

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU010319\
 Data File : VU028996.D
 Acq On : 03 Jan 2019 14:42
 Operator : MD/SY
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 1/4/2019 9:51:04 AM

Quant Time: Jan 04 00:56:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 04 00:41:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	129294	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	211108	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	211745	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	114778	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	232733	145.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	291.22%	
35) Dibromofluoromethane	4.88	113	202140	147.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	295.42%	
50) Toluene-d8	7.56	98	817824	151.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	302.76%	
62) 4-Bromofluorobenzene	10.31	95	319134	164.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	328.74%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.20	85	186692	145.600	ug/l	100
3) Chloromethane	1.32	50	303534	132.280	ug/l	100
4) Vinyl Chloride	1.40	62	277295	146.751	ug/l	98
5) Bromomethane	1.60	94	137682	121.703	ug/l	99
6) Chloroethane	1.67	64	166536	147.966	ug/l	99
7) Trichlorofluoromethane	1.87	101	298121	144.790	ug/l	100
8) Diethyl Ether	2.10	74	145827	147.420	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.27	101	198816	144.314	ug/l	98
10) Methyl Iodide	2.40	142	207327	160.051	ug/l	99
11) Tert butyl alcohol	2.85	59	297175	731.470	ug/l	99
12) 1,1-Dichloroethene	2.27	96	203926	152.075	ug/l	98
13) Acrolein	2.19	56	218303	715.592	ug/l	99
14) Allyl chloride	2.58	41	350981	142.651	ug/l	99
15) Acrylonitrile	2.94	53	738993	741.423	ug/l	99
16) Acetone	2.32	43	619461	615.226	ug/l	100
17) Carbon Disulfide	2.47	76	662148	132.692	ug/l	100
18) Methyl Acetate	2.61	43	336144	143.579	ug/l	98
19) Methyl tert-butyl Ether	3.00	73	690858	146.540	ug/l	98
20) Methylene Chloride	2.69	84	243999	142.729	ug/l	98
21) trans-1,2-Dichloroethene	2.97	96	222047	142.524	ug/l	98
22) Diisopropyl ether	3.57	45	716266	147.297	ug/l	97
23) Vinyl Acetate	3.52	43	3041585	765.116	ug/l	99
24) 1,1-Dichloroethane	3.44	63	414537	147.673	ug/l	100
25) 2-Butanone	4.26	43	993151	730.288	ug/l	99
26) 2,2-Dichloropropane	4.22	77	325867	143.666	ug/l	99
27) cis-1,2-Dichloroethene	4.22	96	258101	151.470	ug/l	98
28) Bromochloromethane	4.55	49	167394	139.262	ug/l	99
29) Tetrahydrofuran	4.64	42	612466	742.539	ug/l	99
30) Chloroform	4.67	83	392365	146.748	ug/l	98
31) Cyclohexane	4.99	56	389721	125.451	ug/l	98
32) 1,1,1-Trichloroethane	4.91	97	322282	145.878	ug/l	99
36) 1,1-Dichloropropene	5.13	75	311576	147.658	ug/l	100
37) Ethyl Acetate	4.38	43	350836	145.465	ug/l	100
38) Carbon Tetrachloride	5.13	117	270773	153.853	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU010319\
 Data File : VU028996.D
 Acq On : 03 Jan 2019 14:42
 Operator : MD/SY
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 1/4/2019 9:51:04 AM

Quant Time: Jan 04 00:56:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 04 00:41:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	392181	151.181	ug/l	99
40) Benzene	5.39	78	967322	146.964	ug/l	99
41) Methacrylonitrile	4.54	41	191478	154.440	ug/l	99
42) 1,2-Dichloroethane	5.40	62	299081	151.216	ug/l	100
43) Isopropyl Acetate	5.55	43	561175	157.943	ug/l	99
44) Trichloroethene	6.18	130	243942	149.580	ug/l	96
45) 1,2-Dichloropropane	6.43	63	260699	149.984	ug/l	100
46) Dibromomethane	6.56	93	167548	150.788	ug/l	100
47) Bromodichloromethane	6.76	83	314931	153.939	ug/l	99
48) Methyl methacrylate	6.62	41	284335	164.349	ug/l	98
49) 1,4-Dioxane	6.61	88	131794	3214.501	ug/l	99
51) 4-Methyl-2-Pentanone	7.46	43	1943943	803.931	ug/l	99
52) Toluene	7.64	92	613692	153.156	ug/l	98
53) t-1,3-Dichloropropene	7.88	75	390226	158.785	ug/l	100
54) cis-1,3-Dichloropropene	7.27	75	411514	154.964	ug/l	100
55) 1,1,2-Trichloroethane	8.07	97	248837	155.015	ug/l	98
56) Ethyl methacrylate	8.02	69	420465	170.018	ug/l	100
57) 1,3-Dichloropropane	8.24	76	429761	156.461	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.13	63	910009	836.708	ug/l	100
59) 2-Hexanone	8.36	43	1547535	815.316	ug/l	99
60) Dibromochloromethane	8.48	129	261529	164.448	ug/l	99
61) 1,2-Dibromoethane	8.58	107	273898	157.324	ug/l	99
64) Tetrachloroethene	8.22	164	218403	143.186	ug/l	96
65) Chlorobenzene	9.12	112	693831	146.182	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	234786	152.429	ug/l	99
67) Ethyl Benzene	9.25	91	1204278	151.973	ug/l	100
68) m/p-Xylenes	9.37	106	935293	303.768	ug/l	99
69) o-Xylene	9.78	106	460305	155.157	ug/l	100
70) Styrene	9.79	104	791054	162.654	ug/l	99
71) Bromoform	9.96	173	228490	166.600	ug/l #	98
73) Isopropylbenzene	10.16	105	1204344	141.761	ug/l	99
74) N-amyl acetate	10.01	43	552310	150.869	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	477594	140.267	ug/l	100
76) 1,2,3-Trichloropropane	10.49	75	393854m	135.204	ug/l	
77) Bromobenzene	10.45	156	318387	143.810	ug/l	99
78) n-propylbenzene	10.59	91	1472999	147.125	ug/l	100
79) 2-Chlorotoluene	10.66	91	850748	140.079	ug/l	98
80) 1,3,5-Trimethylbenzene	10.77	105	1037648	146.261	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	164204m	118.260	ug/l	
82) 4-Chlorotoluene	10.77	91	1019030	146.327	ug/l	99
83) tert-Butylbenzene	11.10	119	1035989	148.157	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	1066367	150.551	ug/l	100
85) sec-Butylbenzene	11.32	105	1271224	150.321	ug/l	99
86) p-Isopropyltoluene	11.48	119	1096900	152.217	ug/l	100
87) 1,3-Dichlorobenzene	11.42	146	588835	145.002	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	590645	140.907	ug/l	99
89) n-Butylbenzene	11.89	91	1053196	163.750	ug/l	99
90) Hexachloroethane	12.14	117	179807	148.321	ug/l	99
91) 1,2-Dichlorobenzene	11.88	146	588532	143.888	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.65	75	99283	151.604	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU010319\
Data File : VU028996.D
Acq On : 03 Jan 2019 14:42
Operator : MD/SY
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC150

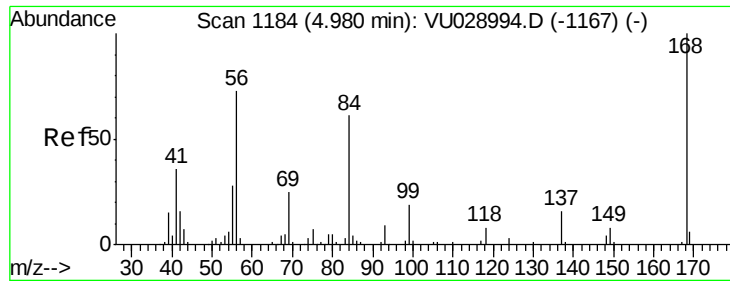
Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:51:04 AM

Quant Time: Jan 04 00:56:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
QLast Update : Fri Jan 04 00:41:33 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	413036	158.191	ug/l	100
94) Hexachlorobutadiene	13.69	225	173166	144.999	ug/l	99
95) Naphthalene	13.74	128	1360800	153.208	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	410066	147.711	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC150

Tgt Ion:168 Resp: 129294

Ion Ratio Lower Upper

168 100

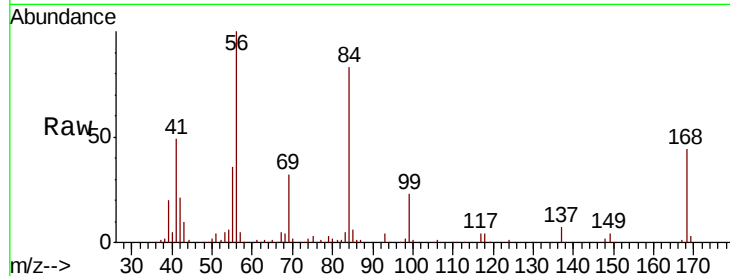
99 51.0 42.0 63.0

Manual Integrations

APPROVED

MMDadoda

1/4/2019 9:51:04 AM



Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)

100000

80000

60000

40000

20000

0

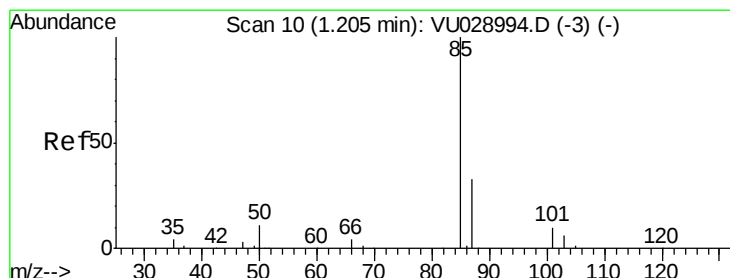
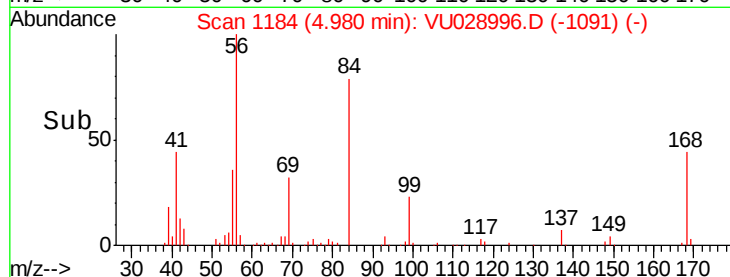
4.90

4.98

5.00

5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 145.600 ug/l

RT: 1.20 min Scan# 9

Delta R.T. -0.00 min

Lab File: VU028996.D

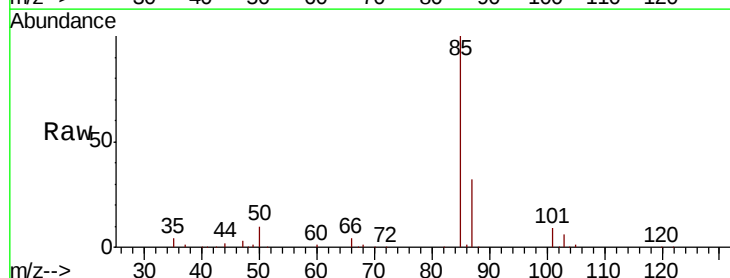
Acq: 03 Jan 2019 14:42

Tgt Ion: 85 Resp: 186692

Ion Ratio Lower Upper

85 100

87 32.4 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VU028994.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU028994.D (-3) (-)

200000

150000

100000

50000

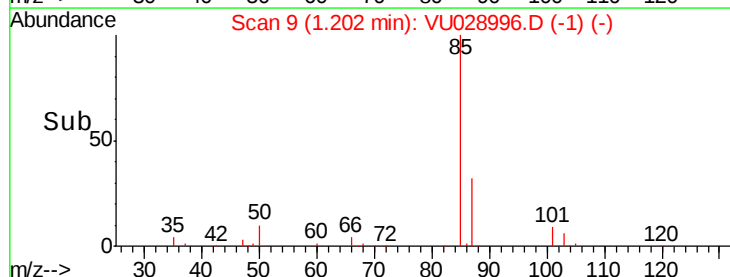
0

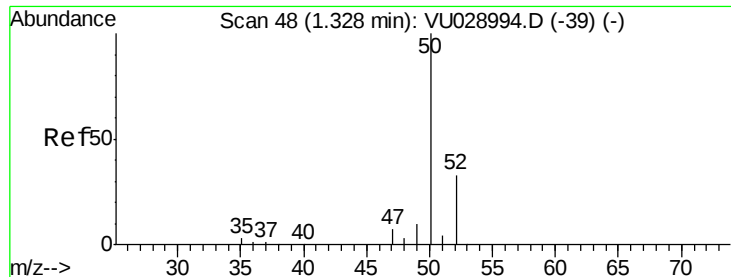
1.15

1.20

1.25

Time-->





#3

Chloromethane

Concen: 132.280 ug/l

RT: 1.32 min Scan# 47

Delta R.T. -0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC150

Tgt Ion: 50 Resp: 303534

Ion Ratio Lower Upper

50 100

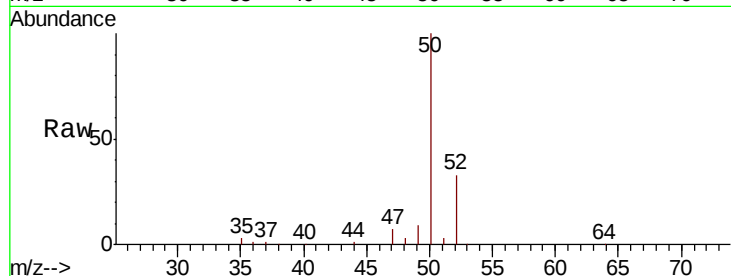
52 32.8 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

1/4/2019 9:51:04 AM



Abundance Ion 49.90 (49.60 to 50.60): VU028996.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU028996.D (-1) (-)

1.32

250000

200000

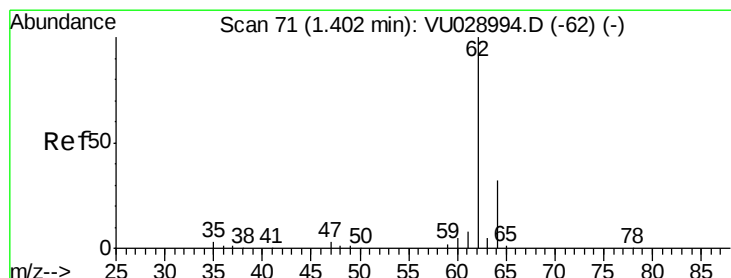
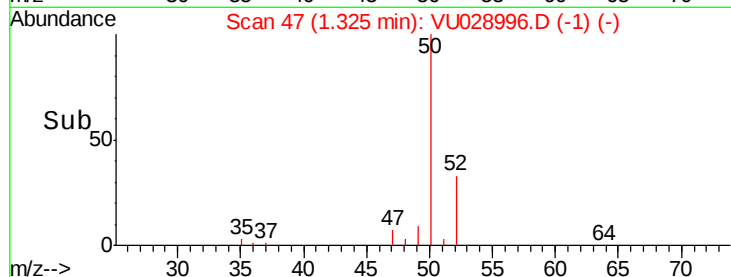
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 146.751 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028996.D

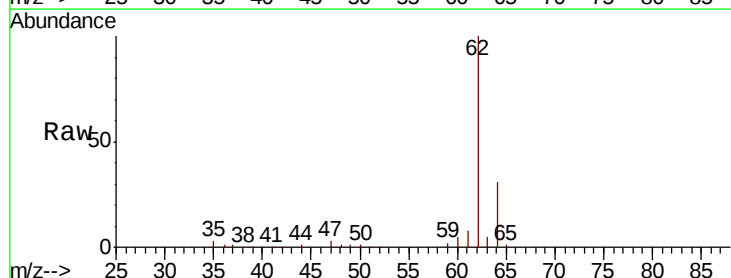
Acq: 03 Jan 2019 14:42

Tgt Ion: 62 Resp: 277295

Ion Ratio Lower Upper

62 100

64 31.2 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VU028996.D (-1) (-)

Ion 63.90 (63.60 to 64.60): VU028996.D (-1) (-)

1.40

300000

250000

200000

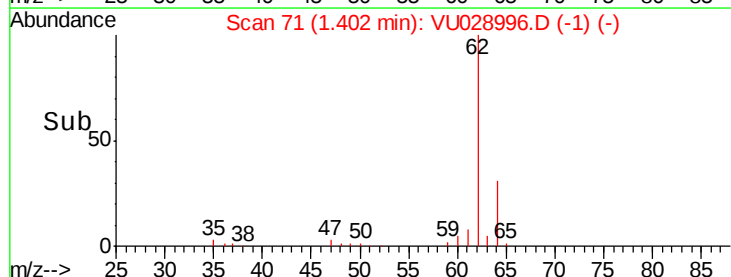
150000

100000

50000

0

Time-->





#5

Bromomethane

Concen: 121.703 ug/l

RT: 1.60 min Scan# 133

Delta R.T. -0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC150

Tgt Ion: 94 Resp: 137682

Ion Ratio Lower Upper

94 100

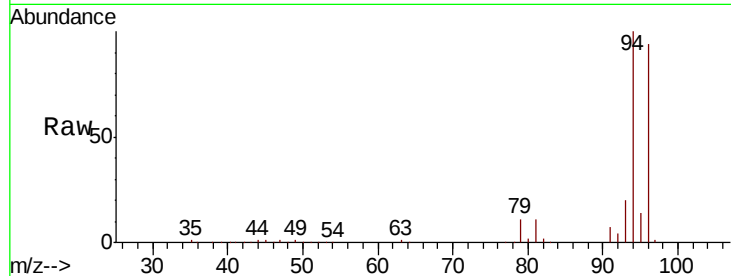
96 93.8 75.5 113.3

Manual Integrations

APPROVED

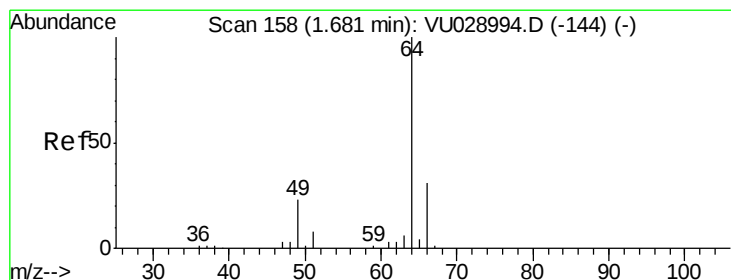
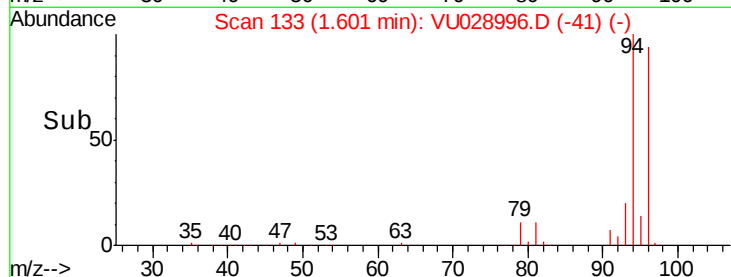
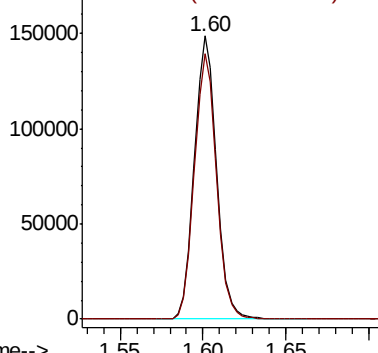
MMDadoda

1/4/2019 9:51:04 AM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 147.966 ug/l

RT: 1.67 min Scan# 153

Delta R.T. -0.02 min

Lab File: VU028996.D

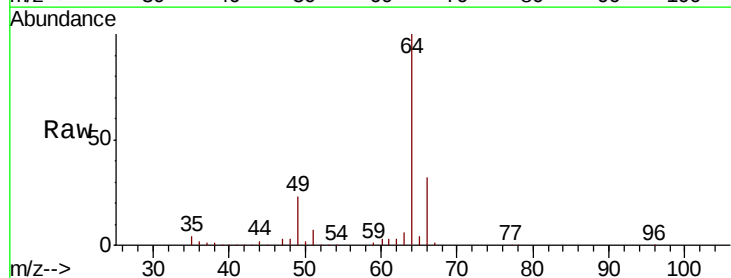
Acq: 03 Jan 2019 14:42

Tgt Ion: 64 Resp: 166536

Ion Ratio Lower Upper

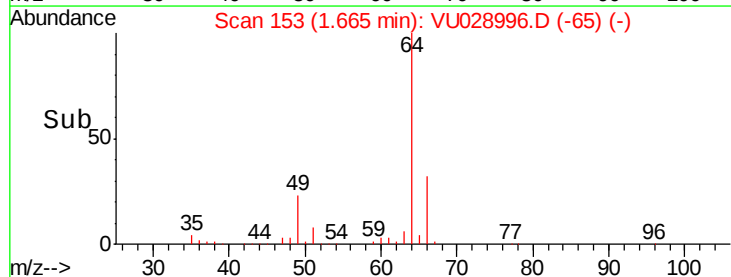
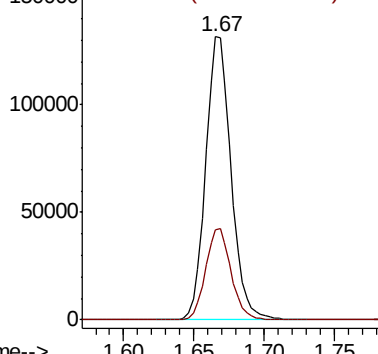
64 100

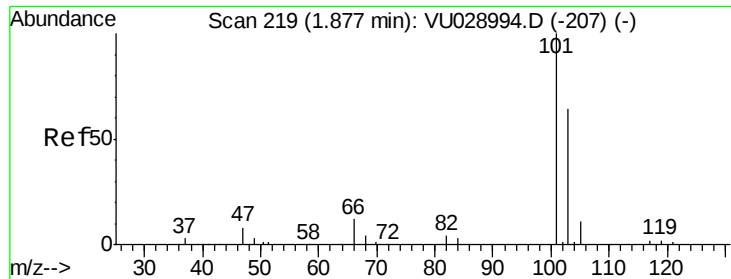
66 32.0 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

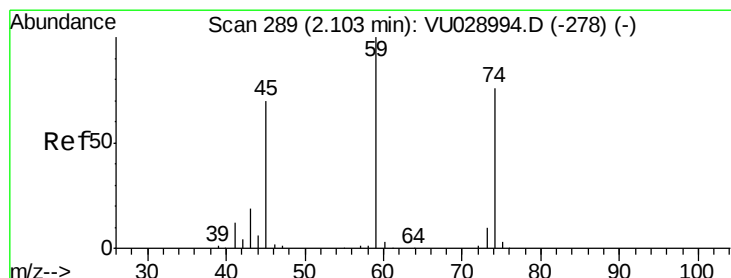
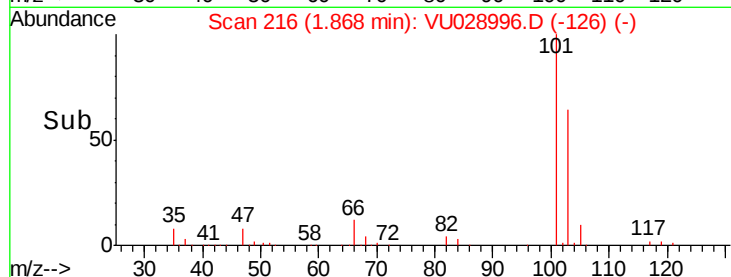
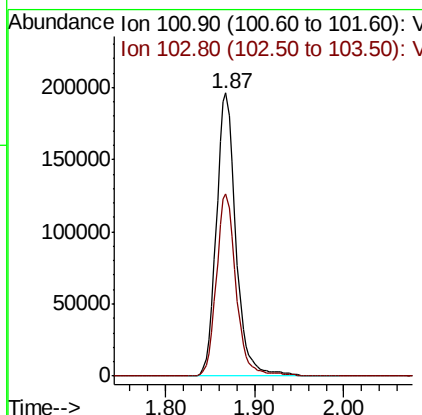
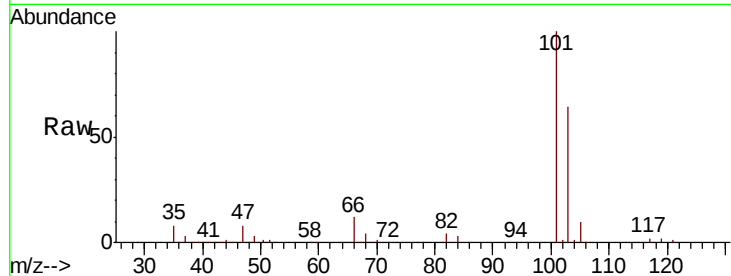
Trichlorofluoromethane
 Concen: 144.790 ug/l
 RT: 1.87 min Scan# 216
 Delta R.T. -0.01 min
 Lab File: VU028996.D
 Acq: 03 Jan 2019 14:42

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC150

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	298121		
103	64.4	51.5	77.3	

Manual Integrations
 APPROVED

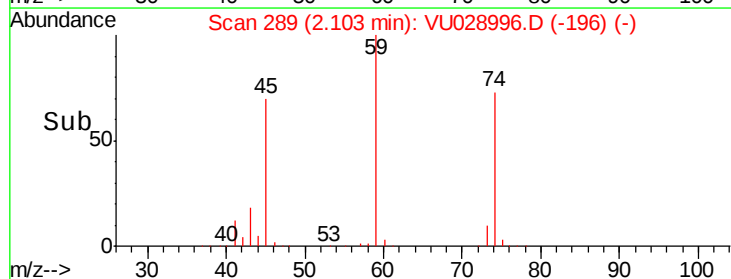
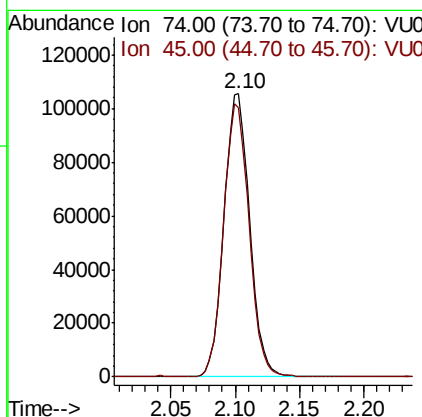
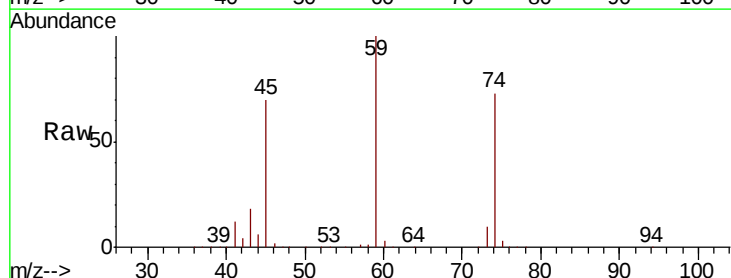
MMDadoda
 1/4/2019 9:51:04 AM

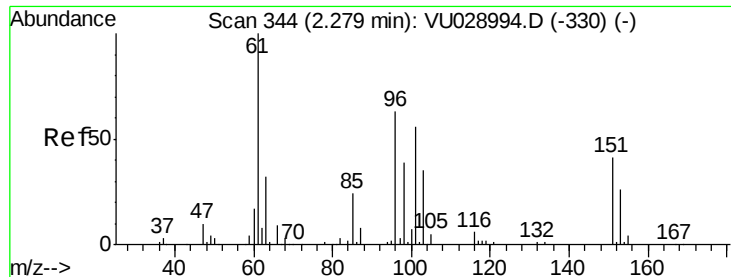


#8

Diethyl Ether
 Concen: 147.420 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. 0.00 min
 Lab File: VU028996.D
 Acq: 03 Jan 2019 14:42

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	145827		
45	96.0	46.9	140.6	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 144.314 ug/l

RT: 2.27 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

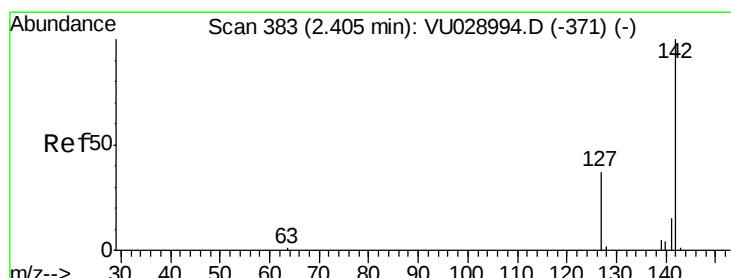
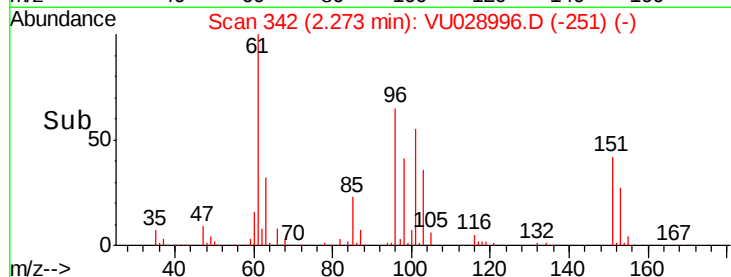
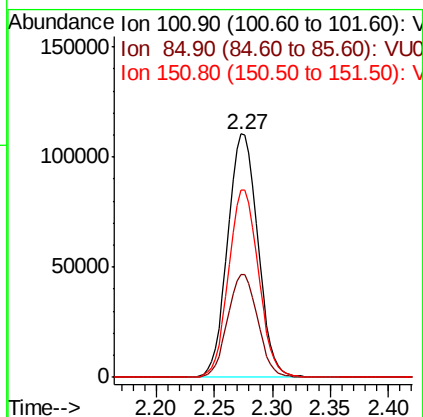
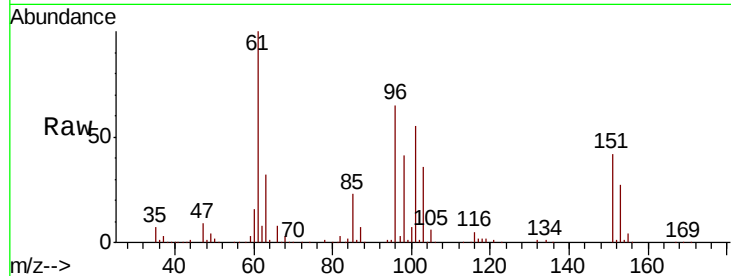
ClientSampleId :

VSTDIC150

Tgt Ion:	101	Resp:	198816
Ion Ratio	Lower	Upper	
101	100		
85	42.1	35.1	52.7
151	76.5	60.2	90.2

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:51:04 AM



#10

Methyl Iodide

Concen: 160.051 ug/l

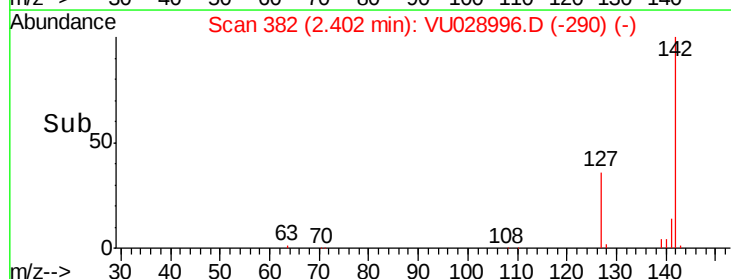
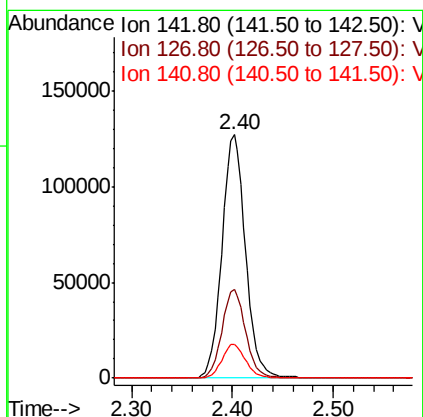
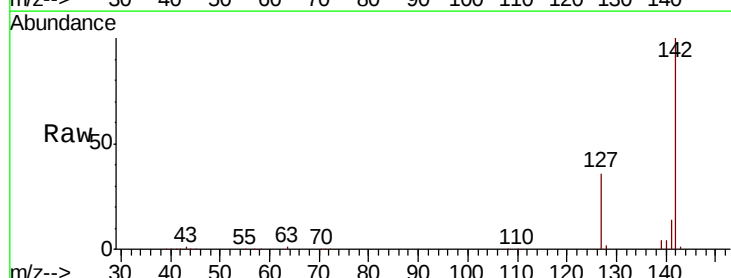
RT: 2.40 min Scan# 382

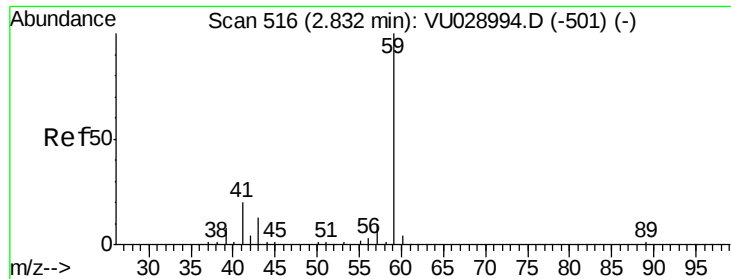
Delta R.T. -0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Tgt Ion:	142	Resp:	207327
Ion Ratio	Lower	Upper	
142	100		
127	36.7	29.8	44.6
141	14.0	11.5	17.3





