

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051419\
 Data File : VD062369.D
 Acq On : 15 May 2019 3:05
 Operator : FY/SY
 Sample : K2756-19MSD
 Misc : 5.98g/5mL/MSVOA D/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 15 03:32:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	27412	50.00	ug/l	0.05
34) 1,4-Difluorobenzene	8.24	114	38650	50.00	ug/l	0.05
63) Chlorobenzene-d5	12.38	117	35796	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	14.53	152	16956	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	25323	99.41	ug/l	0.05
Spiked Amount			Recovery	=	198.82%	
35) Dibromofluoromethane	6.94	113	20782	64.81	ug/l	0.05
Spiked Amount			Recovery	=	129.62%	
50) Toluene-d8	10.42	98	34053	44.04	ug/l	0.03
Spiked Amount			Recovery	=	88.08%	
62) 4-Bromofluorobenzene	13.56	95	15089	48.60	ug/l	0.02
Spiked Amount			Recovery	=	97.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	10782	41.126	ug/l	98
3) Chloromethane	1.76	50	9966	52.608	ug/l	89
4) Vinyl Chloride	1.87	62	6934	37.244	ug/l #	80
5) Bromomethane	2.19	94	8178	187.464	ug/l #	91
6) Chloroethane	2.30	64	4329	55.413	ug/l	93
7) Trichlorofluoromethane	2.56	101	19859	54.866	ug/l	100
8) Diethyl Ether	2.89	74	5027	72.013	ug/l #	14
9) 1,1,2-Trichlorotrifluoroet	3.18	101	9844	35.952	ug/l #	79
10) Methyl Iodide	3.35	142	12016	29.036	ug/l	99
11) Tert butyl alcohol	4.08	59	12733	979.217	ug/l #	76
12) 1,1-Dichloroethene	3.15	96	8750	41.864	ug/l	85
14) Allvl chloride	3.64	41	16288	53.596	ug/l #	86
15) Acrylonitrile	4.22	53	25816	755.330	ug/l	96
16) Acetone	3.24	43	48422	906.400	ug/l	91
17) Carbon Disulfide	3.40	76	18870	31.384	ug/l	100
18) Methyl Acetate	3.66	43	62040	652.987	ug/l	97
19) Methyl tert-butyl Ether	4.26	73	49530	110.557	ug/l #	90
20) Methylene Chloride	3.84	84	15272	68.466	ug/l	94
21) trans-1,2-Dichloroethene	4.24	96	10049	43.206	ug/l #	76
22) Diisopropyl ether	5.14	45	45741	70.730	ug/l #	86
23) Vinyl Acetate	5.15	43	22175	64.990	ug/l #	77
24) 1,1-Dichloroethane	5.01	63	23251	59.598	ug/l #	85
25) 2-Butanone	6.08	43	49295	845.962	ug/l #	84
26) 2,2-Dichloropropane	6.05	77	17108	44.023	ug/l	89
27) cis-1,2-Dichloroethene	6.06	96	15102	58.010	ug/l	98
28) Bromochloromethane	6.46	49	16873	109.929	ug/l #	76
29) Tetrahydrofuran	6.48	42	27084	1008.757	ug/l	93
30) Chloroform	6.69	83	34093	72.511	ug/l	98
31) Cyclohexane	6.97	56	7076	26.474	ug/l	95
32) 1,1,1-Trichloroethane	6.89	97	24561	55.267	ug/l	98
36) 1,1-Dichloropropene	7.16	75	13749	43.387	ug/l	87
37) Ethyl Acetate	6.19	43	4072	30.300	ug/l #	64
38) Carbon Tetrachloride	7.14	117	20894	47.637	ug/l	93
39) Methylcyclohexane	8.89	83	4804	15.822	ug/l #	90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	7.47	78	36184	50.566	ug/l	94
41) Methacrylonitrile	6.48	41	27208	165.669	ug/l #	74
42) 1,2-Dichloroethane	7.60	62	34233	112.913	ug/l	84
43) Isopropyl Acetate	9.27	43	1254	6.579	ug/l #	43
44) Trichloroethene	8.56	130	12001	44.012	ug/l	89
45) 1,2-Dichloropropane	8.96	63	9945	56.186	ug/l	92
46) Dibromomethane	9.07	93	16327	113.434	ug/l	85
47) Bromodichloromethane	9.39	83	27164	77.156	ug/l #	89
48) Methyl methacrylate	9.13	41	21715	184.968	ug/l #	79
49) 1,4-Dioxane	9.08	88	5464	4313.646	ug/l	93
51) 4-Methyl-2-Pentanone	10.31	43	95121	776.395	ug/l	91
52) Toluene	10.52	92	25884	55.594	ug/l	86
53) t-1,3-Dichloropropene	10.92	75	23331	76.675	ug/l	90
54) cis-1,3-Dichloropropene	10.05	75	21243	63.994	ug/l #	88
55) 1,1,2-Trichloroethane	11.20	97	17521	106.358	ug/l	93
56) Ethyl methacrylate	11.05	69	593	3.464	ug/l #	78
57) 1,3-Dichloropropane	11.42	76	22870	91.894	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.87	63	60044	642.133	ug/l	98
59) 2-Hexanone	11.54	43	67121	743.318	ug/l	94
60) Dibromochloromethane	11.69	129	24244	85.157	ug/l	87
61) 1,2-Dibromoethane	11.82	107	19803	98.877	ug/l	95
64) Tetrachloroethene	11.27	164	8915	31.849	ug/l	90
65) Chlorobenzene	12.41	112	25545	38.315	ug/l	94
66) 1,1,1,2-Tetrachloroethane	12.52	131	15837	54.580	ug/l	86
67) Ethyl Benzene	12.53	91	44938	40.261	ug/l #	89
68) m/p-Xylenes	12.68	106	30294	74.599	ug/l #	61
69) o-Xylene	13.06	106	15841	41.959	ug/l	72
70) Stvrene	13.08	104	31400	49.097	ug/l #	90
71) Bromoform	13.25	173	16466	81.565	ug/l #	95
73) Isopropylbenzene	13.41	105	41468	40.799	ug/l	94
75) 1,1,2,2-Tetrachloroethane	13.71	83	21717	112.865	ug/l	90
76) 1,2,3-Trichloropropane	13.74	75	25286	125.483	ug/l	95
77) Bromobenzene	13.68	156	16486	57.942	ug/l	94
78) n-propylbenzene	13.78	91	41221	33.998	ug/l	98
79) 2-Chlorotoluene	13.85	91	31488	45.346	ug/l	78
80) 1,3,5-Trimethylbenzene	13.94	105	33264	38.865	ug/l	81
81) trans-1,4-Dichloro-2-buten	13.48	75	4735	83.235	ug/l #	78
82) 4-Chlorotoluene	13.95	91	34043	41.662	ug/l	86
83) tert-Butylbenzene	14.20	119	32560	33.846	ug/l	96
84) 1,2,4-Trimethylbenzene	14.24	105	34113	39.718	ug/l	81
85) sec-Butylbenzene	14.37	105	27377	25.956	ug/l	86
86) p-Isopropyltoluene	14.50	119	24097	25.571	ug/l	93
87) 1,3-Dichlorobenzene	14.46	146	19625	37.758	ug/l	100
88) 1,4-Dichlorobenzene	14.55	146	19270	37.732	ug/l	91
89) n-Butylbenzene	14.80	91	17481	20.667	ug/l	88
90) Hexachloroethane	15.02	117	5990	23.374	ug/l #	52
91) 1,2-Dichlorobenzene	14.81	146	18868	44.078	ug/l	87
92) 1,2-Dibromo-3-Chloropropan	15.38	75	4653	147.315	ug/l	50
93) 1,2,4-Trichlorobenzene	15.95	180	7694	24.695	ug/l	92
94) Hexachlorobutadiene	16.04	225	2703	11.664	ug/l	78

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Response via : Initial Calibration

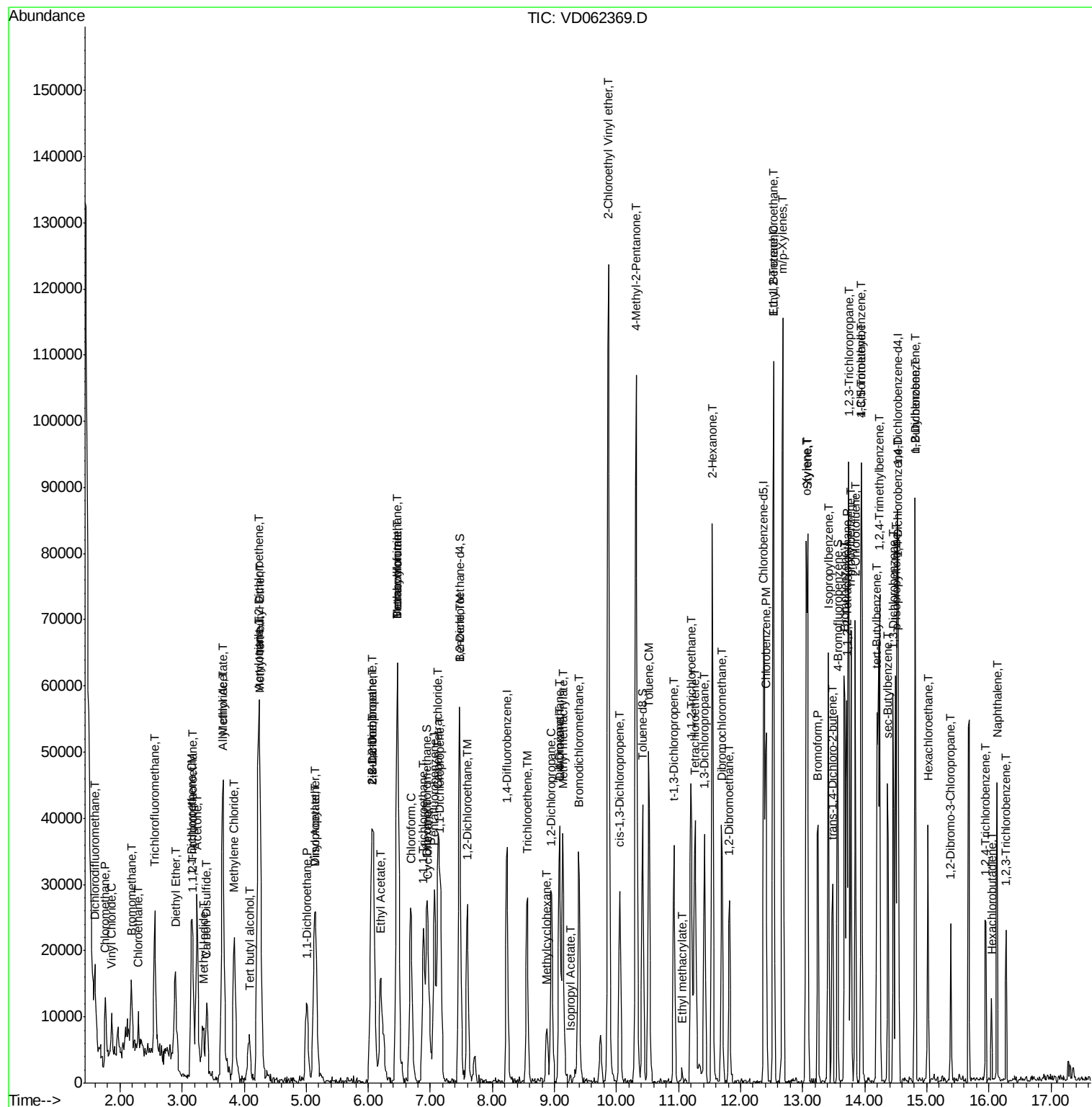
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Naphthalene	16.13	128	24935	57.324	ug/l	98
96) 1,2,3-Trichlorobenzene	16.28	180	6025	30.756	ug/l	96

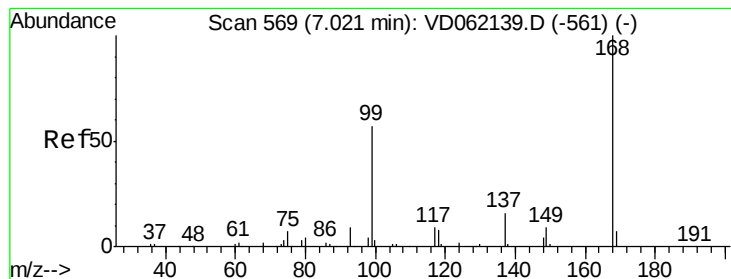
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.05 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

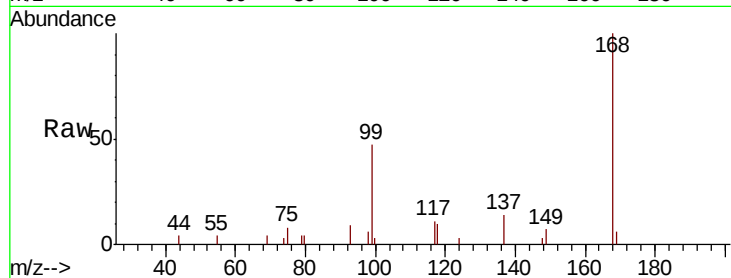
ClientSampled :

Tot Ion:168 Resp: 27412

Ion Ratio Lower Upper

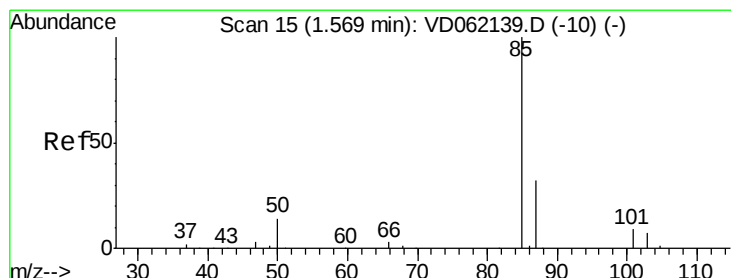
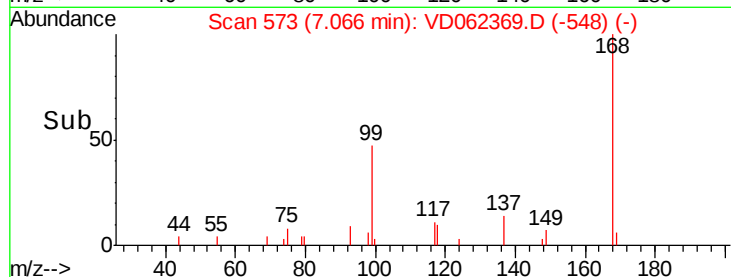
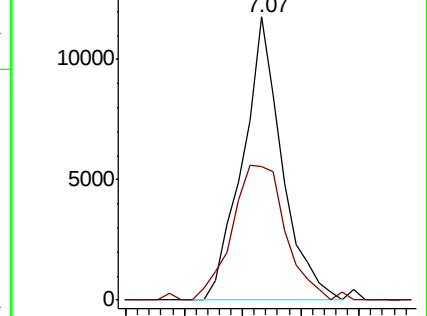
168 100

99 47.1 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 41.126 ug/l

RT: 1.59 min Scan# 17

Delta R.T. 0.03 min

Lab File: VD062369.D

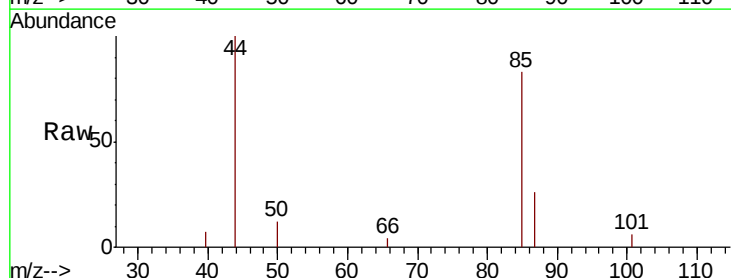
Acq: 15 May 2019 3:05

Tgt Ion: 85 Resp: 10782

Ion Ratio Lower Upper

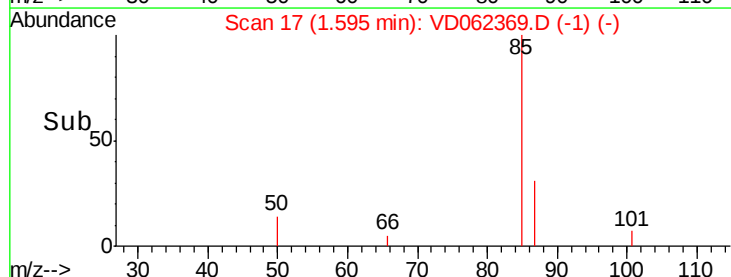
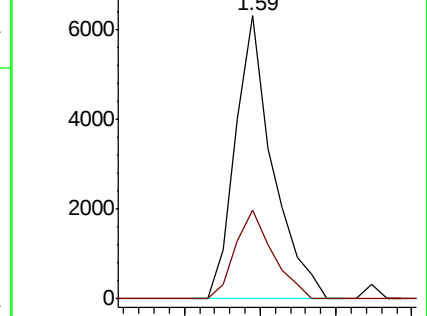
85 100

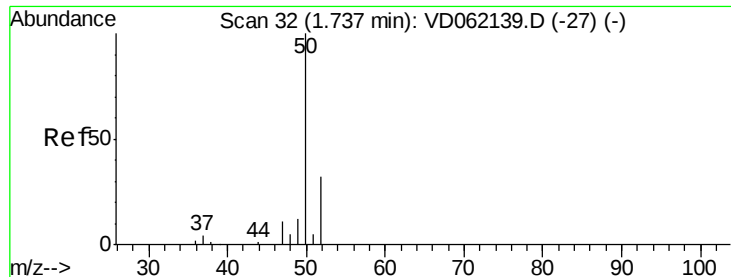
87 31.5 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 52.608 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.03 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

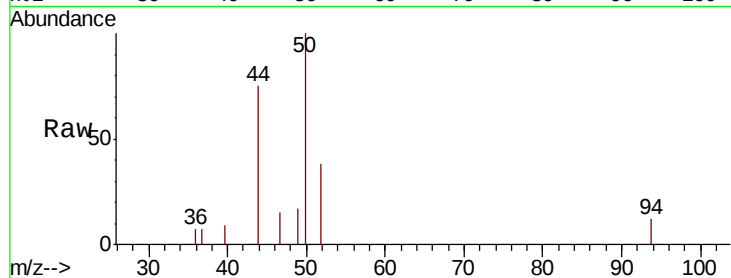
ClientSampleId :

Tot Ion: 50 Resp: 9966

Ion Ratio Lower Upper

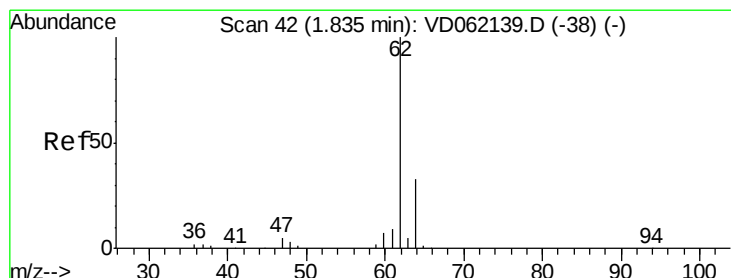
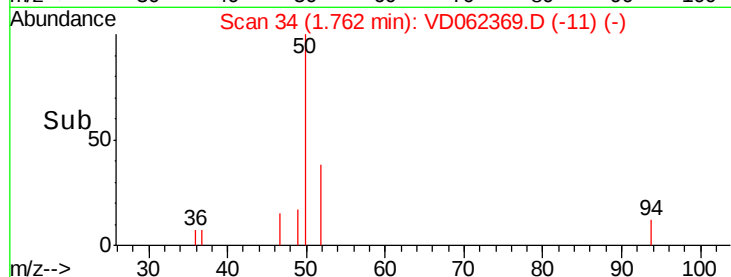
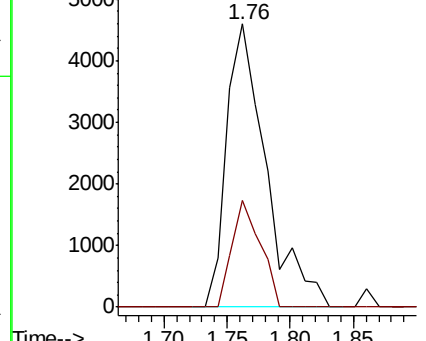
50 100

52 37.7 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 37.244 ug/l

RT: 1.87 min Scan# 45

Delta R.T. 0.04 min

Lab File: VD062369.D

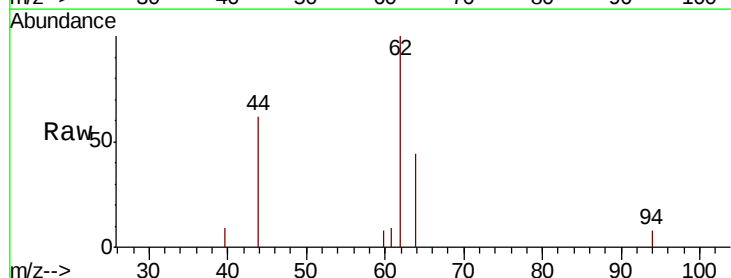
Acq: 15 May 2019 3:05

Tgt Ion: 62 Resp: 6934

Ion Ratio Lower Upper

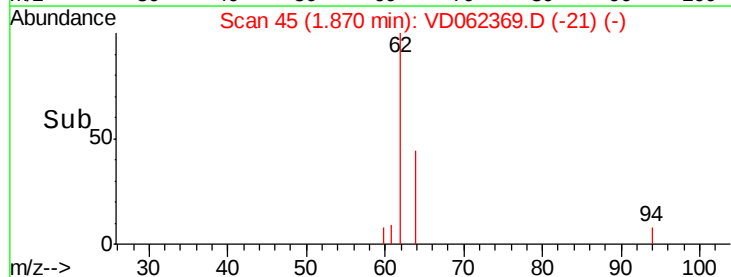
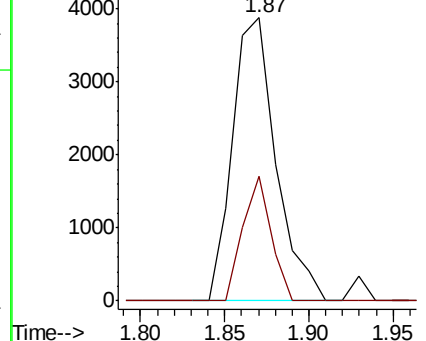
62 100

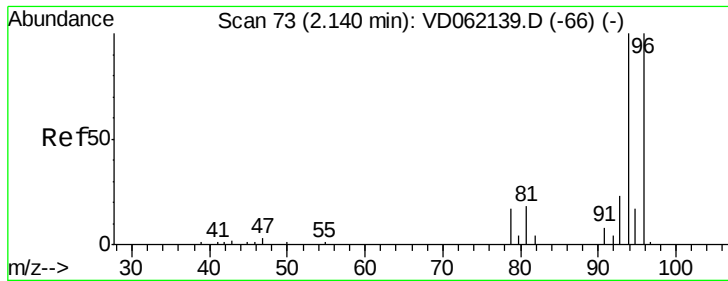
64 44.2 26.5 39.7#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 187.464 ug/l

RT: 2.19 min Scan# 77

Delta R.T. 0.05 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

ClientSampleId :

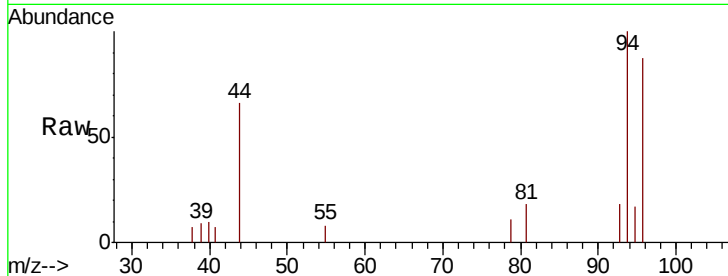
Tot Ion: 94 Resp: 8178

Ion Ratio Lower Upper

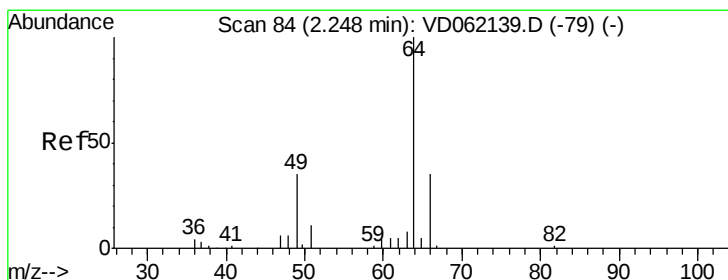
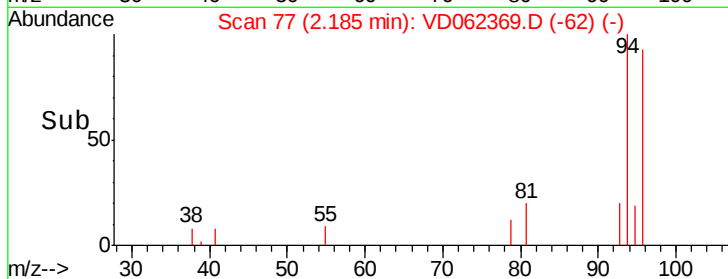
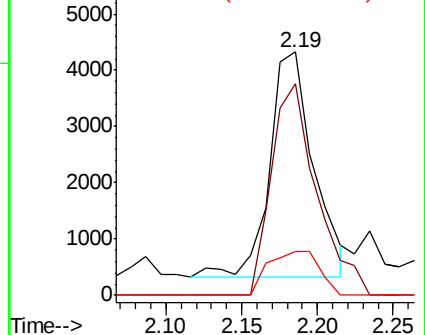
94 100

96 86.7 76.6 115.0

93 18.3 18.5 27.7#



Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 55.413 ug/l

RT: 2.30 min Scan# 89

Delta R.T. 0.05 min

Lab File: VD062369.D

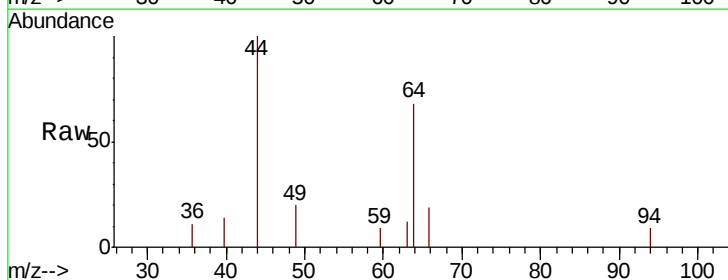
Acq: 15 May 2019 3:05

Tgt Ion: 64 Resp: 4329

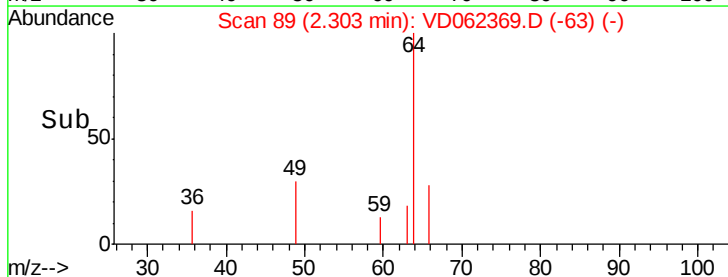
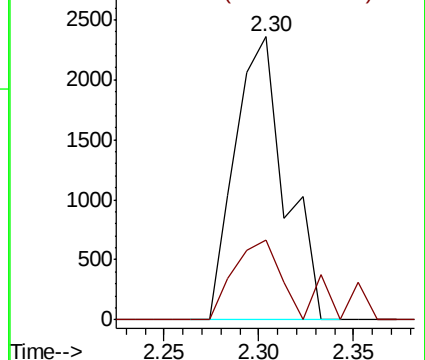
Ion Ratio Lower Upper

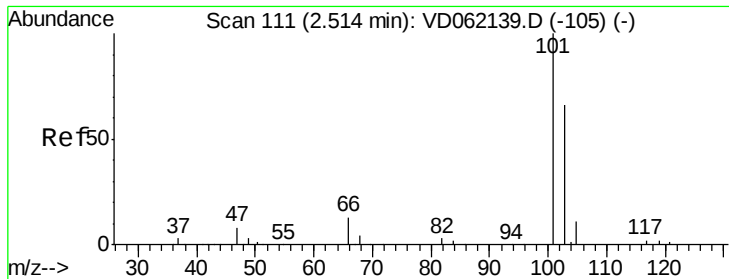
64 100

66 28.4 25.6 38.4



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



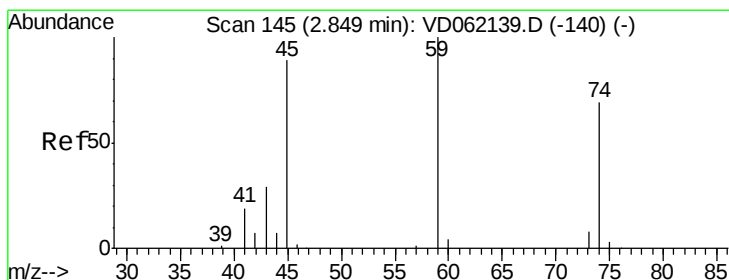
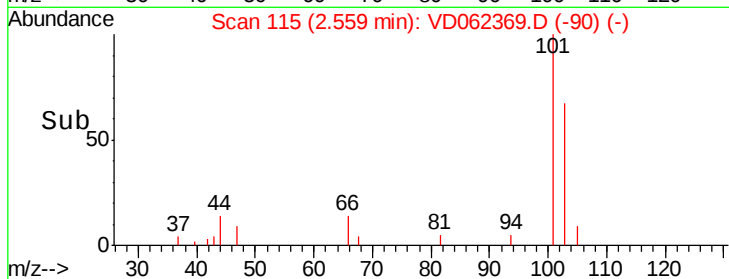
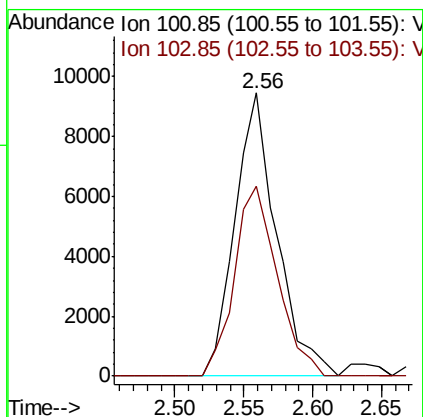
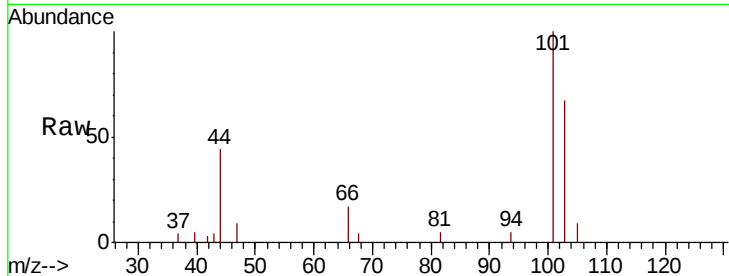


#7

Trichlorofluoromethane
 Concen: 54.866 ug/l
 RT: 2.56 min Scan# 115
 Delta R.T. 0.05 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Instrument :
 MSVOA_D
 ClientSampled :

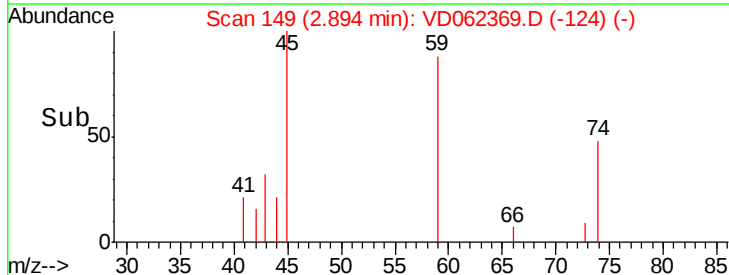
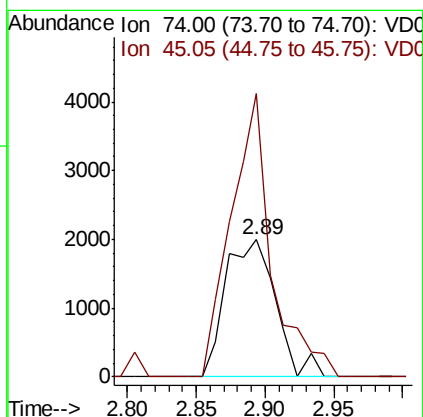
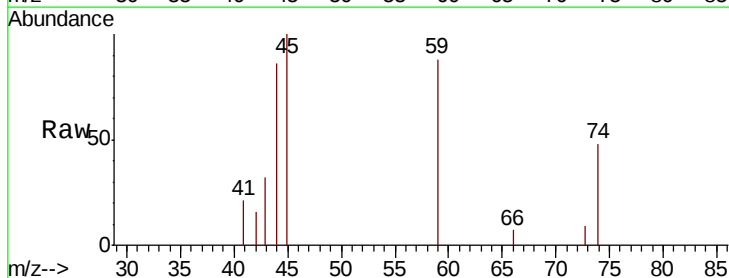
Tot Ion:101 Resp: 19859
 Ion Ratio Lower Upper
 101 100
 103 66.9 53.6 80.4

