

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102918\
 Data File : VD060227.D
 Acq On : 29 Oct 2018 13:58
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

apatel
 10/30/2018 12:37:54 PM

Quant Time: Oct 29 15:21:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 06:56:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.43	168	1643682	50.00	ug/l	0.05
34) 1,4-Difluorobenzene	7.46	114	2293381	50.00	ug/l	0.05
63) Chlorobenzene-d5	11.29	117	1842098	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	13.38	152	977192	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.81	65	680117	54.59	ug/l	0.05
Spiked Amount	50.000		Recovery	=	109.18%	
35) Dibromofluoromethane	6.34	113	909197	52.21	ug/l	0.05
Spiked Amount	50.000		Recovery	=	104.42%	
50) Toluene-d8	9.47	98	2513765	50.62	ug/l	0.04
Spiked Amount	50.000		Recovery	=	101.24%	
62) 4-Bromofluorobenzene	12.43	95	934259	50.25	ug/l	0.02
Spiked Amount	50.000		Recovery	=	100.50%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.60	85	764974	49.476	ug/l	98
3) Chloromethane	1.78	50	731440	52.463	ug/l	98
4) Vinyl Chloride	1.87	62	616945	54.071	ug/l	98
5) Bromomethane	2.16	94	93908	65.548	ug/l	97
6) Chloroethane	2.27	64	172529	55.411	ug/l	95
7) Trichlorofluoromethane	2.52	101	762148	55.787	ug/l	99
8) Diethyl Ether	2.84	74	177158	63.062	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.11	101	527141	61.936	ug/l	99
10) Methyl Iodide	3.26	142	557995	61.822	ug/l	97
11) Tert butyl alcohol	3.99	59	259209	290.084	ug/l	99
12) 1,1-Dichloroethene	3.10	96	415653	61.991	ug/l	92
13) Acrolein	3.00	56	115744	210.124	ug/l	99
14) Allyl chloride	3.56	41	801620	57.564	ug/l	99
15) Acrylonitrile	4.11	53	1035537	279.982	ug/l	99
16) Acetone	3.17	43	729100	322.497	ug/l	100
17) Carbon Disulfide	3.33	76	1207027	53.532	ug/l	98
18) Methyl Acetate	3.58	43	379319	78.062	ug/l	100
19) Methyl tert-butyl Ether	4.15	73	1637118	55.533	ug/l	98
20) Methylene Chloride	3.75	84	941060	53.153	ug/l	99
21) trans-1,2-Dichloroethene	4.12	96	874057	50.474	ug/l	99
22) Diisopropyl ether	4.88	45	3327264	53.500	ug/l	94
23) Vinyl Acetate	4.83	43	9193296	262.982	ug/l	99
24) 1,1-Dichloroethane	4.78	63	1545080	54.794	ug/l	99
25) 2-Butanone	5.64	43	1576163	279.064	ug/l	98
26) 2,2-Dichloropropane	5.61	77	1208375	56.528	ug/l	100
27) cis-1,2-Dichloroethene	5.61	96	978170	53.314	ug/l	92
28) Bromochloromethane	5.95	49	749023	54.662	ug/l	93
29) Tetrahydrofuran	5.98	42	893071	272.223	ug/l	99
30) Chloroform	6.13	83	1621497	56.847	ug/l	100
31) Cyclohexane	6.39	56	1301035	48.199	ug/l	99
32) 1,1,1-Trichloroethane	6.31	97	1299978	55.629	ug/l	99
36) 1,1-Dichloropropene	6.55	75	1156391	52.767	ug/l	98
37) Ethyl Acetate	5.72	43	808773	55.599	ug/l	98
38) Carbon Tetrachloride	6.52	117	1061243	53.354	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102918\
 Data File : VD060227.D
 Acq On : 29 Oct 2018 13:58
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

apatel
 10/30/2018 12:37:54 PM

Quant Time: Oct 29 15:21:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 06:56:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.07	83	1298916	52.165	ug/l	99
40) Benzene	6.82	78	3030351	52.855	ug/l	99
41) Methacrylonitrile	5.96	41	495215m	60.230	ug/l	
42) 1,2-Dichloroethane	6.91	62	902021	54.876	ug/l	97
43) Isopropyl Acetate	8.37	43	1038634	54.272	ug/l	99
44) Trichloroethene	7.76	130	916810	51.657	ug/l	98
45) 1,2-Dichloropropane	8.12	63	826294	55.041	ug/l	97
46) Dibromomethane	8.23	93	521453	53.651	ug/l	93
47) Bromodichloromethane	8.51	83	1168427	56.421	ug/l	99
48) Methyl methacrylate	8.26	41	601997	55.224	ug/l	99
49) 1,4-Dioxane	8.25	88	110543	1030.633	ug/l	96
51) 4-Methyl-2-Pentanone	9.36	43	3361946	278.523	ug/l	99
52) Toluene	9.57	92	1944966	52.673	ug/l	100
53) t-1,3-Dichloropropene	9.93	75	1075468	57.394	ug/l	98
54) cis-1,3-Dichloropropene	9.12	75	1280142	55.323	ug/l	97
55) 1,1,2-Trichloroethane	10.20	97	643283	53.290	ug/l	97
56) Ethyl methacrylate	10.05	69	762283	57.207	ug/l	98
57) 1,3-Dichloropropane	10.40	76	1034137	56.172	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.94	63	1971255	266.405	ug/l	98
59) 2-Hexanone	10.51	43	2426070	279.509	ug/l	99
60) Dibromochloromethane	10.65	129	843976	56.984	ug/l	98
61) 1,2-Dibromoethane	10.77	107	702380	54.762	ug/l	96
64) Tetrachloroethene	10.27	164	820526	50.857	ug/l	99
65) Chlorobenzene	11.33	112	2087518	52.383	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.43	131	745029	56.041	ug/l	98
67) Ethyl Benzene	11.44	91	3465985	53.681	ug/l	100
68) m/p-Xylenes	11.58	106	2600368	107.790	ug/l	100
69) o-Xylene	11.95	106	1261797	52.879	ug/l	99
70) Styrene	11.97	104	2105463	52.762	ug/l	99
71) Bromoform	12.13	173	621547	57.737	ug/l	100
73) Isopropylbenzene	12.29	105	3468427	53.801	ug/l	99
74) N-amyl acetate	12.15	43	1299634	55.037	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.57	83	778138	55.288	ug/l	97
76) 1,2,3-Trichloropropane	12.61	75	781969	55.566	ug/l	97
77) Bromobenzene	12.55	156	993450	53.030	ug/l	93
78) n-propylbenzene	12.65	91	4176150	52.170	ug/l	96
79) 2-Chlorotoluene	12.72	91	2374931	53.456	ug/l	96
80) 1,3,5-Trimethylbenzene	12.81	105	2602212	52.154	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.36	75	223146	56.432	ug/l	92
82) 4-Chlorotoluene	12.82	91	2646045	52.657	ug/l	94
83) tert-Butylbenzene	13.05	119	3076932	53.740	ug/l	98
84) 1,2,4-Trimethylbenzene	13.10	105	2703763	51.416	ug/l	98
85) sec-Butylbenzene	13.23	105	3564163	52.648	ug/l	99
86) p-Isopropyltoluene	13.35	119	2954139	53.202	ug/l	98
87) 1,3-Dichlorobenzene	13.32	146	1716173	52.580	ug/l	98
88) 1,4-Dichlorobenzene	13.40	146	1671463	50.984	ug/l	98
89) n-Butylbenzene	13.65	91	2912669	53.759	ug/l	99
90) Hexachloroethane	13.87	117	742540	57.782	ug/l	69
91) 1,2-Dichlorobenzene	13.67	146	1476120	53.787	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	14.24	75	110358	58.726	ug/l	84

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102918\
Data File : VD060227.D
Acq On : 29 Oct 2018 13:58
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

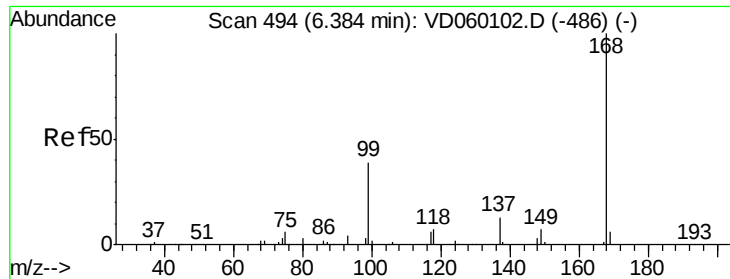
Manual Integrations
APPROVED

apatel
10/30/2018 12:37:54 PM

Quant Time: Oct 29 15:21:44 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 02 06:56:35 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.80	180	1214913	52.155	ug/l	97
94) Hexachlorobutadiene	14.88	225	812250	52.458	ug/l	99
95) Naphthalene	14.97	128	1833570	53.103	ug/l	100
96) 1,2,3-Trichlorobenzene	15.12	180	1021741	50.422	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.43 min Scan# 499

Delta R.T. 0.05 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 1643682

Ion Ratio Lower Upper

168 100

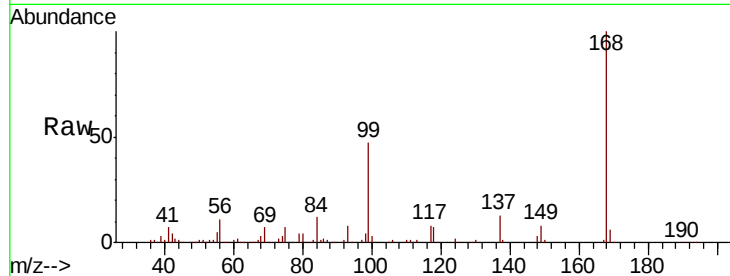
99 46.9 35.4 53.0

Manual Integrations

APPROVED

apatel

10/30/2018 12:37:54 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.43

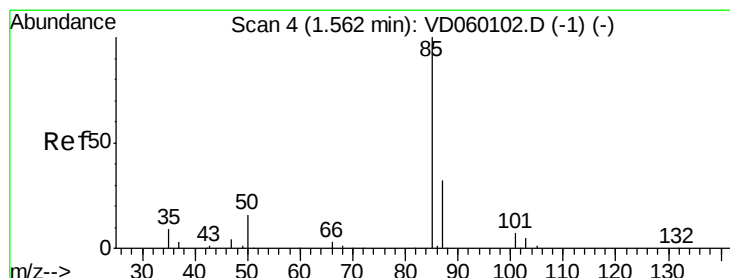
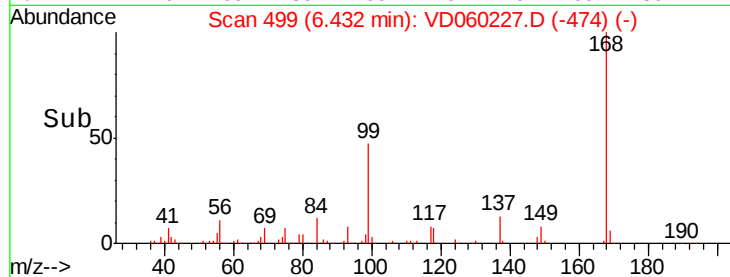
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 49.476 ug/l

RT: 1.60 min Scan# 8

Delta R.T. 0.04 min

Lab File: VD060227.D

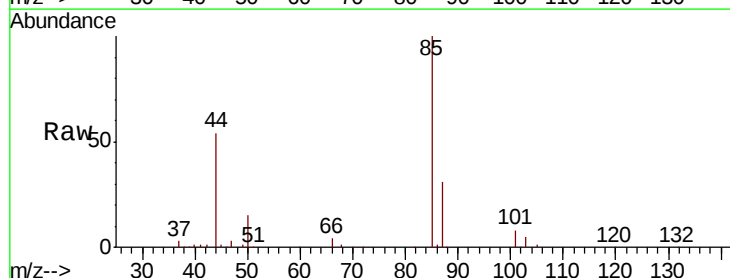
Acq: 29 Oct 2018 13:58

Tgt Ion: 85 Resp: 764974

Ion Ratio Lower Upper

85 100

87 30.8 15.9 47.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.60

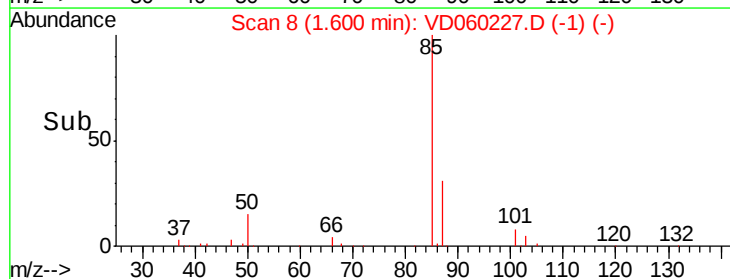
300000

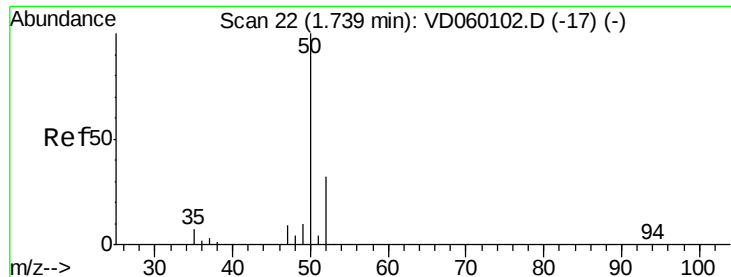
200000

100000

0

Time-->





#3

Chloromethane

Concen: 52.463 ug/l

RT: 1.78 min Scan# 26

Delta R.T. 0.04 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 731440

Ion Ratio Lower Upper

50 100

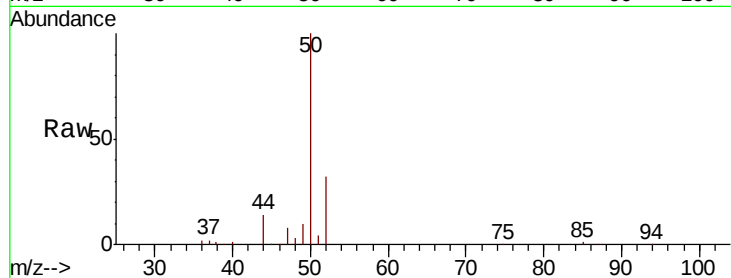
52 32.5 25.3 37.9

Manual Integrations

APPROVED

apatel

10/30/2018 12:37:54 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.78

250000

200000

150000

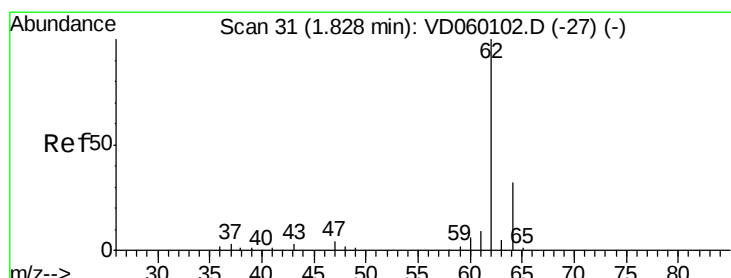
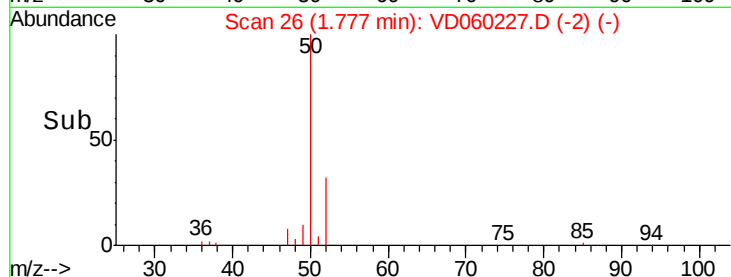
100000

50000

0

1.70 1.80 1.90

Time-->



#4

Vinyl Chloride

Concen: 54.071 ug/l

RT: 1.87 min Scan# 35

Delta R.T. 0.04 min

Lab File: VD060227.D

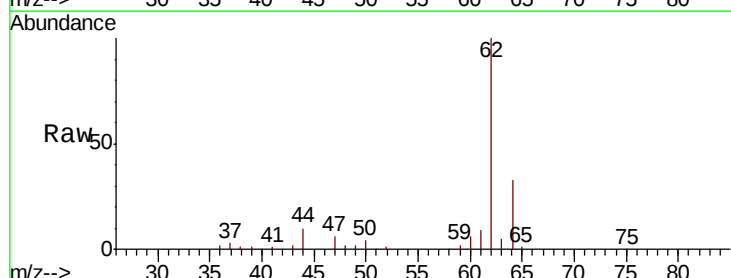
Acq: 29 Oct 2018 13:58

Tgt Ion: 62 Resp: 616945

Ion Ratio Lower Upper

62 100

64 32.8 25.2 37.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.87

300000

250000

200000

150000

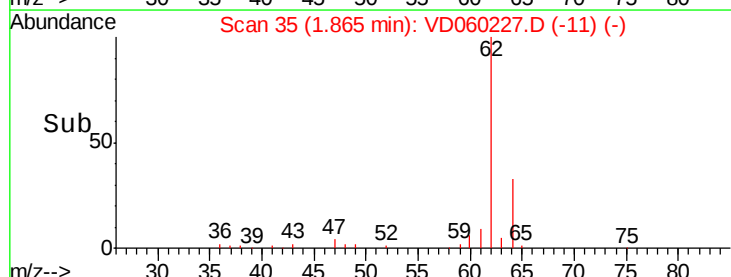
100000

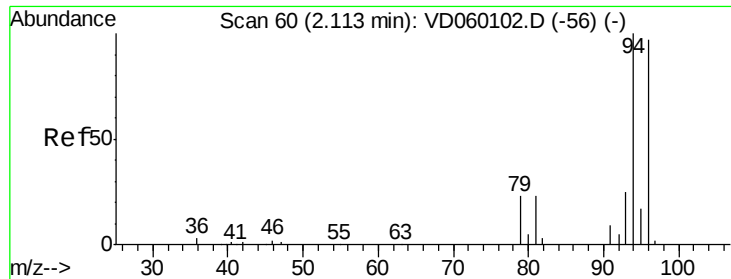
50000

0

1.80 1.90 2.00

Time-->





#5

Bromomethane

Concen: 65.548 ug/l

RT: 2.16 min Scan# 65

Delta R.T. 0.05 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 93908

Ion Ratio Lower Upper

94 100

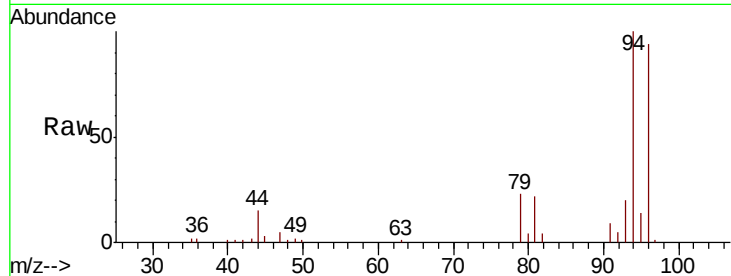
96 94.0 77.4 116.2

Manual Integrations

APPROVED

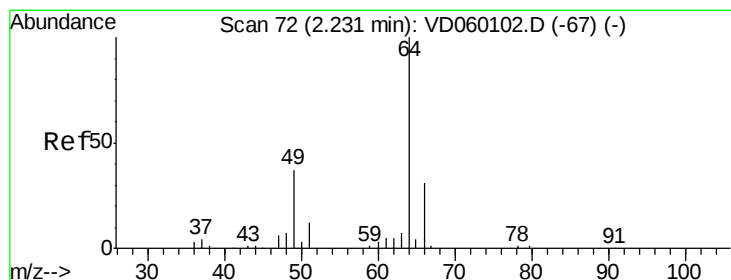
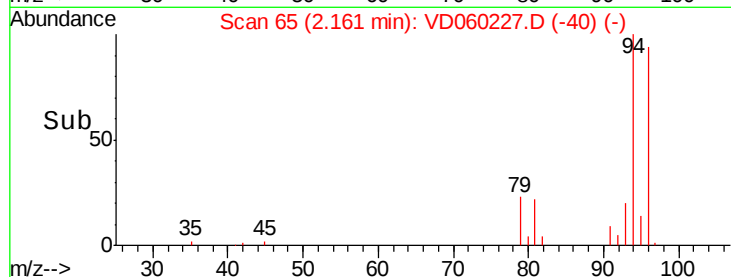
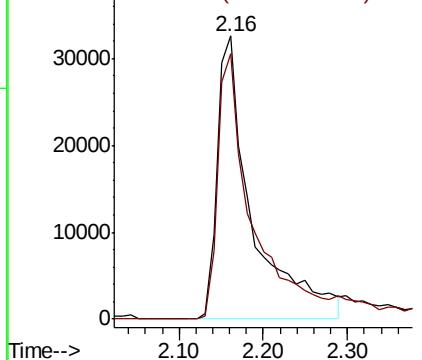
apatel

10/30/2018 12:37:54 PM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 55.411 ug/l

RT: 2.27 min Scan# 76

Delta R.T. 0.04 min

Lab File: VD060227.D

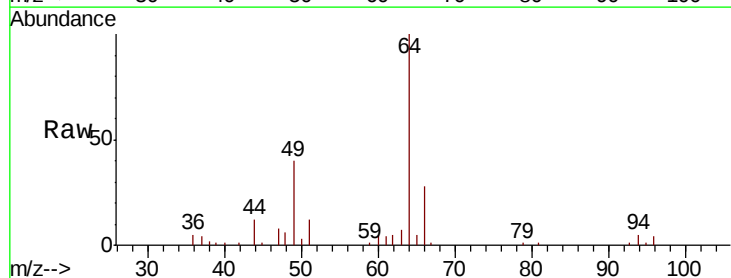
Acq: 29 Oct 2018 13:58

Tgt Ion: 64 Resp: 172529

Ion Ratio Lower Upper

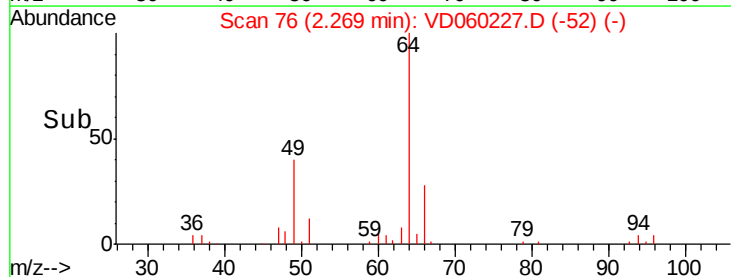
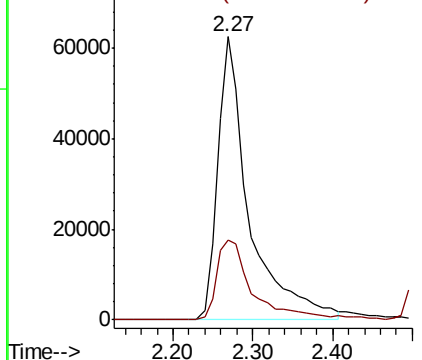
64 100

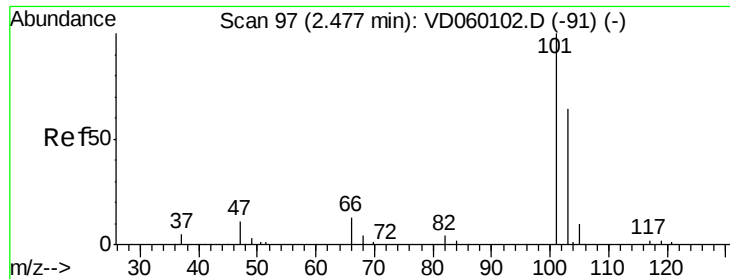
66 28.0 24.6 37.0



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

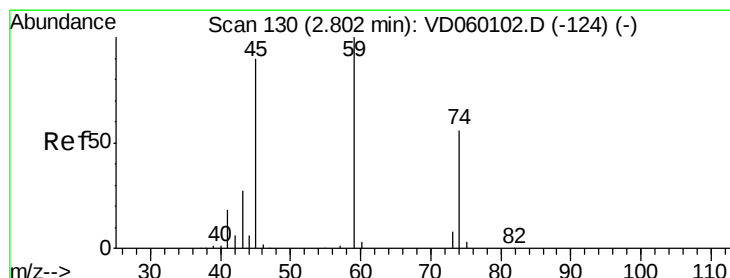
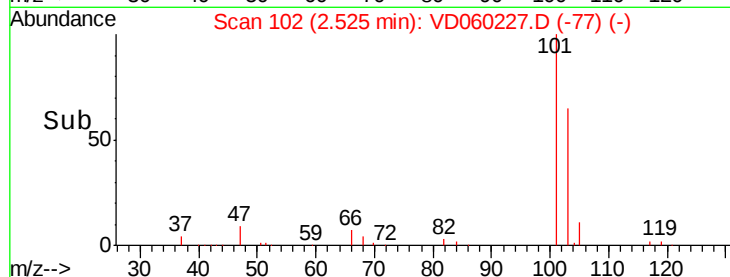
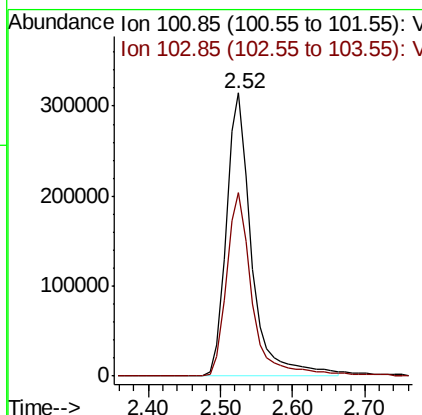
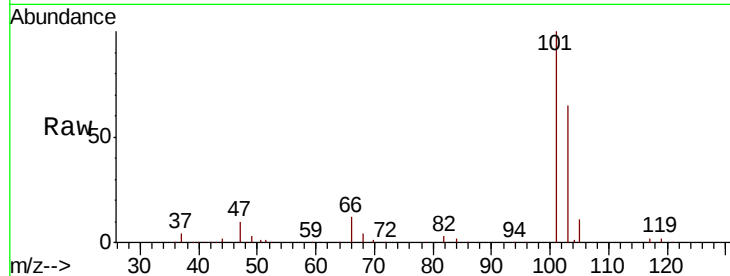
Trichlorofluoromethane
 Concen: 55.787 ug/l
 RT: 2.52 min Scan# 102
 Delta R.T. 0.05 min
 Lab File: VD060227.D
 Acq: 29 Oct 2018 13:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.0	51.5	77.3

Manual Integrations
 APPROVED

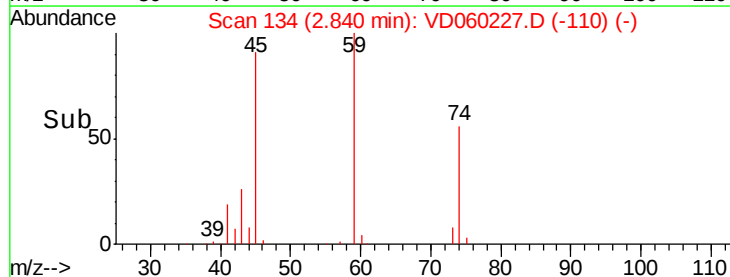
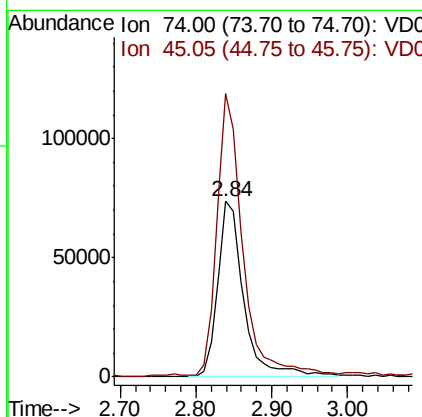
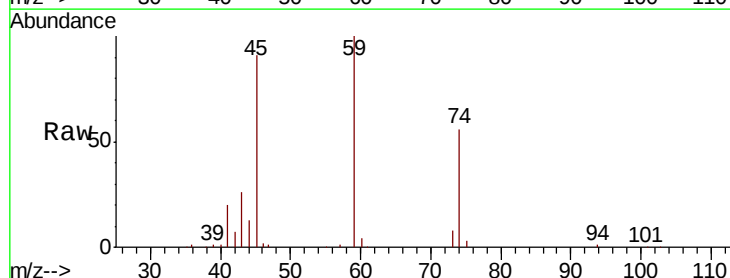
apatel
 10/30/2018 12:37:54 PM

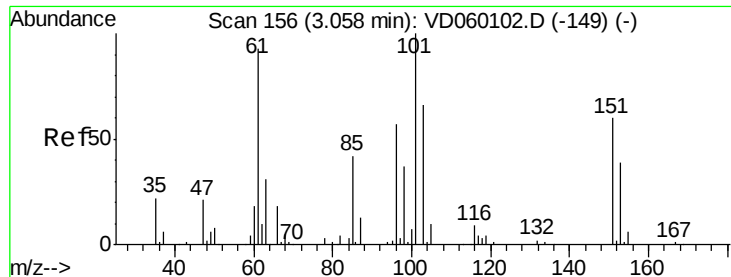


#8

Diethyl Ether
 Concen: 63.062 ug/l
 RT: 2.84 min Scan# 134
 Delta R.T. 0.04 min
 Lab File: VD060227.D
 Acq: 29 Oct 2018 13:58

Tgt Ion	Ratio	Lower	Upper
74	100		
45	161.4	80.3	241.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 61.936 ug/l

RT: 3.11 min Scan# 161

Delta R.T. 0.05 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

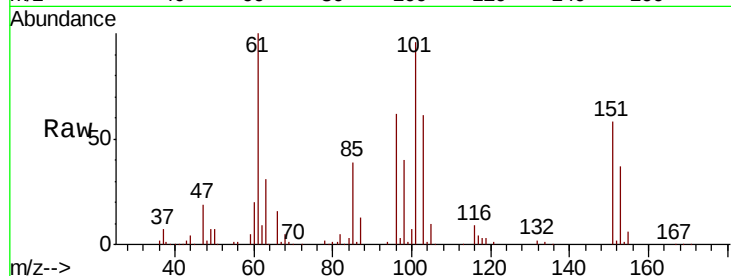
ClientSampleId :

VSTDCCC050

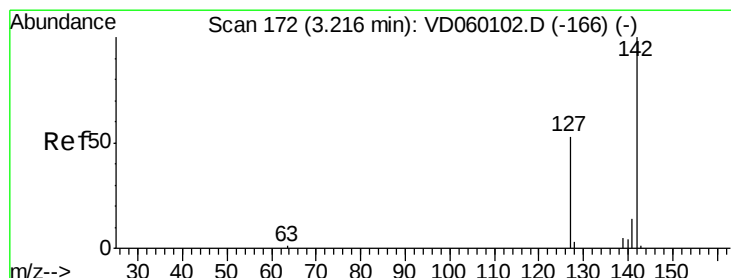
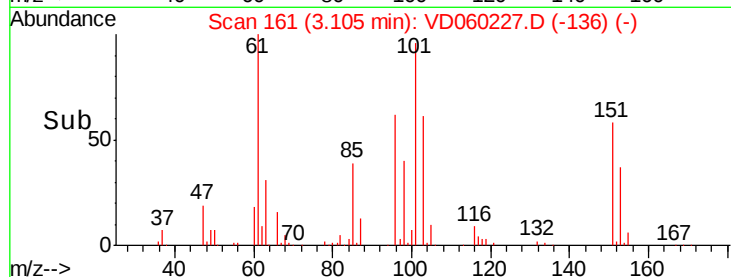
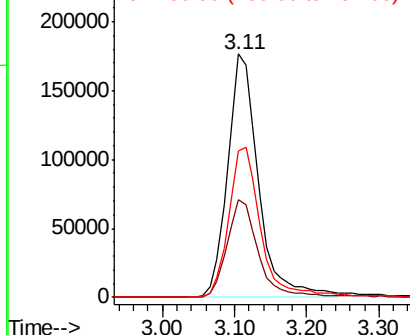
Tot Ion:	101	Resp:	527141
Ion Ratio	Lower	Upper	
101	100		
85	40.3	33.4	50.0
151	60.2	48.0	72.0

Manual Integrations
APPROVED

apatel
10/30/2018 12:37:54 PM



Abundance Ion 100.85 (100.55 to 101.55): V
Ion 84.95 (84.65 to 85.65): V
Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 61.822 ug/l

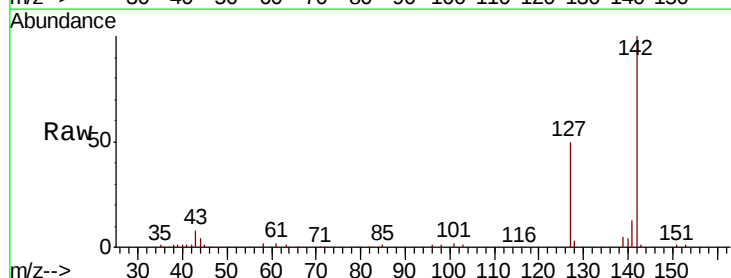
RT: 3.26 min Scan# 177

Delta R.T. 0.05 min

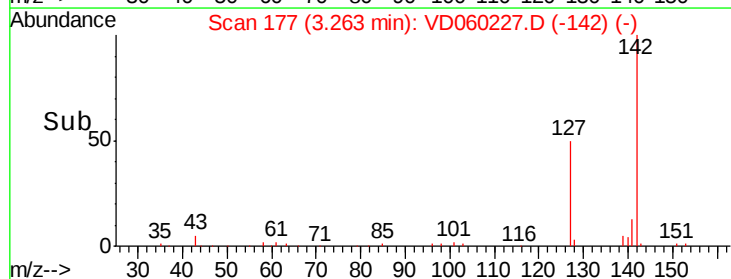
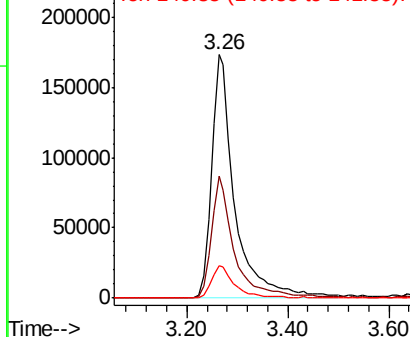
Lab File: VD060227.D

