

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058729.D
 Acq On : 12 Oct 2019 2:17
 Operator : JC/SP
 Sample : K5323-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

Quant Time: Oct 12 05:47:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	411837	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	653790	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	600769	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	247816	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	295258	51.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.42%	
35) Dibromofluoromethane	7.57	113	213108	52.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.54%	
50) Toluene-d8	10.09	98	835708	51.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.50%	
62) 4-Bromofluorobenzene	12.40	95	280692	45.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.84%	

Target Compounds

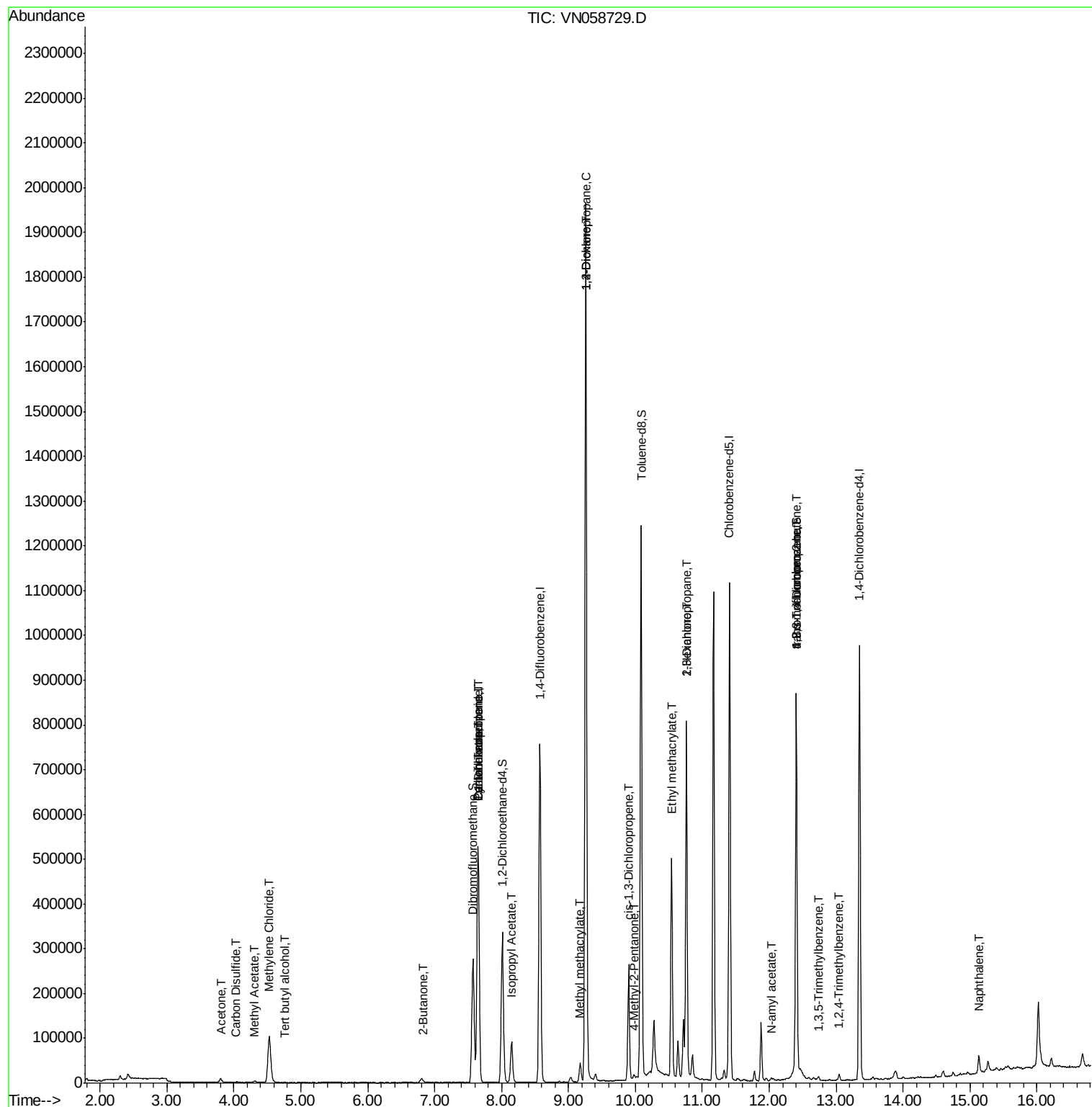
						Qvalue
11) Tert butyl alcohol	4.76	59	257	0.275	ug/l #	72
16) Acetone	3.80	43	14735	6.173	ug/l #	89
17) Carbon Disulfide	4.03	76	2556	0.202	ug/l #	75
18) Methyl Acetate	4.31	43	4846	0.800	ug/l #	89
20) Methylene Chloride	4.53	84	76574	15.350	ug/l	99
25) 2-Butanone	6.83	43	4702	1.363	ug/l	100
31) Cyclohexane	7.64	56	9378	1.109	ug/l #	11
36) 1,1-Dichloropropene	7.65	75	34329	5.193	ug/l #	50
38) Carbon Tetrachloride	7.65	117	42026	6.523	ug/l #	16
43) Isopropyl Acetate	8.15	43	109138	9.583	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	2331	0.459	ug/l #	45
48) Methyl methacrylate	9.17	41	5937	1.150	ug/l #	14
49) 1,4-Dioxane	9.26	88	169	2.116	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	6837	1.069	ug/l	90
54) cis-1,3-Dichloropropene	9.90	75	43022	5.384	ug/l #	67
56) Ethyl methacrylate	10.54	69	1991	0.287	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	8174	1.009	ug/l #	42
59) 2-Hexanone	10.76	43	118098	23.893	ug/l #	52
74) N-amyl acetate	12.03	43	4194	0.520	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	153845	28.299	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	4014	0.262	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	153845	75.803	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.05	105	8606	0.566	ug/l	97
95) Naphthalene	15.13	128	26981	1.961	ug/l	99

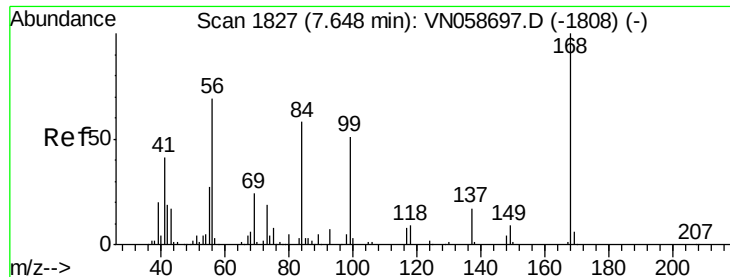
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058729.D

Acq: 12 Oct 2019 2:17

Instrument :

MSVOA_N

ClientSampled :

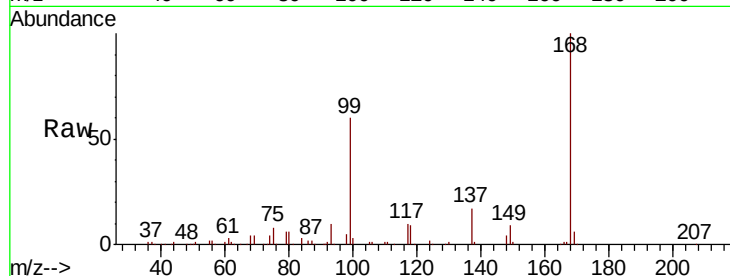
TP-4

Tot Ion:168 Resp: 411837

Ion Ratio Lower Upper

168 100

99 60.0 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): VN058729.D

Ion 98.90 (98.60 to 99.60): VN058729.D

7.65

200000

150000

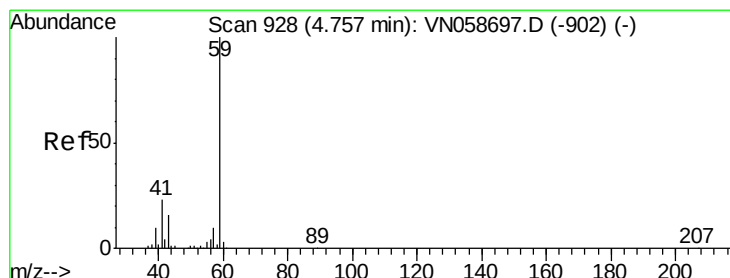
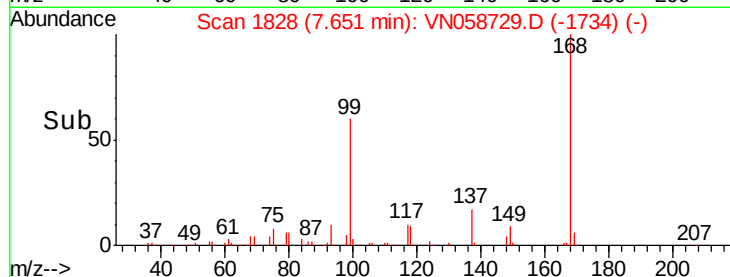
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.275 ug/l

