

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061321.D
 Acq On : 26 Mar 2019 2:26
 Operator : VA/AP
 Sample : K2045-03MSD
 Misc : 6.04g/5ml/MSVOA D/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Quant Time: Mar 26 04:32:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 03:31:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	532392	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	947875	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.37	117	718861	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	299637	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	281595	61.31	ug/l	0.00
Spiked Amount						
			Recovery	=	122.62%	
35) Dibromofluoromethane	6.92	113	454680	62.69	ug/l	-0.01
Spiked Amount						
			Recovery	=	125.38%	
50) Toluene-d8	10.41	98	1055475	60.01	ug/l	0.00
Spiked Amount						
			Recovery	=	120.02%	
62) 4-Bromofluorobenzene	13.55	95	357389	52.09	ug/l	0.00
Spiked Amount						
			Recovery	=	104.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	322675	59.280	ug/l	95
3) Chloromethane	1.77	50	269130	63.381	ug/l	98
4) Vinyl Chloride	1.86	62	259635	65.395	ug/l	98
5) Bromomethane	2.16	94	45650	56.650	ug/l	96
6) Chloroethane	2.28	64	88089	70.526	ug/l	99
7) Trichlorofluoromethane	2.54	101	376777	64.202	ug/l	99
8) Diethyl Ether	2.88	74	124689	71.457	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.16	101	354256	59.306	ug/l	96
10) Methyl Iodide	3.32	142	626567	75.082	ug/l	99
11) Tert butyl alcohol	4.07	59	84072	343.830	ug/l #	90
12) 1,1-Dichloroethene	3.13	96	331506	64.497	ug/l	100
13) Acrolein	3.05	56	37976	141.889	ug/l	98
14) Allyl chloride	3.63	41	484100	66.394	ug/l	97
15) Acrylonitrile	4.21	53	322326	374.833	ug/l	95
16) Acetone	3.23	43	520409	473.660	ug/l	93
17) Carbon Disulfide	3.39	76	1049366	61.473	ug/l	100
18) Methyl Acetate	3.65	43	244869	117.910	ug/l	98
19) Methyl tert-butyl Ether	4.24	73	648173	71.607	ug/l	98
20) Methylene Chloride	3.82	84	412175	66.098	ug/l	99
21) trans-1,2-Dichloroethene	4.23	96	379356	65.974	ug/l	96
22) Diisopropyl ether	5.12	45	1147377	74.700	ug/l	93
23) Vinyl Acetate	5.06	43	1788786	218.051	ug/l	99
24) 1,1-Dichloroethane	4.98	63	598056	66.816	ug/l	100
25) 2-Butanone	6.07	43	519494	408.794	ug/l	98
26) 2,2-Dichloropropane	6.03	77	453593	59.681	ug/l	97
27) cis-1,2-Dichloroethene	6.05	96	433221	70.012	ug/l	97
28) Bromochloromethane	6.44	49	253606	67.692	ug/l	100
29) Tetrahydrofuran	6.45	42	260603	411.995	ug/l	99
30) Chloroform	6.67	83	660444	69.242	ug/l	99
31) Cyclohexane	6.96	56	444090	61.129	ug/l	98
32) 1,1,1-Trichloroethane	6.87	97	517044	61.206	ug/l	96
36) 1,1-Dichloropropene	7.15	75	441926	56.985	ug/l	99
37) Ethyl Acetate	6.19	43	198446	61.264	ug/l	95
38) Carbon Tetrachloride	7.11	117	555785	62.705	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	411412	51.223	ug/l	97
40) Benzene	7.46	78	1222666	63.481	ug/l	98
41) Methacrylonitrile	6.44	41	275261	73.128	ug/l #	94
42) 1,2-Dichloroethane	7.58	62	367863	61.284	ug/l	97
43) Isopropyl Acetate	9.24	43	278212	59.568	ug/l #	99
44) Trichloroethene	8.54	130	441221	63.343	ug/l	96
45) 1,2-Dichloropropane	8.94	63	325199	68.411	ug/l	99
46) Dibromomethane	9.06	93	219290	67.300	ug/l	99
47) Bromodichloromethane	9.38	83	503328	65.904	ug/l	98
48) Methyl methacrylate	9.12	41	177969	71.392	ug/l	97
49) 1,4-Dioxane	9.08	88	40652	1486.294	ug/l	97
51) 4-Methyl-2-Pentanone	10.30	43	1019656	366.739	ug/l	98
52) Toluene	10.51	92	775929	65.841	ug/l	100
53) t-1,3-Dichloropropene	10.91	75	421087	63.443	ug/l	98
54) cis-1,3-Dichloropropene	10.03	75	512420	63.225	ug/l	97
55) 1,1,2-Trichloroethane	11.19	97	258734	66.129	ug/l	98
56) Ethyl methacrylate	11.04	69	300277	71.922	ug/l	99
57) 1,3-Dichloropropane	11.40	76	386531	65.414	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.86	63	716325	329.797	ug/l	99
59) 2-Hexanone	11.53	43	750650	371.733	ug/l	99
60) Dibromochloromethane	11.68	129	401858	65.577	ug/l	99
61) 1,2-Dibromoethane	11.81	107	304289	66.562	ug/l	98
64) Tetrachloroethene	11.26	164	335212	67.692	ug/l	98
65) Chlorobenzene	12.40	112	947722	71.576	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.51	131	370733	72.218	ug/l	99
67) Ethyl Benzene	12.53	91	1319889	65.136	ug/l	100
68) m/p-Xylenes	12.67	106	925191	116.965	ug/l	97
69) o-Xylene	13.05	106	484106	65.989	ug/l	98
70) Styrene	13.07	104	802157	64.428	ug/l	99
71) Bromoform	13.23	173	241420	76.851	ug/l	98
73) Isopropylbenzene	13.40	105	1219634	62.580	ug/l	99
74) N-amyl acetate	13.26	43	233501	45.795	ug/l	99
75) 1,1,2,2-Tetrachloroethane	13.70	83	282442	74.733	ug/l	95
76) 1,2,3-Trichloropropane	13.73	75	289965	77.815	ug/l	99
77) Bromobenzene	13.67	156	346824	63.709	ug/l	98
78) n-propylbenzene	13.78	91	1305100	59.356	ug/l	94
79) 2-Chlorotoluene	13.83	91	757678	59.184	ug/l	100
80) 1,3,5-Trimethylbenzene	14.24	105	975249	63.433	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.47	75	86673	73.702	ug/l	99
82) 4-Chlorotoluene	13.94	91	890447	63.623	ug/l	99
83) tert-Butylbenzene	14.19	119	1114427	63.485	ug/l	99
84) 1,2,4-Trimethylbenzene	14.24	105	975249	63.433	ug/l	99
85) sec-Butylbenzene	14.37	105	1012365	51.784	ug/l	99
86) p-Isopropyltoluene	14.48	119	932550	53.467	ug/l	99
87) 1,3-Dichlorobenzene	14.45	146	542979	56.271	ug/l	99
88) 1,4-Dichlorobenzene	14.53	146	620349	66.368	ug/l	99
89) n-Butylbenzene	14.80	91	686796	44.352	ug/l	96
90) Hexachloroethane	15.01	117	247729	52.975	ug/l	96
91) 1,2-Dichlorobenzene	14.81	146	609240	79.126	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.38	75	38898	82.365	ug/l	83

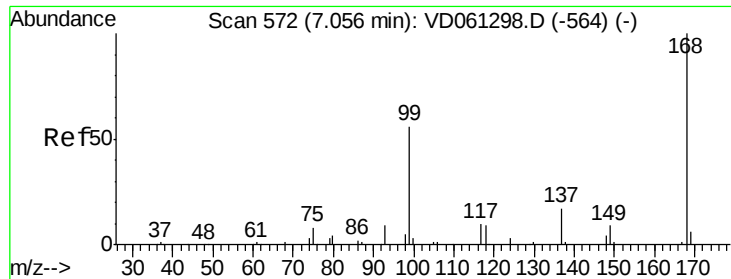
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	175769	49.430	ug/l	99
94) Hexachlorobutadiene	16.04	225	70108	24.468	ug/l	97
95) Naphthalene	16.12	128	331441	63.879	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	79495	47.864	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

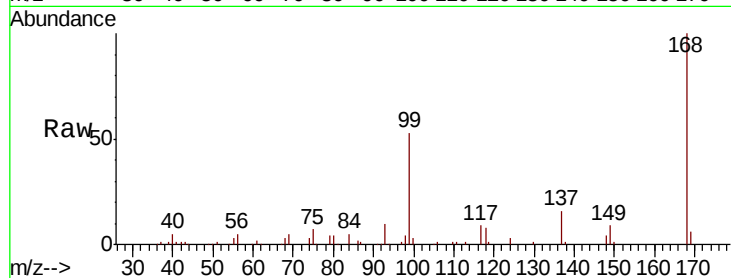
WP022SB439-190318-(13-14)MSD

Tot Ion:168 Resp: 532392

Ion Ratio Lower Upper

168 100

99 53.3 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

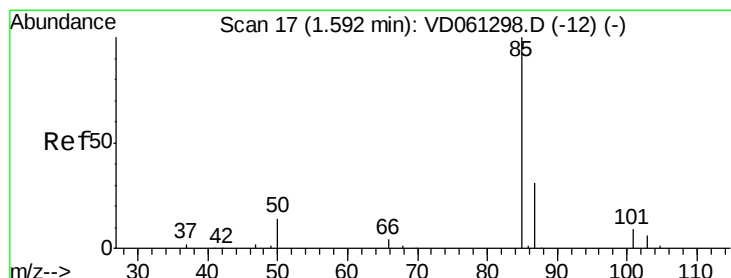
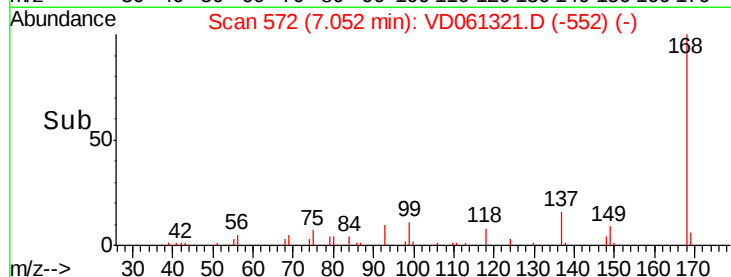
150000

100000

50000

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Time-->



#2

Dichlorodifluoromethane

Concen: 59.280 ug/l

RT: 1.59 min Scan# 17

Delta R.T. -0.00 min

Lab File: VD061321.D

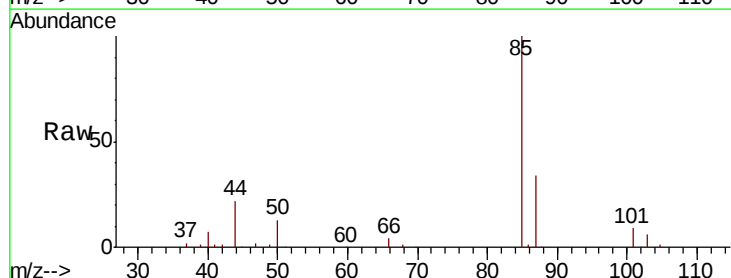
Acq: 26 Mar 2019 2:26

Tgt Ion: 85 Resp: 322675

Ion Ratio Lower Upper

85 100

87 33.8 15.4 46.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.59

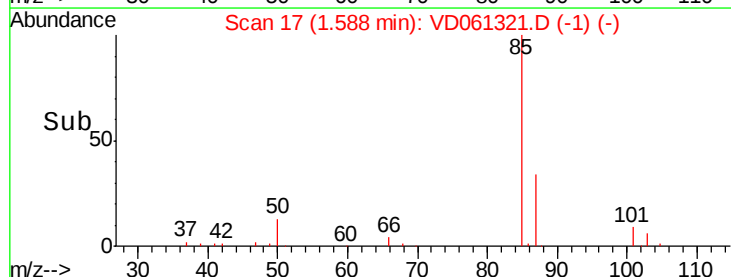
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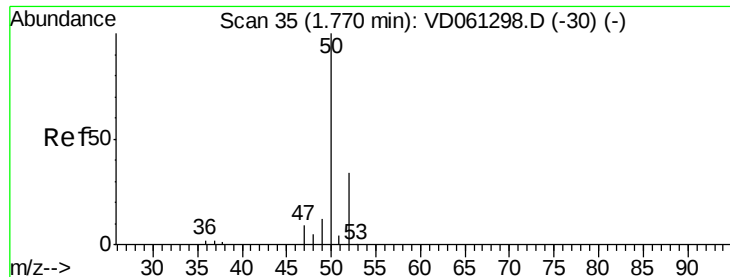
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50000

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Time-->





#3

Chloromethane

Concen: 63.381 ug/l

RT: 1.77 min Scan# 35

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

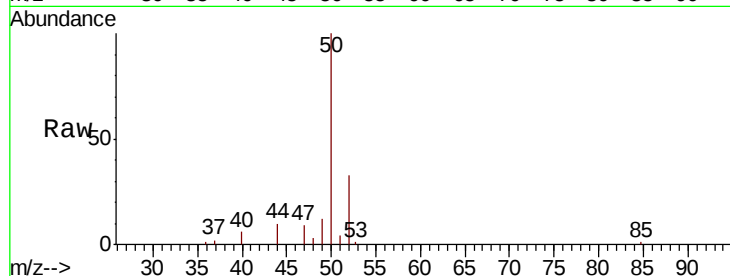
WP022SB439-190318-(13-14)MSD

Tot Ion: 50 Resp: 269130

Ion Ratio Lower Upper

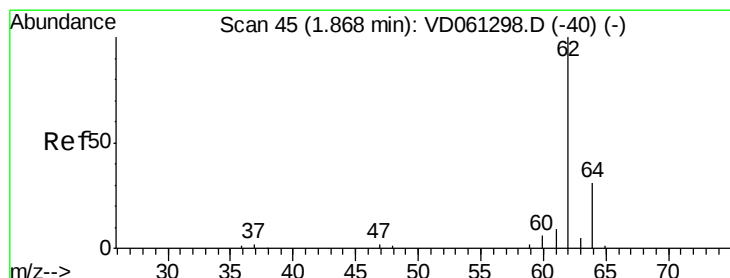
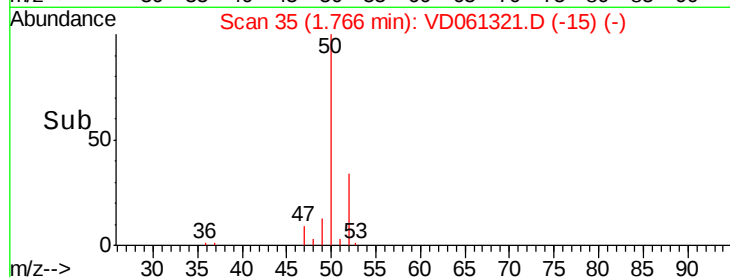
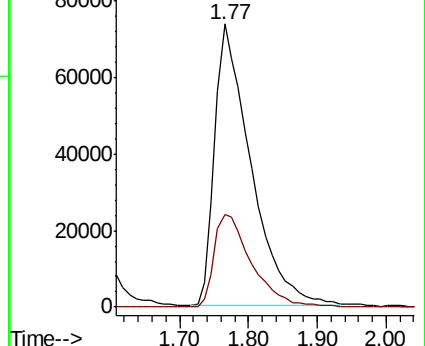
50 100

52 32.9 27.1 40.7



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 65.395 ug/l

RT: 1.86 min Scan# 45

Delta R.T. -0.00 min

Lab File: VD061321.D

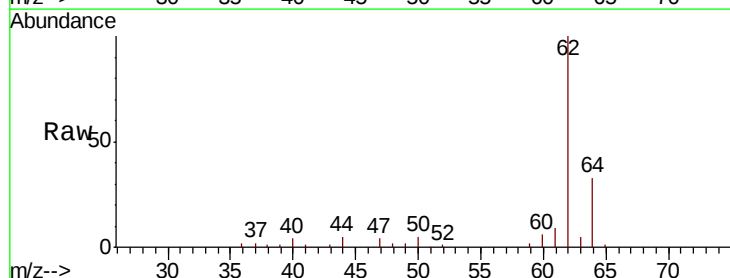
Acq: 26 Mar 2019 2:26

Tgt Ion: 62 Resp: 259635

Ion Ratio Lower Upper

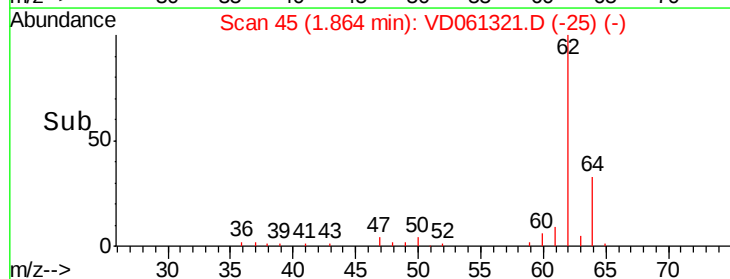
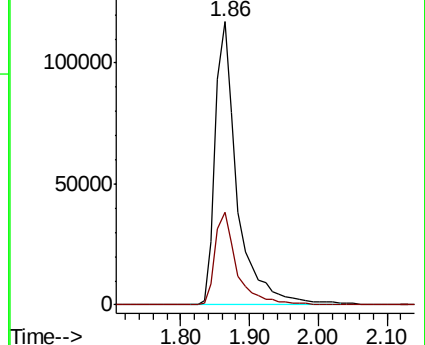
62 100

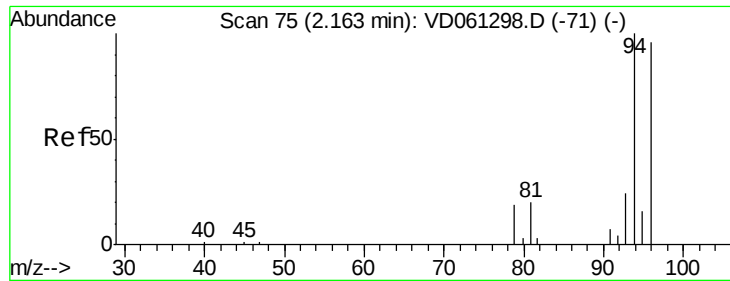
64 32.6 25.1 37.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 56.650 ug/l

RT: 2.16 min Scan# 75

Delta R.T. -0.00 min

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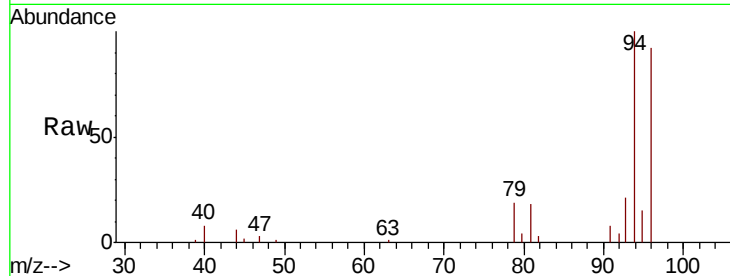
Tot Ion: 94 Resp: 45650

Ion Ratio Lower Upper

94 100

96 92.2 76.9 115.3

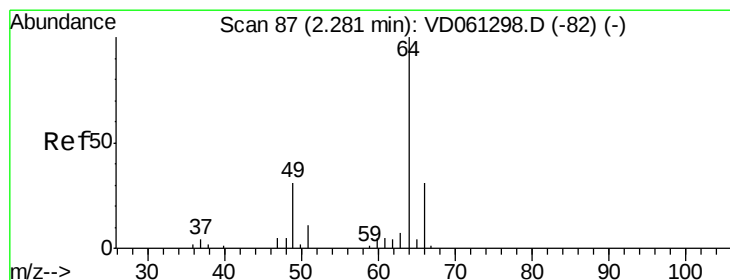
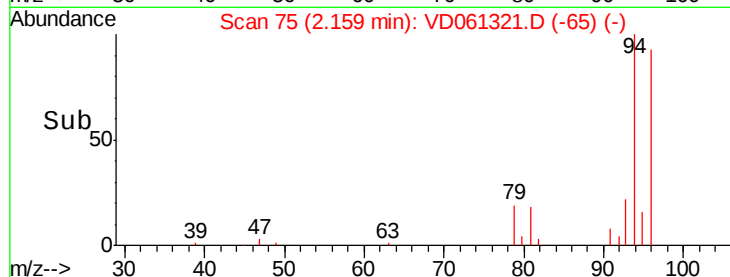
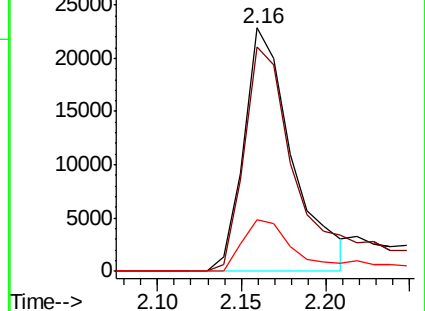
93 21.2 18.8 28.2



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: 70.526 ug/l

RT: 2.28 min Scan# 87

Delta R.T. -0.00 min

Lab File: VD061321.D

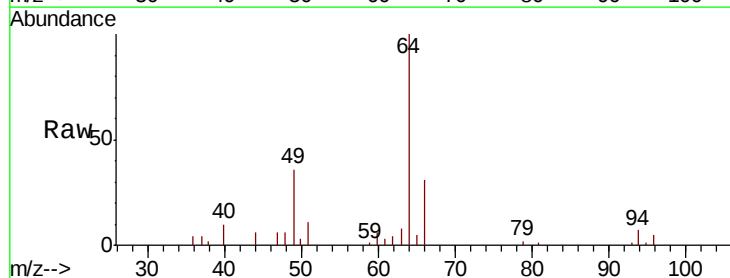
Acq: 26 Mar 2019 2:26

Tgt Ion: 64 Resp: 88089

Ion Ratio Lower Upper

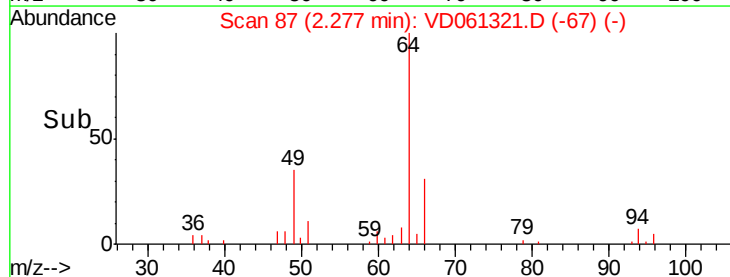
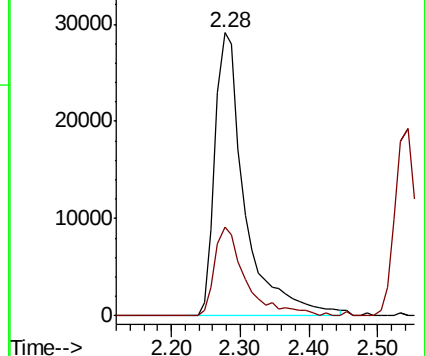
64 100

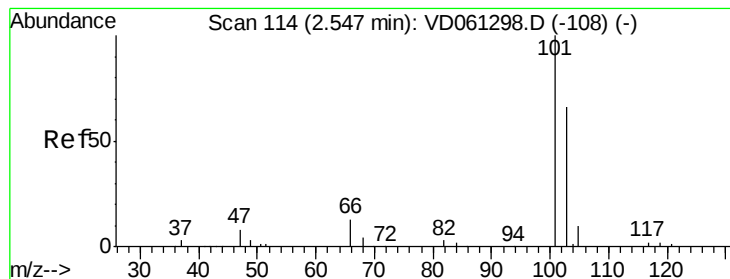
66 31.4 24.6 36.8



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



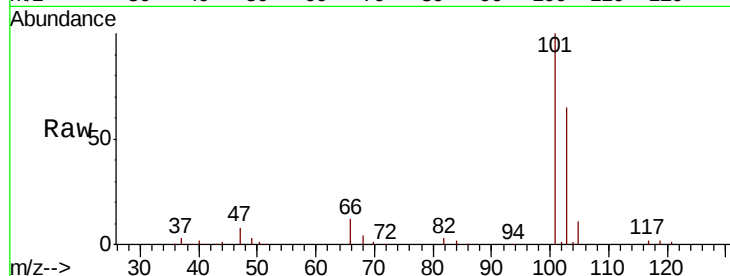


#7

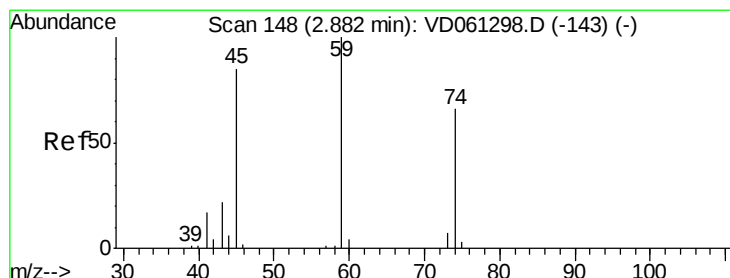
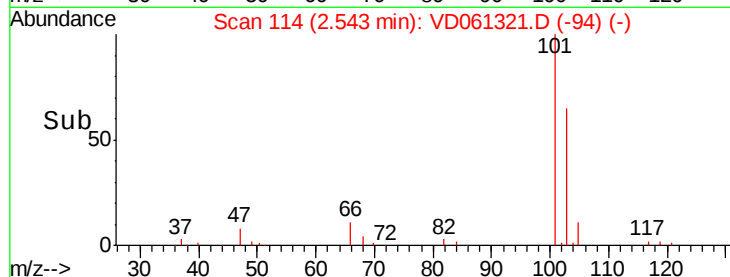
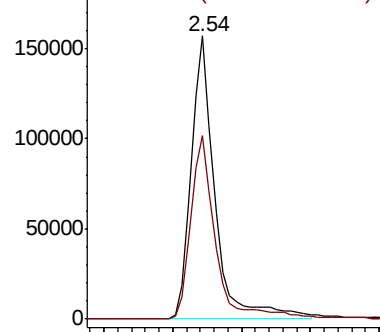
Trichlorofluoromethane
Concen: 64.202 ug/l
RT: 2.54 min Scan# 114
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

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Tot Ion:101 Resp: 376777
Ion Ratio Lower Upper
101 100
103 64.8 52.6 79.0



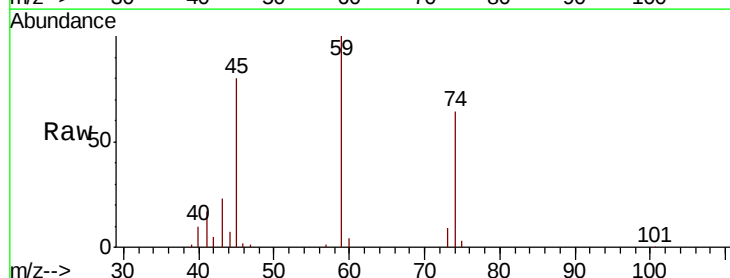
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



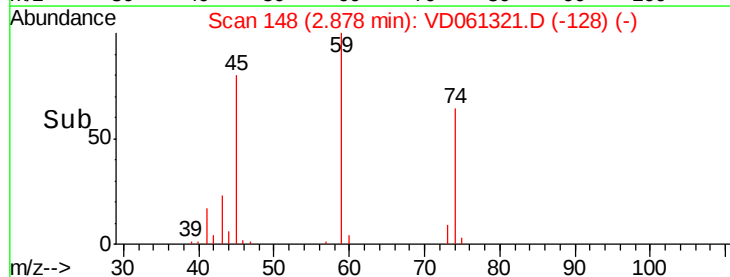
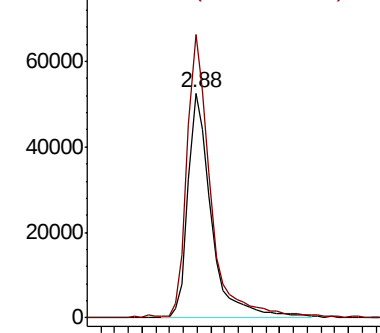
#8

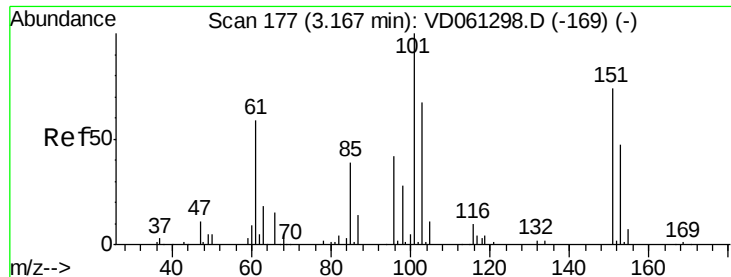
Diethyl Ether
Concen: 71.457 ug/l
RT: 2.88 min Scan# 148
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 74 Resp: 124689
Ion Ratio Lower Upper
74 100
45 125.8 64.3 192.9



Abundance Ion 74.00 (73.70 to 74.70): VDC
Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 59.306 ug/l

RT: 3.16 min Scan# 177

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

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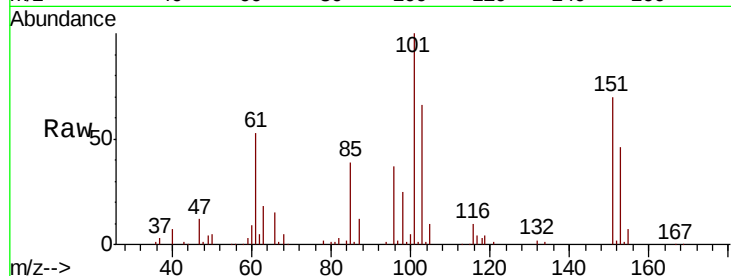
Tot Ion:101 Resp: 354256

Ion Ratio Lower Upper

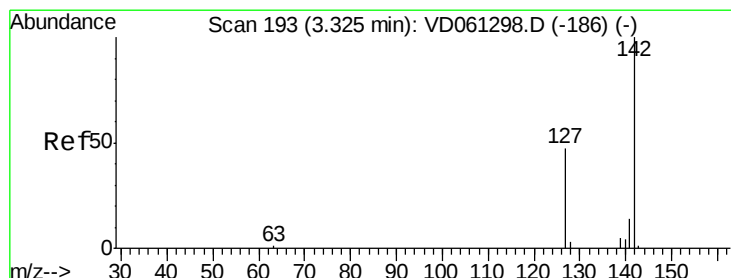
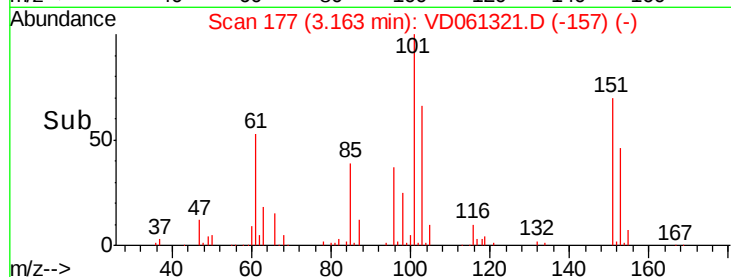
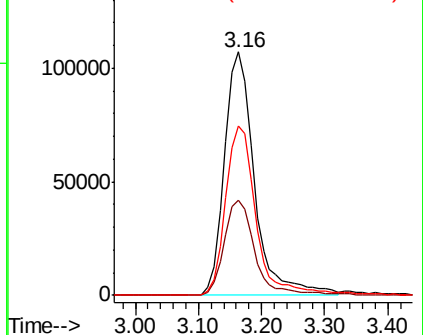
101 100

85 39.1 31.6 47.4

151 69.7 59.3 88.9



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: 75.082 ug/l

RT: 3.32 min Scan# 193

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

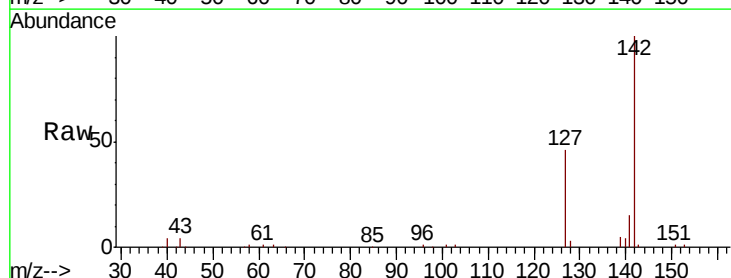
Tgt Ion:142 Resp: 626567

Ion Ratio Lower Upper

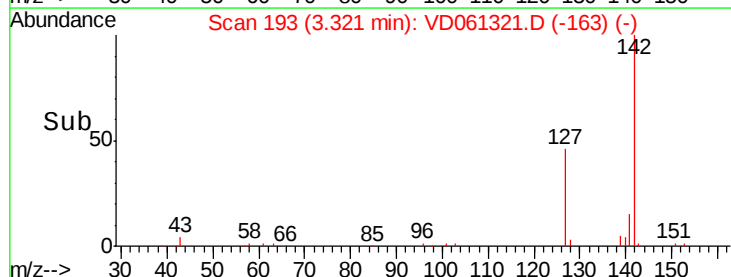
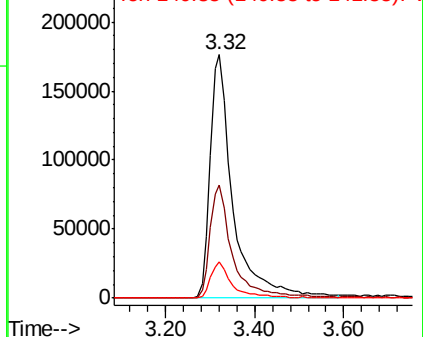
142 100

