

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY061020\
 Data File : VY002878.D
 Acq On : 10 Jun 2020 16:03
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050EC

Quant Time: Jun 11 02:03:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y052720S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 13:13:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	306720	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	456276	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	416757	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	221533	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.14	65	124598	46.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.58%	
35) Dibromofluoromethane	7.72	113	137146	51.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.58%	
50) Toluene-d8	10.18	98	526722	48.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.44%	
62) 4-Bromofluorobenzene	12.48	95	183894	49.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.54%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.91	85	91167	43.20	ug/l	98
3) Chloromethane	2.12	50	103126	44.18	ug/l	98
4) Vinyl Chloride	2.26	62	115925	46.98	ug/l	98
5) Bromomethane	2.66	94	91178	49.31	ug/l	97
6) Chloroethane	2.80	64	79763	49.87	ug/l	97
7) Trichlorofluoromethane	3.13	101	218341	49.96	ug/l	99
8) Diethyl Ether	3.54	74	76998	45.12	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.91	101	135458	52.21	ug/l	98
10) Methyl Iodide	4.10	142	187016	51.51	ug/l	100
11) Tert butyl alcohol	4.97	59	51955	177.82	ug/l	100
12) 1,1-Dichloroethene	3.88	96	133716	51.25	ug/l	98
13) Acrolein	3.74	56	53232	170.56	ug/l	99
14) Allyl chloride	4.49	41	199149	53.21	ug/l	100
15) Acrylonitrile	5.18	53	169663	220.40	ug/l	100
16) Acetone	3.96	43	132841	212.72	ug/l	97
17) Carbon Disulfide	4.20	76	361822	45.89	ug/l	99
18) Methyl Acetate	4.49	43	71168	45.33	ug/l	99
19) Methyl tert-butyl Ether	5.23	73	346653	48.12	ug/l	99
20) Methylene Chloride	4.72	84	157960	51.76	ug/l	98
21) trans-1,2-Dichloroethene	5.23	96	149150	50.83	ug/l	97
22) Diisopropyl ether	6.13	45	414245	53.27	ug/l	97
23) Vinyl Acetate	6.07	43	1269557	247.26	ug/l	98
24) 1,1-Dichloroethane	6.03	63	245551	53.98	ug/l	99
25) 2-Butanone	6.99	43	198489	204.01	ug/l	99
26) 2,2-Dichloropropane	6.99	77	223040	51.12	ug/l	100
27) cis-1,2-Dichloroethene	6.99	96	170124	51.79	ug/l	100
28) Bromochloromethane	7.34	49	91109	48.79	ug/l	99
29) Tetrahydrofuran	7.35	42	130732	206.57	ug/l	99
30) Chloroform	7.51	83	259463	53.75	ug/l	99
31) Cyclohexane	7.79	56	209561	46.40	ug/l	98
32) 1,1,1-Trichloroethane	7.71	97	234723	52.18	ug/l	100
36) 1,1-Dichloropropene	7.93	75	195378	50.83	ug/l	99
37) Ethyl Acetate	7.08	43	91695	43.85	ug/l	98
38) Carbon Tetrachloride	7.91	117	217347	50.90	ug/l	98

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	243164	48.00	ug/l	97
40) Benzene	8.16	78	583189	51.35	ug/l	100
41) Methacrylonitrile	7.35	41	122498	109.04	ug/l #	1
42) 1,2-Dichloroethane	8.24	62	156729	49.24	ug/l	99
43) Isopropyl Acetate	8.28	43	175200	44.21	ug/l	99
44) Trichloroethene	8.94	130	177972	49.61	ug/l	100
45) 1,2-Dichloropropane	9.22	63	143475	52.68	ug/l	100
46) Dibromomethane	9.31	93	79179	48.95	ug/l	98
47) Bromodichloromethane	9.50	83	201402	52.82	ug/l	99
48) Methyl methacrylate	9.30	41	79471	44.42	ug/l	99
49) 1,4-Dioxane	9.30	88	19420	781.94	ug/l	97
51) 4-Methyl-2-Pentanone	10.07	43	447712	213.36	ug/l	100
52) Toluene	10.25	92	380474	51.21	ug/l	99
53) t-1,3-Dichloropropene	10.47	75	207727	49.88	ug/l	98
54) cis-1,3-Dichloropropene	9.93	75	242802	51.45	ug/l	97
55) 1,1,2-Trichloroethane	10.64	97	118973	48.05	ug/l	93
56) Ethyl methacrylate	10.51	69	152486	45.97	ug/l	100
57) 1,3-Dichloropropane	10.79	76	197396	48.47	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.78	63	380920	235.04	ug/l	99
59) 2-Hexanone	10.83	43	304972	204.83	ug/l	100
60) Dibromochloromethane	10.99	129	155444	49.51	ug/l	100
61) 1,2-Dibromoethane	11.09	107	115567	47.31	ug/l	99
64) Tetrachloroethene	10.72	164	182562	48.20	ug/l	99
65) Chlorobenzene	11.52	112	426793	51.81	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.59	131	163506	52.70	ug/l	99
67) Ethyl Benzene	11.60	91	747516	52.35	ug/l	99
68) m/p-Xylenes	11.70	106	581366	105.00	ug/l	99
69) o-Xylene	12.03	106	273469	52.32	ug/l	100
70) Styrene	12.05	104	479081	52.87	ug/l	100
71) Bromoform	12.21	173	99849	48.10	ug/l	99
73) Isopropylbenzene	12.33	105	751347	52.92	ug/l	100
74) N-amyl acetate	12.14	43	165857	45.53	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.58	83	121672	48.85	ug/l	99
76) 1,2,3-Trichloropropane	12.63	75	173636	86.99	ug/l #	100
77) Bromobenzene	12.61	156	190150	51.44	ug/l	99
78) n-propylbenzene	12.67	91	873484	53.26	ug/l	100
79) 2-Chlorotoluene	12.76	91	482135	52.41	ug/l	100
80) 1,3,5-Trimethylbenzene	12.81	105	627219	52.91	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	47716	45.03	ug/l	96
82) 4-Chlorotoluene	12.86	91	511560	53.08	ug/l	100
83) tert-Butylbenzene	13.08	119	558492	52.82	ug/l	100
84) 1,2,4-Trimethylbenzene	13.12	105	630918	52.93	ug/l	100
85) sec-Butylbenzene	13.25	105	763750	52.83	ug/l	100
86) p-Isopropyltoluene	13.37	119	721110	53.60	ug/l	99
87) 1,3-Dichlorobenzene	13.37	146	362002	51.70	ug/l	100
88) 1,4-Dichlorobenzene	13.45	146	363702	51.92	ug/l	99
89) n-Butylbenzene	13.70	91	642474	52.60	ug/l	100
90) Hexachloroethane	13.96	117	135918	53.97	ug/l	100
91) 1,2-Dichlorobenzene	13.74	146	327500	51.57	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.36	75	20819	43.44	ug/l	95

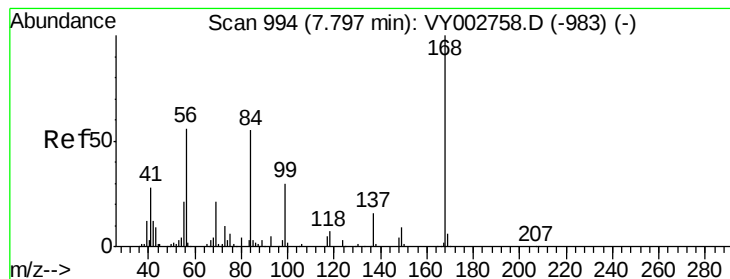
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY061020\
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Quant Title : SW846 8260
QLast Update : Wed May 27 13:13:33 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.01	180	237822	49.69	ug/l	100
94) Hexachlorobutadiene	15.11	225	143006	52.68	ug/l	99
95) Naphthalene	15.24	128	420944	43.86	ug/l	100
96) 1,2,3-Trichlorobenzene	15.43	180	206979	48.42	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY002878.D

Acq: 10 Jun 2020 16:03

Instrument :

MSVOA_Y

ClientSampleId :

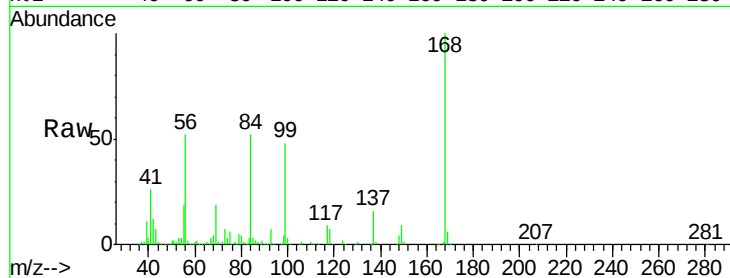
VSTDCCC050EC

Tgt Ion:168 Resp: 306720

Ion Ratio Lower Upper

168 100

99 47.8 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): VY002758.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY002758.D (-983) (-)