RT: 4.76 min Scan# 930

Delta R.T. 0.01 min

Lab File: VN058729.D

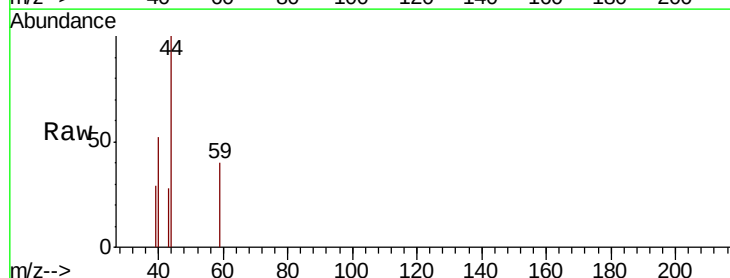
Acq: 12 Oct 2019 2:17

Tgt Ion: 59 Resp: 257

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN058729.D

Ion 57.00 (56.70 to 57.70): VN058729.D

4.76

250

200

150

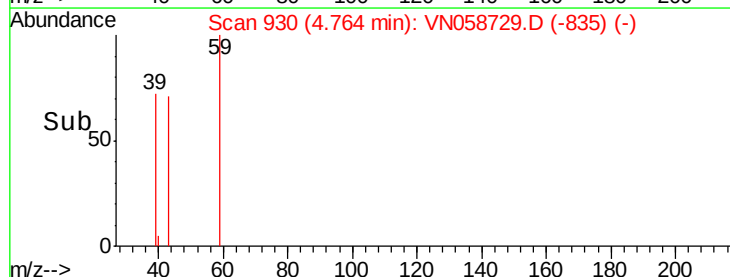
100

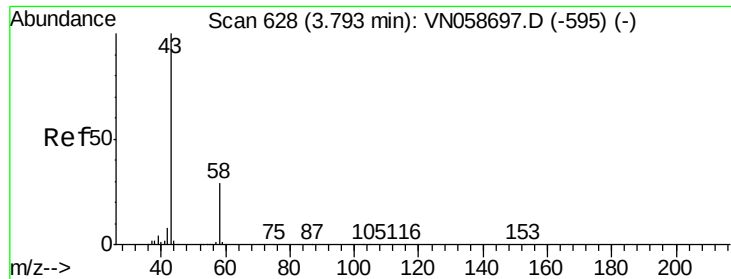
50

0

4.75 4.76 4.77 4.78

Time-->

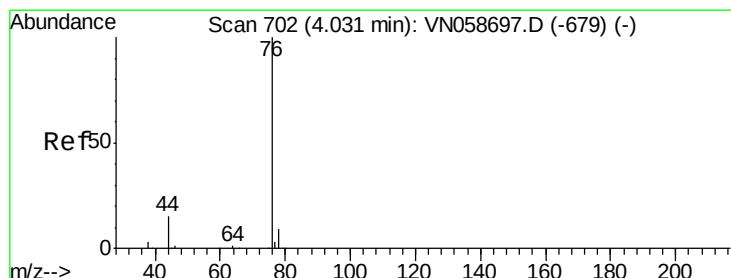
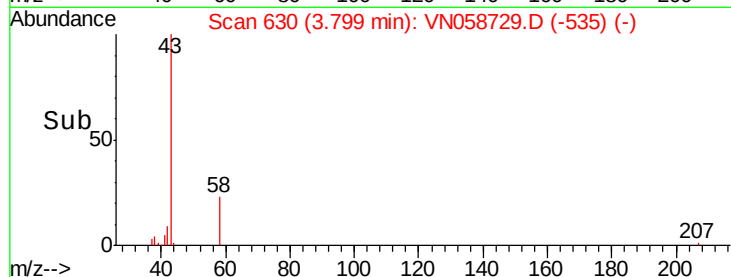
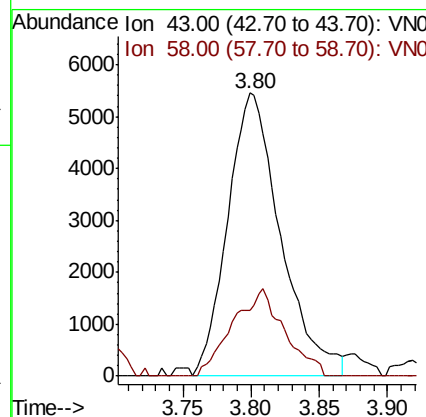
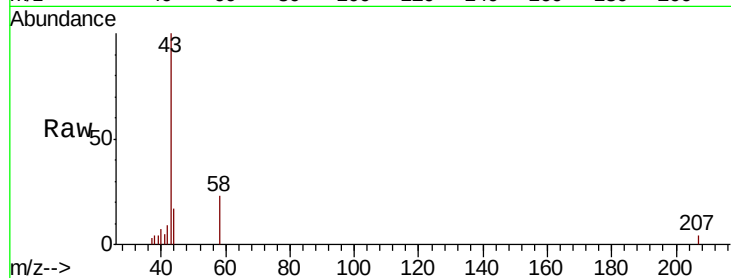




#16
Acetone
Concen: 6.173 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.01 min
Lab File: VN058729.D
Acq: 12 Oct 2019 2:17

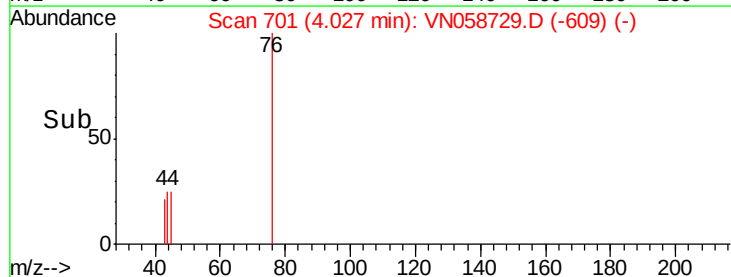
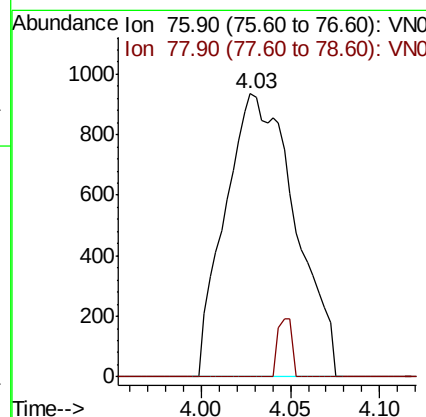
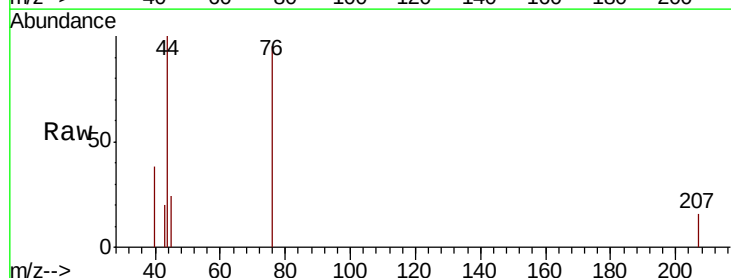
Instrument :
MSVOA_N
ClientSampled :
TP-4

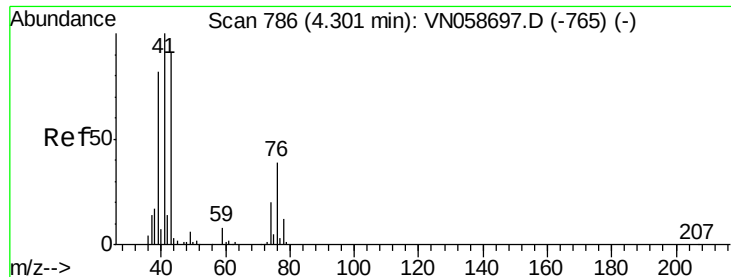
Tot Ion: 43 Resp: 14735
Ion Ratio Lower Upper
43 100
58 23.2 23.3 34.9#



#17
Carbon Disulfide
Concen: 0.202 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN058729.D
Acq: 12 Oct 2019 2:17

Tgt Ion: 76 Resp: 2556
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#

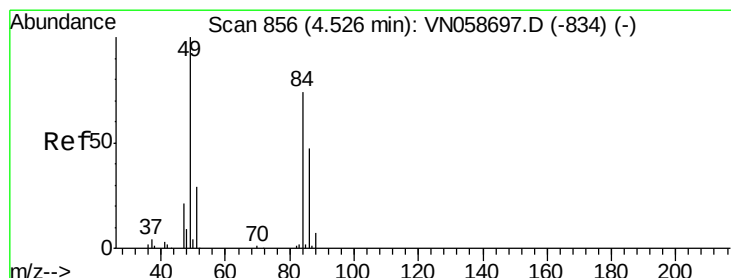
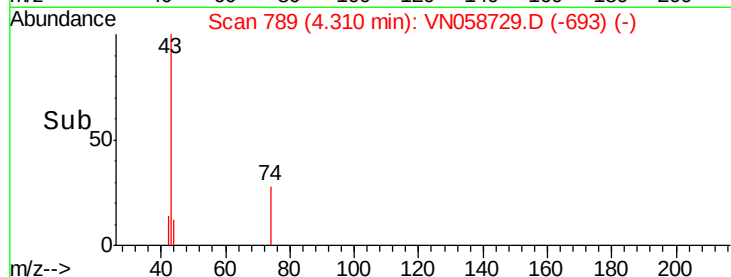
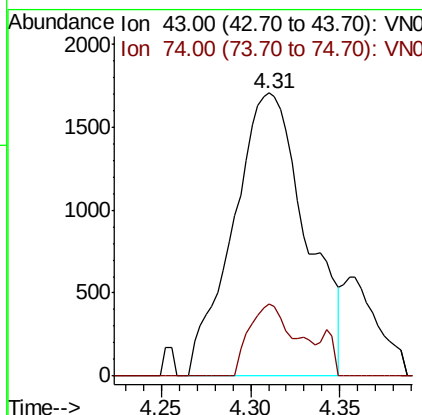
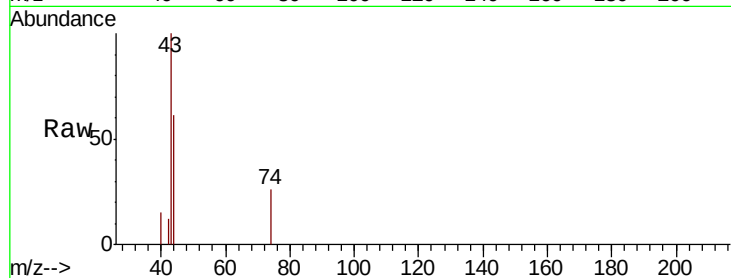




#18
Methvl Acetate
Concen: 0.800 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN058729.D
Acq: 12 Oct 2019 2:17

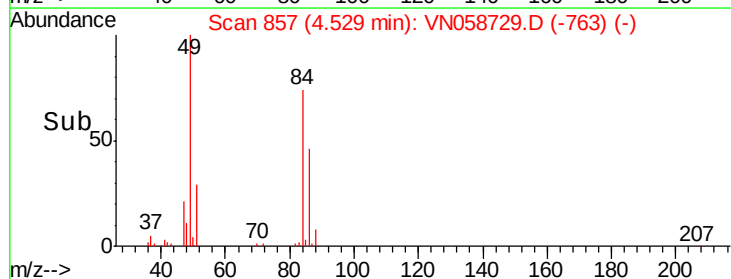
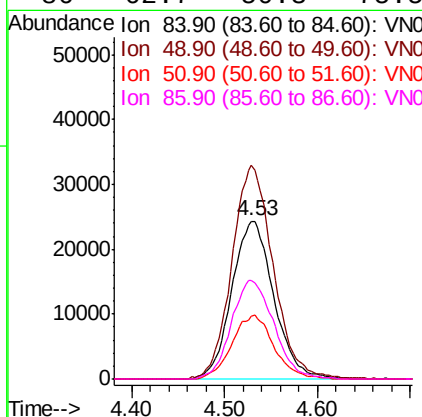
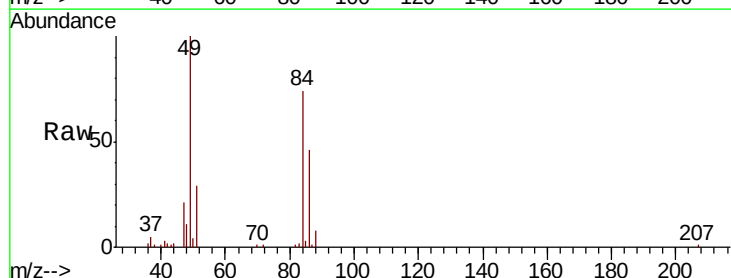
Instrument :
MSVOA_N
ClientSampleId :
TP-4

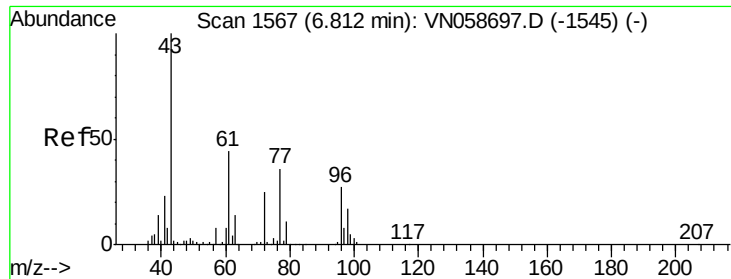
Tot Ion: 43 Resp: 4846
Ion Ratio Lower Upper
43 100
74 16.3 17.2 25.8#



#20
Methylene Chloride
Concen: 15.350 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058729.D
Acq: 12 Oct 2019 2:17

Tgt Ion: 84 Resp: 76574
Ion Ratio Lower Upper
84 100
49 135.3 107.6 161.4
51 39.4 31.4 47.0
86 62.7 50.3 75.5