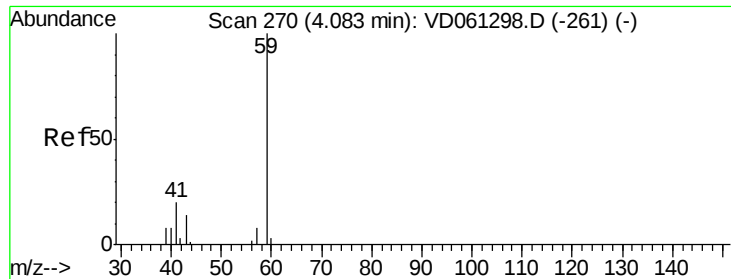
127 46.5 37.8 56.6

141 14.8 11.6 17.4



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



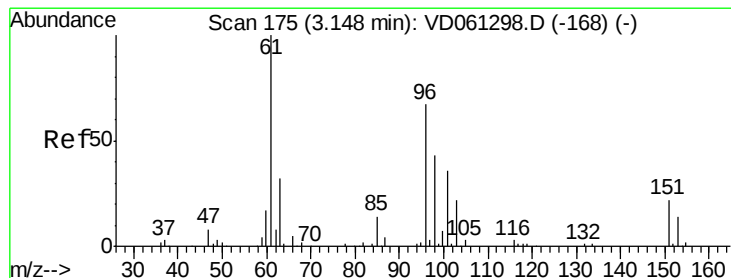
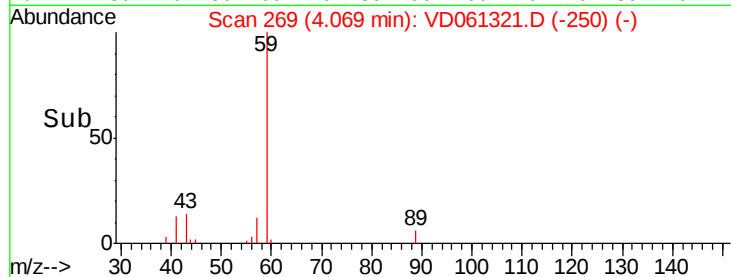
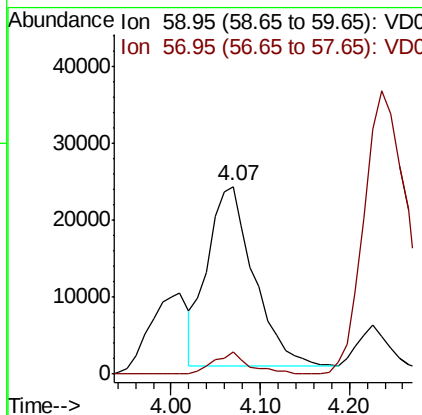
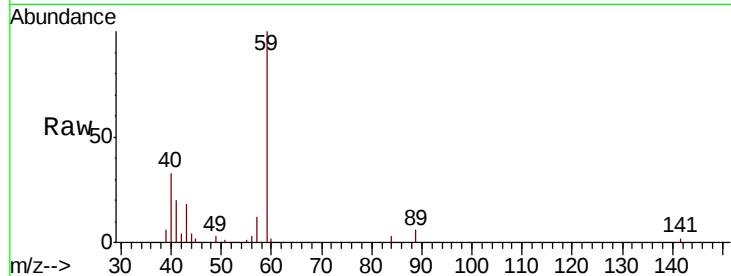


#11

Tert butyl alcohol
Concen: 343.830 ug/l
RT: 4.07 min Scan# 269
Delta R.T. -0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

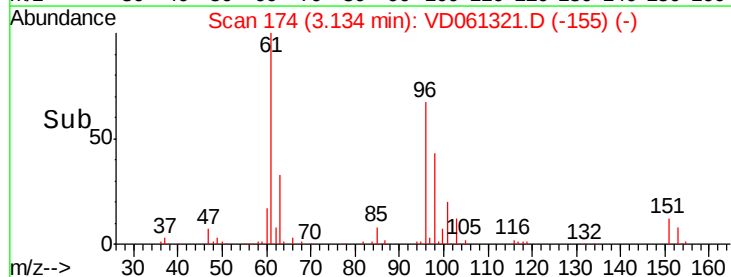
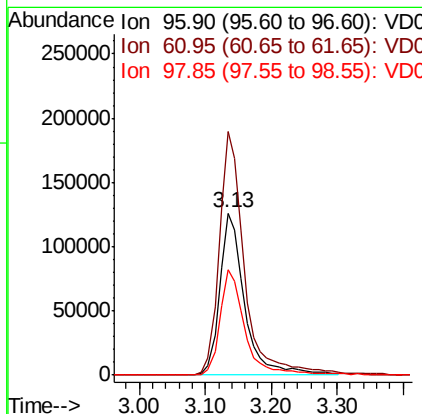
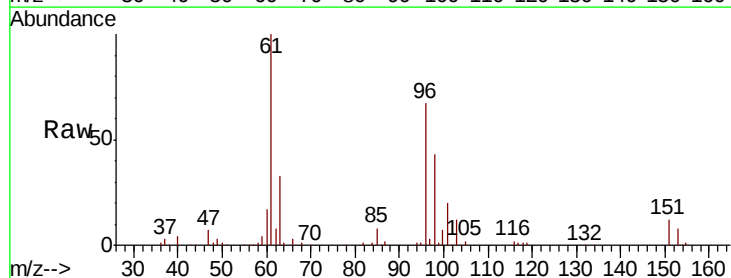
Tot Ion: 59 Resp: 84072
Ion Ratio Lower Upper
59 100
57 11.7 6.6 9.8#

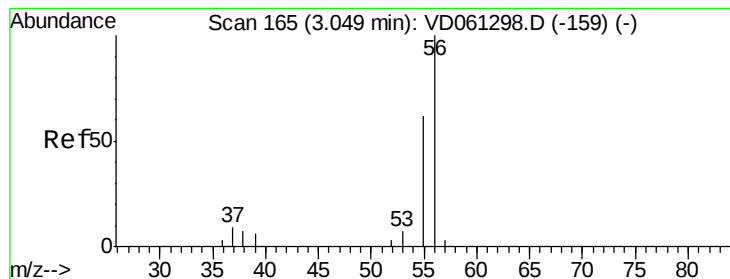


#12

1,1-Dichloroethene
Concen: 64.497 ug/l
RT: 3.13 min Scan# 174
Delta R.T. -0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 96 Resp: 331506
Ion Ratio Lower Upper
96 100
61 150.2 120.2 180.2
98 65.0 52.2 78.4





#13

Acrolein

Concen: 141.889 ug/l

RT: 3.05 min Scan# 165

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

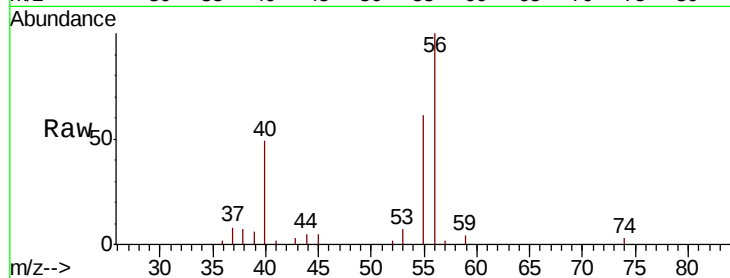
WP022SB439-190318-(13-14)MSD

Tot Ion: 56 Resp: 37976

Ion Ratio Lower Upper

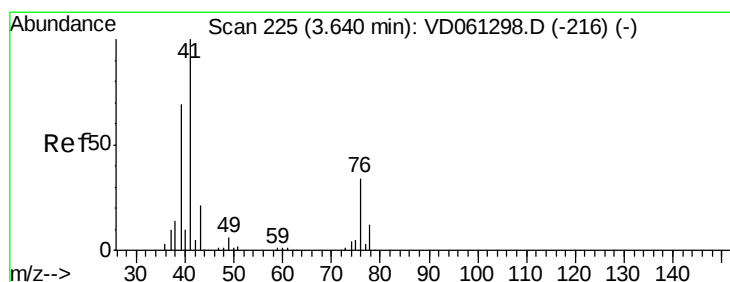
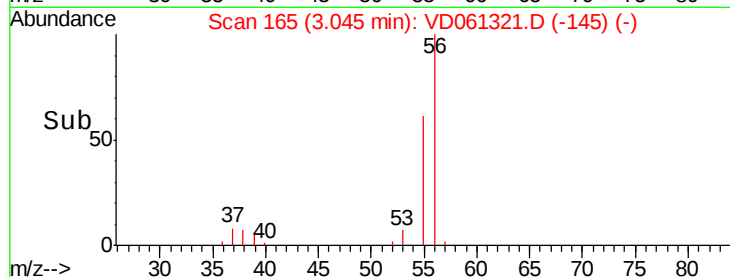
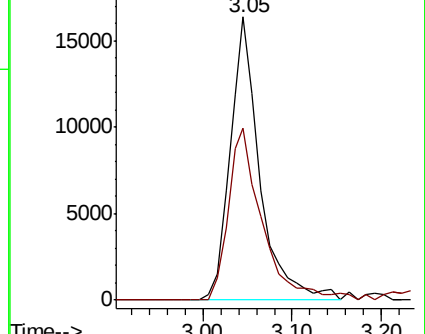
56 100

55 60.9 49.8 74.6



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 66.394 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

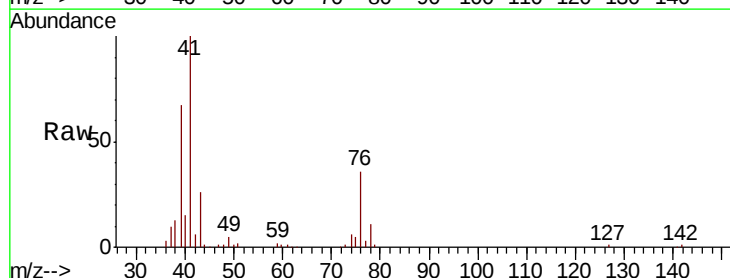
Tgt Ion: 41 Resp: 484100

Ion Ratio Lower Upper

41 100

39 66.9 55.1 82.7

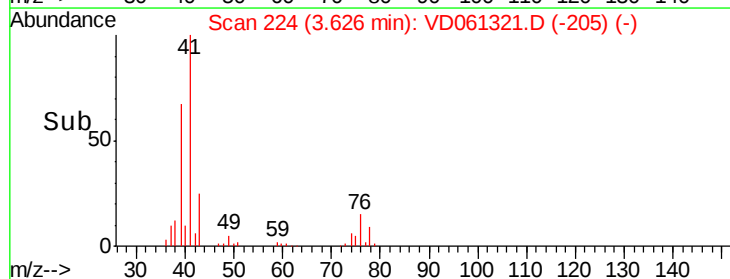
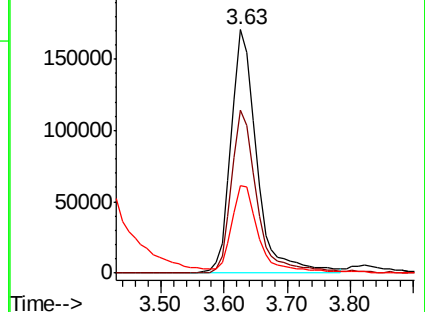
76 36.0 30.2 45.2

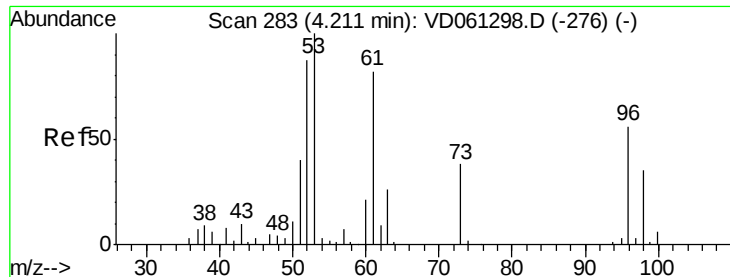


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 374.833 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

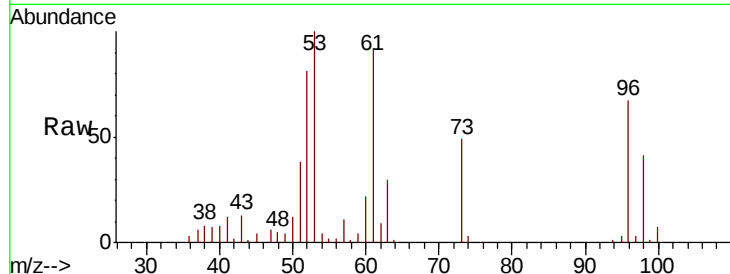
Tot Ion: 53 Resp: 322326

Ion Ratio Lower Upper

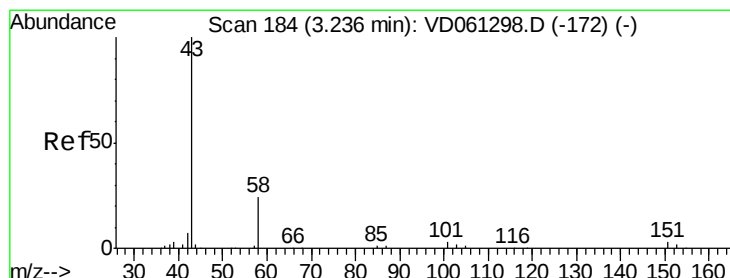
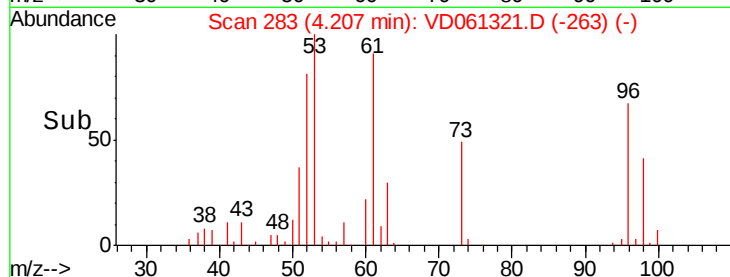
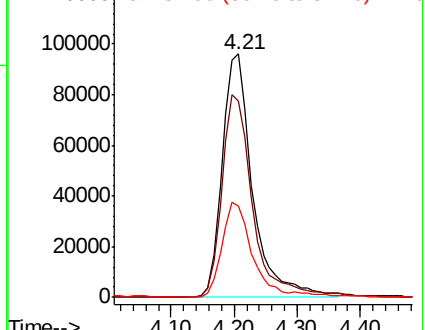
53 100

52 80.8 69.4 104.2

51 37.6 31.7 47.5



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: 473.660 ug/l

RT: 3.23 min Scan# 184

Delta R.T. -0.00 min

Lab File: VD061321.D

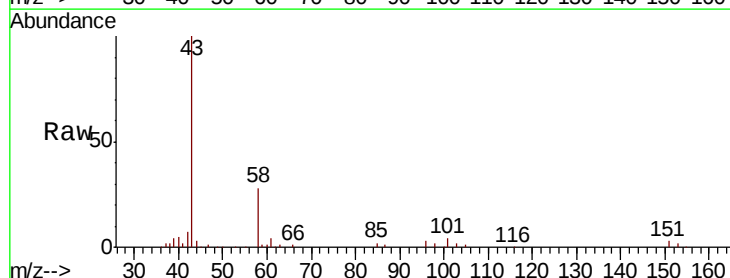
Acq: 26 Mar 2019 2:26

Tgt Ion: 43 Resp: 520409

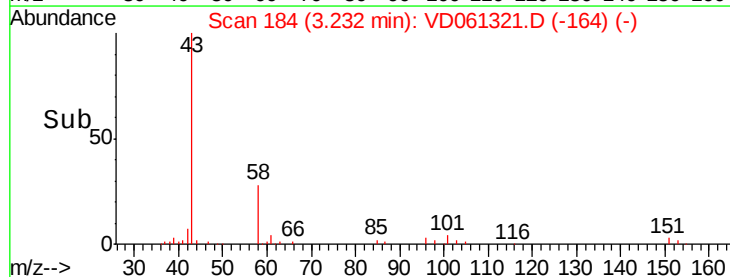
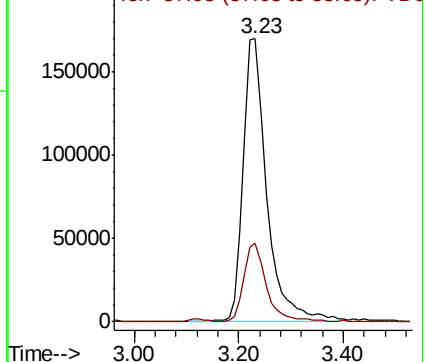
Ion Ratio Lower Upper

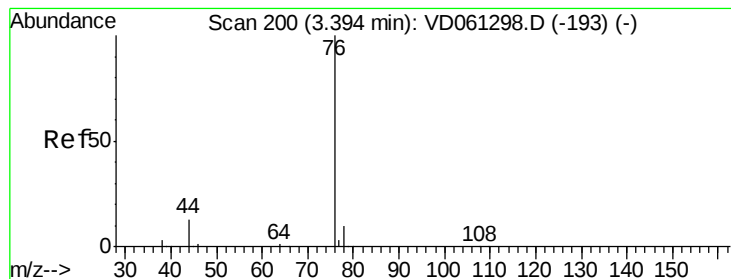
43 100

58 27.6 19.4 29.0



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





#17

Carbon Disulfide

Concen: 61.473 ug/l

RT: 3.39 min Scan# 200

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

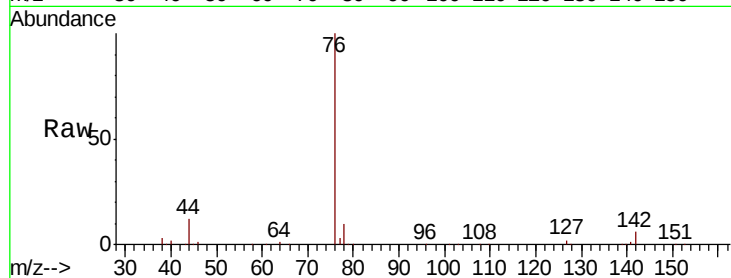
WP022SB439-190318-(13-14)MSD

Tot Ion: 76 Resp: 1049366

Ion Ratio Lower Upper

76 100

78 9.6 7.8 11.6



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.39

400000

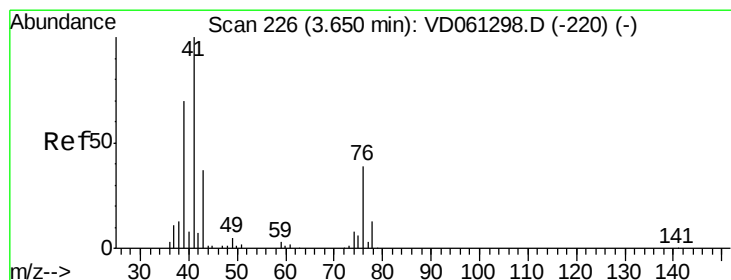
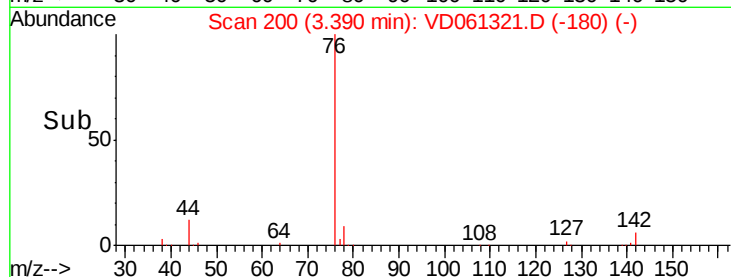
300000

200000

100000

0

Time-->



#18

Methyl Acetate

Concen: 117.910 ug/l

RT: 3.65 min Scan# 226

Delta R.T. -0.00 min

Lab File: VD061321.D

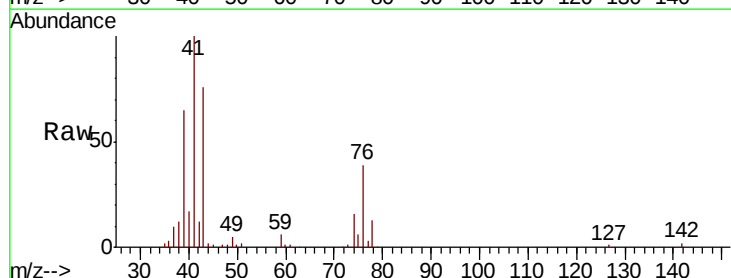
Acq: 26 Mar 2019 2:26

Tgt Ion: 43 Resp: 244869

Ion Ratio Lower Upper

43 100

74 21.6 16.6 25.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.65

80000

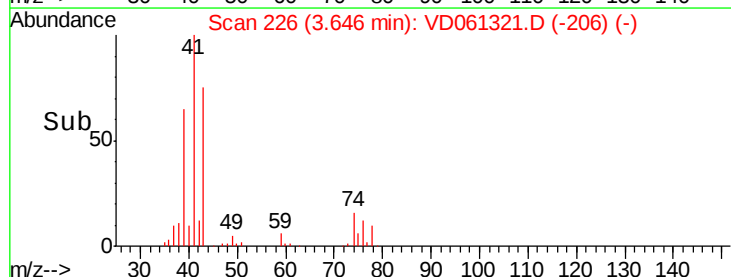
60000

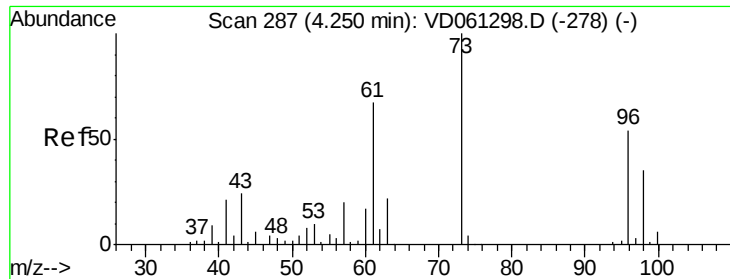
40000

20000

0

Time-->

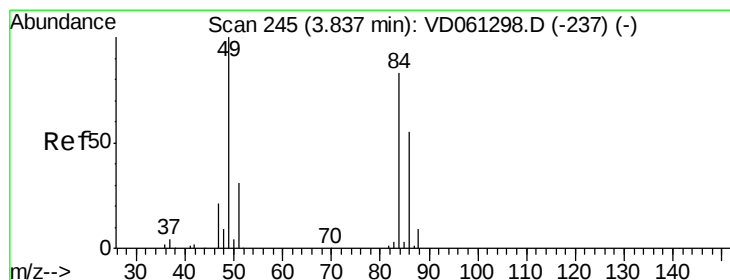
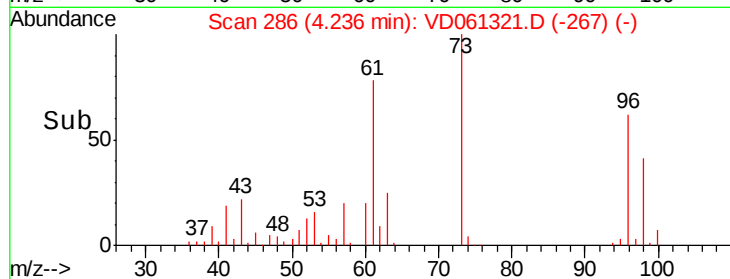
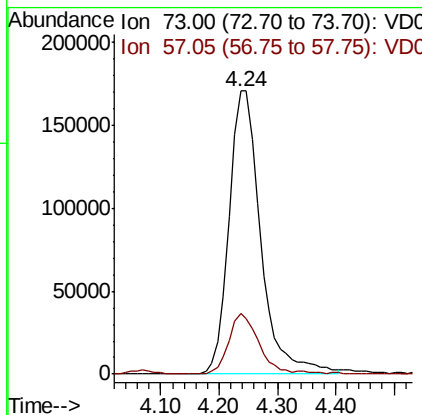
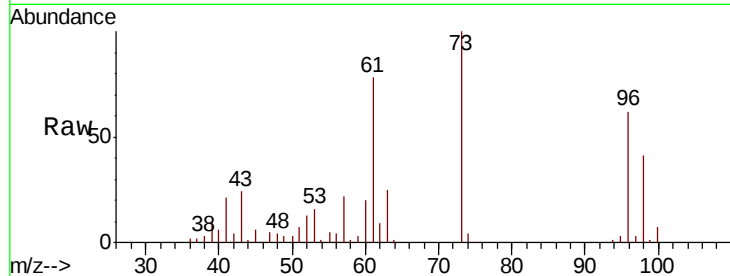




#19
Methyl tert-butyl Ether
Concen: 71.607 ug/l
RT: 4.24 min Scan# 286
Delta R.T. -0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

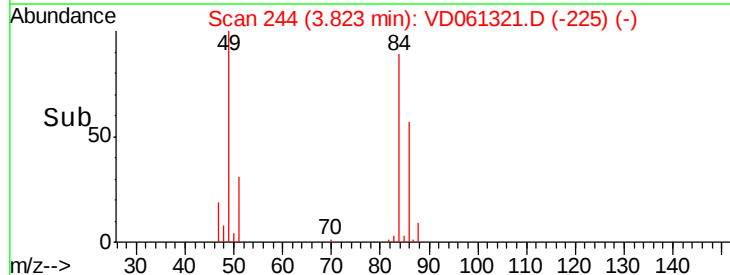
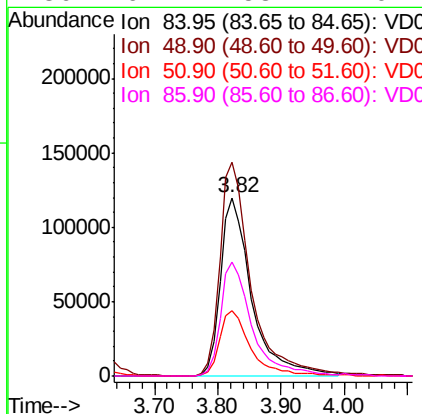
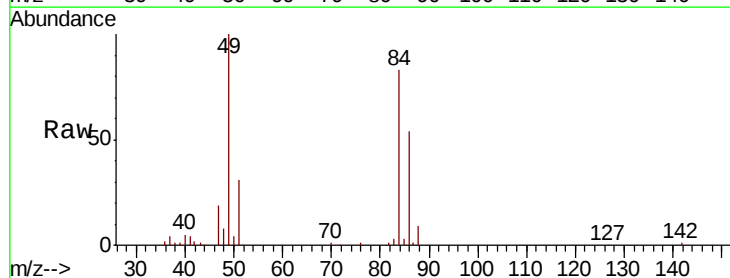
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

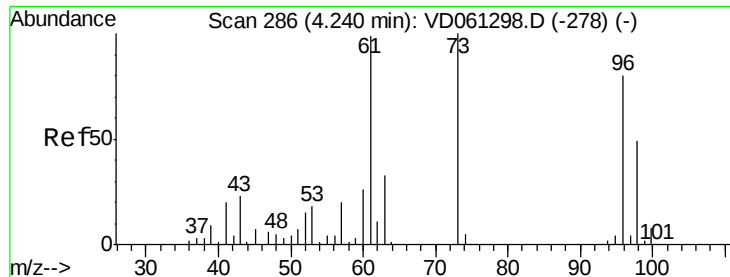
Tot Ion: 73 Resp: 648173
Ion Ratio Lower Upper
73 100
57 21.6 16.3 24.5



#20
Methylene Chloride
Concen: 66.098 ug/l
RT: 3.82 min Scan# 244
Delta R.T. -0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 84 Resp: 412175
Ion Ratio Lower Upper
84 100
49 119.9 96.8 145.2
51 37.0 29.9 44.9
86 64.2 53.1 79.7





#21

trans-1,2-Dichloroethene

Concen: 65.974 ug/l

RT: 4.23 min Scan# 285

Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

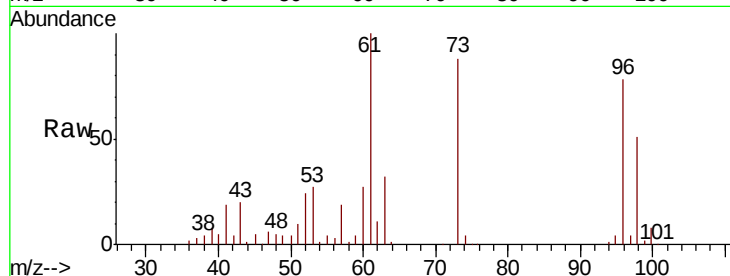
Tot Ion: 96 Resp: 379356

Ion Ratio Lower Upper

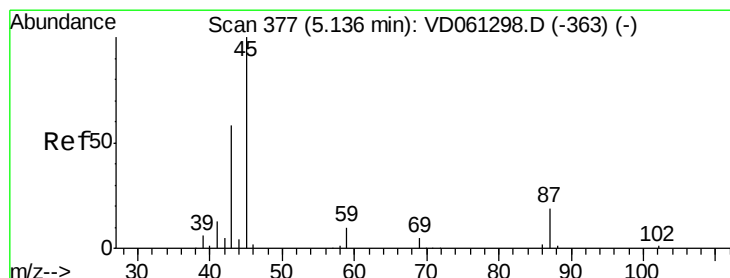
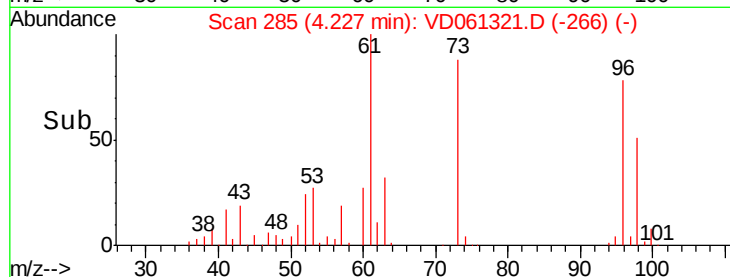
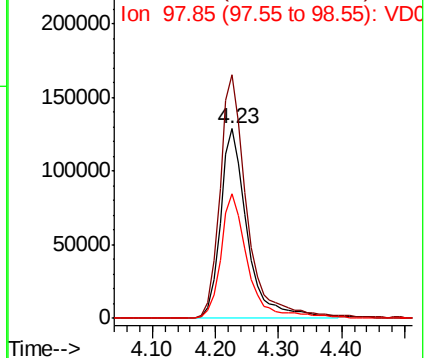
96 100

61 128.3 99.2 148.8

98 65.3 49.2 73.8



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: 74.700 ug/l

RT: 5.12 min Scan# 376

Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Tgt Ion: 45 Resp: 1147377

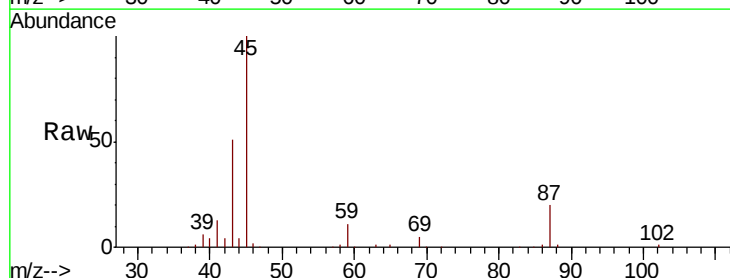
Ion Ratio Lower Upper

45 100

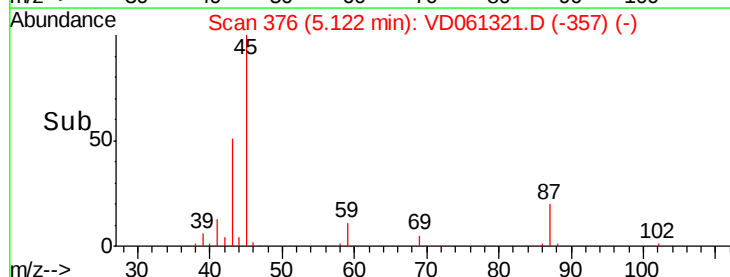
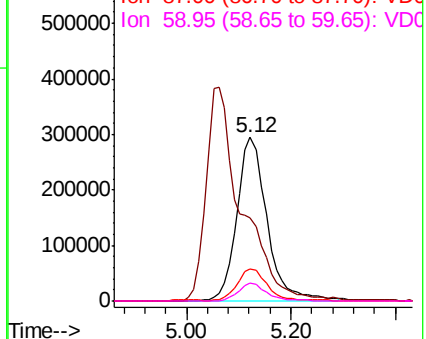
43 51.2 46.7 70.1

