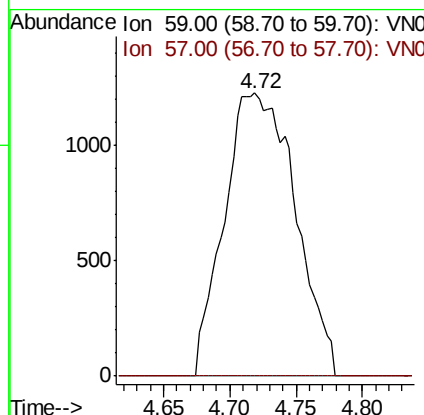
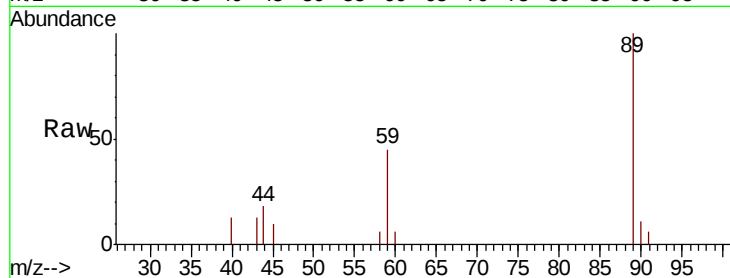


#11

Tert butyl alcohol
 Concen: 5.673 ug/l
 RT: 4.72 min Scan# 916
 Delta R.T. -0.05 min
 Lab File: VN057099.D
 Acq: 6 Aug 2019 13:34

Instrument :
 MSVOA_N
 ClientSampled :
 2S-E1-(30)

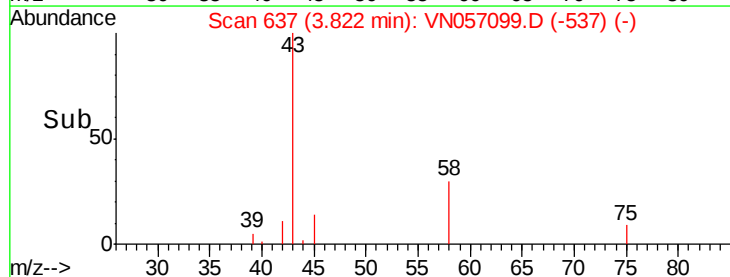
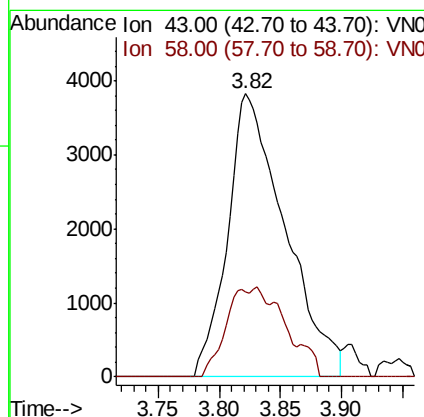
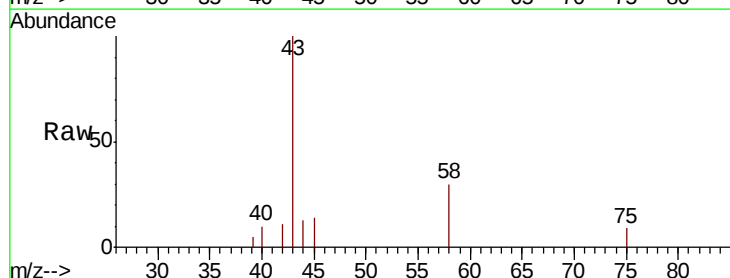
Tgt Ion: 59 Resp: 4575
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.5 11.3#

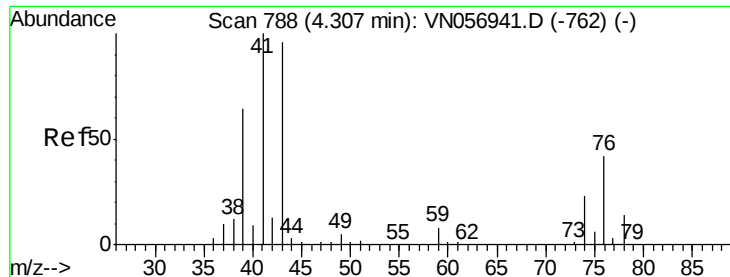


#16

Acetone
 Concen: 5.768 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.02 min
 Lab File: VN057099.D
 Acq: 6 Aug 2019 13:34

Tgt Ion: 43 Resp: 12468
 Ion Ratio Lower Upper
 43 100
 58 30.2 27.2 40.8

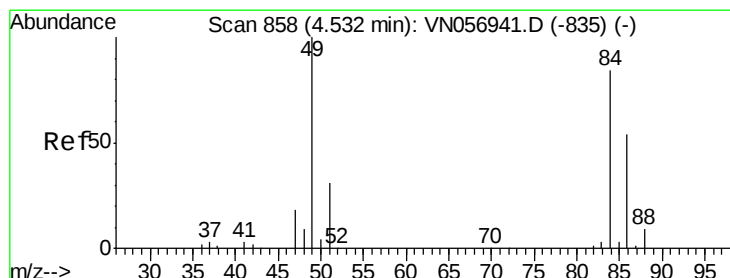
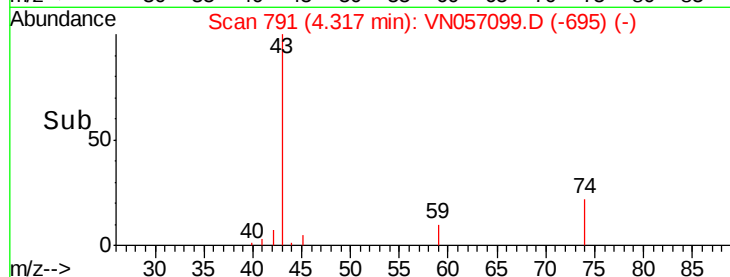
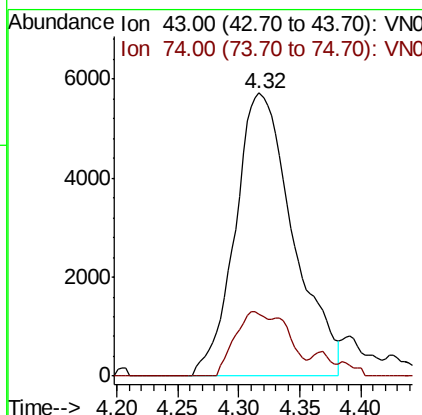
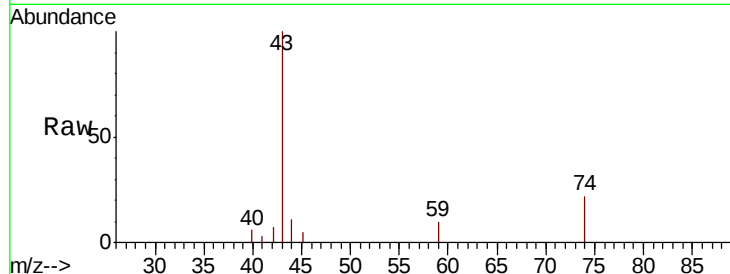




#18
Methyl Acetate
Concen: 2.734 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN057099.D
Acq: 6 Aug 2019 13:34

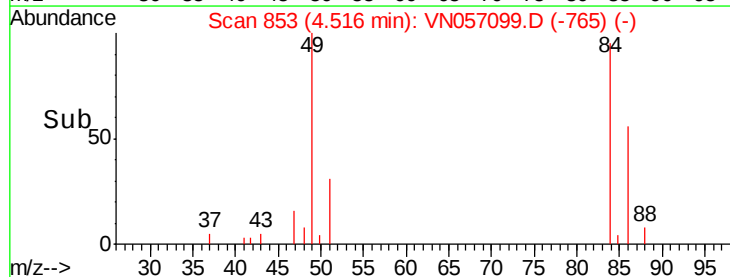
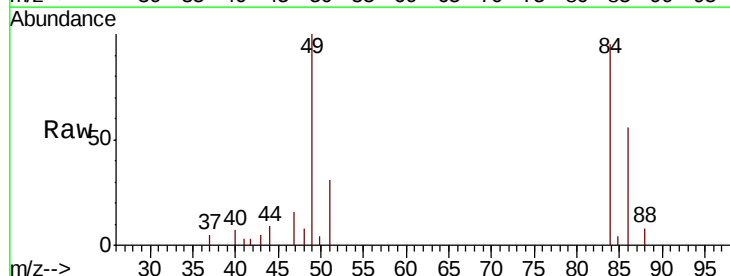
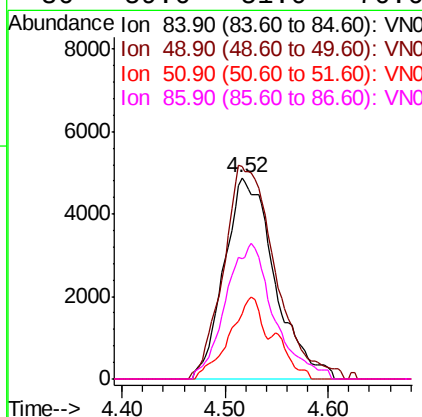
Instrument :
MSVOA_N
ClientSampleId :
2S-E1-(30)

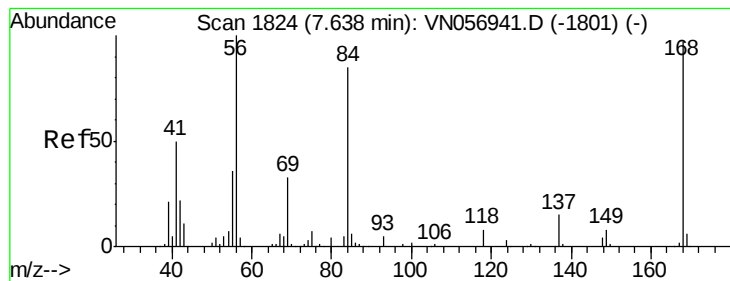
Tgt Ion: 43 Resp: 18852
Ion Ratio Lower Upper
43 100
74 12.4 19.7 29.5#



