

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122018\
 Data File : VD060659.D
 Acq On : 20 Dec 2018 15:18
 Operator : VA/AP
 Sample : VSTDICV050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD122018

Quant Time: Dec 21 03:38:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 03:34:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1764539	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	2350097	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1879087	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	961496	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.79	65	522171	42.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.64%	
35) Dibromofluoromethane	6.33	113	783621	45.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.12%	
50) Toluene-d8	9.46	98	2333531	45.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.94%	
62) 4-Bromofluorobenzene	12.42	95	813113	45.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.48%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.61	85	1137175	50.437	ug/l	100
3) Chloromethane	1.77	50	1014469	48.890	ug/l	99
4) Vinyl Chloride	1.87	62	800395	48.585	ug/l	99
5) Bromomethane	2.17	94	207085	56.117	ug/l	98
6) Chloroethane	2.28	64	262131	53.317	ug/l	96
7) Trichlorofluoromethane	2.52	101	905222	49.401	ug/l	97
8) Diethyl Ether	2.84	74	148100	48.309	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.11	101	562250	47.304	ug/l	98
10) Methyl Iodide	3.26	142	613486	49.112	ug/l	98
11) Tert butyl alcohol	3.98	59	122760	240.884	ug/l	95
12) 1,1-Dichloroethene	3.09	96	455734	46.664	ug/l	99
13) Acrolein	3.00	56	108998	209.882	ug/l	97
14) Allyl chloride	3.56	41	841308	46.947	ug/l	98
15) Acrylonitrile	4.10	53	673726	227.711	ug/l	97
16) Acetone	3.17	43	499784	234.690	ug/l	98
17) Carbon Disulfide	3.33	76	1529719	49.045	ug/l	100
18) Methyl Acetate	3.57	43	242308	45.912	ug/l	98
19) Methyl tert-butyl Ether	4.14	73	1165891	47.054	ug/l	100
20) Methylene Chloride	3.73	84	901707	40.772	ug/l	98
21) trans-1,2-Dichloroethene	4.12	96	939808	46.989	ug/l	98
22) Diisopropyl ether	4.86	45	2829494	46.503	ug/l	98
23) Vinyl Acetate	4.82	43	6772745	230.076	ug/l	99
24) 1,1-Dichloroethane	4.77	63	1504834	47.020	ug/l	100
25) 2-Butanone	5.63	43	943636	231.564	ug/l	98
26) 2,2-Dichloropropane	5.59	77	1195462	47.321	ug/l	100
27) cis-1,2-Dichloroethene	5.60	96	950896	46.834	ug/l	99
28) Bromochloromethane	5.93	49	598278	44.250	ug/l	99
29) Tetrahydrofuran	5.96	42	518189	224.310	ug/l	100
30) Chloroform	6.10	83	1473369	45.752	ug/l	100
31) Cyclohexane	6.37	56	1424508	46.252	ug/l	98
32) 1,1,1-Trichloroethane	6.30	97	1281725	48.107	ug/l	99
36) 1,1-Dichloropropene	6.53	75	1167344	48.238	ug/l	98
37) Ethyl Acetate	5.70	43	480891	47.515	ug/l	96
38) Carbon Tetrachloride	6.51	117	1059218	49.614	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.04	83	1356626	49.154	ug/l	100
40) Benzene	6.80	78	2991260	47.853	ug/l	99
41) Methacrylonitrile	5.95	41	554148	98.986	ug/l #	81
42) 1,2-Dichloroethane	6.90	62	737195	47.524	ug/l	100
43) Isopropyl Acetate	8.35	43	623346	47.994	ug/l #	98
44) Trichloroethene	7.75	130	927230	50.117	ug/l	99
45) 1,2-Dichloropropane	8.10	63	721513	47.066	ug/l	100
46) Dibromomethane	8.22	93	422594	48.301	ug/l	97
47) Bromodichloromethane	8.50	83	1017897	49.121	ug/l	97
48) Methyl methacrylate	8.25	41	394400	49.997	ug/l	98
49) 1,4-Dioxane	8.23	88	73014	995.478	ug/l	96
51) 4-Methyl-2-Pentanone	9.34	43	1891338	237.685	ug/l	99
52) Toluene	9.55	92	1885539	48.117	ug/l	98
53) t-1,3-Dichloropropene	9.92	75	838290	48.489	ug/l	98
54) cis-1,3-Dichloropropene	9.11	75	1067927	47.194	ug/l	98
55) 1,1,2-Trichloroethane	10.18	97	496869	47.126	ug/l	97
56) Ethyl methacrylate	10.03	69	484988	49.524	ug/l	98
57) 1,3-Dichloropropane	10.39	76	804714	48.152	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.93	63	1319035	228.590	ug/l	99
59) 2-Hexanone	10.48	43	1401064	251.544	ug/l	98
60) Dibromochloromethane	10.64	129	671917	50.032	ug/l	100
61) 1,2-Dibromoethane	10.76	107	541828	49.545	ug/l	95
64) Tetrachloroethene	10.26	164	829391	48.698	ug/l	100
65) Chlorobenzene	11.31	112	1967088	47.382	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.42	131	644786	48.304	ug/l	98
67) Ethyl Benzene	11.43	91	3384583	47.603	ug/l	100
68) m/p-Xylenes	11.57	106	2473203	95.183	ug/l	99
69) o-Xylene	11.93	106	1203926	48.838	ug/l	90
70) Styrene	11.96	104	1946561	49.028	ug/l	99
71) Bromoform	12.12	173	439068	49.830	ug/l	96
73) Isopropylbenzene	12.28	105	3326607	48.594	ug/l	100
74) N-amyl acetate	12.14	43	793895	49.137	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.56	83	540895	48.746	ug/l	99
76) 1,2,3-Trichloropropane	12.60	75	527836	48.220	ug/l	98
77) Bromobenzene	12.54	156	874729	48.398	ug/l	98
78) n-propylbenzene	12.64	91	4086673	46.695	ug/l	99
79) 2-Chlorotoluene	12.71	91	2206066	47.062	ug/l	100
80) 1,3,5-Trimethylbenzene	12.80	105	2574679	48.706	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.34	75	154059	50.932	ug/l	98
82) 4-Chlorotoluene	12.81	91	2437503	45.877	ug/l	99
83) tert-Butylbenzene	13.05	119	2898642	48.182	ug/l	100
84) 1,2,4-Trimethylbenzene	13.09	105	2606292	47.871	ug/l	99
85) sec-Butylbenzene	13.22	105	3562813	48.561	ug/l	99
86) p-Isopropyltoluene	13.35	119	2854130	48.193	ug/l	99
87) 1,3-Dichlorobenzene	13.31	146	1568717	47.282	ug/l	95
88) 1,4-Dichlorobenzene	13.40	146	1565201	47.875	ug/l	99
89) n-Butylbenzene	13.65	91	2918266	48.220	ug/l	99
90) Hexachloroethane	13.86	117	724517	49.798	ug/l	98
91) 1,2-Dichlorobenzene	13.66	146	1254598	47.140	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.22	75	63084	48.393	ug/l	98

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Quant Title : SW846 8260
QLast Update : Fri Dec 21 03:34:39 2018
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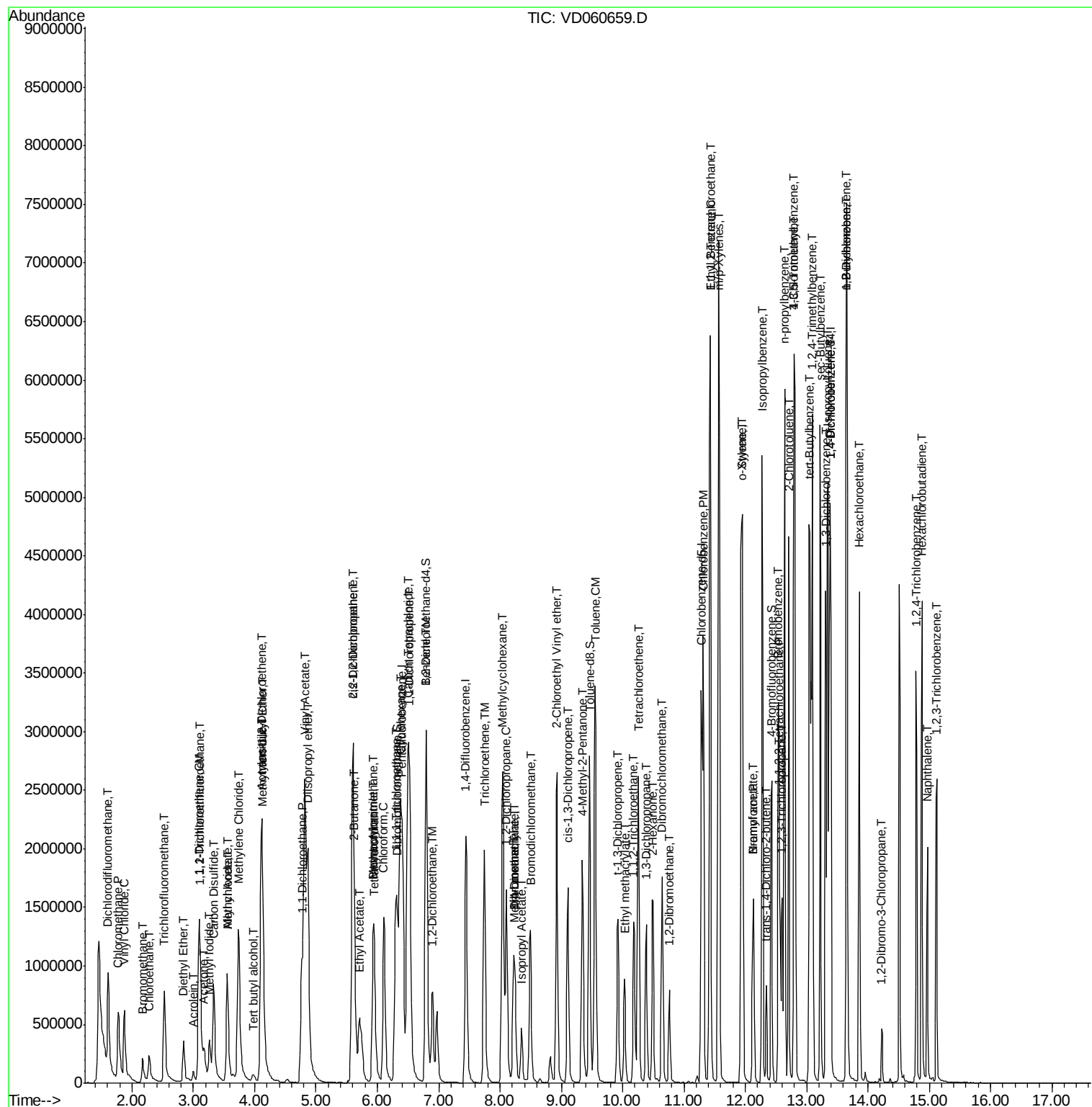
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.78	180	1032485	48.753	ug/l	95
94) Hexachlorobutadiene	14.88	225	757593	48.397	ug/l	99
95) Naphthalene	14.97	128	1231191	48.914	ug/l	99
96) 1,2,3-Trichlorobenzene	15.12	180	794106	47.967	ug/l	100

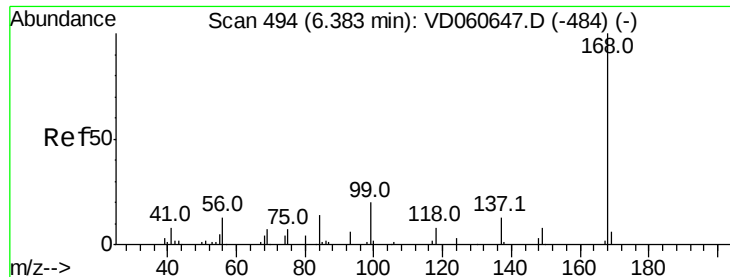
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 527

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

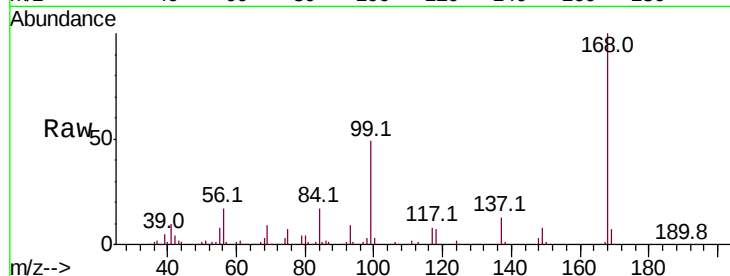
ICVVD122018

Tot Ion:168 Resp: 1764539

Ion Ratio Lower Upper

168 100

99 48.9 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

600000

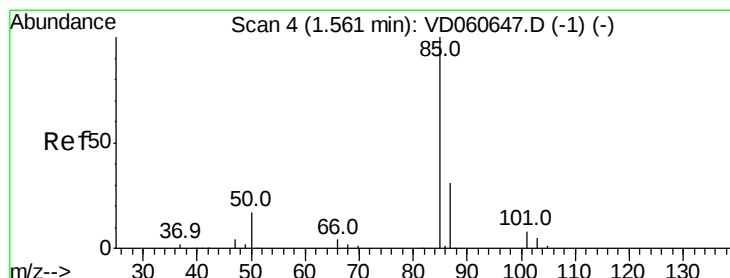
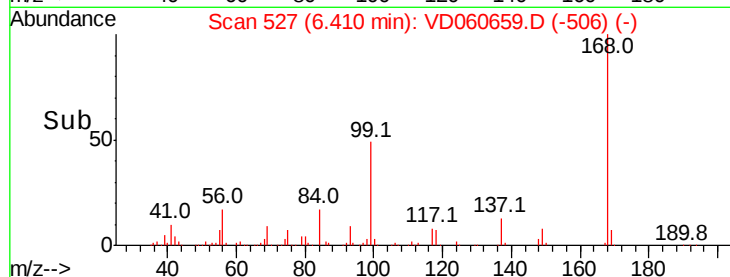
400000

200000

0

6.30 6.40 6.50 6.60

Time-->



#2

Dichlorodifluoromethane

Concen: 50.437 ug/l

RT: 1.61 min Scan# 39

Delta R.T. 0.00 min

Lab File: VD060659.D

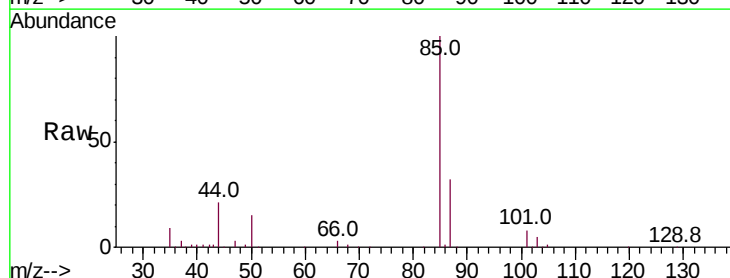
Acq: 20 Dec 2018 15:18

Tgt Ion: 85 Resp: 1137175

Ion Ratio Lower Upper

85 100

87 31.7 16.0 47.9



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.61

500000

400000

300000

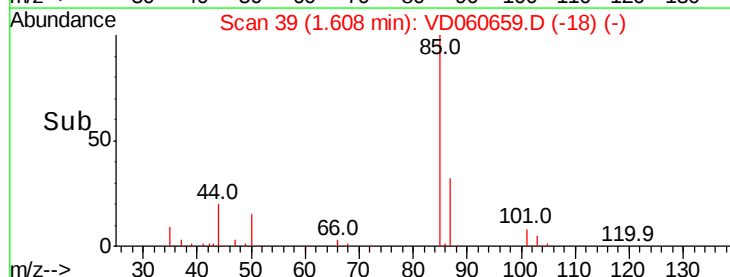
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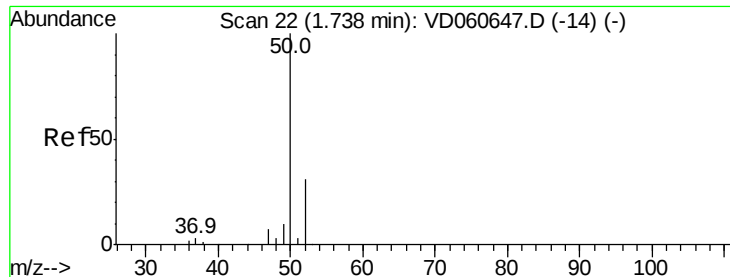
100000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 48.890 ug/l

RT: 1.77 min Scan# 56

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

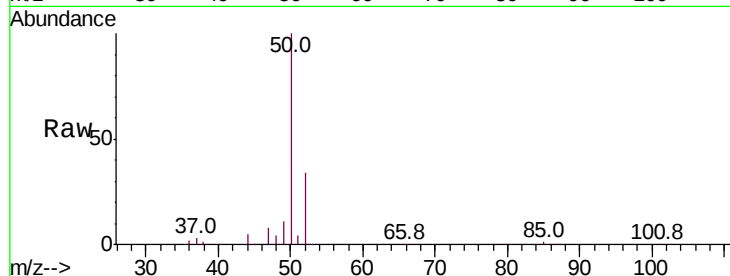
ICVVD122018

Tot Ion: 50 Resp: 1014469

Ion Ratio Lower Upper

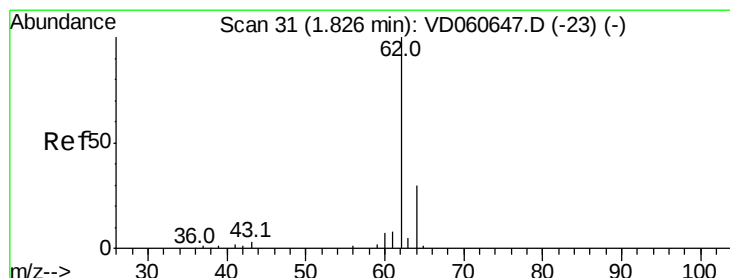
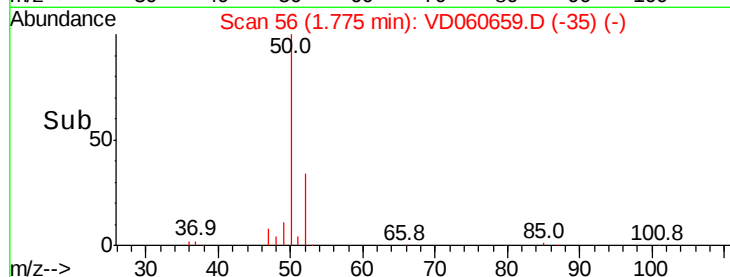
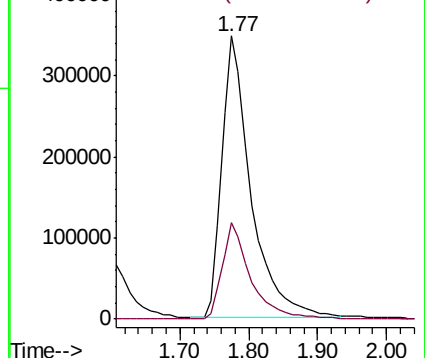
50 100

52 33.9 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 48.585 ug/l

RT: 1.87 min Scan# 66

Delta R.T. 0.00 min

Lab File: VD060659.D

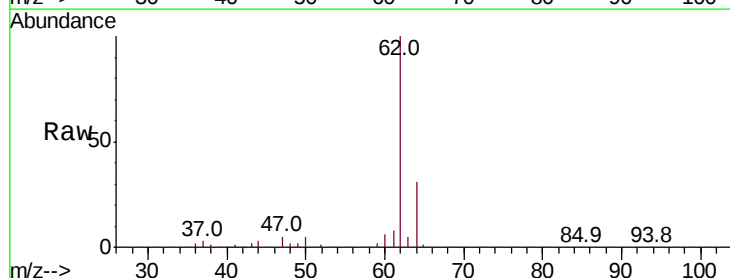
Acq: 20 Dec 2018 15:18

Tgt Ion: 62 Resp: 800395

Ion Ratio Lower Upper

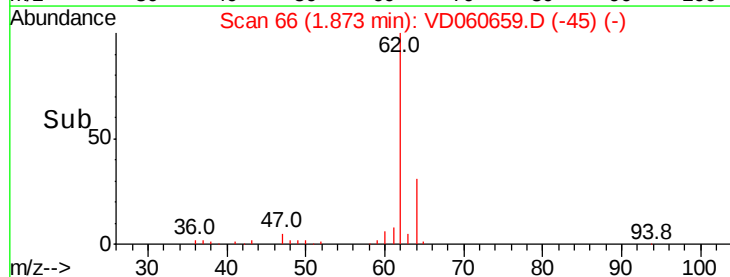
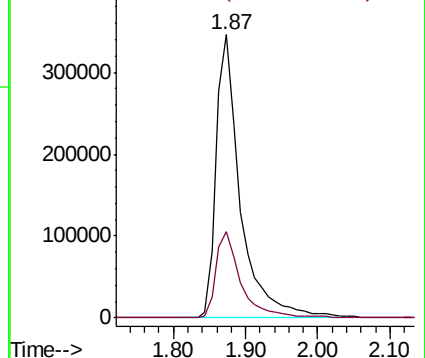
62 100

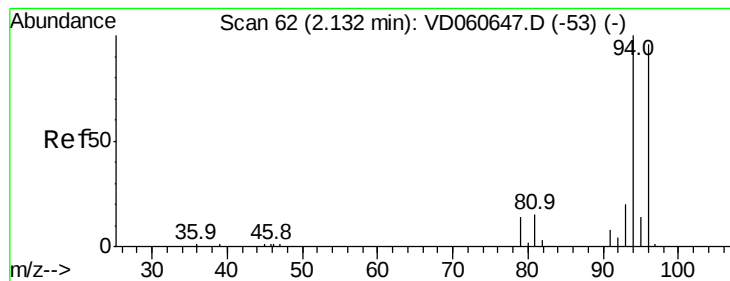
64 30.7 25.0 37.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 56.117 ug/l

RT: 2.17 min Scan# 96

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

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ClientSampleId :

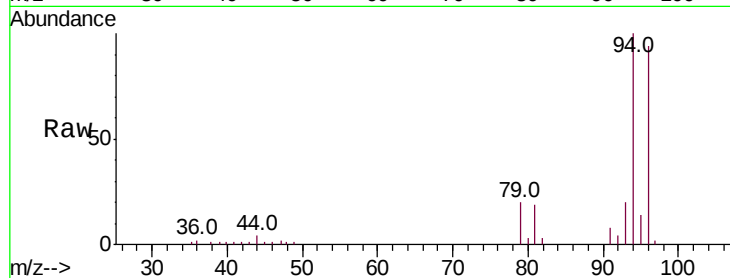
ICVVD122018

Tot Ion: 94 Resp: 207085

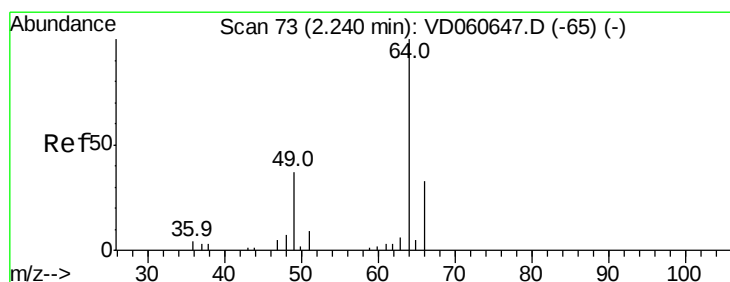
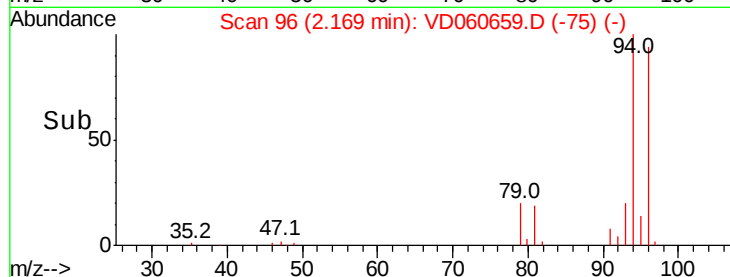
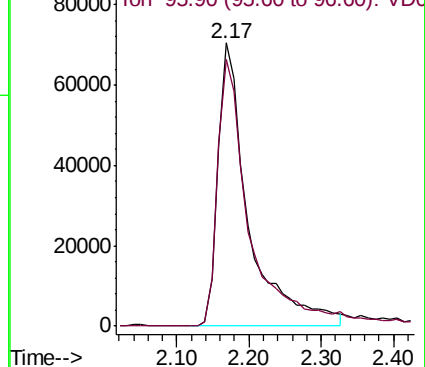
Ion Ratio Lower Upper

94 100

96 94.3 77.2 115.8



Abundance Ion 93.90 (93.60 to 94.60): VDC
Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 53.317 ug/l

RT: 2.28 min Scan# 107

Delta R.T. 0.00 min

Lab File: VD060659.D

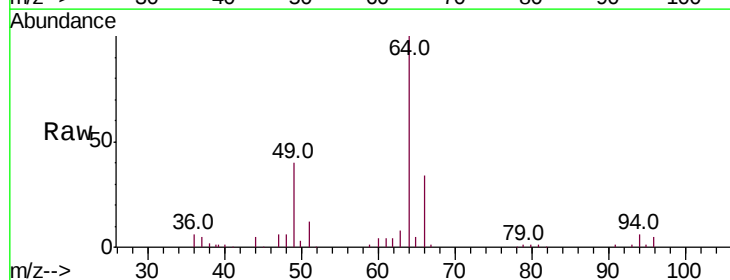
Acq: 20 Dec 2018 15:18

Tgt Ion: 64 Resp: 262131

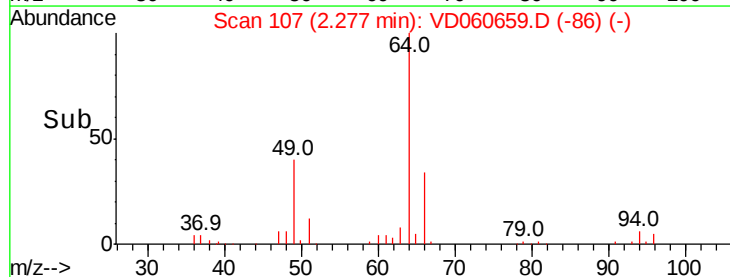
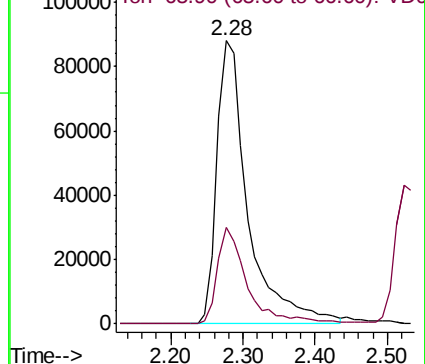
Ion Ratio Lower Upper

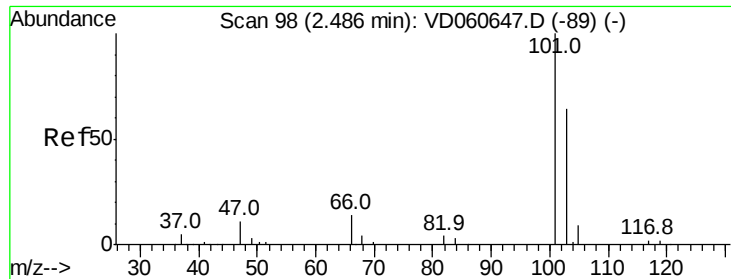
64 100

66 34.2 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC



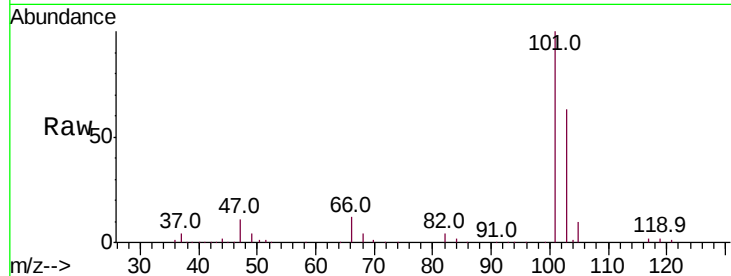


#7

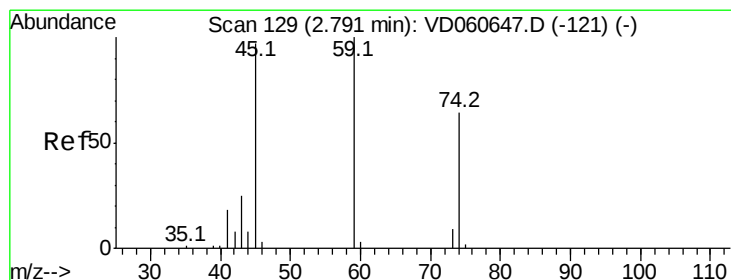
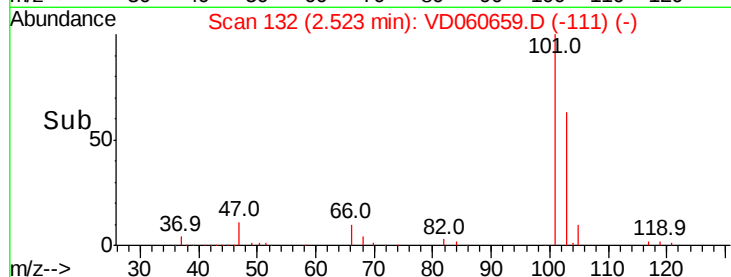
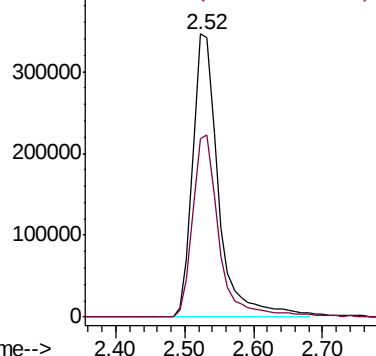
Trichlorofluoromethane
 Concen: 49.401 ug/l
 RT: 2.52 min Scan# 132
 Delta R.T. 0.00 min
 Lab File: VD060659.D
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Tot Ion:101 Resp: 905222
 Ion Ratio Lower Upper
 101 100
 103 62.8 51.9 77.9



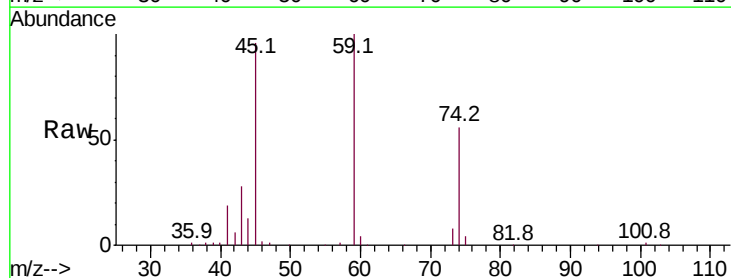
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



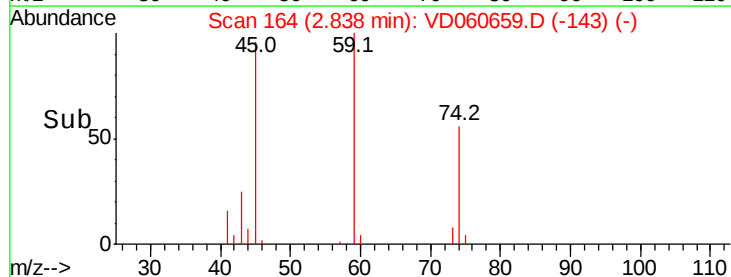
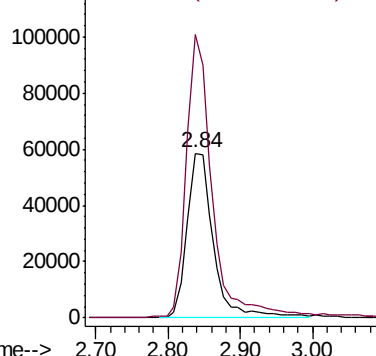
#8

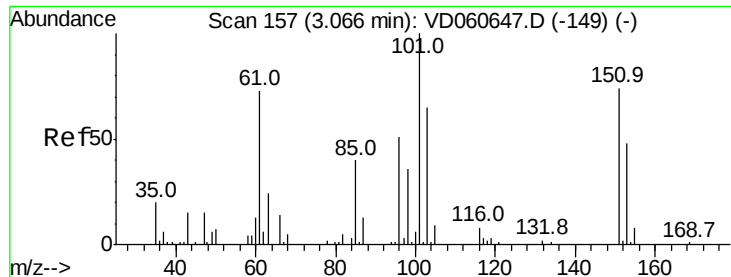
Diethyl Ether
 Concen: 48.309 ug/l
 RT: 2.84 min Scan# 164
 Delta R.T. 0.00 min
 Lab File: VD060659.D
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Tgt Ion: 74 Resp: 148100
 Ion Ratio Lower Upper
 74 100
 45 171.8 79.3 238.1



