

Data Path : W:\HPCHEM1\MSVOA_D\DATA\VD091815\
 Data File : VD046780.D
 Acq On : 18 Sep 2015 12:48
 Operator : FY/SY
 Sample : VSTDIC020
 Misc : 5.00gm/5mL/MSVOA_D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 9/21/2015 11:38:38 AM

Quant Time: Sep 18 13:43:49 2015
 Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 13:41:37 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.31	168	209685	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.43	114	269316	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.58	117	250644	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.92	152	133399	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.72	65	43607	21.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.26%	
35) Dibromofluoromethane	6.22	113	42662	20.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.00%	
50) Toluene-d8	9.62	98	134720	20.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.66%	
62) 4-Bromofluorobenzene	12.85	95	53737	23.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	46.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.43	85	45690	18.92	ug/l	100
3) Chlorodifluoromethane	1.44	51	38035	17.84	ug/l	94
4) Chloromethane	1.57	50	24848	16.97	ug/l	95
5) Vinyl Chloride	1.68	62	24175	18.37	ug/l	94
6) Bromomethane	1.98	94	21504	18.51	ug/l	90
7) Chloroethane	2.09	64	14198	18.23	ug/l	91
8) Trichlorofluoromethane	2.32	101	67312	20.42	ug/l	99
9) Diethyl Ether	2.63	74	11470	16.74	ug/l	93
10) 1,1,2-Trichlorotrifluoroet	2.90	101	42997	18.97	ug/l	97
11) Methyl Iodide	3.05	142	45037	17.06	ug/l	90
12) Tert butyl alcohol	3.67	59	10943	209.55	ug/l #	82
13) 1,1-Dichloroethene	2.88	96	34716	18.71	ug/l	98
14) Acrolein	2.79	56	11045	99.43	ug/l	85
15) Allyl chloride	3.33	41	68540	17.07	ug/l	88
16) Acrylonitrile	3.84	53	24658	84.23	ug/l	91
17) Acetone	2.94	43	34494	86.09	ug/l	94
18) Carbon Disulfide	3.13	76	129852	17.54	ug/l	99
19) Methyl Acetate	3.34	43	42805	17.82	ug/l	100
20) Methyl tert-butyl Ether	3.90	73	50766	18.08	ug/l	96
21) Methylene Chloride	3.51	84	39638	18.34	ug/l	92
22) trans-1,2-Dichloroethene	3.89	96	38261	18.06	ug/l	97
23) Diisopropyl ether	4.66	45	112876	16.85	ug/l	92
24) Vinyl Acetate	4.60	43	106397	79.61	ug/l	98
25) 1,1-Dichloroethane	4.56	63	69716	18.05	ug/l	99
26) 2-Butanone	5.46	43	39295	83.76	ug/l	100
27) 2,2-Dichloropropane	5.43	77	68714	19.01	ug/l	98
28) cis-1,2-Dichloroethene	5.44	96	40115	18.51	ug/l	82
29) Bromochloromethane	5.79	49	29583	19.37	ug/l	99
30) Chloroform	5.97	83	83731	19.21	ug/l	95
31) Cyclohexane	6.28	56	63881	16.92	ug/l	87
32) 1,1,1-Trichloroethane	6.19	97	76344	20.57	ug/l	95
36) 1,1-Dichloropropene	6.43	75	62270	18.74	ug/l	98
37) Ethyl Acetate	5.55	43	18933	18.56	ug/l	98
38) Carbon Tetrachloride	6.41	117	65041	20.65	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.09	83	63241	17.88	ug/l	95
40) Benzene	6.72	78	160735	18.99	ug/l	99
41) Methacrylonitrile	5.76	41	10718	16.54	ug/l #	86
42) 1,2-Dichloroethane	6.84	62	48625	19.76	ug/l	94
43) Isopropyl Acetate	8.42	43	24576	17.04	ug/l #	96
44) Trichloroethene	7.75	130	38420	17.71	ug/l	92
45) 1,2-Dichloropropane	8.15	63	38930	18.36	ug/l	97
46) Dibromomethane	8.28	93	22262	20.14	ug/l	93
47) Bromodichloromethane	8.56	83	57091	19.51	ug/l	100
48) Methyl methacrylate	8.09	41	42272	18.74	ug/l	96
49) 1,4-Dioxane	8.30	88	3242	443.42	ug/l #	83
51) 4-Methyl-2-Pentanone	9.49	43	93869	93.36	ug/l	95
52) Toluene	9.73	92	100965	20.00	ug/l	98
53) t-1,3-Dichloropropene	10.12	75	40919	18.47	ug/l	99
54) cis-1,3-Dichloropropene	9.23	75	54608	18.69	ug/l	94
55) 1,1,2-Trichloroethane	10.40	97	24518	20.46	ug/l	91
56) Ethyl methacrylate	10.24	69	20311	17.63	ug/l	96
57) 1,3-Dichloropropane	10.61	76	46071	20.03	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.04	63	59086	92.95	ug/l	98
59) 2-Hexanone	10.71	43	67001	93.51	ug/l	96
60) Dibromochloromethane	10.89	129	33409	20.03	ug/l	98
61) 1,2-Dibromoethane	11.02	107	23520	20.15	ug/l	93
64) Tetrachloroethene	10.48	164	39460	17.59	ug/l	98
65) Chlorobenzene	11.61	112	103070	18.72	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	38202	18.69	ug/l	98
67) Ethyl Benzene	11.74	91	210187	18.70	ug/l	96
68) m/p-Xylenes	11.89	106	134744	38.34	ug/l	93
69) o-Xylene	12.29	106	60545	19.34	ug/l	93
70) Styrene	12.32	104	104250	19.56	ug/l	99
71) Bromoform	12.51	173	20903	20.56	ug/l	97
73) Isopropylbenzene	12.67	105	184429	17.90	ug/l	96
74) N-amyl acetate	12.51	43	36365	15.93	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.99	83	28993	18.84	ug/l	93
76) 1,2,3-Trichloropropane	13.04	75	30509	18.32	ug/l	96
77) Bromobenzene	12.98	156	46132	18.15	ug/l	92
78) n-propylbenzene	13.08	91	261813	18.36	ug/l	98
79) 2-Chlorotoluene	13.16	91	142751	18.15	ug/l	98
80) 1,3,5-Trimethylbenzene	13.26	105	148606	18.56	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.74	75	7151	16.82	ug/l	95
82) 4-Chlorotoluene	13.27	91	172174	18.71	ug/l	94
83) tert-Butylbenzene	13.54	119	129698m	19.24	ug/l	
84) 1,2,4-Trimethylbenzene	13.59	105	149349	18.64	ug/l	97
85) sec-Butylbenzene	13.74	105	194410	18.71	ug/l	96
86) p-Isopropyltoluene	13.88	119	154979	18.95	ug/l	99
87) 1,3-Dichlorobenzene	13.85	146	83539	18.21	ug/l	96
88) 1,4-Dichlorobenzene	13.95	146	85080	18.76	ug/l	100
89) n-Butylbenzene	14.22	91	173216	19.00	ug/l	99
90) Hexachloroethane	14.48	117	34966	19.15	ug/l	88
91) 1,2-Dichlorobenzene	14.24	146	72603	19.36	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.89	75	3529	18.60	ug/l	87

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ClientSampleId :
VSTDICC020

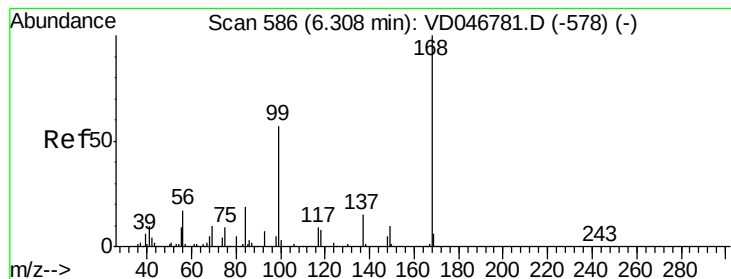
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.58	180	38972	17.50	ug/l	99
94) Hexachlorobutadiene	15.69	225	32216	17.75	ug/l	95
95) Naphthalene	15.83	128	46580	18.05	ug/l	99
96) 1,2,3-Trichlorobenzene	16.03	180	34324	18.57	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.31 min Scan# 586

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 168 Resp: 209685

Ion Ratio Lower Upper

168 100

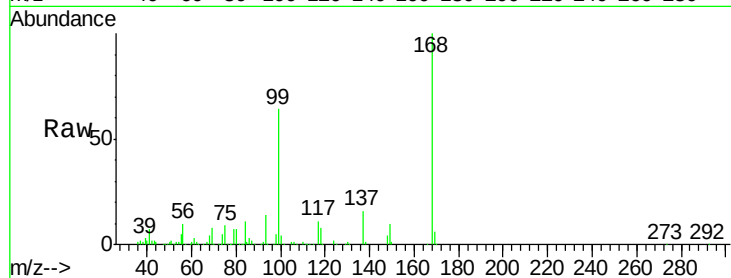
99 64.1 42.4 63.6#

Manual Integrations

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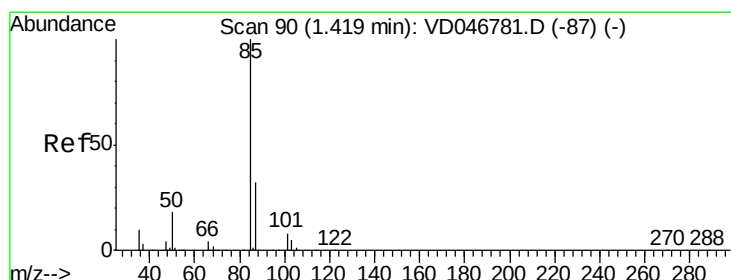
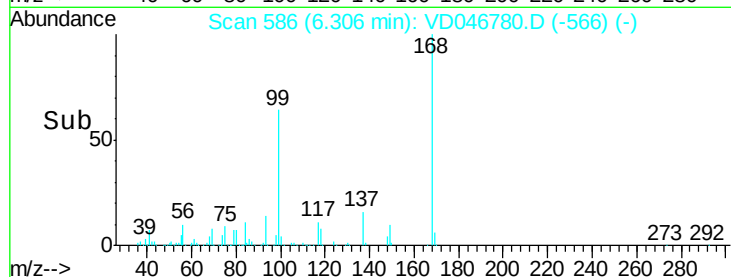
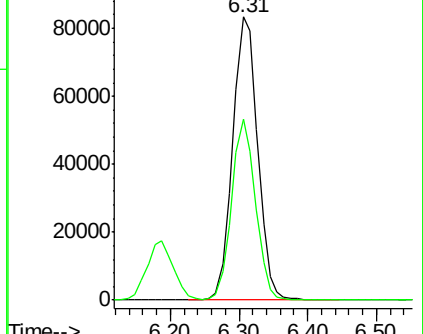
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 18.92 ug/l

RT: 1.43 min Scan# 91

Delta R.T. 0.01 min

Lab File: VD046780.D

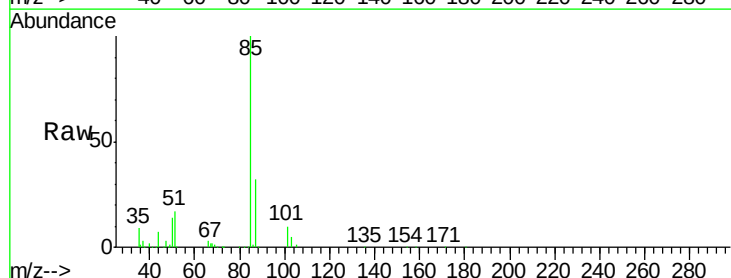
Acq: 18 Sep 2015 12:48

Tgt Ion: 85 Resp: 45690

Ion Ratio Lower Upper

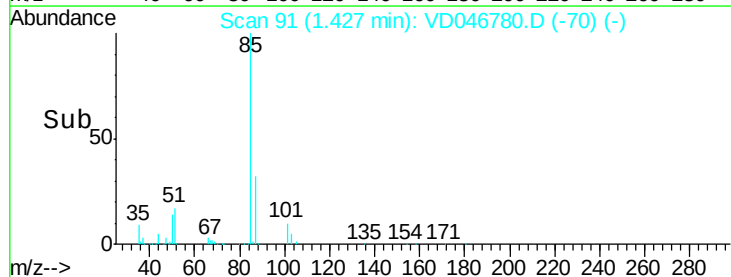
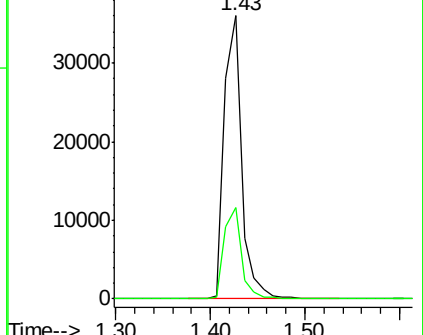
85 100

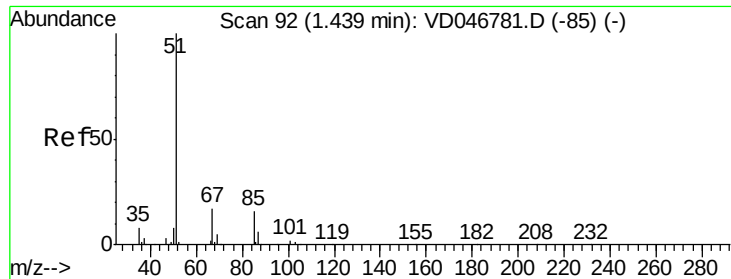
87 32.3 16.2 48.5



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chlorodifluoromethane

Concen: 17.84 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Lower	Upper
51	100		
67	16.2	10.9	16.3

Instrument :

MSVOA_D

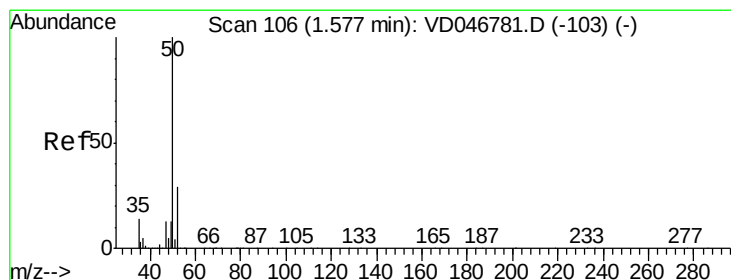
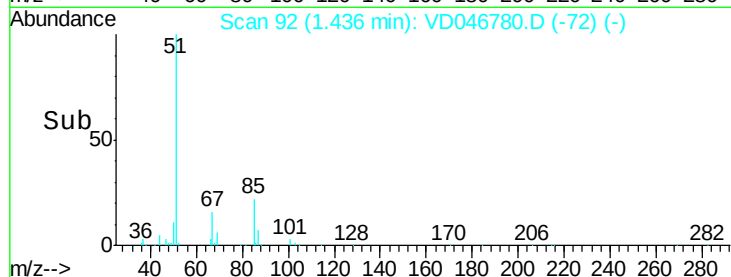
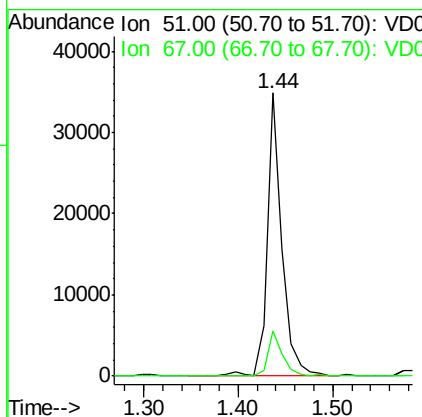
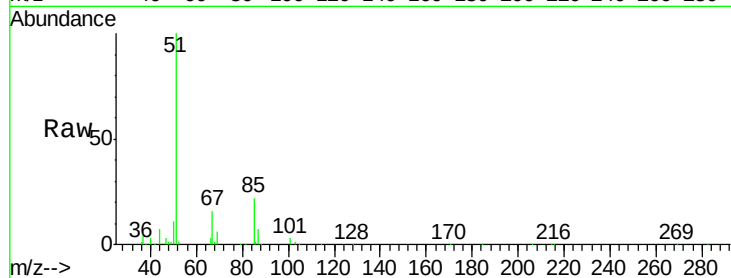
ClientSampleId :

VSTDIC020

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#4

Chloromethane

Concen: 16.97 ug/l

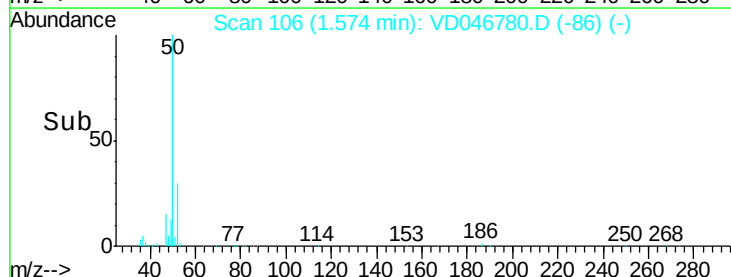
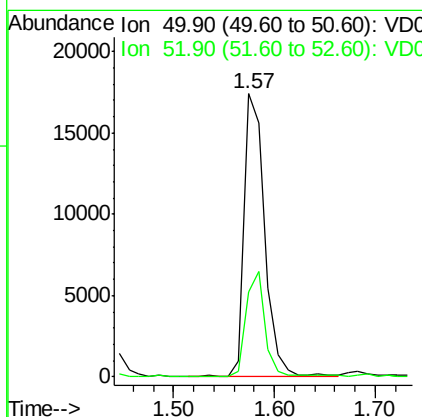
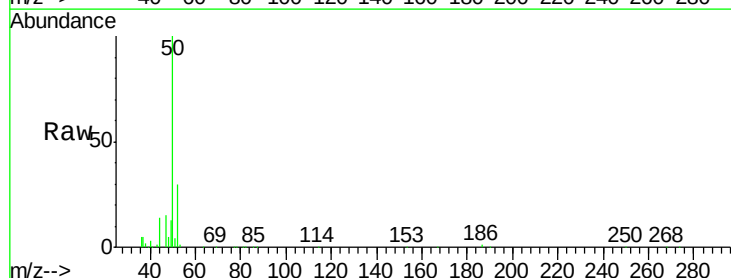
RT: 1.57 min Scan# 106

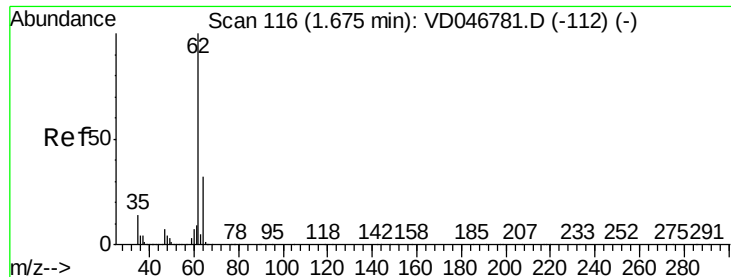
Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Lower	Upper
50	100		
52	30.1	26.2	39.2





#5

Vinyl Chloride

Concen: 18.37 ug/l

RT: 1.68 min Scan# 117

Delta R.T. 0.01 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

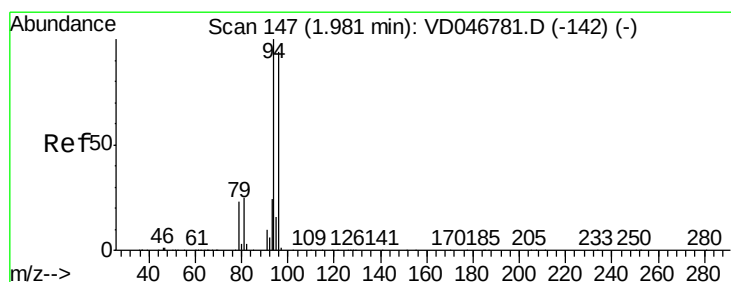
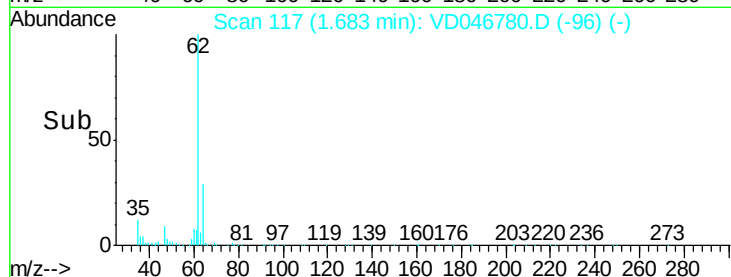
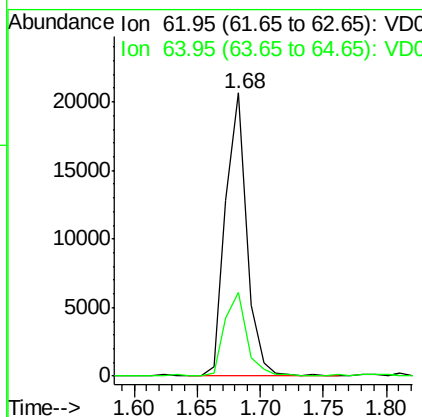
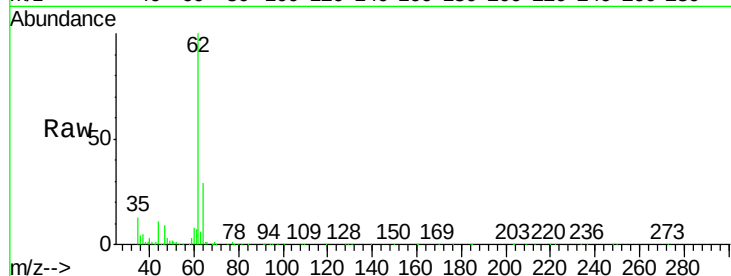
ClientSampleId :

VSTDIC020

Tgt Ion:	62	Resp:	24175
Ion Ratio	Lower	Upper	
62	100		
64	29.4	26.4	39.6

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9/21/2015 11:38:38 AM



#6

Bromomethane

Concen: 18.51 ug/l

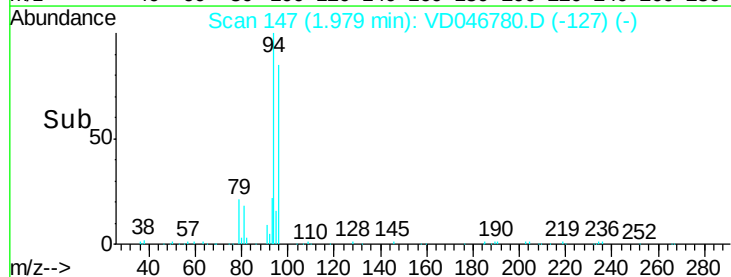
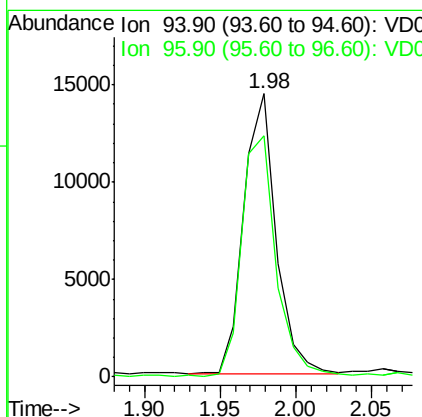
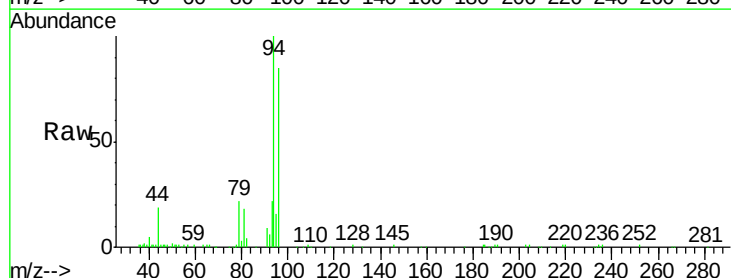
RT: 1.98 min Scan# 147

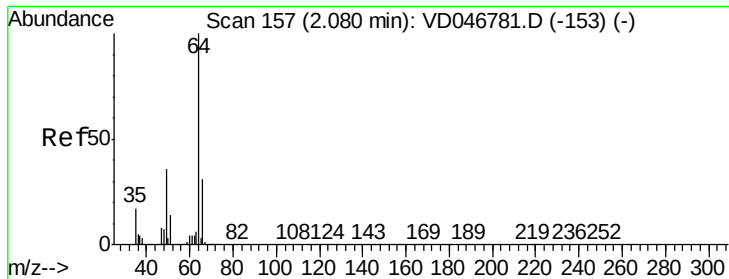
Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Tgt Ion:	94	Resp:	21504
Ion Ratio	Lower	Upper	
94	100		
96	85.0	76.0	114.0





#7

Chloroethane

Concen: 18.23 ug/l

RT: 2.09 min Scan# 158

Delta R.T. 0.01 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 64 Resp: 14198

Ion Ratio Lower Upper

64 100

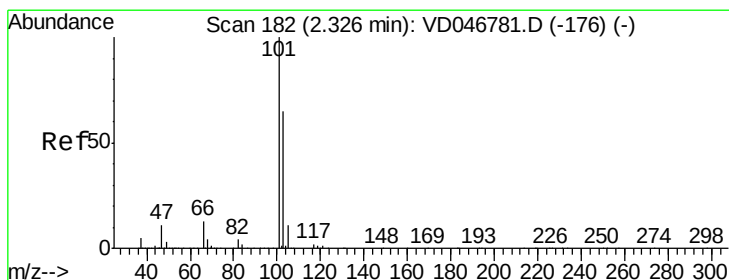
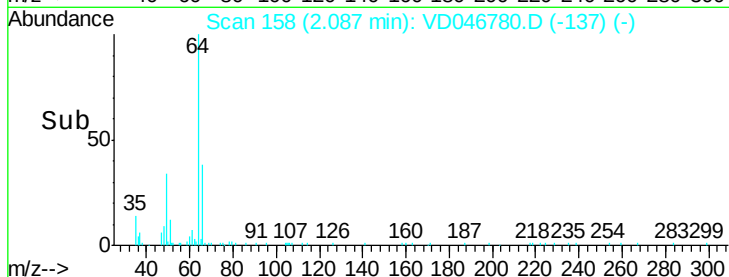
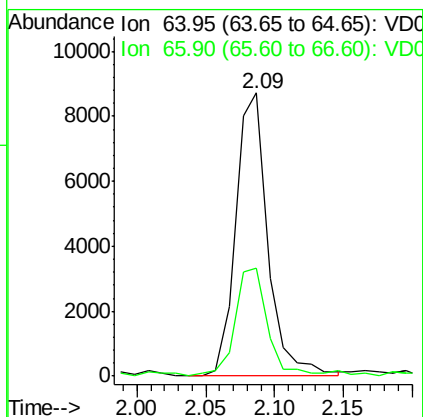
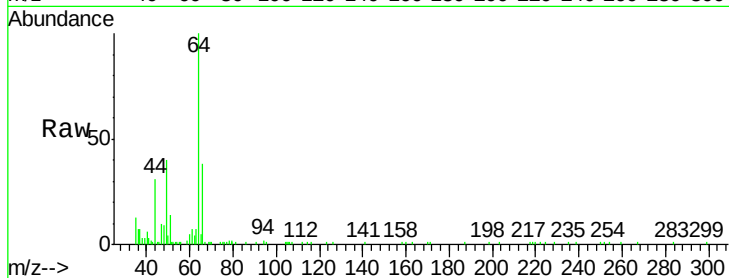
66 38.0 26.6 39.8

Manual Integrations

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9/21/2015 11:38:38 AM



#8

Trichlorofluoromethane

Concen: 20.42 ug/l

RT: 2.32 min Scan# 182

Delta R.T. -0.00 min

Lab File: VD046780.D

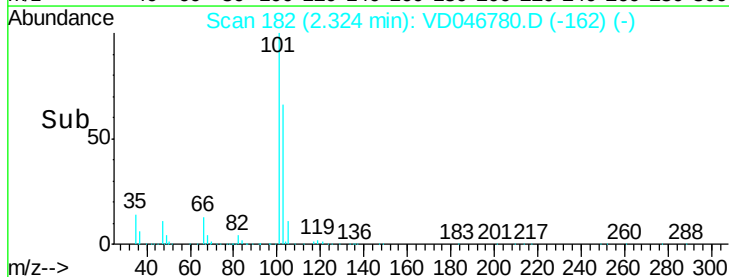
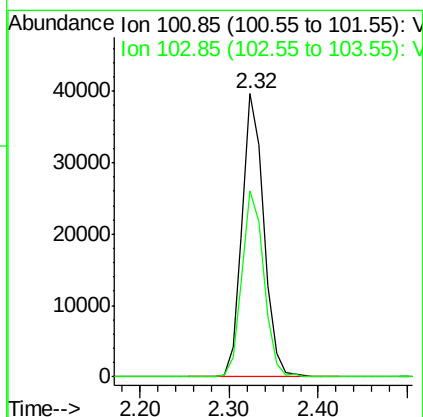
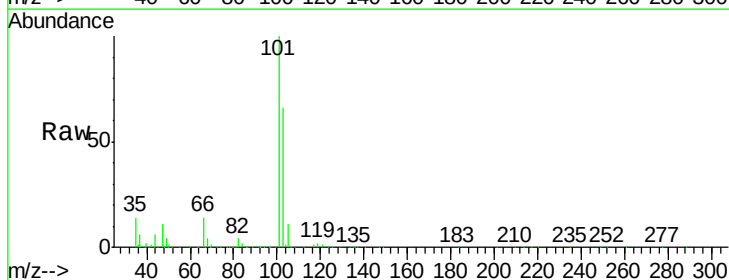
Acq: 18 Sep 2015 12:48

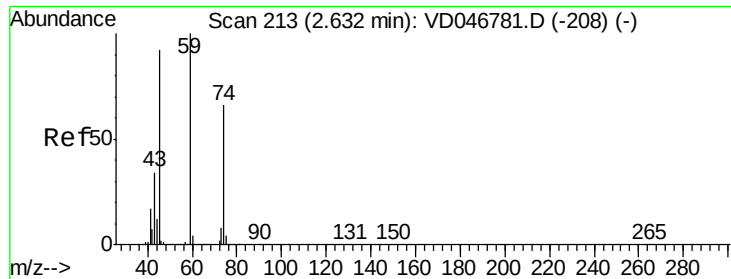
Tgt Ion: 101 Resp: 67312

Ion Ratio Lower Upper

101 100

103 65.6 53.2 79.8





#9

Diethyl Ether

Concen: 16.74 ug/l

RT: 2.63 min Scan# 213

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

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MSVOA_D

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Tgt Ion: 74 Resp: 11470

Ion Ratio Lower Upper

74 100

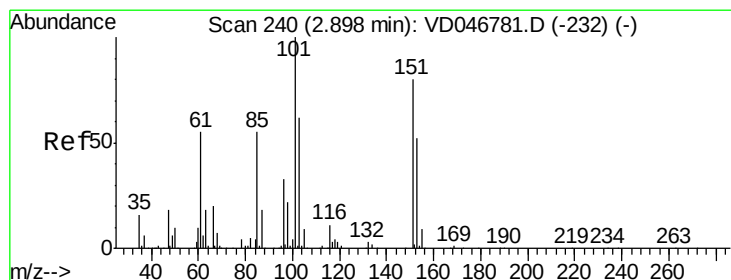
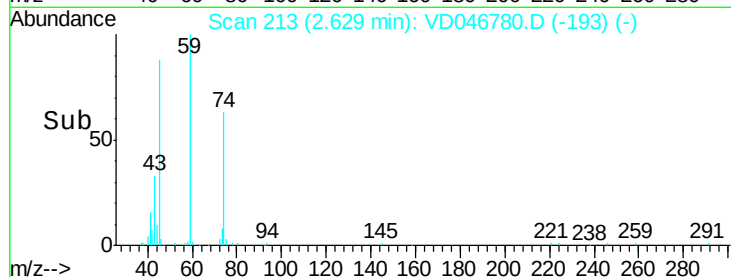
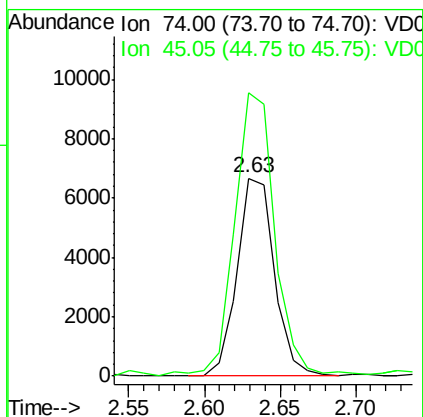
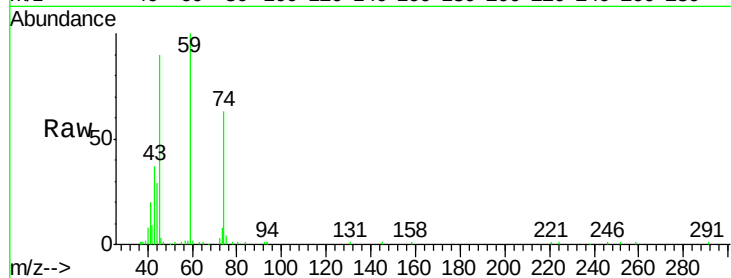
45 143.2 76.2 228.6

