

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091219\
 Data File : VU034523.D
 Acq On : 12 Sep 2019 16:28
 Operator : JC/SP
 Sample : VU0912WBS03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS03

Manual Integrations
 APPROVED

MMDadoda
 9/16/2019 11:16:53 AM

Quant Time: Sep 13 07:53:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	254448	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	355258	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	355887	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	238738	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	222147	57.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	115.40%	
35) Dibromofluoromethane	4.86	113	200837	60.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	121.50%	
50) Toluene-d8	7.54	98	744862	59.98	ug/l	0.00
Spiked Amount 50.000			Recovery	=	119.96%	
62) 4-Bromofluorobenzene	10.29	95	283882	59.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	118.40%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.20	85	56085	21.075	ug/l	98
3) Chloromethane	1.32	50	67700	23.502	ug/l	100
4) Vinyl Chloride	1.40	62	68683	20.712	ug/l	98
5) Bromomethane	1.62	94	45553	24.933	ug/l	97
6) Chloroethane	1.69	64	45018	22.812	ug/l	96
7) Trichlorofluoromethane	1.88	101	101491	22.826	ug/l	99
8) Diethyl Ether	2.09	74	45241	23.132	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.28	101	68994	23.428	ug/l	99
10) Methyl Iodide	2.40	142	43340	18.695	ug/l	98
11) Tert butyl alcohol	2.81	59	103178	126.857	ug/l	98
12) 1,1-Dichloroethene	2.27	96	61848	22.341	ug/l	96
13) Acrolein	2.18	56	34947	51.122	ug/l	100
14) Allyl chloride	2.58	41	115002m	21.729	ug/l	
15) Acrylonitrile	2.92	53	245854	121.385	ug/l	98
16) Acetone	2.31	43	242571	121.755	ug/l	99
17) Carbon Disulfide	2.47	76	116418	18.711	ug/l	100
18) Methyl Acetate	2.60	43	113975	23.511	ug/l	100
19) Methyl tert-butyl Ether	2.98	73	245118	24.292	ug/l	98
20) Methylene Chloride	2.69	84	80418	24.439	ug/l	97
21) trans-1,2-Dichloroethene	2.97	96	65085	22.310	ug/l	98
22) Diisopropyl ether	3.55	45	253737	24.583	ug/l	91
23) Vinyl Acetate	3.50	43	1003554	119.365	ug/l	99
24) 1,1-Dichloroethane	3.43	63	142649	23.143	ug/l	99
25) 2-Butanone	4.24	43	330040	124.101	ug/l	100
26) 2,2-Dichloropropane	4.20	77	119679	24.141	ug/l	100
27) cis-1,2-Dichloroethene	4.20	96	83929	23.687	ug/l	98
28) Bromochloromethane	4.52	49	75949	26.788	ug/l	97
29) Tetrahydrofuran	4.61	42	195650	120.899	ug/l	100
30) Chloroform	4.65	83	146226	23.339	ug/l	100
31) Cyclohexane	4.97	56	98068	21.747	ug/l	98
32) 1,1,1-Trichloroethane	4.89	97	119740	23.903	ug/l	98
36) 1,1-Dichloropropene	5.12	75	89180	23.147	ug/l	100
37) Ethyl Acetate	4.36	43	108875	23.901	ug/l	99
38) Carbon Tetrachloride	5.11	117	100873	24.521	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091219\
 Data File : VU034523.D
 Acq On : 12 Sep 2019 16:28
 Operator : JC/SP
 Sample : VU0912WBS03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS03

Manual Integrations
 APPROVED

MMDadoda
 9/16/2019 11:16:53 AM

Quant Time: Sep 13 07:53:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	93302	22.654	ug/l	98
40) Benzene	5.37	78	299222	24.069	ug/l	99
41) Methacrylonitrile	4.52	41	61885	25.505	ug/l	99
42) 1,2-Dichloroethane	5.38	62	105991	24.556	ug/l	99
43) Isopropyl Acetate	5.53	43	173531	24.420	ug/l	99
44) Trichloroethene	6.17	130	79675	23.160	ug/l	95
45) 1,2-Dichloropropane	6.41	63	88333	24.305	ug/l	97
46) Dibromomethane	6.54	93	56873	24.930	ug/l	98
47) Bromodichloromethane	6.73	83	115796	24.659	ug/l	98
48) Methyl methacrylate	6.60	41	79231	23.475	ug/l	95
49) 1,4-Dioxane	6.59	88	35653	483.753	ug/l	98
51) 4-Methyl-2-Pentanone	7.44	43	609514	123.913	ug/l	99
52) Toluene	7.62	92	193668	24.833	ug/l	99
53) t-1,3-Dichloropropene	7.86	75	119760	24.602	ug/l	100
54) cis-1,3-Dichloropropene	7.25	75	133456	24.979	ug/l	99
55) 1,1,2-Trichloroethane	8.04	97	88788	25.073	ug/l	99
56) Ethyl methacrylate	8.00	69	120731	24.136	ug/l	98
57) 1,3-Dichloropropane	8.22	76	141908	24.610	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.11	63	192551	115.370	ug/l	99
59) 2-Hexanone	8.34	43	466019	126.820	ug/l	99
60) Dibromochloromethane	8.45	129	96088	25.298	ug/l	99
61) 1,2-Dibromoethane	8.57	107	86179	24.864	ug/l	100
64) Tetrachloroethene	8.21	164	72547	23.497	ug/l	97
65) Chlorobenzene	9.10	112	222772	24.673	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.19	131	85777	24.893	ug/l	100
67) Ethyl Benzene	9.23	91	359796	24.372	ug/l	99
68) m/p-Xylenes	9.35	106	282576	50.831	ug/l	99
69) o-Xylene	9.76	106	136351	25.080	ug/l	100
70) Styrene	9.77	104	245615	25.768	ug/l	98
71) Bromoform	9.94	173	75126	25.157	ug/l #	99
73) Isopropylbenzene	10.14	105	376071	24.206	ug/l	100
74) N-amyl acetate	9.99	43	150997	24.145	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.43	83	151020	24.014	ug/l	100
76) 1,2,3-Trichloropropane	10.47	75	128482m	24.655	ug/l	
77) Bromobenzene	10.43	156	104593	24.076	ug/l	98
78) n-propylbenzene	10.57	91	439892	24.516	ug/l	99
79) 2-Chlorotoluene	10.64	91	268439	24.519	ug/l	100
80) 1,3,5-Trimethylbenzene	10.75	105	330196	25.412	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.49	75	36385m	23.480	ug/l	
82) 4-Chlorotoluene	10.75	91	309831	24.592	ug/l	99
83) tert-Butylbenzene	11.08	119	317879	24.455	ug/l	99
84) 1,2,4-Trimethylbenzene	11.13	105	329244	25.172	ug/l	99
85) sec-Butylbenzene	11.30	105	383700	25.003	ug/l	100
86) p-Isopropyltoluene	11.45	119	354845	25.052	ug/l	100
87) 1,3-Dichlorobenzene	11.40	146	194286	24.509	ug/l	99
88) 1,4-Dichlorobenzene	11.49	146	193800	23.439	ug/l	99
89) n-Butylbenzene	11.87	91	304644	24.750	ug/l	100
90) Hexachloroethane	12.12	117	53290	23.516	ug/l	99
91) 1,2-Dichlorobenzene	11.86	146	190712	24.479	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.64	75	28583	24.734	ug/l	98

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU091219\
Data File : VU034523.D
Acq On : 12 Sep 2019 16:28
Operator : JC/SP
Sample : VU0912WBS03
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS03

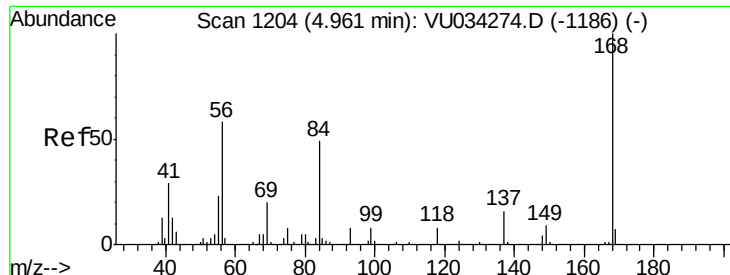
Manual Integrations
APPROVED

MMDadoda
9/16/2019 11:16:53 AM

Quant Time: Sep 13 07:53:00 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.49	180	121077	23.401	ug/l	99
94) Hexachlorobutadiene	13.67	225	61978	22.743	ug/l	99
95) Naphthalene	13.72	128	316982	22.307	ug/l	99
96) 1,2,3-Trichlorobenzene	13.97	180	125122	24.355	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS03

Tot Ion:168 Resp: 254448

Ion Ratio Lower Upper

168 100

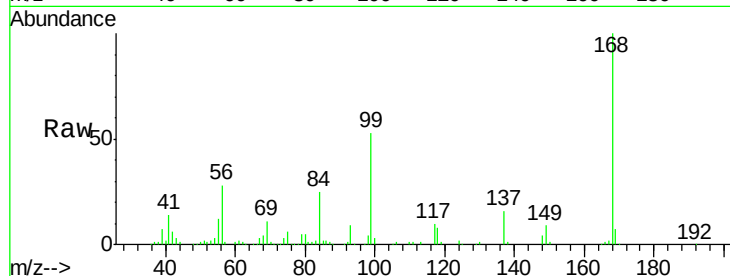
99 52.4 41.6 62.4

Manual Integrations

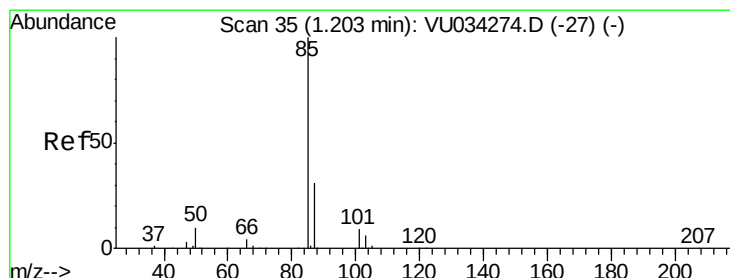
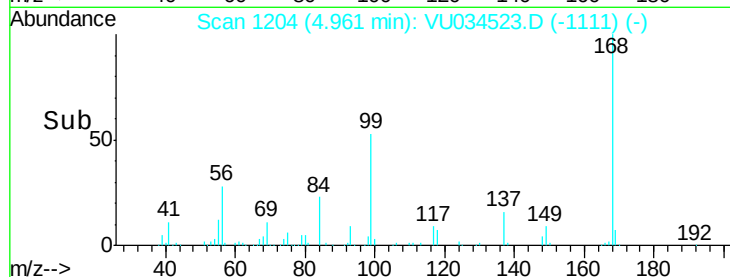
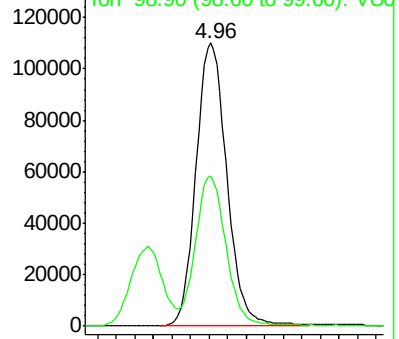
APPROVED

MMDadoda

9/16/2019 11:16:53 AM



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)



#2

Dichlorodifluoromethane

Concen: 21.075 ug/l

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU034523.D

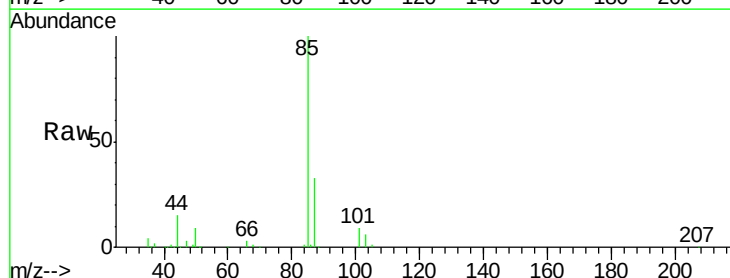
Acq: 12 Sep 2019 16:28

Tgt Ion: 85 Resp: 56085

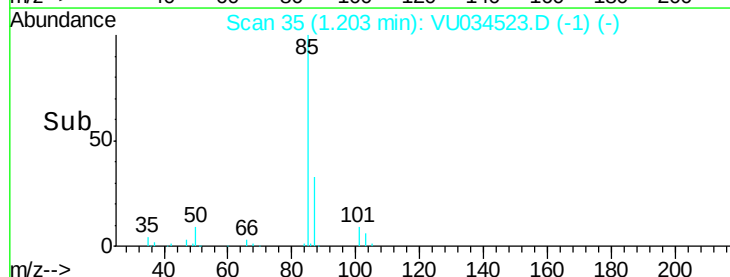
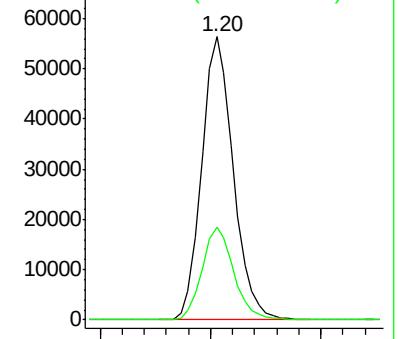
Ion Ratio Lower Upper

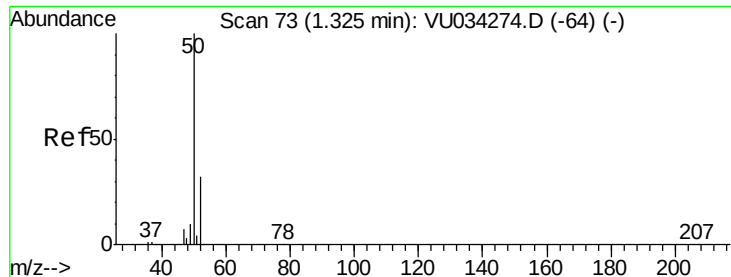
85 100

87 32.6 15.7 47.0



Abundance Ion 84.90 (84.60 to 85.60): VU034274.D (-27) (-)





#3

Chloromethane

Concen: 23.502 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS03

Tot Ion: 50 Resp: 67700

Ion Ratio Lower Upper

50 100

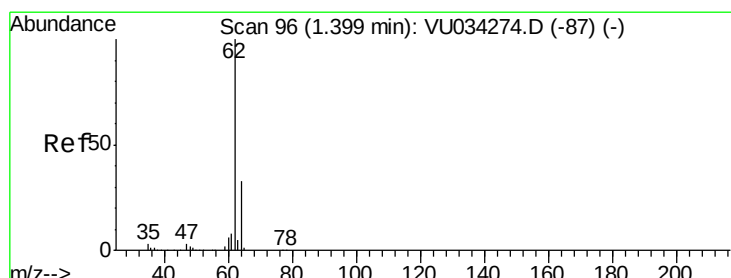
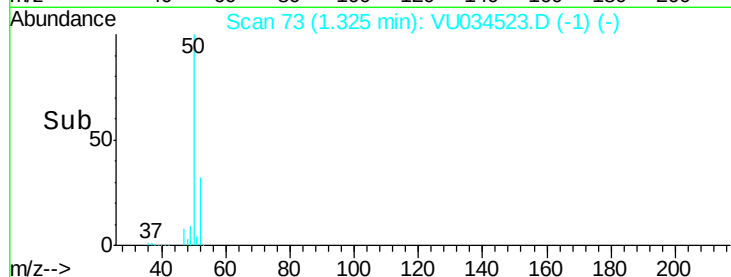
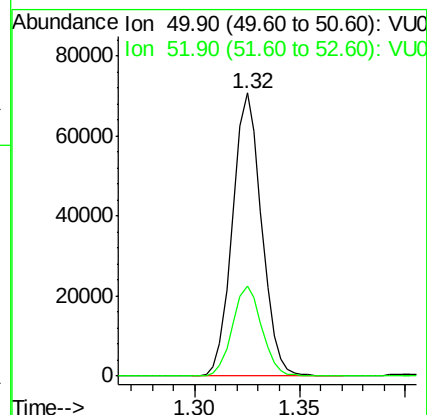
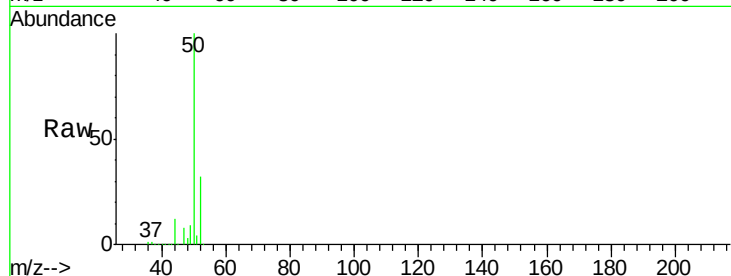
52 32.0 25.8 38.6

Manual Integrations

APPROVED

MMDadoda

9/16/2019 11:16:53 AM



#4

Vinyl Chloride

Concen: 20.712 ug/l

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034523.D

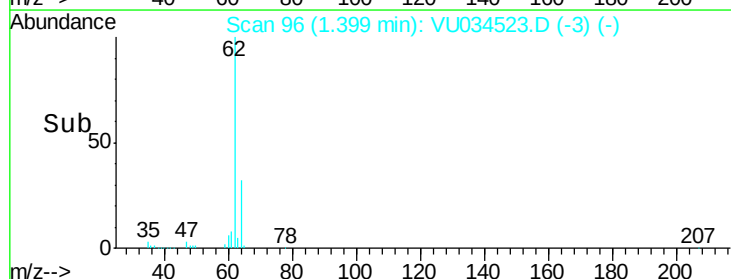
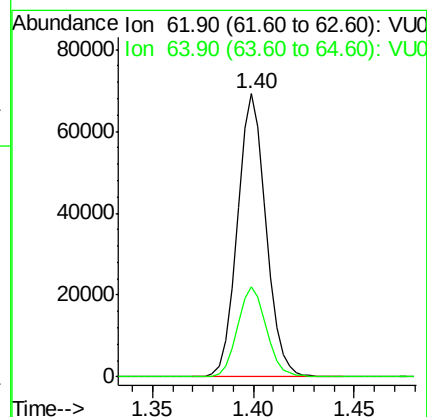
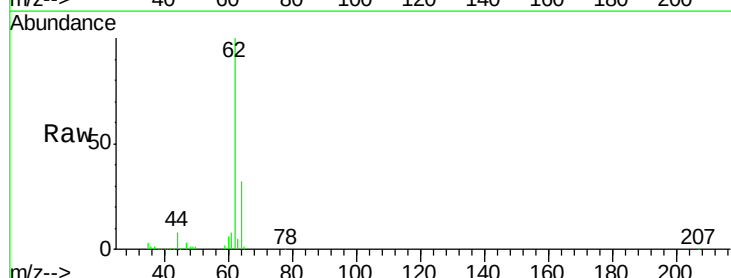
Acq: 12 Sep 2019 16:28

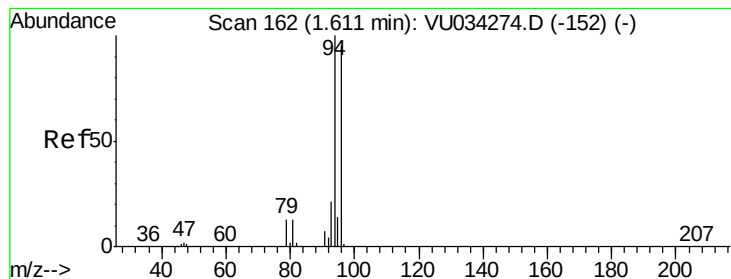
Tgt Ion: 62 Resp: 68683

Ion Ratio Lower Upper

62 100

64 31.7 26.2 39.4





#5

Bromomethane

Concen: 24.933 ug/l

RT: 1.62 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS03

Tot Ion: 94 Resp: 45553

Ion Ratio Lower Upper

94 100

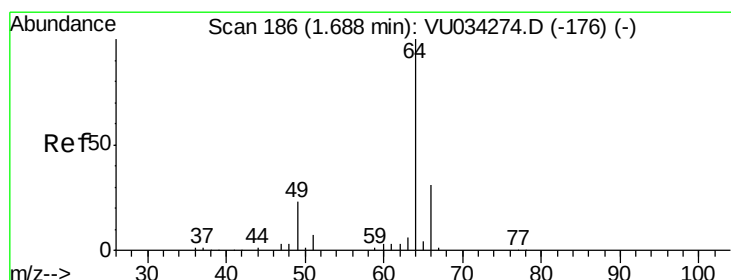
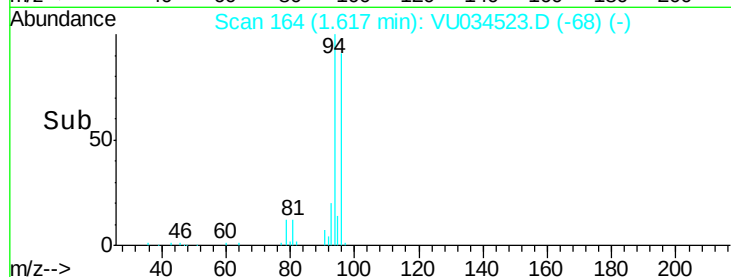
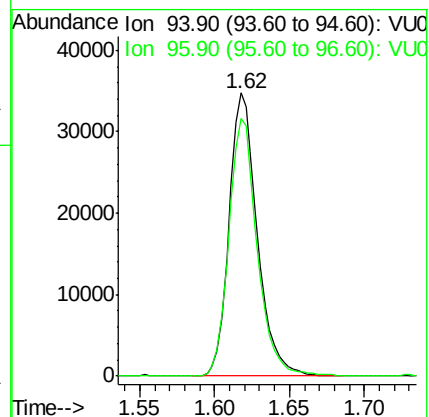
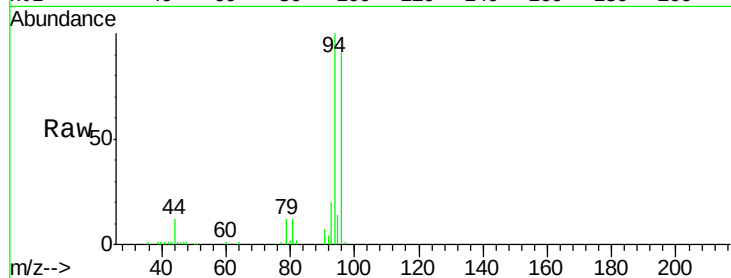
96 91.3 75.7 113.5

Manual Integrations

APPROVED

MMDadoda

9/16/2019 11:16:53 AM



#6

Chloroethane

Concen: 22.812 ug/l

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034523.D

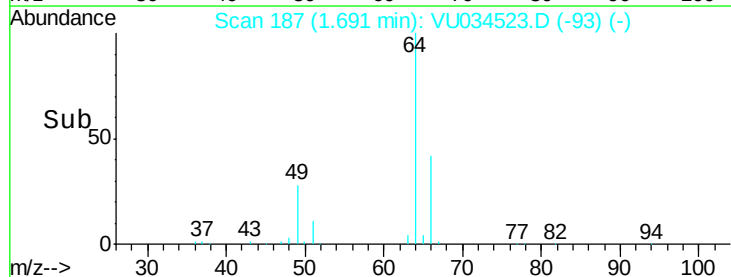
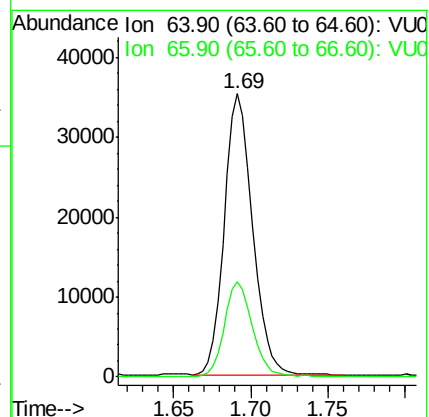
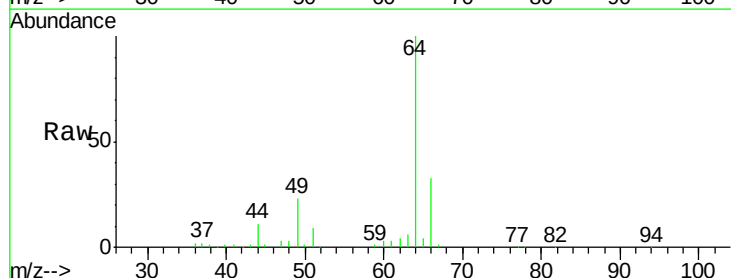
Acq: 12 Sep 2019 16:28

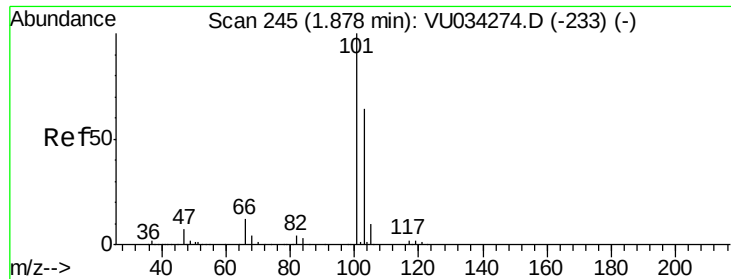
Tgt Ion: 64 Resp: 45018

Ion Ratio Lower Upper

64 100

66 33.6 25.0 37.6





#7

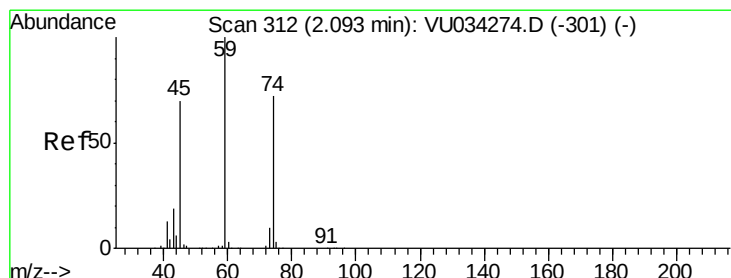
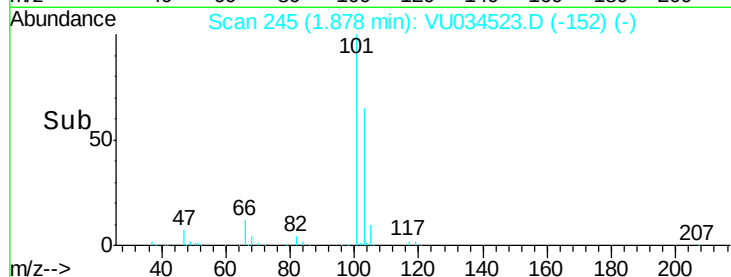
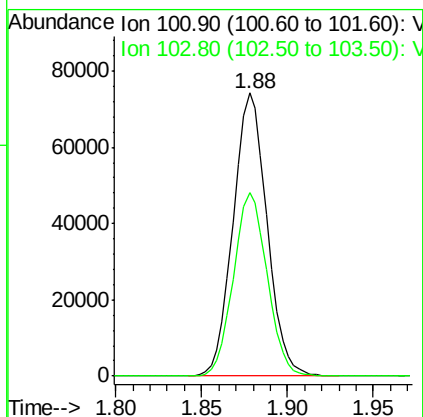
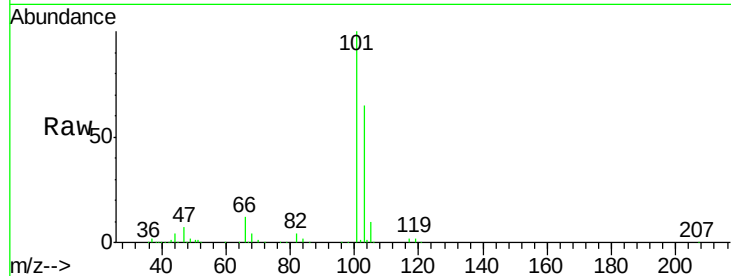
Trichlorofluoromethane
Concen: 22.826 ug/l
RT: 1.88 min Scan# 245
Delta R.T. 0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS03

Tot Ion	Ratio	Resp	Lower	Upper
101	100	101491		
103	64.7	51.0	76.6	

Manual Integrations
APPROVED

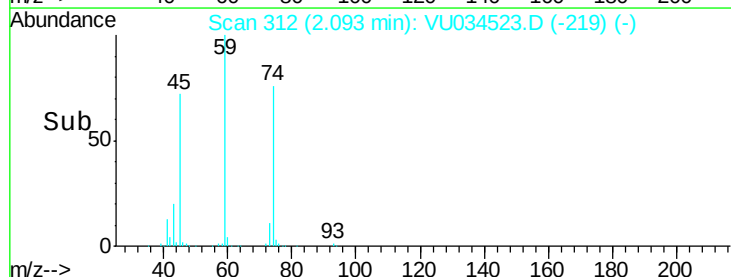
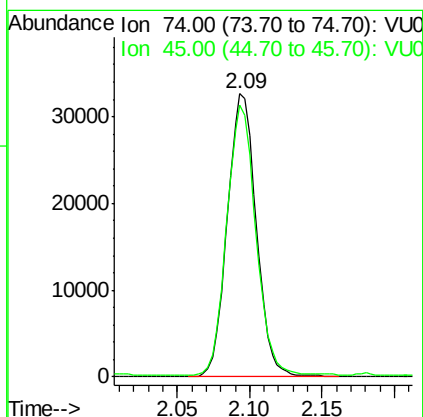
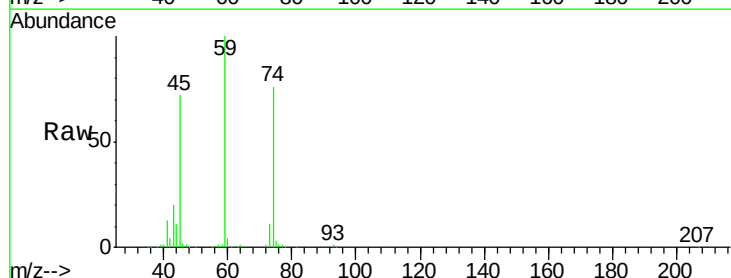
MMDadoda
9/16/2019 11:16:53 AM

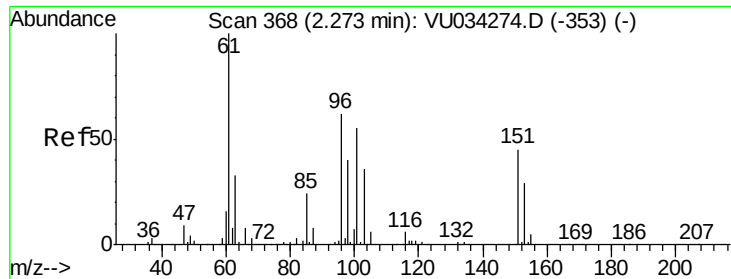


#8

Diethyl Ether
Concen: 23.132 ug/l
RT: 2.09 min Scan# 312
Delta R.T. 0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	45241		
45	95.7	48.2	144.6	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.428 ug/l

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

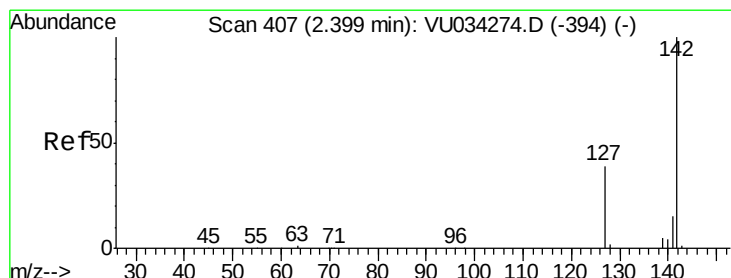
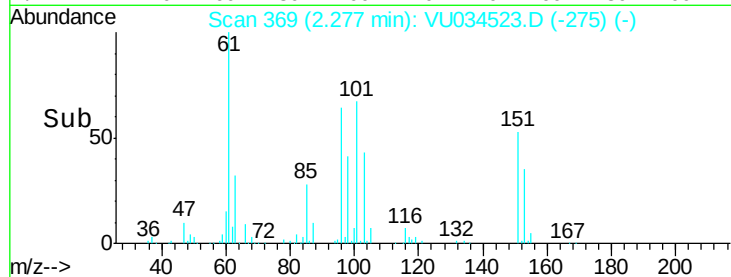
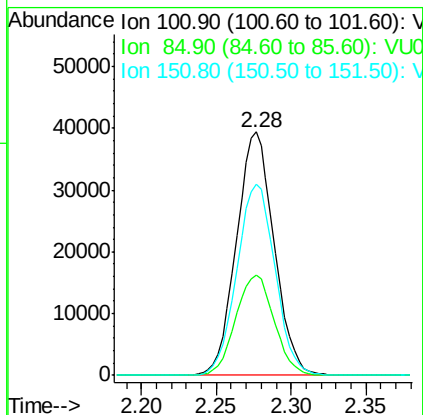
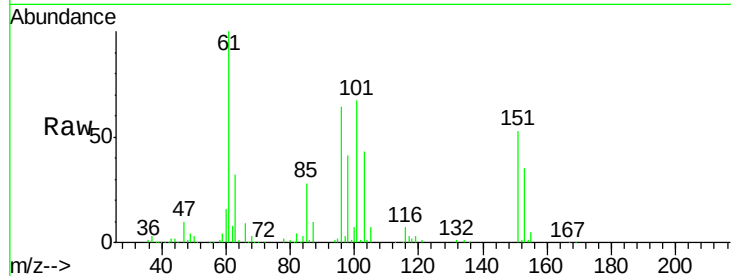
ClientSampleId :

VU0912WBS03

Tot Ion:	101	Resp:	68994
Ion Ratio	Lower	Upper	
101	100		
85	42.0	34.4	51.6
151	79.8	64.4	96.6

