

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080119\
 Data File : VN057026.D
 Acq On : 1 Aug 2019 10:36
 Operator : JC/SP
 Sample : K4079-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TANK-4

Quant Time: Aug 02 05:07:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 04:19:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	76022	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	381638	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	290922	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	145476	29.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.47%
60) 4-Bromofluorobenzene	12.40	95	89265	20.47	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	68.23%
63) Toluene-d8	10.08	98	452200	32.91	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	109.70%

Target Compounds

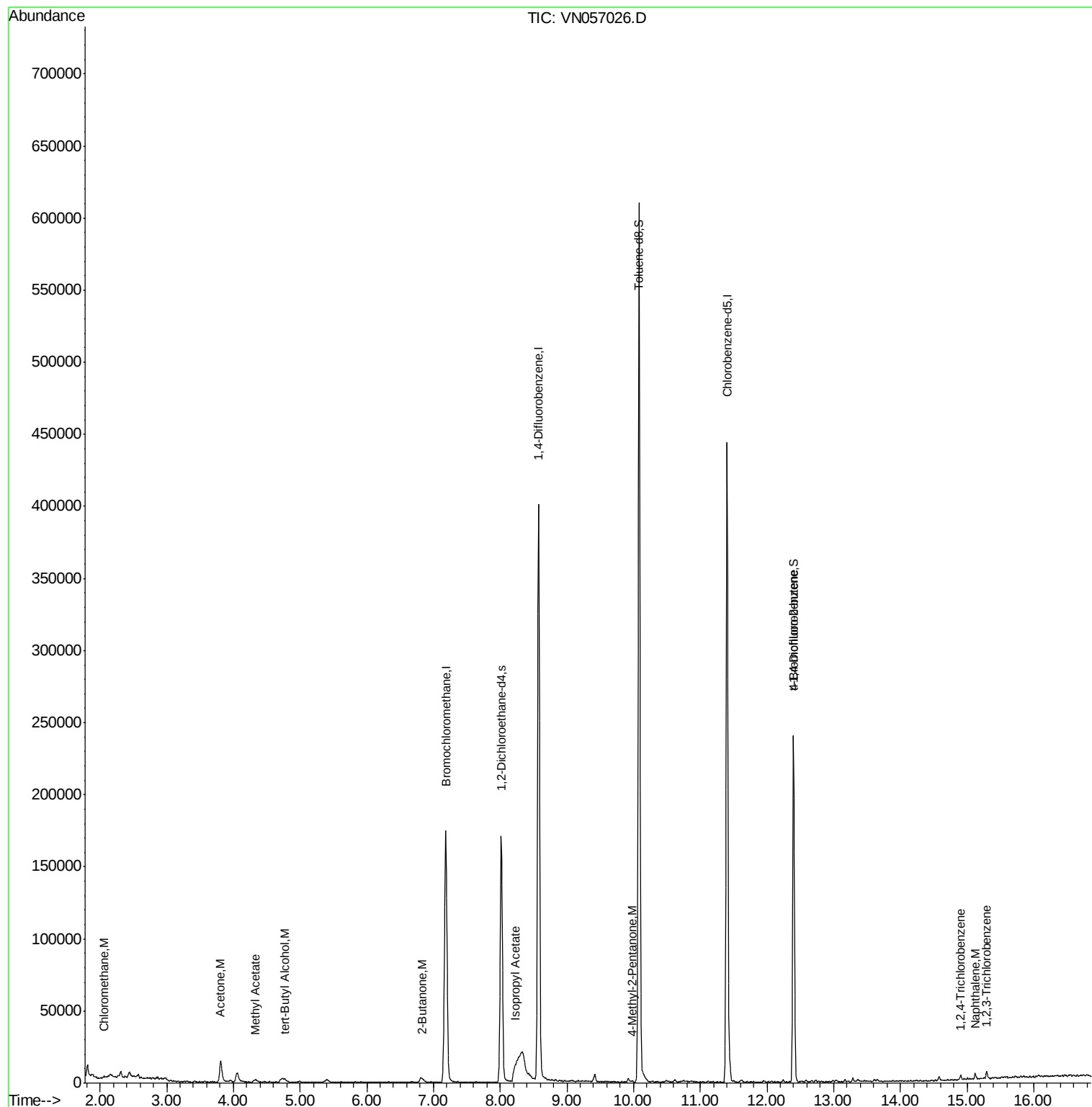
					Ovalue	
3) Chloromethane	2.06	50	1325	0.239	ug/l	92
12) Methyl Acetate	4.32	43	1552	0.312	ug/l	98
15) Acetone	3.81	58	8390	16.941	ug/l	82
23) tert-Butyl Alcohol	4.77	59	247	0.386	ug/l #	100
30) 2-Butanone	6.84	43	2637	1.212	ug/l #	83
44) Isopropyl Acetate	8.22	43	5875	0.790	ug/l #	50
58) 4-Methyl-2-Pentanone	9.98	43	1374	0.352	ug/l #	58
77) t-1,4-Dichloro-2-butene	12.40	75	41132	33.027	ug/l #	11
89) 1,2,4-Trichlorobenzene	14.91	180	1328	8.303	ug/l	96
91) Naphthalene	15.12	128	4378	8.072	ug/l #	81
92) 1,2,3-Trichlorobenzene	15.29	180	1903	0.554	ug/l	69

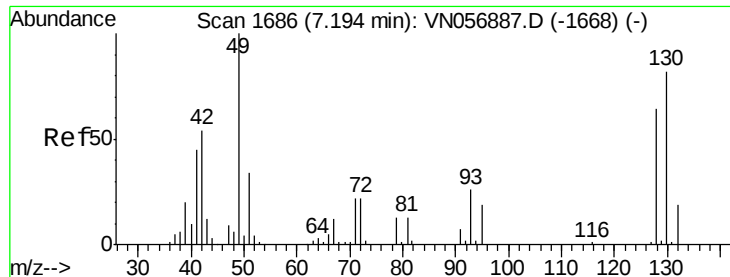
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN080119\
Data File : VN057026.D
Acq On : 1 Aug 2019 10:36
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Sample : K4079-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TANK-4

Quant Time: Aug 02 05:07:39 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jul 24 04:19:57 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VN057026.D

Acq: 1 Aug 2019 10:36

Instrument :

MSVOA_N

ClientSampled :

