

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090518\
 Data File : VD059970.D
 Acq On : 5 Sep 2018 15:39
 Operator : JC/SY
 Sample : VD0905SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0905SBS01

Manual Integrations
 APPROVED

apatel
 9/6/2018 2:16:51 PM

Quant Time: Sep 05 16:14:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082218S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 03:03:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.38	168	1157999	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	7.41	114	1494621	50.00	ug/l	-0.03
63) Chlorobenzene-d5	11.27	117	1319576	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.37	152	720774	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.75	65	482118	49.40	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	98.80%	
35) Dibromofluoromethane	6.29	113	633219	54.04	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	108.08%	
50) Toluene-d8	9.44	98	1728476	53.15	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	106.30%	
62) 4-Bromofluorobenzene	12.42	95	675354	51.13	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	102.26%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.56	85	170831	16.50	ug/l	96
3) Chloromethane	1.72	50	143689	15.32	ug/l	95
4) Vinyl Chloride	1.82	62	119545	16.26	ug/l	98
5) Bromomethane	2.11	94	10476	8.25	ug/l	87
6) Chloroethane	2.21	64	30979	11.64	ug/l	96
7) Trichlorofluoromethane	2.46	101	161548	18.99	ug/l	98
8) Diethyl Ether	2.80	74	33167	17.38	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.04	101	107609	20.66	ug/l	93
10) Methyl Iodide	3.20	142	73284	15.76	ug/l	99
11) Tert butyl alcohol	3.95	59	71074	95.44	ug/l	98
12) 1,1-Dichloroethene	3.03	96	75832	18.70	ug/l	94
13) Acrolein	2.95	56	16744	51.84	ug/l	98
14) Allyl chloride	3.49	41	168718	18.39	ug/l	92
15) Acrylonitrile	4.05	53	280660	100.64	ug/l	99
16) Acetone	3.13	43	149637	84.15	ug/l	99
17) Carbon Disulfide	3.27	76	177073	14.07	ug/l	98
18) Methyl Acetate	3.51	43	67164	18.09	ug/l	100
19) Methyl tert-butyl Ether	4.09	73	439130	19.14	ug/l	99
20) Methylene Chloride	3.67	84	287932	22.19	ug/l	95
21) trans-1,2-Dichloroethene	4.06	96	205866	18.42	ug/l	98
22) Diisopropyl ether	4.82	45	921787	19.70	ug/l	95
23) Vinyl Acetate	4.76	43	2643164	101.05	ug/l	100
24) 1,1-Dichloroethane	4.72	63	398958	19.74	ug/l	99
25) 2-Butanone	5.59	43	462647	87.85	ug/l	96
26) 2,2-Dichloropropane	5.55	77	330378	19.55	ug/l	99
27) cis-1,2-Dichloroethene	5.55	96	248102	20.28	ug/l	99
28) Bromochloromethane	5.90	49	201515	20.80	ug/l	90
29) Tetrahydrofuran	5.93	42	251776	100.42	ug/l	99
30) Chloroform	6.07	83	418247	20.36	ug/l	100
31) Cyclohexane	6.33	56	315278	16.97	ug/l	98
32) 1,1,1-Trichloroethane	6.26	97	323847	18.57	ug/l	98
36) 1,1-Dichloropropene	6.49	75	288668	21.31	ug/l	98
37) Ethyl Acetate	5.67	43	224783	21.32	ug/l #	97
38) Carbon Tetrachloride	6.47	117	276528	20.22	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090518\
 Data File : VD059970.D
 Acq On : 5 Sep 2018 15:39
 Operator : JC/SY
 Sample : VD0905SBS01
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0905SBS01

Manual Integrations
 APPROVED

apatel
 9/6/2018 2:16:51 PM

Quant Time: Sep 05 16:14:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082218S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 03:03:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.01	83	291326	19.90	ug/l	96
40) Benzene	6.76	78	778611	22.10	ug/l	98
41) Methacrylonitrile	5.89	41	99889m	18.81	ug/l	
42) 1,2-Dichloroethane	6.86	62	239930	21.21	ug/l	100
43) Isopropyl Acetate	8.33	43	288074	21.00	ug/l	98
44) Trichloroethene	7.72	130	226526	21.84	ug/l	97
45) 1,2-Dichloropropane	8.08	63	219357	22.28	ug/l	98
46) Dibromomethane	8.19	93	137047	21.64	ug/l	97
47) Bromodichloromethane	8.46	83	310104	21.63	ug/l	99
48) Methyl methacrylate	8.22	41	166526	20.83	ug/l	96
49) 1,4-Dioxane	8.21	88	31052	435.00	ug/l #	89
51) 4-Methyl-2-Pentanone	9.32	43	968434	94.71	ug/l	96
52) Toluene	9.53	92	481480	21.31	ug/l	99
53) t-1,3-Dichloropropene	9.90	75	276990	20.89	ug/l	97
54) cis-1,3-Dichloropropene	9.08	75	328025	21.34	ug/l	96
55) 1,1,2-Trichloroethane	10.17	97	179739	21.77	ug/l	99
56) Ethyl methacrylate	10.01	69	207515	21.77	ug/l	98
57) 1,3-Dichloropropane	10.36	76	274164	22.94	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.90	63	550295	120.37	ug/l	100
59) 2-Hexanone	10.47	43	710784	94.24	ug/l	98
60) Dibromochloromethane	10.62	129	211675	20.39	ug/l	98
61) 1,2-Dibromoethane	10.75	107	173195	20.74	ug/l	99
64) Tetrachloroethene	10.24	164	203003	19.90	ug/l	99
65) Chlorobenzene	11.30	112	565793	21.58	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.41	131	205146	21.41	ug/l	98
67) Ethyl Benzene	11.42	91	951834	21.58	ug/l	100
68) m/p-Xylenes	11.55	106	691451	43.05	ug/l	93
69) o-Xylene	11.92	106	336074	21.39	ug/l	91
70) Styrene	11.95	104	584442	21.49	ug/l	100
71) Bromoform	12.11	173	152715	18.42	ug/l	98
73) Isopropylbenzene	12.26	105	940542	20.44	ug/l	99
74) N-amyl acetate	12.13	43	379241	18.82	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.55	83	217139	20.40	ug/l	98
76) 1,2,3-Trichloropropane	12.59	75	216090	19.29	ug/l	98
77) Bromobenzene	12.53	156	272849	21.39	ug/l	94
78) n-propylbenzene	12.63	91	1201298	20.62	ug/l	99
79) 2-Chlorotoluene	12.70	91	648456	19.68	ug/l	98
80) 1,3,5-Trimethylbenzene	12.78	105	738026	20.18	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.33	75	60408	17.34	ug/l	97
82) 4-Chlorotoluene	12.80	91	763868	20.33	ug/l	98
83) tert-Butylbenzene	13.04	119	847352	20.33	ug/l	98
84) 1,2,4-Trimethylbenzene	13.08	105	759371	19.92	ug/l	98
85) sec-Butylbenzene	13.22	105	997396	20.35	ug/l	95
86) p-Isopropyltoluene	13.34	119	817011	20.50	ug/l	100
87) 1,3-Dichlorobenzene	13.31	146	481400	21.14	ug/l	98
88) 1,4-Dichlorobenzene	13.38	146	480396	21.14	ug/l	98
89) n-Butylbenzene	13.64	91	882346	20.50	ug/l	98
90) Hexachloroethane	13.85	117	181164	16.93	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	438695	22.65	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.22	75	29035	17.74	ug/l	96

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD090518\
Data File : VD059970.D
Acq On : 5 Sep 2018 15:39
Operator : JC/SY
Sample : VD0905SBSD01
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD0905SBSD01

Manual Integrations
APPROVED

apatel
9/6/2018 2:16:51 PM

Quant Time: Sep 05 16:14:10 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D082218S.M
Quant Title : SW846 8260
QLast Update : Thu Aug 23 03:03:08 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.78	180	336626	20.30	ug/l	98
94) Hexachlorobutadiene	14.87	225	225845	20.78	ug/l	98
95) Naphthalene	14.96	128	513179	20.25	ug/l	99
96) 1,2,3-Trichlorobenzene	15.11	180	292037	20.59	ug/l	98

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

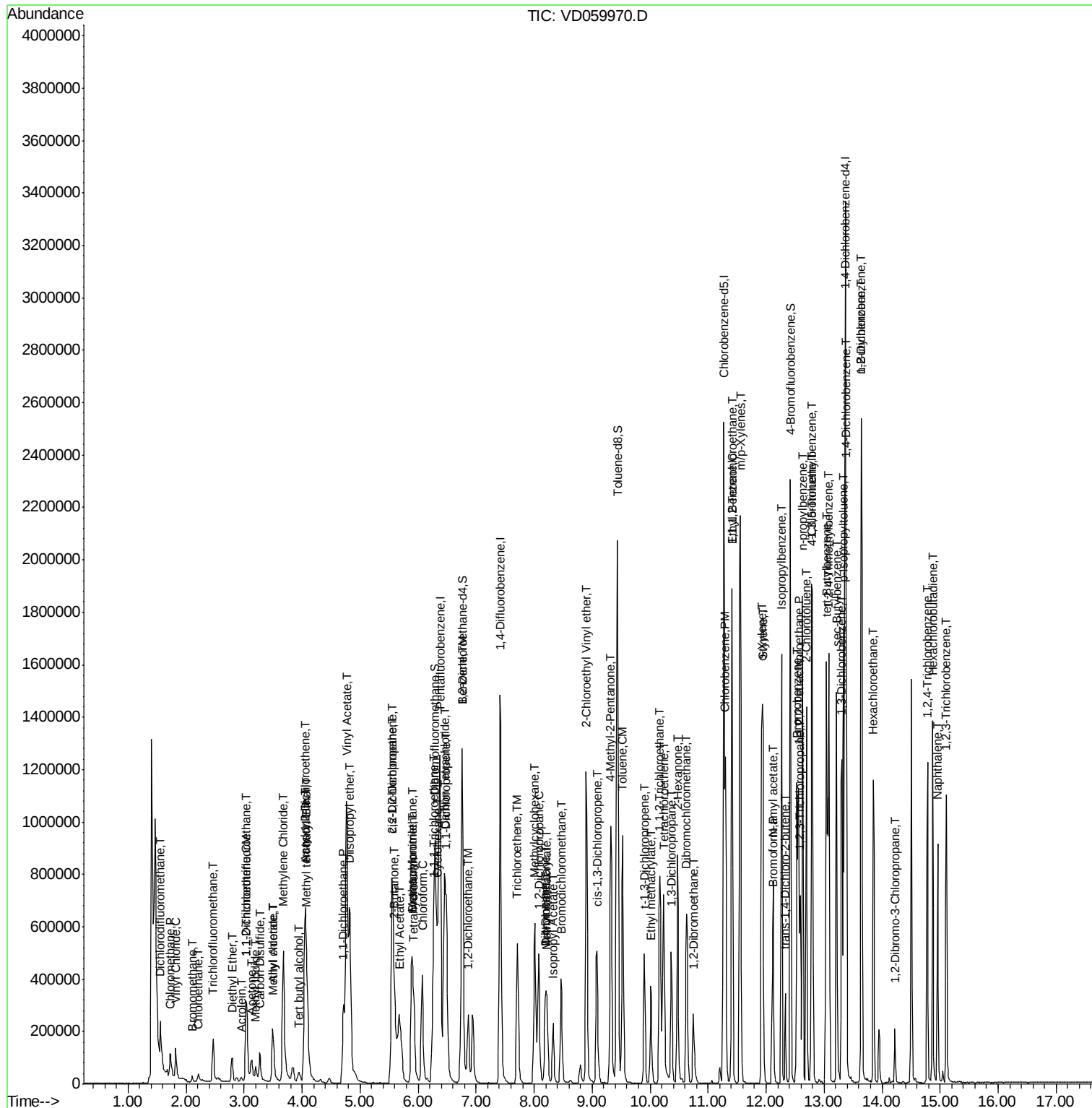
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD090518\
Data File : VD059970.D
Acq On : 5 Sep 2018 15:39
Operator : JC/SY
Sample : VD0905SBSD01
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 12 Sample Multiplier: 1

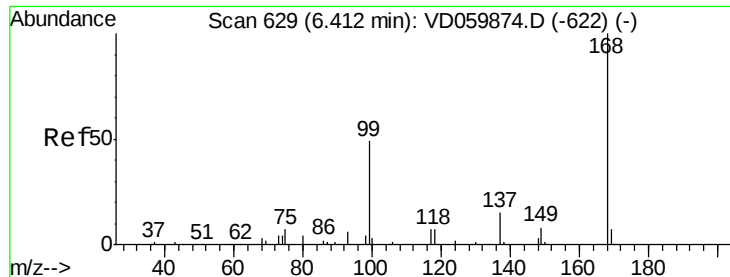
Instrument :
MSVOA_D
ClientSampleID :
VD0905SBSD01

Manual Integrations
APPROVED

apatel
9/6/2018 2:16:51 PM

Quant Time: Sep 05 16:14:10 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D082218S.M
Quant Title : SW846 8260
QLast Update : Thu Aug 23 03:03:08 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.38 min Scan# 625

Delta R.T. -0.03 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

ClientSampleId :

VD0905SBSD01

Tot Ion:168 Resp: 1157999

Ion Ratio Lower Upper

168 100

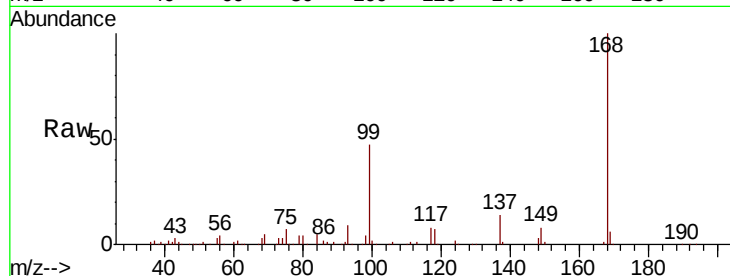
99 46.7 42.2 63.2

Manual Integrations

APPROVED

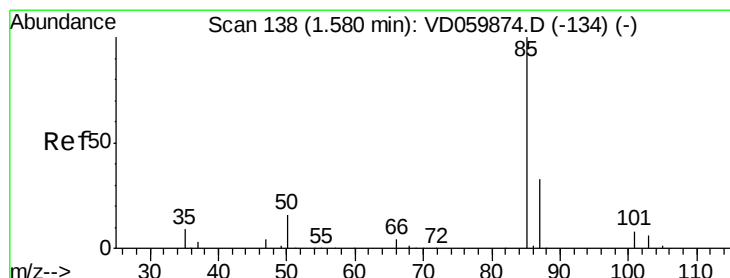
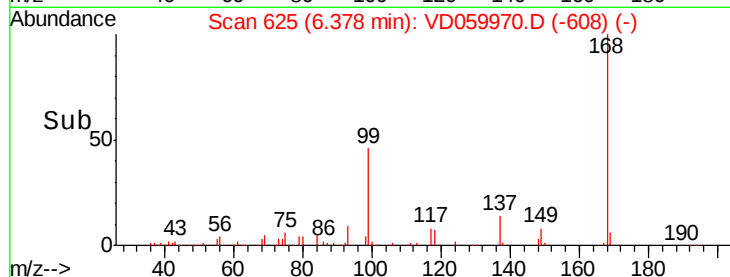
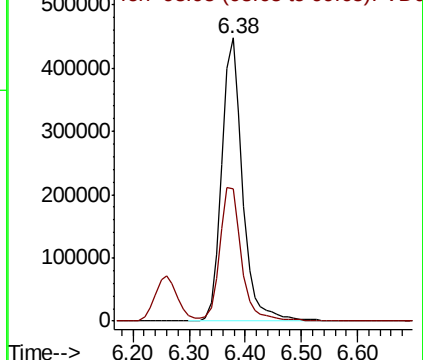
apatel

9/6/2018 2:16:51 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 16.50 ug/l

RT: 1.56 min Scan# 135

Delta R.T. -0.02 min

Lab File: VD059970.D

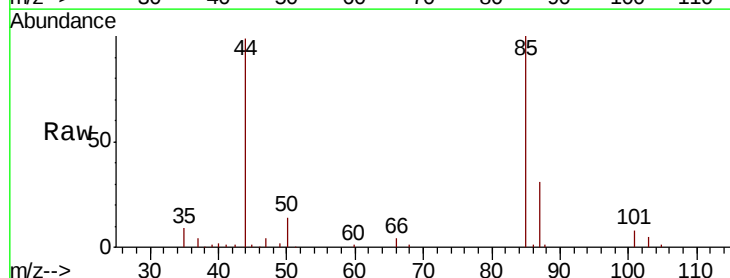
Acq: 5 Sep 2018 15:39

Tgt Ion: 85 Resp: 170831

Ion Ratio Lower Upper

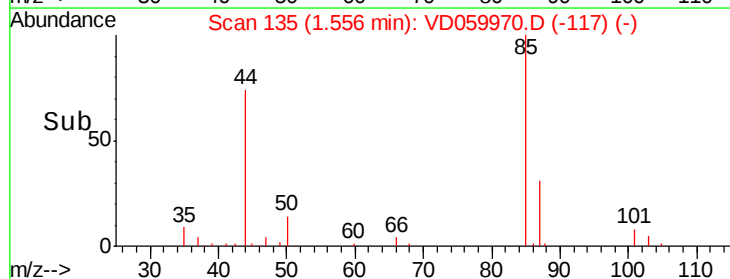
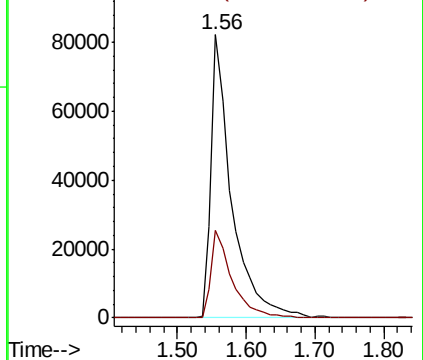
85 100

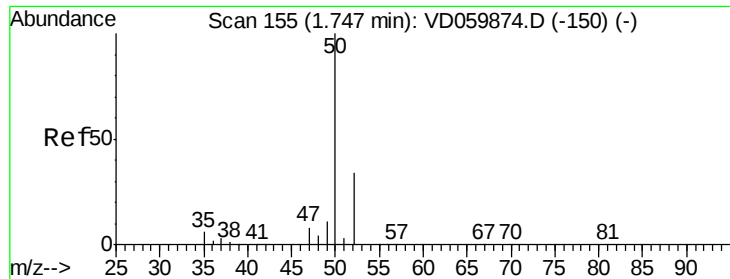
87 31.0 16.8 50.3



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 15.32 ug/l

RT: 1.72 min Scan# 152

Delta R.T. -0.02 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

ClientSampleId :

VD0905SBS01

Tot Ion: 50 Resp: 143689

Ion Ratio Lower Upper

50 100

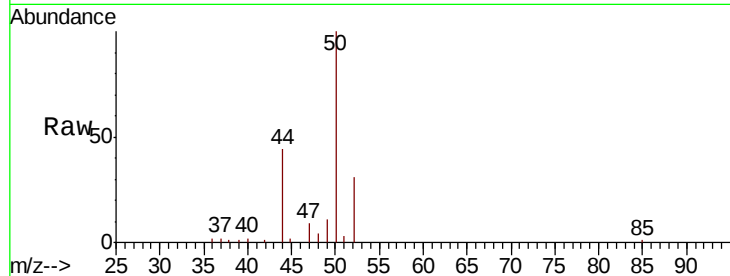
52 31.0 27.0 40.6

Manual Integrations

APPROVED

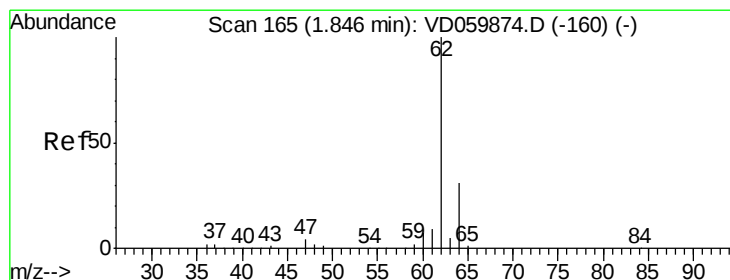
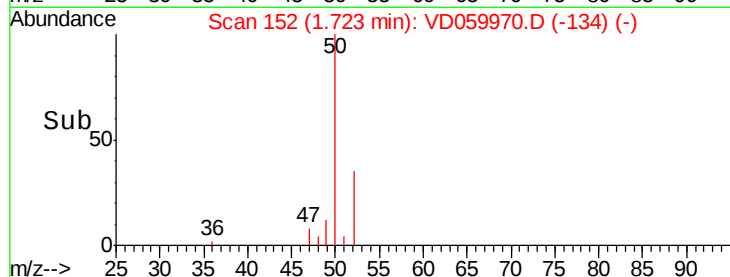
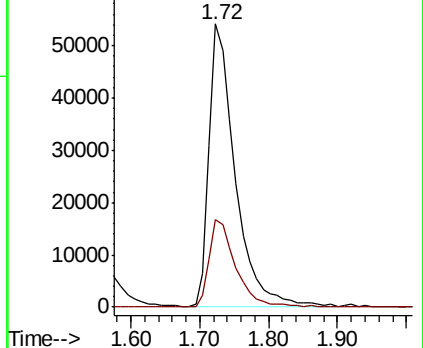
apatel

9/6/2018 2:16:51 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 16.26 ug/l

RT: 1.82 min Scan# 162

Delta R.T. -0.02 min

Lab File: VD059970.D

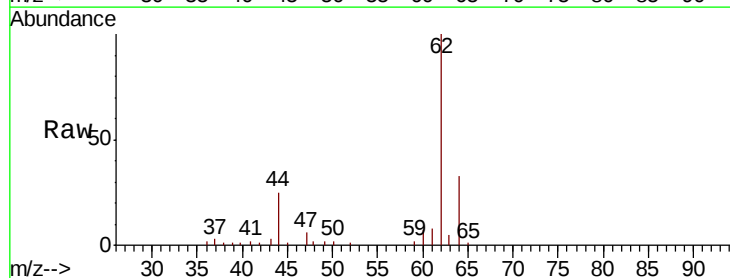
Acq: 5 Sep 2018 15:39

Tgt Ion: 62 Resp: 119545

Ion Ratio Lower Upper

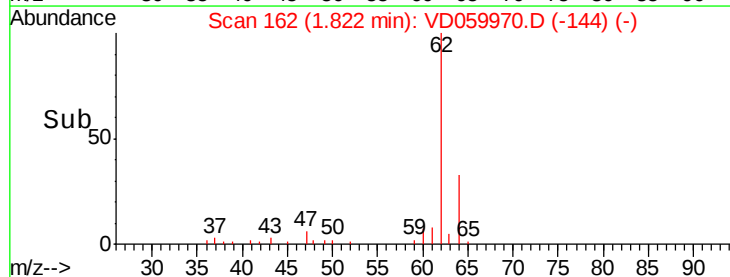
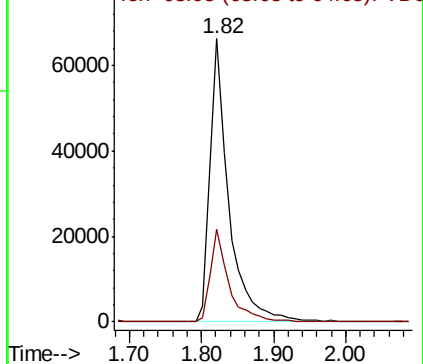
62 100

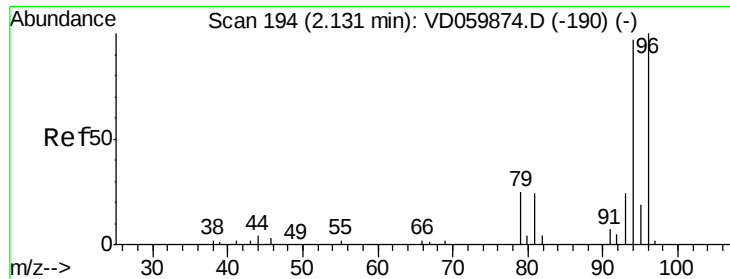
64 32.6 25.0 37.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 8.25 ug/l

RT: 2.11 min Scan# 191

Delta R.T. -0.02 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Tot Ion: 94 Resp: 10476

Ion Ratio Lower Upper

94 100

96 89.7 82.4 123.6

Instrument :

MSVOA_D

ClientSampleId :

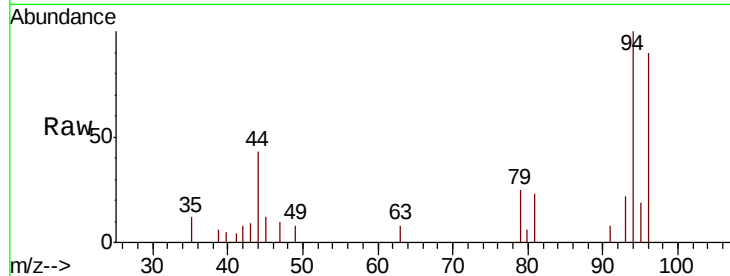
VD0905SBSD01

Manual Integrations

APPROVED

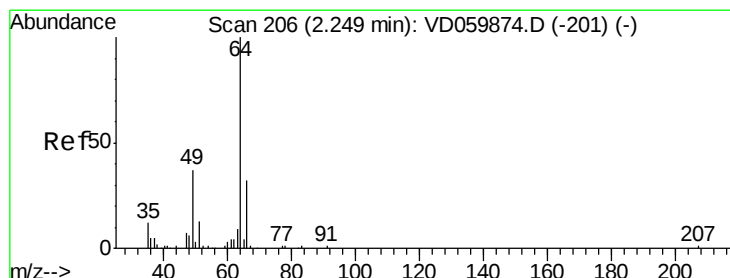
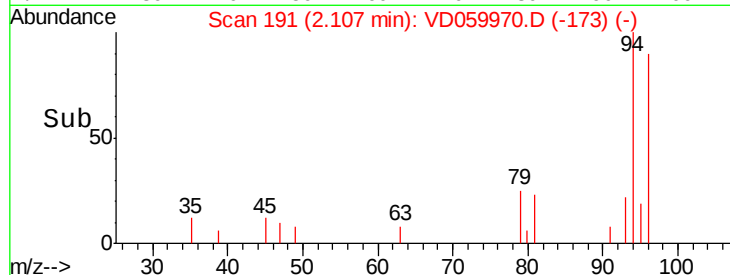
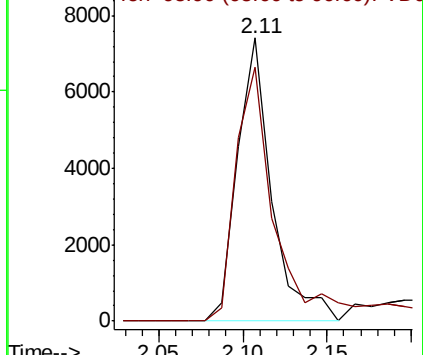
apatel

9/6/2018 2:16:51 PM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 11.64 ug/l

RT: 2.21 min Scan# 201

Delta R.T. -0.04 min

Lab File: VD059970.D

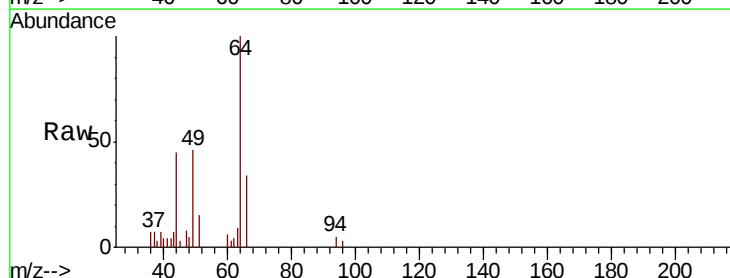
Acq: 5 Sep 2018 15:39

Tgt Ion: 64 Resp: 30979

Ion Ratio Lower Upper

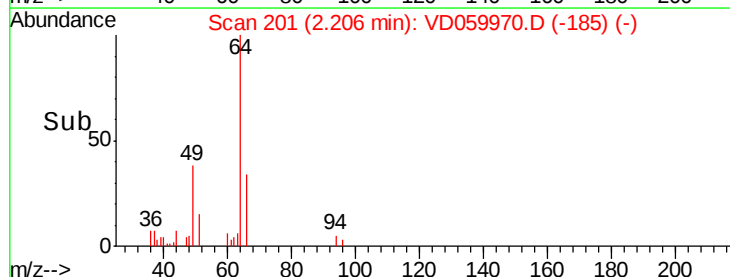
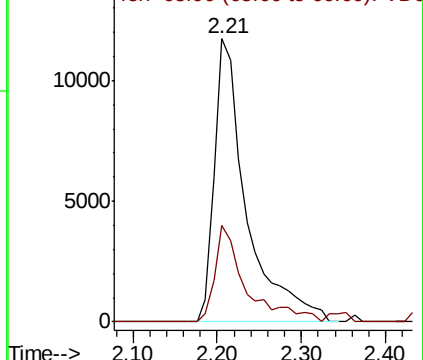
64 100

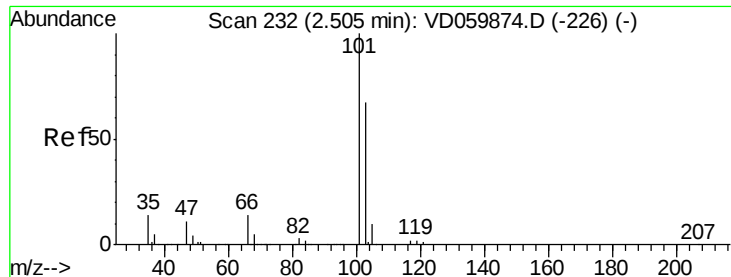
66 34.0 25.3 37.9



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

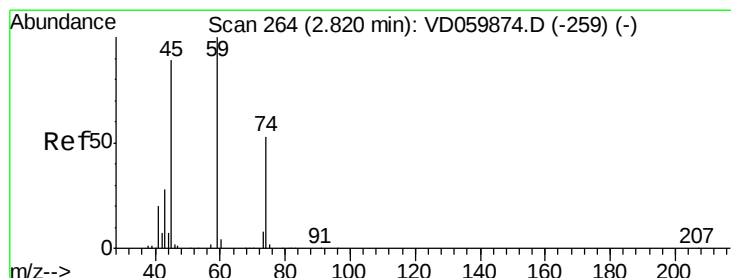
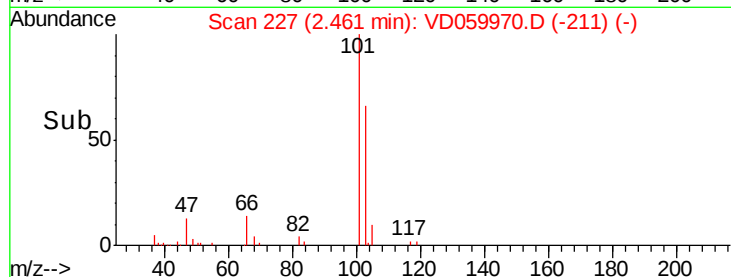
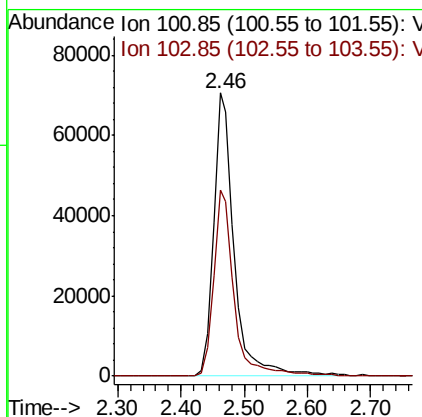
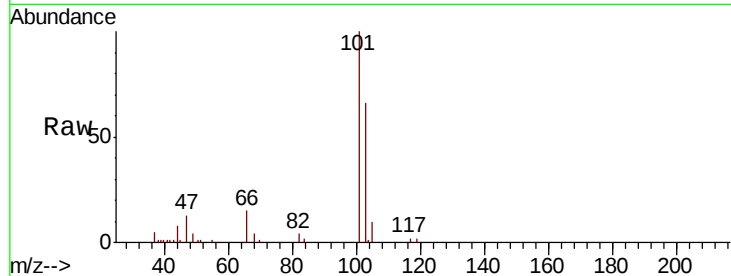
Trichlorofluoromethane
 Concen: 18.99 ug/l
 RT: 2.46 min Scan# 227
 Delta R.T. -0.04 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0905SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	161548		
103	65.8	53.7	80.5	

Manual Integrations
 APPROVED

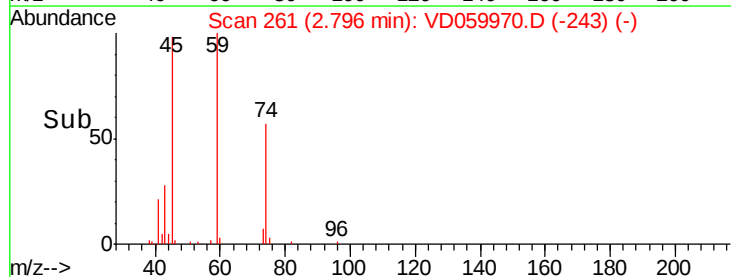
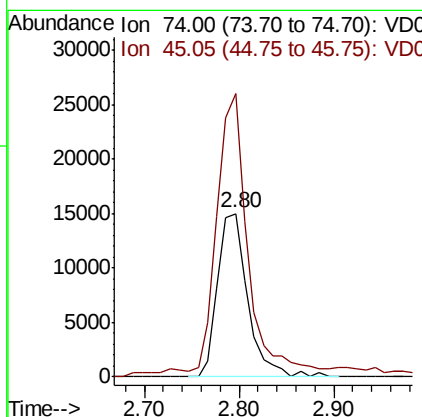
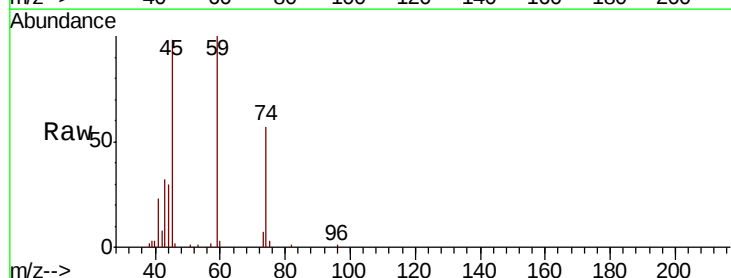
apatel
 9/6/2018 2:16:51 PM