#20
Methylene Chloride
Concen: 2.662 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.02 min
Lab File: VN057099.D
Acq: 6 Aug 2019 13:34

Tgt Ion: 84 Resp: 16577
Ion Ratio Lower Upper
84 100
49 105.7 95.2 142.8
51 32.4 29.7 44.5
86 59.6 51.0 76.6





#31

Cyclohexane

Concen: 0.876 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057099.D

Acq: 6 Aug 2019 13:34

Instrument :

MSVOA_N

ClientSampled :

2S-E1-(30)

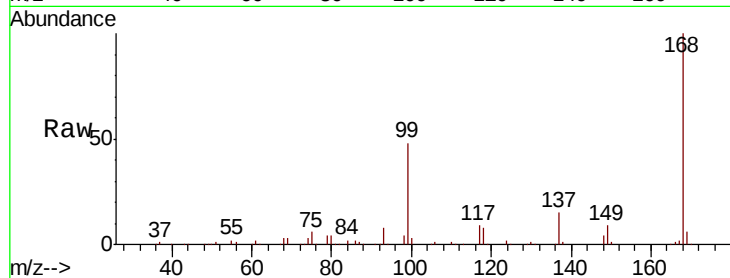
Tgt Ion: 56 Resp: 8585

Ion Ratio Lower Upper

56 100

69 197.2 26.2 39.2#

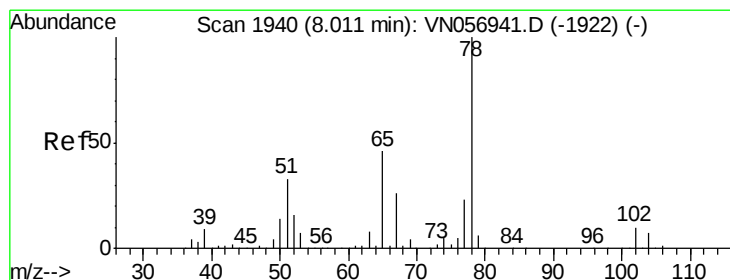
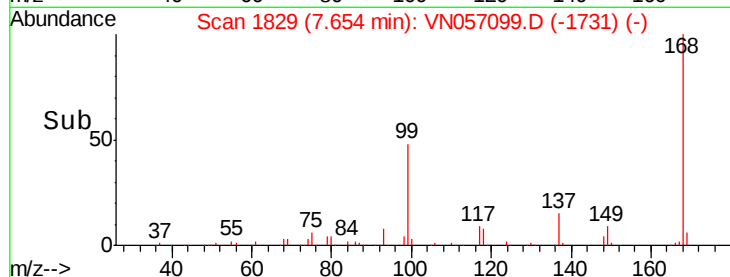
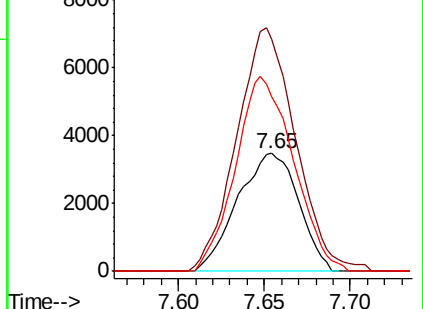
84 148.0 68.2 102.2#



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: 48.965 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057099.D

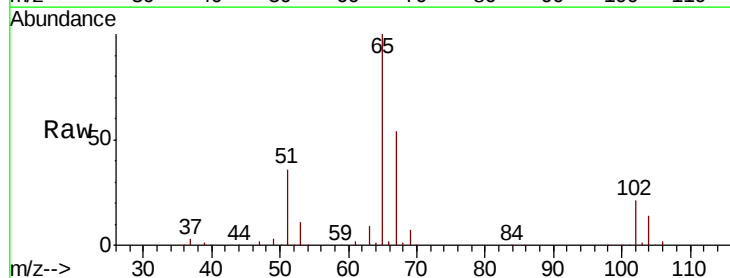
Acq: 6 Aug 2019 13:34

Tgt Ion: 65 Resp: 292153

Ion Ratio Lower Upper

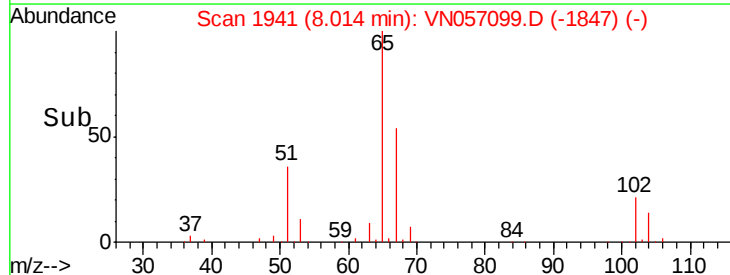
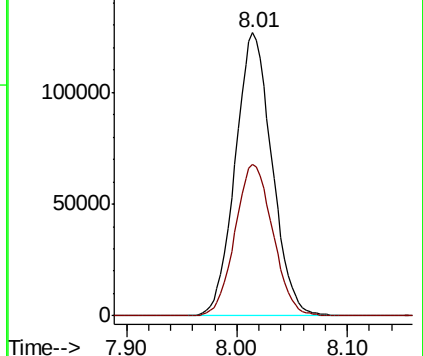
65 100

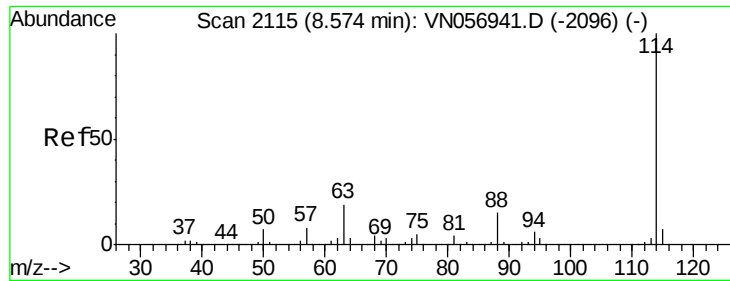
67 55.2 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

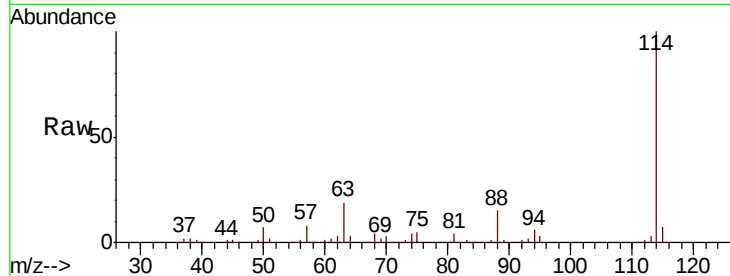




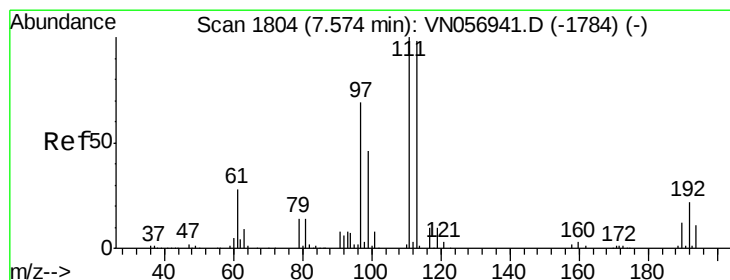
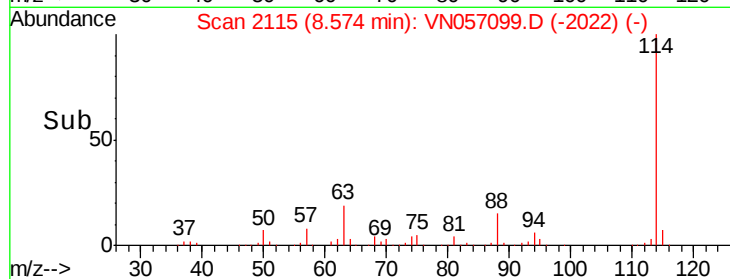
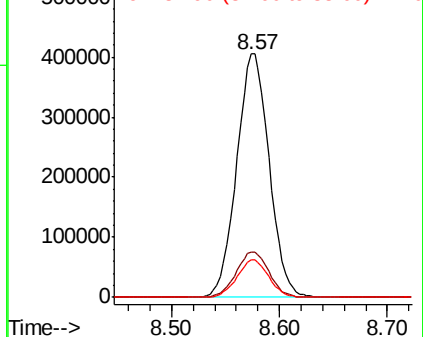
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057099.D
 Acq: 6 Aug 2019 13:34

Instrument :
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Tgt Ion:114 Resp: 850526
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 38.0
 88 15.2 0.0 30.0

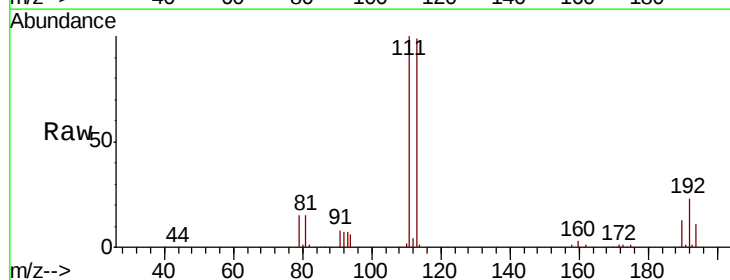


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

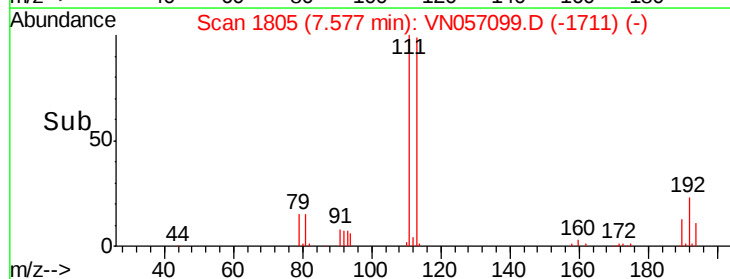
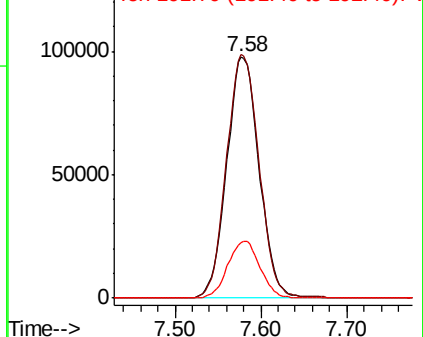