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: 47.304 ug/l

RT: 3.11 min Scan# 192

Delta R.T. 0.01 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

ICVVD122018

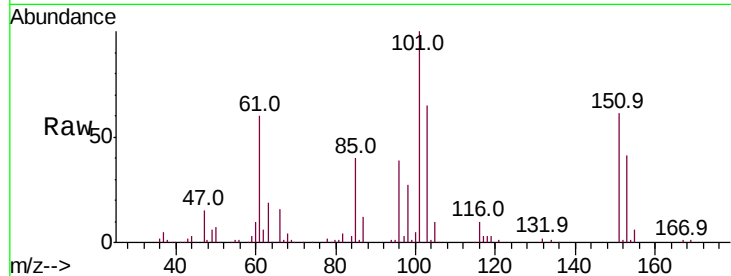
Tot Ion:101 Resp: 562250

Ion Ratio Lower Upper

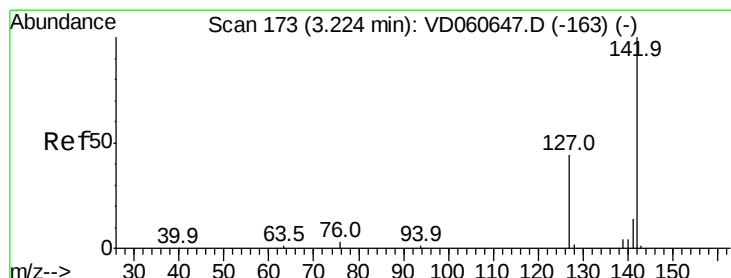
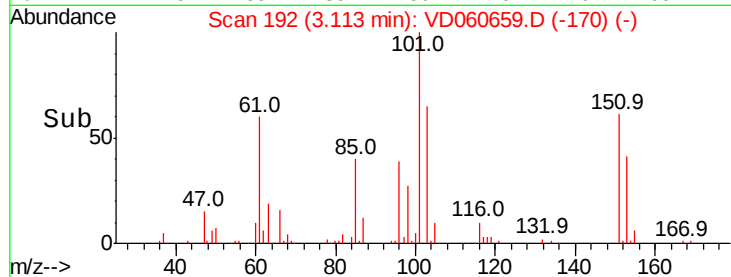
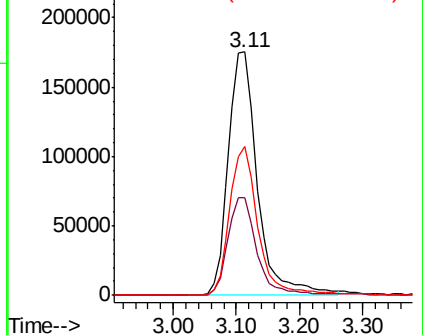
101 100

85 40.3 33.4 50.0

151 60.9 47.5 71.3



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: 49.112 ug/l

RT: 3.26 min Scan# 207

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

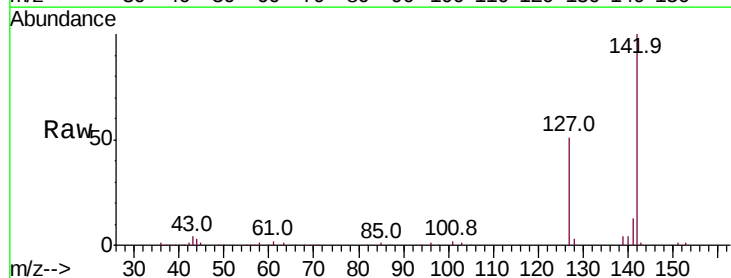
Tgt Ion:142 Resp: 613486

Ion Ratio Lower Upper

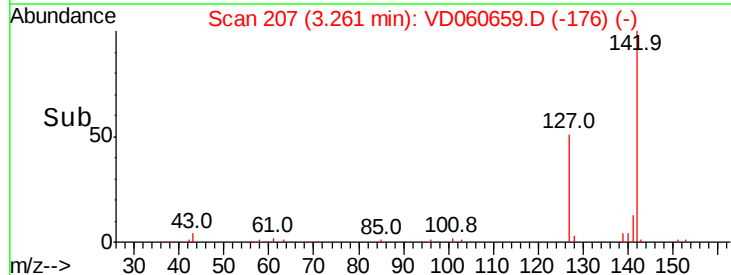
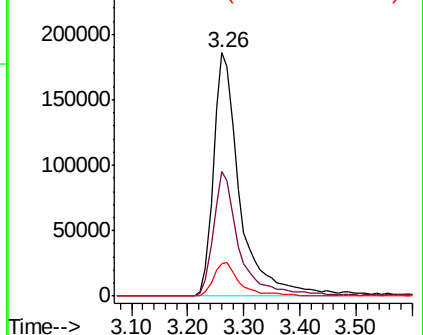
142 100

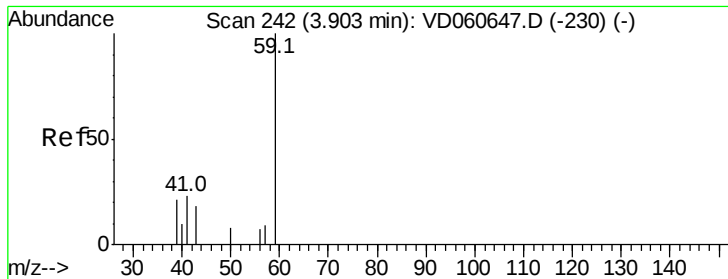
127 51.0 39.5 59.3

141 13.2 11.3 16.9



Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V



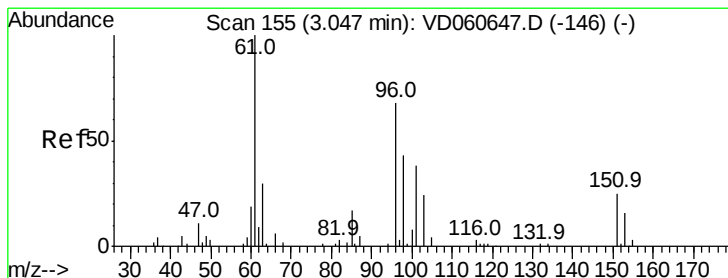
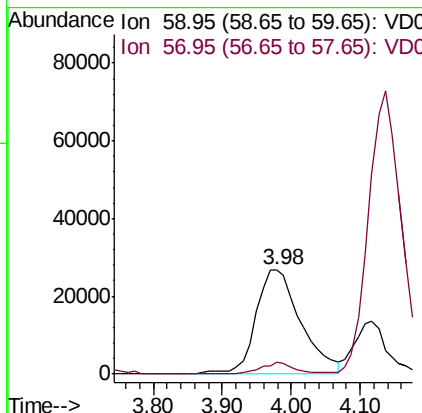
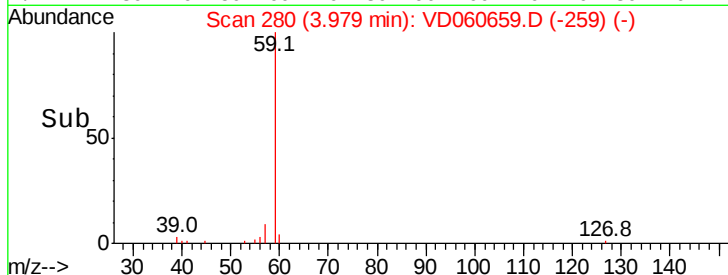
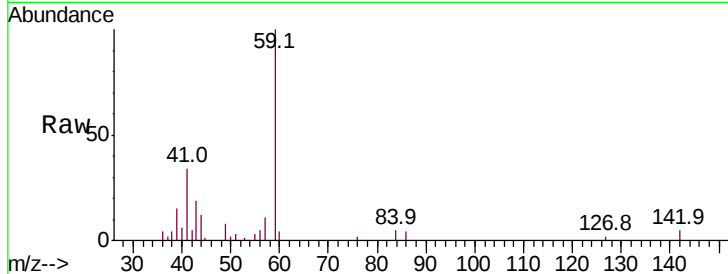


#11

Tert butyl alcohol
Concen: 240.884 ug/l
RT: 3.98 min Scan# 280
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Instrument :
MSVOA_D
ClientSampleId :
ICVVD122018

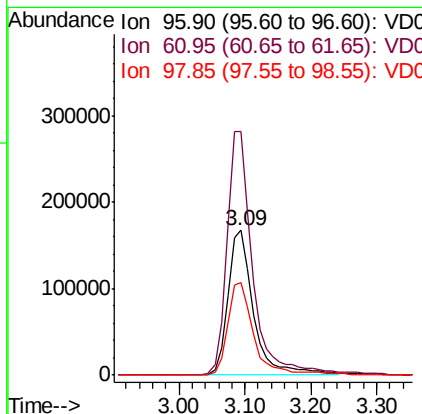
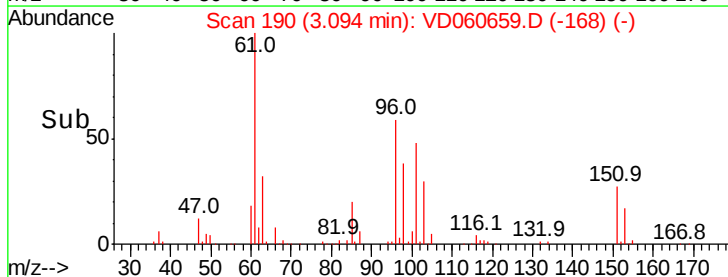
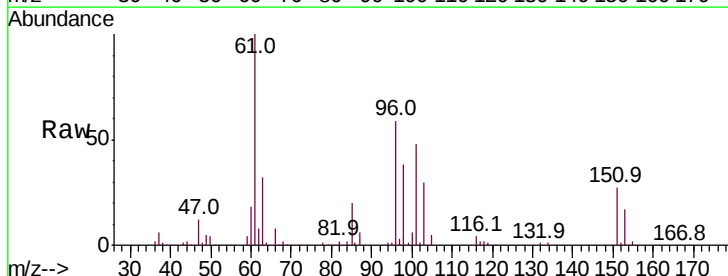
Tot Ion: 59 Resp: 122760
Ion Ratio Lower Upper
59 100
57 11.5 7.8 11.6

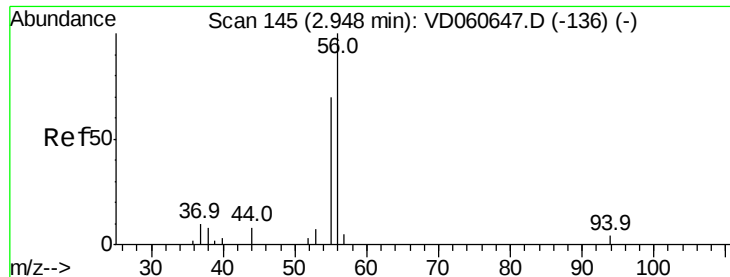


#12

1,1-Dichloroethene
Concen: 46.664 ug/l
RT: 3.09 min Scan# 190
Delta R.T. 0.01 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 96 Resp: 455734
Ion Ratio Lower Upper
96 100
61 168.2 136.2 204.4
98 64.0 50.7 76.1





#13

Acrolein

Concen: 209.882 ug/l

RT: 3.00 min Scan# 180

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

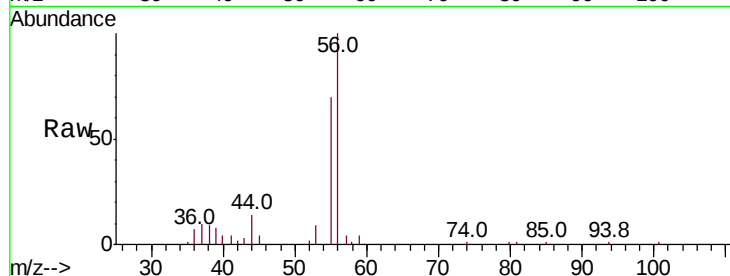
ICVVD122018

Tot Ion: 56 Resp: 108998

Ion Ratio Lower Upper

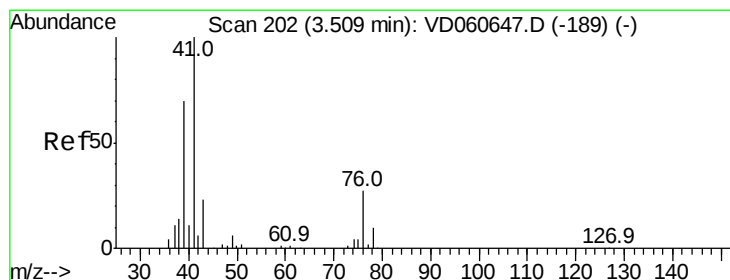
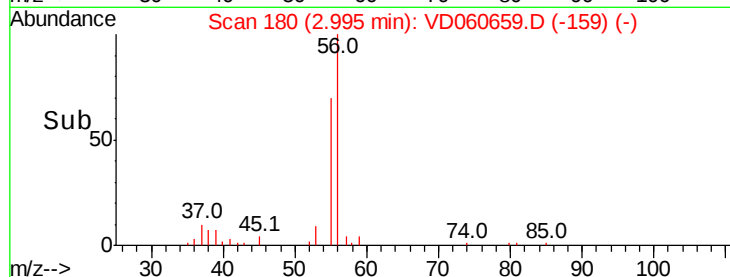
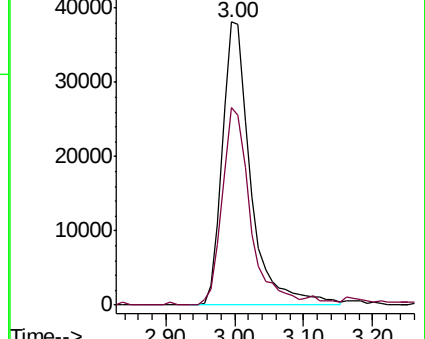
56 100

55 70.0 57.7 86.5



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 46.947 ug/l

RT: 3.56 min Scan# 237

Delta R.T. 0.01 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

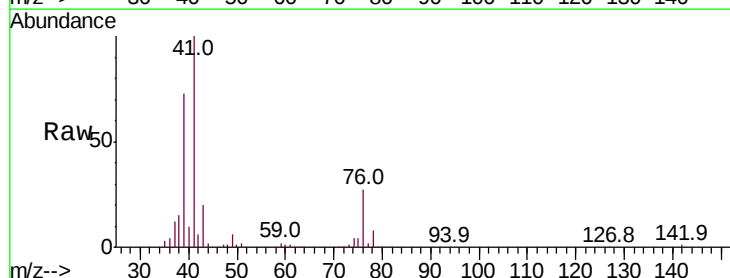
Tgt Ion: 41 Resp: 841308

Ion Ratio Lower Upper

41 100

39 72.6 59.6 89.4

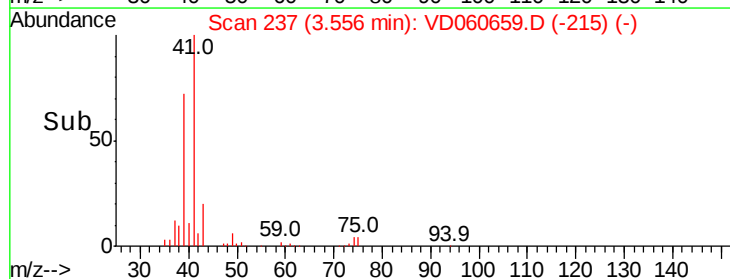
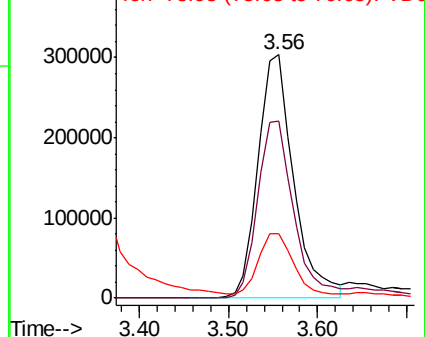
76 26.6 21.8 32.6

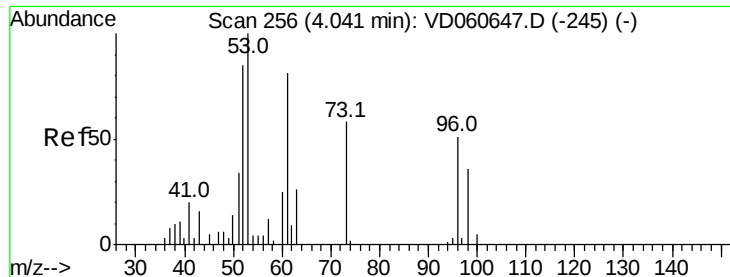


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 227.711 ug/l

RT: 4.10 min Scan# 292

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

ICVVD122018

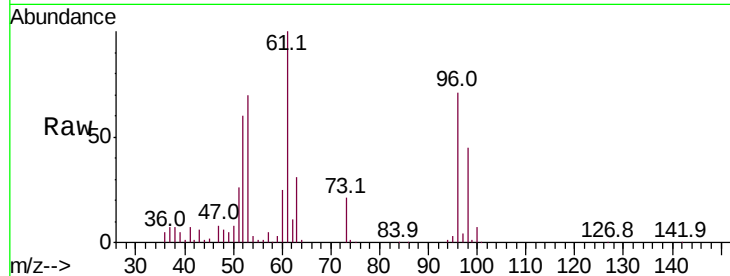
Tot Ion: 53 Resp: 673726

Ion Ratio Lower Upper

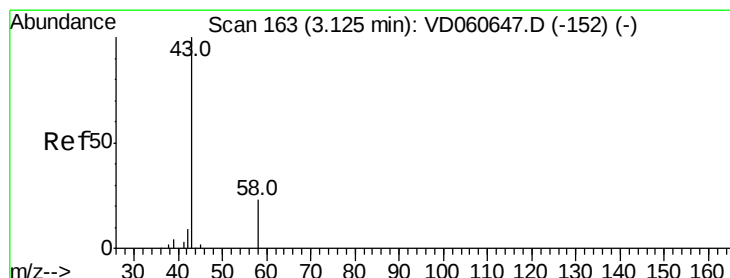
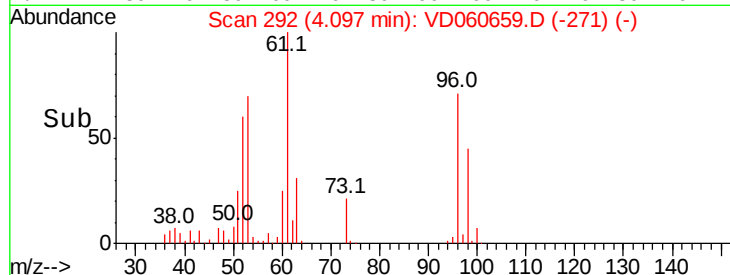
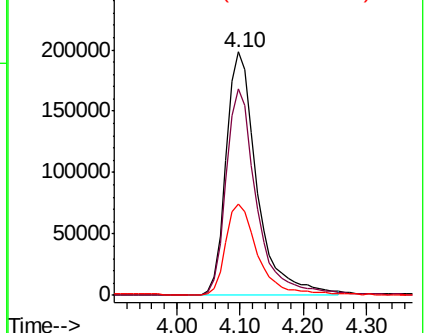
53 100

52 84.7 66.7 100.1

51 37.3 32.7 49.1



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: 234.690 ug/l

RT: 3.17 min Scan# 198

Delta R.T. 0.00 min

Lab File: VD060659.D

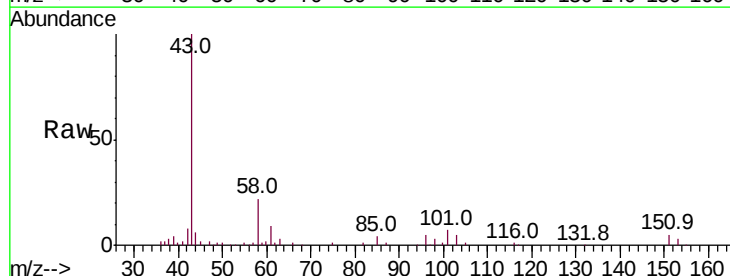
Acq: 20 Dec 2018 15:18

Tgt Ion: 43 Resp: 499784

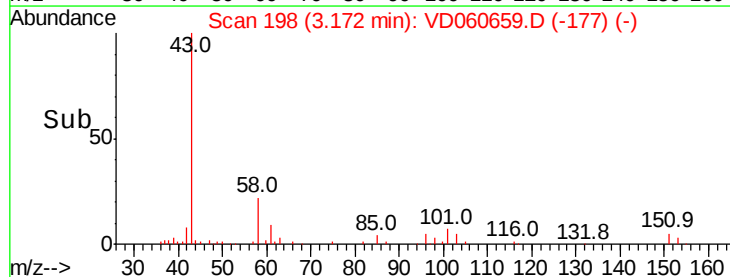
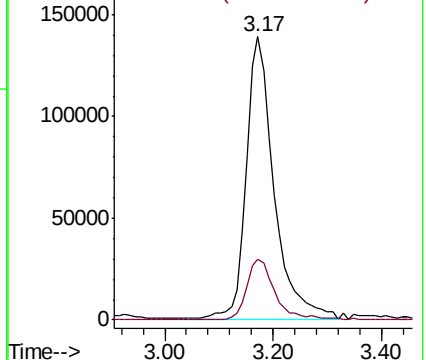
Ion Ratio Lower Upper

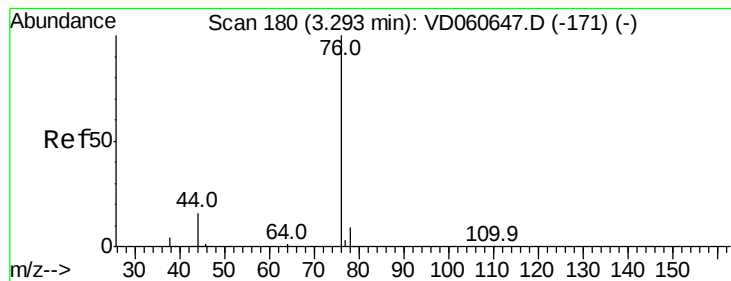
43 100

58 21.6 18.2 27.2



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





#17

Carbon Disulfide

Concen: 49.045 ug/l

RT: 3.33 min Scan# 214

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

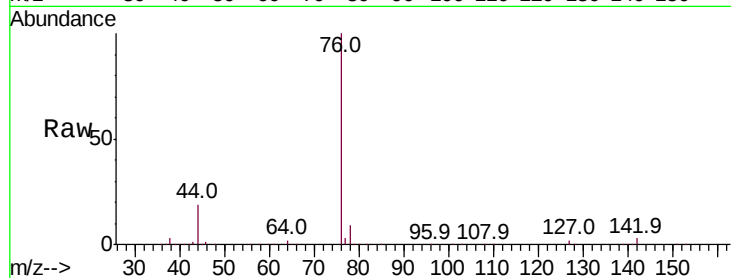
ICVVD122018

Tot Ion: 76 Resp: 1529719

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.33

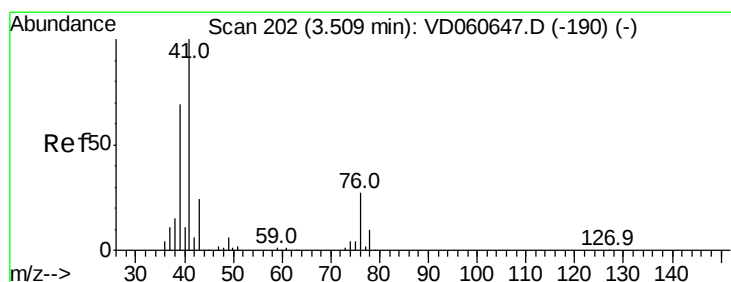
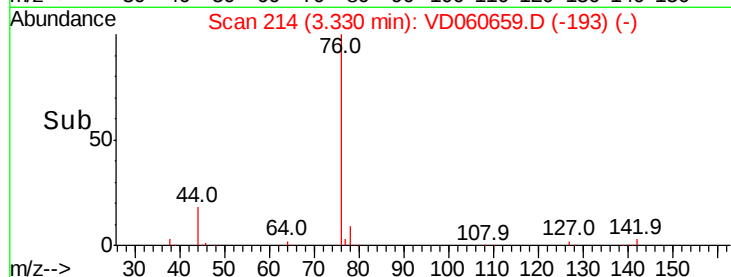
600000

400000

200000

0

Time-->



#18

Methyl Acetate

Concen: 45.912 ug/l

RT: 3.57 min Scan# 238

Delta R.T. 0.00 min

Lab File: VD060659.D

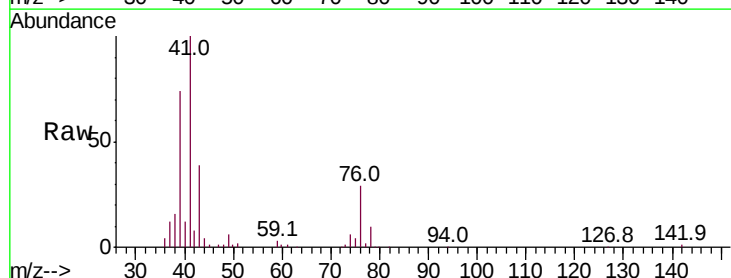
Acq: 20 Dec 2018 15:18

Tgt Ion: 43 Resp: 242308

Ion Ratio Lower Upper

43 100

74 16.4 12.4 18.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.57

80000

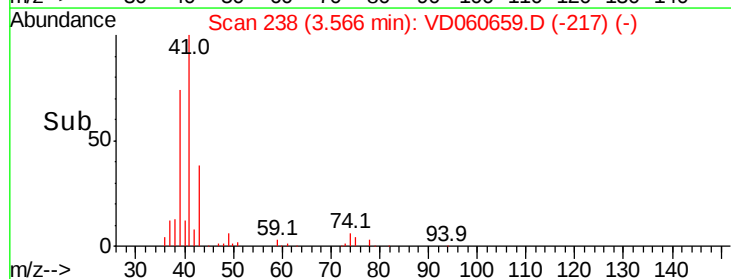
60000

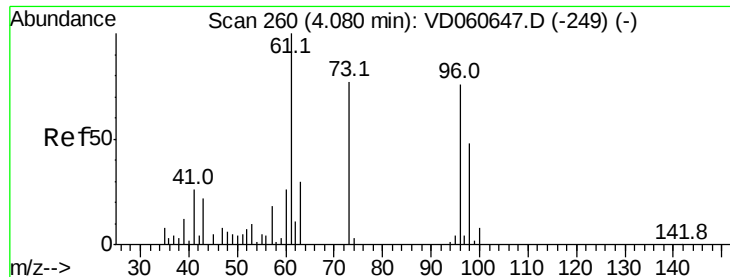
40000

20000

0

Time-->



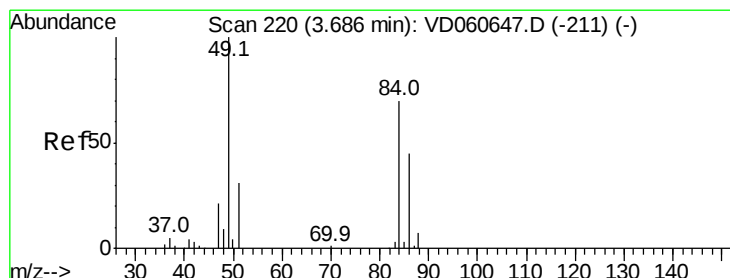
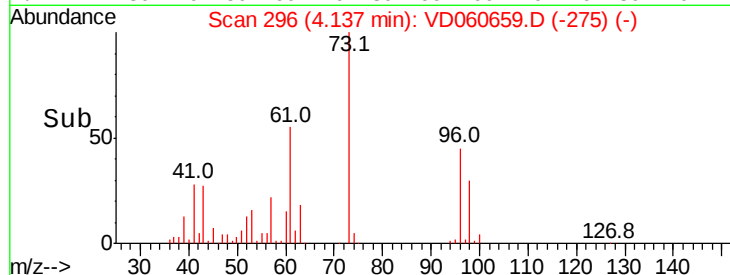
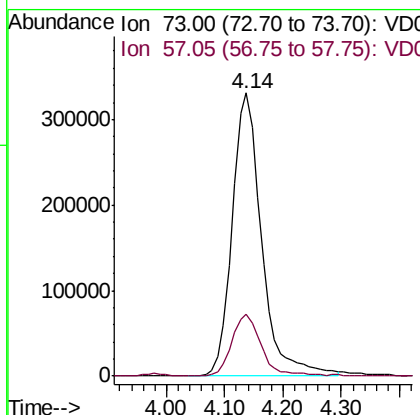
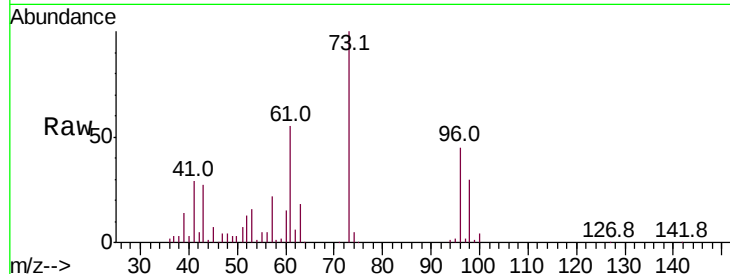


#19

Methyl tert-butyl Ether
 Concen: 47.054 ug/l
 RT: 4.14 min Scan# 296
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD122018

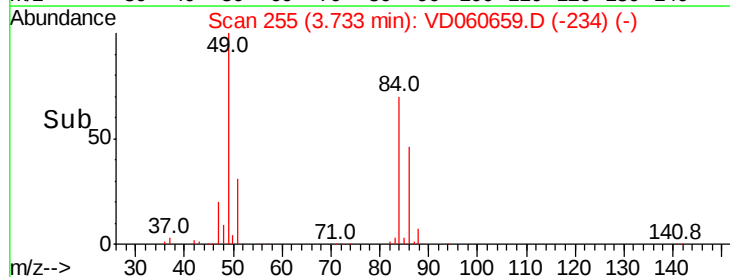
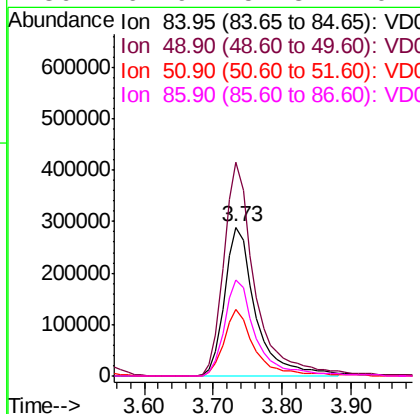
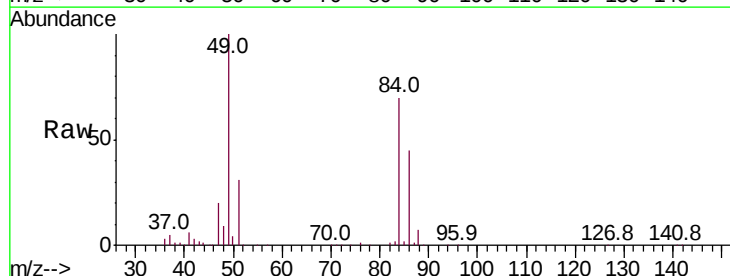
Tot Ion: 73 Resp: 1165891
 Ion Ratio Lower Upper
 73 100
 57 22.0 17.6 26.4

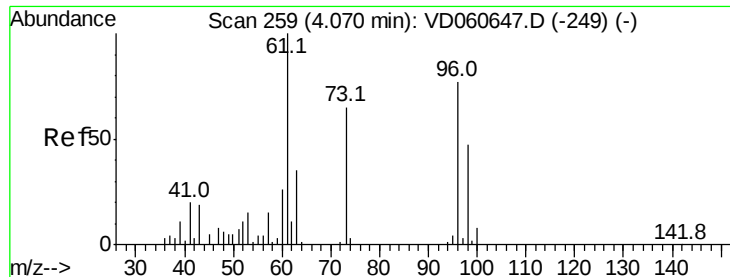


#20

Methylene Chloride
 Concen: 40.772 ug/l
 RT: 3.73 min Scan# 255
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Tgt Ion: 84 Resp: 901707
 Ion Ratio Lower Upper
 84 100
 49 143.9 113.6 170.4
 51 44.7 34.7 52.1
 86 64.9 52.8 79.2





#21

trans-1,2-Dichloroethene

Concen: 46.989 ug/l

RT: 4.12 min Scan# 294

Delta R.T. 0.01 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

ICVVD122018

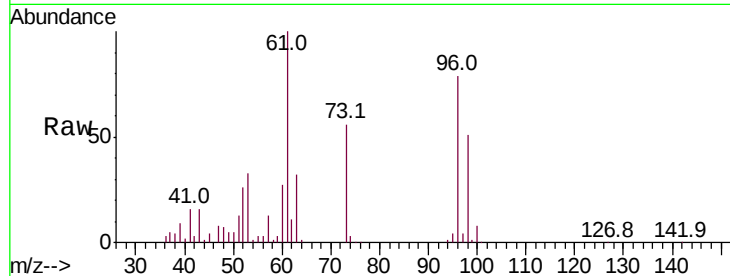
Tot Ion: 96 Resp: 939808

Ion Ratio Lower Upper

96 100

61 127.1 104.2 156.2

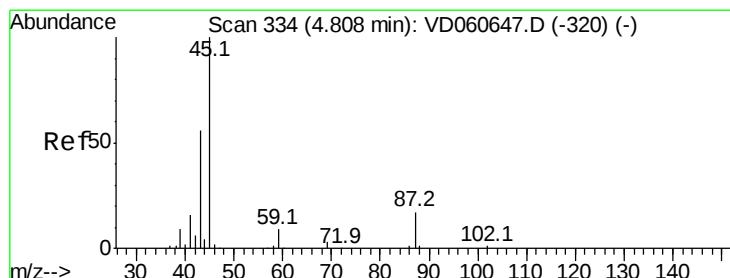
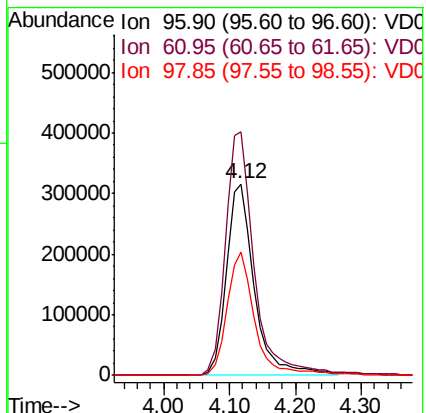
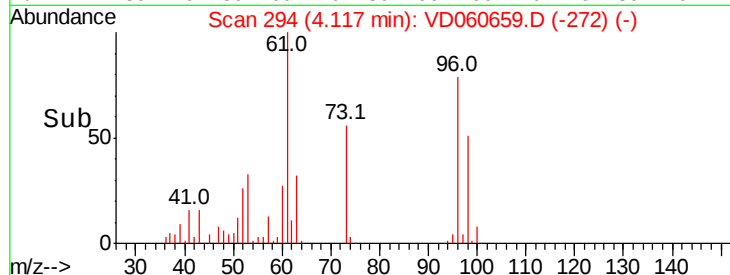
98 64.4 51.2 76.8



