

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034121.D
 Acq On : 5 Sep 2019 3:09
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:14:54 AM

Quant Time: Sep 05 10:04:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 05 10:04:57 2019
 QLast Update : Thu Sep 05 09:42:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1213167	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2242469	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2366688	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.51	95	1919383	9.92	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	453629	2.267	ppbv	96
3) Chlorodifluoromethane	2.98	51	281138	2.079	ppbv	98
4) Chloromethane	3.13	50	168835	1.997	ppbv	98
5) Vinyl Chloride	3.25	62	152005	1.974	ppbv	96
6) Bromomethane	3.48	94	77261	2.033	ppbv	93
7) Chloroethane	3.56	64	54873	2.091	ppbv #	87
8) Dichlorotetrafluoroethane	3.18	85	346396	2.151	ppbv	99
9) Propene	3.00	41	156284	2.066	ppbv	99
10) Heptane	8.18	43	416146	2.119	ppbv	97
11) Trichlorofluoromethane	3.96	101	343376	2.104	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.50	101	229823	2.105	ppbv	99
13) Ethanol	3.61	45	29964	1.750	ppbv	75
14) Bromoethene	3.74	108	99650	2.111	ppbv	98
15) Acetone	3.86	43	308661	2.111	ppbv	99
16) 1,3-Butadiene	3.32	39	157437	2.126	ppbv	97
17) tert-Butyl alcohol	4.31	59	223757	2.108	ppbv	100
18) 1,1-Dichloroethene	4.30	96	104306	2.094	ppbv	95
19) Isopropyl Alcohol	3.98	45	208347	2.118	ppbv #	99
20) Methylene Chloride	4.36	84	100401	2.077	ppbv	96
21) Allyl Chloride	4.43	41	197287	2.047	ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	99383	1.991	ppbv	94
23) Vinyl Acetate	5.10	43	529029	2.133	ppbv #	96
24) 1,1-Dichloroethane	5.04	63	345826	2.101	ppbv	98
25) Ethyl Acetate	5.72	43	690783	2.154	ppbv	99
26) Hexane	5.72	57	308055	2.159	ppbv	96
27) Carbon Disulfide	4.57	76	262626	2.044	ppbv #	91
28) Methyl tert-Butyl Ether	5.07	73	450395	2.154	ppbv	98
29) Chloroform	5.79	83	400108	2.079	ppbv	98
30) Cyclohexane	7.18	84	213526	2.070	ppbv #	82
31) cis-1,2-Dichloroethene	5.59	61	290143	2.123	ppbv	95
32) 1,1,1-Trichloroethane	6.56	97	372961	2.063	ppbv	98
34) 2-Butanone	5.28	43	459517	2.131	ppbv	99
35) Carbon Tetrachloride	7.08	117	355123	2.048	ppbv	99
36) Benzene	6.95	78	552944	2.157	ppbv	97
37) 1,2-Dichloroethane	6.35	62	326202	2.077	ppbv	99
38) Trichloroethene	7.90	130	182721m	1.928	ppbv	
39) 1,2-Dichloropropane	7.68	63	229678	2.093	ppbv	93
40) 1,4-Dioxane	7.91	88	87641m	2.165	ppbv	
41) Tetrahydrofuran	6.10	42	273584	2.126	ppbv	99
42) Bromodichloromethane	7.85	83	439033	2.142	ppbv	95
43) Methyl Methacrylate	8.07	69	229257	2.171	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034121.D
 Acq On : 5 Sep 2019 3:09
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

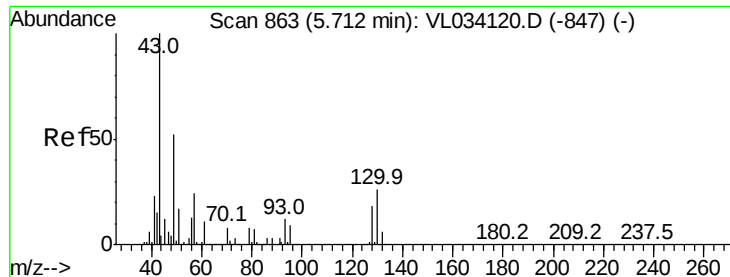
Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:14:54 AM

Quant Time: Sep 05 10:04:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 QLast Update : Thu Sep 05 09:42:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	1059993	2.243	ppbv	96
45) t-1,3-Dichloropropene	9.35	75	270461	2.182	ppbv	91
46) cis-1,3-Dichloropropene	8.77	75	330758	2.191	ppbv	95
47) 1,1,2-Trichloroethane	9.55	97	214385	2.148	ppbv	92
48) Dibromochloromethane	10.39	129	325051	2.180	ppbv	98
49) Bromoform	13.13	173	294276	2.254	ppbv	97
50) 4-Methyl-2-Pentanone	8.81	43	723042	2.198	ppbv	98
51) 2-Hexanone	10.21	43	640137	2.274	ppbv #	99
52) Tetrachloroethene	11.31	164	182283	2.032	ppbv	93
53) Toluene	9.88	91	614285	2.167	ppbv	98
54) 1,2-Dibromoethane	10.70	107	323689	2.180	ppbv	90
56) 1,1,1,2-Tetrachloroethane	12.21	131	224229	2.209	ppbv #	1
57) Chlorobenzene	12.23	112	445754	2.189	ppbv #	95
58) Ethyl Benzene	12.80	91	867879	2.239	ppbv	95
59) m/p-Xylene	13.08	91	1421181m	4.500	ppbv	
60) o-Xylene	13.78	91	692055	2.195	ppbv	100
61) Styrene	13.62	104	523483	2.222	ppbv	98
62) Isopropylbenzene	14.76	105	907426	2.213	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.77	83	514309	1.994	ppbv	98
64) n-propylbenzene	15.65	120	230558	2.211	ppbv	84
65) tert-Butylbenzene	16.84	119	798393m	2.260	ppbv	
66) Benzyl Chloride	17.09	91	292165	2.244	ppbv	96
67) sec-Butylbenzene	17.39	105	1165080	2.289	ppbv	97
69) p-Isopropyltoluene	17.75	119	932925	2.295	ppbv	98
70) n-Butylbenzene	18.64	91	1066298	2.300	ppbv	97
71) 2-Chlorotoluene	15.55	91	751837	2.243	ppbv	98
72) 4-Ethyltoluene	15.93	105	799701	2.248	ppbv	98
73) 1,3,5-Trimethylbenzene	16.09	105	783045	2.265	ppbv	99
74) 1,2,4-Trimethylbenzene	16.86	105	817009	2.295	ppbv	92
75) 1,3-Dichlorobenzene	17.09	146	421047	2.233	ppbv	99
76) 1,4-Dichlorobenzene	17.24	146	427733	2.151	ppbv	99
77) 1,2-Dichlorobenzene	17.92	146	426292	2.212	ppbv	98
78) Hexachloro-1,3-Butadiene	23.47	225	294938m	2.244	ppbv	
79) Naphthalene	22.33	128	744619	2.315	ppbv	99
80) Naphthalene, 2-methyl-	25.06	142	201398	1.803	ppbv	96
81) 1,2,4-Trichlorobenzene	22.05	180	402956m	2.301	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1213167

Ion Ratio Lower Upper

49 100

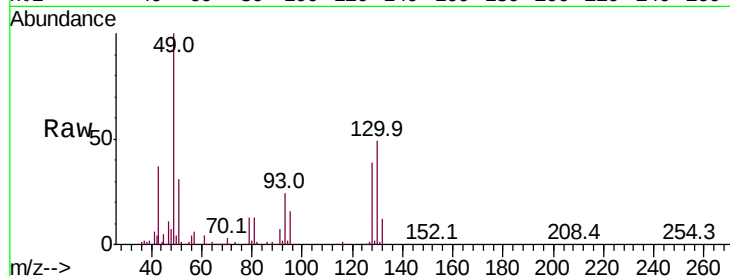
128 37.7 18.4 55.0

130 47.2 23.5 70.6

Manual Integrations
APPROVED

MMDadoda

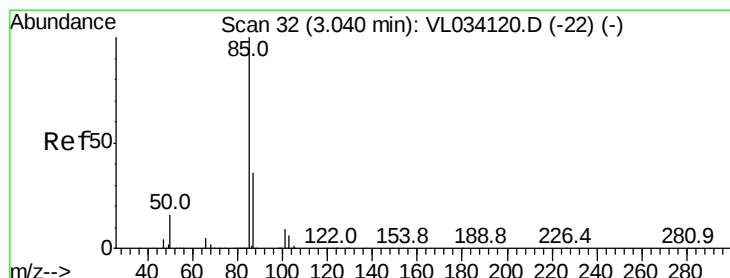
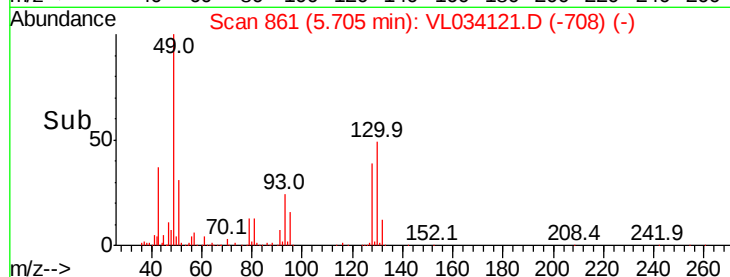
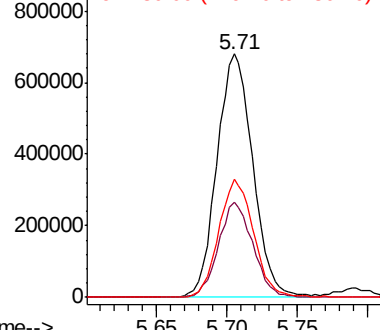
9/12/2019 5:14:54 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 2.267 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL034121.D

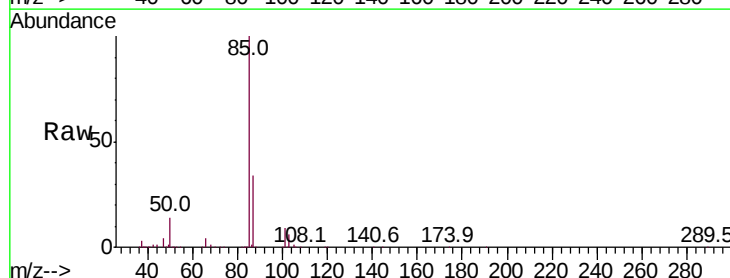
Acq: 5 Sep 2019 3:09

Tgt Ion: 85 Resp: 453629

Ion Ratio Lower Upper

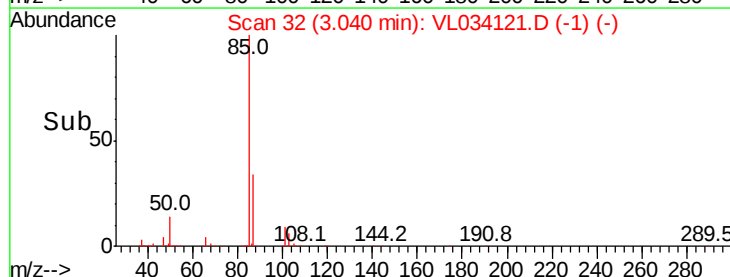
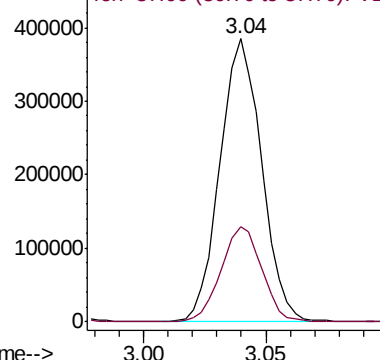
85 100

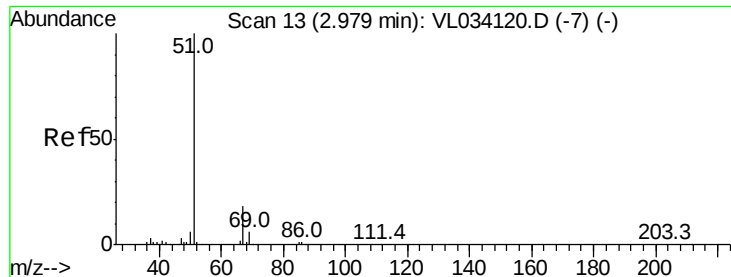
87 33.7 28.6 43.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





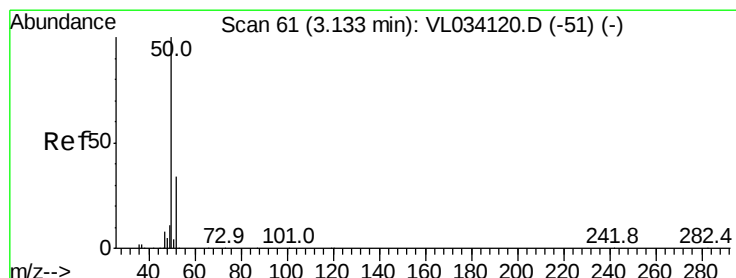
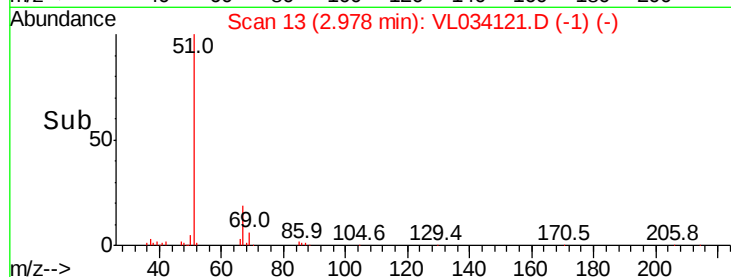
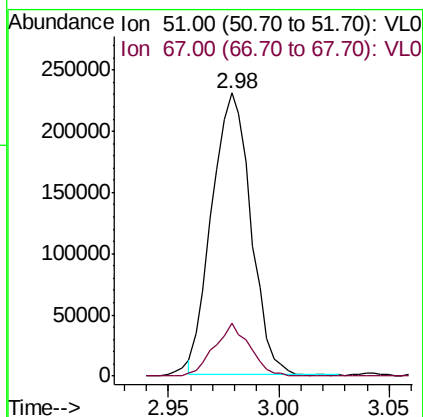
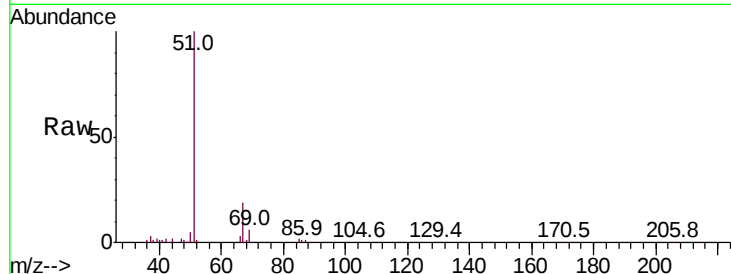
#3
Chlorodifluoromethane
Concen: 2.079 ppbv
RT: 2.98 min Scan# 13
Delta R.T. -0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
51	100		
67	16.9	14.2	21.4

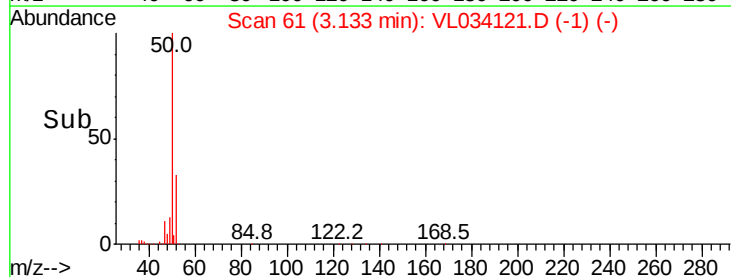
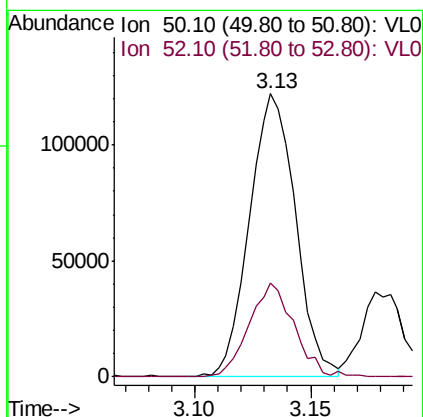
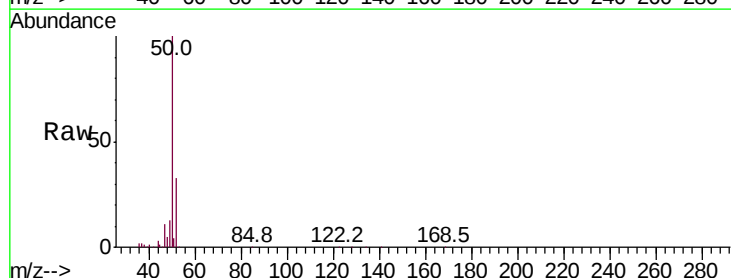
Manual Integrations
APPROVED

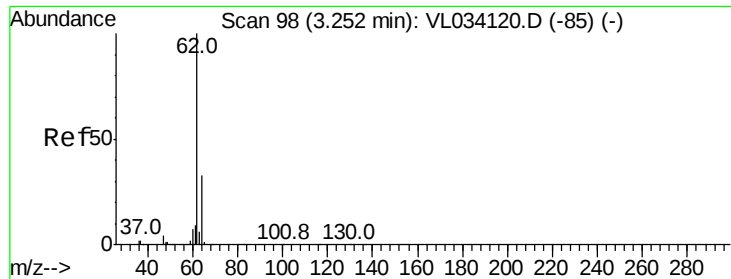
MMDadoda
9/12/2019 5:14:54 AM



#4
Chloromethane
Concen: 1.997 ppbv
RT: 3.13 min Scan# 61
Delta R.T. -0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.2	27.4	41.2





#5

Vinyl Chloride

Concen: 1.974 ppbv

RT: 3.25 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 152005

Ion Ratio Lower Upper

62 100

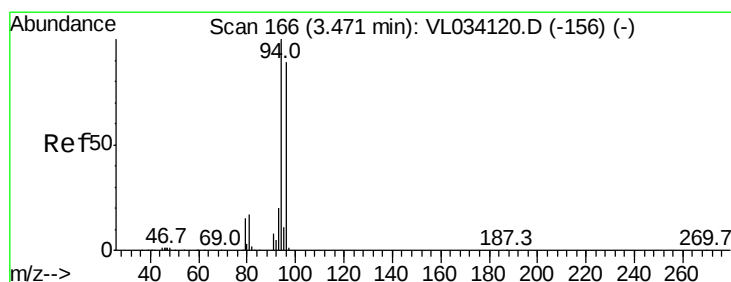
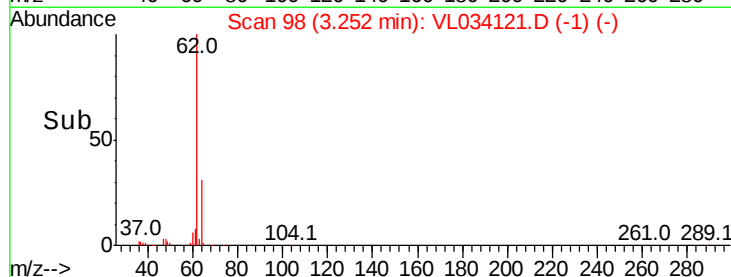
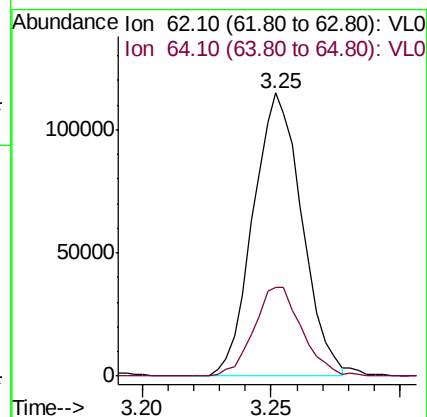
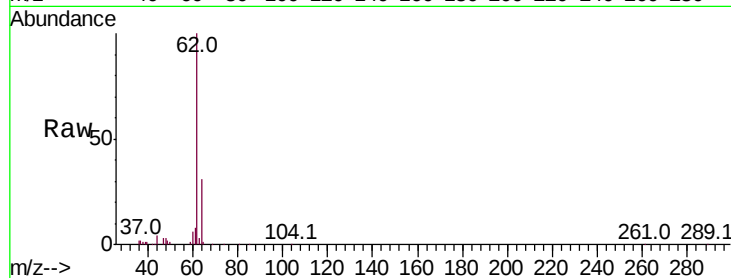
64 31.2 26.6 39.8

Manual Integrations

APPROVED

MMDadoda

9/12/2019 5:14:54 AM



#6

Bromomethane

Concen: 2.033 ppbv

RT: 3.48 min Scan# 168

Delta R.T. 0.01 min

Lab File: VL034121.D

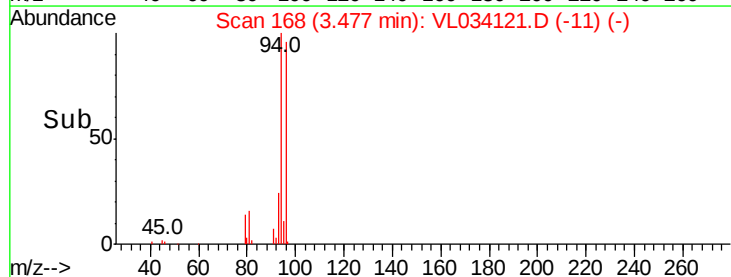
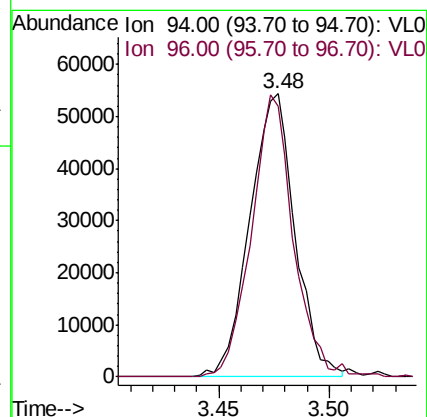
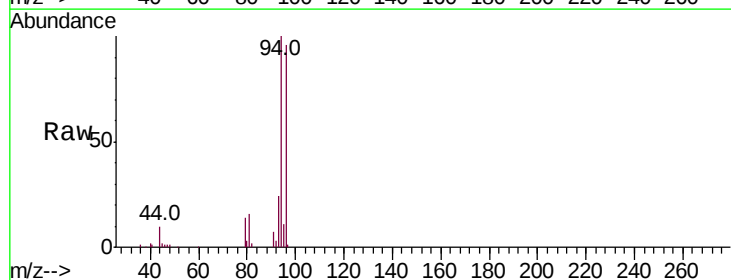
Acq: 5 Sep 2019 3:09

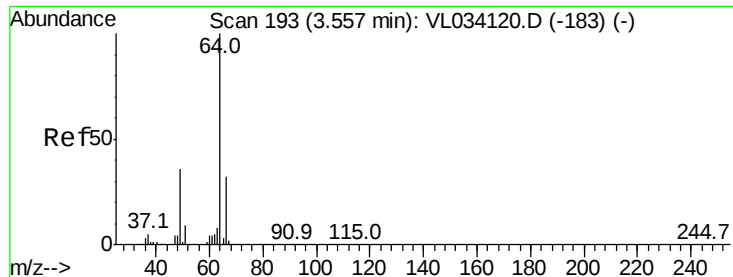
Tgt Ion: 94 Resp: 77261

Ion Ratio Lower Upper

94 100

96 95.5 71.4 107.0





#7

Chloroethane

Concen: 2.091 ppbv

RT: 3.56 min Scan# 193

Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 54873

Ion Ratio Lower Upper

64 100

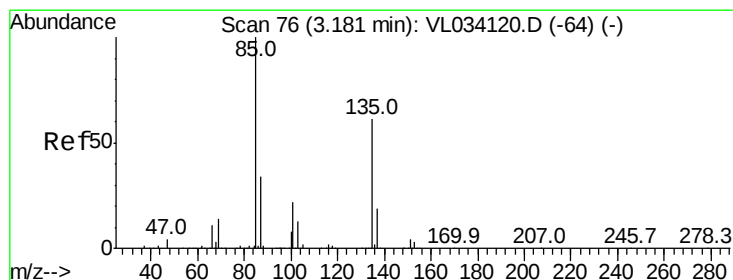
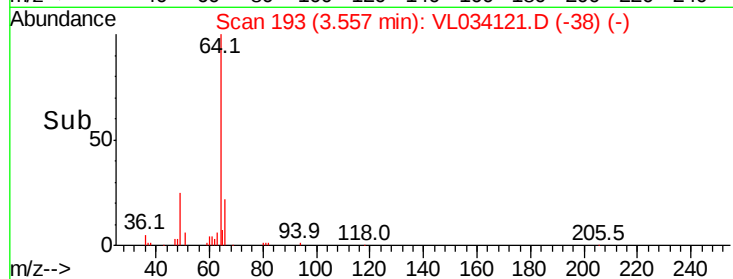
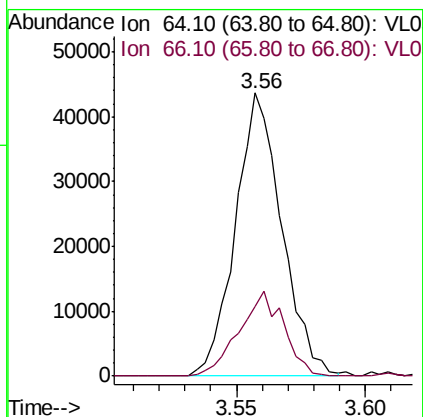
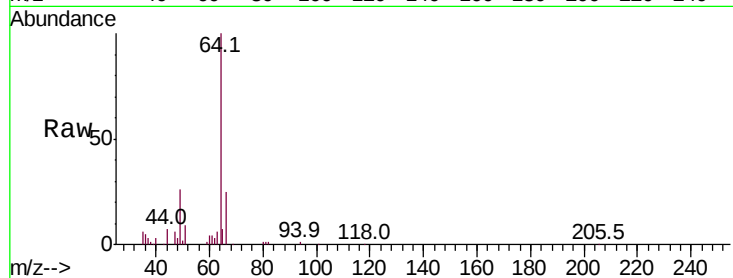
66 24.6 25.4 38.2#

Manual Integrations

APPROVED

MMDadoda

9/12/2019 5:14:54 AM



#8

Dichlorotetrafluoroethane

Concen: 2.151 ppbv

RT: 3.18 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL034121.D

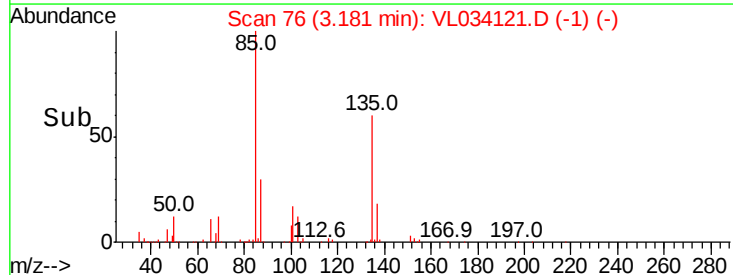
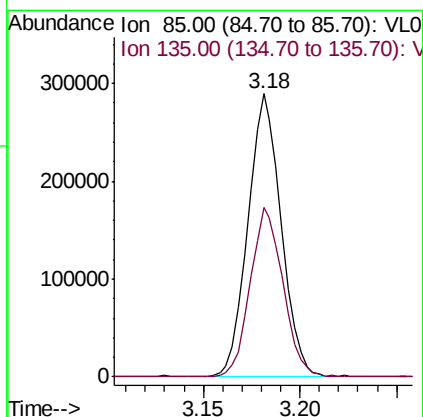
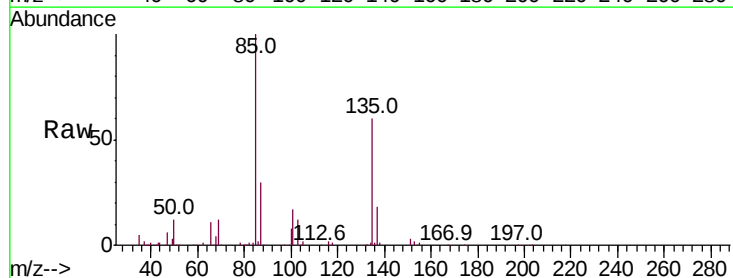
Acq: 5 Sep 2019 3:09

