

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080819\
 Data File : VD063466.D
 Acq On : 9 Aug 2019 5:42
 Operator : JC/SY
 Sample : K4237-06MSD
 Misc : 4.50u/5ml/MSVOA D/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-05(13-14)MSD

Quant Time: Aug 09 07:06:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	806079	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	1192063	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	961375	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	408965	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	463364	51.81	ug/l	0.01
Spiked Amount			Recovery	=	103.62%	
35) Dibromofluoromethane	6.92	113	505347	49.65	ug/l	0.01
Spiked Amount			Recovery	=	99.30%	
50) Toluene-d8	10.42	98	1049492	46.08	ug/l	0.01
Spiked Amount			Recovery	=	92.16%	
62) 4-Bromofluorobenzene	13.56	95	411066	39.60	ug/l	0.00
Spiked Amount			Recovery	=	79.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	428926	43.531	ug/l	98
3) Chloromethane	1.73	50	382924	50.020	ug/l #	87
4) Vinyl Chloride	1.84	62	395285	49.878	ug/l	97
5) Bromomethane	2.15	94	220410	55.145	ug/l	98
6) Chloroethane	2.25	64	204264	55.826	ug/l	90
7) Trichlorofluoromethane	2.53	101	842594	54.804	ug/l	97
8) Diethyl Ether	2.87	74	111779	51.949	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.14	101	468066	54.960	ug/l	99
10) Methyl Iodide	3.30	142	653970	53.155	ug/l	96
11) Tert butyl alcohol	4.07	59	90419	230.358	ug/l #	86
12) 1,1-Dichloroethene	3.12	96	356975	57.096	ug/l	79
13) Acrolein	2.92	56	396	1.048	ug/l	83
14) Allyl chloride	3.61	41	557182	55.942	ug/l	93
15) Acrylonitrile	4.19	53	260276	255.767	ug/l	90
16) Acetone	3.22	43	474221	272.121	ug/l	97
17) Carbon Disulfide	3.37	76	941679	44.998	ug/l	96
18) Methyl Acetate	3.63	43	436473	130.392	ug/l	97
19) Methyl tert-butyl Ether	4.23	73	785389	55.611	ug/l	96
20) Methylene Chloride	3.81	84	399510	56.715	ug/l	96
21) trans-1,2-Dichloroethene	4.21	96	377065	53.749	ug/l	89
22) Diisopropyl ether	5.12	45	1132622	56.918	ug/l #	83
23) Vinyl Acetate	5.05	43	546855	44.707	ug/l	97
24) 1,1-Dichloroethane	4.98	63	722602	56.850	ug/l	97
25) 2-Butanone	6.07	43	440525	251.883	ug/l	93
26) 2,2-Dichloropropane	6.02	77	601760	45.940	ug/l	92
27) cis-1,2-Dichloroethene	6.04	96	393030	52.255	ug/l	98
28) Bromochloromethane	6.44	49	280567	55.401	ug/l #	97
29) Tetrahydrofuran	6.46	42	208012	251.213	ug/l	99
30) Chloroform	6.67	83	905081	57.378	ug/l	100
31) Cyclohexane	6.95	56	415134	52.106	ug/l	88
32) 1,1,1-Trichloroethane	6.87	97	886750	58.118	ug/l	95
36) 1,1-Dichloropropene	7.15	75	525080	48.265	ug/l	99
37) Ethyl Acetate	6.18	43	137782	28.190	ug/l #	95
38) Carbon Tetrachloride	7.11	117	915219	55.881	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	416676	45.970	ug/l	92
40) Benzene	7.45	78	1230508	53.968	ug/l	97
41) Methacrylonitrile	6.45	41	272292	46.574	ug/l #	92
42) 1,2-Dichloroethane	7.58	62	618359	51.173	ug/l	98
43) Isopropyl Acetate	9.24	43	148149	23.729	ug/l #	97
44) Trichloroethene	8.55	130	441814	47.820	ug/l	99
45) 1,2-Dichloropropane	8.94	63	279784	48.278	ug/l	93
46) Dibromomethane	9.07	93	242113	50.244	ug/l	86
47) Bromodichloromethane	9.37	83	646102	52.600	ug/l	95
48) Methyl methacrylate	9.12	41	236365	58.374	ug/l	93
49) 1,4-Dioxane	9.09	88	33129	965.690	ug/l #	82
51) 4-Methyl-2-Pentanone	10.31	43	997036	234.819	ug/l	100
52) Toluene	10.51	92	759881	50.109	ug/l	93
53) t-1,3-Dichloropropene	10.92	75	459199	43.362	ug/l	91
54) cis-1,3-Dichloropropene	10.04	75	534056	47.984	ug/l	98
55) 1,1,2-Trichloroethane	11.19	97	261277	51.015	ug/l	97
56) Ethyl methacrylate	11.05	69	167796	29.919	ug/l	93
57) 1,3-Dichloropropane	11.41	76	411699	51.019	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.85	63	663132	227.237	ug/l	97
59) 2-Hexanone	11.54	43	683077	223.241	ug/l	100
60) Dibromochloromethane	11.69	129	488985	50.574	ug/l	99
61) 1,2-Dibromoethane	11.81	107	309578	48.986	ug/l	96
64) Tetrachloroethene	11.26	164	528450	68.998	ug/l	96
65) Chlorobenzene	12.40	112	900387	48.692	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.51	131	431433	52.967	ug/l	99
67) Ethyl Benzene	12.53	91	1543673	49.141	ug/l	98
68) m/p-Xylenes	12.67	106	1085098	94.192	ug/l	96
69) o-Xylene	13.05	106	540626	51.104	ug/l	92
70) Styrene	13.07	104	875089	46.644	ug/l	99
71) Bromoform	13.24	173	296163	49.999	ug/l	98
73) Isopropylbenzene	13.41	105	1684370	65.622	ug/l	99
74) N-amyl acetate	13.27	43	170543	25.133	ug/l #	94
75) 1,1,2,2-Tetrachloroethane	13.70	83	277719	63.696	ug/l	90
76) 1,2,3-Trichloropropane	13.73	75	270720	55.112	ug/l	95
77) Bromobenzene	13.67	156	427168	58.420	ug/l	91
78) n-propylbenzene	13.77	91	1736458	56.848	ug/l	96
79) 2-Chlorotoluene	13.84	91	1061919	59.999	ug/l	95
80) 1,3,5-Trimethylbenzene	13.94	105	1295724	58.528	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.48	75	64952	47.618	ug/l	98
82) 4-Chlorotoluene	13.95	91	1128768	54.191	ug/l	96
83) tert-Butylbenzene	14.20	119	1299083	51.392	ug/l	95
84) 1,2,4-Trimethylbenzene	14.24	105	1056844	46.153	ug/l	96
85) sec-Butylbenzene	14.37	105	1480080	55.574	ug/l	97
86) p-Isopropyltoluene	14.49	119	1265466	49.784	ug/l	97
87) 1,3-Dichlorobenzene	14.46	146	677055	52.286	ug/l	96
88) 1,4-Dichlorobenzene	14.54	146	610396	46.616	ug/l	96
89) n-Butylbenzene	14.80	91	997683	45.444	ug/l	95
90) Hexachloroethane	15.01	117	372668	56.272	ug/l	87
91) 1,2-Dichlorobenzene	14.82	146	553279	49.040	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.39	75	46490	52.347	ug/l	62

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Quant Title : SW846 8260
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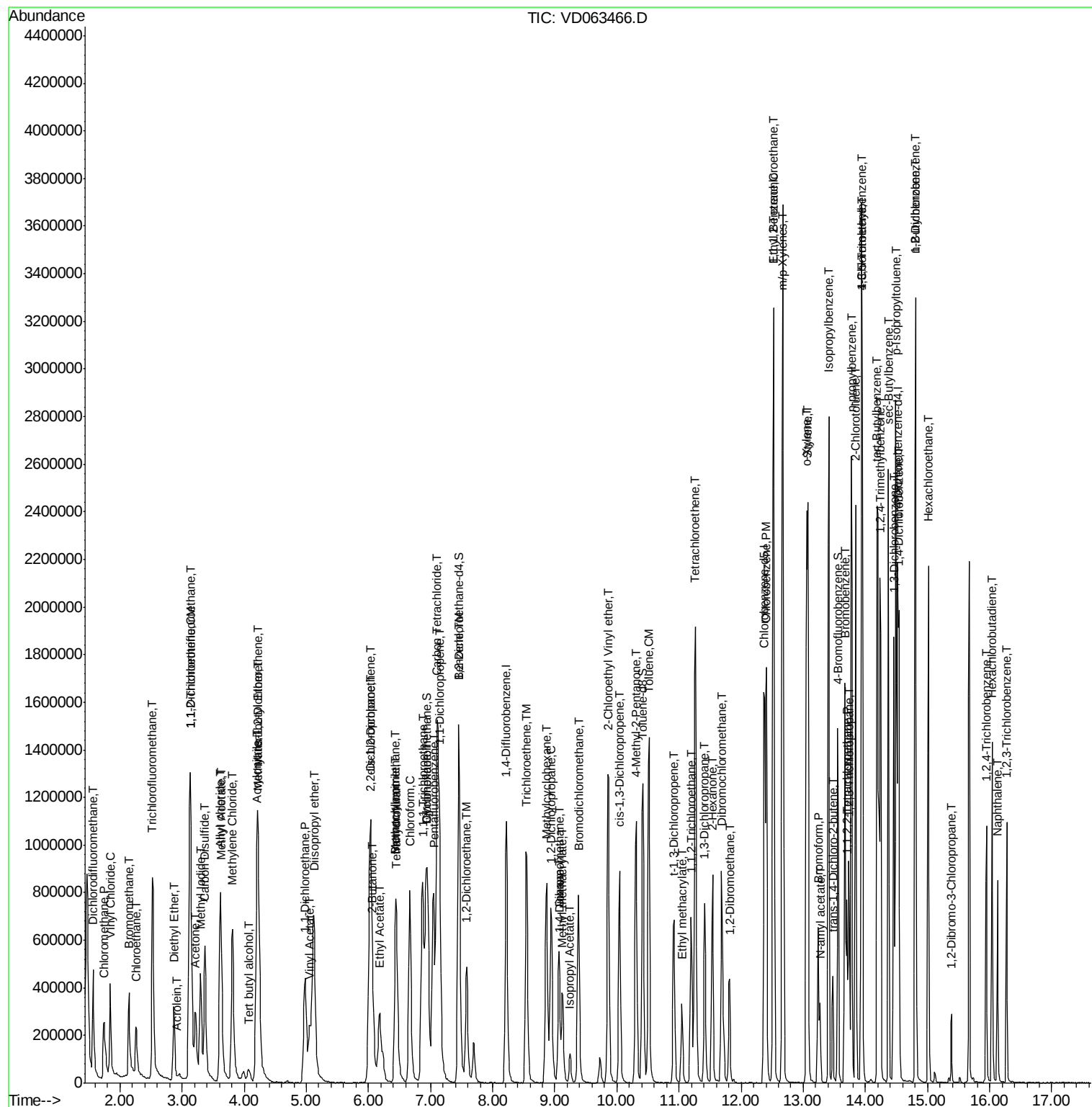
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	291504	32.569	ug/l	99
94) Hexachlorobutadiene	16.04	225	231534	35.697	ug/l	96
95) Naphthalene	16.13	128	475236	37.567	ug/l	100
96) 1,2,3-Trichlorobenzene	16.27	180	259313	36.675	ug/l	99

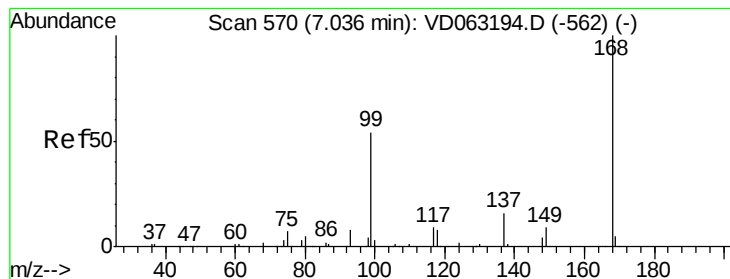
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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

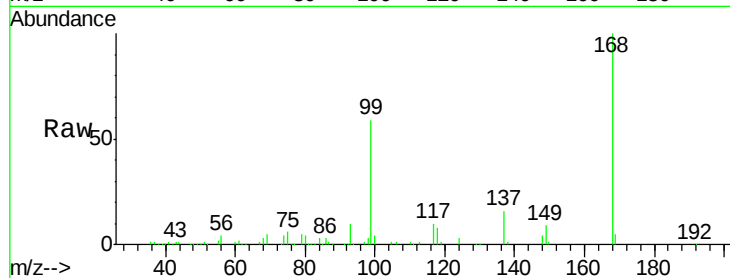
SB-05(13-14)MSD

Tot Ion:168 Resp: 806079

Ion Ratio Lower Upper

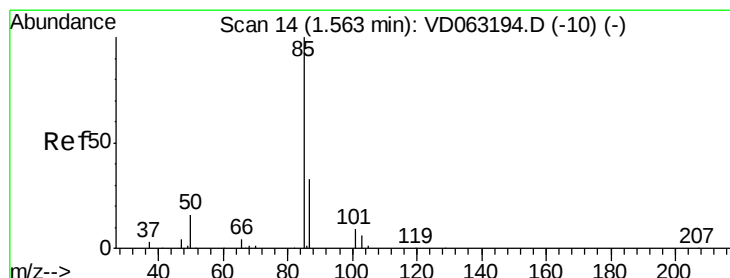
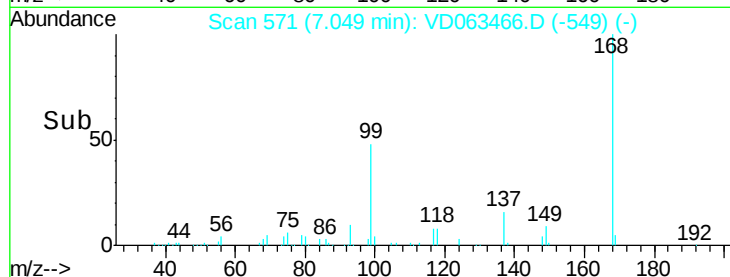
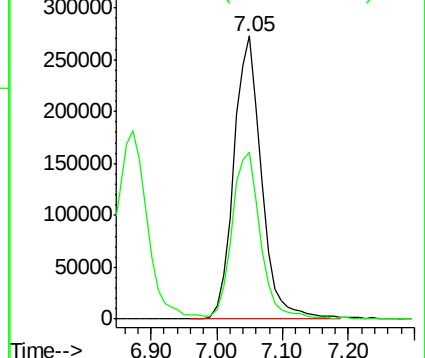
168 100

99 58.8 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 43.531 ug/l

RT: 1.57 min Scan# 14

Delta R.T. 0.00 min

Lab File: VD063466.D

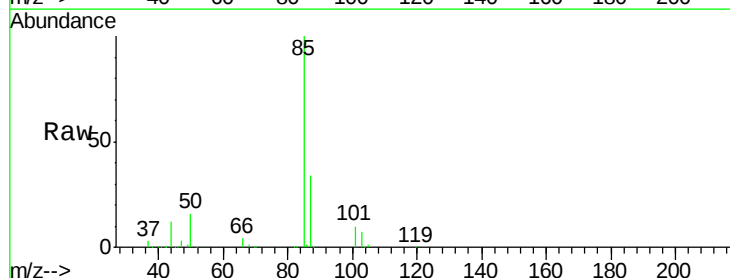
Acq: 9 Aug 2019 5:42

Tgt Ion: 85 Resp: 428926

Ion Ratio Lower Upper

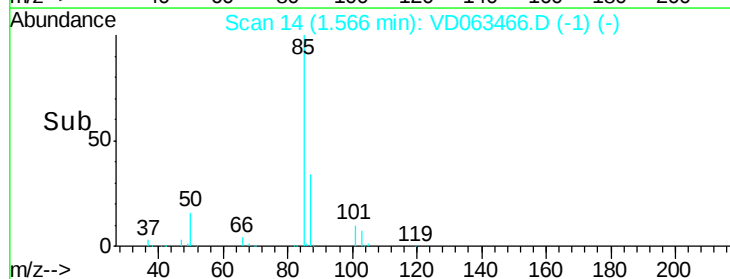
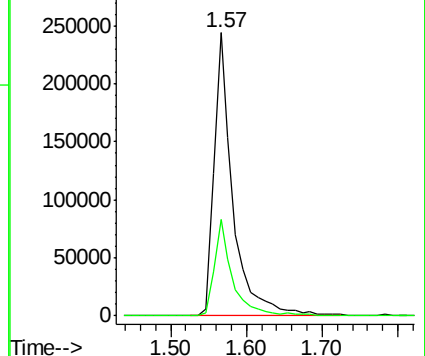
85 100

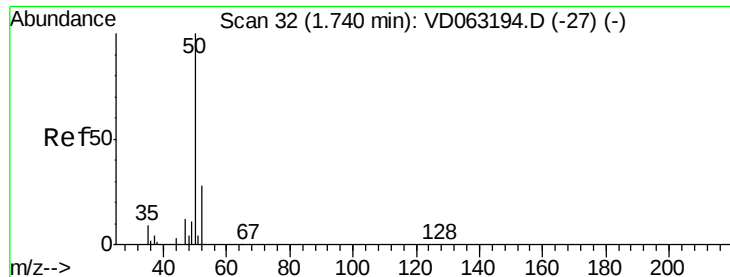
87 34.1 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 50.020 ug/l

RT: 1.73 min Scan# 31

Delta R.T. -0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

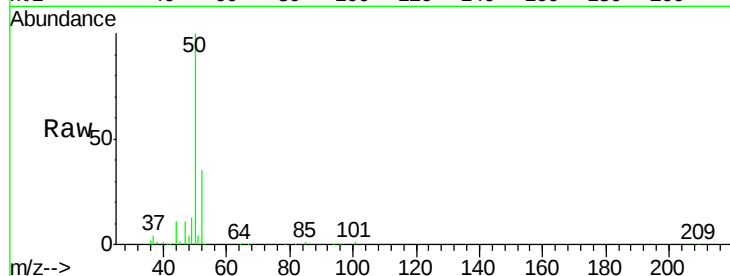
SB-05(13-14)MSD

Tot Ion: 50 Resp: 382924

Ion Ratio Lower Upper

50 100

52 35.2 22.6 34.0#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.73

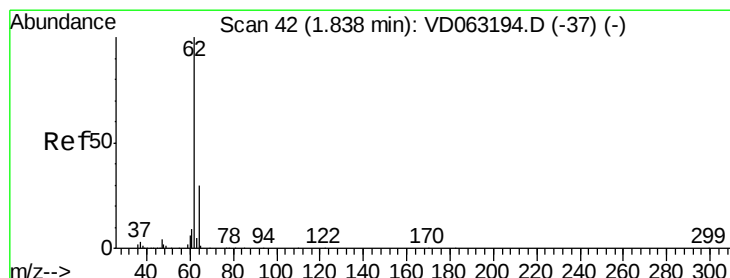
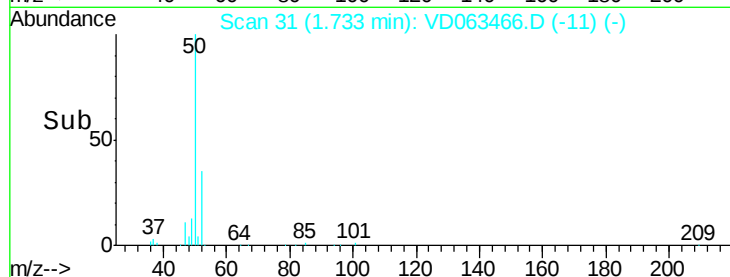
150000

100000

50000

0

Time--> 1.60 1.70 1.80 1.90



#4

Vinyl Chloride

Concen: 49.878 ug/l

RT: 1.84 min Scan# 42

Delta R.T. 0.00 min

Lab File: VD063466.D

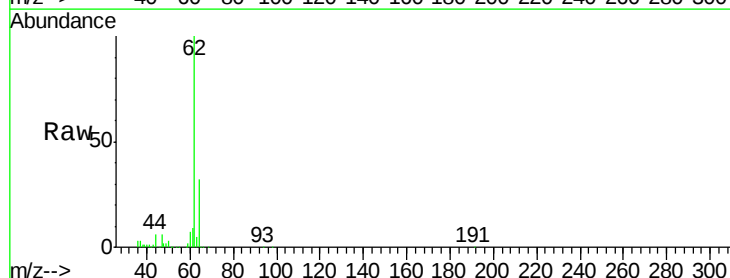
Acq: 9 Aug 2019 5:42

Tgt Ion: 62 Resp: 395285

Ion Ratio Lower Upper

62 100

64 32.0 24.1 36.1



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.84

250000

200000

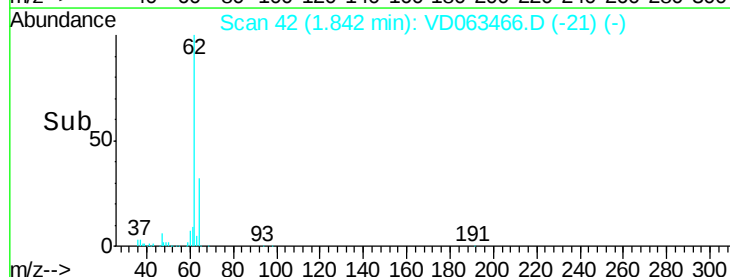
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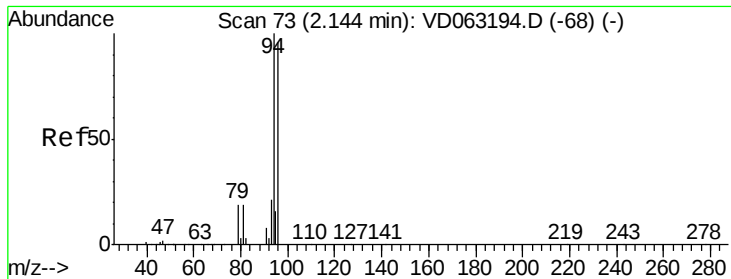
100000

50000

0

Time--> 1.70 1.80 1.90 2.00





#5

Bromomethane

Concen: 55.145 ug/l

RT: 2.15 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

SB-05(13-14)MSD

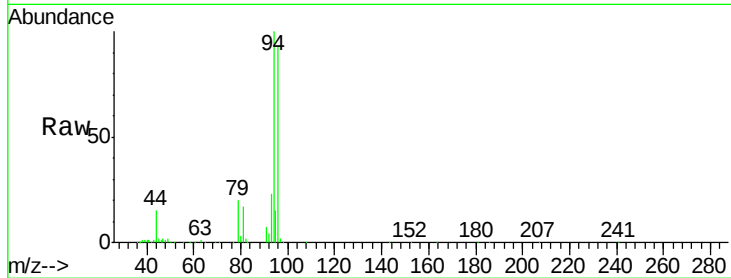
Tot Ion: 94 Resp: 220410

Ion Ratio Lower Upper

94 100

96 93.2 76.4 114.6

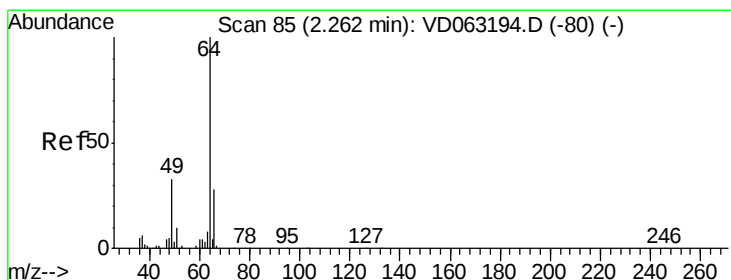
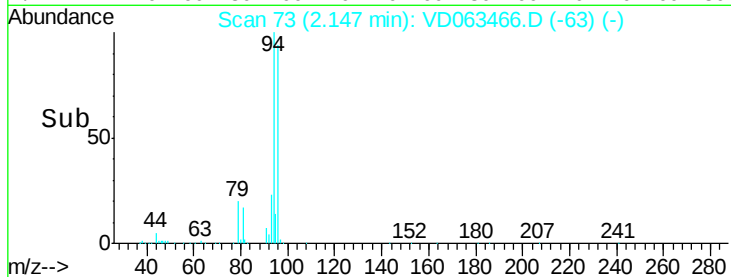
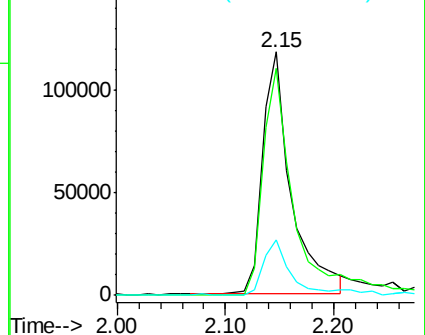
93 22.8 17.3 25.9



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 55.826 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.01 min

Lab File: VD063466.D

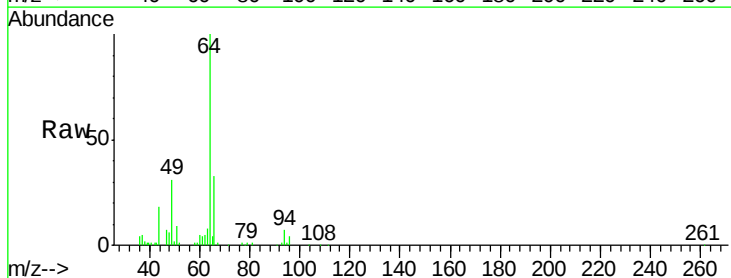
Acq: 9 Aug 2019 5:42

Tgt Ion: 64 Resp: 204264

Ion Ratio Lower Upper

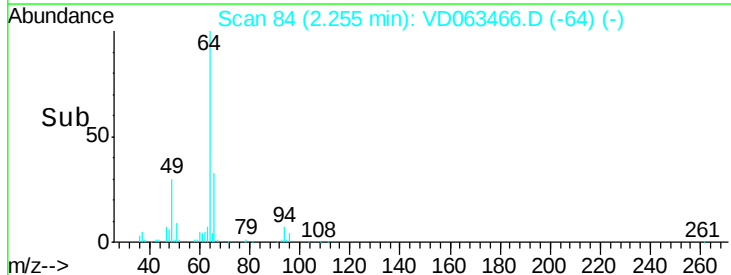
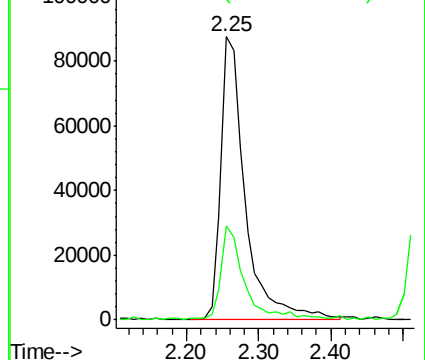
64 100

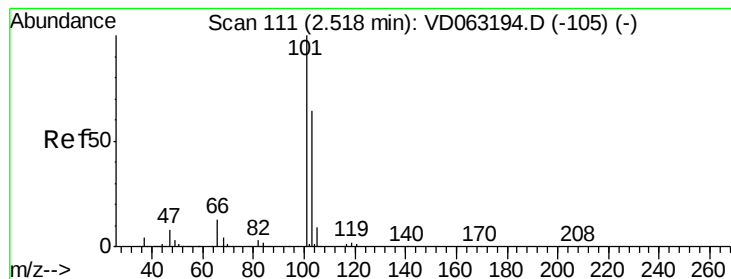
66 33.0 22.2 33.2



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



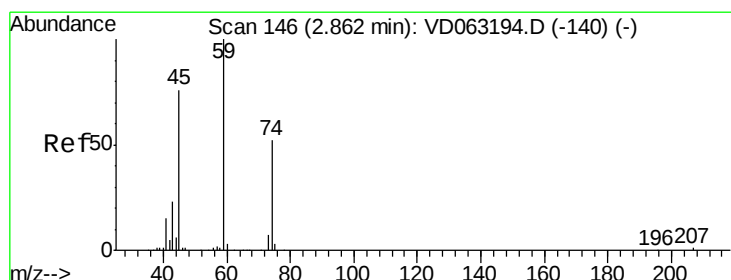
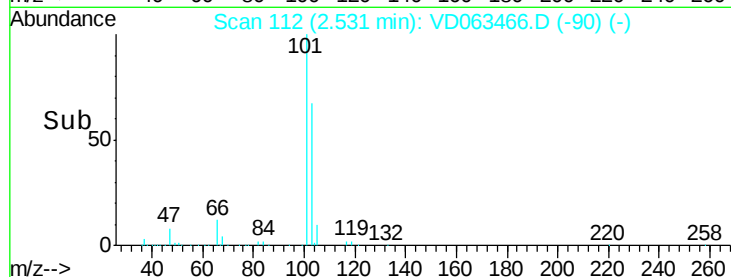
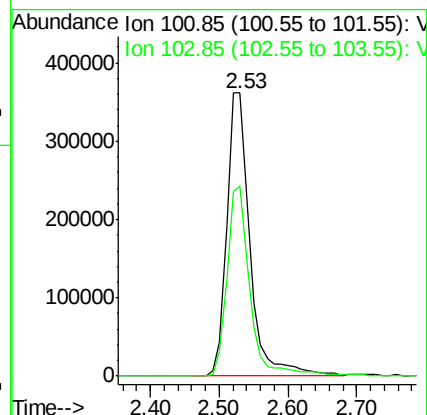
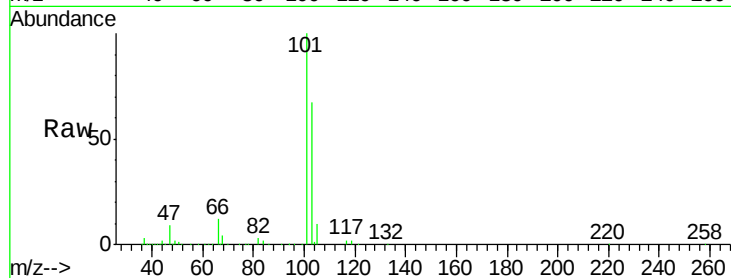


#7

Trichlorofluoromethane
 Concen: 54.804 ug/l
 RT: 2.53 min Scan# 112
 Delta R.T. 0.01 min
 Lab File: VD063466.D
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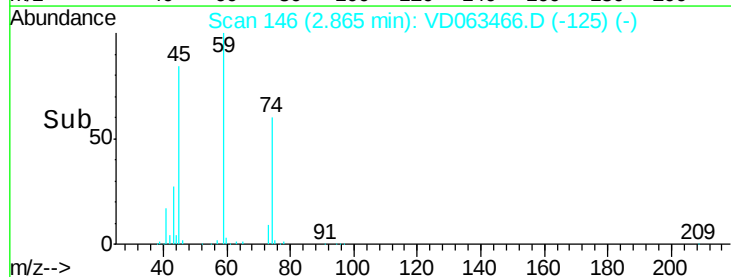
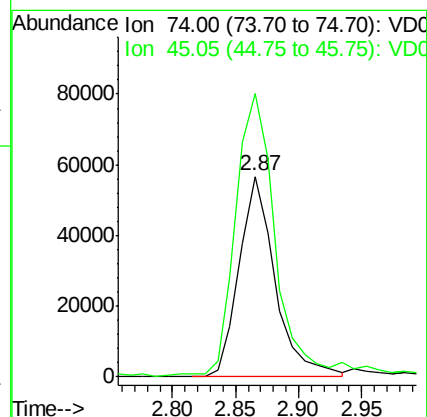
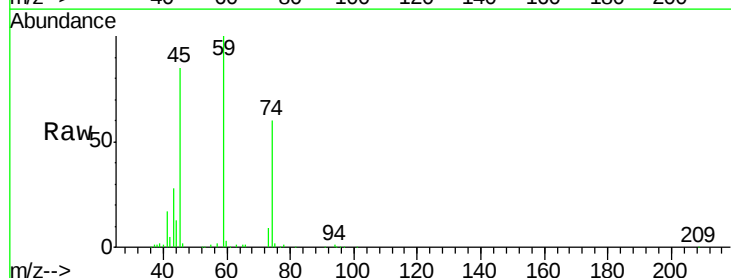
Tot Ion:101 Resp: 842594
 Ion Ratio Lower Upper
 101 100
 103 66.9 51.5 77.3

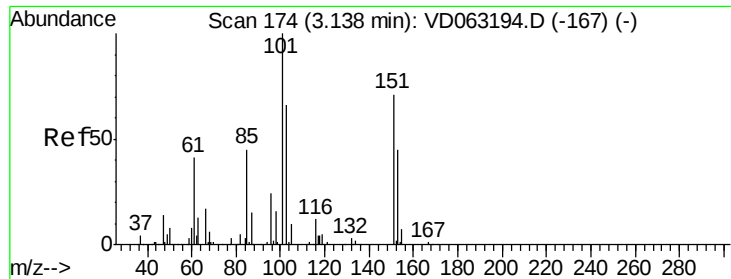


#8

Diethyl Ether
 Concen: 51.949 ug/l
 RT: 2.87 min Scan# 146
 Delta R.T. 0.00 min
 Lab File: VD063466.D
 Acq: 9 Aug 2019 5:42

Tgt Ion: 74 Resp: 111779
 Ion Ratio Lower Upper
 74 100
 45 141.2 73.6 220.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 54.960 ug/l