7.80

150000

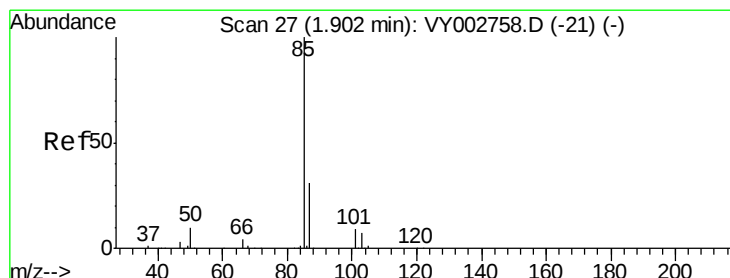
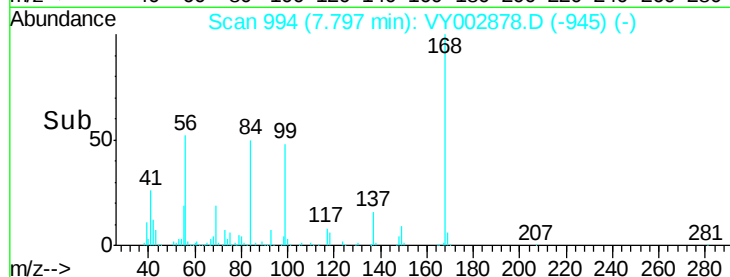
100000

50000

0

7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 43.20 ug/l

RT: 1.91 min Scan# 28

Delta R.T. 0.01 min

Lab File: VY002878.D

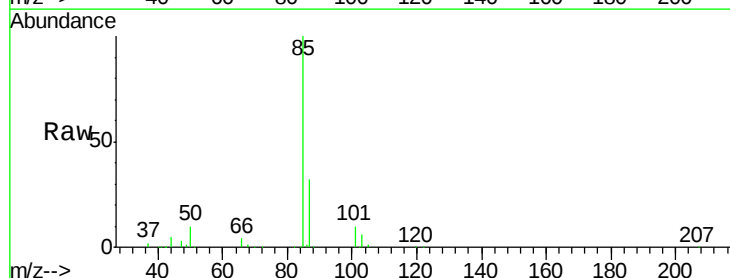
Acq: 10 Jun 2020 16:03

Tgt Ion: 85 Resp: 91167

Ion Ratio Lower Upper

85 100

87 32.1 15.5 46.5



Abundance Ion 84.90 (84.60 to 85.60): VY002758.D (-21) (-)

Ion 86.90 (86.60 to 87.60): VY002758.D (-21) (-)

1.91

60000

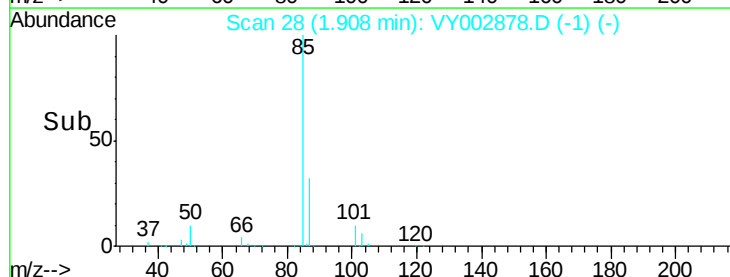
40000

20000

0

1.80 1.90 2.00

Time-->





#3

Chloromethane

Concen: 44.18 ug/l

RT: 2.12 min Scan# 63

Delta R.T. 0.01 min

Lab File: VY002878.D

Acq: 10 Jun 2020 16:03

Instrument :

MSVOA_Y

ClientSampleId :

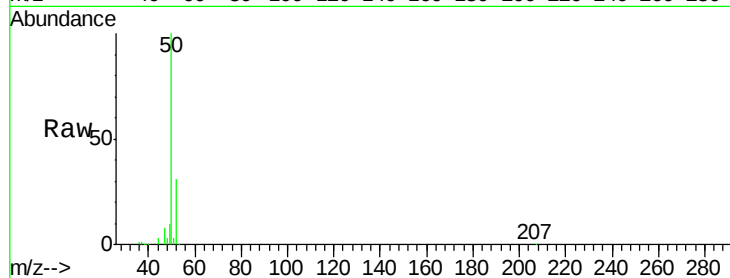
VSTDCCC050EC

Tgt Ion: 50 Resp: 103126

Ion Ratio Lower Upper

50 100

52 31.3 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0

2.12

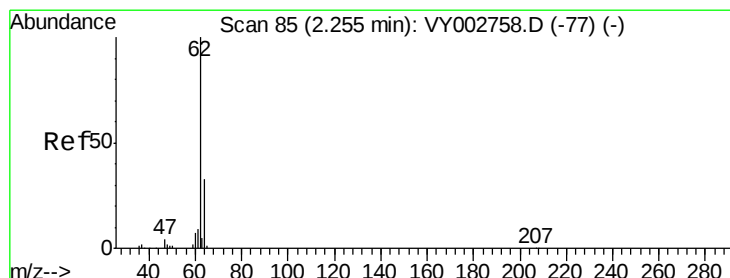
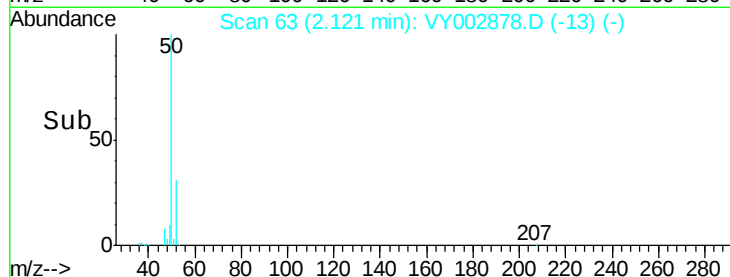
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 46.98 ug/l

RT: 2.26 min Scan# 85

Delta R.T. 0.00 min

Lab File: VY002878.D

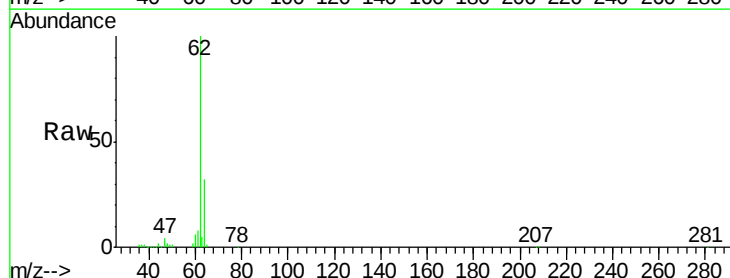
Acq: 10 Jun 2020 16:03

Tgt Ion: 62 Resp: 115925

Ion Ratio Lower Upper

62 100

64 31.6 26.1 39.1



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 63.90 (63.60 to 64.60): VY0

2.26

80000

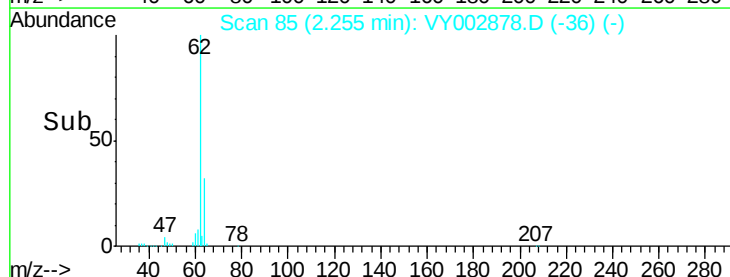
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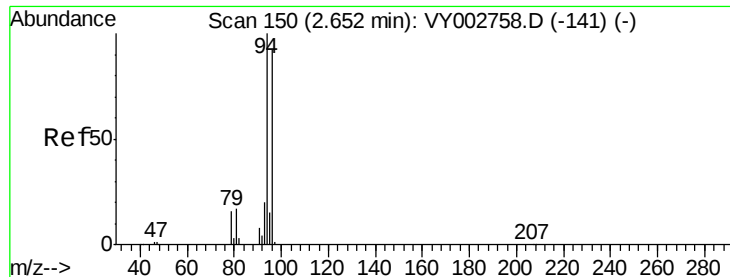
40000

