

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082018\
 Data File : VL032408.D
 Acq On : 20 Aug 2018 17:20
 Operator : SY/AP
 Sample : VL0820ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0820ABS01

Manual Integrations
 APPROVED

MMDadoda
 8/28/2018 2:53:51 PM

Quant Time: Aug 28 14:00:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 28 2018
 QLast Update : Tue Aug 28 13:07:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	1785404	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3624063	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3801573m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.64	95	2785147	9.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.11	85	1916781	10.53	ppbv	99
3) Chlorodifluoromethane	3.05	51	1632880	9.87	ppbv	99
4) Chloromethane	3.21	50	1011694	10.28	ppbv	99
5) Vinyl Chloride	3.32	62	943983	10.06	ppbv	99
6) Bromomethane	3.55	94	536719	10.67	ppbv	97
7) Chloroethane	3.64	64	344196	10.46	ppbv	94
8) Dichlorotetrafluoroethane	3.25	85	2007259	9.95	ppbv	99
9) Propene	3.07	41	746136	10.54	ppbv	98
10) Heptane	8.31	43	2639366	12.38	ppbv	100
11) Trichlorofluoromethane	4.04	101	2058297	10.31	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.60	101	1351050	10.05	ppbv	98
13) Ethanol	3.69	45	200900	11.05	ppbv	97
14) Bromoethene	3.83	108	638464	10.98	ppbv	99
15) Acetone	3.94	43	1631369	9.62	ppbv	100
16) 1,3-Butadiene	3.40	39	729333	10.41	ppbv	96
17) tert-Butyl alcohol	4.40	59	298013	10.47	ppbv	99
18) 1,1-Dichloroethene	4.40	96	647511	10.33	ppbv	98
19) Isopropyl Alcohol	4.06	45	1256266	11.00	ppbv #	98
20) Methylene Chloride	4.45	84	576110	8.99	ppbv	97
21) Allyl Chloride	4.52	41	1153091	10.77	ppbv	99
22) trans-1,2-Dichloroethene	5.01	96	700484	11.09	ppbv	98
23) Vinyl Acetate	5.20	43	3130494	10.69	ppbv	99
24) 1,1-Dichloroethane	5.14	63	2205531	10.43	ppbv	99
25) Ethyl Acetate	5.82	43	3765383	10.36	ppbv	99
26) Hexane	5.83	57	1721415	10.62	ppbv	99
27) Carbon Disulfide	4.67	76	1711173	11.31	ppbv	99
28) Methyl tert-Butyl Ether	5.16	73	2386134	11.09	ppbv	100
29) Chloroform	5.90	83	2531909	10.66	ppbv	99
30) Cyclohexane	7.31	84	1381026	11.19	ppbv	100
31) cis-1,2-Dichloroethene	5.69	61	1736326	10.95	ppbv	99
32) 1,1,1-Trichloroethane	6.67	97	2246448	9.72	ppbv	99
34) 2-Butanone	5.38	43	2701542	10.95	ppbv	98
35) Carbon Tetrachloride	7.19	117	2414708	11.30	ppbv	100
36) Benzene	7.06	78	3413988	11.11	ppbv	99
37) 1,2-Dichloroethane	6.47	62	1971729	10.58	ppbv	99
38) Trichloroethene	8.02	130	1276911	11.85	ppbv	95
39) 1,2-Dichloropropane	7.80	63	1379261	10.75	ppbv	99
40) 1,4-Dioxane	8.02	88	500701m	12.84	ppbv	
41) Tetrahydrofuran	6.20	42	1555890	11.75	ppbv	99
42) Bromodichloromethane	7.98	83	2921692	11.97	ppbv	98
43) Methyl Methacrylate	8.20	69	1594982	13.03	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082018\
 Data File : VL032408.D
 Acq On : 20 Aug 2018 17:20
 Operator : SY/AP
 Sample : VL0820ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0820ABS01

Manual Integrations
 APPROVED

MMDadoda
 8/28/2018 2:53:51 PM

Quant Time: Aug 28 14:00:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 28 2018
 QLast Update : Tue Aug 28 13:07:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	6697323	12.09	ppbv	100
45) t-1,3-Dichloropropene	9.48	75	1723689	11.13	ppbv	100
46) cis-1,3-Dichloropropene	8.90	75	2319071	12.49	ppbv	97
47) 1,1,2-Trichloroethane	9.68	97	1305425	9.24	ppbv	96
48) Dibromochloromethane	10.51	129	2059520	10.91	ppbv	100
49) Bromoform	13.27	173	1798554	11.47	ppbv	100
50) 4-Methyl-2-Pentanone	8.93	43	4036831	11.33	ppbv	100
51) 2-Hexanone	10.33	43	2894871	11.57	ppbv #	99
52) Tetrachloroethene	11.44	164	986908	10.89	ppbv	97
53) Toluene	10.01	91	3637487	10.80	ppbv	99
54) 1,2-Dibromoethane	10.83	107	1997175	11.01	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.34	131	1570726	9.99	ppbv #	57
57) Chlorobenzene	12.37	112	2817513	9.85	ppbv	98
58) Ethyl Benzene	12.93	91	5020054	10.98	ppbv	99
59) m/p-Xylene	13.21	91	8240773m	21.21	ppbv	
60) o-Xylene	13.92	91	4014901	10.51	ppbv	99
61) Styrene	13.75	104	3099589	11.61	ppbv	99
62) Isopropylbenzene	14.89	105	5658721	10.41	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.90	83	3057578	9.52	ppbv	100
64) n-propylbenzene	15.79	120	1488718	10.58	ppbv	97
65) tert-Butylbenzene	16.97	119	4784768	10.30	ppbv	100
66) Benzyl Chloride	17.22	91	3298241	12.00	ppbv	99
67) sec-Butylbenzene	17.52	105	7362843	10.66	ppbv	99
69) p-Isopropyltoluene	17.88	119	5692664	10.77	ppbv	99
70) n-Butylbenzene	18.78	91	6328548	10.92	ppbv	99
71) 2-Chlorotoluene	15.68	91	4559962	10.84	ppbv	100
72) 4-Ethyltoluene	16.06	105	4766285	11.19	ppbv	99
73) 1,3,5-Trimethylbenzene	16.22	105	4502505	10.99	ppbv	100
74) 1,2,4-Trimethylbenzene	16.99	105	4558093	10.46	ppbv	97
75) 1,3-Dichlorobenzene	17.23	146	2585414	9.87	ppbv	99
76) 1,4-Dichlorobenzene	17.38	146	2637409	10.63	ppbv	99
77) 1,2-Dichlorobenzene	18.05	146	2537896	10.14	ppbv	99
78) Hexachloro-1,3-Butadiene	23.61	225	781718	9.30	ppbv	99
79) Naphthalene	22.48	128	4246961	13.35	ppbv	99
80) Naphthalene, 2-methyl-	25.16	142	1655149	19.03	ppbv	100
81) 1,2,4-Trichlorobenzene	22.21	180	2016115	11.96	ppbv	99