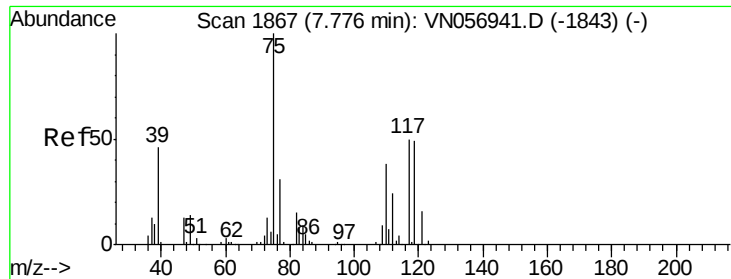
#35
 Dibromofluoromethane
 Concen: 46.928 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057099.D
 Acq: 6 Aug 2019 13:34

Tgt Ion:113 Resp: 255514
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.0 123.0
 192 23.5 18.4 27.6



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

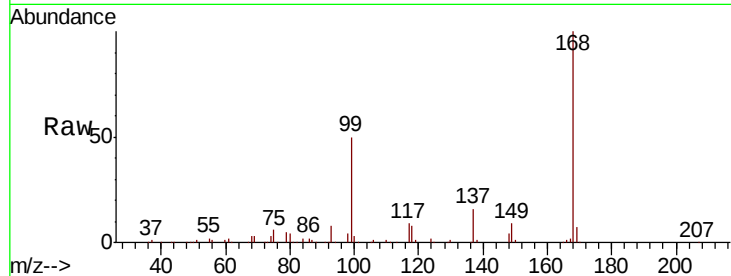




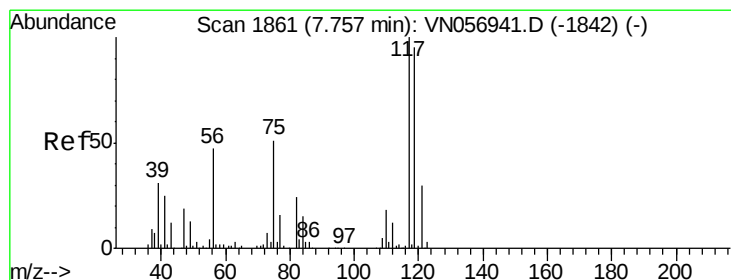
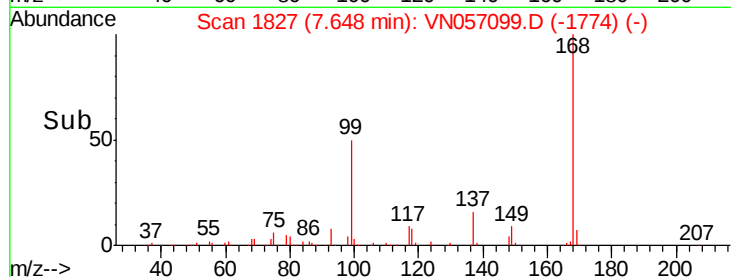
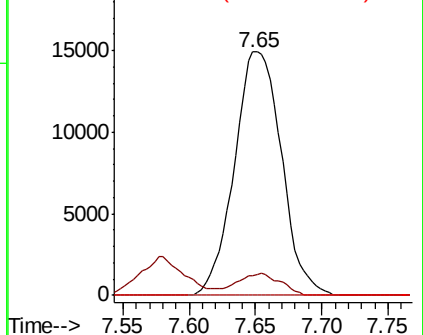
#36
 1,1-Dichloropropene
 Concen: 4.943 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057099.D
 Acq: 6 Aug 2019 13:34

Instrument :
 MSVOA_N
 ClientSampled :
 2S-E1-(30)

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.6	55.8#
77	0.0	25.2	37.8#

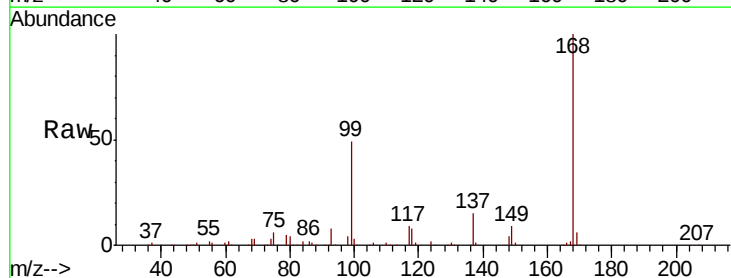


Abundance Ion 74.90 (74.60 to 75.60): VN056941.D (-1843) (-)
 Ion 109.90 (109.60 to 110.60): VN056941.D (-1843) (-)
 Ion 76.90 (76.60 to 77.60): VN056941.D (-1843) (-)

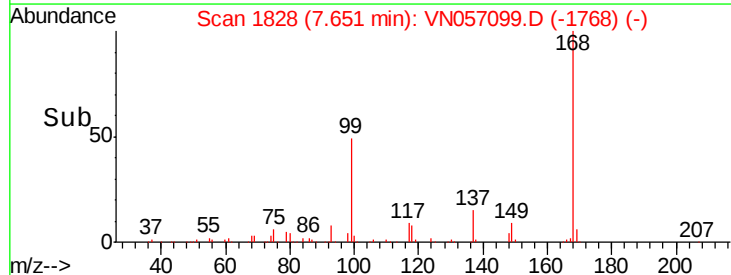
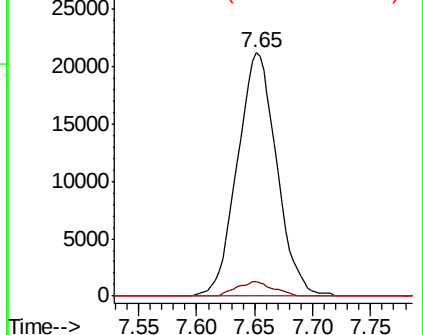


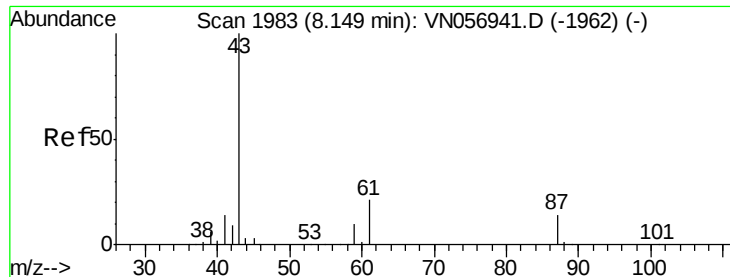
#38
 Carbon Tetrachloride
 Concen: 7.050 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057099.D
 Acq: 6 Aug 2019 13:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	75.3	112.9#
121	0.0	24.2	36.4#



Abundance Ion 116.80 (116.50 to 117.50): VN056941.D (-1842) (-)
 Ion 118.80 (118.50 to 119.50): VN056941.D (-1842) (-)
 Ion 120.80 (120.50 to 121.50): VN056941.D (-1842) (-)





#43

Isopropyl Acetate

Concen: 4.510 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.01 min

Lab File: VN057099.D

Acq: 6 Aug 2019 13:34

Instrument :

MSVOA_N

ClientSampleId :

2S-E1-(30)

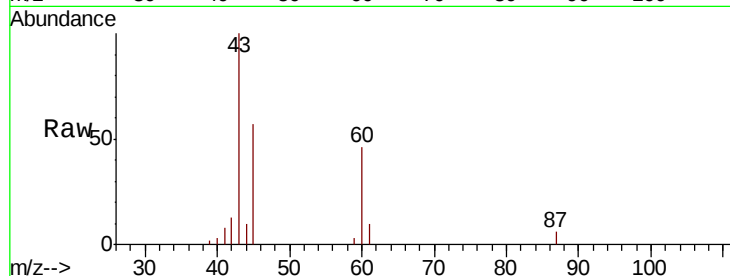
Tgt Ion: 43 Resp: 44682

Ion Ratio Lower Upper

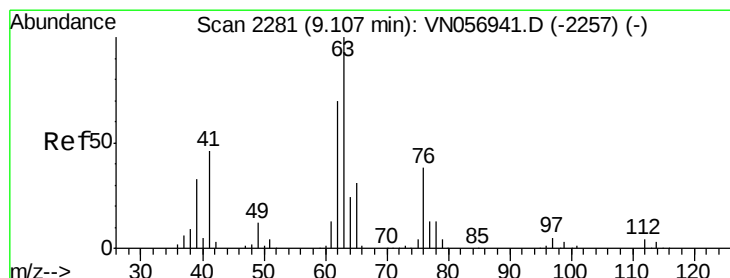
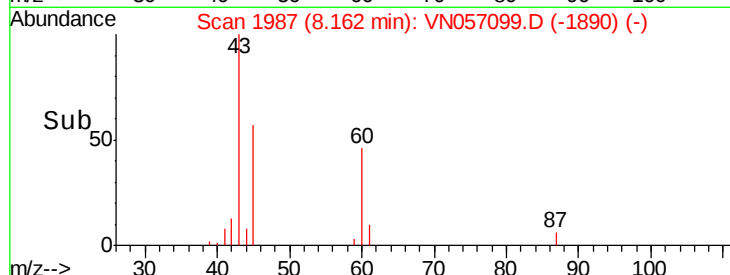
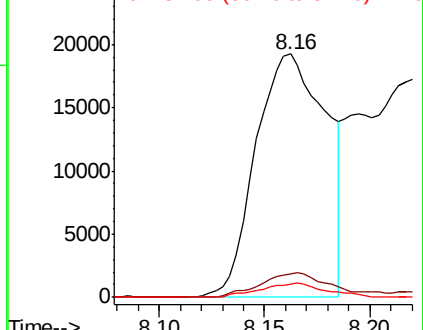
43 100