TANK-4

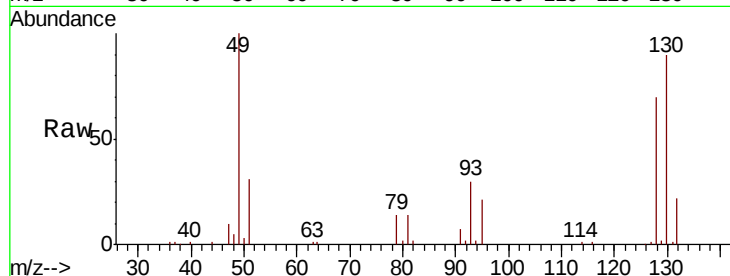
Tot Ion:128 Resp: 76022

Ion Ratio Lower Upper

128 100

49 142.2 0.0 385.8

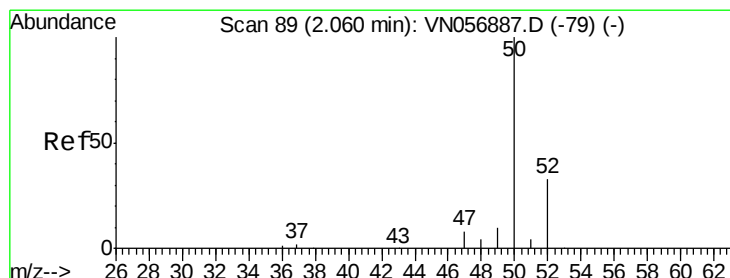
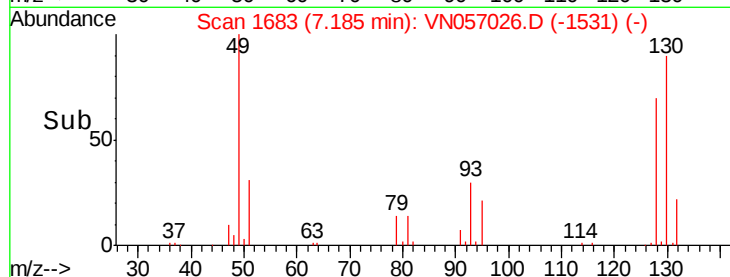
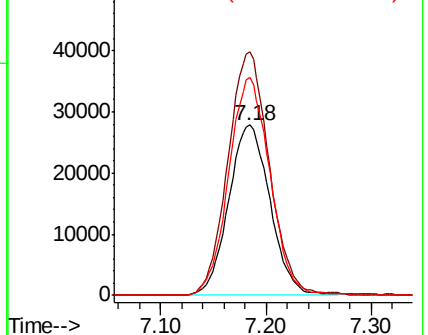
130 126.9 0.0 322.5



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



#3

Chloromethane

Concen: 0.239 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN057026.D

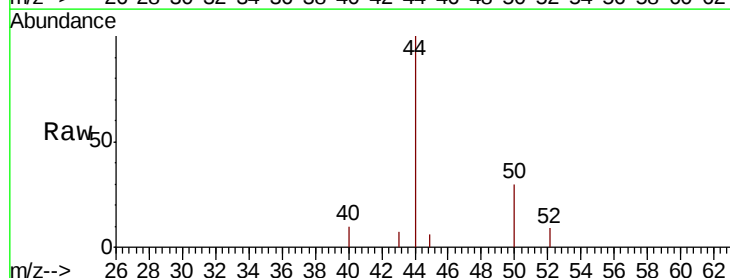
Acq: 1 Aug 2019 10:36

Tgt Ion: 50 Resp: 1325

Ion Ratio Lower Upper

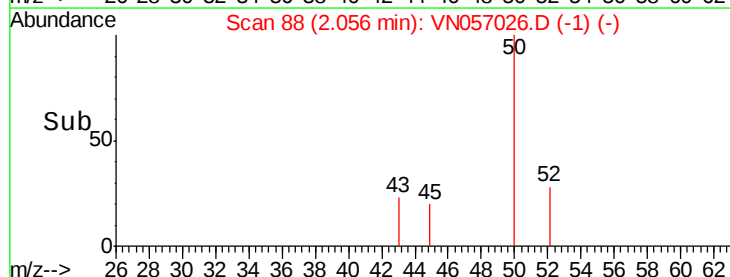
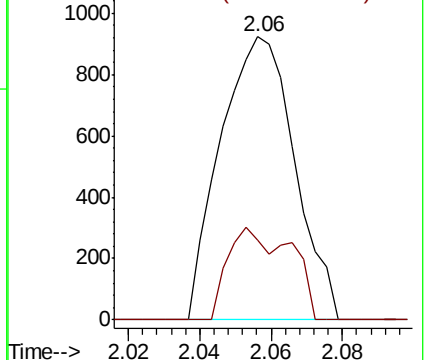
50 100

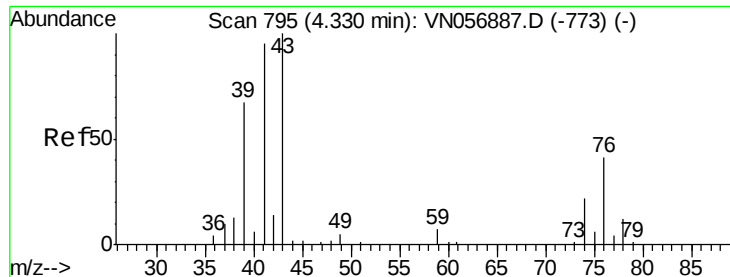
52 28.4 26.2 39.2



Abundance Ion 50.00 (49.70 to 50.70): VN

Ion 52.00 (51.70 to 52.70): VN

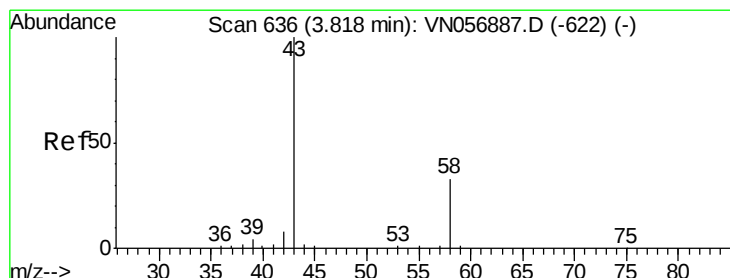
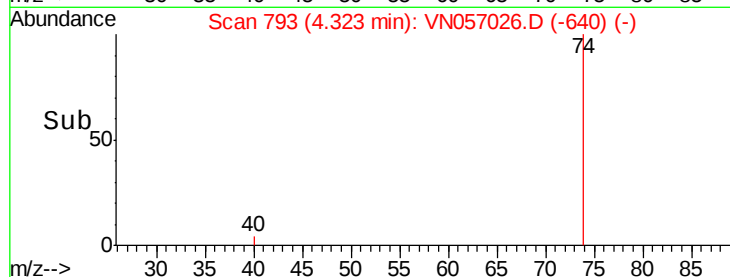
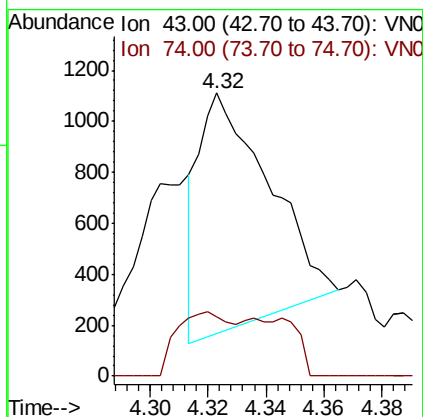
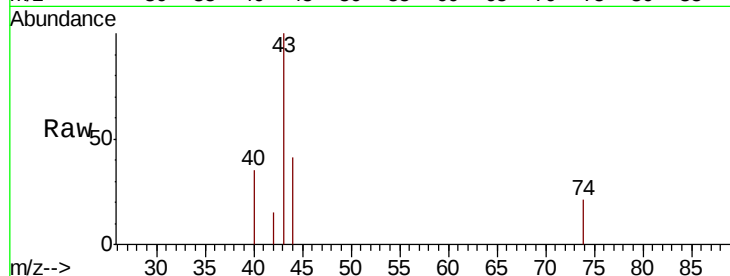