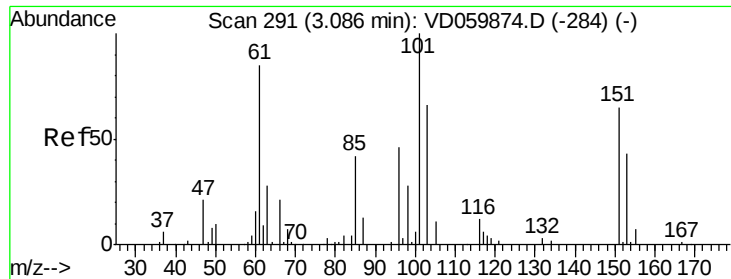


#8

Diethyl Ether
 Concen: 17.38 ug/l
 RT: 2.80 min Scan# 261
 Delta R.T. -0.02 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	33167		
45	172.9	85.7	257.1	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.66 ug/l

RT: 3.04 min Scan# 286

Delta R.T. -0.04 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

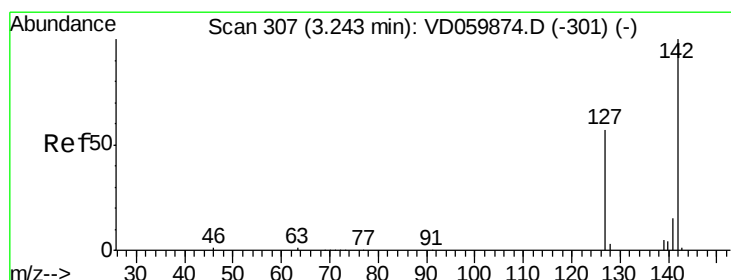
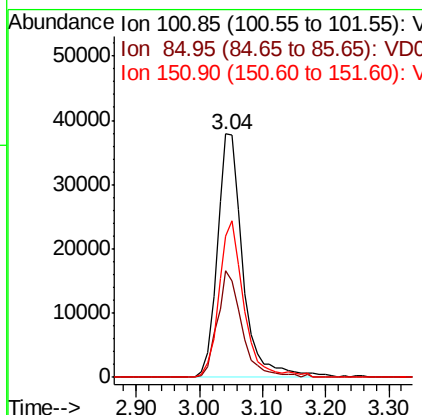
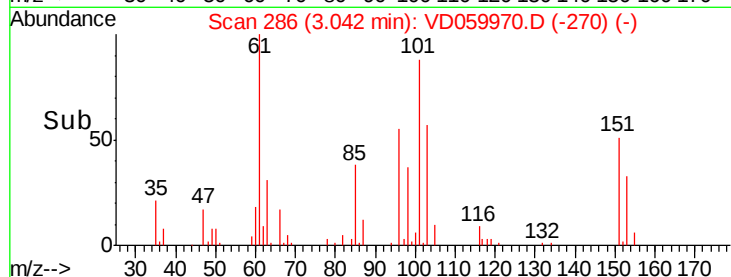
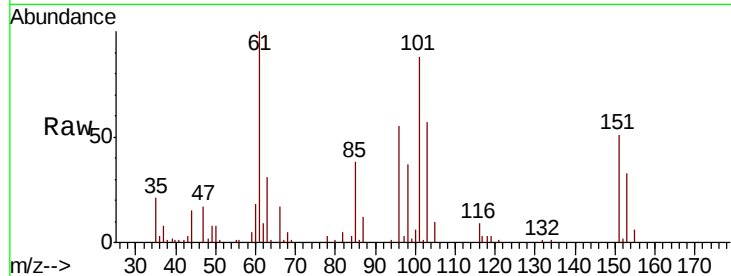
ClientSampleId :

VD0905SBS01

Tot Ion:	101	Resp:	107609
Ion Ratio	Lower	Upper	
101	100		
85	43.6	33.6	50.4
151	57.9	52.0	78.0

Manual Integrations
APPROVED

apatel
9/6/2018 2:16:51 PM



#10

Methyl Iodide

Concen: 15.76 ug/l

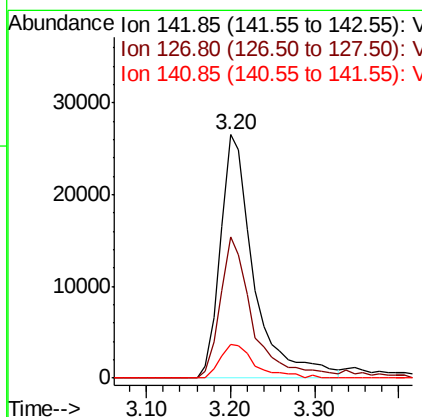
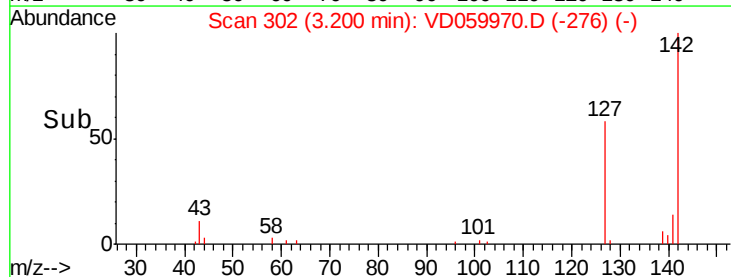
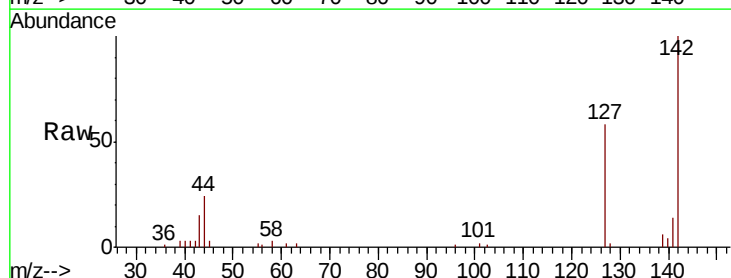
RT: 3.20 min Scan# 302

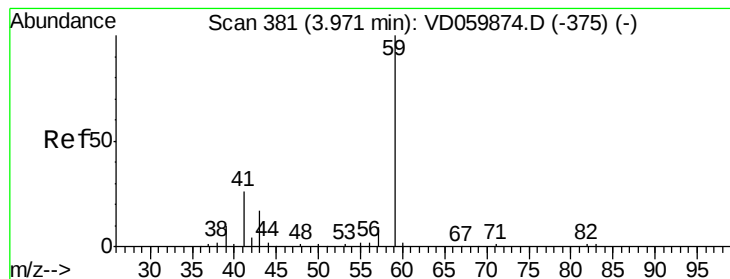
Delta R.T. -0.04 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Tgt Ion:	142	Resp:	73284
Ion Ratio	Lower	Upper	
142	100		
127	57.8	45.8	68.6
141	13.9	11.6	17.4





#11

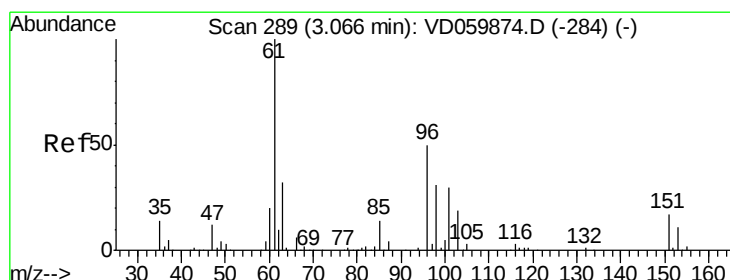
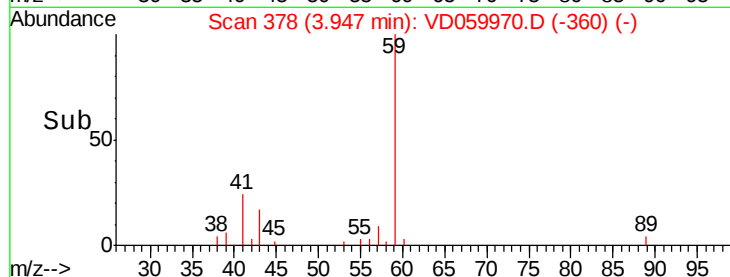
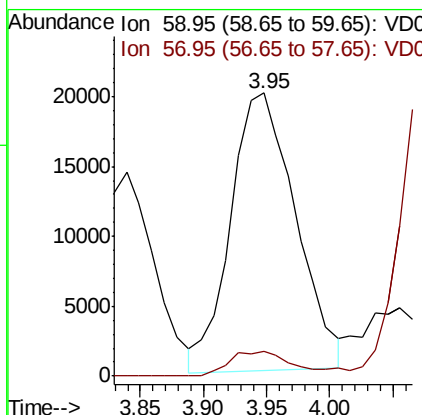
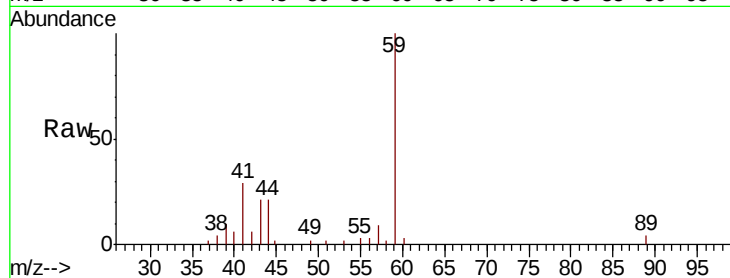
Tert butyl alcohol
 Concen: 95.44 ug/l
 RT: 3.95 min Scan# 378
 Delta R.T. -0.02 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0905SBSD01

Tot Ion	Ion	Ratio	Lower	Upper
59	59	100		
57	57	8.6	7.4	11.0

Manual Integrations
 APPROVED

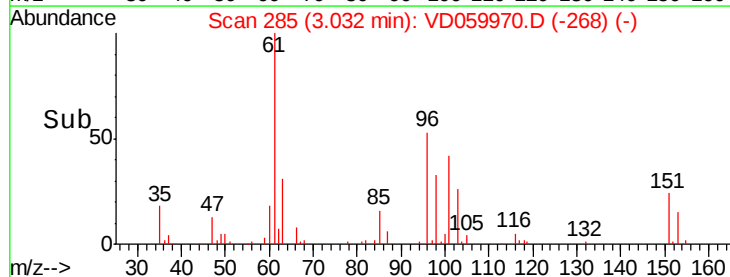
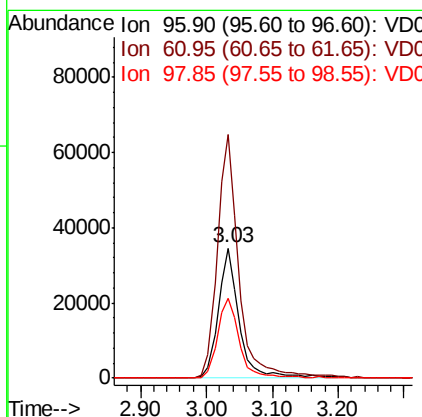
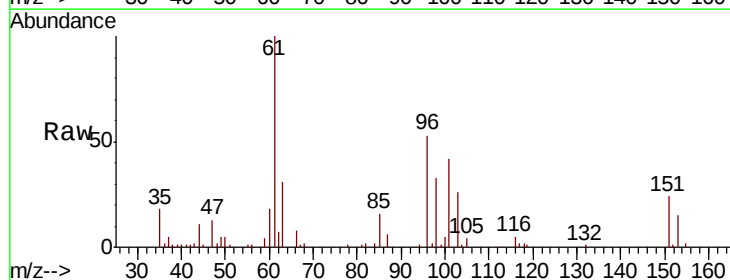
apatel
 9/6/2018 2:16:51 PM

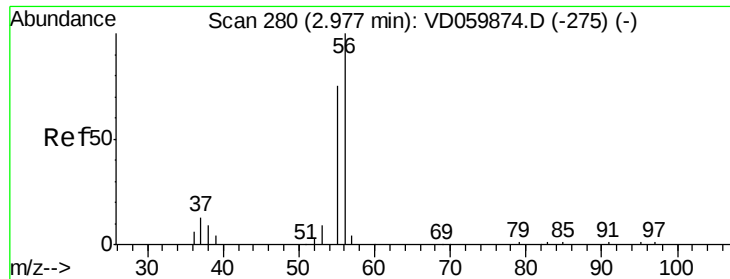


#12

1,1-Dichloroethene
 Concen: 18.70 ug/l
 RT: 3.03 min Scan# 285
 Delta R.T. -0.03 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Tgt Ion	Ion	Ratio	Lower	Upper
96	96	100		
61	61	187.5	158.8	238.2
98	98	61.0	48.7	73.1





#13

Acrolein

Concen: 51.84 ug/l

RT: 2.95 min Scan# 277

Delta R.T. -0.02 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

ClientSampleId :

VD0905SBSD01

Tot Ion: 56 Resp: 16744

Ion Ratio Lower Upper

56 100

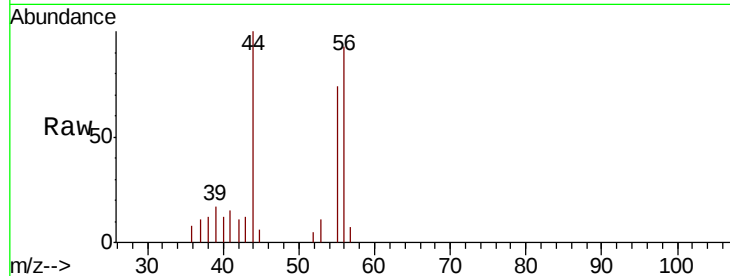
55 79.2 61.9 92.9

Manual Integrations

APPROVED

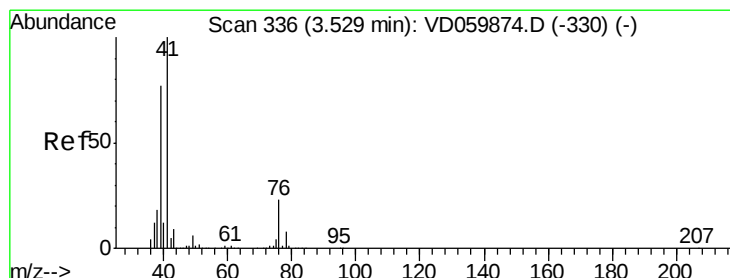
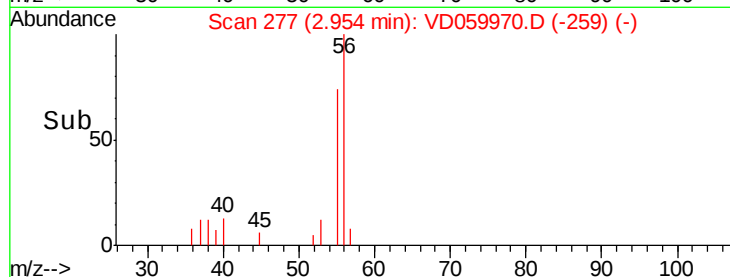
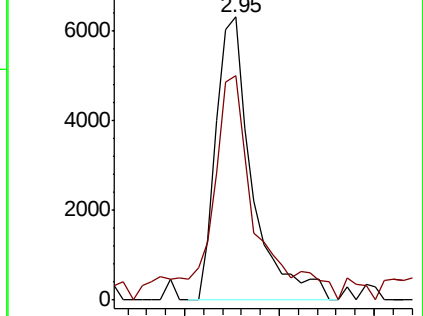
apatel

9/6/2018 2:16:51 PM



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 18.39 ug/l

RT: 3.49 min Scan# 332

Delta R.T. -0.03 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

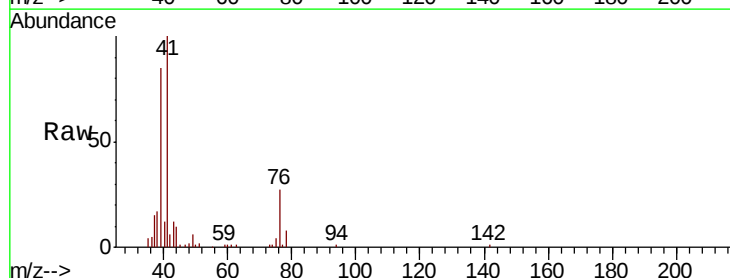
Tgt Ion: 41 Resp: 168718

Ion Ratio Lower Upper

41 100

39 85.1 61.8 92.6

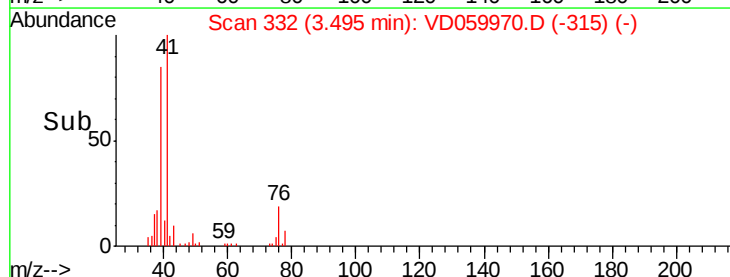
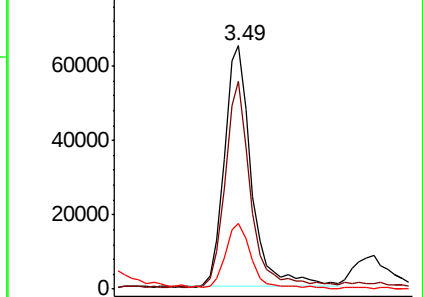
76 26.9 19.4 29.2

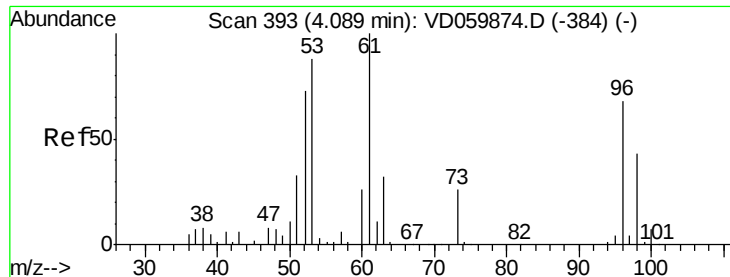


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 100.64 ug/l

RT: 4.05 min Scan# 388

Delta R.T. -0.04 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

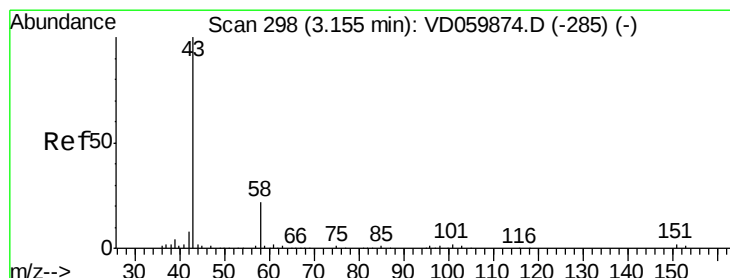
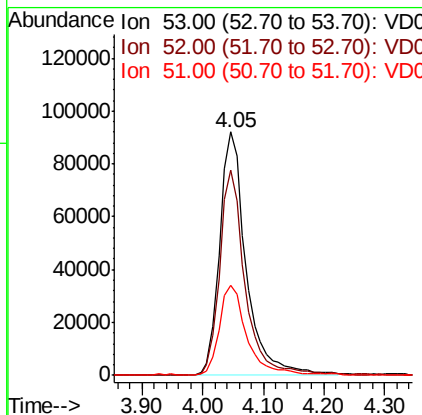
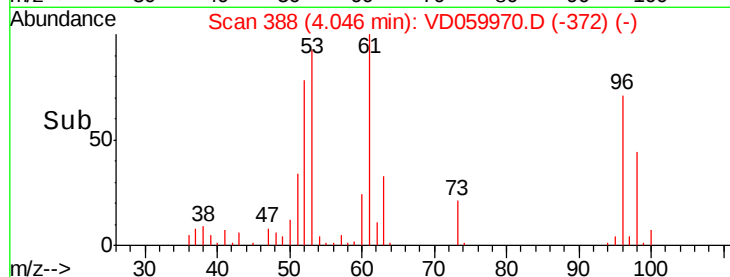
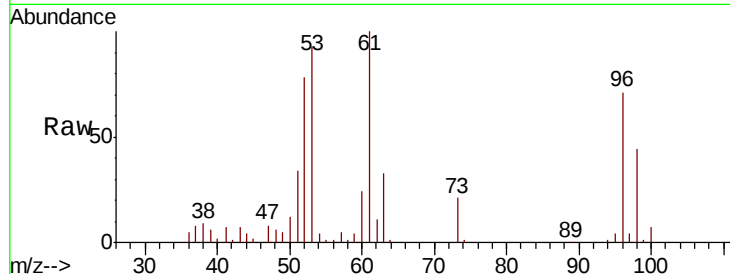
ClientSampleId :

VD0905SBSD01

Tot Ion:	53	Resp:	280660
Ion Ratio	Lower	Upper	
53	100		
52	84.4	66.9	100.3
51	37.2	30.3	45.5

Manual Integrations
APPROVED

apatel
9/6/2018 2:16:51 PM



#16

Acetone

Concen: 84.15 ug/l

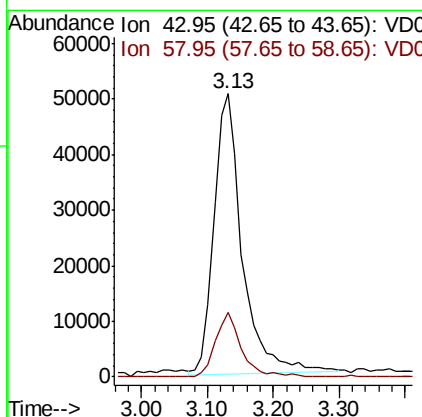
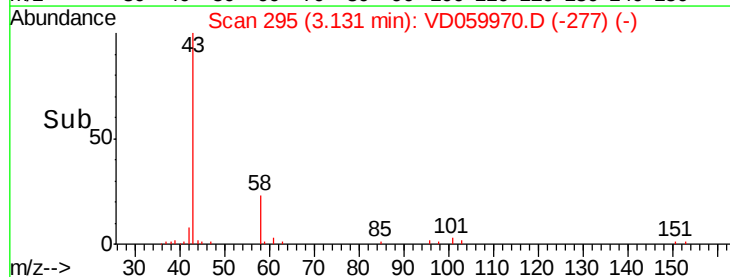
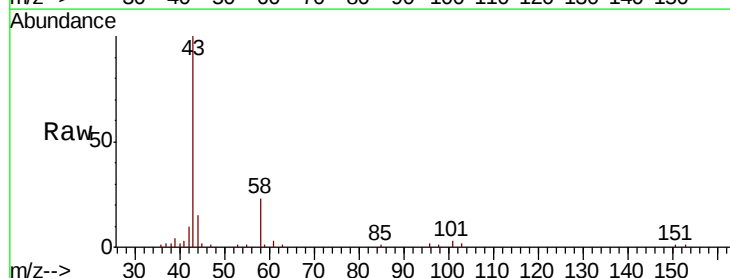
RT: 3.13 min Scan# 295

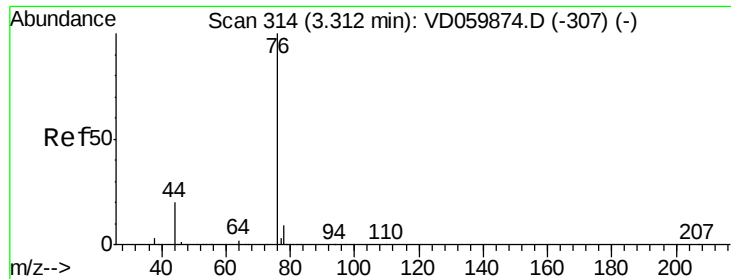
Delta R.T. -0.02 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Tgt Ion:	43	Resp:	149637
Ion Ratio	Lower	Upper	
43	100		
58	22.6	17.6	26.4





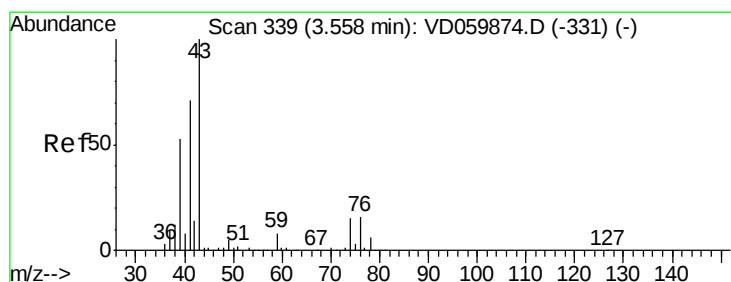
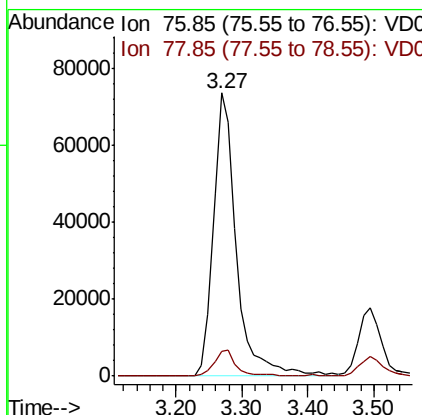
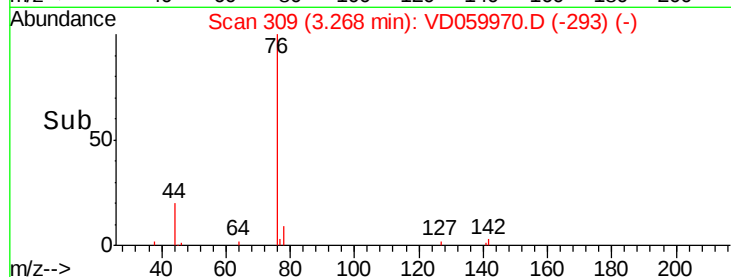
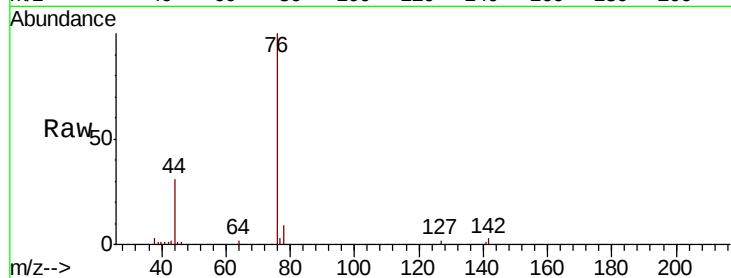
#17
Carbon Disulfide
Concen: 14.07 ug/l
RT: 3.27 min Scan# 309
Delta R.T. -0.04 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Instrument :
MSVOA_D
ClientSampleId :
VD0905SBSD01

Tot Ion: 76 Resp: 177073
Ion Ratio Lower Upper
76 100
78 8.8 7.4 11.2

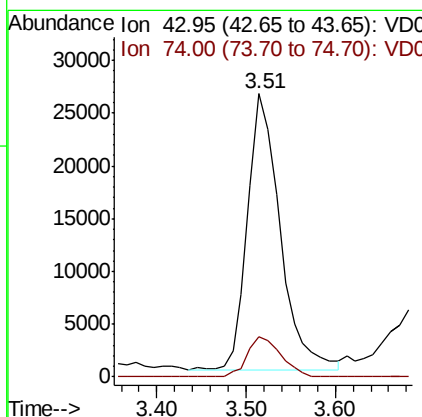
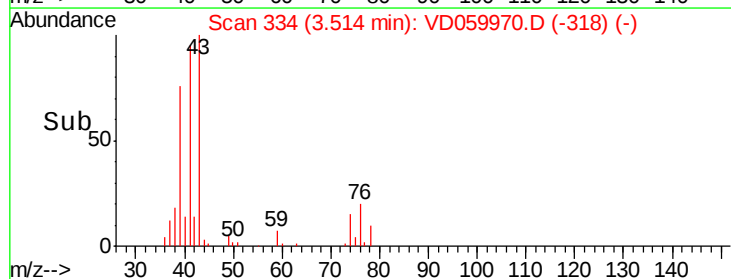
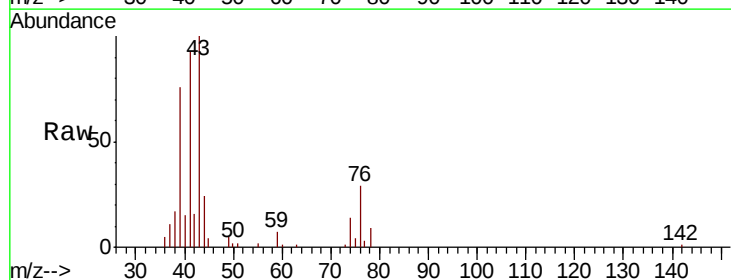
Manual Integrations
APPROVED

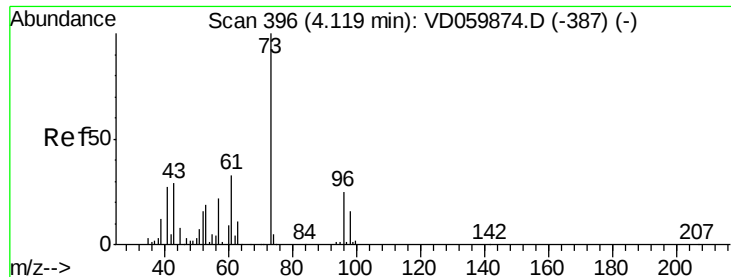
apatel
9/6/2018 2:16:51 PM



#18
Methyl Acetate
Concen: 18.09 ug/l
RT: 3.51 min Scan# 334
Delta R.T. -0.04 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Tgt Ion: 43 Resp: 67164
Ion Ratio Lower Upper
43 100
74 14.2 11.2 16.8





#19

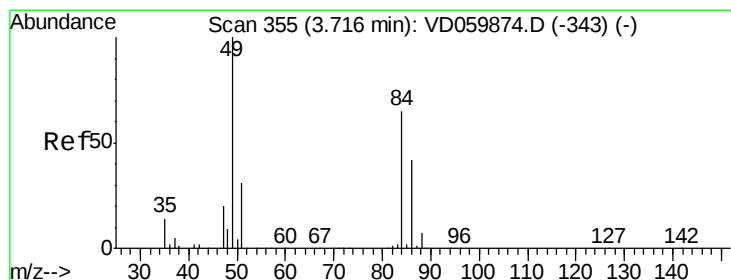
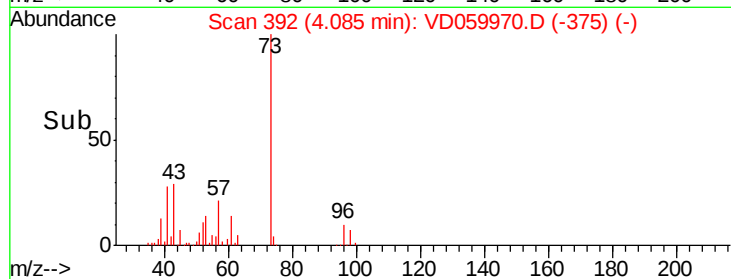
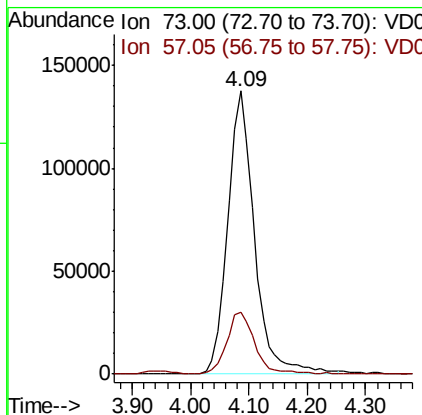
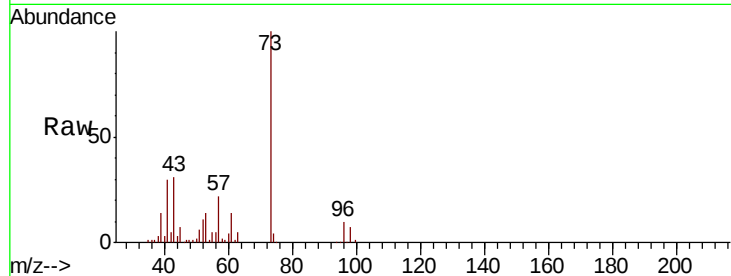
Methyl tert-butyl Ether
 Concen: 19.14 ug/l
 RT: 4.09 min Scan# 392
 Delta R.T. -0.03 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0905SBSD01

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.9	26.9

Manual Integrations
 APPROVED

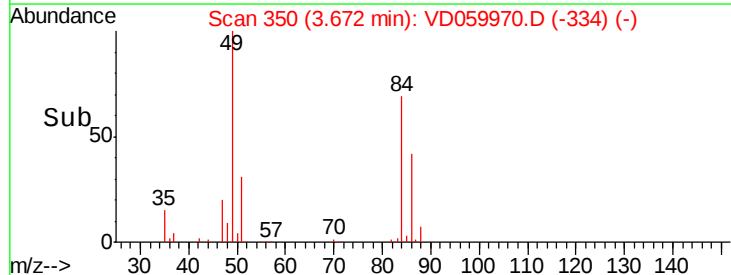
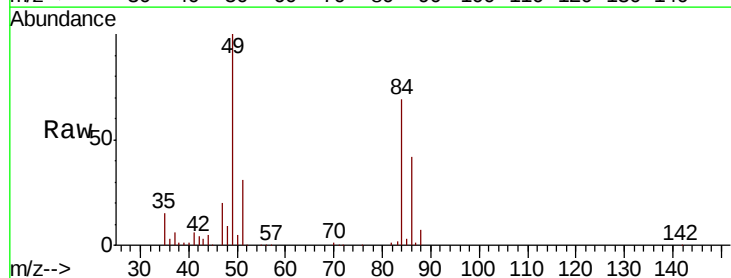
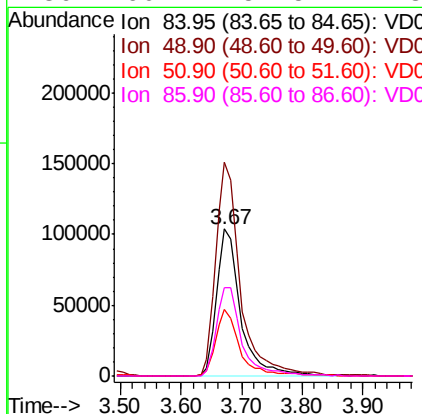
apatel
 9/6/2018 2:16:51 PM

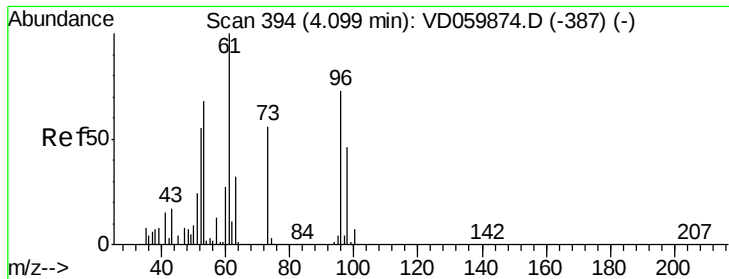


#20

Methylene Chloride
 Concen: 22.19 ug/l
 RT: 3.67 min Scan# 350
 Delta R.T. -0.04 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Lower	Upper
84	100		
49	145.7	122.6	183.8
51	45.8	38.4	57.6
86	60.7	51.5	77.3





