

Data File : VN051661.D
Acq On : 4 Oct 2018 12:30
Operator : MD\SY
Sample : VSTDICC150
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Quant Time: Oct 05 01:59:07 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 05 01:55:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	723299	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1084087	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1055689	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	630792	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	1392344	145.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	291.44%	
35) Dibromofluoromethane	7.59	113	1310962	156.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	312.82%	
50) Toluene-d8	10.09	98	4936447	157.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	315.76%	
62) 4-Bromofluorobenzene	12.40	95	1840194	166.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	332.52%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.85	85	1393139	162.305	ug/l	99
3) Chloromethane	2.06	50	1142884	138.458	ug/l	100
4) Vinyl Chloride	2.18	62	1793074	137.900	ug/l	99
5) Bromomethane	2.55	94	1387864	138.794	ug/l	99
6) Chloroethane	2.69	64	1160982	132.850	ug/l	100
7) Trichlorofluoromethane	3.00	101	2027923	136.796	ug/l	99
8) Diethyl Ether	3.41	74	532152	140.444	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	998401	138.148	ug/l	100
10) Methyl Iodide	3.95	142	1489979	169.130	ug/l	100
11) Tert butyl alcohol	4.80	59	466013	774.445	ug/l	100
12) 1,1-Dichloroethene	3.73	96	932711	138.470	ug/l	98
13) Acrolein	3.61	56	318008	783.853	ug/l	98
14) Allyl chloride	4.32	41	1466176	142.714	ug/l	97
15) Acrylonitrile	4.99	53	1663902	742.525	ug/l	99
16) Acetone	3.82	43	1139926	651.851	ug/l	98
17) Carbon Disulfide	4.05	76	2939644	143.575	ug/l	100
18) Methyl Acetate	4.33	43	769809	145.963	ug/l	97
19) Methyl tert-butyl Ether	5.05	73	3294115	148.159	ug/l	100
20) Methylene Chloride	4.55	84	1159666	147.514	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	1202998	150.714	ug/l	93
22) Diisopropyl ether	5.95	45	3126328	141.962	ug/l	95
23) Vinyl Acetate	5.90	43	11552545	713.443	ug/l	96
24) 1,1-Dichloroethane	5.85	63	2029236	143.274	ug/l	99
25) 2-Butanone	6.84	43	1872763	678.743	ug/l	98
26) 2,2-Dichloropropane	6.83	77	2021133	142.400	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	1358819	146.644	ug/l	96
28) Bromochloromethane	7.20	49	886463	141.374	ug/l	89
29) Tetrahydrofuran	7.21	42	1205897	712.196	ug/l	94
30) Chloroform	7.37	83	2361422	148.393	ug/l	100
31) Cyclohexane	7.65	56	1761350	135.791	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	2283406	148.037	ug/l	98
36) 1,1-Dichloropropene	7.79	75	1703403	150.326	ug/l	99
37) Ethyl Acetate	6.93	43	864304	146.247	ug/l	98
38) Carbon Tetrachloride	7.77	117	2087249	153.508	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	2145247	150.819	ug/l	97
40) Benzene	8.04	78	5015969	149.322	ug/l	98
41) Methacrylonitrile	7.18	41	461400	142.181	ug/l	97
42) 1,2-Dichloroethane	8.12	62	1658452	146.498	ug/l	100
43) Isopropyl Acetate	8.17	43	1750652	142.079	ug/l	96
44) Trichloroethene	8.83	130	1444844	151.483	ug/l	98
45) 1,2-Dichloropropane	9.12	63	1191780	143.498	ug/l	100
46) Dibromomethane	9.21	93	884232	153.173	ug/l	99
47) Bromodichloromethane	9.40	83	1915799	150.756	ug/l	99
48) Methyl methacrylate	9.20	41	814624	144.686	ug/l	96
49) 1,4-Dioxane	9.20	88	263300	3118.753	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	4454483	713.435	ug/l	98
52) Toluene	10.16	92	3472777	155.437	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	2025469	154.464	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	2119117	152.185	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	1207100	151.666	ug/l	98
56) Ethyl methacrylate	10.43	69	1560732	155.066	ug/l	95
57) 1,3-Dichloropropane	10.71	76	1911394	151.738	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	3344918	802.997	ug/l	97
59) 2-Hexanone	10.75	43	3017227	711.559	ug/l	100
60) Dibromochloromethane	10.90	129	1647586	158.186	ug/l	100
61) 1,2-Dibromoethane	11.01	107	1320446	156.939	ug/l	100
64) Tetrachloroethene	10.63	164	1367458	146.821	ug/l	99
65) Chlorobenzene	11.43	112	3923976	150.080	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	1573703	150.322	ug/l	99
67) Ethyl Benzene	11.51	91	6745320	149.260	ug/l	99
68) m/p-Xylenes	11.62	106	5526062	305.612	ug/l	98
69) o-Xylene	11.95	106	2678887	151.068	ug/l	99
70) Styrene	11.96	104	4496528	159.131	ug/l	98
71) Bromoform	12.13	173	1259519	161.750	ug/l	99
73) Isopropylbenzene	12.25	105	7292076	135.613	ug/l	100
74) N-amyl acetate	12.07	43	1604445	130.842	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	1485666	128.177	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	1940169	219.295	ug/l #	100
77) Bromobenzene	12.53	156	1849522	140.673	ug/l	96
78) n-propylbenzene	12.59	91	8100134	138.112	ug/l	99
79) 2-Chlorotoluene	12.67	91	4698717	135.938	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	6192873	136.663	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	495799	144.481	ug/l	97
82) 4-Chlorotoluene	12.77	91	4926503	141.879	ug/l	98
83) tert-Butylbenzene	12.99	119	5452508	134.284	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	6246277	137.615	ug/l	99
85) sec-Butylbenzene	13.17	105	7369248	137.203	ug/l	100
86) p-Isopropyltoluene	13.29	119	6749373	141.748	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	3458046	150.941	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	3368955	149.398	ug/l	99
89) n-Butylbenzene	13.62	91	5583732	148.316	ug/l	100
90) Hexachloroethane	13.88	117	1290592	135.851	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	3292825	144.581	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	256476	135.780	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN100418\
Quantitation Report (Not Reviewed)

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	1794060	177.027	ug/l	99
94) Hexachlorobutadiene	15.01	225	960681	139.714	ug/l	99
95) Naphthalene	15.13	128	3885787	177.556	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	1673898	167.709	ug/l	99