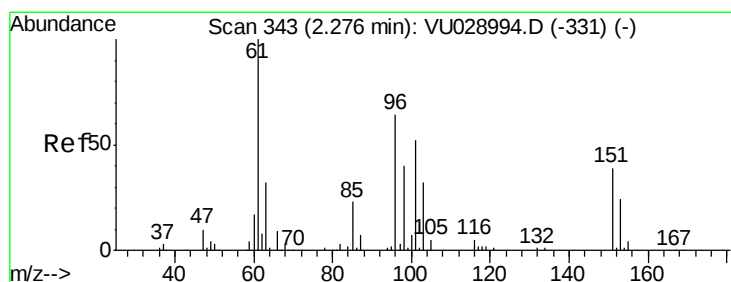
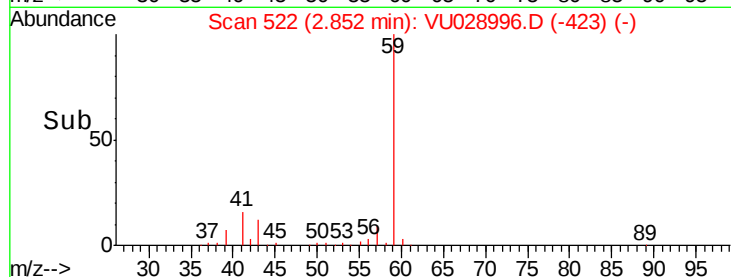
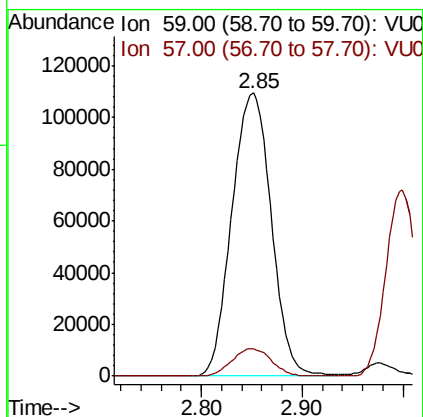
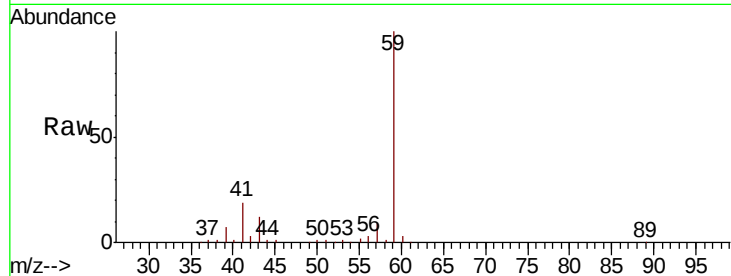
#11
Tert butyl alcohol
Concen: 731.470 ug/l
RT: 2.85 min Scan# 522
Delta R.T. 0.02 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
59	100		
57	9.7	7.9	11.9

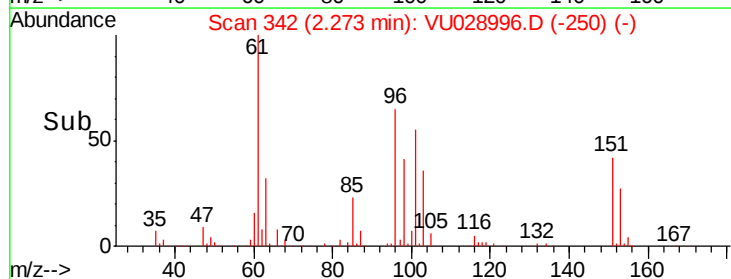
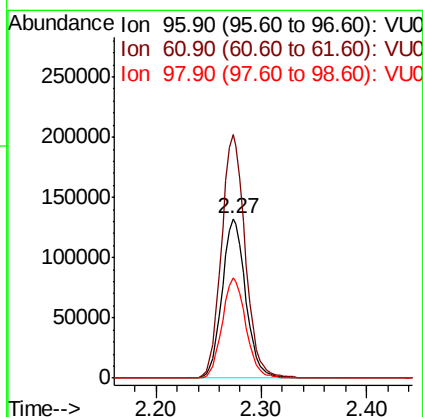
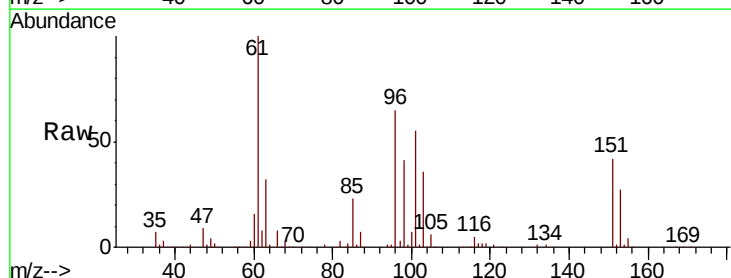
Manual Integrations
APPROVED

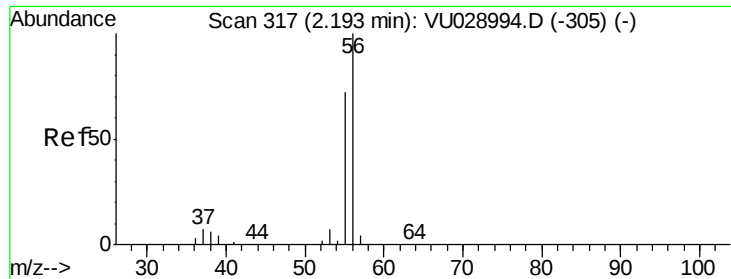
MMDadoda
1/4/2019 9:51:04 AM



#12
1,1-Dichloroethene
Concen: 152.075 ug/l
RT: 2.27 min Scan# 342
Delta R.T. -0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.9	125.4	188.0
98	62.8	49.7	74.5





#13

Acrolein

Concen: 715.592 ug/l

RT: 2.19 min Scan# 317

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 218303

Ion Ratio Lower Upper

56 100

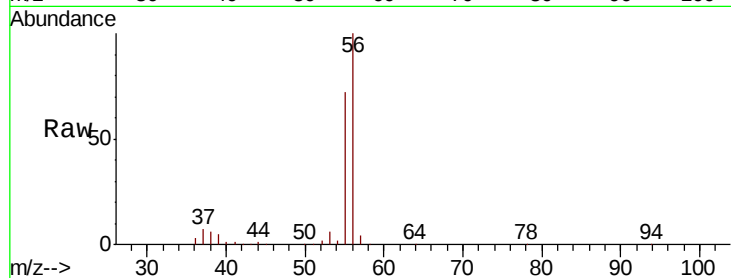
55 71.5 56.5 84.7

Manual Integrations

APPROVED

MMDadoda

1/4/2019 9:51:04 AM



Abundance Ion 56.00 (55.70 to 56.70): VU028994.D (-305) (-)

Ion 55.00 (54.70 to 55.70): VU028994.D (-305) (-)

2.19

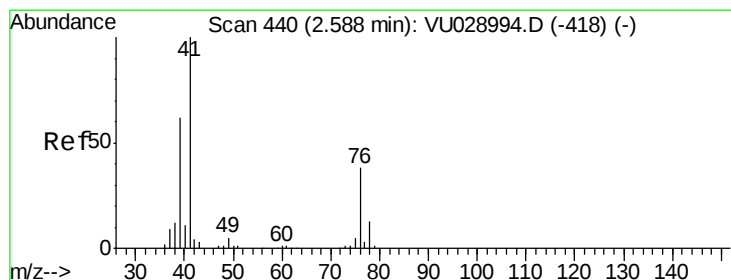
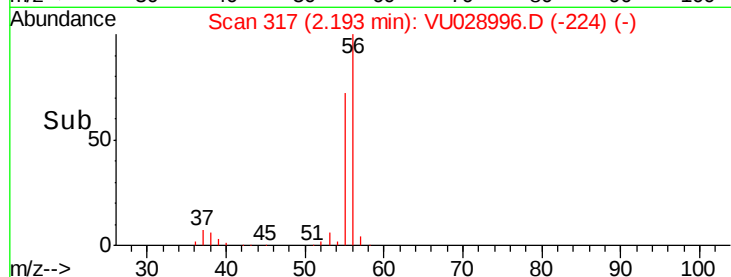
150000

100000

50000

0

Time--> 2.10 2.20 2.30



#14

Allyl chloride

Concen: 142.651 ug/l

RT: 2.58 min Scan# 439

Delta R.T. -0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

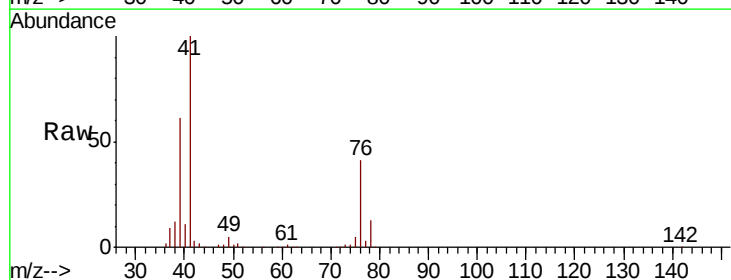
Tgt Ion: 41 Resp: 350981

Ion Ratio Lower Upper

41 100

39 56.0 45.0 67.6

76 35.5 28.1 42.1



Abundance Ion 41.00 (40.70 to 41.70): VU028994.D (-418) (-)

Ion 39.00 (38.70 to 39.70): VU028994.D (-418) (-)

Ion 75.90 (75.60 to 76.60): VU028994.D (-418) (-)

500000

400000

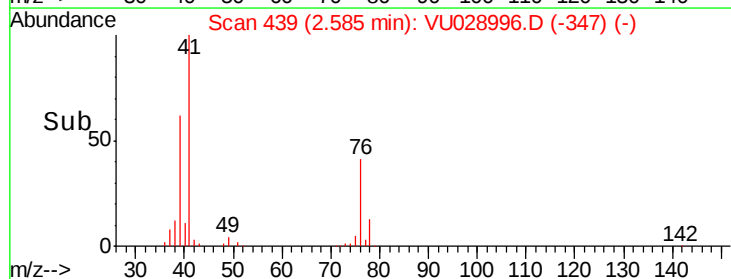
300000

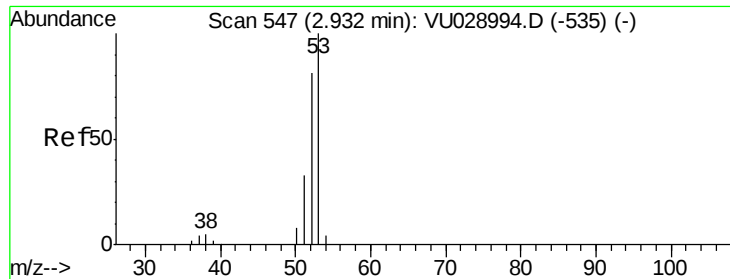
200000

100000

0

Time--> 2.50 2.60 2.70





#15

Acrylonitrile

Concen: 741.423 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

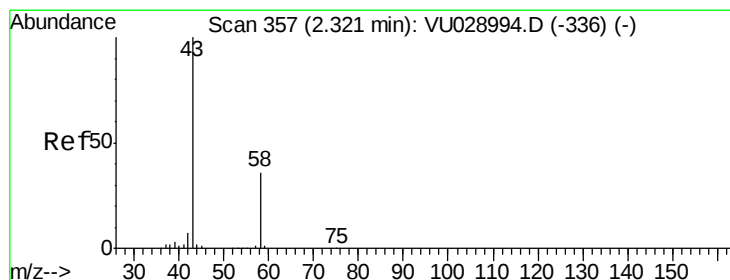
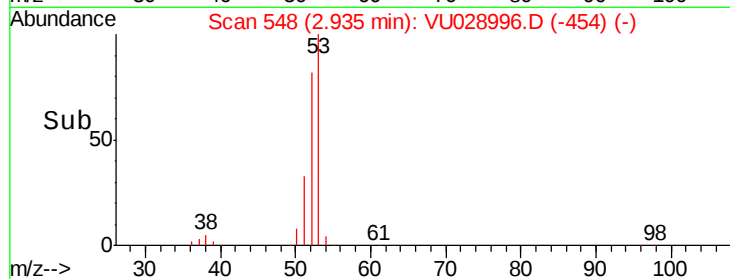
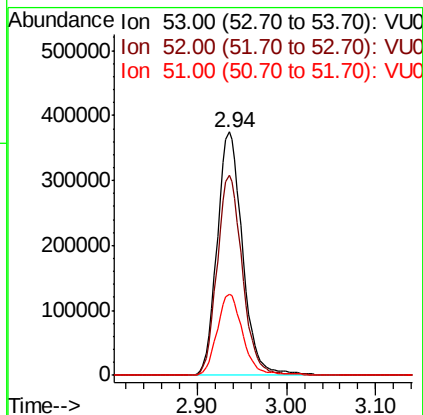
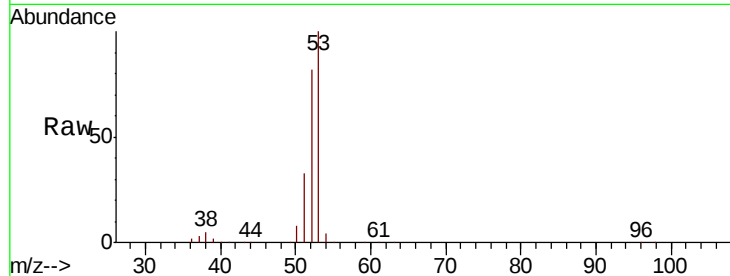
ClientSampleId :

VSTDIC150

Tgt Ion:	53	Resp:	738993
Ion	Ratio	Lower	Upper
53	100		
52	81.8	64.8	97.2
51	34.1	27.3	40.9

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:51:04 AM



#16

Acetone

Concen: 615.226 ug/l

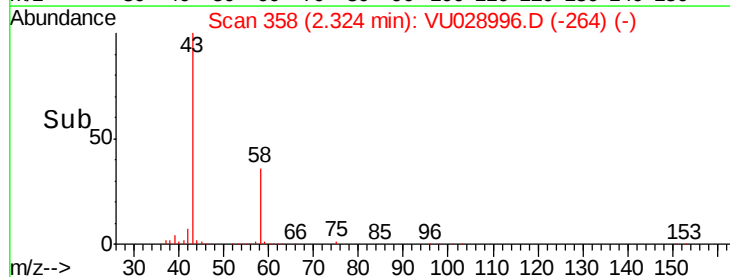
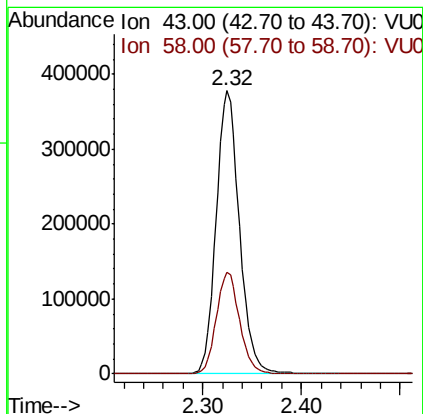
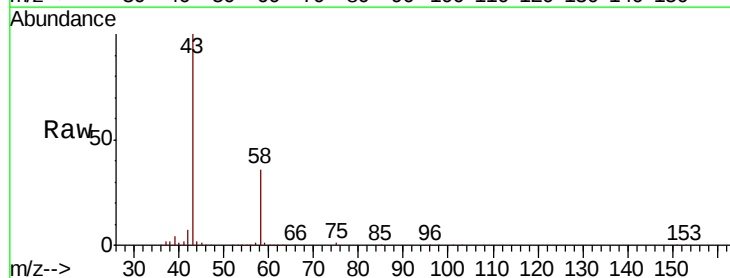
RT: 2.32 min Scan# 358

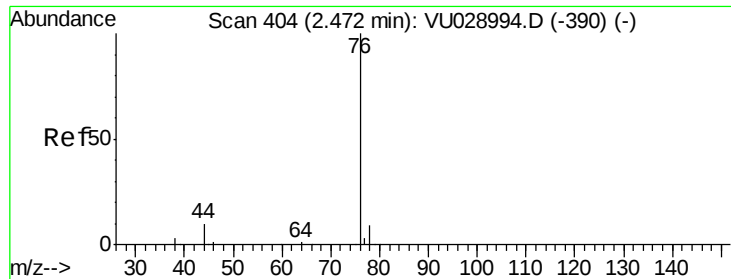
Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Tgt Ion:	43	Resp:	619461
Ion	Ratio	Lower	Upper
43	100		
58	35.8	28.6	42.8





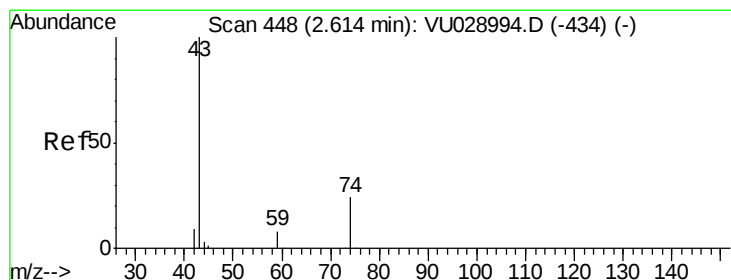
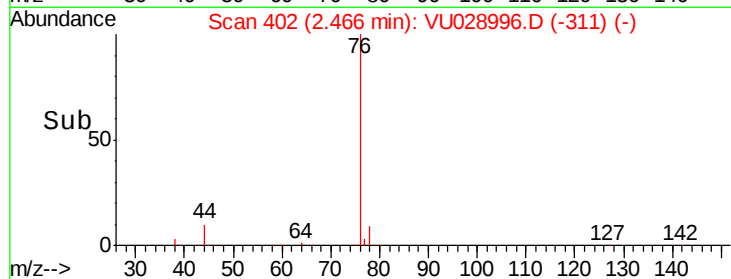
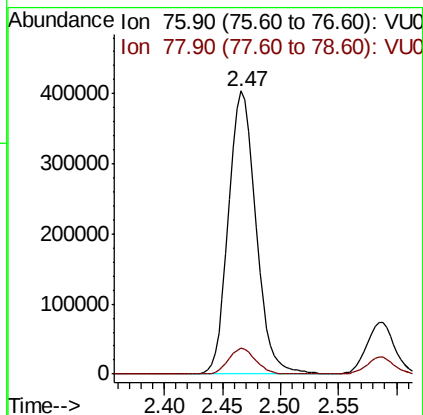
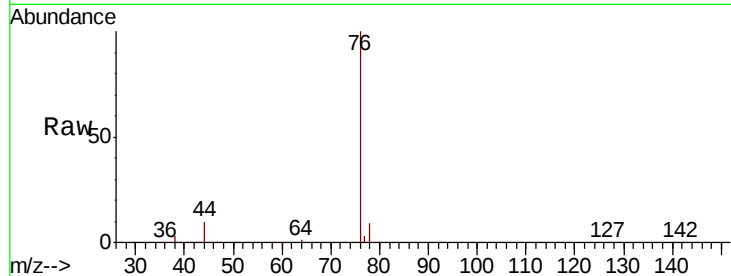
#17
Carbon Disulfide
Concen: 132.692 ug/l
RT: 2.47 min Scan# 402
Delta R.T. -0.01 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion: 76 Resp: 662148
Ion Ratio Lower Upper
76 100
78 9.1 7.2 10.8

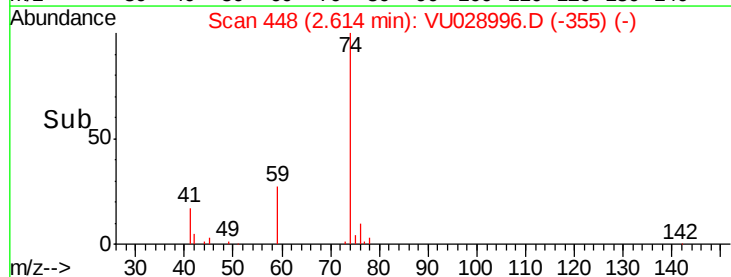
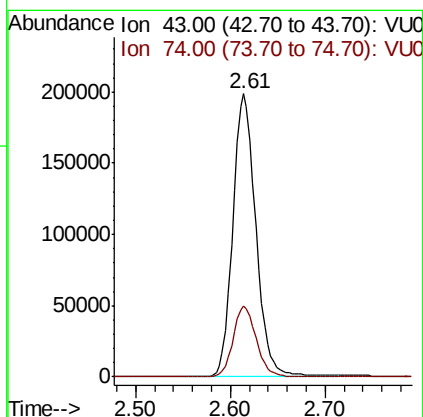
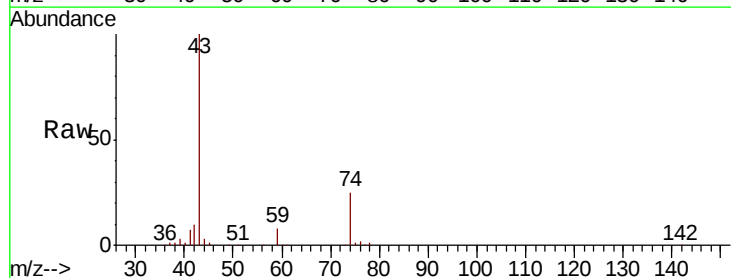
Manual Integrations
APPROVED

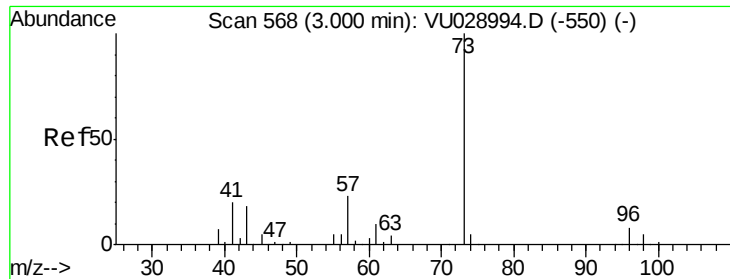
MMDadoda
1/4/2019 9:51:04 AM



#18
Methyl Acetate
Concen: 143.579 ug/l
RT: 2.61 min Scan# 448
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion: 43 Resp: 336144
Ion Ratio Lower Upper
43 100
74 25.4 19.5 29.3





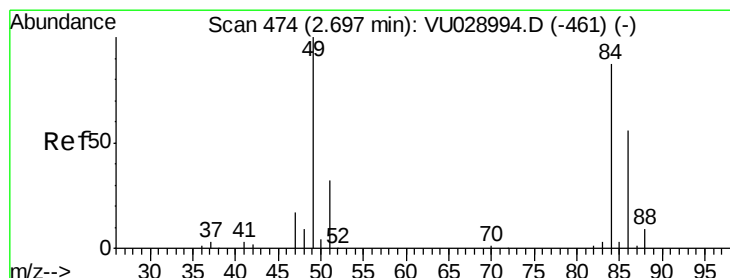
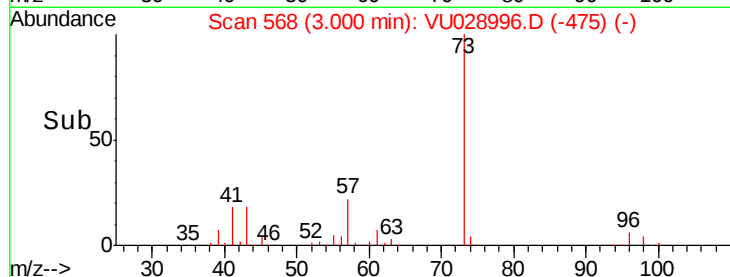
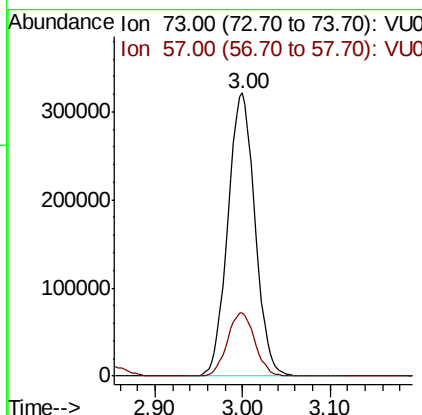
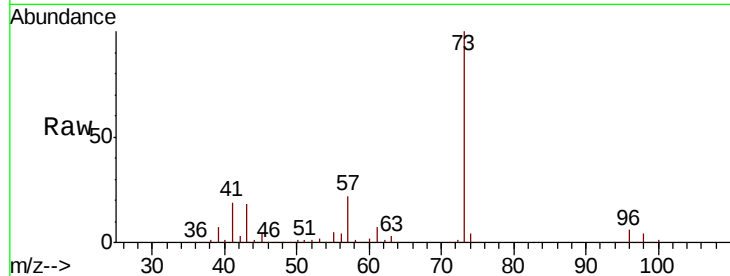
#19
Methyl tert-butyl Ether
Concen: 146.540 ug/l
RT: 3.00 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion: 73 Resp: 690858
Ion Ratio Lower Upper
73 100
57 22.3 18.6 28.0

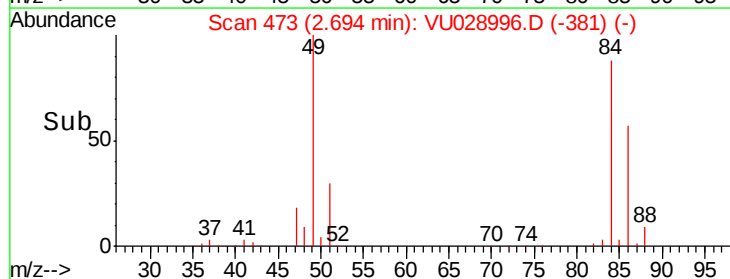
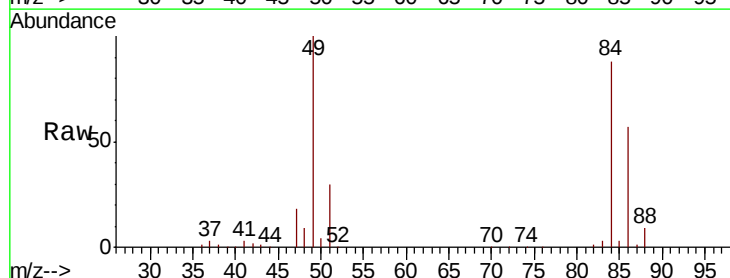
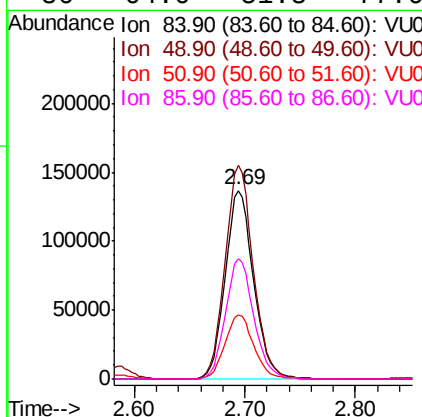
Manual Integrations
APPROVED

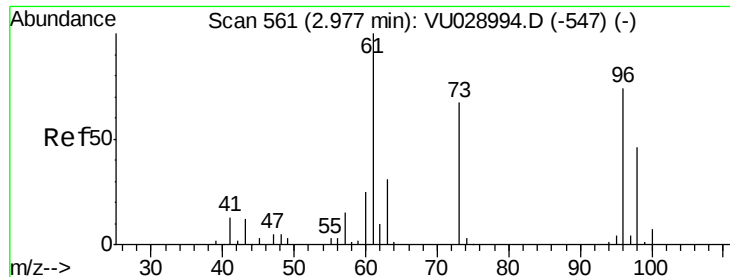
MMDadoda
1/4/2019 9:51:04 AM



#20
Methylene Chloride
Concen: 142.729 ug/l
RT: 2.69 min Scan# 473
Delta R.T. -0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion: 84 Resp: 243999
Ion Ratio Lower Upper
84 100
49 113.1 91.9 137.9
51 34.1 29.2 43.8
86 64.0 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 142.524 ug/l

RT: 2.97 min Scan# 560

Delta R.T. -0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 222047

Ion Ratio Lower Upper

96 100

61 137.3 107.7 161.5

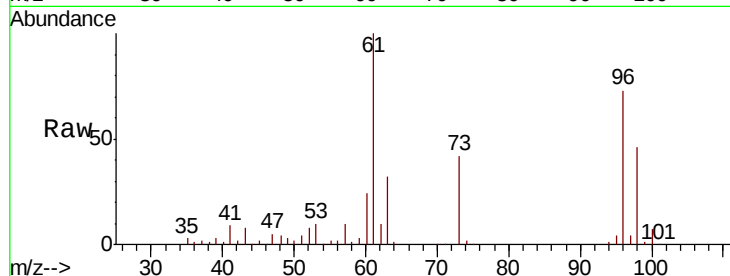
98 62.7 49.2 73.8

Manual Integrations

APPROVED

MMDadoda

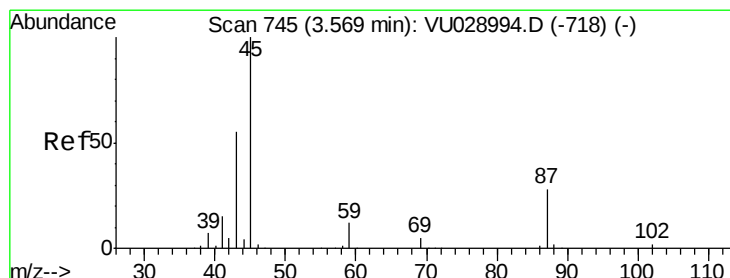
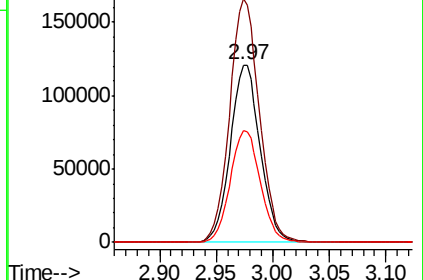
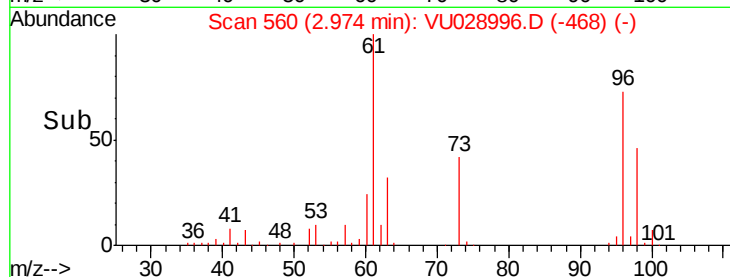
1/4/2019 9:51:04 AM



Abundance Ion 95.90 (95.60 to 96.60): VU028994.D (-547) (-)

Ion 60.90 (60.60 to 61.60): VU028994.D (-547) (-)

Ion 97.90 (97.60 to 98.60): VU028994.D (-547) (-)



#22

Diisopropyl ether

Concen: 147.297 ug/l

RT: 3.57 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Tgt Ion: 45 Resp: 716266

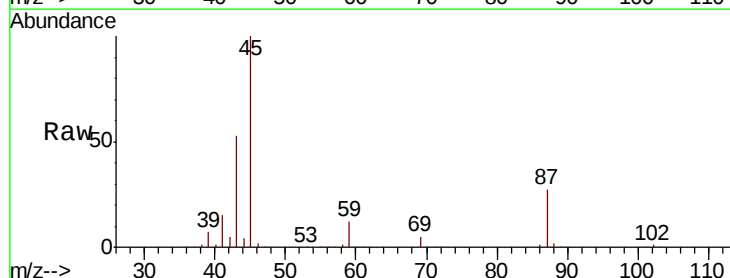
Ion Ratio Lower Upper

45 100

43 52.6 44.7 67.1

87 27.3 22.2 33.2

59 12.1 9.8 14.8

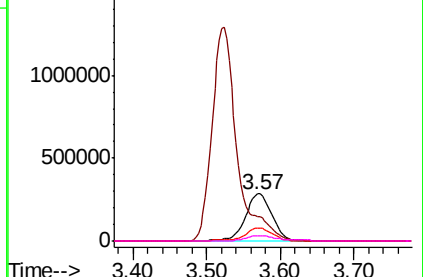
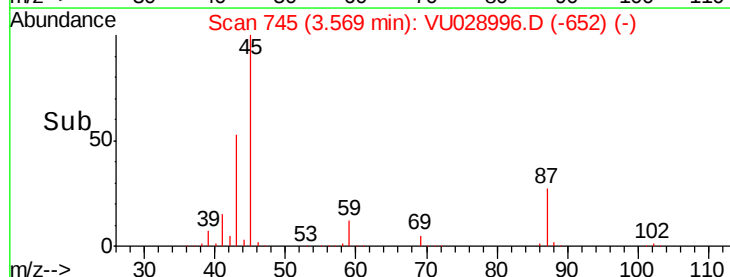


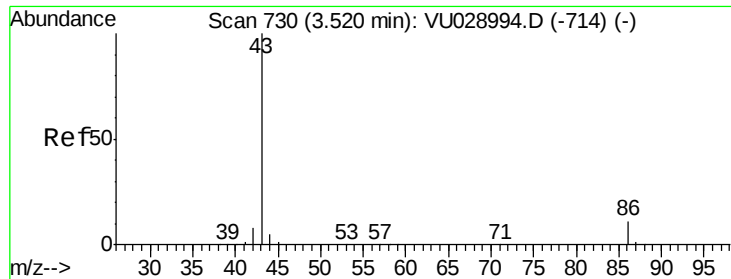
Abundance Ion 45.00 (44.70 to 45.70): VU028994.D (-718) (-)