Manual Integrations
APPROVED

MMDadoda
9/16/2019 11:16:53 AM



#10

Methyl Iodide

Concen: 18.695 ug/l

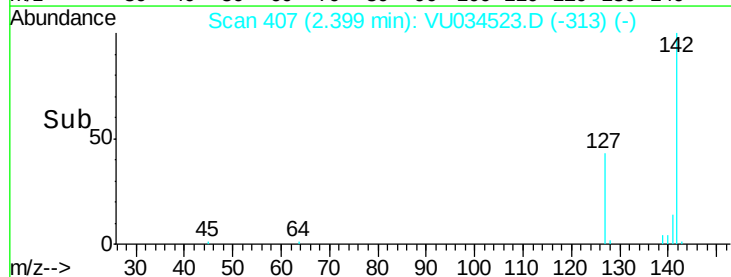
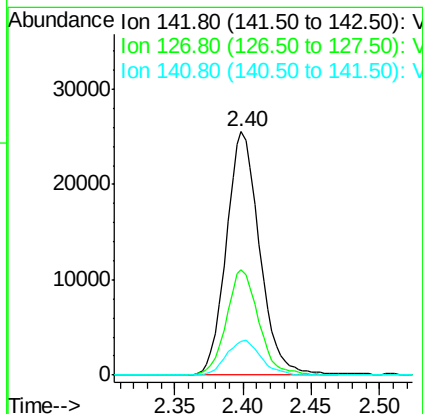
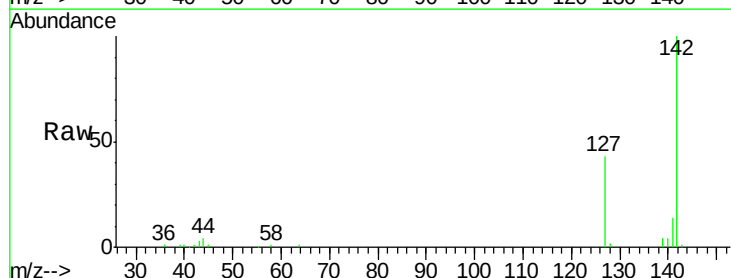
RT: 2.40 min Scan# 407

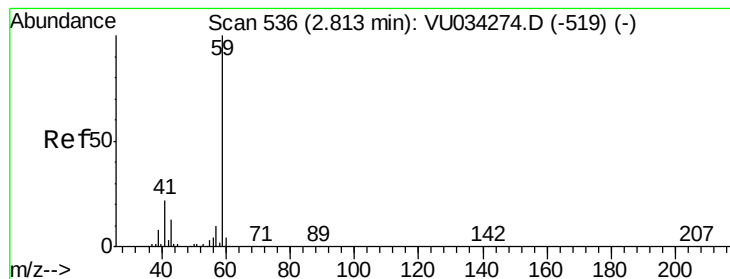
Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Tgt Ion:	142	Resp:	43340
Ion Ratio	Lower	Upper	
142	100		
127	41.7	32.1	48.1
141	14.4	11.5	17.3





#11

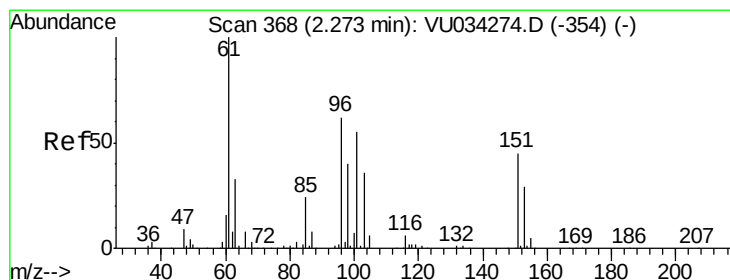
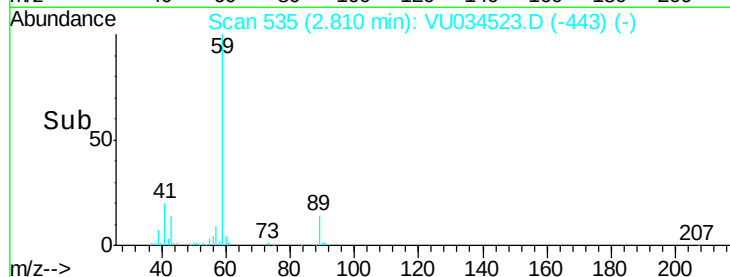
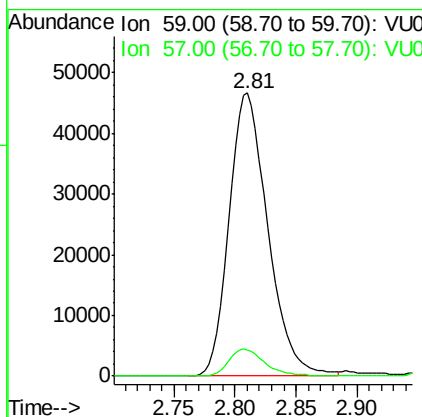
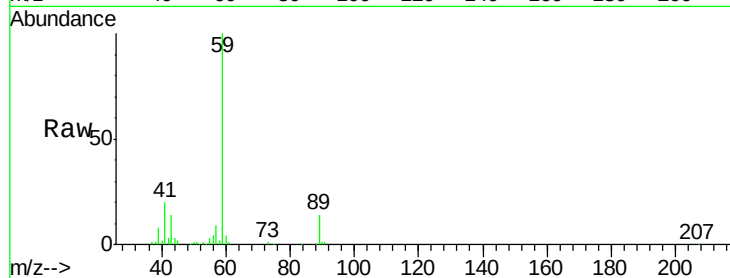
Tert butyl alcohol
 Concen: 126.857 ug/l
 RT: 2.81 min Scan# 535
 Delta R.T. -0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS03

Tot Ion	Ratio	Resp	Lower	Upper
59	100	103178		
57	9.1		7.9	11.9

Manual Integrations
 APPROVED

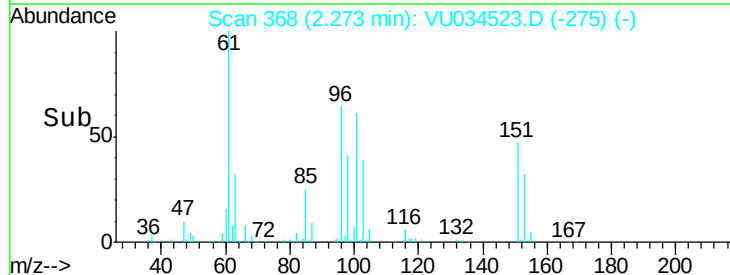
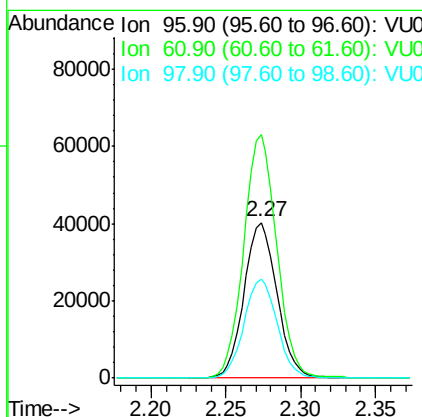
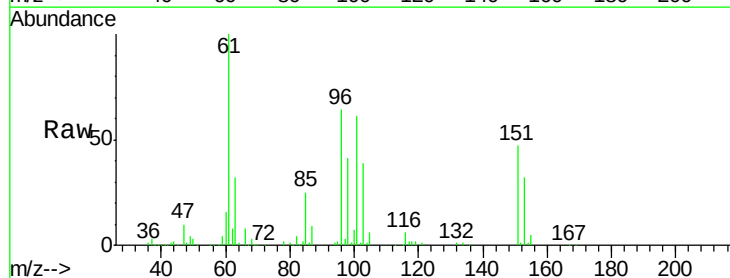
MMDadoda
 9/16/2019 11:16:53 AM

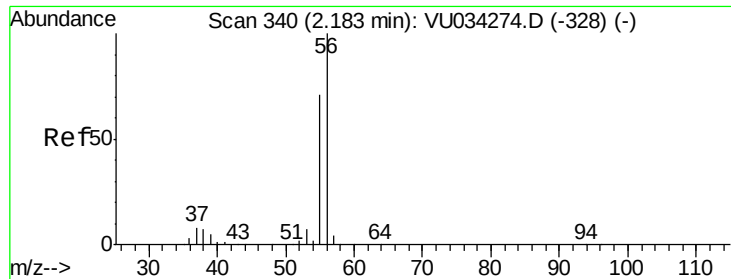


#12

1,1-Dichloroethene
 Concen: 22.341 ug/l
 RT: 2.27 min Scan# 368
 Delta R.T. 0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	61848		
61	156.4		130.0	195.0
98	63.5		52.2	78.4





#13

Acrolein

Concen: 51.122 ug/l

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS03

Tot Ion: 56 Resp: 34947

Ion Ratio Lower Upper

56 100

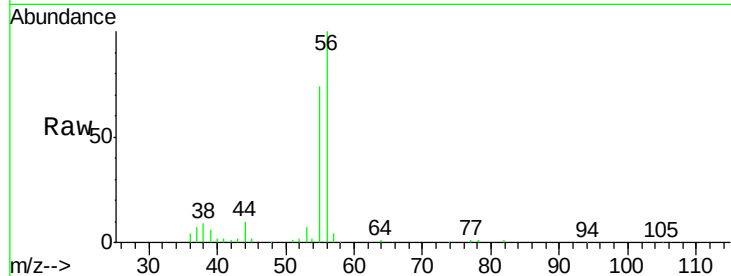
55 71.9 57.4 86.2

Manual Integrations

APPROVED

MMDadoda

9/16/2019 11:16:53 AM



Abundance Ion 56.00 (55.70 to 56.70): VU034274.D (-328) (-)

Ion 55.00 (54.70 to 55.70): VU034274.D (-328) (-)

2.18

25000

20000

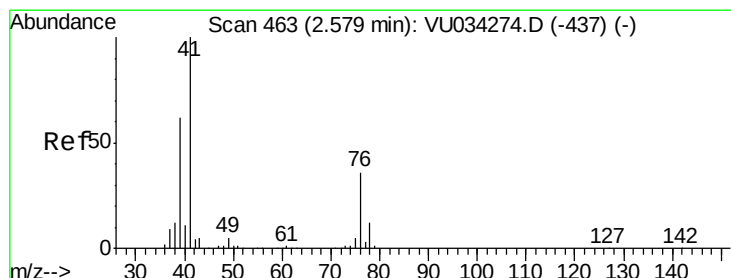
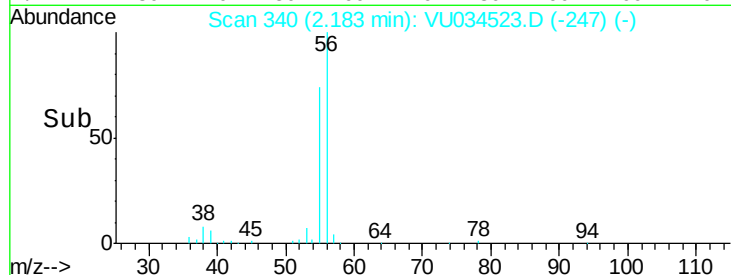
15000

10000

5000

0

Time-->



#14

Allyl chloride

Concen: 21.729 ug/l m

RT: 2.58 min Scan# 463

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

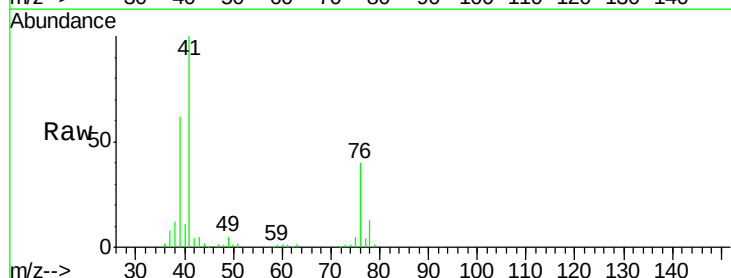
Tgt Ion: 41 Resp: 115002

Ion Ratio Lower Upper

41 100

39 55.0 43.5 65.3

76 34.7 27.0 40.6



Abundance Ion 41.00 (40.70 to 41.70): VU034274.D (-437) (-)

Ion 39.00 (38.70 to 39.70): VU034274.D (-437) (-)

Ion 75.90 (75.60 to 76.60): VU034274.D (-437) (-)

100000

80000

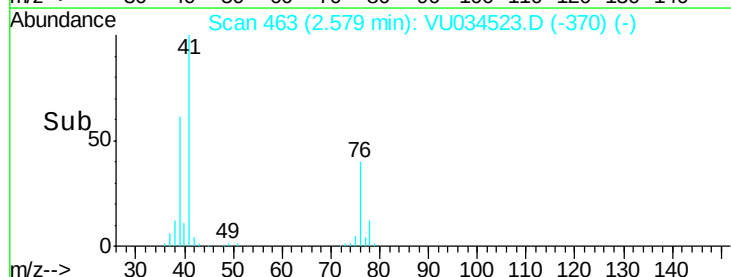
60000

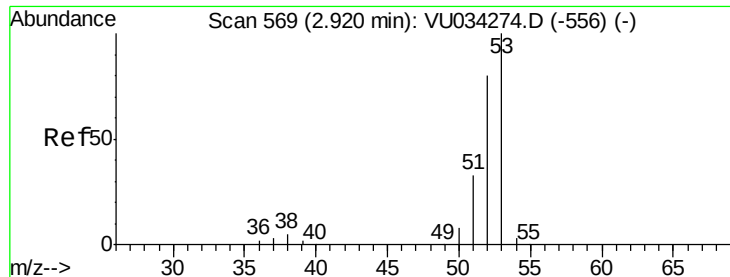
40000

20000

0

Time-->





#15

Acrylonitrile

Concen: 121.385 ug/l

RT: 2.92 min Scan# 569

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

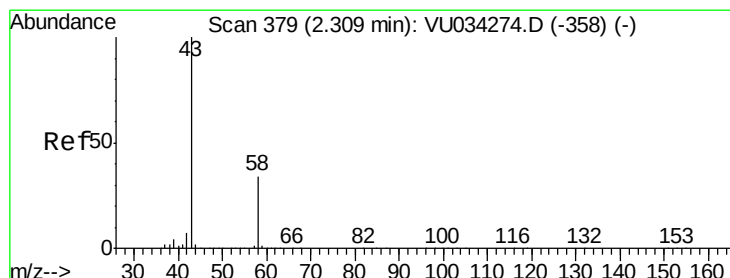
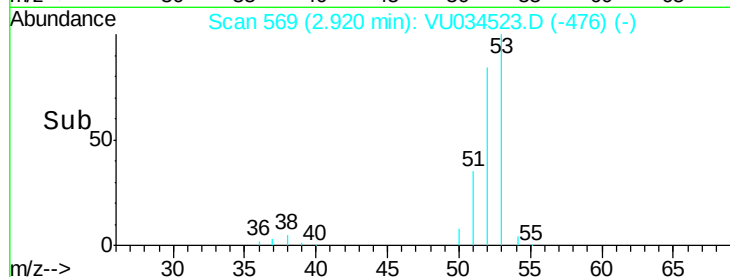
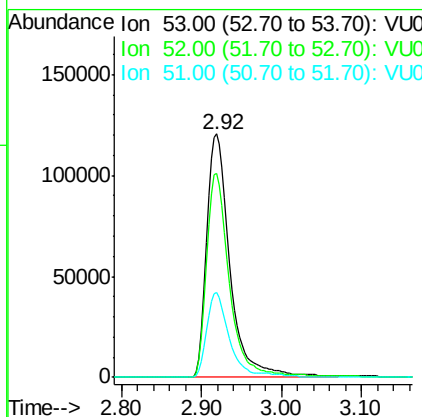
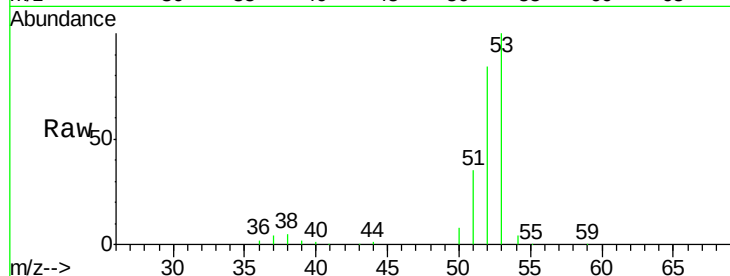
ClientSampleId :

VU0912WBS03

Tot Ion:	53	Resp:	245854
Ion	Ratio	Lower	Upper
53	100		
52	81.8	64.1	96.1
51	34.8	27.4	41.0

Manual Integrations
APPROVED

MMDadoda
9/16/2019 11:16:53 AM



#16

Acetone

Concen: 121.755 ug/l

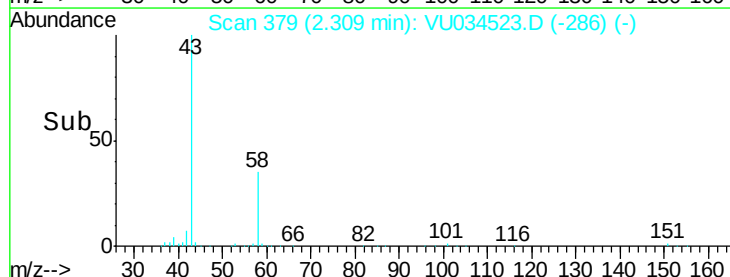
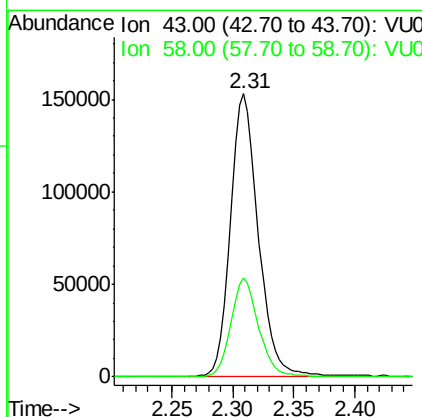
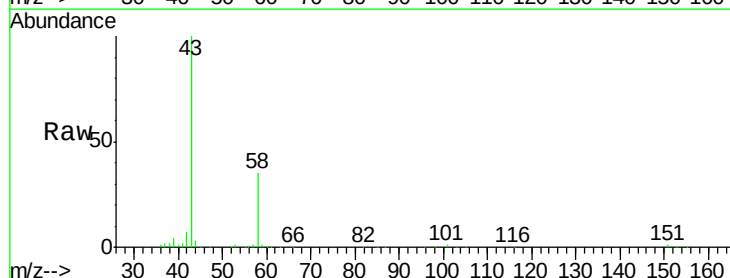
RT: 2.31 min Scan# 379

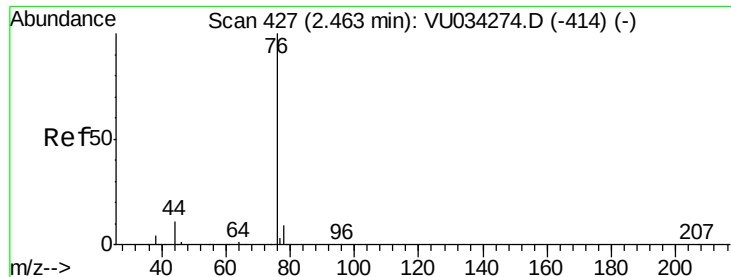
Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Tgt Ion:	43	Resp:	242571
Ion	Ratio	Lower	Upper
43	100		
58	35.0	27.6	41.4





#17

Carbon Disulfide

Concen: 18.711 ug/l

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS03

Tot Ion: 76 Resp: 116418

Ion Ratio Lower Upper

76 100

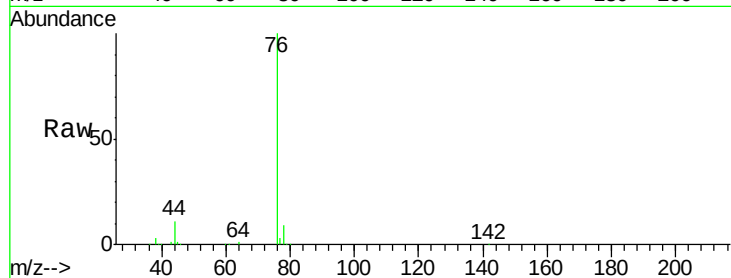
78 9.1 7.2 10.8

Manual Integrations

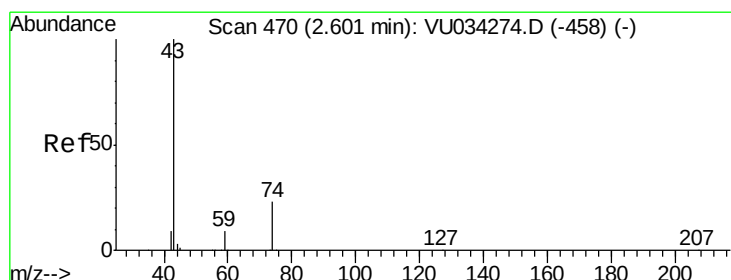
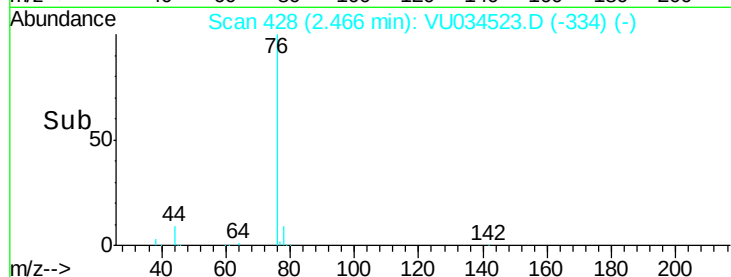
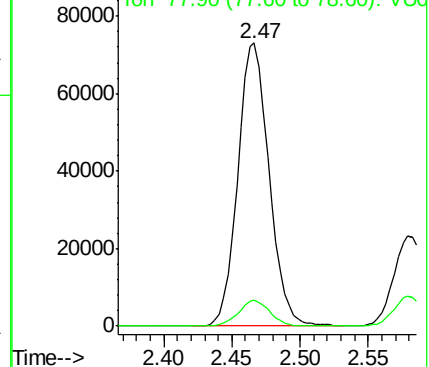
APPROVED

MMDadoda

9/16/2019 11:16:53 AM



Abundance Ion 75.90 (75.60 to 76.60): VU034523.D (-334) (-)



#18

Methyl Acetate

Concen: 23.511 ug/l

RT: 2.60 min Scan# 471

Delta R.T. 0.00 min

Lab File: VU034523.D

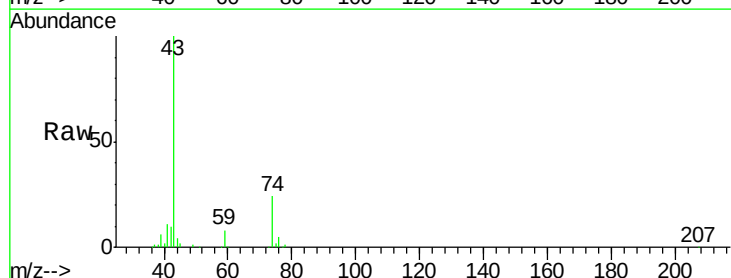
Acq: 12 Sep 2019 16:28

Tgt Ion: 43 Resp: 113975

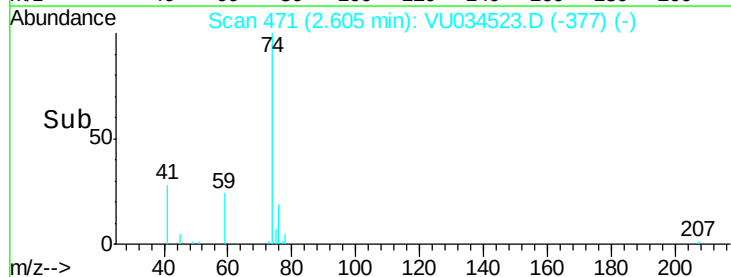
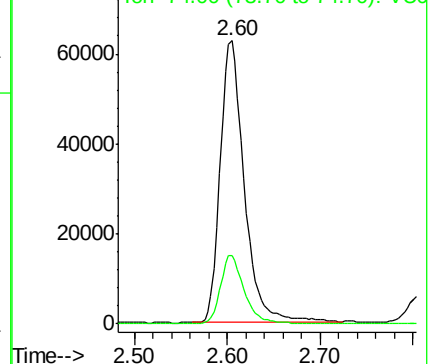
Ion Ratio Lower Upper

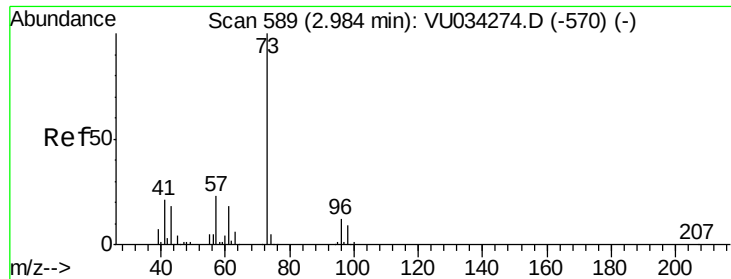
43 100

74 23.7 18.9 28.3



Abundance Ion 43.00 (42.70 to 43.70): VU034523.D (-377) (-)





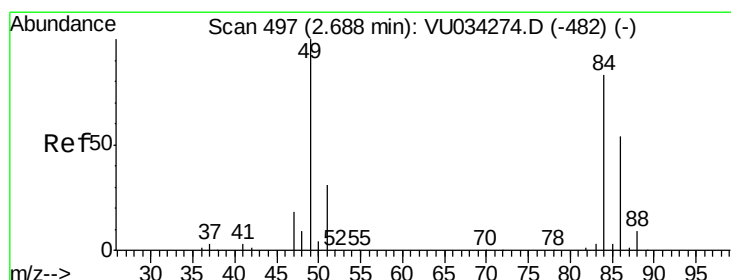
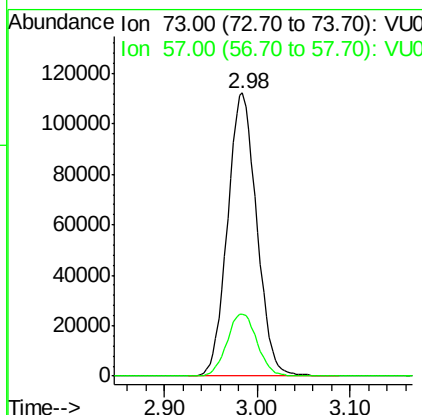
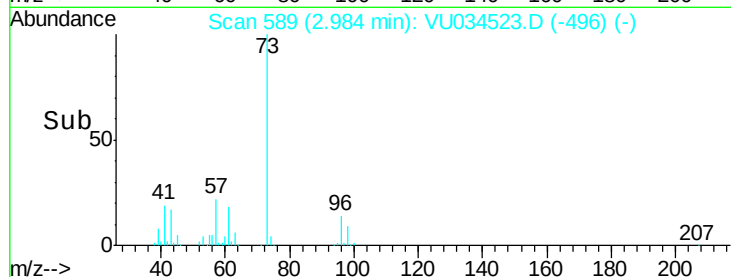
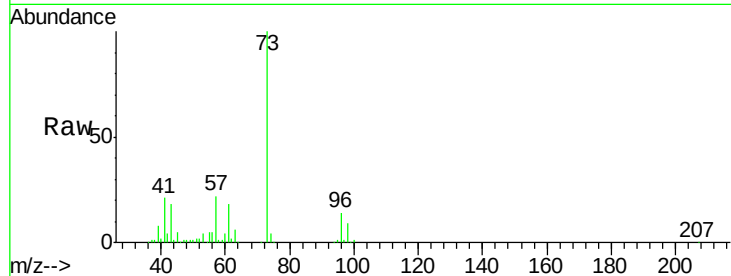
#19
Methyl tert-butyl Ether
Concen: 24.292 ug/l
RT: 2.98 min Scan# 589
Delta R.T. 0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS03

Tot Ion: 73 Resp: 245118
Ion Ratio Lower Upper
73 100
57 22.0 18.2 27.4

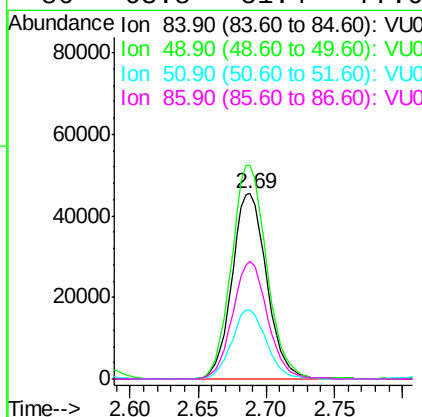
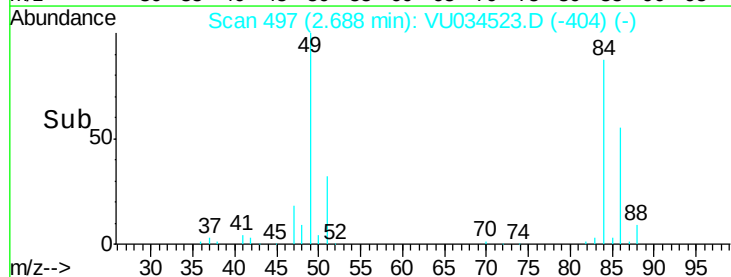
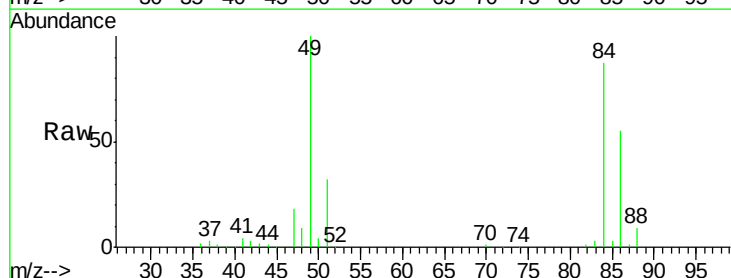
Manual Integrations
APPROVED

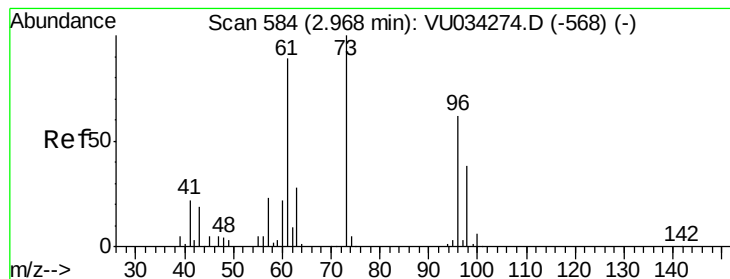
MMDadoda
9/16/2019 11:16:53 AM



#20
Methylene Chloride
Concen: 24.439 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Tgt Ion: 84 Resp: 80418
Ion Ratio Lower Upper
84 100
49 115.4 96.0 144.0
51 37.1 30.0 45.0
86 63.8 51.4 77.0





#21

trans-1,2-Dichloroethene

Concen: 22.310 ug/l

RT: 2.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS03

Tot Ion: 96 Resp: 65085

Ion Ratio Lower Upper

96 100

61 141.5 114.8 172.2

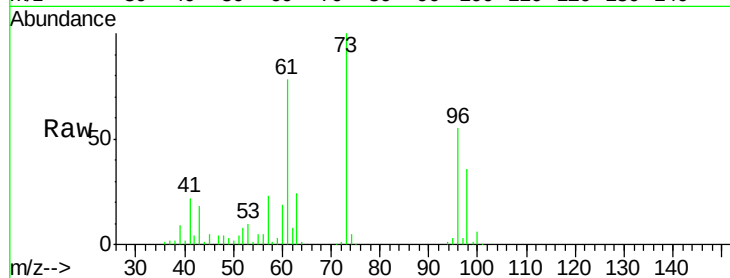
98 64.5 49.8 74.8

Manual Integrations

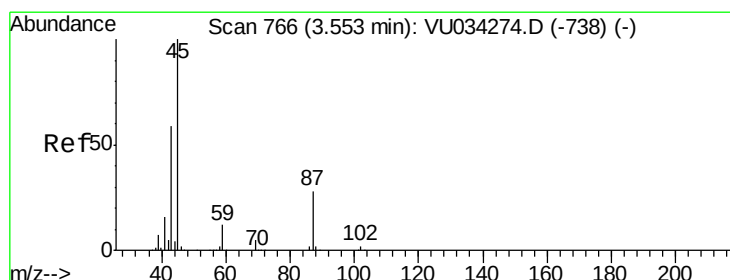
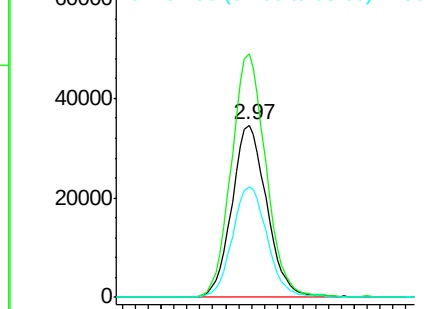
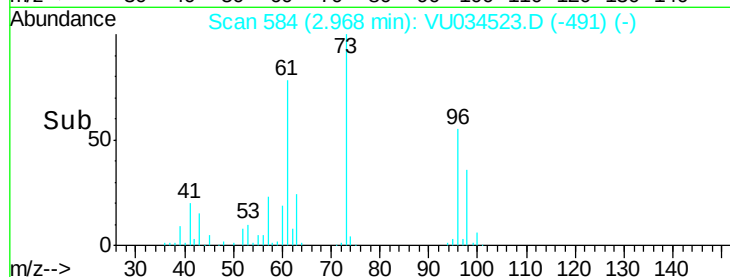
APPROVED

MMDadoda

9/16/2019 11:16:53 AM



Abundance Ion 95.90 (95.60 to 96.60): VU034523.D (-491) (-)



#22

Diisopropyl ether

Concen: 24.583 ug/l

RT: 3.55 min Scan# 765

Delta R.T. -0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Tgt Ion: 45 Resp: 253737

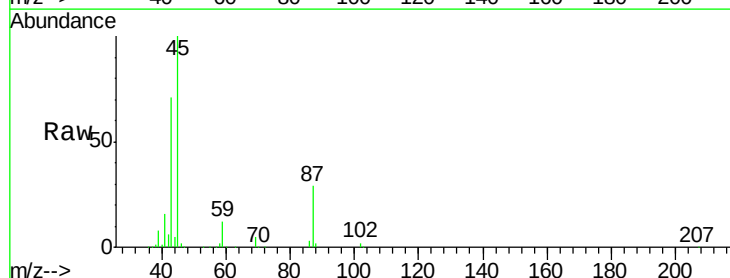
Ion Ratio Lower Upper

45 100

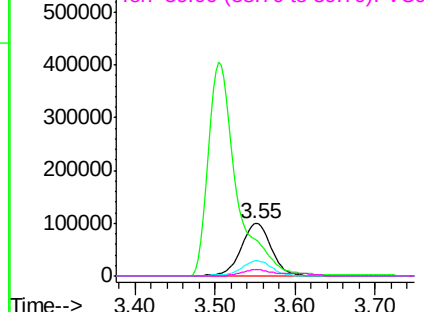
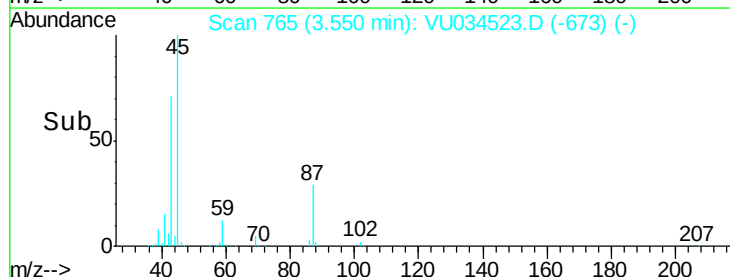
43 69.9 47.5 71.3