#12
Methvl Acetate
Concen: 0.312 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.01 min
Lab File: VN057026.D
Acq: 1 Aug 2019 10:36

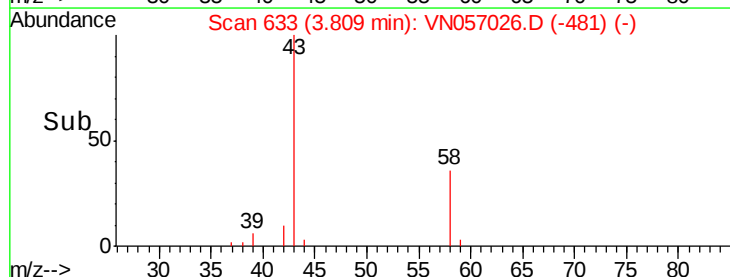
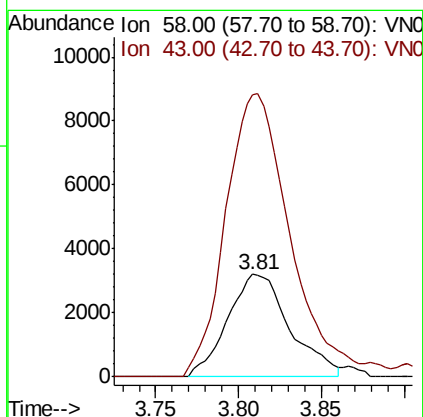
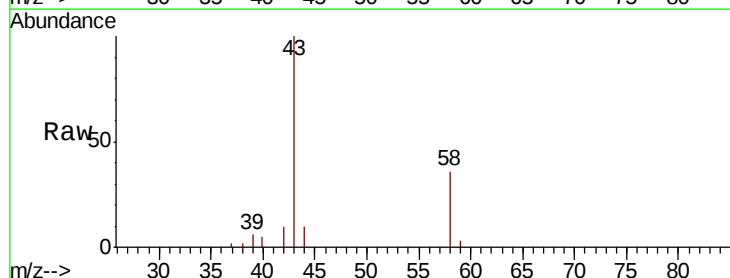
Instrument :
MSVOA_N
ClientSampled :
TANK-4

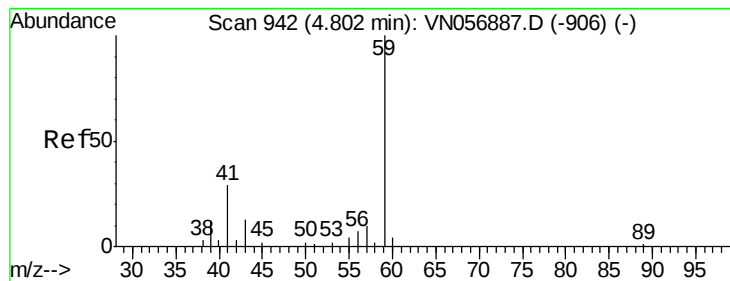
Tot Ion: 43 Resp: 1552
Ion Ratio Lower Upper
43 100
74 21.7 18.1 27.1



#15
Acetone
Concen: 16.941 ug/l
RT: 3.81 min Scan# 633
Delta R.T. -0.01 min
Lab File: VN057026.D
Acq: 1 Aug 2019 10:36

Tgt Ion: 58 Resp: 8390
Ion Ratio Lower Upper
58 100
43 266.8 242.4 363.6





#23

tert-Butyl Alcohol

Concen: 0.386 ug/l

RT: 4.77 min Scan# 932

Delta R.T. -0.03 min

Lab File: VN057026.D

Acq: 1 Aug 2019 10:36

Instrument :

MSVOA_N

ClientSampled :

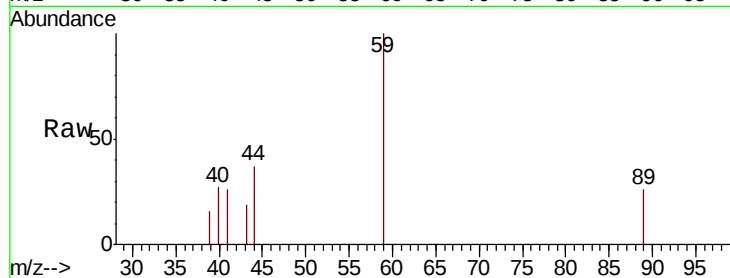
TANK-4

Tot Ion: 59 Resp: 247

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

4.77

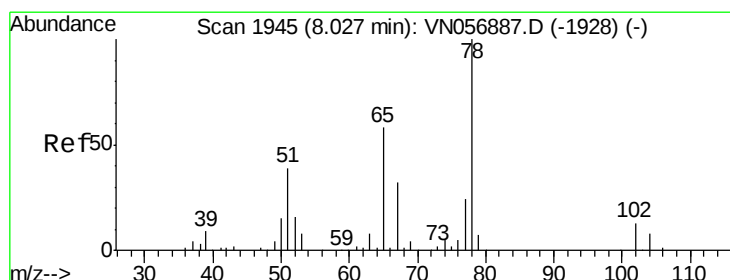
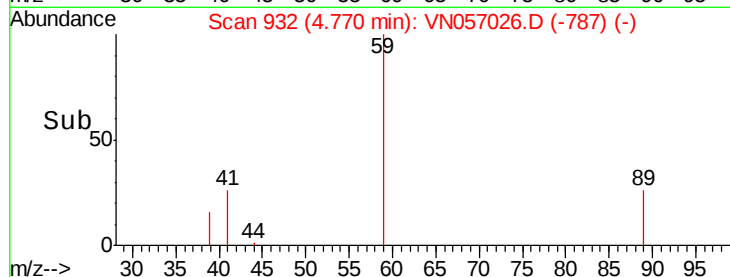
1000