RT: 3.14 min Scan# 174

Delta R.T. 0.00 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

SB-05(13-14)MSD

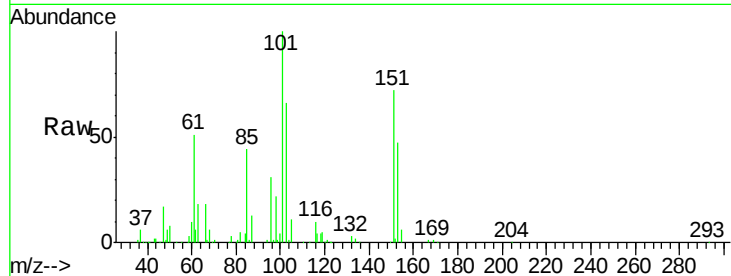
Tot Ion:101 Resp: 468066

Ion Ratio Lower Upper

101 100

85 44.3 36.1 54.1

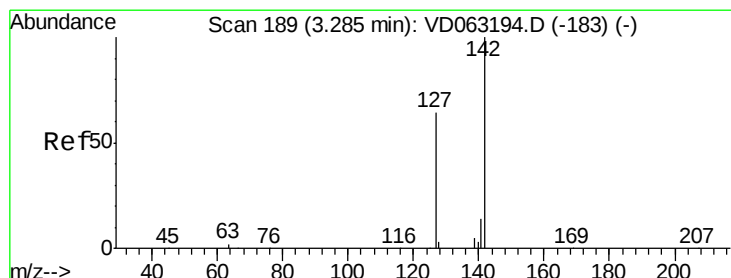
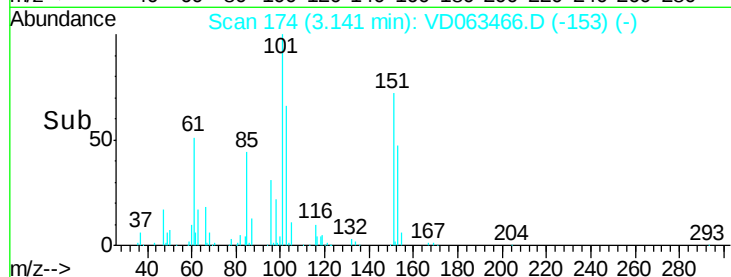
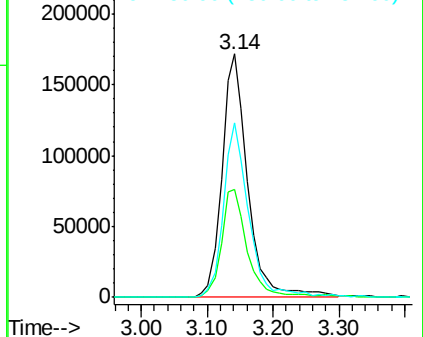
151 71.8 57.1 85.7



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: 53.155 ug/l

RT: 3.30 min Scan# 190

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

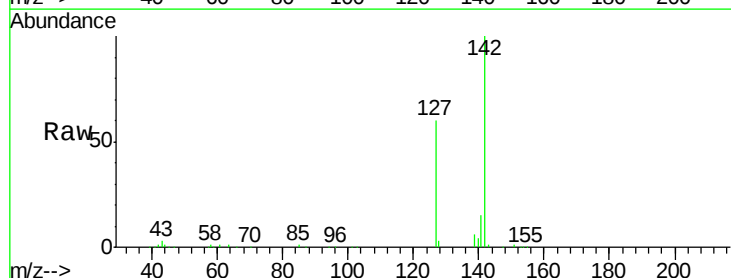
Tgt Ion:142 Resp: 653970

Ion Ratio Lower Upper

142 100

127 60.4 50.8 76.2

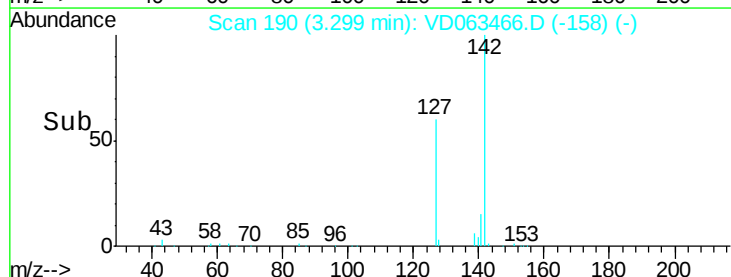
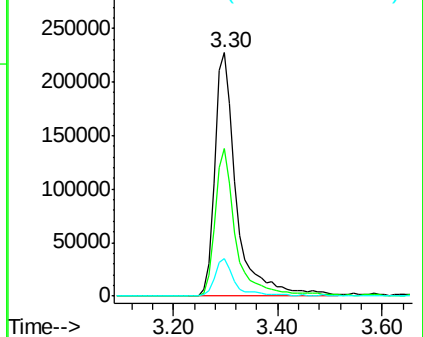
141 15.5 11.4 17.2

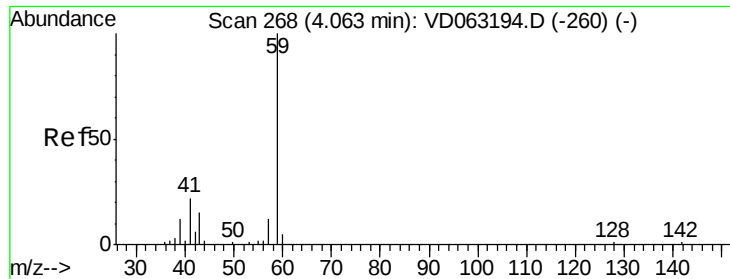


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

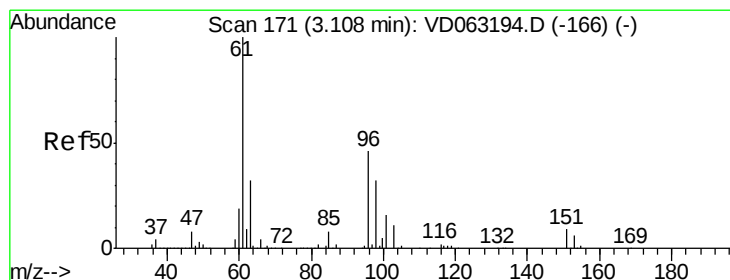
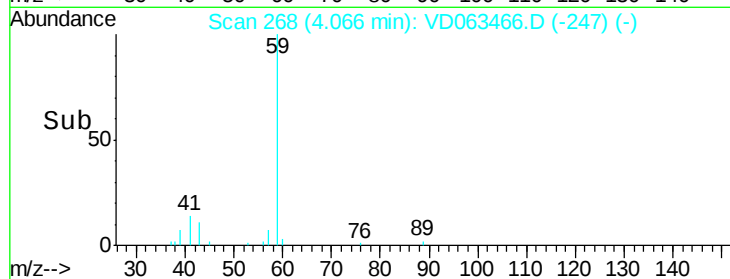
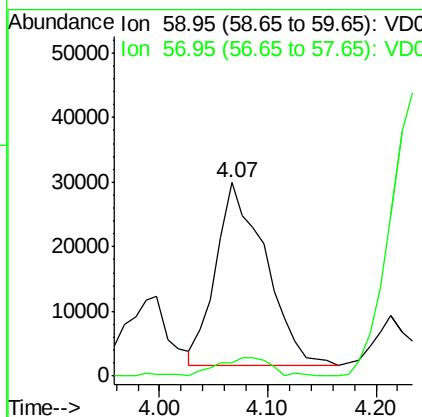
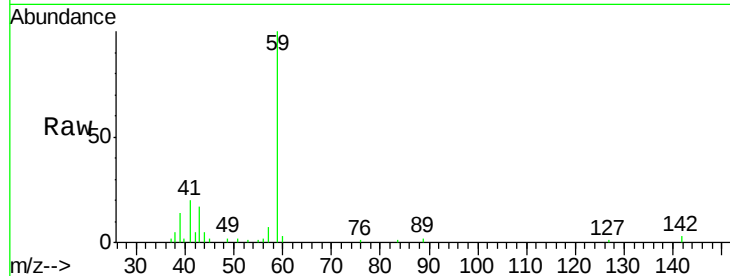




#11
Tert butyl alcohol
Concen: 230.358 ug/l
RT: 4.07 min Scan# 268
Delta R.T. 0.00 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

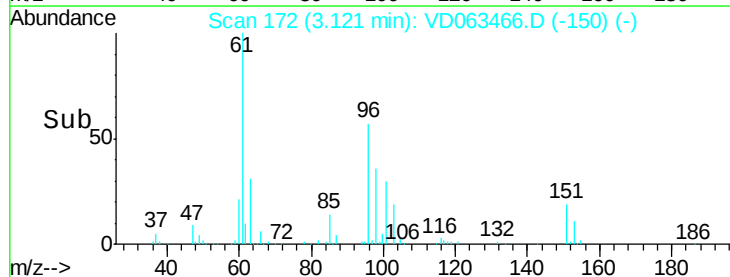
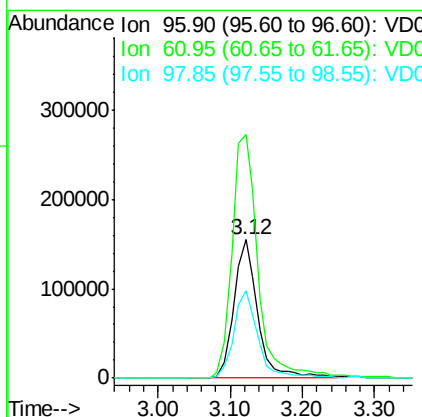
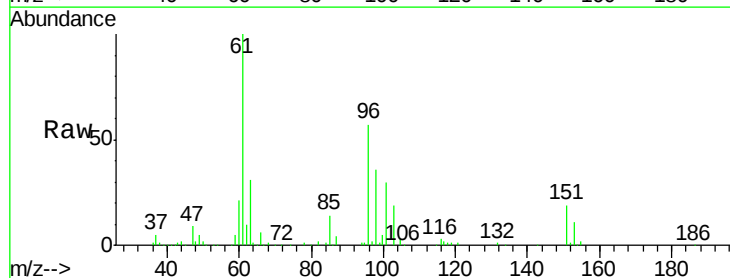
Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

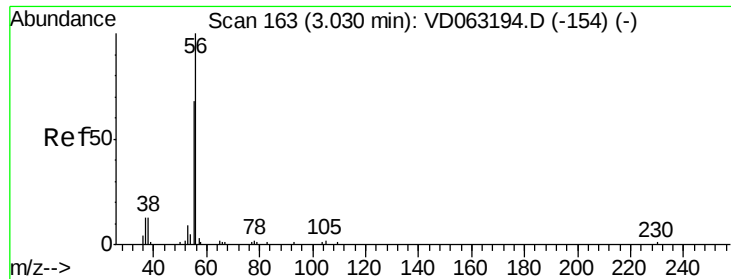
Tot Ion: 59 Resp: 90419
Ion Ratio Lower Upper
59 100
57 6.7 9.6 14.4#



#12
1,1-Dichloroethene
Concen: 57.096 ug/l
RT: 3.12 min Scan# 172
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion: 96 Resp: 356975
Ion Ratio Lower Upper
96 100
61 176.0 173.7 260.5
98 63.4 55.8 83.8

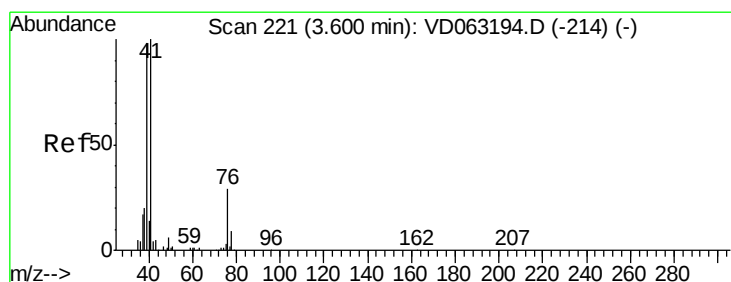
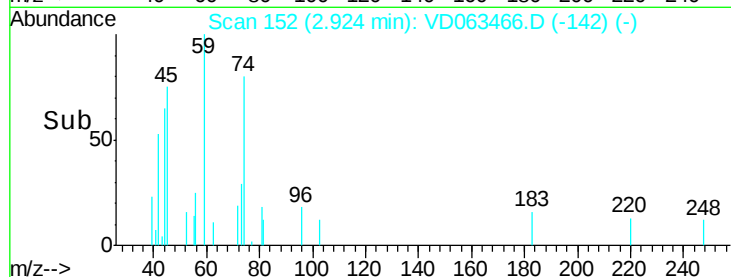
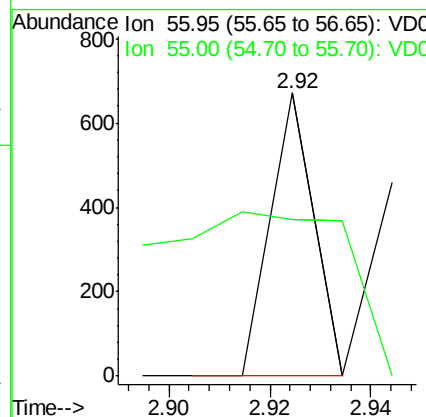
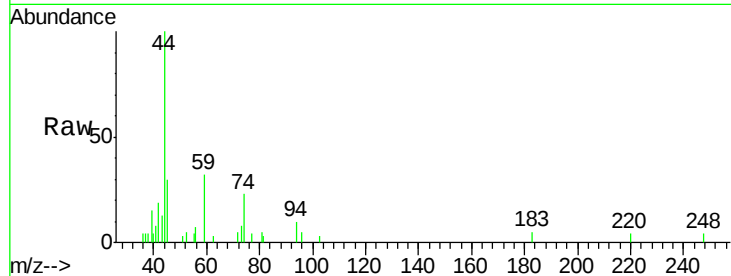




#13
Acrolein
Concen: 1.048 ug/l
RT: 2.92 min Scan# 152
Delta R.T. -0.11 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

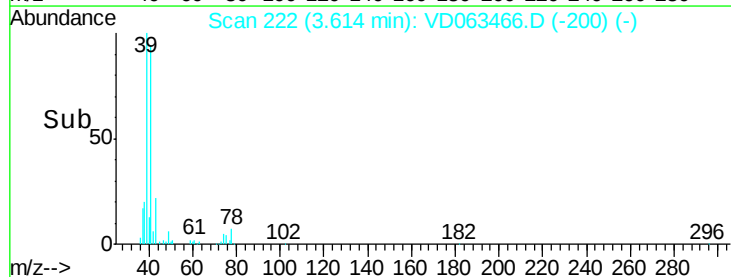
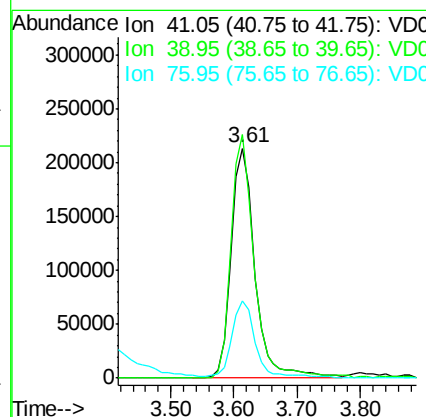
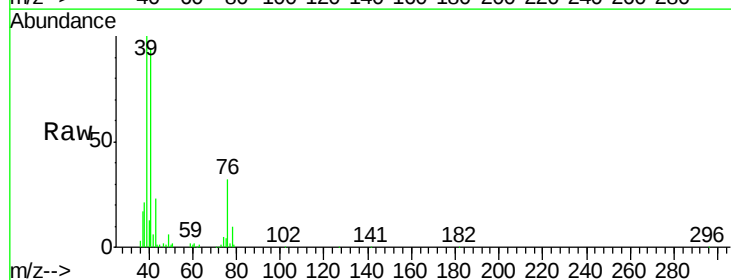
Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

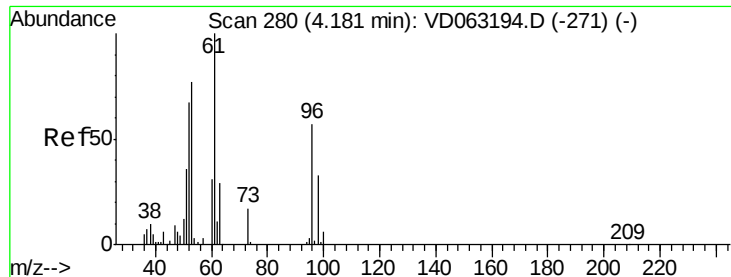
Tot Ion: 56 Resp: 396
Ion Ratio Lower Upper
56 100
55 55.3 55.3 82.9



#14
Allyl chloride
Concen: 55.942 ug/l
RT: 3.61 min Scan# 222
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion: 41 Resp: 557182
Ion Ratio Lower Upper
41 100
39 106.0 78.6 117.8
76 33.4 24.5 36.7





#15

Acrylonitrile

Concen: 255.767 ug/l

RT: 4.19 min Scan# 281

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

SB-05(13-14)MSD

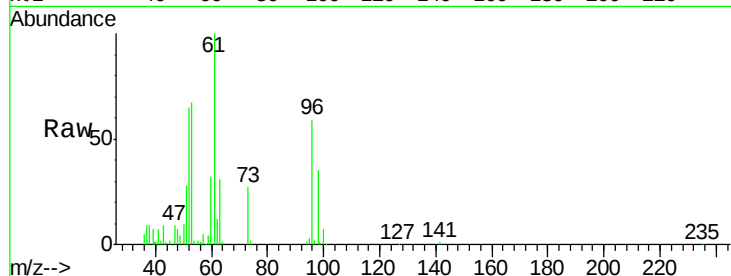
Tot Ion: 53 Resp: 260276

Ion Ratio Lower Upper

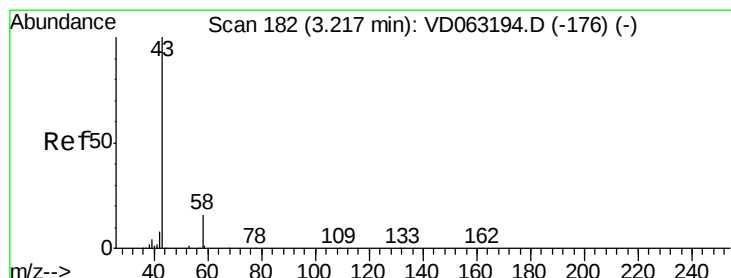
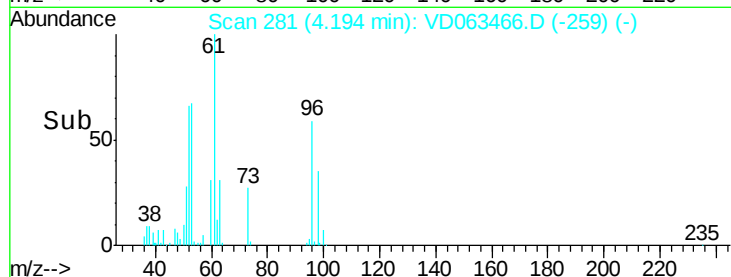
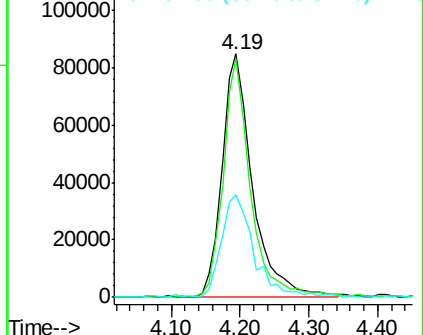
53 100

52 97.9 69.7 104.5

51 42.3 37.4 56.0



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: 272.121 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063466.D

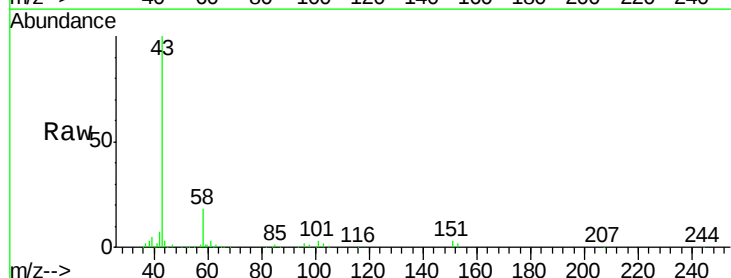
Acq: 9 Aug 2019 5:42

Tgt Ion: 43 Resp: 474221

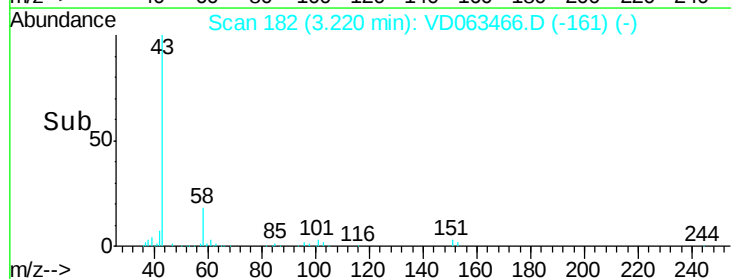
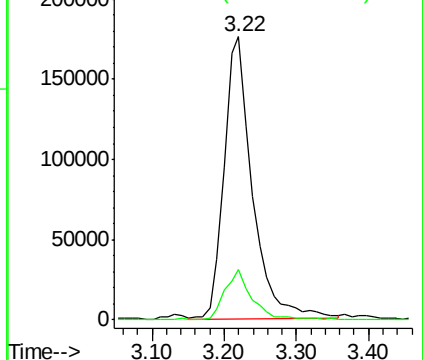
Ion Ratio Lower Upper

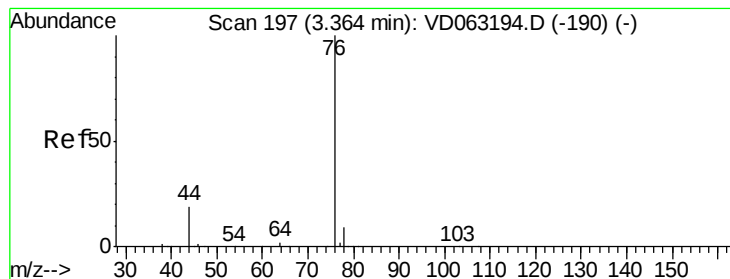
43 100

58 17.7 13.0 19.4



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





#17

Carbon Disulfide

Concen: 44.998 ug/l

RT: 3.37 min Scan# 197

Delta R.T. 0.00 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

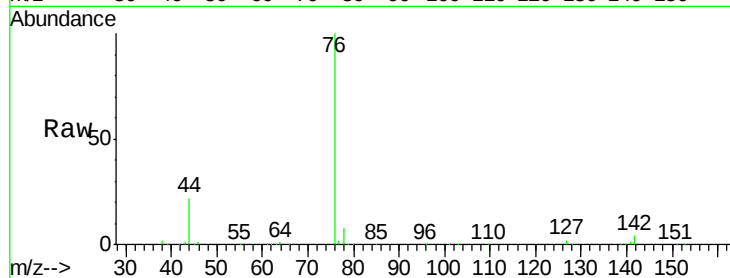
SB-05(13-14)MSD

Tot Ion: 76 Resp: 941679

Ion Ratio Lower Upper

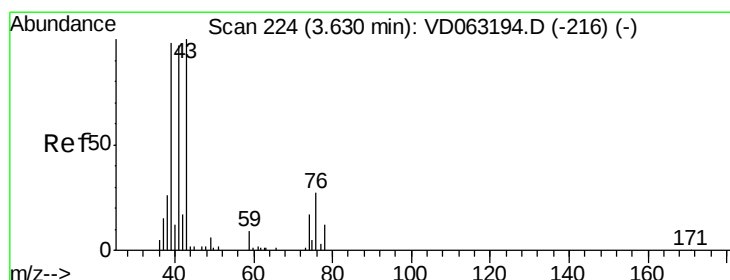
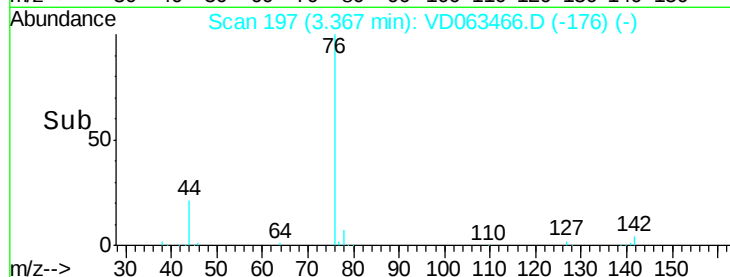
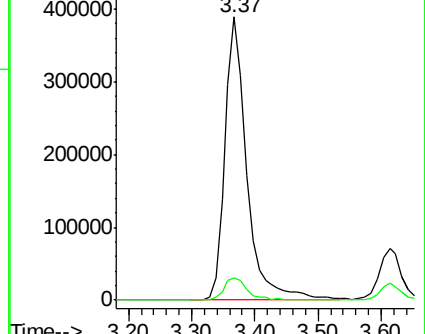
76 100

78 7.9 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 130.392 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.00 min

Lab File: VD063466.D

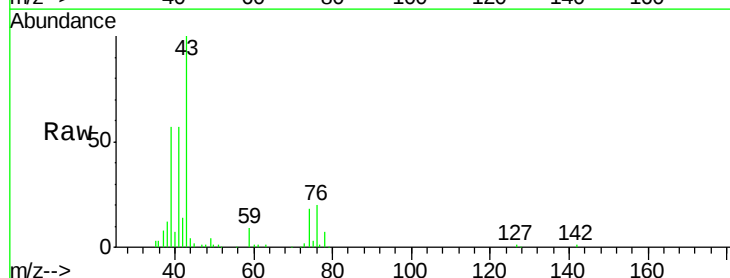
Acq: 9 Aug 2019 5:42

Tgt Ion: 43 Resp: 436473

Ion Ratio Lower Upper

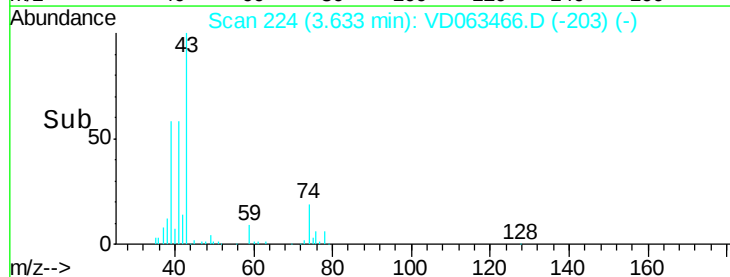
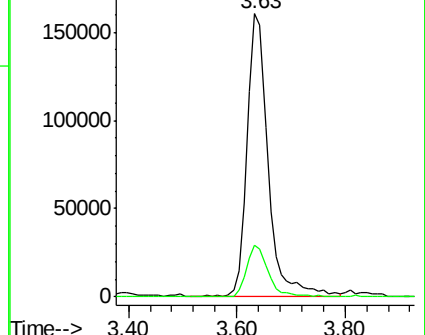
43 100

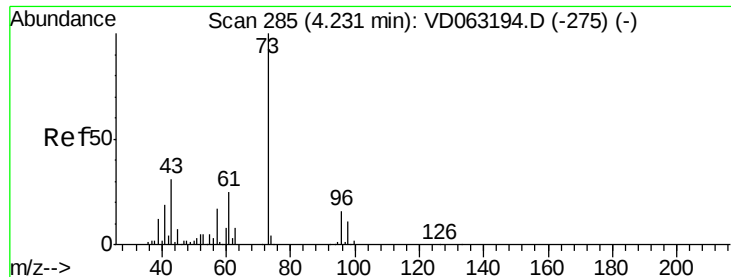
74 18.5 13.8 20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

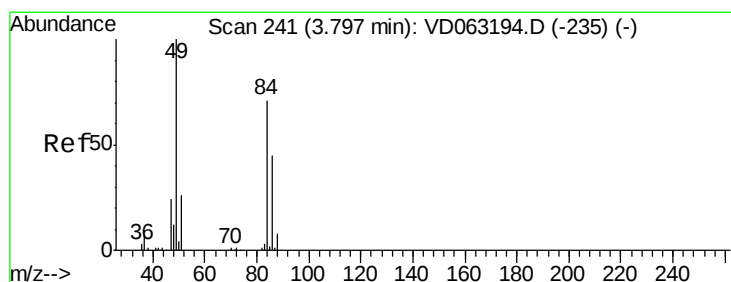
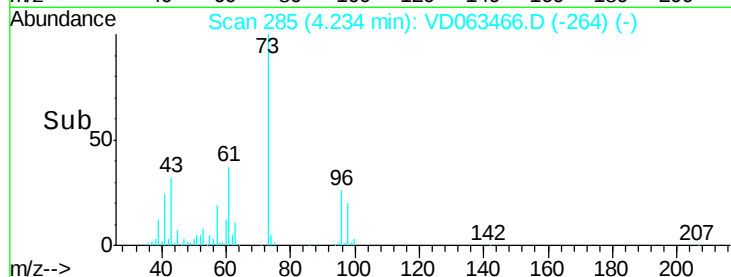
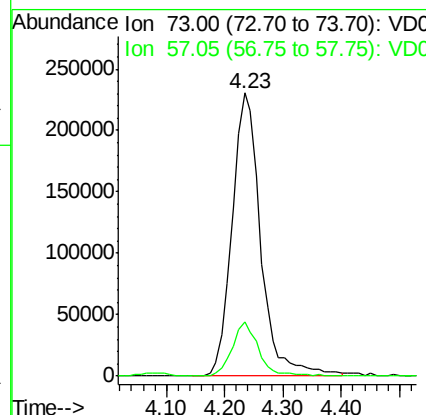
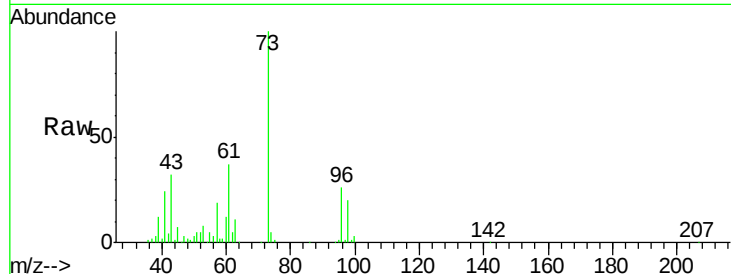




#19
Methvl tert-butvl Ether
Concen: 55.611 ug/l
RT: 4.23 min Scan# 285
Delta R.T. 0.00 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

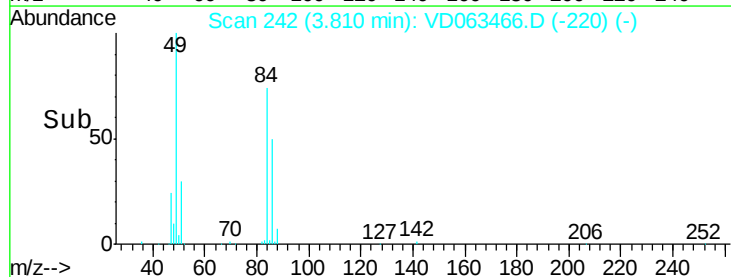
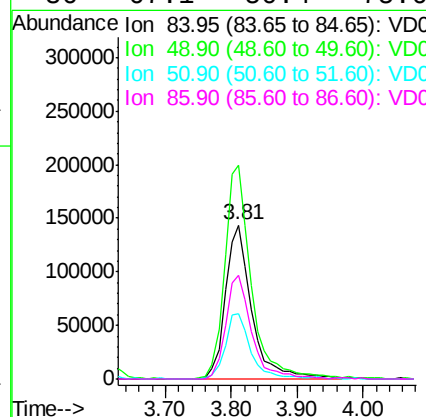
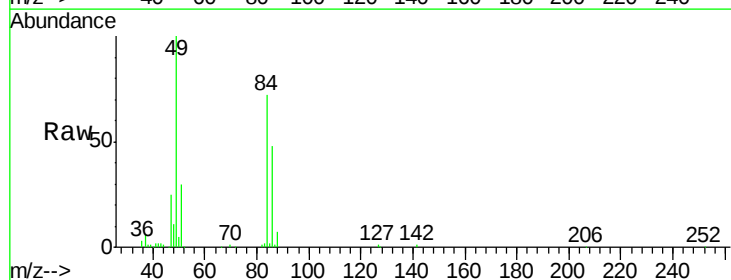
Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

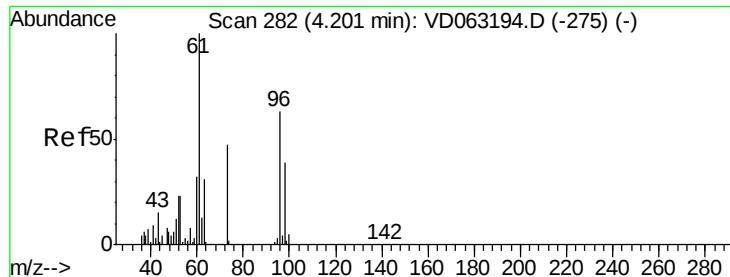
Tot Ion: 73 Resp: 785389
Ion Ratio Lower Upper
73 100
57 19.0 13.8 20.6



#20
Methylene Chloride
Concen: 56.715 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion: 84 Resp: 399510
Ion Ratio Lower Upper
84 100
49 138.7 112.5 168.7
51 42.1 29.6 44.4
86 67.1 50.4 75.6