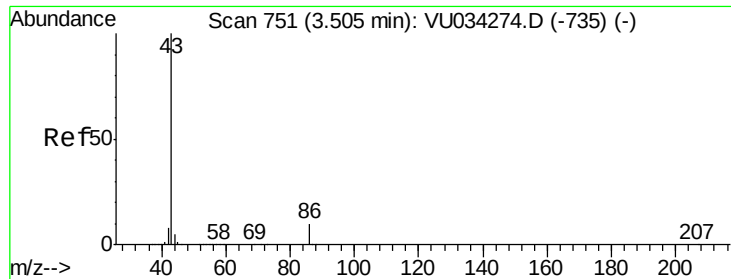
87 29.0 22.2 33.4

59 12.2 9.4 14.2



Abundance Ion 45.00 (44.70 to 45.70): VU034523.D (-673) (-)





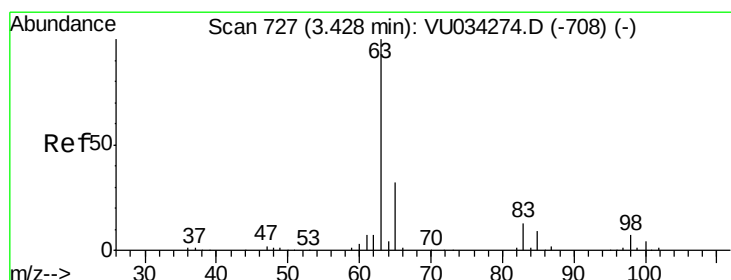
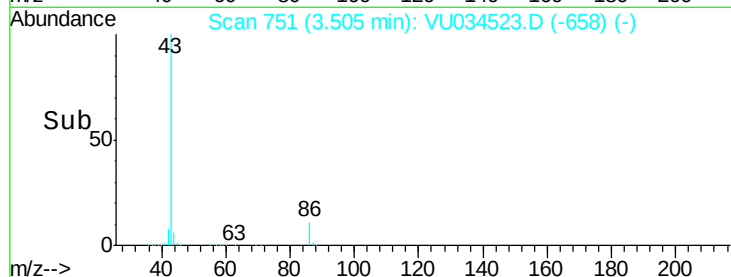
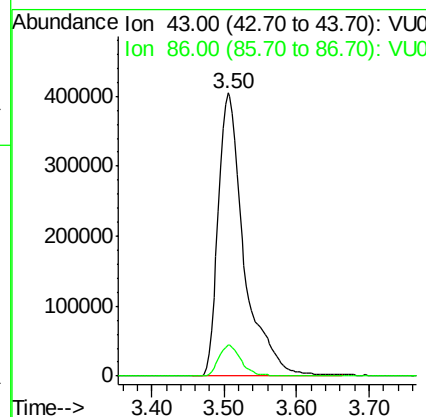
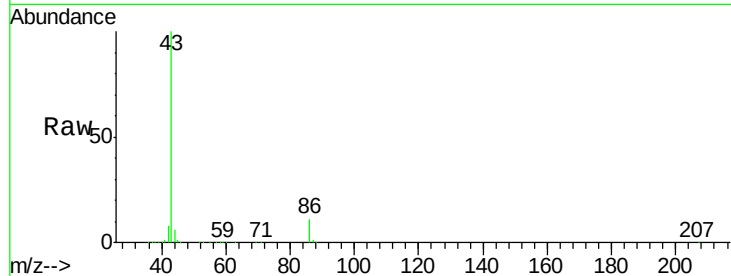
#23
 Vinyl Acetate
 Concen: 119.365 ug/l
 RT: 3.50 min Scan# 751
 Delta R.T. 0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS03

Tot Ion: 43 Resp: 1003554
 Ion Ratio Lower Upper
 43 100
 86 10.8 8.3 12.5

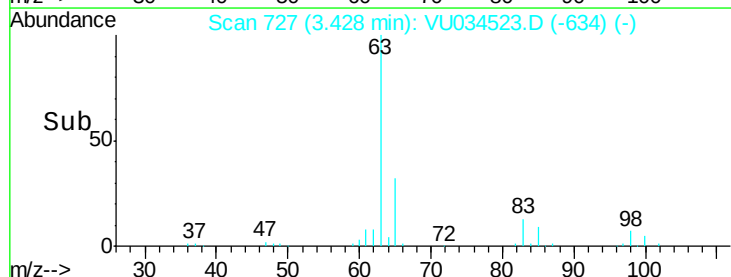
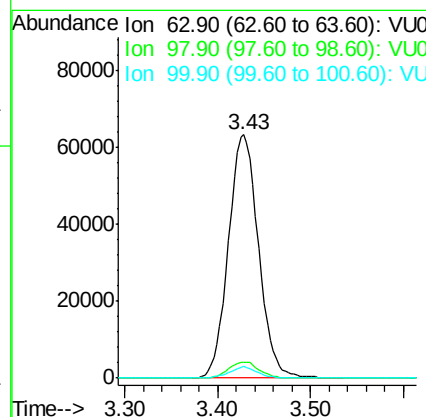
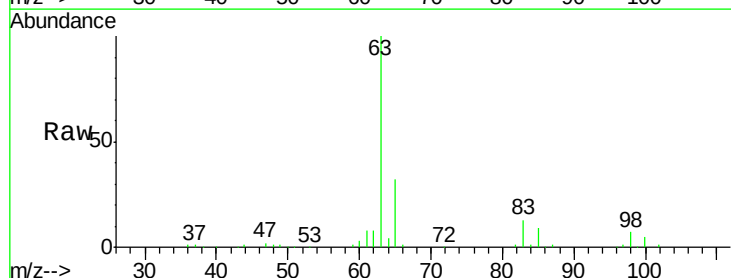
Manual Integrations
 APPROVED

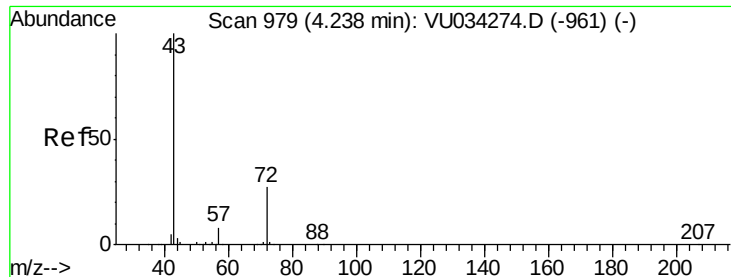
MMDadoda
 9/16/2019 11:16:53 AM



#24
 1,1-Dichloroethane
 Concen: 23.143 ug/l
 RT: 3.43 min Scan# 727
 Delta R.T. 0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Tgt Ion: 63 Resp: 142649
 Ion Ratio Lower Upper
 63 100
 98 6.5 3.5 10.4
 100 4.7 2.1 6.5





#25

2-Butanone

Concen: 124.101 ug/l

RT: 4.24 min Scan# 979

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

ClientSampled :

VU0912WBS03

Tot Ion: 43 Resp: 330040

Ion Ratio Lower Upper

43 100

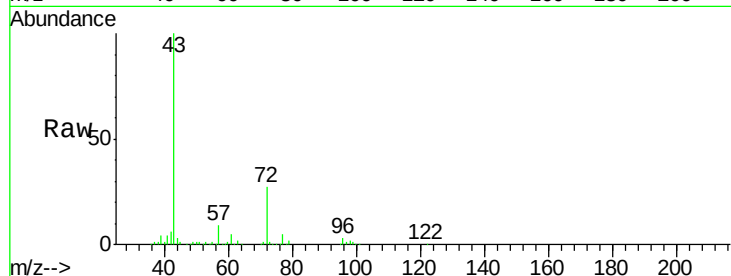
72 27.3 21.8 32.6

Manual Integrations

APPROVED

MMDadoda

9/16/2019 11:16:53 AM



Abundance Ion 43.00 (42.70 to 43.70): VU034523.D (-886) (-)

Ion 72.00 (71.70 to 72.70): VU034523.D (-886) (-)

150000

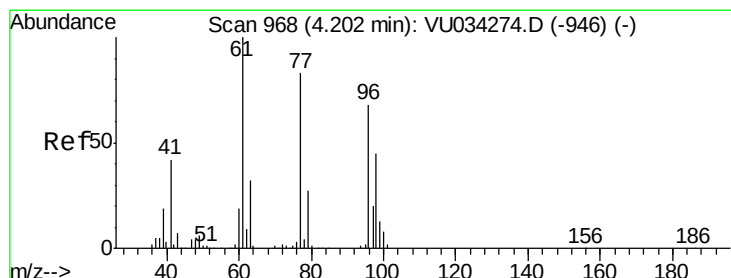
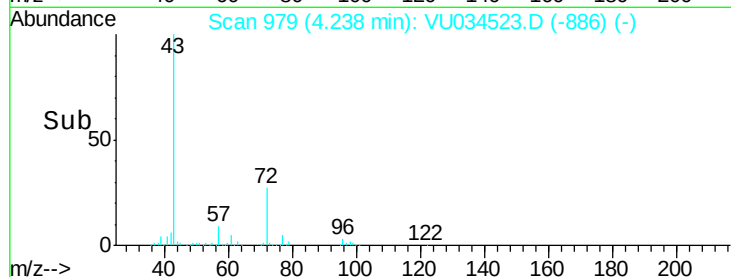
100000

50000

0

4.15 4.20 4.25 4.30 4.35

Time-->



#26

2,2-Dichloropropane

Concen: 24.141 ug/l

RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

Lab File: VU034523.D

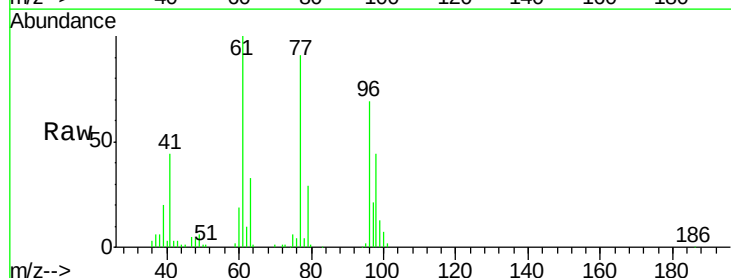
Acq: 12 Sep 2019 16:28

Tgt Ion: 77 Resp: 119679

Ion Ratio Lower Upper

77 100

97 23.5 11.8 35.3



Abundance Ion 76.90 (76.60 to 77.60): VU034523.D (-875) (-)

Ion 96.90 (96.60 to 97.60): VU034523.D (-875) (-)

50000

40000

30000

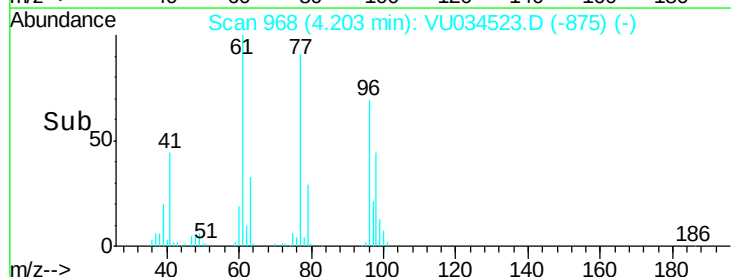
20000

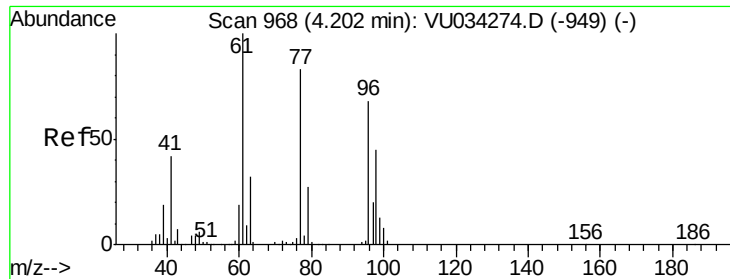
10000

0

4.10 4.20 4.30

Time-->





#27

cis-1,2-Dichloroethene

Concen: 23.687 ug/l

RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

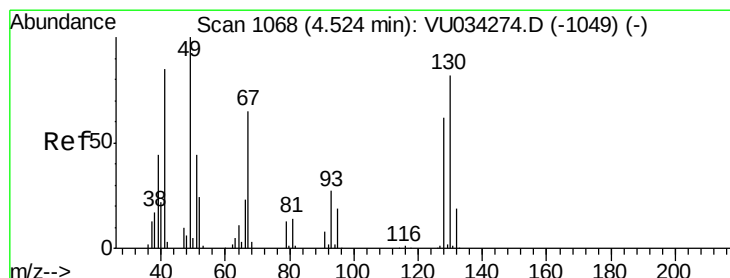
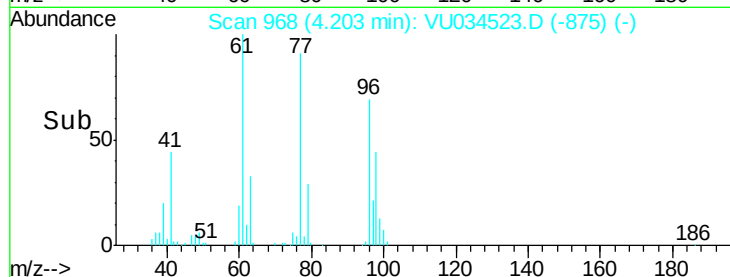
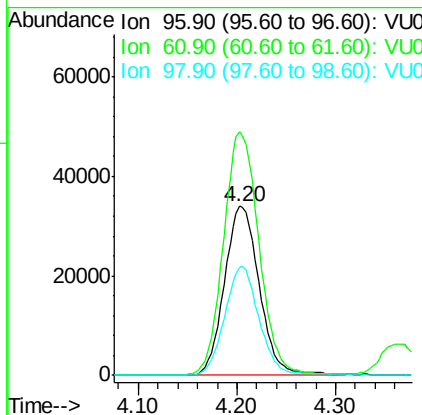
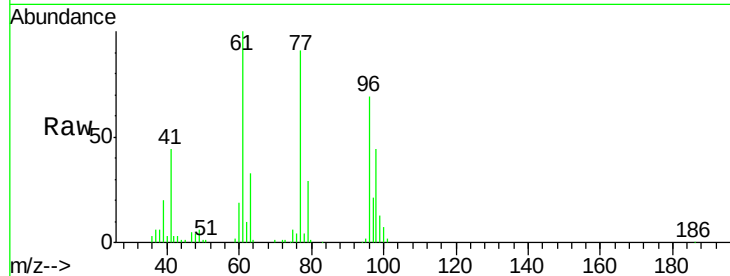
ClientSampleId :

VU0912WBS03

Tot Ion:	96	Resp:	83929
Ion	Ratio	Lower	Upper
96	100		
61	146.6	0.0	297.4
98	63.7	0.0	130.0

Manual Integrations
APPROVED

MMDadoda
9/16/2019 11:16:53 AM



#28

Bromochloromethane

Concen: 26.788 ug/l

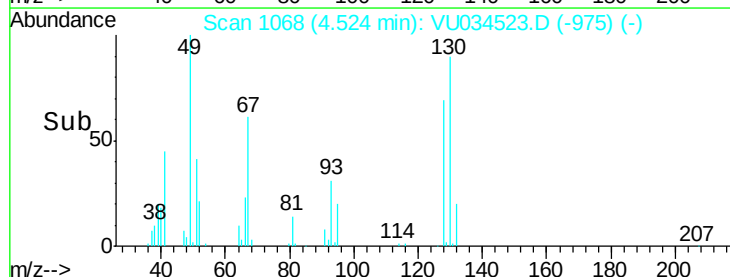
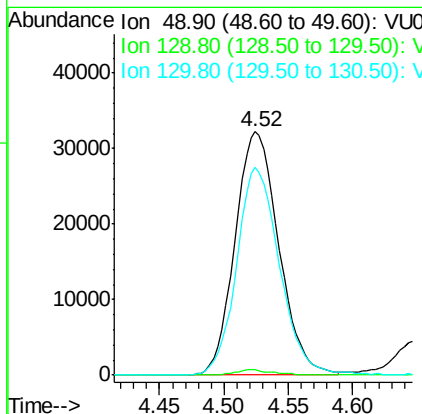
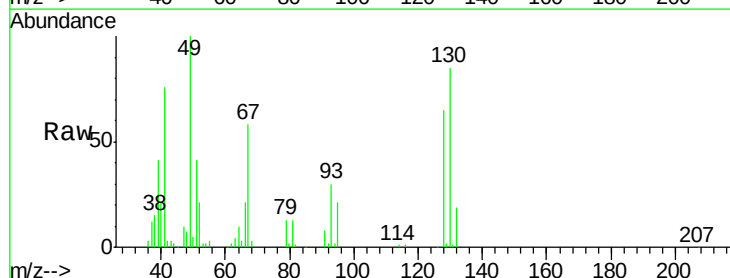
RT: 4.52 min Scan# 1068

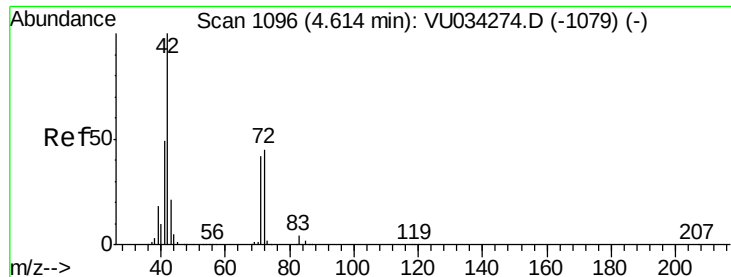
Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Tgt Ion:	49	Resp:	75949
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	84.1	65.2	97.8





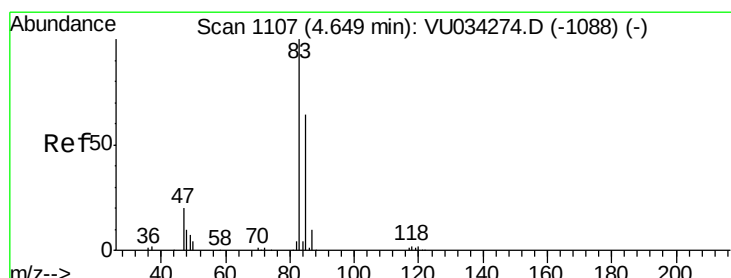
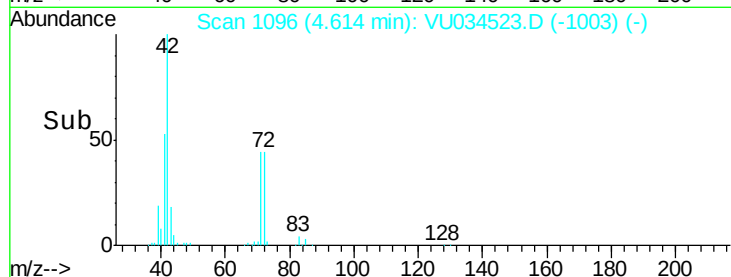
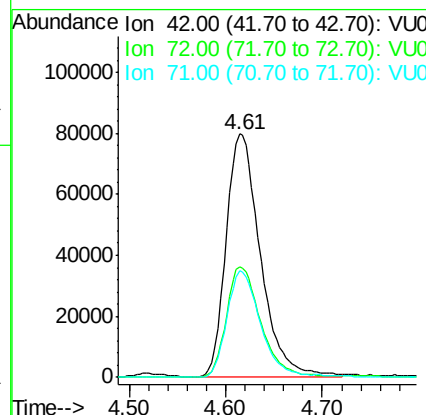
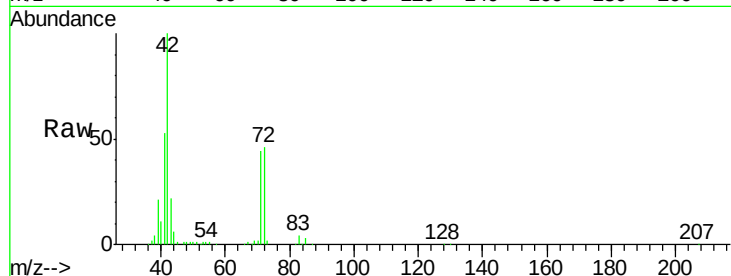
#29
Tetrahydrofuran
Concen: 120.899 ug/l
RT: 4.61 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS03

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.0	36.6	54.8
71	42.8	34.3	51.5

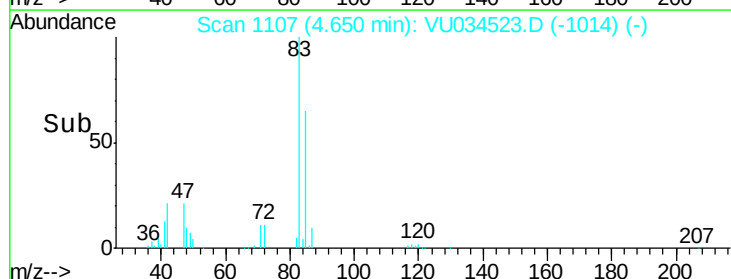
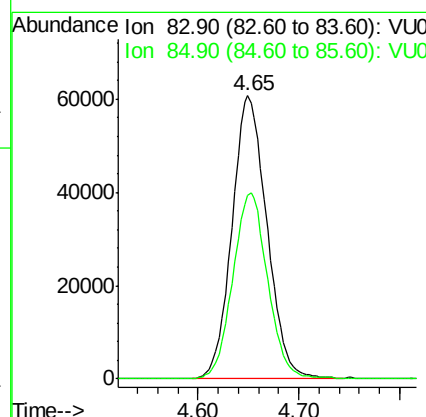
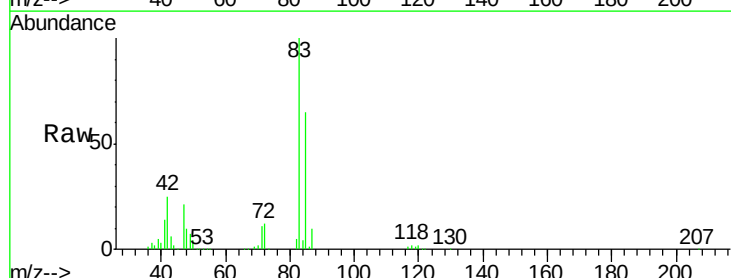
Manual Integrations
APPROVED

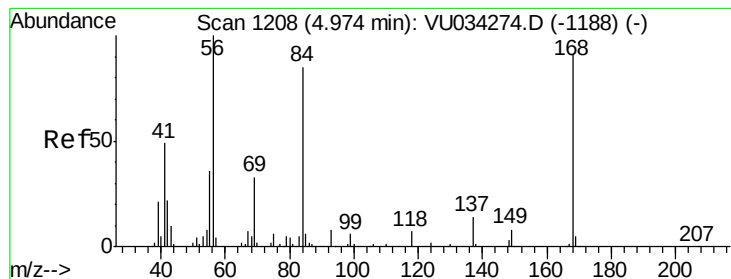
MMDadoda
9/16/2019 11:16:53 AM



#30
Chloroform
Concen: 23.339 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.5	77.3





#31

Cyclohexane

Concen: 21.747 ug/l

RT: 4.97 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS03

Tot Ion: 56 Resp: 98068

Ion Ratio Lower Upper

56 100

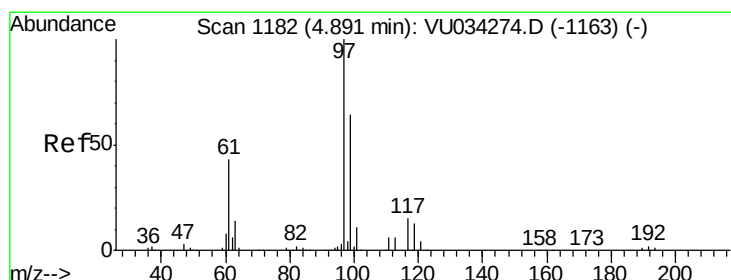
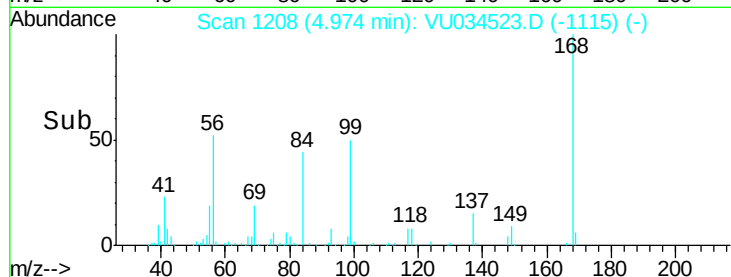
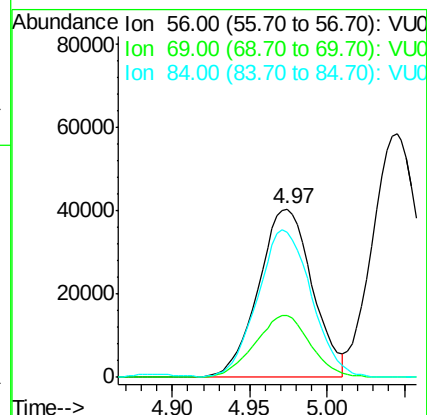
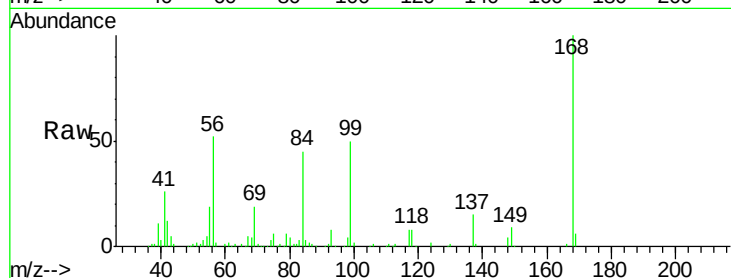
69 36.5 26.7 40.1

84 85.8 68.2 102.4

Manual Integrations
APPROVED

MMDadoda

9/16/2019 11:16:53 AM



#32

1,1,1-Trichloroethane

Concen: 23.903 ug/l

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

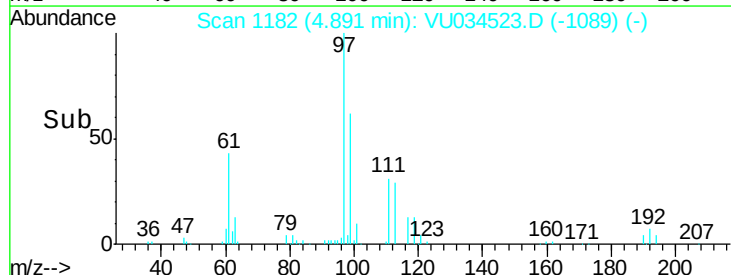
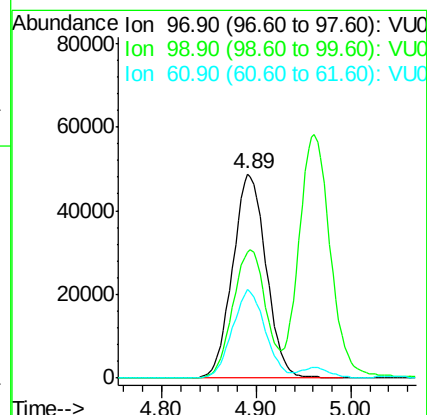
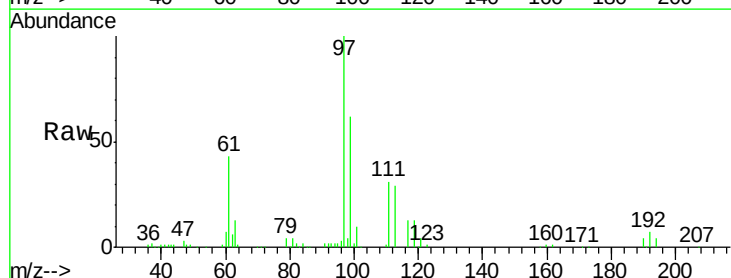
Tgt Ion: 97 Resp: 119740

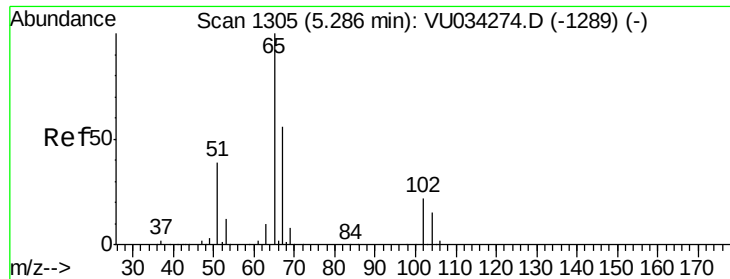
Ion Ratio Lower Upper

97 100

99 62.3 50.9 76.3

61 42.4 34.7 52.1





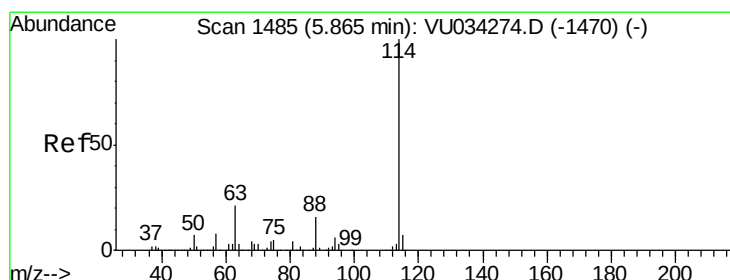
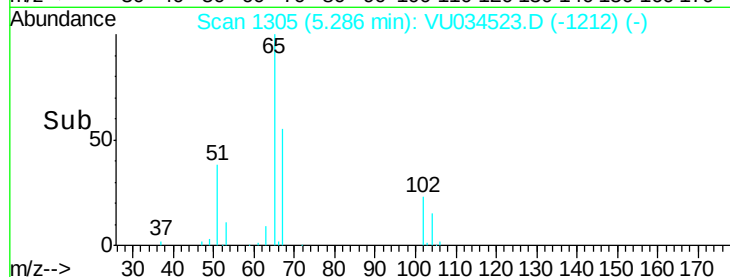
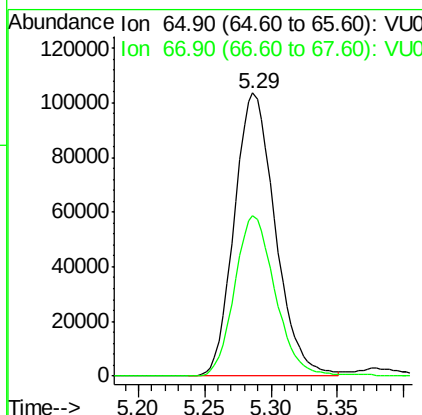
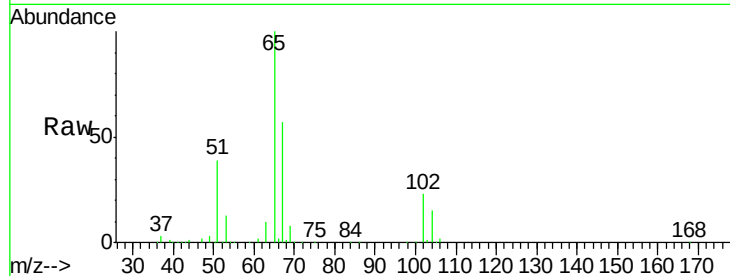
#33
 1,2-Dichloroethane-d4
 Concen: 57.702 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS03

Tot Ion	Ratio	Resp	Lower	Upper
65	100	222147		
67	56.3	0.0	112.4	

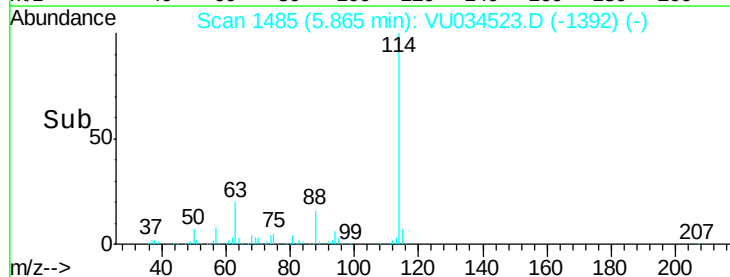
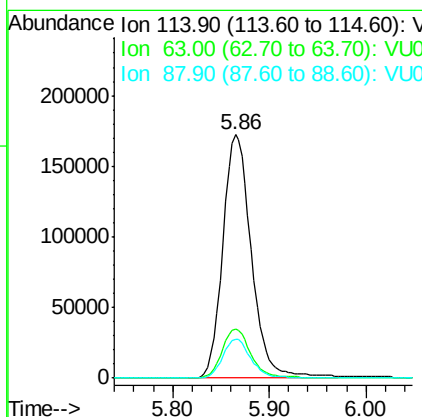
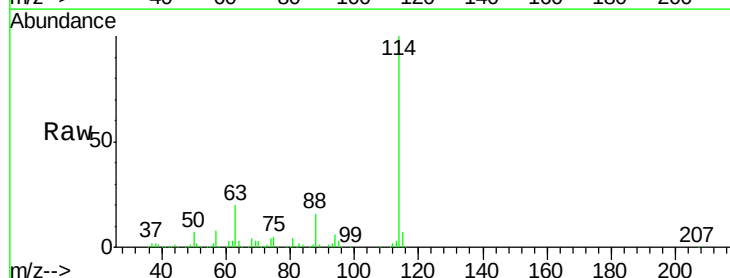
Manual Integrations
 APPROVED

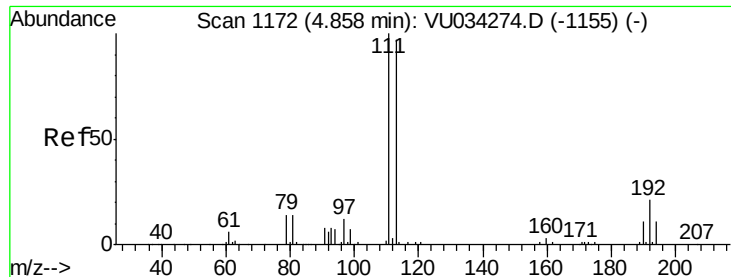
MMDadoda
 9/16/2019 11:16:53 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	355258		
63	20.4	0.0	42.4	
88	16.0	0.0	32.4	





