

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055733.D
 Acq On : 22 May 2019 21:57
 Operator : JC/SP
 Sample : K2980-02 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-2

Quant Time: May 23 06:04:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	57973	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	304735	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	241916	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	114837	30.31	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.03%
60) 4-Bromofluorobenzene	12.40	95	92313	24.53	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	81.77%
63) Toluene-d8	10.09	98	360334	32.59	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	108.63%

Target Compounds

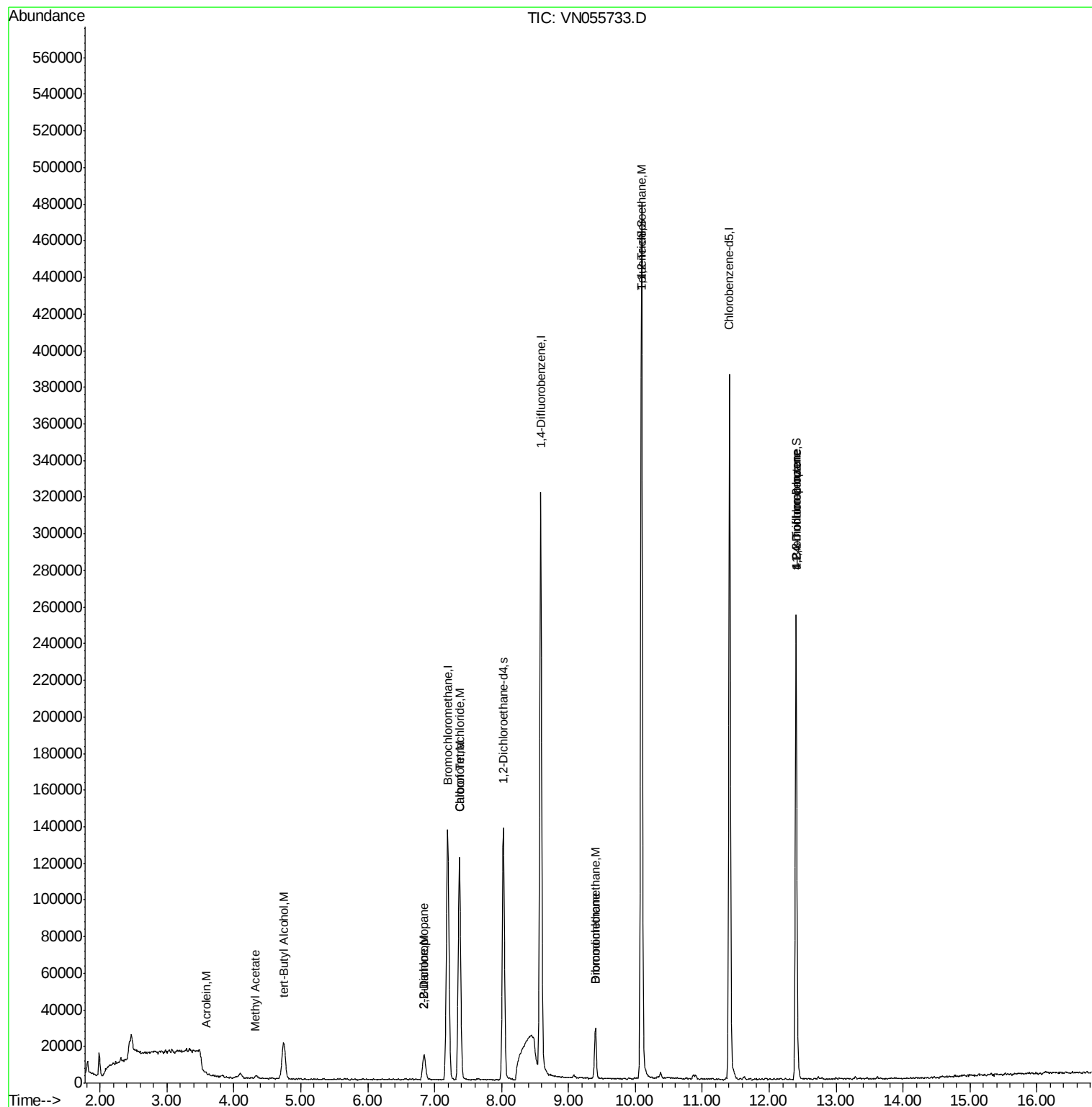
					Ovalue	
12) Methyl Acetate	4.32	43	842	0.225	ug/l	92
13) Acrolein	3.59	56	275	0.529	ug/l #	82
23) tert-Butyl Alcohol	4.74	59	18877	25.192	ug/l #	100
25) Chloroform	7.37	83	130870	21.929	ug/l	99
30) 2-Butanone	6.84	43	482	0.212	ug/l #	52
31) 2,2-Dichloropropane	6.84	77	1075	0.217	ug/l #	51
33) Carbon Tetrachloride	7.37	117	1511	0.334	ug/l #	78
40) Dibromomethane	9.41	93	559	0.245	ug/l #	1
41) Bromodichloromethane	9.40	83	19355	4.131	ug/l	97
50) 1,1,2-Trichloroethane	10.10	97	10793	3.243	ug/l #	1
72) 1,2,3-Trichloropropane	12.40	75	42363	11.440	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	42363	28.801	ug/l #	17

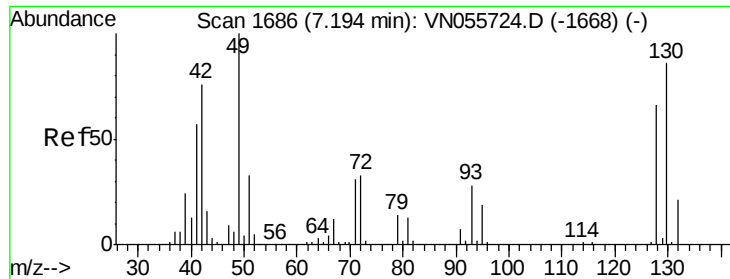
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampled :
14B-2

Quant Time: May 23 06:04:29 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 23 05:54:54 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN055733.D

Acq: 22 May 2019 21:57

Instrument :

MSVOA_N

ClientSampled :