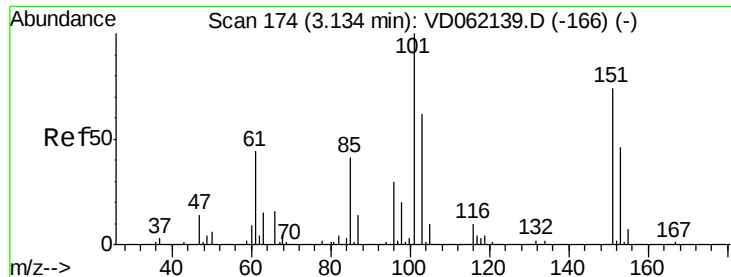


#8

Diethyl Ether
 Concen: 72.013 ug/l
 RT: 2.89 min Scan# 149
 Delta R.T. 0.05 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Tgt Ion: 74 Resp: 5027
 Ion Ratio Lower Upper
 74 100
 45 206.8 56.9 170.7#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 35.952 ug/l

RT: 3.18 min Scan# 178

Delta R.T. 0.05 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

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ClientSampleId :

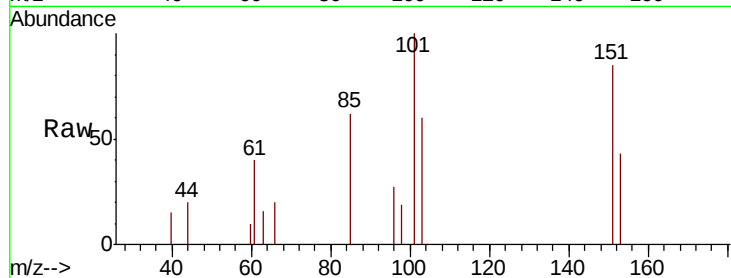
Tot Ion:101 Resp: 9844

Ion Ratio Lower Upper

101 100

85 62.2 32.4 48.6#

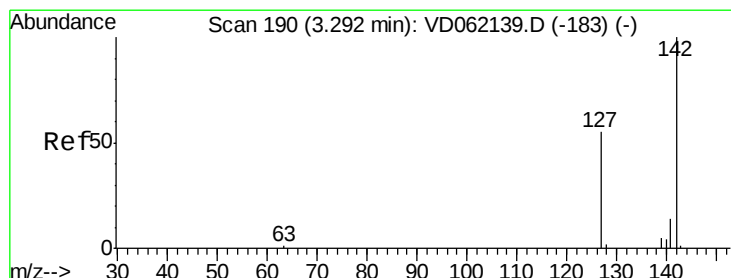
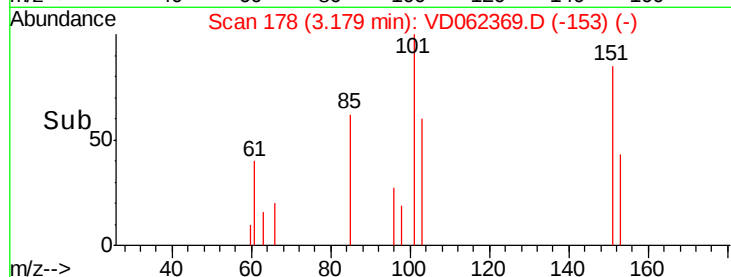
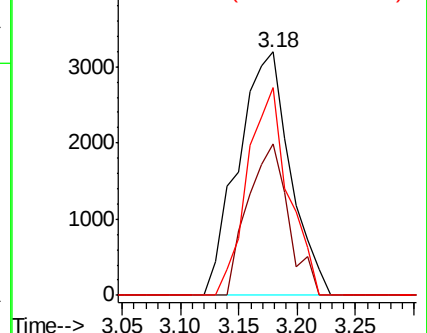
151 85.5 59.4 89.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 29.036 ug/l

RT: 3.35 min Scan# 195

Delta R.T. 0.05 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

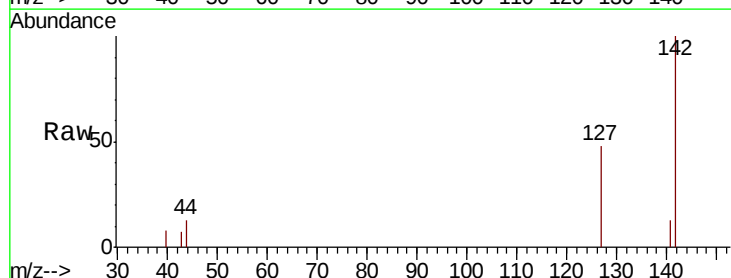
Tgt Ion:142 Resp: 12016

Ion Ratio Lower Upper

142 100

127 48.3 38.8 58.2

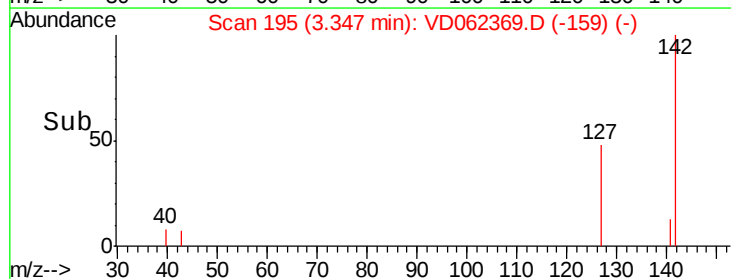
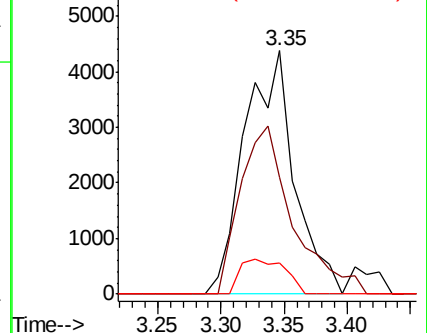
141 12.9 11.4 17.0

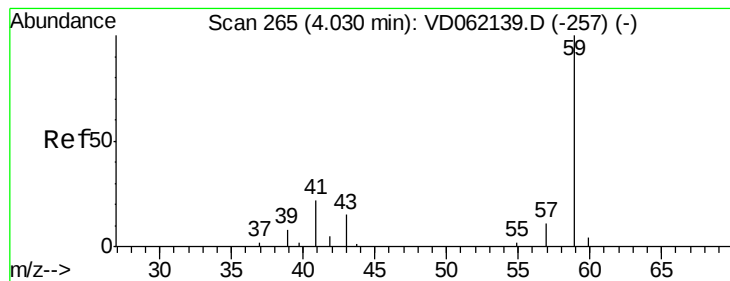


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



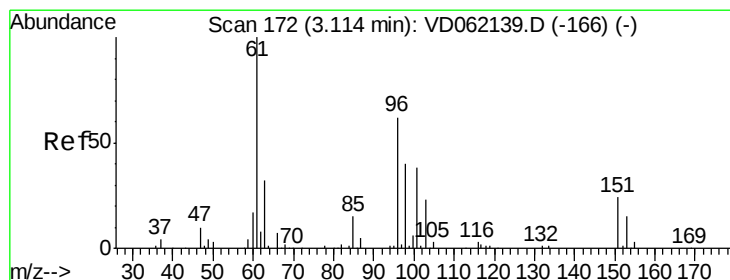
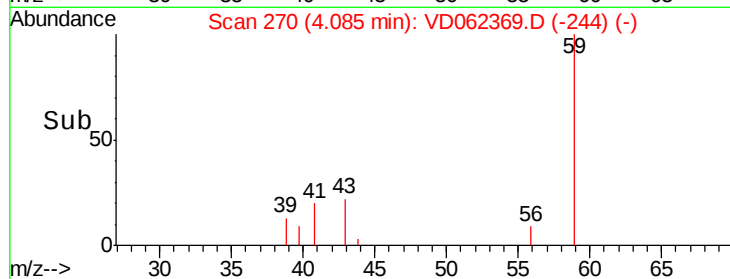
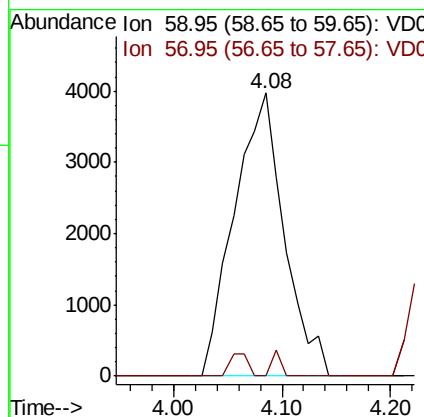
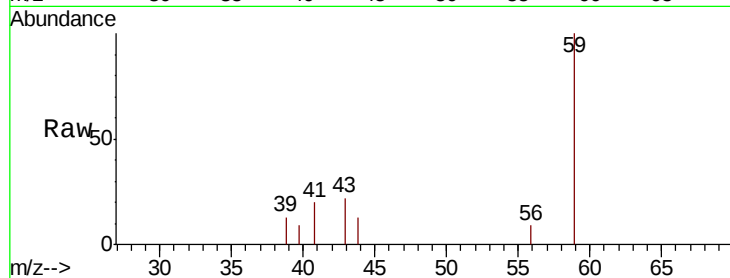


#11

Tert butyl alcohol
 Concen: 979.217 ug/l
 RT: 4.08 min Scan# 270
 Delta R.T. 0.05 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Instrument :
 MSVOA_D
 ClientSampleId :

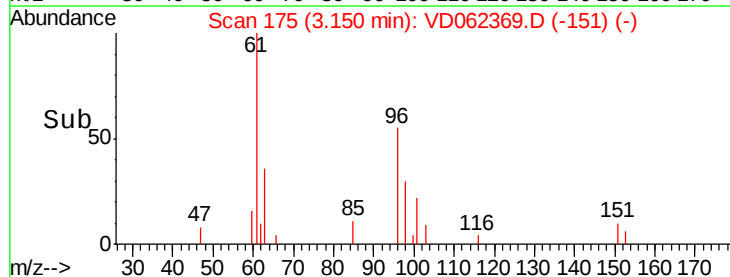
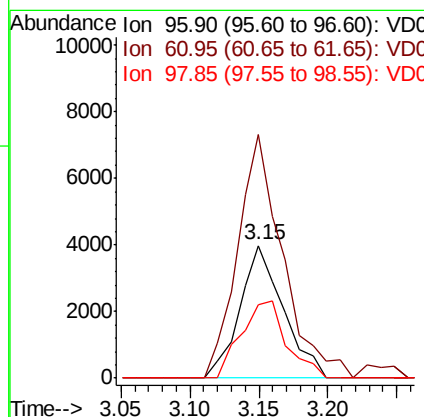
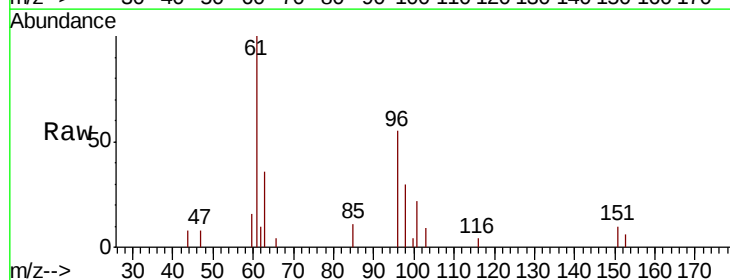
Tot Ion: 59 Resp: 12733
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.9 10.3#

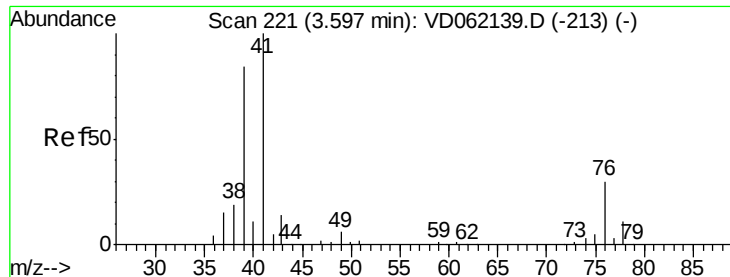


#12

1,1-Dichloroethene
 Concen: 41.864 ug/l
 RT: 3.15 min Scan# 175
 Delta R.T. 0.04 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Tgt Ion: 96 Resp: 8750
 Ion Ratio Lower Upper
 96 100
 61 183.3 129.8 194.8
 98 55.0 51.2 76.8

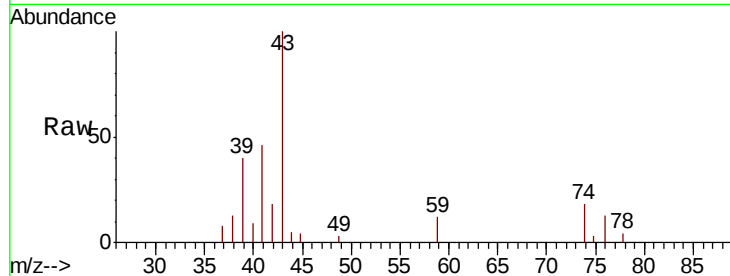




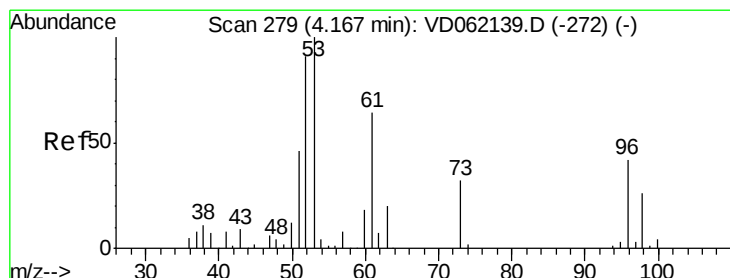
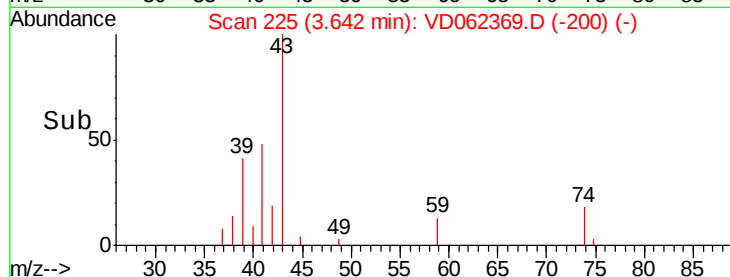
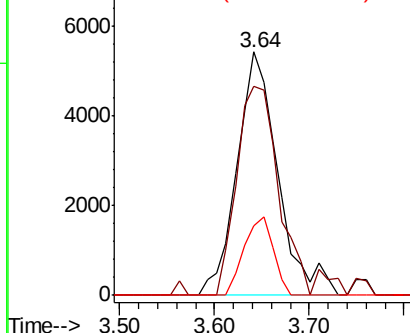
#14
Allvl chloride
Concen: 53.596 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.05 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 41 Resp: 16288
Ion Ratio Lower Upper
41 100
39 86.0 60.5 90.7
76 28.3 31.8 47.8#

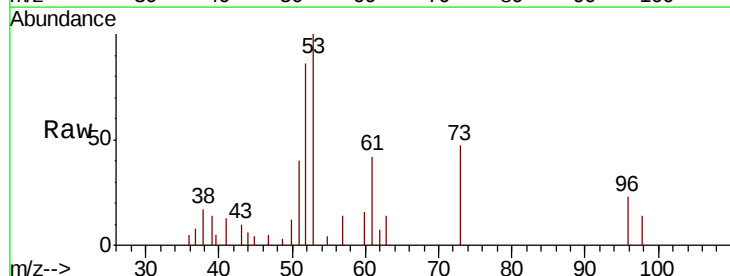


Abundance Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 75.95 (75.65 to 76.65): VDC

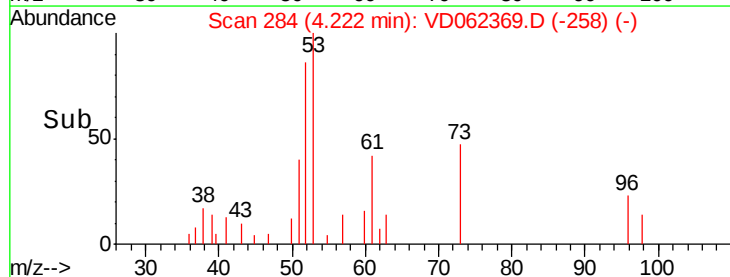
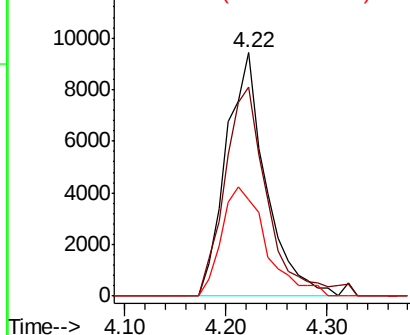


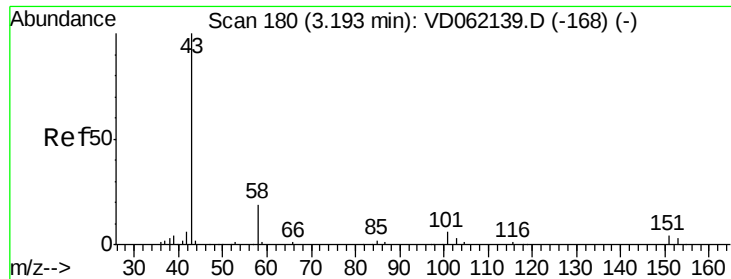
#15
Acrylonitrile
Concen: 755.330 ug/l
RT: 4.22 min Scan# 284
Delta R.T. 0.05 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Tgt Ion: 53 Resp: 25816
Ion Ratio Lower Upper
53 100
52 85.6 65.0 97.4
51 39.7 32.6 48.8



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: 906.400 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.05 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

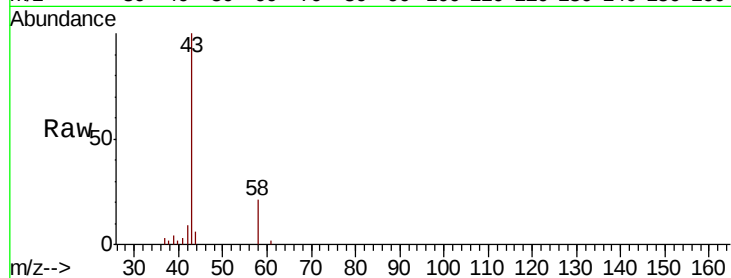
ClientSampleId :

Tot Ion: 43 Resp: 48422

Ion Ratio Lower Upper

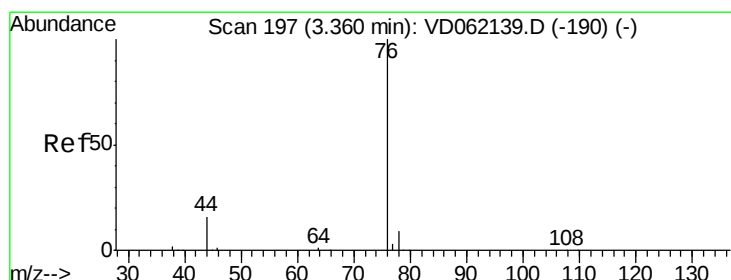
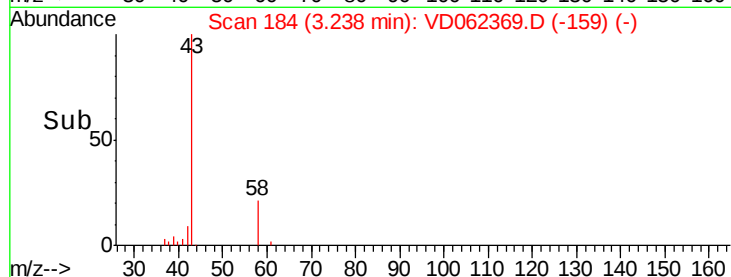
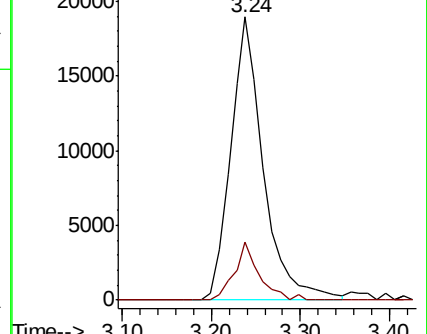
43 100

58 20.5 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 31.384 ug/l

RT: 3.40 min Scan# 200

Delta R.T. 0.04 min

Lab File: VD062369.D

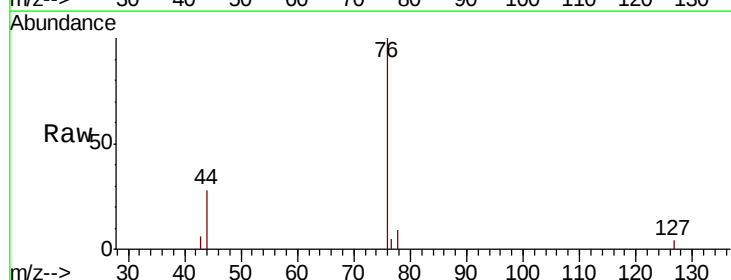
Acq: 15 May 2019 3:05

Tgt Ion: 76 Resp: 18870

Ion Ratio Lower Upper

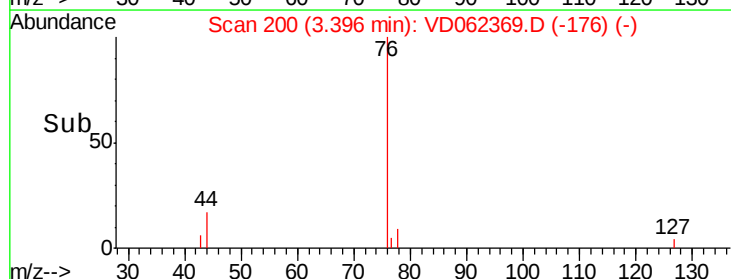
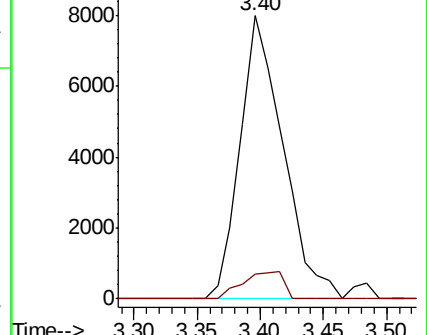
76 100

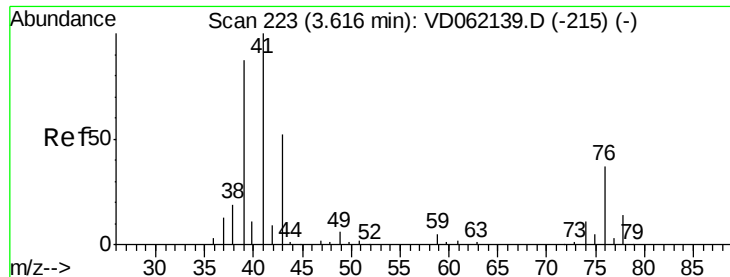
78 9.0 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

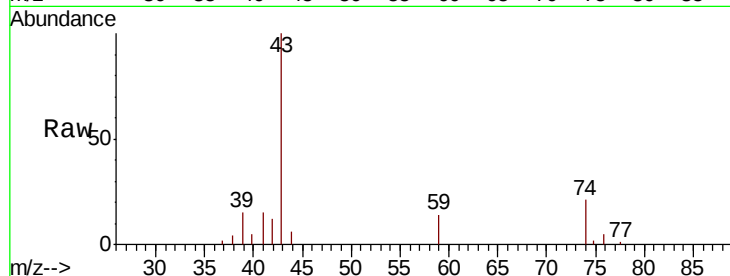




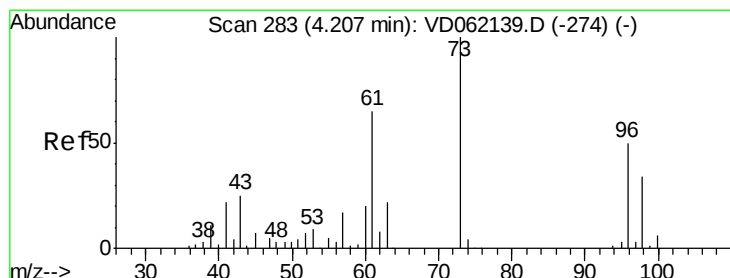
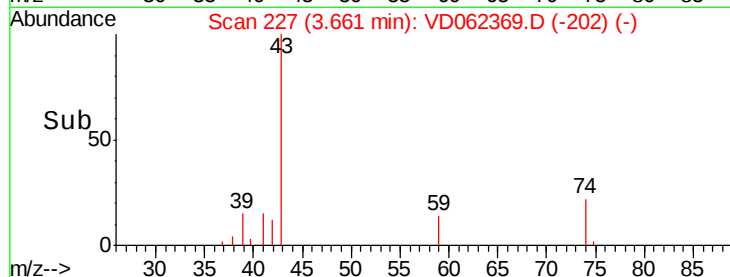
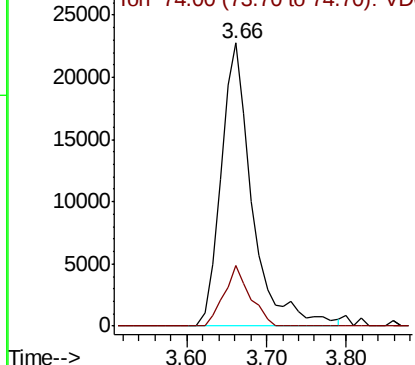
#18
Methyl Acetate
Concen: 652.987 ug/l
RT: 3.66 min Scan# 227
Delta R.T. 0.05 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 62040
Ion Ratio Lower Upper
43 100
74 21.3 18.0 27.0

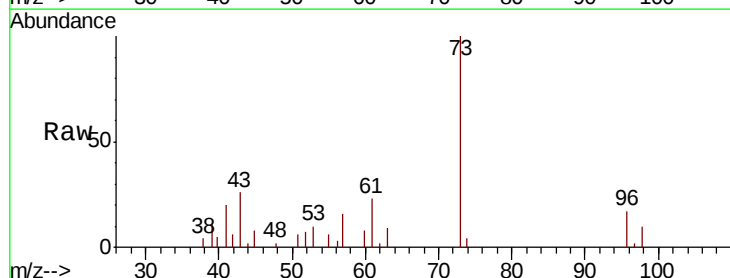


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC

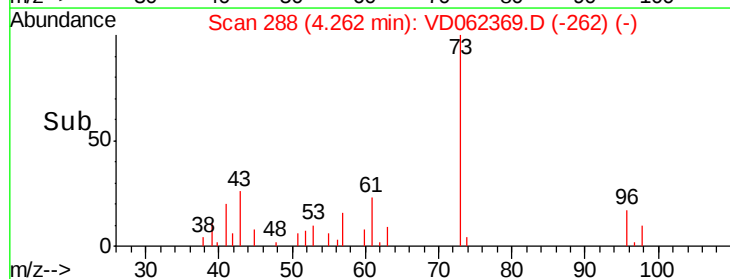
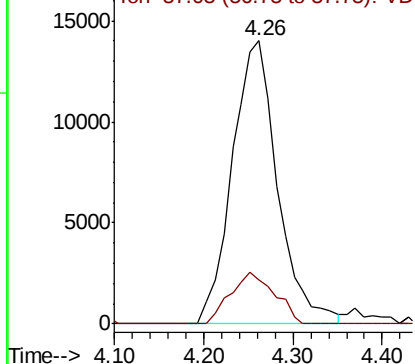


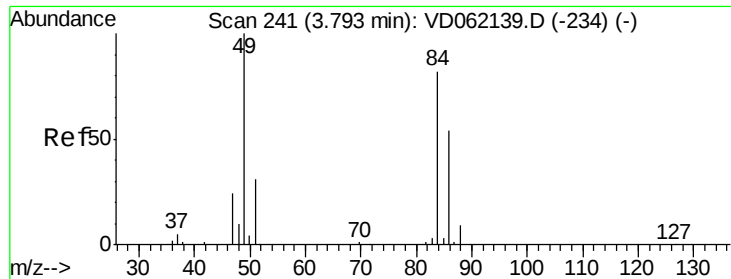
#19
Methyl tert-butyl Ether
Concen: 110.557 ug/l
RT: 4.26 min Scan# 288
Delta R.T. 0.05 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Tgt Ion: 73 Resp: 49530
Ion Ratio Lower Upper
73 100
57 15.6 16.3 24.5#



Abundance Ion 73.00 (72.70 to 73.70): VDC
Ion 57.05 (56.75 to 57.75): VDC

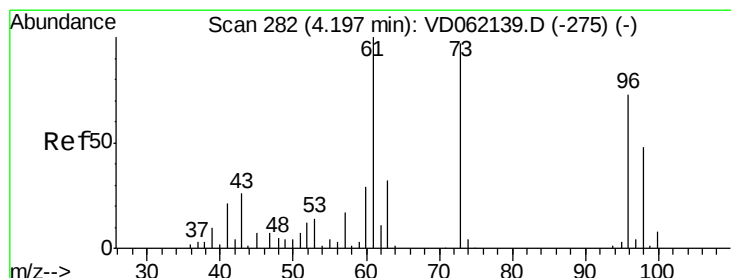
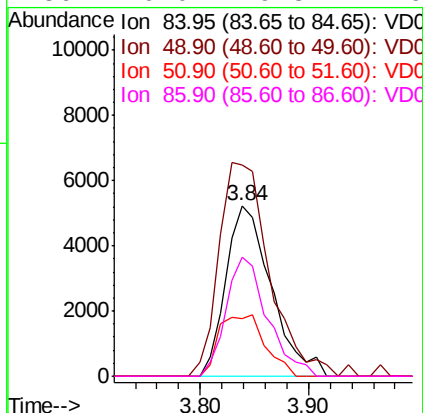
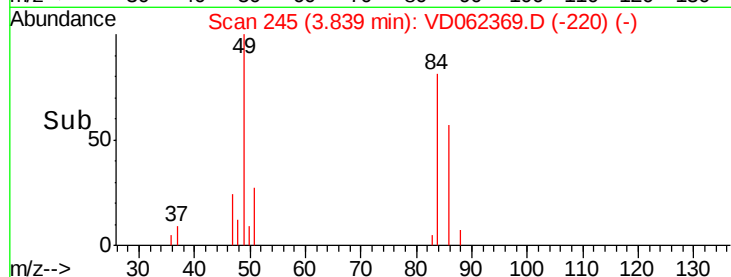
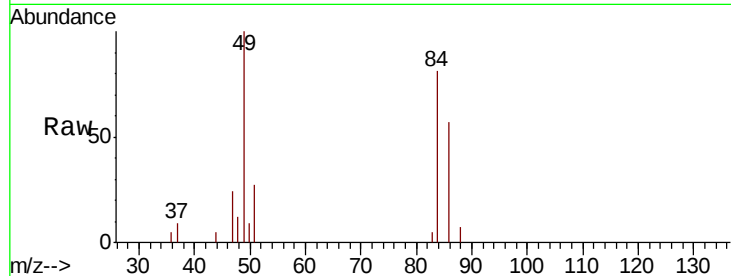




#20
Methylene Chloride
Concen: 68.466 ug/l
RT: 3.84 min Scan# 245
Delta R.T. 0.05 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

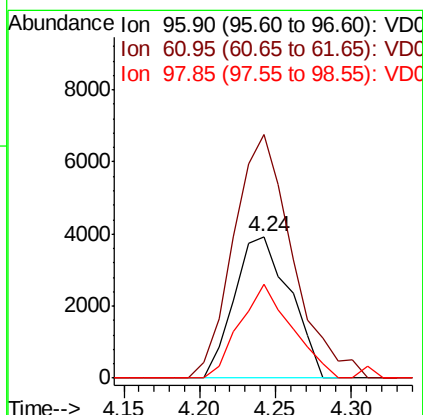
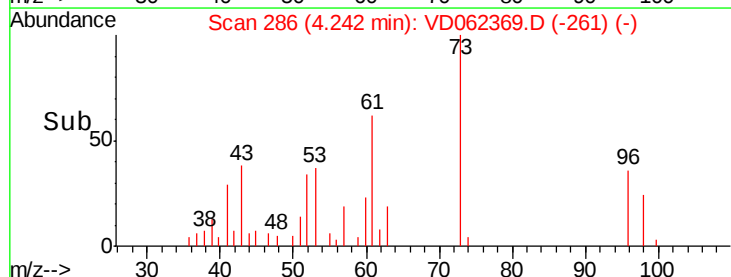
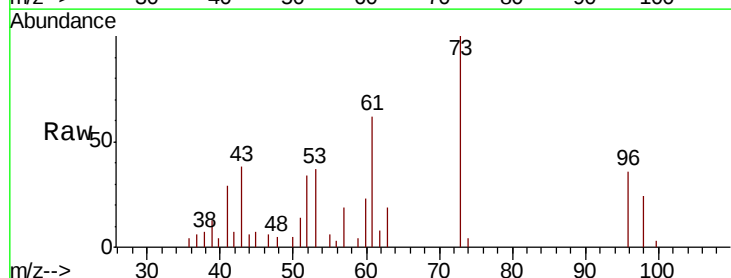
Instrument :
MSVOA_D
ClientSampleId :

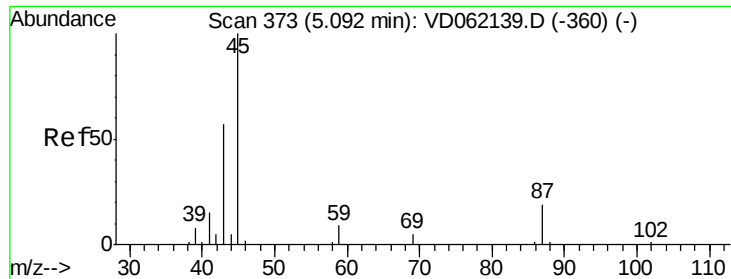
Tot Ion:	84	Resp:	15272
Ion	Ratio	Lower	Upper
84	100		
49	123.3	94.0	141.0
51	33.8	29.0	43.4
86	70.0	49.8	74.6