500

0

Time-->

4.76 4.77 4.78



#27

1,2-Dichloroethane-d4

Concen: 29.240 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. -0.01 min

Lab File: VN057026.D

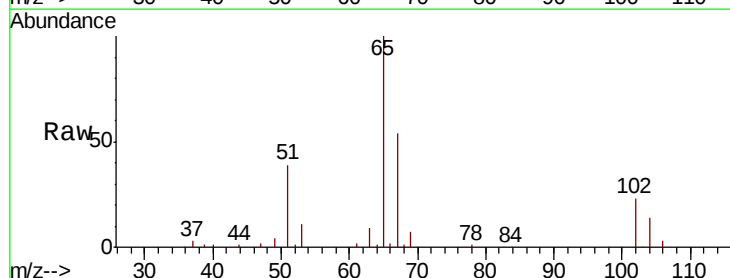
Acq: 1 Aug 2019 10:36

Tgt Ion: 65 Resp: 145476

Ion Ratio Lower Upper

65 100

67 54.1 44.6 66.8



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

8.02

60000

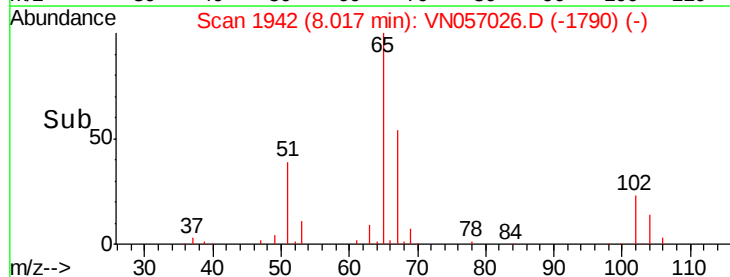
40000

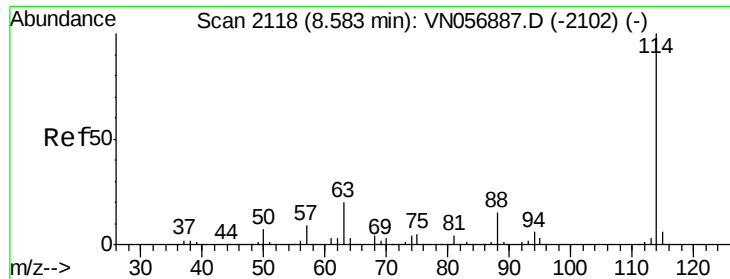
20000

0

Time-->

7.95 8.00 8.05 8.10

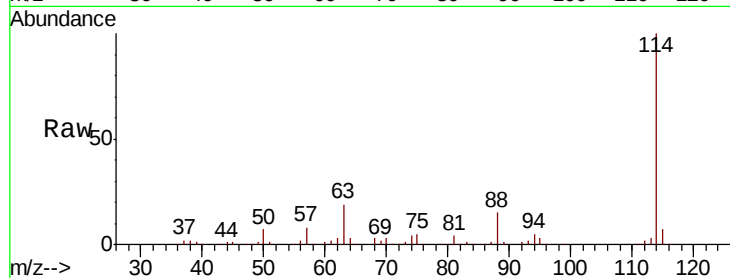




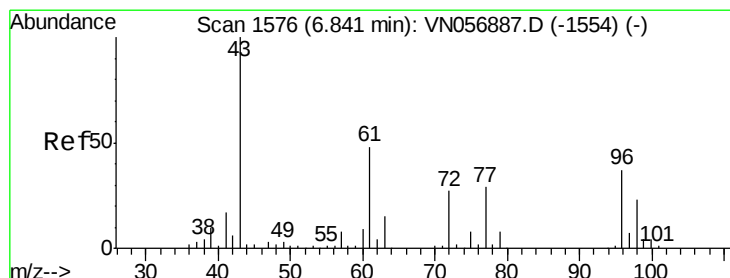
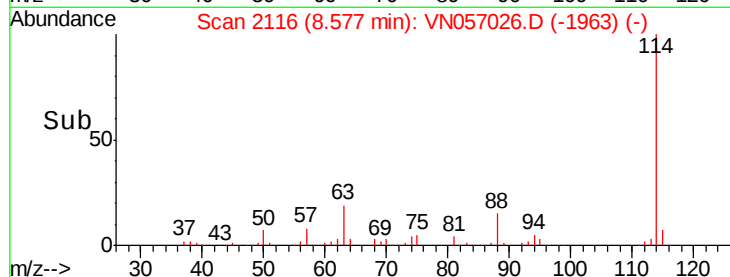
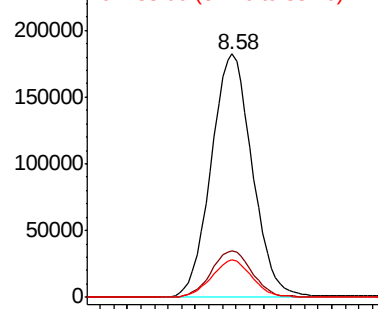
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. -0.01 min
 Lab File: VN057026.D
 Acq: 1 Aug 2019 10:36

Instrument :
 MSVOA_N
 ClientSampleId :
 TANK-4

Tot Ion:114 Resp: 381638
 Ion Ratio Lower Upper
 114 100
 63 19.0 15.8 23.6
 88 15.2 12.5 18.7

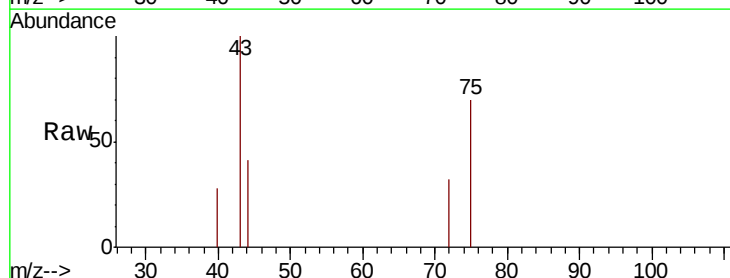


Abundance Ion 114.00 (113.70 to 114.70): VN056887.D (-2102) (-)
 Ion 63.00 (62.70 to 63.70): VN056887.D (-2102) (-)
 Ion 88.00 (87.70 to 88.70): VN056887.D (-2102) (-)