#21

trans-1,2-Dichloroethene

Concen: 18.42 ug/l

RT: 4.06 min Scan# 389

Delta R.T. -0.04 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

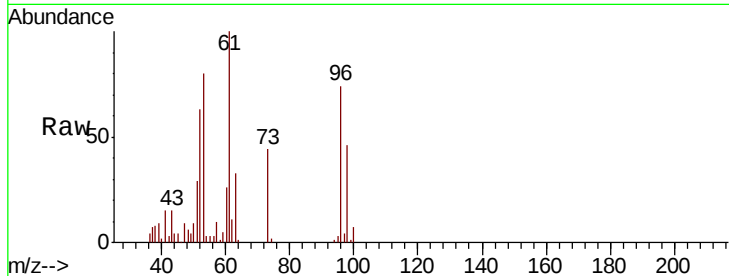
ClientSampleID :

VD0905SBSD01

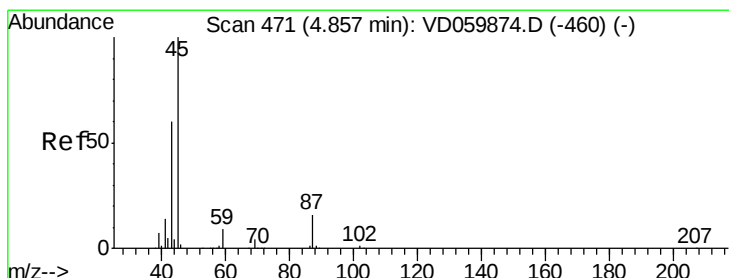
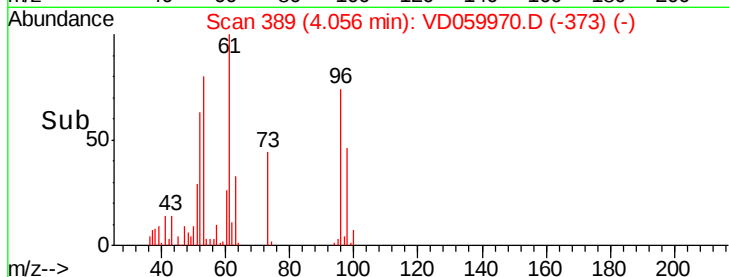
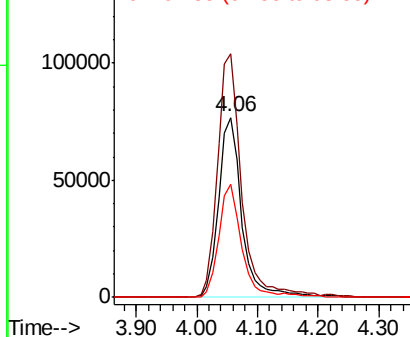
Tot Ion:	96	Resp:	205866
Ion	Ratio	Lower	Upper
96	100		
61	135.5	110.2	165.4
98	62.6	50.9	76.3

Manual Integrations
APPROVED

apatel
9/6/2018 2:16:51 PM



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



#22

Diisopropyl ether

Concen: 19.70 ug/l

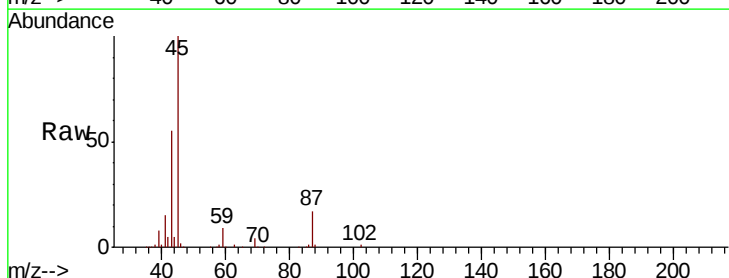
RT: 4.82 min Scan# 467

Delta R.T. -0.03 min

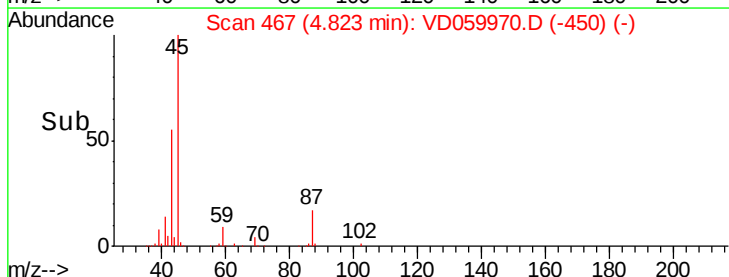
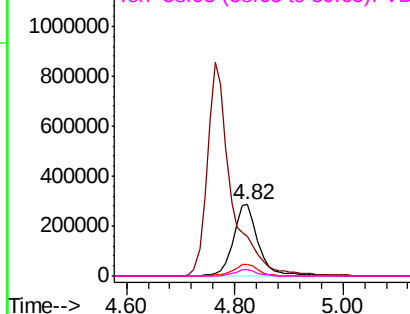
Lab File: VD059970.D

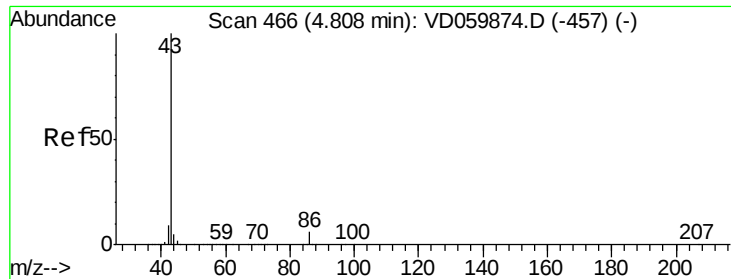
Acq: 5 Sep 2018 15:39

Tgt Ion:	45	Resp:	921787
Ion	Ratio	Lower	Upper
45	100		
43	55.3	48.6	72.8
87	16.7	13.3	19.9
59	8.9	7.1	10.7



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





#23

Vinyl Acetate

Concen: 101.05 ug/l

RT: 4.76 min Scan# 461

Delta R.T. -0.04 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

ClientSampleID :

VD0905SBSD01

Tot Ion: 43 Resp: 2643164

Ion Ratio Lower Upper

43 100

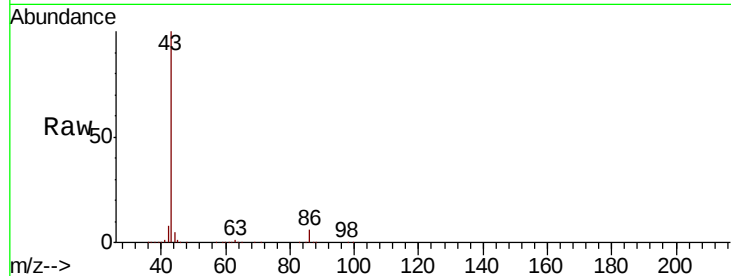
86 6.2 5.0 7.6

Manual Integrations

APPROVED

apatel

9/6/2018 2:16:51 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

1000000

800000

600000

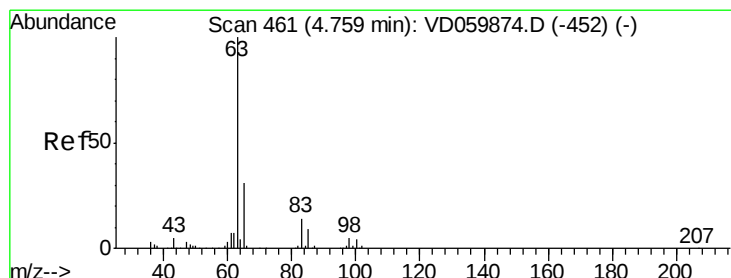
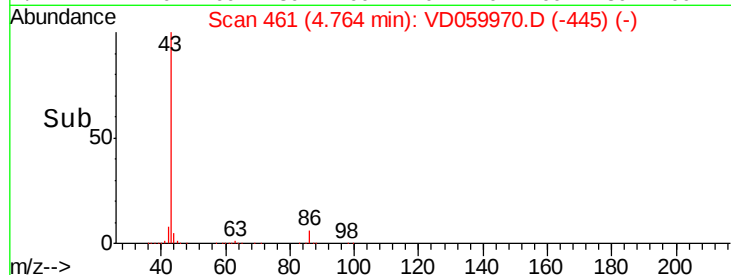
400000

200000

0

4.60 4.80 5.00

Time-->



#24

1,1-Dichloroethane

Concen: 19.74 ug/l

RT: 4.72 min Scan# 456

Delta R.T. -0.04 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

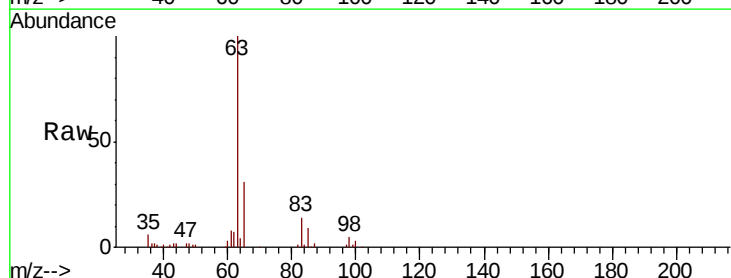
Tgt Ion: 63 Resp: 398958

Ion Ratio Lower Upper

63 100

98 5.2 2.7 8.1

100 3.2 1.8 5.3



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

150000

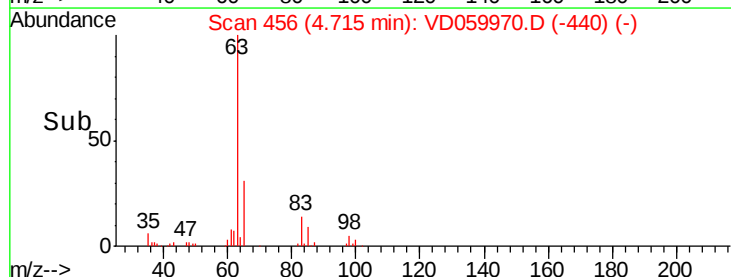
100000

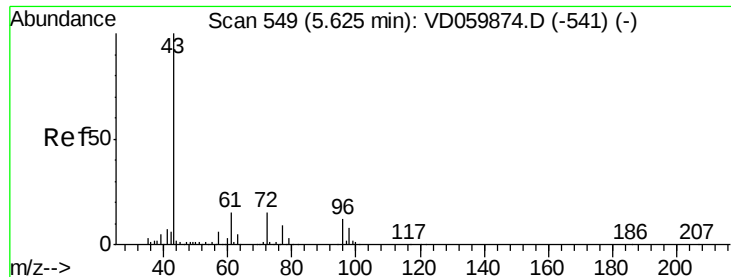
50000

0

4.60 4.70 4.80 4.90

Time-->





#25

2-Butanone

Concen: 87.85 ug/l

RT: 5.59 min Scan# 545

Delta R.T. -0.03 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

ClientSampleID :

VD0905SBS01

Tot Ion: 43 Resp: 462647

Ion Ratio Lower Upper

43 100

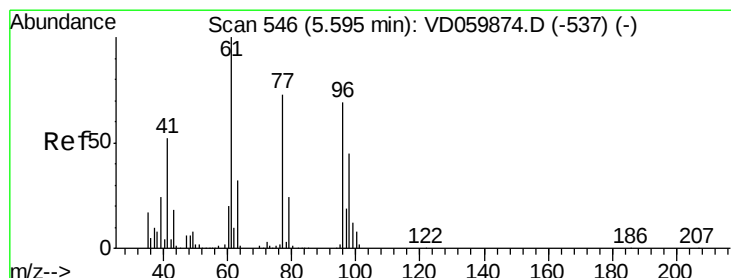
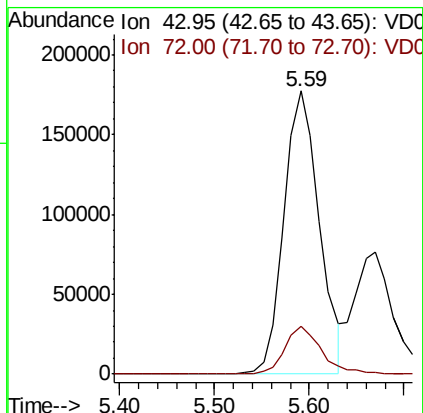
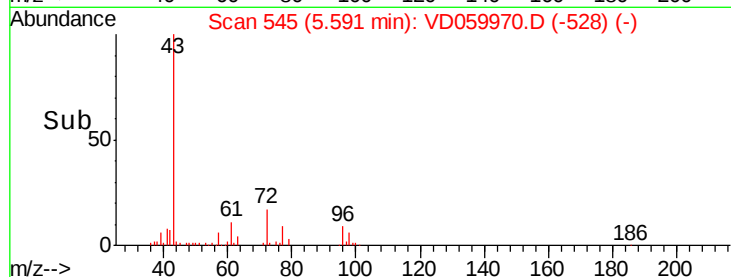
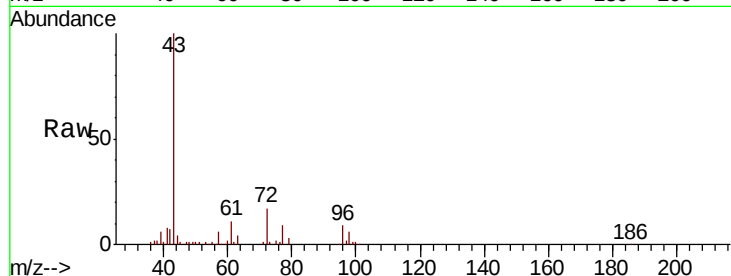
72 17.1 12.3 18.5

Manual Integrations

APPROVED

apatel

9/6/2018 2:16:51 PM



#26

2,2-Dichloropropane

Concen: 19.55 ug/l

RT: 5.55 min Scan# 541

Delta R.T. -0.04 min

Lab File: VD059970.D

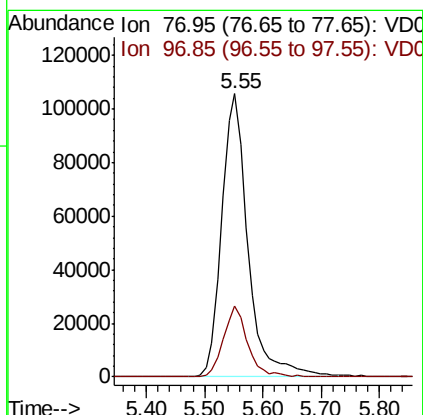
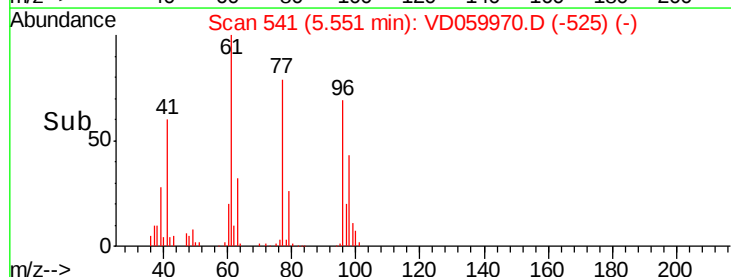
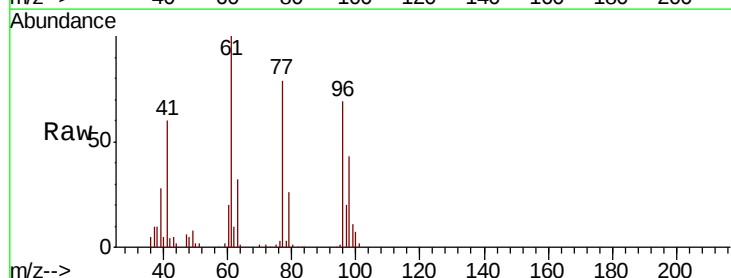
Acq: 5 Sep 2018 15:39

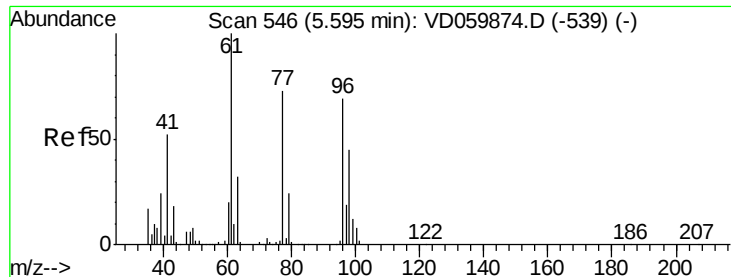
Tgt Ion: 77 Resp: 330378

Ion Ratio Lower Upper

77 100

97 25.2 13.0 38.9





#27

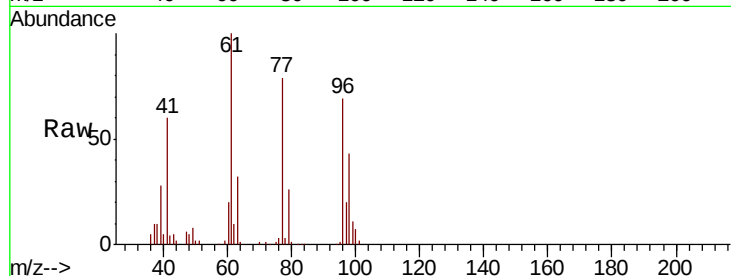
cis-1,2-Dichloroethene
Concen: 20.28 ug/l
RT: 5.55 min Scan# 541
Delta R.T. -0.04 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Instrument :
MSVOA_D
ClientSampleId :
VD0905SBS01

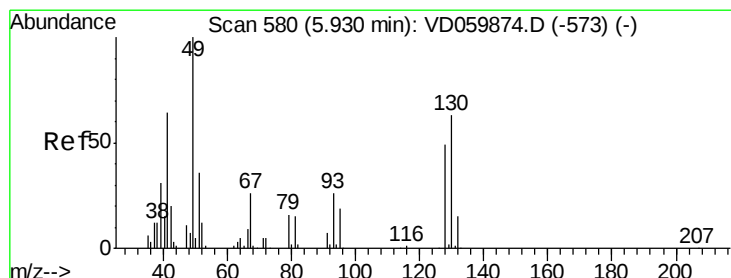
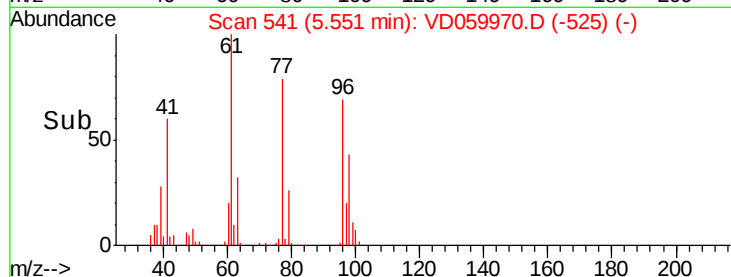
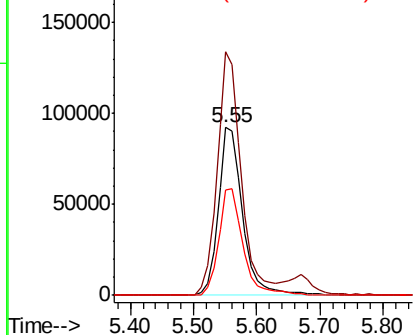
Tot Ion	Ratio	Resp	Lower	Upper
96	100	248102		
61	145.0	0.0	290.2	
98	62.8	0.0	130.4	

Manual Integrations
APPROVED

apatel
9/6/2018 2:16:51 PM



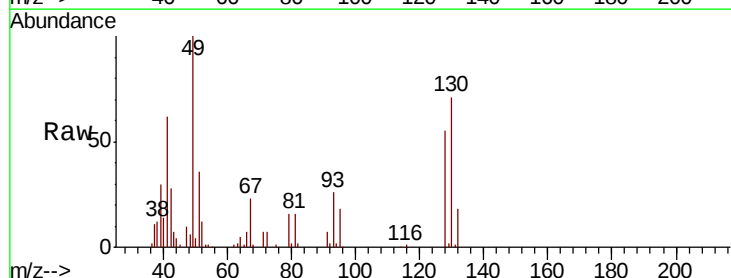
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



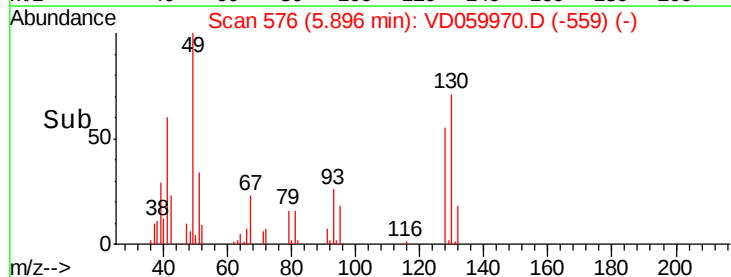
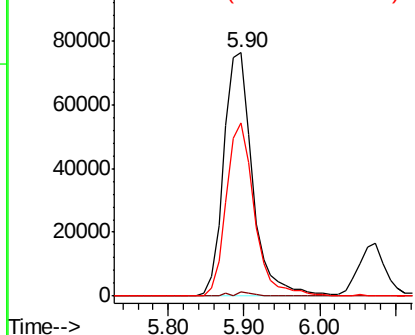
#28

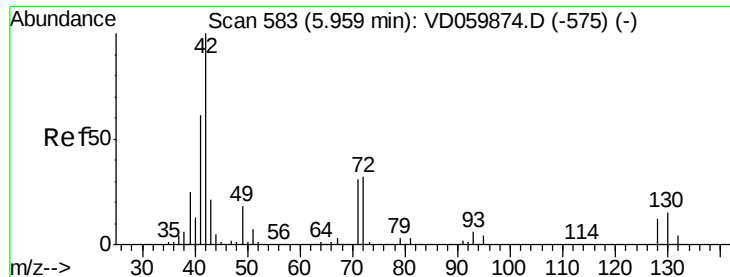
Bromochloromethane
Concen: 20.80 ug/l
RT: 5.90 min Scan# 576
Delta R.T. -0.03 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	201515		
129	1.7	0.0	3.2	
130	71.1	50.6	75.8	



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





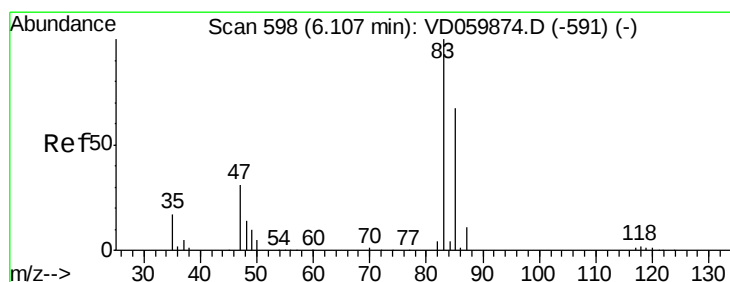
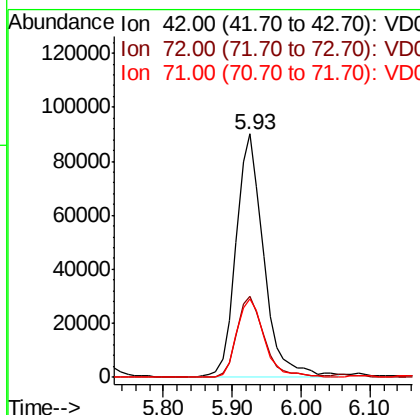
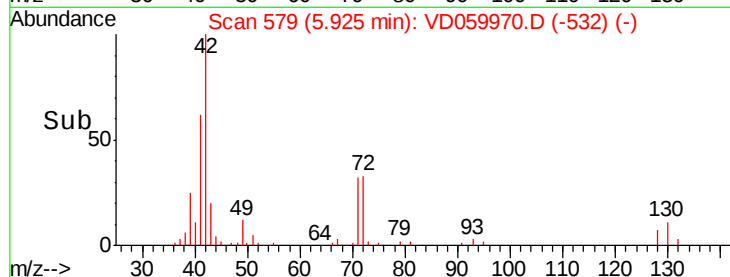
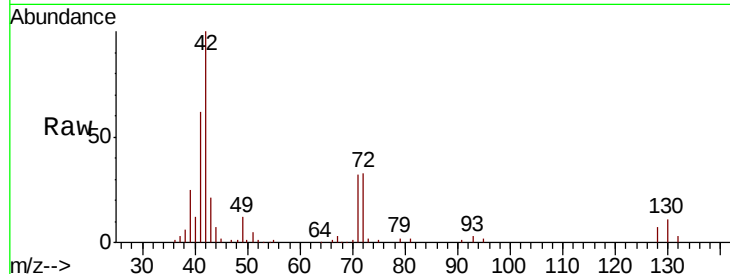
#29
Tetrahydrofuran
Concen: 100.42 ug/l
RT: 5.93 min Scan# 579
Delta R.T. -0.03 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Instrument :
MSVOA_D
ClientSampleId :
VD0905SBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	33.1	25.7	38.5
71	32.0	25.3	37.9

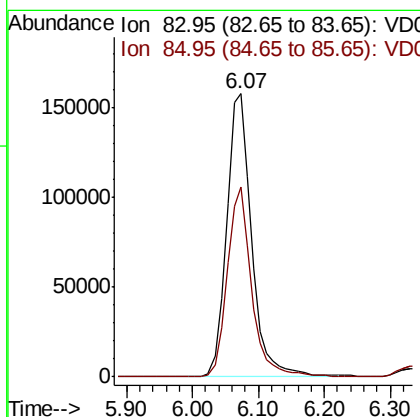
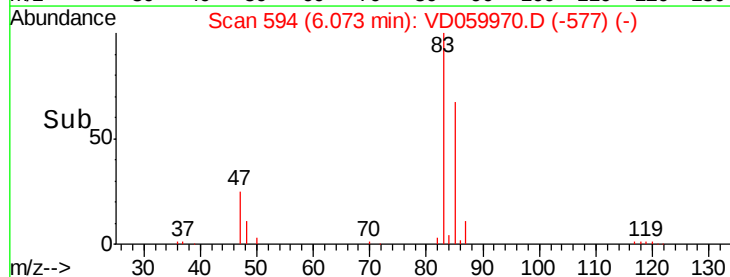
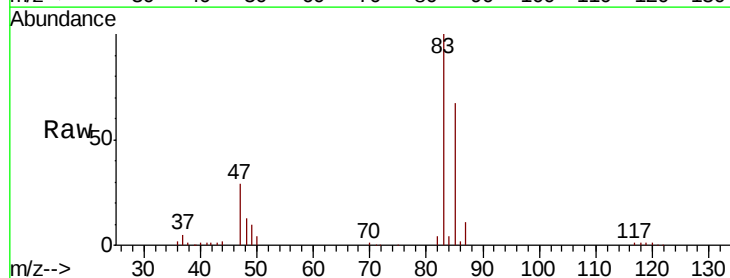
Manual Integrations
APPROVED

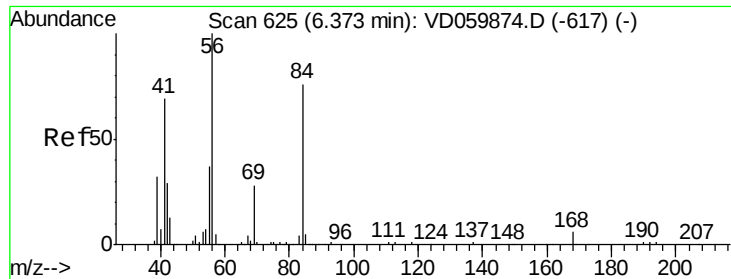
apatel
9/6/2018 2:16:51 PM



#30
Chloroform
Concen: 20.36 ug/l
RT: 6.07 min Scan# 594
Delta R.T. -0.03 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.2	53.5	80.3





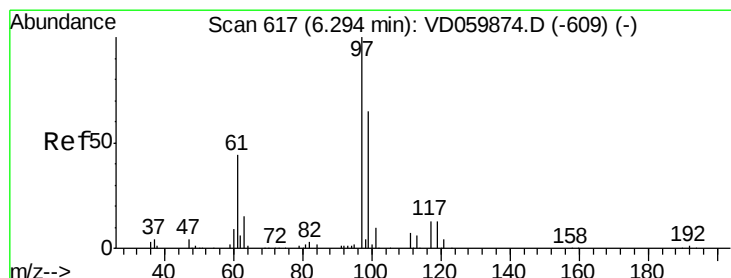
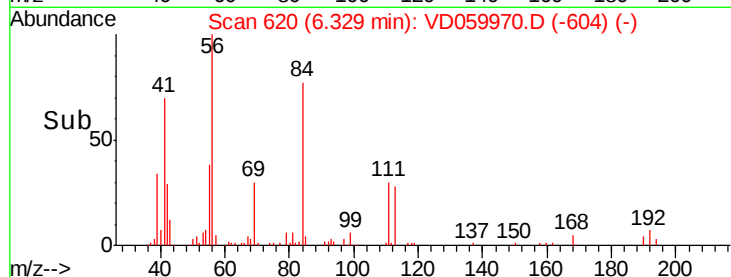
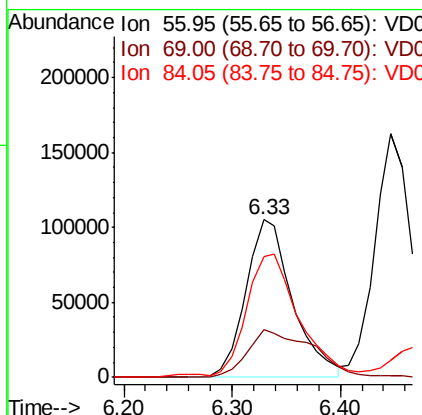
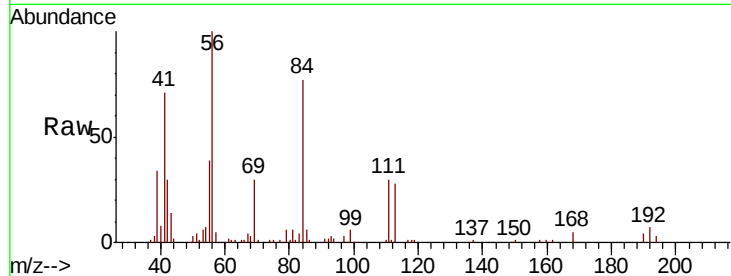
#31
Cyclohexane
Concen: 16.97 ug/l
RT: 6.33 min Scan# 620
Delta R.T. -0.04 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Instrument :
MSVOA_D
ClientSampleId :
VD0905SBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.1	22.4	33.6
84	76.7	62.1	93.1

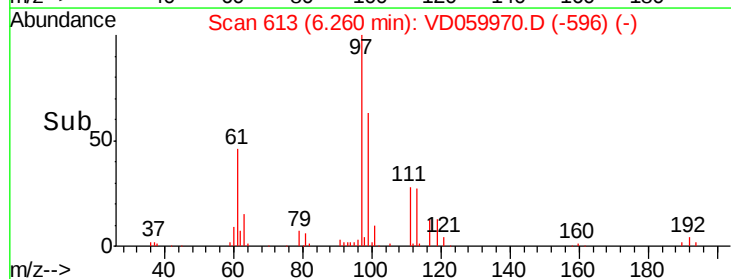
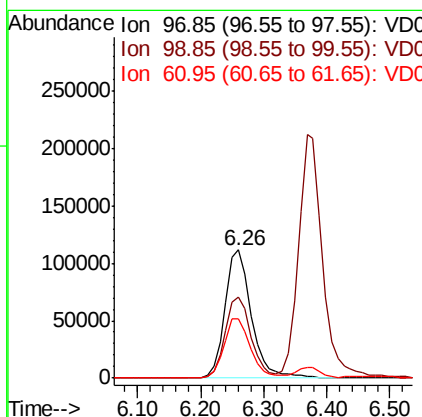
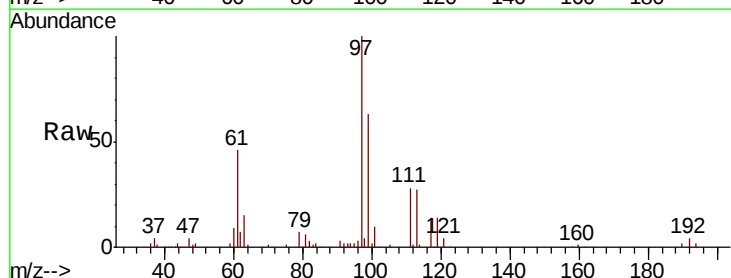
Manual Integrations
APPROVED

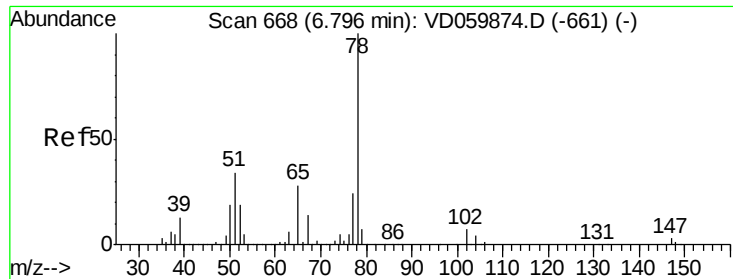
apatel
9/6/2018 2:16:51 PM



#32
1,1,1-Trichloroethane
Concen: 18.57 ug/l
RT: 6.26 min Scan# 613
Delta R.T. -0.03 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.7	77.5
61	46.1	35.4	53.2