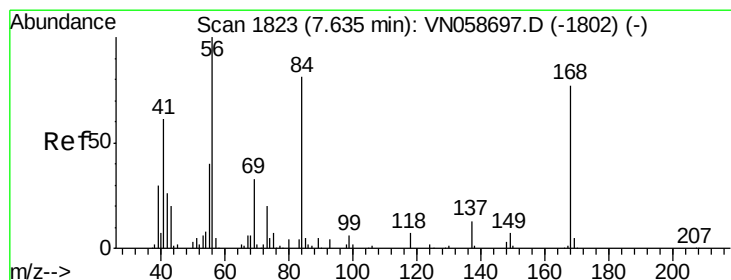
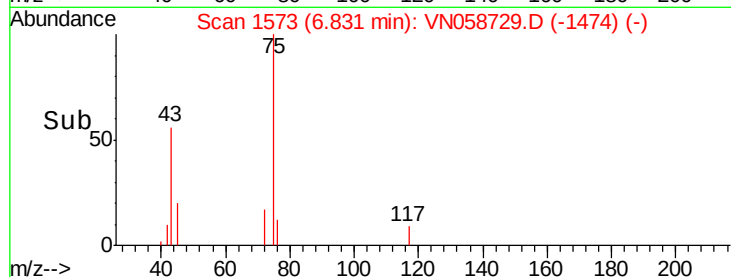
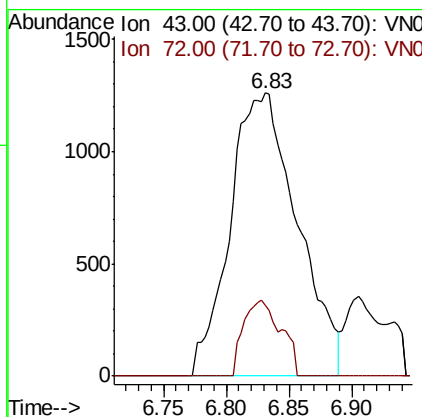
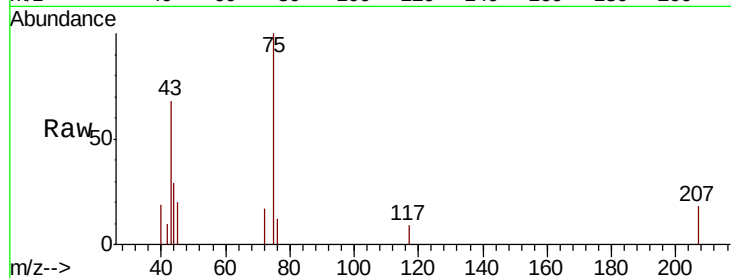




#25
2-Butanone
Concen: 1.363 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN058729.D
Acq: 12 Oct 2019 2:17

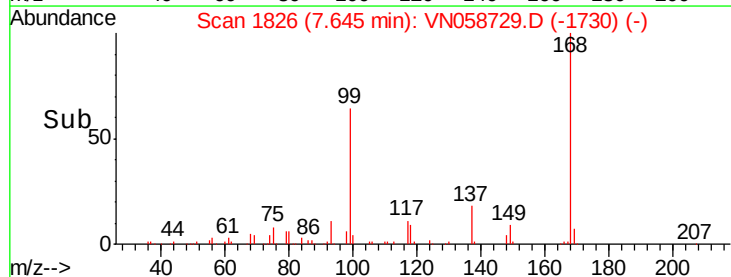
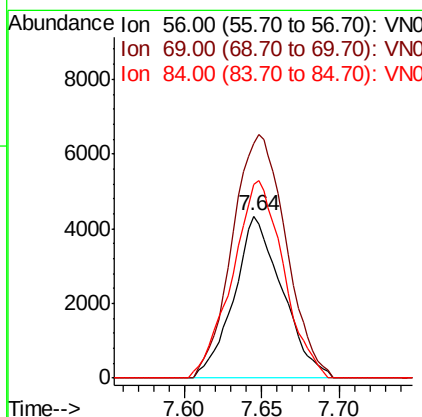
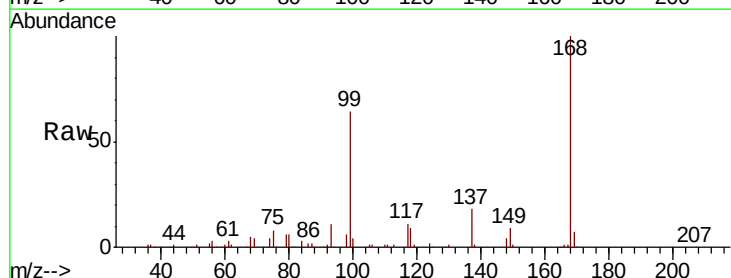
Instrument :
MSVOA_N
ClientSampled :
TP-4

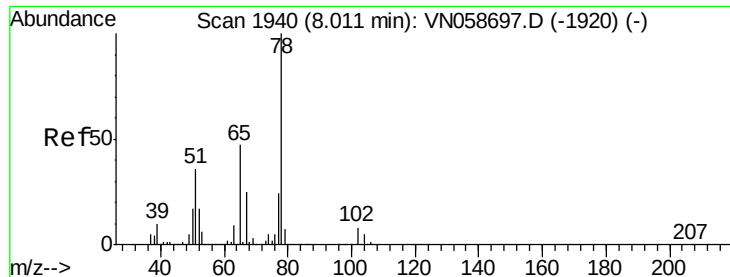
Tot Ion: 43 Resp: 4702
Ion Ratio Lower Upper
43 100
72 25.0 20.2 30.2



#31
Cyclohexane
Concen: 1.109 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058729.D
Acq: 12 Oct 2019 2:17

Tgt Ion: 56 Resp: 9378
Ion Ratio Lower Upper
56 100
69 145.4 26.2 39.4#
84 119.8 64.9 97.3#

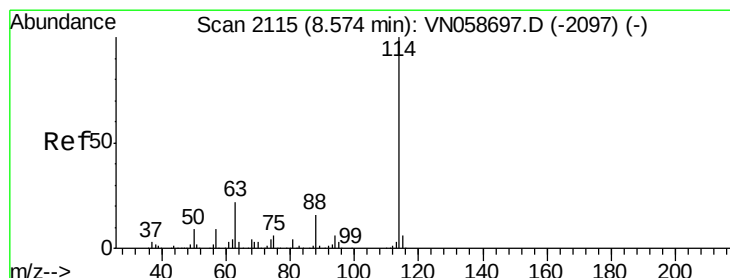
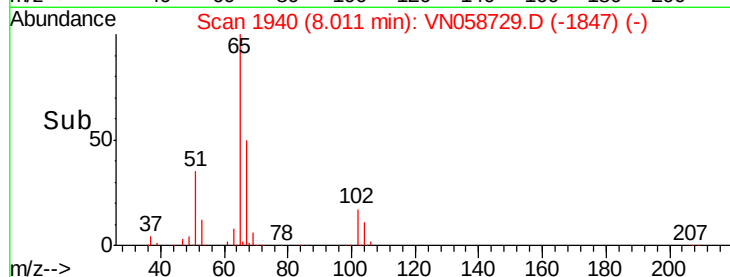
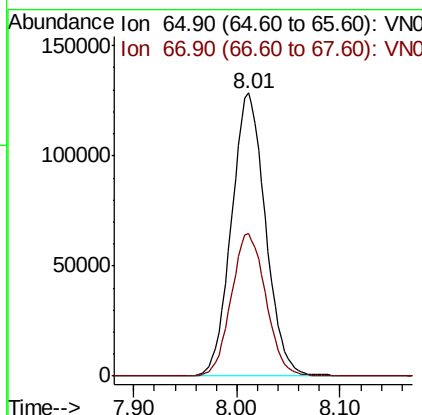
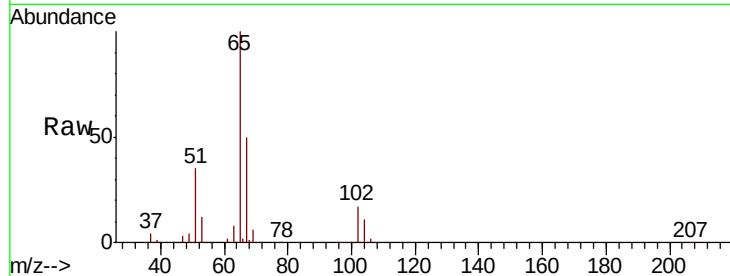




#33
 1,2-Dichloroethane-d4
 Concen: 51.210 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058729.D
 Acq: 12 Oct 2019 2:17

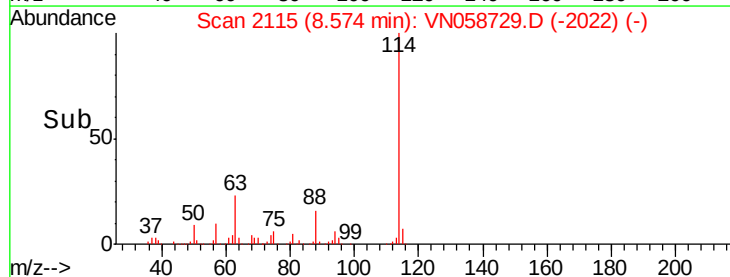
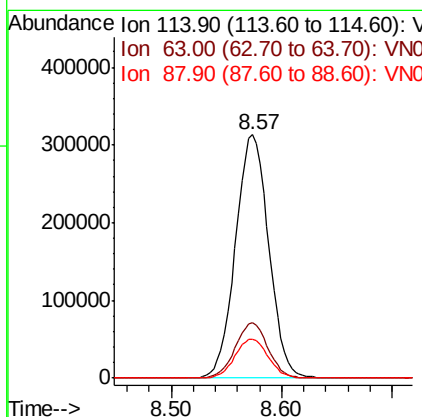
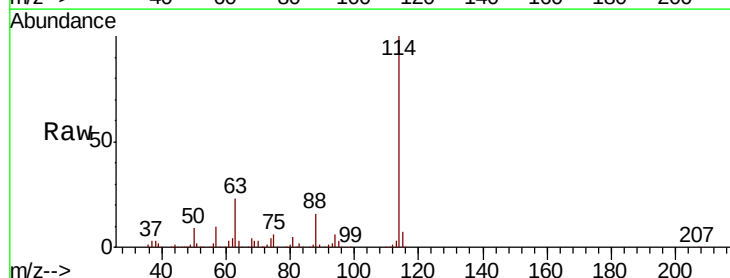
Instrument :
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 ClientSampled :
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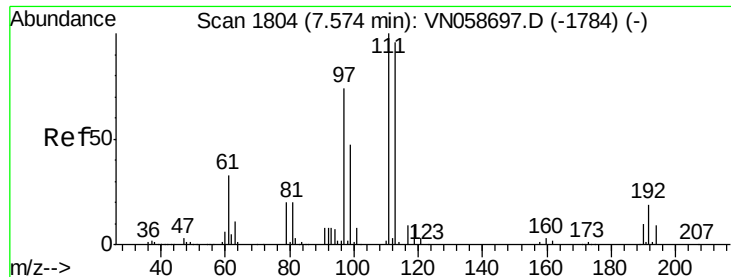
Tot Ion: 65 Resp: 295258
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058729.D
 Acq: 12 Oct 2019 2:17

Tgt Ion: 114 Resp: 653790
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 43.8
 88 15.9 0.0 32.0

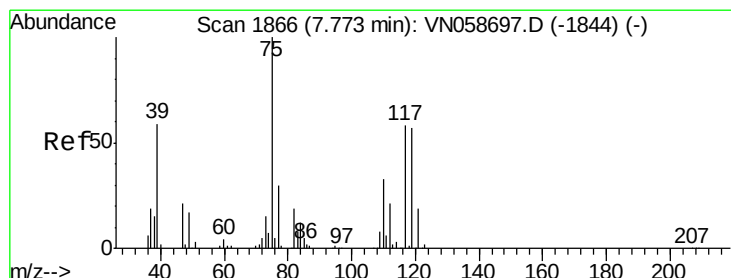
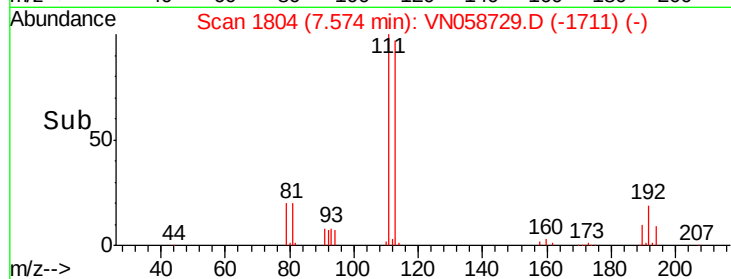
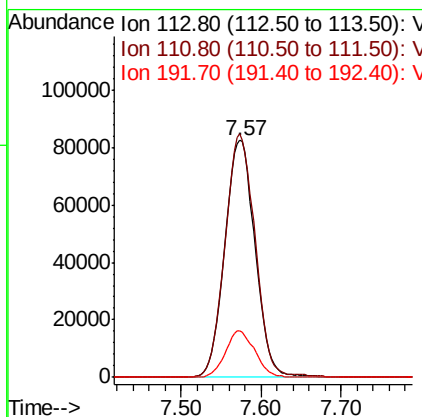
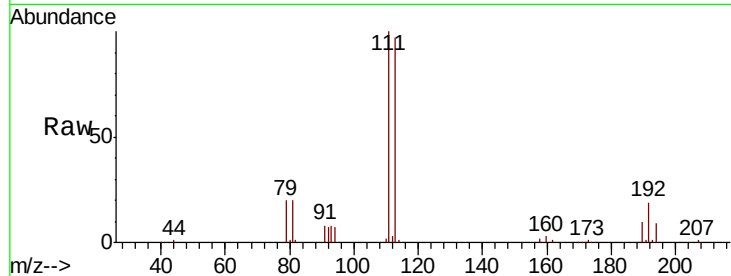