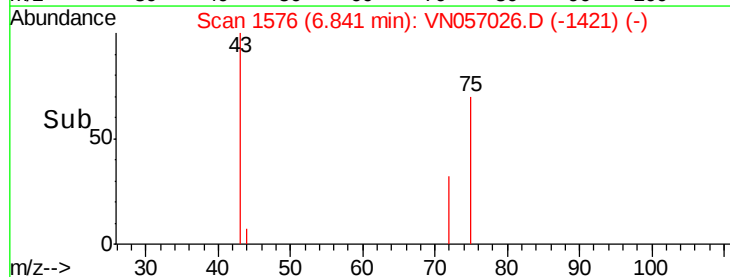
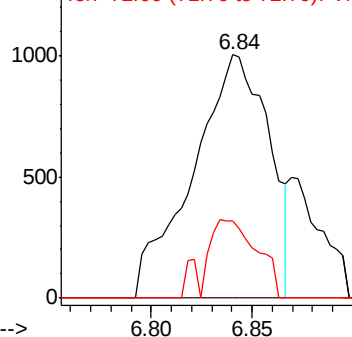


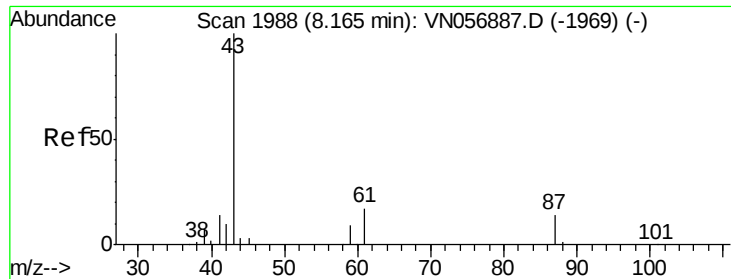
#30
 2-Butanone
 Concen: 1.212 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VN057026.D
 Acq: 1 Aug 2019 10:36

Tgt Ion: 43 Resp: 2637
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.5 9.7#
 72 19.7 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN056887.D (-1554) (-)
 Ion 57.00 (56.70 to 57.70): VN056887.D (-1554) (-)
 Ion 72.00 (71.70 to 72.70): VN056887.D (-1554) (-)





#44

Isopropyl Acetate

Concen: 0.790 ug/l

RT: 8.22 min Scan# 2004

Delta R.T. 0.05 min

Lab File: VN057026.D

Acq: 1 Aug 2019 10:36

Instrument :

MSVOA_N

ClientSampled :

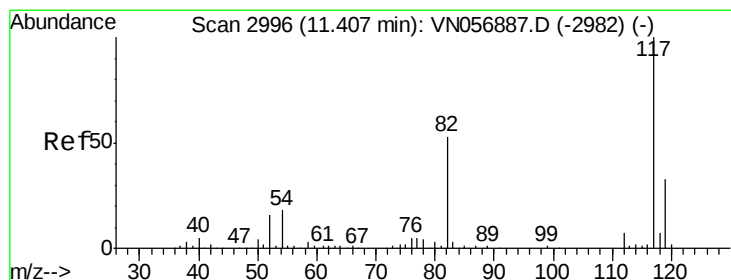
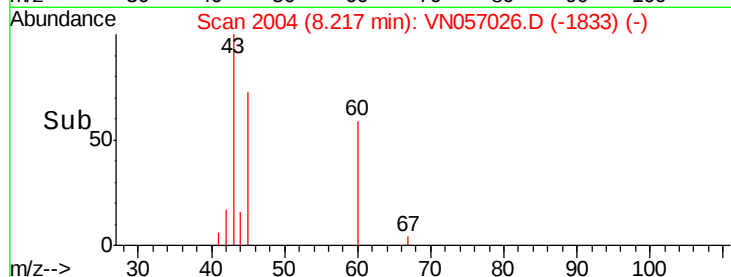
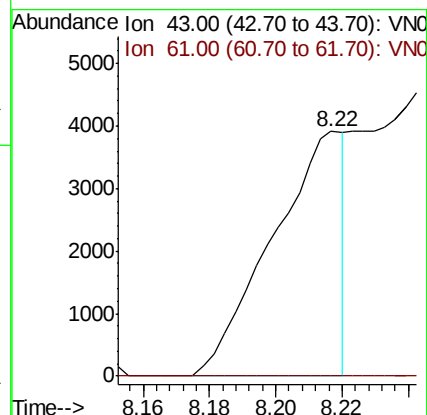
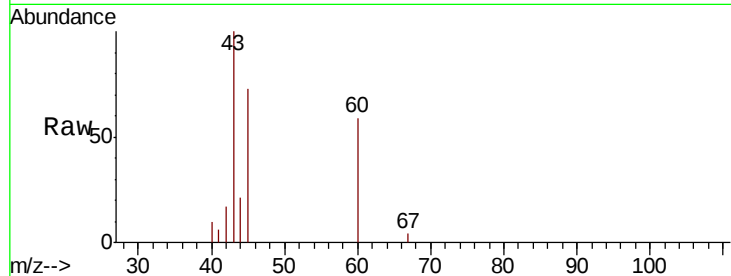
TANK-4

Tot Ion: 43 Resp: 5875

Ion Ratio Lower Upper

43 100

61 1.9 23.0 34.4#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN057026.D

Acq: 1 Aug 2019 10:36

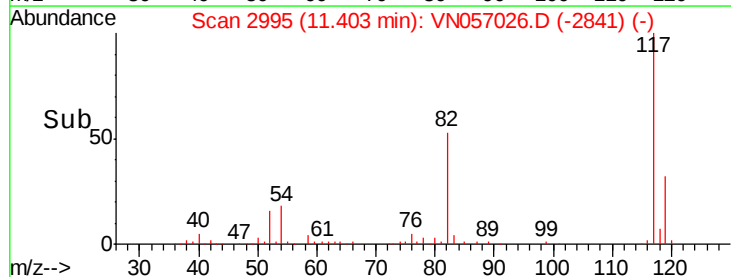
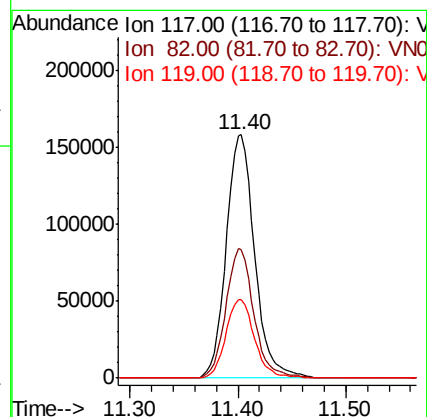
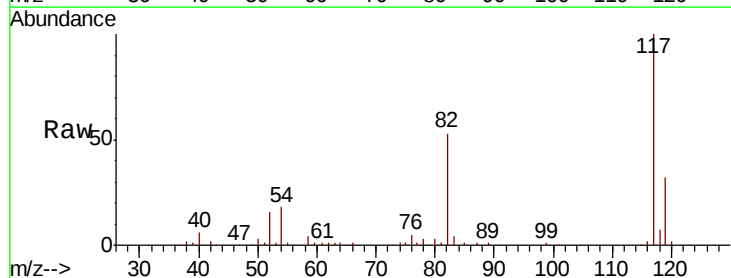
Tgt Ion: 117 Resp: 290922