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: 46.503 ug/l

RT: 4.86 min Scan# 370

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Tgt Ion: 45 Resp: 2829494

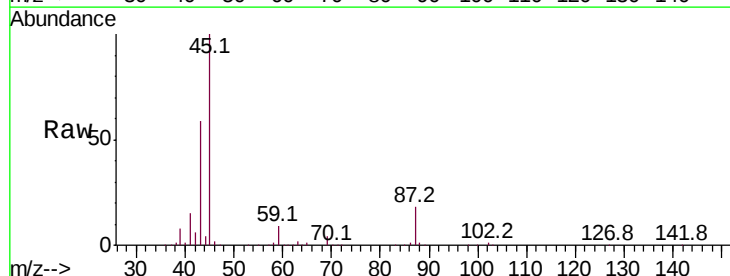
Ion Ratio Lower Upper

45 100

43 59.5 46.1 69.1

87 18.0 13.7 20.5

59 8.9 7.4 11.0

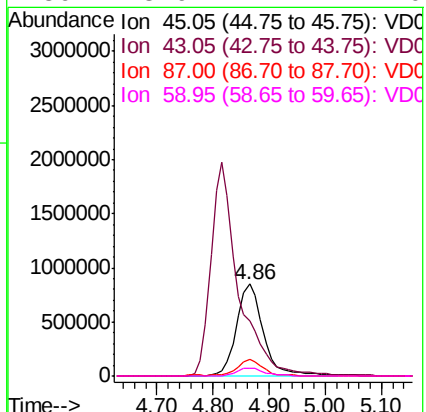
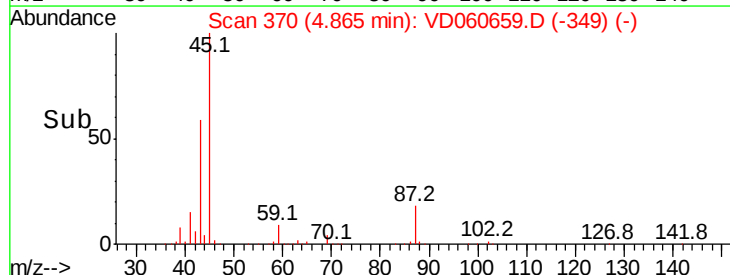


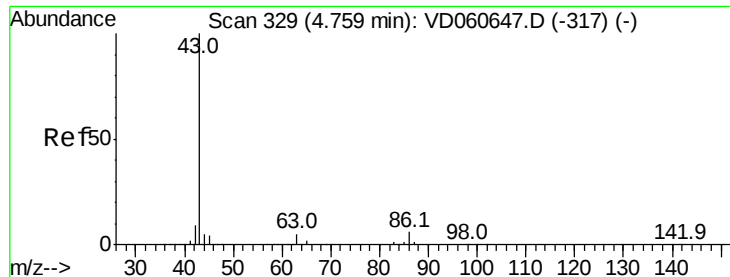
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 230.076 ug/l

RT: 4.82 min Scan# 365

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

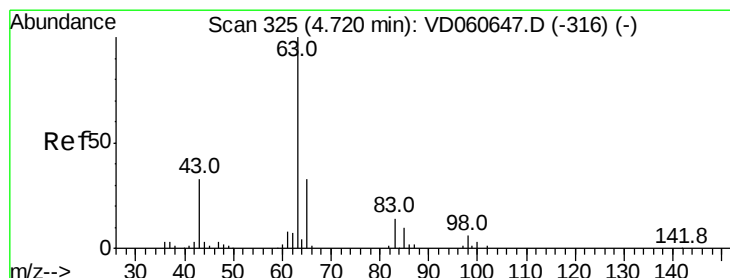
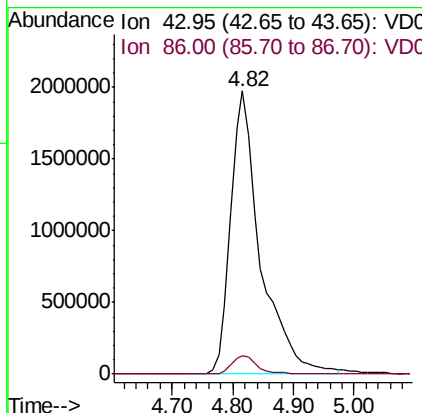
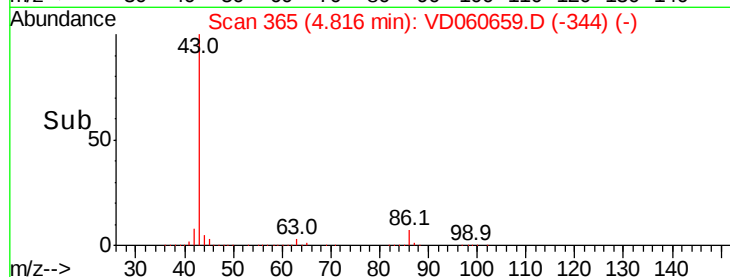
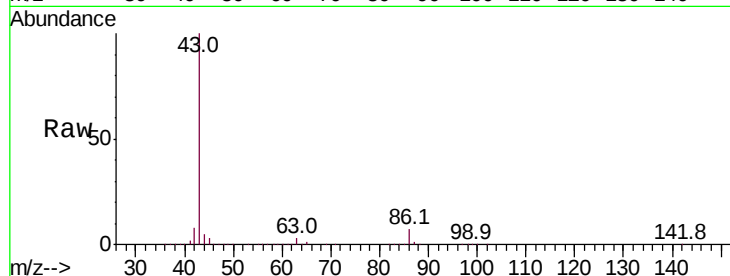
ICVVD122018

Tot Ion: 43 Resp: 6772745

Ion Ratio Lower Upper

43 100

86 6.5 5.6 8.4



#24

1,1-Dichloroethane

Concen: 47.020 ug/l

RT: 4.77 min Scan# 360

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

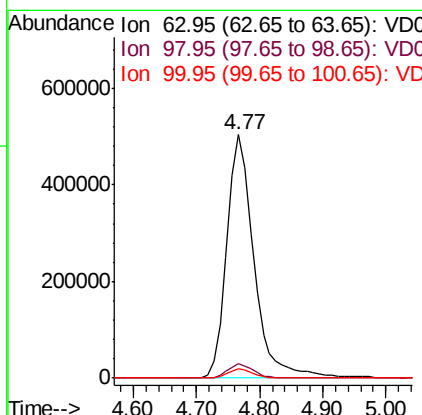
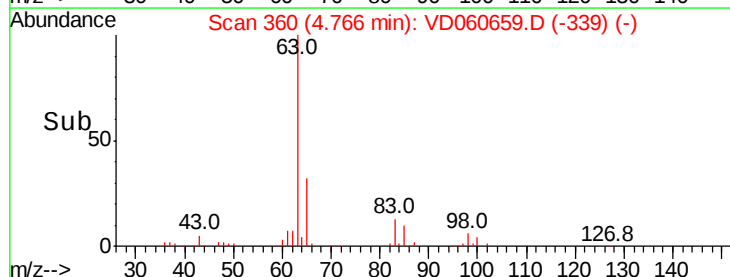
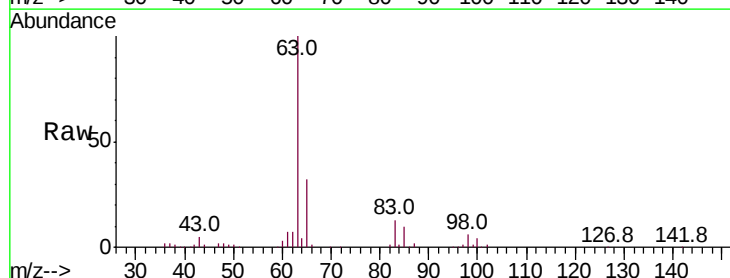
Tgt Ion: 63 Resp: 1504834

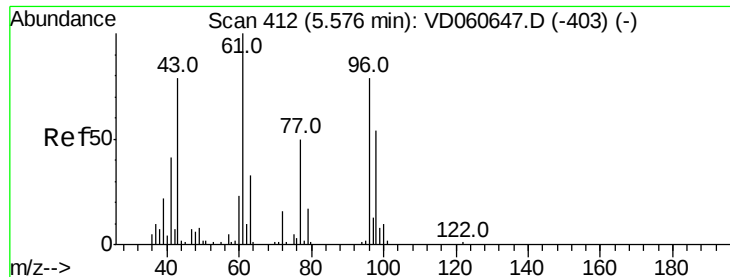
Ion Ratio Lower Upper

63 100

98 5.8 2.9 8.7

100 3.6 2.0 5.8





#25

2-Butanone

Concen: 231.564 ug/l

RT: 5.63 min Scan# 448

Delta R.T. 0.01 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

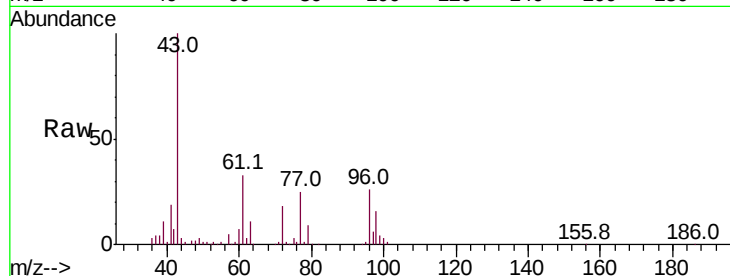
ICVVD122018

Tot Ion: 43 Resp: 943636

Ion Ratio Lower Upper

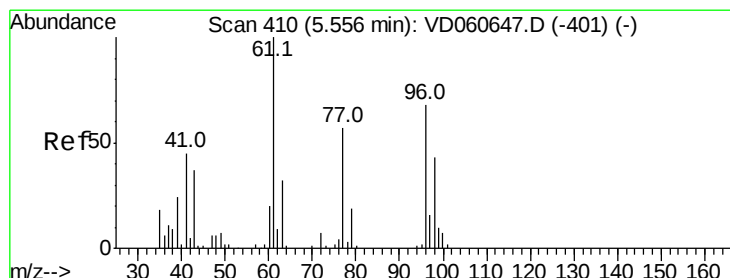
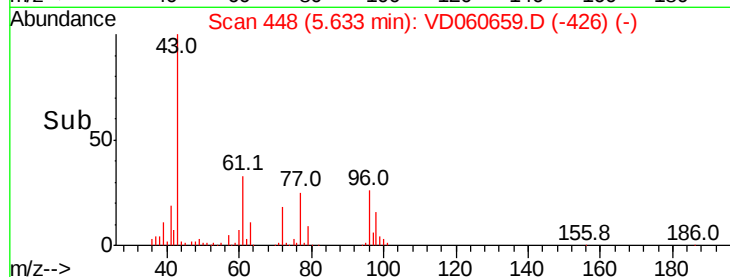
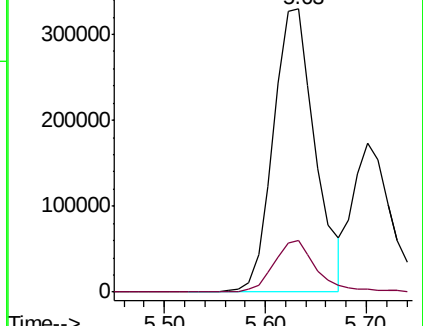
43 100

72 18.1 13.7 20.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 47.321 ug/l

RT: 5.59 min Scan# 444

Delta R.T. 0.00 min

Lab File: VD060659.D

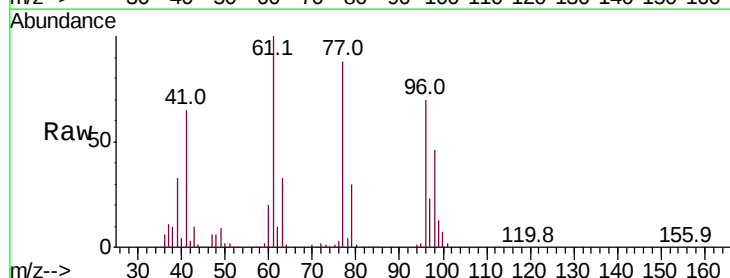
Acq: 20 Dec 2018 15:18

Tgt Ion: 77 Resp: 1195462

Ion Ratio Lower Upper

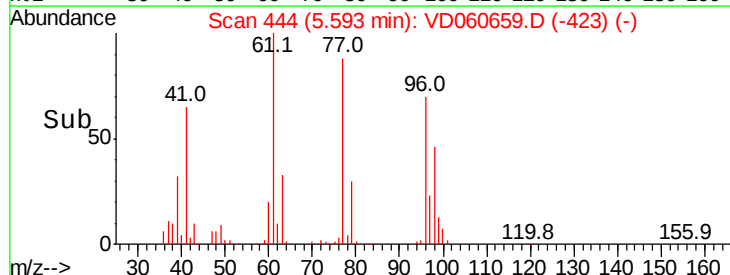
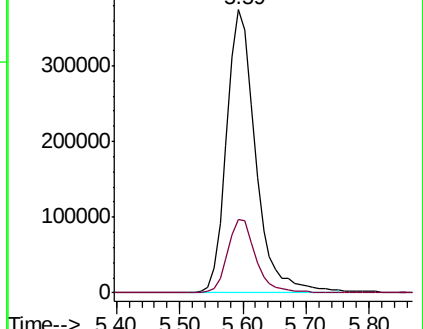
77 100

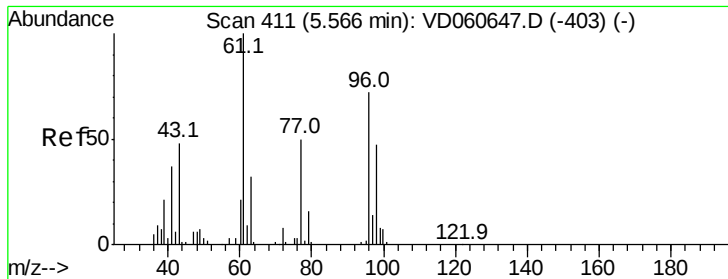
97 25.9 13.0 39.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



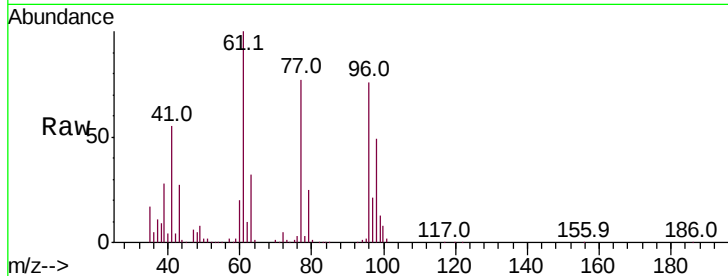


#27

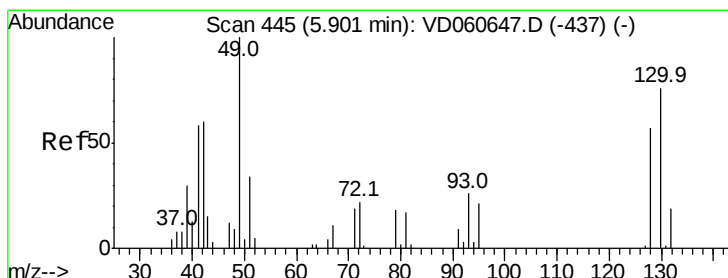
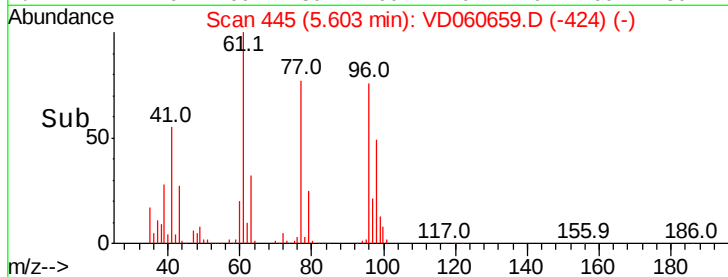
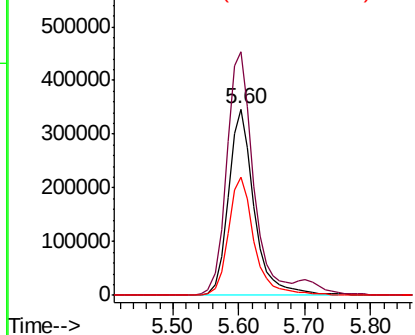
cis-1,2-Dichloroethene
 Concen: 46.834 ug/l
 RT: 5.60 min Scan# 445
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD122018

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.8	0.0	259.4
98	63.6	0.0	130.0



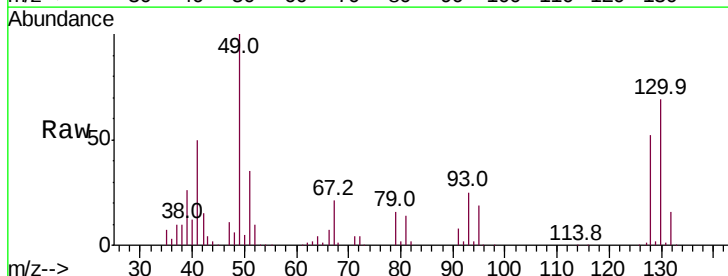
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



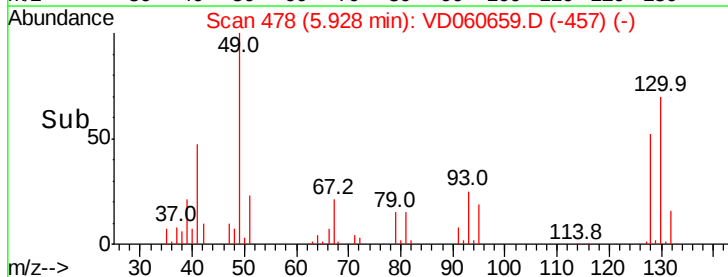
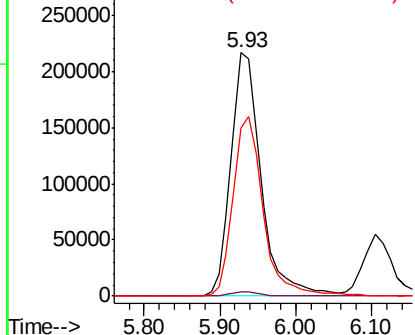
#28

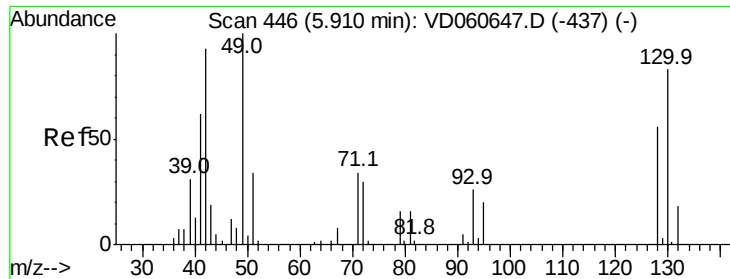
Bromochloromethane
 Concen: 44.250 ug/l
 RT: 5.93 min Scan# 478
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.4
130	69.3	56.2	84.2



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





#29

Tetrahydrofuran

Concen: 224.310 ug/l

RT: 5.96 min Scan# 481

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

ICVVD122018

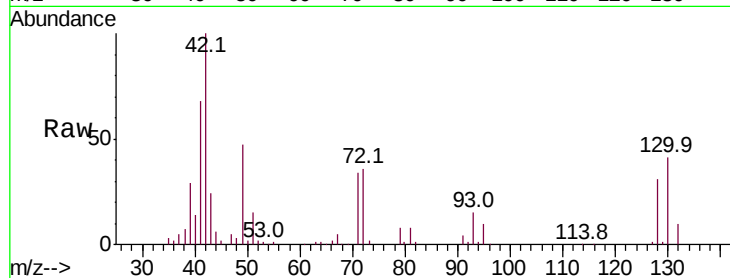
Tot Ion: 42 Resp: 518189

Ion Ratio Lower Upper

42 100

72 34.8 28.0 42.0

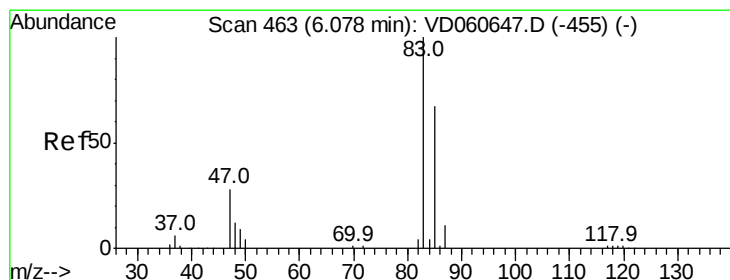
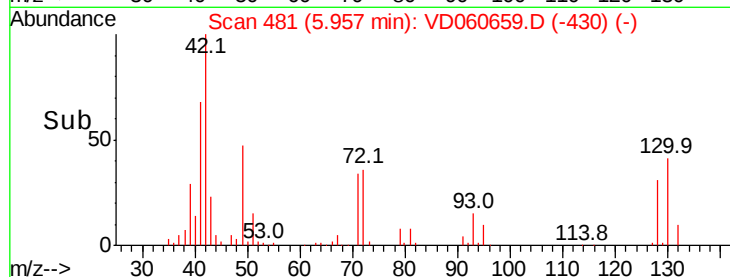
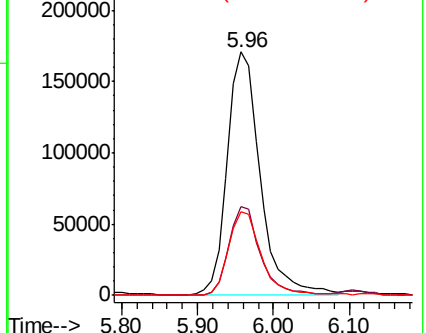
71 34.0 27.0 40.6



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 45.752 ug/l

RT: 6.10 min Scan# 496

Delta R.T. 0.00 min

Lab File: VD060659.D

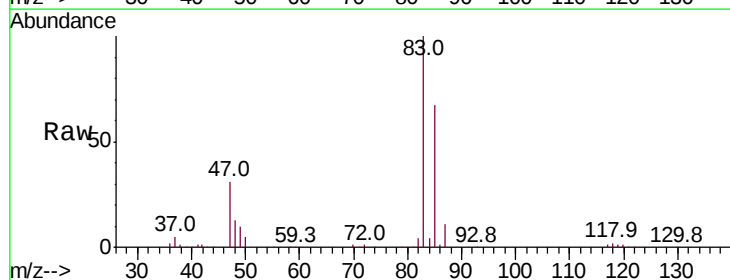
Acq: 20 Dec 2018 15:18

Tgt Ion: 83 Resp: 1473369

Ion Ratio Lower Upper

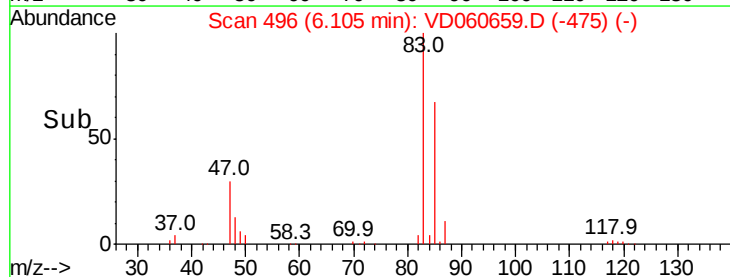
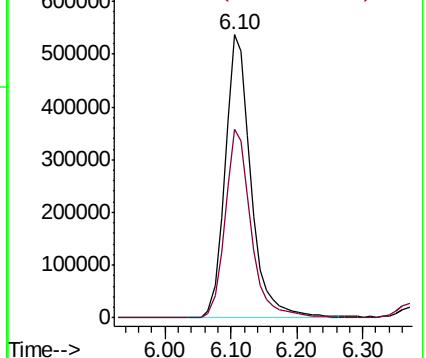
83 100

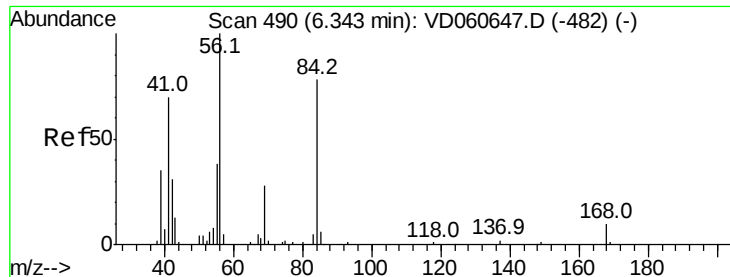
85 66.5 53.0 79.6



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

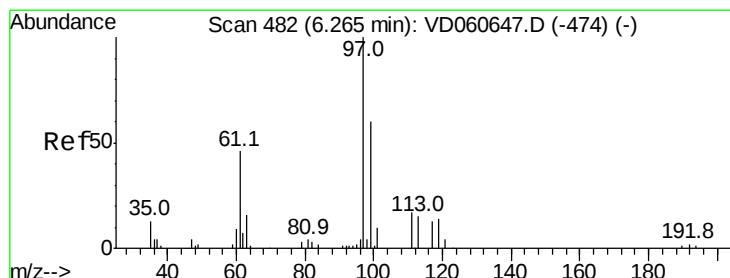
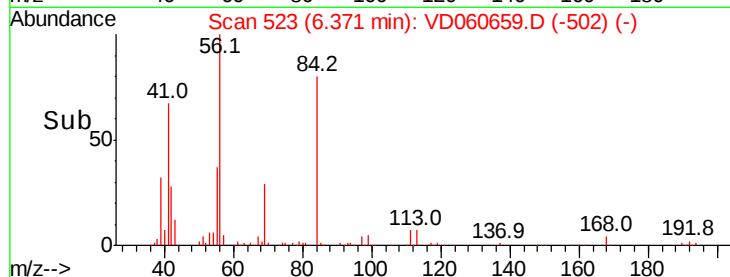
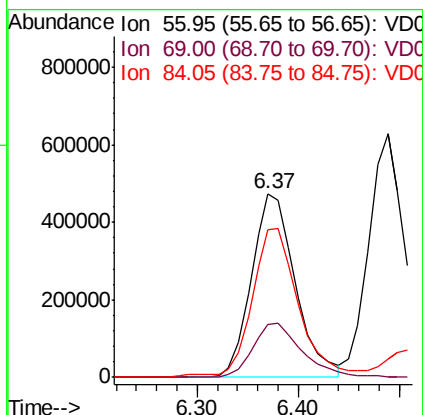
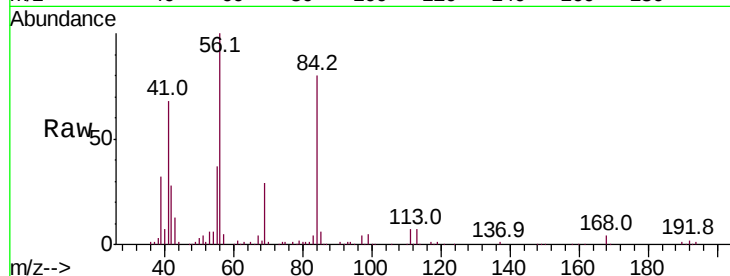




#31
Cyclohexane
Concen: 46.252 ug/l
RT: 6.37 min Scan# 523
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

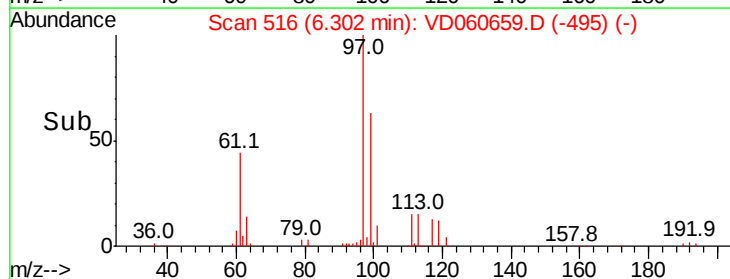
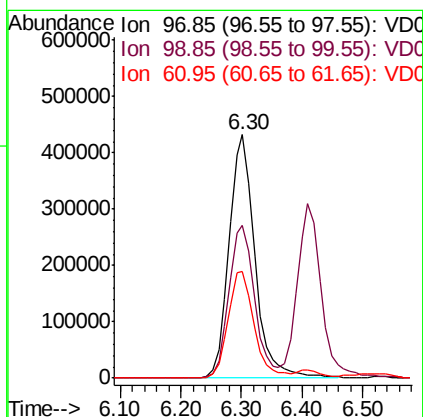
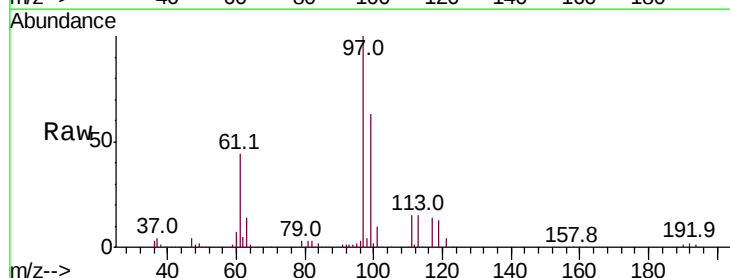
Instrument :
MSVOA_D
ClientSampleId :
ICVVD122018

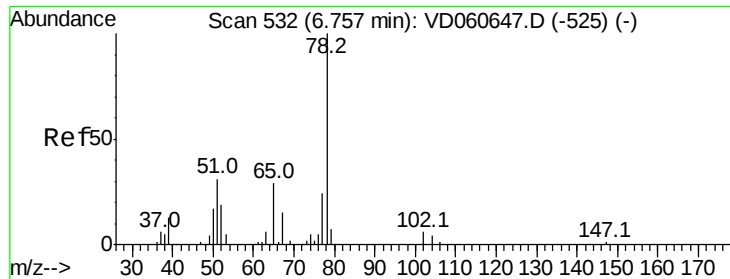
Tot Ion: 56 Resp: 1424508
Ion Ratio Lower Upper
56 100
69 28.9 23.6 35.4
84 80.3 65.8 98.6



#32
1,1,1-Trichloroethane
Concen: 48.107 ug/l
RT: 6.30 min Scan# 516
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 97 Resp: 1281725
Ion Ratio Lower Upper
97 100
99 62.8 50.5 75.7
61 43.9 34.6 51.8

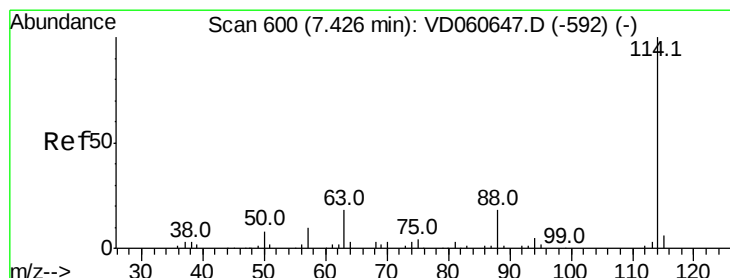
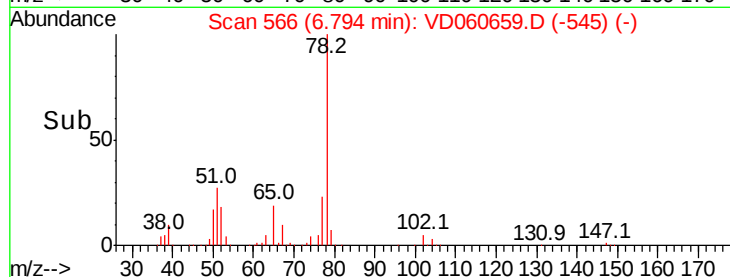
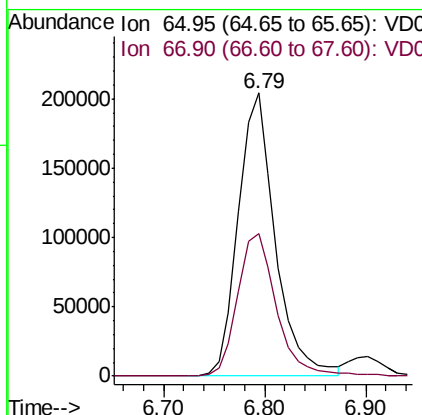
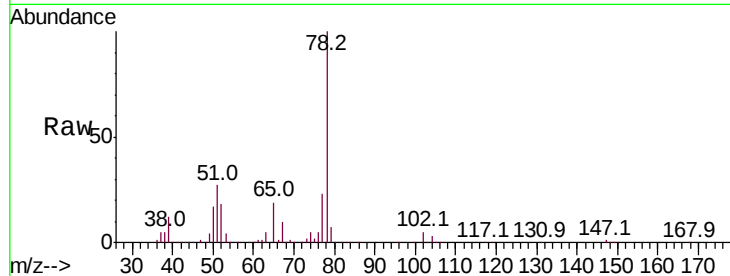




#33
 1,2-Dichloroethane-d4
 Concen: 48.107 ug/l
 RT: 6.79 min Scan# 566
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