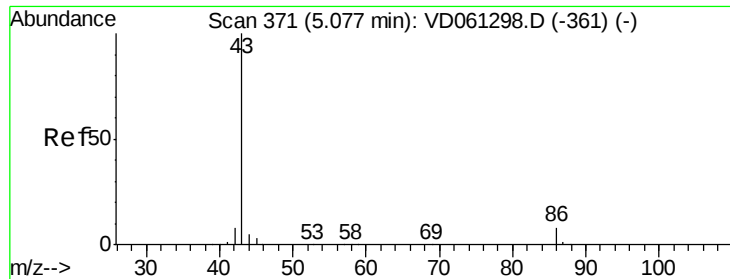
87 20.0 15.5 23.3

59 10.6 8.4 12.6



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





#23

Vinyl Acetate

Concen: 218.051 ug/l

RT: 5.06 min Scan# 370

Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

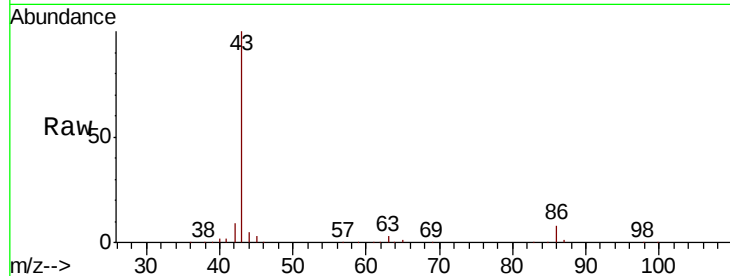
WP022SB439-190318-(13-14)MSD

Tot Ion: 43 Resp: 1788786

Ion Ratio Lower Upper

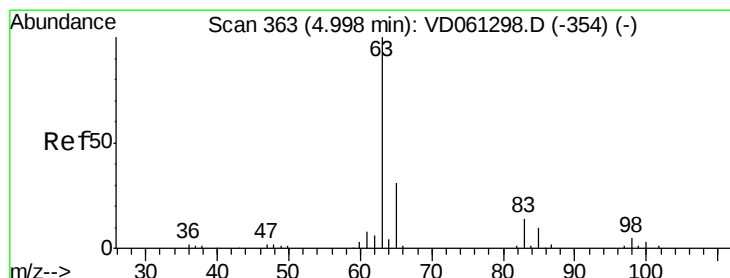
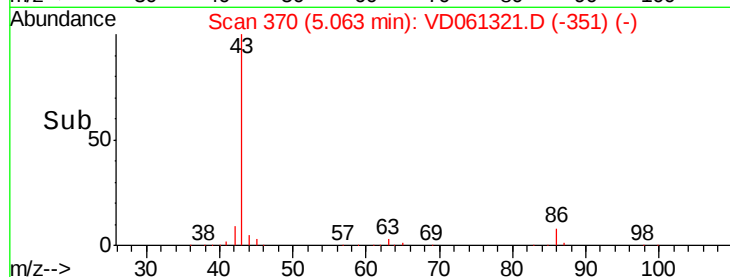
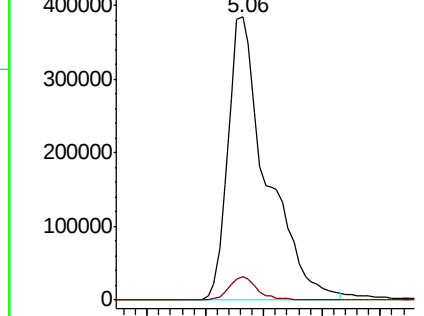
43 100

86 8.4 6.3 9.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 66.816 ug/l

RT: 4.98 min Scan# 362

Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

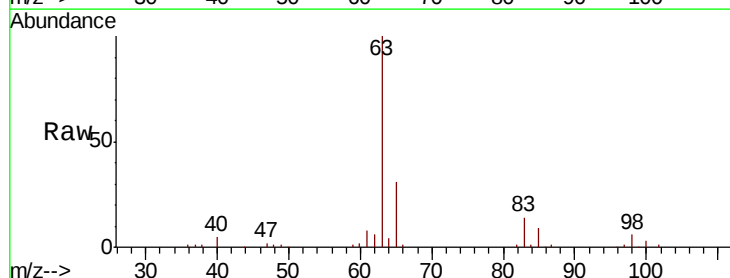
Tgt Ion: 63 Resp: 598056

Ion Ratio Lower Upper

63 100

98 5.5 2.8 8.3

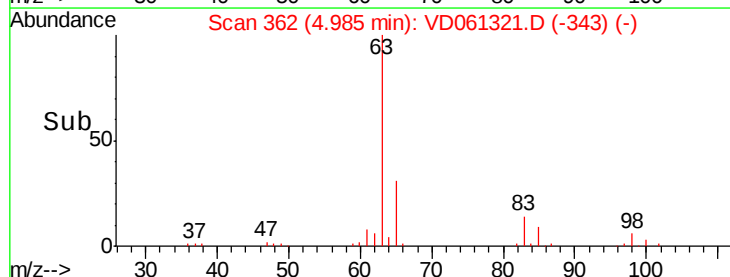
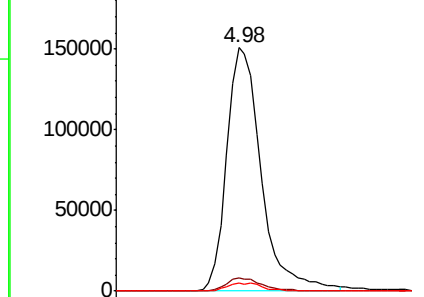
100 3.3 1.6 4.8

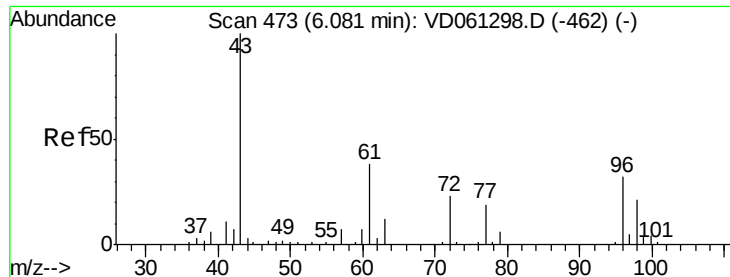


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 408.794 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

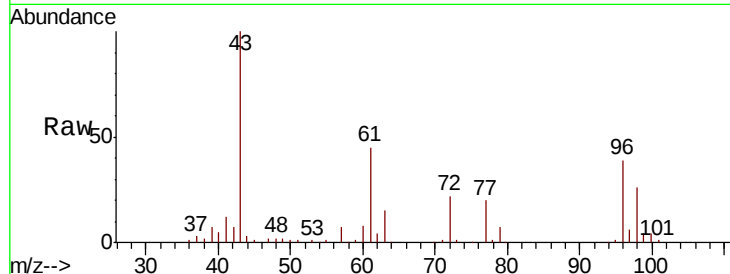
WP022SB439-190318-(13-14)MSD

Tot Ion: 43 Resp: 519494

Ion Ratio Lower Upper

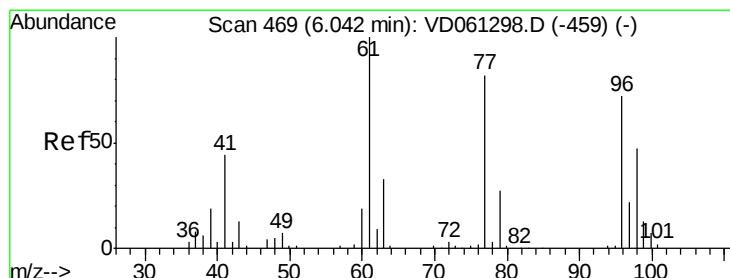
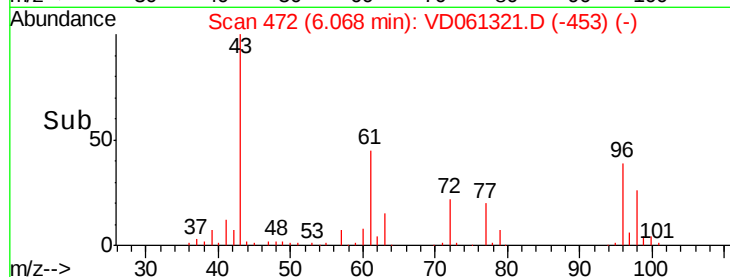
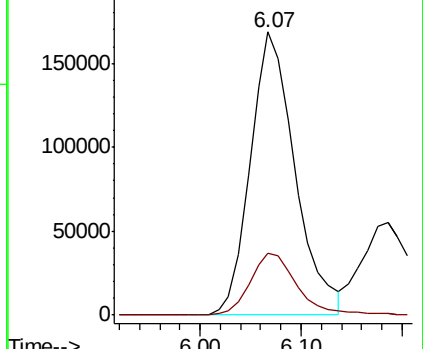
43 100

72 22.1 18.5 27.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 59.681 ug/l

RT: 6.03 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD061321.D

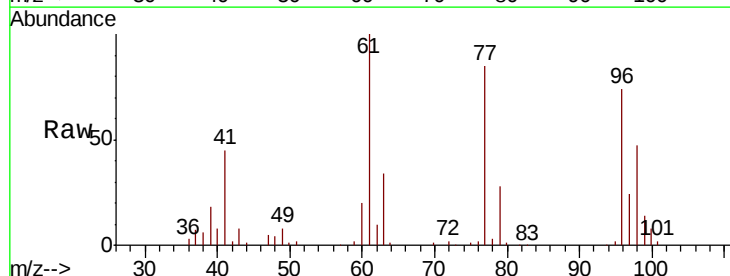
Acq: 26 Mar 2019 2:26

Tgt Ion: 77 Resp: 453593

Ion Ratio Lower Upper

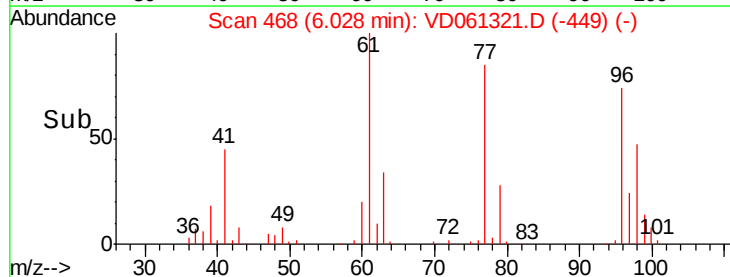
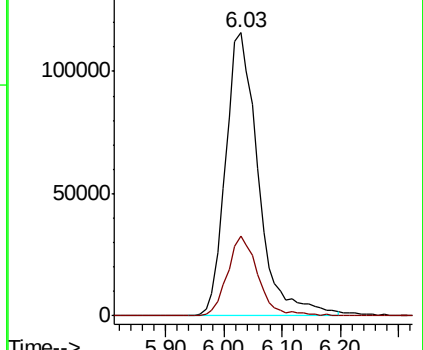
77 100

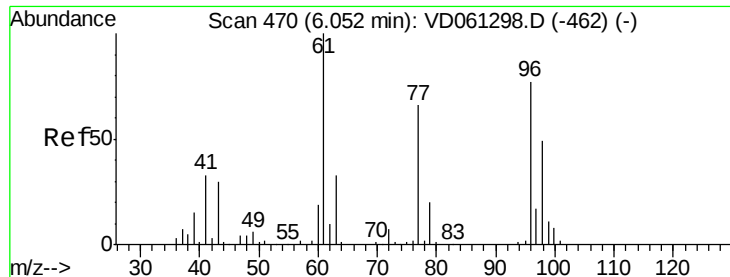
97 28.3 13.5 40.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



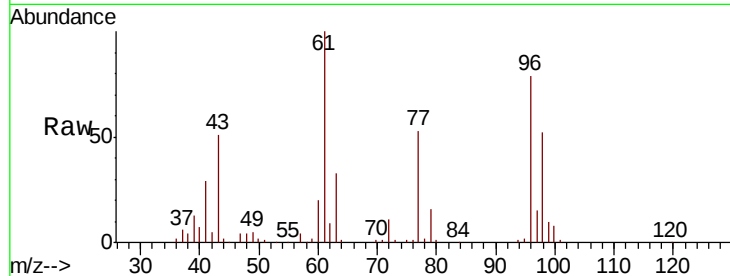


#27

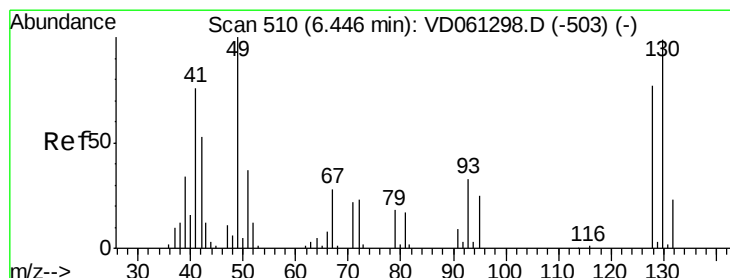
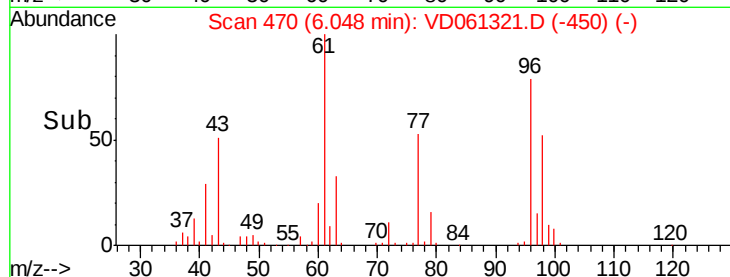
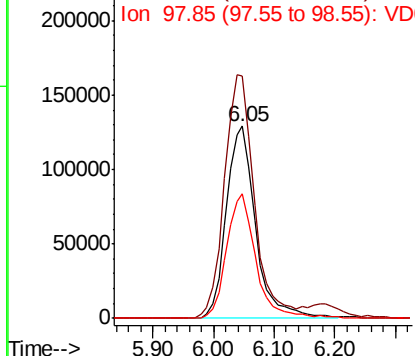
cis-1,2-Dichloroethene
Concen: 70.012 ug/l
RT: 6.05 min Scan# 470
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion: 96 Resp: 433221
Ion Ratio Lower Upper
96 100
61 126.4 0.0 261.0
98 65.2 0.0 127.6



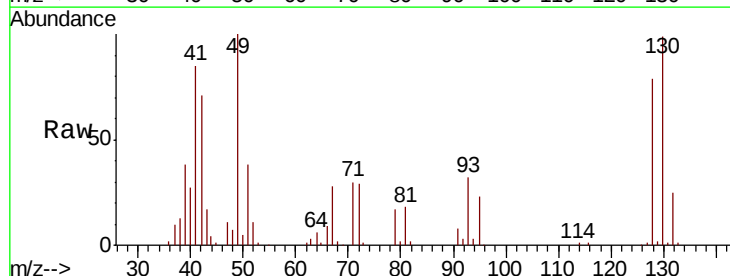
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



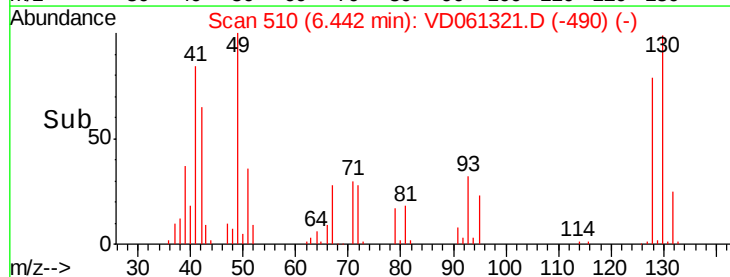
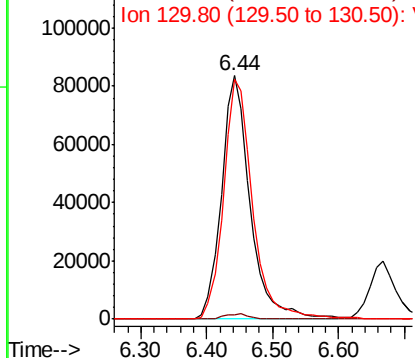
#28

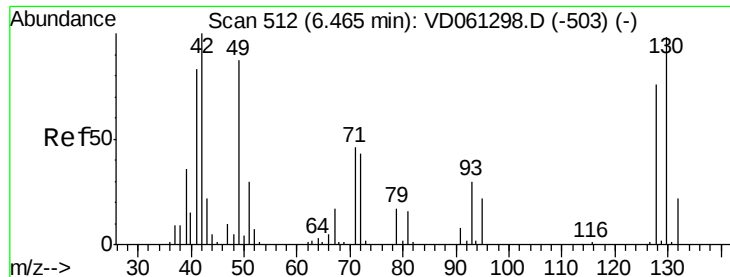
Bromochloromethane
Concen: 67.692 ug/l
RT: 6.44 min Scan# 510
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 49 Resp: 253606
Ion Ratio Lower Upper
49 100
129 1.9 0.0 5.2
130 98.7 79.0 118.6



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): VDC
Ion 129.80 (129.50 to 130.50): VDC

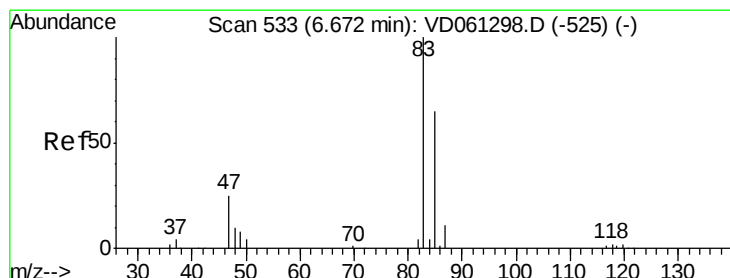
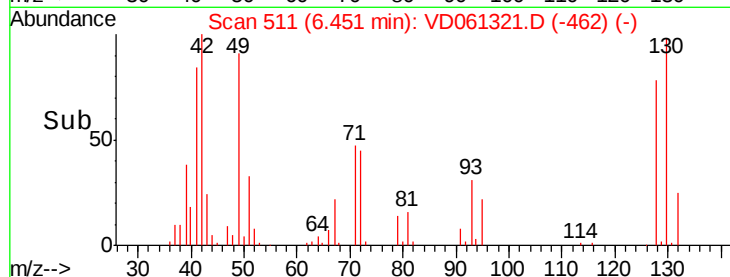
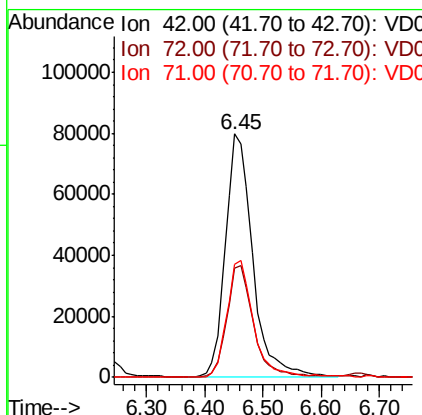
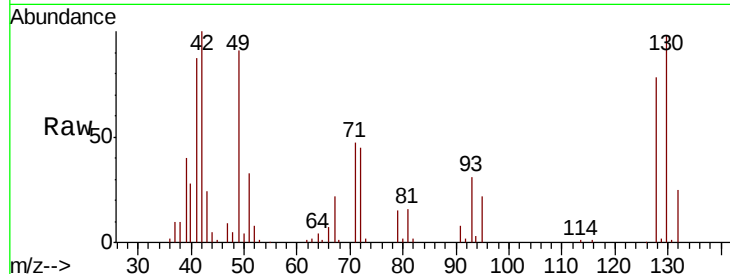




#29
Tetrahydrofuran
Concen: 411.995 ug/l
RT: 6.45 min Scan# 511
Delta R.T. -0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

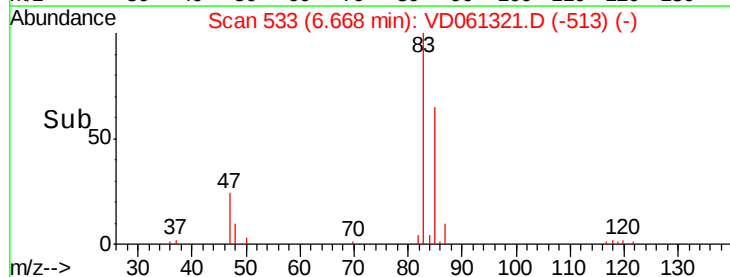
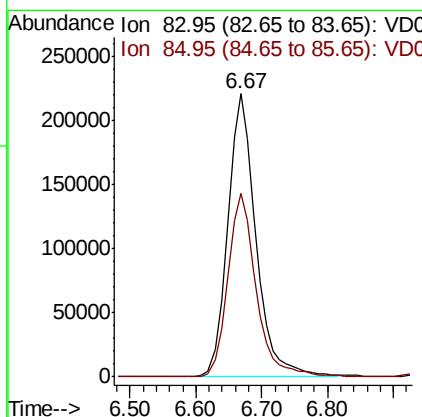
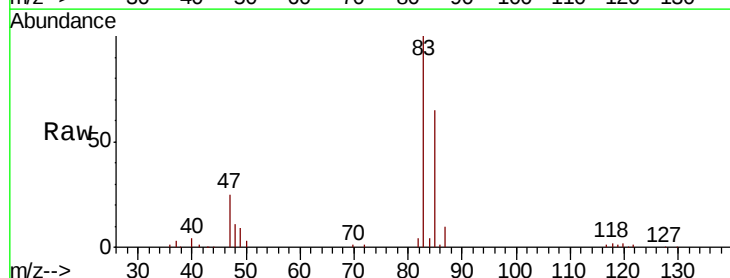
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

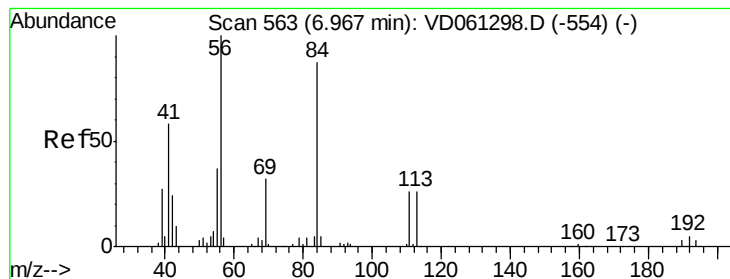
Tot Ion: 42 Resp: 260603
Ion Ratio Lower Upper
42 100
72 44.8 36.6 54.8
71 45.8 36.3 54.5



#30
Chloroform
Concen: 69.242 ug/l
RT: 6.67 min Scan# 533
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 83 Resp: 660444
Ion Ratio Lower Upper
83 100
85 64.7 52.2 78.2





#31

Cyclohexane

Concen: 61.129 ug/l

RT: 6.96 min Scan# 563

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

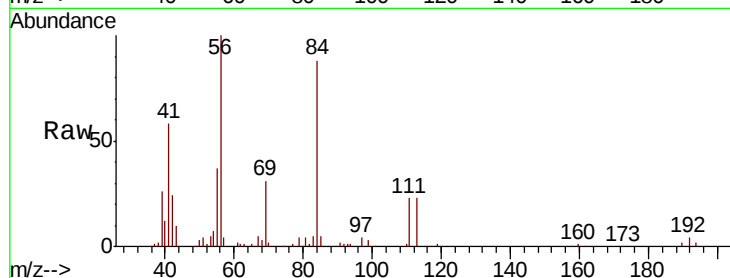
Tot Ion: 56 Resp: 444090

Ion Ratio Lower Upper

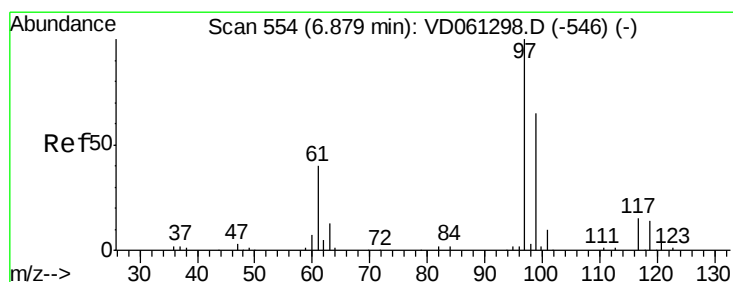
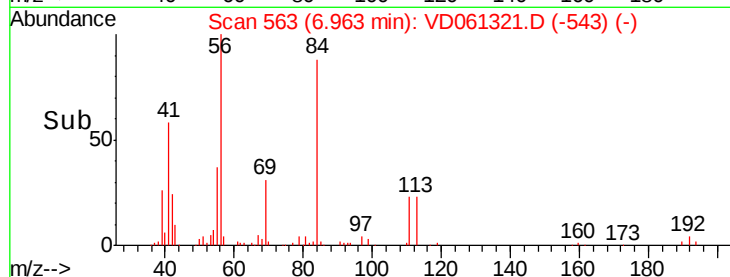
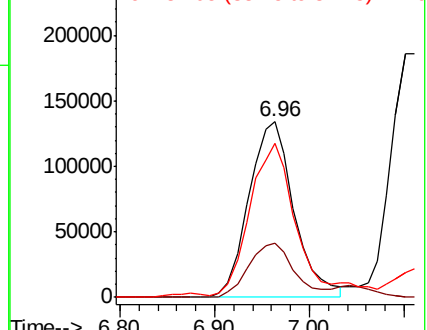
56 100

69 31.0 25.5 38.3

84 87.8 71.4 107.2



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: 61.206 ug/l

RT: 6.87 min Scan# 554

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

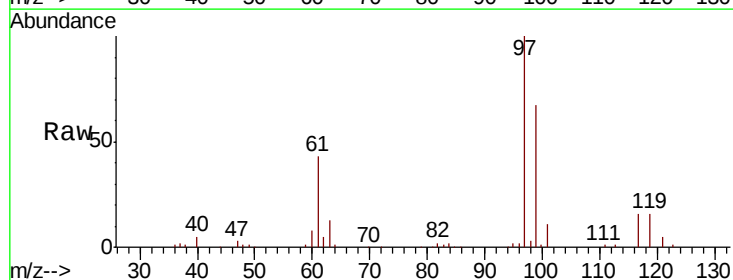
Tgt Ion: 97 Resp: 517044

Ion Ratio Lower Upper

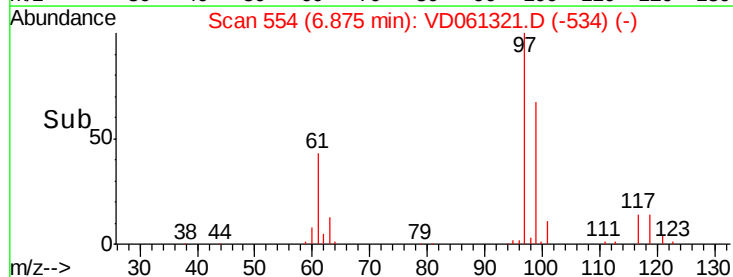
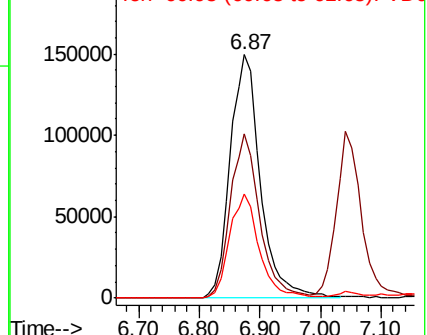
97 100

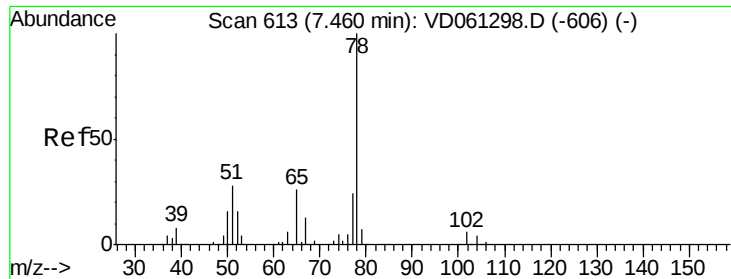
99 67.4 51.8 77.6

61 42.6 31.9 47.9



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

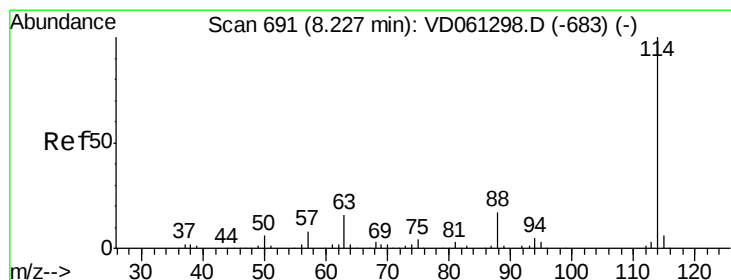
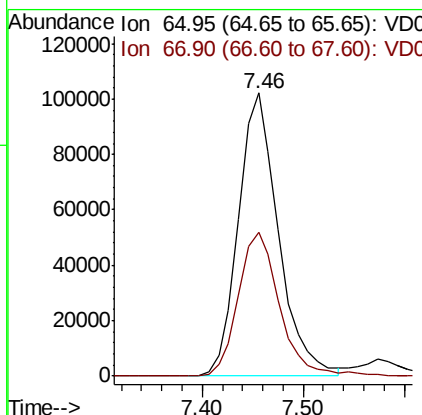
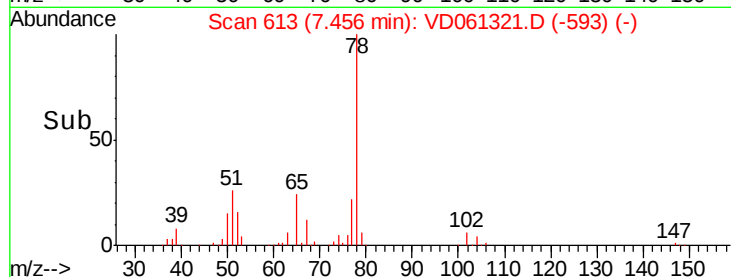
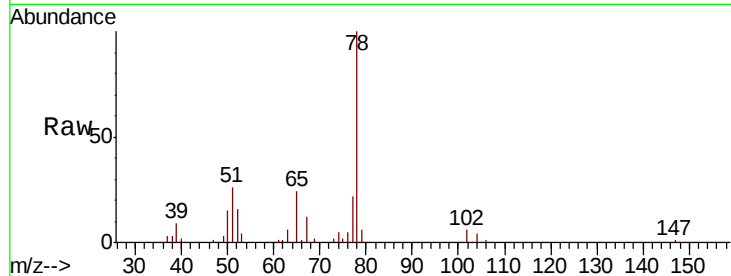




#33
 1,2-Dichloroethane-d4
 Concen: 61.206 ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

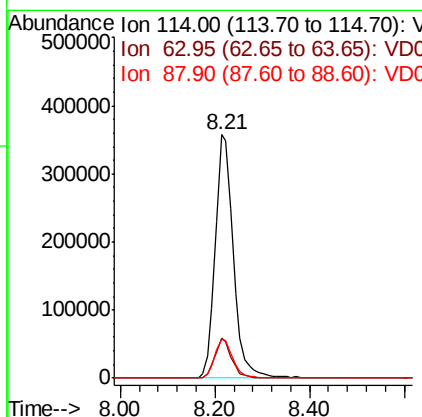
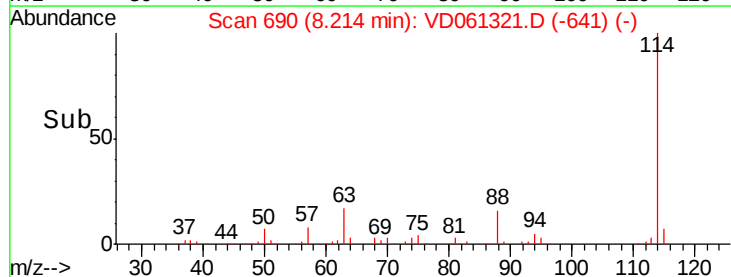
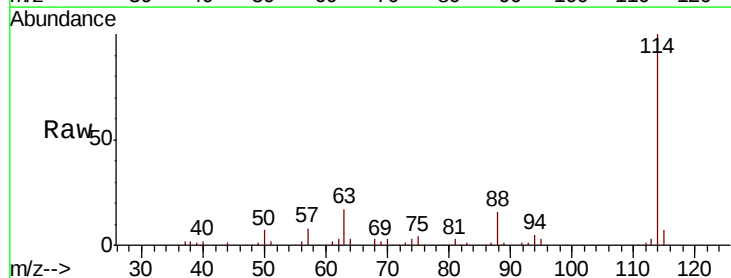
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

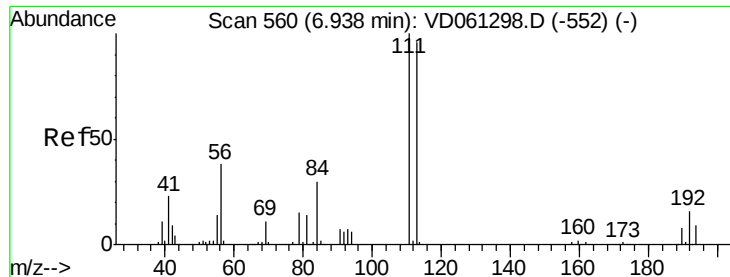
Tot Ion: 65 Resp: 281595
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 100.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 690
 Delta R.T. -0.01 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion: 114 Resp: 947875
 Ion Ratio Lower Upper
 114 100
 63 16.6 0.0 31.4
 88 16.2 0.0 33.2





