

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD111418\
 Data File : VD060370.D
 Acq On : 14 Nov 2018 10:20
 Operator : JC/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Quant Time: Nov 14 14:33:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 06 13:56:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	1679235	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	7.43	114	2359477	50.00	ug/l	-0.03
63) Chlorobenzene-d5	11.26	117	1893372	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	13.36	152	981286	50.00	ug/l	-0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.77	65	632325	52.59	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	105.18%	
35) Dibromofluoromethane	6.30	113	919573	52.27	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	104.54%	
50) Toluene-d8	9.43	98	2645365	51.37	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	102.74%	
62) 4-Bromofluorobenzene	12.42	95	966034	51.77	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	103.54%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.59	85	677311	51.57	ug/l	98
3) Chloromethane	1.77	50	670342	42.14	ug/l	100
4) Vinyl Chloride	1.86	62	598293	46.06	ug/l	96
5) Bromomethane	2.15	94	159983	51.91	ug/l	94
6) Chloroethane	2.26	64	197489	45.82	ug/l	98
7) Trichlorofluoromethane	2.51	101	781360	51.02	ug/l	96
8) Diethyl Ether	2.82	74	136132	49.10	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.09	101	492993	48.94	ug/l	96
10) Methyl Iodide	3.24	142	597653	45.68	ug/l	99
11) Tert butyl alcohol	3.95	59	133238	269.86	ug/l	# 92
12) 1,1-Dichloroethene	3.07	96	395355	48.25	ug/l	99
13) Acrolein	2.98	56	125231	214.66	ug/l	99
14) Allyl chloride	3.53	41	756869	48.28	ug/l	96
15) Acrylonitrile	4.07	53	735087	255.31	ug/l	99
16) Acetone	3.15	43	548615	263.05	ug/l	99
17) Carbon Disulfide	3.31	76	1175229	44.44	ug/l	99
18) Methyl Acetate	3.55	43	205330	46.17	ug/l	96
19) Methyl tert-butyl Ether	4.11	73	1228750	50.08	ug/l	98
20) Methylene Chloride	3.71	84	962758	52.04	ug/l	96
21) trans-1,2-Dichloroethene	4.09	96	916385	50.37	ug/l	99
22) Diisopropyl ether	4.84	45	2988150	51.02	ug/l	94
23) Vinyl Acetate	4.79	43	7365445	252.72	ug/l	99
24) 1,1-Dichloroethane	4.74	63	1552736	51.70	ug/l	99
25) 2-Butanone	5.61	43	1143145	263.70	ug/l	98
26) 2,2-Dichloropropane	5.57	77	1267348	54.27	ug/l	96
27) cis-1,2-Dichloroethene	5.58	96	981453	51.78	ug/l	97
28) Bromochloromethane	5.91	49	709293	53.52	ug/l	89
29) Tetrahydrofuran	5.93	42	569446	249.15	ug/l	98
30) Chloroform	6.09	83	1584302	52.76	ug/l	99
31) Cyclohexane	6.34	56	1357919	47.30	ug/l	97
32) 1,1,1-Trichloroethane	6.28	97	1286566	50.87	ug/l	99
36) 1,1-Dichloropropene	6.50	75	1191414	51.11	ug/l	98
37) Ethyl Acetate	5.68	43	558996	52.11	ug/l	98
38) Carbon Tetrachloride	6.48	117	1092137	50.51	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.02	83	1369774	51.09	ug/l	99
40) Benzene	6.78	78	3174634	53.35	ug/l	99
41) Methacrylonitrile	5.93	41	616553	50.22	ug/l #	95
42) 1,2-Dichloroethane	6.88	62	822948	52.84	ug/l	98
43) Isopropyl Acetate	8.33	43	690018	51.21	ug/l #	99
44) Trichloroethene	7.72	130	961330	53.30	ug/l	99
45) 1,2-Dichloropropane	8.09	63	787072	52.45	ug/l	97
46) Dibromomethane	8.19	93	465485	52.96	ug/l	99
47) Bromodichloromethane	8.47	83	1097372	52.98	ug/l	99
48) Methyl methacrylate	8.22	41	420358	51.36	ug/l	96
49) 1,4-Dioxane	8.21	88	77400	1093.01	ug/l	91
51) 4-Methyl-2-Pentanone	9.33	43	2277021	259.65	ug/l	99
52) Toluene	9.53	92	1942632	51.11	ug/l	100
53) t-1,3-Dichloropropene	9.90	75	946128	54.07	ug/l	98
54) cis-1,3-Dichloropropene	9.08	75	1205144	53.69	ug/l	98
55) 1,1,2-Trichloroethane	10.16	97	555557	50.43	ug/l	98
56) Ethyl methacrylate	10.01	69	549683	54.27	ug/l	98
57) 1,3-Dichloropropane	10.36	76	900466	53.64	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.90	63	1572419	256.74	ug/l	100
59) 2-Hexanone	10.47	43	1737356	277.96	ug/l	100
60) Dibromochloromethane	10.63	129	735519	54.92	ug/l	98
61) 1,2-Dibromoethane	10.74	107	580456	52.59	ug/l	99
64) Tetrachloroethene	10.23	164	895376	52.97	ug/l	97
65) Chlorobenzene	11.29	112	2107941	51.38	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.40	131	727569	54.20	ug/l	97
67) Ethyl Benzene	11.41	91	3500901	49.89	ug/l	100
68) m/p-Xylenes	11.55	106	2629301	101.57	ug/l	99
69) o-Xylene	11.92	106	1294979	51.78	ug/l	93
70) Styrene	11.94	104	2073142	51.29	ug/l	99
71) Bromoform	12.10	173	490351	54.36	ug/l	99
73) Isopropylbenzene	12.26	105	3483055	48.72	ug/l	99
74) N-amyl acetate	12.12	43	875985	47.79	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.55	83	576839	49.33	ug/l	97
76) 1,2,3-Trichloropropane	12.58	75	591911	50.42	ug/l	97
77) Bromobenzene	12.52	156	963505	50.74	ug/l	97
78) n-propylbenzene	12.62	91	4402663	49.34	ug/l	99
79) 2-Chlorotoluene	12.69	91	2435530	49.83	ug/l	97
80) 1,3,5-Trimethylbenzene	12.78	105	2647411	47.65	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.33	75	174870	52.33	ug/l	98
82) 4-Chlorotoluene	12.80	91	2659480	48.44	ug/l	89
83) tert-Butylbenzene	13.04	119	3173900	51.45	ug/l	96
84) 1,2,4-Trimethylbenzene	13.09	105	2721420	49.04	ug/l	95
85) sec-Butylbenzene	13.21	105	3756857	49.64	ug/l	94
86) p-Isopropyltoluene	13.33	119	2927589	48.04	ug/l	99
87) 1,3-Dichlorobenzene	13.30	146	1716791	50.81	ug/l	96
88) 1,4-Dichlorobenzene	13.38	146	1673237	50.71	ug/l	98
89) n-Butylbenzene	13.64	91	3061991	52.00	ug/l	99
90) Hexachloroethane	13.84	117	750659	51.94	ug/l	92
91) 1,2-Dichlorobenzene	13.65	146	1376109	49.59	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.22	75	71084	50.36	ug/l	89

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Quant Title : SW846 8260
QLast Update : Tue Nov 06 13:56:04 2018
Response via : Initial Calibration