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9/21/2015 11:38:38 AM



#10

1,1,2-Trichlorotrifluoroethane

Concen: 18.97 ug/l

RT: 2.90 min Scan# 240

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

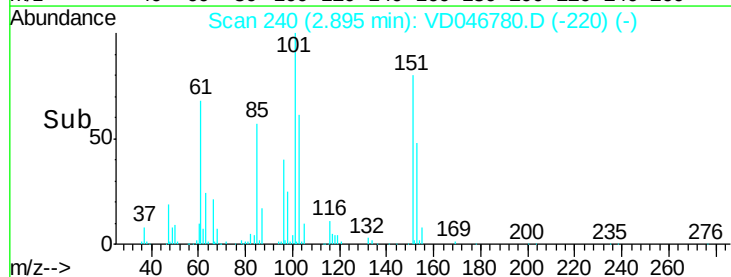
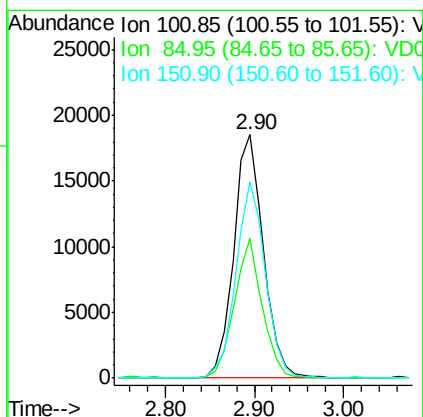
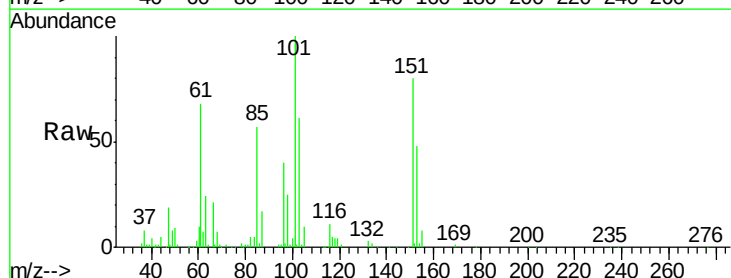
Tgt Ion: 101 Resp: 42997

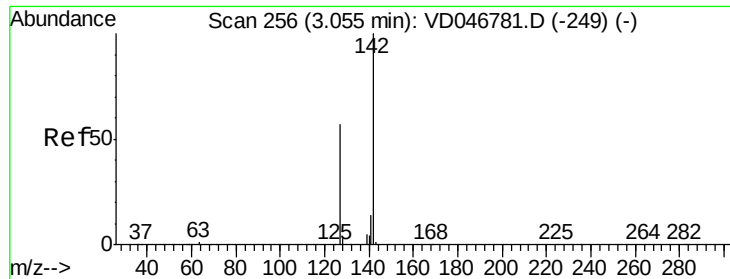
Ion Ratio Lower Upper

101 100

85 57.3 42.0 63.0

151 80.5 65.2 97.8





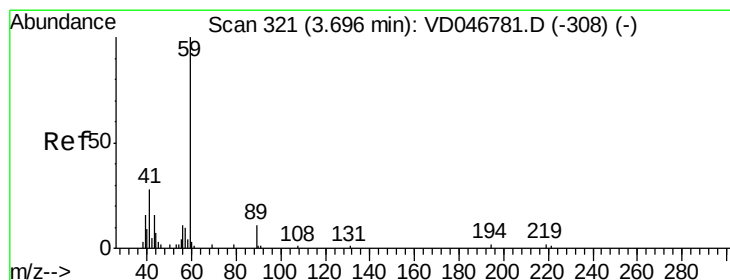
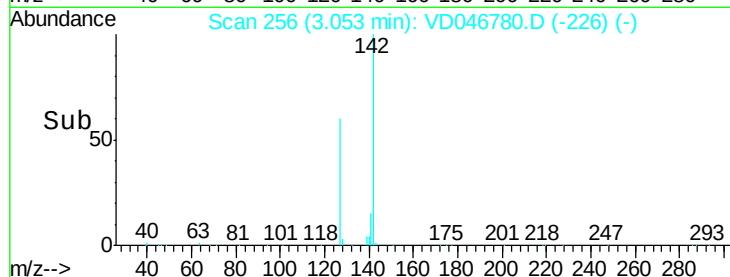
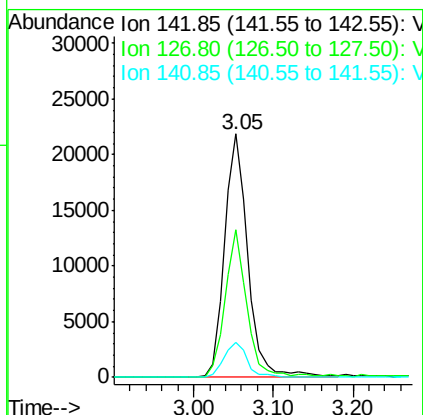
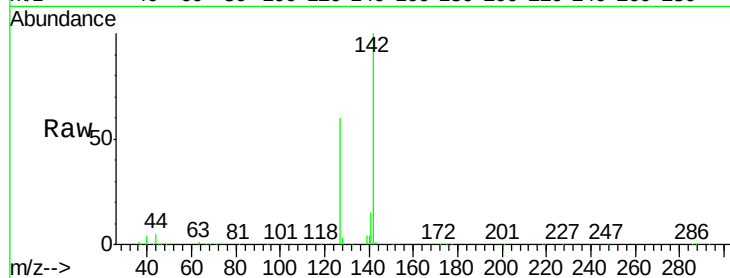
#11
Methyl Iodide
Concen: 17.06 ug/l
RT: 3.05 min Scan# 256
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
142	100		
127	60.4	41.2	61.8
141	14.5	11.6	17.4

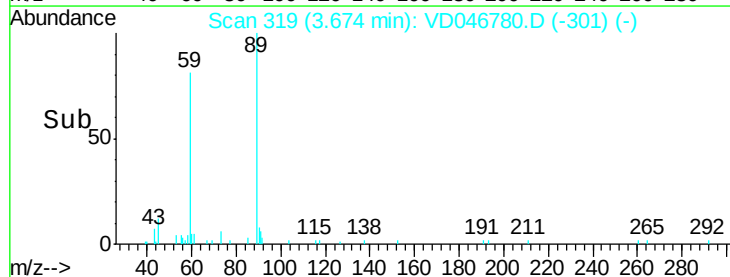
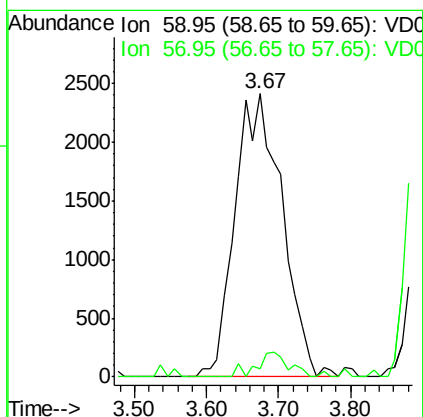
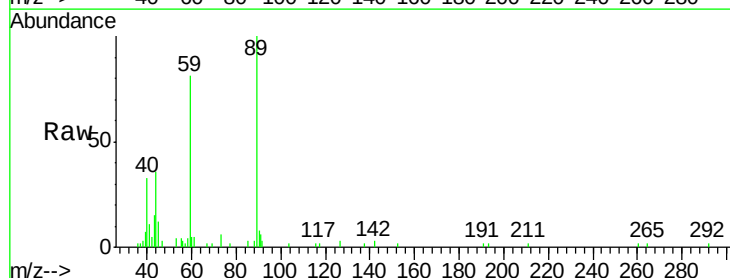
Manual Integrations
APPROVED

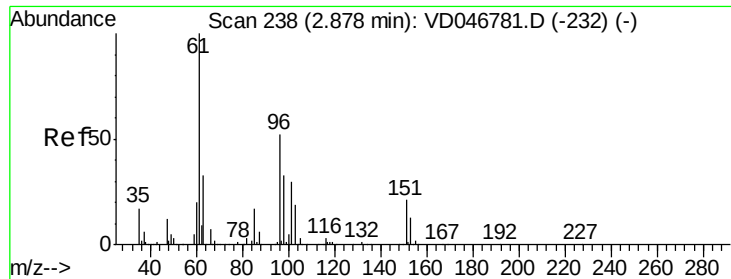
MMDadoda
9/21/2015 11:38:38 AM



#12
Tert butyl alcohol
Concen: 209.55 ug/l
RT: 3.67 min Scan# 319
Delta R.T. -0.02 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Lower	Upper
59	100		
57	3.0	7.8	11.6#





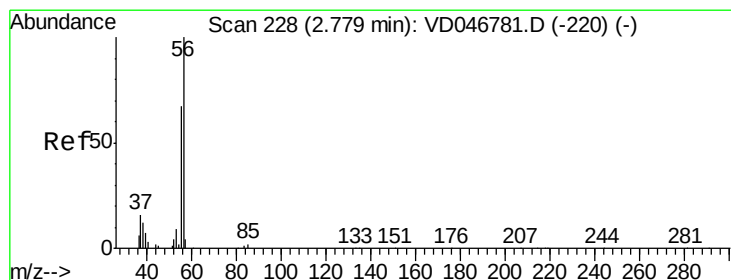
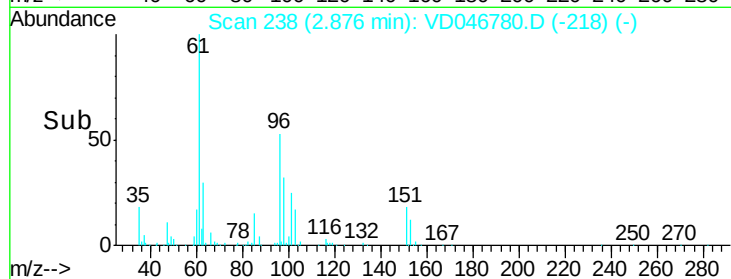
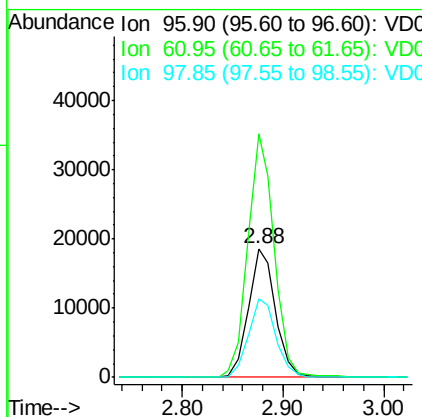
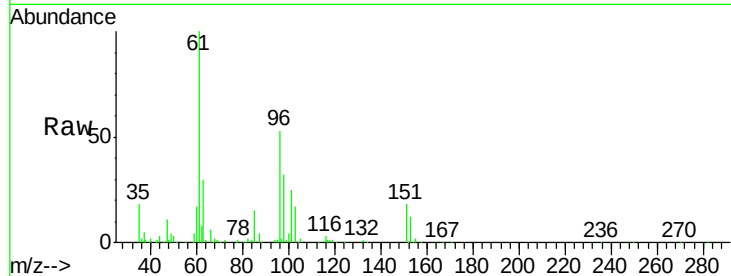
#13
 1,1-Dichloroethene
 Concen: 18.71 ug/l
 RT: 2.88 min Scan# 238
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
96	100		
61	189.0	152.2	228.4
98	60.8	51.2	76.8

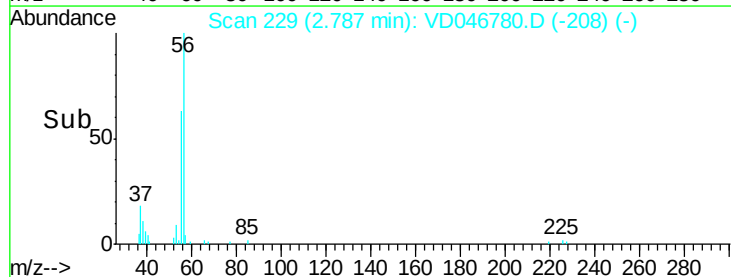
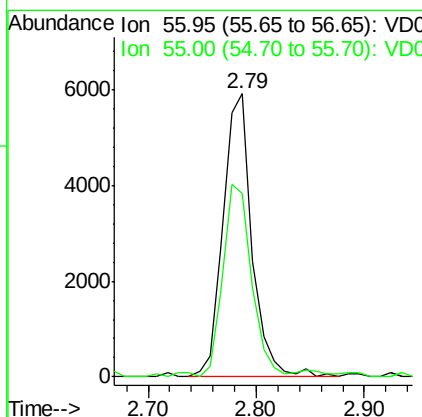
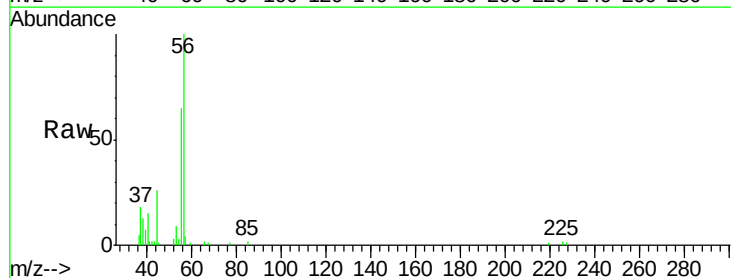
Manual Integrations
 APPROVED

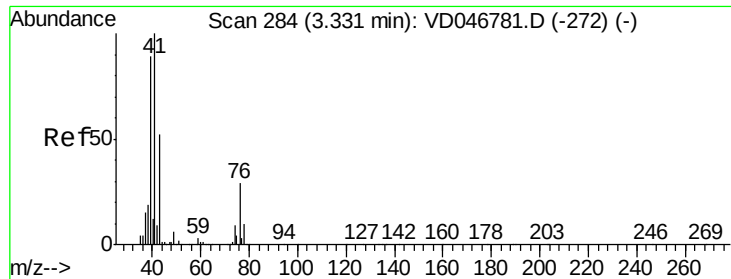
MMDadoda
 9/21/2015 11:38:38 AM



#14
 Acrolein
 Concen: 99.43 ug/l
 RT: 2.79 min Scan# 229
 Delta R.T. 0.01 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Lower	Upper
56	100		
55	64.8	62.6	93.8





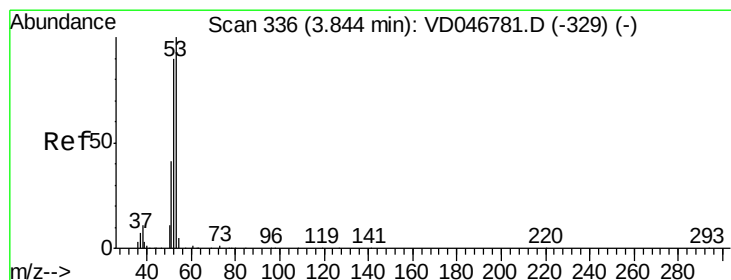
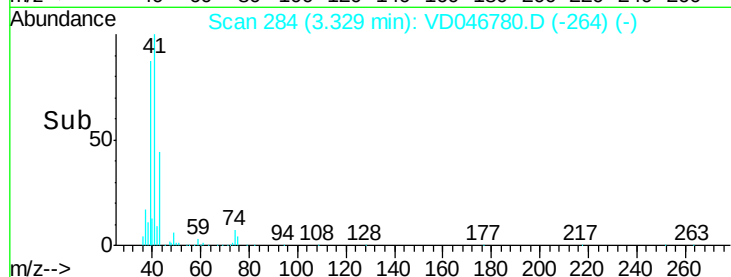
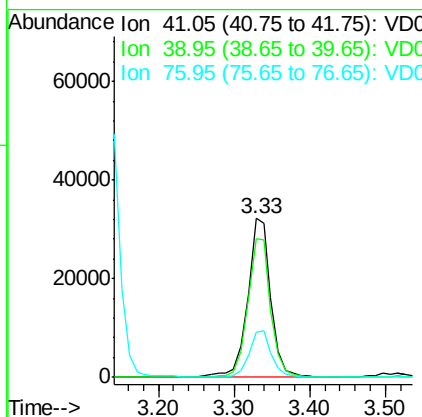
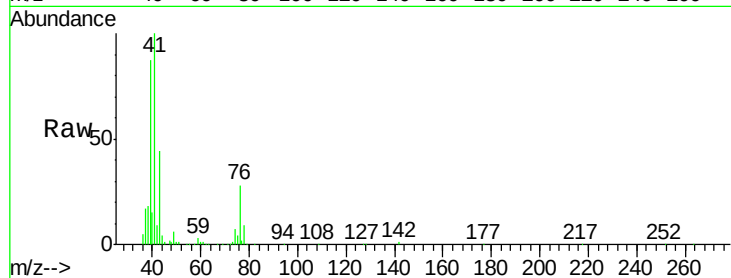
#15
 Allyl chloride
 Concen: 17.07 ug/l
 RT: 3.33 min Scan# 284
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion:	41	Resp:	68540
Ion	Ratio	Lower	Upper
41	100		
39	87.2	58.8	88.2
76	28.4	22.7	34.1

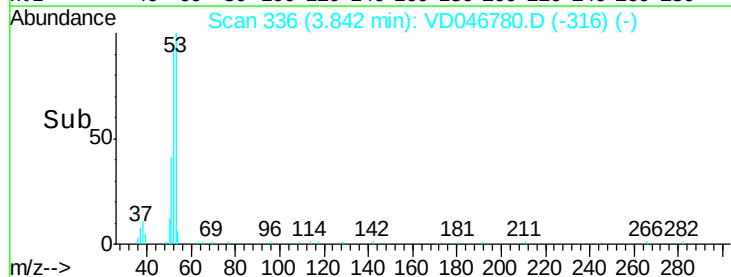
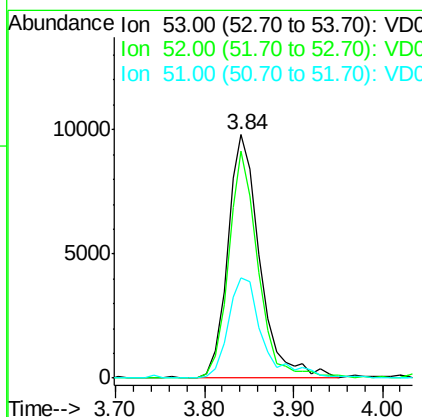
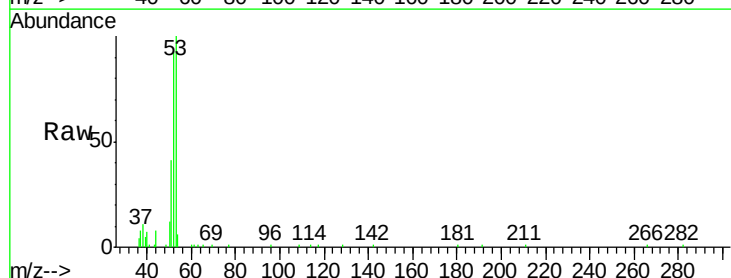
Manual Integrations
 APPROVED

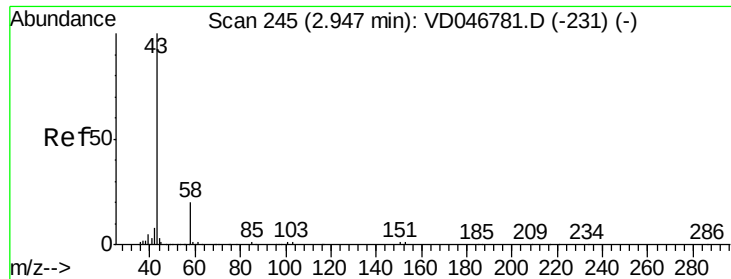
MMDadoda
 9/21/2015 11:38:38 AM



#16
 Acrylonitrile
 Concen: 84.23 ug/l
 RT: 3.84 min Scan# 336
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Tgt Ion:	53	Resp:	24658
Ion	Ratio	Lower	Upper
53	100		
52	93.2	66.8	100.2
51	41.4	31.2	46.8





#17

Acetone

Concen: 86.09 ug/l

RT: 2.94 min Scan# 245

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 34494

Ion Ratio Lower Upper

43 100

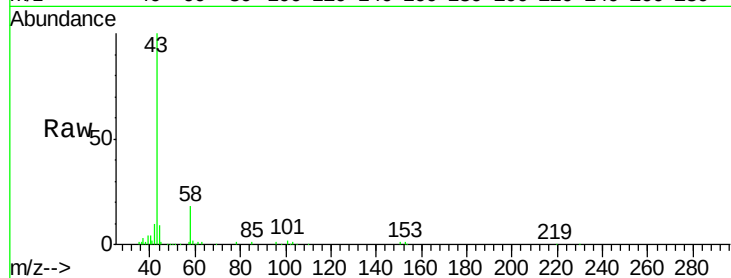
58 18.0 16.6 24.8

Manual Integrations

APPROVED

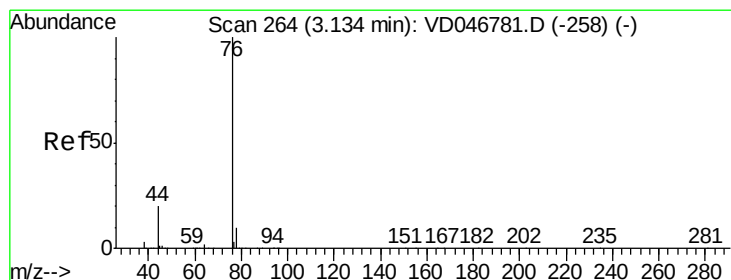
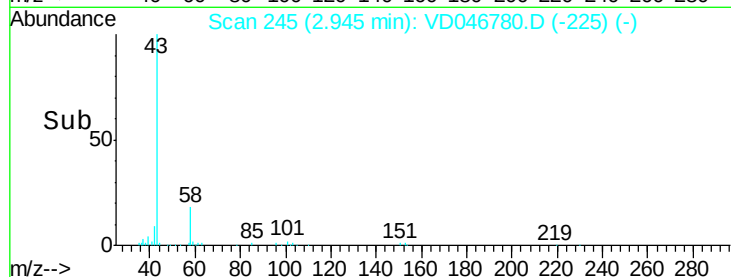
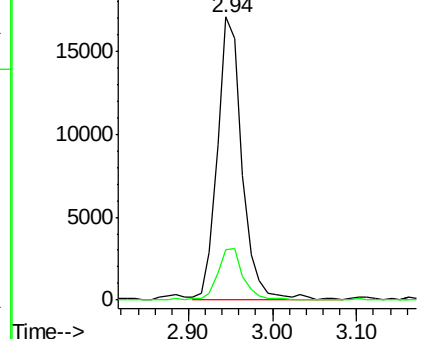
MMDadoda

9/21/2015 11:38:38 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Carbon Disulfide

Concen: 17.54 ug/l

RT: 3.13 min Scan# 264

Delta R.T. -0.00 min

Lab File: VD046780.D

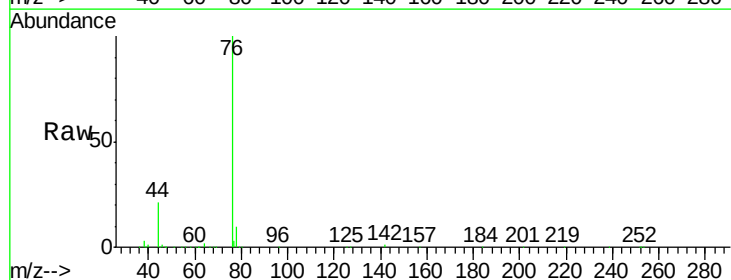
Acq: 18 Sep 2015 12:48

Tgt Ion: 76 Resp: 129852

Ion Ratio Lower Upper

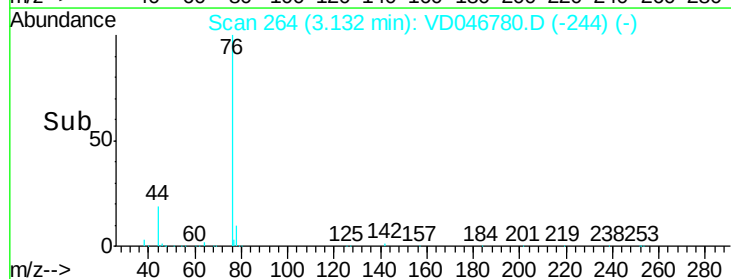
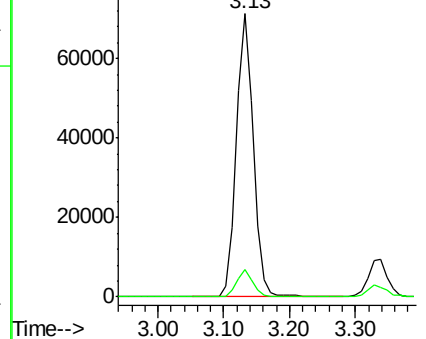
76 100

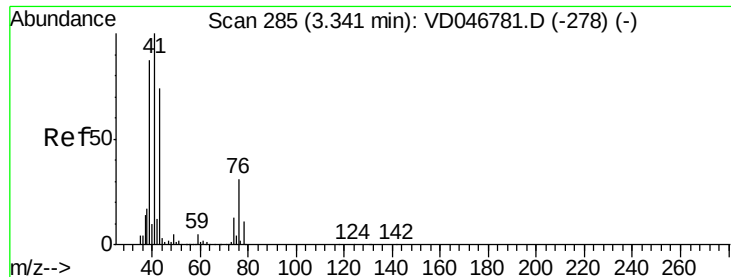
78 9.6 8.0 12.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC





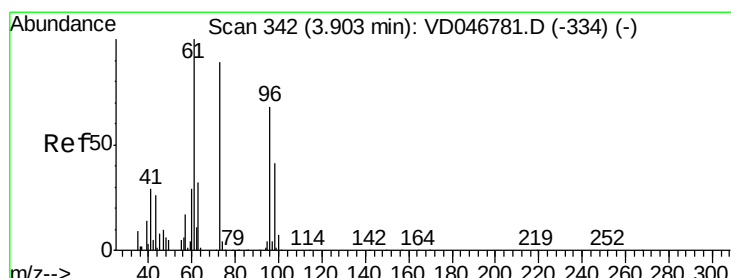
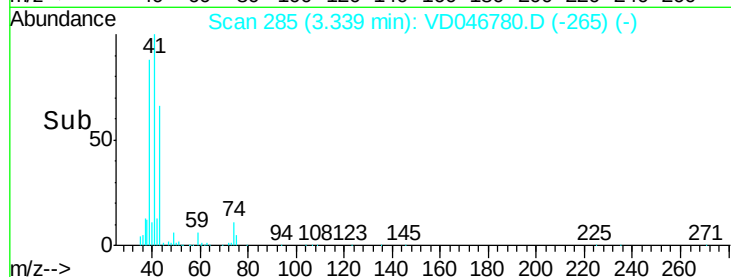
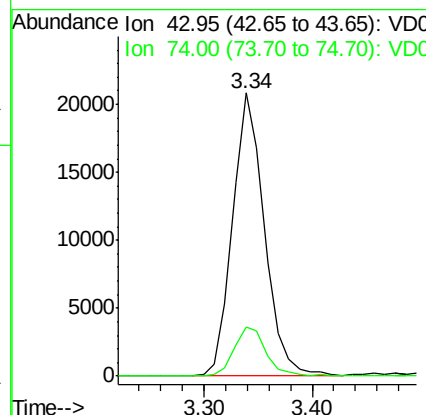
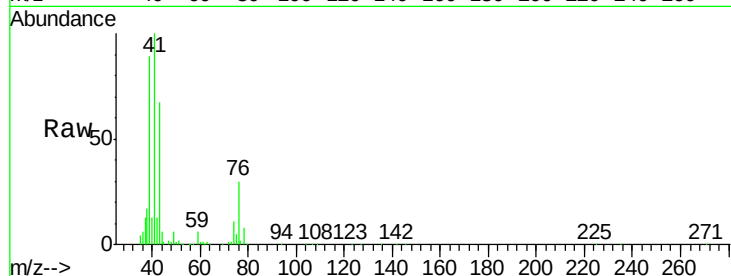
#19
Methyl Acetate
Concen: 17.82 ug/l
RT: 3.34 min Scan# 285
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 42805
Ion Ratio Lower Upper
43 100
74 17.2 13.7 20.5

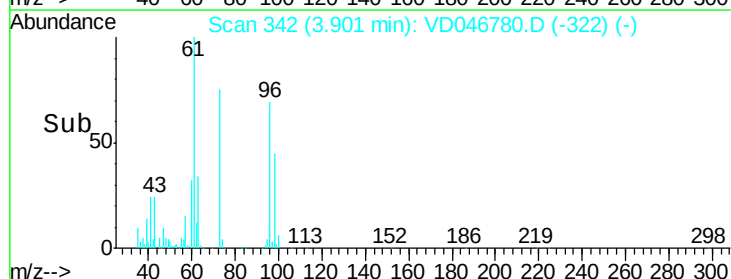
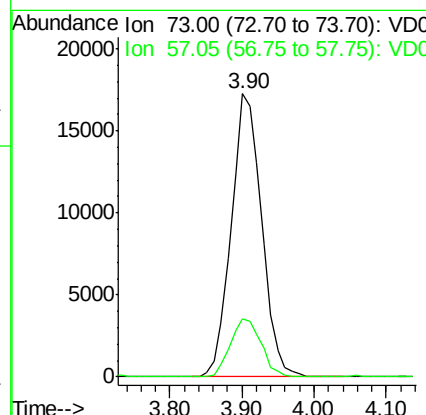
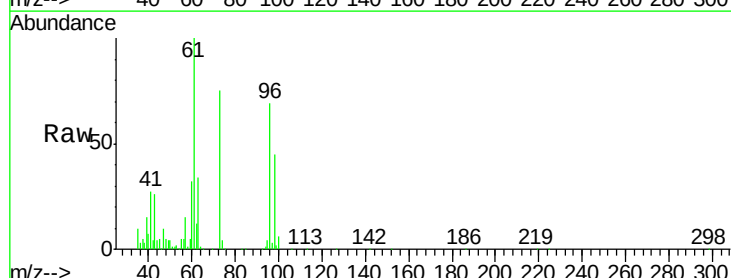
Manual Integrations
APPROVED

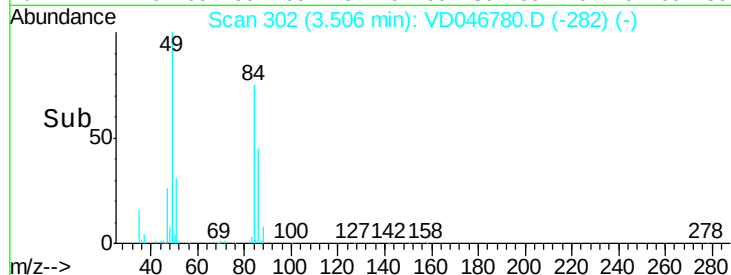
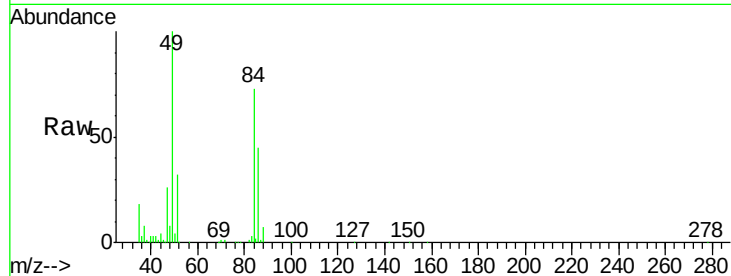
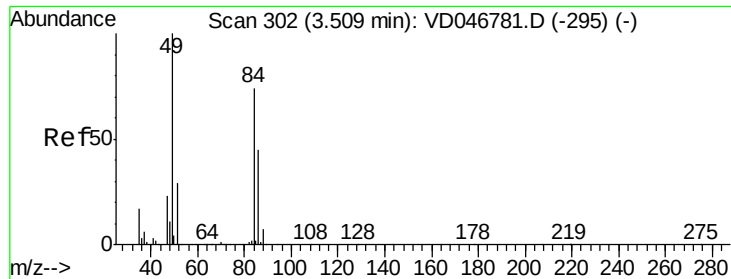
MMDadoda
9/21/2015 11:38:38 AM



#20
Methyl tert-butyl Ether
Concen: 18.08 ug/l
RT: 3.90 min Scan# 342
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion: 73 Resp: 50766
Ion Ratio Lower Upper
73 100
57 20.6 18.1 27.1





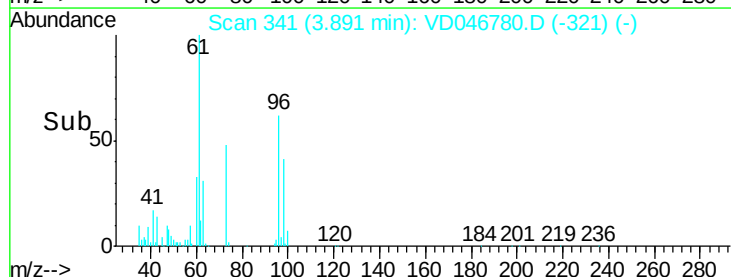
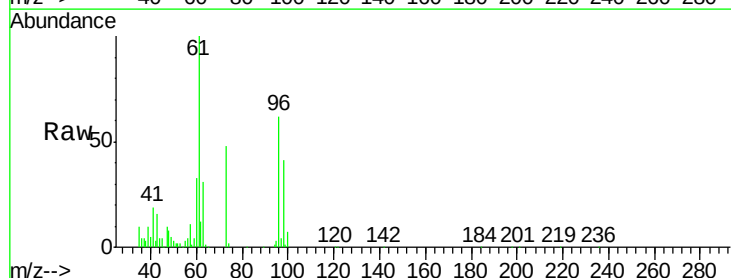
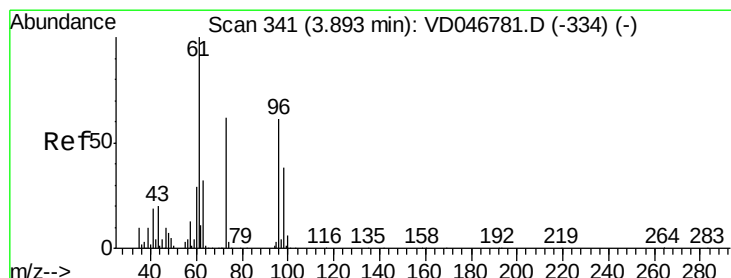
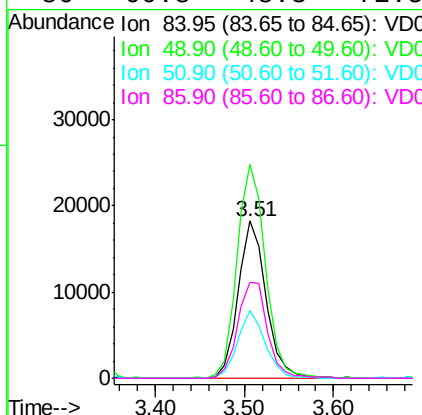
#21
Methylene Chloride
Concen: 18.34 ug/l
RT: 3.51 min Scan# 302
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Lower	Upper
84	100		
49	136.1	122.1	183.1
51	43.1	33.6	50.4
86	60.8	48.3	72.5