14B-2

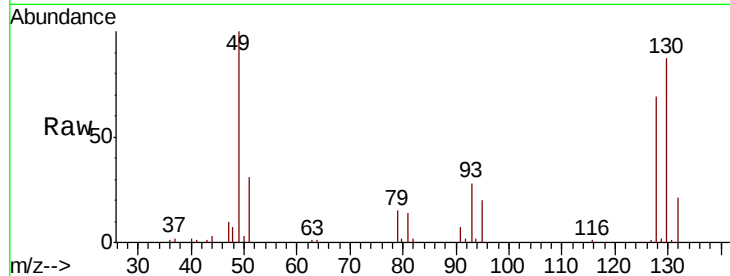
Tot Ion:128 Resp: 57973

Ion Ratio Lower Upper

128 100

49 148.1 0.0 383.2

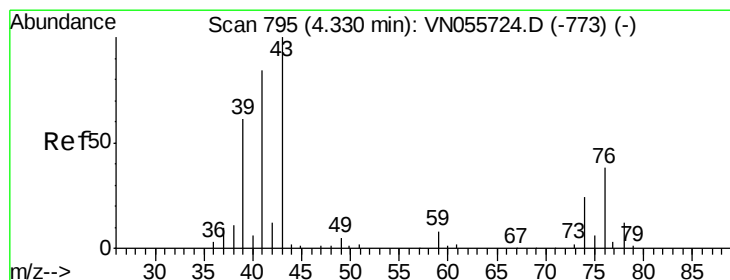
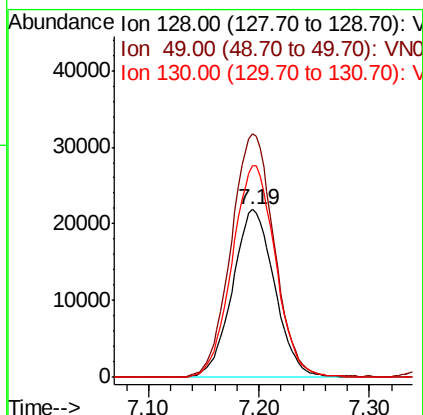
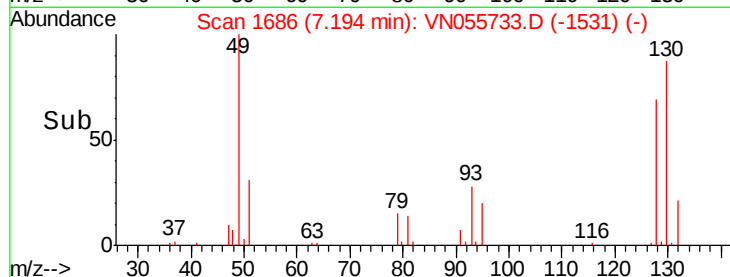
130 129.5 0.0 326.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 0.225 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.01 min

Lab File: VN055733.D

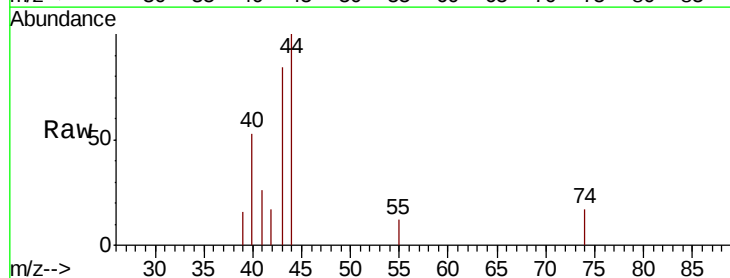
Acq: 22 May 2019 21:57

Tgt Ion: 43 Resp: 842

Ion Ratio Lower Upper

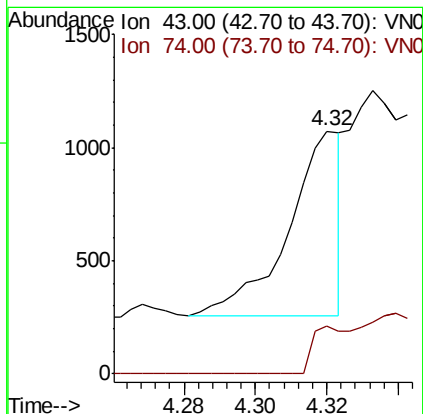
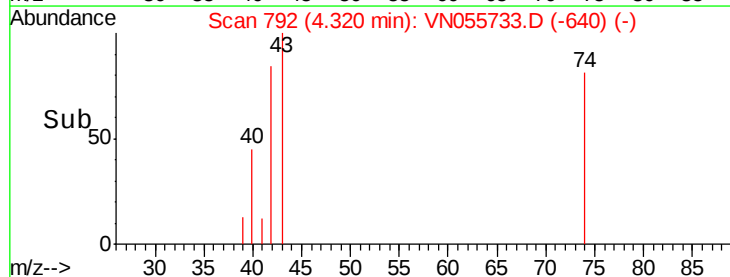
43 100

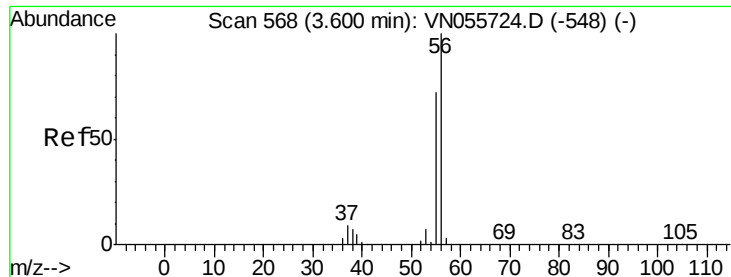
74 27.7 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 74.00 (73.70 to 74.70): VN





#13

Acrolein

Concen: 0.529 ug/l

RT: 3.59 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN055733.D

Acq: 22 May 2019 21:57

Instrument :

MSVOA_N

ClientSampled :

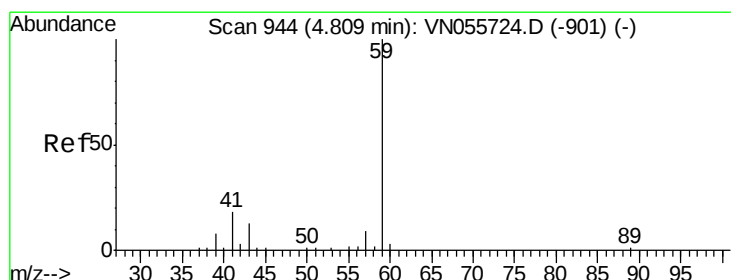
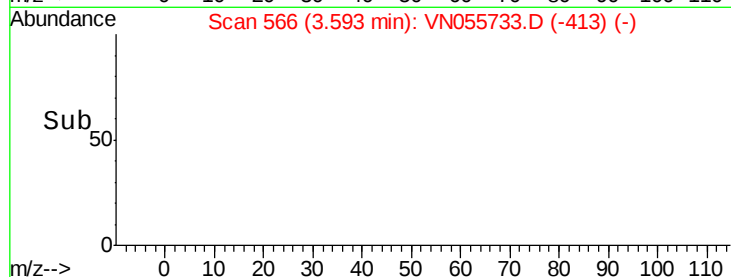
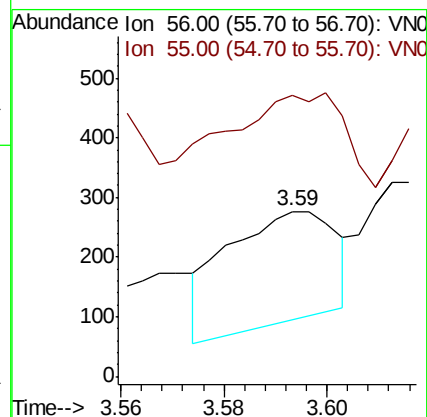
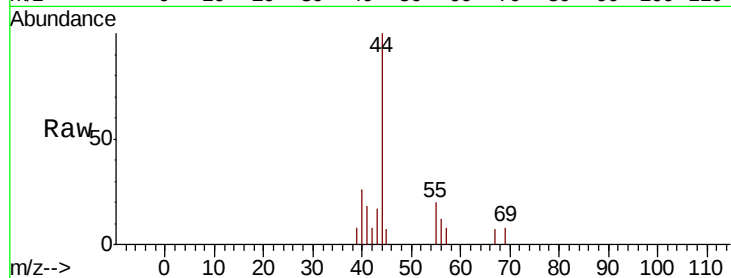
14B-2