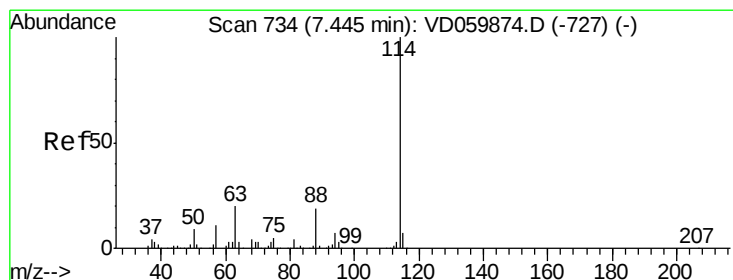
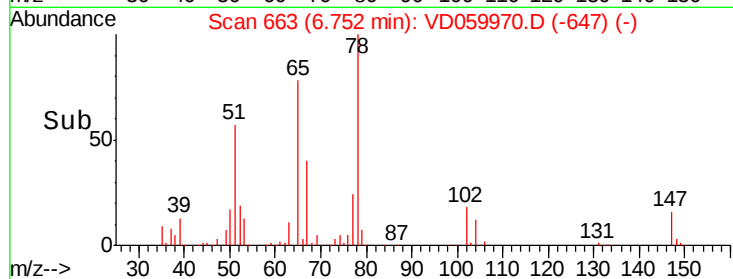
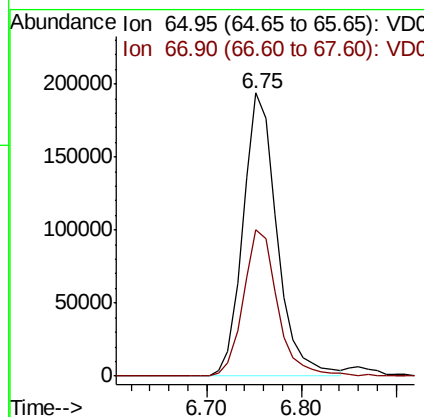
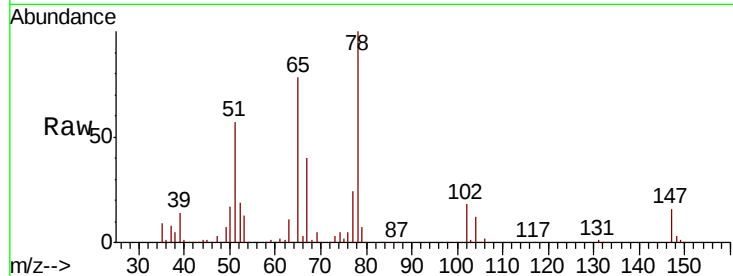
#33
 1,2-Dichloroethane-d4
 Concen: 18.57 ug/l
 RT: 6.75 min Scan# 663
 Delta R.T. -0.04 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0905SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	482118		
67	51.7	0.0	103.8	

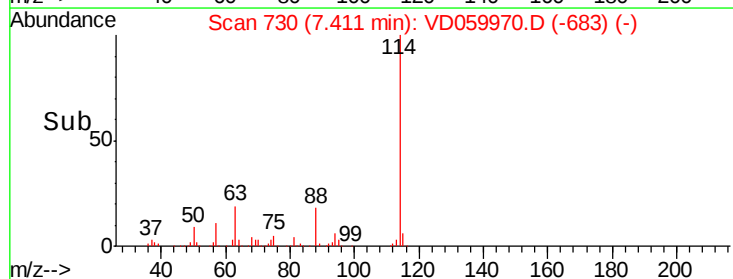
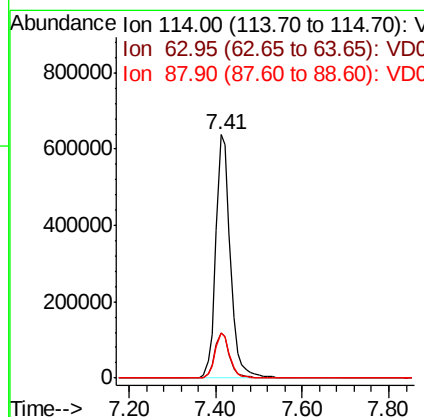
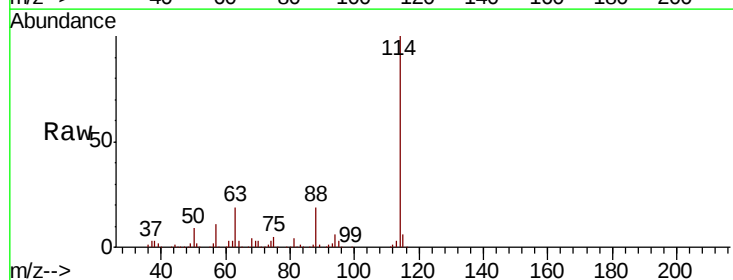
Manual Integrations
 APPROVED

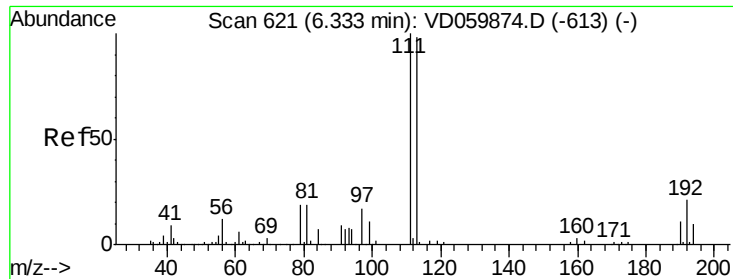
apatel
 9/6/2018 2:16:51 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.41 min Scan# 730
 Delta R.T. -0.03 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1494621		
63	18.7	0.0	39.4	
88	18.6	0.0	37.6	





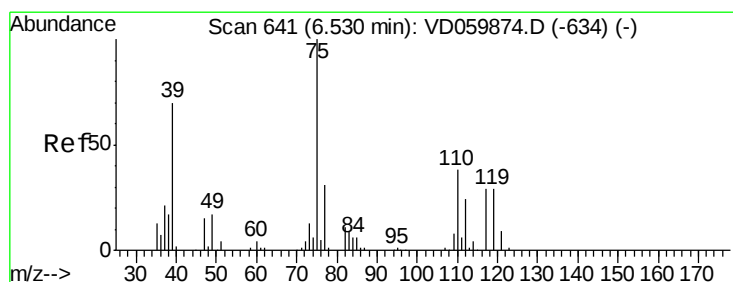
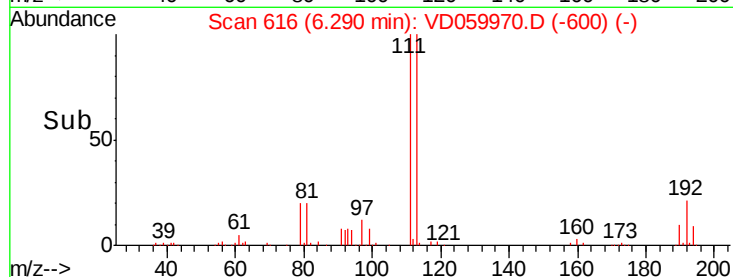
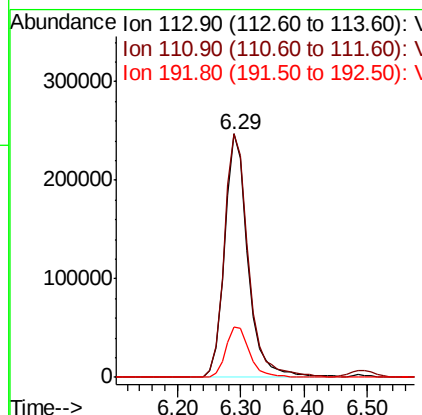
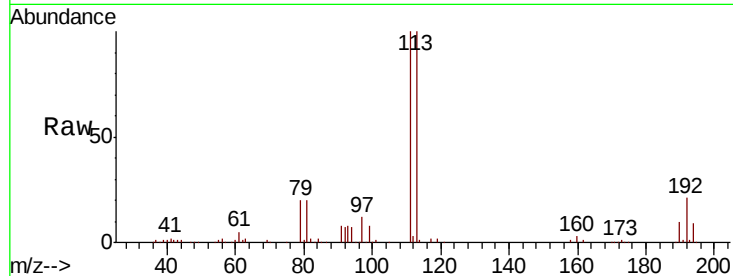
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.29 min Scan# 616
 Delta R.T. -0.04 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0905SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	633219		
111	100.1	81.4	122.2	
192	20.7	17.0	25.6	

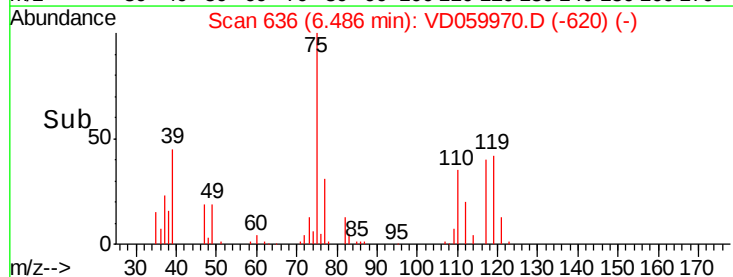
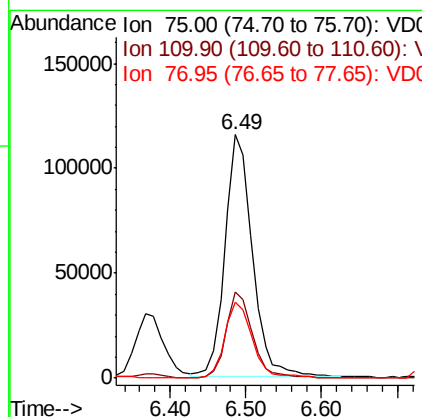
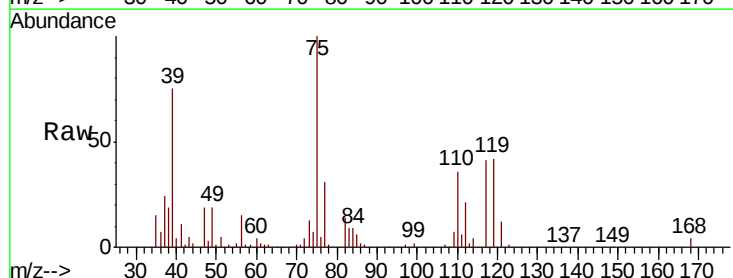
Manual Integrations
 APPROVED

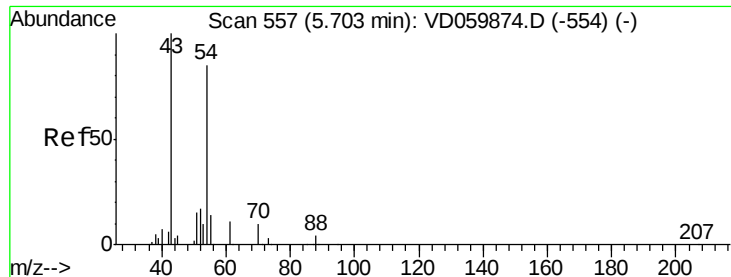
apatel
 9/6/2018 2:16:51 PM



#36
 1,1-Dichloropropene
 Concen: 21.31 ug/l
 RT: 6.49 min Scan# 636
 Delta R.T. -0.04 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	288668		
110	35.6	18.6	56.0	
77	31.3	25.1	37.7	





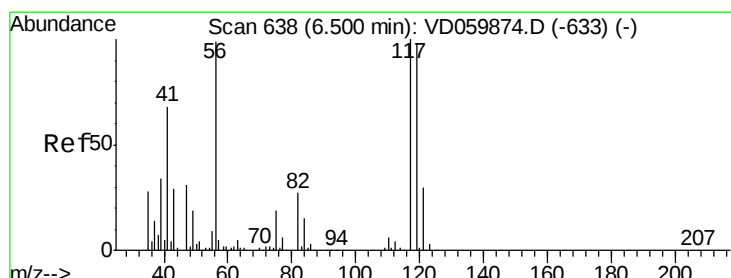
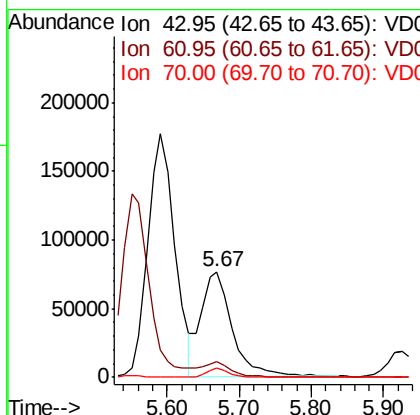
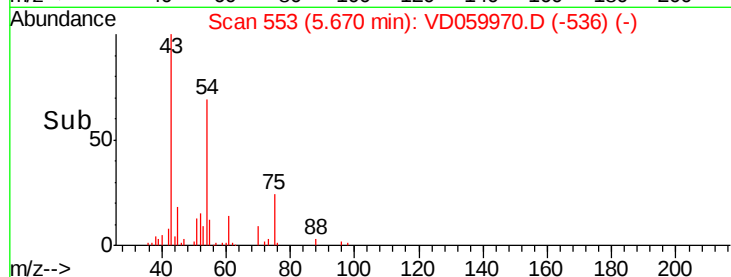
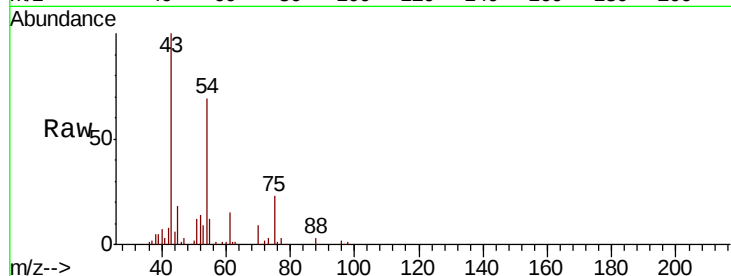
#37
Ethyl Acetate
Concen: 21.32 ug/l
RT: 5.67 min Scan# 553
Delta R.T. -0.03 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Instrument :
MSVOA_D
ClientSampleId :
VD0905SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.0	16.6
70	8.8	5.7	8.5

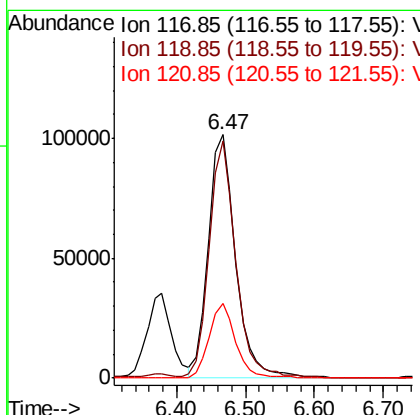
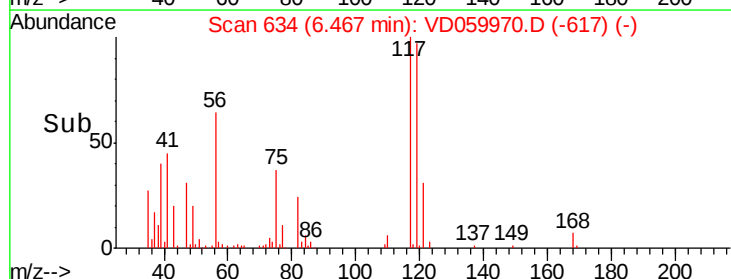
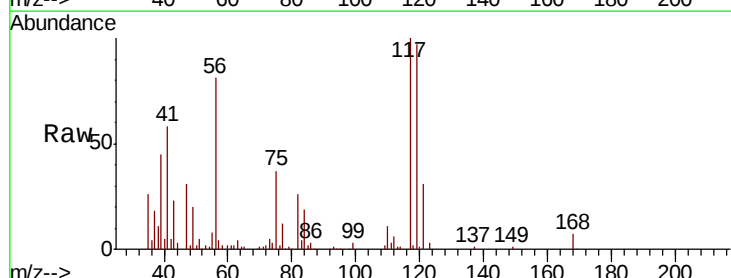
Manual Integrations
APPROVED

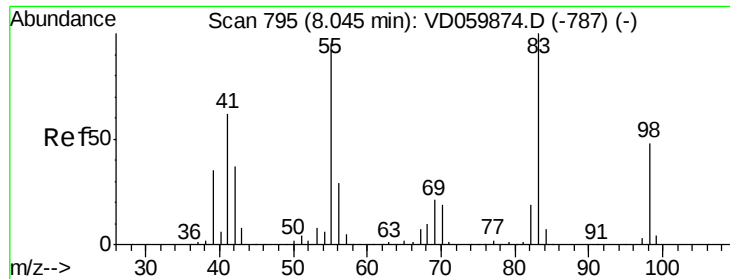
apatel
9/6/2018 2:16:51 PM



#38
Carbon Tetrachloride
Concen: 20.22 ug/l
RT: 6.47 min Scan# 634
Delta R.T. -0.03 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.2	77.2	115.8
121	30.8	24.0	36.0





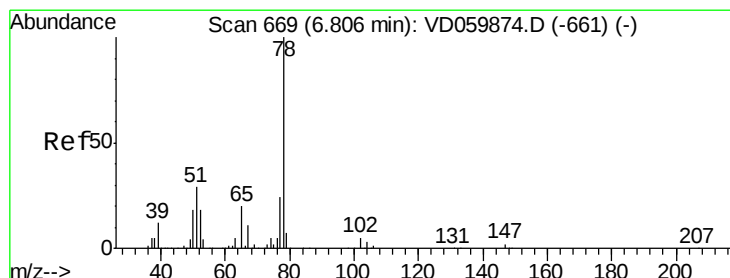
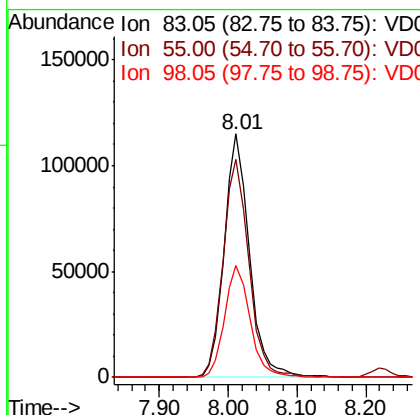
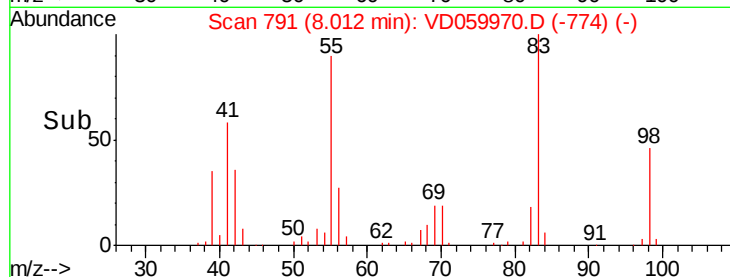
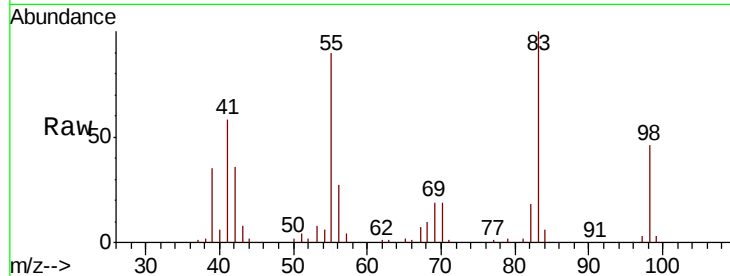
#39
Methvlcvclohexane
Concen: 19.90 ug/l
RT: 8.01 min Scan# 791
Delta R.T. -0.03 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Instrument :
MSVOA_D
ClientSampleId :
VD0905SBS01

Tot Ion	83	Resp	291326
Ion Ratio	Lower	Upper	
83	100		
55	89.7	75.8	113.6
98	45.8	38.3	57.5

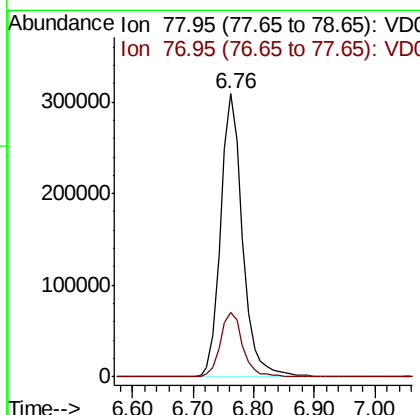
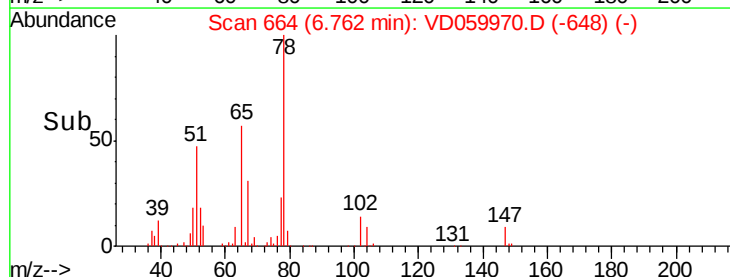
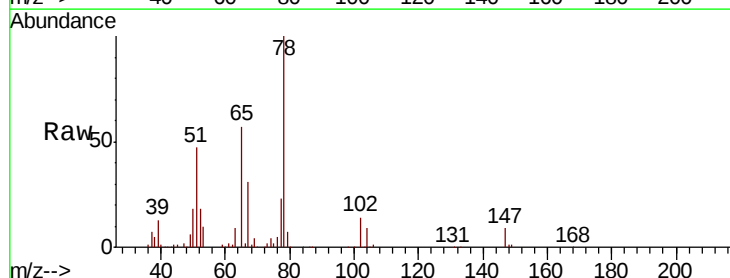
Manual Integrations
APPROVED

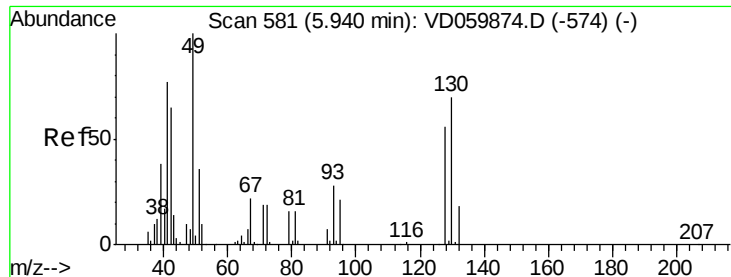
apatel
9/6/2018 2:16:51 PM



#40
Benzene
Concen: 22.10 ug/l
RT: 6.76 min Scan# 664
Delta R.T. -0.04 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Tgt Ion	78	Resp	778611
Ion Ratio	Lower	Upper	
78	100		
77	22.9	19.0	28.4





#41

Methacrylonitrile

Concen: 18.81 ug/l m

RT: 5.89 min Scan# 575

Delta R.T. -0.05 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

ClientSampleId :

VD0905SBS01

Tot Ion: 41 Resp: 99889

Ion Ratio Lower Upper

41 100

39 50.1 39.4 59.2

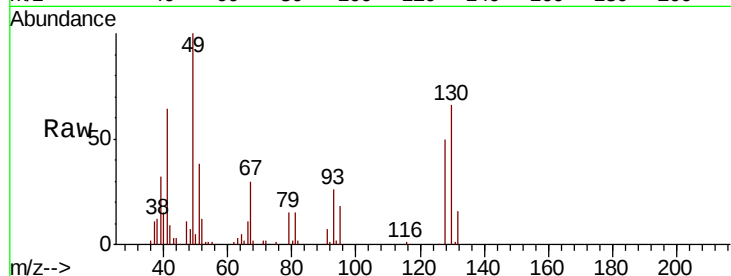
67 47.1 22.2 33.2#

52 19.2 10.1 15.1#

Manual Integrations
APPROVED

apatel

9/6/2018 2:16:51 PM

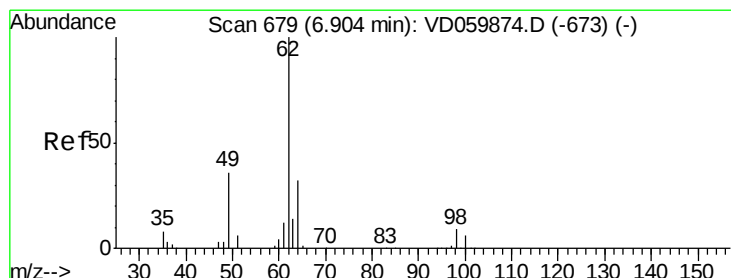
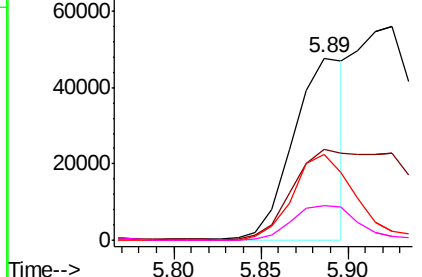
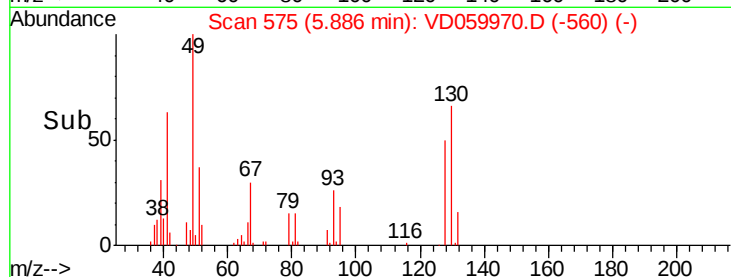


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 21.21 ug/l

RT: 6.86 min Scan# 674

Delta R.T. -0.04 min

Lab File: VD059970.D

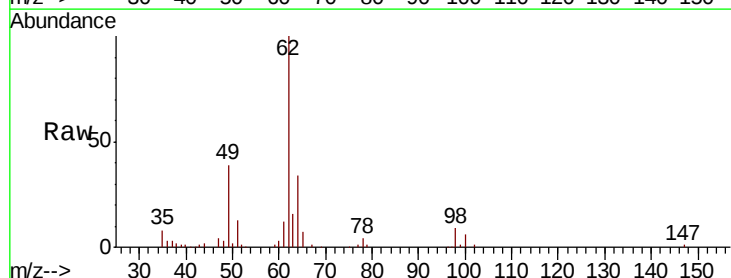
Acq: 5 Sep 2018 15:39

Tgt Ion: 62 Resp: 239930

Ion Ratio Lower Upper

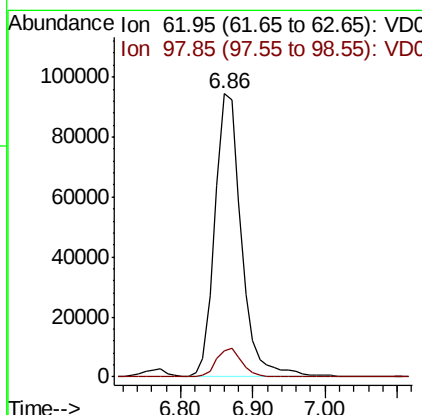
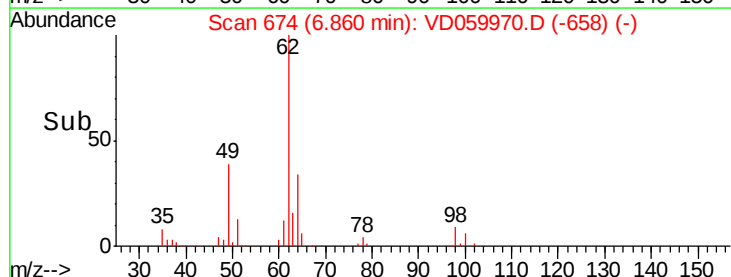
62 100

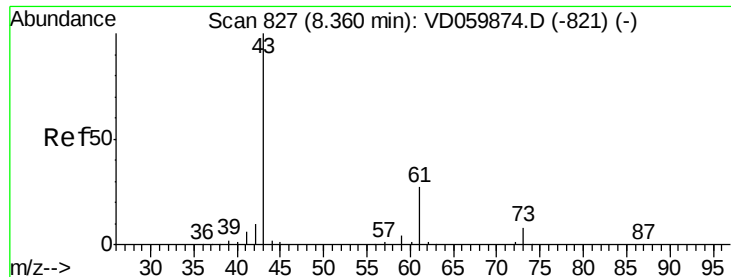
98 9.4 0.0 18.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

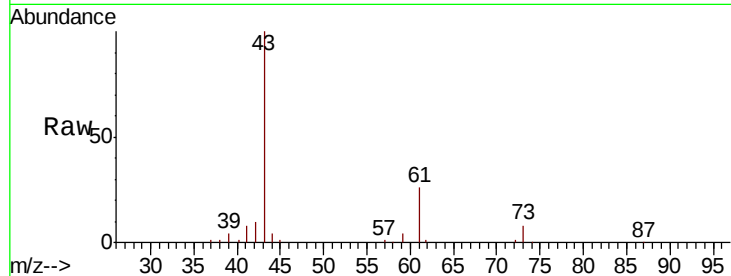
Isopropyl Acetate
 Concen: 21.00 ug/l
 RT: 8.33 min Scan# 823
 Delta R.T. -0.03 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0905SBSD01

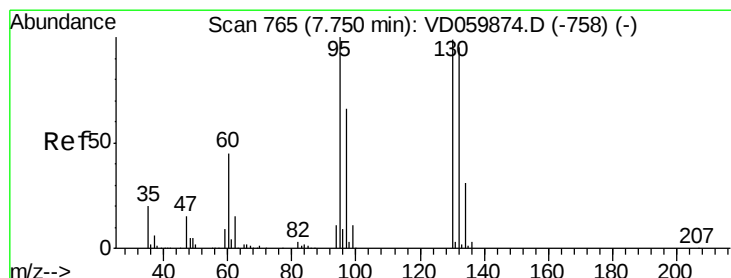
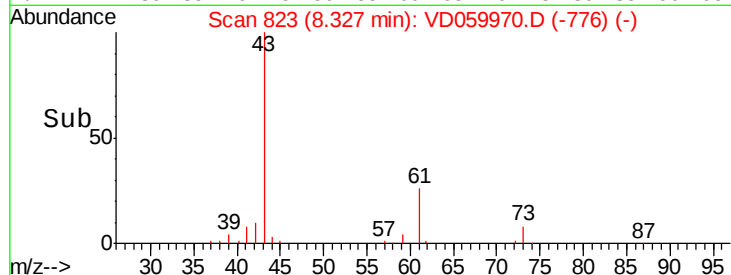
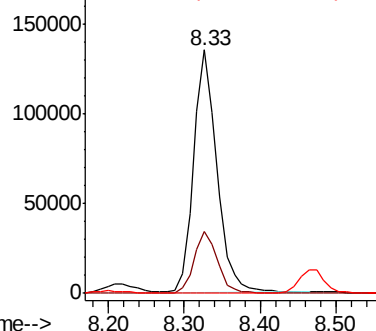
Tot Ion	Ratio	Lower	Upper
43	100		
61	25.5	21.4	32.2
87	0.3	0.2	0.4

Manual Integrations
 APPROVED

apatel
 9/6/2018 2:16:51 PM



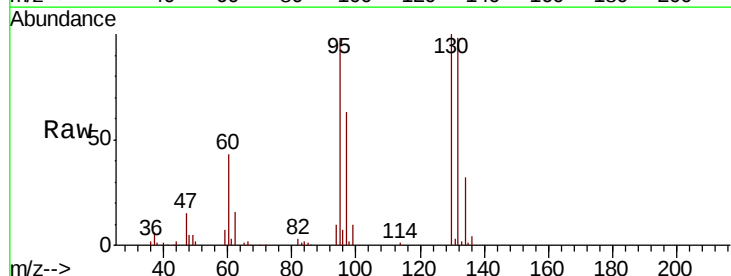
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



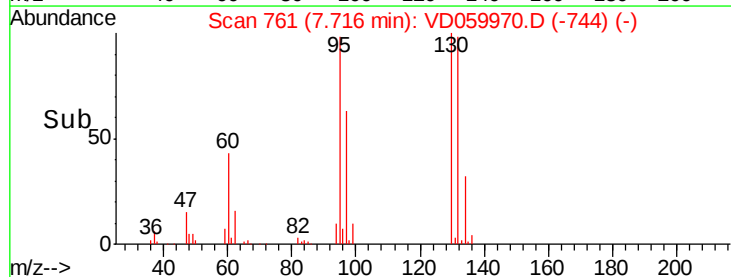
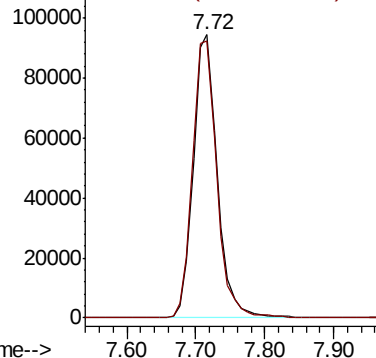
#44

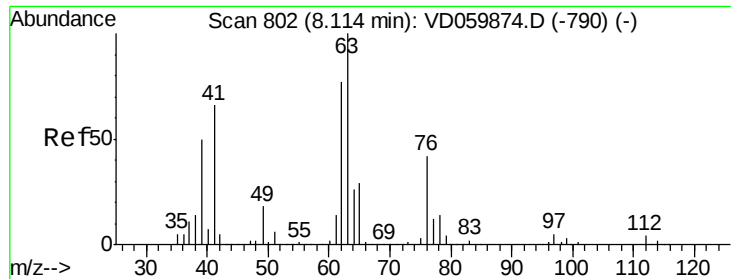
Trichloroethene
 Concen: 21.84 ug/l
 RT: 7.72 min Scan# 761
 Delta R.T. -0.03 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	202.0



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





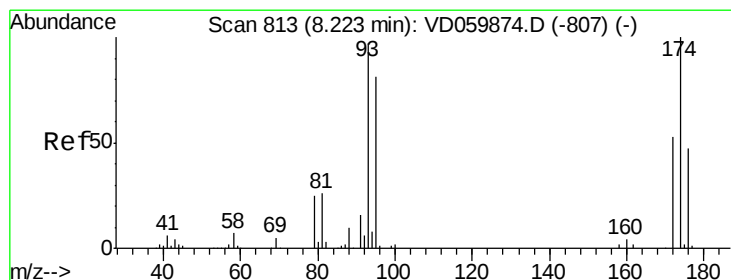
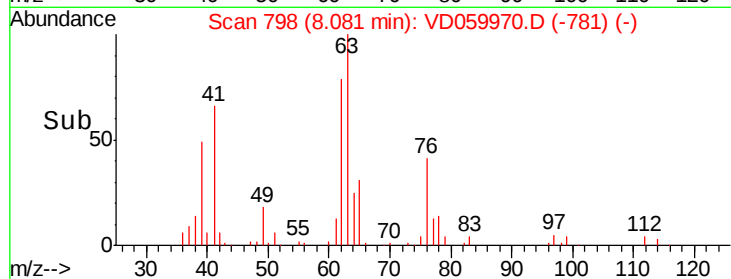
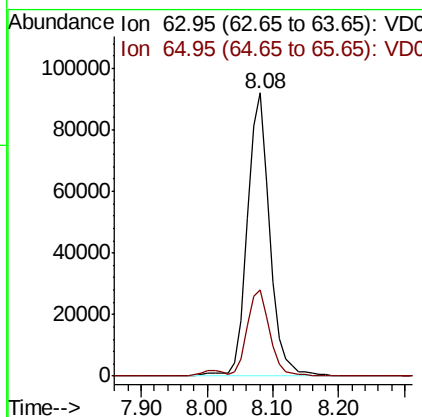
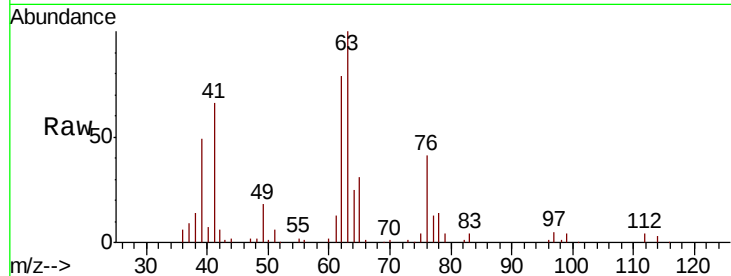
#45
 1,2-Dichloropropane
 Concen: 22.28 ug/l
 RT: 8.08 min Scan# 798
 Delta R.T. -0.03 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0905SBSD01