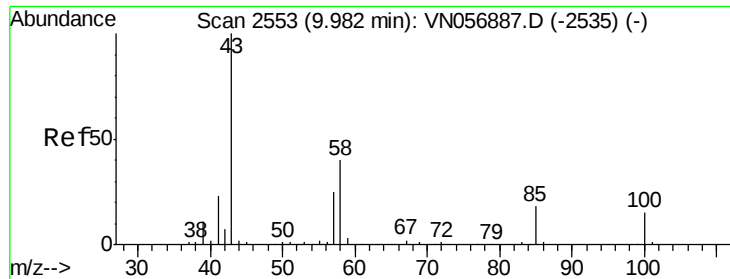
Ion Ratio Lower Upper

117 100

82 52.5 43.0 64.4

119 32.7 26.2 39.2

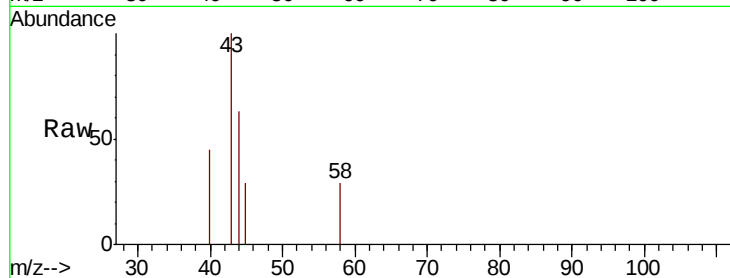




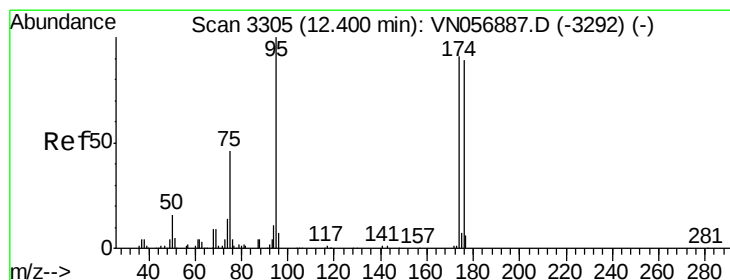
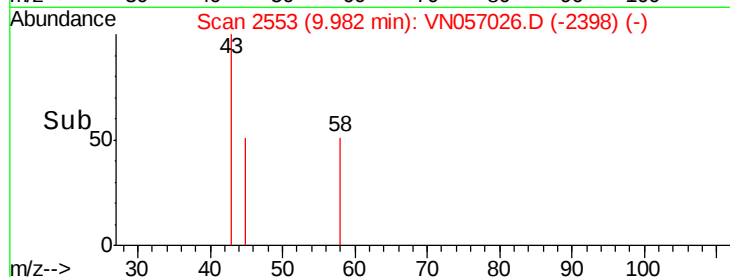
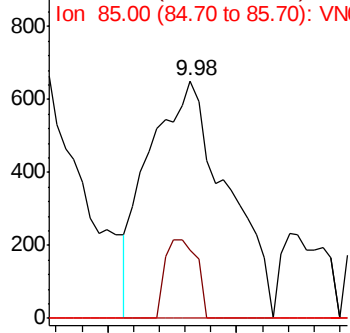
#58
4-Methyl-2-Pentanone
Concen: 0.352 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN057026.D
Acq: 1 Aug 2019 10:36

Instrument :
MSVOA_N
ClientSampled :
TANK-4

Tot Ion: 43 Resp: 1374
Ion Ratio Lower Upper
43 100
58 13.3 31.7 47.5#
85 0.0 14.5 21.7#

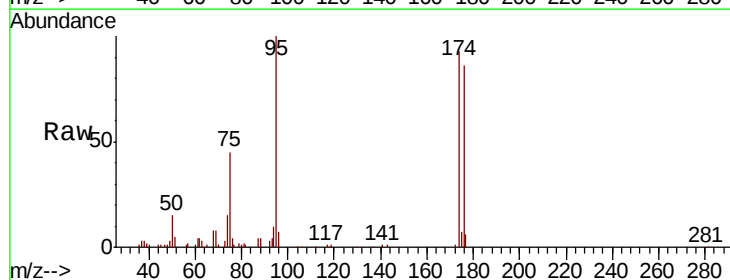


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 85.00 (84.70 to 85.70): VN0

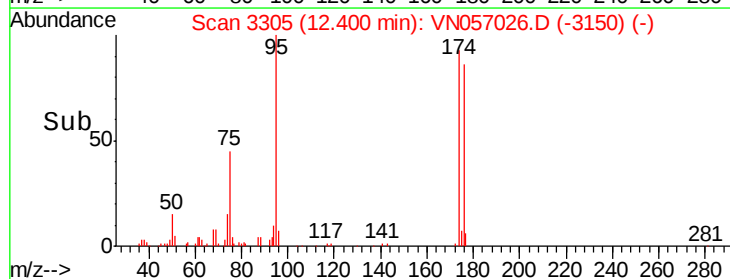
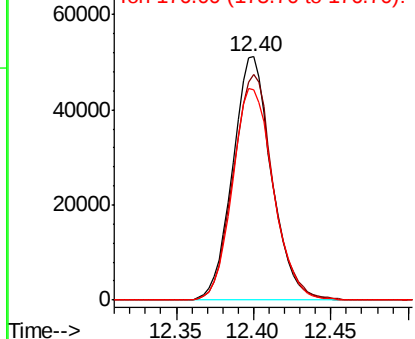


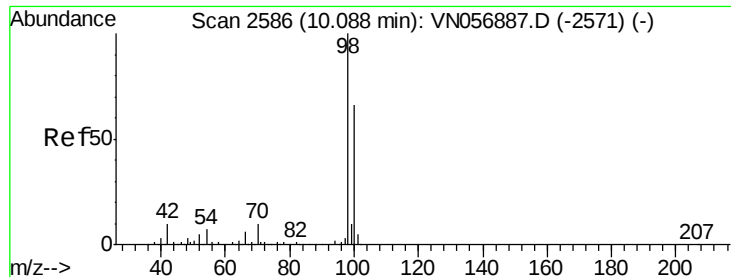
#60
4-Bromofluorobenzene
Concen: 20.472 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN057026.D
Acq: 1 Aug 2019 10:36