Tot Ion: 56 Resp: 275

Ion Ratio Lower Upper

56 100

55 56.4 57.0 85.6#



#23

tert-Butyl Alcohol

Concen: 25.192 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN055733.D

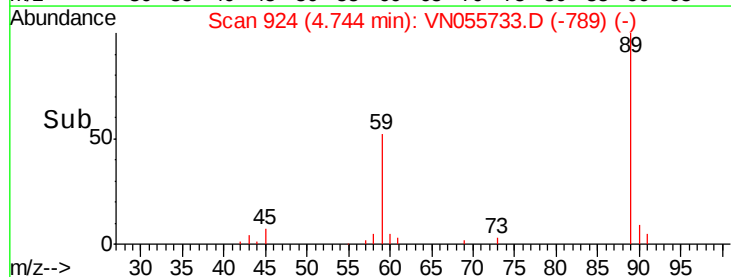
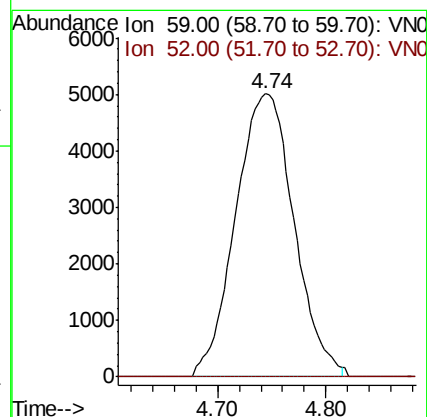
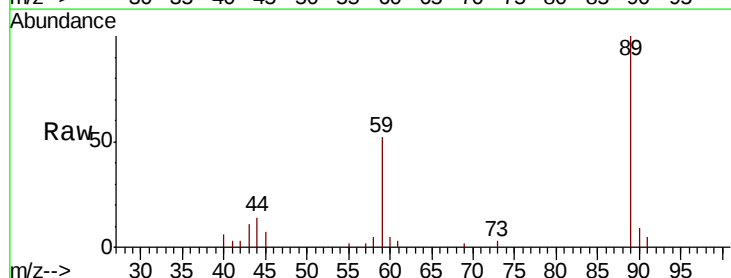
Acq: 22 May 2019 21:57

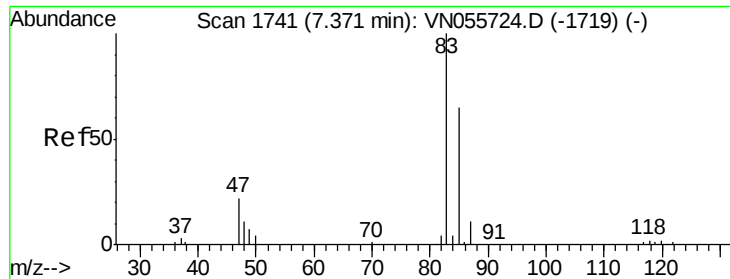
Tgt Ion: 59 Resp: 18877

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

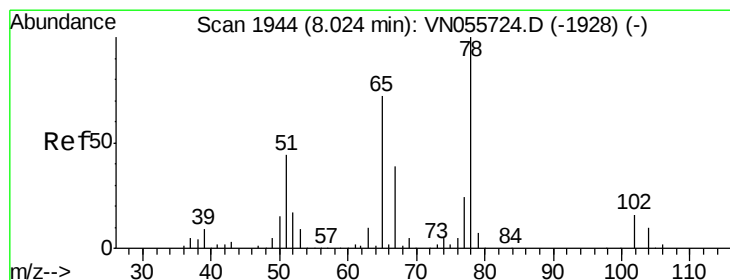
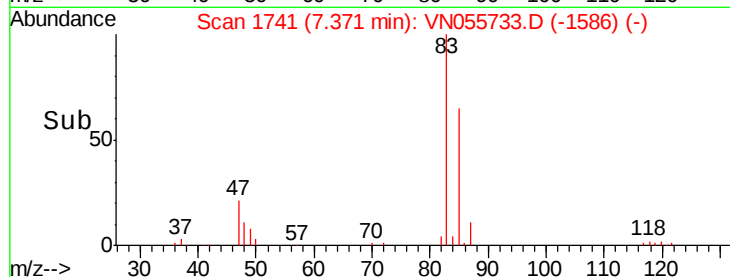
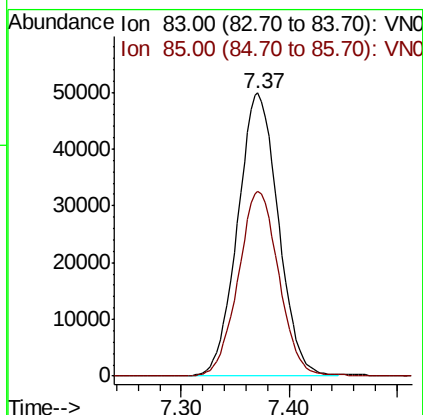
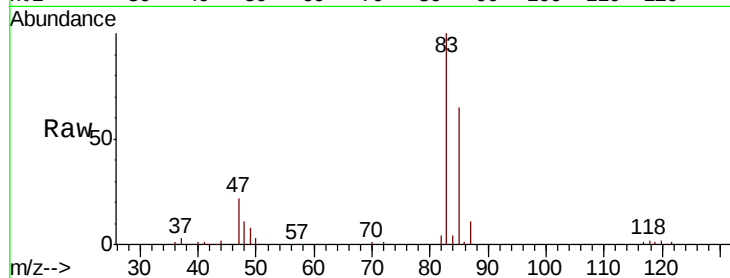




#25
Chloroform
Concen: 21.929 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN055733.D
Acq: 22 May 2019 21:57