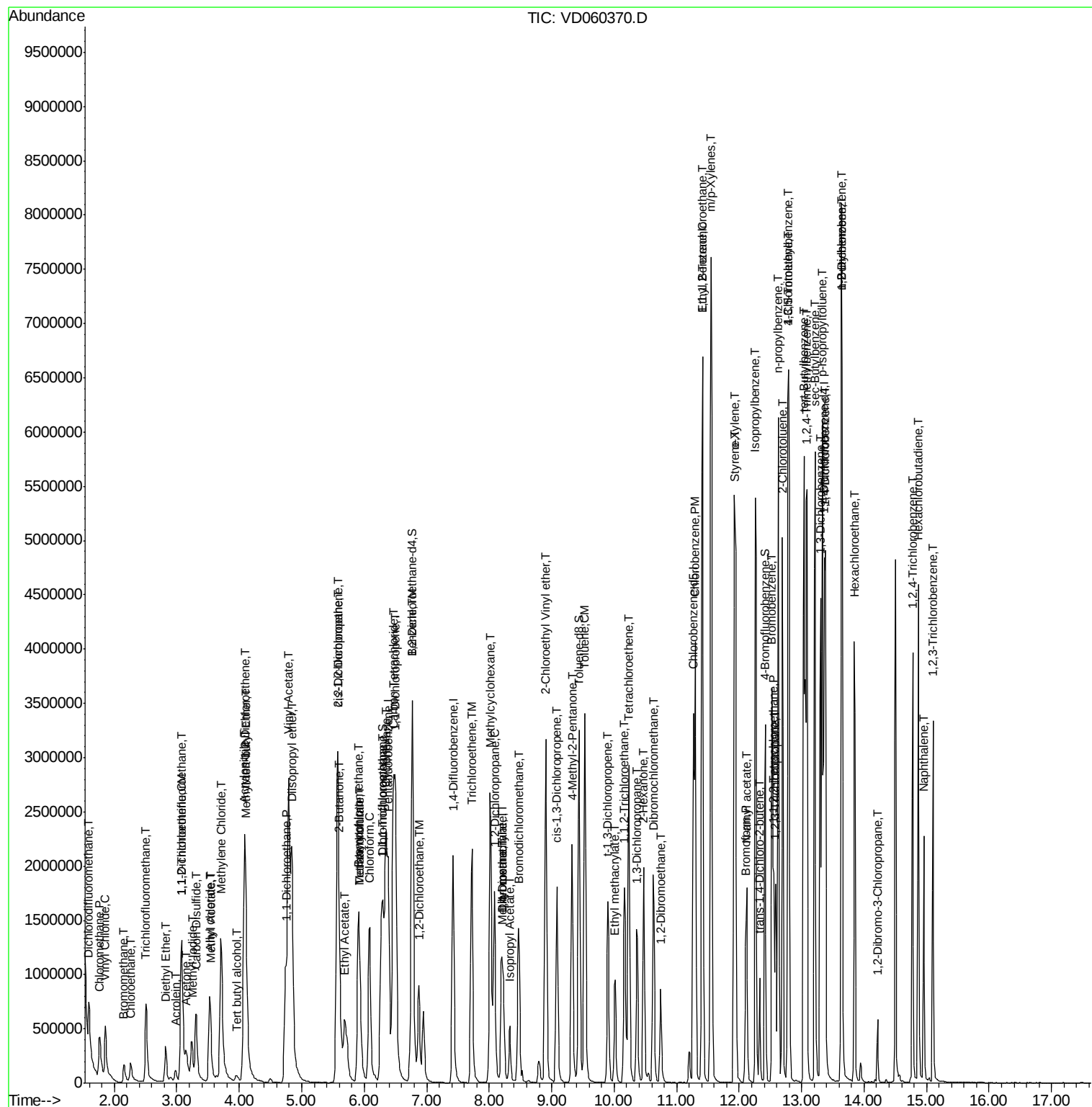
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.78	180	1089166	49.50	ug/l	97
94) Hexachlorobutadiene	14.87	225	793841	48.23	ug/l	99
95) Naphthalene	14.96	128	1328075	49.43	ug/l	99
96) 1,2,3-Trichlorobenzene	15.10	180	873107	49.52	ug/l	99

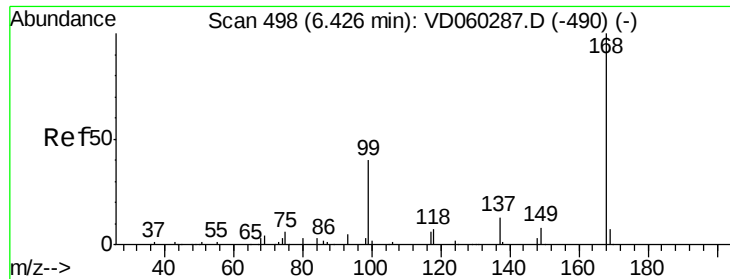
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD111418\
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 Acq On : 14 Nov 2018 10:20
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 QLast Update : Tue Nov 06 13:56:04 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.39 min Scan# 495

Delta R.T. -0.03 min

Lab File: VD060370.D

Acq: 14 Nov 2018 10:20

Instrument :

MSVOA_D

ClientSampleId :

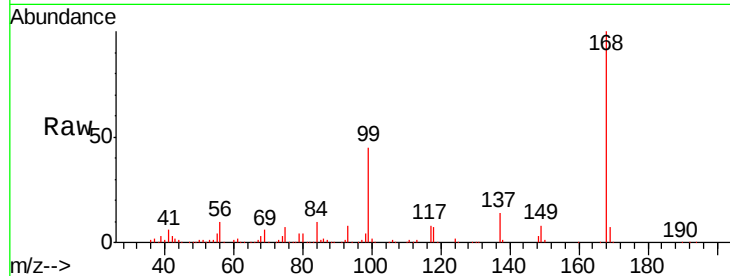
VSTDCCC050

Tgt Ion:168 Resp: 1679235

Ion Ratio Lower Upper

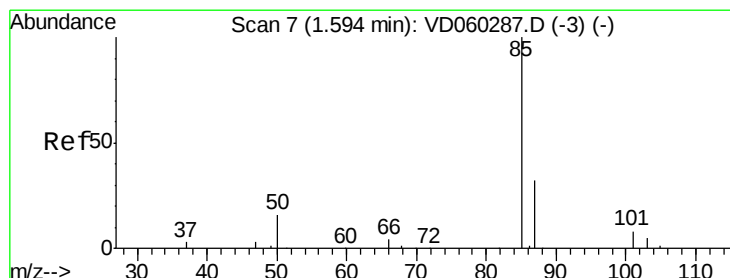
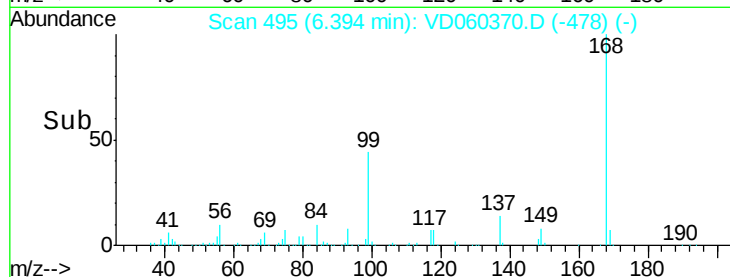
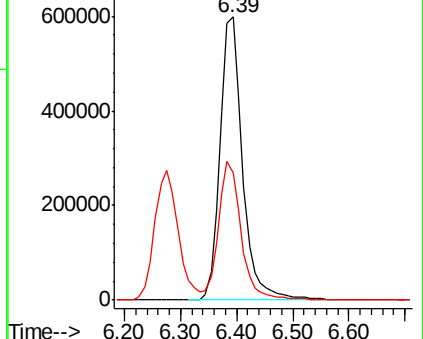
168 100

99 44.9 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 51.57 ug/l

RT: 1.59 min Scan# 7

Delta R.T. -0.00 min

Lab File: VD060370.D

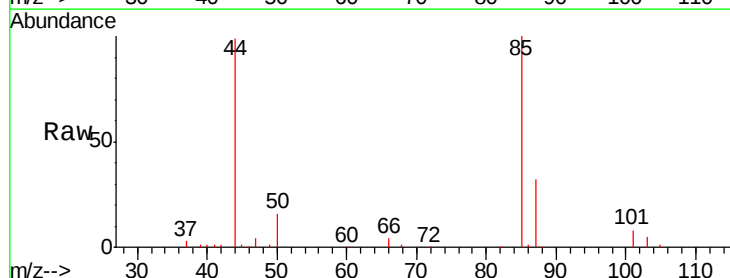
Acq: 14 Nov 2018 10:20

Tgt Ion: 85 Resp: 677311

Ion Ratio Lower Upper

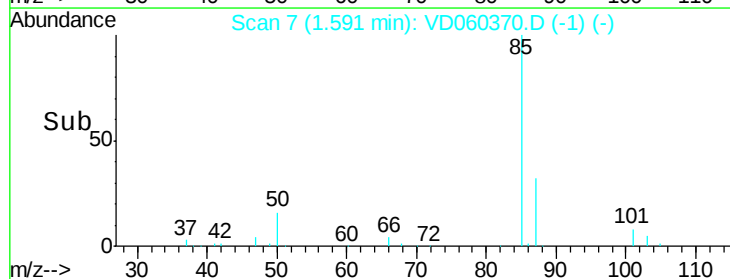
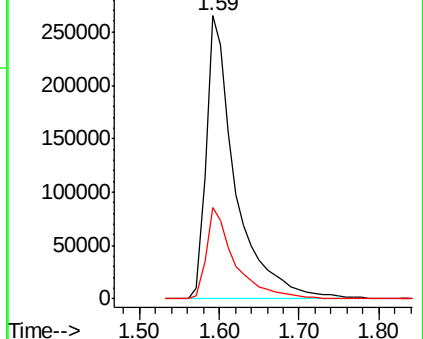
85 100

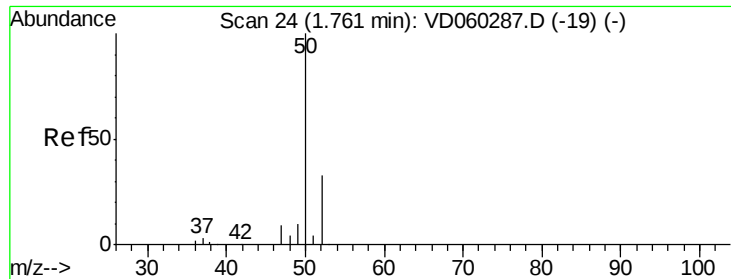
87 32.5 16.8 50.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 42.14 ug/l

RT: 1.77 min Scan# 25

Delta R.T. 0.01 min

Lab File: VD060370.D

Acq: 14 Nov 2018 10:20

Instrument :

