

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122618\
 Data File : VD060709.D
 Acq On : 26 Dec 2018 10:28
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

apatel
 12/27/2018 10:47:55 AM

Quant Time: Dec 27 01:55:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 17:37:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	1725618	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.42	114	2320778	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.27	117	1925355	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	981275	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.76	65	614721	51.55	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	103.10%	
35) Dibromofluoromethane	6.31	113	949844	55.92	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	111.84%	
50) Toluene-d8	9.43	98	2667422	52.63	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	105.26%	
62) 4-Bromofluorobenzene	12.41	95	959757	54.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.14%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.61	85	1073197	48.673	ug/l	100
3) Chloromethane	1.78	50	876311	43.185	ug/l	99
4) Vinyl Chloride	1.87	62	746961	46.364	ug/l	98
5) Bromomethane	2.17	94	172772	47.875	ug/l	97
6) Chloroethane	2.27	64	224121	46.614	ug/l	98
7) Trichlorofluoromethane	2.52	101	822995	45.927	ug/l	99
8) Diethyl Ether	2.84	74	143291	47.794	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.10	101	538852	46.358	ug/l	98
10) Methyl Iodide	3.25	142	597583	48.918	ug/l	98
11) Tert butyl alcohol	3.96	59	131602	264.058	ug/l	97
12) 1,1-Dichloroethene	3.08	96	433620	45.401	ug/l	99
13) Acrolein	2.98	56	124594	245.324	ug/l	94
14) Allyl chloride	3.53	41	811655	46.314	ug/l	98
15) Acrylonitrile	4.08	53	696263	240.636	ug/l	98
16) Acetone	3.16	43	595611	285.997	ug/l	97
17) Carbon Disulfide	3.32	76	1332731	43.693	ug/l	99
18) Methyl Acetate	3.55	43	233791	45.297	ug/l	99
19) Methyl tert-butyl Ether	4.11	73	1189552	49.092	ug/l	100
20) Methylene Chloride	3.72	84	995983	46.051	ug/l	97
21) trans-1,2-Dichloroethene	4.10	96	930896	47.593	ug/l	98
22) Diisopropyl ether	4.84	45	2951242	49.598	ug/l	96
23) Vinyl Acetate	4.79	43	6983830	242.597	ug/l	100
24) 1,1-Dichloroethane	4.74	63	1528089	48.824	ug/l	100
25) 2-Butanone	5.60	43	1048805	263.177	ug/l	100
26) 2,2-Dichloropropane	5.57	77	1209364	48.951	ug/l	99
27) cis-1,2-Dichloroethene	5.58	96	955067	48.101	ug/l	98
28) Bromochloromethane	5.91	49	724118	54.766	ug/l	99
29) Tetrahydrofuran	5.94	42	532283	235.608	ug/l	99
30) Chloroform	6.08	83	1529201	48.557	ug/l	100
31) Cyclohexane	6.35	56	1373835	45.613	ug/l	98
32) 1,1,1-Trichloroethane	6.28	97	1287095	49.399	ug/l	99
36) 1,1-Dichloropropene	6.51	75	1154995	48.331	ug/l	98
37) Ethyl Acetate	5.68	43	505374	50.564	ug/l	97
38) Carbon Tetrachloride	6.49	117	1044212	49.529	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122618\
 Data File : VD060709.D
 Acq On : 26 Dec 2018 10:28
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

apatel
 12/27/2018 10:47:55 AM

Quant Time: Dec 27 01:55:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 17:37:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.02	83	1345973	49.384	ug/l	99
40) Benzene	6.77	78	2972148	48.148	ug/l	98
41) Methacrylonitrile	5.93	41	325807m	58.934	ug/l	
42) 1,2-Dichloroethane	6.87	62	746839	48.754	ug/l	99
43) Isopropyl Acetate	8.33	43	636202	49.603	ug/l	98
44) Trichloroethene	7.72	130	920443	50.379	ug/l	95
45) 1,2-Dichloropropane	8.08	63	753067	49.745	ug/l	100
46) Dibromomethane	8.20	93	434467	50.285	ug/l	97
47) Bromodichloromethane	8.46	83	1041235	50.882	ug/l	100
48) Methyl methacrylate	8.22	41	396382	50.883	ug/l	97
49) 1,4-Dioxane	8.21	88	74723	1031.649	ug/l	94
51) 4-Methyl-2-Pentanone	9.32	43	1933000	245.989	ug/l	99
52) Toluene	9.53	92	1870941	48.348	ug/l	97
53) t-1,3-Dichloropropene	9.89	75	881692	51.644	ug/l	99
54) cis-1,3-Dichloropropene	9.08	75	1146025	51.285	ug/l	100
55) 1,1,2-Trichloroethane	10.16	97	528866	50.794	ug/l	96
56) Ethyl methacrylate	10.01	69	498431	51.539	ug/l	99
57) 1,3-Dichloropropane	10.36	76	820493	49.716	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.90	63	1289302	226.260	ug/l	98
59) 2-Hexanone	10.46	43	1494474	271.705	ug/l	98
60) Dibromochloromethane	10.62	129	693760	52.311	ug/l	97
61) 1,2-Dibromoethane	10.74	107	557098	51.585	ug/l	94
64) Tetrachloroethene	10.23	164	841345	48.213	ug/l	99
65) Chlorobenzene	11.30	112	2029918	47.720	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.40	131	683929	50.005	ug/l	97
67) Ethyl Benzene	11.41	91	3434104	47.139	ug/l	99
68) m/p-Xylenes	11.54	106	2415416	90.725	ug/l	100
69) o-Xylene	11.92	106	1207470	47.804	ug/l	94
70) Styrene	11.94	104	1943428	47.773	ug/l	98
71) Bromoform	12.10	173	460125	50.965	ug/l	97
73) Isopropylbenzene	12.26	105	3308553	47.356	ug/l	99
74) N-amyl acetate	12.12	43	828738	50.260	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.55	83	557607	49.239	ug/l	99
76) 1,2,3-Trichloropropane	12.58	75	554234	49.611	ug/l	100
77) Bromobenzene	12.53	156	900207	48.804	ug/l	90
78) n-propylbenzene	12.63	91	4234911	47.414	ug/l	98
79) 2-Chlorotoluene	12.69	91	2315466	48.400	ug/l	94
80) 1,3,5-Trimethylbenzene	12.77	105	2607149	48.326	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.32	75	160116	51.868	ug/l	97
82) 4-Chlorotoluene	12.79	91	2489830	45.918	ug/l	93
83) tert-Butylbenzene	13.03	119	2848432	46.393	ug/l	93
84) 1,2,4-Trimethylbenzene	13.08	105	2629454	47.323	ug/l	100
85) sec-Butylbenzene	13.21	105	3609041	48.200	ug/l	98
86) p-Isopropyltoluene	13.33	119	2888000	47.782	ug/l	98
87) 1,3-Dichlorobenzene	13.30	146	1604845	47.396	ug/l	95
88) 1,4-Dichlorobenzene	13.38	146	1567508	46.979	ug/l	96
89) n-Butylbenzene	13.63	91	2888793	46.771	ug/l	97
90) Hexachloroethane	13.85	117	761462	51.283	ug/l	91
91) 1,2-Dichlorobenzene	13.65	146	1257883	46.310	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.21	75	66676	50.117	ug/l	77

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122618\
Data File : VD060709.D
Acq On : 26 Dec 2018 10:28
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

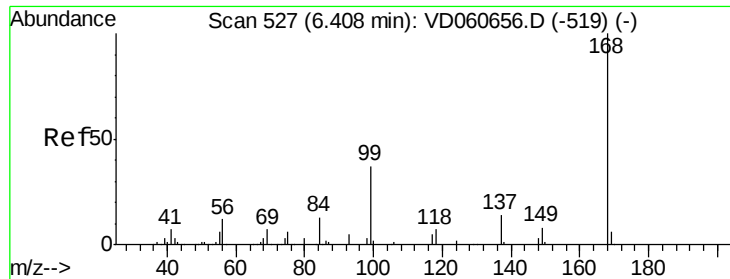
Manual Integrations
APPROVED

apatel
12/27/2018 10:47:55 AM

Quant Time: Dec 27 01:55:28 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
Quant Title : SW846 8260
QLast Update : Fri Dec 21 17:37:47 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.77	180	1047883	48.483	ug/l	96
94) Hexachlorobutadiene	14.87	225	772744	48.370	ug/l	100
95) Naphthalene	14.96	128	1255450	48.873	ug/l	99
96) 1,2,3-Trichlorobenzene	15.10	180	835440	49.447	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.39 min Scan# 525

Delta R.T. -0.02 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 1725618

Ion Ratio Lower Upper

168 100

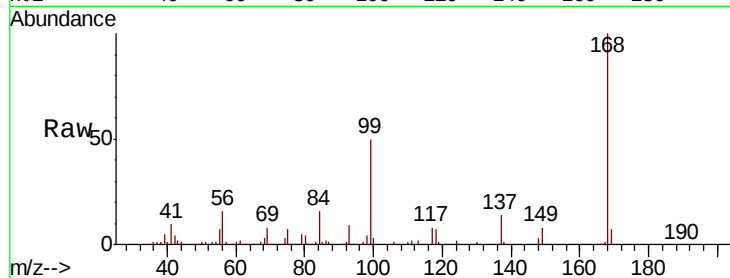
99 49.7 38.7 58.1

Manual Integrations

APPROVED

apatel

12/27/2018 10:47:55 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.39

600000

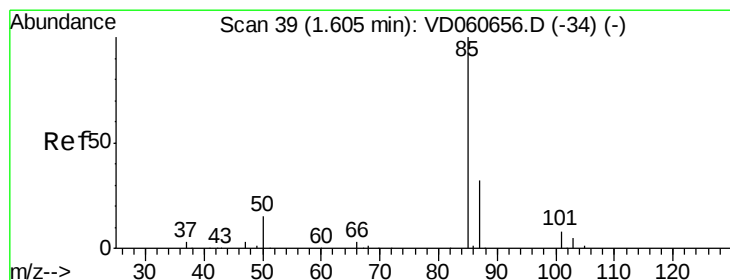
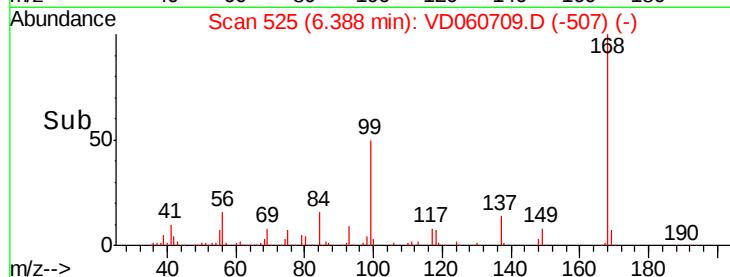
400000

200000

0

6.20 6.30 6.40 6.50 6.60

Time-->



#2

Dichlorodifluoromethane

Concen: 48.673 ug/l

RT: 1.61 min Scan# 39

Delta R.T. -0.00 min

Lab File: VD060709.D

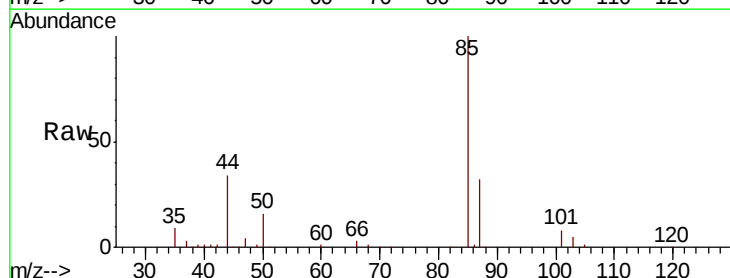
Acq: 26 Dec 2018 10:28

Tgt Ion: 85 Resp: 1073197

Ion Ratio Lower Upper

85 100

87 32.0 16.0 47.9



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.61

400000

300000

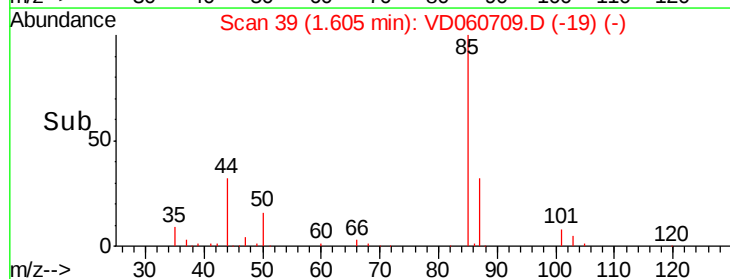
200000

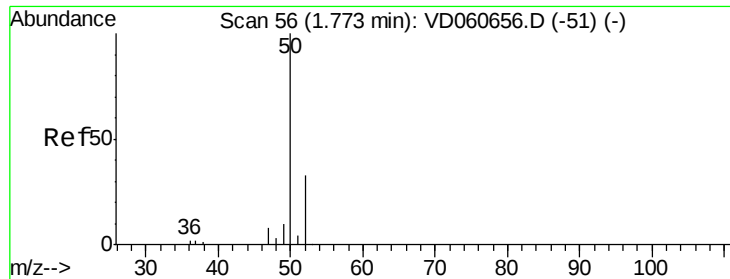
100000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 43.185 ug/l

RT: 1.78 min Scan# 57

Delta R.T. 0.01 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 876311

Ion Ratio Lower Upper

50 100

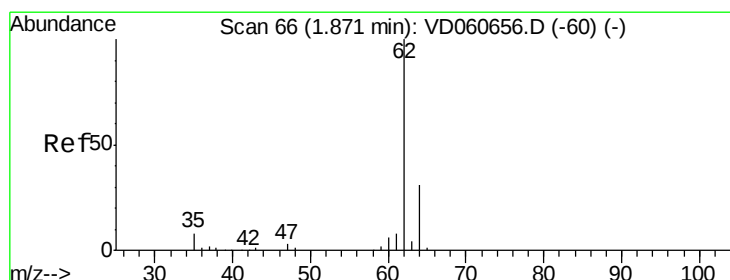
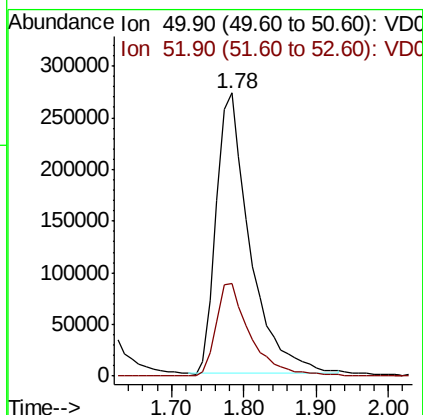
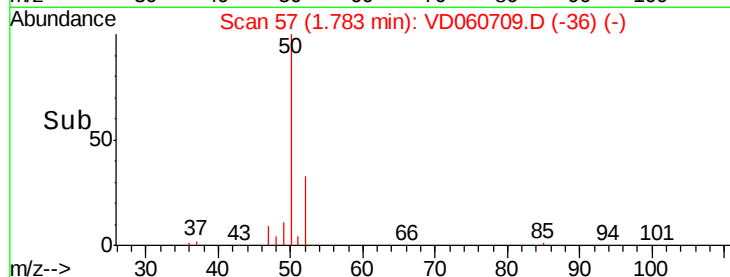
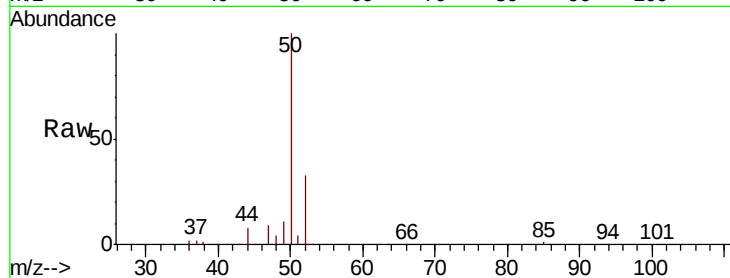
52 32.7 26.6 39.8

Manual Integrations

APPROVED

apatel

12/27/2018 10:47:55 AM



#4

Vinyl Chloride

Concen: 46.364 ug/l

RT: 1.87 min Scan# 66

Delta R.T. -0.00 min

Lab File: VD060709.D

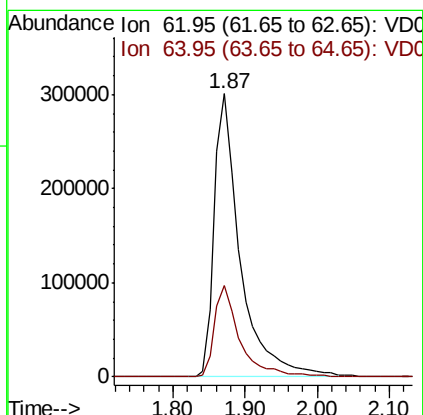
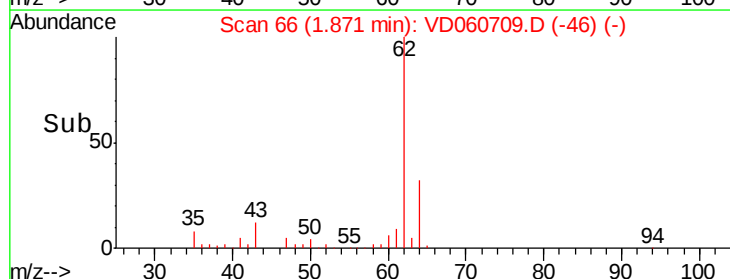
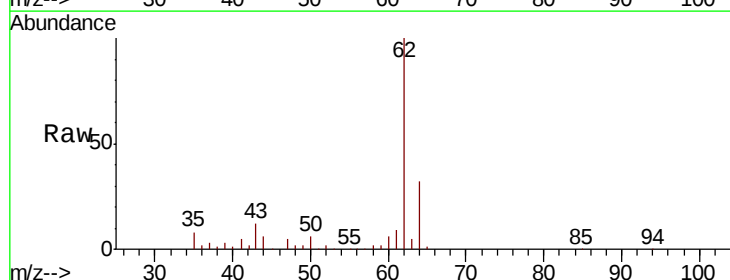
Acq: 26 Dec 2018 10:28

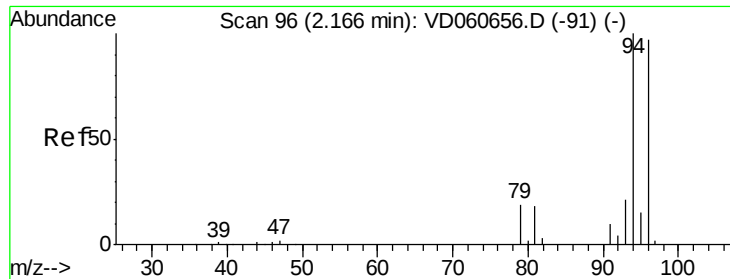
Tgt Ion: 62 Resp: 746961

Ion Ratio Lower Upper

62 100

64 32.2 25.0 37.6





#5

Bromomethane

Concen: 47.875 ug/l

RT: 2.17 min Scan# 96

Delta R.T. -0.00 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 172772

Ion Ratio Lower Upper

94 100

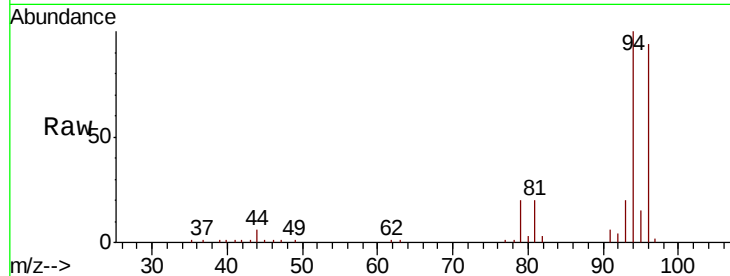
96 94.0 77.2 115.8

Manual Integrations

APPROVED

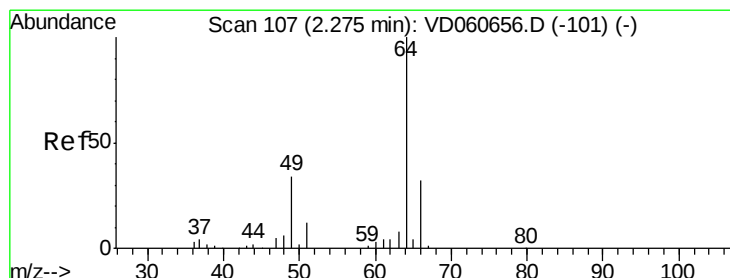
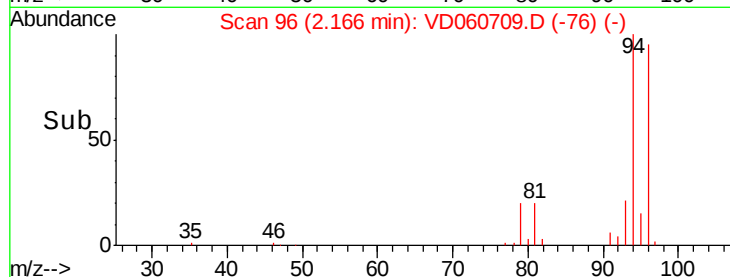
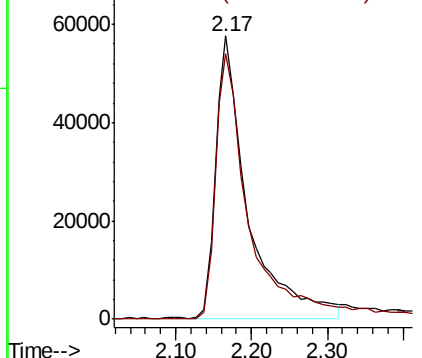
apatel

12/27/2018 10:47:55 AM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 46.614 ug/l

RT: 2.27 min Scan# 107

Delta R.T. -0.00 min

Lab File: VD060709.D

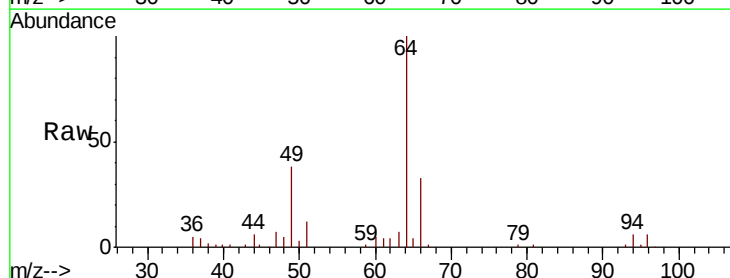
Acq: 26 Dec 2018 10:28

Tgt Ion: 64 Resp: 224121

Ion Ratio Lower Upper

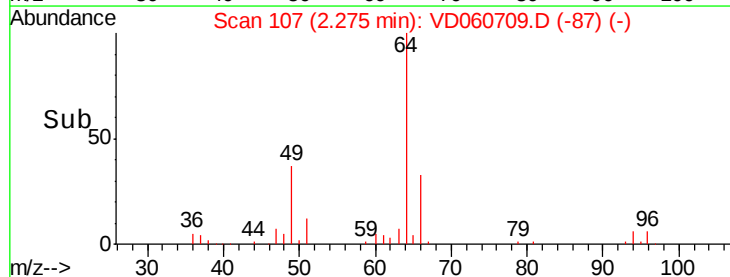
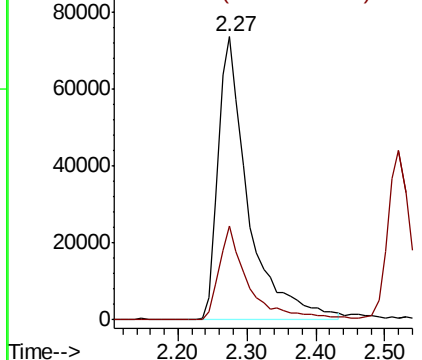
64 100

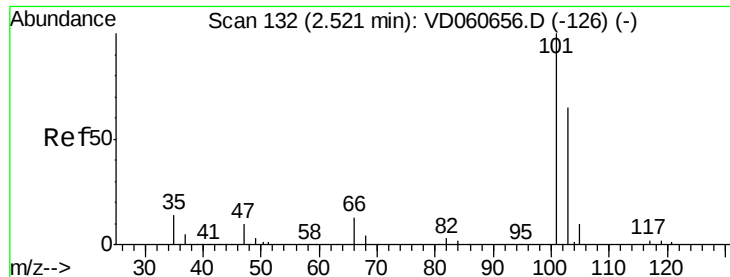
66 33.0 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

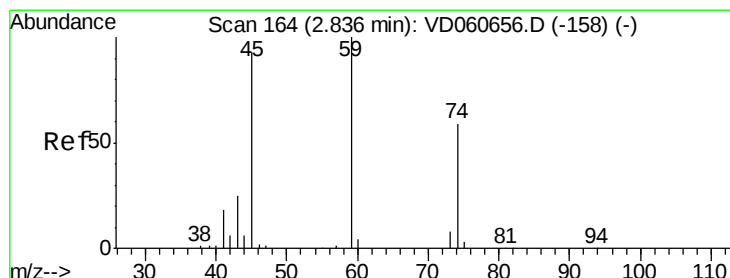
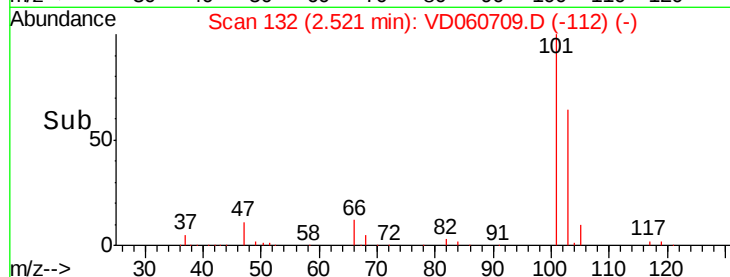
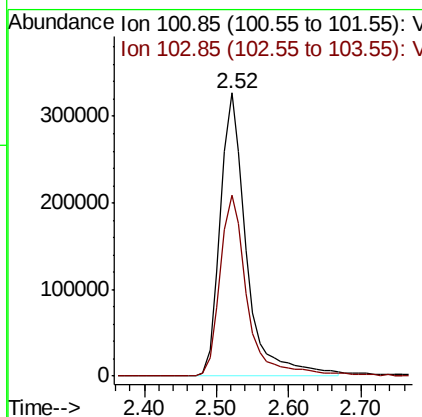
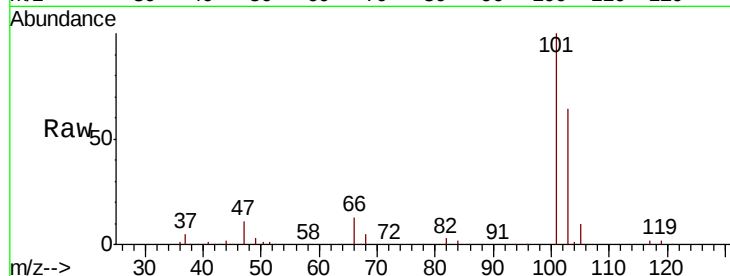
Trichlorofluoromethane
 Concen: 45.927 ug/l
 RT: 2.52 min Scan# 132
 Delta R.T. -0.00 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.9	77.9

Manual Integrations
 APPROVED

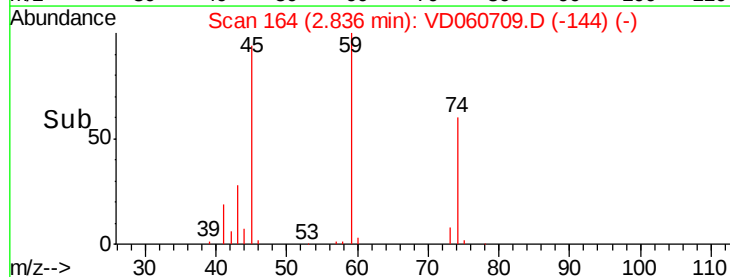
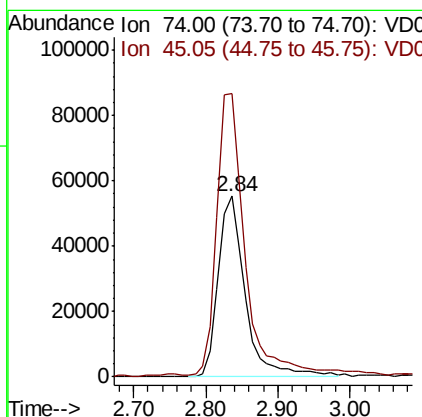
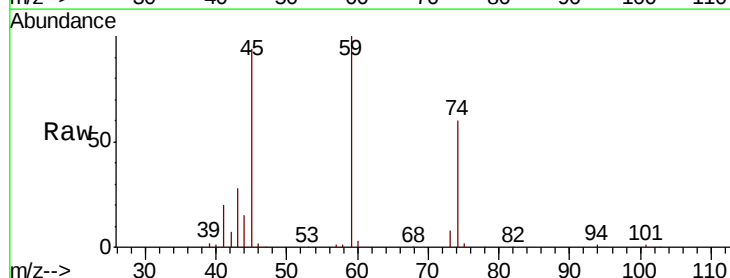
apatel
 12/27/2018 10:47:55 AM

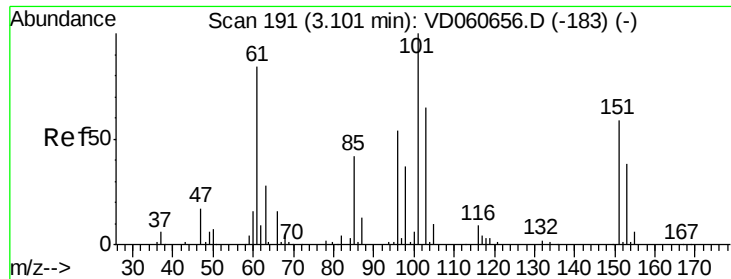


#8

Diethyl Ether
 Concen: 47.794 ug/l
 RT: 2.84 min Scan# 164
 Delta R.T. -0.00 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Tgt Ion	Ratio	Lower	Upper
74	100		
45	156.5	79.3	238.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.358 ug/l

RT: 3.10 min Scan# 191

Delta R.T. -0.00 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Instrument :

MSVOA_D

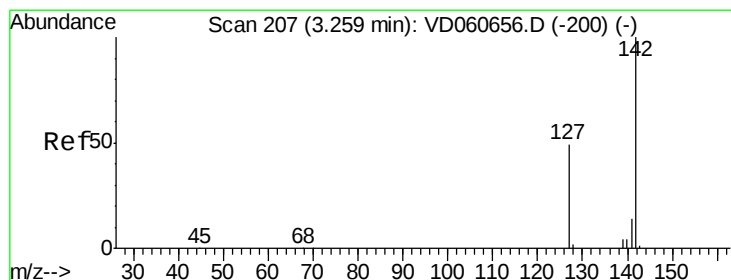
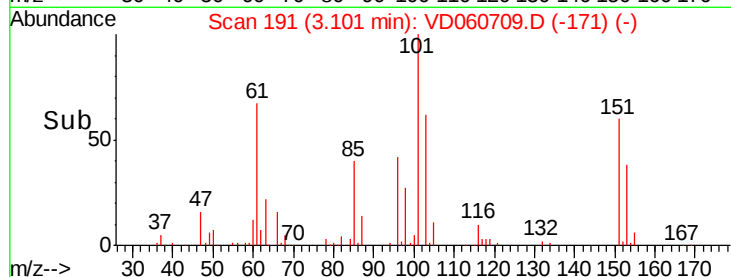
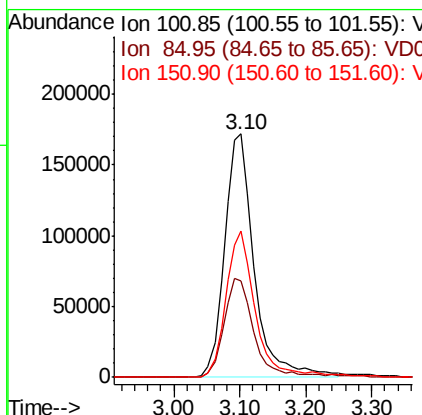
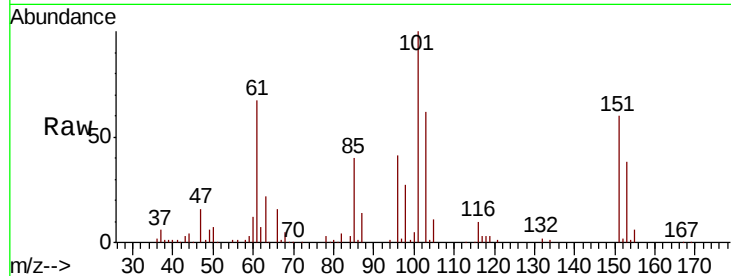
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	538852
Ion Ratio	Lower	Upper	
101	100		
85	39.6	33.4	50.0
151	60.2	47.5	71.3

Manual Integrations
APPROVED

apatel
12/27/2018 10:47:55 AM



#10

Methyl Iodide

Concen: 48.918 ug/l

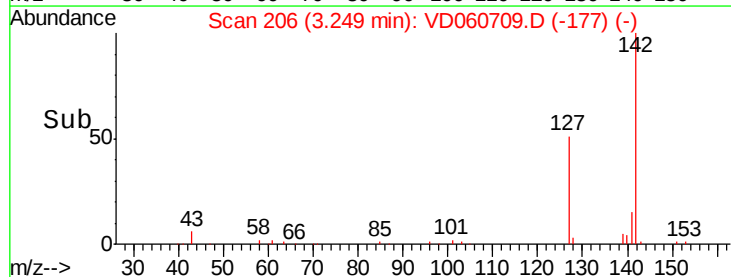
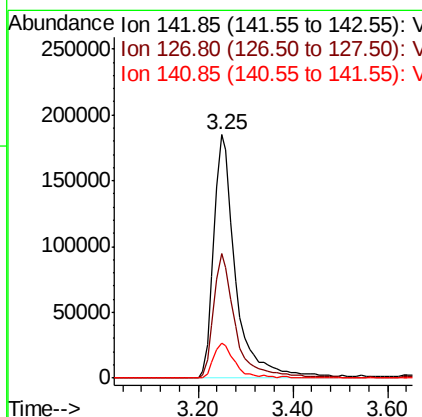
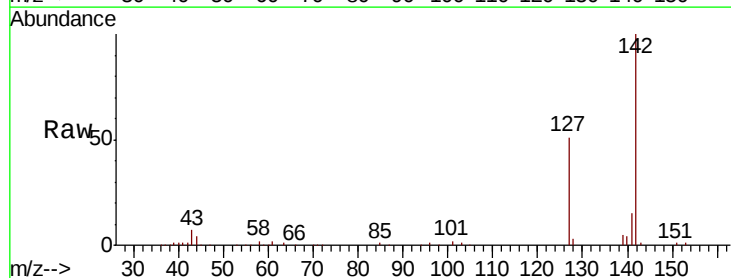
RT: 3.25 min Scan# 206