Ion 43.00 (42.70 to 43.70): VU028994.D (-718) (-)

Ion 87.00 (86.70 to 87.70): VU028994.D (-718) (-)

Ion 59.00 (58.70 to 59.70): VU028994.D (-718) (-)





#23

Vinyl Acetate

Concen: 765.116 ug/l

RT: 3.52 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 3041585

Ion Ratio Lower Upper

43 100

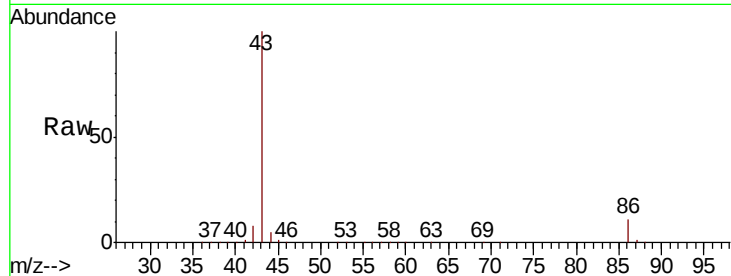
86 11.1 8.6 13.0

Manual Integrations

APPROVED

MMDadoda

1/4/2019 9:51:04 AM



Abundance Ion 43.00 (42.70 to 43.70): VU028996.D (-637) (-)

Ion 86.00 (85.70 to 86.70): VU028996.D (-637) (-)

1500000

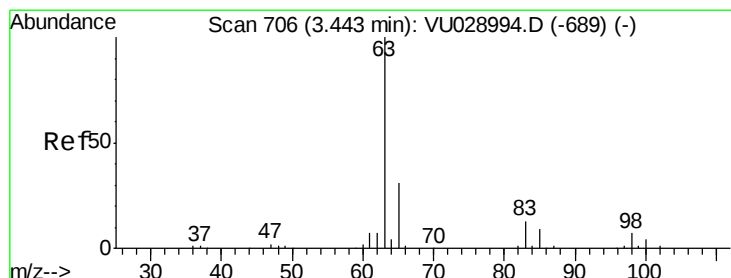
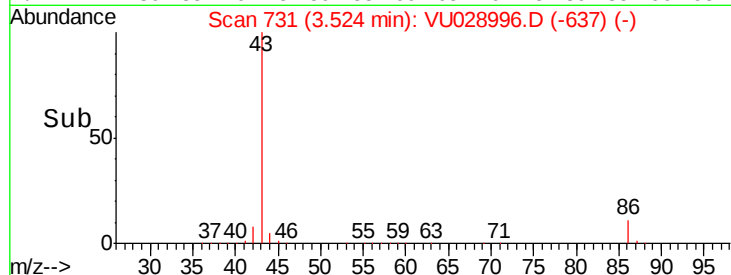
1000000

500000

0

3.40 3.50 3.60 3.70

Time-->



#24

1,1-Dichloroethane

Concen: 147.673 ug/l

RT: 3.44 min Scan# 705

Delta R.T. -0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

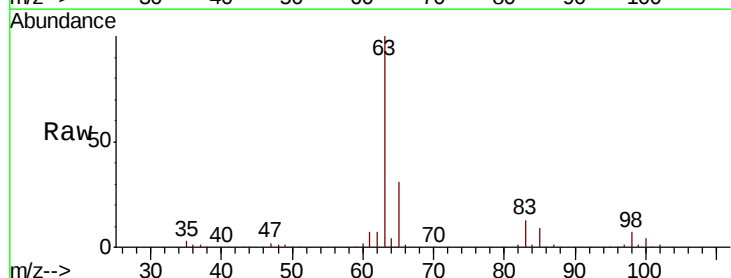
Tgt Ion: 63 Resp: 414537

Ion Ratio Lower Upper

63 100

98 6.7 3.4 10.1

100 4.2 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VU028996.D (-613) (-)

Ion 97.90 (97.60 to 98.60): VU028996.D (-613) (-)

Ion 99.90 (99.60 to 100.60): VU028996.D (-613) (-)

250000

200000

150000

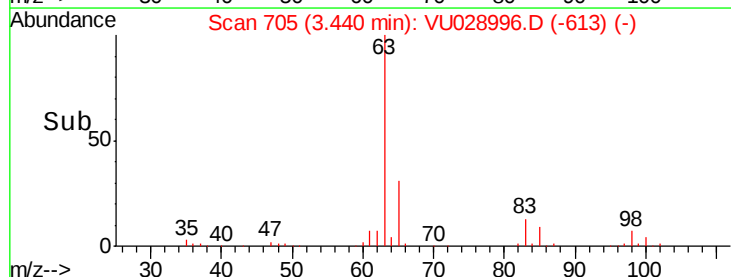
100000

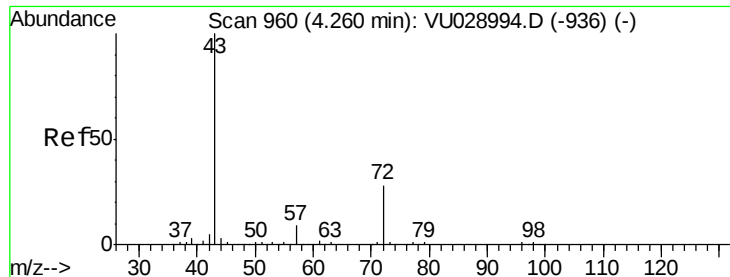
50000

0

3.40 3.50

Time-->





#25

2-Butanone

Concen: 730.288 ug/l

RT: 4.26 min Scan# 961

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 993151

Ion Ratio Lower Upper

43 100

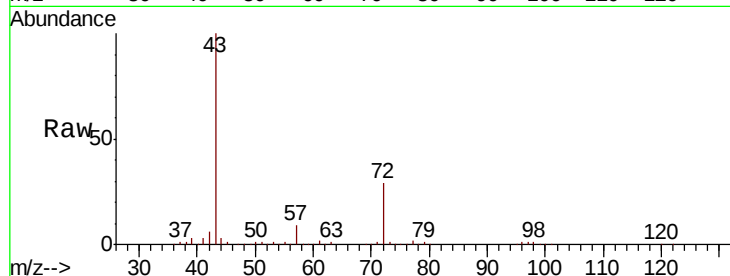
72 28.5 22.6 33.8

Manual Integrations

APPROVED

MMDadoda

1/4/2019 9:51:04 AM

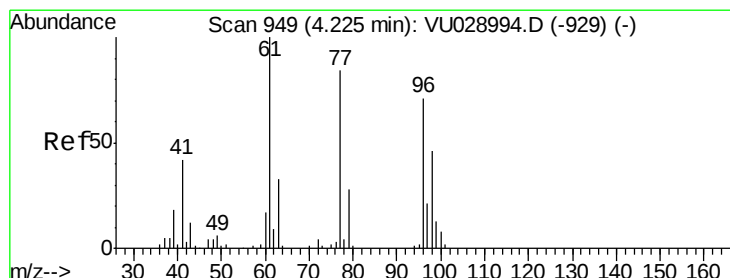
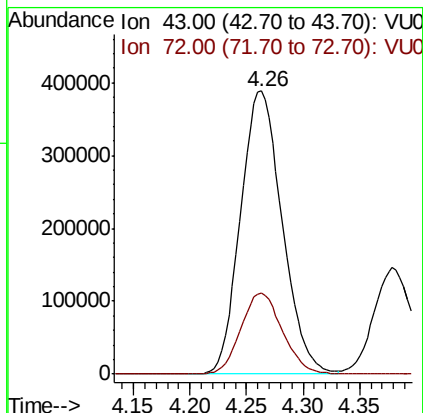
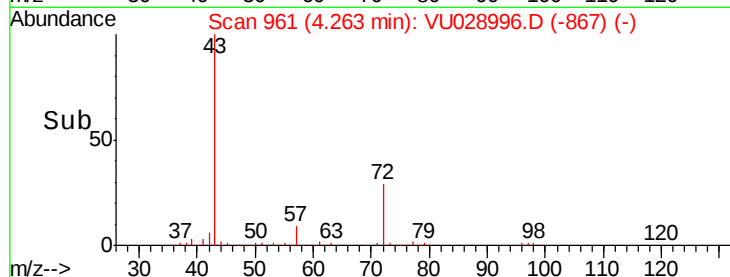


Abundance Ion 43.00 (42.70 to 43.70): VU028996.D (-867) (-)

Ion 72.00 (71.70 to 72.70): VU028996.D (-867) (-)

4.26

4.22



#26

2,2-Dichloropropane

Concen: 143.666 ug/l

RT: 4.22 min Scan# 948

Delta R.T. -0.00 min

Lab File: VU028996.D

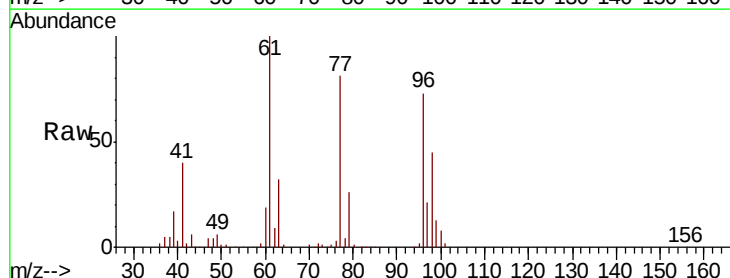
Acq: 03 Jan 2019 14:42

Tgt Ion: 77 Resp: 325867

Ion Ratio Lower Upper

77 100

97 24.6 12.0 36.1

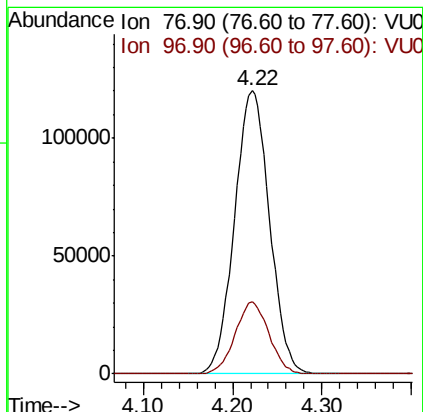
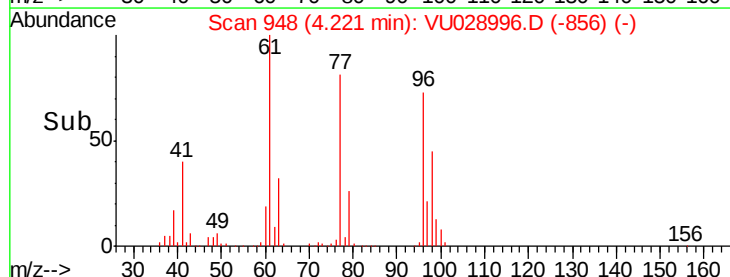


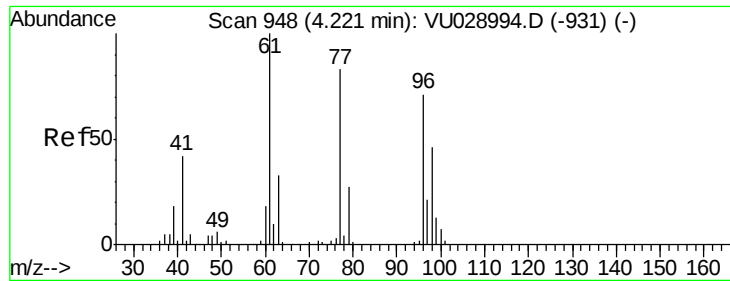
Abundance Ion 76.90 (76.60 to 77.60): VU028996.D (-856) (-)

Ion 96.90 (96.60 to 97.60): VU028996.D (-856) (-)

4.22

4.22





#27

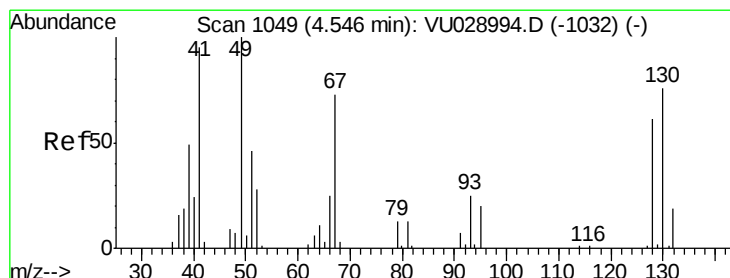
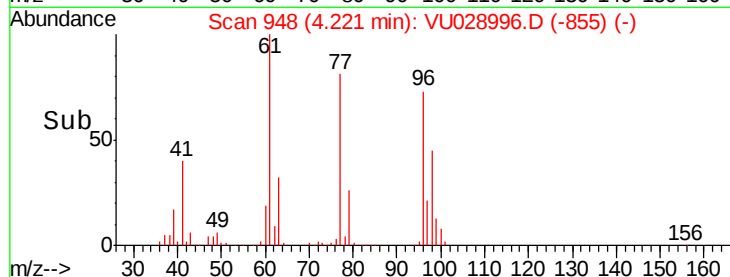
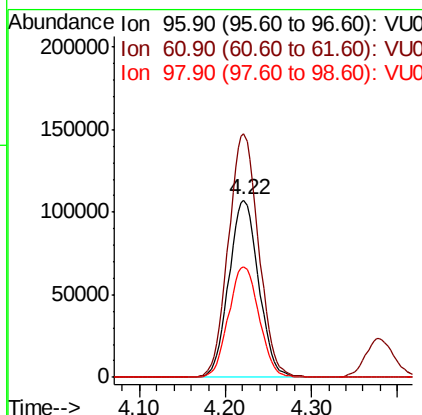
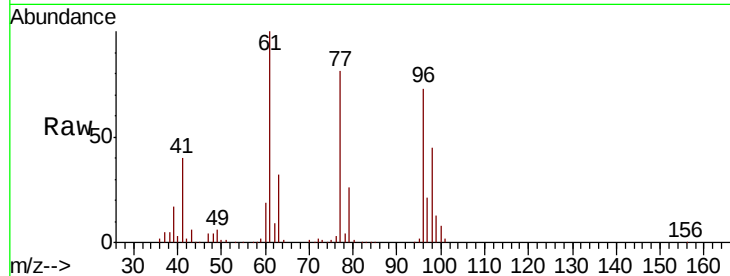
cis-1,2-Dichloroethene
Concen: 151.470 ug/l
RT: 4.22 min Scan# 948
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	258101		
61	139.7	0.0	285.6	
98	63.8	0.0	130.2	

Manual Integrations
APPROVED

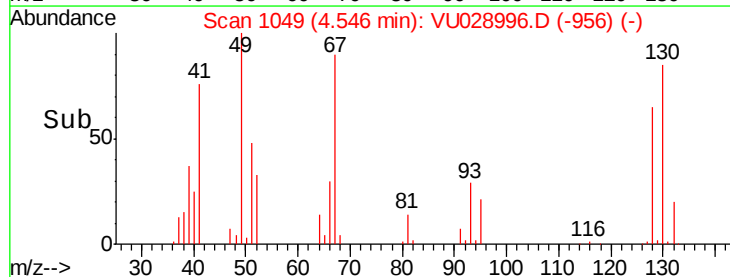
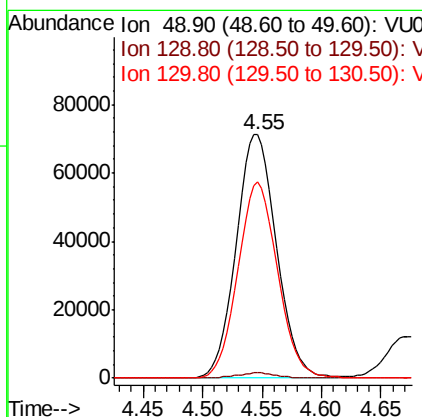
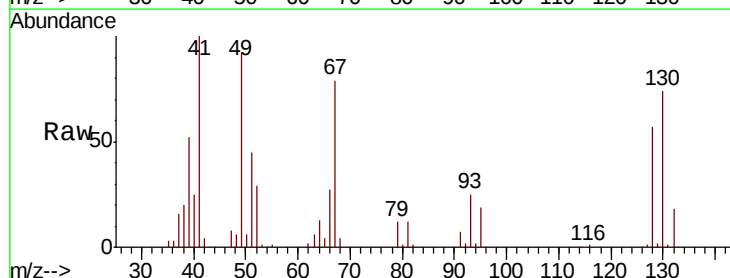
MMDadoda
1/4/2019 9:51:04 AM

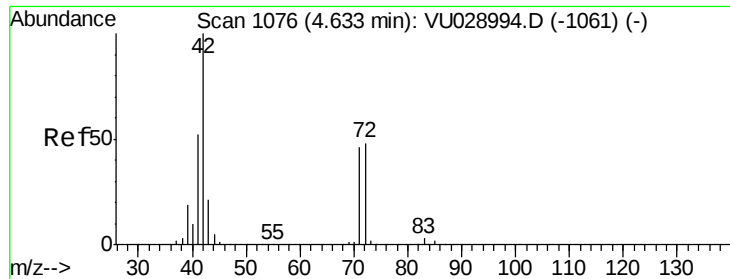


#28

Bromochloromethane
Concen: 139.262 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	167394		
129	2.0	0.0	3.4	
130	79.4	62.9	94.3	





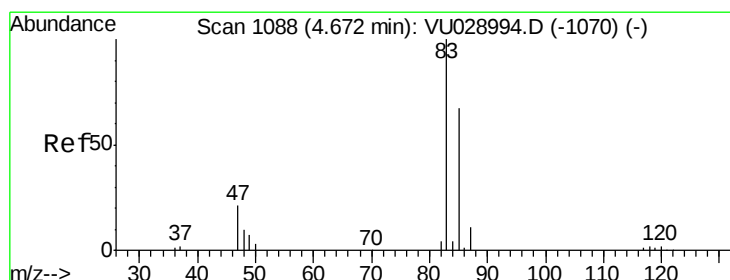
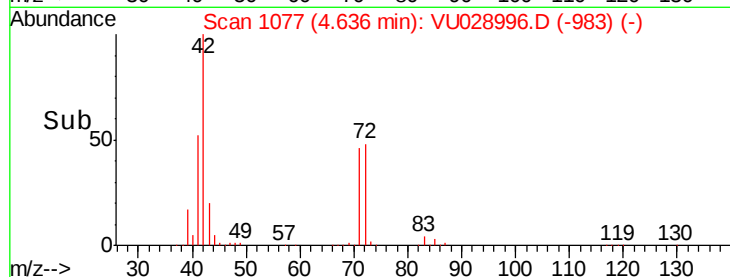
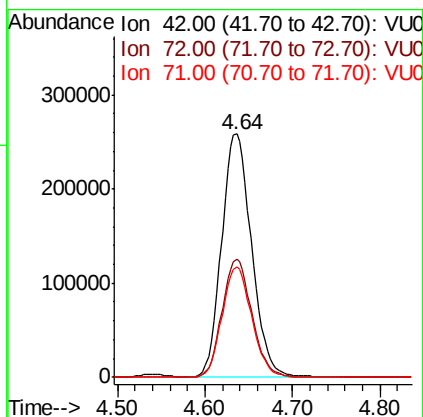
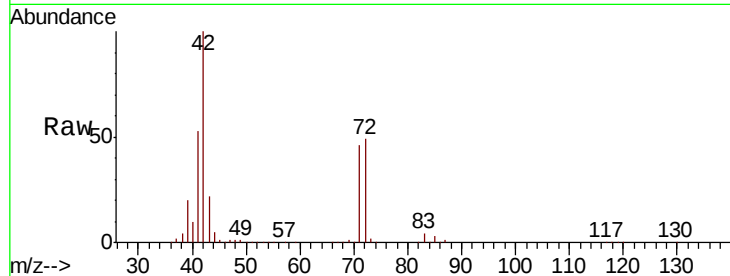
#29
Tetrahydrofuran
Concen: 742.539 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
42	100		
72	48.6	38.3	57.5
71	45.2	36.1	54.1

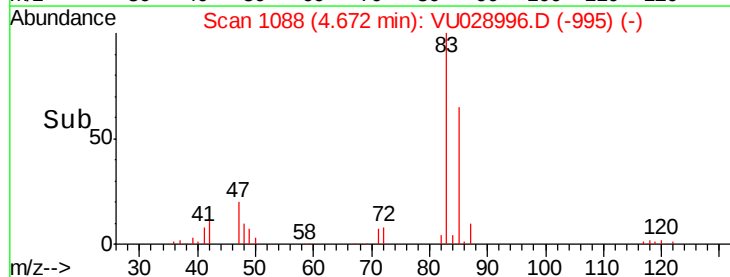
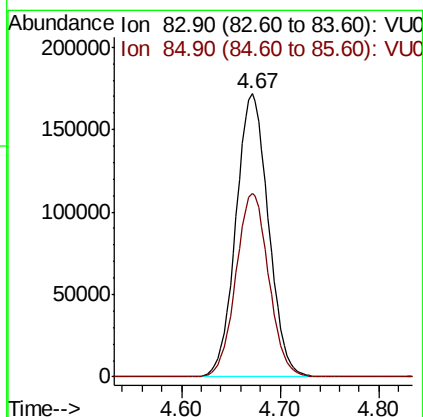
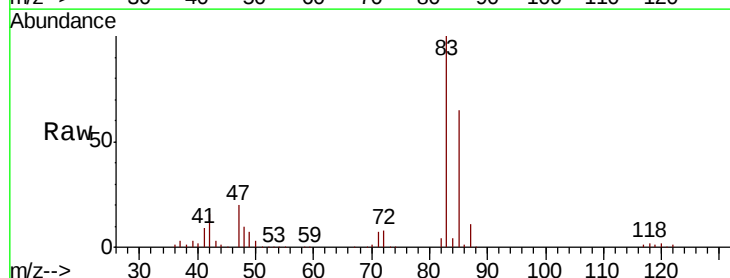
Manual Integrations
APPROVED

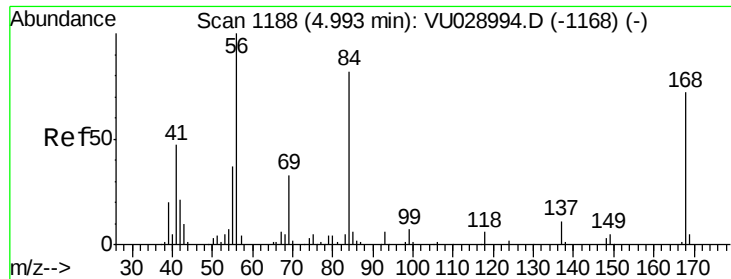
MMDadoda
1/4/2019 9:51:04 AM



#30
Chloroform
Concen: 146.748 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	53.4	80.0





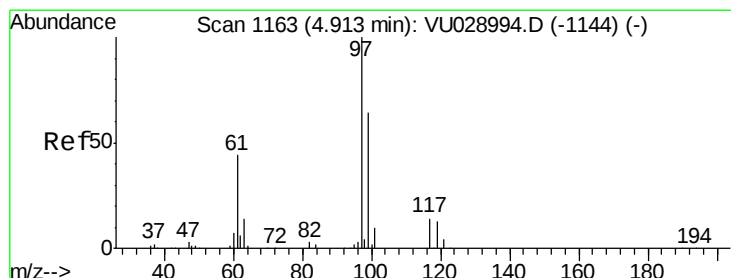
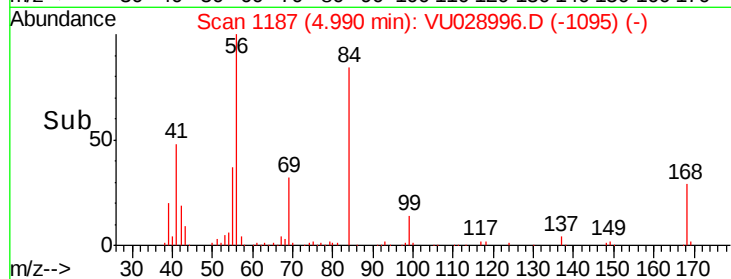
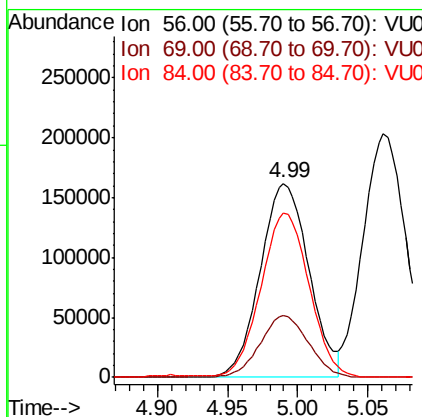
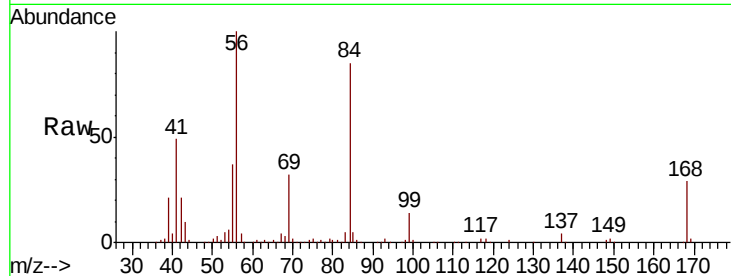
#31
Cyclohexane
Concen: 125.451 ug/l
RT: 4.99 min Scan# 1187
Delta R.T. -0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
56	100		
69	32.1	26.7	40.1
84	83.9	65.7	98.5

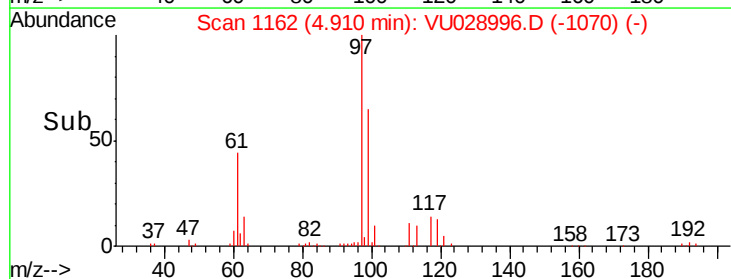
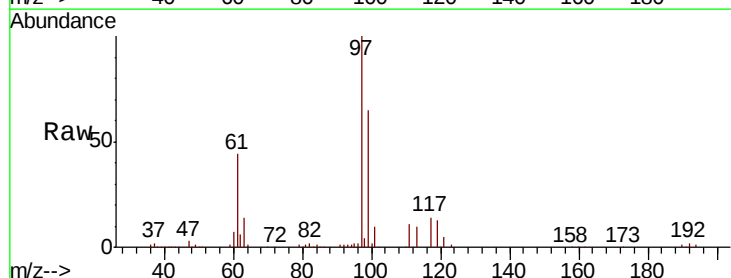
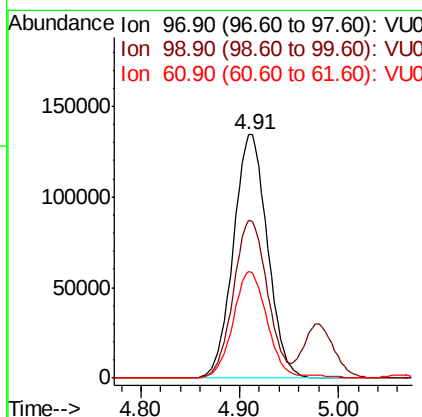
Manual Integrations
APPROVED

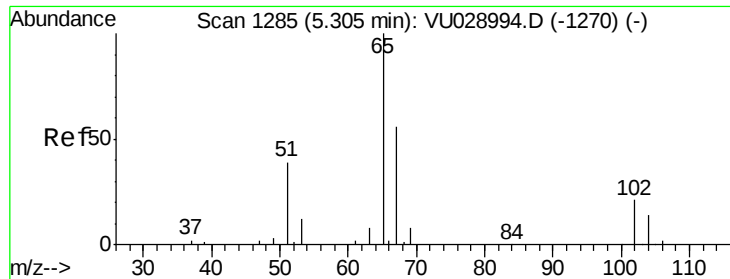
MMDadoda
1/4/2019 9:51:04 AM



#32
1,1,1-Trichloroethane
Concen: 145.878 ug/l
RT: 4.91 min Scan# 1162
Delta R.T. -0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.0	76.4
61	43.4	34.4	51.6





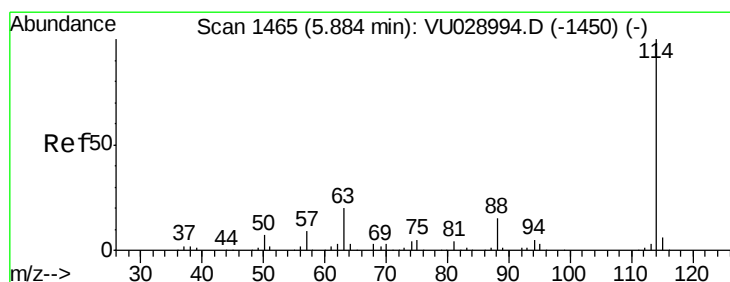
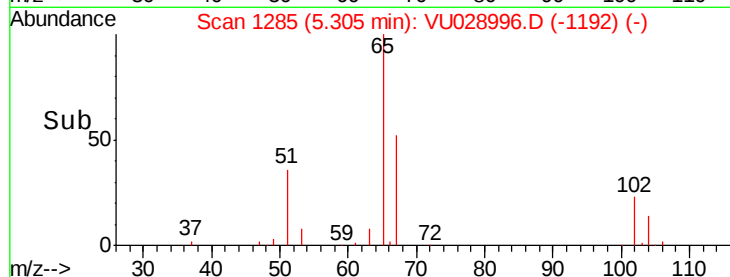
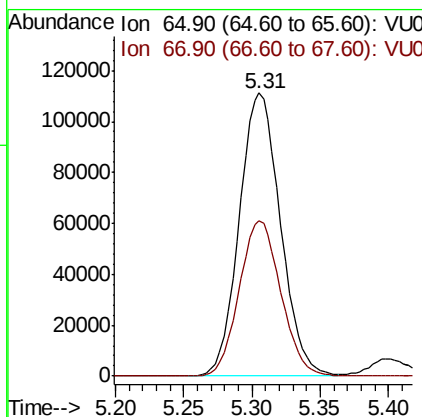
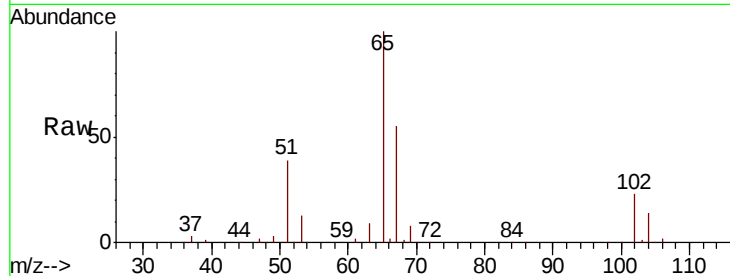
#33
 1,2-Dichloroethane-d4
 Concen: 145.610 ug/l
 RT: 5.31 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VU028996.D
 Acq: 03 Jan 2019 14:42

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC150

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	232733		
67	55.5	0.0	111.0	

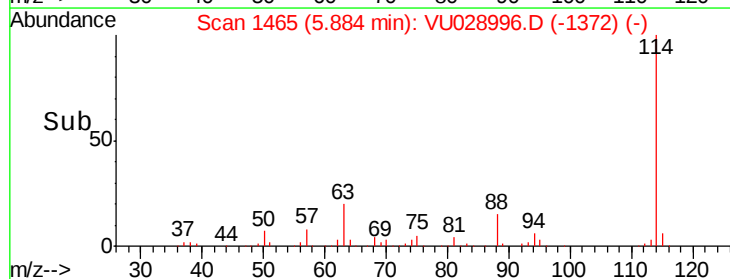
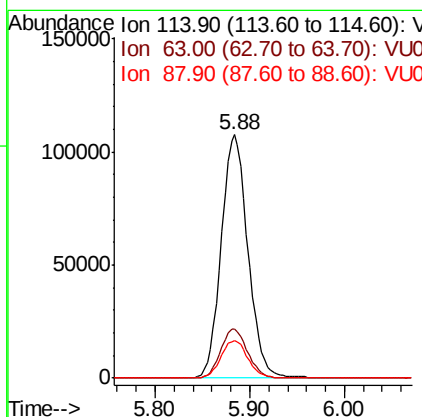
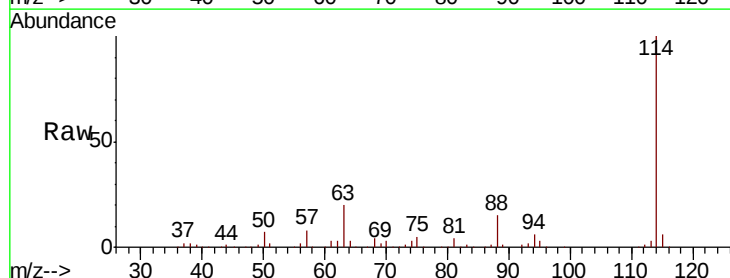
Manual Integrations
 APPROVED