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Abundance

TIC: VN051661.D

Time-->

2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00

2.2e+07

2.1e+07

2e+07

1.9e+07

1.8e+07

1.7e+07

1.6e+07

1.5e+07

1.4e+07

1.3e+07

1.2e+07

1.1e+07

1e+07

900000

800000

700000

600000

500000

400000

300000

200000

100000

0

Dichlorodifluoromethane, T

Chloroethane, P

Vinyl Chloride, C

Bromomethane, T

Chloroethane, T

Trichlorofluoromethane, T

Diethyl Ether, T

Acrolein, T

1,1,1-Trichloroethane, T

Acetone, T

Methyl iodide, T

Methyl acetate, T

Methylene Chloride, T

Tert butyl alcohol, T

Acrylonitrile, T

Methyl 2-Dibromodifluoromethane, T

1,1-Dichloroethane, P

Diisopropyl ether, T

Vinyl Acetate, T

2,2,4,4-Tetrafluoropropane, T

Ethyl Acetate, T

Methoxybenzene, T

Chloroform, C

Dichloromethane, T

Carbon tetrachloride, T

1,1,2,2-Tetrafluoroethane-d4, S

Isopropyl acetate, T

1,4-Difluorobenzene, I

Trichloroethene, TM

1,2-Dichloroethane, T

Methylcyclohexane, T

Bromodichloromethane, T

cis-1,3-Dichloropropene, T

2-Chloroethyl Vinyl ether, T

4-Methyl-2-Pentanone, T

Toluene, CM

Ethyl 1,1,1-Trichloropropene, T

1,2-Dichloroethane, T

1,3-Dichloropropene, T

Trichloroethene, T

1,2-Dibromodifluoromethane, T

Chlorobenzene, d5, I

Chlorobenzene, PM

Ethyl 2-Bromodifluoromethane, T

m,p-Xylenes, T

600000

Isopropylbenzene, T

4-Bromofluorobenzene, S

trans-1,4-Dichloro-2-butene, T

1,2,3-Trichlorobenzene, T

1,2,4-Trichlorobenzene, T

2-Chlorotoluene, T

1,3,5-Trimethylbenzene, T

tert-Butylbenzene, T

sec-Butylbenzene, T

1,4-Dienebenzene, T

1,2-Dichlorobenzene, T

1,2-Dichlorobenzene, T

Hexachloroethane, T

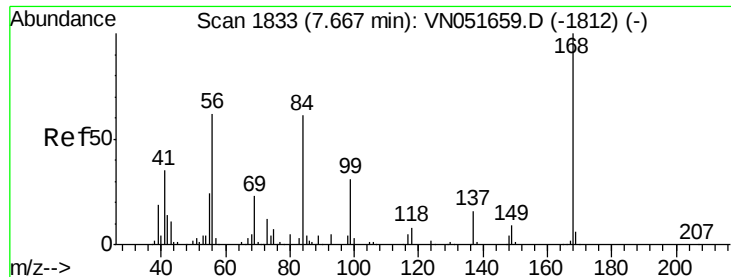
1,2-Dibromo-3-Chloropropane, T

1,2,4-Trichlorobenzene, T

Hexachlorocyclopentadiene, T

Naphthalene, T

1,2,3-Trichlorobenzene, T



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

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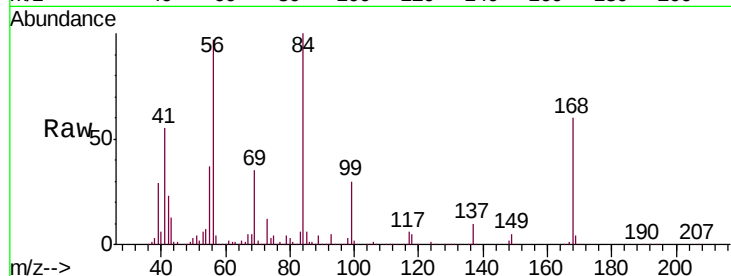
VSTDIC150

Tgt Ion:168 Resp: 723299

Ion Ratio Lower Upper

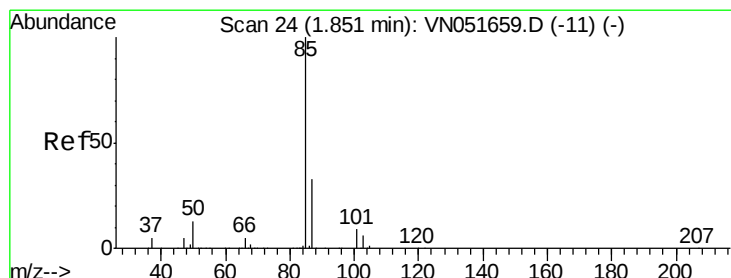
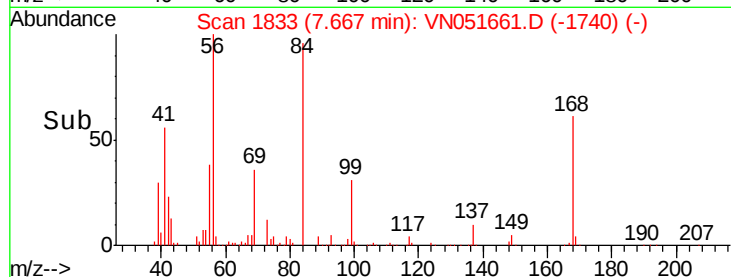
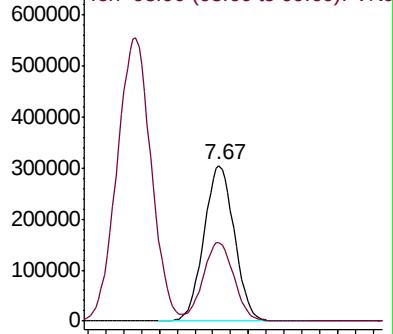
168 100

99 50.4 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 162.305 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051661.D

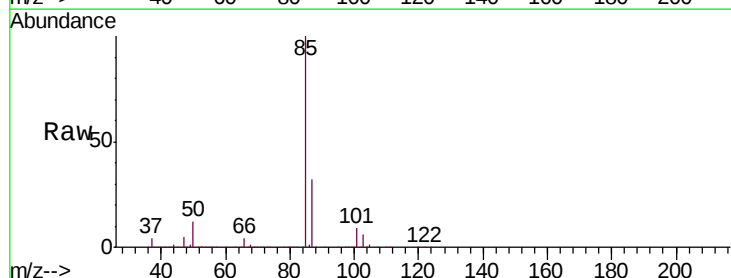
Acq: 4 Oct 2018 12:30

Tgt Ion: 85 Resp: 1393139

Ion Ratio Lower Upper

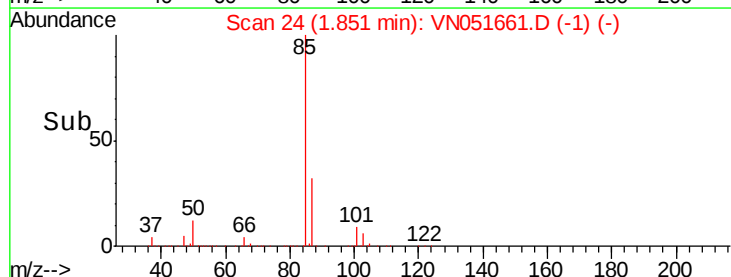
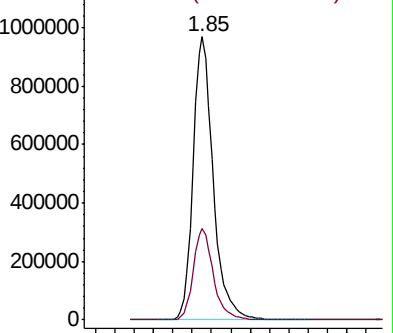
85 100