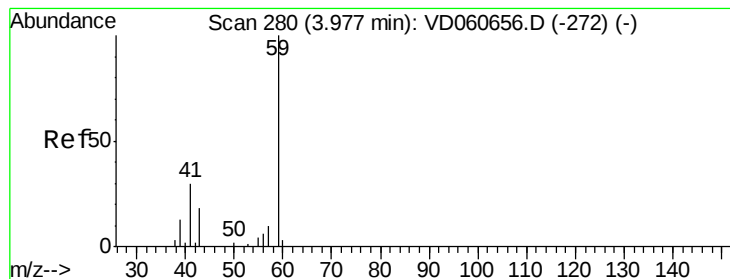
Delta R.T. -0.01 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Tgt Ion:	142	Resp:	597583
Ion Ratio	Lower	Upper	
142	100		
127	51.4	39.5	59.3
141	14.5	11.3	16.9





#11

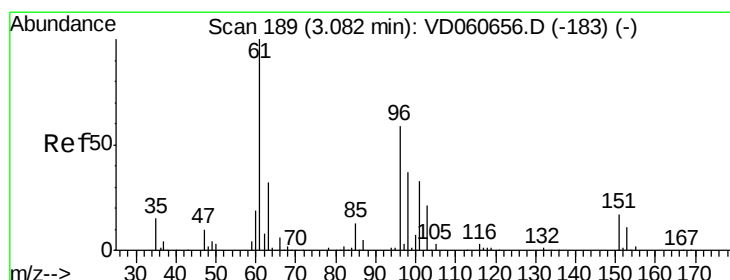
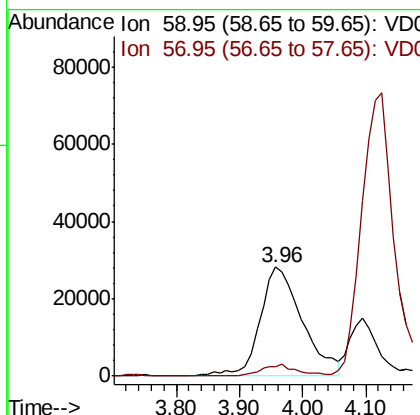
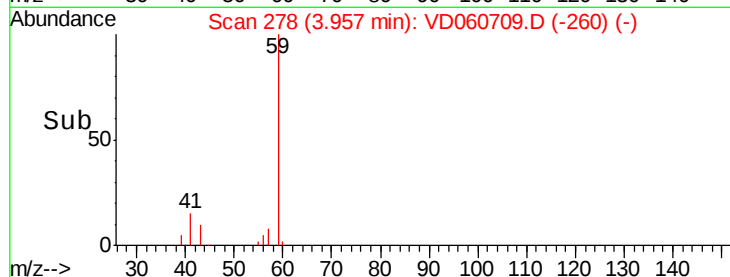
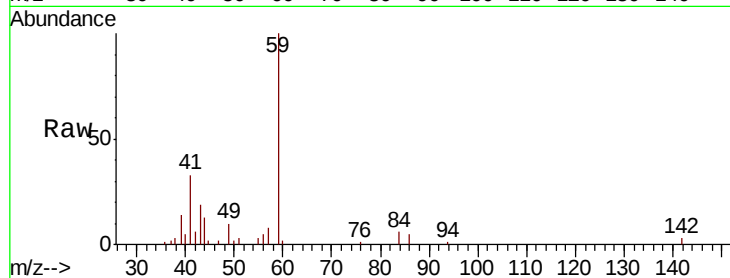
Tert butyl alcohol
Concen: 264.058 ug/l
RT: 3.96 min Scan# 278
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.5	7.8	11.6

Manual Integrations
APPROVED

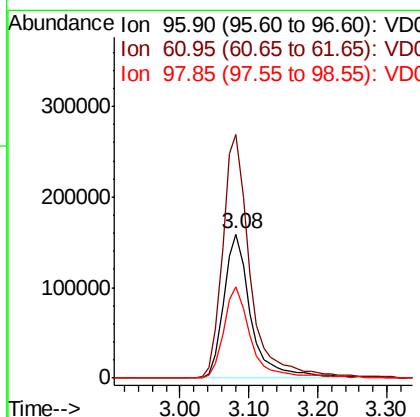
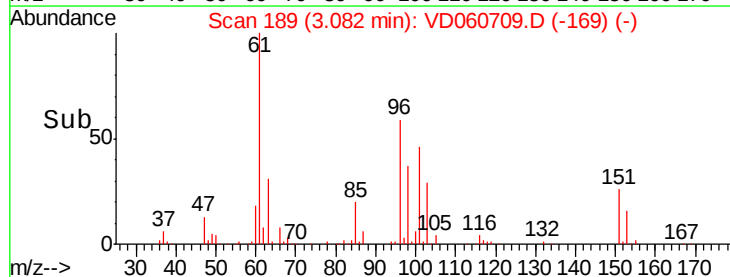
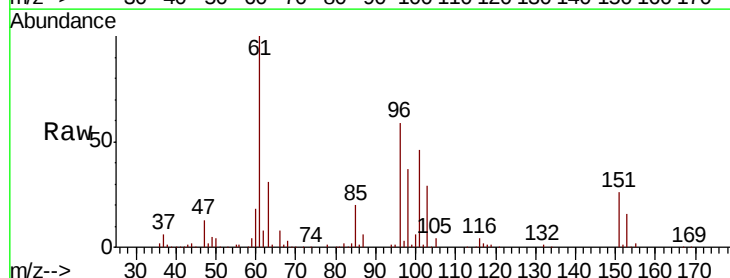
apatel
12/27/2018 10:47:55 AM

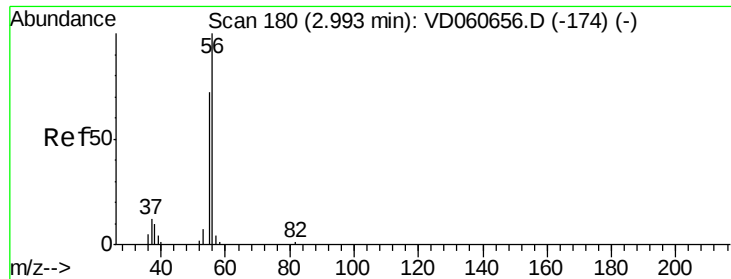


#12

1,1-Dichloroethene
Concen: 45.401 ug/l
RT: 3.08 min Scan# 189
Delta R.T. -0.00 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion	Ratio	Lower	Upper
96	100		
61	168.7	136.2	204.4
98	63.2	50.7	76.1





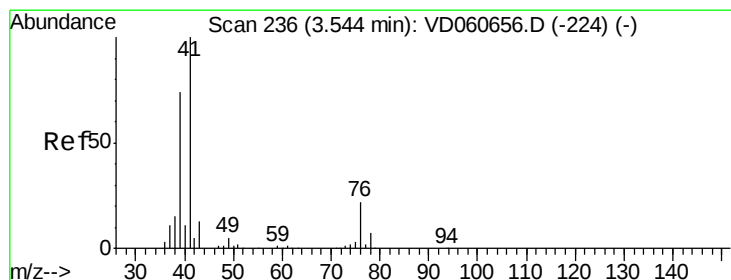
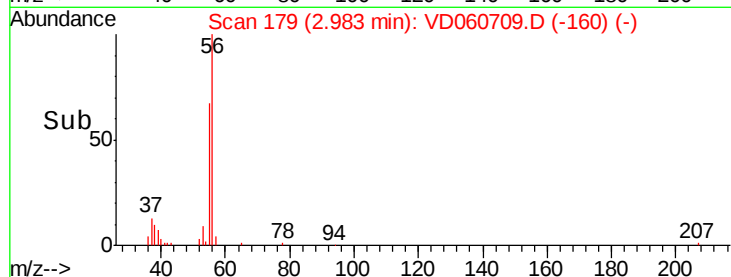
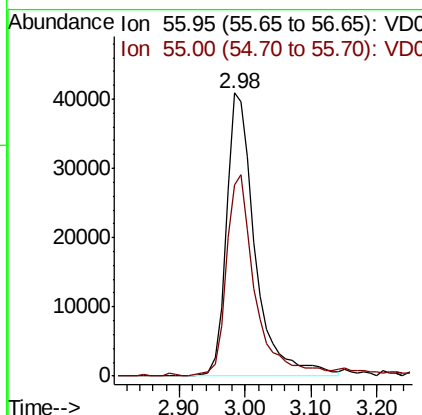
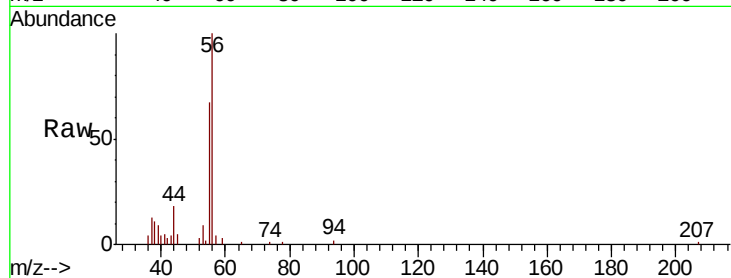
#13
Acrolein
Concen: 245.324 ug/l
RT: 2.98 min Scan# 179
Delta R.T. -0.01 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	56	Resp	124594
Ion Ratio	100	Lower	Upper
55	67.3	57.7	86.5

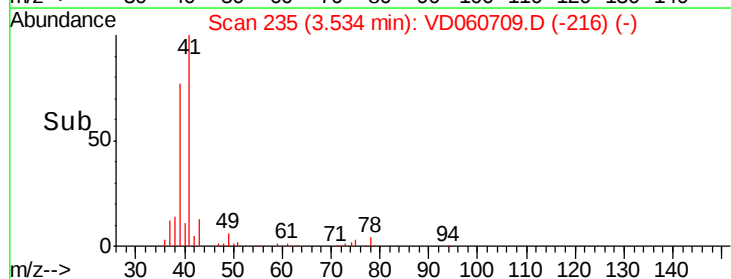
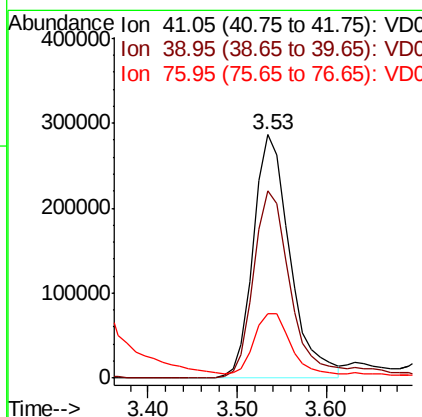
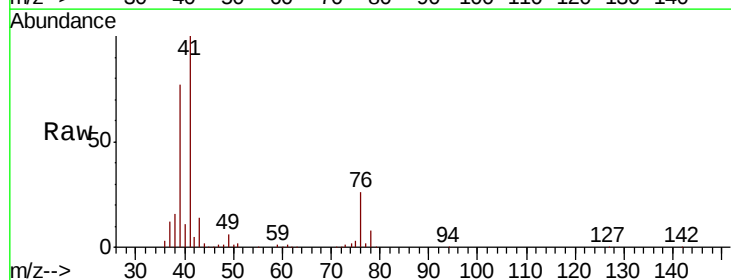
Manual Integrations
APPROVED

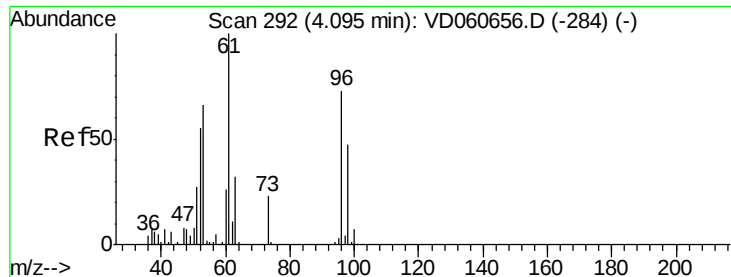
apatel
12/27/2018 10:47:55 AM



#14
Allyl chloride
Concen: 46.314 ug/l
RT: 3.53 min Scan# 235
Delta R.T. -0.01 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion	41	Resp	811655
Ion Ratio	100	Lower	Upper
39	76.8	59.6	89.4
76	26.4	21.8	32.6





#15

Acrylonitrile

Concen: 240.636 ug/l

RT: 4.08 min Scan# 290

Delta R.T. -0.02 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Instrument :

MSVOA_D

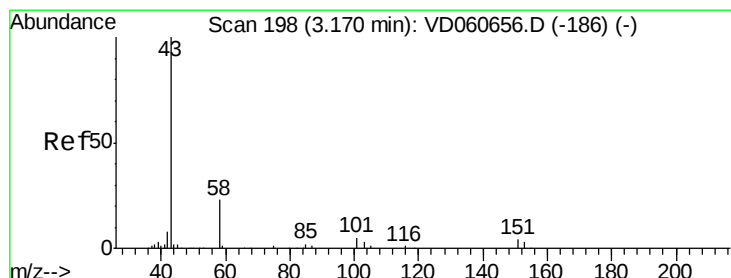
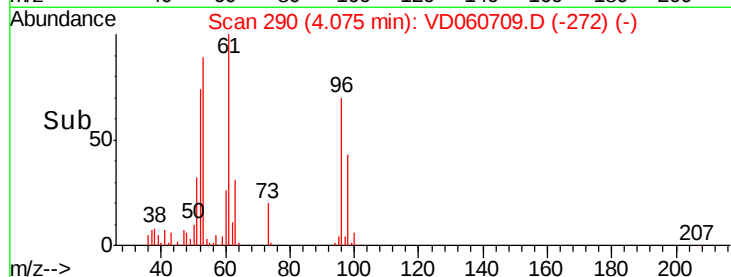
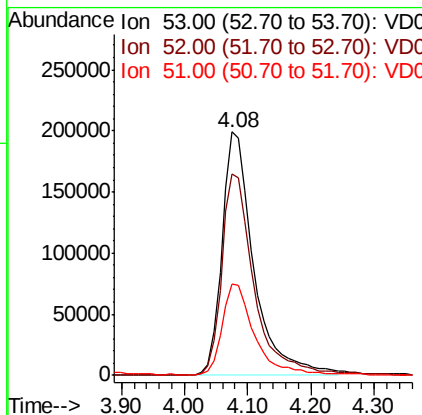
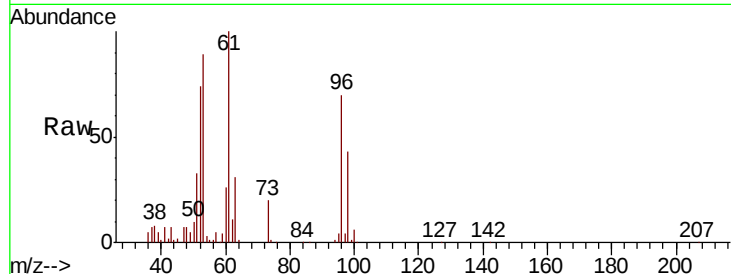
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	696263
Ion Ratio	Lower	Upper	
53	100		
52	82.8	66.7	100.1
51	37.5	32.7	49.1

Manual Integrations
APPROVED

apatel
12/27/2018 10:47:55 AM



#16

Acetone

Concen: 285.997 ug/l

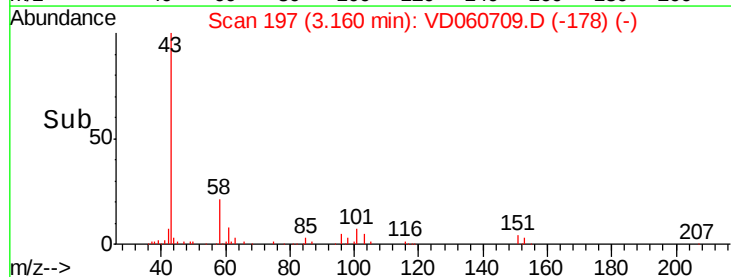
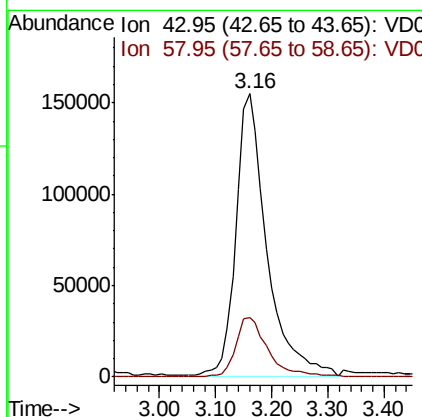
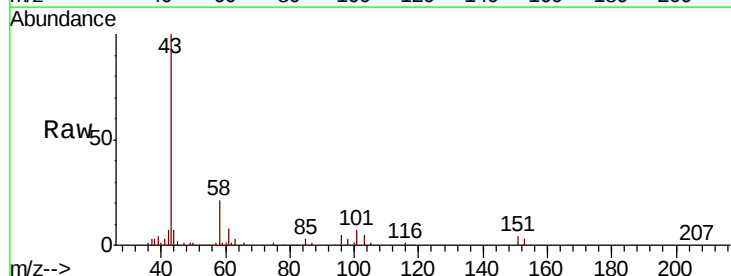
RT: 3.16 min Scan# 197

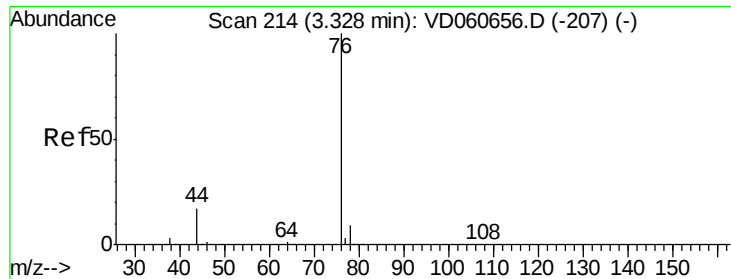
Delta R.T. -0.01 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Tgt Ion:	43	Resp:	595611
Ion Ratio	Lower	Upper	
43	100		
58	21.1	18.2	27.2





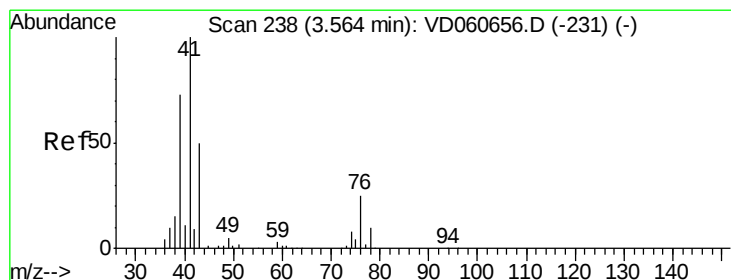
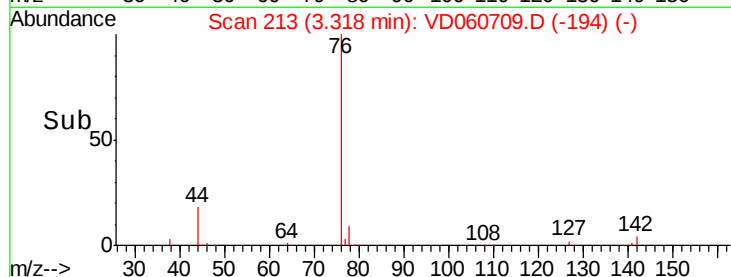
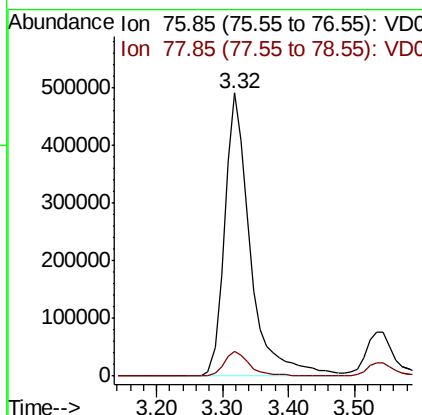
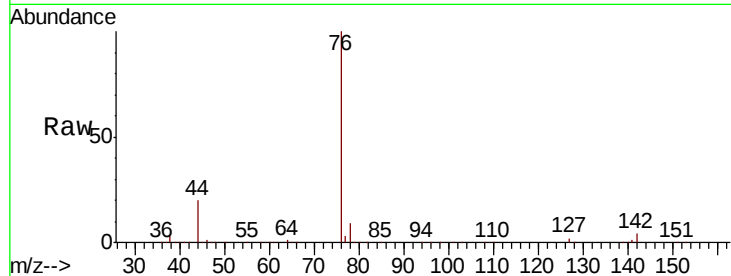
#17
Carbon Disulfide
Concen: 43.693 ug/l
RT: 3.32 min Scan# 213
Delta R.T. -0.01 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1332731
Ion Ratio Lower Upper
76 100
78 8.8 7.4 11.0

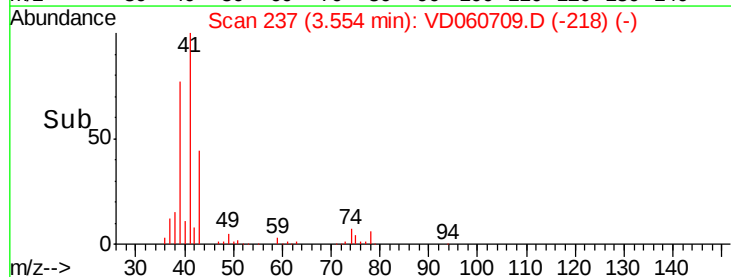
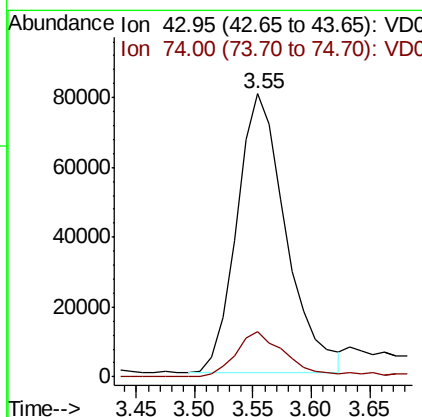
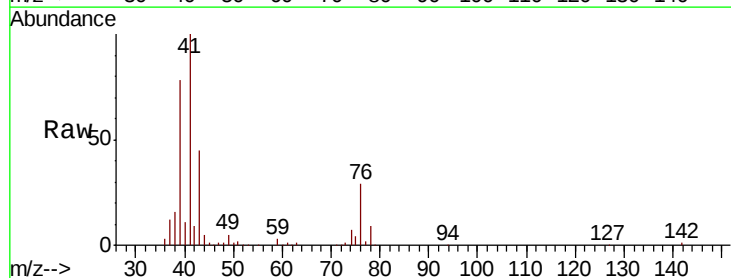
Manual Integrations
APPROVED

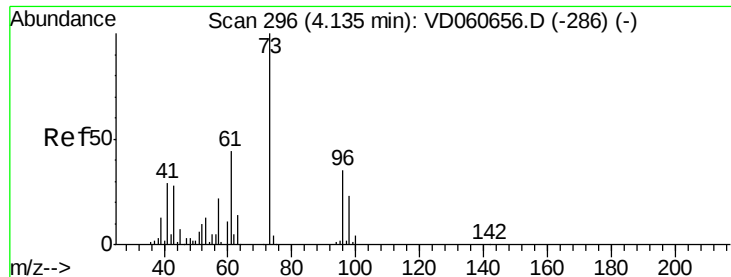
apatel
12/27/2018 10:47:55 AM



#18
Methyl Acetate
Concen: 45.297 ug/l
RT: 3.55 min Scan# 237
Delta R.T. -0.01 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion: 43 Resp: 233791
Ion Ratio Lower Upper
43 100
74 16.1 12.4 18.6





#19

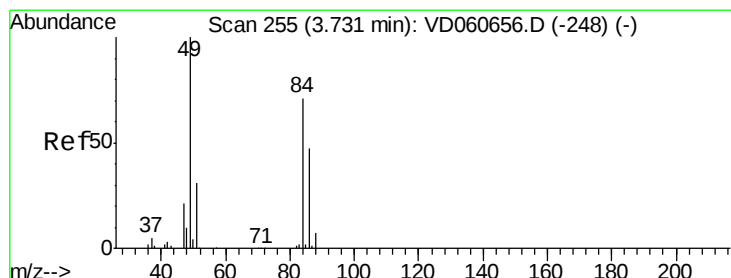
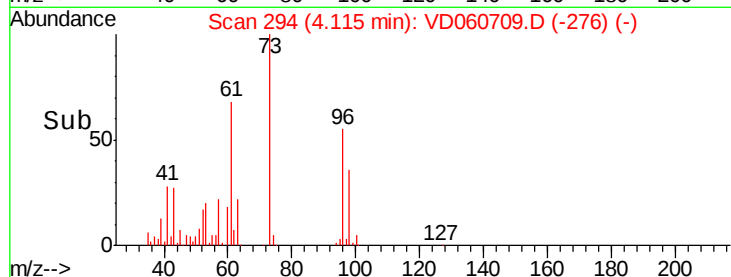
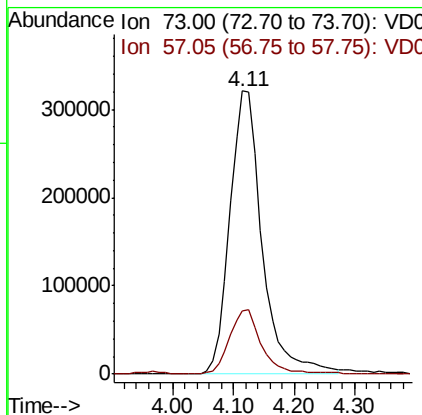
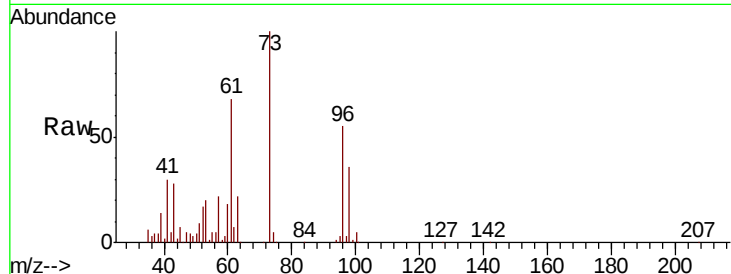
Methyl tert-butyl Ether
 Concen: 49.092 ug/l
 RT: 4.11 min Scan# 294
 Delta R.T. -0.02 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 73 Resp: 1189552
 Ion Ratio Lower Upper
 73 100
 57 22.2 17.6 26.4

Manual Integrations
 APPROVED

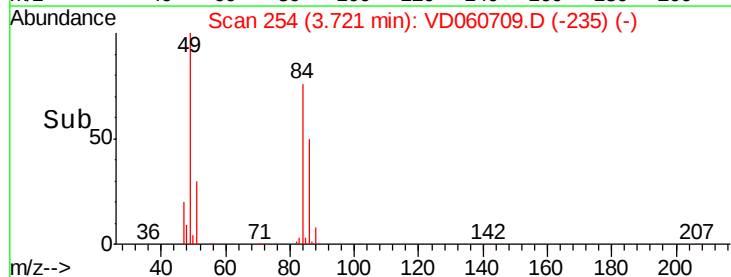
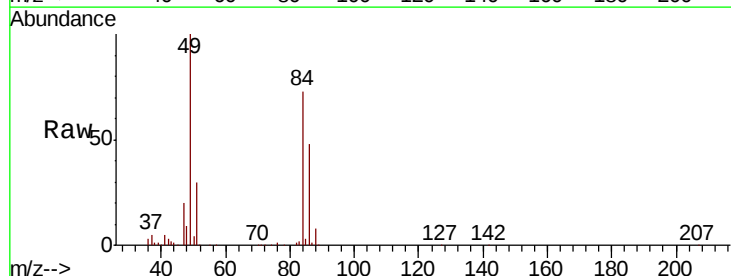
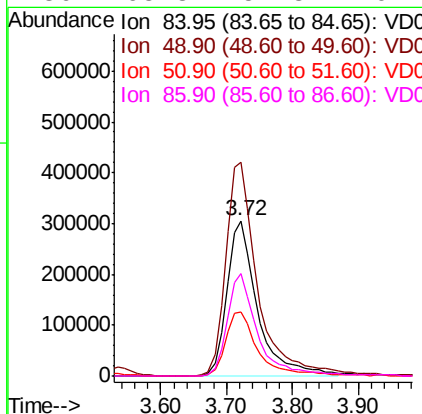
apatel
 12/27/2018 10:47:55 AM

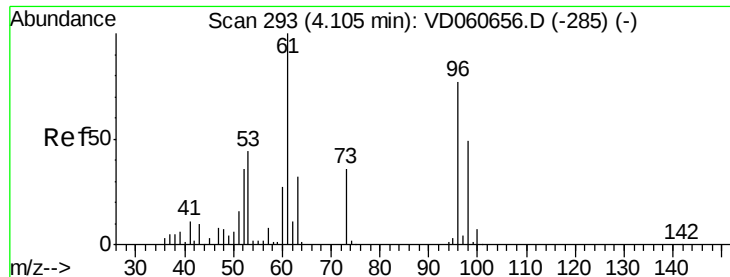


#20

Methylene Chloride
 Concen: 46.051 ug/l
 RT: 3.72 min Scan# 254
 Delta R.T. -0.01 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Tgt Ion: 84 Resp: 995983
 Ion Ratio Lower Upper
 84 100
 49 137.4 113.6 170.4
 51 41.5 34.7 52.1
 86 65.8 52.8 79.2





#21

trans-1,2-Dichloroethene

Concen: 47.593 ug/l

RT: 4.10 min Scan# 292

Delta R.T. -0.01 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Instrument :

MSVOA_D

ClientSampleID :

VSTDCCC050

Tot Ion: 96 Resp: 930896

Ion Ratio Lower Upper

96 100

61 127.3 104.2 156.2

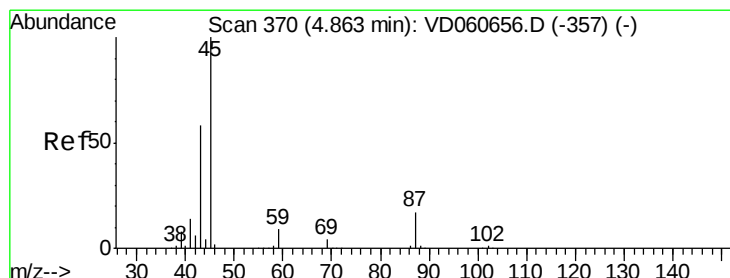
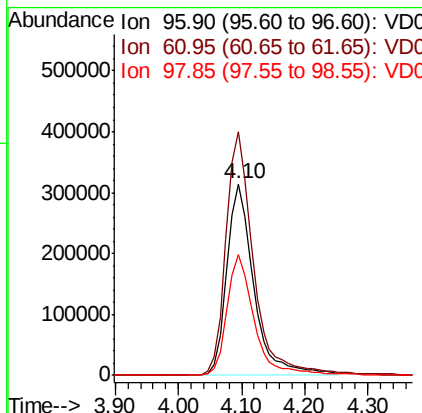
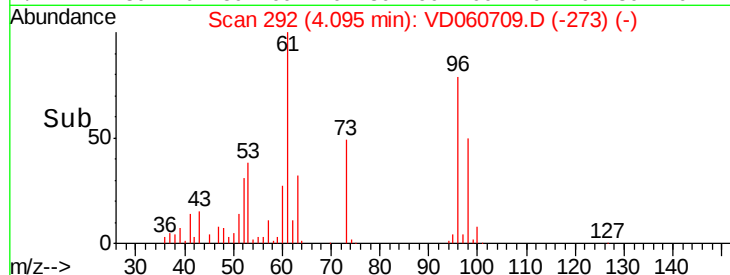
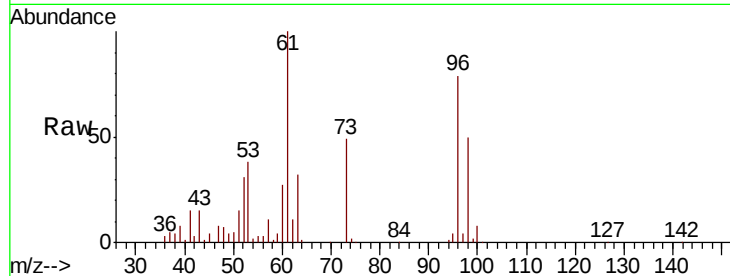
98 63.1 51.2 76.8

Manual Integrations

APPROVED

apatel

12/27/2018 10:47:55 AM



#22

Diisopropyl ether

Concen: 49.598 ug/l

RT: 4.84 min Scan# 368

Delta R.T. -0.02 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Tgt Ion: 45 Resp: 2951242