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

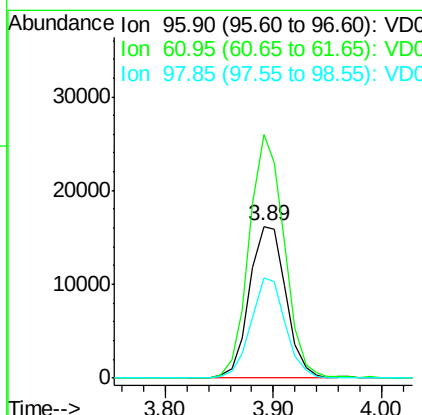
Manual Integrations
APPROVED

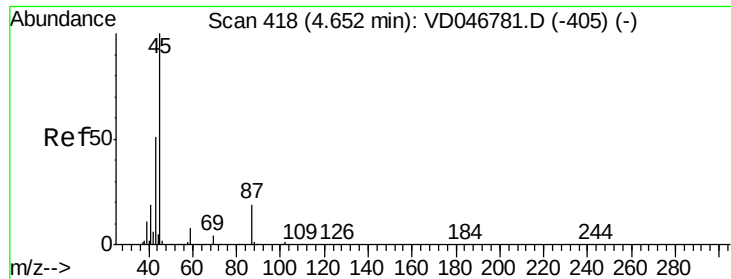
MMDadoda
9/21/2015 11:38:38 AM



#22
trans-1,2-Dichloroethene
Concen: 18.06 ug/l
RT: 3.89 min Scan# 341
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.6	125.8	188.6
98	66.1	54.5	81.7





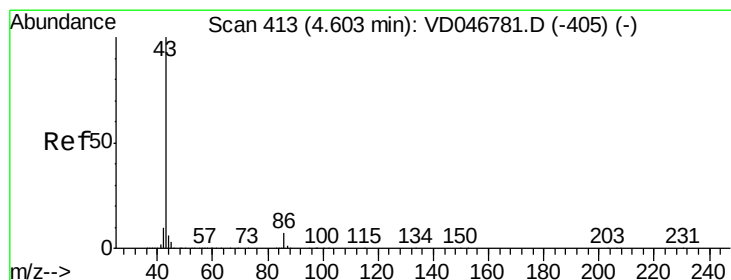
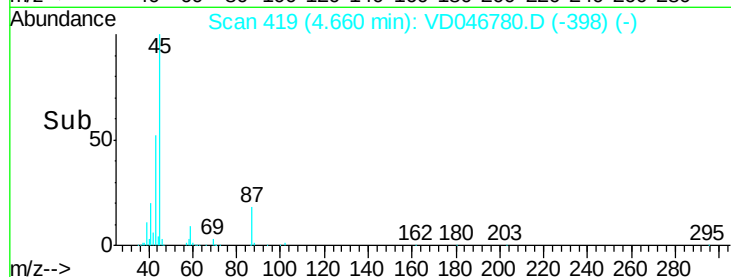
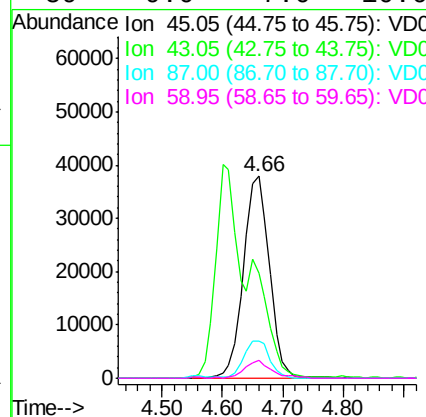
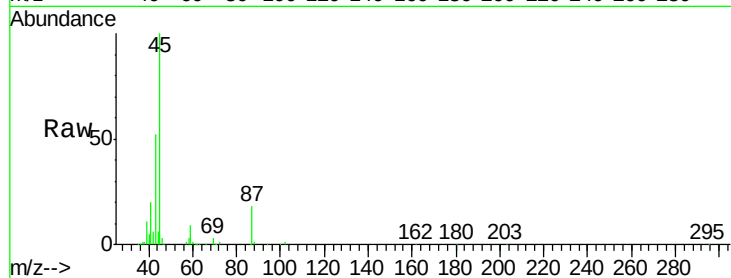
#23
Diisopropyl ether
Concen: 16.85 ug/l
RT: 4.66 min Scan# 419
Delta R.T. 0.01 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ion	Ratio	Lower	Upper
45	100			
43	52.0	35.9	53.9	
87	18.5	13.0	19.6	
59	9.0	7.0	10.6	

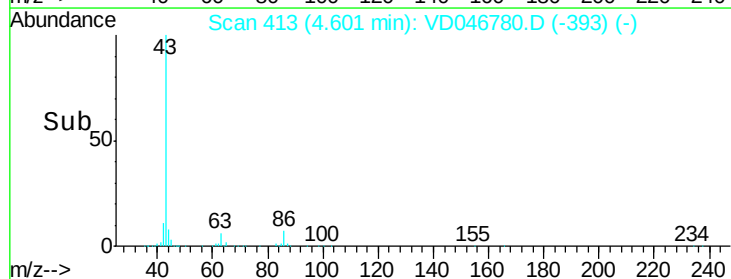
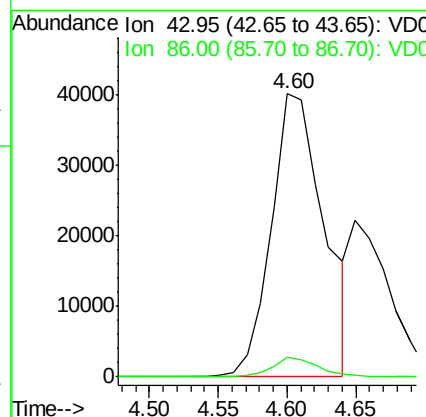
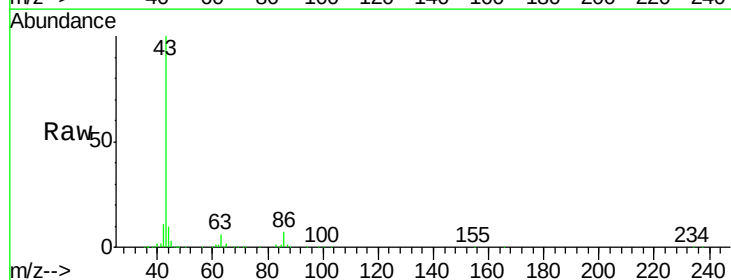
Manual Integrations
APPROVED

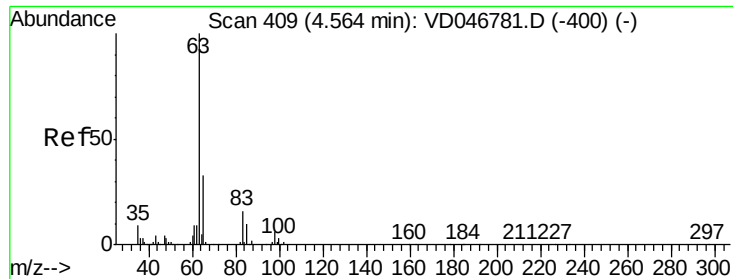
MMDadoda
9/21/2015 11:38:38 AM



#24
Vinyl Acetate
Concen: 79.61 ug/l
RT: 4.60 min Scan# 413
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
86	6.9	4.9	7.3	





#25

1,1-Dichloroethane

Concen: 18.05 ug/l

RT: 4.56 min Scan# 409

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

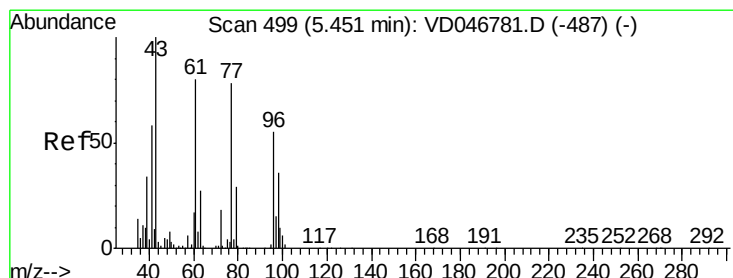
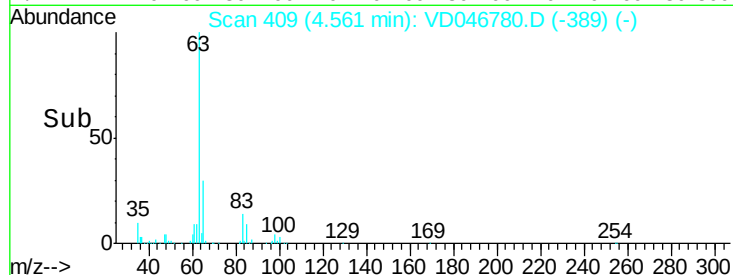
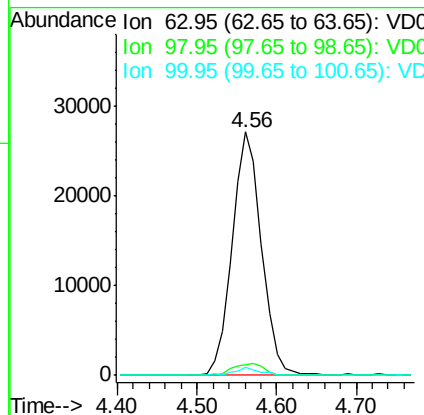
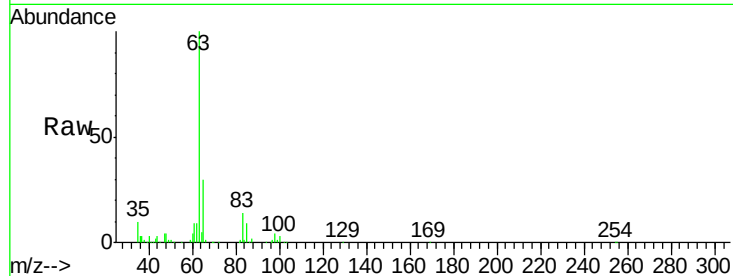
ClientSampleId :

VSTDIC020

Tgt Ion:	63	Resp:	69716
Ion Ratio	Lower	Upper	
63	100		
98	4.4	2.5	7.5
100	3.2	1.5	4.5

Manual Integrations
APPROVED

MMDadoda
9/21/2015 11:38:38 AM



#26

2-Butanone

Concen: 83.76 ug/l

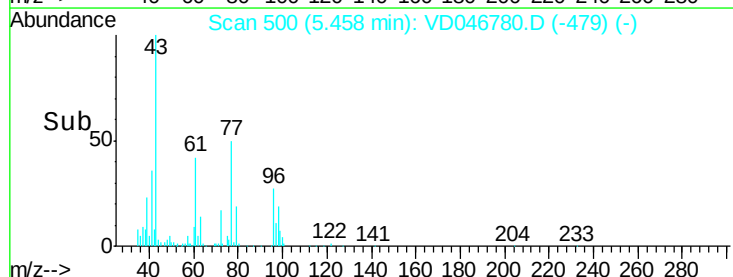
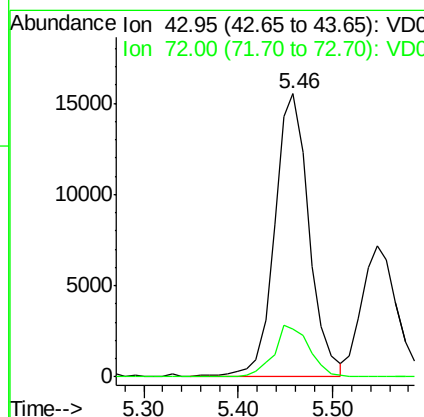
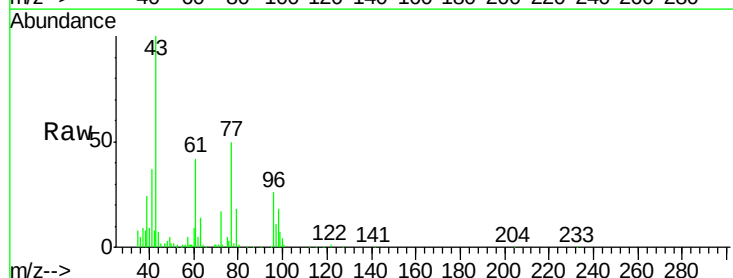
RT: 5.46 min Scan# 500

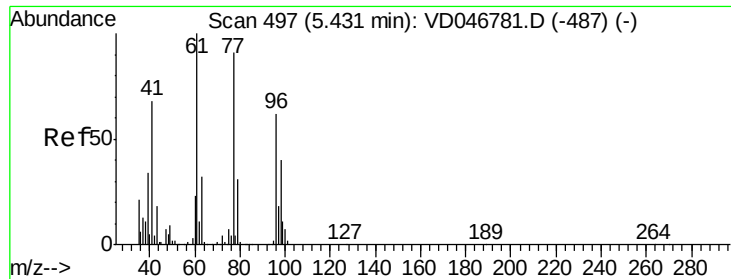
Delta R.T. 0.01 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Tgt Ion:	43	Resp:	39295
Ion Ratio	Lower	Upper	
43	100		
72	16.9	13.4	20.0





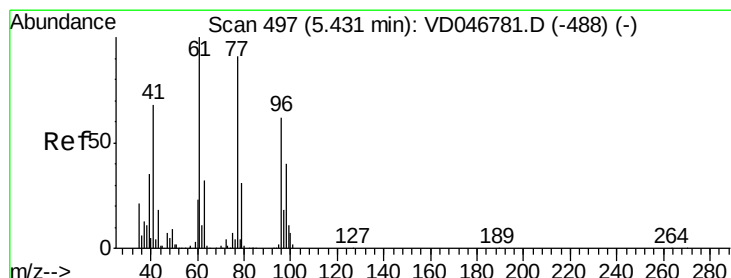
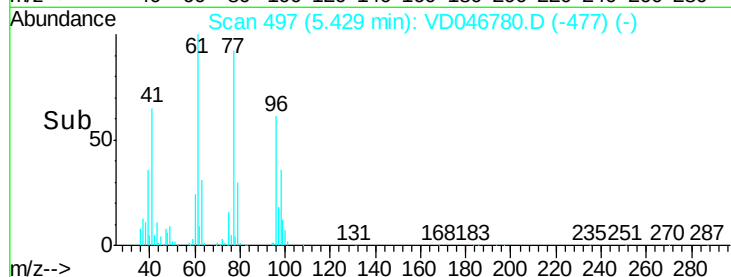
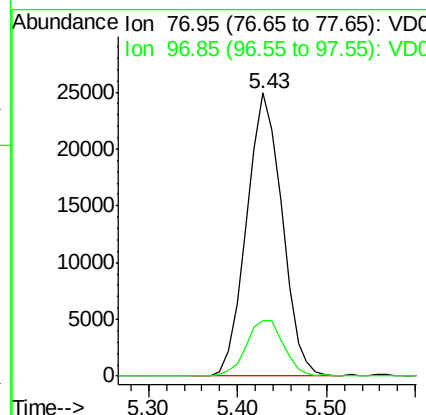
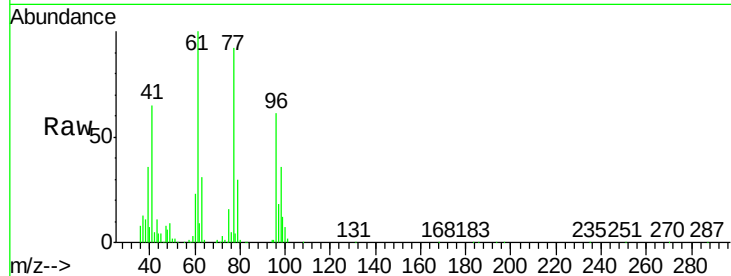
#27
 2,2-Dichloropropane
 Concen: 19.01 ug/l
 RT: 5.43 min Scan# 497
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion: 77 Resp: 68714
 Ion Ratio Lower Upper
 77 100
 97 19.7 10.4 31.1

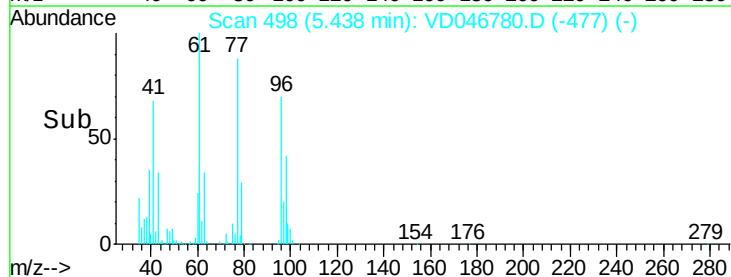
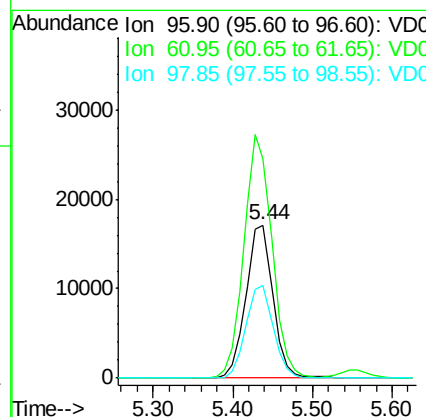
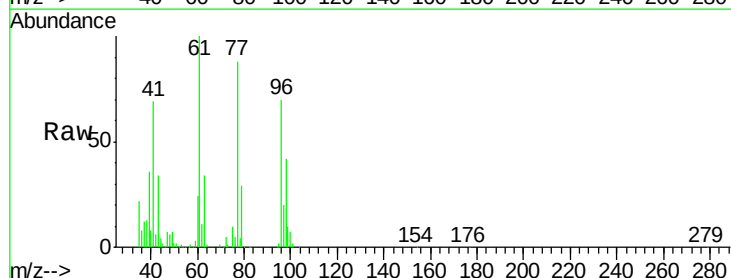
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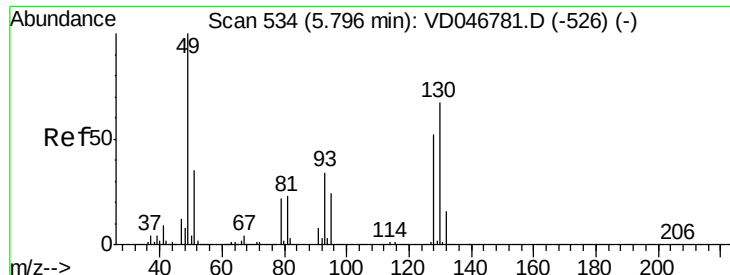
MMDadoda
 9/21/2015 11:38:38 AM



#28
 cis-1,2-Dichloroethene
 Concen: 18.51 ug/l
 RT: 5.44 min Scan# 498
 Delta R.T. 0.01 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Tgt Ion: 96 Resp: 40115
 Ion Ratio Lower Upper
 96 100
 61 143.3 0.0 348.0
 98 60.3 0.0 128.8





#29

Bromochloromethane

Concen: 19.37 ug/l

RT: 5.79 min Scan# 534

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 49 Resp: 29583
Ion Ratio Lower Upper

49 100

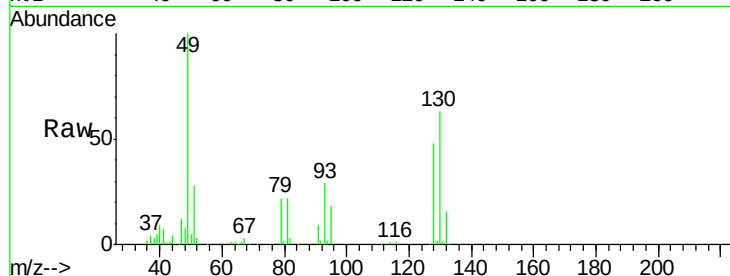
129 2.2 0.0 2.8

130 63.4 50.2 75.4

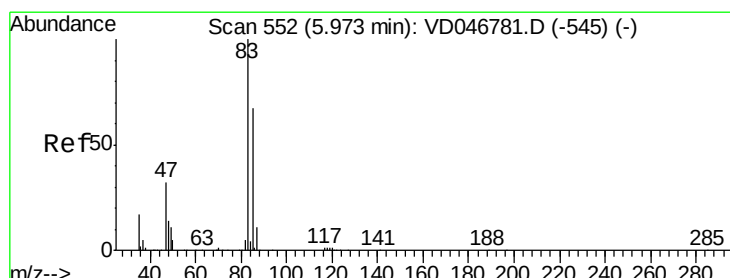
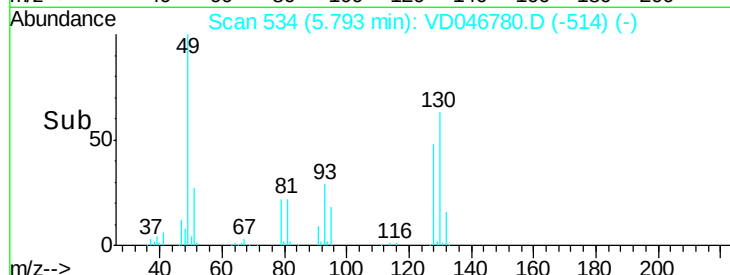
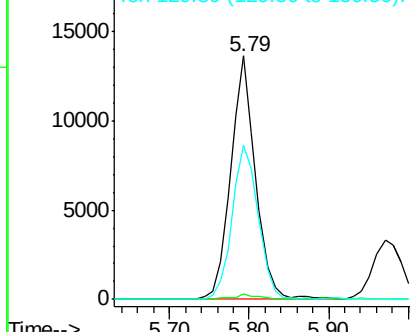
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Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): VDC
Ion 129.80 (129.50 to 130.50): VDC



#30

Chloroform

Concen: 19.21 ug/l

RT: 5.97 min Scan# 552

Delta R.T. -0.00 min

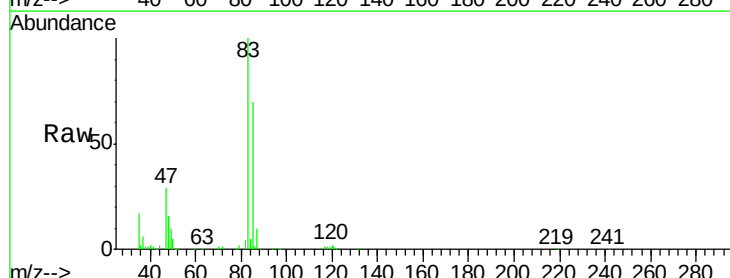
Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

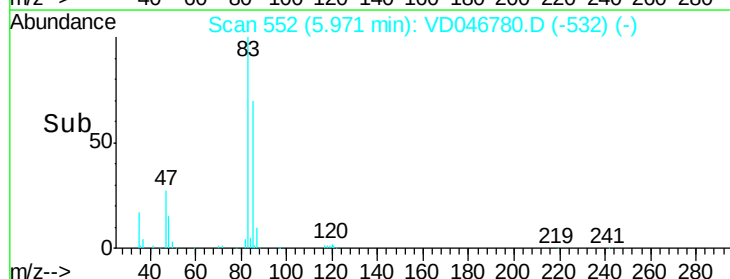
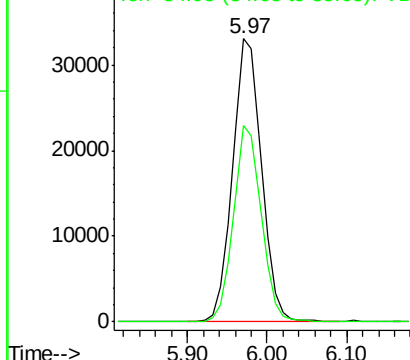
Tgt Ion: 83 Resp: 83731
Ion Ratio Lower Upper

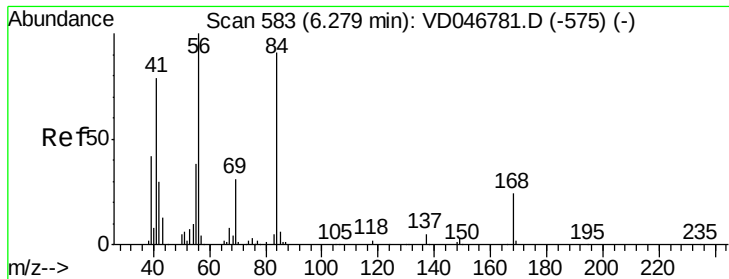
83 100

85 69.5 52.5 78.7



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC





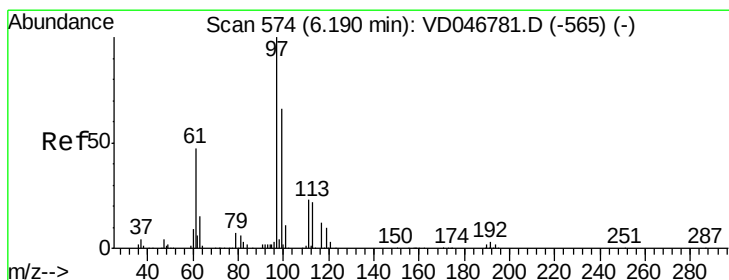
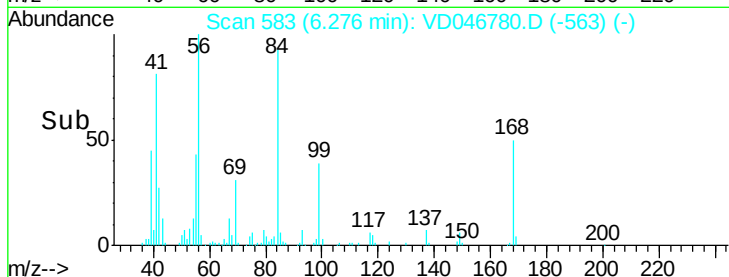
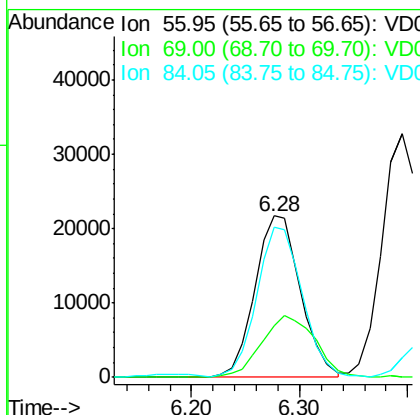
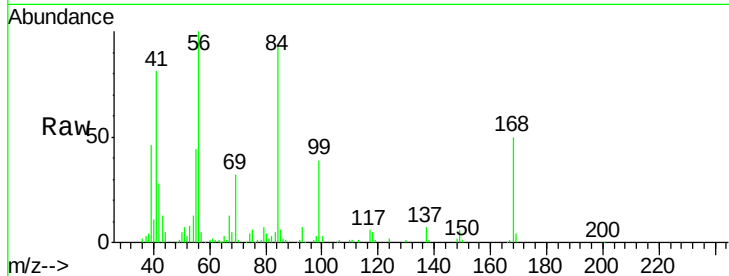
#31
Cyclohexane
Concen: 16.92 ug/l
RT: 6.28 min Scan# 583
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
56	100		
69	31.9	23.4	35.0
84	93.4	63.8	95.8

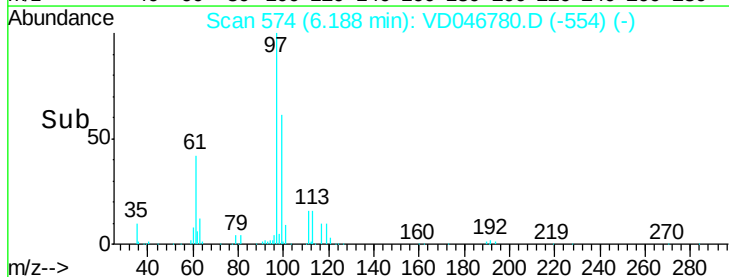
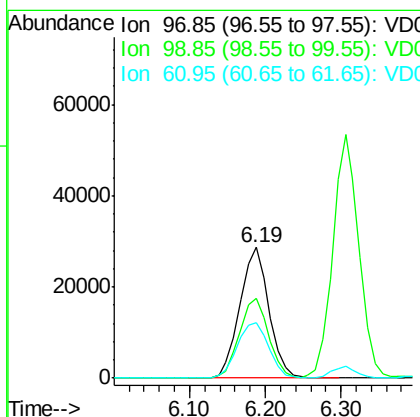
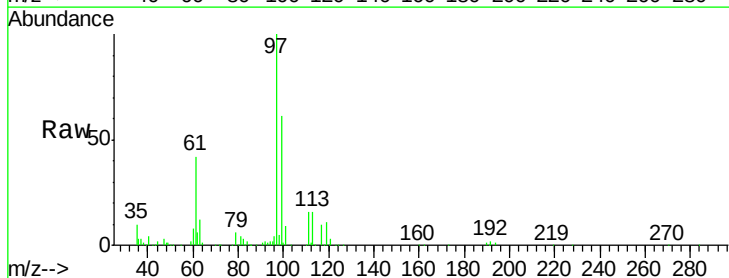
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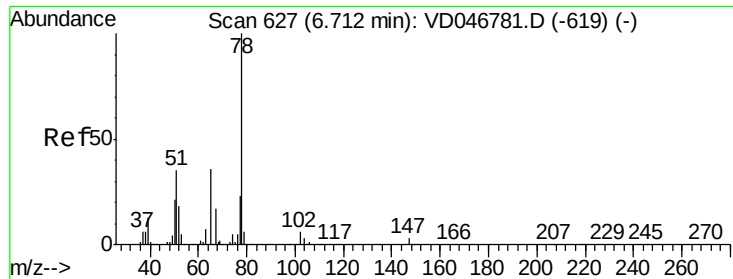
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 20.57 ug/l
RT: 6.19 min Scan# 574
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.3	50.2	75.4
61	42.1	38.6	57.8





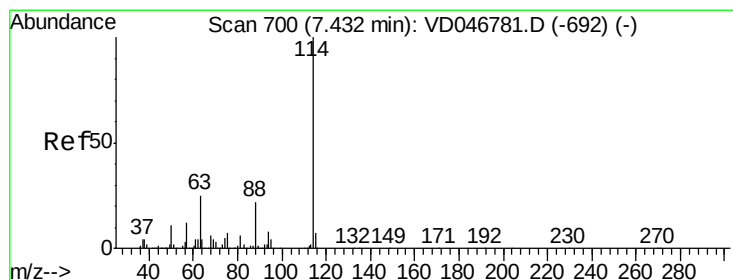
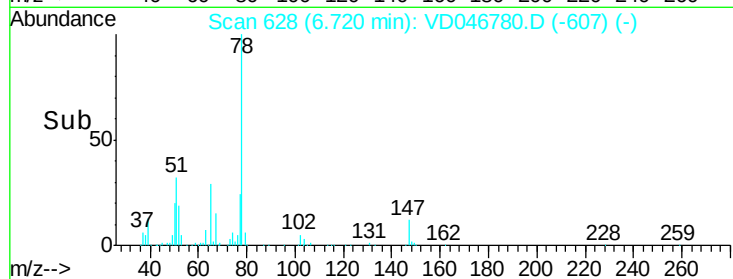
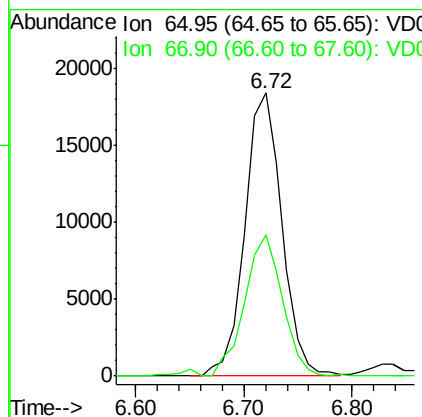
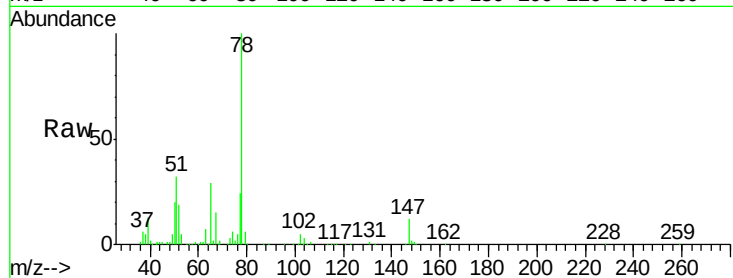
#33
 1,2-Dichloroethane-d4
 Concen: 20.57 ug/l
 RT: 6.72 min Scan# 628
 Delta R.T. 0.01 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	43607		
67	50.1	0.0	0.0	105.4

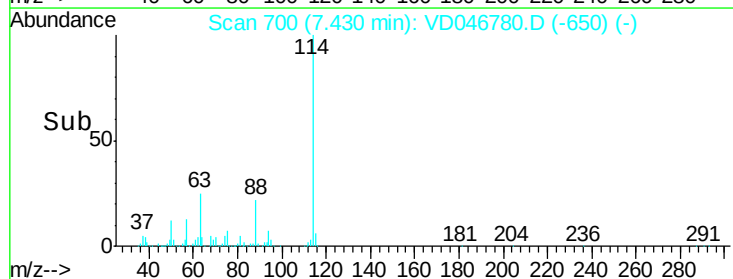
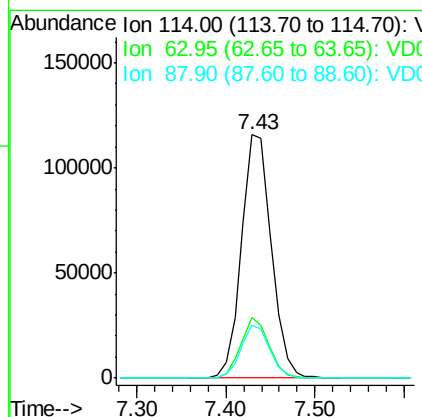
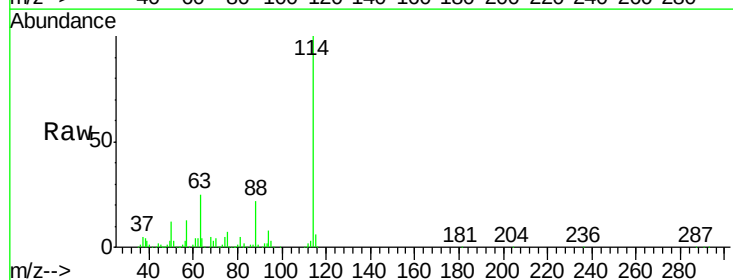
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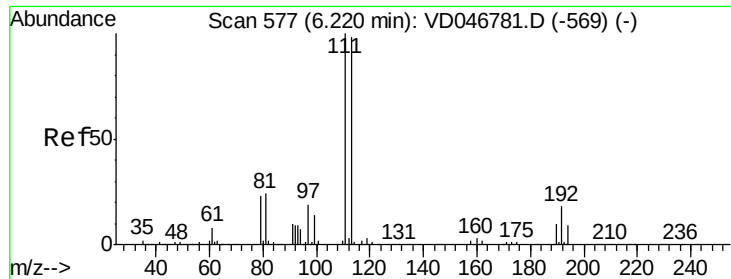
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.43 min Scan# 700
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	269316		
63	25.1	0.0	0.0	49.8
88	21.9	0.0	0.0	43.6