#21

trans-1,2-Dichloroethene

Concen: 53.749 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

SB-05(13-14)MSD

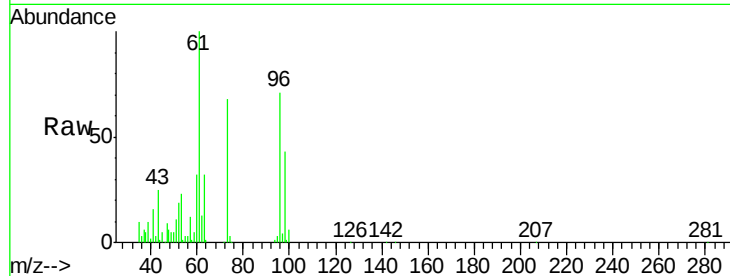
Tot Ion: 96 Resp: 377065

Ion Ratio Lower Upper

96 100

61 140.3 127.4 191.2

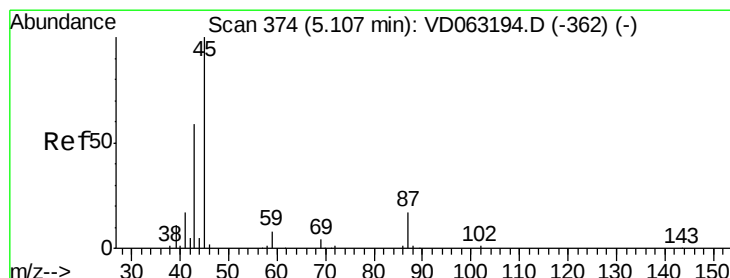
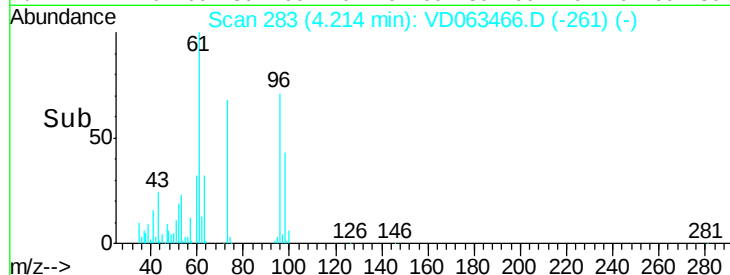
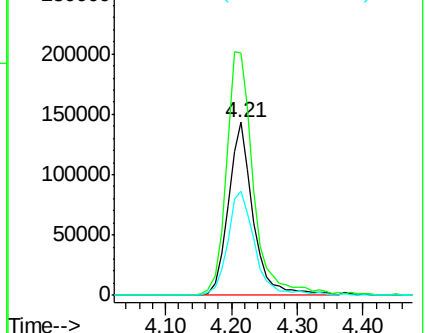
98 60.1 49.3 73.9



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: 56.918 ug/l

RT: 5.12 min Scan# 375

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Tgt Ion: 45 Resp: 1132622

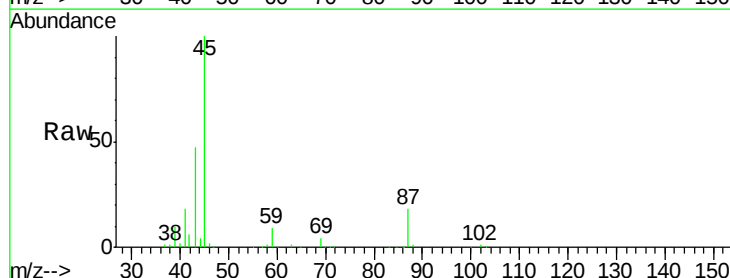
Ion Ratio Lower Upper

45 100

43 46.9 51.7 77.5#

87 17.5 14.6 21.8

59 9.5 6.6 10.0

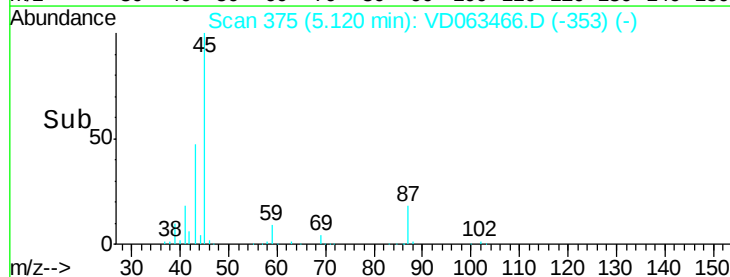
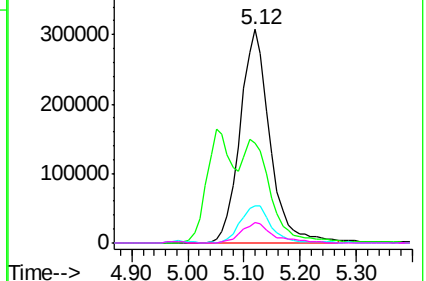


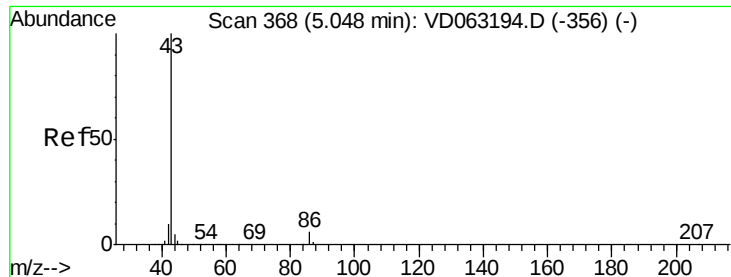
Abundance Ion 45.05 (44.75 to 45.75): VDC

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





#23

Vinyl Acetate

Concen: 44.707 ug/l

RT: 5.05 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

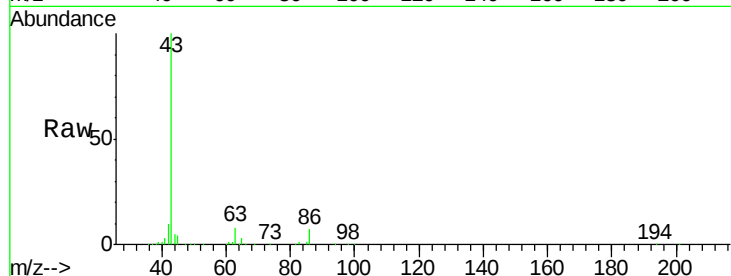
SB-05(13-14)MSD

Tot Ion: 43 Resp: 546855

Ion Ratio Lower Upper

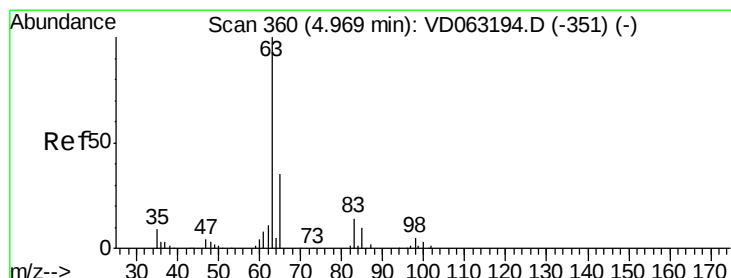
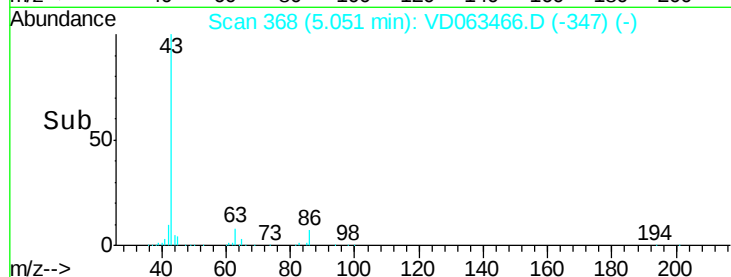
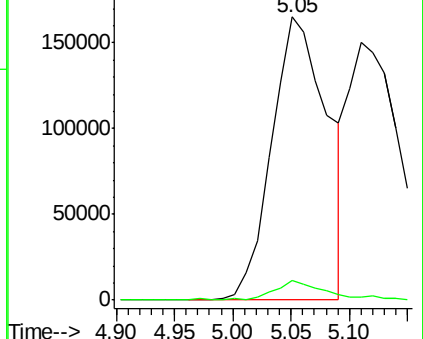
43 100

86 7.0 4.9 7.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 56.850 ug/l

RT: 4.98 min Scan# 361

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

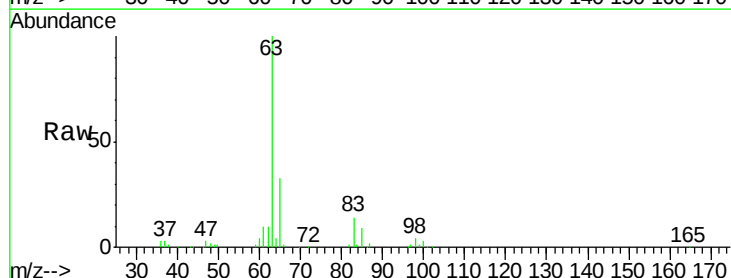
Tgt Ion: 63 Resp: 722602

Ion Ratio Lower Upper

63 100

98 4.2 2.8 8.4

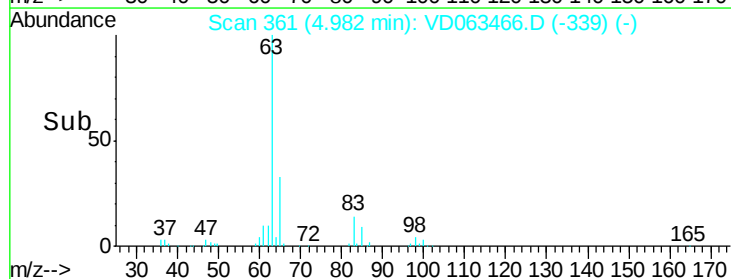
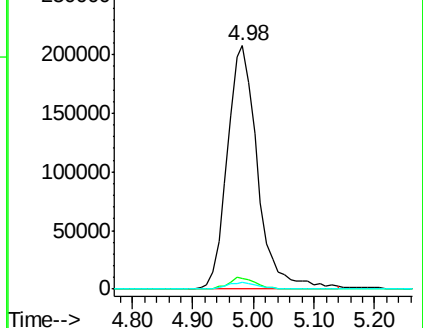
100 2.9 1.3 3.9

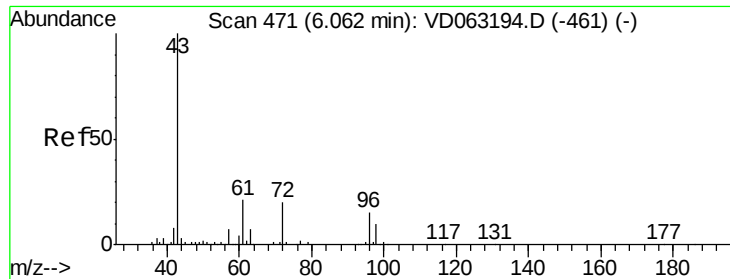


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 251.883 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

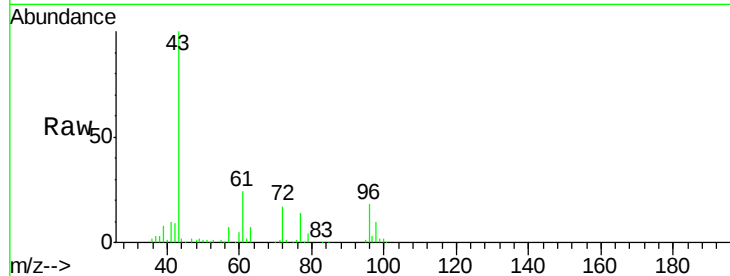
SB-05(13-14)MSD

Tot Ion: 43 Resp: 440525

Ion Ratio Lower Upper

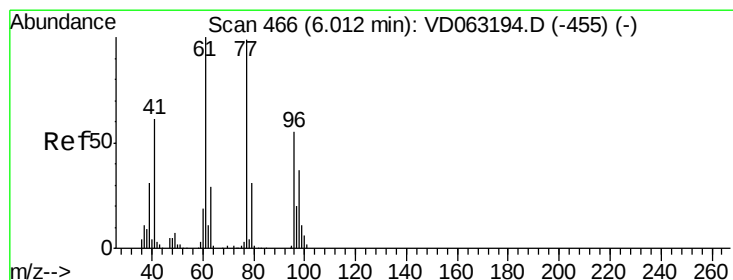
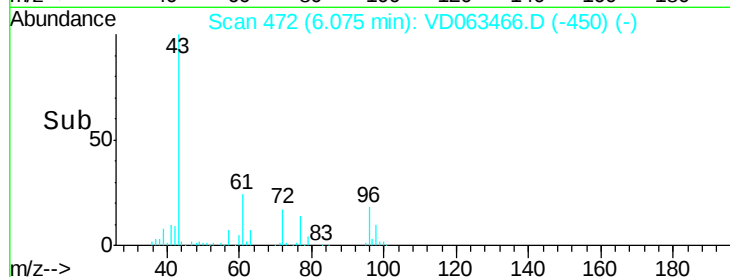
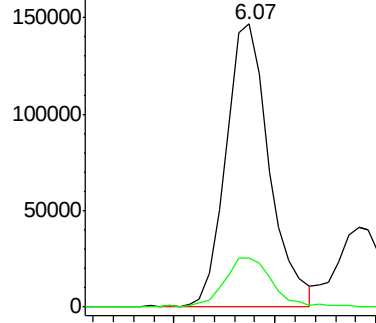
43 100

72 17.3 16.3 24.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 45.940 ug/l

RT: 6.02 min Scan# 466

Delta R.T. 0.00 min

Lab File: VD063466.D

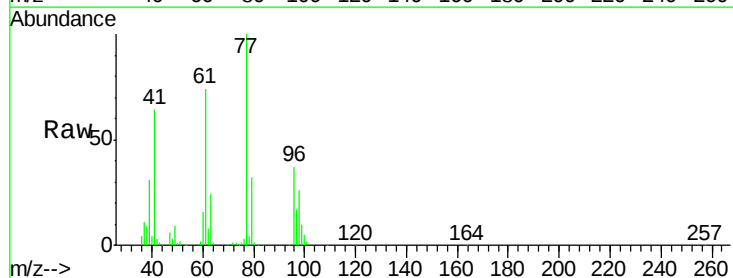
Acq: 9 Aug 2019 5:42

Tgt Ion: 77 Resp: 601760

Ion Ratio Lower Upper

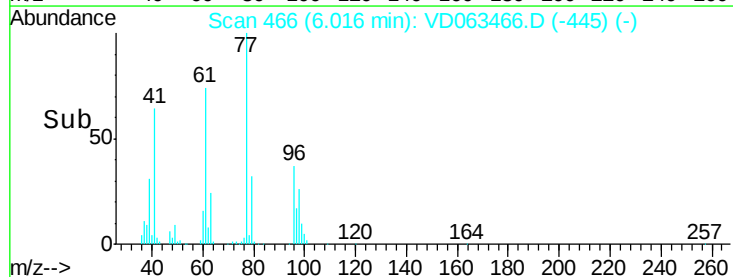
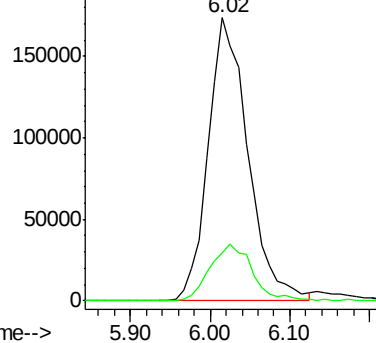
77 100

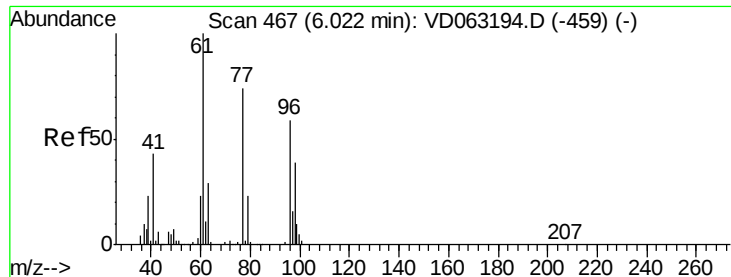
97 16.7 10.2 30.6



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

cis-1,2-Dichloroethene

Concen: 52.255 ug/l

RT: 6.04 min Scan# 468

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

SB-05(13-14)MSD

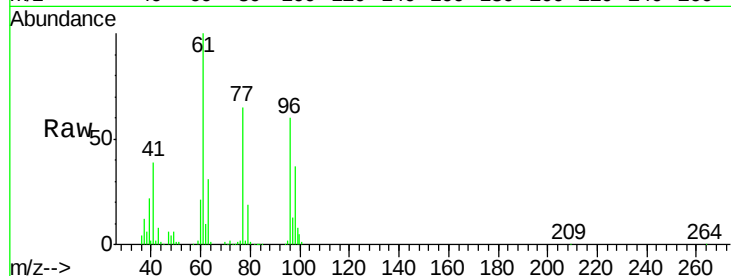
Tot Ion: 96 Resp: 393030

Ion Ratio Lower Upper

96 100

61 166.3 0.0 337.2

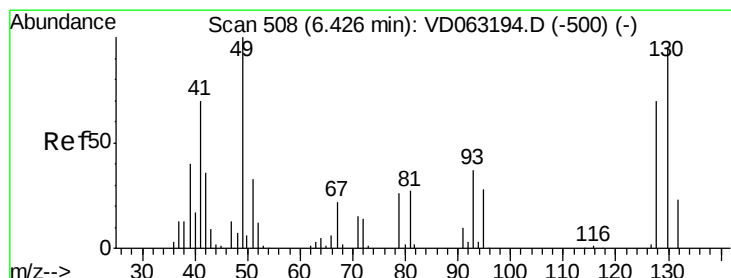
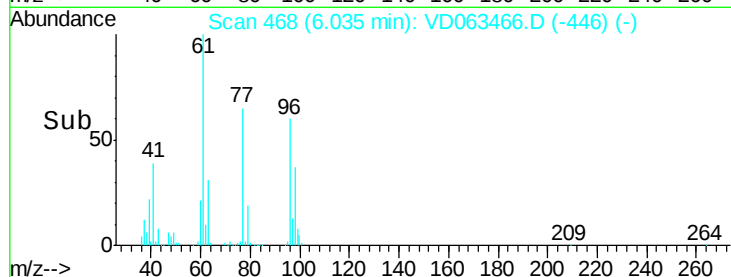
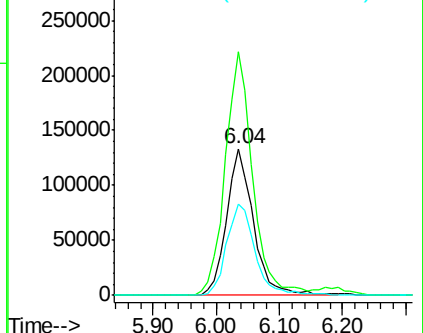
98 62.3 0.0 130.6



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



#28

Bromochloromethane

Concen: 55.401 ug/l

RT: 6.44 min Scan# 509

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

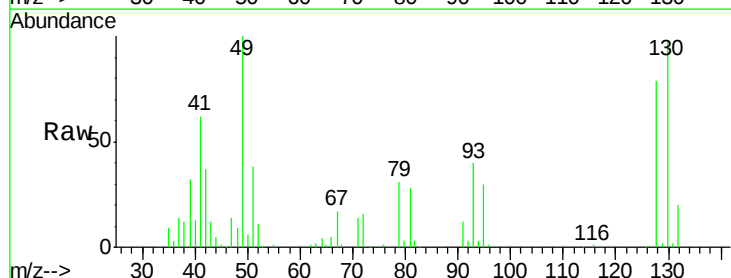
Tgt Ion: 49 Resp: 280567

Ion Ratio Lower Upper

49 100

129 2.3 0.0 0.0#

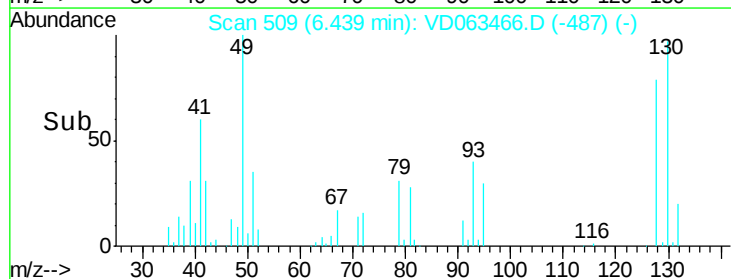
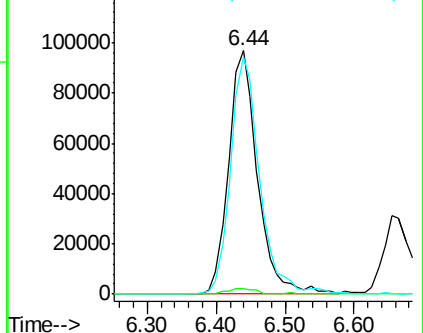
130 97.3 75.7 113.5

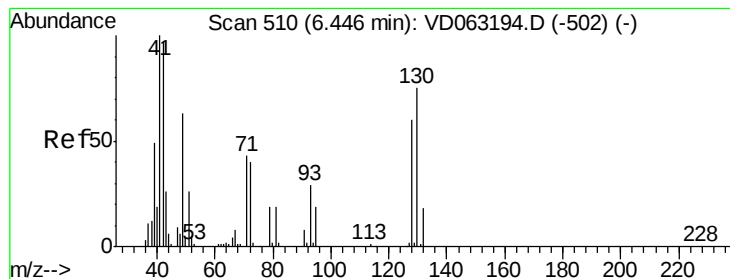


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 251.213 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

SB-05(13-14)MSD

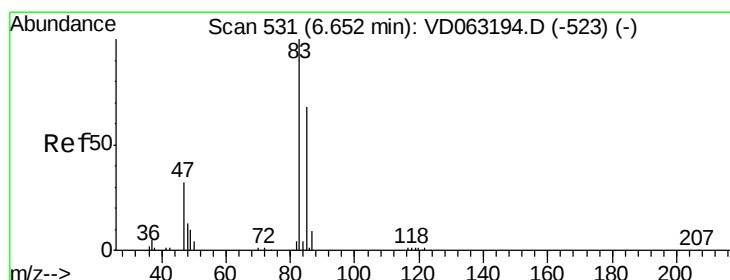
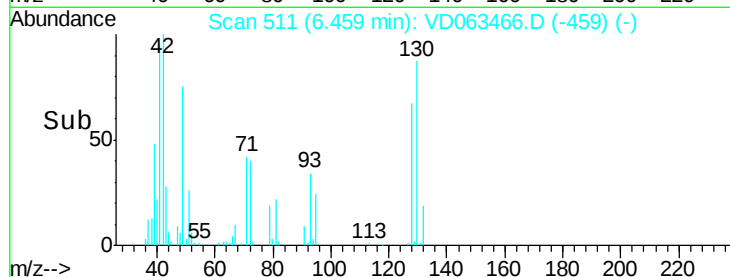
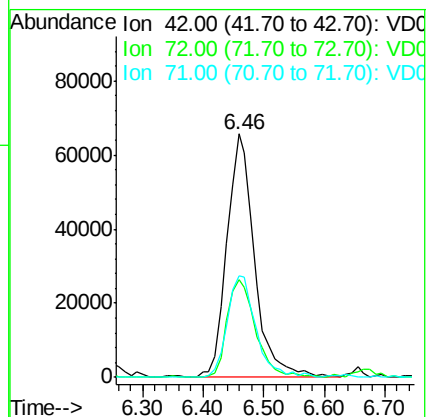
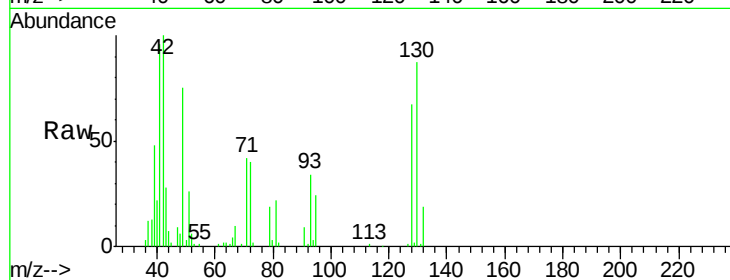
Tot Ion: 42 Resp: 208012

Ion Ratio Lower Upper

42 100

72 41.5 33.4 50.2

71 43.0 35.7 53.5



#30

Chloroform

Concen: 57.378 ug/l

RT: 6.67 min Scan# 532

Delta R.T. 0.01 min

Lab File: VD063466.D

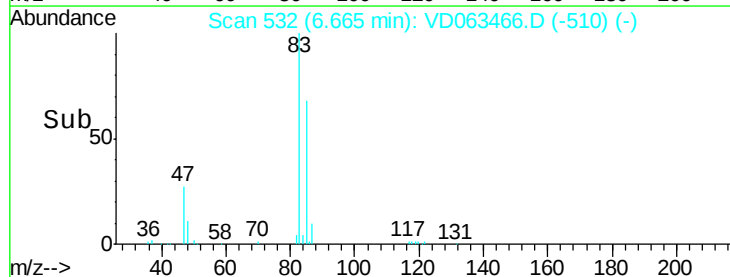
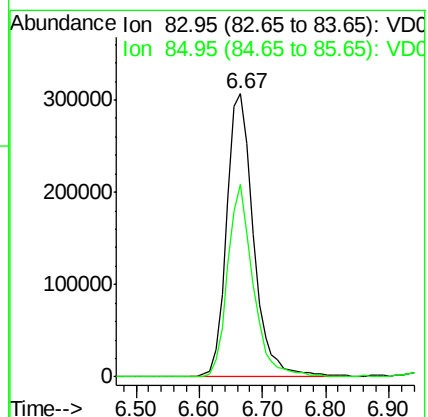
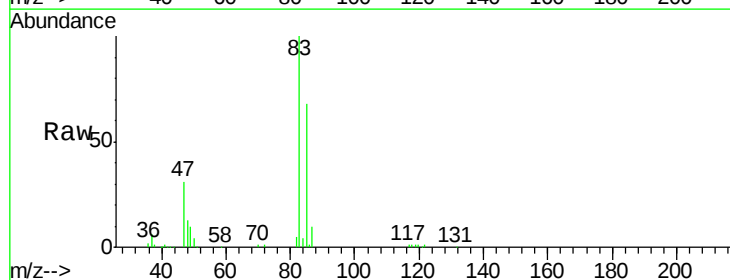
Acq: 9 Aug 2019 5:42

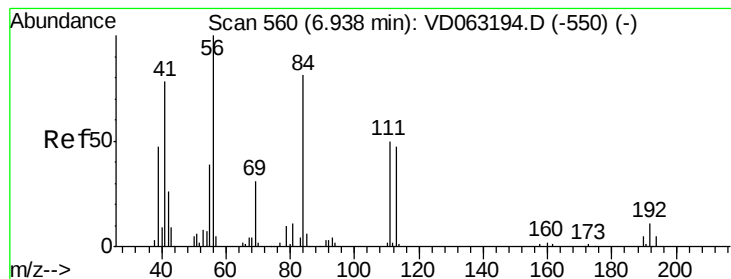
Tgt Ion: 83 Resp: 905081

Ion Ratio Lower Upper

83 100

85 68.1 54.2 81.4





#31

Cyclohexane

Concen: 52.106 ug/l

RT: 6.95 min Scan# 561

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

SB-05(13-14)MSD

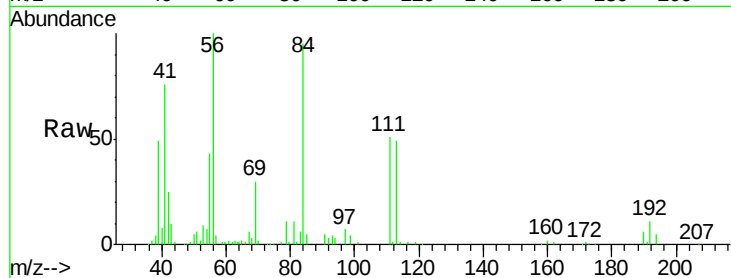
Tot Ion: 56 Resp: 415134

Ion Ratio Lower Upper

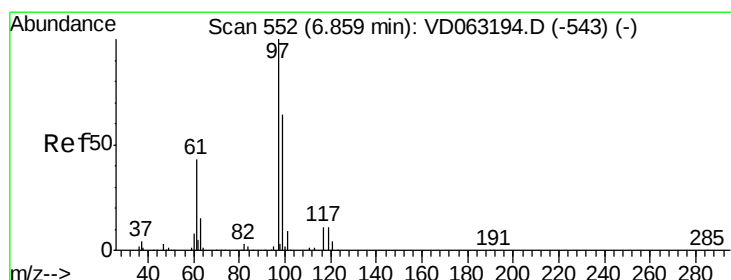
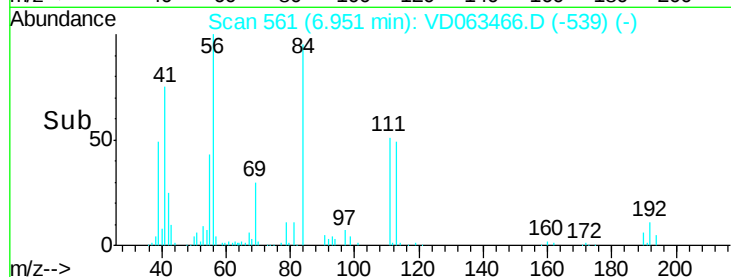
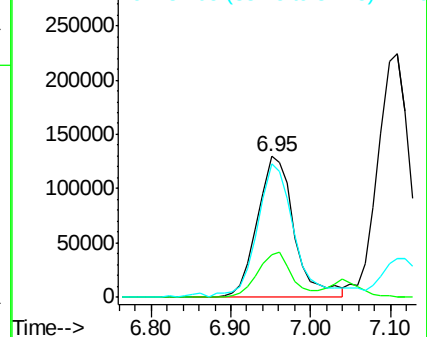
56 100

69 29.9 24.5 36.7

84 95.3 64.9 97.3



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 58.118 ug/l

RT: 6.87 min Scan# 553

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

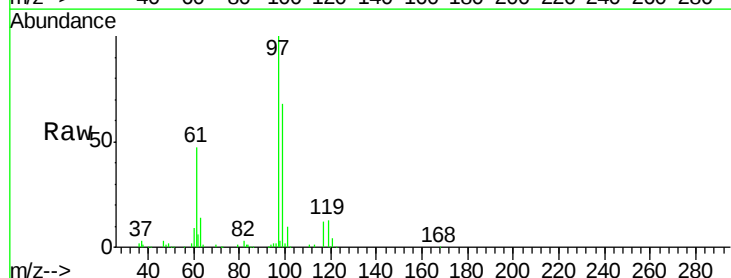
Tgt Ion: 97 Resp: 886750

Ion Ratio Lower Upper

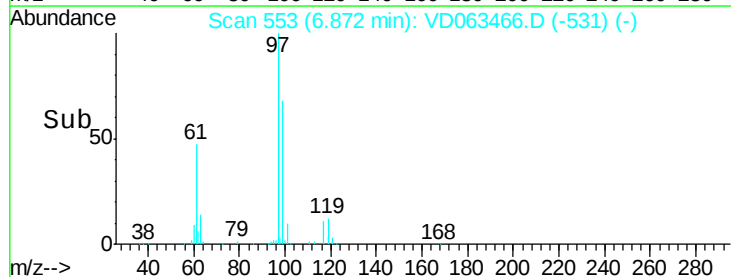
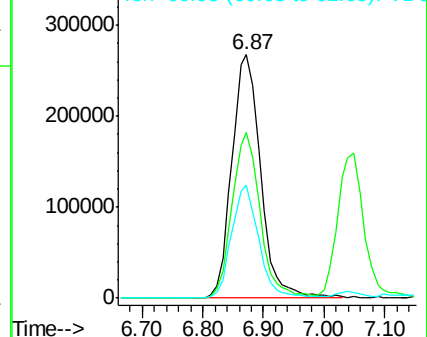
97 100

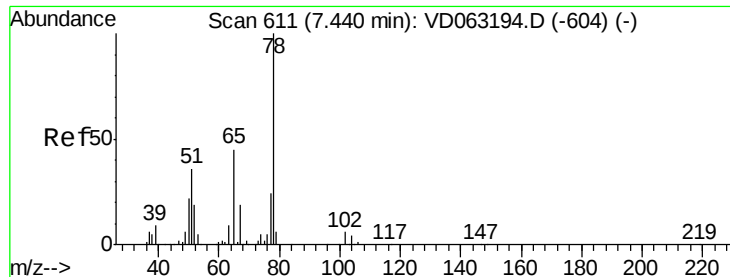
99 67.8 51.2 76.8

61 46.7 34.2 51.2



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 51.806 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

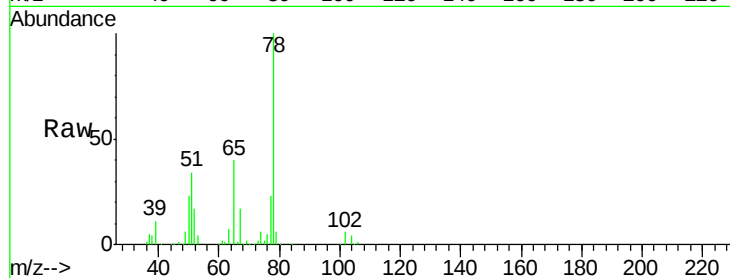
SB-05(13-14)MSD

Tot Ion: 65 Resp: 463364

Ion Ratio Lower Upper

65 100

67 42.1 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

200000

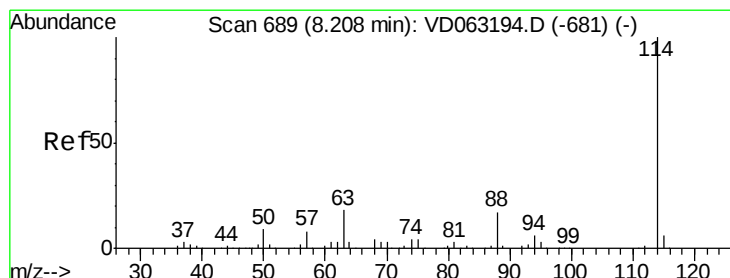
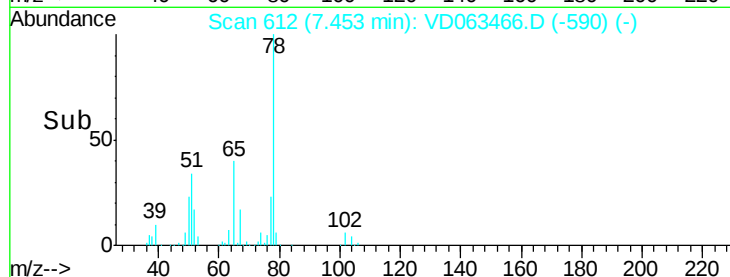
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