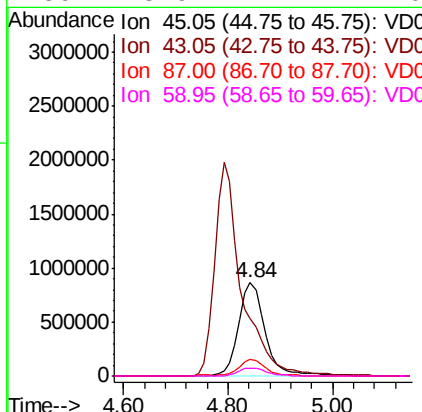
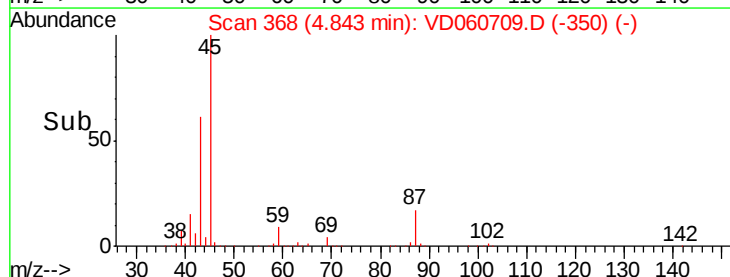
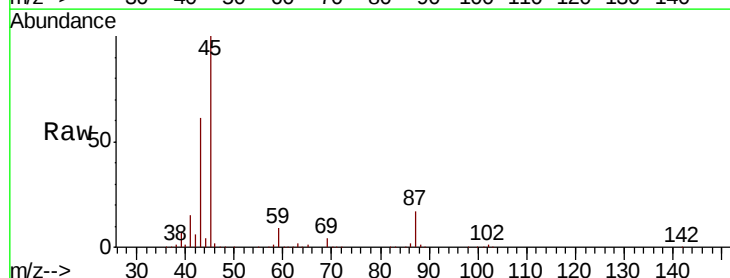
Ion Ratio Lower Upper

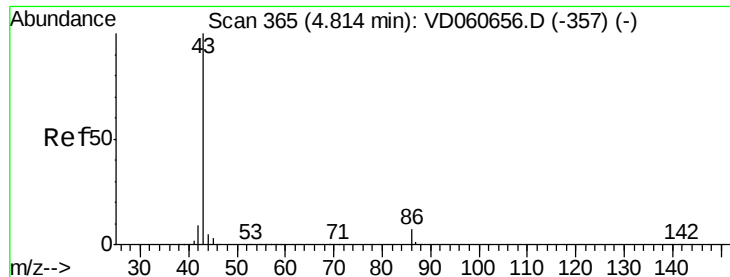
45 100

43 61.4 46.1 69.1

87 17.5 13.7 20.5

59 8.9 7.4 11.0





#23

Vinyl Acetate

Concen: 242.597 ug/l

RT: 4.79 min Scan# 363

Delta R.T. -0.02 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Instrument :

MSVOA_D

ClientSampleID :

VSTDCCC050

Tot Ion: 43 Resp: 6983830

Ion Ratio Lower Upper

43 100

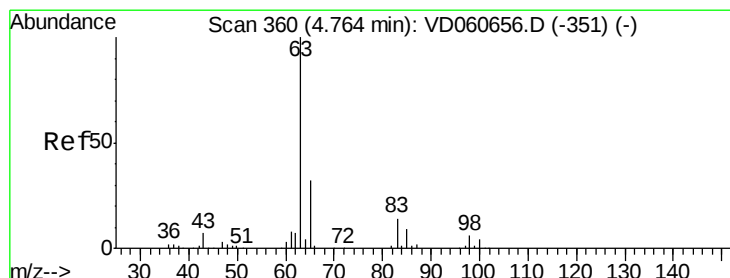
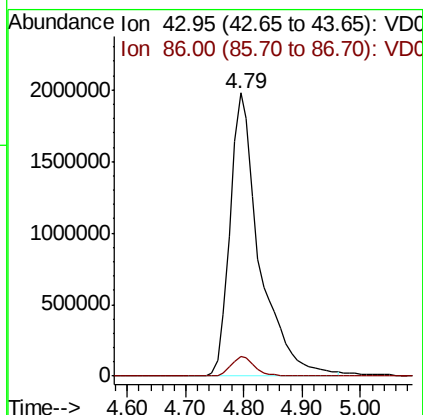
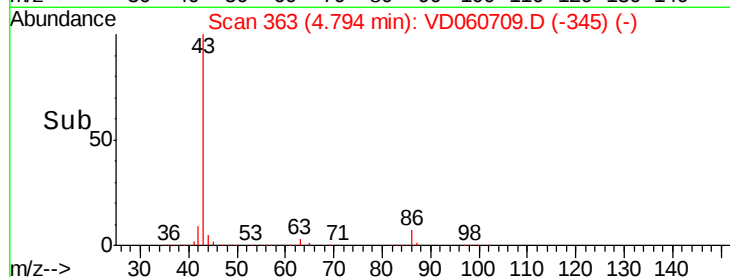
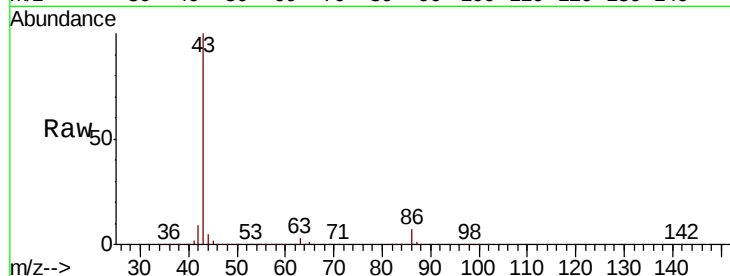
86 7.0 5.6 8.4

Manual Integrations

APPROVED

apatel

12/27/2018 10:47:55 AM



#24

1,1-Dichloroethane

Concen: 48.824 ug/l

RT: 4.74 min Scan# 358

Delta R.T. -0.02 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

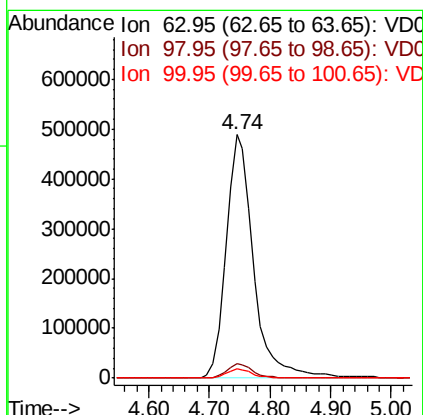
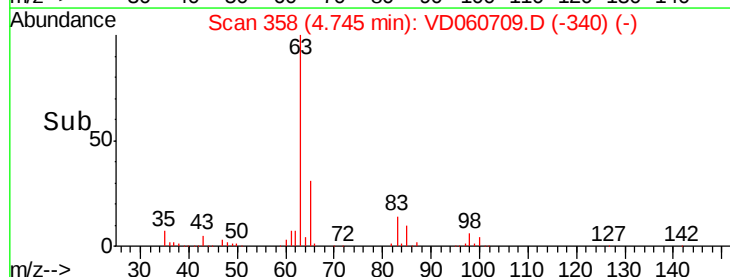
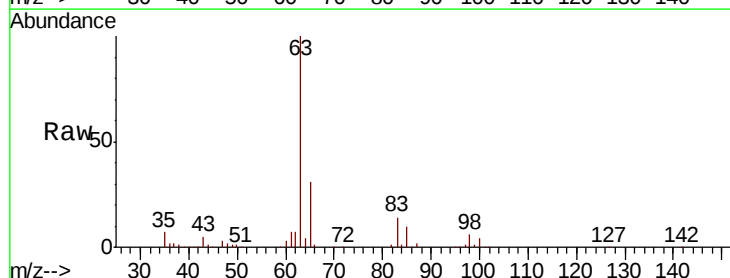
Tgt Ion: 63 Resp: 1528089

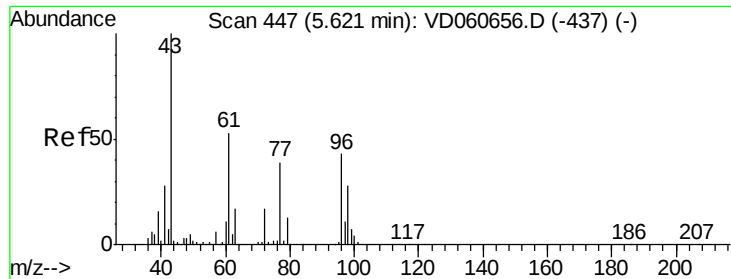
Ion Ratio Lower Upper

63 100

98 5.8 2.9 8.7

100 3.7 2.0 5.8





#25

2-Butanone

Concen: 263.177 ug/l

RT: 5.60 min Scan# 445

Delta R.T. -0.02 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1048805

Ion Ratio Lower Upper

43 100

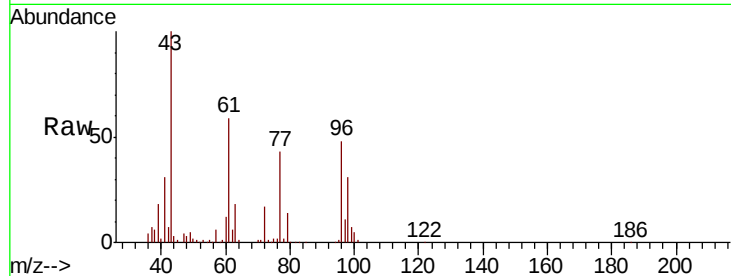
72 17.2 13.7 20.5

Manual Integrations

APPROVED

apatel

12/27/2018 10:47:55 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

400000

300000

200000

100000

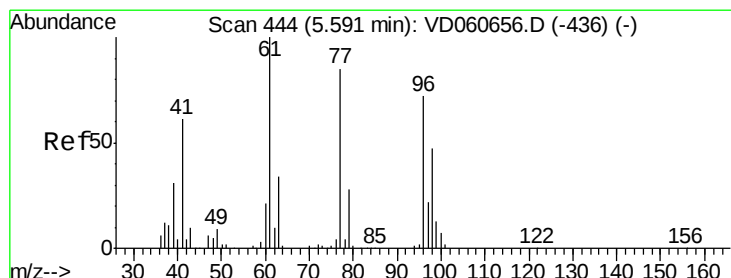
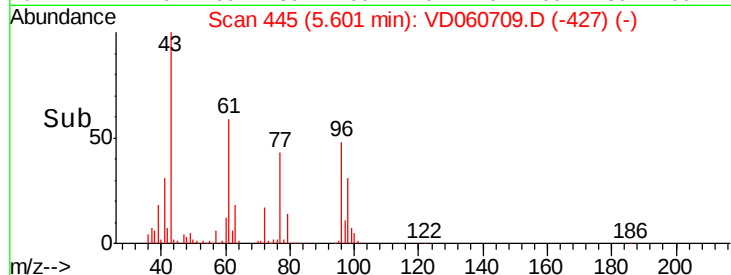
0

5.50

5.60

5.70

Time-->



#26

2,2-Dichloropropane

Concen: 48.951 ug/l

RT: 5.57 min Scan# 442

Delta R.T. -0.02 min

Lab File: VD060709.D

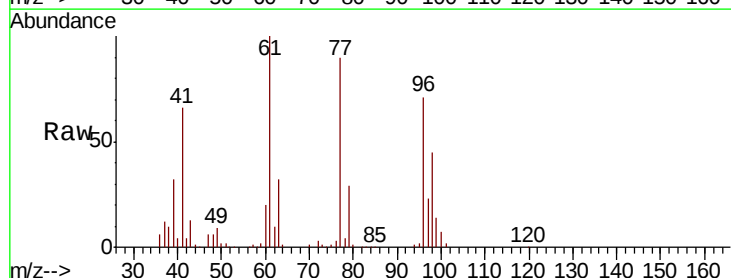
Acq: 26 Dec 2018 10:28

Tgt Ion: 77 Resp: 1209364

Ion Ratio Lower Upper

77 100

97 25.6 13.0 39.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

400000

300000

200000

100000

0

5.40

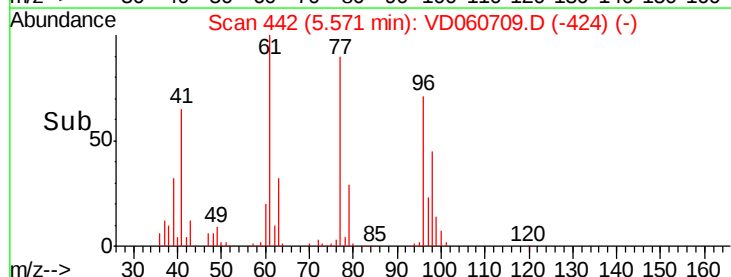
5.50

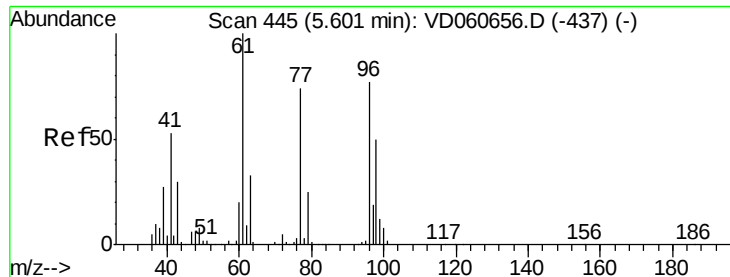
5.60

5.70

5.80

Time-->





#27

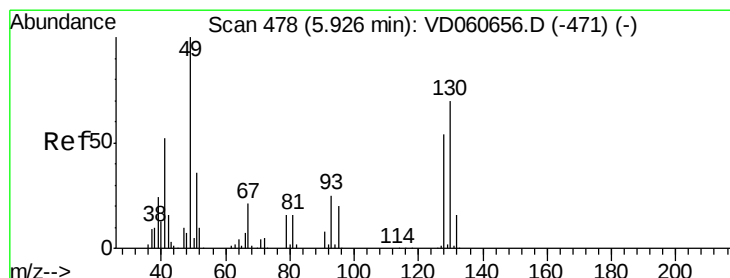
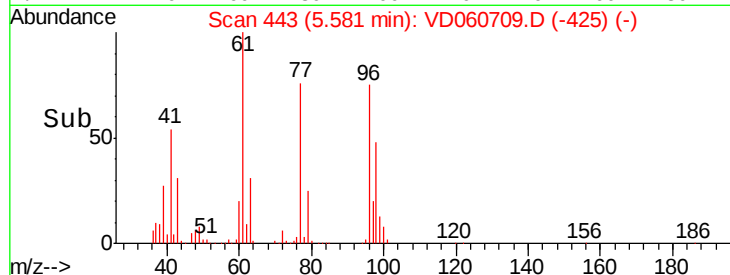
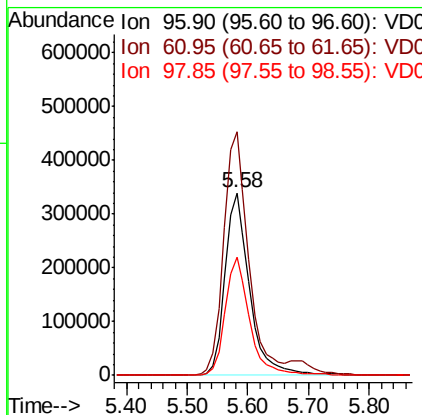
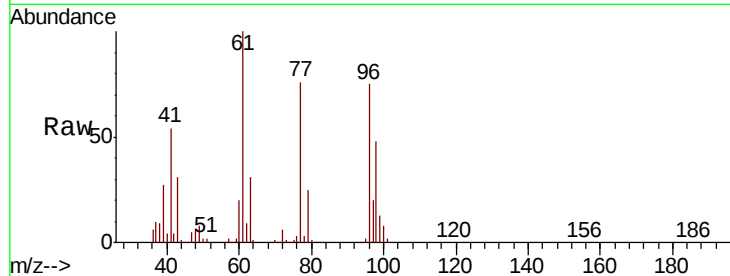
cis-1,2-Dichloroethene
 Concen: 48.101 ug/l
 RT: 5.58 min Scan# 443
 Delta R.T. -0.02 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	133.5	0.0	259.4	
98	64.6	0.0	130.0	

Manual Integrations
 APPROVED

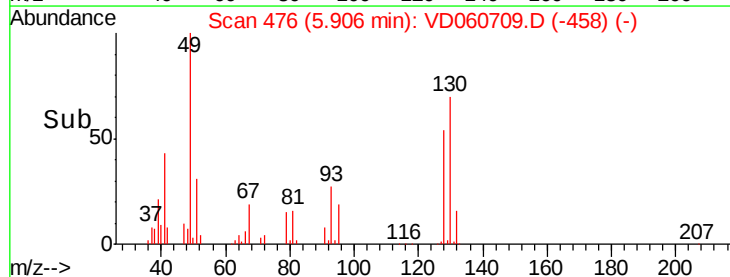
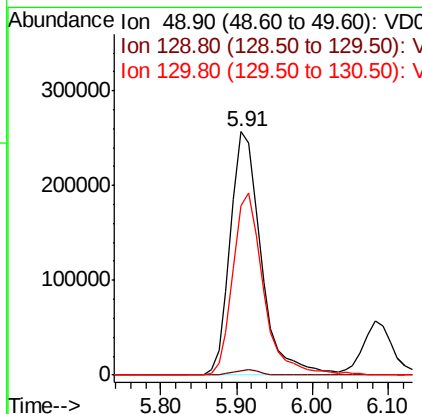
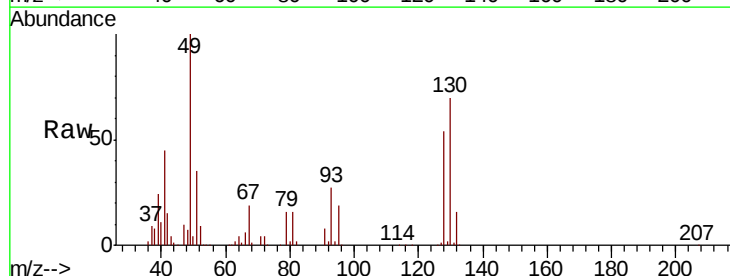
apatel
 12/27/2018 10:47:55 AM

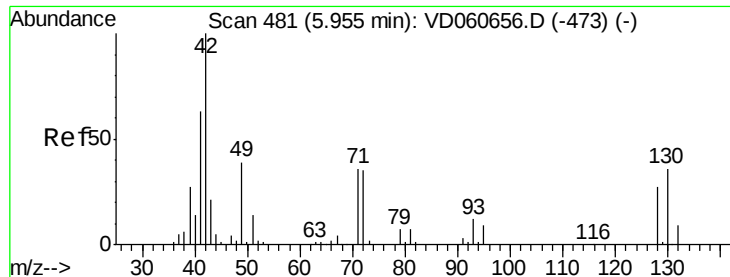


#28

Bromochloromethane
 Concen: 54.766 ug/l
 RT: 5.91 min Scan# 476
 Delta R.T. -0.02 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.7	0.0	3.4	
130	69.5	56.2	84.2	





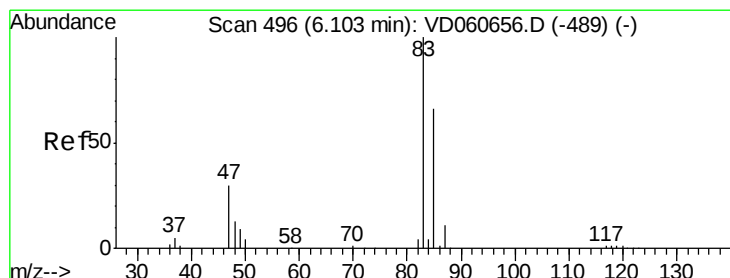
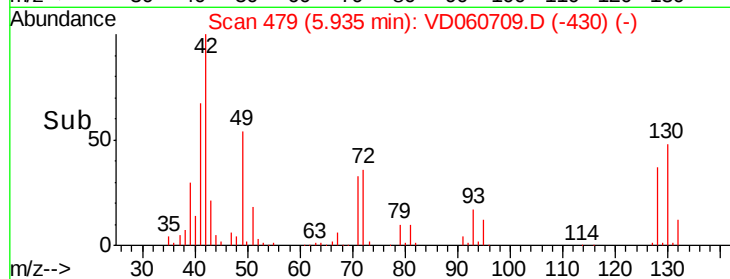
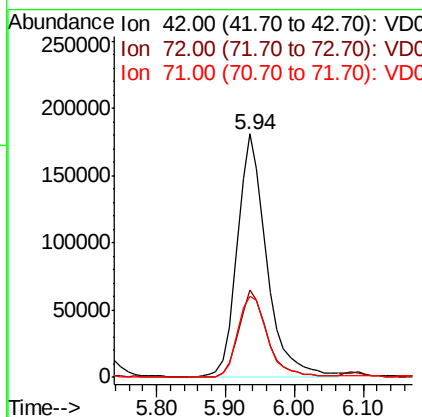
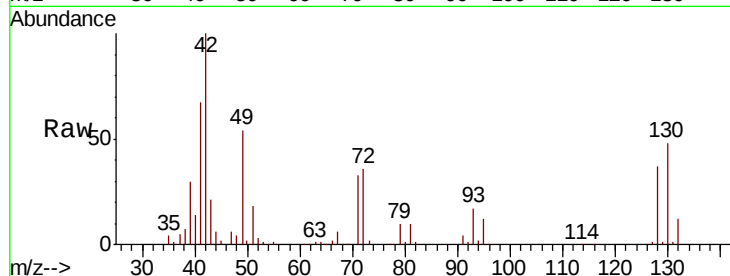
#29
Tetrahydrofuran
Concen: 235.608 ug/l
RT: 5.94 min Scan# 479
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.2	28.0	42.0
71	34.3	27.0	40.6

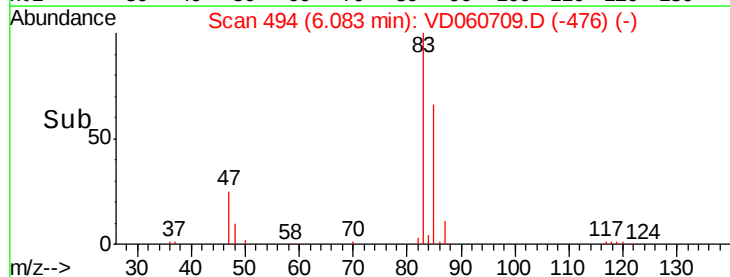
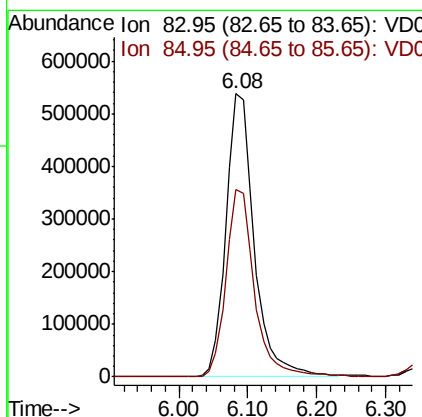
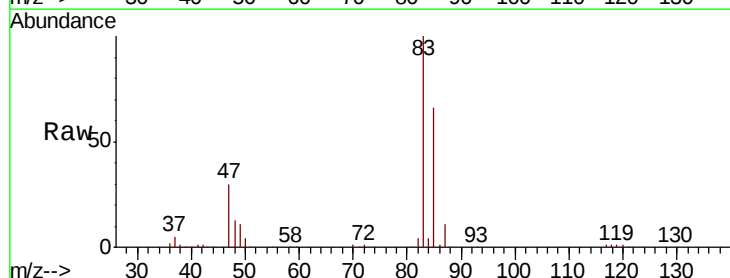
Manual Integrations
APPROVED

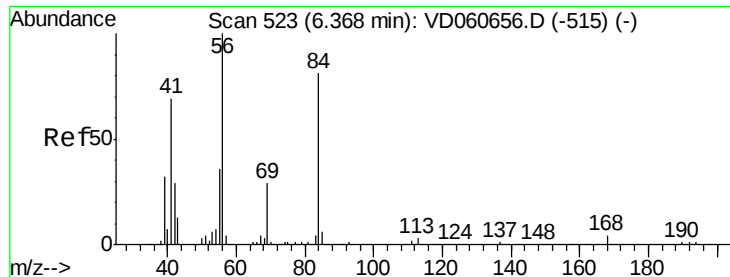
apatel
12/27/2018 10:47:55 AM



#30
Chloroform
Concen: 48.557 ug/l
RT: 6.08 min Scan# 494
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.3	53.0	79.6





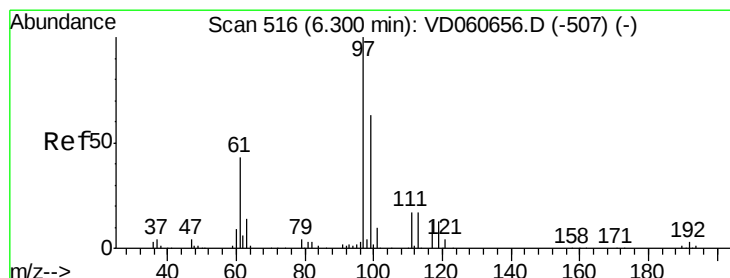
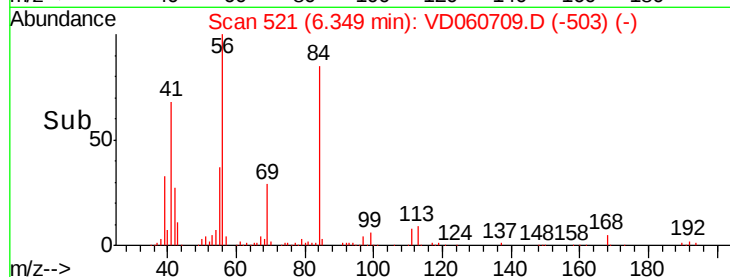
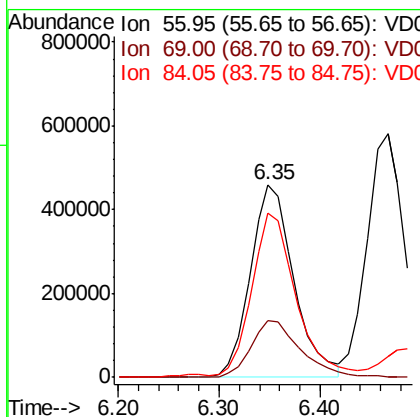
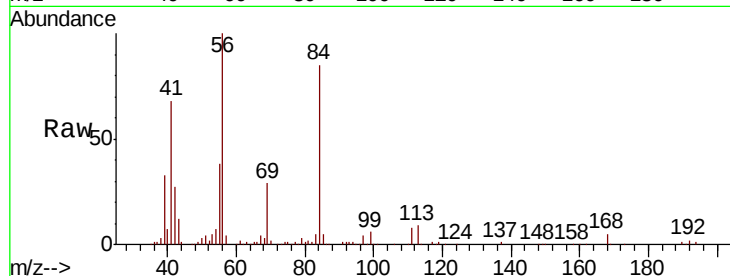
#31
Cvclohexane
Concen: 45.613 ug/l
RT: 6.35 min Scan# 521
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 56 Resp: 1373835
Ion Ratio Lower Upper
56 100
69 29.2 23.6 35.4
84 85.0 65.8 98.6

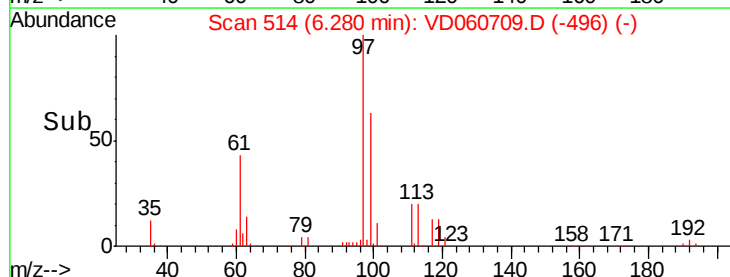
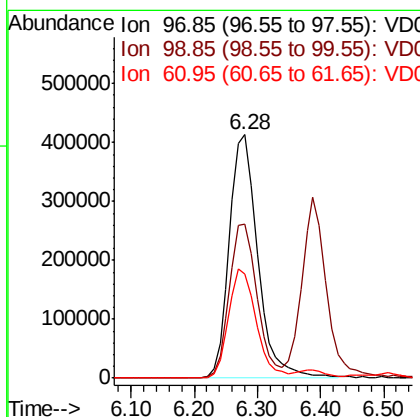
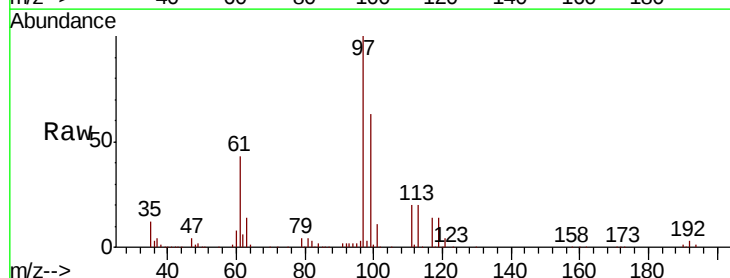
Manual Integrations
APPROVED

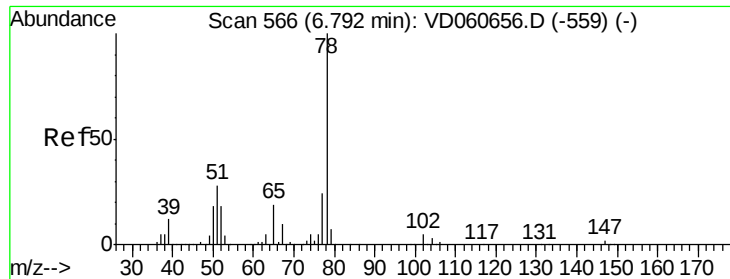
apatel
12/27/2018 10:47:55 AM



#32
1,1,1-Trichloroethane
Concen: 49.399 ug/l
RT: 6.28 min Scan# 514
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion: 97 Resp: 1287095
Ion Ratio Lower Upper
97 100
99 63.4 50.5 75.7
61 42.7 34.6 51.8





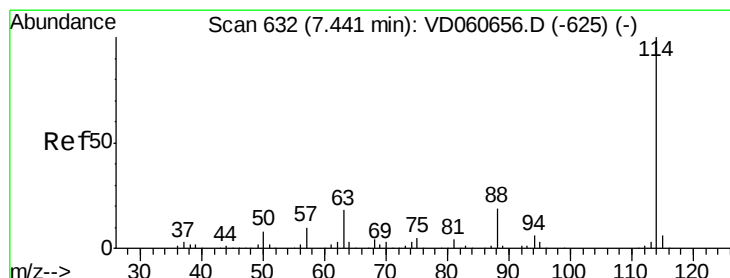
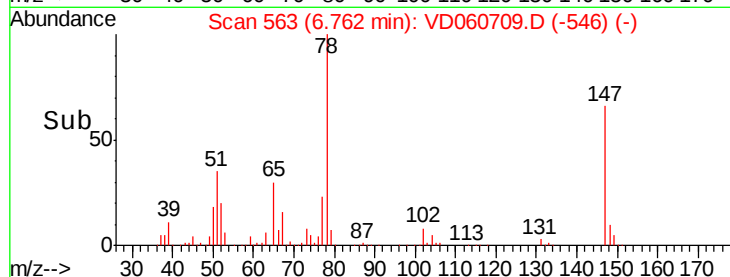
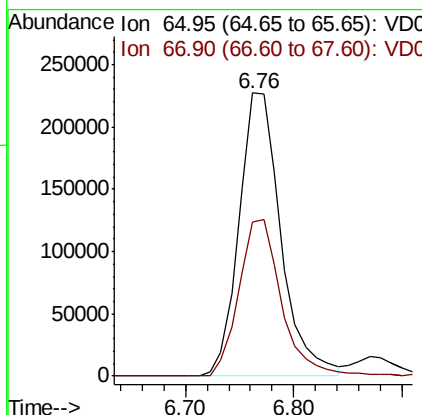
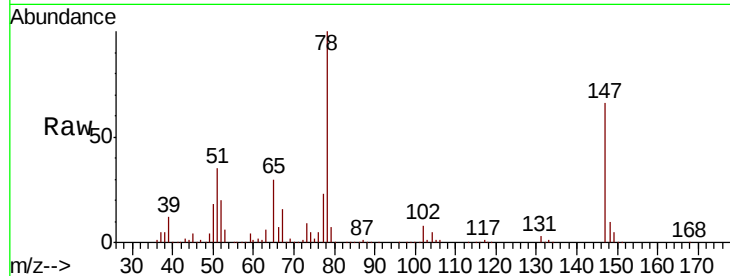
#33
 1,2-Dichloroethane-d4
 Concen: 49.399 ug/l
 RT: 6.76 min Scan# 563
 Delta R.T. -0.03 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 65 Resp: 614721
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 105.4

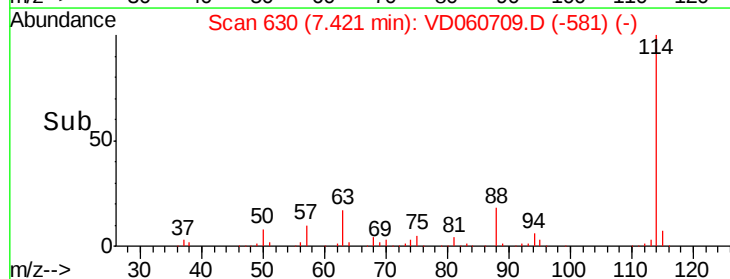
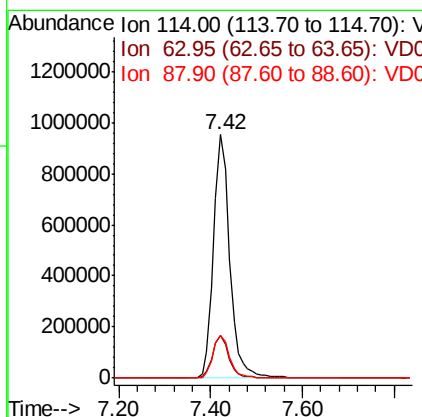
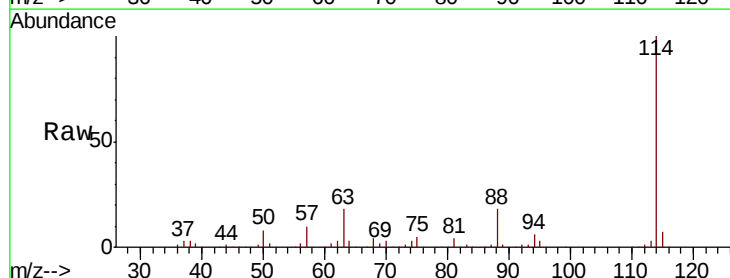
Manual Integrations
 APPROVED