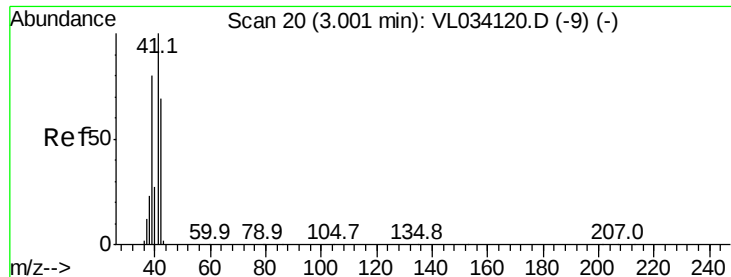
Tgt Ion: 85 Resp: 346396

Ion Ratio Lower Upper

85 100

135 59.1 48.0 72.0





#9

Propene

Concen: 2.066 ppbv

RT: 3.00 min Scan# 20

Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 156284

Ion Ratio Lower Upper

41 100

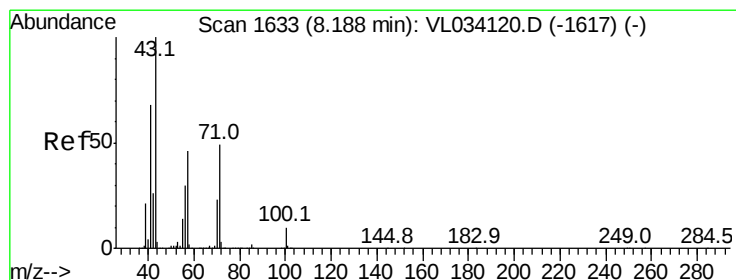
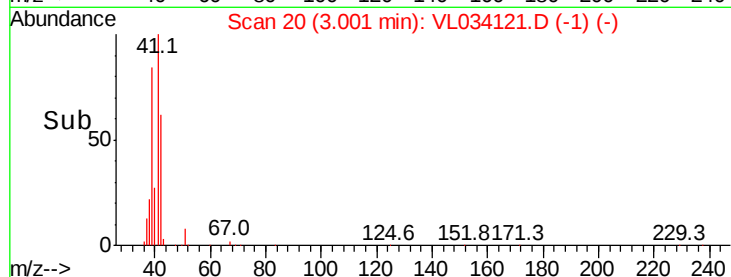
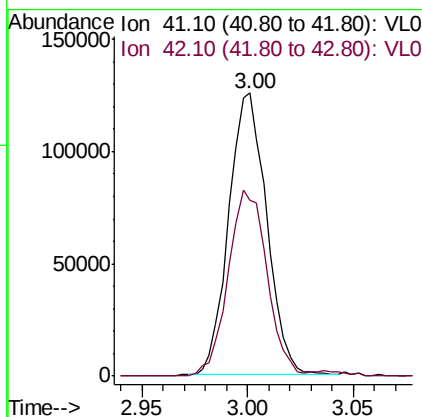
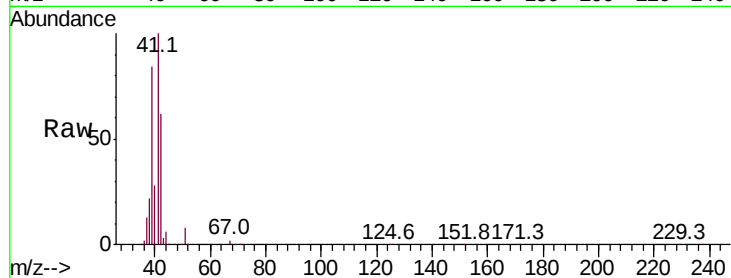
42 69.1 54.6 81.8

Manual Integrations

APPROVED

MMDadoda

9/12/2019 5:14:54 AM



#10

Heptane

Concen: 2.119 ppbv

RT: 8.18 min Scan# 1632

Delta R.T. -0.00 min

Lab File: VL034121.D

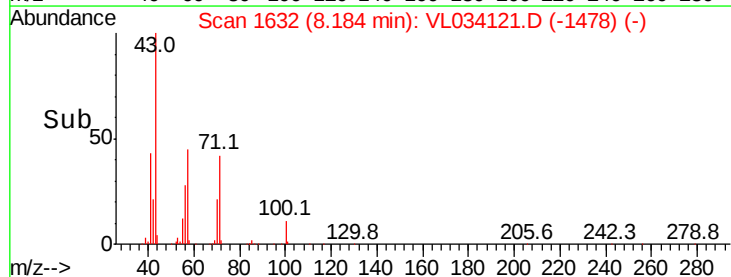
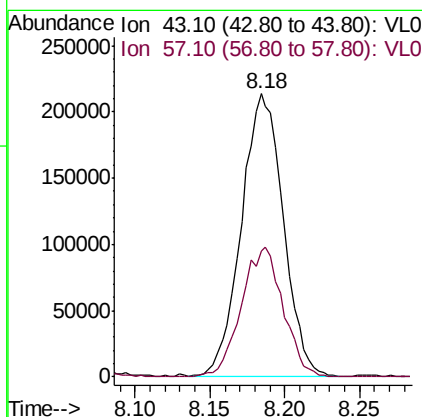
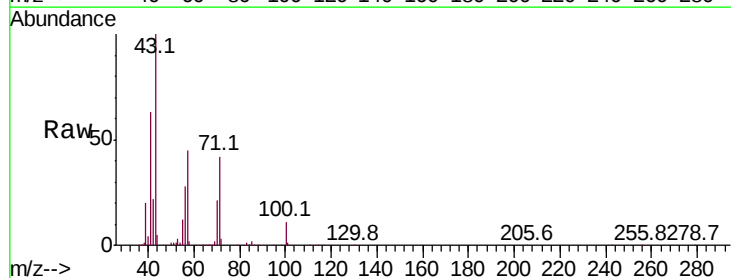
Acq: 5 Sep 2019 3:09

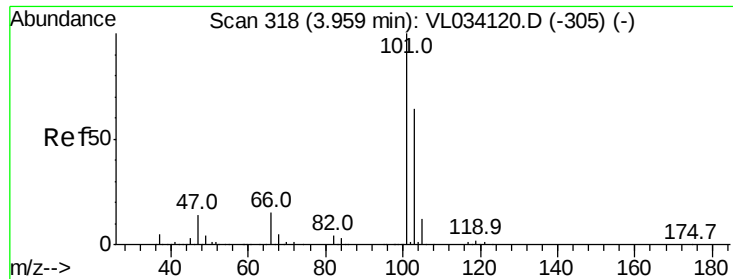
Tgt Ion: 43 Resp: 416146

Ion Ratio Lower Upper

43 100

57 45.7 38.1 57.1





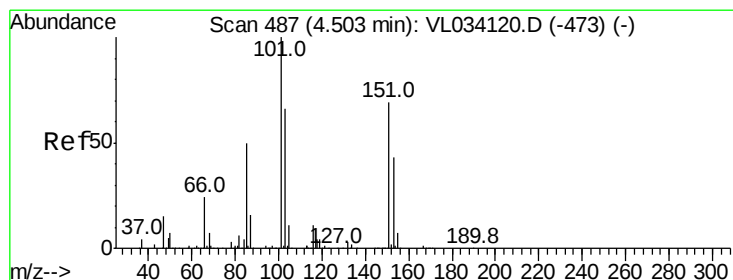
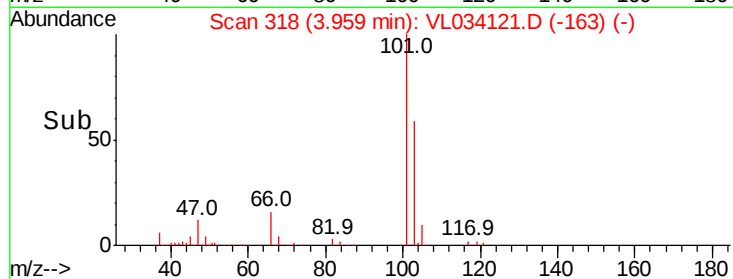
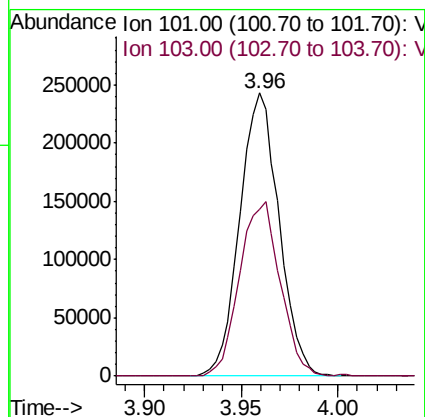
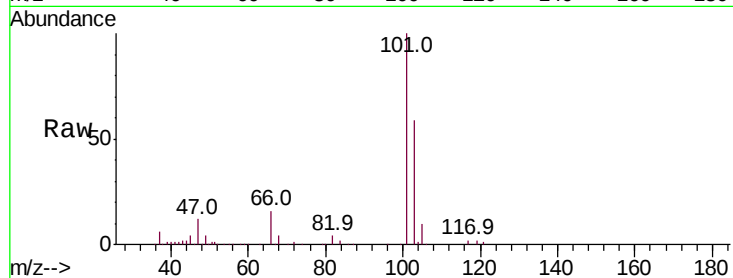
#11
 Trichlorofluoromethane
 Concen: 2.104 ppbv
 RT: 3.96 min Scan# 318
 Delta R.T. -0.00 min
 Lab File: VL034121.D
 Acq: 5 Sep 2019 3:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:101 Resp: 343376
 Ion Ratio Lower Upper
 101 100
 103 58.9 51.4 77.2

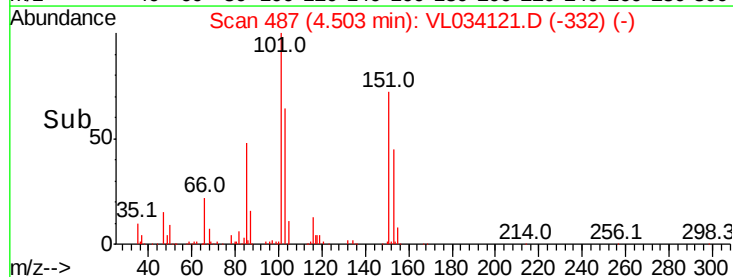
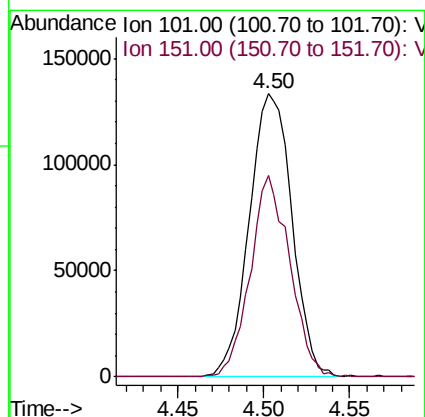
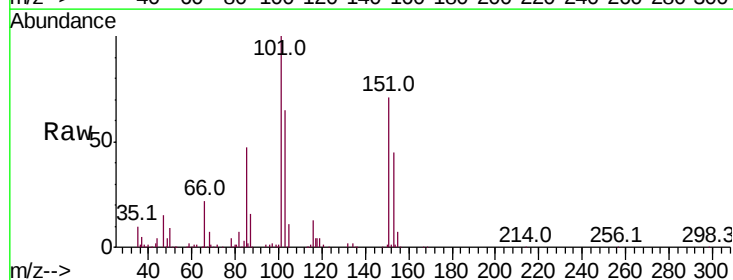
Manual Integrations
 APPROVED

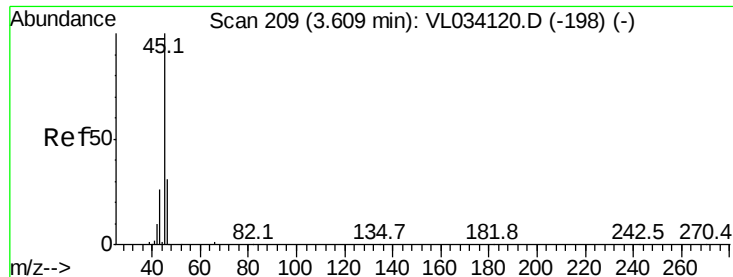
MMDadoda
 9/12/2019 5:14:54 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.105 ppbv
 RT: 4.50 min Scan# 487
 Delta R.T. -0.00 min
 Lab File: VL034121.D
 Acq: 5 Sep 2019 3:09

Tgt Ion:101 Resp: 229823
 Ion Ratio Lower Upper
 101 100
 151 65.7 53.0 79.6





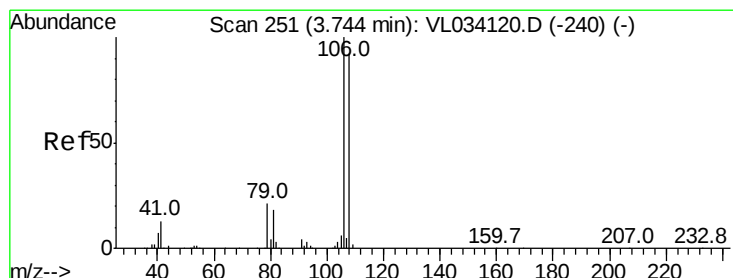
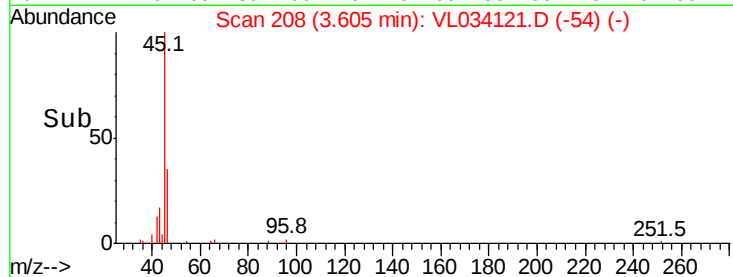
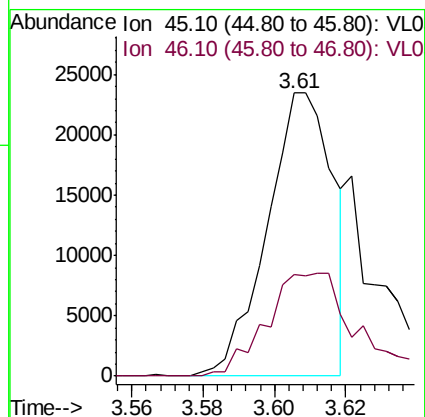
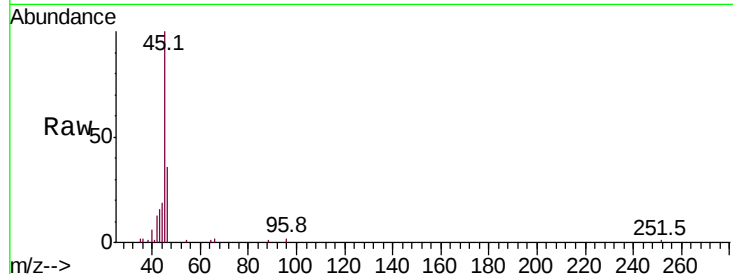
#13
Ethanol
Concen: 1.750 ppbv
RT: 3.61 min Scan# 208
Delta R.T. -0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Instrument :
MSVOA_L
ClientSampled :
VSTDIC002

Tot Ion: 45 Resp: 29964
Ion Ratio Lower Upper
45 100
46 52.7 15.0 60.0

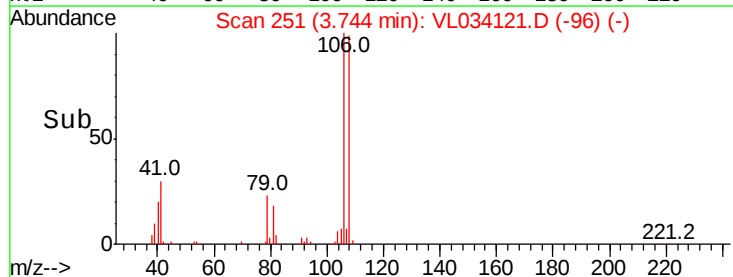
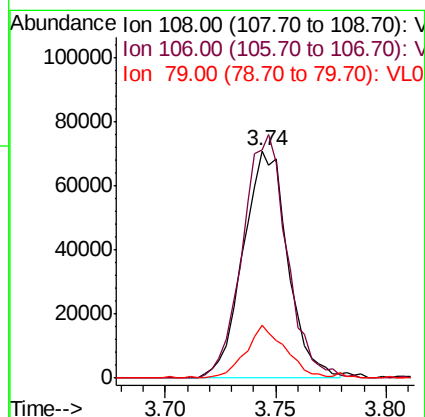
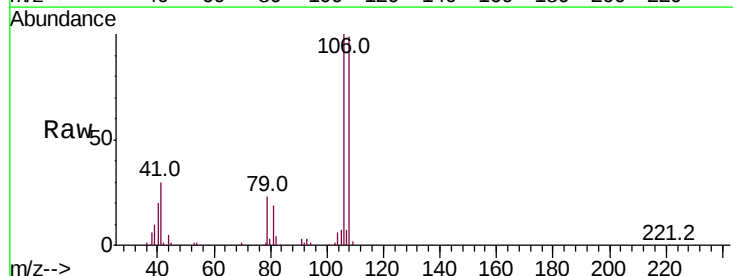
Manual Integrations
APPROVED

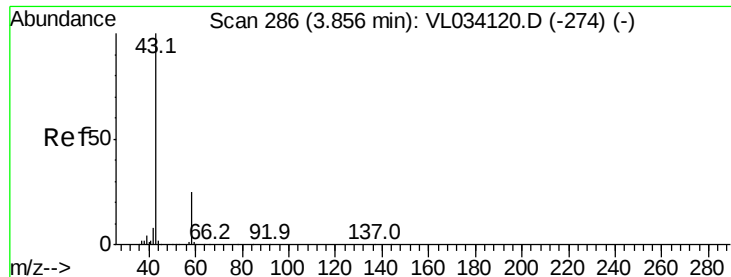
MMDadoda
9/12/2019 5:14:54 AM



#14
Bromoethene
Concen: 2.111 ppbv
RT: 3.74 min Scan# 251
Delta R.T. -0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Tgt Ion: 108 Resp: 99650
Ion Ratio Lower Upper
108 100
106 106.3 87.2 130.8
79 21.5 16.5 24.7





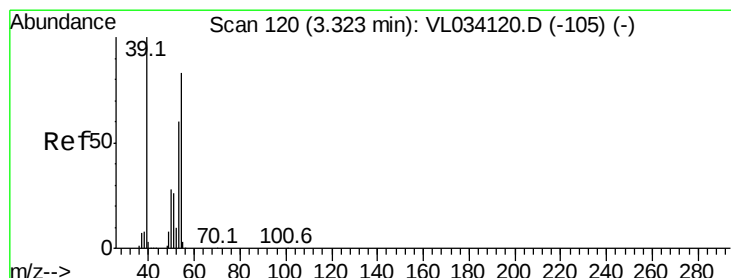
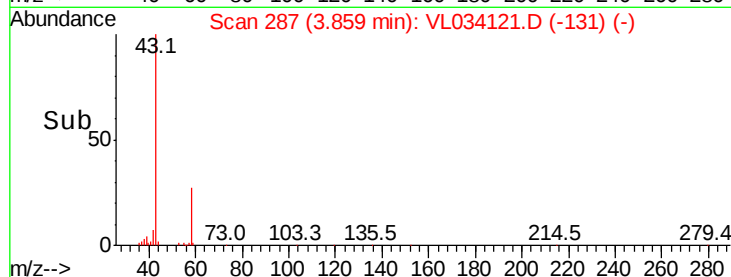
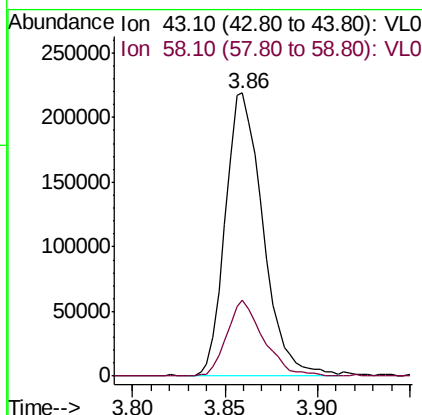
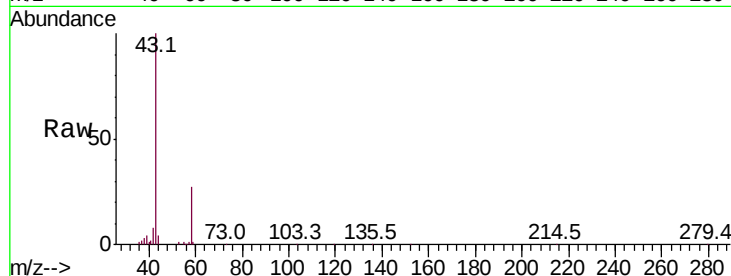
#15
Acetone
Concen: 2.111 ppbv
RT: 3.86 min Scan# 287
Delta R.T. 0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 43 Resp: 308661
Ion Ratio Lower Upper
43 100
58 26.1 20.6 30.8

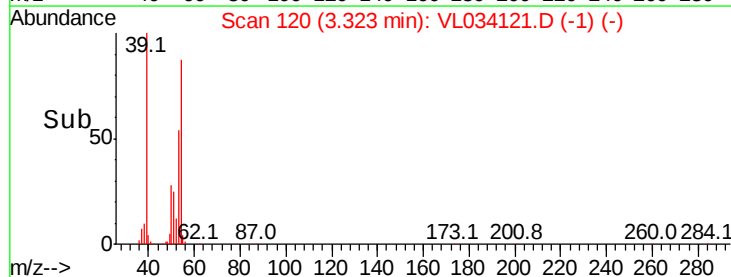
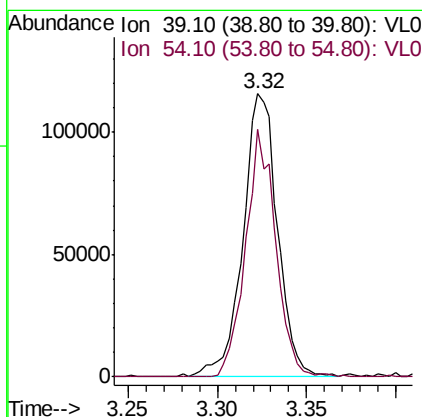
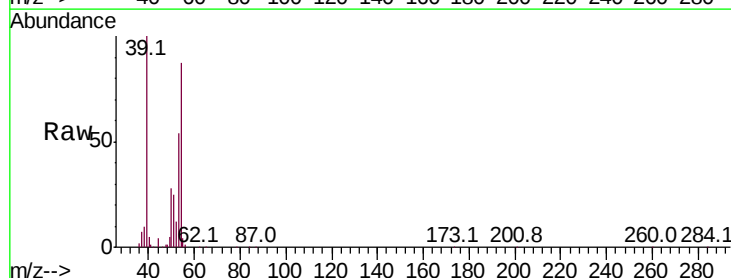
Manual Integrations
APPROVED

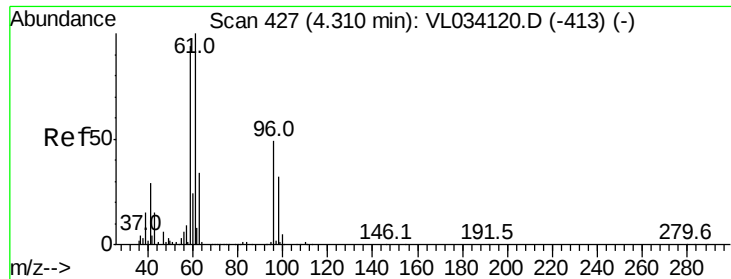
MMDadoda
9/12/2019 5:14:54 AM



#16
1,3-Butadiene
Concen: 2.126 ppbv
RT: 3.32 min Scan# 120
Delta R.T. -0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Tgt Ion: 39 Resp: 157437
Ion Ratio Lower Upper
39 100
54 76.6 63.5 95.3





#17

tert-Butyl alcohol

Concen: 2.108 ppbv

RT: 4.31 min Scan# 428

Delta R.T. 0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :
MSVOA_L

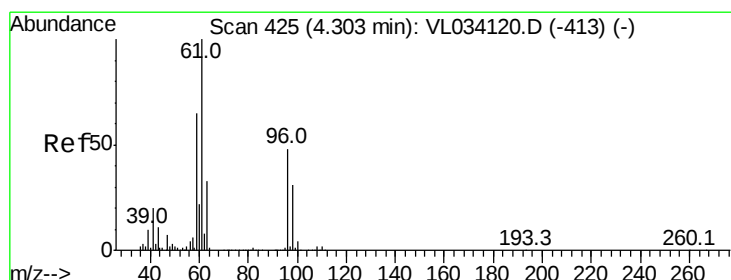
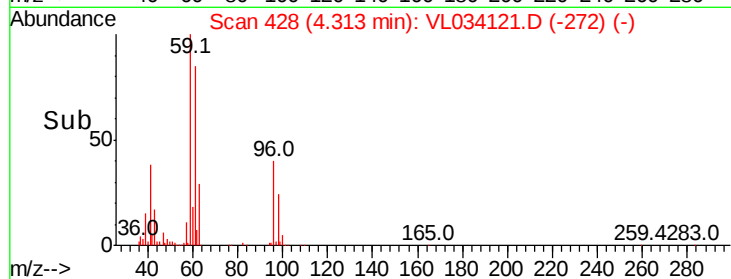
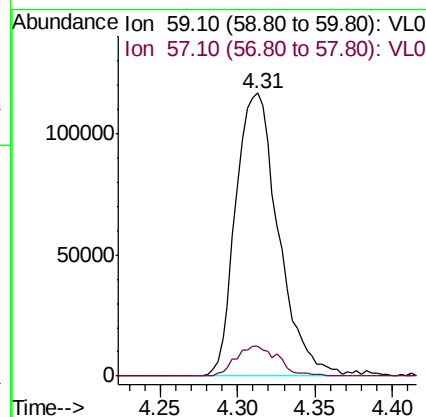
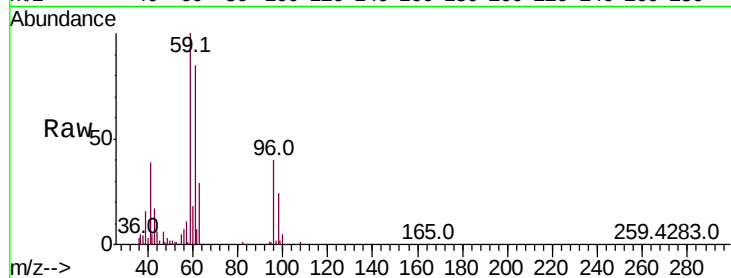
ClientSampled :
VSTDIC002

Tot Ion: 59 Resp: 223757

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:14:54 AM



#18

1,1-Dichloroethene

Concen: 2.094 ppbv

RT: 4.30 min Scan# 425

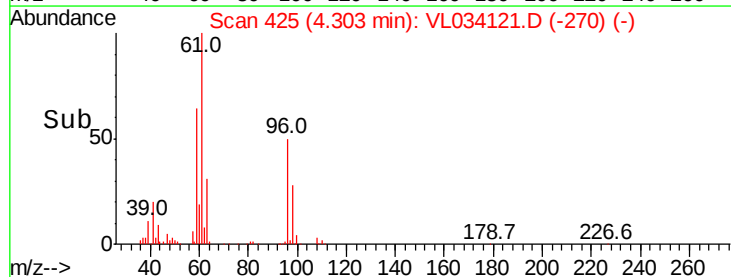
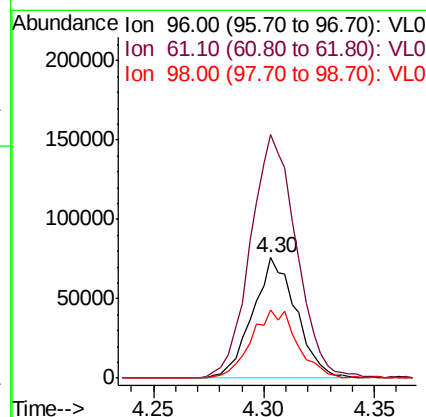
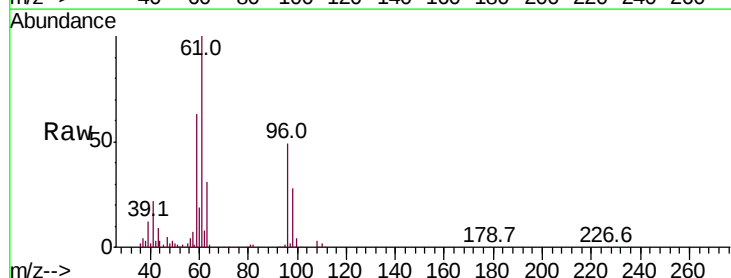
Delta R.T. -0.00 min

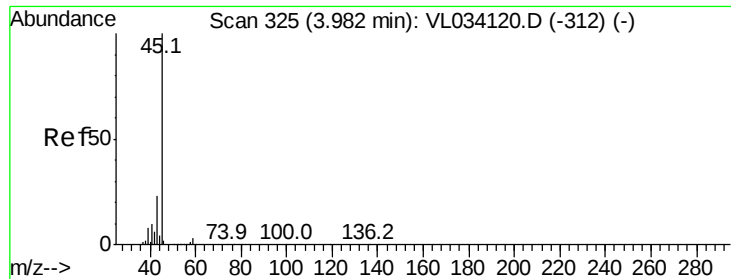
Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Tgt Ion: 96 Resp: 104306