20000

0

Time-->





#5

Bromomethane

Concen: 49.31 ug/l

RT: 2.66 min Scan# 151

Delta R.T. 0.01 min

Lab File: VY002878.D

Acq: 10 Jun 2020 16:03

Instrument :

MSVOA_Y

ClientSampleId :

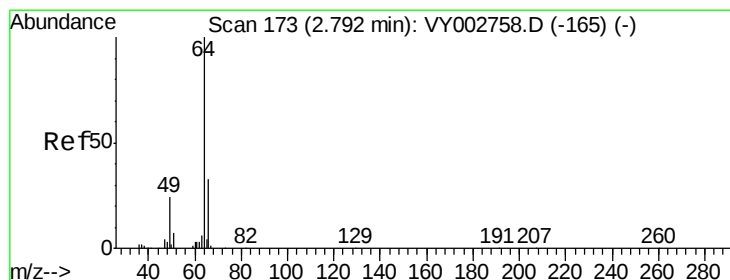
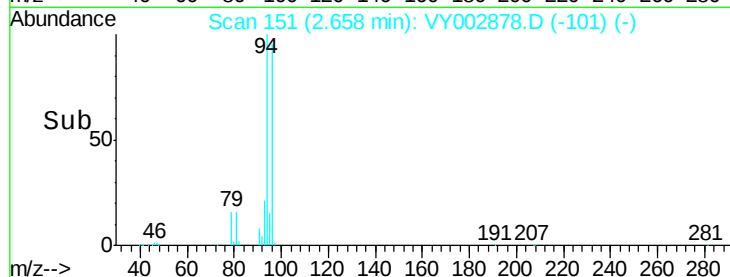
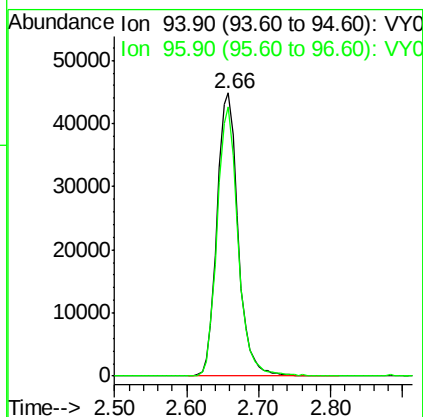
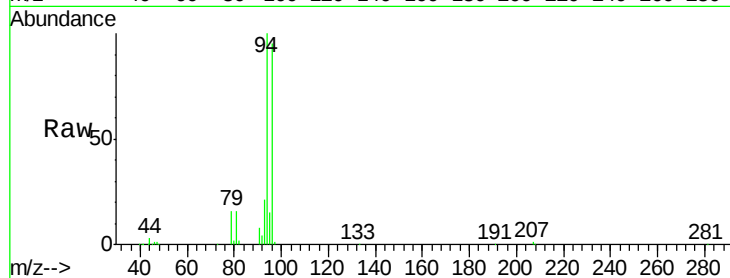
VSTDCCC050EC

Tgt Ion: 94 Resp: 91178

Ion Ratio Lower Upper

94 100

96 94.9 73.7 110.5



#6

Chloroethane

Concen: 49.87 ug/l

RT: 2.80 min Scan# 174

Delta R.T. 0.01 min

Lab File: VY002878.D

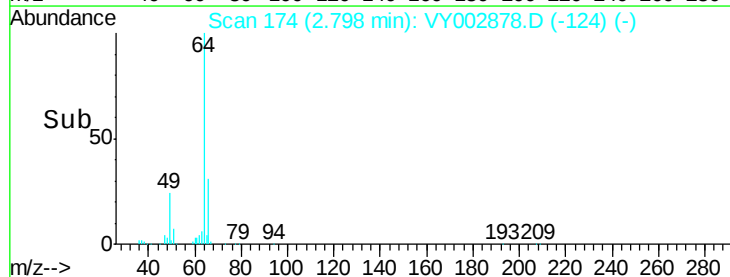
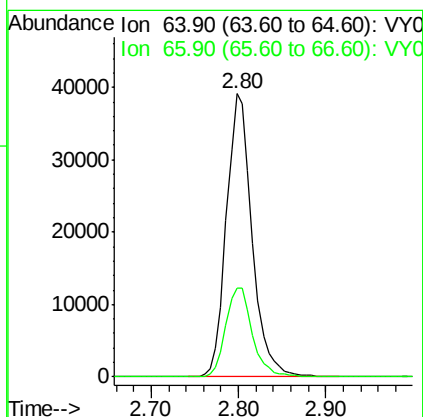
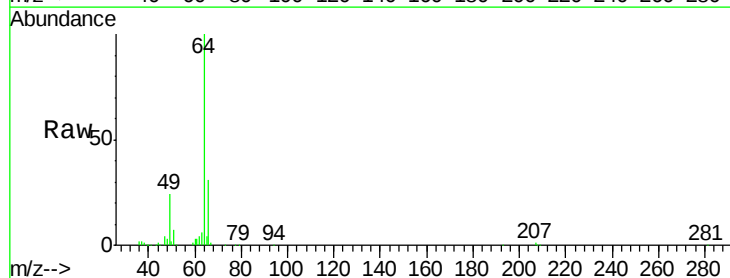
Acq: 10 Jun 2020 16:03

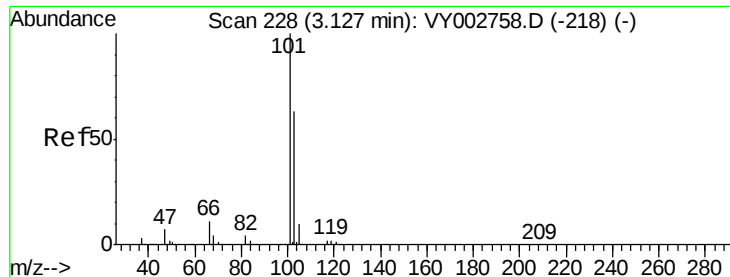
Tgt Ion: 64 Resp: 79763

Ion Ratio Lower Upper

64 100

66 31.2 26.4 39.6



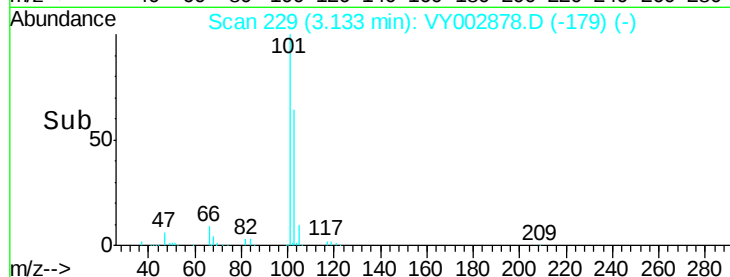
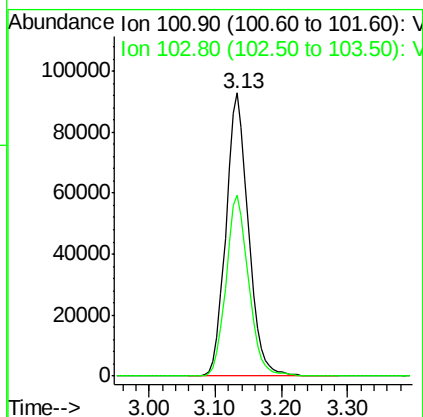
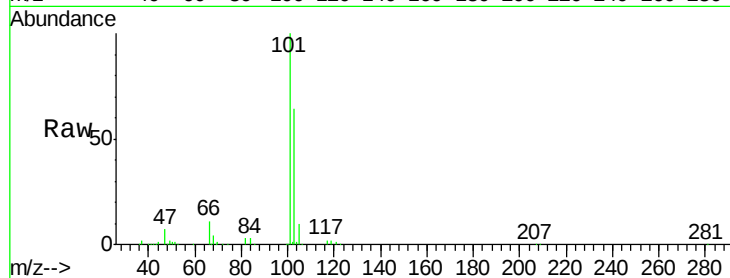


#7

Trichlorofluoromethane
 Concen: 49.96 ug/l
 RT: 3.13 min Scan# 229
 Delta R.T. 0.01 min
 Lab File: VY002878.D
 Acq: 10 Jun 2020 16:03