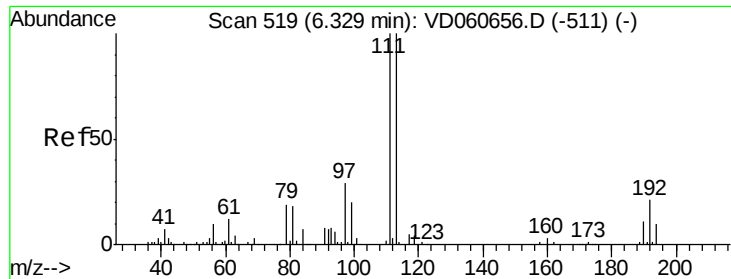
apatel
 12/27/2018 10:47:55 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.42 min Scan# 630
 Delta R.T. -0.02 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Tgt Ion: 114 Resp: 2320778
 Ion Ratio Lower Upper
 114 100
 63 17.5 0.0 36.2
 88 17.8 0.0 37.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.31 min Scan# 517

Delta R.T. -0.02 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Instrument :

MSVOA_D

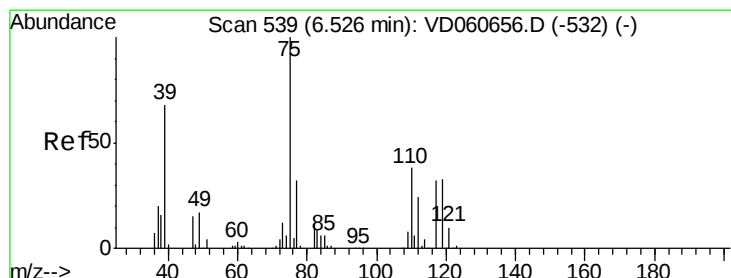
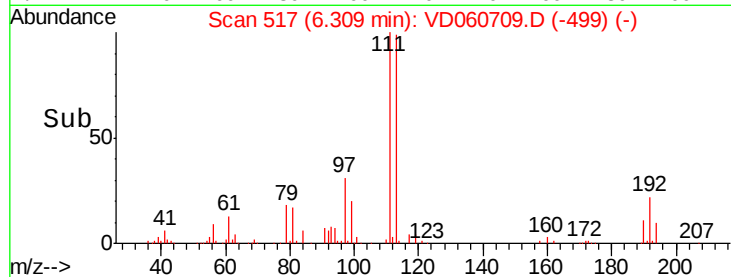
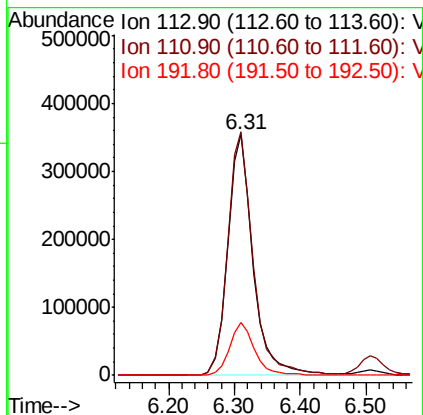
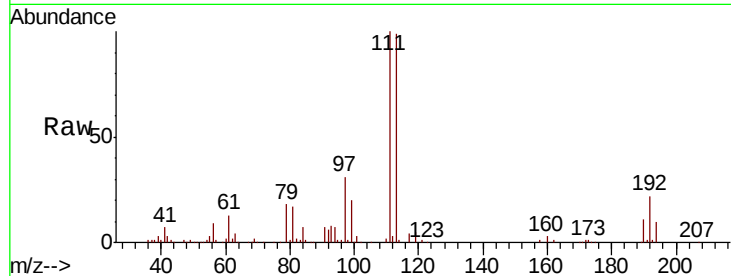
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	949844
Ion Ratio	Lower	Upper	
113	100		
111	101.2	80.0	120.0
192	21.9	16.6	25.0

Manual Integrations
APPROVED

apatel
12/27/2018 10:47:55 AM



#36

1,1-Dichloropropene

Concen: 48.331 ug/l

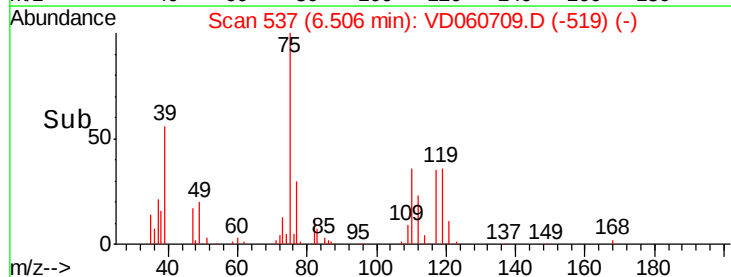
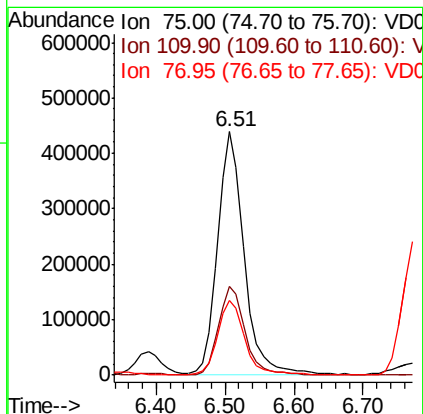
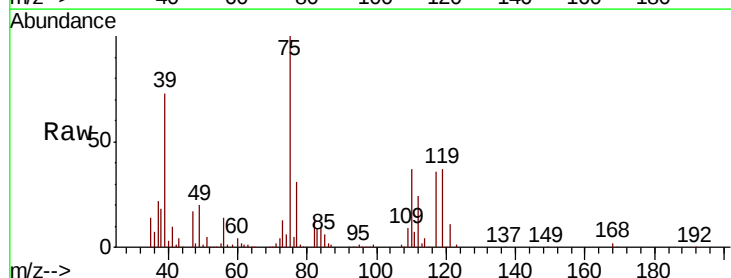
RT: 6.51 min Scan# 537

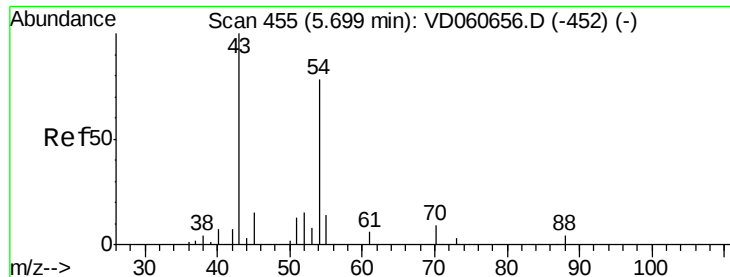
Delta R.T. -0.02 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Tgt Ion:	75	Resp:	1154995
Ion Ratio	Lower	Upper	
75	100		
110	36.6	18.9	56.7
77	30.9	25.4	38.0





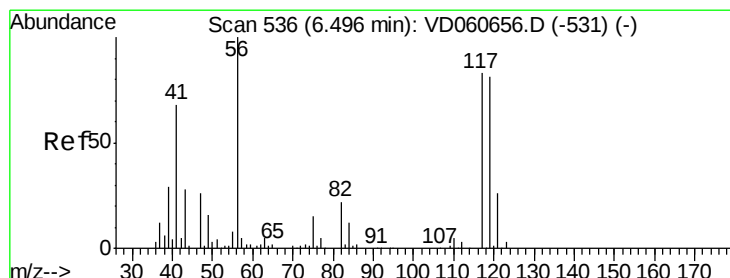
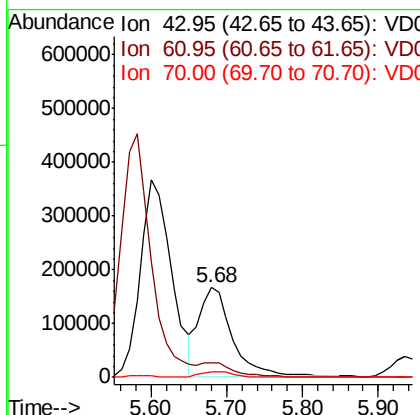
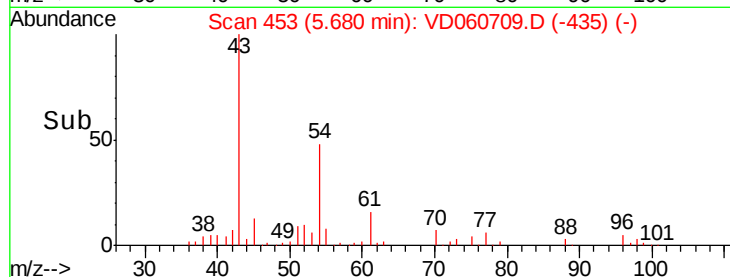
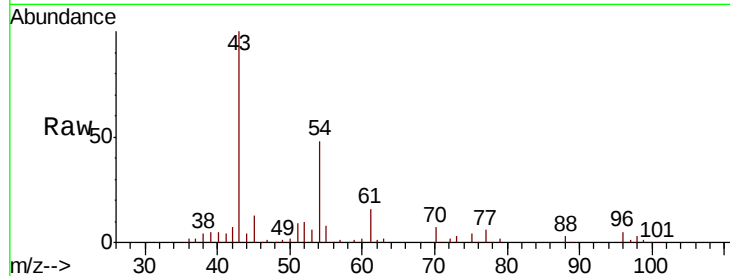
#37
Ethyl Acetate
Concen: 50.564 ug/l
RT: 5.68 min Scan# 453
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.3	11.8	17.6
70	6.8	5.8	8.6

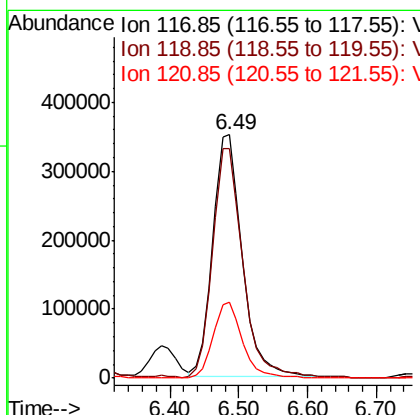
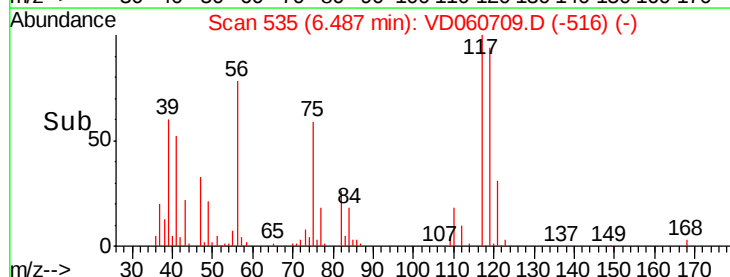
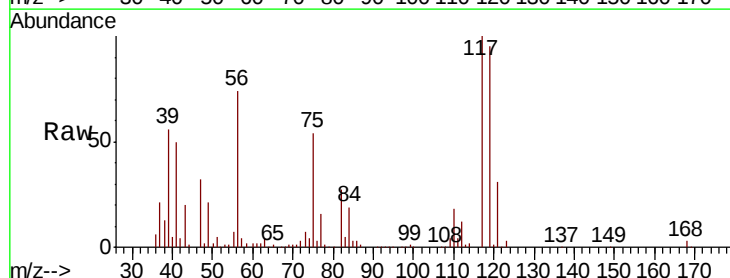
Manual Integrations
APPROVED

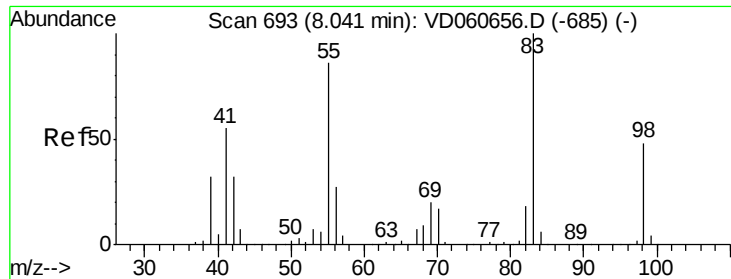
apatel
12/27/2018 10:47:55 AM



#38
Carbon Tetrachloride
Concen: 49.529 ug/l
RT: 6.49 min Scan# 535
Delta R.T. -0.01 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.5	77.0	115.4
121	31.3	24.7	37.1





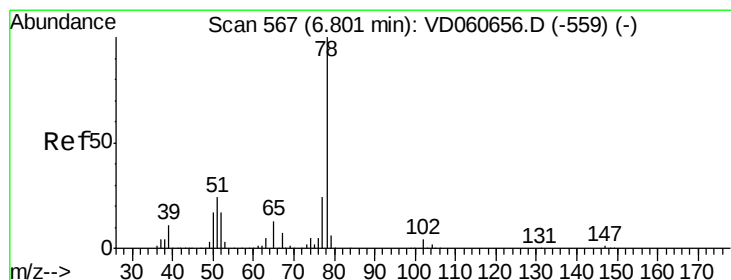
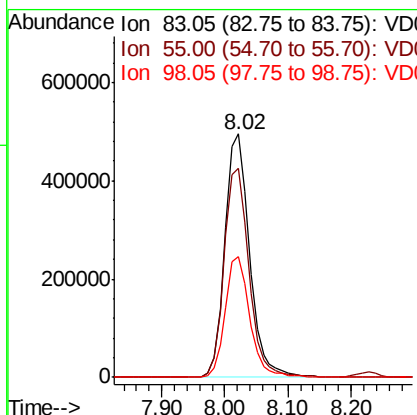
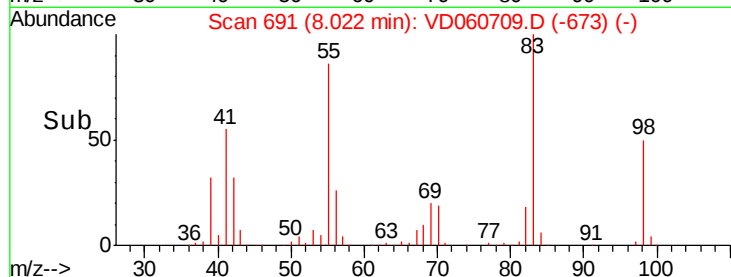
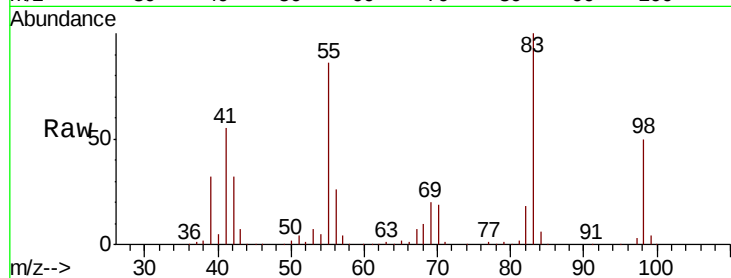
#39
Methvlcvclohexane
Concen: 49.384 ug/l
RT: 8.02 min Scan# 691
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 83 Resp: 1345973
Ion Ratio Lower Upper
83 100
55 86.1 68.6 102.8
98 49.5 38.1 57.1

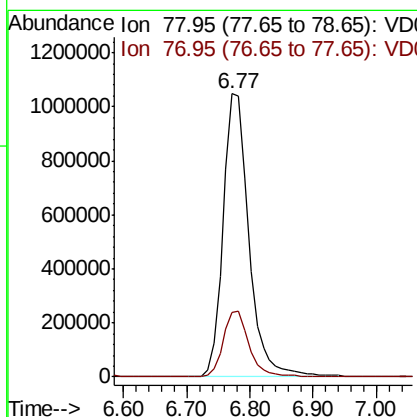
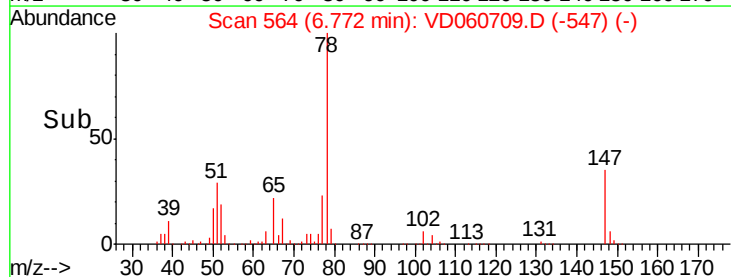
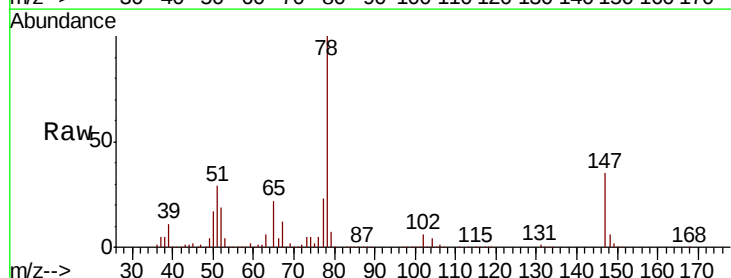
Manual Integrations
APPROVED

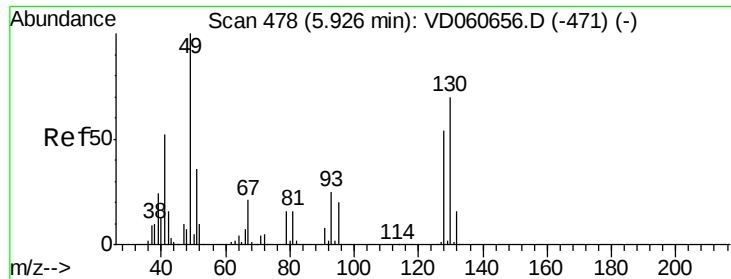
apatel
12/27/2018 10:47:55 AM



#40
Benzene
Concen: 48.148 ug/l
RT: 6.77 min Scan# 564
Delta R.T. -0.03 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion: 78 Resp: 2972148
Ion Ratio Lower Upper
78 100
77 23.0 19.2 28.8





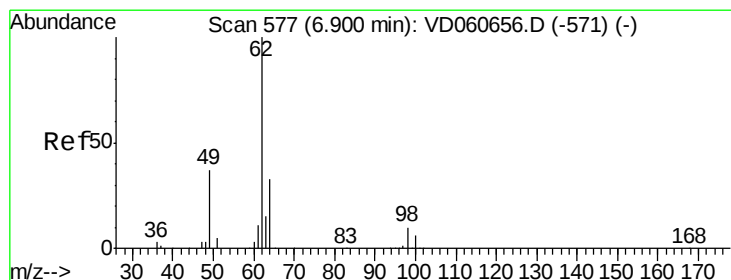
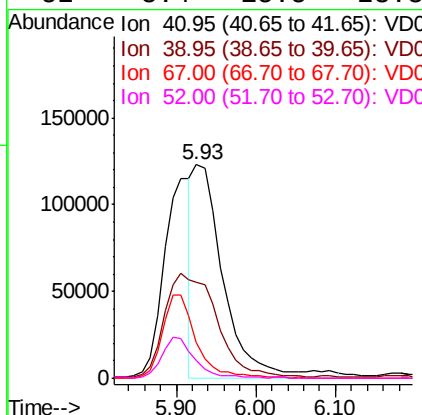
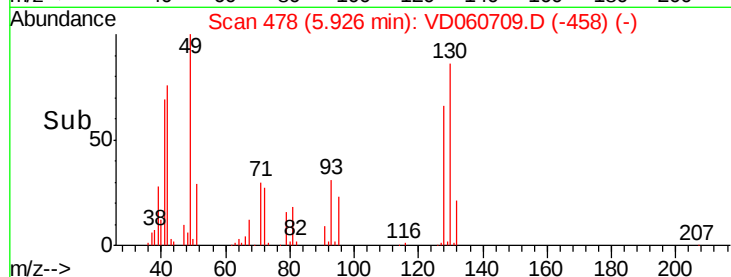
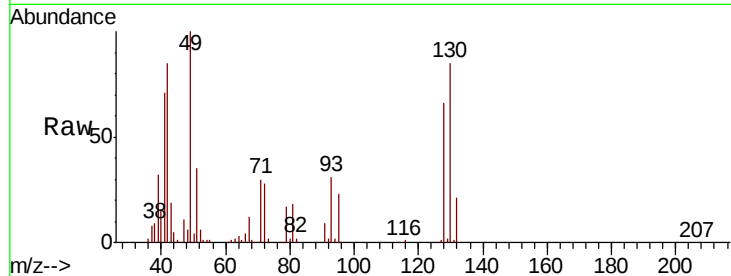
#41
Methacrylonitrile
Concen: 58.934 ug/l m
RT: 5.93 min Scan# 478
Delta R.T. -0.00 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	44.9	37.6	56.4
67	16.9	33.0	49.6#
52	8.4	15.5	23.3#

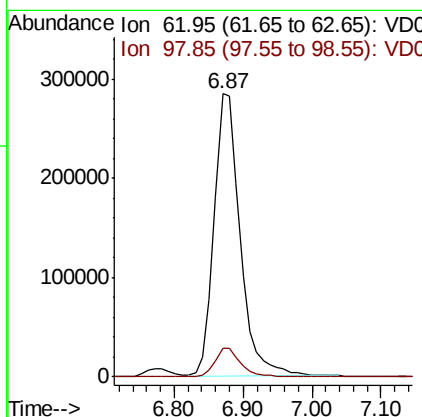
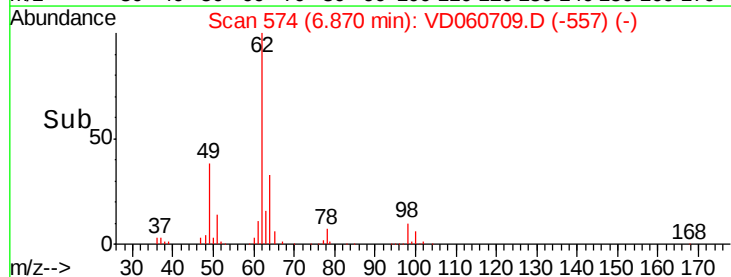
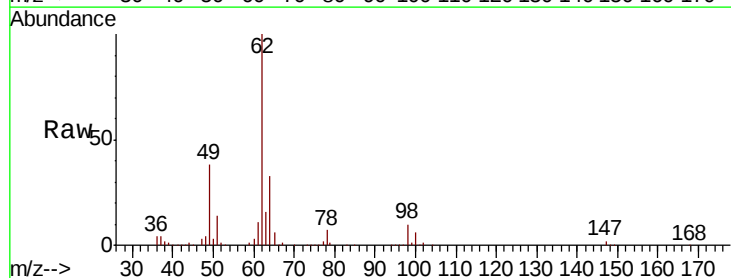
Manual Integrations
APPROVED

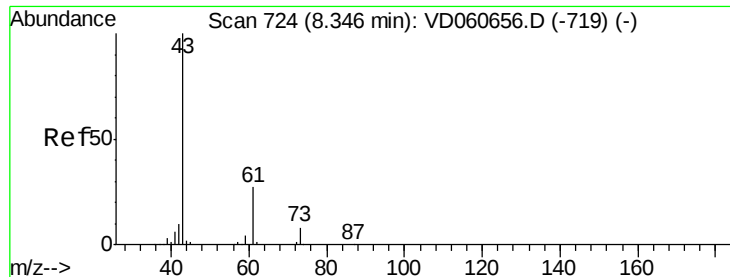
apatel
12/27/2018 10:47:55 AM



#42
1,2-Dichloroethane
Concen: 48.754 ug/l
RT: 6.87 min Scan# 574
Delta R.T. -0.03 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	20.4





#43

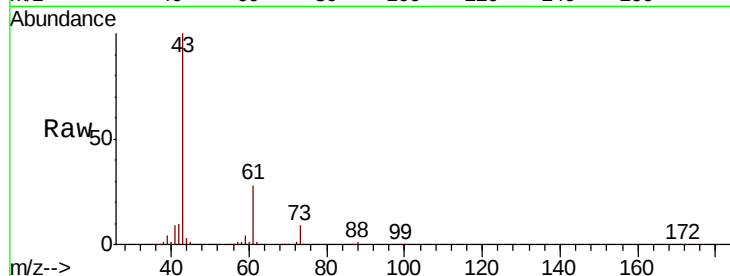
Isopropyl Acetate
 Concen: 49.603 ug/l
 RT: 8.33 min Scan# 722
 Delta R.T. -0.02 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

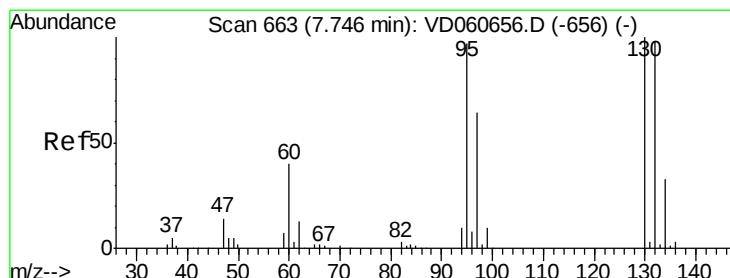
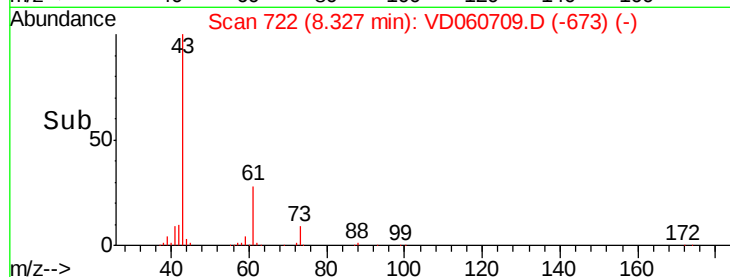
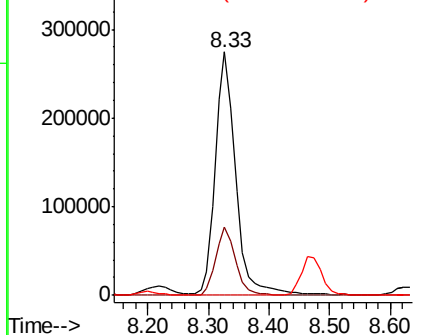
Tot Ion	Ratio	Lower	Upper
43	100		
61	28.1	21.8	32.8
87	0.3	0.2	0.4

Manual Integrations
 APPROVED

apatel
 12/27/2018 10:47:55 AM



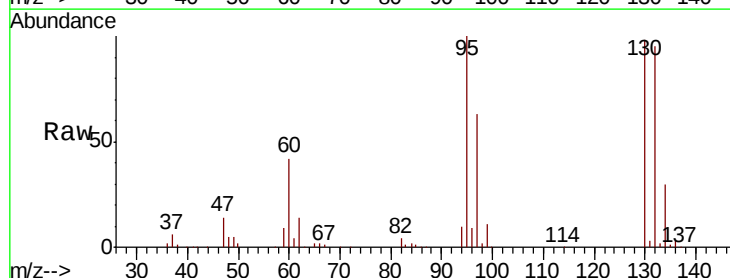
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



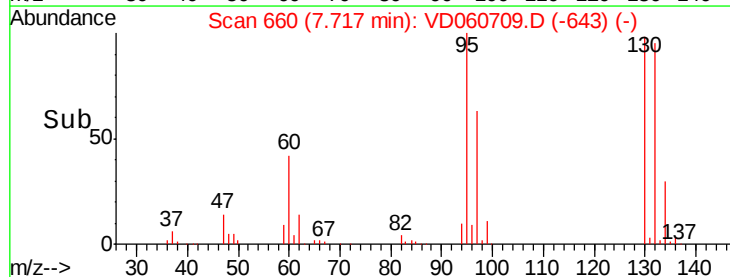
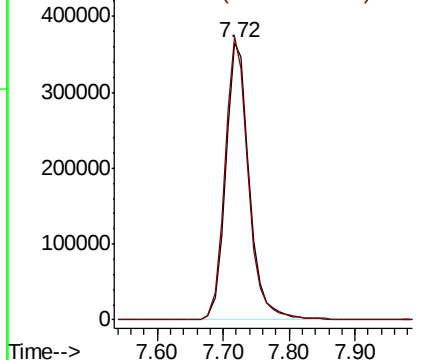
#44

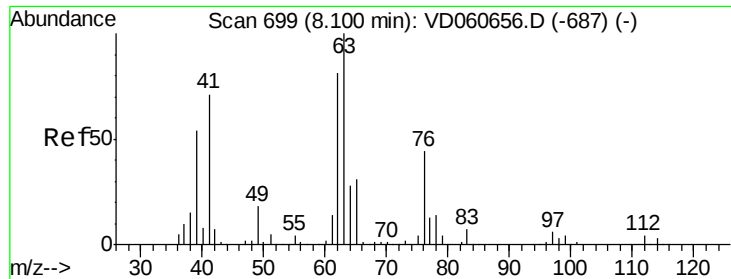
Trichloroethene
 Concen: 50.379 ug/l
 RT: 7.72 min Scan# 660
 Delta R.T. -0.03 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Tgt Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	193.6



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





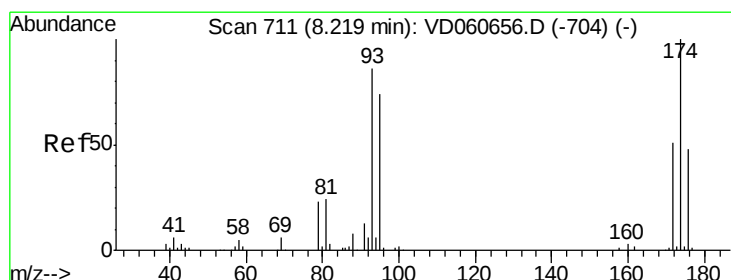
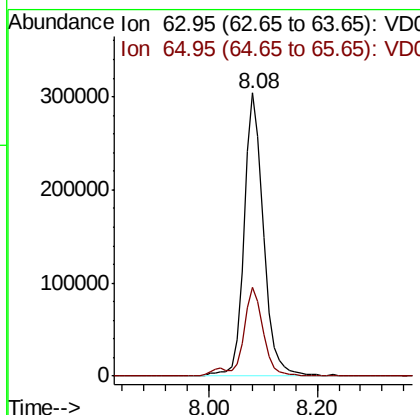
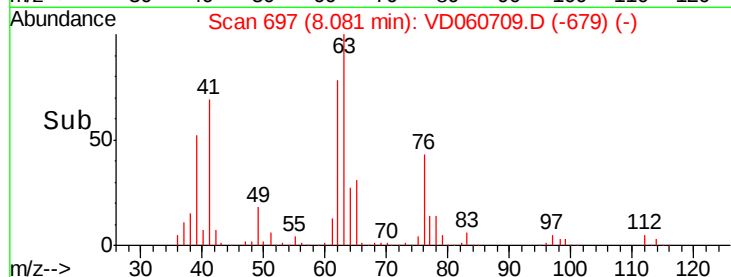
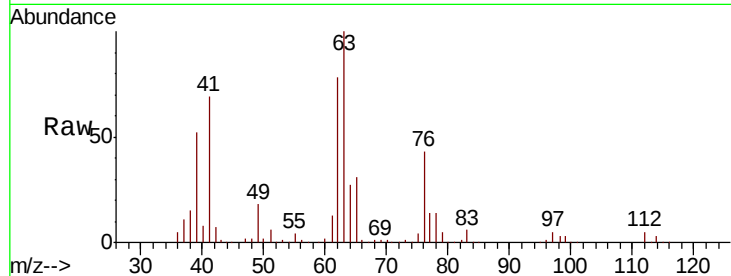
#45
 1,2-Dichloropropane
 Concen: 49.745 ug/l
 RT: 8.08 min Scan# 697
 Delta R.T. -0.02 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 753067
 Ion Ratio Lower Upper
 63 100
 65 31.5 25.0 37.6

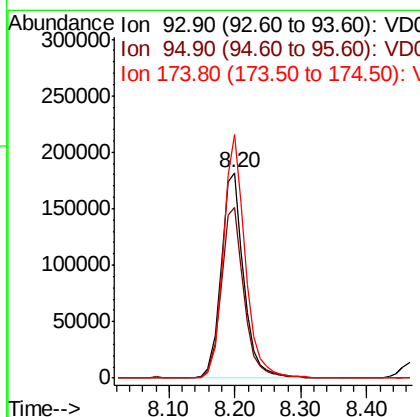
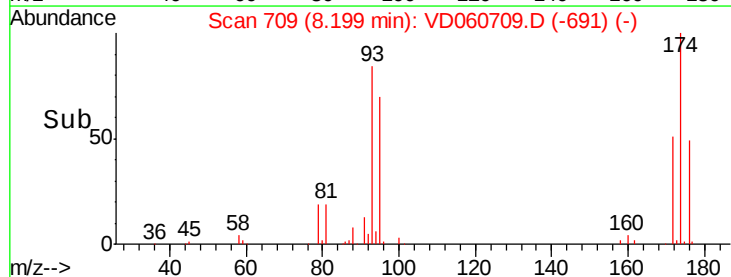
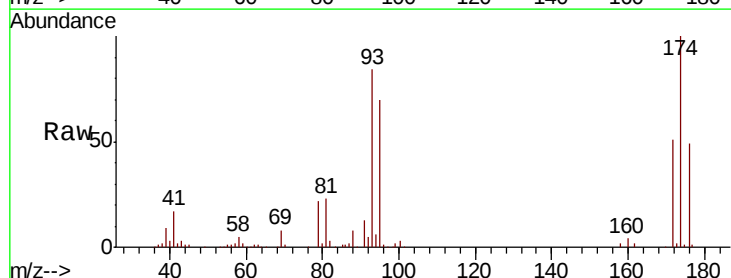
Manual Integrations
 APPROVED