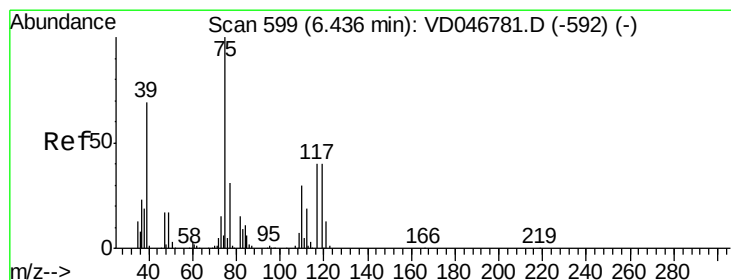
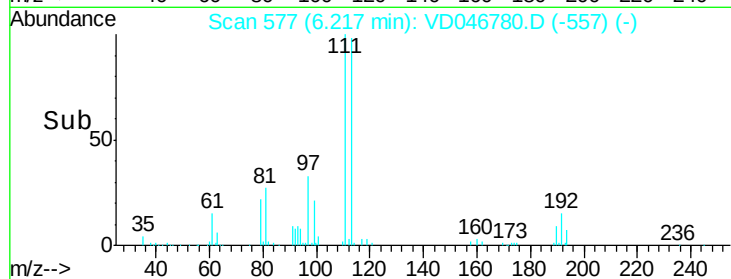
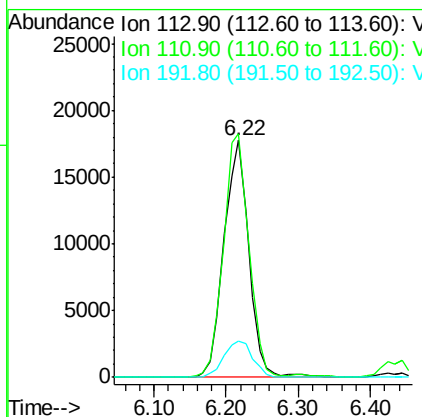
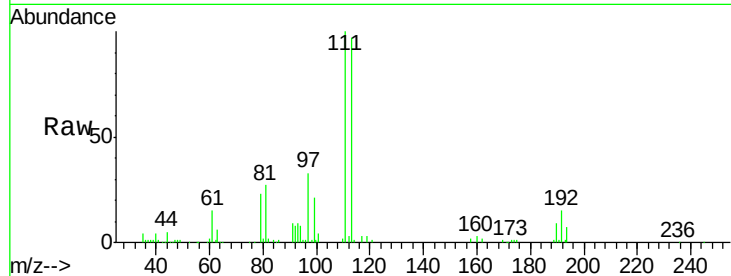
#35
Dibromofluoromethane
Concen: 50.00 ug/l
RT: 6.22 min Scan# 577
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	42662		
111	102.7	79.4	119.0	
192	15.6	14.6	22.0	

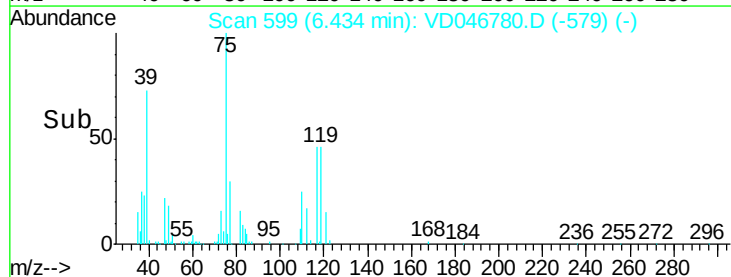
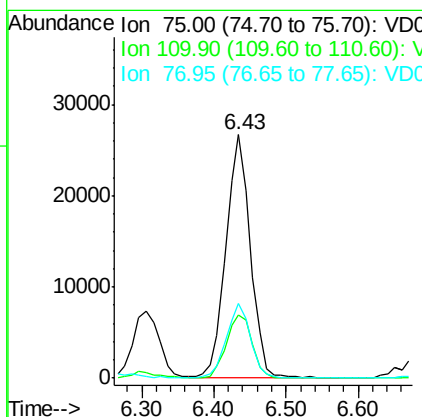
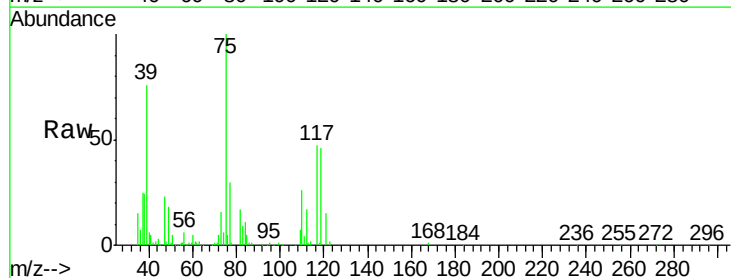
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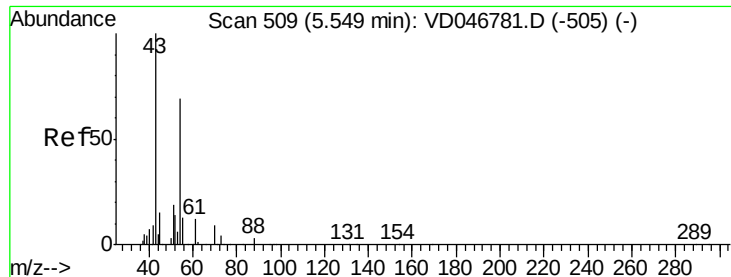
MMDadoda
9/21/2015 11:38:38 AM



#36
1,1-Dichloropropene
Concen: 18.74 ug/l
RT: 6.43 min Scan# 599
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	62270		
110	25.9	13.7	41.0	
77	30.4	24.7	37.1	





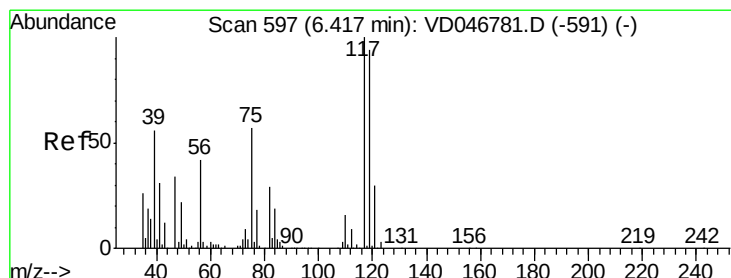
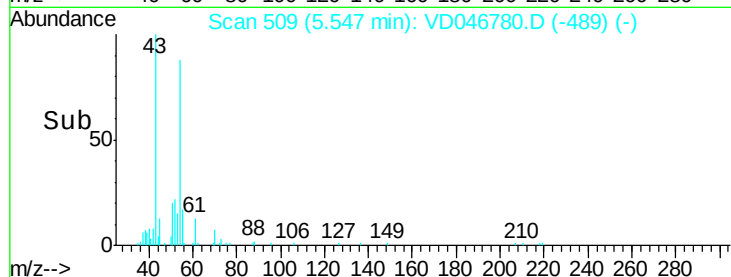
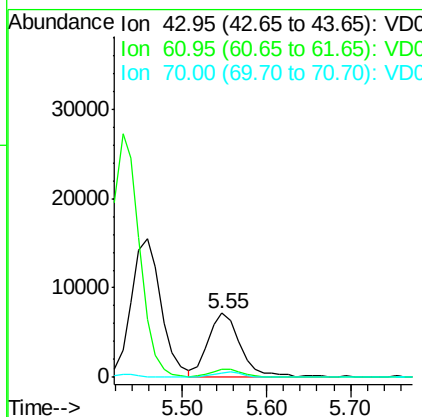
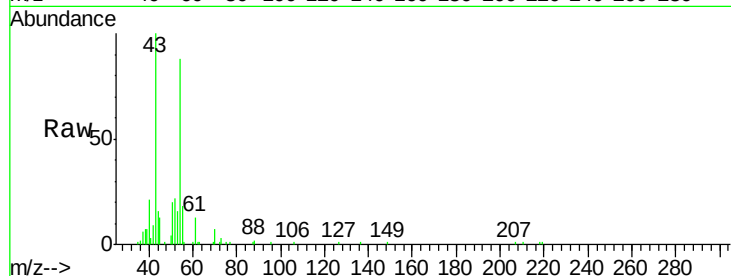
#37
Ethyl Acetate
Concen: 18.56 ug/l
RT: 5.55 min Scan# 509
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
43	100		
61	12.8	9.4	14.2
70	7.1	6.0	9.0

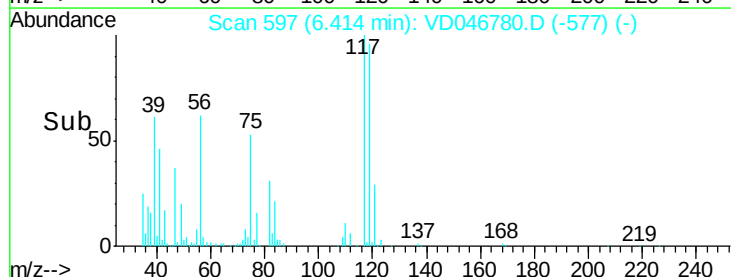
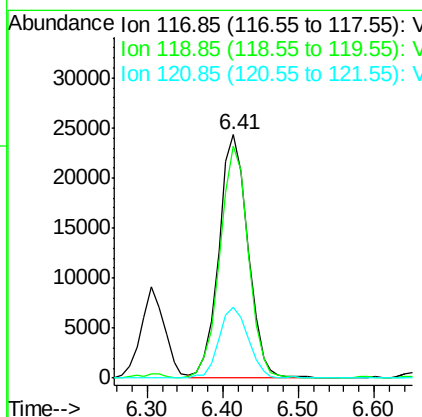
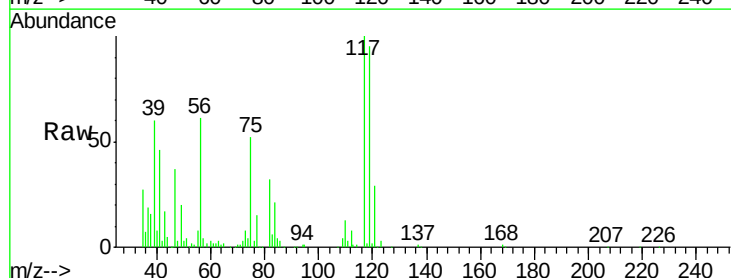
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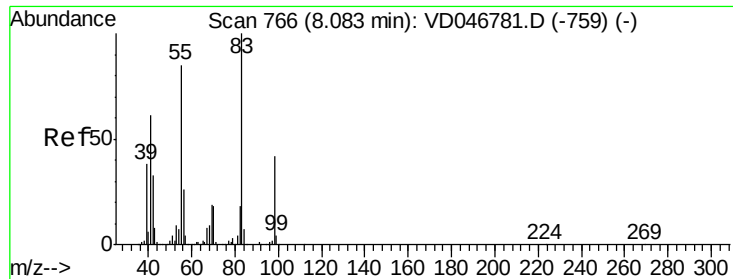
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#38
Carbon Tetrachloride
Concen: 20.65 ug/l
RT: 6.41 min Scan# 597
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.4	76.2	114.4
121	29.3	24.5	36.7





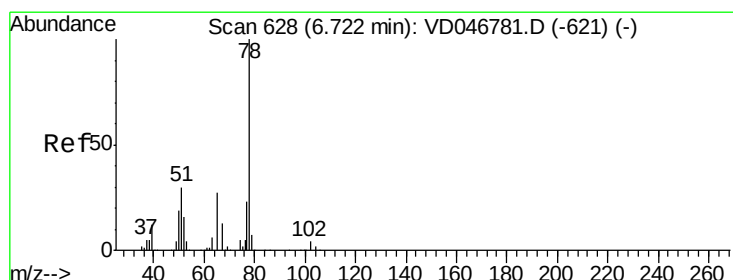
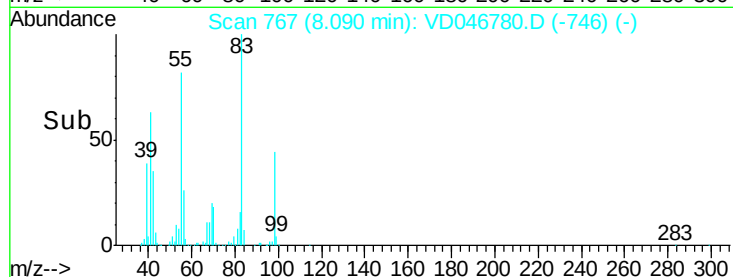
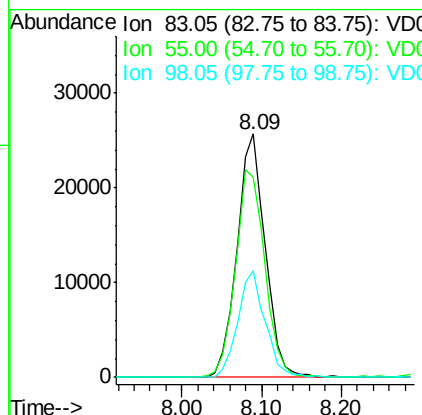
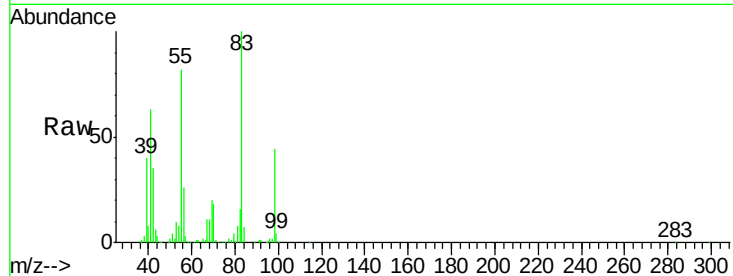
#39
Methylcyclohexane
Concen: 17.88 ug/l
RT: 8.09 min Scan# 767
Delta R.T. 0.01 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
83	100		
55	82.2	71.1	106.7
98	43.9	34.6	51.8

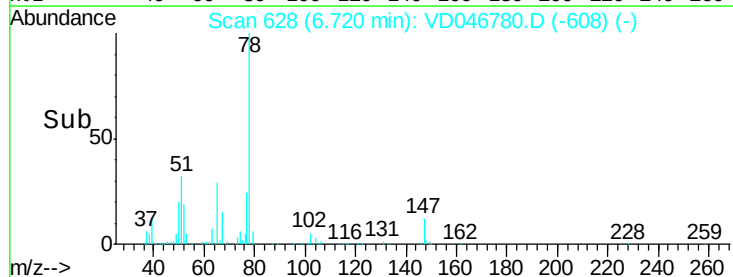
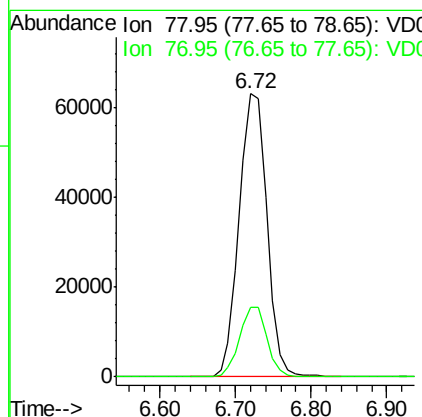
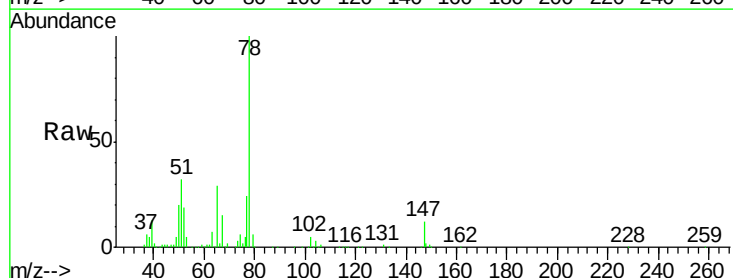
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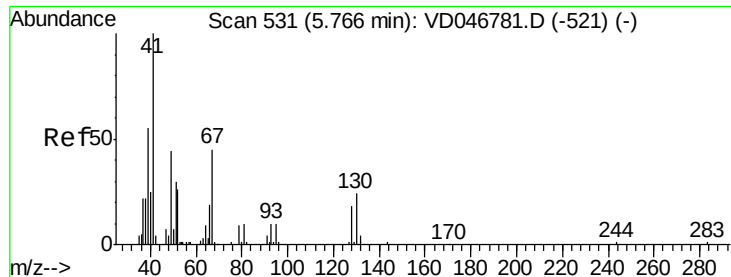
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#40
Benzene
Concen: 18.99 ug/l
RT: 6.72 min Scan# 628
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.9	29.9





#41

Methacrylonitrile

Concen: 16.54 ug/l

RT: 5.76 min Scan# 531

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 41 Resp: 10718

Ion Ratio Lower Upper

41 100

39 55.2 40.2 60.4

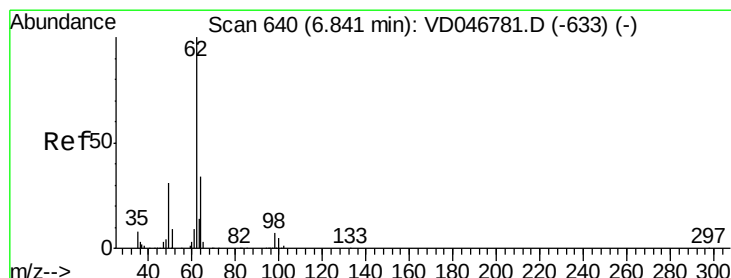
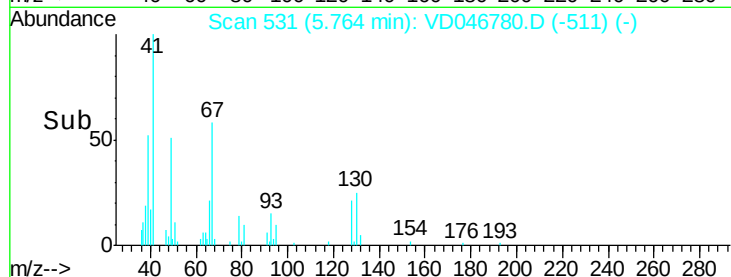
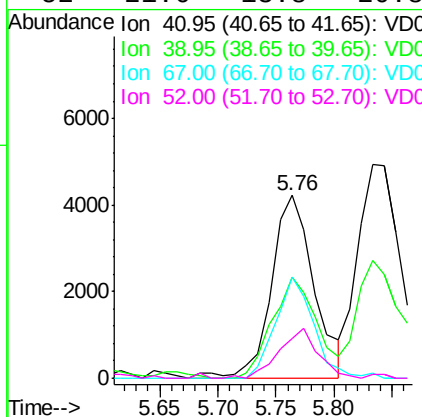
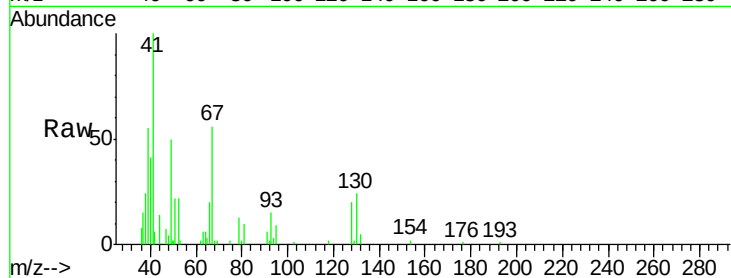
67 55.7 32.0 48.0#

52 21.6 13.8 20.8#

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#42

1,2-Dichloroethane

Concen: 19.76 ug/l

RT: 6.84 min Scan# 640

Delta R.T. -0.00 min

Lab File: VD046780.D

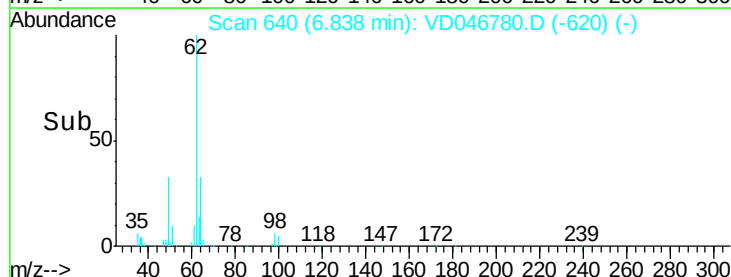
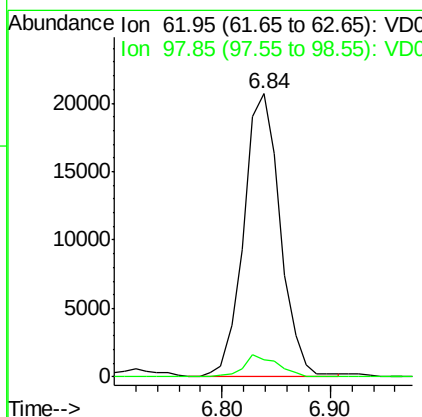
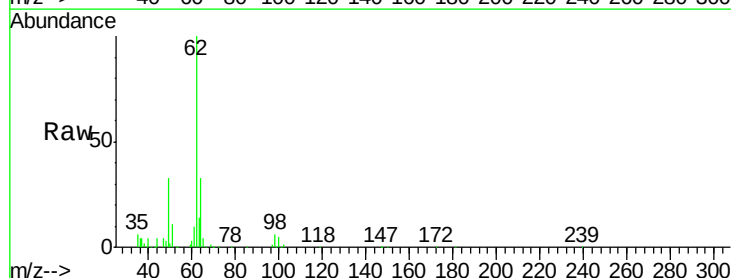
Acq: 18 Sep 2015 12:48

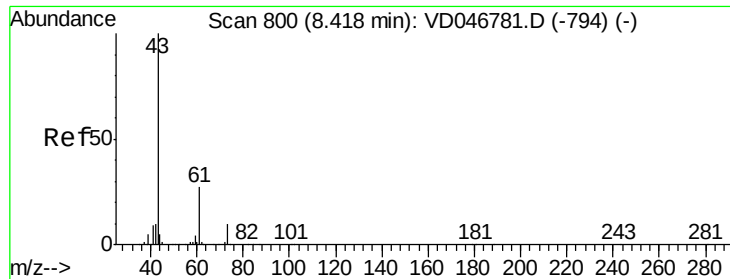
Tgt Ion: 62 Resp: 48625

Ion Ratio Lower Upper

62 100

98 6.1 0.0 16.2





#43

Isopropyl Acetate

Concen: 17.04 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

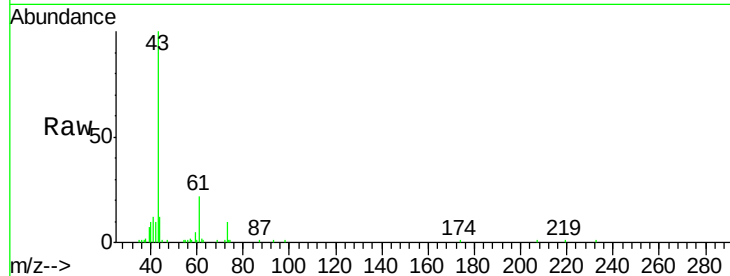
ClientSampleId :

VSTDIC020

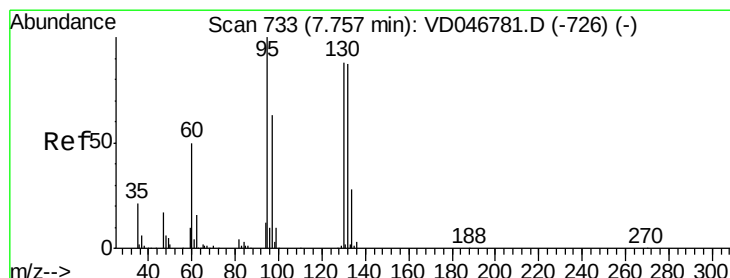
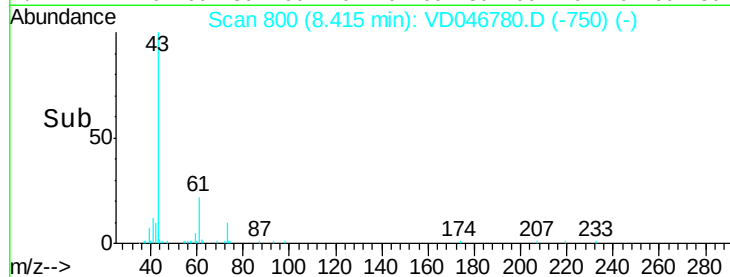
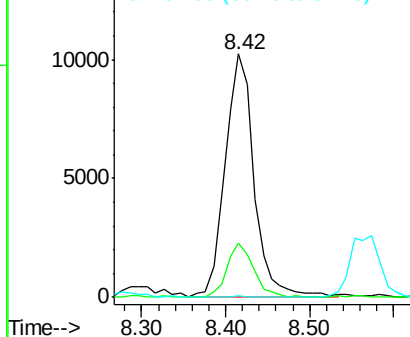
Tgt Ion:	43	Resp:	24576
Ion	Ratio	Lower	Upper
43	100		
61	22.2	19.5	29.3
87	0.7	0.2	0.2#

Manual Integrations
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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: 17.71 ug/l

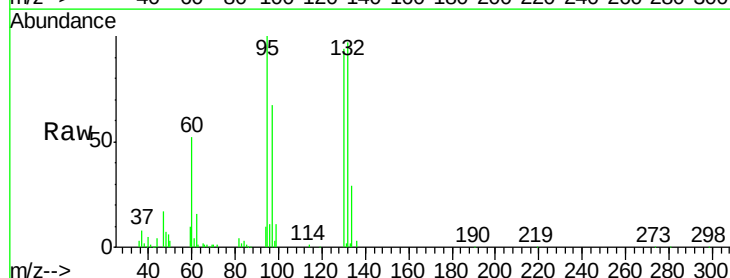
RT: 7.75 min Scan# 733

Delta R.T. -0.00 min

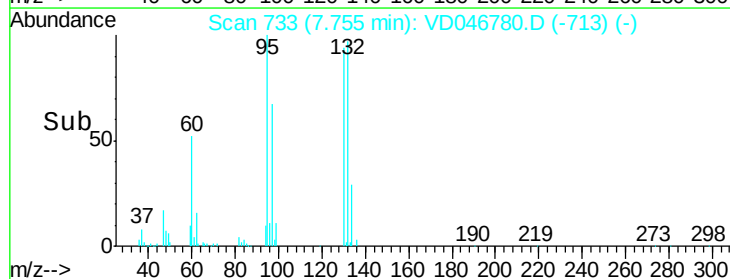
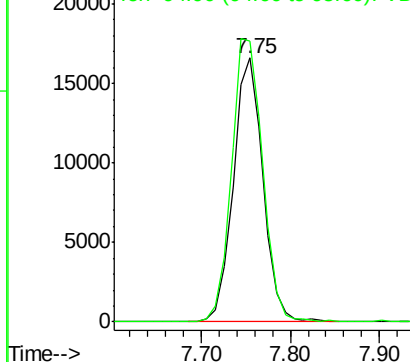
Lab File: VD046780.D

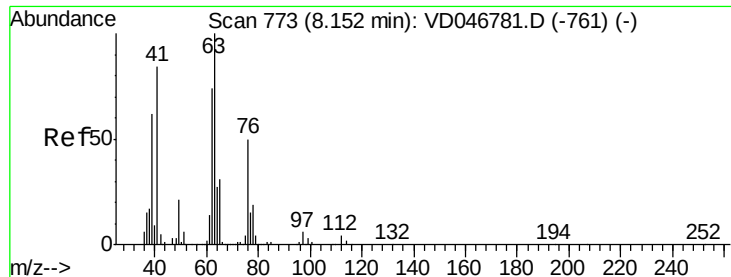
Acq: 18 Sep 2015 12:48

Tgt Ion:	130	Resp:	38420
Ion	Ratio	Lower	Upper
130	100		
95	106.5	0.0	229.4



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





#45

1,2-Dichloropropane

Concen: 18.36 ug/l

RT: 8.15 min Scan# 773

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 38930

Ion Ratio Lower Upper

63 100

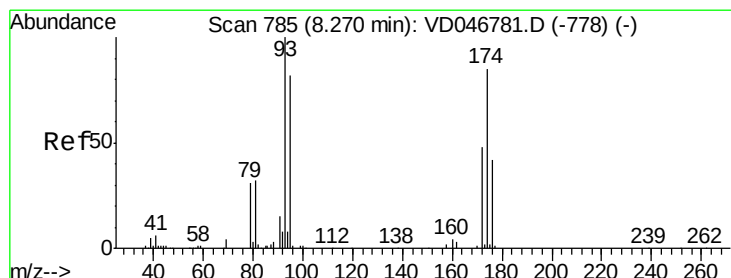
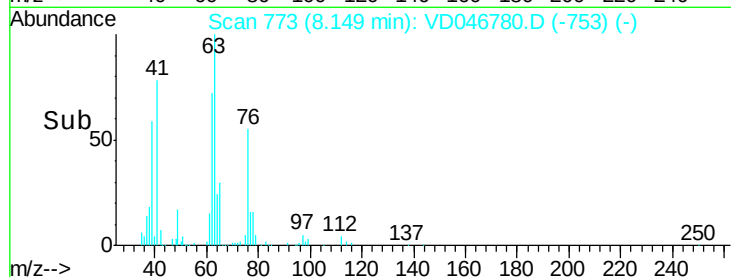
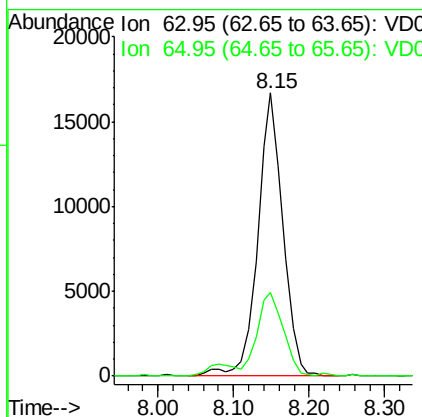
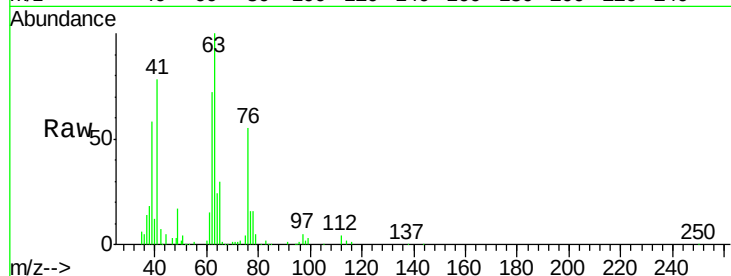
65 29.6 25.1 37.7

Manual Integrations

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9/21/2015 11:38:38 AM



#46

Dibromomethane

Concen: 20.14 ug/l

RT: 8.28 min Scan# 786

Delta R.T. 0.01 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

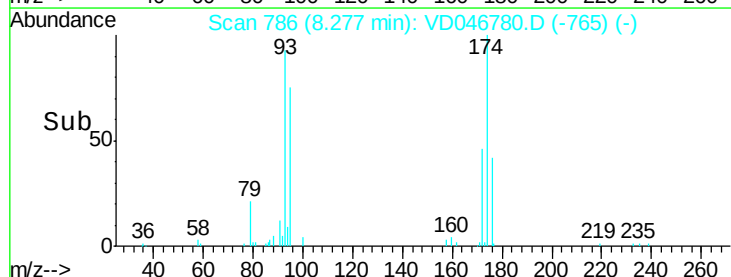
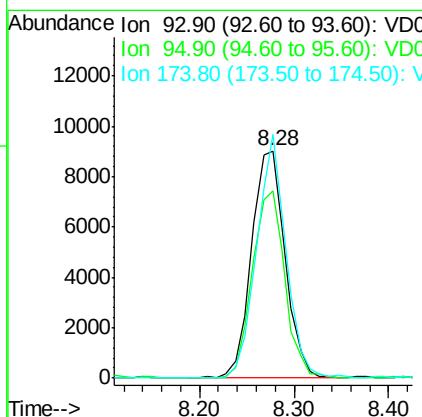
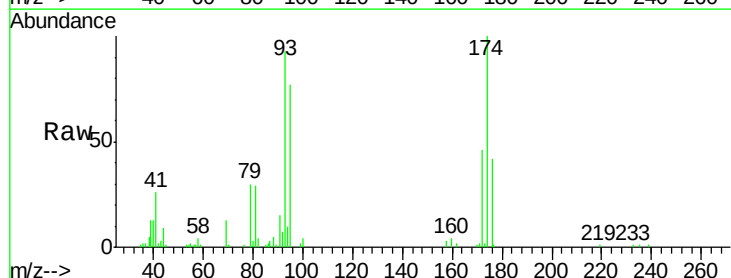
Tgt Ion: 93 Resp: 22262