Tgt Ion: 95 Resp: 89265
Ion Ratio Lower Upper
95 100
174 95.3 71.9 107.9
176 91.4 69.8 104.8



Abundance Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#63

Toluene-d8

Concen: 32.905 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.01 min

Lab File: VN057026.D

Acq: 1 Aug 2019 10:36

Instrument :

MSVOA_N

ClientSampled :

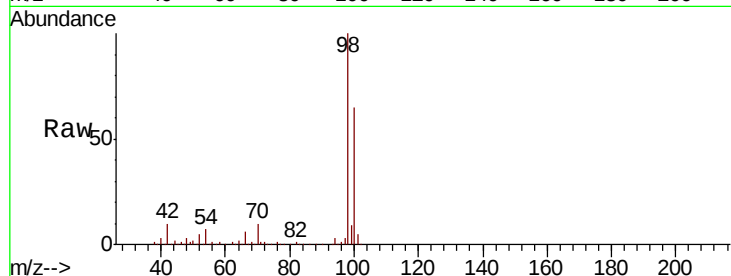
TANK-4

Tot Ion: 98 Resp: 452200

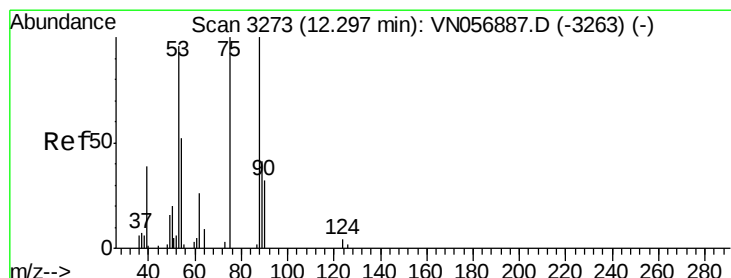
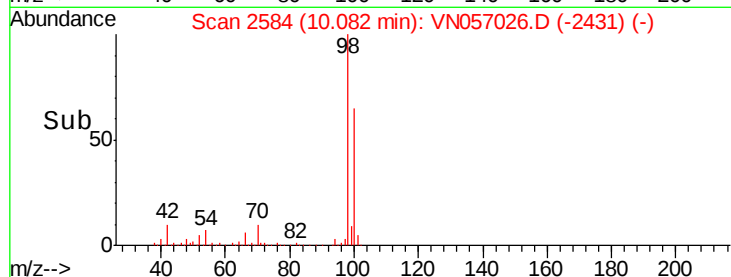
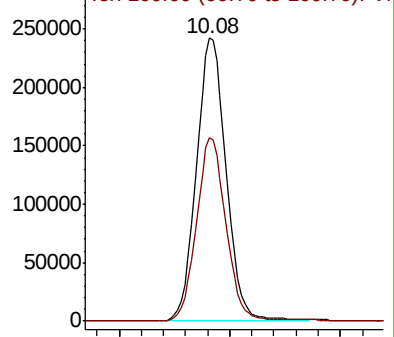
Ion Ratio Lower Upper

98 100

100 64.0 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN056887.D (-2571) (-)



#77

t-1,4-Dichloro-2-butene

Concen: 33.027 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN057026.D

Acq: 1 Aug 2019 10:36

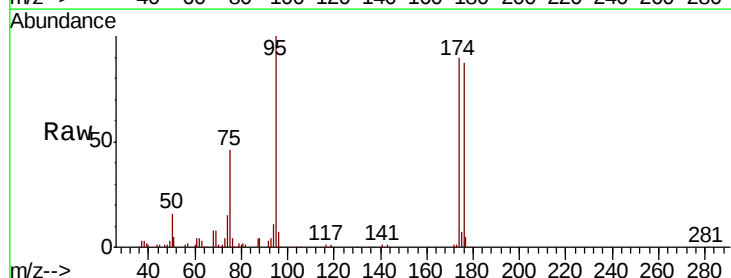
Tgt Ion: 75 Resp: 41132

Ion Ratio Lower Upper

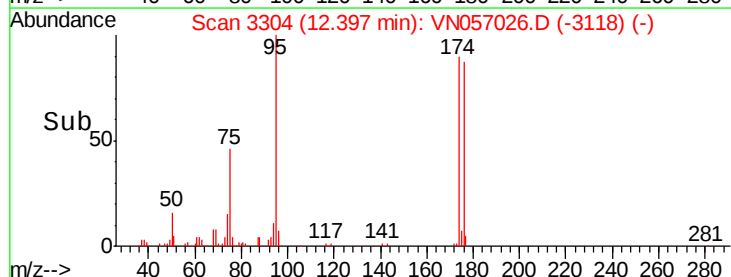
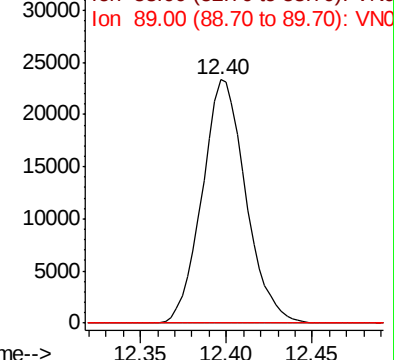
75 100

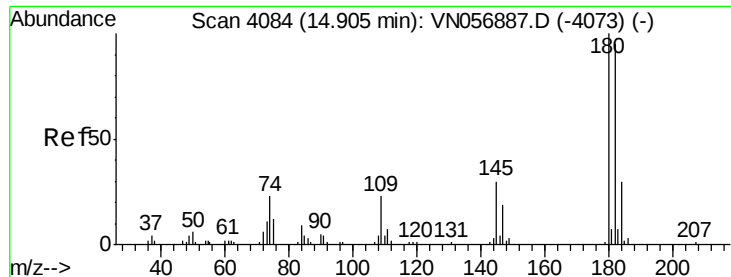
53 0.0 48.0 144.0#

89 0.0 21.4 64.3#



Abundance Ion 75.00 (74.70 to 75.70): VN056887.D (-3263) (-)