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

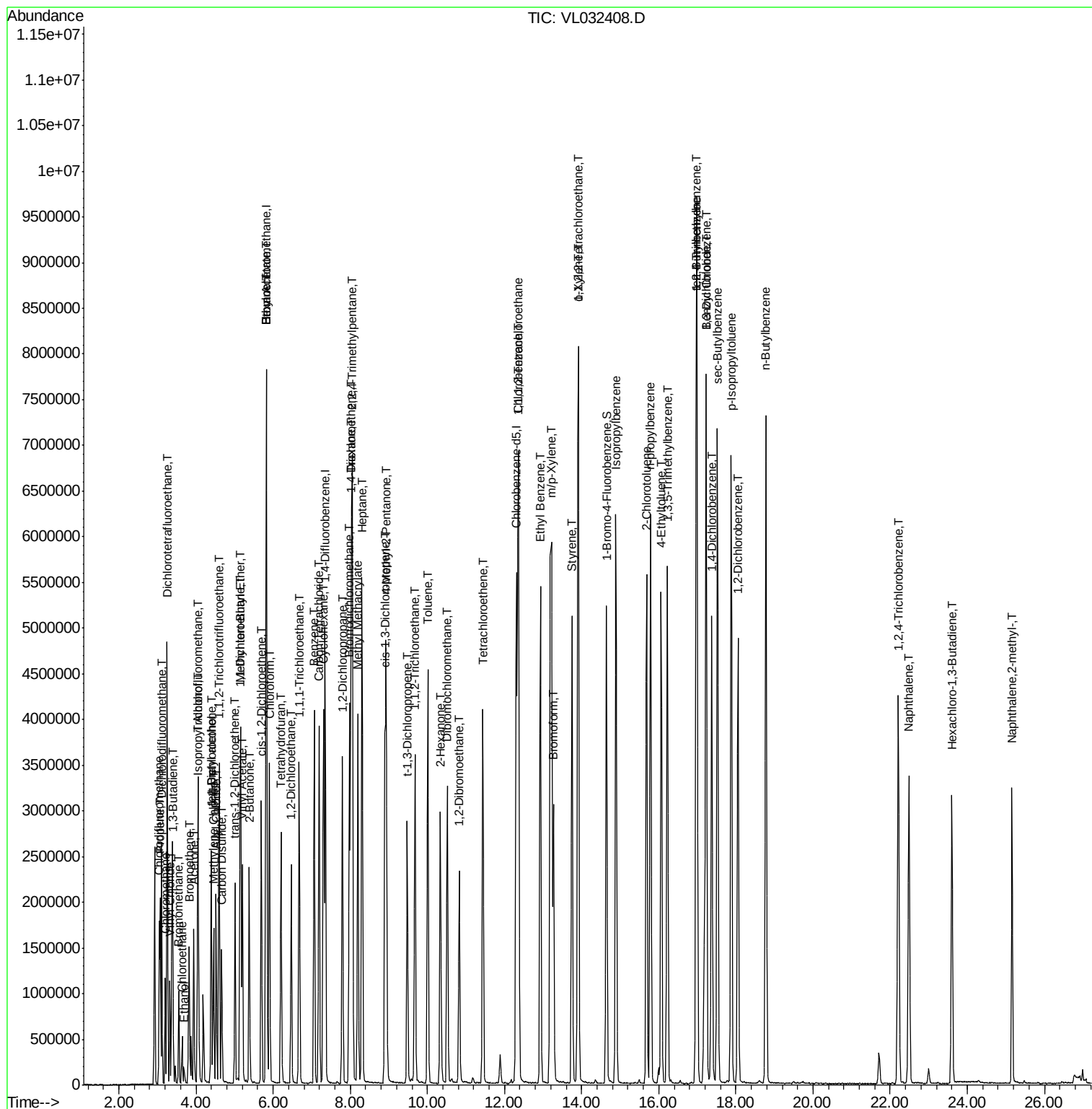
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL082018\
Data File : VL032408.D
Acq On : 20 Aug 2018 17:20
Operator : SY/AP
Sample : VL0820ABS01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