#35

Dibromofluoromethane

Concen: 60.755 ug/l

RT: 4.86 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

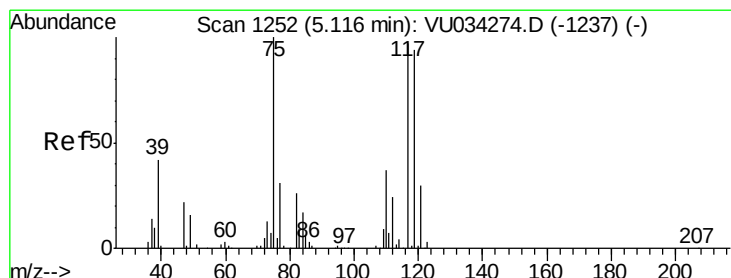
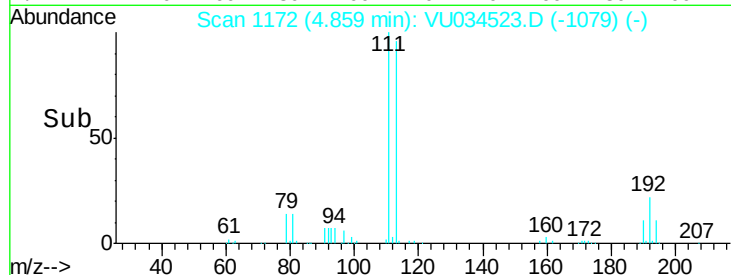
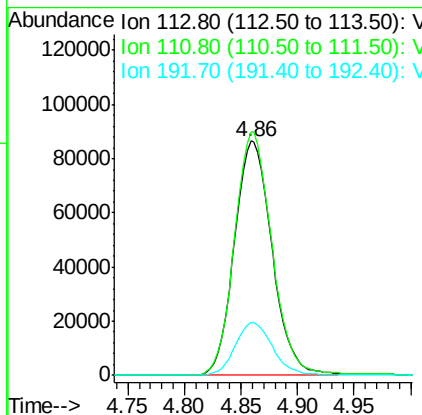
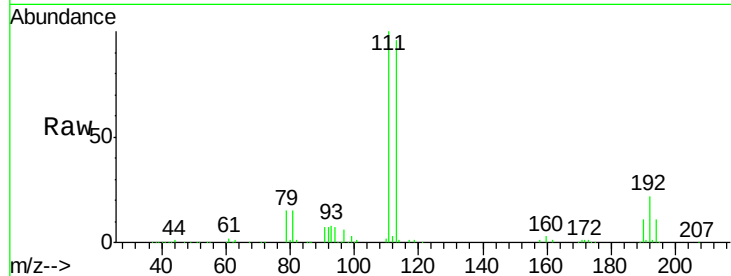
ClientSampleId :

VU0912WBS03

Tot Ion:	113	Resp:	200837
Ion Ratio	Lower	Upper	
113	100		
111	103.3	81.5	122.3
192	22.4	17.8	26.8

Manual Integrations
APPROVED

MMDadoda
9/16/2019 11:16:53 AM



#36

1,1-Dichloropropene

Concen: 23.147 ug/l

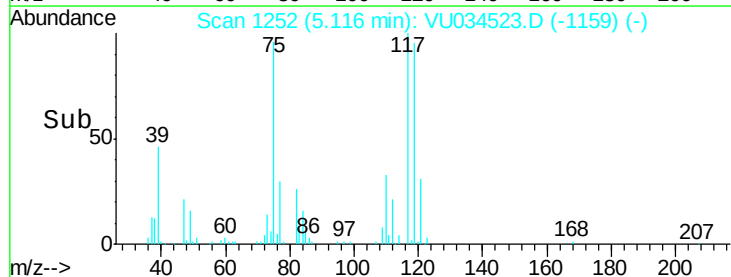
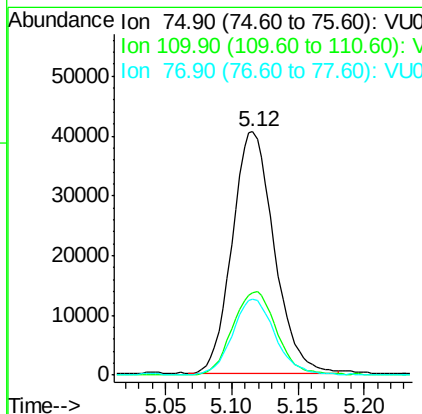
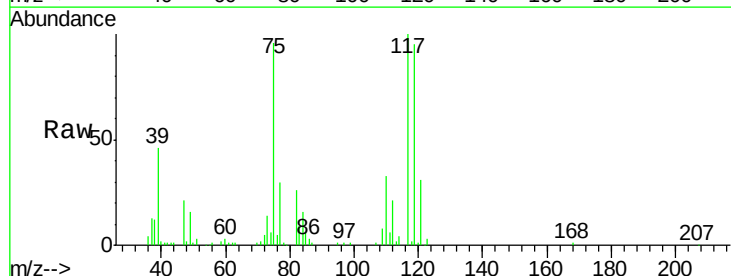
RT: 5.12 min Scan# 1252

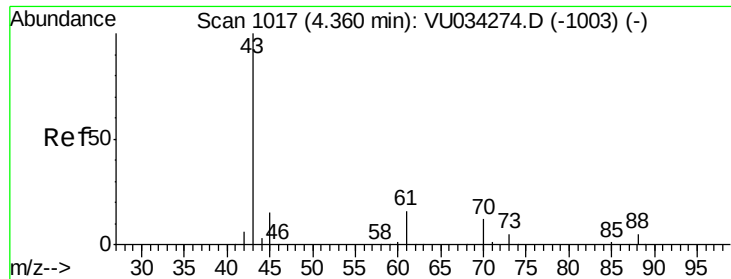
Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Tgt Ion:	75	Resp:	89180
Ion Ratio	Lower	Upper	
75	100		
110	36.3	18.3	54.9
77	31.2	24.9	37.3





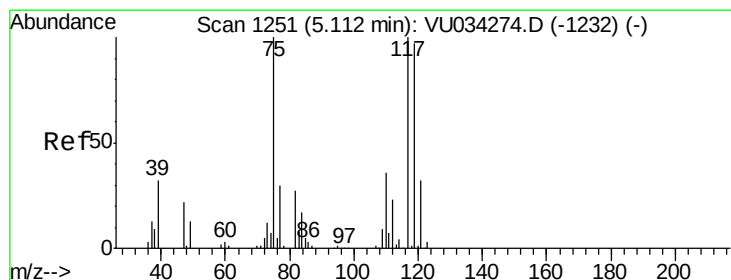
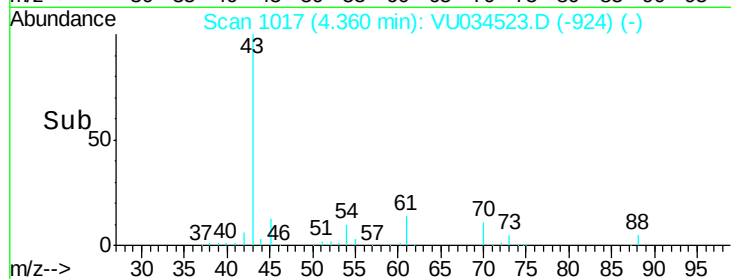
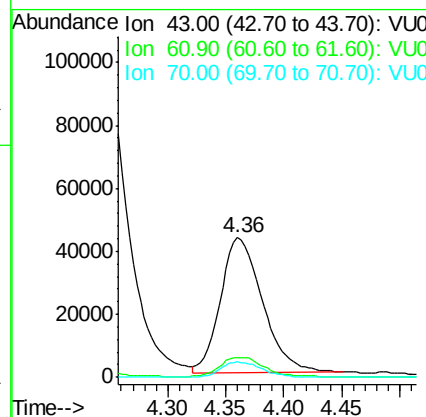
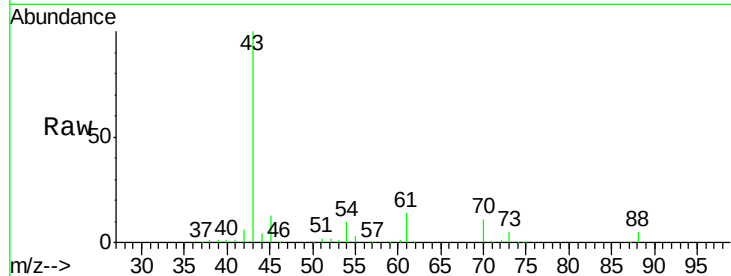
#37
Ethyl Acetate
Concen: 23.901 ug/l
RT: 4.36 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS03

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.9	12.3	18.5
70	11.5	9.1	13.7

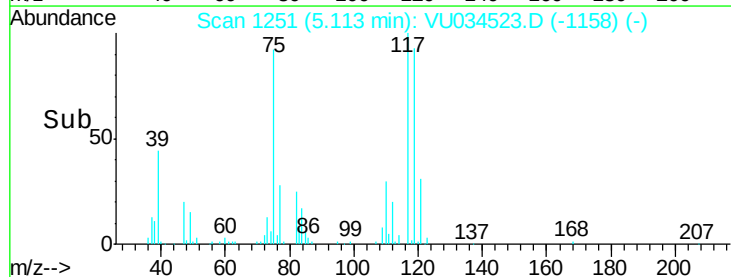
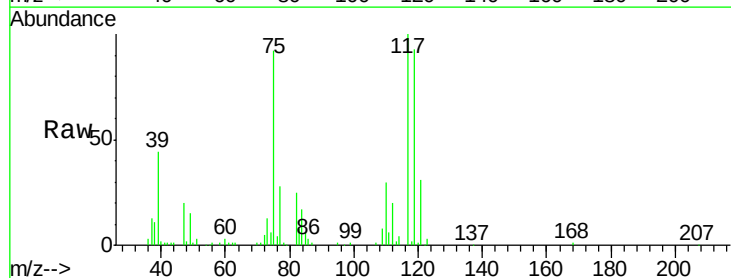
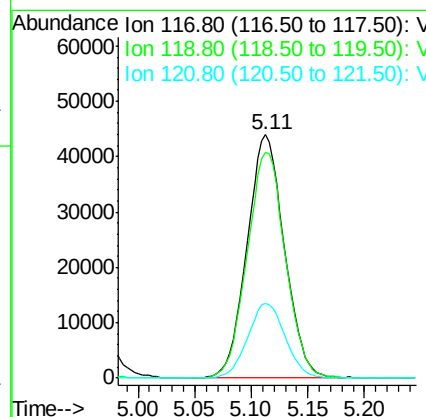
Manual Integrations
APPROVED

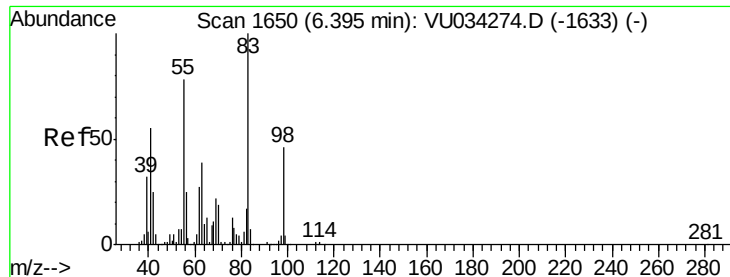
MMDadoda
9/16/2019 11:16:53 AM



#38
Carbon Tetrachloride
Concen: 24.521 ug/l
RT: 5.11 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.8	77.8	116.6
121	30.8	25.2	37.8





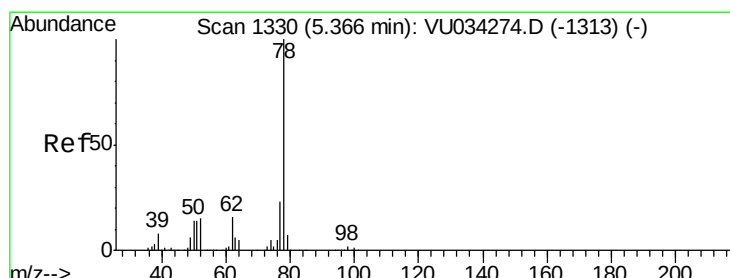
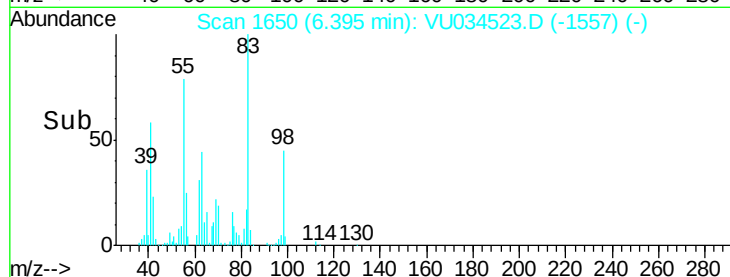
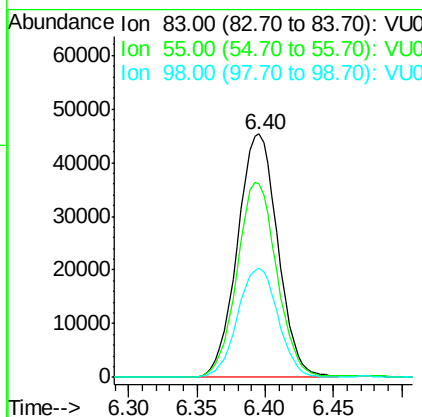
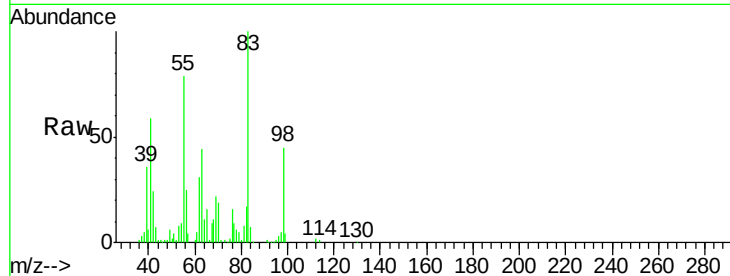
#39
Methylvlcyclohexane
Concen: 22.654 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS03

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.3	62.1	93.1
98	44.7	37.0	55.6

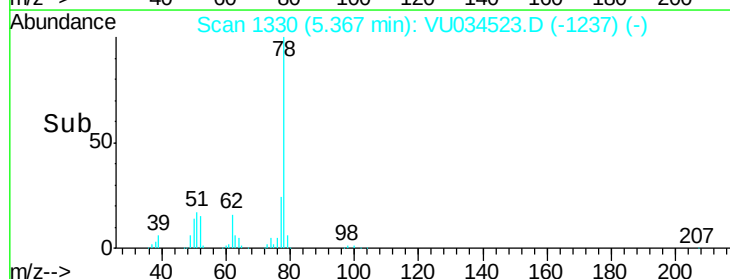
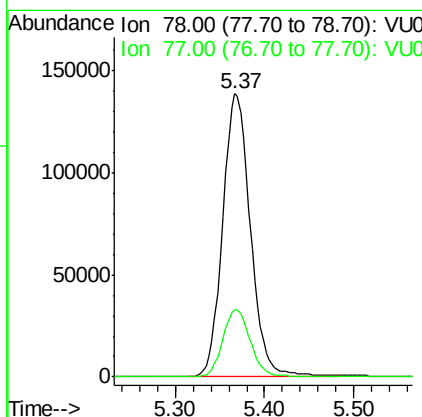
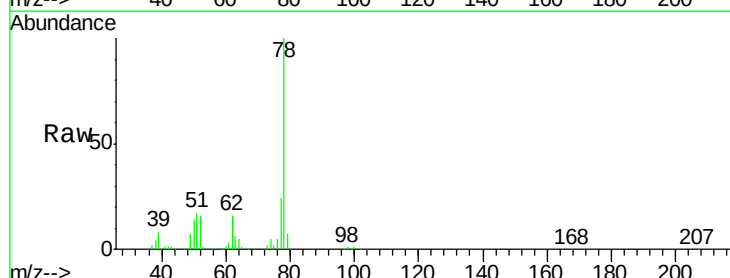
Manual Integrations
APPROVED

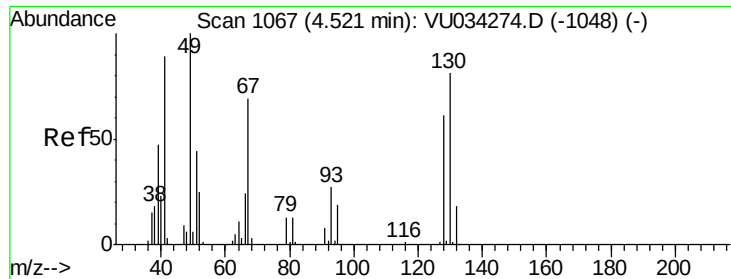
MMDadoda
9/16/2019 11:16:53 AM



#40
Benzene
Concen: 24.069 ug/l
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.7	28.1





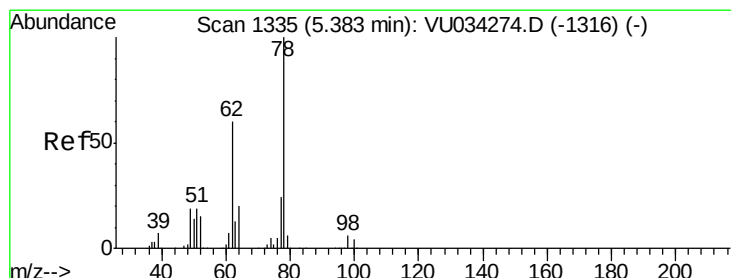
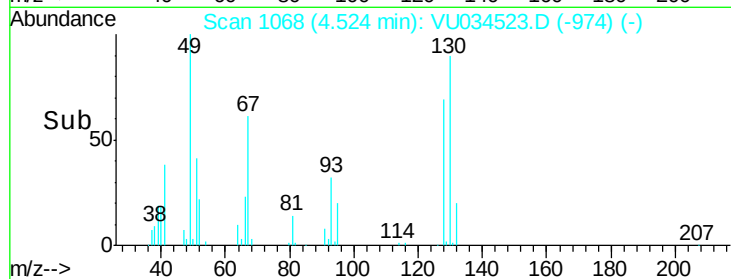
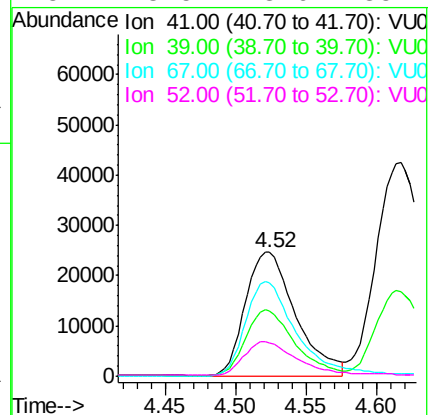
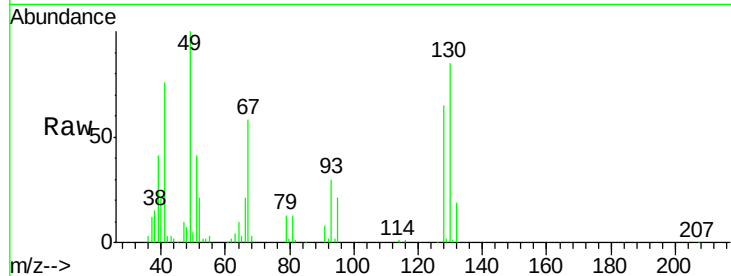
#41
Methacrylonitrile
Concen: 25.505 ug/l
RT: 4.52 min Scan# 1068
Delta R.T. 0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS03

Tot Ion	Ratio	Lower	Upper
41	100		
39	52.5	41.0	61.4
67	78.8	62.4	93.6
52	28.5	23.6	35.4

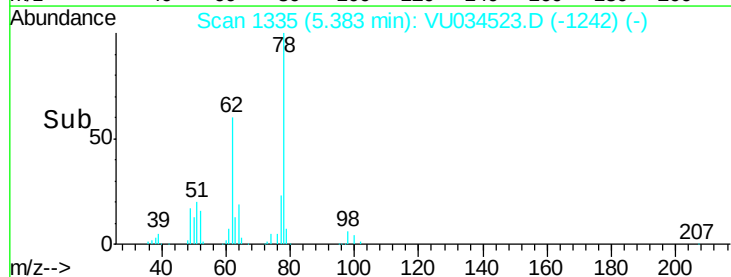
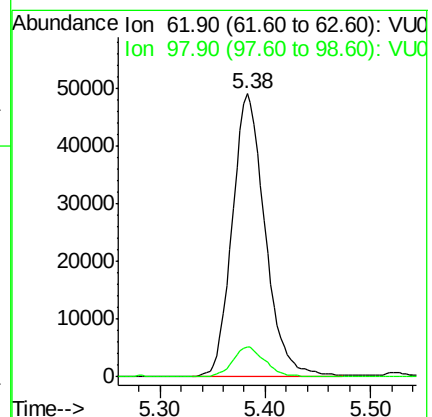
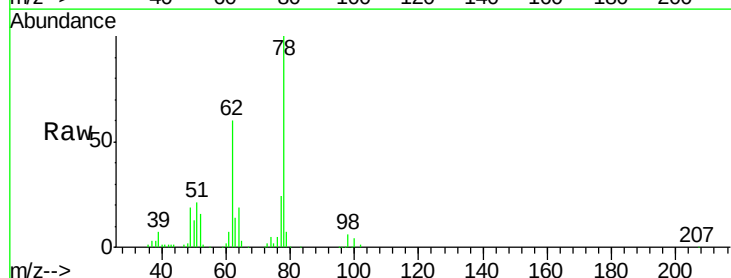
Manual Integrations
APPROVED

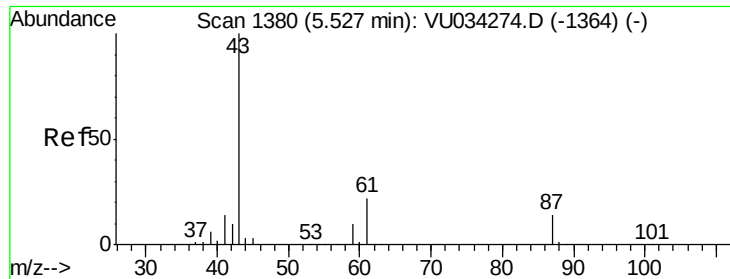
MMDadoda
9/16/2019 11:16:53 AM



#42
1,2-Dichloroethane
Concen: 24.556 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	20.0





#43

Isopropyl Acetate

Concen: 24.420 ug/l

RT: 5.53 min Scan# 1380

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

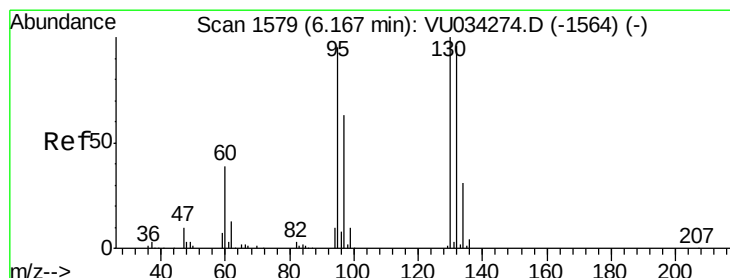
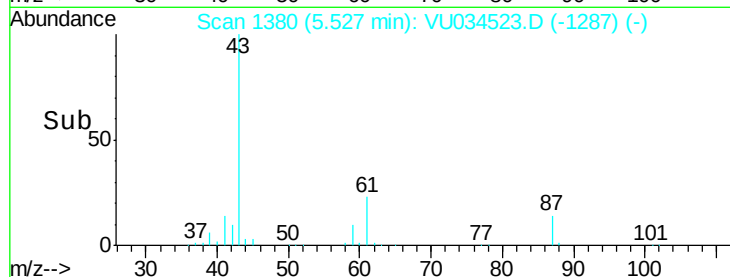
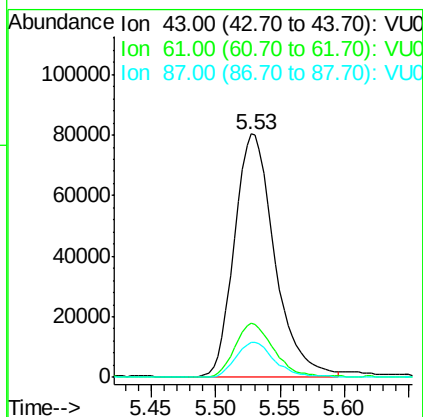
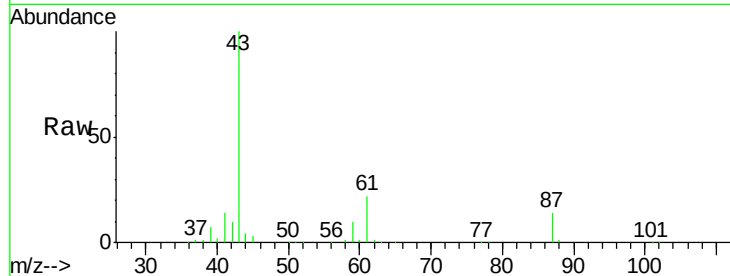
ClientSampleId :

VU0912WBS03

Tot Ion:	43	Resp:	173531
Ion	Ratio	Lower	Upper
43	100		
61	21.8	17.1	25.7
87	14.2	11.1	16.7

Manual Integrations
APPROVED

MMDadoda
9/16/2019 11:16:53 AM



#44

Trichloroethene

Concen: 23.160 ug/l

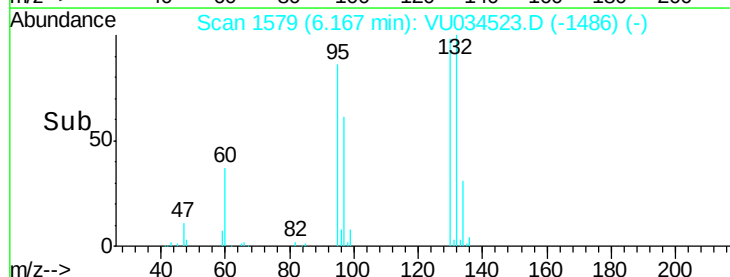
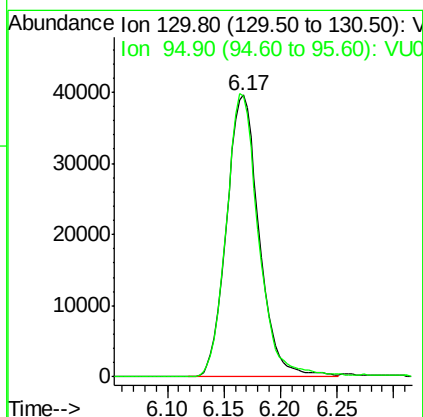
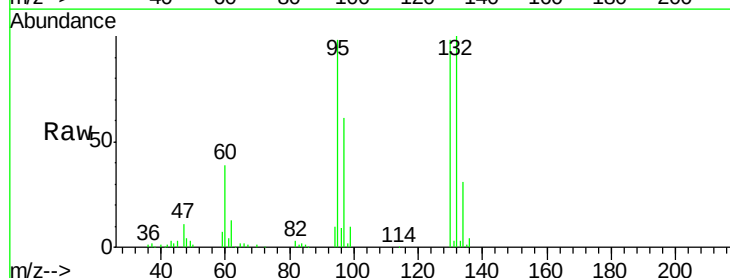
RT: 6.17 min Scan# 1579

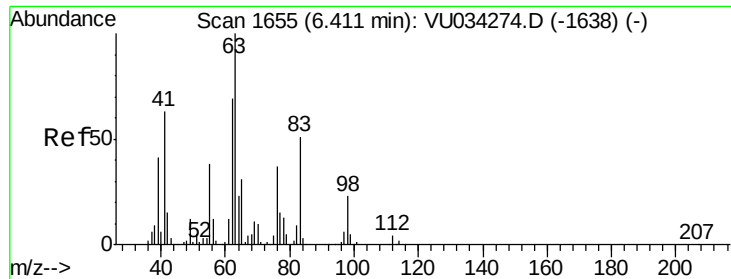
Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Tgt Ion:	130	Resp:	79675
Ion	Ratio	Lower	Upper
130	100		
95	99.8	0.0	189.2





#45

1,2-Dichloropropane

Concen: 24.305 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS03

Tot Ion: 63 Resp: 88333

Ion Ratio Lower Upper

63 100

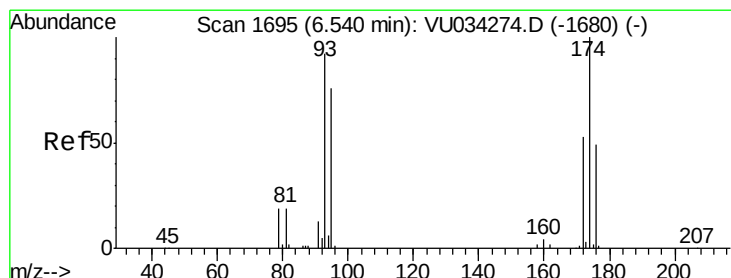
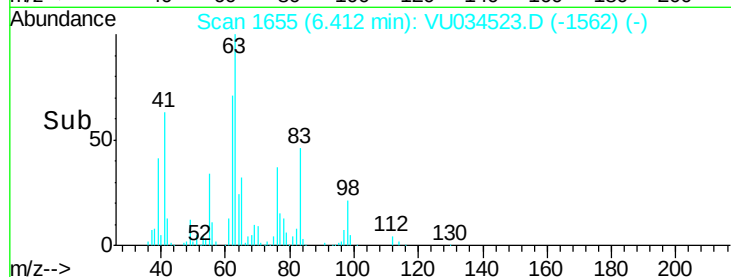
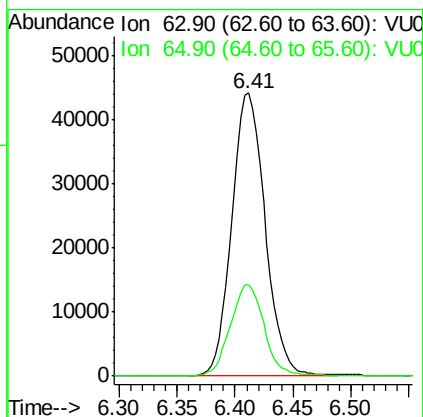
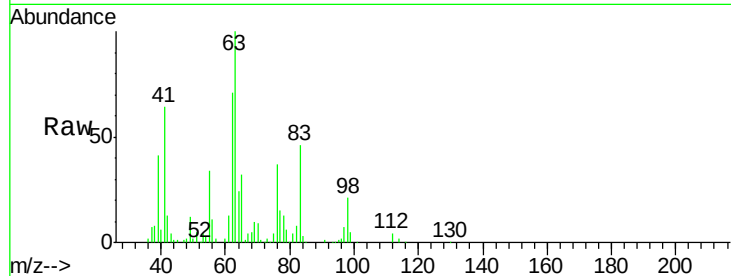
65 32.2 24.6 37.0

Manual Integrations

APPROVED

MMDadoda

9/16/2019 11:16:53 AM



#46

Dibromomethane

Concen: 24.930 ug/l

RT: 6.54 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

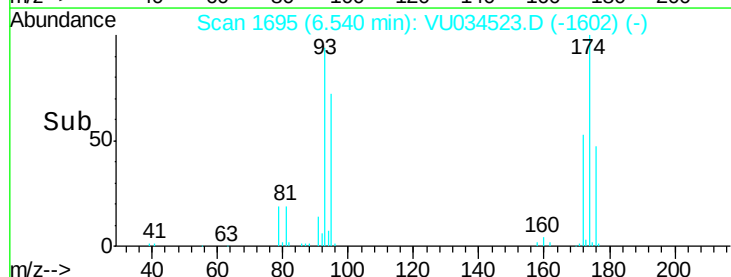
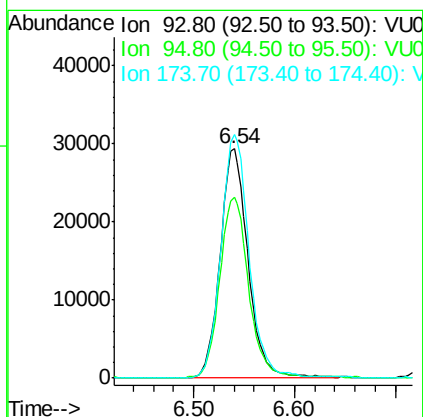
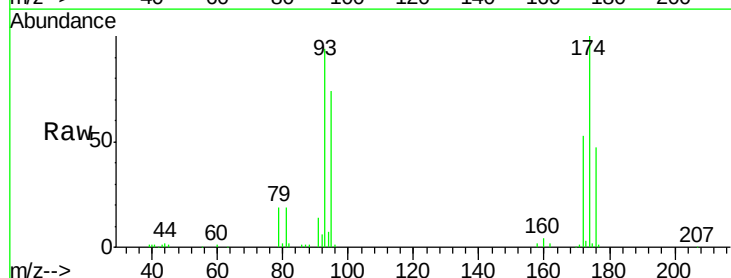
Tgt Ion: 93 Resp: 56873