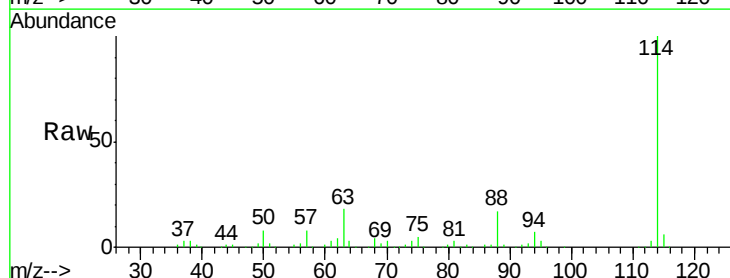
Tgt Ion: 114 Resp: 1192063

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.2

88 17.2 0.0 34.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

600000

500000

400000

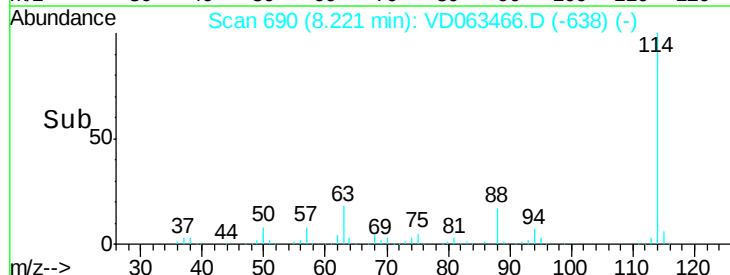
300000

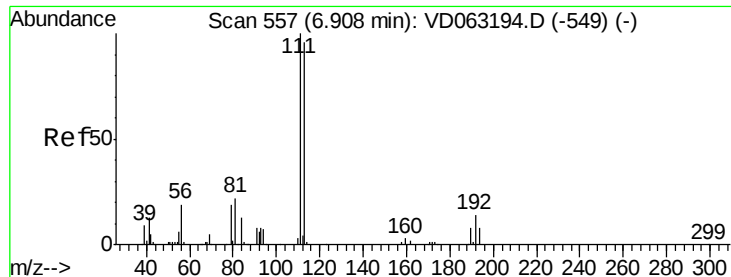
200000

100000

0

Time-->

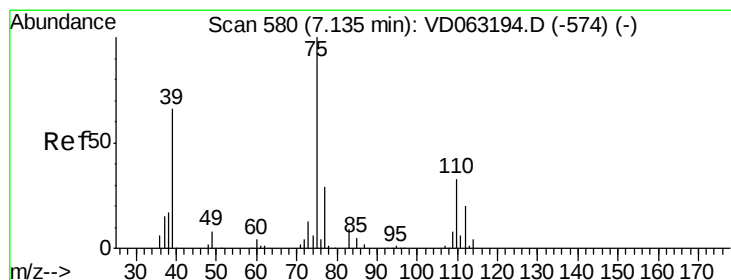
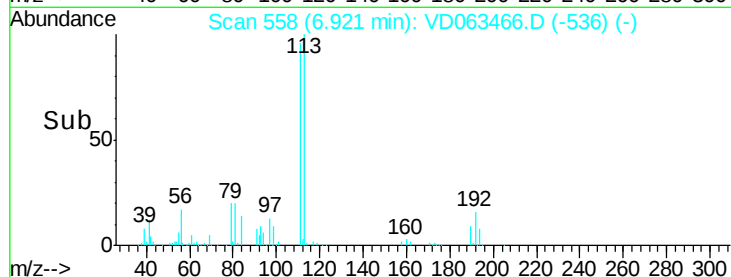
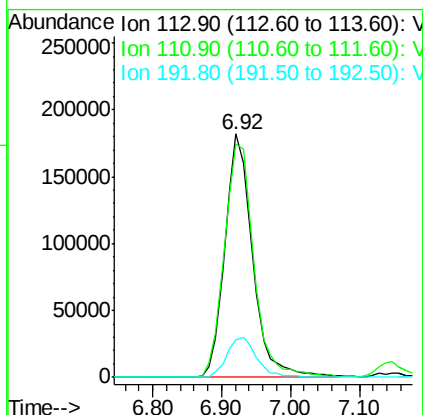
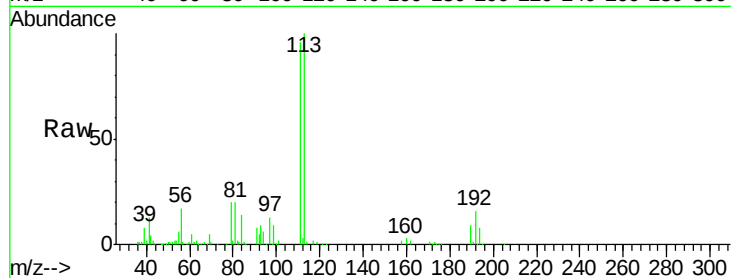




#35
 Dibromofluoromethane
 Concen: 49.652 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.01 min
 Lab File: VD063466.D
 Acq: 9 Aug 2019 5:42

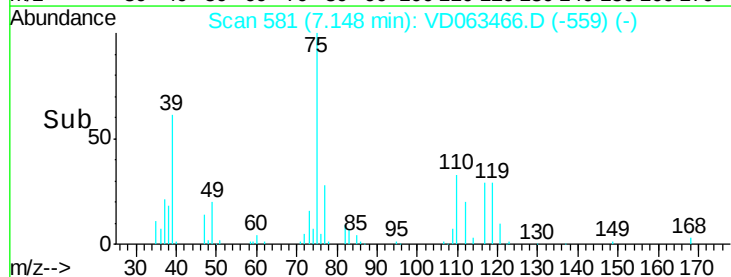
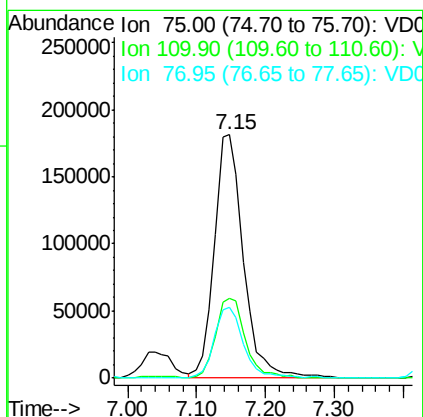
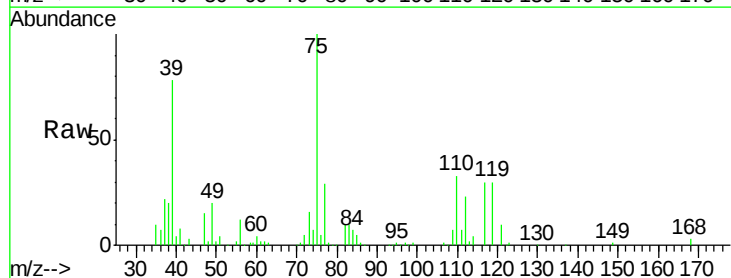
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-05(13-14)MSD

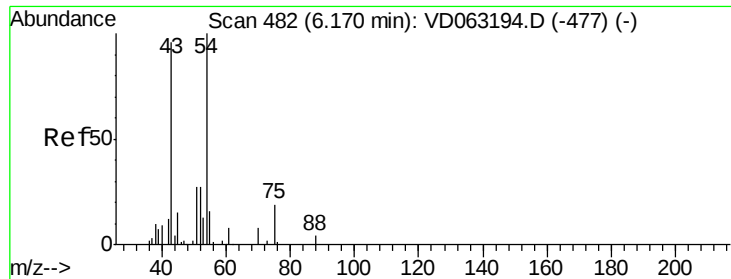
Tot Ion	Ratio	Lower	Upper
113	100		
111	95.8	83.2	124.8
192	15.6	11.8	17.8



#36
 1,1-Dichloropropene
 Concen: 48.265 ug/l
 RT: 7.15 min Scan# 581
 Delta R.T. 0.01 min
 Lab File: VD063466.D
 Acq: 9 Aug 2019 5:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	32.7	16.1	48.2
77	29.0	22.7	34.1

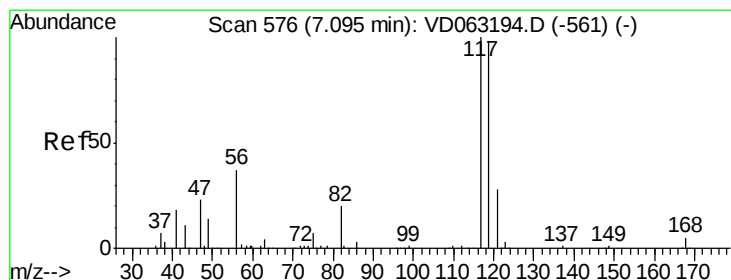
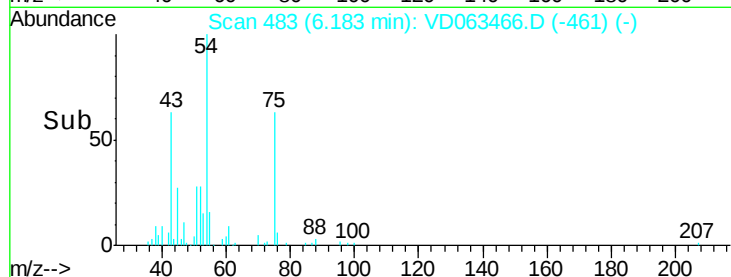
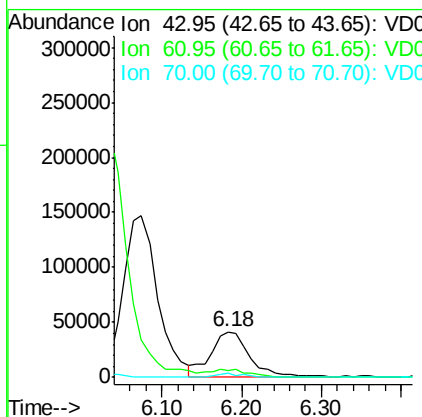
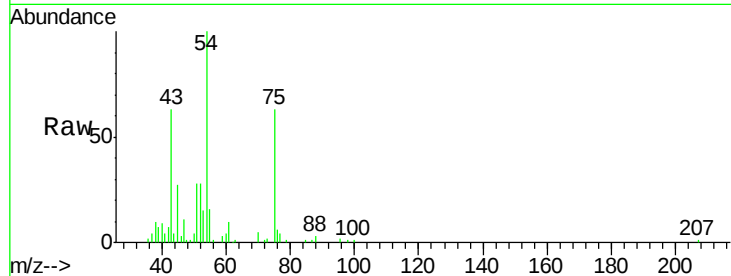




#37
Ethyl Acetate
Concen: 28.190 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

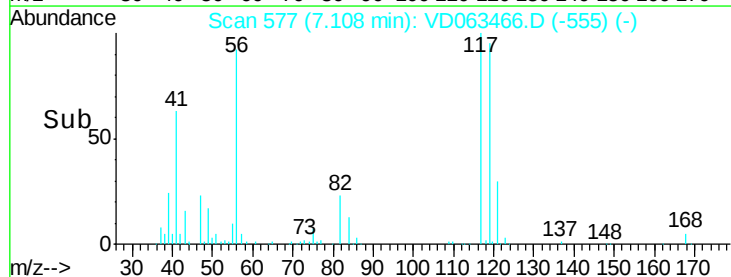
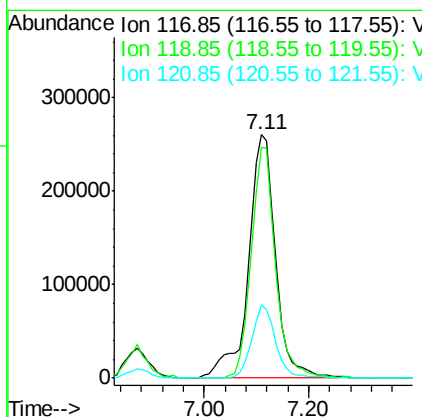
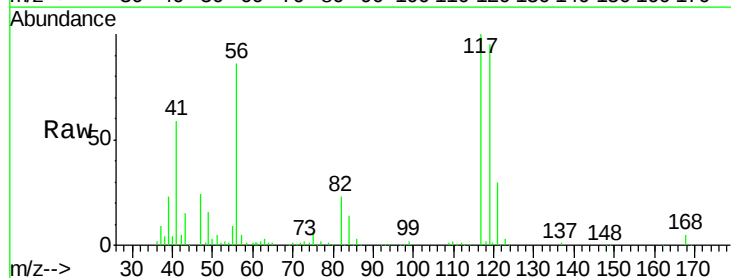
Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

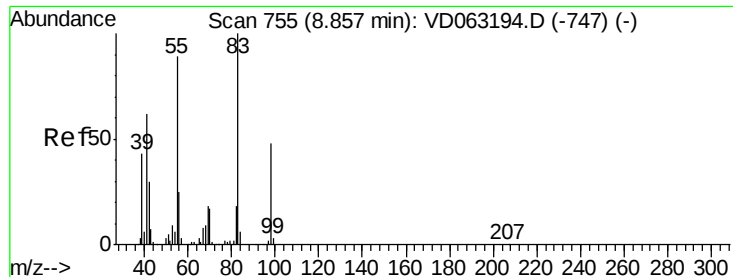
Tot Ion: 43 Resp: 137782
Ion Ratio Lower Upper
43 100
61 16.0 11.3 16.9
70 8.2 5.1 7.7#



#38
Carbon Tetrachloride
Concen: 55.881 ug/l
RT: 7.11 min Scan# 577
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion: 117 Resp: 915219
Ion Ratio Lower Upper
117 100
119 95.0 78.2 117.2
121 30.3 22.1 33.1





#39

Methvlcvclohexane

Concen: 45.970 ug/l

RT: 8.87 min Scan# 756

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

SB-05(13-14)MSD

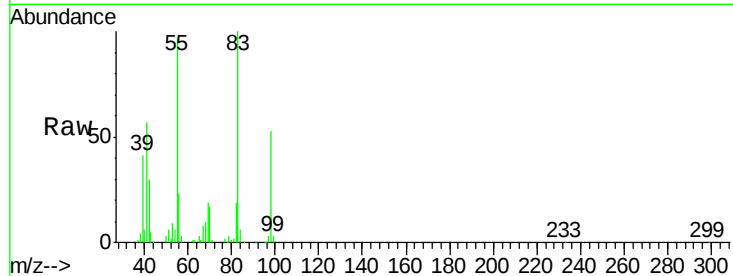
Tot Ion: 83 Resp: 416676

Ion Ratio Lower Upper

83 100

55 96.5 71.1 106.7

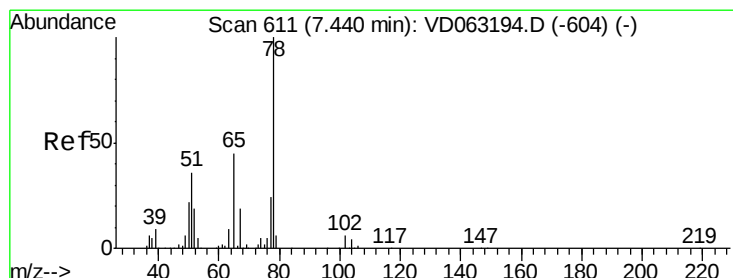
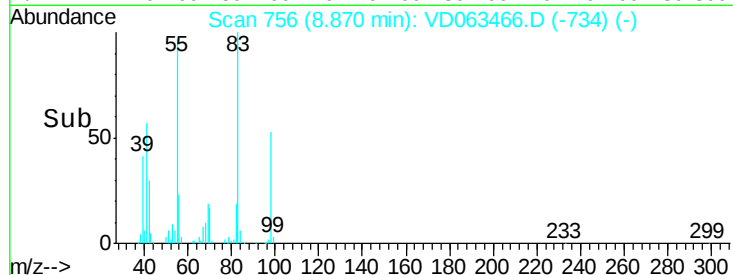
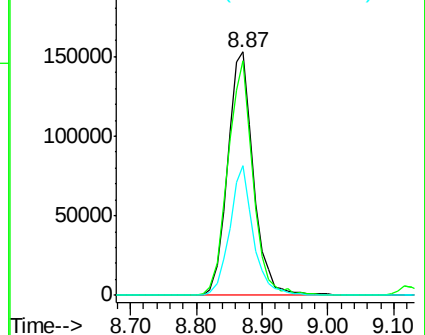
98 53.2 38.5 57.7



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 53.968 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD063466.D

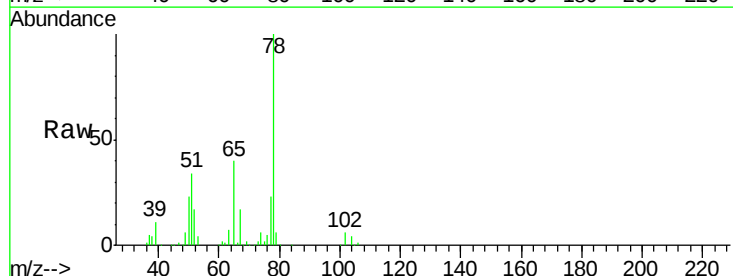
Acq: 9 Aug 2019 5:42

Tgt Ion: 78 Resp: 1230508

Ion Ratio Lower Upper

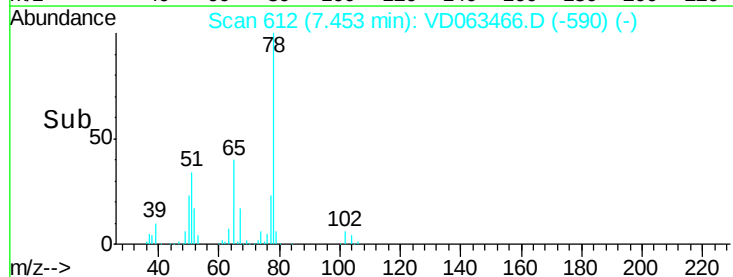
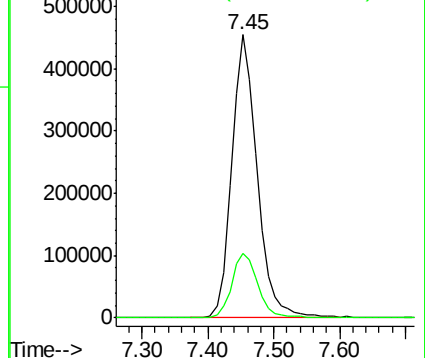
78 100

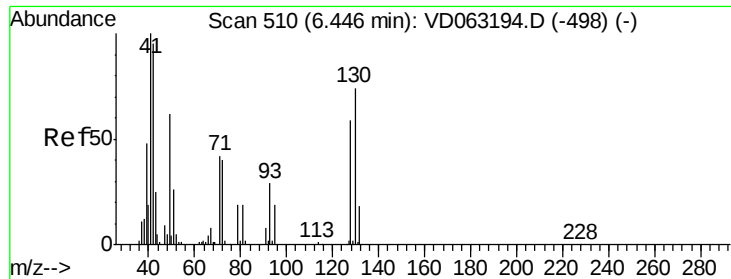
77 22.8 19.4 29.2



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

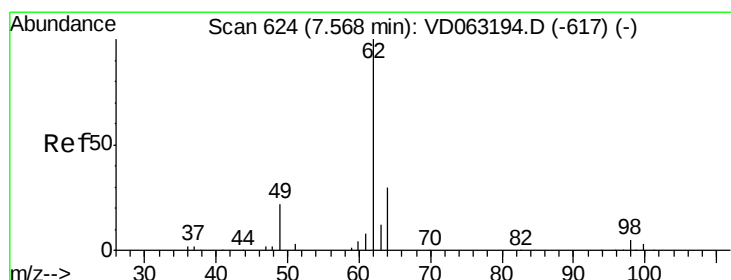
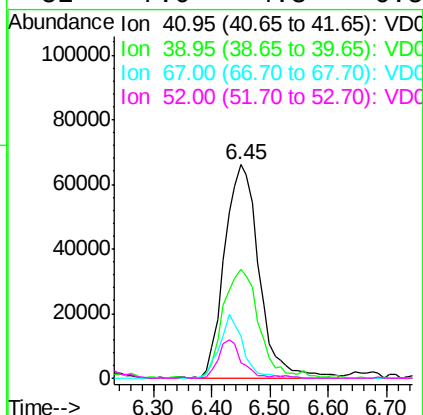
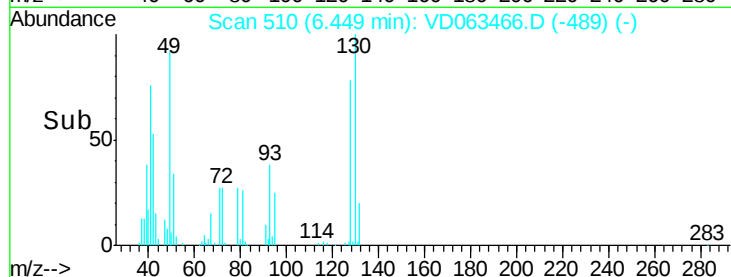
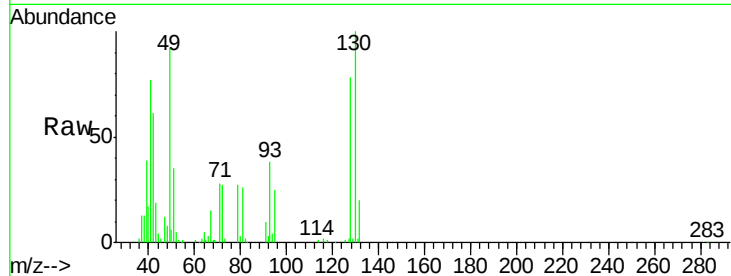




#41
Methacrylonitrile
Concen: 46.574 ug/l
RT: 6.45 min Scan# 510
Delta R.T. 0.00 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

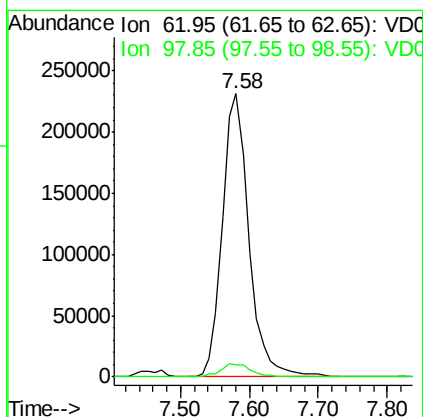
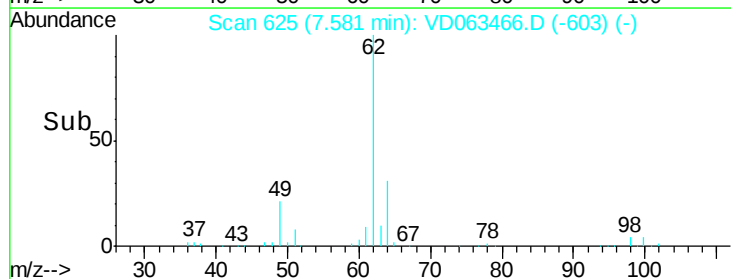
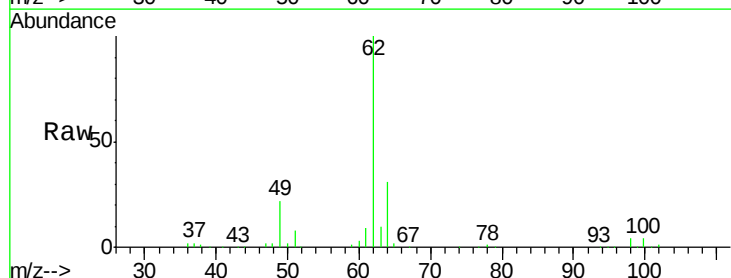
Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

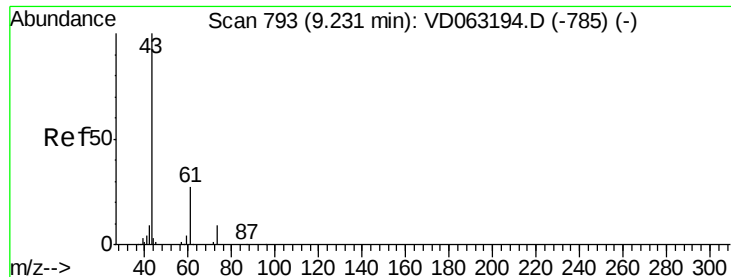
Tot Ion: 41 Resp: 272292
Ion Ratio Lower Upper
41 100
39 51.0 38.4 57.6
67 19.6 6.7 10.1#
52 7.0 4.3 6.5#



#42
1,2-Dichloroethane
Concen: 51.173 ug/l
RT: 7.58 min Scan# 625
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion: 62 Resp: 618359
Ion Ratio Lower Upper
62 100
98 4.4 0.0 9.8





#43

Isopropyl Acetate

Concen: 23.729 ug/l

RT: 9.24 min Scan# 794

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

SB-05(13-14)MSD

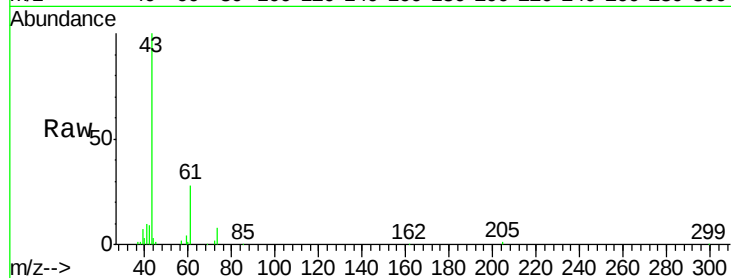
Tot Ion: 43 Resp: 148149

Ion Ratio Lower Upper

43 100

61 28.3 21.4 32.0

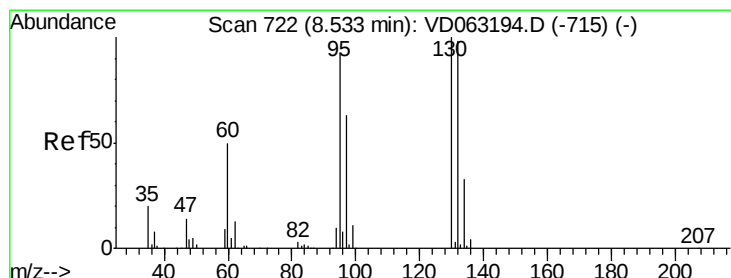
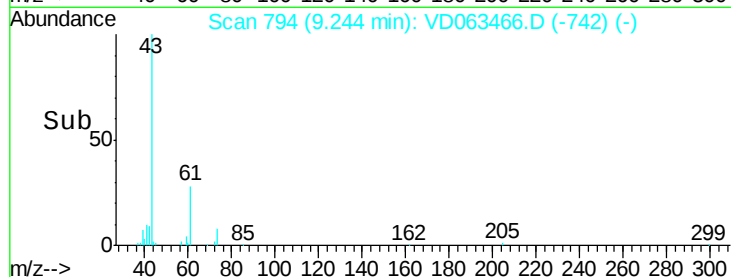
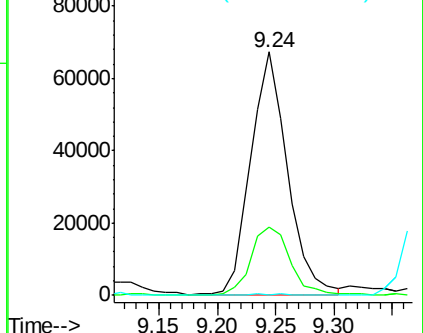
87 0.0 0.2 0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 47.820 ug/l

RT: 8.55 min Scan# 723

Delta R.T. 0.01 min

Lab File: VD063466.D

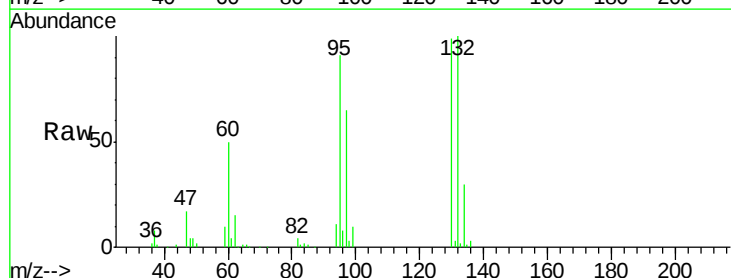
Acq: 9 Aug 2019 5:42

Tgt Ion:130 Resp: 441814

Ion Ratio Lower Upper

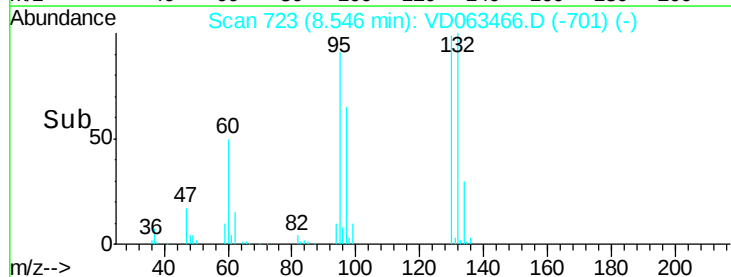
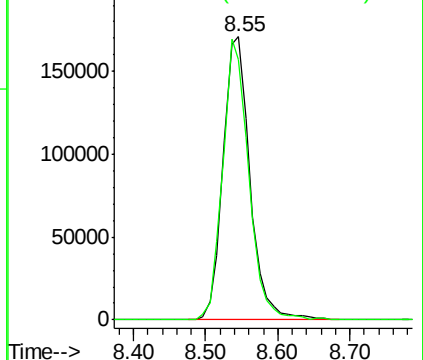
130 100

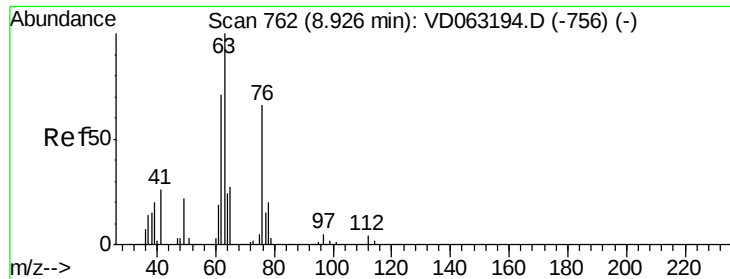
95 91.9 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 48.278 ug/l

RT: 8.94 min Scan# 763

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

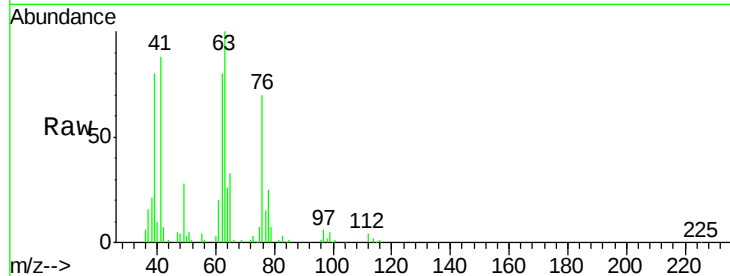
SB-05(13-14)MSD

Tot Ion: 63 Resp: 279784

Ion Ratio Lower Upper

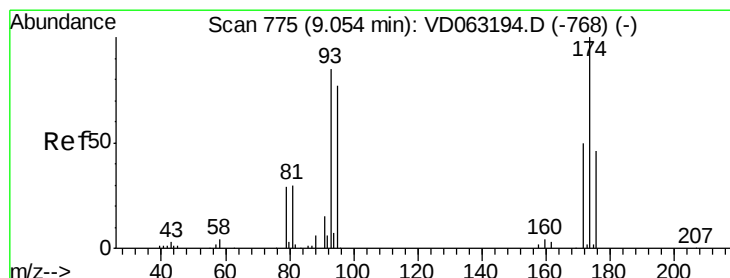
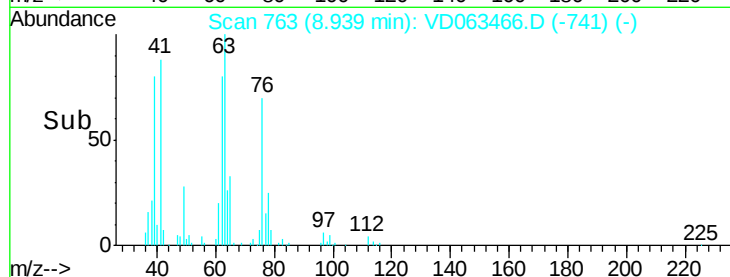
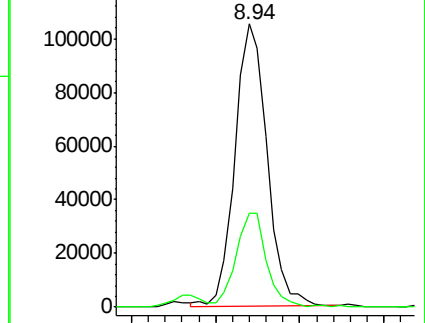
63 100

65 33.3 23.6 35.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 50.244 ug/l