Ion	Ratio	Lower	Upper
96	100		
61	201.5	165.8	248.8
98	56.8	50.8	76.2





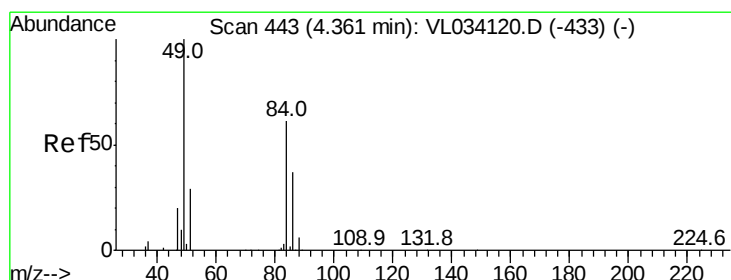
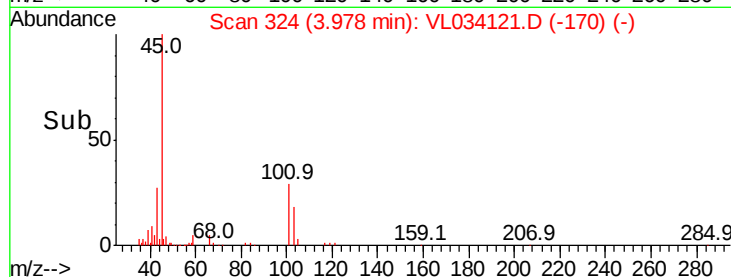
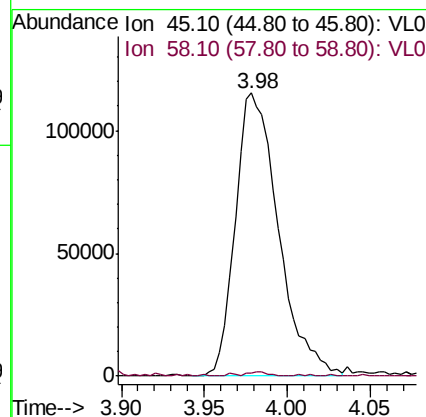
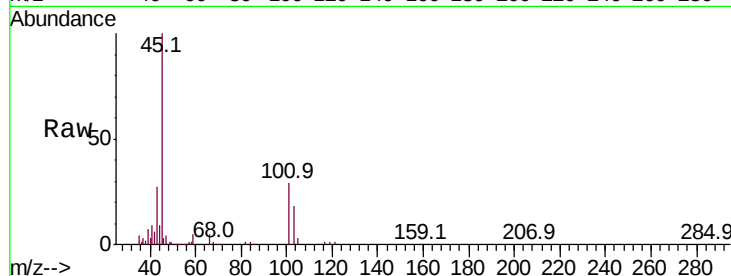
#19
Isopropyl Alcohol
Concen: 2.118 ppbv
RT: 3.98 min Scan# 324
Delta R.T. -0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 45 Resp: 208347
Ion Ratio Lower Upper
45 100
58 1.7 1.0 1.6#

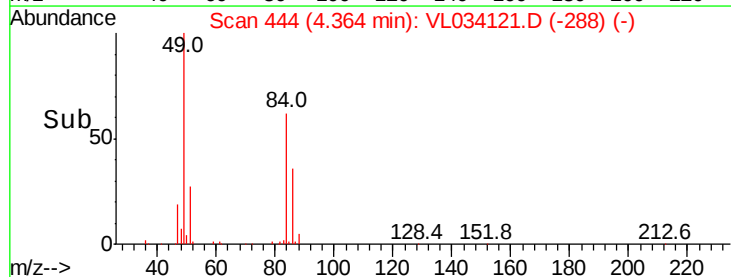
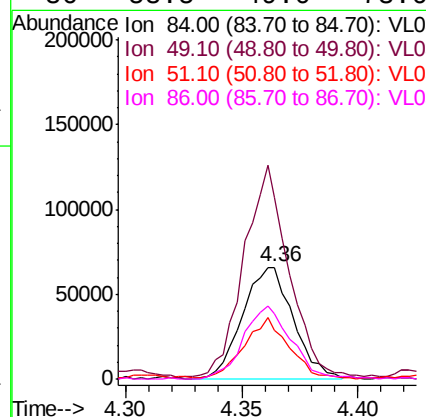
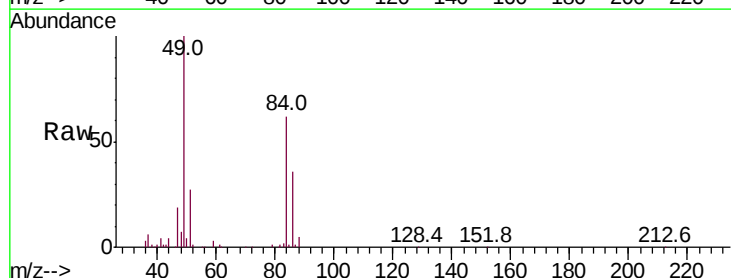
Manual Integrations
APPROVED

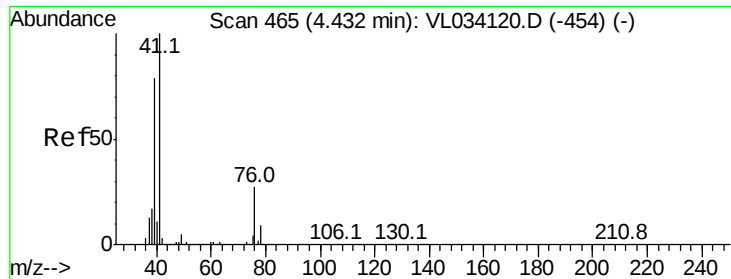
MMDadoda
9/12/2019 5:14:54 AM



#20
Methylene Chloride
Concen: 2.077 ppbv
RT: 4.36 min Scan# 444
Delta R.T. 0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Tgt Ion: 84 Resp: 100401
Ion Ratio Lower Upper
84 100
49 159.4 131.0 196.6
51 42.5 38.1 57.1
86 58.5 49.0 73.6





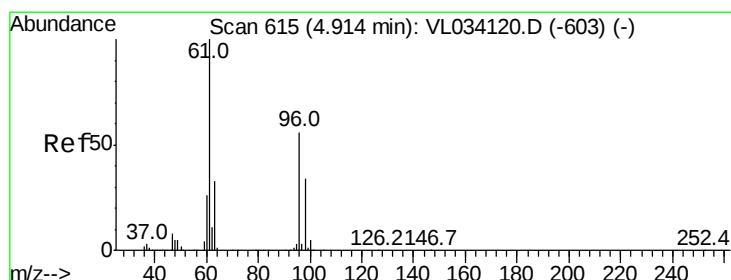
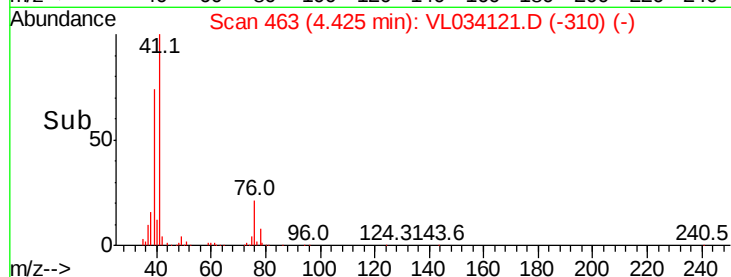
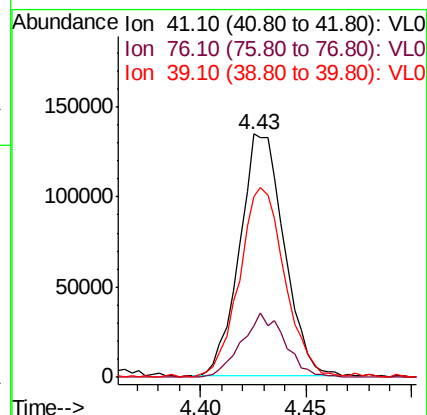
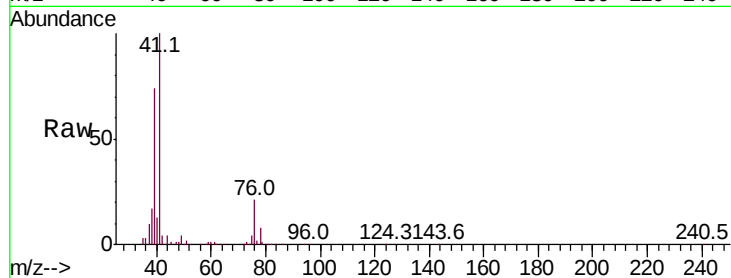
#21
Allvl Chloride
Concen: 2.047 ppbv
RT: 4.43 min Scan# 463
Delta R.T. -0.01 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
41	100	197287		
76	25.8		21.6	32.4
39	80.8		65.0	97.4

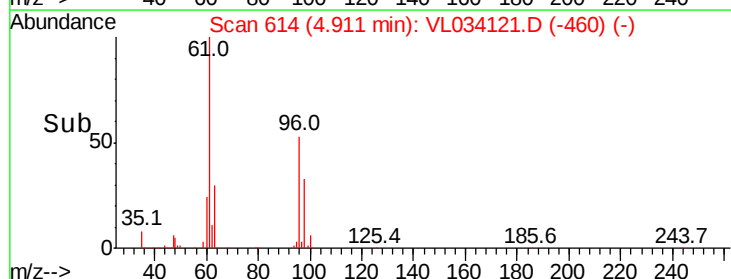
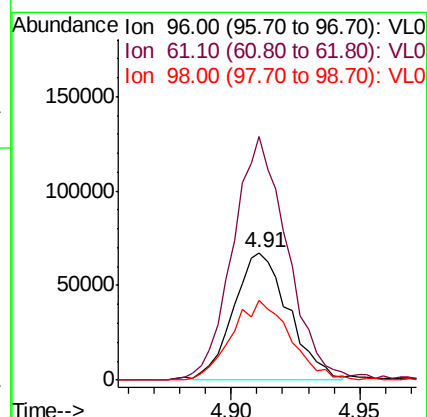
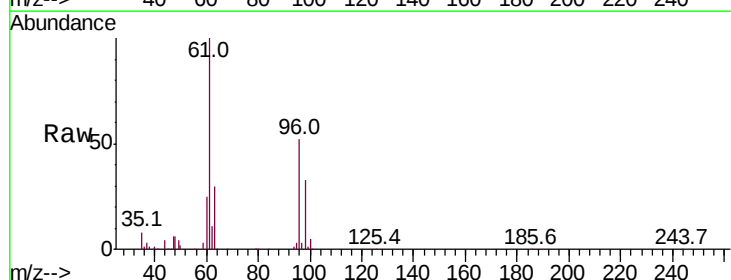
Manual Integrations
APPROVED

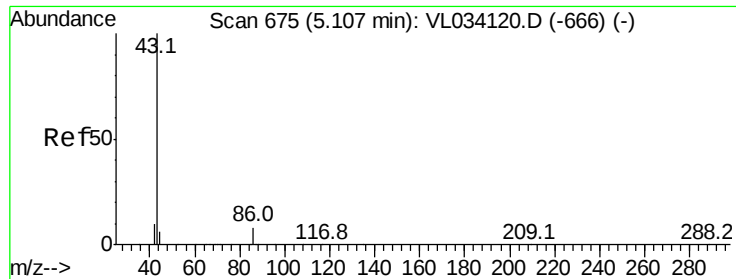
MMDadoda
9/12/2019 5:14:54 AM



#22
trans-1,2-Dichloroethene
Concen: 1.991 ppbv
RT: 4.91 min Scan# 614
Delta R.T. -0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	99383		
61	189.1		143.1	214.7
98	62.3		49.0	73.4





#23

Vinyl Acetate

Concen: 2.133 ppbv

RT: 5.10 min Scan# 673

Delta R.T. -0.01 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

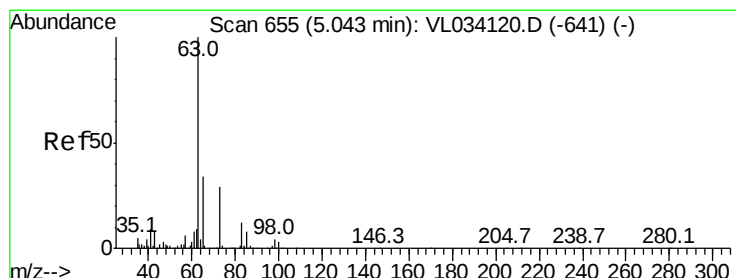
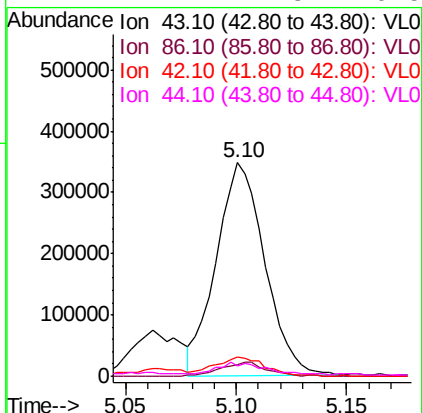
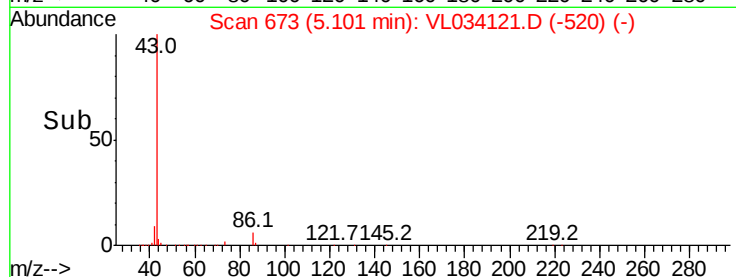
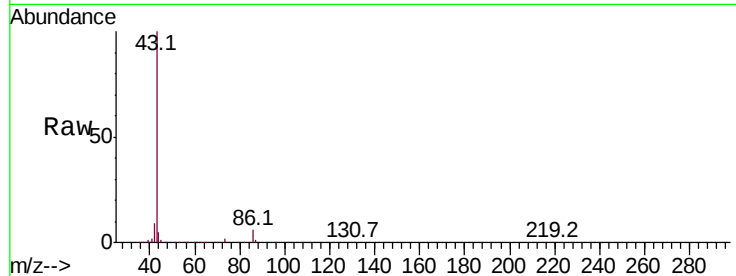
ClientSampled :

VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		529029		
86	5.7	5.5	8.3		
42	9.0	8.2	12.4		
44	4.1	4.3	6.5		

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:14:54 AM



#24

1,1-Dichloroethane

Concen: 2.101 ppbv

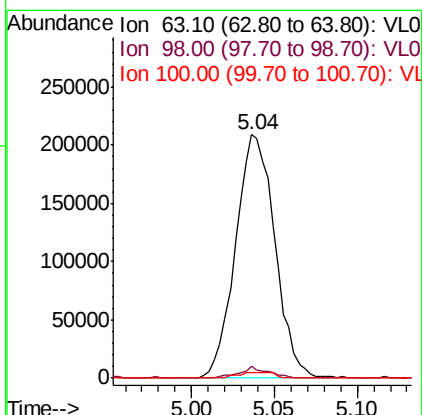
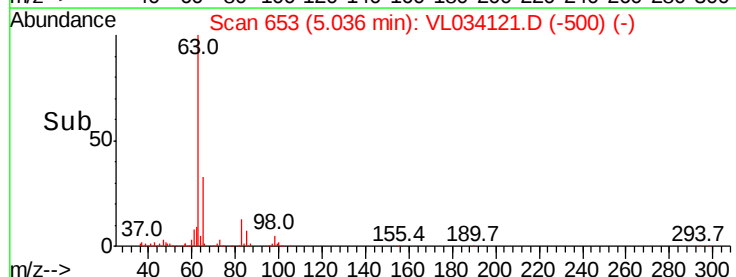
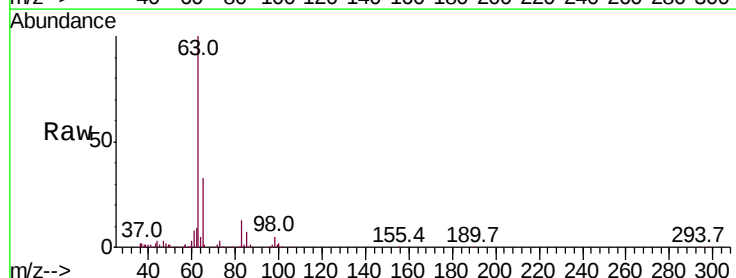
RT: 5.04 min Scan# 653

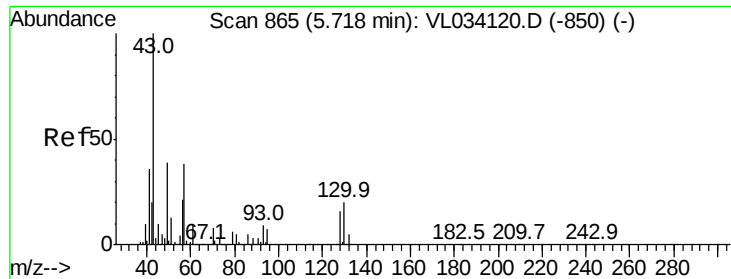
Delta R.T. -0.01 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100		345826		
98	4.9	2.1	6.2		
100	2.4	1.4	4.0		





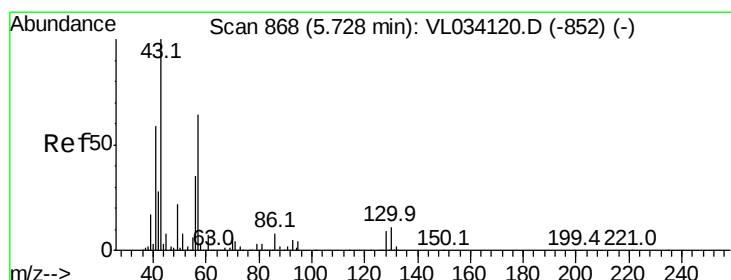
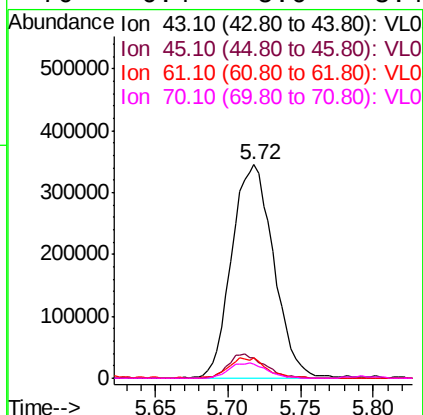
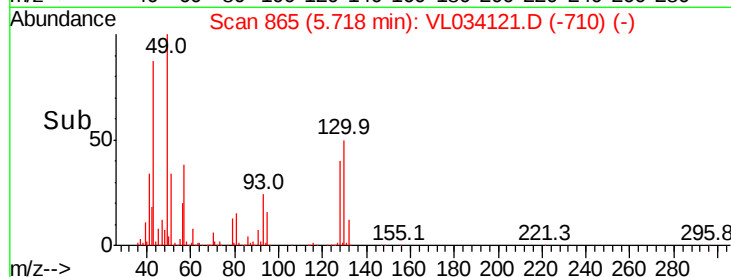
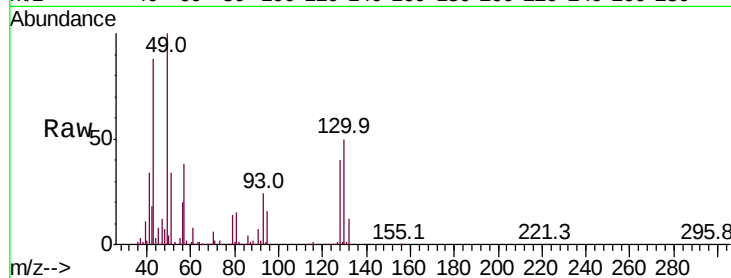
#25
Ethyl Acetate
Concen: 2.154 ppbv
RT: 5.72 min Scan# 865
Delta R.T. -0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Instrument :
MSVOA_L
ClientSampled :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.2	12.4
61	8.9	7.4	11.2
70	6.4	5.6	8.4

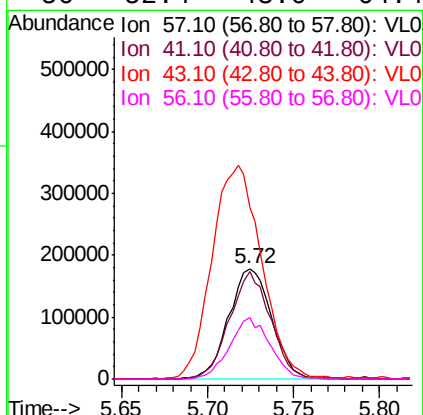
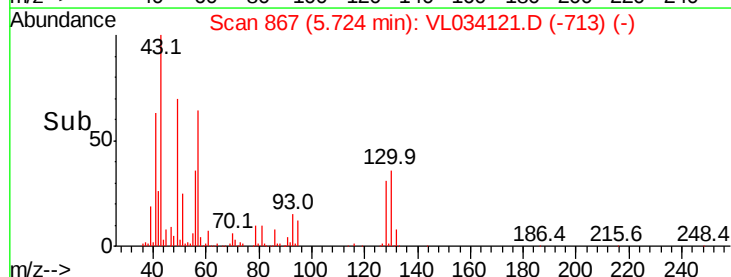
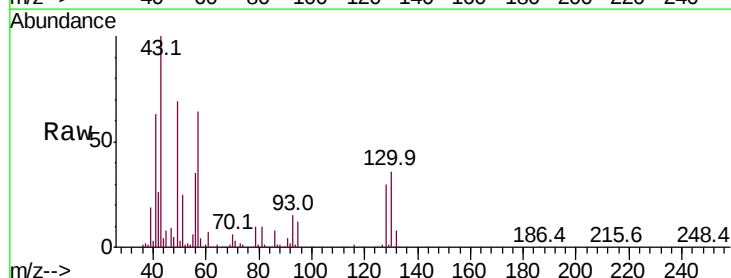
Manual Integrations
APPROVED

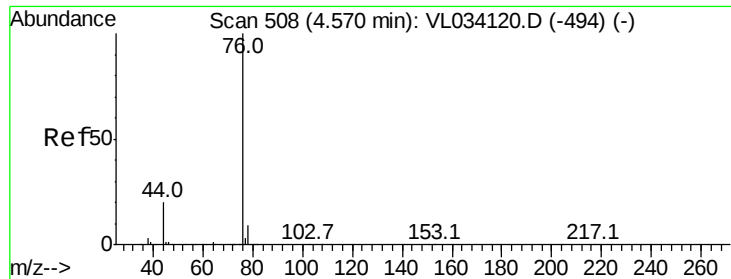
MMDadoda
9/12/2019 5:14:54 AM



#26
Hexane
Concen: 2.159 ppbv
RT: 5.72 min Scan# 867
Delta R.T. -0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Tgt Ion	Ratio	Lower	Upper
57	100		
41	93.8	76.6	115.0
43	227.9	189.2	283.8
56	52.4	43.0	64.4





#27

Carbon Disulfide

Concen: 2.044 ppbv

RT: 4.57 min Scan# 509

Delta R.T. 0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

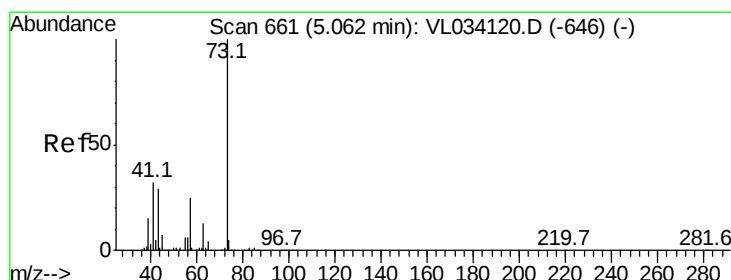
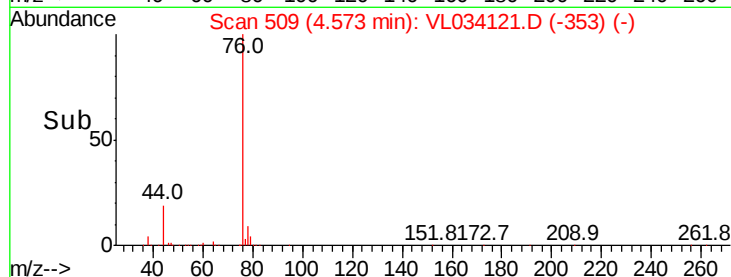
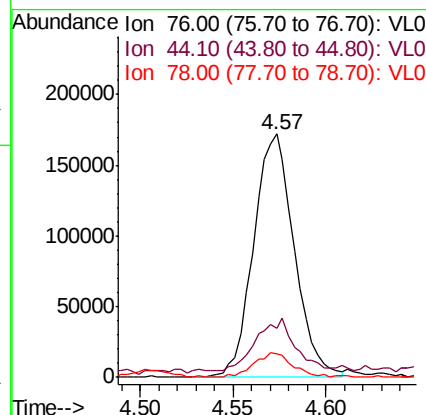
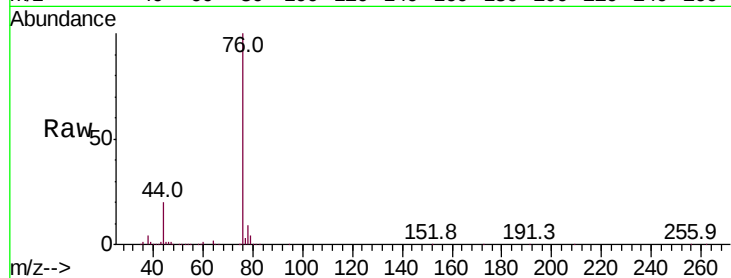
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	262626
Ion Ratio	Lower	Upper	
76	100		
44	27.5	17.6	26.4#
78	10.0	7.3	10.9

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:14:54 AM



#28

Methyl tert-Butyl Ether

Concen: 2.154 ppbv

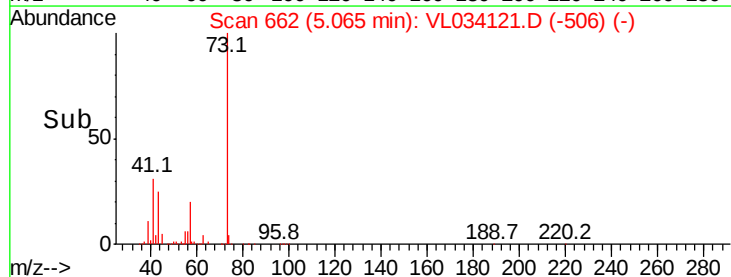
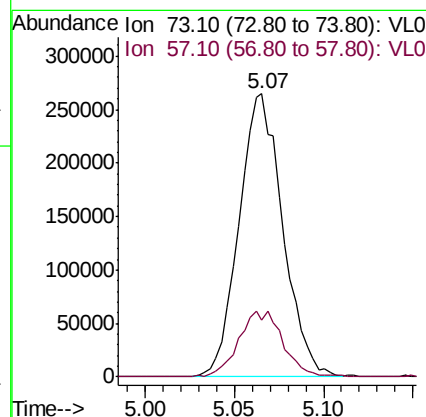
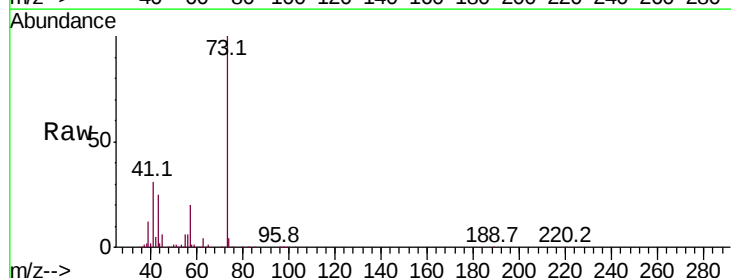
RT: 5.07 min Scan# 662

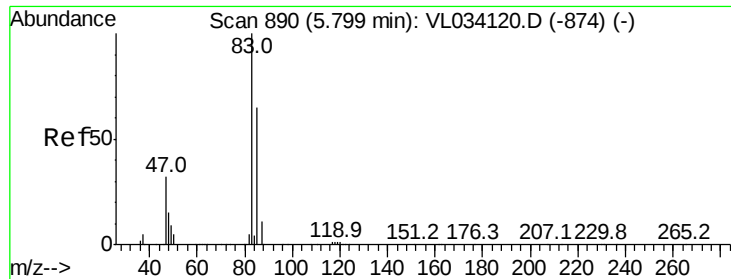
Delta R.T. 0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Tgt Ion:	73	Resp:	450395
Ion Ratio	Lower	Upper	
73	100		
57	23.7	19.8	29.8