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

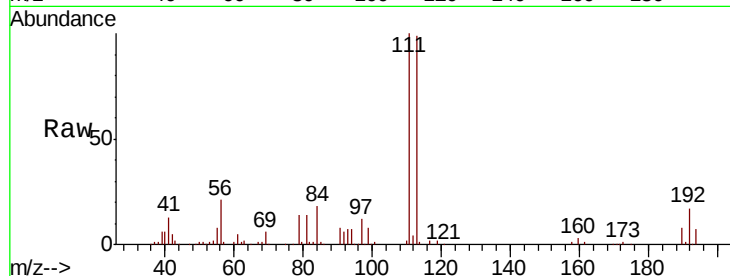
Tot Ion:113 Resp: 454680

Ion Ratio Lower Upper

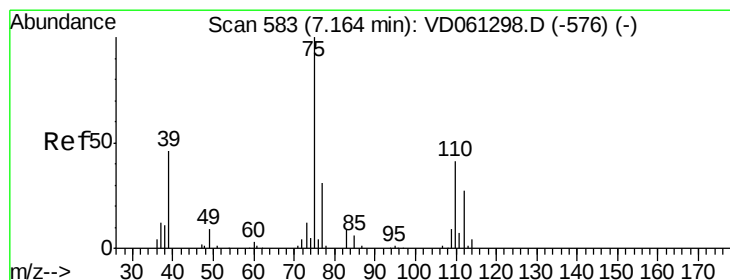
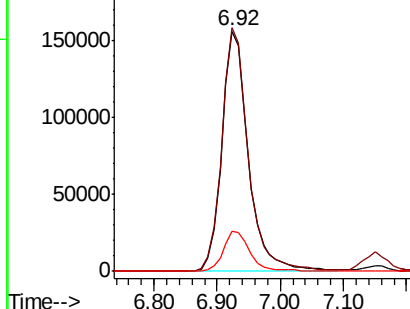
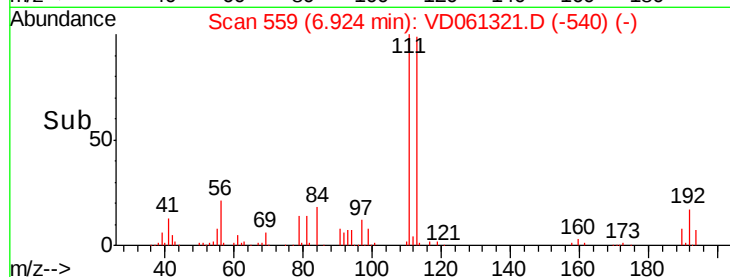
113 100

111 101.5 83.7 125.5

192 16.8 13.4 20.0



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 56.985 ug/l

RT: 7.15 min Scan# 582

Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

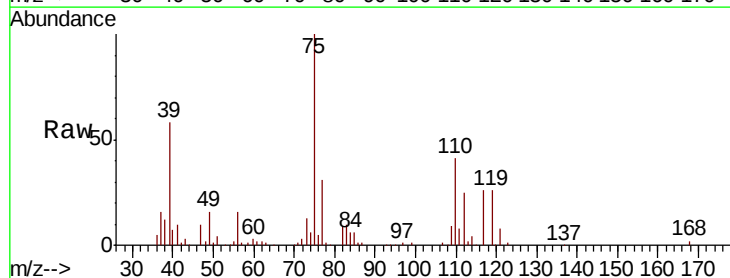
Tgt Ion: 75 Resp: 441926

Ion Ratio Lower Upper

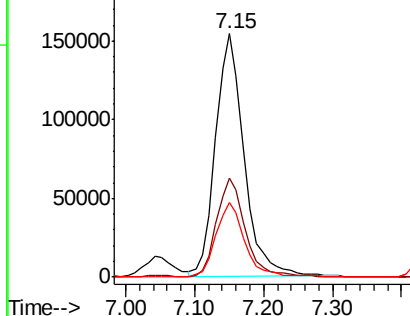
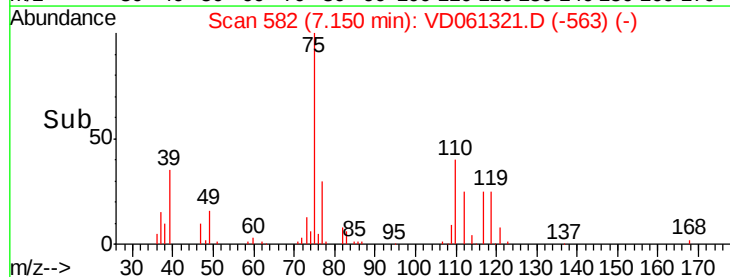
75 100

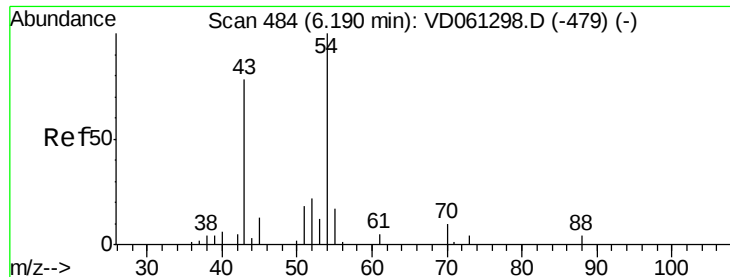
110 40.8 20.1 60.2

77 30.8 24.3 36.5



Abundance Ion 75.00 (74.70 to 75.70): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): V

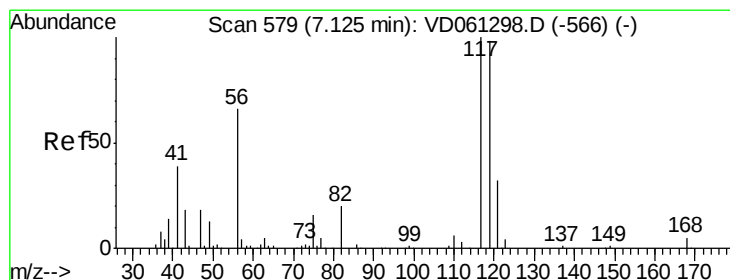
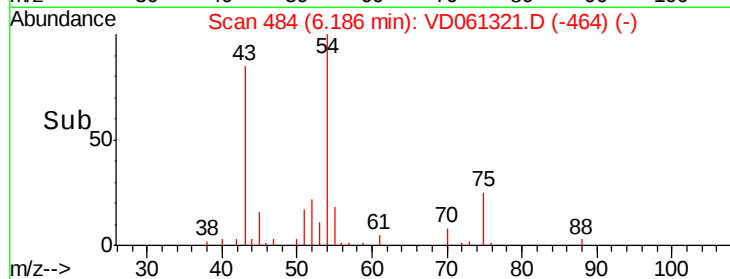
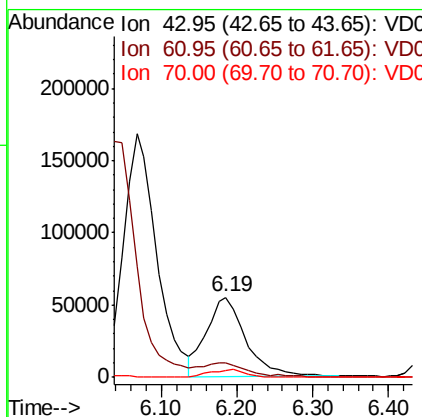
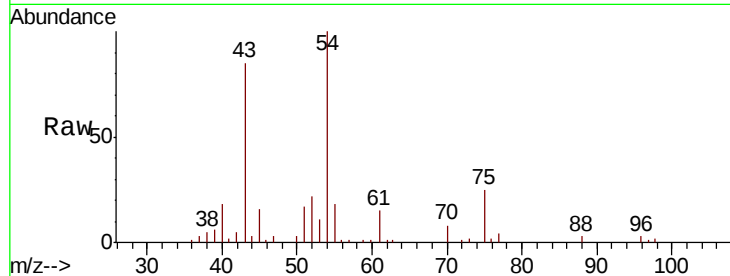




#37
Ethyl Acetate
Concen: 61.264 ug/l
RT: 6.19 min Scan# 484
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

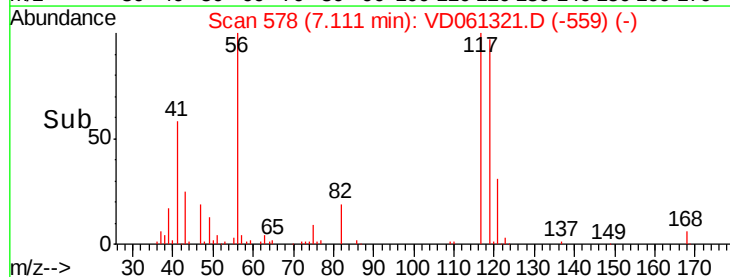
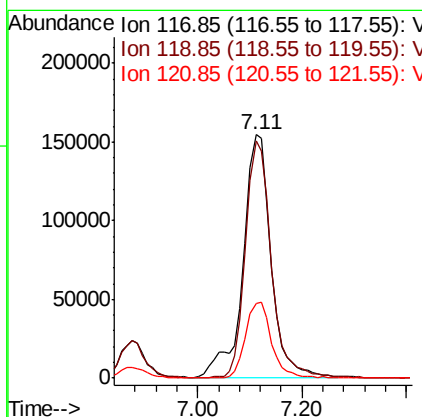
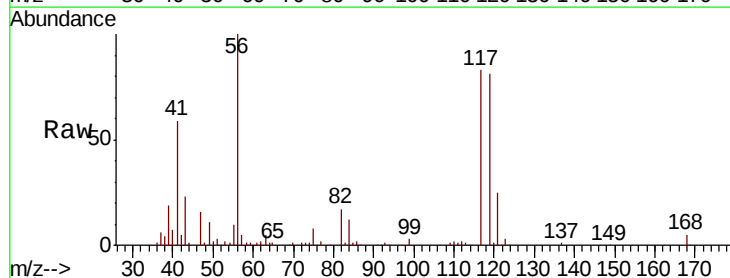
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

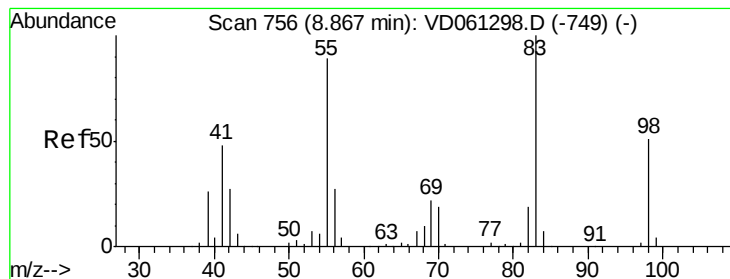
Tot Ion: 43 Resp: 198446
Ion Ratio Lower Upper
43 100
61 18.1 12.6 19.0
70 9.0 8.2 12.4



#38
Carbon Tetrachloride
Concen: 62.705 ug/l
RT: 7.11 min Scan# 578
Delta R.T. -0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 117 Resp: 555785
Ion Ratio Lower Upper
117 100
119 97.6 78.4 117.6
121 30.6 25.1 37.7





#39

Methvlcvclohexane

Concen: 51.223 ug/l

RT: 8.86 min Scan# 756

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

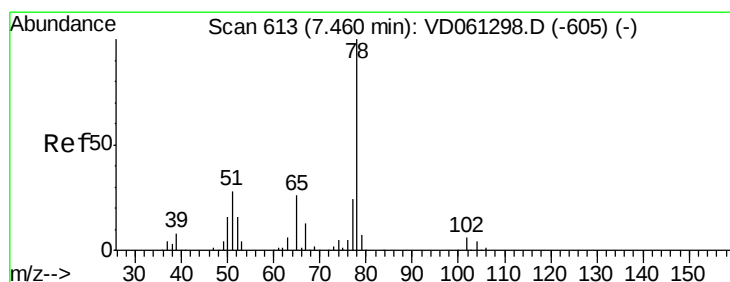
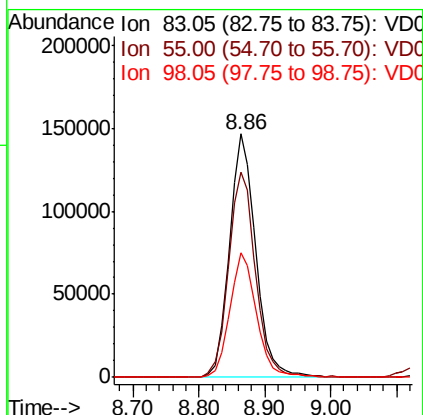
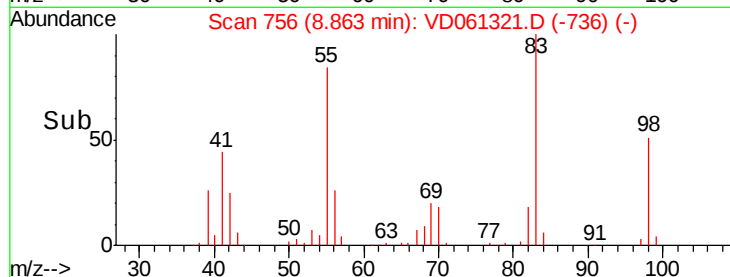
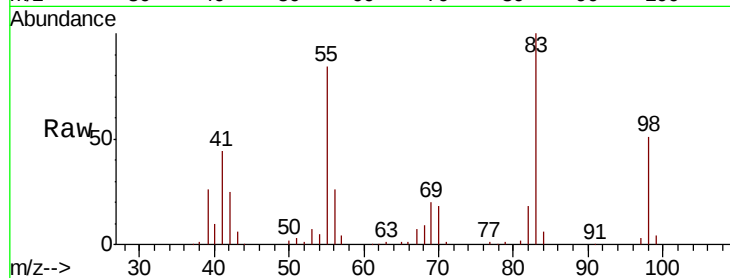
Tot Ion: 83 Resp: 411412

Ion Ratio Lower Upper

83 100

55 84.4 71.3 106.9

98 50.9 40.4 60.6



#40

Benzene

Concen: 63.481 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD061321.D

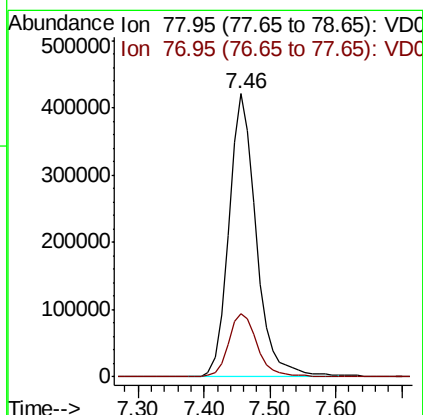
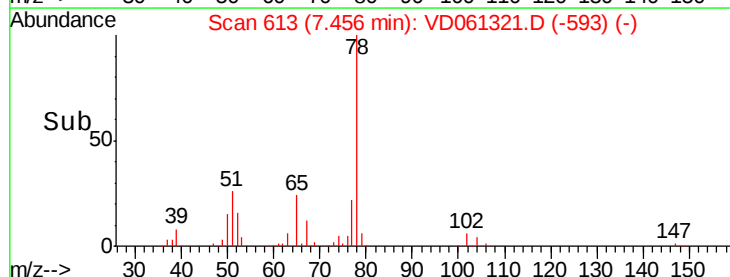
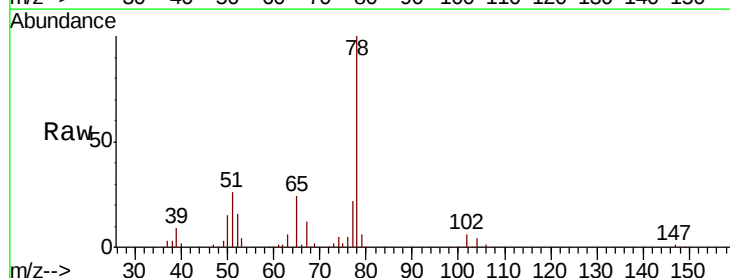
Acq: 26 Mar 2019 2:26

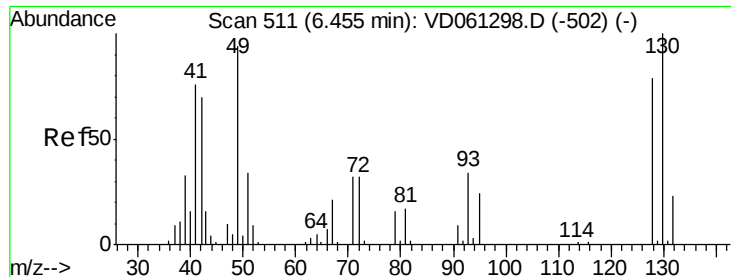
Tgt Ion: 78 Resp: 1222666

Ion Ratio Lower Upper

78 100

77 22.5 18.8 28.2

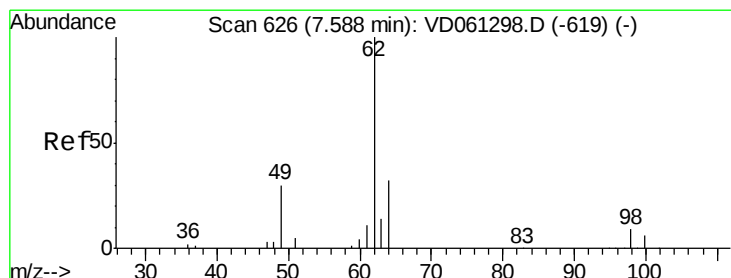
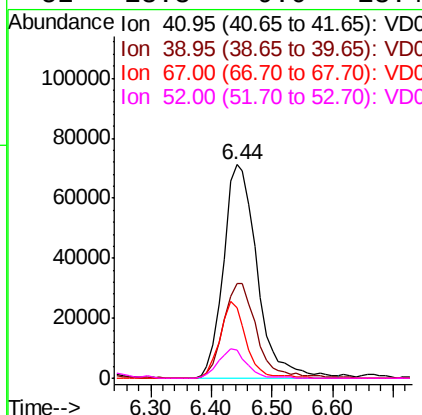
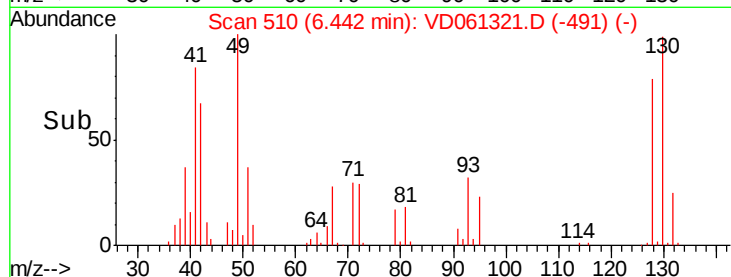
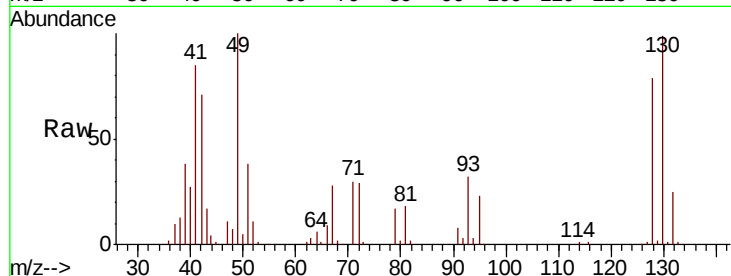




#41
Methacrylonitrile
Concen: 73.128 ug/l
RT: 6.44 min Scan# 510
Delta R.T. -0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

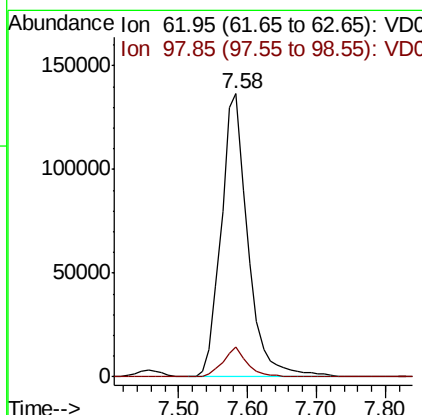
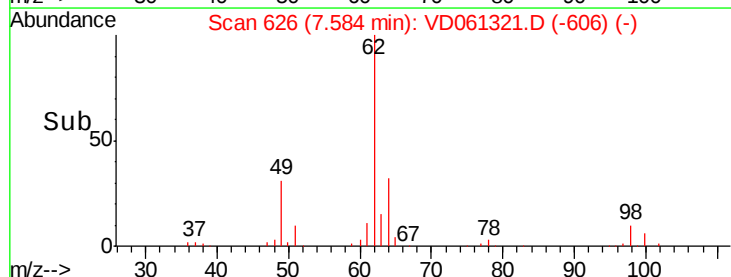
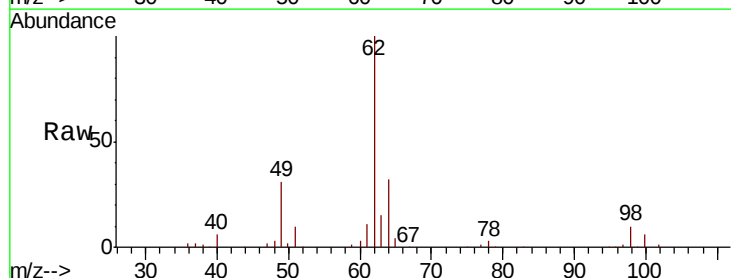
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

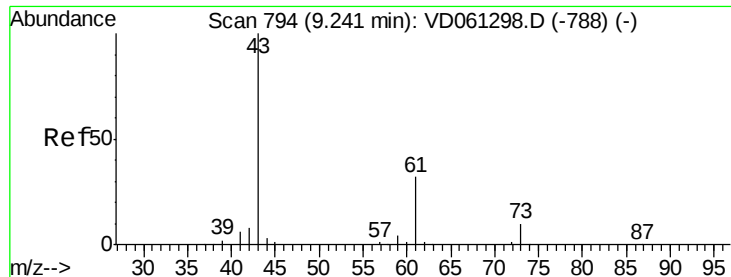
Tot Ion: 41 Resp: 275261
Ion Ratio Lower Upper
41 100
39 44.6 34.2 51.2
67 33.1 21.8 32.6#
52 13.3 9.0 13.4



#42
1,2-Dichloroethane
Concen: 61.284 ug/l
RT: 7.58 min Scan# 626
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 62 Resp: 367863
Ion Ratio Lower Upper
62 100
98 10.4 0.0 18.6





#43

Isopropyl Acetate

Concen: 59.568 ug/l

RT: 9.24 min Scan# 794

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

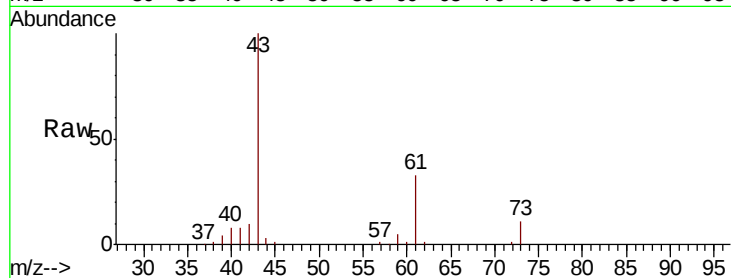
Tot Ion: 43 Resp: 278212

Ion Ratio Lower Upper

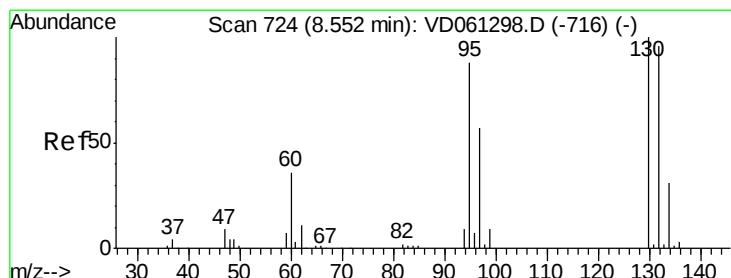
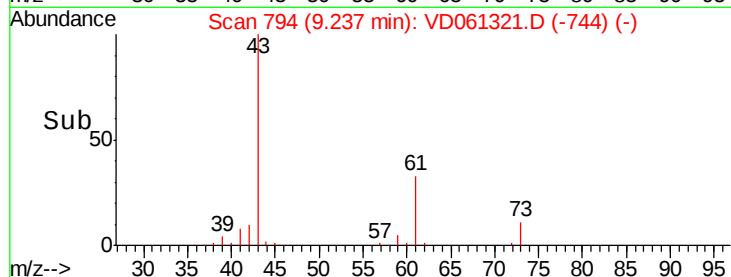
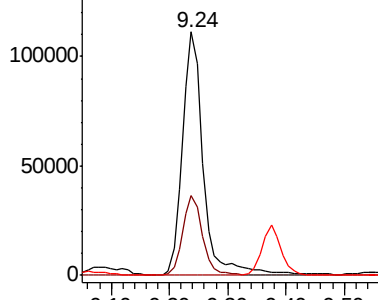
43 100

61 32.6 25.8 38.8

87 0.0 0.3 0.5#



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: 63.343 ug/l

RT: 8.54 min Scan# 723

Delta R.T. -0.01 min

Lab File: VD061321.D

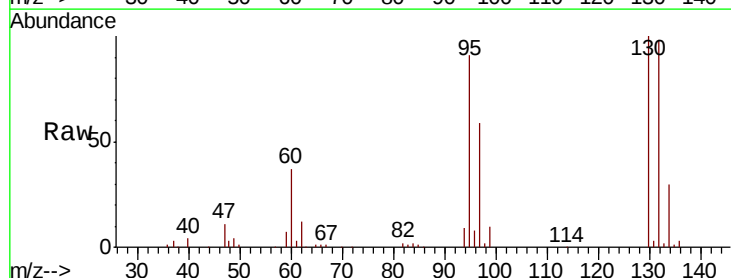
Acq: 26 Mar 2019 2:26

Tgt Ion: 130 Resp: 441221

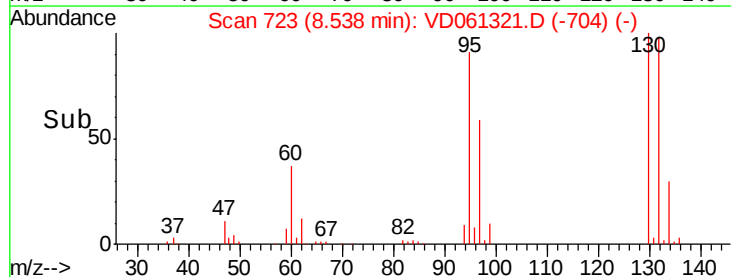
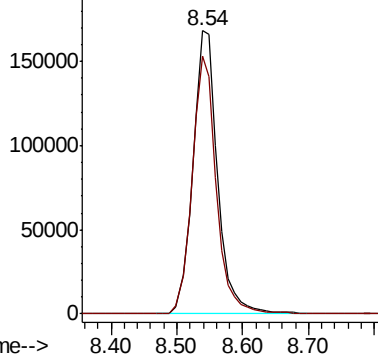
Ion Ratio Lower Upper

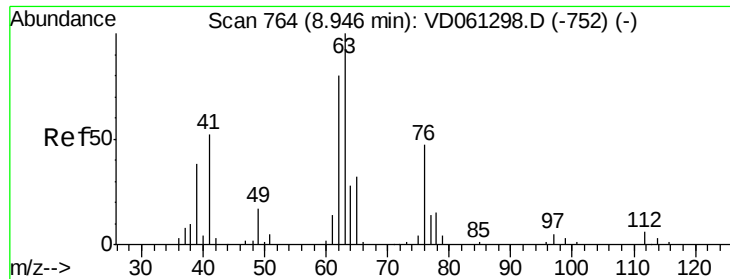
130 100

95 91.2 0.0 175.0



Abundance Ion 129.80 (129.50 to 130.50): VDC
Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 68.411 ug/l

RT: 8.94 min Scan# 764

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

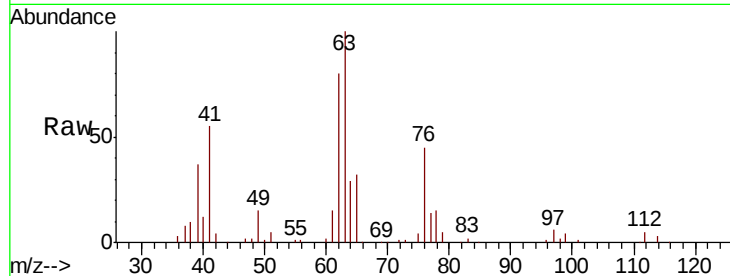
WP022SB439-190318-(13-14)MSD

Tot Ion: 63 Resp: 325199

Ion Ratio Lower Upper

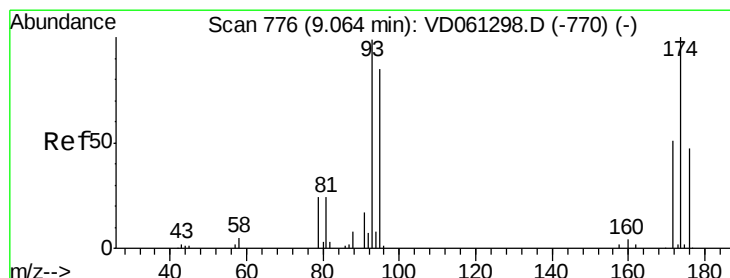
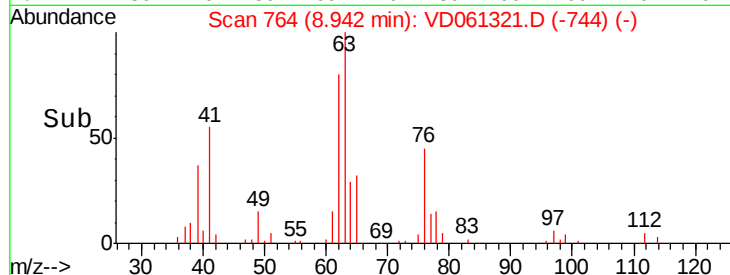
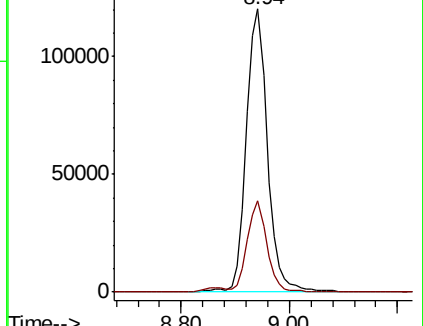
63 100

65 32.2 25.2 37.8



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 67.300 ug/l

RT: 9.06 min Scan# 776

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

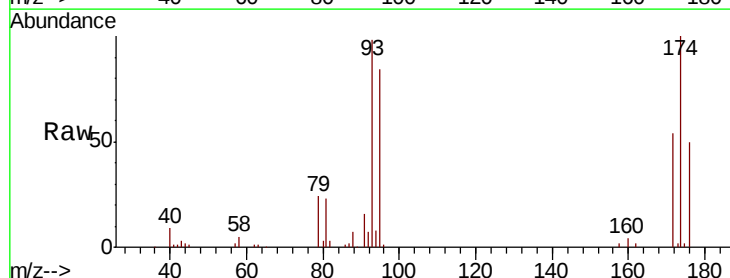
Tgt Ion: 93 Resp: 219290

Ion Ratio Lower Upper

93 100

95 85.6 68.1 102.1

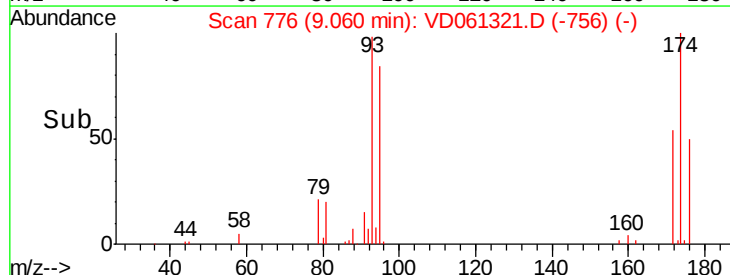
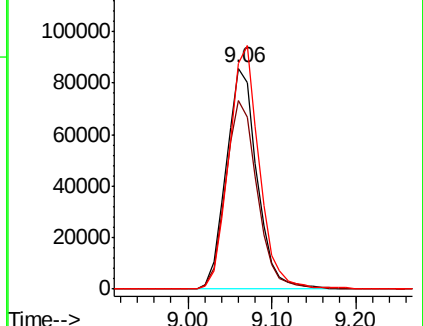
174 102.4 80.4 120.6