RT: 9.07 min Scan# 776

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

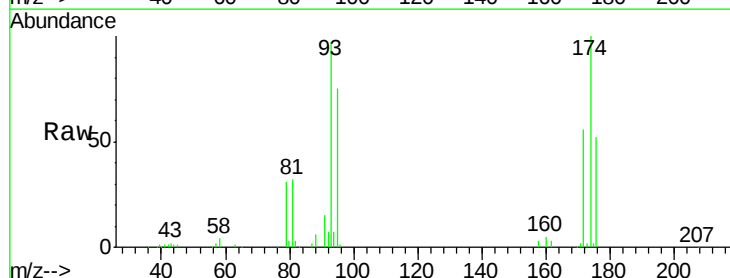
Tgt Ion: 93 Resp: 242113

Ion Ratio Lower Upper

93 100

95 76.9 72.8 109.2

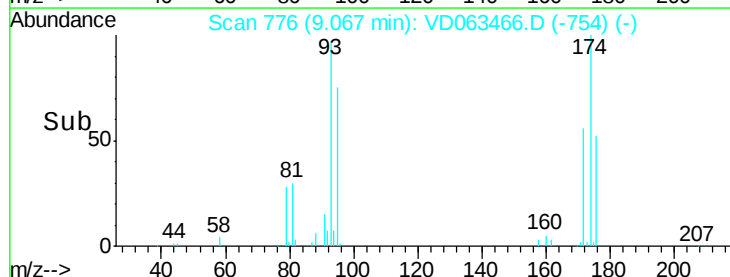
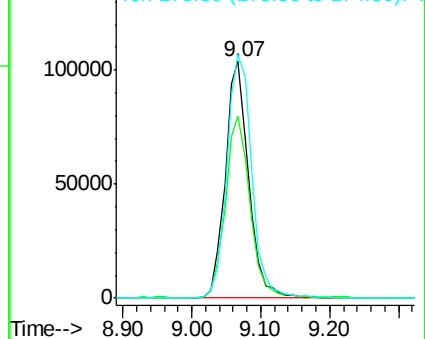
174 102.8 94.4 141.6

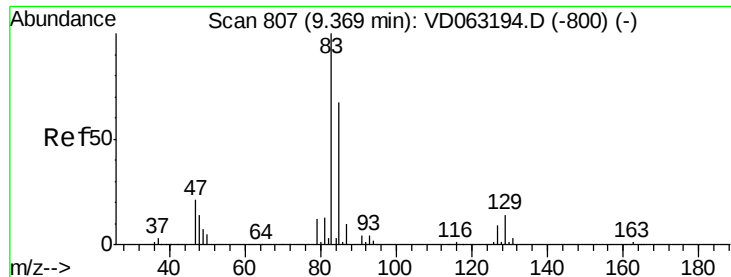


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 52.600 ug/l

RT: 9.37 min Scan# 807

Delta R.T. 0.00 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

SB-05(13-14)MSD

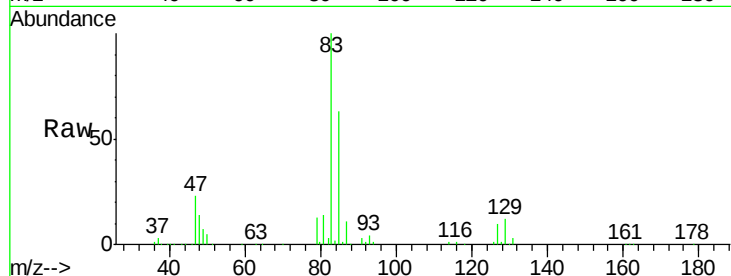
Tot Ion: 83 Resp: 646102

Ion Ratio Lower Upper

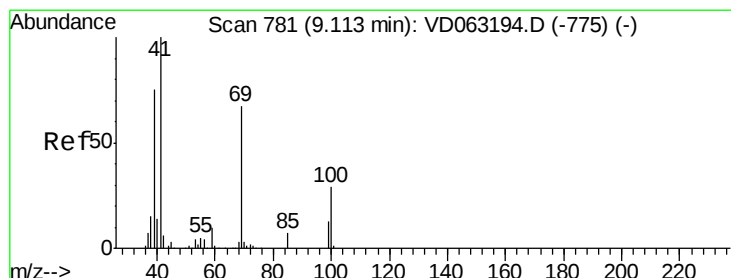
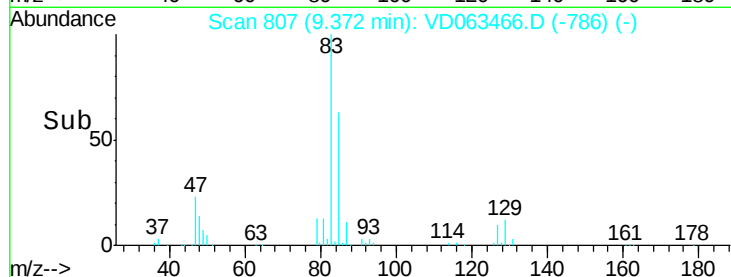
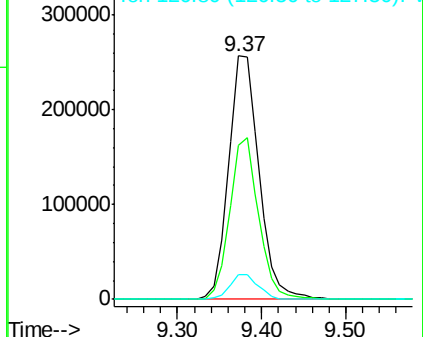
83 100

85 63.0 53.6 80.4

127 10.0 7.2 10.8



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 58.374 ug/l

RT: 9.12 min Scan# 781

Delta R.T. 0.00 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

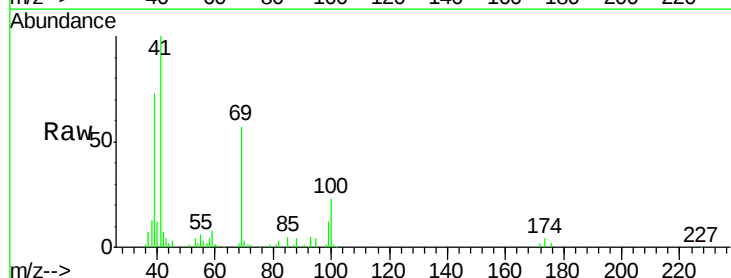
Tgt Ion: 41 Resp: 236365

Ion Ratio Lower Upper

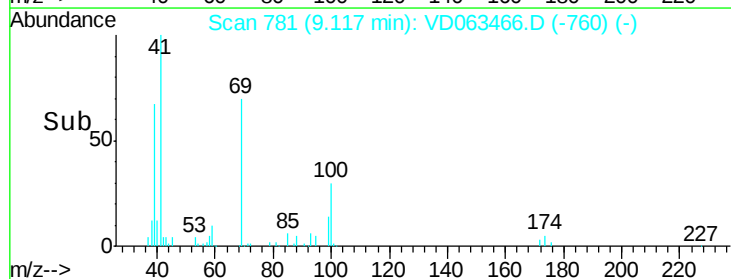
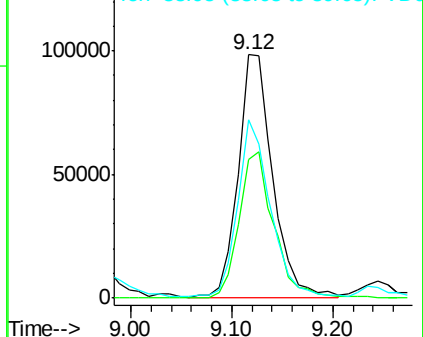
41 100

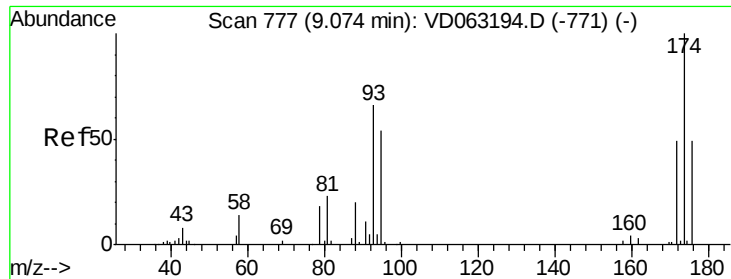
69 57.0 53.4 80.0

39 73.2 60.3 90.5



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC

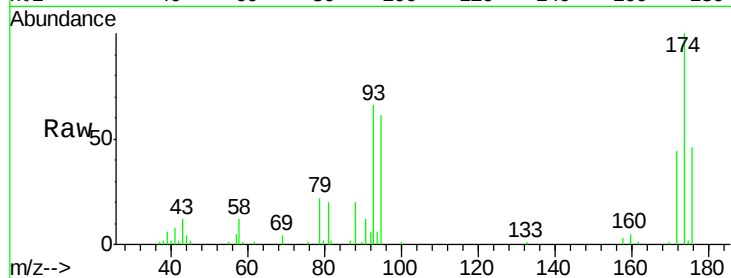




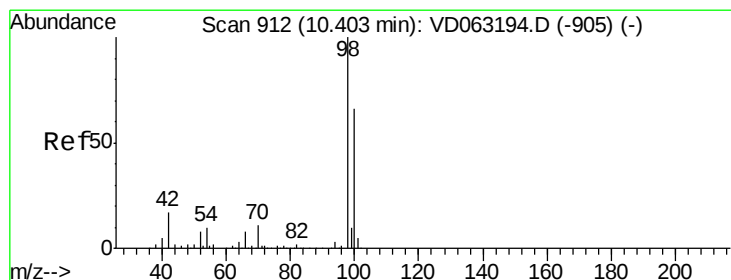
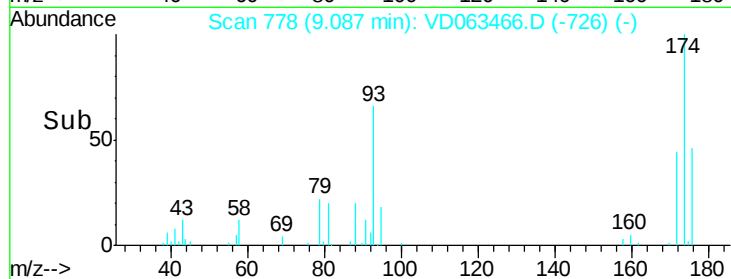
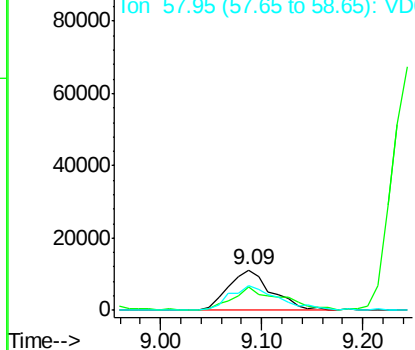
#49
1,4-Dioxane
Concen: 965.690 ug/l
RT: 9.09 min Scan# 778
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

Tot Ion: 88 Resp: 33129
Ion Ratio Lower Upper
88 100
43 58.3 30.7 46.1#
58 61.8 56.5 84.7

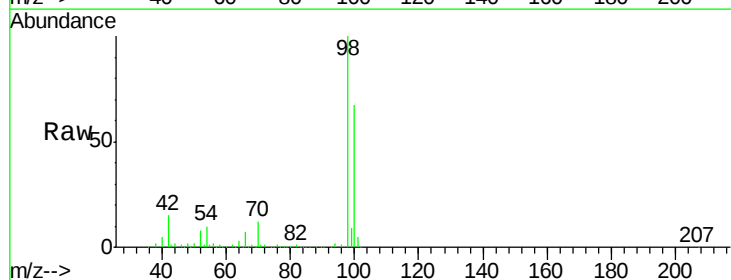


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

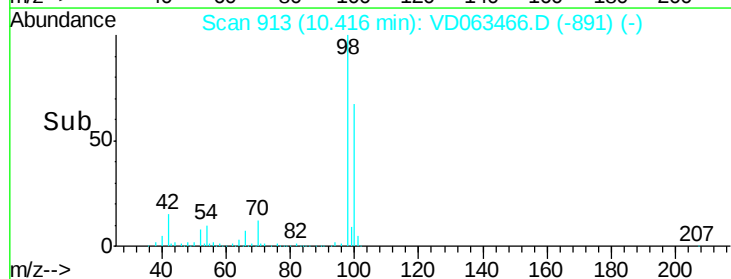
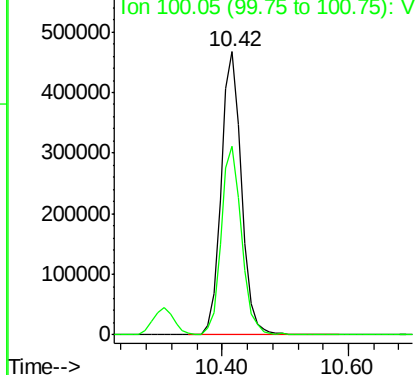


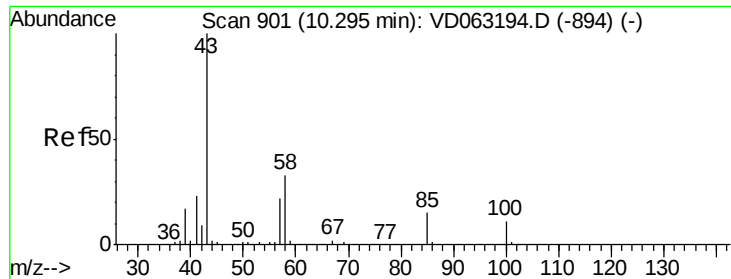
#50
Toluene-d8
Concen: 46.076 ug/l
RT: 10.42 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion: 98 Resp: 1049492
Ion Ratio Lower Upper
98 100
100 66.5 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 234.819 ug/l

RT: 10.31 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

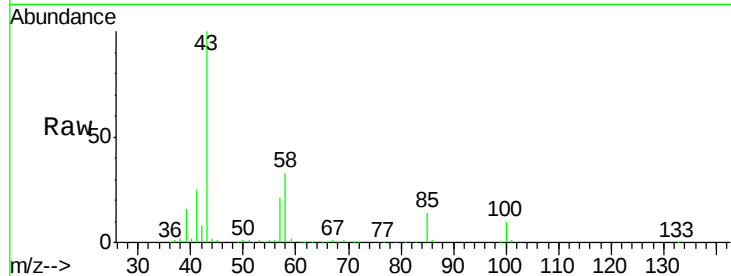
SB-05(13-14)MSD

Tot Ion: 43 Resp: 997036

Ion Ratio Lower Upper

43 100

58 32.7 26.2 39.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.31

400000

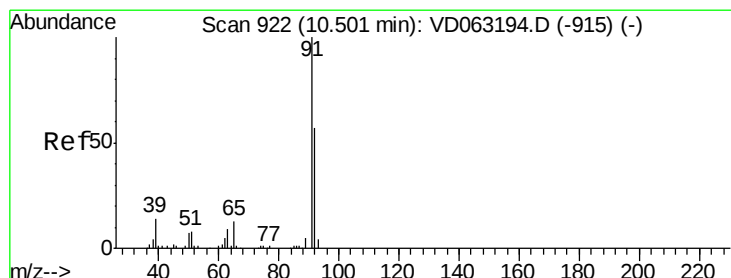
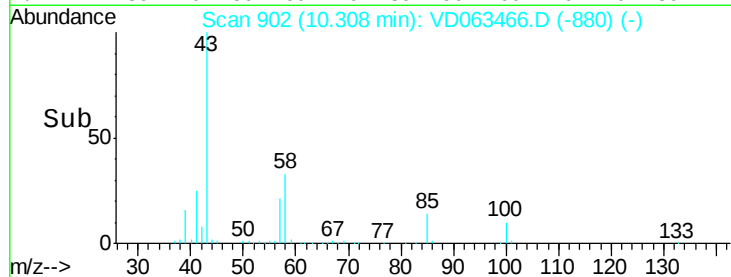
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 50.109 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.01 min

Lab File: VD063466.D

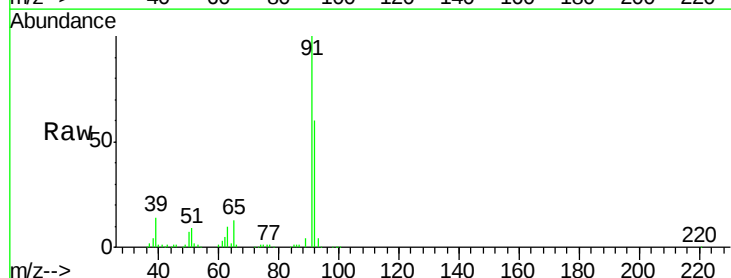
Acq: 9 Aug 2019 5:42

Tgt Ion: 92 Resp: 759881

Ion Ratio Lower Upper

92 100

91 165.9 140.8 211.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

600000

500000

400000

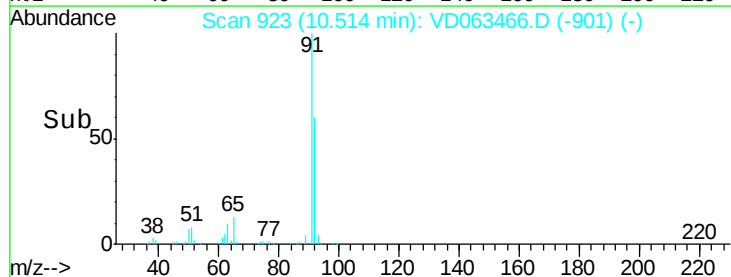
300000

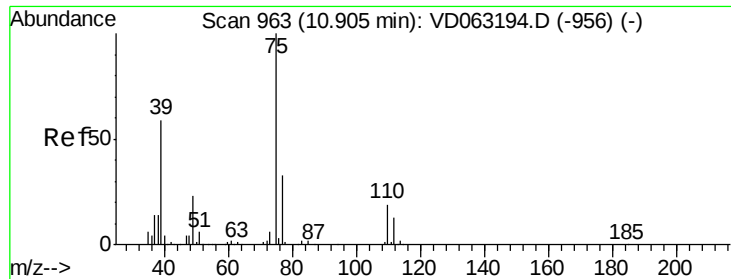
200000

100000

0

Time-->

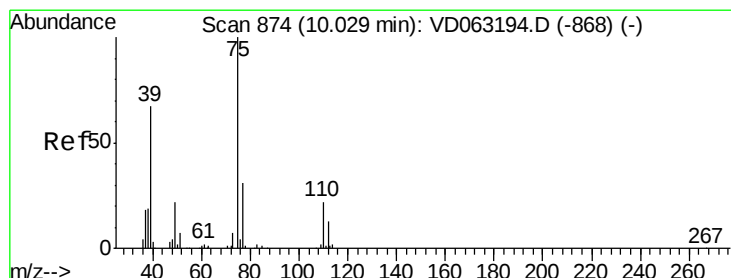
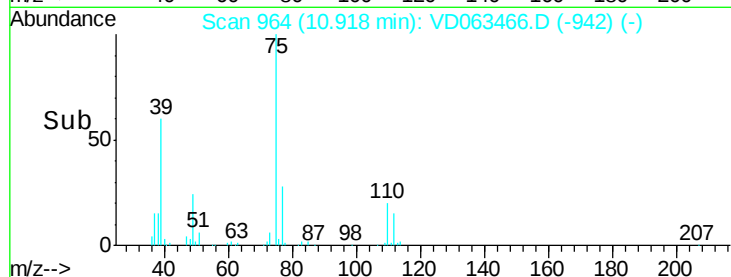
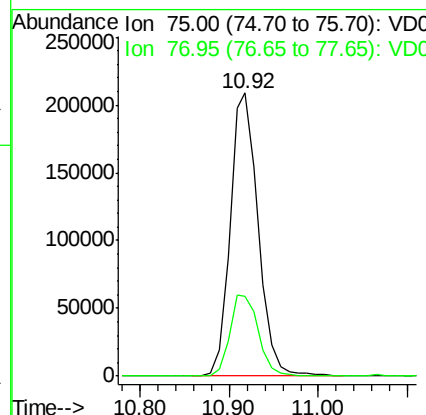
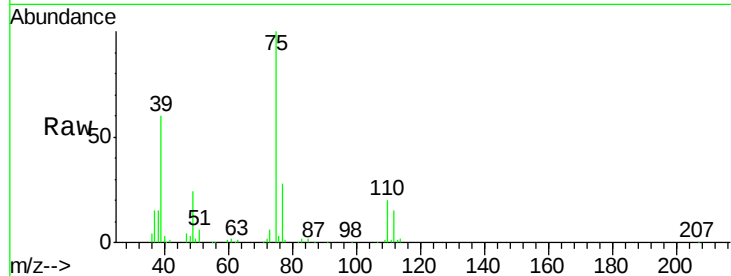




#53
t-1,3-Dichloropropene
Concen: 43.362 ug/l
RT: 10.92 min Scan# 964
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

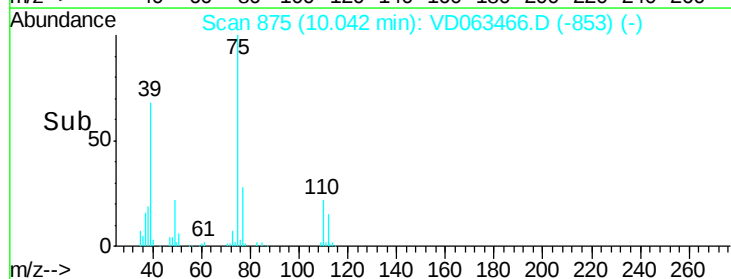
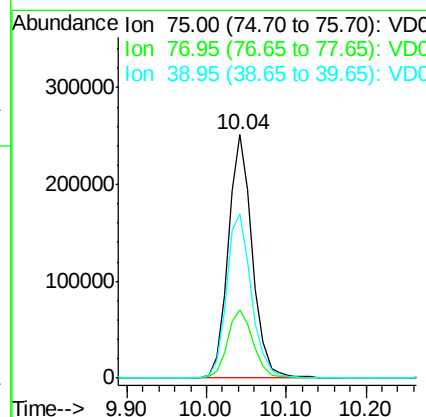
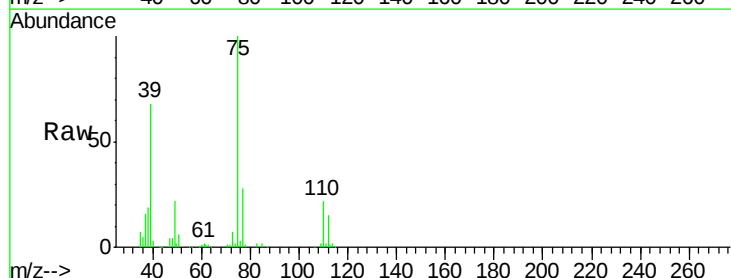
Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

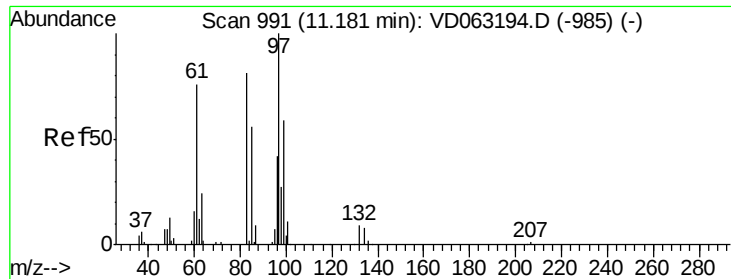
Tot Ion: 75 Resp: 459199
Ion Ratio Lower Upper
75 100
77 28.2 26.6 40.0



#54
cis-1,3-Dichloropropene
Concen: 47.984 ug/l
RT: 10.04 min Scan# 875
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion: 75 Resp: 534056
Ion Ratio Lower Upper
75 100
77 28.2 24.9 37.3
39 67.5 53.9 80.9





#55

1,1,2-Trichloroethane

Concen: 51.015 ug/l

RT: 11.19 min Scan# 992

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

SB-05(13-14)MSD

Tot Ion: 97 Resp: 261277

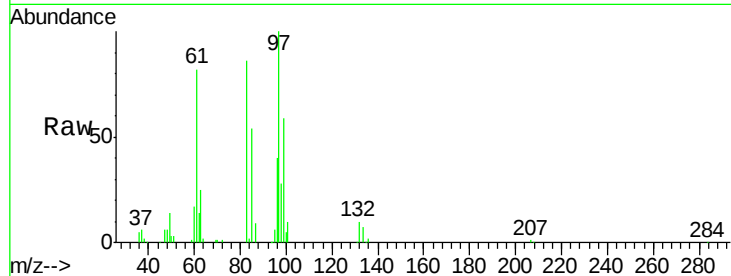
Ion Ratio Lower Upper

97 100

83 86.3 64.8 97.2

85 54.5 44.9 67.3

99 59.4 47.2 70.8

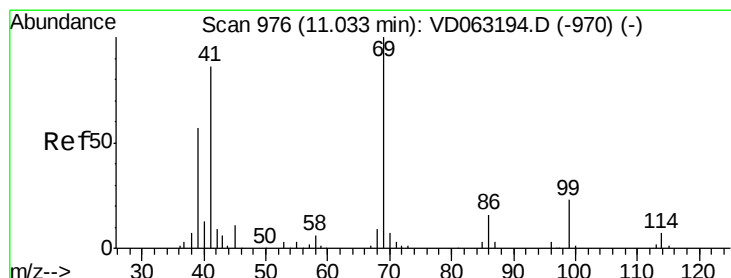
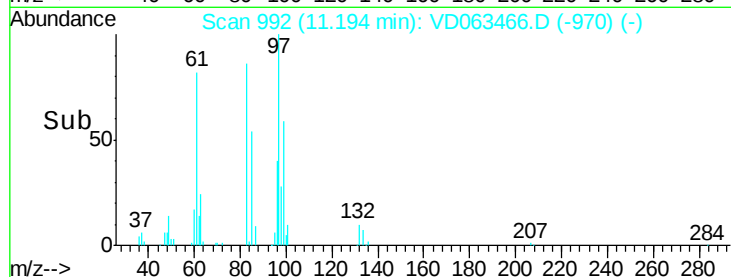
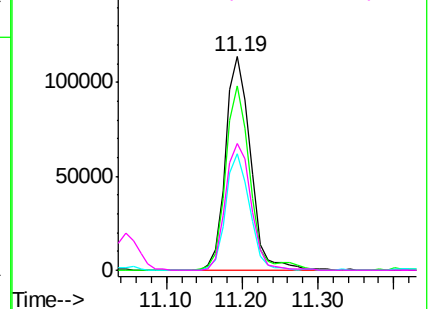


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 29.919 ug/l

RT: 11.05 min Scan# 977

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

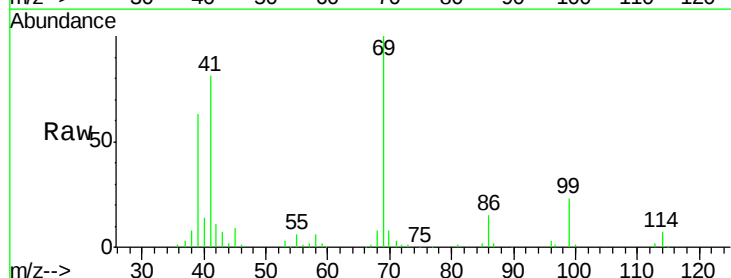
Tgt Ion: 69 Resp: 167796

Ion Ratio Lower Upper

69 100

41 80.6 68.8 103.2

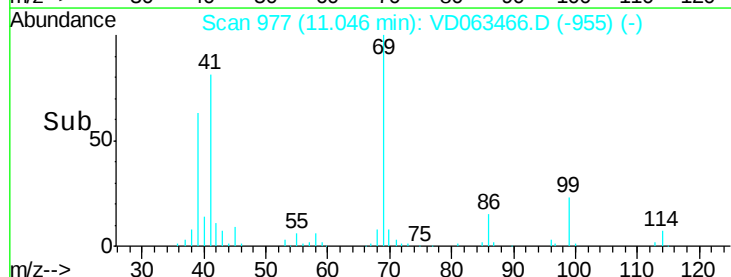
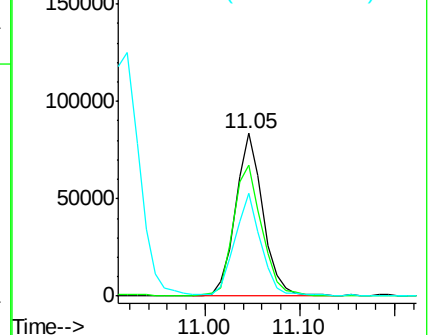
39 62.9 45.8 68.8

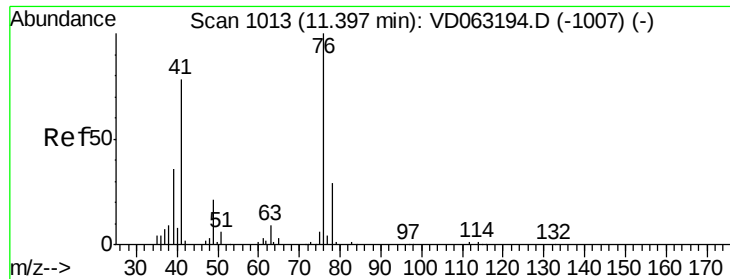


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 51.019 ug/l

RT: 11.41 min Scan# 1014

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

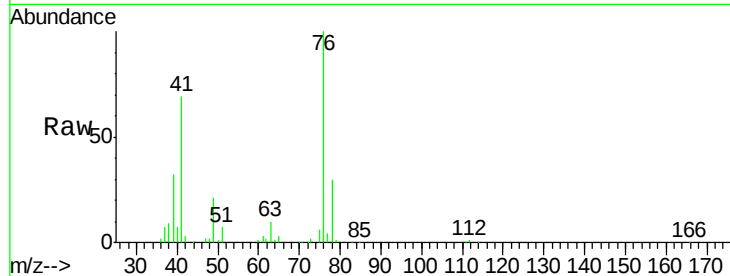
SB-05(13-14)MSD

Tot Ion: 76 Resp: 411699

Ion Ratio Lower Upper

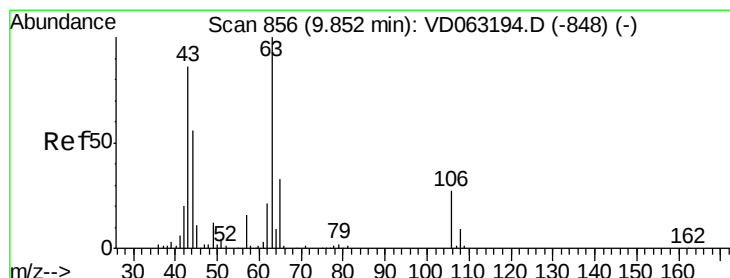
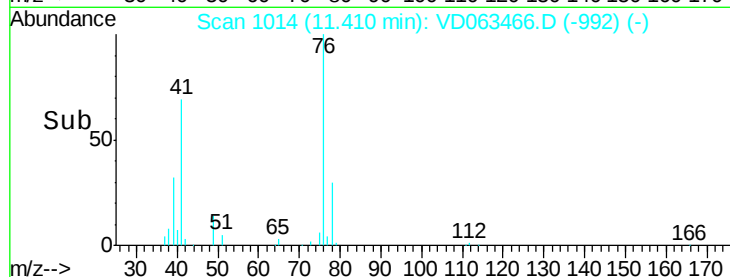
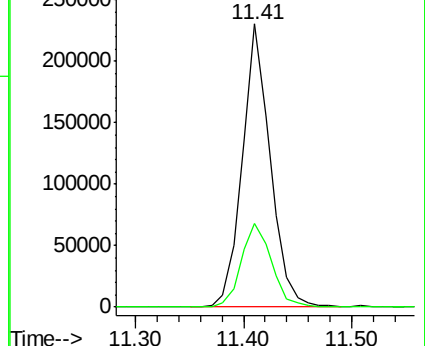
76 100

78 29.8 23.4 35.0



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 227.237 ug/l

RT: 9.85 min Scan# 856

Delta R.T. 0.00 min

Lab File: VD063466.D

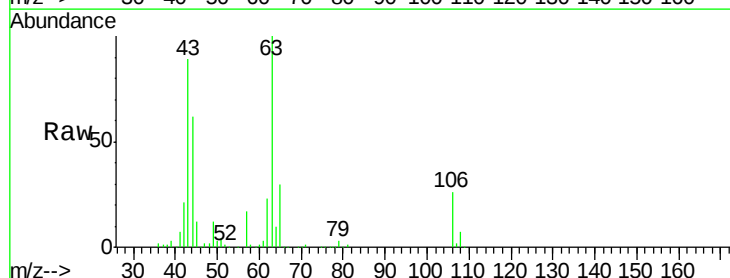
Acq: 9 Aug 2019 5:42

Tgt Ion: 63 Resp: 663132

Ion Ratio Lower Upper

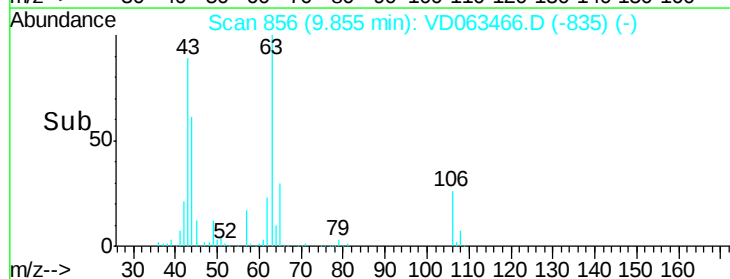
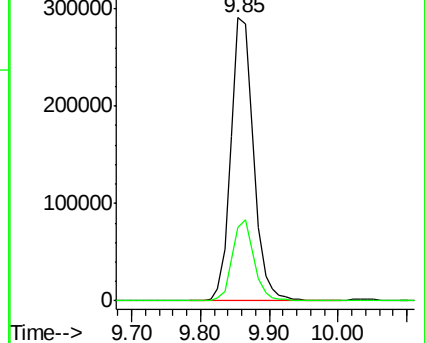
63 100