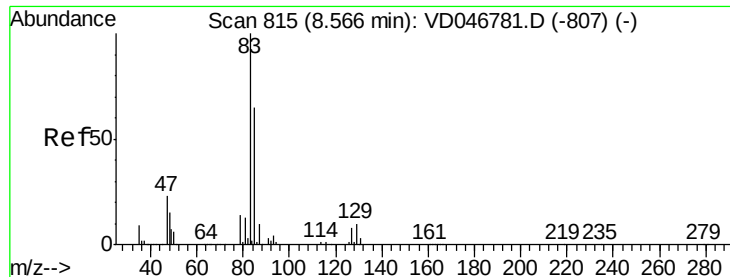
Ion Ratio Lower Upper

93 100

95 82.6 70.2 105.2

174 107.1 79.0 118.4





#47

Bromodichloromethane

Concen: 19.51 ug/l

RT: 8.56 min Scan# 815

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

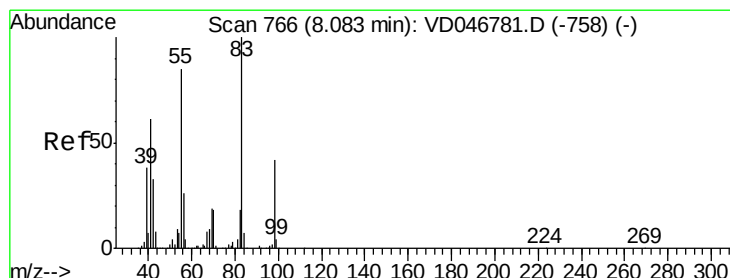
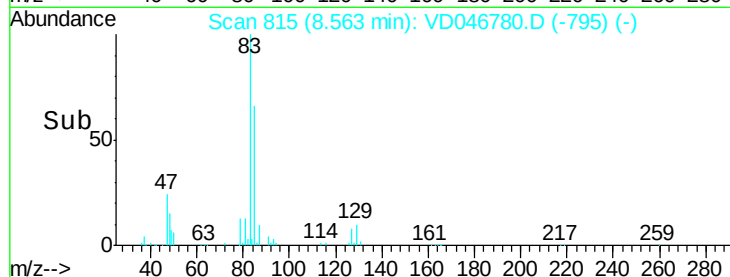
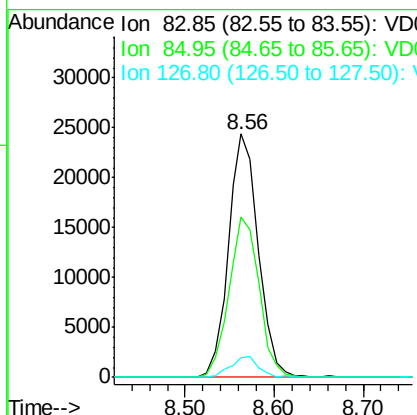
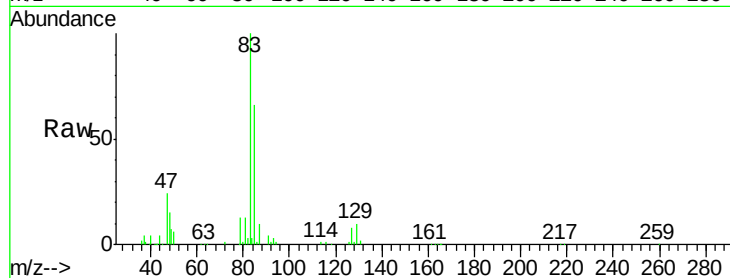
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	57091
Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.6	78.8
127	8.1	5.7	8.5

Manual Integrations
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9/21/2015 11:38:38 AM



#48

Methyl methacrylate

Concen: 18.74 ug/l

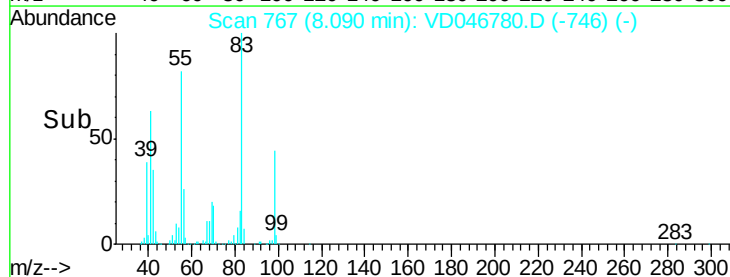
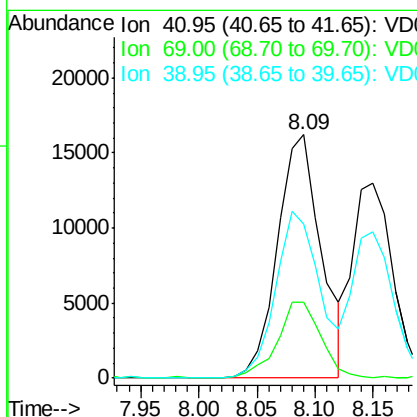
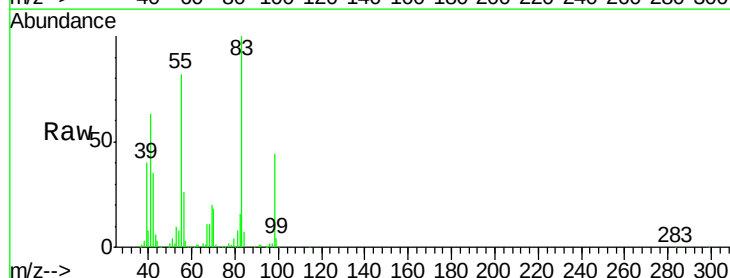
RT: 8.09 min Scan# 767

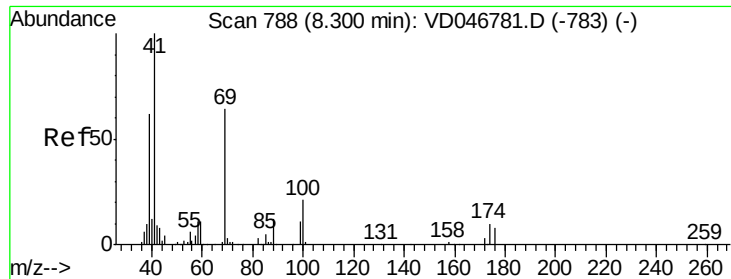
Delta R.T. 0.01 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Tgt Ion:	41	Resp:	42272
Ion	Ratio	Lower	Upper
41	100		
69	31.3	25.3	37.9
39	63.2	47.4	71.0





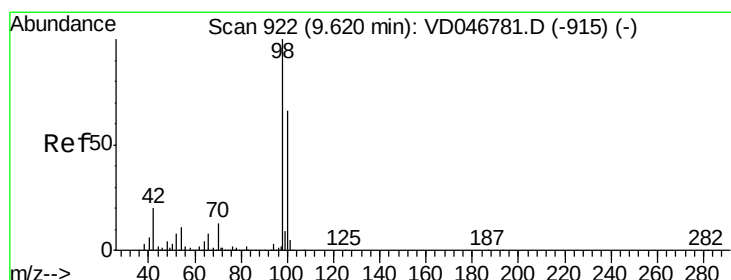
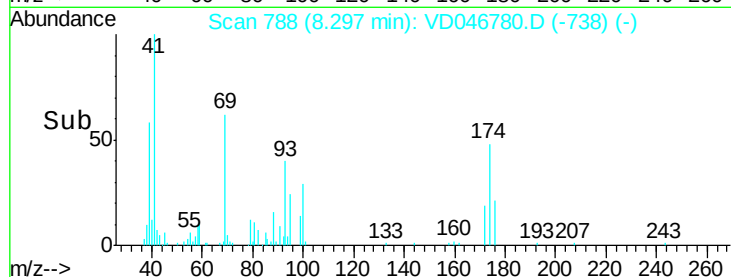
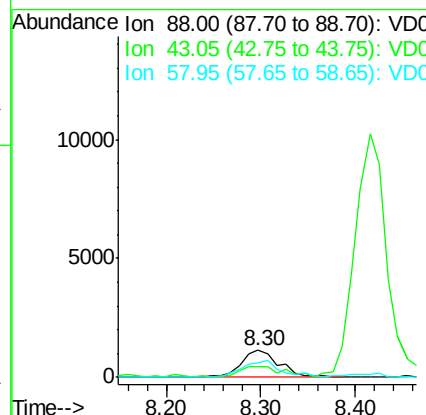
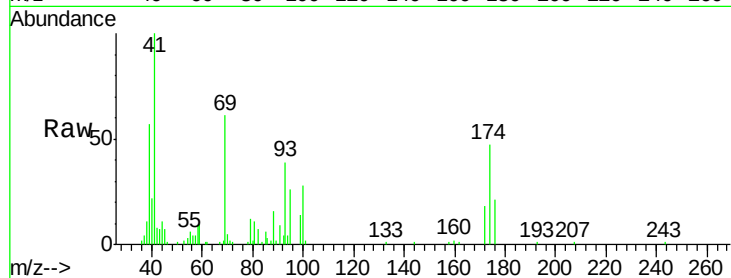
#49
1,4-Dioxane
Concen: 443.42 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
88	100		
43	41.2	50.0	75.0#
58	56.4	48.3	72.5

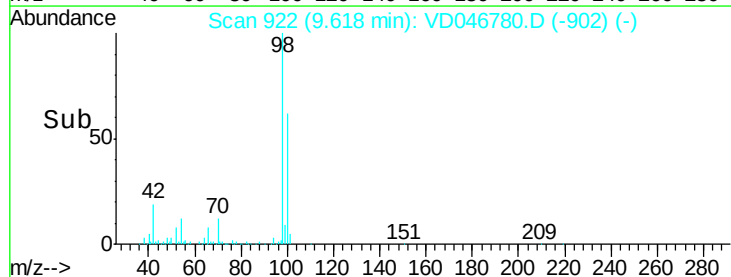
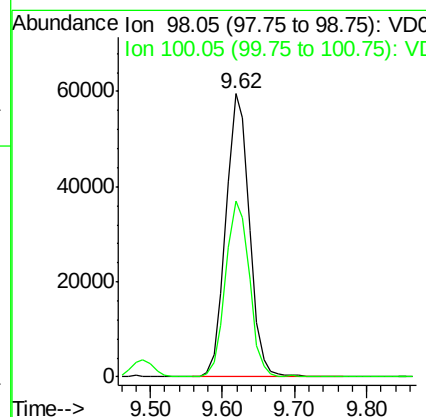
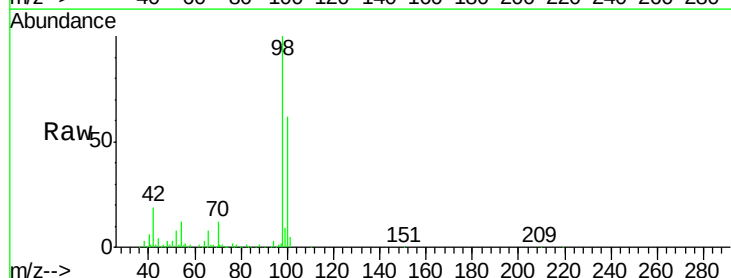
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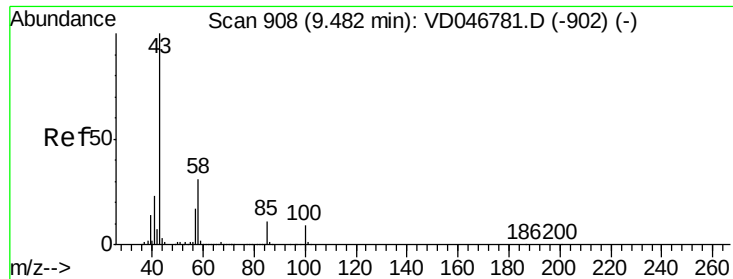
MMDadoda
9/21/2015 11:38:38 AM



#50
Toluene-d8
Concen: 443.42 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.2	49.9	74.9





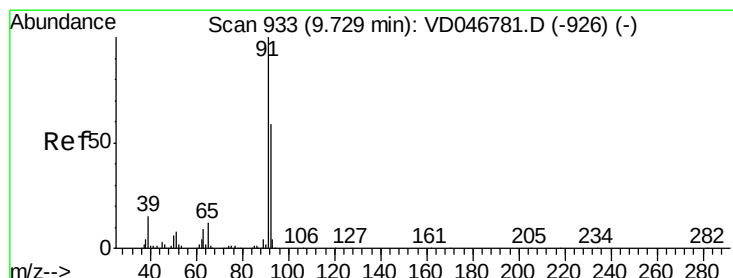
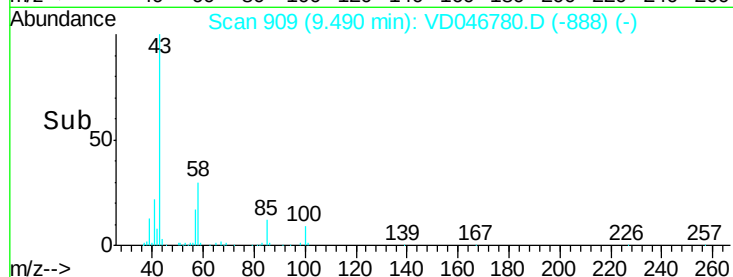
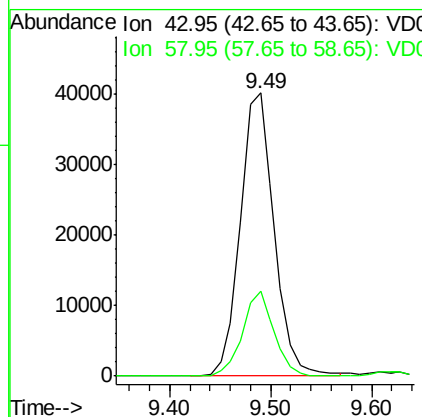
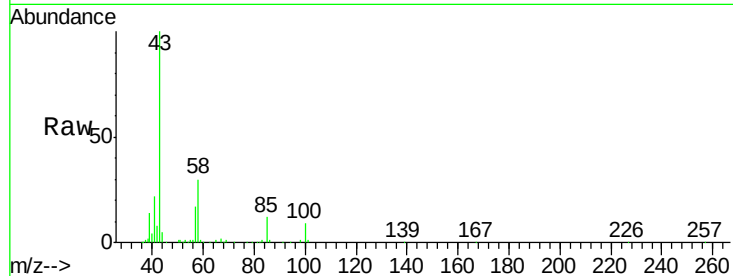
#51
4-Methyl-2-Pentanone
Concen: 93.36 ug/l
RT: 9.49 min Scan# 909
Delta R.T. 0.01 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 93869
Ion Ratio Lower Upper
43 100
58 30.2 22.2 33.2

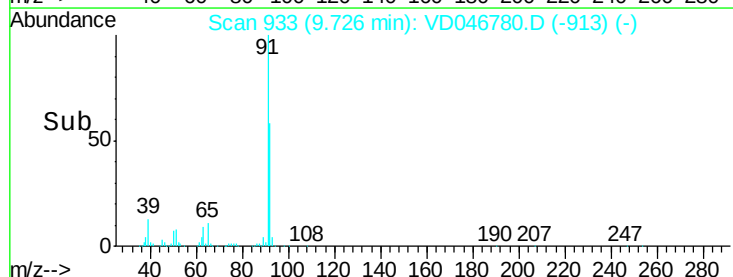
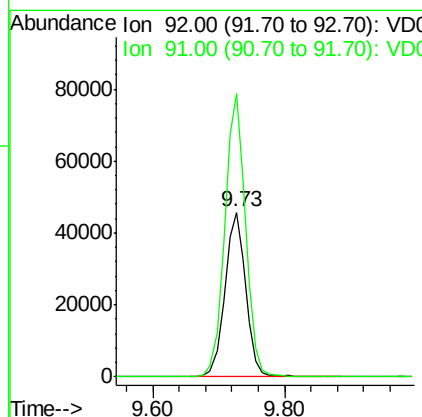
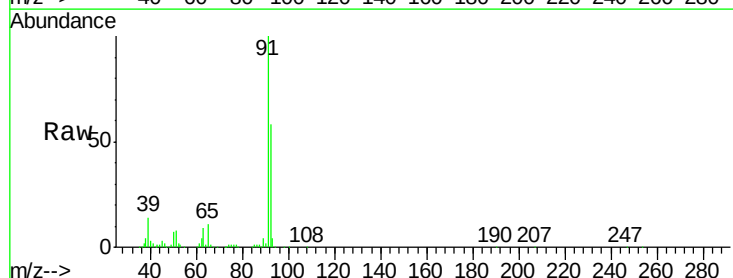
Manual Integrations
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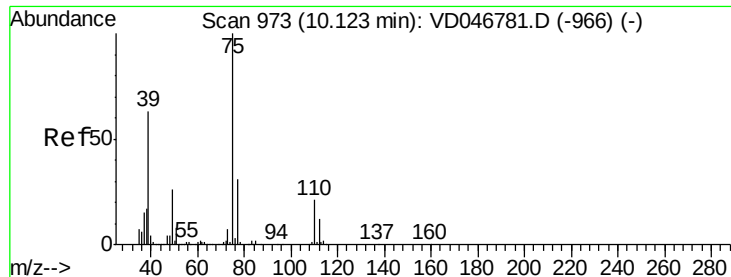
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9/21/2015 11:38:38 AM



#52
Toluene
Concen: 20.00 ug/l
RT: 9.73 min Scan# 933
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion: 92 Resp: 100965
Ion Ratio Lower Upper
92 100
91 171.7 139.4 209.0





#53

t-1,3-Dichloropropene

Concen: 18.47 ug/l

RT: 10.12 min Scan# 973

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 40919

Ion Ratio Lower Upper

75 100

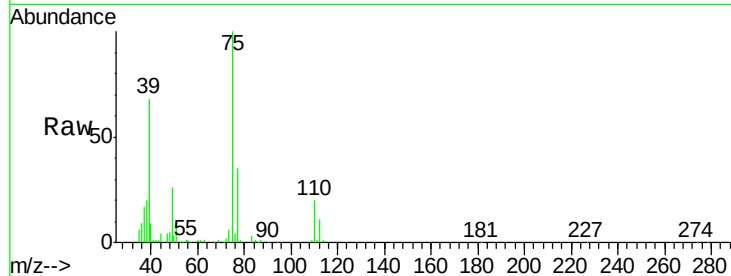
77 35.1 27.6 41.4

Manual Integrations

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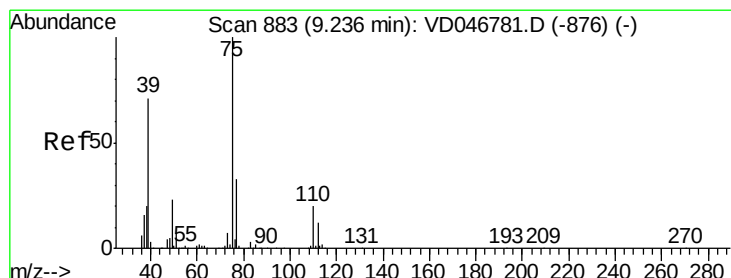
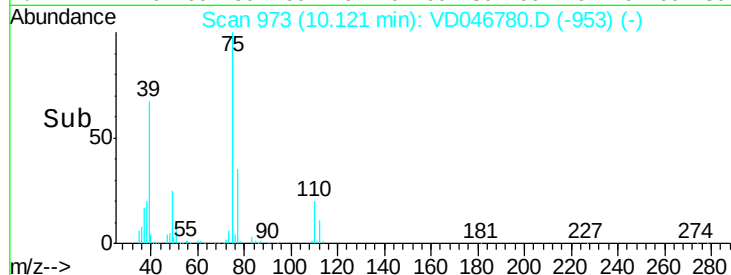
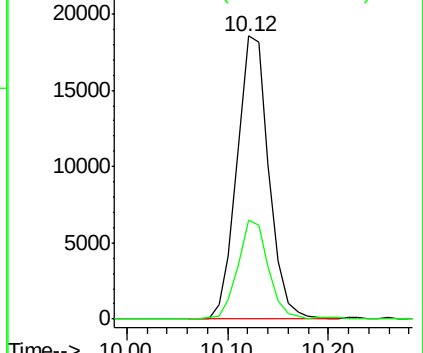
MMDadoda

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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: 18.69 ug/l

RT: 9.23 min Scan# 883

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

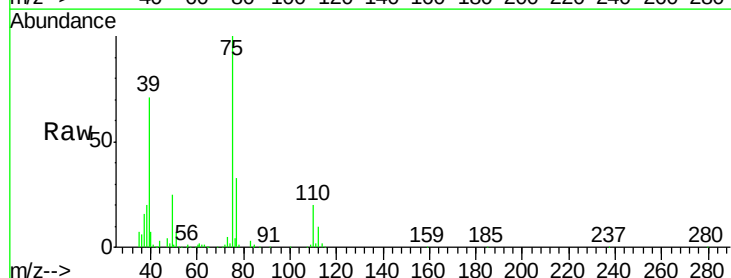
Tgt Ion: 75 Resp: 54608

Ion Ratio Lower Upper

75 100

77 33.5 23.8 35.6

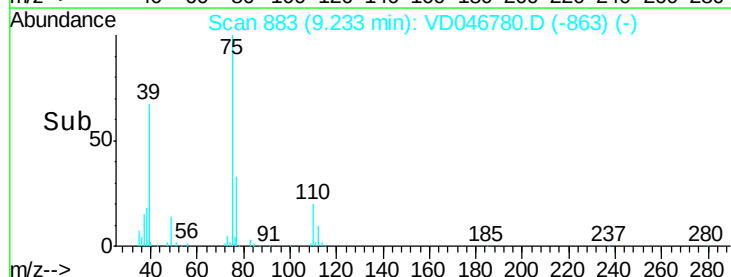
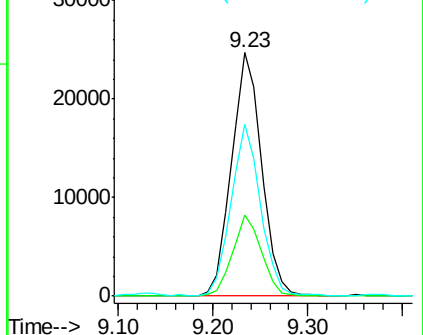
39 70.6 53.0 79.6

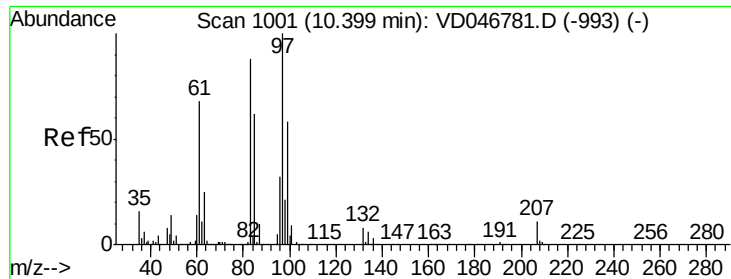


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





#55

1,1,2-Trichloroethane

Concen: 20.46 ug/l

RT: 10.40 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

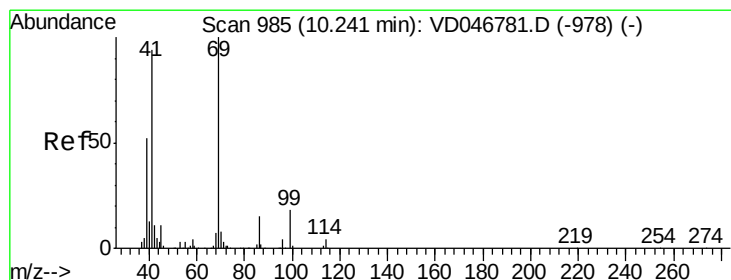
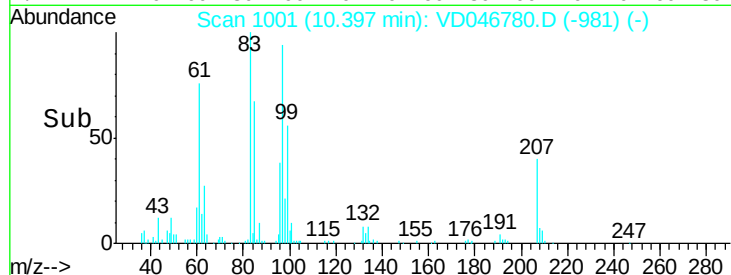
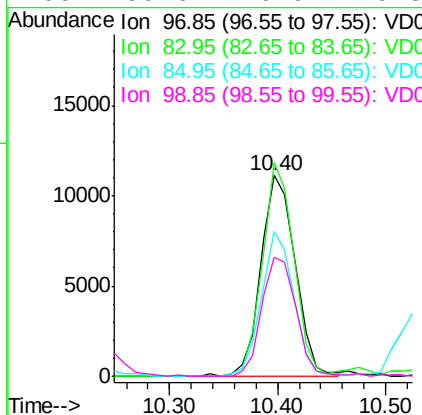
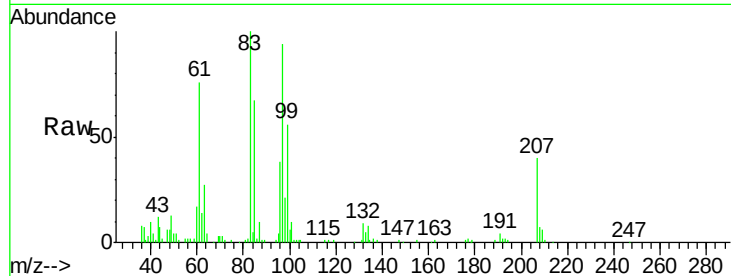
ClientSampleId :

VSTDIC020

Tgt Ion:	97	Resp:	24518
Ion	Ratio	Lower	Upper
97	100		
83	106.6	75.3	112.9
85	71.9	50.9	76.3
99	59.6	46.9	70.3

Manual Integrations
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#56

Ethyl methacrylate

Concen: 17.63 ug/l

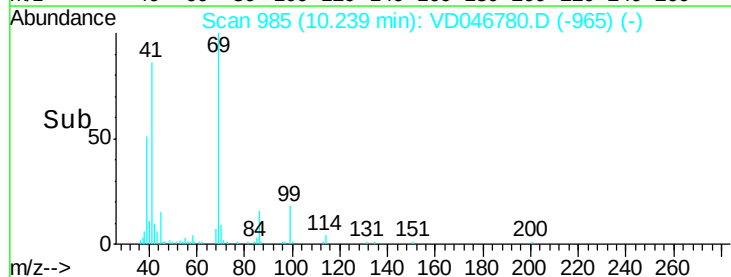
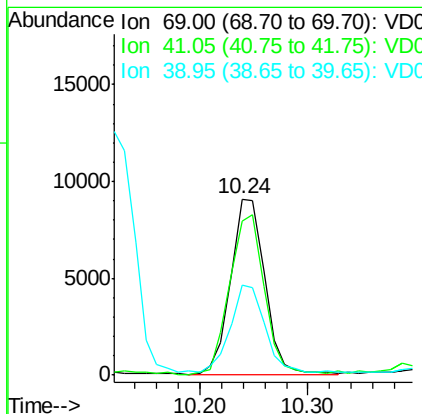
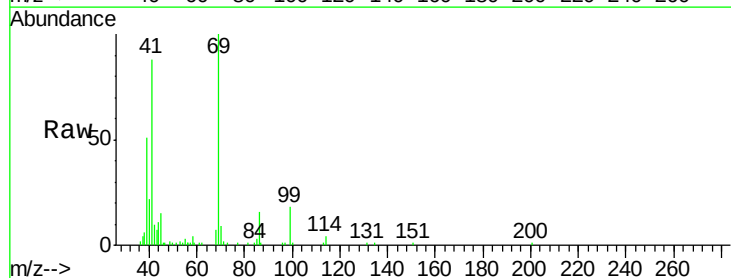
RT: 10.24 min Scan# 985

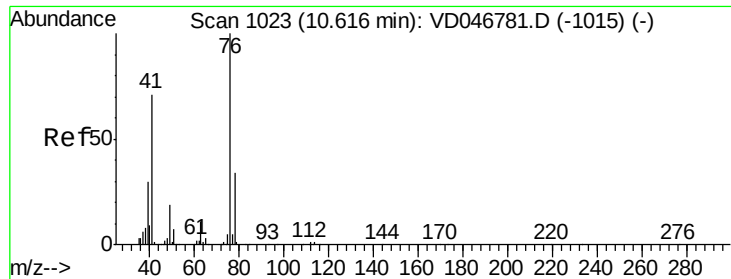
Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Tgt Ion:	69	Resp:	20311
Ion	Ratio	Lower	Upper
69	100		
41	87.6	75.4	113.0
39	51.1	41.0	61.4





#57

1,3-Dichloropropane

Concen: 20.03 ug/l

RT: 10.61 min Scan# 1023

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 46071

Ion Ratio Lower Upper

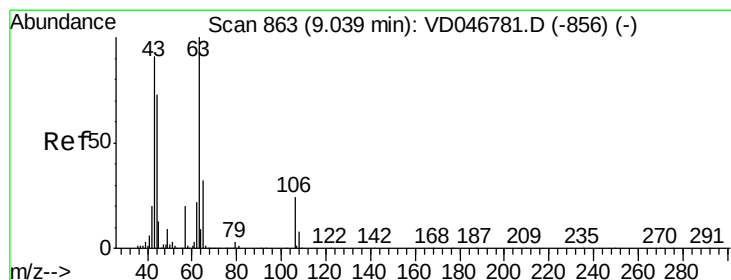
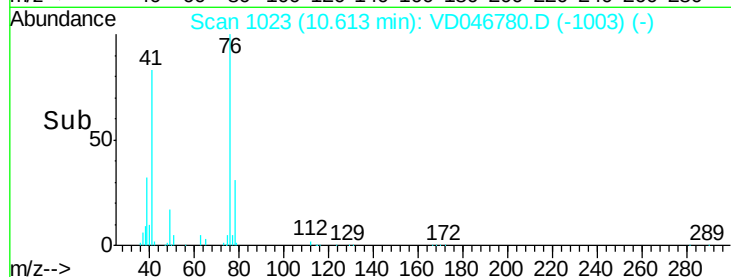
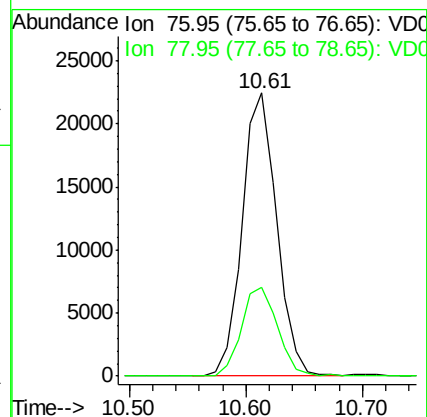
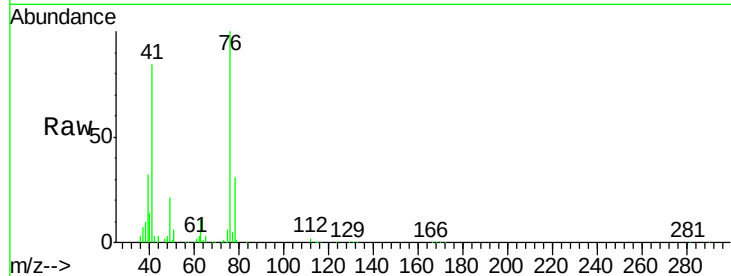
76 100

78 31.5 26.6 39.8

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9/21/2015 11:38:38 AM



#58

2-Chloroethyl Vinyl ether

Concen: 92.95 ug/l

RT: 9.04 min Scan# 863

Delta R.T. -0.00 min

Lab File: VD046780.D

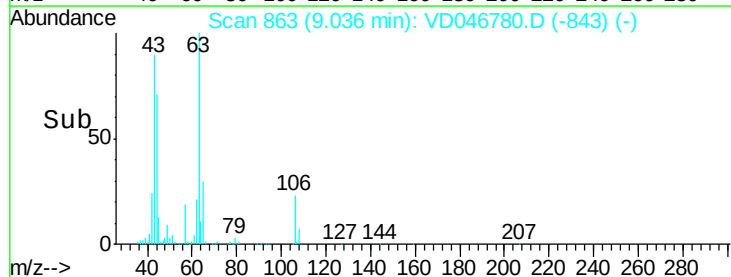
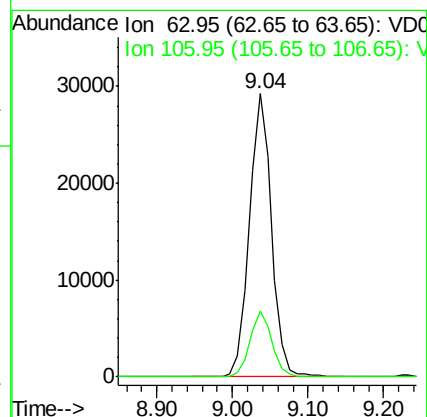
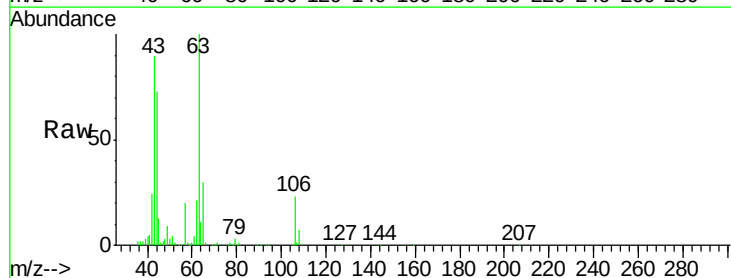
Acq: 18 Sep 2015 12:48