Tot Ion: 63 Resp: 219357
 Ion Ratio Lower Upper
 63 100
 65 30.6 23.5 35.3

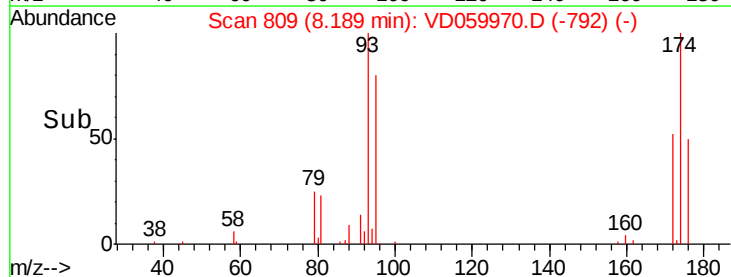
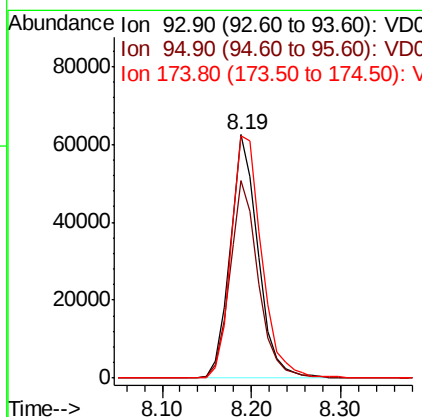
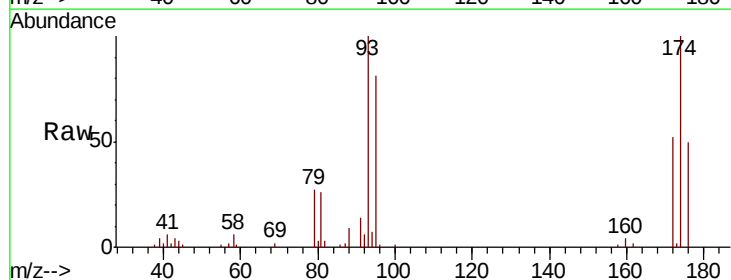
Manual Integrations
 APPROVED

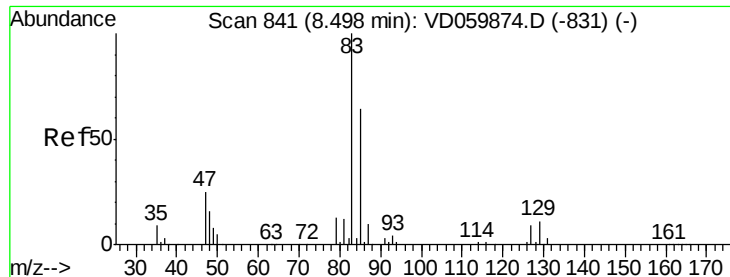
apatel
 9/6/2018 2:16:51 PM



#46
 Dibromomethane
 Concen: 21.64 ug/l
 RT: 8.19 min Scan# 809
 Delta R.T. -0.03 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Tgt Ion: 93 Resp: 137047
 Ion Ratio Lower Upper
 93 100
 95 80.9 66.6 100.0
 174 99.7 82.4 123.6





#47

Bromodichloromethane

Concen: 21.63 ug/l

RT: 8.46 min Scan# 837

Delta R.T. -0.03 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

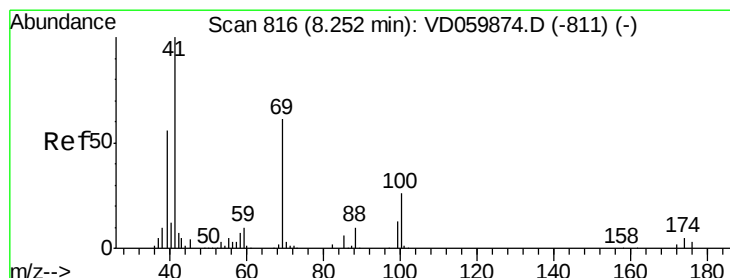
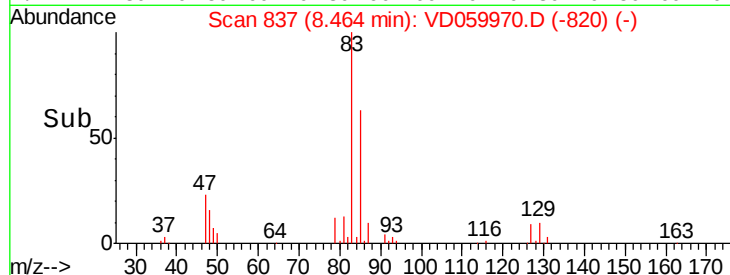
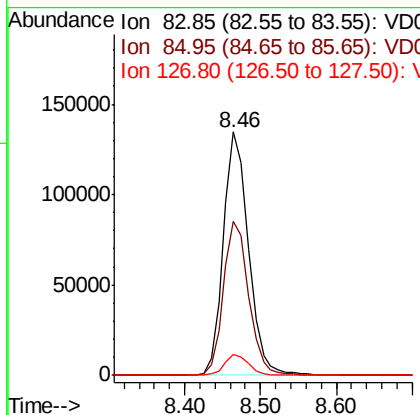
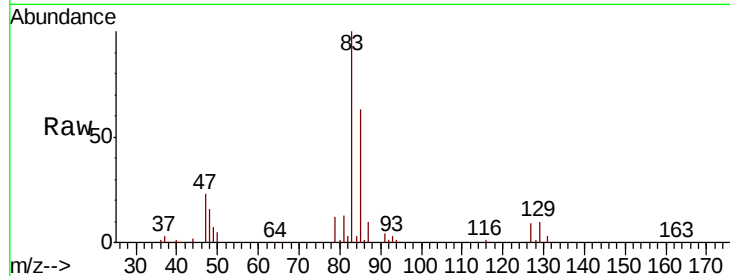
ClientSampleId :

VD0905SBSD01

Tot Ion:	83	Resp:	310104
Ion Ratio	Lower	Upper	
83	100		
85	63.0	51.3	76.9
127	8.5	7.0	10.4

Manual Integrations
APPROVED

apatel
9/6/2018 2:16:51 PM



#48

Methyl methacrylate

Concen: 20.83 ug/l

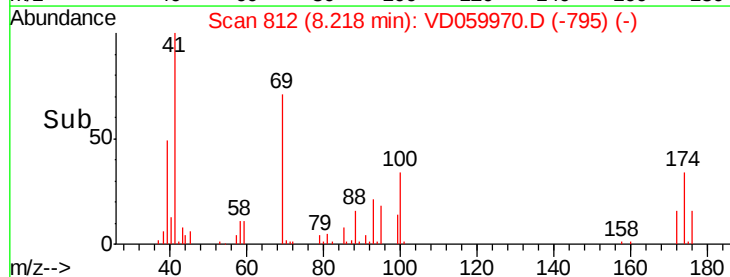
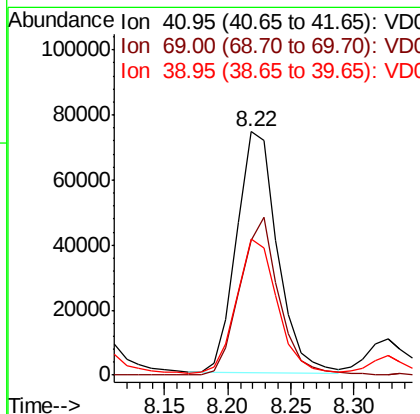
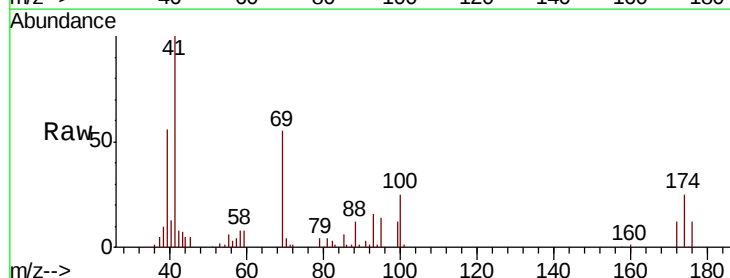
RT: 8.22 min Scan# 812

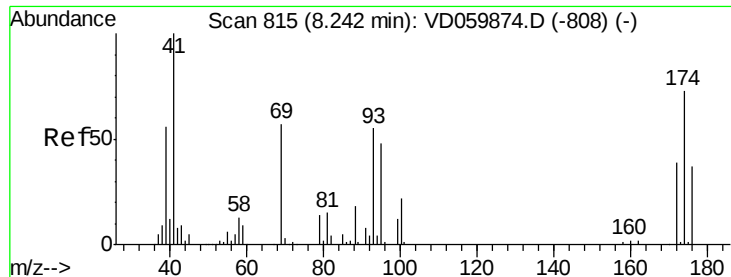
Delta R.T. -0.03 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Tgt Ion:	41	Resp:	166526
Ion Ratio	Lower	Upper	
41	100		
69	55.2	48.0	72.0
39	56.1	45.4	68.0





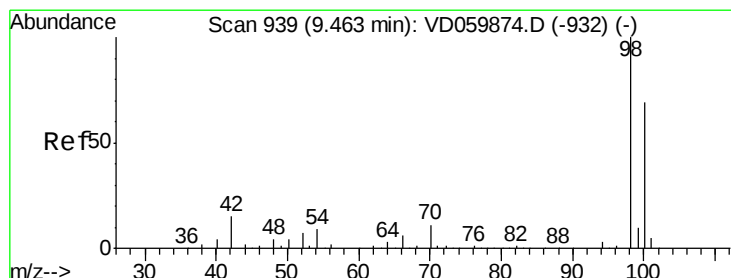
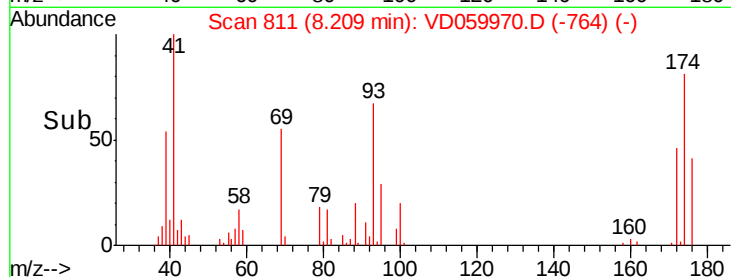
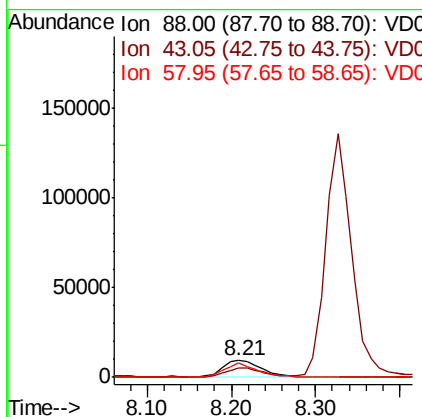
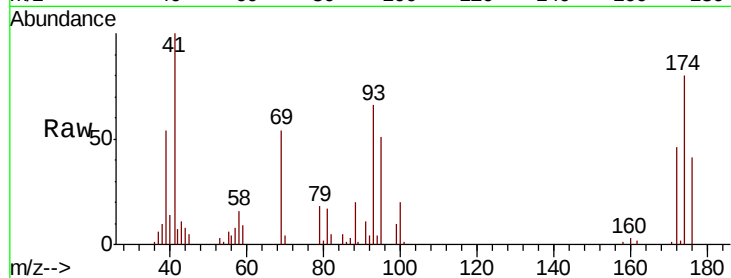
#49
 1,4-Dioxane
 Concen: 435.00 ug/l
 RT: 8.21 min Scan# 811
 Delta R.T. -0.03 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0905SBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	58.4	45.0	67.6
58	83.8	55.8	83.8#

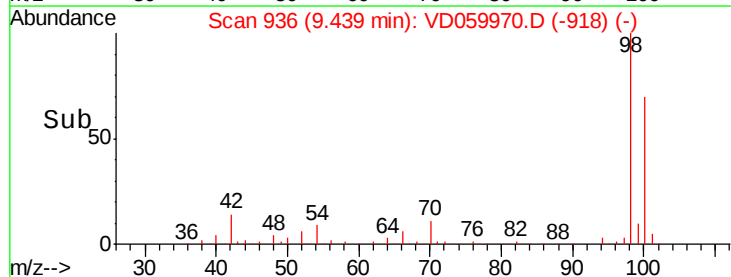
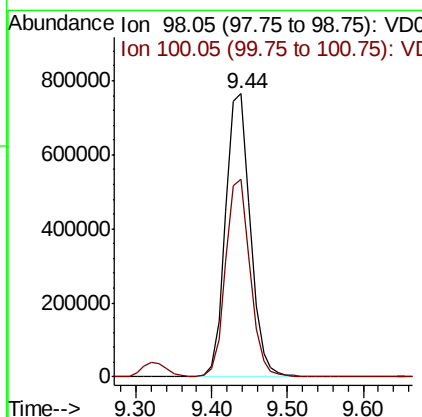
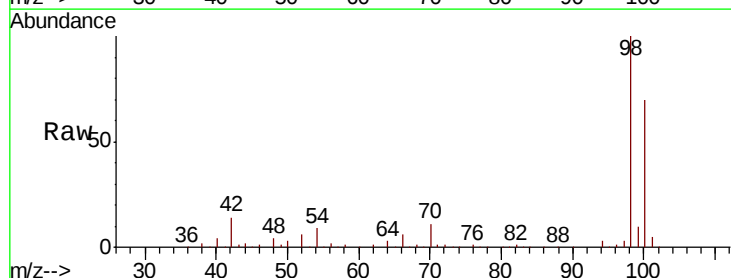
Manual Integrations
 APPROVED

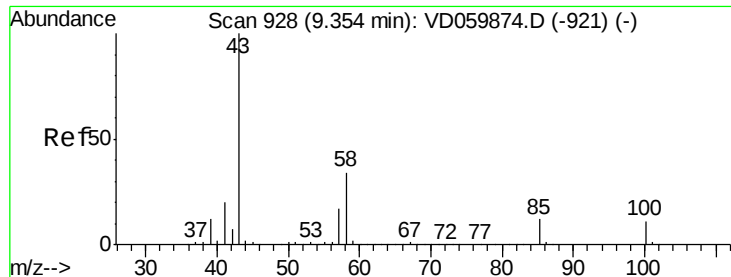
apatel
 9/6/2018 2:16:51 PM



#50
 Toluene-d8
 Concen: 435.00 ug/l
 RT: 9.44 min Scan# 936
 Delta R.T. -0.02 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.9	55.8	83.6





#51

4-Methyl-2-Pentanone

Concen: 94.71 ug/l

RT: 9.32 min Scan# 924

Delta R.T. -0.03 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

ClientSampleID :

VD0905SBS01

Tot Ion: 43 Resp: 968434

Ion Ratio Lower Upper

43 100

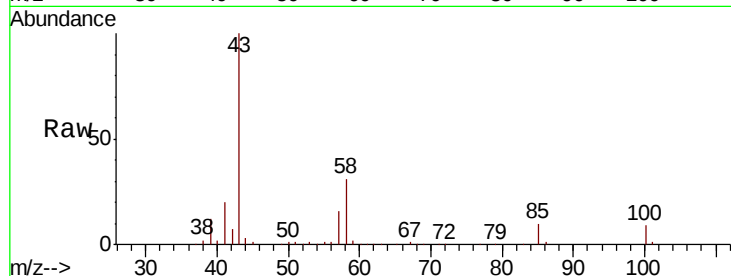
58 31.3 27.0 40.4

Manual Integrations

APPROVED

apatel

9/6/2018 2:16:51 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

9.32

400000

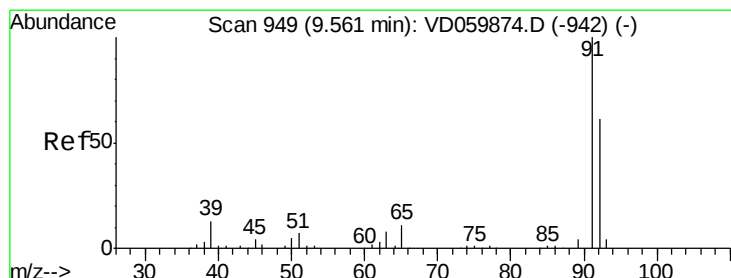
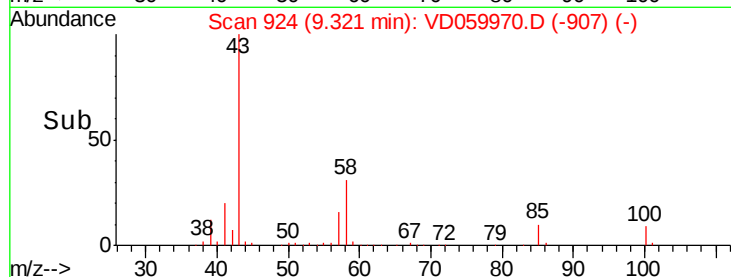
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 21.31 ug/l

RT: 9.53 min Scan# 945

Delta R.T. -0.03 min

Lab File: VD059970.D

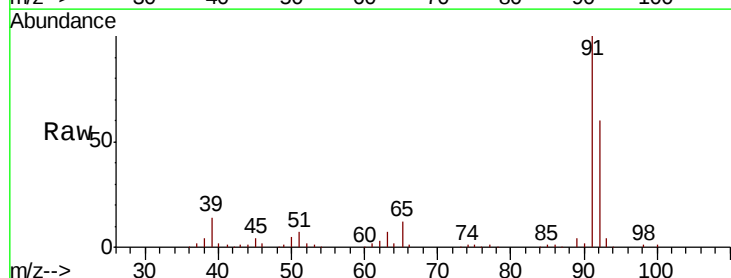
Acq: 5 Sep 2018 15:39

Tgt Ion: 92 Resp: 481480

Ion Ratio Lower Upper

92 100

91 165.3 131.4 197.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

9.53

400000

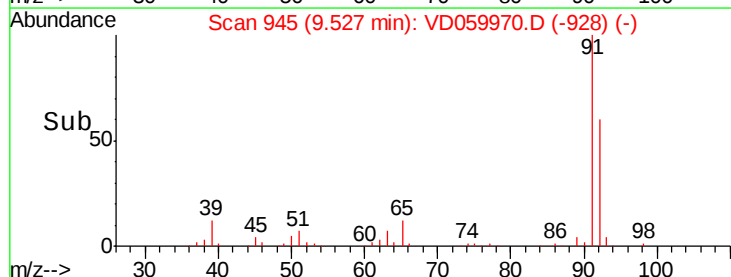
300000

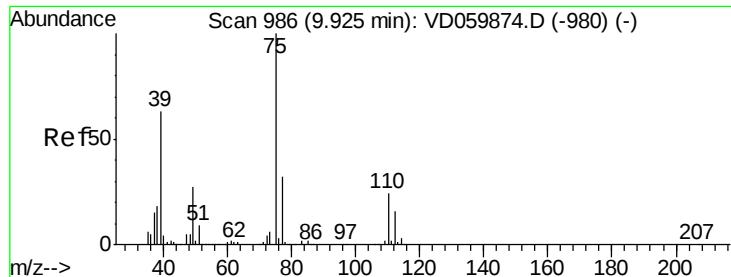
200000

100000

0

Time-->





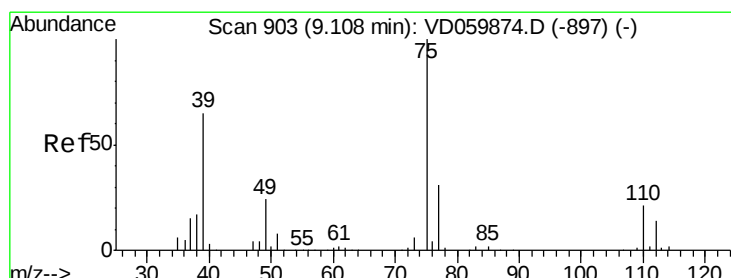
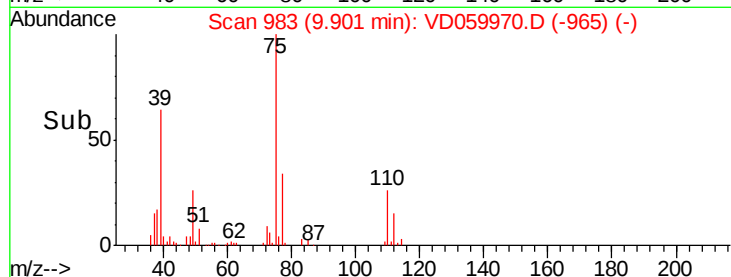
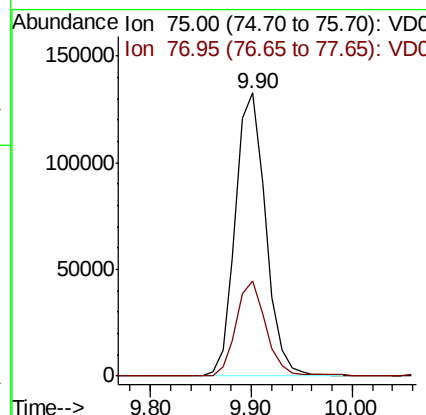
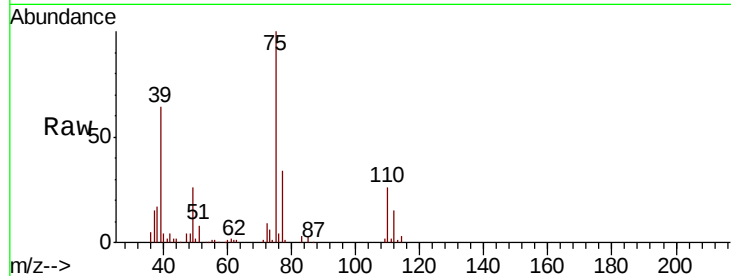
#53
t-1,3-Dichloropropene
Concen: 20.89 ug/l
RT: 9.90 min Scan# 983
Delta R.T. -0.02 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Instrument :
MSVOA_D
ClientSampleId :
VD0905SBSD01

Tot Ion: 75 Resp: 276990
Ion Ratio Lower Upper
75 100
77 33.5 25.4 38.2

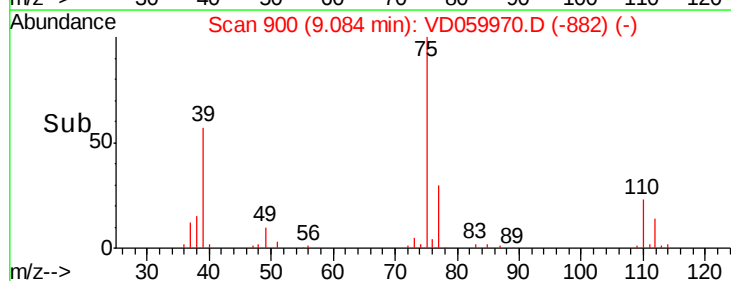
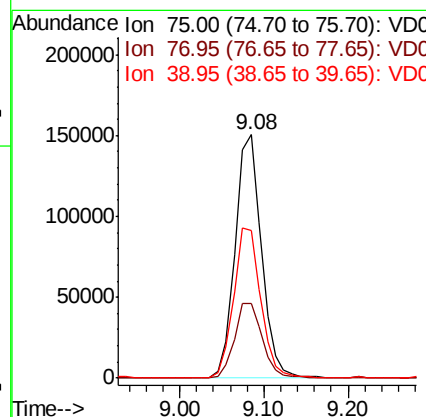
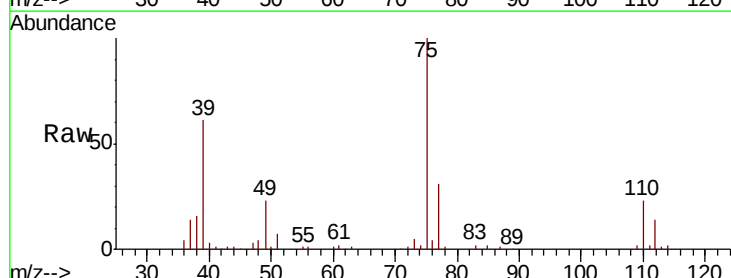
Manual Integrations
APPROVED

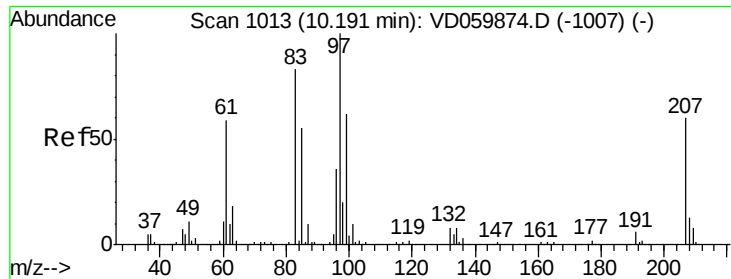
apatel
9/6/2018 2:16:51 PM



#54
cis-1,3-Dichloropropene
Concen: 21.34 ug/l
RT: 9.08 min Scan# 900
Delta R.T. -0.02 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Tgt Ion: 75 Resp: 328025
Ion Ratio Lower Upper
75 100
77 30.6 24.8 37.2
39 60.7 52.1 78.1





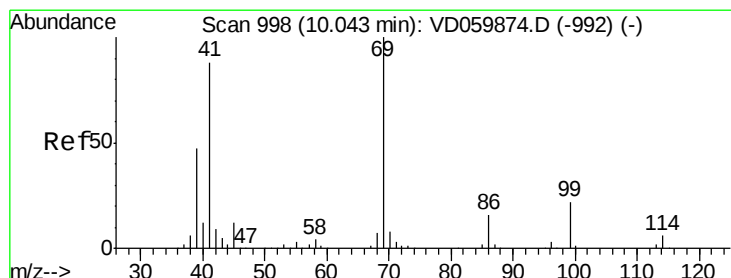
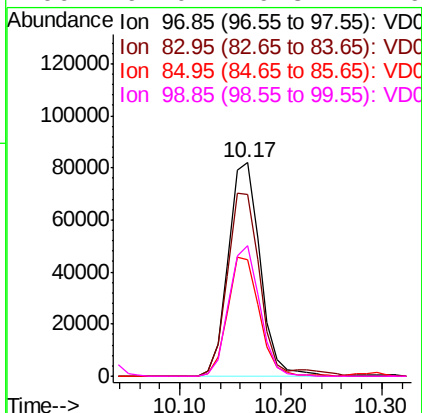
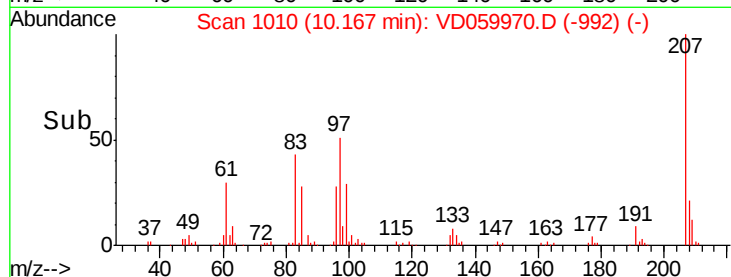
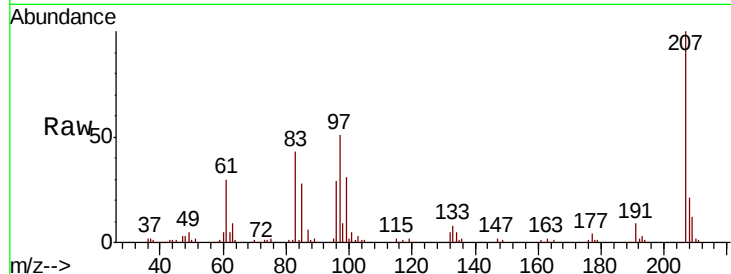
#55
 1,1,2-Trichloroethane
 Concen: 21.77 ug/l
 RT: 10.17 min Scan# 1010
 Delta R.T. -0.02 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0905SBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		179739		
83	85.2	66.7	100.1		
85	54.8	43.8	65.6		
99	61.0	49.8	74.6		

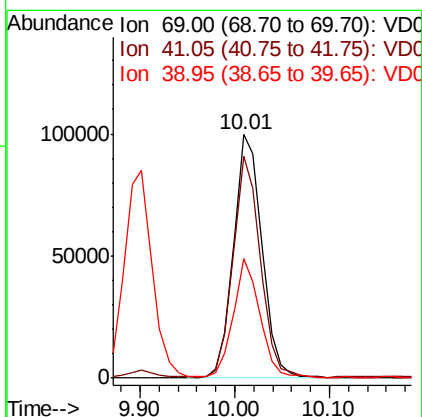
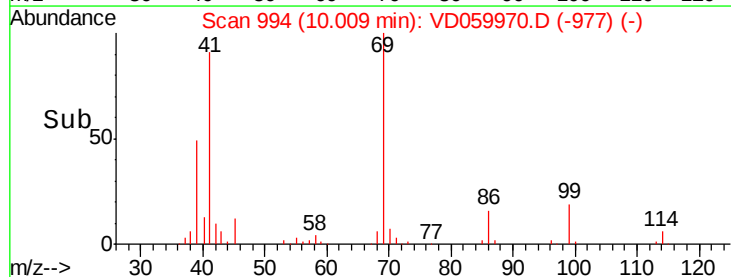
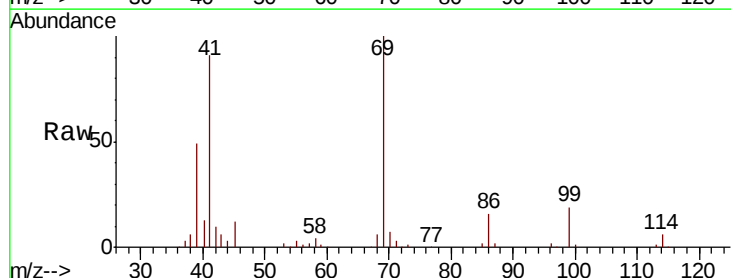
Manual Integrations
 APPROVED

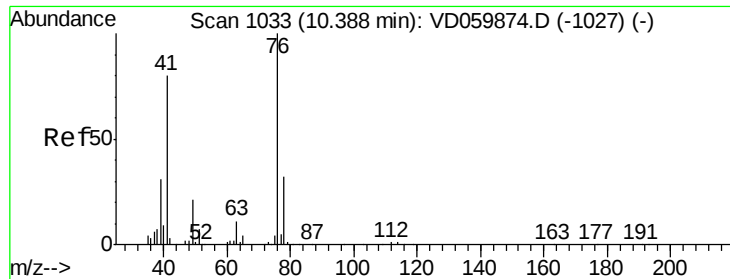
apatel
 9/6/2018 2:16:51 PM



#56
 Ethyl methacrylate
 Concen: 21.77 ug/l
 RT: 10.01 min Scan# 994
 Delta R.T. -0.03 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		207515		
41	91.1	71.0	106.4		
39	49.3	38.5	57.7		





#57

1,3-Dichloropropane

Concen: 22.94 ug/l

RT: 10.36 min Scan# 1030

Delta R.T. -0.02 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

ClientSampleId :

VD0905SBSD01

Tot Ion: 76 Resp: 274164

Ion Ratio Lower Upper

76 100

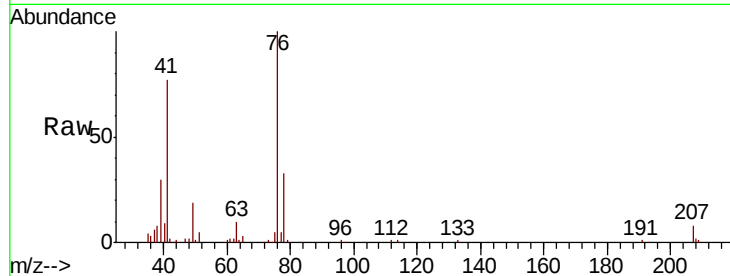
78 32.9 25.8 38.6

Manual Integrations

APPROVED

apatel

9/6/2018 2:16:51 PM



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

10.36

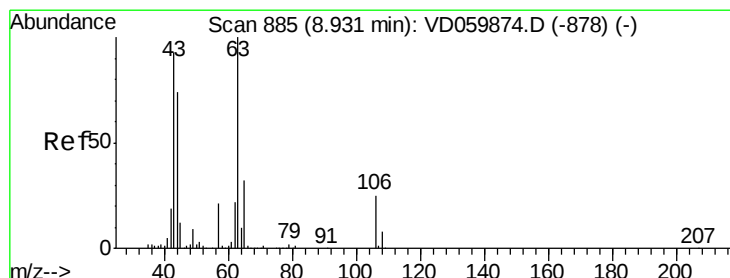
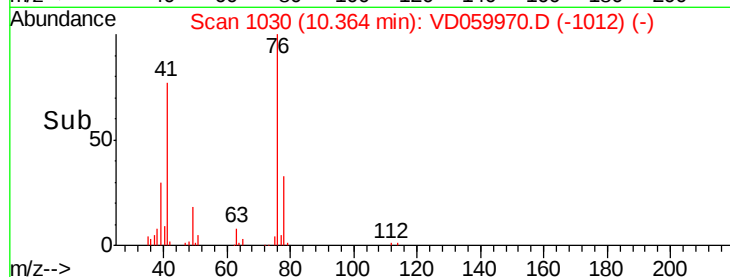
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 120.37 ug/l