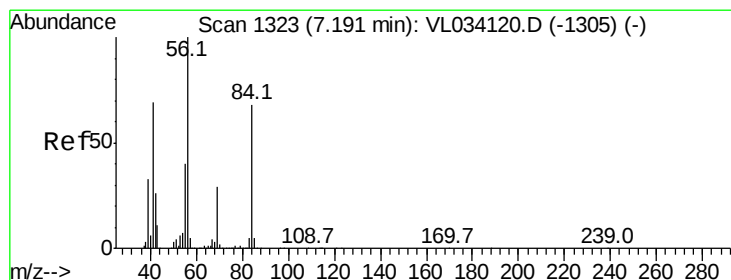
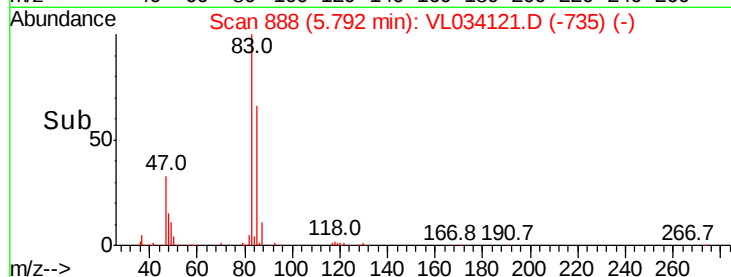
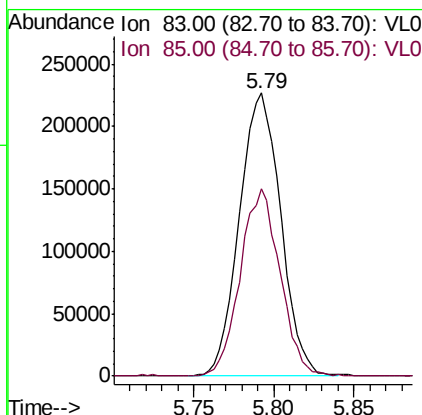
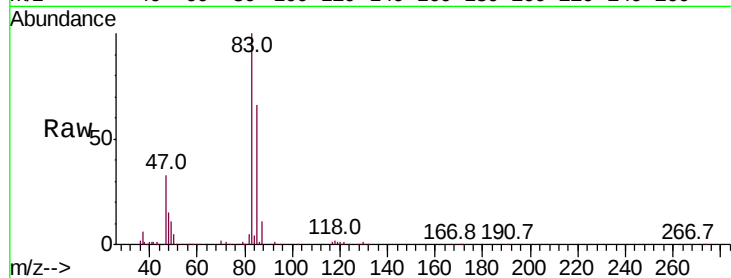
#29
Chloroform
Concen: 2.079 ppbv
RT: 5.79 min Scan# 888
Delta R.T. -0.01 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	400108
Ion Ratio	100	Lower	Upper
85	66.3	51.8	77.6

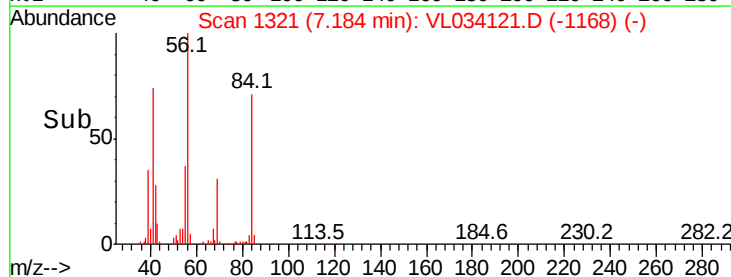
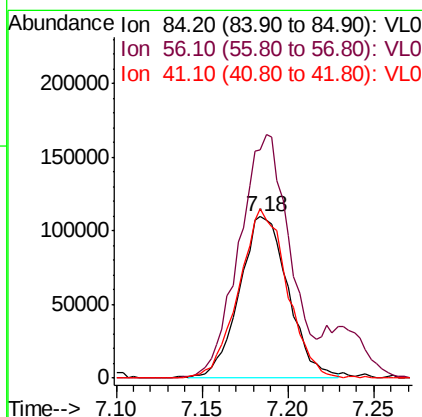
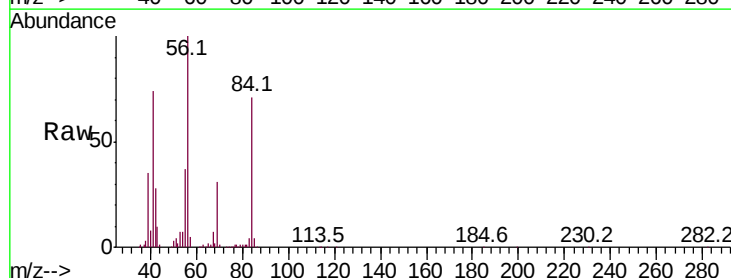
Manual Integrations
APPROVED

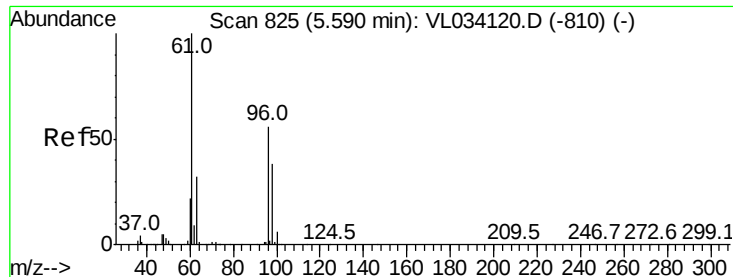
MMDadoda
9/12/2019 5:14:54 AM



#30
Cyclohexane
Concen: 2.070 ppbv
RT: 7.18 min Scan# 1321
Delta R.T. -0.01 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Tgt Ion	84	Resp	213526
Ion Ratio	100	Lower	Upper
56	186.2	122.6	183.8#
41	105.3	79.1	118.7





#31

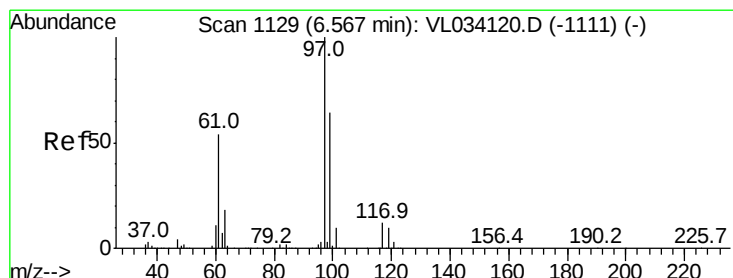
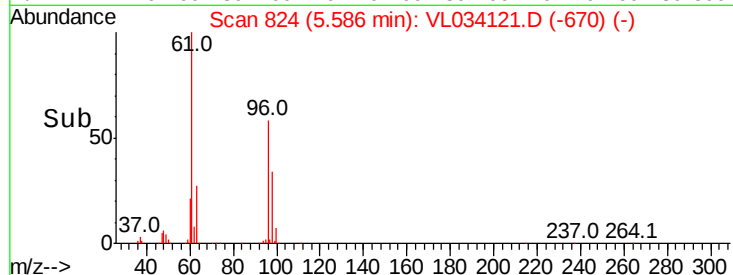
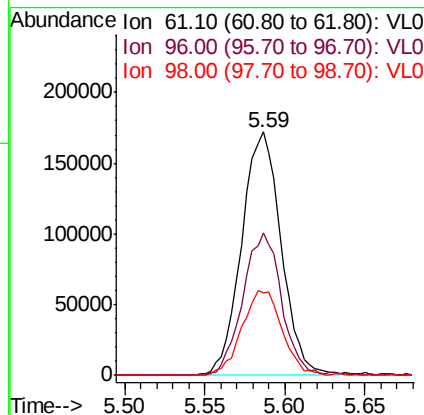
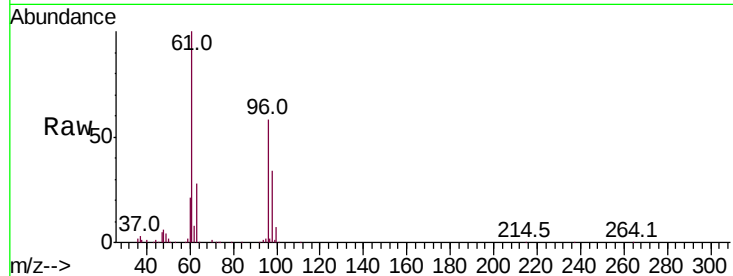
cis-1,2-Dichloroethene
 Concen: 2.123 ppbv
 RT: 5.59 min Scan# 824
 Delta R.T. -0.00 min
 Lab File: VL034121.D
 Acq: 5 Sep 2019 3:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
61	100	290143		
96	58.3		44.4	66.6
98	33.7		30.0	45.0

Manual Integrations
 APPROVED

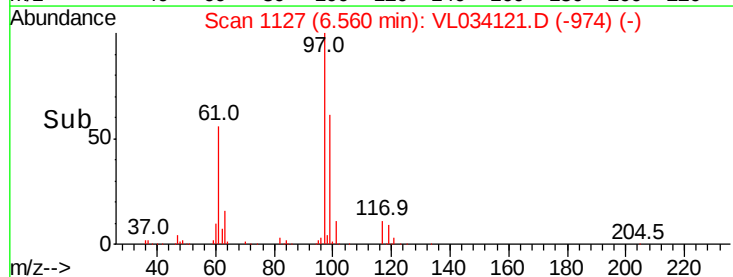
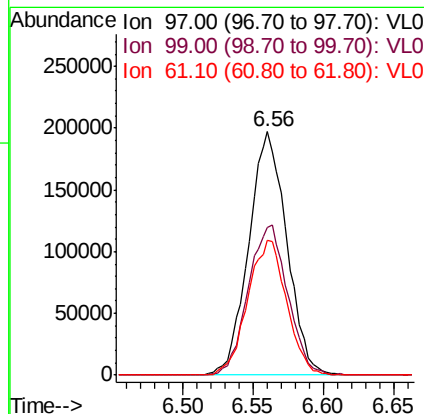
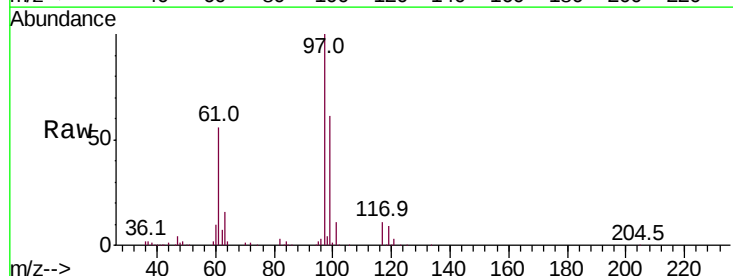
MMDadoda
 9/12/2019 5:14:54 AM

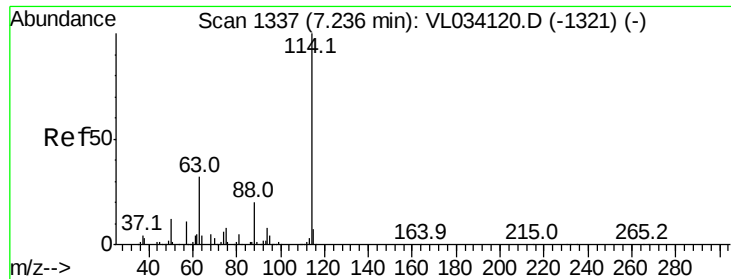


#32

1,1,1-Trichloroethane
 Concen: 2.063 ppbv
 RT: 6.56 min Scan# 1127
 Delta R.T. -0.01 min
 Lab File: VL034121.D
 Acq: 5 Sep 2019 3:09

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	372961		
99	63.8		51.7	77.5
61	56.5		44.0	66.0





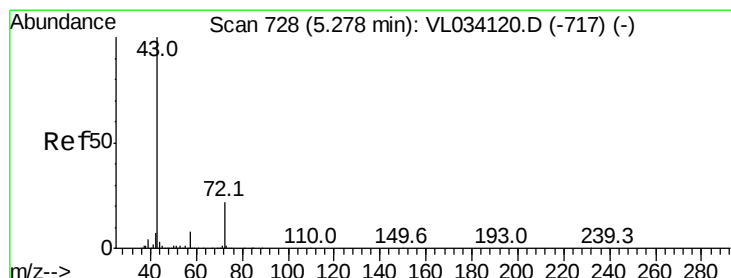
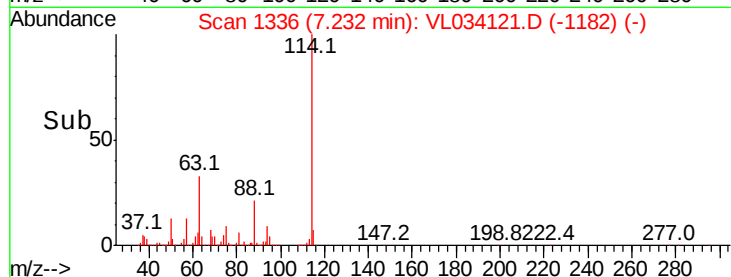
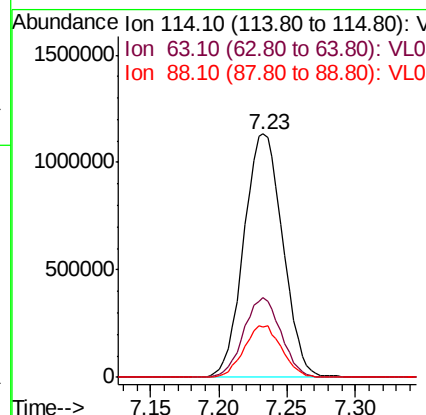
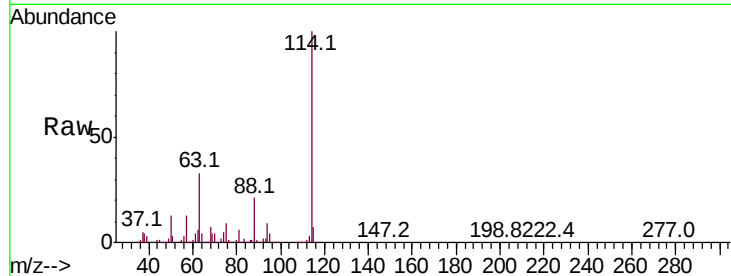
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VL034121.D
 Acq: 5 Sep 2019 3:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
114	100		
63	31.5	25.5	38.3
88	20.6	16.8	25.2

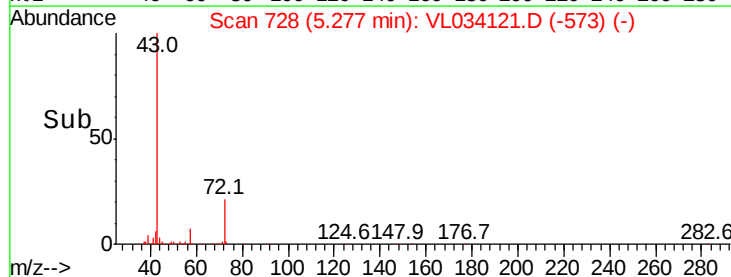
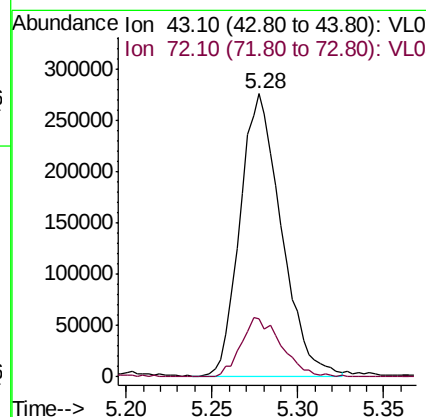
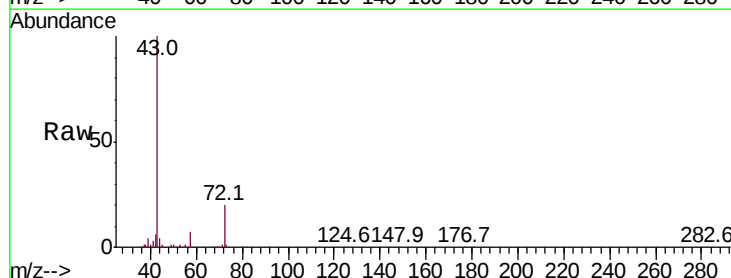
Manual Integrations
 APPROVED

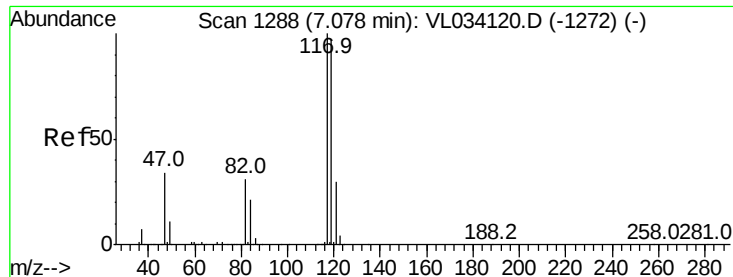
MMDadoda
 9/12/2019 5:14:54 AM



#34
 2-Butanone
 Concen: 2.131 ppbv
 RT: 5.28 min Scan# 728
 Delta R.T. -0.00 min
 Lab File: VL034121.D
 Acq: 5 Sep 2019 3:09

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.9	16.5	24.7





#35

Carbon Tetrachloride

Concen: 2.048 ppbv

RT: 7.08 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

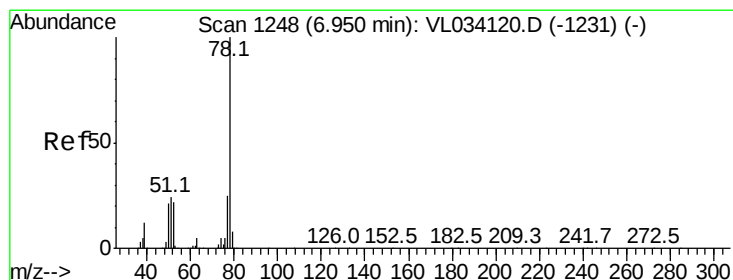
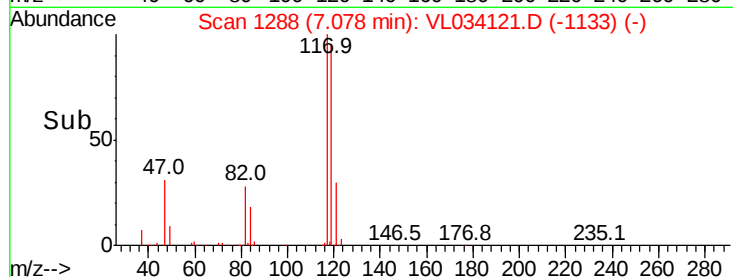
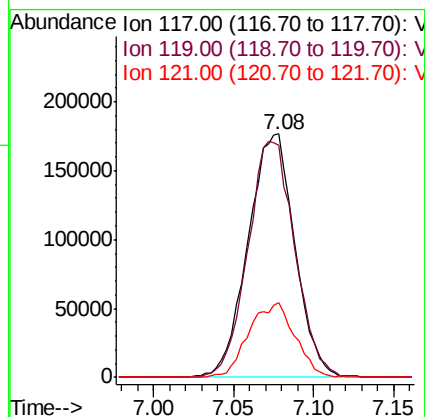
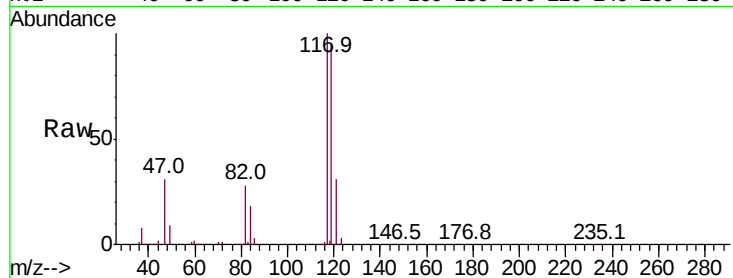
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	355123
Ion Ratio	Lower	Upper	
117	100		
119	95.0	77.2	115.8
121	30.6	24.2	36.4

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:14:54 AM



#36

Benzene

Concen: 2.157 ppbv

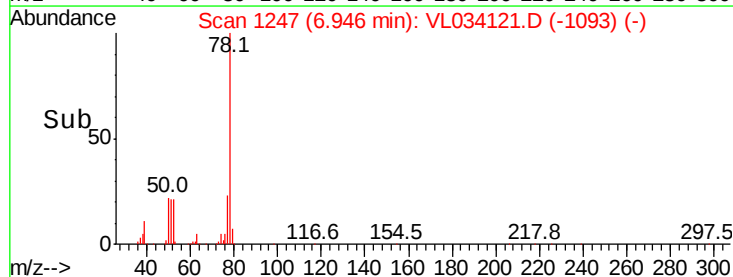
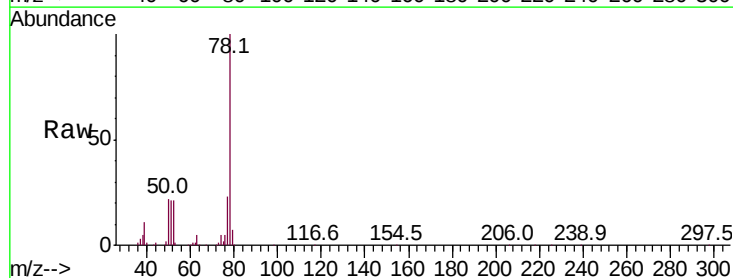
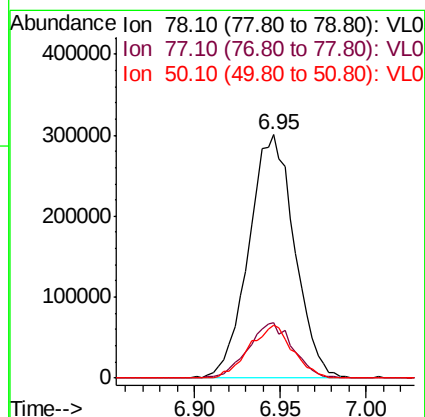
RT: 6.95 min Scan# 1247

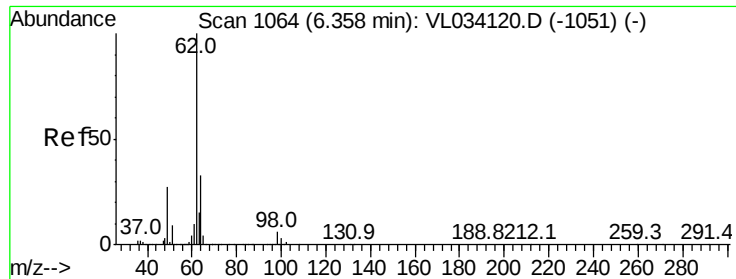
Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Tgt Ion:	78	Resp:	552944
Ion Ratio	Lower	Upper	
78	100		
77	23.0	20.3	30.5
50	21.6	16.9	25.3





#37

1,2-Dichloroethane

Concen: 2.077 ppbv

RT: 6.35 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 326202

Ion Ratio Lower Upper

62 100

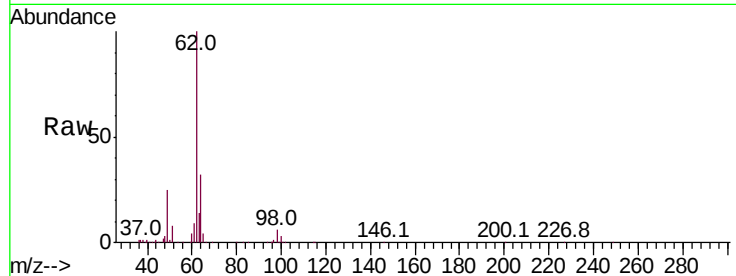
98 5.7 4.4 6.6

Manual Integrations

APPROVED

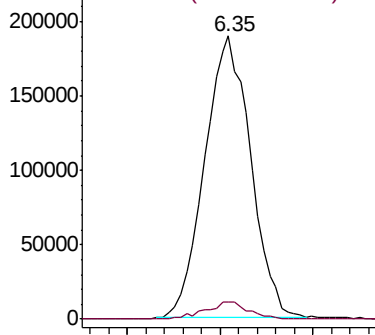
MMDadoda

9/12/2019 5:14:54 AM

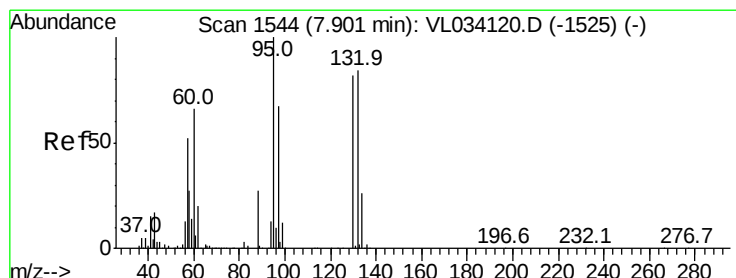
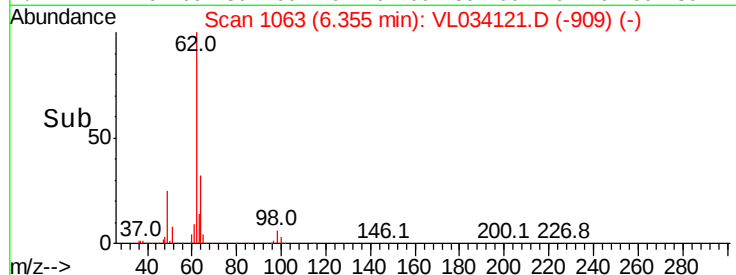


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



Time-->



#38

Trichloroethene

Concen: 1.928 ppbv m

RT: 7.90 min Scan# 1545

Delta R.T. 0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Tgt Ion: 130 Resp: 182721

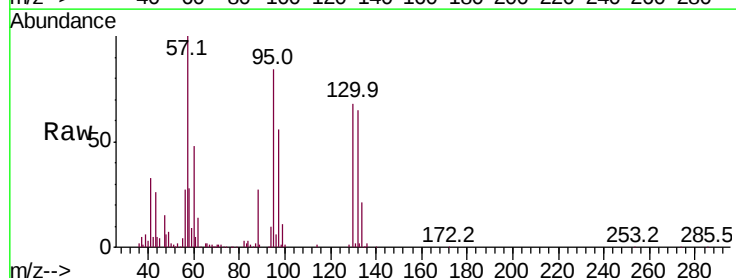
Ion Ratio Lower Upper

130 100

95 124.3 97.2 145.8

132 96.3 81.4 122.2

97 83.3 64.8 97.2

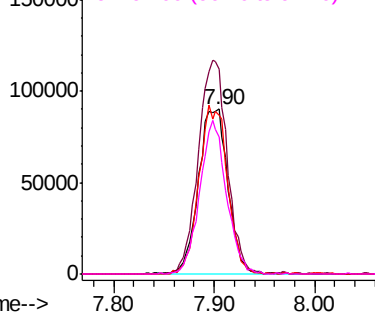


Abundance Ion 130.00 (129.70 to 130.70): V

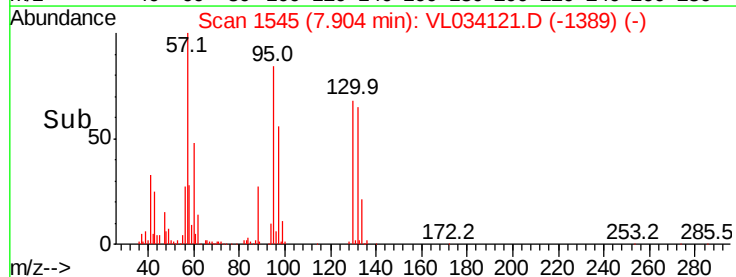
Ion 95.00 (94.70 to 95.70): VL0

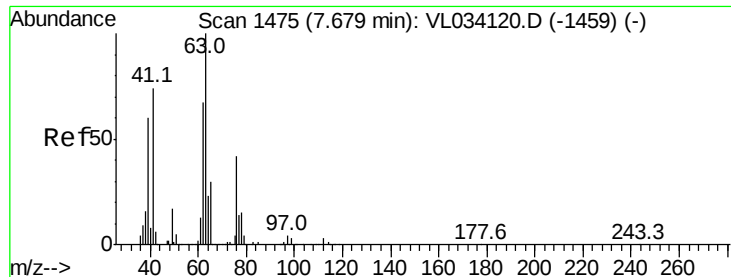
Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



Time-->





#39

1,2-Dichloropropane

Concen: 2.093 ppbv

RT: 7.68 min Scan# 1474

Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

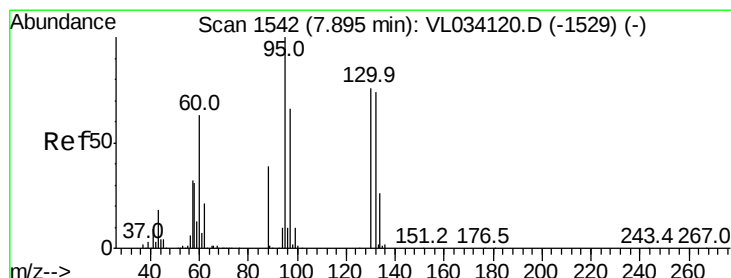
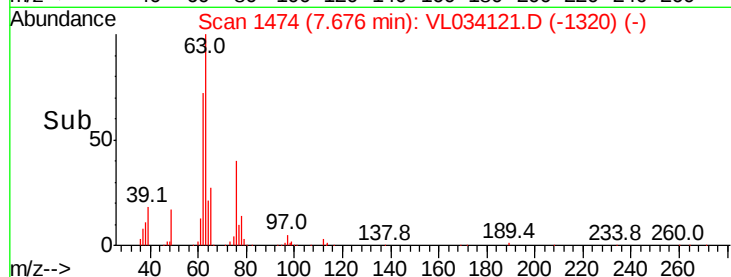
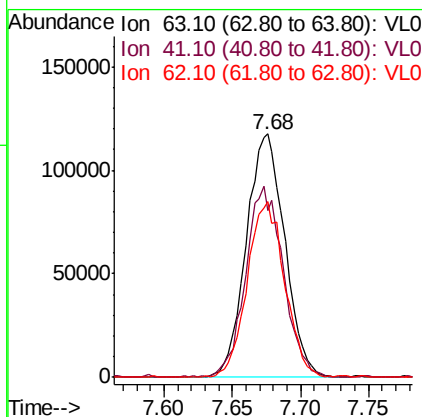
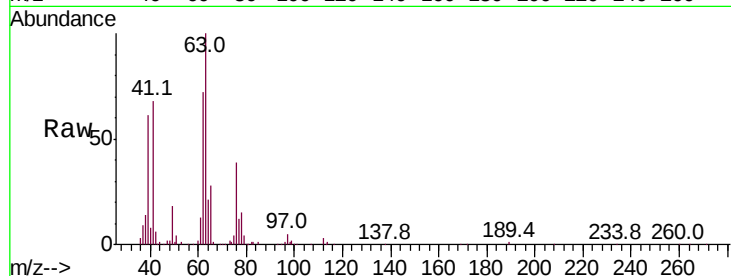
ClientSampleId :