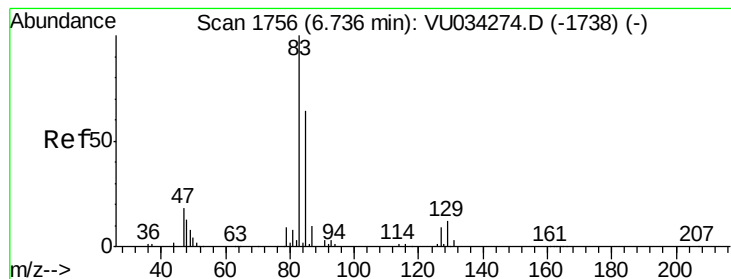
Ion Ratio Lower Upper

93 100

95 81.6 66.5 99.7

174 106.7 87.8 131.6





#47

Bromodichloromethane

Concen: 24.659 ug/l

RT: 6.73 min Scan# 1755

Delta R.T. -0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

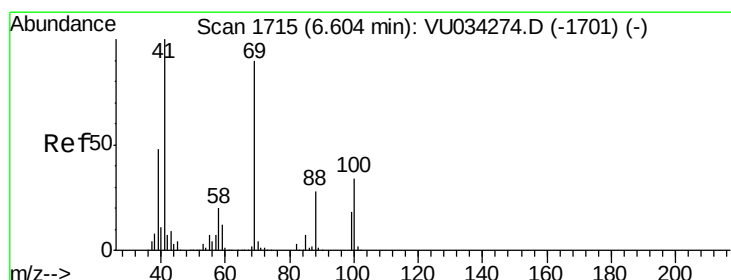
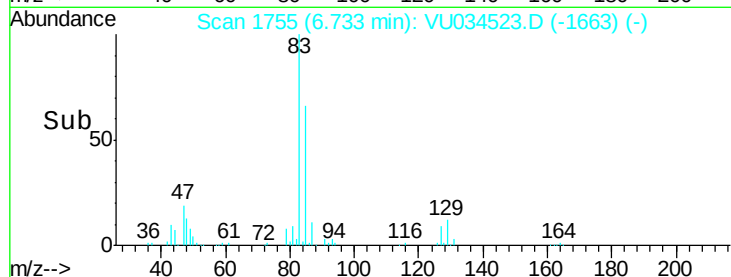
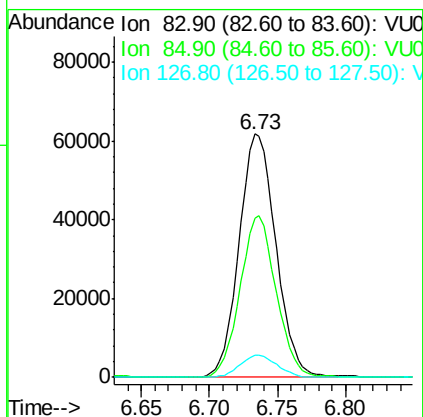
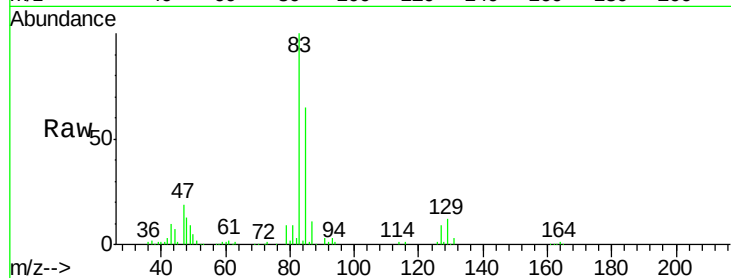
ClientSampleId :

VU0912WBS03

Tot Ion:	83	Resp:	115796
Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.1	76.7
127	8.9	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
9/16/2019 11:16:53 AM



#48

Methyl methacrylate

Concen: 23.475 ug/l

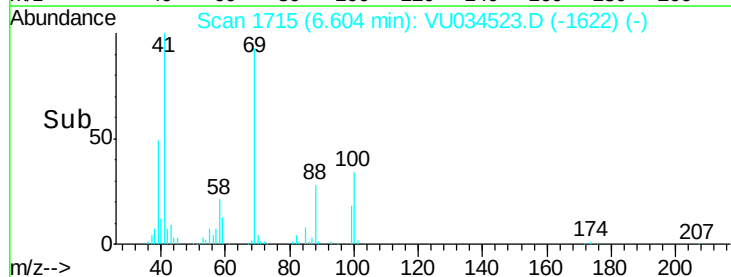
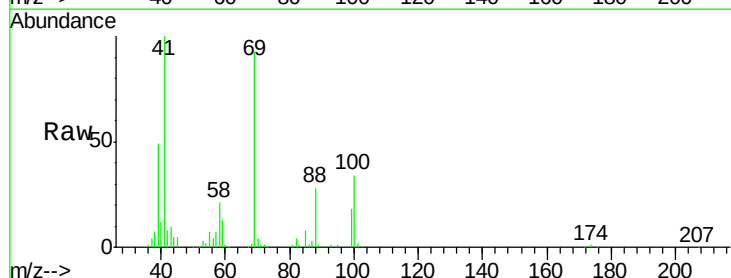
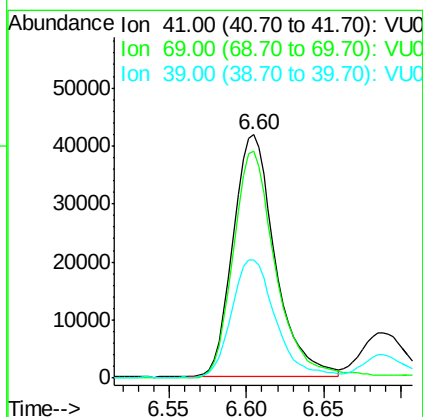
RT: 6.60 min Scan# 1715

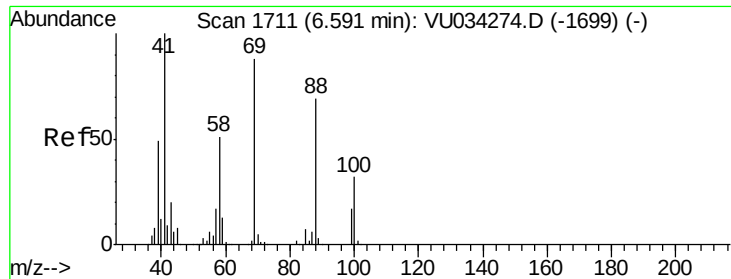
Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Tgt Ion:	41	Resp:	79231
Ion	Ratio	Lower	Upper
41	100		
69	95.9	72.8	109.2
39	50.7	38.6	58.0





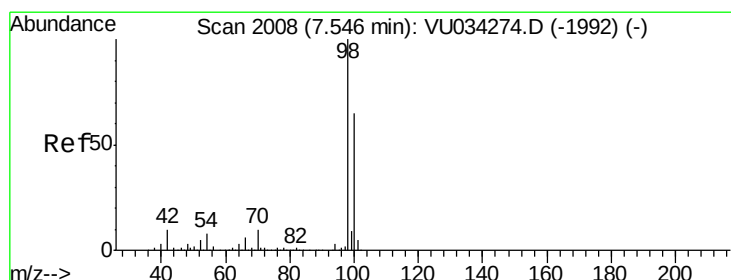
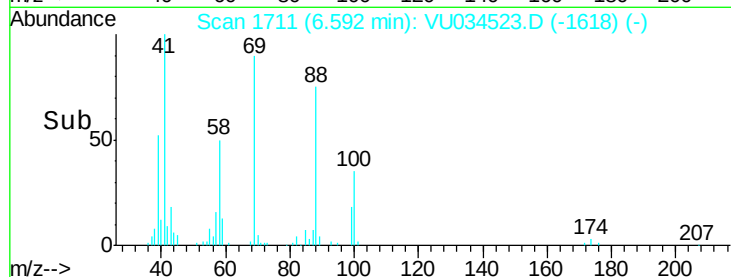
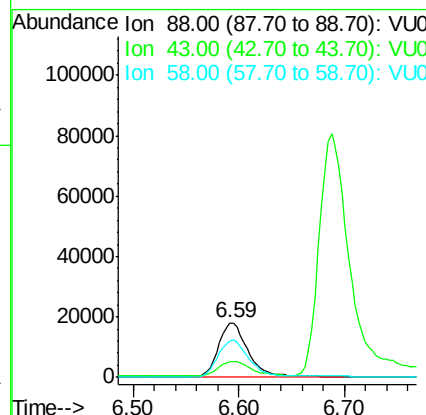
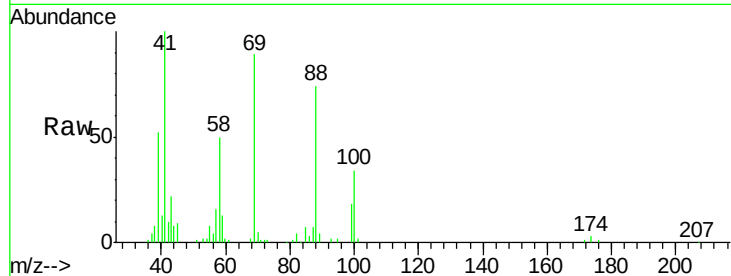
#49
1,4-Dioxane
Concen: 483.753 ug/l
RT: 6.59 min Scan# 1711
Delta R.T. 0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS03

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.5	23.8	35.6
58	70.6	58.4	87.6

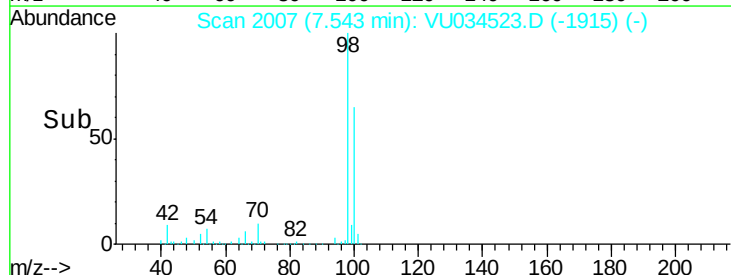
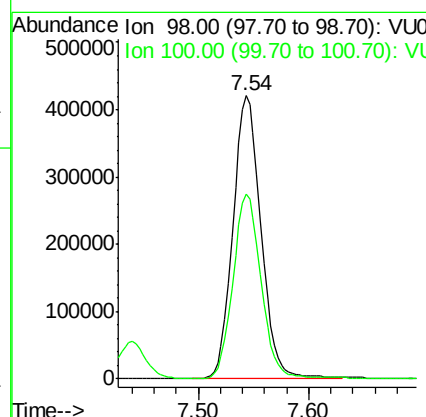
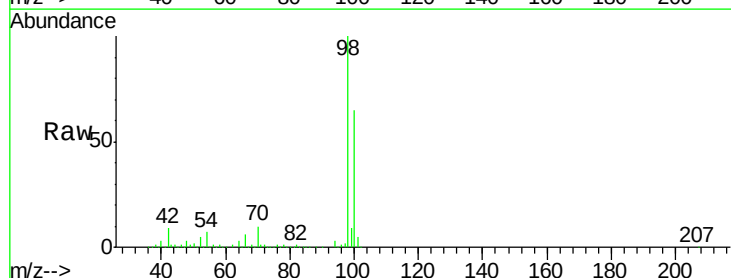
Manual Integrations
APPROVED

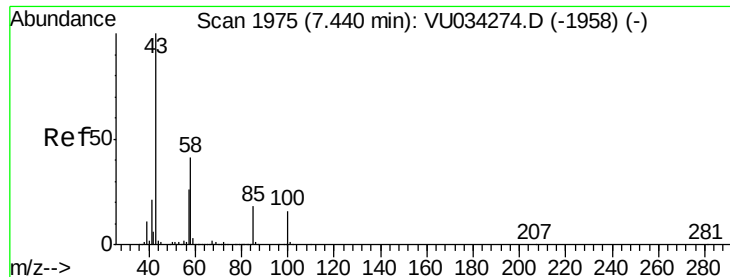
MMDadoda
9/16/2019 11:16:53 AM



#50
Toluene-d8
Concen: 59.975 ug/l
RT: 7.54 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.7	77.5





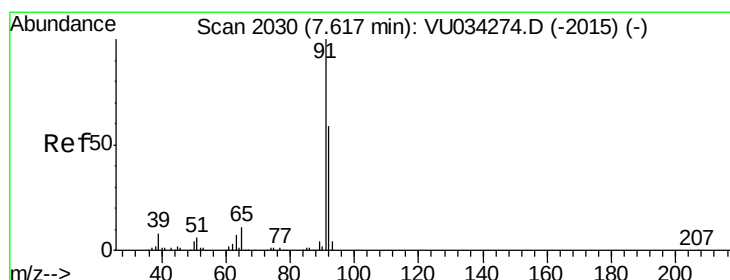
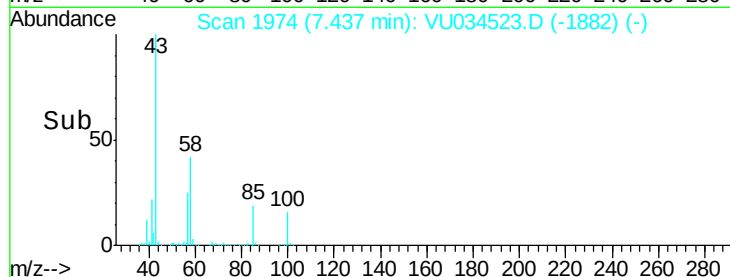
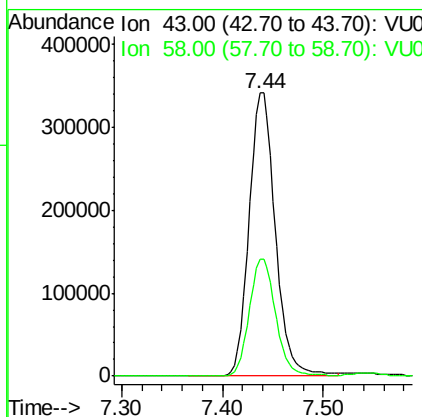
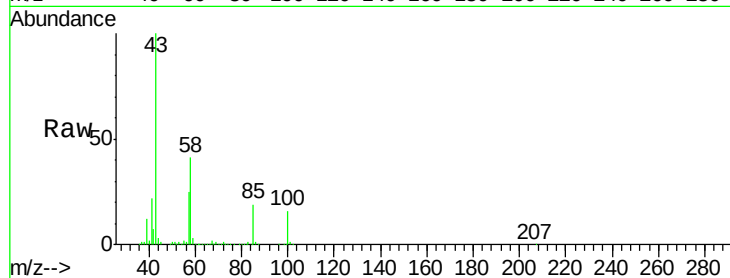
#51
 4-Methyl-2-Pentanone
 Concen: 123.913 ug/l
 RT: 7.44 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS03

Tot Ion	Ratio	Lower	Upper
43	100		
58	41.7	33.0	49.4

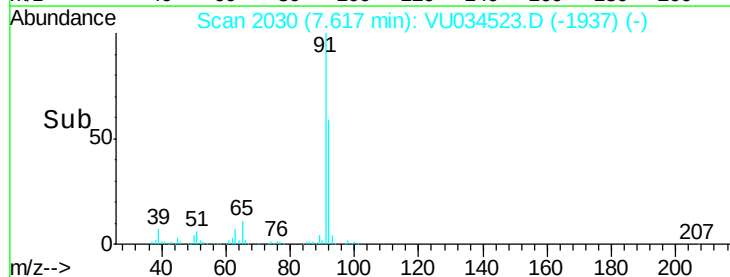
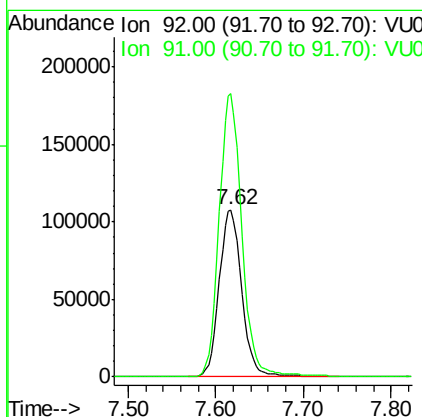
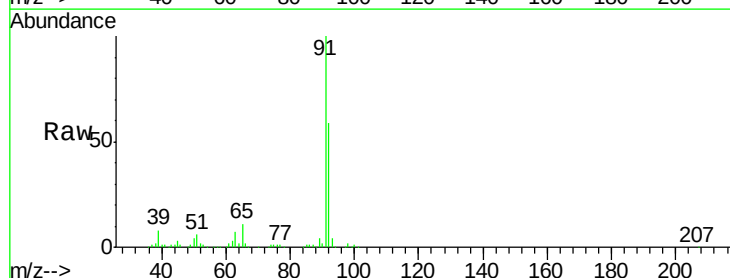
Manual Integrations
 APPROVED

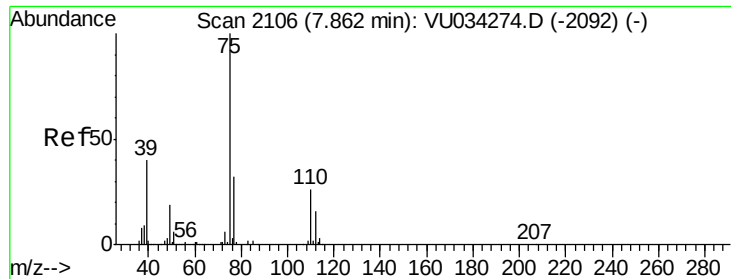
MMDadoda
 9/16/2019 11:16:53 AM



#52
 Toluene
 Concen: 24.833 ug/l
 RT: 7.62 min Scan# 2030
 Delta R.T. 0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Lower	Upper
92	100		
91	169.8	136.6	205.0





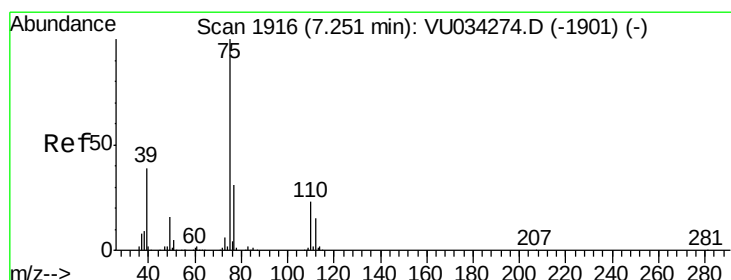
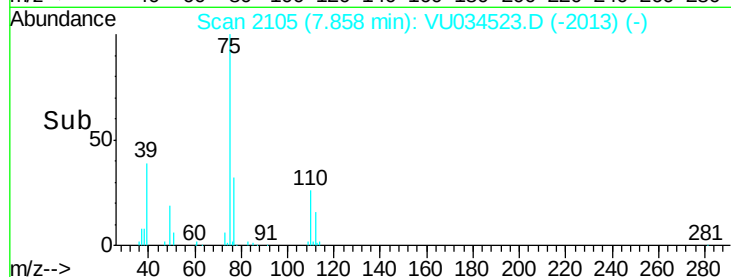
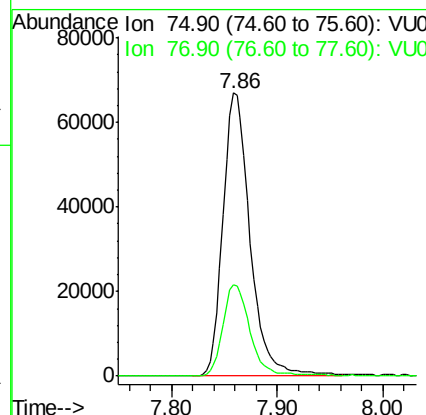
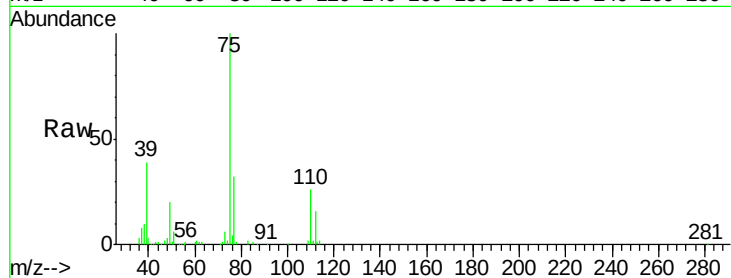
#53
 t-1,3-Dichloropropene
 Concen: 24.602 ug/l
 RT: 7.86 min Scan# 2105
 Delta R.T. -0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS03

Tot Ion	Ion	Ratio	Lower	Upper
75	100			
77	32.3	25.7	38.5	

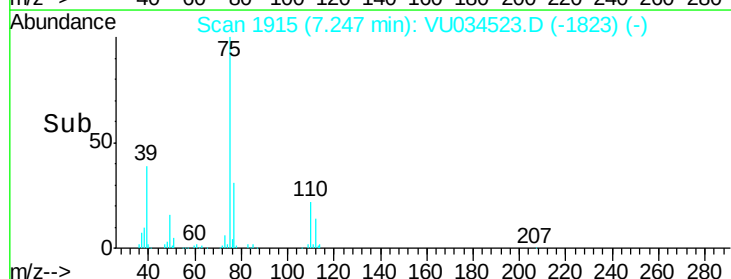
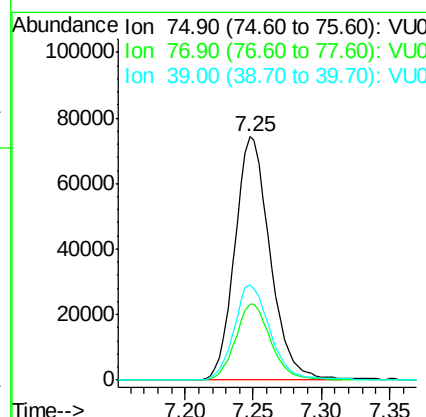
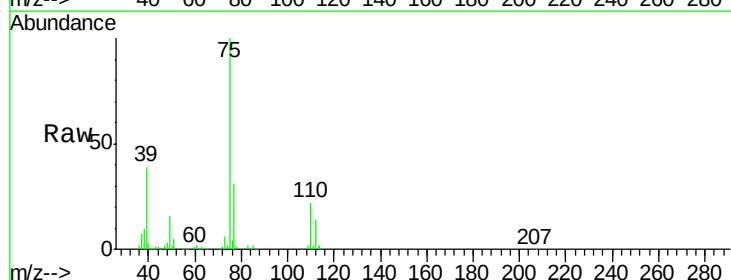
Manual Integrations
 APPROVED

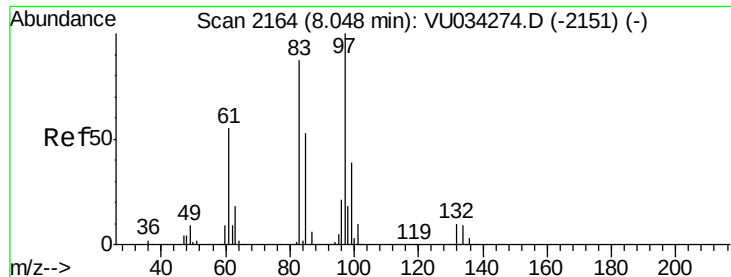
MMDadoda
 9/16/2019 11:16:53 AM



#54
 cis-1,3-Dichloropropene
 Concen: 24.979 ug/l
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Tgt Ion	Ion	Ratio	Lower	Upper
75	100			
77	31.0	25.1	37.7	
39	39.3	31.2	46.8	





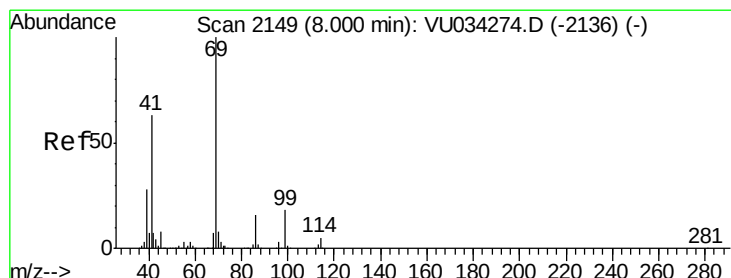
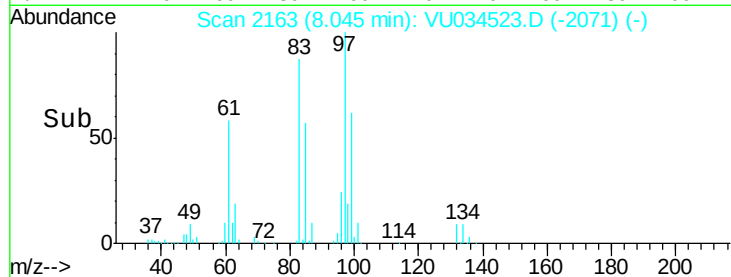
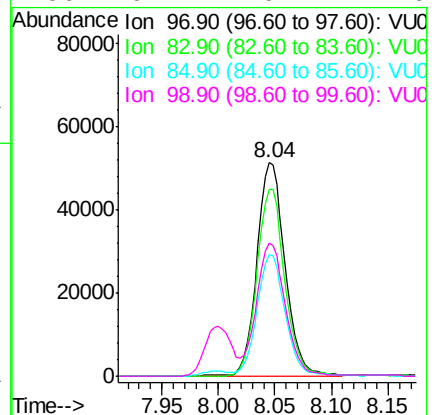
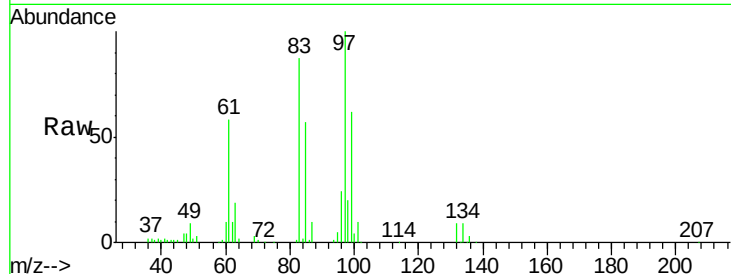
#55
 1,1,2-Trichloroethane
 Concen: 25.073 ug/l
 RT: 8.04 min Scan# 2163
 Delta R.T. -0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS03

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.3	69.0	103.6
85	56.3	44.2	66.2
99	61.7	49.4	74.0

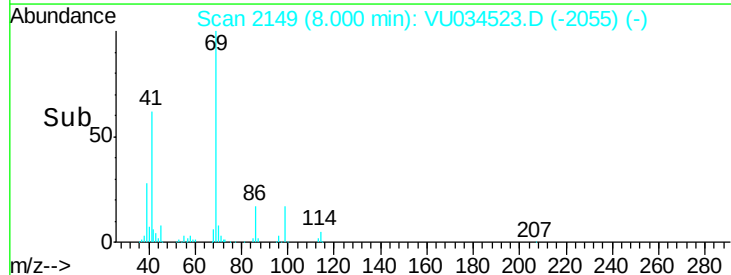
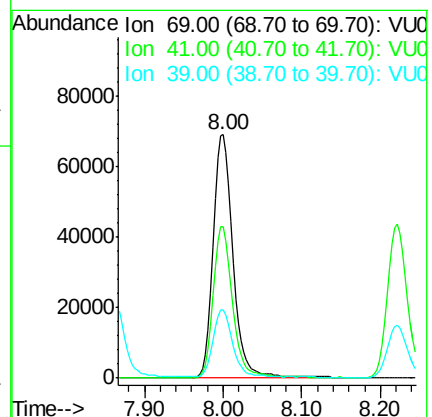
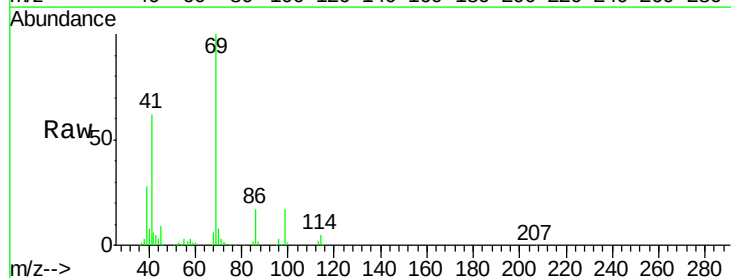
Manual Integrations
 APPROVED

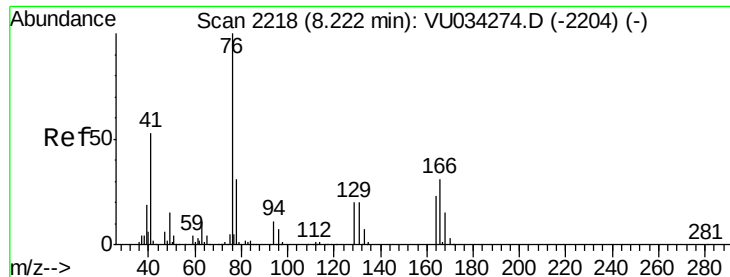
MMDadoda
 9/16/2019 11:16:53 AM



#56
 Ethyl methacrylate
 Concen: 24.136 ug/l
 RT: 8.00 min Scan# 2149
 Delta R.T. 0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Lower	Upper
69	100		
41	60.5	49.5	74.3
39	27.0	22.5	33.7





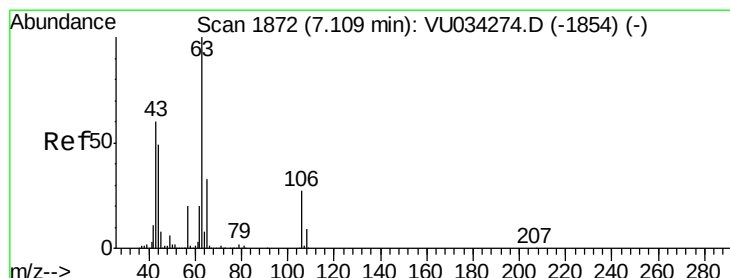
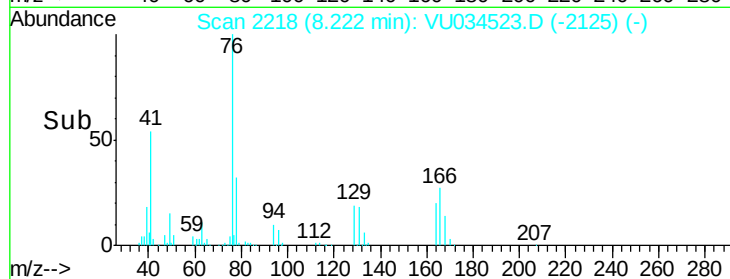
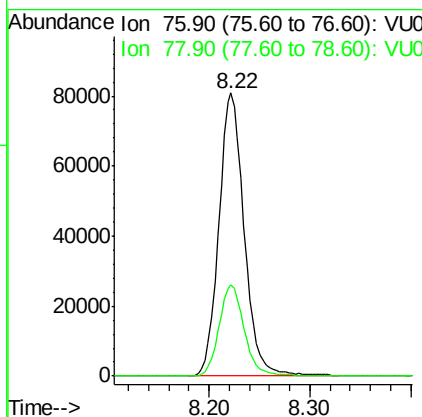
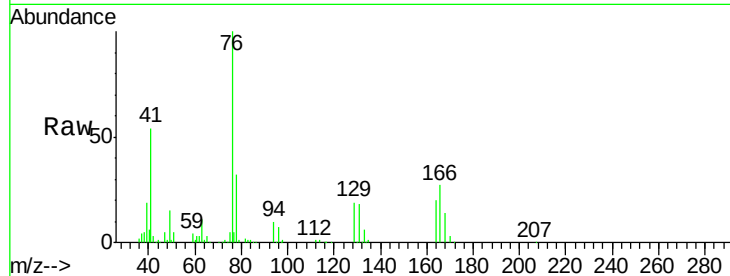
#57
 1,3-Dichloropropane
 Concen: 24.610 ug/l
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS03

Tot Ion: 76 Resp: 141908
 Ion Ratio Lower Upper
 76 100
 78 31.9 25.4 38.2

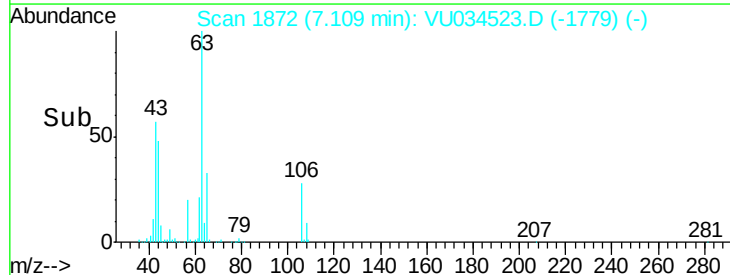
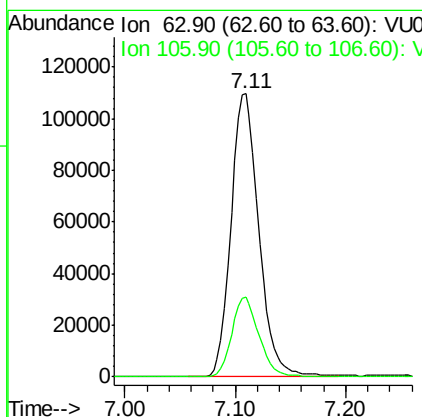
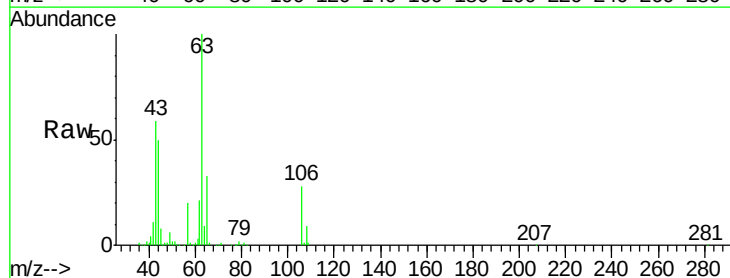
Manual Integrations
 APPROVED

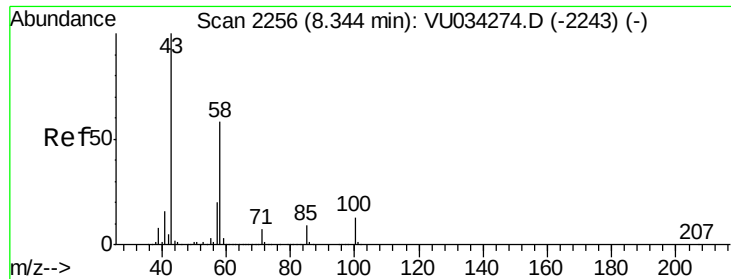
MMDadoda
 9/16/2019 11:16:53 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 115.370 ug/l
 RT: 7.11 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Tgt Ion: 63 Resp: 192551
 Ion Ratio Lower Upper
 63 100
 106 27.5 21.6 32.4





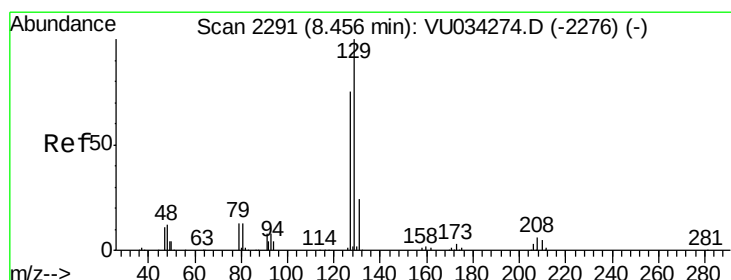
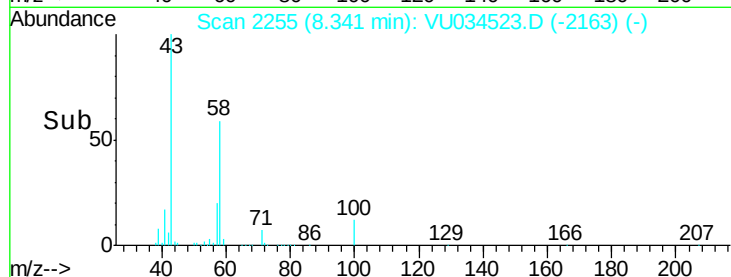
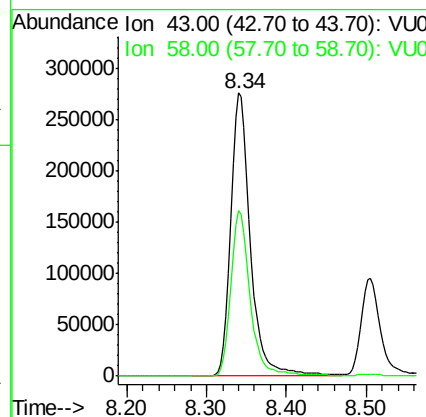
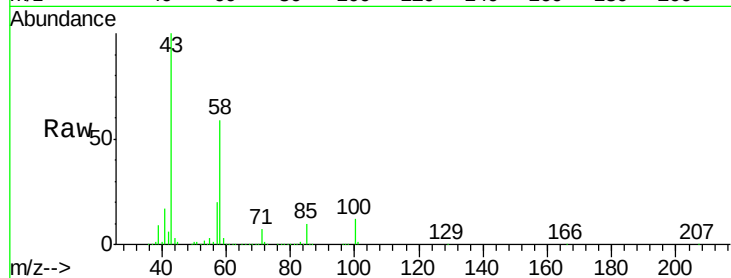
#59
2-Hexanone
Concen: 126.820 ug/l
RT: 8.34 min Scan# 2255
Delta R.T. -0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS03