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050EC

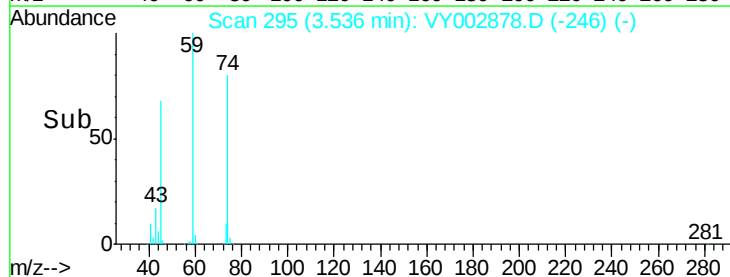
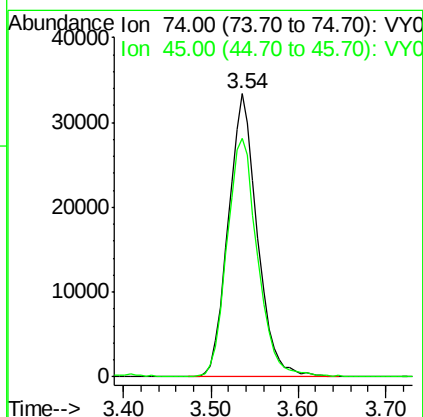
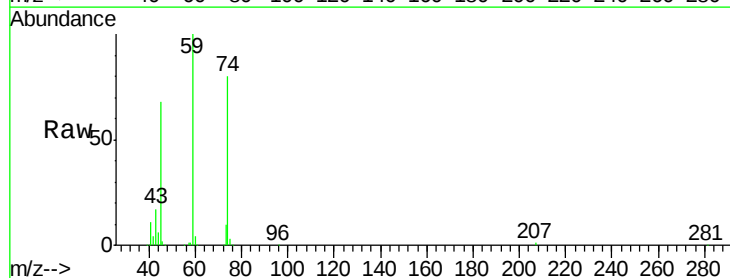
Tgt Ion: 101 Resp: 218341
 Ion Ratio Lower Upper
 101 100
 103 64.0 50.6 76.0

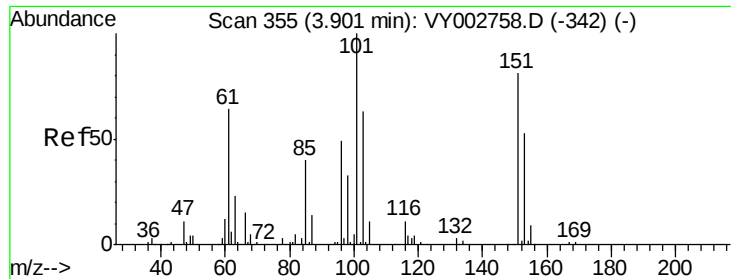


#8

Diethyl Ether
 Concen: 45.12 ug/l
 RT: 3.54 min Scan# 295
 Delta R.T. 0.00 min
 Lab File: VY002878.D
 Acq: 10 Jun 2020 16:03

Tgt Ion: 74 Resp: 76998
 Ion Ratio Lower Upper
 74 100
 45 88.9 44.0 131.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.21 ug/l

RT: 3.91 min Scan# 356

Delta R.T. 0.01 min

Lab File: VY002878.D

Acq: 10 Jun 2020 16:03

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050EC

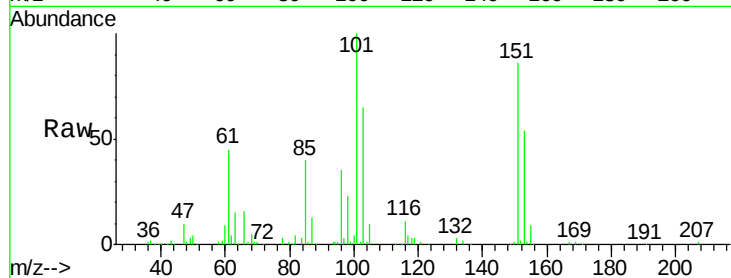
Tgt Ion:101 Resp: 135458

Ion Ratio Lower Upper

101 100

85 41.8 32.7 49.1

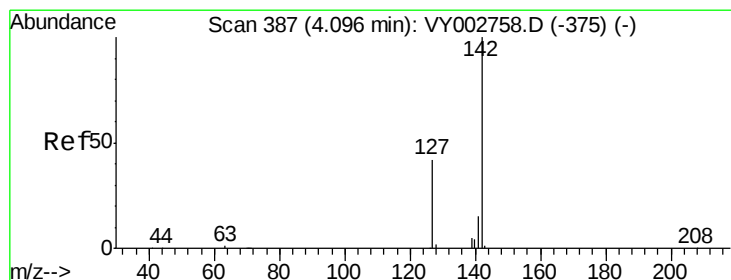
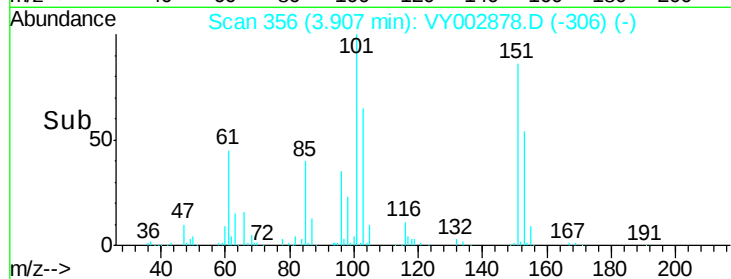
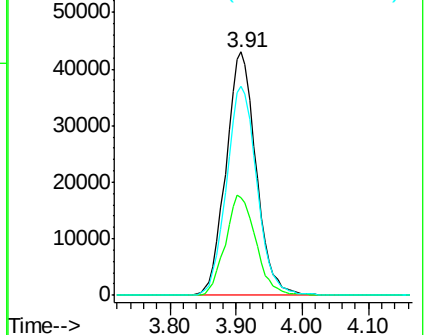
151 87.3 68.0 102.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VY0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 51.51 ug/l

RT: 4.10 min Scan# 388

Delta R.T. 0.01 min

Lab File: VY002878.D

Acq: 10 Jun 2020 16:03

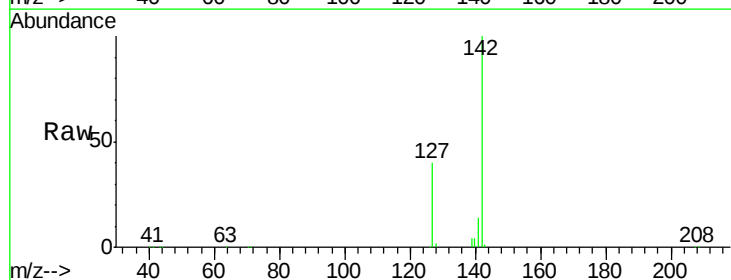
Tgt Ion:142 Resp: 187016

Ion Ratio Lower Upper

142 100

127 41.7 33.3 49.9

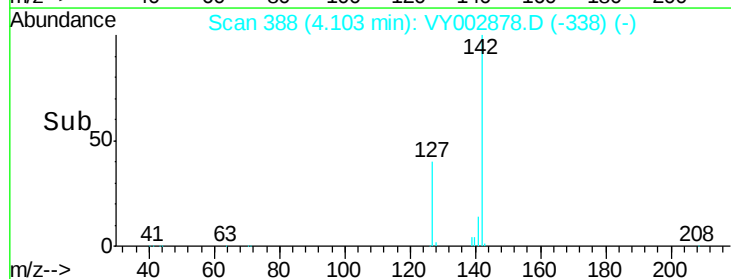
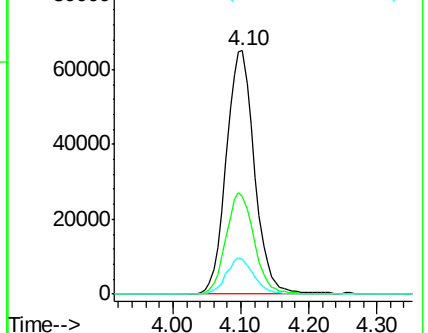
141 14.4 11.5 17.3