#35
 Dibromofluoromethane
 Concen: 52.771 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058729.D
 Acq: 12 Oct 2019 2:17

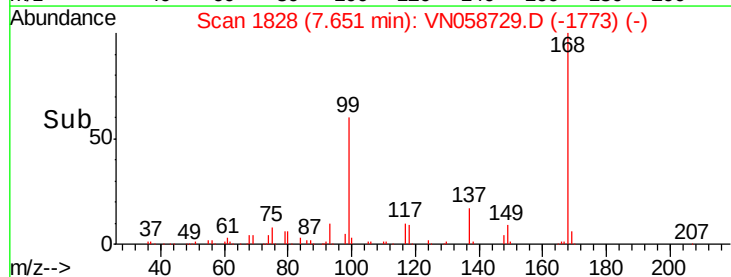
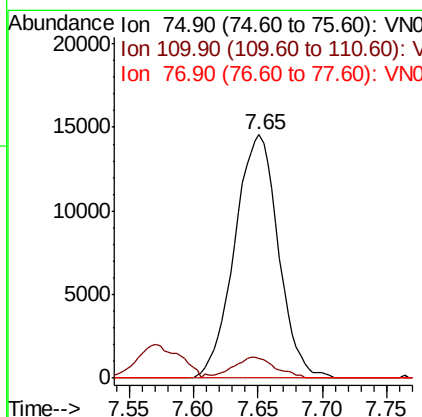
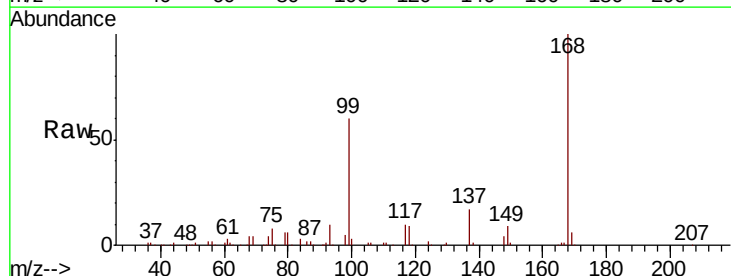
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 ClientSampled :
 TP-4

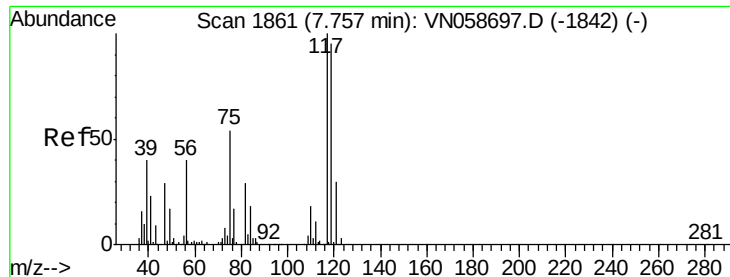
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.0	82.3	123.5
192	19.0	15.0	22.6



#36
 1,1-Dichloropropene
 Concen: 5.193 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.12 min
 Lab File: VN058729.D
 Acq: 12 Oct 2019 2:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.6	49.8#
77	0.0	24.6	37.0#

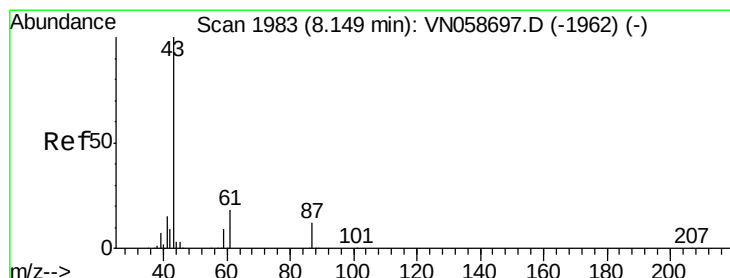
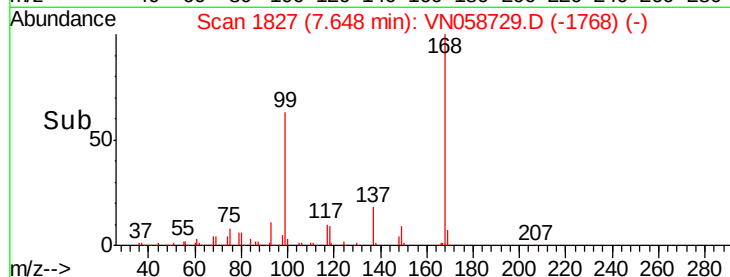
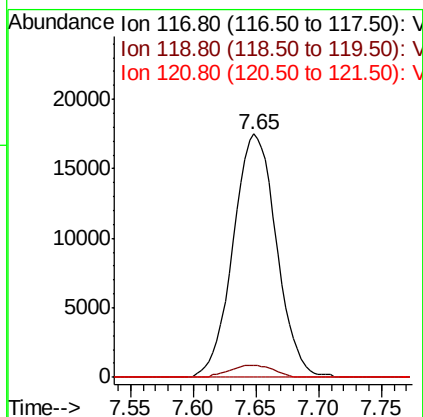
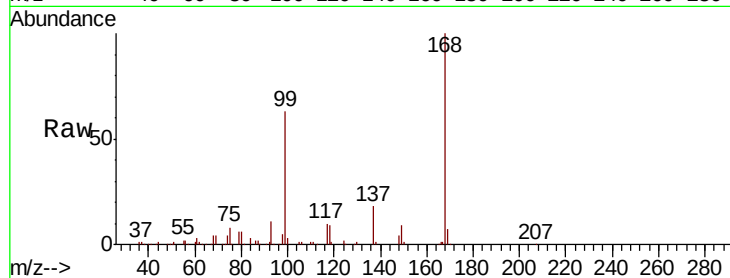




#38
Carbon Tetrachloride
Concen: 6.523 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058729.D
Acq: 12 Oct 2019 2:17

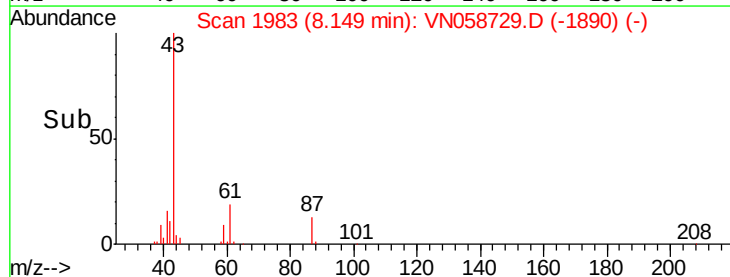
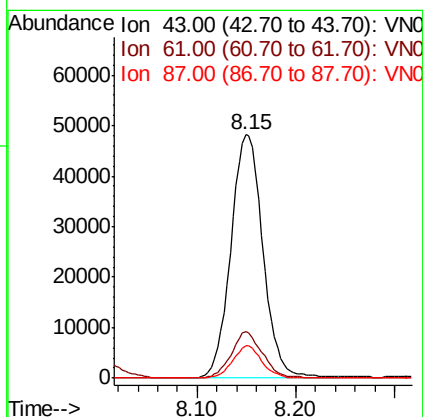
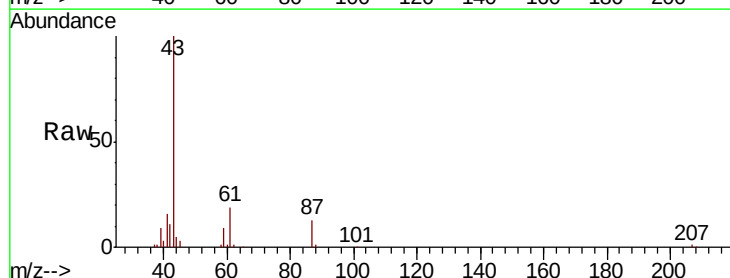
Instrument :
MSVOA_N
ClientSampled :
TP-4

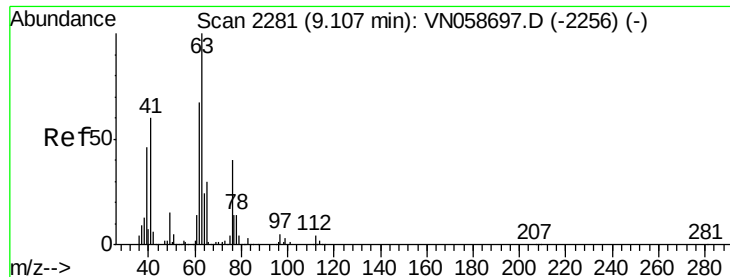
Tot Ion:117 Resp: 42026
Ion Ratio Lower Upper
117 100
119 5.0 75.7 113.5#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 9.583 ug/l
RT: 8.15 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VN058729.D
Acq: 12 Oct 2019 2:17

Tgt Ion: 43 Resp: 109138
Ion Ratio Lower Upper
43 100
61 18.3 20.3 30.5#
87 12.0 9.8 14.6

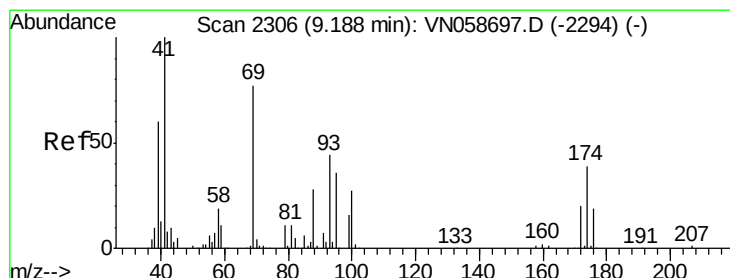
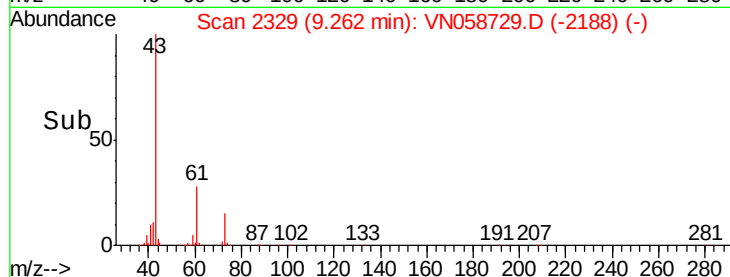
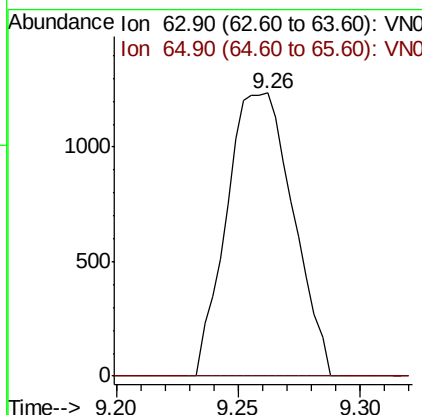
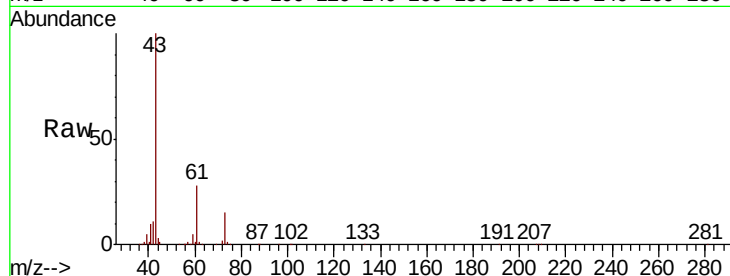