RT: 8.90 min Scan# 881

Delta R.T. -0.03 min

Lab File: VD059970.D

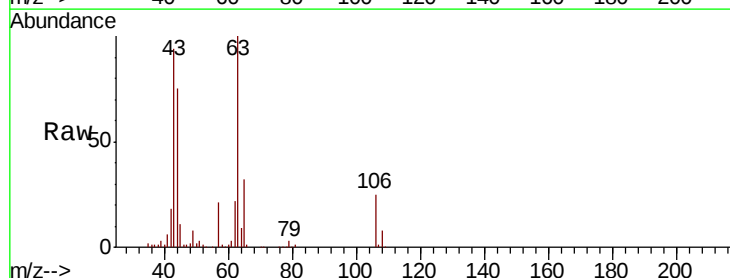
Acq: 5 Sep 2018 15:39

Tgt Ion: 63 Resp: 550295

Ion Ratio Lower Upper

63 100

106 25.1 20.1 30.1



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

8.90

300000

250000

200000

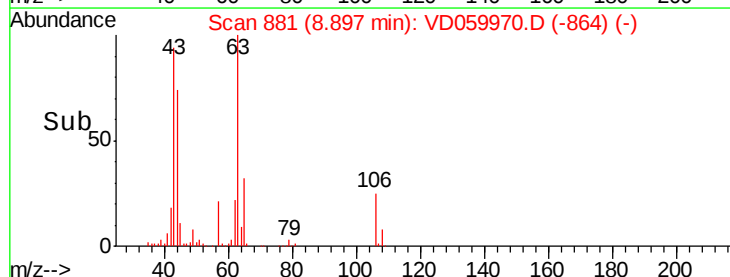
150000

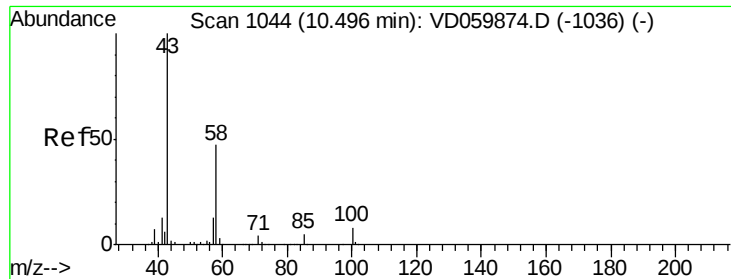
100000

50000

0

Time-->





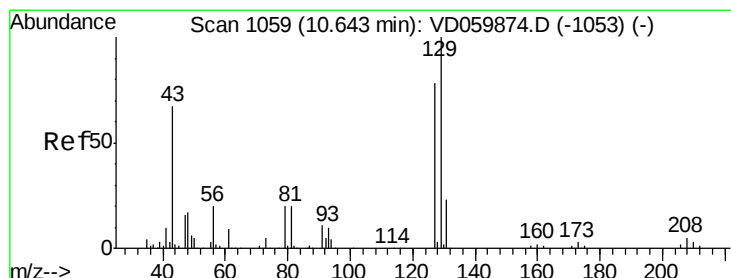
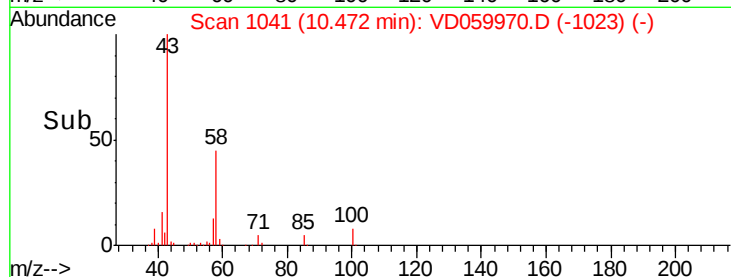
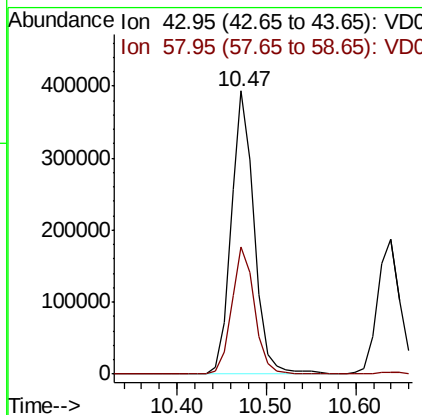
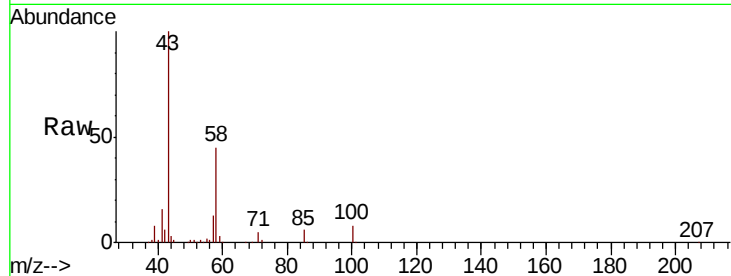
#59
2-Hexanone
Concen: 94.24 ug/l
RT: 10.47 min Scan# 1041
Delta R.T. -0.02 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Instrument :
MSVOA_D
ClientSampleId :
VD0905SBSD01

Tot Ion: 43 Resp: 710784
Ion Ratio Lower Upper
43 100
58 45.0 23.3 69.8

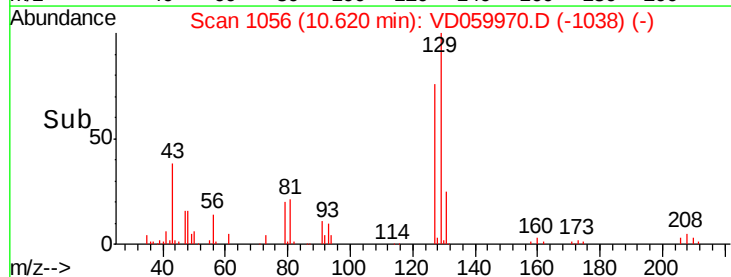
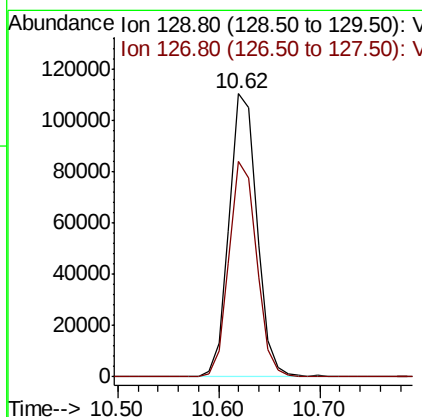
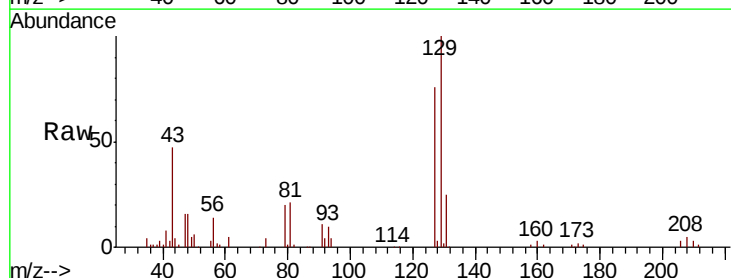
Manual Integrations
APPROVED

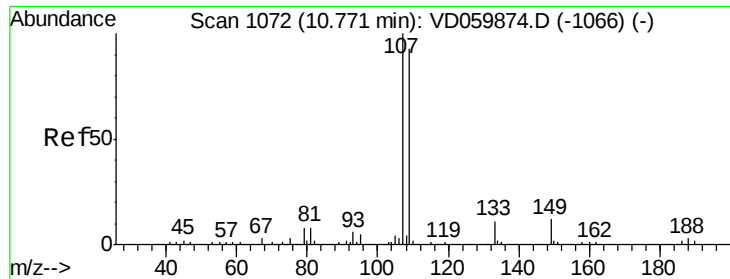
apatel
9/6/2018 2:16:51 PM



#60
Dibromochloromethane
Concen: 20.39 ug/l
RT: 10.62 min Scan# 1056
Delta R.T. -0.02 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Tgt Ion: 129 Resp: 211675
Ion Ratio Lower Upper
129 100
127 76.2 39.1 117.2





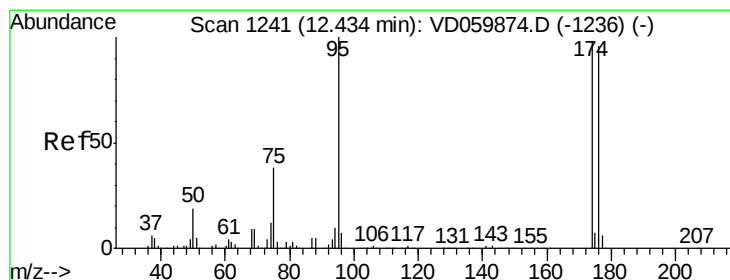
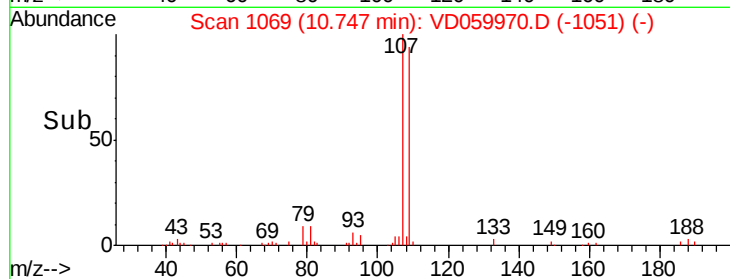
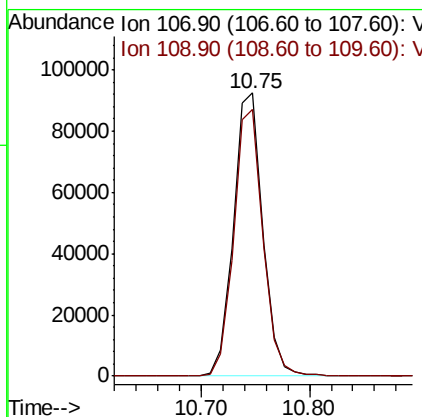
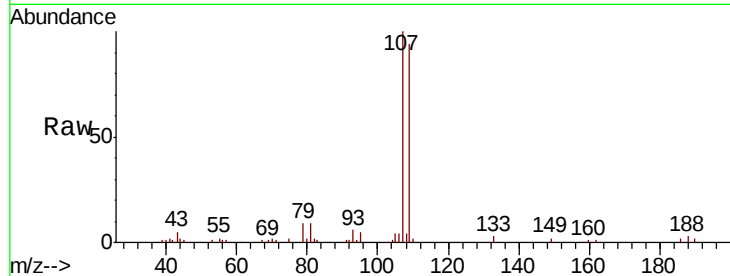
#61
 1,2-Dibromoethane
 Concen: 20.74 ug/l
 RT: 10.75 min Scan# 1069
 Delta R.T. -0.02 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0905SBSD01

Tot Ion: 107 Resp: 173195
 Ion Ratio Lower Upper
 107 100
 109 94.2 74.6 112.0

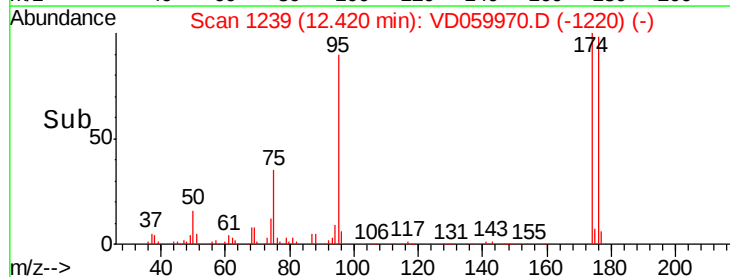
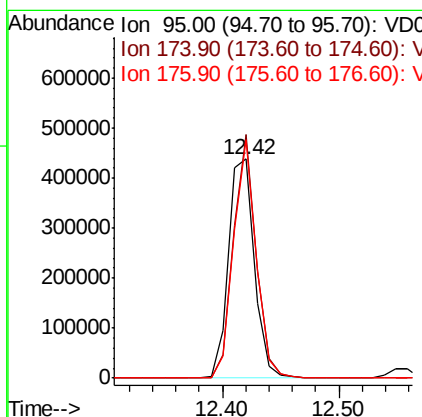
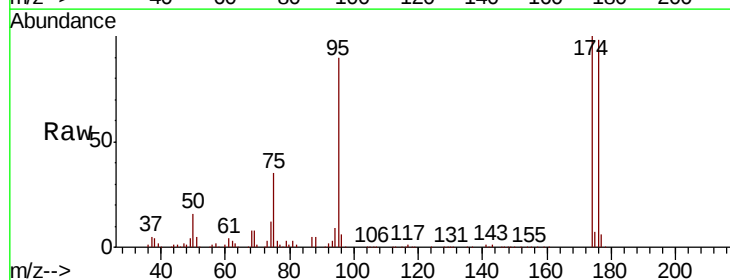
Manual Integrations
 APPROVED

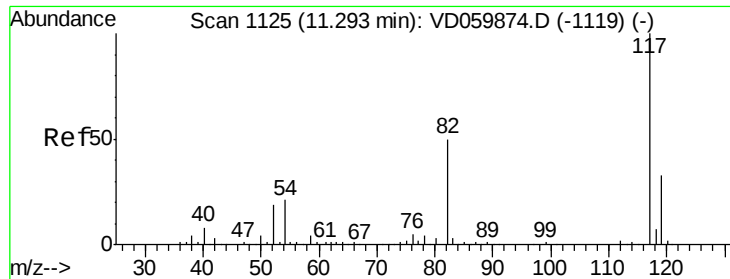
apatel
 9/6/2018 2:16:51 PM



#62
 4-Bromofluorobenzene
 Concen: 20.74 ug/l
 RT: 12.42 min Scan# 1239
 Delta R.T. -0.01 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Tgt Ion: 95 Resp: 675354
 Ion Ratio Lower Upper
 95 100
 174 111.1 0.0 195.6
 176 108.8 0.0 191.2





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.27 min Scan# 1122

Delta R.T. -0.02 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

ClientSampleId :

VD0905SBSD01

Tot Ion:117 Resp: 1319576

Ion Ratio Lower Upper

117 100

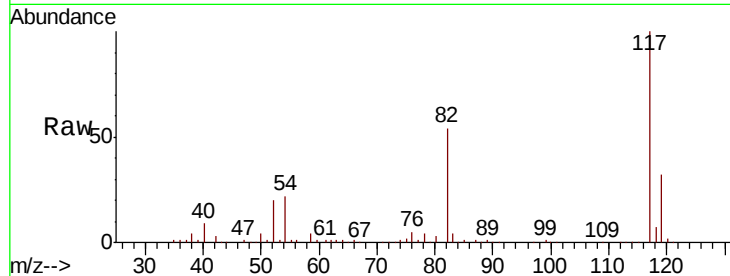
82 54.4 40.1 60.1

119 32.4 26.7 40.1

Manual Integrations
APPROVED

apatel

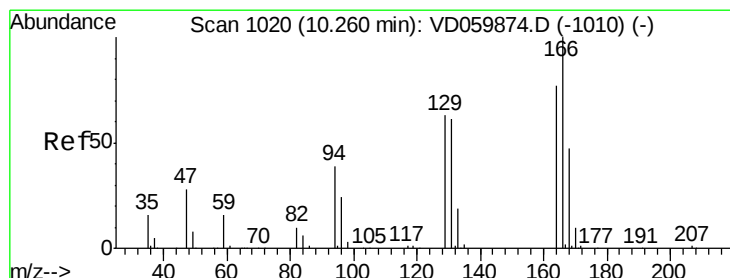
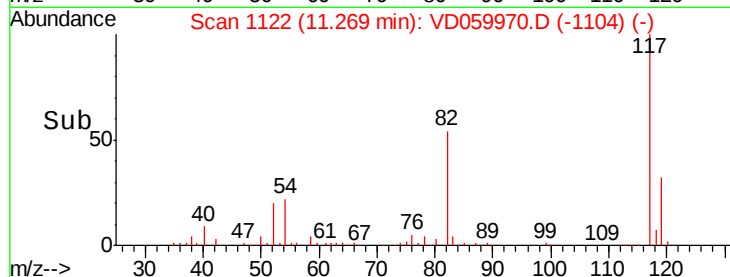
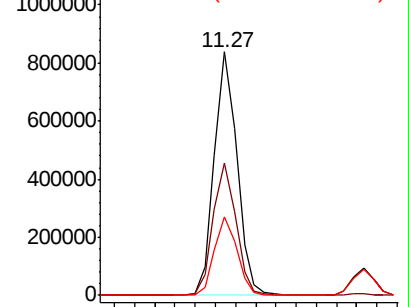
9/6/2018 2:16:51 PM



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64

Tetrachloroethene

Concen: 19.90 ug/l

RT: 10.24 min Scan# 1017

Delta R.T. -0.02 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Tgt Ion:164 Resp: 203003

Ion Ratio Lower Upper

164 100

166 129.5 103.4 155.2

129 78.0 65.2 97.8

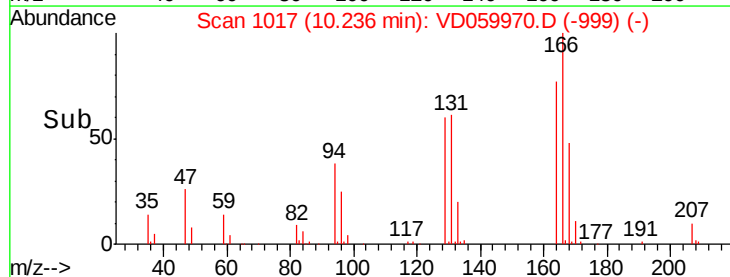
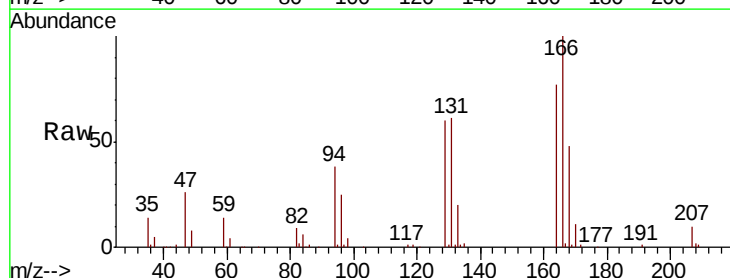
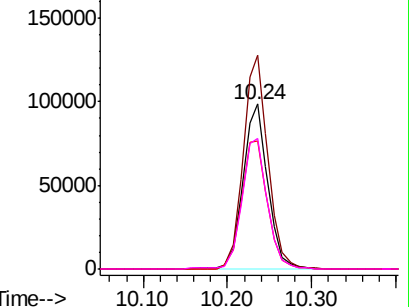
131 78.8 63.1 94.7

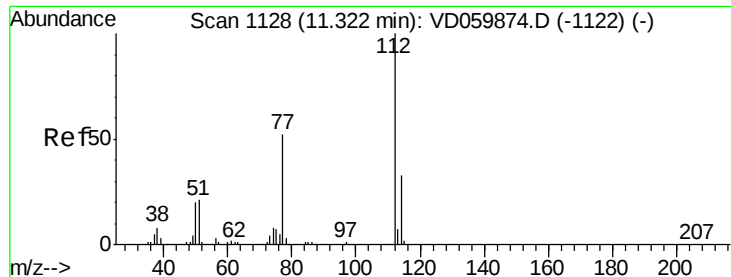
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





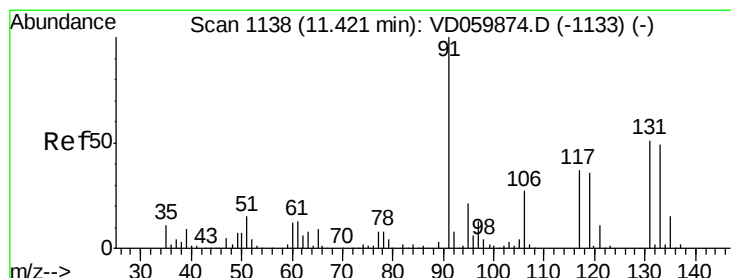
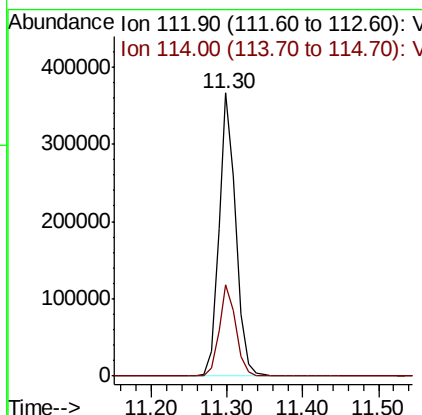
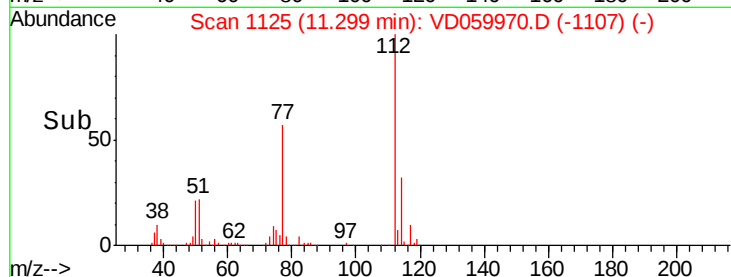
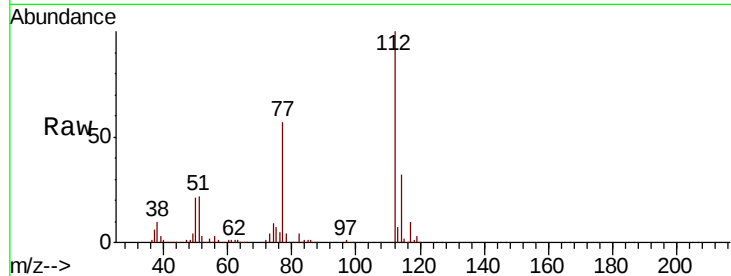
#65
Chlorobenzene
Concen: 21.58 ug/l
RT: 11.30 min Scan# 1125
Delta R.T. -0.02 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Instrument :
MSVOA_D
ClientSampleId :
VD0905SBS01

Tot Ion:112 Resp: 565793
Ion Ratio Lower Upper
112 100
114 32.3 26.4 39.6

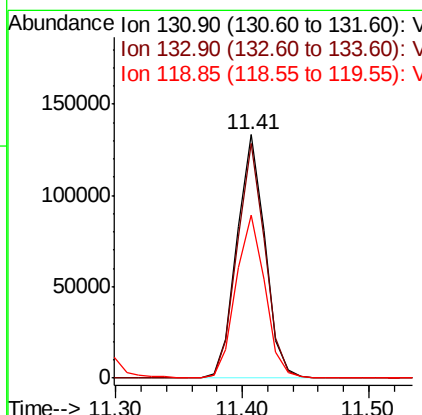
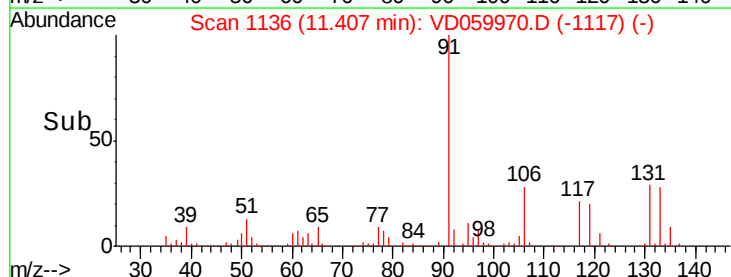
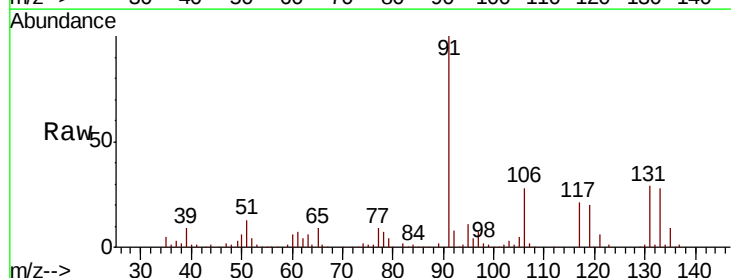
Manual Integrations
APPROVED

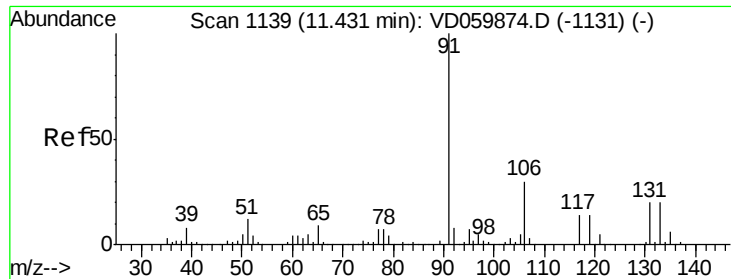
apatel
9/6/2018 2:16:51 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.41 ug/l
RT: 11.41 min Scan# 1136
Delta R.T. -0.01 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Tgt Ion:131 Resp: 205146
Ion Ratio Lower Upper
131 100
133 96.4 48.3 144.8
119 66.8 35.4 106.3





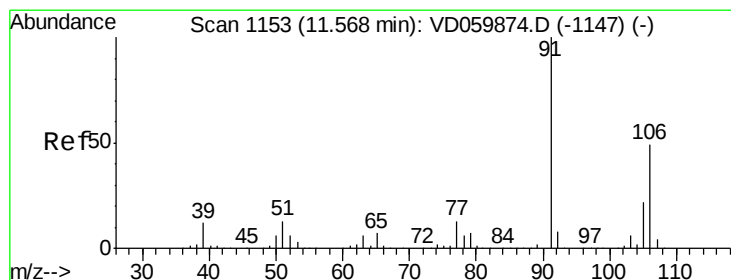
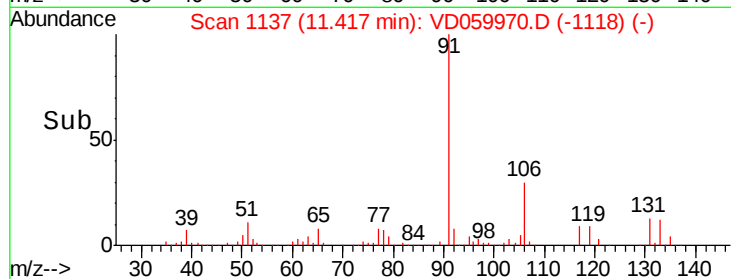
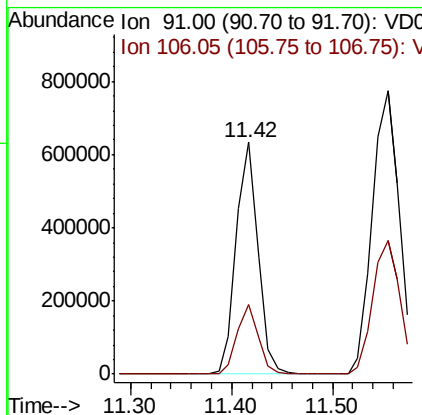
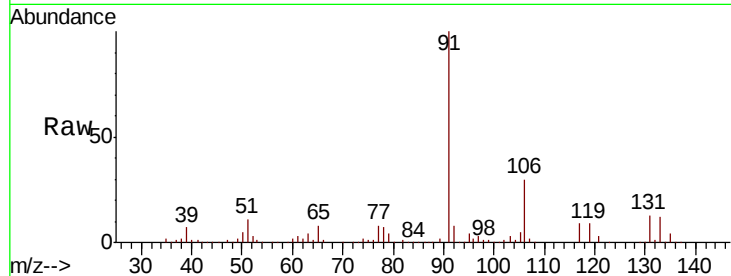
#67
Ethyl Benzene
Concen: 21.58 ug/l
RT: 11.42 min Scan# 1137
Delta R.T. -0.01 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Instrument :
MSVOA_D
ClientSampleID :
VD0905SBSD01

Tot Ion: 91 Resp: 951834
Ion Ratio Lower Upper
91 100
106 30.0 23.8 35.8

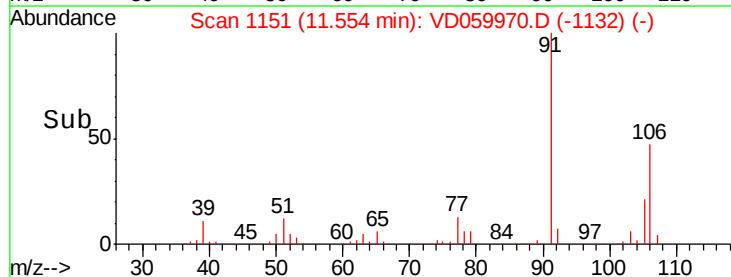
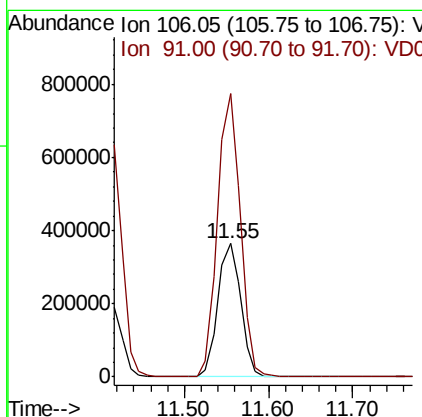
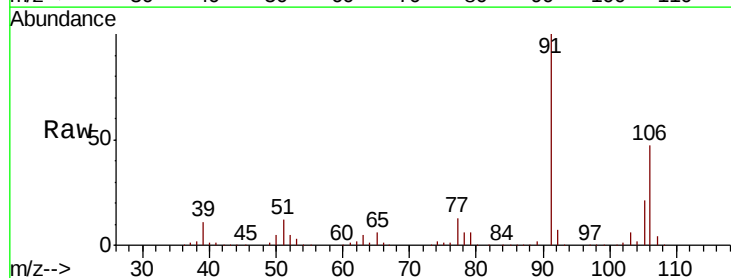
Manual Integrations
APPROVED

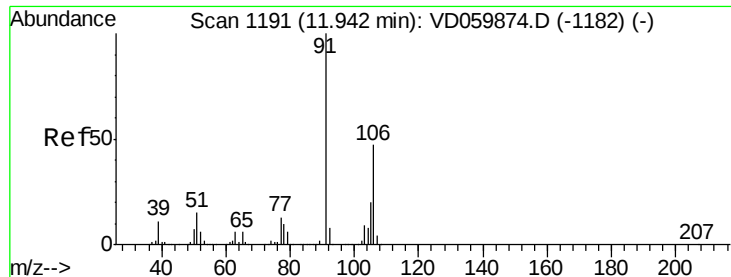
apatel
9/6/2018 2:16:51 PM



#68
m/p-Xylenes
Concen: 43.05 ug/l
RT: 11.55 min Scan# 1151
Delta R.T. -0.01 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Tgt Ion: 106 Resp: 691451
Ion Ratio Lower Upper
106 100
91 212.8 162.0 243.0





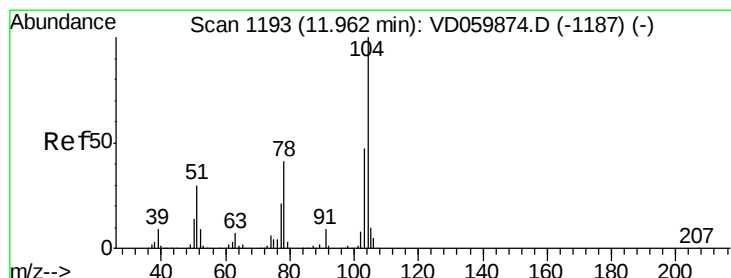
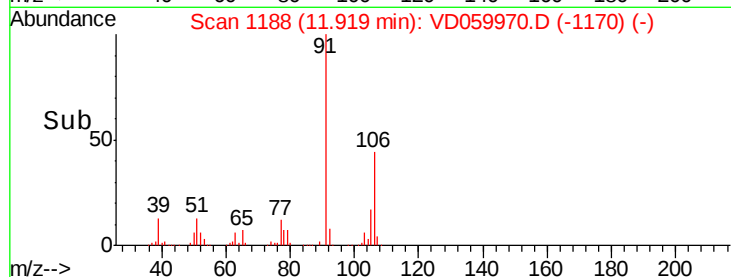
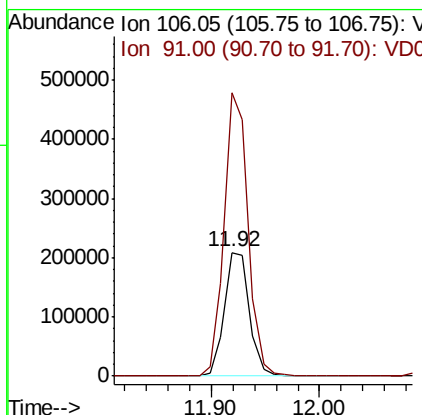
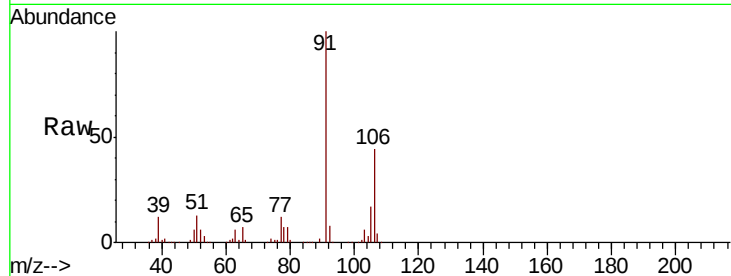
#69
o-Xylene
Concen: 21.39 ug/l
RT: 11.92 min Scan# 1188
Delta R.T. -0.02 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Instrument :
MSVOA_D
ClientSampleId :
VD0905SBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	229.2	107.3	336074		322.0

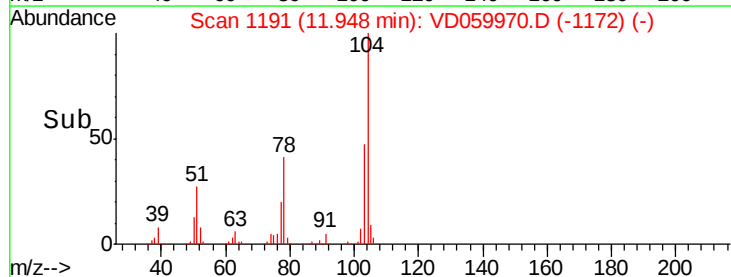
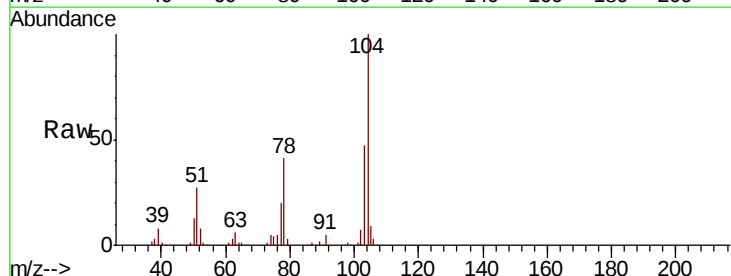
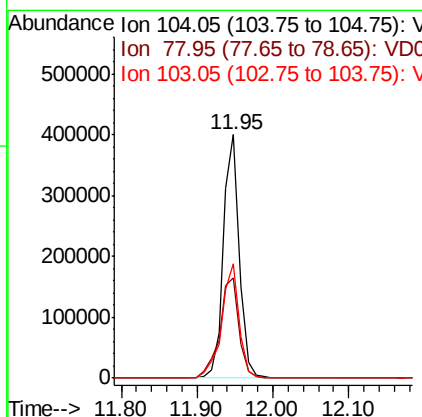
Manual Integrations
APPROVED