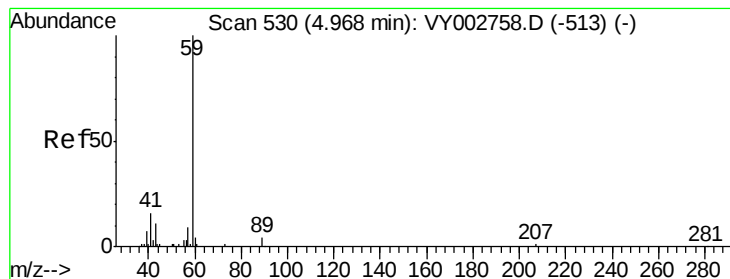


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



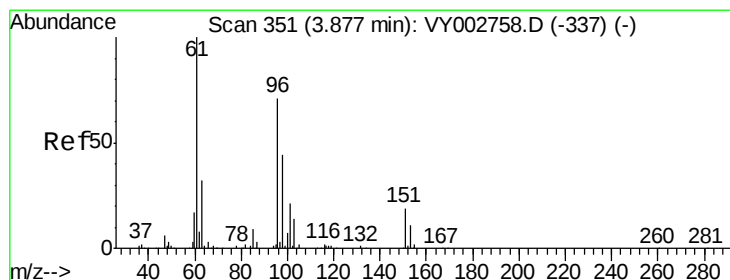
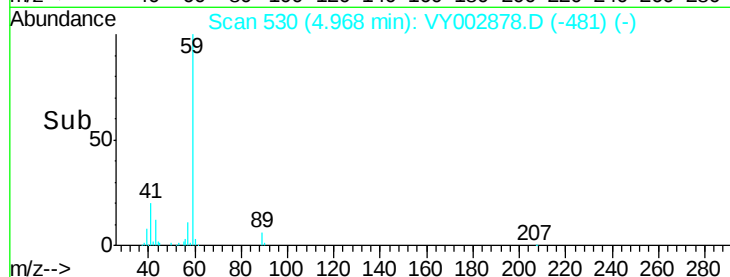
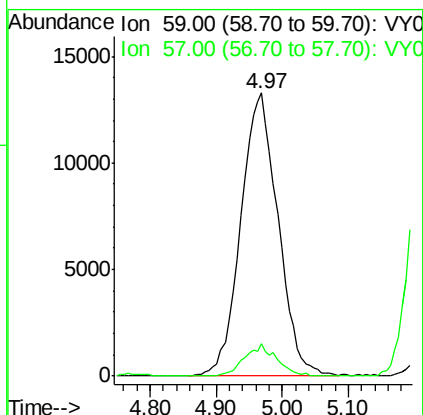
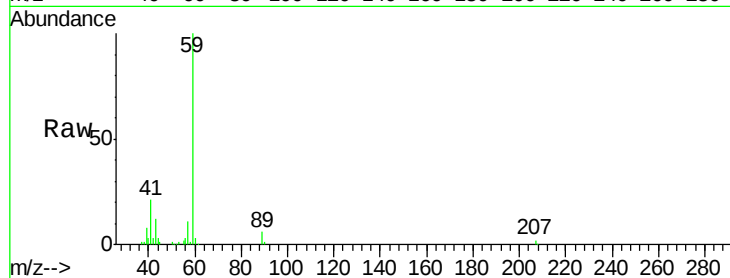


#11

Tert butyl alcohol
 Concen: 177.82 ug/l
 RT: 4.97 min Scan# 530
 Delta R.T. 0.00 min
 Lab File: VY002878.D
 Acq: 10 Jun 2020 16:03

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050EC

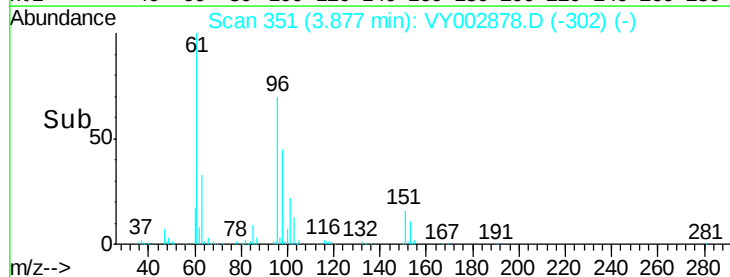
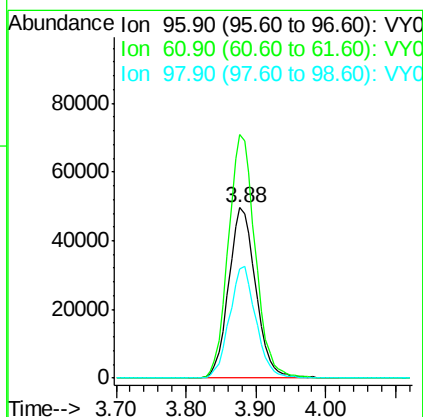
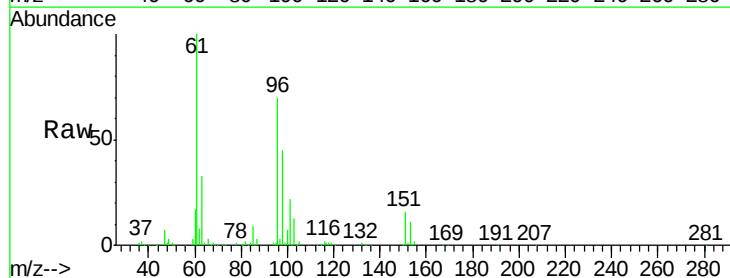
Tgt Ion: 59 Resp: 51955
 Ion Ratio Lower Upper
 59 100
 57 9.7 7.7 11.5

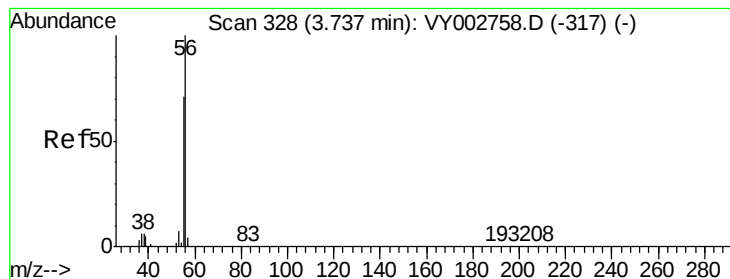


#12

1,1-Dichloroethene
 Concen: 51.25 ug/l
 RT: 3.88 min Scan# 351
 Delta R.T. 0.00 min
 Lab File: VY002878.D
 Acq: 10 Jun 2020 16:03

Tgt Ion: 96 Resp: 133716
 Ion Ratio Lower Upper
 96 100
 61 143.0 112.6 168.8
 98 64.4 50.0 75.0





#13

Acrolein

Concen: 170.56 ug/l

RT: 3.74 min Scan# 328

Delta R.T. 0.00 min

Lab File: VY002878.D

Acq: 10 Jun 2020 16:03

Instrument :

MSVOA_Y

ClientSampleId :

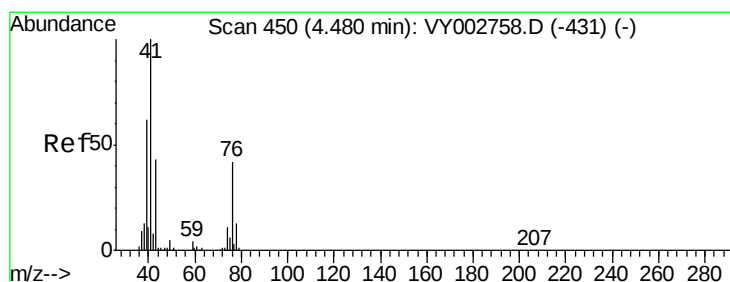
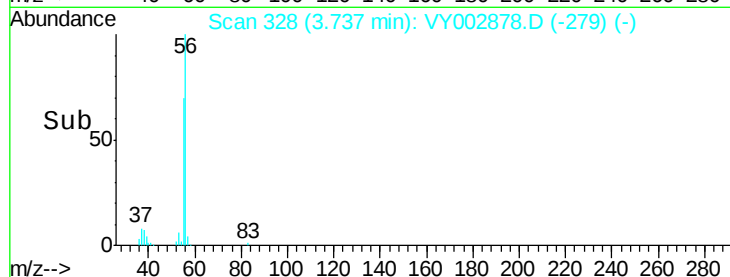
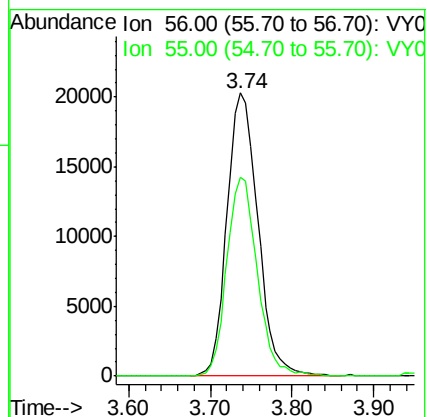
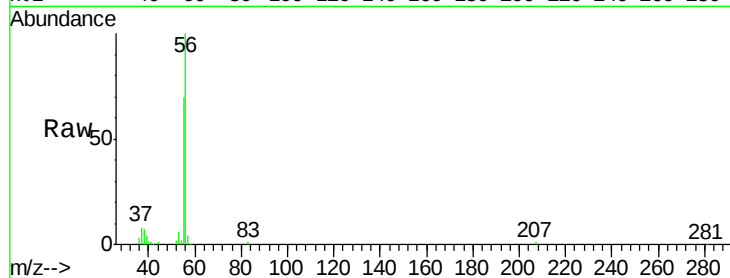
VSTDCCC050EC