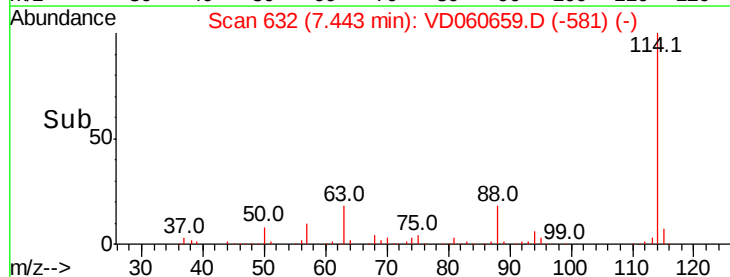
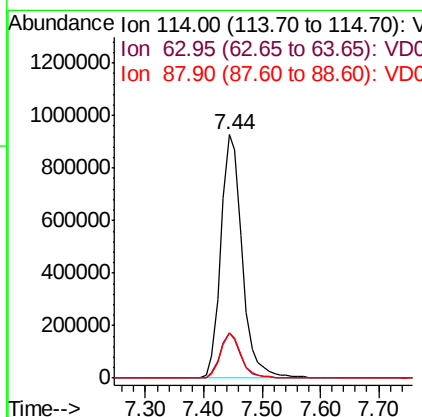
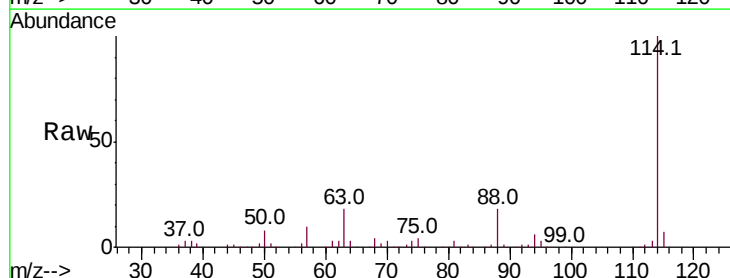
Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD122018

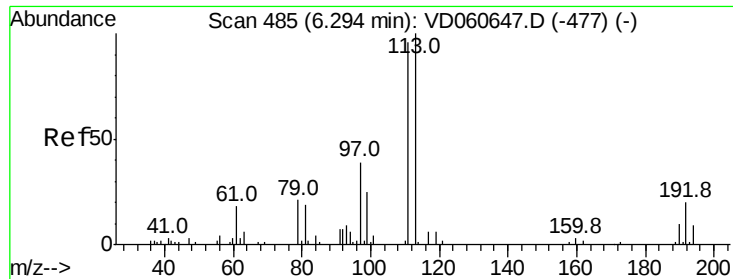
Tot Ion: 65 Resp: 522171
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 632
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Tgt Ion:114 Resp: 2350097
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 36.2
 88 18.4 0.0 37.0

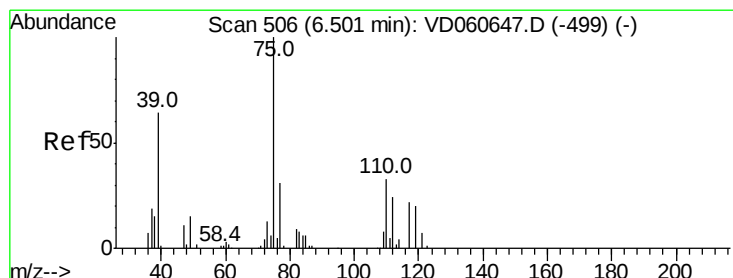
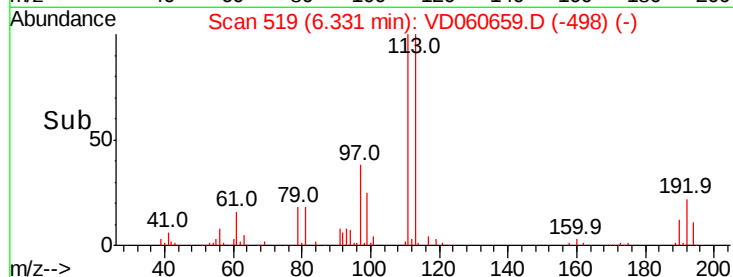
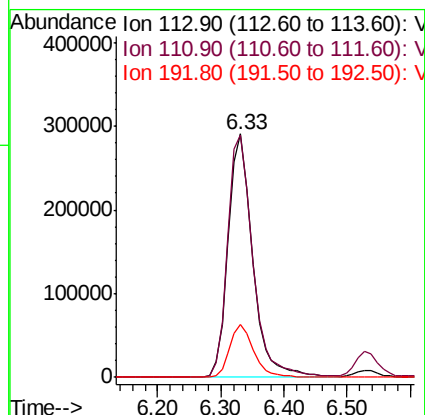
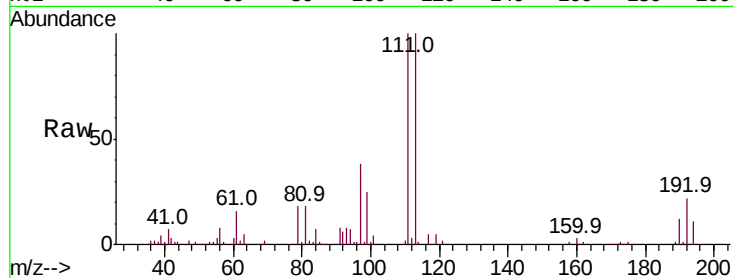




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.33 min Scan# 519
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

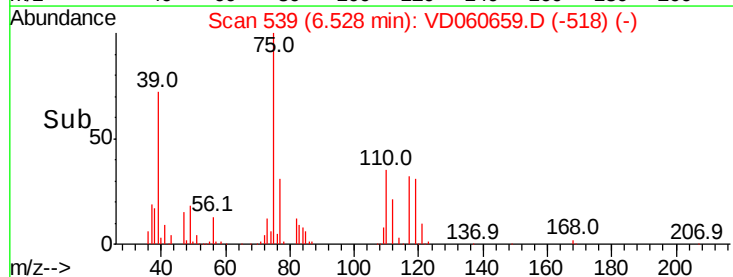
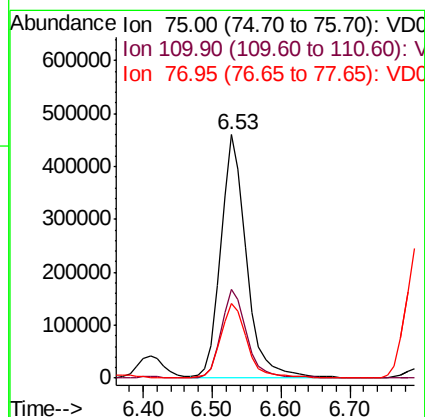
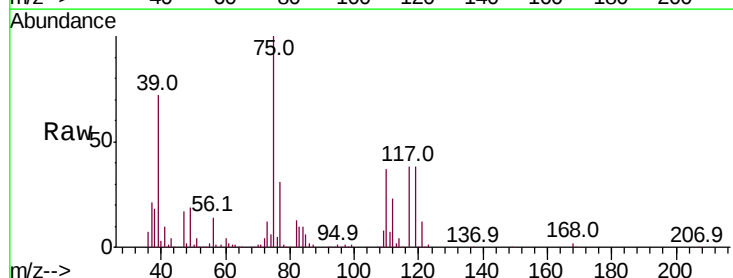
Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD122018

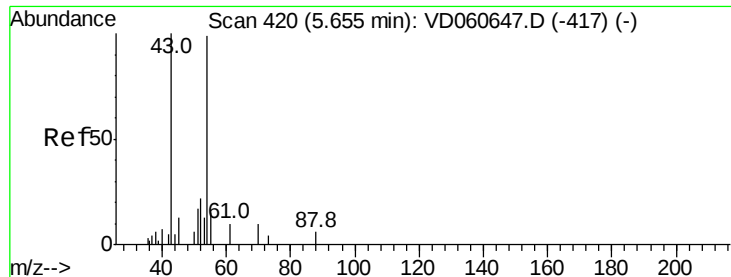
Tot Ion:113 Resp: 783621
 Ion Ratio Lower Upper
 113 100
 111 99.6 80.0 120.0
 192 21.8 16.6 25.0



#36
 1,1-Dichloropropene
 Concen: 48.238 ug/l
 RT: 6.53 min Scan# 539
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Tgt Ion: 75 Resp: 1167344
 Ion Ratio Lower Upper
 75 100
 110 36.5 18.9 56.7
 77 30.9 25.4 38.0

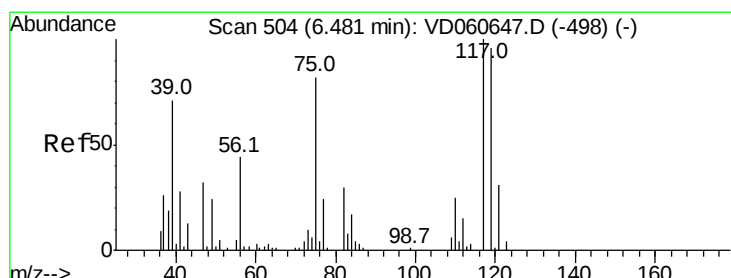
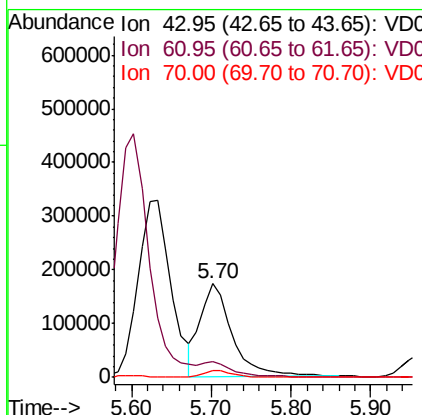
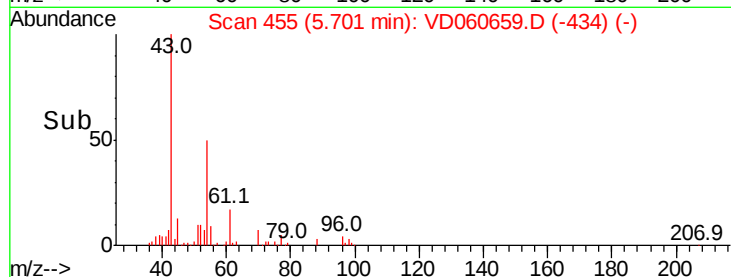
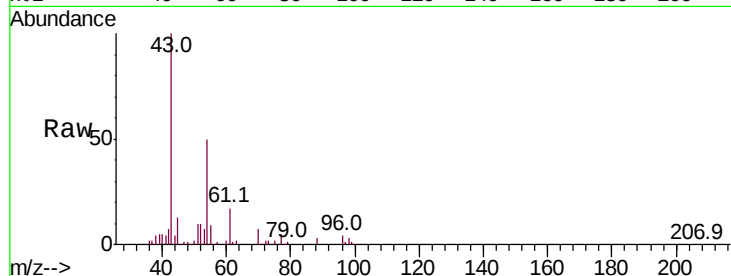




#37
Ethyl Acetate
Concen: 47.515 ug/l
RT: 5.70 min Scan# 455
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

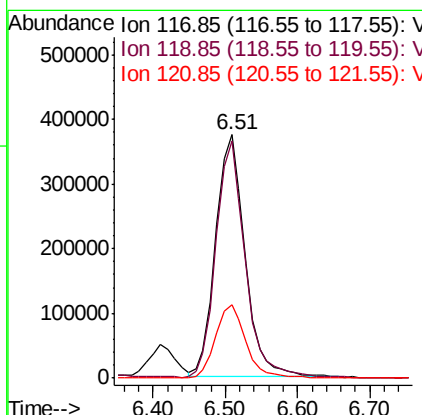
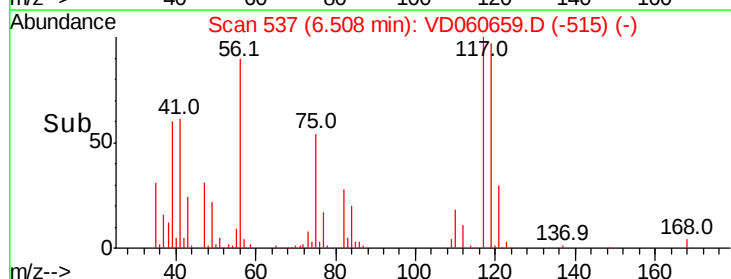
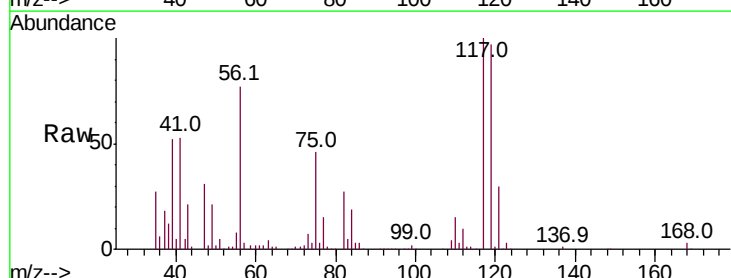
Instrument :
MSVOA_D
ClientSampleId :
ICVVD122018

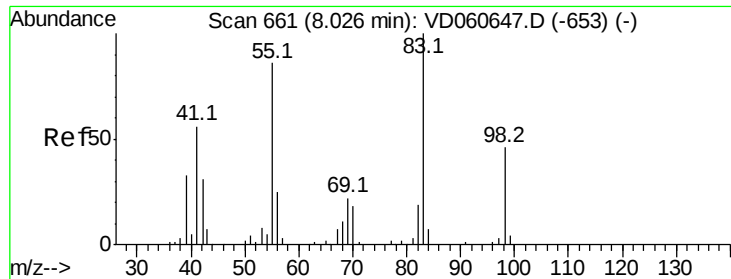
Tot Ion: 43 Resp: 480891
Ion Ratio Lower Upper
43 100
61 17.0 11.8 17.6
70 7.5 5.8 8.6



#38
Carbon Tetrachloride
Concen: 49.614 ug/l
RT: 6.51 min Scan# 537
Delta R.T. 0.01 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 117 Resp: 1059218
Ion Ratio Lower Upper
117 100
119 97.5 77.0 115.4
121 30.1 24.7 37.1

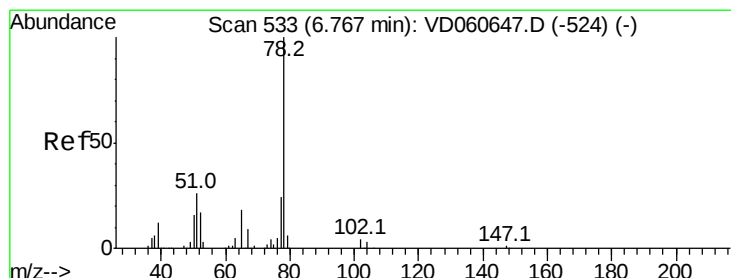
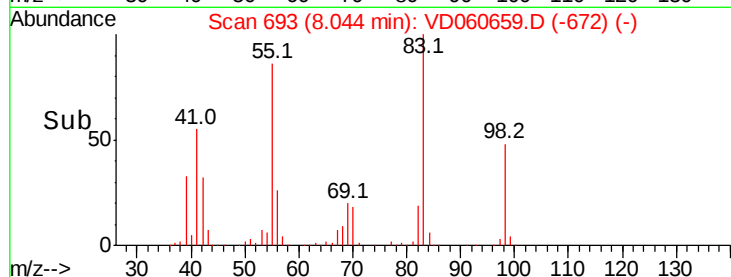
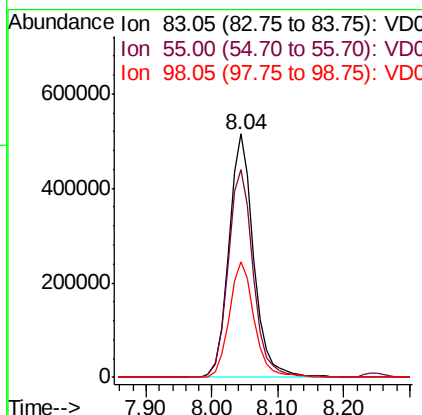
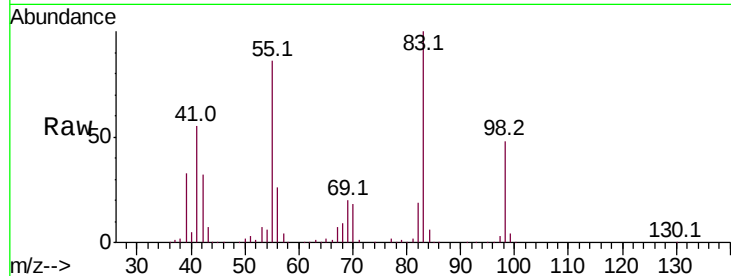




#39
Methvlcvclohexane
Concen: 49.154 ug/l
RT: 8.04 min Scan# 693
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

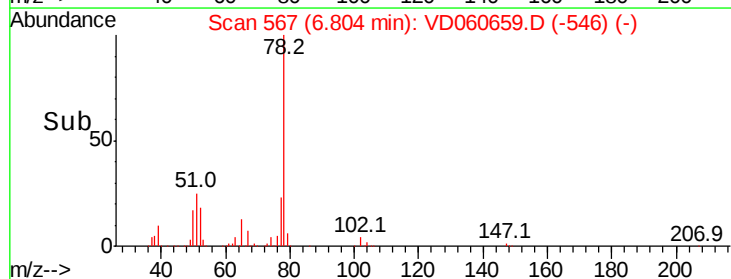
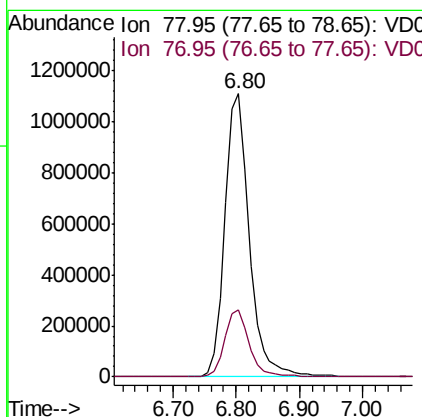
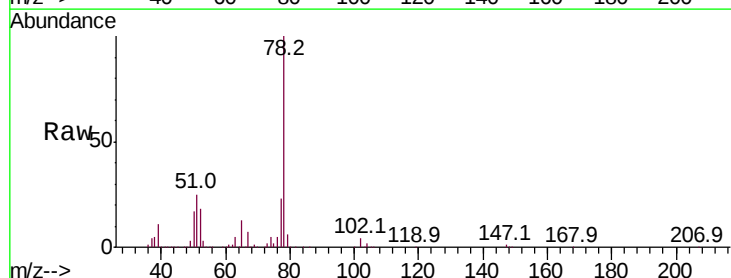
Instrument :
MSVOA_D
ClientSampleId :
ICVVD122018

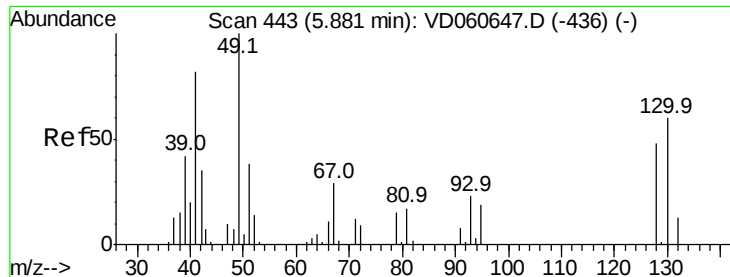
Tot Ion: 83 Resp: 1356626
Ion Ratio Lower Upper
83 100
55 85.6 68.6 102.8
98 47.7 38.1 57.1



#40
Benzene
Concen: 47.853 ug/l
RT: 6.80 min Scan# 567
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 78 Resp: 2991260
Ion Ratio Lower Upper
78 100
77 23.5 19.2 28.8





#41

Methacrylonitrile

Concen: 98.986 ug/l

RT: 5.95 min Scan# 480

Delta R.T. 0.02 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

ICVVD122018

Tot Ion: 41 Resp: 554148

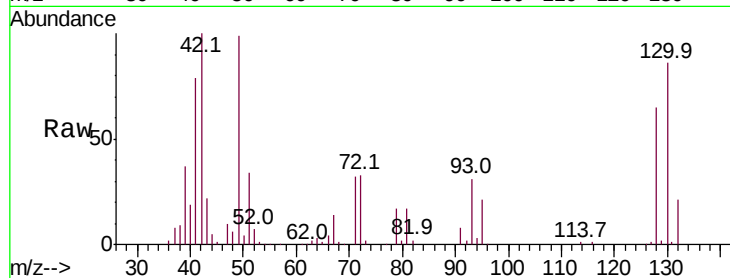
Ion Ratio Lower Upper

41 100

39 47.0 37.6 56.4

67 18.0 33.0 49.6#

52 8.3 15.5 23.3#

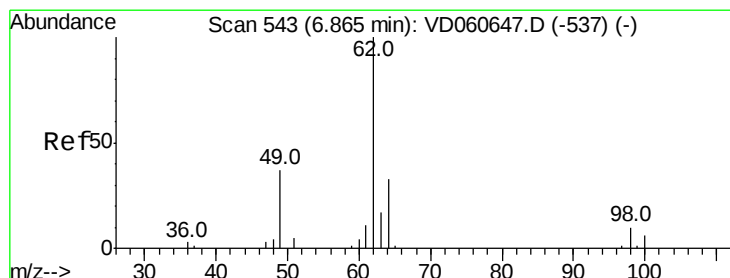
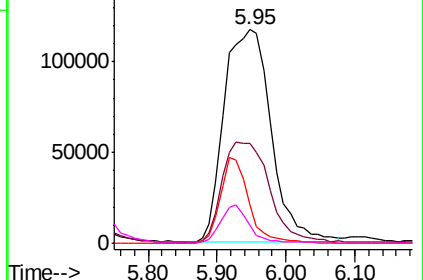
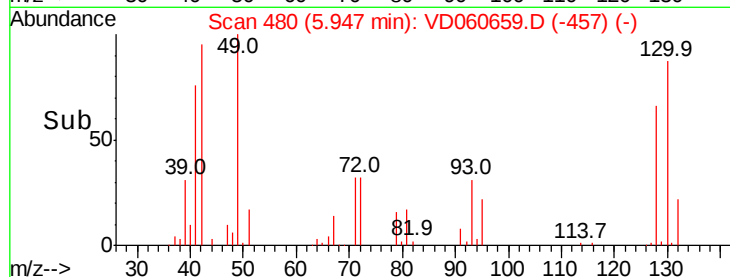


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 47.524 ug/l

RT: 6.90 min Scan# 577

Delta R.T. 0.00 min

Lab File: VD060659.D

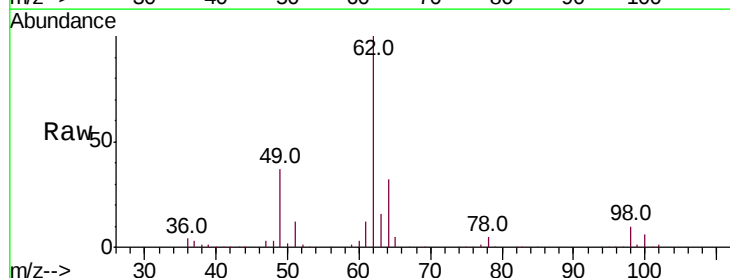
Acq: 20 Dec 2018 15:18

Tgt Ion: 62 Resp: 737195

Ion Ratio Lower Upper

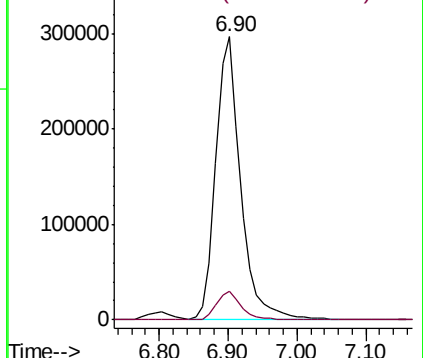
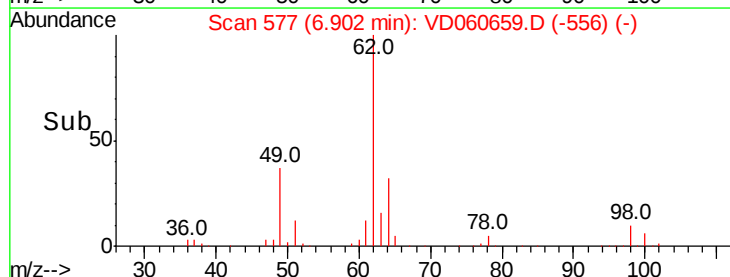
62 100

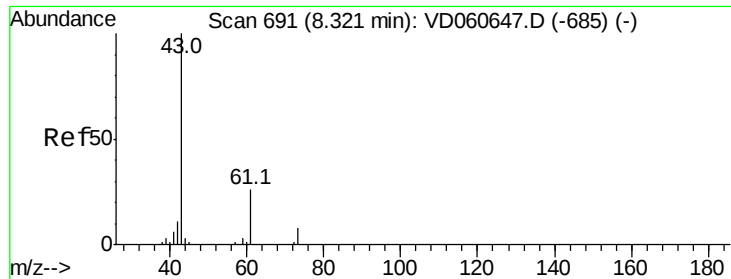
98 10.1 0.0 20.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 47.994 ug/l

RT: 8.35 min Scan# 724

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

ICVVD122018

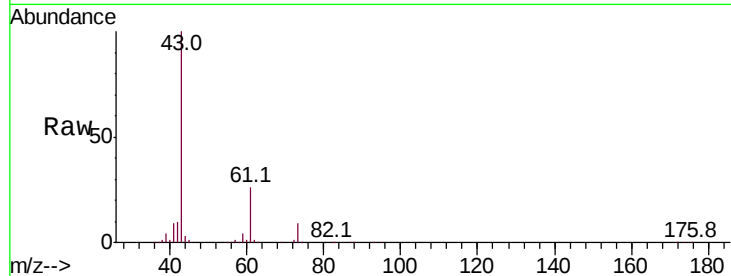
Tot Ion: 43 Resp: 623346

Ion Ratio Lower Upper

43 100

61 26.5 21.8 32.8

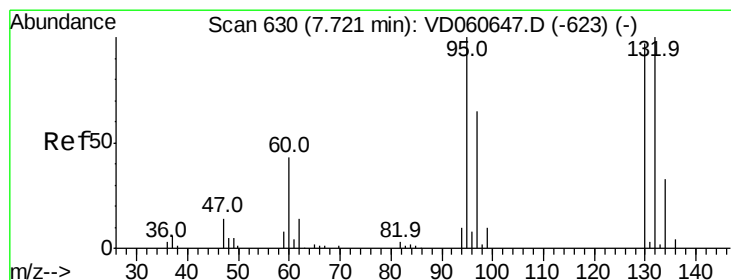
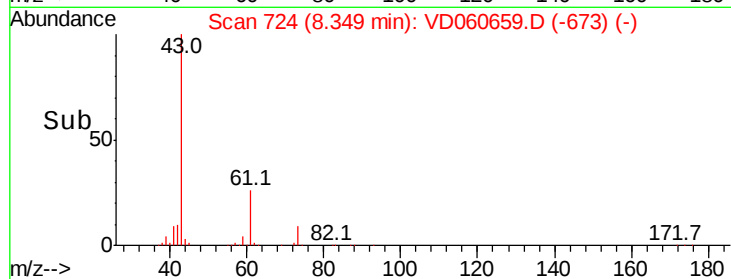
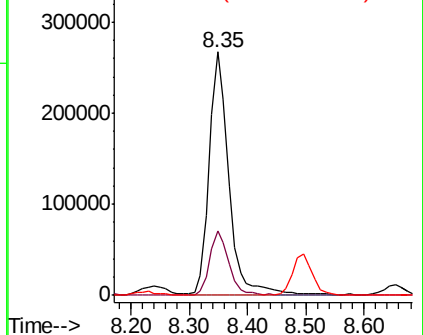
87 0.1 0.2 0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 50.117 ug/l

RT: 7.75 min Scan# 663

Delta R.T. 0.00 min

Lab File: VD060659.D

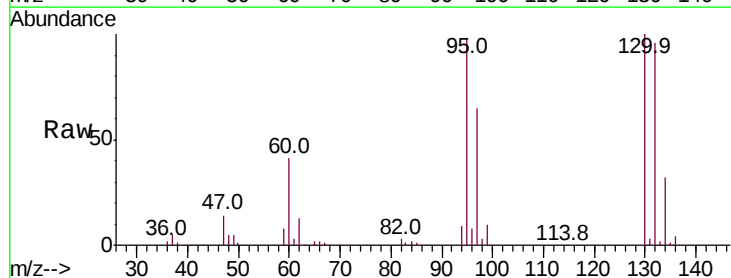
Acq: 20 Dec 2018 15:18

Tgt Ion:130 Resp: 927230

Ion Ratio Lower Upper

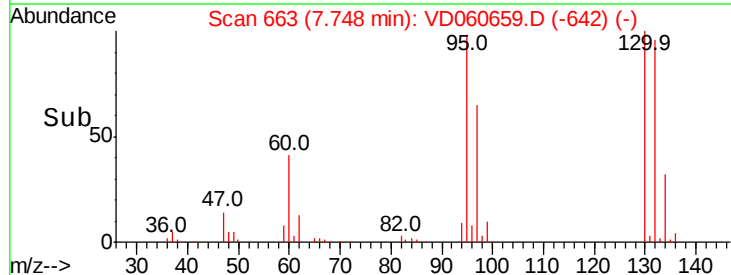
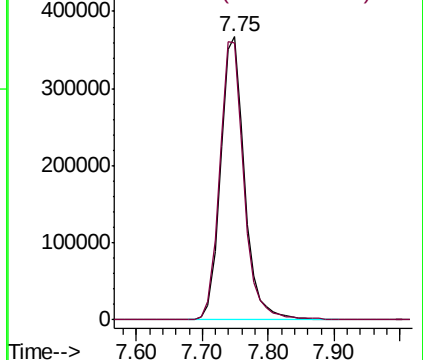
130 100

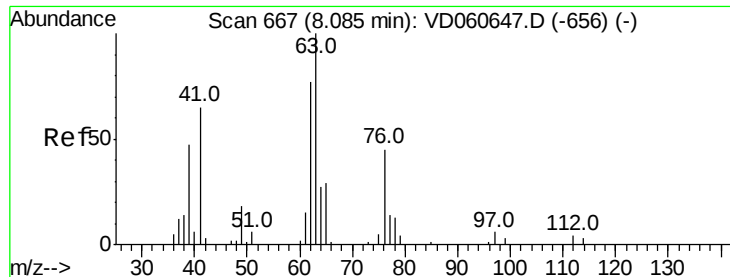
95 97.9 0.0 193.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 47.066 ug/l

RT: 8.10 min Scan# 699

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

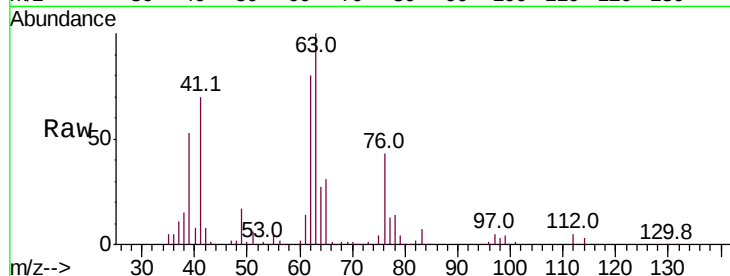
ICVVD122018

Tot Ion: 63 Resp: 721513

Ion Ratio Lower Upper

63 100

65 31.4 25.0 37.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.10

300000

250000

200000

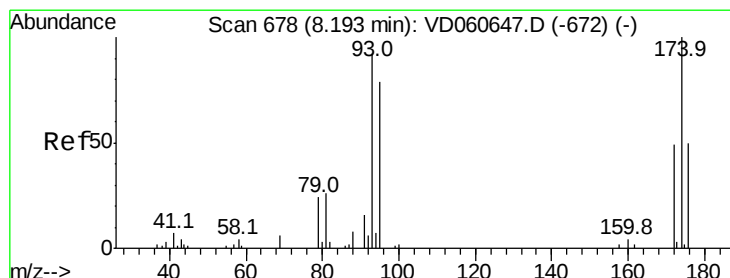
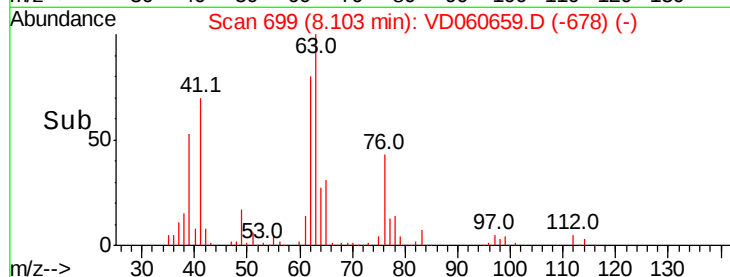
150000