61 10.3 23.0 34.6#

87 5.4 11.7 17.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#45

1,2-Dichloropropane

Concen: 0.218 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN057099.D

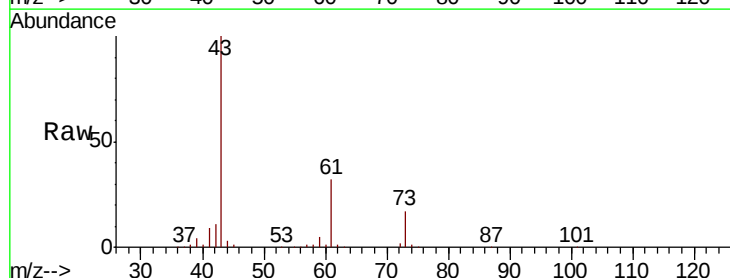
Acq: 6 Aug 2019 13:34

Tgt Ion: 63 Resp: 1346

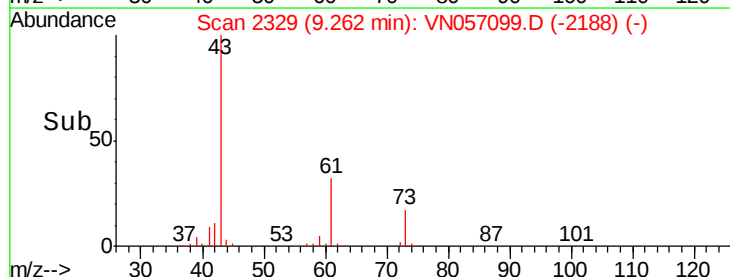
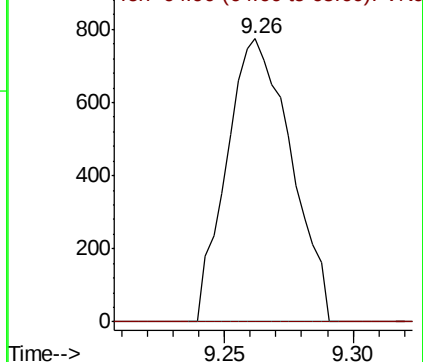
Ion Ratio Lower Upper

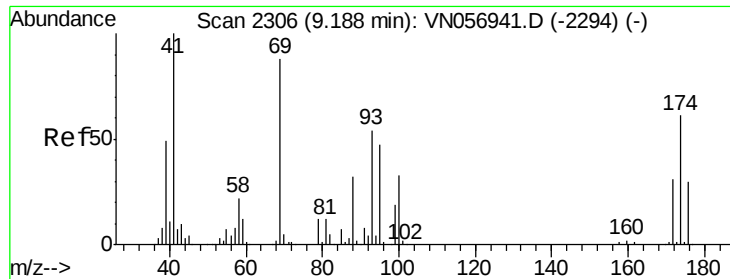
63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VNO
Ion 64.90 (64.60 to 65.60): VNO

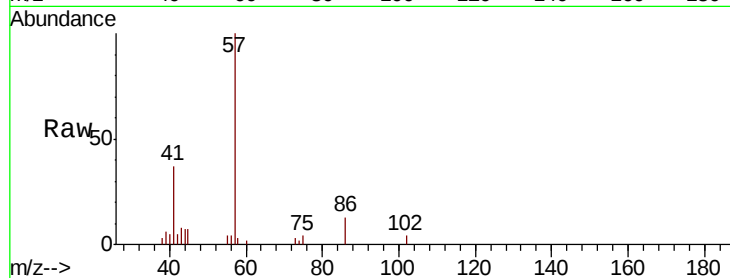




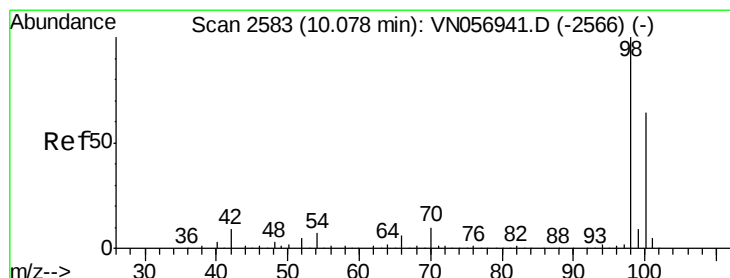
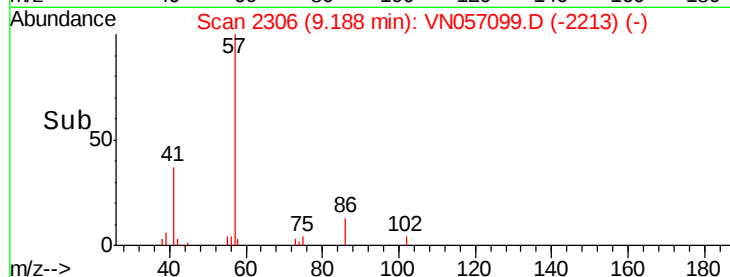
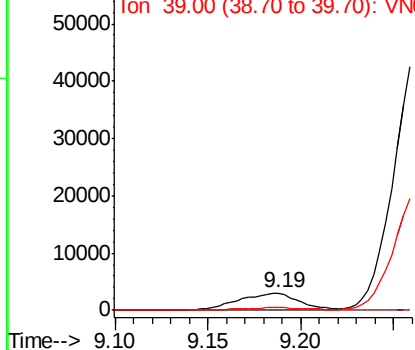
#48
Methyl methacrylate
Concen: 1.416 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. 0.00 min
Lab File: VN057099.D
Acq: 6 Aug 2019 13:34

Instrument :
MSVOA_N
ClientSampled :
2S-E1-(30)

Tgt Ion: 41 Resp: 6771
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.0#
39 0.0 39.9 59.9#

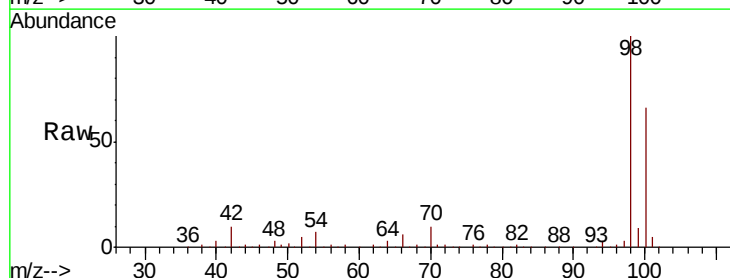


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

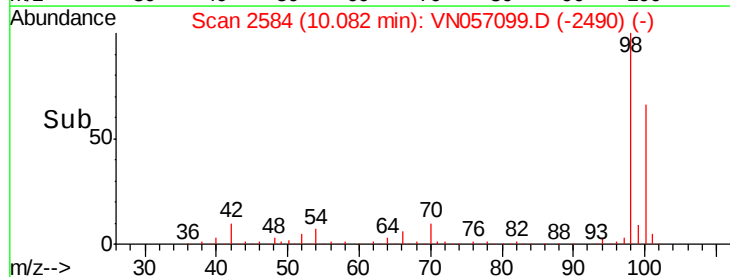
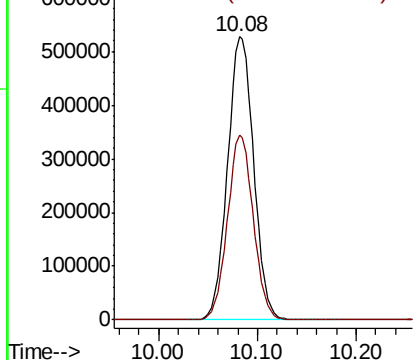


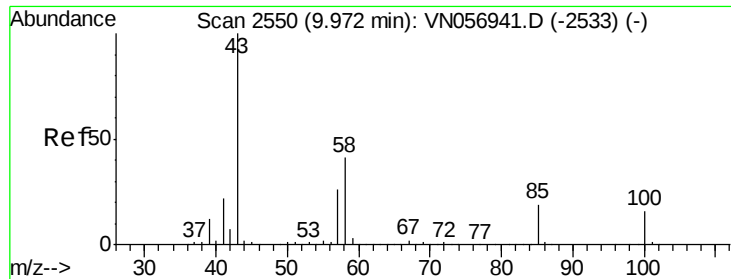
#50
Toluene-d8
Concen: 47.075 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN057099.D
Acq: 6 Aug 2019 13:34

Tgt Ion: 98 Resp: 977433
Ion Ratio Lower Upper
98 100
100 64.5 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