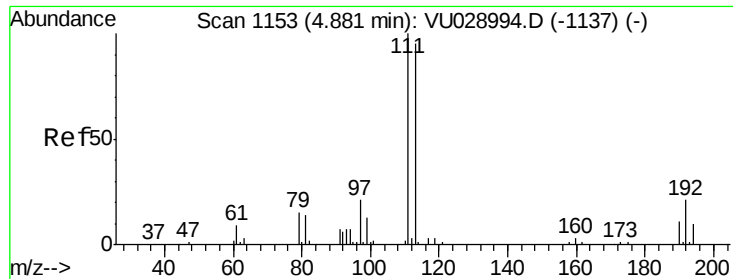
MMDadoda
 1/4/2019 9:51:04 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU028996.D
 Acq: 03 Jan 2019 14:42

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	211108		
63	20.4	0.0	40.2	
88	15.3	0.0	30.4	





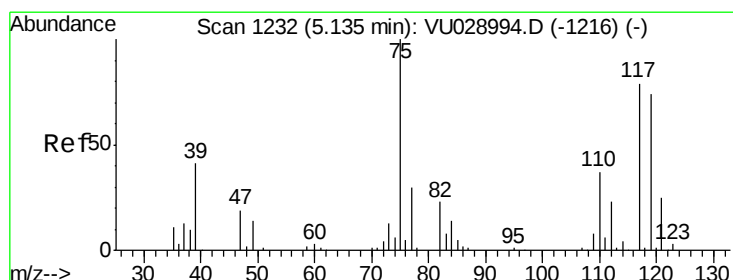
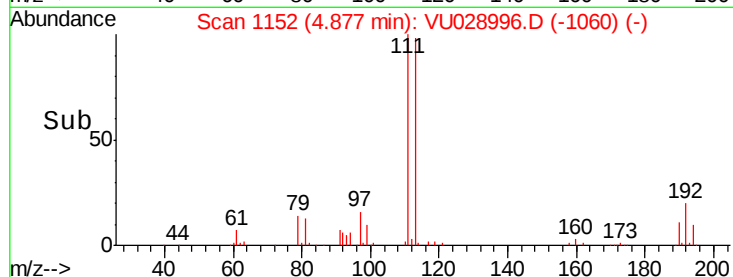
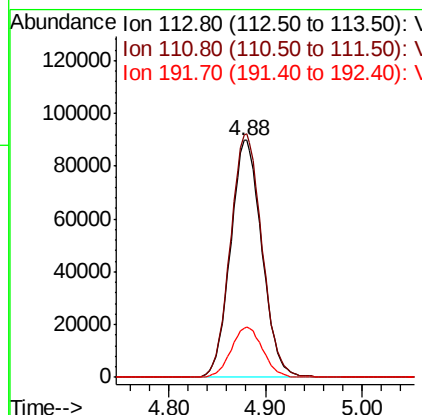
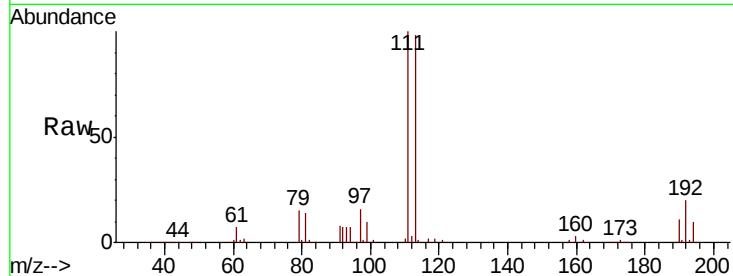
#35
Dibromofluoromethane
Concen: 147.713 ug/l
RT: 4.88 min Scan# 1152
Delta R.T. -0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	202140		
111	103.2	81.4	122.2	
192	21.4	16.8	25.2	

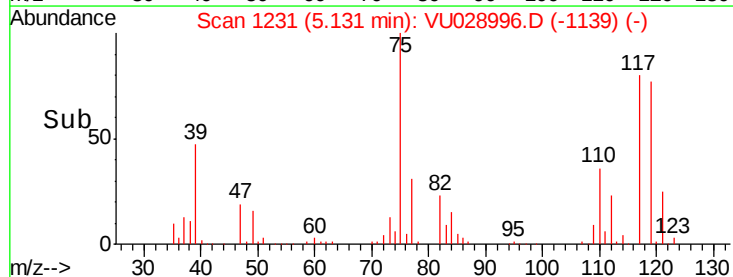
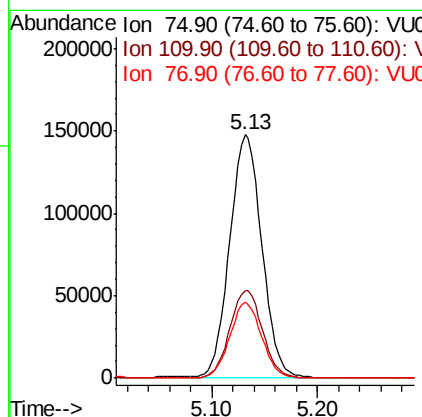
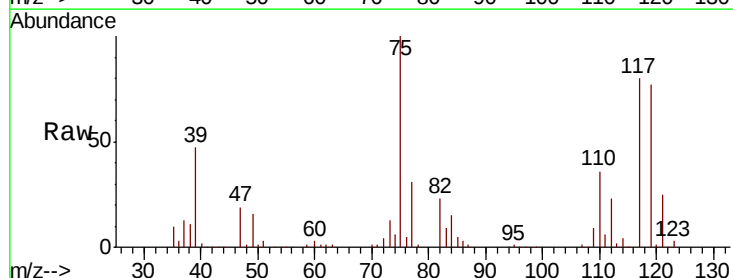
Manual Integrations
APPROVED

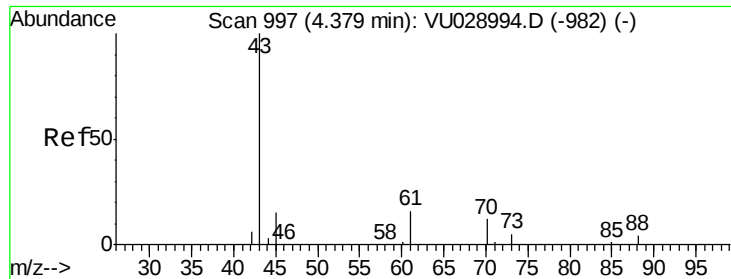
MMDadoda
1/4/2019 9:51:04 AM



#36
1,1-Dichloropropene
Concen: 147.658 ug/l
RT: 5.13 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	311576		
110	36.7	18.4	55.4	
77	31.1	25.1	37.7	





#37

Ethyl Acetate

Concen: 145.465 ug/l

RT: 4.38 min Scan# 997

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

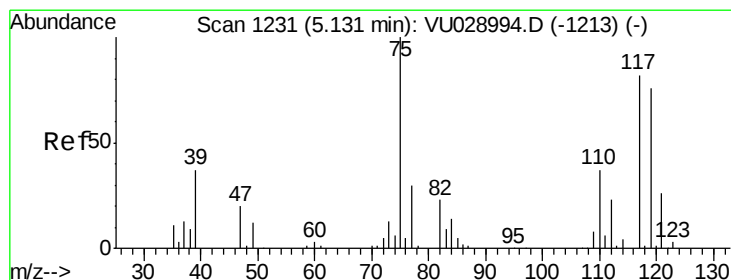
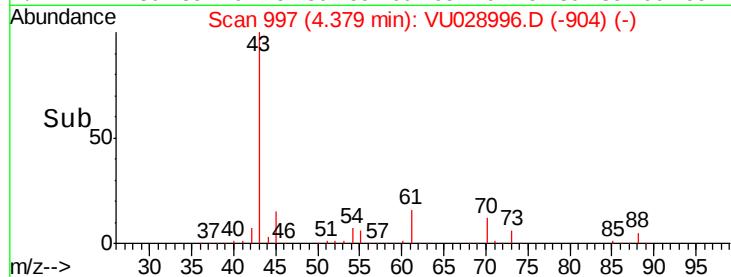
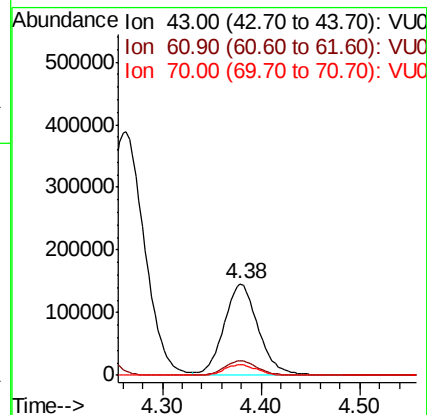
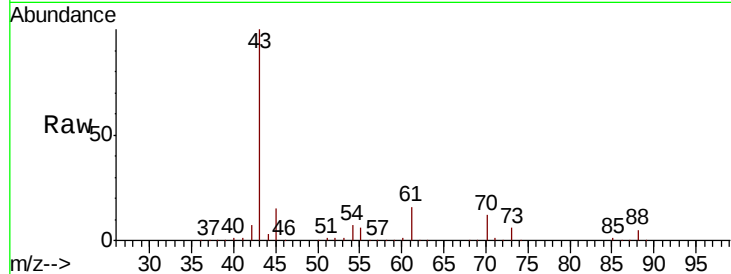
ClientSampleId :

VSTDIC150

Tgt Ion:	43	Resp:	350836
Ion	Ratio	Lower	Upper
43	100		
61	15.8	12.6	18.8
70	11.6	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:51:04 AM



#38

Carbon Tetrachloride

Concen: 153.853 ug/l

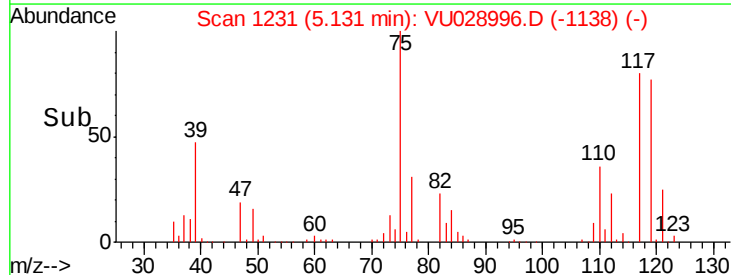
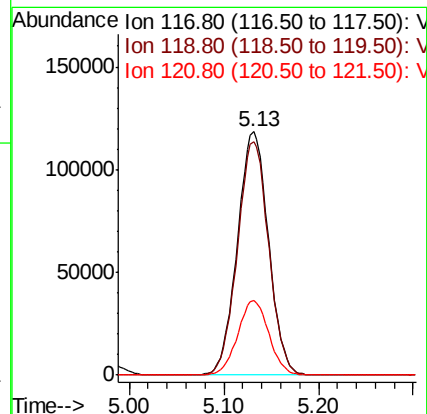
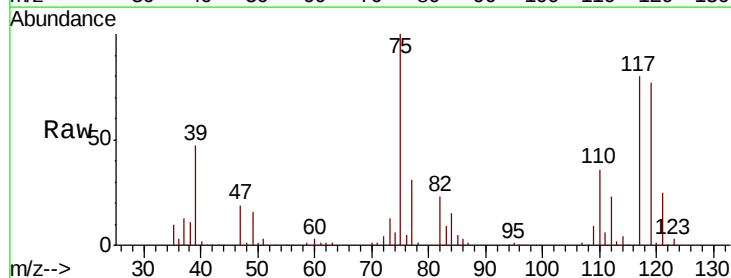
RT: 5.13 min Scan# 1231

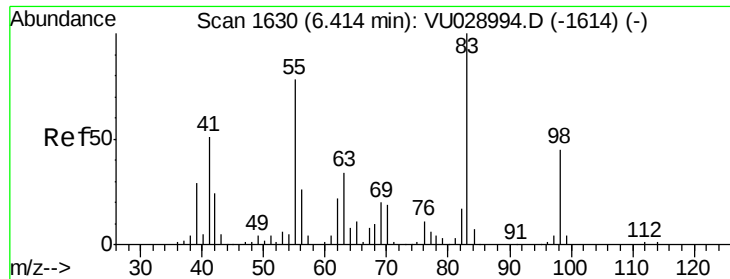
Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Tgt Ion:	117	Resp:	270773
Ion	Ratio	Lower	Upper
117	100		
119	96.1	74.6	111.8
121	30.6	25.0	37.6





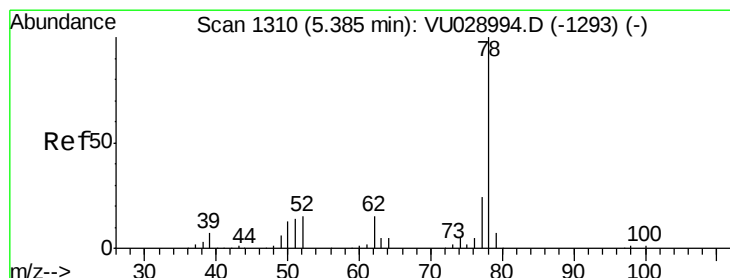
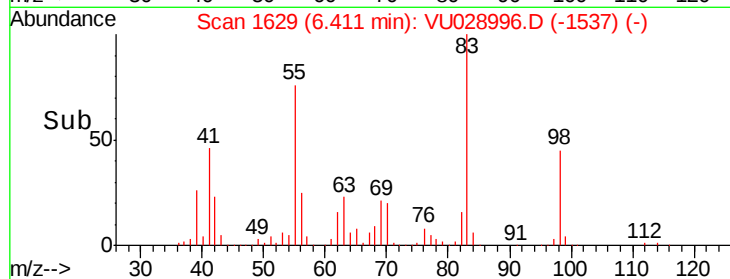
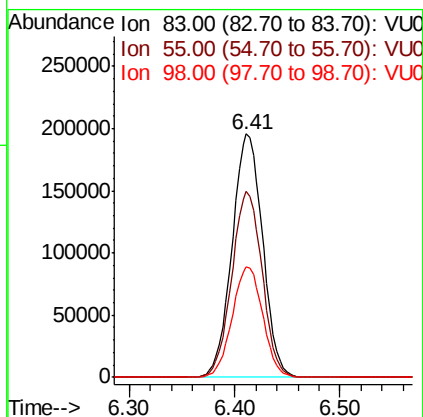
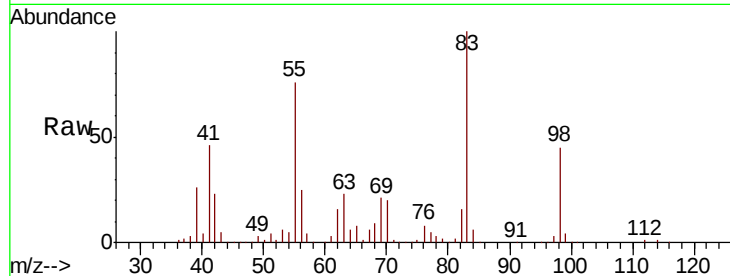
#39
Methylcyclohexane
Concen: 151.181 ug/l
RT: 6.41 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
83	100		
55	76.2	62.4	93.6
98	45.5	36.2	54.2

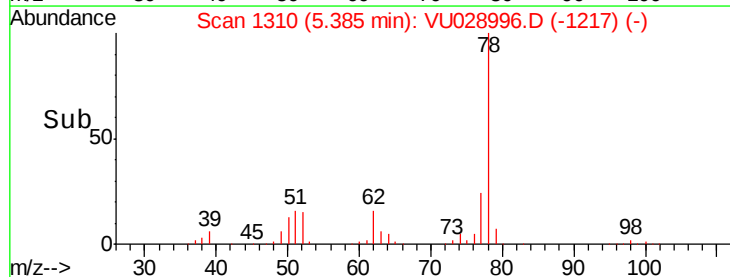
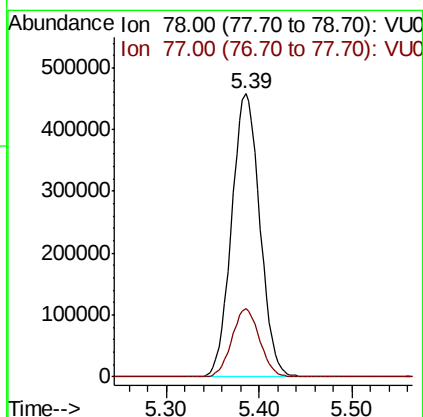
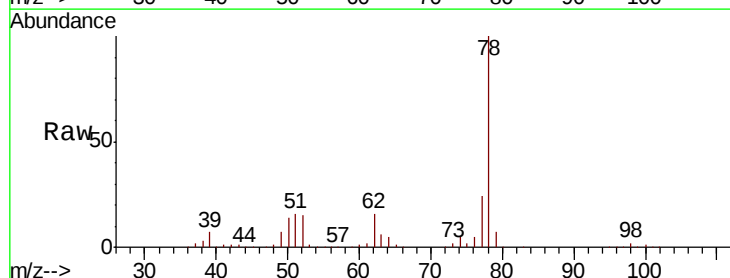
Manual Integrations
APPROVED

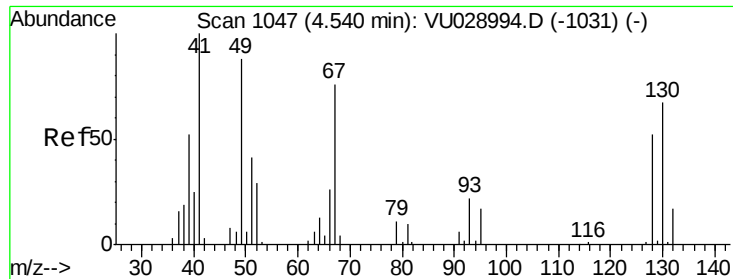
MMDadoda
1/4/2019 9:51:04 AM



#40
Benzene
Concen: 146.964 ug/l
RT: 5.39 min Scan# 1310
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.9	28.3





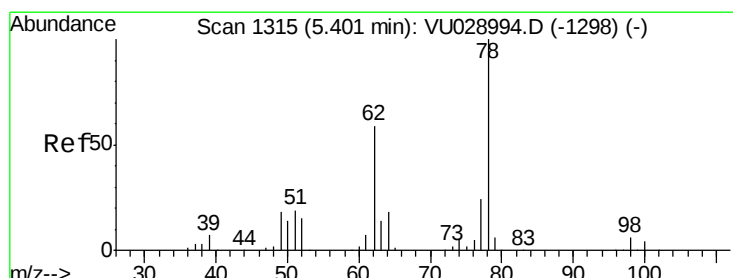
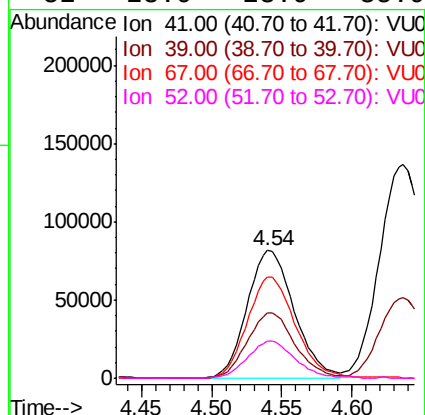
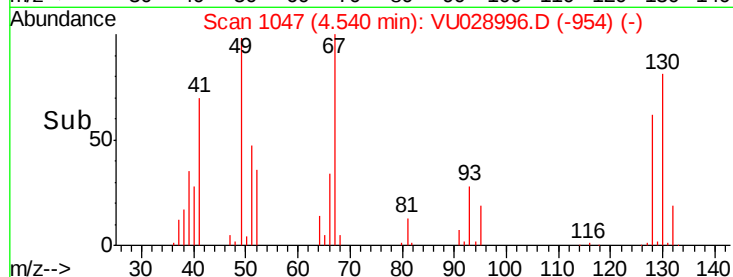
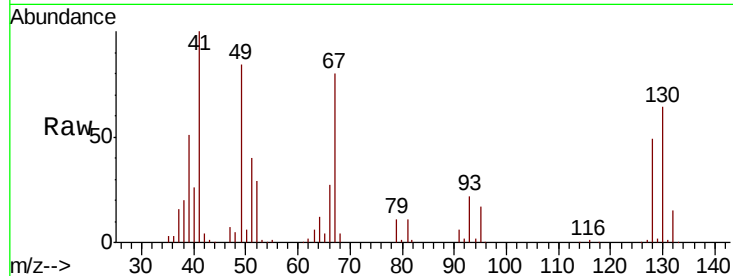
#41
Methacrylonitrile
Concen: 154.440 ug/l
RT: 4.54 min Scan# 1047
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	51.8	42.3	63.5	
67	80.3	64.4	96.6	
52	28.9	23.9	35.9	

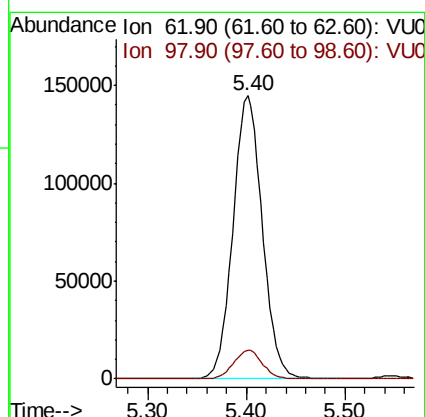
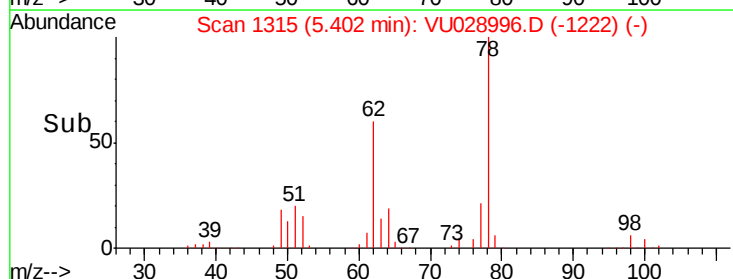
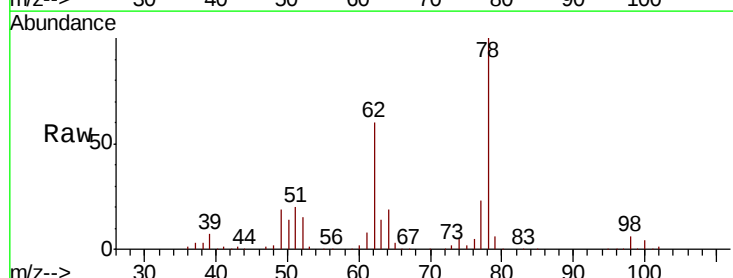
Manual Integrations
APPROVED

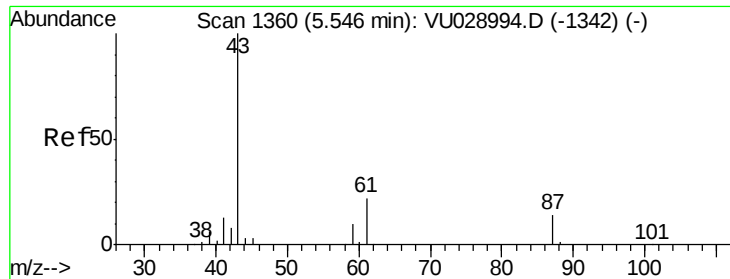
MMDadoda
1/4/2019 9:51:04 AM



#42
1,2-Dichloroethane
Concen: 151.216 ug/l
RT: 5.40 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.0	0.0	19.6	





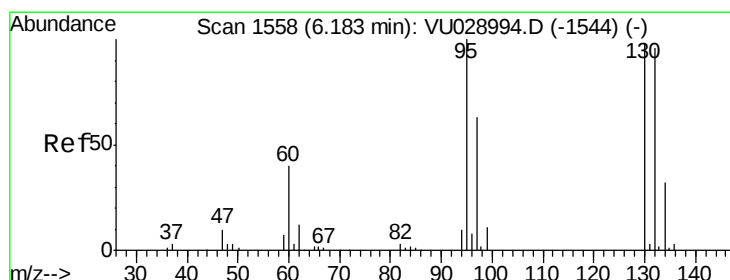
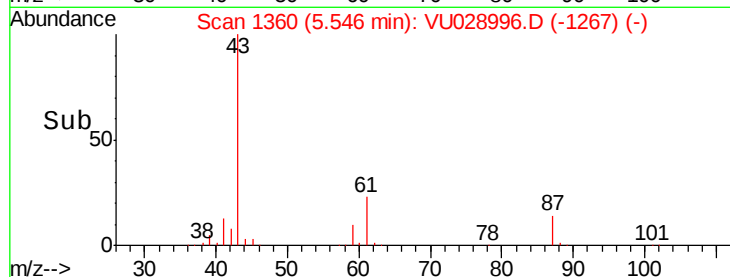
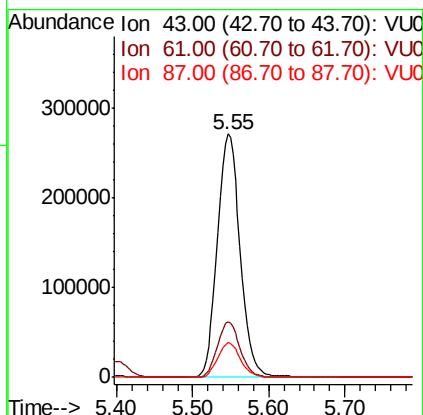
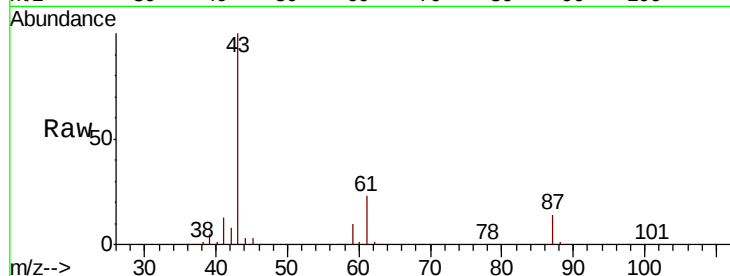
#43
Isopropyl Acetate
Concen: 157.943 ug/l
RT: 5.55 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
43	100		
61	22.7	17.8	26.6
87	14.2	11.3	16.9

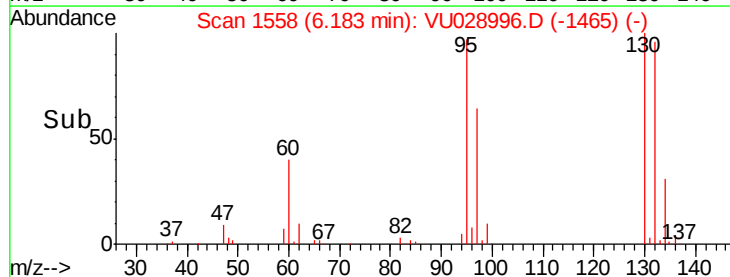
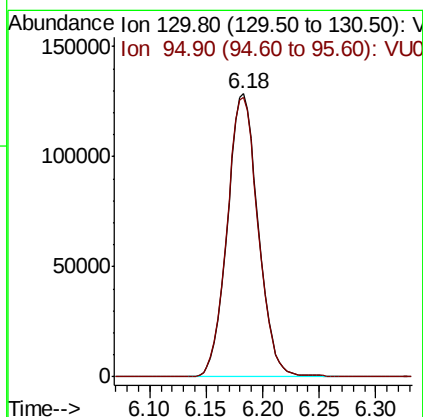
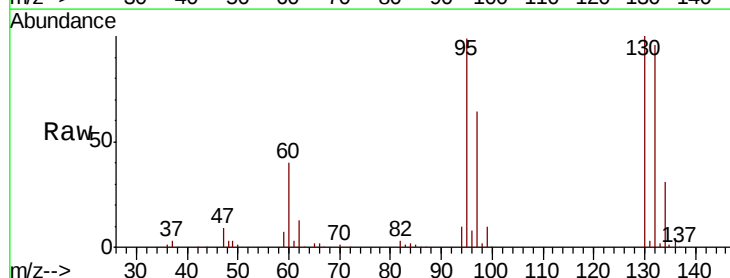
Manual Integrations
APPROVED

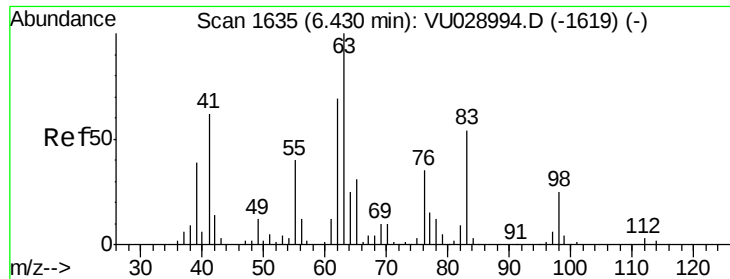
MMDadoda
1/4/2019 9:51:04 AM



#44
Trichloroethene
Concen: 149.580 ug/l
RT: 6.18 min Scan# 1558
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.9	0.0	205.0





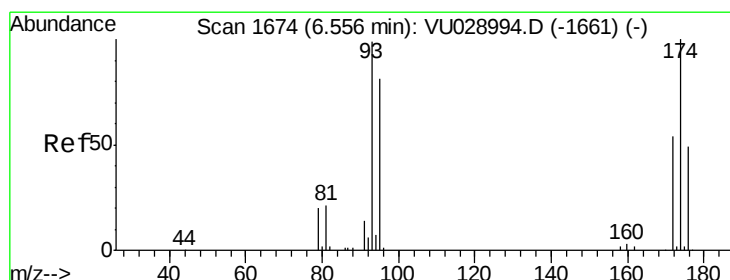
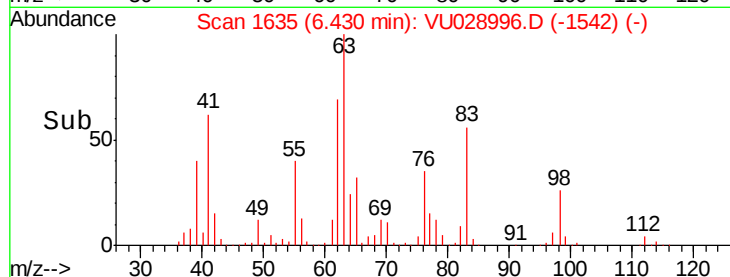
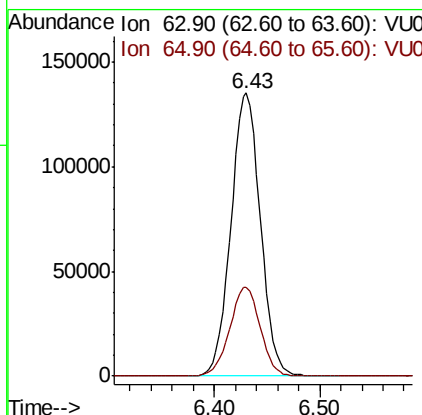
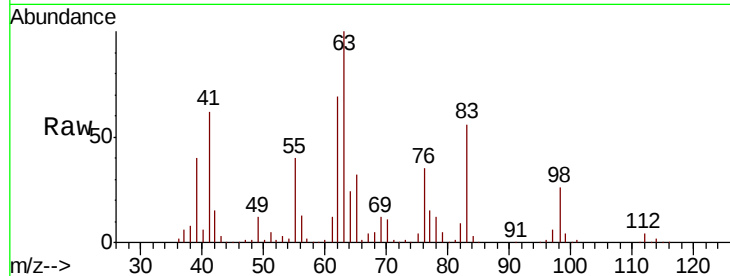
#45
 1,2-Dichloropropane
 Concen: 149.984 ug/l
 RT: 6.43 min Scan# 1635
 Delta R.T. 0.00 min
 Lab File: VU028996.D
 Acq: 03 Jan 2019 14:42

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC150

Tgt Ion: 63 Resp: 260699
 Ion Ratio Lower Upper
 63 100
 65 31.6 25.1 37.7

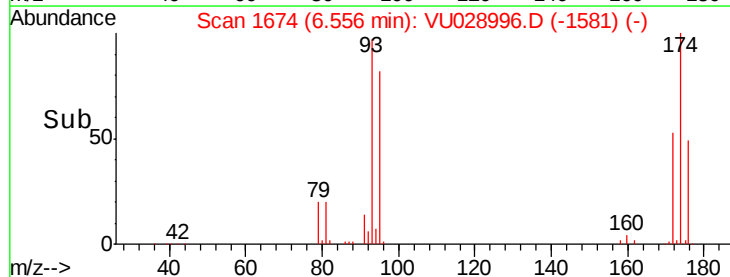
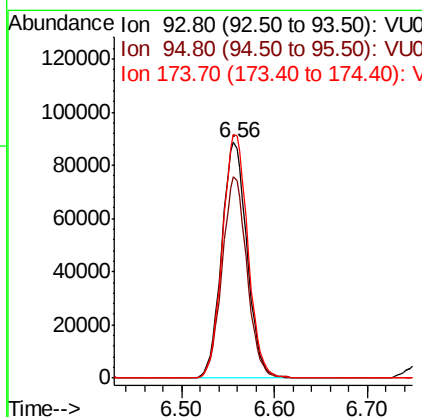
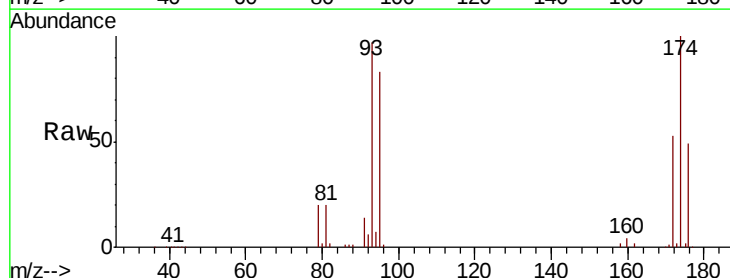
Manual Integrations
 APPROVED