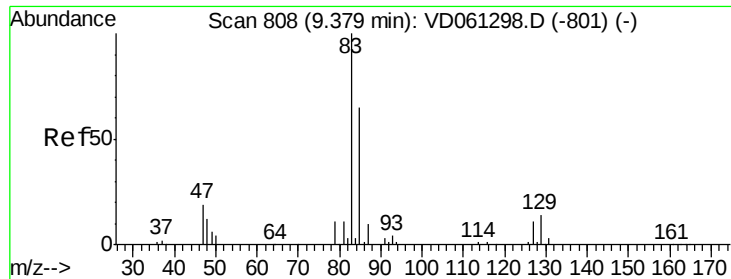


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 65.904 ug/l

RT: 9.38 min Scan# 808

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

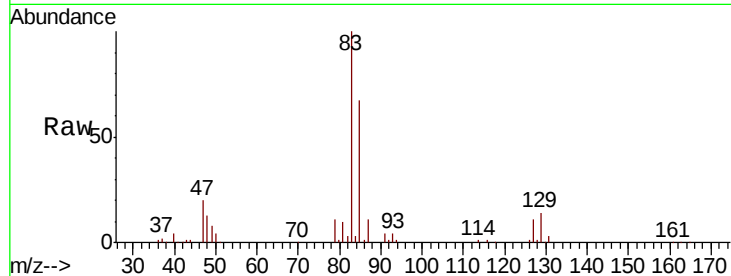
Tot Ion: 83 Resp: 503328

Ion Ratio Lower Upper

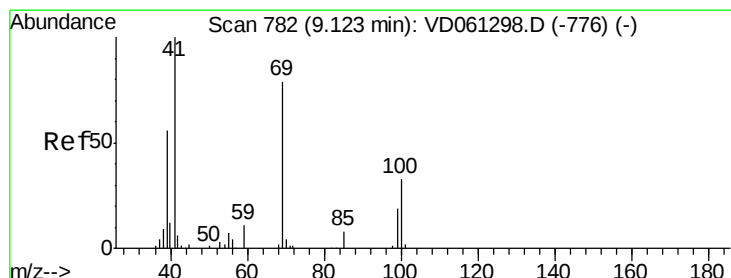
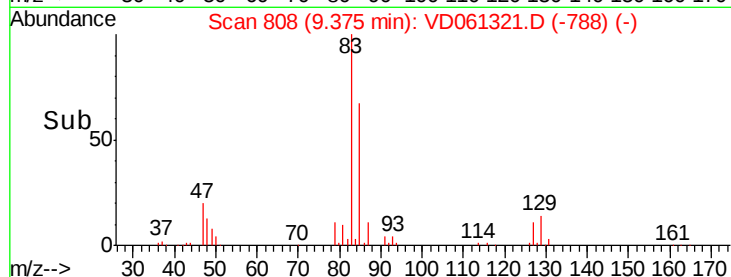
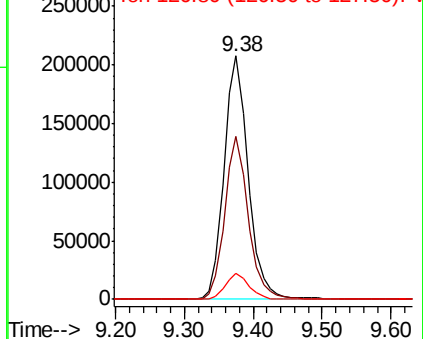
83 100

85 66.9 51.7 77.5

127 10.9 8.8 13.2



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: 71.392 ug/l

RT: 9.12 min Scan# 782

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

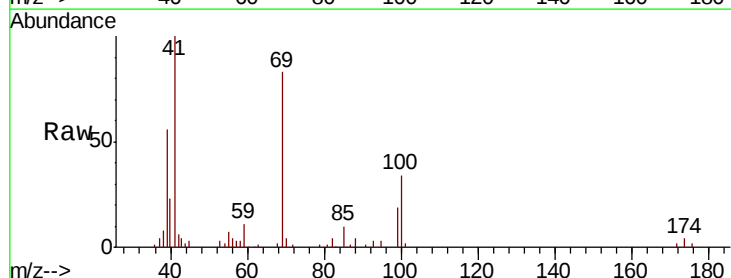
Tgt Ion: 41 Resp: 177969

Ion Ratio Lower Upper

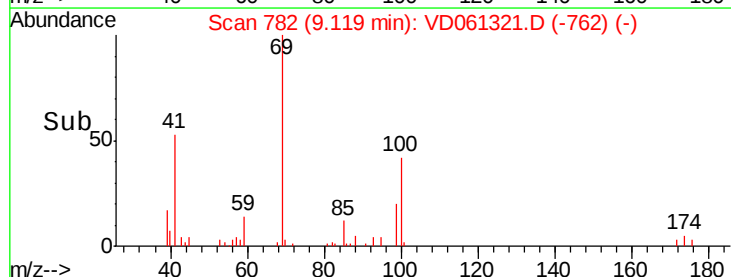
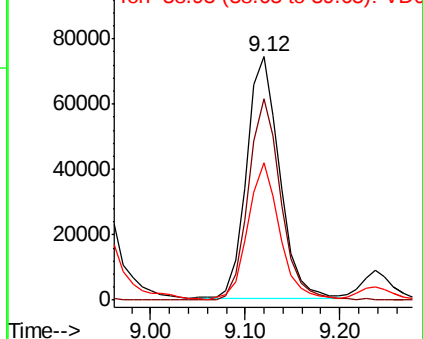
41 100

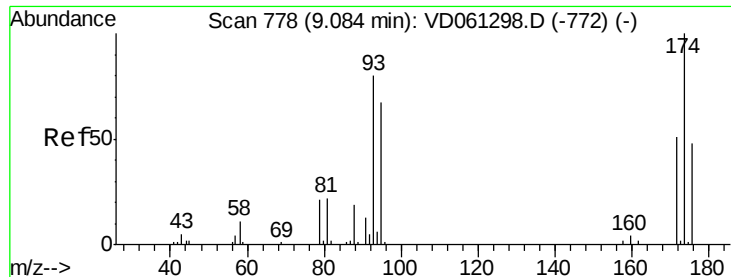
69 82.7 62.4 93.6

39 56.2 44.9 67.3



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

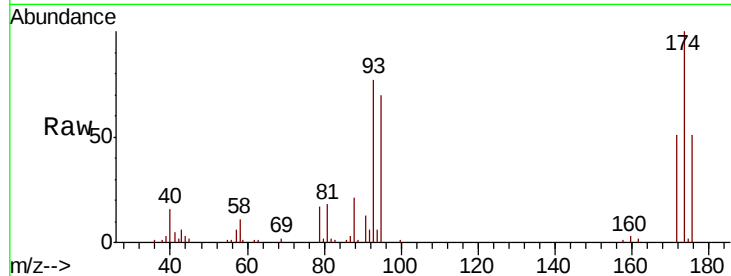




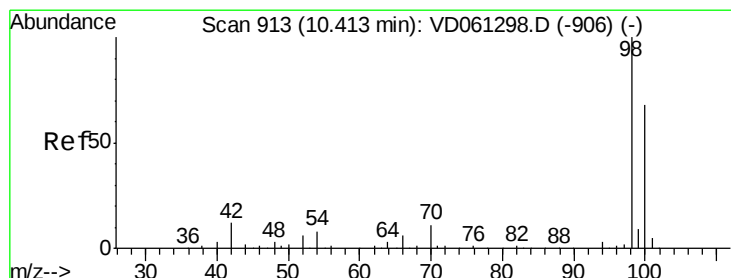
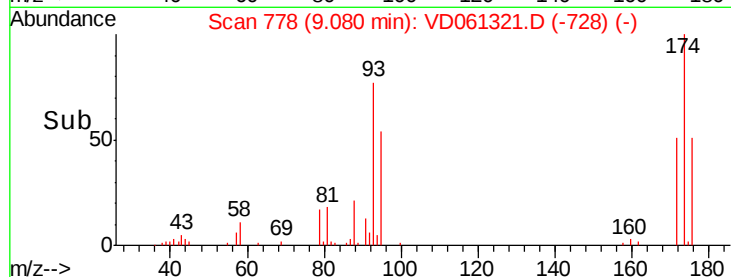
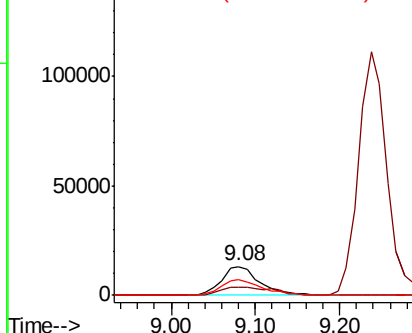
#49
1,4-Dioxane
Concen: 1486.294 ug/l
RT: 9.08 min Scan# 778
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion: 88 Resp: 40652
Ion Ratio Lower Upper
88 100
43 29.2 20.7 31.1
58 55.1 44.9 67.3

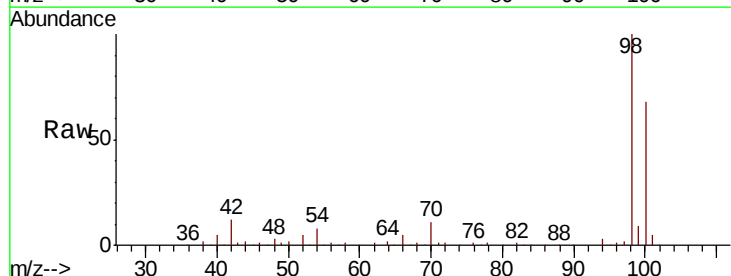


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

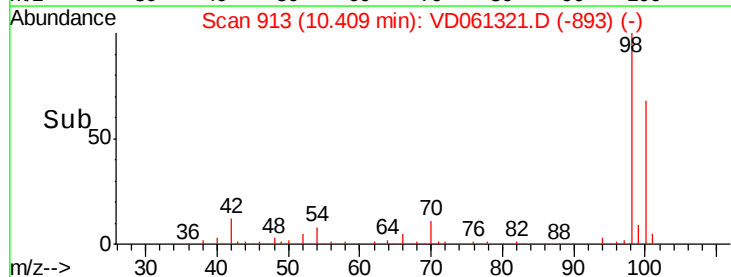
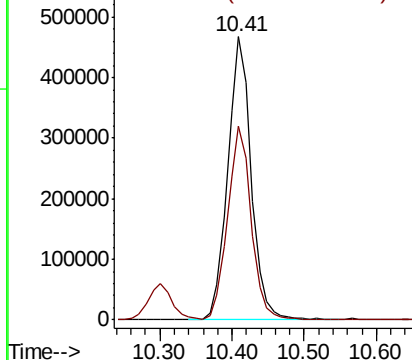


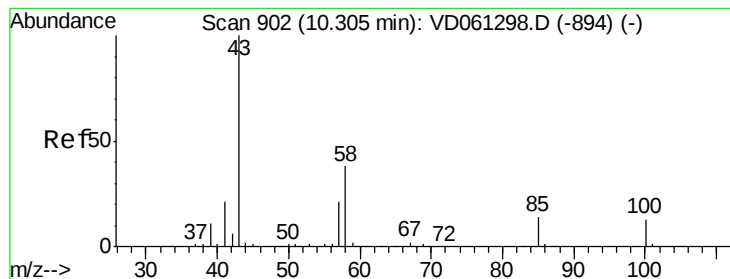
#50
Toluene-d8
Concen: 1486.294 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 98 Resp: 1055475
Ion Ratio Lower Upper
98 100
100 68.4 55.4 83.0



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: 366.739 ug/l

RT: 10.30 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

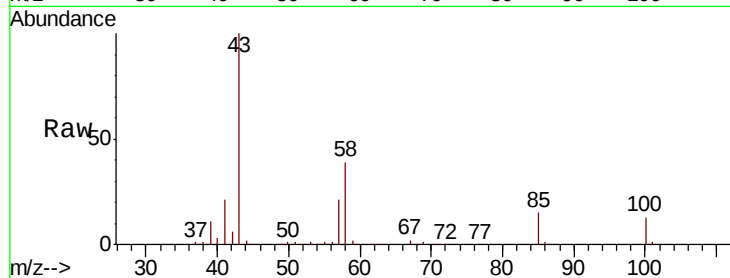
WP022SB439-190318-(13-14)MSD

Tot Ion: 43 Resp: 1019656

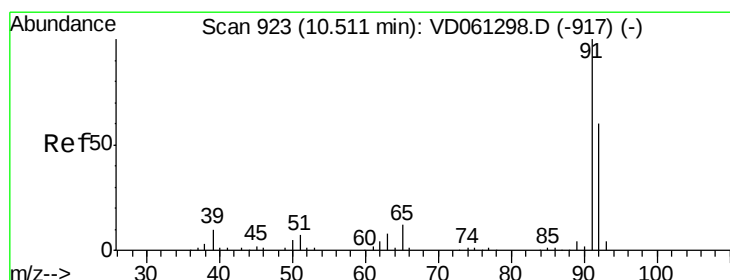
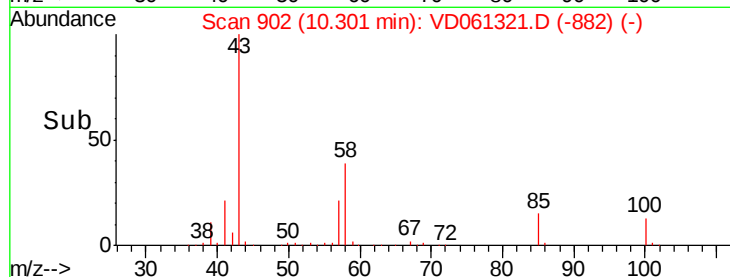
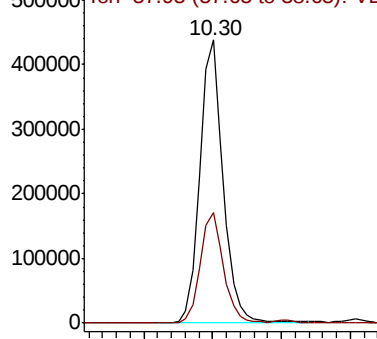
Ion Ratio Lower Upper

43 100

58 39.1 30.6 45.8



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



#52

Toluene

Concen: 65.841 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: VD061321.D

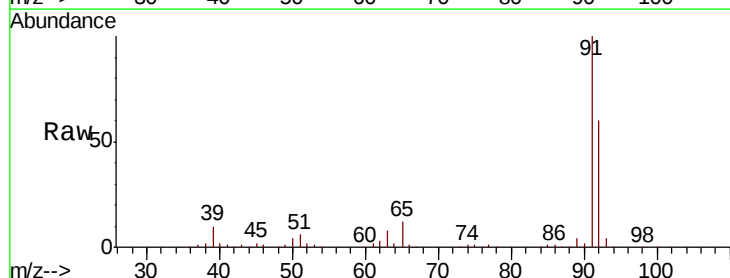
Acq: 26 Mar 2019 2:26

Tgt Ion: 92 Resp: 775929

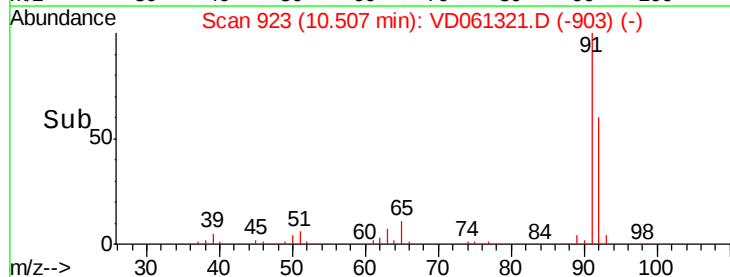
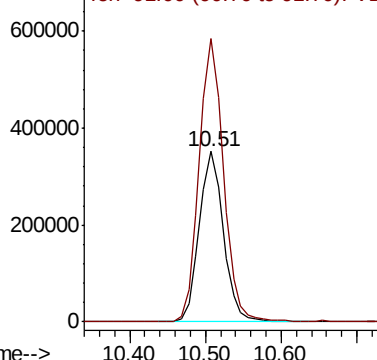
Ion Ratio Lower Upper

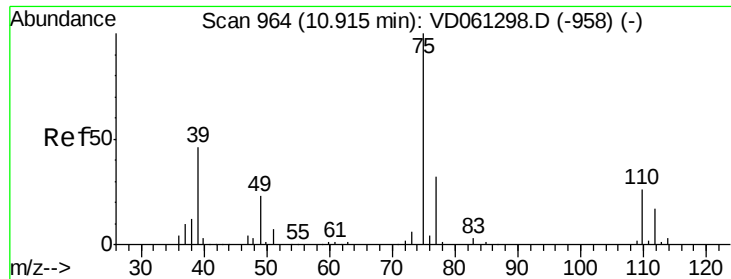
92 100

91 166.2 133.1 199.7



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC

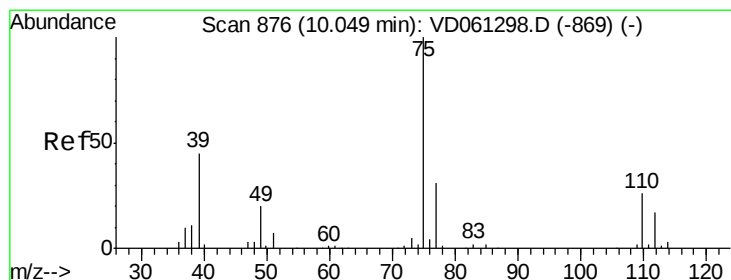
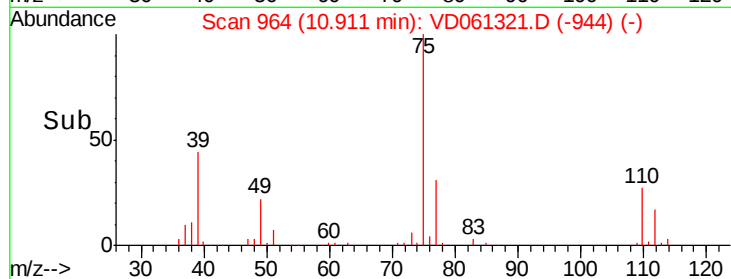
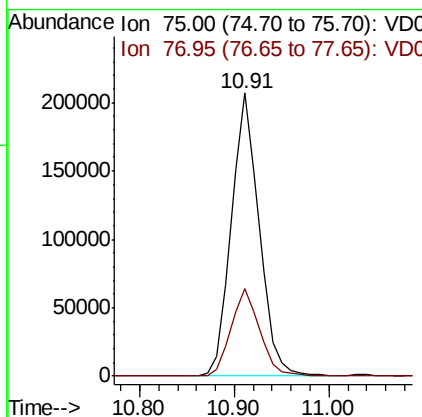
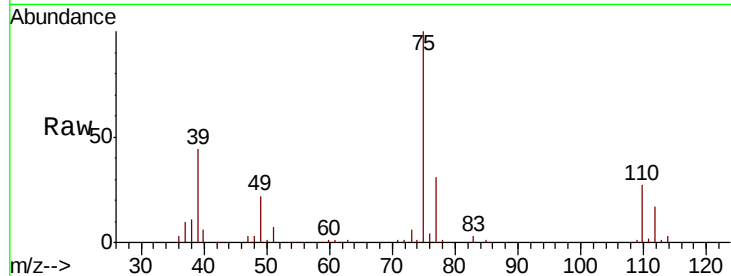




#53
 t-1,3-Dichloropropene
 Concen: 63.443 ug/l
 RT: 10.91 min Scan# 964
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

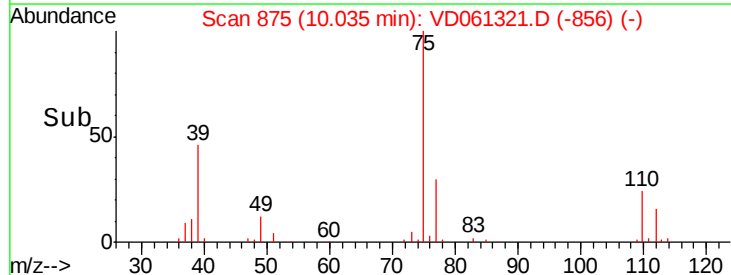
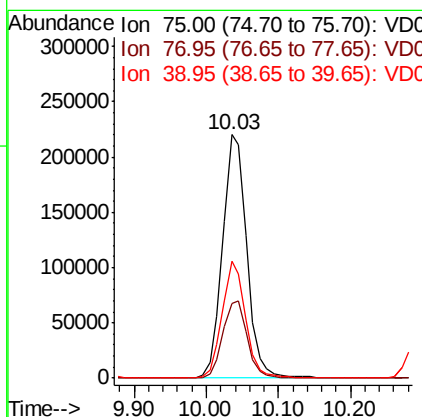
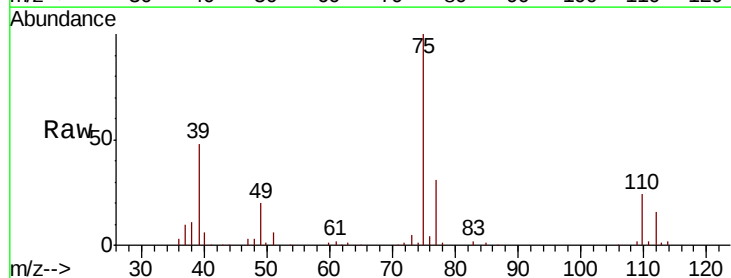
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

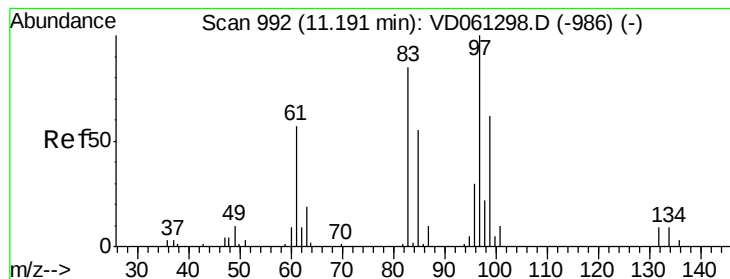
Tot Ion: 75 Resp: 421087
 Ion Ratio Lower Upper
 75 100
 77 31.0 25.8 38.6



#54
 cis-1,3-Dichloropropene
 Concen: 63.225 ug/l
 RT: 10.03 min Scan# 875
 Delta R.T. -0.01 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion: 75 Resp: 512420
 Ion Ratio Lower Upper
 75 100
 77 30.5 24.9 37.3
 39 48.0 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 66.129 ug/l

RT: 11.19 min Scan# 992

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 97 Resp: 258734

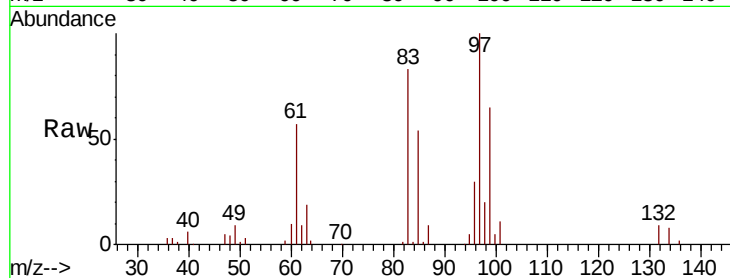
Ion Ratio Lower Upper

97 100

83 83.3 67.7 101.5

85 54.1 43.8 65.8

99 65.2 49.8 74.6

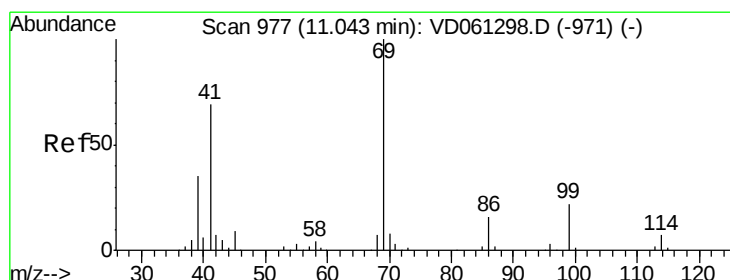
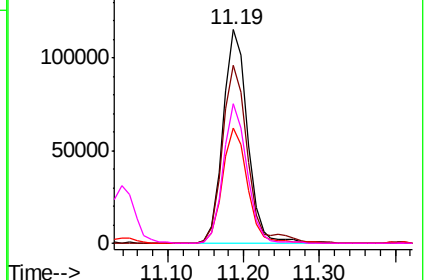
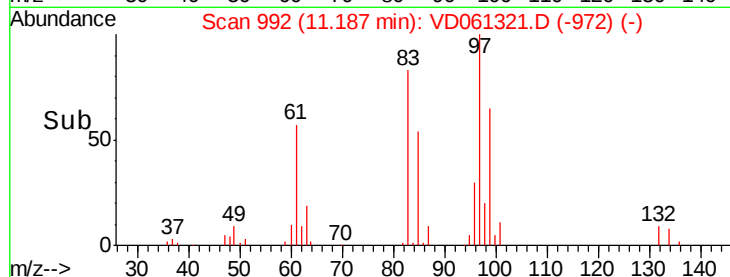


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 71.922 ug/l

RT: 11.04 min Scan# 977

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

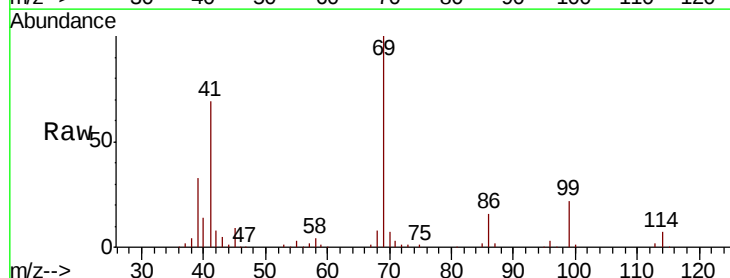
Tgt Ion: 69 Resp: 300277

Ion Ratio Lower Upper

69 100

41 68.8 54.9 82.3

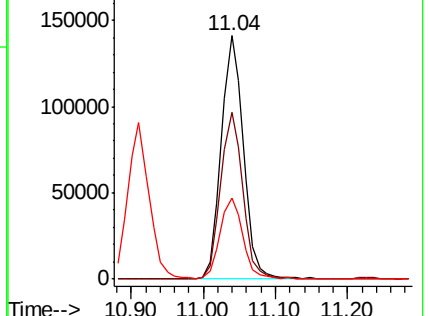
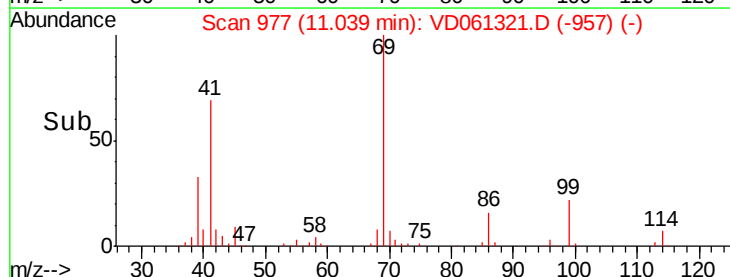
39 33.4 28.5 42.7

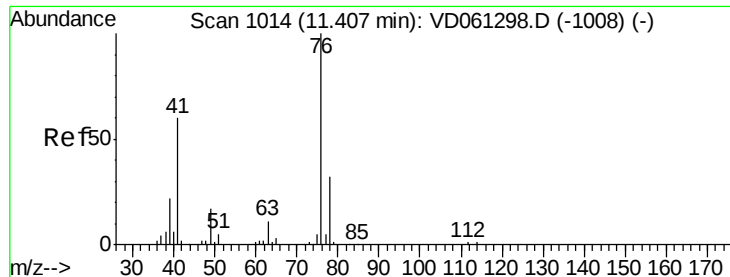


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 65.414 ug/l

RT: 11.40 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

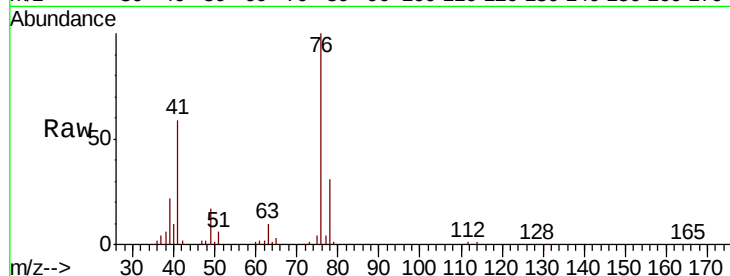
WP022SB439-190318-(13-14)MSD

Tot Ion: 76 Resp: 386531

Ion Ratio Lower Upper

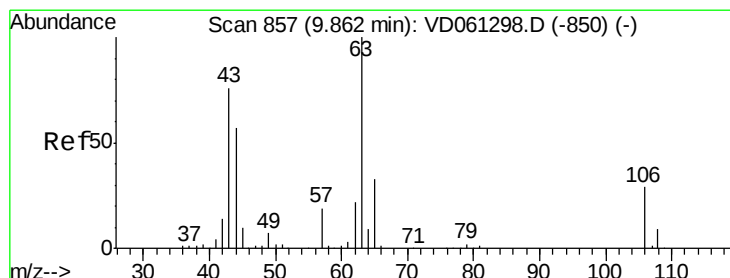
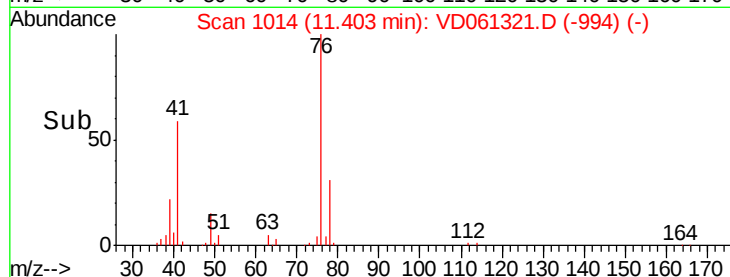
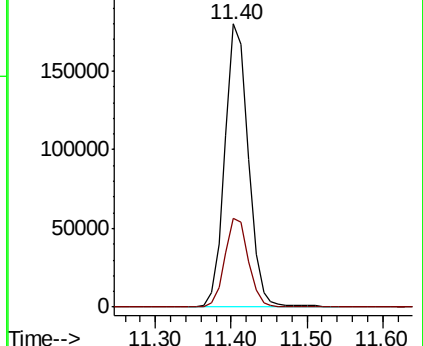
76 100

78 31.2 25.7 38.5



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: 329.797 ug/l

RT: 9.86 min Scan# 857

Delta R.T. -0.00 min

Lab File: VD061321.D

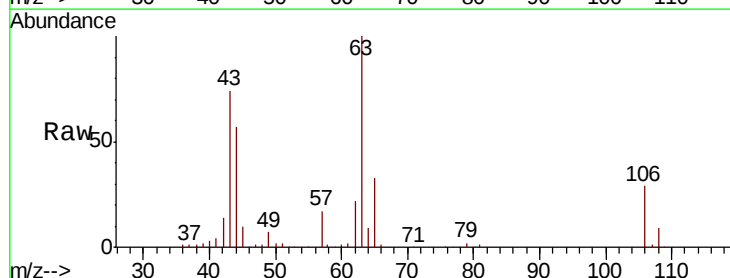
Acq: 26 Mar 2019 2:26

Tgt Ion: 63 Resp: 716325

Ion Ratio Lower Upper

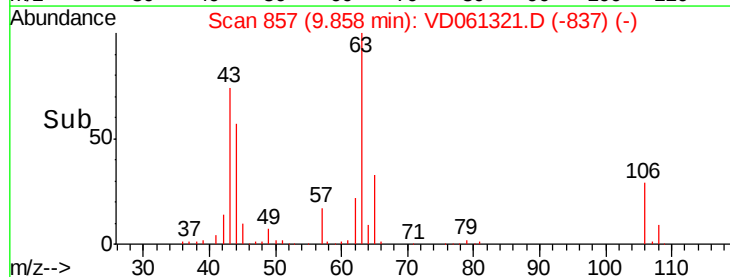
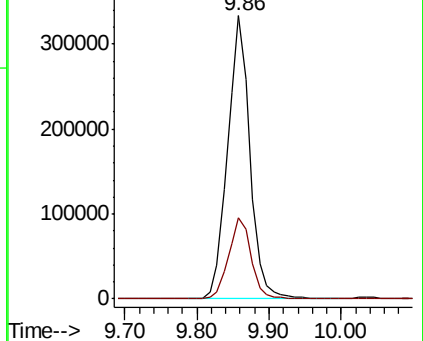
63 100

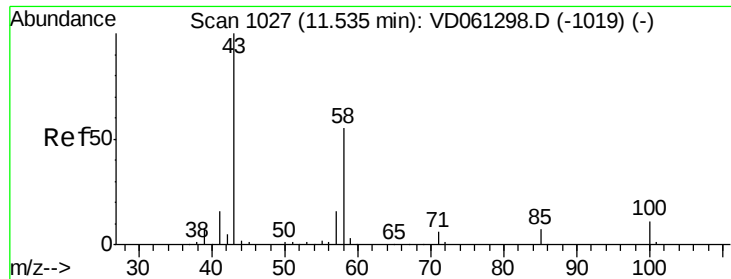
106 28.7 23.4 35.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

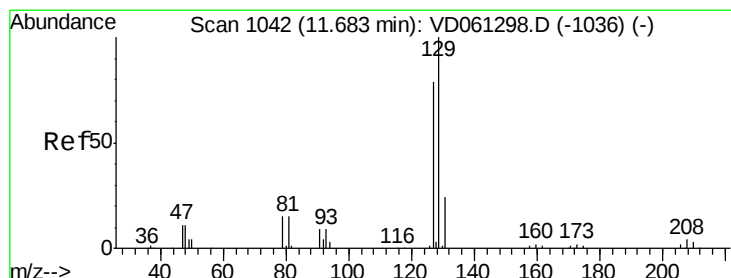
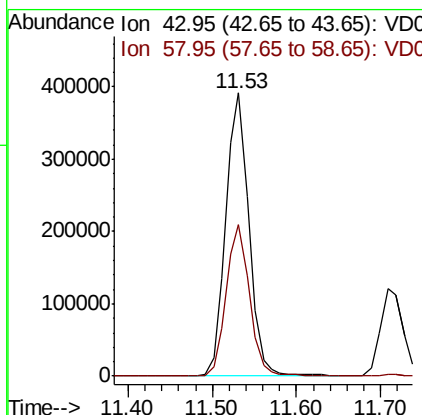
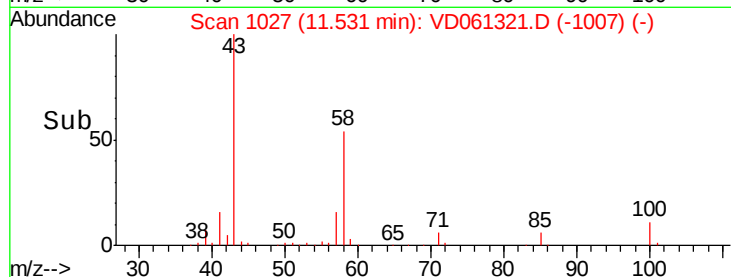
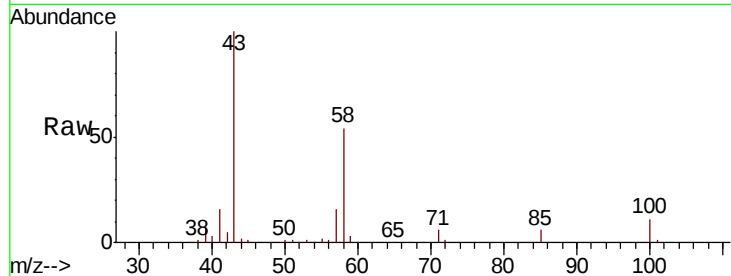