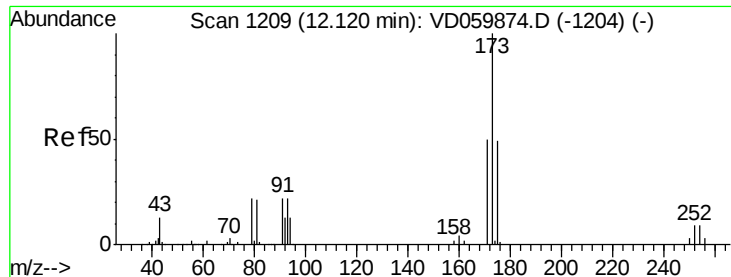
apatel
9/6/2018 2:16:51 PM



#70
Styrene
Concen: 21.49 ug/l
RT: 11.95 min Scan# 1191
Delta R.T. -0.01 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	40.9	32.6	584442		49.0
103	47.2	37.7			56.5





#71

Bromoform

Concen: 18.42 ug/l

RT: 12.11 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

ClientSampleId :

VD0905SBS01

Tot Ion:173 Resp: 152715

Ion Ratio Lower Upper

173 100

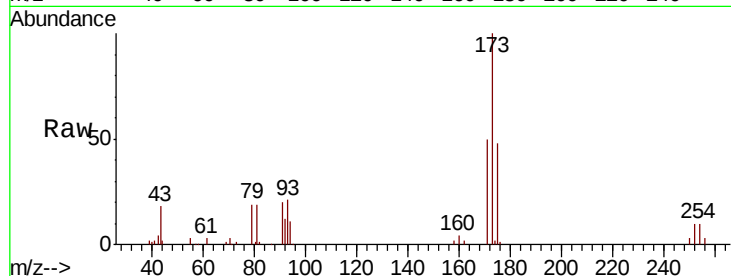
175 47.8 24.3 73.0

254 9.7 7.0 10.6

Manual Integrations
APPROVED

apatel

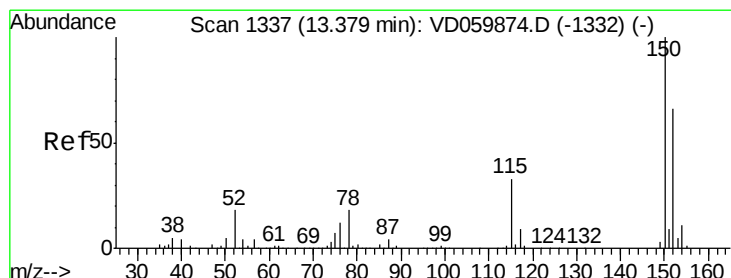
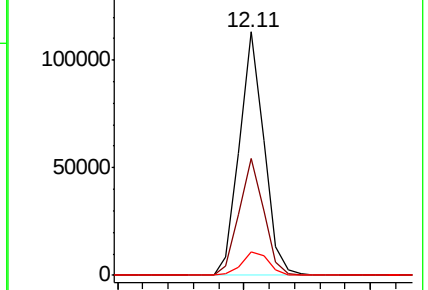
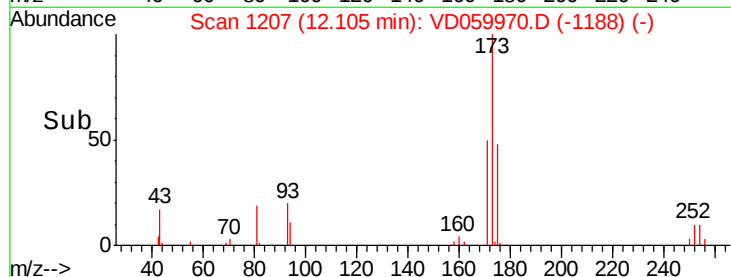
9/6/2018 2:16:51 PM



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.37 min Scan# 1335

Delta R.T. -0.01 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

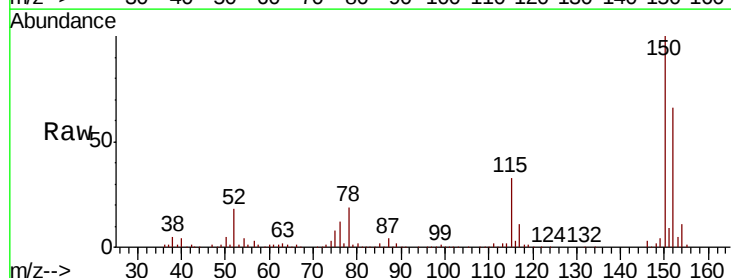
Tgt Ion:152 Resp: 720774

Ion Ratio Lower Upper

152 100

115 49.8 25.7 77.0

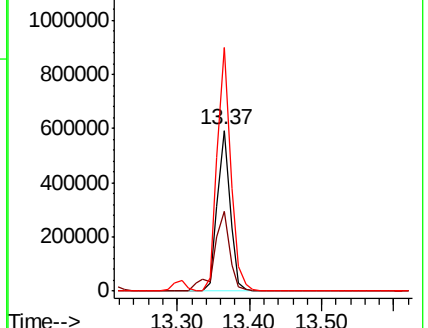
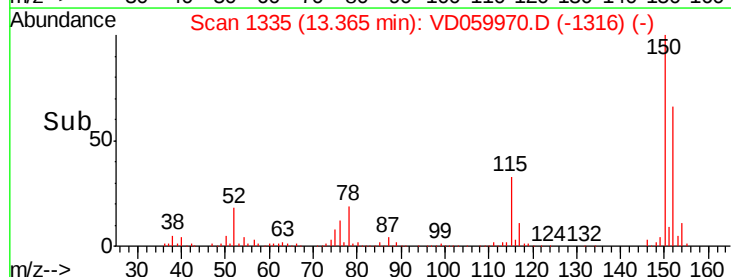
150 151.6 0.0 310.2

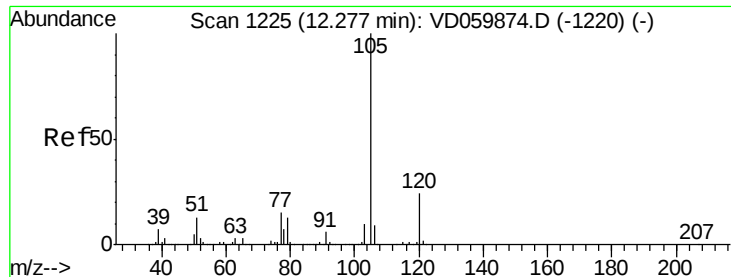


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.44 ug/l

RT: 12.26 min Scan# 1223

Delta R.T. -0.01 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

ClientSampleId :

VD0905SBS01

Tot Ion: 105 Resp: 940542

Ion Ratio Lower Upper

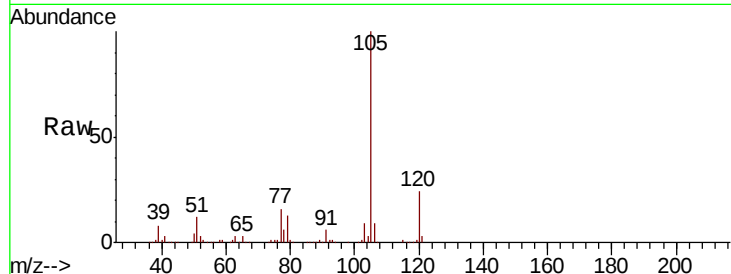
105 100

120 24.1 11.8 35.4

Manual Integrations
APPROVED

apatel

9/6/2018 2:16:51 PM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

12.26

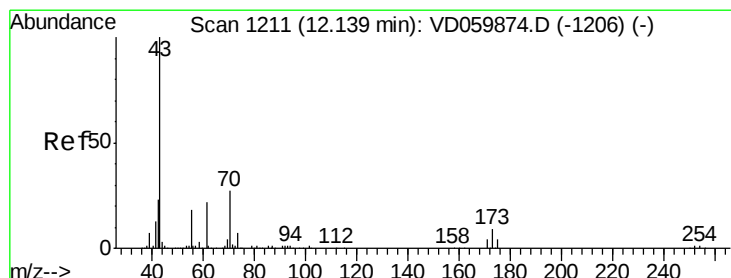
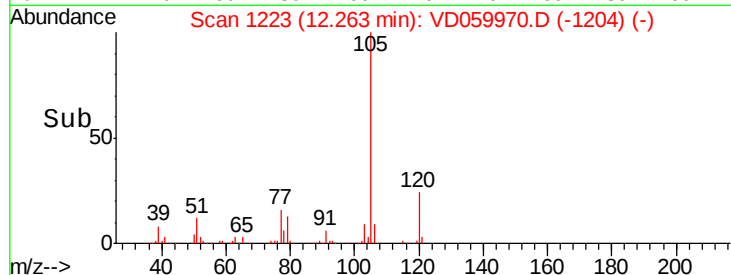
600000

400000

200000

0

Time-->



#74

N-ethyl acetate

Concen: 18.82 ug/l

RT: 12.13 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Tgt Ion: 43 Resp: 379241

Ion Ratio Lower Upper

43 100

70 28.4 21.4 32.2

55 17.3 14.1 21.1

61 23.1 17.8 26.8

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

400000

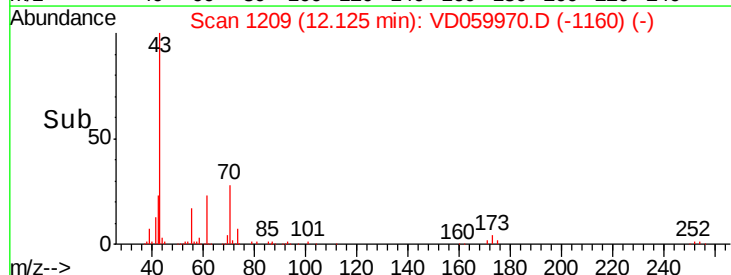
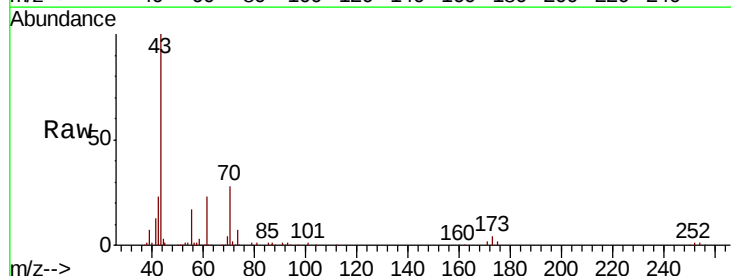
300000

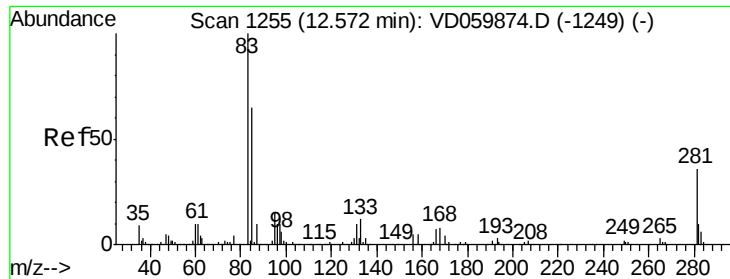
200000

100000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.40 ug/l

RT: 12.55 min Scan# 1252

Delta R.T. -0.02 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

ClientSampleId :

VD0905SBS01

Tot Ion: 83 Resp: 217139

Ion Ratio Lower Upper

83 100

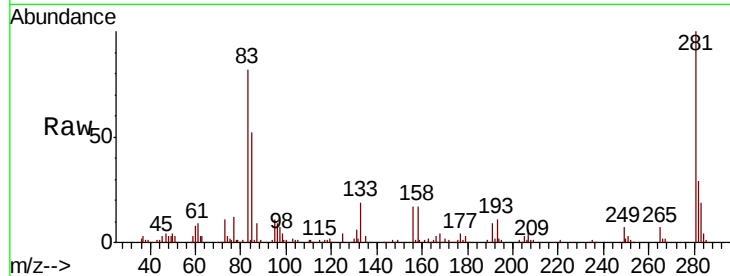
131 7.8 4.8 14.4

85 63.9 32.6 97.8

Manual Integrations
APPROVED

apatel

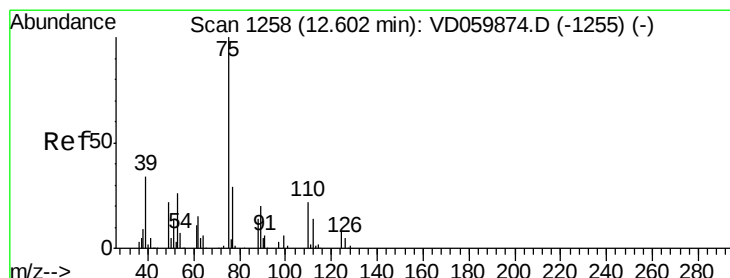
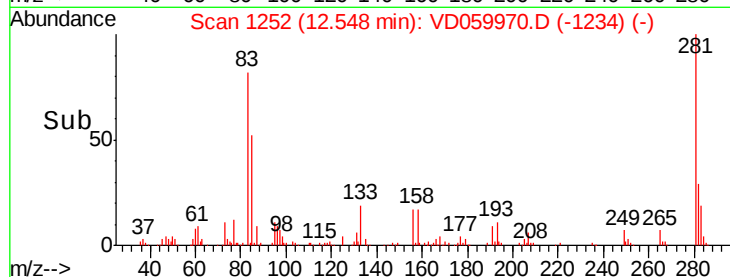
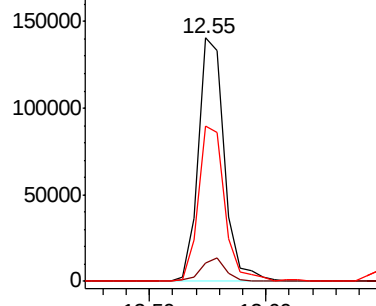
9/6/2018 2:16:51 PM



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 19.29 ug/l

RT: 12.59 min Scan# 1256

Delta R.T. -0.01 min

Lab File: VD059970.D

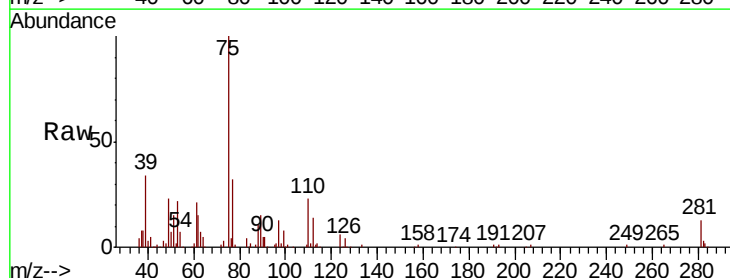
Acq: 5 Sep 2018 15:39

Tgt Ion: 75 Resp: 216090

Ion Ratio Lower Upper

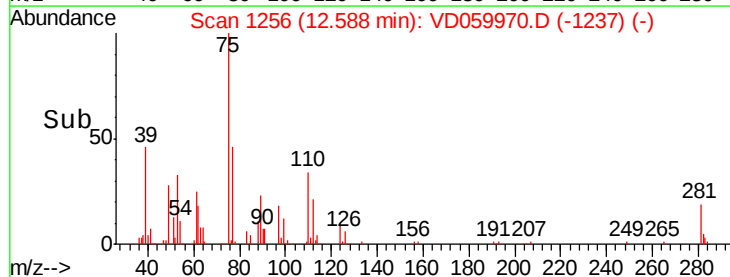
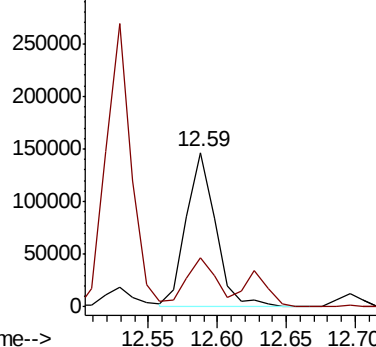
75 100

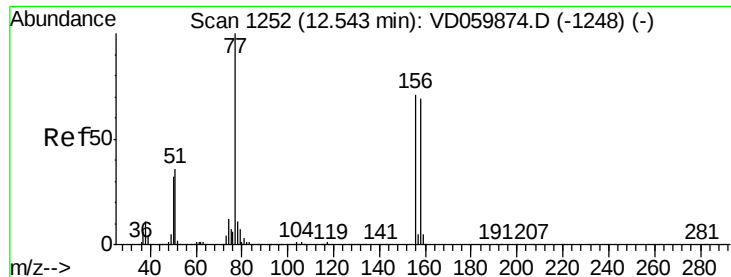
77 31.8 16.4 49.2



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 21.39 ug/l

RT: 12.53 min Scan# 1250

Delta R.T. -0.01 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

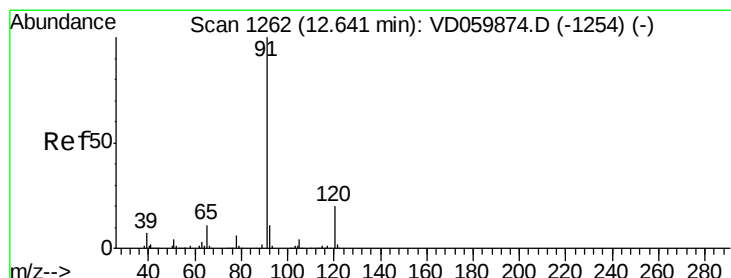
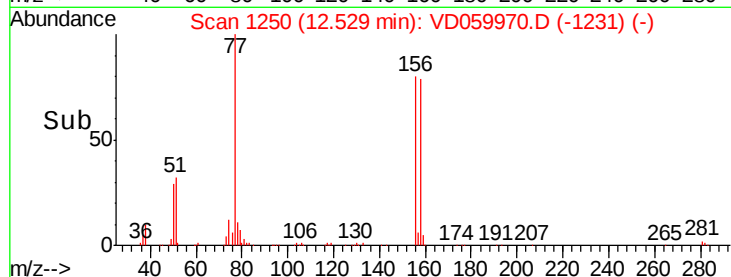
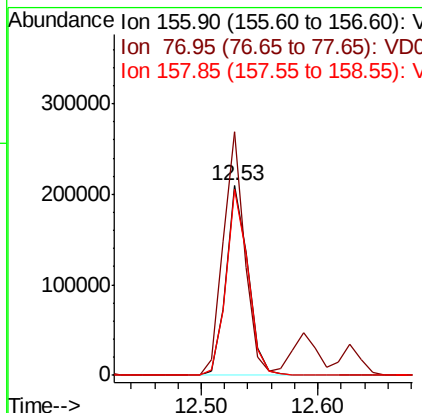
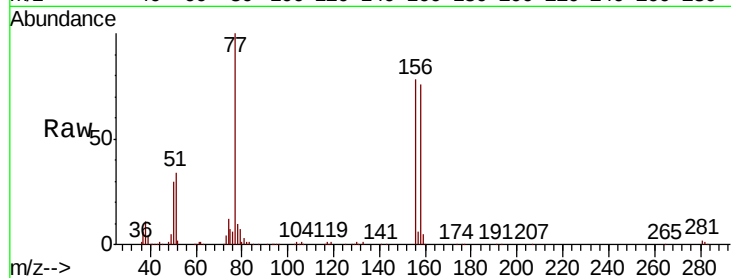
ClientSampleId :

VD0905SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	128.6	70.2	210.4
158	98.4	48.4	145.2

Manual Integrations
APPROVED

apatel
9/6/2018 2:16:51 PM



#78

n-propylbenzene

Concen: 20.62 ug/l

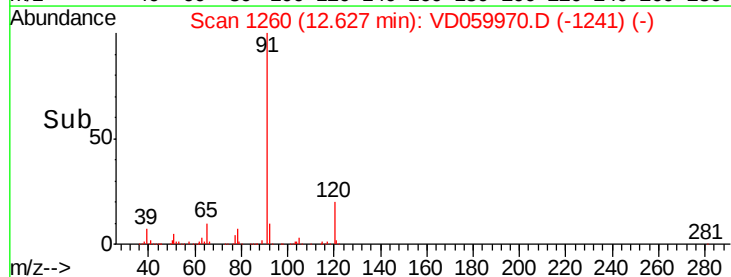
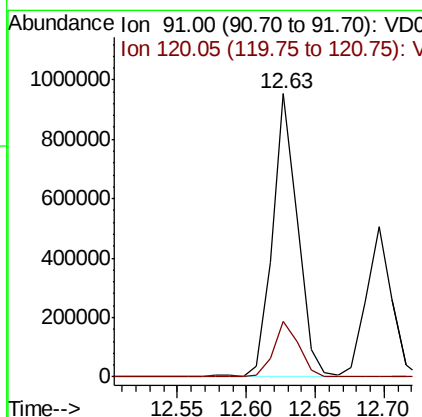
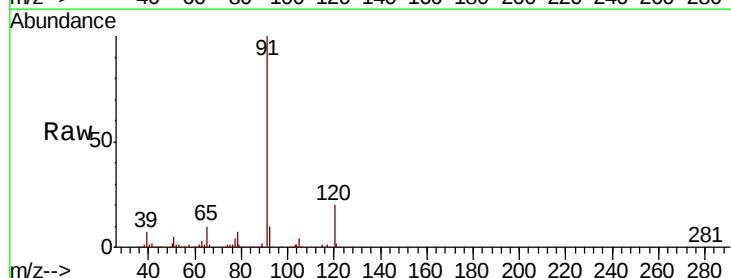
RT: 12.63 min Scan# 1260

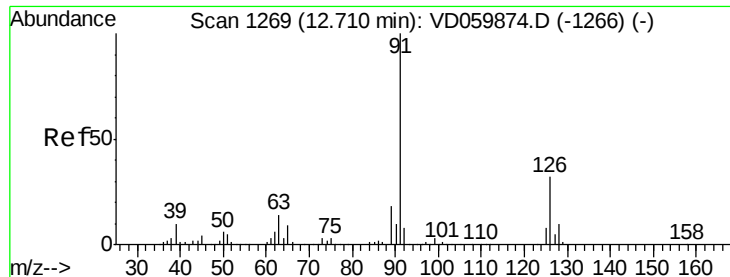
Delta R.T. -0.01 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Lower	Upper
91	100		
120	19.5	10.1	30.3





#79

2-Chlorotoluene

Concen: 19.68 ug/l

RT: 12.70 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

ClientSampleId :

VD0905SBSD01

Tot Ion: 91 Resp: 648456

Ion Ratio Lower Upper

91 100

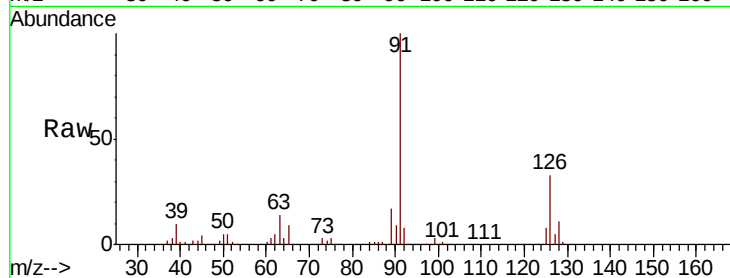
126 33.0 16.1 48.2

Manual Integrations

APPROVED

apatel

9/6/2018 2:16:51 PM



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V

1000000

800000

600000

400000

200000

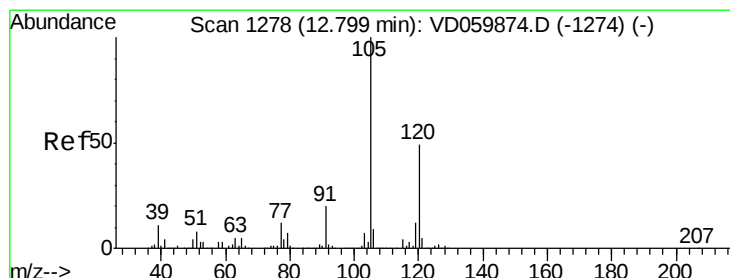
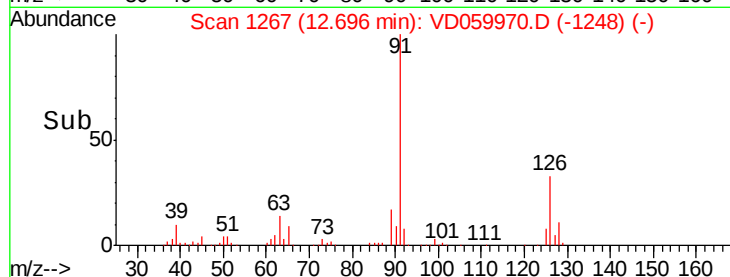
0

12.65

12.70

12.75

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.18 ug/l

RT: 12.78 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VD059970.D

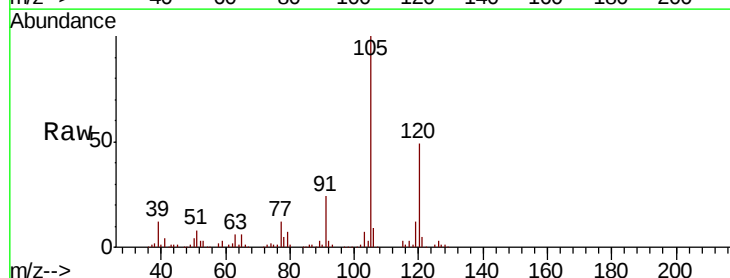
Acq: 5 Sep 2018 15:39

Tgt Ion:105 Resp: 738026

Ion Ratio Lower Upper

105 100

120 49.2 24.5 73.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

600000

400000

200000

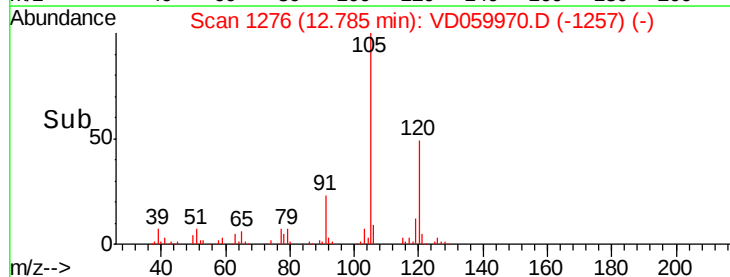
0

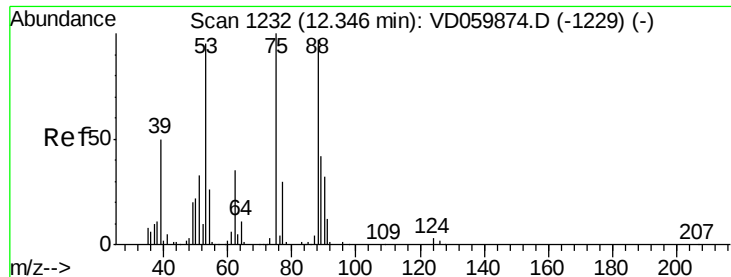
12.70

12.80

12.90

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 17.34 ug/l

RT: 12.33 min Scan# 1230

Delta R.T. -0.01 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

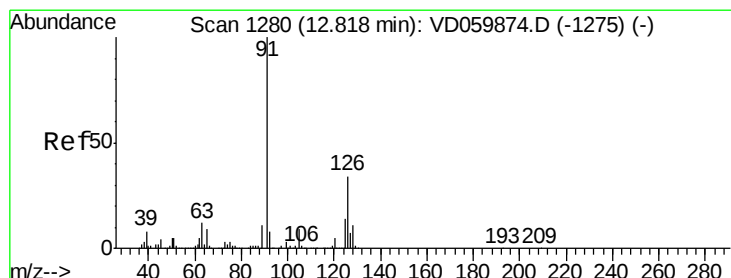
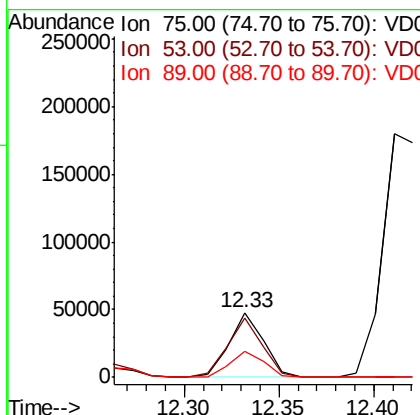
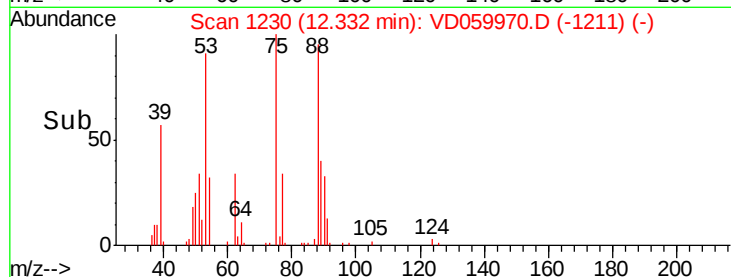
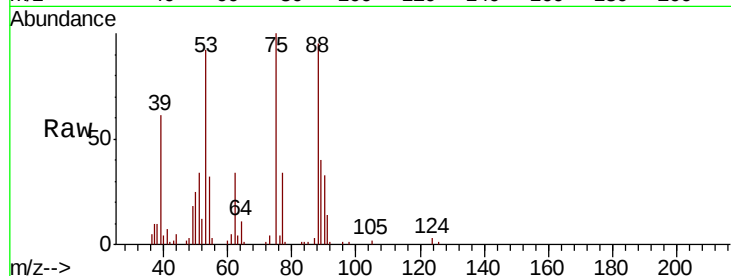
ClientSampleId :

VD0905SBSD01

Tot Ion:	75	Resp:	60408
Ion	Ratio	Lower	Upper
75	100		
53	91.8	75.8	113.6
89	40.0	33.6	50.4

Manual Integrations
APPROVED

apatel
9/6/2018 2:16:51 PM



#82

4-Chlorotoluene

Concen: 20.33 ug/l

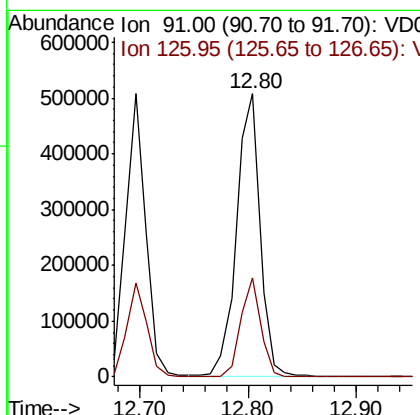
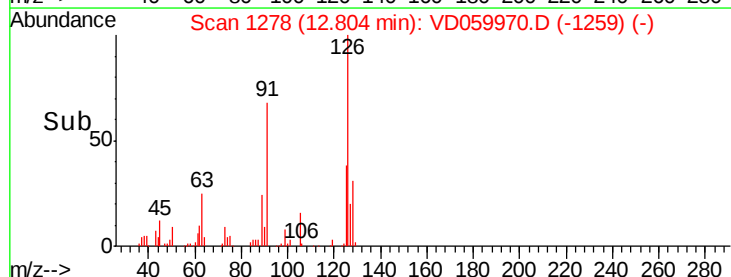
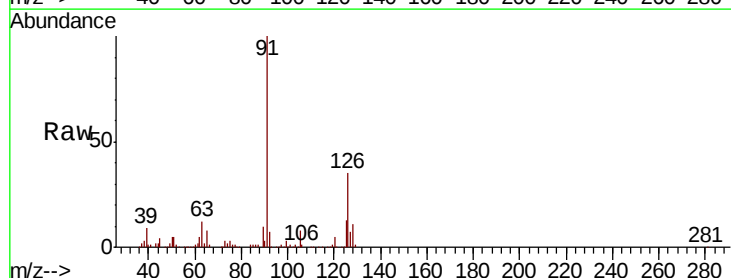
RT: 12.80 min Scan# 1278

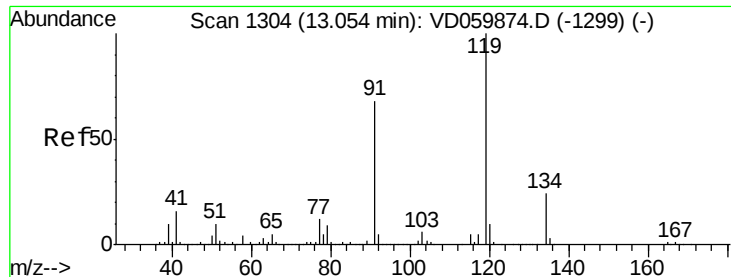
Delta R.T. -0.01 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Tgt Ion:	91	Resp:	763868
Ion	Ratio	Lower	Upper
91	100		
126	35.2	17.1	51.2





#83

tert-Butylbenzene

Concen: 20.33 ug/l

RT: 13.04 min Scan# 1302

Delta R.T. -0.01 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Instrument :

MSVOA_D

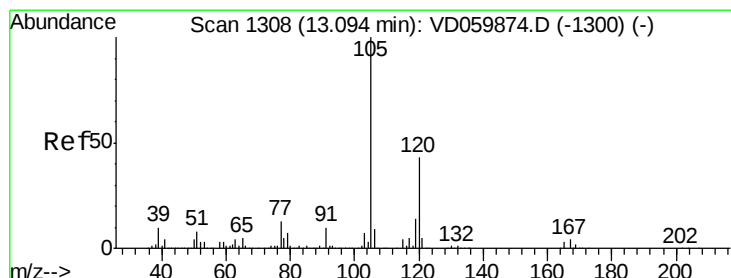
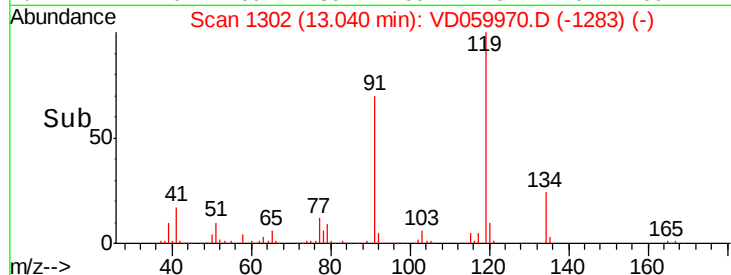
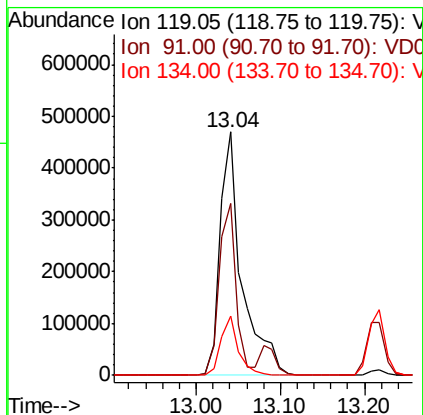
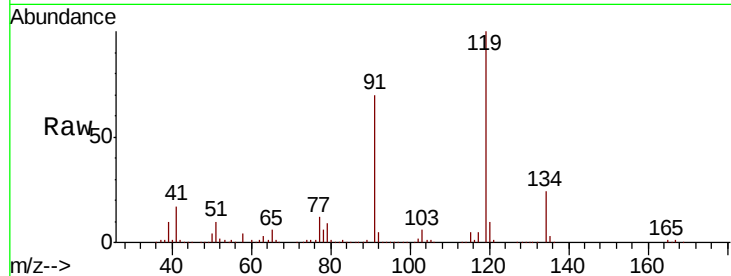
ClientSampleId :