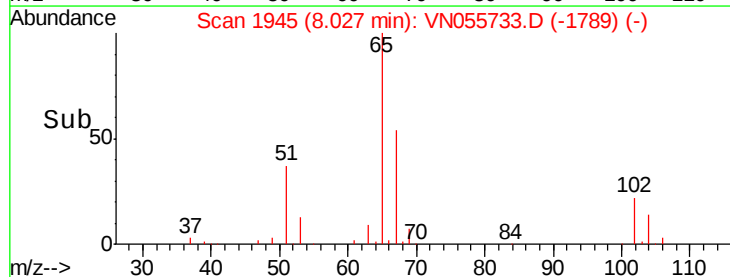
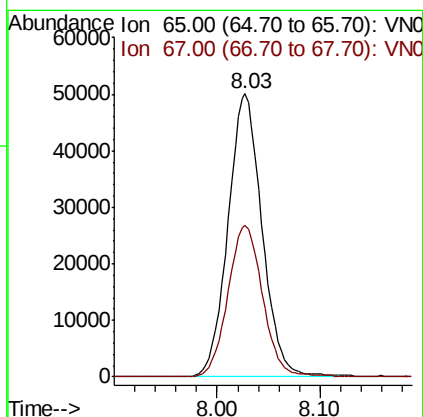
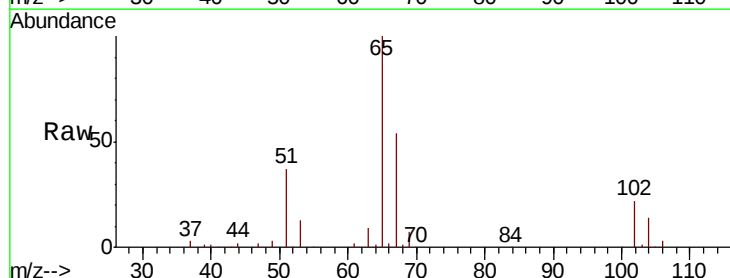
Instrument :
MSVOA_N
ClientSampled :
14B-2

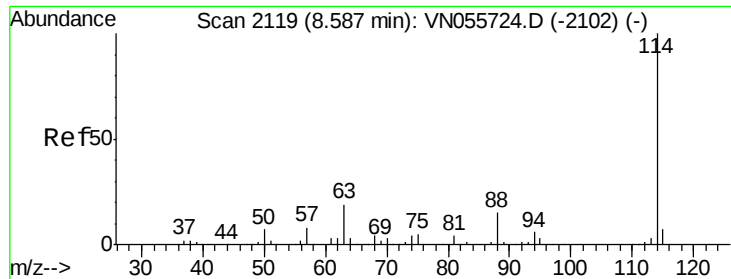
Tot Ion: 83 Resp: 130870
Ion Ratio Lower Upper
83 100
85 65.4 51.7 77.5



#27
1,2-Dichloroethane-d4
Concen: 30.306 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055733.D
Acq: 22 May 2019 21:57

Tgt Ion: 65 Resp: 114837
Ion Ratio Lower Upper
65 100
67 54.7 43.5 65.3

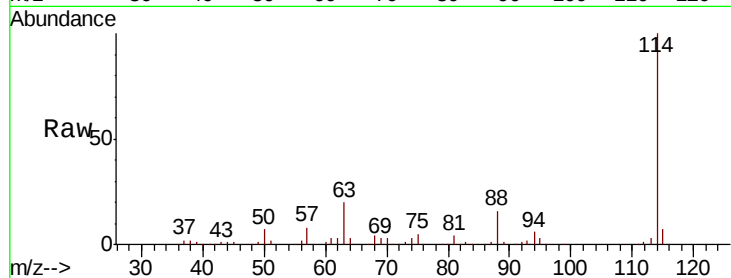




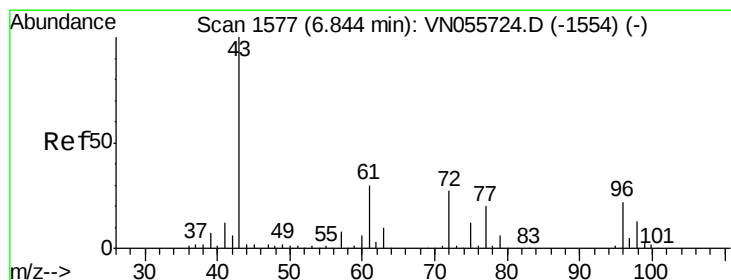
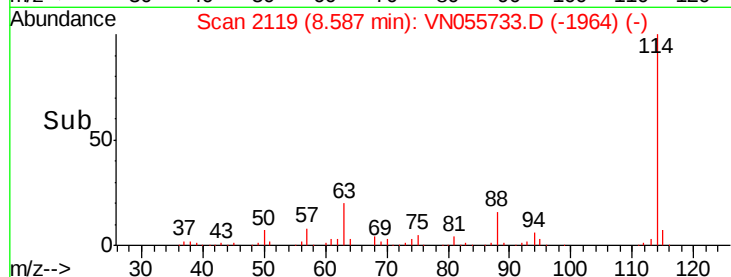
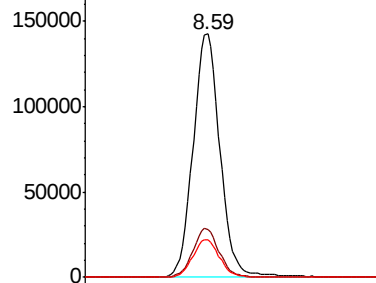
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055733.D
 Acq: 22 May 2019 21:57

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-2

Tot Ion:114 Resp: 304735
 Ion Ratio Lower Upper
 114 100
 63 19.6 15.6 23.4
 88 15.6 12.3 18.5

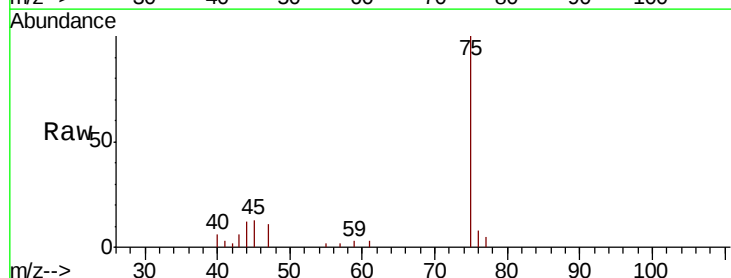


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 88.00 (87.70 to 88.70): VN

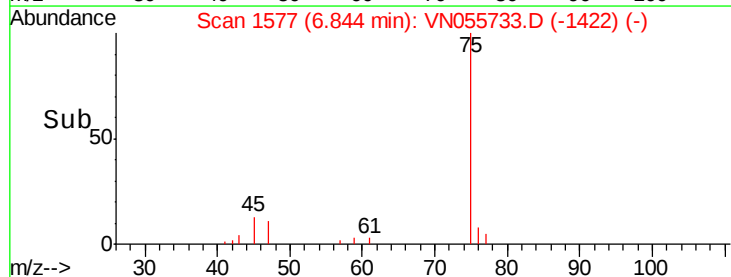
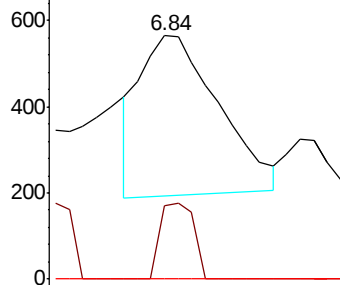