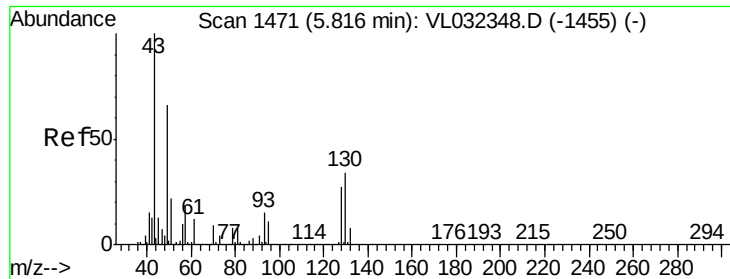
Instrument :
MSVOA_L
ClientSampleId :
VL0820ABS01

Manual Integrations APPROVED

MMDadoda
8/28/2018 2:53:51 PM

Quant Time: Aug 28 14:00:47 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Aug
QLast Update : Tue Aug 28 13:07:12 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. 0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

ClientSampleId :

VL0820ABS01

Tot Ion: 49 Resp: 1785404

Ion Ratio Lower Upper

49 100

128 40.8 20.5 61.6

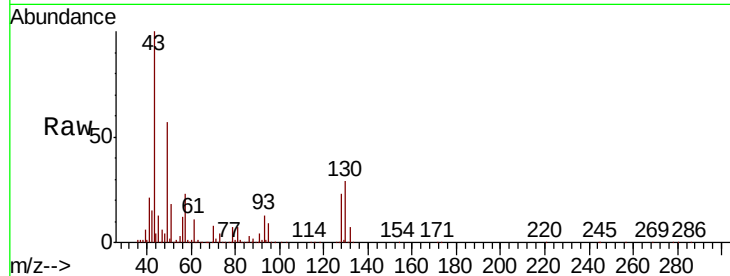
130 51.4 26.2 78.5

Manual Integrations

APPROVED

MMDadoda

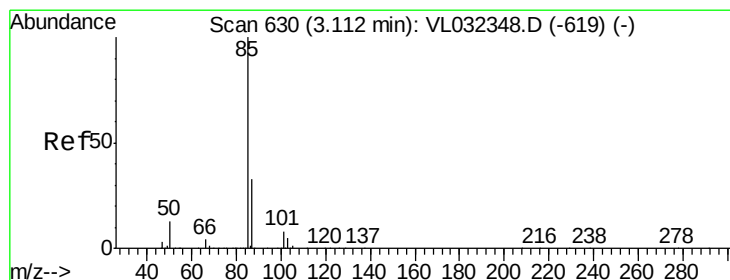
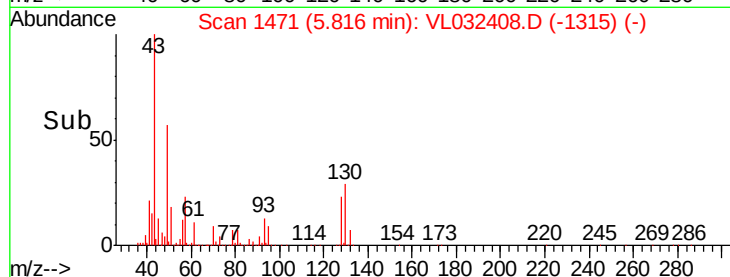
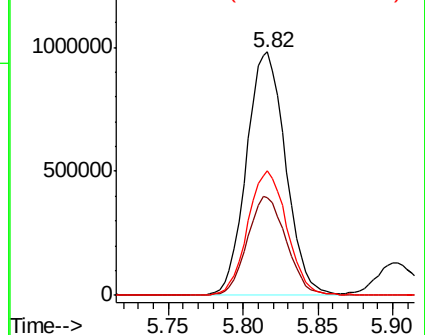
8/28/2018 2:53:51 PM



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: 10.53 ppbv

RT: 3.11 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL032408.D

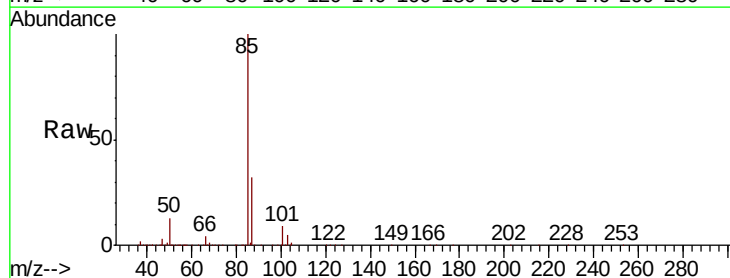
Acq: 20 Aug 2018 17:20

Tgt Ion: 85 Resp: 1916781

Ion Ratio Lower Upper

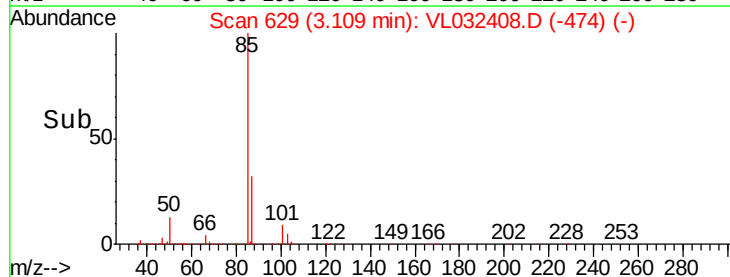
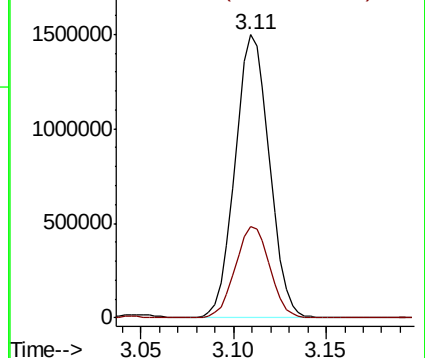
85 100