#59
2-Hexanone
Concen: 371.733 ug/l
RT: 11.53 min Scan# 1027
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

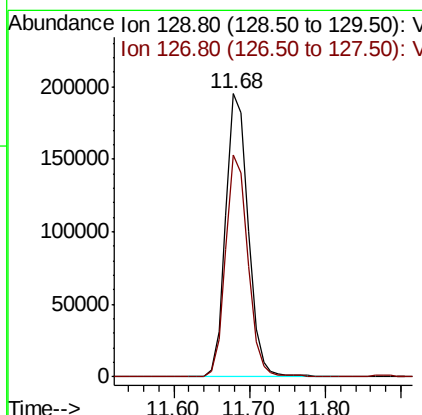
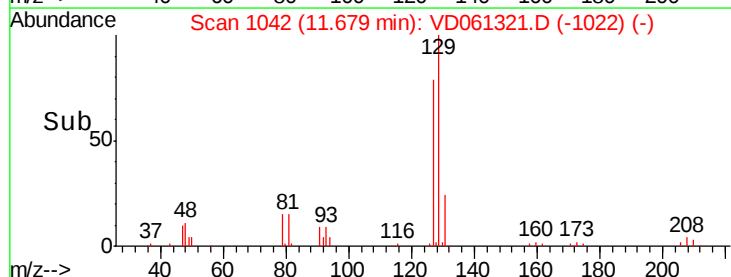
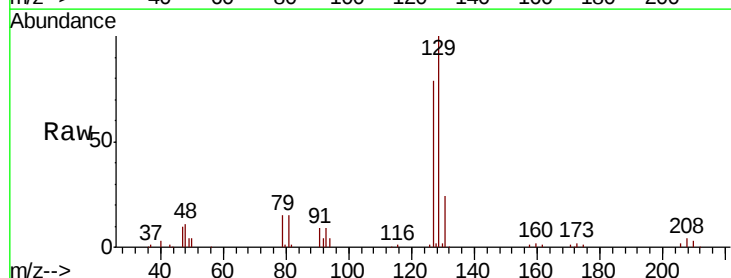
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

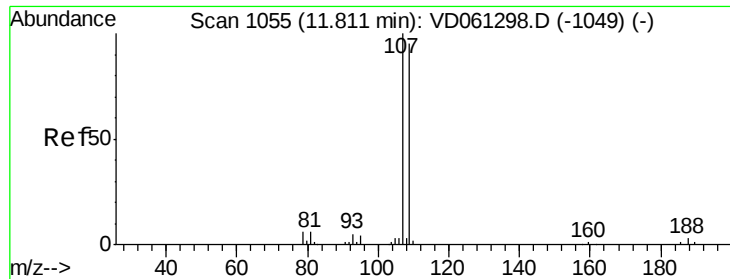
Tot Ion: 43 Resp: 750650
Ion Ratio Lower Upper
43 100
58 53.7 27.4 82.0



#60
Dibromochloromethane
Concen: 65.577 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 129 Resp: 401858
Ion Ratio Lower Upper
129 100
127 78.6 39.6 119.0

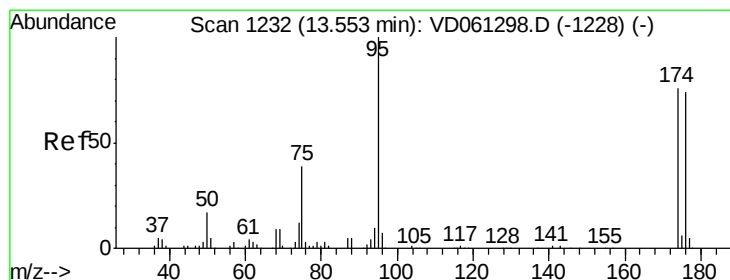
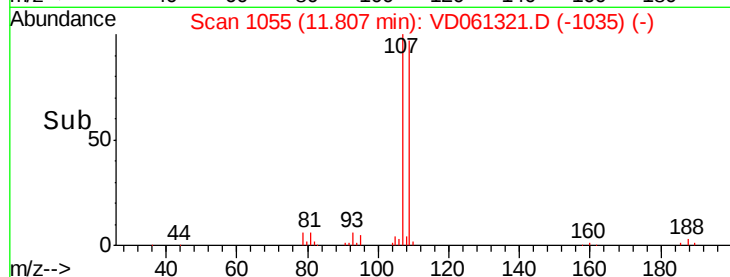
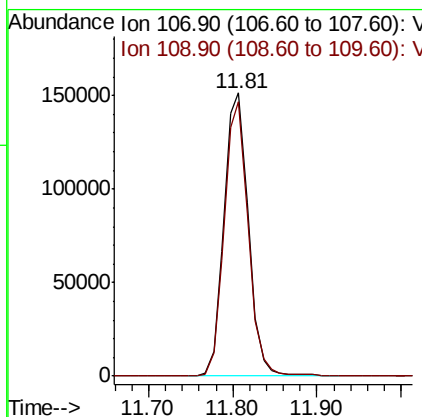
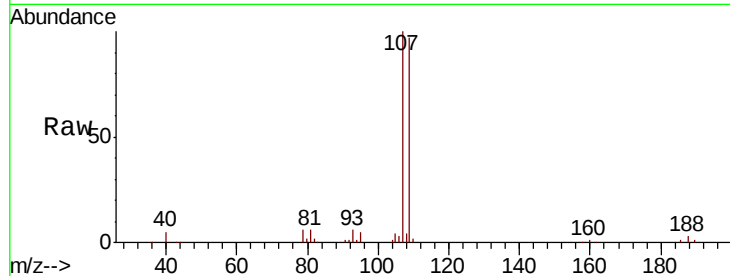




#61
 1,2-Dibromoethane
 Concen: 66.562 ug/l
 RT: 11.81 min Scan# 1055
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

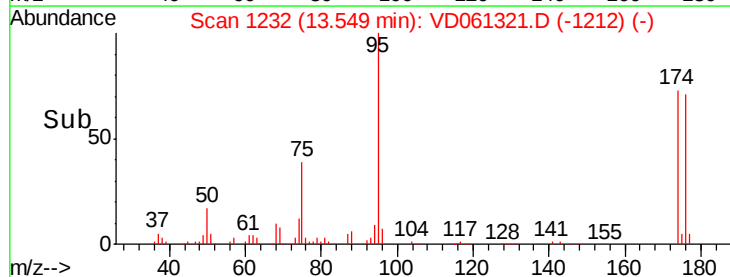
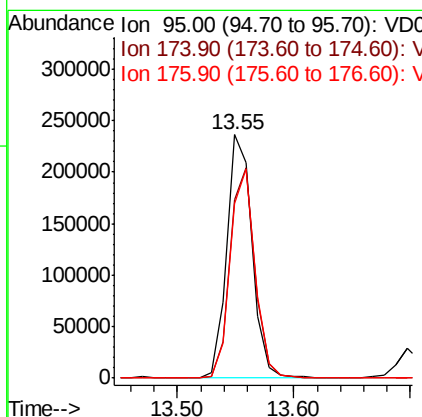
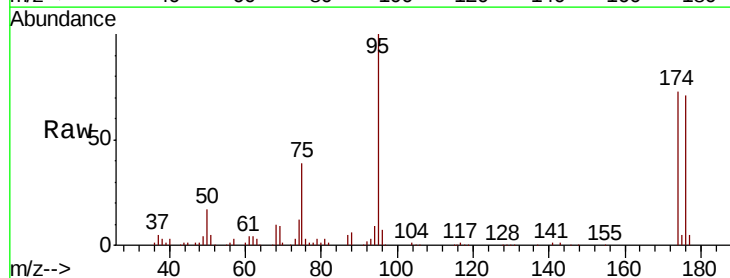
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

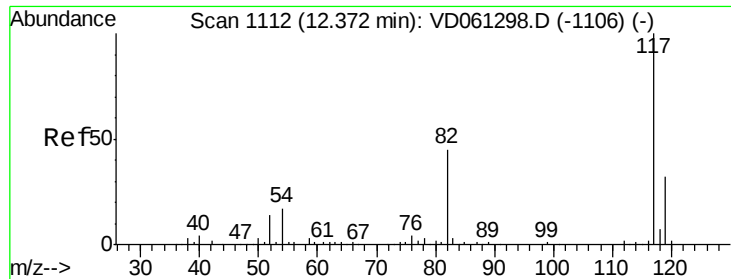
Tot Ion: 107 Resp: 304289
 Ion Ratio Lower Upper
 107 100
 109 97.0 76.1 114.1



#62
 4-Bromofluorobenzene
 Concen: 66.562 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion: 95 Resp: 357389
 Ion Ratio Lower Upper
 95 100
 174 73.0 0.0 151.8
 176 71.4 0.0 148.0

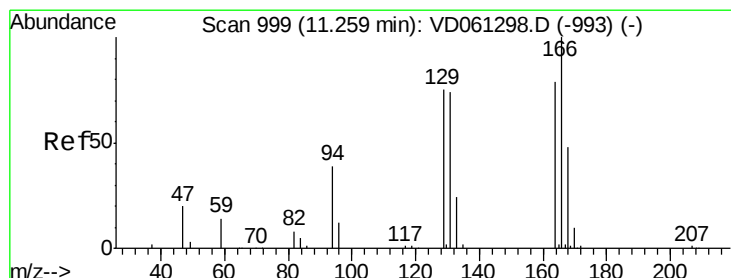
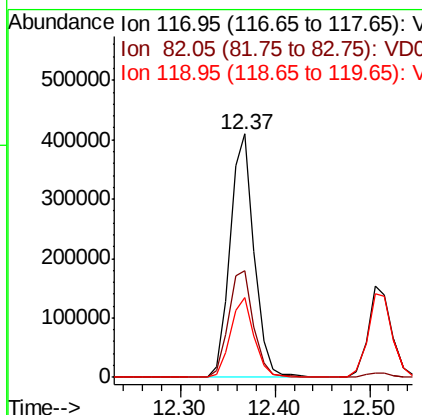
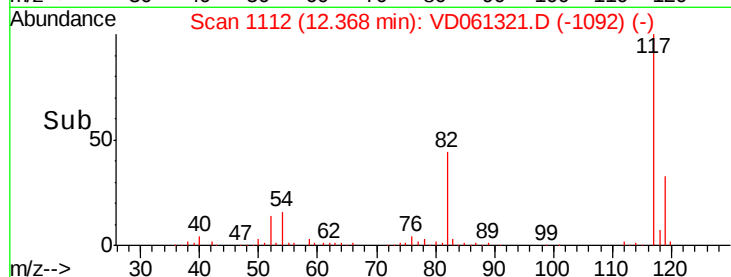
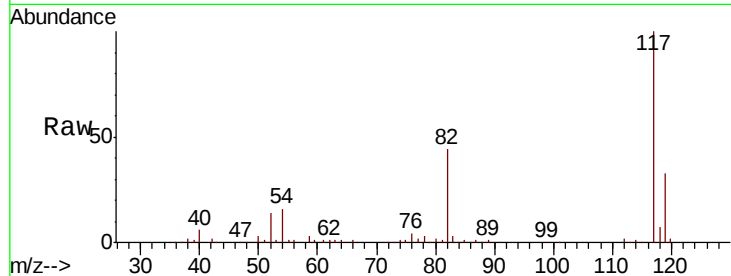




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

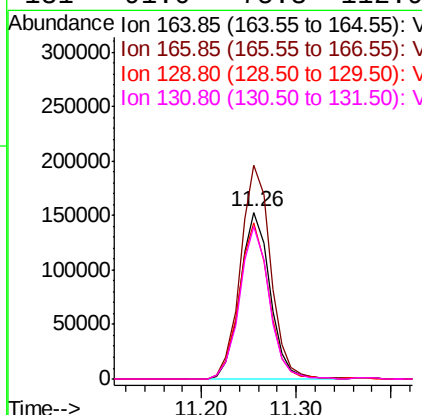
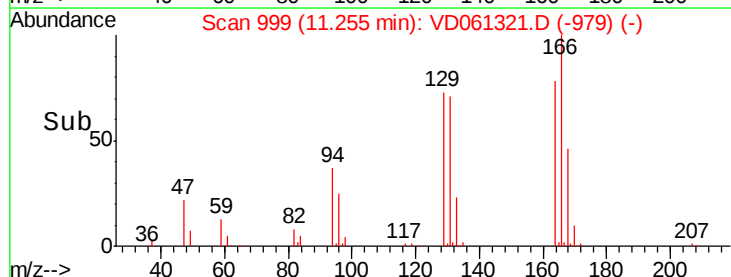
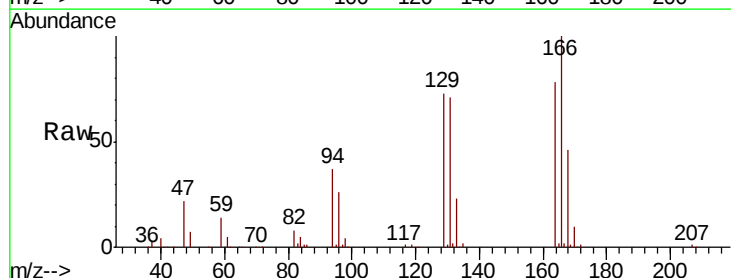
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

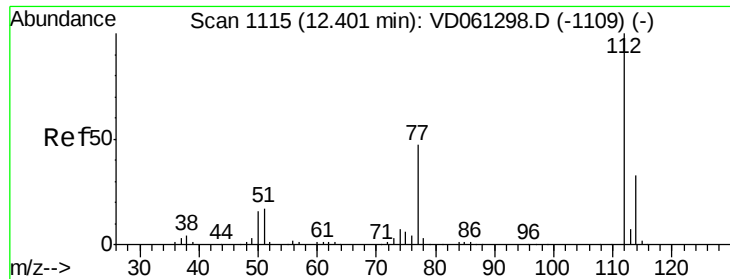
Tot Ion:117 Resp: 718861
Ion Ratio Lower Upper
117 100
82 44.0 35.7 53.5
119 32.6 25.9 38.9



#64
Tetrachloroethene
Concen: 67.692 ug/l
RT: 11.26 min Scan# 999
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion:164 Resp: 335212
Ion Ratio Lower Upper
164 100
166 128.1 101.6 152.4
129 93.6 75.9 113.9
131 91.0 75.3 112.9

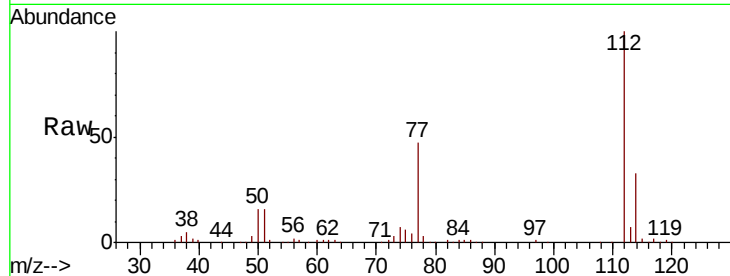




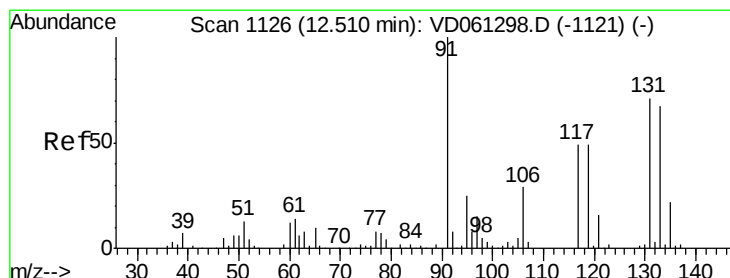
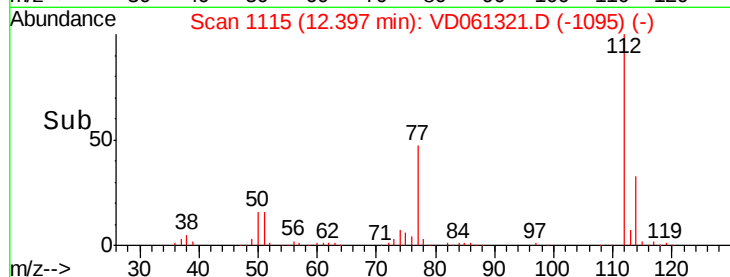
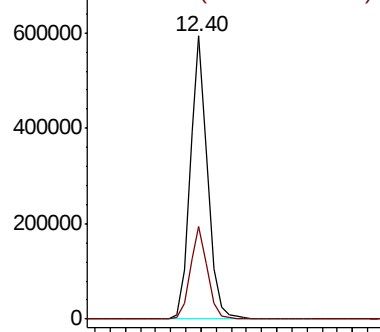
#65
Chlorobenzene
Concen: 71.576 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion:112 Resp: 947722
Ion Ratio Lower Upper
112 100
114 32.6 26.5 39.7

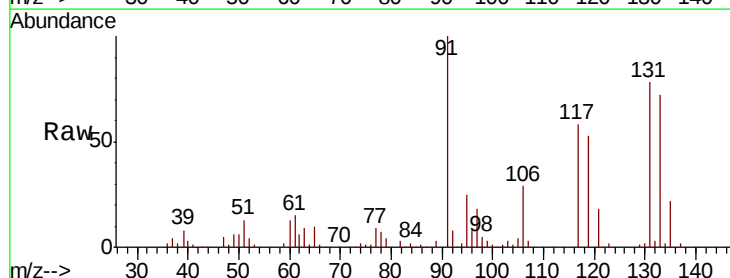


Abundance Ion 111.90 (111.60 to 112.60): V
Ion 114.00 (113.70 to 114.70): V

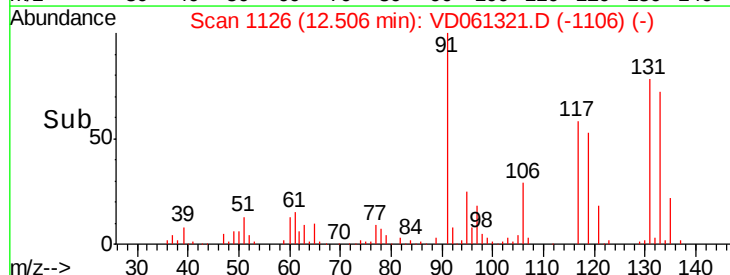
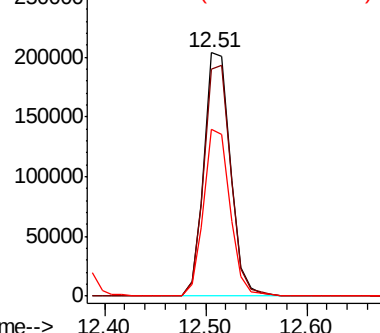


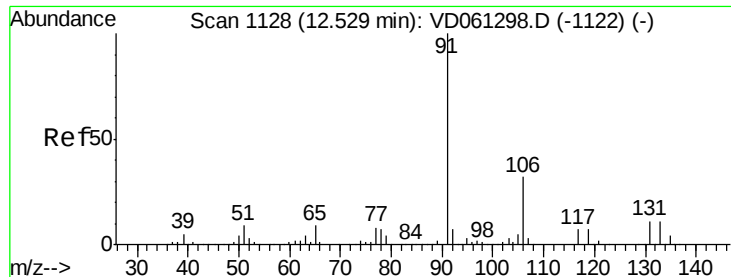
#66
1,1,1,2-Tetrachloroethane
Concen: 72.218 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion:131 Resp: 370733
Ion Ratio Lower Upper
131 100
133 93.2 47.0 141.2
119 68.7 34.8 104.5



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

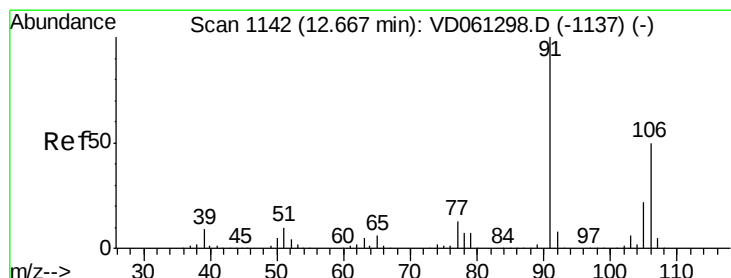
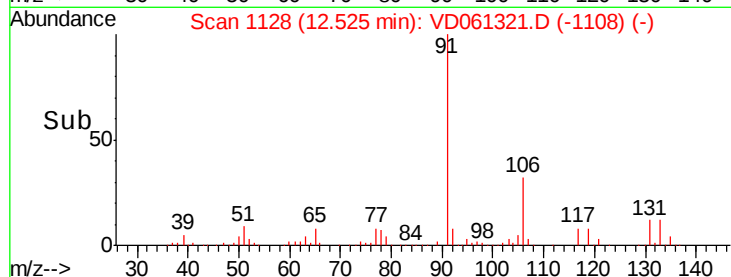
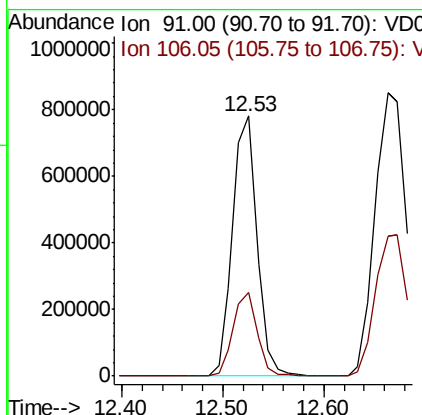
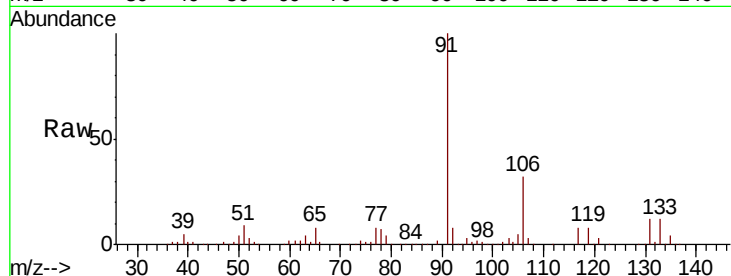




#67
Ethyl Benzene
Concen: 65.136 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

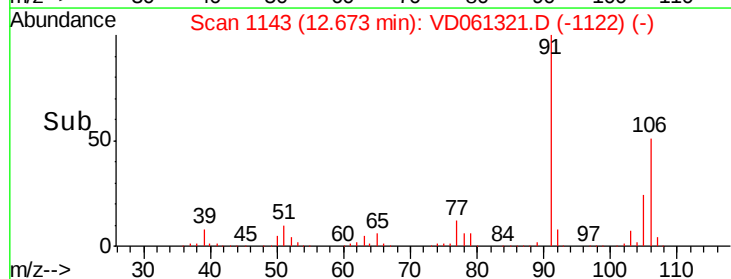
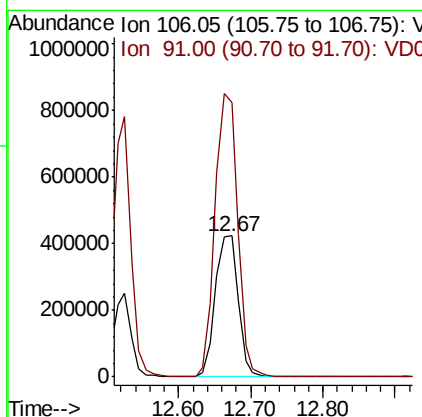
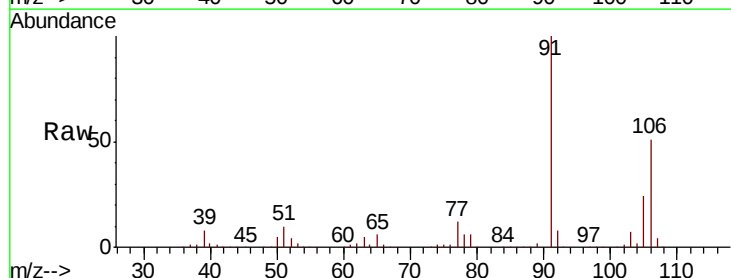
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

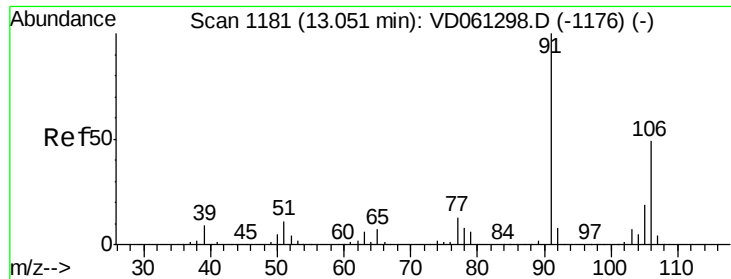
Tot Ion: 91 Resp: 1319889
Ion Ratio Lower Upper
91 100
106 32.4 25.8 38.8



#68
m/p-Xylenes
Concen: 116.965 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion:106 Resp: 925191
Ion Ratio Lower Upper
106 100
91 195.1 159.2 238.8

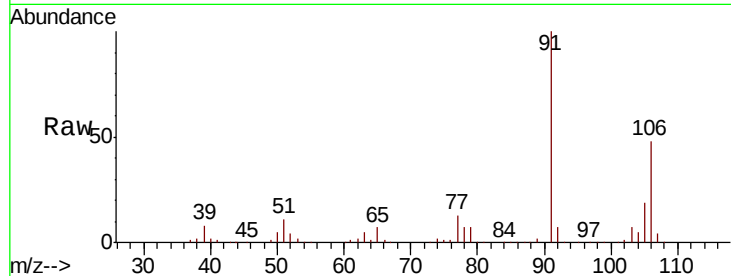




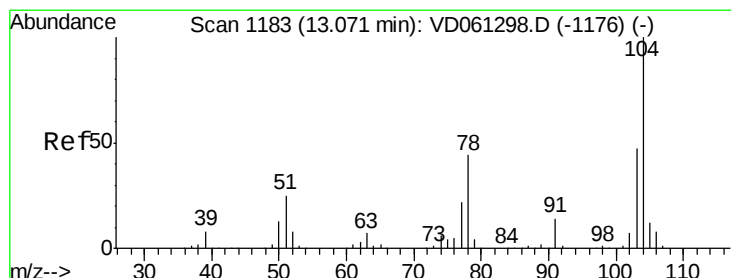
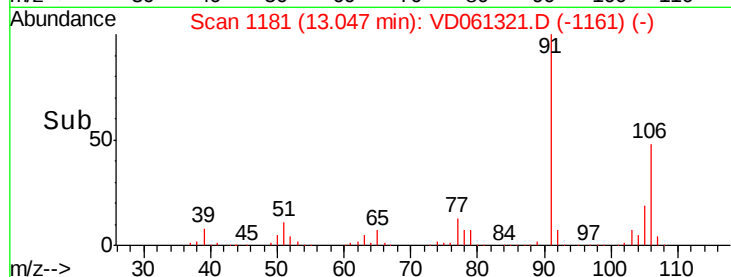
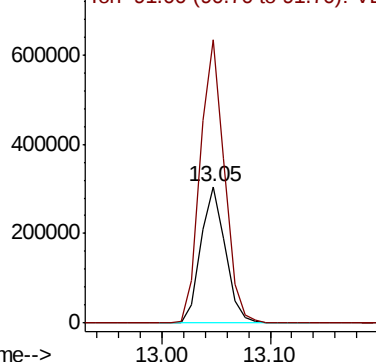
#69
o-Xylene
Concen: 65.989 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion:106 Resp: 484106
Ion Ratio Lower Upper
106 100
91 207.5 102.5 307.5

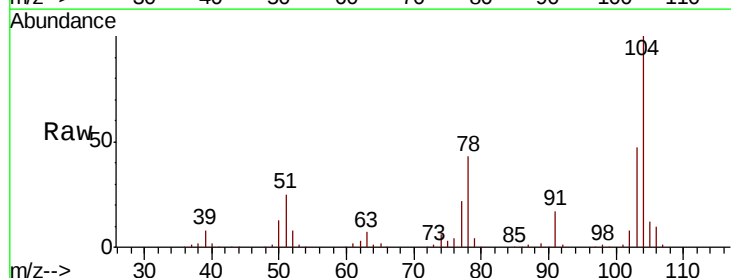


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

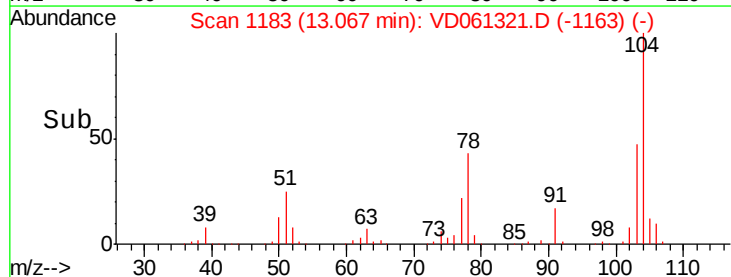
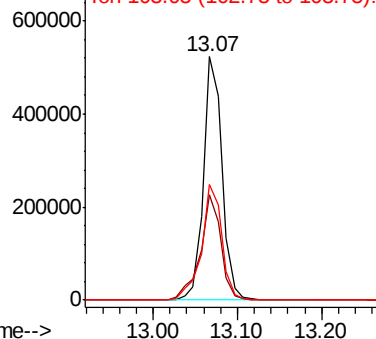


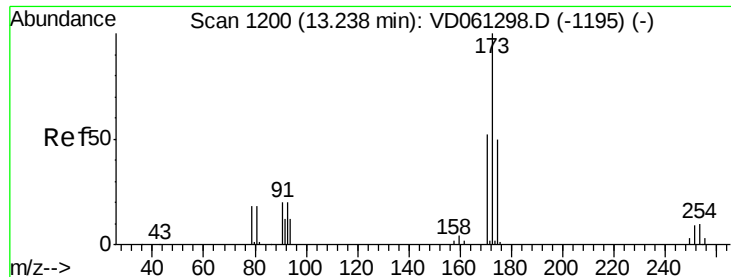
#70
Styrene
Concen: 64.428 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion:104 Resp: 802157
Ion Ratio Lower Upper
104 100
78 43.3 35.1 52.7
103 47.5 37.5 56.3



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V

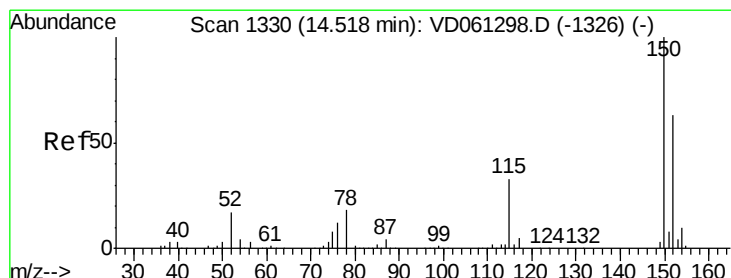
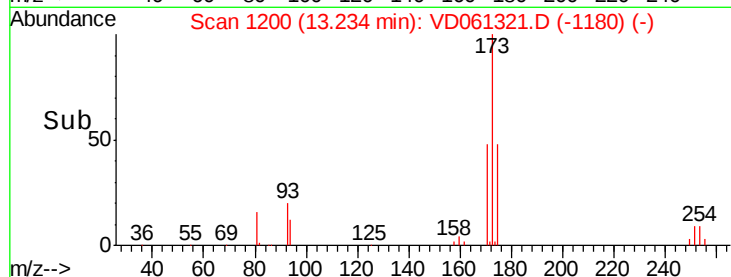
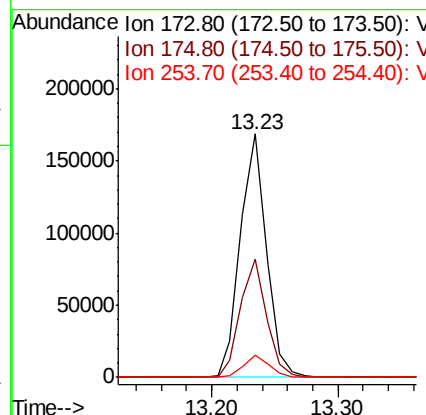
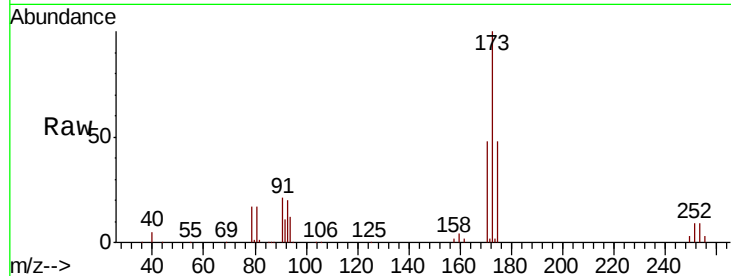