#45
 1,2-Dichloropropane
 Concen: 0.459 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN058729.D
 Acq: 12 Oct 2019 2:17

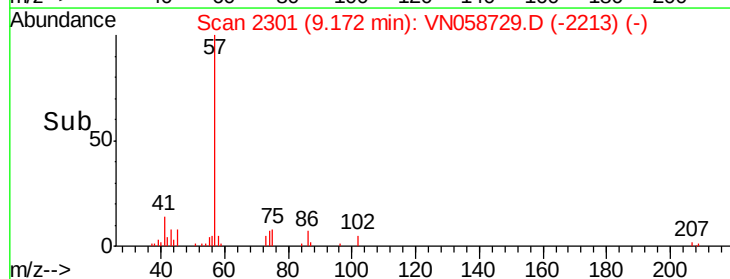
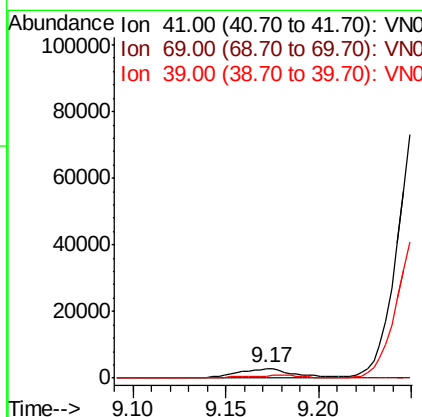
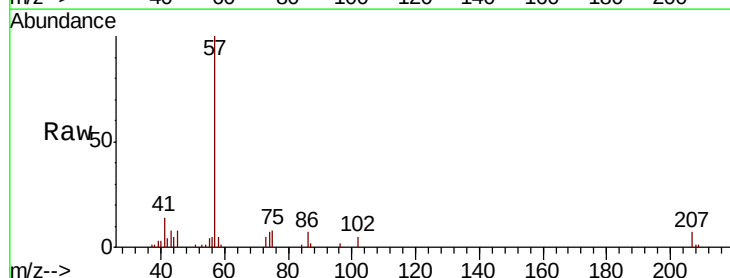
Instrument :
 MSVOA_N
 ClientSampled :
 TP-4

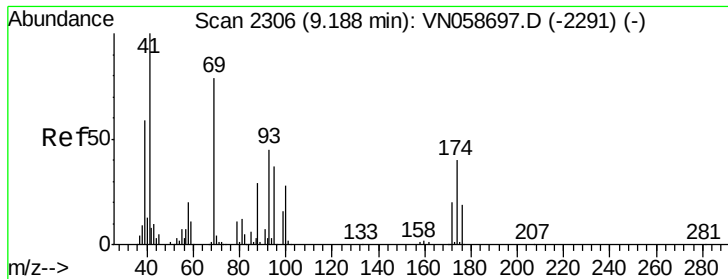
Tot Ion: 63 Resp: 2331
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.1 36.1#



#48
 Methyl methacrylate
 Concen: 1.150 ug/l
 RT: 9.17 min Scan# 2301
 Delta R.T. -0.02 min
 Lab File: VN058729.D
 Acq: 12 Oct 2019 2:17

Tgt Ion: 41 Resp: 5937
 Ion Ratio Lower Upper
 41 100
 69 0.0 63.4 95.2#
 39 0.0 48.9 73.3#





#49

1,4-Dioxane

Concen: 2.116 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.07 min

Lab File: VN058729.D

Acq: 12 Oct 2019 2:17

Instrument :

MSVOA_N

ClientSampled :

TP-4

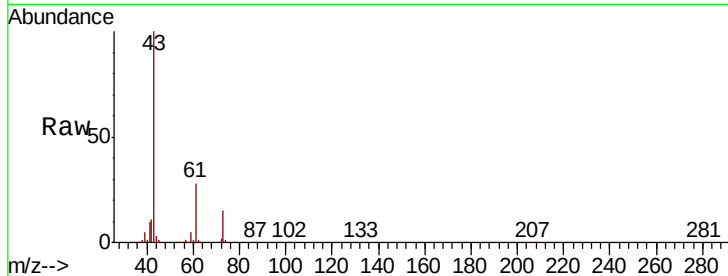
Tot Ion: 88 Resp: 169

Ion Ratio Lower Upper

88 100

43 1137060.4 28.6 43.0#

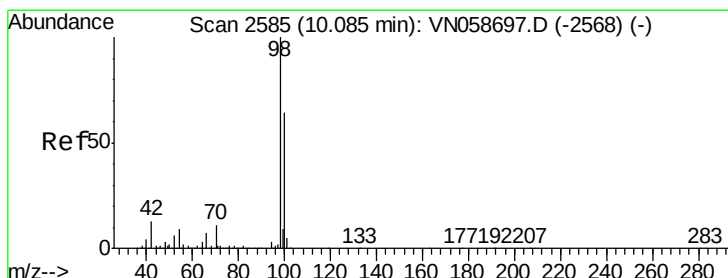
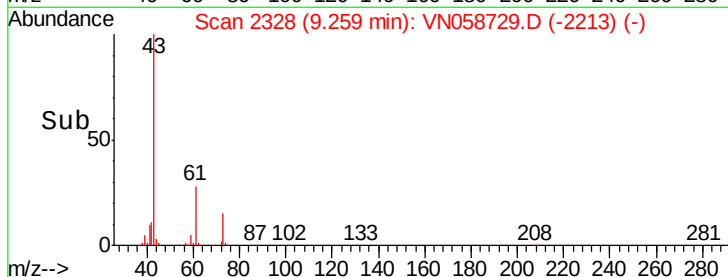
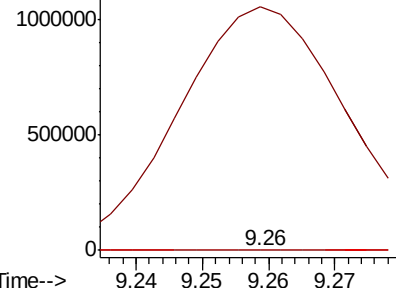
58 5310.7 57.2 85.8#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 51.751 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058729.D

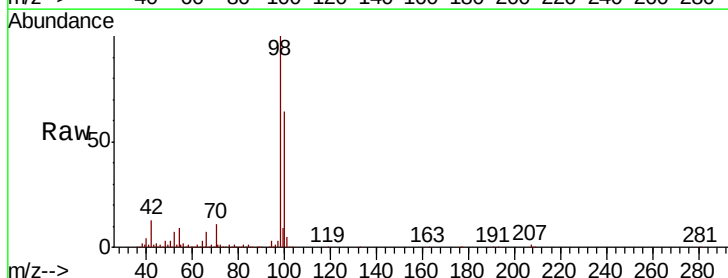
Acq: 12 Oct 2019 2:17

Tgt Ion: 98 Resp: 835708

Ion Ratio Lower Upper

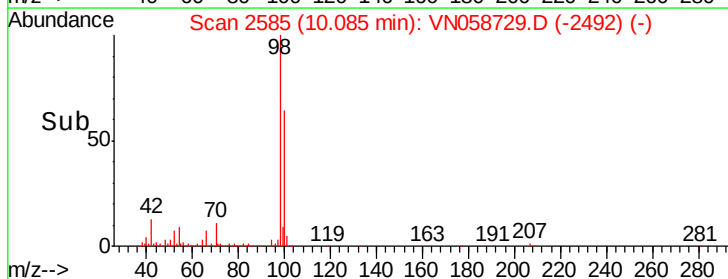
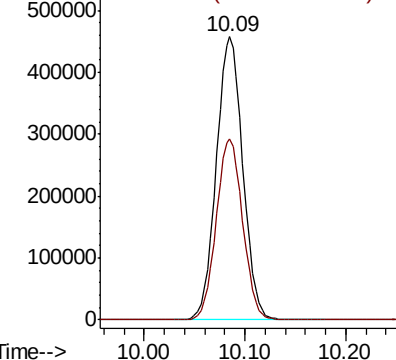
98 100

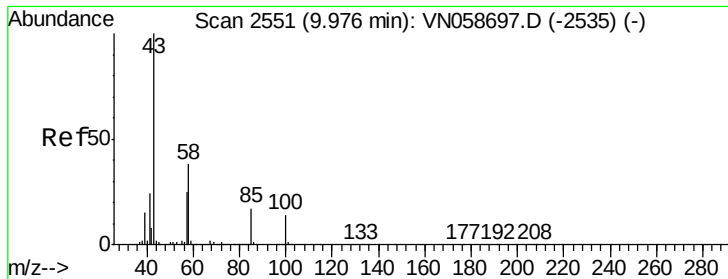
100 63.9 51.1 76.7



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: 1.069 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN058729.D

Acq: 12 Oct 2019 2:17

Instrument :

MSVOA_N

ClientSampleId :

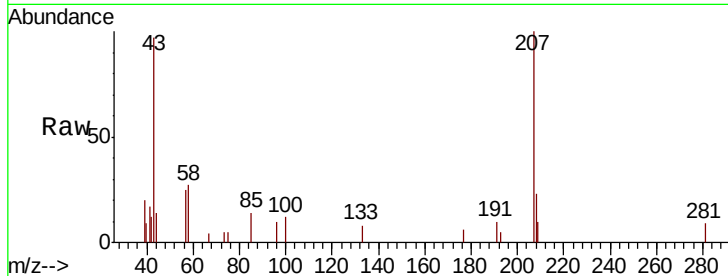
TP-4

Tot Ion: 43 Resp: 6837

Ion Ratio Lower Upper

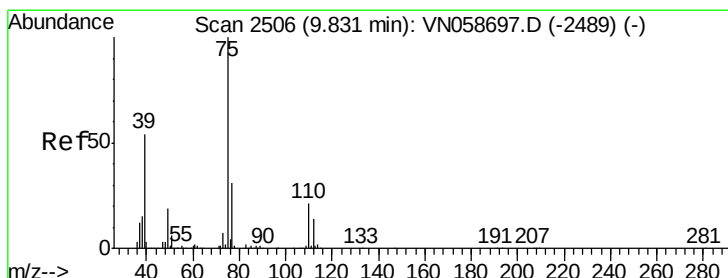
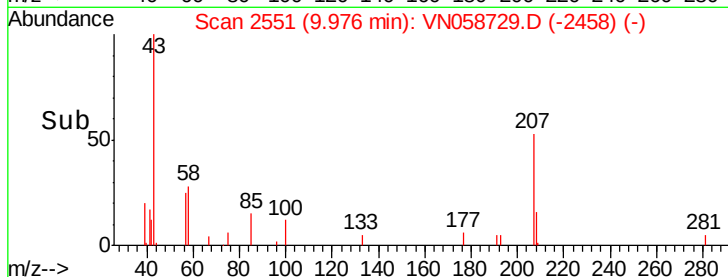
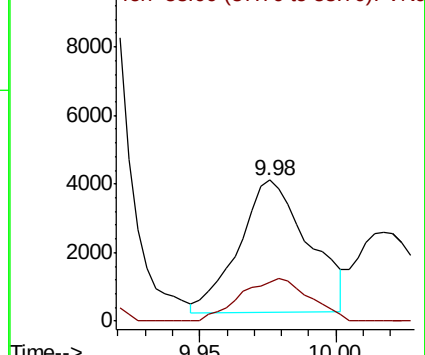
43 100