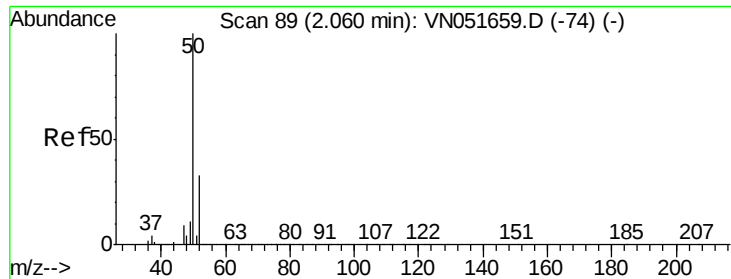
87 32.3 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 138.458 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

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Acq: 4 Oct 2018 12:30

Instrument :

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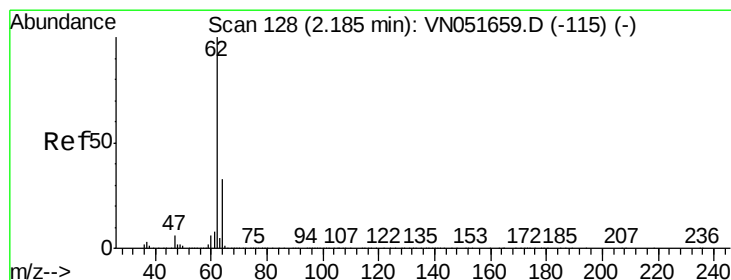
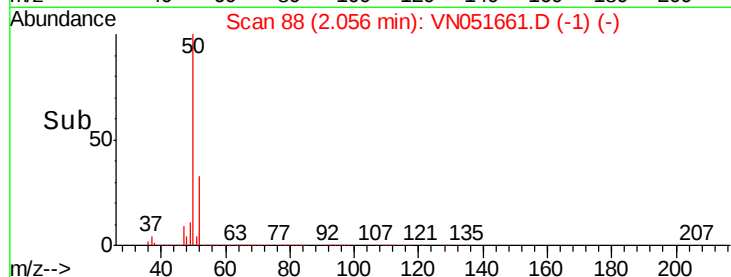
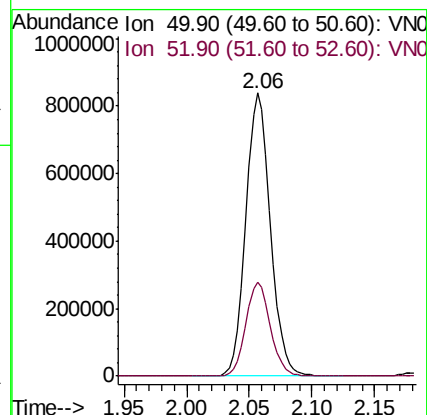
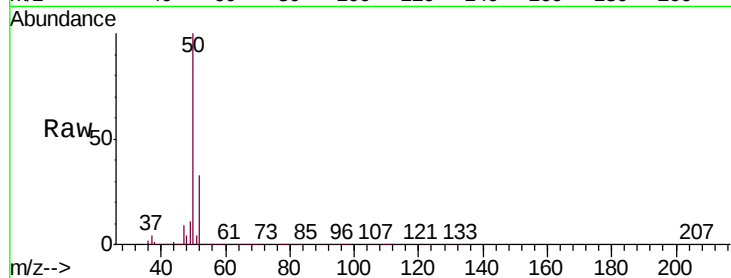
VSTDIC150

Tgt Ion: 50 Resp: 1142884

Ion Ratio Lower Upper

50 100

52 33.2 26.6 39.8



#4

Vinyl Chloride

Concen: 137.900 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN051661.D

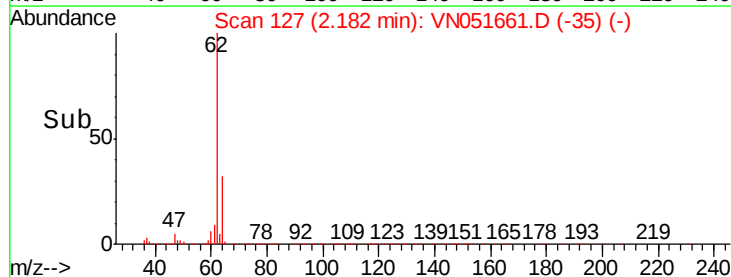
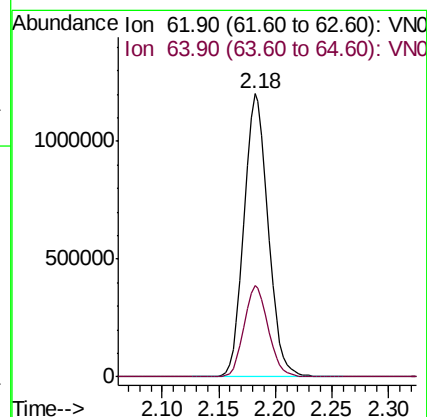
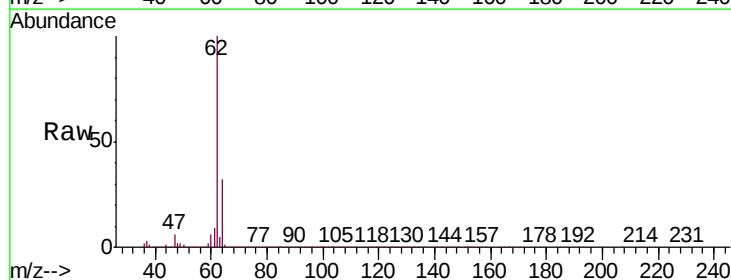
Acq: 4 Oct 2018 12:30