#21
trans-1,2-Dichloroethene
Concen: 43.206 ug/l
RT: 4.24 min Scan# 286
Delta R.T. 0.05 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Tgt Ion:	96	Resp:	10049
Ion	Ratio	Lower	Upper
96	100		
61	171.8	104.4	156.6#
98	66.0	51.8	77.8

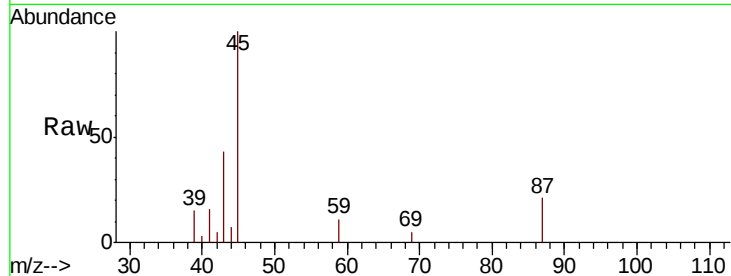




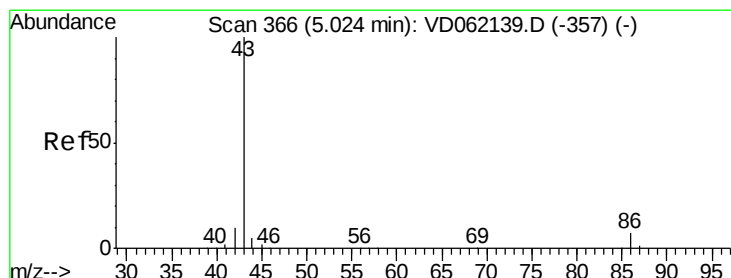
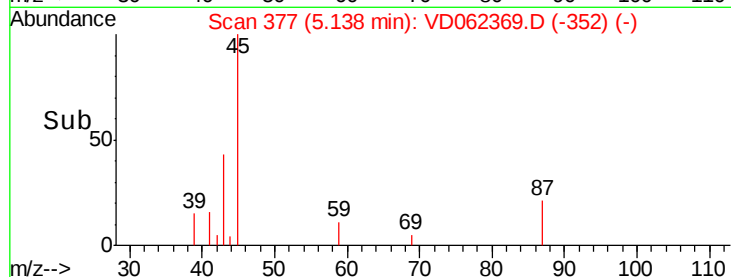
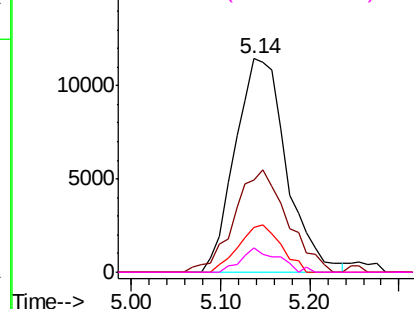
#22
Diisopropyl ether
Concen: 70.730 ug/l
RT: 5.14 min Scan# 377
Delta R.T. 0.05 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	45	Resp:	45741
Ion	Ratio	Lower	Upper
45	100		
43	42.9	46.2	69.2#
87	20.7	15.9	23.9
59	11.2	7.9	11.9

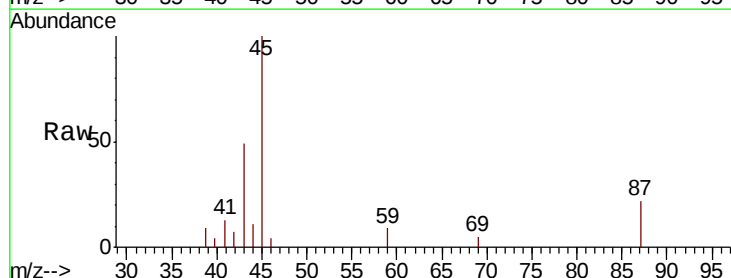


Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC

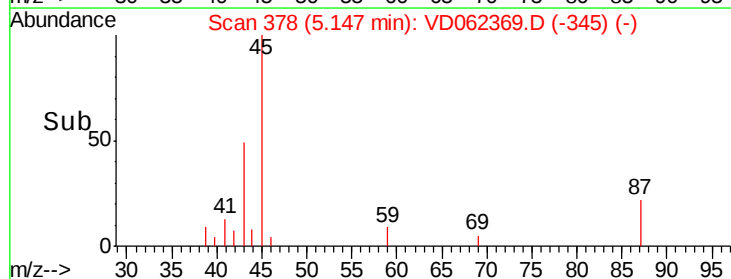
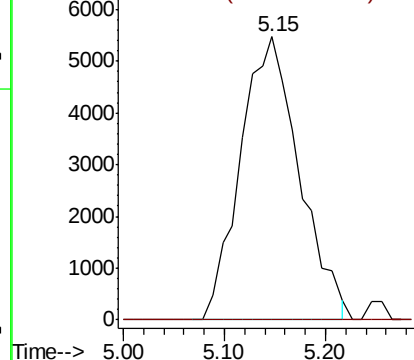


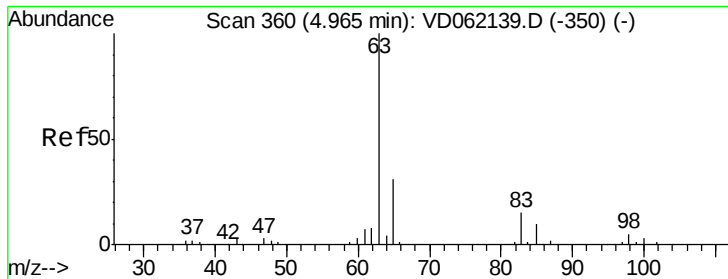
#23
Vinyl Acetate
Concen: 64.990 ug/l
RT: 5.15 min Scan# 378
Delta R.T. 0.12 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Tgt Ion:	43	Resp:	22175
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.4	9.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 86.00 (85.70 to 86.70): VDC





#24

1,1-Dichloroethane

Concen: 59.598 ug/l

RT: 5.01 min Scan# 364

Delta R.T. 0.05 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

ClientSampleId :

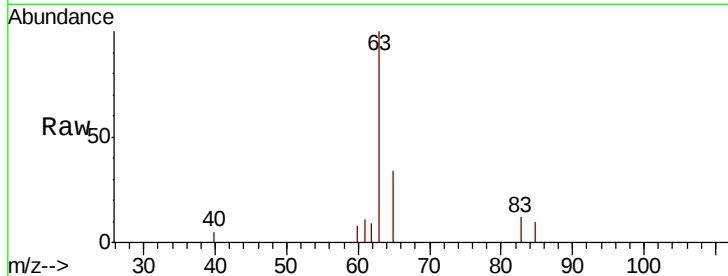
Tot Ion: 63 Resp: 23251

Ion Ratio Lower Upper

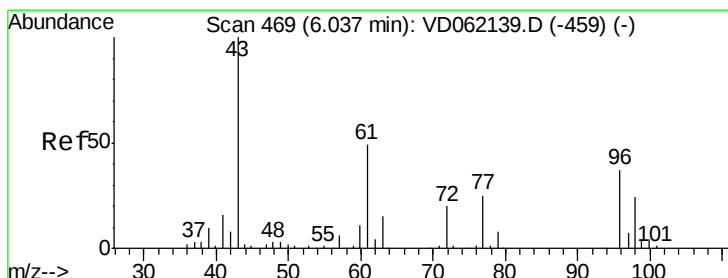
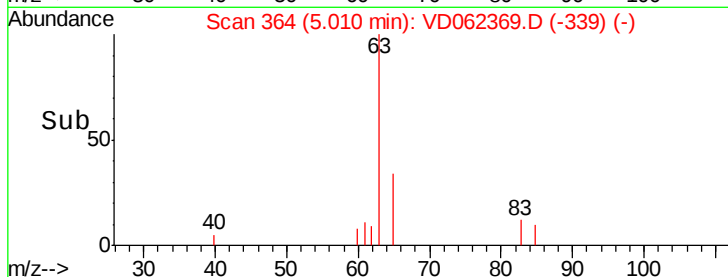
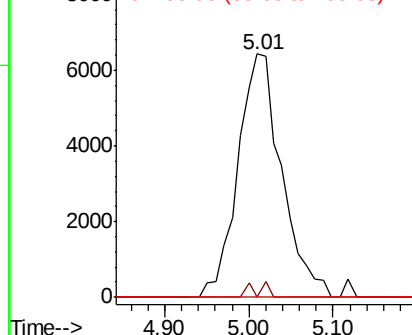
63 100

98 0.0 2.8 8.4#

100 0.0 1.8 5.5#



Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 97.95 (97.65 to 98.65): VDC
Ion 99.95 (99.65 to 100.65): VDC



#25

2-Butanone

Concen: 845.962 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.05 min

Lab File: VD062369.D

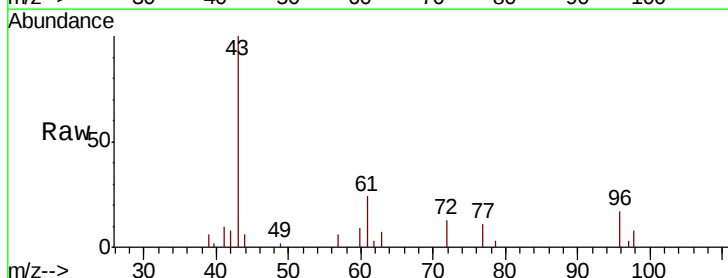
Acq: 15 May 2019 3:05

Tgt Ion: 43 Resp: 49295

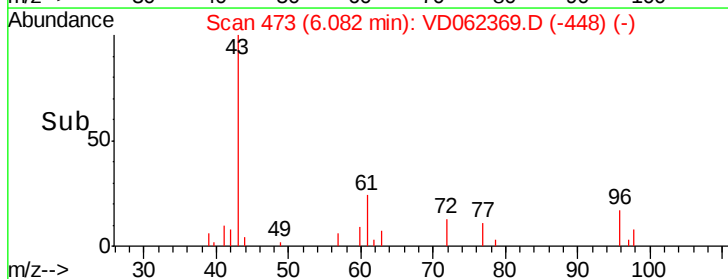
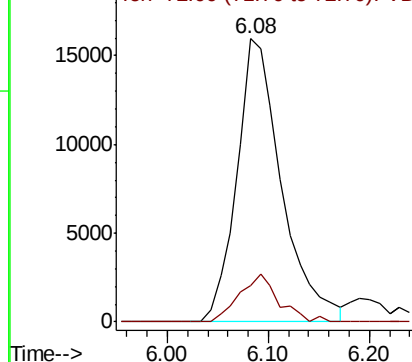
Ion Ratio Lower Upper

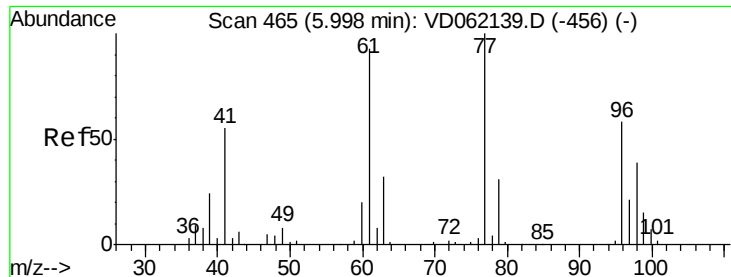
43 100

72 12.9 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC





#26

2,2-Dichloropropane

Concen: 44.023 ug/l

RT: 6.05 min Scan# 470

Delta R.T. 0.05 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

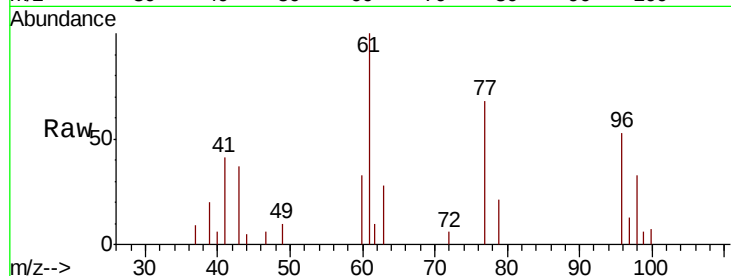
ClientSampleId :

Tot Ion: 77 Resp: 17108

Ion Ratio Lower Upper

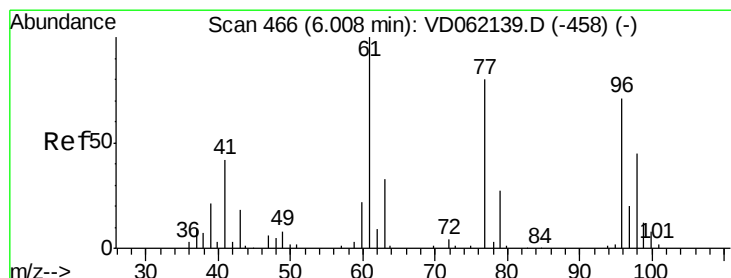
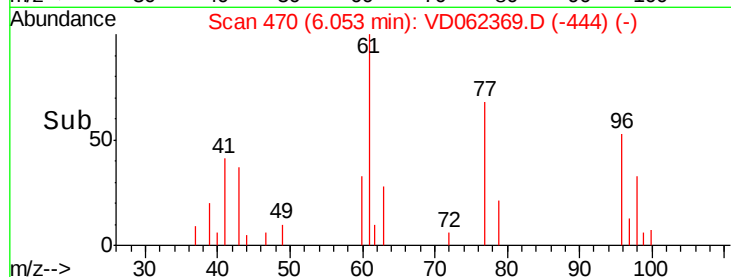
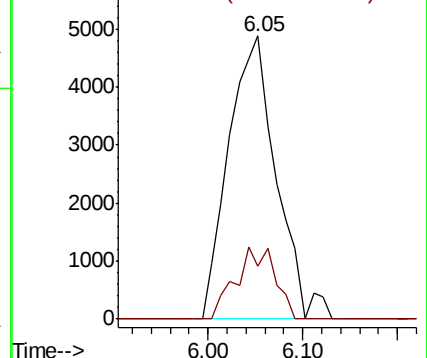
77 100

97 18.6 11.9 35.9



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: 58.010 ug/l

RT: 6.06 min Scan# 471

Delta R.T. 0.05 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

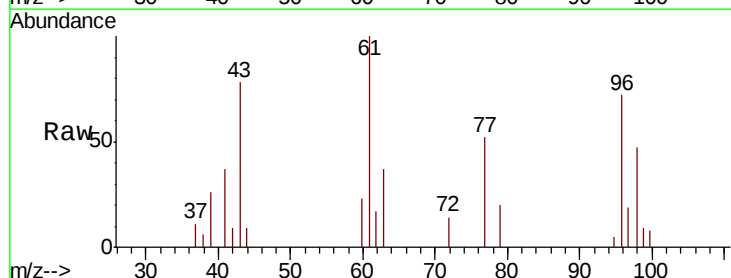
Tgt Ion: 96 Resp: 15102

Ion Ratio Lower Upper

96 100

61 138.7 0.0 279.8

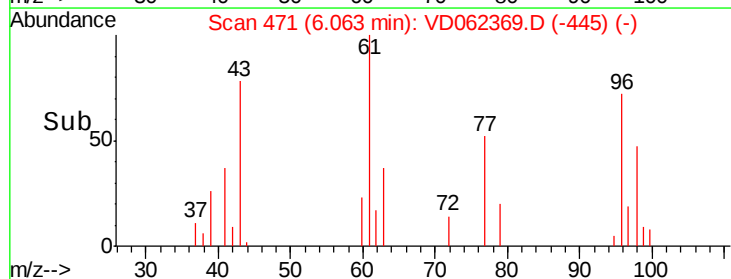
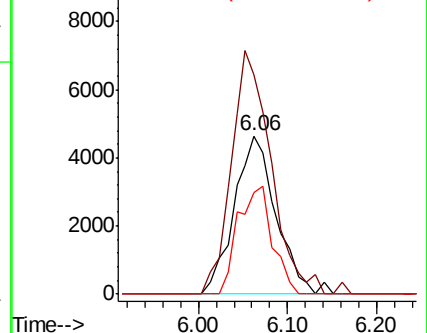
98 64.6 0.0 136.0

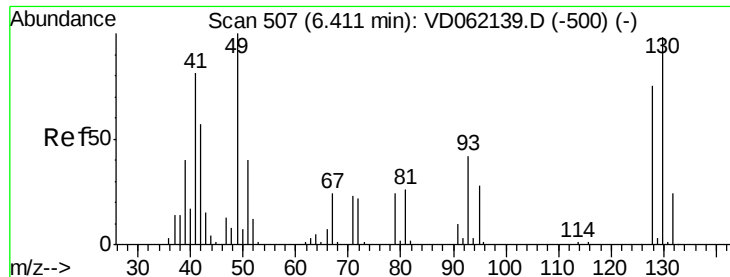


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#28

Bromochloromethane

Concen: 109.929 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.05 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :
MSVOA_D
ClientSampleId :

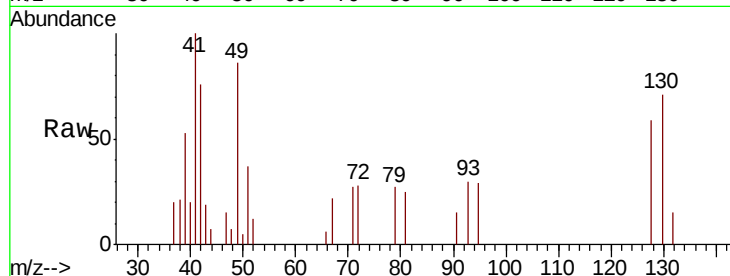
Tot Ion: 49 Resp: 16873

Ion Ratio Lower Upper

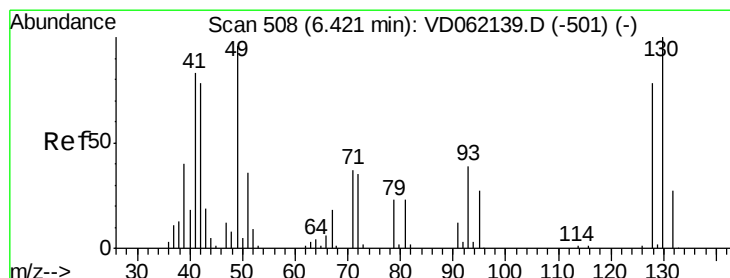
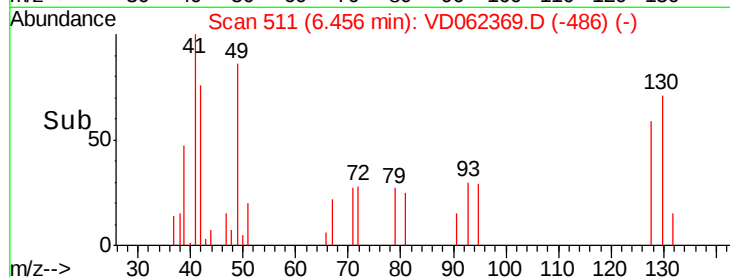
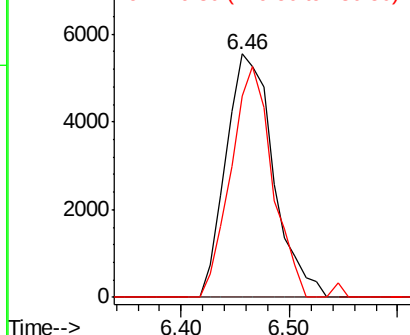
49 100

129 0.0 0.0 6.6

130 82.9 86.7 130.1#



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



#29

Tetrahydrofuran

Concen: 1008.757 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.05 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

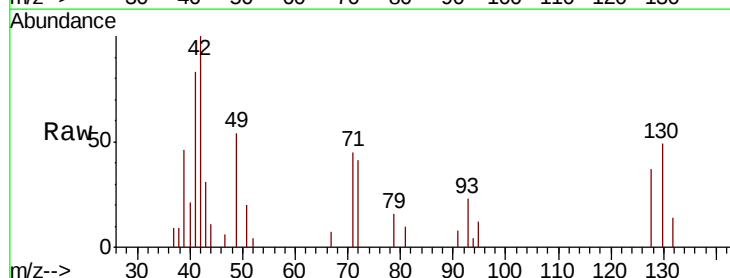
Tgt Ion: 42 Resp: 27084

Ion Ratio Lower Upper

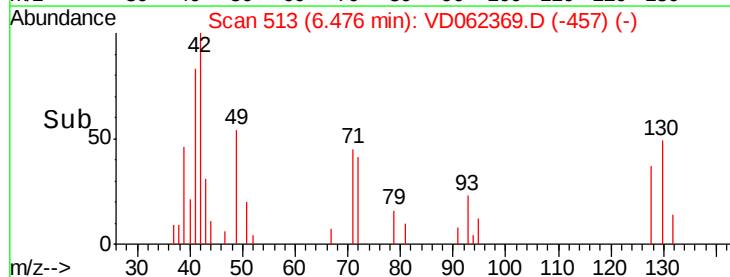
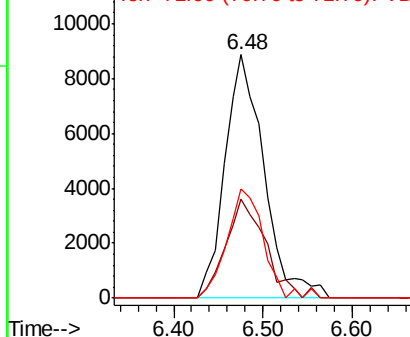
42 100

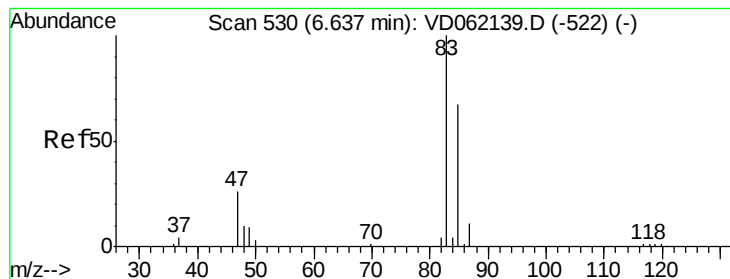
72 41.2 37.8 56.6

71 42.2 36.7 55.1



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: 72.511 ug/l

RT: 6.69 min Scan# 535

Delta R.T. 0.05 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

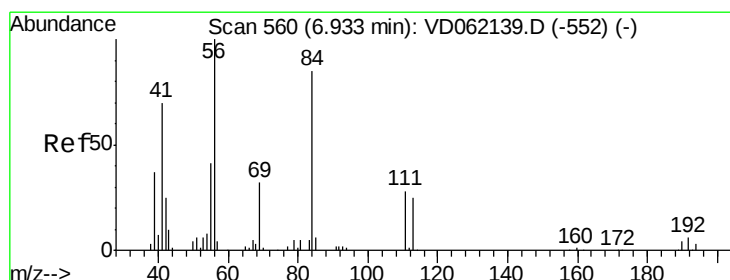
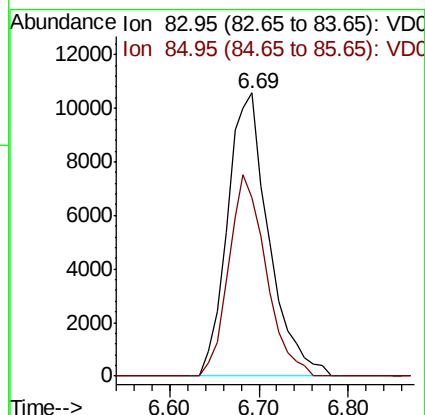
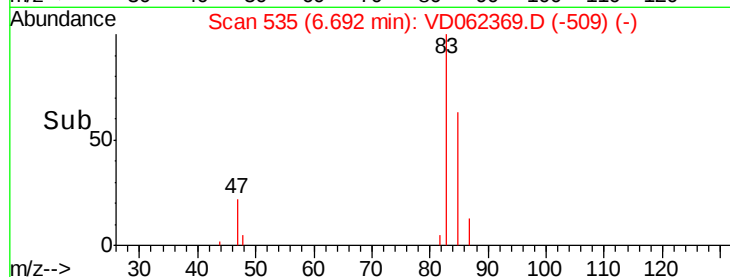
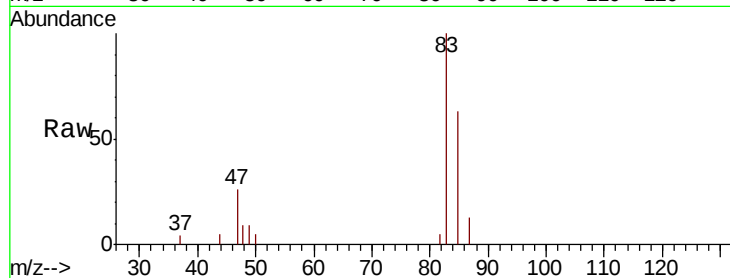
ClientSampled :

Tot Ion: 83 Resp: 34093

Ion Ratio Lower Upper

83 100

85 62.9 51.7 77.5



#31

Cyclohexane

Concen: 26.474 ug/l

RT: 6.97 min Scan# 563

Delta R.T. 0.04 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

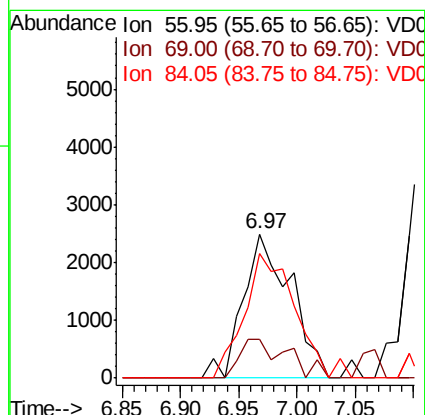
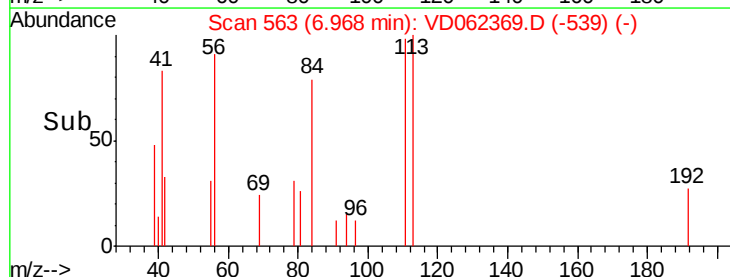
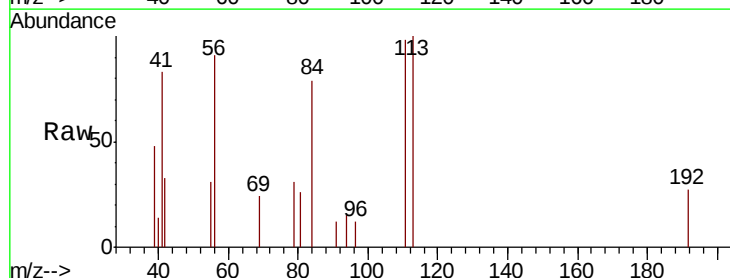
Tgt Ion: 56 Resp: 7076

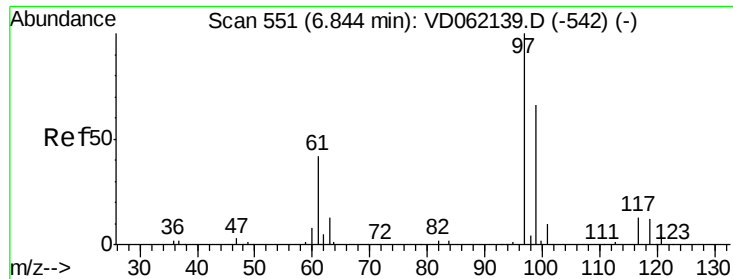
Ion Ratio Lower Upper

56 100

69 26.9 25.8 38.6

84 86.5 72.2 108.4





#32

1,1,1-Trichloroethane

Concen: 55.267 ug/l

RT: 6.89 min Scan# 555

Delta R.T. 0.05 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

ClientSampleId :

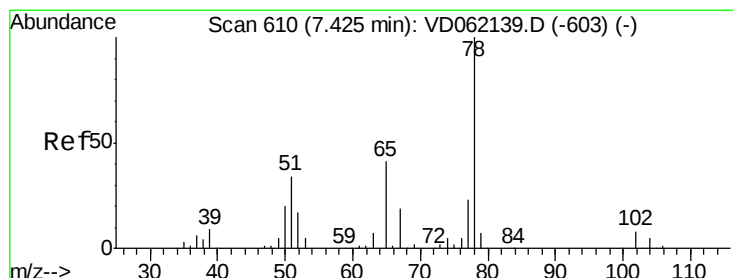
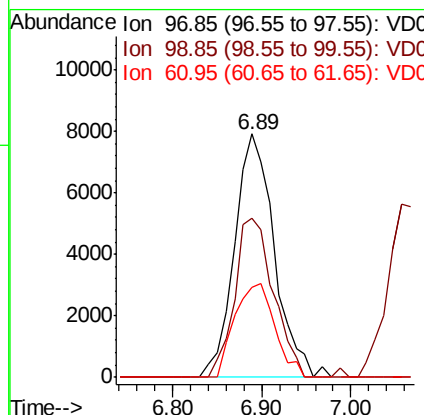
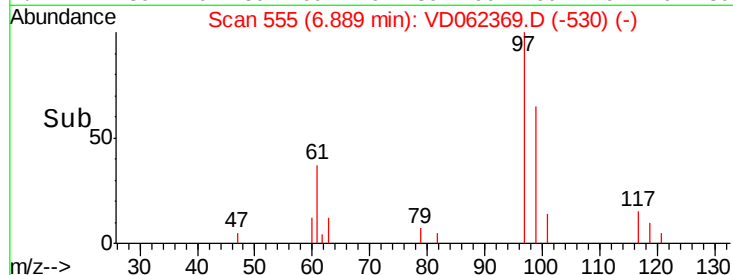
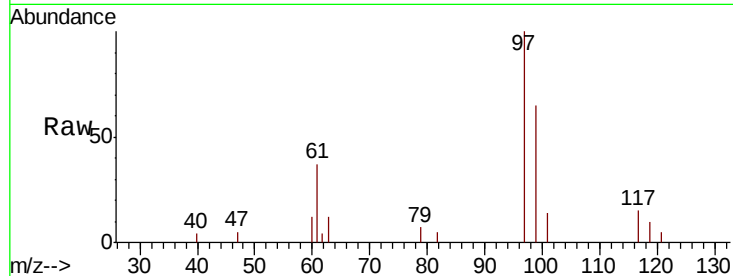
Tot Ion: 97 Resp: 24561

Ion Ratio Lower Upper

97 100

99 65.2 52.2 78.2

61 36.9 32.4 48.6



#33

1,2-Dichloroethane-d4

Concen: 99.406 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.05 min

Lab File: VD062369.D

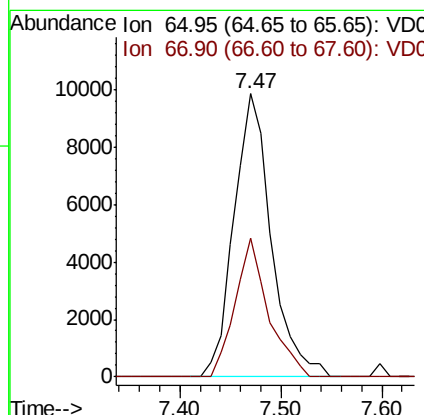
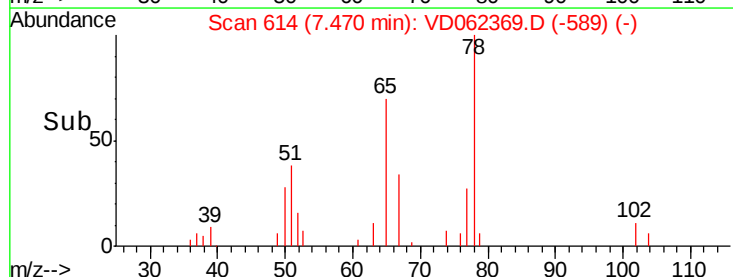
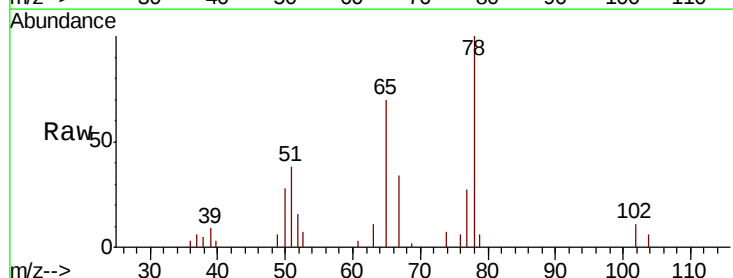
Acq: 15 May 2019 3:05