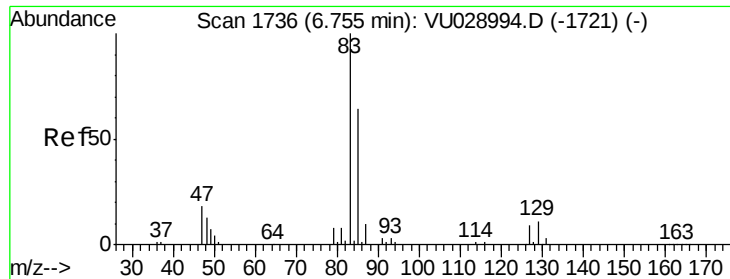
MMDadoda
 1/4/2019 9:51:04 AM



#46
 Dibromomethane
 Concen: 150.788 ug/l
 RT: 6.56 min Scan# 1674
 Delta R.T. 0.00 min
 Lab File: VU028996.D
 Acq: 03 Jan 2019 14:42

Tgt Ion: 93 Resp: 167548
 Ion Ratio Lower Upper
 93 100
 95 83.9 67.2 100.8
 174 103.8 82.6 123.8





#47

Bromodichloromethane

Concen: 153.939 ug/l

RT: 6.76 min Scan# 1736

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

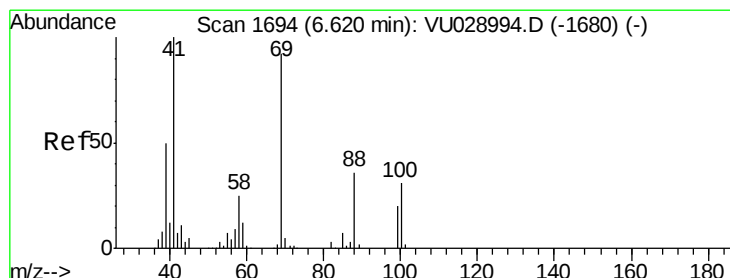
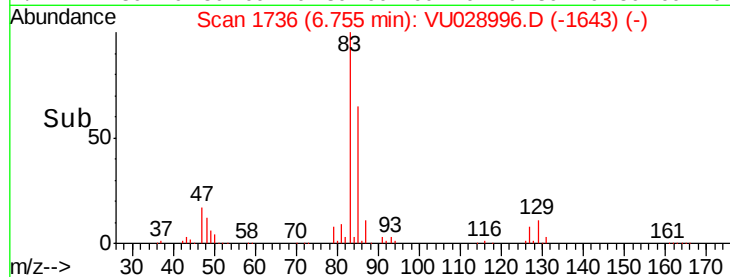
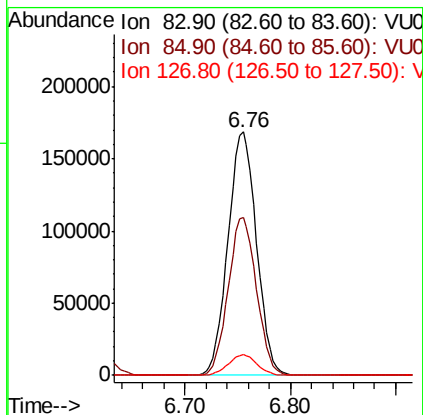
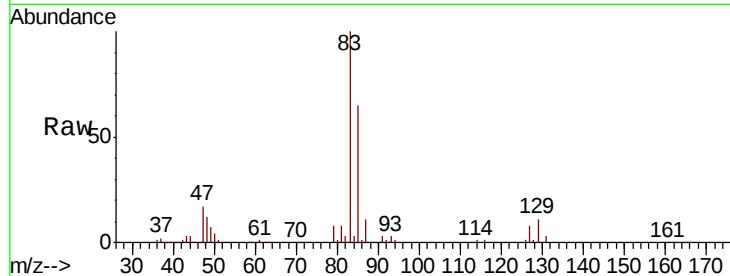
ClientSampleId :

VSTDIC150

Tgt Ion:	83	Resp:	314931
Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.4	77.2
127	8.4	7.0	10.4

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:51:04 AM



#48

Methyl methacrylate

Concen: 164.349 ug/l

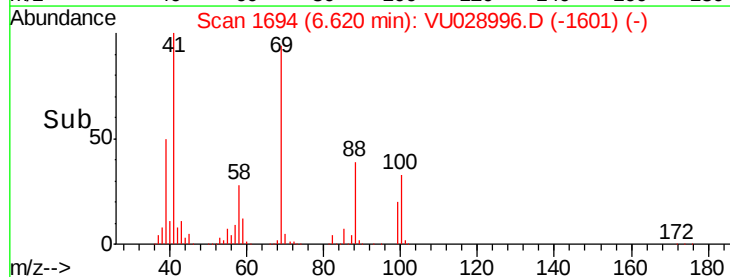
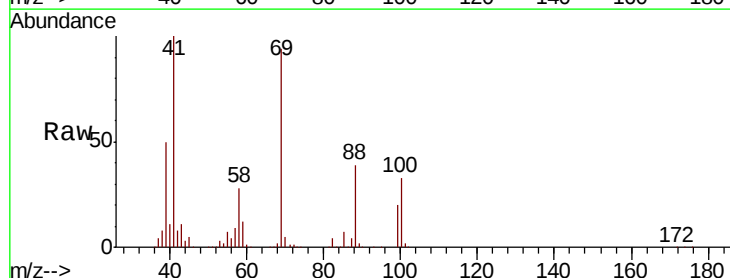
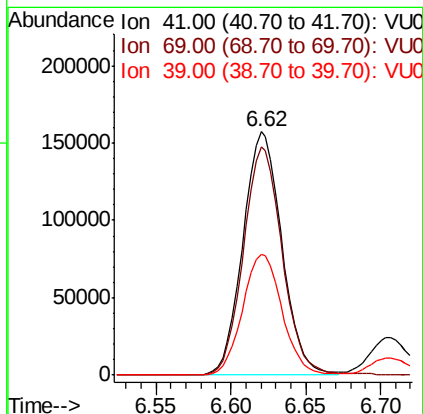
RT: 6.62 min Scan# 1694

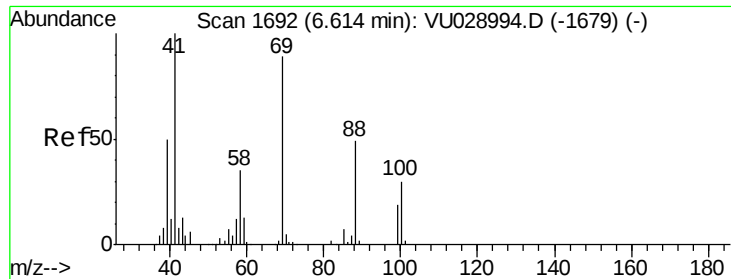
Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Tgt Ion:	41	Resp:	284335
Ion	Ratio	Lower	Upper
41	100		
69	94.1	73.6	110.4
39	50.2	39.6	59.4





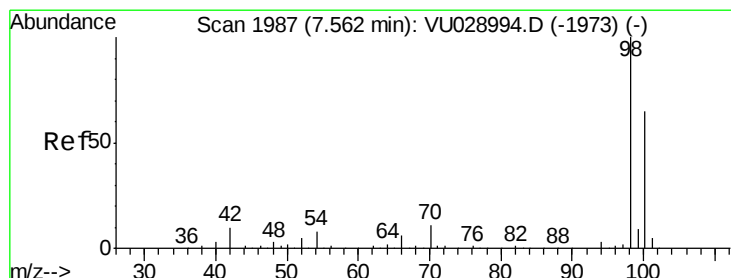
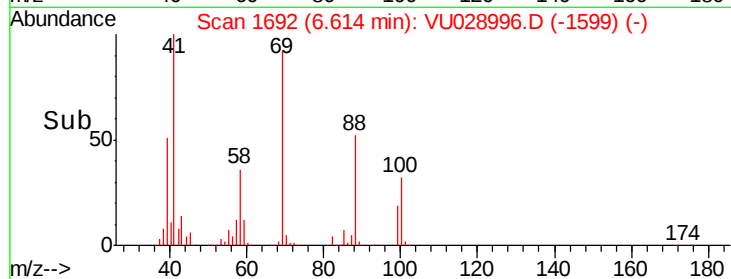
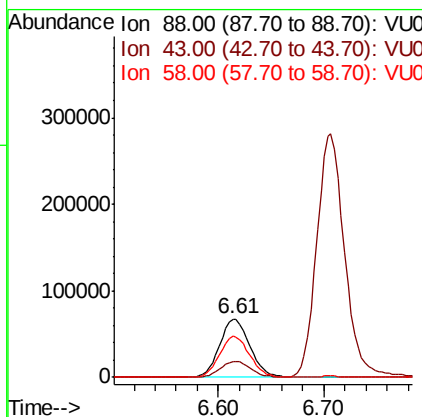
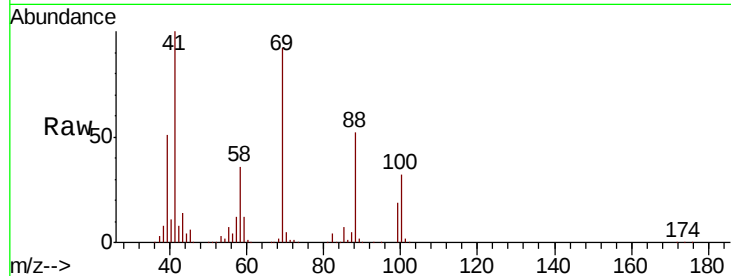
#49
1,4-Dioxane
Concen: 3214.501 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
88	100		
43	28.7	23.0	34.4
58	70.7	57.9	86.9

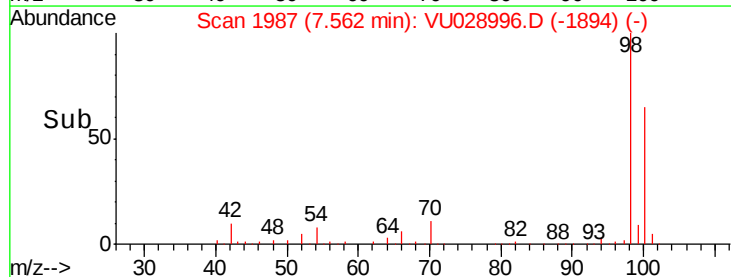
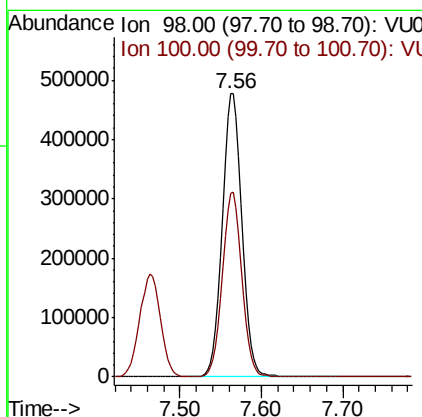
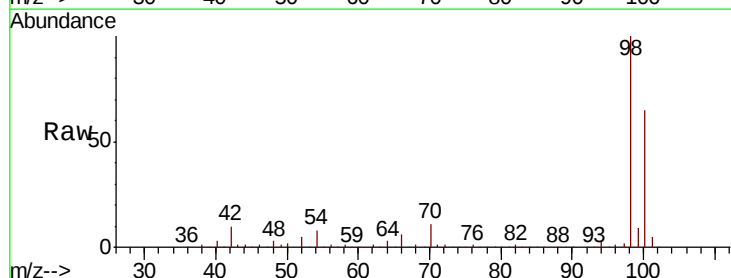
Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:51:04 AM



#50
Toluene-d8
Concen: 151.378 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 803.931 ug/l

RT: 7.46 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 1943943

Ion Ratio Lower Upper

43 100

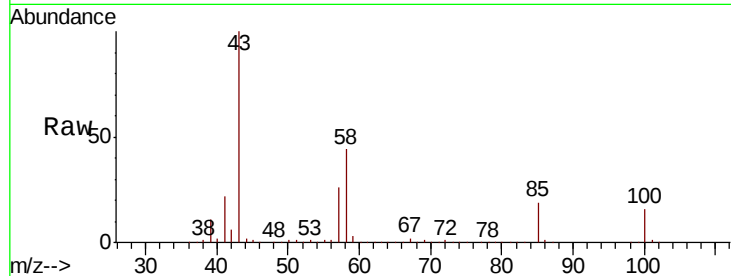
58 43.3 33.9 50.9

Manual Integrations

APPROVED

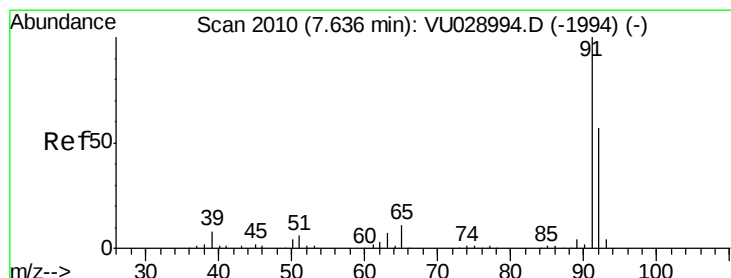
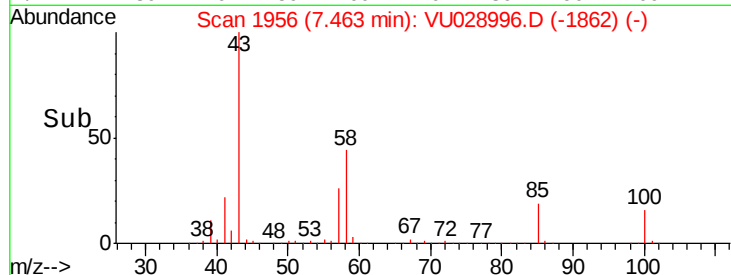
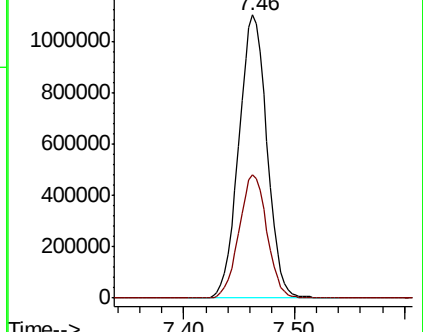
MMDadoda

1/4/2019 9:51:04 AM



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028994.D (-1939) (-)



#52

Toluene

Concen: 153.156 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028996.D

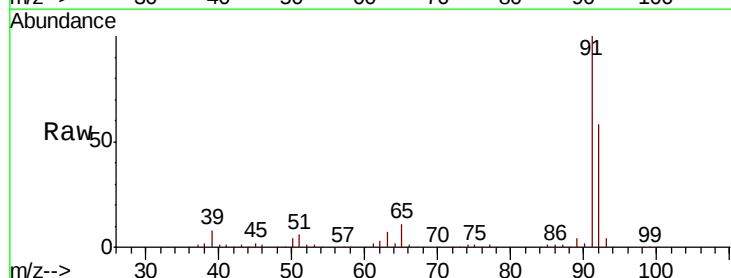
Acq: 03 Jan 2019 14:42

Tgt Ion: 92 Resp: 613692

Ion Ratio Lower Upper

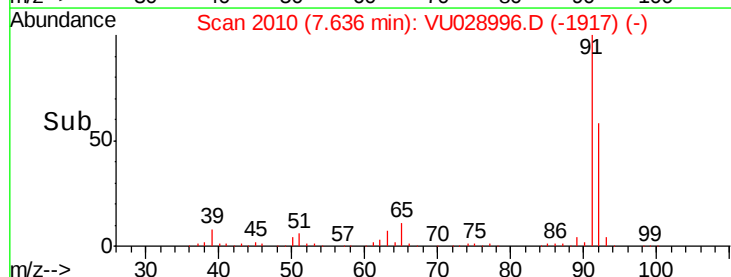
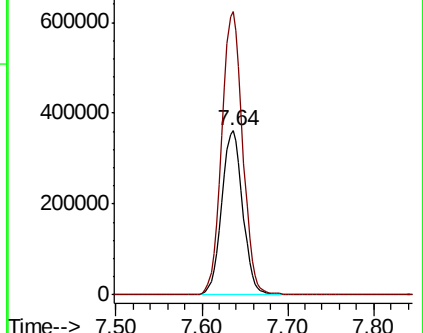
92 100

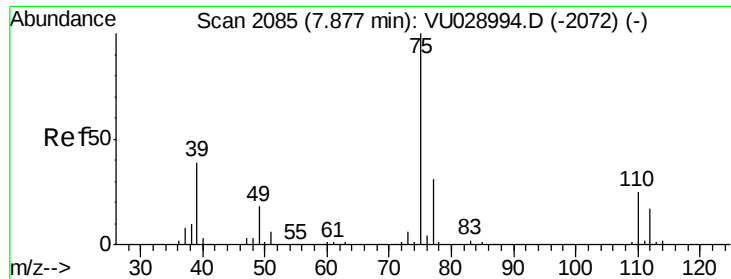
91 172.4 139.8 209.8



Abundance Ion 92.00 (91.70 to 92.70): VU028994.D (-1994) (-)

Ion 91.00 (90.70 to 91.70): VU028994.D (-1994) (-)





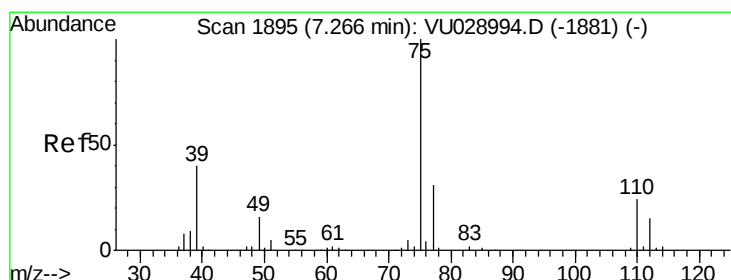
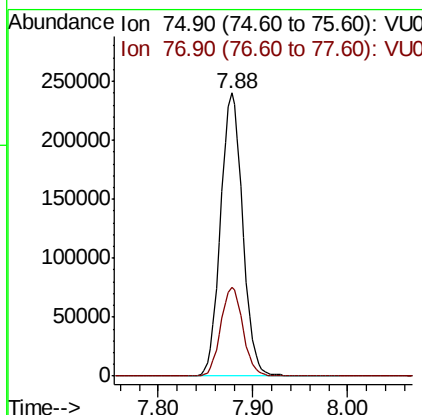
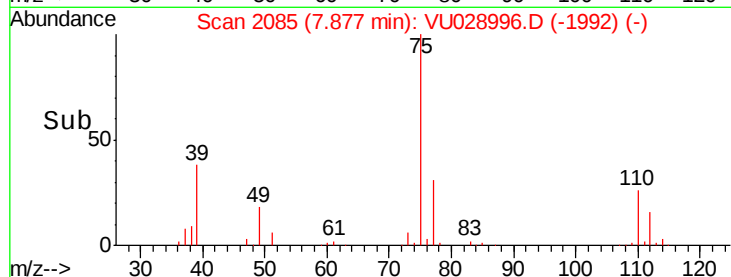
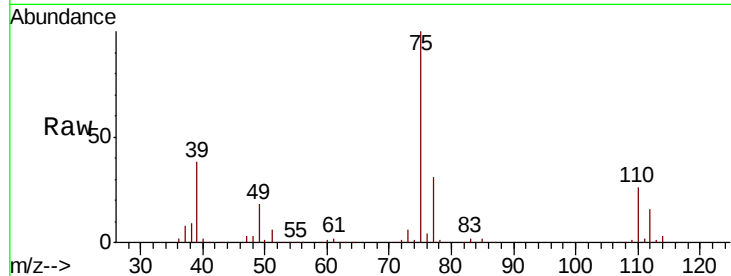
#53
t-1,3-Dichloropropene
Concen: 158.785 ug/l
RT: 7.88 min Scan# 2085
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion: 75 Resp: 390226
Ion Ratio Lower Upper
75 100
77 31.4 25.0 37.4

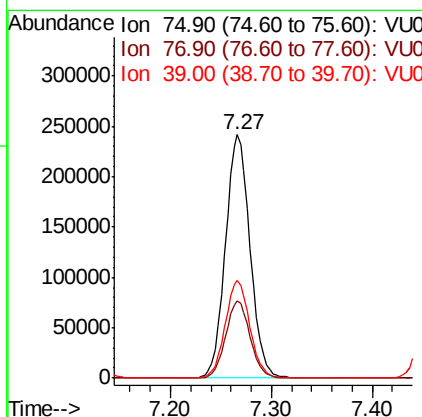
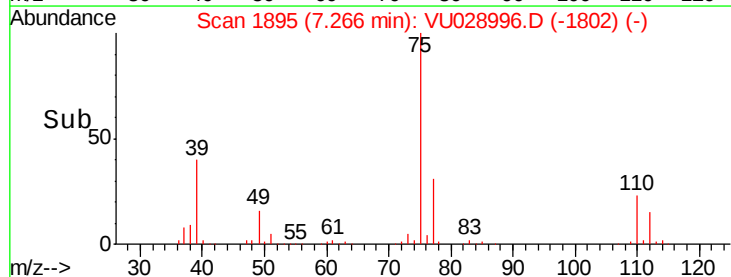
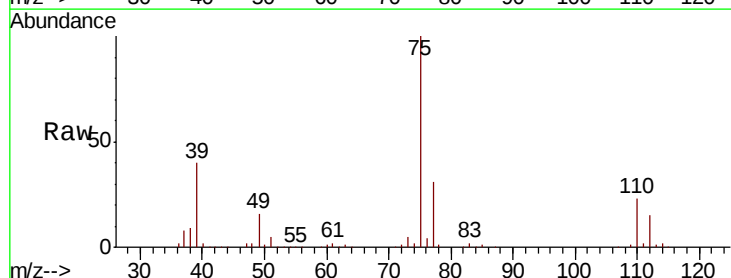
Manual Integrations
APPROVED

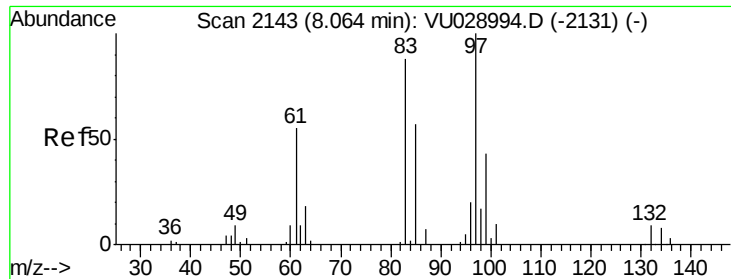
MMDadoda
1/4/2019 9:51:04 AM



#54
cis-1,3-Dichloropropene
Concen: 154.964 ug/l
RT: 7.27 min Scan# 1895
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion: 75 Resp: 411514
Ion Ratio Lower Upper
75 100
77 31.5 25.0 37.6
39 40.1 32.2 48.4





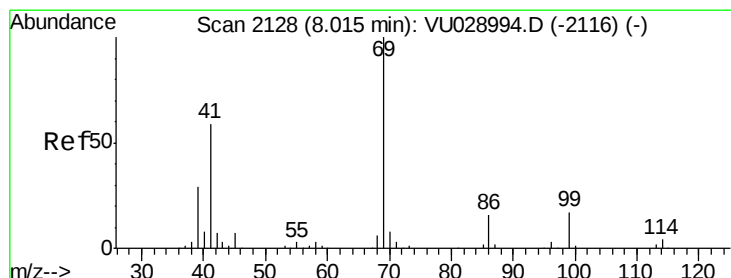
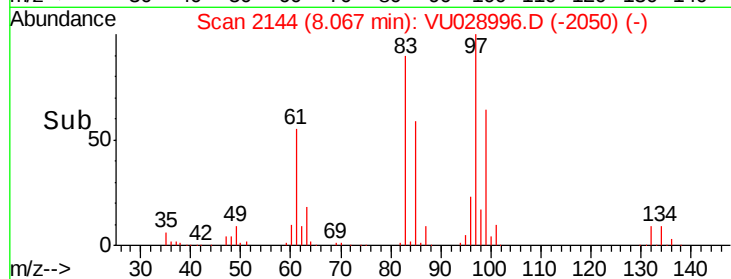
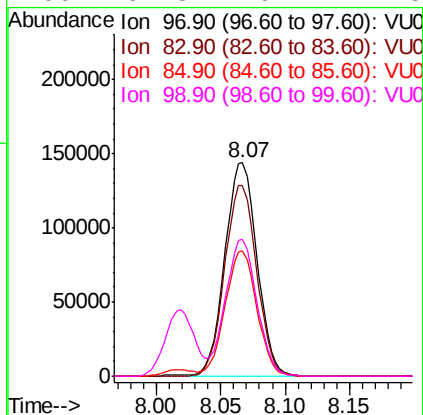
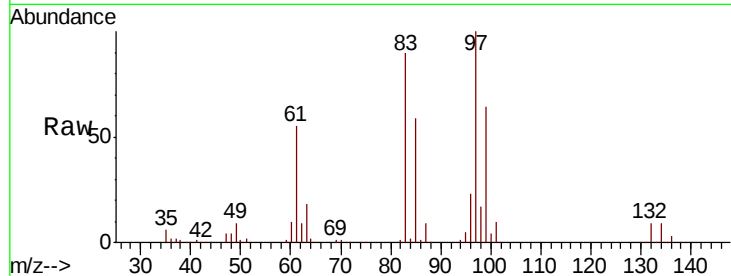
#55
1,1,2-Trichloroethane
Concen: 155.015 ug/l
RT: 8.07 min Scan# 2144
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	248837		
83	89.6	69.8	104.8	
85	58.6	47.3	70.9	
99	64.3	49.7	74.5	

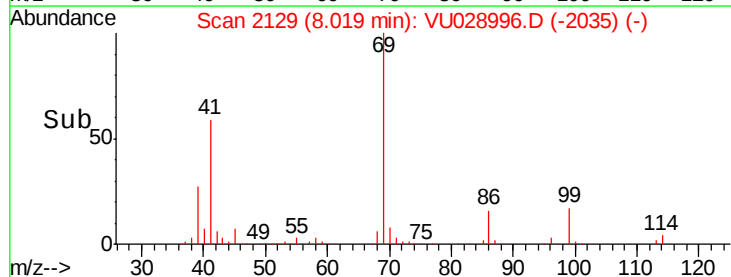
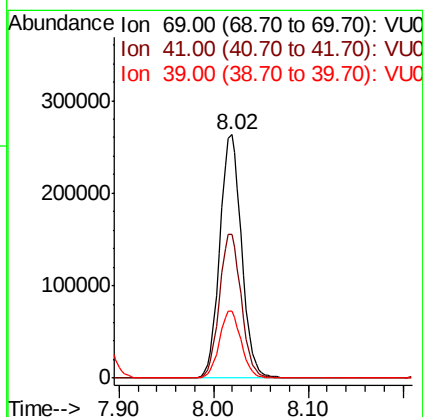
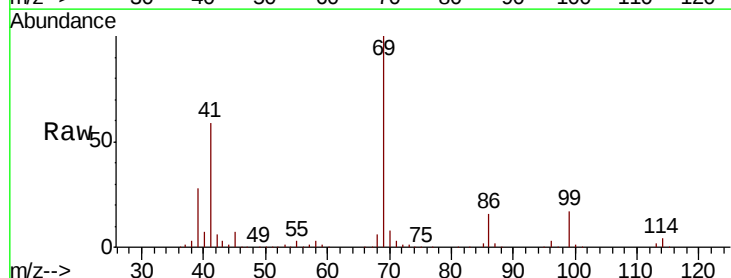
Manual Integrations
APPROVED

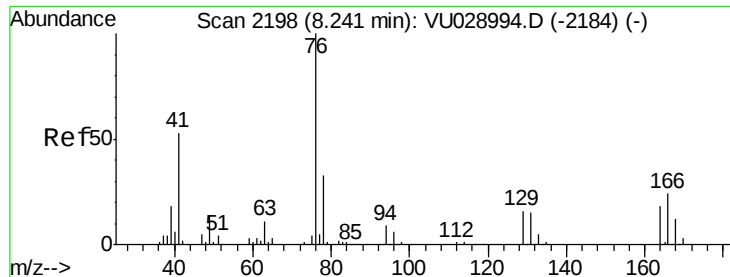
MMDadoda
1/4/2019 9:51:04 AM



#56
Ethyl methacrylate
Concen: 170.018 ug/l
RT: 8.02 min Scan# 2129
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	420465		
41	59.5	47.5	71.3	
39	27.5	22.5	33.7	





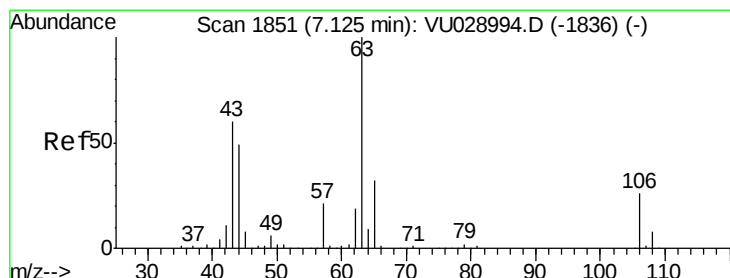
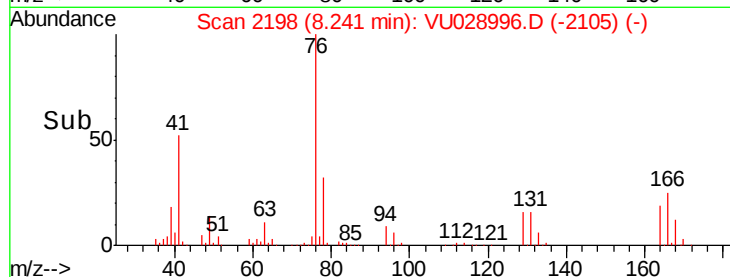
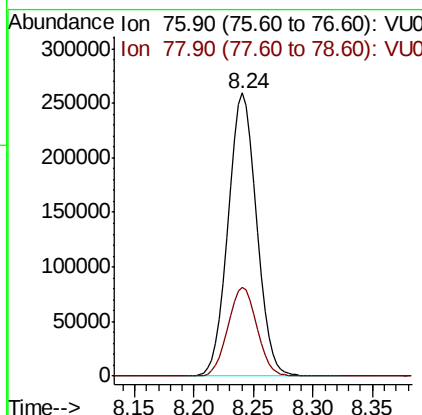
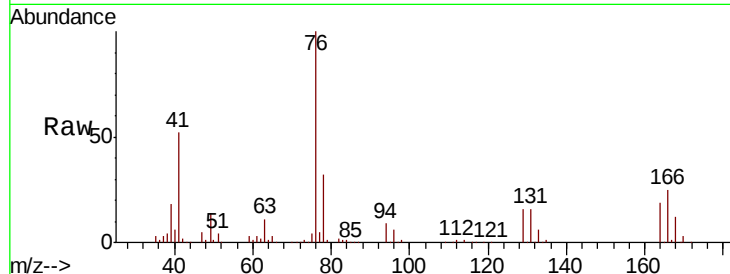
#57
 1,3-Dichloropropane
 Concen: 156.461 ug/l
 RT: 8.24 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU028996.D
 Acq: 03 Jan 2019 14:42

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC150

Tgt Ion: 76 Resp: 429761
 Ion Ratio Lower Upper
 76 100
 78 32.1 26.0 39.0

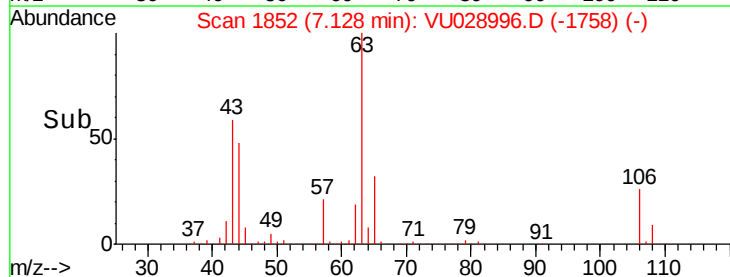
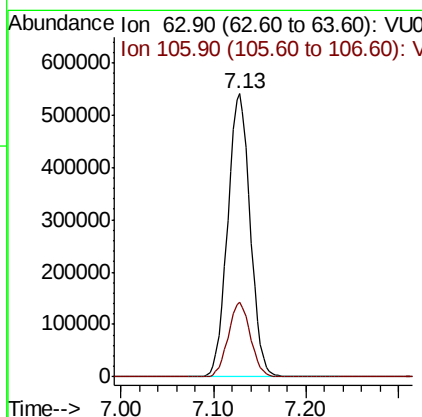
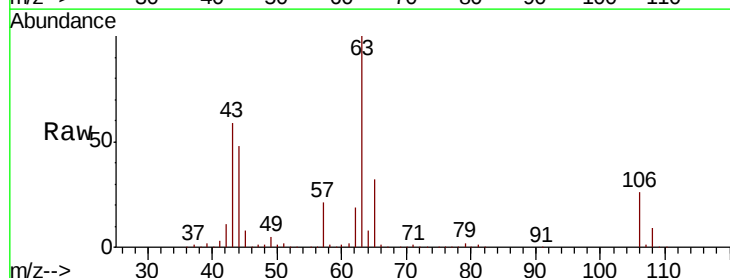
Manual Integrations
 APPROVED