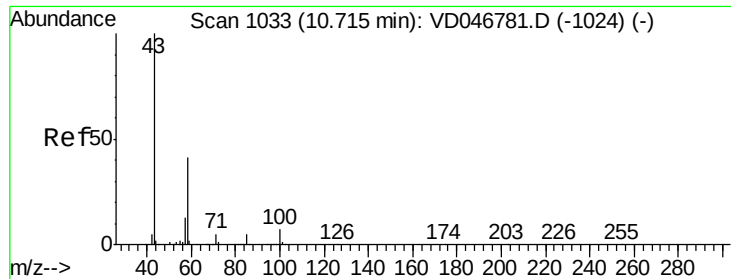
Tgt Ion: 63 Resp: 59086

Ion Ratio Lower Upper

63 100

106 23.3 17.8 26.8





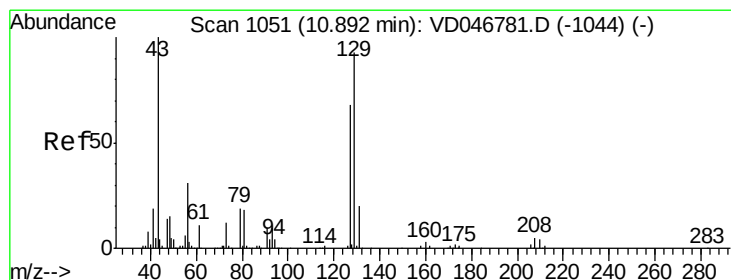
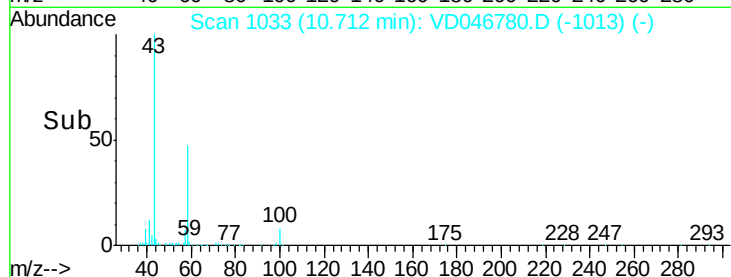
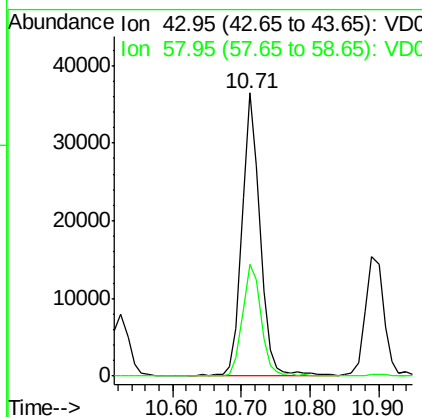
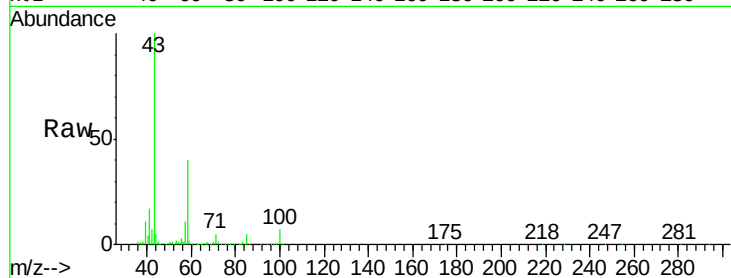
#59
2-Hexanone
Concen: 93.51 ug/l
RT: 10.71 min Scan# 1033
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 67001
Ion Ratio Lower Upper
43 100
58 39.6 18.6 55.8

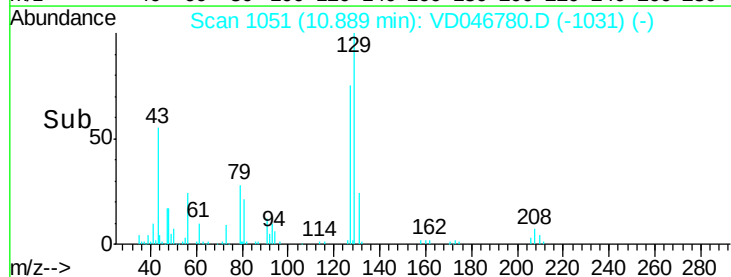
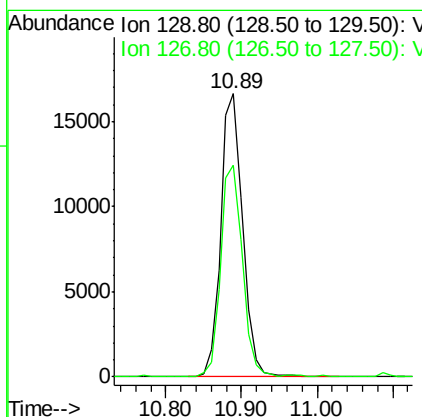
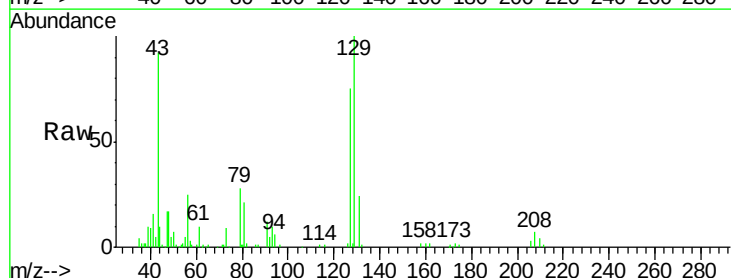
Manual Integrations
APPROVED

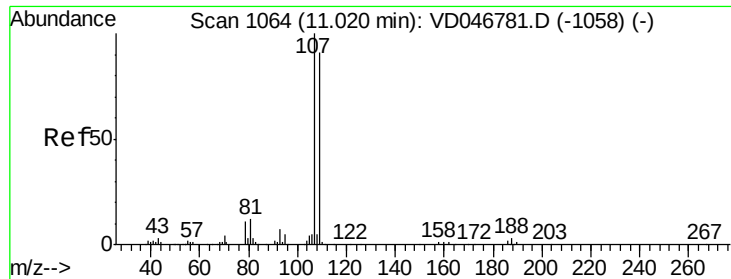
MMDadoda
9/21/2015 11:38:38 AM



#60
Dibromochloromethane
Concen: 20.03 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion: 129 Resp: 33409
Ion Ratio Lower Upper
129 100
127 75.0 38.2 114.6





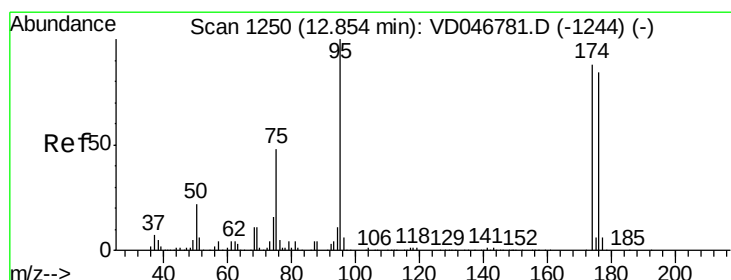
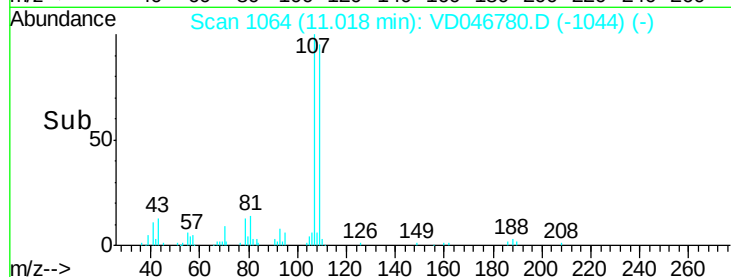
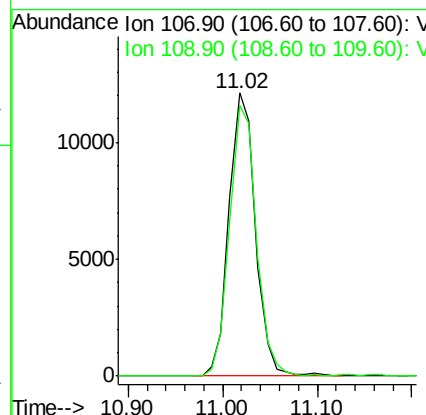
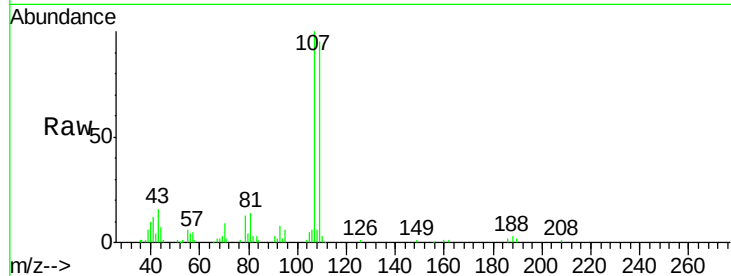
#61
 1,2-Dibromoethane
 Concen: 20.15 ug/l
 RT: 11.02 min Scan# 1064
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion: 107 Resp: 23520
 Ion Ratio Lower Upper
 107 100
 109 95.5 71.4 107.0

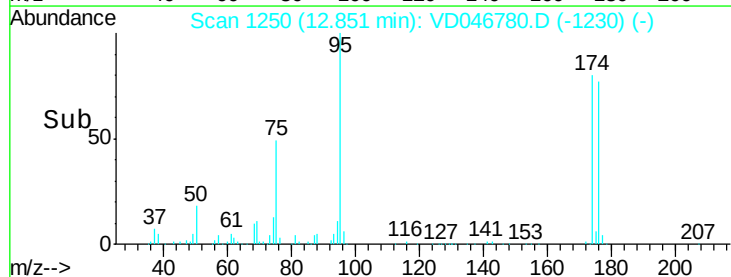
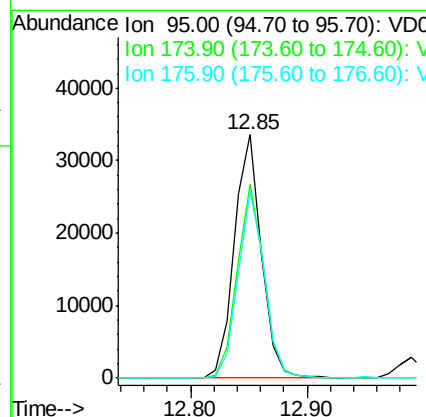
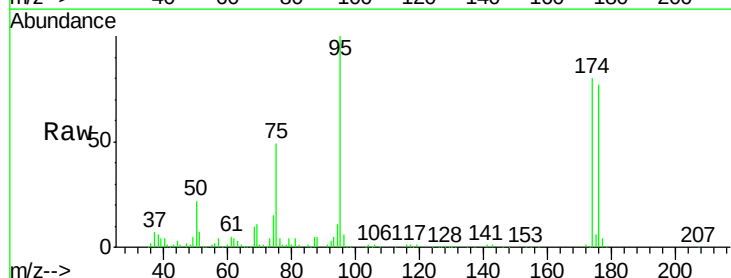
Manual Integrations
 APPROVED

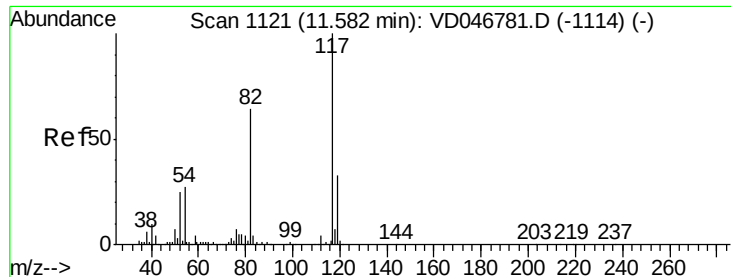
MMDadoda
 9/21/2015 11:38:38 AM



#62
 4-Bromofluorobenzene
 Concen: 20.15 ug/l
 RT: 12.85 min Scan# 1250
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Tgt Ion: 95 Resp: 53737
 Ion Ratio Lower Upper
 95 100
 174 79.6 0.0 149.8
 176 76.9 0.0 143.4





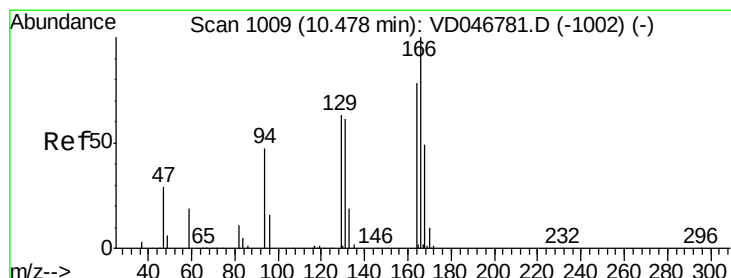
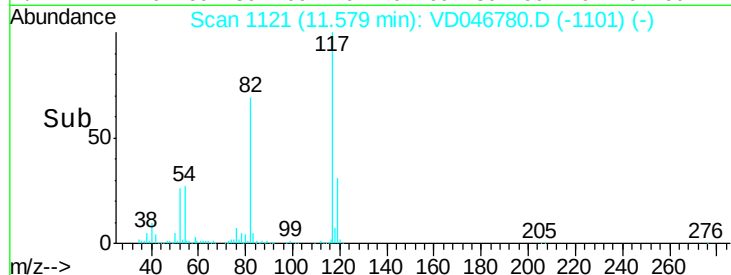
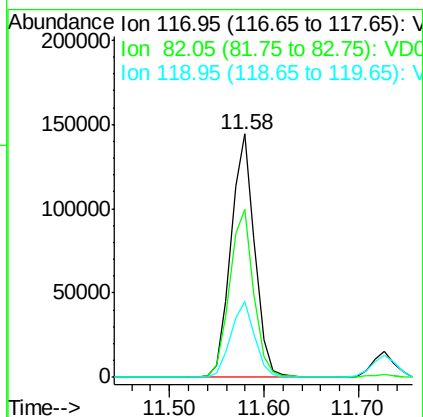
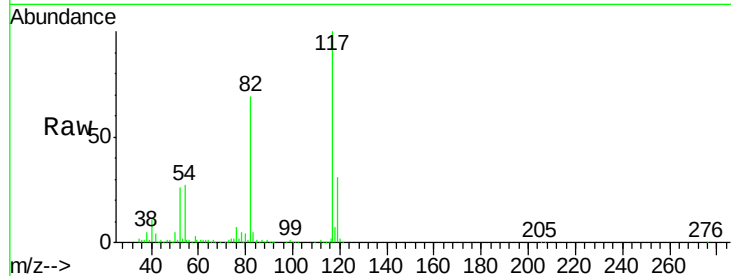
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.58 min Scan# 1121
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	250644		
82	69.1	50.6	75.8	
119	31.0	25.8	38.8	

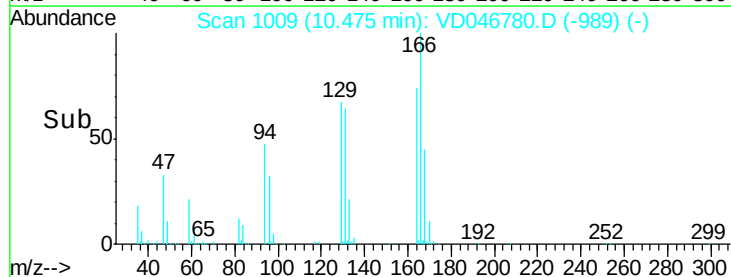
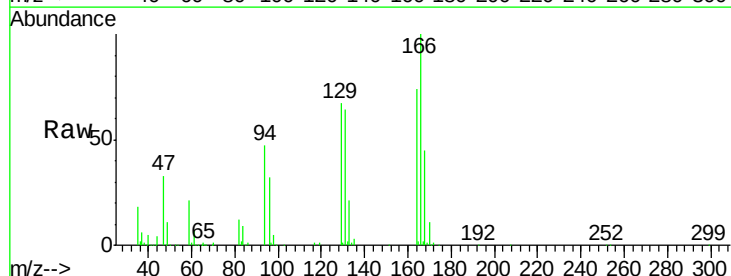
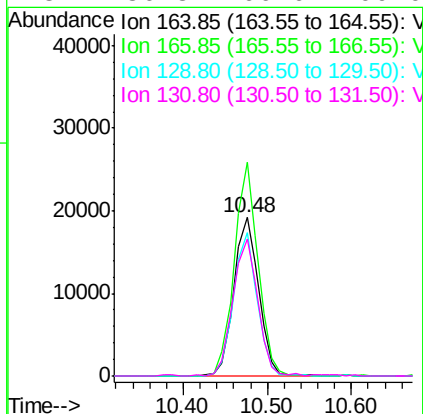
Manual Integrations
APPROVED

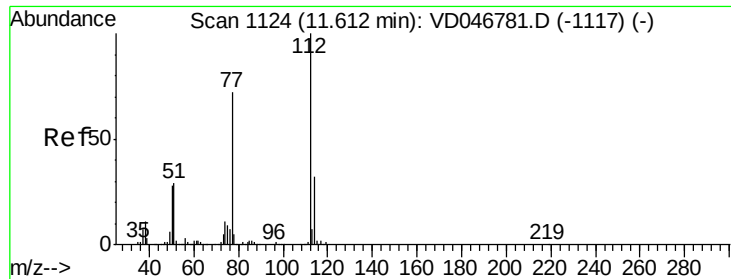
MMDadoda
9/21/2015 11:38:38 AM



#64
Tetrachloroethene
Concen: 17.59 ug/l
RT: 10.48 min Scan# 1009
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	39460		
166	135.0	106.8	160.2	
129	90.9	70.6	106.0	
131	86.3	66.6	100.0	





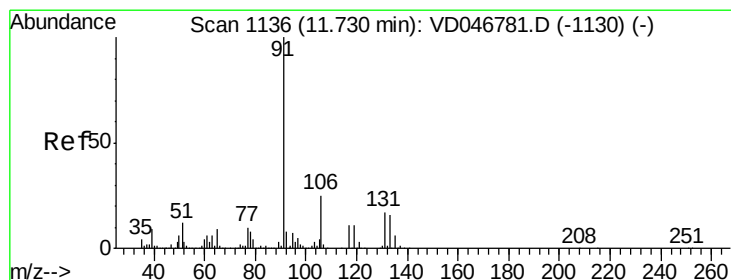
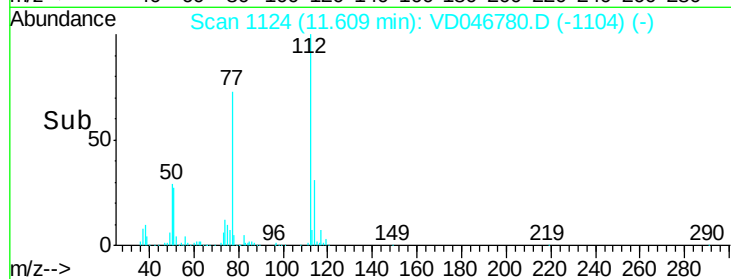
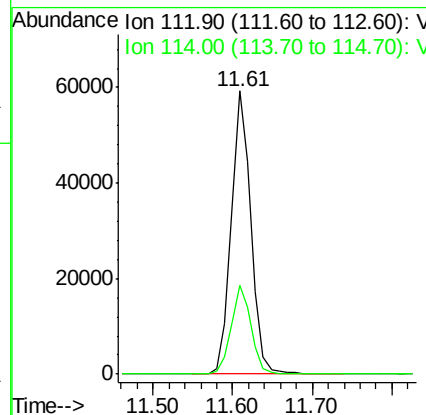
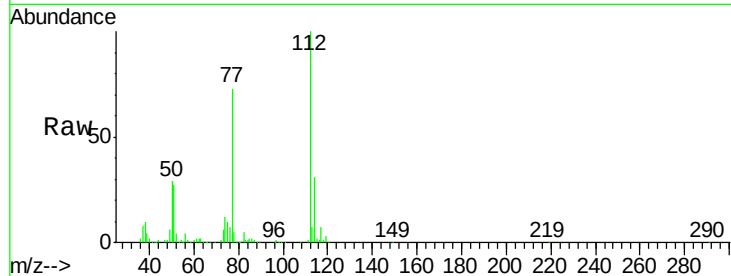
#65
Chlorobenzene
Concen: 18.72 ug/l
RT: 11.61 min Scan# 1124
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion:112 Resp: 103070
Ion Ratio Lower Upper
112 100
114 31.4 25.3 37.9

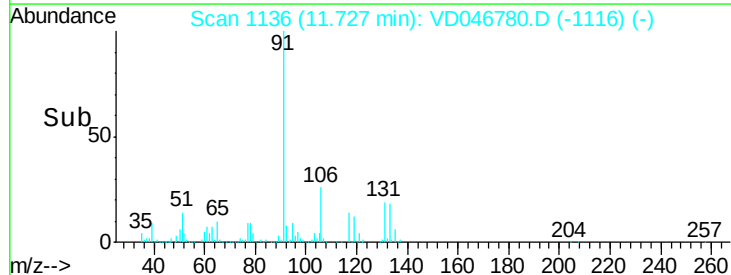
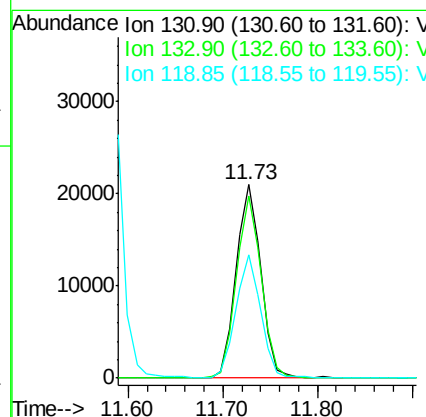
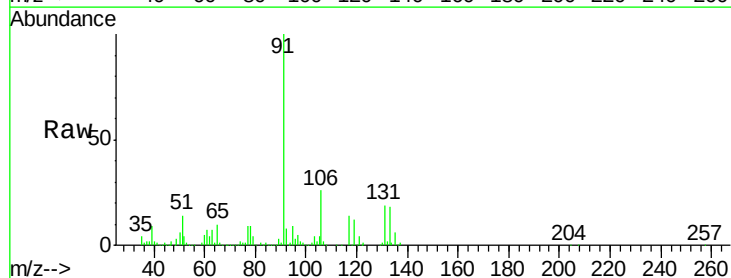
Manual Integrations
APPROVED

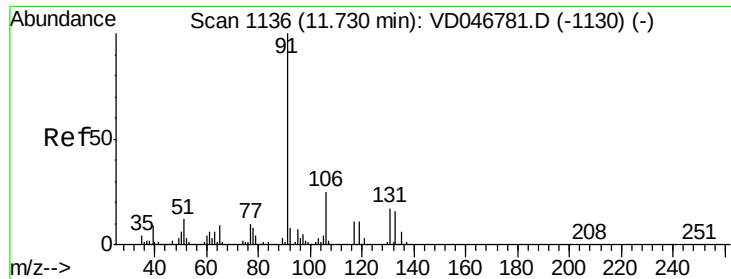
MMDadoda
9/21/2015 11:38:38 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 18.69 ug/l
RT: 11.73 min Scan# 1136
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion:131 Resp: 38202
Ion Ratio Lower Upper
131 100
133 94.6 48.4 145.0
119 63.8 31.5 94.5





#67

Ethyl Benzene

Concen: 18.70 ug/l

RT: 11.74 min Scan# 1137

Delta R.T. 0.01 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 210187

Ion Ratio Lower Upper

91 100

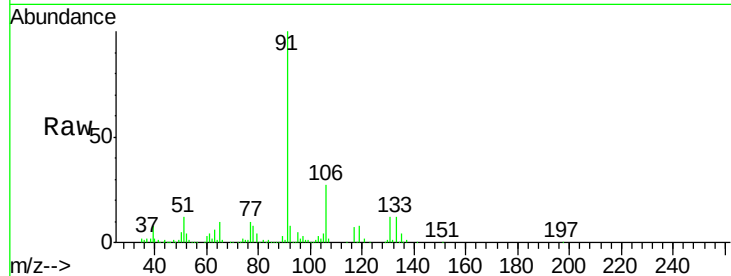
106 27.1 20.2 30.2

Manual Integrations

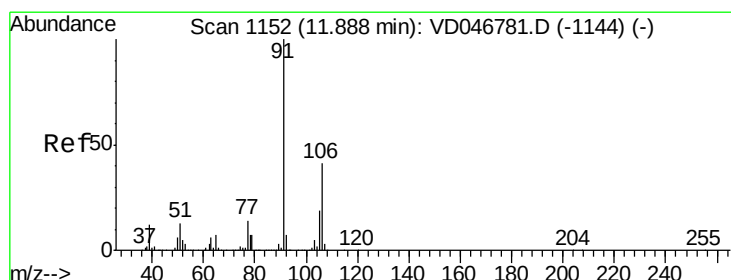
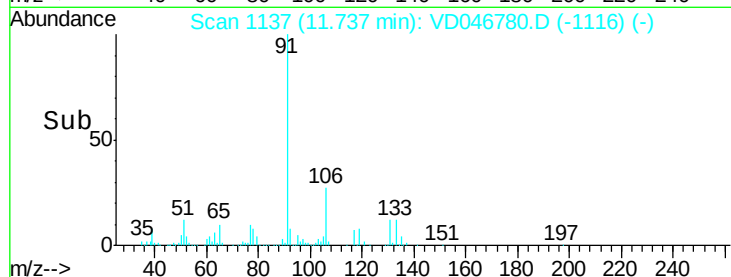
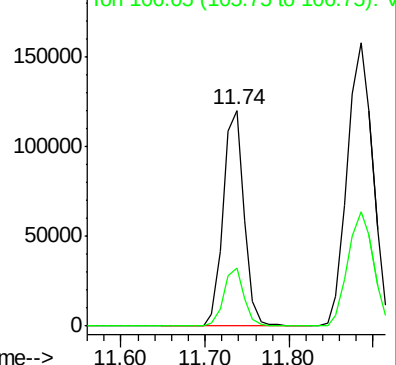
APPROVED

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Abundance Ion 91.00 (90.70 to 91.70): VD046780.D (-1136) (-)



#68

m/p-Xylenes

Concen: 38.34 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VD046780.D

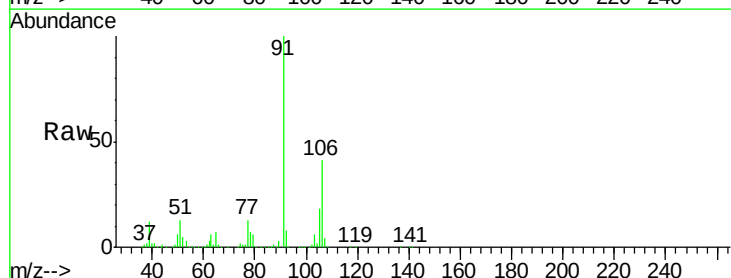
Acq: 18 Sep 2015 12:48

Tgt Ion: 106 Resp: 134744

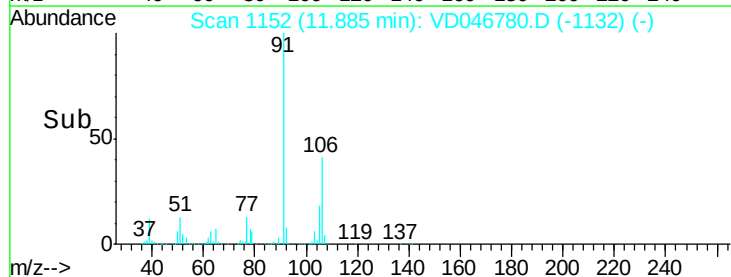
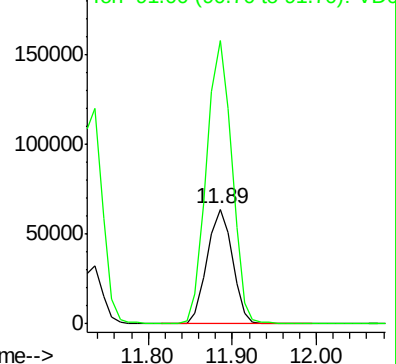
Ion Ratio Lower Upper

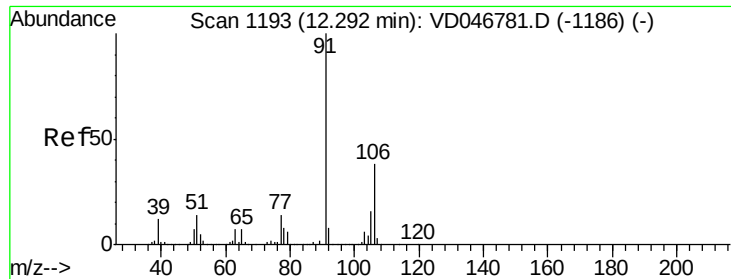
106 100

91 246.3 187.9 281.9



Abundance Ion 106.05 (105.75 to 106.75): VD046780.D (-1132) (-)





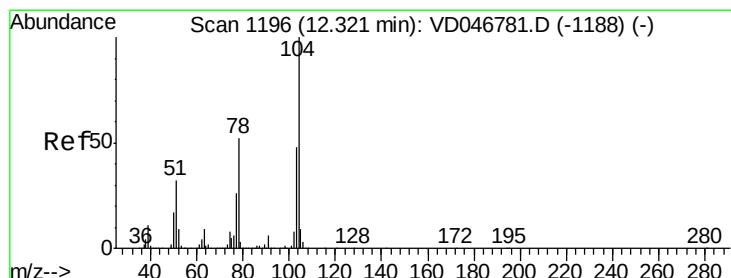
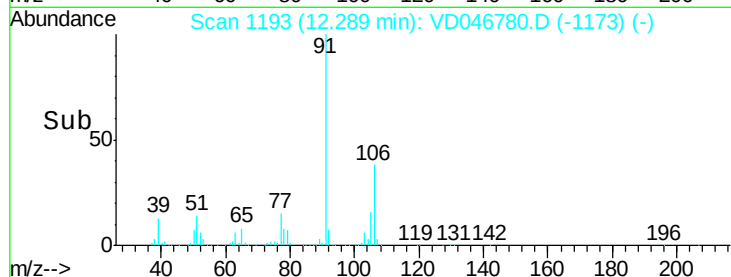
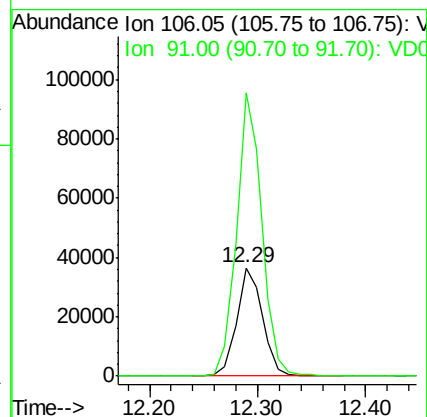
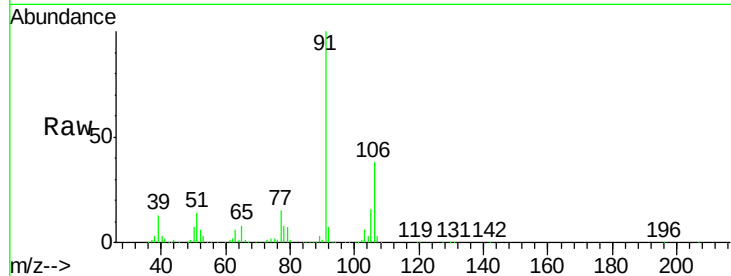
#69
o-Xylene
Concen: 19.34 ug/l
RT: 12.29 min Scan# 1193
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion:106 Resp: 60545
Ion Ratio Lower Upper
106 100
91 262.0 124.8 374.5

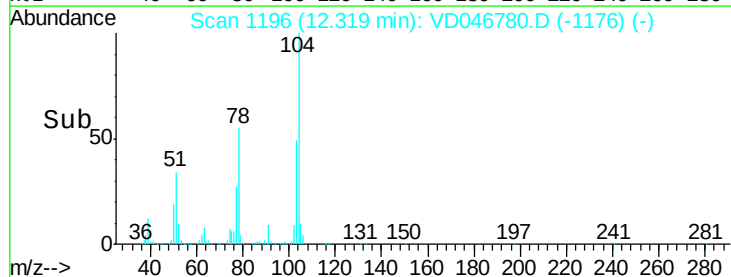
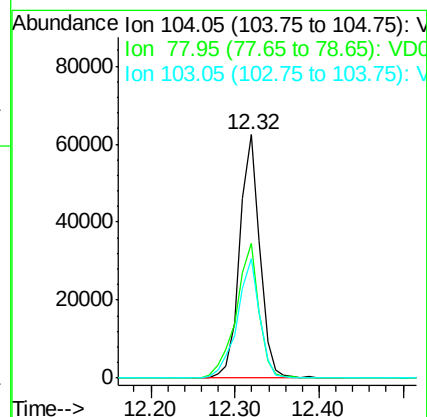
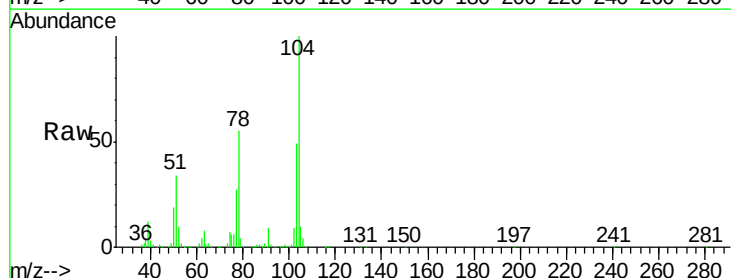
Manual Integrations
APPROVED

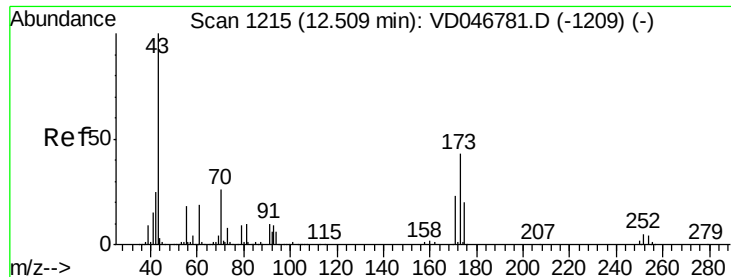
MMDadoda
9/21/2015 11:38:38 AM



#70
Styrene
Concen: 19.56 ug/l
RT: 12.32 min Scan# 1196
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion:104 Resp: 104250
Ion Ratio Lower Upper
104 100
78 55.4 44.5 66.7
103 49.1 40.3 60.5