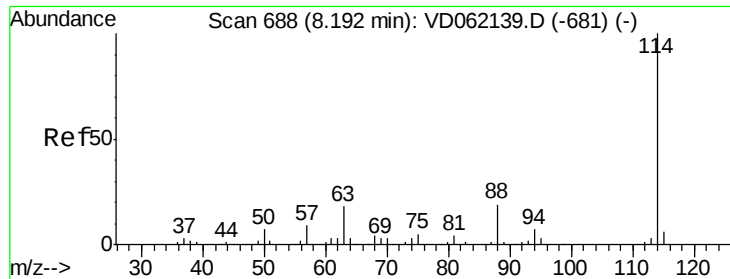
Tgt Ion: 65 Resp: 25323

Ion Ratio Lower Upper

65 100

67 48.9 0.0 98.0

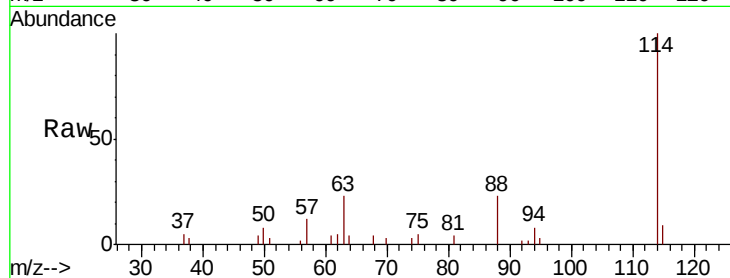




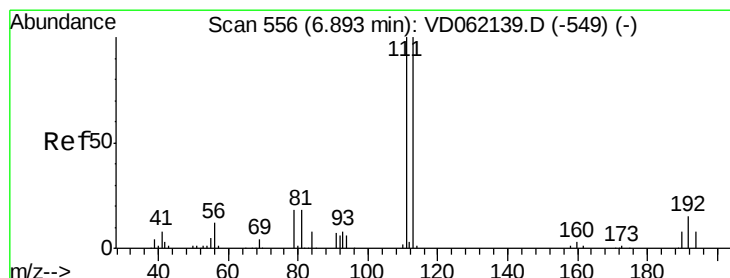
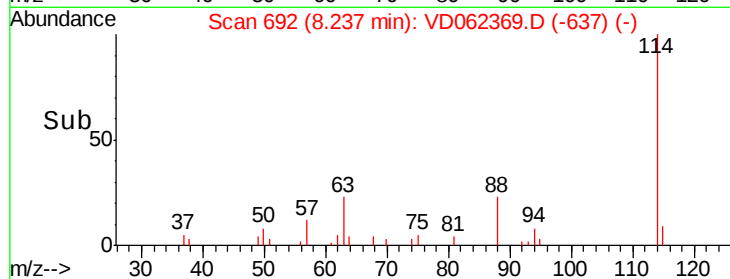
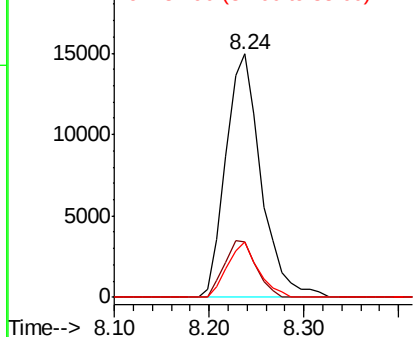
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 692
 Delta R.T. 0.05 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 38650
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 32.4
 88 22.5 0.0 33.6

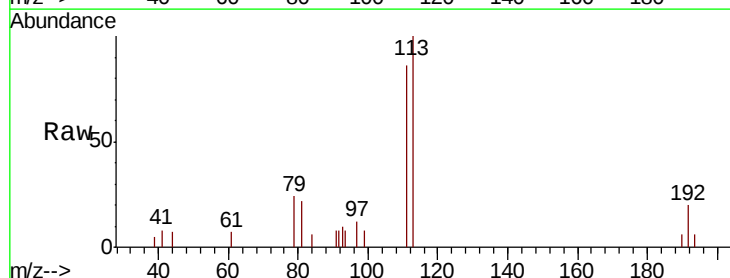


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

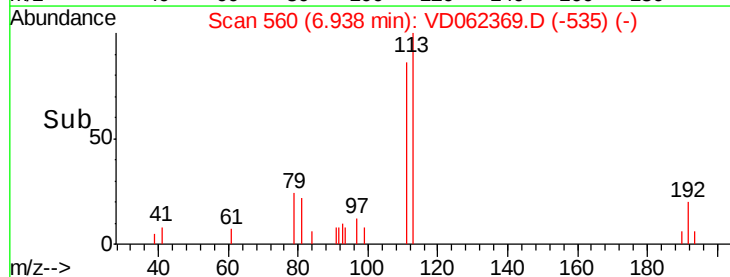
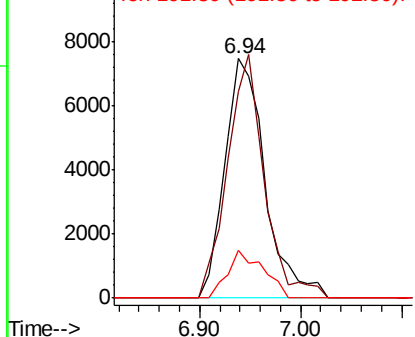


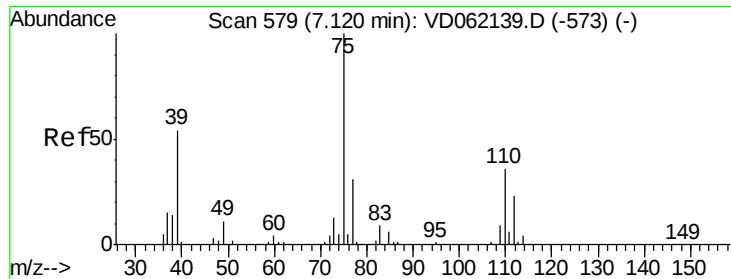
#35
 Dibromofluoromethane
 Concen: 64.805 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.05 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Tgt Ion:113 Resp: 20782
 Ion Ratio Lower Upper
 113 100
 111 86.3 78.5 117.7
 192 20.1 13.0 19.4#



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

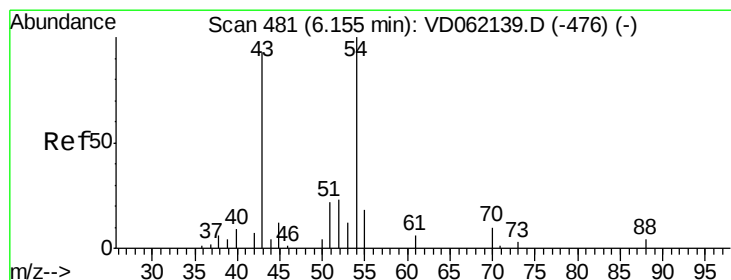
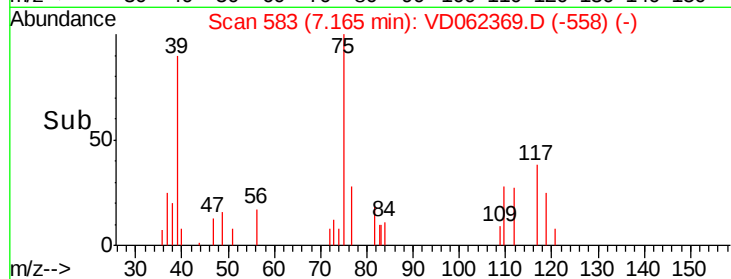
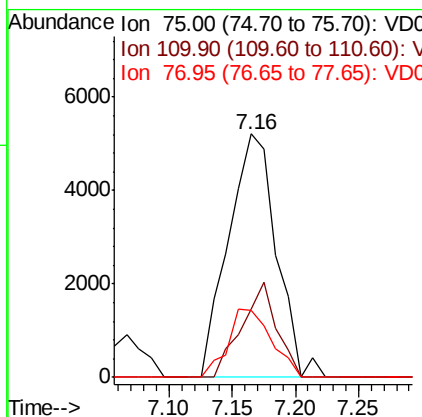
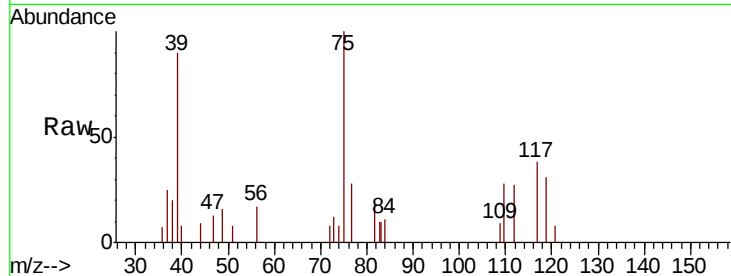




#36
 1,1-Dichloropropene
 Concen: 43.387 ug/l
 RT: 7.16 min Scan# 583
 Delta R.T. 0.05 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

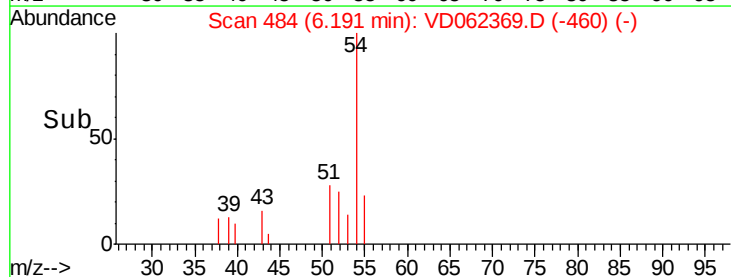
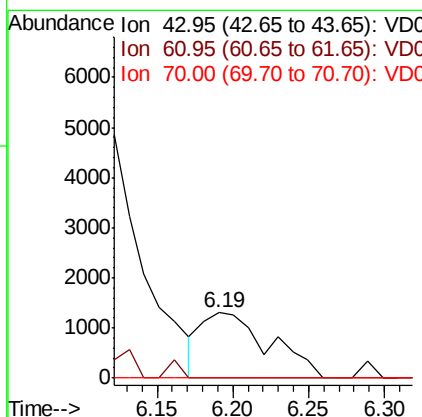
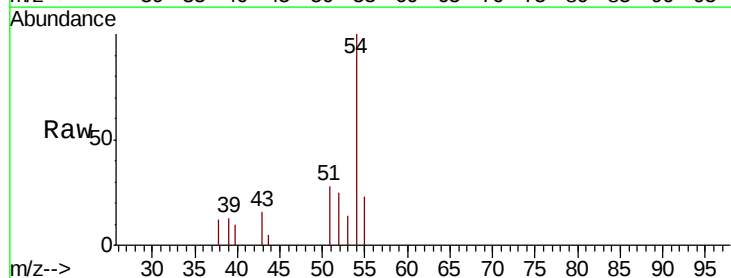
Instrument :
 MSVOA_D
 ClientSampleId :

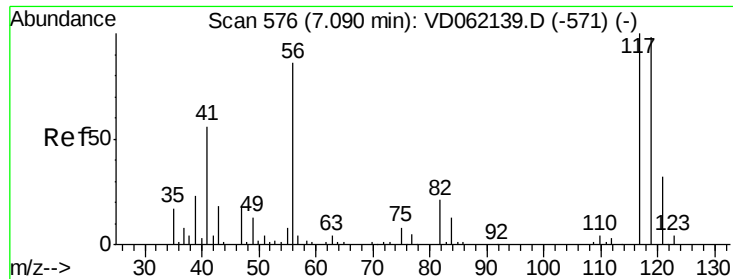
Tot Ion	Ratio	Lower	Upper
75	100		
110	28.1	19.1	57.1
77	27.6	25.6	38.4



#37
 Ethyl Acetate
 Concen: 30.300 ug/l
 RT: 6.19 min Scan# 484
 Delta R.T. 0.04 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	14.7	22.1#
70	0.0	7.8	11.6#





#38

Carbon Tetrachloride

Concen: 47.637 ug/l

RT: 7.14 min Scan# 580

Delta R.T. 0.05 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

ClientSampleId :

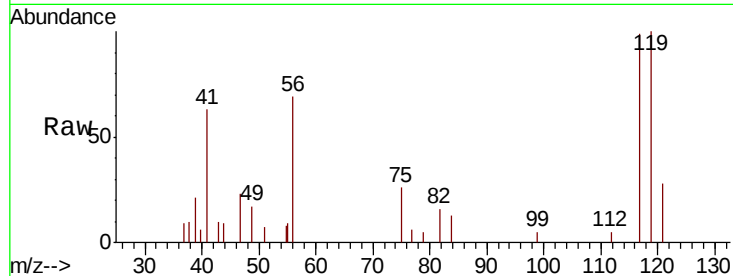
Tot Ion:117 Resp: 20894

Ion Ratio Lower Upper

117 100

119 101.1 75.8 113.8

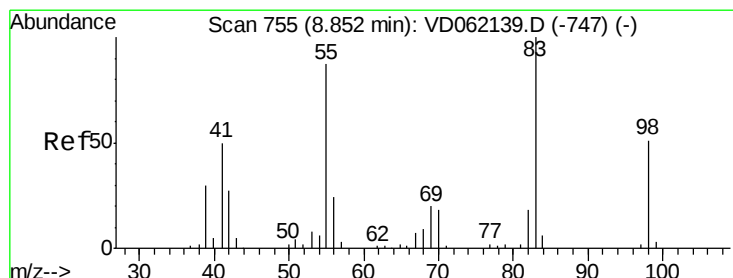
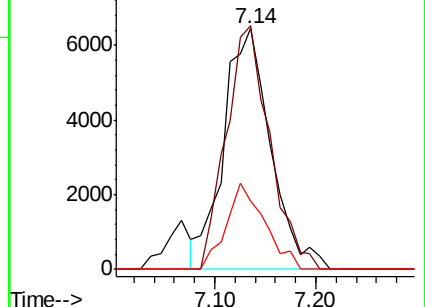
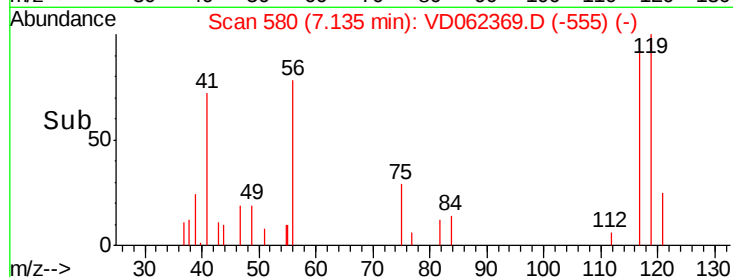
121 28.2 25.9 38.9



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#39

Methylcyclohexane

Concen: 15.822 ug/l

RT: 8.89 min Scan# 758

Delta R.T. 0.04 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

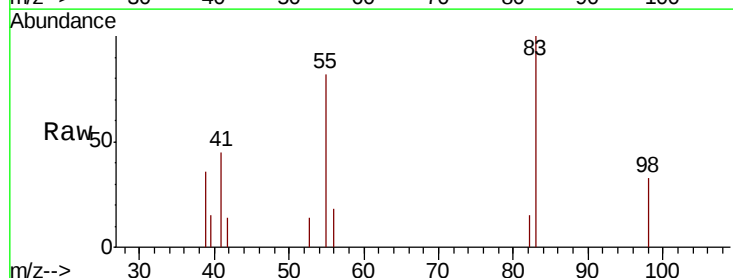
Tgt Ion: 83 Resp: 4804

Ion Ratio Lower Upper

83 100

55 81.9 68.2 102.4

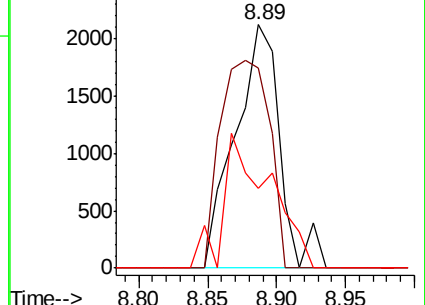
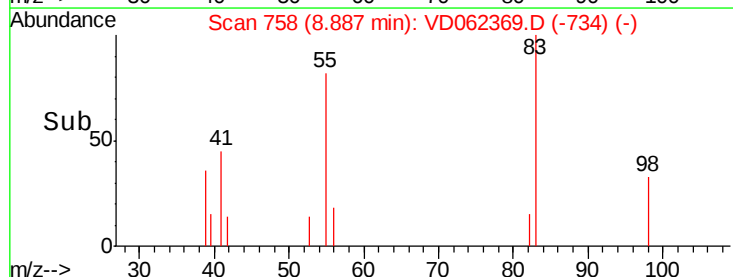
98 32.9 38.2 57.4#

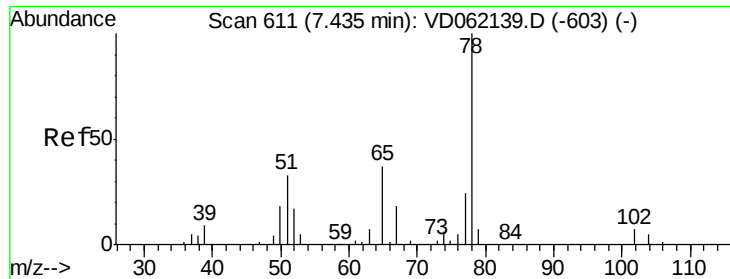


Abundance Ion 83.05 (82.75 to 83.75): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.05 (97.75 to 98.75): V





#40

Benzene

Concen: 50.566 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.04 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

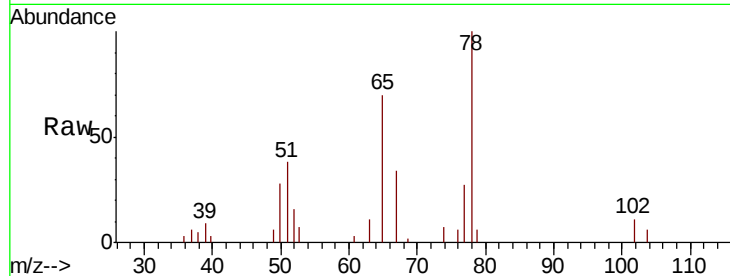
ClientSampleId :

Tot Ion: 78 Resp: 36184

Ion Ratio Lower Upper

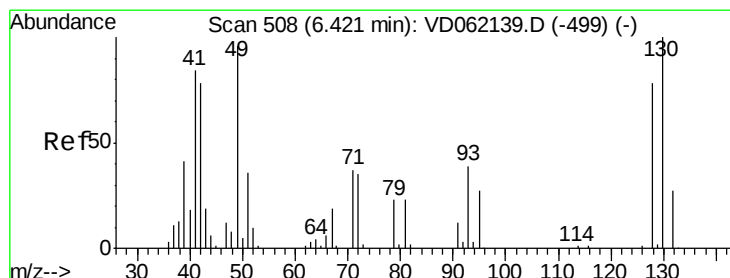
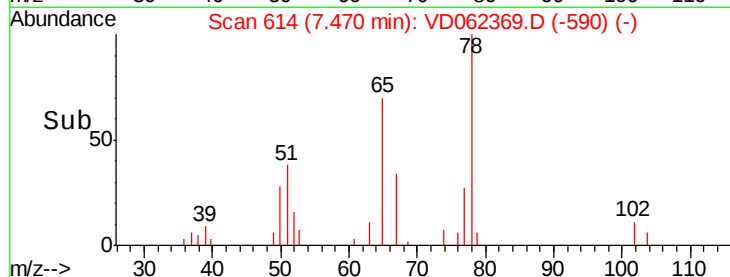
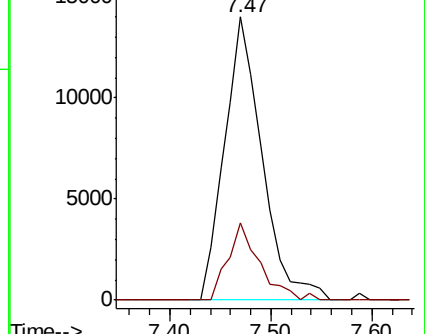
78 100

77 27.4 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC



#41

Methacrylonitrile

Concen: 165.669 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.05 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Tgt Ion: 41 Resp: 27208

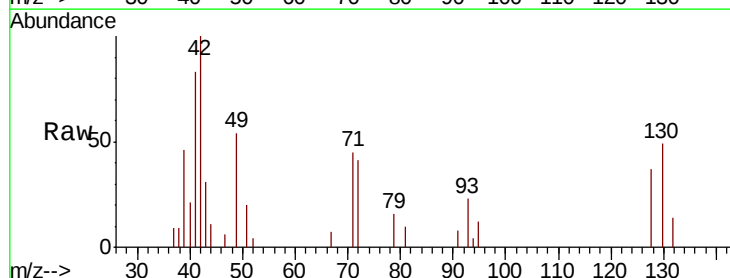
Ion Ratio Lower Upper

41 100

39 55.2 34.1 51.1#

67 8.0 23.8 35.6#

52 5.3 8.8 13.2#

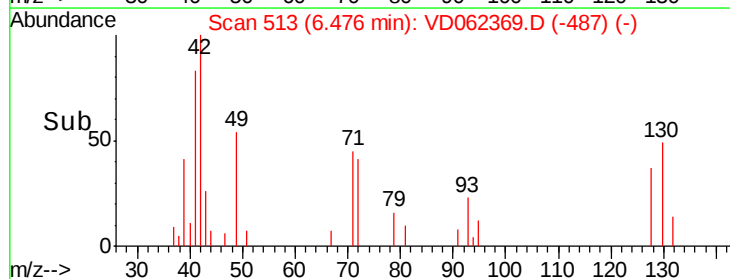
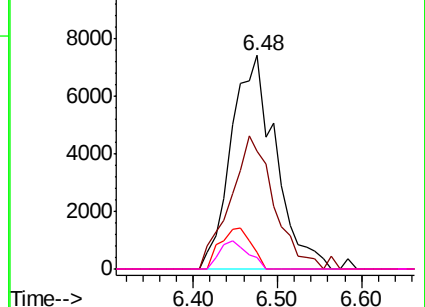


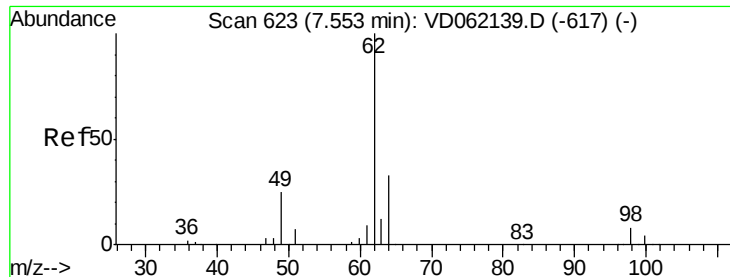
Abundance Ion 40.95 (40.65 to 41.65): VDC

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

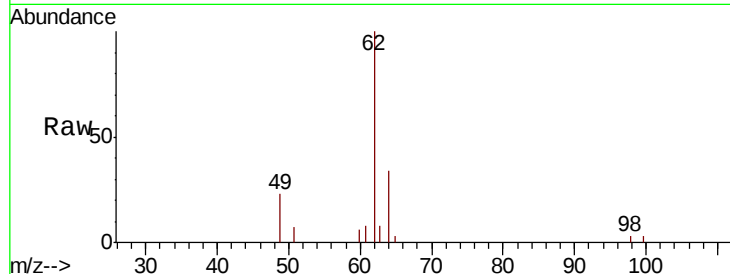




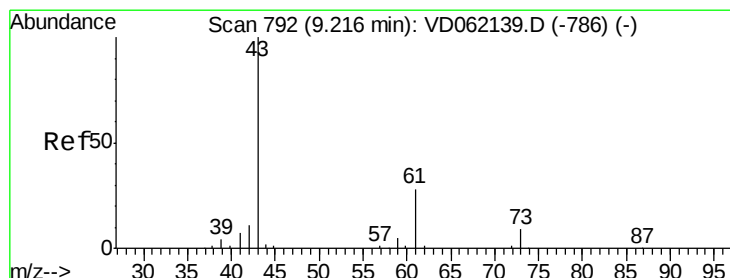
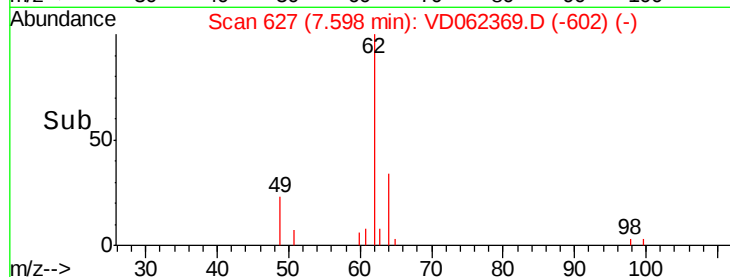
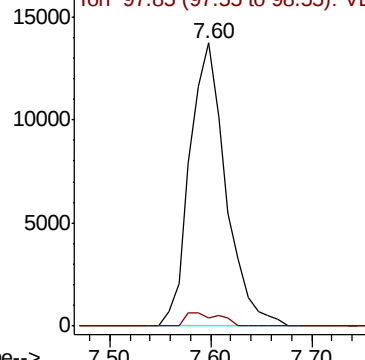
#42
 1,2-Dichloroethane
 Concen: 112.913 ug/l
 RT: 7.60 min Scan# 627
 Delta R.T. 0.05 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 62 Resp: 34233
 Ion Ratio Lower Upper
 62 100
 98 3.1 0.0 17.8

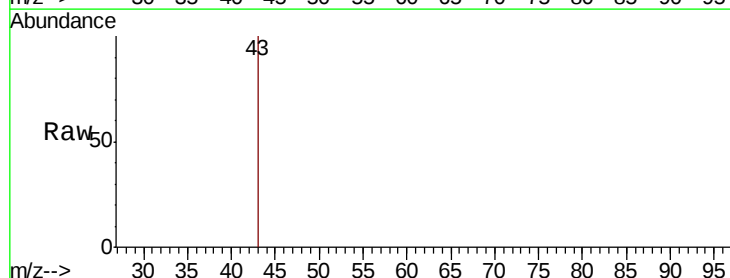


Abundance Ion 61.95 (61.65 to 62.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC

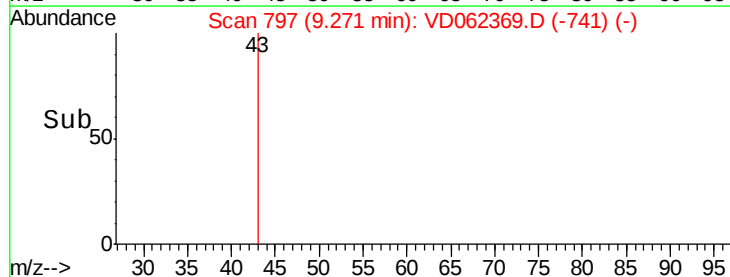
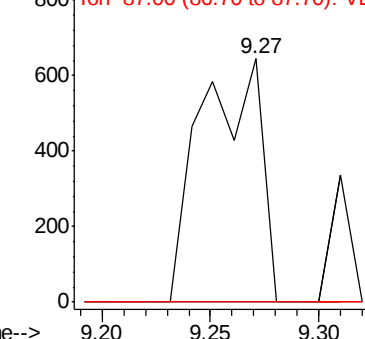


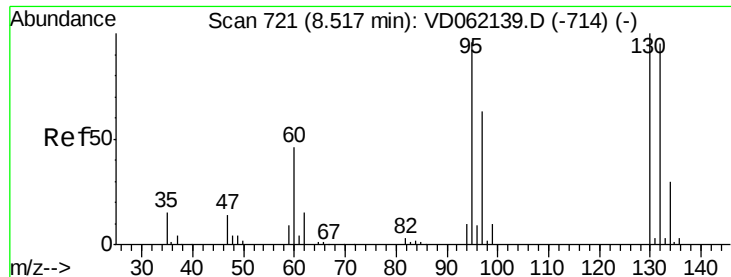
#43
 Isopropyl Acetate
 Concen: 6.579 ug/l
 RT: 9.27 min Scan# 797
 Delta R.T. 0.05 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Tgt Ion: 43 Resp: 1254
 Ion Ratio Lower Upper
 43 100
 61 0.0 25.1 37.7#
 87 0.0 0.0 0.0



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: 44.012 ug/l

RT: 8.56 min Scan# 725

Delta R.T. 0.05 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

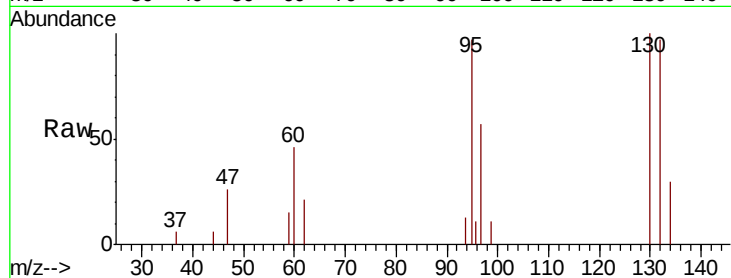
ClientSampleId :

Tot Ion:130 Resp: 12001

Ion Ratio Lower Upper

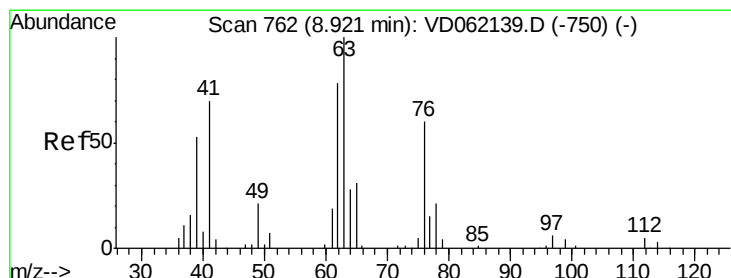
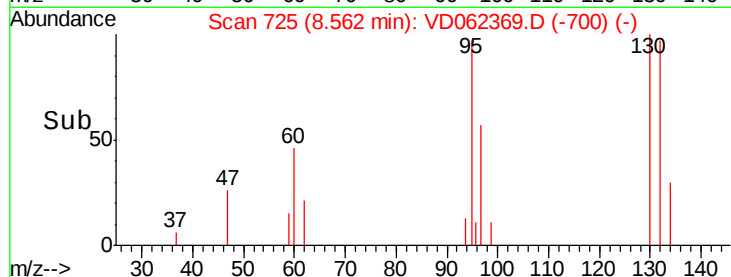
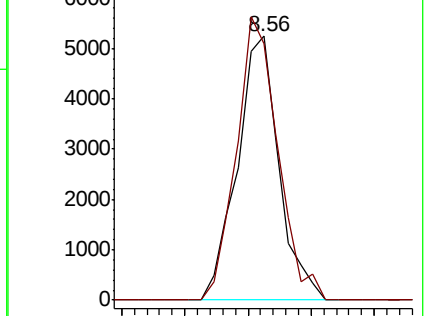
130 100

95 97.2 0.0 174.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#45

1,2-Dichloropropane

Concen: 56.186 ug/l

RT: 8.96 min Scan# 765

Delta R.T. 0.04 min

Lab File: VD062369.D

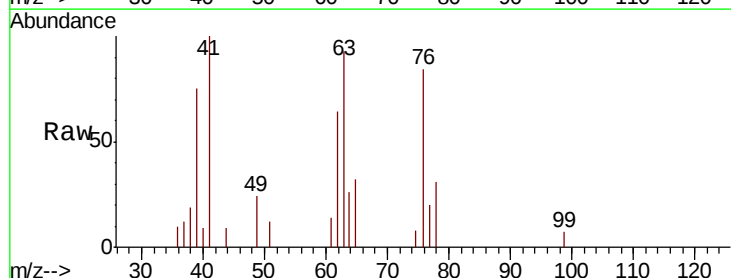
Acq: 15 May 2019 3:05

Tgt Ion: 63 Resp: 9945

Ion Ratio Lower Upper

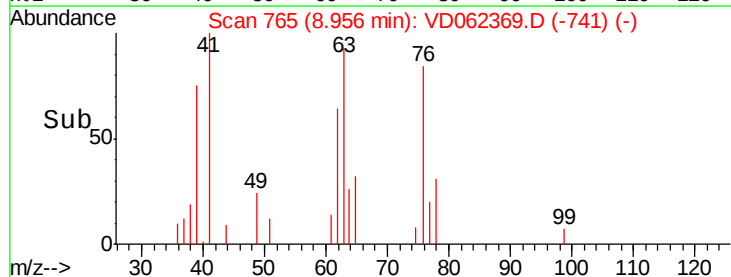
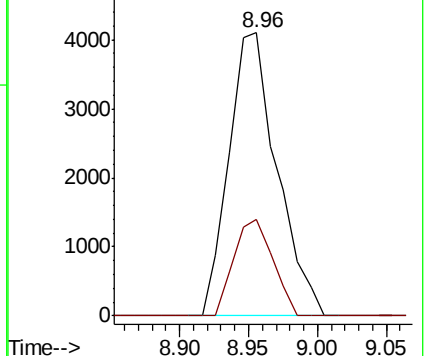
63 100

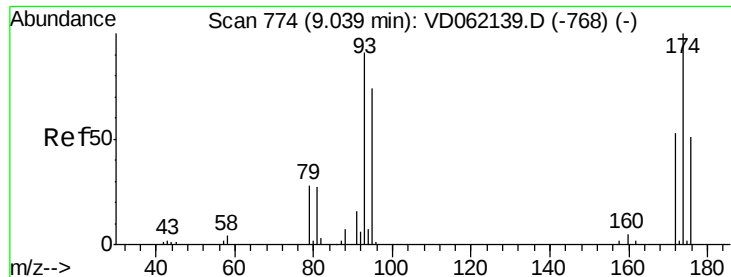
65 34.1 23.8 35.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