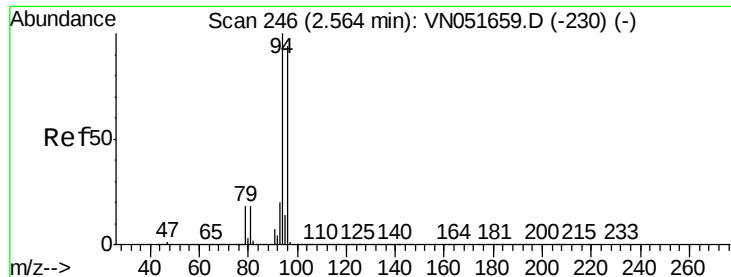
Tgt Ion: 62 Resp: 1793074

Ion Ratio Lower Upper

62 100

64 32.3 26.2 39.4





#5

Bromomethane

Concen: 138.794 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.02 min

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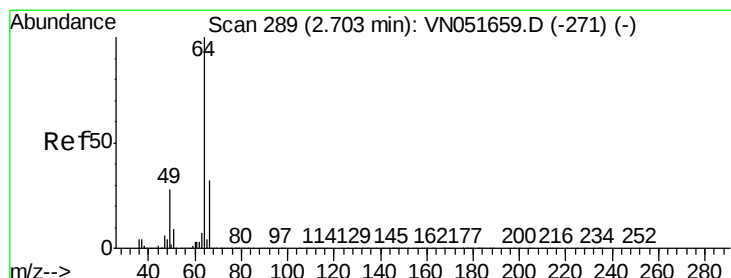
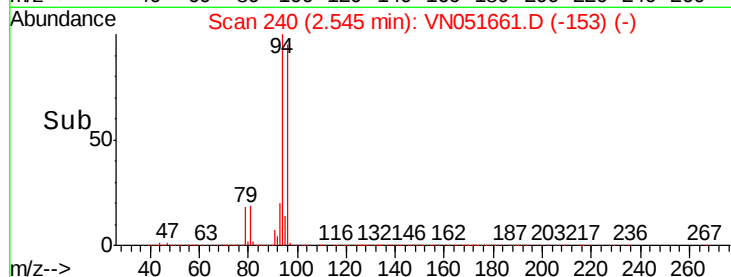
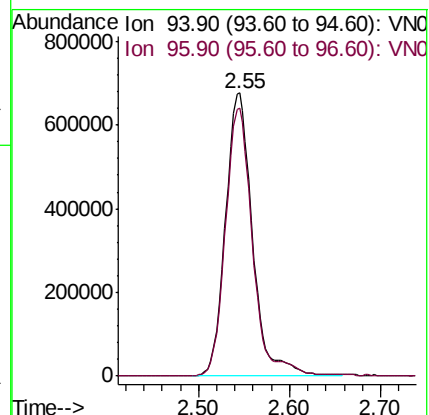
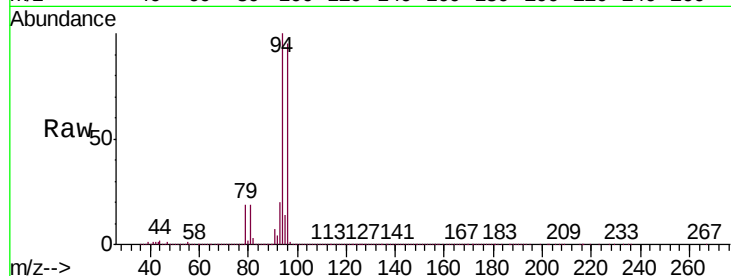
VSTDIC150

Tgt Ion: 94 Resp: 1387864

Ion Ratio Lower Upper

94 100

96 94.7 75.2 112.8



#6

Chloroethane

Concen: 132.850 ug/l

RT: 2.69 min Scan# 286

Delta R.T. -0.01 min

Lab File: VN051661.D

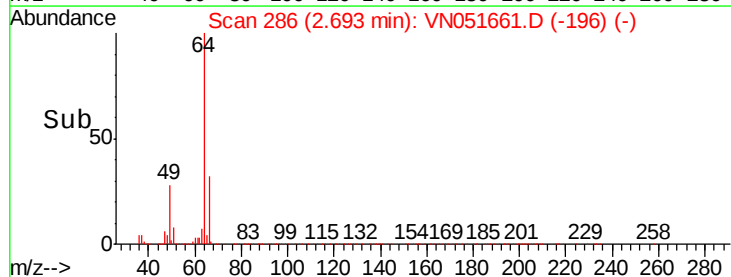
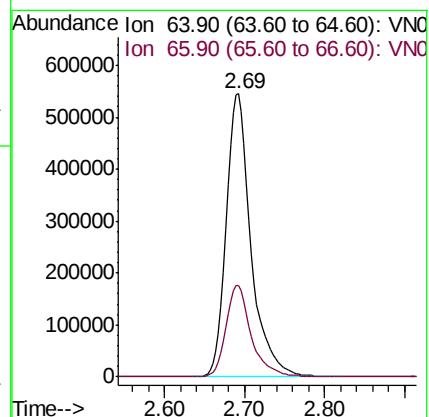
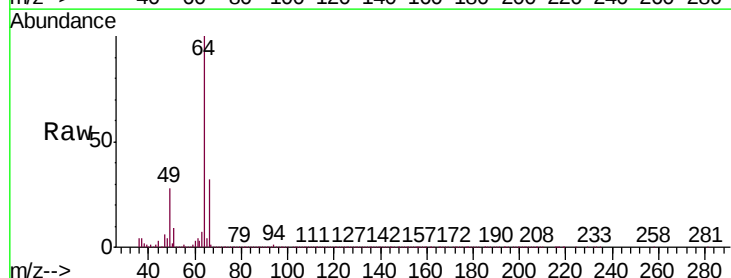
Acq: 4 Oct 2018 12:30

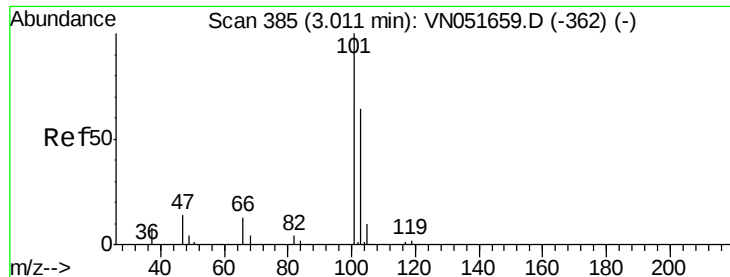
Tgt Ion: 64 Resp: 1160982

Ion Ratio Lower Upper

64 100

66 32.4 26.0 39.0



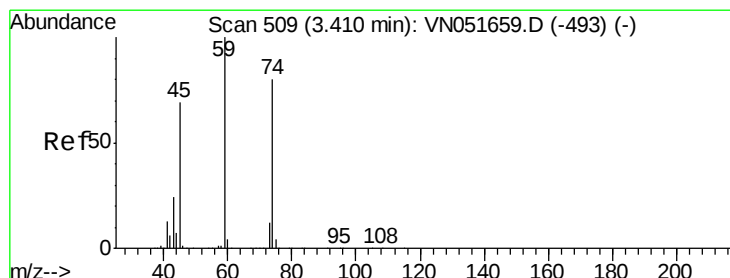
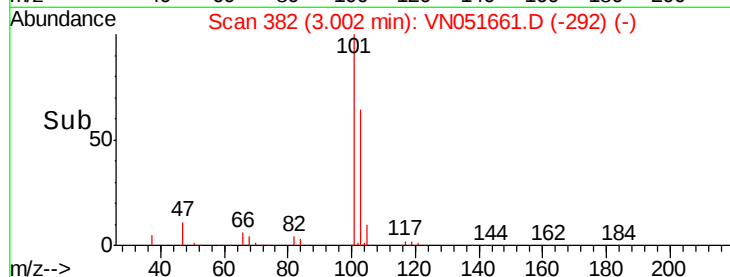
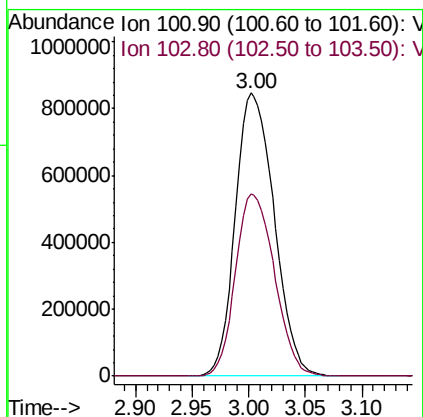
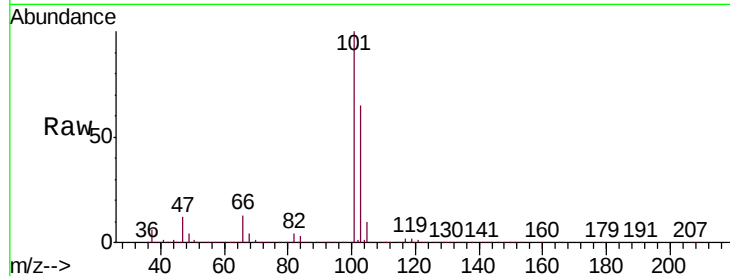