VD0905SBSD01

Tot Ion:	119	Resp:	847352
Ion Ratio	Lower	Upper	
119	100		
91	70.5	34.3	102.9
134	24.4	11.9	35.9

Manual Integrations
APPROVED

apatel
9/6/2018 2:16:51 PM



#84

1,2,4-Trimethylbenzene

Concen: 19.92 ug/l

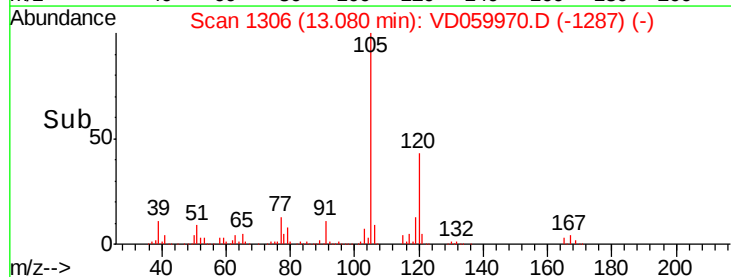
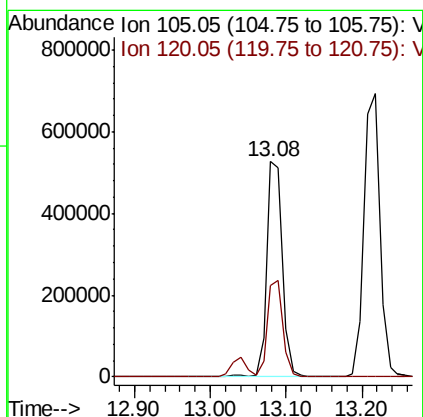
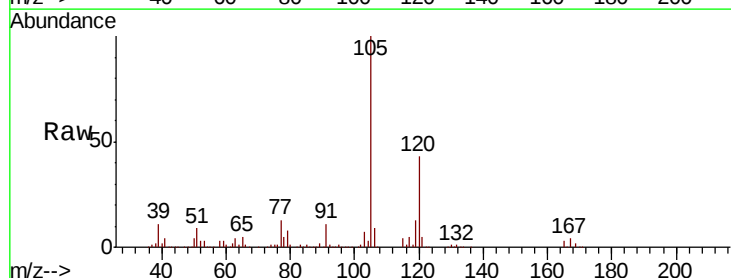
RT: 13.08 min Scan# 1306

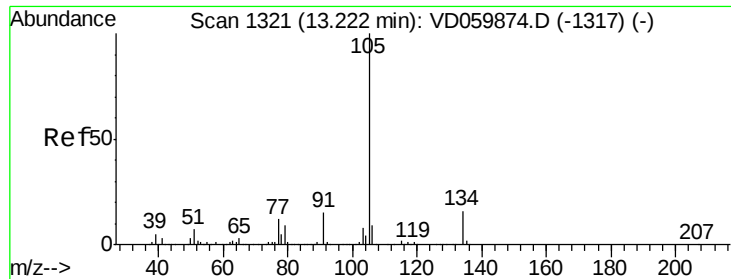
Delta R.T. -0.01 min

Lab File: VD059970.D

Acq: 5 Sep 2018 15:39

Tgt Ion:	105	Resp:	759371
Ion Ratio	Lower	Upper	
105	100		
120	42.5	21.8	65.3





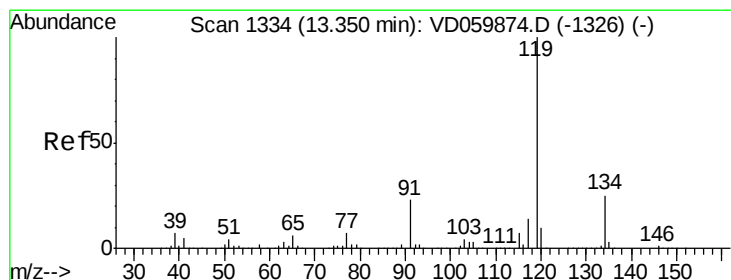
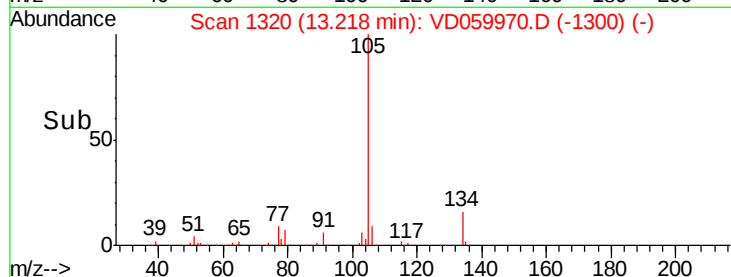
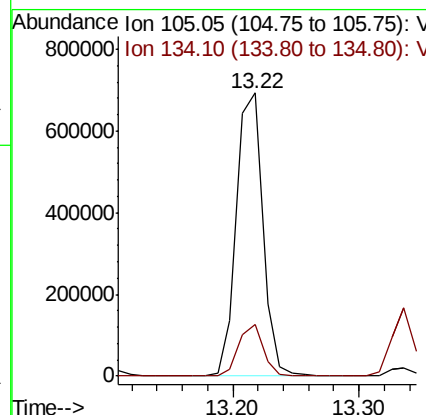
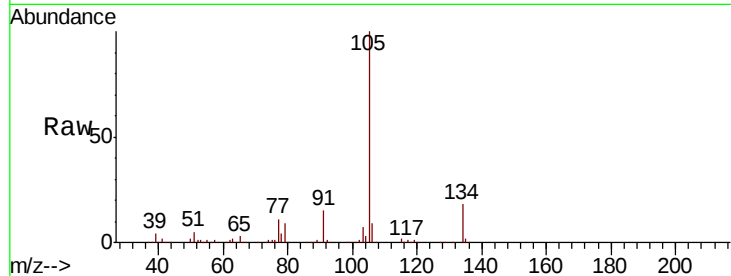
#85
 sec-Butylbenzene
 Concen: 20.35 ug/l
 RT: 13.22 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0905SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	997396		
134	18.2	8.2	24.4	

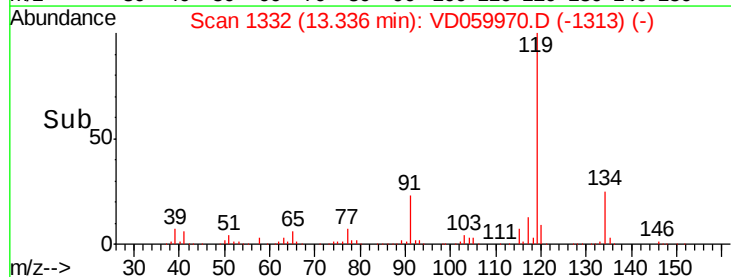
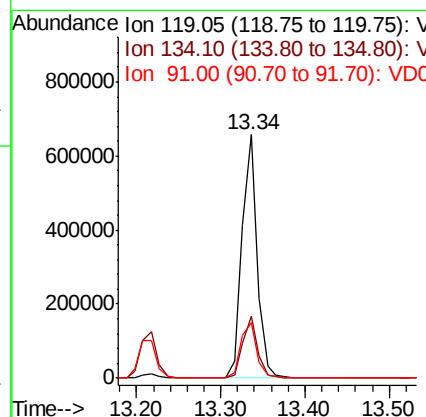
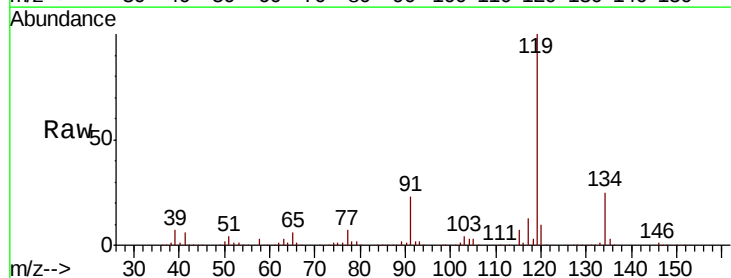
Manual Integrations
 APPROVED

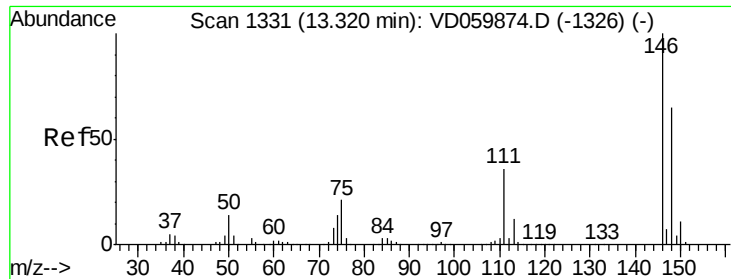
apatel
 9/6/2018 2:16:51 PM



#86
 p-Isopropyltoluene
 Concen: 20.50 ug/l
 RT: 13.34 min Scan# 1332
 Delta R.T. -0.01 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	817011		
134	25.4	12.7	38.1	
91	22.8	11.7	35.0	





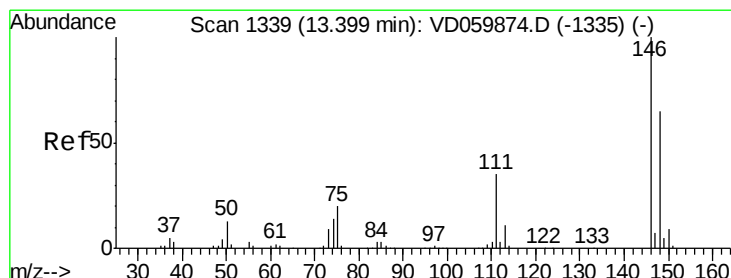
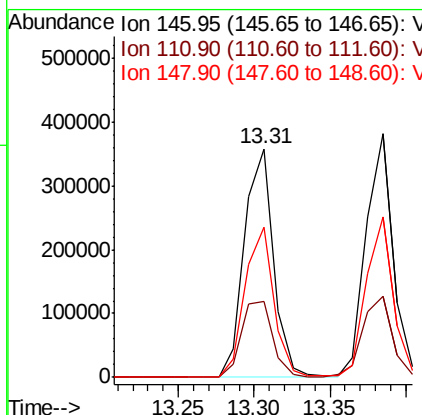
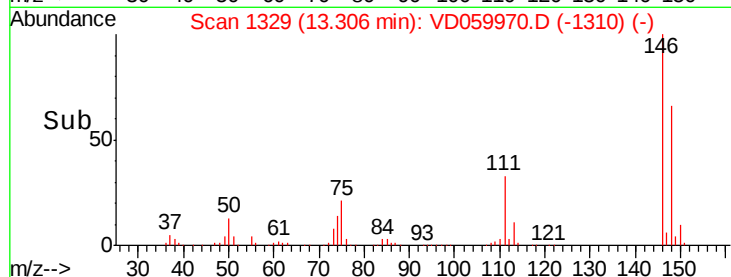
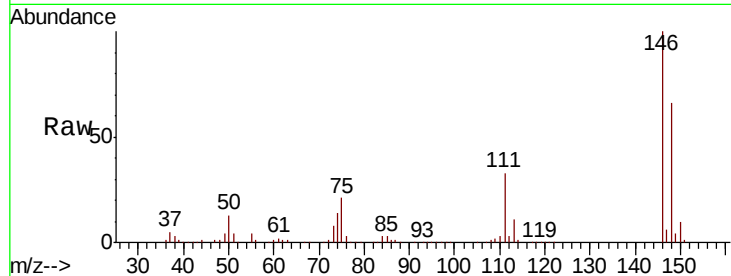
#87
 1,3-Dichlorobenzene
 Concen: 21.14 ug/l
 RT: 13.31 min Scan# 1329
 Delta R.T. -0.01 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0905SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	33.4	17.9	53.7
148	65.9	32.4	97.0

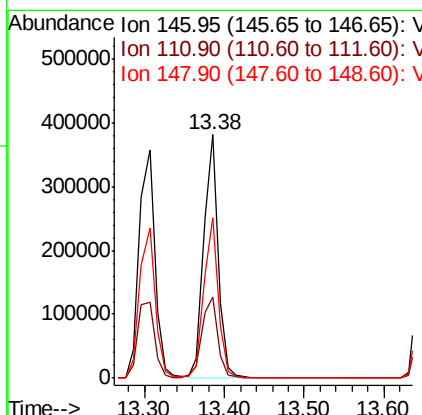
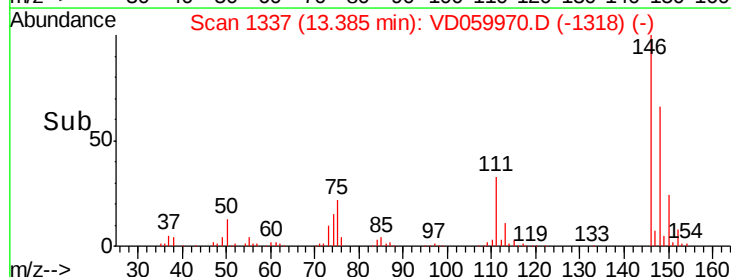
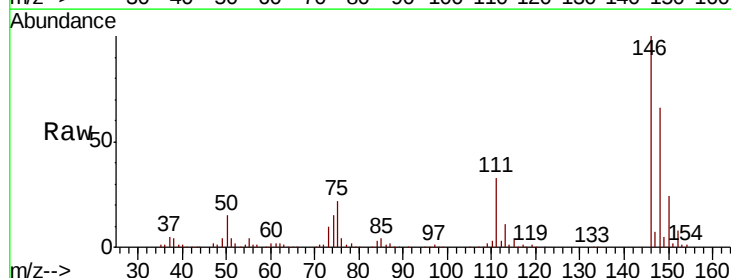
Manual Integrations
 APPROVED

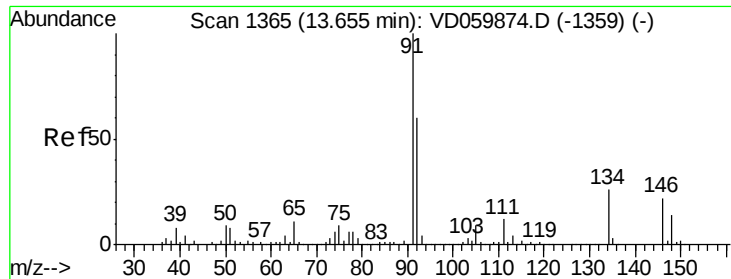
apatel
 9/6/2018 2:16:51 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.14 ug/l
 RT: 13.38 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.0	17.5	52.6
148	65.7	32.5	97.5





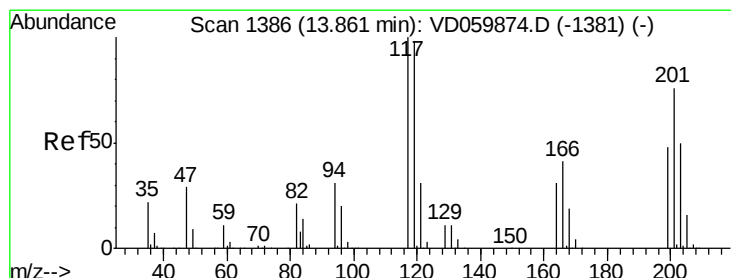
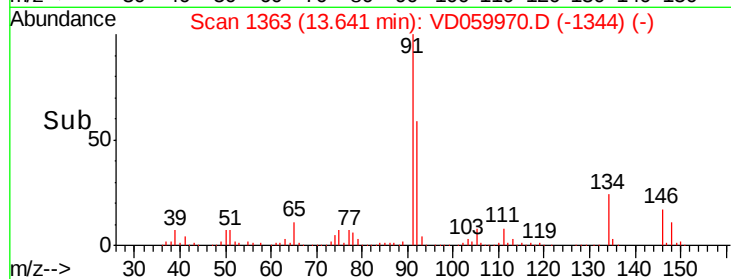
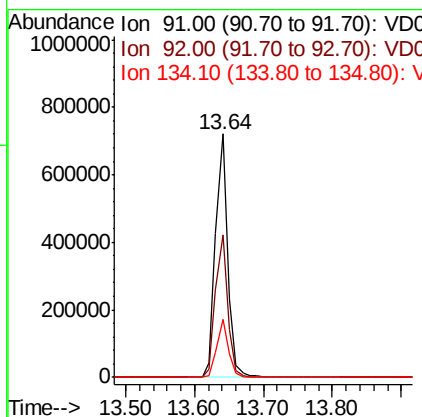
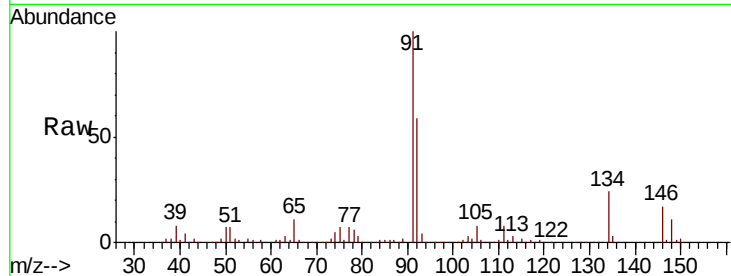
#89
n-Butylbenzene
Concen: 20.50 ug/l
RT: 13.64 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Instrument :
MSVOA_D
ClientSampleId :
VD0905SBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	58.7	30.0	90.1
134	24.0	12.8	38.4

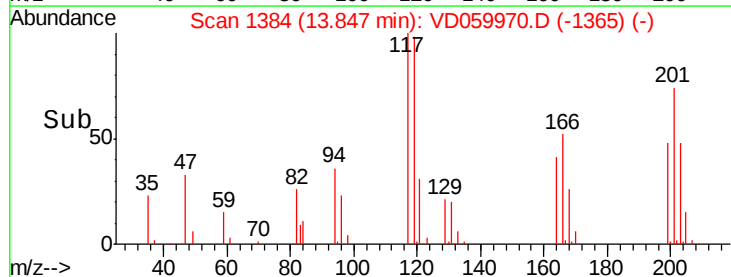
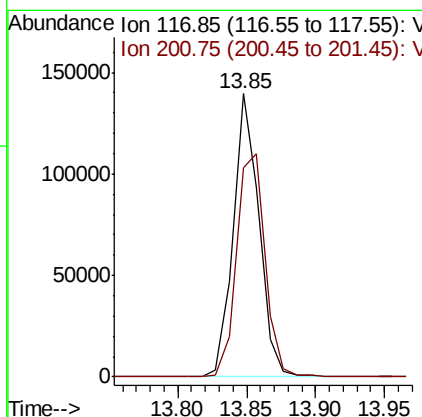
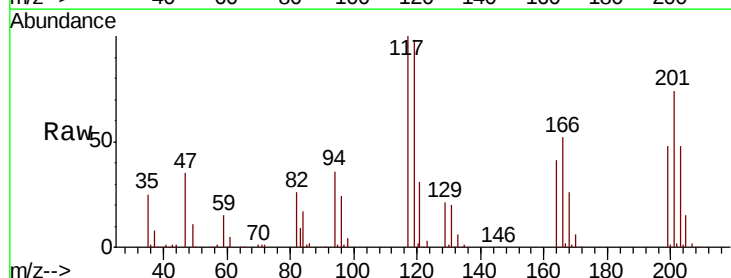
Manual Integrations
APPROVED

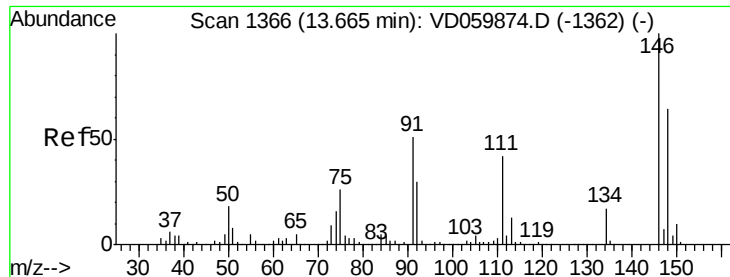
apatel
9/6/2018 2:16:51 PM



#90
Hexachloroethane
Concen: 16.93 ug/l
RT: 13.85 min Scan# 1384
Delta R.T. -0.01 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Lower	Upper
117	100		
201	74.0	38.1	114.5





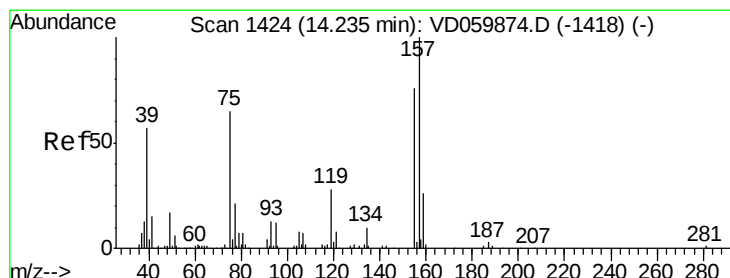
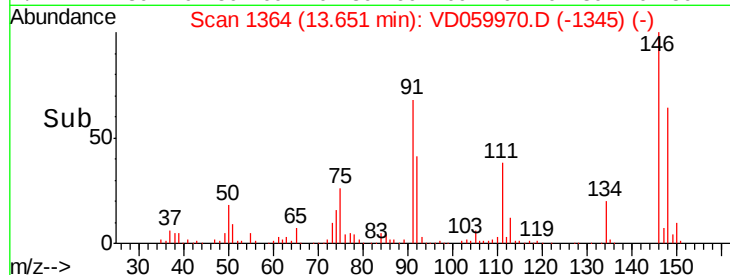
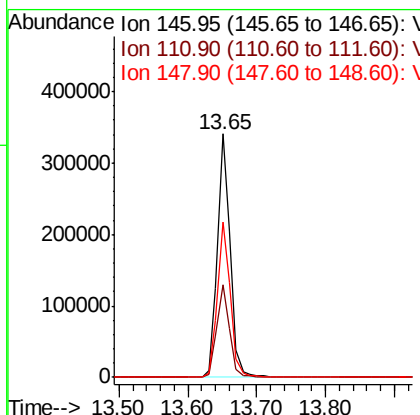
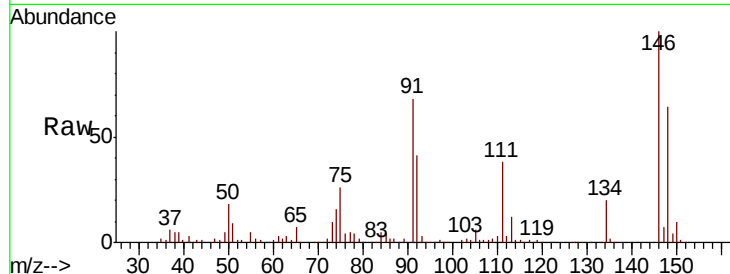
#91
 1,2-Dichlorobenzene
 Concen: 22.65 ug/l
 RT: 13.65 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0905SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	438695		
111	38.2	21.1	63.1	
148	63.6	32.2	96.6	

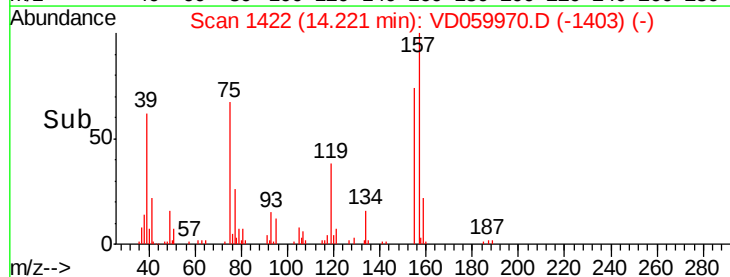
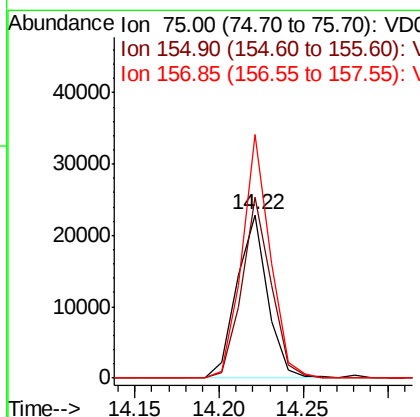
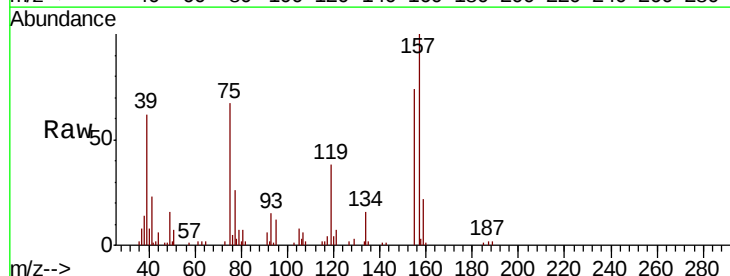
Manual Integrations
 APPROVED

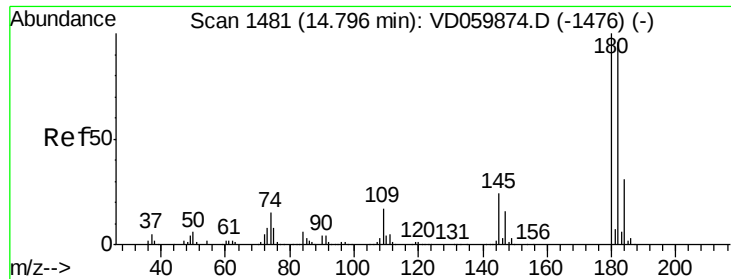
apatel
 9/6/2018 2:16:51 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.74 ug/l
 RT: 14.22 min Scan# 1422
 Delta R.T. -0.01 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	29035		
155	110.6	58.2	174.6	
157	149.2	76.8	230.4	





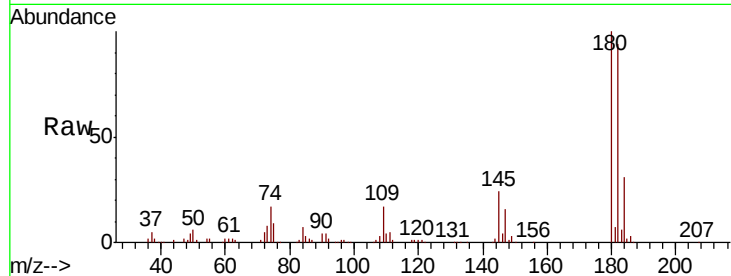
#93
 1,2,4-Trichlorobenzene
 Concen: 20.30 ug/l
 RT: 14.78 min Scan# 1479
 Delta R.T. -0.01 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0905SBSD01

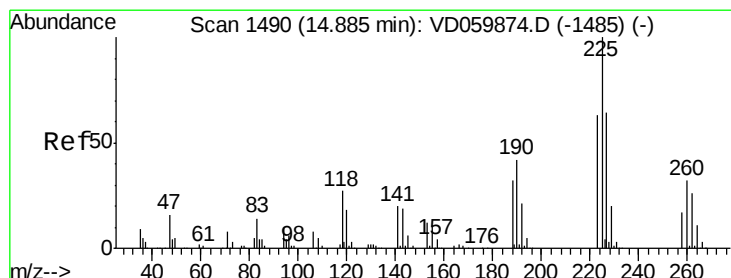
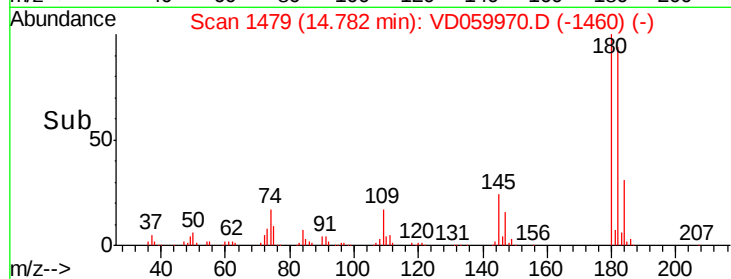
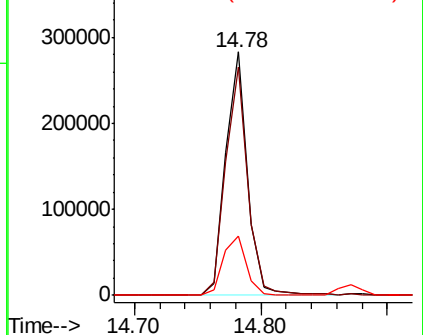
Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	93.8	47.9	143.7	
145	24.1	12.2	36.4	

Manual Integrations
 APPROVED

apatel
 9/6/2018 2:16:51 PM

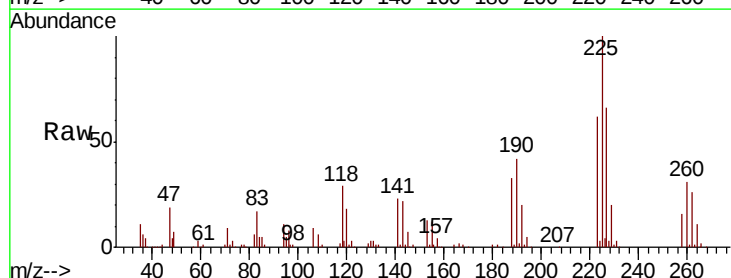


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

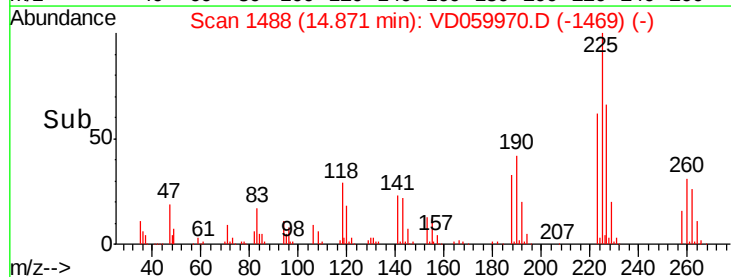
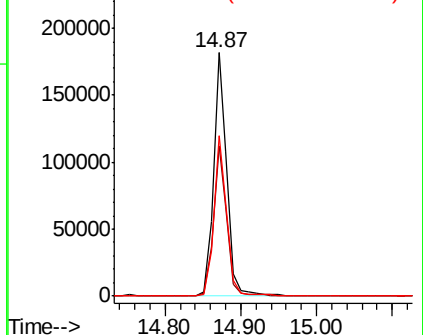


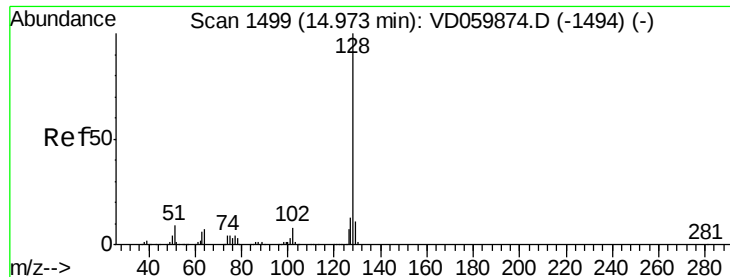
#94
 Hexachlorobutadiene
 Concen: 20.78 ug/l
 RT: 14.87 min Scan# 1488
 Delta R.T. -0.01 min
 Lab File: VD059970.D
 Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	61.9	31.6	94.8	
227	65.7	32.0	96.0	



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





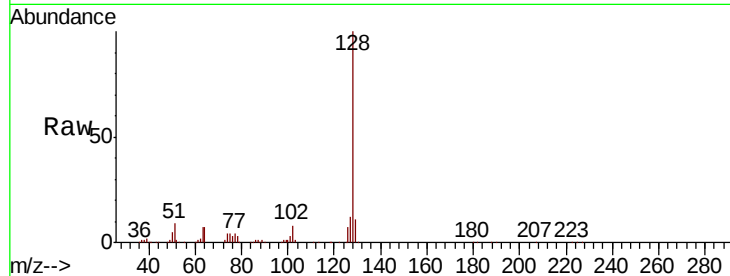
#95
Naphthalene
Concen: 20.25 ug/l
RT: 14.96 min Scan# 1497
Delta R.T. -0.01 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Instrument :
MSVOA_D
ClientSampleId :
VD0905SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	513179		
127	12.1		10.0	15.0
129	10.8		8.6	13.0

Manual Integrations
APPROVED

apatel
9/6/2018 2:16:51 PM

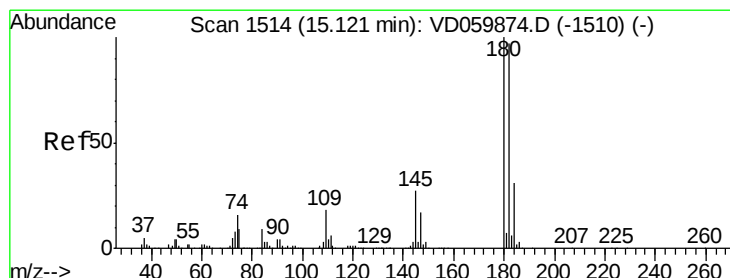
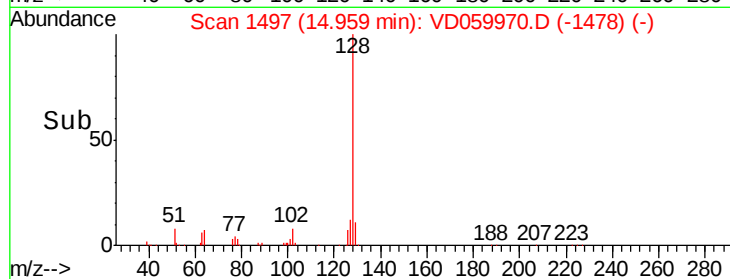
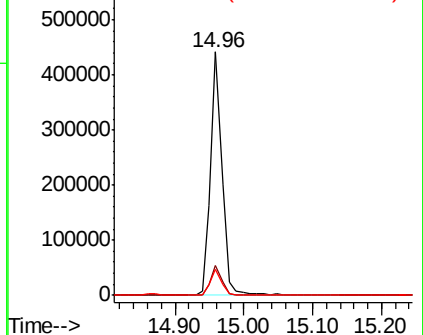


Abundance

Ion 128.00 (127.70 to 128.70): V

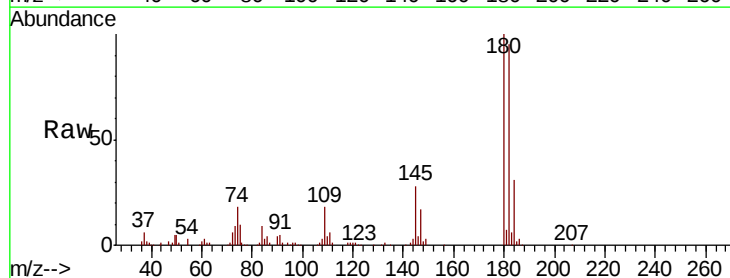
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 20.59 ug/l
RT: 15.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VD059970.D
Acq: 5 Sep 2018 15:39

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	292037		
182	94.9		48.6	145.8
145	27.7		13.6	40.8



Abundance

Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