Tgt Ion: 56 Resp: 53232

Ion Ratio Lower Upper

56 100

55 69.0 56.0 84.0



#14

Allyl chloride

Concen: 53.21 ug/l

RT: 4.49 min Scan# 451

Delta R.T. 0.01 min

Lab File: VY002878.D

Acq: 10 Jun 2020 16:03

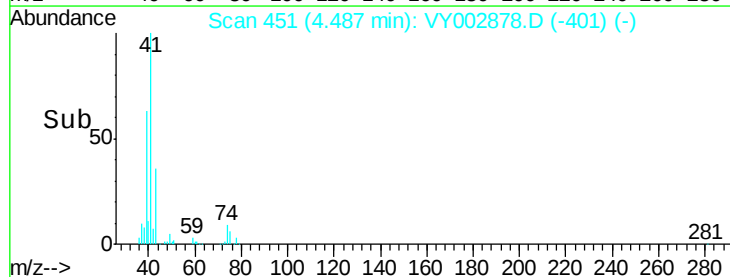
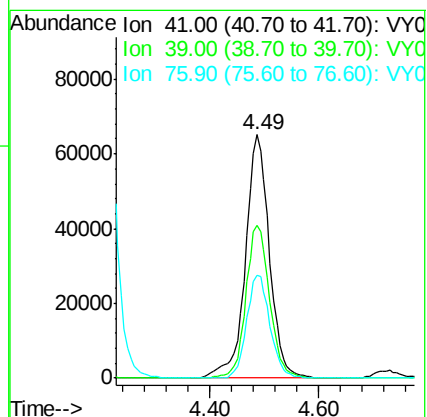
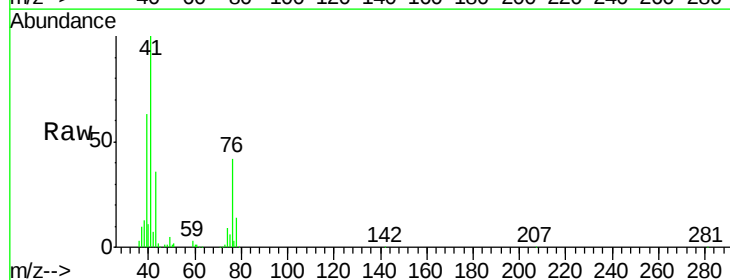
Tgt Ion: 41 Resp: 199149

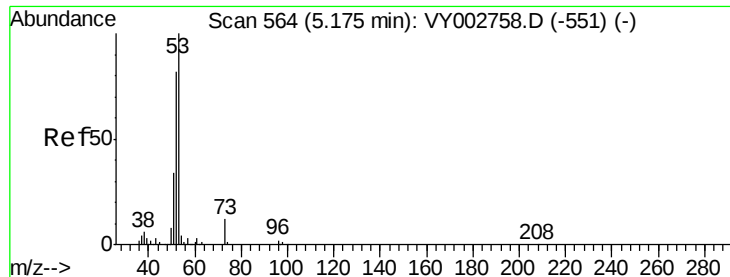
Ion Ratio Lower Upper

41 100

39 62.1 49.9 74.9

76 41.1 33.2 49.8





#15

Acrylonitrile

Concen: 220.40 ug/l

RT: 5.18 min Scan# 564

Delta R.T. 0.00 min

Lab File: VY002878.D

Acq: 10 Jun 2020 16:03

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050EC

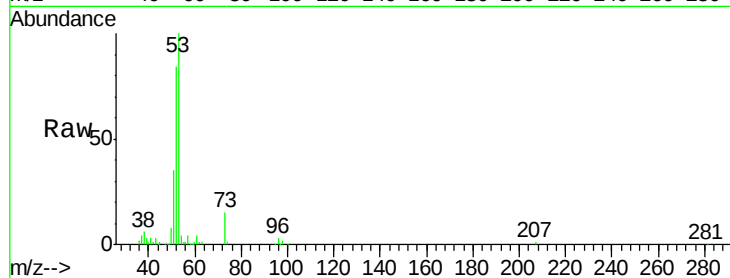
Tgt Ion: 53 Resp: 169663

Ion Ratio Lower Upper

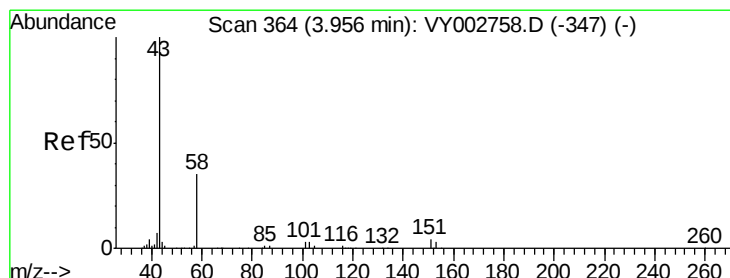
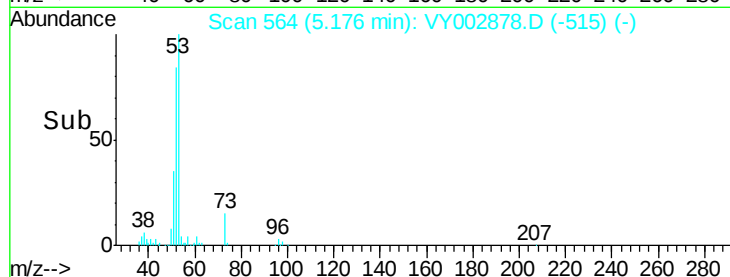
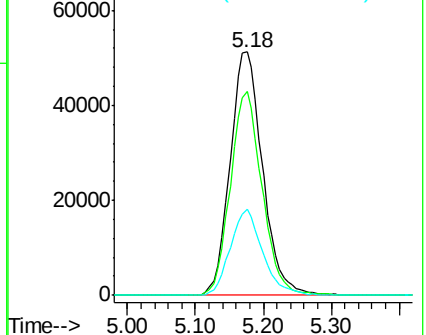
53 100

52 81.9 65.3 97.9

51 35.3 28.0 42.0



Abundance Ion 53.00 (52.70 to 53.70): VY0
Ion 52.00 (51.70 to 52.70): VY0
Ion 51.00 (50.70 to 51.70): VY0



#16

Acetone

Concen: 212.72 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VY002878.D

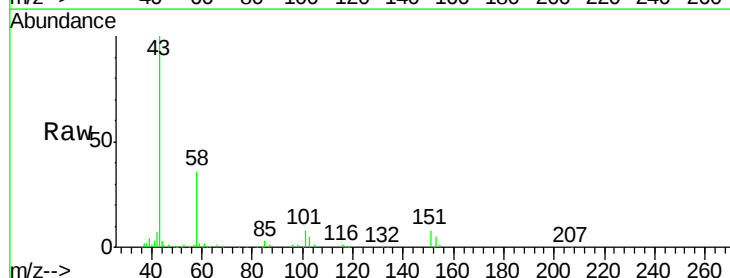
Acq: 10 Jun 2020 16:03

Tgt Ion: 43 Resp: 132841

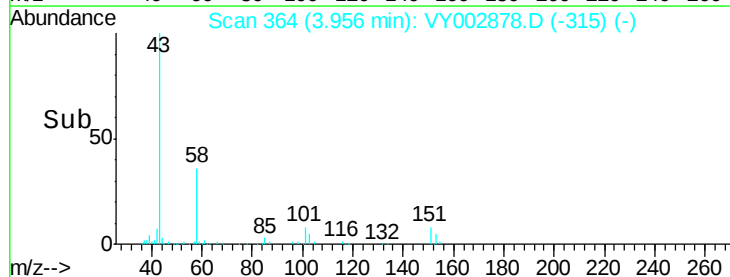
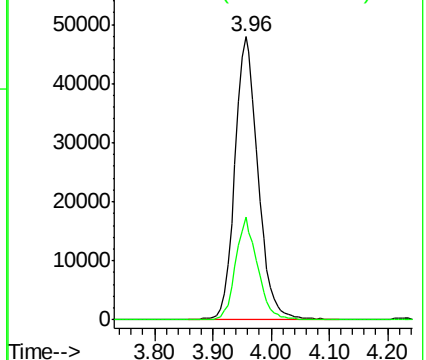
Ion Ratio Lower Upper