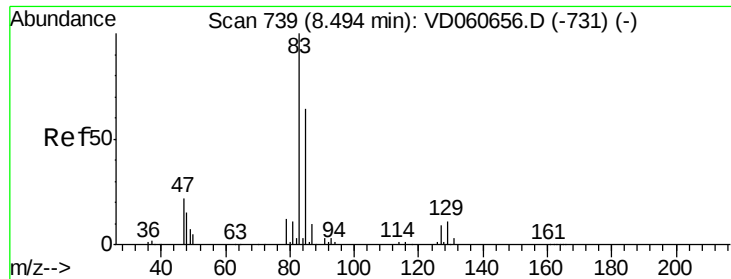
apatel
 12/27/2018 10:47:55 AM



#46
 Dibromomethane
 Concen: 50.285 ug/l
 RT: 8.20 min Scan# 709
 Delta R.T. -0.02 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Tgt Ion: 93 Resp: 434467
 Ion Ratio Lower Upper
 93 100
 95 83.1 68.8 103.2
 174 118.6 93.0 139.4





#47

Bromodichloromethane

Concen: 50.882 ug/l

RT: 8.46 min Scan# 736

Delta R.T. -0.03 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 1041235

Ion Ratio Lower Upper

83 100

85 63.9 51.1 76.7

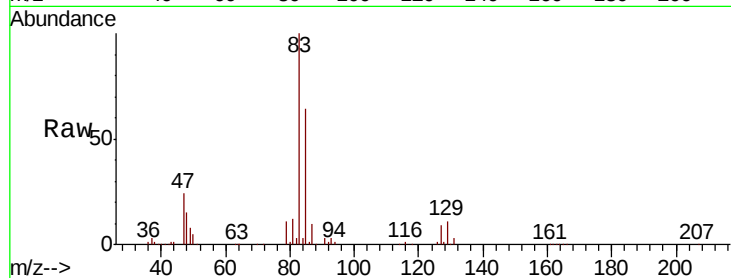
127 8.5 7.0 10.6

Manual Integrations

APPROVED

apatel

12/27/2018 10:47:55 AM

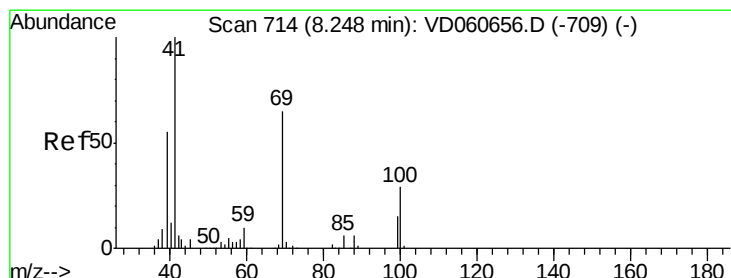
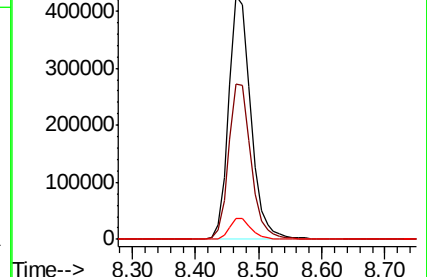
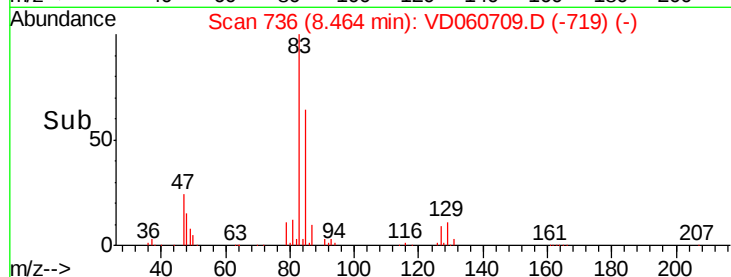


Abundance Ion 82.85 (82.55 to 83.55): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 126.80 (126.50 to 127.50): VDC

8.46



#48

Methyl methacrylate

Concen: 50.883 ug/l

RT: 8.22 min Scan# 711

Delta R.T. -0.03 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

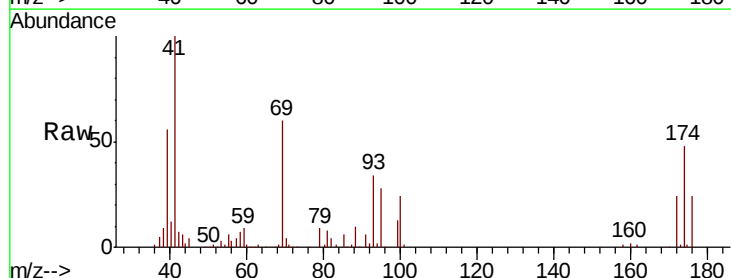
Tgt Ion: 41 Resp: 396382

Ion Ratio Lower Upper

41 100

69 59.8 51.2 76.8

39 56.0 44.6 67.0

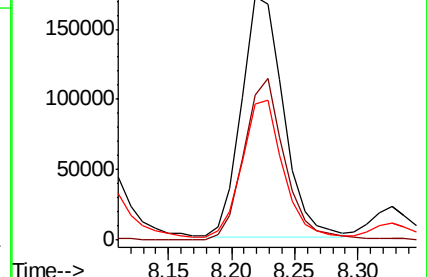
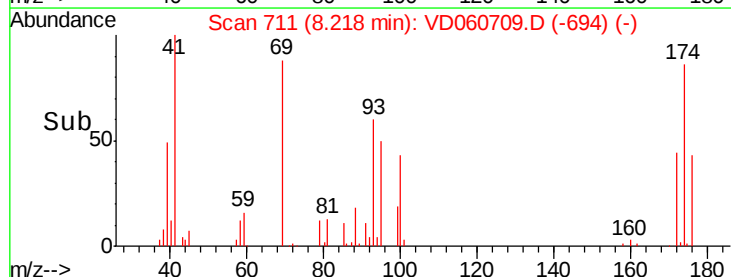


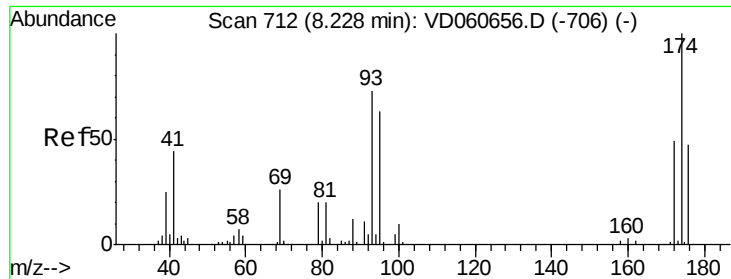
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC

8.22





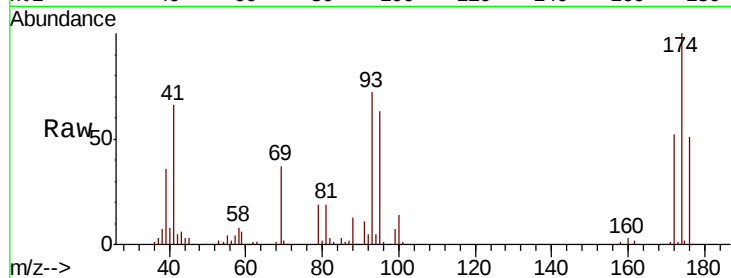
#49
1,4-Dioxane
Concen: 1031.649 ug/l
RT: 8.21 min Scan# 710
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

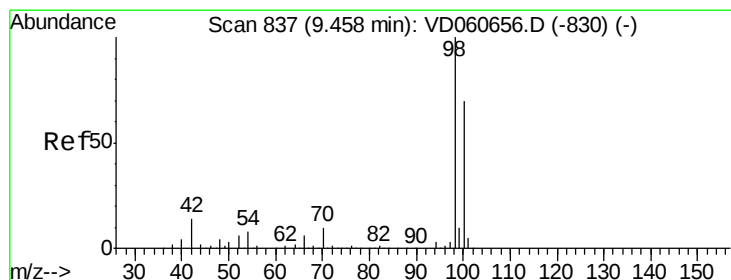
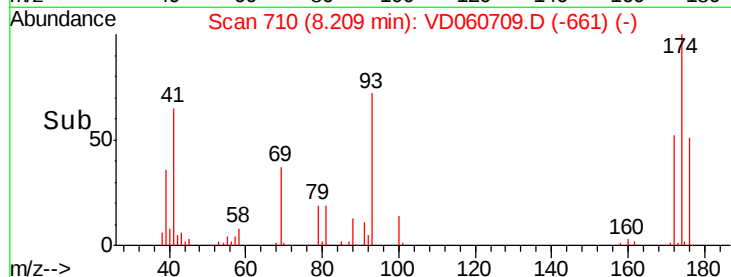
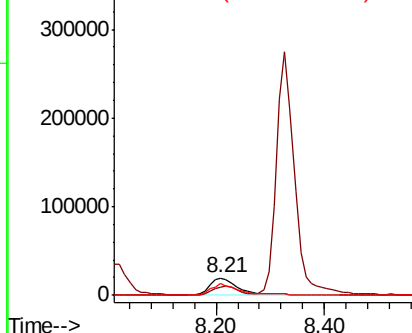
Tot Ion	Ratio	Lower	Upper
88	100		
43	46.2	31.5	47.3
58	66.0	50.6	76.0

Manual Integrations
APPROVED

apatel
12/27/2018 10:47:55 AM

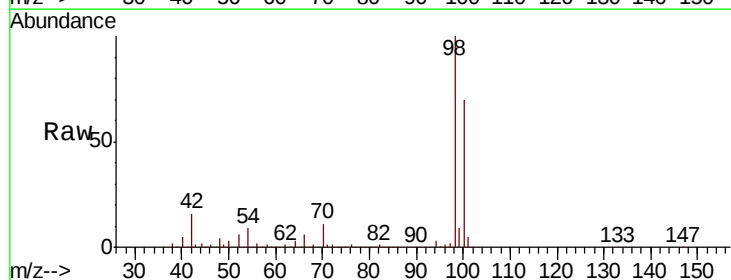


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

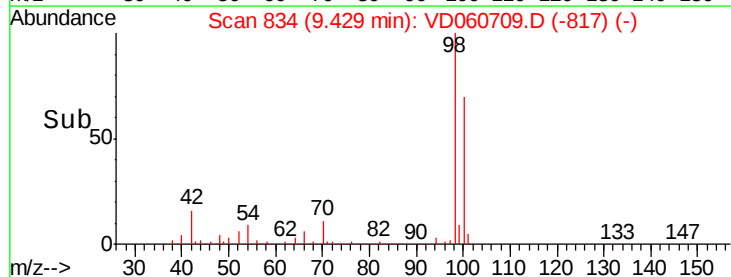
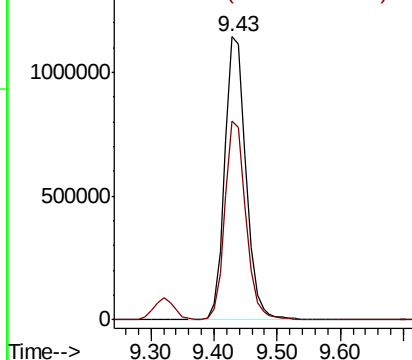


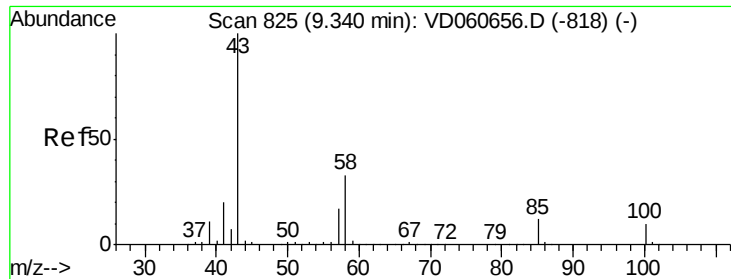
#50
Toluene-d8
Concen: 1031.649 ug/l
RT: 9.43 min Scan# 834
Delta R.T. -0.03 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.5	55.8	83.8



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





#51

4-Methyl-2-Pentanone

Concen: 245.989 ug/l

RT: 9.32 min Scan# 823

Delta R.T. -0.02 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1933000

Ion Ratio Lower Upper

43 100

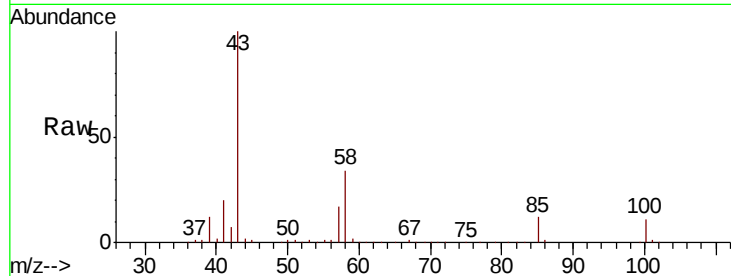
58 33.7 26.3 39.5

Manual Integrations

APPROVED

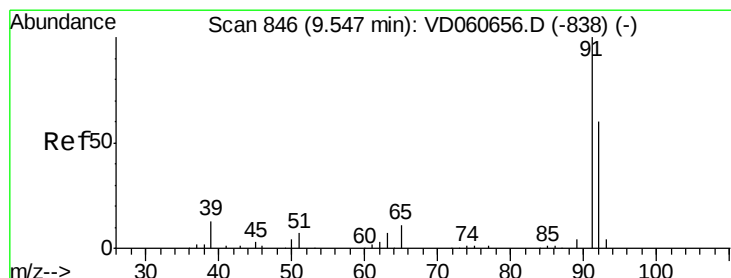
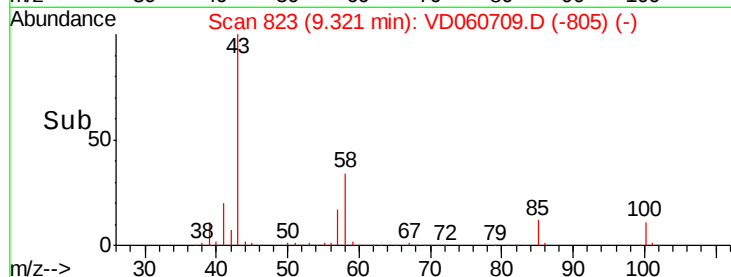
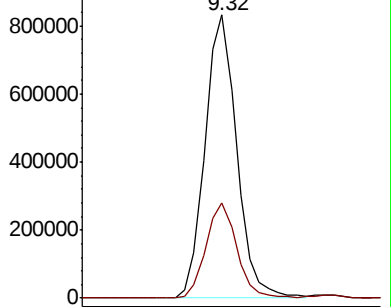
apatel

12/27/2018 10:47:55 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 48.348 ug/l

RT: 9.53 min Scan# 844

Delta R.T. -0.02 min

Lab File: VD060709.D

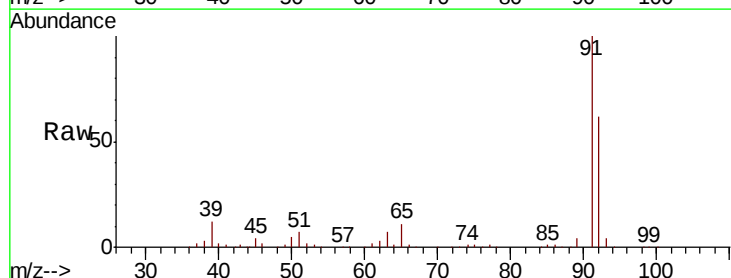
Acq: 26 Dec 2018 10:28

Tgt Ion: 92 Resp: 1870941

Ion Ratio Lower Upper

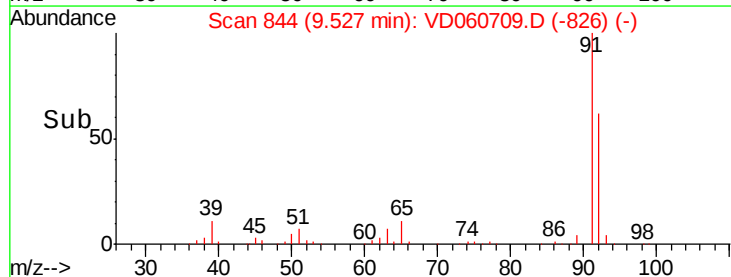
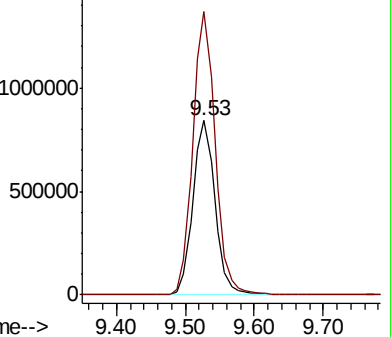
92 100

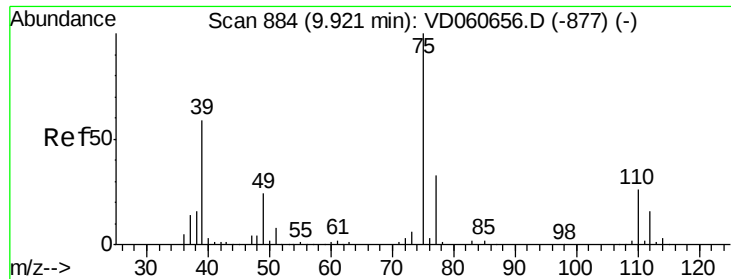
91 162.4 132.6 199.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





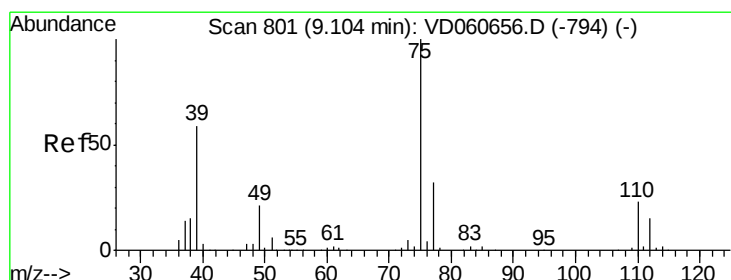
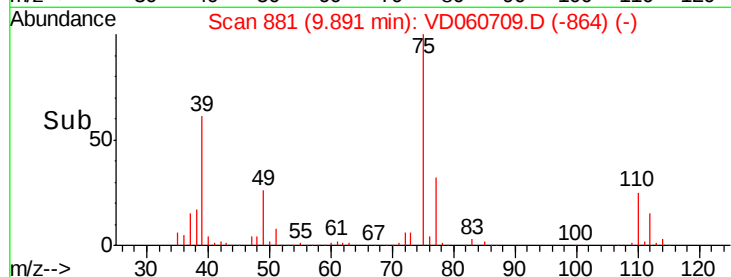
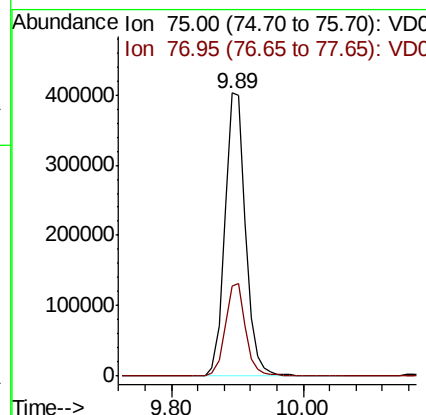
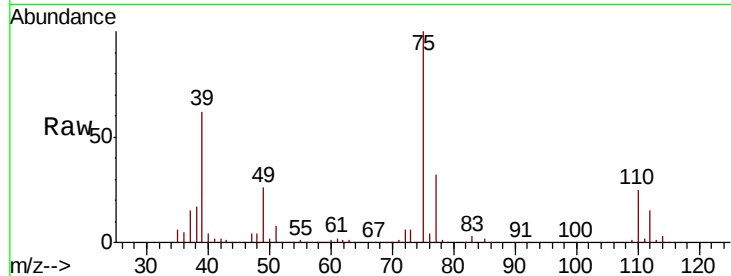
#53
t-1,3-Dichloropropene
Concen: 51.644 ug/l
RT: 9.89 min Scan# 881
Delta R.T. -0.03 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 881692
Ion Ratio Lower Upper
75 100
77 32.0 26.0 39.0

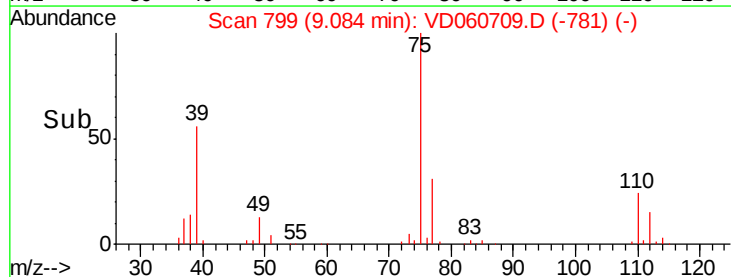
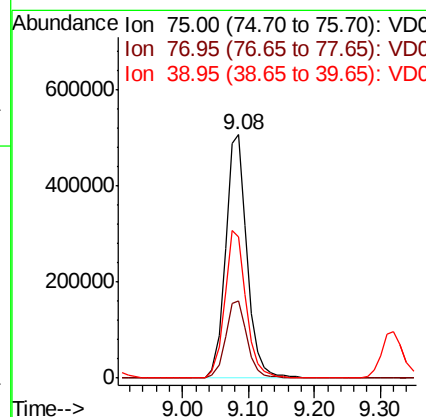
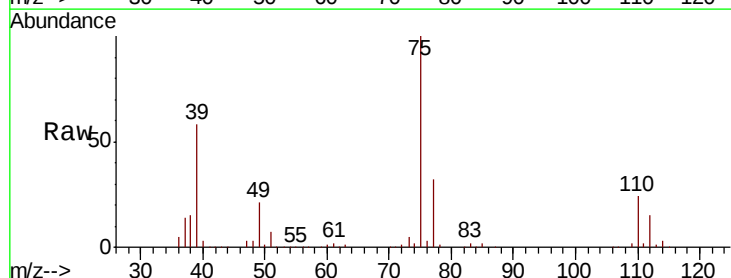
Manual Integrations
APPROVED

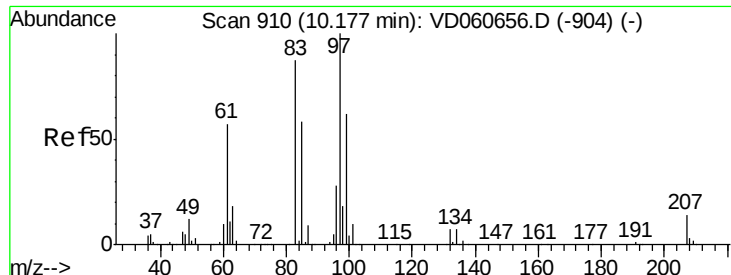
apatel
12/27/2018 10:47:55 AM



#54
cis-1,3-Dichloropropene
Concen: 51.285 ug/l
RT: 9.08 min Scan# 799
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion: 75 Resp: 1146025
Ion Ratio Lower Upper
75 100
77 31.7 25.4 38.2
39 58.2 47.0 70.4





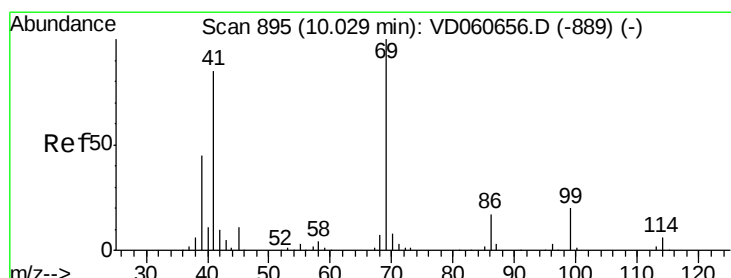
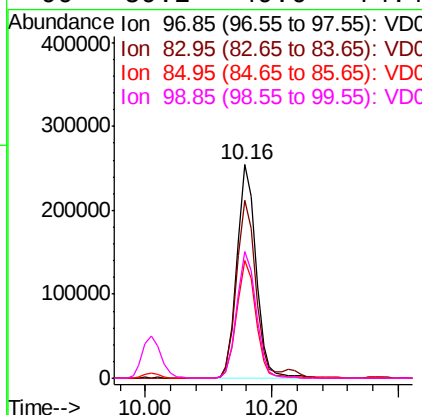
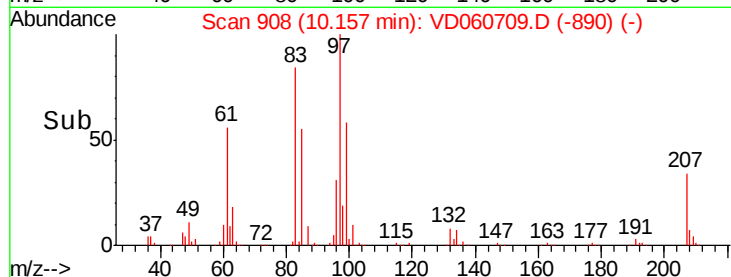
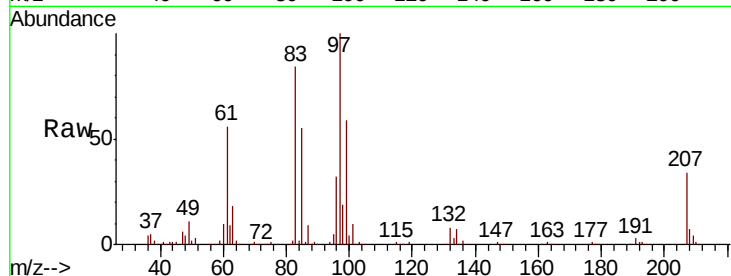
#55
 1,1,2-Trichloroethane
 Concen: 50.794 ug/l
 RT: 10.16 min Scan# 908
 Delta R.T. -0.02 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		528866		
83	83.6	70.0	105.0		
85	55.0	46.6	70.0		
99	59.2	49.6	74.4		

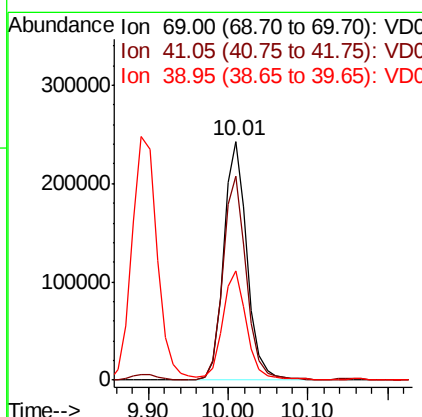
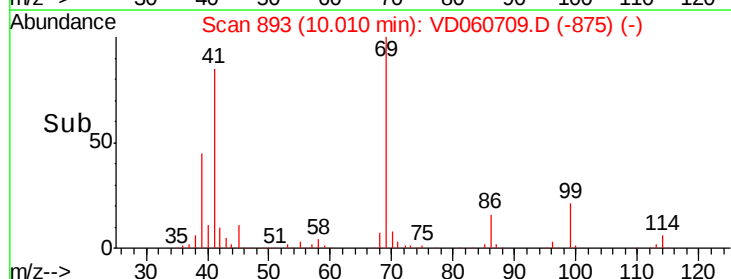
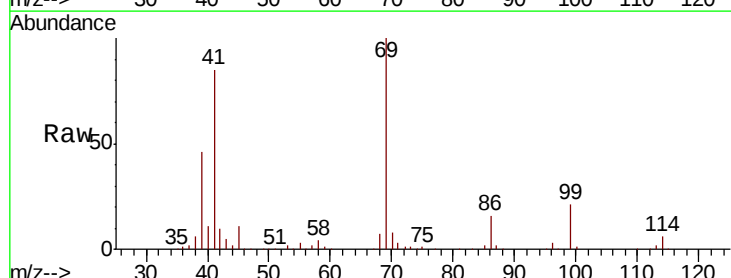
Manual Integrations
 APPROVED

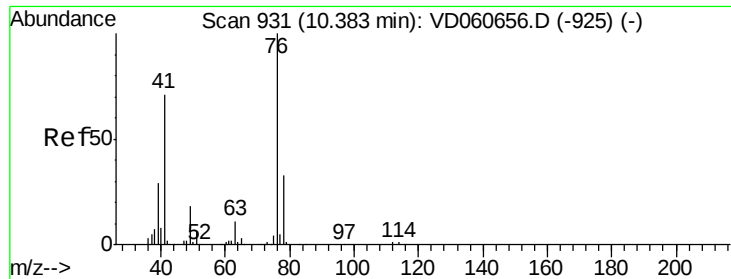
apatel
 12/27/2018 10:47:55 AM



#56
 Ethyl methacrylate
 Concen: 51.539 ug/l
 RT: 10.01 min Scan# 893
 Delta R.T. -0.02 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		498431		
41	85.2	68.3	102.5		
39	45.5	37.2	55.8		





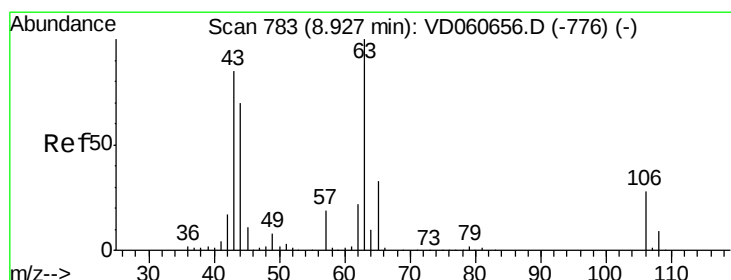
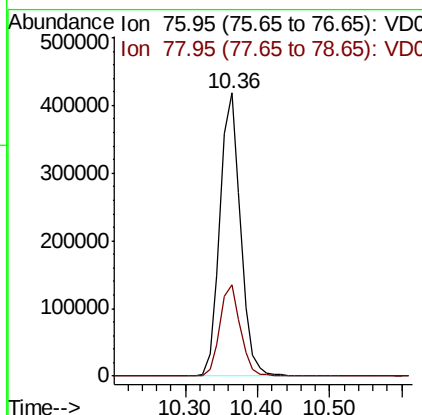
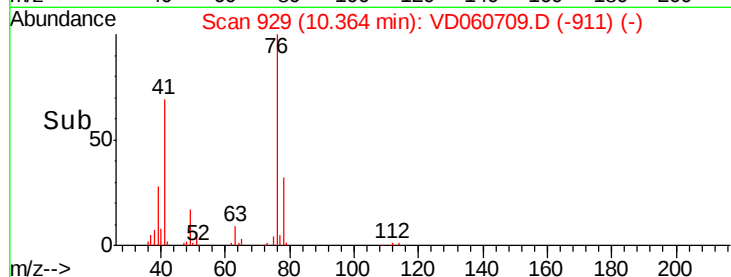
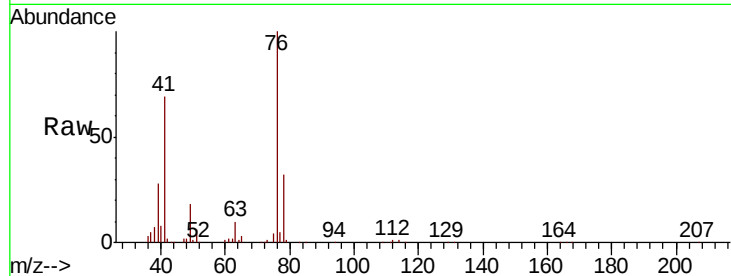
#57
 1,3-Dichloropropane
 Concen: 49.716 ug/l
 RT: 10.36 min Scan# 929
 Delta R.T. -0.02 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 820493
 Ion Ratio Lower Upper
 76 100
 78 32.5 26.1 39.1

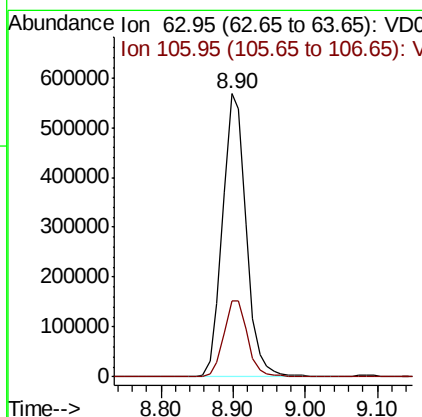
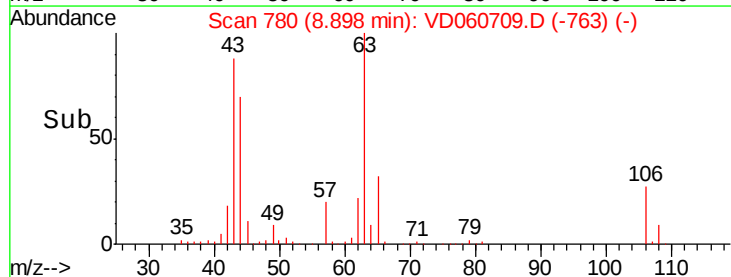
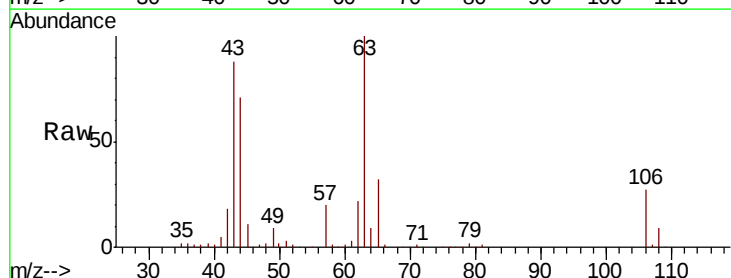
Manual Integrations
 APPROVED

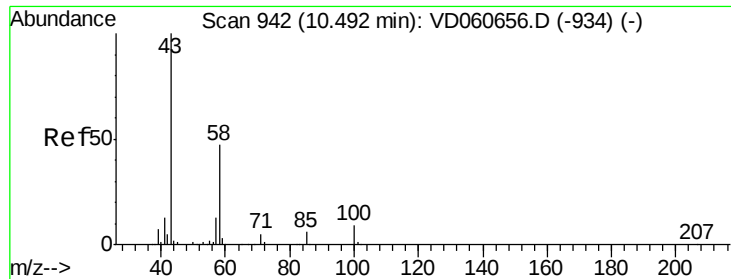
apatel
 12/27/2018 10:47:55 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 226.260 ug/l
 RT: 8.90 min Scan# 780
 Delta R.T. -0.03 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Tgt Ion: 63 Resp: 1289302
 Ion Ratio Lower Upper
 63 100
 106 26.9 22.4 33.6