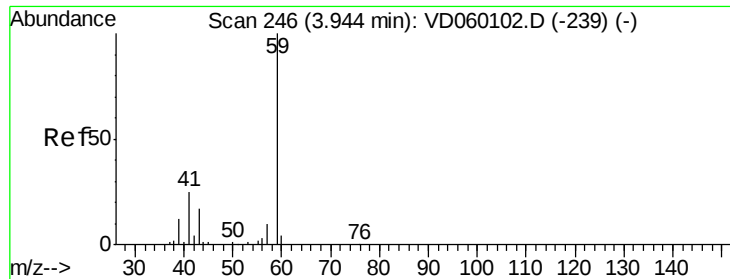
Acq: 29 Oct 2018 13:58

Tgt Ion:	142	Resp:	557995
Ion Ratio	Lower	Upper	
142	100		
127	50.3	42.0	63.0
141	13.4	11.4	17.0



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





#11

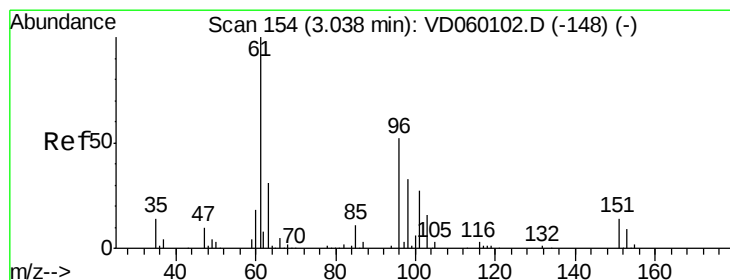
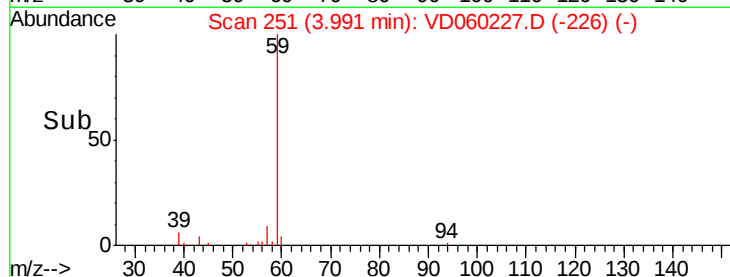
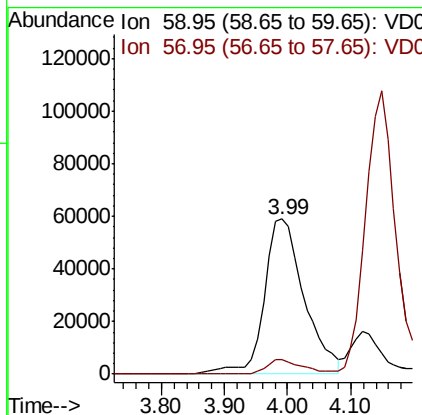
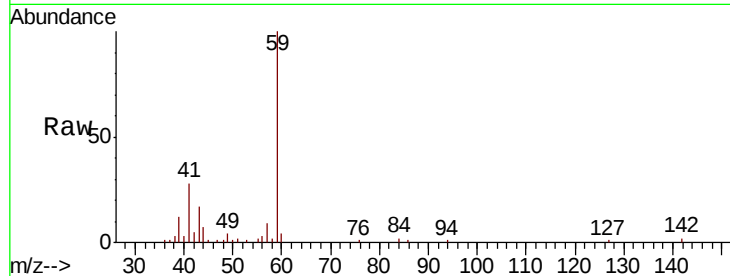
Tert butyl alcohol
Concen: 290.084 ug/l
RT: 3.99 min Scan# 251
Delta R.T. 0.05 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.3	7.8	11.6

Manual Integrations
APPROVED

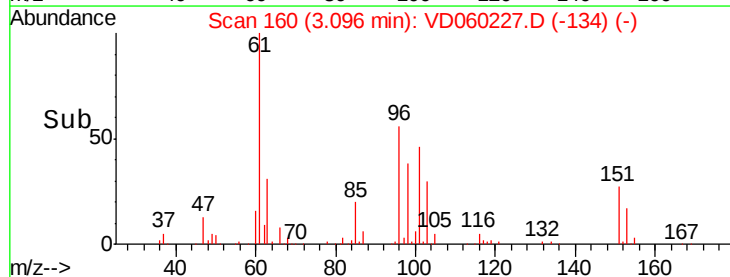
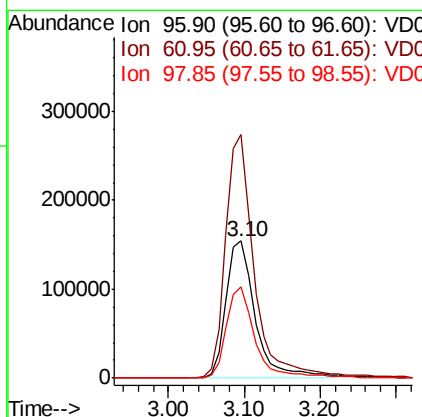
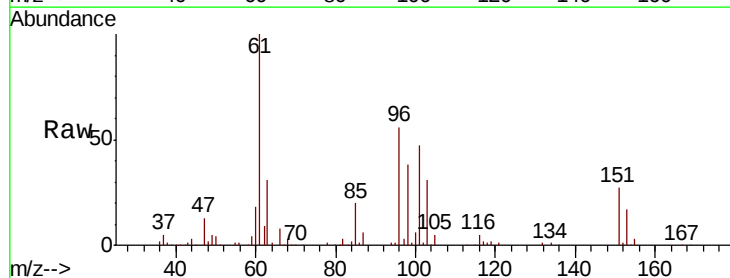
apatel
10/30/2018 12:37:54 PM

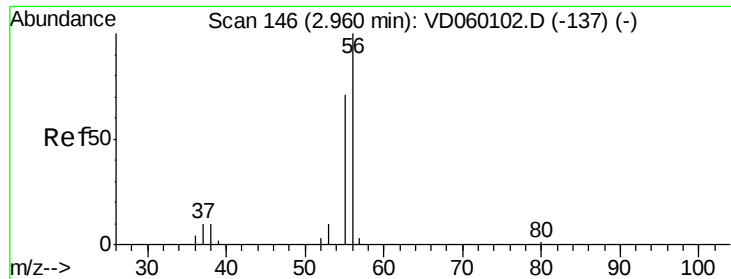


#12

1,1-Dichloroethene
Concen: 61.991 ug/l
RT: 3.10 min Scan# 160
Delta R.T. 0.06 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	177.7	153.0	229.4
98	66.7	51.1	76.7





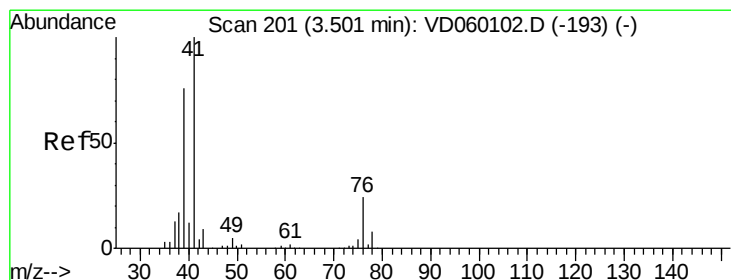
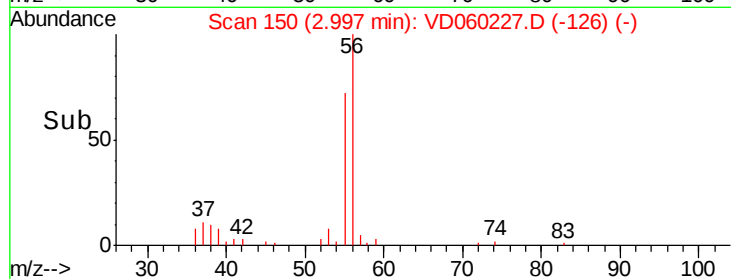
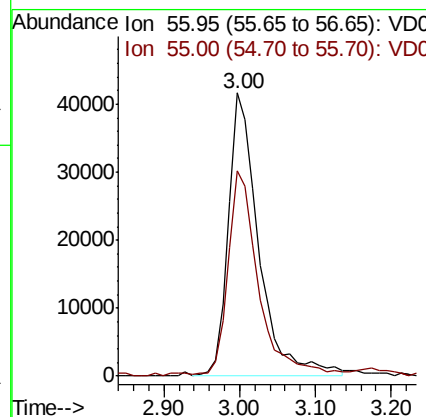
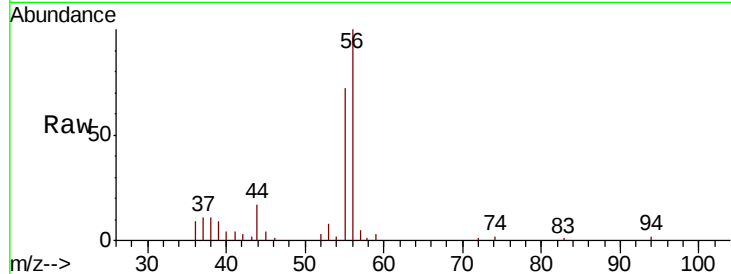
#13
Acrolein
Concen: 210.124 ug/l
RT: 3.00 min Scan# 150
Delta R.T. 0.04 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	56	55	Ratio	Lower	Upper
115744	100	72.4		57.4	86.2

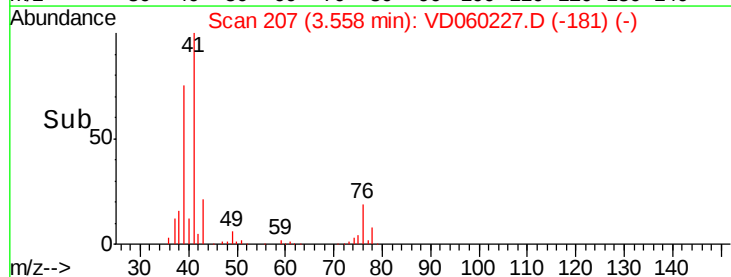
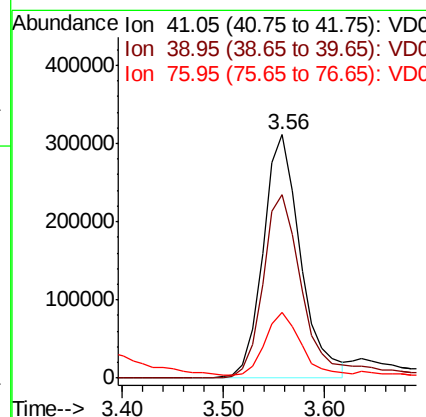
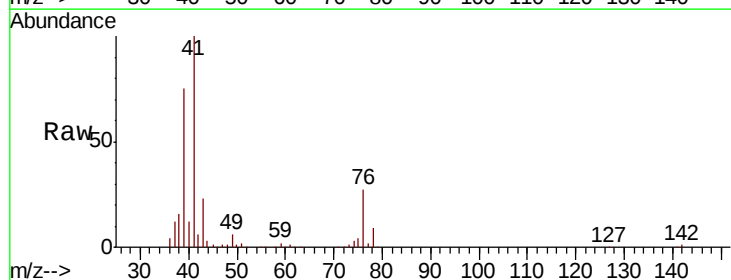
Manual Integrations
APPROVED

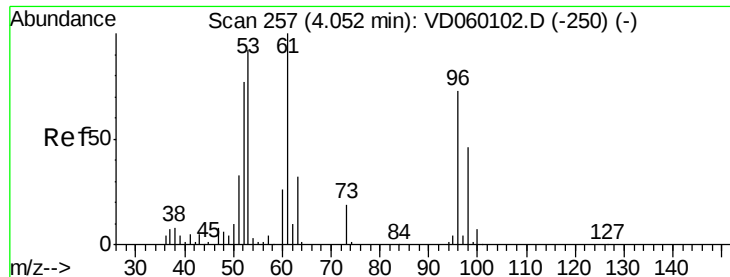
apatel
10/30/2018 12:37:54 PM



#14
Allyl chloride
Concen: 57.564 ug/l
RT: 3.56 min Scan# 207
Delta R.T. 0.06 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion	41	39	76	Ratio	Lower	Upper
801620	100	75.3	27.1		60.6	90.8





#15

Acrylonitrile

Concen: 279.982 ug/l

RT: 4.11 min Scan# 263

Delta R.T. 0.06 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 53 Resp: 1035537

Ion Ratio Lower Upper

53 100

52 83.5 67.5 101.3

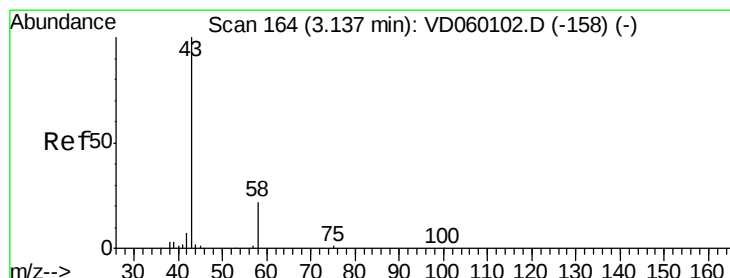
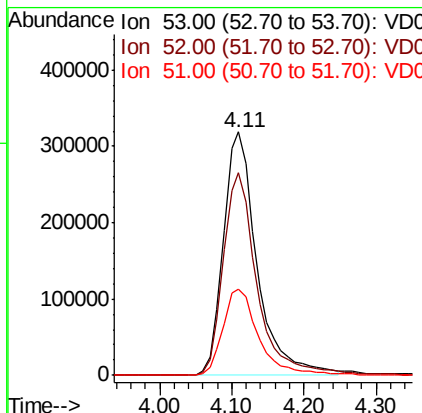
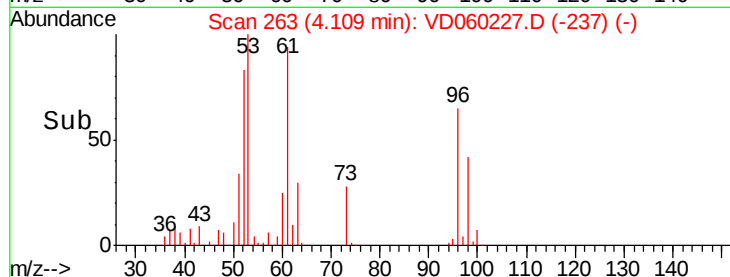
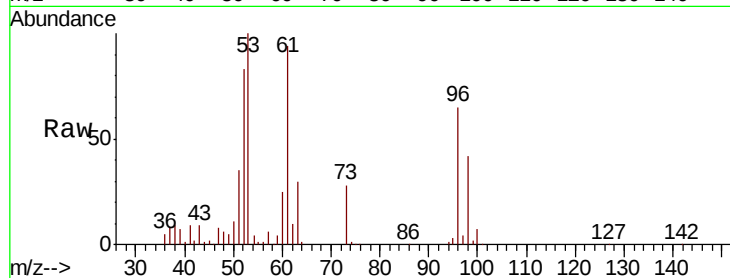
51 35.5 29.3 43.9

Manual Integrations

APPROVED

apatel

10/30/2018 12:37:54 PM



#16

Acetone

Concen: 322.497 ug/l

RT: 3.17 min Scan# 168

Delta R.T. 0.04 min

Lab File: VD060227.D

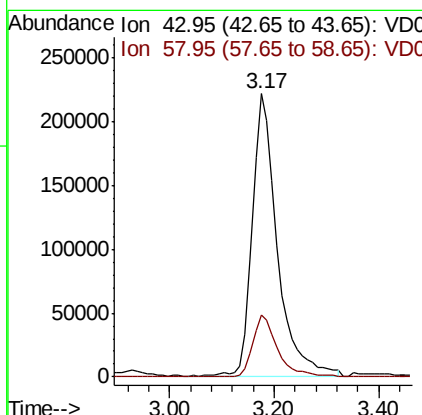
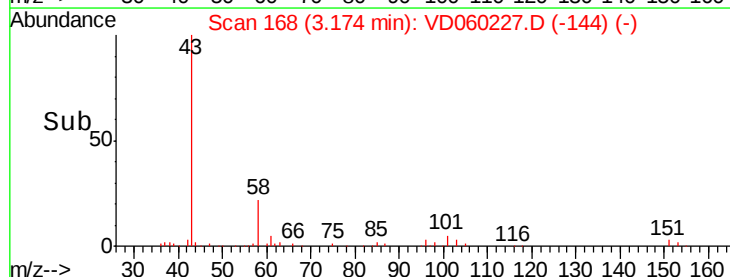
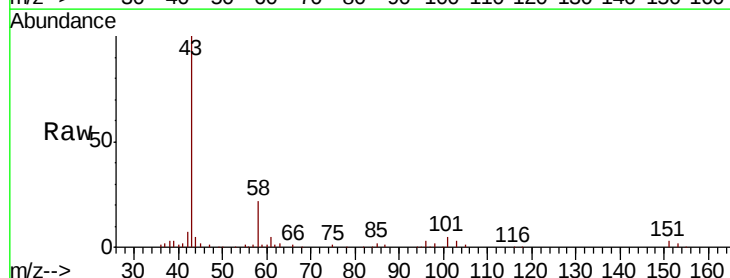
Acq: 29 Oct 2018 13:58

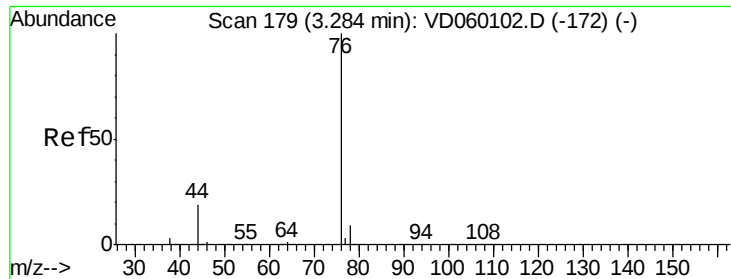
Tgt Ion: 43 Resp: 729100

Ion Ratio Lower Upper

43 100

58 22.0 17.7 26.5





#17

Carbon Disulfide

Concen: 53.532 ug/l

RT: 3.33 min Scan# 184

Delta R.T. 0.05 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Tot Ion: 76 Resp: 1207027

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.2

Instrument :

MSVOA_D

ClientSampleId :

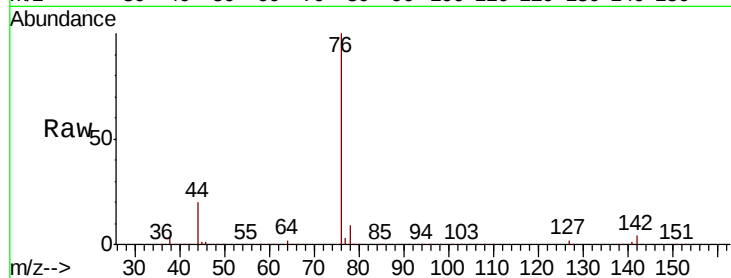
VSTDCCC050

Manual Integrations

APPROVED

apatel

10/30/2018 12:37:54 PM



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.33

500000

400000

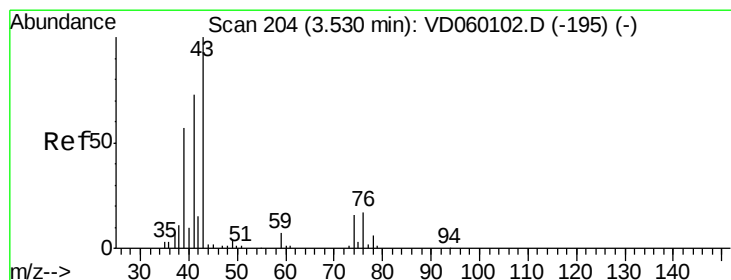
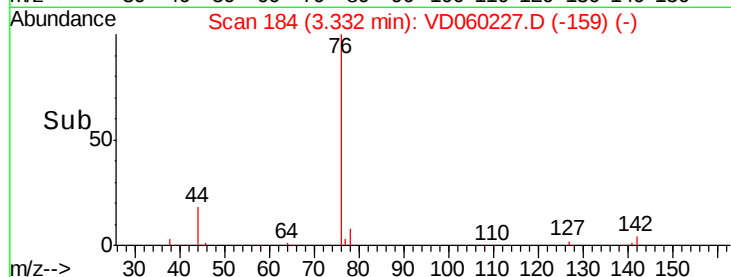
300000

200000

100000

0

Time-->



#18

Methyl Acetate

Concen: 78.062 ug/l

RT: 3.58 min Scan# 209

Delta R.T. 0.05 min

Lab File: VD060227.D

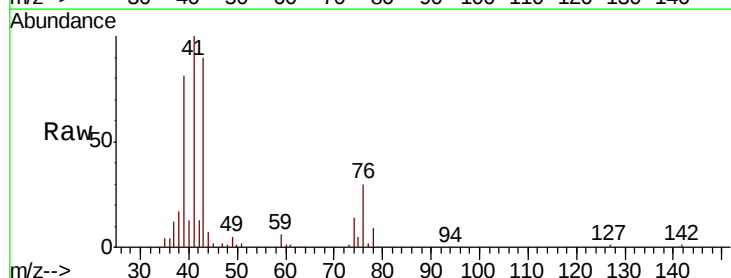
Acq: 29 Oct 2018 13:58

Tgt Ion: 43 Resp: 379319

Ion Ratio Lower Upper

43 100

74 15.7 12.6 19.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

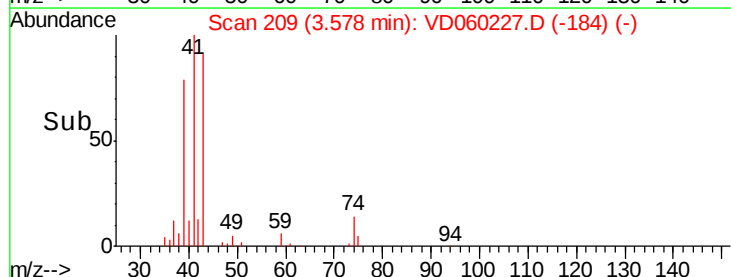
3.58

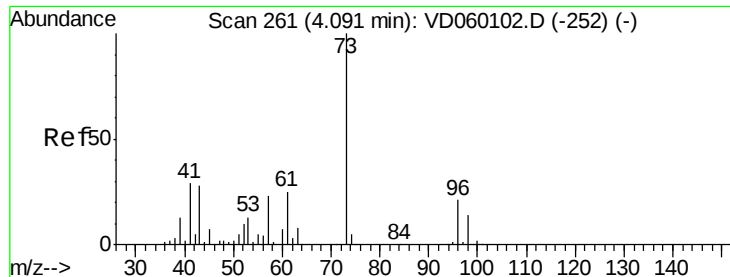
100000

50000

0

Time-->





#19

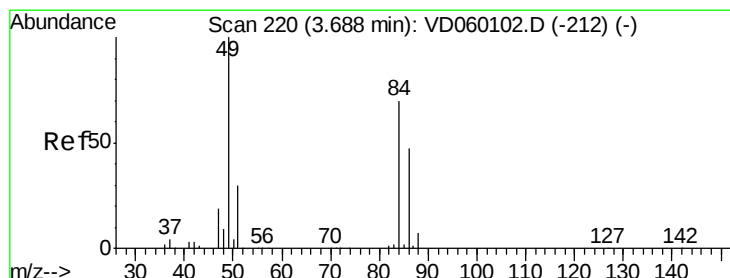
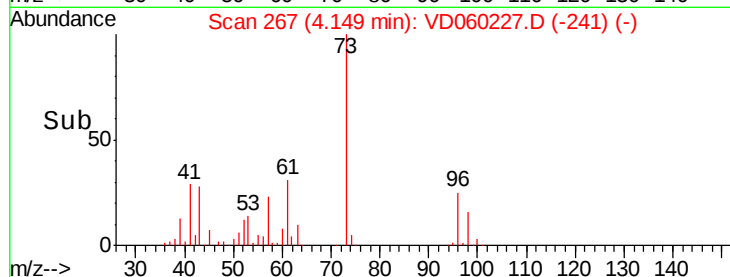
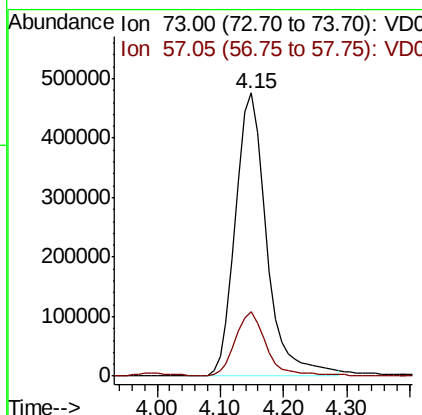
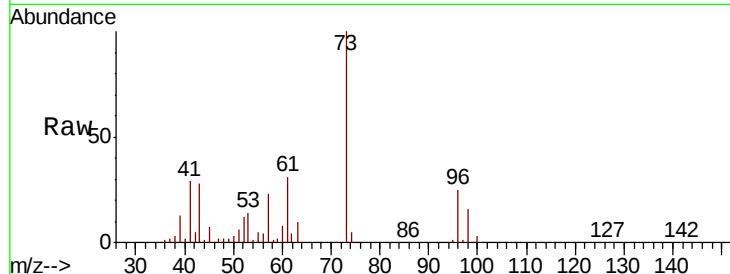
Methyl tert-butyl Ether
 Concen: 55.533 ug/l
 RT: 4.15 min Scan# 267
 Delta R.T. 0.06 min
 Lab File: VD060227.D
 Acq: 29 Oct 2018 13:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 73 Resp: 1637118
 Ion Ratio Lower Upper
 73 100
 57 22.6 18.7 28.1

Manual Integrations
 APPROVED

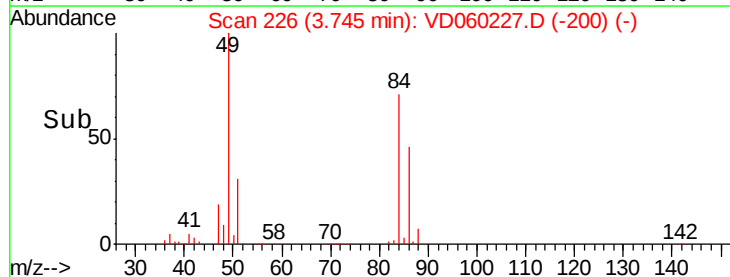
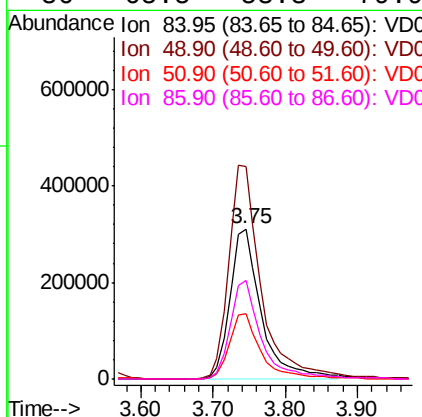
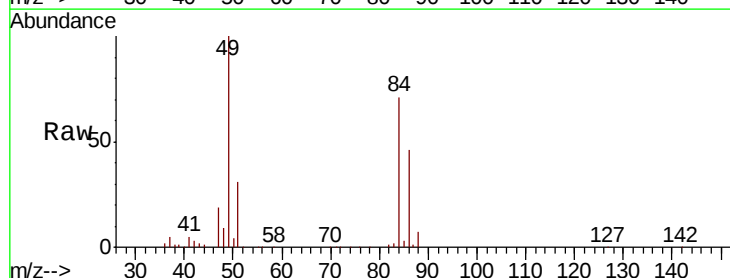
apatel
 10/30/2018 12:37:54 PM

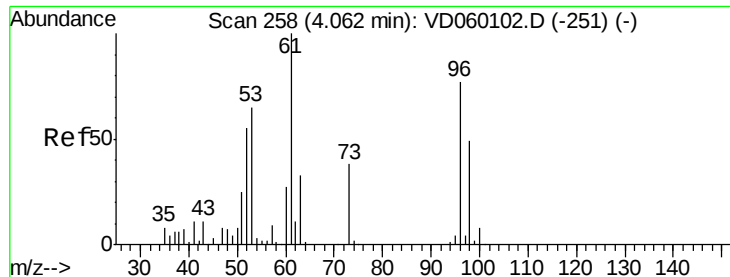


#20

Methylene Chloride
 Concen: 53.153 ug/l
 RT: 3.75 min Scan# 226
 Delta R.T. 0.06 min
 Lab File: VD060227.D
 Acq: 29 Oct 2018 13:58

Tgt Ion: 84 Resp: 941060
 Ion Ratio Lower Upper
 84 100
 49 141.5 114.6 172.0
 51 43.3 33.8 50.8
 86 65.5 53.3 79.9





#21

trans-1,2-Dichloroethene

Concen: 50.474 ug/l

RT: 4.12 min Scan# 264

Delta R.T. 0.06 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 874057

Ion Ratio Lower Upper

96 100

61 129.8 103.3 154.9

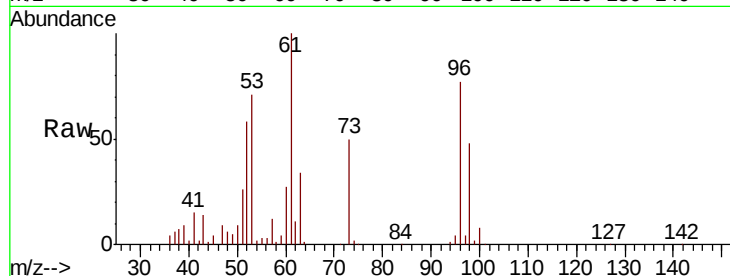
98 62.7 50.4 75.6

Manual Integrations

APPROVED

apatel

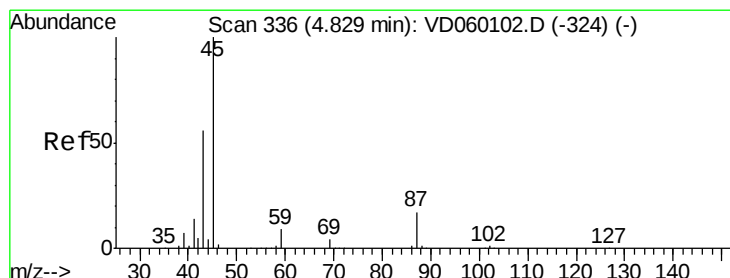
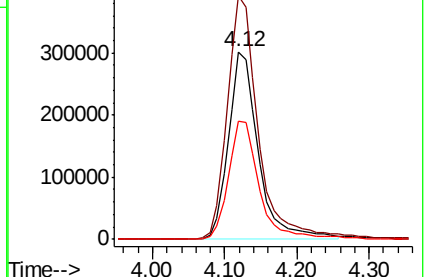
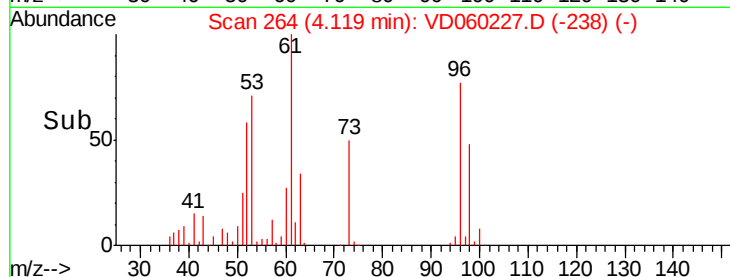
10/30/2018 12:37:54 PM



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 53.500 ug/l

RT: 4.88 min Scan# 341

Delta R.T. 0.05 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Tgt Ion: 45 Resp: 3327264

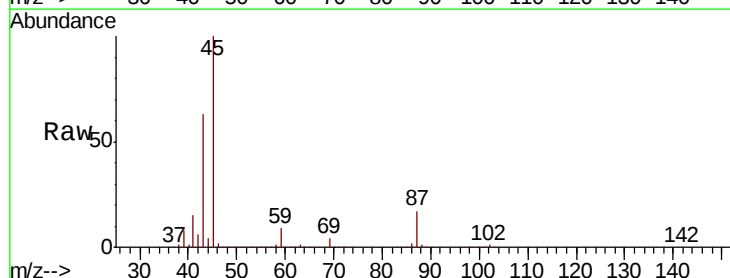
Ion Ratio Lower Upper

45 100

43 62.6 44.8 67.2

87 17.1 13.9 20.9

59 8.9 7.1 10.7

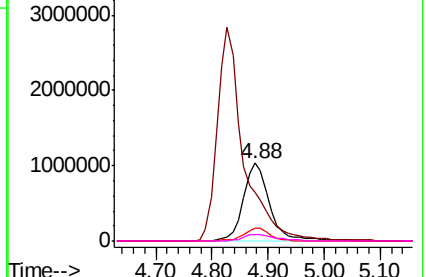
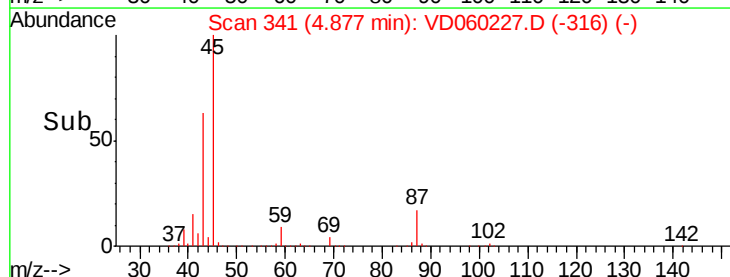