MSVOA_D

ClientSampleId :

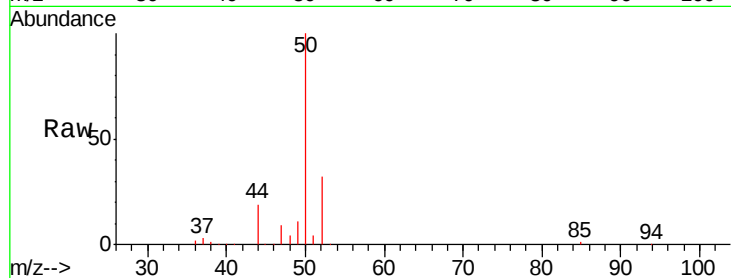
VSTDCCC050

Tgt Ion: 50 Resp: 670342

Ion Ratio Lower Upper

50 100

52 32.2 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.77

250000

200000

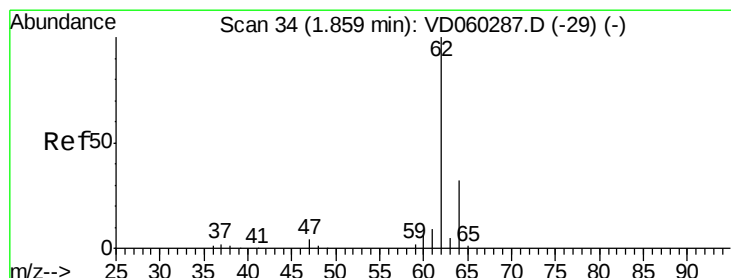
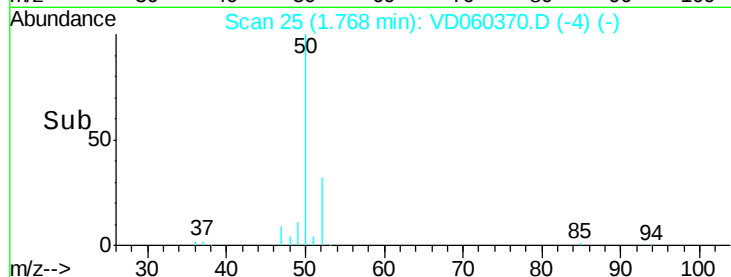
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 46.06 ug/l

RT: 1.86 min Scan# 34

Delta R.T. -0.00 min

Lab File: VD060370.D

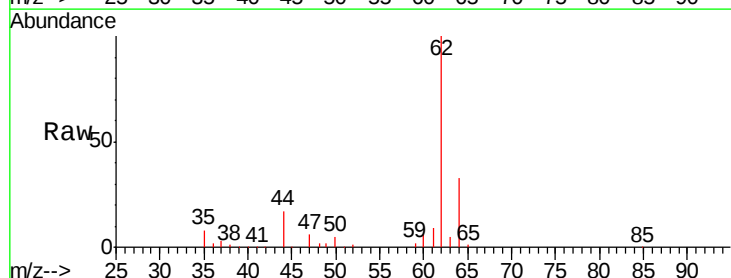
Acq: 14 Nov 2018 10:20

Tgt Ion: 62 Resp: 598293

Ion Ratio Lower Upper

62 100

64 33.3 24.9 37.3



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.86

300000

250000

200000

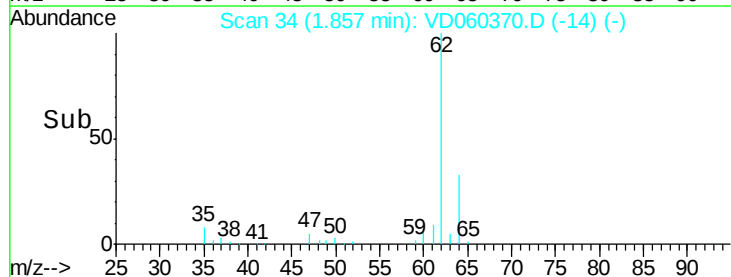
150000

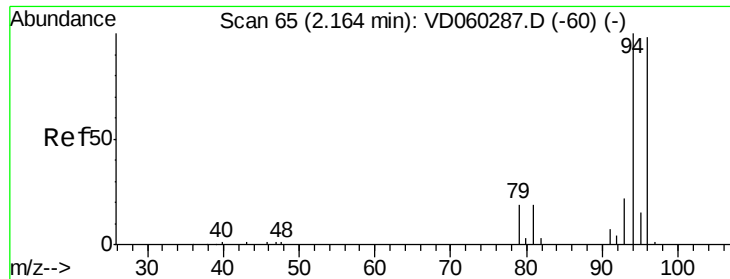
100000

50000

0

Time-->





#5

Bromomethane

Concen: 51.91 ug/l

RT: 2.15 min Scan# 64

Delta R.T. -0.01 min

Lab File: VD060370.D

Acq: 14 Nov 2018 10:20

Instrument :

MSVOA_D

ClientSampleId :

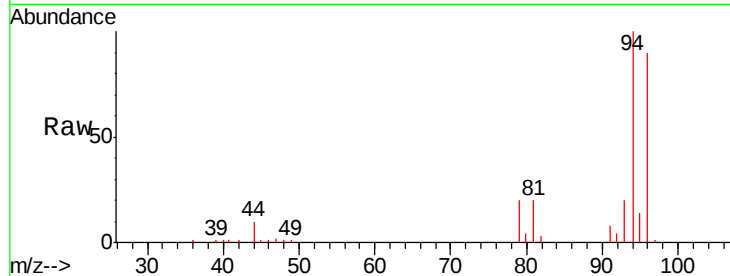
VSTDCCC050

Tgt Ion: 94 Resp: 159983

Ion Ratio Lower Upper

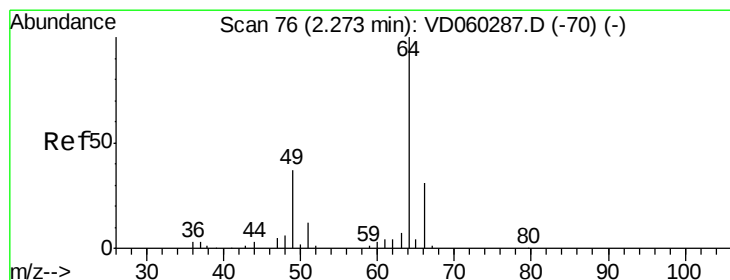
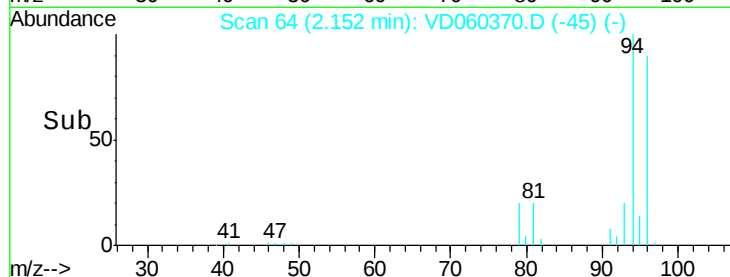
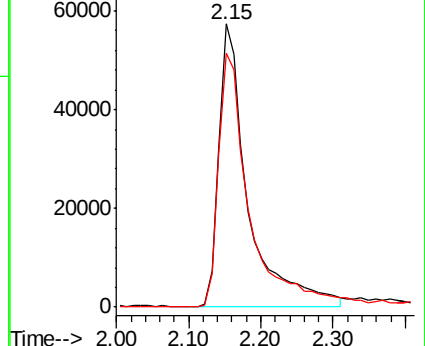
94 100

96 89.9 76.6 114.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 45.82 ug/l

RT: 2.26 min Scan# 75

Delta R.T. -0.01 min

Lab File: VD060370.D

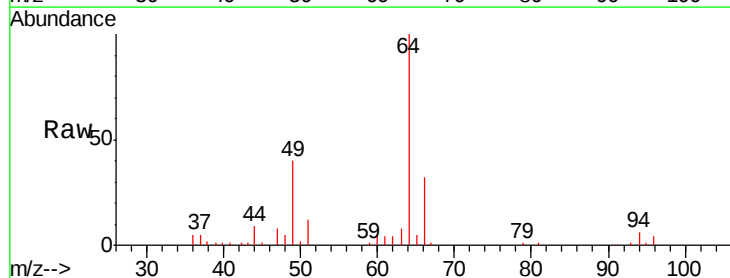
Acq: 14 Nov 2018 10:20

Tgt Ion: 64 Resp: 197489

Ion Ratio Lower Upper

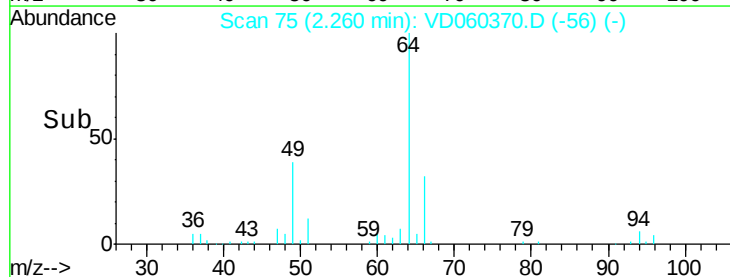
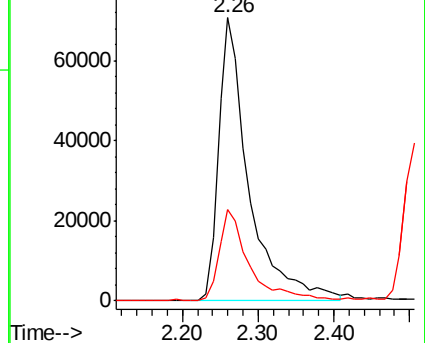
64 100