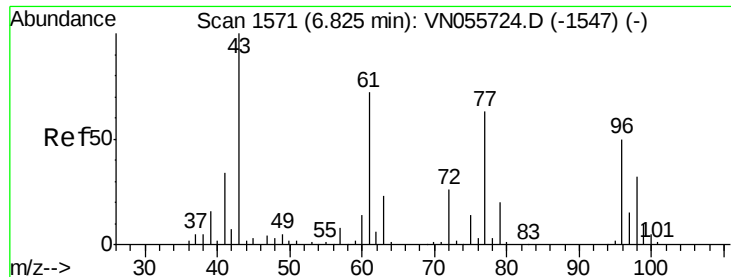
#30
 2-Butanone
 Concen: 0.212 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. -0.00 min
 Lab File: VN055733.D
 Acq: 22 May 2019 21:57

Tgt Ion: 43 Resp: 482
 Ion Ratio Lower Upper
 43 100
 57 20.1 6.6 10.0#
 72 0.0 21.7 32.5#



Abundance Ion 43.00 (42.70 to 43.70): VN
 Ion 57.00 (56.70 to 57.70): VN
 Ion 72.00 (71.70 to 72.70): VN

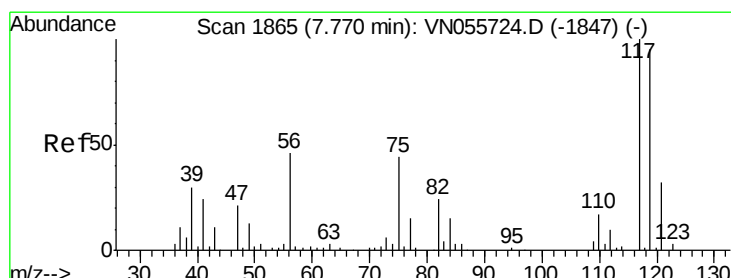
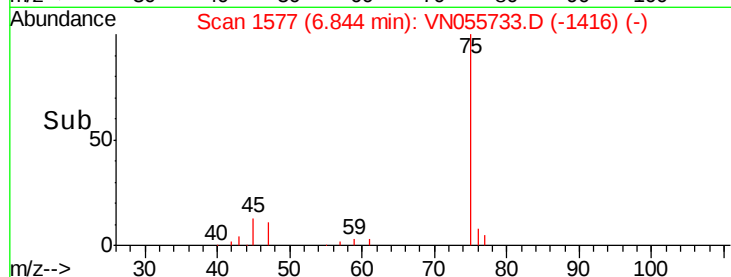
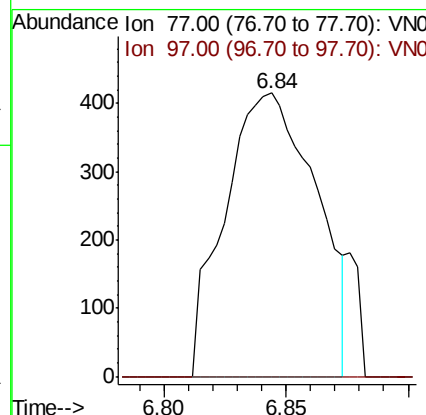
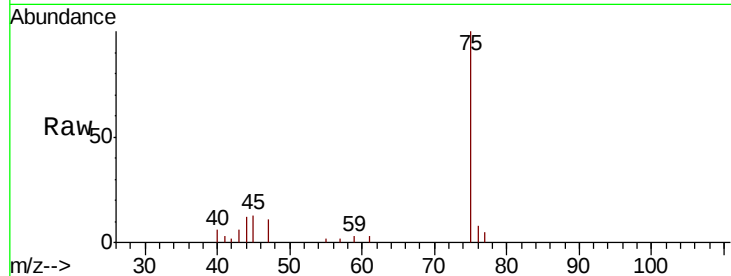




#31
 2,2-Dichloropropane
 Concen: 0.217 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.02 min
 Lab File: VN055733.D
 Acq: 22 May 2019 21:57

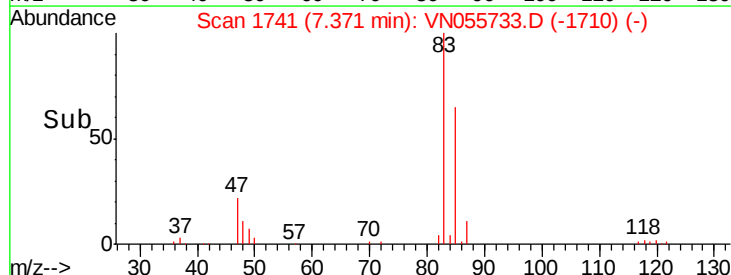
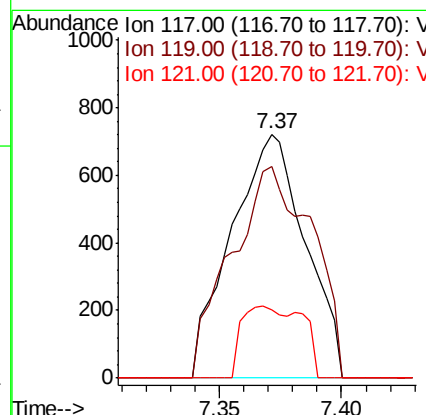
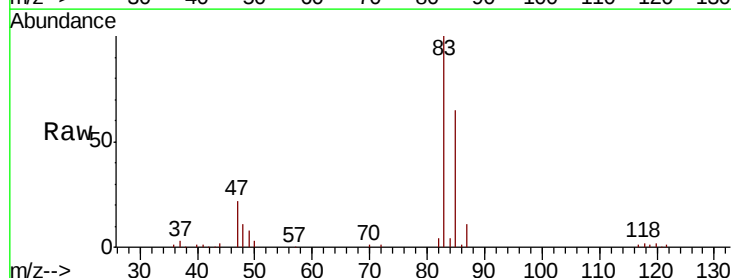
Instrument :
 MSVOA_N
 ClientSampled :
 14B-2

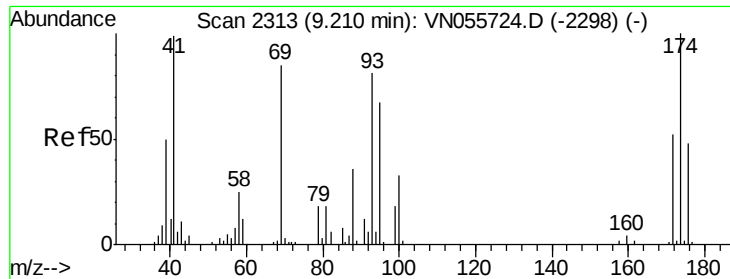
Tot Ion: 77 Resp: 1075
 Ion Ratio Lower Upper
 77 100
 97 0.0 19.2 28.8#



#33
 Carbon Tetrachloride
 Concen: 0.334 ug/l
 RT: 7.37 min Scan# 1741
 Delta R.T. -0.40 min
 Lab File: VN055733.D
 Acq: 22 May 2019 21:57

Tgt Ion: 117 Resp: 1511
 Ion Ratio Lower Upper
 117 100
 119 86.7 75.8 113.8
 121 67.0 25.4 38.0#





#40

Dibromomethane

Concen: 0.245 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.20 min

Lab File: VN055733.D

Acq: 22 May 2019 21:57

Instrument :