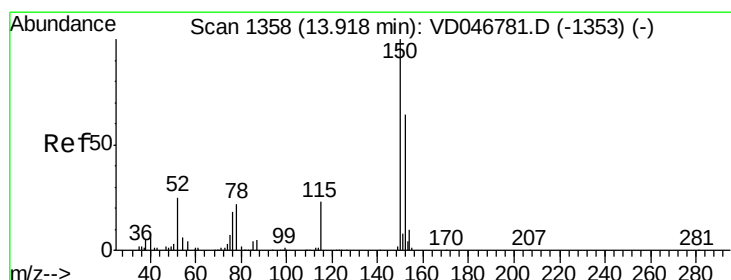
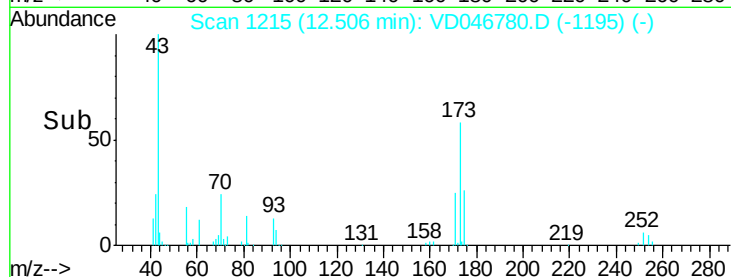
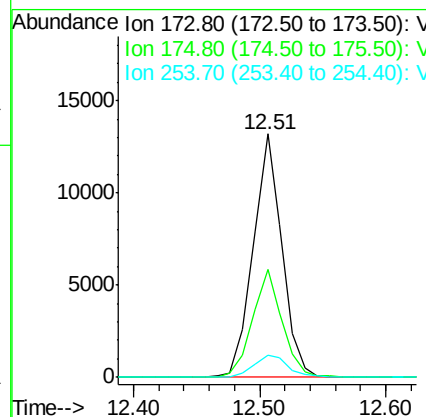
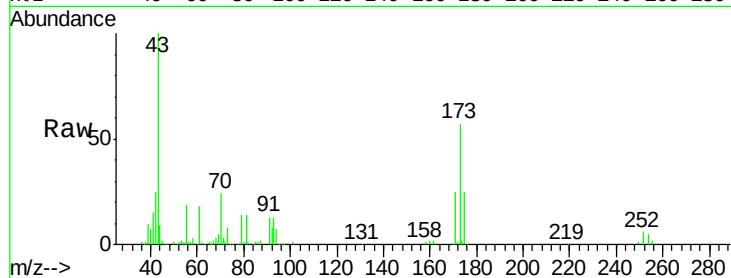
#71
Bromoform
Concen: 20.56 ug/l
RT: 12.51 min Scan# 1215
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	20903		
175	44.4	23.1	69.3	
254	9.0	8.7	13.1	

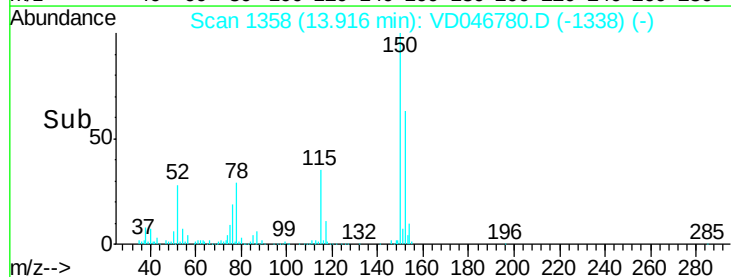
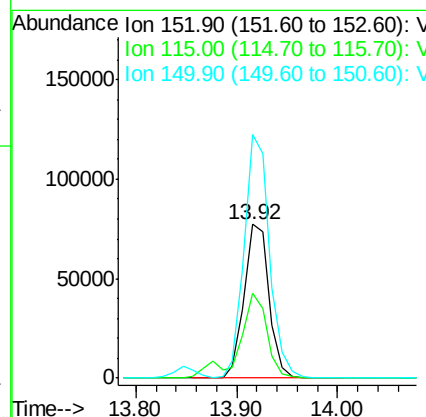
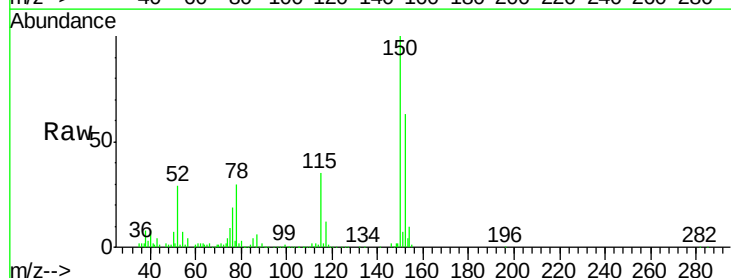
Manual Integrations
APPROVED

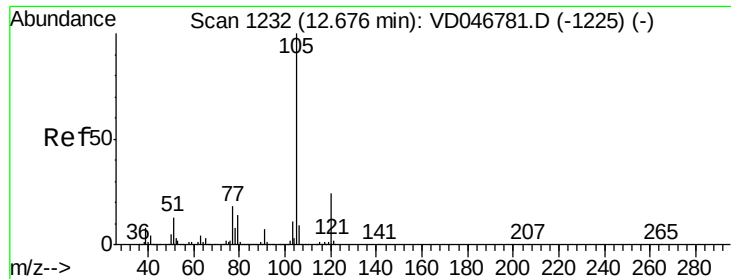
MMDadoda
9/21/2015 11:38:38 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.92 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	133399		
115	55.2	26.2	78.6	
150	158.5	0.0	311.8	





#73

Isopropylbenzene

Concen: 17.90 ug/l

RT: 12.67 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 105 Resp: 184429

Ion Ratio Lower Upper

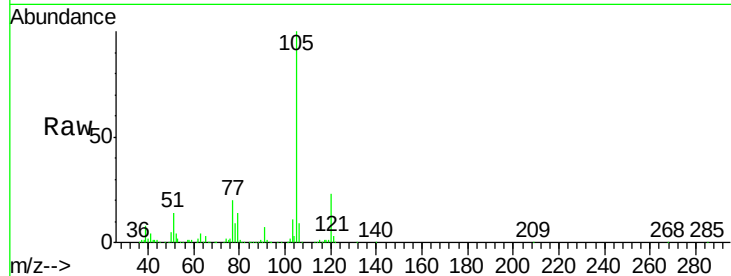
105 100

120 23.1 12.4 37.4

Manual Integrations
APPROVED

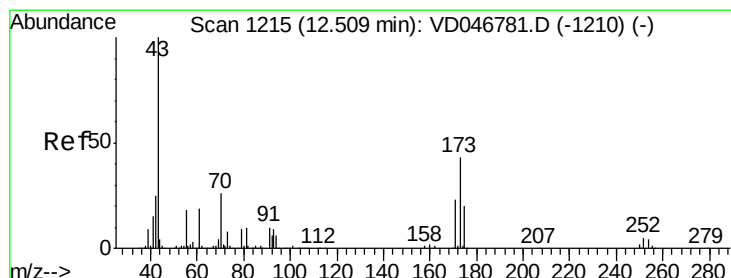
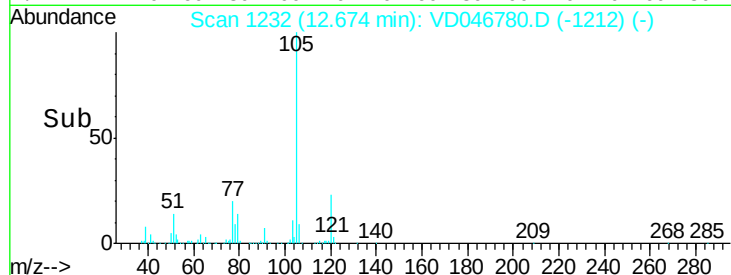
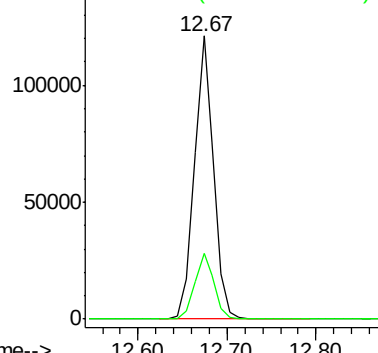
MMDadoda

9/21/2015 11:38:38 AM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 15.93 ug/l

RT: 12.51 min Scan# 1215

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Tgt Ion: 43 Resp: 36365

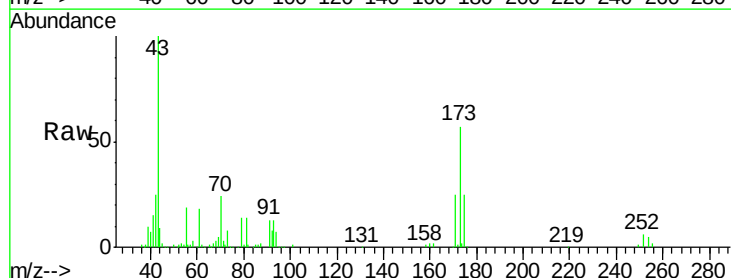
Ion Ratio Lower Upper

43 100

70 23.8 22.1 33.1

55 18.7 14.5 21.7

61 17.8 14.6 21.8

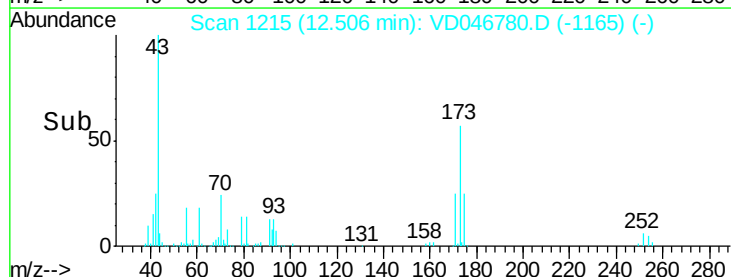
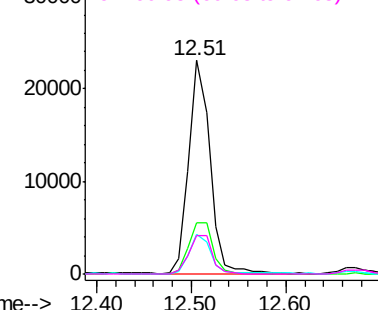


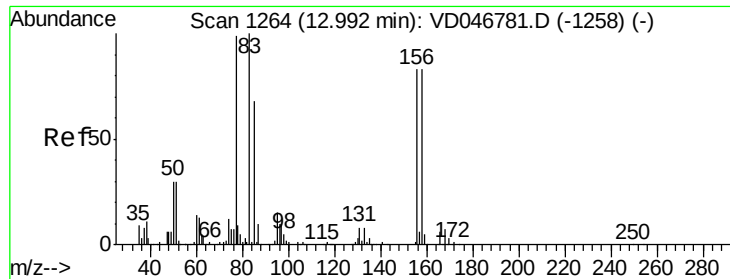
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 18.84 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

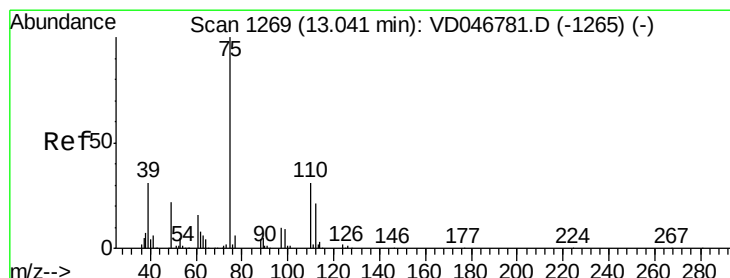
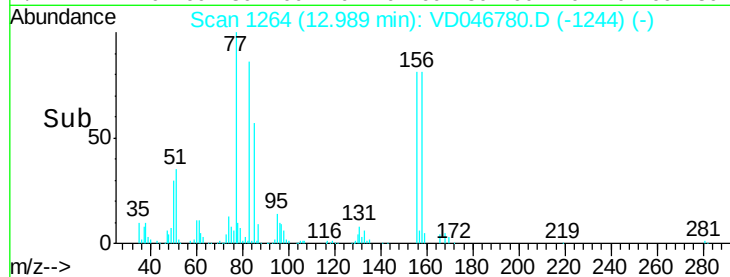
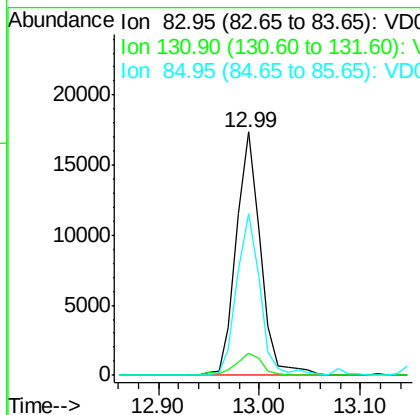
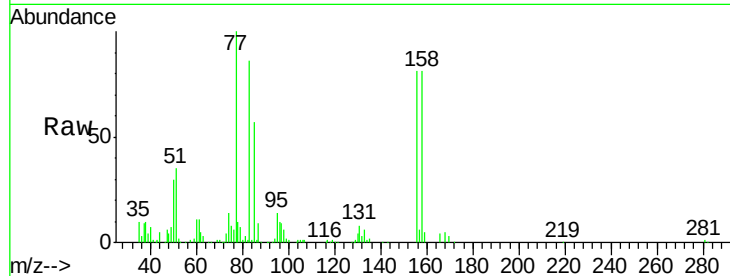
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	28993
Ion Ratio	Lower	Upper	
83	100		
131	9.0	3.9	11.7
85	66.3	30.5	91.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 18.32 ug/l

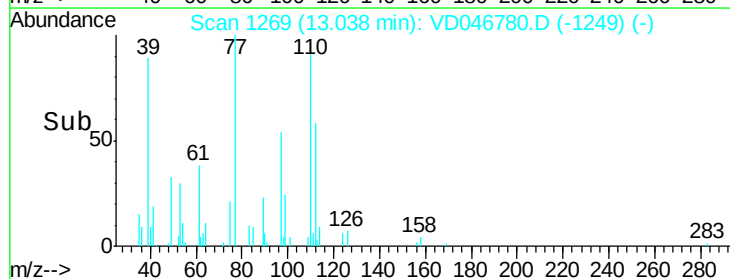
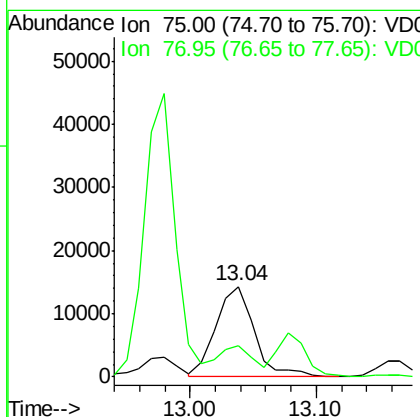
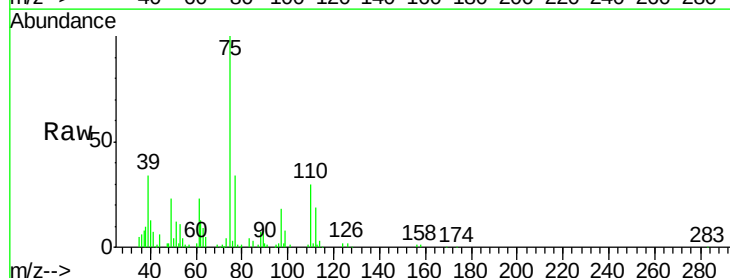
RT: 13.04 min Scan# 1269

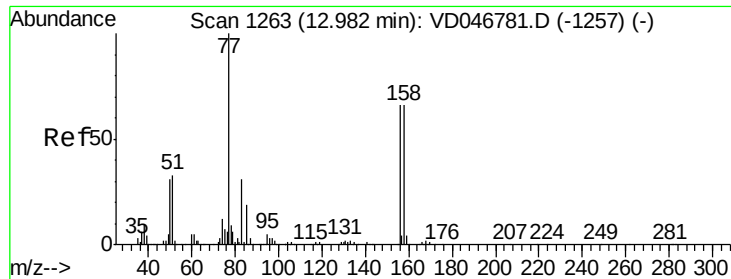
Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Tgt Ion:	75	Resp:	30509
Ion Ratio	Lower	Upper	
75	100		
77	34.2	16.0	48.0





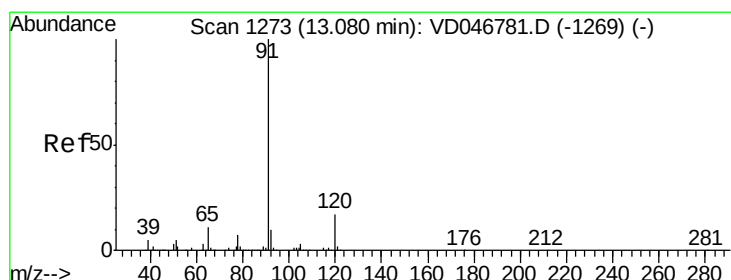
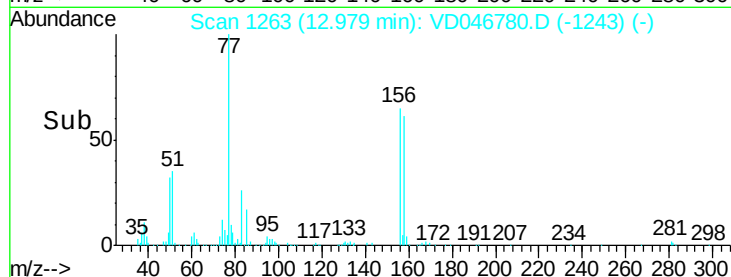
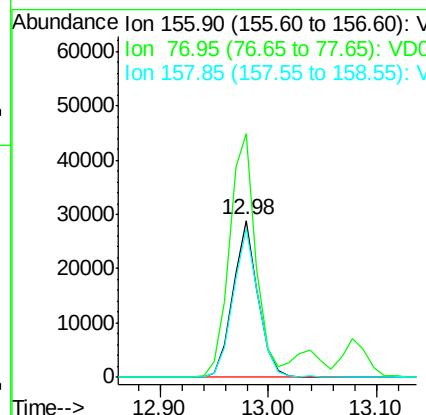
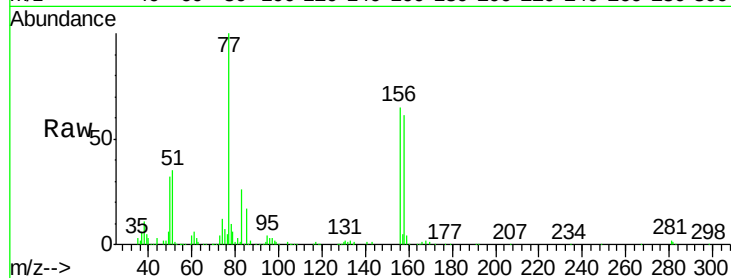
#77
Bromobenzene
Concen: 18.15 ug/l
RT: 12.98 min Scan# 1263
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
156	100		
77	155.0	70.3	210.8
158	95.0	49.0	147.0

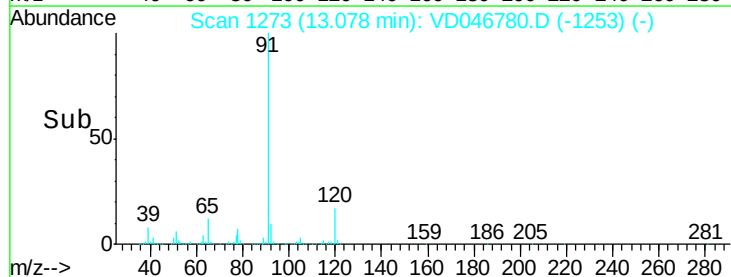
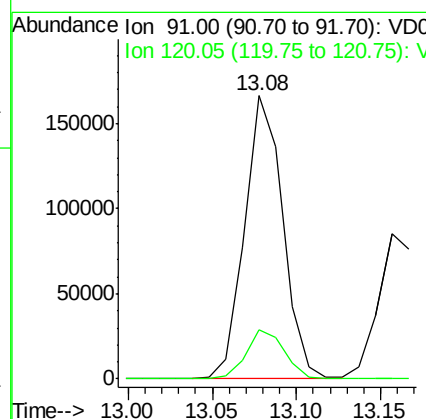
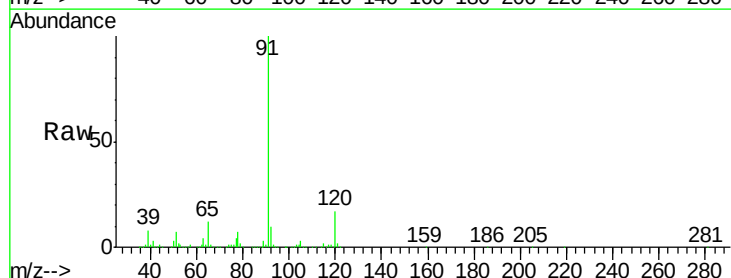
Manual Integrations
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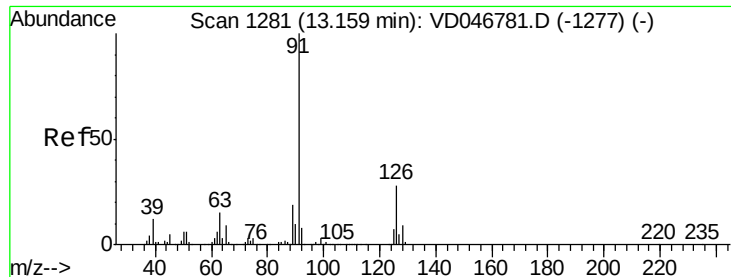
MMDadoda
9/21/2015 11:38:38 AM



#78
n-propylbenzene
Concen: 18.36 ug/l
RT: 13.08 min Scan# 1273
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Lower	Upper
91	100		
120	17.5	9.3	27.7





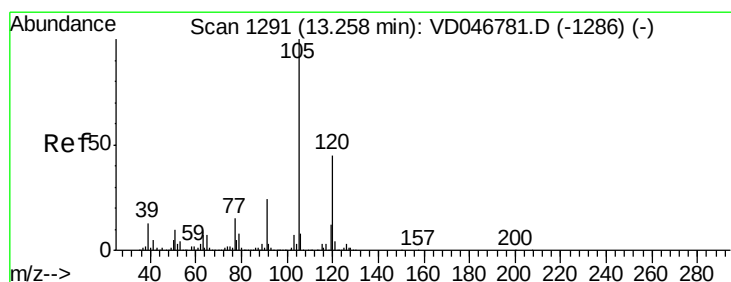
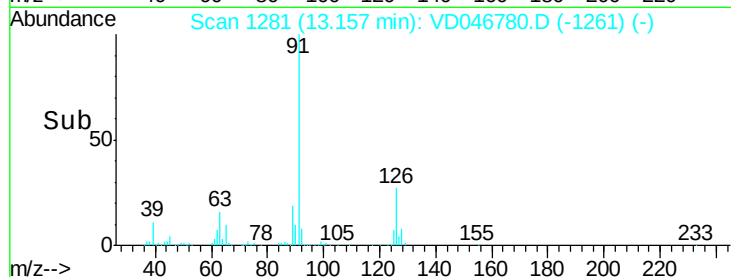
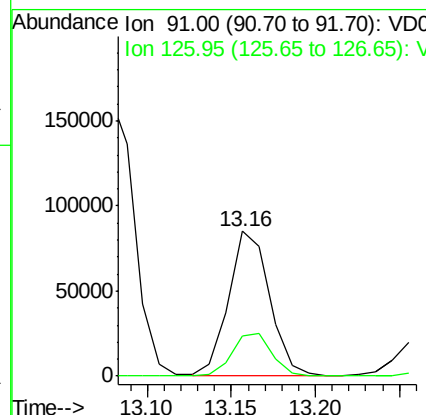
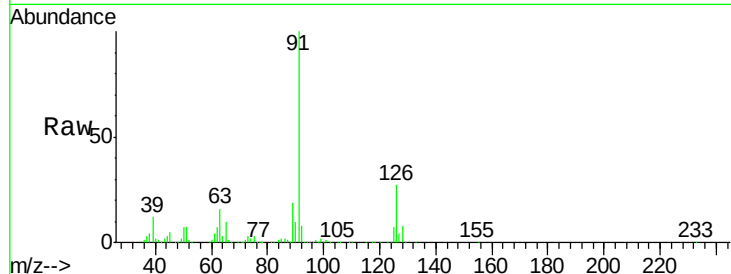
#79
 2-Chlorotoluene
 Concen: 18.15 ug/l
 RT: 13.16 min Scan# 1281
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion: 91 Resp: 142751
 Ion Ratio Lower Upper
 91 100
 126 27.4 14.1 42.4

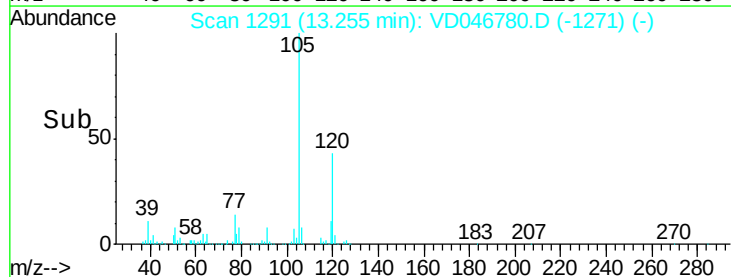
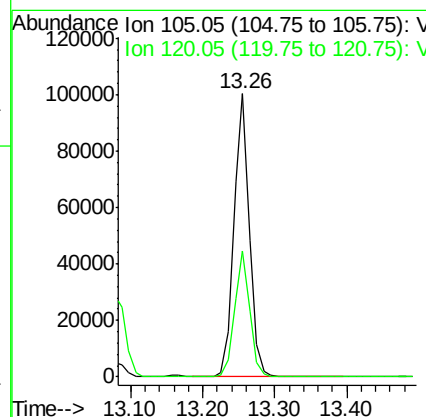
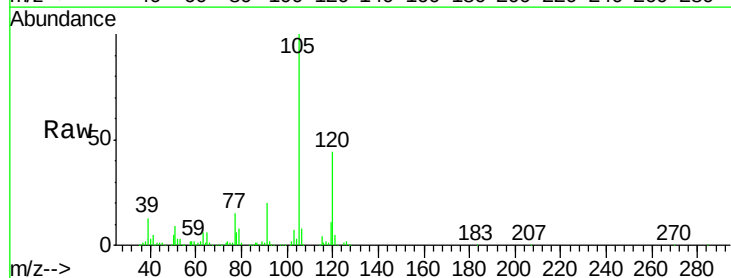
Manual Integrations
 APPROVED

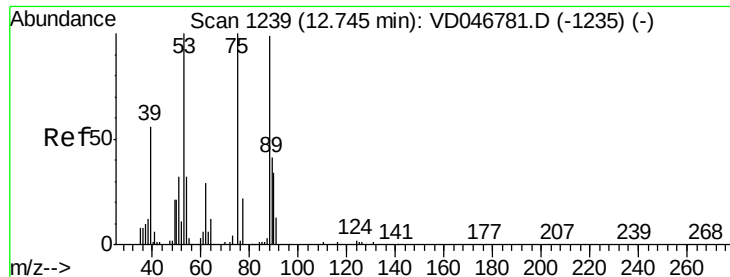
MMDadoda
 9/21/2015 11:38:38 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 18.56 ug/l
 RT: 13.26 min Scan# 1291
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Tgt Ion: 105 Resp: 148606
 Ion Ratio Lower Upper
 105 100
 120 44.3 22.3 66.8





#81

trans-1,4-Dichloro-2-butene

Concen: 16.82 ug/l

RT: 12.74 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

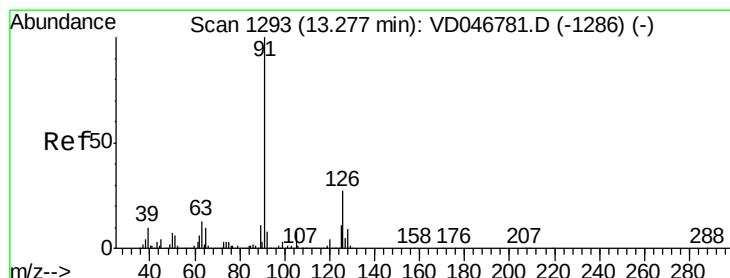
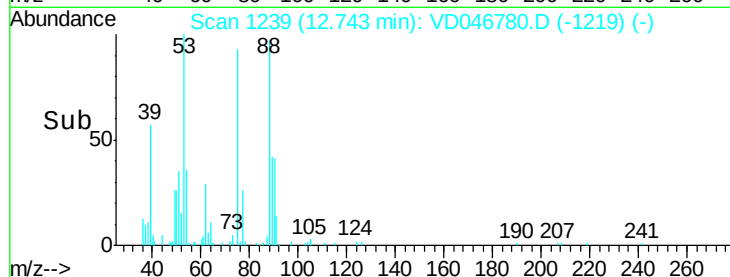
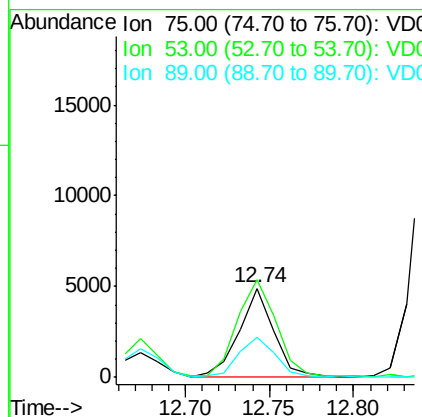
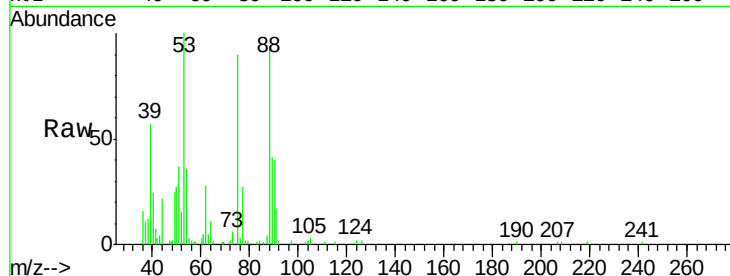
ClientSampleId :

VSTDIC020

Tgt Ion:	75	Resp:	7151
Ion	Ratio	Lower	Upper
75	100		
53	110.6	82.3	123.5
89	45.6	36.6	54.8

Manual Integrations
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9/21/2015 11:38:38 AM



#82

4-Chlorotoluene

Concen: 18.71 ug/l

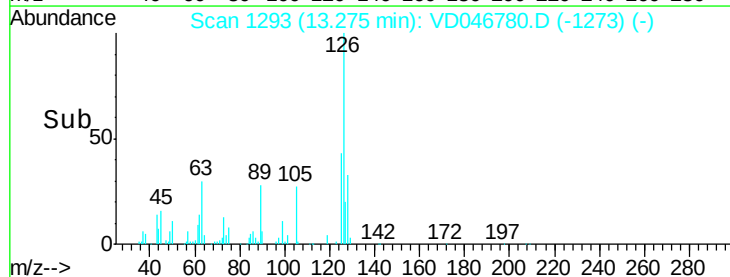
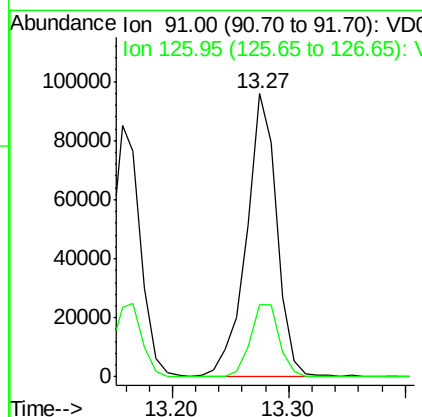
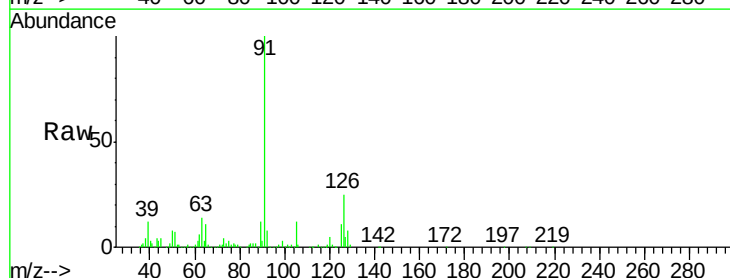
RT: 13.27 min Scan# 1293

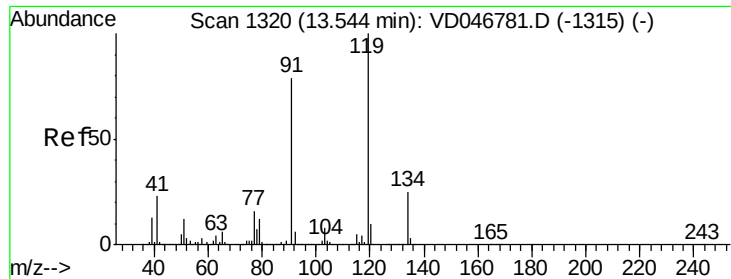
Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Tgt Ion:	91	Resp:	172174
Ion	Ratio	Lower	Upper
91	100		
126	25.4	14.1	42.4





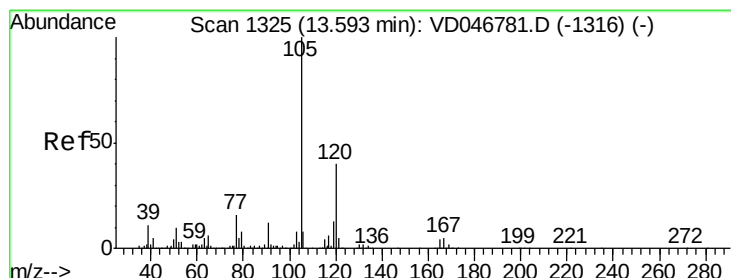
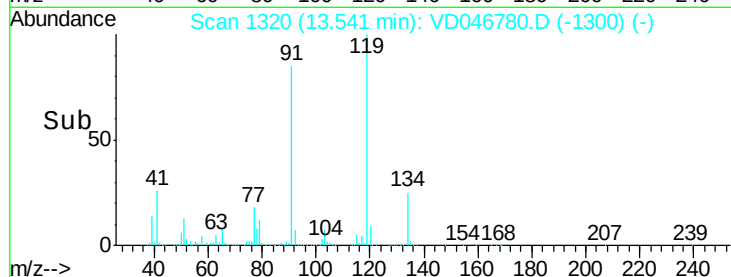
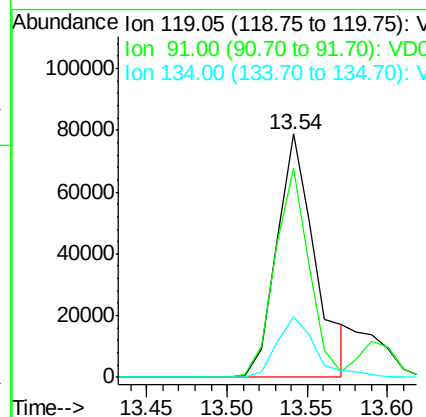
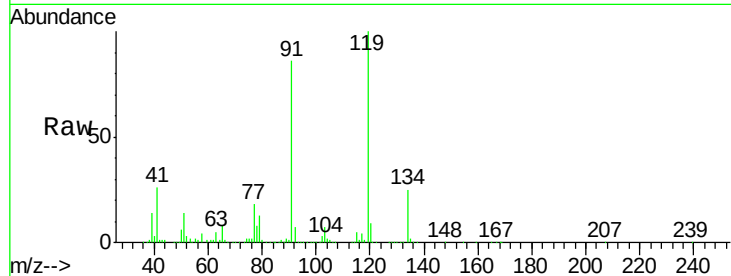
#83
 tert-Butylbenzene
 Concen: 19.24 ug/l m
 RT: 13.54 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	129698		
91	85.7	41.6	124.9	
134	24.7	12.4	37.4	