100000

50000

0

Time--> 7.90 8.00 8.10 8.20 8.30



#46

Dibromomethane

Concen: 48.301 ug/l

RT: 8.22 min Scan# 711

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

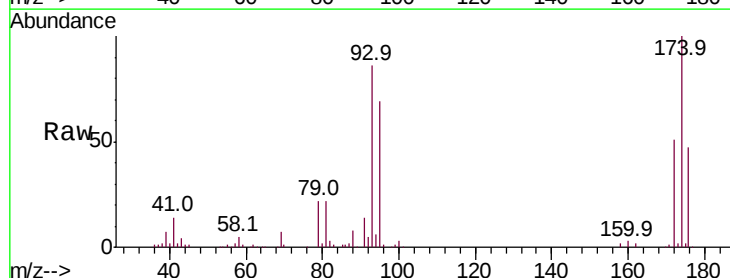
Tgt Ion: 93 Resp: 422594

Ion Ratio Lower Upper

93 100

95 81.0 68.8 103.2

174 116.7 93.0 139.4



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

8.22

250000

200000

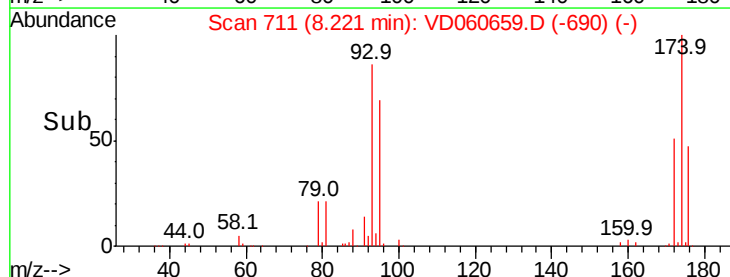
150000

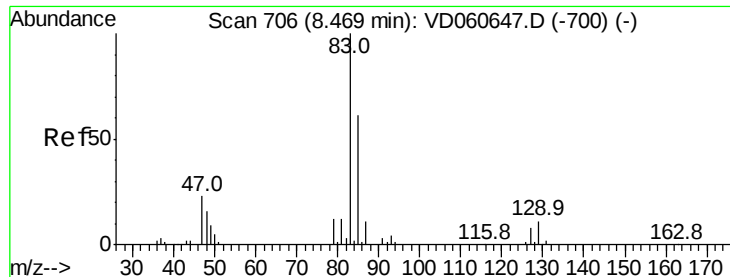
100000

50000

0

Time--> 8.10 8.20 8.30 8.40





#47

Bromodichloromethane

Concen: 49.121 ug/l

RT: 8.50 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

ICVVD122018

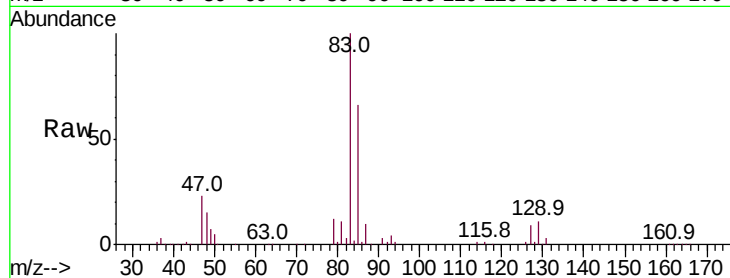
Tot Ion: 83 Resp: 1017897

Ion Ratio Lower Upper

83 100

85 66.4 51.1 76.7

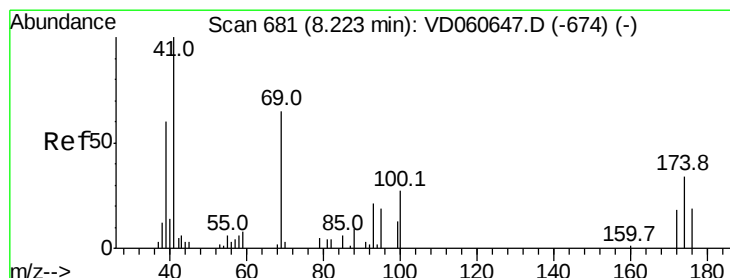
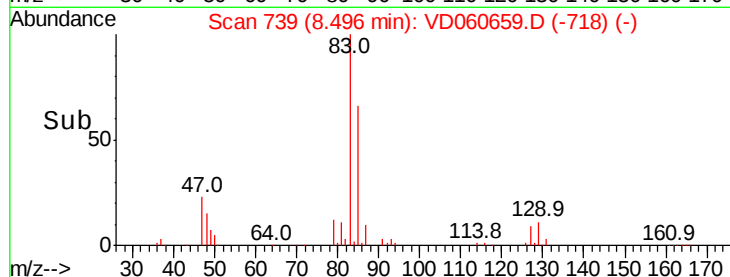
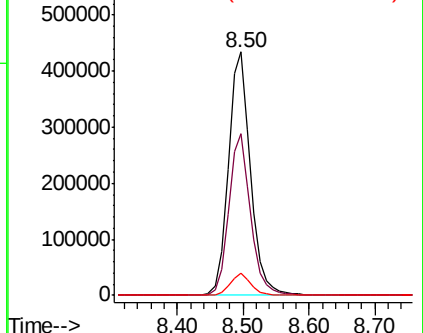
127 8.9 7.0 10.6



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: 49.997 ug/l

RT: 8.25 min Scan# 714

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

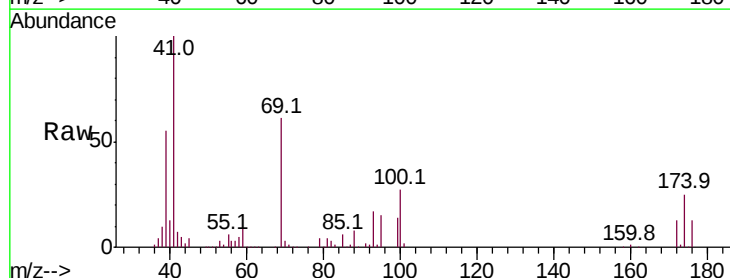
Tgt Ion: 41 Resp: 394400

Ion Ratio Lower Upper

41 100

69 61.3 51.2 76.8

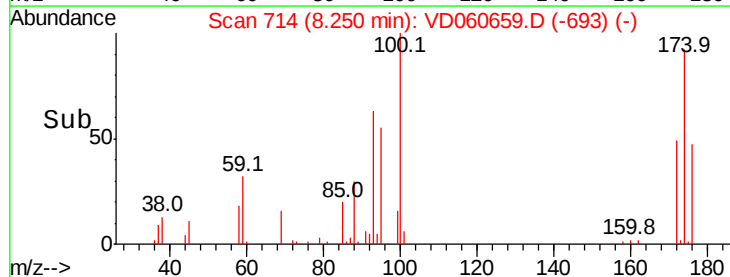
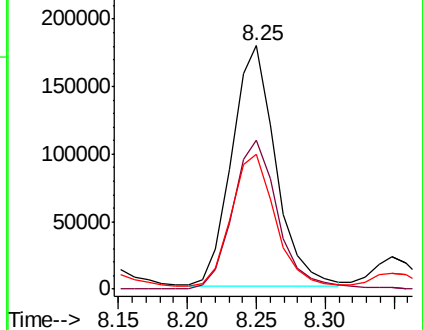
39 55.3 44.6 67.0

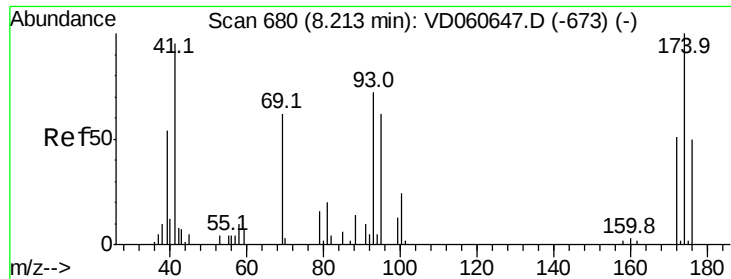


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC

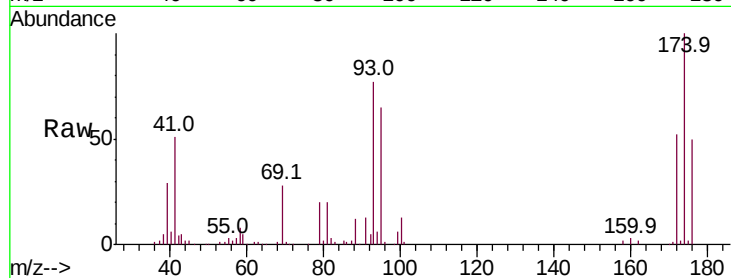




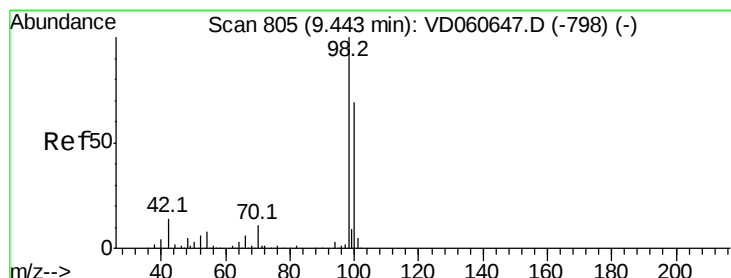
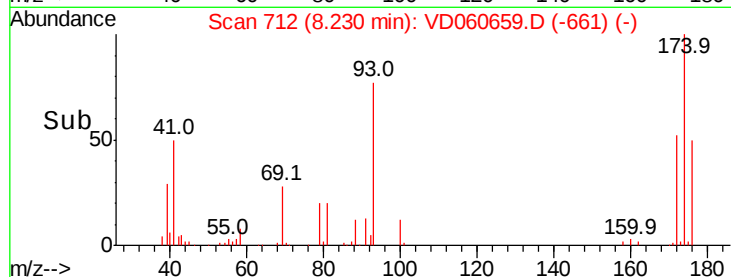
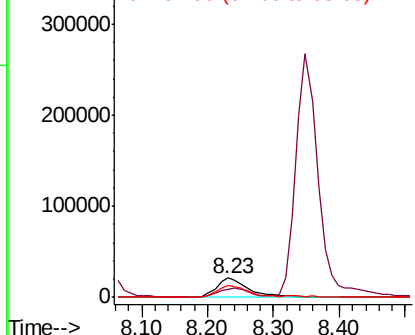
#49
1,4-Dioxane
Concen: 995.478 ug/l
RT: 8.23 min Scan# 712
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Instrument :
MSVOA_D
ClientSampleId :
ICVVD122018

Tot Ion: 88 Resp: 73014
Ion Ratio Lower Upper
88 100
43 42.5 31.5 47.3
58 65.3 50.6 76.0

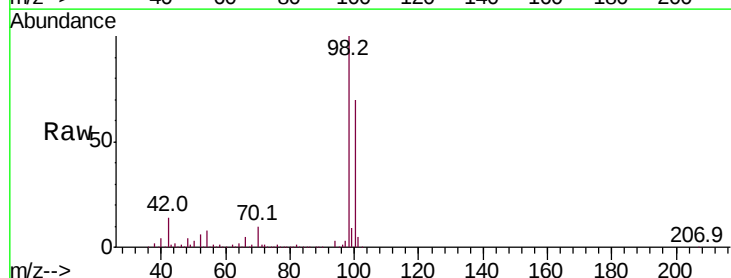


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

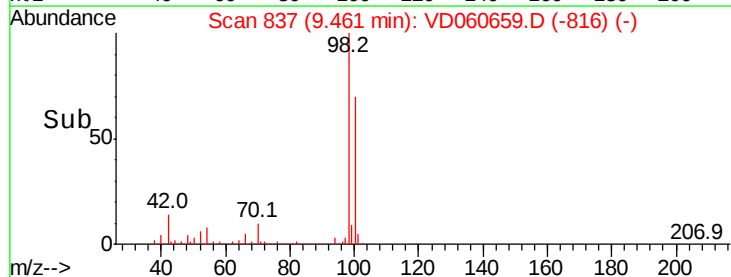
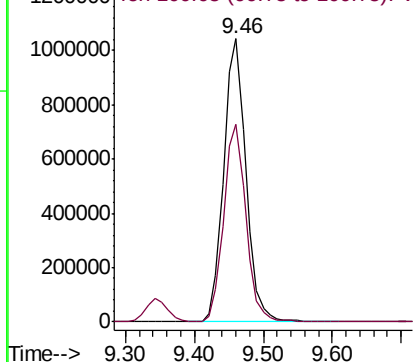


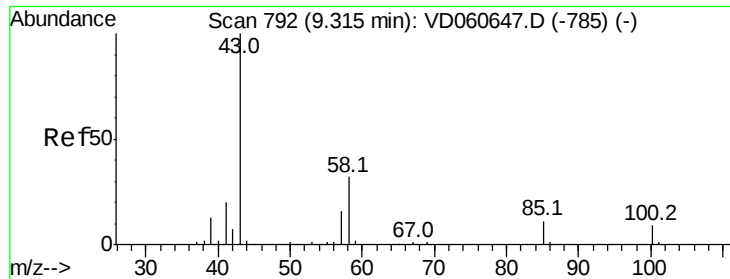
#50
Toluene-d8
Concen: 995.478 ug/l
RT: 9.46 min Scan# 837
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 98 Resp: 2333531
Ion Ratio Lower Upper
98 100
100 69.9 55.8 83.8



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





#51

4-Methyl-2-Pentanone

Concen: 237.685 ug/l

RT: 9.34 min Scan# 825

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

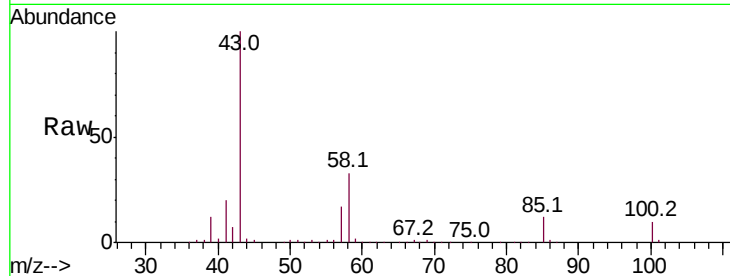
ICVVD122018

Tot Ion: 43 Resp: 1891338

Ion Ratio Lower Upper

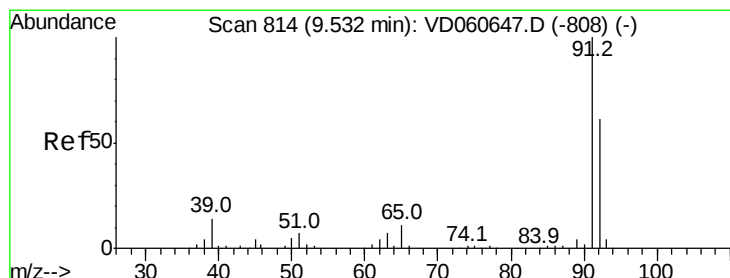
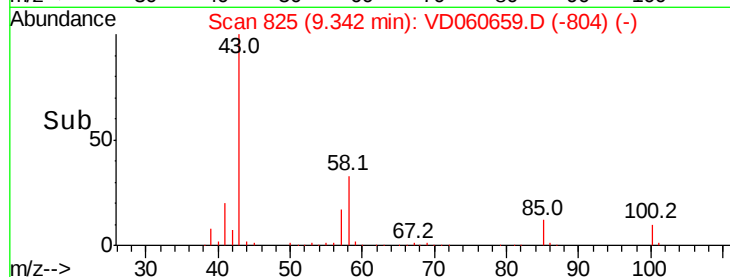
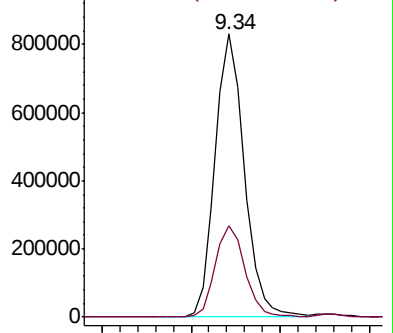
43 100

58 32.5 26.3 39.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 48.117 ug/l

RT: 9.55 min Scan# 846

Delta R.T. 0.00 min

Lab File: VD060659.D

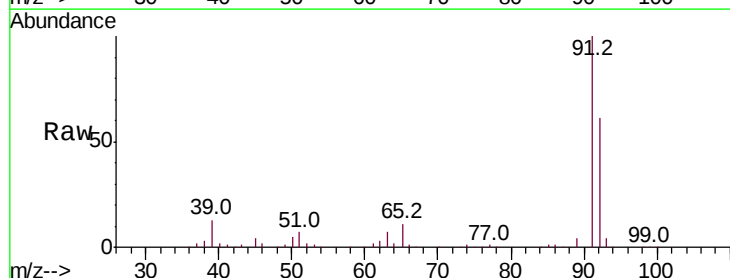
Acq: 20 Dec 2018 15:18

Tgt Ion: 92 Resp: 1885539

Ion Ratio Lower Upper

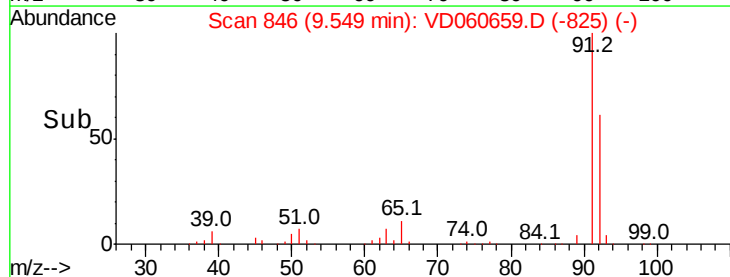
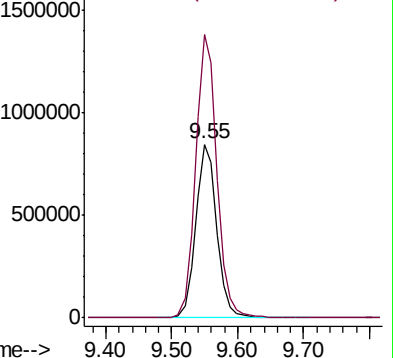
92 100

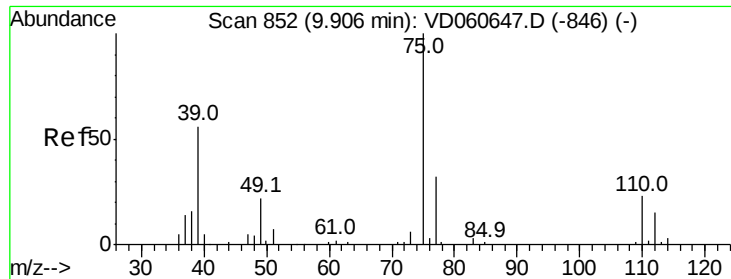
91 162.8 132.6 199.0



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: 48.489 ug/l

RT: 9.92 min Scan# 884

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

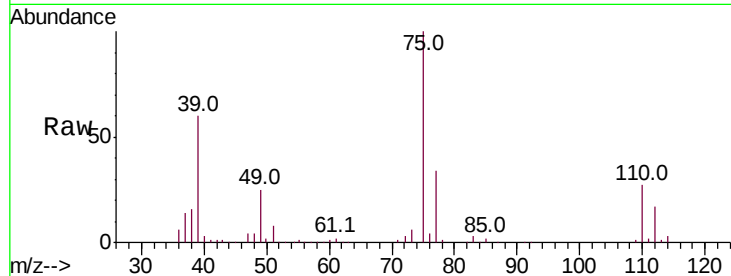
ICVVD122018

Tot Ion: 75 Resp: 838290

Ion Ratio Lower Upper

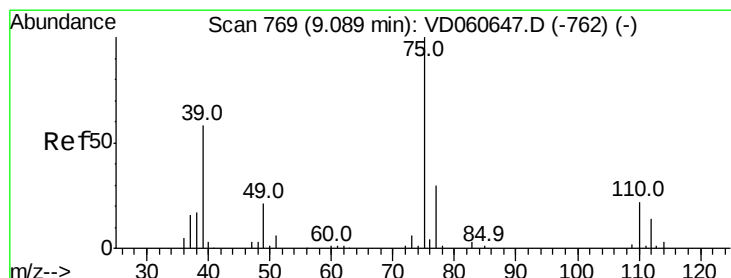
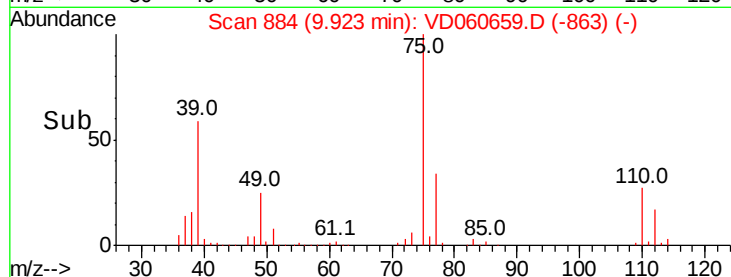
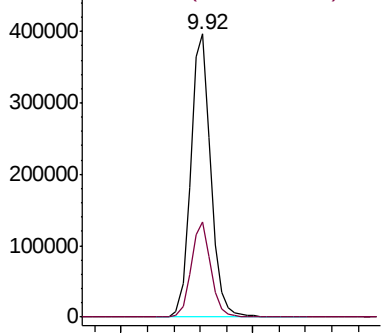
75 100

77 33.6 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 47.194 ug/l

RT: 9.11 min Scan# 801

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

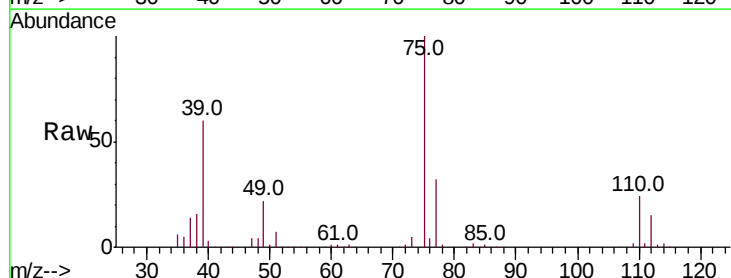
Tgt Ion: 75 Resp: 1067927

Ion Ratio Lower Upper

75 100

77 32.4 25.4 38.2

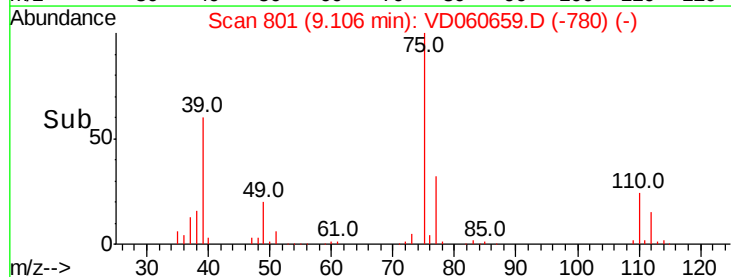
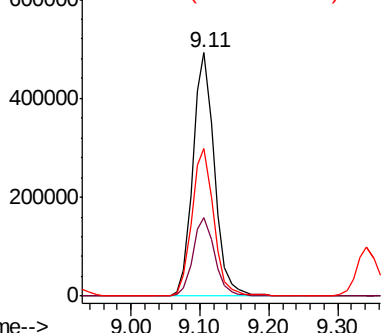
39 60.4 47.0 70.4

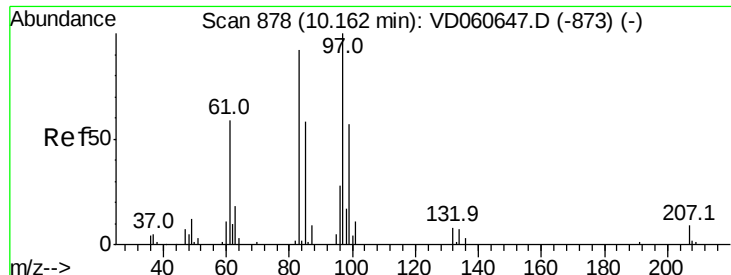


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

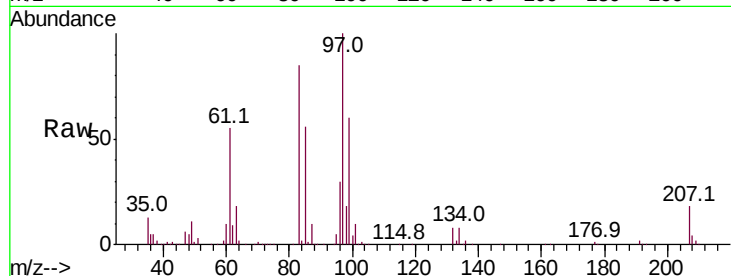




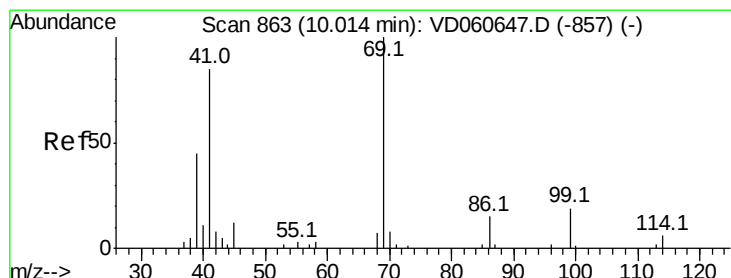
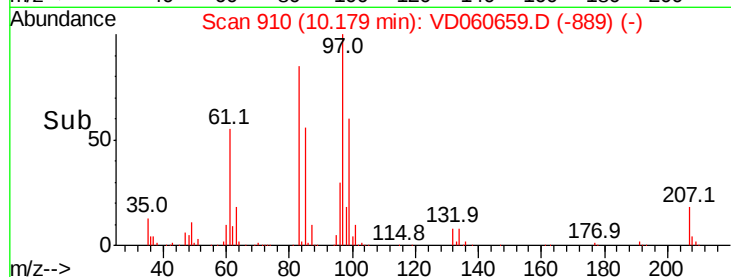
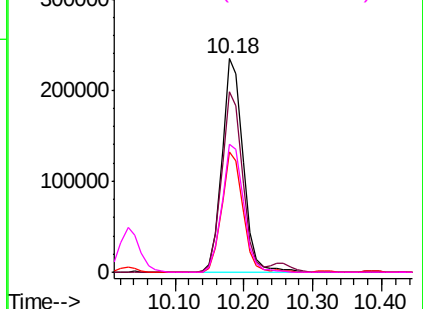
#55
1,1,2-Trichloroethane
Concen: 47.126 ug/l
RT: 10.18 min Scan# 910
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Instrument :
MSVOA_D
ClientSampleId :
ICVVD122018

Tot Ion: 97 Resp: 496869
Ion Ratio Lower Upper
97 100
83 84.7 70.0 105.0
85 56.5 46.6 70.0
99 59.9 49.6 74.4

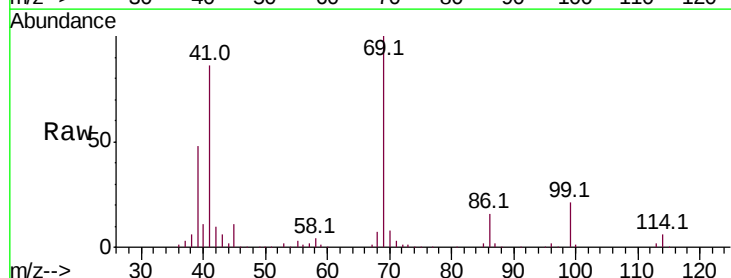


Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 98.85 (98.55 to 99.55): VDC

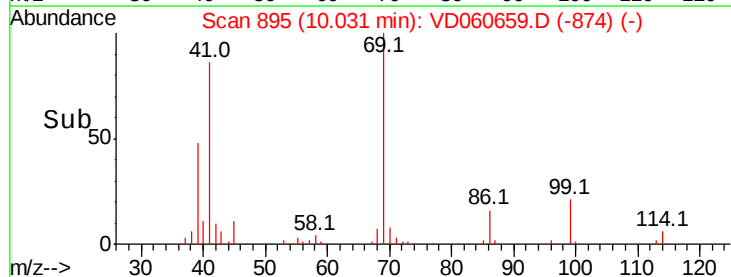
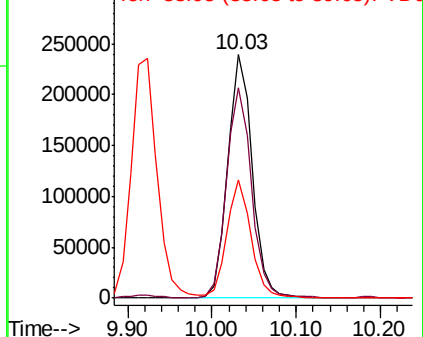


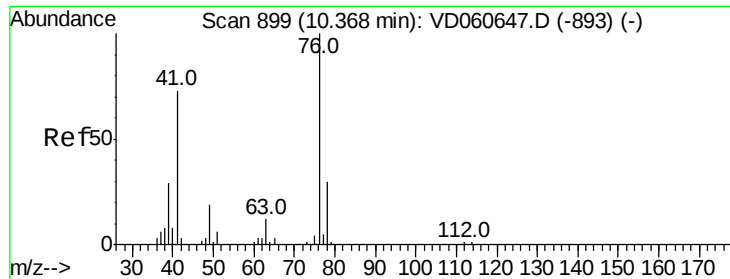
#56
Ethyl methacrylate
Concen: 49.524 ug/l
RT: 10.03 min Scan# 895
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 69 Resp: 484988
Ion Ratio Lower Upper
69 100
41 86.4 68.3 102.5
39 48.3 37.2 55.8



Abundance Ion 69.00 (68.70 to 69.70): VDC
Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 48.152 ug/l

RT: 10.39 min Scan# 931

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

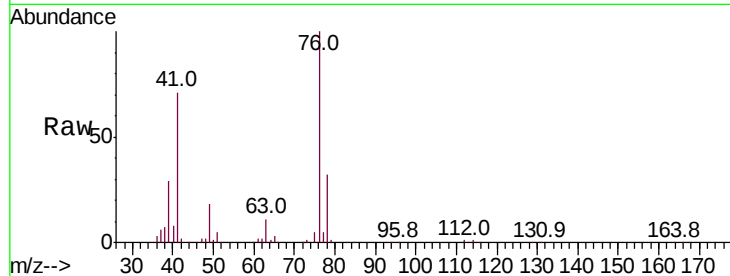
ICVVD122018

Tot Ion: 76 Resp: 804714

Ion Ratio Lower Upper

76 100

78 31.8 26.1 39.1



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

10.39

400000

300000

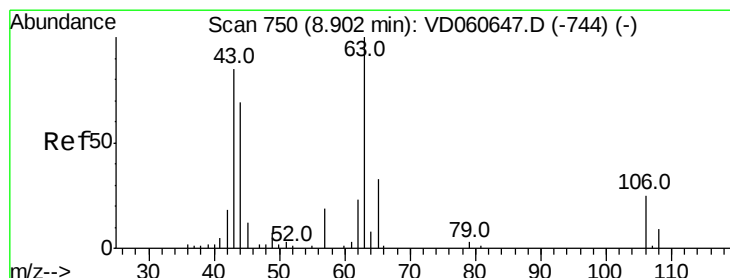
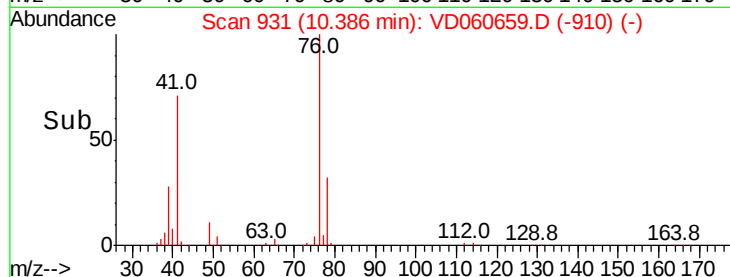
200000

100000

0

10.30 10.40 10.50

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 228.590 ug/l

RT: 8.93 min Scan# 783

Delta R.T. 0.00 min

Lab File: VD060659.D

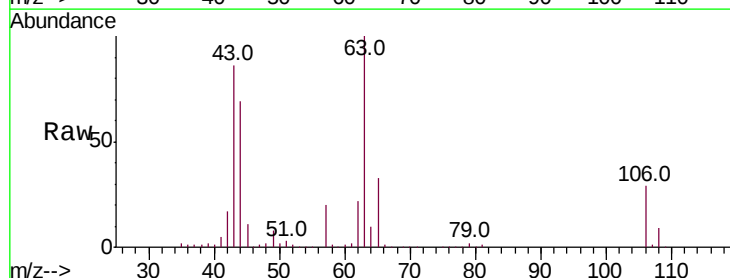
Acq: 20 Dec 2018 15:18

Tgt Ion: 63 Resp: 1319035

Ion Ratio Lower Upper

63 100

106 28.6 22.4 33.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

8.93

600000

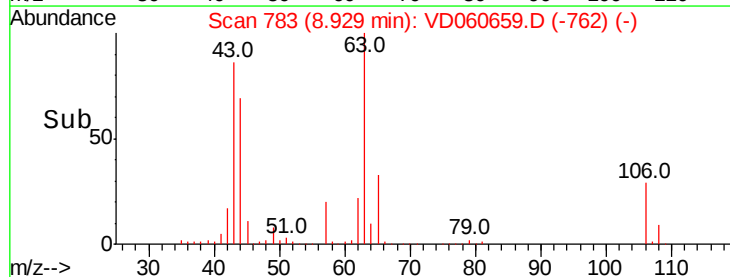
400000

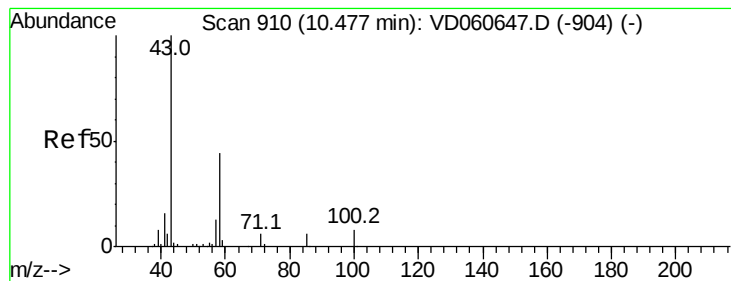
200000

0

8.80 8.90 9.00 9.10

Time-->





#59

2-Hexanone

Concen: 251.544 ug/l

RT: 10.48 min Scan# 941

Delta R.T. -0.01 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

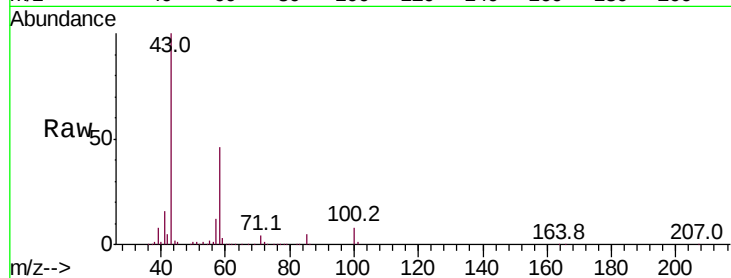
ICVVD122018

Tot Ion: 43 Resp: 1401064

Ion Ratio Lower Upper

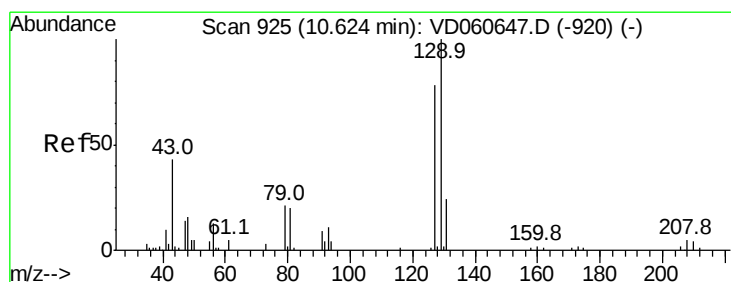
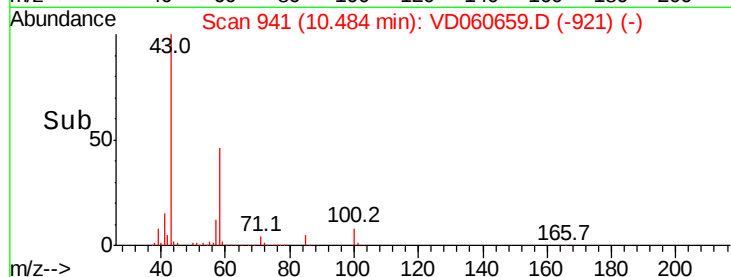
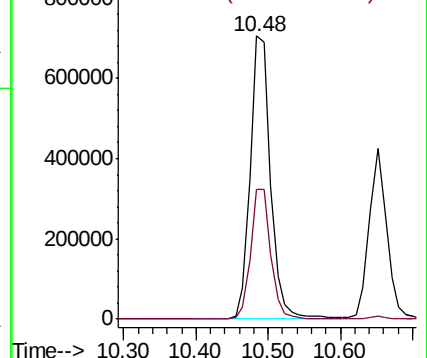
43 100