MSVOA_N

ClientSampleId :

14B-2

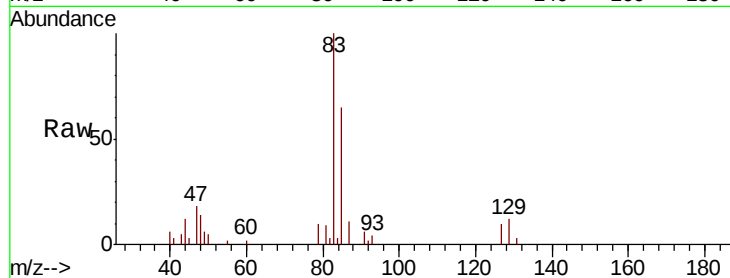
Tot Ion: 93 Resp: 559

Ion Ratio Lower Upper

93 100

95 0.0 0.0 170.6

174 0.0 0.0 248.4

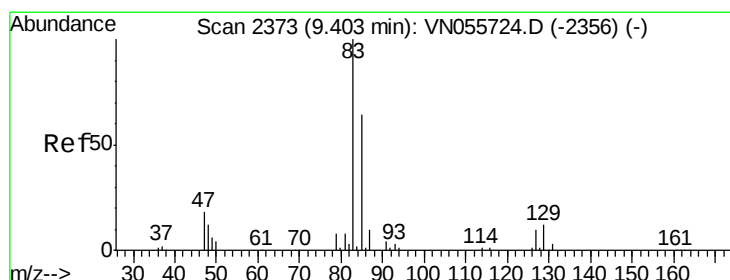
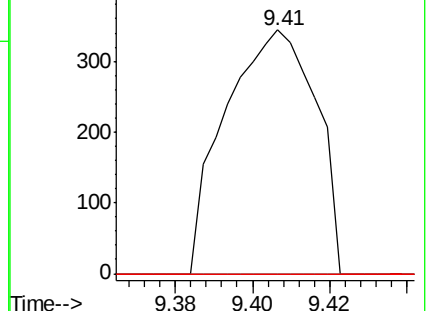
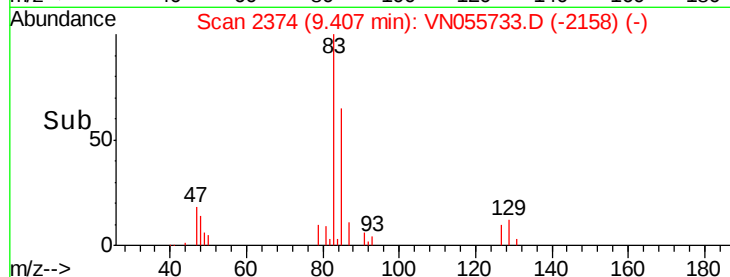


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

Time-->



#41

Bromodichloromethane

Concen: 4.131 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN055733.D

Acq: 22 May 2019 21:57

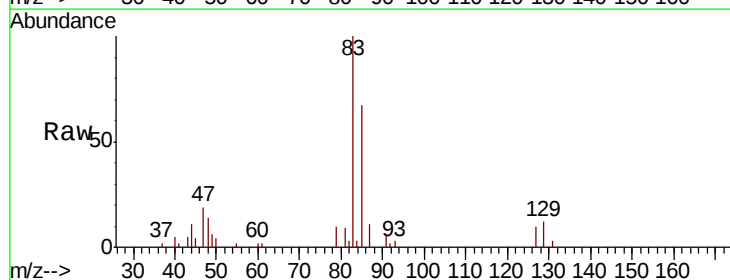
Tgt Ion: 83 Resp: 19355

Ion Ratio Lower Upper

83 100

85 66.6 51.4 77.0

127 10.1 7.7 11.5

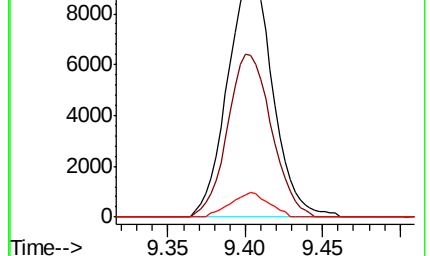
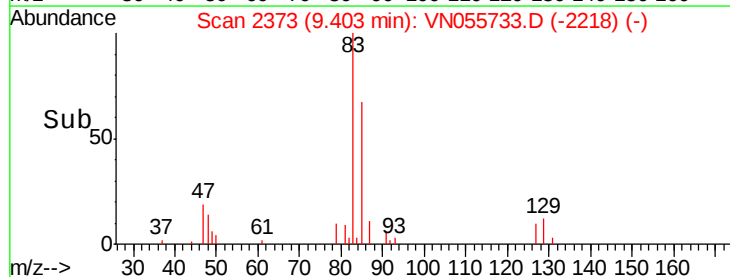


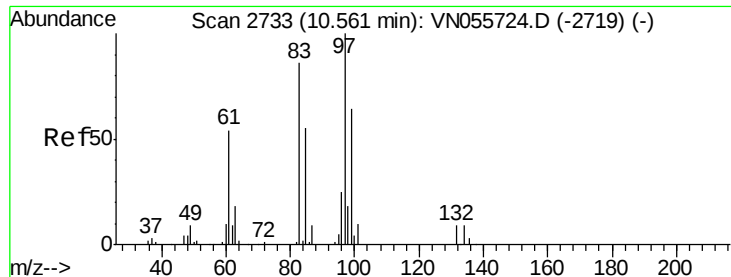
Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

Ion 127.00 (126.70 to 127.70): V

Time-->

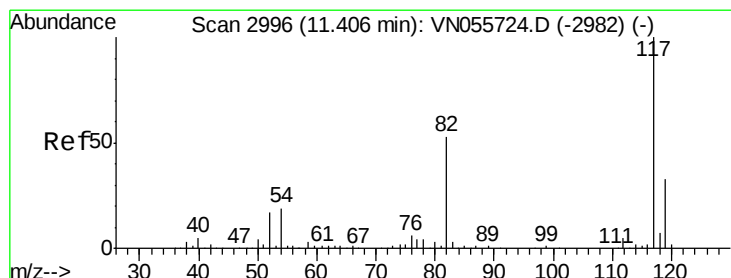
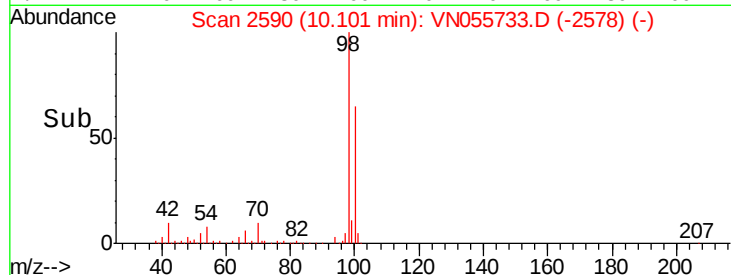
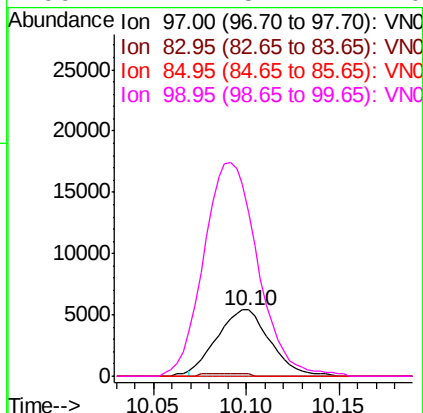
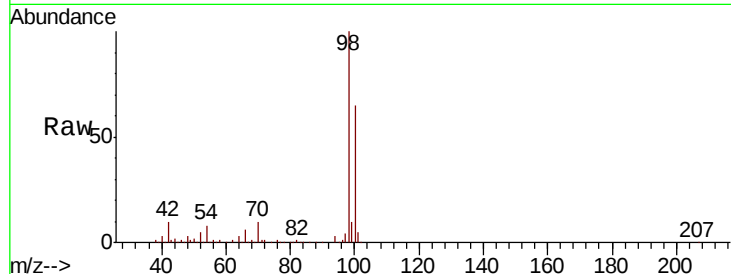