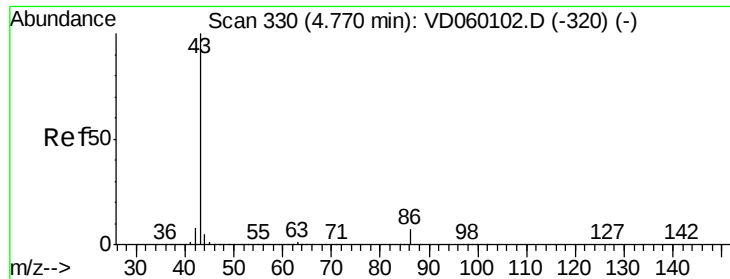
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 262.982 ug/l

RT: 4.83 min Scan# 336

Delta R.T. 0.06 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 9193296

Ion Ratio Lower Upper

43 100

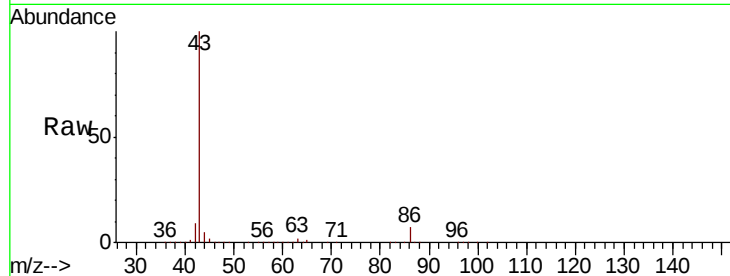
86 6.7 5.6 8.4

Manual Integrations

APPROVED

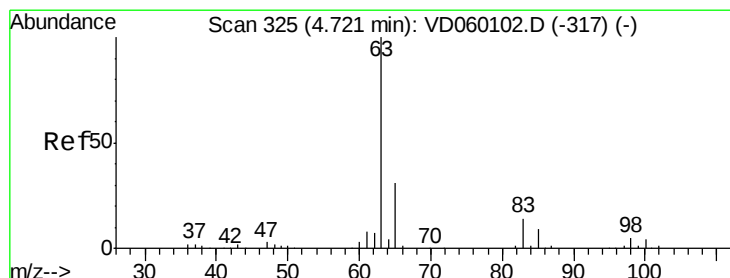
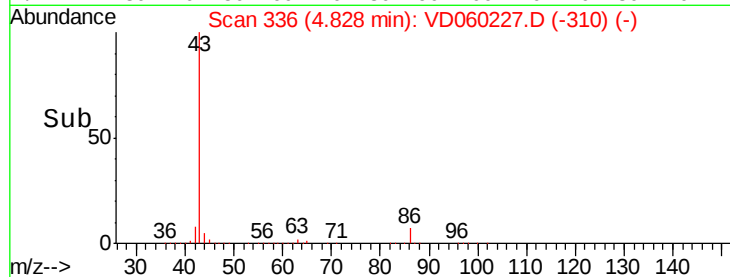
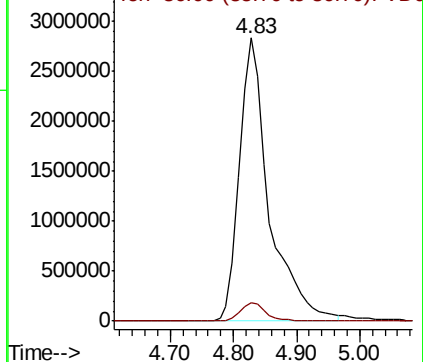
apatel

10/30/2018 12:37:54 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 54.794 ug/l

RT: 4.78 min Scan# 331

Delta R.T. 0.06 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

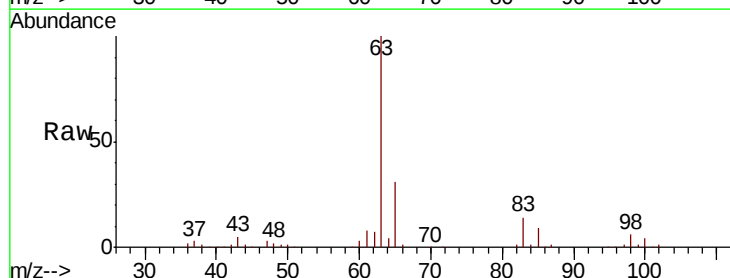
Tgt Ion: 63 Resp: 1545080

Ion Ratio Lower Upper

63 100

98 5.9 2.8 8.3

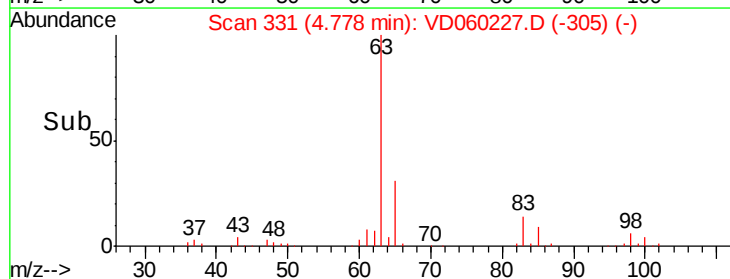
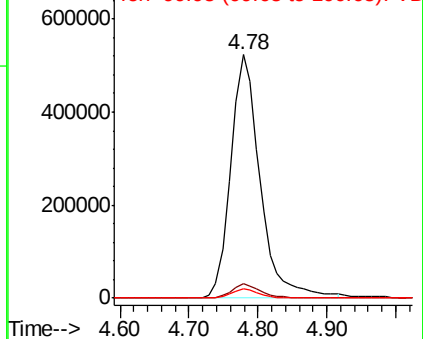
100 3.7 1.8 5.3

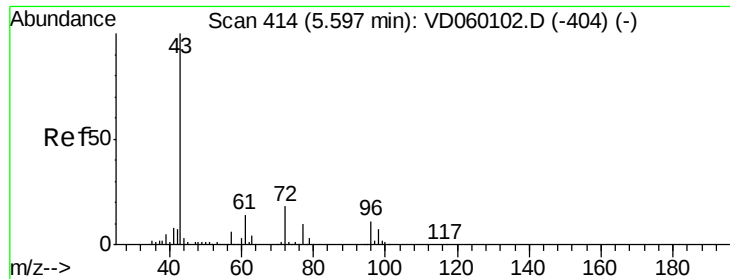


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 279.064 ug/l

RT: 5.64 min Scan# 419

Delta R.T. 0.05 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1576163

Ion Ratio Lower Upper

43 100

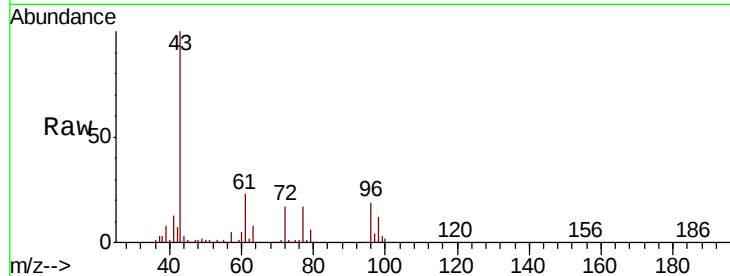
72 17.2 14.5 21.7

Manual Integrations

APPROVED

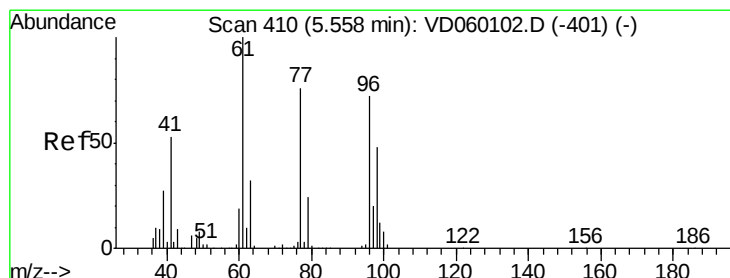
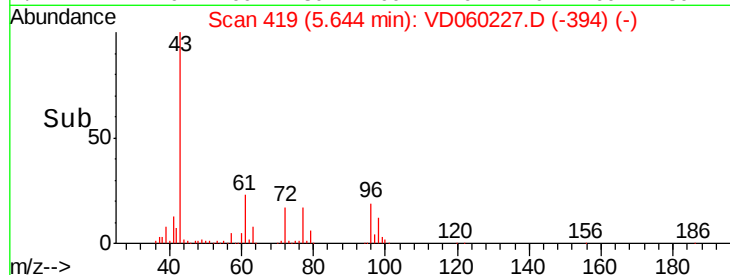
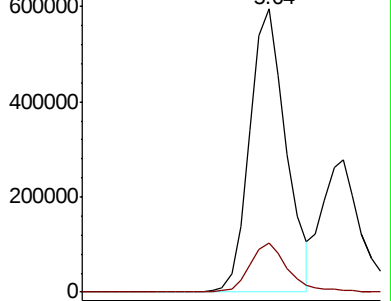
apatel

10/30/2018 12:37:54 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 56.528 ug/l

RT: 5.61 min Scan# 416

Delta R.T. 0.06 min

Lab File: VD060227.D

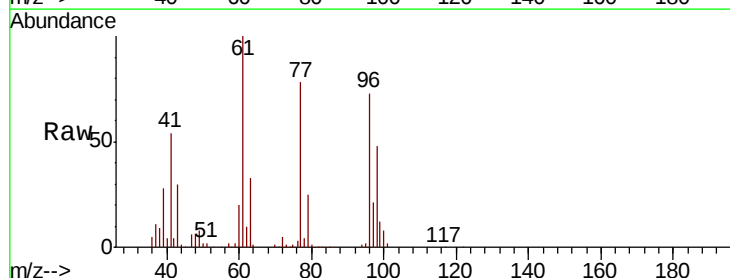
Acq: 29 Oct 2018 13:58

Tgt Ion: 77 Resp: 1208375

Ion Ratio Lower Upper

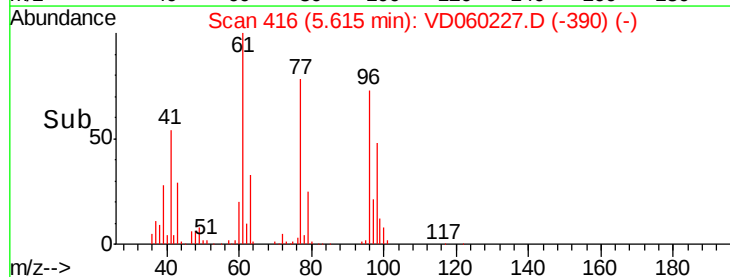
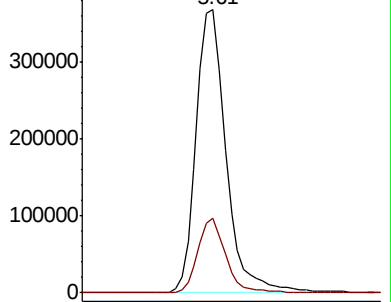
77 100

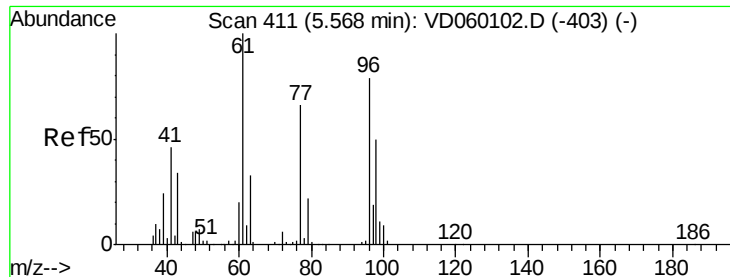
97 26.5 13.3 39.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

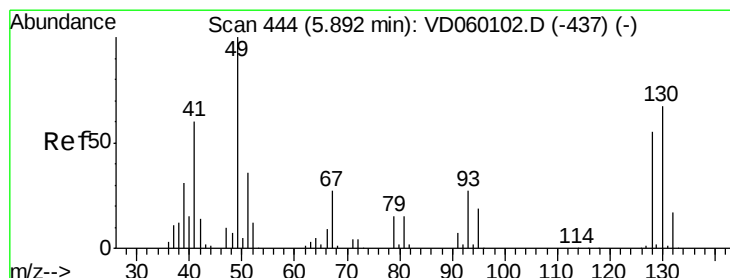
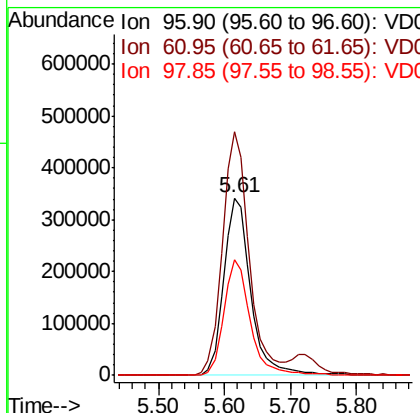
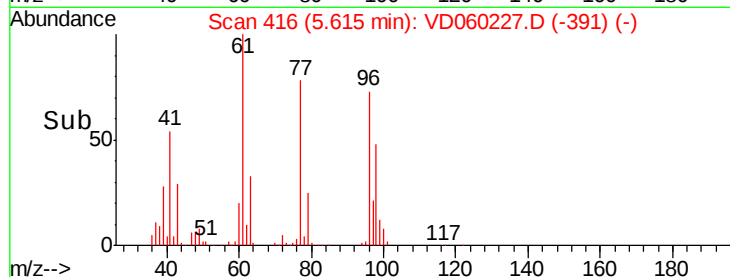
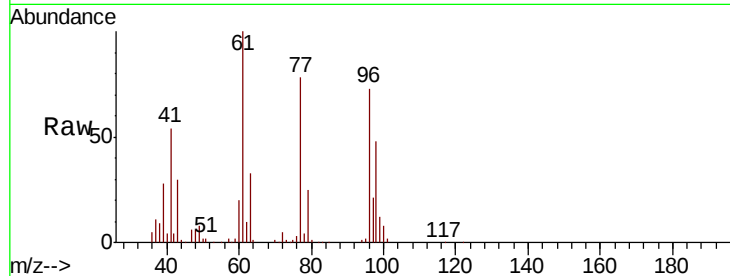
cis-1,2-Dichloroethene
Concen: 53.314 ug/l
RT: 5.61 min Scan# 416
Delta R.T. 0.05 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	137.2	0.0	251.8	
98	65.5	0.0	125.2	

Manual Integrations
APPROVED

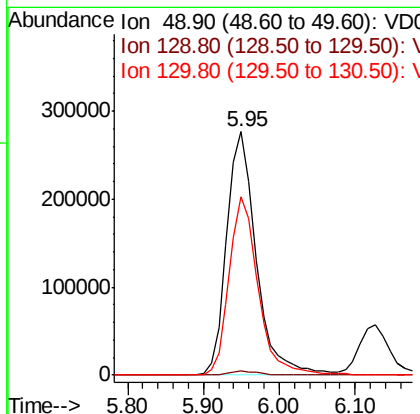
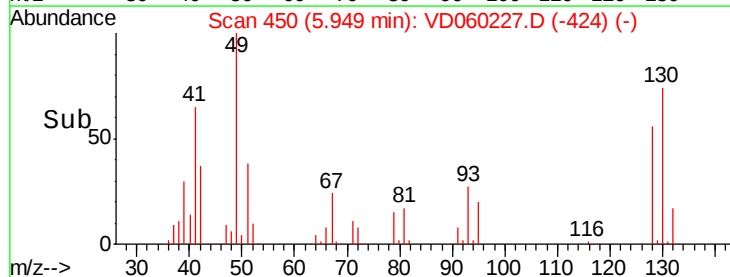
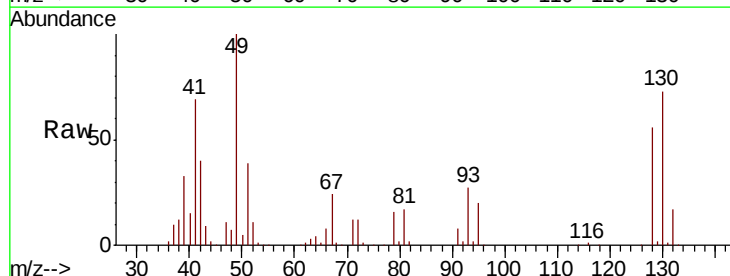
apatel
10/30/2018 12:37:54 PM

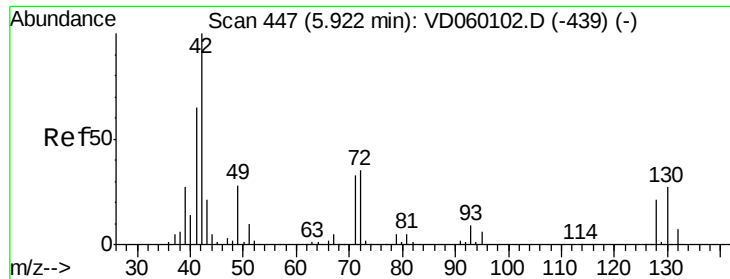


#28

Bromochloromethane
Concen: 54.662 ug/l
RT: 5.95 min Scan# 450
Delta R.T. 0.06 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.9	0.0	3.6	
130	73.4	53.9	80.9	





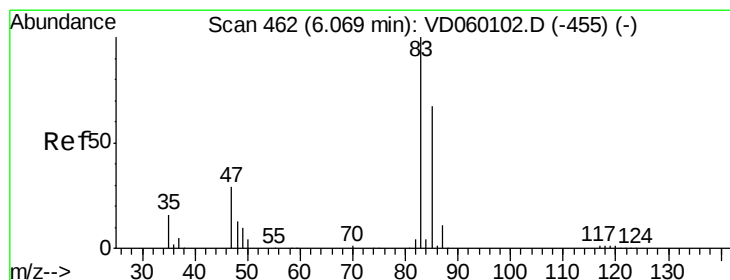
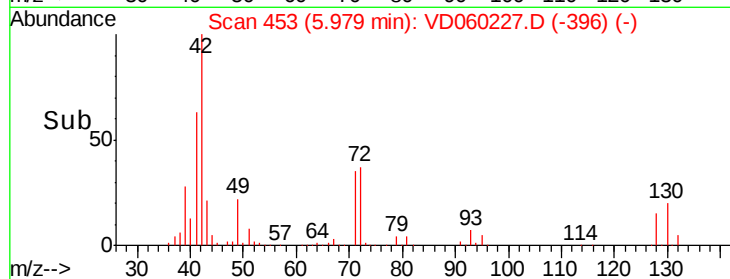
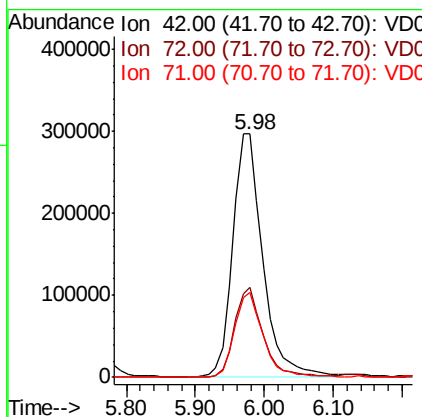
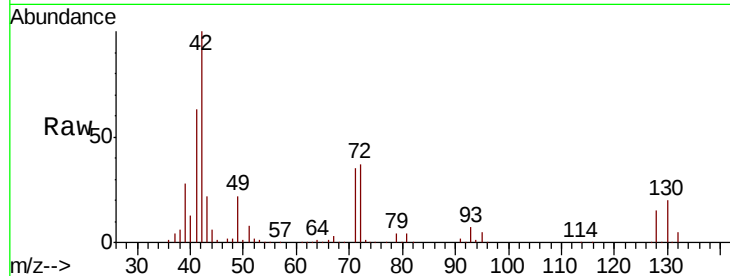
#29
Tetrahydrofuran
Concen: 272.223 ug/l
RT: 5.98 min Scan# 453
Delta R.T. 0.06 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.8	26.9	40.3
71	33.2	26.7	40.1

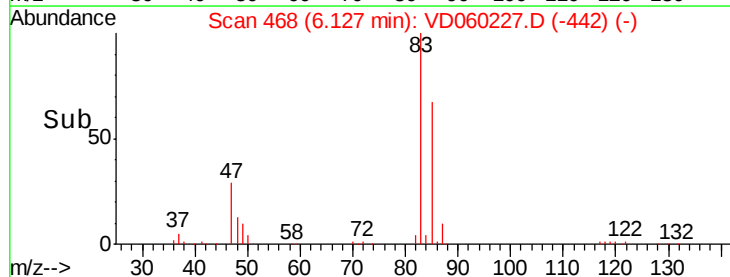
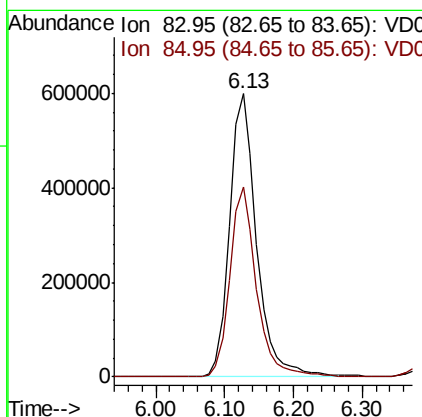
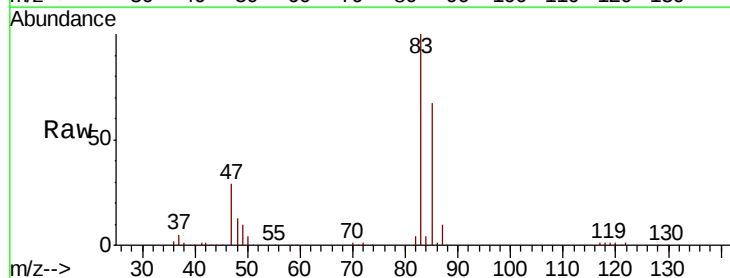
Manual Integrations
APPROVED

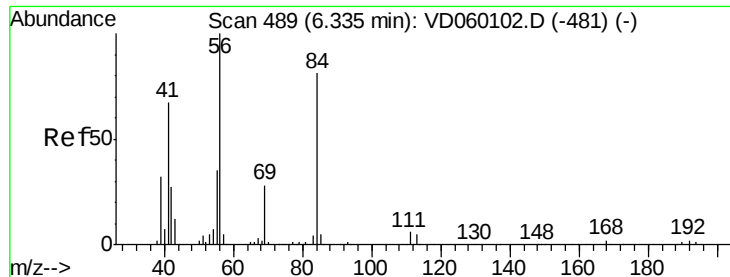
apatel
10/30/2018 12:37:54 PM



#30
Chloroform
Concen: 56.847 ug/l
RT: 6.13 min Scan# 468
Delta R.T. 0.06 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.2	53.8	80.8





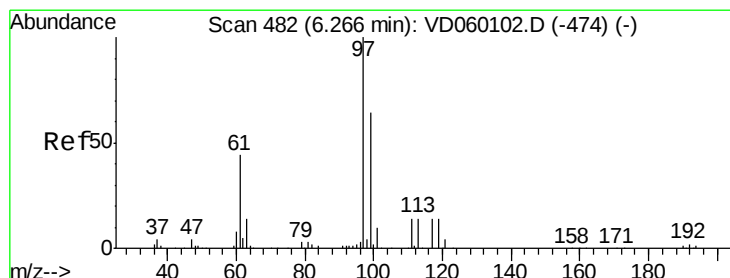
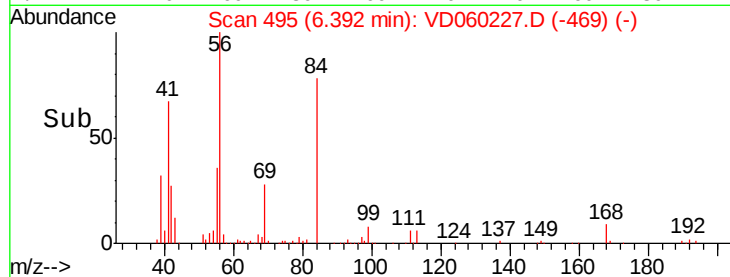
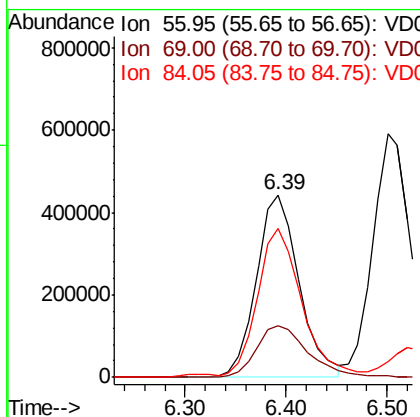
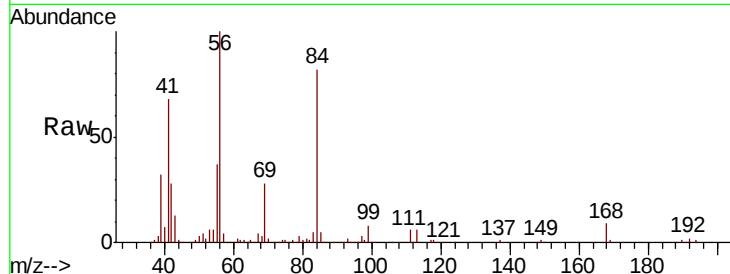
#31
Cyclohexane
Concen: 48.199 ug/l
RT: 6.39 min Scan# 495
Delta R.T. 0.06 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 56 Resp: 1301035
Ion Ratio Lower Upper
56 100
69 28.1 22.8 34.2
84 81.9 64.9 97.3

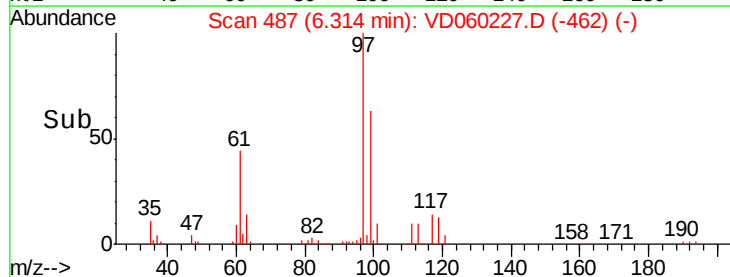
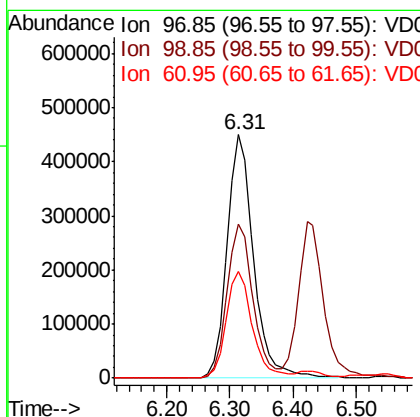
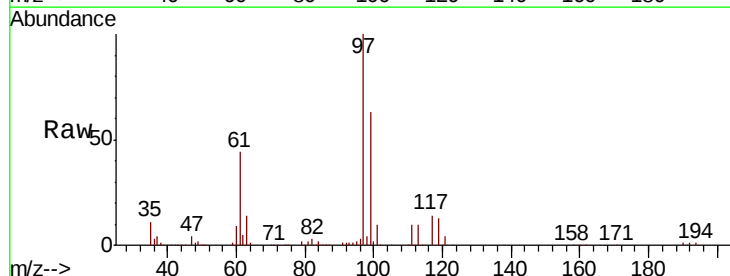
Manual Integrations
APPROVED

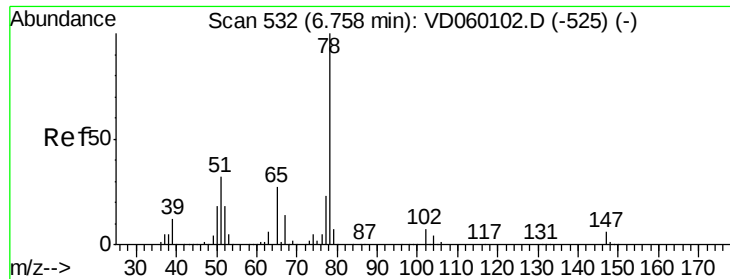
apatel
10/30/2018 12:37:54 PM



#32
1,1,1-Trichloroethane
Concen: 55.629 ug/l
RT: 6.31 min Scan# 487
Delta R.T. 0.05 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion: 97 Resp: 1299978
Ion Ratio Lower Upper
97 100
99 63.2 51.4 77.0
61 44.1 35.5 53.3





#33

1,2-Dichloroethane-d4

Concen: 55.629 ug/l

RT: 6.81 min Scan# 537

Delta R.T. 0.05 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 680117

Ion Ratio Lower Upper

65 100

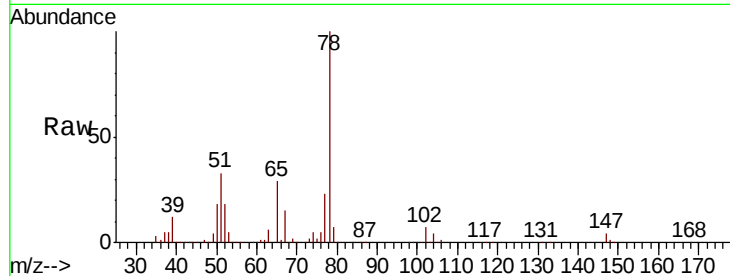
67 51.8 0.0 106.2

Manual Integrations

APPROVED

apatel

10/30/2018 12:37:54 PM



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.81

250000

200000

150000

100000

50000

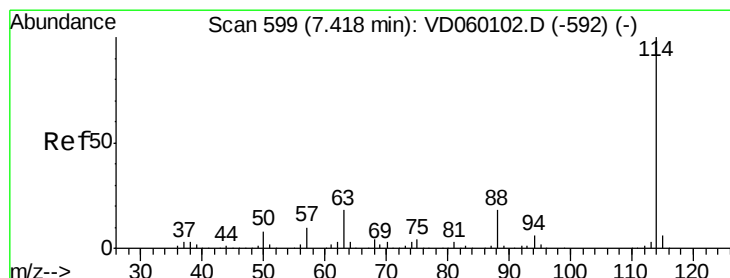
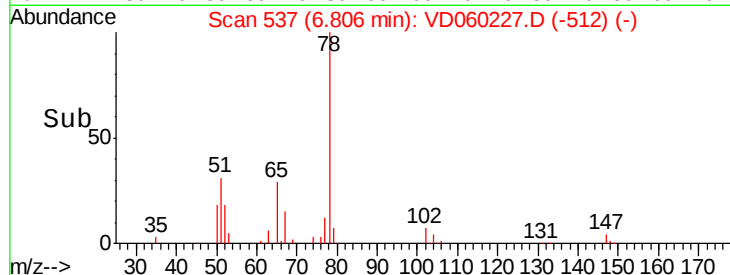
0

6.70

6.80

6.90

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.46 min Scan# 604

Delta R.T. 0.05 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

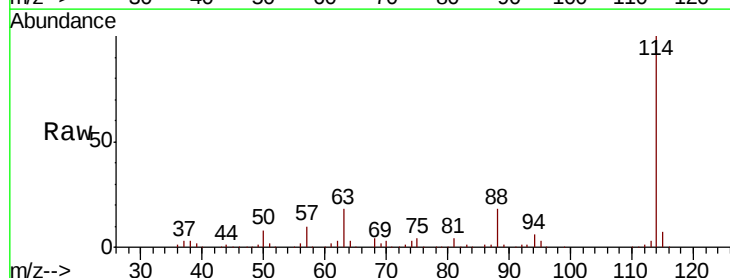
Tgt Ion: 114 Resp: 2293381

Ion Ratio Lower Upper

114 100

63 18.0 0.0 36.0

88 18.5 0.0 36.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

1200000

1000000

800000

600000

400000

200000

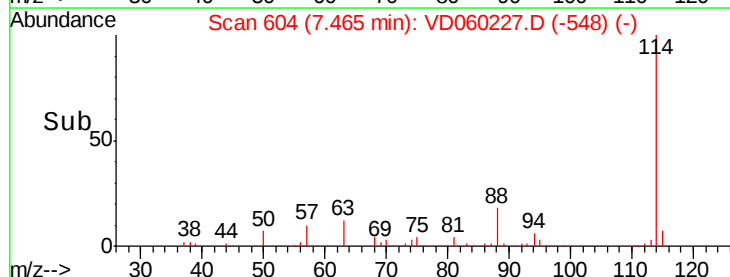
0

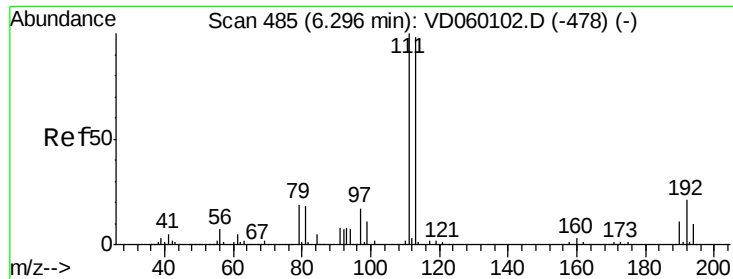
7.40

7.46

7.60

Time-->





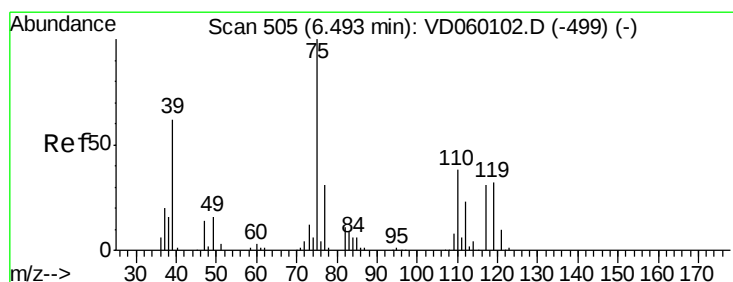
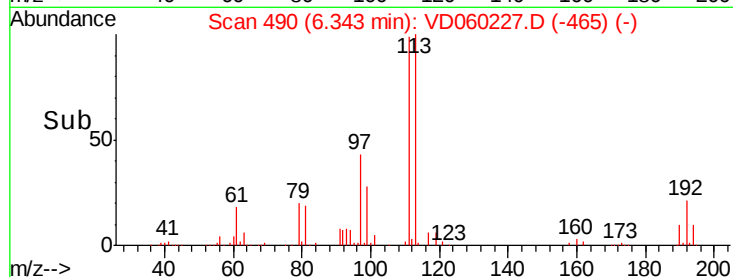
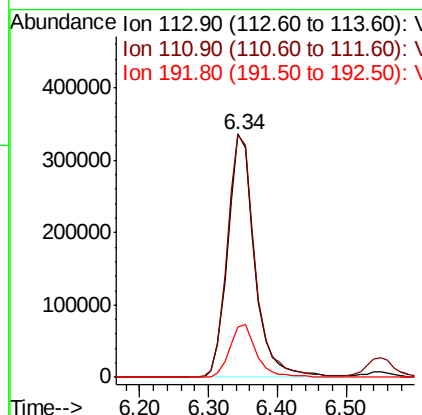
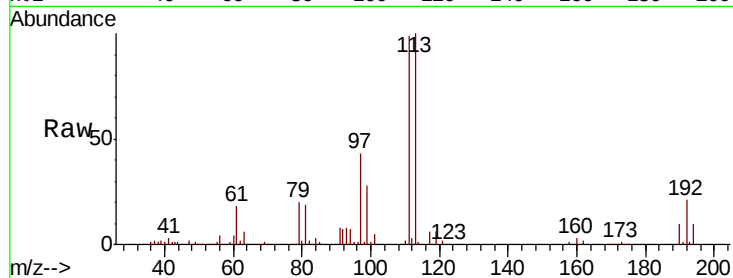
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.34 min Scan# 490
Delta R.T. 0.05 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	909197		
111	99.4	81.5	122.3	
192	20.8	17.4	26.0	