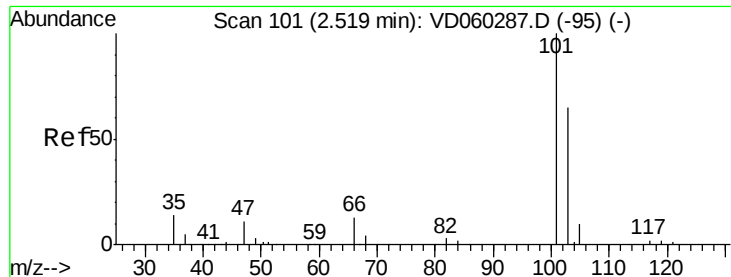
66 32.1 26.6 40.0



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

Trichlorofluoromethane

Concen: 51.02 ug/l

RT: 2.51 min Scan# 100

Delta R.T. -0.01 min

Lab File: VD060370.D

Acq: 14 Nov 2018 10:20

Instrument :

MSVOA_D

ClientSampleId :

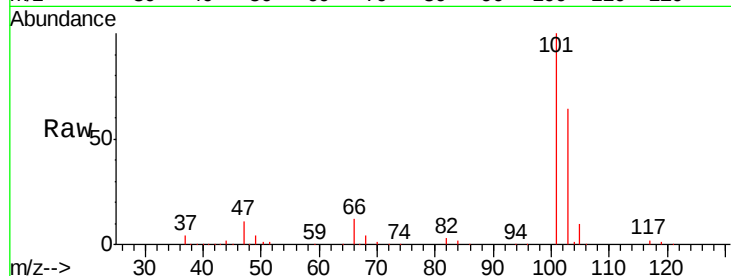
VSTDCCC050

Tgt Ion: 101 Resp: 781360

Ion Ratio Lower Upper

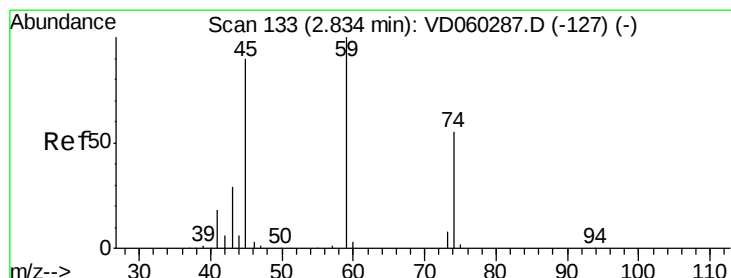
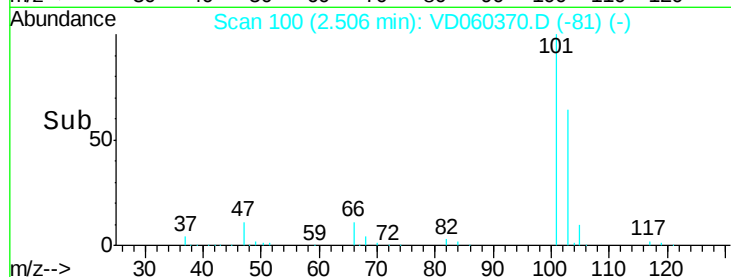
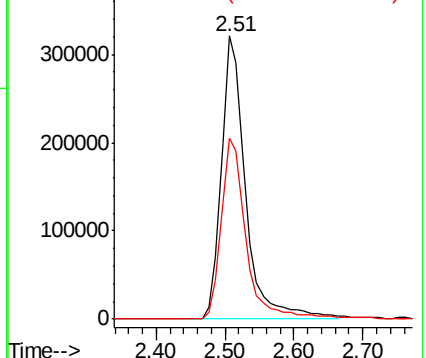
101 100

103 63.9 53.6 80.4



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V



#8

Diethyl Ether

Concen: 49.10 ug/l

RT: 2.82 min Scan# 132

Delta R.T. -0.01 min

Lab File: VD060370.D

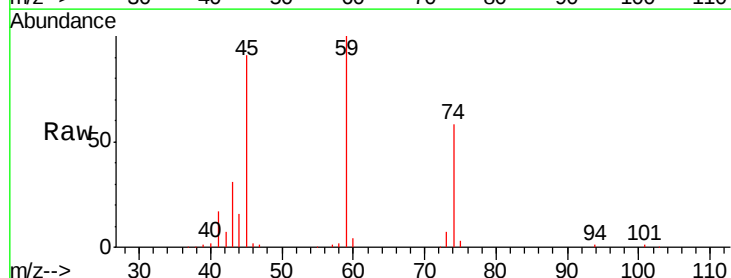
Acq: 14 Nov 2018 10:20

Tgt Ion: 74 Resp: 136132

Ion Ratio Lower Upper

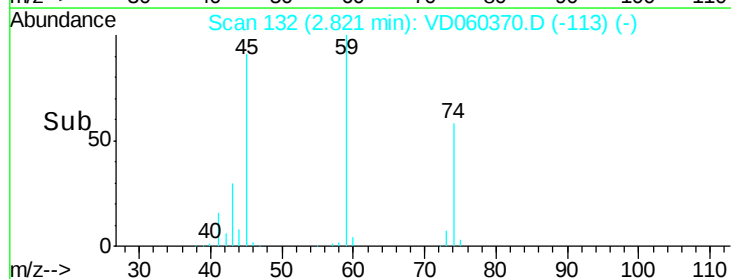
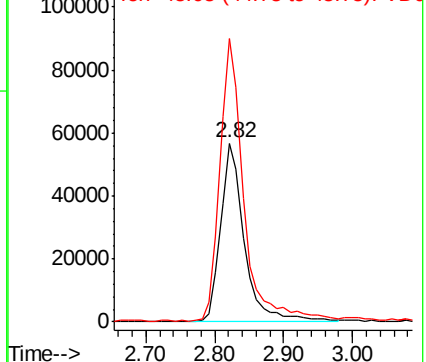
74 100

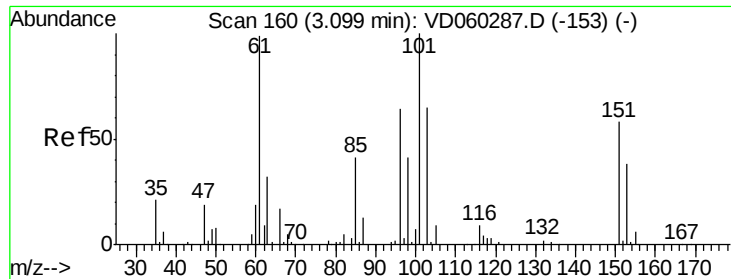
45 158.5 84.8 254.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.94 ug/l

RT: 3.09 min Scan# 159

Delta R.T. -0.01 min

Lab File: VD060370.D

Acq: 14 Nov 2018 10:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

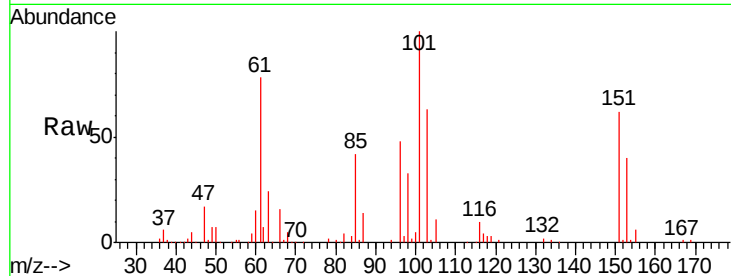
Tgt Ion:101 Resp: 492993

Ion Ratio Lower Upper

101 100

85 41.5 31.4 47.0

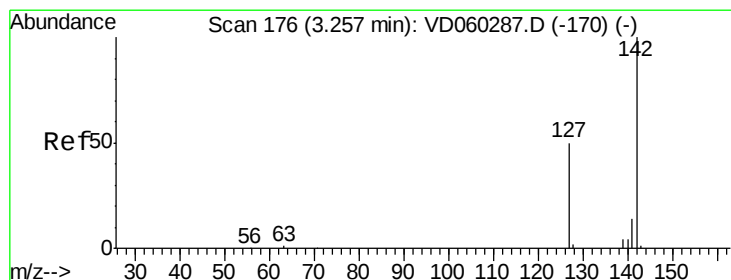
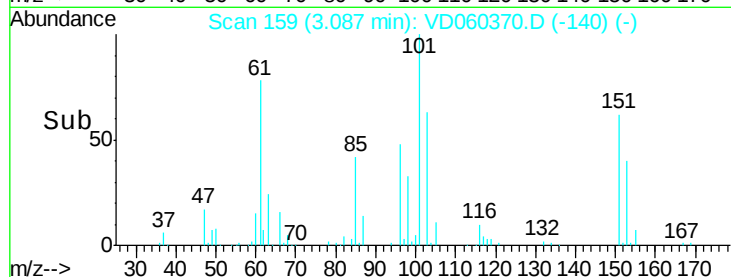
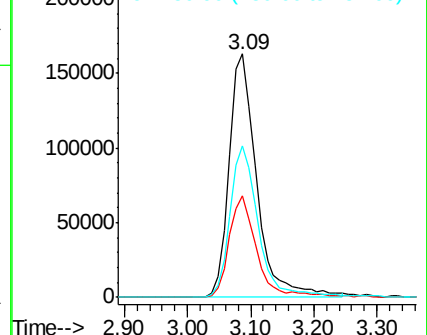
151 62.2 47.4 71.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 45.68 ug/l