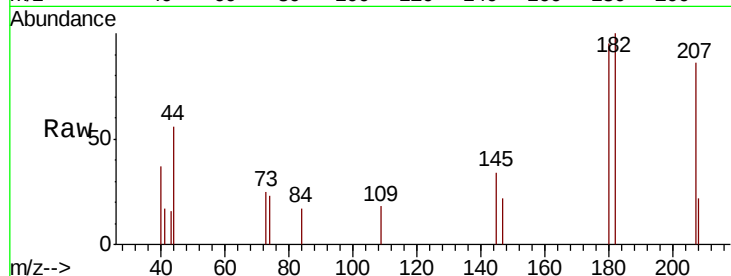




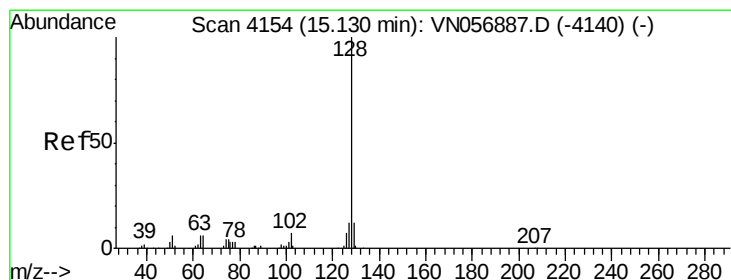
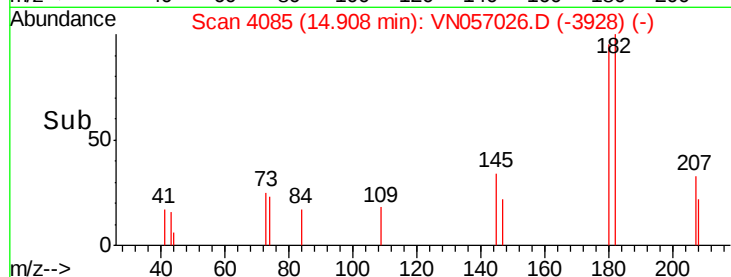
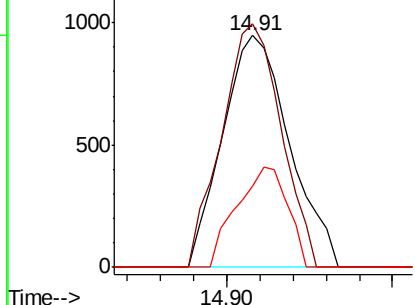
#89
 1,2,4-Trichlorobenzene
 Concen: 8.303 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN057026.D
 Acq: 1 Aug 2019 10:36

Instrument :
 MSVOA_N
 ClientSampled :
 TANK-4

Tot Ion:180 Resp: 1328
 Ion Ratio Lower Upper
 180 100
 182 92.9 77.0 115.4
 145 32.8 23.5 35.3

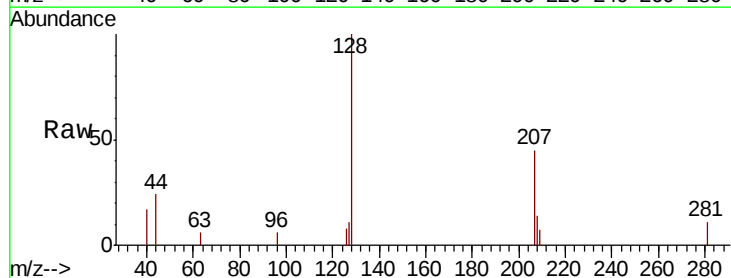


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

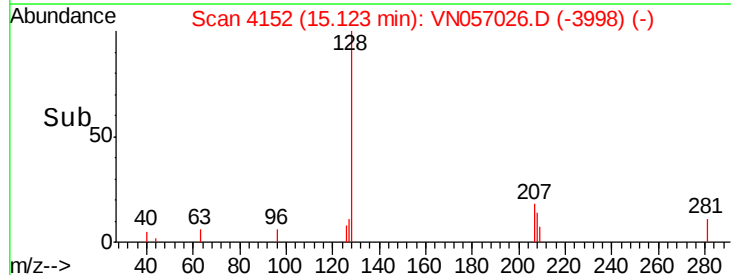
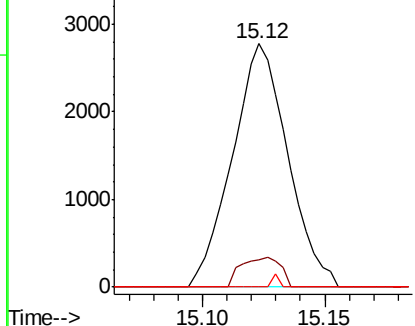


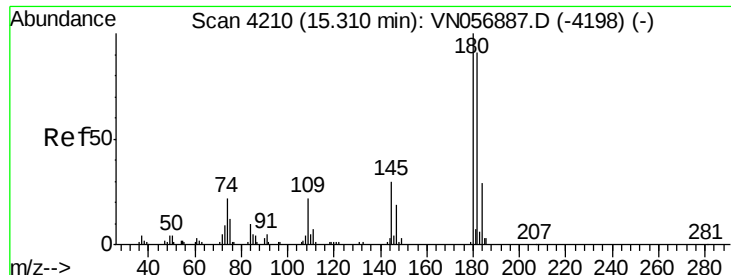
#91
 Naphthalene
 Concen: 8.072 ug/l
 RT: 15.12 min Scan# 4152
 Delta R.T. -0.01 min
 Lab File: VN057026.D
 Acq: 1 Aug 2019 10:36

Tgt Ion:128 Resp: 4378
 Ion Ratio Lower Upper
 128 100
 127 8.7 10.0 15.0#
 129 0.0 8.9 13.3#



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

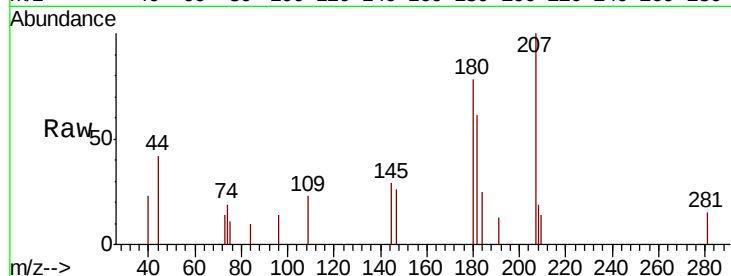




#92
 1,2,3-Trichlorobenzene
 Concen: 0.554 ug/l
 RT: 15.29 min Scan# 4205
 Delta R.T. -0.02 min
 Lab File: VN057026.D
 Acq: 1 Aug 2019 10:36

Instrument :
 MSVOA_N
 ClientSampleId :
 TANK-4

Tot Ion	Ratio	Lower	Upper
180	100		
182	55.8	0.0	188.0
145	33.7	0.0	61.0



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