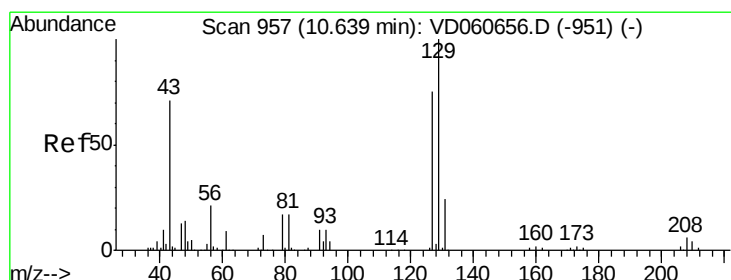
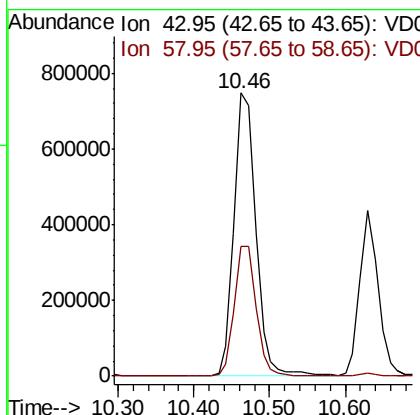
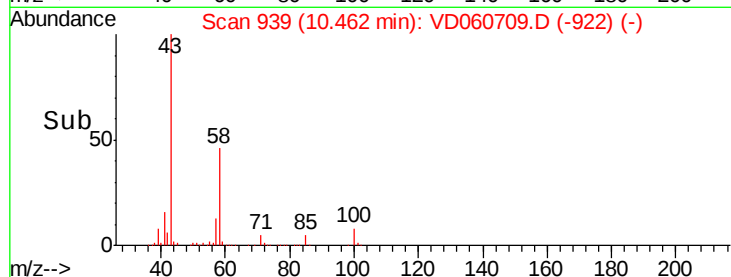
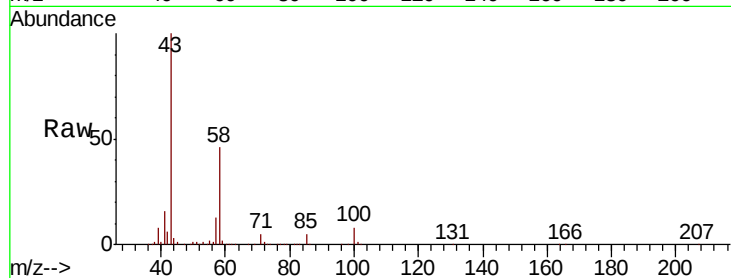
#59
2-Hexanone
Concen: 271.705 ug/l
RT: 10.46 min Scan# 939
Delta R.T. -0.03 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1494474
Ion Ratio Lower Upper
43 100
58 45.8 23.5 70.5

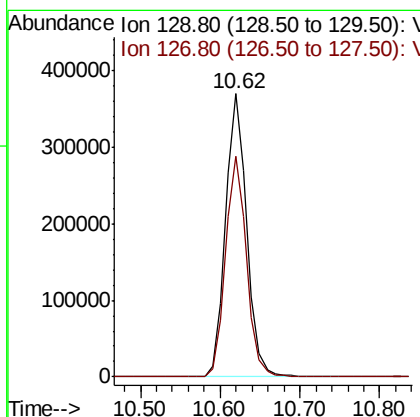
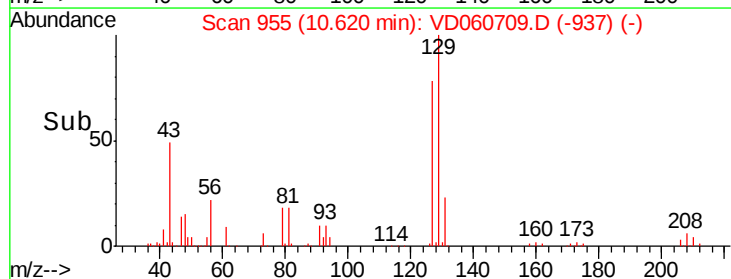
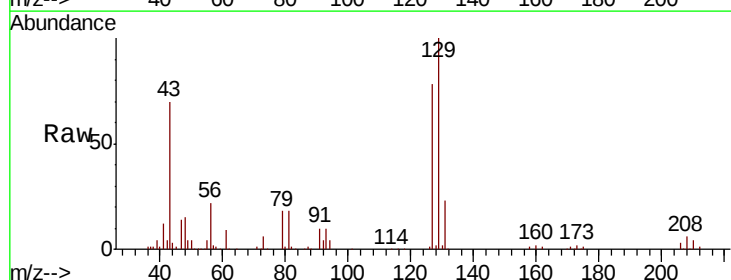
Manual Integrations
APPROVED

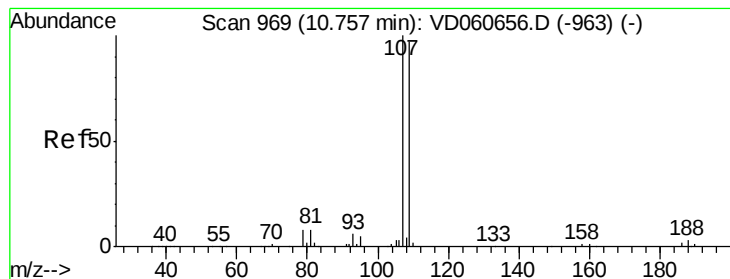
apatel
12/27/2018 10:47:55 AM



#60
Dibromochloromethane
Concen: 52.311 ug/l
RT: 10.62 min Scan# 955
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion: 129 Resp: 693760
Ion Ratio Lower Upper
129 100
127 78.1 37.6 112.9





#61

1,2-Dibromoethane

Concen: 51.585 ug/l

RT: 10.74 min Scan# 967

Delta R.T. -0.02 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 557098

Ion Ratio Lower Upper

107 100

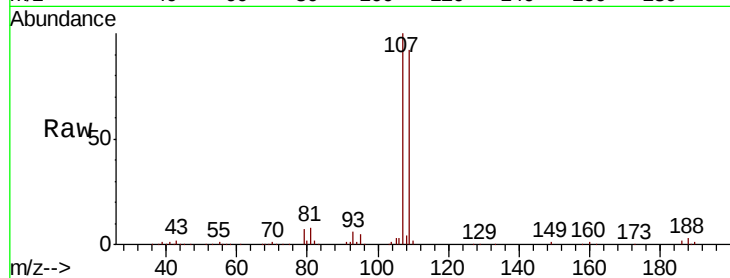
109 91.9 78.0 117.0

Manual Integrations

APPROVED

apatel

12/27/2018 10:47:55 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

10.74

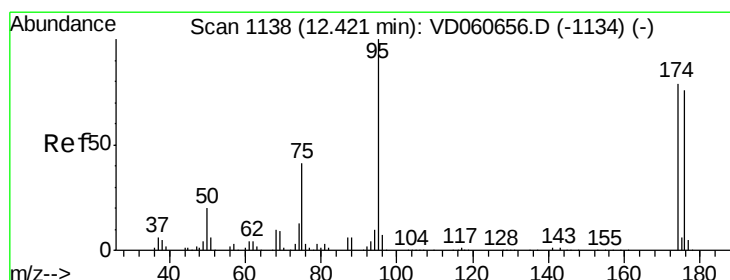
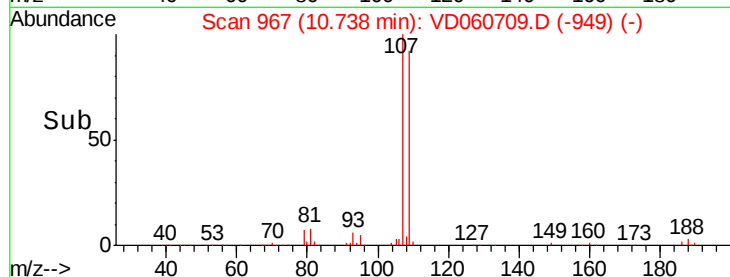
300000

200000

100000

0

Time--> 10.60 10.70 10.80 10.90



#62

4-Bromofluorobenzene

Concen: 51.585 ug/l

RT: 12.41 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

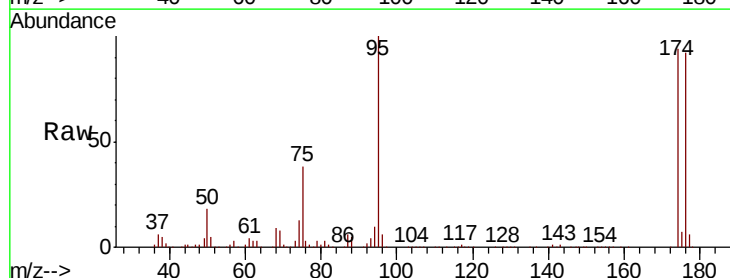
Tgt Ion: 95 Resp: 959757

Ion Ratio Lower Upper

95 100

174 93.6 0.0 158.2

176 92.0 0.0 152.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

800000

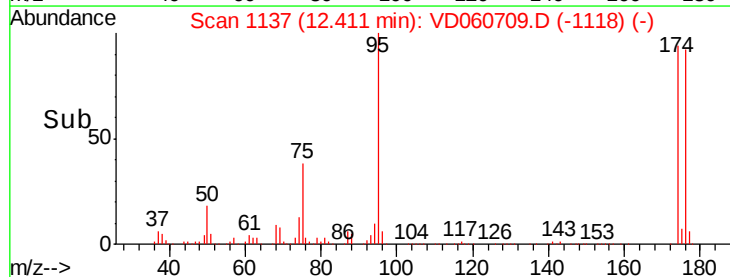
600000

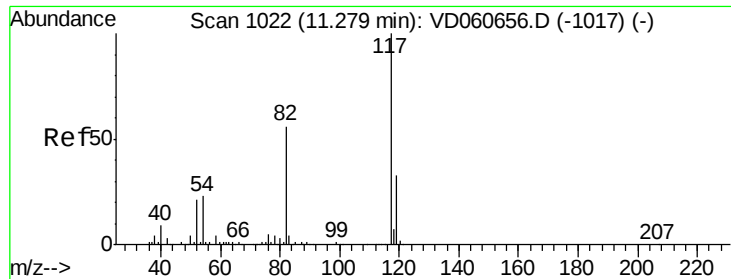
400000

200000

0

Time--> 12.30 12.40 12.50





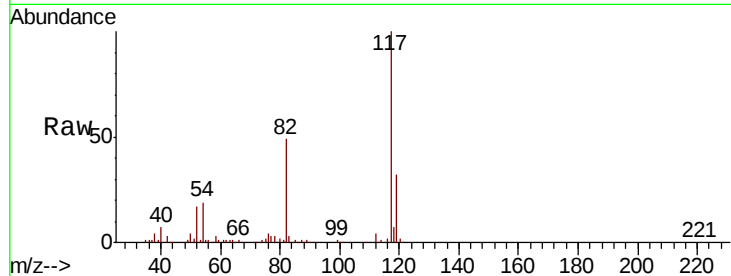
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.27 min Scan# 1021
Delta R.T. -0.01 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	48.9	44.5	66.7
119	32.5	26.3	39.5

Manual Integrations
APPROVED

apatel
12/27/2018 10:47:55 AM

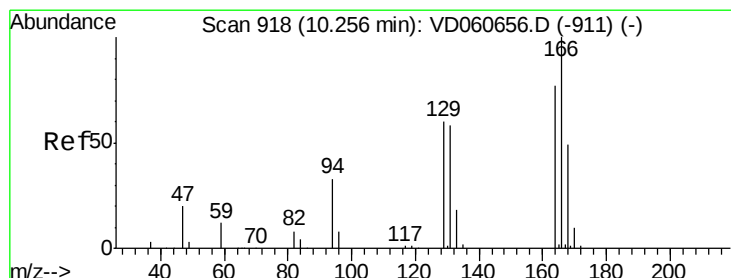
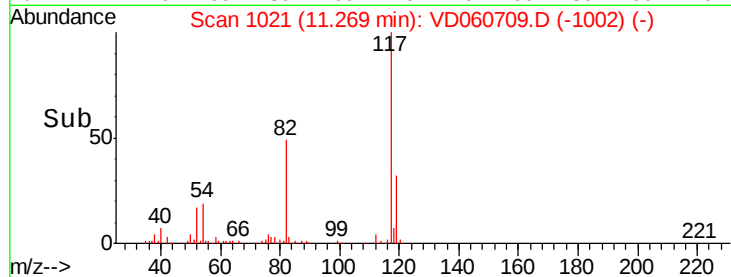
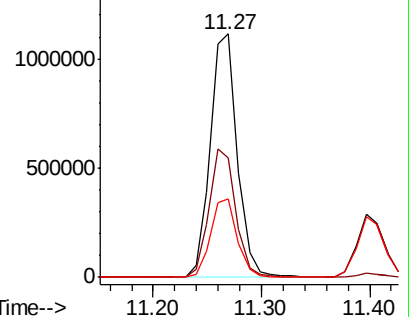


Abundance

Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64
Tetrachloroethene
Concen: 48.213 ug/l
RT: 10.23 min Scan# 915
Delta R.T. -0.03 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.1	104.4	156.6
129	80.6	62.7	94.1
131	76.4	61.1	91.7

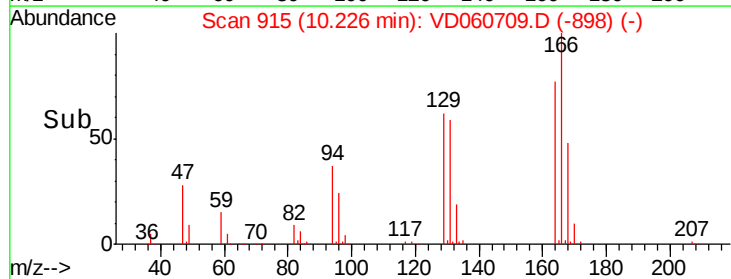
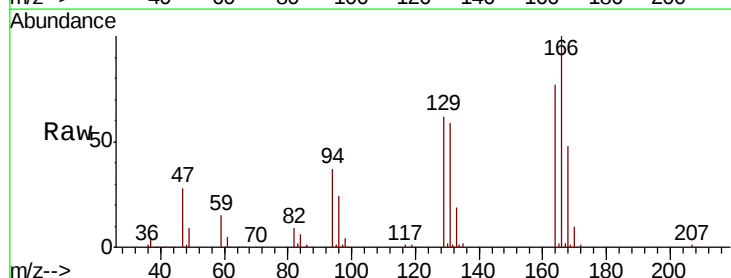
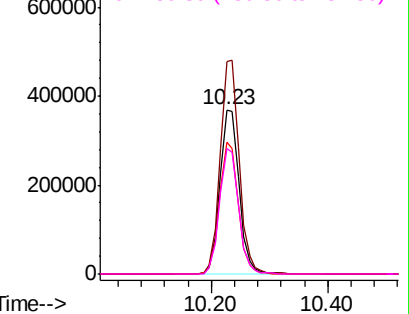
Abundance

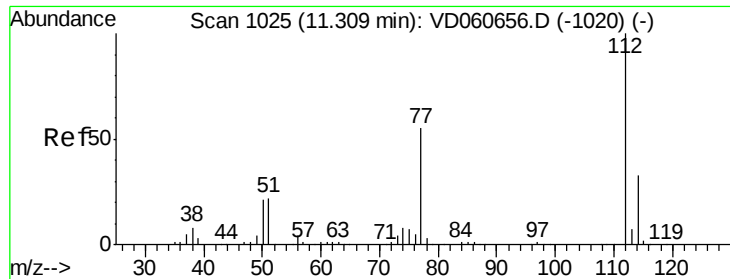
Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





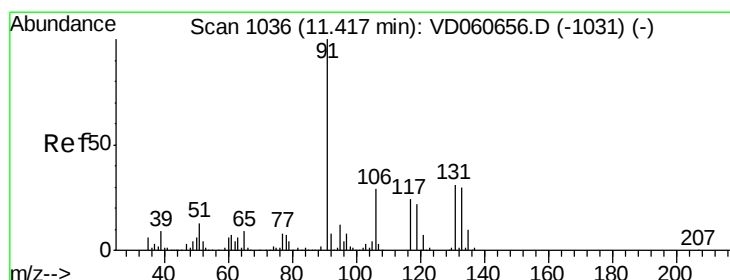
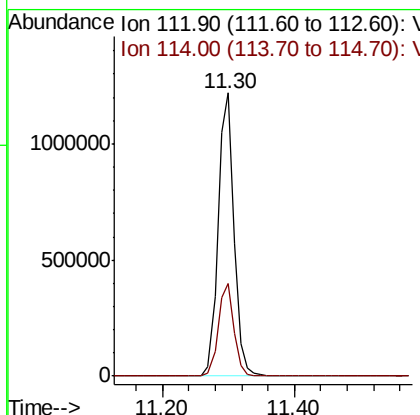
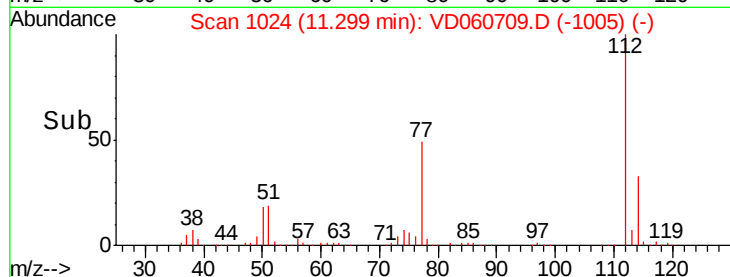
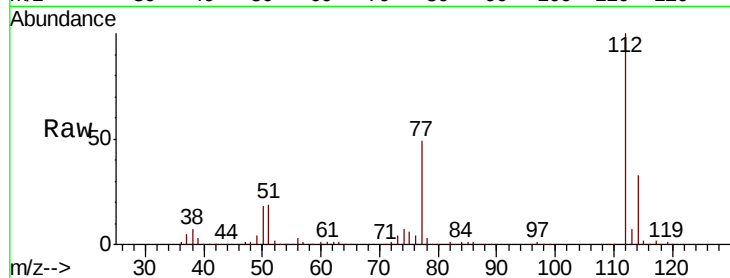
#65
Chlorobenzene
Concen: 47.720 ug/l
RT: 11.30 min Scan# 1024
Delta R.T. -0.01 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 2029918
Ion Ratio Lower Upper
112 100
114 32.8 26.1 39.1

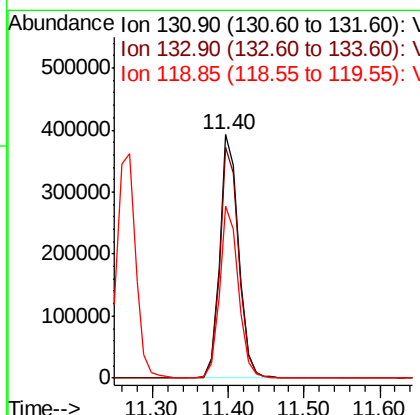
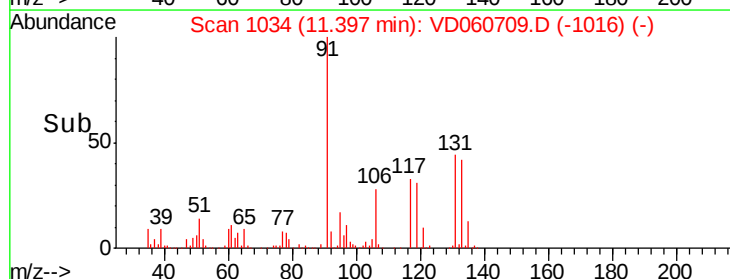
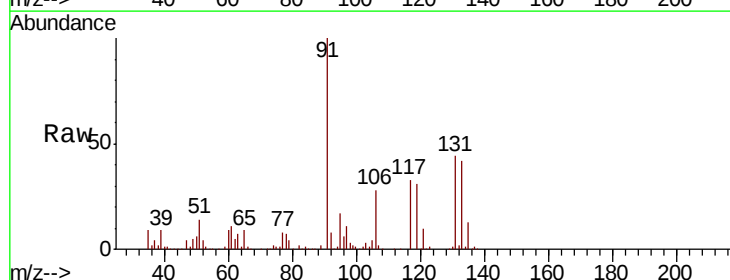
Manual Integrations
APPROVED

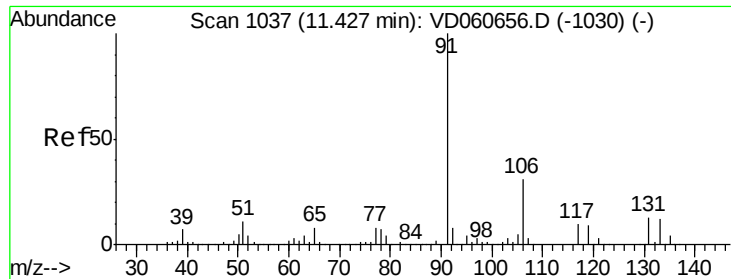
apatel
12/27/2018 10:47:55 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.005 ug/l
RT: 11.40 min Scan# 1034
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion:131 Resp: 683929
Ion Ratio Lower Upper
131 100
133 94.8 49.1 147.3
119 70.9 36.6 109.8





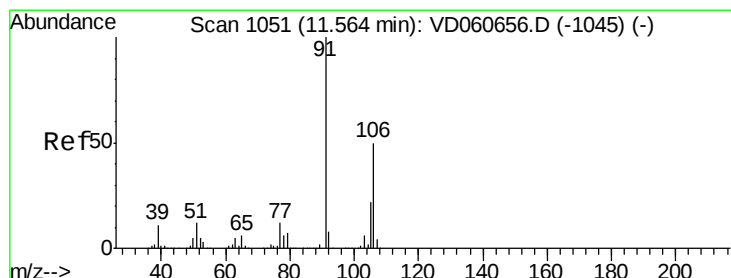
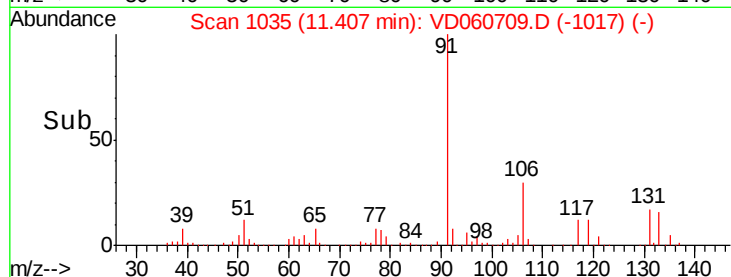
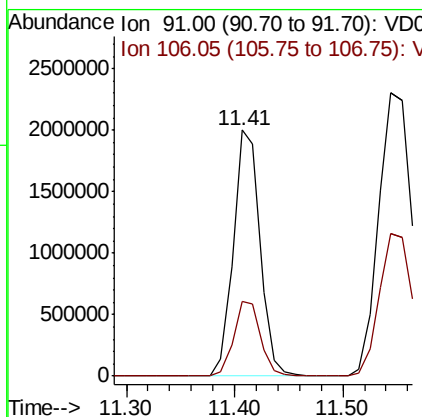
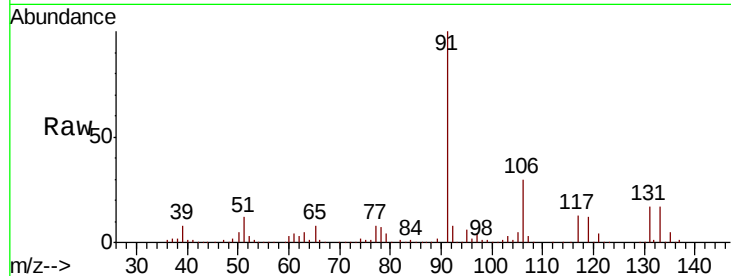
#67
Ethyl Benzene
Concen: 47.139 ug/l
RT: 11.41 min Scan# 1035
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 3434104
Ion Ratio Lower Upper
91 100
106 30.3 24.6 36.8

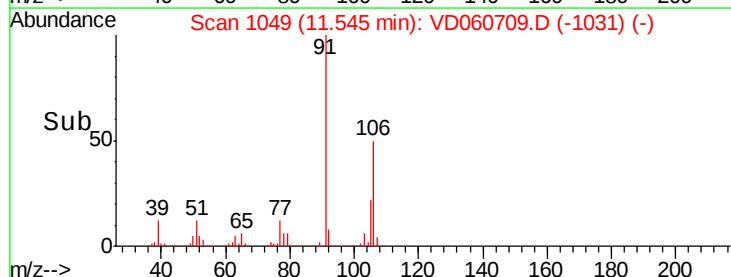
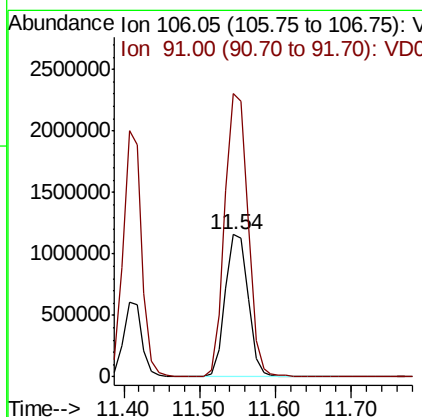
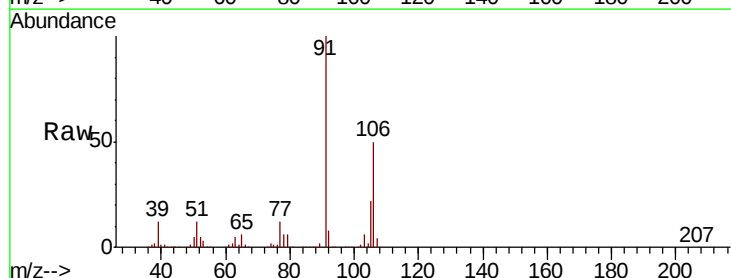
Manual Integrations
APPROVED

apatel
12/27/2018 10:47:55 AM



#68
m/p-Xylenes
Concen: 90.725 ug/l
RT: 11.54 min Scan# 1049
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion: 106 Resp: 2415416
Ion Ratio Lower Upper
106 100
91 199.3 158.9 238.3





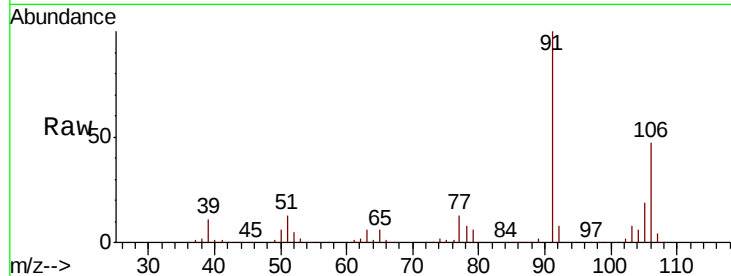
#69
o-Xylene
Concen: 47.804 ug/l
RT: 11.92 min Scan# 1087
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleID :
VSTDCCC050

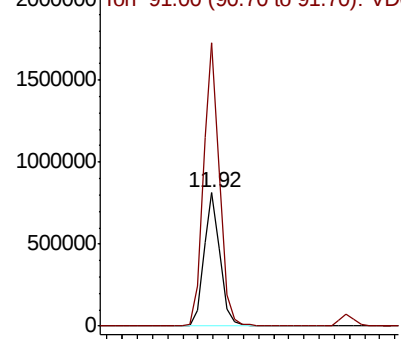
Tot Ion:106 Resp: 1207470
Ion Ratio Lower Upper
106 100
91 212.8 101.5 304.5

Manual Integrations
APPROVED

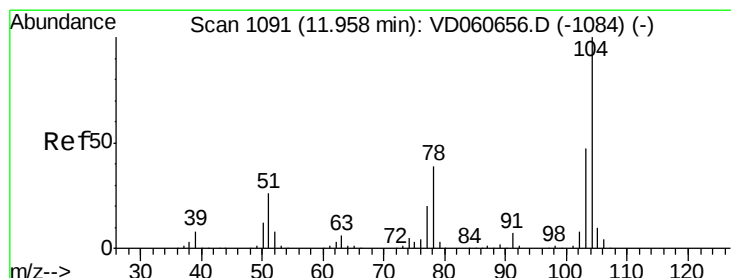
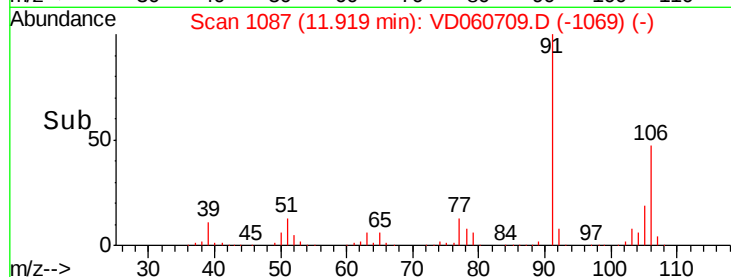
apatel
12/27/2018 10:47:55 AM



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

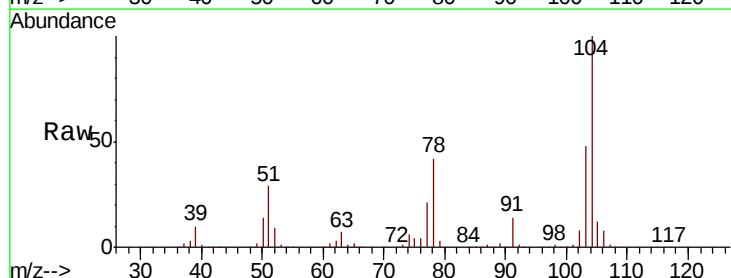


Time-->

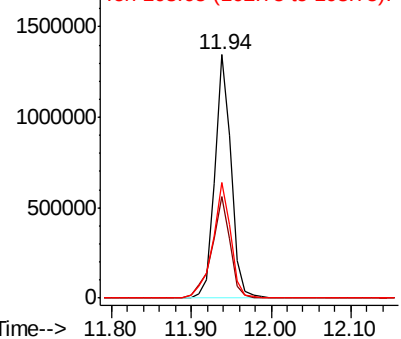


#70
Styrene
Concen: 47.773 ug/l
RT: 11.94 min Scan# 1089
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

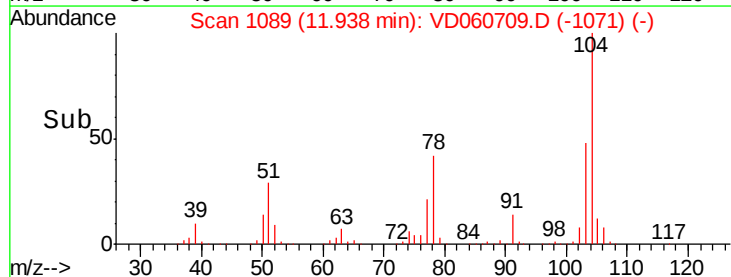
Tgt Ion:104 Resp: 1943428
Ion Ratio Lower Upper
104 100
78 41.8 31.4 47.2
103 47.5 37.5 56.3

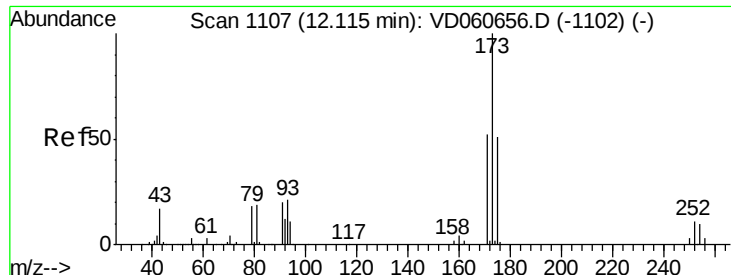


Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V



Time-->





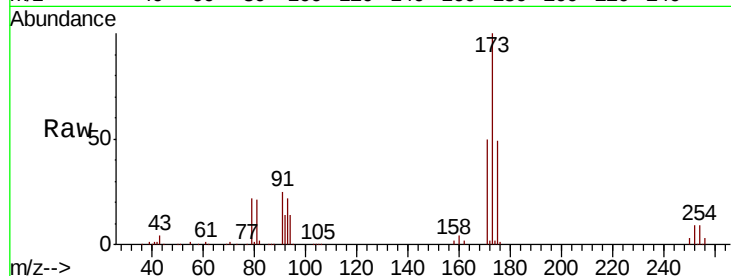
#71
Bromoform
Concen: 50.965 ug/l
RT: 12.10 min Scan# 1105
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.3	25.5	76.5
254	8.7	7.9	11.9

Manual Integrations
APPROVED

apatel
12/27/2018 10:47:55 AM

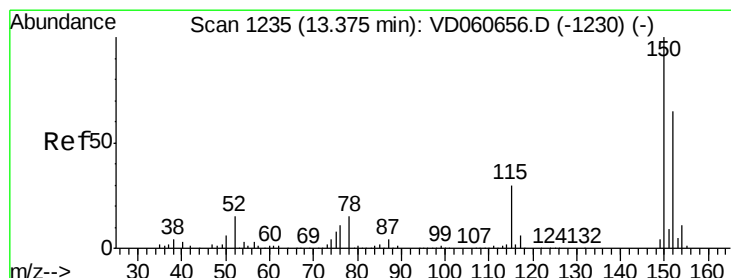
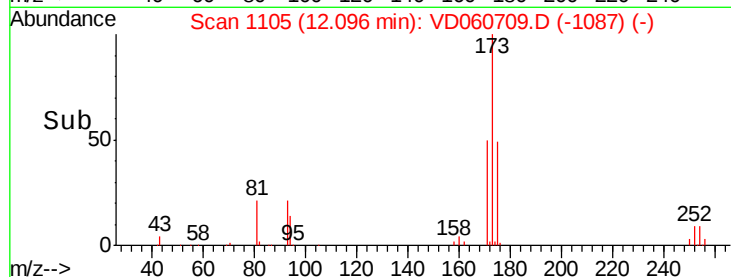
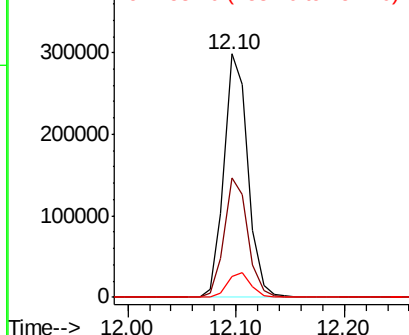