58 32.1 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.384 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN058729.D

Acq: 12 Oct 2019 2:17

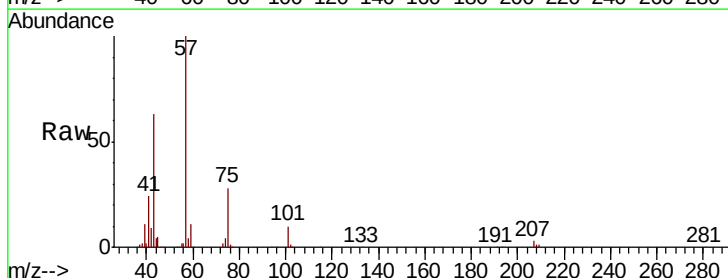
Tgt Ion: 75 Resp: 43022

Ion Ratio Lower Upper

75 100

77 1.0 24.4 36.6#

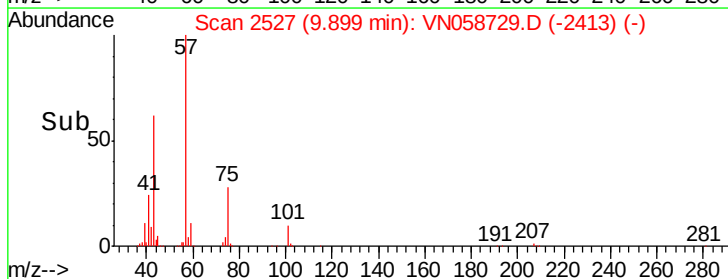
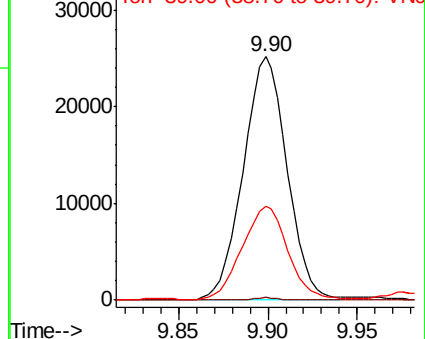
39 38.7 43.1 64.7#

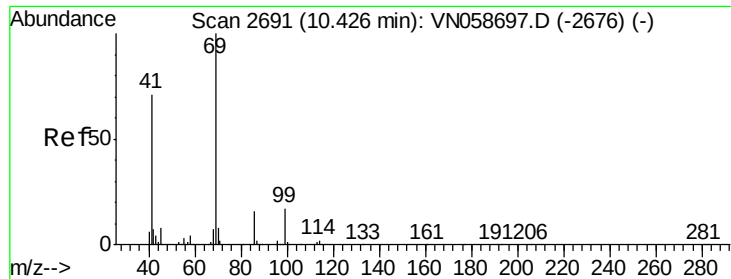


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.287 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058729.D

Acq: 12 Oct 2019 2:17

Instrument :

MSVOA_N

ClientSampleId :

TP-4

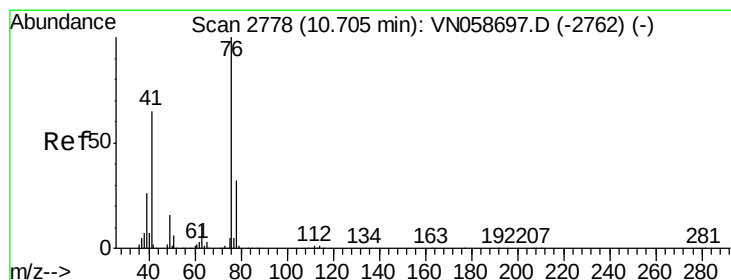
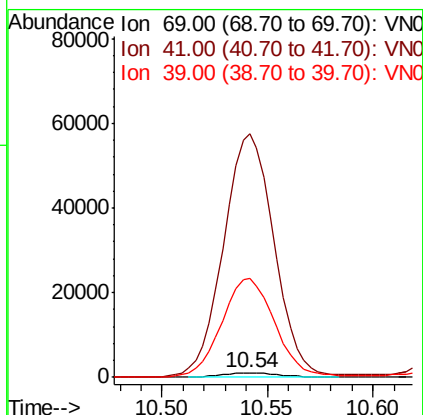
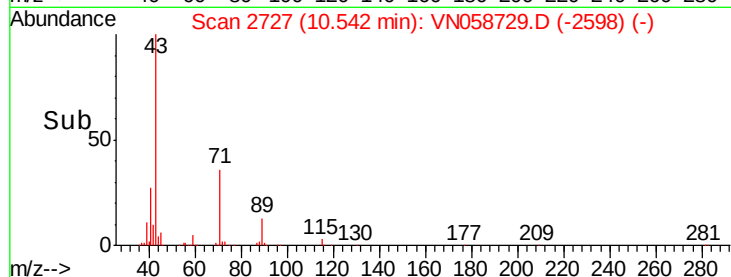
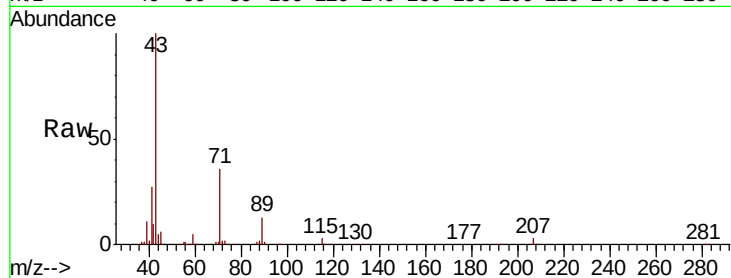
Tot Ion: 69 Resp: 1991

Ion Ratio Lower Upper

69 100

41 4838.0 56.8 85.2#

39 2073.9 32.5 48.7#



#57

1,3-Dichloropropane

Concen: 1.009 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN058729.D

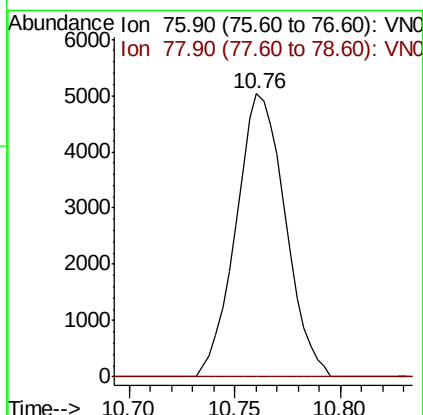
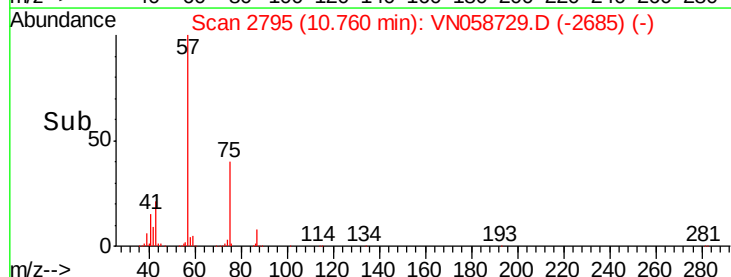
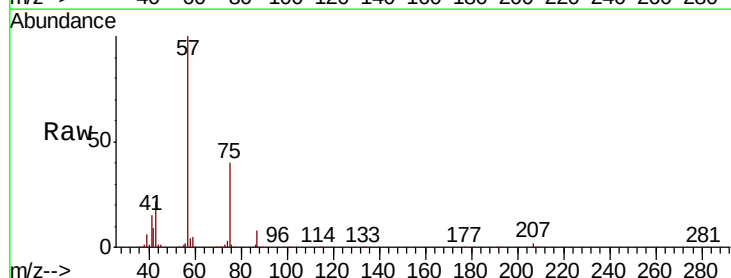
Acq: 12 Oct 2019 2:17

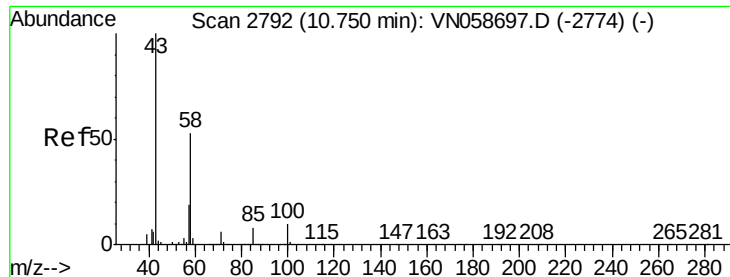
Tgt Ion: 76 Resp: 8174

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#





#59

2-Hexanone

Concen: 23.893 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058729.D

Acq: 12 Oct 2019 2:17

Instrument :

MSVOA_N

ClientSampleId :

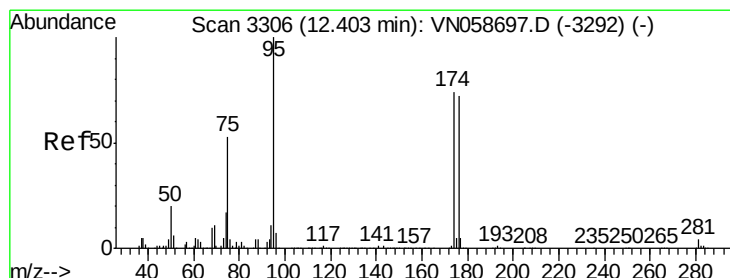
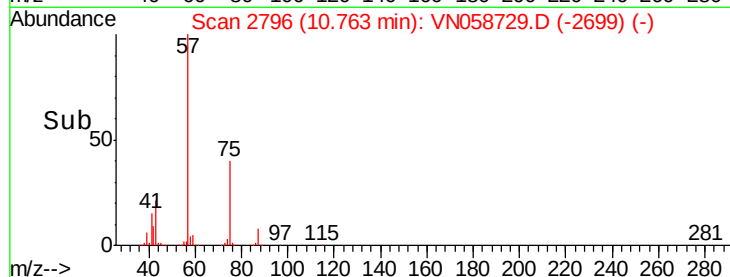
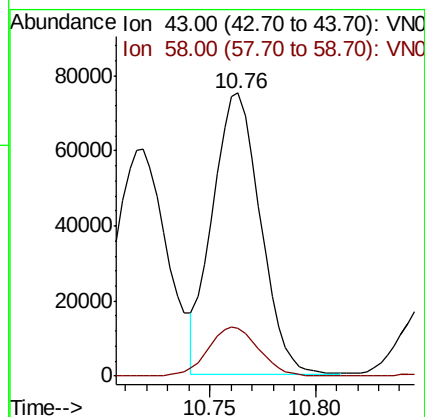
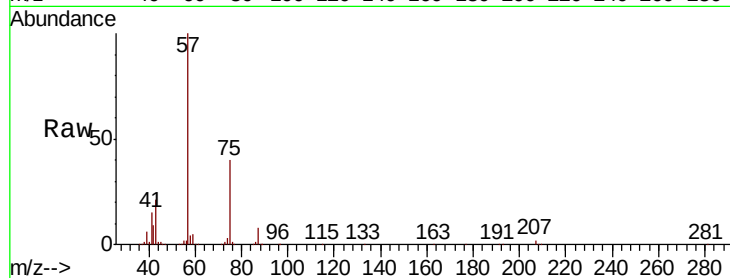
TP-4