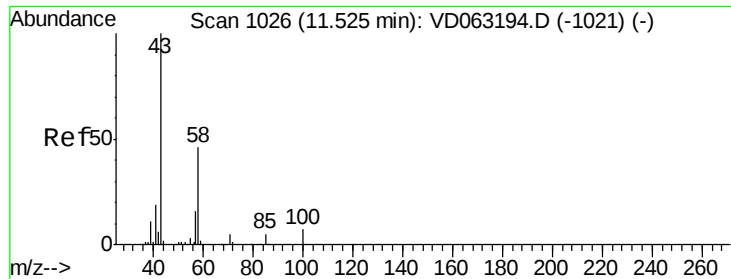
106 26.0 22.0 33.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

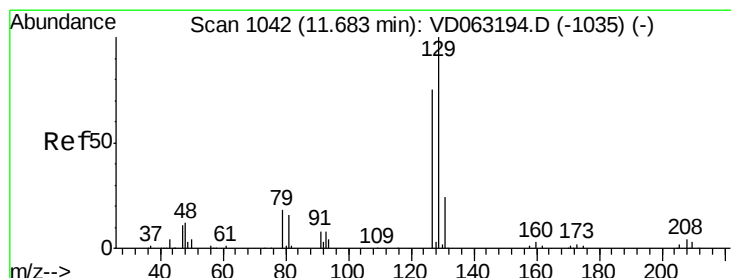
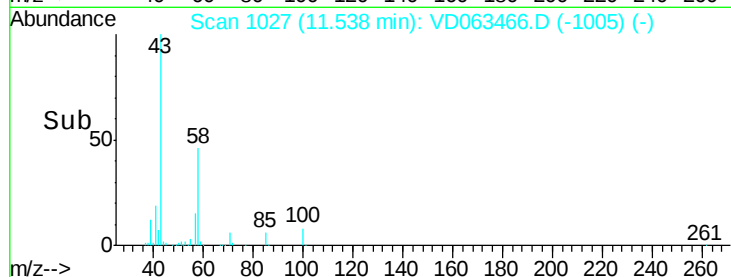
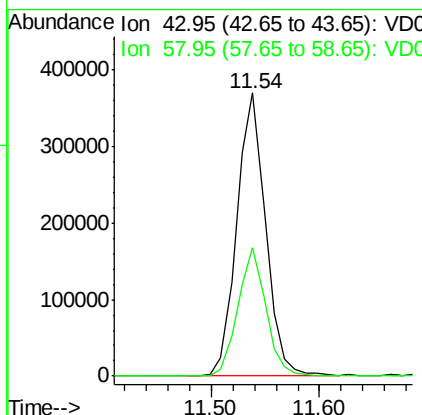
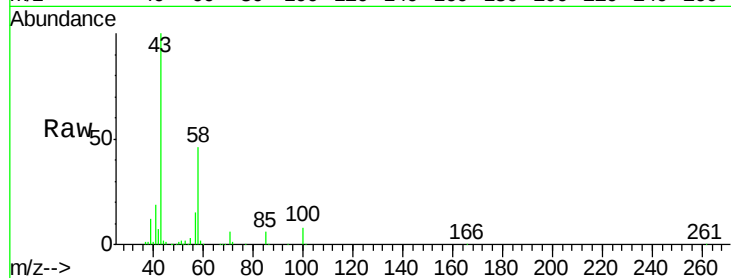




#59
2-Hexanone
Concen: 223.241 ug/l
RT: 11.54 min Scan# 1027
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

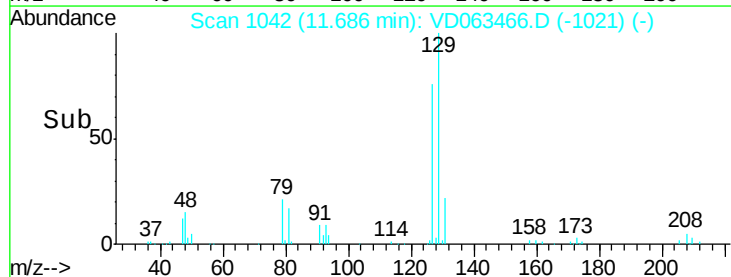
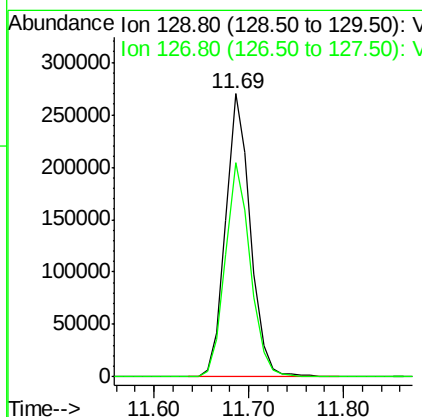
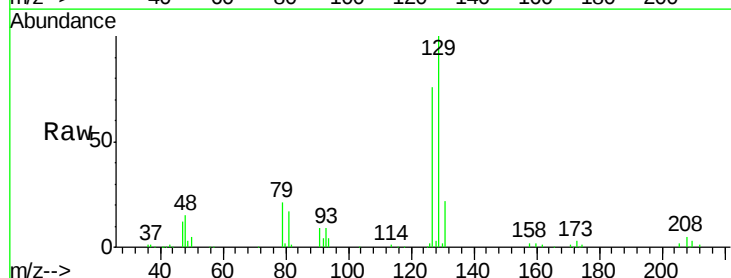
Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

Tot Ion: 43 Resp: 683077
Ion Ratio Lower Upper
43 100
58 45.6 22.9 68.5



#60
Dibromochloromethane
Concen: 50.574 ug/l
RT: 11.69 min Scan# 1042
Delta R.T. 0.00 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion: 129 Resp: 488985
Ion Ratio Lower Upper
129 100
127 75.7 37.6 112.8

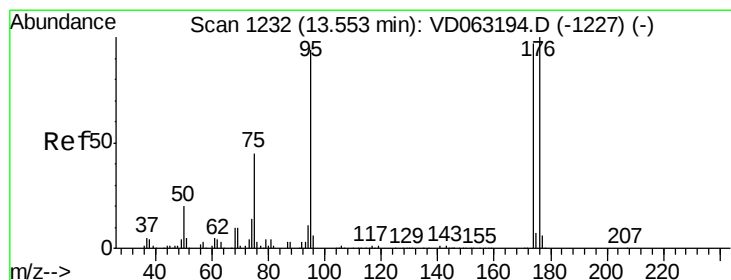
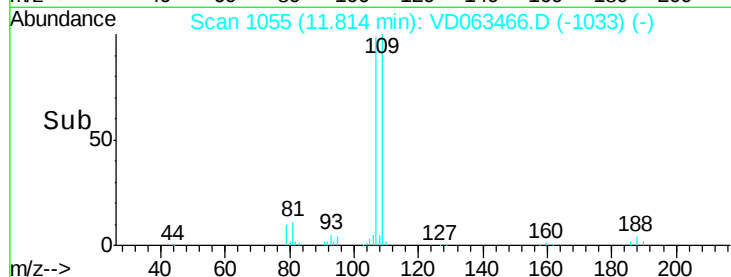
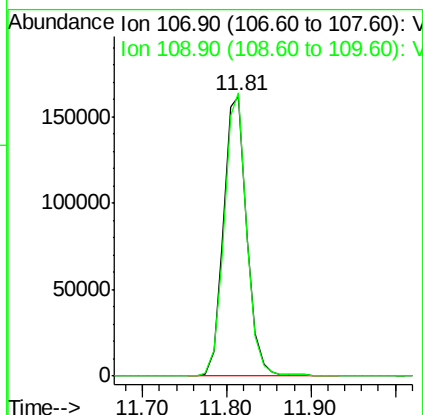
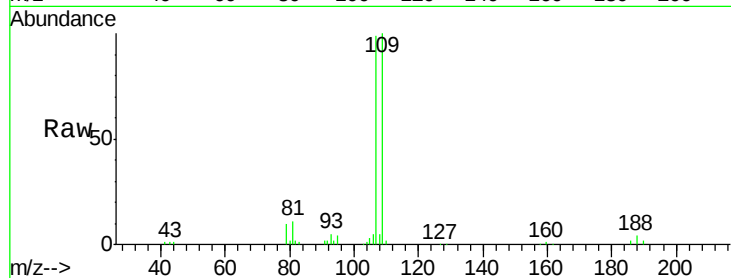




#61
 1,2-Dibromoethane
 Concen: 48.986 ug/l
 RT: 11.81 min Scan# 1055
 Delta R.T. 0.01 min
 Lab File: VD063466.D
 Acq: 9 Aug 2019 5:42

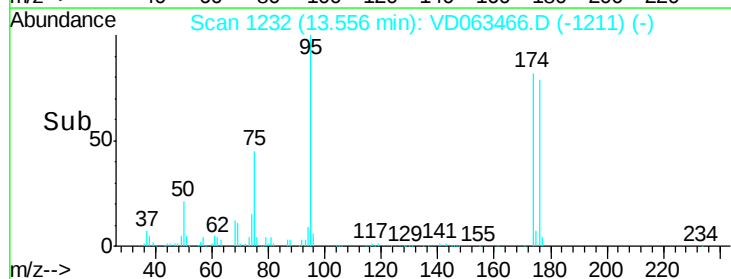
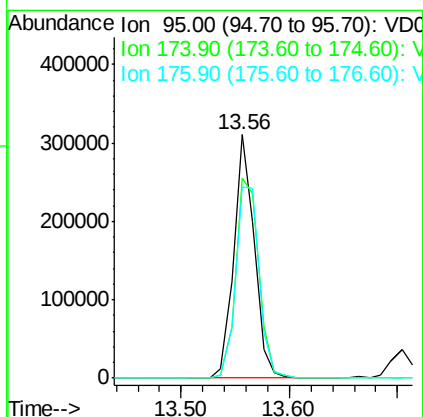
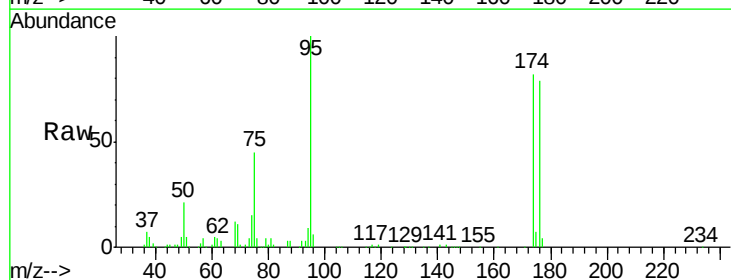
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-05(13-14)MSD

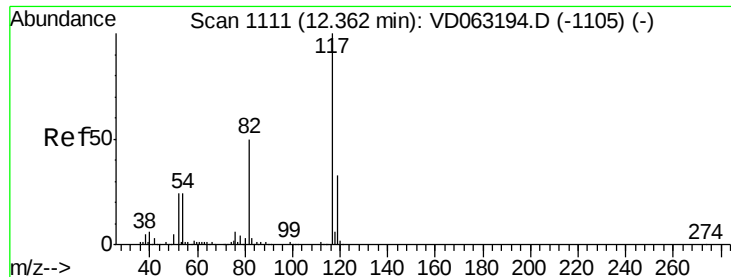
Tot Ion:107 Resp: 309578
 Ion Ratio Lower Upper
 107 100
 109 101.2 77.5 116.3



#62
 4-Bromofluorobenzene
 Concen: 39.603 ug/l
 RT: 13.56 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VD063466.D
 Acq: 9 Aug 2019 5:42

Tgt Ion: 95 Resp: 411066
 Ion Ratio Lower Upper
 95 100
 174 82.0 0.0 205.4
 176 78.7 0.0 211.8

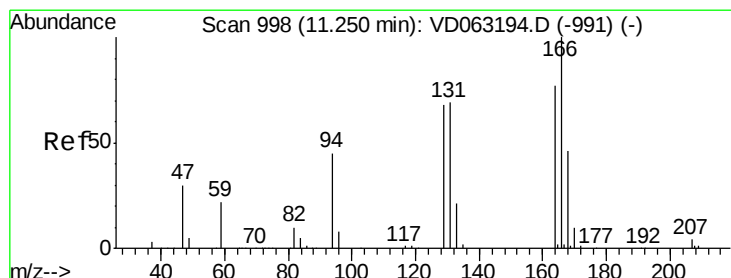
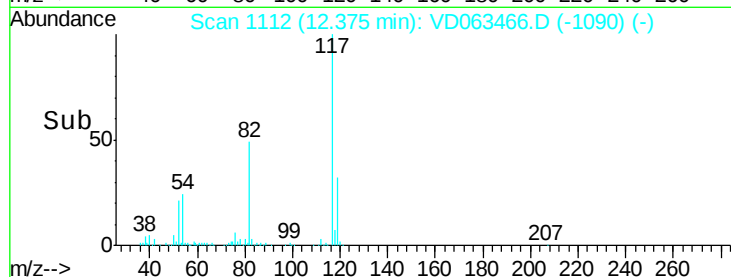
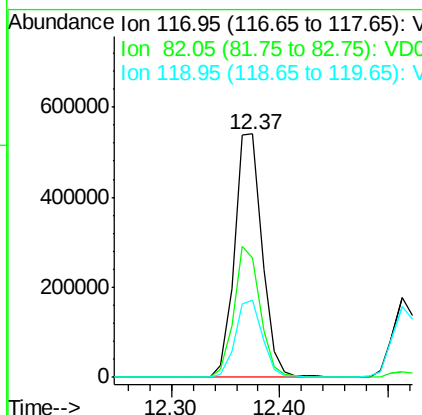
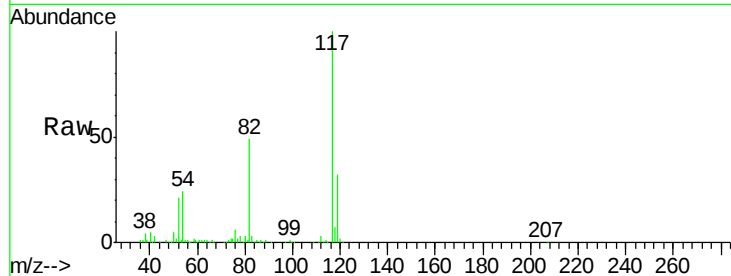




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

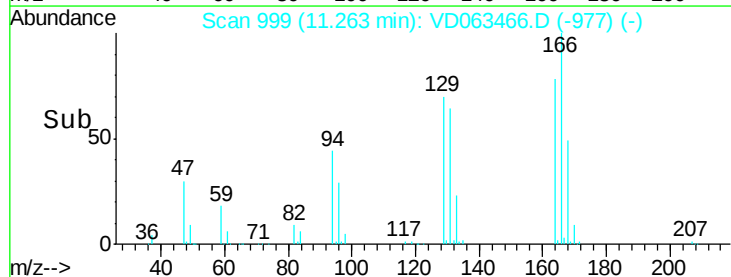
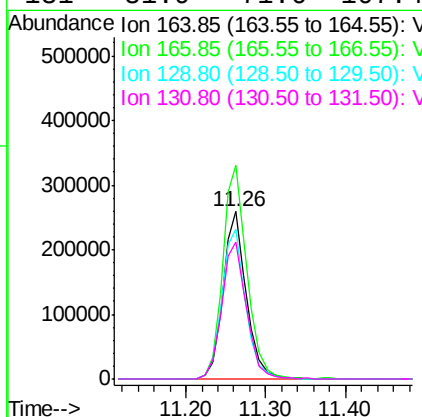
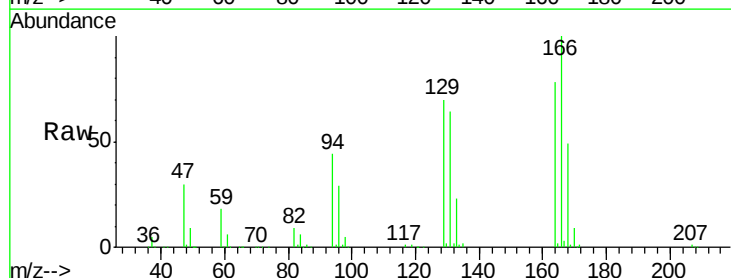
Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

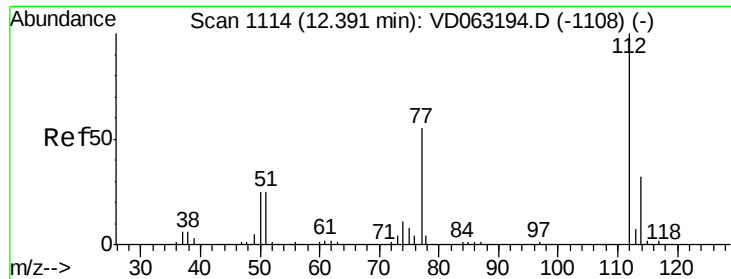
Tot Ion:117 Resp: 961375
Ion Ratio Lower Upper
117 100
82 49.2 40.1 60.1
119 31.6 26.5 39.7



#64
Tetrachloroethene
Concen: 68.998 ug/l
RT: 11.26 min Scan# 999
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion:164 Resp: 528450
Ion Ratio Lower Upper
164 100
166 127.5 104.3 156.5
129 89.6 70.9 106.3
131 81.9 71.6 107.4





#65

Chlorobenzene

Concen: 48.692 ug/l

RT: 12.40 min Scan# 1115

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

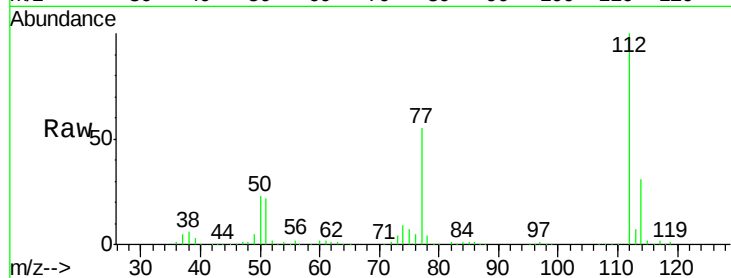
SB-05(13-14)MSD

Tot Ion:112 Resp: 900387

Ion Ratio Lower Upper

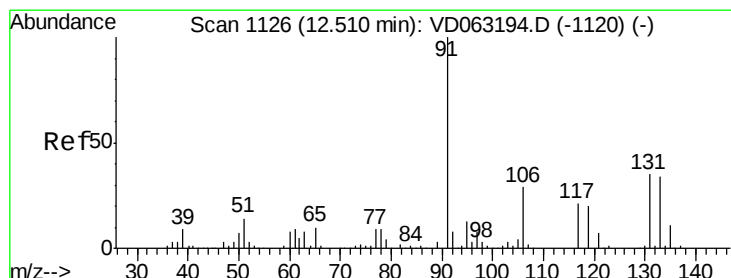
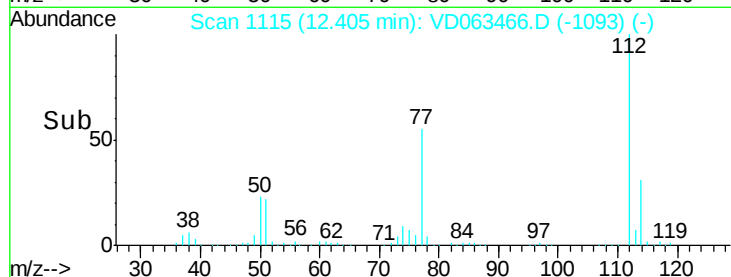
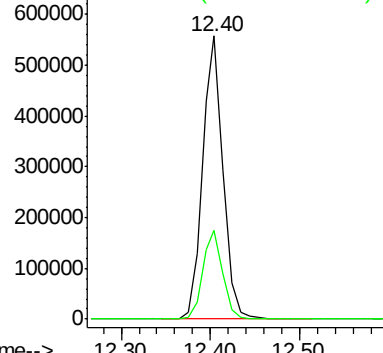
112 100

114 31.5 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 52.967 ug/l

RT: 12.51 min Scan# 1126

Delta R.T. 0.00 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

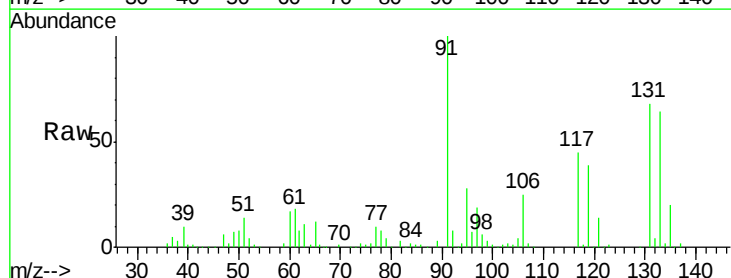
Tgt Ion:131 Resp: 431433

Ion Ratio Lower Upper

131 100

133 95.1 48.4 145.2

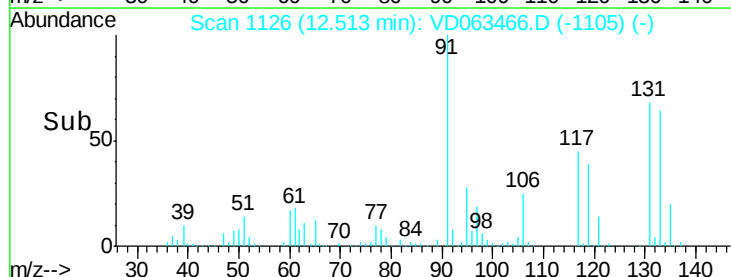
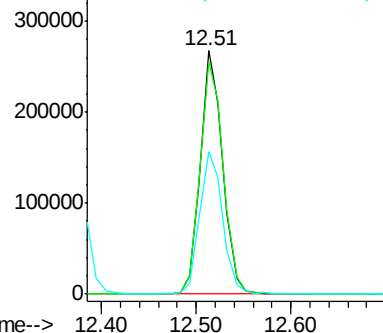
119 58.4 29.1 87.3

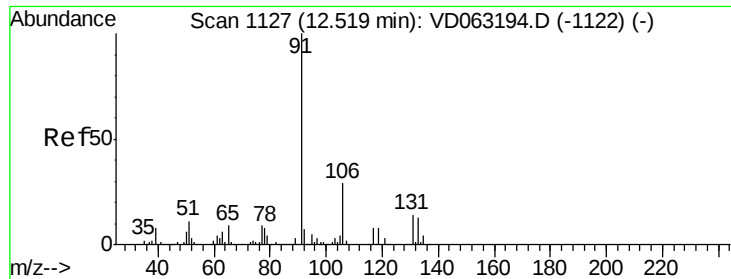


Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V

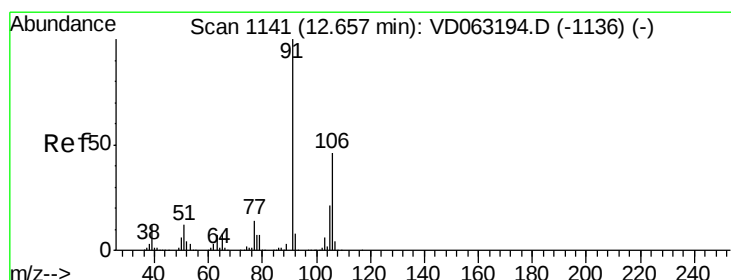
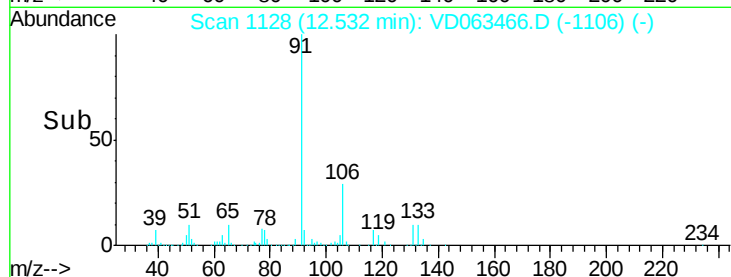
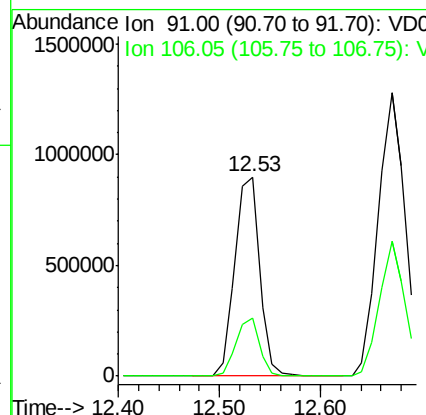
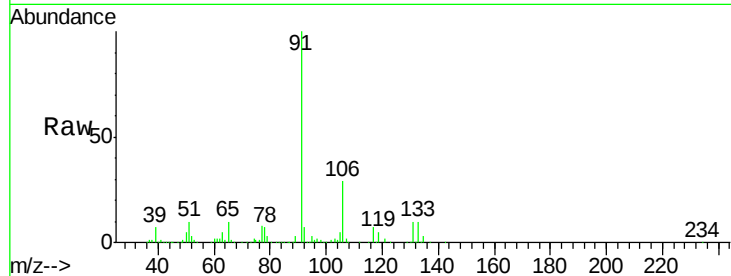




#67
Ethyl Benzene
Concen: 49.141 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

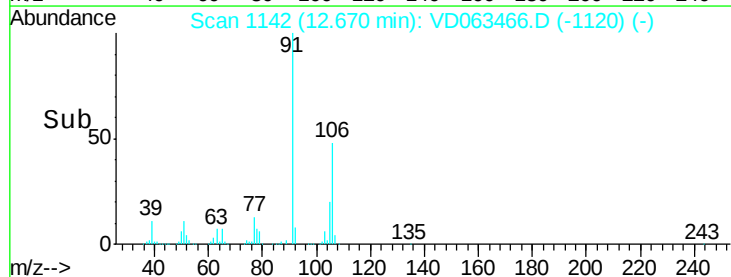
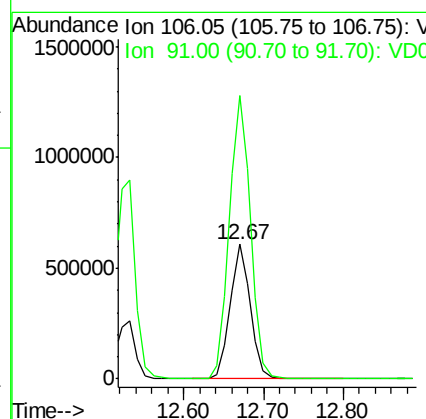
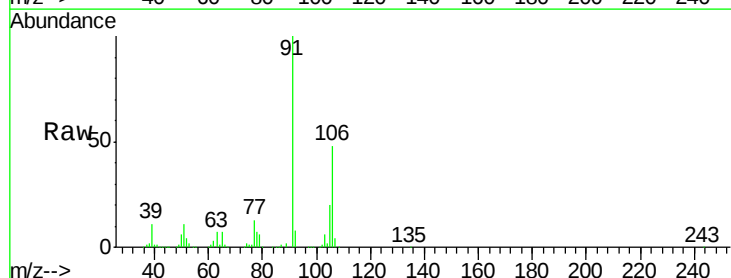
Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

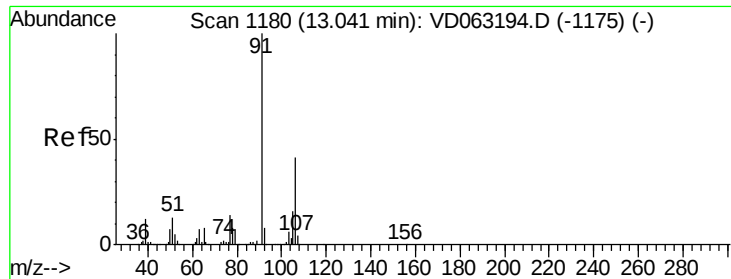
Tot Ion: 91 Resp: 1543673
Ion Ratio Lower Upper
91 100
106 29.4 22.9 34.3



#68
m/p-Xylenes
Concen: 94.192 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion: 106 Resp: 1085098
Ion Ratio Lower Upper
106 100
91 210.1 172.6 259.0

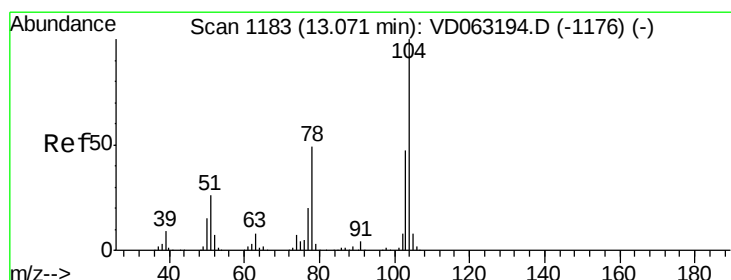
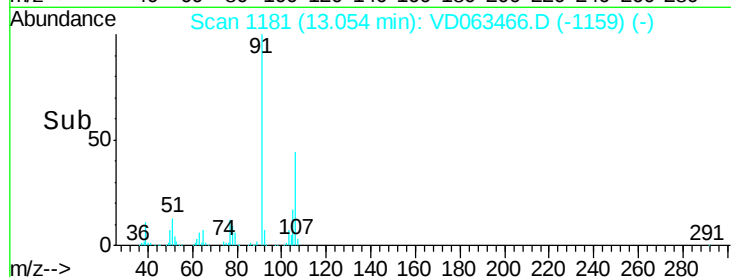
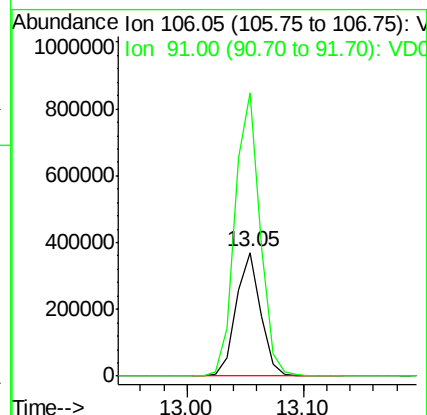
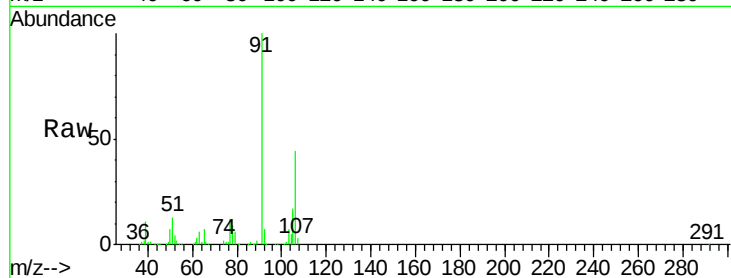




#69
o-Xylene
Concen: 51.104 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

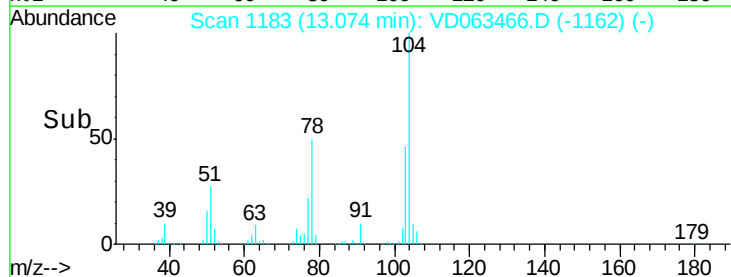
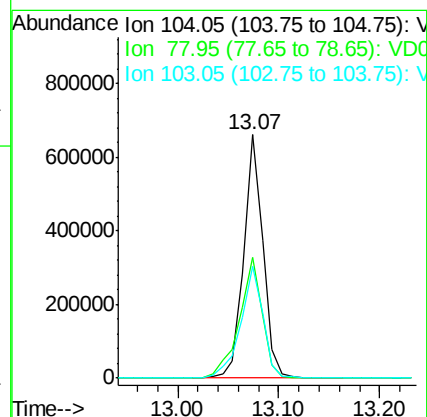
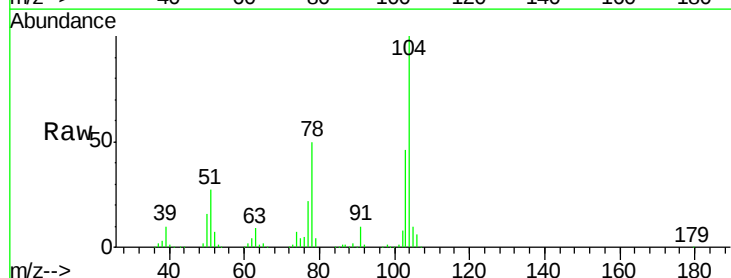
Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

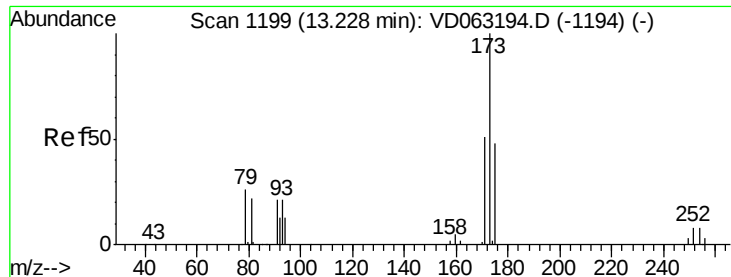
Tot Ion:106 Resp: 540626
Ion Ratio Lower Upper
106 100
91 228.5 121.3 363.9



#70
Styrene
Concen: 46.644 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion:104 Resp: 875089
Ion Ratio Lower Upper
104 100
78 49.7 39.4 59.0
103 45.8 37.4 56.2