Tot Ion	43	Resp	466019
Ion Ratio	100	Lower	Upper
43	100		
58	58.1	28.8	86.5

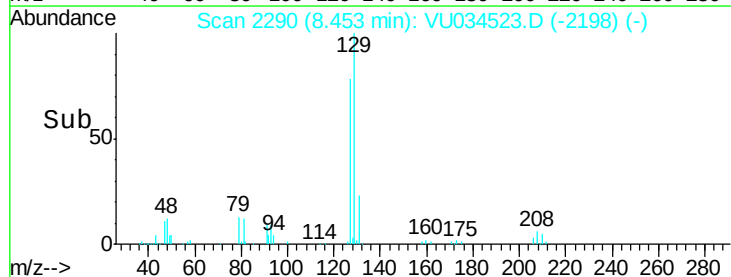
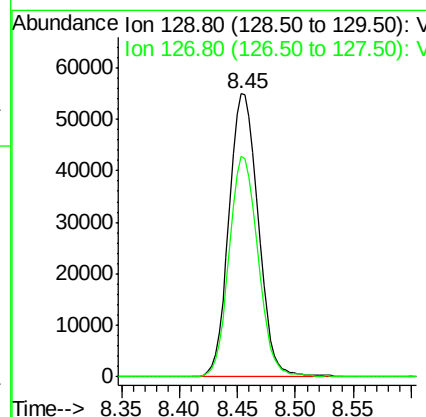
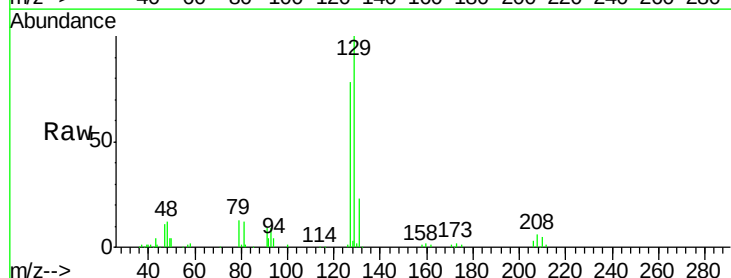
Manual Integrations
APPROVED

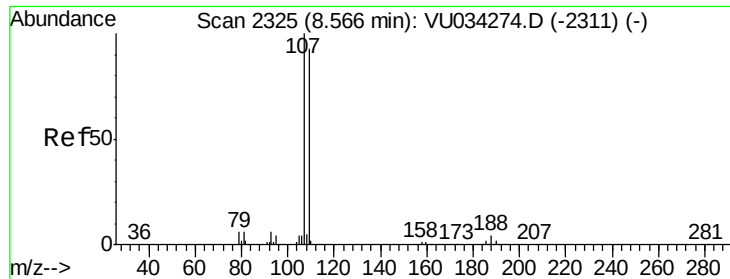
MMDadoda
9/16/2019 11:16:53 AM



#60
Dibromochloromethane
Concen: 25.298 ug/l
RT: 8.45 min Scan# 2290
Delta R.T. -0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Tgt Ion	129	Resp	96088
Ion Ratio	100	Lower	Upper
129	100		
127	76.8	37.9	113.7





#61

1,2-Dibromoethane

Concen: 24.864 ug/l

RT: 8.57 min Scan# 2325

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS03

Tot Ion:107 Resp: 86179

Ion Ratio Lower Upper

107 100

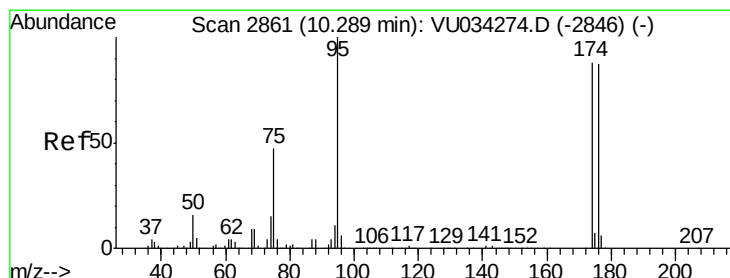
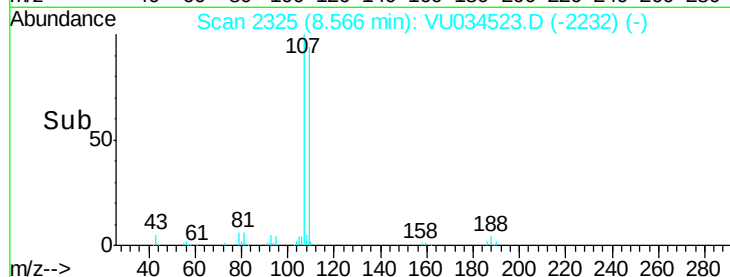
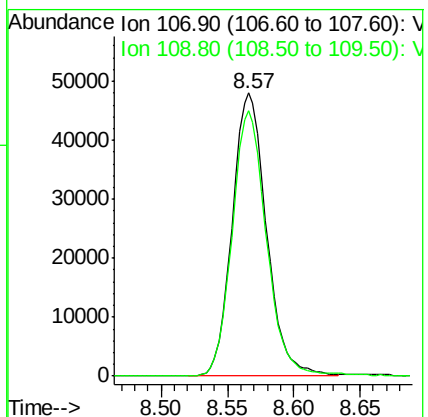
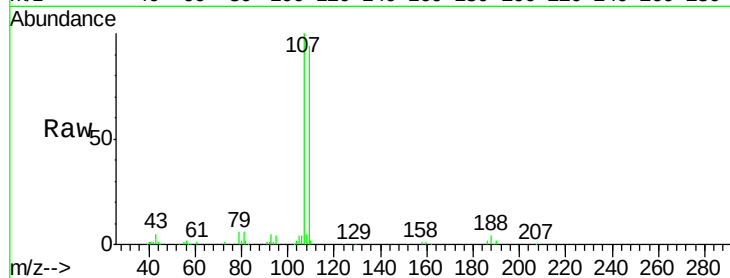
109 93.4 75.0 112.6

Manual Integrations

APPROVED

MMDadoda

9/16/2019 11:16:53 AM



#62

4-Bromofluorobenzene

Concen: 59.202 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

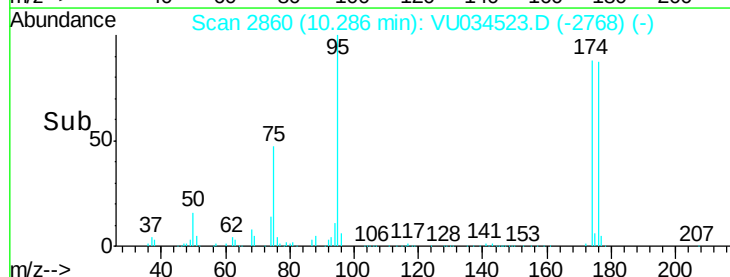
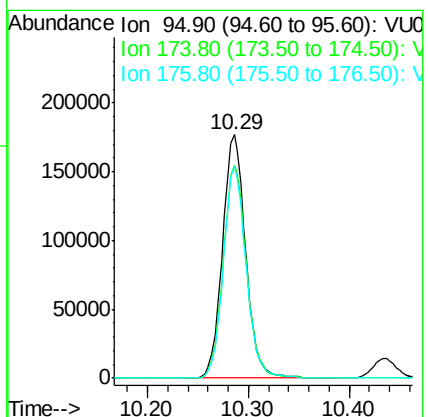
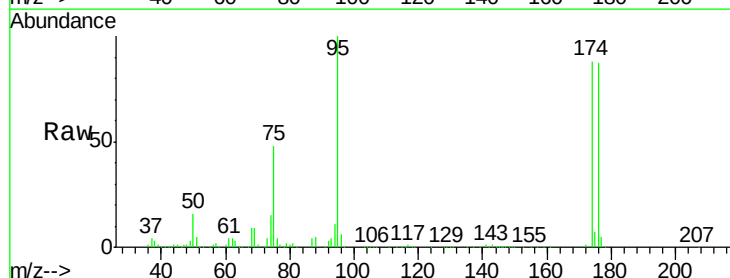
Tgt Ion: 95 Resp: 283882

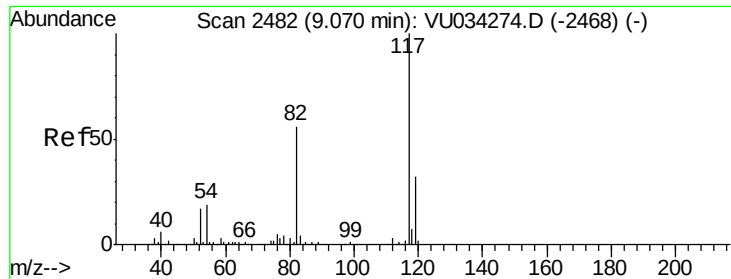
Ion Ratio Lower Upper

95 100

174 88.4 0.0 175.2

176 85.6 0.0 168.0





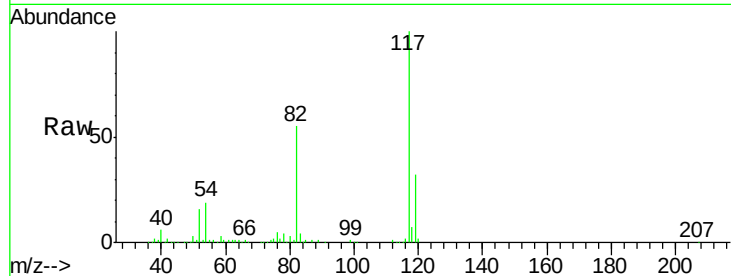
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2481
Delta R.T. -0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS03

Tot Ion	Ratio	Resp	Lower	Upper
117	100	355887		
82	55.5	44.6	67.0	
119	32.2	25.9	38.9	

Manual Integrations
APPROVED

MMDadoda
9/16/2019 11:16:53 AM

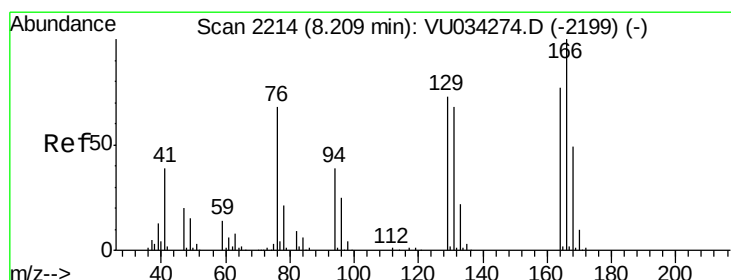
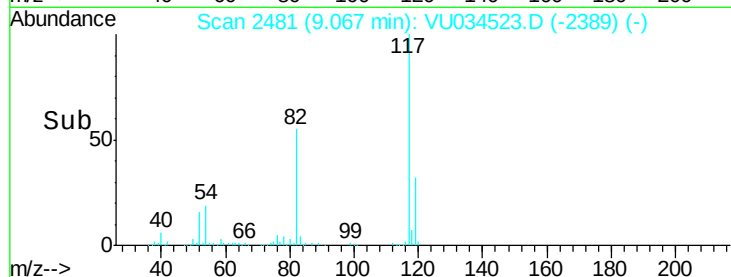
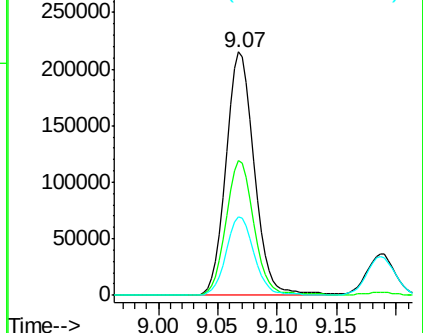


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 23.497 ug/l
RT: 8.21 min Scan# 2213
Delta R.T. -0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	72547		
166	126.4	103.7	155.5	
129	89.9	75.8	113.8	
131	88.9	70.7	106.1	

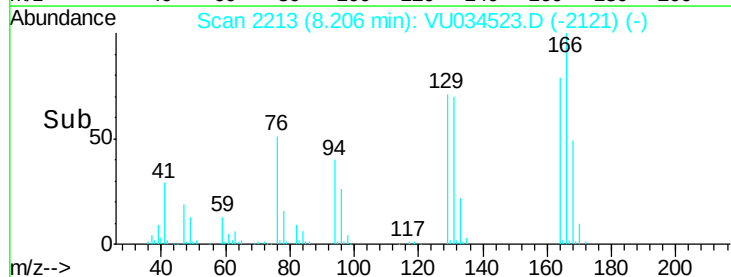
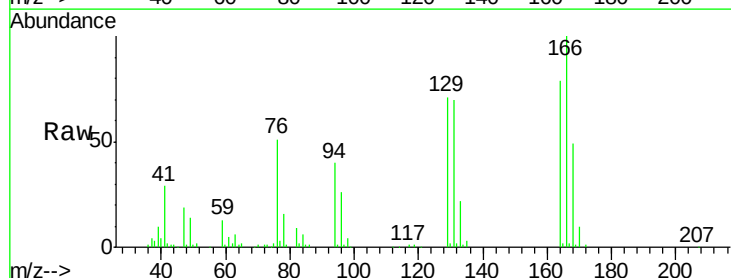
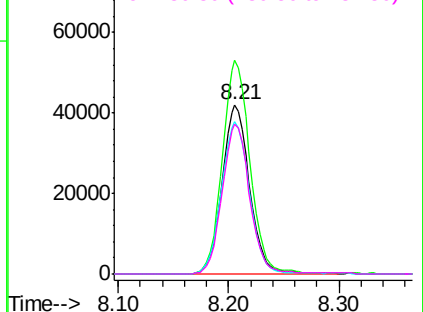
Abundance

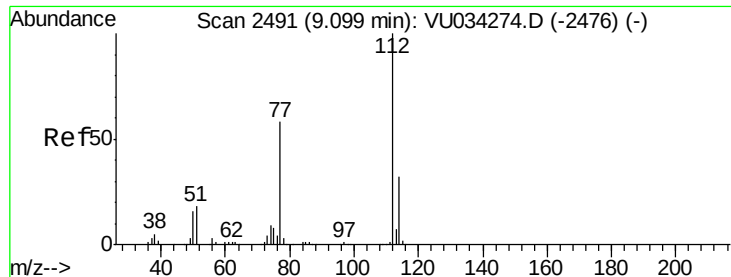
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 24.673 ug/l

RT: 9.10 min Scan# 2490

Delta R.T. -0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS03

Tot Ion:112 Resp: 222772

Ion Ratio Lower Upper

112 100

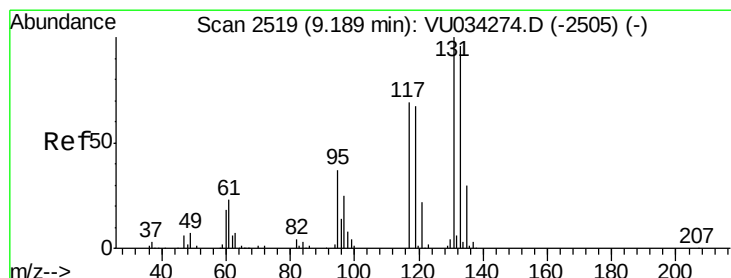
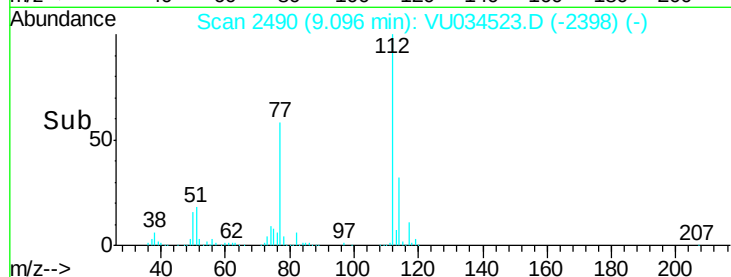
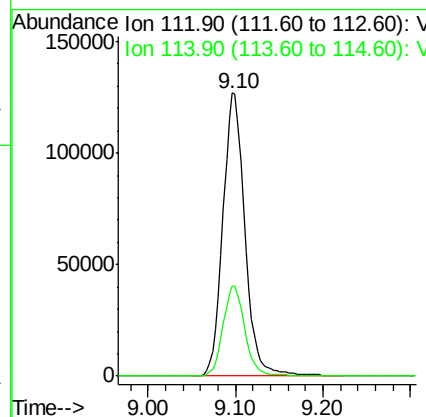
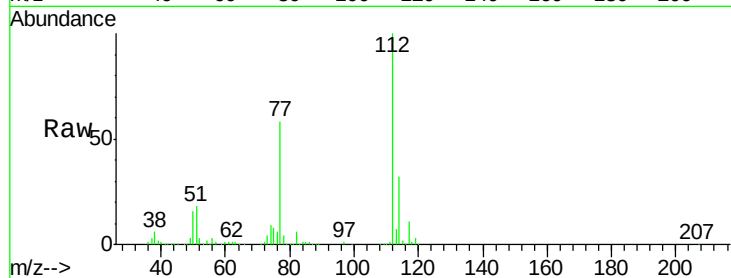
114 32.0 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

9/16/2019 11:16:53 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 24.893 ug/l

RT: 9.19 min Scan# 2518

Delta R.T. -0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

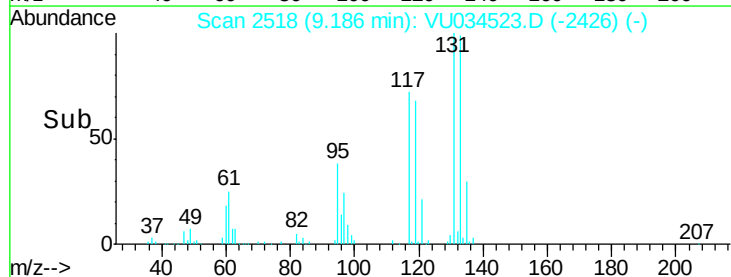
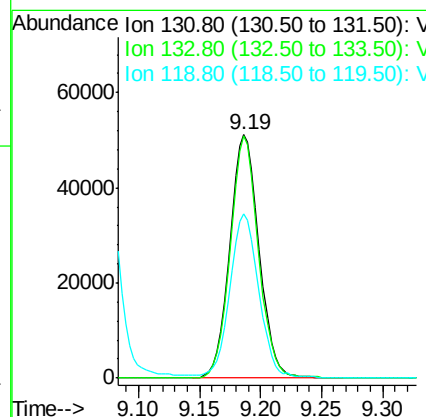
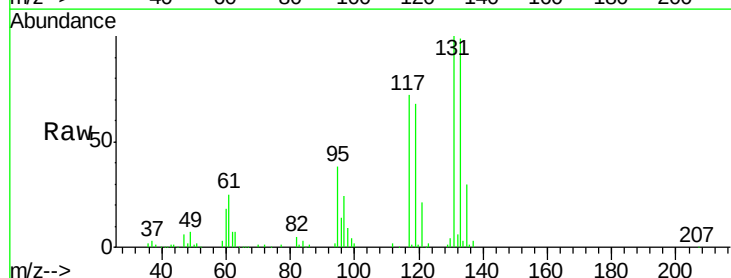
Tgt Ion:131 Resp: 85777

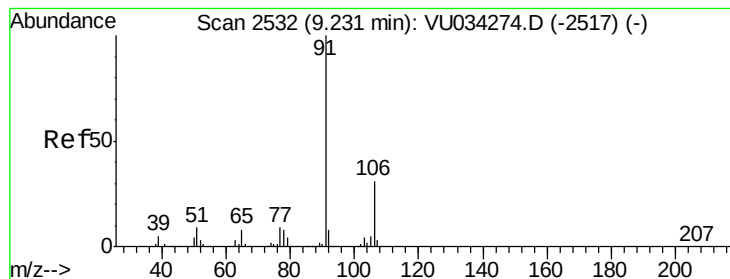
Ion Ratio Lower Upper

131 100

133 95.4 47.9 143.7

119 66.6 33.1 99.5





#67

Ethyl Benzene

Concen: 24.372 ug/l

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS03

Tot Ion: 91 Resp: 359796

Ion Ratio Lower Upper

91 100

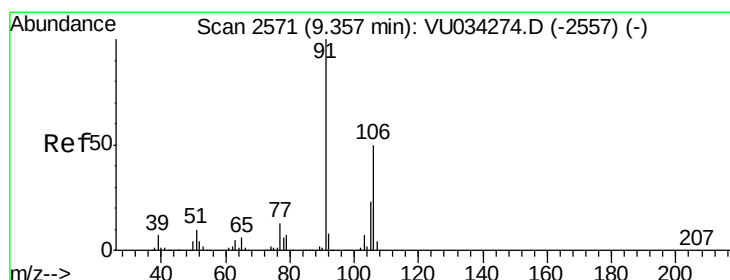
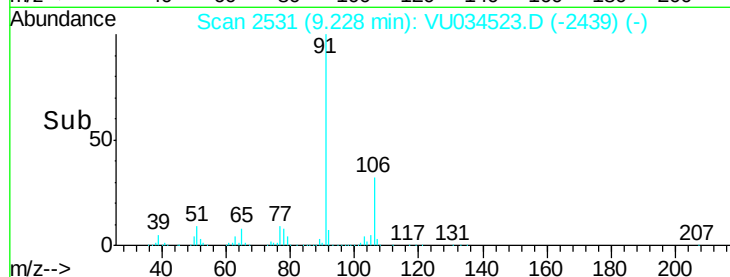
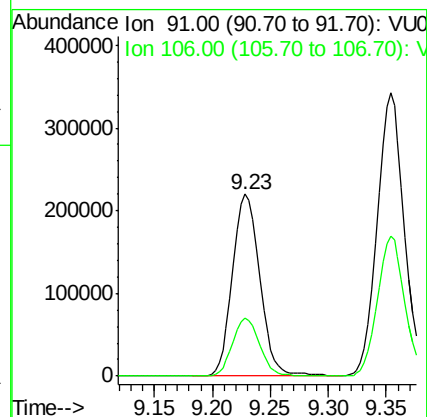
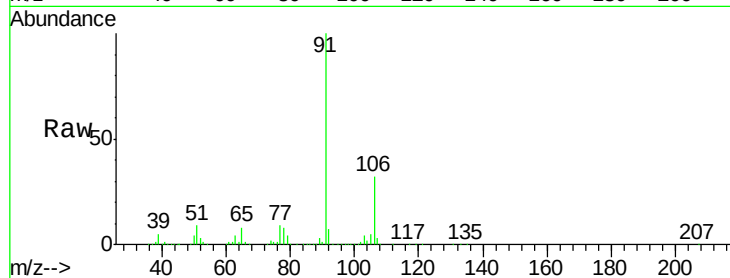
106 31.8 24.8 37.2

Manual Integrations

APPROVED

MMDadoda

9/16/2019 11:16:53 AM



#68

m/p-Xylenes

Concen: 50.831 ug/l

RT: 9.35 min Scan# 2570

Delta R.T. -0.00 min

Lab File: VU034523.D

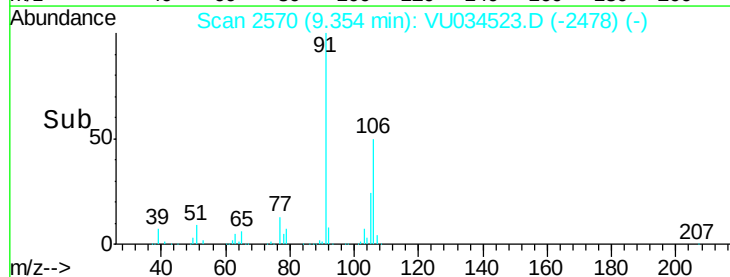
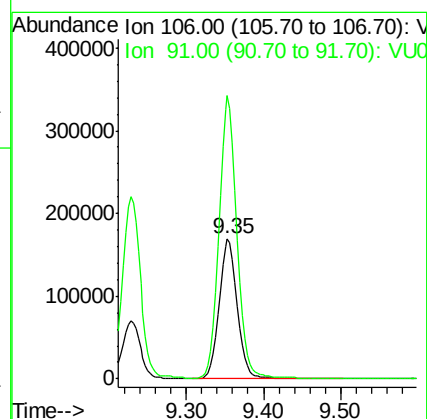
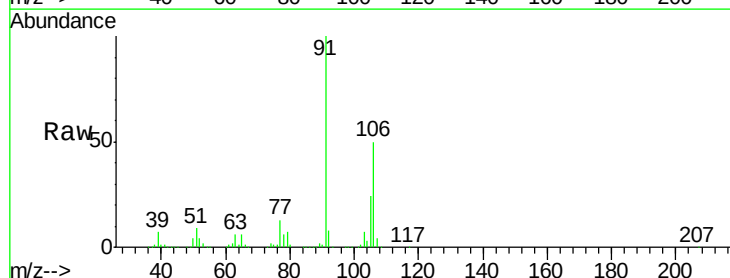
Acq: 12 Sep 2019 16:28

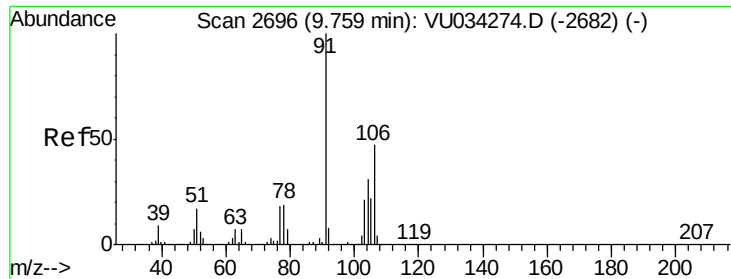
Tgt Ion: 106 Resp: 282576

Ion Ratio Lower Upper

106 100

91 199.0 160.1 240.1





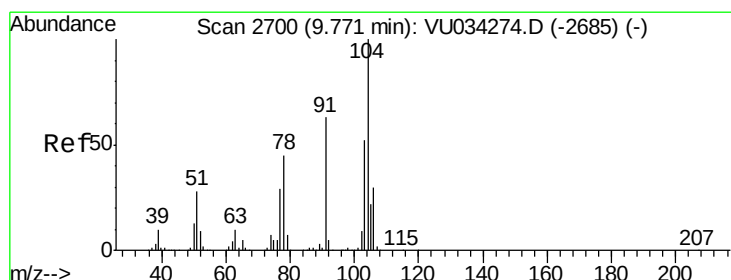
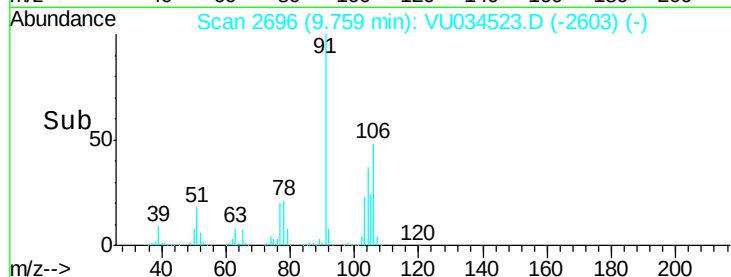
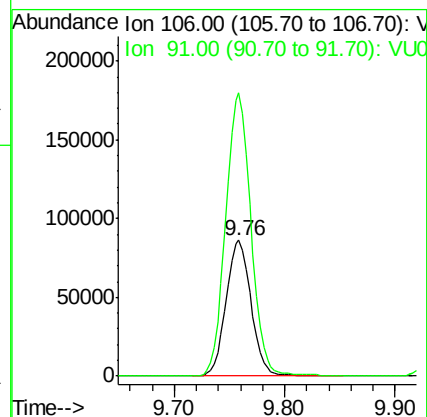
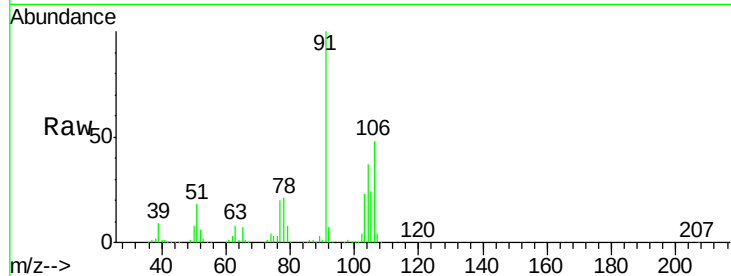
#69
o-Xylene
Concen: 25.080 ug/l
RT: 9.76 min Scan# 2696
Delta R.T. 0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS03

Tot Ion	Ratio	Resp	Lower	Upper
106	100	136351		
91	210.2	105.1	315.3	

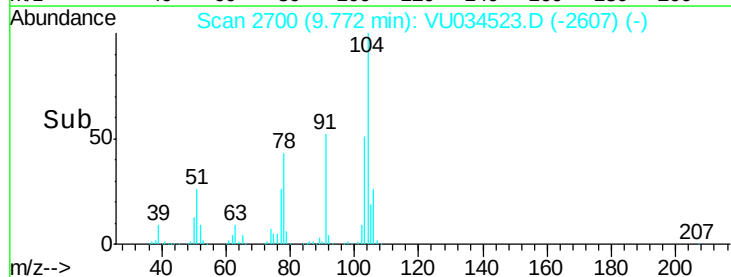
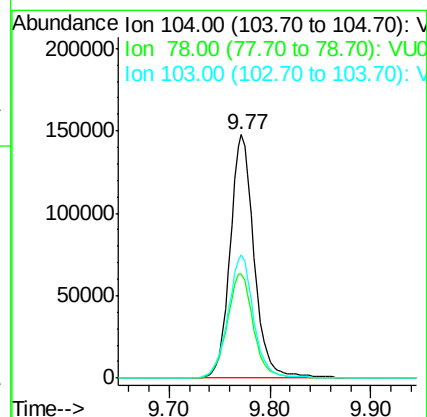
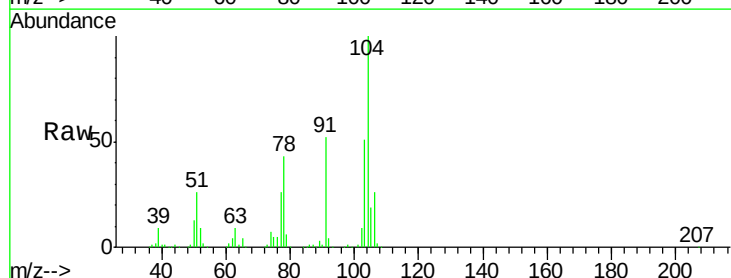
Manual Integrations
APPROVED

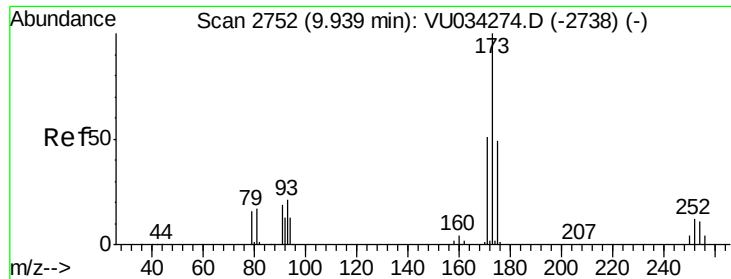
MMDadoda
9/16/2019 11:16:53 AM



#70
Styrene
Concen: 25.768 ug/l
RT: 9.77 min Scan# 2700
Delta R.T. 0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	245615		
78	47.0	38.6	57.8	
103	54.1	44.2	66.4	





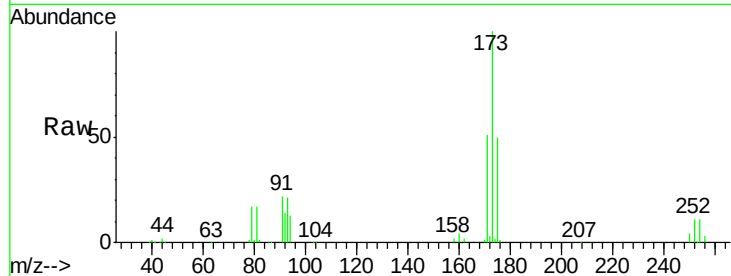
#71
Bromoform
Concen: 25.157 ug/l
RT: 9.94 min Scan# 2751
Delta R.T. -0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS03

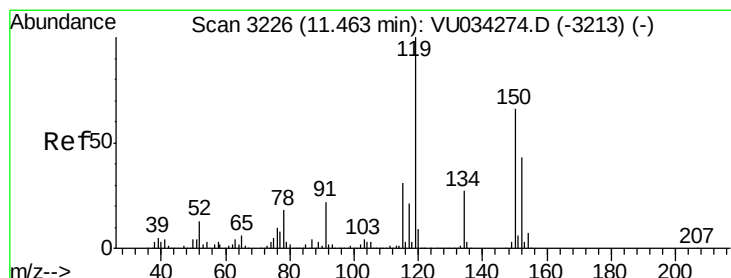
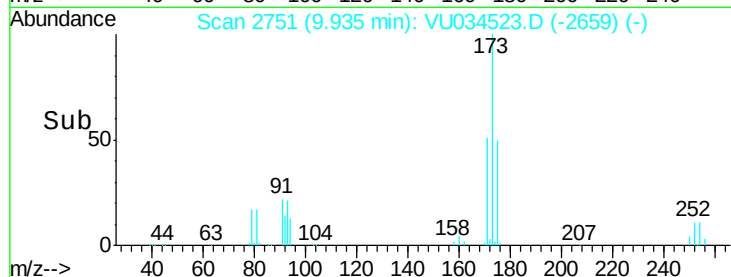
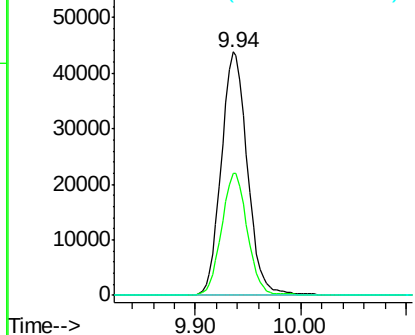
Tot Ion	Ion	Ratio	Resp	Lower	Upper
173	100				
175	49.7	24.4	73.2		
254	0.0	0.0	0.0		