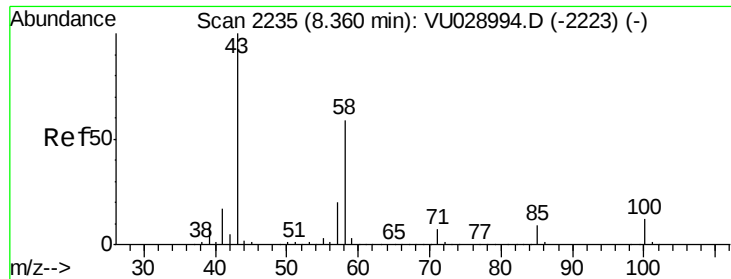
MMDadoda
 1/4/2019 9:51:04 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 836.708 ug/l
 RT: 7.13 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VU028996.D
 Acq: 03 Jan 2019 14:42

Tgt Ion: 63 Resp: 910009
 Ion Ratio Lower Upper
 63 100
 106 26.0 20.6 31.0





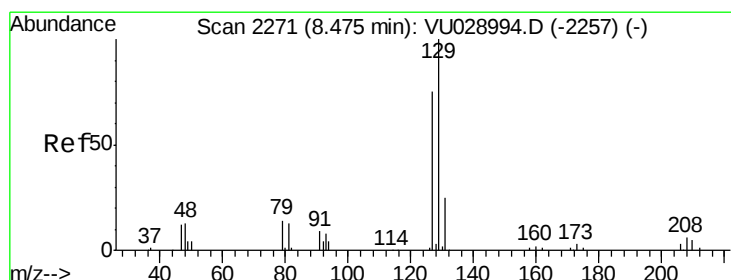
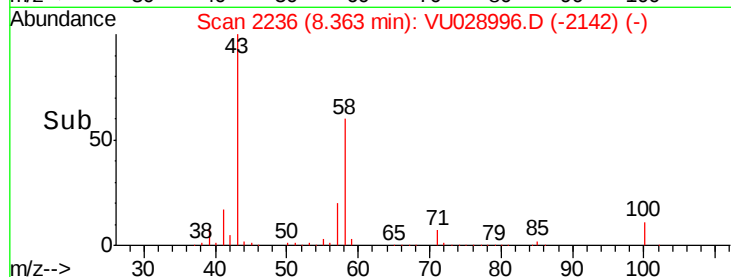
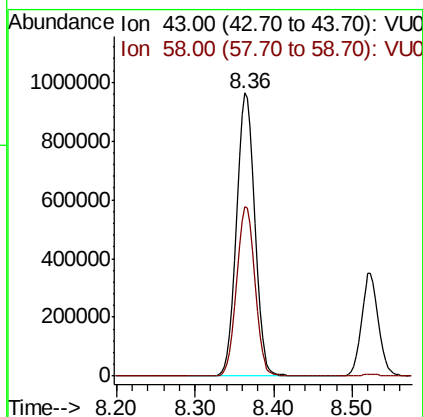
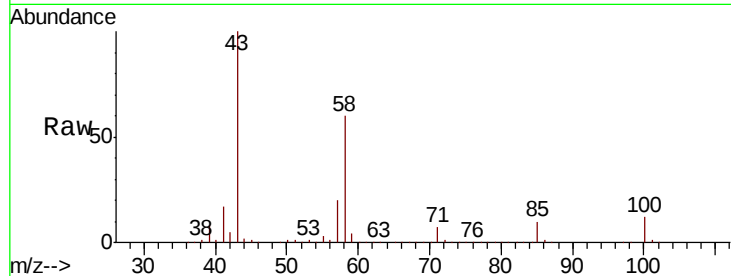
#59
2-Hexanone
Concen: 815.316 ug/l
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion: 43 Resp: 1547535
Ion Ratio Lower Upper
43 100
58 60.3 29.8 89.4

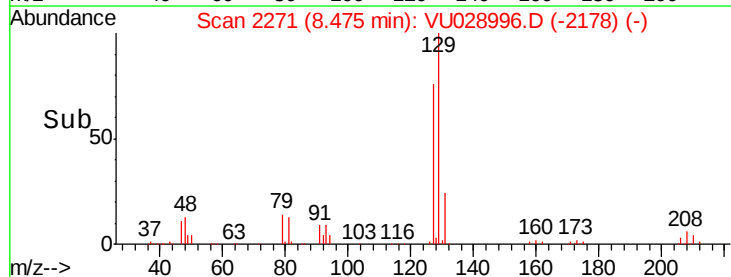
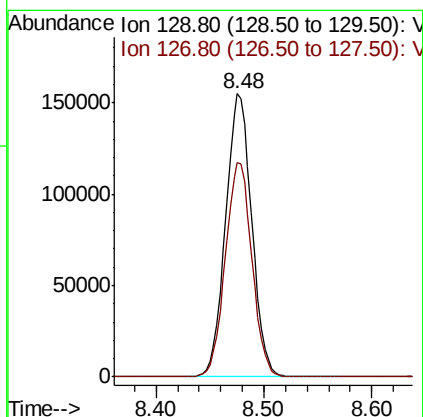
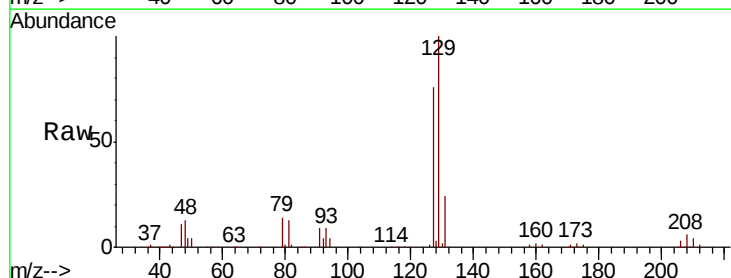
Manual Integrations
APPROVED

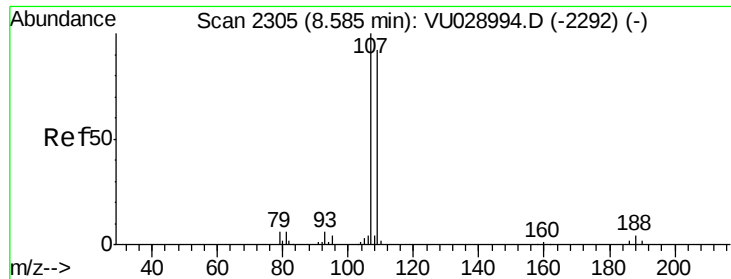
MMDadoda
1/4/2019 9:51:04 AM



#60
Dibromochloromethane
Concen: 164.448 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion: 129 Resp: 261529
Ion Ratio Lower Upper
129 100
127 77.1 38.0 114.0





#61

1,2-Dibromoethane

Concen: 157.324 ug/l

RT: 8.58 min Scan# 2305

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC150

Tgt Ion: 107 Resp: 273898

Ion Ratio Lower Upper

107 100

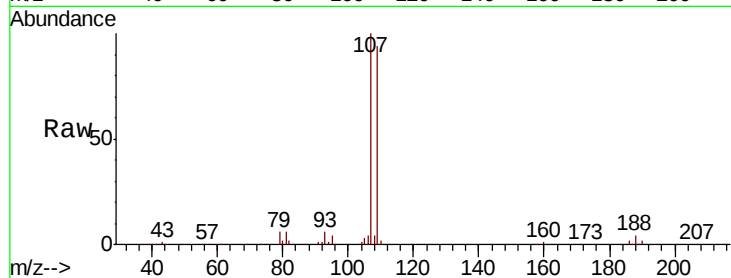
109 95.0 75.5 113.3

Manual Integrations

APPROVED

MMDadoda

1/4/2019 9:51:04 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.58

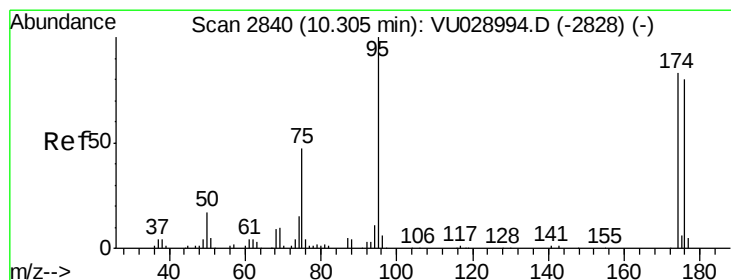
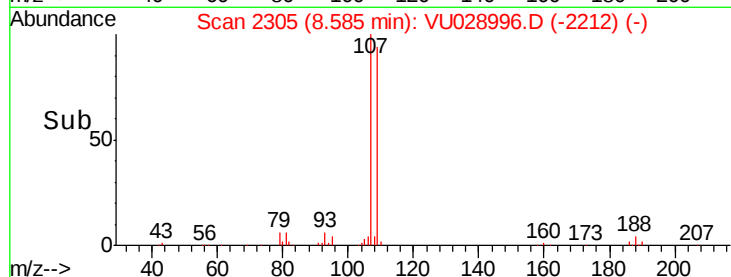
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 164.369 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

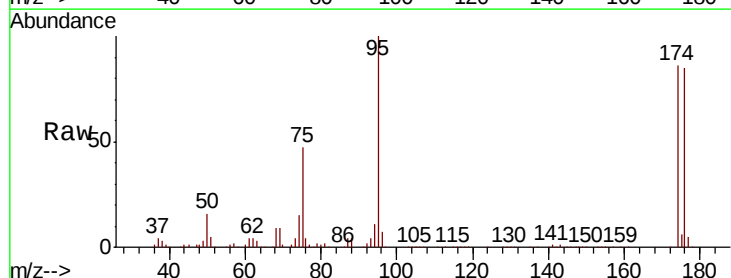
Tgt Ion: 95 Resp: 319134

Ion Ratio Lower Upper

95 100

174 86.1 0.0 170.6

176 83.4 0.0 165.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

250000

200000

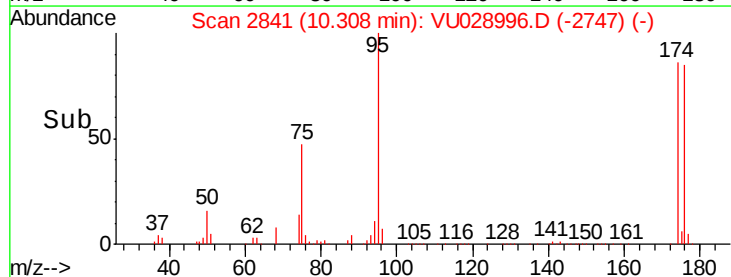
150000

100000

50000

0

Time-->





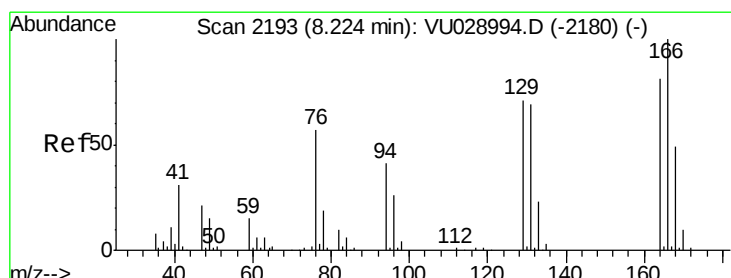
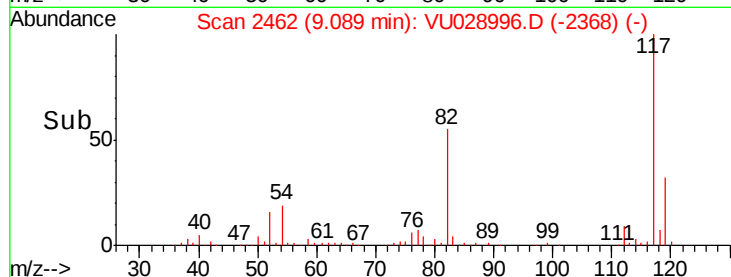
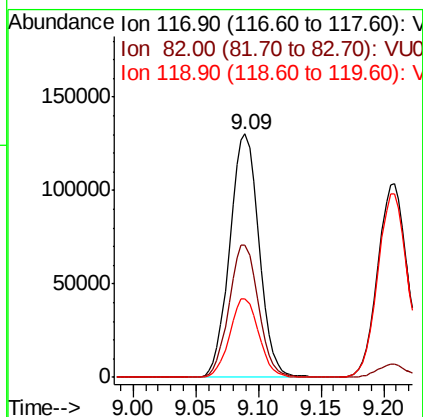
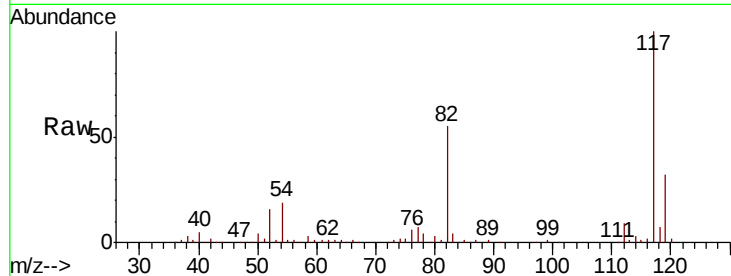
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	211745		
82	54.5	43.9	65.9	
119	32.5	26.0	39.0	

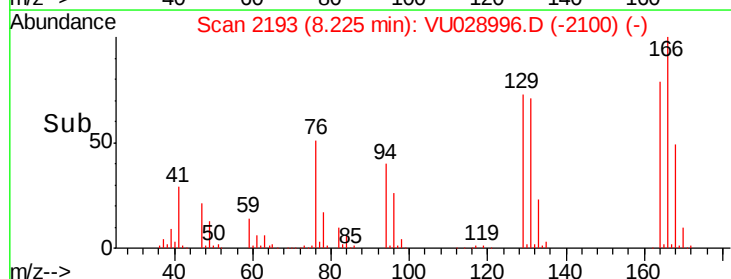
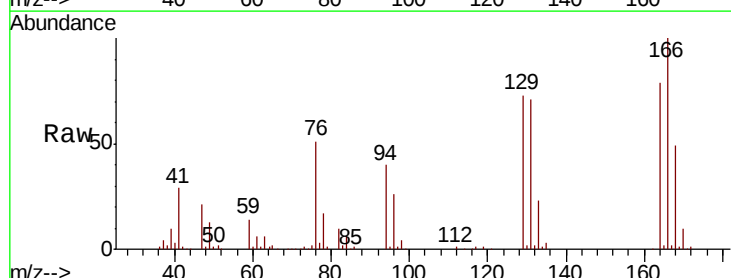
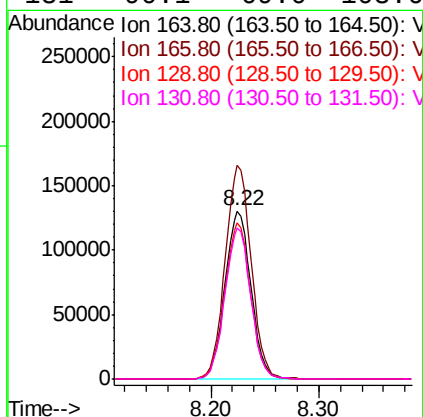
Manual Integrations
APPROVED

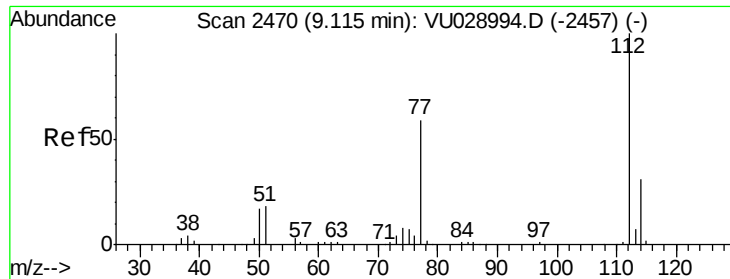
MMDadoda
1/4/2019 9:51:04 AM



#64
Tetrachloroethene
Concen: 143.186 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	218403		
166	127.3	99.4	149.0	
129	93.5	70.5	105.7	
131	90.1	69.0	103.6	





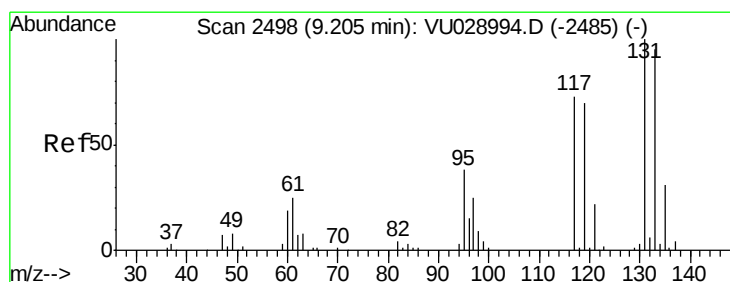
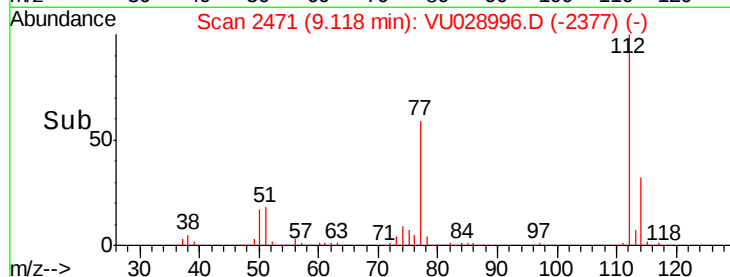
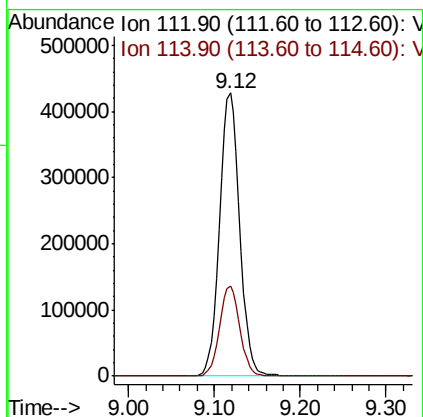
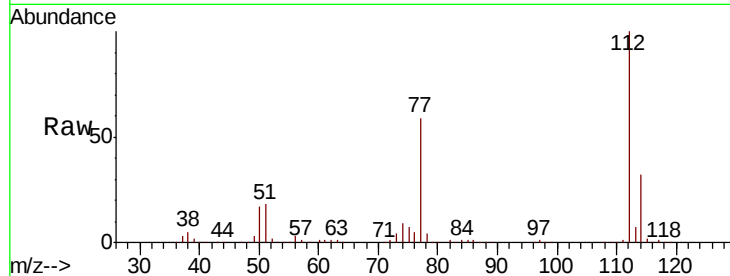
#65
Chlorobenzene
Concen: 146.182 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion:112 Resp: 693831
Ion Ratio Lower Upper
112 100
114 31.8 25.0 37.6

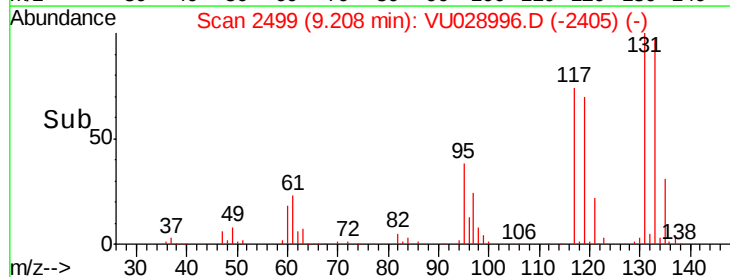
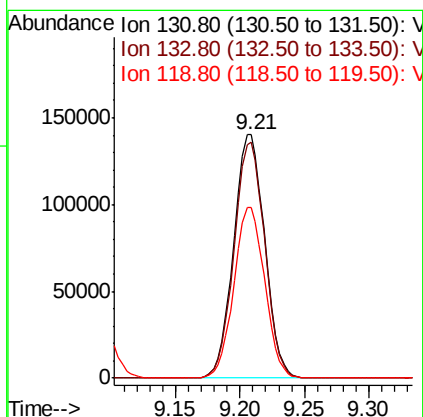
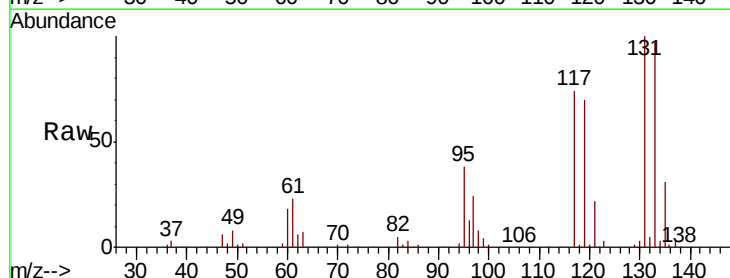
Manual Integrations
APPROVED

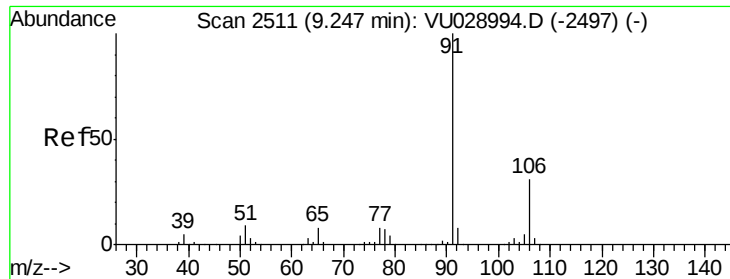
MMDadoda
1/4/2019 9:51:04 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 152.429 ug/l
RT: 9.21 min Scan# 2499
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion:131 Resp: 234786
Ion Ratio Lower Upper
131 100
133 95.8 48.2 144.6
119 69.7 35.4 106.3





#67

Ethyl Benzene

Concen: 151.973 ug/l

RT: 9.25 min Scan# 2511

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 1204278

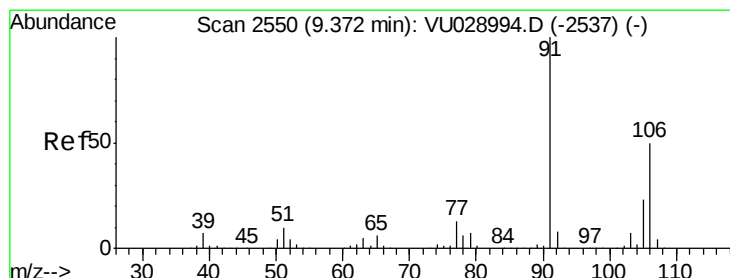
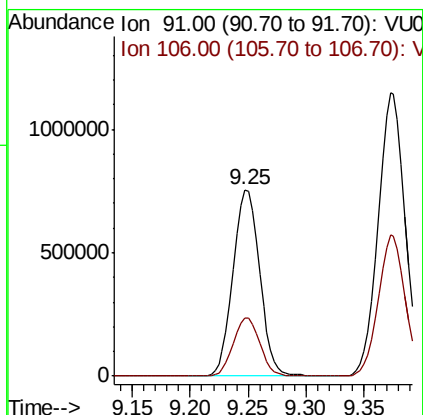
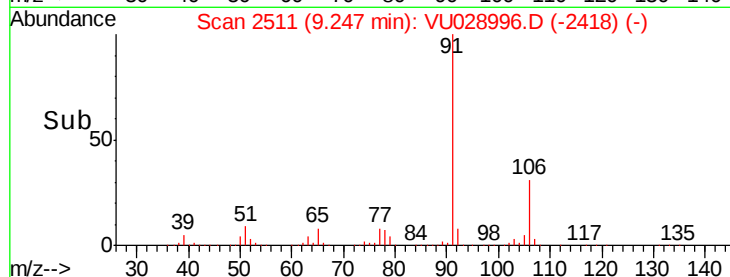
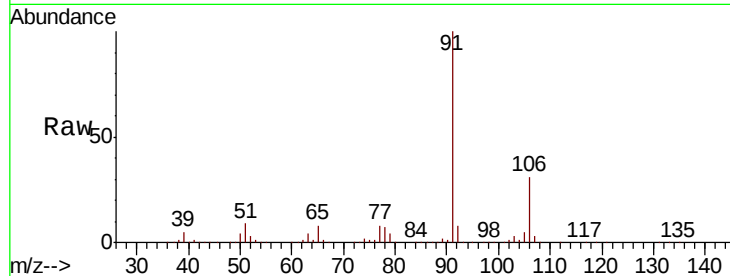
Ion Ratio Lower Upper

91 100

106 31.3 25.0 37.4

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:51:04 AM



#68

m/p-Xylenes

Concen: 303.768 ug/l

RT: 9.37 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VU028996.D

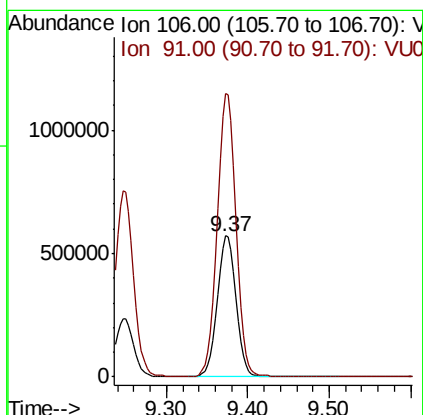
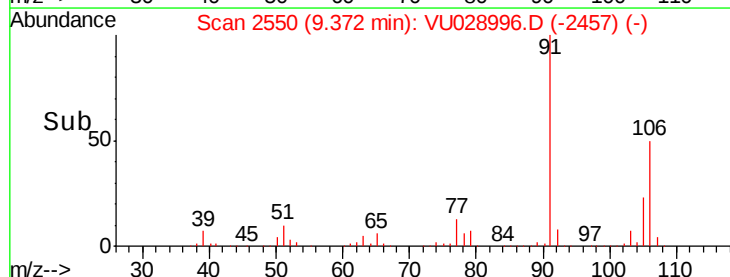
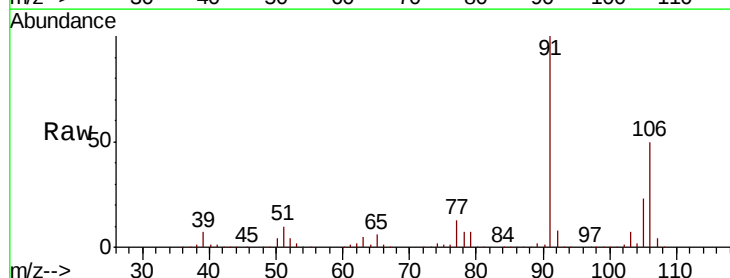
Acq: 03 Jan 2019 14:42

Tgt Ion: 106 Resp: 935293

Ion Ratio Lower Upper

106 100

91 200.9 161.7 242.5





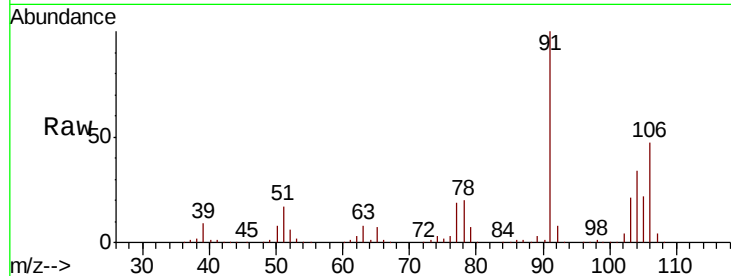
#69
o-Xylene
Concen: 155.157 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

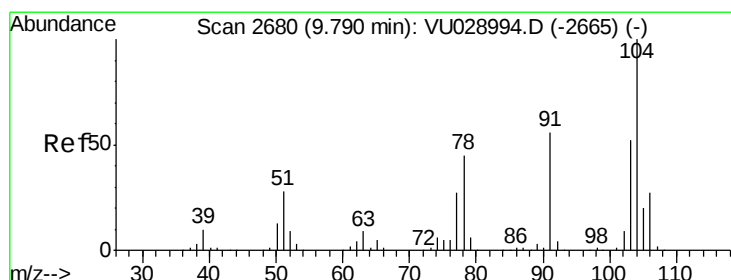
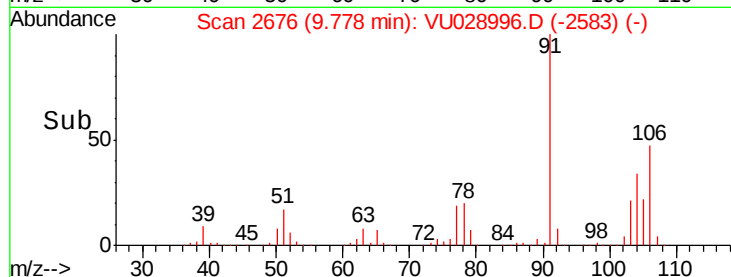
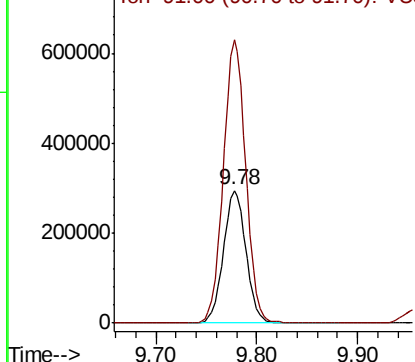
Tgt Ion:106 Resp: 460305
Ion Ratio Lower Upper
106 100
91 212.3 106.1 318.3

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:51:04 AM

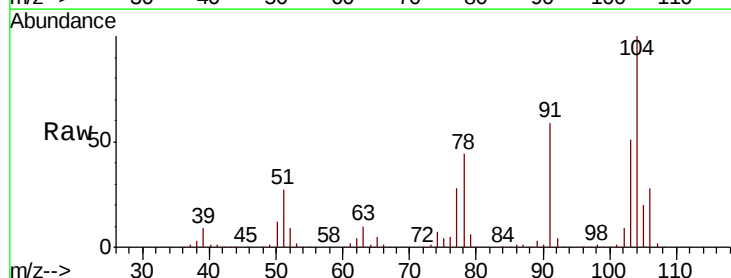


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

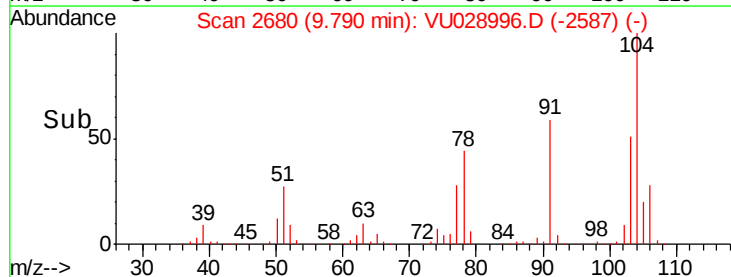
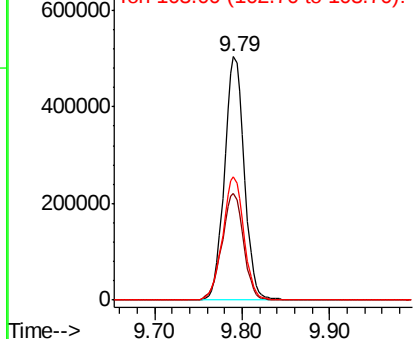


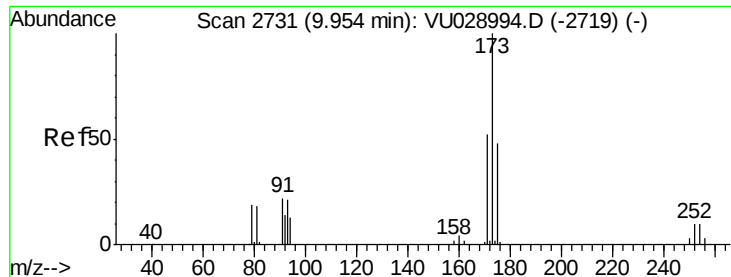
#70
Styrene
Concen: 162.654 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion:104 Resp: 791054
Ion Ratio Lower Upper
104 100
78 47.6 38.6 58.0
103 54.3 44.5 66.7



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 166.600 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC150

Tgt Ion:173 Resp: 228490
Ion Ratio Lower Upper

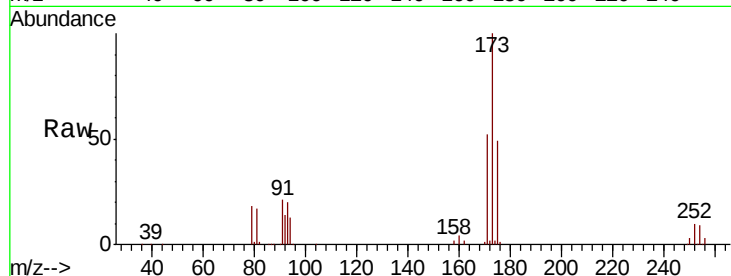
173 100

175 48.7 23.8 71.2

254 0.1 0.0 0.0#

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:51:04 AM

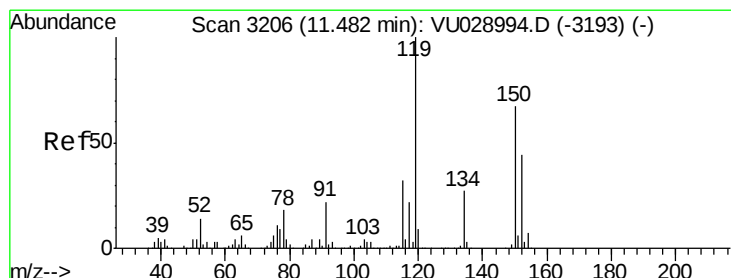
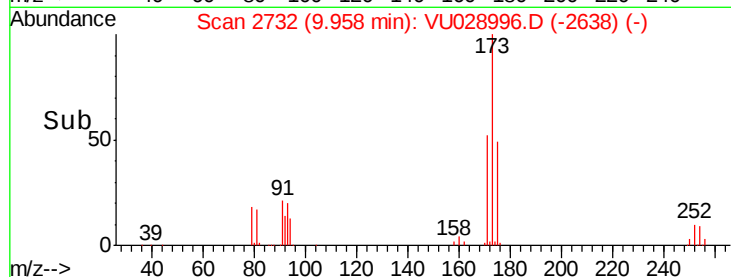