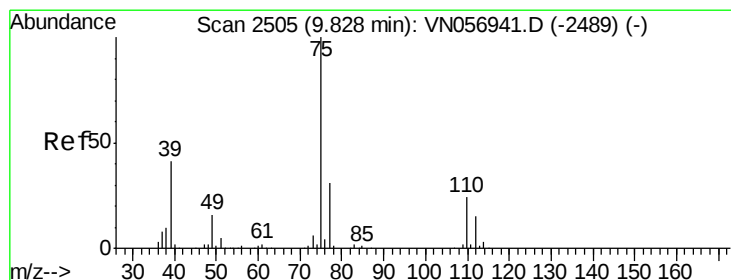
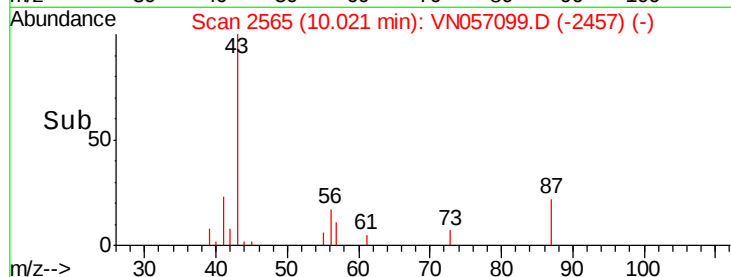
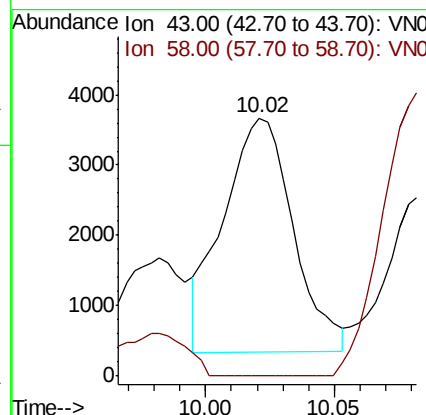
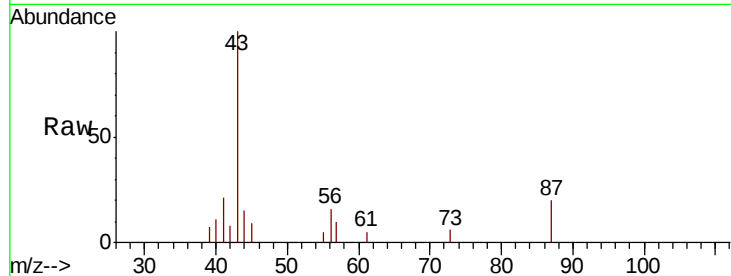




#51
 4-Methyl-2-Pentanone
 Concen: 1.071 ug/l
 RT: 10.02 min Scan# 2565
 Delta R.T. 0.05 min
 Lab File: VN057099.D
 Acq: 6 Aug 2019 13:34

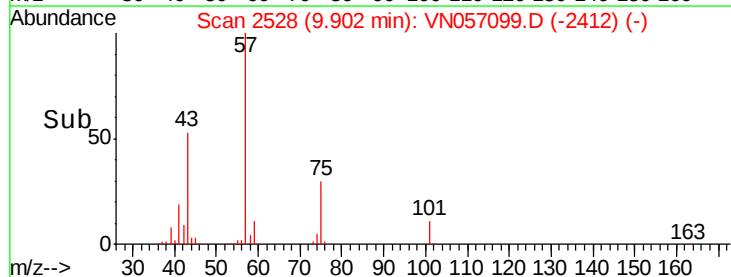
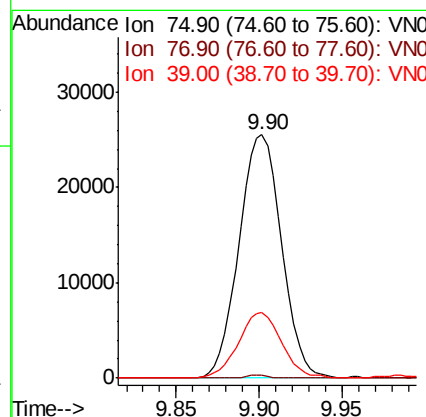
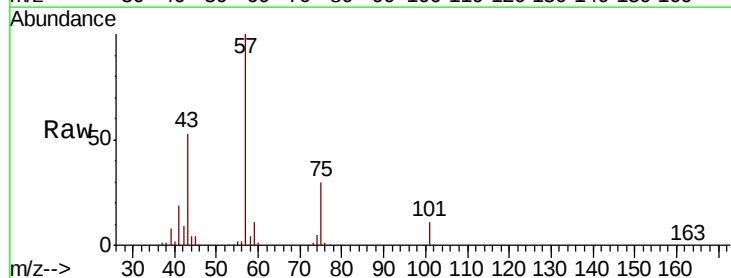
Instrument :
 MSVOA_N
 ClientSampleId :
 2S-E1-(30)

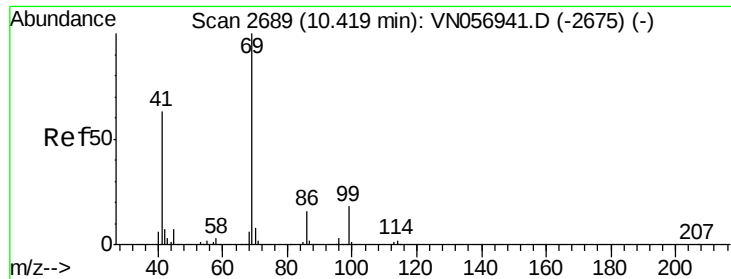
Tgt Ion: 43 Resp: 6306
 Ion Ratio Lower Upper
 43 100
 58 0.0 33.1 49.7#



#54
 cis-1,3-Dichloropropene
 Concen: 5.154 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057099.D
 Acq: 6 Aug 2019 13:34

Tgt Ion: 75 Resp: 45461
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.0 37.6#
 39 26.9 32.6 49.0#





#56

Ethyl methacrylate

Concen: 1.853 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN057099.D

Acq: 6 Aug 2019 13:34

Instrument :

MSVOA_N

ClientSampleId :

2S-E1-(30)

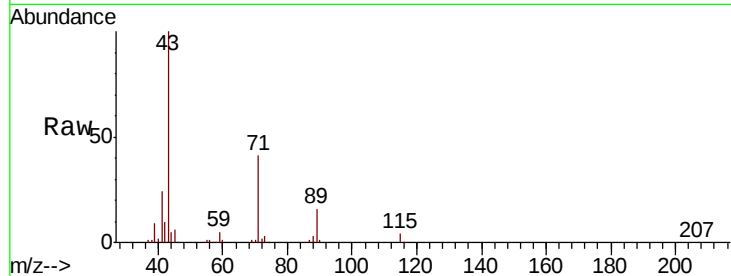
Tgt Ion: 69 Resp: 802

Ion Ratio Lower Upper

69 100

41 3712.2 49.2 73.8#

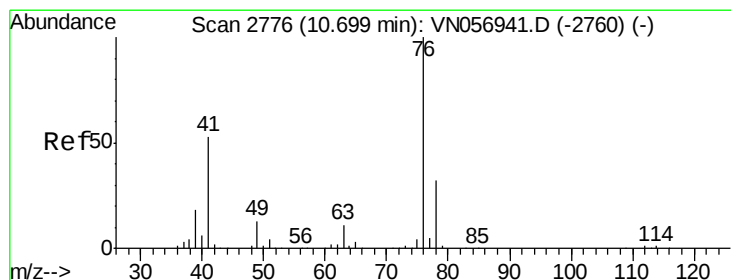
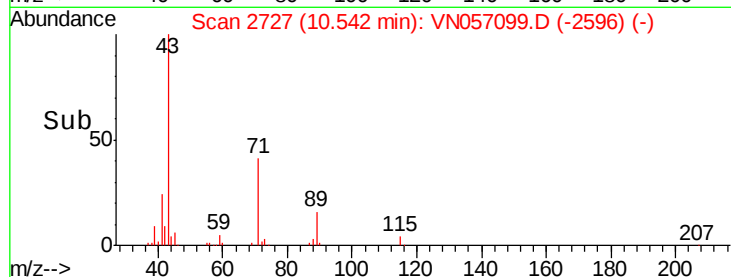
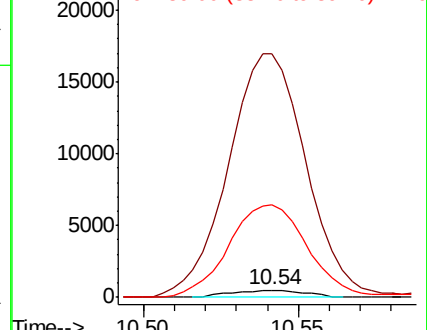
39 1424.3 23.1 34.7#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.935 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN057099.D

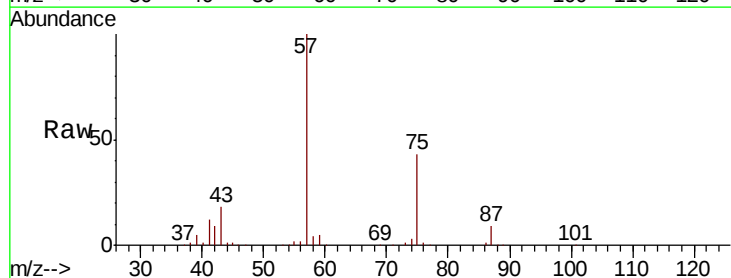
Acq: 6 Aug 2019 13:34

Tgt Ion: 76 Resp: 8613

Ion Ratio Lower Upper

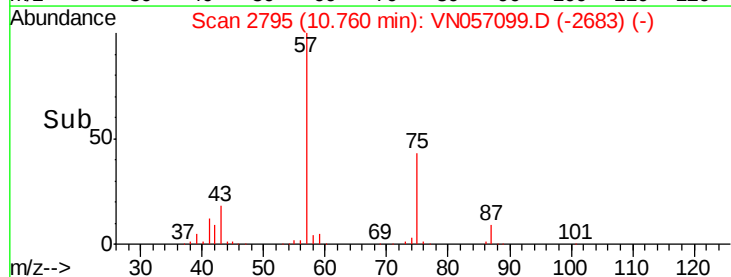
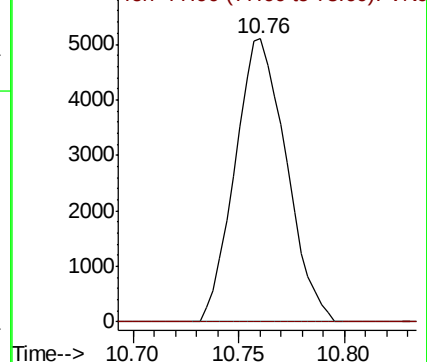
76 100