Manual Integrations
APPROVED

MMDadoda
9/16/2019 11:16:53 AM

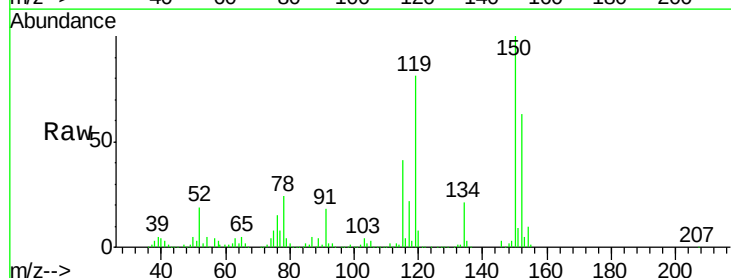


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

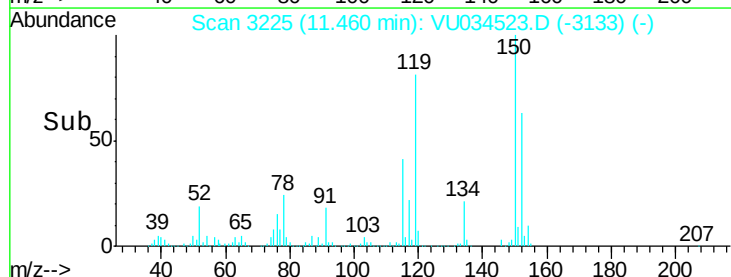
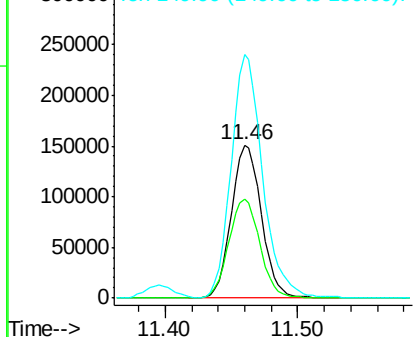


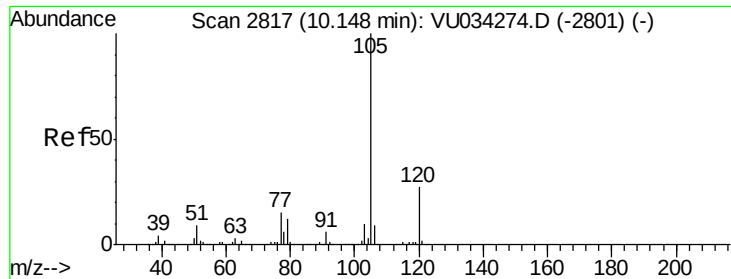
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3225
Delta R.T. -0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
152	100				
115	67.0	39.1	117.3		
150	165.6	0.0	345.4		



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





#73

Isopropylbenzene

Concen: 24.206 ug/l

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS03

Tot Ion:105 Resp: 376071

Ion Ratio Lower Upper

105 100

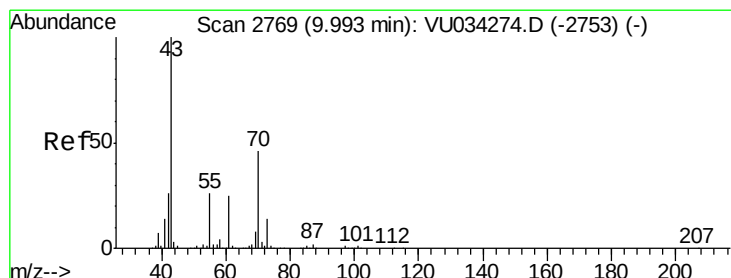
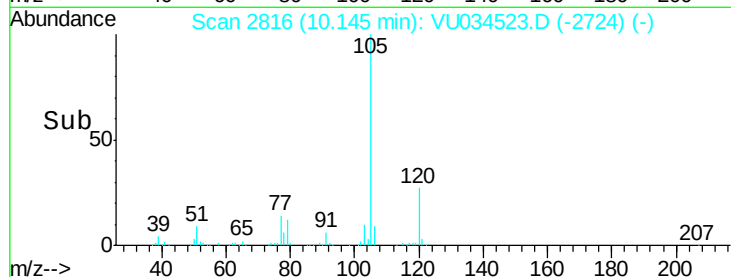
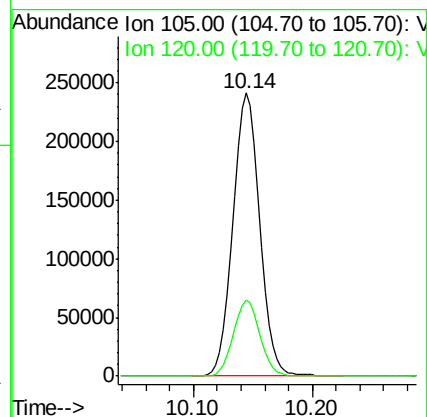
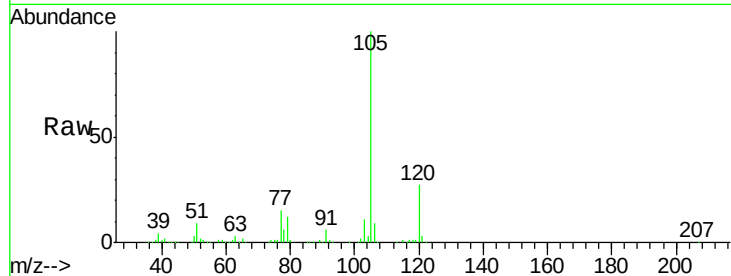
120 26.6 13.4 40.2

Manual Integrations

APPROVED

MMDadoda

9/16/2019 11:16:53 AM



#74

N-ethyl acetate

Concen: 24.145 ug/l

RT: 9.99 min Scan# 2769

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Tgt Ion: 43 Resp: 150997

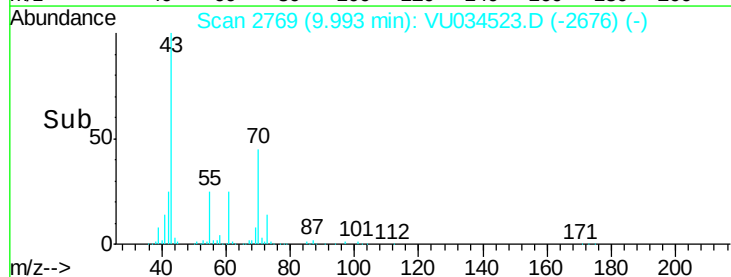
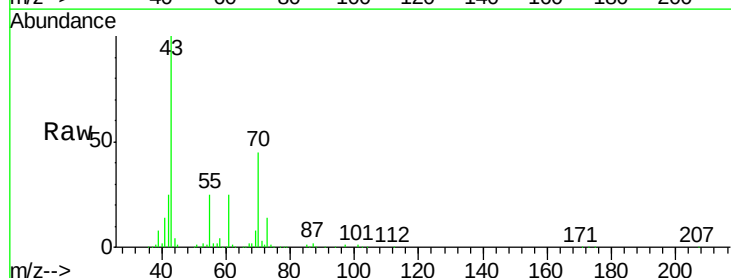
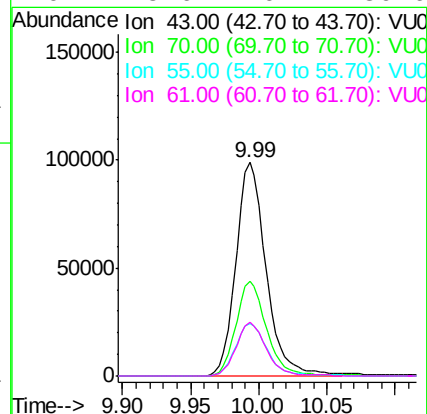
Ion Ratio Lower Upper

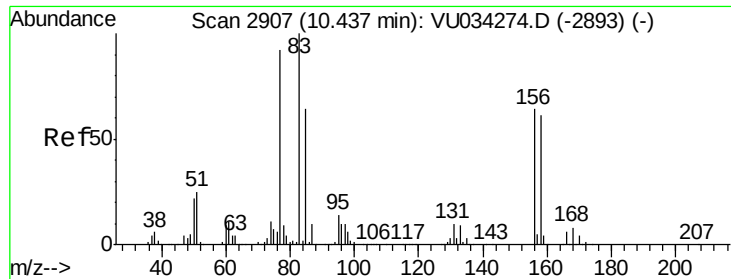
43 100

70 45.3 36.4 54.6

55 25.9 21.2 31.8

61 25.6 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 24.014 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

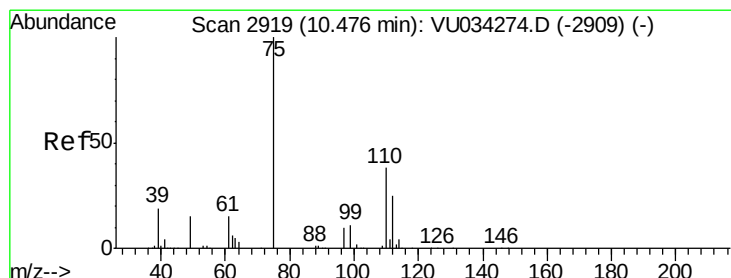
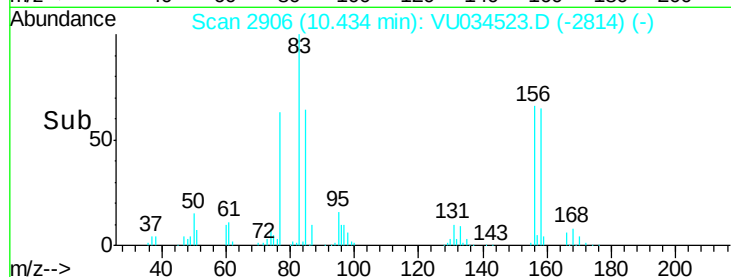
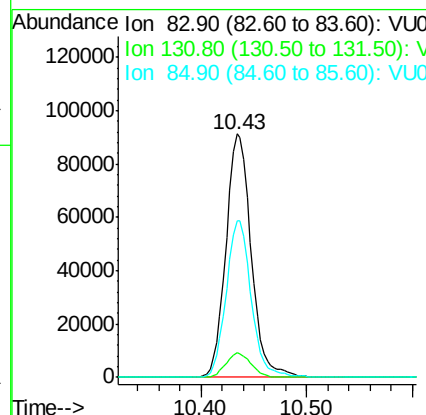
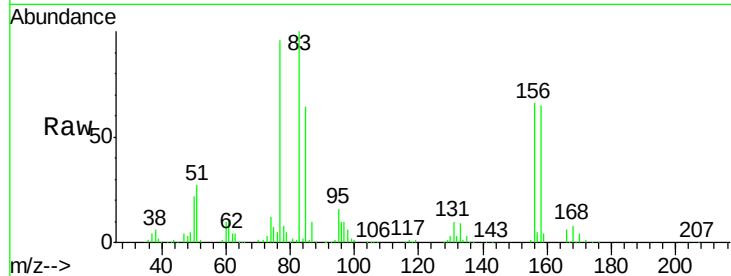
ClientSampleId :

VU0912WBS03

Tot Ion:	83	Resp:	151020
Ion Ratio	Lower	Upper	
83	100		
131	10.0	5.1	15.2
85	64.0	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
9/16/2019 11:16:53 AM



#76

1,2,3-Trichloropropane

Concen: 24.655 ug/l m

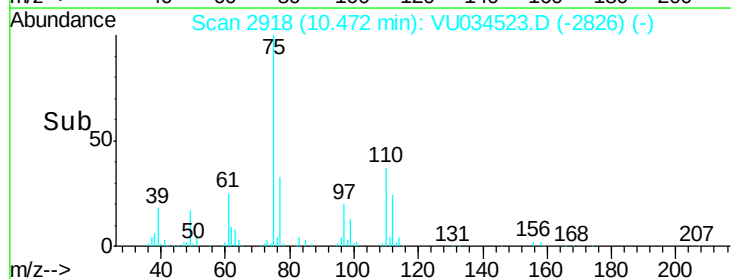
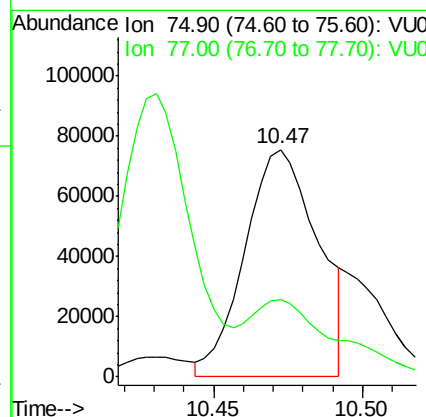
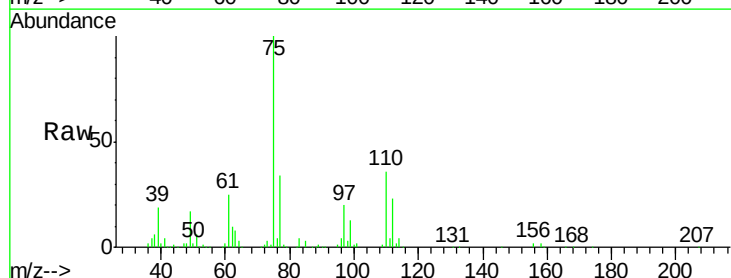
RT: 10.47 min Scan# 2918

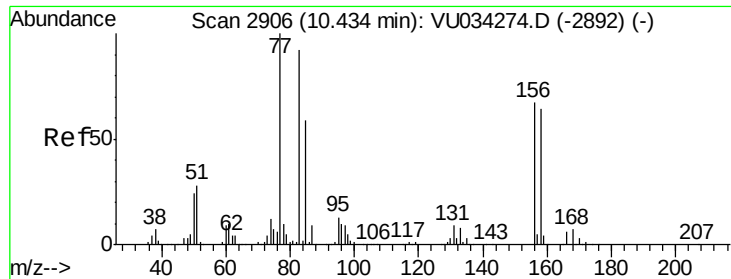
Delta R.T. -0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Tgt Ion:	75	Resp:	128482
Ion Ratio	Lower	Upper	
75	100		
77	41.5	20.8	62.2





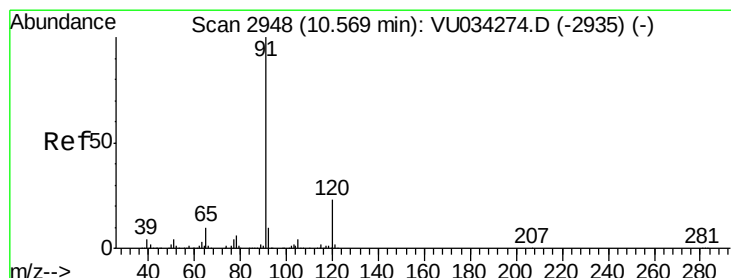
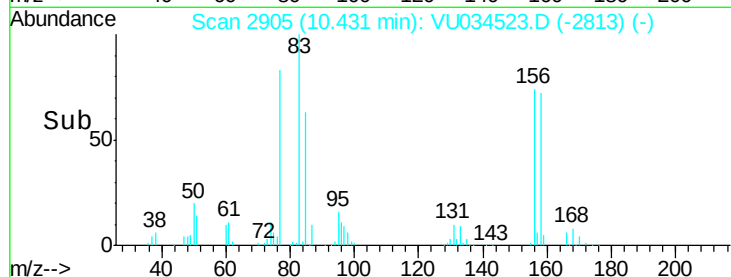
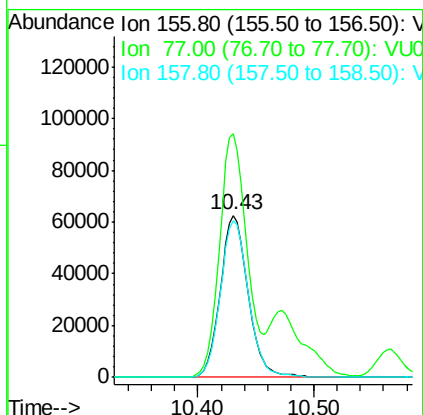
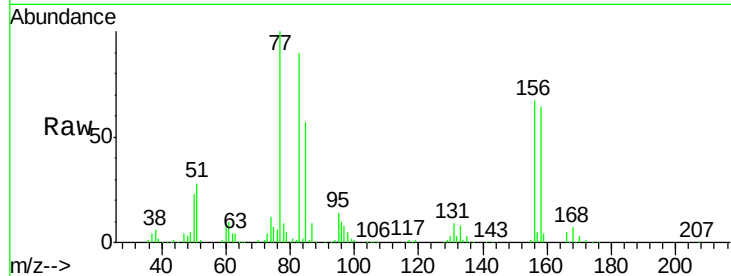
#77
Bromobenzene
Concen: 24.076 ug/l
RT: 10.43 min Scan# 2905
Delta R.T. -0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS03

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	148.7	75.6	226.9	
158	97.7	48.2	144.6	

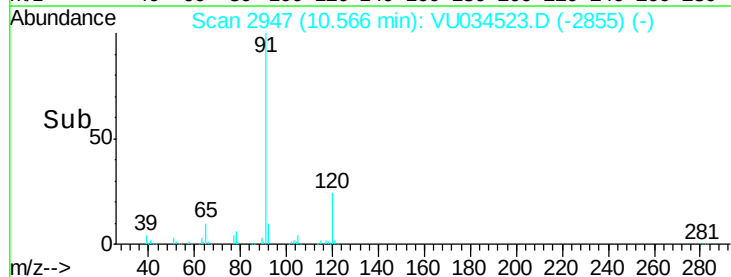
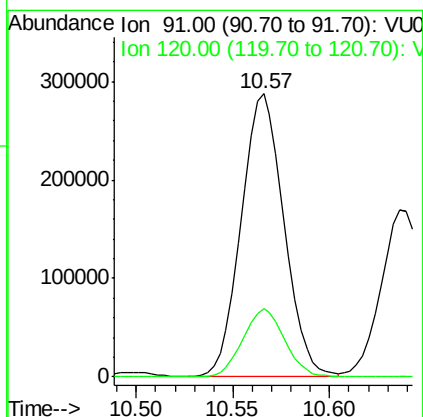
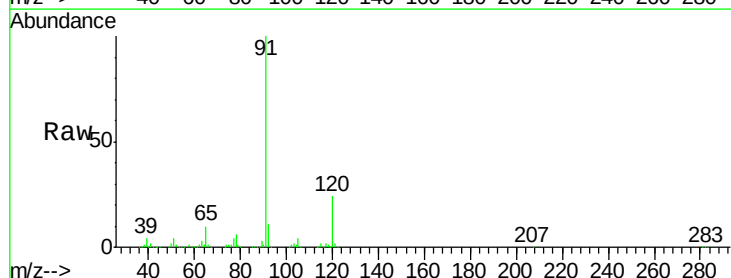
Manual Integrations
APPROVED

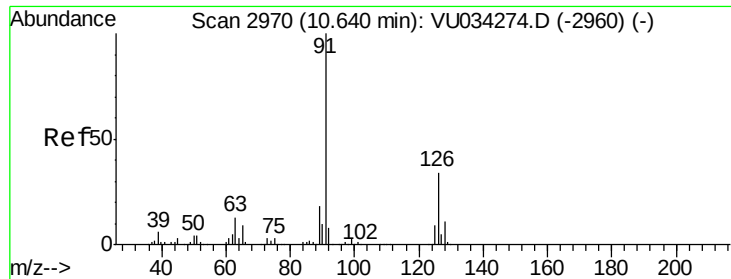
MMDadoda
9/16/2019 11:16:53 AM



#78
n-propylbenzene
Concen: 24.516 ug/l
RT: 10.57 min Scan# 2947
Delta R.T. -0.00 min
Lab File: VU034523.D
Acq: 12 Sep 2019 16:28

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	23.8	11.7	35.0	





#79

2-Chlorotoluene

Concen: 24.519 ug/l

RT: 10.64 min Scan# 2969

Delta R.T. -0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS03

Tot Ion: 91 Resp: 268439

Ion Ratio Lower Upper

91 100

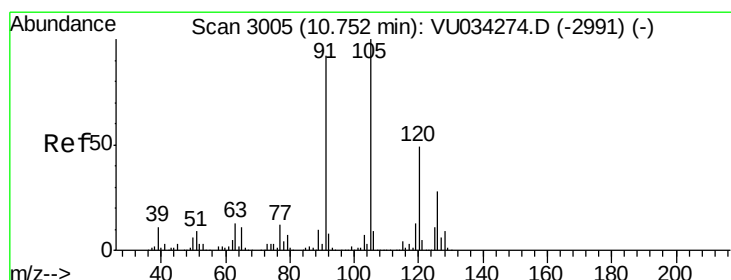
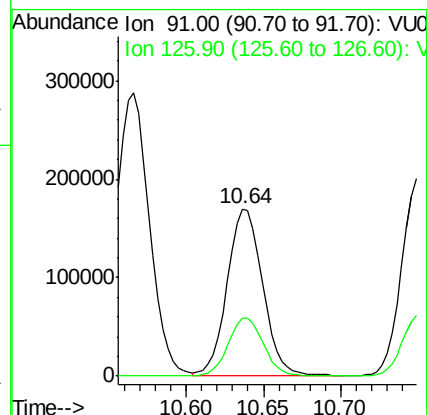
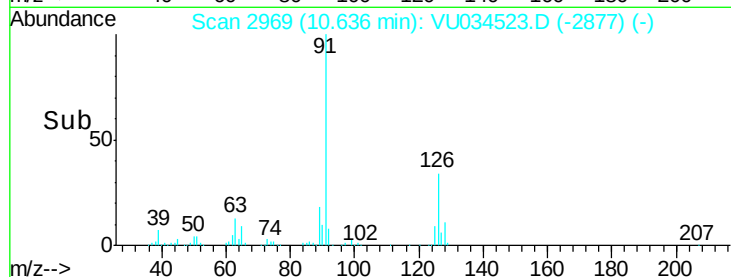
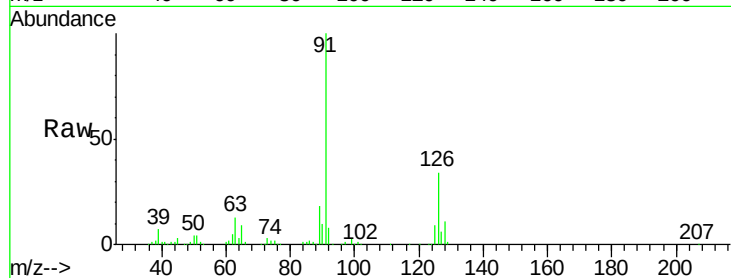
126 34.9 17.3 51.9

Manual Integrations

APPROVED

MMDadoda

9/16/2019 11:16:53 AM



#80

1,3,5-Trimethylbenzene

Concen: 25.412 ug/l

RT: 10.75 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VU034523.D

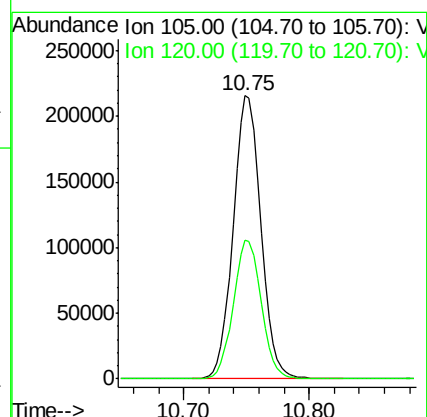
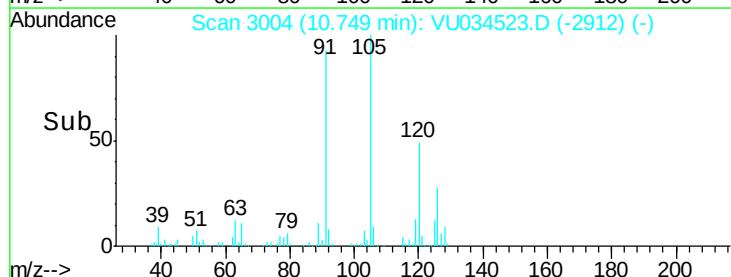
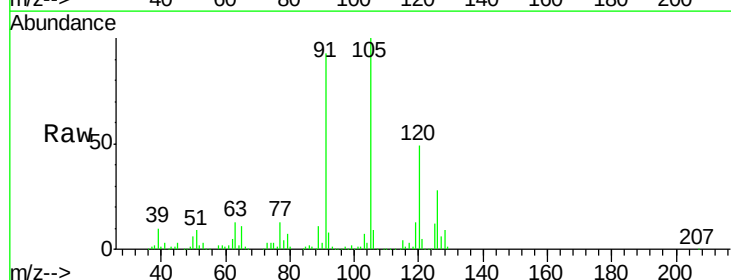
Acq: 12 Sep 2019 16:28

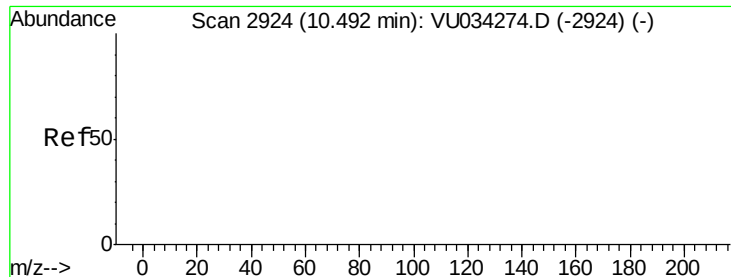
Tgt Ion: 105 Resp: 330196

Ion Ratio Lower Upper

105 100

120 49.6 24.9 74.7





#81

trans-1,4-Dichloro-2-butene

Concen: 23.480 ug/l m

RT: 10.49 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VU034523.D

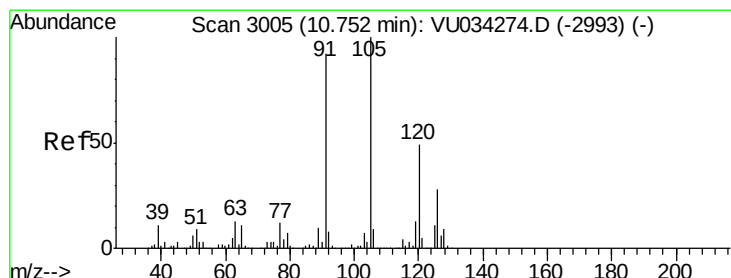
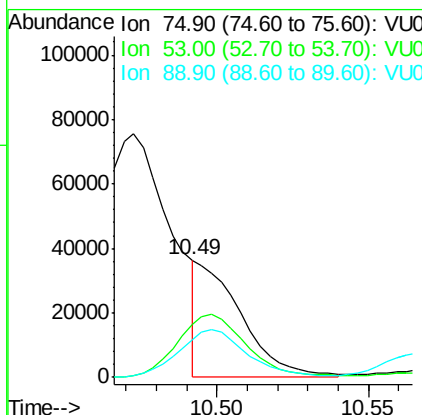
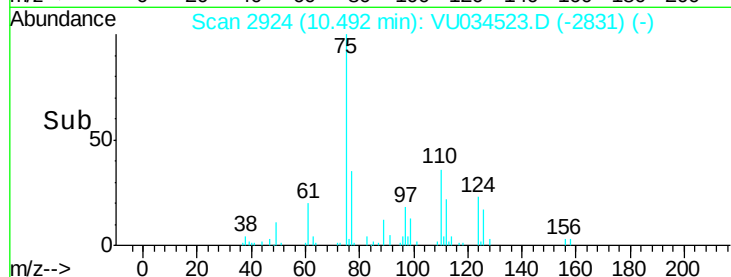
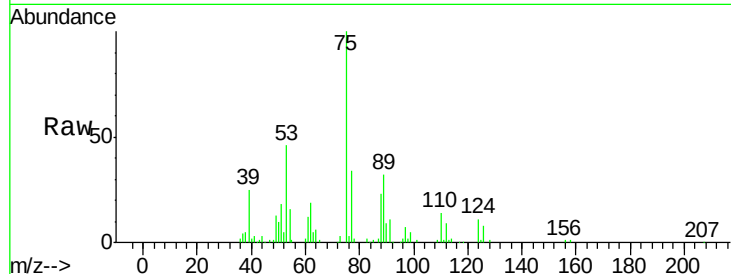
Acq: 12 Sep 2019 16:28

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS03

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
9/16/2019 11:16:53 AM



#82

4-Chlorotoluene

Concen: 24.592 ug/l

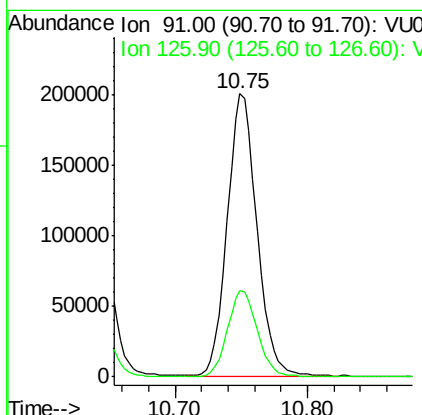
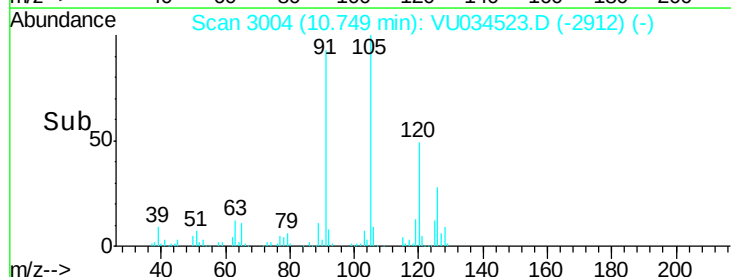
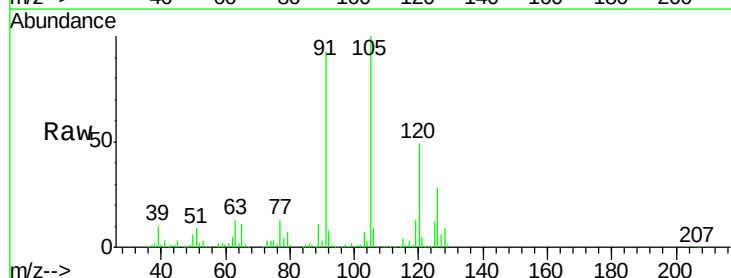
RT: 10.75 min Scan# 3004

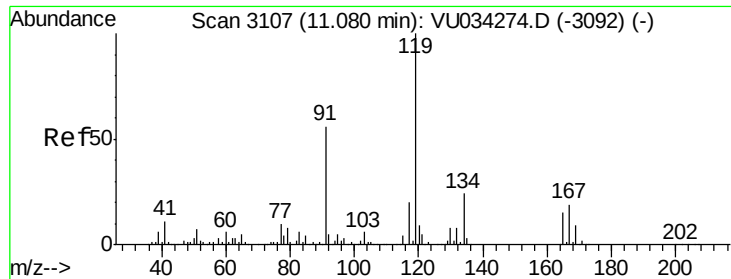
Delta R.T. -0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.3	45.8





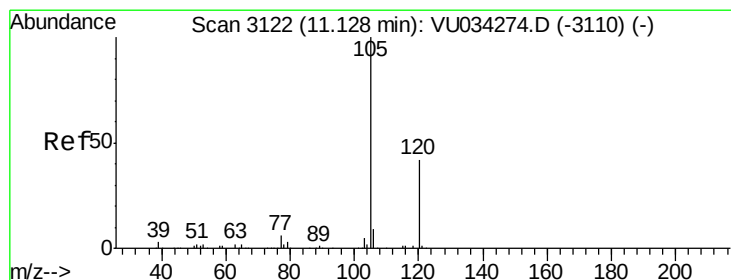
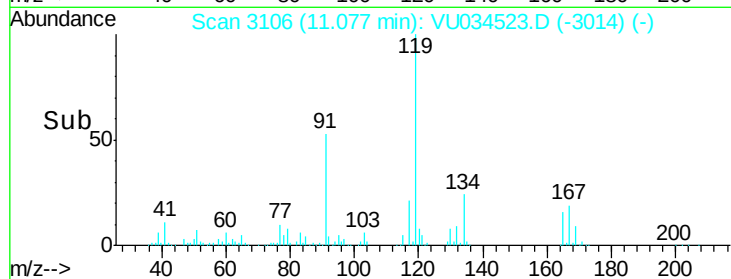
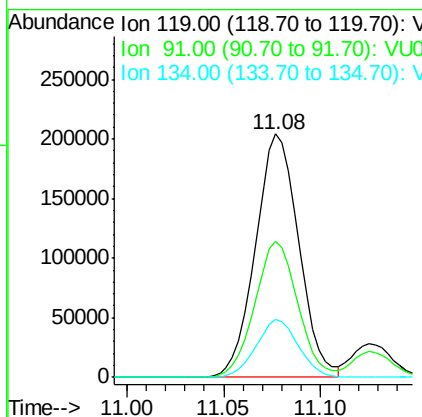
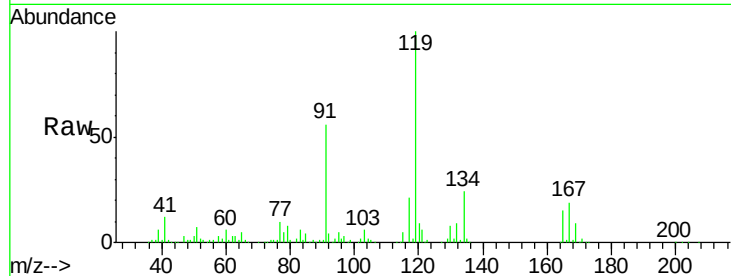
#83
 tert-Butylbenzene
 Concen: 24.455 ug/l
 RT: 11.08 min Scan# 3106
 Delta R.T. -0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS03

Tot Ion	Ratio	Resp	Lower	Upper
119	100	317879		
91	55.0		27.8	83.4
134	23.3		11.7	35.0