#50
1,1,2-Trichloroethane
Concen: 3.243 ug/l
RT: 10.10 min Scan# 2590
Delta R.T. -0.46 min
Lab File: VN055733.D
Acq: 22 May 2019 21:57

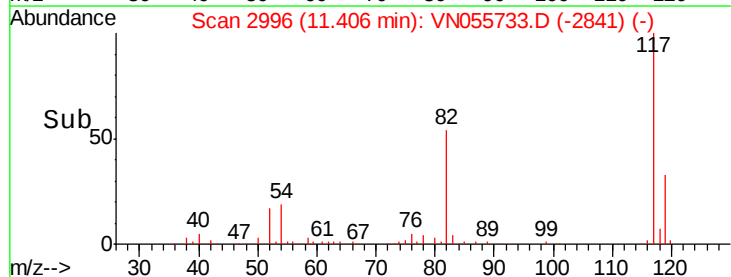
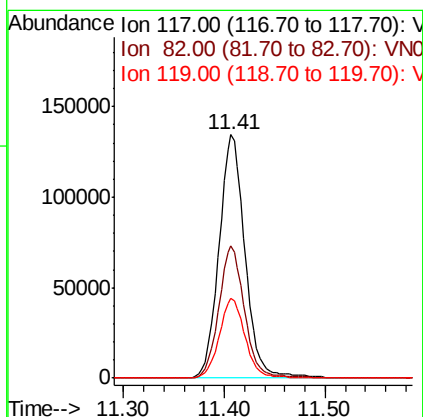
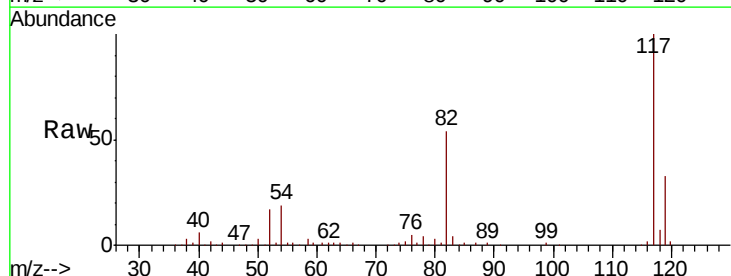
Instrument :
MSVOA_N
ClientSampled :
14B-2

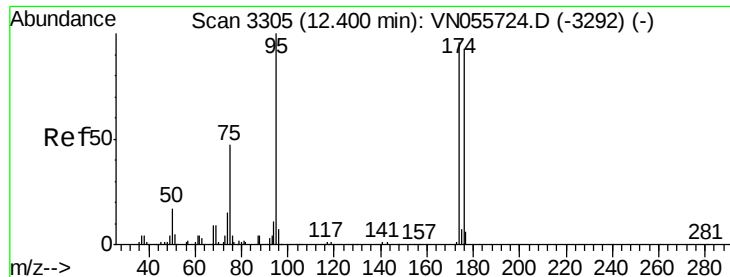
Tot Ion: 97 Resp: 10793
Ion Ratio Lower Upper
97 100
83 3.2 68.9 103.3#
85 0.0 44.3 66.5#
99 244.7 51.4 77.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055733.D
Acq: 22 May 2019 21:57

Tgt Ion: 117 Resp: 241916
Ion Ratio Lower Upper
117 100
82 53.8 42.6 64.0
119 32.3 25.9 38.9





#60

4-Bromofluorobenzene

Concen: 24.530 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055733.D

Acq: 22 May 2019 21:57

Instrument :

MSVOA_N

ClientSampleId :

14B-2

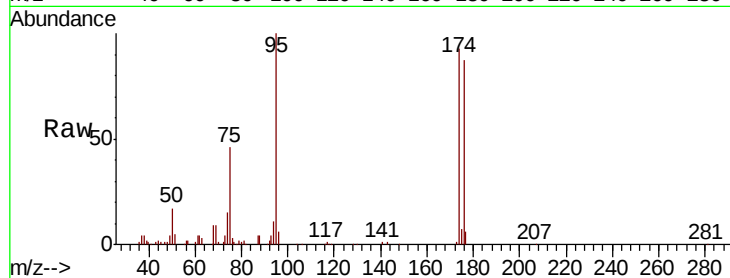
Tot Ion: 95 Resp: 92313

Ion Ratio Lower Upper

95 100

174 92.2 75.7 113.5

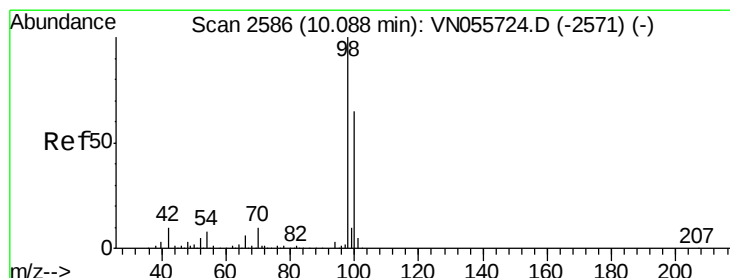
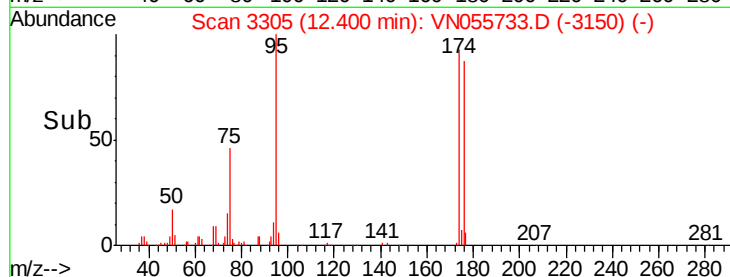
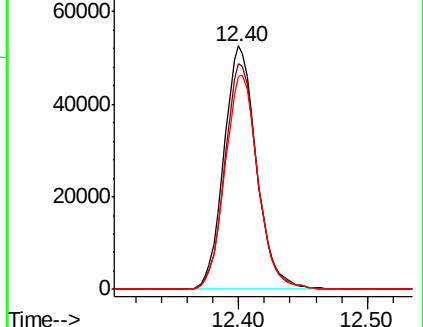
176 89.0 74.1 111.1