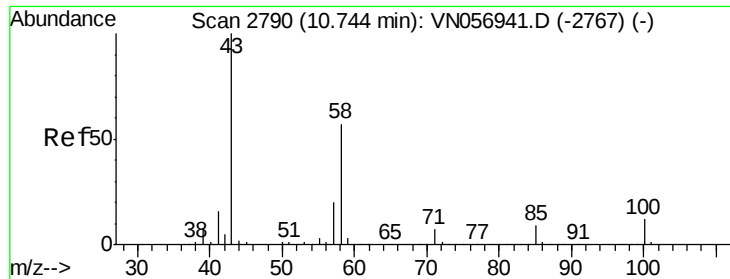
78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

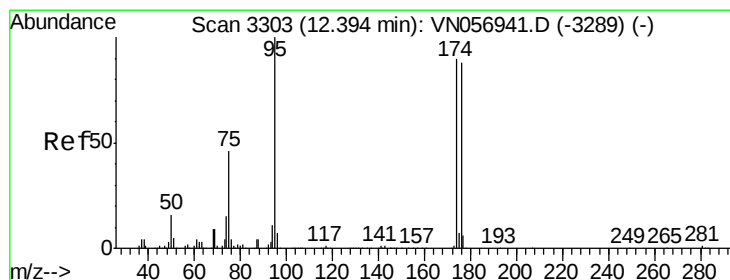
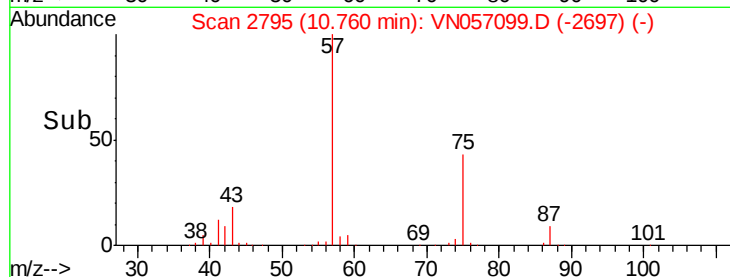
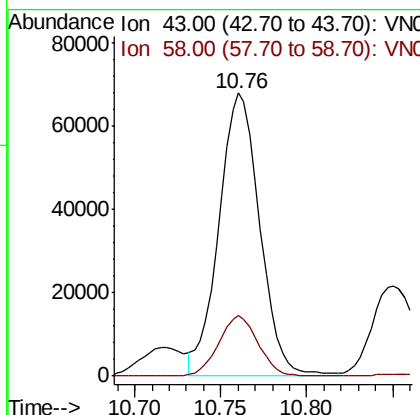
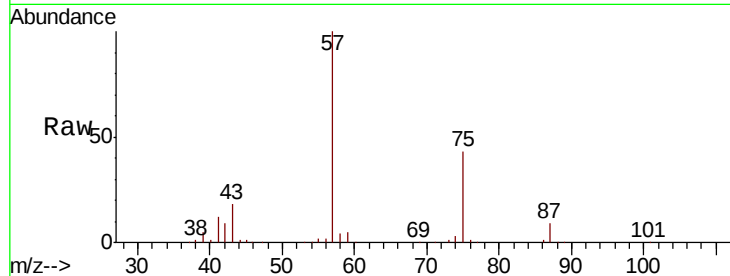




#59
2-Hexanone
Concen: 26.809 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.02 min
Lab File: VN057099.D
Acq: 6 Aug 2019 13:34

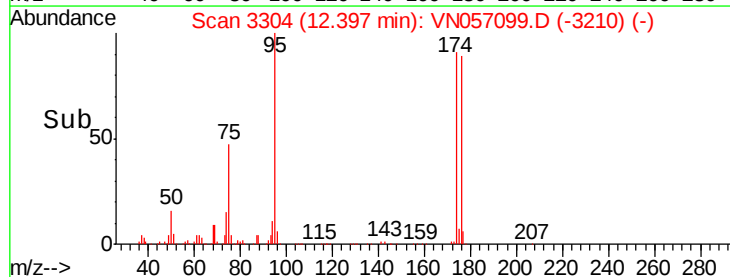
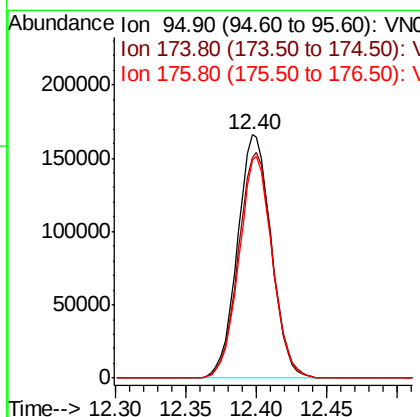
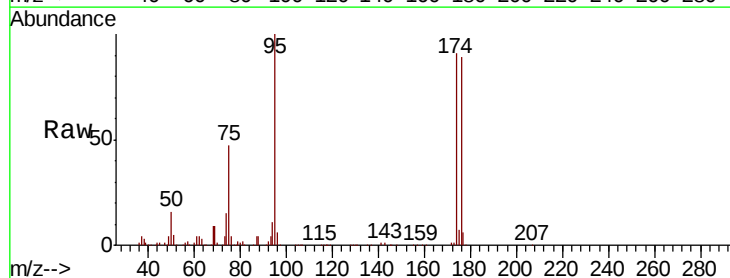
Instrument :
MSVOA_N
ClientSampled :
2S-E1-(30)

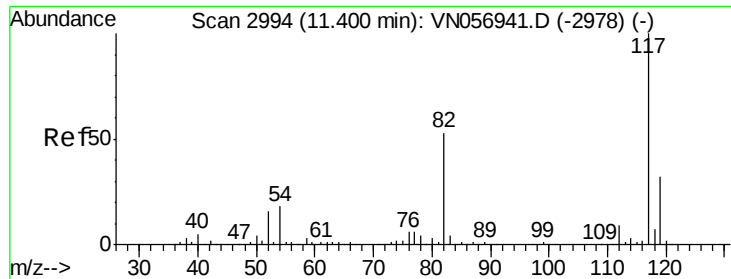
Tgt Ion: 43 Resp: 111310
Ion Ratio Lower Upper
43 100
58 20.9 28.5 85.5#



#62
4-Bromofluorobenzene
Concen: 41.098 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN057099.D
Acq: 6 Aug 2019 13:34

Tgt Ion: 95 Resp: 277800
Ion Ratio Lower Upper
95 100
174 93.8 0.0 182.2
176 89.8 0.0 179.4

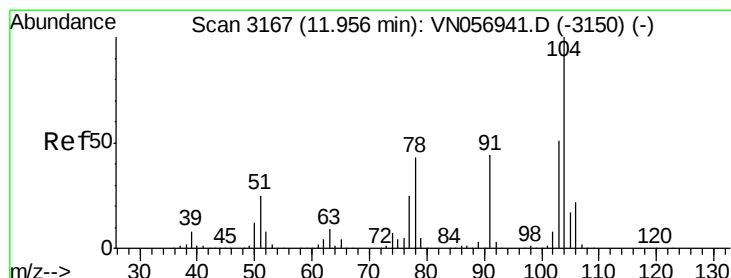
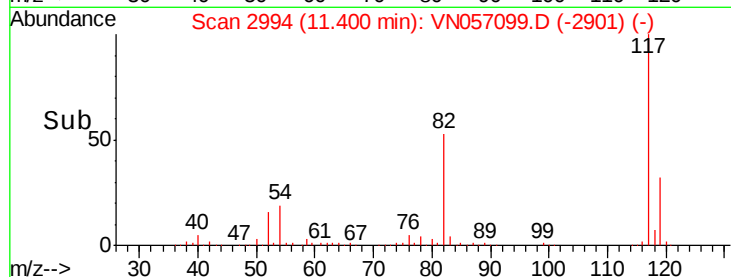
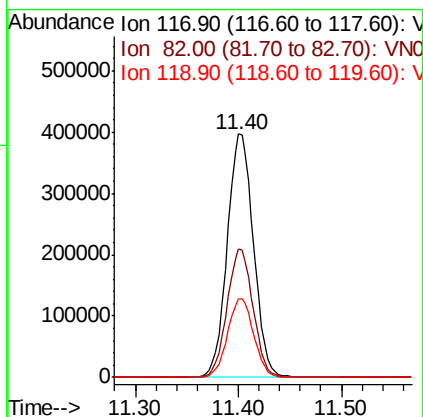
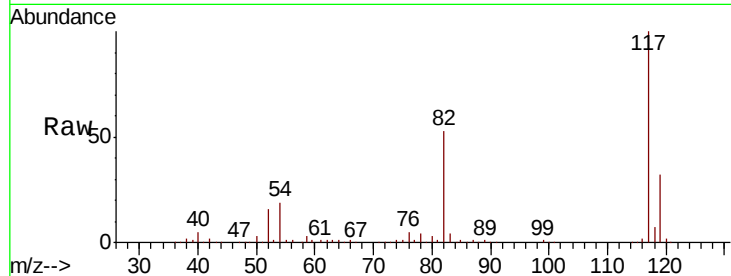




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN057099.D
Acq: 6 Aug 2019 13:34