VSTDIC002

Tot Ion:	63	Resp:	229678
Ion	Ratio	Lower	Upper
63	100		
41	68.1	59.3	88.9
62	72.0	53.8	80.6

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:14:54 AM



#40

1,4-Dioxane

Concen: 2.165 ppbv m

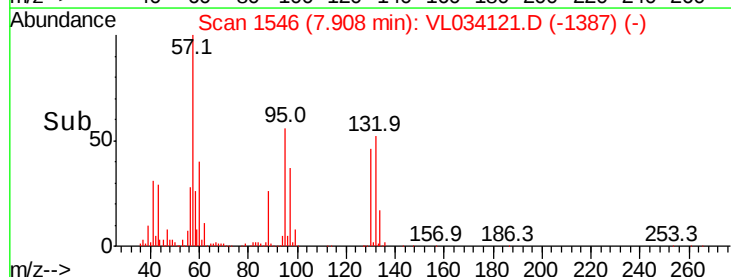
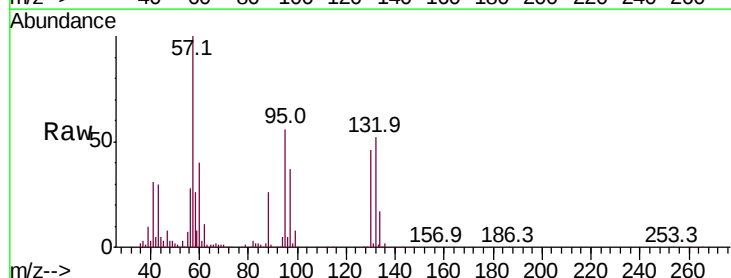
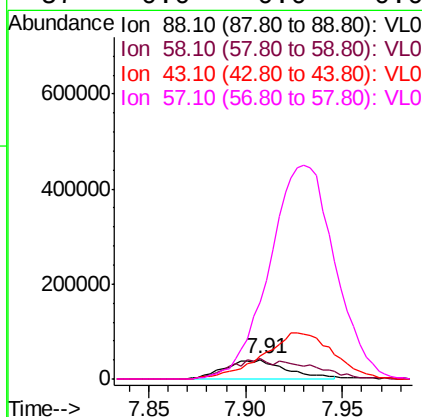
RT: 7.91 min Scan# 1546

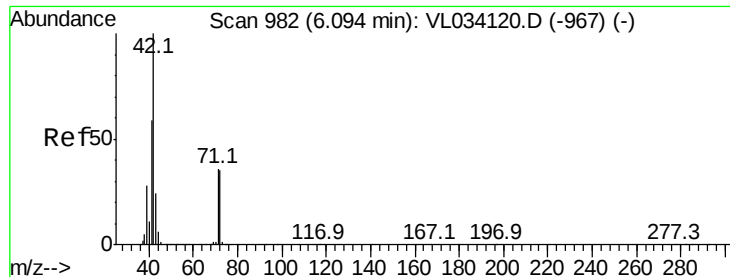
Delta R.T. 0.01 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Tgt Ion:	88	Resp:	87641
Ion	Ratio	Lower	Upper
88	100		
58	0.0	121.7	182.5#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 2.126 ppbv

RT: 6.10 min Scan# 983

Delta R.T. 0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

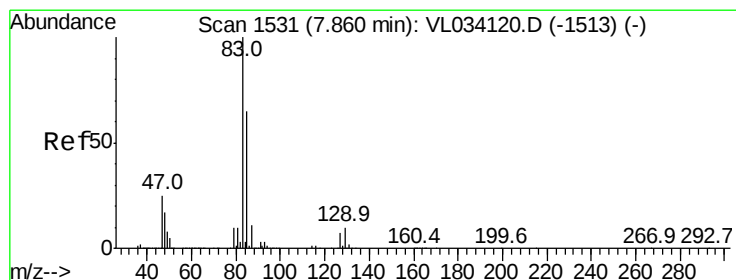
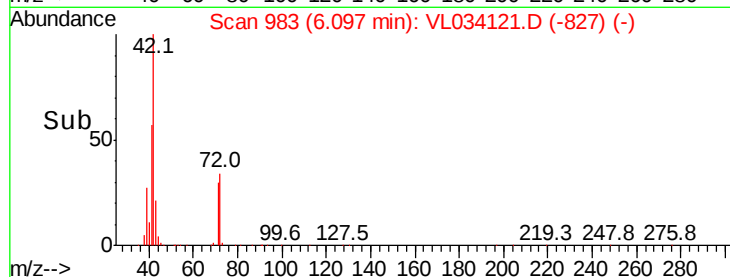
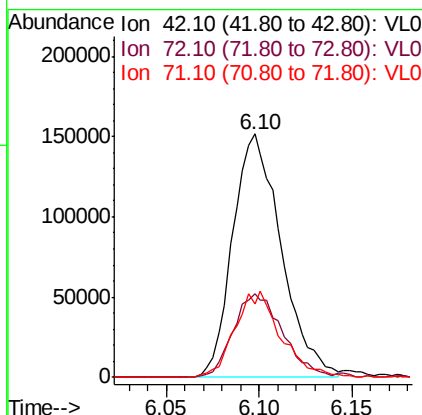
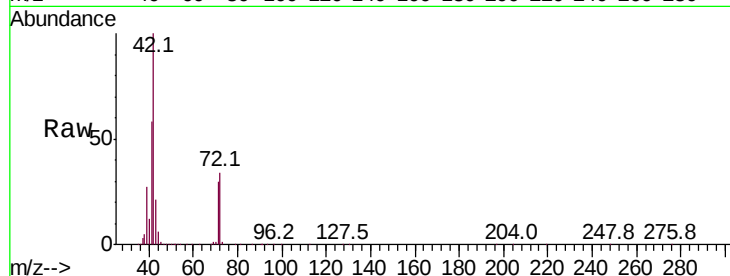
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.6	27.7	41.5
71	34.0	26.7	40.1

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:14:54 AM



#42

Bromodichloromethane

Concen: 2.142 ppbv

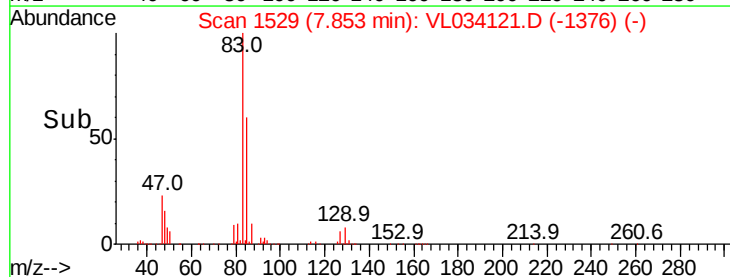
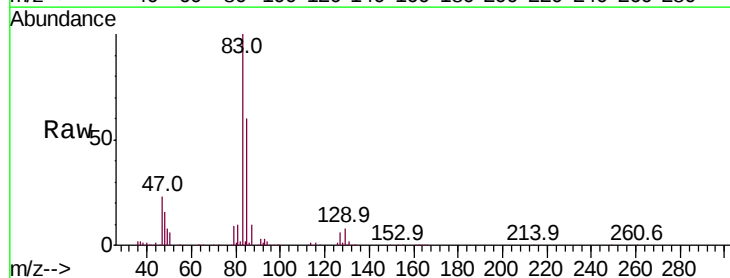
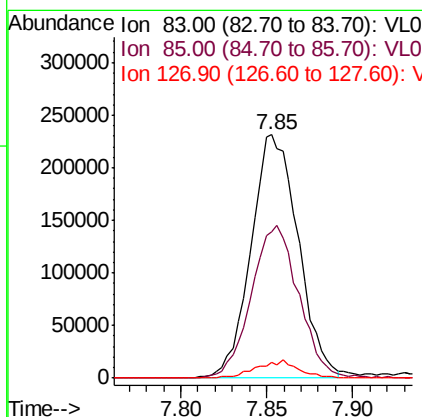
RT: 7.85 min Scan# 1529

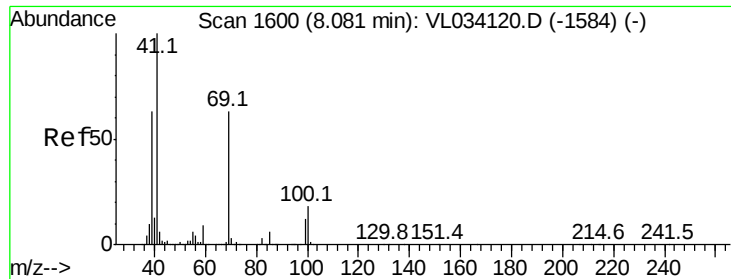
Delta R.T. -0.01 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.0	51.6	77.4
127	6.5	5.4	8.0





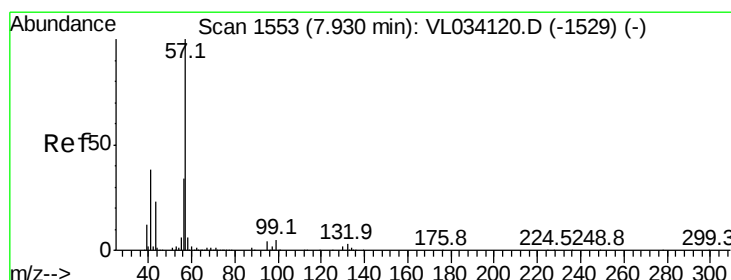
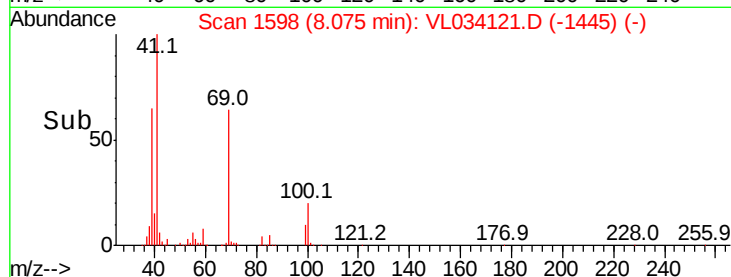
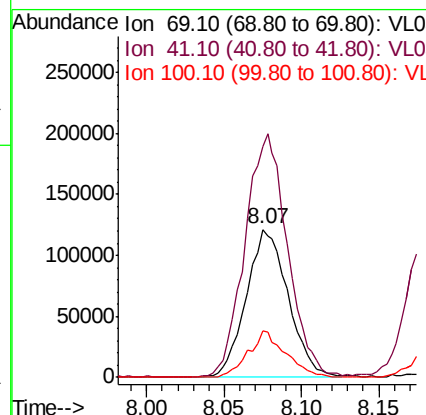
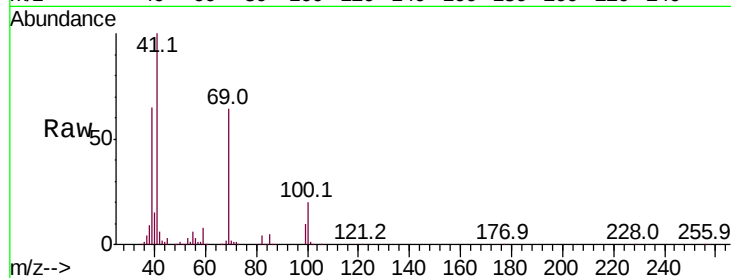
#43
Methvl Methacrylate
Concen: 2.171 ppbv
RT: 8.07 min Scan# 1598
Delta R.T. -0.01 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
69	100		
41	165.8	131.0	196.6
100	28.1	22.6	33.8

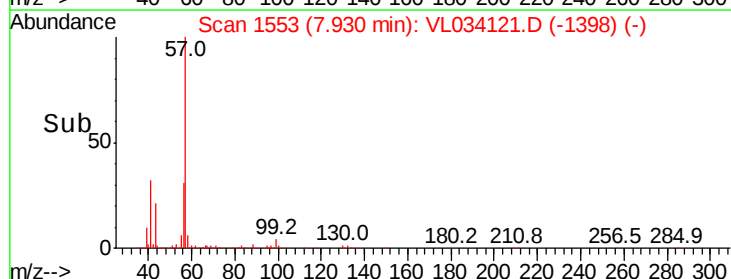
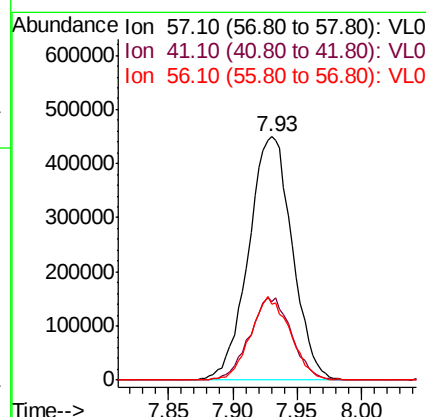
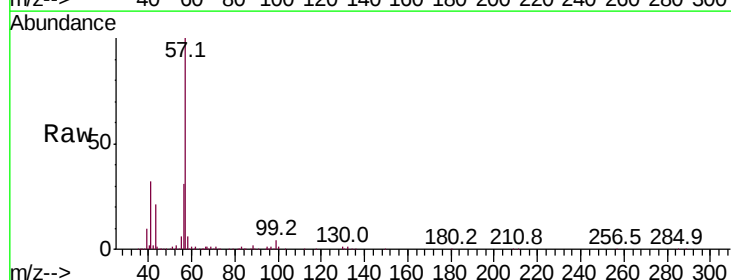
Manual Integrations
APPROVED

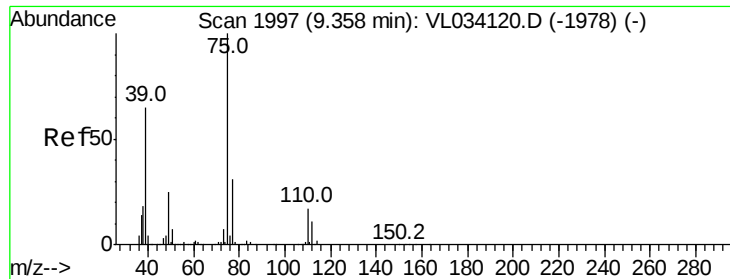
MMDadoda
9/12/2019 5:14:54 AM



#44
2,2,4-Trimethylpentane
Concen: 2.243 ppbv
RT: 7.93 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.5	28.4	42.6
56	31.3	26.3	39.5





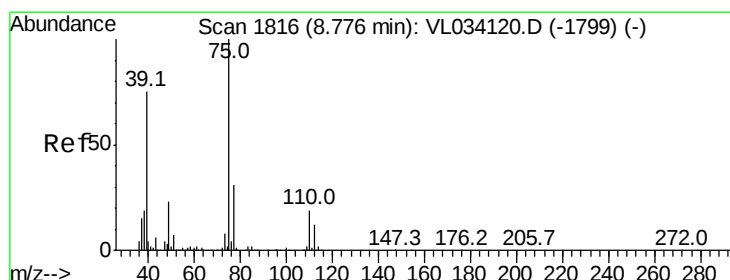
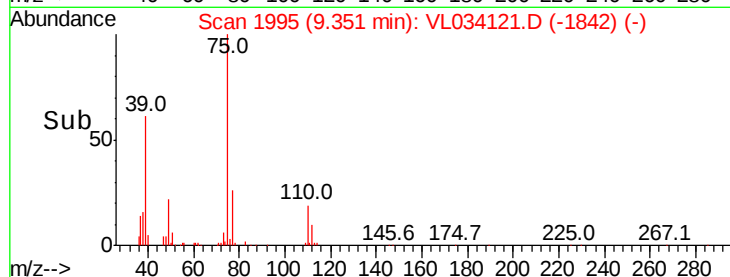
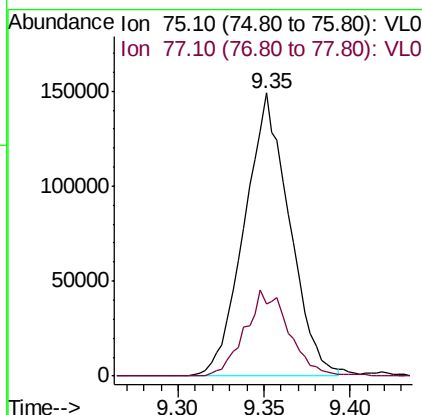
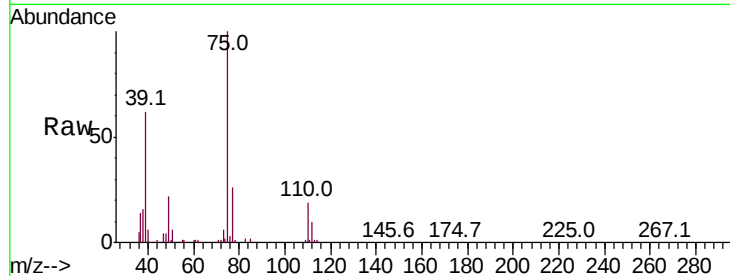
#45
 t-1,3-Dichloropropene
 Concen: 2.182 ppbv
 RT: 9.35 min Scan# 1995
 Delta R.T. -0.01 min
 Lab File: VL034121.D
 Acq: 5 Sep 2019 3:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 75 Resp: 270461
 Ion Ratio Lower Upper
 75 100
 77 25.6 24.6 36.8

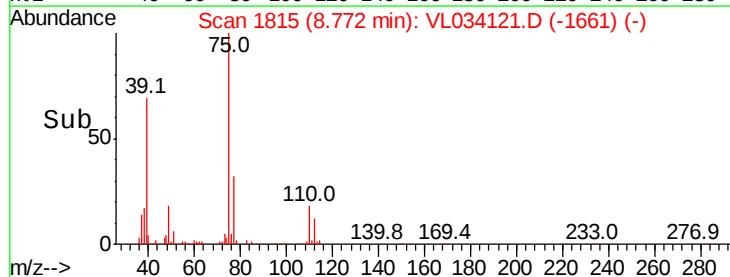
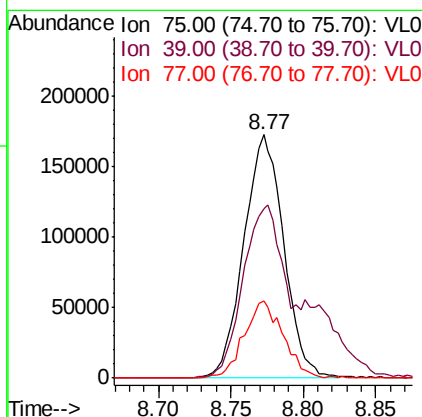
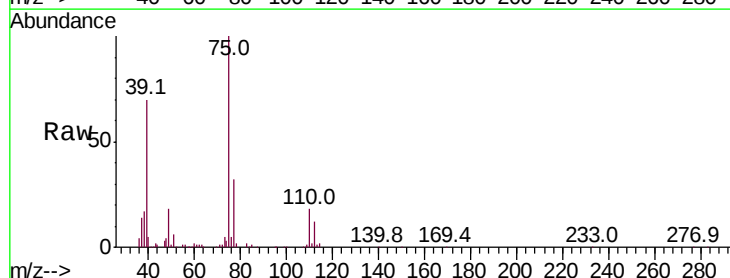
Manual Integrations
 APPROVED

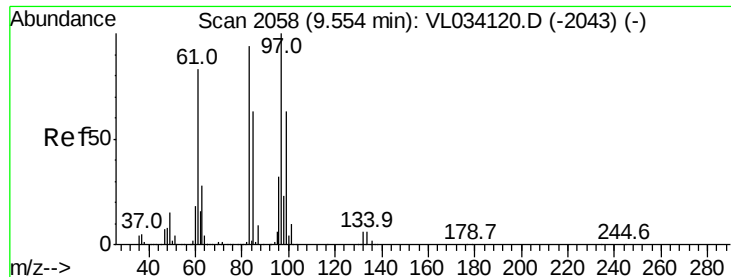
MMDadoda
 9/12/2019 5:14:54 AM



#46
 cis-1,3-Dichloropropene
 Concen: 2.191 ppbv
 RT: 8.77 min Scan# 1815
 Delta R.T. -0.00 min
 Lab File: VL034121.D
 Acq: 5 Sep 2019 3:09

Tgt Ion: 75 Resp: 330758
 Ion Ratio Lower Upper
 75 100
 39 69.7 60.0 90.0
 77 31.7 24.8 37.2





#47

1,1,2-Trichloroethane

Concen: 2.148 ppbv

RT: 9.55 min Scan# 2056

Delta R.T. -0.01 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

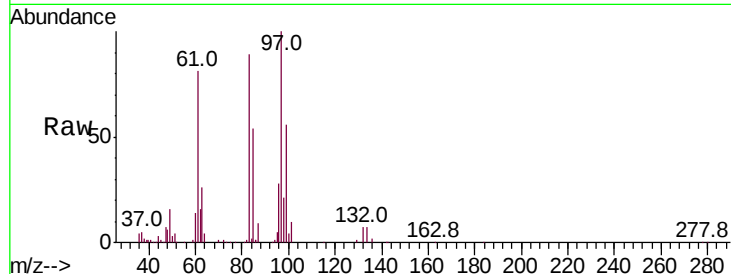
ClientSampleId :

VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		214385		
83	89.3	74.9	112.3		
85	53.6	50.6	75.8		
99	55.7	50.2	75.2		

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:14:54 AM

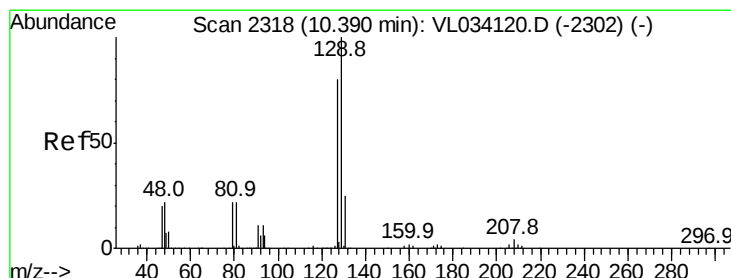
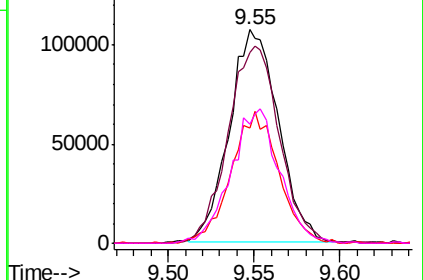
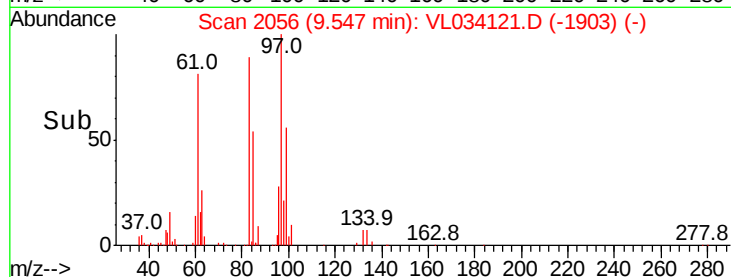


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 2.180 ppbv

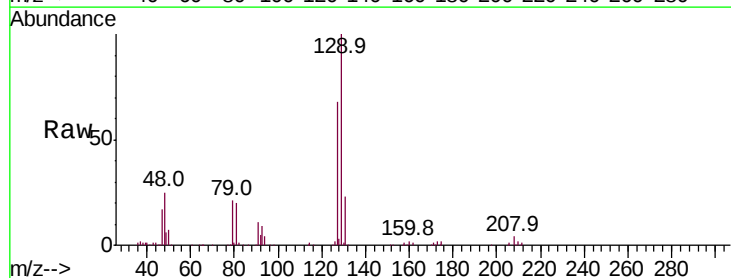
RT: 10.39 min Scan# 2318

Delta R.T. -0.00 min

Lab File: VL034121.D

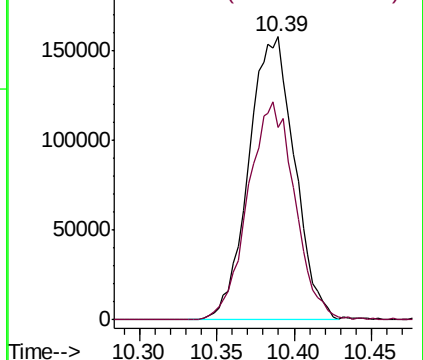
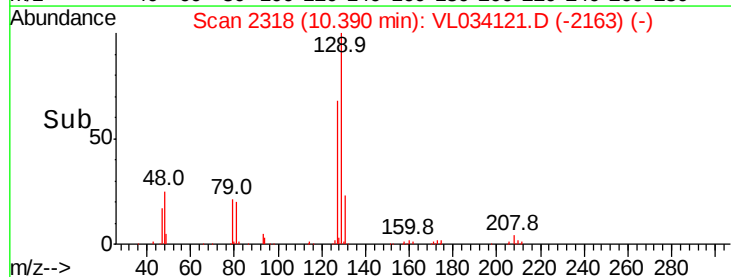
Acq: 5 Sep 2019 3:09

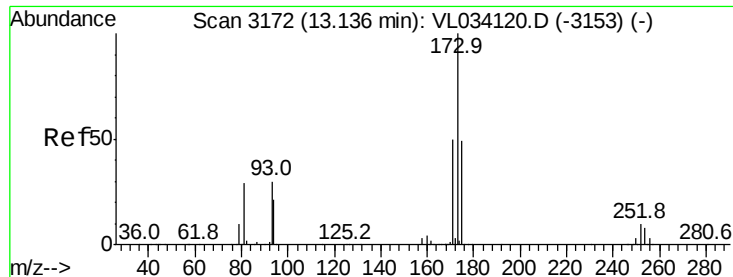
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		325051		
127	78.8	40.2	120.6		



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 2.254 ppbv

RT: 13.13 min Scan# 3170

Delta R.T. -0.01 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

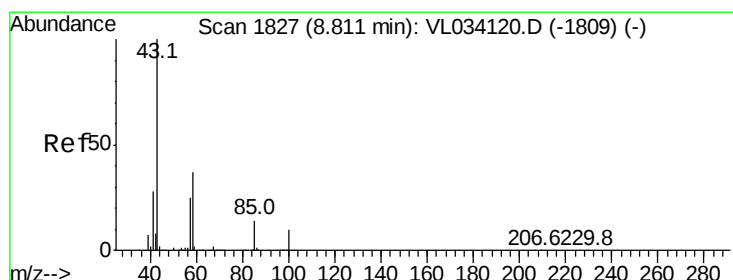
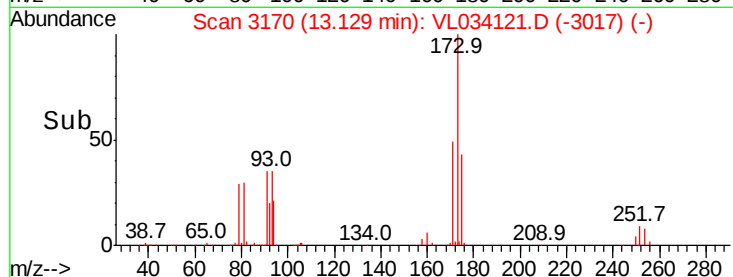
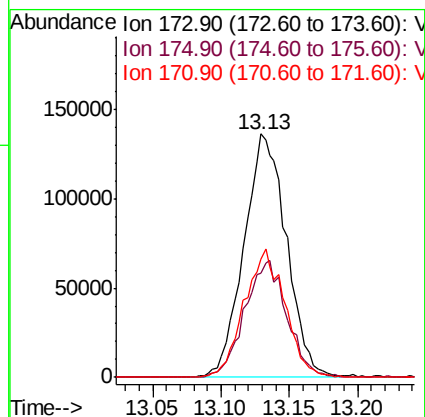
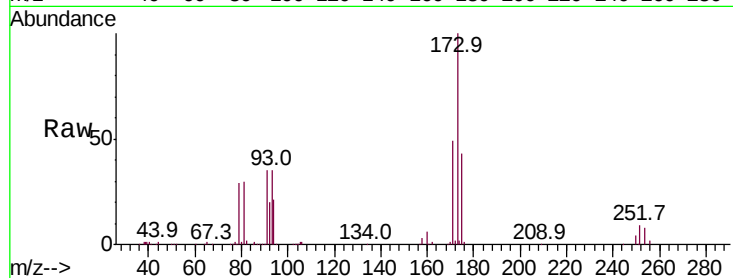
ClientSampleId :