RT: 3.24 min Scan# 175

Delta R.T. -0.01 min

Lab File: VD060370.D

Acq: 14 Nov 2018 10:20

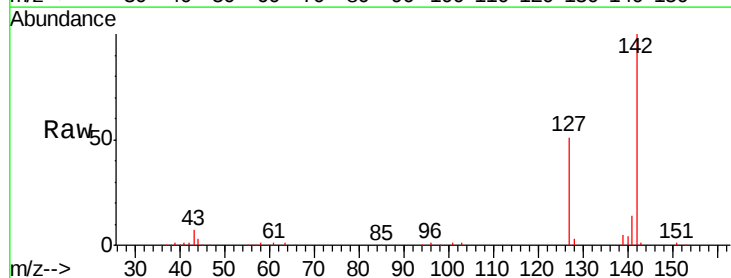
Tgt Ion:142 Resp: 597653

Ion Ratio Lower Upper

142 100

127 50.8 41.0 61.6

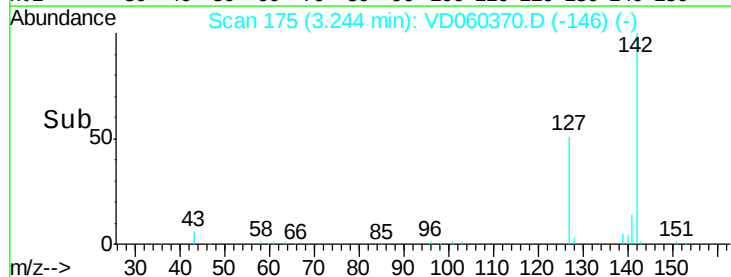
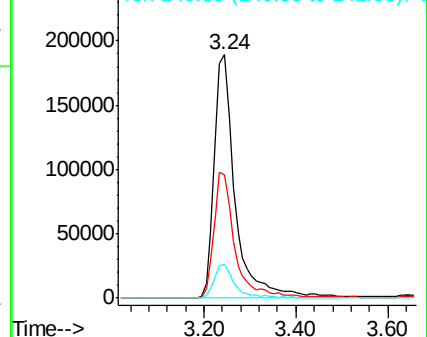
141 14.0 11.9 17.9

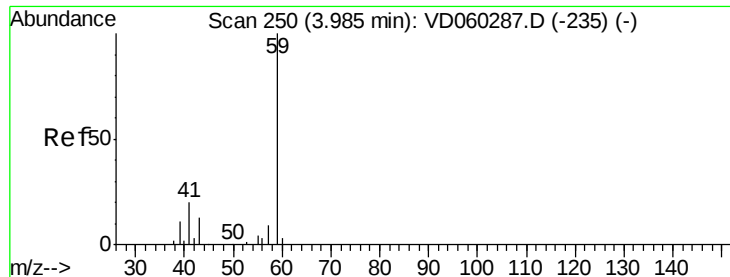


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



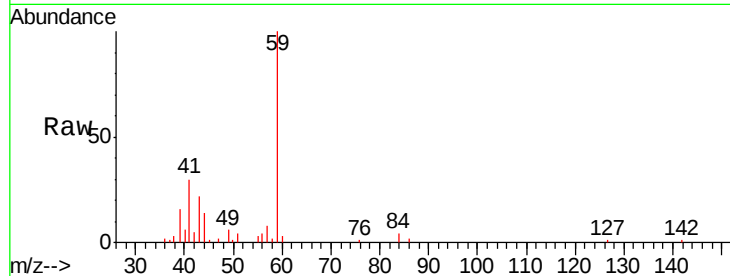


#11

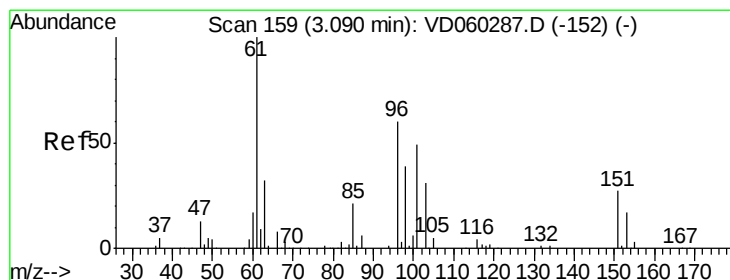
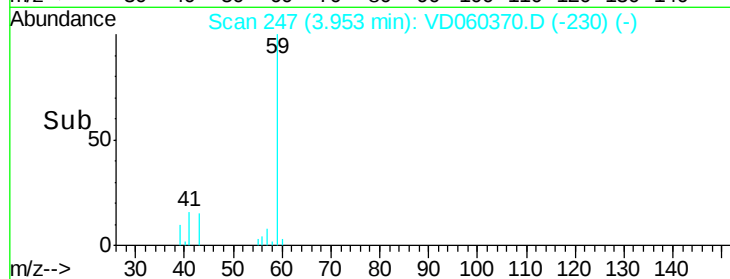
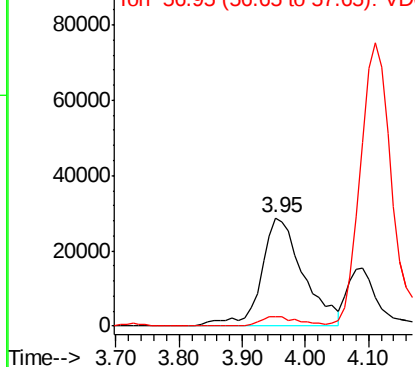
Tert butyl alcohol
 Concen: 269.86 ug/l
 RT: 3.95 min Scan# 247
 Delta R.T. -0.03 min
 Lab File: VD060370.D
 Acq: 14 Nov 2018 10:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 59 Resp: 133238
 Ion Ratio Lower Upper
 59 100
 57 8.3 9.3 13.9#



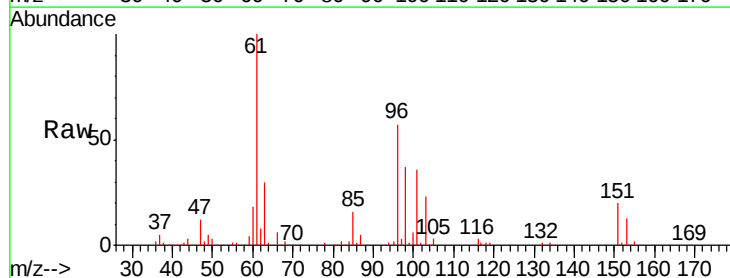
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



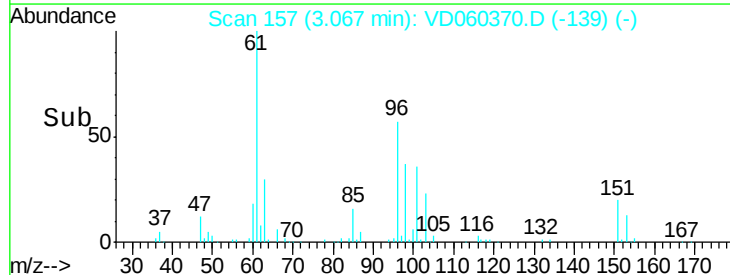
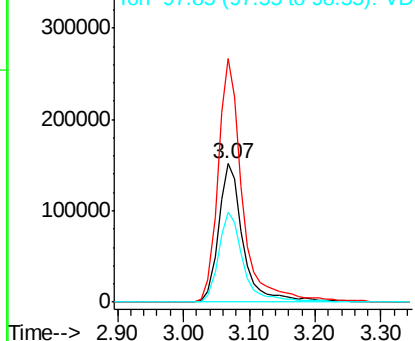
#12