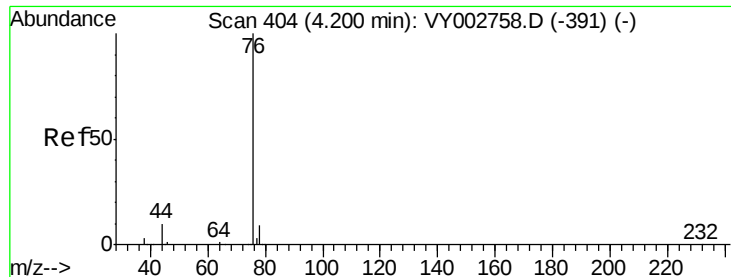
43 100

58 36.3 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0

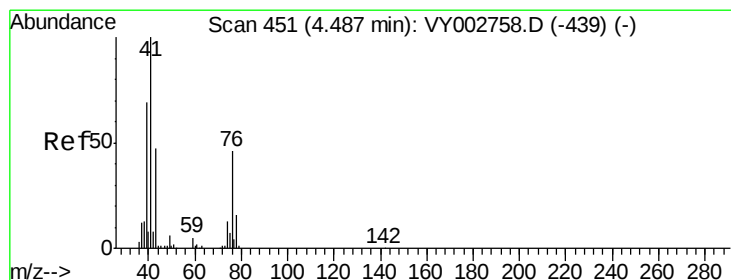
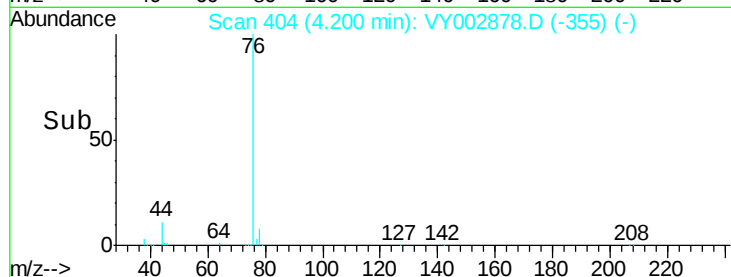
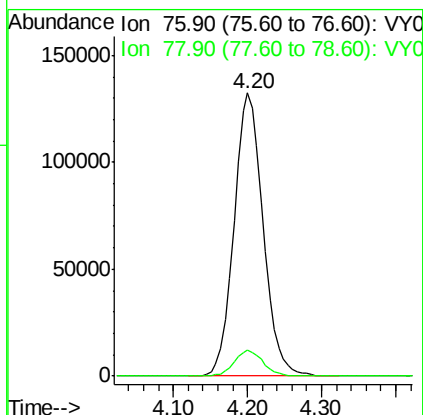
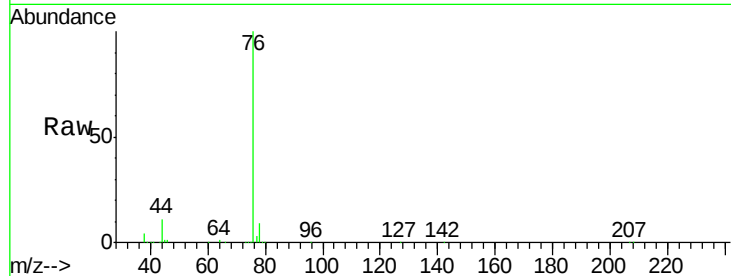




#17
Carbon Disulfide
Concen: 45.89 ug/l
RT: 4.20 min Scan# 404
Delta R.T. 0.00 min
Lab File: VY002878.D
Acq: 10 Jun 2020 16:03

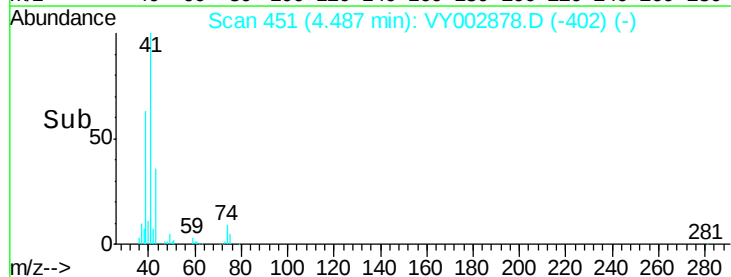
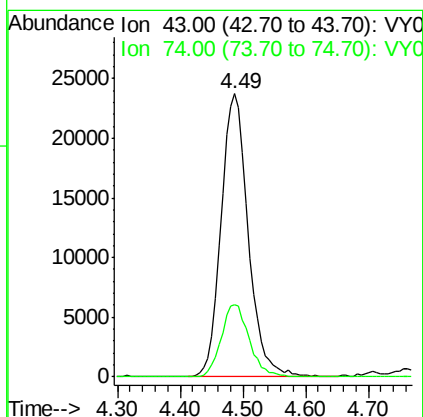
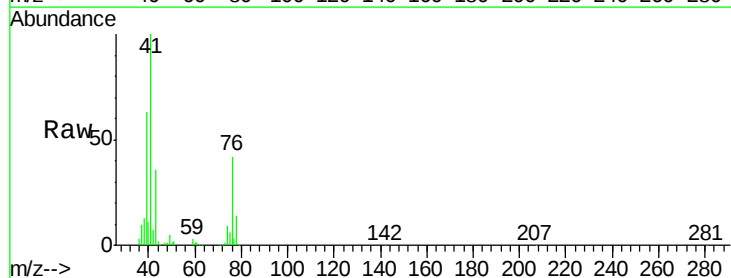
Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

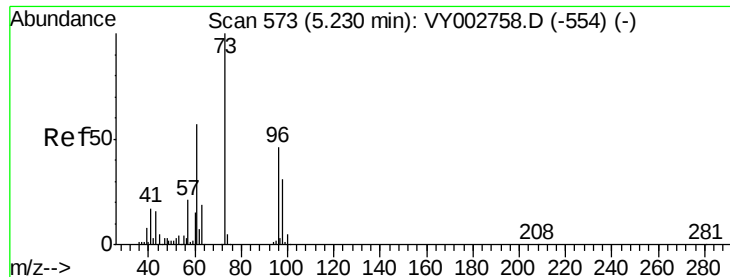
Tgt Ion: 76 Resp: 361822
Ion Ratio Lower Upper
76 100
78 9.0 6.9 10.3



#18
Methyl Acetate
Concen: 45.33 ug/l
RT: 4.49 min Scan# 451
Delta R.T. 0.00 min
Lab File: VY002878.D
Acq: 10 Jun 2020 16:03

Tgt Ion: 43 Resp: 71168
Ion Ratio Lower Upper
43 100
74 26.2 21.4 32.0

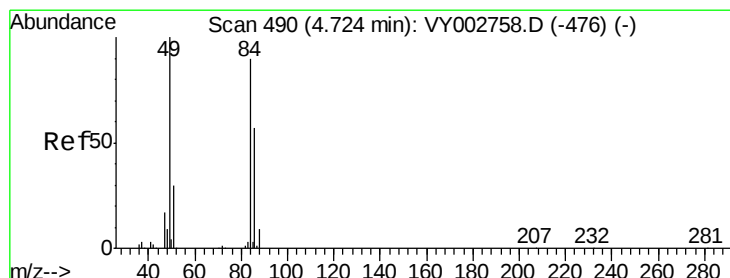
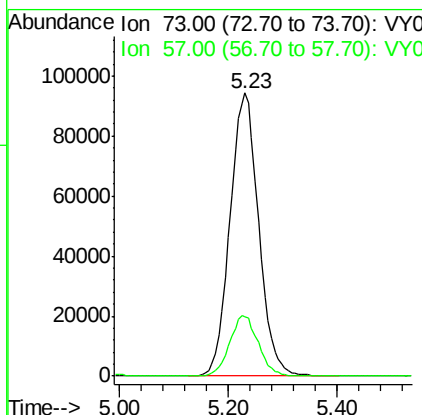
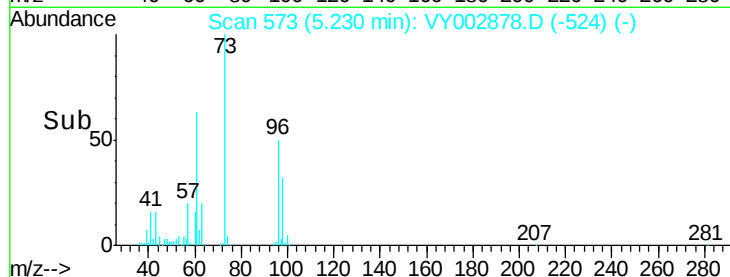
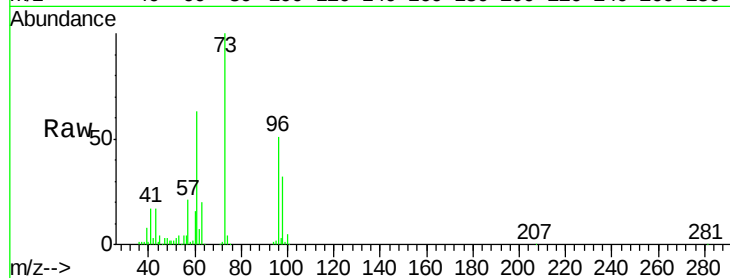