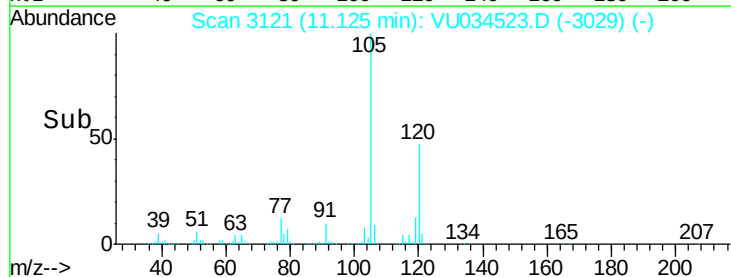
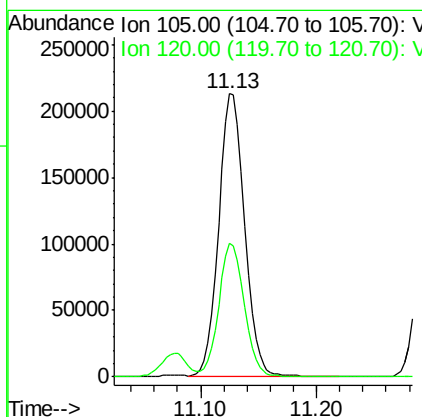
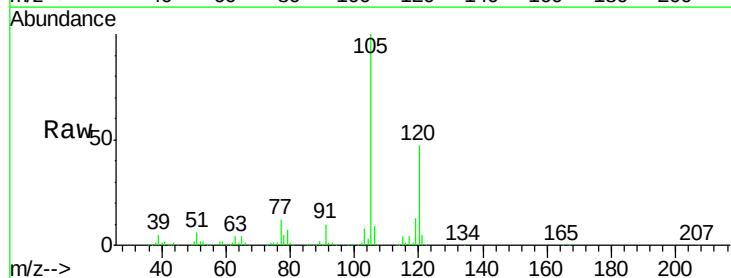
Manual Integrations
 APPROVED

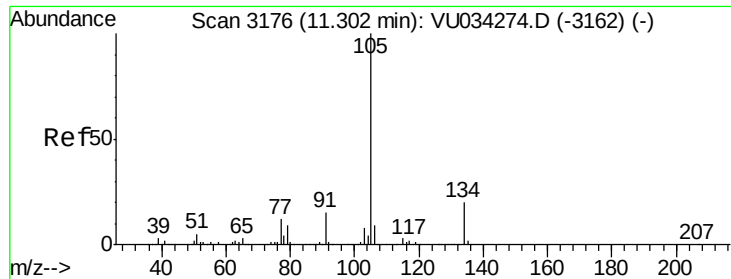
MMDadoda
 9/16/2019 11:16:53 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 25.172 ug/l
 RT: 11.13 min Scan# 3121
 Delta R.T. -0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	329244		
120	46.7		22.9	68.8





#85

sec-Butylbenzene

Concen: 25.003 ug/l

RT: 11.30 min Scan# 3176

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS03

Tot Ion:105 Resp: 383700

Ion Ratio Lower Upper

105 100

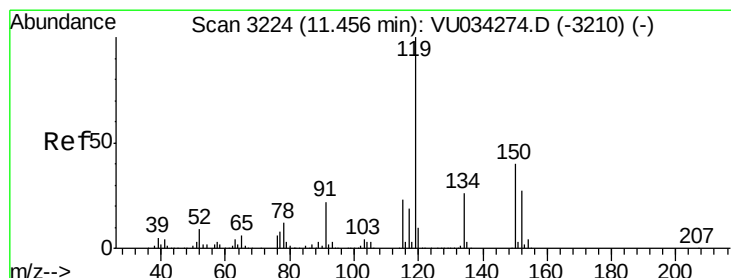
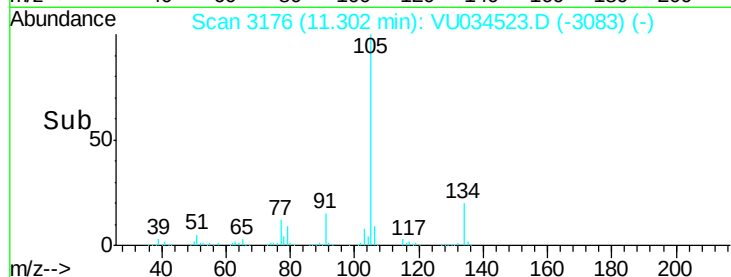
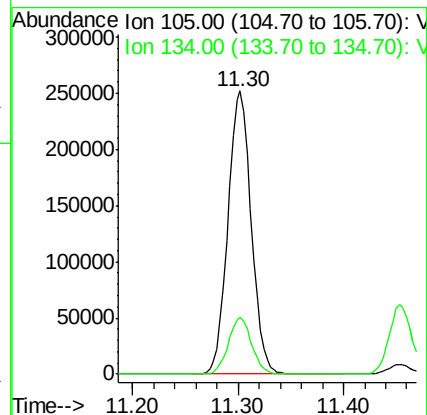
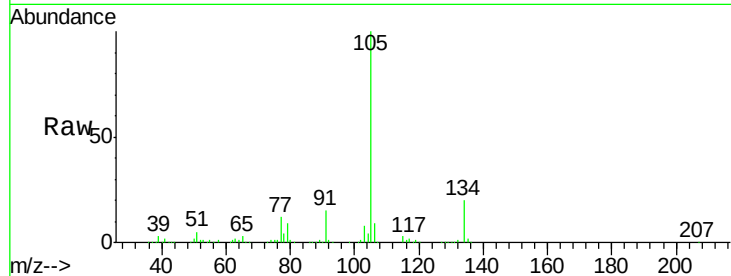
134 20.0 10.1 30.3

Manual Integrations

APPROVED

MMDadoda

9/16/2019 11:16:53 AM



#86

p-Isopropyltoluene

Concen: 25.052 ug/l

RT: 11.45 min Scan# 3223

Delta R.T. -0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

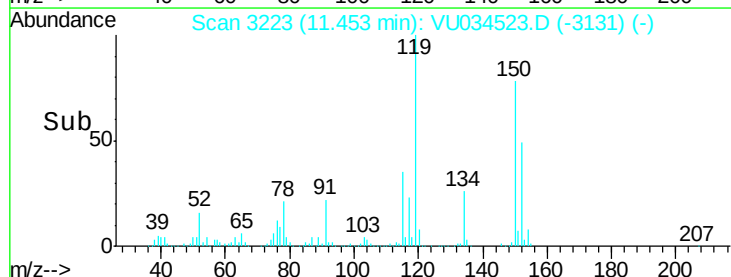
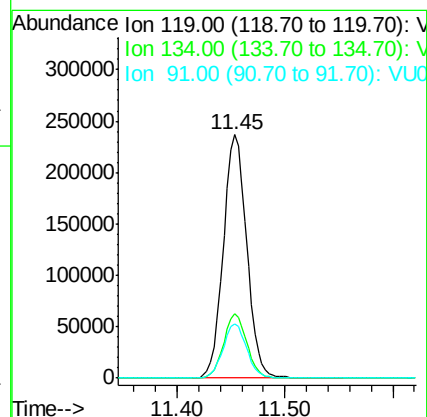
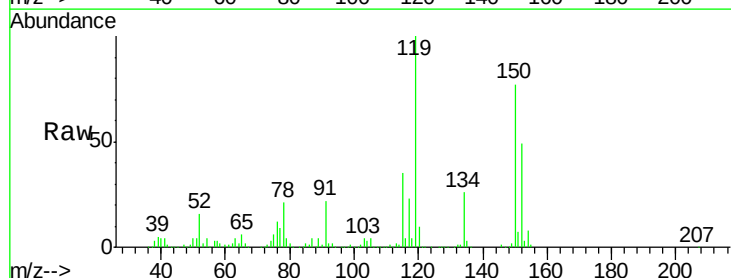
Tgt Ion:119 Resp: 354845

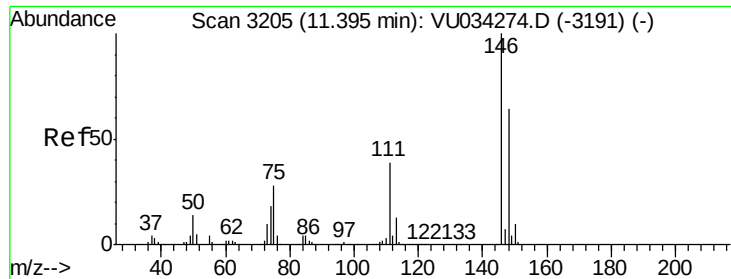
Ion Ratio Lower Upper

119 100

134 26.3 13.3 39.8

91 22.6 11.2 33.6





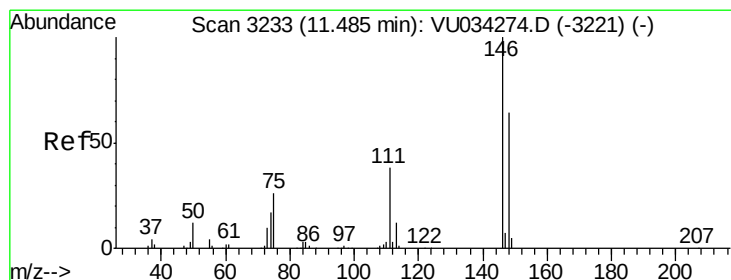
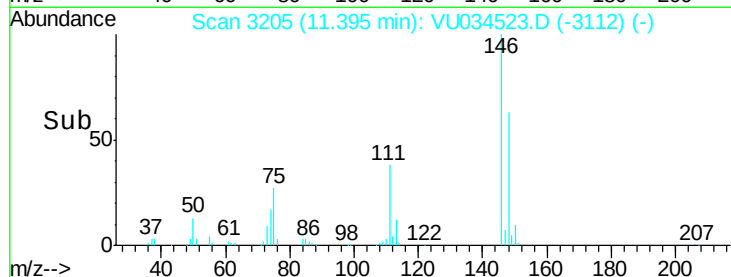
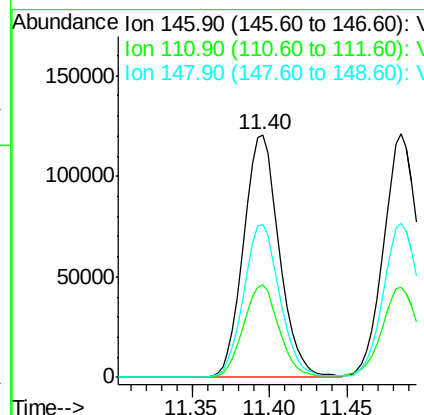
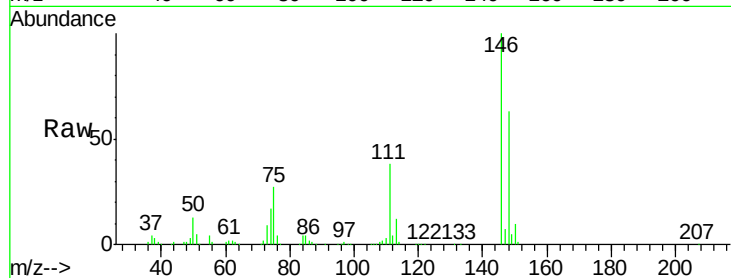
#87
 1,3-Dichlorobenzene
 Concen: 24.509 ug/l
 RT: 11.40 min Scan# 3205
 Delta R.T. 0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS03

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.5	58.5
148	63.7	32.1	96.3

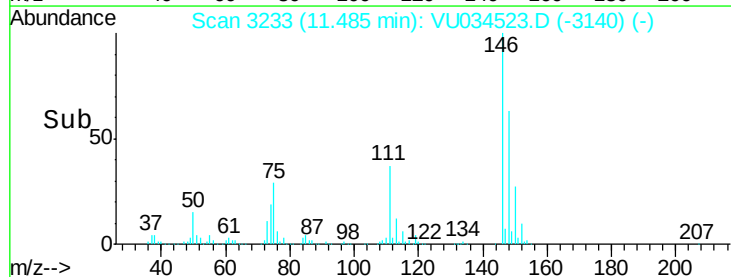
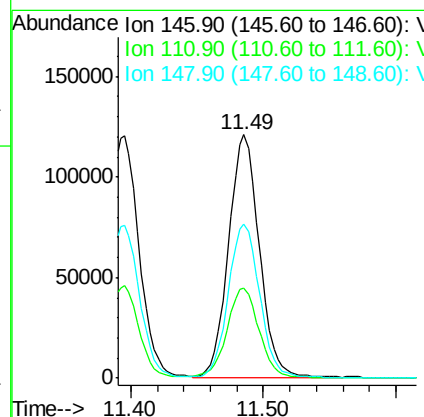
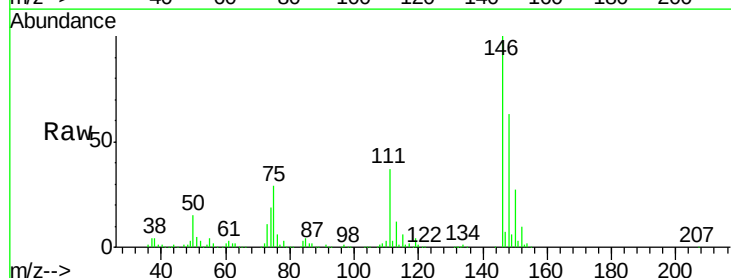
Manual Integrations
 APPROVED

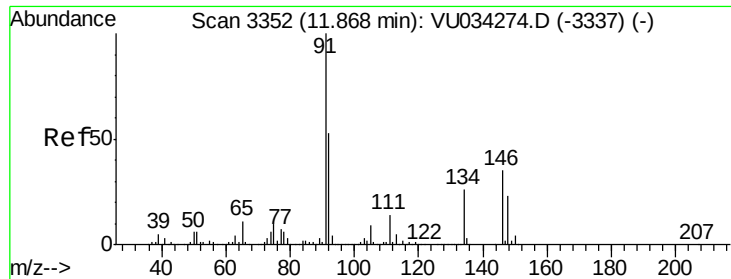
MMDadoda
 9/16/2019 11:16:53 AM



#88
 1,4-Dichlorobenzene
 Concen: 23.439 ug/l
 RT: 11.49 min Scan# 3233
 Delta R.T. 0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.1	57.3
148	64.6	32.0	96.0





#89

n-Butylbenzene

Concen: 24.750 ug/l

RT: 11.87 min Scan# 3352

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

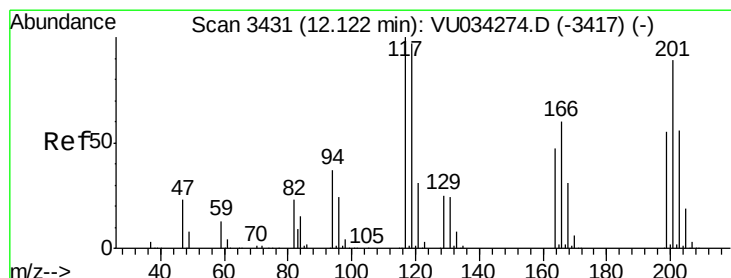
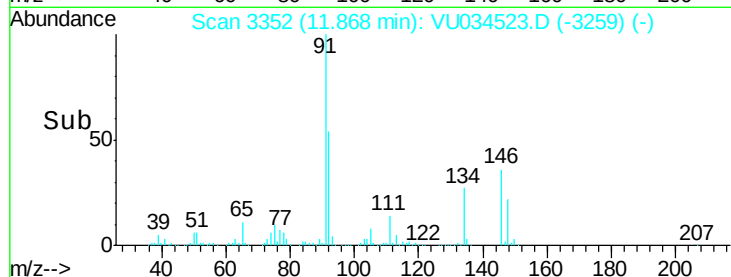
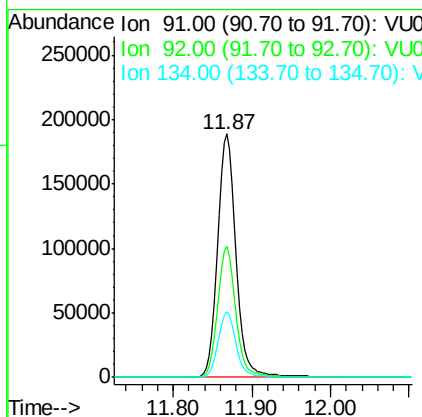
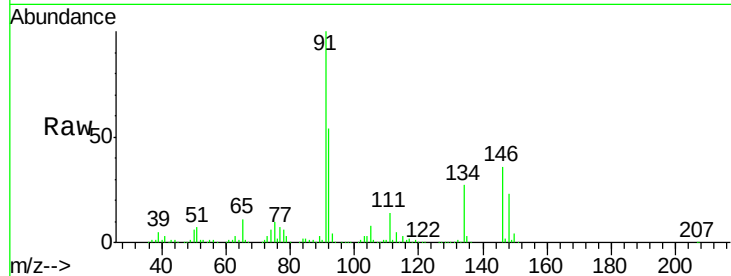
ClientSampleId :

VU0912WBS03

Tot Ion:	91	Resp:	304644
Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.5	79.4
134	26.3	13.2	39.6

Manual Integrations
APPROVED

MMDadoda
9/16/2019 11:16:53 AM



#90

Hexachloroethane

Concen: 23.516 ug/l

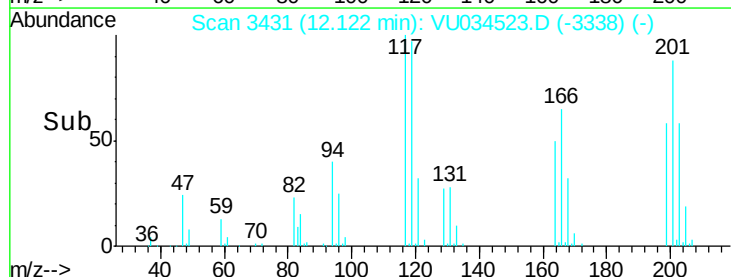
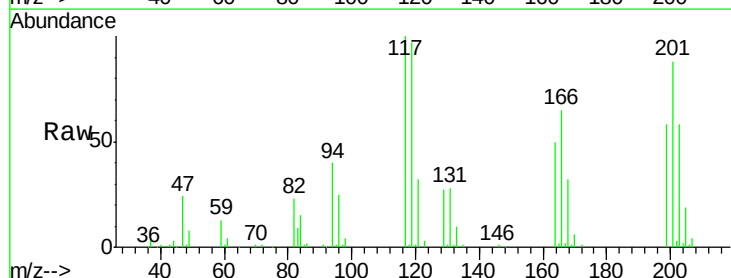
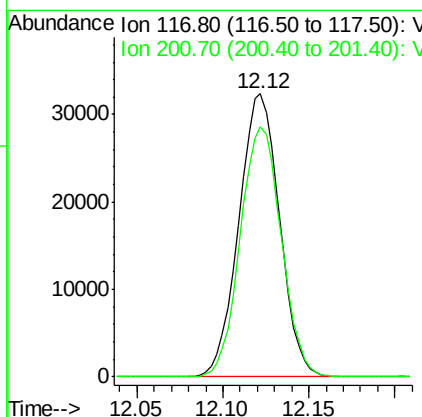
RT: 12.12 min Scan# 3431

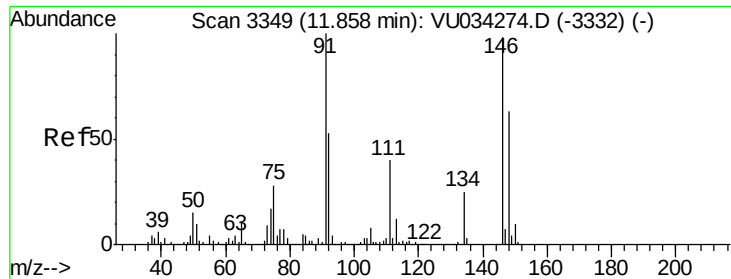
Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Tgt Ion:	117	Resp:	53290
Ion	Ratio	Lower	Upper
117	100		
201	88.9	44.1	132.4





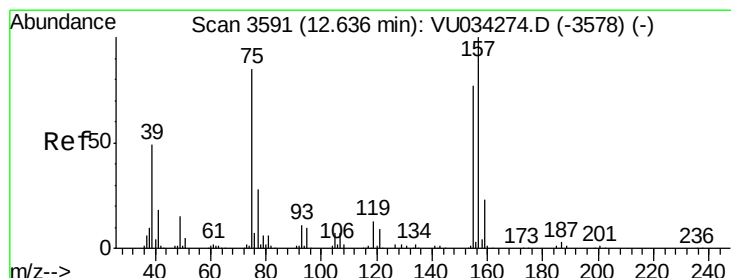
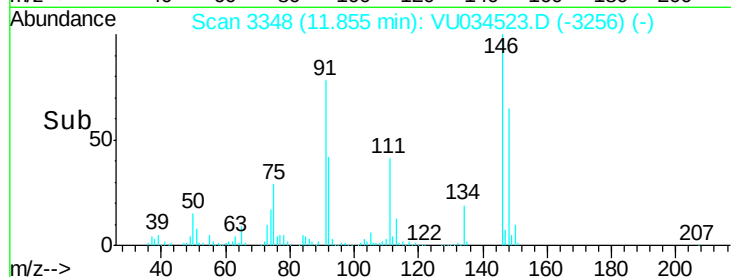
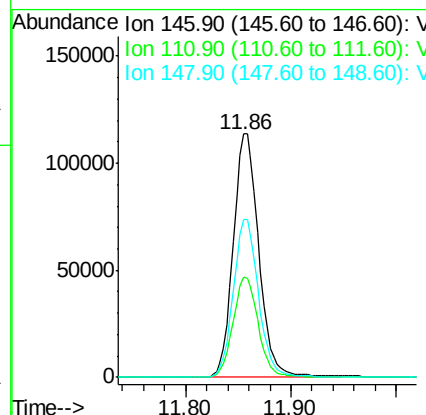
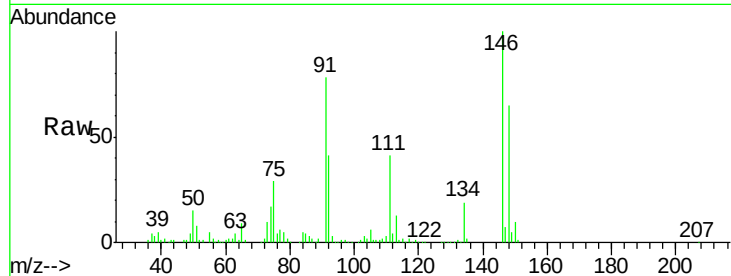
#91
 1,2-Dichlorobenzene
 Concen: 24.479 ug/l
 RT: 11.86 min Scan# 3348
 Delta R.T. -0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS03

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.0	60.0
148	63.9	31.6	94.8

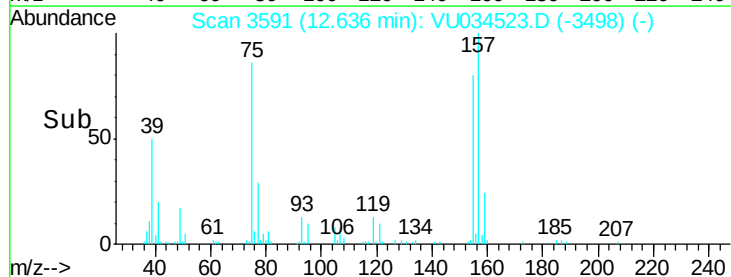
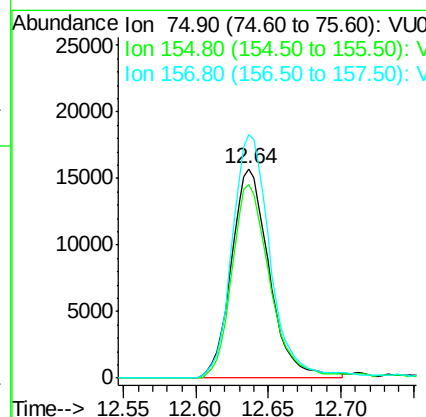
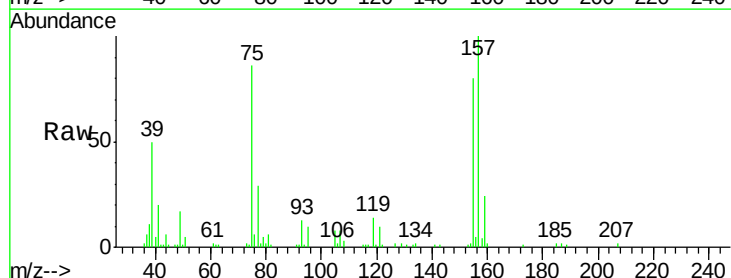
Manual Integrations
 APPROVED

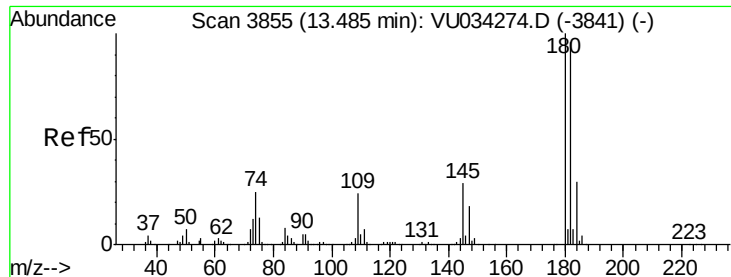
MMDadoda
 9/16/2019 11:16:53 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 24.734 ug/l
 RT: 12.64 min Scan# 3591
 Delta R.T. 0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.6	44.6	134.0
157	115.3	58.2	174.6





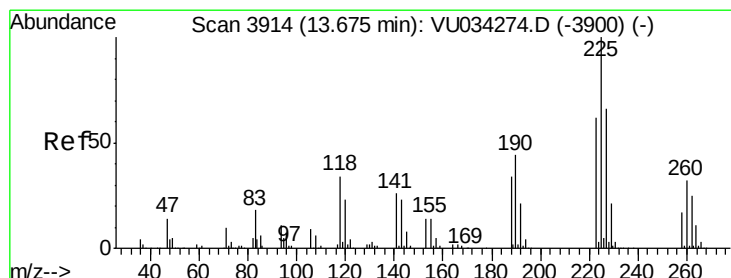
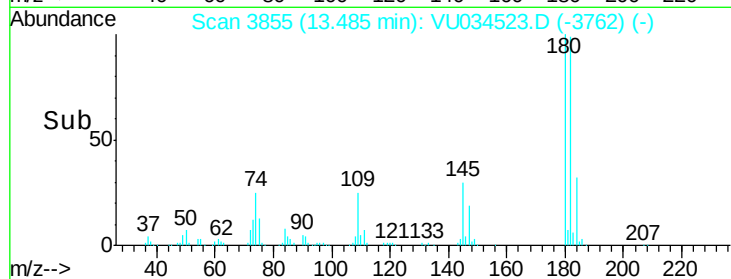
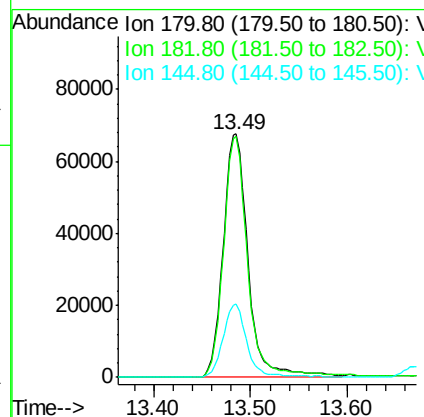
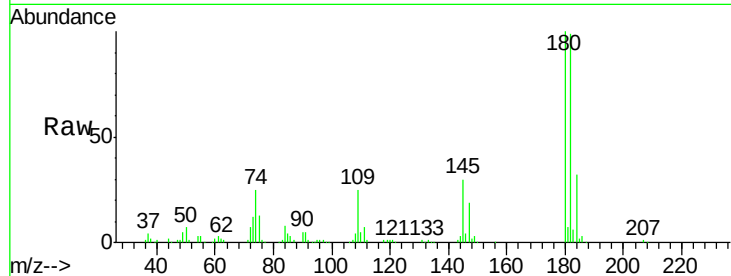
#93
 1,2,4-Trichlorobenzene
 Concen: 23.401 ug/l
 RT: 13.49 min Scan# 3855
 Delta R.T. 0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS03

Tot Ion	Ratio	Resp	Lower	Upper
180	100	121077		
182	94.6	47.9	143.8	
145	28.7	14.4	43.0	

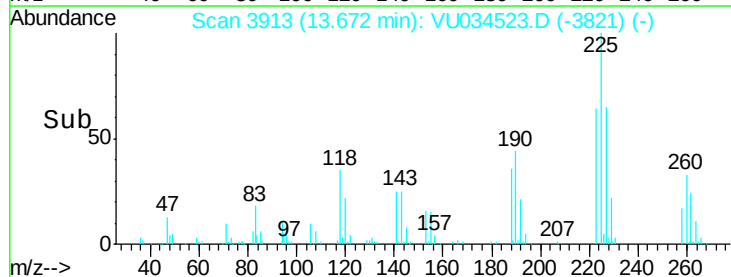
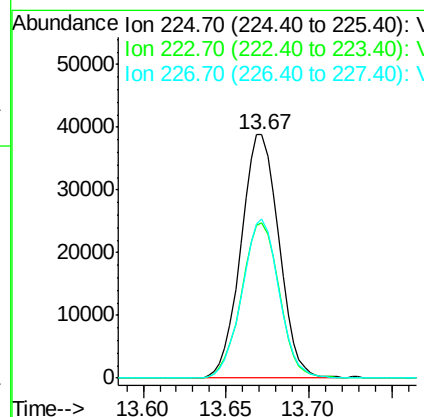
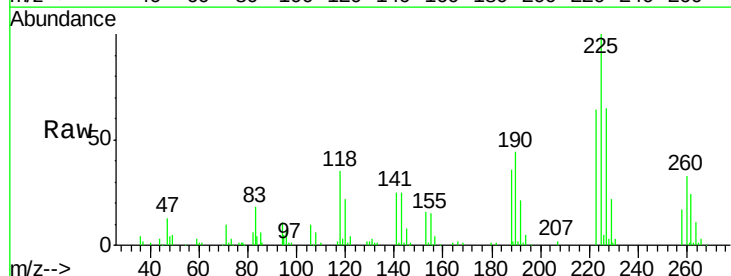
Manual Integrations
 APPROVED

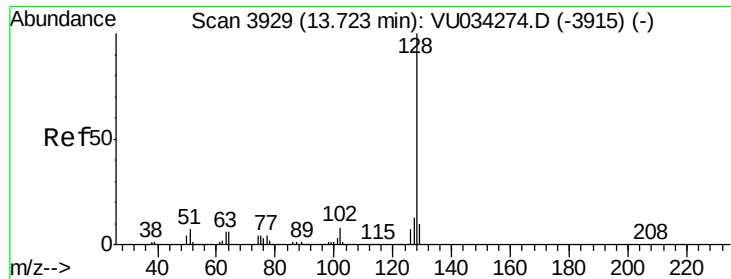
MMDadoda
 9/16/2019 11:16:53 AM



#94
 Hexachlorobutadiene
 Concen: 22.743 ug/l
 RT: 13.67 min Scan# 3913
 Delta R.T. -0.00 min
 Lab File: VU034523.D
 Acq: 12 Sep 2019 16:28

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	61978		
223	63.6	31.6	94.7	
227	63.6	32.3	96.8	





#95

Naphthalene

Concen: 22.307 ug/l

RT: 13.72 min Scan# 3929

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Instrument :

MSVOA_U

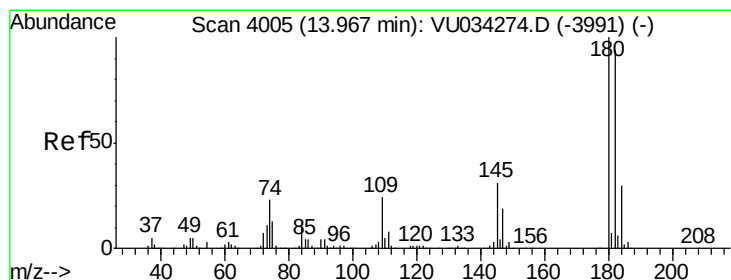
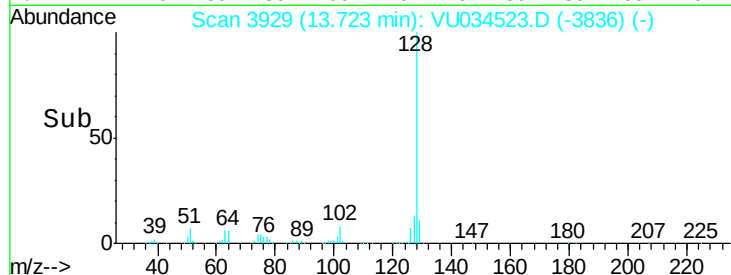
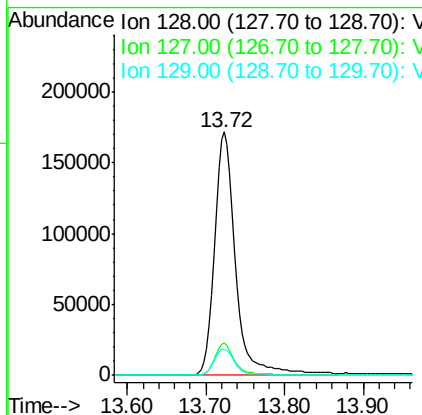
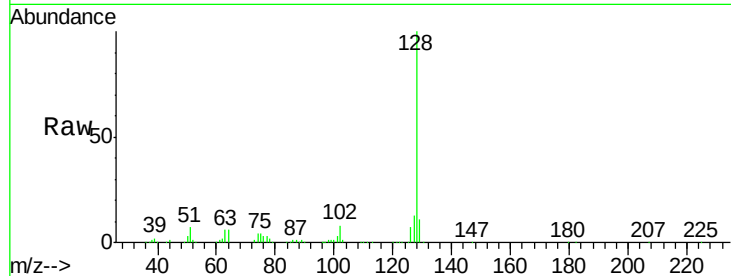
ClientSampleId :

VU0912WBS03

Tot Ion:	128	Resp:	316982
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.6	15.8
129	10.4	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
9/16/2019 11:16:53 AM



#96

1,2,3-Trichlorobenzene

Concen: 24.355 ug/l

RT: 13.97 min Scan# 4005

Delta R.T. 0.00 min

Lab File: VU034523.D

Acq: 12 Sep 2019 16:28

Tgt Ion:	180	Resp:	125122
Ion Ratio	Lower	Upper	
180	100		
182	95.5	48.4	145.0
145	29.3	15.4	46.4