#71

Bromoform

Concen: 49.999 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

SB-05(13-14)MSD

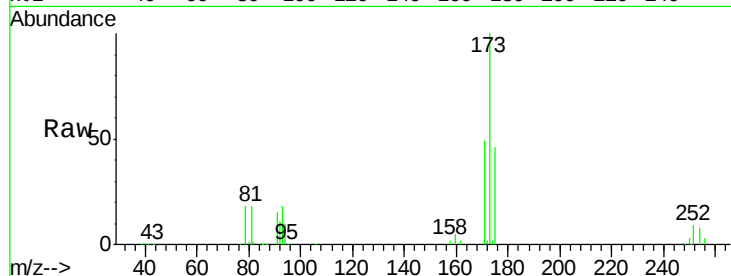
Tot Ion:173 Resp: 296163

Ion Ratio Lower Upper

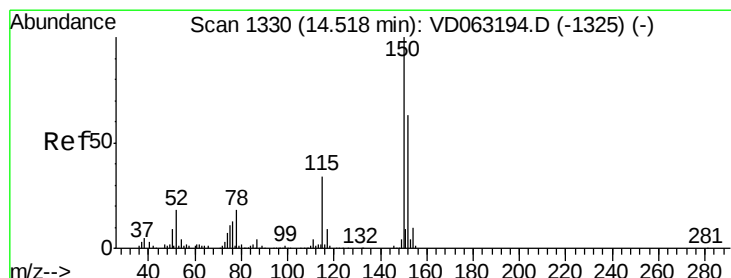
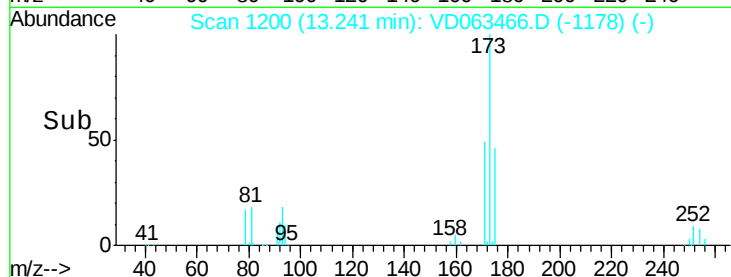
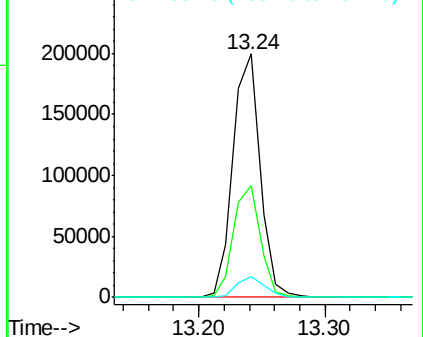
173 100

175 45.9 23.8 71.5

254 8.4 6.6 10.0



Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

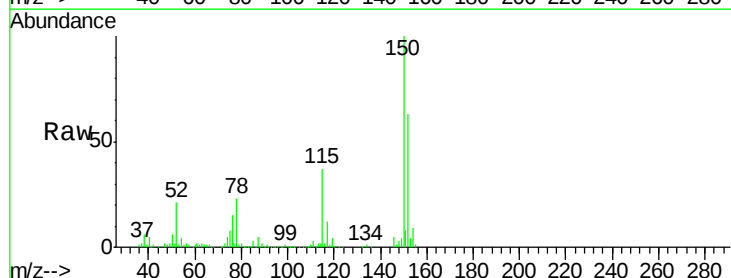
Tgt Ion:152 Resp: 408965

Ion Ratio Lower Upper

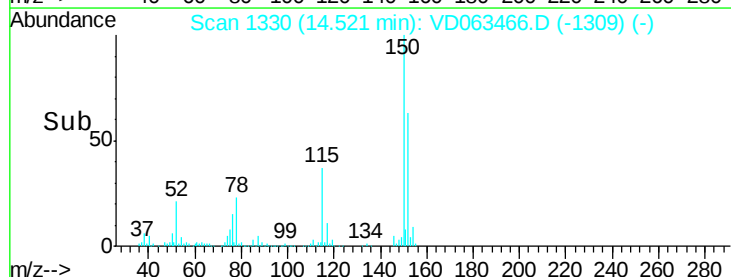
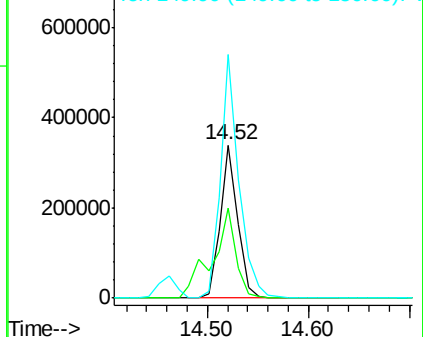
152 100

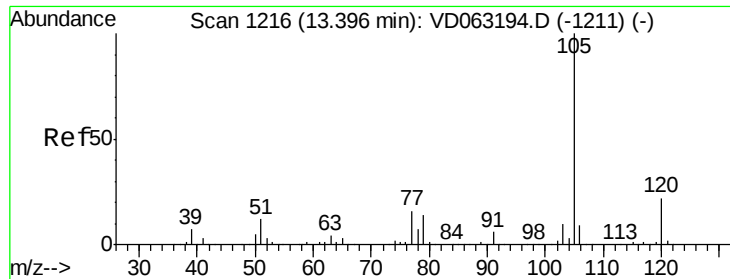
115 58.6 27.5 82.4

150 159.2 0.0 320.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V

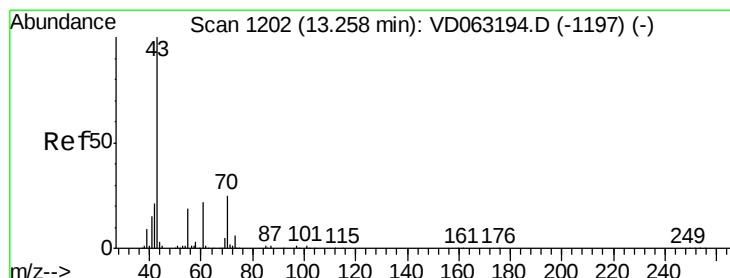
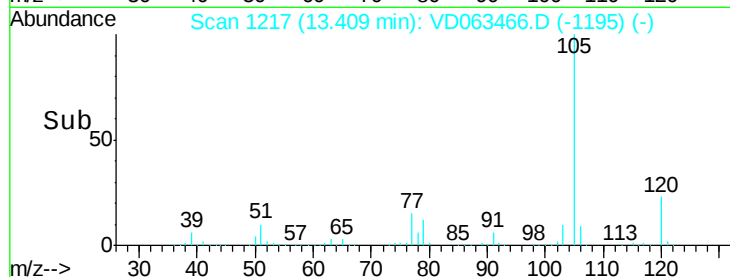
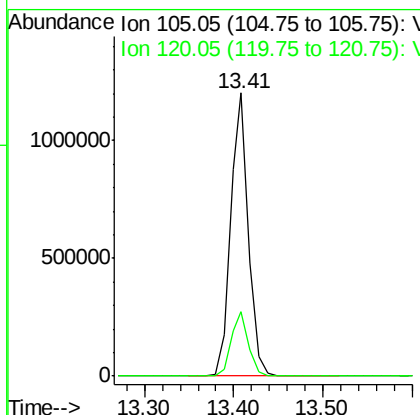
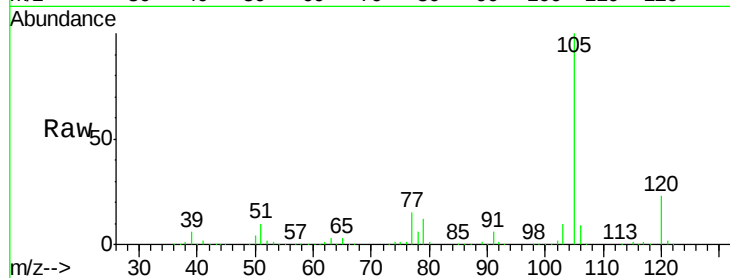




#73
Isopropylbenzene
Concen: 65.622 ug/l
RT: 13.41 min Scan# 1217
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

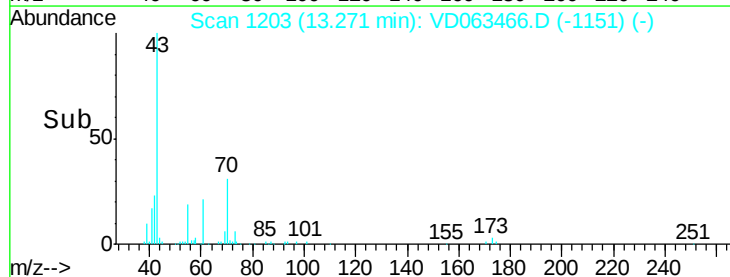
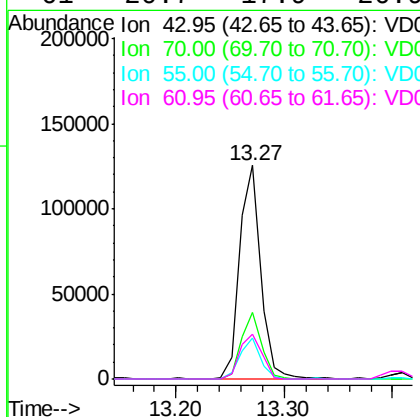
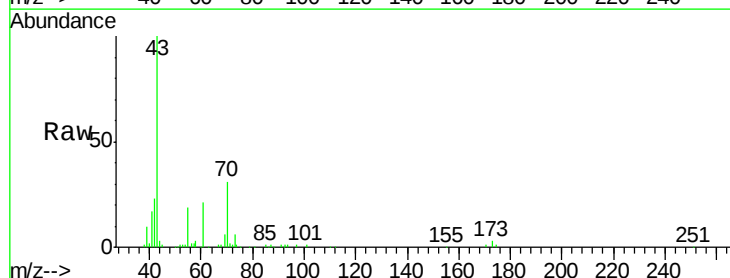
Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

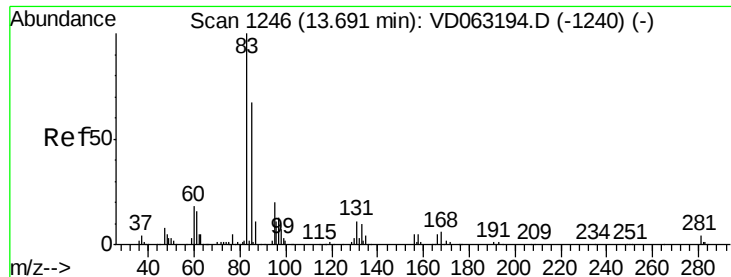
Tot Ion:105 Resp: 1684370
Ion Ratio Lower Upper
105 100
120 22.9 11.1 33.3



#74
N-ethyl acetate
Concen: 25.133 ug/l
RT: 13.27 min Scan# 1203
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion: 43 Resp: 170543
Ion Ratio Lower Upper
43 100
70 31.0 20.2 30.4#
55 19.4 14.9 22.3
61 20.7 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 63.696 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

SB-05(13-14)MSD

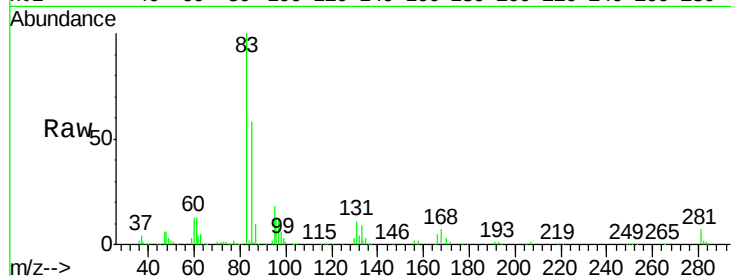
Tot Ion: 83 Resp: 277719

Ion Ratio Lower Upper

83 100

131 10.7 5.5 16.7

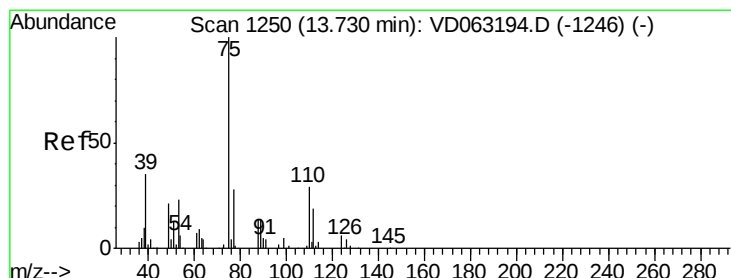
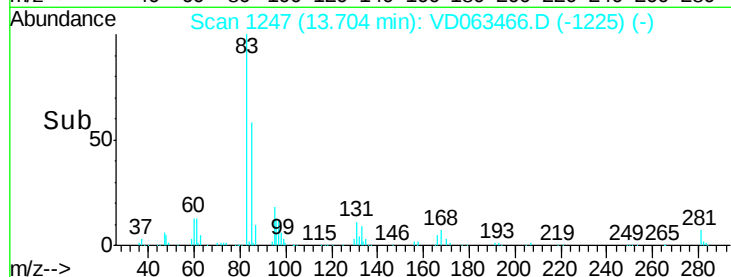
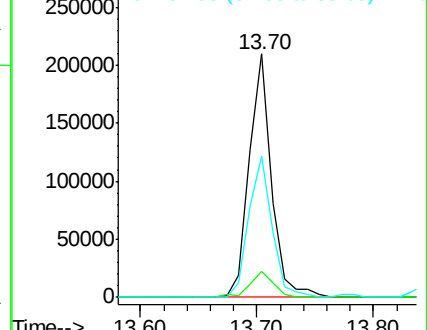
85 58.0 33.7 101.1



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 55.112 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VD063466.D

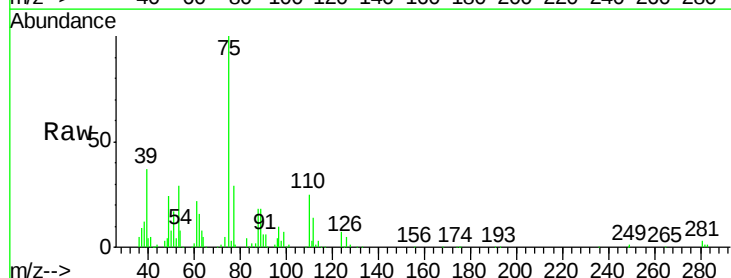
Acq: 9 Aug 2019 5:42

Tgt Ion: 75 Resp: 270720

Ion Ratio Lower Upper

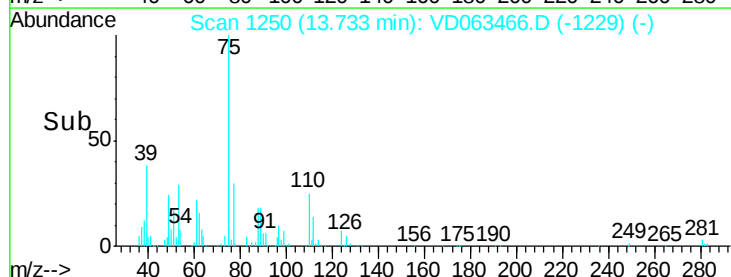
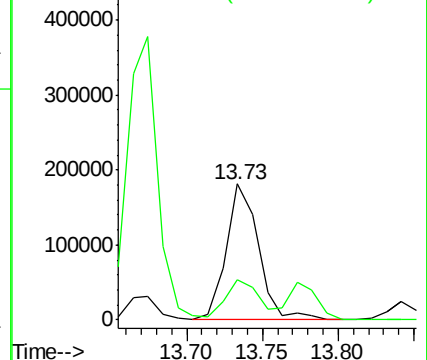
75 100

77 29.5 16.0 48.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

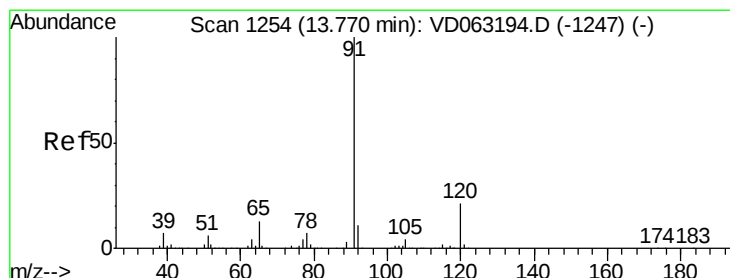
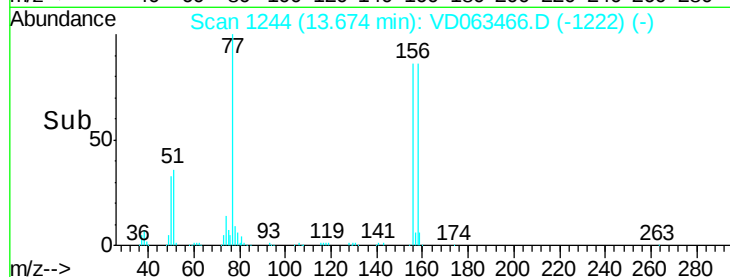
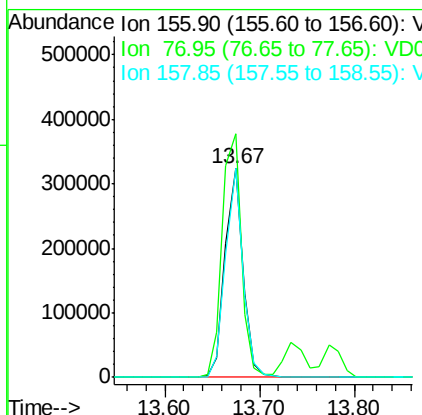
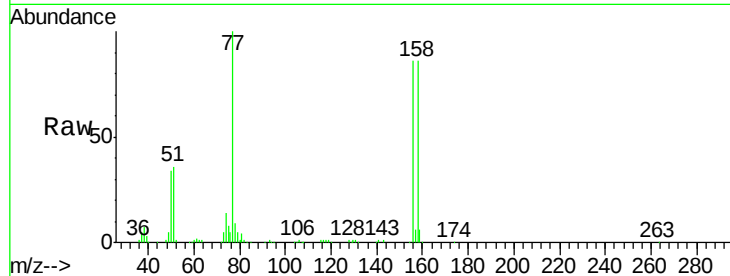




#77
Bromobenzene
Concen: 58.420 ug/l
RT: 13.67 min Scan# 1244
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

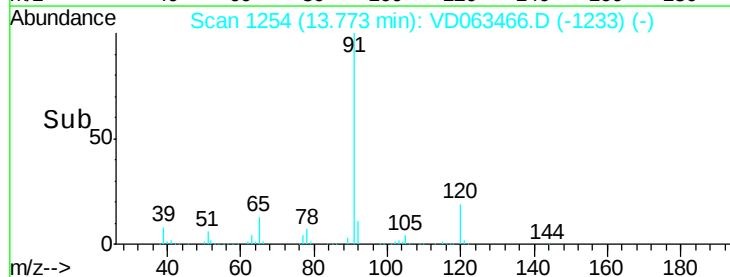
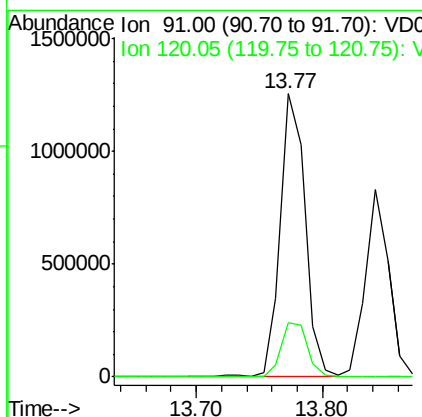
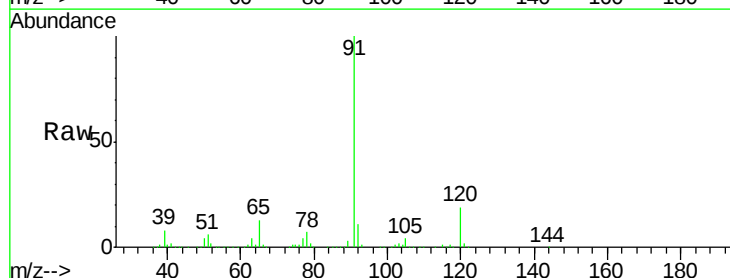
Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

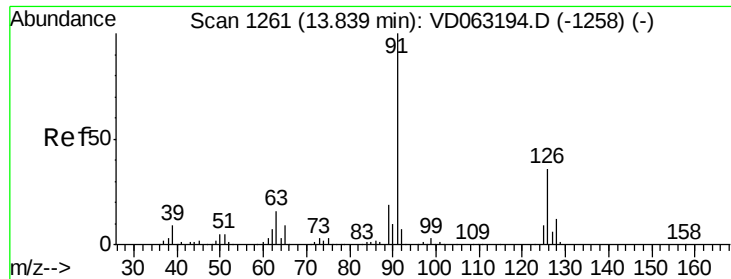
Tot Ion:156 Resp: 427168
Ion Ratio Lower Upper
156 100
77 116.5 67.6 202.8
158 99.8 49.8 149.4



#78
n-propylbenzene
Concen: 56.848 ug/l
RT: 13.77 min Scan# 1254
Delta R.T. 0.00 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion: 91 Resp: 1736458
Ion Ratio Lower Upper
91 100
120 19.4 10.7 32.1

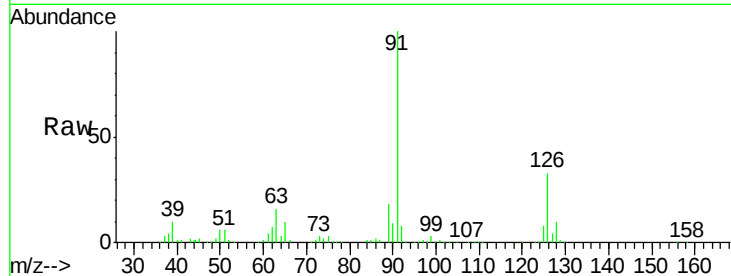




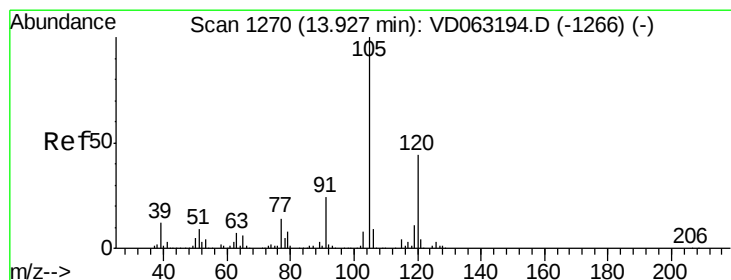
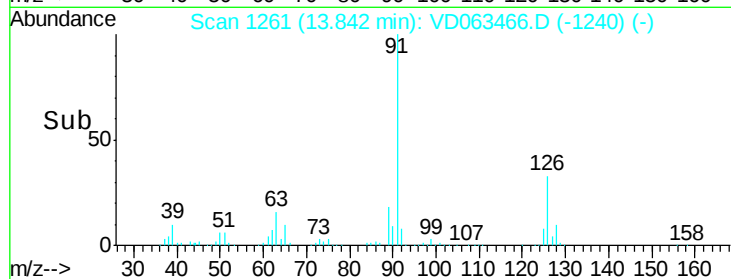
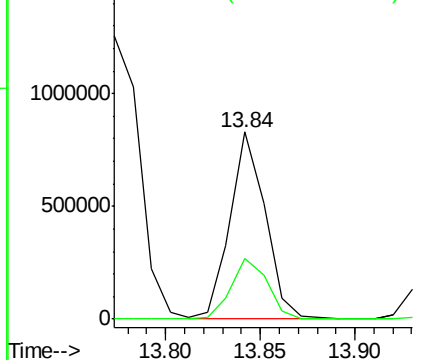
#79
 2-Chlorotoluene
 Concen: 59.999 ug/l
 RT: 13.84 min Scan# 1261
 Delta R.T. 0.00 min
 Lab File: VD063466.D
 Acq: 9 Aug 2019 5:42

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-05(13-14)MSD

Tot Ion: 91 Resp: 1061919
 Ion Ratio Lower Upper
 91 100
 126 32.7 17.8 53.5

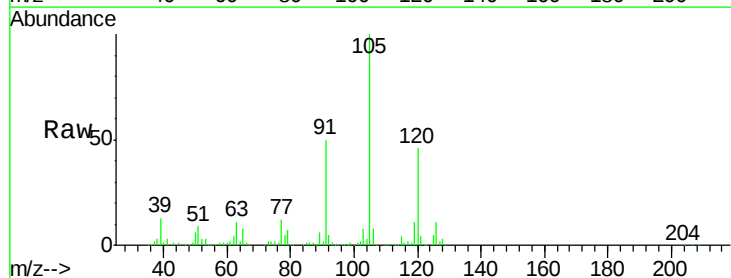


Abundance Ion 91.00 (90.70 to 91.70): VD063194.D (-1258) (-)
 Ion 125.95 (125.65 to 126.65): VD063194.D (-1258) (-)

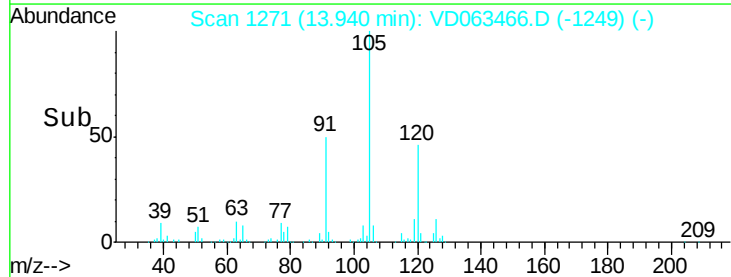
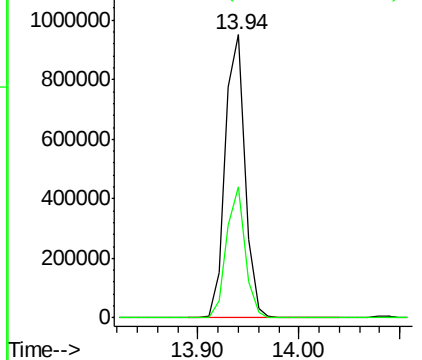


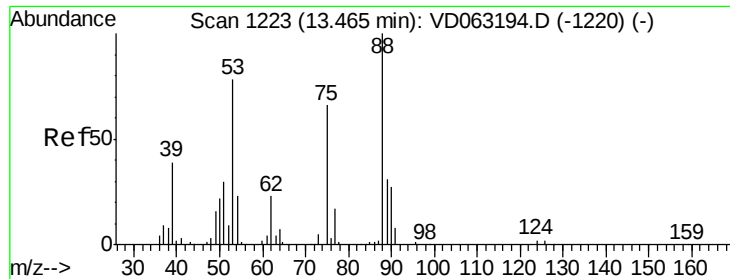
#80
 1,3,5-Trimethylbenzene
 Concen: 58.528 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. 0.01 min
 Lab File: VD063466.D
 Acq: 9 Aug 2019 5:42

Tgt Ion: 105 Resp: 1295724
 Ion Ratio Lower Upper
 105 100
 120 46.3 22.1 66.1



Abundance Ion 105.05 (104.75 to 105.75): VD063194.D (-1266) (-)
 Ion 120.05 (119.75 to 120.75): VD063194.D (-1266) (-)

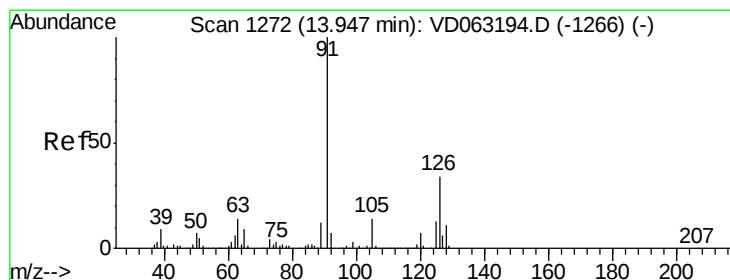
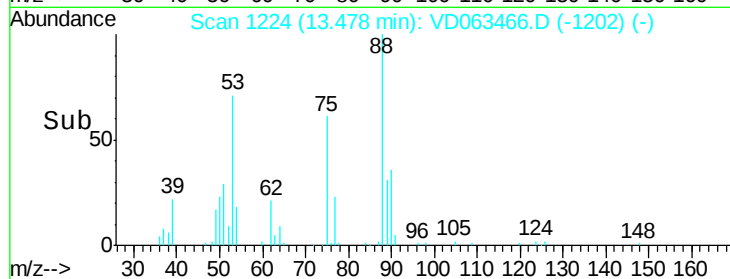
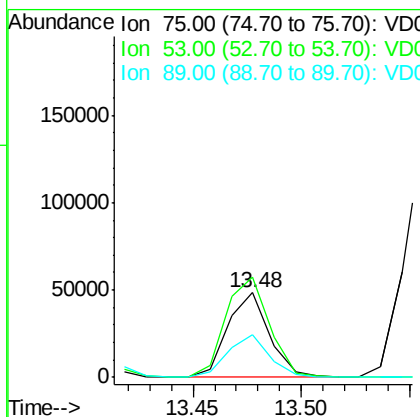
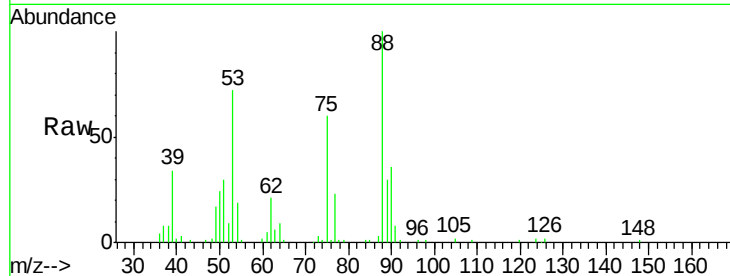




#81
trans-1,4-Dichloro-2-butene
Concen: 47.618 ug/l
RT: 13.48 min Scan# 1224
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

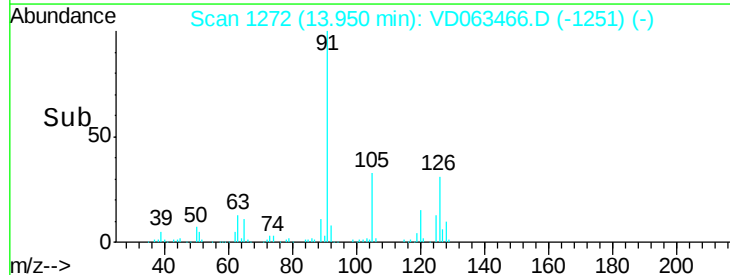
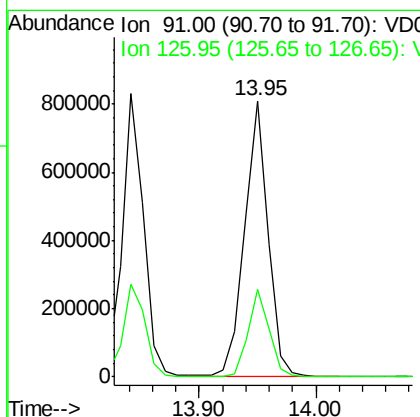
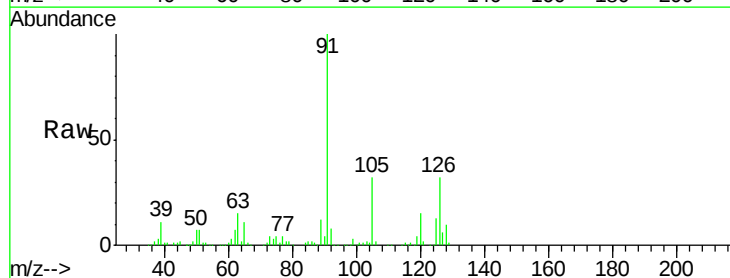
Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

Tot Ion: 75 Resp: 64952
Ion Ratio Lower Upper
75 100
53 119.2 94.9 142.3
89 50.3 37.4 56.0



#82
4-Chlorotoluene
Concen: 54.191 ug/l
RT: 13.95 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion: 91 Resp: 1128768
Ion Ratio Lower Upper
91 100
126 31.7 17.1 51.2





#83

tert-Butylbenzene

Concen: 51.392 ug/l

RT: 14.20 min Scan# 1297

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

SB-05(13-14)MSD

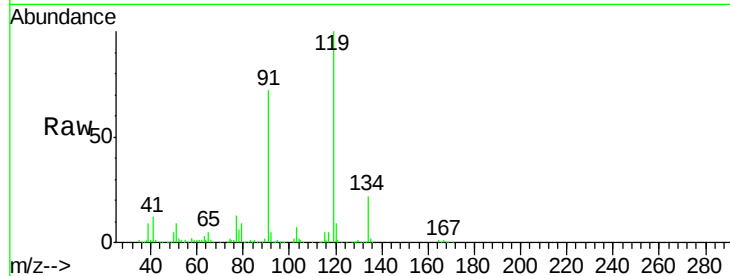
Tot Ion:119 Resp: 1299083

Ion Ratio Lower Upper

119 100

91 72.3 39.1 117.5

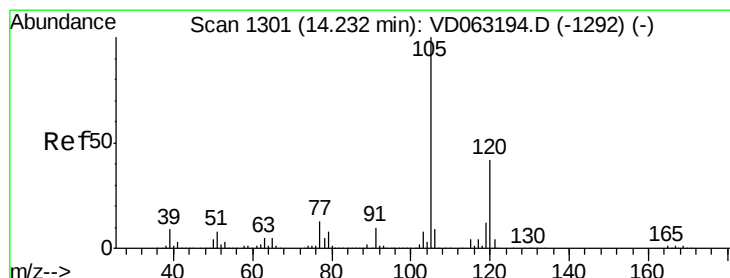
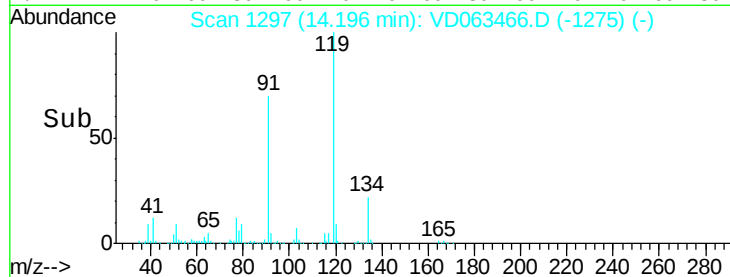
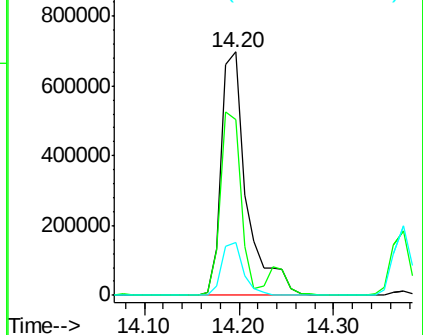
134 21.7 10.9 32.6