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

150000
100000
50000
0

9.96

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU028996.D

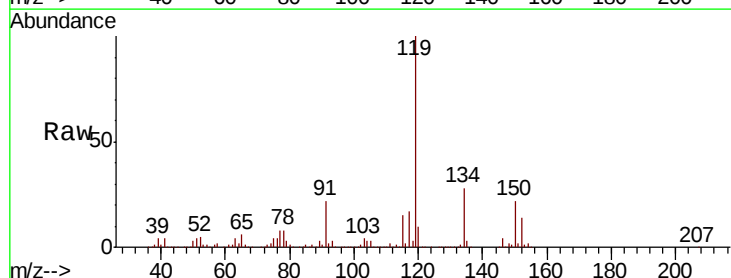
Acq: 03 Jan 2019 14:42

Tgt Ion:152 Resp: 114778
Ion Ratio Lower Upper

152 100

115 126.2 40.1 120.3#

150 209.3 0.0 345.2

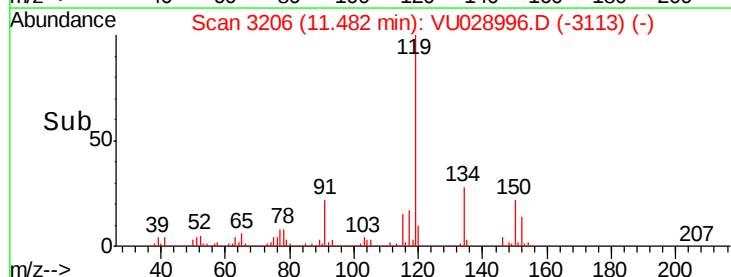


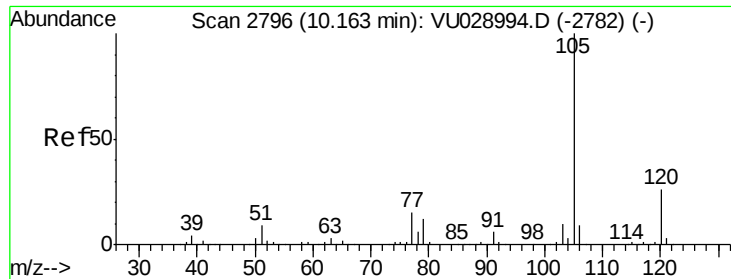
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

150000
100000
50000
0

11.48

Time-->





#73

Isopropylbenzene

Concen: 141.761 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC150

Tgt Ion:105 Resp: 1204344

Ion Ratio Lower Upper

105 100

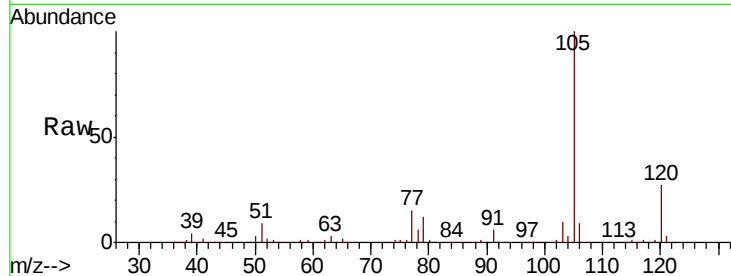
120 26.7 13.2 39.5

Manual Integrations

APPROVED

MMDadoda

1/4/2019 9:51:04 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

800000

600000

400000

200000

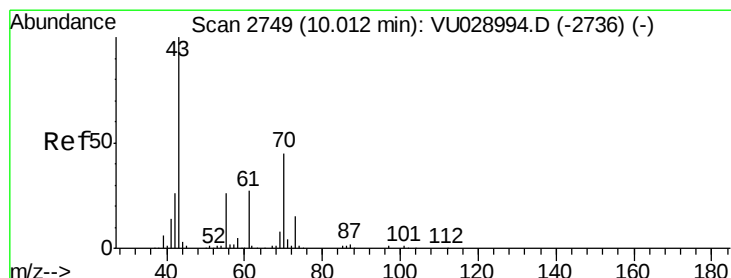
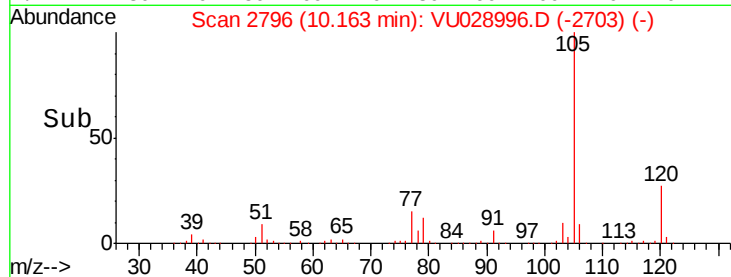
0

10.10

10.20

10.30

Time-->



#74

N-ethyl acetate

Concen: 150.869 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Tgt Ion: 43 Resp: 552310

Ion Ratio Lower Upper

43 100

70 45.9 36.3 54.5

55 25.2 20.5 30.7

61 27.0 21.8 32.8

Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

600000

500000

400000

300000

200000

100000

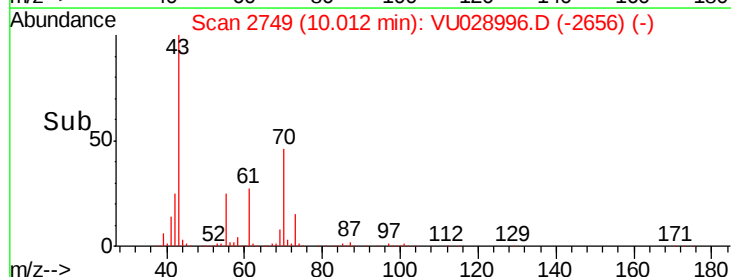
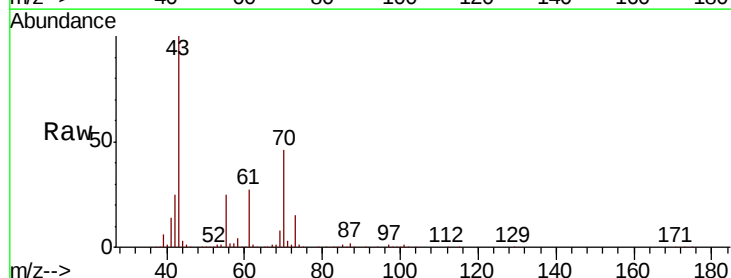
0

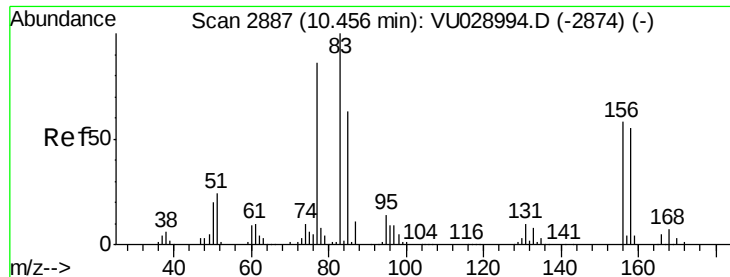
9.90

10.00

10.10

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 140.267 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 477594
Ion Ratio Lower Upper

83 100

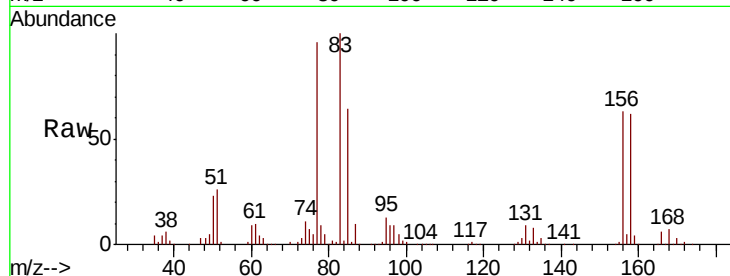
131 8.9 4.7 14.1

85 64.0 32.0 96.2

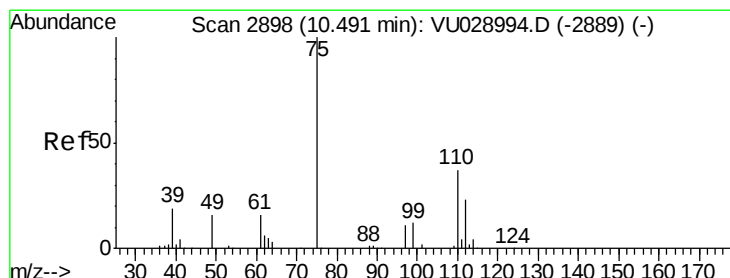
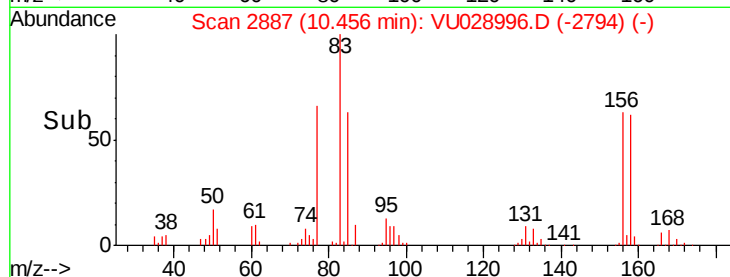
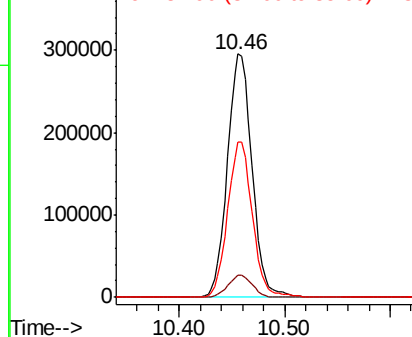
Manual Integrations
APPROVED

MMDadoda

1/4/2019 9:51:04 AM



Abundance Ion 82.90 (82.60 to 83.60): VU0
Ion 130.80 (130.50 to 131.50): VU0
Ion 84.90 (84.60 to 85.60): VU0



#76

1,2,3-Trichloropropane

Concen: 135.204 ug/l m

RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

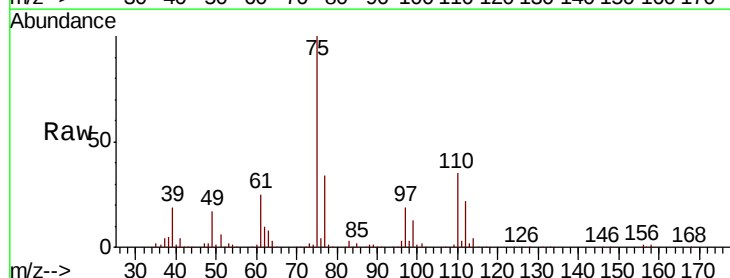
Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

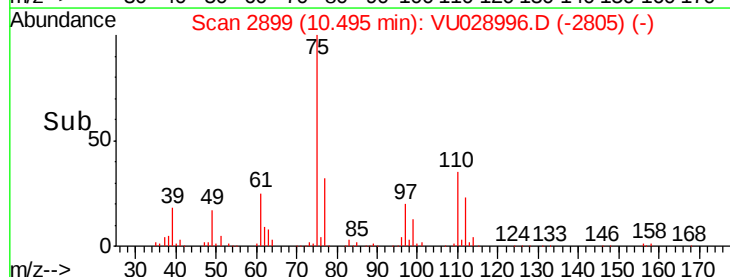
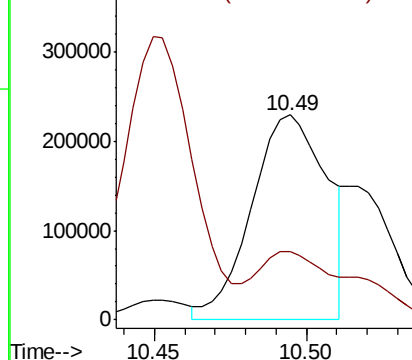
Tgt Ion: 75 Resp: 393854
Ion Ratio Lower Upper

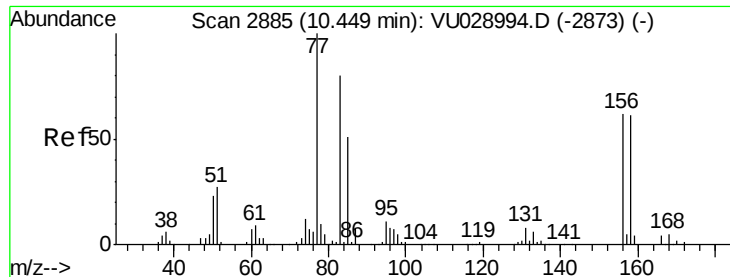
75 100

77 43.8 20.9 62.8



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 77.00 (76.70 to 77.70): VU0





#77

Bromobenzene

Concen: 143.810 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

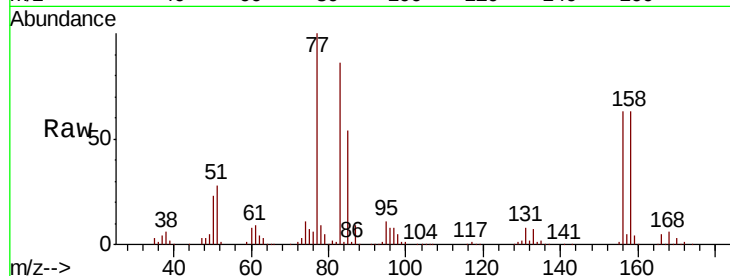
ClientSampleId :

VSTDIC150

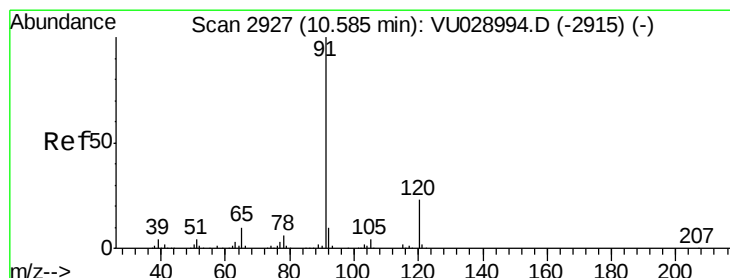
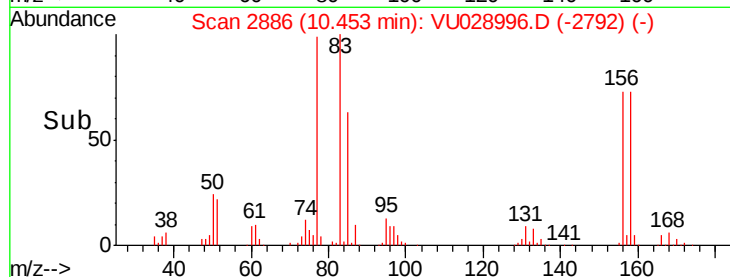
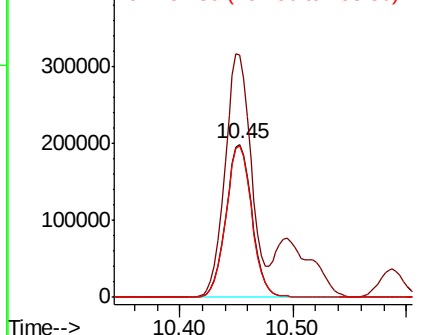
Tgt Ion:	156	Resp:	318387
Ion Ratio	Lower	Upper	
156	100		
77	160.2	79.0	237.2
158	98.2	48.9	146.6

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:51:04 AM



Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VU0
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 147.125 ug/l

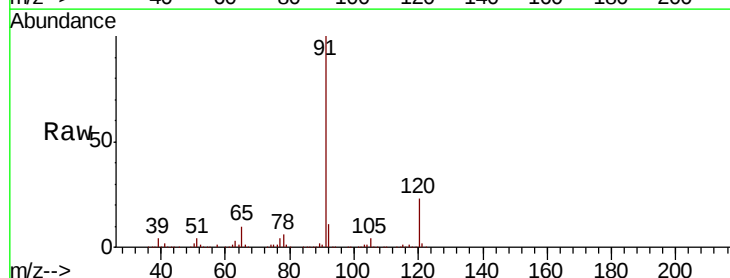
RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

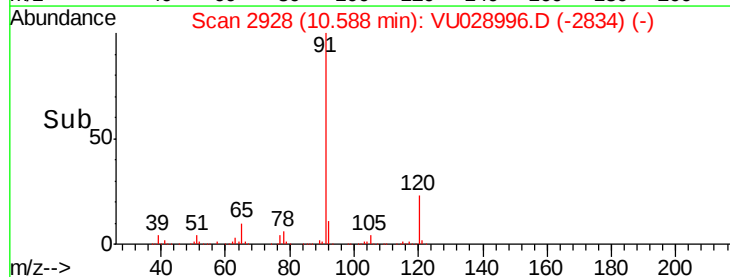
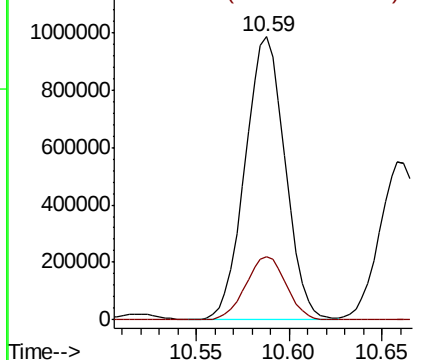
Lab File: VU028996.D

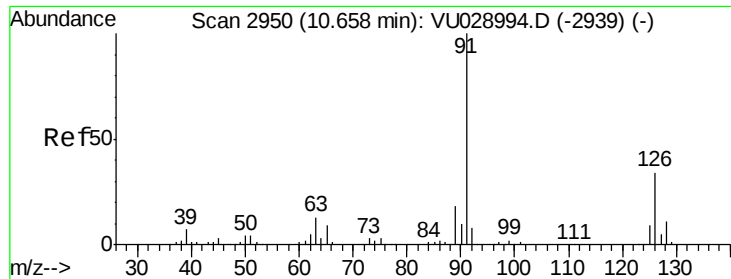
Acq: 03 Jan 2019 14:42

Tgt Ion:	91	Resp:	1472999
Ion Ratio	Lower	Upper	
91	100		
120	22.6	11.3	33.9



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 140.079 ug/l

RT: 10.66 min Scan# 2950

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 850748

Ion Ratio Lower Upper

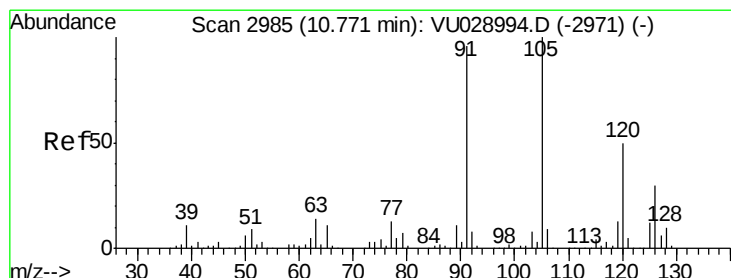
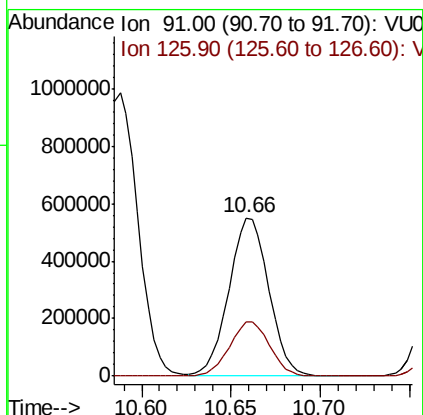
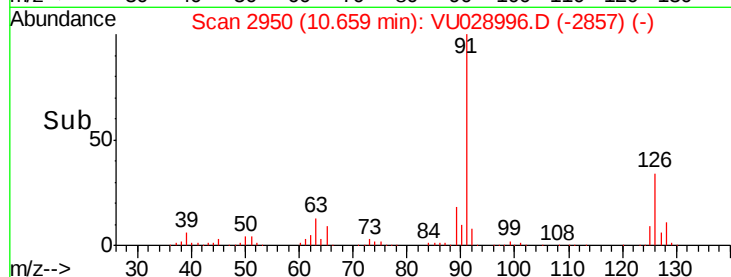
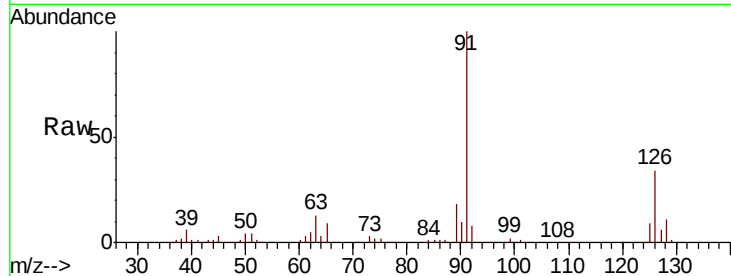
91 100

126 34.6 16.8 50.4

Manual Integrations
APPROVED

MMDadoda

1/4/2019 9:51:04 AM



#80

1,3,5-Trimethylbenzene

Concen: 146.261 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU028996.D

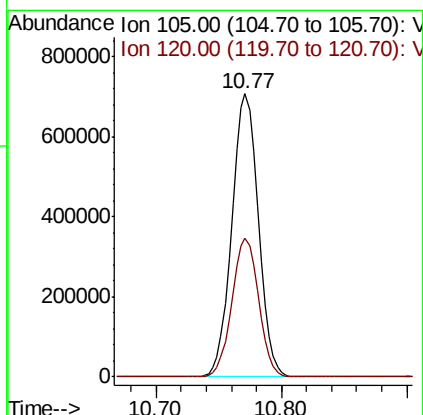
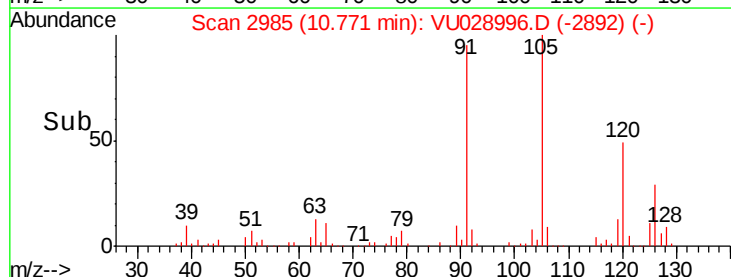
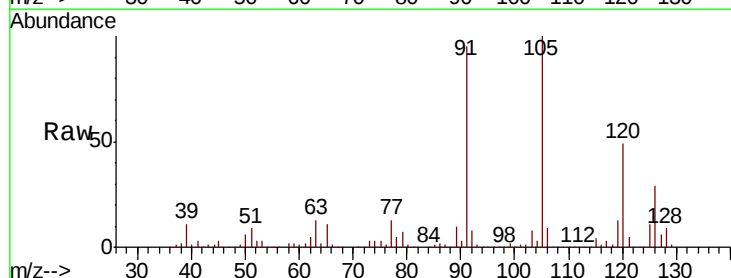
Acq: 03 Jan 2019 14:42

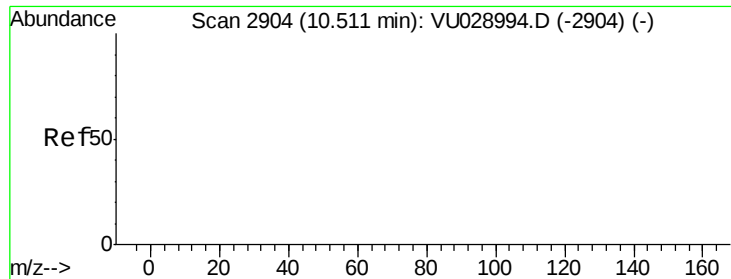
Tgt Ion: 105 Resp: 1037648

Ion Ratio Lower Upper

105 100

120 49.2 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 118.260 ug/l m

RT: 10.51 min Scan# 2904

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 164204

Ion Ratio Lower Upper

75 100

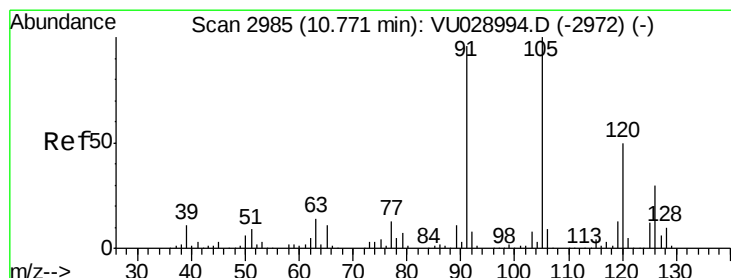
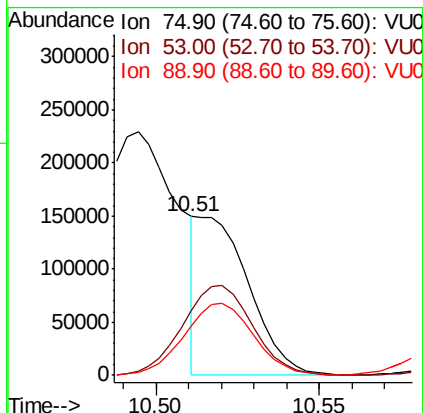
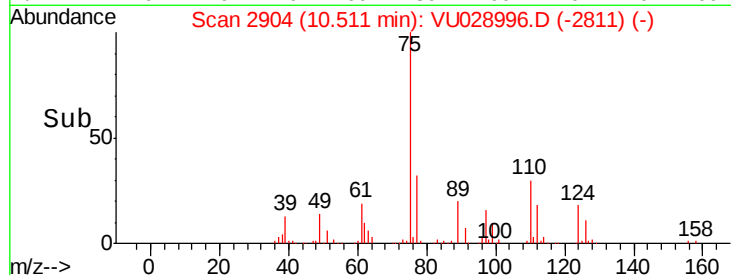
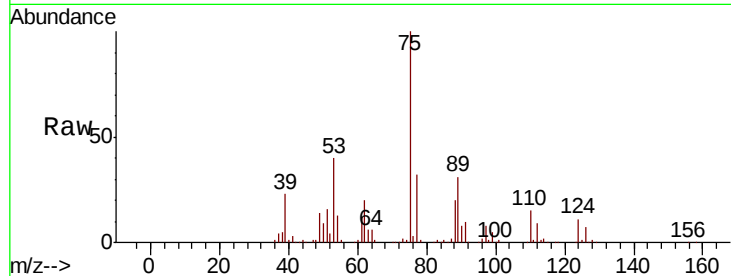
53 0.0 0.0 0.0

89 0.0 0.0 0.0

Manual Integrations
APPROVED

MMDadoda

1/4/2019 9:51:04 AM



#82

4-Chlorotoluene

Concen: 146.327 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU028996.D

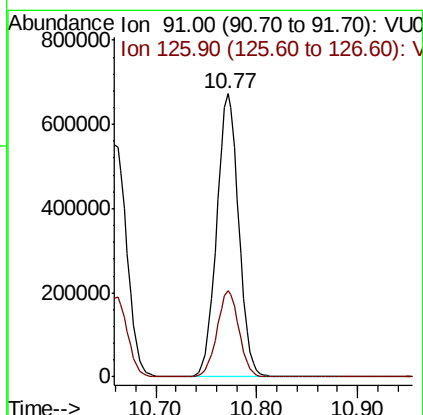
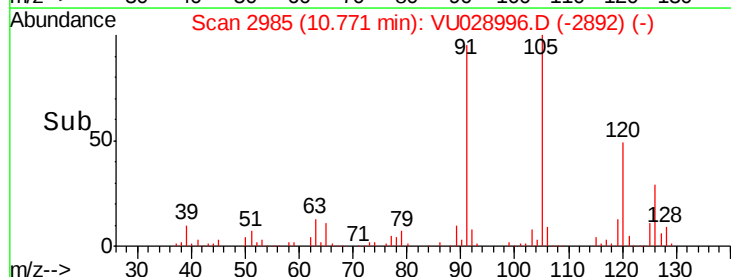
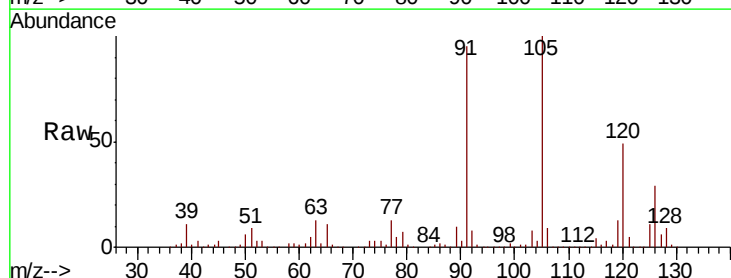
Acq: 03 Jan 2019 14:42

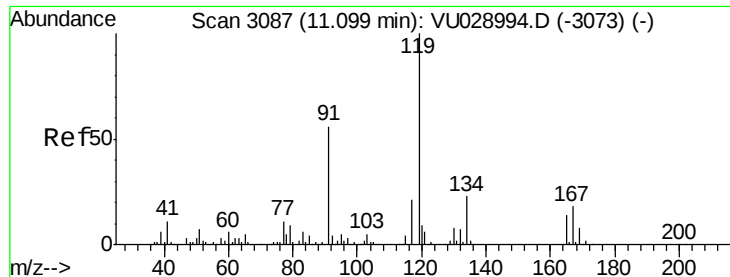
Tgt Ion: 91 Resp: 1019030

Ion Ratio Lower Upper

91 100

126 30.5 15.5 46.5





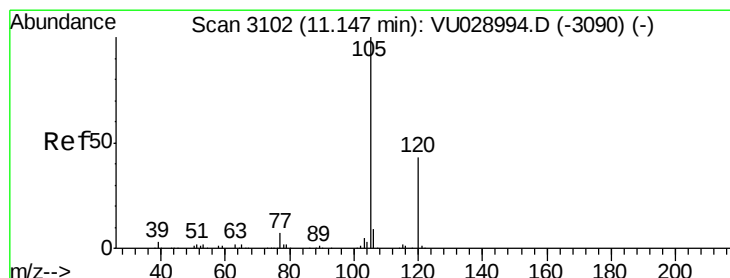
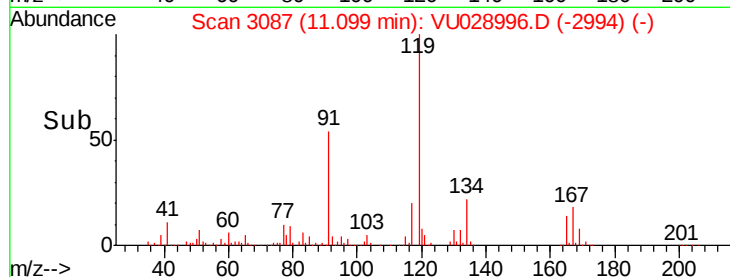
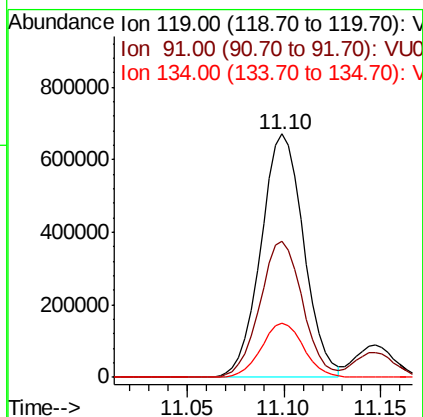
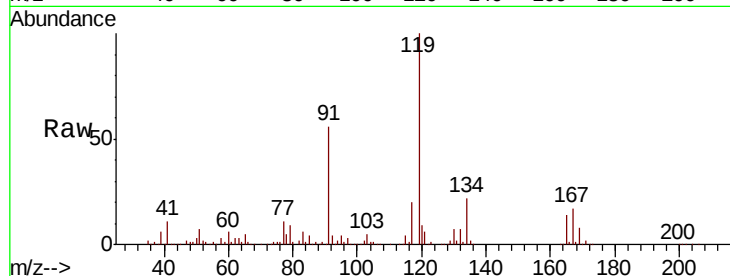
#83
tert-Butylbenzene
Concen: 148.157 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
119	100		
91	55.9	28.2	84.6
134	22.2	11.3	33.8

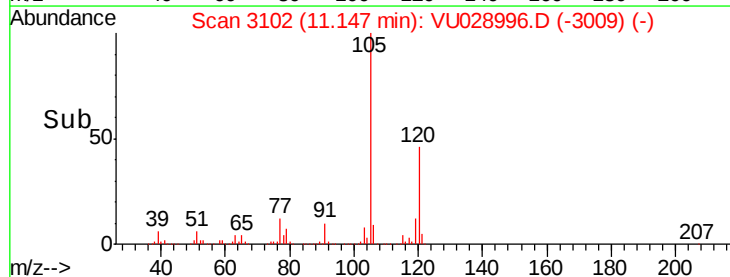
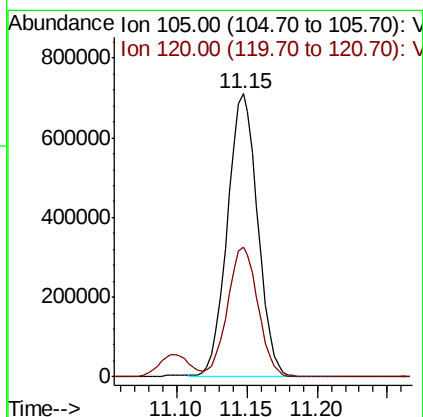
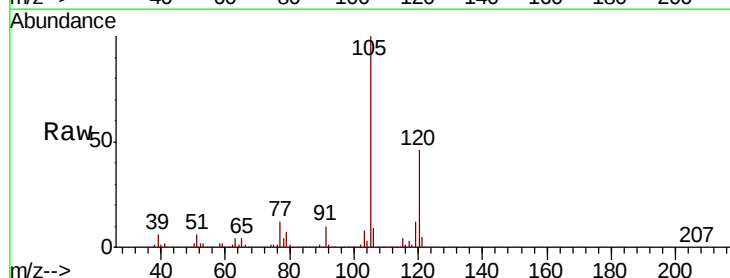
Manual Integrations
APPROVED