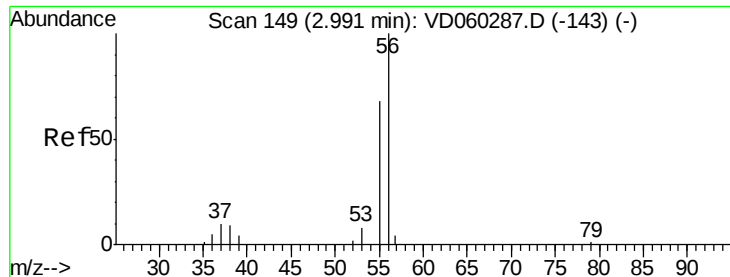
1,1-Dichloroethene
 Concen: 48.25 ug/l
 RT: 3.07 min Scan# 157
 Delta R.T. -0.02 min
 Lab File: VD060370.D
 Acq: 14 Nov 2018 10:20

Tgt Ion: 96 Resp: 395355
 Ion Ratio Lower Upper
 96 100
 61 176.3 142.2 213.4
 98 65.3 52.6 79.0



Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC





#13

Acrolein

Concen: 214.66 ug/l

RT: 2.98 min Scan# 148

Delta R.T. -0.01 min

Lab File: VD060370.D

Acq: 14 Nov 2018 10:20

Instrument :

MSVOA_D

ClientSampleId :

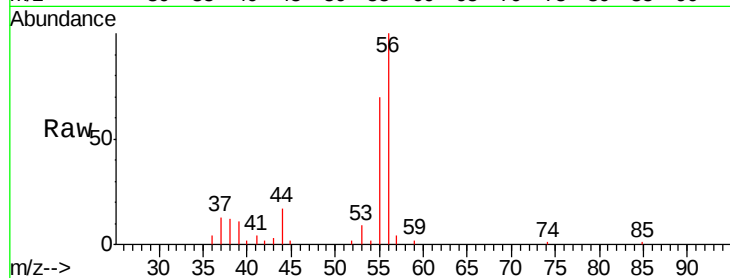
VSTDCCC050

Tgt Ion: 56 Resp: 125231

Ion Ratio Lower Upper

56 100

55 70.5 57.0 85.6



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

2.98

40000

30000

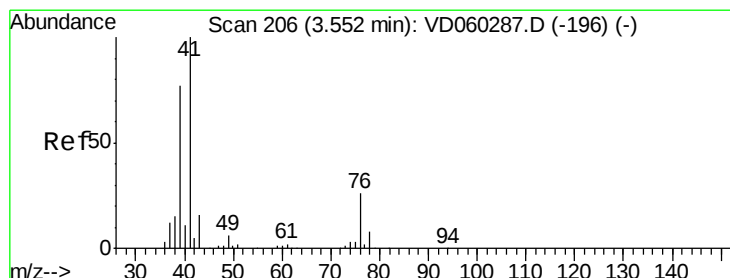
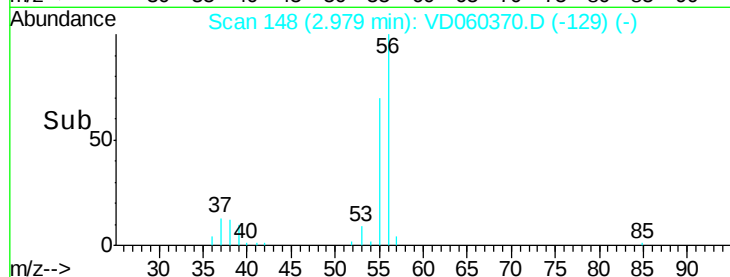
20000

10000

0

Time-->

2.90 3.00 3.10



#14

Allyl chloride

Concen: 48.28 ug/l

RT: 3.53 min Scan# 204

Delta R.T. -0.02 min

Lab File: VD060370.D

Acq: 14 Nov 2018 10:20

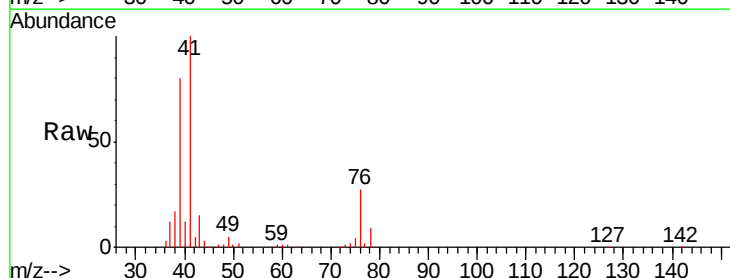
Tgt Ion: 41 Resp: 756869

Ion Ratio Lower Upper

41 100

39 79.7 60.4 90.6

76 27.5 21.8 32.8



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

3.53

300000

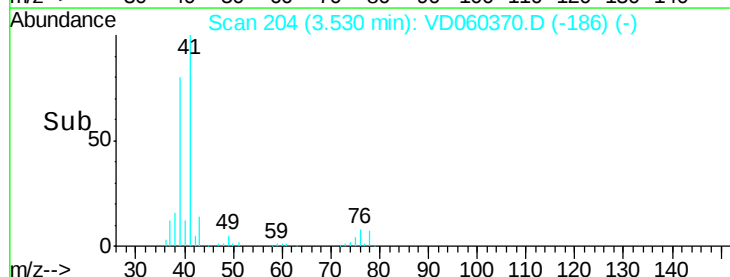
200000

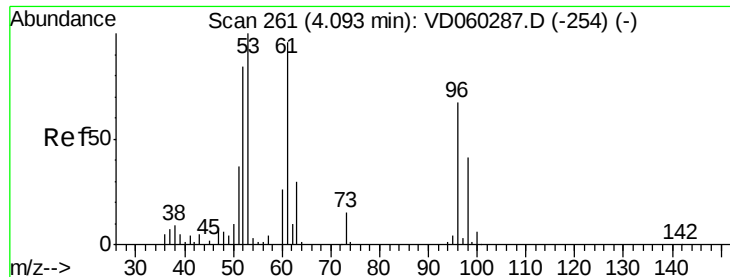
100000

0

Time-->

3.40 3.50 3.60





#15

Acrylonitrile

Concen: 255.31 ug/l

RT: 4.07 min Scan# 259

Delta R.T. -0.02 min

Lab File: VD060370.D

Acq: 14 Nov 2018 10:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

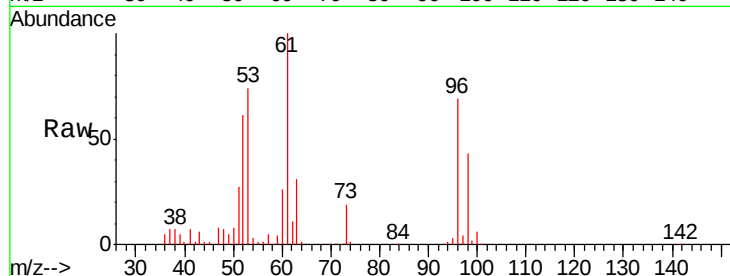
Tgt Ion: 53 Resp: 735087

Ion Ratio Lower Upper

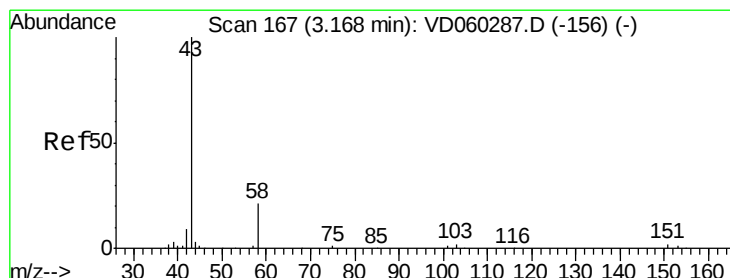
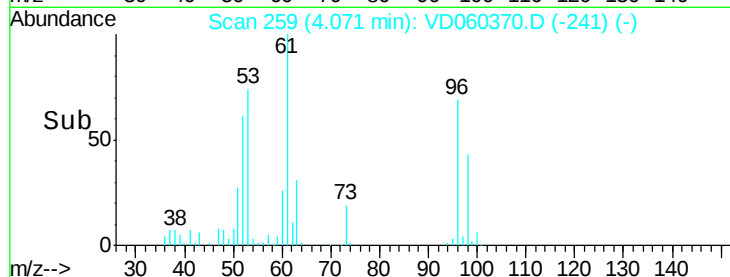
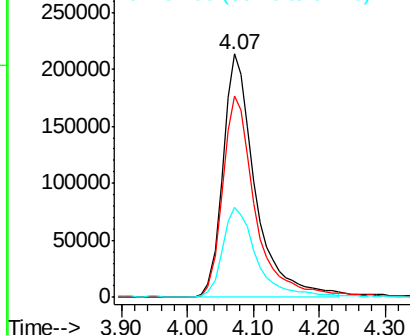
53 100