VSTDIC002

Tot Ion:	173	Resp:	294276
Ion Ratio	Lower	Upper	
173	100		
175	47.6	40.0	60.0
171	50.7	42.2	63.2

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:14:54 AM



#50

4-Methyl-2-Pentanone

Concen: 2.198 ppbv

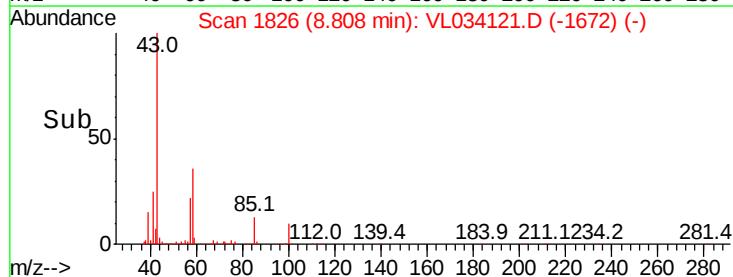
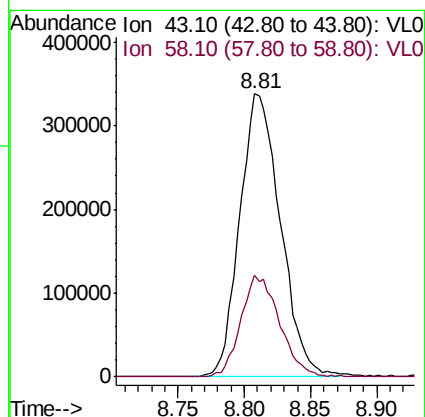
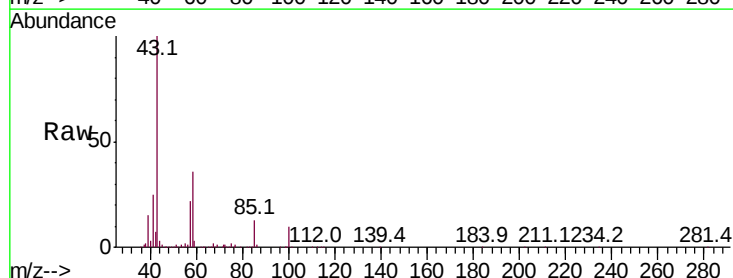
RT: 8.81 min Scan# 1826

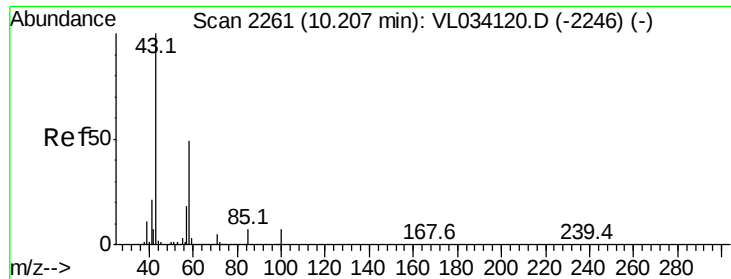
Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Tgt Ion:	43	Resp:	723042
Ion Ratio	Lower	Upper	
43	100		
58	34.3	28.5	42.7





#51

2-Hexanone

Concen: 2.274 ppbv

RT: 10.21 min Scan# 2263

Delta R.T. 0.01 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

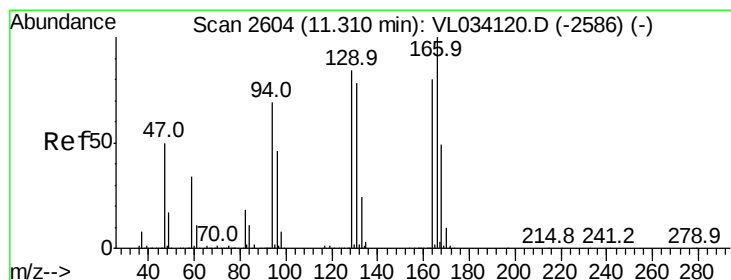
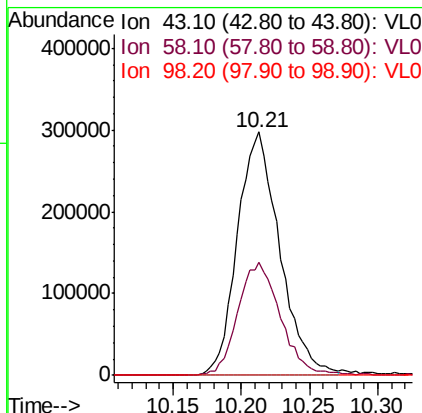
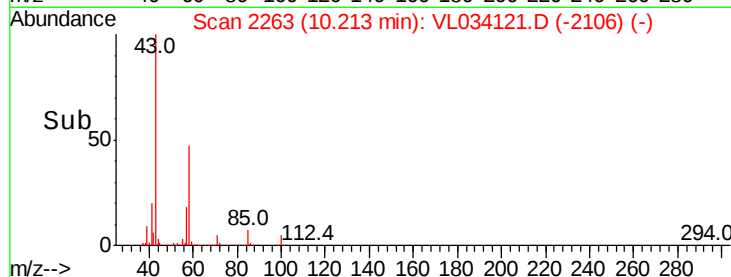
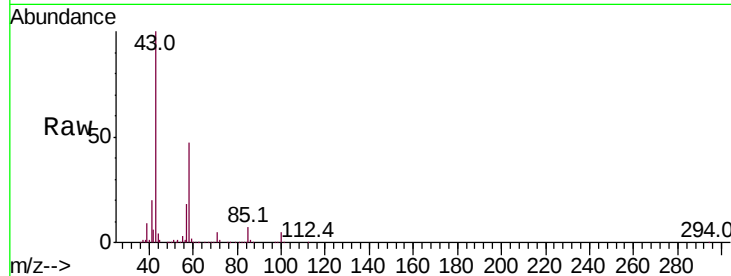
ClientSampleId :

VSTDIC002

Tot Ion:	43	Resp:	640137
Ion Ratio	Lower	Upper	
43	100		
58	47.0	38.2	57.2
98	0.2	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:14:54 AM



#52

Tetrachloroethene

Concen: 2.032 ppbv

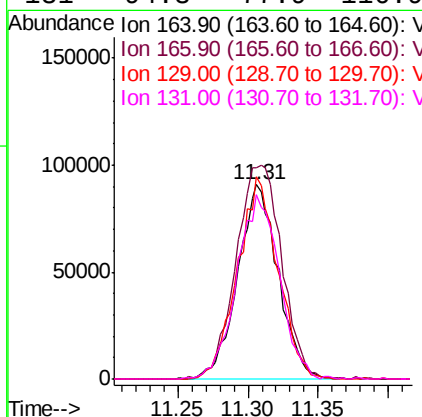
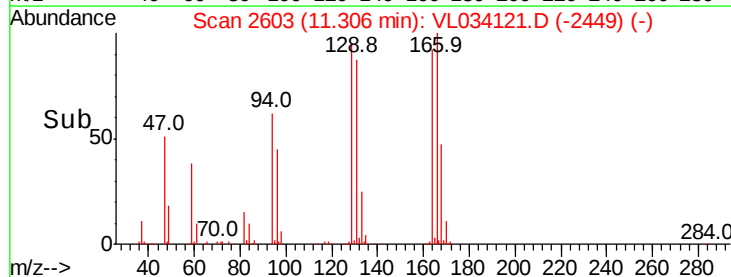
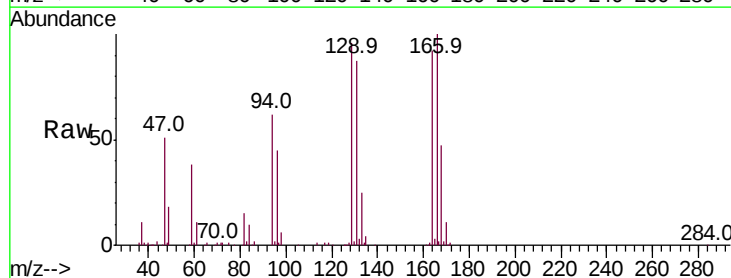
RT: 11.31 min Scan# 2603

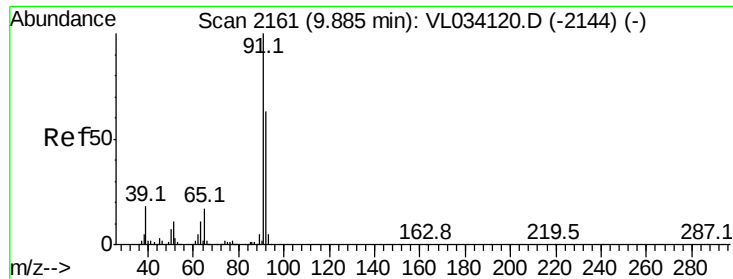
Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Tgt Ion:	164	Resp:	182283
Ion Ratio	Lower	Upper	
164	100		
166	108.3	99.5	149.3
129	103.6	83.6	125.4
131	94.3	77.9	116.9





#53

Toluene

Concen: 2.167 ppbv

RT: 9.88 min Scan# 2160

Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 614285

Ion Ratio Lower Upper

91 100

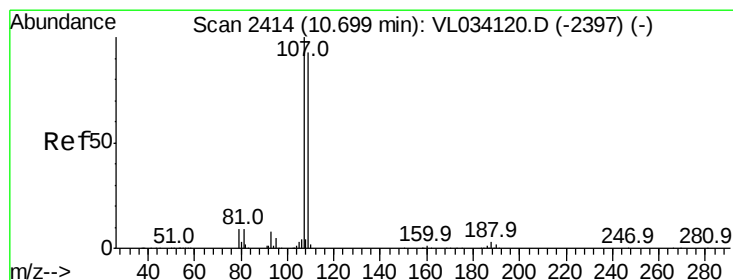
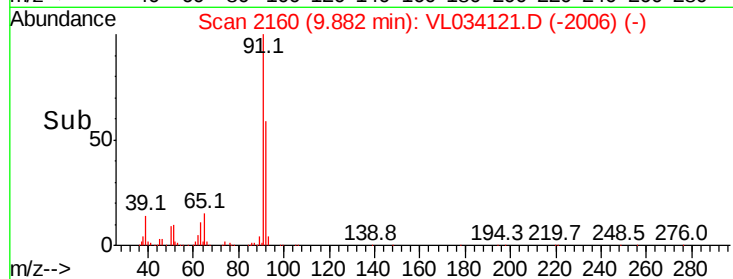
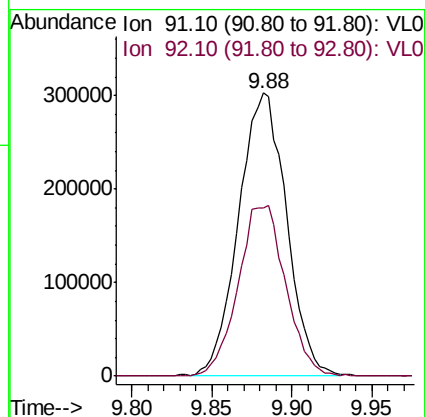
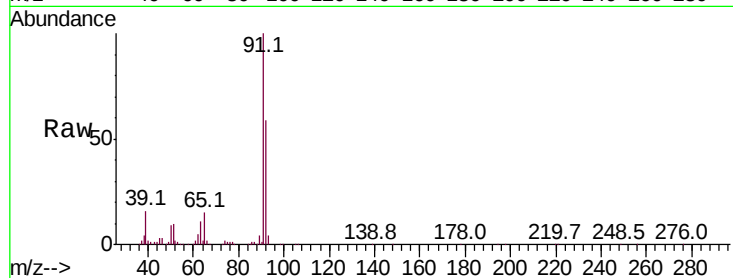
92 60.3 49.3 73.9

Manual Integrations

APPROVED

MMDadoda

9/12/2019 5:14:54 AM



#54

1,2-Dibromoethane

Concen: 2.180 ppbv

RT: 10.70 min Scan# 2413

Delta R.T. -0.00 min

Lab File: VL034121.D

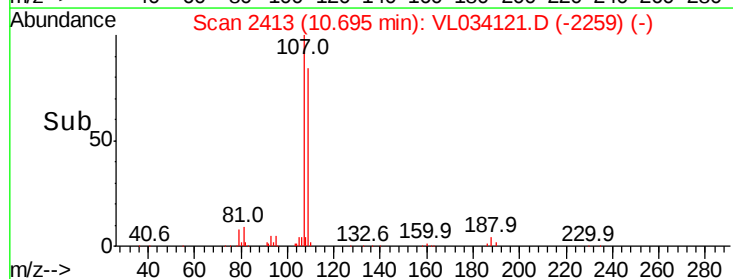
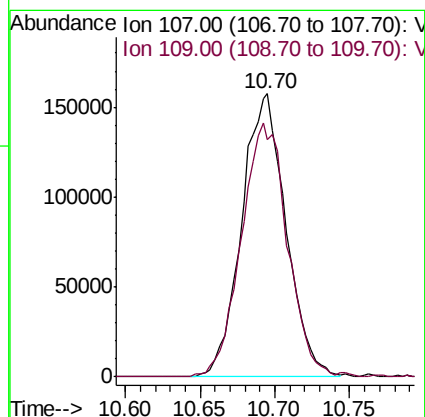
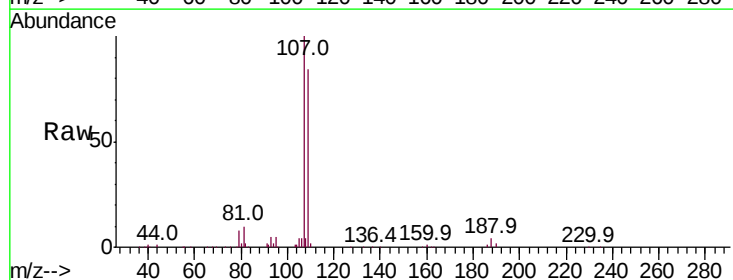
Acq: 5 Sep 2019 3:09

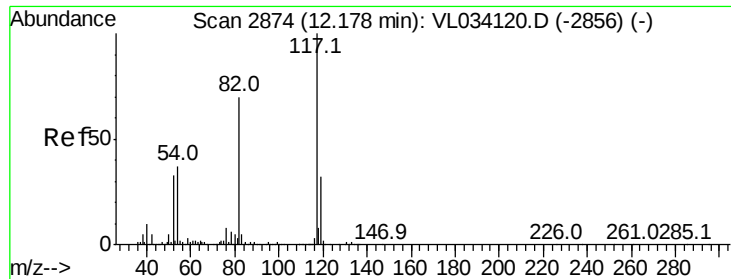
Tgt Ion: 107 Resp: 323689

Ion Ratio Lower Upper

107 100

109 83.6 74.5 111.7





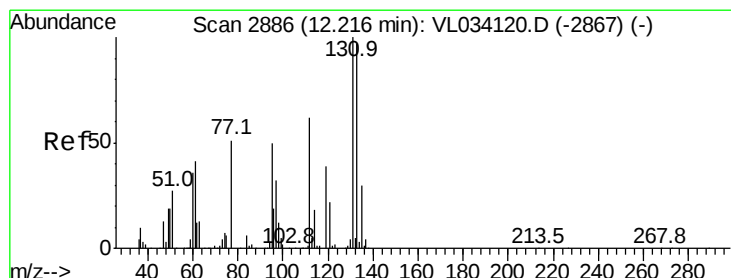
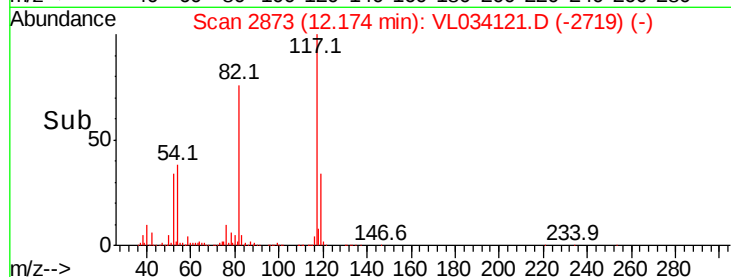
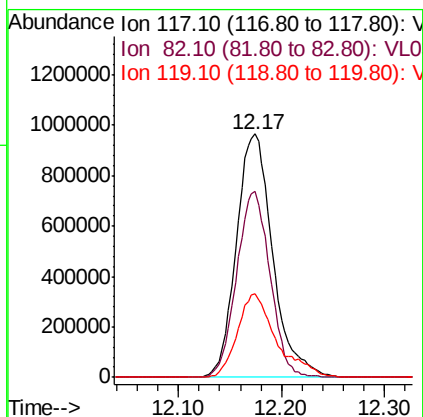
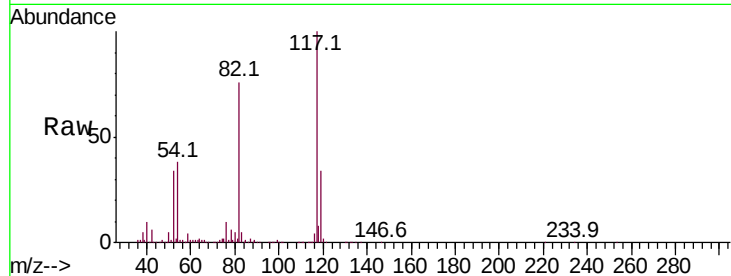
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2873
Delta R.T. -0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.4	55.8	83.6
119	36.9	43.1	64.7#

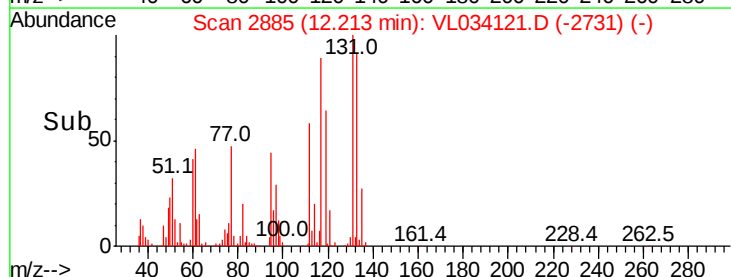
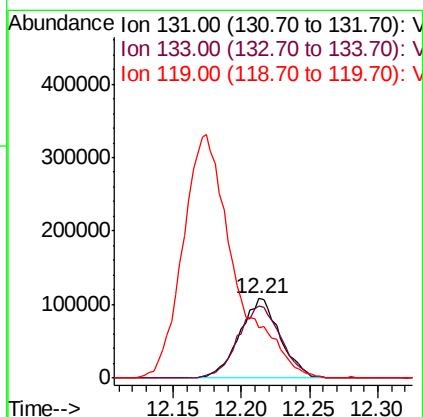
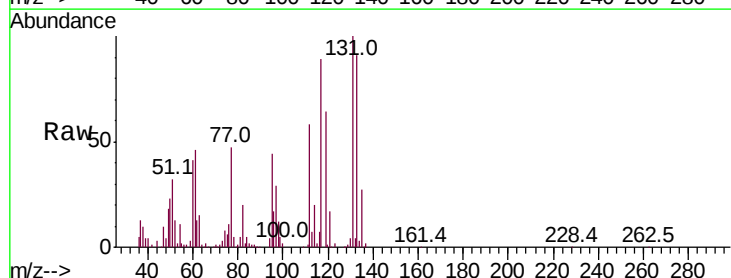
Manual Integrations
APPROVED

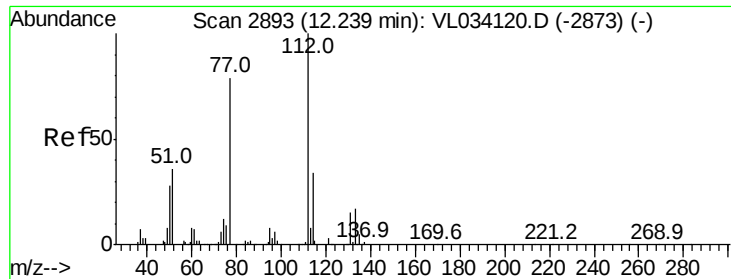
MMDadoda
9/12/2019 5:14:54 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 2.209 ppbv
RT: 12.21 min Scan# 2885
Delta R.T. -0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.9	75.8	113.6
119	389.5	114.7	172.1#





#57

Chlorobenzene

Concen: 2.189 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

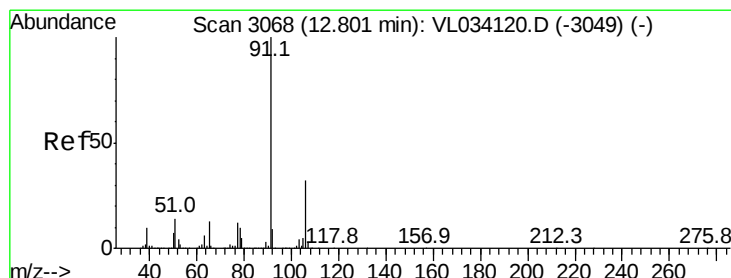
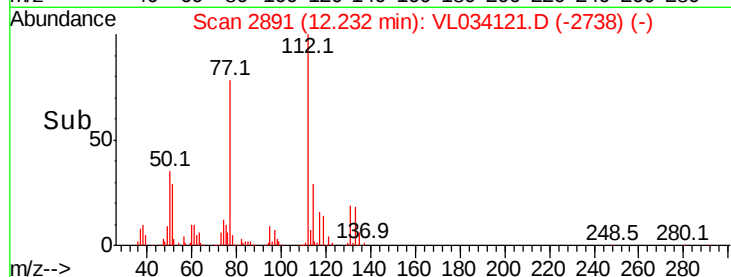
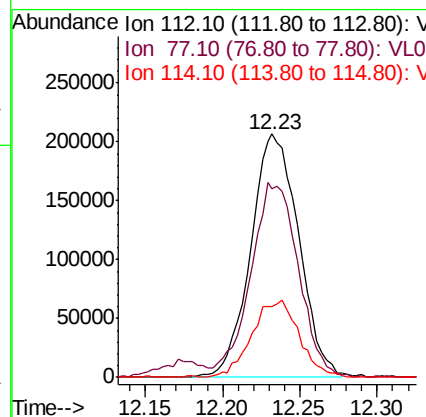
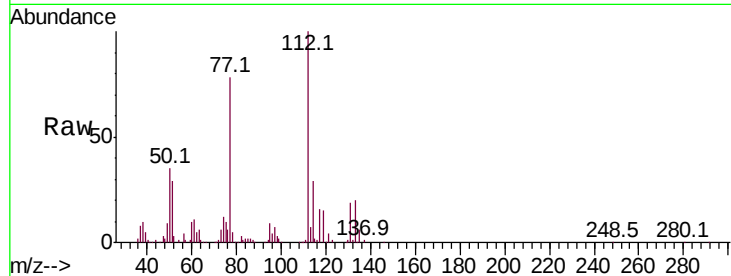
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
112	100		
77	76.8	64.4	96.6
114	29.0	30.3	37.1#

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:14:54 AM



#58

Ethyl Benzene

Concen: 2.239 ppbv

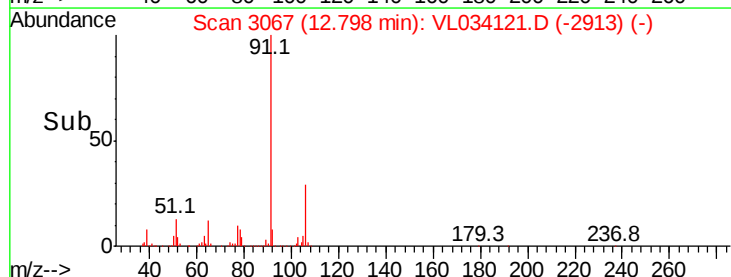
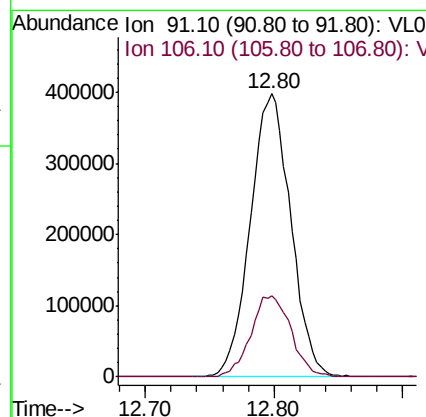
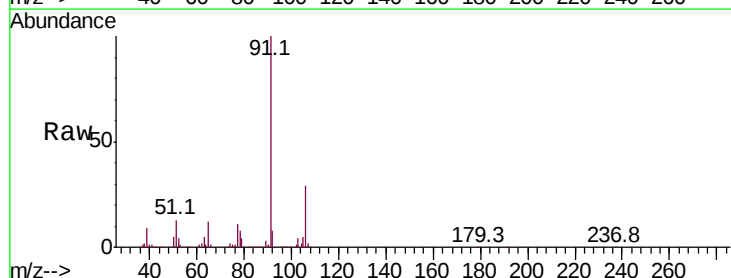
RT: 12.80 min Scan# 3067

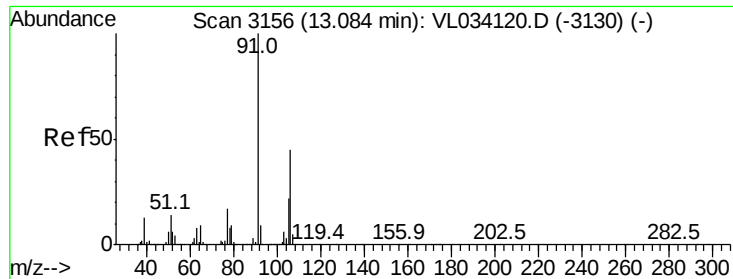
Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.9	25.3	37.9





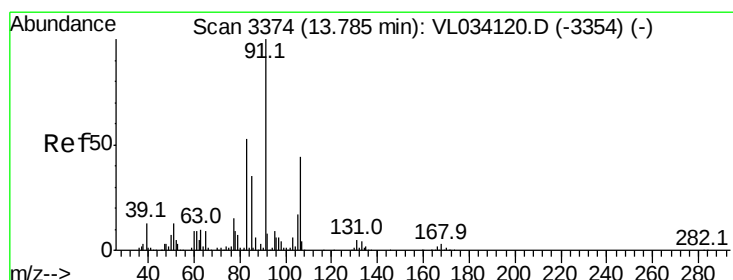
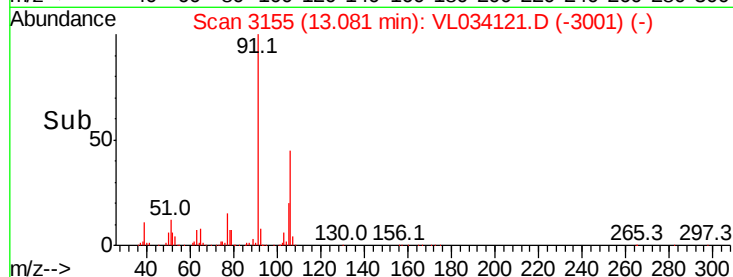
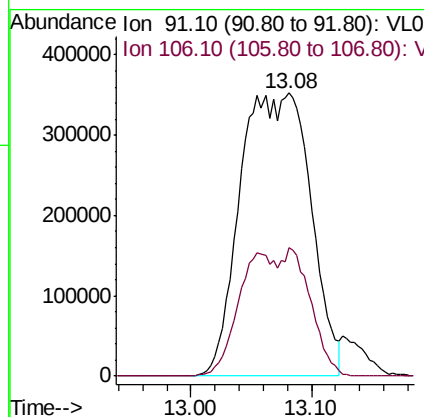
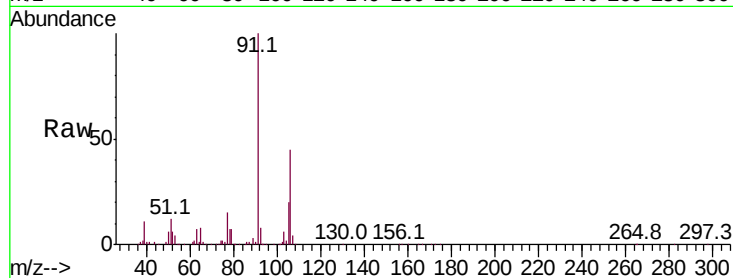
#59
m/p-Xylene
Concen: 4.500 ppbv m
RT: 13.08 min Scan# 3155
Delta R.T. -0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1421181
Ion Ratio Lower Upper
91 100
106 42.7 35.4 53.2