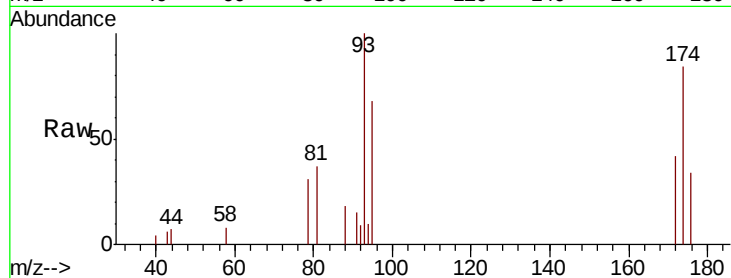




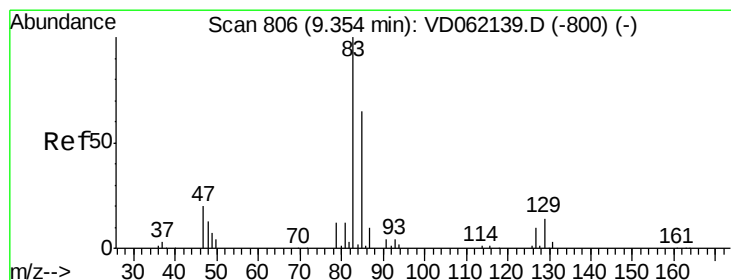
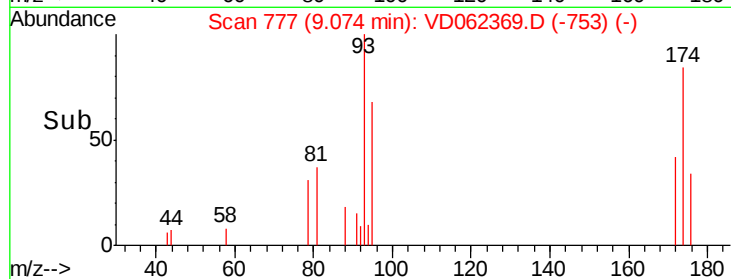
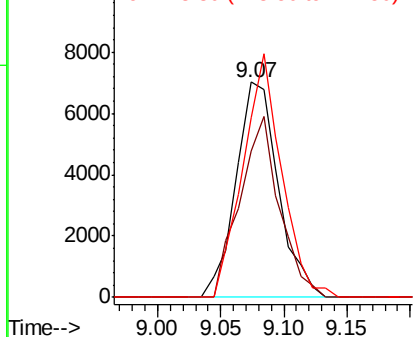
#46
 Dibromomethane
 Concen: 113.434 ug/l
 RT: 9.07 min Scan# 777
 Delta R.T. 0.04 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 93 Resp: 16327
 Ion Ratio Lower Upper
 93 100
 95 67.8 64.8 97.2
 174 83.7 79.3 118.9

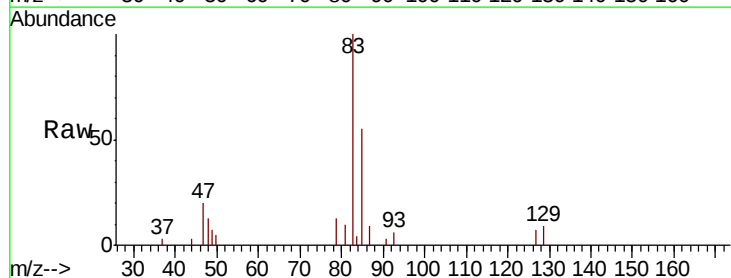


Abundance Ion 92.90 (92.60 to 93.60): VDC
 Ion 94.90 (94.60 to 95.60): VDC
 Ion 173.80 (173.50 to 174.50): V

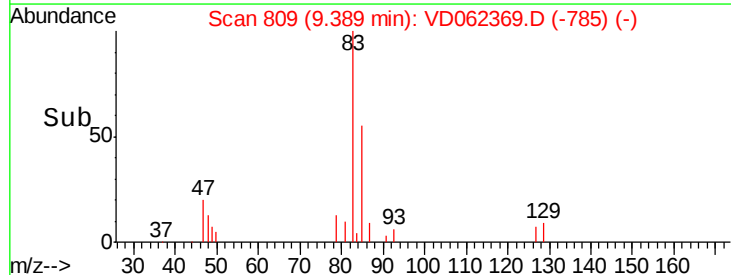
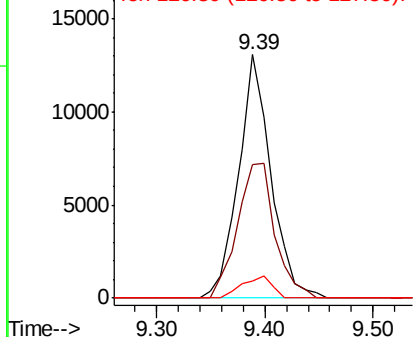


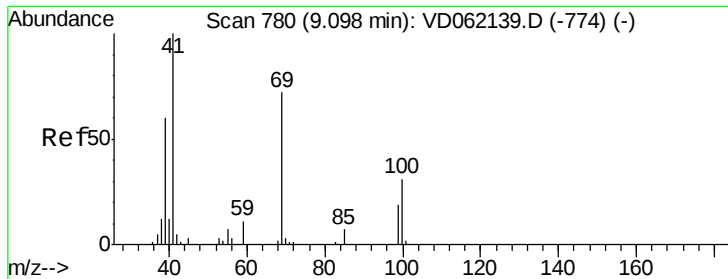
#47
 Bromodichloromethane
 Concen: 77.156 ug/l
 RT: 9.39 min Scan# 809
 Delta R.T. 0.04 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Tgt Ion: 83 Resp: 27164
 Ion Ratio Lower Upper
 83 100
 85 55.0 50.9 76.3
 127 7.2 8.1 12.1#



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): V





#48

Methyl methacrylate

Concen: 184.968 ug/l

RT: 9.13 min Scan# 783

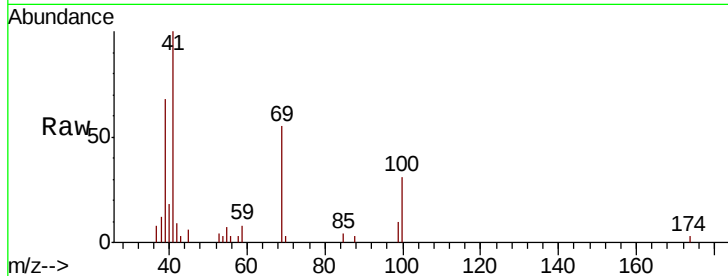
Delta R.T. 0.04 min

Lab File: VD062369.D

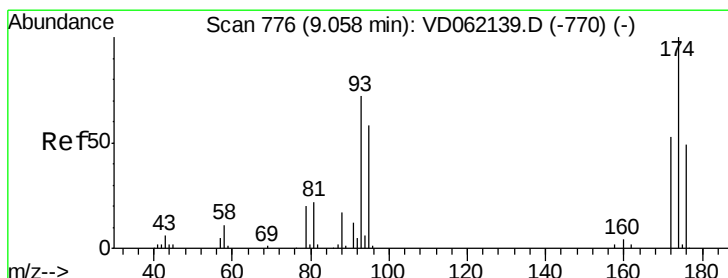
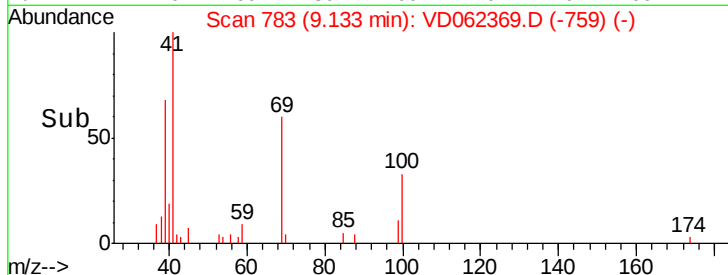
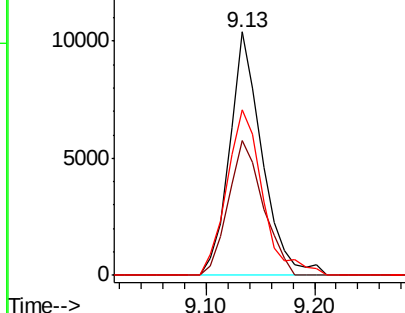
Acq: 15 May 2019 3:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	41	Resp:	21715
Ion	Ratio	Lower	Upper
41	100		
69	55.5	64.2	96.2#
39	67.8	46.8	70.2



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: 4313.646 ug/l

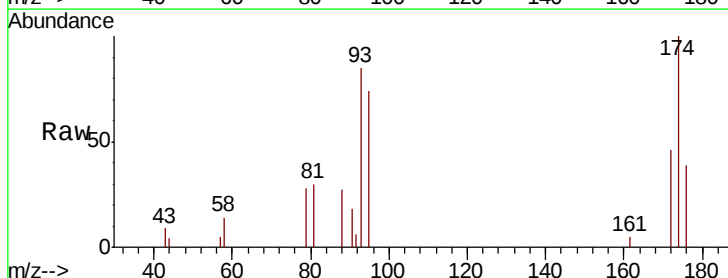
RT: 9.08 min Scan# 778

Delta R.T. 0.03 min

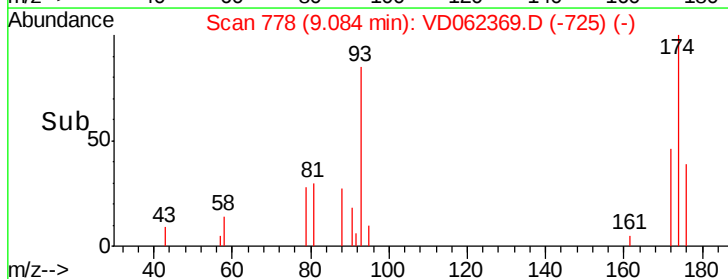
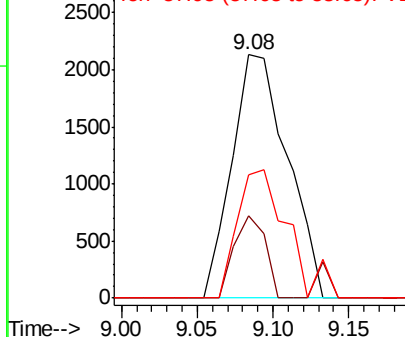
Lab File: VD062369.D

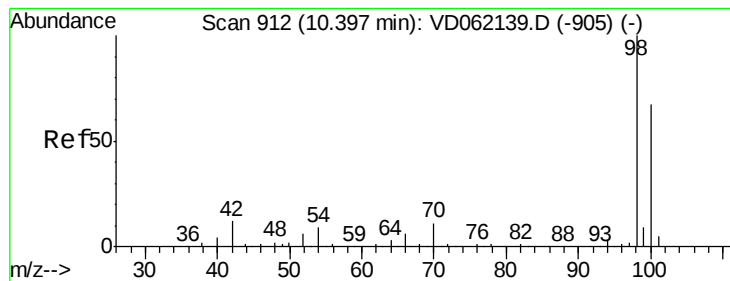
Acq: 15 May 2019 3:05

Tgt Ion:	88	Resp:	5464
Ion	Ratio	Lower	Upper
88	100		
43	33.8	23.4	35.0
58	50.9	44.0	66.0



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: 44.042 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.03 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

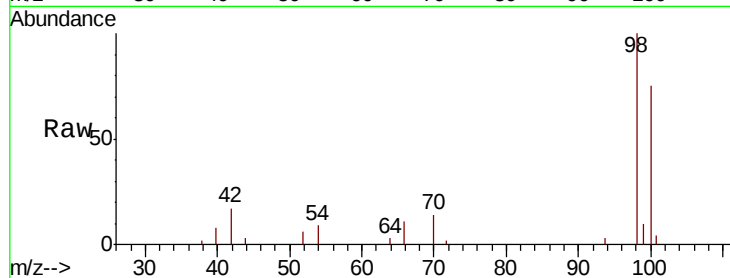
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 34053

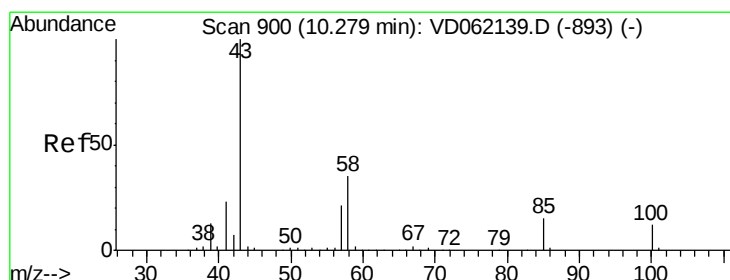
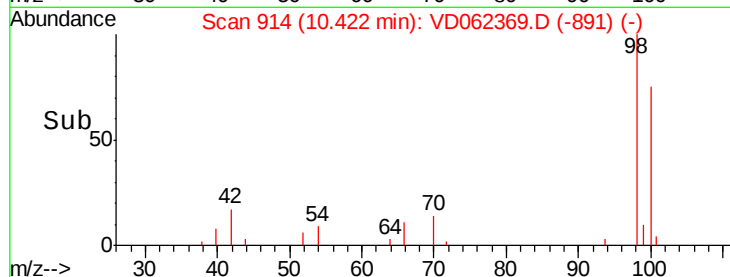
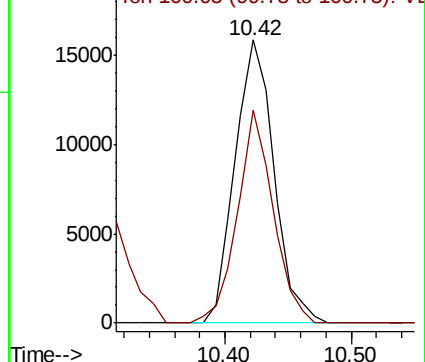
Ion Ratio Lower Upper

98 100

100 75.2 53.8 80.8



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: 776.395 ug/l

RT: 10.31 min Scan# 903

Delta R.T. 0.04 min

Lab File: VD062369.D

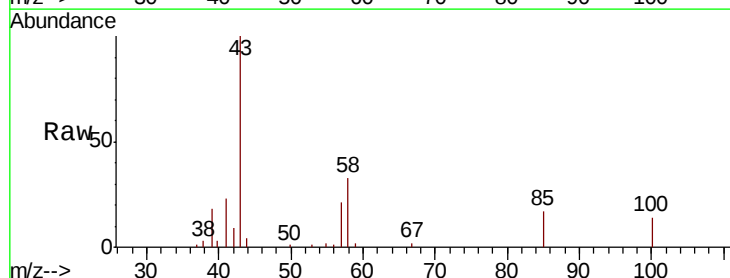
Acq: 15 May 2019 3:05

Tgt Ion: 43 Resp: 95121

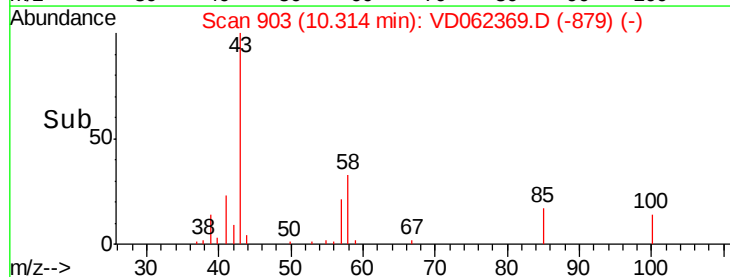
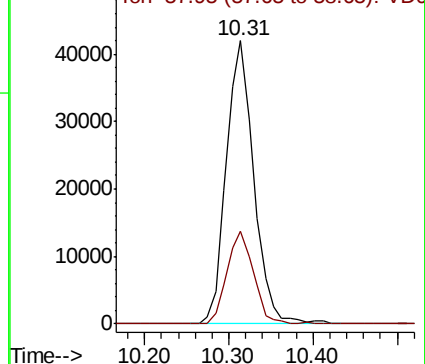
Ion Ratio Lower Upper

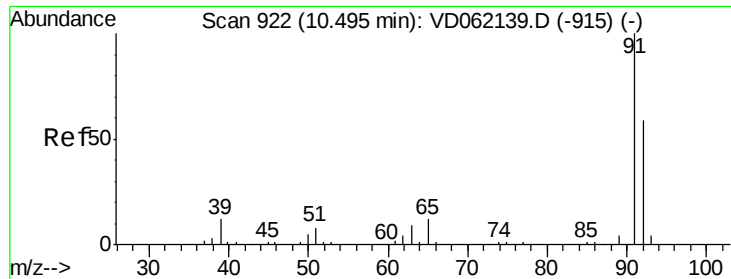
43 100

58 32.8 30.4 45.6



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





#52

Toluene

Concen: 55.594 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.03 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

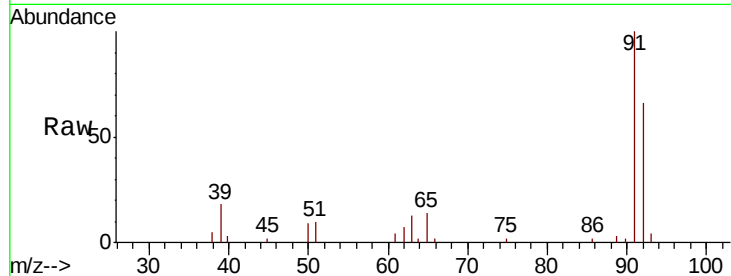
ClientSampleId :

Tot Ion: 92 Resp: 25884

Ion Ratio Lower Upper

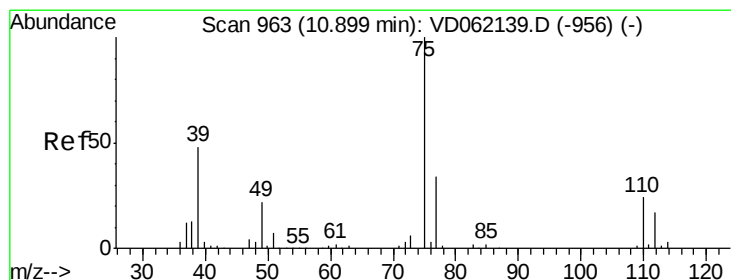
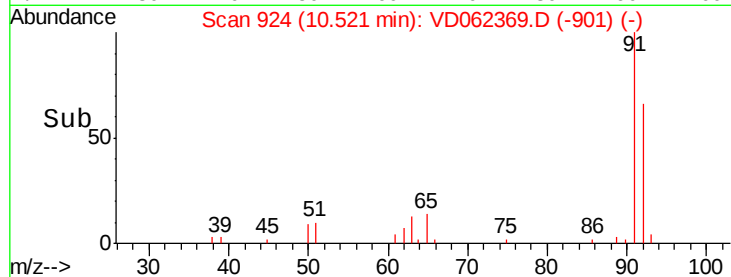
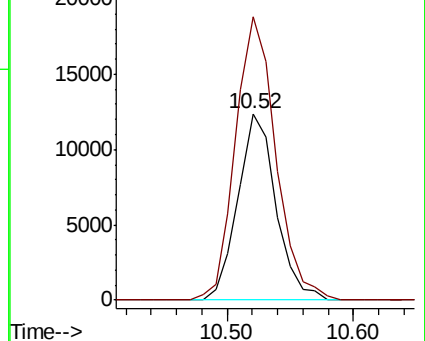
92 100

91 151.6 136.6 204.8



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: 76.675 ug/l

RT: 10.92 min Scan# 965

Delta R.T. 0.03 min

Lab File: VD062369.D

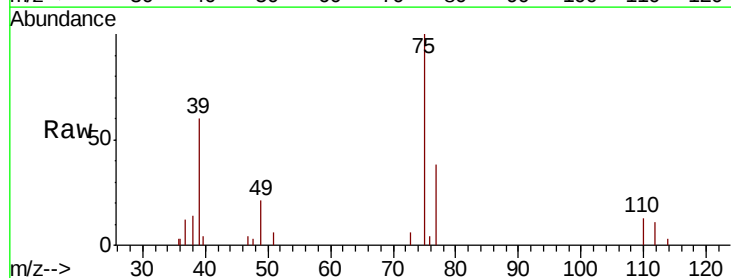
Acq: 15 May 2019 3:05

Tgt Ion: 75 Resp: 23331

Ion Ratio Lower Upper

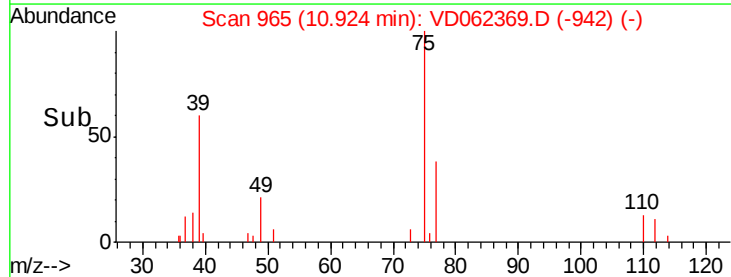
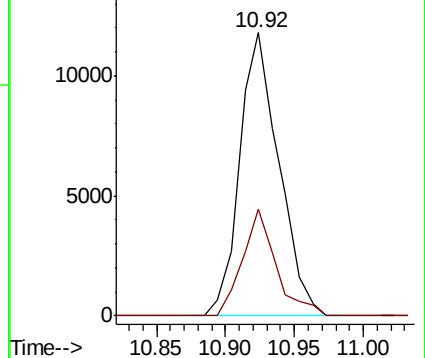
75 100

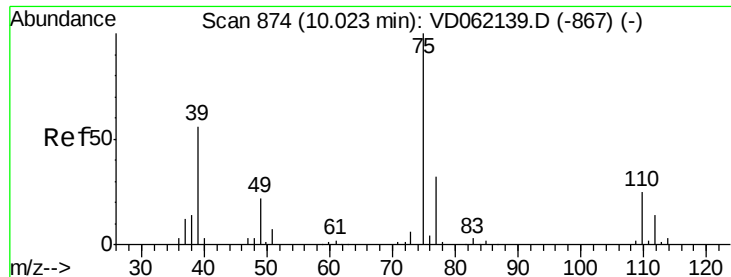
77 37.8 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



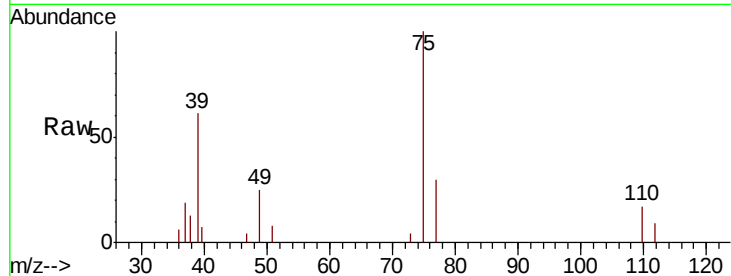


#54

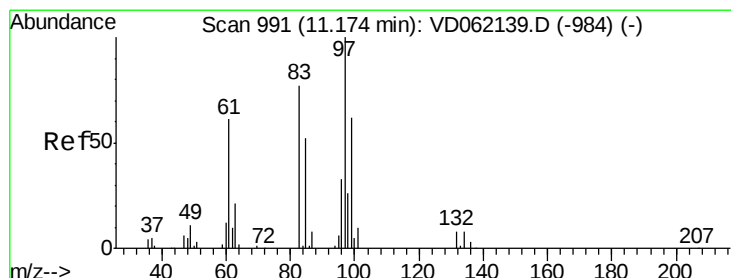
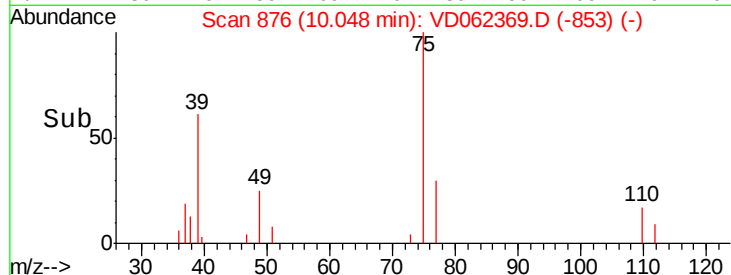
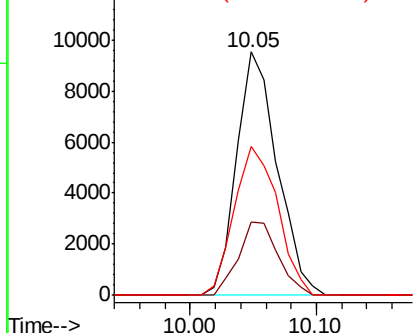
cis-1,3-Dichloropropene
 Concen: 63.994 ug/l
 RT: 10.05 min Scan# 876
 Delta R.T. 0.03 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 75 Resp: 21243
 Ion Ratio Lower Upper
 75 100
 77 30.2 25.5 38.3
 39 61.3 39.4 59.2#



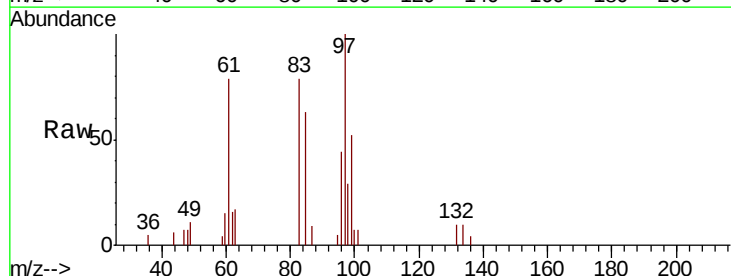
Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 76.95 (76.65 to 77.65): VDC
 Ion 38.95 (38.65 to 39.65): VDC



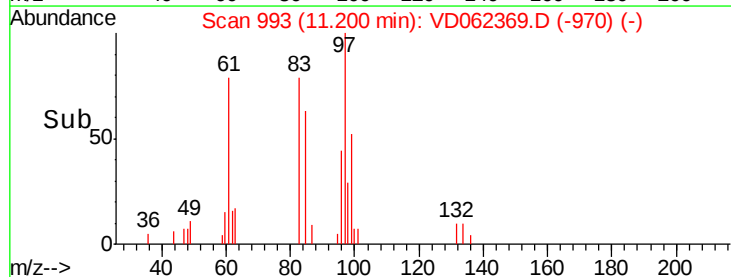
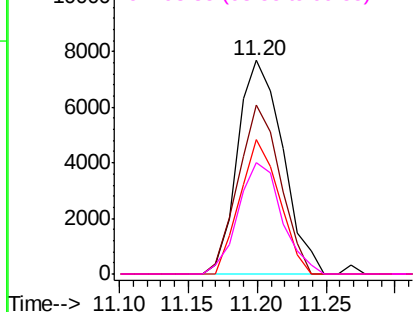
#55

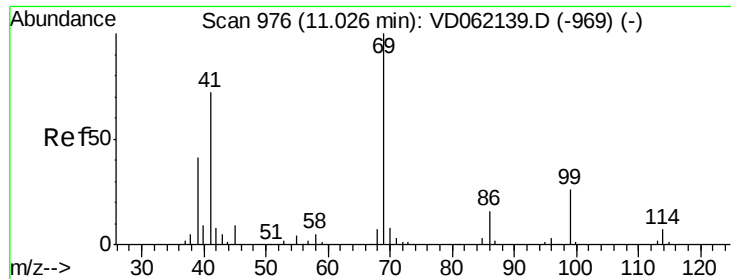
1,1,2-Trichloroethane
 Concen: 106.358 ug/l
 RT: 11.20 min Scan# 993
 Delta R.T. 0.03 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Tgt Ion: 97 Resp: 17521
 Ion Ratio Lower Upper
 97 100
 83 78.9 65.7 98.5
 85 63.2 45.6 68.4
 99 52.2 48.4 72.6



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





#56

Ethyl methacrylate

Concen: 3.464 ug/l

RT: 11.05 min Scan# 976

Delta R.T. 0.03 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

ClientSampleId :

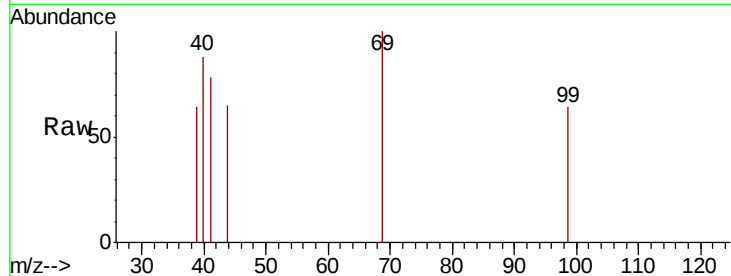
Tot Ion: 69 Resp: 593

Ion Ratio Lower Upper

69 100

41 77.9 56.3 84.5

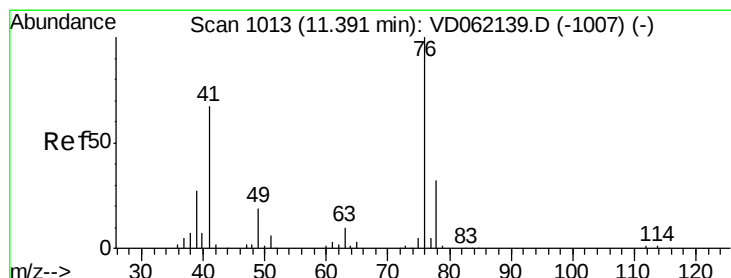
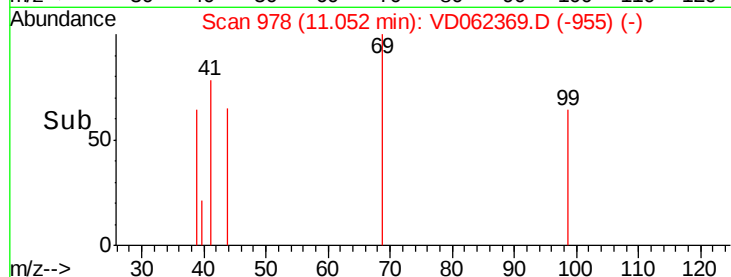
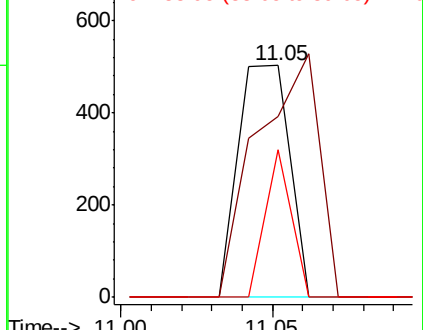
39 63.8 29.4 44.2#



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: 91.894 ug/l

RT: 11.42 min Scan# 1015

Delta R.T. 0.03 min

Lab File: VD062369.D

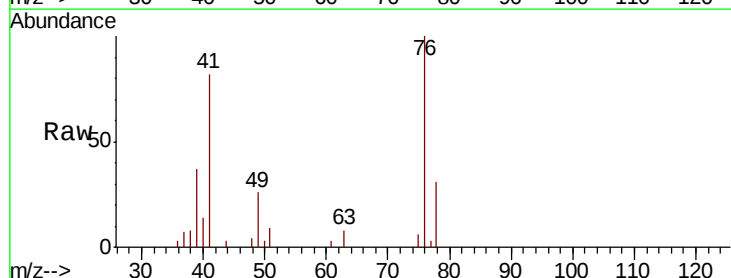
Acq: 15 May 2019 3:05

Tgt Ion: 76 Resp: 22870

Ion Ratio Lower Upper

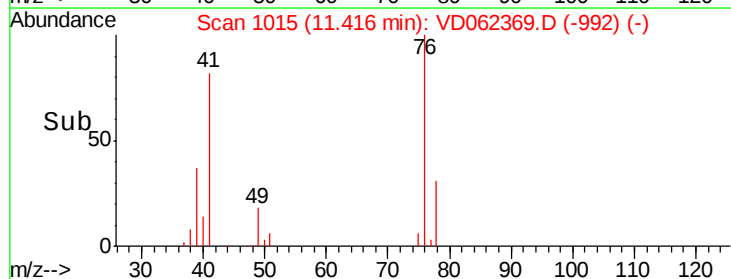
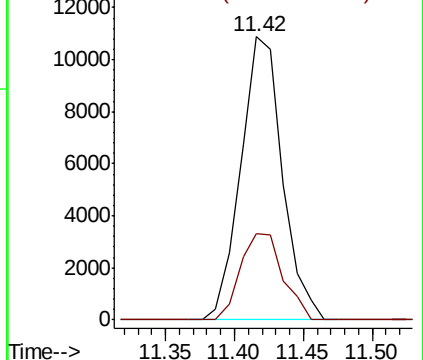
76 100