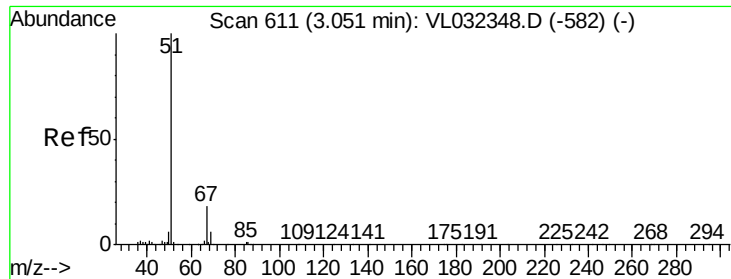
87 32.2 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.87 ppbv

RT: 3.05 min Scan# 610

Delta R.T. -0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Tot Ion: 51 Resp: 1632880

Ion Ratio Lower Upper

51 100

67 17.4 13.7 20.5

Instrument :

MSVOA_L

ClientSampleId :

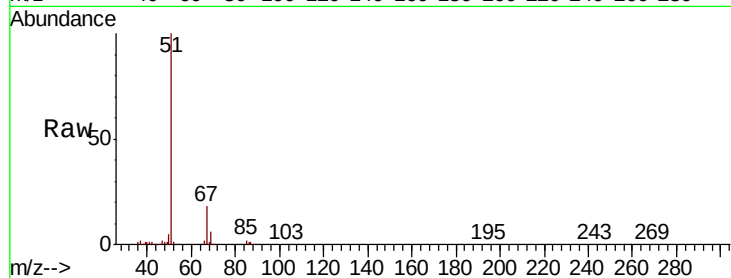
VL0820ABS01

Manual Integrations

APPROVED

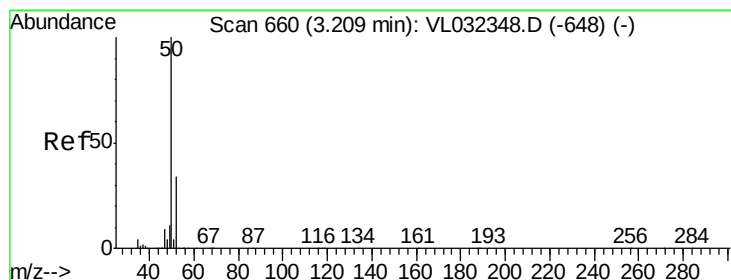
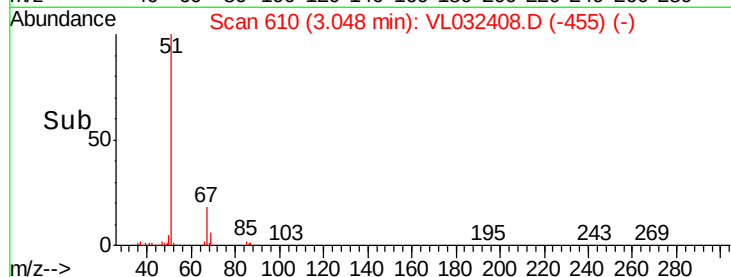
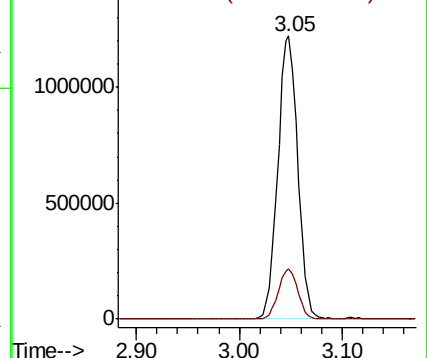
MMDadoda

8/28/2018 2:53:51 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.28 ppbv

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VL032408.D

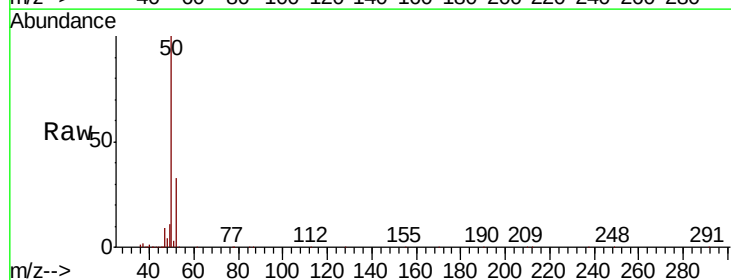
Acq: 20 Aug 2018 17:20

Tgt Ion: 50 Resp: 1011694

Ion Ratio Lower Upper

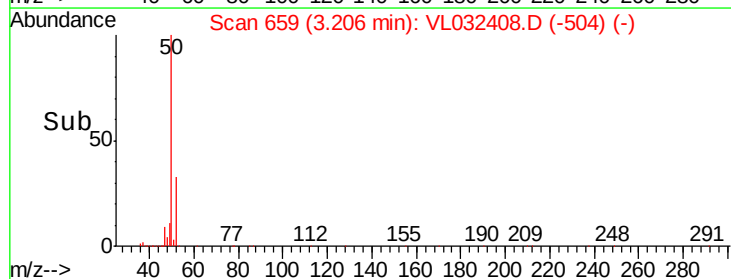
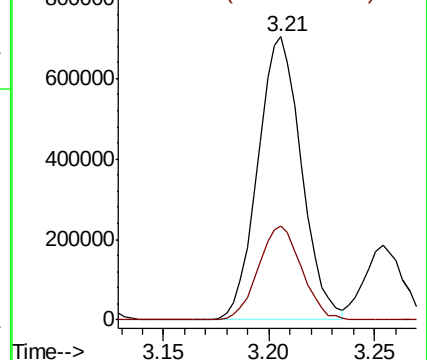
50 100