58 45.7 23.5 70.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#60

Dibromochloromethane

Concen: 50.032 ug/l

RT: 10.64 min Scan# 957

Delta R.T. 0.00 min

Lab File: VD060659.D

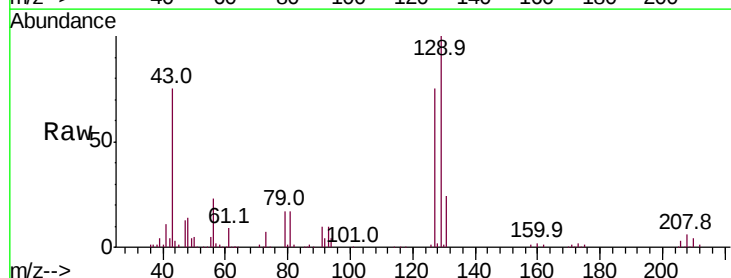
Acq: 20 Dec 2018 15:18

Tgt Ion:129 Resp: 671917

Ion Ratio Lower Upper

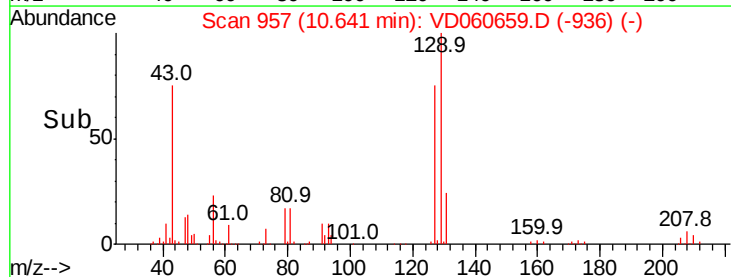
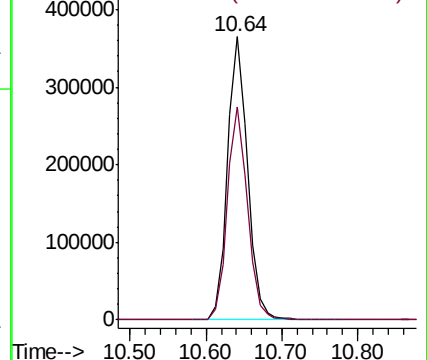
129 100

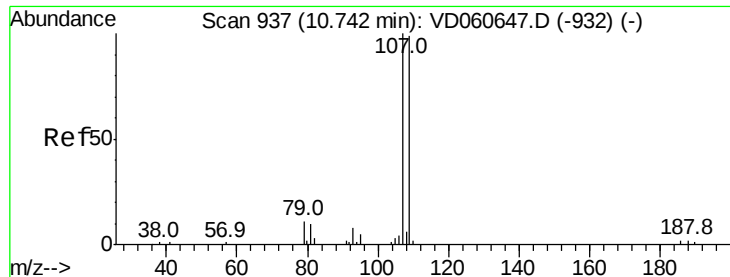
127 75.4 37.6 112.9



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#61

1,2-Dibromoethane

Concen: 49.545 ug/l

RT: 10.76 min Scan# 969

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

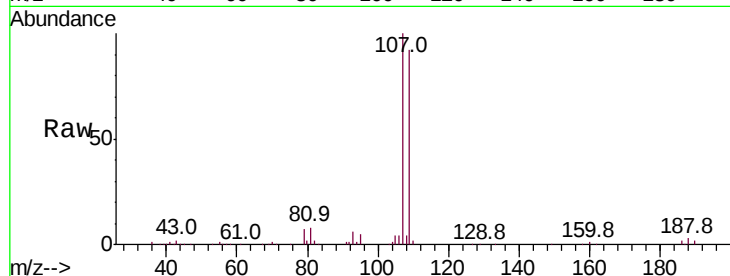
ICVVD122018

Tot Ion:107 Resp: 541828

Ion Ratio Lower Upper

107 100

109 92.3 78.0 117.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

10.76

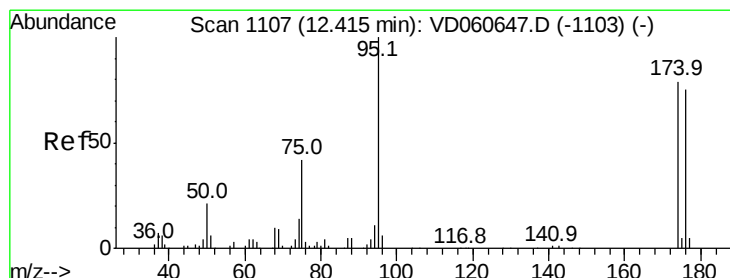
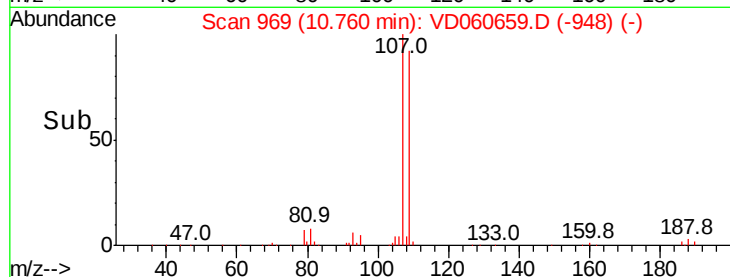
300000

200000

100000

0

Time--> 10.60 10.70 10.80 10.90



#62

4-Bromofluorobenzene

Concen: 49.545 ug/l

RT: 12.42 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

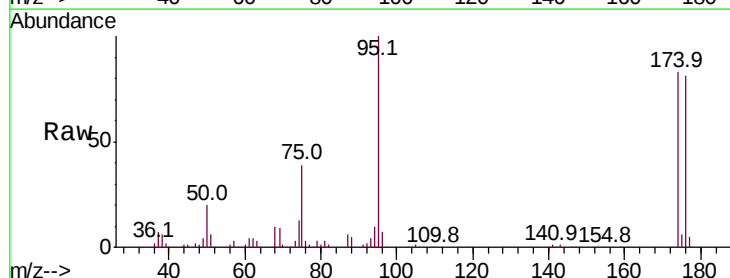
Tgt Ion: 95 Resp: 813113

Ion Ratio Lower Upper

95 100

174 82.6 0.0 158.2

176 81.2 0.0 152.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

12.42

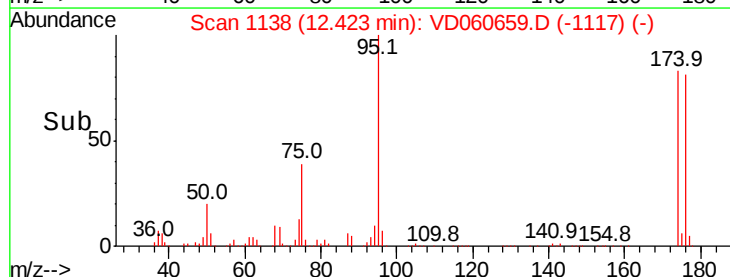
600000

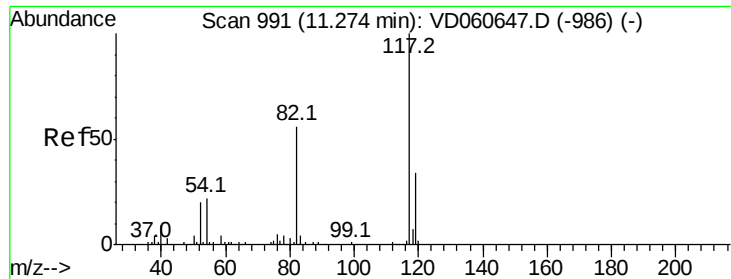
400000

200000

0

Time--> 12.40 12.50





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.28 min Scan# 1022

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

ICVVD122018

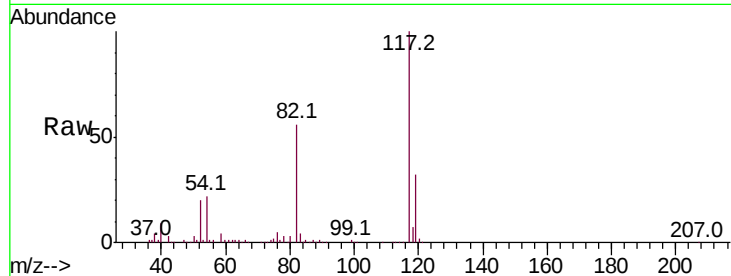
Tot Ion:117 Resp: 1879087

Ion Ratio Lower Upper

117 100

82 55.5 44.5 66.7

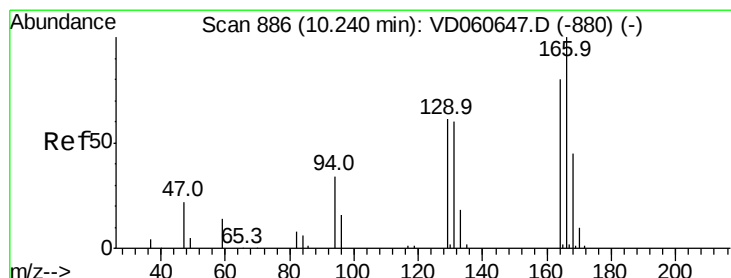
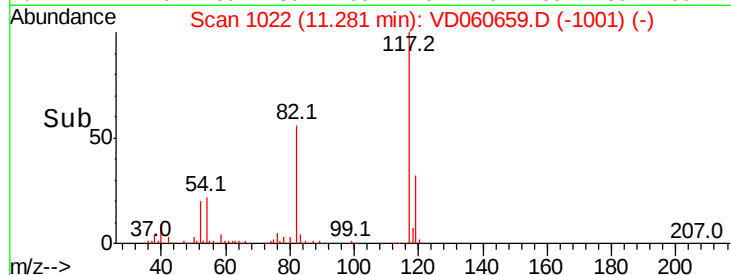
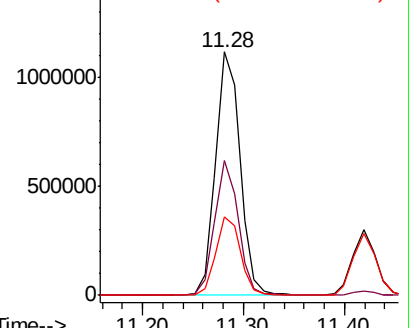
119 32.2 26.3 39.5



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64

Tetrachloroethene

Concen: 48.698 ug/l

RT: 10.26 min Scan# 918

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Tgt Ion:164 Resp: 829391

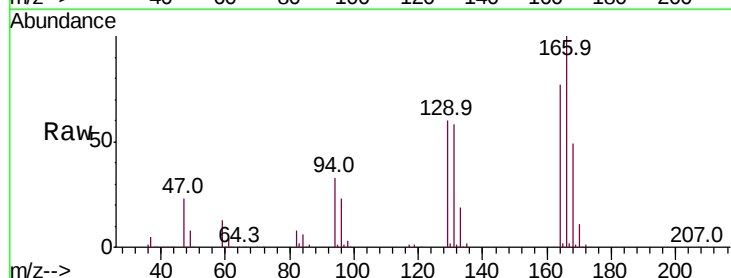
Ion Ratio Lower Upper

164 100

166 130.2 104.4 156.6

129 78.6 62.7 94.1

131 76.1 61.1 91.7

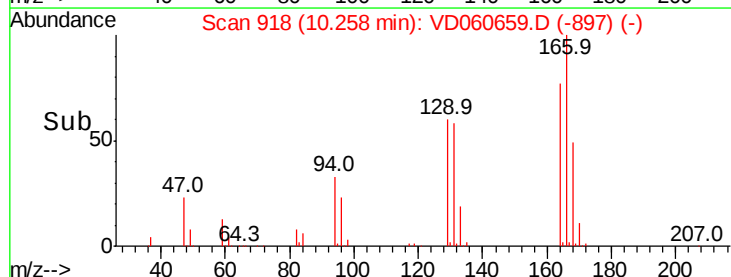
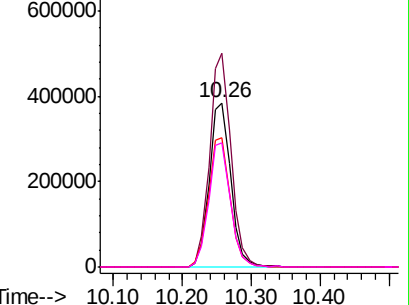


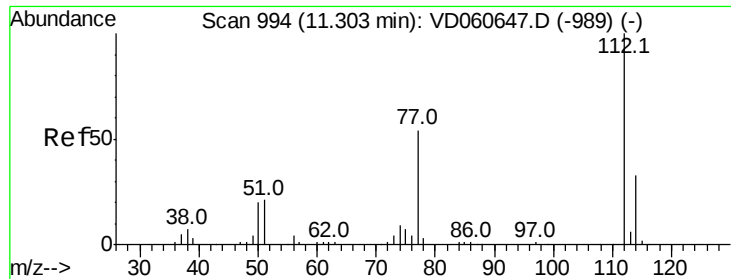
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

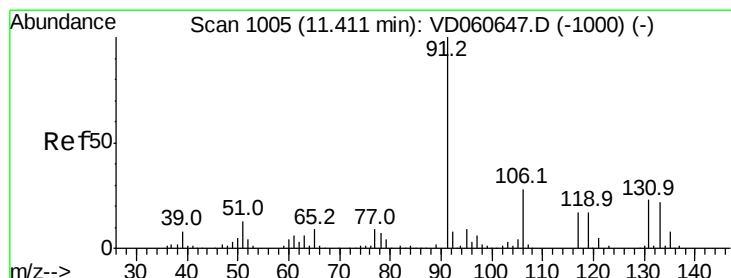
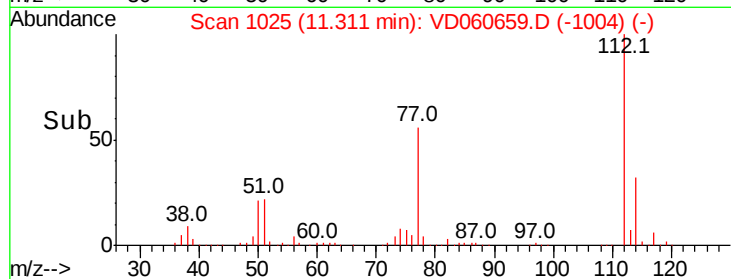
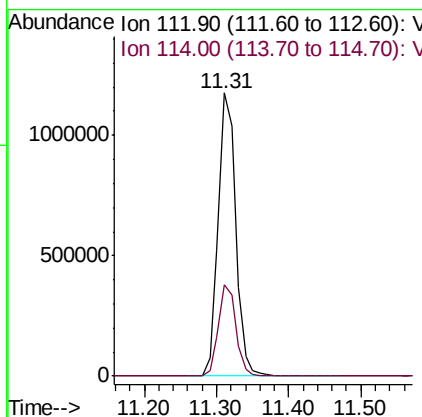
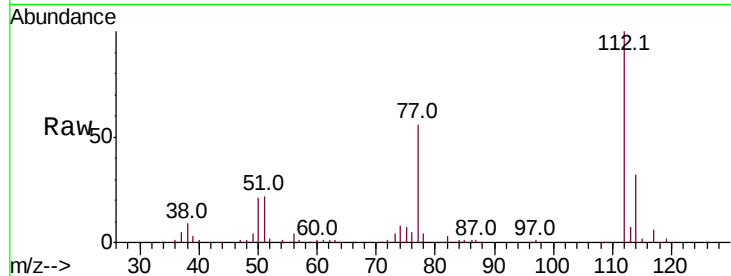




#65
Chlorobenzene
Concen: 47.382 ug/l
RT: 11.31 min Scan# 1025
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

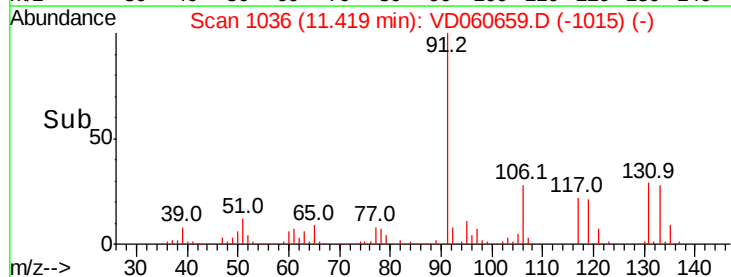
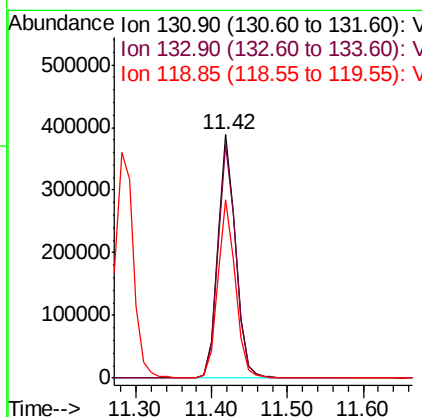
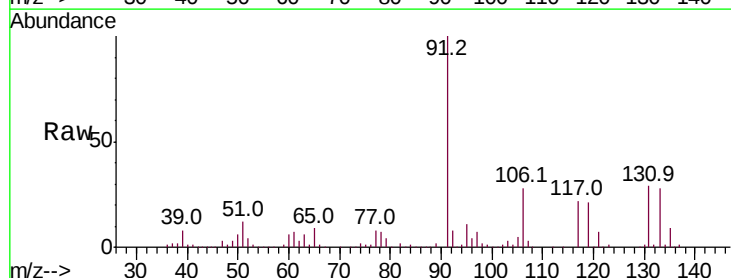
Instrument :
MSVOA_D
ClientSampleId :
ICVVD122018

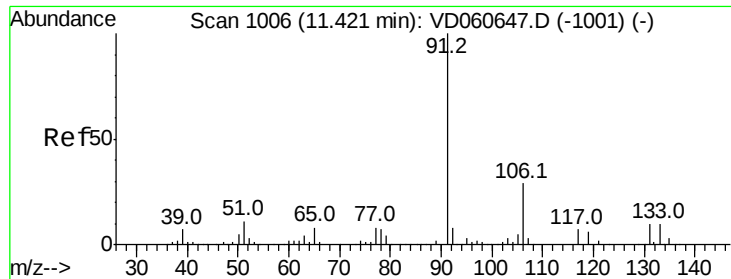
Tot Ion:112 Resp: 1967088
Ion Ratio Lower Upper
112 100
114 32.5 26.1 39.1



#66
1,1,1,2-Tetrachloroethane
Concen: 48.304 ug/l
RT: 11.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion:131 Resp: 644786
Ion Ratio Lower Upper
131 100
133 95.7 49.1 147.3
119 73.4 36.6 109.8

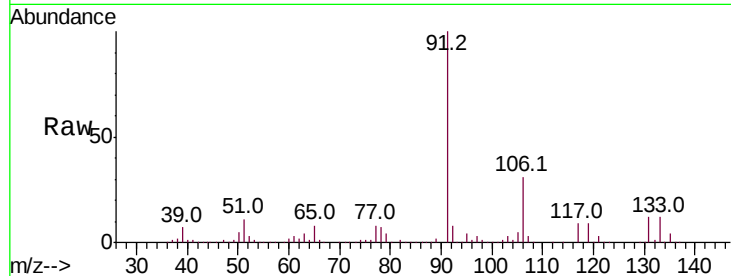




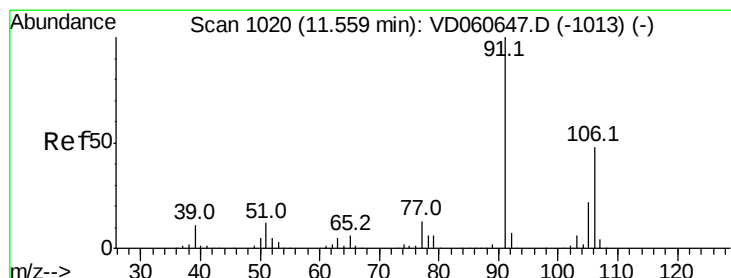
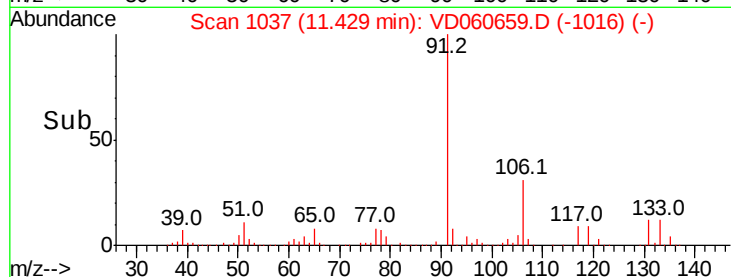
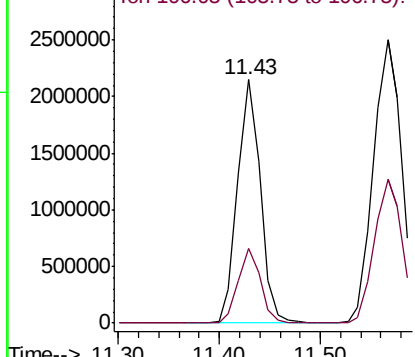
#67
Ethyl Benzene
Concen: 47.603 ug/l
RT: 11.43 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Instrument :
MSVOA_D
ClientSampleID :
ICVVD122018

Tot Ion: 91 Resp: 3384583
Ion Ratio Lower Upper
91 100
106 30.9 24.6 36.8

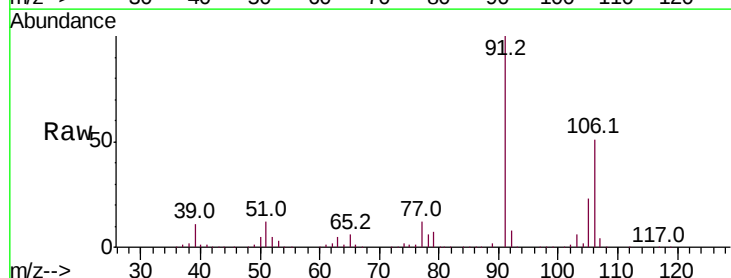


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V

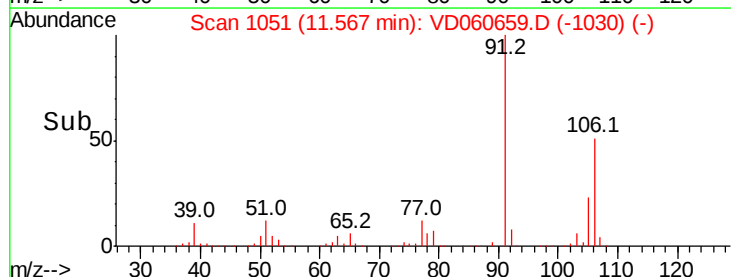
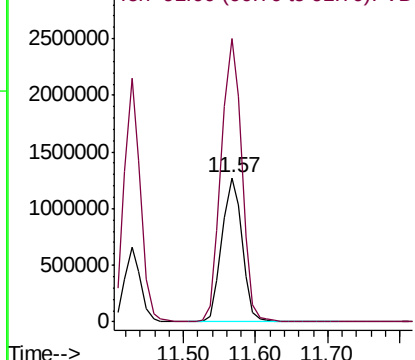


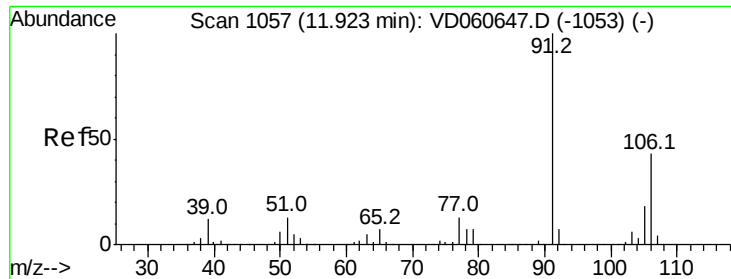
#68
m/p-Xylenes
Concen: 95.183 ug/l
RT: 11.57 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 106 Resp: 2473203
Ion Ratio Lower Upper
106 100
91 196.5 158.9 238.3



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

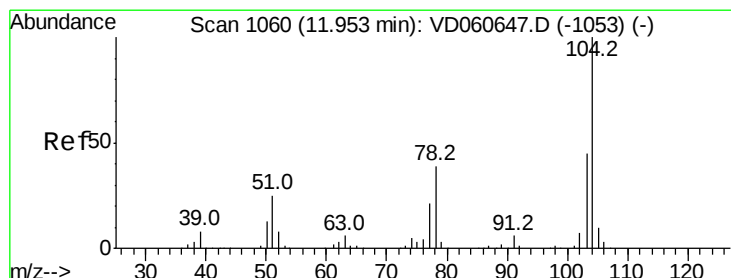
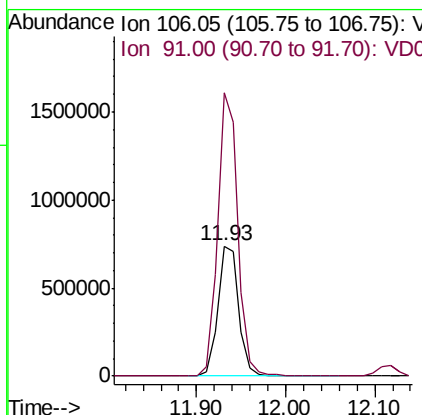
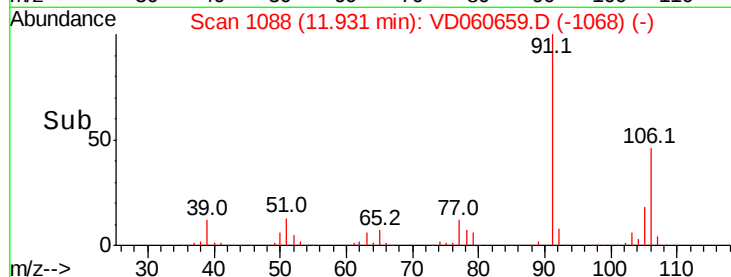
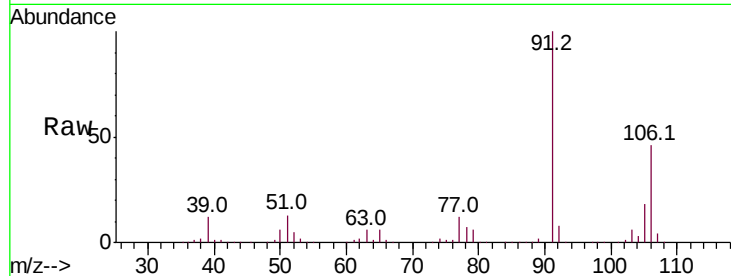




#69
o-Xylene
Concen: 48.838 ug/l
RT: 11.93 min Scan# 1088
Delta R.T. -0.01 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

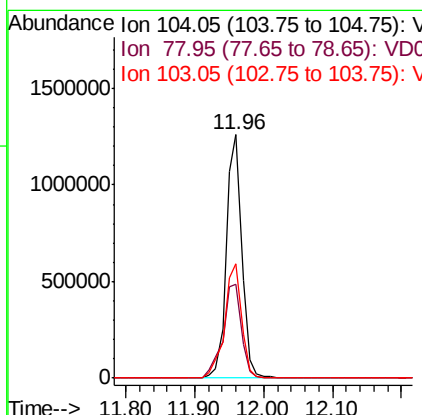
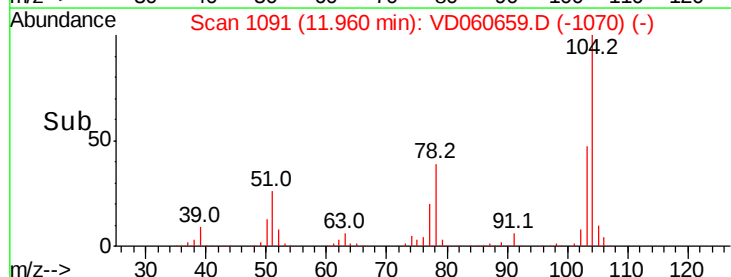
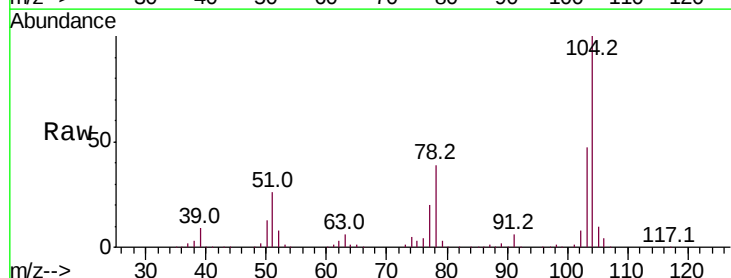
Instrument :
MSVOA_D
ClientSampleId :
ICVVD122018

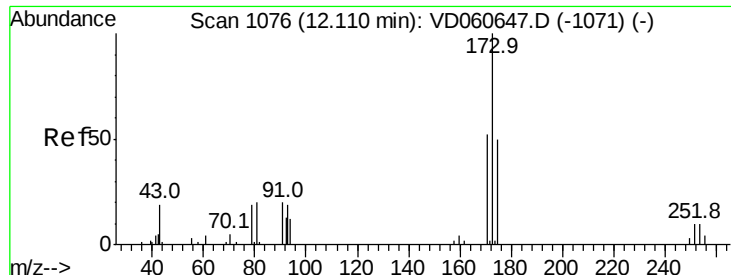
Tot Ion:106 Resp: 1203926
Ion Ratio Lower Upper
106 100
91 217.9 101.5 304.5



#70
Styrene
Concen: 49.028 ug/l
RT: 11.96 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion:104 Resp: 1946561
Ion Ratio Lower Upper
104 100
78 38.6 31.4 47.2
103 47.2 37.5 56.3





#71

Bromoform

Concen: 49.830 ug/l

RT: 12.12 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

ICVVD122018

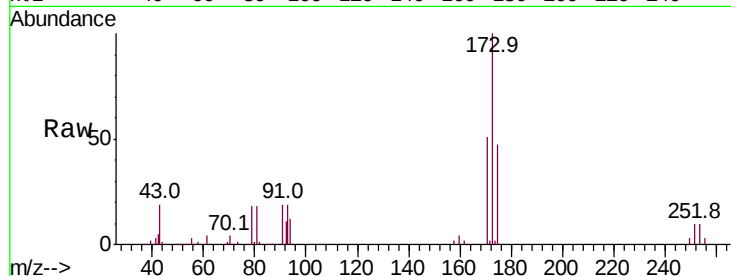
Tot Ion:173 Resp: 439068

Ion Ratio Lower Upper

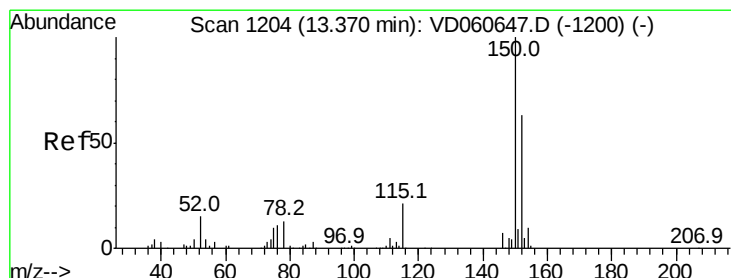
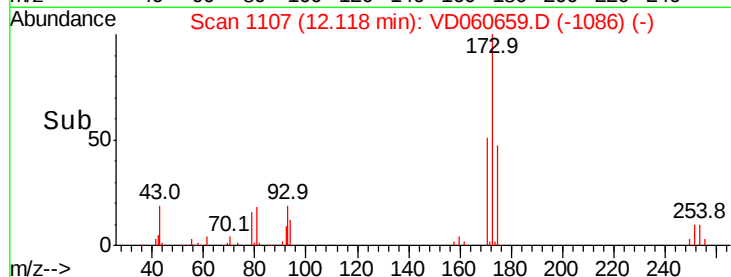
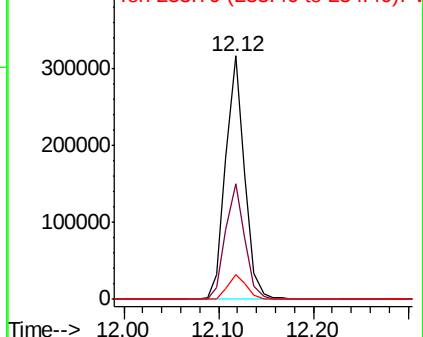
173 100