52 82.9 67.0 100.4

51 36.9 29.9 44.9



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



#16

Acetone

Concen: 263.05 ug/l

RT: 3.15 min Scan# 165

Delta R.T. -0.02 min

Lab File: VD060370.D

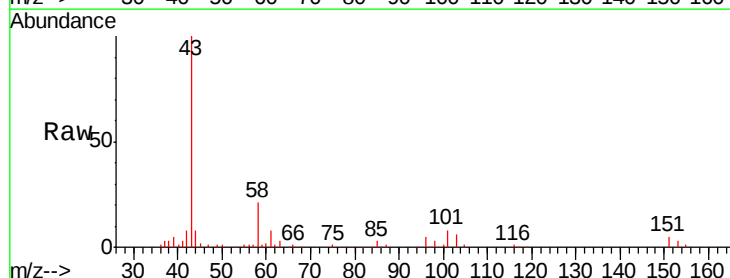
Acq: 14 Nov 2018 10:20

Tgt Ion: 43 Resp: 548615

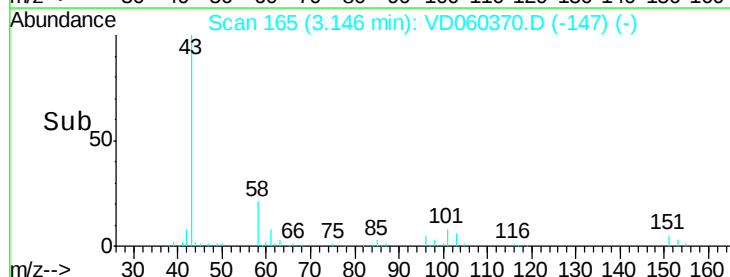
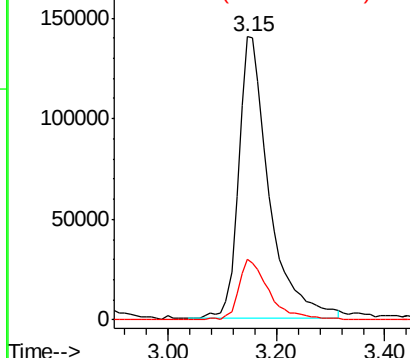
Ion Ratio Lower Upper

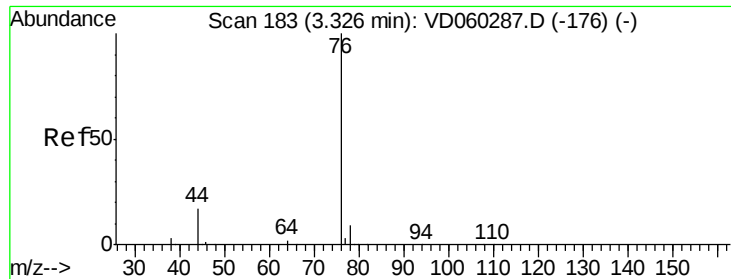
43 100

58 21.4 16.9 25.3



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

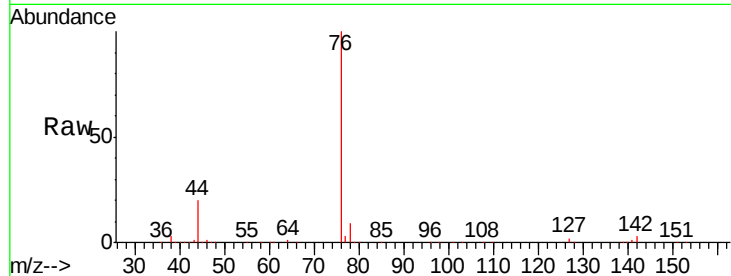




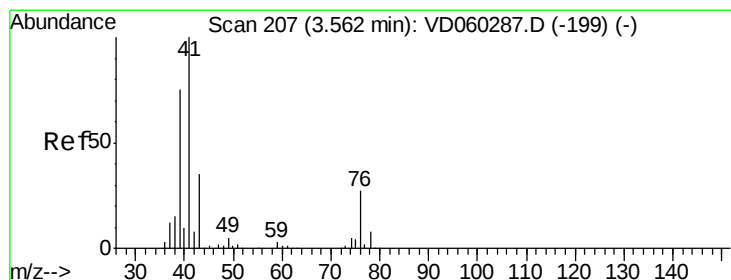
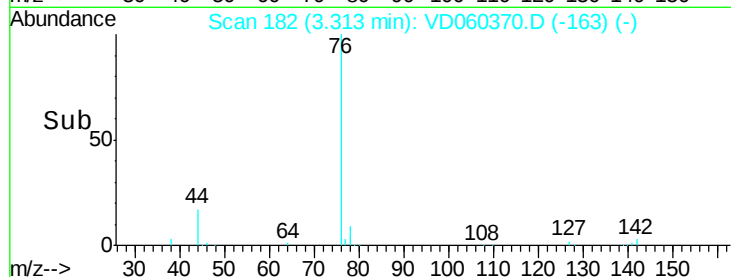
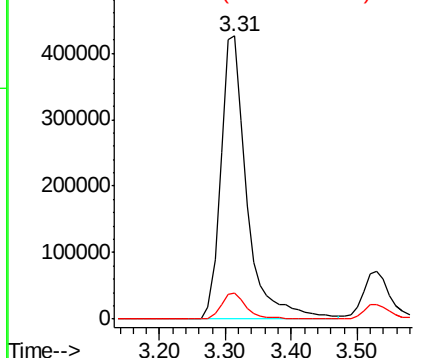
#17
Carbon Disulfide
Concen: 44.44 ug/l
RT: 3.31 min Scan# 182
Delta R.T. -0.01 min
Lab File: VD060370.D
Acq: 14 Nov 2018 10:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 1175229
Ion Ratio Lower Upper
76 100
78 9.1 7.0 10.4

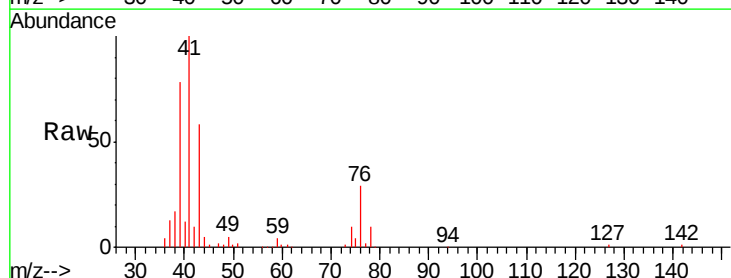


Abundance Ion 75.85 (75.55 to 76.55): VDC
Ion 77.85 (77.55 to 78.55): VDC

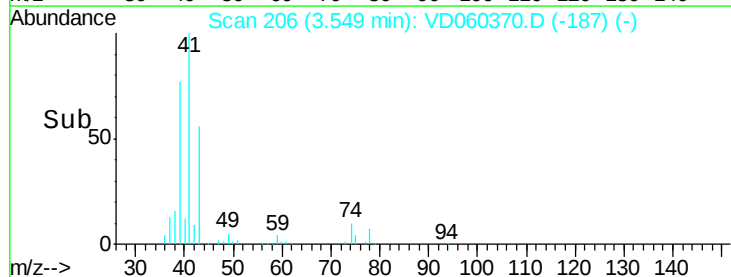
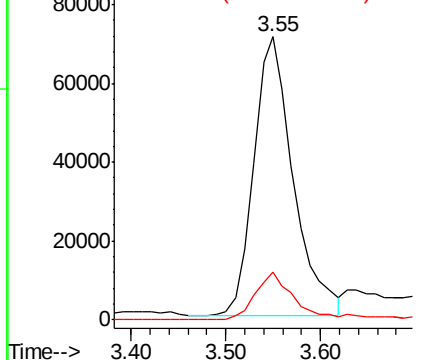


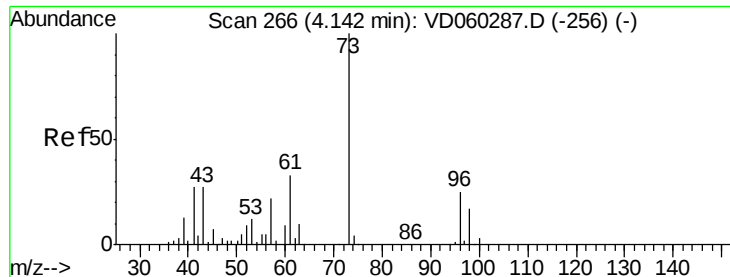
#18
Methyl Acetate
Concen: 46.17 ug/l
RT: 3.55 min Scan# 206
Delta R.T. -0.01 min
Lab File: VD060370.D
Acq: 14 Nov 2018 10:20

Tgt Ion: 43 Resp: 205330
Ion Ratio Lower Upper
43 100
74 17.1 12.4 18.6



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC





#19

Methyl tert-butyl Ether

Concen: 50.08 ug/l

RT: 4.11 min Scan# 263

Delta R.T. -0.03 min

Lab File: VD060370.D

Acq: 14 Nov 2018 10:20

Instrument :

MSVOA_D

ClientSampleId :