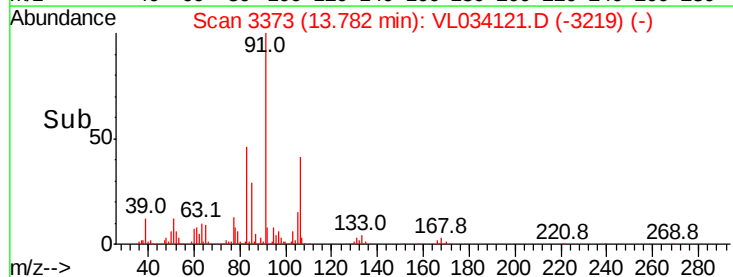
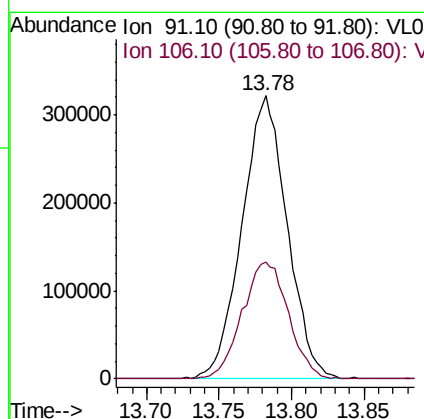
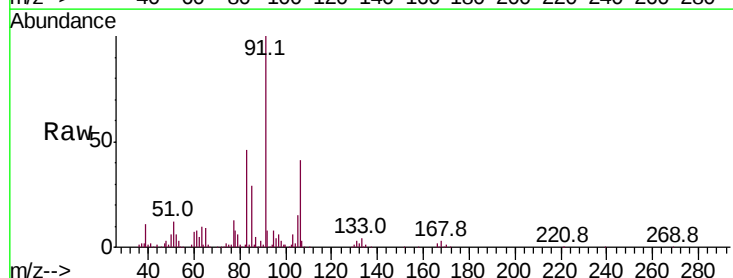
Manual Integrations
APPROVED

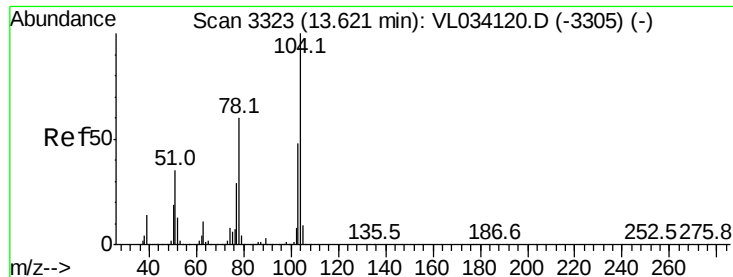
MMDadoda
9/12/2019 5:14:54 AM



#60
o-Xylene
Concen: 2.195 ppbv
RT: 13.78 min Scan# 3373
Delta R.T. -0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Tgt Ion: 91 Resp: 692055
Ion Ratio Lower Upper
91 100
106 42.8 21.4 64.3





#61

Stvrene

Concen: 2.222 ppbv

RT: 13.62 min Scan# 3322

Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

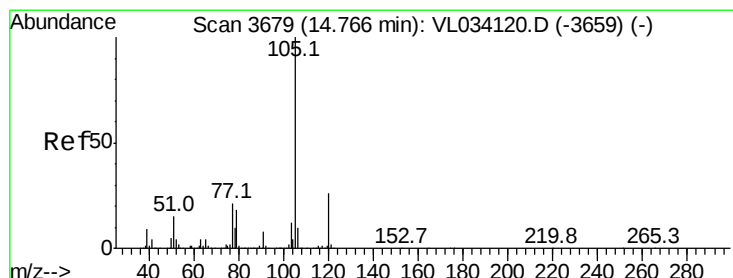
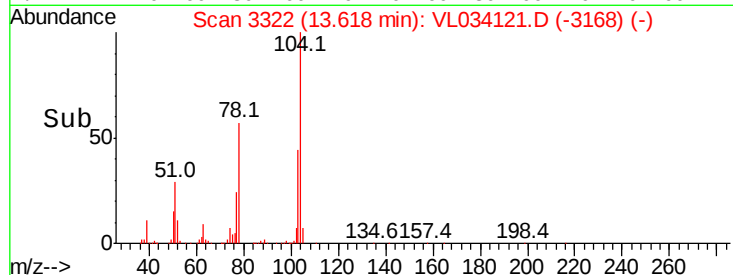
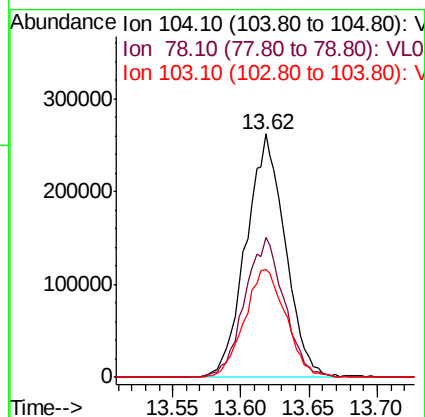
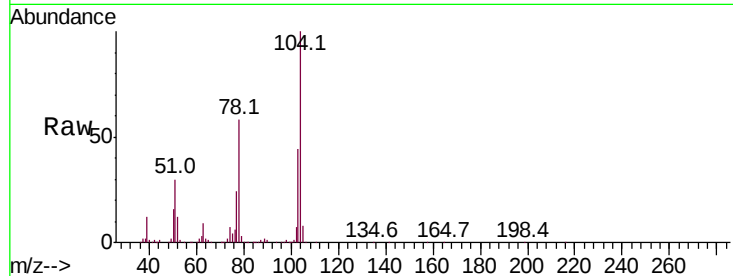
ClientSampleId :

VSTDIC002

Tot Ion:	104	Resp:	523483
Ion Ratio	Lower	Upper	
104	100		
78	58.5	47.8	71.6
103	47.0	38.7	58.1

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:14:54 AM



#62

Isopropylbenzene

Concen: 2.213 ppbv

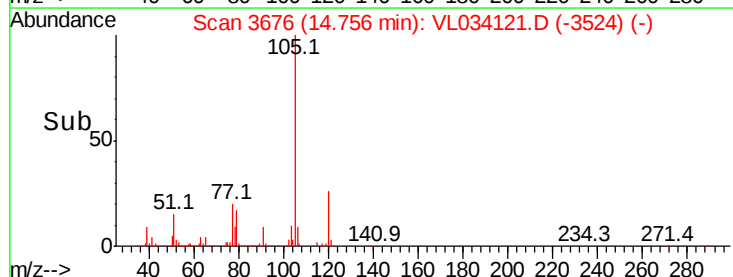
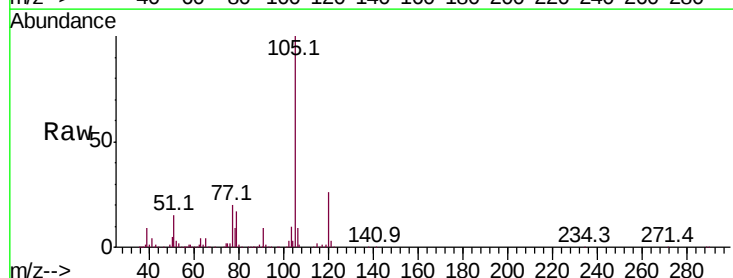
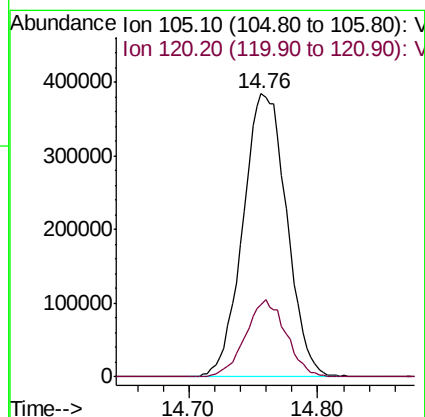
RT: 14.76 min Scan# 3676

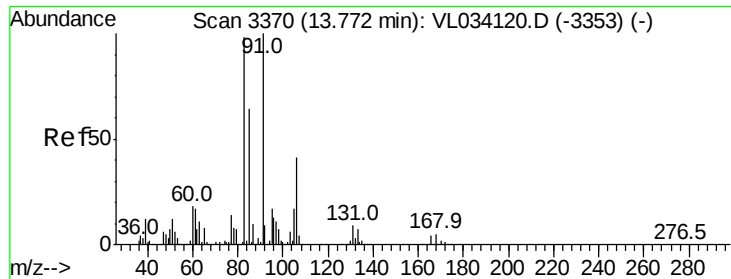
Delta R.T. -0.01 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Tgt Ion:	105	Resp:	907426
Ion Ratio	Lower	Upper	
105	100		
120	25.3	20.6	31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 1.994 ppbv

RT: 13.77 min Scan# 3368

Delta R.T. -0.01 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 83 Resp: 514309

Ion Ratio Lower Upper

83 100

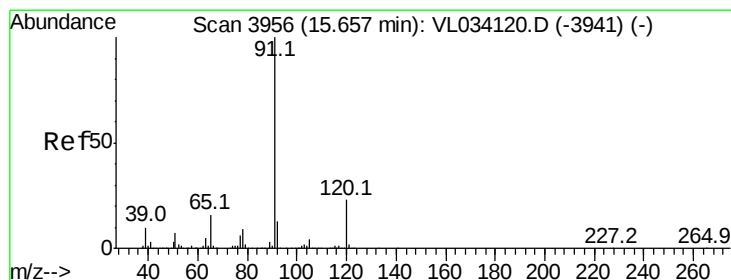
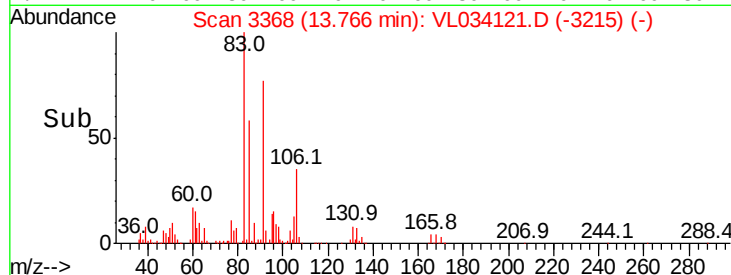
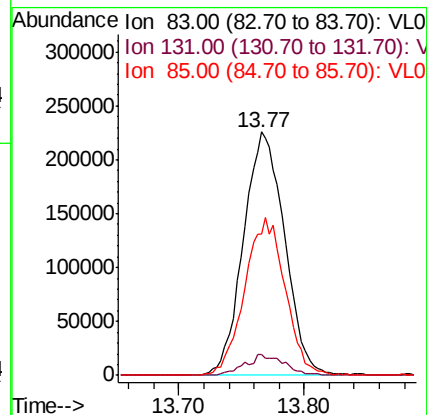
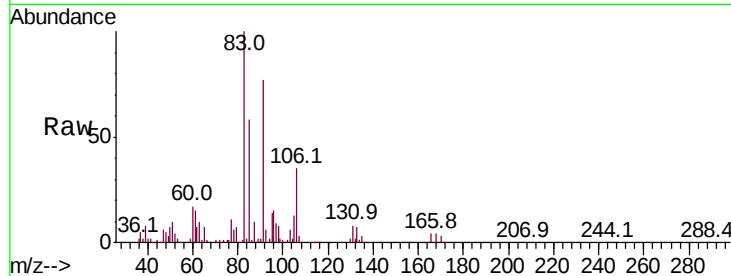
131 8.1 4.3 12.8

85 63.7 32.5 97.5

Manual Integrations
APPROVED

MMDadoda

9/12/2019 5:14:54 AM



#64

n-propylbenzene

Concen: 2.211 ppbv

RT: 15.65 min Scan# 3955

Delta R.T. -0.00 min

Lab File: VL034121.D

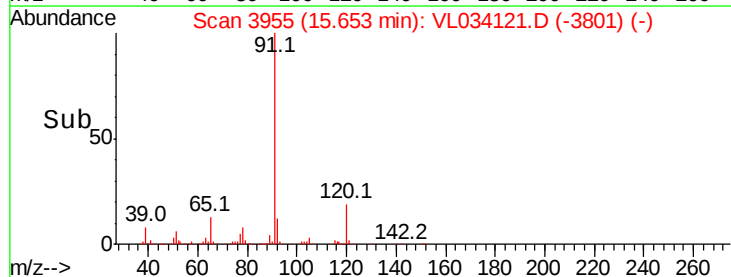
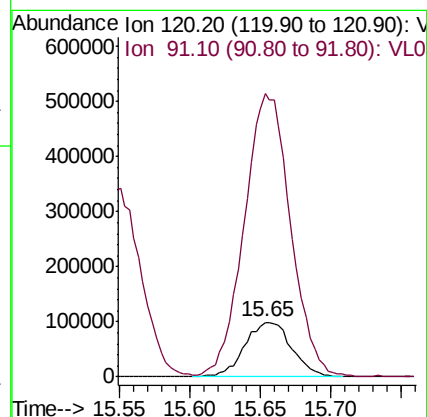
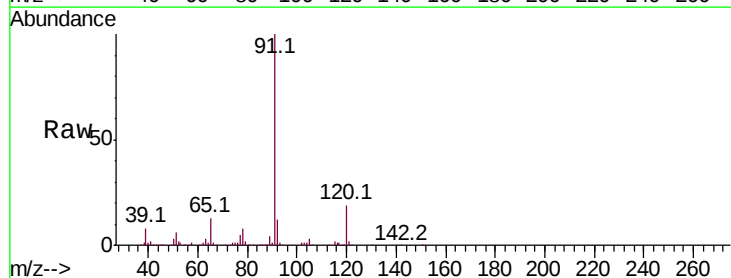
Acq: 5 Sep 2019 3:09

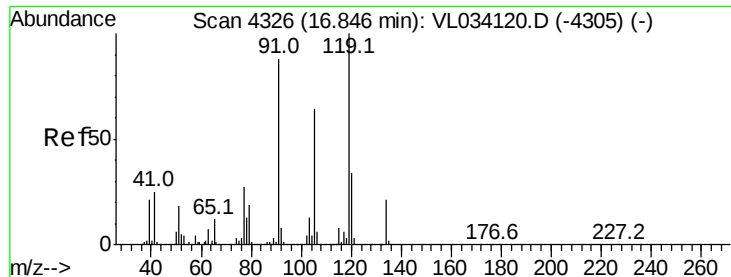
Tgt Ion: 120 Resp: 230558

Ion Ratio Lower Upper

120 100

91 513.2 376.8 565.2





#65

tert-Butylbenzene

Concen: 2.260 ppbv m

RT: 16.84 min Scan# 4324

Delta R.T. -0.01 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:119 Resp: 798393

Ion Ratio Lower Upper

119 100

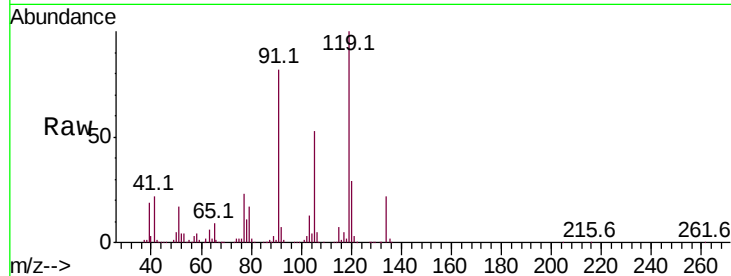
91 0.0 72.8 109.2#

134 19.7 15.8 23.8

Manual Integrations
APPROVED

MMDadoda

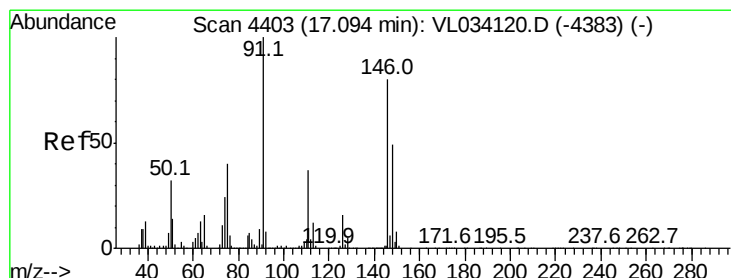
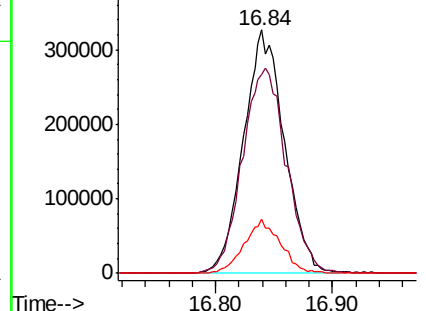
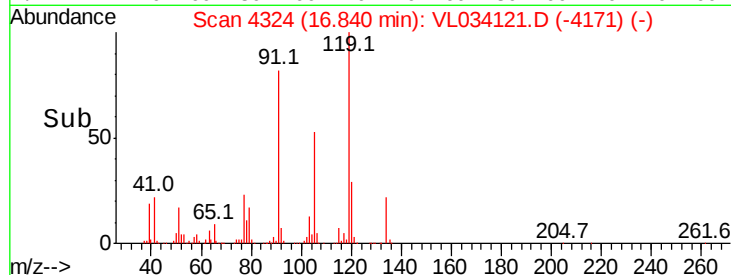
9/12/2019 5:14:54 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 2.244 ppbv

RT: 17.09 min Scan# 4402

Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

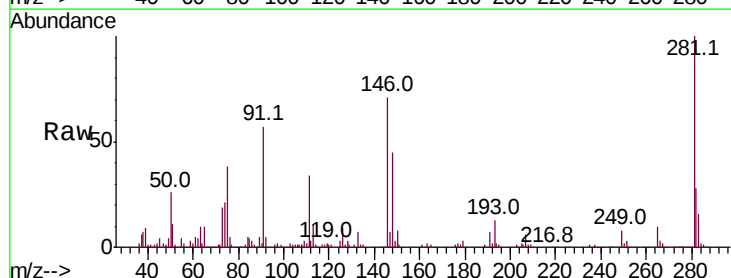
Tgt Ion: 91 Resp: 292165

Ion Ratio Lower Upper

91 100

126 19.5 13.7 20.5

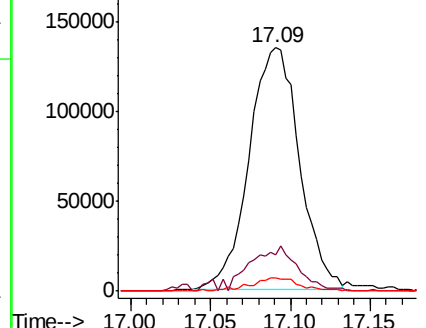
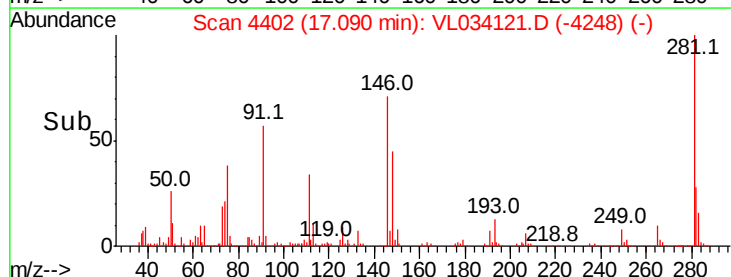
128 5.5 4.2 6.4

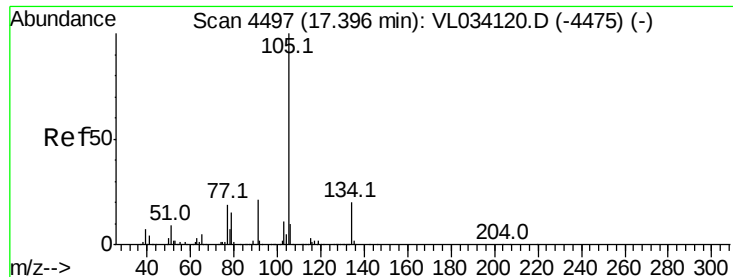


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 2.289 ppbv

RT: 17.39 min Scan# 4496

Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 1165080

Ion Ratio Lower Upper

105 100

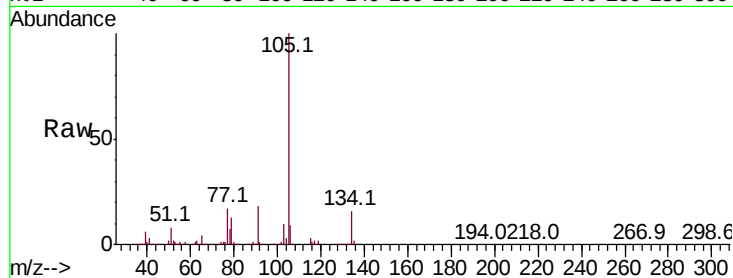
134 17.2 15.0 22.4

Manual Integrations

APPROVED

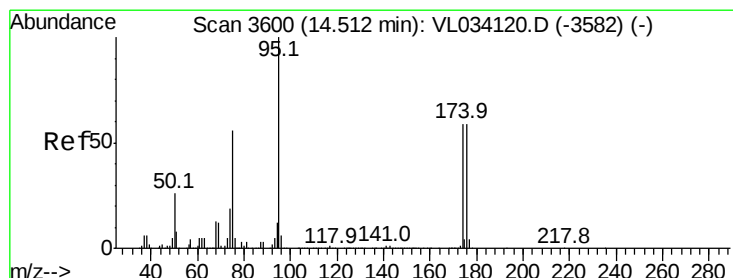
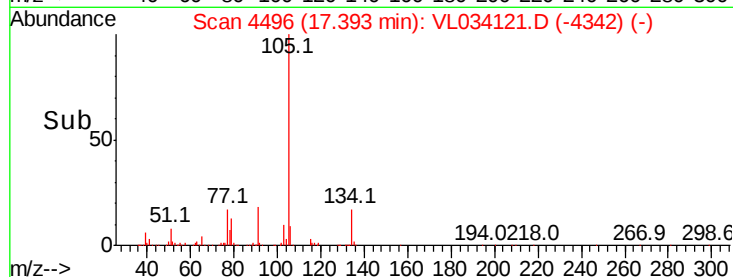
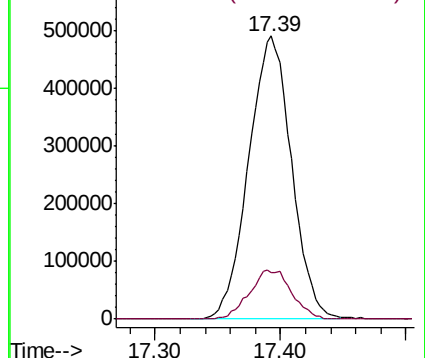
MMDadoda

9/12/2019 5:14:54 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.920 ppbv

RT: 14.51 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

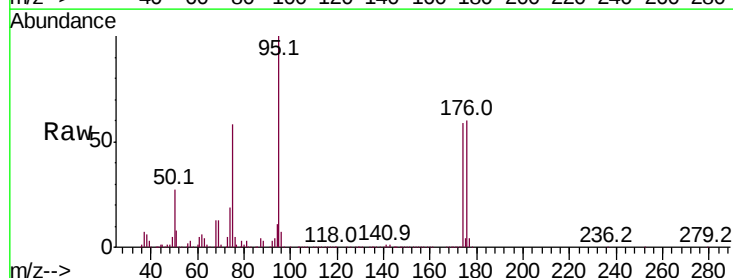
Tgt Ion: 95 Resp: 1919383

Ion Ratio Lower Upper

95 100

174 60.2 48.1 72.1

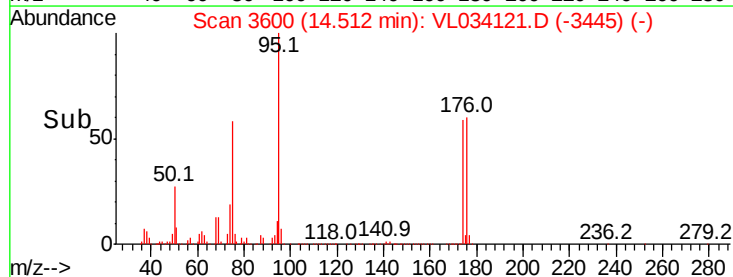
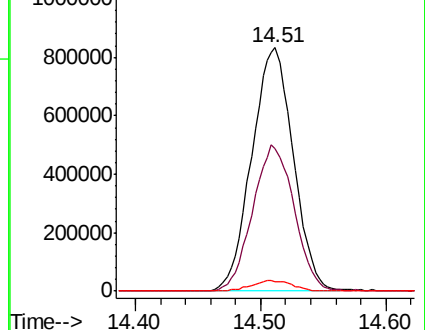
175 4.3 3.5 5.3

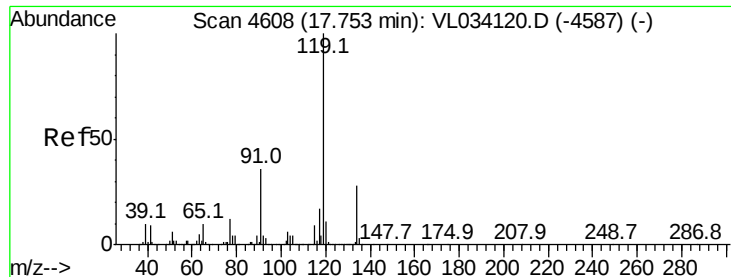


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





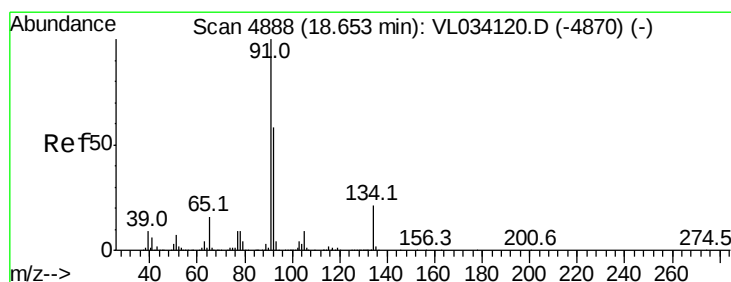
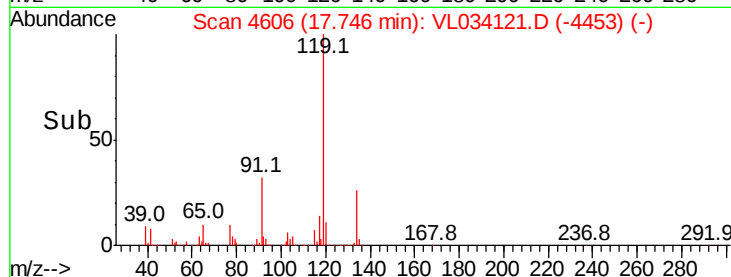
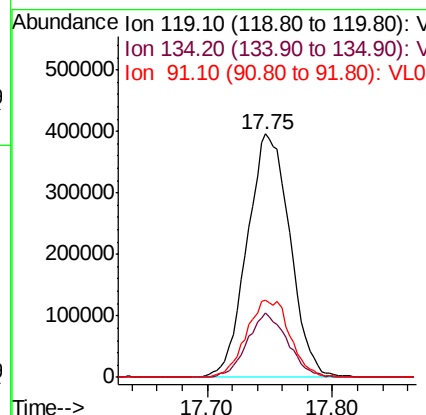
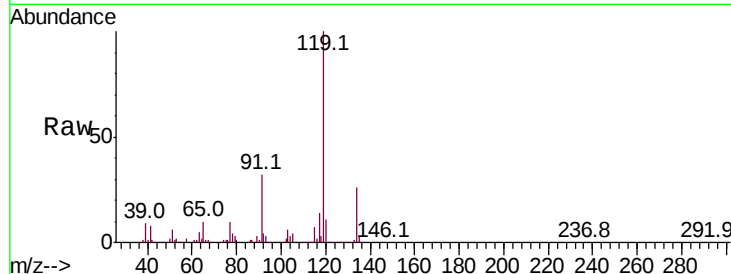
#69
 p-Isopropyltoluene
 Concen: 2.295 ppbv
 RT: 17.75 min Scan# 4606
 Delta R.T. -0.01 min
 Lab File: VL034121.D
 Acq: 5 Sep 2019 3:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	119	Resp	932925
Ion Ratio	Lower	Upper	
119	100		
134	25.1	20.8	31.2
91	32.5	27.2	40.8

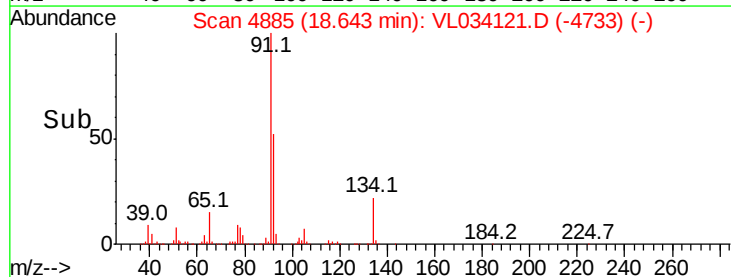
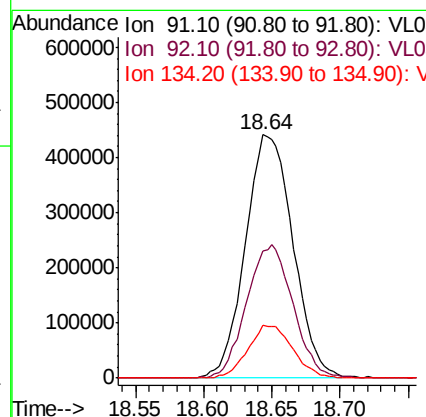
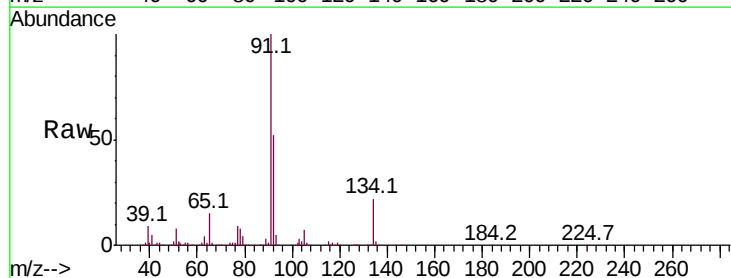
Manual Integrations
 APPROVED