175 47.3 25.5 76.5

254 9.9 7.9 11.9



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.38 min Scan# 1235

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

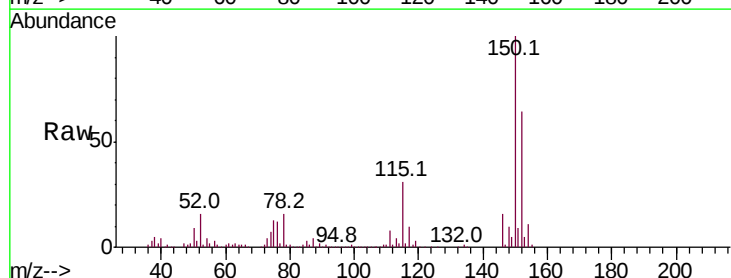
Tgt Ion:152 Resp: 961496

Ion Ratio Lower Upper

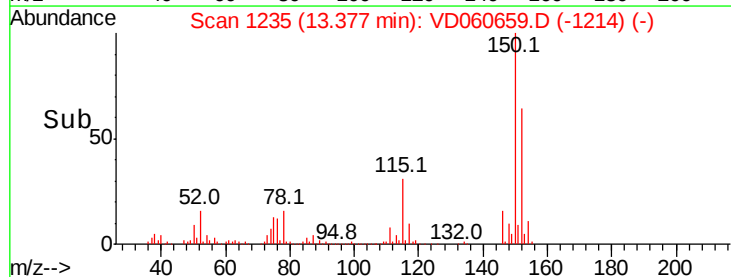
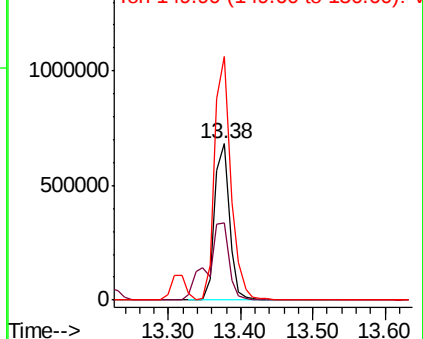
152 100

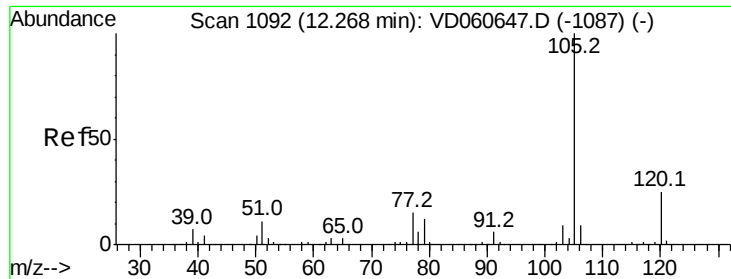
115 49.1 24.1 72.3

150 156.1 0.0 315.0



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





#73

Isopropylbenzene

Concen: 48.594 ug/l

RT: 12.28 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

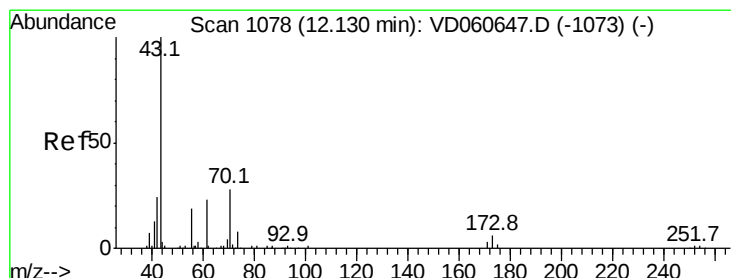
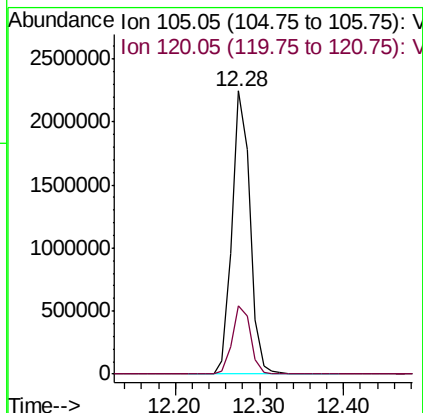
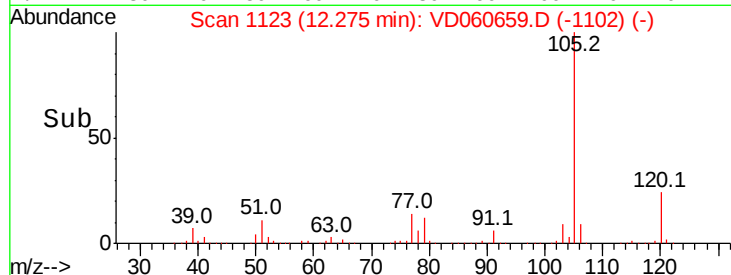
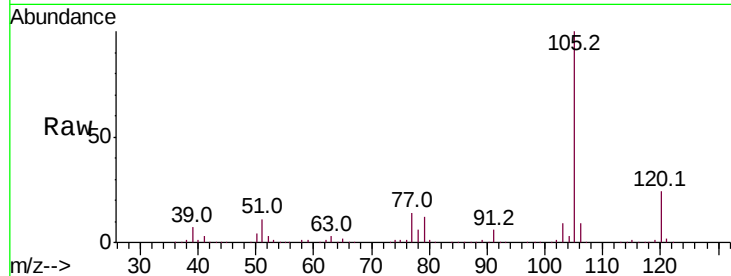
ICVVD122018

Tot Ion:105 Resp: 3326607

Ion Ratio Lower Upper

105 100

120 24.1 12.2 36.4



#74

N-ethyl acetate

Concen: 49.137 ug/l

RT: 12.14 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Tgt Ion: 43 Resp: 793895

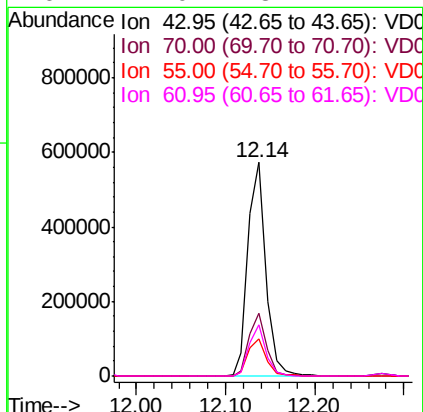
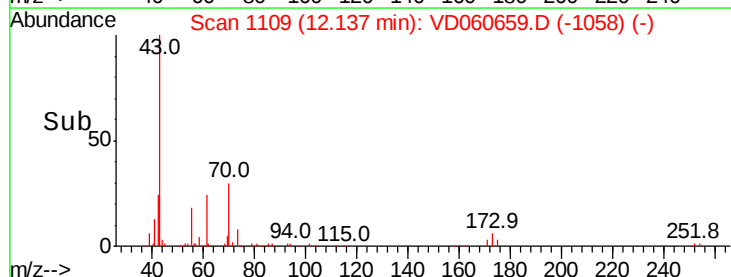
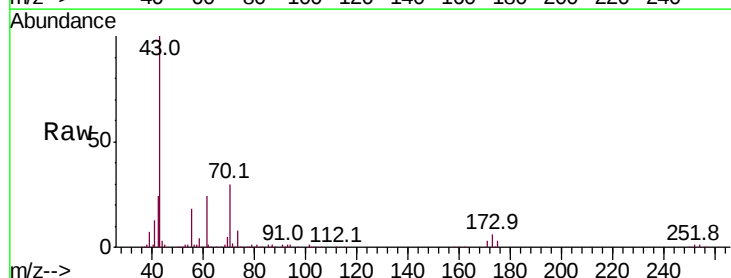
Ion Ratio Lower Upper

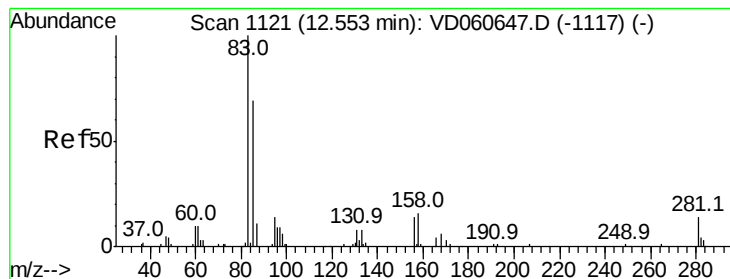
43 100

70 29.6 22.2 33.2

55 17.6 13.8 20.8

61 24.0 18.2 27.2





#75

1,1,2,2-Tetrachloroethane

Concen: 48.746 ug/l

RT: 12.56 min Scan# 1152

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

ICVVD122018

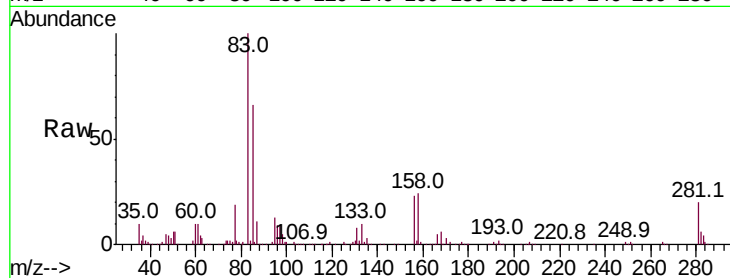
Tot Ion: 83 Resp: 540895

Ion Ratio Lower Upper

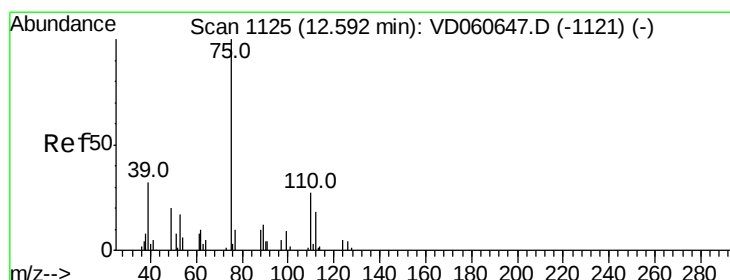
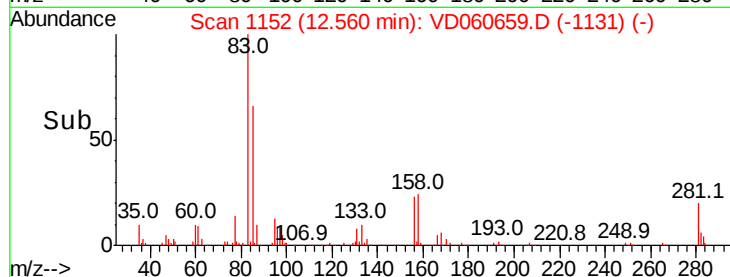
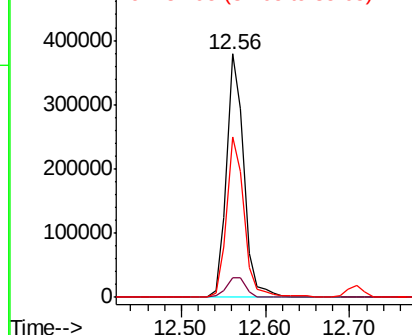
83 100

131 8.3 4.2 12.4

85 66.1 32.6 97.7



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: 48.220 ug/l

RT: 12.60 min Scan# 1156

Delta R.T. 0.00 min

Lab File: VD060659.D

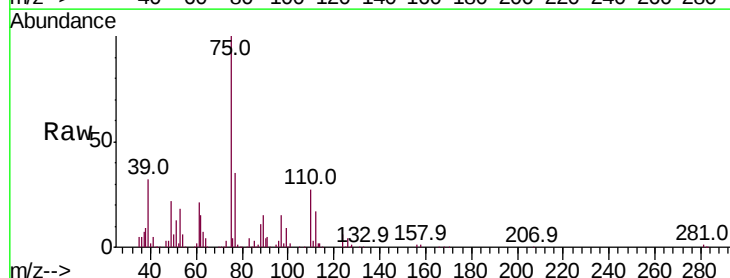
Acq: 20 Dec 2018 15:18

Tgt Ion: 75 Resp: 527836

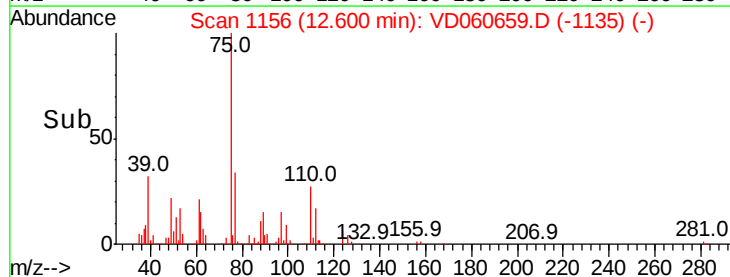
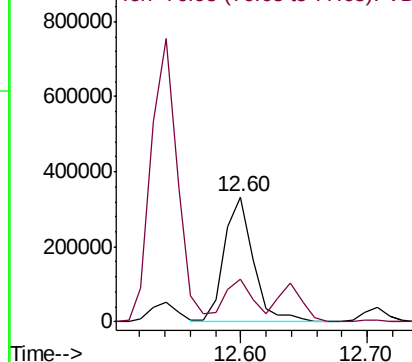
Ion Ratio Lower Upper

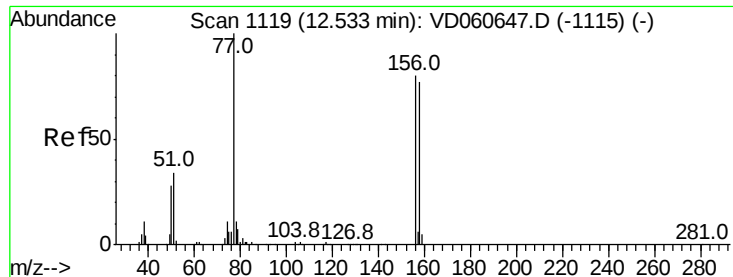
75 100

77 34.5 16.7 50.0



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 48.398 ug/l

RT: 12.54 min Scan# 1150

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

ICVVD122018

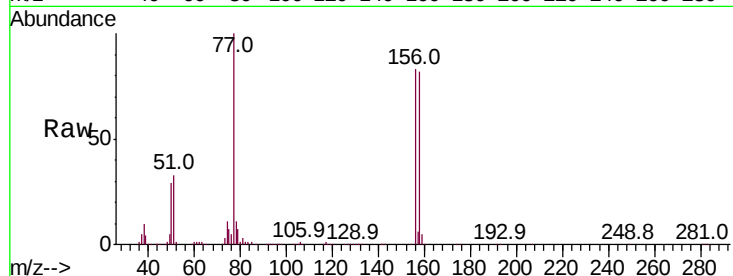
Tot Ion:156 Resp: 874729

Ion Ratio Lower Upper

156 100

77 120.3 61.3 183.9

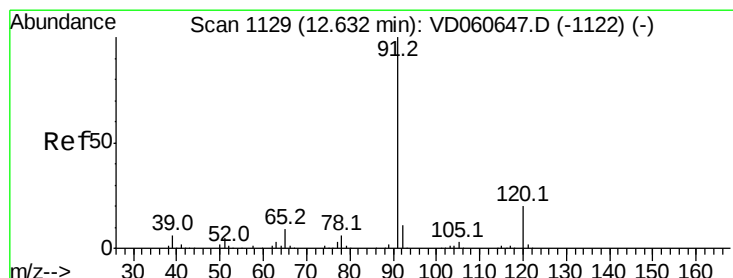
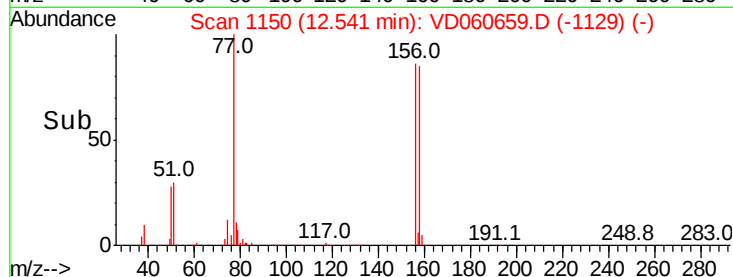
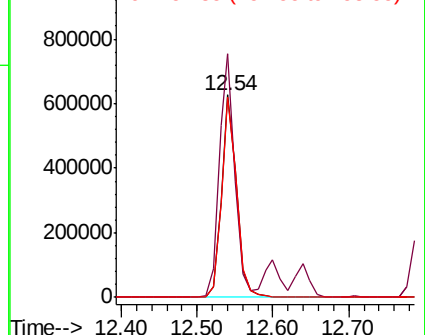
158 98.7 48.9 146.6



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: 46.695 ug/l

RT: 12.64 min Scan# 1160

Delta R.T. 0.00 min

Lab File: VD060659.D

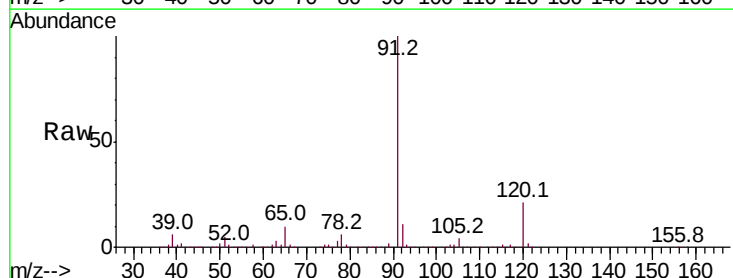
Acq: 20 Dec 2018 15:18

Tgt Ion: 91 Resp: 4086673

Ion Ratio Lower Upper

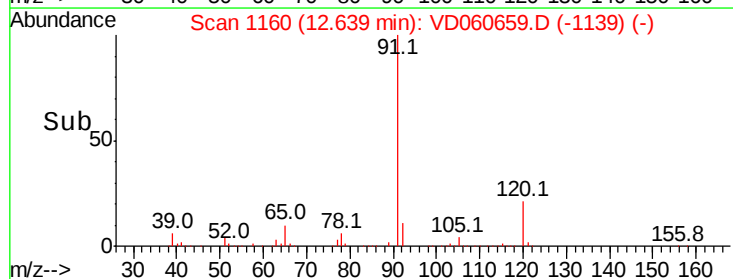
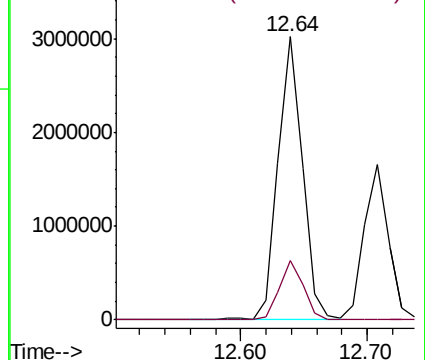
91 100

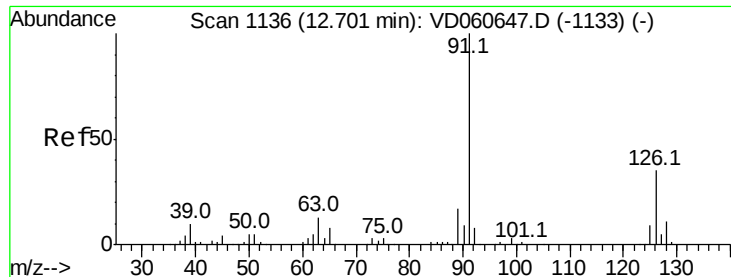
120 21.1 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

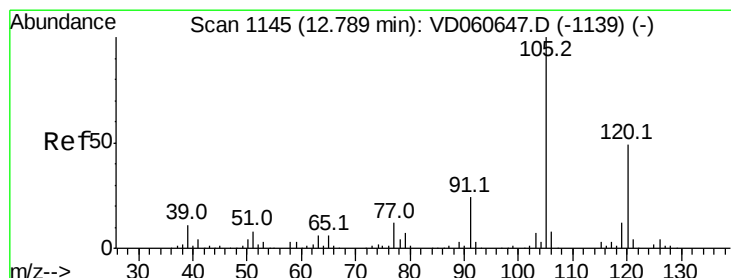
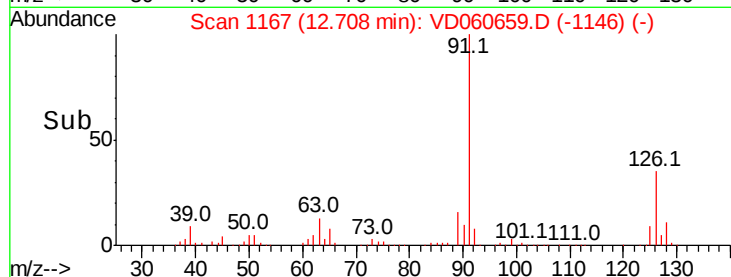
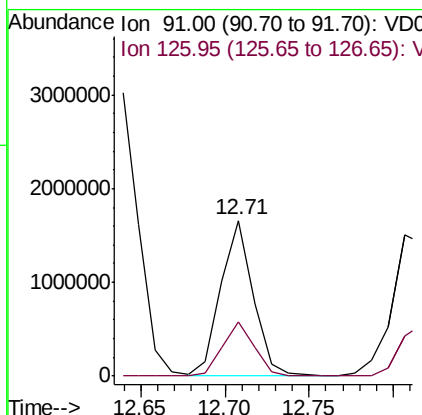
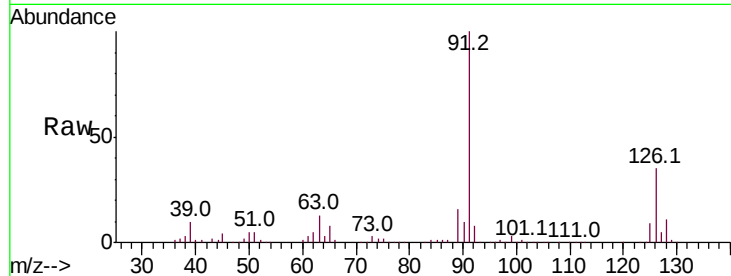




#79
2-Chlorotoluene
Concen: 47.062 ug/l
RT: 12.71 min Scan# 1167
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

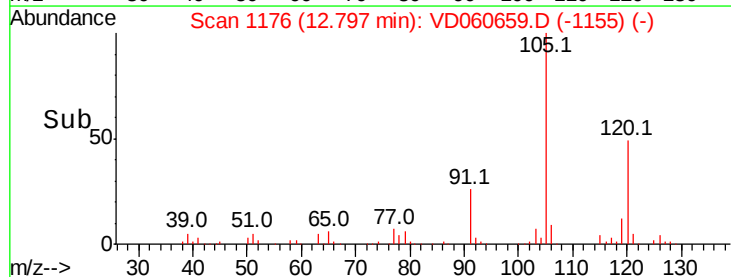
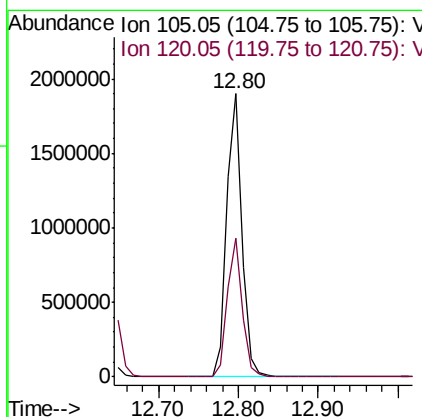
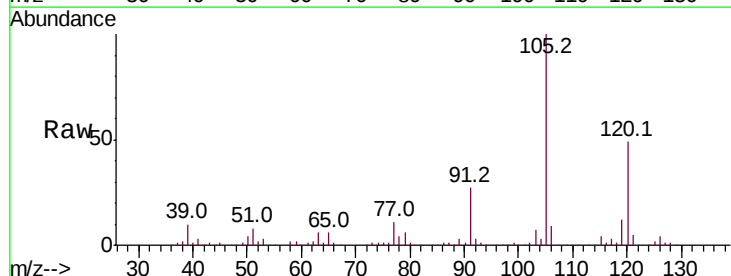
Instrument :
MSVOA_D
ClientSampleId :
ICVVD122018

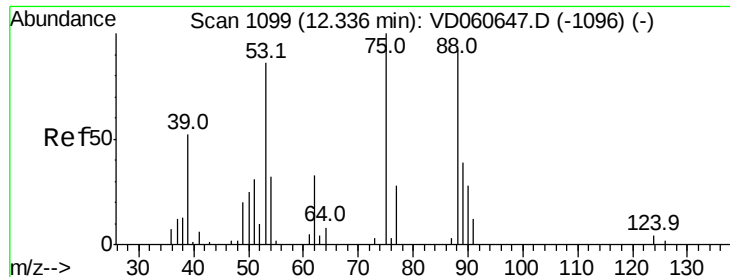
Tot Ion: 91 Resp: 2206066
Ion Ratio Lower Upper
91 100
126 34.5 17.2 51.5



#80
1,3,5-Trimethylbenzene
Concen: 48.706 ug/l
RT: 12.80 min Scan# 1176
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 105 Resp: 2574679
Ion Ratio Lower Upper
105 100
120 49.2 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 50.932 ug/l

RT: 12.34 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

ICVVD122018

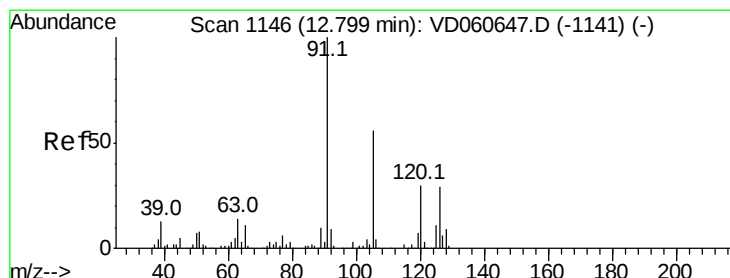
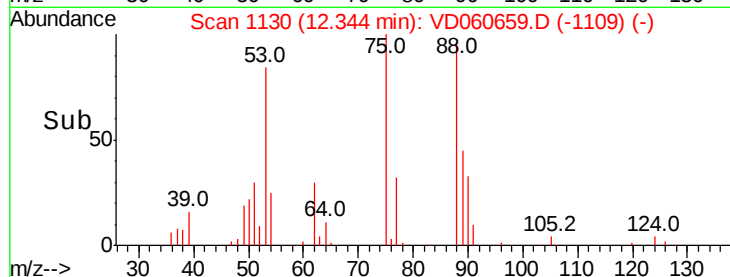
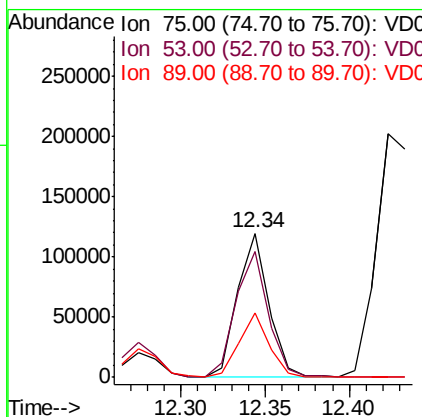
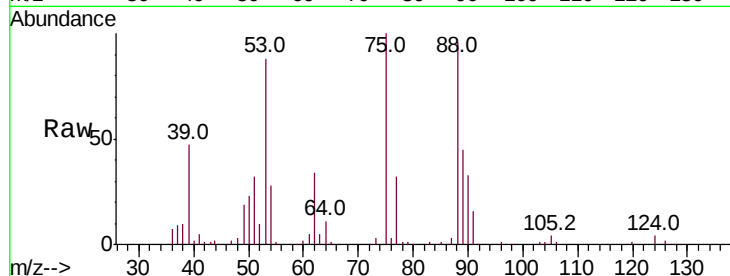
Tot Ion: 75 Resp: 154059

Ion Ratio Lower Upper

75 100

53 87.8 72.1 108.1

89 44.5 35.1 52.7



#82

4-Chlorotoluene

Concen: 45.877 ug/l

RT: 12.81 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VD060659.D

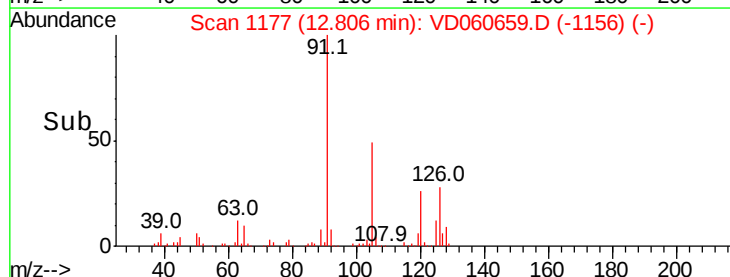
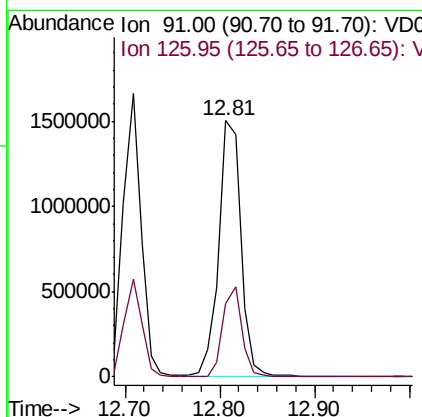
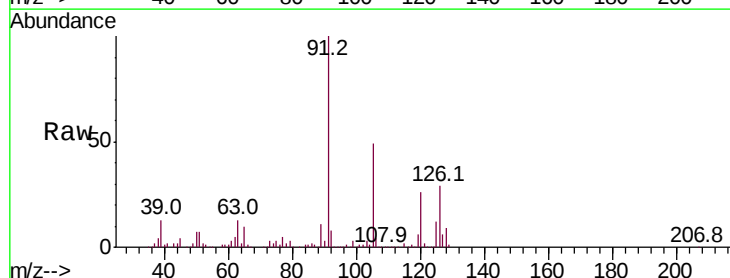
Acq: 20 Dec 2018 15:18

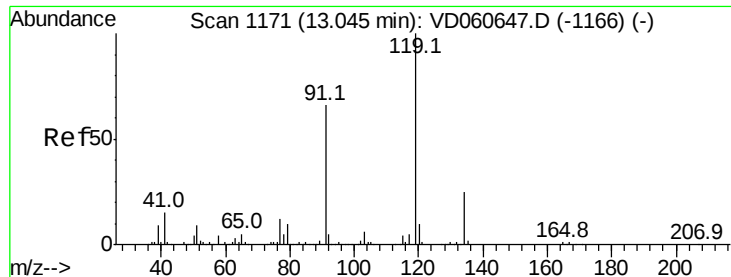
Tgt Ion: 91 Resp: 2437503

Ion Ratio Lower Upper

91 100

126 28.9 14.6 43.8

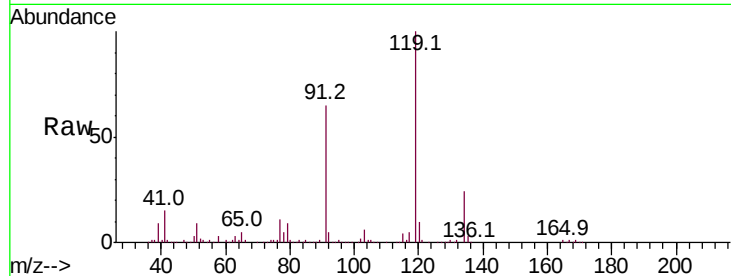




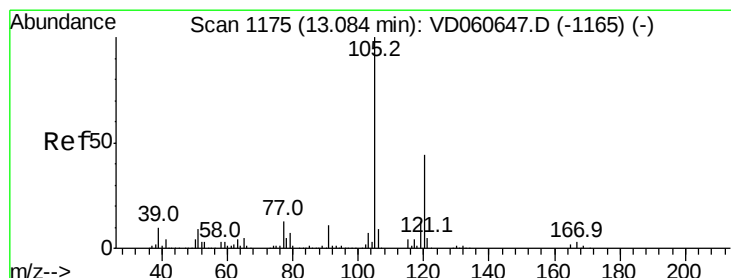
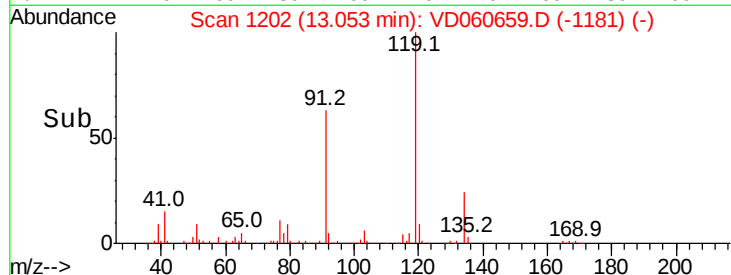
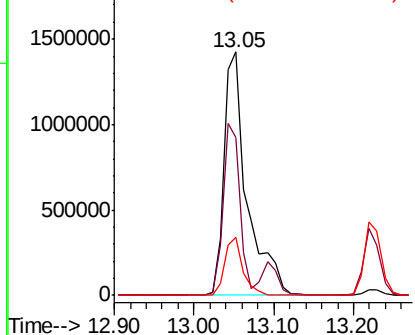
#83
tert-Butylbenzene
Concen: 48.182 ug/l
RT: 13.05 min Scan# 1202
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Instrument :
MSVOA_D
ClientSampleId :
ICVVD122018