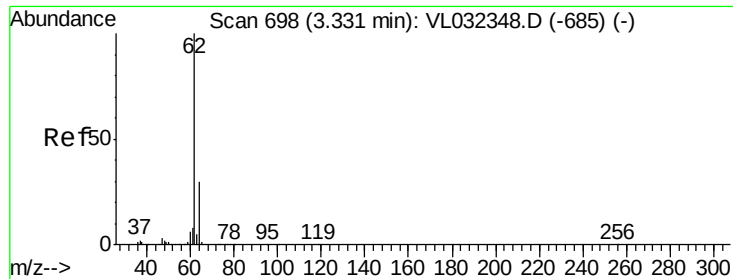
52 33.1 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.06 ppbv

RT: 3.32 min Scan# 696

Delta R.T. -0.01 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

ClientSampleId :

VL0820ABS01

Tot Ion: 62 Resp: 943983

Ion Ratio Lower Upper

62 100

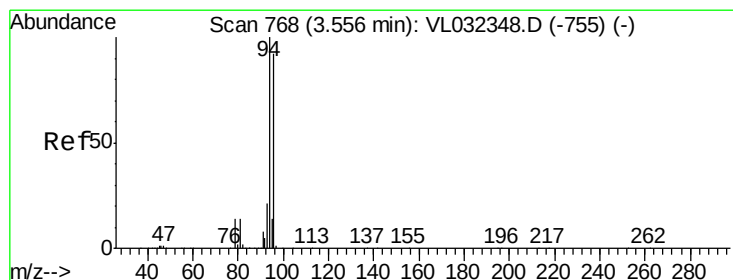
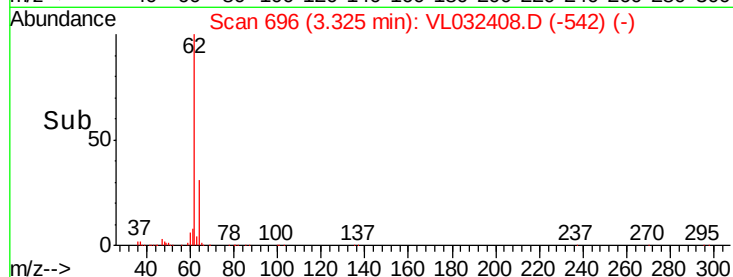
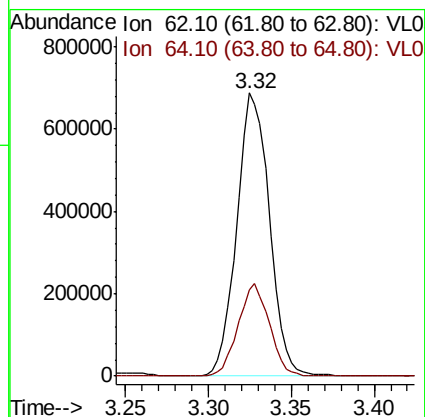
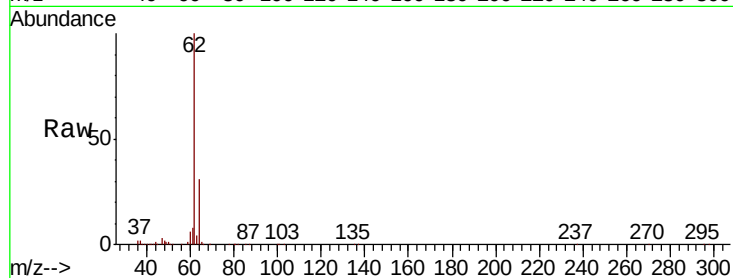
64 30.6 24.2 36.2

Manual Integrations

APPROVED

MMDadoda

8/28/2018 2:53:51 PM



#6

Bromomethane

Concen: 10.67 ppbv

RT: 3.55 min Scan# 767

Delta R.T. -0.00 min

Lab File: VL032408.D

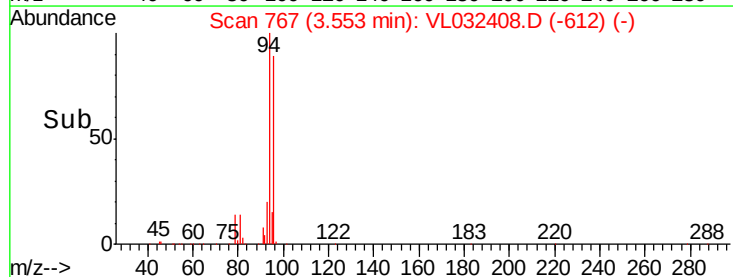
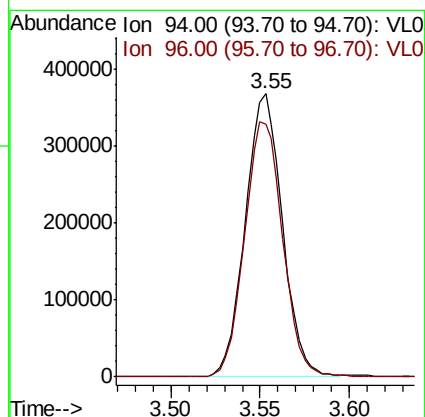
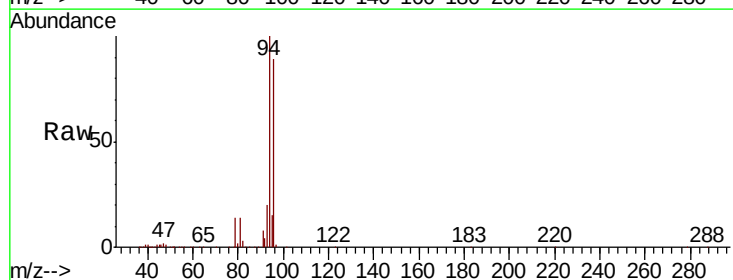
Acq: 20 Aug 2018 17:20