#7

Trichlorofluoromethane
 Concen: 136.796 ug/l
 RT: 3.00 min Scan# 382
 Delta R.T. -0.01 min
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 VSTDIC150

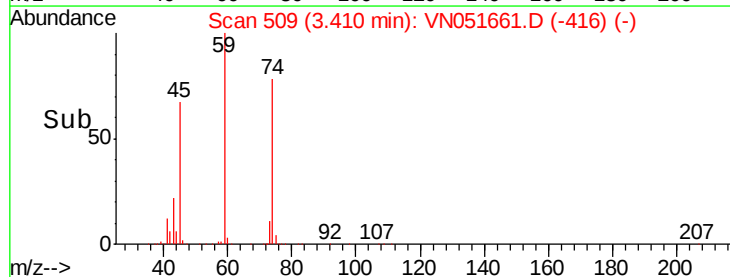
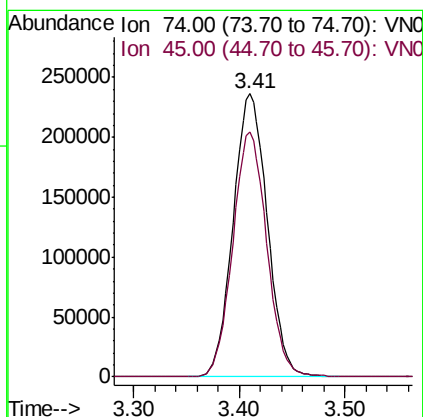
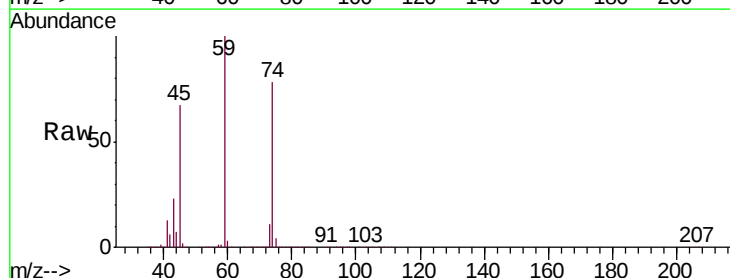
Tgt Ion:101 Resp: 2027923
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.1 76.7

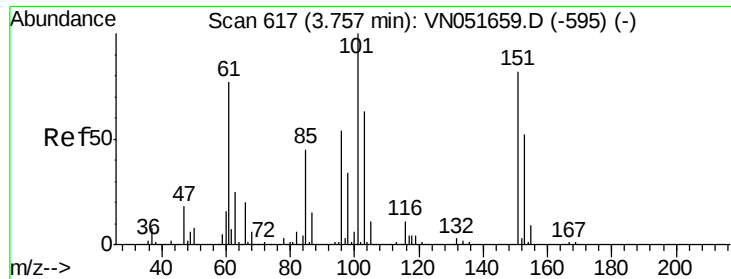


#8

Diethyl Ether
 Concen: 140.444 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN051661.D
 Acq: 4 Oct 2018 12:30

Tgt Ion: 74 Resp: 532152
 Ion Ratio Lower Upper
 74 100
 45 85.2 44.3 132.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 138.148 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN051661.D

Acq: 4 Oct 2018 12:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

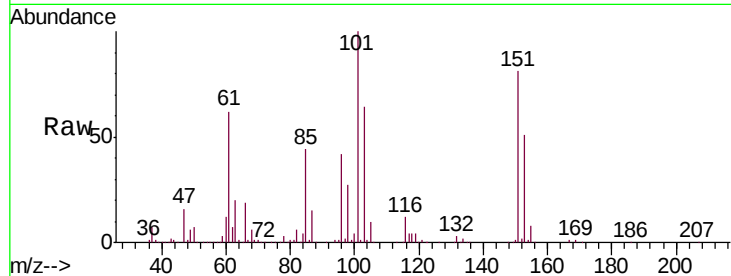
Tgt Ion:101 Resp: 998401

Ion Ratio Lower Upper

101 100

85 45.2 35.6 53.4

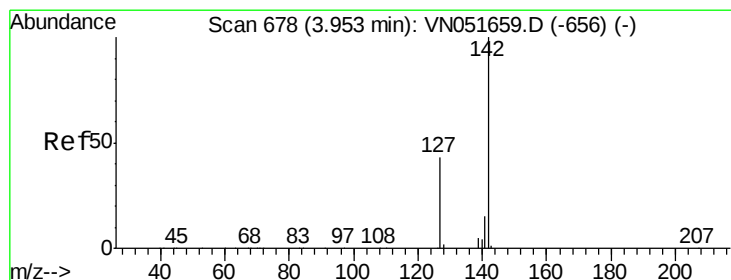
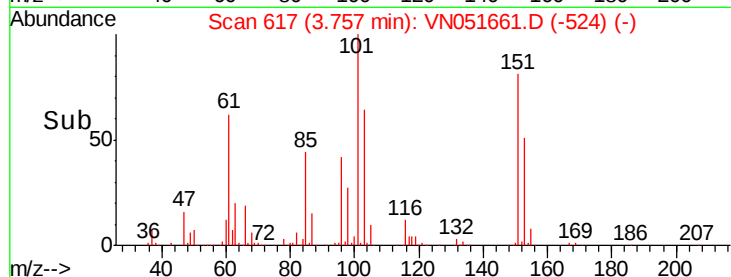
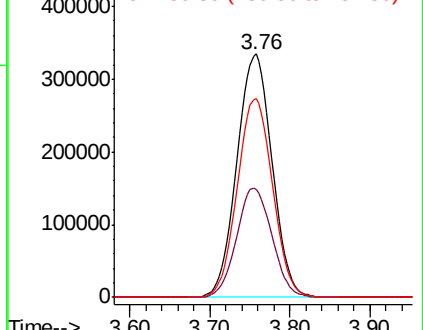
151 82.0 65.5 98.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 169.130 ug/l

RT: 3.95 min Scan# 677

Delta R.T. -0.00 min

Lab File: VN051661.D

Acq: 4 Oct 2018 12:30

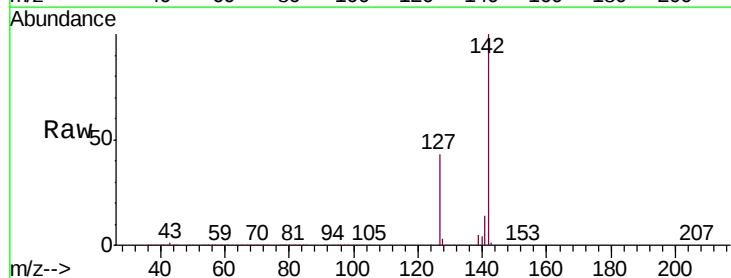
Tgt Ion:142 Resp: 1489979

Ion Ratio Lower Upper

142 100

127 43.4 34.7 52.1

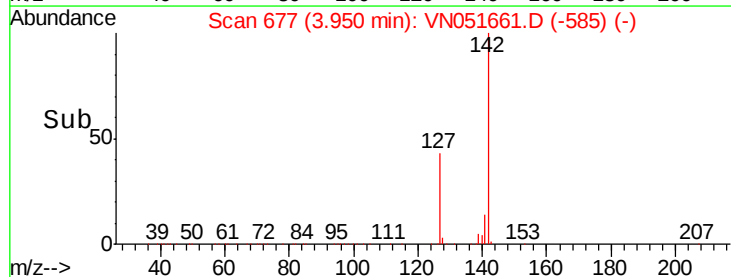
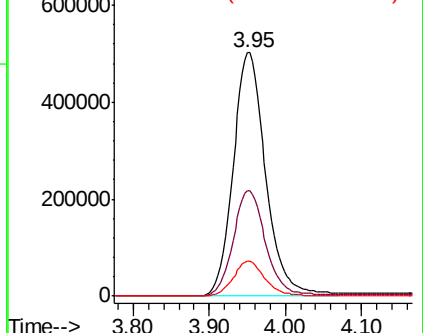
141 13.9 11.4 17.2