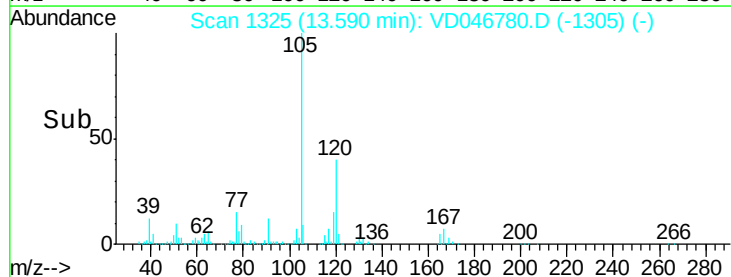
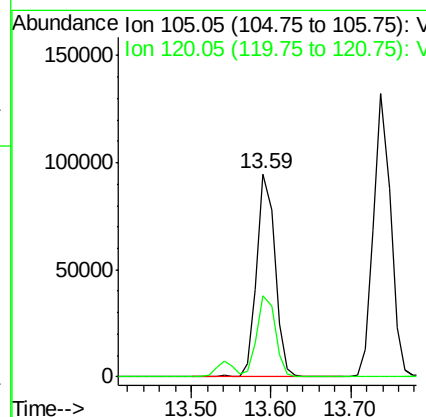
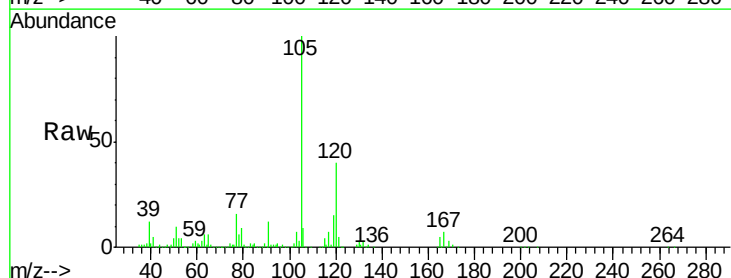
Manual Integrations
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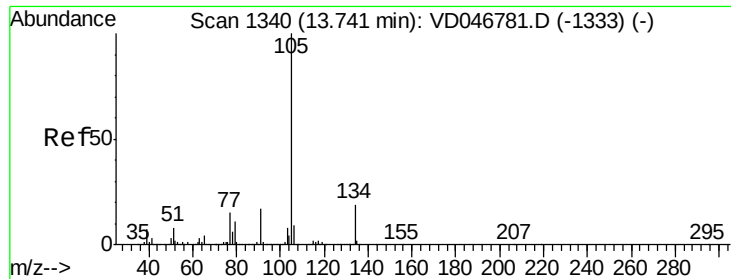
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#84
 1,2,4-Trimethylbenzene
 Concen: 18.64 ug/l
 RT: 13.59 min Scan# 1325
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	149349		
120	39.9	21.1	63.1	





#85

sec-Butylbenzene

Concen: 18.71 ug/l

RT: 13.74 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion:105 Resp: 194410

Ion Ratio Lower Upper

105 100

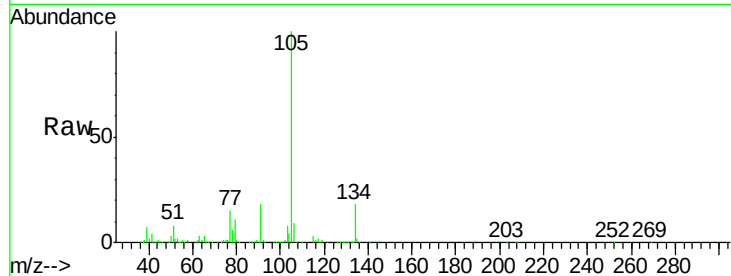
134 18.2 10.1 30.3

Manual Integrations

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

13.74

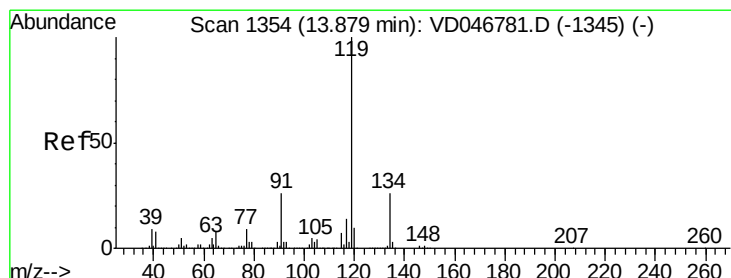
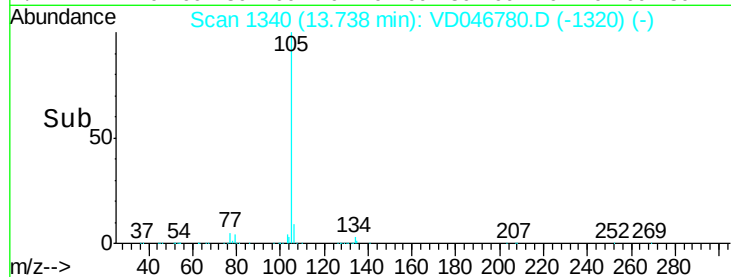
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 18.95 ug/l

RT: 13.88 min Scan# 1354

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

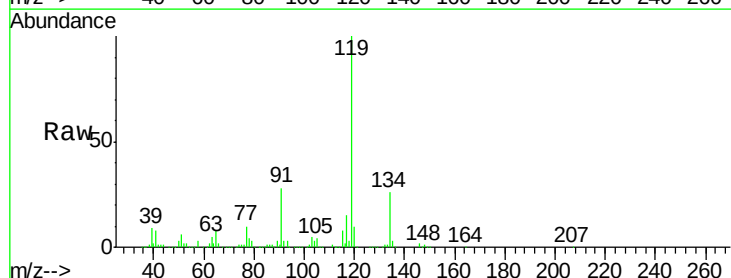
Tgt Ion:119 Resp: 154979

Ion Ratio Lower Upper

119 100

134 26.0 13.0 38.9

91 28.4 13.8 41.3



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

13.88

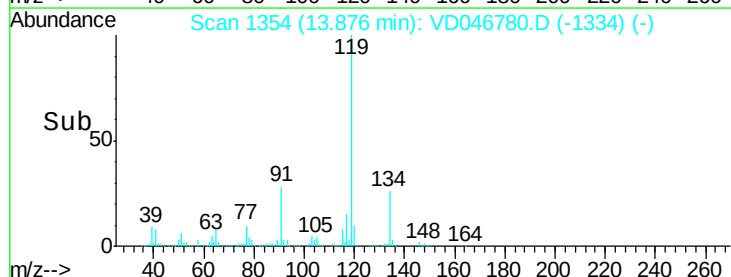
150000

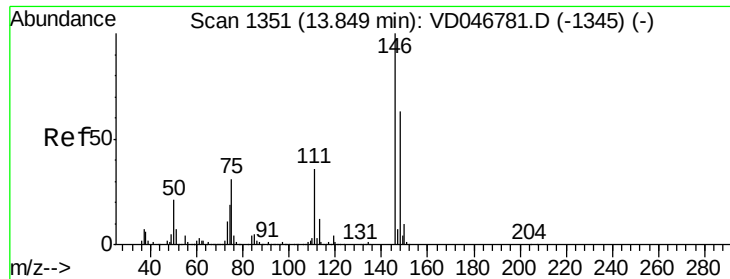
100000

50000

0

Time-->





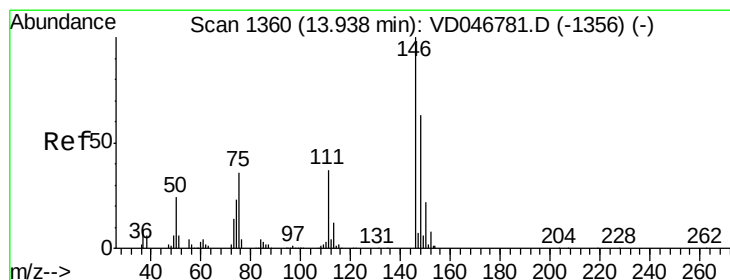
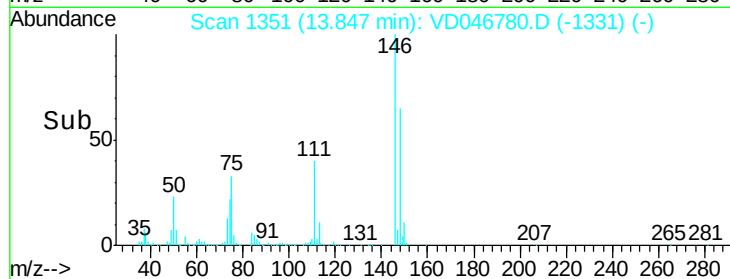
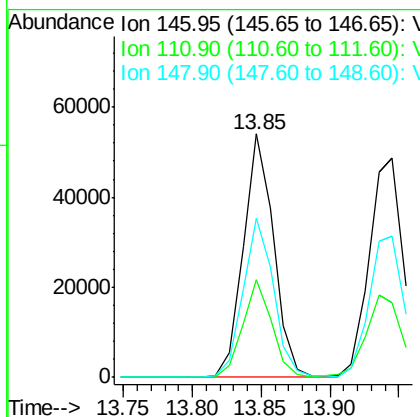
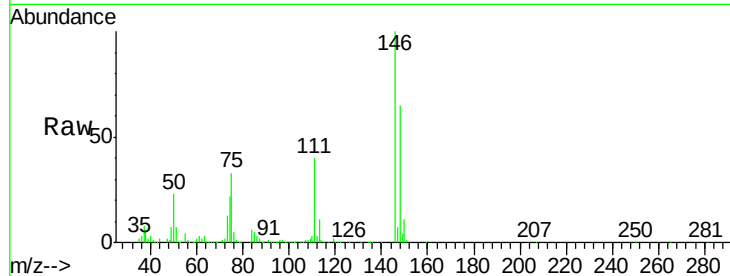
#87
 1,3-Dichlorobenzene
 Concen: 18.21 ug/l
 RT: 13.85 min Scan# 1351
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.3	17.4	52.2
148	65.4	33.0	99.0

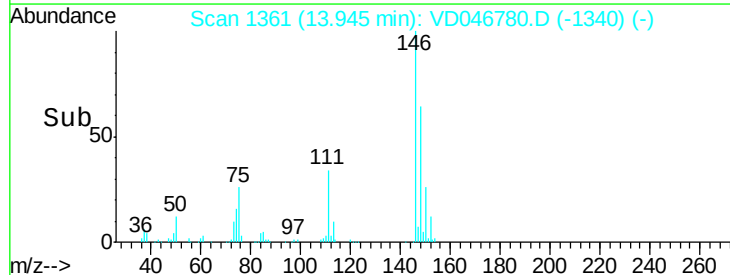
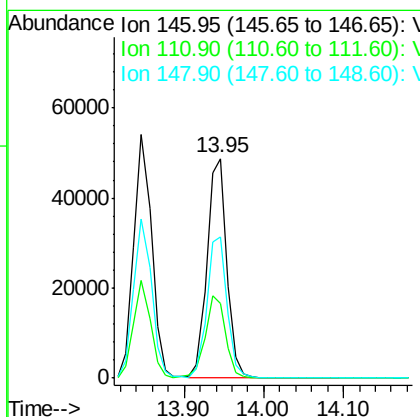
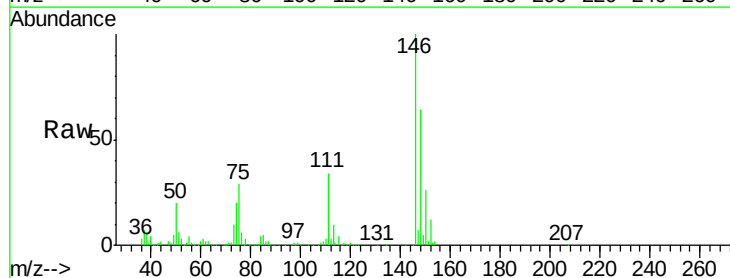
Manual Integrations
 APPROVED

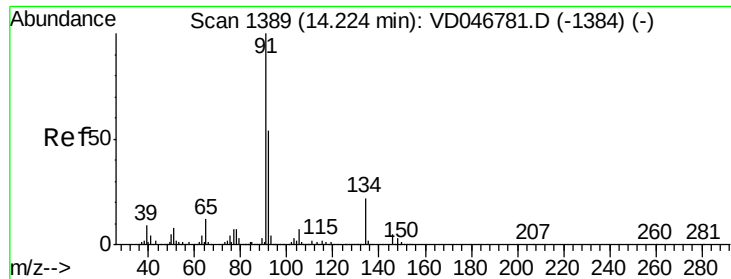
MMDadoda
 9/21/2015 11:38:38 AM



#88
 1,4-Dichlorobenzene
 Concen: 18.76 ug/l
 RT: 13.95 min Scan# 1361
 Delta R.T. 0.01 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.9	17.0	51.0
148	64.3	31.9	95.7





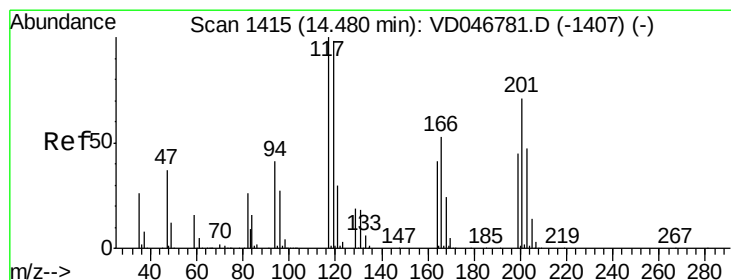
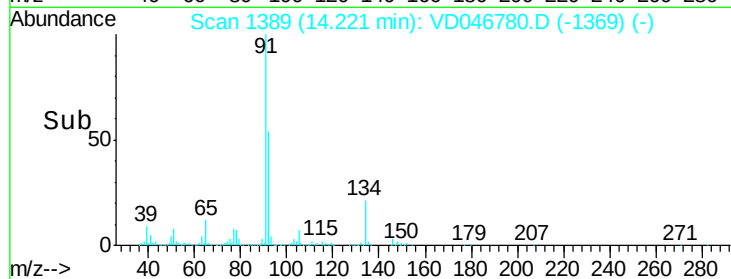
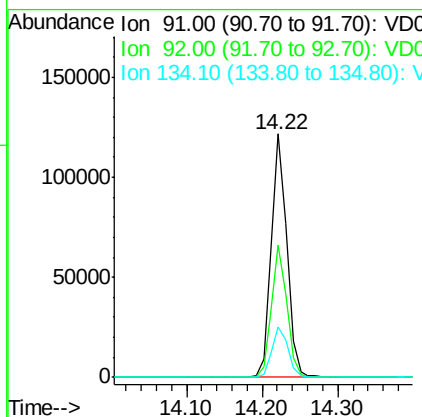
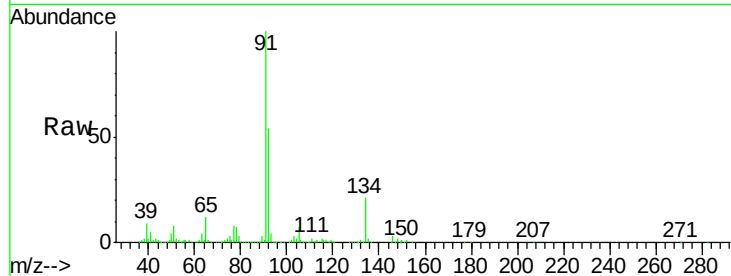
#89
n-Butylbenzene
Concen: 19.00 ug/l
RT: 14.22 min Scan# 1389
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.3	27.1	81.2
134	20.8	9.6	28.6

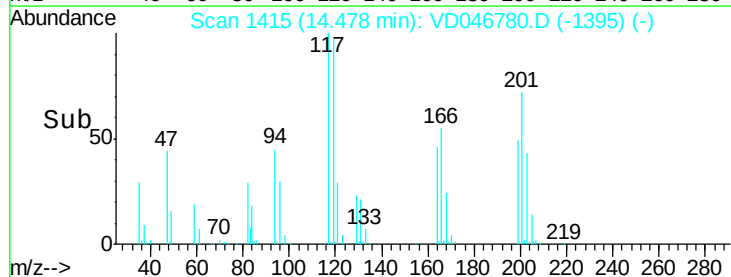
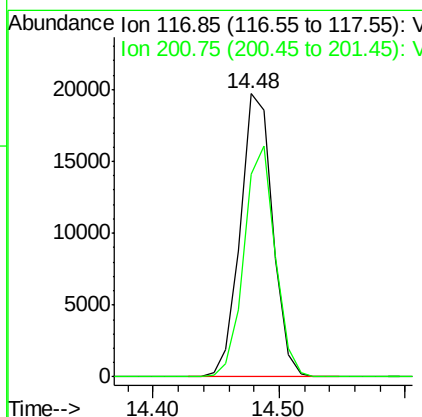
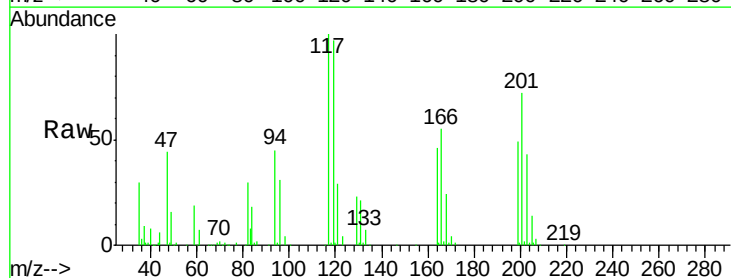
Manual Integrations
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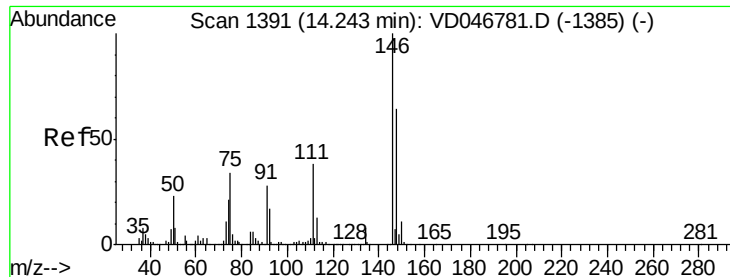
MMDadoda
9/21/2015 11:38:38 AM



#90
Hexachloroethane
Concen: 19.15 ug/l
RT: 14.48 min Scan# 1415
Delta R.T. -0.00 min
Lab File: VD046780.D
Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Lower	Upper
117	100		
201	71.5	41.0	123.0





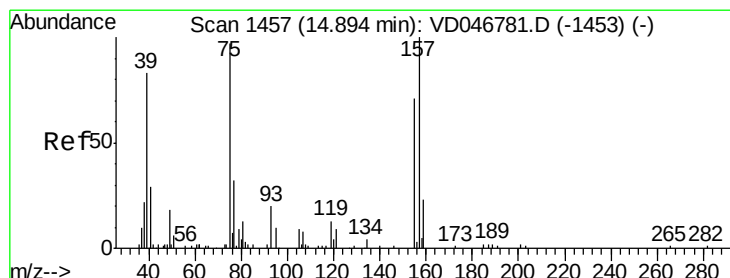
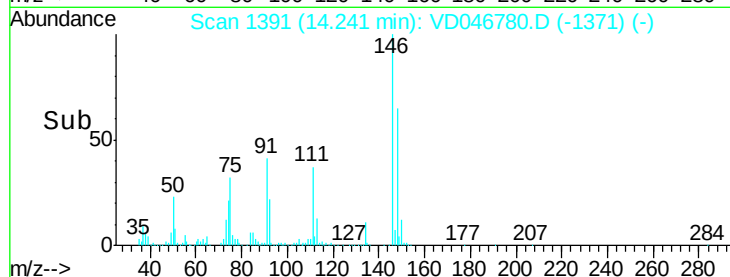
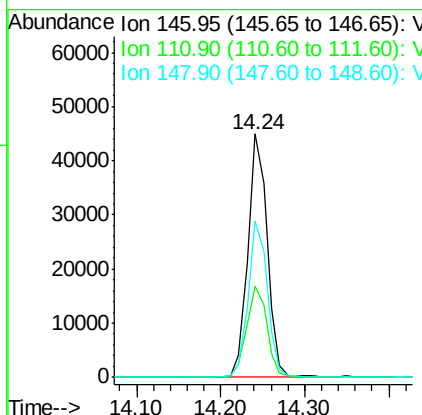
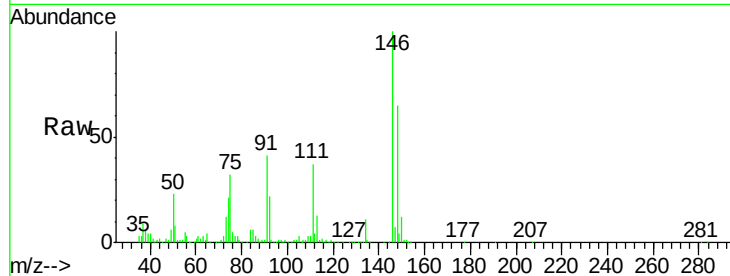
#91
 1,2-Dichlorobenzene
 Concen: 19.36 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.2	54.6
148	64.5	31.1	93.3

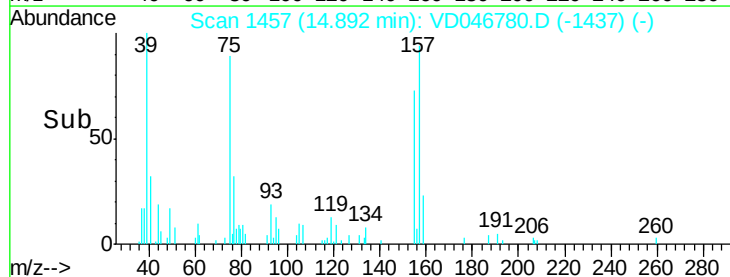
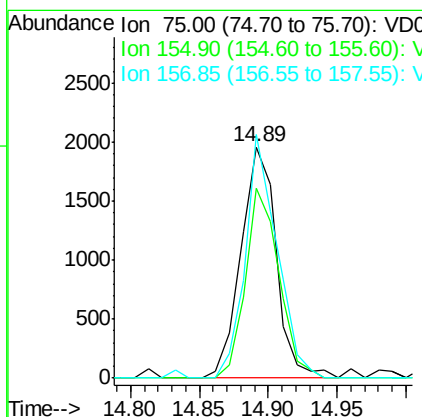
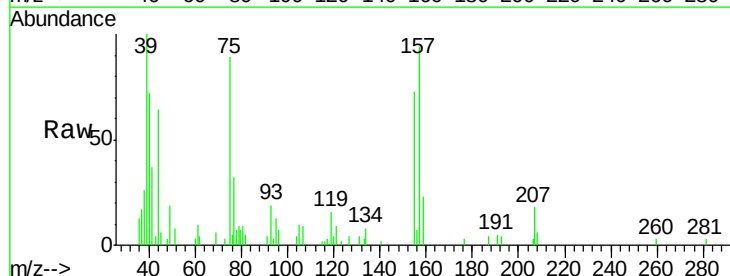
Manual Integrations
 APPROVED

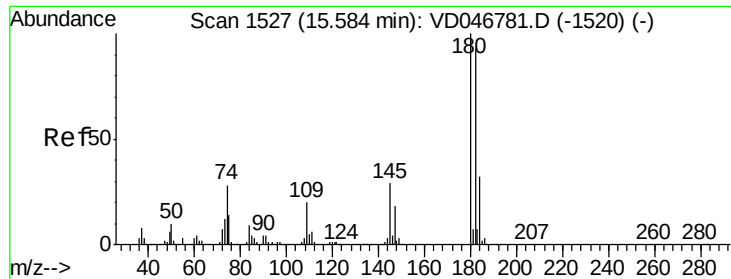
MMDadoda
 9/21/2015 11:38:38 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.60 ug/l
 RT: 14.89 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.0	41.4	124.4
157	105.2	65.0	195.1





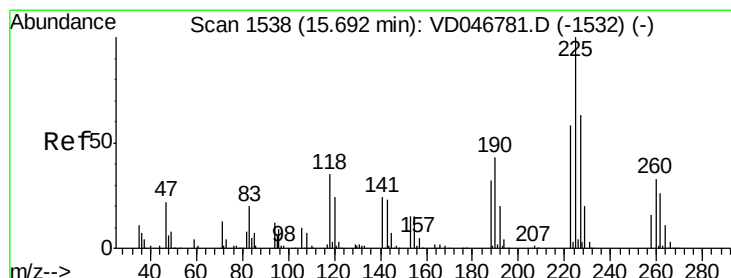
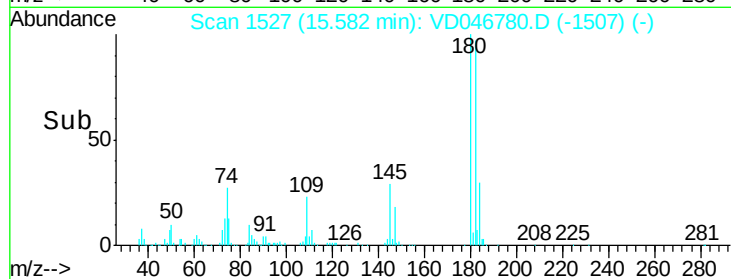
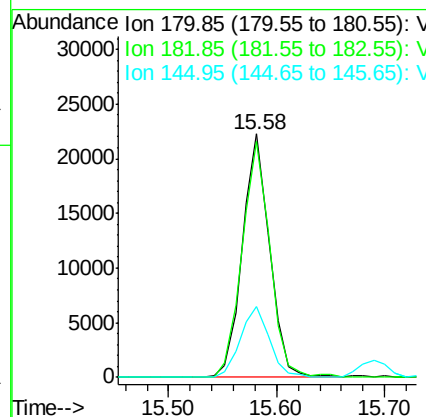
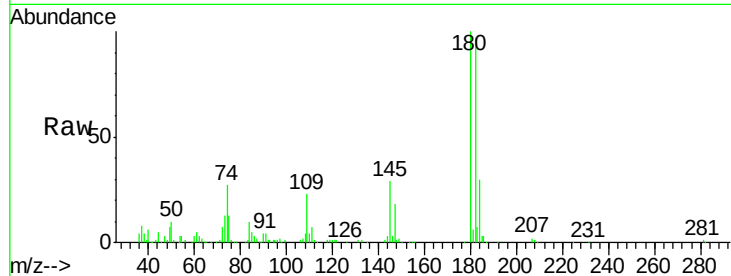
#93
 1,2,4-Trichlorobenzene
 Concen: 17.50 ug/l
 RT: 15.58 min Scan# 1527
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	38972		
182	96.7	47.5	142.5	
145	29.3	14.6	44.0	

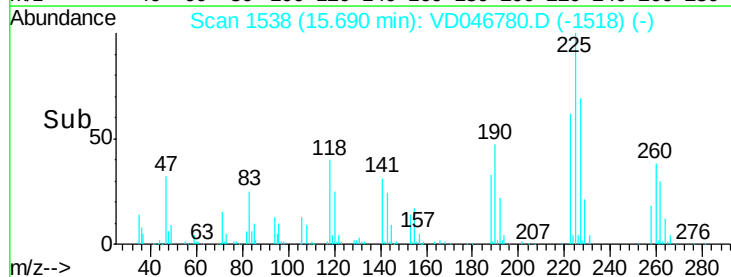
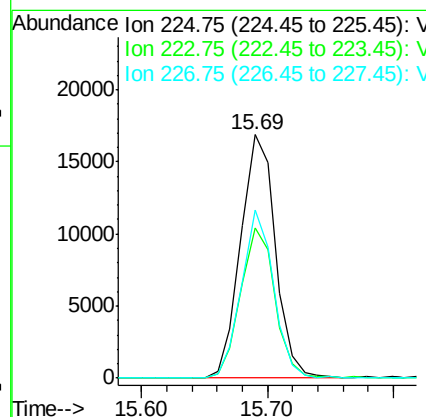
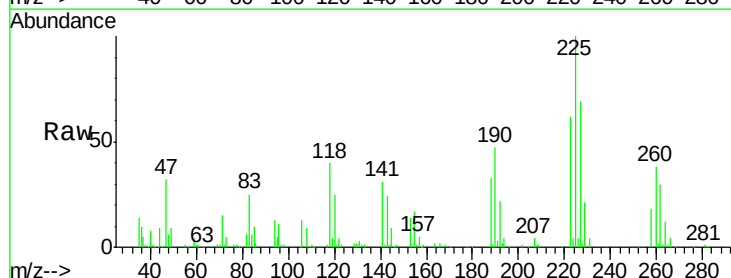
Manual Integrations
 APPROVED

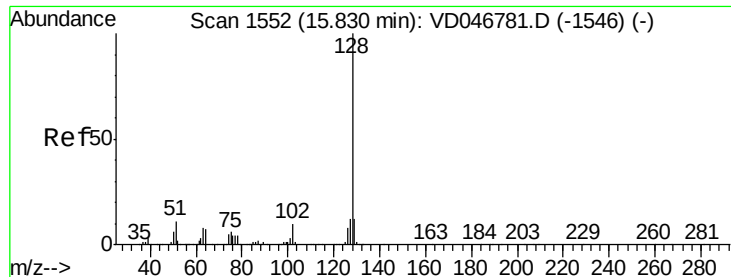
MMDadoda
 9/21/2015 11:38:38 AM



#94
 Hexachlorobutadiene
 Concen: 17.75 ug/l
 RT: 15.69 min Scan# 1538
 Delta R.T. -0.00 min
 Lab File: VD046780.D
 Acq: 18 Sep 2015 12:48

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	32216		
223	61.8	30.4	91.2	
227	68.8	31.3	93.9	





#95

Naphthalene

Concen: 18.05 ug/l

RT: 15.83 min Scan# 1552

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Instrument :

MSVOA_D

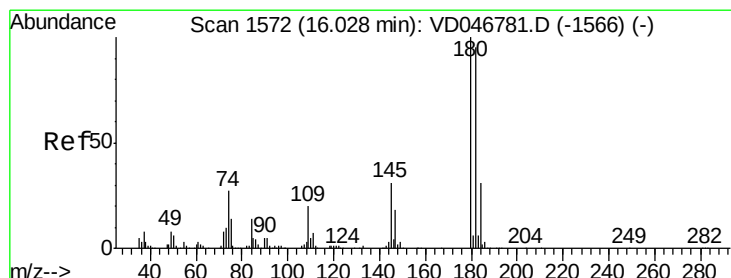
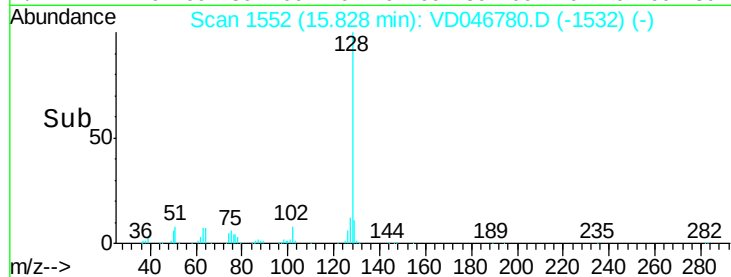
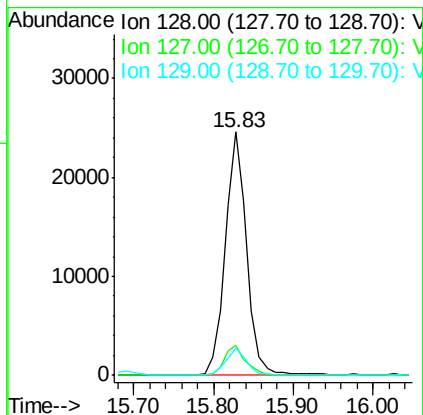
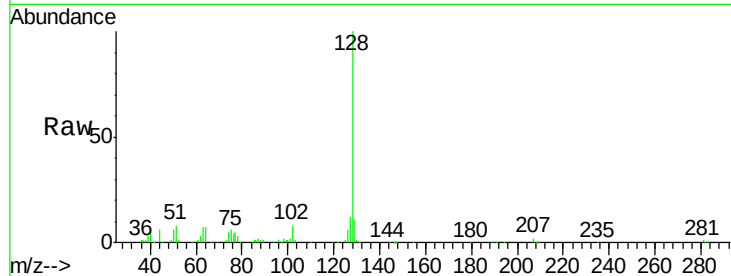
ClientSampleId :

VSTDIC020

Tgt Ion:	128	Resp:	46580
Ion Ratio	Lower	Upper	
128	100		
127	12.1	9.8	14.6
129	11.2	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/21/2015 11:38:38 AM



#96

1,2,3-Trichlorobenzene

Concen: 18.57 ug/l

RT: 16.03 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VD046780.D

Acq: 18 Sep 2015 12:48

Tgt Ion:	180	Resp:	34324
Ion Ratio	Lower	Upper	
180	100		
182	102.7	47.4	142.3
145	31.1	15.4	46.4