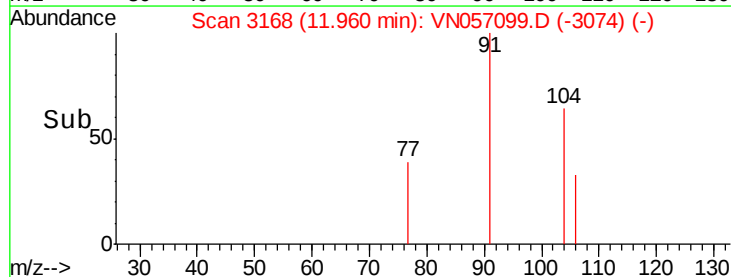
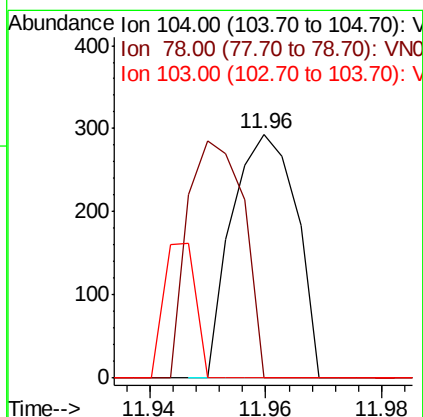
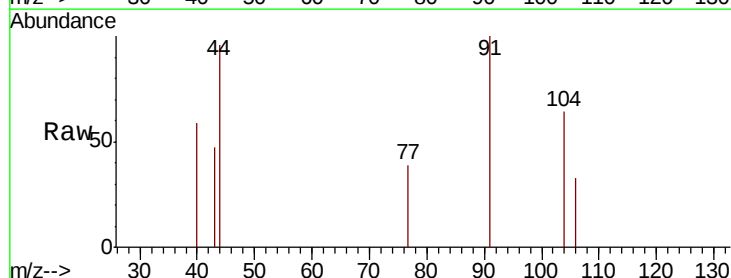
Instrument :
MSVOA_N
ClientSampled :
2S-E1-(30)

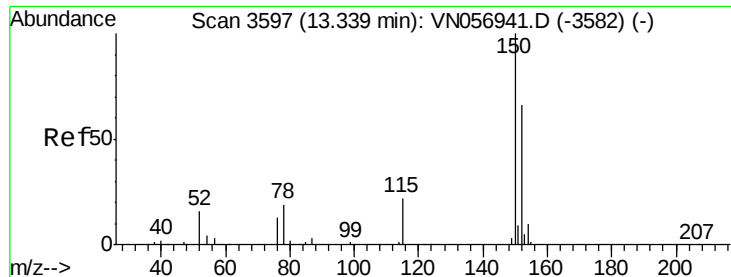
Tgt Ion:117 Resp: 701808
Ion Ratio Lower Upper
117 100
82 52.6 42.2 63.4
119 32.1 25.8 38.6



#70
Styrene
Concen: 1.881 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VN057099.D
Acq: 6 Aug 2019 13:34

Tgt Ion:104 Resp: 225
Ion Ratio Lower Upper
104 100
78 84.9 38.1 57.1#
103 27.6 44.3 66.5#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN057099.D

Acq: 6 Aug 2019 13:34

Instrument :

MSVOA_N

ClientSampleId :

2S-E1-(30)

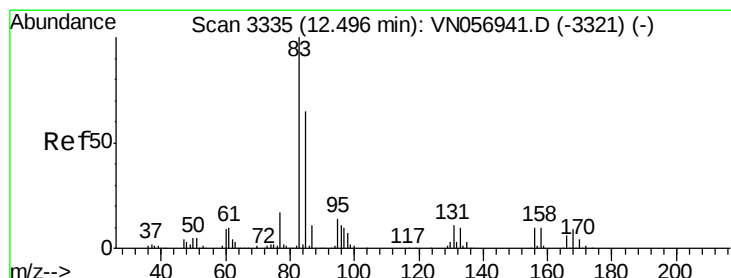
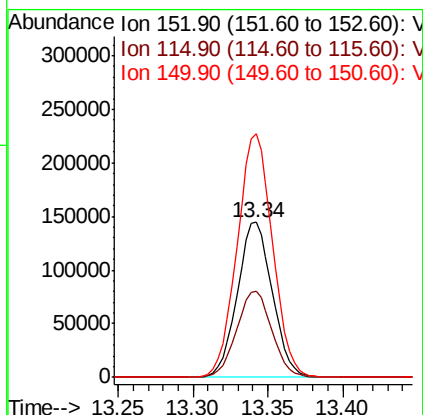
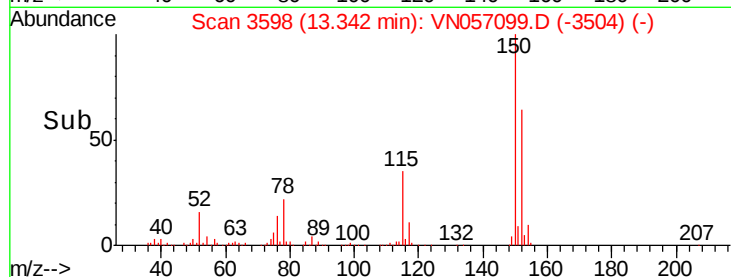
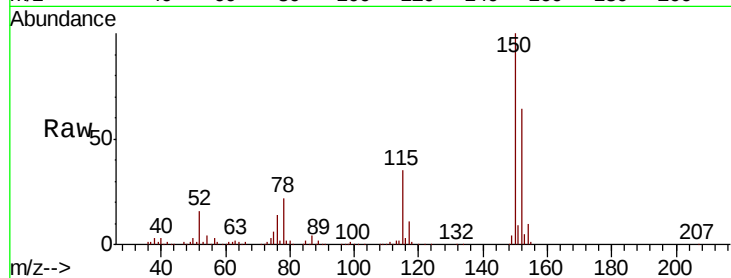
Tgt Ion:152 Resp: 234554

Ion Ratio Lower Upper

152 100

115 56.0 28.2 84.6

150 159.2 0.0 349.4



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.39 min Scan# 3302

Delta R.T. -0.11 min

Lab File: VN057099.D

Acq: 6 Aug 2019 13:34

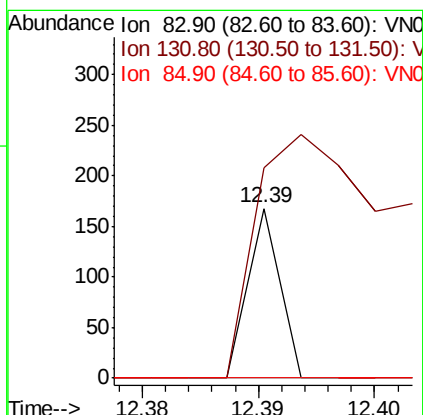
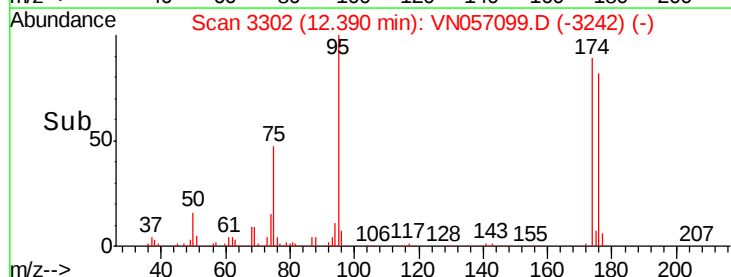
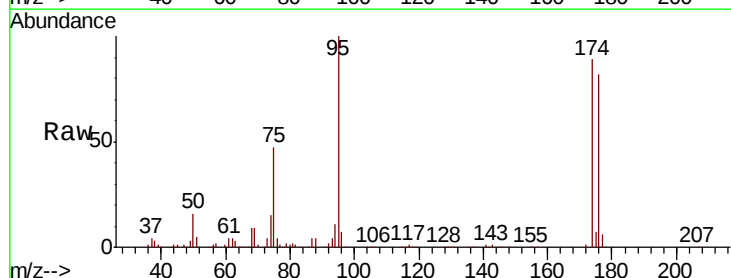
Tgt Ion: 83 Resp: 32

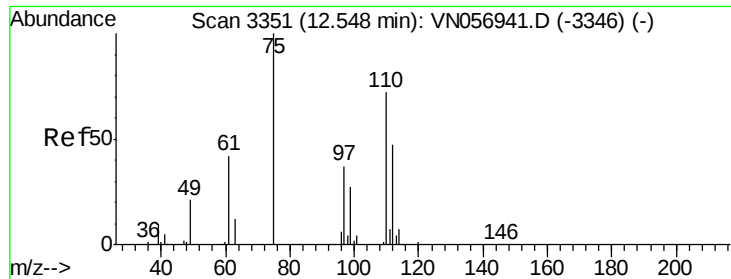
Ion Ratio Lower Upper

83 100

131 809.4 5.3 16.1#

85 0.0 32.5 97.4#

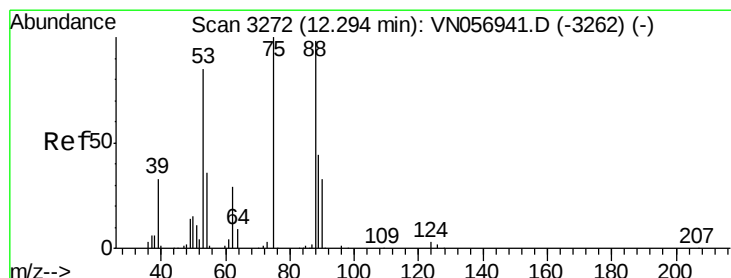
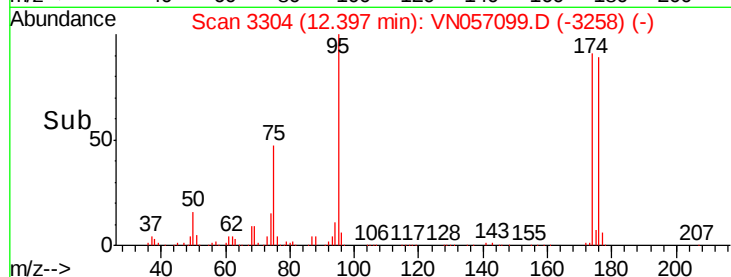
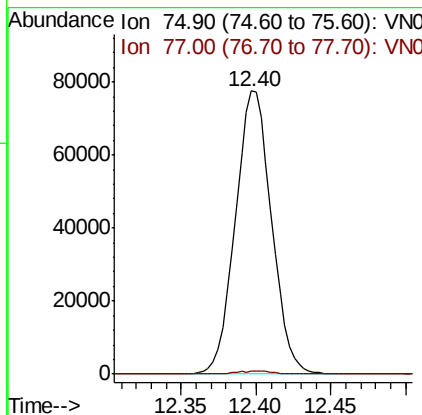
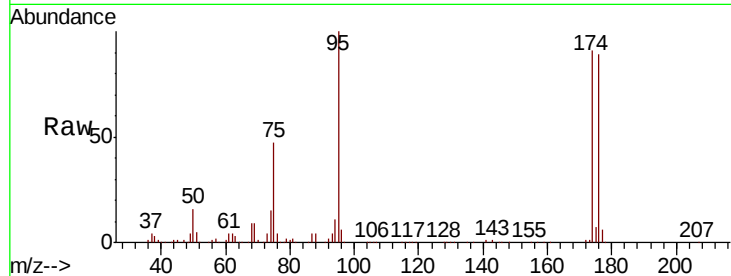