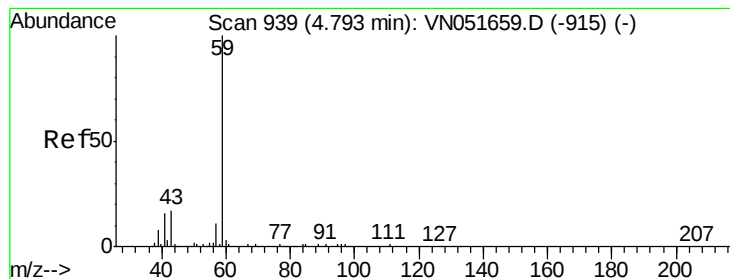


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



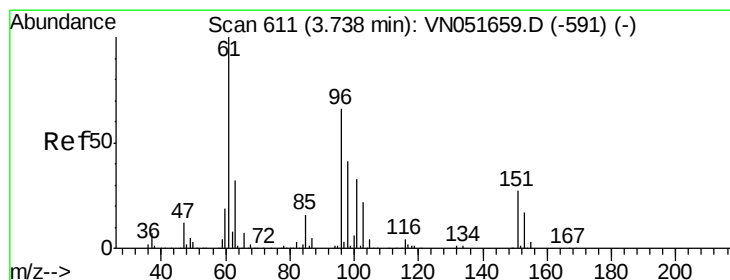
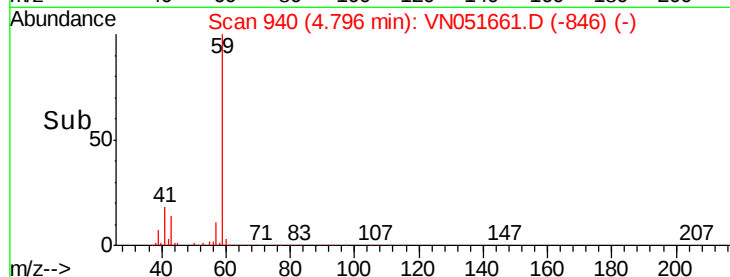
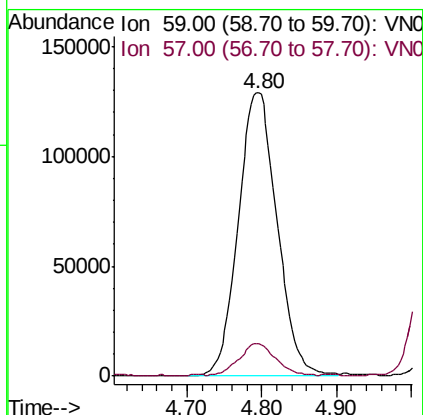
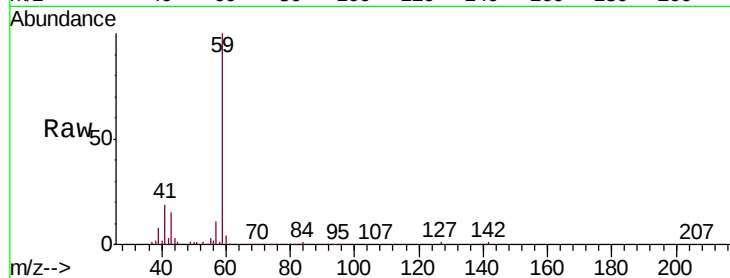


#11

Tert butyl alcohol
 Concen: 774.445 ug/l
 RT: 4.80 min Scan# 940
 Delta R.T. 0.00 min
 Lab File: VN051661.D
 Acq: 4 Oct 2018 12:30

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

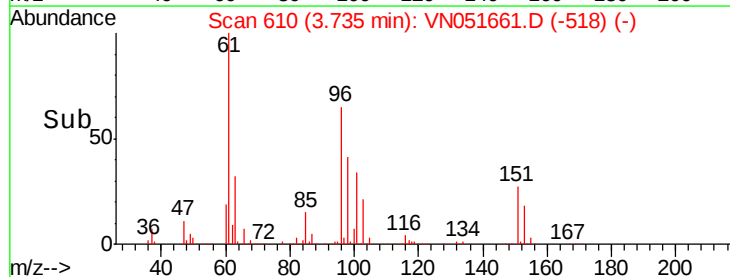
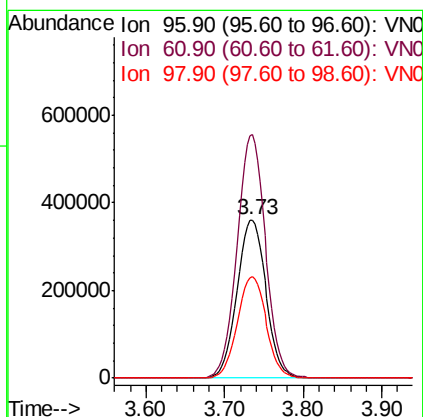
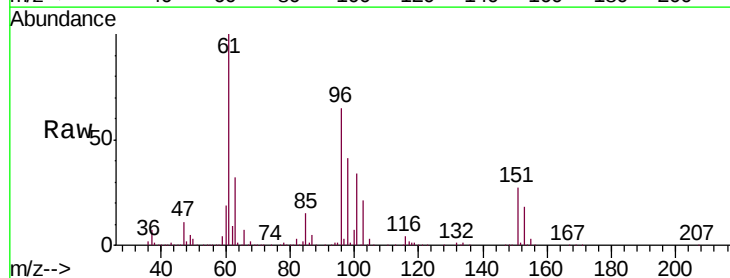
Tgt Ion: 59 Resp: 466013
 Ion Ratio Lower Upper
 59 100
 57 10.1 8.1 12.1



#12

1,1-Dichloroethene
 Concen: 138.470 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. -0.00 min
 Lab File: VN051661.D
 Acq: 4 Oct 2018 12:30

Tgt Ion: 96 Resp: 932711
 Ion Ratio Lower Upper
 96 100
 61 153.9 121.4 182.0
 98 63.8 49.9 74.9





#13

Acrolein

Concen: 783.853 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN051661.D

Acq: 4 Oct 2018 12:30

Instrument :

MSVOA_N

ClientSampleId :