#19
Methyl tert-butyl Ether
Concen: 48.12 ug/l
RT: 5.23 min Scan# 573
Delta R.T. 0.00 min
Lab File: VY002878.D
Acq: 10 Jun 2020 16:03

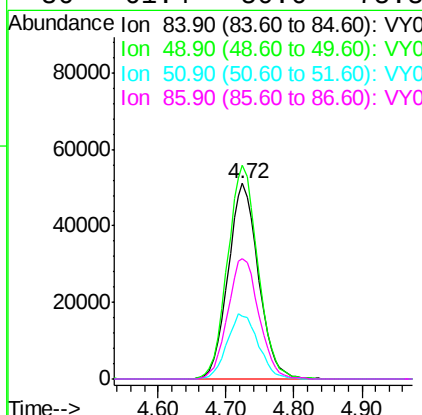
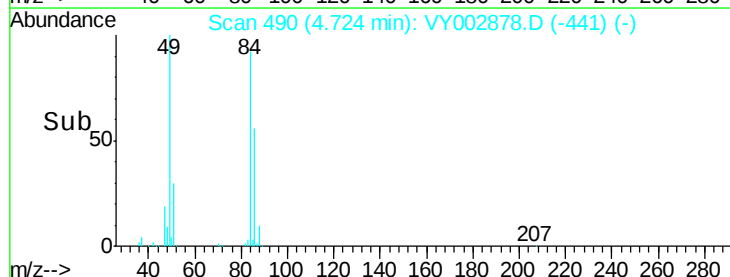
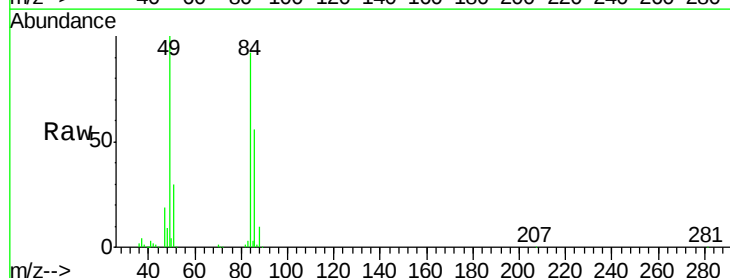
Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

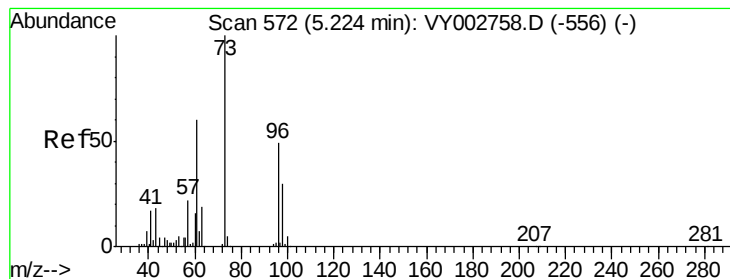
Tgt Ion: 73 Resp: 346653
Ion Ratio Lower Upper
73 100
57 20.9 17.0 25.4



#20
Methylene Chloride
Concen: 51.76 ug/l
RT: 4.72 min Scan# 490
Delta R.T. 0.00 min
Lab File: VY002878.D
Acq: 10 Jun 2020 16:03

Tgt Ion: 84 Resp: 157960
Ion Ratio Lower Upper
84 100
49 109.2 88.5 132.7
51 32.3 26.8 40.2
86 61.4 50.6 75.8





#21

trans-1,2-Dichloroethene

Concen: 50.83 ug/l

RT: 5.23 min Scan# 573

Delta R.T. 0.01 min

Lab File: VY002878.D

Acq: 10 Jun 2020 16:03

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050EC

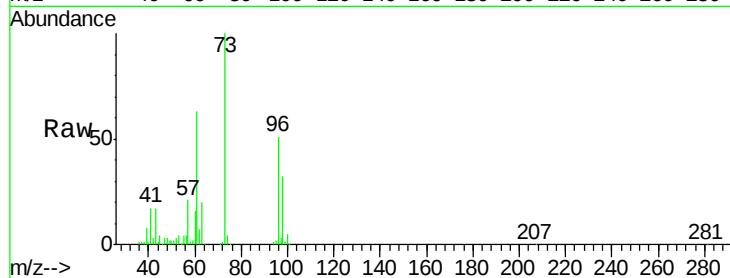
Tgt Ion: 96 Resp: 149150

Ion Ratio Lower Upper

96 100

61 124.5 96.8 145.2

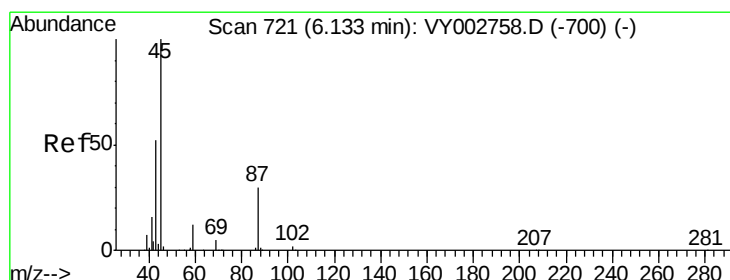
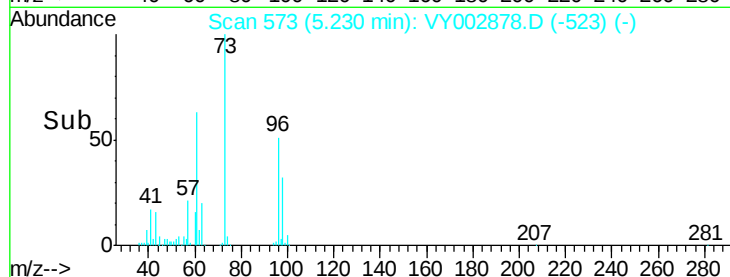
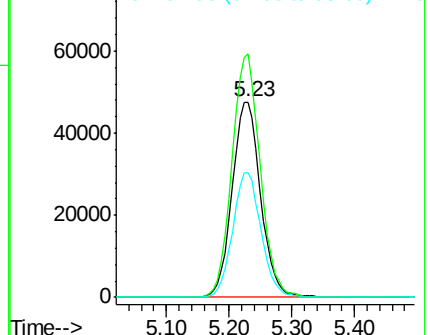
98 63.9 49.4 74.0



Abundance Ion 95.90 (95.60 to 96.60): VY0

Ion 60.90 (60.60 to 61.60): VY0

Ion 97.90 (97.60 to 98.60): VY0



#22

Diisopropyl ether

Concen: 53.27 ug/l

RT: 6.13 min Scan# 720

Delta R.T. -0.01 min

Lab File: VY002878.D

Acq: 10 Jun 2020 16:03

Tgt Ion: 45 Resp: 414245

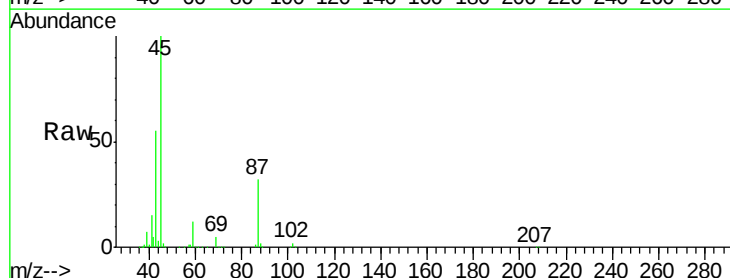
Ion Ratio Lower Upper

45 100

43 54.4 41.7 62.5

87 31.7 24.2 36.2

59 12.0 9.8 14.8



Abundance Ion 45.00 (44.70 to 45.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

Ion 87.00 (86.70 to 87.70): VY0

Ion 59.00 (58.70 to 59.70): VY0