Abundance Ion 95.00 (94.70 to 95.70): VN055724.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN055724.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN055724.D (-3292) (-)



#63

Toluene-d8

Concen: 32.594 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055733.D

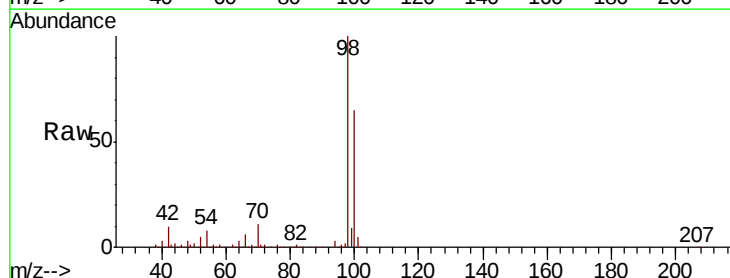
Acq: 22 May 2019 21:57

Tgt Ion: 98 Resp: 360334

Ion Ratio Lower Upper

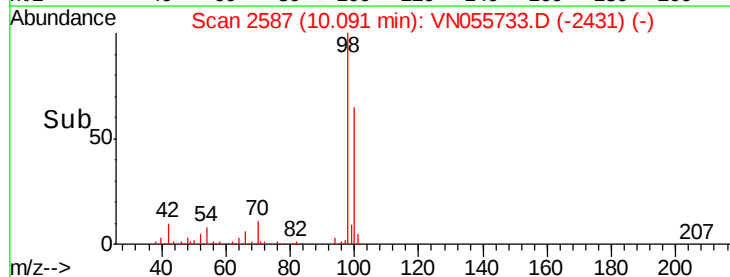
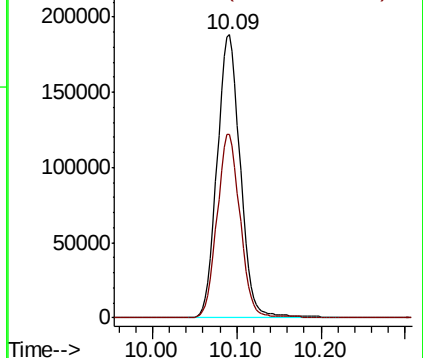
98 100

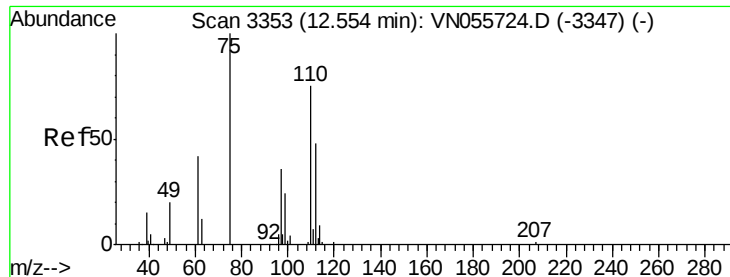
100 64.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN055724.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN055724.D (-2571) (-)





#72

1,2,3-Trichloropropane

Concen: 11.440 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055733.D

Acq: 22 May 2019 21:57

Instrument :

MSVOA_N

ClientSampled :

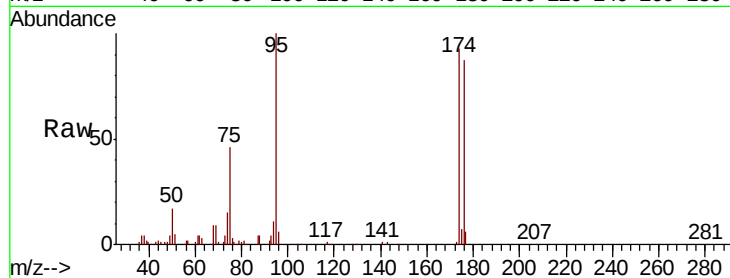
14B-2

Tot Ion: 75 Resp: 42363

Ion Ratio Lower Upper

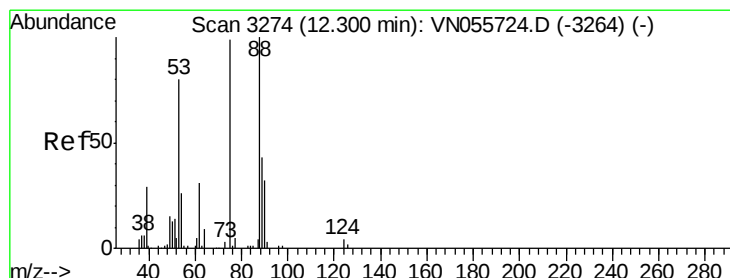
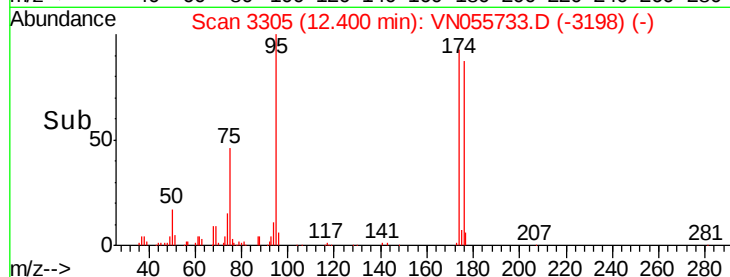
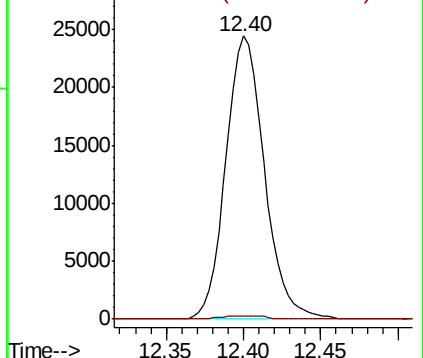
75 100

77 1.1 0.0 349.8



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

t-1,4-Dichloro-2-butene

Concen: 28.801 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055733.D

Acq: 22 May 2019 21:57

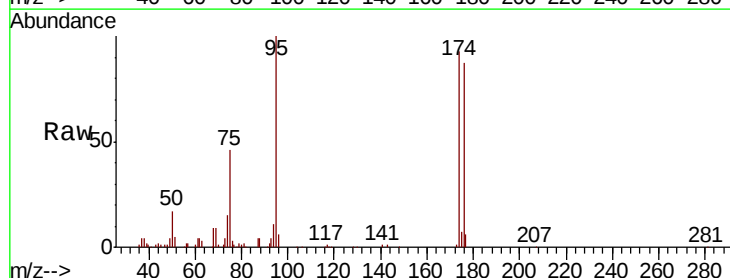
Tgt Ion: 75 Resp: 42363

Ion Ratio Lower Upper

75 100

53 0.0 40.1 120.3#

89 0.0 22.6 67.8#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