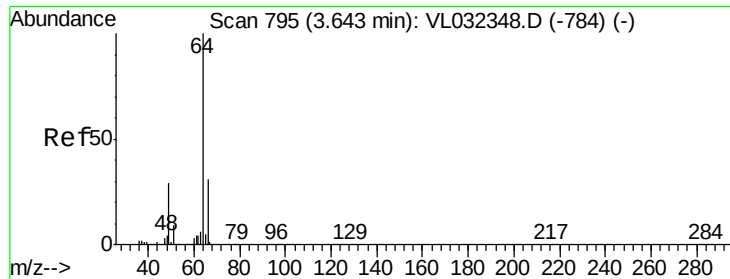
Tgt Ion: 94 Resp: 536719

Ion Ratio Lower Upper

94 100

96 89.0 73.7 110.5





#7

Chloroethane

Concen: 10.46 ppbv

RT: 3.64 min Scan# 794

Delta R.T. -0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

ClientSampleId :

VL0820ABS01

Tot Ion: 64 Resp: 344196

Ion Ratio Lower Upper

64 100

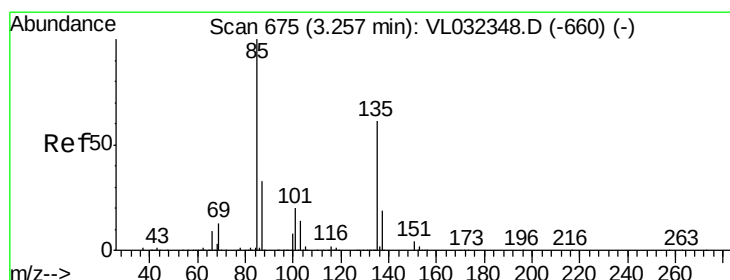
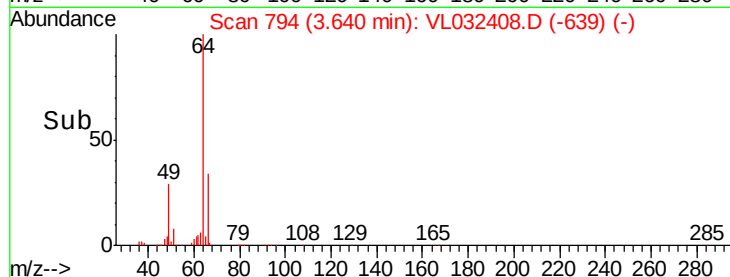
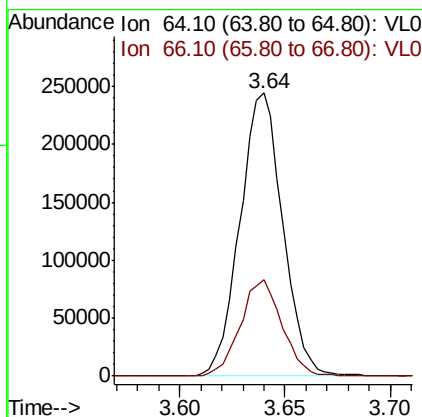
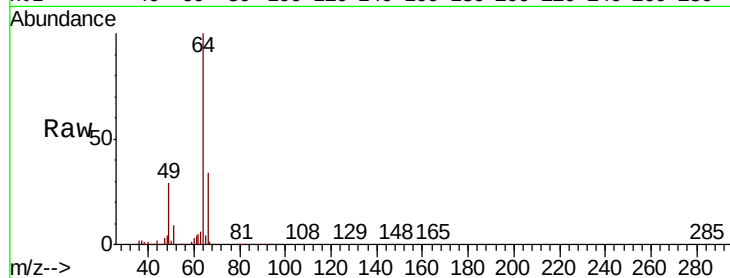
66 33.9 24.6 36.8