#71
Bromoform
Concen: 76.851 ug/l
RT: 13.23 min Scan# 1200
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

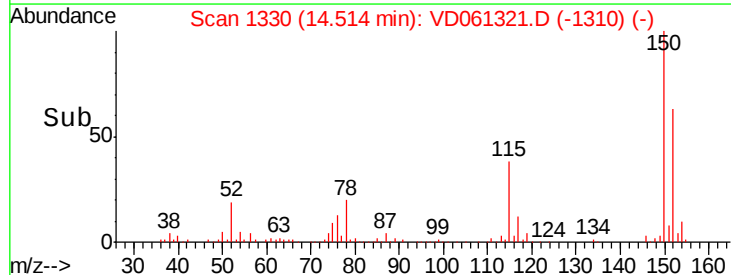
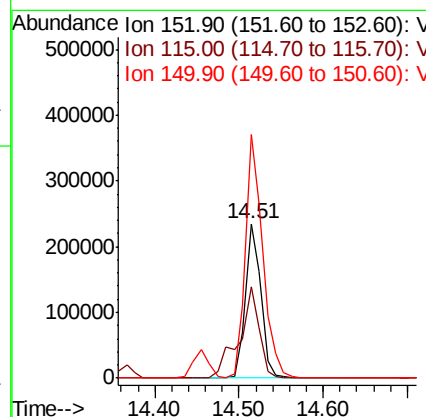
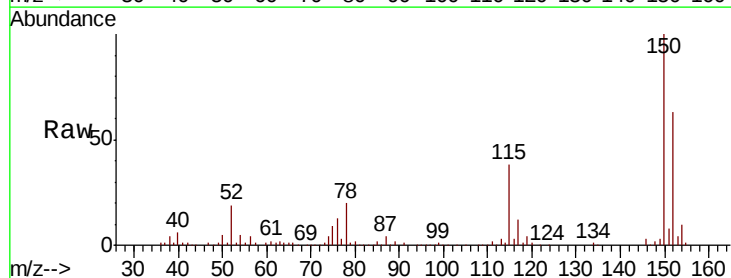
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

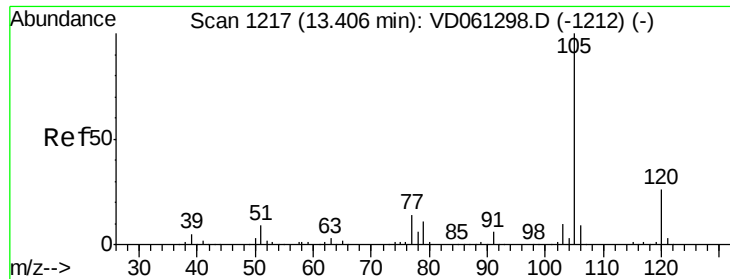
Tot Ion:173 Resp: 241420
Ion Ratio Lower Upper
173 100
175 48.3 24.9 74.7
254 9.0 7.8 11.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion:152 Resp: 299637
Ion Ratio Lower Upper
152 100
115 59.3 29.2 87.6
150 157.7 0.0 319.6





#73

Isopropylbenzene

Concen: 62.580 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

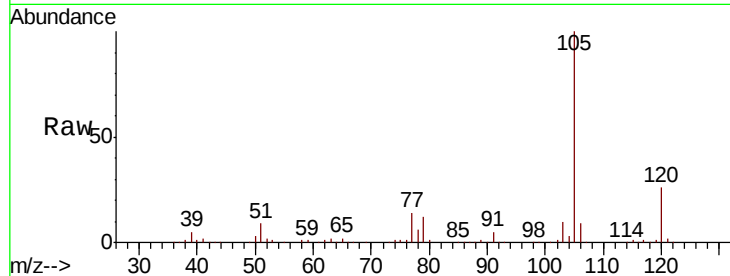
WP022SB439-190318-(13-14)MSD

Tot Ion:105 Resp: 1219634

Ion Ratio Lower Upper

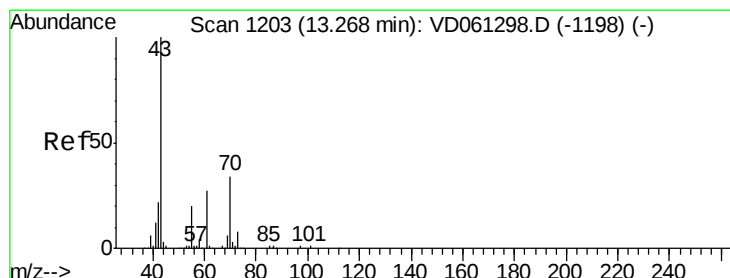
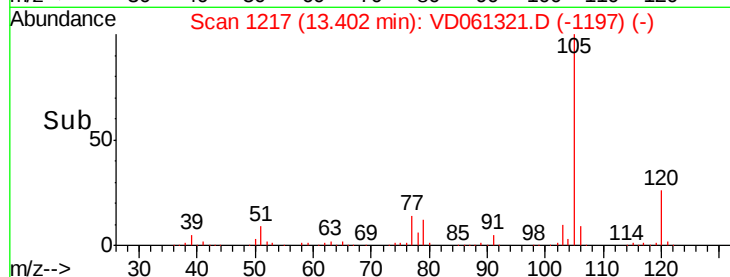
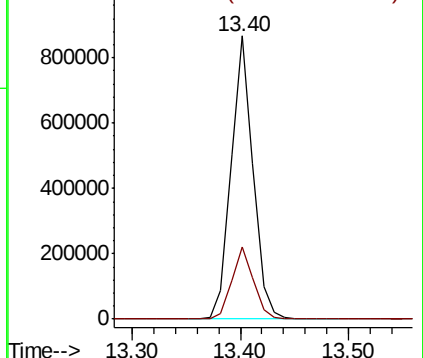
105 100

120 25.6 13.1 39.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 45.795 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Tgt Ion: 43 Resp: 233501

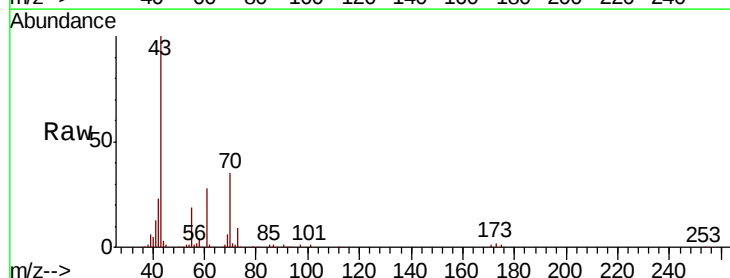
Ion Ratio Lower Upper

43 100

70 35.1 27.5 41.3

55 19.5 15.7 23.5

61 28.4 21.8 32.6

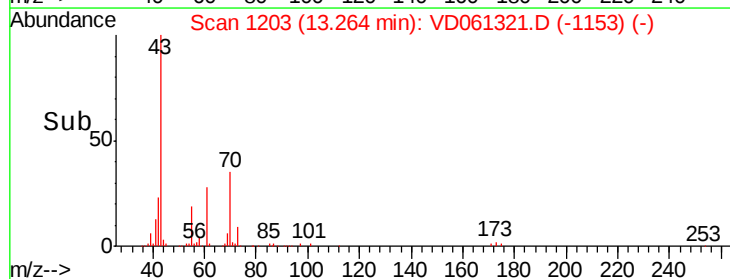
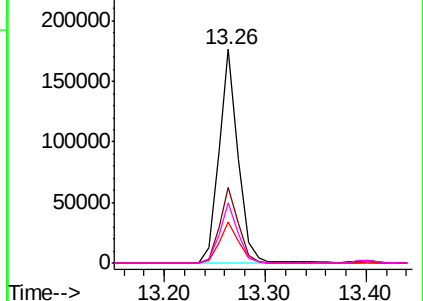


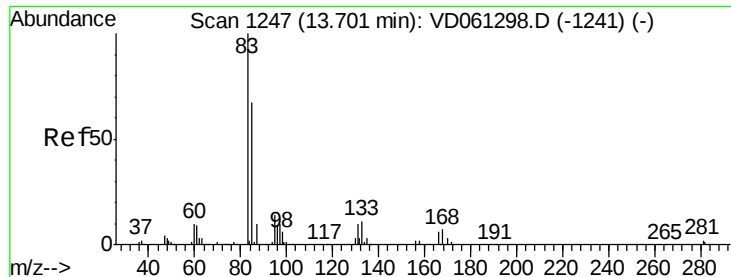
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 74.733 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

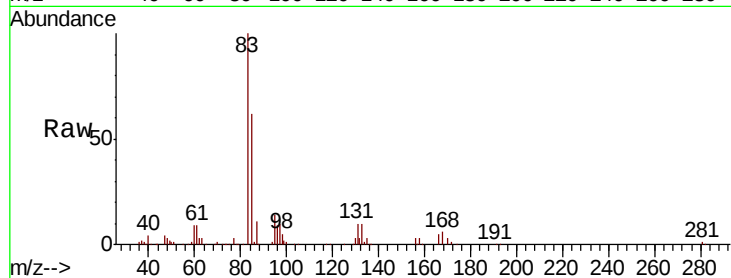
Tot Ion: 83 Resp: 282442

Ion Ratio Lower Upper

83 100

131 9.9 5.0 15.0

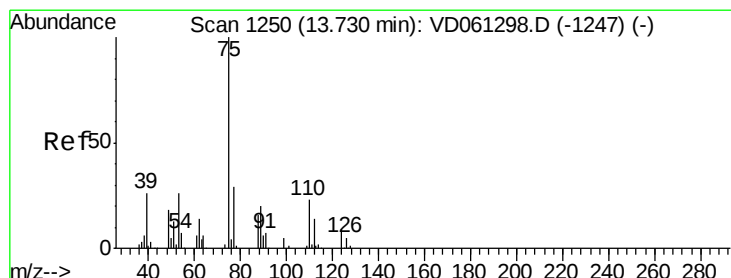
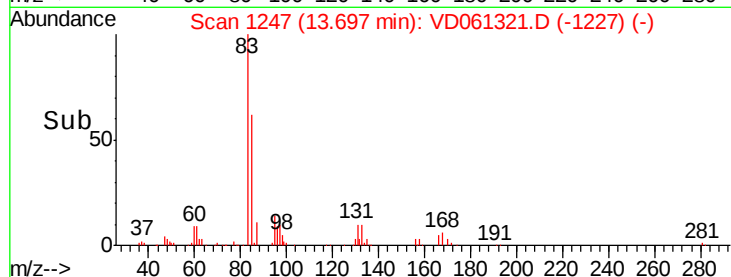
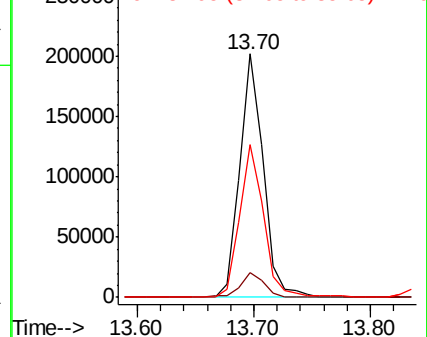
85 62.5 33.4 100.2



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: 77.815 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VD061321.D

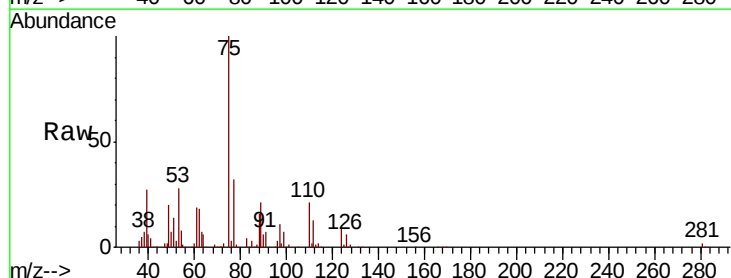
Acq: 26 Mar 2019 2:26

Tgt Ion: 75 Resp: 289965

Ion Ratio Lower Upper

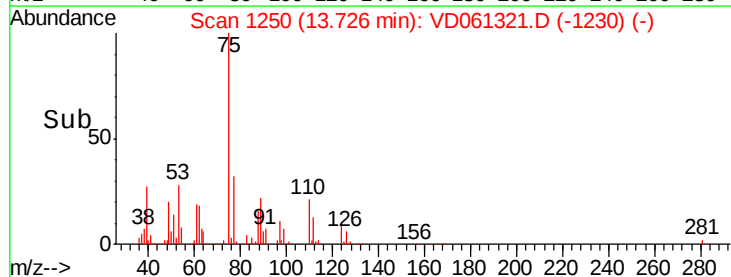
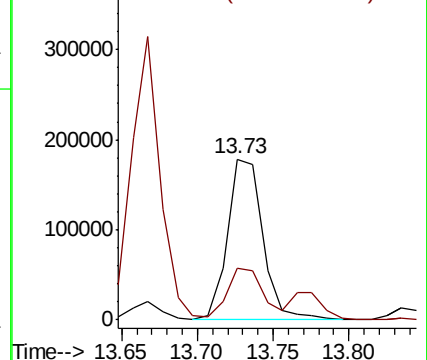
75 100

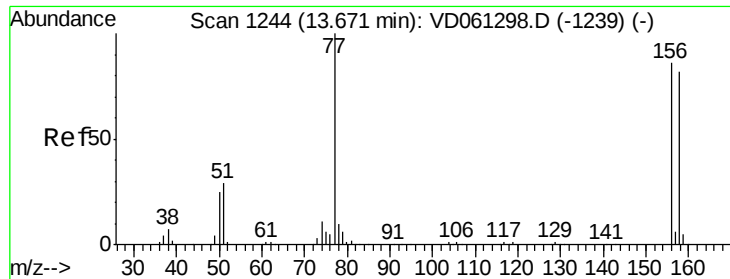
77 32.0 15.8 47.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 63.709 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

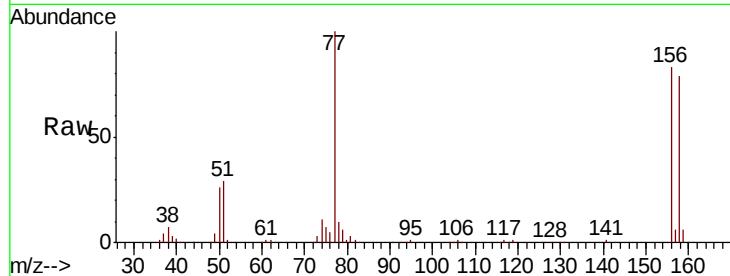
Tot Ion:156 Resp: 346824

Ion Ratio Lower Upper

156 100

77 120.7 58.4 175.1

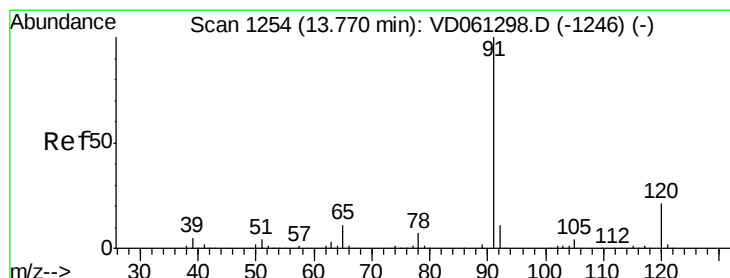
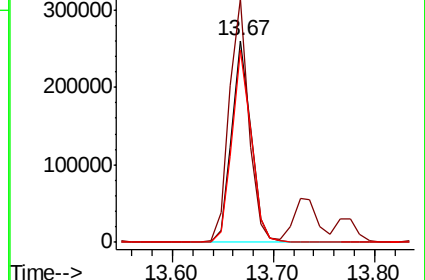
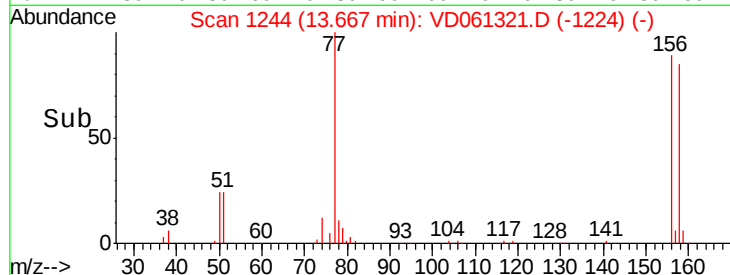
158 95.4 48.1 144.3



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 59.356 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD061321.D

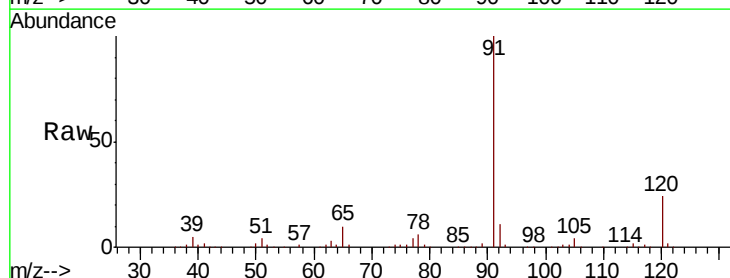
Acq: 26 Mar 2019 2:26

Tgt Ion: 91 Resp: 1305100

Ion Ratio Lower Upper

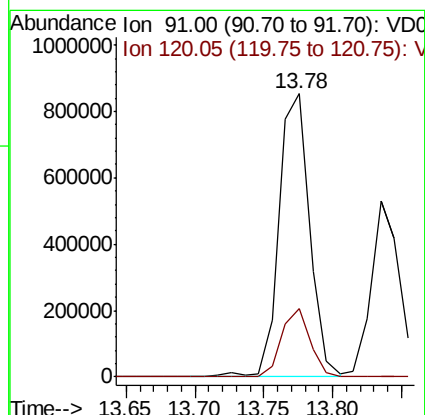
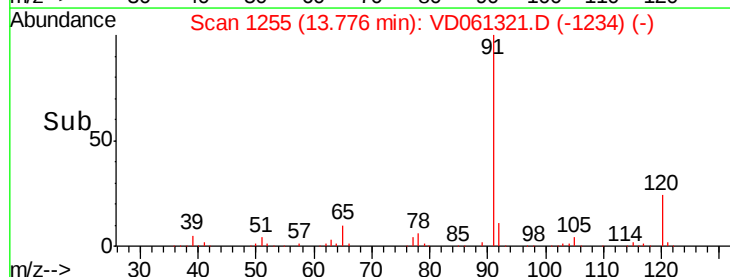
91 100

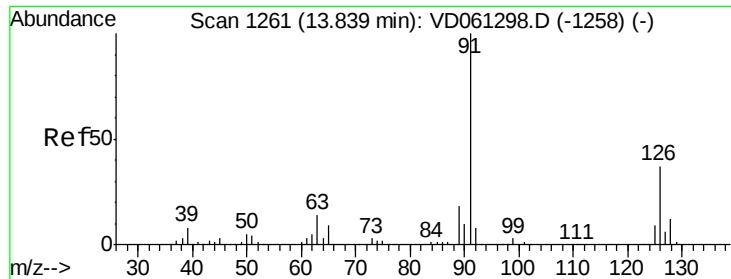
120 24.1 10.7 32.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 59.184 ug/l

RT: 13.83 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

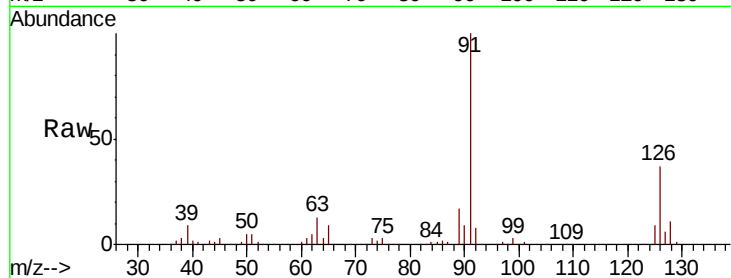
WP022SB439-190318-(13-14)MSD

Tot Ion: 91 Resp: 757678

Ion Ratio Lower Upper

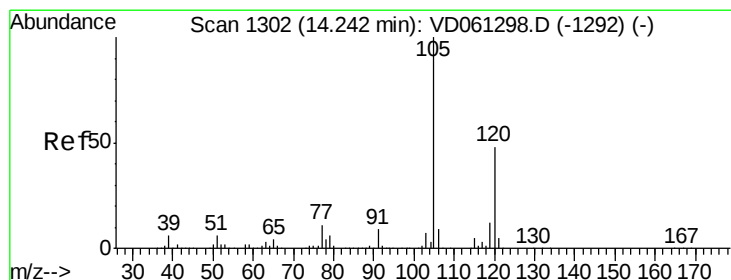
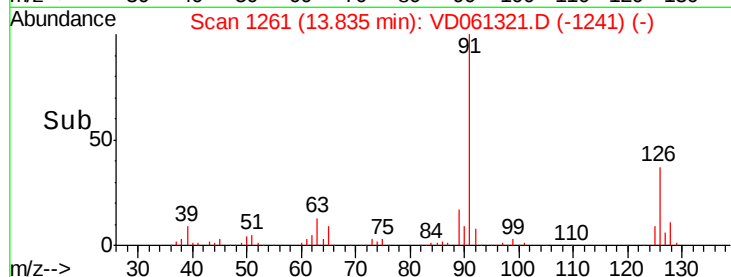
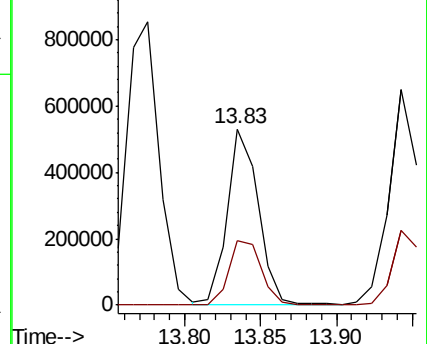
91 100

126 36.6 18.4 55.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 63.433 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.00 min

Lab File: VD061321.D

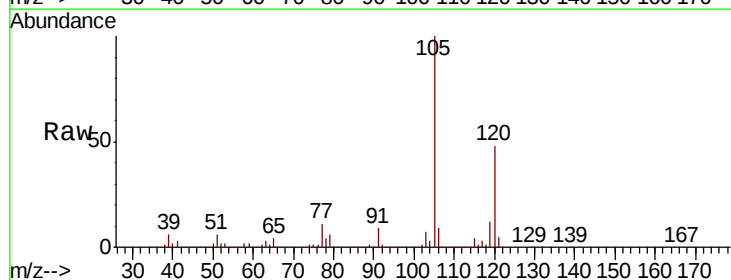
Acq: 26 Mar 2019 2:26

Tgt Ion:105 Resp: 975249

Ion Ratio Lower Upper

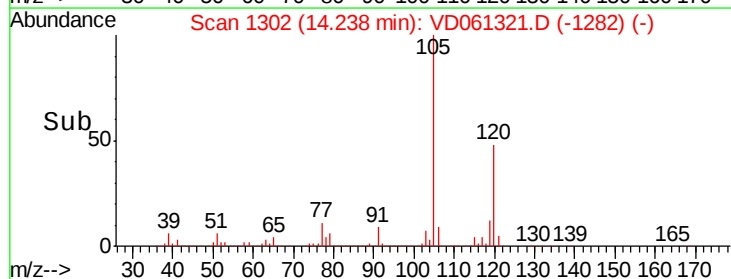
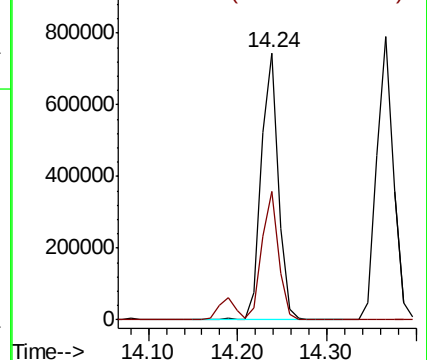
105 100

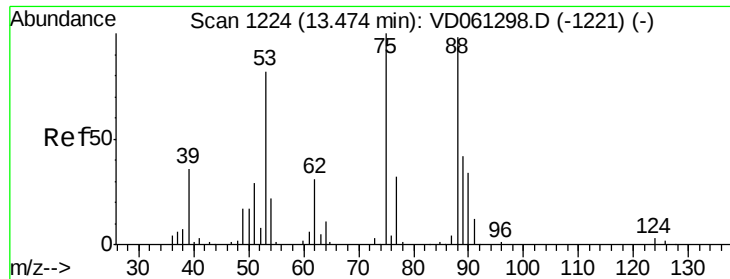
120 48.1 23.8 71.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

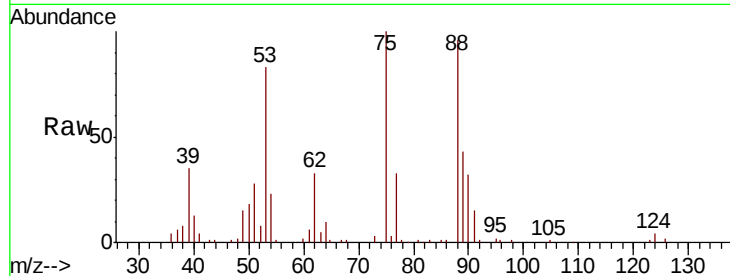




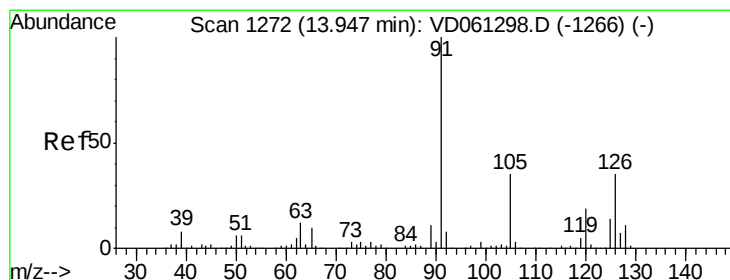
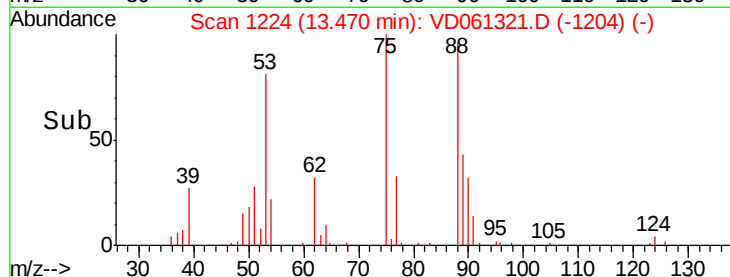
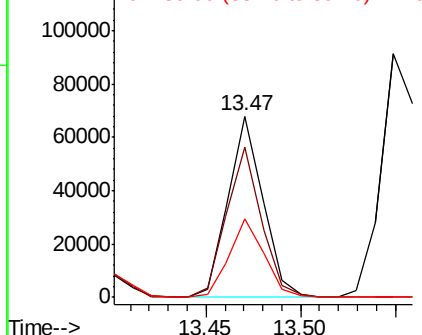
#81
trans-1,4-Dichloro-2-butene
Concen: 73.702 ug/l
RT: 13.47 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion: 75 Resp: 86673
Ion Ratio Lower Upper
75 100
53 82.9 65.3 97.9
89 43.2 33.8 50.6

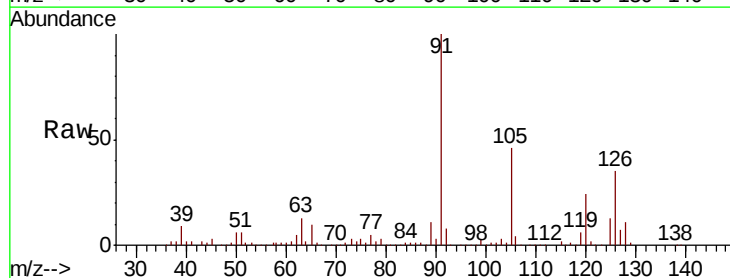


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

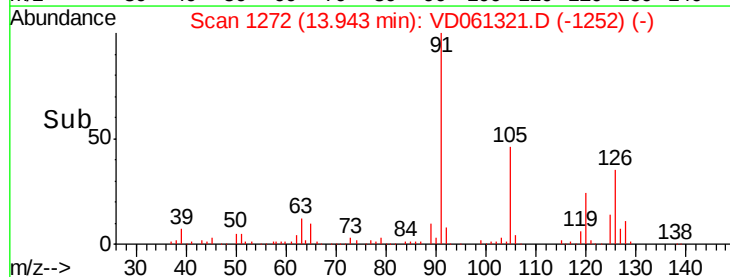
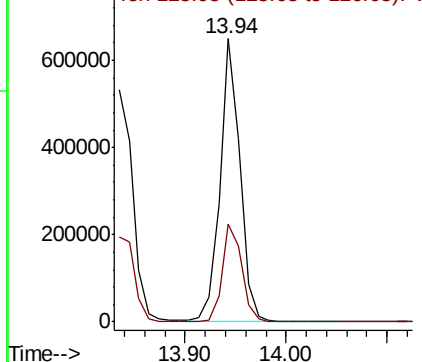


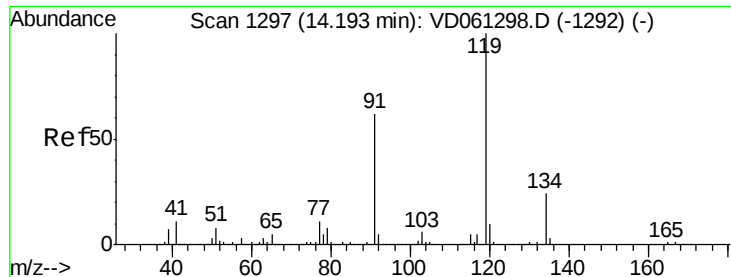
#82
4-Chlorotoluene
Concen: 63.623 ug/l
RT: 13.94 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 91 Resp: 890447
Ion Ratio Lower Upper
91 100
126 34.6 17.7 53.1



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V





#83

tert-Butylbenzene

Concen: 63.485 ug/l

RT: 14.19 min Scan# 1297

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

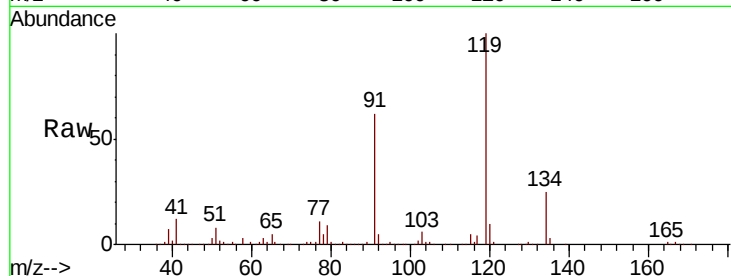
Tot Ion:119 Resp: 1114427

Ion Ratio Lower Upper

119 100

91 61.8 31.1 93.5

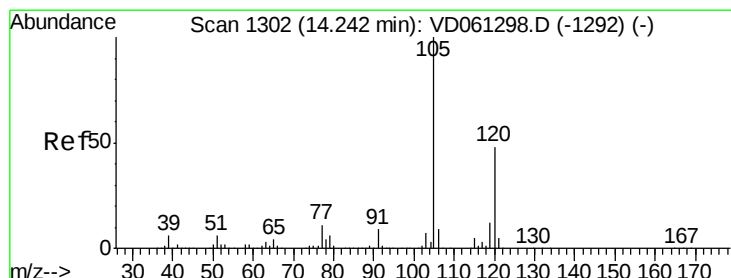
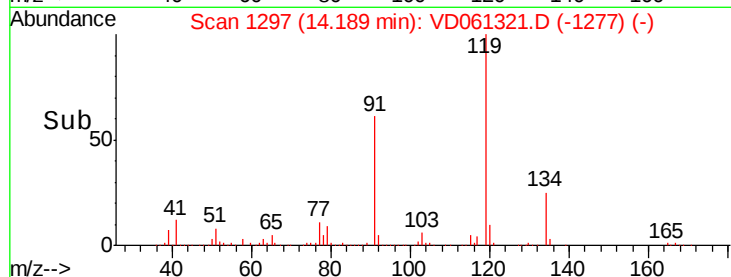
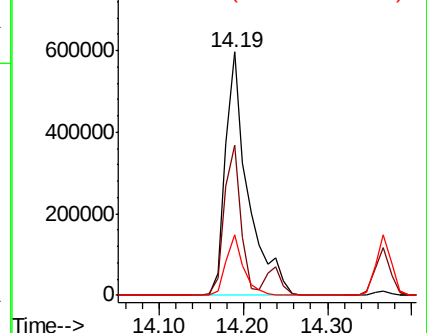
134 24.7 11.9 35.7



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: 63.433 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.00 min