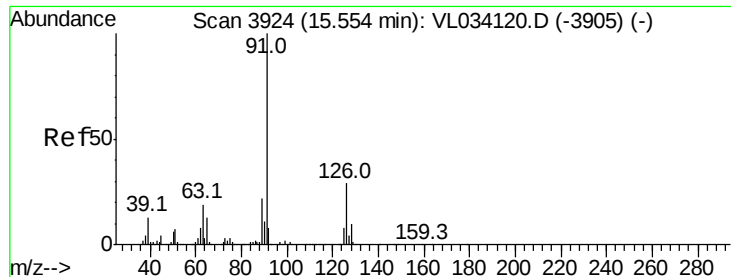
MMDadoda
 9/12/2019 5:14:54 AM



#70
 n-Butylbenzene
 Concen: 2.300 ppbv
 RT: 18.64 min Scan# 4885
 Delta R.T. -0.01 min
 Lab File: VL034121.D
 Acq: 5 Sep 2019 3:09

Tgt Ion	91	Resp	1066298
Ion Ratio	Lower	Upper	
91	100		
92	53.8	45.3	67.9
134	20.6	17.4	26.0





#71

2-Chlorotoluene

Concen: 2.243 ppbv

RT: 15.55 min Scan# 3923

Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

ClientSampled :

VSTDIC002

Tot Ion: 91 Resp: 751837

Ion Ratio Lower Upper

91 100

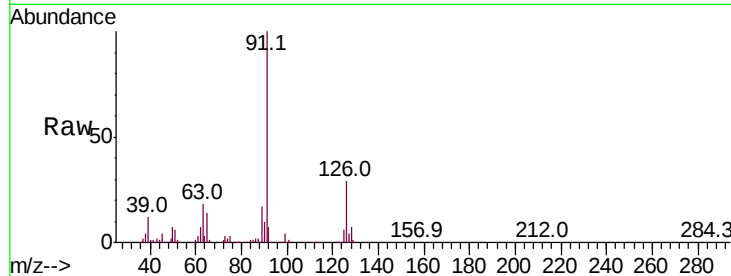
126 27.3 11.4 45.4

Manual Integrations

APPROVED

MMDadoda

9/12/2019 5:14:54 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

600000

500000

400000

300000

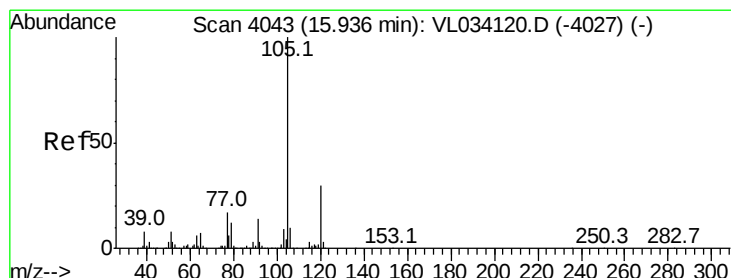
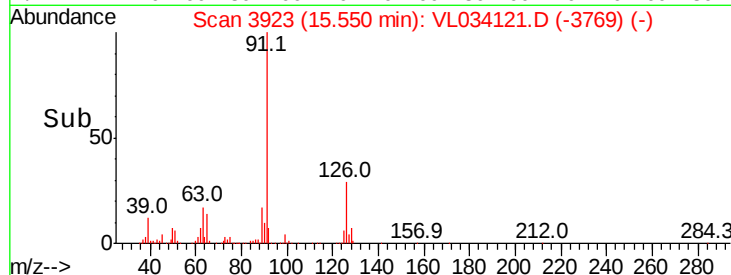
200000

100000

0

15.45 15.50 15.55 15.60

Time-->



#72

4-Ethyltoluene

Concen: 2.248 ppbv

RT: 15.93 min Scan# 4042

Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Tgt Ion:105 Resp: 799701

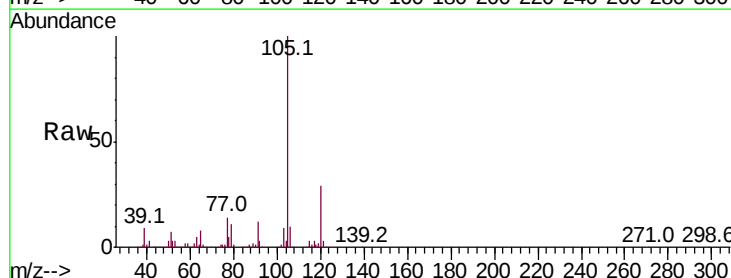
Ion Ratio Lower Upper

105 100

120 28.7 23.8 35.6

91 13.0 11.4 17.0

77 15.2 12.6 18.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

500000

400000

300000

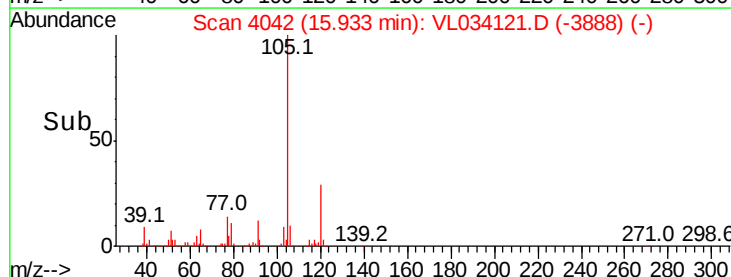
200000

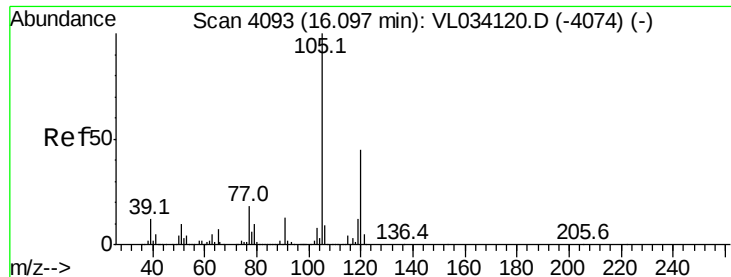
100000

0

15.90 15.93 15.96 16.00

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 2.265 ppbv

RT: 16.09 min Scan# 4092

Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 783045

Ion Ratio Lower Upper

105 100

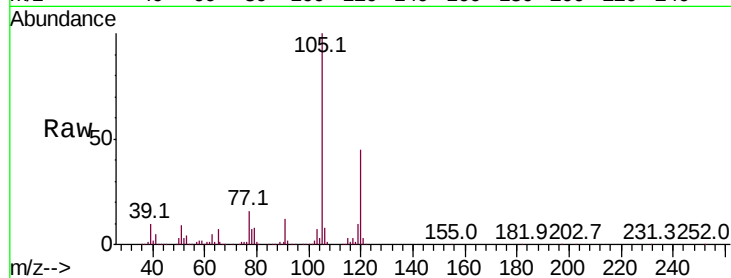
120 44.4 35.8 53.8

Manual Integrations

APPROVED

MMDadoda

9/12/2019 5:14:54 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.09

400000

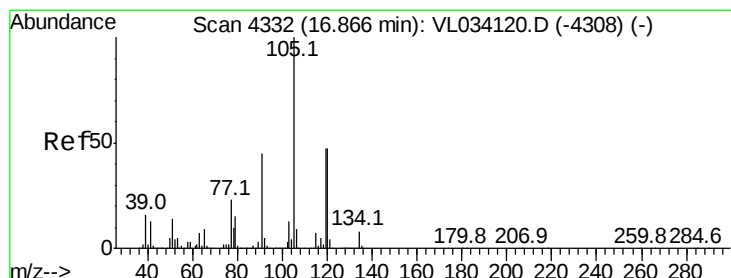
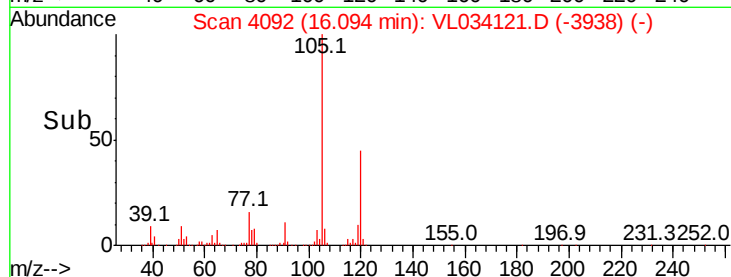
300000

200000

100000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 2.295 ppbv

RT: 16.86 min Scan# 4331

Delta R.T. -0.00 min

Lab File: VL034121.D

Acq: 5 Sep 2019 3:09

Tgt Ion:105 Resp: 817009

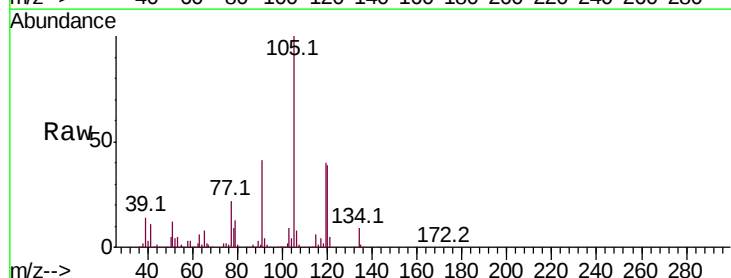
Ion Ratio Lower Upper

105 100

120 38.7 37.7 56.5

91 40.7 36.2 54.2

77 21.9 18.5 27.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

500000

400000

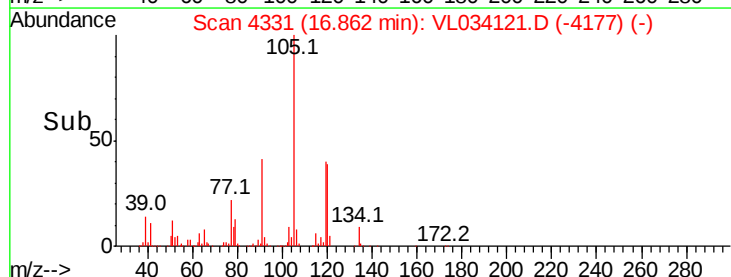
300000

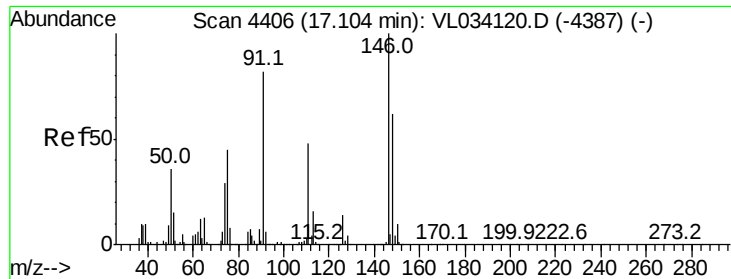
200000

100000

0

Time-->





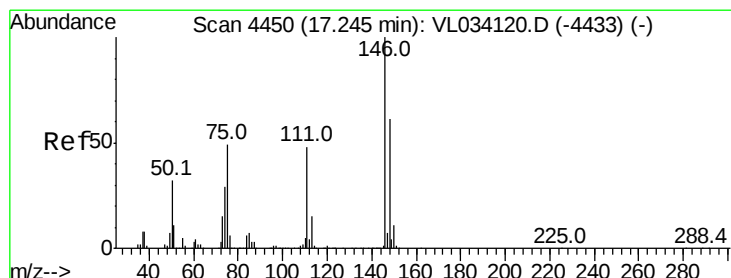
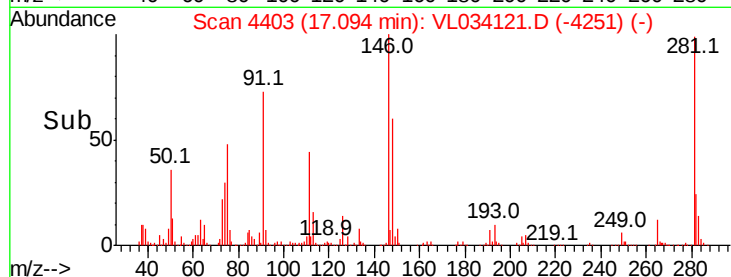
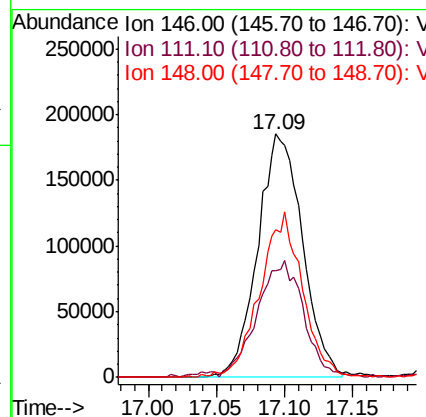
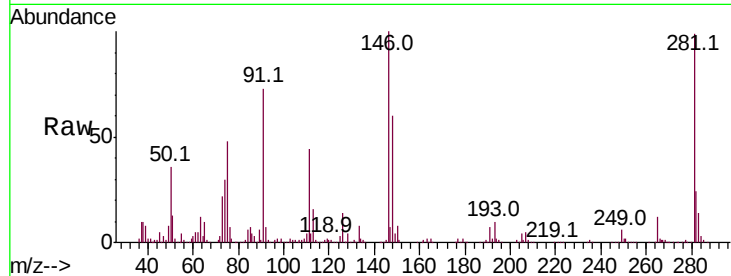
#75
 1,3-Dichlorobenzene
 Concen: 2.233 ppbv
 RT: 17.09 min Scan# 4403
 Delta R.T. -0.01 min
 Lab File: VL034121.D
 Acq: 5 Sep 2019 3:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.1	24.9	74.7
148	64.7	32.5	97.5

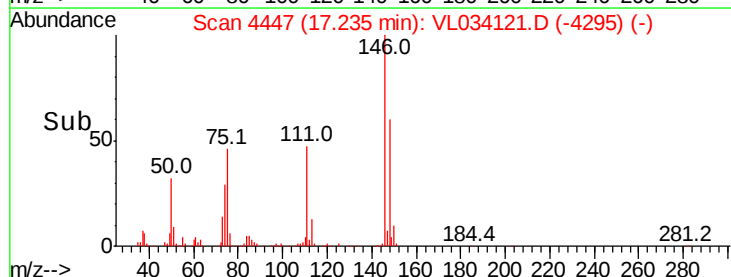
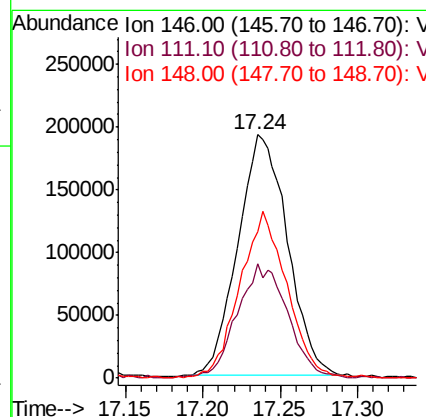
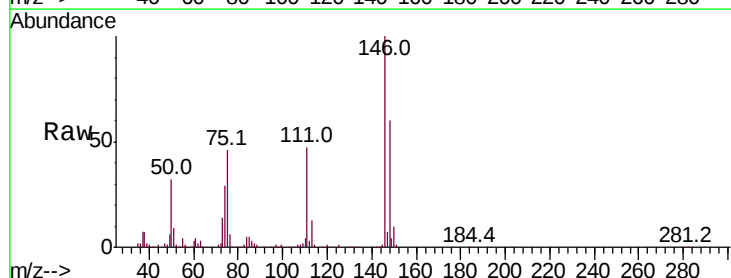
Manual Integrations
 APPROVED

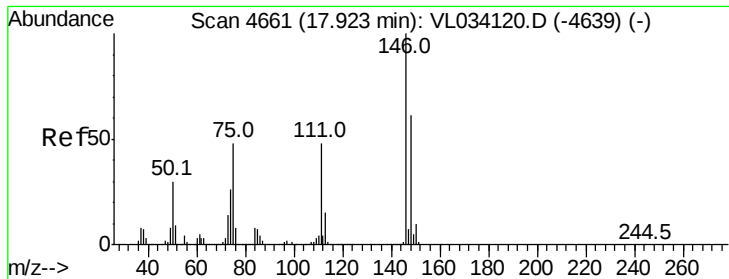
MMDadoda
 9/12/2019 5:14:54 AM



#76
 1,4-Dichlorobenzene
 Concen: 2.151 ppbv
 RT: 17.24 min Scan# 4447
 Delta R.T. -0.01 min
 Lab File: VL034121.D
 Acq: 5 Sep 2019 3:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.5	24.3	72.8
148	66.3	32.6	98.0





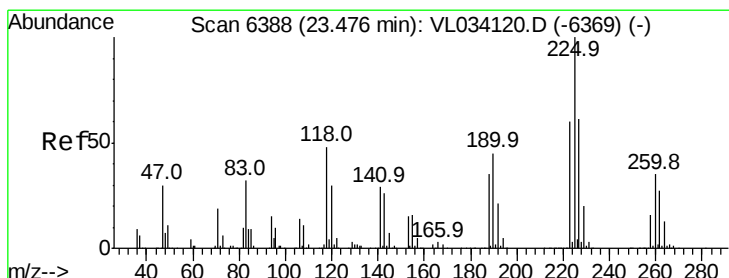
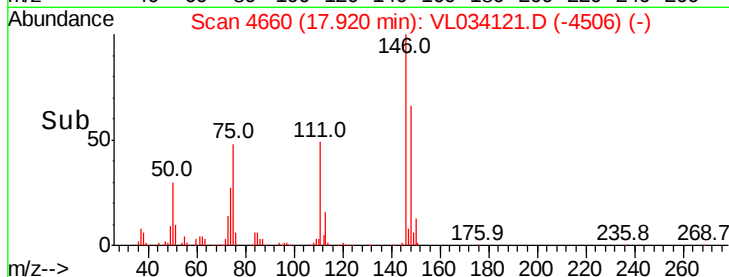
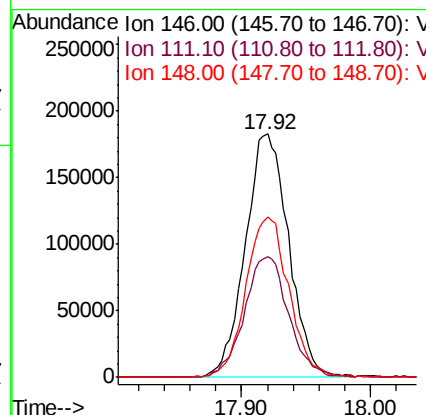
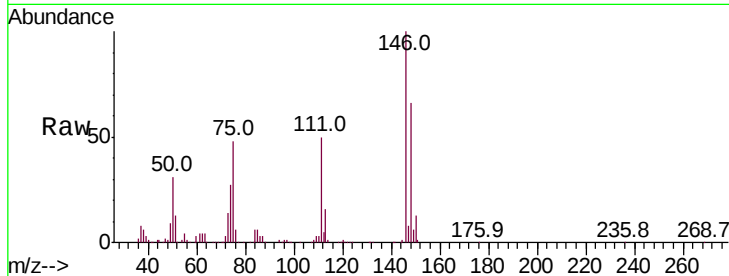
#77
 1,2-Dichlorobenzene
 Concen: 2.212 ppbv
 RT: 17.92 min Scan# 4660
 Delta R.T. -0.00 min
 Lab File: VL034121.D
 Acq: 5 Sep 2019 3:09

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.0	25.1	75.4
148	65.8	32.0	96.2

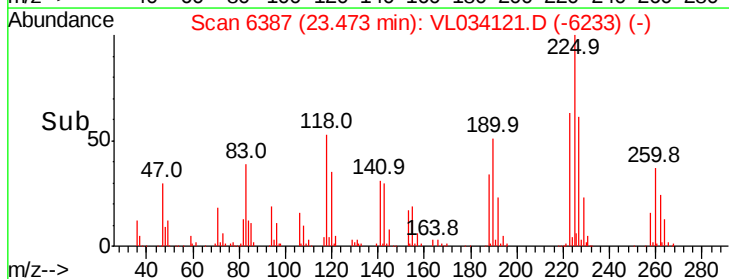
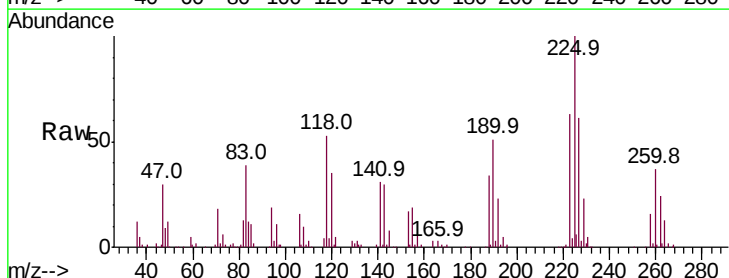
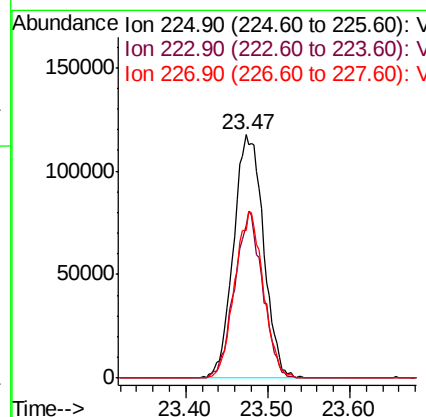
Manual Integrations
 APPROVED

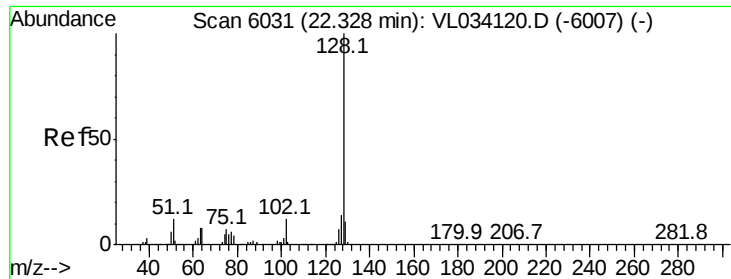
MMDadoda
 9/12/2019 5:14:54 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.244 ppbv m
 RT: 23.47 min Scan# 6387
 Delta R.T. -0.00 min
 Lab File: VL034121.D
 Acq: 5 Sep 2019 3:09

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.3	75.5#
227	0.0	50.9	76.3#





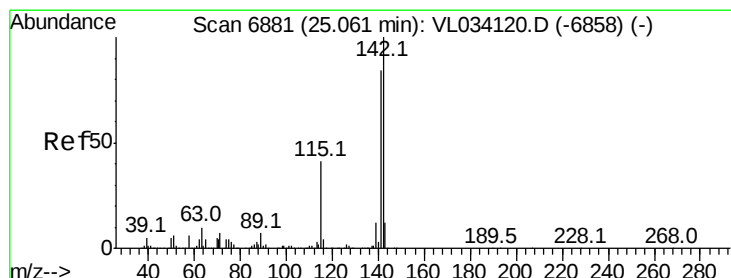
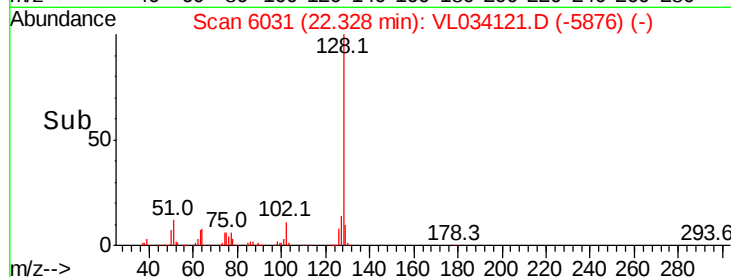
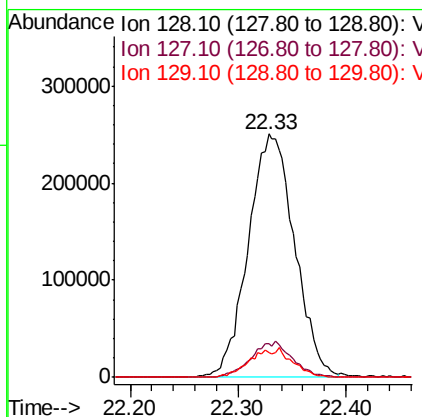
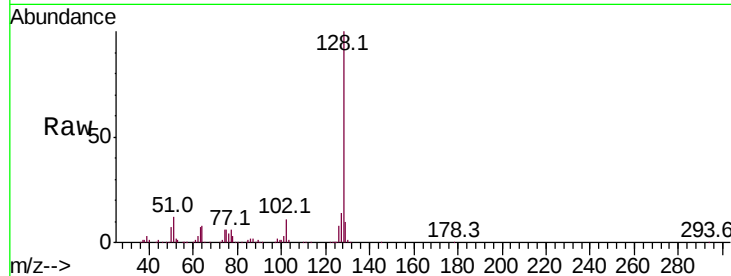
#79
Naphthalene
Concen: 2.315 ppbv
RT: 22.33 min Scan# 6031
Delta R.T. -0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:128	Resp:	744619
Ion Ratio	Lower	Upper
128 100		
127 14.0	10.9	16.3
129 10.2	8.5	12.7

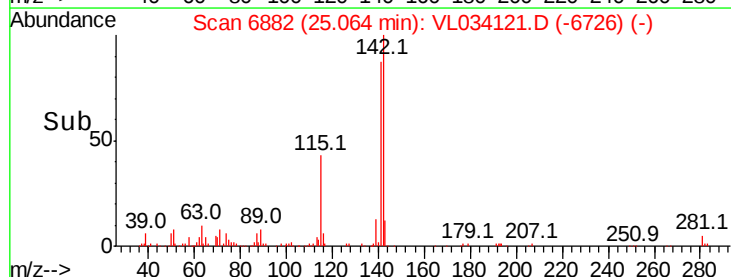
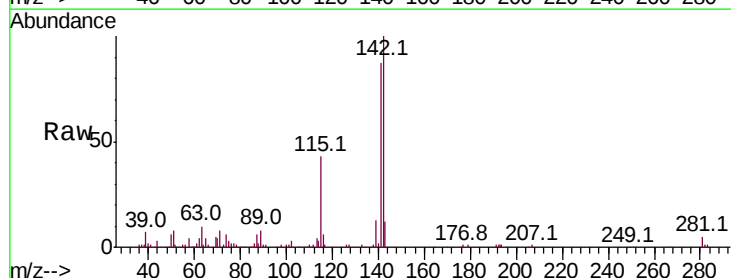
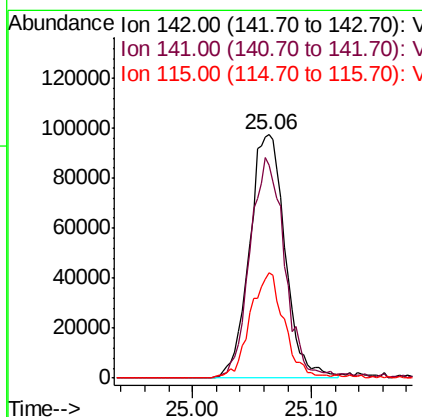
Manual Integrations
APPROVED

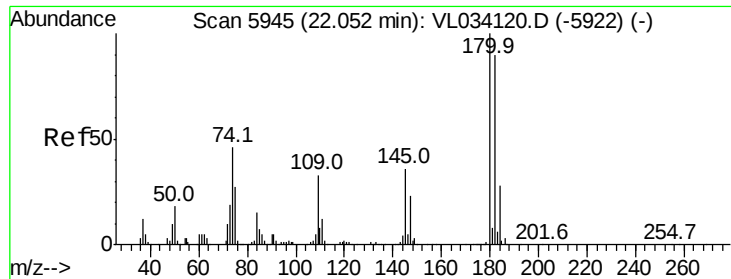
MMDadoda
9/12/2019 5:14:54 AM



#80
Naphthalene, 2-methyl-
Concen: 1.803 ppbv
RT: 25.06 min Scan# 6882
Delta R.T. 0.00 min
Lab File: VL034121.D
Acq: 5 Sep 2019 3:09

Tgt Ion:142	Resp:	201398
Ion Ratio	Lower	Upper
142 100		
141 89.3	67.6	101.4
115 42.3	34.6	52.0





#81
 1,2,4-Trichlorobenzene
 Concen: 2.301 ppbv m
 RT: 22.05 min Scan# 5946
 Delta R.T. 0.00 min
 Lab File: VL034121.D
 Acq: 5 Sep 2019 3:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	402956		
182	98.3		77.0	115.4
184	30.4		25.5	38.3

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:14:54 AM