Tot Ion:119 Resp: 2898642
Ion Ratio Lower Upper
119 100
91 65.0 32.5 97.4
134 23.6 11.9 35.9

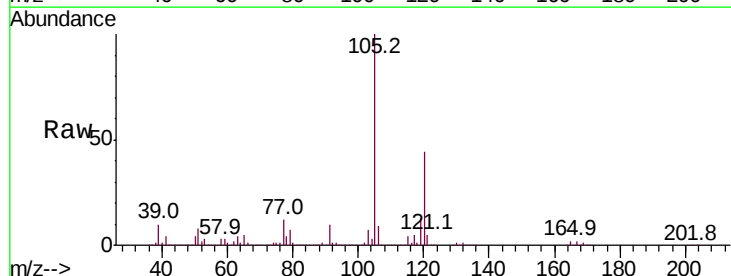


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

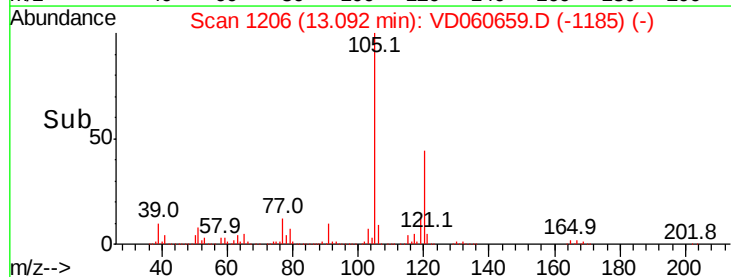
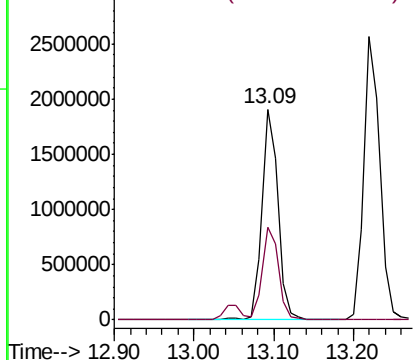


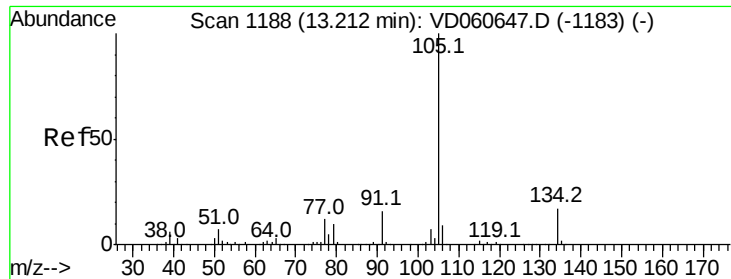
#84
1,2,4-Trimethylbenzene
Concen: 47.871 ug/l
RT: 13.09 min Scan# 1206
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion:105 Resp: 2606292
Ion Ratio Lower Upper
105 100
120 44.2 22.4 67.0



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 48.561 ug/l

RT: 13.22 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

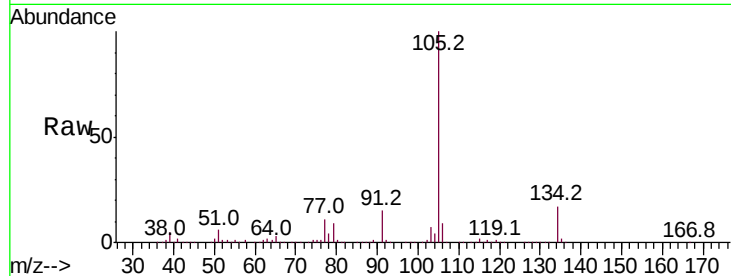
ICVVD122018

Tot Ion:105 Resp: 3562813

Ion Ratio Lower Upper

105 100

134 16.6 8.2 24.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

3000000

2500000

2000000

1500000

1000000

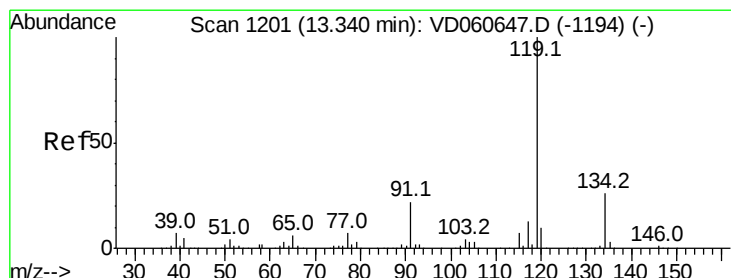
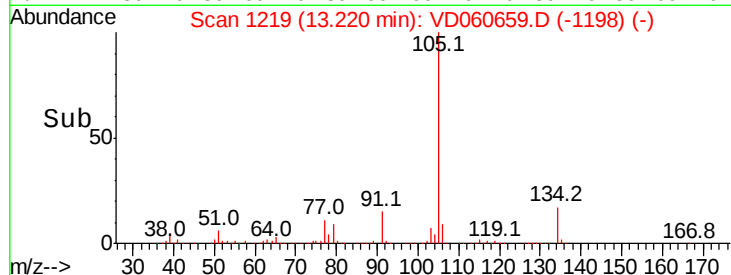
500000

0

13.22

13.30

Time-->



#86

p-Isopropyltoluene

Concen: 48.193 ug/l

RT: 13.35 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

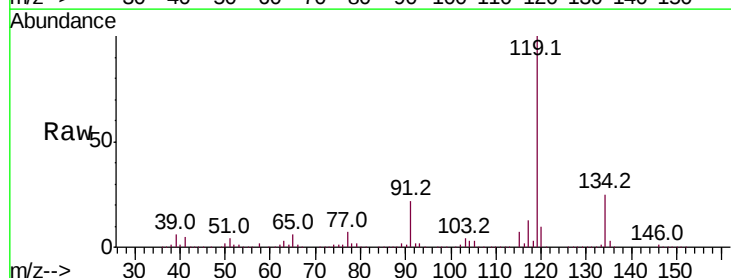
Tgt Ion:119 Resp: 2854130

Ion Ratio Lower Upper

119 100

134 25.2 12.5 37.5

91 22.0 11.4 34.2



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

2500000

2000000

1500000

1000000

500000

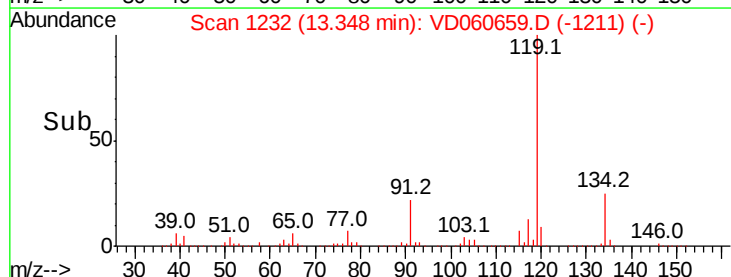
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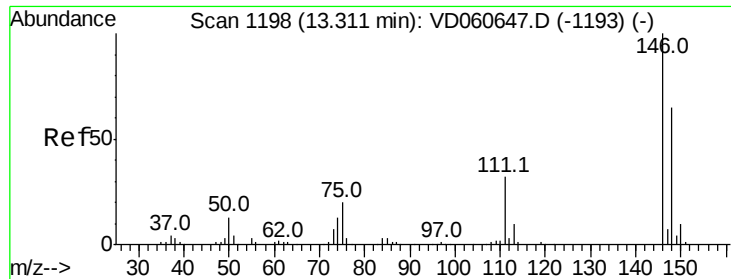
13.35

13.40

13.50

Time-->



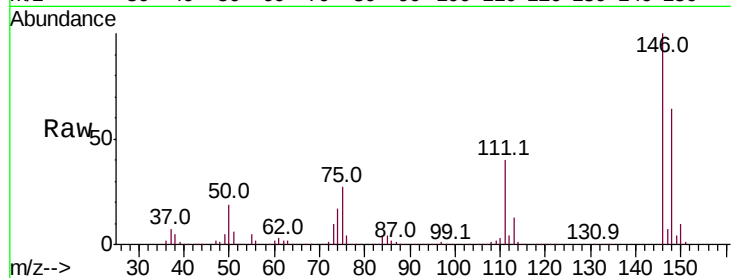


#87
 1,3-Dichlorobenzene
 Concen: 47.282 ug/l
 RT: 13.31 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

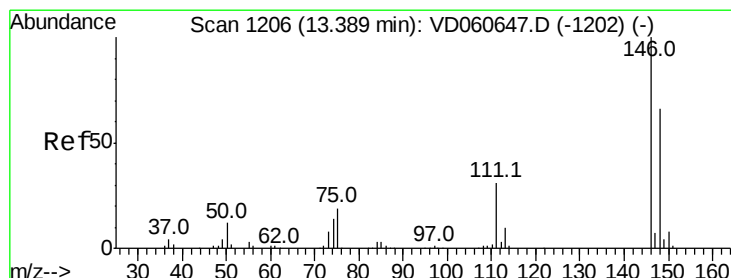
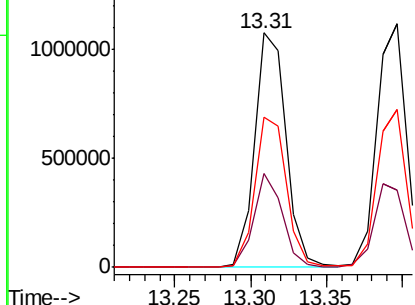
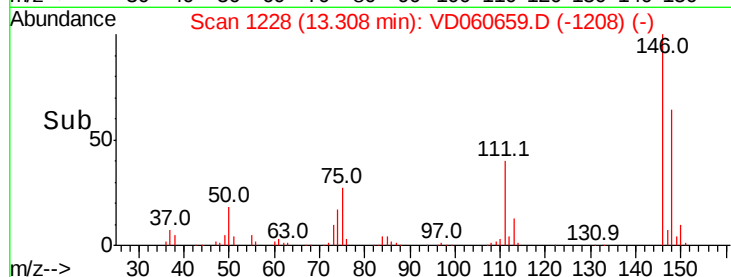
Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD122018

Tot Ion:146 Resp: 1568717

Ion	Ratio	Lower	Upper
146	100		
111	40.2	16.6	49.8
148	64.2	32.6	97.8



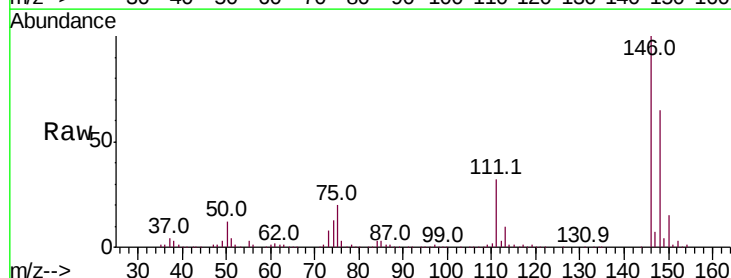
Abundance Ion 145.95 (145.65 to 146.65): V
 1500000 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V



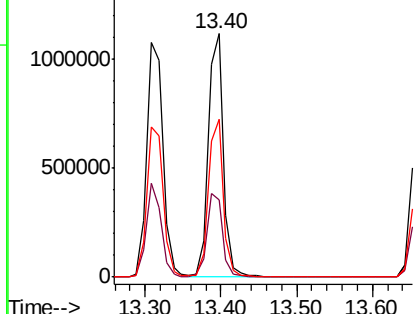
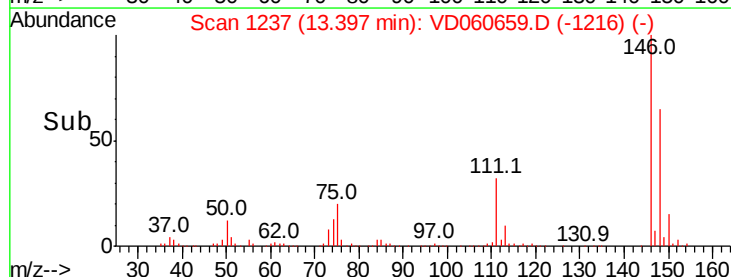
#88
 1,4-Dichlorobenzene
 Concen: 47.875 ug/l
 RT: 13.40 min Scan# 1237
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

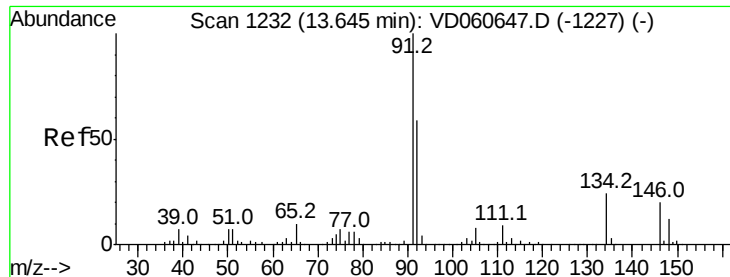
Tgt Ion:146 Resp: 1565201

Ion	Ratio	Lower	Upper
146	100		
111	31.7	16.2	48.5
148	64.8	32.7	98.1



Abundance Ion 145.95 (145.65 to 146.65): V
 1500000 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

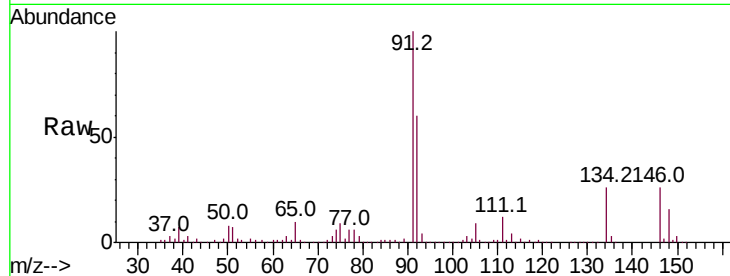




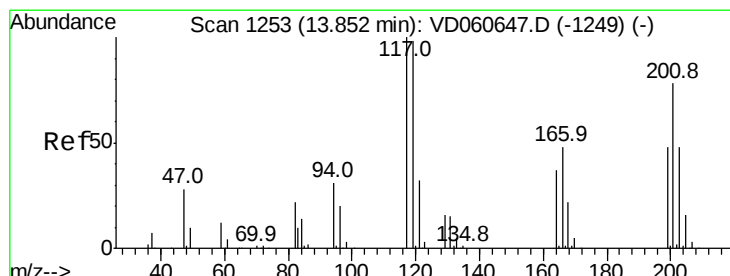
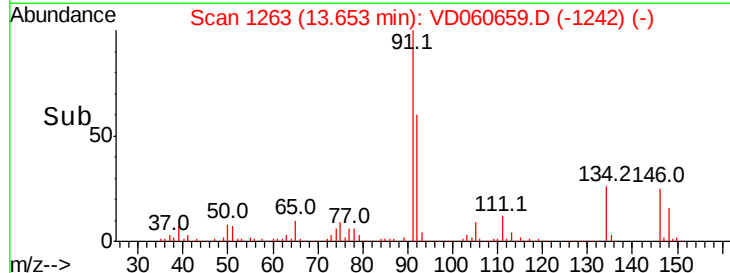
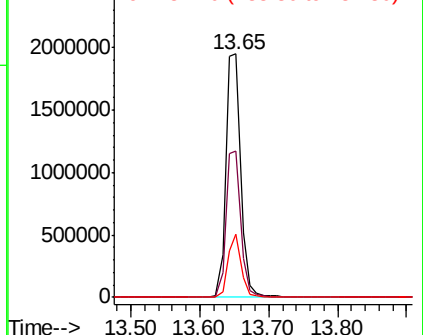
#89
n-Butylbenzene
Concen: 48.220 ug/l
RT: 13.65 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Instrument :
MSVOA_D
ClientSampleId :
ICVVD122018

Tot Ion: 91 Resp: 2918266
Ion Ratio Lower Upper
91 100
92 59.9 29.7 89.1
134 25.8 12.7 38.1

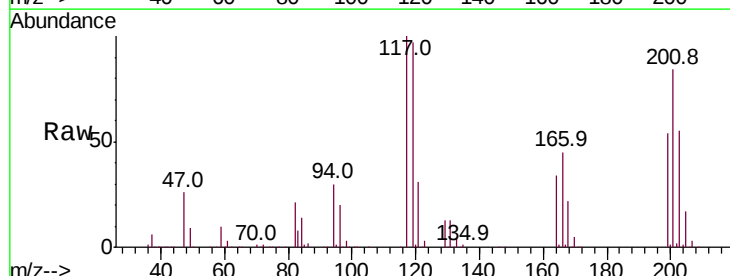


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V

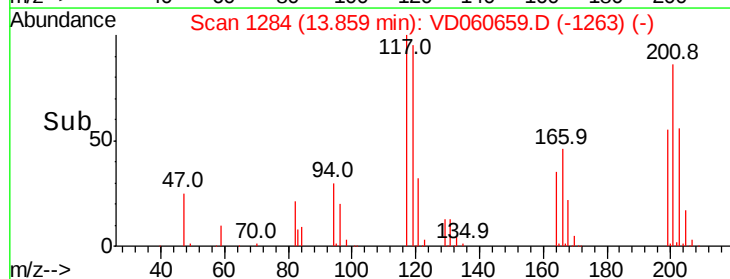
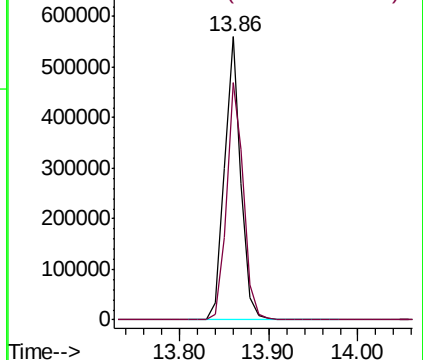


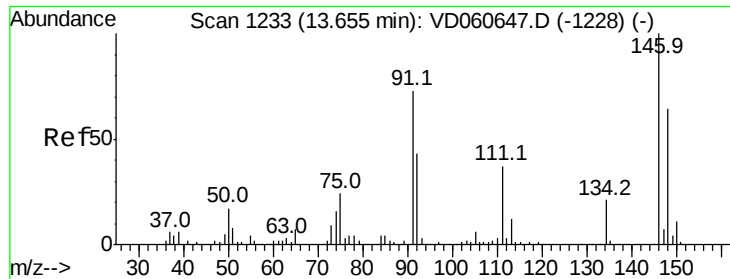
#90
Hexachloroethane
Concen: 49.798 ug/l
RT: 13.86 min Scan# 1284
Delta R.T. 0.00 min
Lab File: VD060659.D
Acq: 20 Dec 2018 15:18

Tgt Ion: 117 Resp: 724517
Ion Ratio Lower Upper
117 100
201 83.6 42.6 127.8



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V

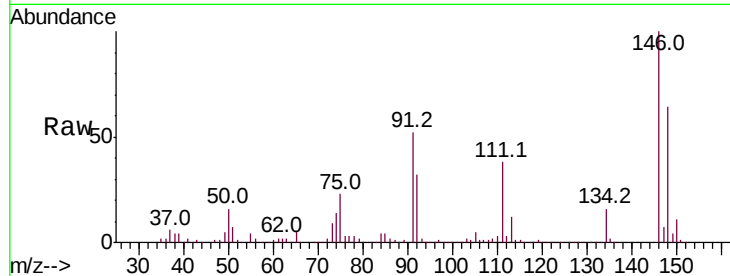




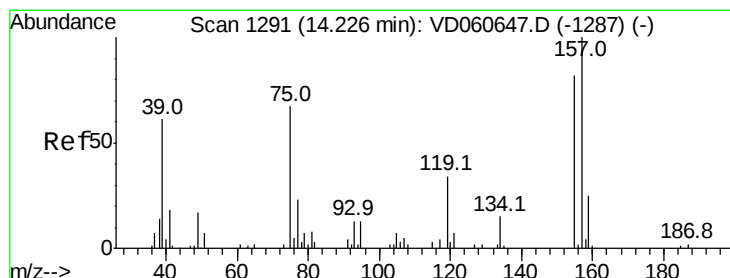
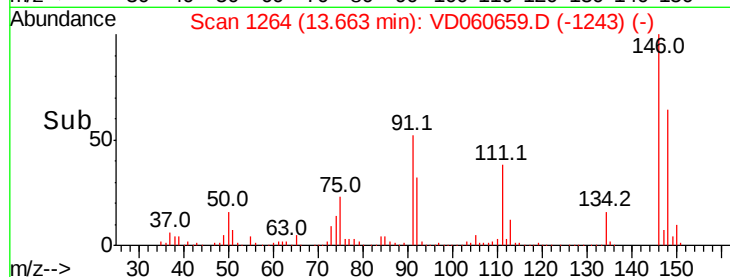
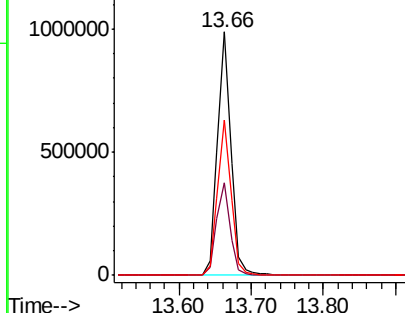
#91
 1,2-Dichlorobenzene
 Concen: 47.140 ug/l
 RT: 13.66 min Scan# 1264
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD122018

Tot Ion:146 Resp: 1254598
 Ion Ratio Lower Upper
 146 100
 111 38.2 19.3 57.9
 148 63.7 31.9 95.9

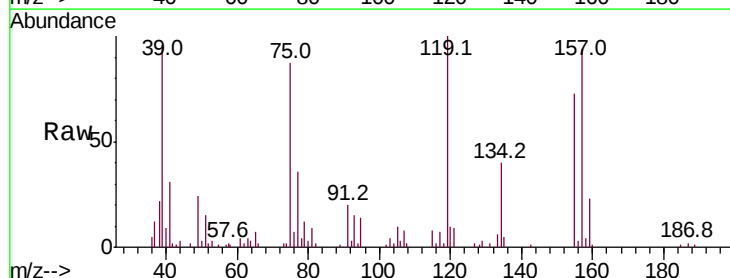


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

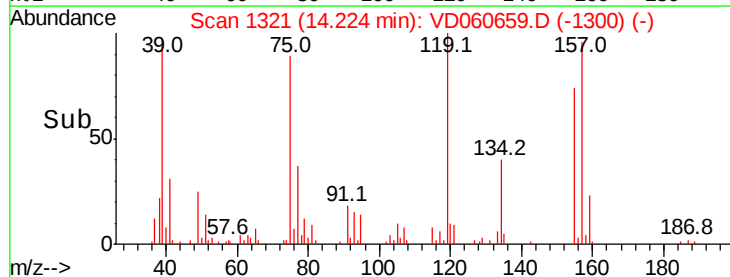
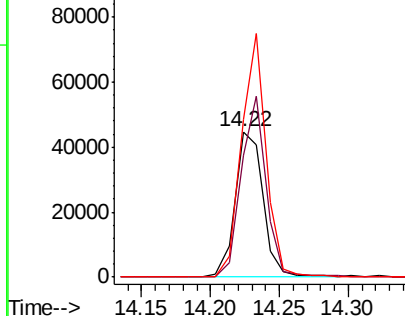


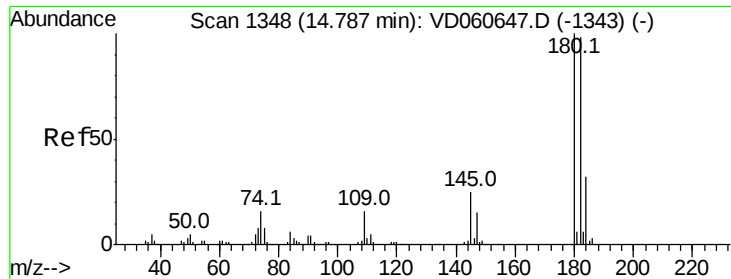
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 48.393 ug/l
 RT: 14.22 min Scan# 1321
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Tgt Ion: 75 Resp: 63084
 Ion Ratio Lower Upper
 75 100
 155 84.0 41.1 123.4
 157 108.1 52.5 157.6



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

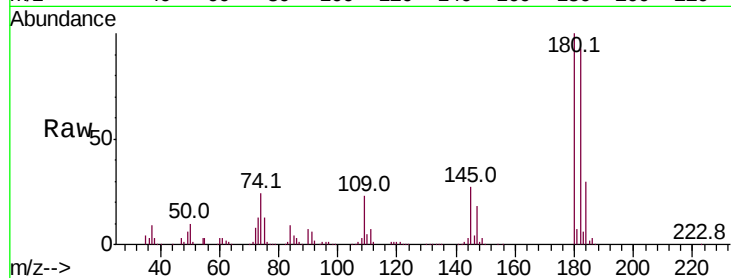




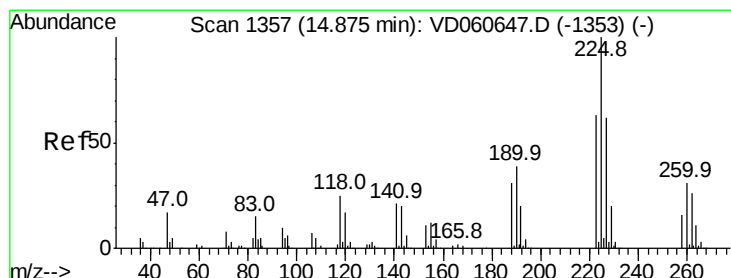
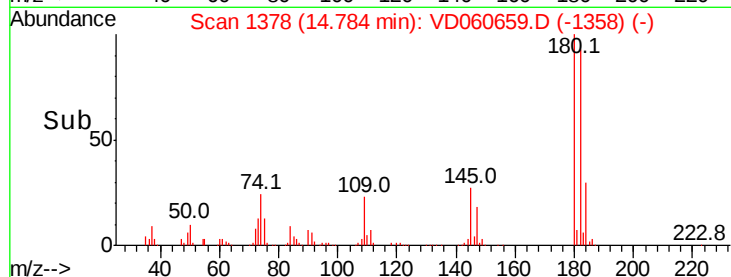
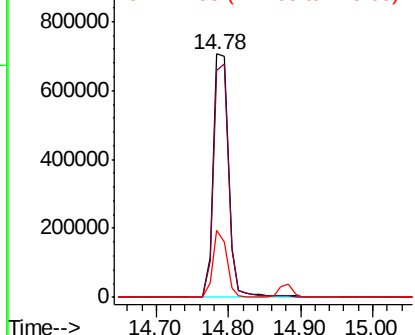
#93
 1,2,4-Trichlorobenzene
 Concen: 48.753 ug/l
 RT: 14.78 min Scan# 1378
 Delta R.T. -0.01 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD122018

Tot Ion:180 Resp: 1032485
 Ion Ratio Lower Upper
 180 100
 182 93.3 48.8 146.4
 145 27.4 11.8 35.3

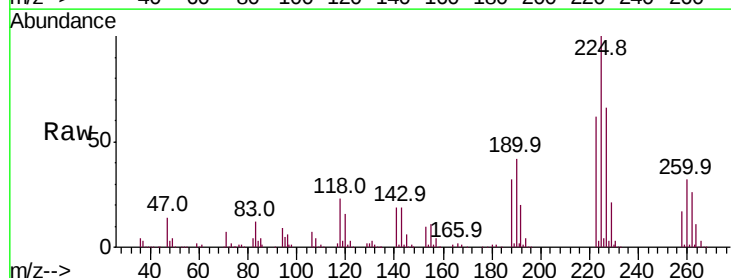


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

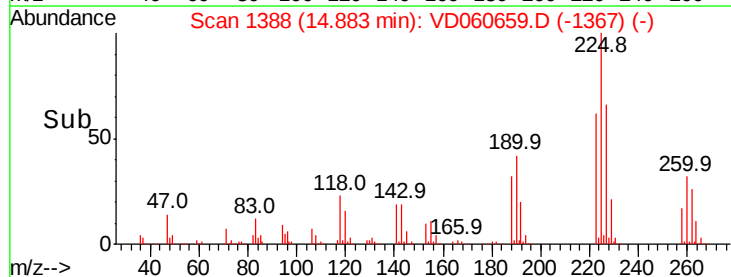
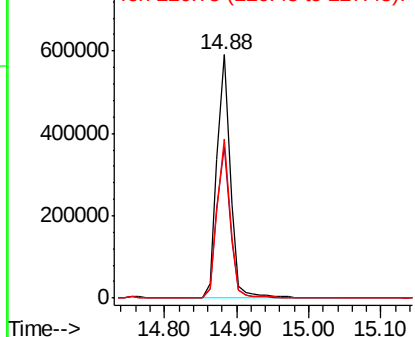


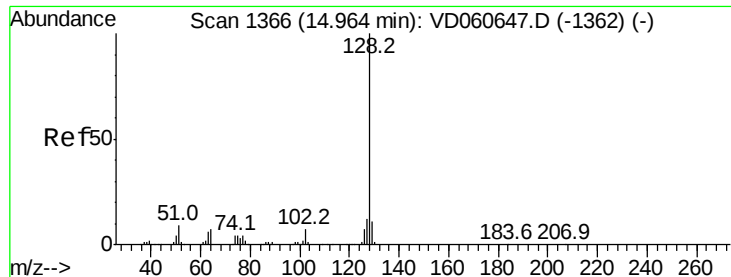
#94
 Hexachlorobutadiene
 Concen: 48.397 ug/l
 RT: 14.88 min Scan# 1388
 Delta R.T. 0.00 min
 Lab File: VD060659.D
 Acq: 20 Dec 2018 15:18

Tgt Ion:225 Resp: 757593
 Ion Ratio Lower Upper
 225 100
 223 62.4 31.3 93.8
 227 65.6 32.5 97.4



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: 48.914 ug/l

RT: 14.97 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

Instrument :

MSVOA_D

ClientSampleId :

ICVVD122018

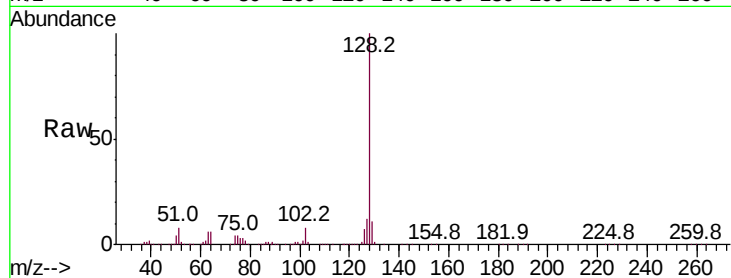
Tot Ion:128 Resp: 1231191

Ion Ratio Lower Upper

128 100

127 12.3 10.1 15.1

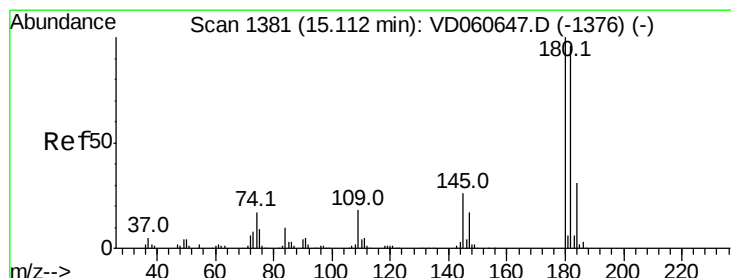
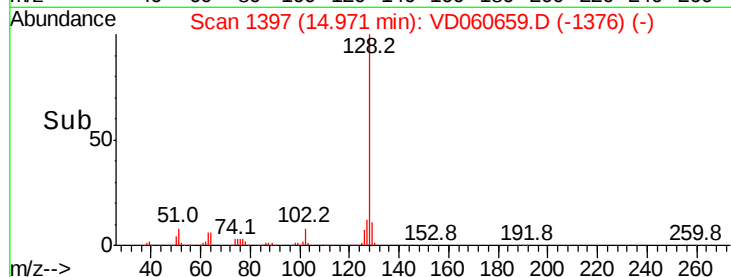
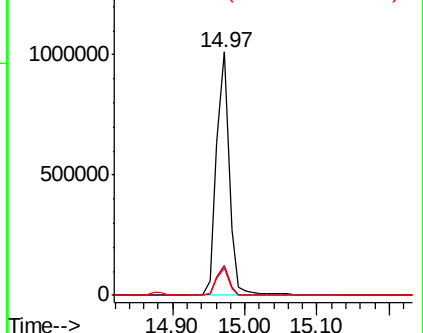
129 11.3 8.6 13.0



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: 47.967 ug/l

RT: 15.12 min Scan# 1412

Delta R.T. 0.00 min

Lab File: VD060659.D

Acq: 20 Dec 2018 15:18

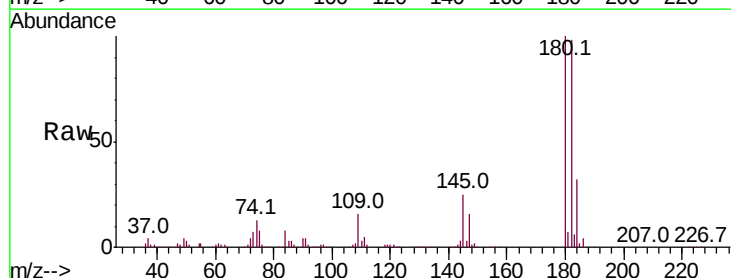
Tgt Ion:180 Resp: 794106

Ion Ratio Lower Upper

180 100

182 97.8 48.6 145.9

145 25.2 12.6 37.8



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