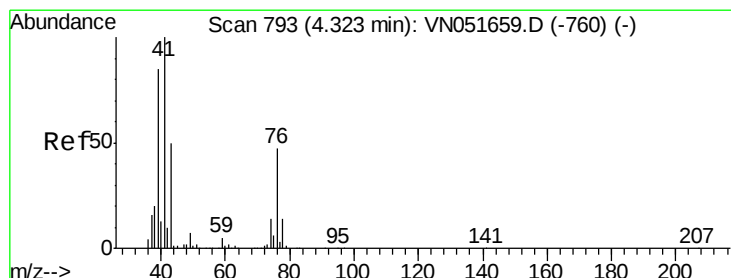
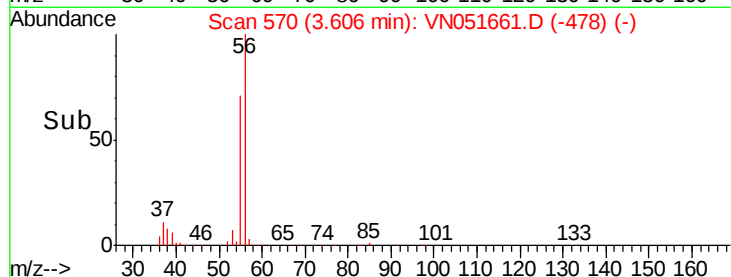
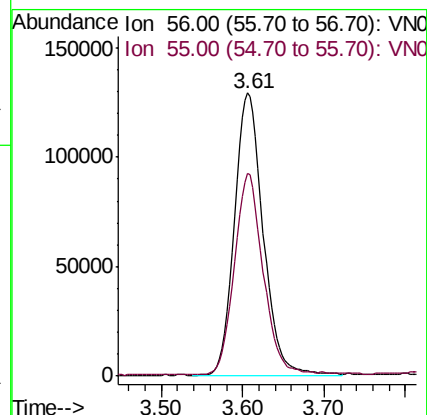
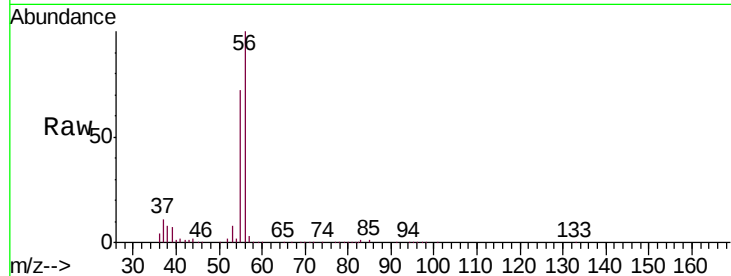
VSTDIC150

Tgt Ion: 56 Resp: 318008

Ion Ratio Lower Upper

56 100

55 70.2 57.5 86.3



#14

Allyl chloride

Concen: 142.714 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN051661.D

Acq: 4 Oct 2018 12:30

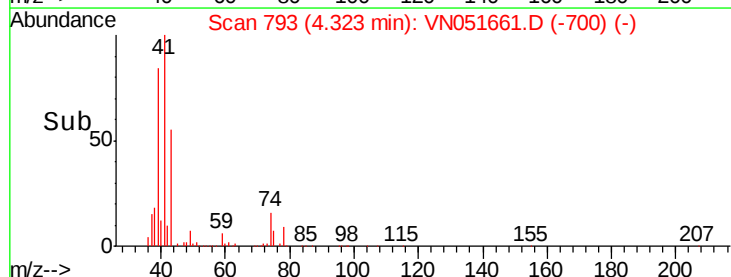
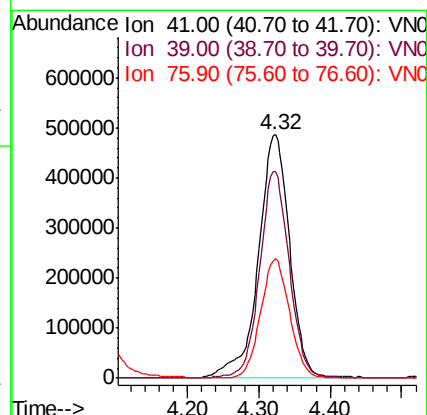
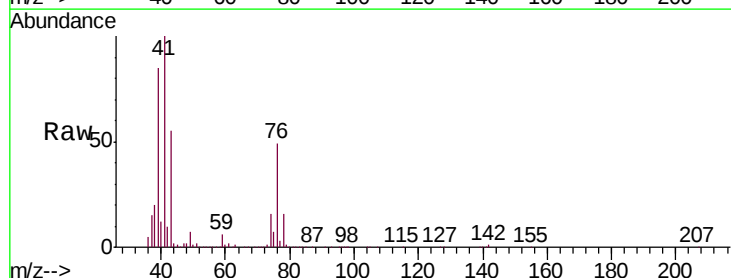
Tgt Ion: 41 Resp: 1466176

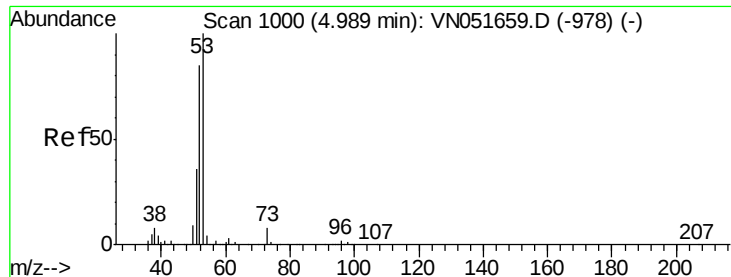
Ion Ratio Lower Upper

41 100

39 80.2 65.4 98.0

76 45.6 34.3 51.5





#15

Acrylonitrile

Concen: 742.525 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN051661.D

Acq: 4 Oct 2018 12:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

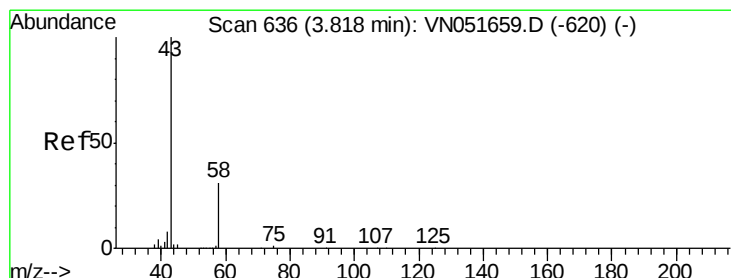
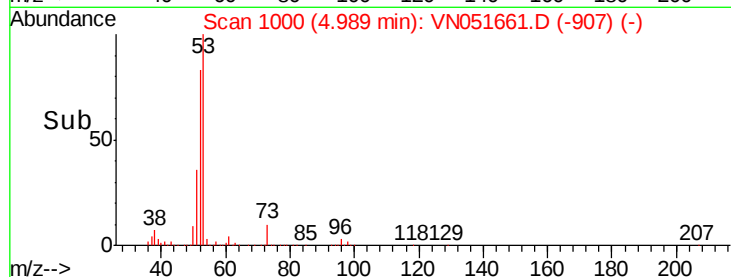
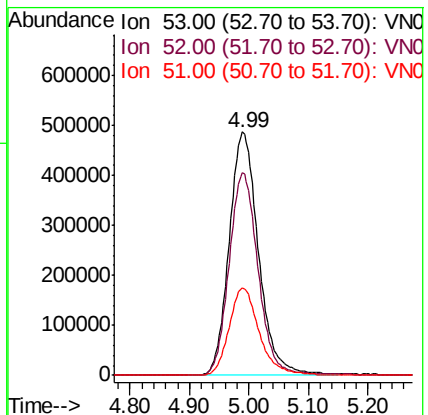
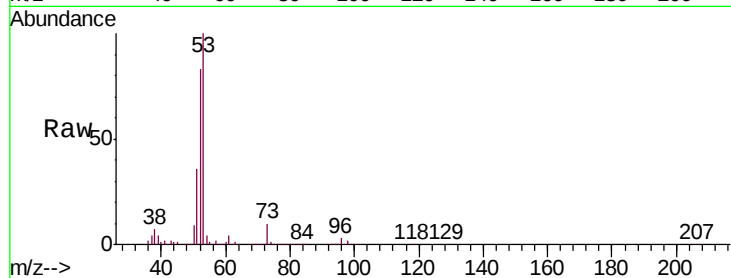
Tgt Ion: 53 Resp: 1663902