Abundance

Ion 172.80 (172.50 to 173.50): V

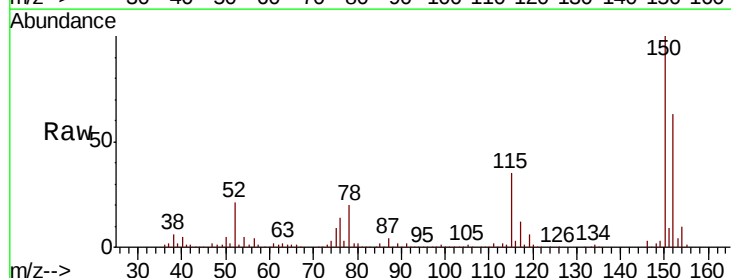
Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.36 min Scan# 1233
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.1	24.1	72.3
150	158.5	0.0	315.0

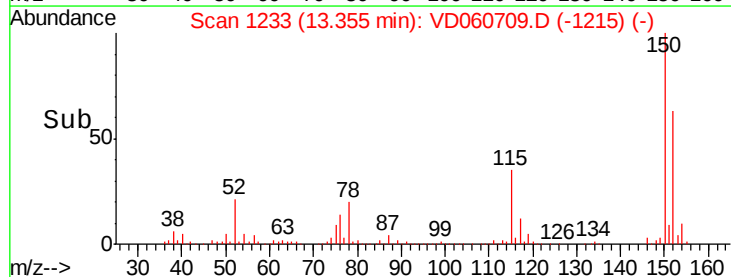
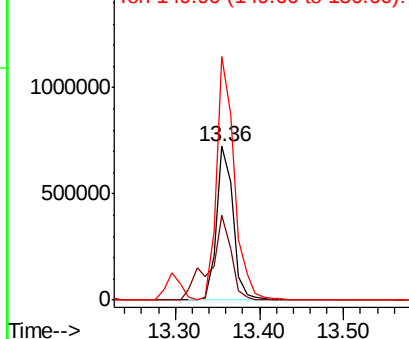


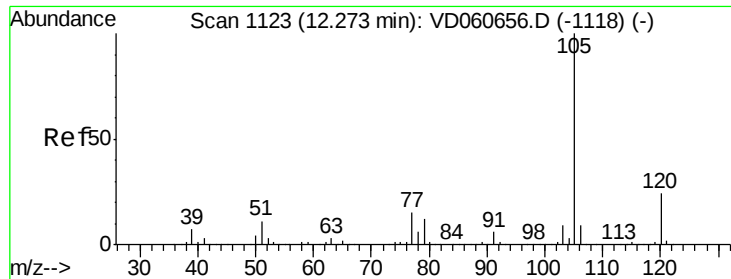
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





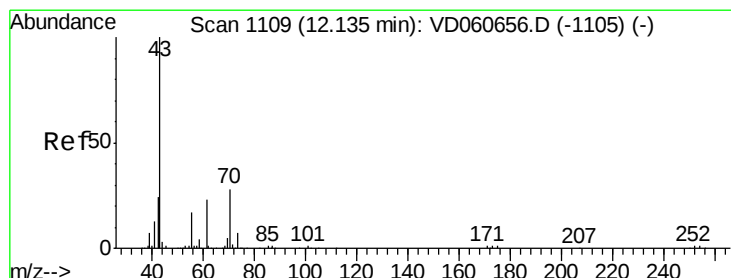
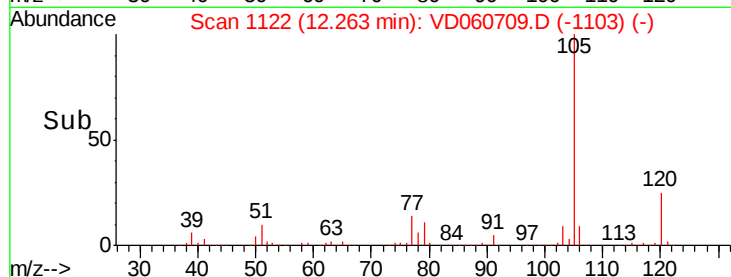
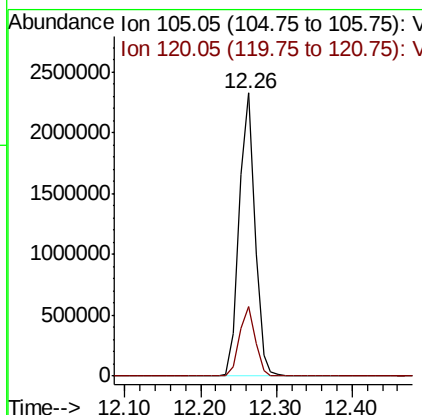
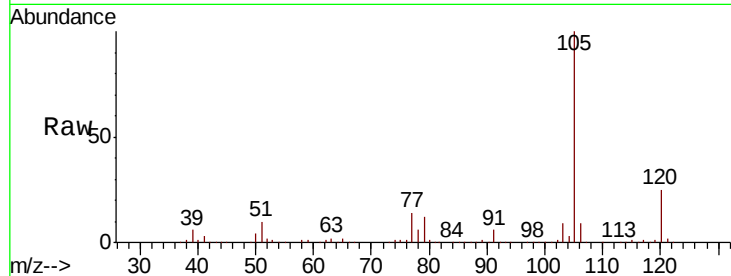
#73
Isopropylbenzene
Concen: 47.356 ug/l
RT: 12.26 min Scan# 1122
Delta R.T. -0.01 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 105 Resp: 3308553
Ion Ratio Lower Upper
105 100
120 24.8 12.2 36.4

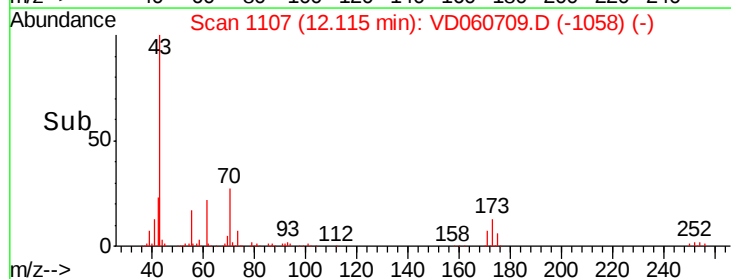
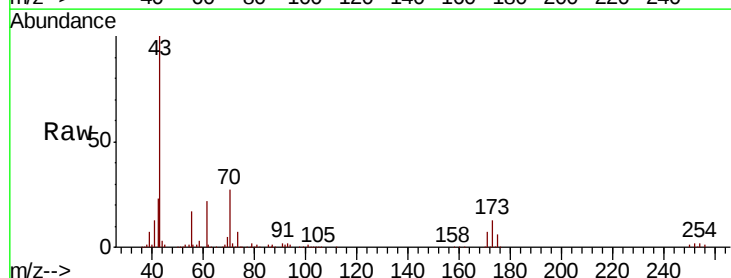
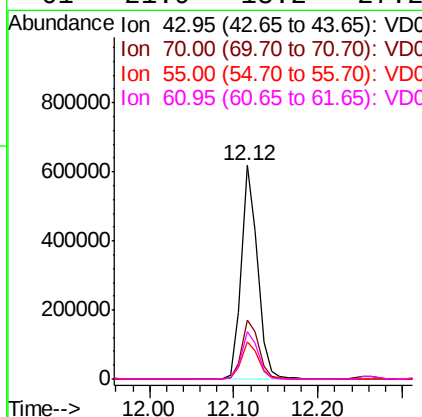
Manual Integrations
APPROVED

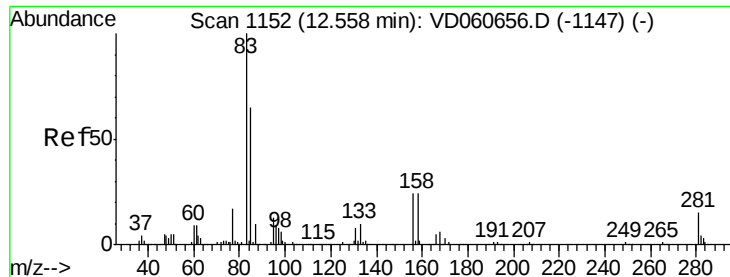
apatel
12/27/2018 10:47:55 AM



#74
N-ethyl acetate
Concen: 50.260 ug/l
RT: 12.12 min Scan# 1107
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion: 43 Resp: 828738
Ion Ratio Lower Upper
43 100
70 27.3 22.2 33.2
55 17.3 13.8 20.8
61 21.9 18.2 27.2





#75

1,1,2,2-Tetrachloroethane

Concen: 49.239 ug/l

RT: 12.55 min Scan# 1151

Delta R.T. -0.01 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Instrument :

MSVOA_D

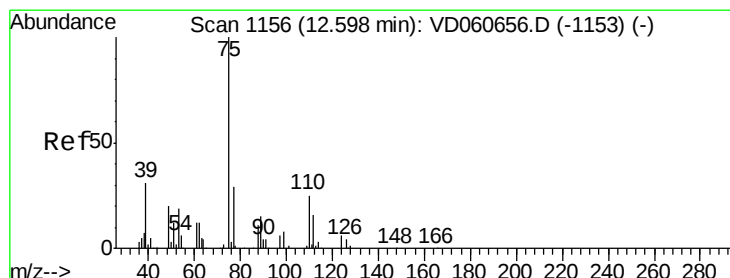
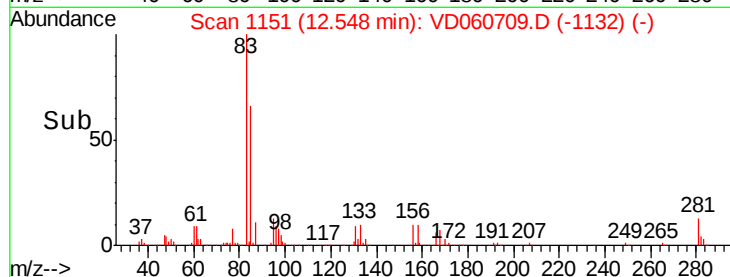
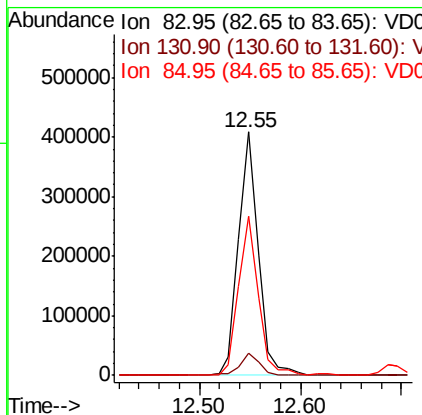
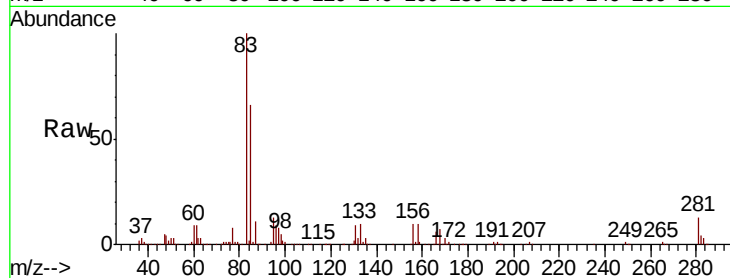
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	557607
Ion Ratio		Lower	Upper
83	100		
131	8.9	4.2	12.4
85	65.6	32.6	97.7

Manual Integrations
APPROVED

apatel
12/27/2018 10:47:55 AM



#76

1,2,3-Trichloropropane

Concen: 49.611 ug/l

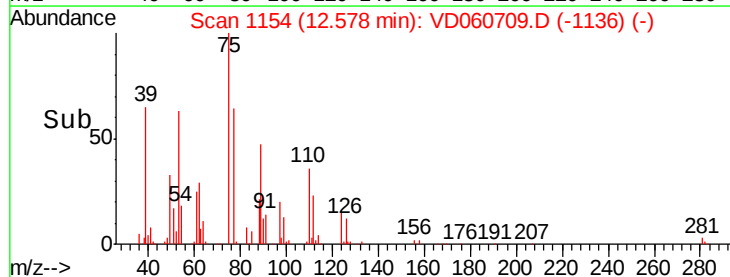
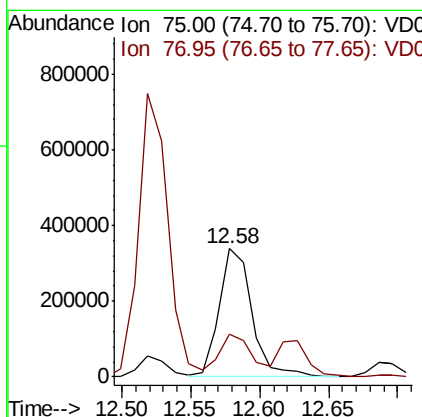
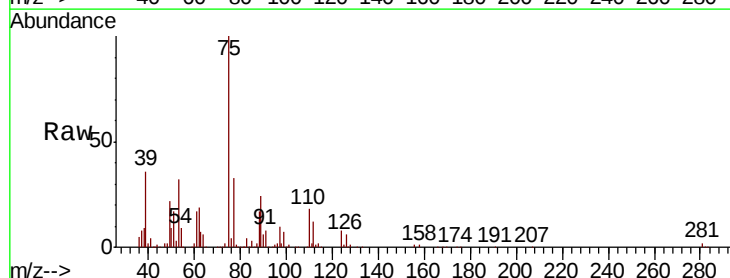
RT: 12.58 min Scan# 1154

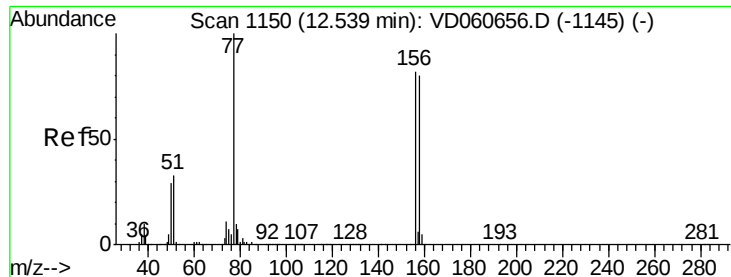
Delta R.T. -0.02 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Tgt Ion:	75	Resp:	554234
Ion Ratio		Lower	Upper
75	100		
77	33.1	16.7	50.0





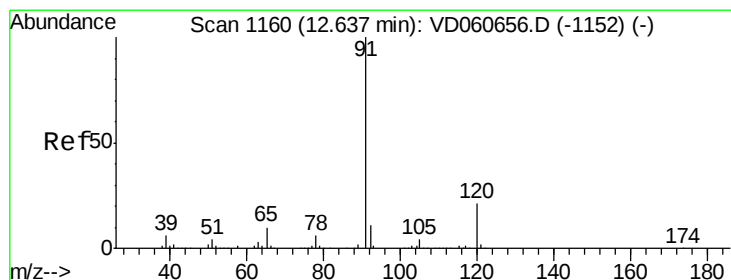
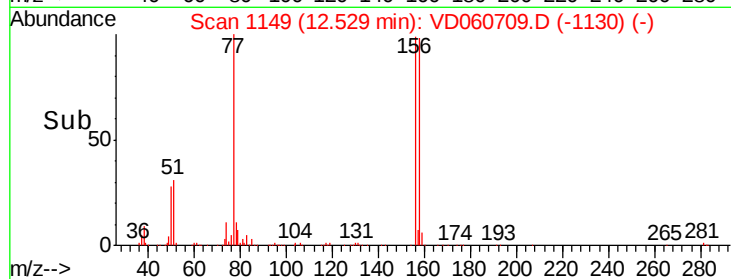
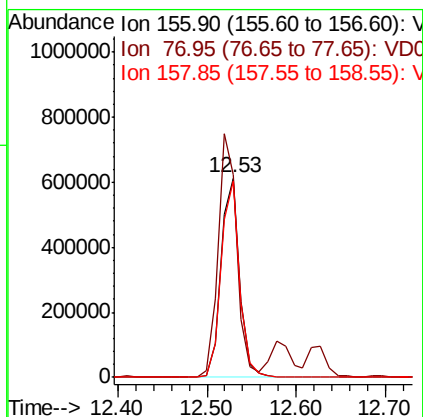
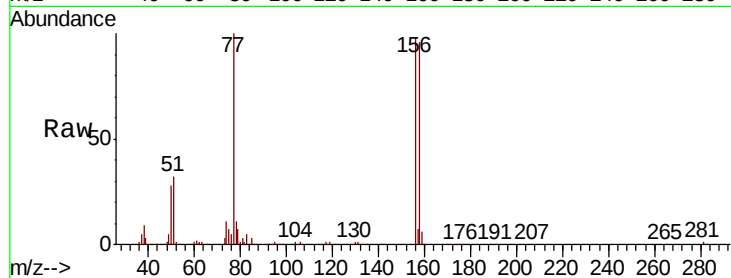
#77
Bromobenzene
Concen: 48.804 ug/l
RT: 12.53 min Scan# 1149
Delta R.T. -0.01 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	102.1	61.3	183.9
158	98.4	48.9	146.6

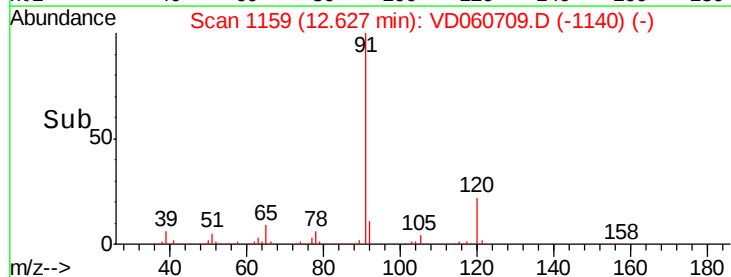
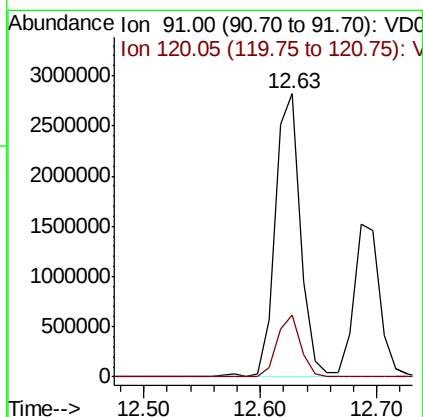
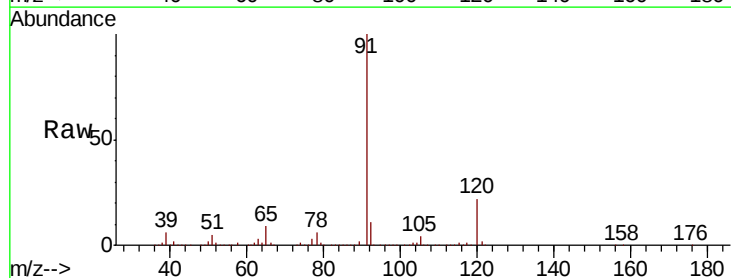
Manual Integrations
APPROVED

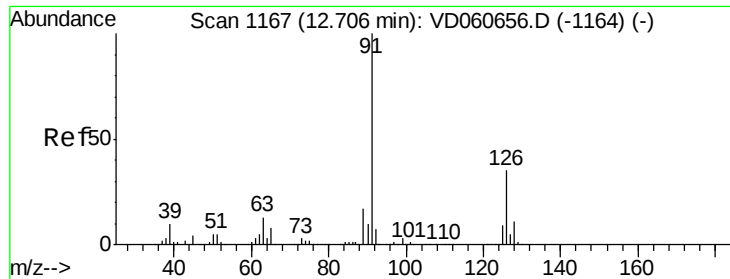
apatel
12/27/2018 10:47:55 AM



#78
n-propylbenzene
Concen: 47.414 ug/l
RT: 12.63 min Scan# 1159
Delta R.T. -0.01 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.9	10.4	31.2





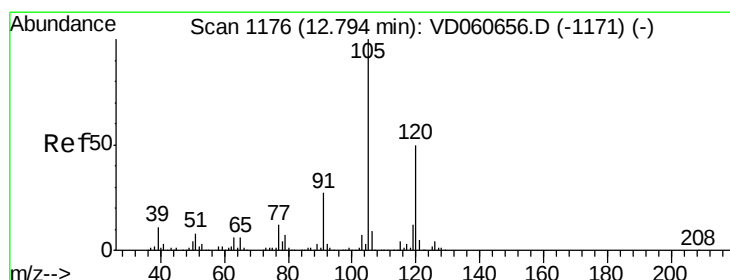
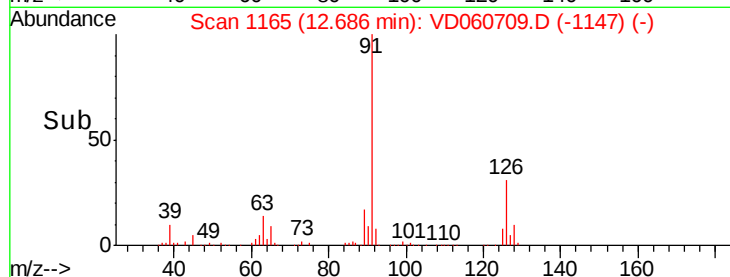
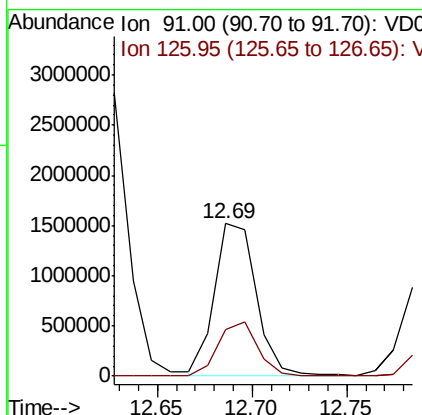
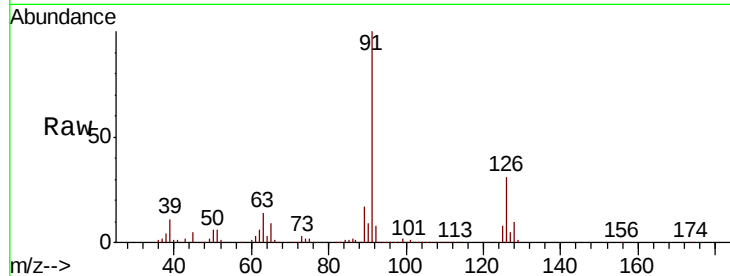
#79
2-Chlorotoluene
Concen: 48.400 ug/l
RT: 12.69 min Scan# 1165
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 2315466
Ion Ratio Lower Upper
91 100
126 30.8 17.2 51.5

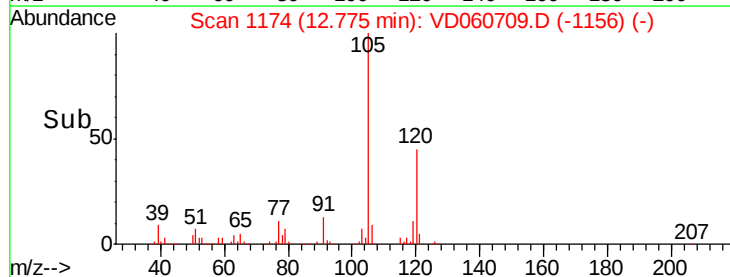
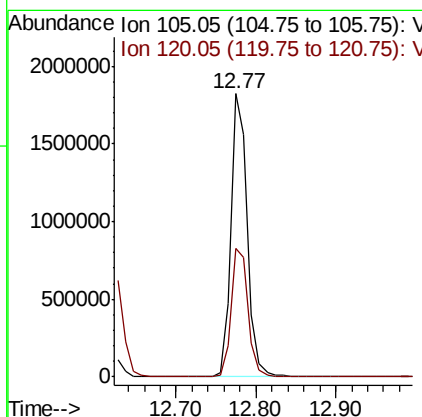
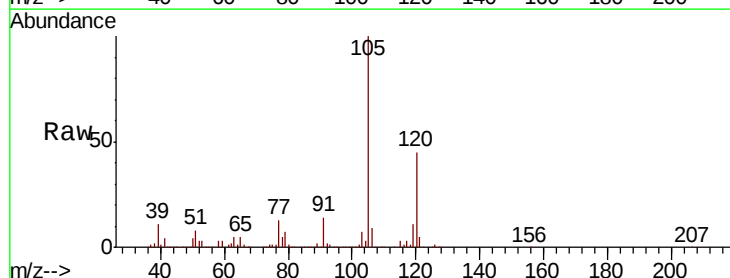
Manual Integrations
APPROVED

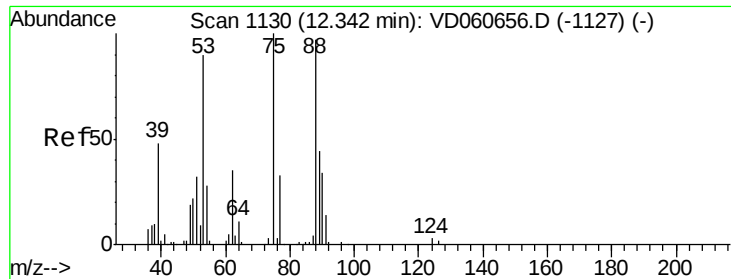
apatel
12/27/2018 10:47:55 AM



#80
1,3,5-Trimethylbenzene
Concen: 48.326 ug/l
RT: 12.77 min Scan# 1174
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion: 105 Resp: 2607149
Ion Ratio Lower Upper
105 100
120 45.3 24.8 74.4





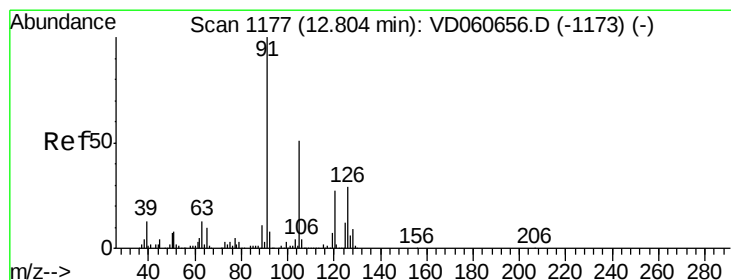
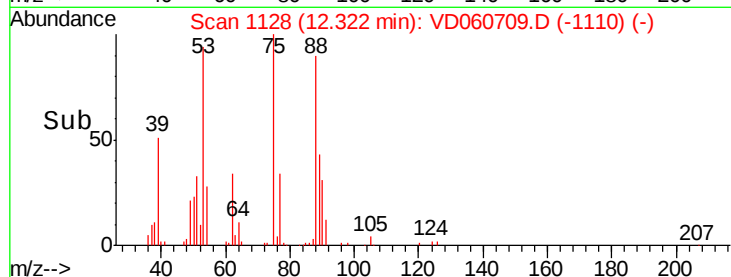
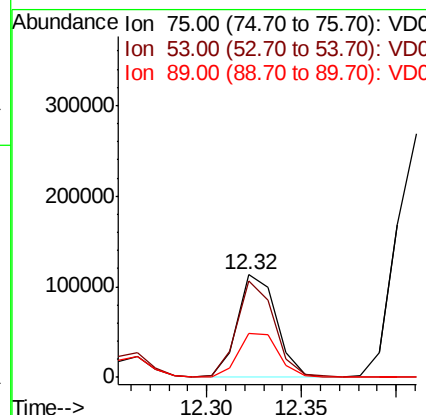
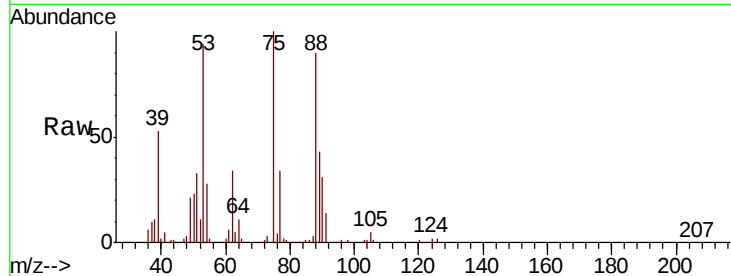
#81
trans-1,4-Dichloro-2-butene
Concen: 51.868 ug/l
RT: 12.32 min Scan# 1128
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	94.1	72.1	108.1
89	43.4	35.1	52.7

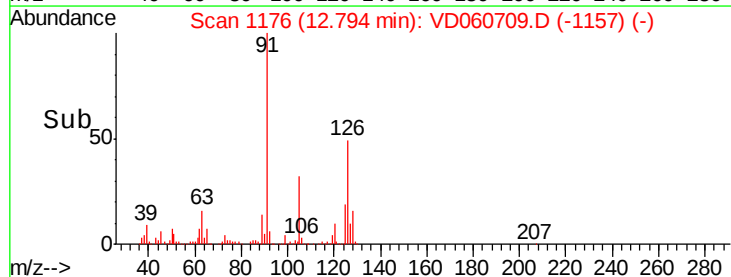
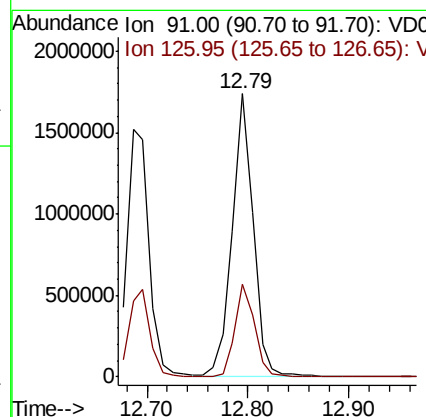
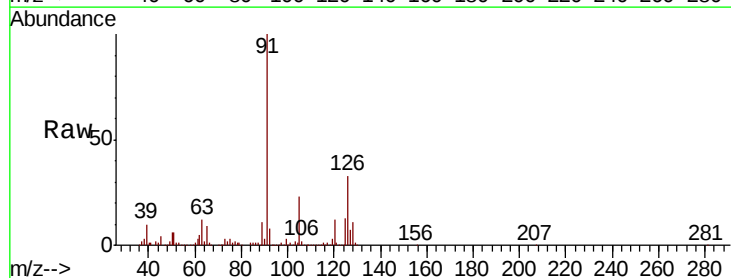
Manual Integrations
APPROVED

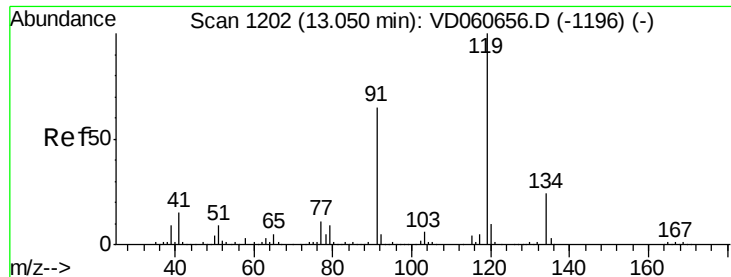
apatel
12/27/2018 10:47:55 AM



#82
4-Chlorotoluene
Concen: 45.918 ug/l
RT: 12.79 min Scan# 1176
Delta R.T. -0.01 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.8	14.6	43.8





#83

tert-Butylbenzene

Concen: 46.393 ug/l

RT: 13.03 min Scan# 1200

Delta R.T. -0.02 min

Lab File: VD060709.D

Acq: 26 Dec 2018 10:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:119 Resp: 2848432

Ion Ratio Lower Upper

119 100

91 72.4 32.5 97.4

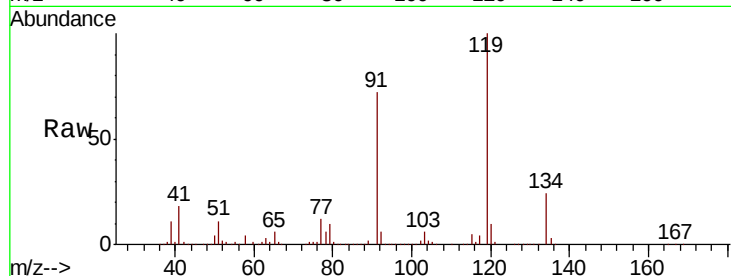
134 23.7 11.9 35.9

Manual Integrations

APPROVED

apatel

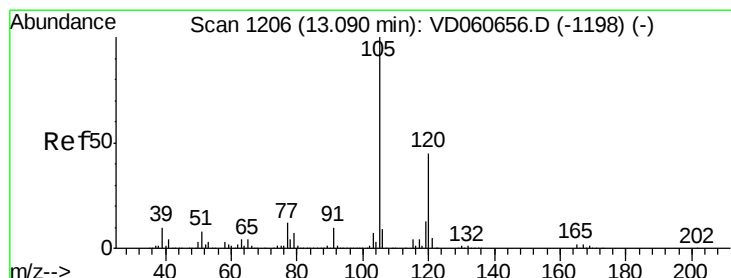
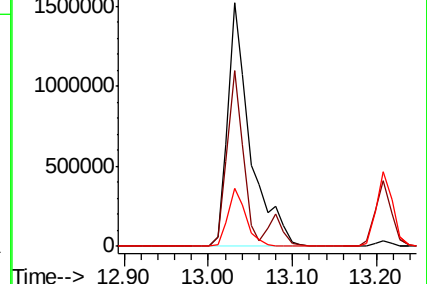
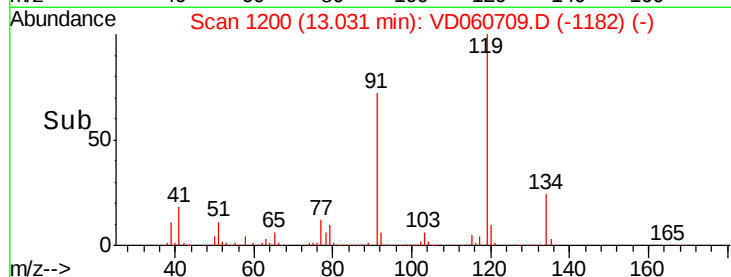
12/27/2018 10:47:55 AM