#76
 1,2,3-Trichloropropane
 Concen: 27.310 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.15 min
 Lab File: VN057099.D
 Acq: 6 Aug 2019 13:34

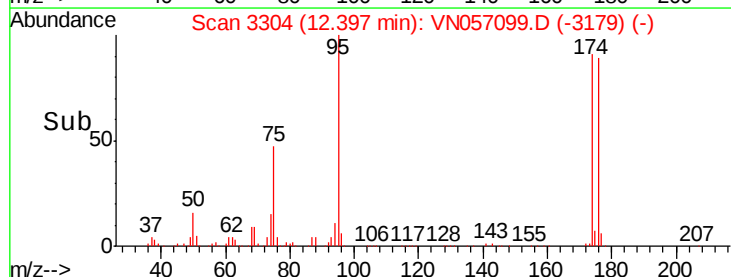
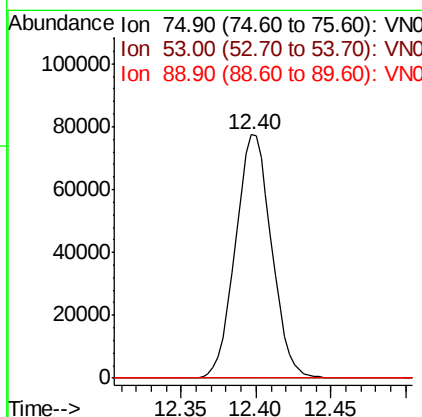
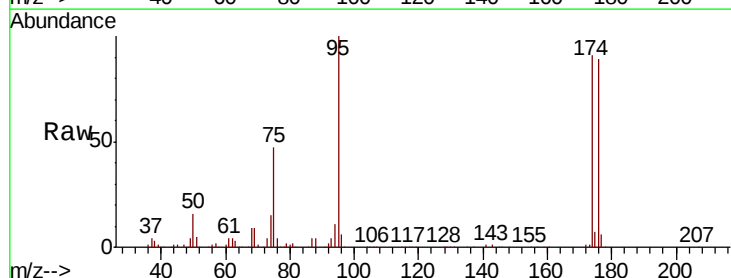
Instrument :
 MSVOA_N
 ClientSampleId :
 2S-E1-(30)

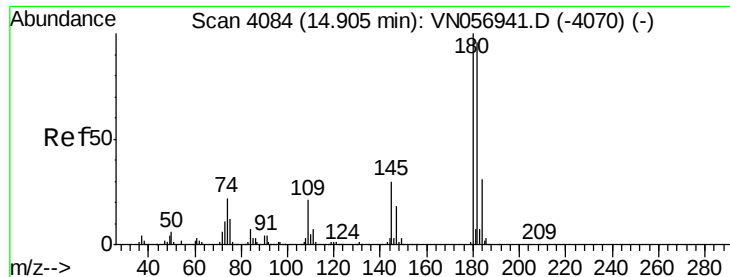
Tgt Ion: 75 Resp: 130089
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 87.747 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN057099.D
 Acq: 6 Aug 2019 13:34

Tgt Ion: 75 Resp: 130089
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.3 103.9#
 89 0.0 35.8 53.6#

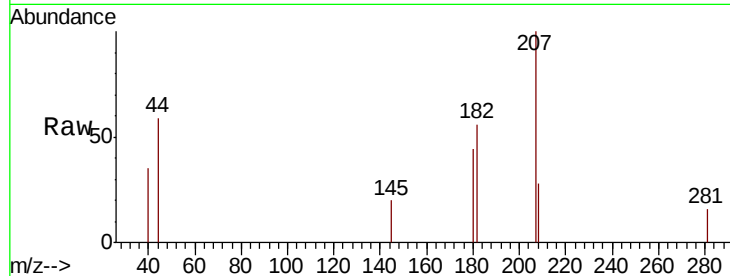




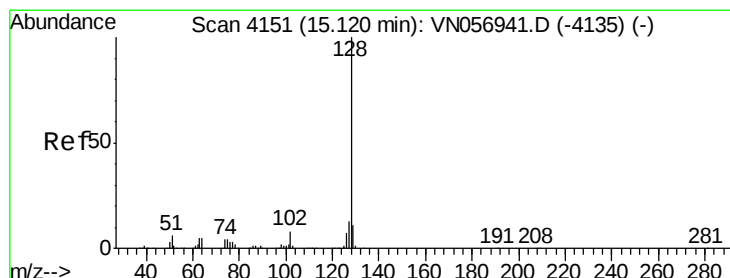
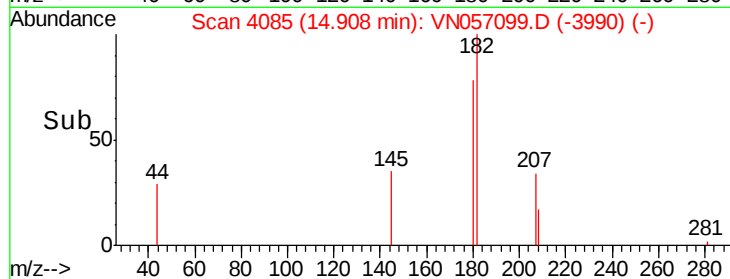
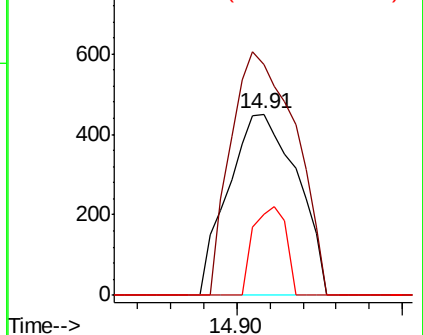
#93
 1,2,4-Trichlorobenzene
 Concen: 2.862 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN057099.D
 Acq: 6 Aug 2019 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 2S-E1-(30)

Tgt Ion:180 Resp: 652
 Ion Ratio Lower Upper
 180 100
 182 125.9 47.6 142.8
 145 22.9 14.2 42.8

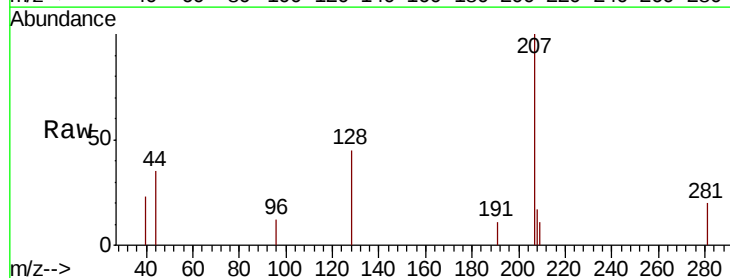


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

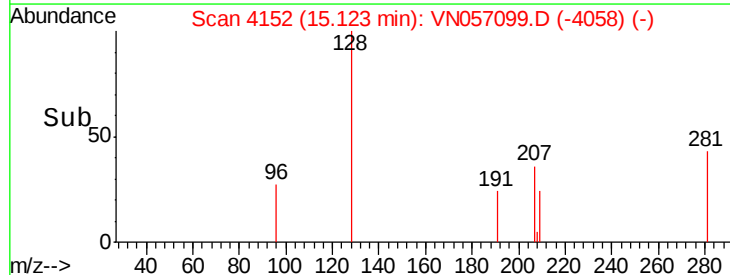
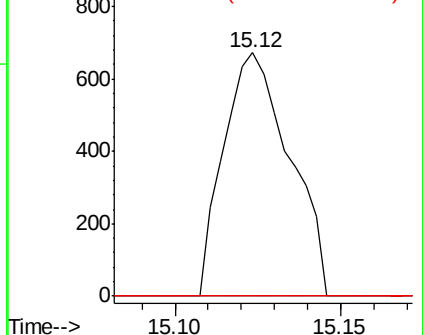


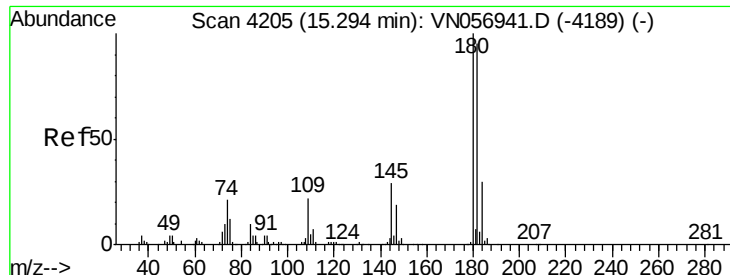
#95
 Naphthalene
 Concen: 3.675 ug/l
 RT: 15.12 min Scan# 4152
 Delta R.T. 0.00 min
 Lab File: VN057099.D
 Acq: 6 Aug 2019 13:34

Tgt Ion:128 Resp: 934
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.0 15.0#
 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: 2.211 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. 0.00 min
 Lab File: VN057099.D
 Acq: 6 Aug 2019 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 2S-E1-(30)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.7	48.0	144.2
145	0.0	15.0	45.0#