Ion Ratio Lower Upper

53 100

52 82.3 66.2 99.2

51 37.0 30.3 45.5



#16

Acetone

Concen: 651.851 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN051661.D

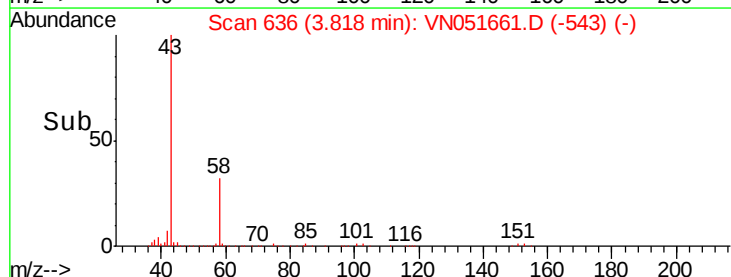
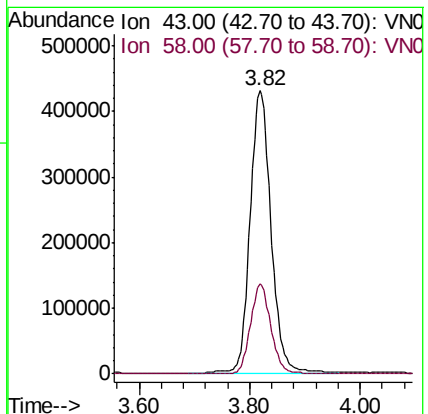
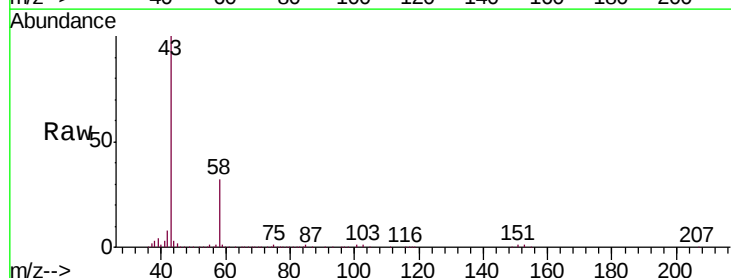
Acq: 4 Oct 2018 12:30

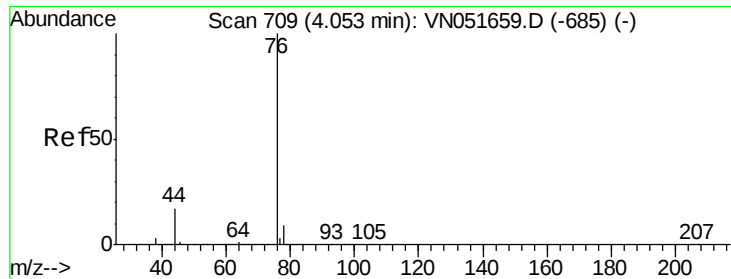
Tgt Ion: 43 Resp: 1139926

Ion Ratio Lower Upper

43 100

58 31.7 24.3 36.5

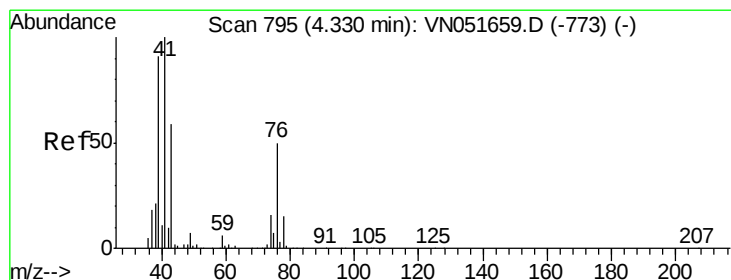
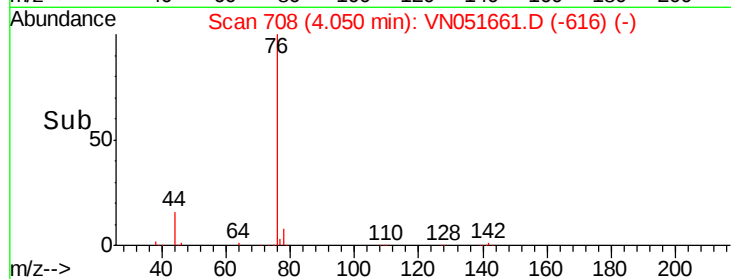
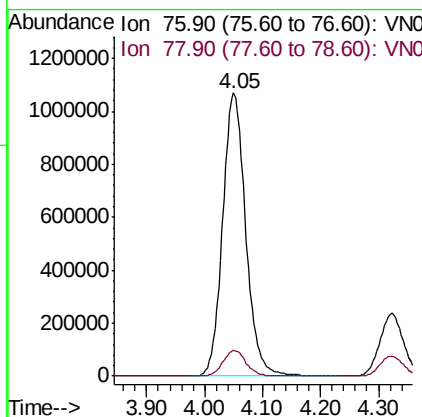
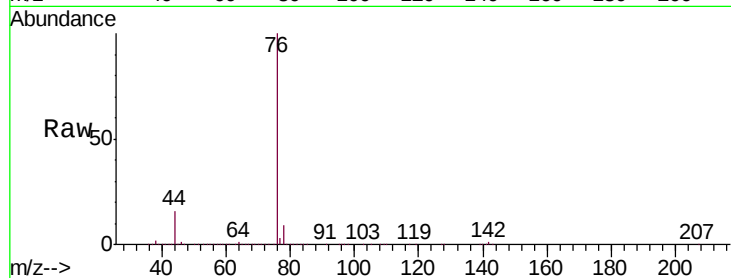




#17
Carbon Disulfide
Concen: 143.575 ug/l
RT: 4.05 min Scan# 708
Delta R.T. -0.00 min
Lab File: VN051661.D
Acq: 4 Oct 2018 12:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 76 Resp: 2939644
Ion Ratio Lower Upper
76 100
78 9.1 7.2 10.8



#18
Methyl Acetate
Concen: 145.963 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN051661.D
Acq: 4 Oct 2018 12:30

Tgt Ion: 43 Resp: 769809
Ion Ratio Lower Upper
43 100
74 28.5 21.5 32.3