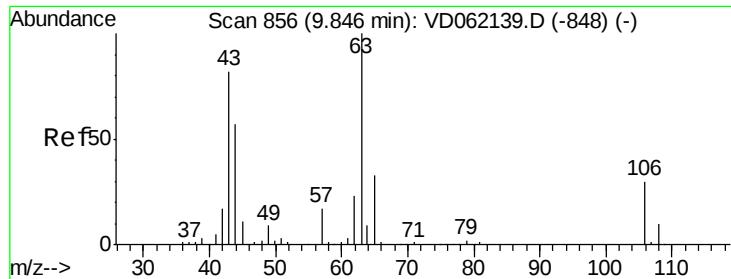
78 30.5 26.2 39.2



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC





#58

2-Chloroethyl Vinyl ether

Concen: 642.133 ug/l

RT: 9.87 min Scan# 858

Delta R.T. 0.03 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

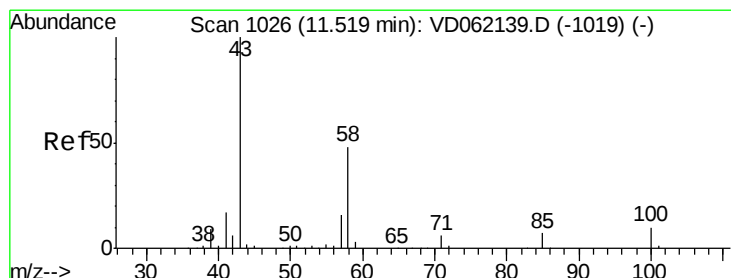
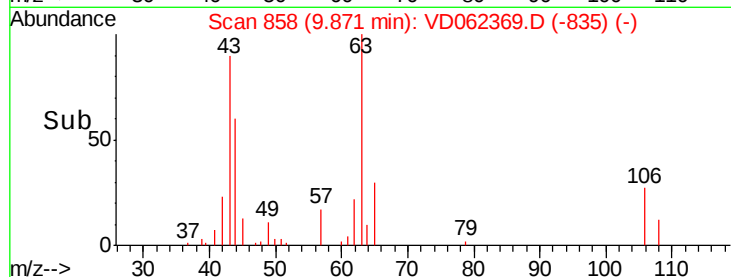
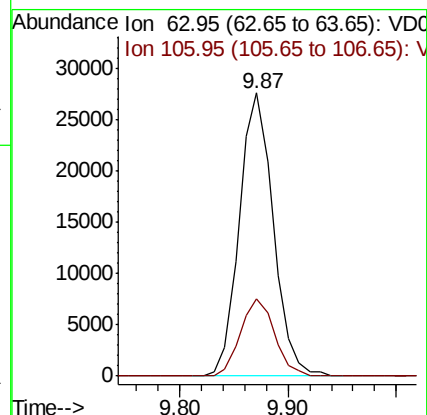
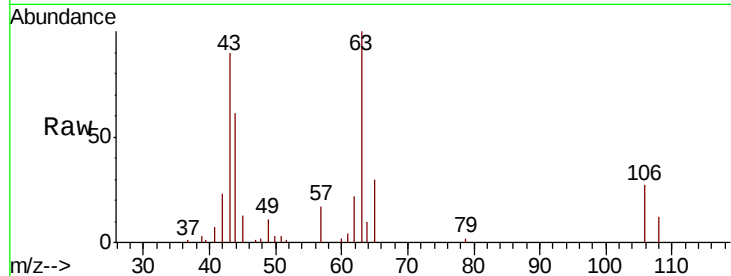
ClientSampled :

Tot Ion: 63 Resp: 60044

Ion Ratio Lower Upper

63 100

106 27.1 22.6 34.0



#59

2-Hexanone

Concen: 743.318 ug/l

RT: 11.54 min Scan# 1028

Delta R.T. 0.03 min

Lab File: VD062369.D

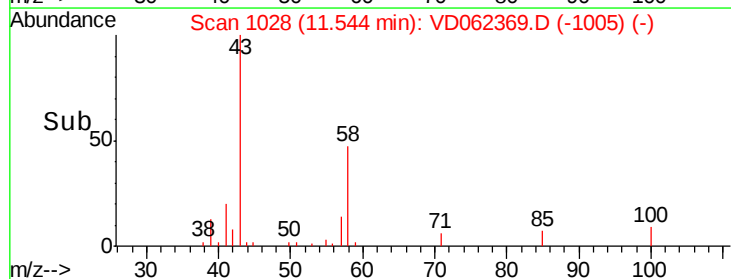
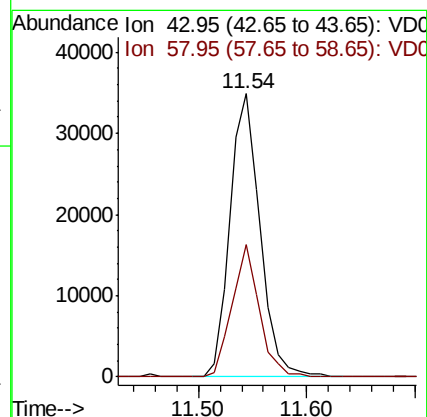
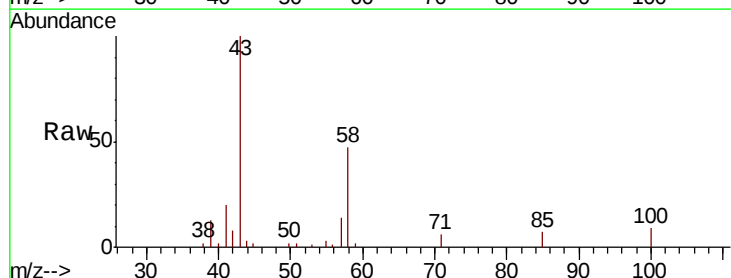
Acq: 15 May 2019 3:05

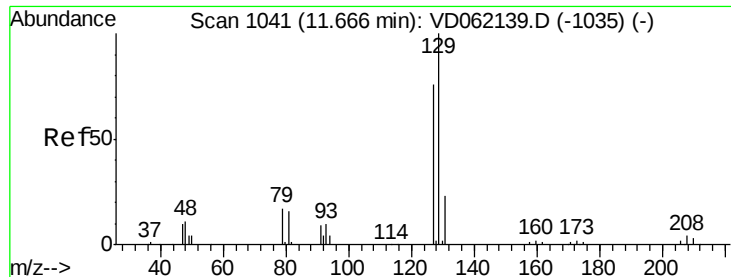
Tgt Ion: 43 Resp: 67121

Ion Ratio Lower Upper

43 100

58 46.7 25.4 76.4





#60

Dibromochloromethane

Concen: 85.157 ug/l

RT: 11.69 min Scan# 1043

Delta R.T. 0.03 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

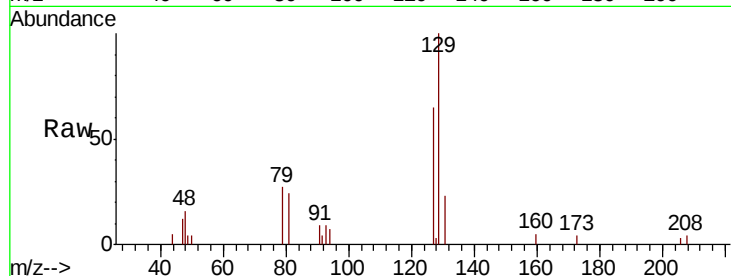
ClientSampleId :

Tot Ion:129 Resp: 24244

Ion Ratio Lower Upper

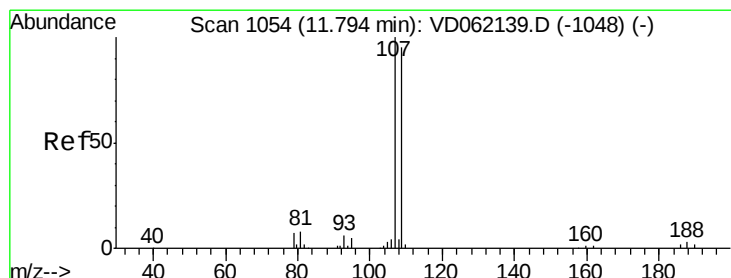
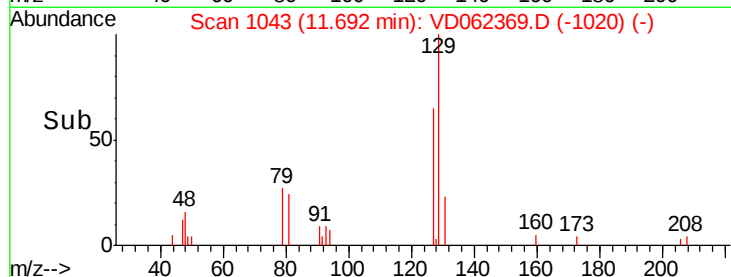
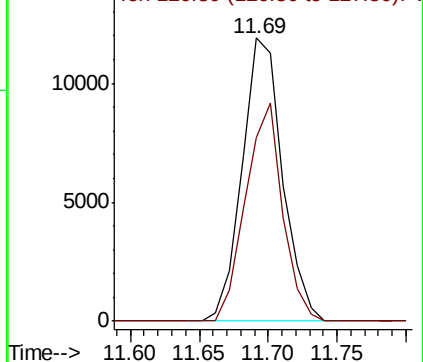
129 100

127 65.0 38.0 113.9



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 98.877 ug/l

RT: 11.82 min Scan# 1056

Delta R.T. 0.03 min

Lab File: VD062369.D

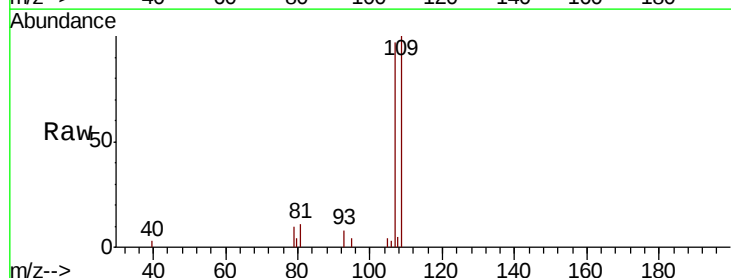
Acq: 15 May 2019 3:05

Tgt Ion:107 Resp: 19803

Ion Ratio Lower Upper

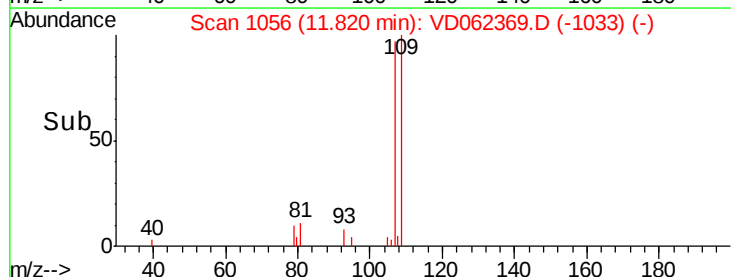
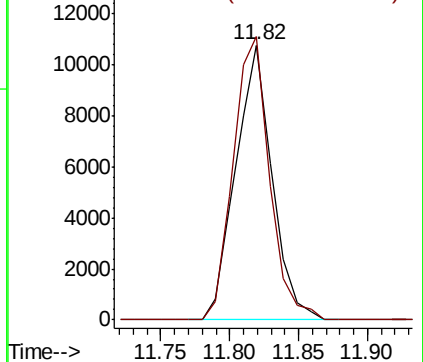
107 100

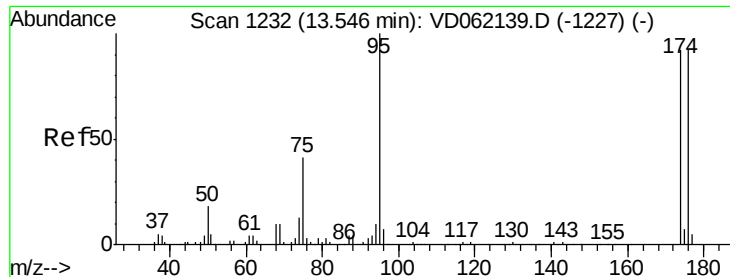
109 103.1 78.3 117.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

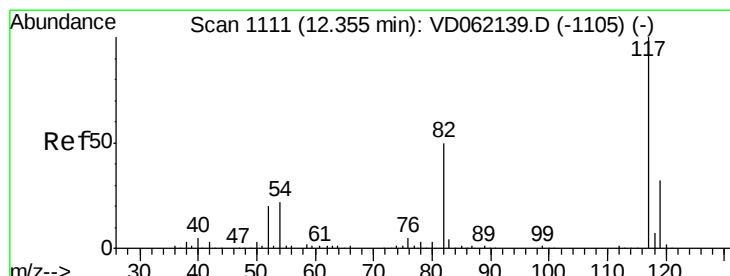
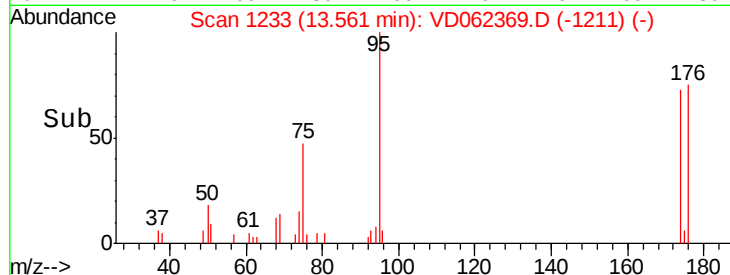
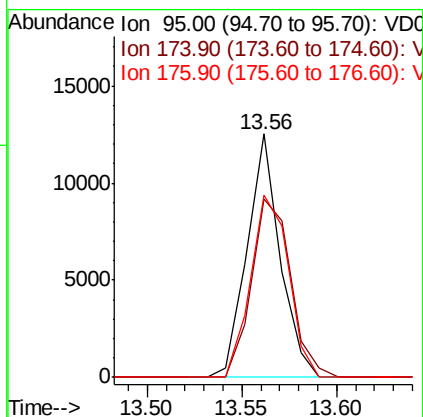
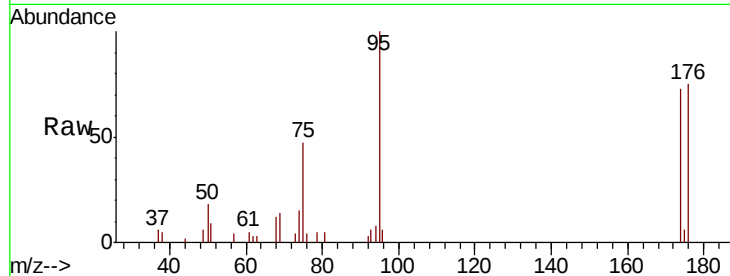




#62
4-Bromofluorobenzene
Concen: 48.598 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.02 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

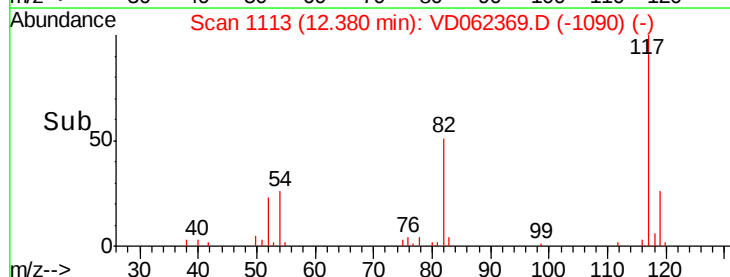
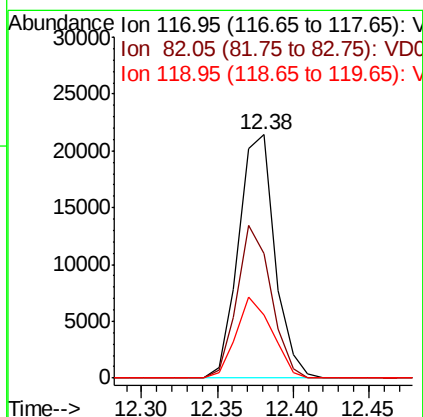
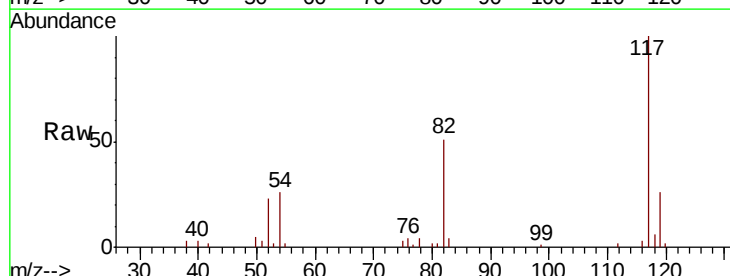
Instrument :
MSVOA_D
ClientSampleId :

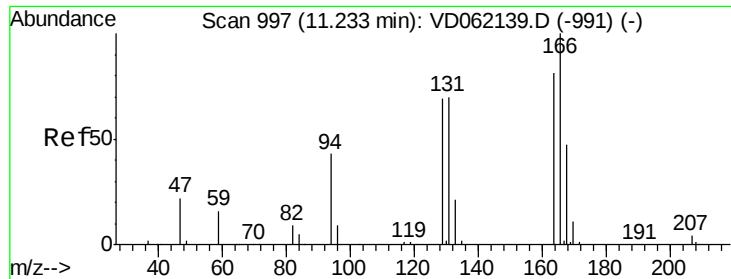
Tot Ion: 95 Resp: 15089
Ion Ratio Lower Upper
95 100
174 73.2 0.0 181.8
176 74.8 0.0 174.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.03 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Tgt Ion: 117 Resp: 35796
Ion Ratio Lower Upper
117 100
82 51.3 36.2 54.2
119 26.2 26.2 39.4#

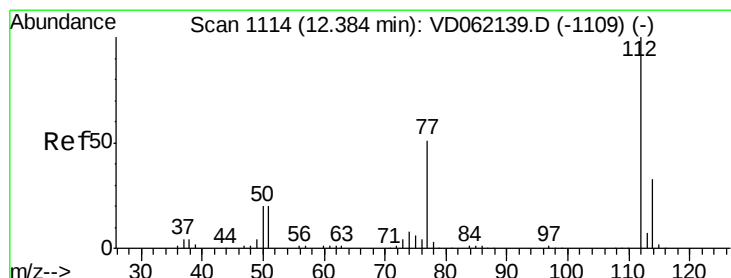
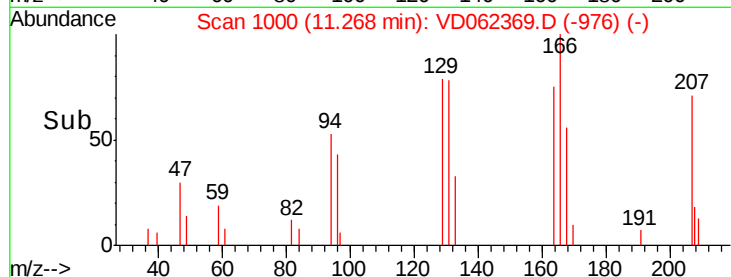
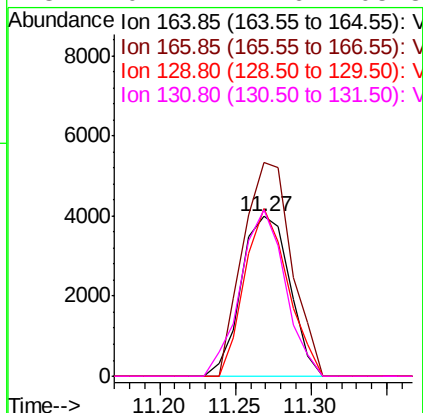
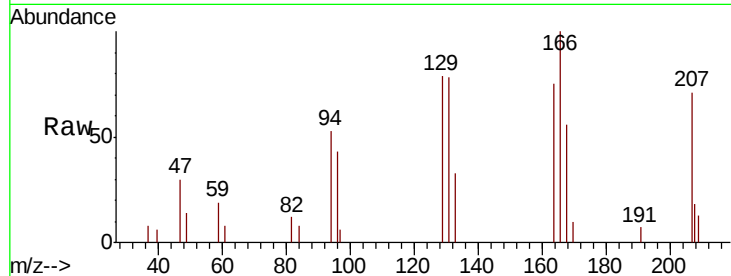




#64
Tetrachloroethene
Concen: 31.849 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. 0.04 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

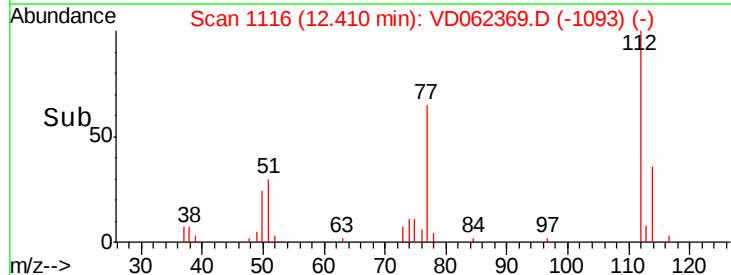
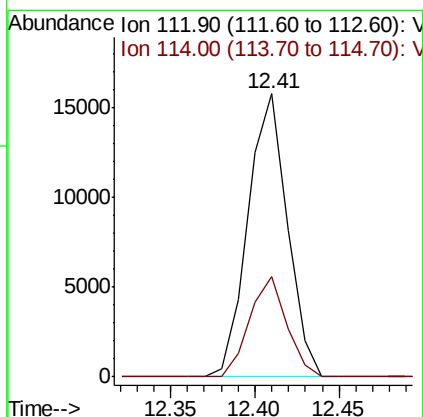
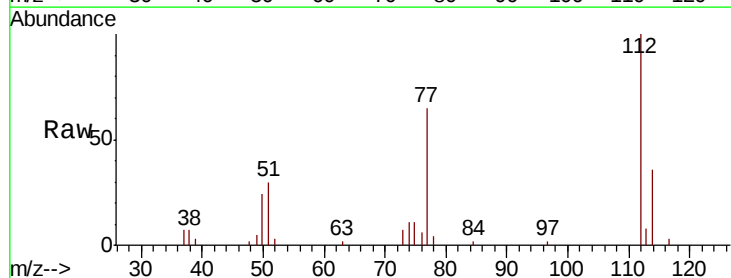
Instrument :
MSVOA_D
ClientSampleId :

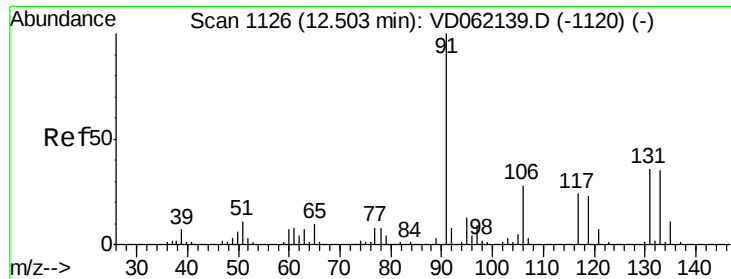
Tot Ion:164 Resp: 8915
Ion Ratio Lower Upper
164 100
166 133.9 101.5 152.3
129 105.2 74.6 112.0
131 104.4 72.6 108.8



#65
Chlorobenzene
Concen: 38.315 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.03 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Tgt Ion:112 Resp: 25545
Ion Ratio Lower Upper
112 100
114 35.7 25.8 38.8





#66

1,1,1,2-Tetrachloroethane

Concen: 54.580 ug/l

RT: 12.52 min Scan# 1127

Delta R.T. 0.02 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

ClientSampleId :

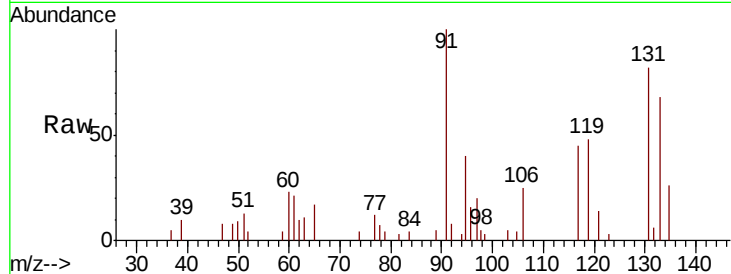
Tot Ion:131 Resp: 15837

Ion Ratio Lower Upper

131 100

133 83.2 48.6 145.8

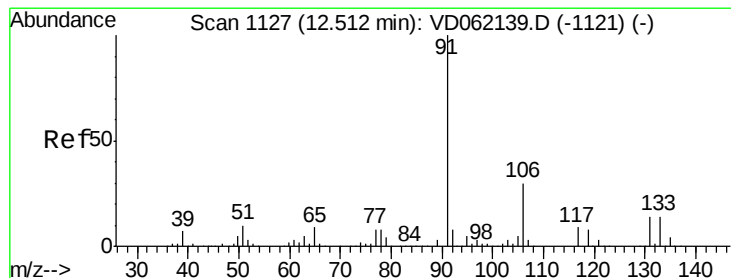
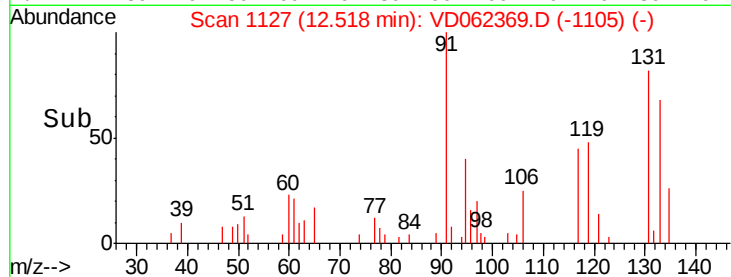
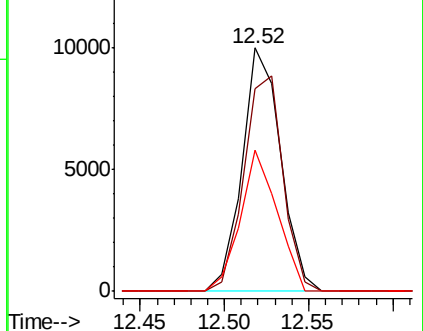
119 58.0 34.7 104.1



Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V



#67

Ethyl Benzene

Concen: 40.261 ug/l

RT: 12.53 min Scan# 1128

Delta R.T. 0.02 min

Lab File: VD062369.D

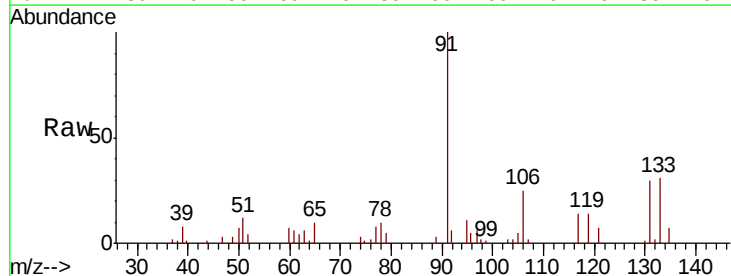
Acq: 15 May 2019 3:05

Tgt Ion: 91 Resp: 44938

Ion Ratio Lower Upper

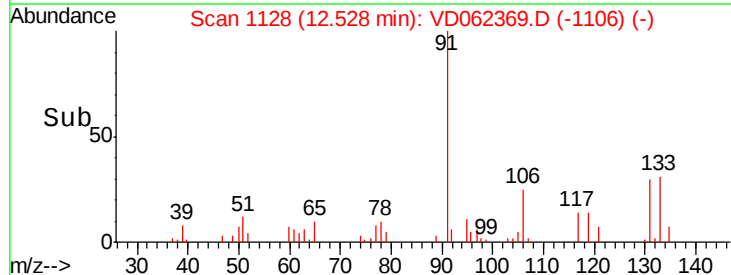
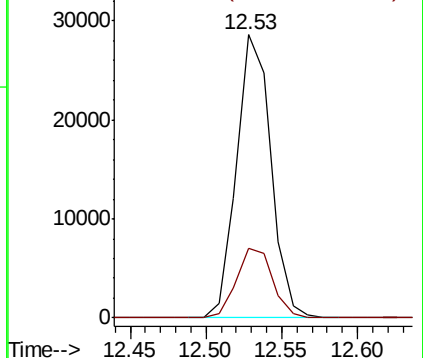
91 100

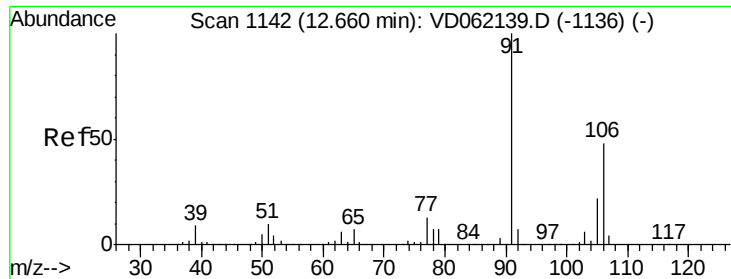
106 24.7 24.7 37.1#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.05 (105.75 to 106.75): V

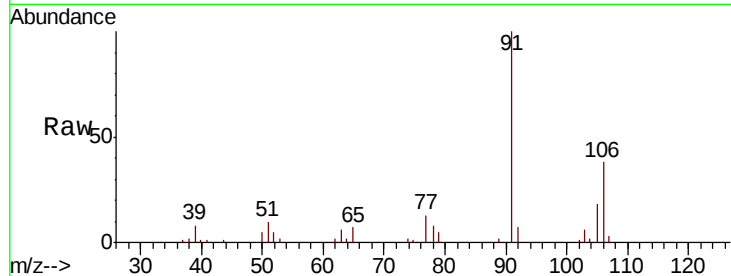




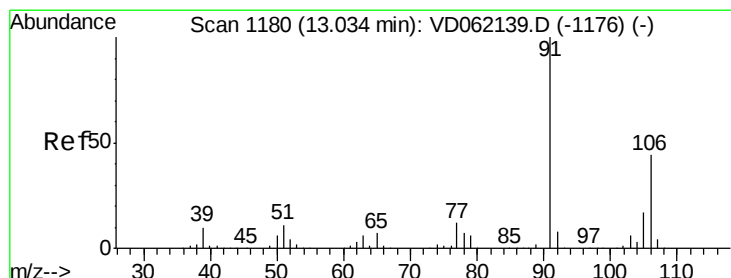
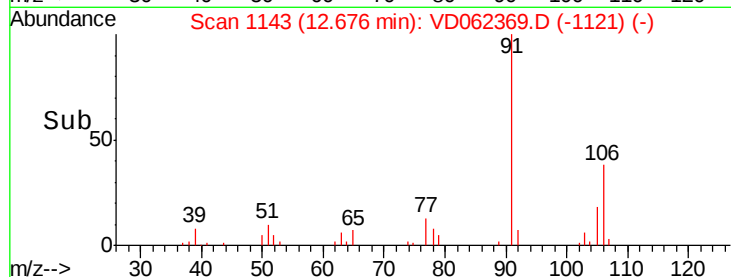
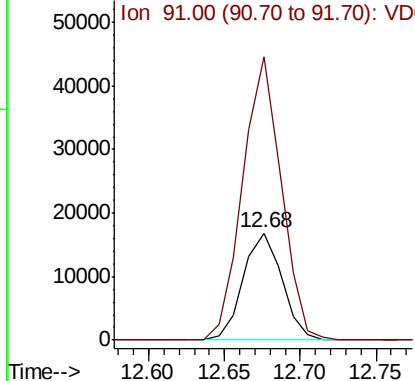
#68
m/p-Xylenes
Concen: 74.599 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.02 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 30294
Ion Ratio Lower Upper
106 100
91 264.4 164.0 246.0#

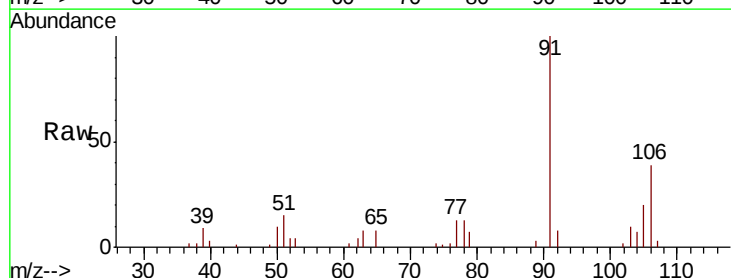


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

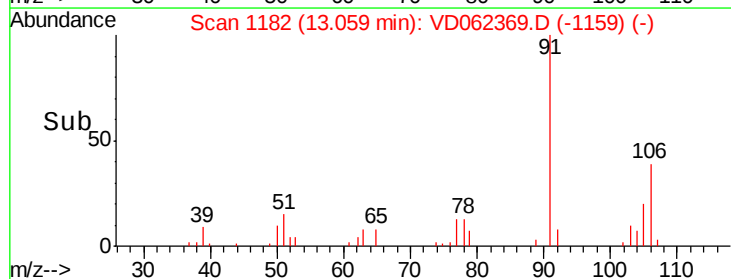
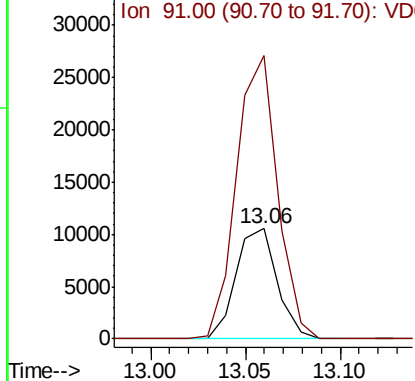


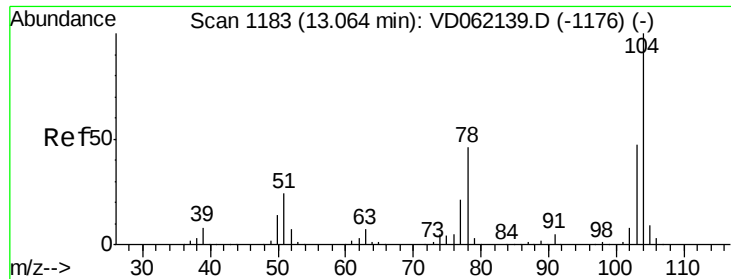
#69
o-Xylene
Concen: 41.959 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.03 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Tgt Ion:106 Resp: 15841
Ion Ratio Lower Upper
106 100
91 256.7 106.7 319.9



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





#70

Stvrene

Concen: 49.097 ug/l

RT: 13.08 min Scan# 1184

Delta R.T. 0.02 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

ClientSampled :