Tot Ion: 43 Resp: 118098

Ion Ratio Lower Upper

43 100

58 18.5 26.1 78.3#



#62

4-Bromofluorobenzene

Concen: 45.919 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058729.D

Acq: 12 Oct 2019 2:17

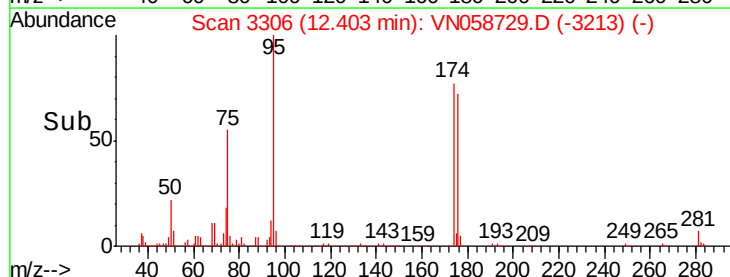
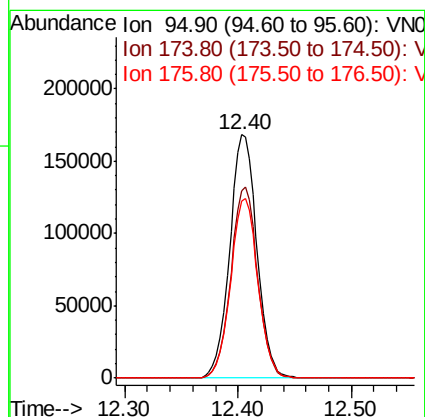
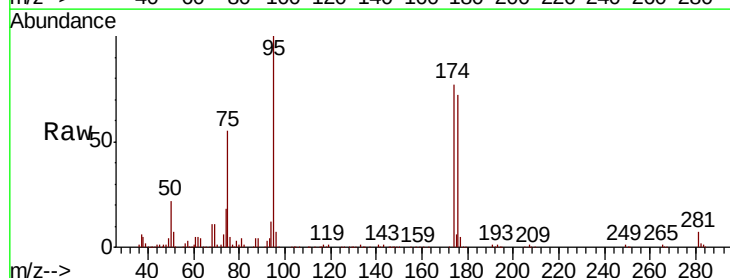
Tgt Ion: 95 Resp: 280692

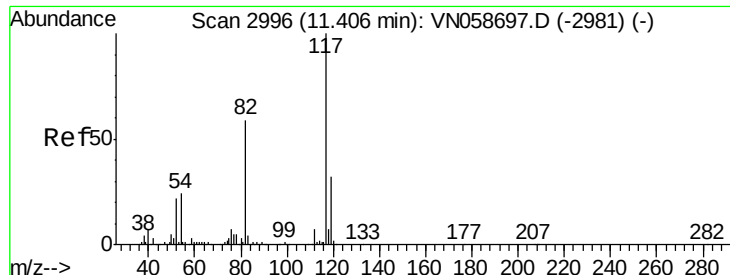
Ion Ratio Lower Upper

95 100

174 77.6 0.0 150.4

176 74.2 0.0 146.8

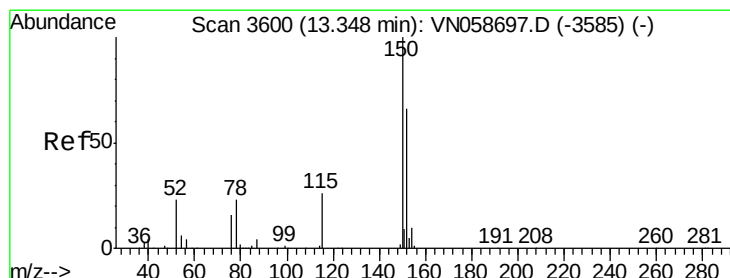
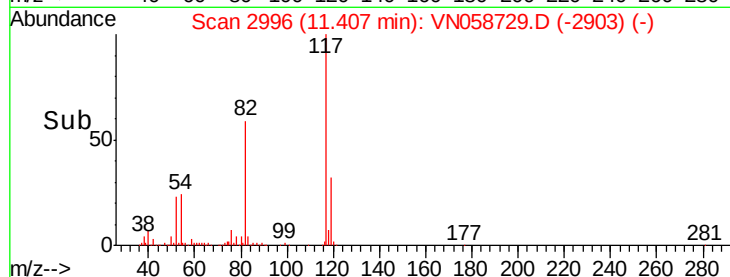
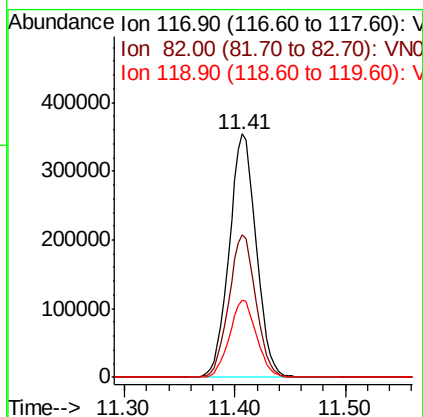
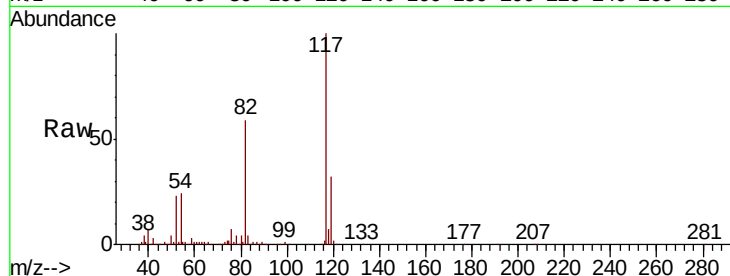




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058729.D
Acq: 12 Oct 2019 2:17

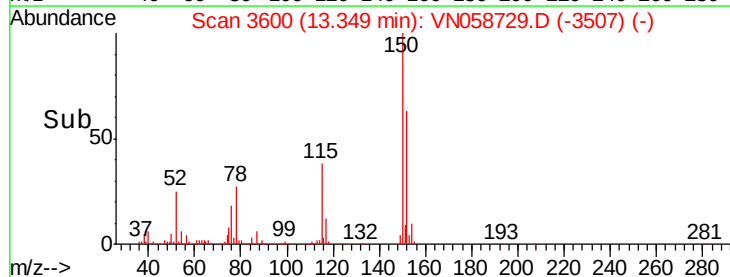
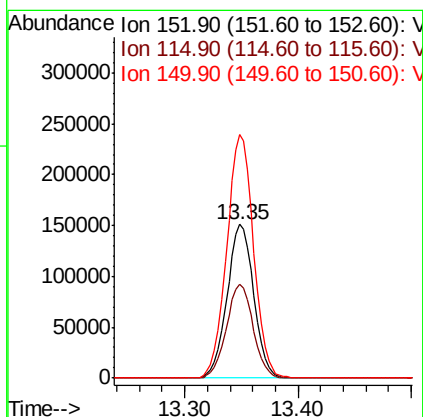
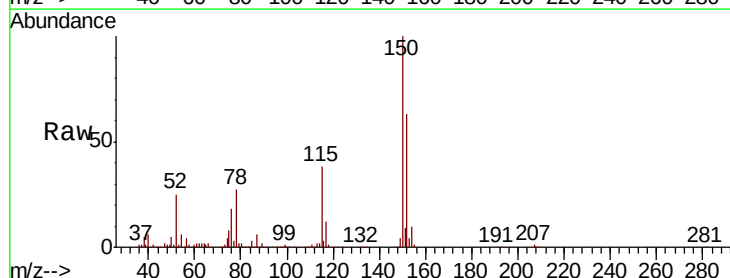
Instrument :
MSVOA_N
ClientSampleId :
TP-4

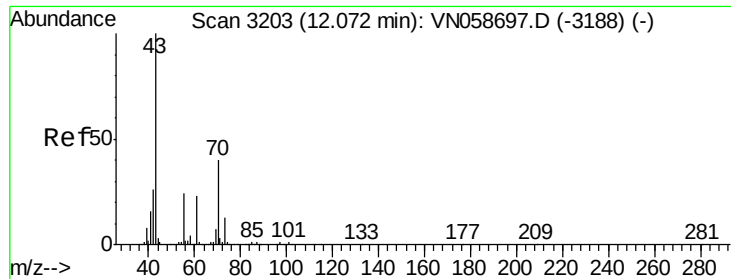
Tot Ion:117 Resp: 600769
Ion Ratio Lower Upper
117 100
82 58.6 47.0 70.4
119 31.8 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058729.D
Acq: 12 Oct 2019 2:17

Tgt Ion:152 Resp: 247816
Ion Ratio Lower Upper
152 100
115 61.1 30.4 91.2
150 158.9 0.0 345.4

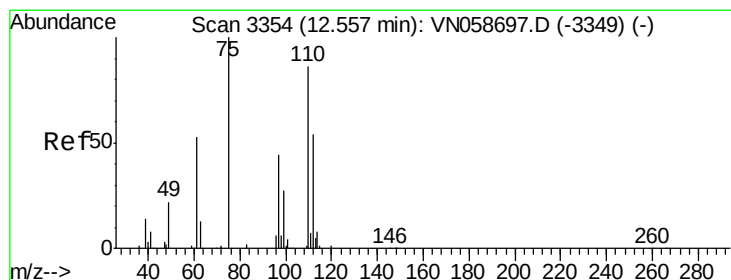
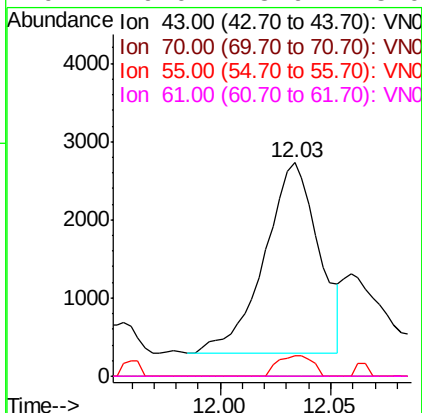
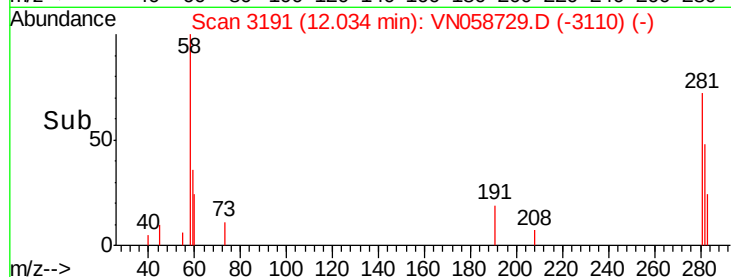
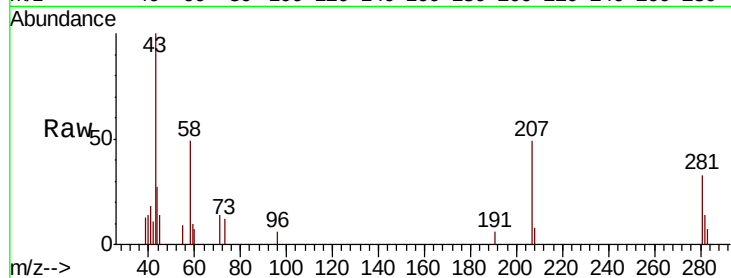




#74
N-amvl acetate
Concen: 0.520 ug/l
RT: 12.03 min Scan# 3191
Delta R.T. -0.04 min
Lab File: VN058729.D
Acq: 12 Oct 2019 2:17