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 47.323 ug/l

RT: 13.08 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VD060709.D

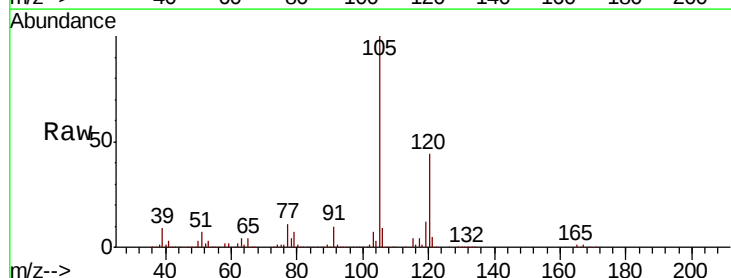
Acq: 26 Dec 2018 10:28

Tgt Ion:105 Resp: 2629454

Ion Ratio Lower Upper

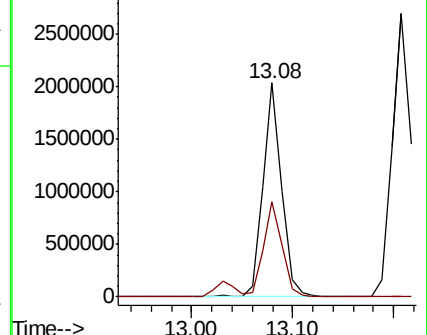
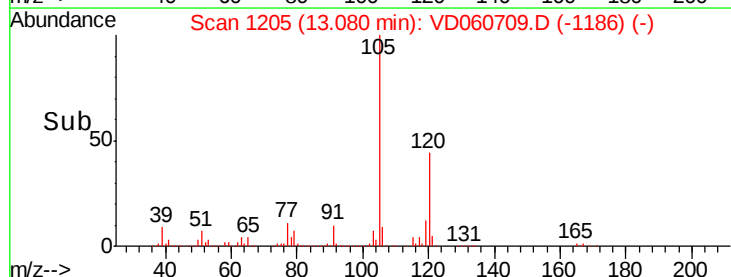
105 100

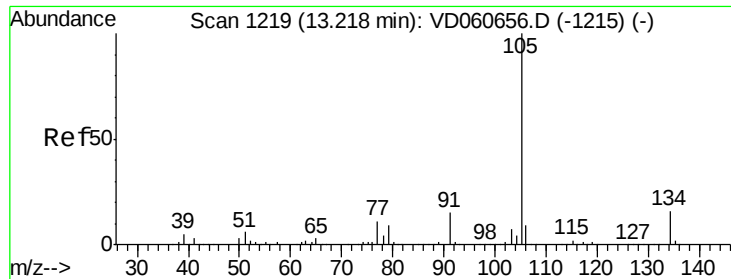
120 44.4 22.4 67.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





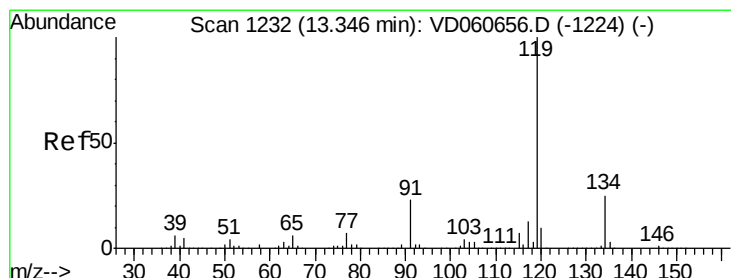
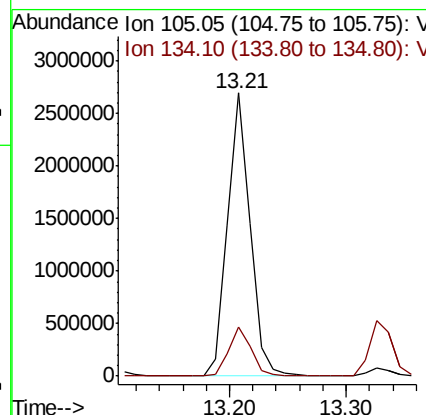
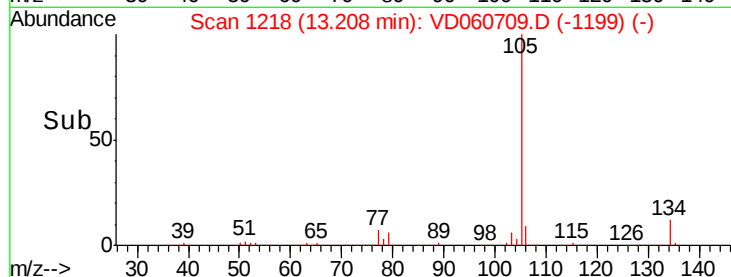
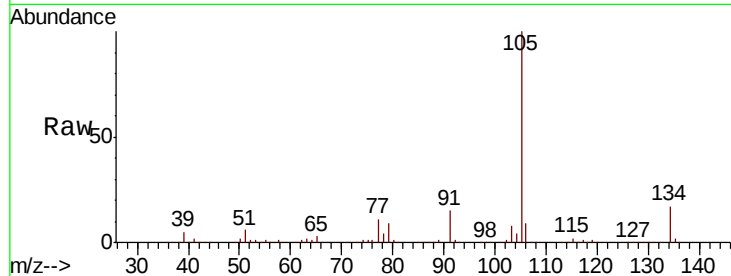
#85
 sec-Butylbenzene
 Concen: 48.200 ug/l
 RT: 13.21 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 3609041
 Ion Ratio Lower Upper
 105 100
 134 17.2 8.2 24.4

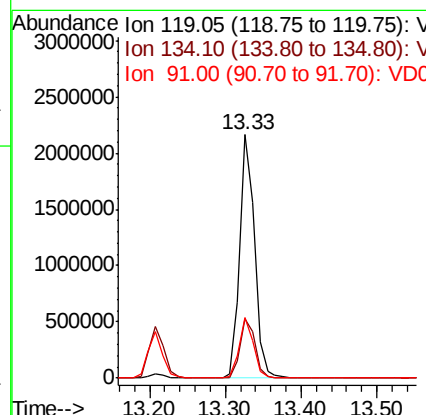
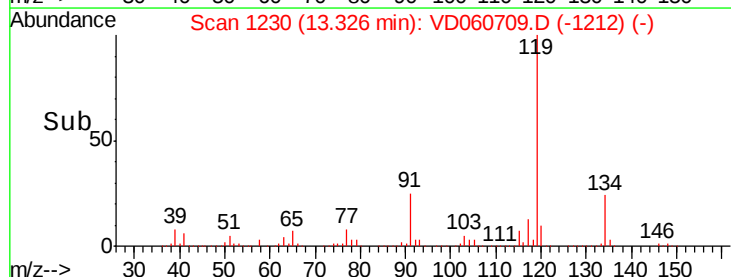
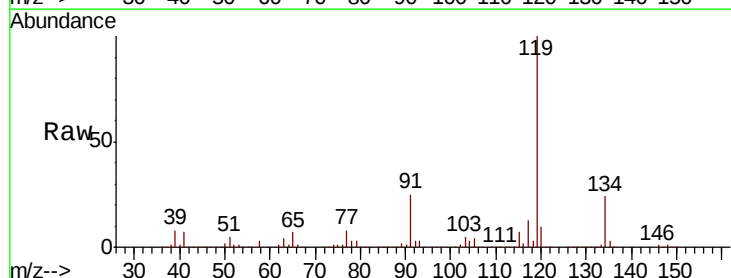
Manual Integrations
 APPROVED

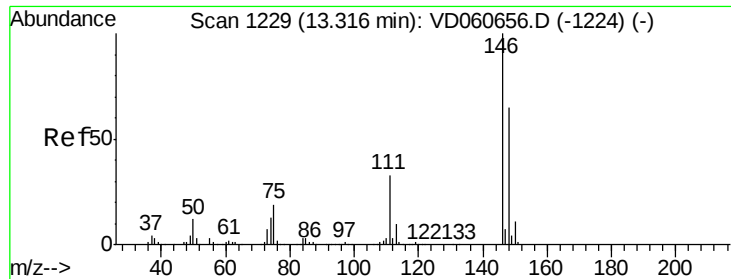
apatel
 12/27/2018 10:47:55 AM



#86
 p-Isopropyltoluene
 Concen: 47.782 ug/l
 RT: 13.33 min Scan# 1230
 Delta R.T. -0.02 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Tgt Ion:119 Resp: 2888000
 Ion Ratio Lower Upper
 119 100
 134 24.5 12.5 37.5
 91 24.7 11.4 34.2





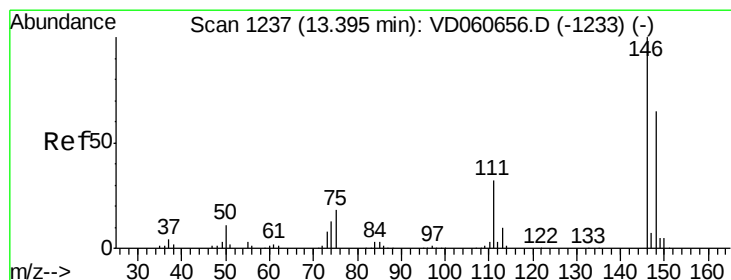
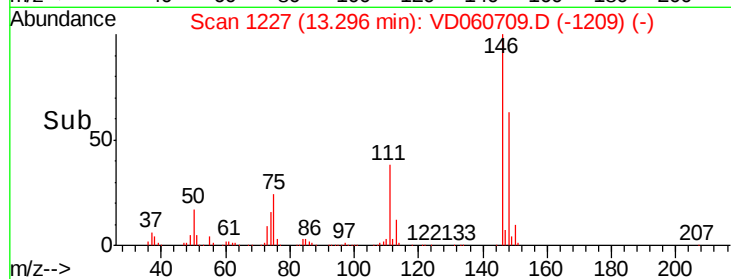
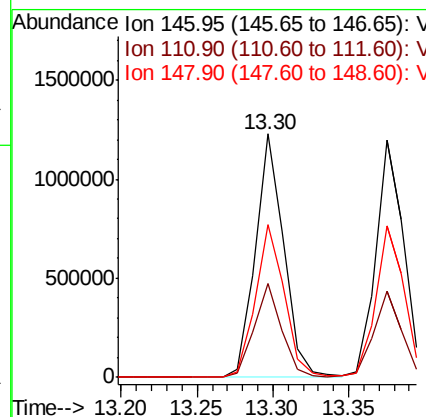
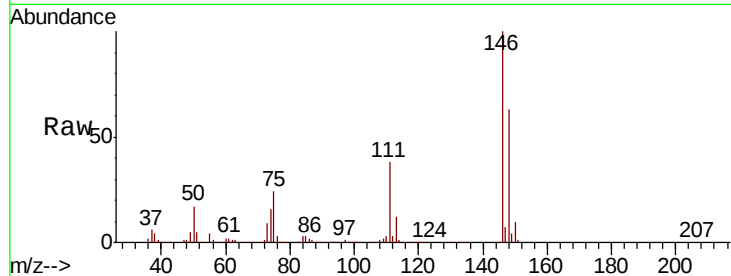
#87
 1,3-Dichlorobenzene
 Concen: 47.396 ug/l
 RT: 13.30 min Scan# 1227
 Delta R.T. -0.02 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	16.6	49.8
148	62.8	32.6	97.8

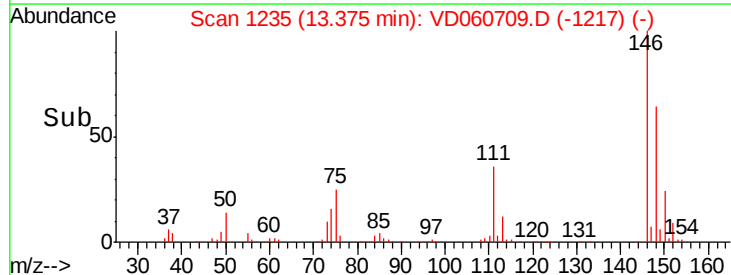
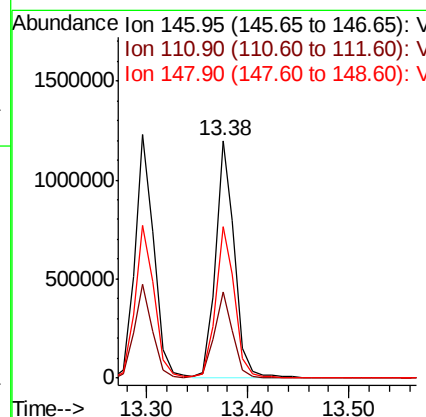
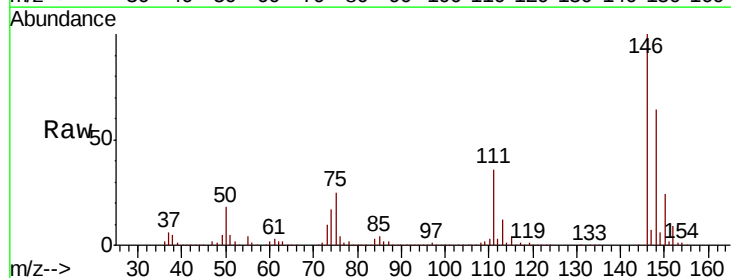
Manual Integrations
 APPROVED

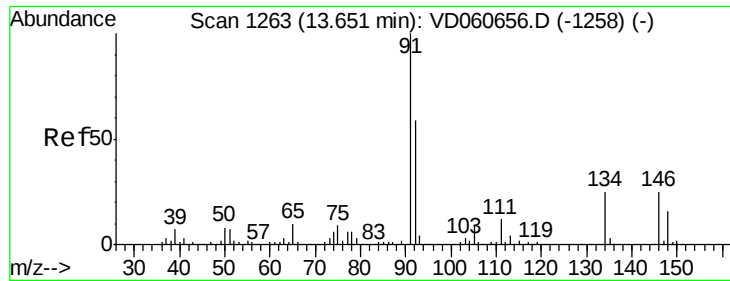
apatel
 12/27/2018 10:47:55 AM



#88
 1,4-Dichlorobenzene
 Concen: 46.979 ug/l
 RT: 13.38 min Scan# 1235
 Delta R.T. -0.02 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.4	16.2	48.5
148	63.9	32.7	98.1





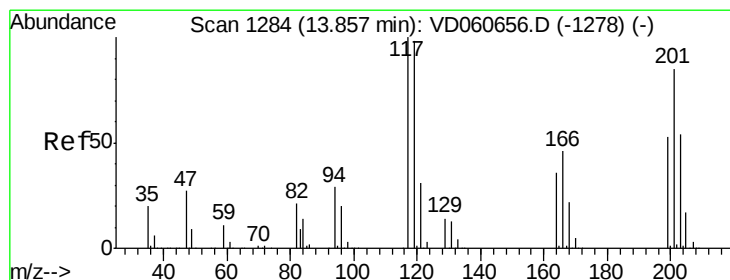
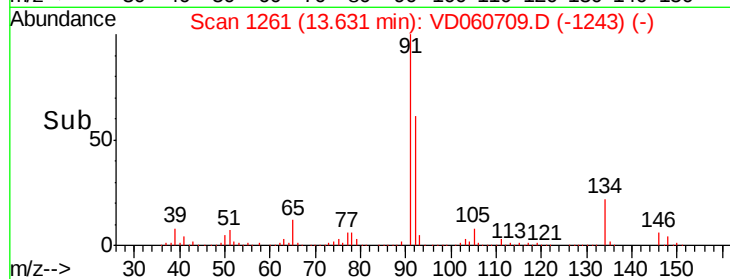
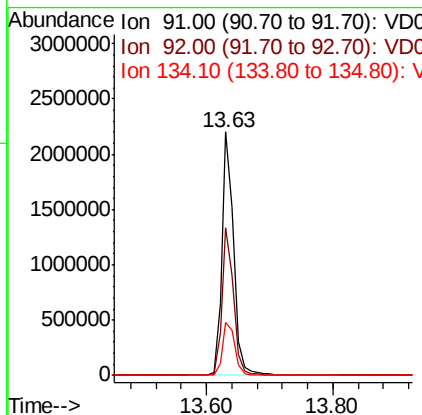
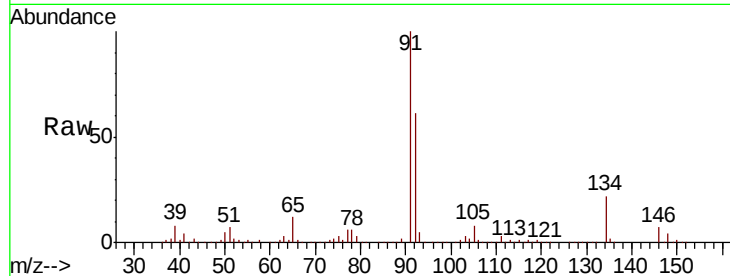
#89
n-Butylbenzene
Concen: 46.771 ug/l
RT: 13.63 min Scan# 1261
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 2888793
Ion Ratio Lower Upper
91 100
92 60.7 29.7 89.1
134 21.8 12.7 38.1

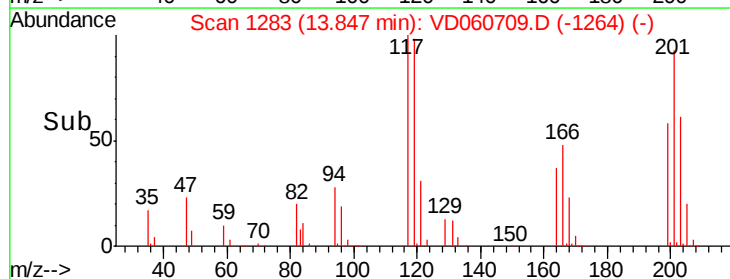
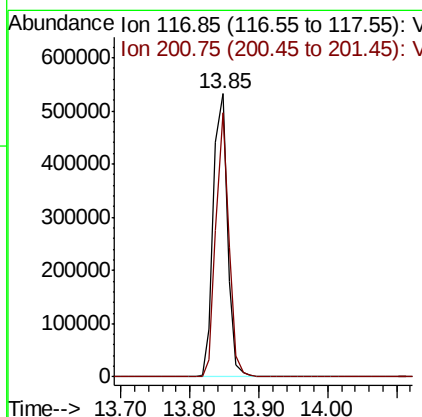
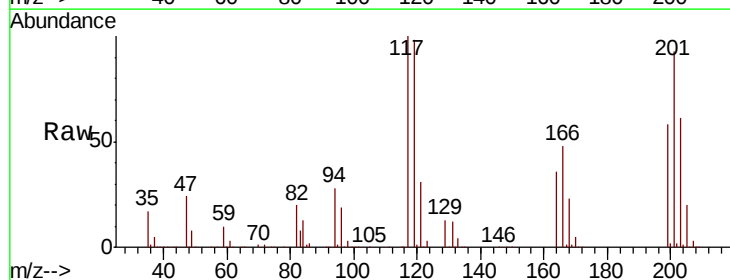
Manual Integrations
APPROVED

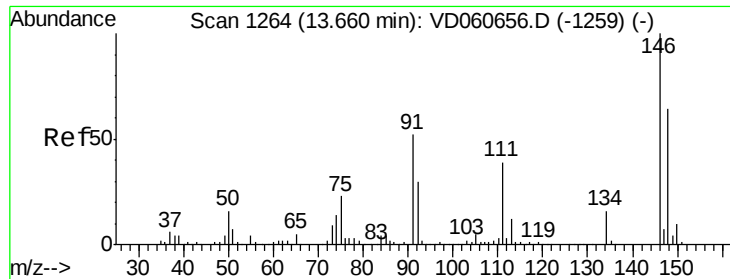
apatel
12/27/2018 10:47:55 AM



#90
Hexachloroethane
Concen: 51.283 ug/l
RT: 13.85 min Scan# 1283
Delta R.T. -0.01 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion: 117 Resp: 761462
Ion Ratio Lower Upper
117 100
201 93.2 42.6 127.8





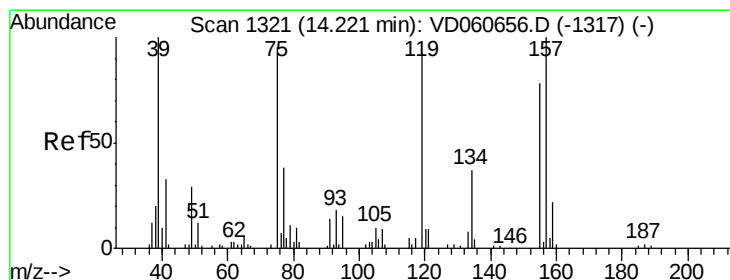
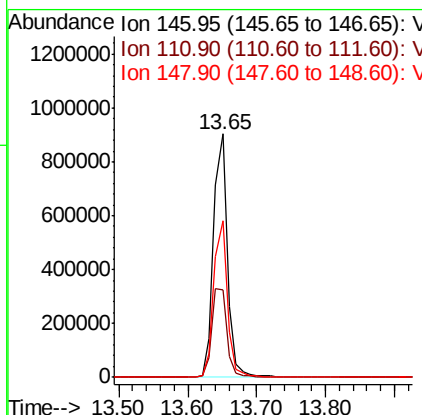
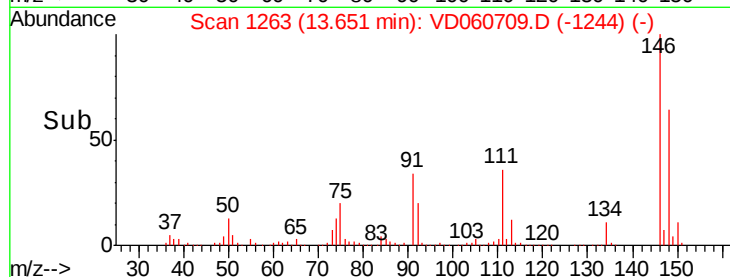
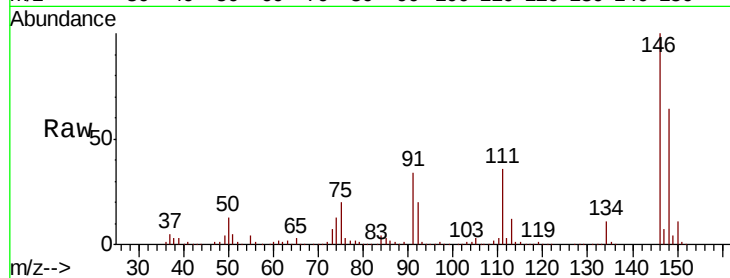
#91
 1,2-Dichlorobenzene
 Concen: 46.310 ug/l
 RT: 13.65 min Scan# 1263
 Delta R.T. -0.01 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:146 Resp: 1257883
 Ion Ratio Lower Upper
 146 100
 111 35.8 19.3 57.9
 148 64.1 31.9 95.9

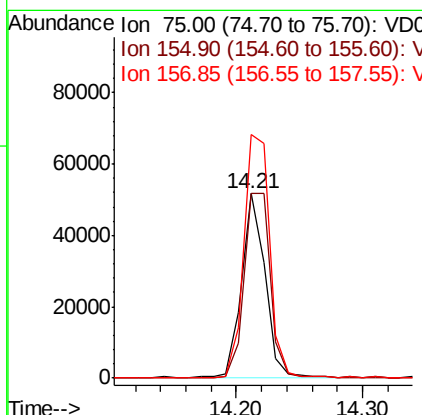
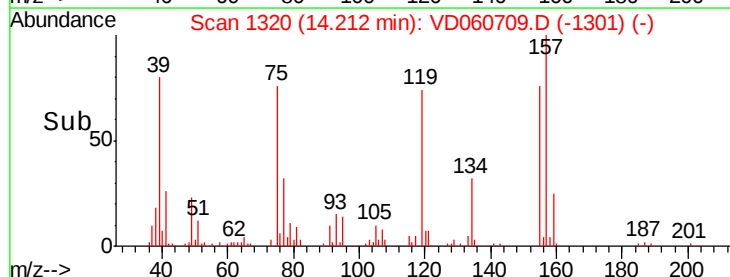
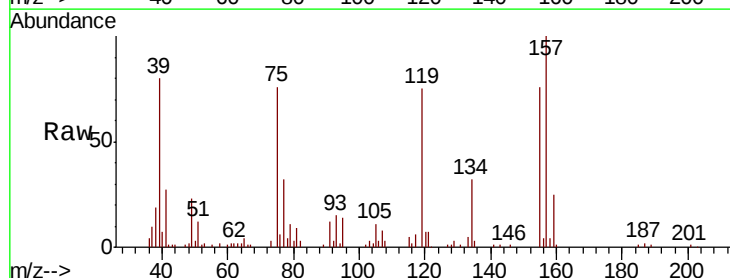
Manual Integrations
 APPROVED

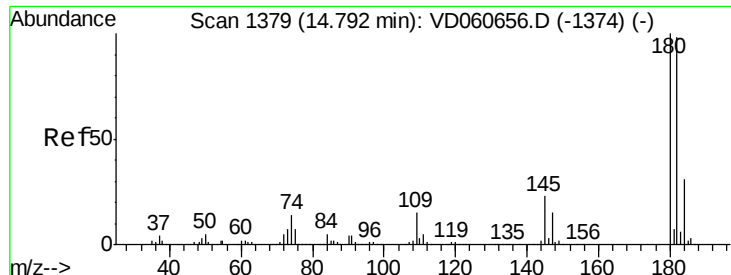
apatel
 12/27/2018 10:47:55 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 50.117 ug/l
 RT: 14.21 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Tgt Ion: 75 Resp: 66676
 Ion Ratio Lower Upper
 75 100
 155 99.9 41.1 123.4
 157 131.9 52.5 157.6





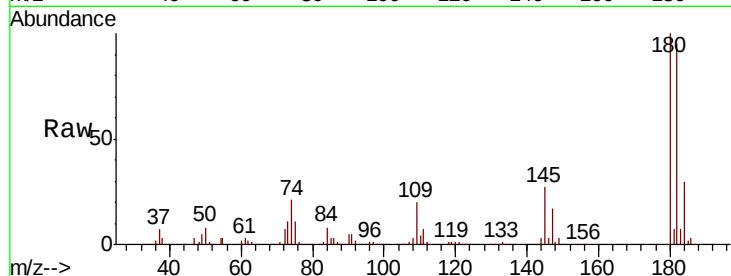
#93
 1,2,4-Trichlorobenzene
 Concen: 48.483 ug/l
 RT: 14.77 min Scan# 1377
 Delta R.T. -0.02 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

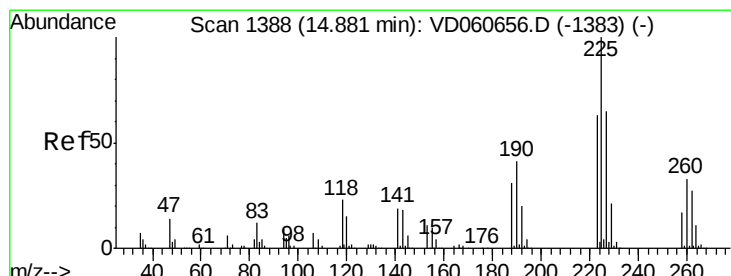
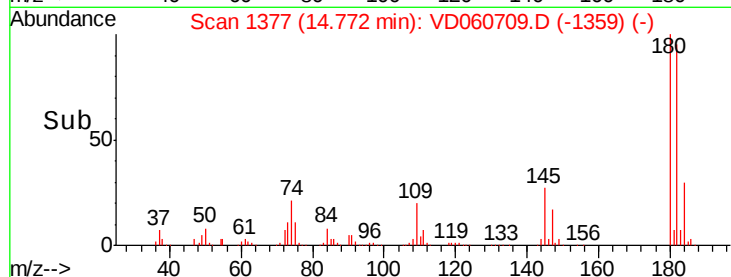
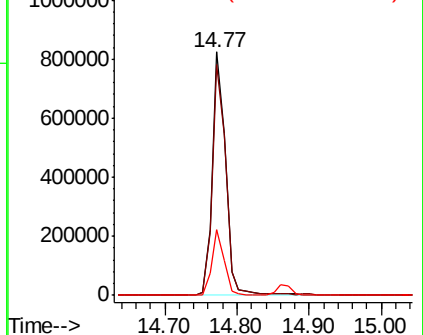
Tot Ion	Ratio	Lower	Upper
180	100		
182	94.8	48.8	146.4
145	26.8	11.8	35.3

Manual Integrations
 APPROVED

apatel
 12/27/2018 10:47:55 AM

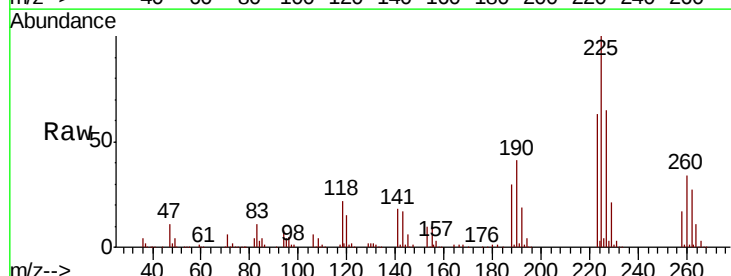


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

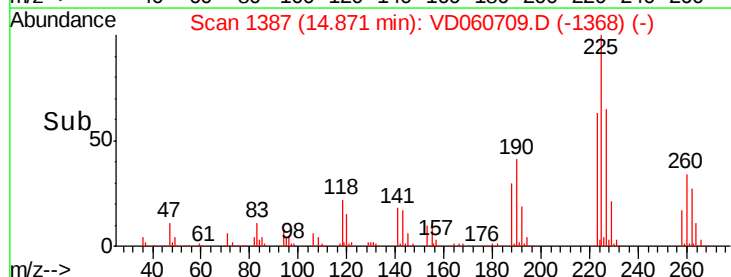
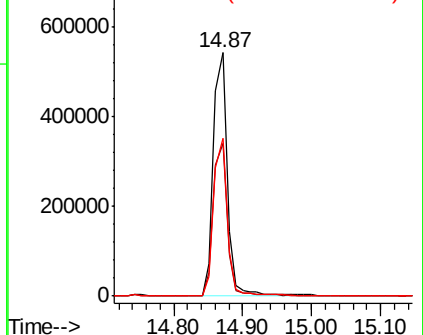


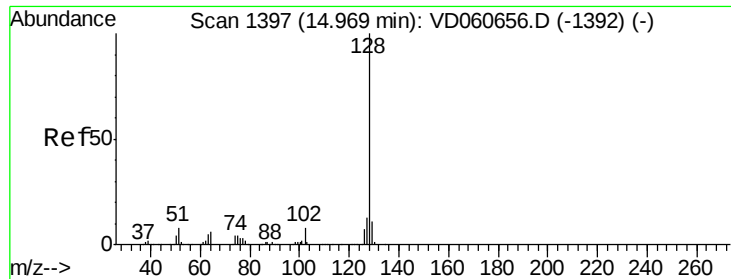
#94
 Hexachlorobutadiene
 Concen: 48.370 ug/l
 RT: 14.87 min Scan# 1387
 Delta R.T. -0.01 min
 Lab File: VD060709.D
 Acq: 26 Dec 2018 10:28

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.3	93.8
227	65.0	32.5	97.4



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





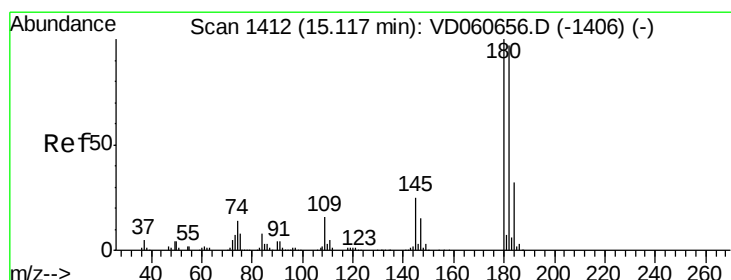
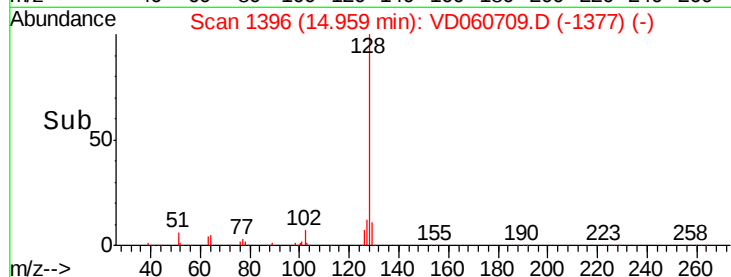
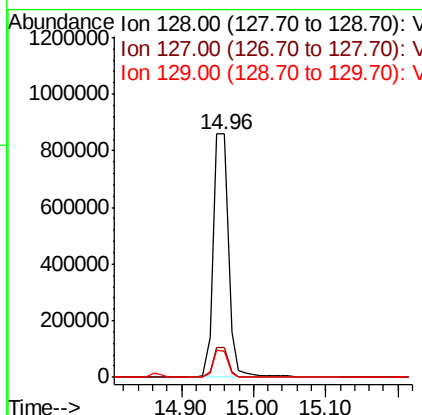
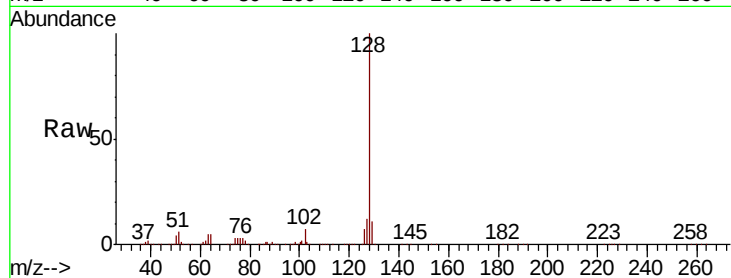
#95
Naphthalene
Concen: 48.873 ug/l
RT: 14.96 min Scan# 1396
Delta R.T. -0.01 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.1	15.1
129	10.7	8.6	13.0

Manual Integrations
APPROVED

apatel
12/27/2018 10:47:55 AM



#96
1,2,3-Trichlorobenzene
Concen: 49.447 ug/l
RT: 15.10 min Scan# 1410
Delta R.T. -0.02 min
Lab File: VD060709.D
Acq: 26 Dec 2018 10:28

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	48.6	145.9
145	29.1	12.6	37.8