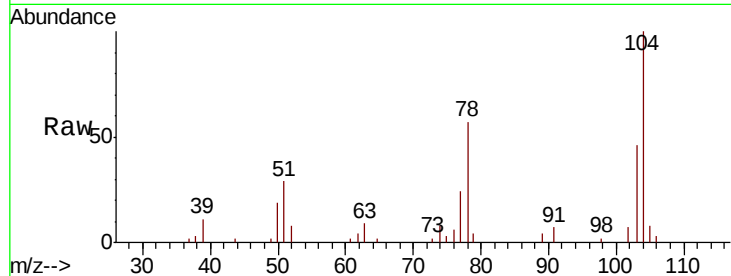
Tot Ion:104 Resp: 31400

Ion Ratio Lower Upper

104 100

78 57.0 35.4 53.2#

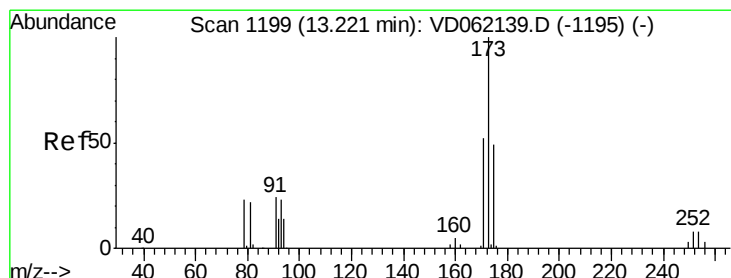
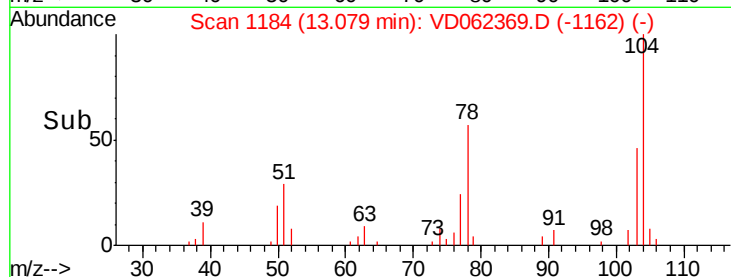
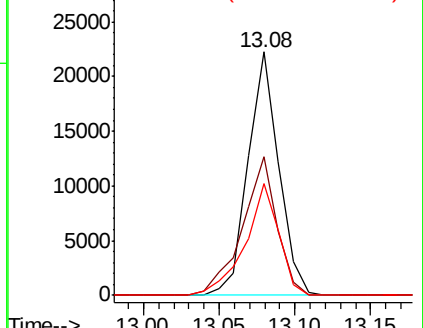
103 45.9 37.5 56.3



Abundance Ion 104.05 (103.75 to 104.75): V

Ion 77.95 (77.65 to 78.65): V

Ion 103.05 (102.75 to 103.75): V



#71

Bromoform

Concen: 81.565 ug/l

RT: 13.25 min Scan# 1201

Delta R.T. 0.03 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

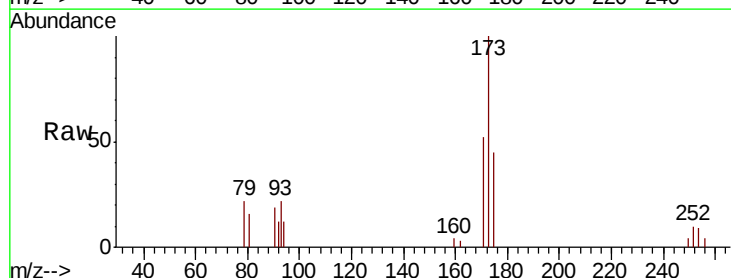
Tgt Ion:173 Resp: 16466

Ion Ratio Lower Upper

173 100

175 45.2 24.4 73.4

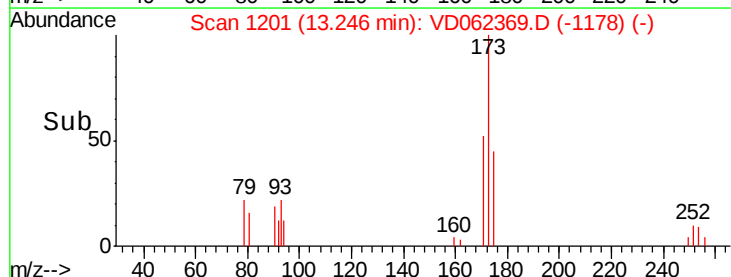
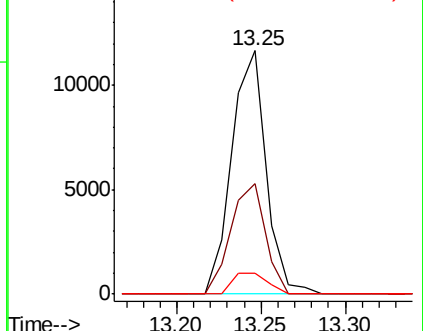
254 8.7 5.4 8.2#

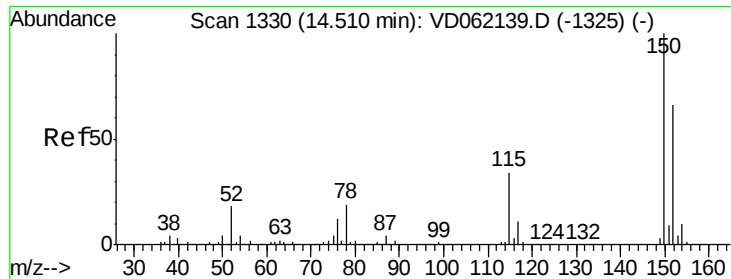


Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



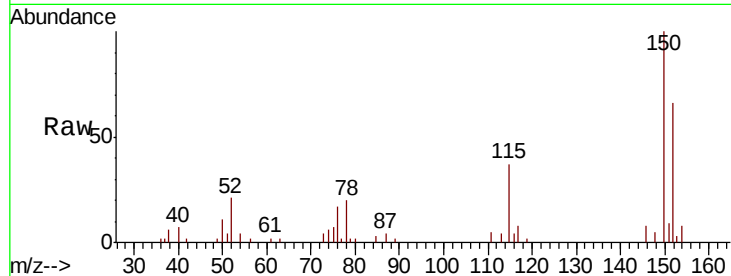


#72

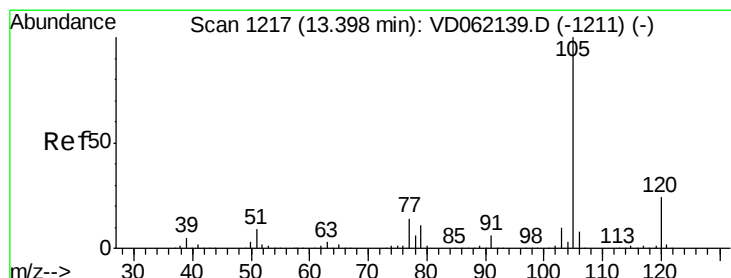
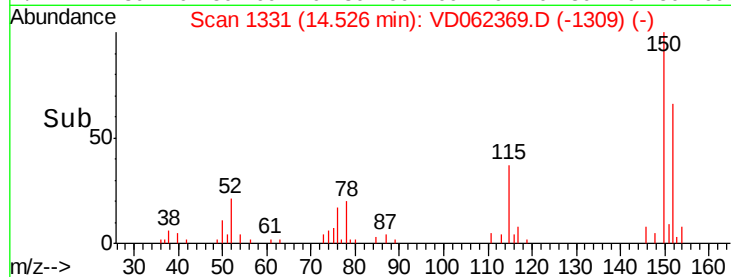
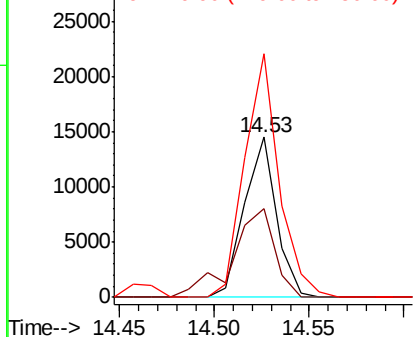
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.02 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:152 Resp: 16956
Ion Ratio Lower Upper
152 100
115 55.7 30.9 92.7
150 152.4 0.0 314.8



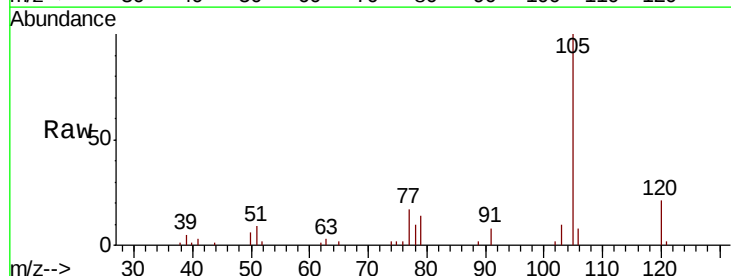
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



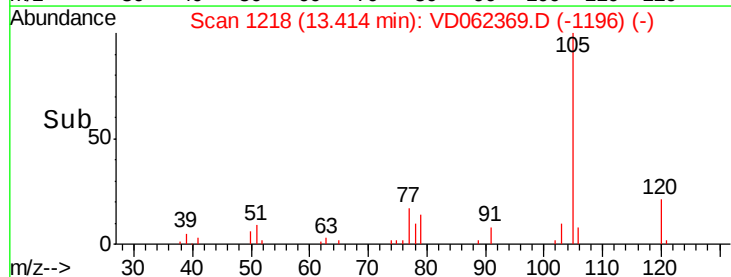
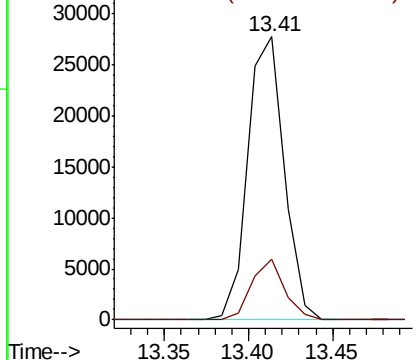
#73

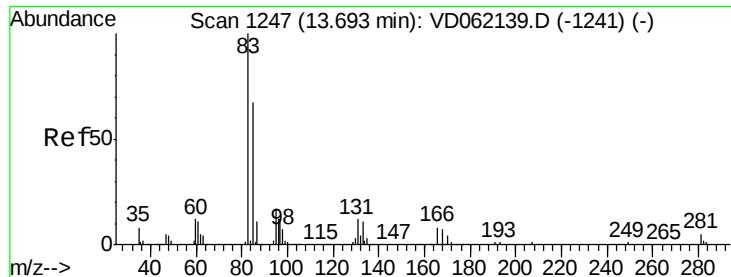
Isopropylbenzene
Concen: 40.799 ug/l
RT: 13.41 min Scan# 1218
Delta R.T. 0.02 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Tgt Ion:105 Resp: 41468
Ion Ratio Lower Upper
105 100
120 21.2 12.0 36.1



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





#75

1,1,2,2-Tetrachloroethane

Concen: 112.865 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.02 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

ClientSampleId :

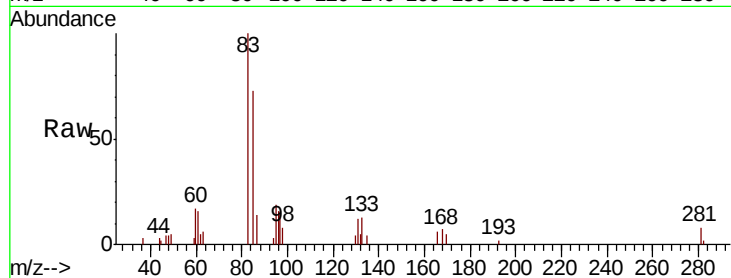
Tot Ion: 83 Resp: 21717

Ion Ratio Lower Upper

83 100

131 11.9 5.0 14.9

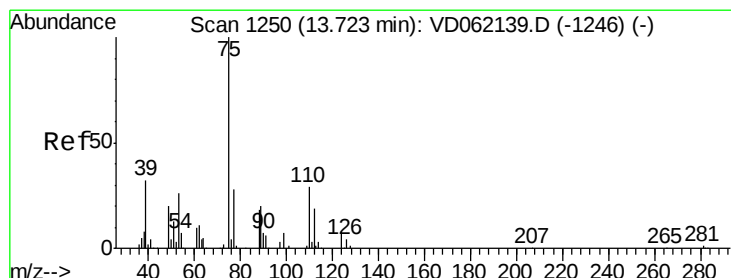
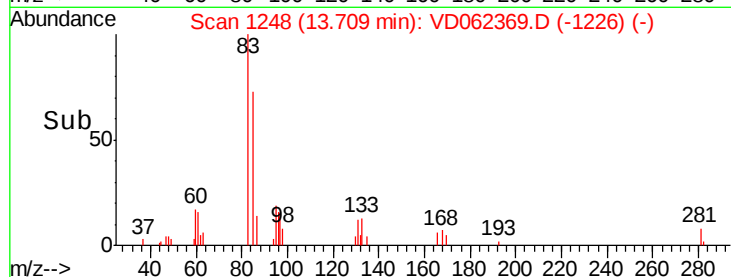
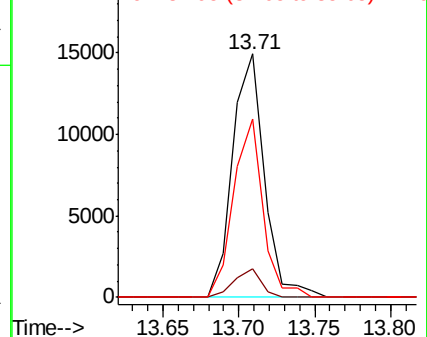
85 73.4 32.6 97.7



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: 125.483 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.02 min

Lab File: VD062369.D

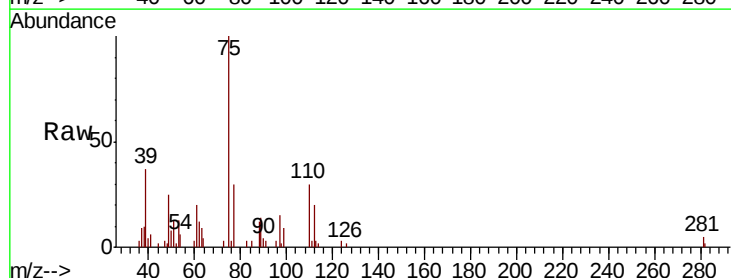
Acq: 15 May 2019 3:05

Tgt Ion: 75 Resp: 25286

Ion Ratio Lower Upper

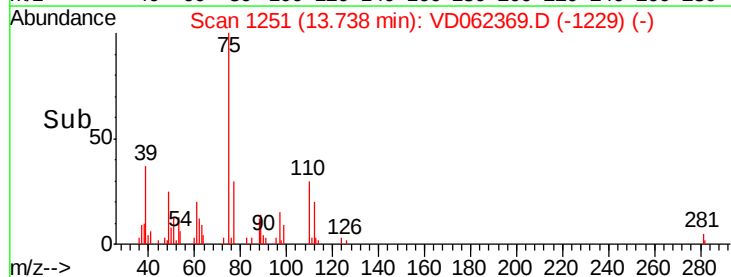
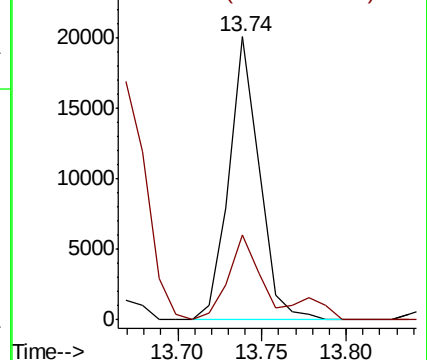
75 100

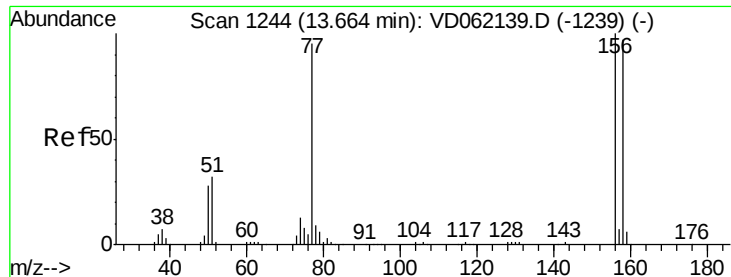
77 29.8 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 57.942 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.02 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

ClientSampled :

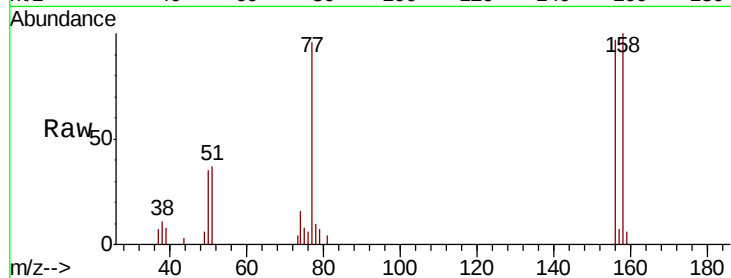
Tot Ion:156 Resp: 16486

Ion Ratio Lower Upper

156 100

77 98.9 53.1 159.4

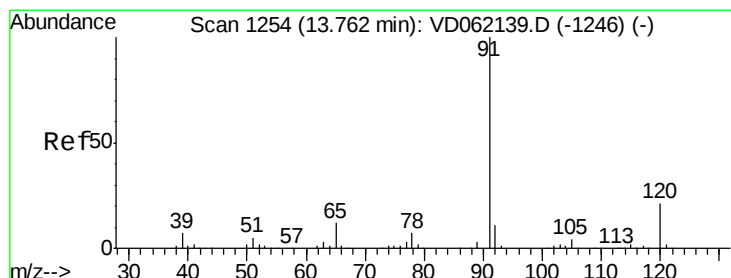
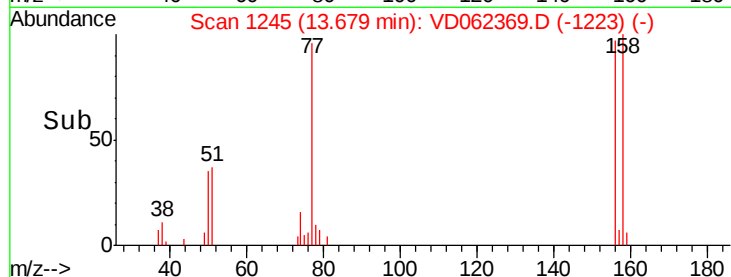
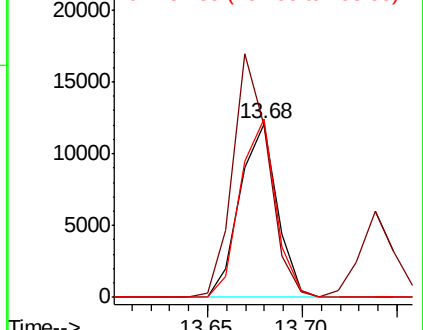
158 102.6 49.4 148.0



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: 33.998 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.02 min

Lab File: VD062369.D

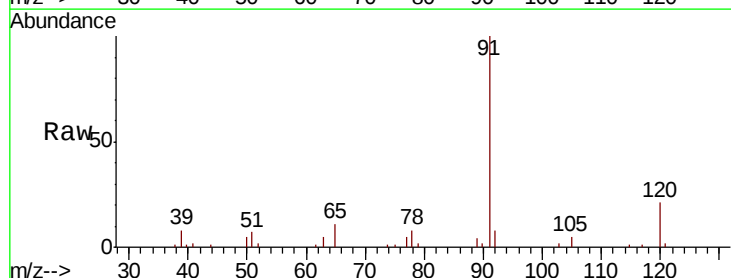
Acq: 15 May 2019 3:05

Tgt Ion: 91 Resp: 41221

Ion Ratio Lower Upper

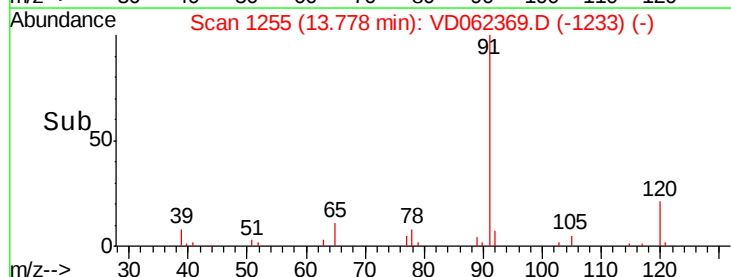
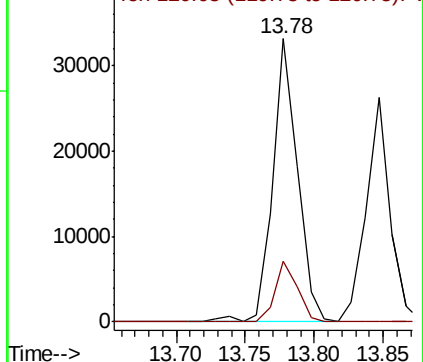
91 100

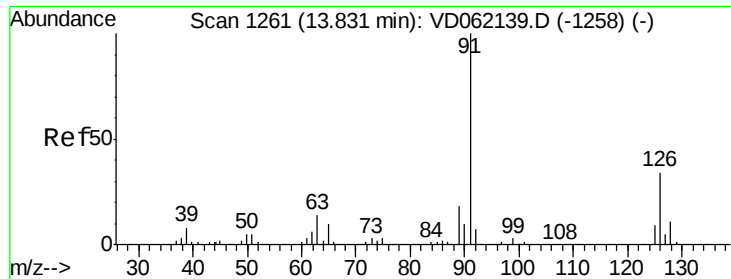
120 21.3 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 45.346 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. 0.02 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

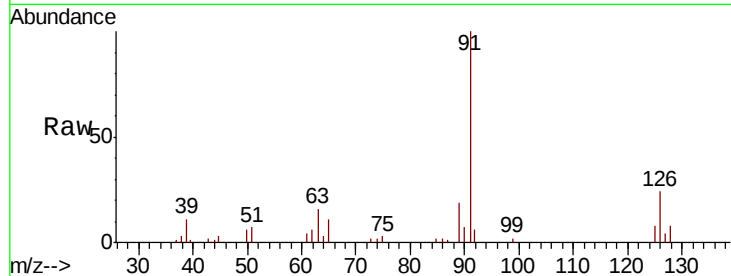
ClientSampleId :

Tot Ion: 91 Resp: 31488

Ion Ratio Lower Upper

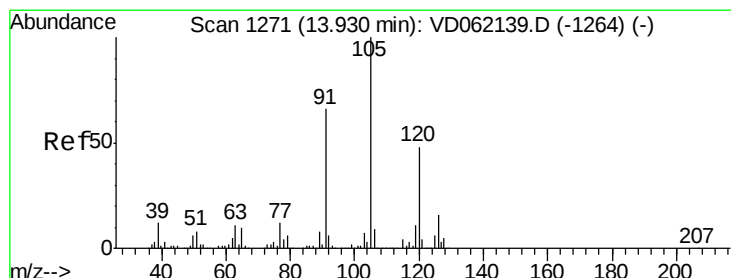
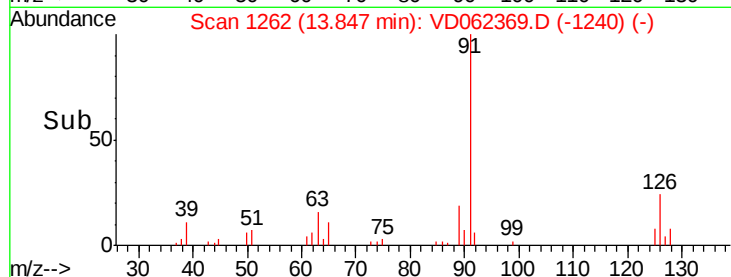
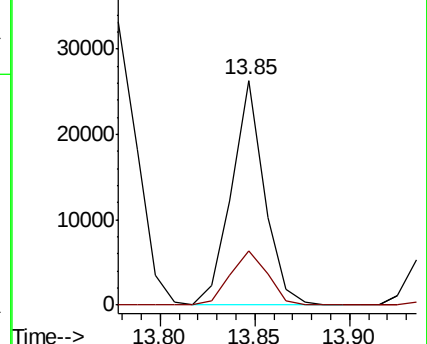
91 100

126 23.9 18.6 55.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 38.865 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VD062369.D

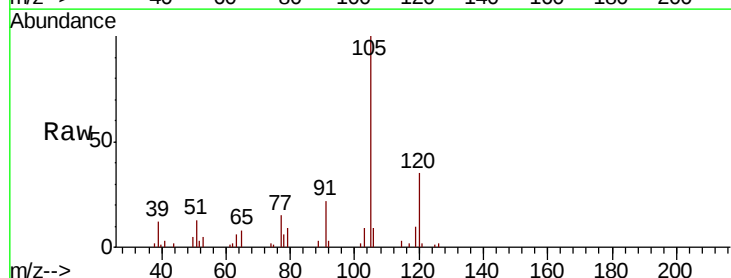
Acq: 15 May 2019 3:05

Tgt Ion: 105 Resp: 33264

Ion Ratio Lower Upper

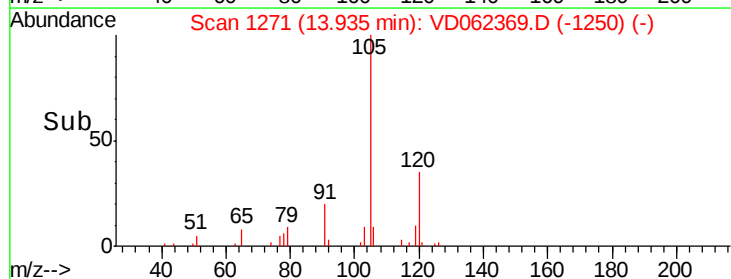
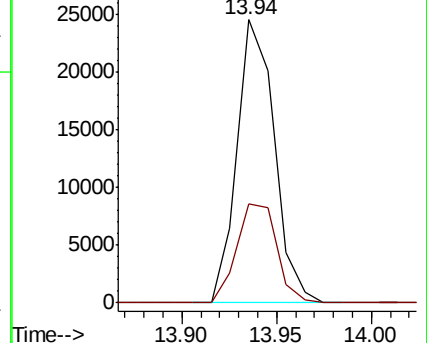
105 100

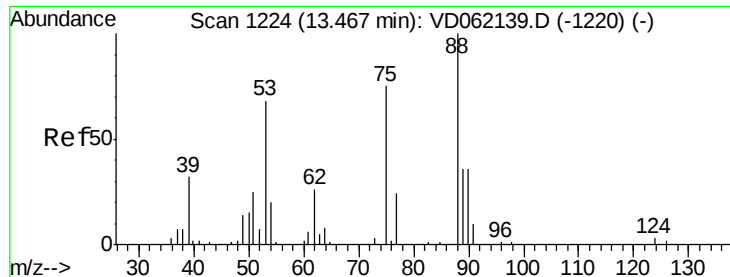
120 35.0 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 83.235 ug/l

RT: 13.48 min Scan# 1225

Delta R.T. 0.02 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

ClientSampled :

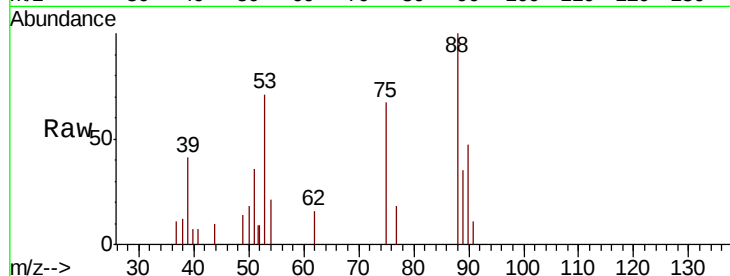
Tot Ion: 75 Resp: 4735

Ion Ratio Lower Upper

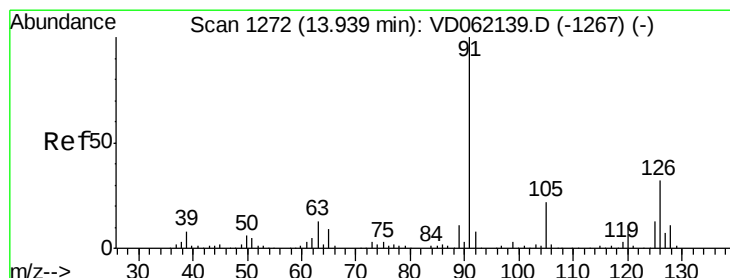
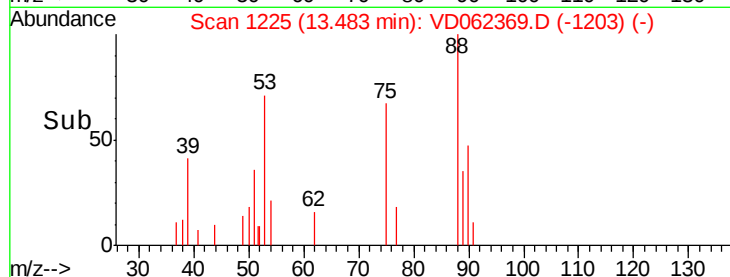
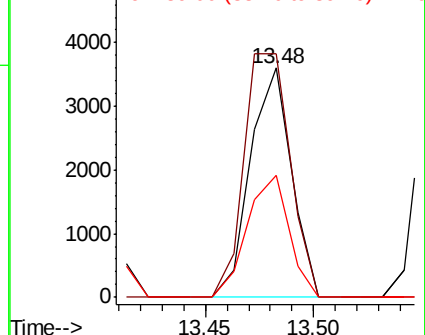
75 100

53 105.9 65.8 98.8#

89 53.0 35.0 52.6#



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



#82

4-Chlorotoluene

Concen: 41.662 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. 0.02 min

Lab File: VD062369.D

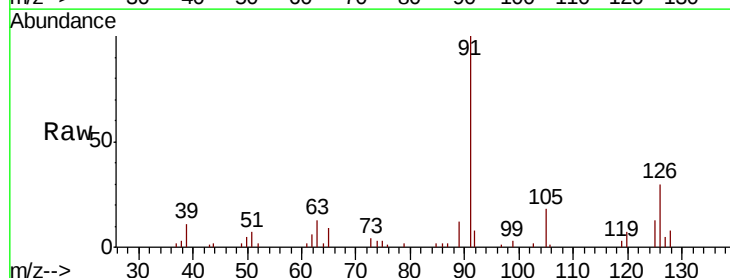
Acq: 15 May 2019 3:05

Tgt Ion: 91 Resp: 34043

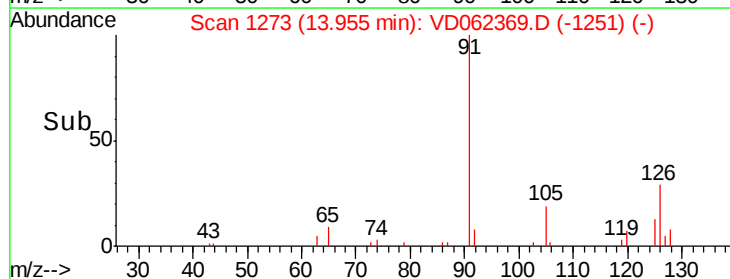
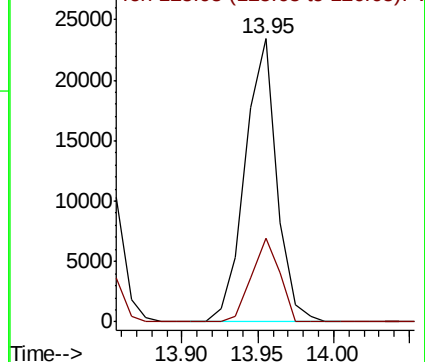
Ion Ratio Lower Upper

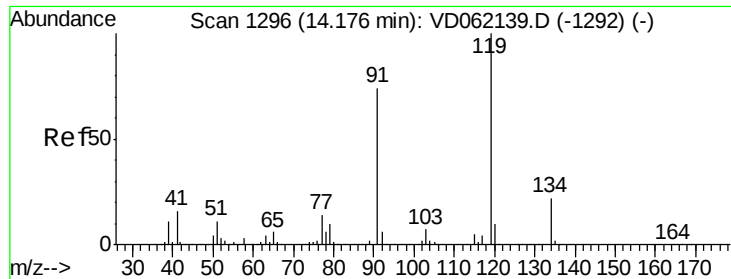
91 100

126 29.6 19.1 57.5



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

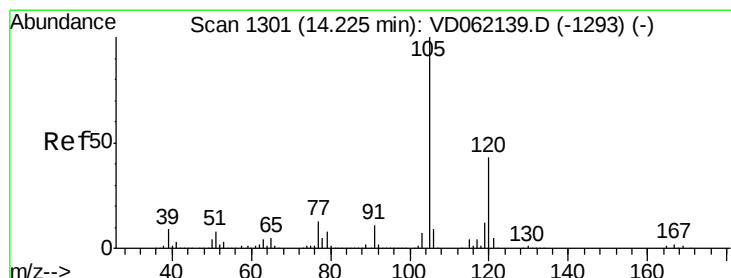
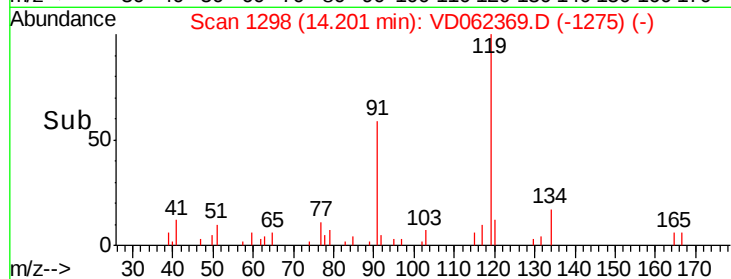
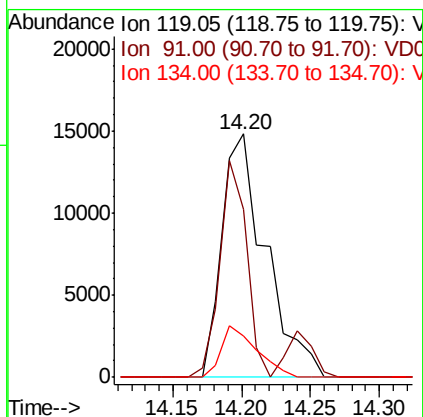
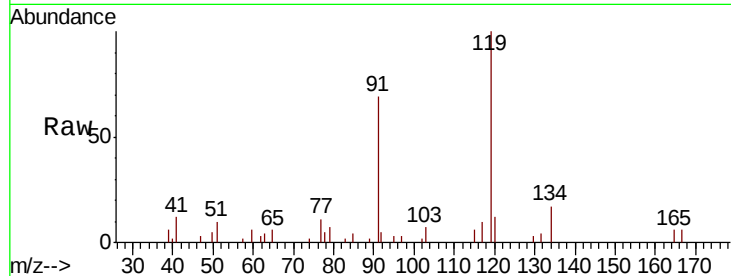