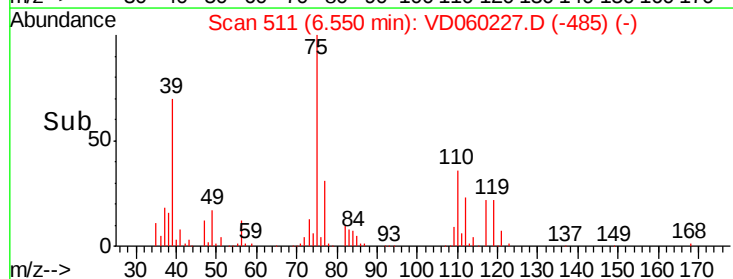
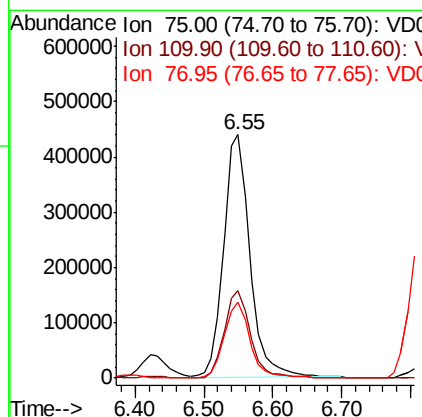
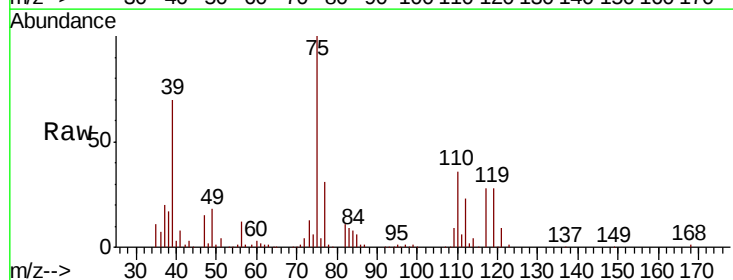
Manual Integrations
APPROVED

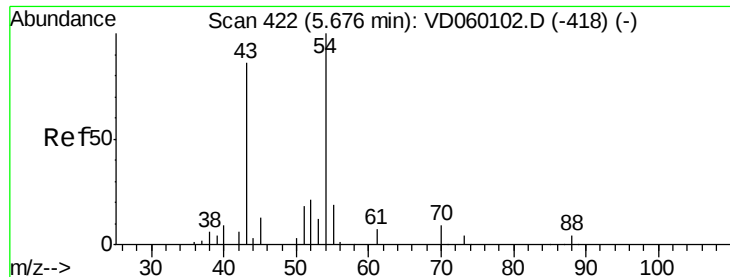
apatel
10/30/2018 12:37:54 PM



#36
1,1-Dichloropropene
Concen: 52.767 ug/l
RT: 6.55 min Scan# 511
Delta R.T. 0.06 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1156391		
110	36.0	19.0	57.0	
77	31.4	24.9	37.3	





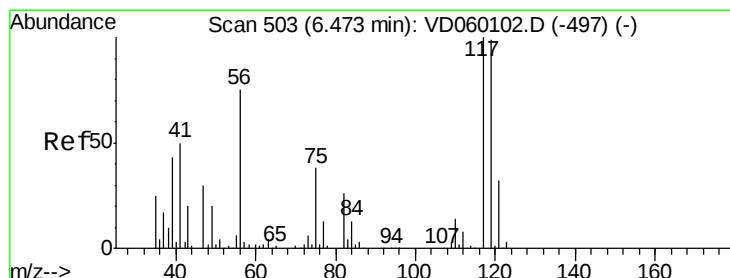
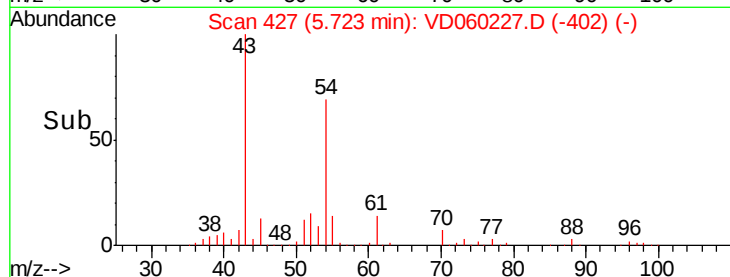
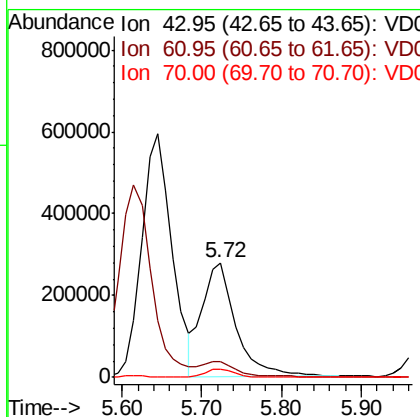
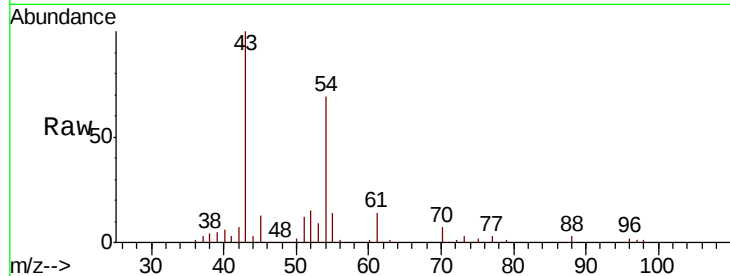
#37
Ethyl Acetate
Concen: 55.599 ug/l
RT: 5.72 min Scan# 427
Delta R.T. 0.05 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.5	15.7
70	7.4	6.3	9.5

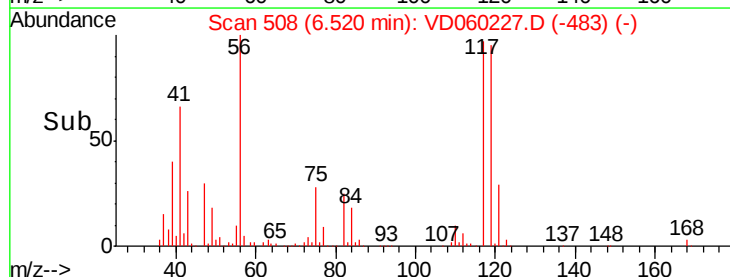
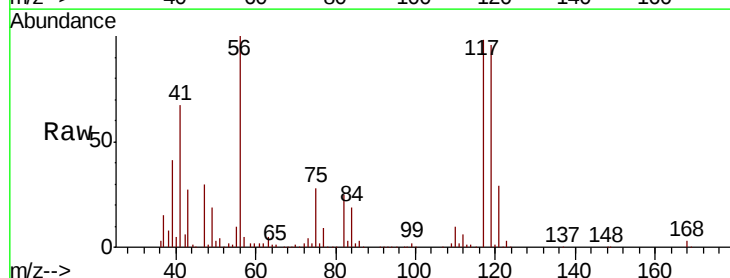
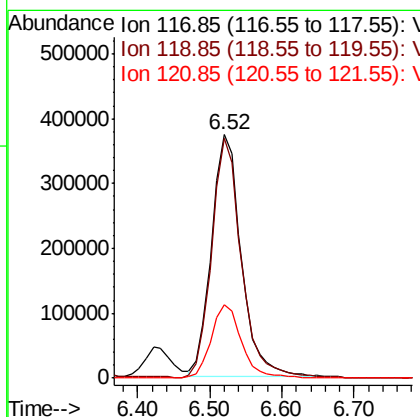
Manual Integrations
APPROVED

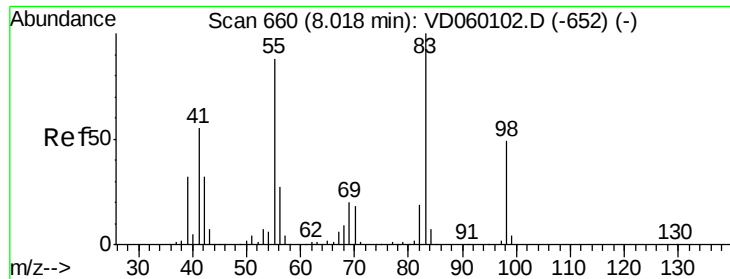
apatel
10/30/2018 12:37:54 PM



#38
Carbon Tetrachloride
Concen: 53.354 ug/l
RT: 6.52 min Scan# 508
Delta R.T. 0.05 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.2	77.8	116.6
121	29.9	24.8	37.2





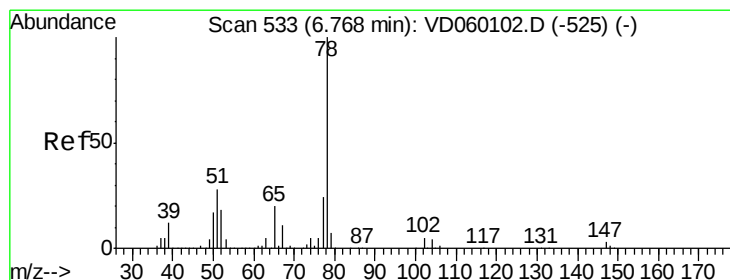
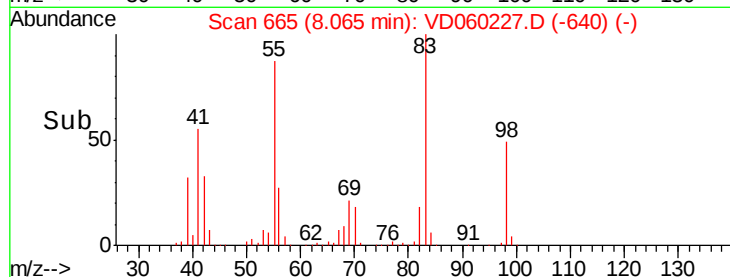
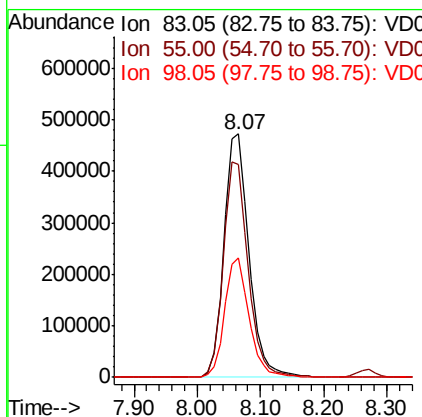
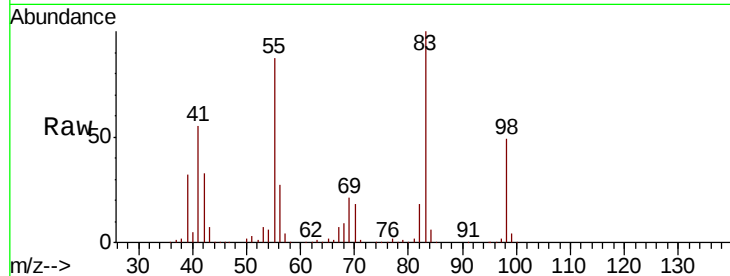
#39
Methvlcvclohexane
Concen: 52.165 ug/l
RT: 8.07 min Scan# 665
Delta R.T. 0.05 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 83 Resp: 1298916
Ion Ratio Lower Upper
83 100
55 87.4 70.5 105.7
98 49.1 39.4 59.2

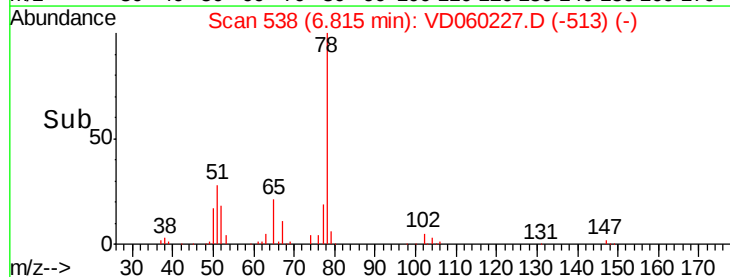
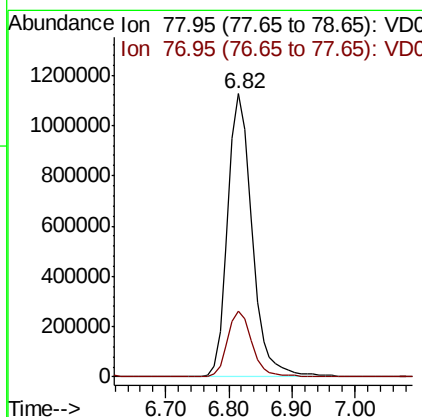
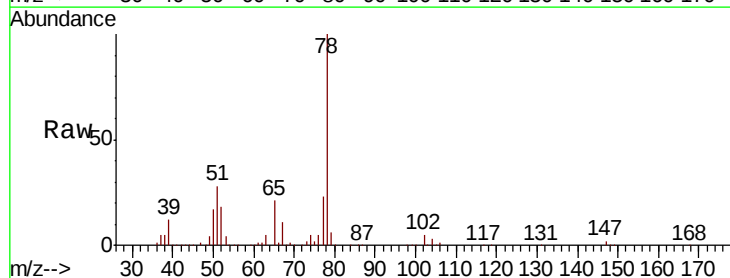
Manual Integrations
APPROVED

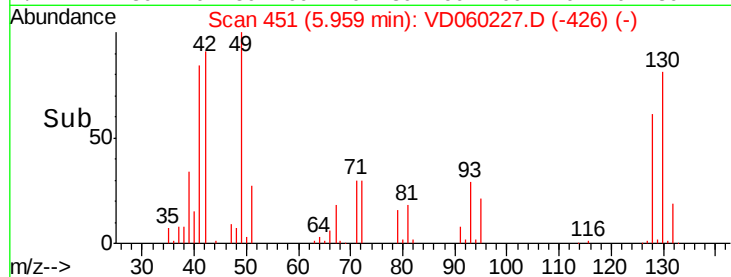
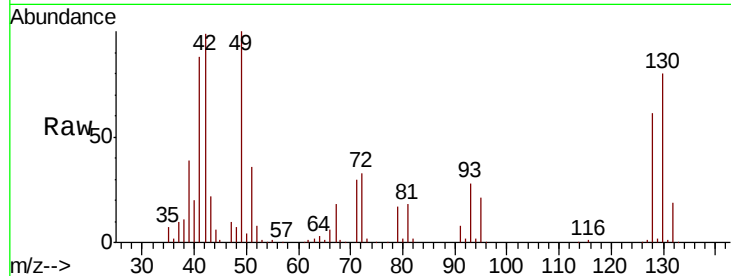
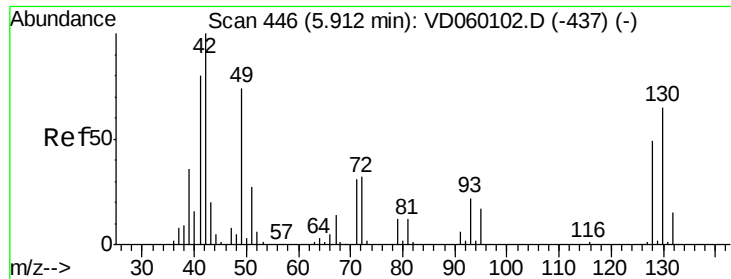
apatel
10/30/2018 12:37:54 PM



#40
Benzene
Concen: 52.855 ug/l
RT: 6.82 min Scan# 538
Delta R.T. 0.05 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion: 78 Resp: 3030351
Ion Ratio Lower Upper
78 100
77 23.4 19.0 28.4





#41

Methacrylonitrile

Concen: 60.230 ug/l m

RT: 5.96 min Scan# 451

Delta R.T. 0.05 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Tot Ion	41	Resp	495215
Ion Ratio	Lower	Upper	
41	100		
39	43.9	36.0	54.0
67	20.7	13.9	20.9
52	9.3	6.1	9.1#

Instrument :

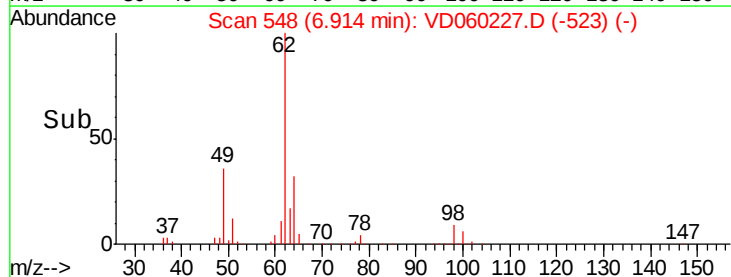
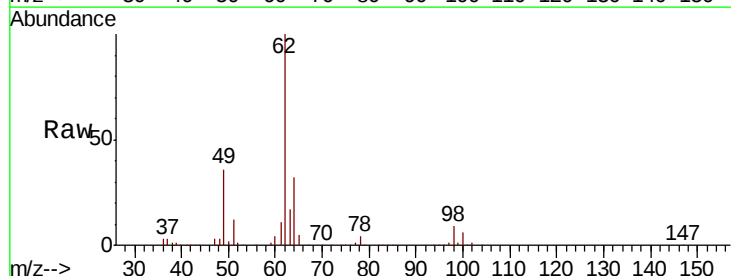
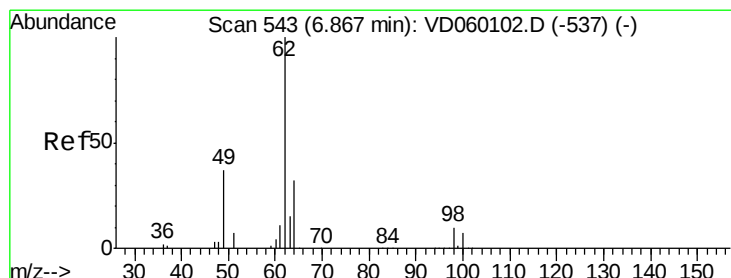
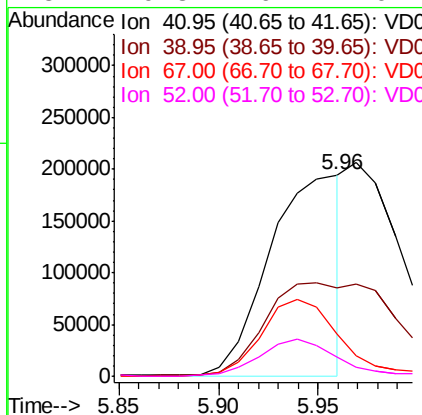
MSVOA_D

ClientSampleId :

VSTDCCC050

Manual Integrations
APPROVED

apatel
10/30/2018 12:37:54 PM



#42

1,2-Dichloroethane

Concen: 54.876 ug/l

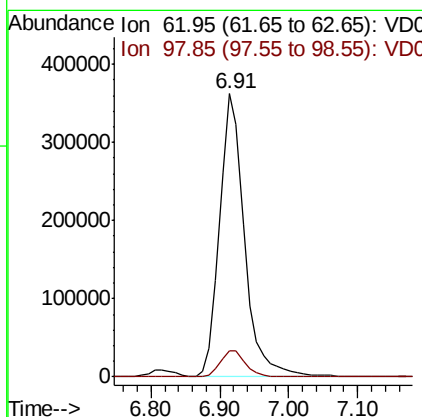
RT: 6.91 min Scan# 548

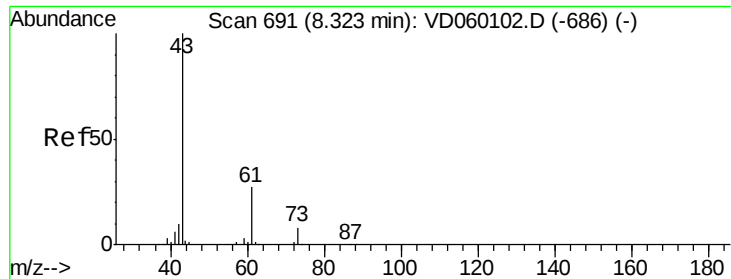
Delta R.T. 0.05 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Tgt Ion	62	Resp	902021
Ion Ratio	Lower	Upper	
62	100		
98	9.0	0.0	20.6





#43

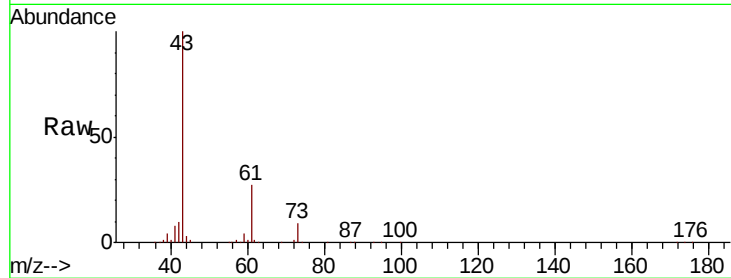
Isopropyl Acetate
 Concen: 54.272 ug/l
 RT: 8.37 min Scan# 696
 Delta R.T. 0.05 min
 Lab File: VD060227.D
 Acq: 29 Oct 2018 13:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

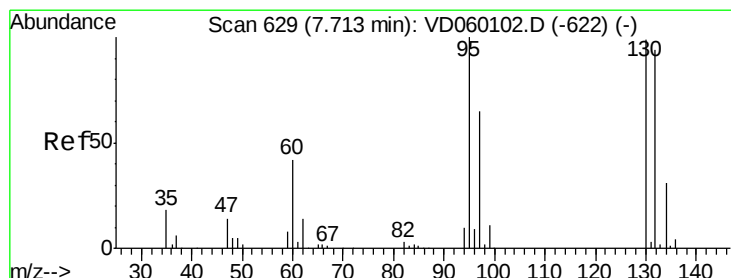
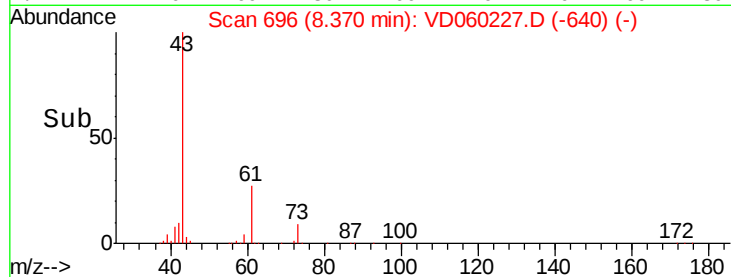
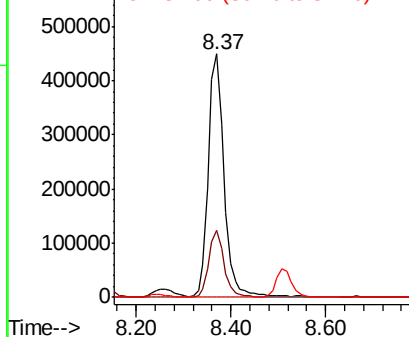
Tot Ion: 43 Resp: 1038634
 Ion Ratio Lower Upper
 43 100
 61 27.4 21.4 32.2
 87 0.2 0.2 0.2

Manual Integrations
 APPROVED

apatel
 10/30/2018 12:37:54 PM



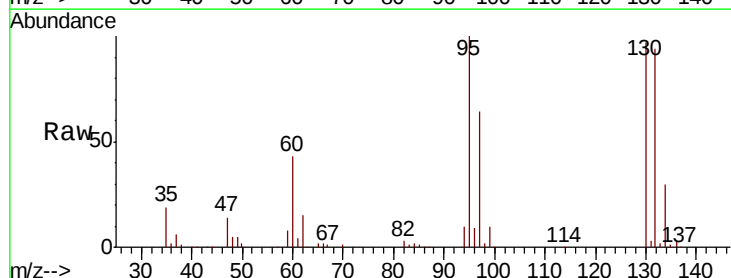
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



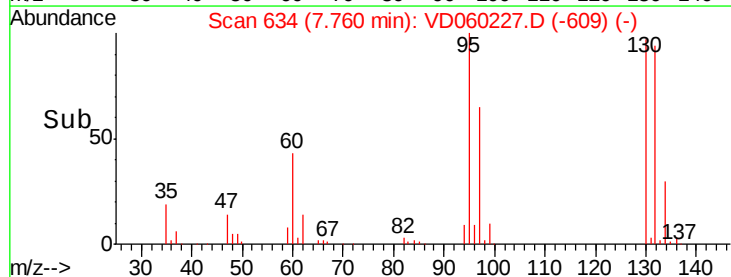
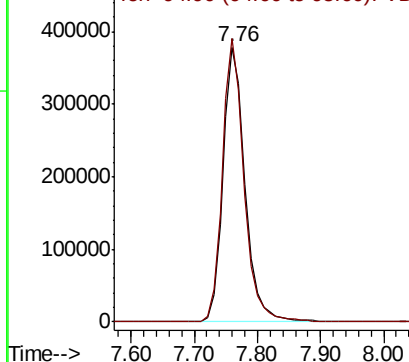
#44

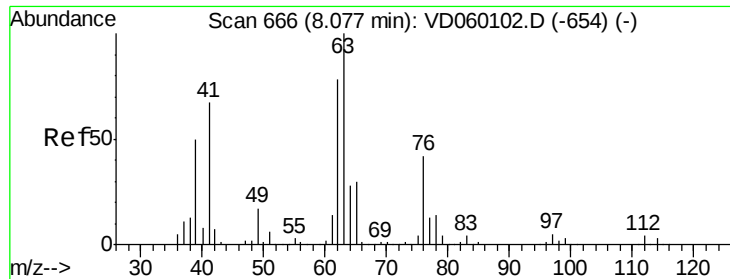
Trichloroethene
 Concen: 51.657 ug/l
 RT: 7.76 min Scan# 634
 Delta R.T. 0.05 min
 Lab File: VD060227.D
 Acq: 29 Oct 2018 13:58

Tgt Ion: 130 Resp: 916810
 Ion Ratio Lower Upper
 130 100
 95 102.9 0.0 202.2



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





#45

1,2-Dichloropropane

Concen: 55.041 ug/l

RT: 8.12 min Scan# 671

Delta R.T. 0.05 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 826294

Ion Ratio Lower Upper

63 100

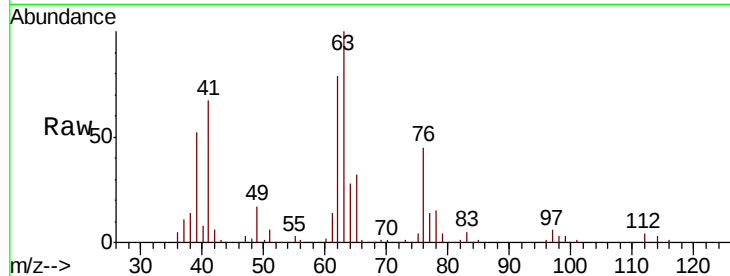
65 31.6 24.1 36.1

Manual Integrations

APPROVED

apatel

10/30/2018 12:37:54 PM



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.12

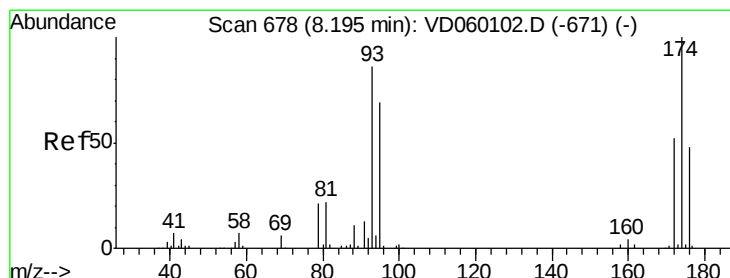
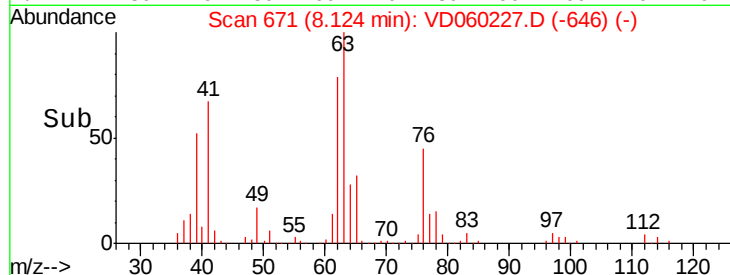
300000

200000

100000

0

Time-->



#46

Dibromomethane

Concen: 53.651 ug/l

RT: 8.23 min Scan# 682

Delta R.T. 0.04 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

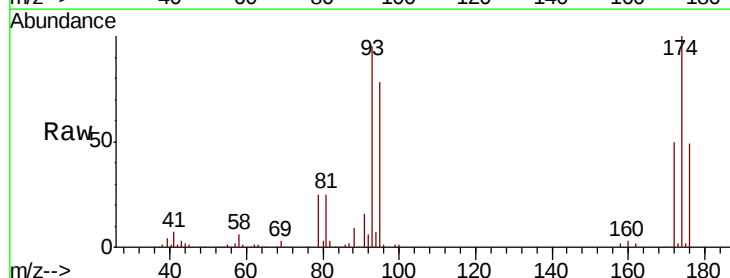
Tgt Ion: 93 Resp: 521453

Ion Ratio Lower Upper

93 100

95 82.8 63.8 95.6

174 105.8 92.9 139.3



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

8.23

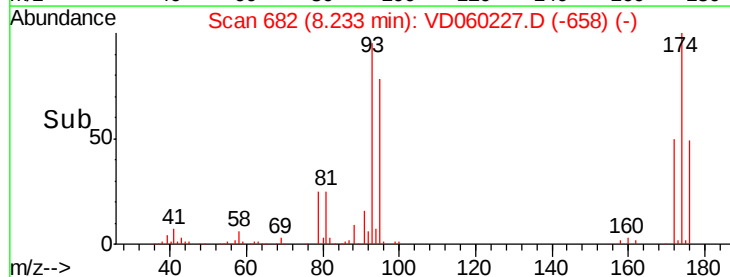
300000

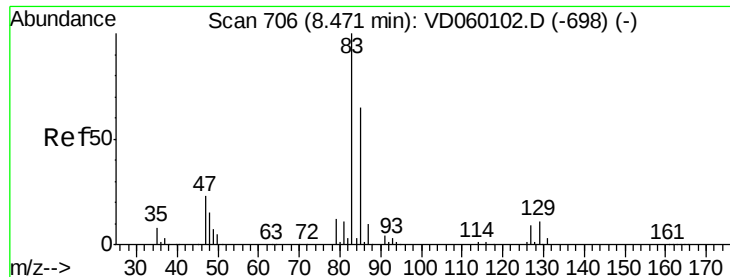
200000

100000

0

Time-->





#47

Bromodichloromethane

Concen: 56.421 ug/l

RT: 8.51 min Scan# 710

Delta R.T. 0.04 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 1168427

Ion Ratio Lower Upper

83 100

85 64.5 52.2 78.2

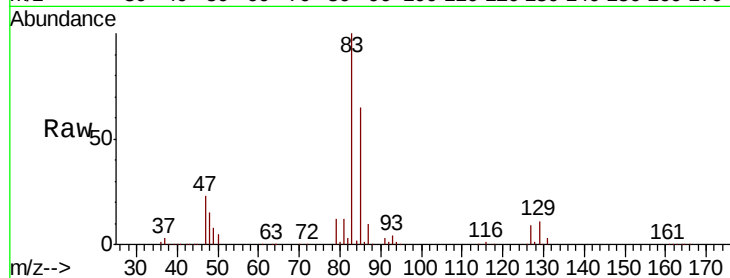
127 8.5 7.4 11.0

Manual Integrations

APPROVED

apatel

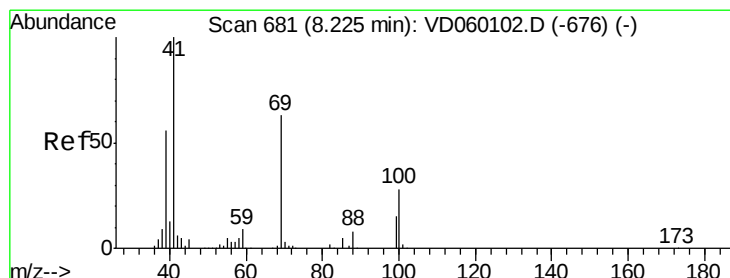
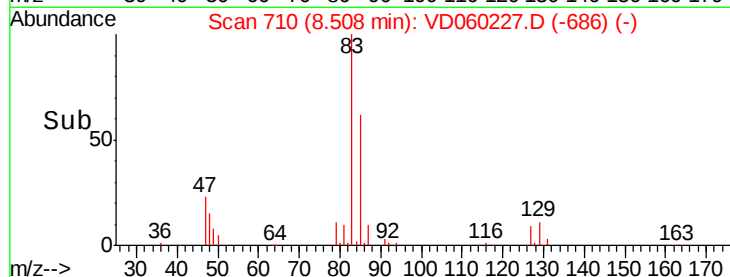
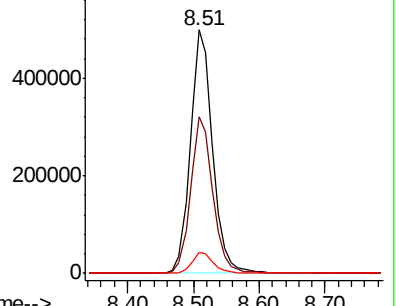
10/30/2018 12:37:54 PM