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 46.153 ug/l

RT: 14.24 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VD063466.D

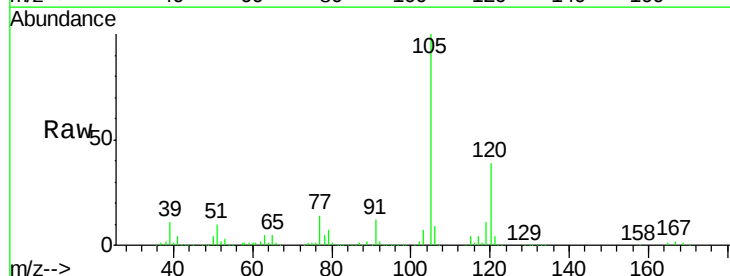
Acq: 9 Aug 2019 5:42

Tgt Ion:105 Resp: 1056844

Ion Ratio Lower Upper

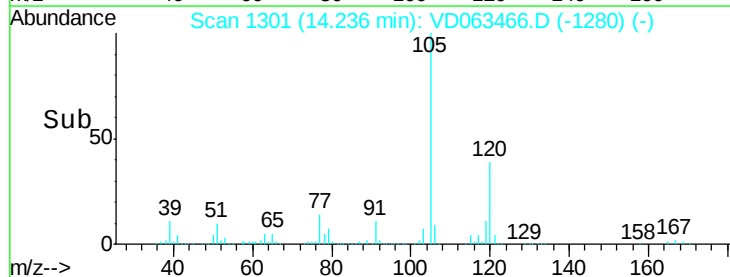
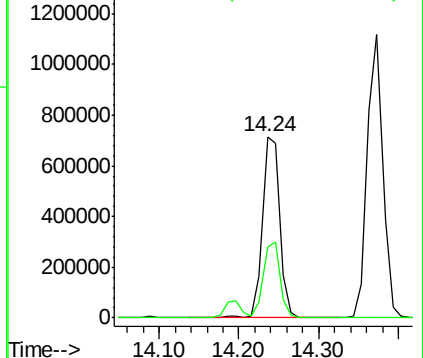
105 100

120 39.3 20.9 62.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 55.574 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. 0.01 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

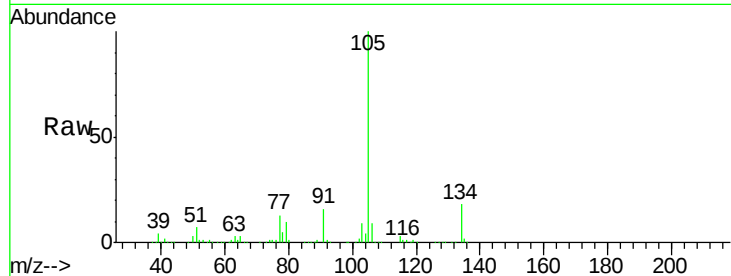
SB-05(13-14)MSD

Tot Ion:105 Resp: 1480080

Ion Ratio Lower Upper

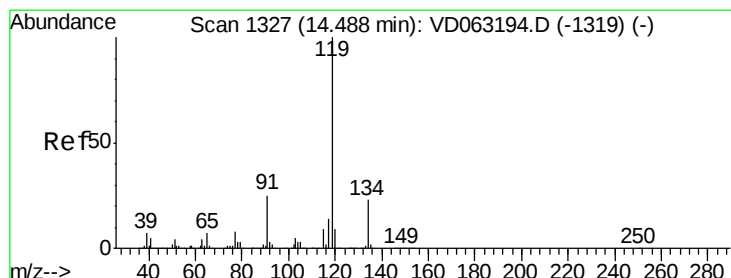
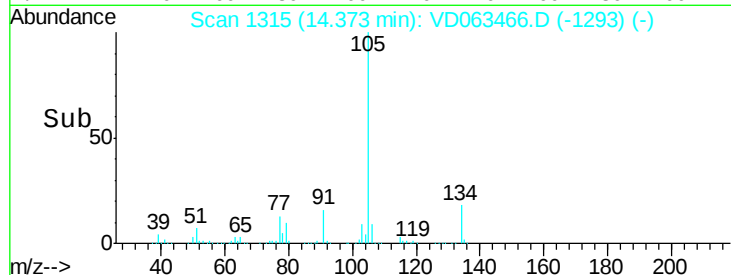
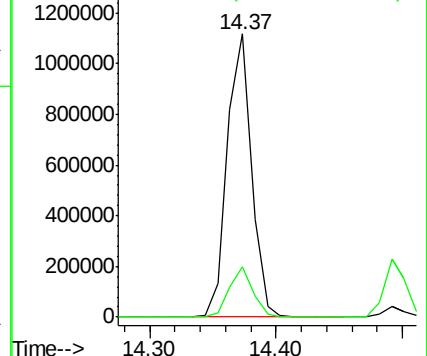
105 100

134 18.0 8.3 24.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 49.784 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. 0.00 min

Lab File: VD063466.D

Acq: 9 Aug 2019 5:42

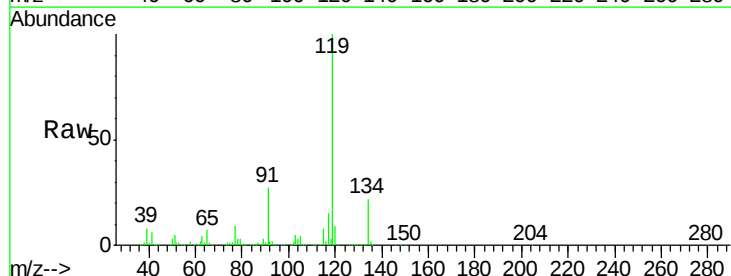
Tgt Ion:119 Resp: 1265466

Ion Ratio Lower Upper

119 100

134 22.0 11.5 34.5

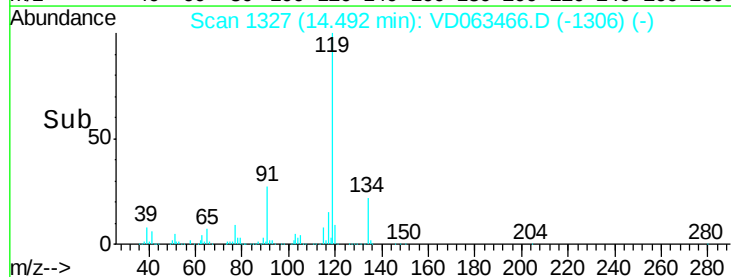
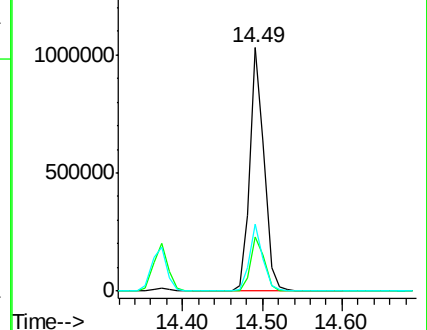
91 27.5 12.6 37.6

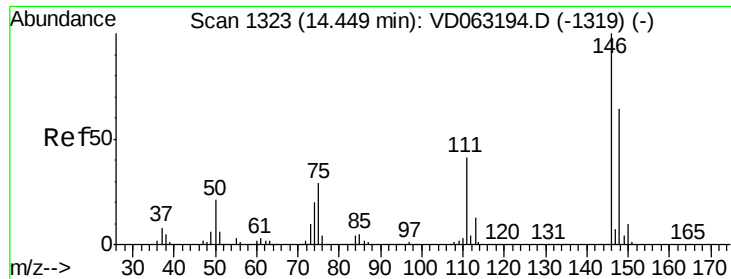


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

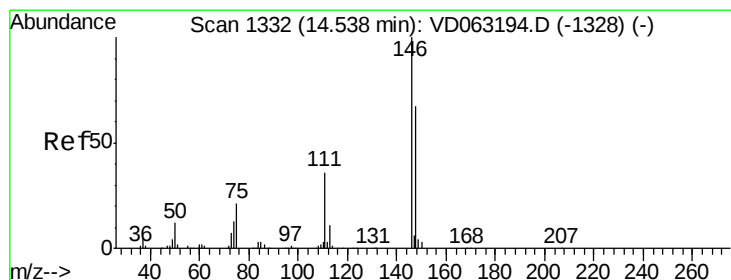
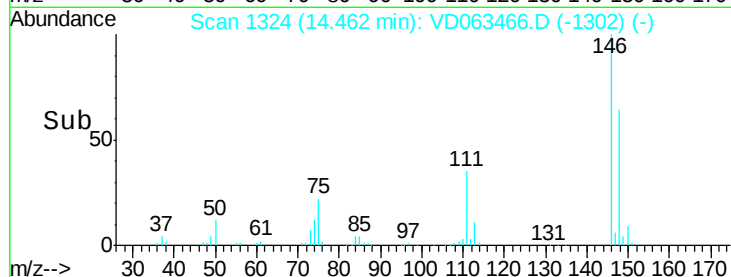
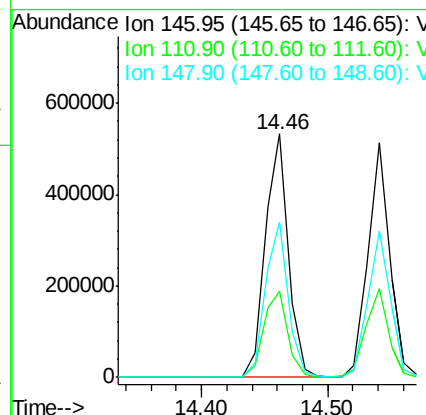
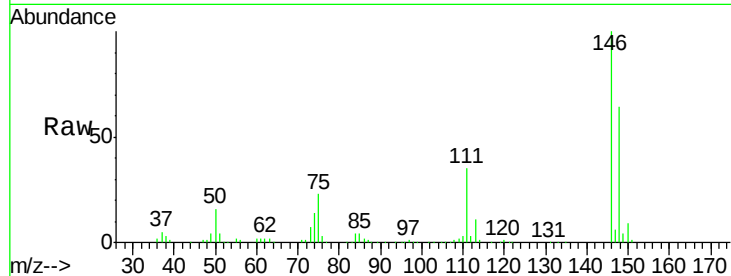




#87
 1,3-Dichlorobenzene
 Concen: 52.286 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.01 min
 Lab File: VD063466.D
 Acq: 9 Aug 2019 5:42

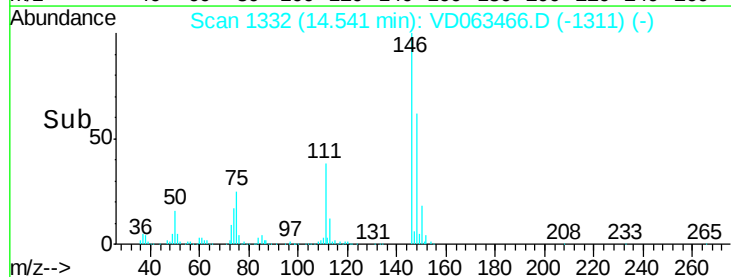
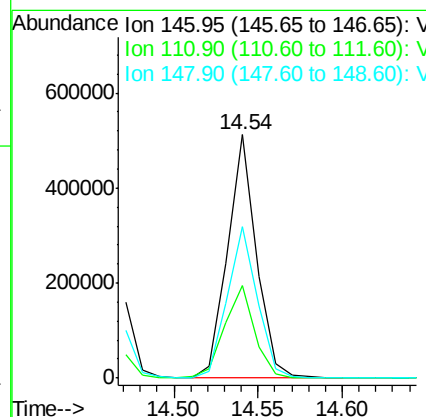
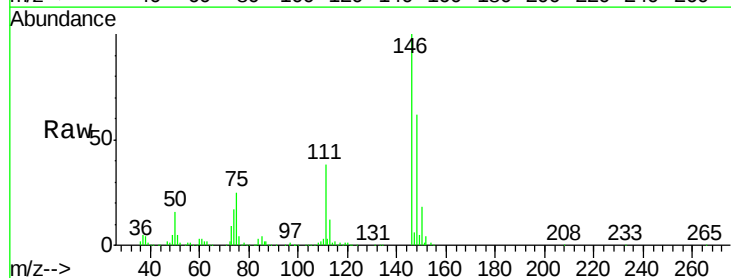
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-05(13-14)MSD

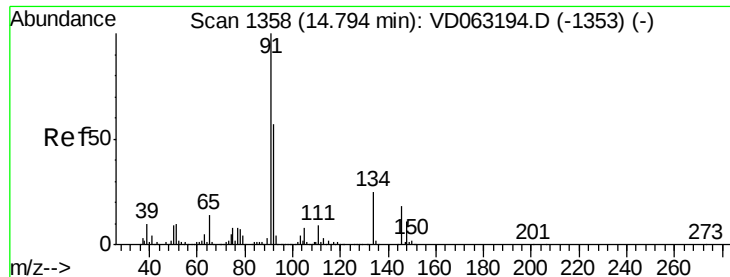
Tot Ion:146 Resp: 677055
 Ion Ratio Lower Upper
 146 100
 111 35.2 20.4 61.3
 148 63.8 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 46.616 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. 0.00 min
 Lab File: VD063466.D
 Acq: 9 Aug 2019 5:42

Tgt Ion:146 Resp: 610396
 Ion Ratio Lower Upper
 146 100
 111 37.8 18.1 54.3
 148 62.4 33.4 100.1

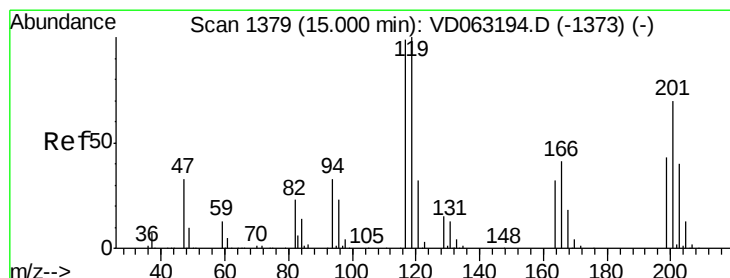
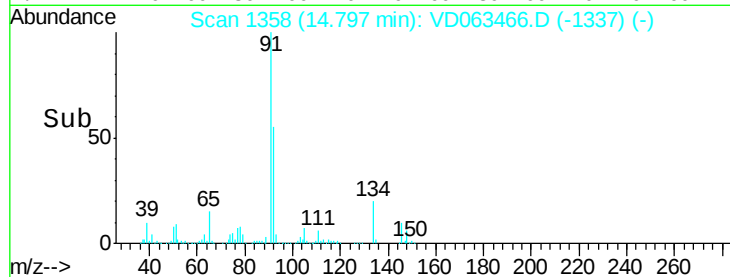
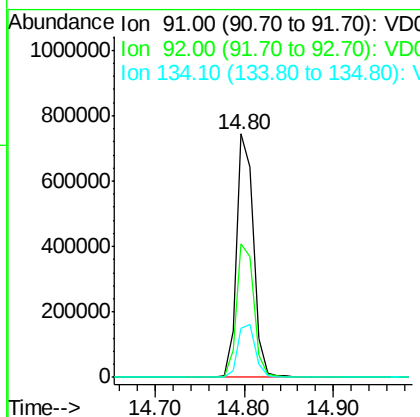
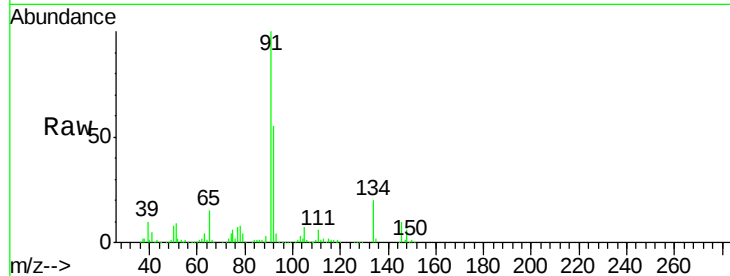




#89
n-Butylbenzene
Concen: 45.444 ug/l
RT: 14.80 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

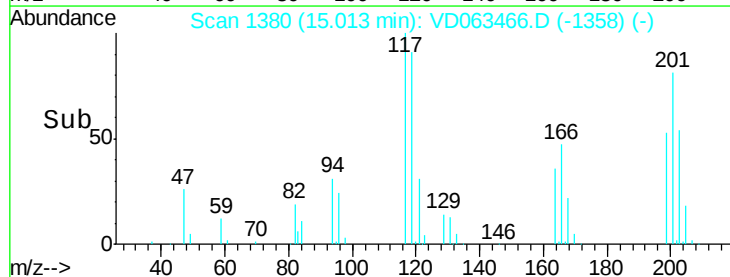
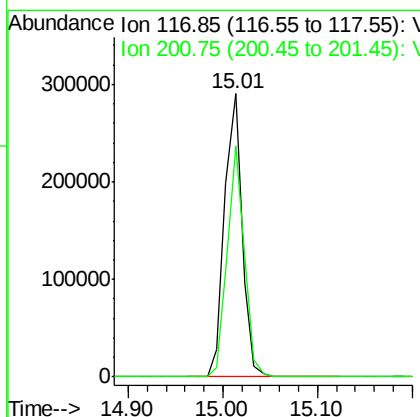
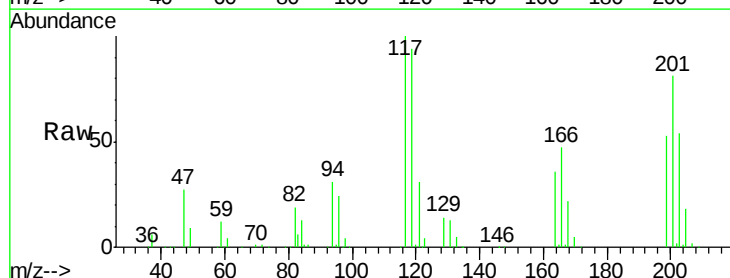
Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

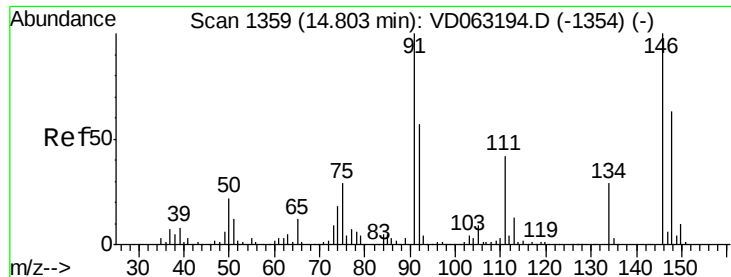
Tot Ion: 91 Resp: 997683
Ion Ratio Lower Upper
91 100
92 54.7 28.3 85.0
134 20.0 12.3 36.8



#90
Hexachloroethane
Concen: 56.272 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. 0.01 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion: 117 Resp: 372668
Ion Ratio Lower Upper
117 100
201 81.5 35.2 105.6

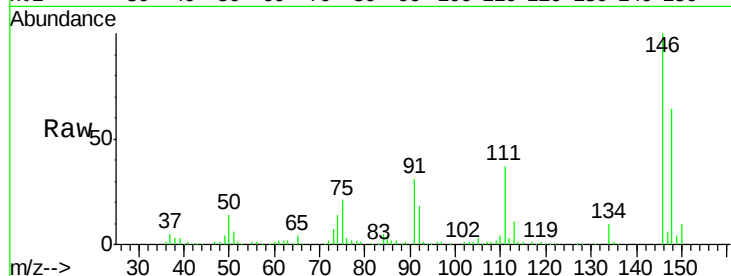




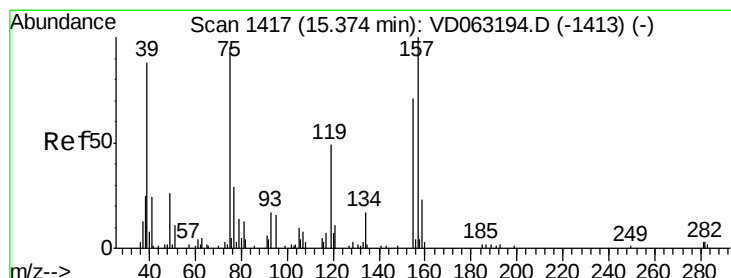
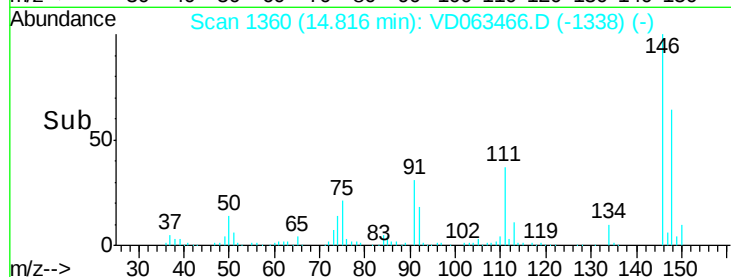
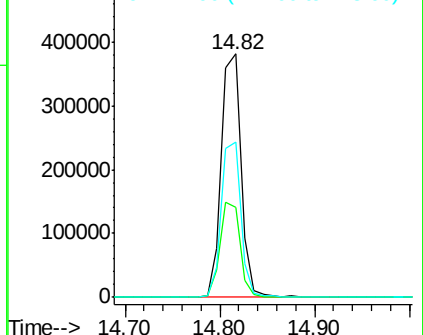
#91
 1,2-Dichlorobenzene
 Concen: 49.040 ug/l
 RT: 14.82 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD063466.D
 Acq: 9 Aug 2019 5:42

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-05(13-14)MSD

Tot Ion:146 Resp: 553279
 Ion Ratio Lower Upper
 146 100
 111 36.8 21.1 63.3
 148 64.0 31.6 94.8

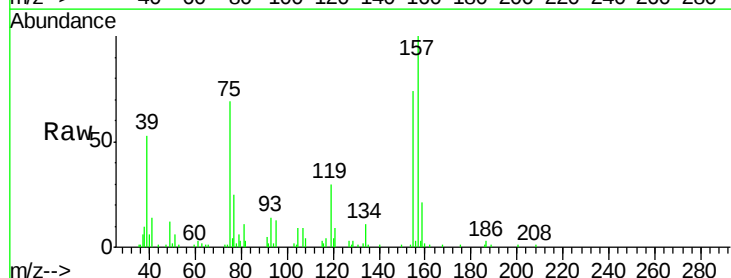


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

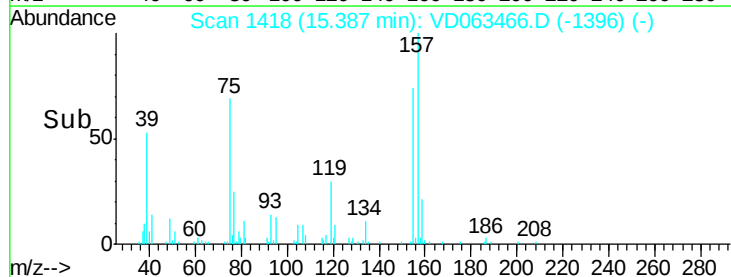
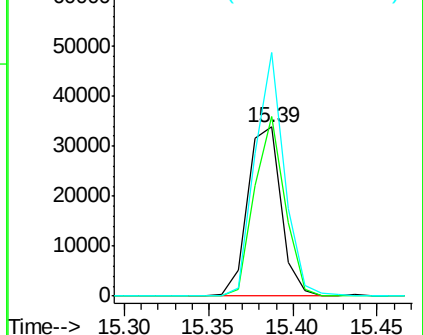


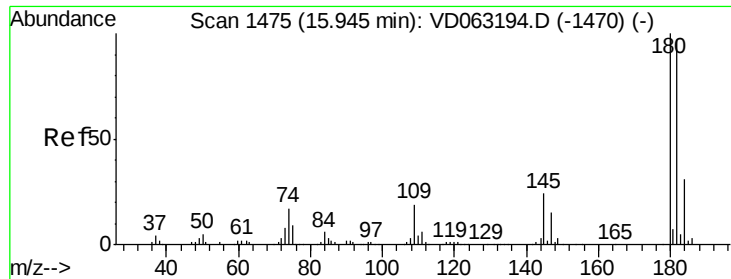
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 52.347 ug/l
 RT: 15.39 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VD063466.D
 Acq: 9 Aug 2019 5:42

Tgt Ion: 75 Resp: 46490
 Ion Ratio Lower Upper
 75 100
 155 106.2 37.0 111.0
 157 144.2 52.4 157.2



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

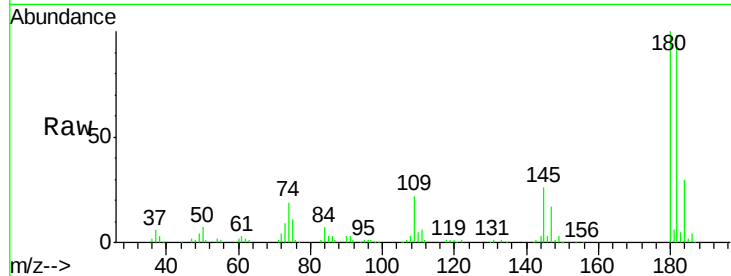




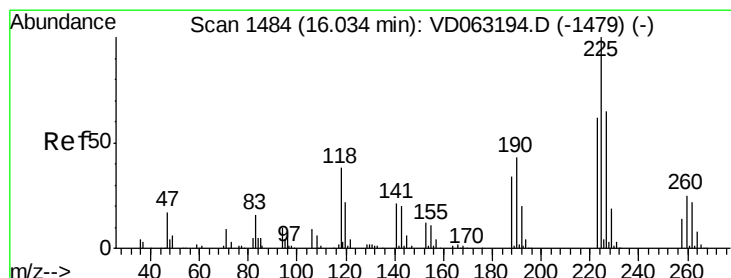
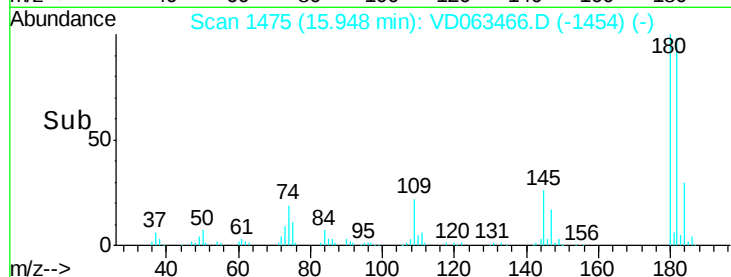
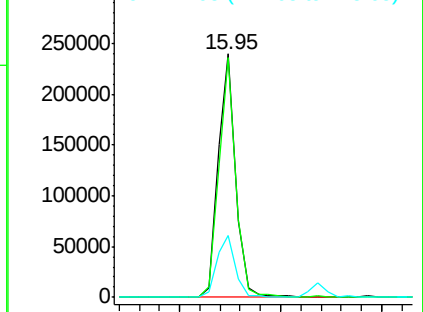
#93
 1,2,4-Trichlorobenzene
 Concen: 32.569 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD063466.D
 Acq: 9 Aug 2019 5:42

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-05(13-14)MSD

Tot Ion:180 Resp: 291504
 Ion Ratio Lower Upper
 180 100
 182 98.3 48.6 145.8
 145 25.6 12.2 36.6

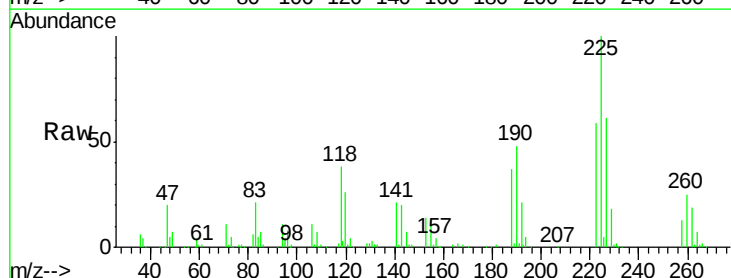


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

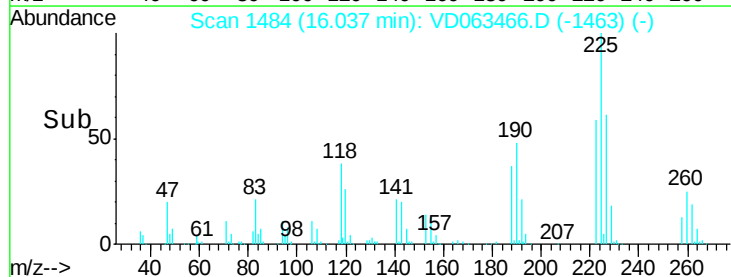
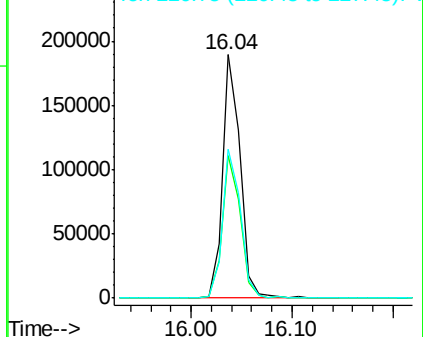


#94
 Hexachlorobutadiene
 Concen: 35.697 ug/l
 RT: 16.04 min Scan# 1484
 Delta R.T. 0.00 min
 Lab File: VD063466.D
 Acq: 9 Aug 2019 5:42

Tgt Ion:225 Resp: 231534
 Ion Ratio Lower Upper
 225 100
 223 58.7 30.9 92.5
 227 61.3 32.6 97.7



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V

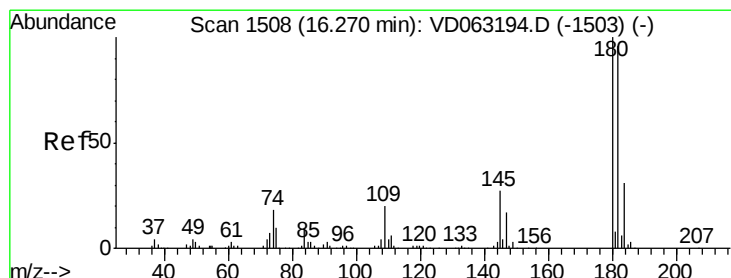
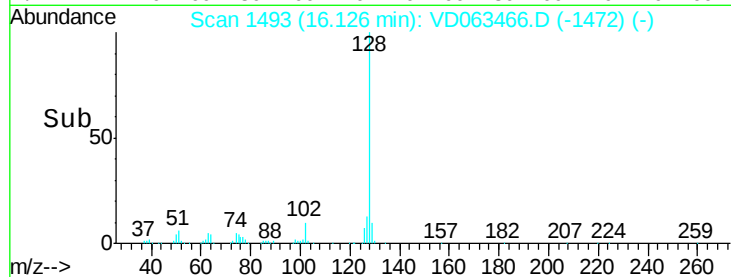
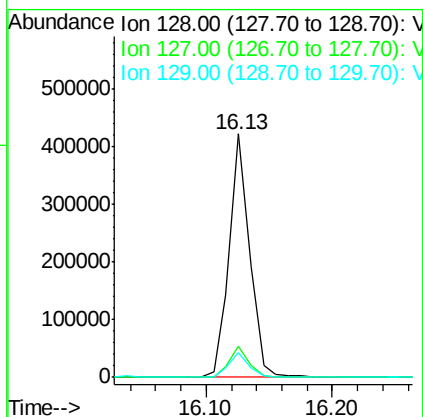
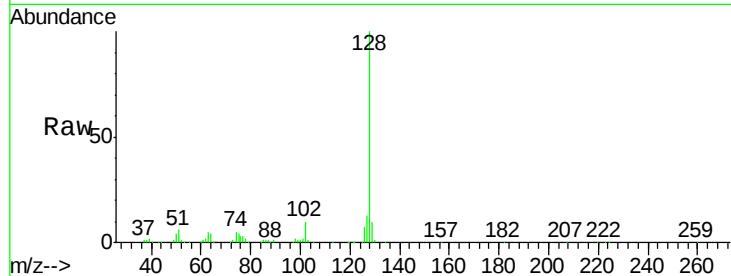




#95
Naphthalene
Concen: 37.567 ug/l
RT: 16.13 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Instrument :
MSVOA_D
ClientSampleId :
SB-05(13-14)MSD

Tot Ion:128 Resp: 475236
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.4
129 9.9 7.8 11.8



#96
1,2,3-Trichlorobenzene
Concen: 36.675 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VD063466.D
Acq: 9 Aug 2019 5:42

Tgt Ion:180 Resp: 259313
Ion Ratio Lower Upper
180 100
182 95.3 48.3 144.9
145 28.3 13.6 40.7