Lab File: VD061321.D

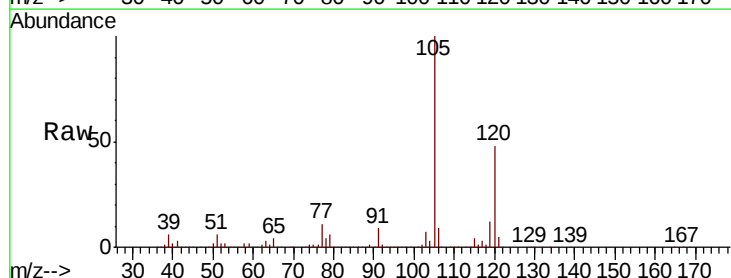
Acq: 26 Mar 2019 2:26

Tgt Ion:105 Resp: 975249

Ion Ratio Lower Upper

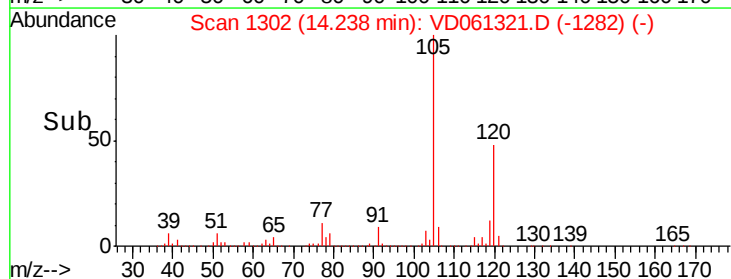
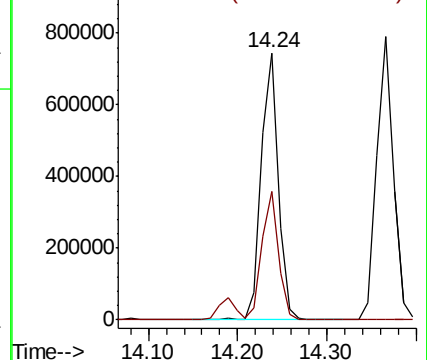
105 100

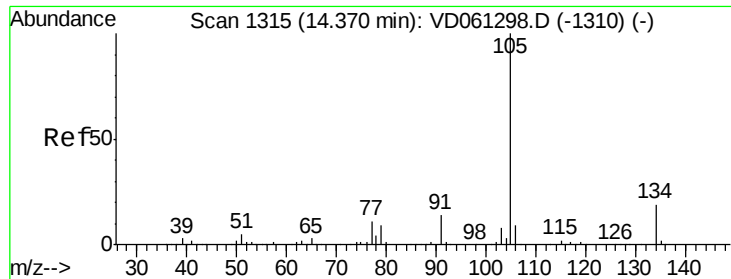
120 48.1 23.8 71.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

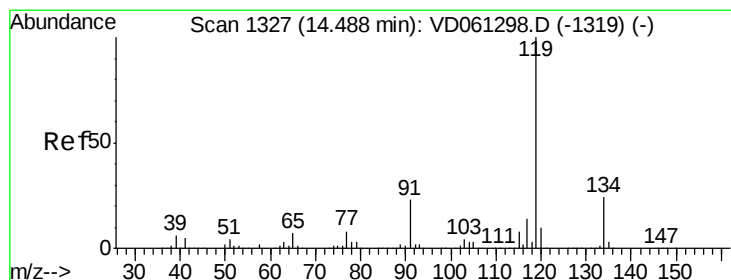
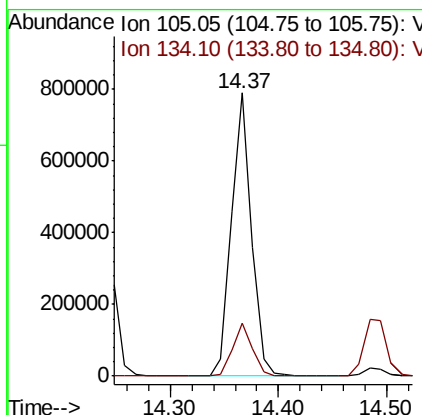
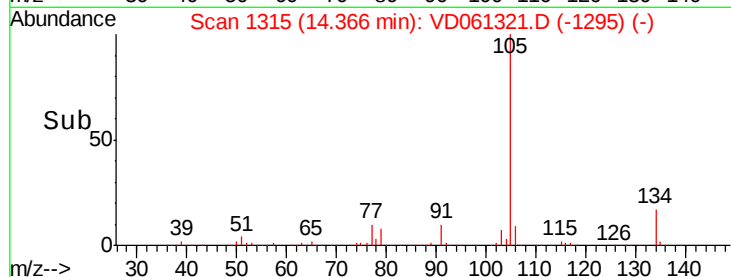
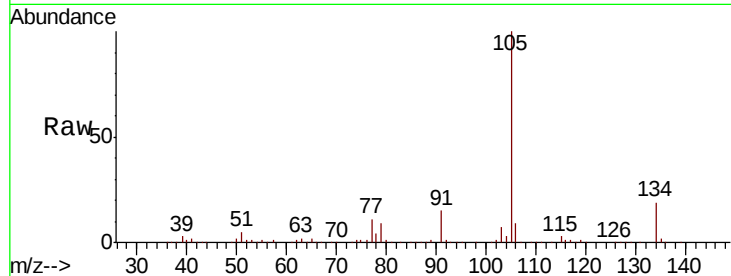




#85
 sec-Butylbenzene
 Concen: 51.784 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

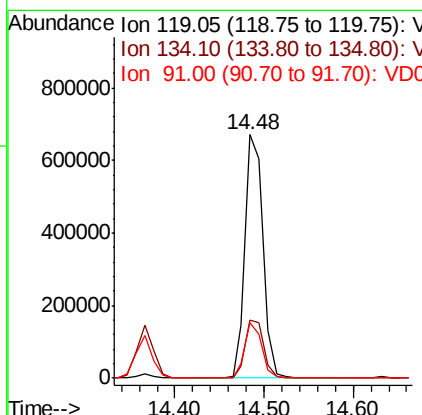
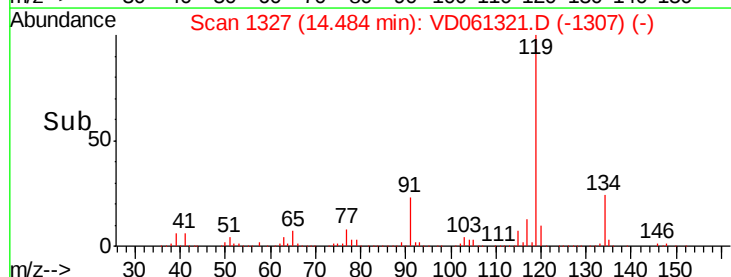
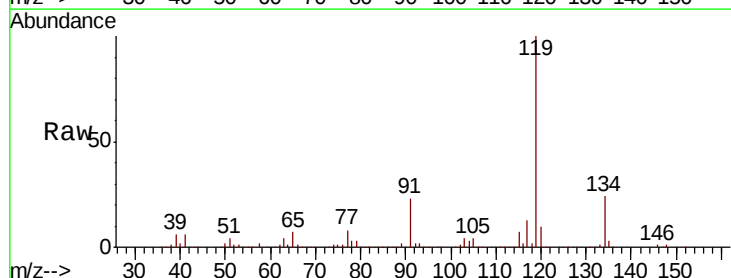
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

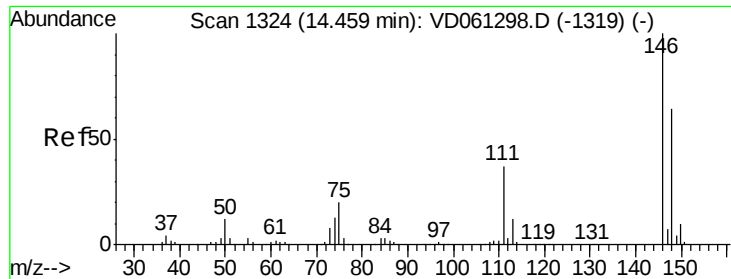
Tot Ion:105 Resp: 1012365
 Ion Ratio Lower Upper
 105 100
 134 18.7 9.5 28.5



#86
 p-Isopropyltoluene
 Concen: 53.467 ug/l
 RT: 14.48 min Scan# 1327
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion:119 Resp: 932550
 Ion Ratio Lower Upper
 119 100
 134 23.6 12.1 36.3
 91 22.9 11.4 34.2

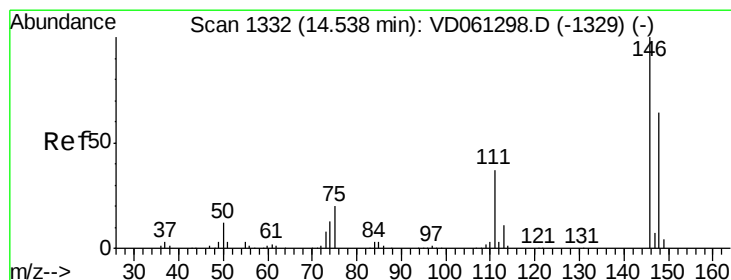
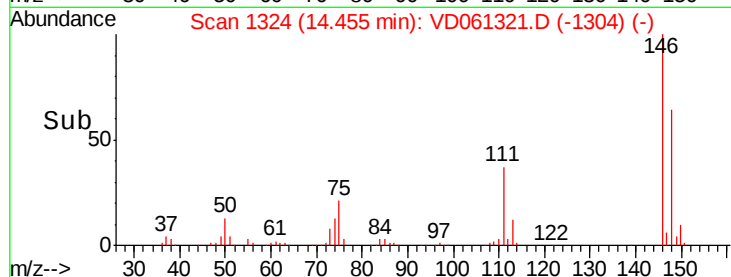
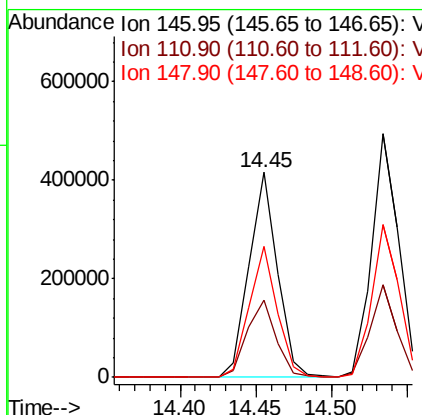
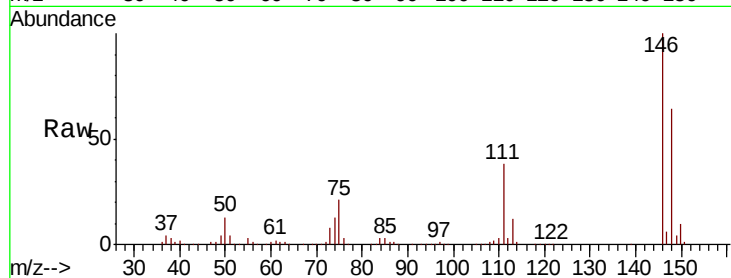




#87
 1,3-Dichlorobenzene
 Concen: 56.271 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

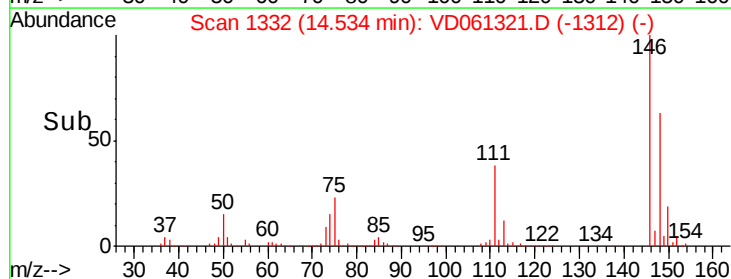
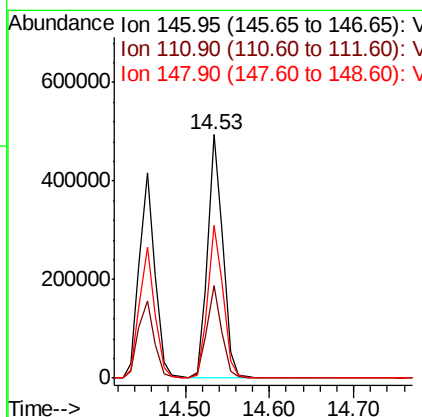
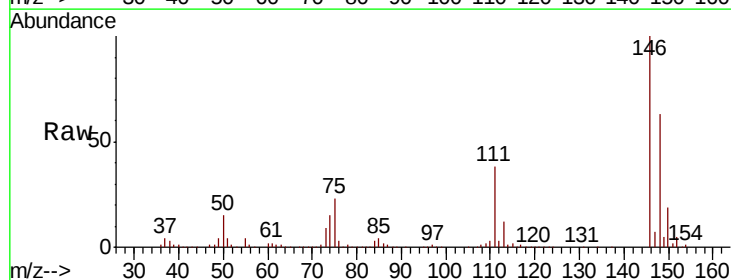
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

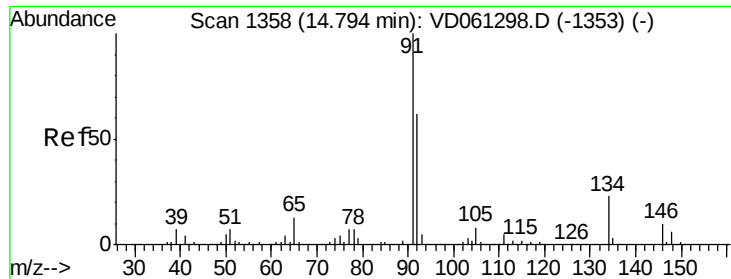
Tot Ion:146 Resp: 542979
 Ion Ratio Lower Upper
 146 100
 111 37.6 18.4 55.0
 148 64.0 32.0 96.2



#88
 1,4-Dichlorobenzene
 Concen: 66.368 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion:146 Resp: 620349
 Ion Ratio Lower Upper
 146 100
 111 38.0 18.6 55.6
 148 62.6 31.9 95.5

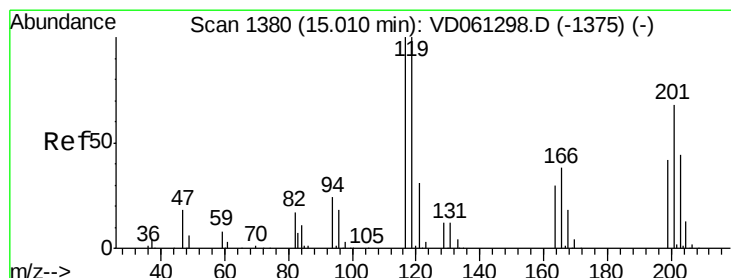
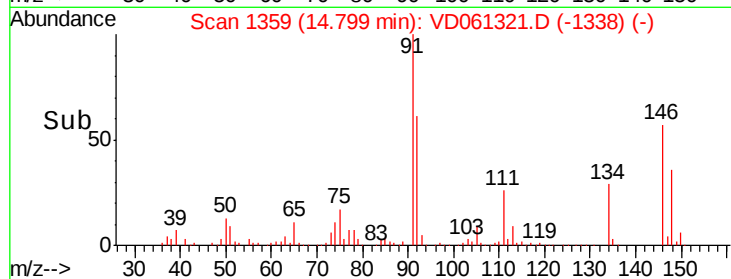
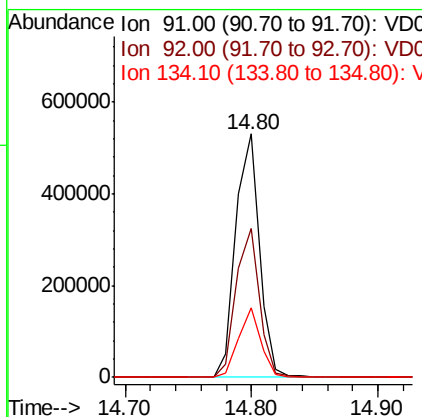
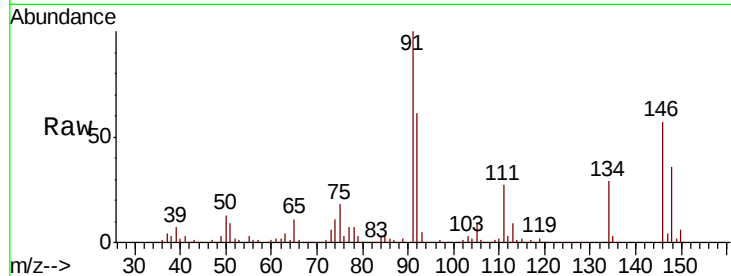




#89
n-Butylbenzene
Concen: 44.352 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

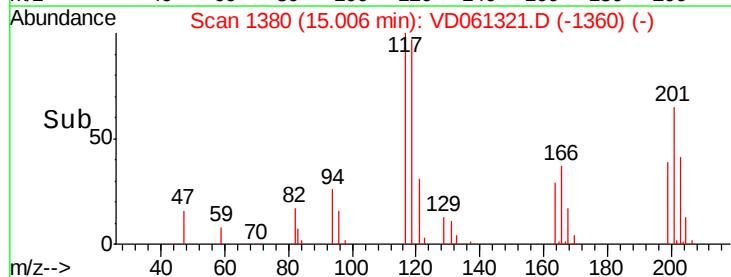
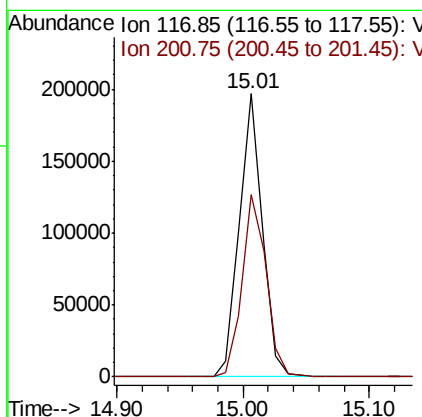
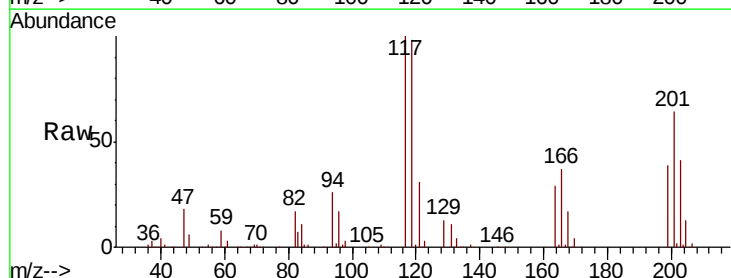
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

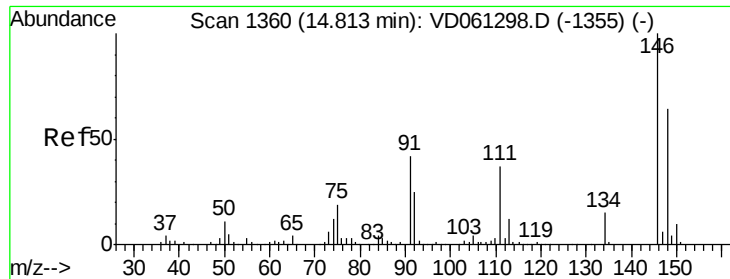
Tot Ion: 91 Resp: 686796
Ion Ratio Lower Upper
91 100
92 61.0 30.9 92.7
134 28.7 11.7 35.0



#90
Hexachloroethane
Concen: 52.975 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 117 Resp: 247729
Ion Ratio Lower Upper
117 100
201 64.4 34.0 101.8

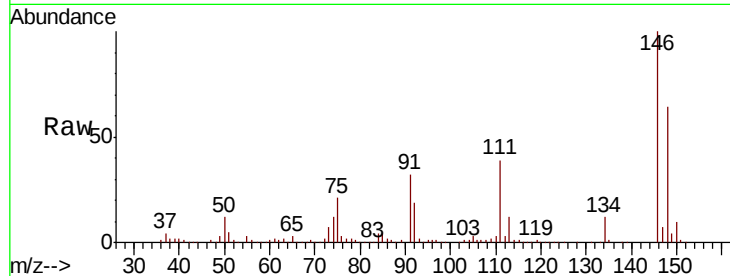




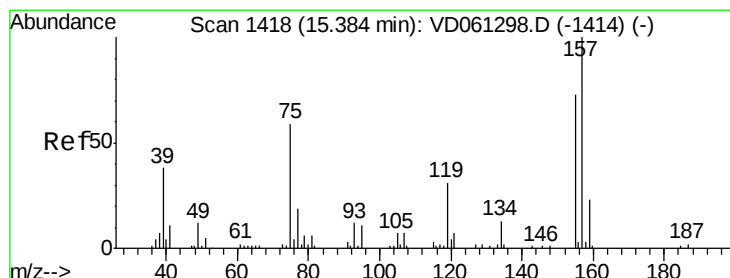
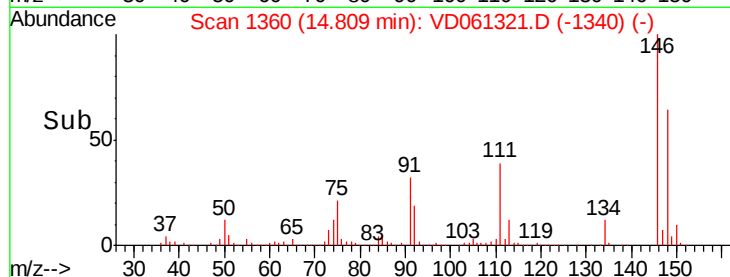
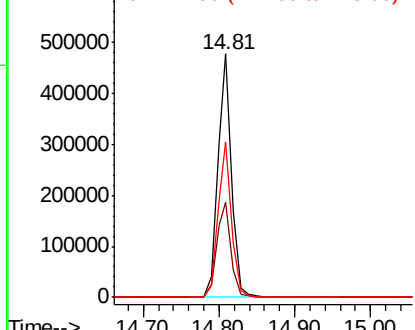
#91
 1,2-Dichlorobenzene
 Concen: 79.126 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Tot Ion:146 Resp: 609240
 Ion Ratio Lower Upper
 146 100
 111 38.9 18.3 54.8
 148 63.8 31.9 95.7

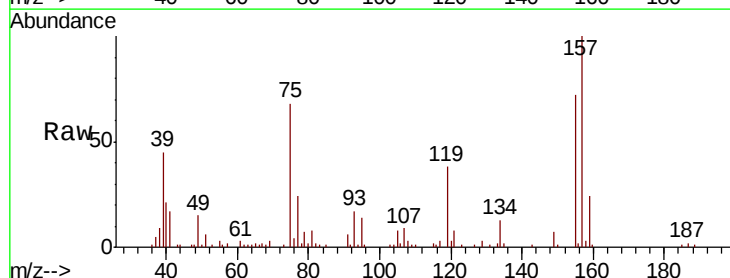


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

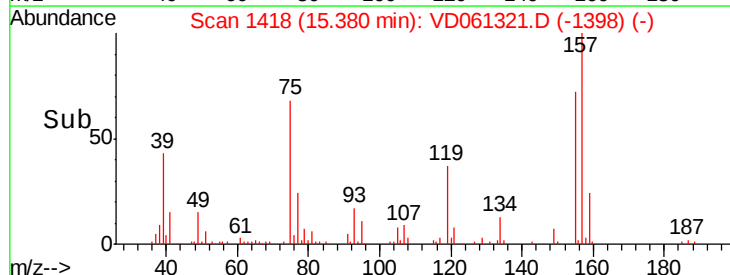
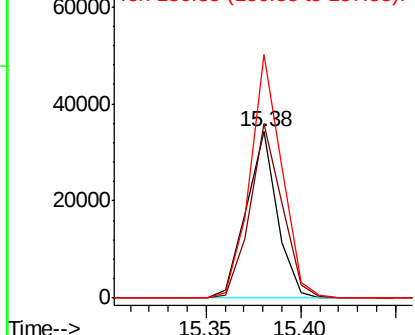


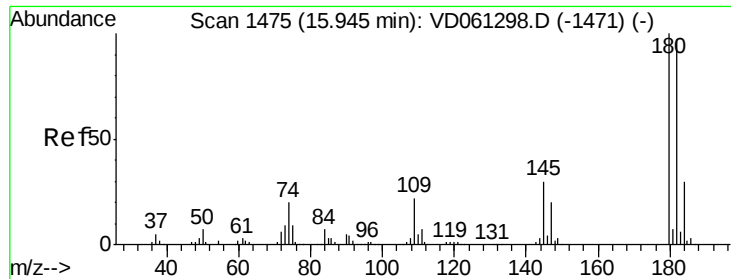
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 82.365 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion: 75 Resp: 38898
 Ion Ratio Lower Upper
 75 100
 155 105.0 61.9 185.7
 157 146.1 84.4 253.2



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

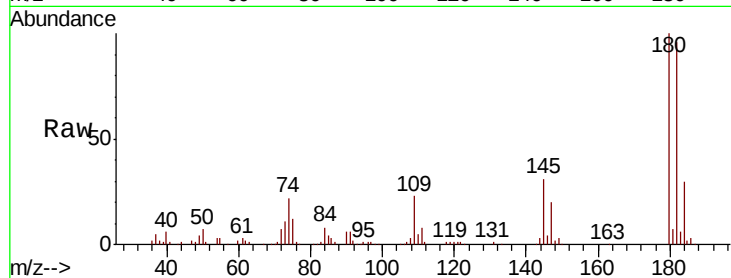




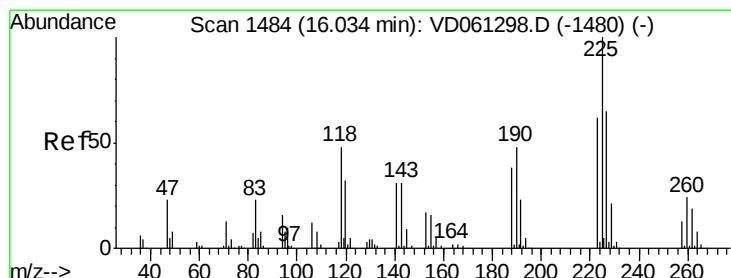
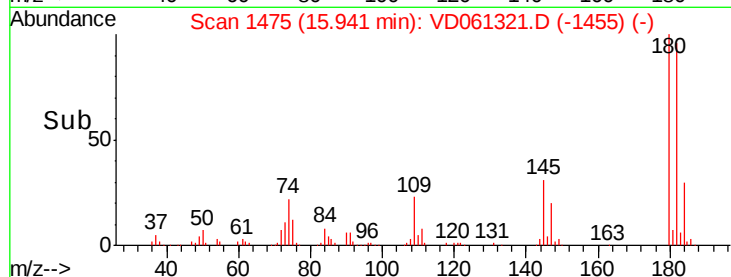
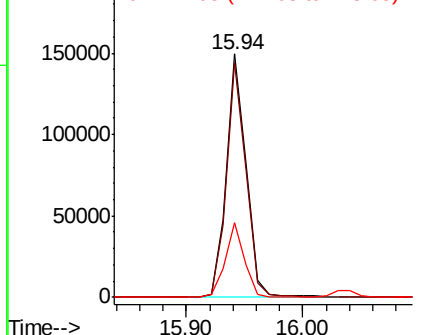
#93
 1,2,4-Trichlorobenzene
 Concen: 49.430 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Tot Ion:180 Resp: 175769
 Ion Ratio Lower Upper
 180 100
 182 96.4 48.3 144.9
 145 30.7 14.8 44.4

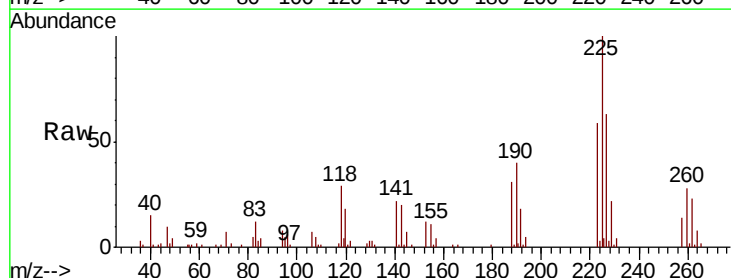


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

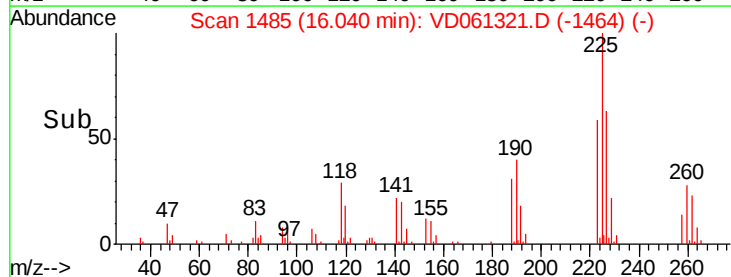
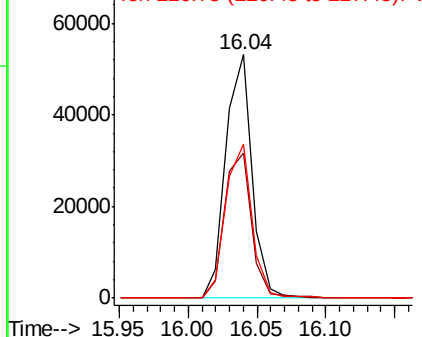


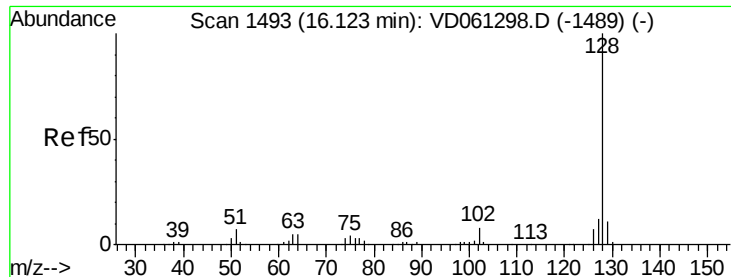
#94
 Hexachlorobutadiene
 Concen: 24.468 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion:225 Resp: 70108
 Ion Ratio Lower Upper
 225 100
 223 59.5 30.9 92.8
 227 63.4 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

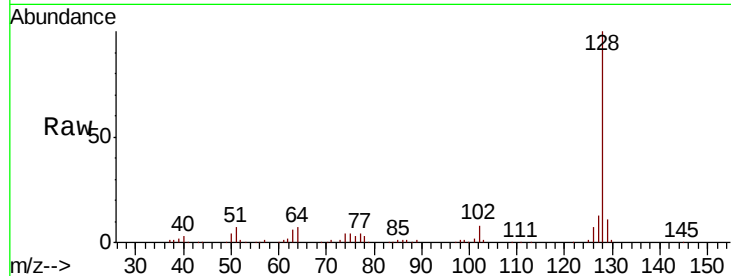




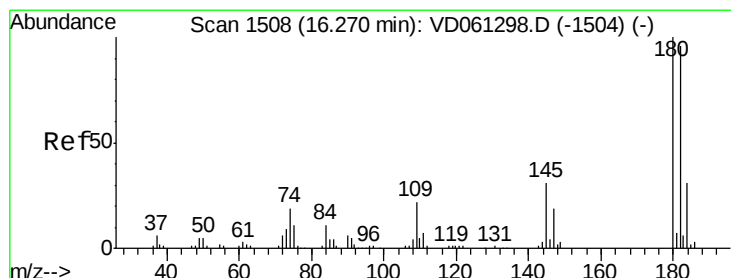
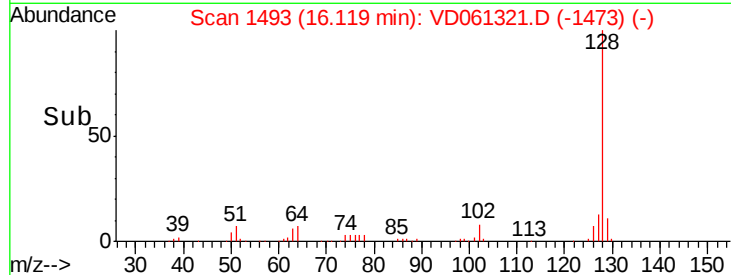
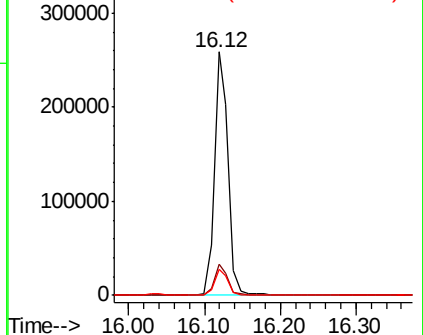
#95
Naphthalene
Concen: 63.879 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion:128 Resp: 331441
Ion Ratio Lower Upper
128 100
127 12.5 9.8 14.6
129 10.8 8.6 12.8

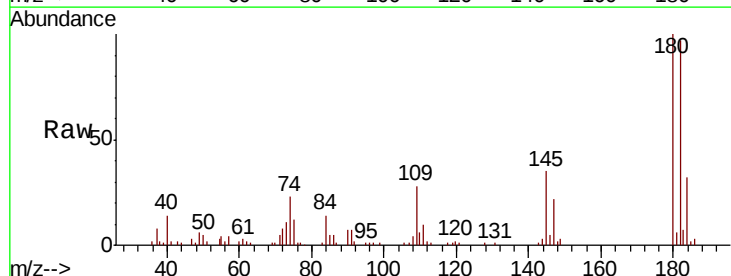


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 47.864 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion:180 Resp: 79495
Ion Ratio Lower Upper
180 100
182 97.0 48.0 144.2
145 34.5 15.4 46.4



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