Abundance Ion 82.85 (82.55 to 83.55): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 55.224 ug/l

RT: 8.26 min Scan# 685

Delta R.T. 0.04 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

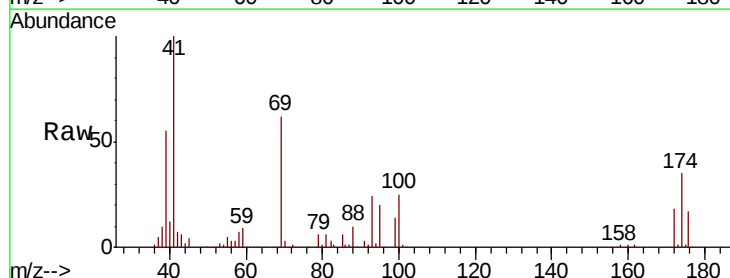
Tgt Ion: 41 Resp: 601997

Ion Ratio Lower Upper

41 100

69 61.6 49.7 74.5

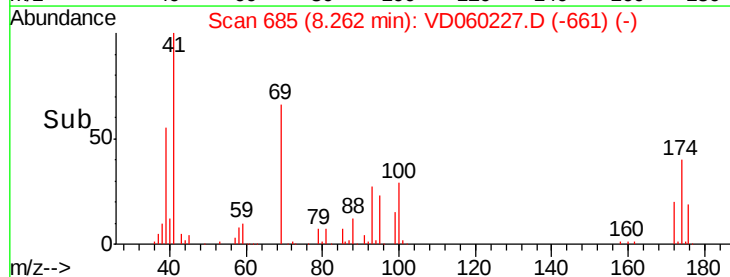
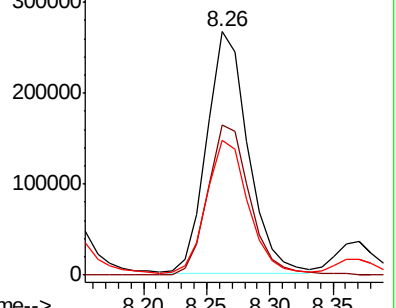
39 55.2 45.2 67.8

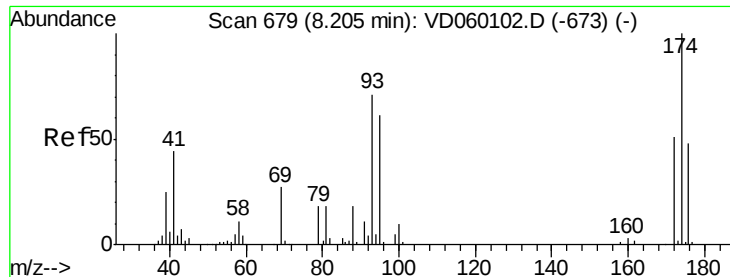


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC





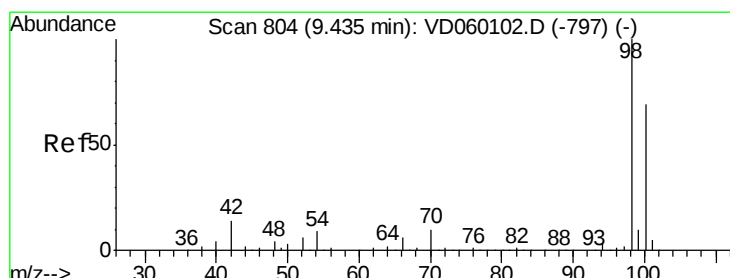
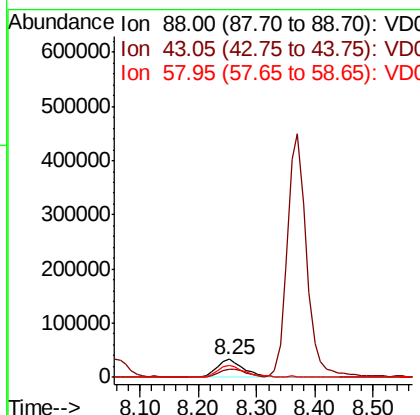
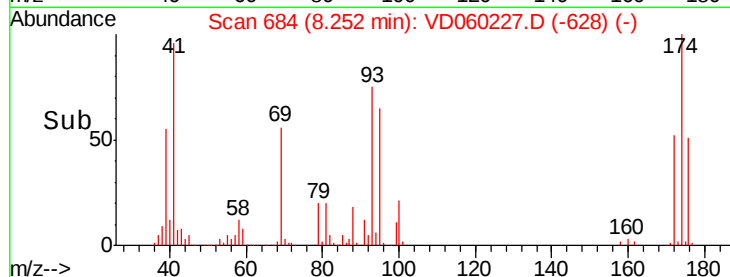
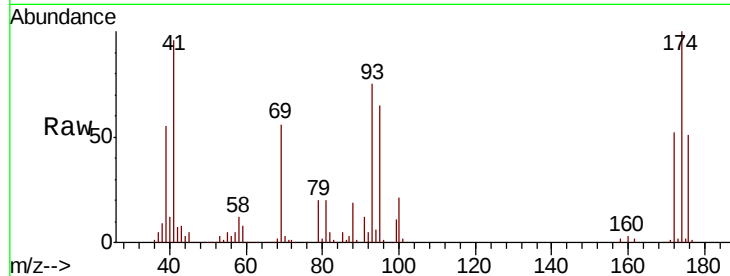
#49
1,4-Dioxane
Concen: 1030.633 ug/l
RT: 8.25 min Scan# 684
Delta R.T. 0.05 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	42.2	33.7	50.5
58	67.0	49.1	73.7

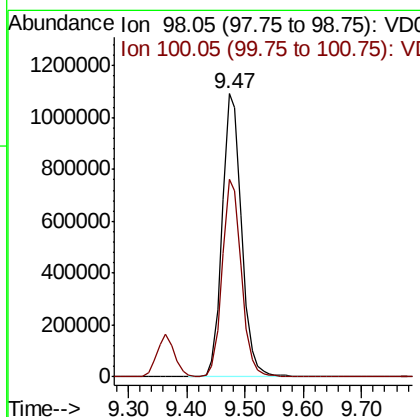
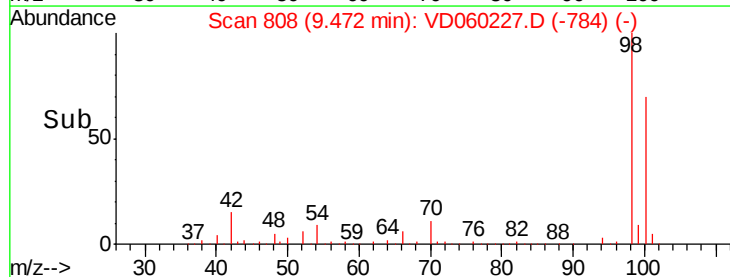
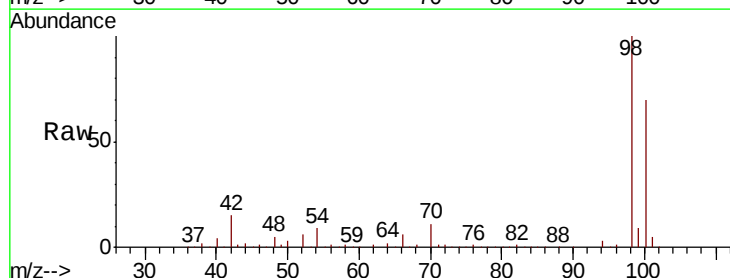
Manual Integrations
APPROVED

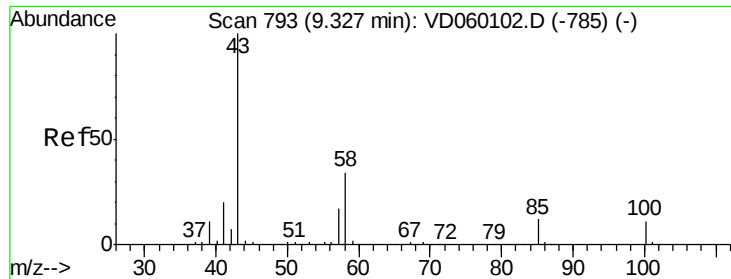
apatel
10/30/2018 12:37:54 PM



#50
Toluene-d8
Concen: 1030.633 ug/l
RT: 9.47 min Scan# 808
Delta R.T. 0.04 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.7	55.4	83.0





#51

4-Methyl-2-Pentanone

Concen: 278.523 ug/l

RT: 9.36 min Scan# 797

Delta R.T. 0.04 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3361946

Ion Ratio Lower Upper

43 100

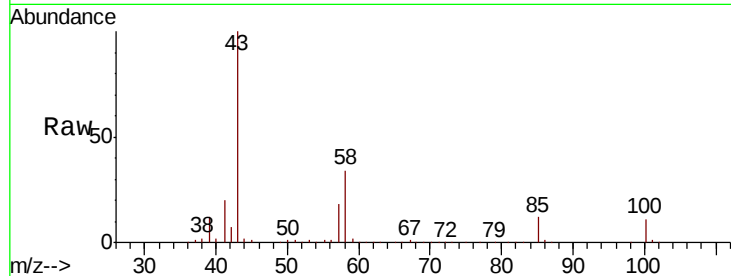
58 33.7 27.2 40.8

Manual Integrations

APPROVED

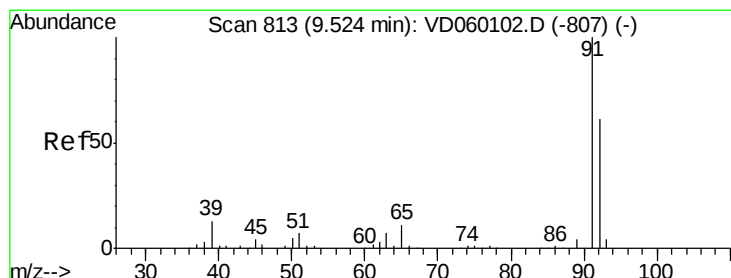
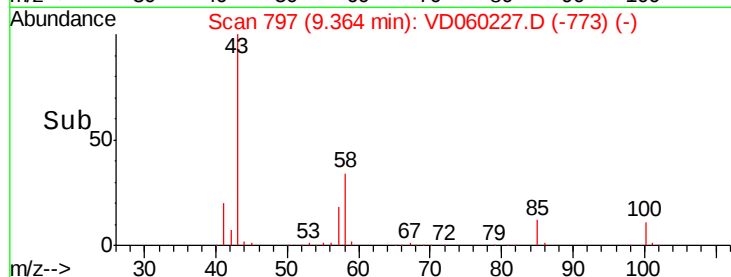
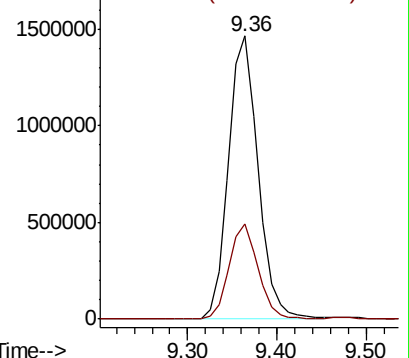
apatel

10/30/2018 12:37:54 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 52.673 ug/l

RT: 9.57 min Scan# 818

Delta R.T. 0.05 min

Lab File: VD060227.D

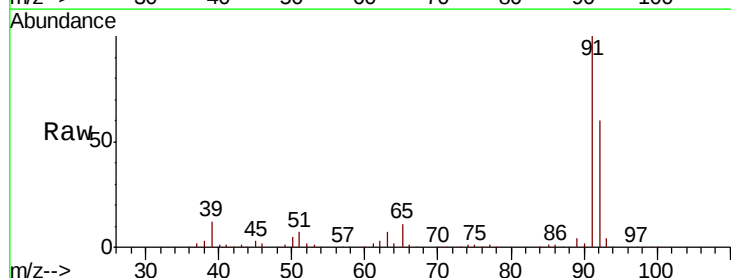
Acq: 29 Oct 2018 13:58

Tgt Ion: 92 Resp: 1944966

Ion Ratio Lower Upper

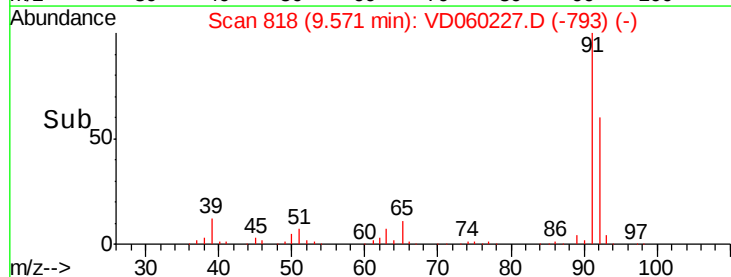
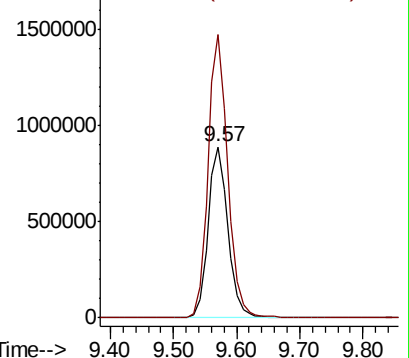
92 100

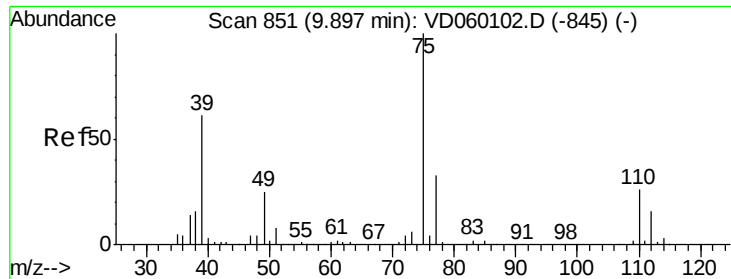
91 165.3 131.9 197.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





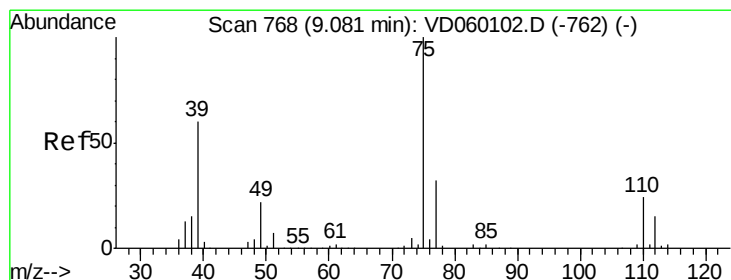
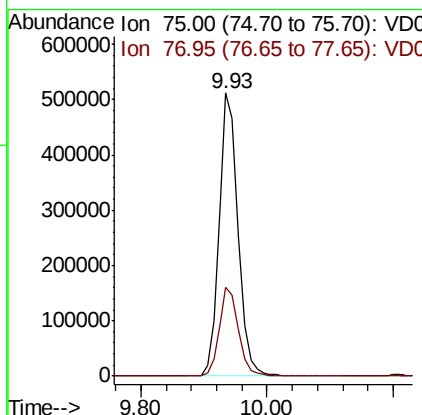
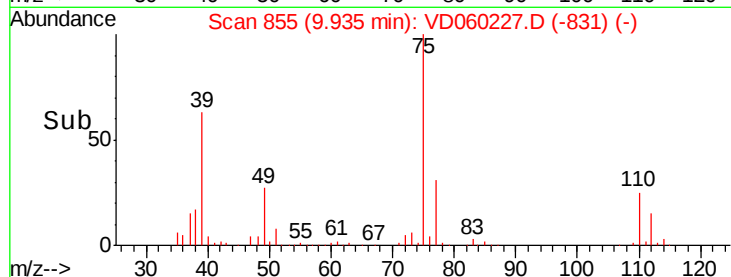
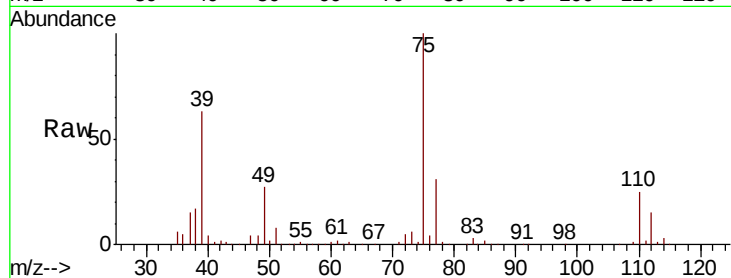
#53
t-1,3-Dichloropropene
Concen: 57.394 ug/l
RT: 9.93 min Scan# 855
Delta R.T. 0.04 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 1075468
Ion Ratio Lower Upper
75 100
77 31.5 26.2 39.2

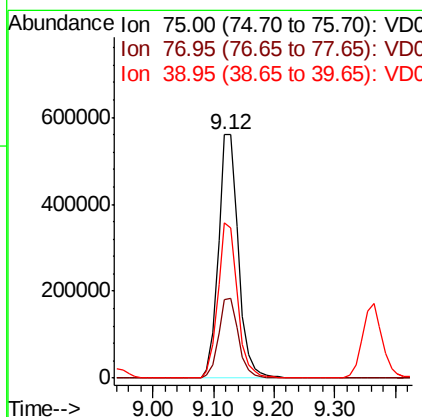
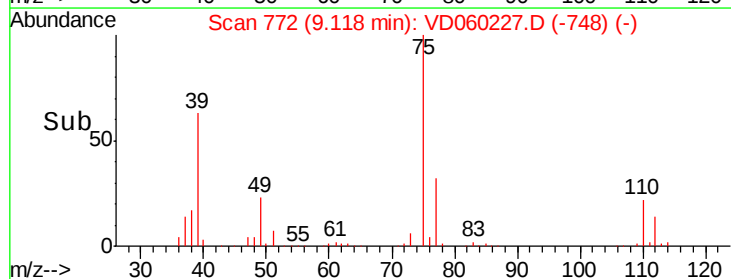
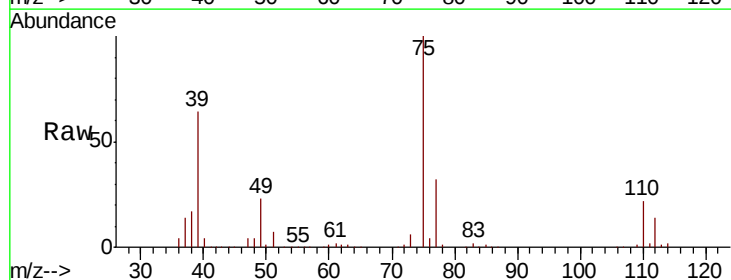
Manual Integrations
APPROVED

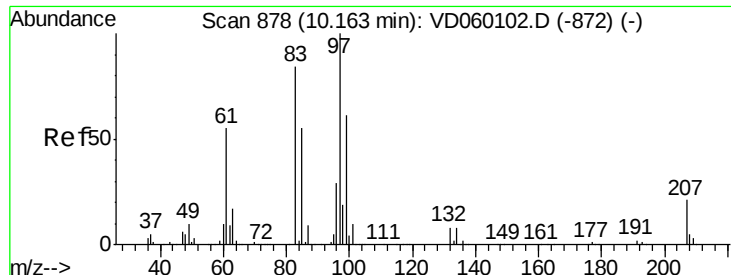
apatel
10/30/2018 12:37:54 PM



#54
cis-1,3-Dichloropropene
Concen: 55.323 ug/l
RT: 9.12 min Scan# 772
Delta R.T. 0.04 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion: 75 Resp: 1280142
Ion Ratio Lower Upper
75 100
77 32.2 25.7 38.5
39 63.6 48.2 72.4





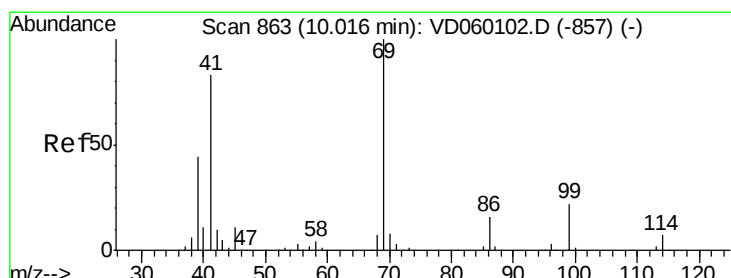
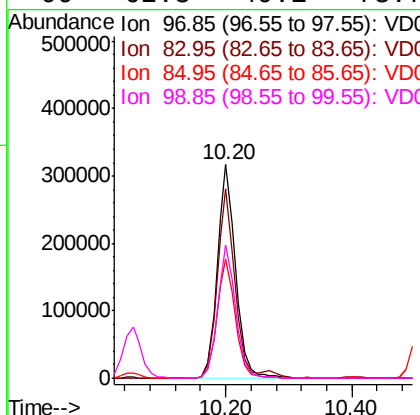
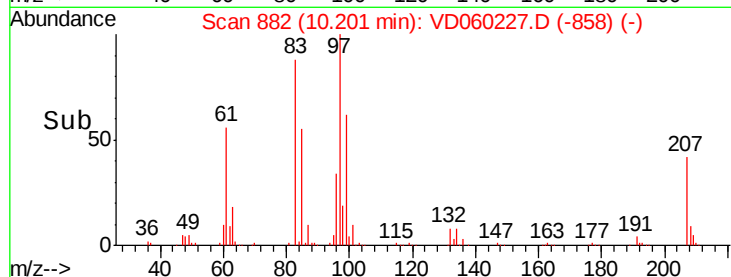
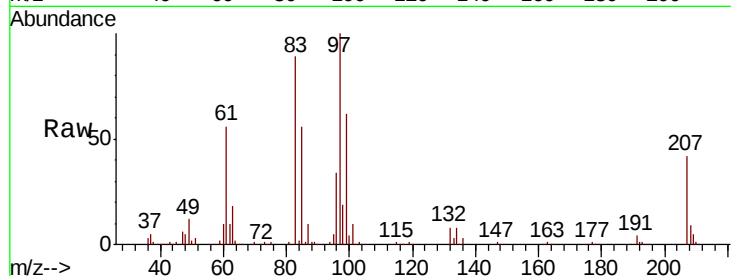
#55
 1,1,2-Trichloroethane
 Concen: 53.290 ug/l
 RT: 10.20 min Scan# 882
 Delta R.T. 0.04 min
 Lab File: VD060227.D
 Acq: 29 Oct 2018 13:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		643283		
83	88.7	67.0	100.6		
85	56.0	43.9	65.9		
99	62.3	49.1	73.7		

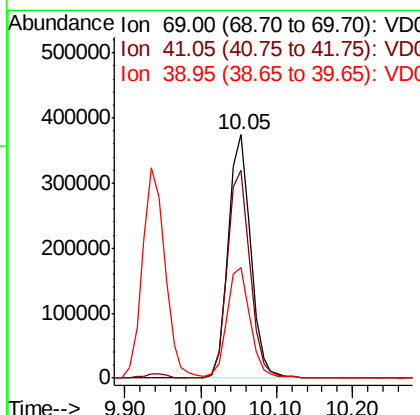
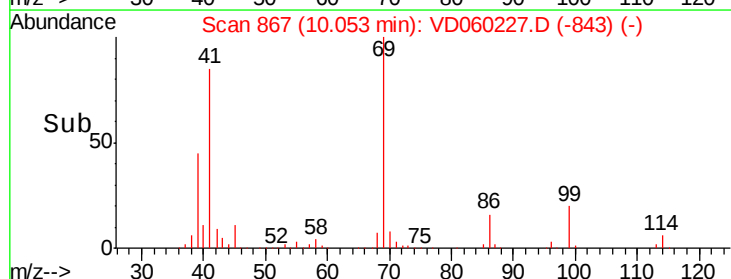
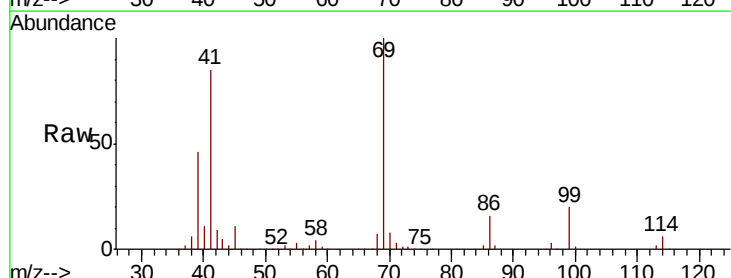
Manual Integrations
 APPROVED

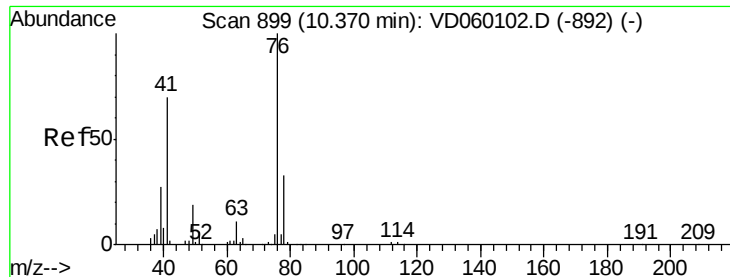
apatel
 10/30/2018 12:37:54 PM



#56
 Ethyl methacrylate
 Concen: 57.207 ug/l
 RT: 10.05 min Scan# 867
 Delta R.T. 0.04 min
 Lab File: VD060227.D
 Acq: 29 Oct 2018 13:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		762283		
41	85.5	66.6	100.0		
39	45.6	36.0	54.0		





#57

1,3-Dichloropropane

Concen: 56.172 ug/l

RT: 10.40 min Scan# 902

Delta R.T. 0.03 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 1034137

Ion Ratio Lower Upper

76 100

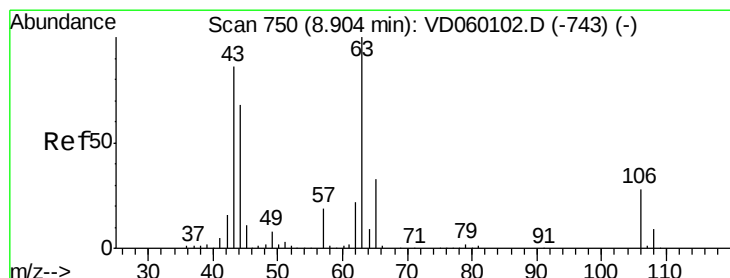
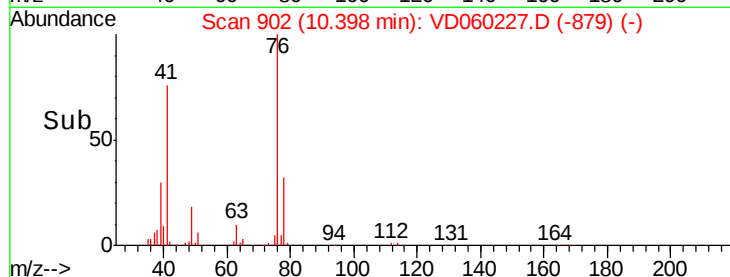
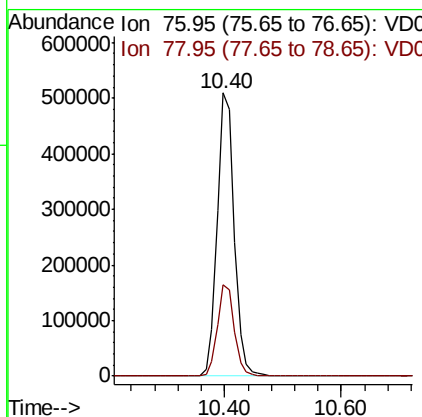
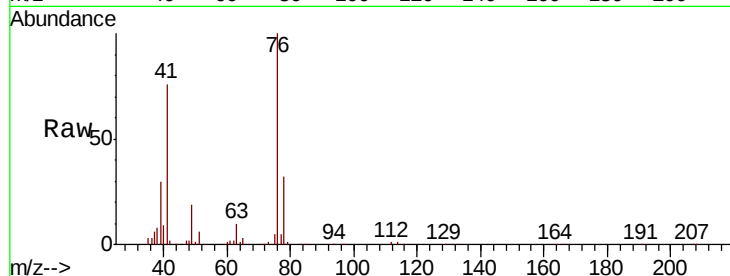
78 32.4 26.2 39.2

Manual Integrations

APPROVED

apatel

10/30/2018 12:37:54 PM



#58

2-Chloroethyl Vinyl ether

Concen: 266.405 ug/l

RT: 8.94 min Scan# 754

Delta R.T. 0.04 min

Lab File: VD060227.D

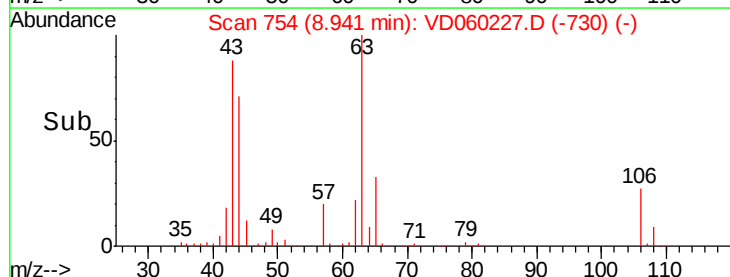
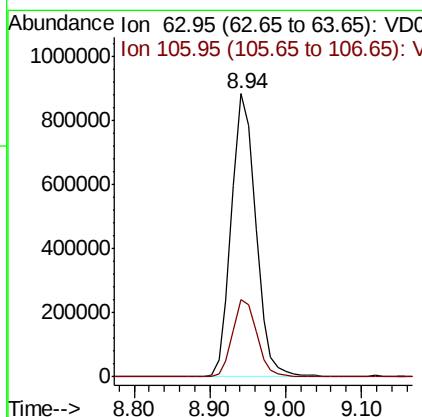
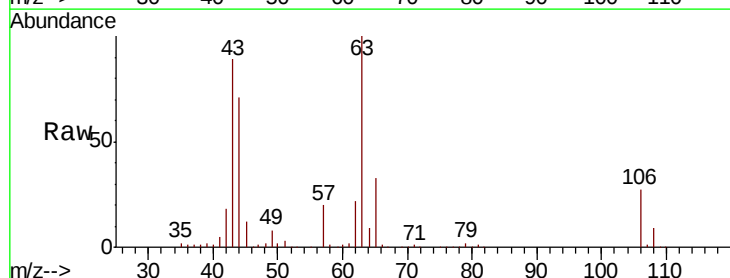
Acq: 29 Oct 2018 13:58

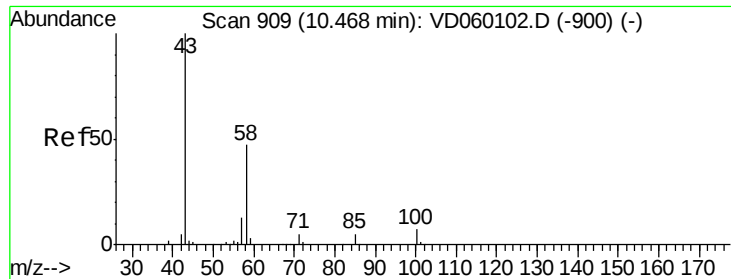
Tgt Ion: 63 Resp: 1971255

Ion Ratio Lower Upper

63 100

106 27.1 22.6 34.0





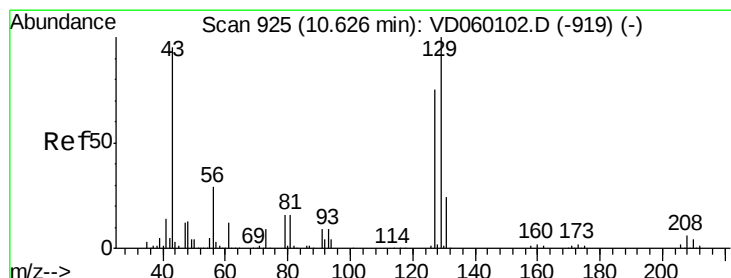
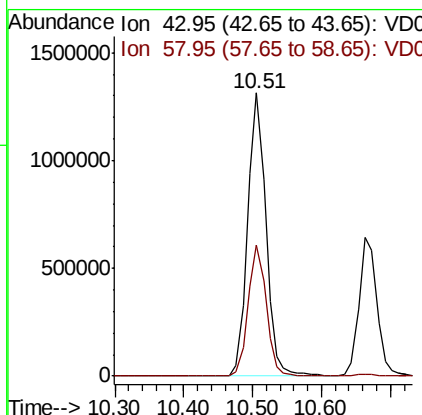
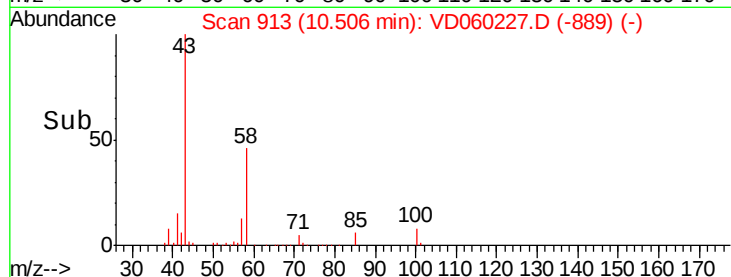
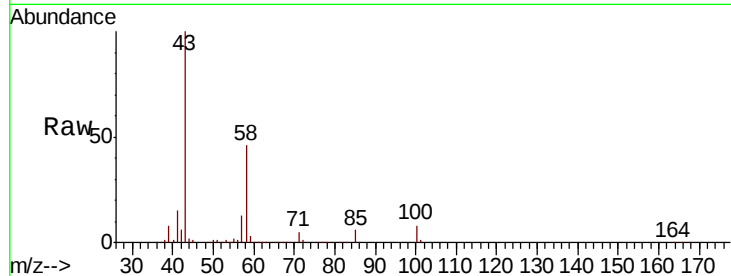
#59
2-Hexanone
Concen: 279.509 ug/l
RT: 10.51 min Scan# 913
Delta R.T. 0.04 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 2426070
Ion Ratio Lower Upper
43 100
58 46.2 23.3 69.9