Manual Integrations

APPROVED

MMDadoda

8/28/2018 2:53:51 PM



#8

Dichlorotetrafluoroethane

Concen: 9.95 ppbv

RT: 3.25 min Scan# 674

Delta R.T. -0.00 min

Lab File: VL032408.D

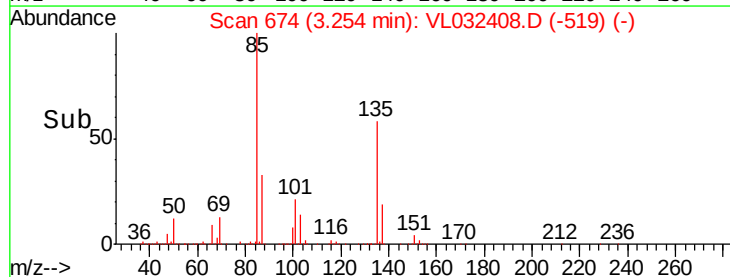
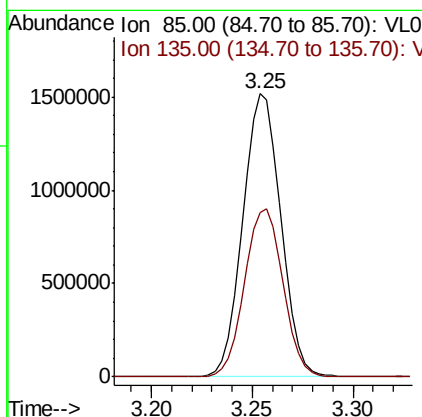
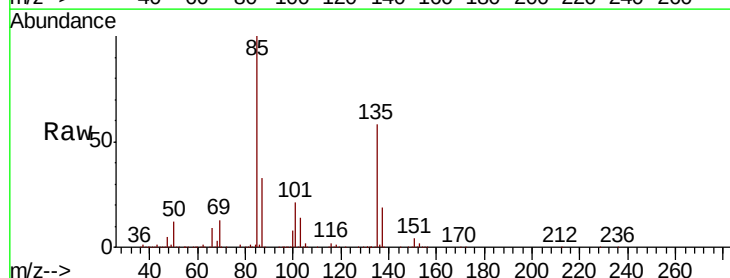
Acq: 20 Aug 2018 17:20

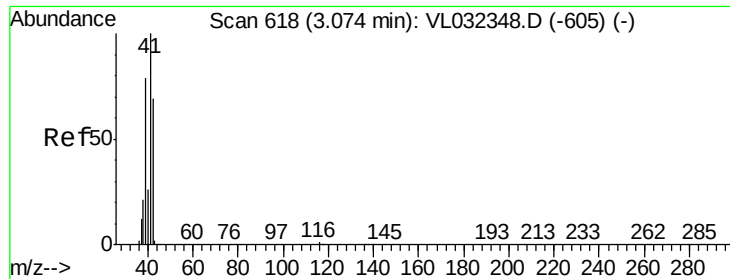
Tgt Ion: 85 Resp: 2007259

Ion Ratio Lower Upper

85 100

135 60.3 49.0 73.6





#9

Propene

Concen: 10.54 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

ClientSampleId :

VL0820ABS01

Tot Ion: 41 Resp: 746136

Ion Ratio Lower Upper

41 100

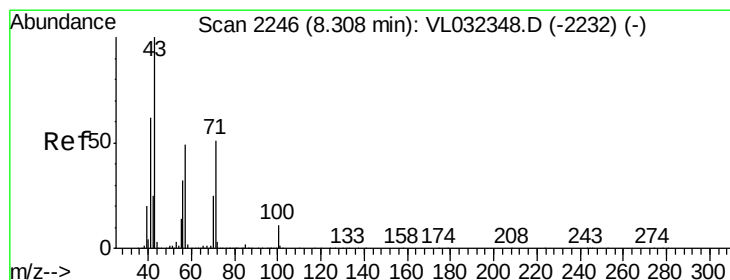
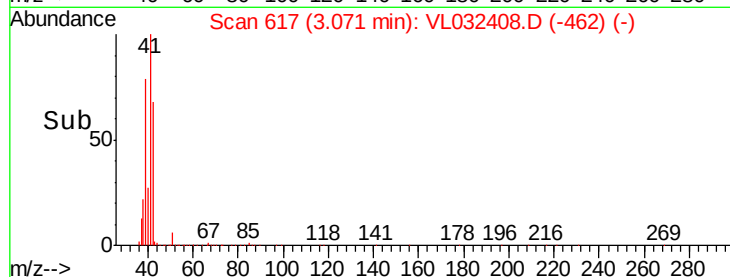
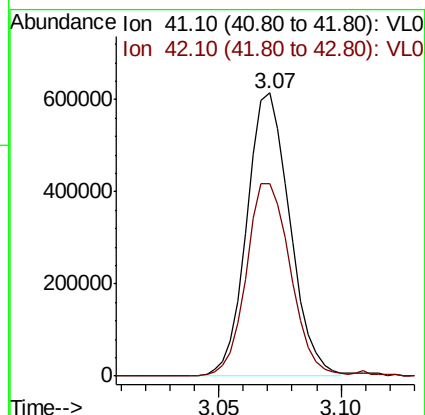
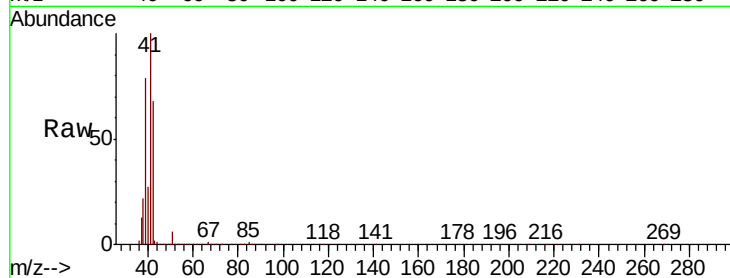
42 71.8 55.9 83.9