#83
tert-Butylbenzene
Concen: 33.846 ug/l
RT: 14.20 min Scan# 1298
Delta R.T. 0.03 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

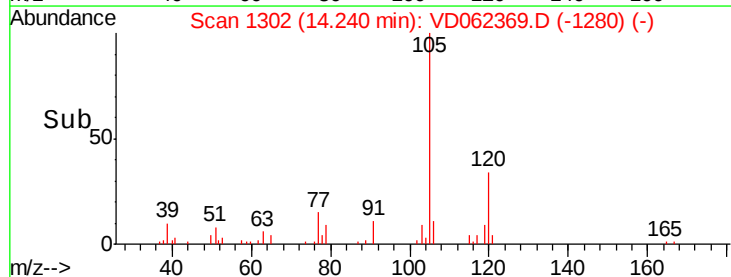
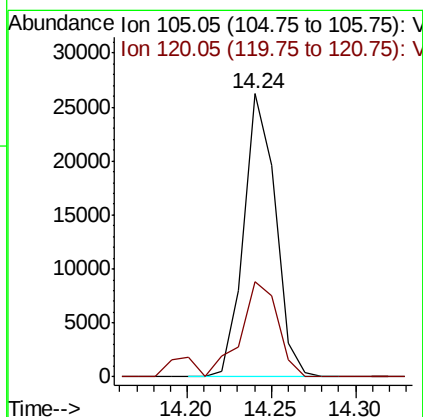
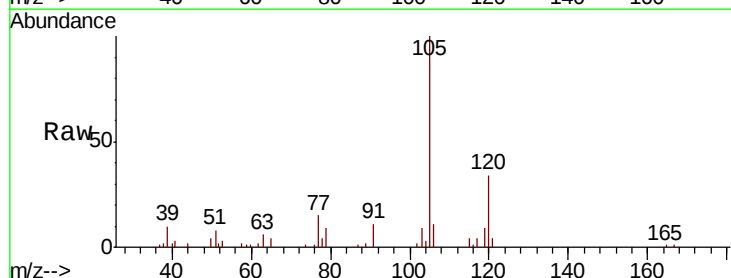
Instrument :
MSVOA_D
ClientSampleId :

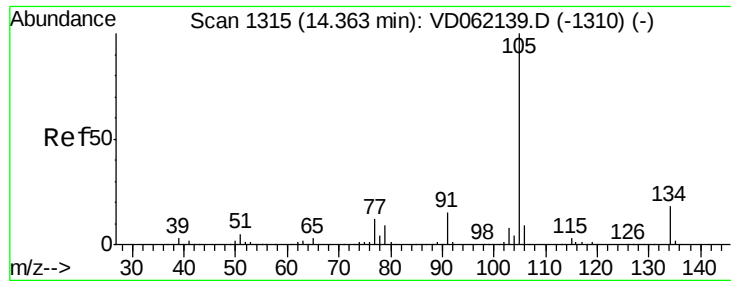
Tot Ion:119 Resp: 32560
Ion Ratio Lower Upper
119 100
91 68.9 34.2 102.6
134 16.9 12.0 36.0



#84
1,2,4-Trimethylbenzene
Concen: 39.718 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. 0.02 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Tgt Ion:105 Resp: 34113
Ion Ratio Lower Upper
105 100
120 33.7 23.1 69.2





#85

sec-Butylbenzene

Concen: 25.956 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. 0.01 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

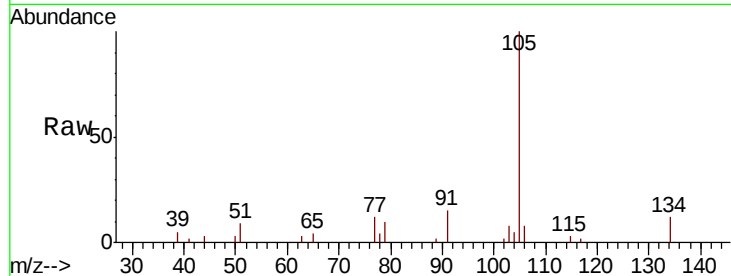
ClientSampleId :

Tot Ion:105 Resp: 27377

Ion Ratio Lower Upper

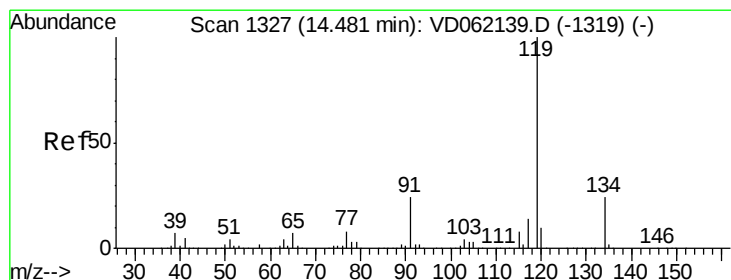
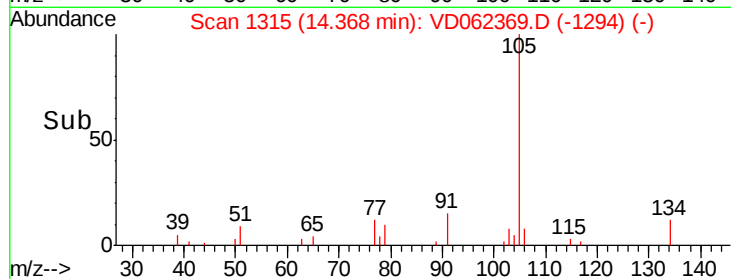
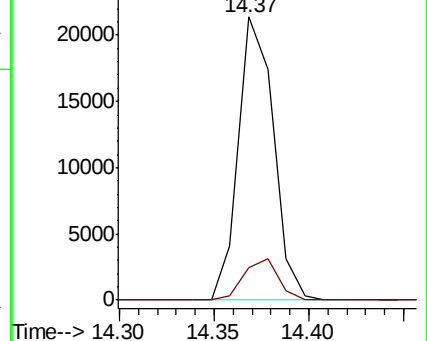
105 100

134 11.6 8.9 26.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 25.571 ug/l

RT: 14.50 min Scan# 1328

Delta R.T. 0.02 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

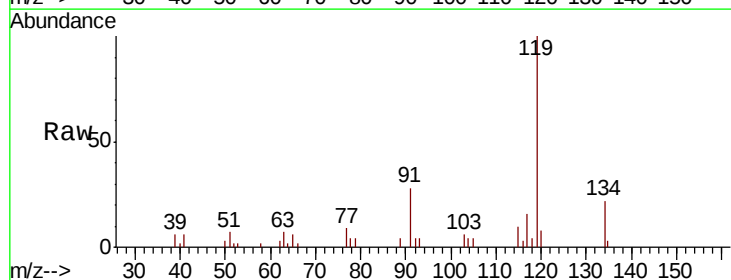
Tgt Ion:119 Resp: 24097

Ion Ratio Lower Upper

119 100

134 25.2 12.8 38.3

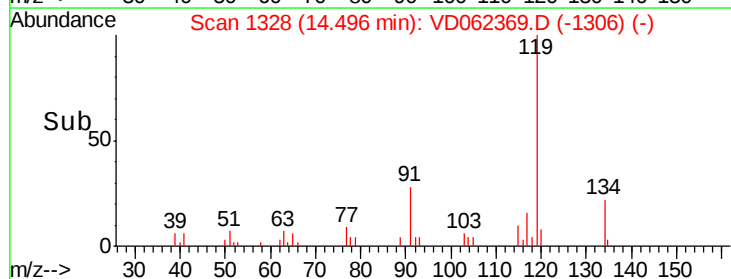
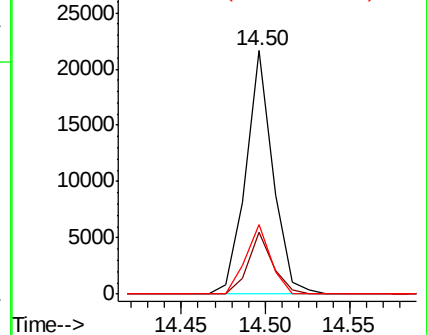
91 28.3 10.7 32.1

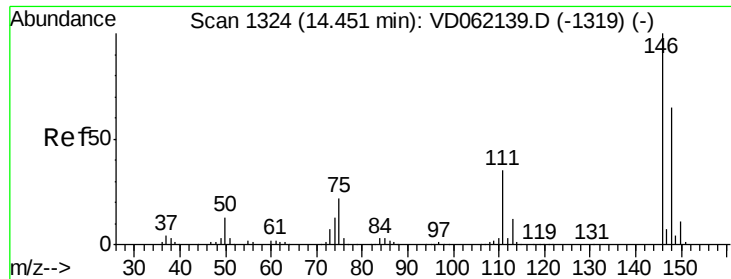


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

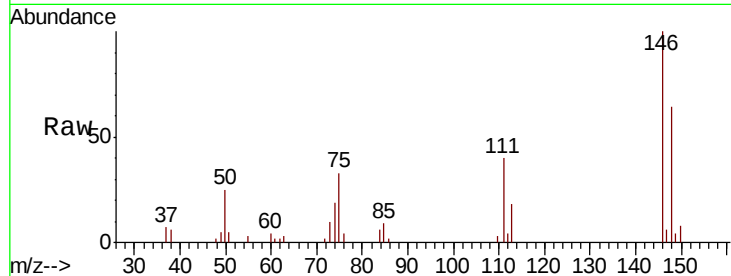




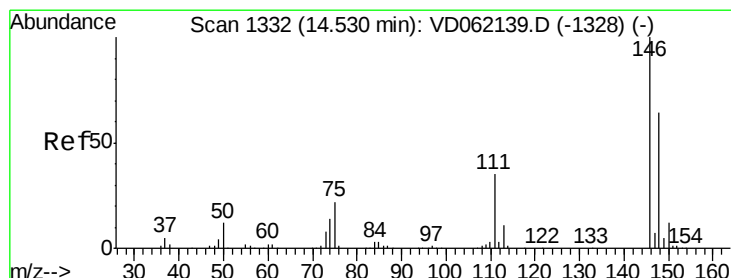
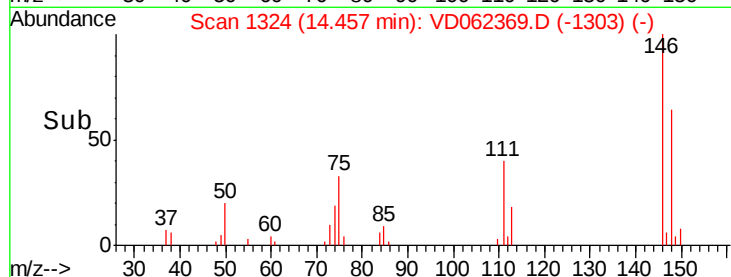
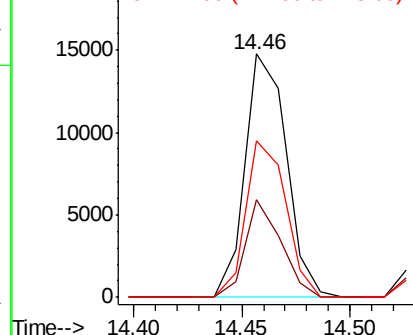
#87
 1,3-Dichlorobenzene
 Concen: 37.758 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.01 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.0	60.0
148	64.2	31.8	95.4

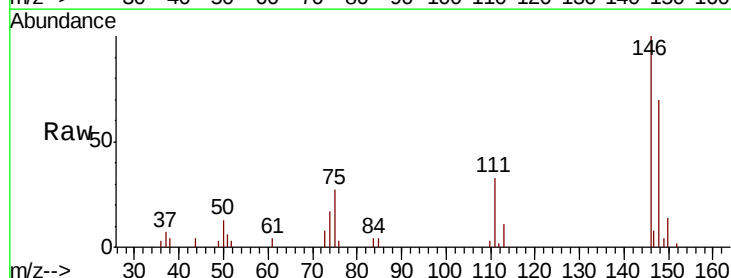


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

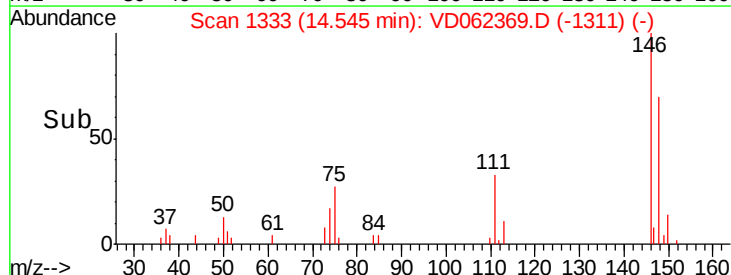
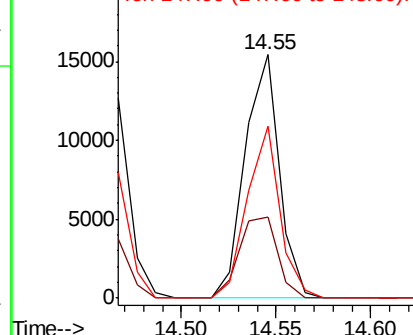


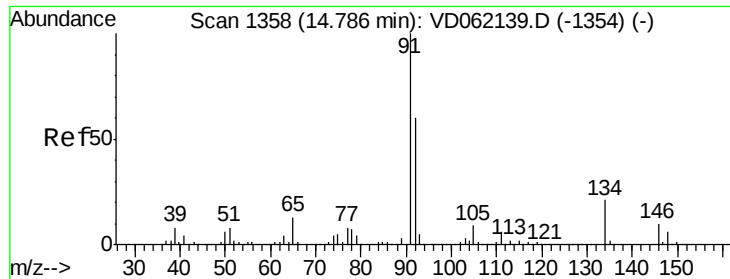
#88
 1,4-Dichlorobenzene
 Concen: 37.732 ug/l
 RT: 14.55 min Scan# 1333
 Delta R.T. 0.02 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.1	20.2	60.5
148	70.4	32.0	96.2



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





#89

n-Butylbenzene

Concen: 20.667 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.02 min

Lab File: VD062369.D

Acq: 15 May 2019 3:05

Instrument :

MSVOA_D

ClientSampleId :

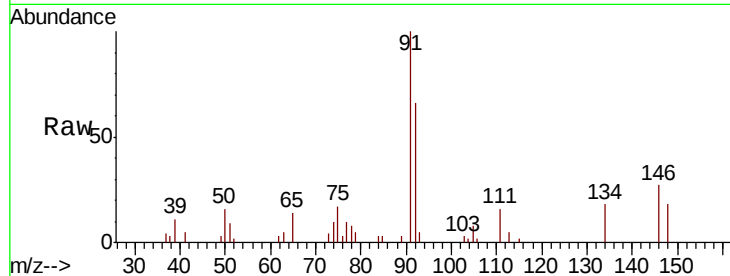
Tot Ion: 91 Resp: 17481

Ion Ratio Lower Upper

91 100

92 66.4 30.3 91.0

134 18.3 14.5 43.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V

14.80

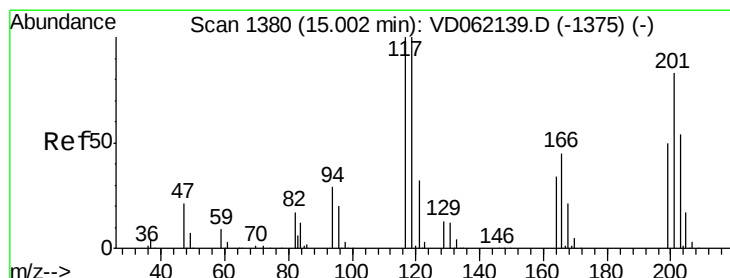
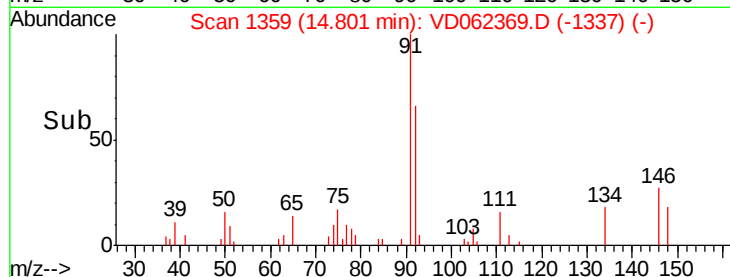
15000

10000

5000

0

Time-->



#90

Hexachloroethane

Concen: 23.374 ug/l

RT: 15.02 min Scan# 1381

Delta R.T. 0.02 min

Lab File: VD062369.D

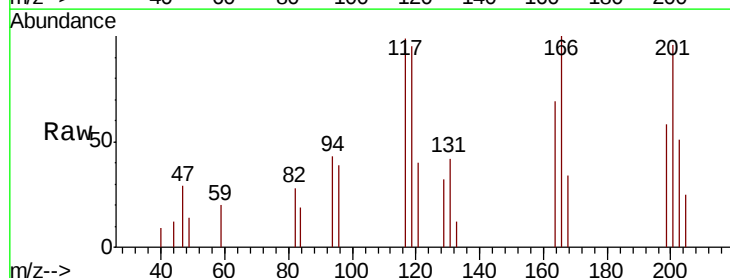
Acq: 15 May 2019 3:05

Tgt Ion: 117 Resp: 5990

Ion Ratio Lower Upper

117 100

201 96.9 30.2 90.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

15.02

4000

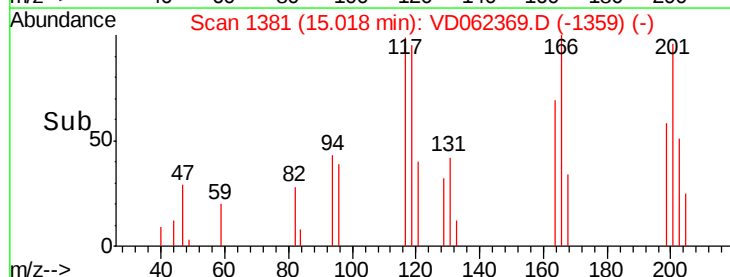
3000

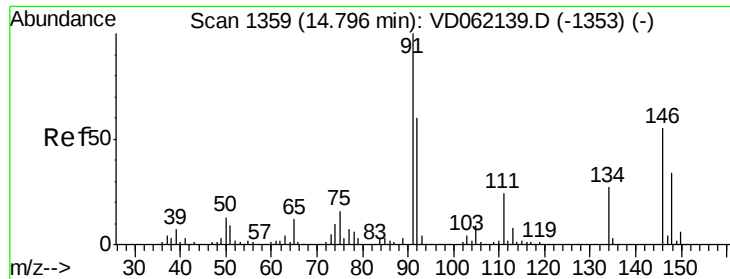
2000

1000

0

Time-->

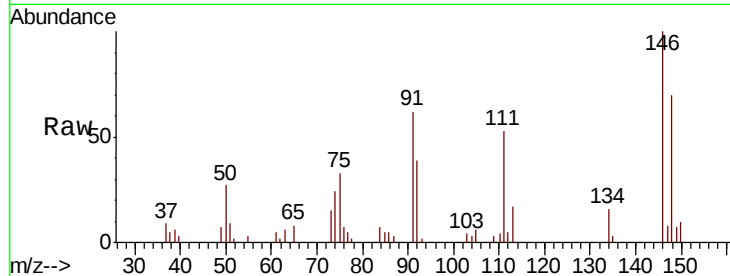




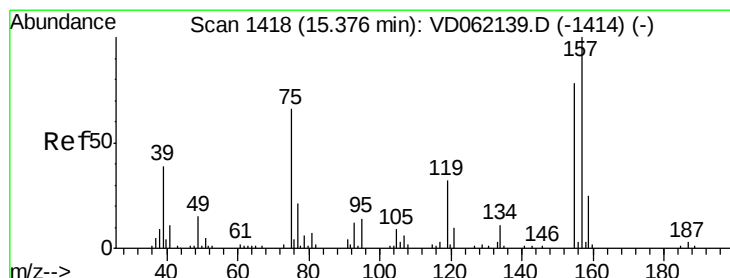
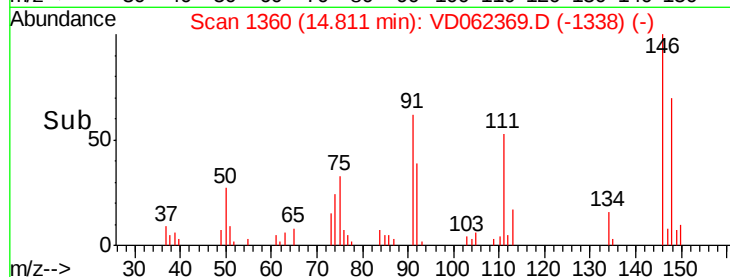
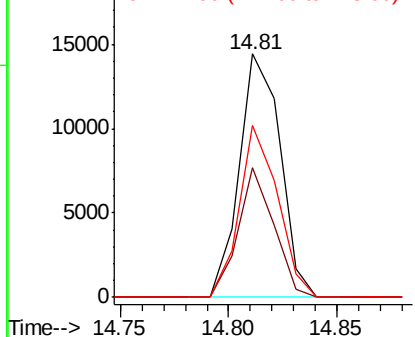
#91
 1,2-Dichlorobenzene
 Concen: 44.078 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.02 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:146 Resp: 18868
 Ion Ratio Lower Upper
 146 100
 111 53.0 20.0 59.9
 148 70.4 32.3 96.8

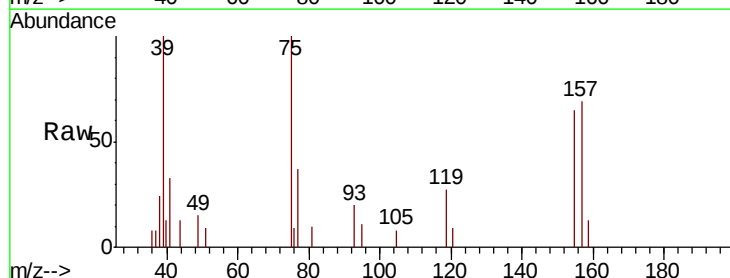


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

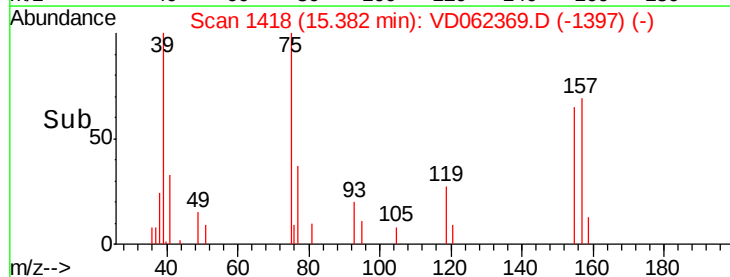
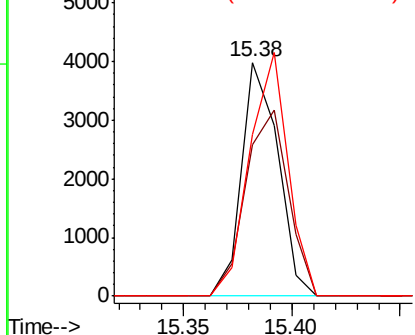


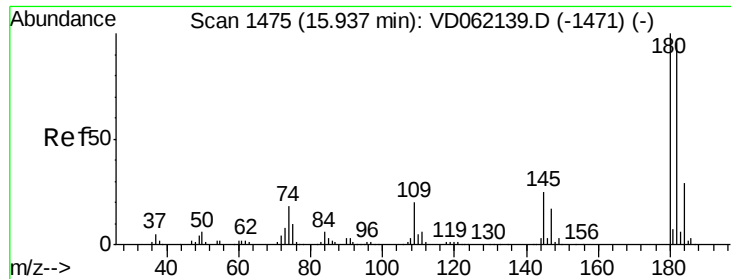
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 147.315 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Tgt Ion: 75 Resp: 4653
 Ion Ratio Lower Upper
 75 100
 155 64.9 55.3 165.8
 157 69.4 67.8 203.2



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

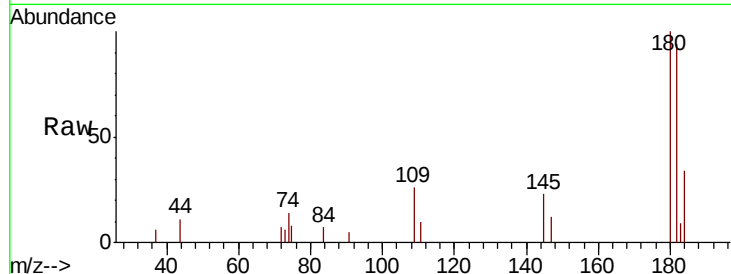




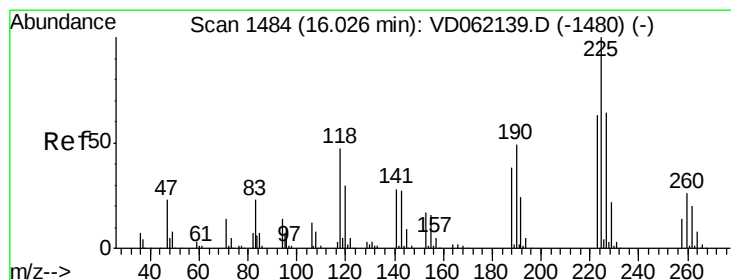
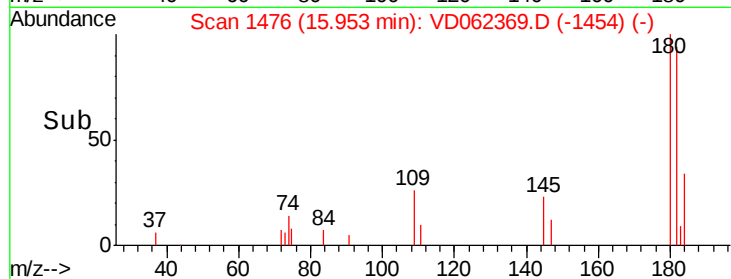
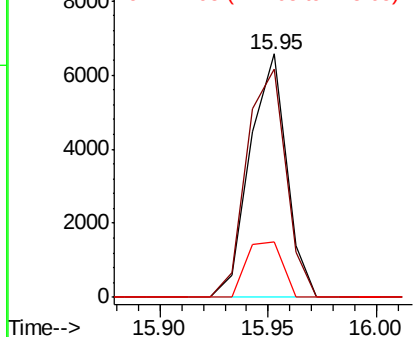
#93
 1,2,4-Trichlorobenzene
 Concen: 24.695 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.02 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 7694
 Ion Ratio Lower Upper
 180 100
 182 93.8 49.3 147.8
 145 22.9 16.2 48.6

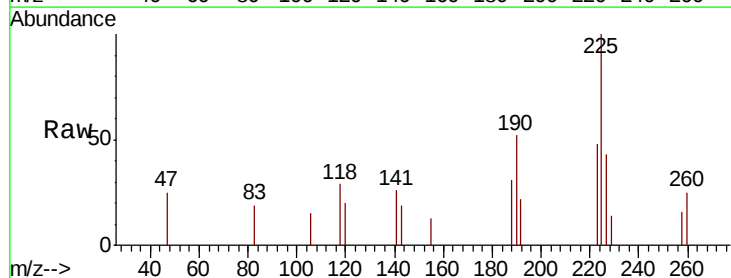


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

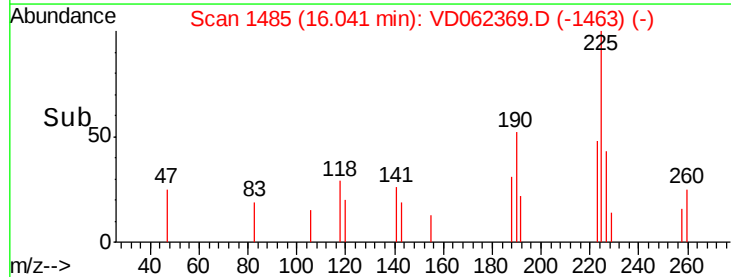
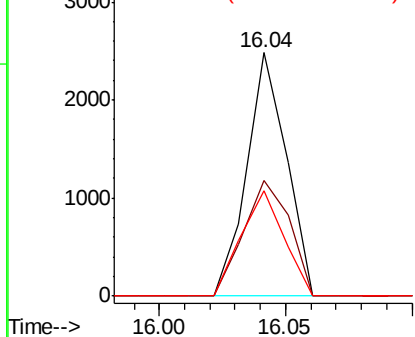


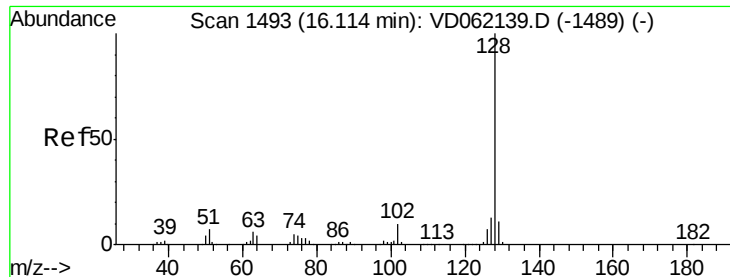
#94
 Hexachlorobutadiene
 Concen: 11.664 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.02 min
 Lab File: VD062369.D
 Acq: 15 May 2019 3:05

Tgt Ion:225 Resp: 2703
 Ion Ratio Lower Upper
 225 100
 223 47.7 30.6 92.0
 227 43.4 32.0 96.2



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

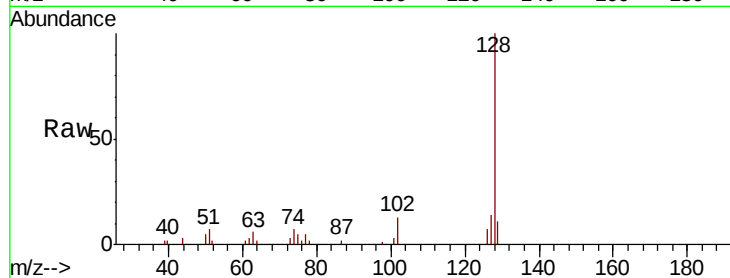




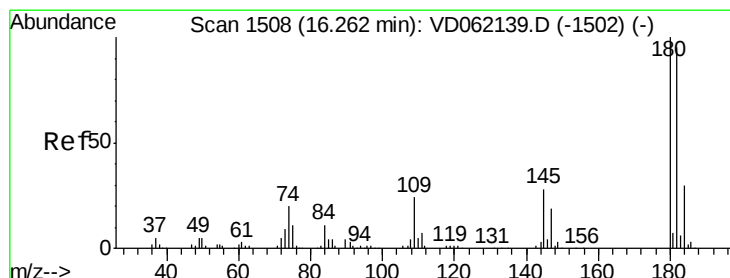
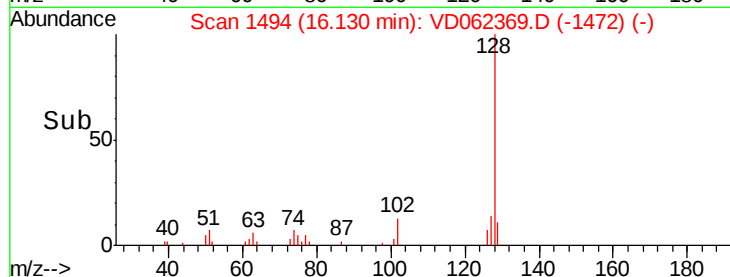
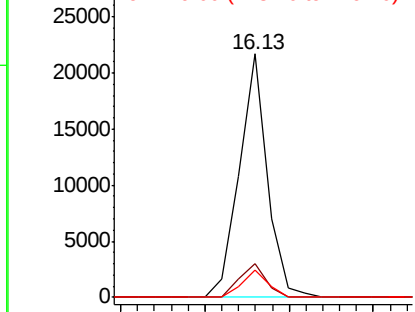
#95
Naphthalene
Concen: 57.324 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.02 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 24935
Ion Ratio Lower Upper
128 100
127 14.0 9.8 14.8
129 11.1 8.8 13.2

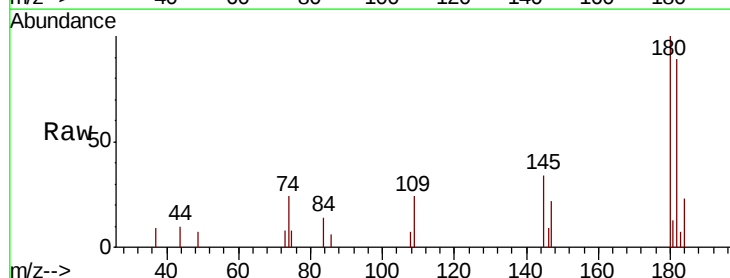


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 30.756 ug/l
RT: 16.28 min Scan# 1509
Delta R.T. 0.02 min
Lab File: VD062369.D
Acq: 15 May 2019 3:05

Tgt Ion:180 Resp: 6025
Ion Ratio Lower Upper
180 100
182 88.8 47.0 141.0
145 34.0 17.0 51.0



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