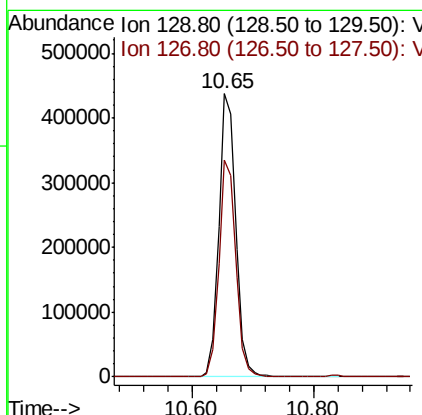
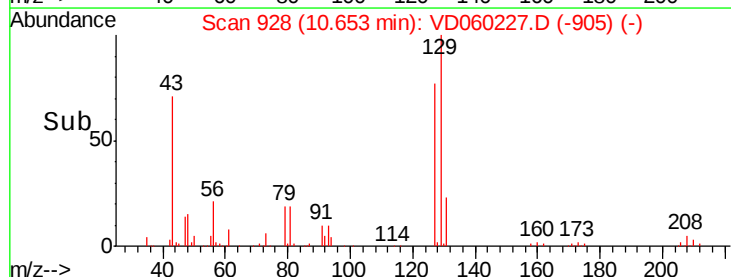
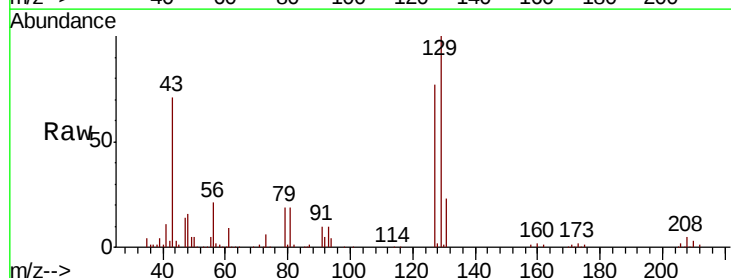
Manual Integrations
APPROVED

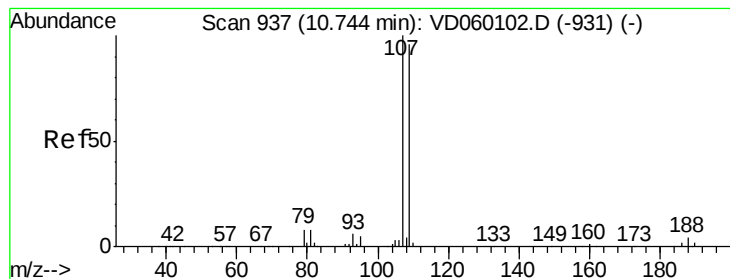
apatel
10/30/2018 12:37:54 PM



#60
Dibromochloromethane
Concen: 56.984 ug/l
RT: 10.65 min Scan# 928
Delta R.T. 0.03 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion: 129 Resp: 843976
Ion Ratio Lower Upper
129 100
127 76.6 37.4 112.2





#61

1,2-Dibromoethane

Concen: 54.762 ug/l

RT: 10.77 min Scan# 940

Delta R.T. 0.03 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 702380

Ion Ratio Lower Upper

107 100

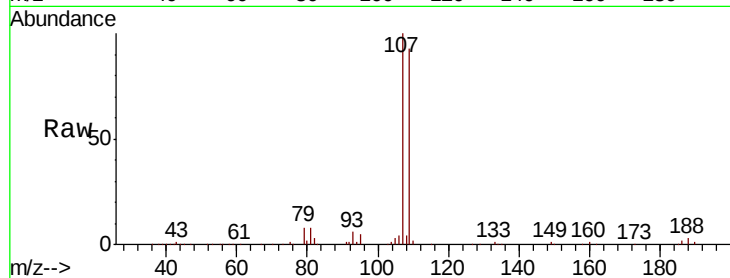
109 92.8 77.1 115.7

Manual Integrations

APPROVED

apatel

10/30/2018 12:37:54 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

10.77

400000

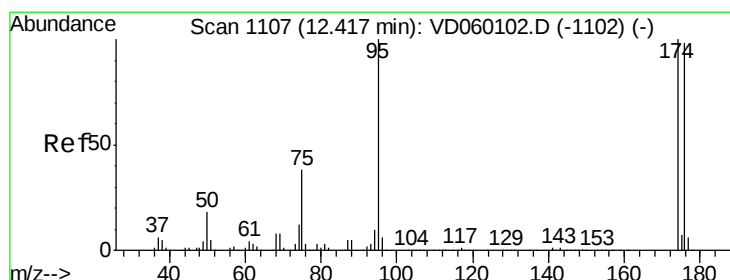
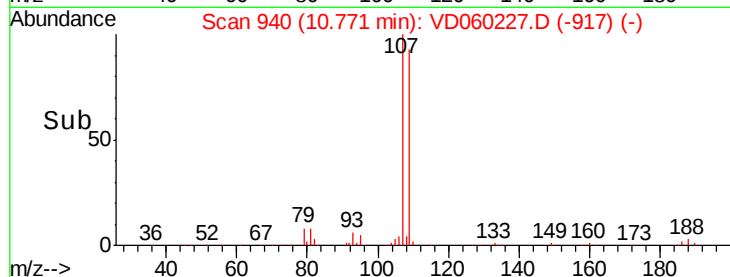
300000

200000

100000

0

Time--> 10.60 10.80 11.00



#62

4-Bromofluorobenzene

Concen: 54.762 ug/l

RT: 12.43 min Scan# 1109

Delta R.T. 0.02 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

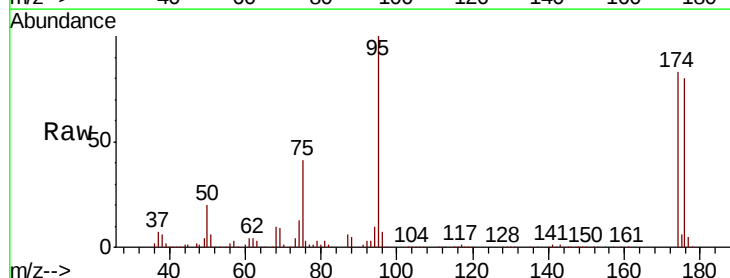
Tgt Ion: 95 Resp: 934259

Ion Ratio Lower Upper

95 100

174 83.2 0.0 200.2

176 80.1 0.0 195.6



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

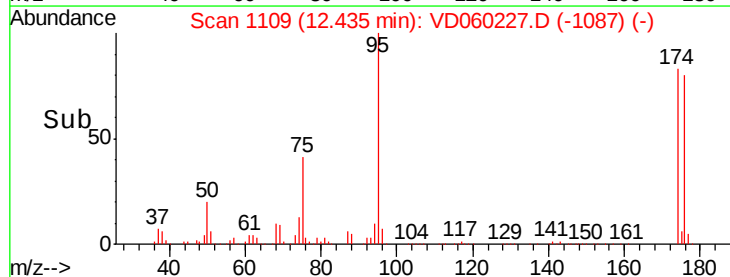
600000

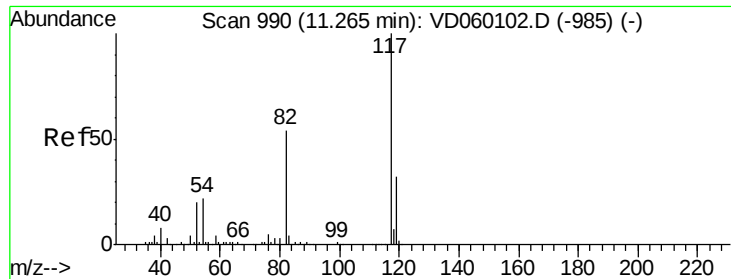
400000

200000

0

Time--> 12.40 12.50





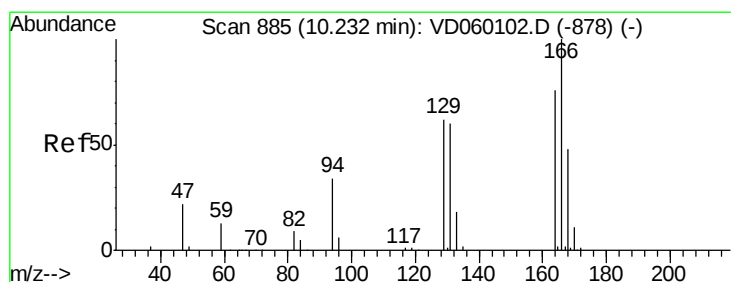
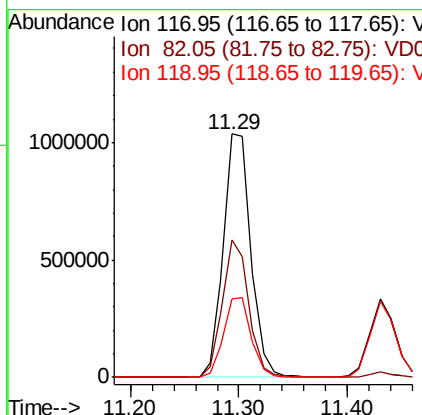
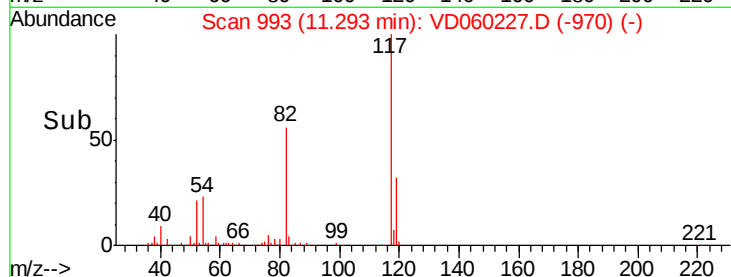
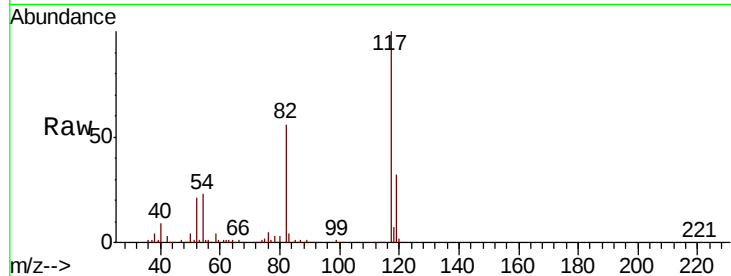
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.29 min Scan# 993
Delta R.T. 0.03 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 1842098
Ion Ratio Lower Upper
117 100
82 56.3 43.4 65.2
119 32.1 26.0 39.0

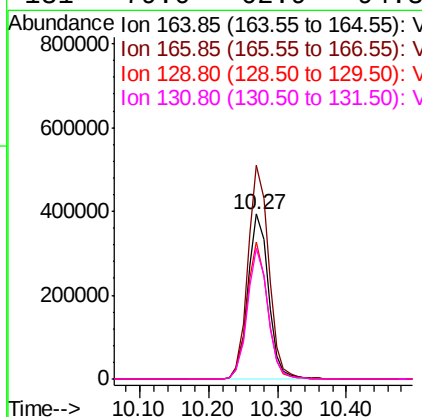
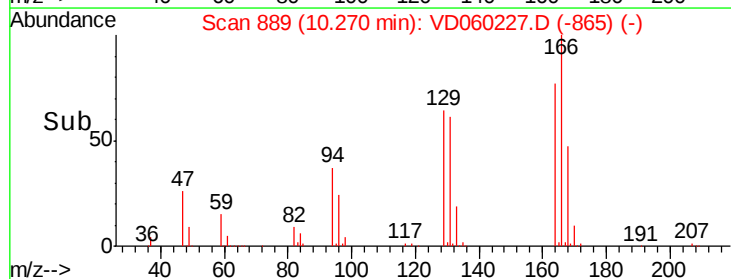
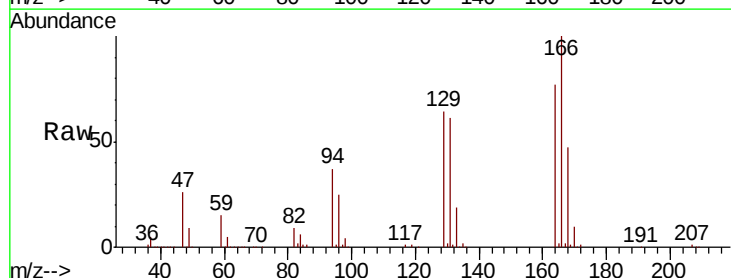
Manual Integrations
APPROVED

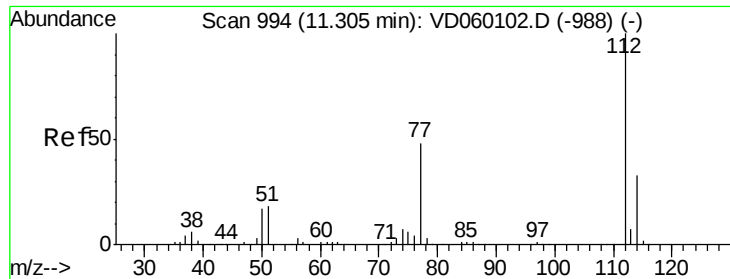
apatel
10/30/2018 12:37:54 PM



#64
Tetrachloroethene
Concen: 50.857 ug/l
RT: 10.27 min Scan# 889
Delta R.T. 0.04 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion:164 Resp: 820526
Ion Ratio Lower Upper
164 100
166 129.7 105.4 158.0
129 83.4 65.7 98.5
131 79.0 62.9 94.3





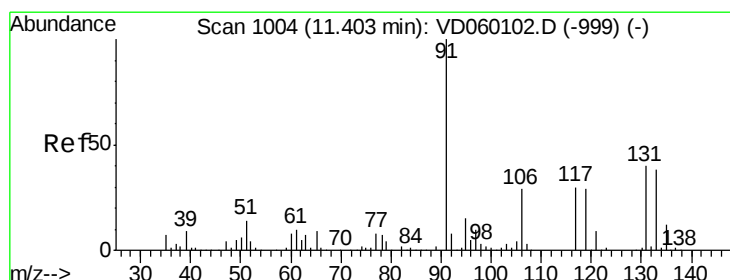
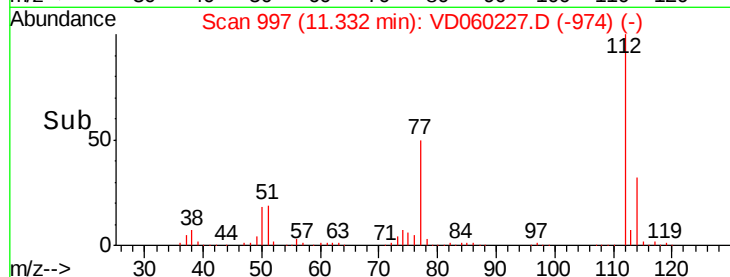
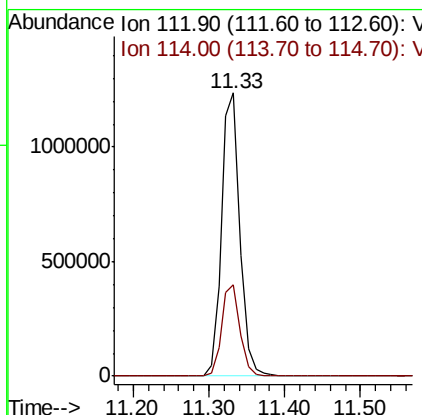
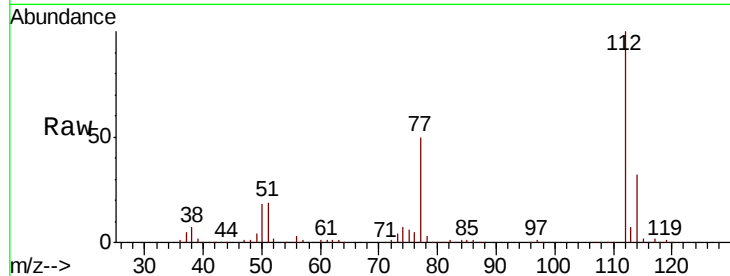
#65
Chlorobenzene
Concen: 52.383 ug/l
RT: 11.33 min Scan# 997
Delta R.T. 0.03 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 2087518
Ion Ratio Lower Upper
112 100
114 32.1 26.0 39.0

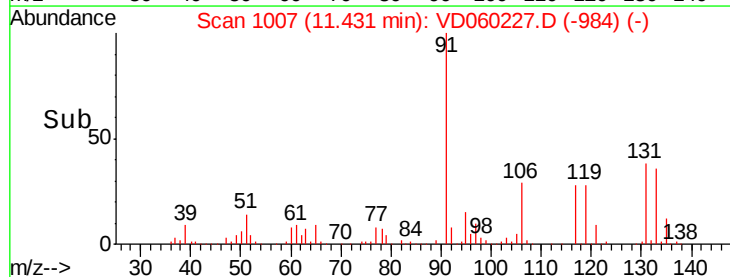
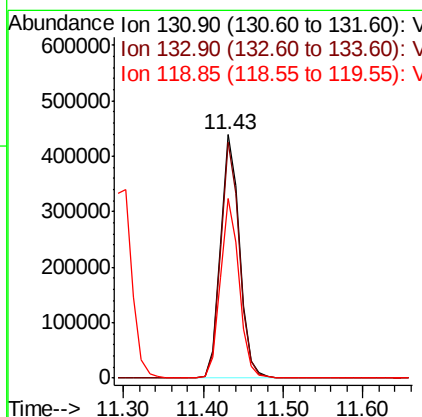
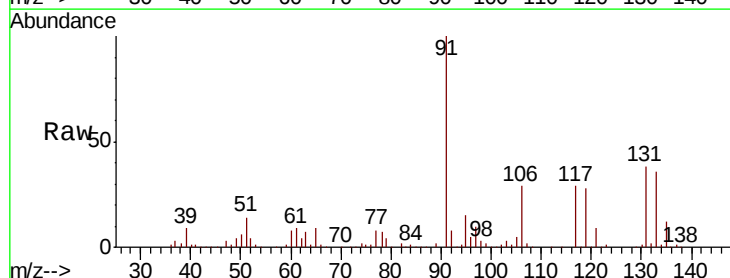
Manual Integrations
APPROVED

apatel
10/30/2018 12:37:54 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 56.041 ug/l
RT: 11.43 min Scan# 1007
Delta R.T. 0.03 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion:131 Resp: 745029
Ion Ratio Lower Upper
131 100
133 96.7 47.4 142.3
119 73.5 36.1 108.3





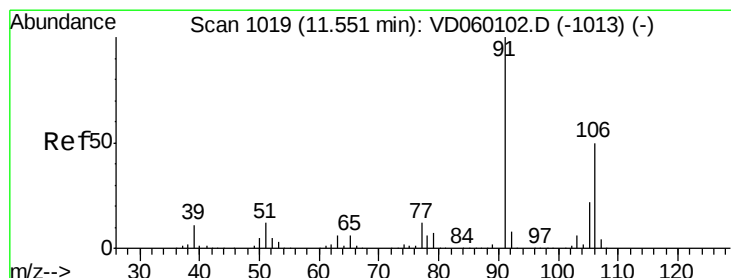
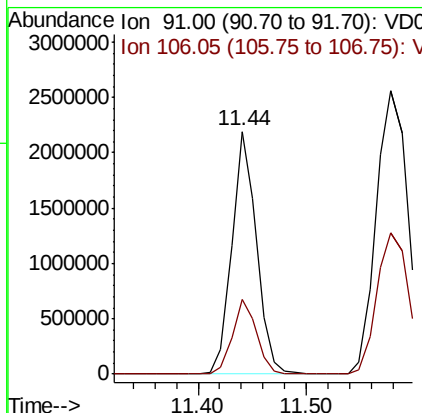
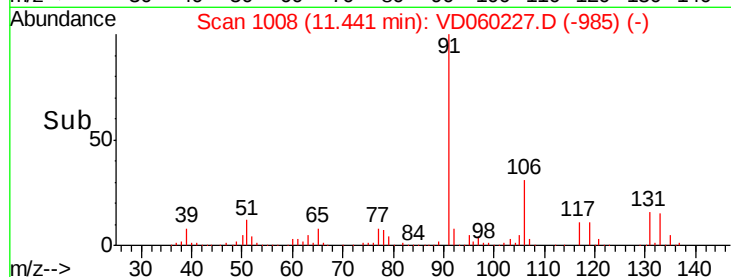
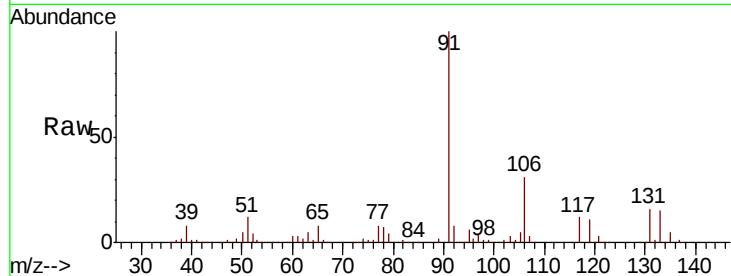
#67
Ethyl Benzene
Concen: 53.681 ug/l
RT: 11.44 min Scan# 1008
Delta R.T. 0.03 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 3465985
Ion Ratio Lower Upper
91 100
106 30.6 24.4 36.6

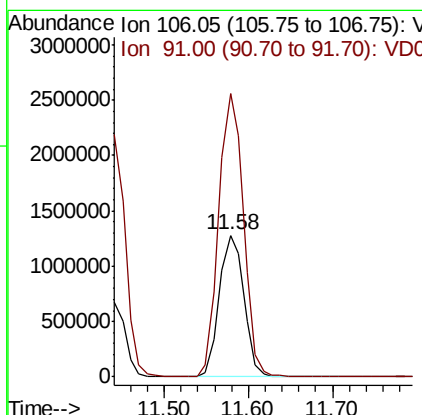
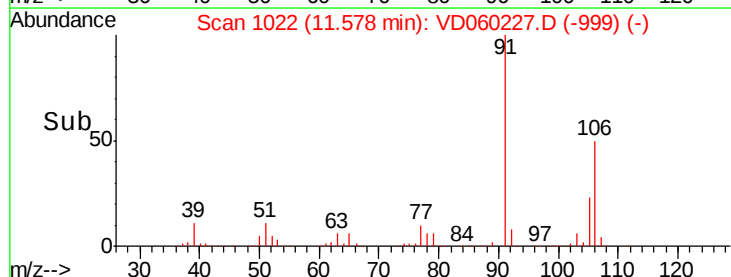
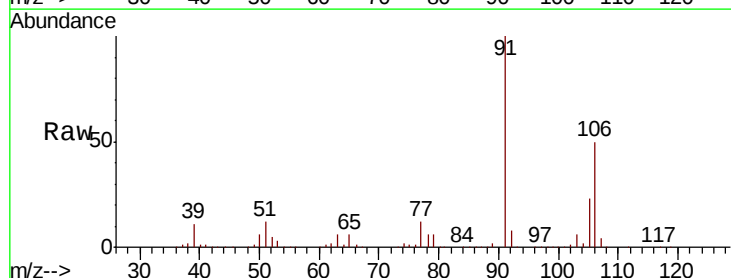
Manual Integrations
APPROVED

apatel
10/30/2018 12:37:54 PM



#68
m/p-Xylenes
Concen: 107.790 ug/l
RT: 11.58 min Scan# 1022
Delta R.T. 0.03 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion: 106 Resp: 2600368
Ion Ratio Lower Upper
106 100
91 199.7 160.0 240.0





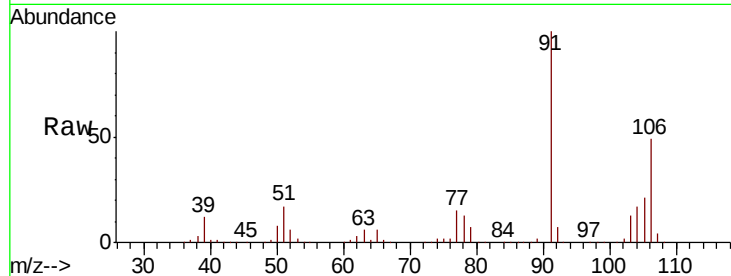
#69
o-Xylene
Concen: 52.879 ug/l
RT: 11.95 min Scan# 1060
Delta R.T. 0.03 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

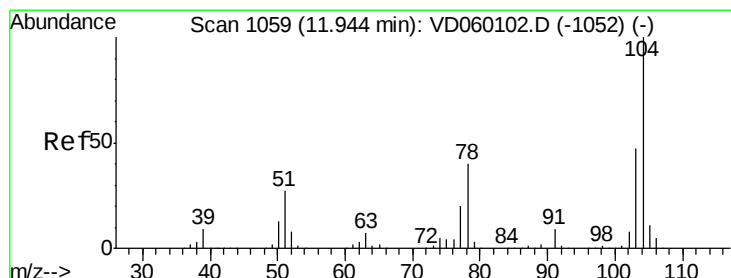
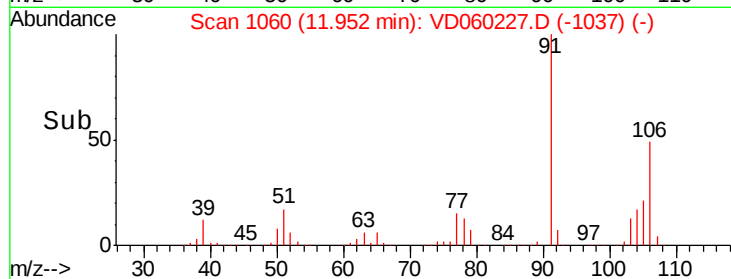
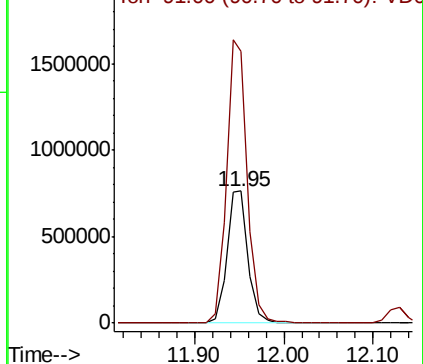
Tot Ion:106 Resp: 1261797
Ion Ratio Lower Upper
106 100
91 206.1 102.5 307.5

Manual Integrations
APPROVED

apatel
10/30/2018 12:37:54 PM

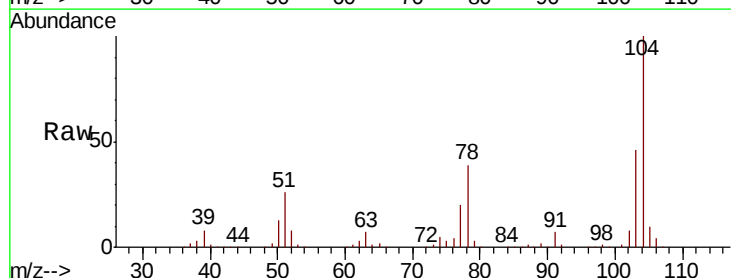


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

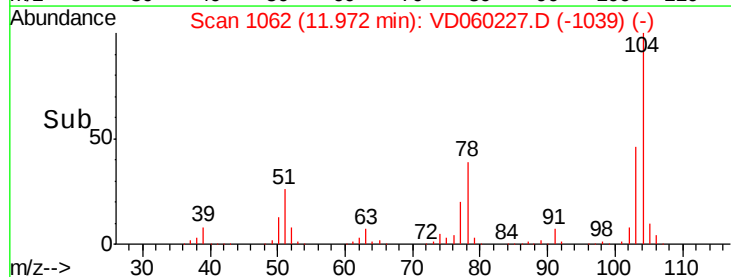
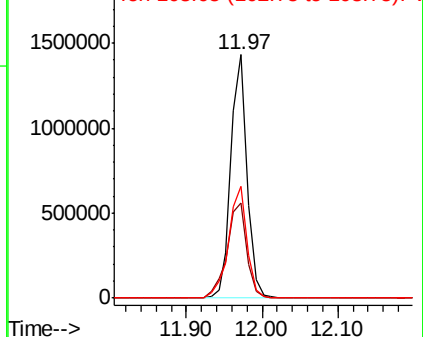


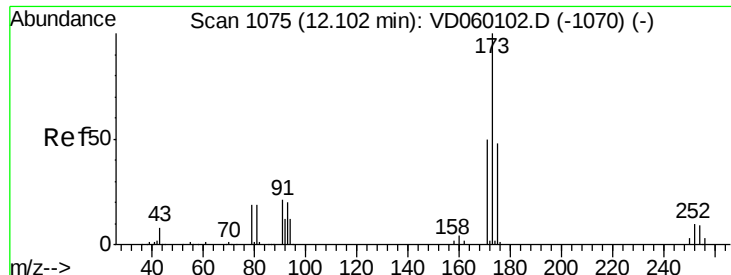
#70
Styrene
Concen: 52.762 ug/l
RT: 11.97 min Scan# 1062
Delta R.T. 0.03 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion:104 Resp: 2105463
Ion Ratio Lower Upper
104 100
78 39.1 32.2 48.4
103 46.0 37.4 56.0



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





#71

Bromoform

Concen: 57.737 ug/l

RT: 12.13 min Scan# 1078

Delta R.T. 0.03 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

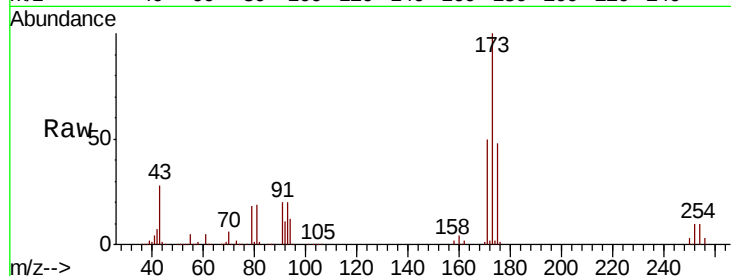
ClientSampleId :

VSTDCCC050

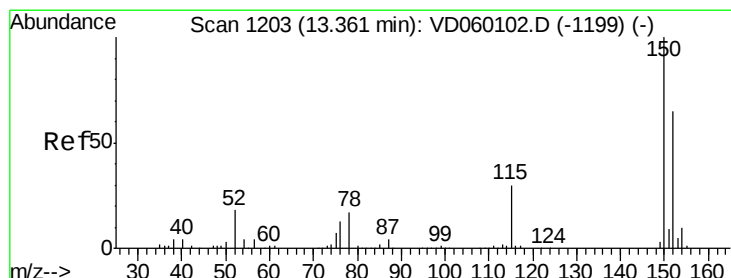
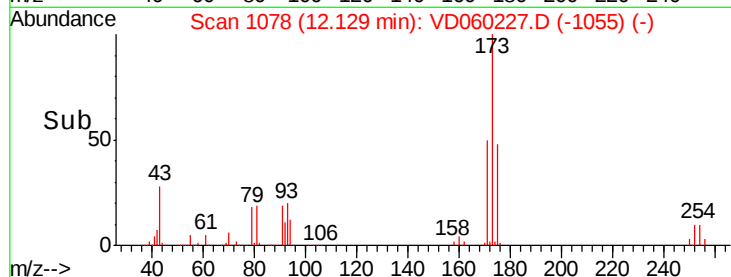
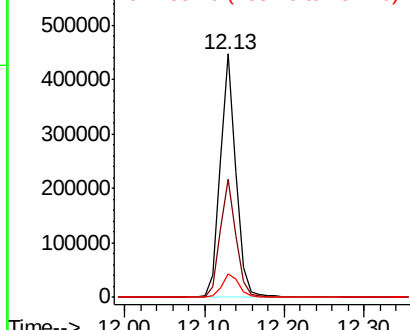
Tot Ion:	173	Resp:	621547
Ion Ratio	Lower	Upper	
173	100		
175	48.4	24.1	72.4
254	9.7	7.4	11.0

Manual Integrations
APPROVED

apatel
10/30/2018 12:37:54 PM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