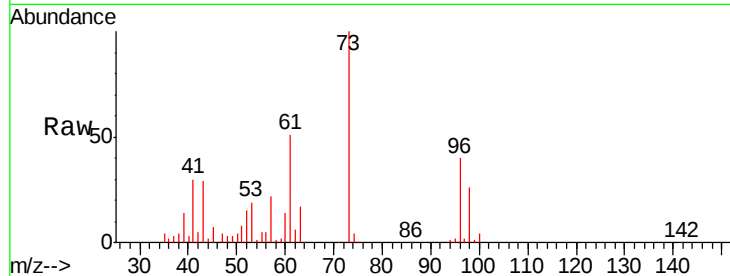
VSTDCCC050

Tgt Ion: 73 Resp: 1228750

Ion Ratio Lower Upper

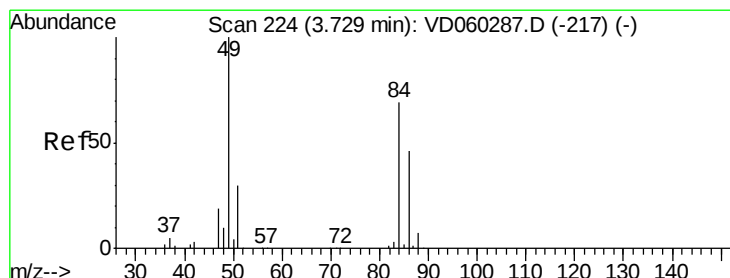
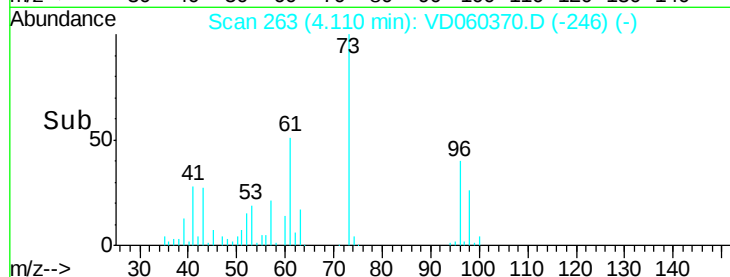
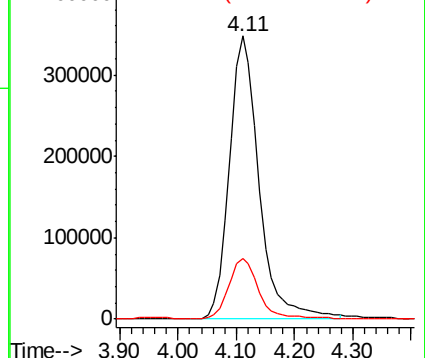
73 100

57 21.6 18.1 27.1



Abundance Ion 73.00 (72.70 to 73.70): VDC

Ion 57.05 (56.75 to 57.75): VDC



#20

Methylene Chloride

Concen: 52.04 ug/l

RT: 3.71 min Scan# 222

Delta R.T. -0.02 min

Lab File: VD060370.D

Acq: 14 Nov 2018 10:20

Tgt Ion: 84 Resp: 962758

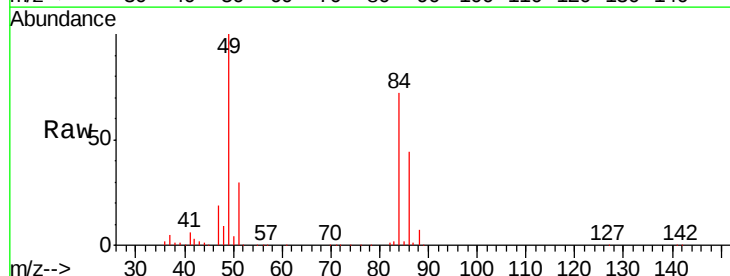
Ion Ratio Lower Upper

84 100

49 139.8 115.6 173.4

51 41.4 35.6 53.4

86 61.6 52.3 78.5

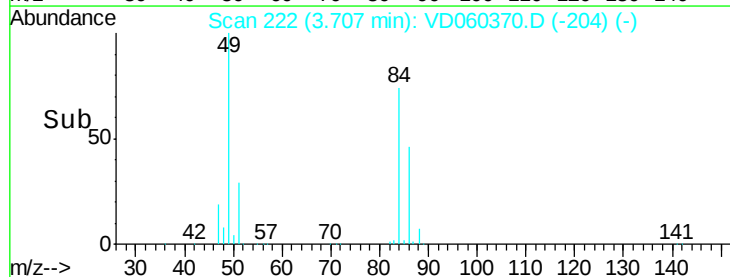
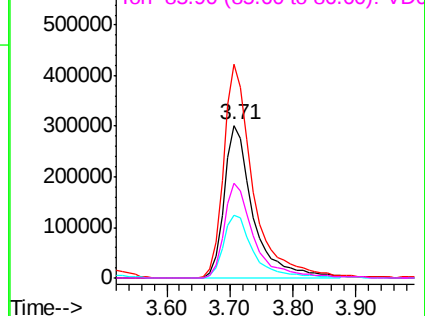


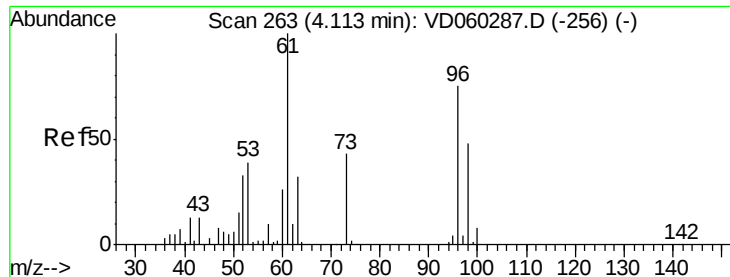
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#21

trans-1,2-Dichloroethene

Concen: 50.37 ug/l

RT: 4.09 min Scan# 261

Delta R.T. -0.02 min

Lab File: VD060370.D

Acq: 14 Nov 2018 10:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

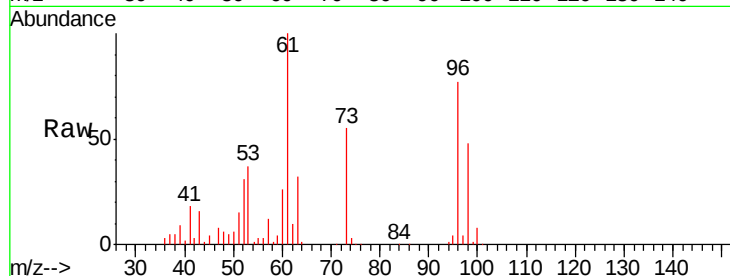
Tgt Ion: 96 Resp: 916385

Ion Ratio Lower Upper

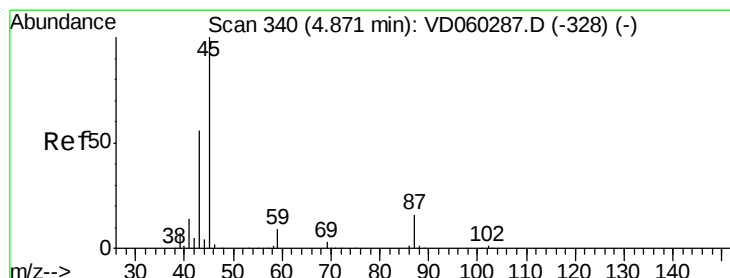
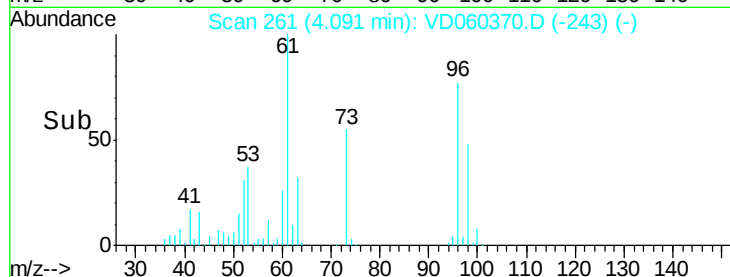
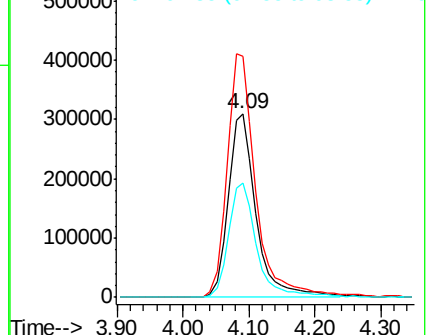
96 100

61 130.7 105.8 158.6

98 62.2 50.8 76.2



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 51.02 ug/l

RT: 4.84 min Scan# 337

Delta R.T. -0.03 min

Lab File: VD060370.D

Acq: 14 Nov 2018 10:20

Tgt Ion: 45 Resp: 2988150

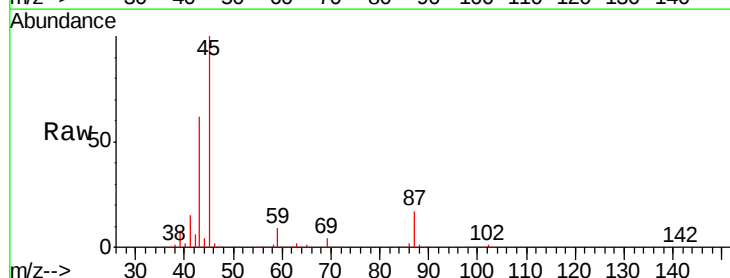
Ion Ratio Lower Upper

45 100

43 62.0 44.9 67.3

87 17.4 13.9 20.9

59 9.1 7.0 10.6



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC