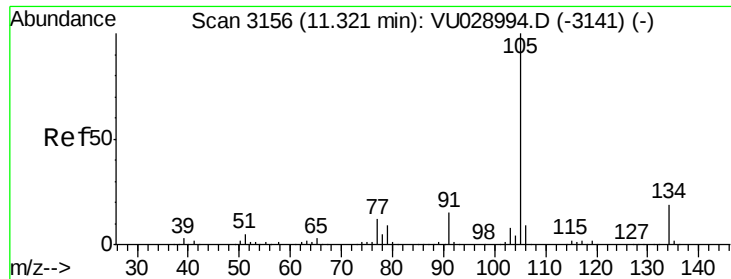
MMDadoda
1/4/2019 9:51:04 AM



#84
1,2,4-Trimethylbenzene
Concen: 150.551 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.1	69.3





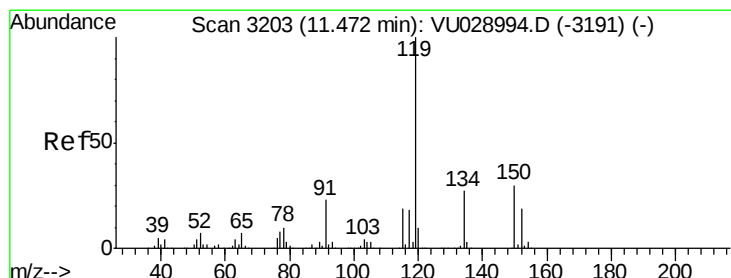
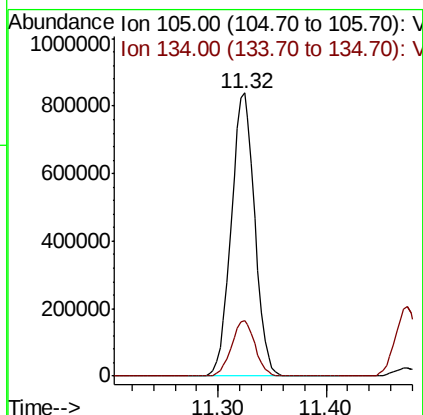
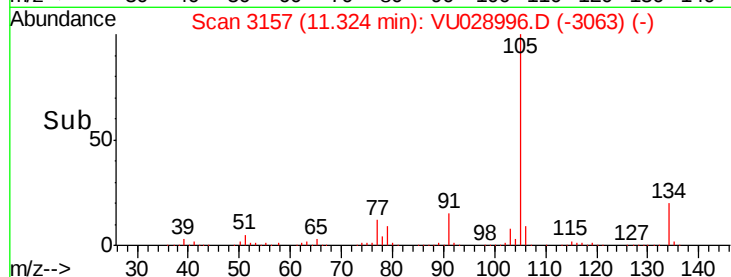
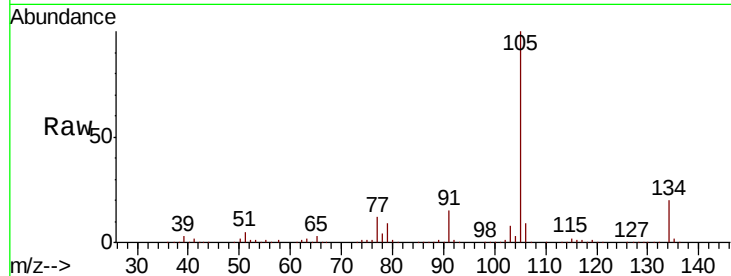
#85
 sec-Butylbenzene
 Concen: 150.321 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. 0.00 min
 Lab File: VU028996.D
 Acq: 03 Jan 2019 14:42

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC150

Tgt Ion:105 Resp: 1271224
 Ion Ratio Lower Upper
 105 100
 134 19.7 9.7 29.1

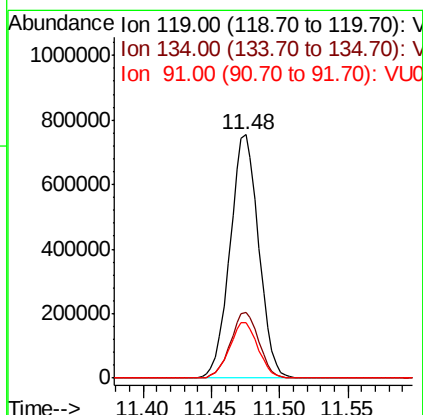
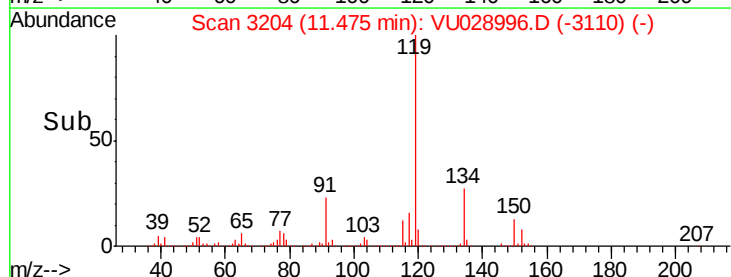
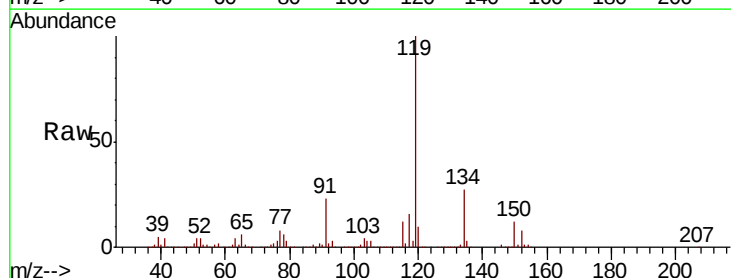
Manual Integrations
 APPROVED

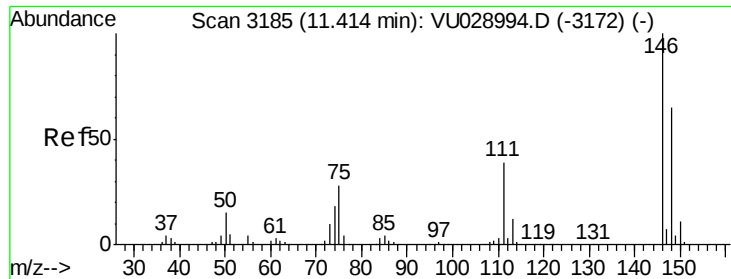
MMDadoda
 1/4/2019 9:51:04 AM



#86
 p-Isopropyltoluene
 Concen: 152.217 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. 0.00 min
 Lab File: VU028996.D
 Acq: 03 Jan 2019 14:42

Tgt Ion:119 Resp: 1096900
 Ion Ratio Lower Upper
 119 100
 134 26.9 13.5 40.4
 91 22.9 11.3 33.8





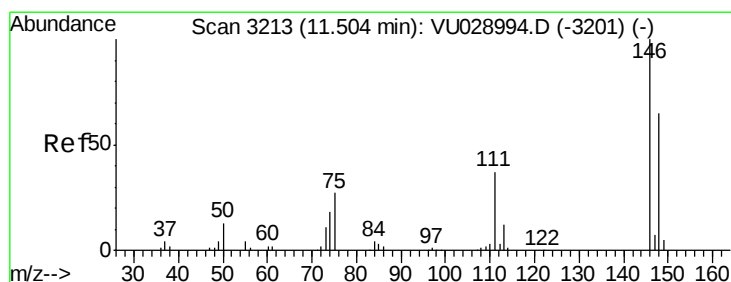
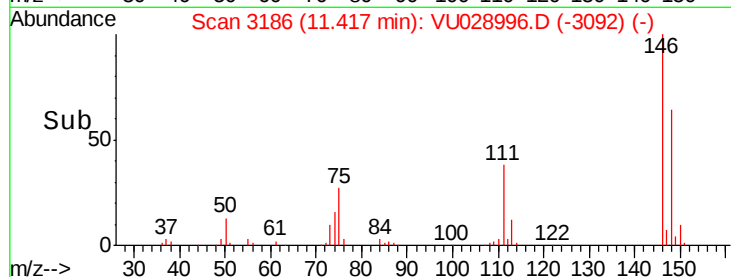
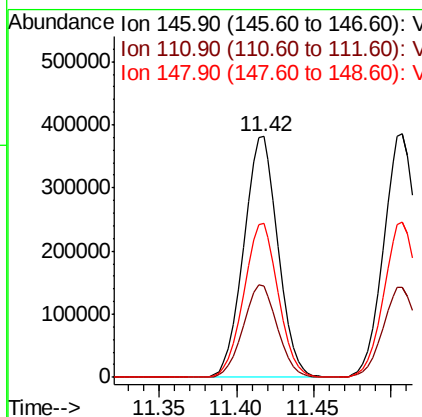
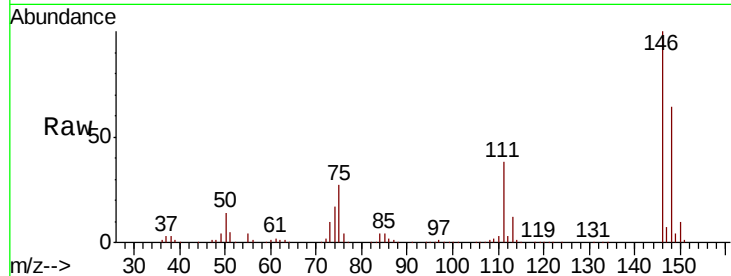
#87
 1,3-Dichlorobenzene
 Concen: 145.002 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU028996.D
 Acq: 03 Jan 2019 14:42

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC150

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.3	57.8
148	63.9	32.5	97.5

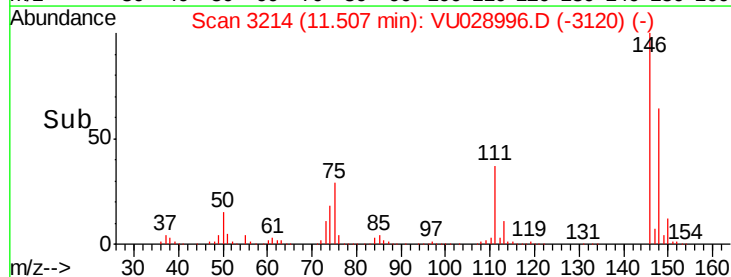
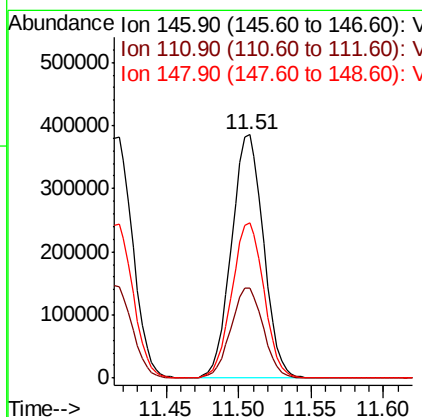
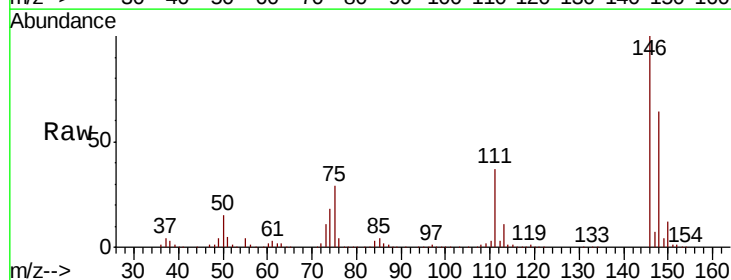
Manual Integrations
 APPROVED

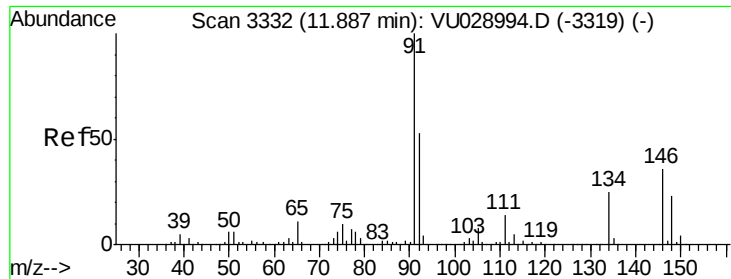
MMDadoda
 1/4/2019 9:51:04 AM



#88
 1,4-Dichlorobenzene
 Concen: 140.907 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU028996.D
 Acq: 03 Jan 2019 14:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.1	57.3
148	64.2	32.6	98.0





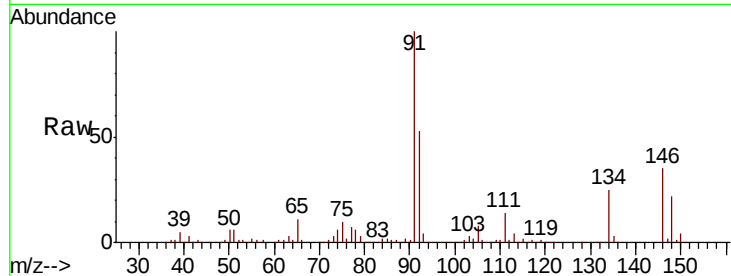
#89
n-Butylbenzene
Concen: 163.750 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

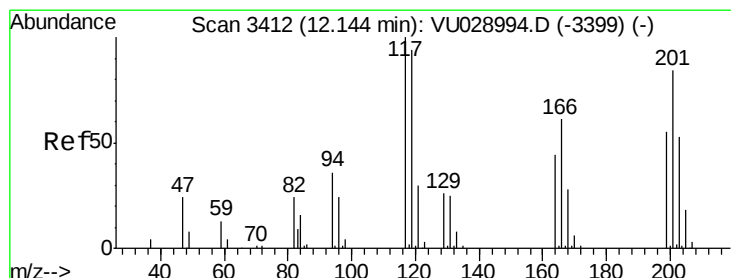
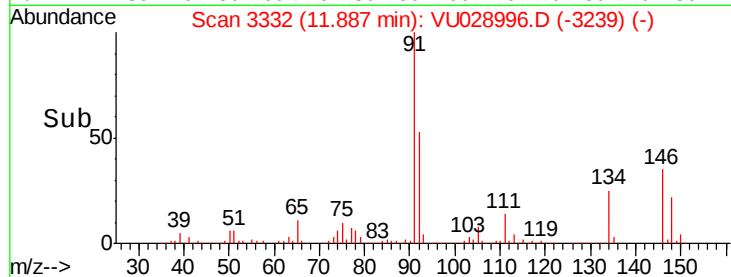
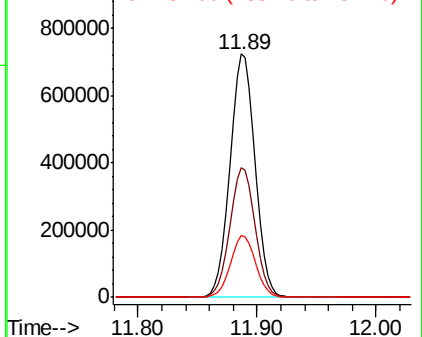
Tgt Ion: 91 Resp: 1053196
Ion Ratio Lower Upper
91 100
92 53.3 26.2 78.5
134 25.5 12.6 37.6

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:51:04 AM

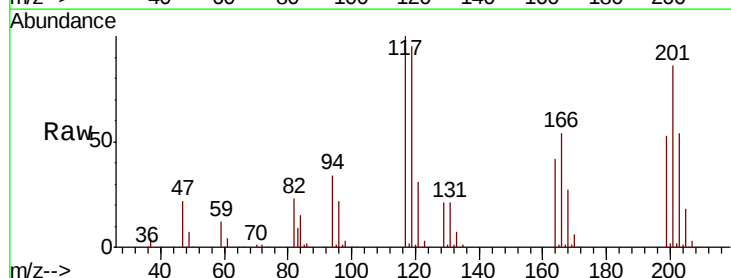


Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 92.00 (91.70 to 92.70): VU0
Ion 134.00 (133.70 to 134.70): V

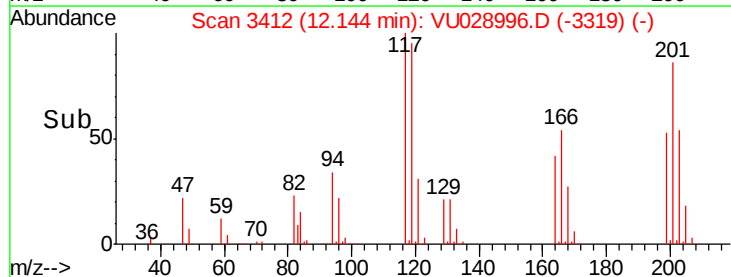
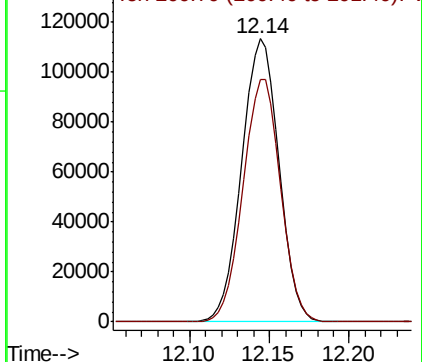


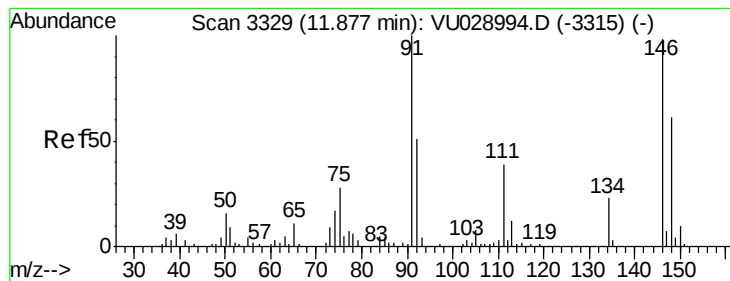
#90
Hexachloroethane
Concen: 148.321 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion: 117 Resp: 179807
Ion Ratio Lower Upper
117 100
201 86.2 42.4 127.3



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 143.888 ug/l

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC150

Tgt Ion: 146 Resp: 588532

Ion Ratio Lower Upper

146 100

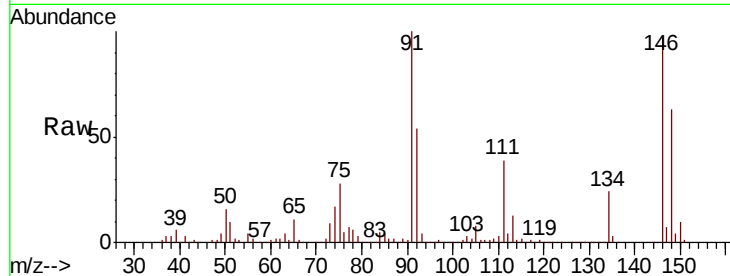
111 40.1 20.0 59.9

148 63.9 31.6 94.8

Manual Integrations
APPROVED

MMDadoda

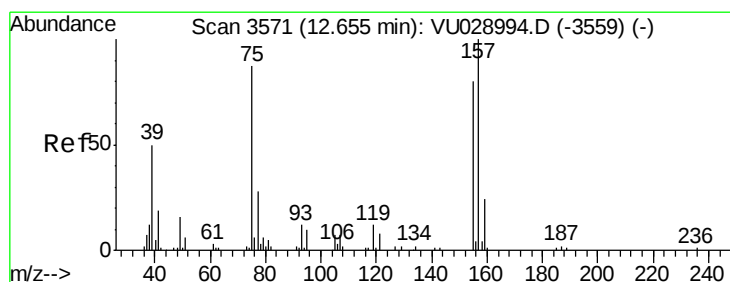
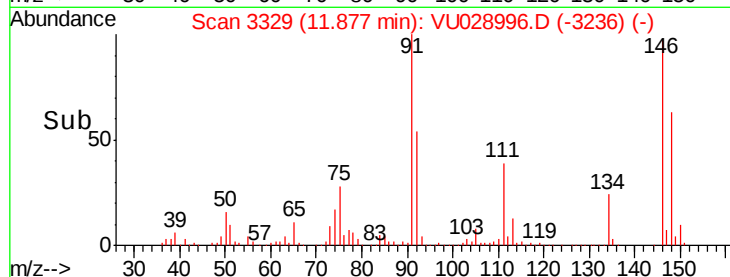
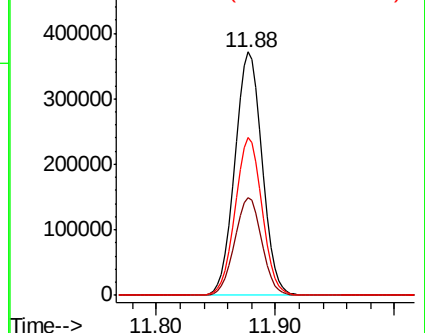
1/4/2019 9:51:04 AM



Abundance Ion 145.90 (145.60 to 146.60): 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: 151.604 ug/l

RT: 12.65 min Scan# 3570

Delta R.T. -0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

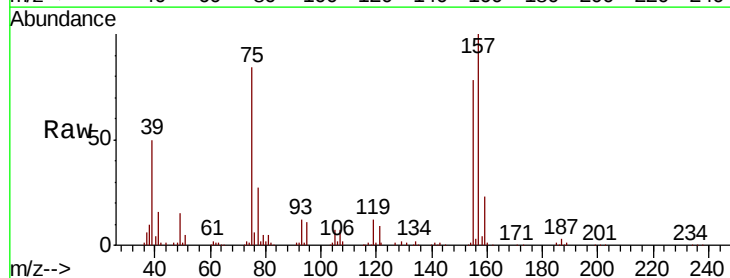
Tgt Ion: 75 Resp: 99283

Ion Ratio Lower Upper

75 100

155 92.8 46.3 138.8

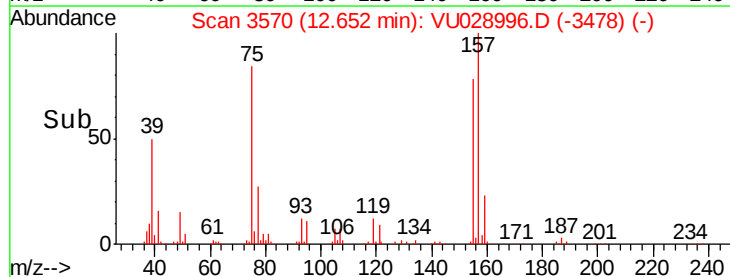
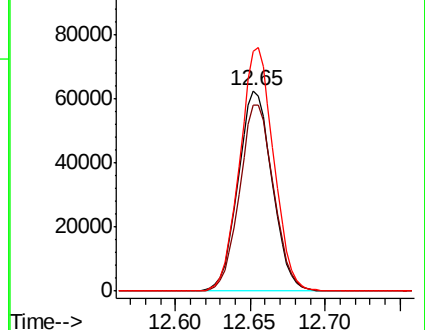
157 120.6 57.4 172.0

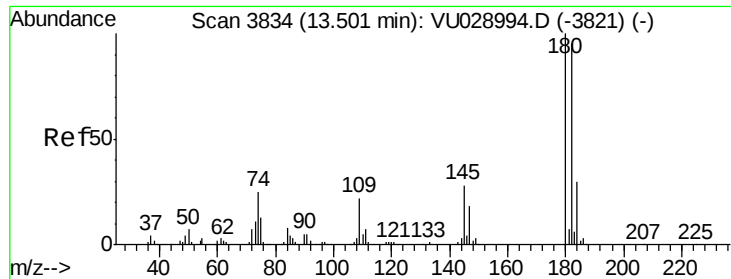


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





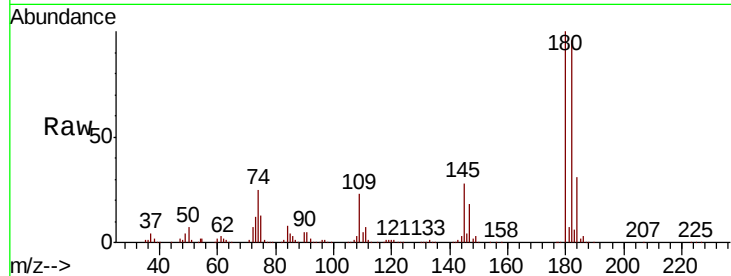
#93
1,2,4-Trichlorobenzene
Concen: 158.191 ug/l
RT: 13.50 min Scan# 3834
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	413036		
182	95.5	47.5	142.6	
145	28.2	14.0	42.0	

Manual Integrations
APPROVED

MMDadoda
1/4/2019 9:51:04 AM

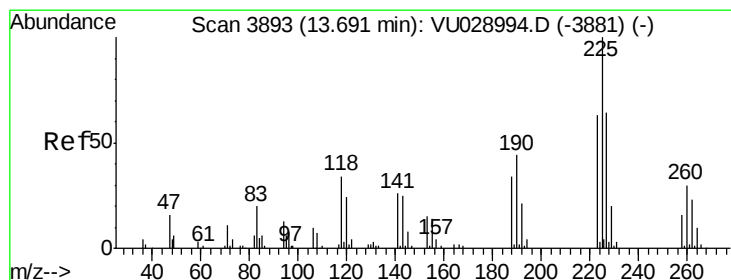
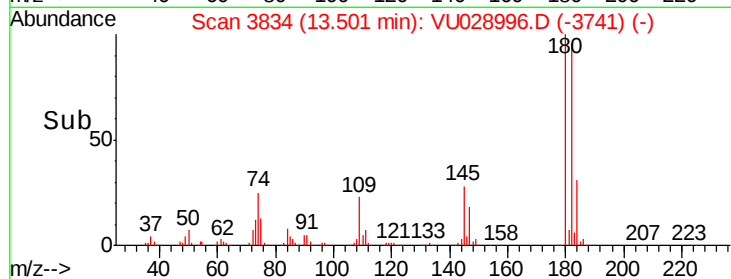
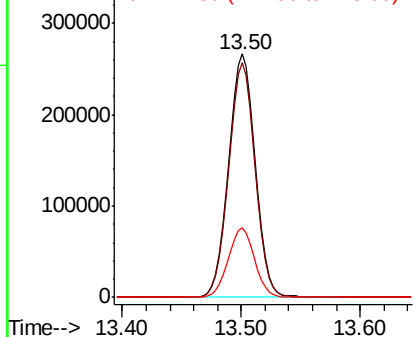


Abundance

Ion 179.80 (179.50 to 180.50): V

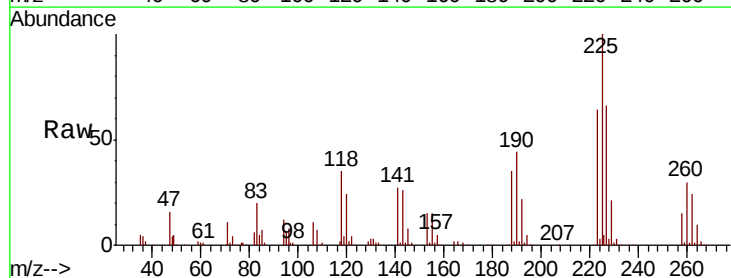
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
Hexachlorobutadiene
Concen: 144.999 ug/l
RT: 13.69 min Scan# 3893
Delta R.T. 0.00 min
Lab File: VU028996.D
Acq: 03 Jan 2019 14:42

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	173166		
223	63.7	31.4	94.0	
227	64.3	31.9	95.5	

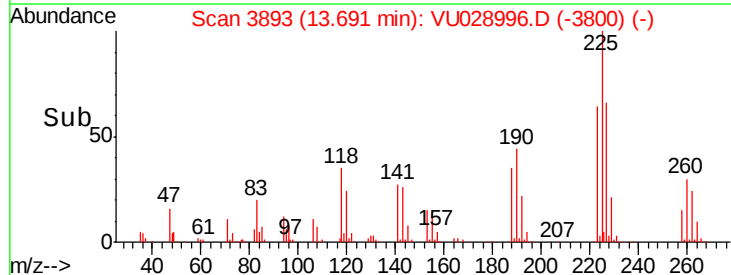
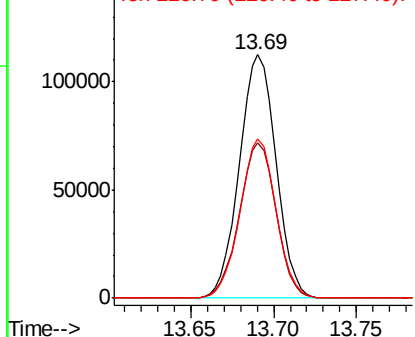


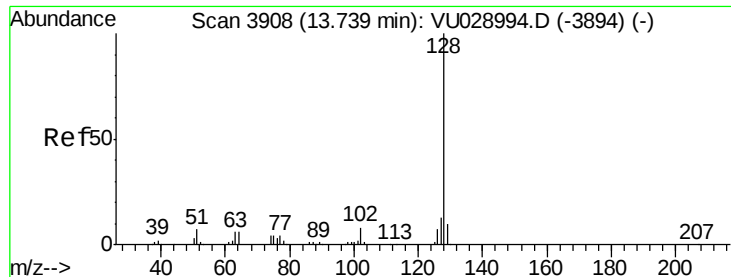
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 153.208 ug/l

RT: 13.74 min Scan# 3908

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC150

Tgt Ion:128 Resp: 1360800

Ion Ratio Lower Upper

128 100

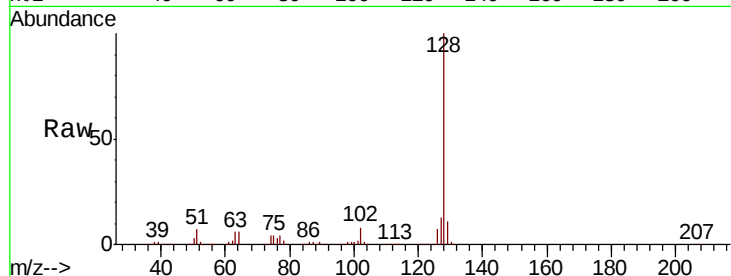
127 12.9 10.1 15.1

129 10.8 8.5 12.7

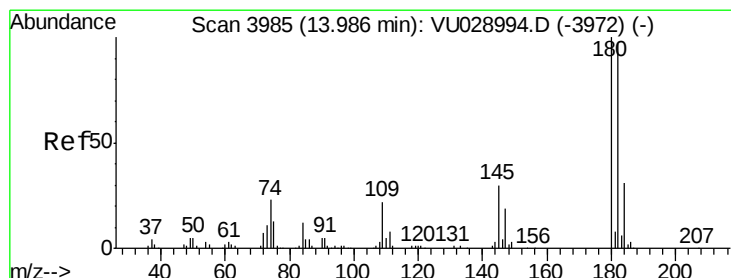
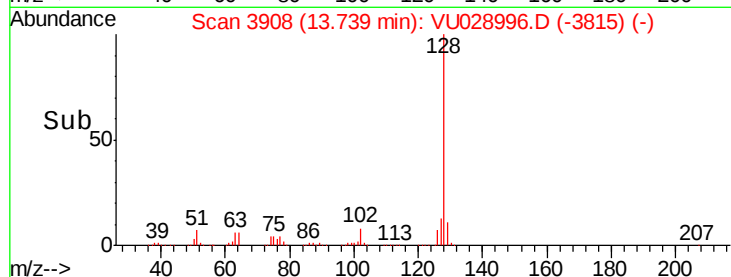
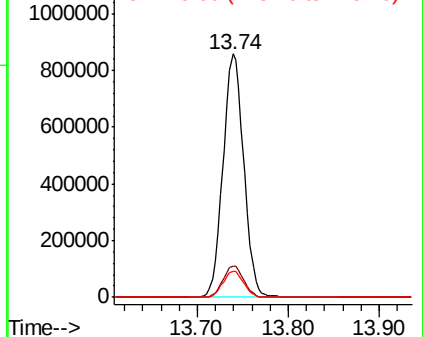
Manual Integrations
APPROVED

MMDadoda

1/4/2019 9:51:04 AM



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: 147.711 ug/l

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028996.D

Acq: 03 Jan 2019 14:42

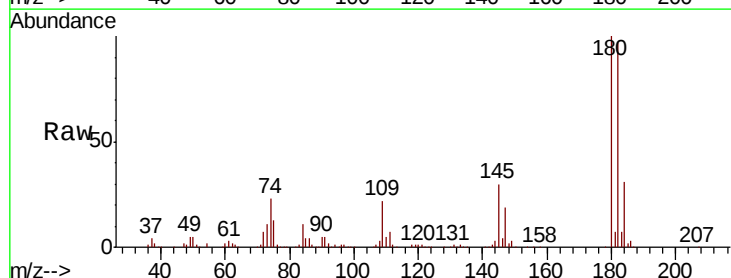
Tgt Ion:180 Resp: 410066

Ion Ratio Lower Upper

180 100

182 96.0 48.1 144.3

145 29.7 14.8 44.4



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