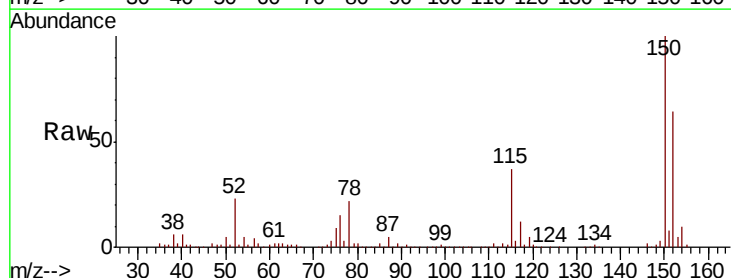
RT: 13.38 min Scan# 1205

Delta R.T. 0.02 min

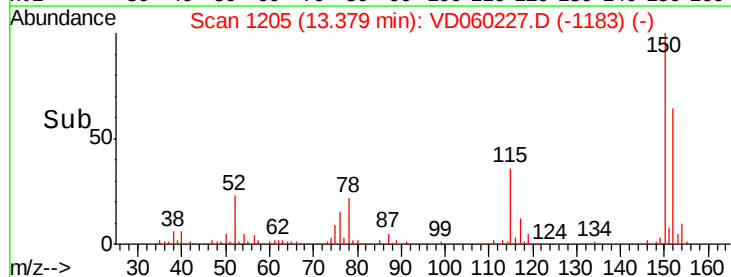
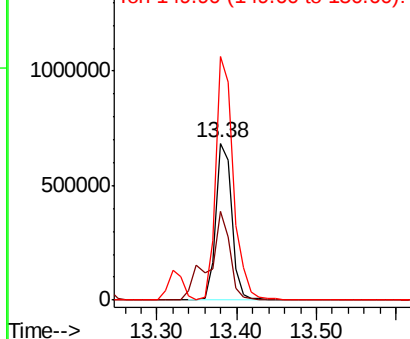
Lab File: VD060227.D

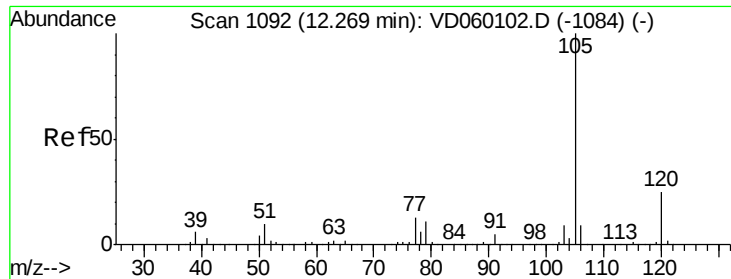
Acq: 29 Oct 2018 13:58

Tgt Ion:	152	Resp:	977192
Ion Ratio	Lower	Upper	
152	100		
115	56.7	27.1	81.2
150	155.1	0.0	311.8



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





#73

Isopropylbenzene

Concen: 53.801 ug/l

RT: 12.29 min Scan# 1094

Delta R.T. 0.02 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 3468427

Ion Ratio Lower Upper

105 100

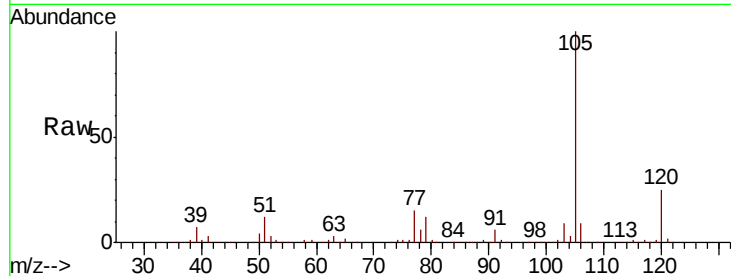
120 24.5 12.6 37.6

Manual Integrations

APPROVED

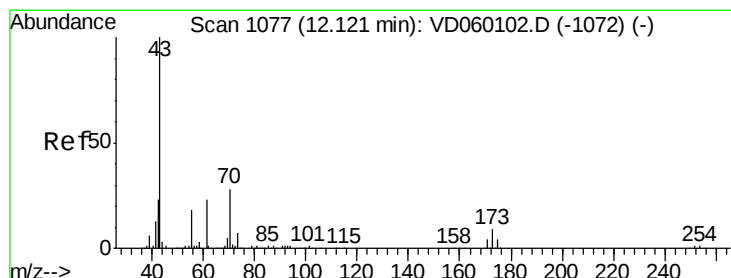
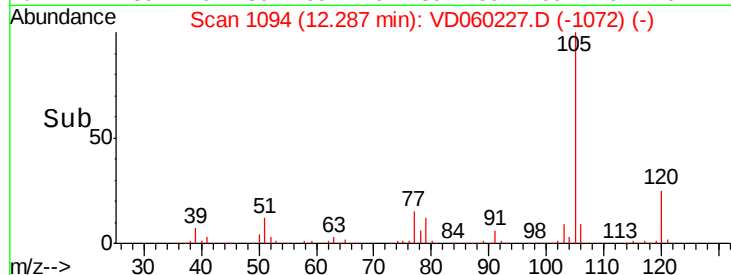
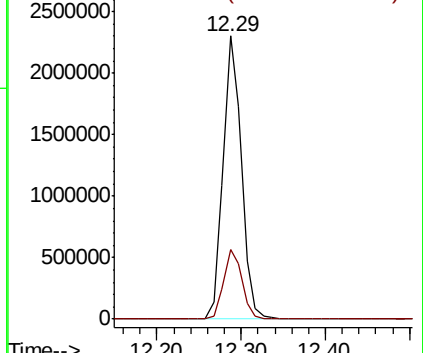
apatel

10/30/2018 12:37:54 PM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 55.037 ug/l

RT: 12.15 min Scan# 1080

Delta R.T. 0.03 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Tgt Ion: 43 Resp: 1299634

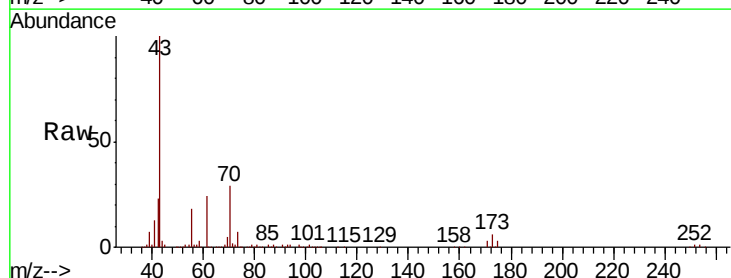
Ion Ratio Lower Upper

43 100

70 29.4 22.1 33.1

55 17.7 14.1 21.1

61 23.9 18.4 27.6

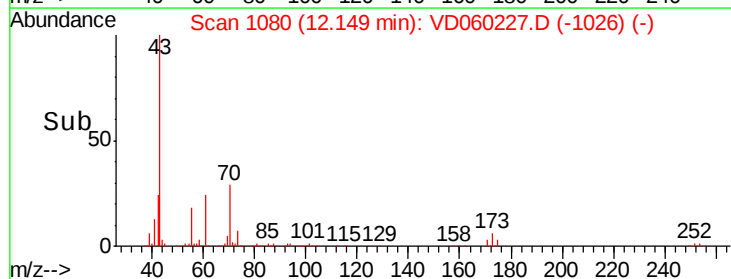
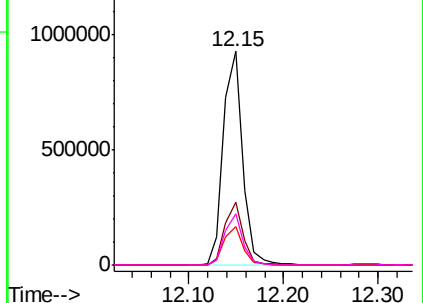


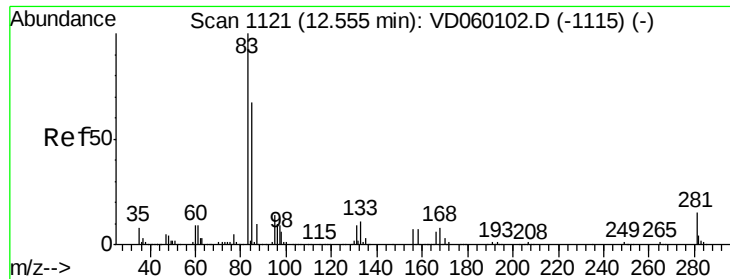
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 55.288 ug/l

RT: 12.57 min Scan# 1123

Delta R.T. 0.02 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 778138

Ion Ratio Lower Upper

83 100

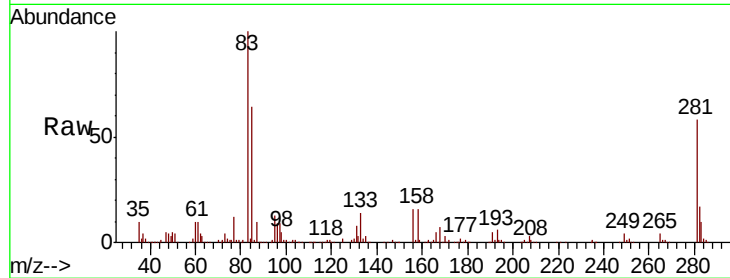
131 8.5 4.5 13.4

85 64.1 33.3 99.9

Manual Integrations
APPROVED

apatel

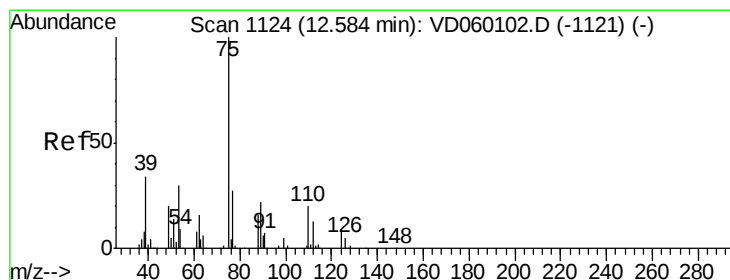
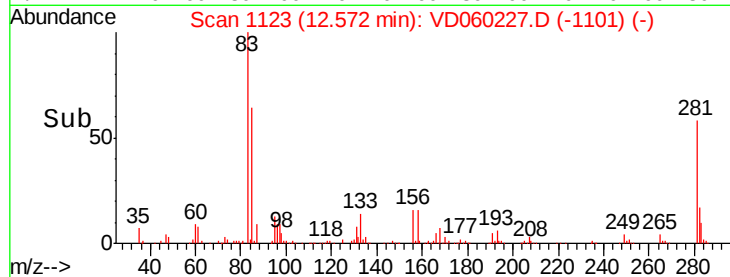
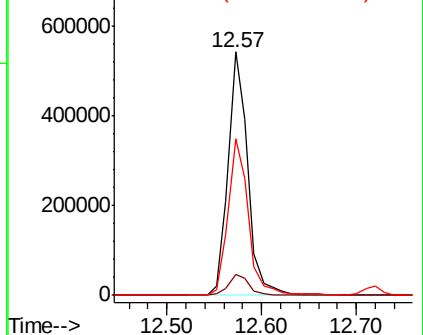
10/30/2018 12:37:54 PM



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 55.566 ug/l

RT: 12.61 min Scan# 1127

Delta R.T. 0.03 min

Lab File: VD060227.D

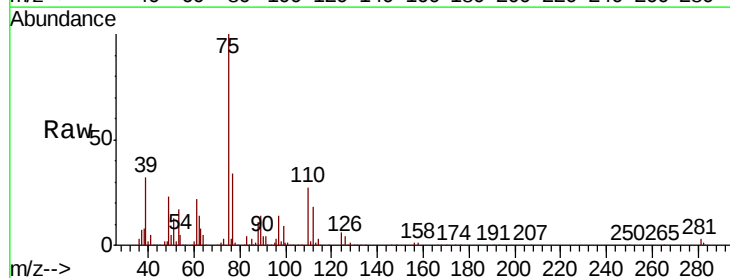
Acq: 29 Oct 2018 13:58

Tgt Ion: 75 Resp: 781969

Ion Ratio Lower Upper

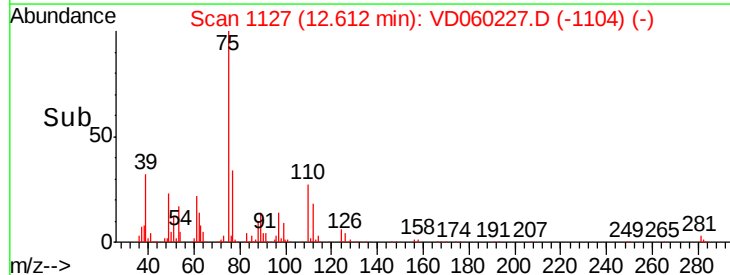
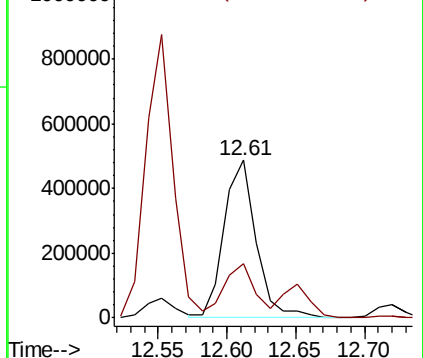
75 100

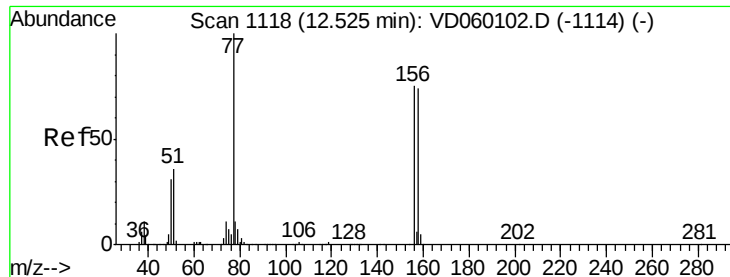
77 34.1 16.3 48.9



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 53.030 ug/l

RT: 12.55 min Scan# 1121

Delta R.T. 0.03 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

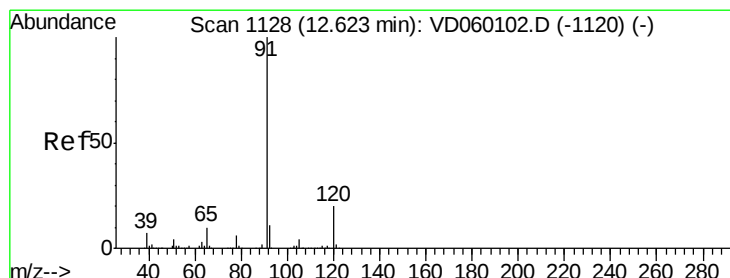
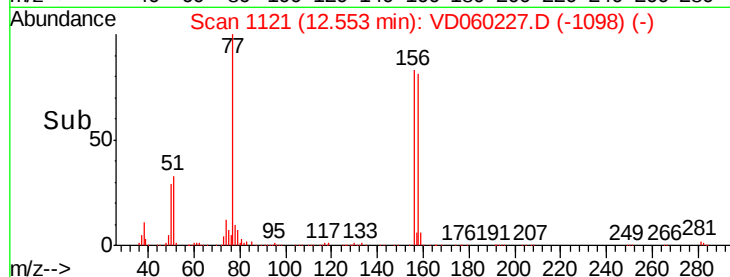
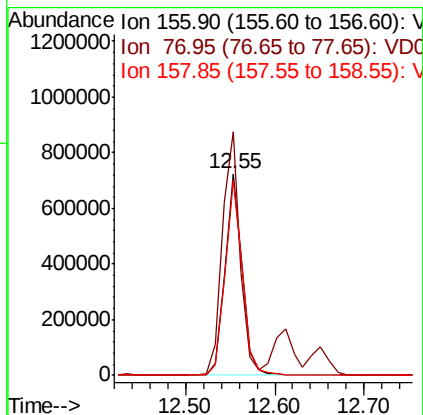
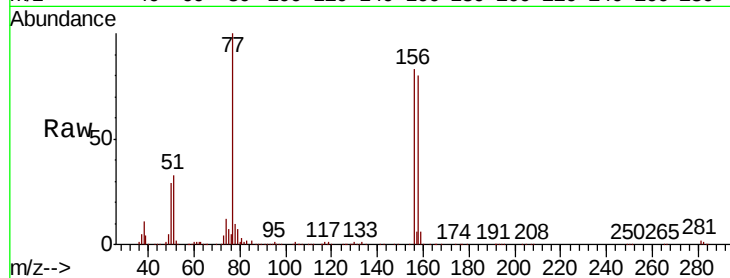
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		993450		
77	120.8	66.9	200.7		
158	97.0	49.1	147.4		

Manual Integrations
APPROVED

apatel
10/30/2018 12:37:54 PM



#78

n-propylbenzene

Concen: 52.170 ug/l

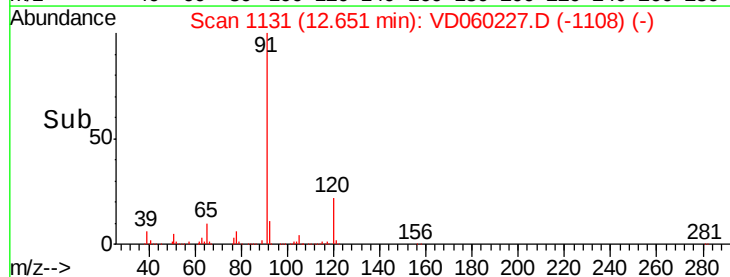
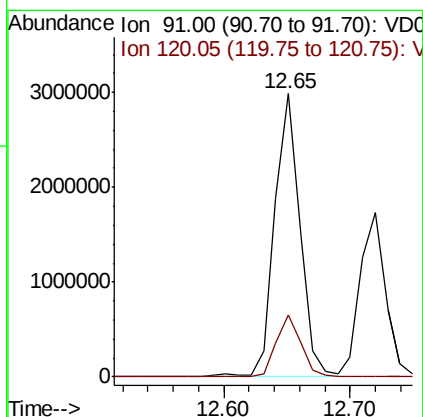
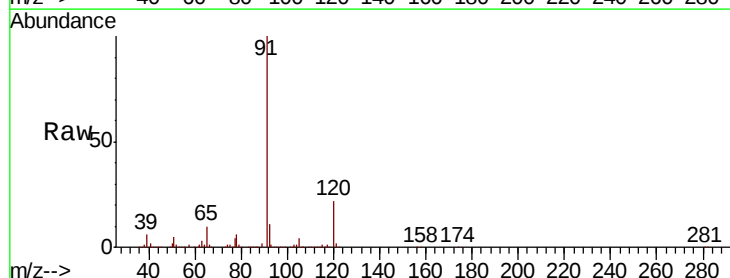
RT: 12.65 min Scan# 1131

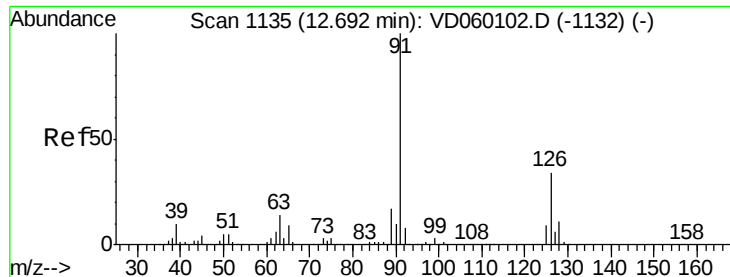
Delta R.T. 0.03 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		4176150		
120	21.9	10.0	30.0		





#79

2-Chlorotoluene

Concen: 53.456 ug/l

RT: 12.72 min Scan# 1138

Delta R.T. 0.03 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 2374931

Ion Ratio Lower Upper

91 100

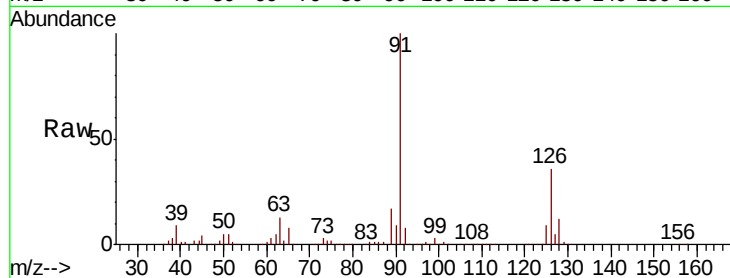
126 35.5 16.8 50.3

Manual Integrations

APPROVED

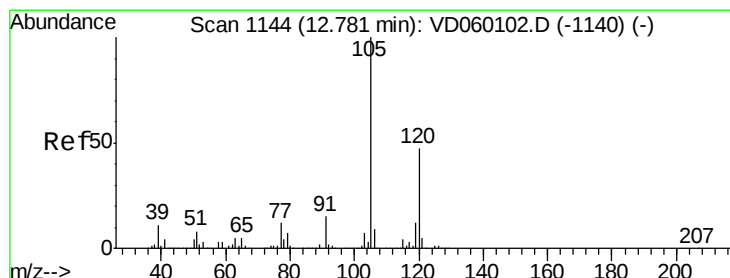
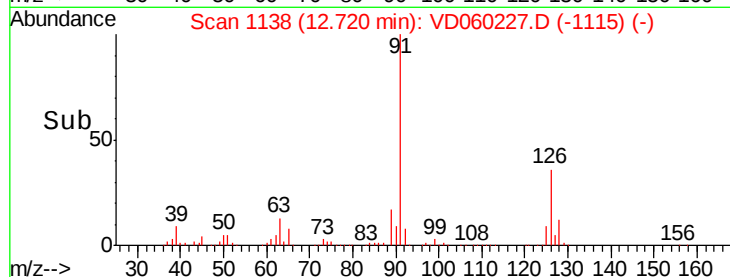
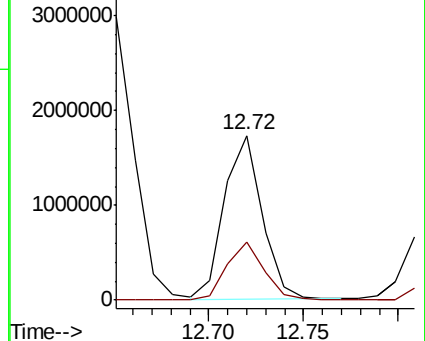
apatel

10/30/2018 12:37:54 PM



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 52.154 ug/l

RT: 12.81 min Scan# 1147

Delta R.T. 0.03 min

Lab File: VD060227.D

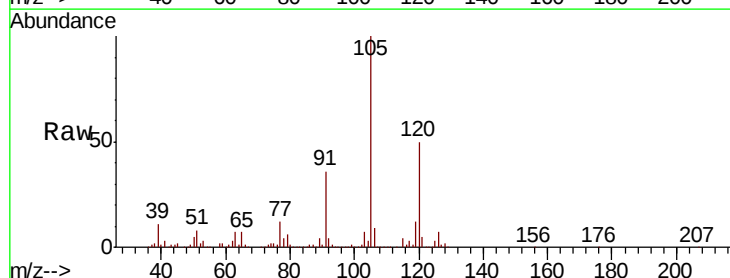
Acq: 29 Oct 2018 13:58

Tgt Ion:105 Resp: 2602212

Ion Ratio Lower Upper

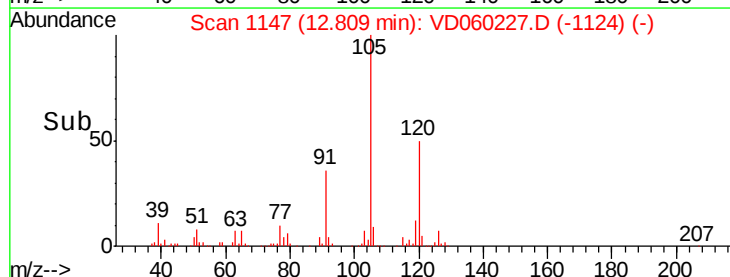
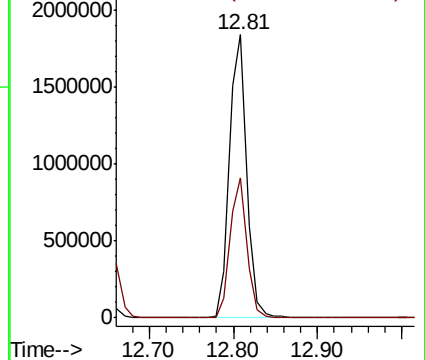
105 100

120 49.5 23.7 71.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





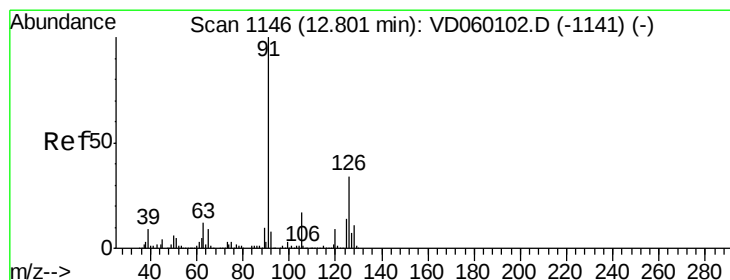
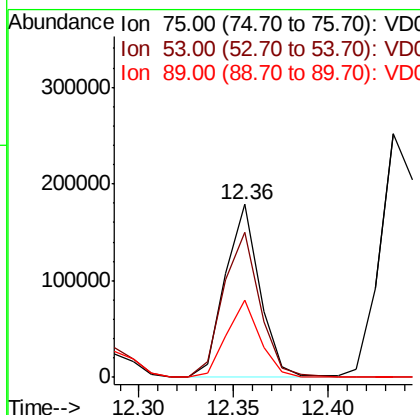
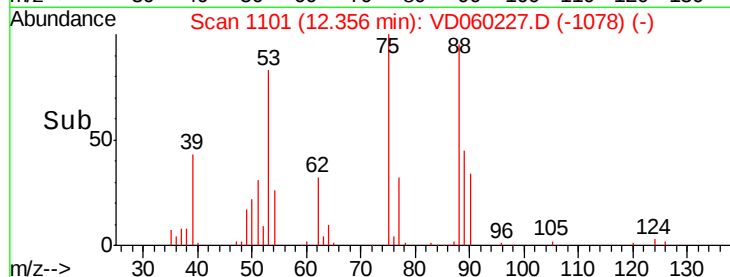
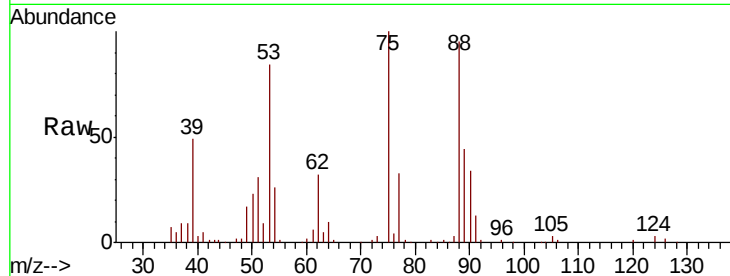
#81
trans-1,4-Dichloro-2-butene
Concen: 56.432 ug/l
RT: 12.36 min Scan# 1101
Delta R.T. 0.03 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	83.9	73.0	109.6
89	44.4	32.0	48.0

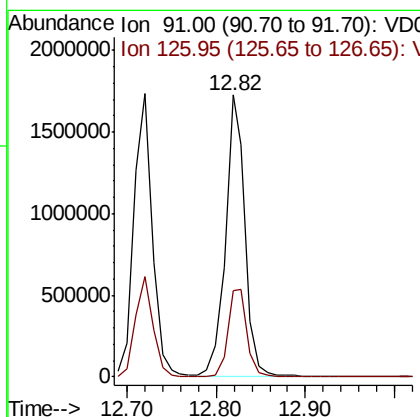
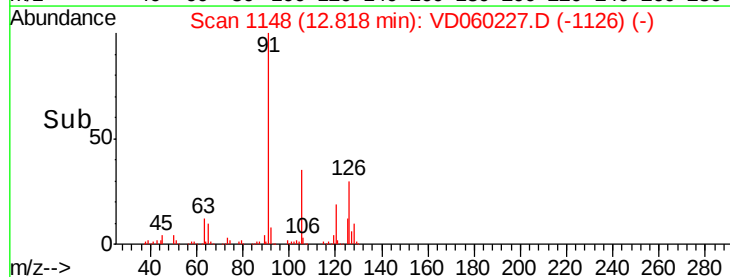
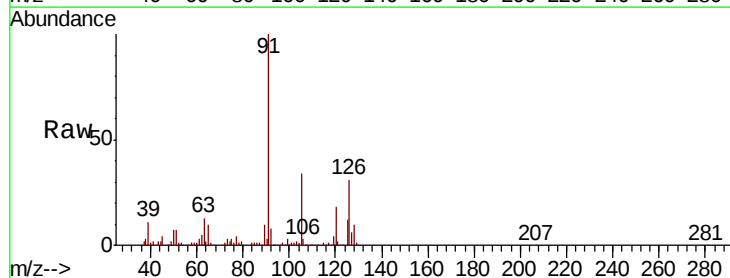
Manual Integrations
APPROVED

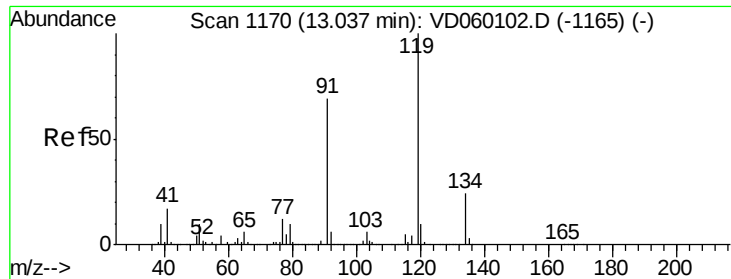
apatel
10/30/2018 12:37:54 PM



#82
4-Chlorotoluene
Concen: 52.657 ug/l
RT: 12.82 min Scan# 1148
Delta R.T. 0.02 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.6	17.1	51.2





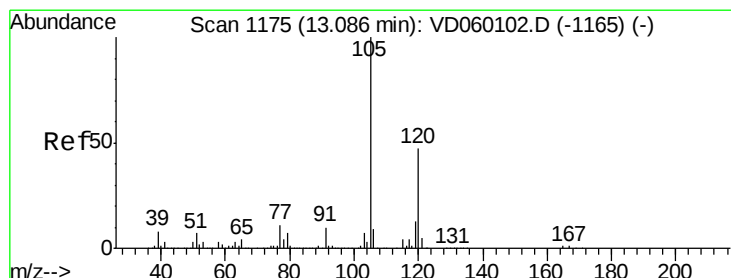
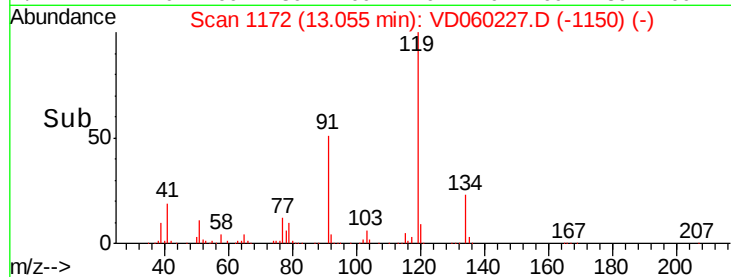
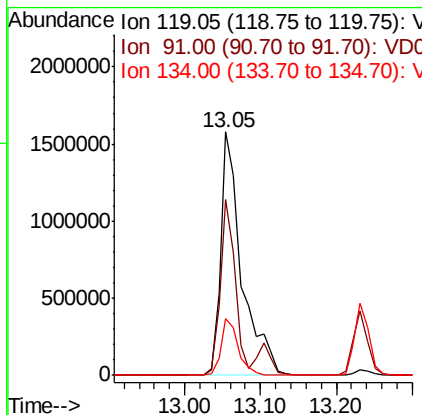
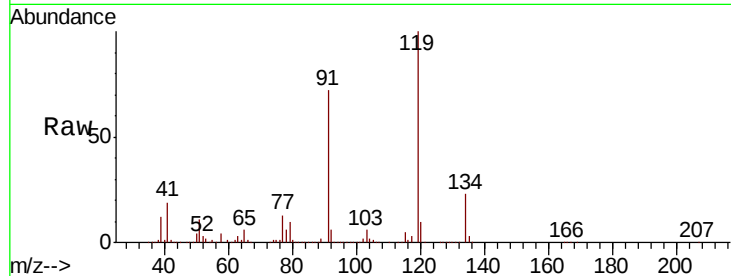
#83
 tert-Butylbenzene
 Concen: 53.740 ug/l
 RT: 13.05 min Scan# 1172
 Delta R.T. 0.02 min
 Lab File: VD060227.D
 Acq: 29 Oct 2018 13:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:119 Resp: 3076932
 Ion Ratio Lower Upper
 119 100
 91 72.1 34.8 104.4
 134 23.4 11.8 35.4

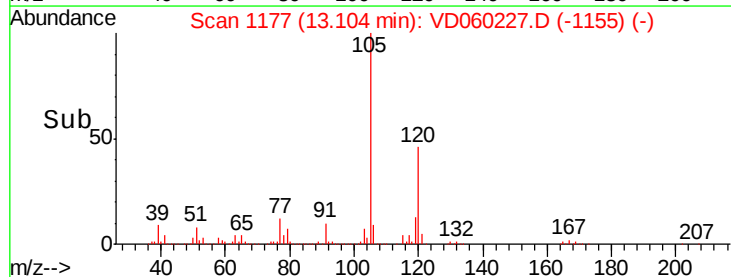
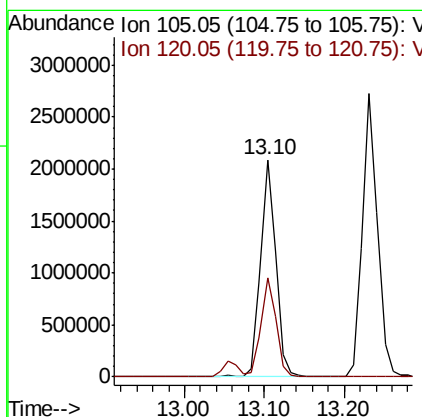
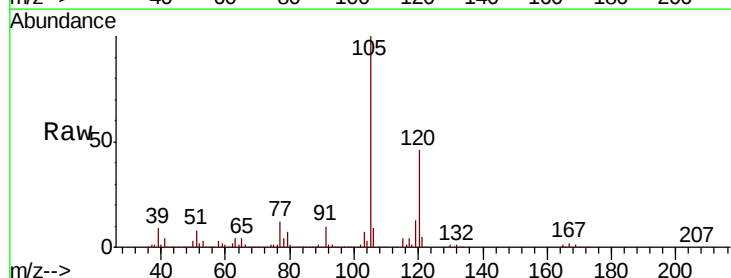
Manual Integrations
 APPROVED