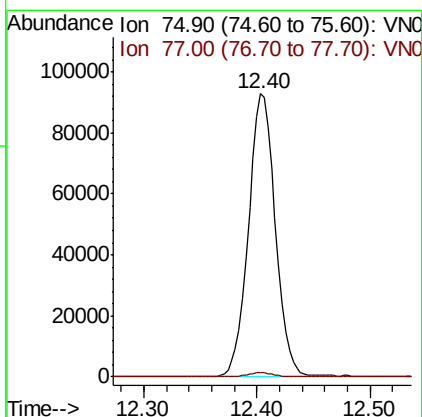
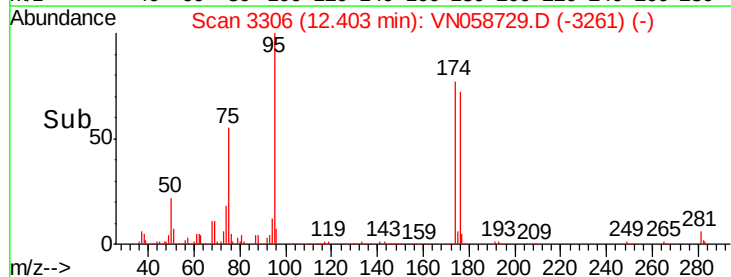
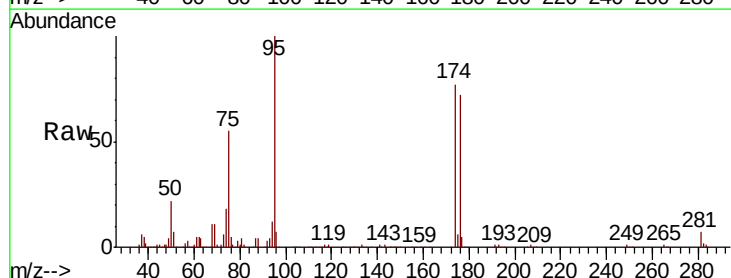
Instrument :
MSVOA_N
ClientSampled :
TP-4

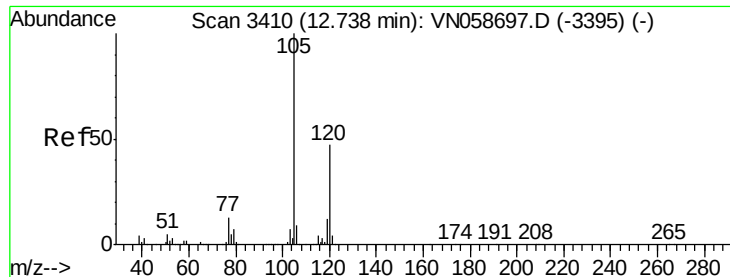
Tot Ion: 43 Resp: 4194
Ion Ratio Lower Upper
43 100
70 0.0 32.2 48.4#
55 6.8 19.6 29.4#
61 0.0 18.6 28.0#



#76
1,2,3-Trichloropropane
Concen: 28.299 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN058729.D
Acq: 12 Oct 2019 2:17

Tgt Ion: 75 Resp: 153845
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.262 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058729.D

Acq: 12 Oct 2019 2:17

Instrument :

MSVOA_N

ClientSampled :

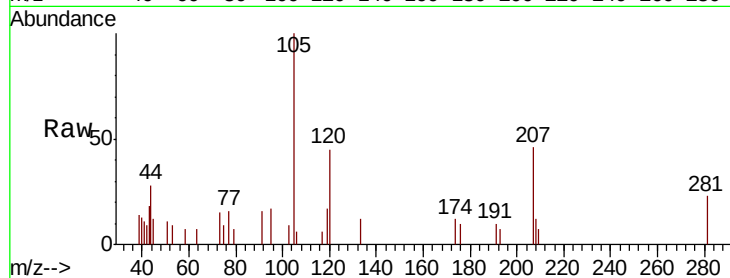
TP-4

Tot Ion:105 Resp: 4014

Ion Ratio Lower Upper

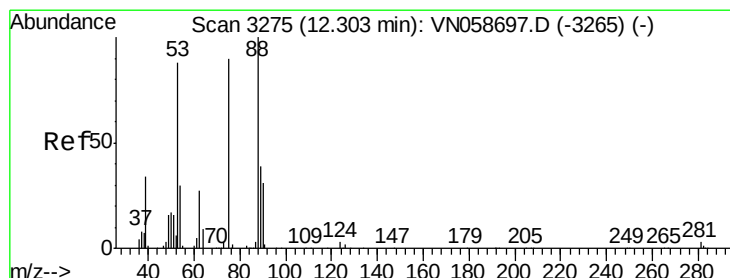
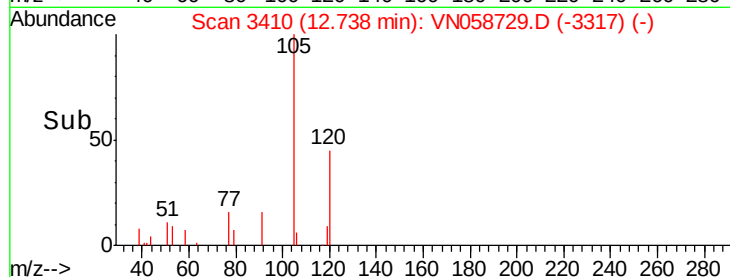
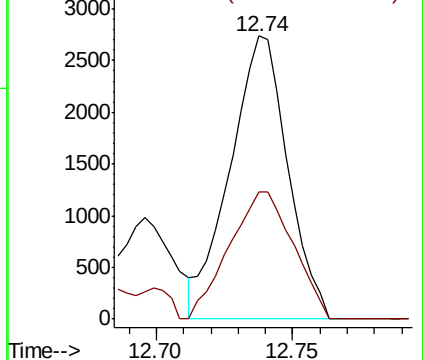
105 100

120 50.0 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 75.803 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058729.D

Acq: 12 Oct 2019 2:17

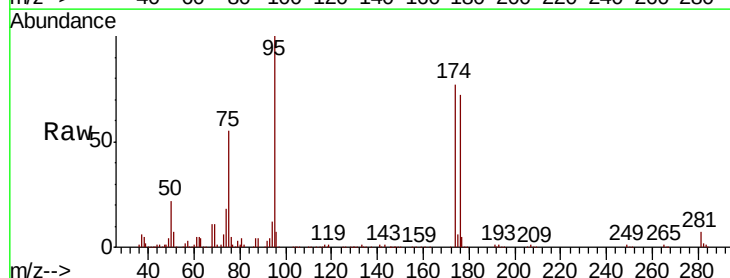
Tgt Ion: 75 Resp: 153845

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

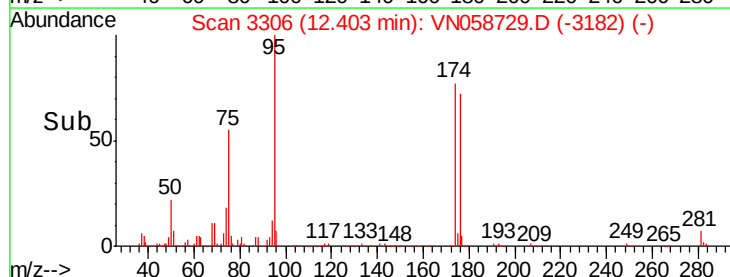
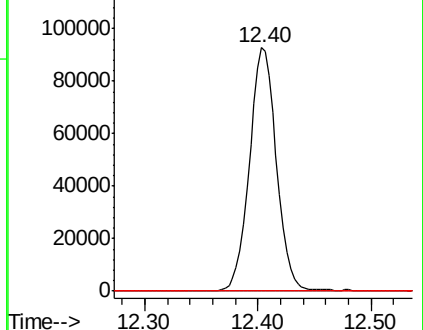
89 0.1 34.9 52.3#

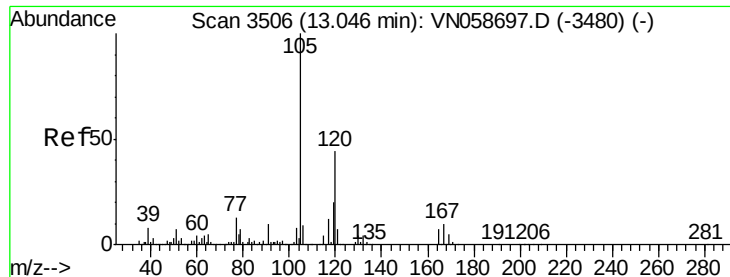


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#84

1,2,4-Trimethylbenzene

Concen: 0.566 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. 0.00 min

Lab File: VN058729.D

Acq: 12 Oct 2019 2:17

Instrument :

MSVOA_N

ClientSampled :

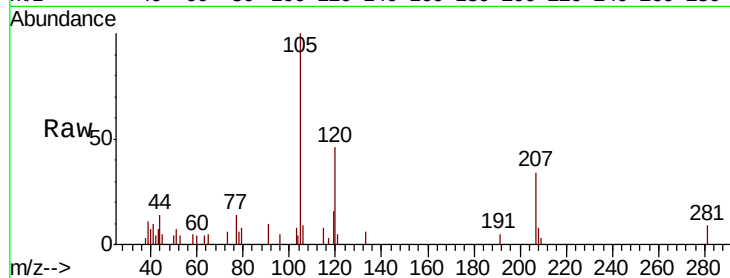
TP-4

Tot Ion:105 Resp: 8606

Ion Ratio Lower Upper

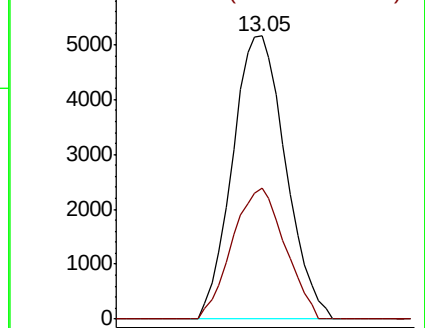
105 100

120 45.8 21.9 65.7

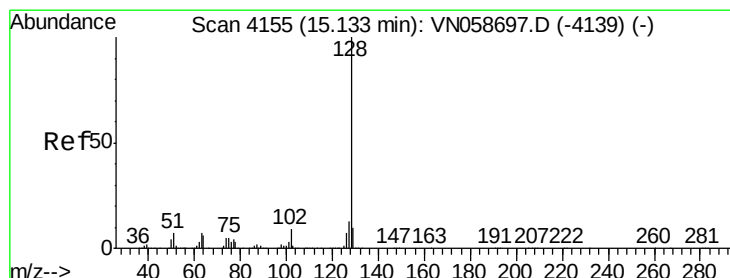
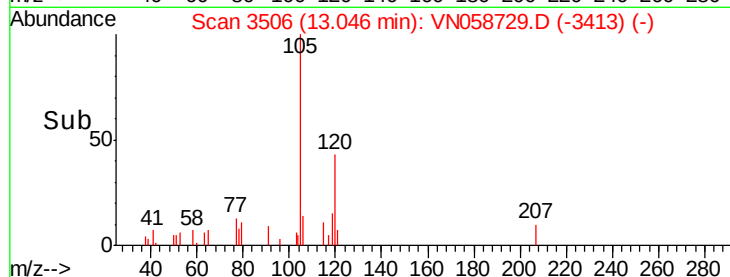


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->



#95

Naphthalene

Concen: 1.961 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058729.D

Acq: 12 Oct 2019 2:17

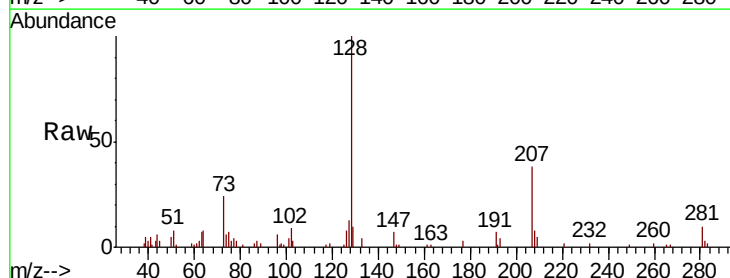
Tgt Ion:128 Resp: 26981

Ion Ratio Lower Upper

128 100

127 13.3 10.2 15.4

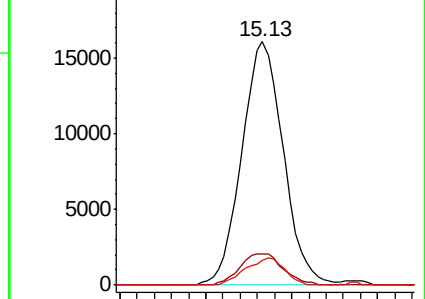
129 10.4 8.5 12.7



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



Time-->