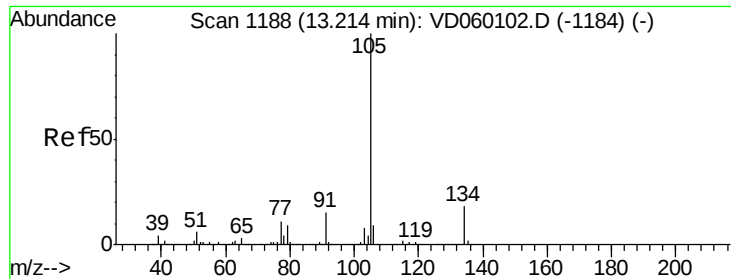
apatel
 10/30/2018 12:37:54 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 51.416 ug/l
 RT: 13.10 min Scan# 1177
 Delta R.T. 0.02 min
 Lab File: VD060227.D
 Acq: 29 Oct 2018 13:58

Tgt Ion:105 Resp: 2703763
 Ion Ratio Lower Upper
 105 100
 120 45.7 23.4 70.0





#85

sec-Butylbenzene

Concen: 52.648 ug/l

RT: 13.23 min Scan# 1190

Delta R.T. 0.02 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 3564163

Ion Ratio Lower Upper

105 100

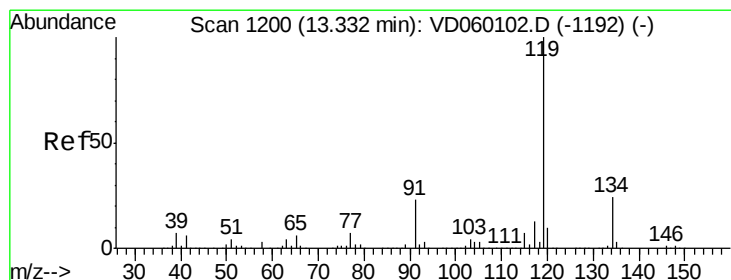
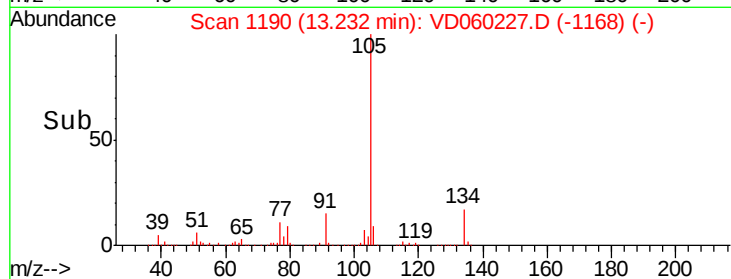
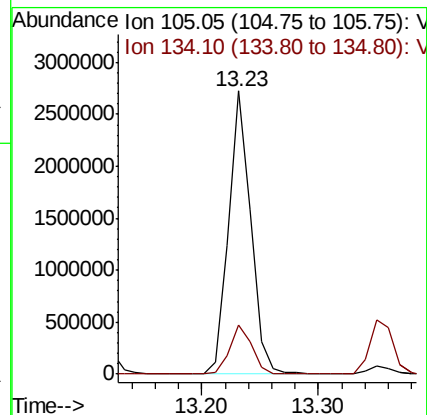
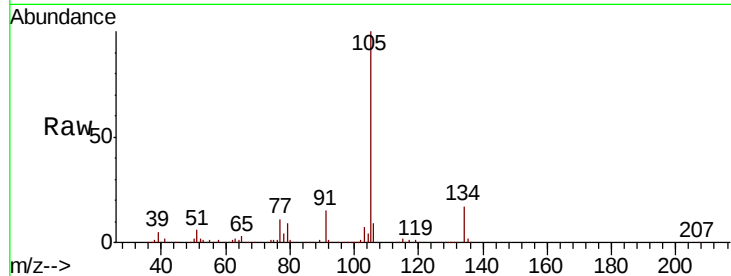
134 17.2 8.8 26.2

Manual Integrations

APPROVED

apatel

10/30/2018 12:37:54 PM



#86

p-Isopropyltoluene

Concen: 53.202 ug/l

RT: 13.35 min Scan# 1202

Delta R.T. 0.02 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

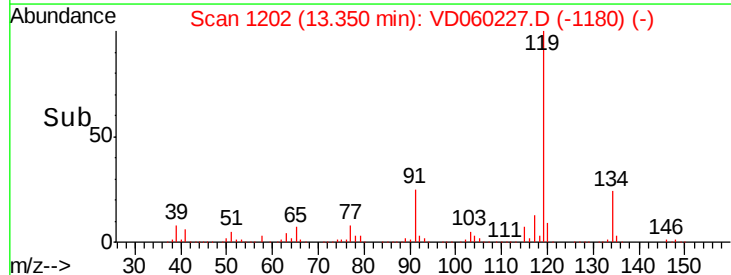
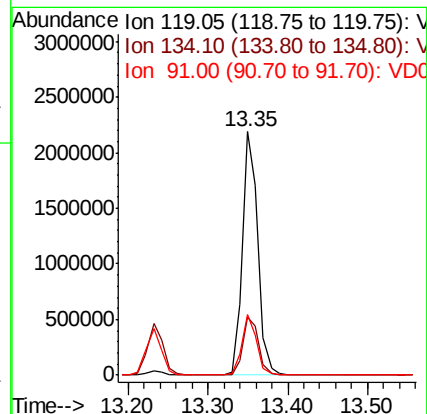
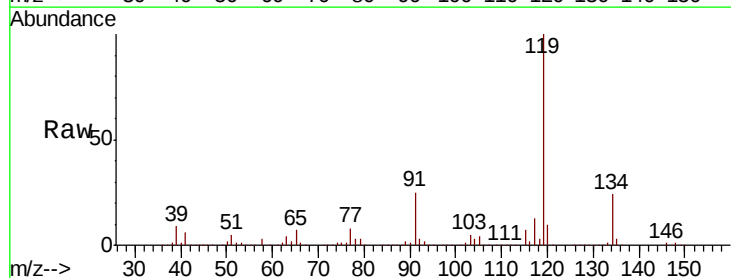
Tgt Ion:119 Resp: 2954139

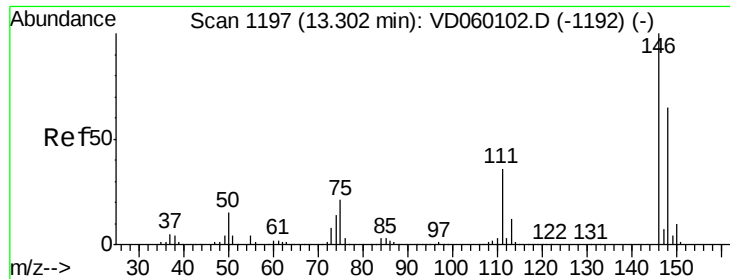
Ion Ratio Lower Upper

119 100

134 24.1 12.3 36.8

91 24.8 11.8 35.4





#87

1,3-Dichlorobenzene

Concen: 52.580 ug/l

RT: 13.32 min Scan# 1199

Delta R.T. 0.02 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:146 Resp: 1716173

Ion Ratio Lower Upper

146 100

111 38.5 18.1 54.3

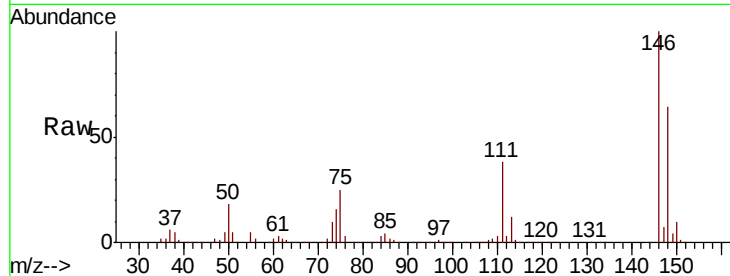
148 64.2 32.3 96.9

Manual Integrations

APPROVED

apatel

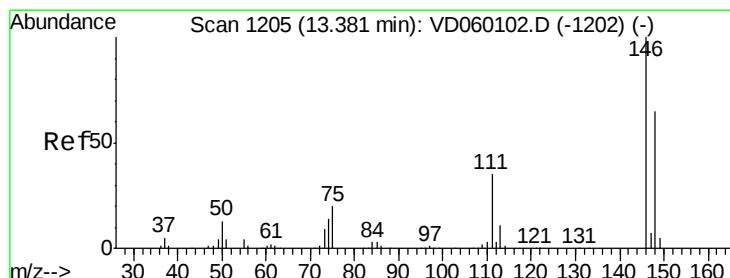
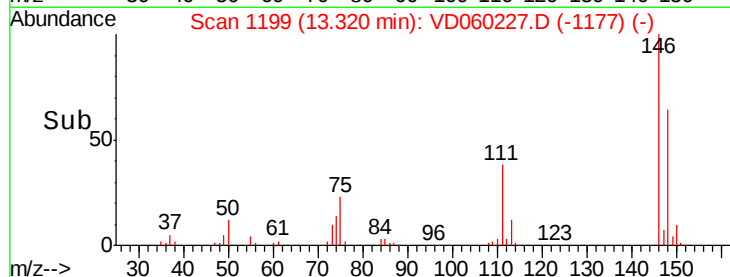
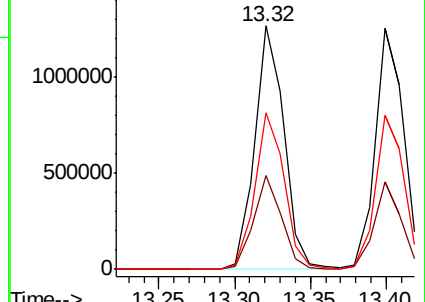
10/30/2018 12:37:54 PM



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 50.984 ug/l

RT: 13.40 min Scan# 1207

Delta R.T. 0.02 min

Lab File: VD060227.D

Acq: 29 Oct 2018 13:58

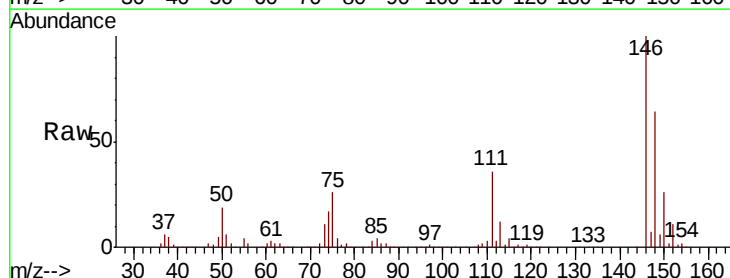
Tgt Ion:146 Resp: 1671463

Ion Ratio Lower Upper

146 100

111 36.3 17.8 53.3

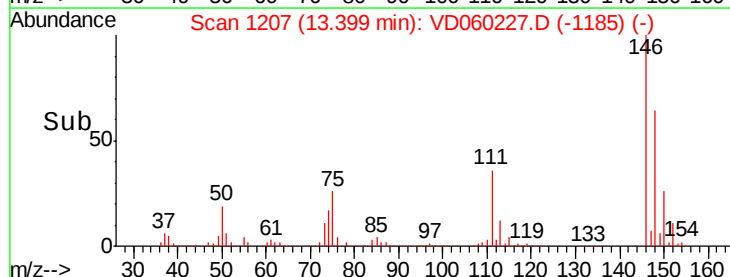
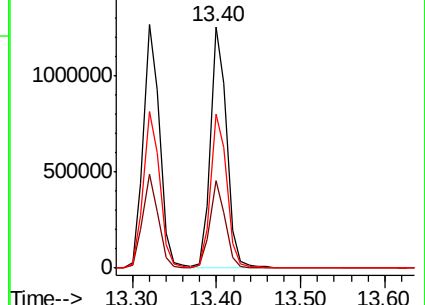
148 63.5 32.4 97.2

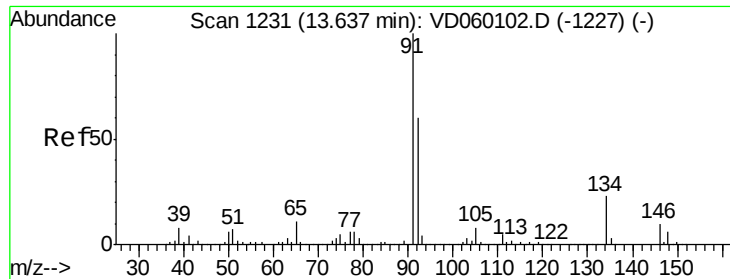


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





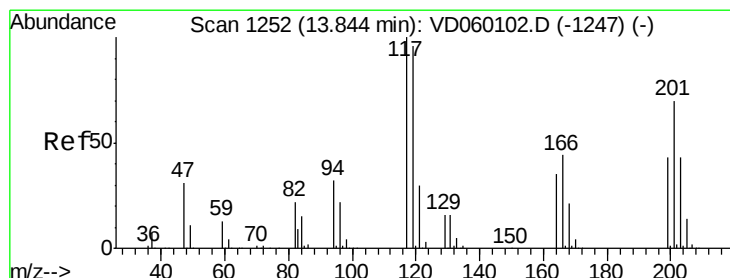
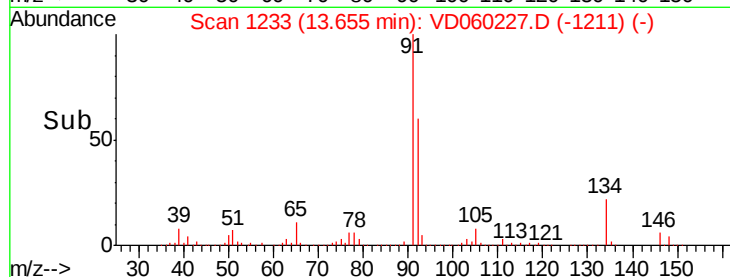
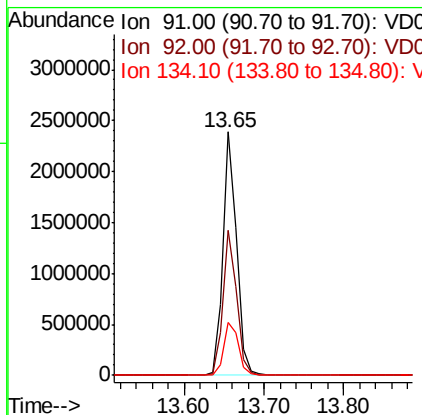
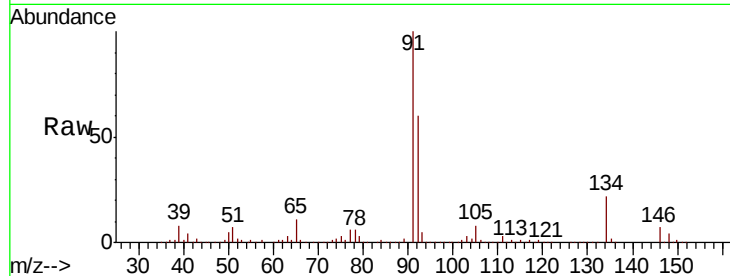
#89
n-Butylbenzene
Concen: 53.759 ug/l
RT: 13.65 min Scan# 1233
Delta R.T. 0.02 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 2912669
Ion Ratio Lower Upper
91 100
92 59.6 30.1 90.3
134 21.8 11.6 34.7

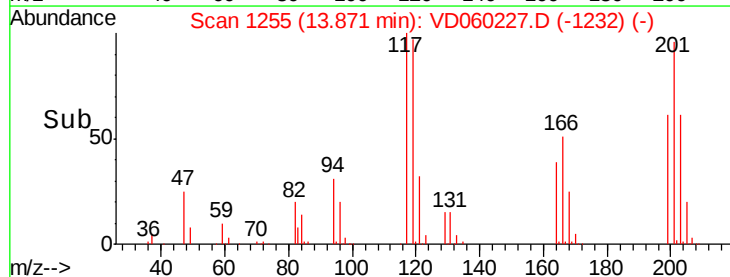
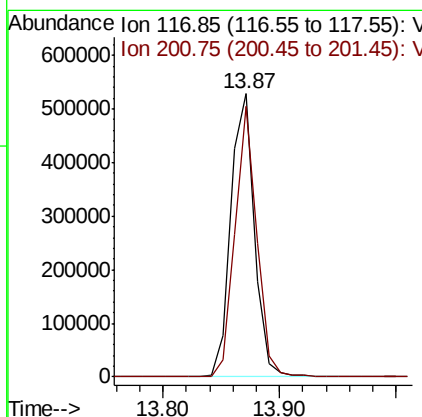
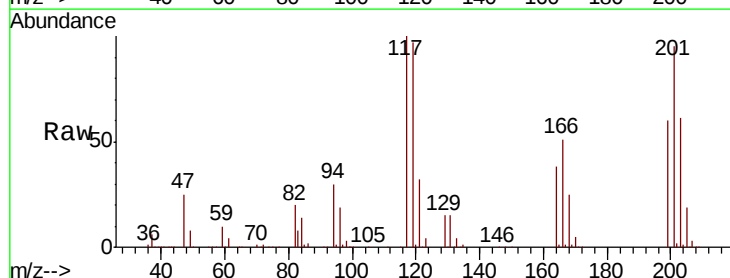
Manual Integrations
APPROVED

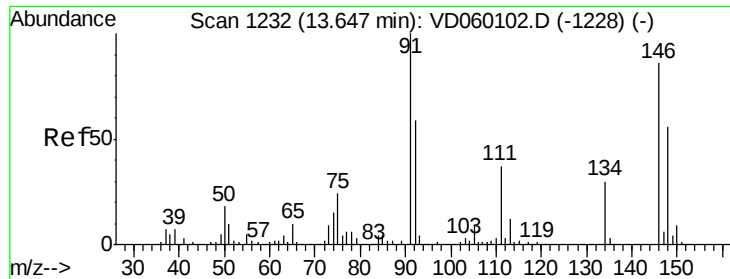
apatel
10/30/2018 12:37:54 PM



#90
Hexachloroethane
Concen: 57.782 ug/l
RT: 13.87 min Scan# 1255
Delta R.T. 0.03 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion: 117 Resp: 742540
Ion Ratio Lower Upper
117 100
201 95.4 34.8 104.5





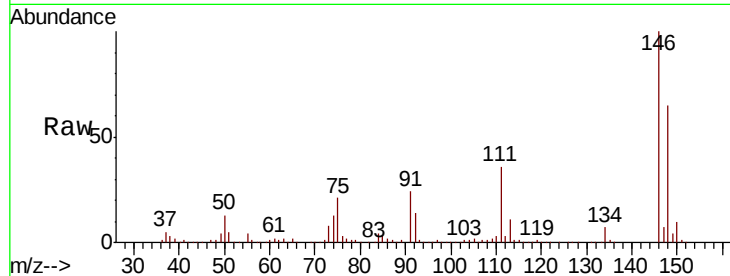
#91
 1,2-Dichlorobenzene
 Concen: 53.787 ug/l
 RT: 13.67 min Scan# 1235
 Delta R.T. 0.03 min
 Lab File: VD060227.D
 Acq: 29 Oct 2018 13:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.9	21.4	64.3
148	65.1	32.2	96.6

Manual Integrations
 APPROVED

apatel
 10/30/2018 12:37:54 PM

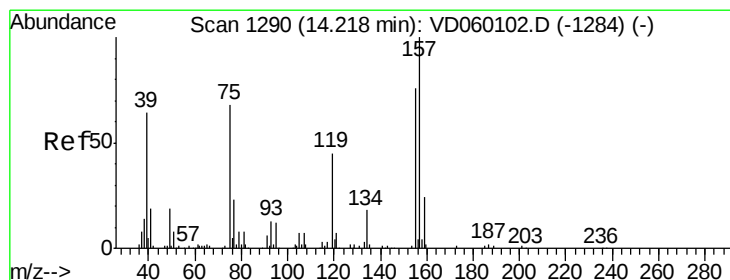
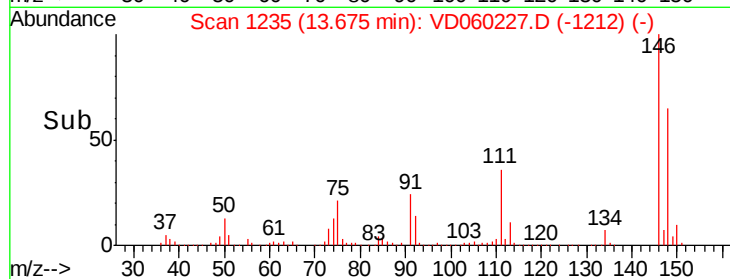
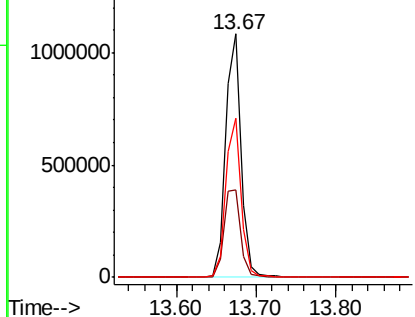


Abundance

Ion 145.95 (145.65 to 146.65): V

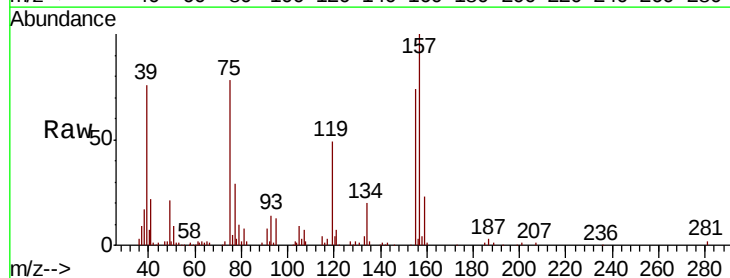
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 58.726 ug/l
 RT: 14.24 min Scan# 1292
 Delta R.T. 0.02 min
 Lab File: VD060227.D
 Acq: 29 Oct 2018 13:58

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.2	55.9	167.7
157	127.9	73.3	219.8

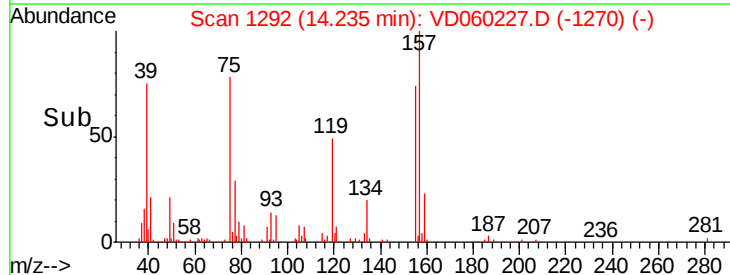
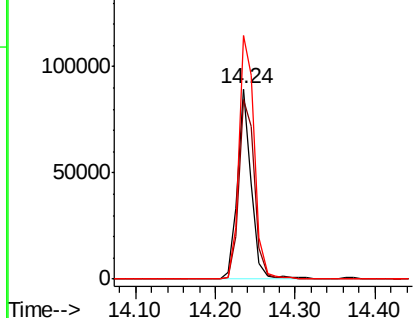


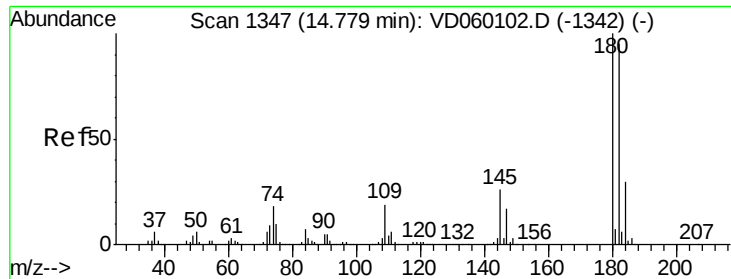
Abundance

Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V





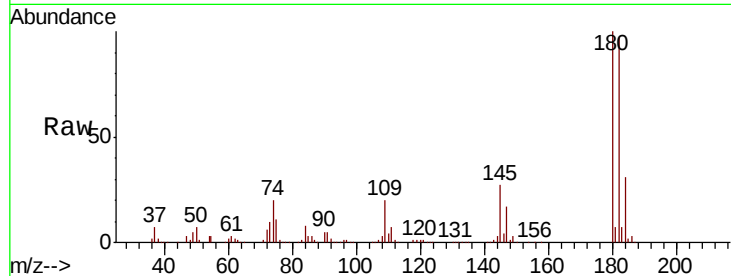
#93
 1,2,4-Trichlorobenzene
 Concen: 52.155 ug/l
 RT: 14.80 min Scan# 1349
 Delta R.T. 0.02 min
 Lab File: VD060227.D
 Acq: 29 Oct 2018 13:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

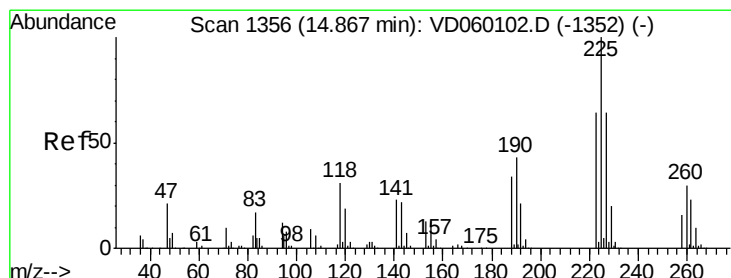
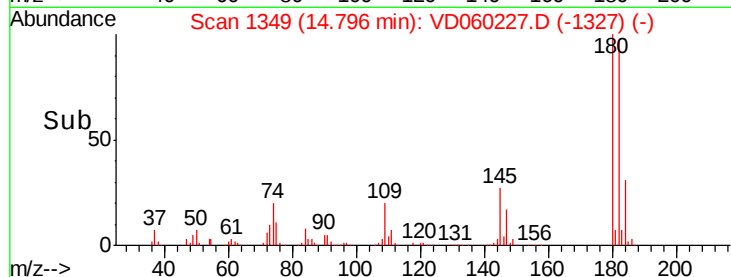
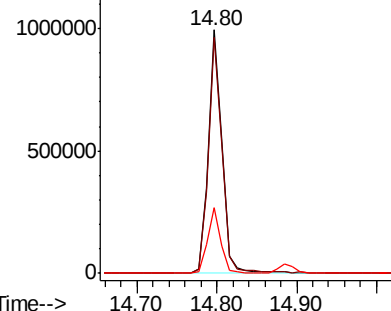
Tot Ion	Ratio	Lower	Upper
180	100		
182	97.1	47.3	141.8
145	27.2	13.0	38.9

Manual Integrations
 APPROVED

apatel
 10/30/2018 12:37:54 PM

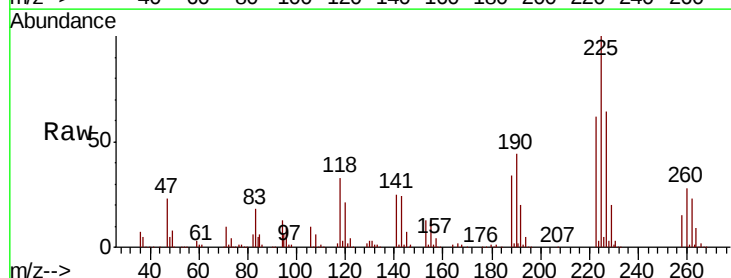


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

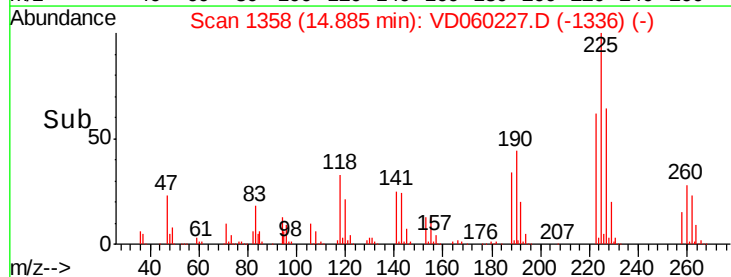
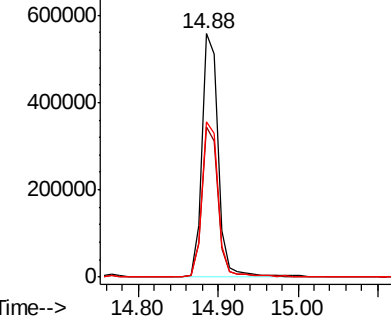


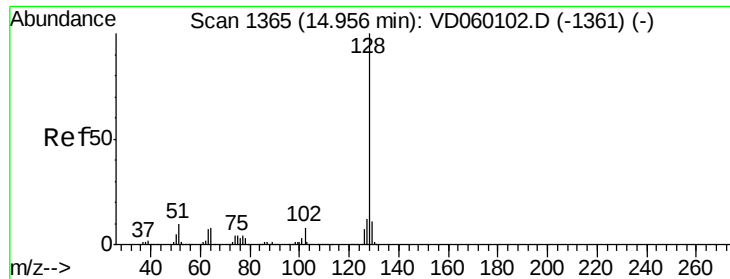
#94
 Hexachlorobutadiene
 Concen: 52.458 ug/l
 RT: 14.88 min Scan# 1358
 Delta R.T. 0.02 min
 Lab File: VD060227.D
 Acq: 29 Oct 2018 13:58

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.9	31.8	95.4
227	63.6	32.0	96.0



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





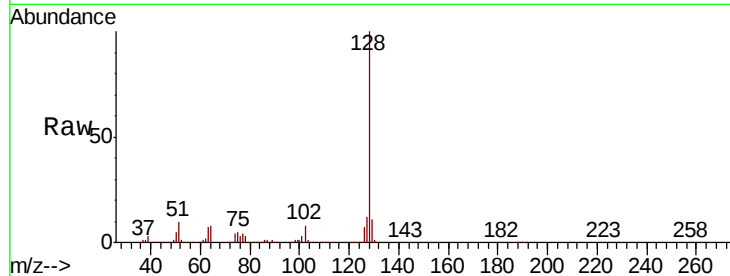
#95
Naphthalene
Concen: 53.103 ug/l
RT: 14.97 min Scan# 1367
Delta R.T. 0.02 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

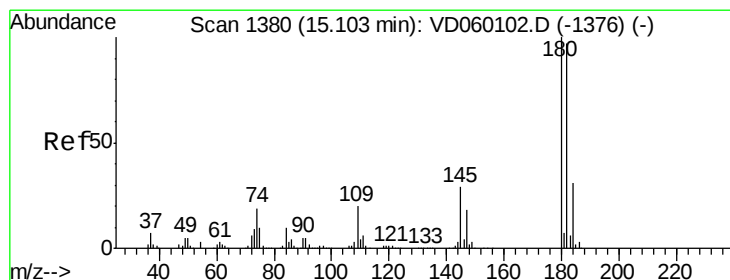
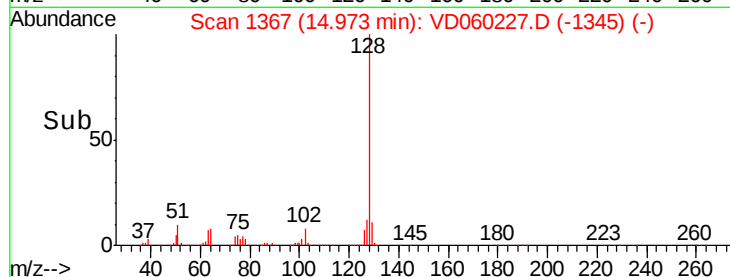
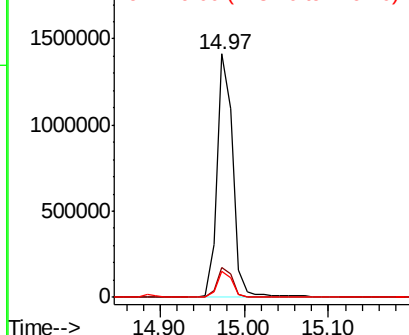
Tot Ion:128 Resp: 1833570
Ion Ratio Lower Upper
128 100
127 12.3 9.9 14.9
129 10.8 8.8 13.2

Manual Integrations
APPROVED

apatel
10/30/2018 12:37:54 PM

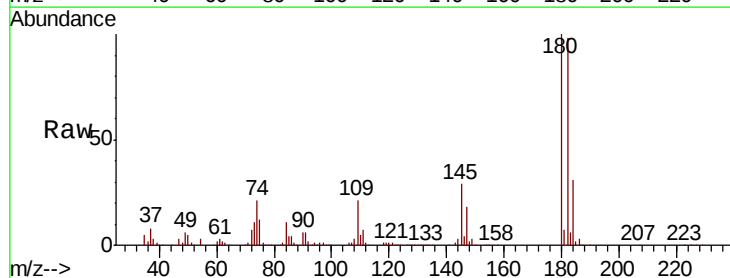


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 50.422 ug/l
RT: 15.12 min Scan# 1382
Delta R.T. 0.02 min
Lab File: VD060227.D
Acq: 29 Oct 2018 13:58

Tgt Ion:180 Resp: 1021741
Ion Ratio Lower Upper
180 100
182 97.9 48.4 145.0
145 29.1 14.5 43.6



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