Manual Integrations

APPROVED

MMDadoda

8/28/2018 2:53:51 PM



#10

Heptane

Concen: 12.38 ppbv

RT: 8.31 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VL032408.D

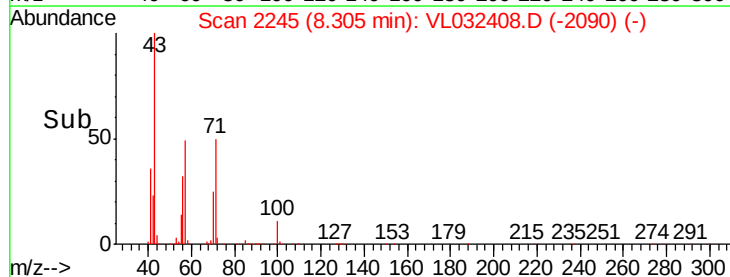
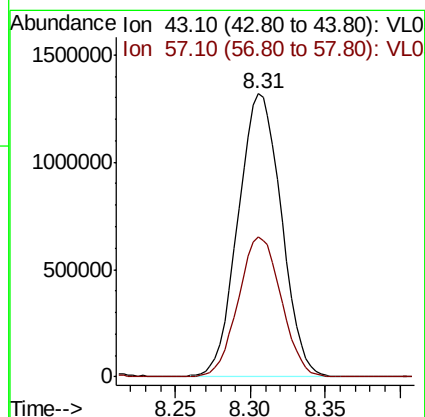
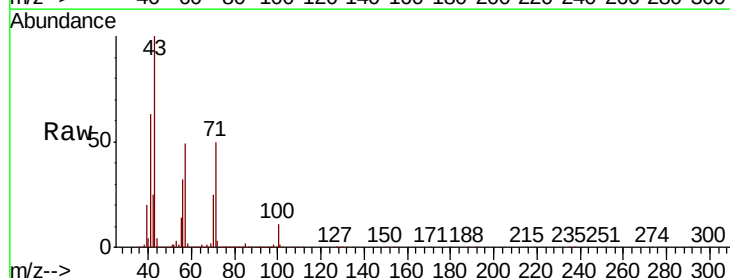
Acq: 20 Aug 2018 17:20

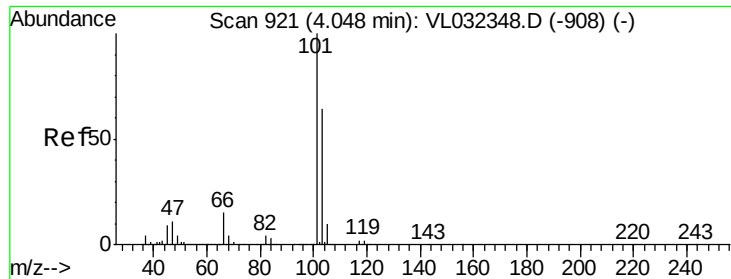
Tgt Ion: 43 Resp: 2639366

Ion Ratio Lower Upper

43 100

57 49.3 39.5 59.3





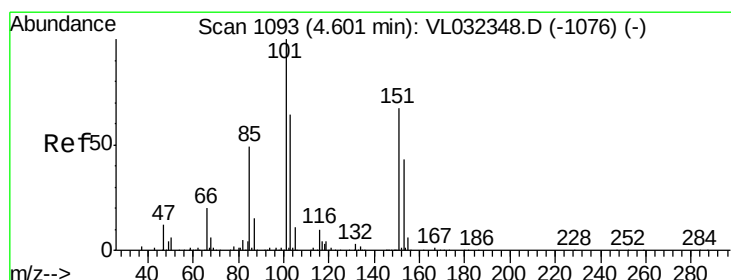
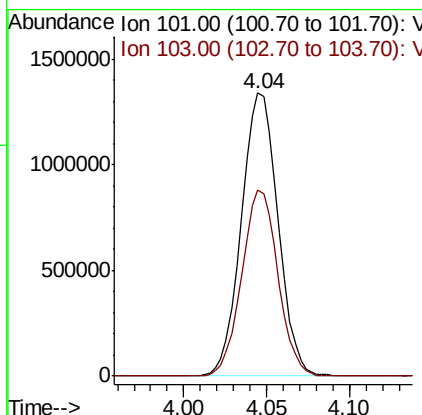
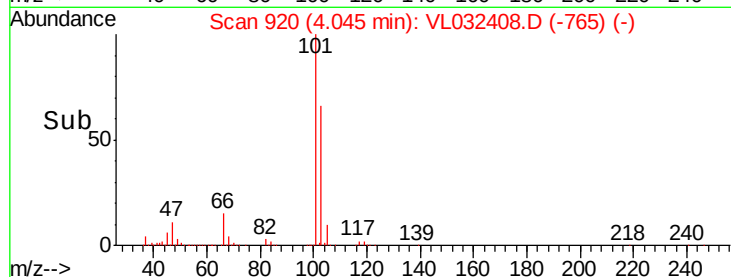
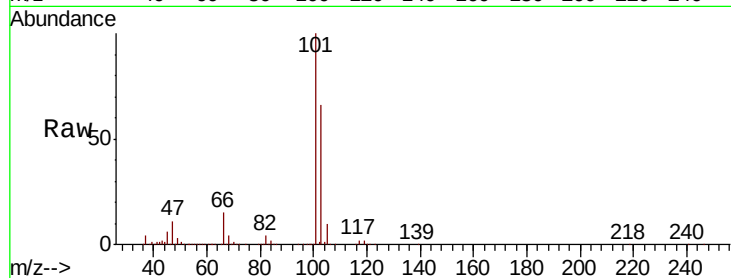
#11
 Trichlorofluoromethane
 Concen: 10.31 ppbv
 RT: 4.04 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0820ABS01

Tot Ion:101 Resp: 2058297
 Ion Ratio Lower Upper
 101 100
 103 65.6 51.4 77.0

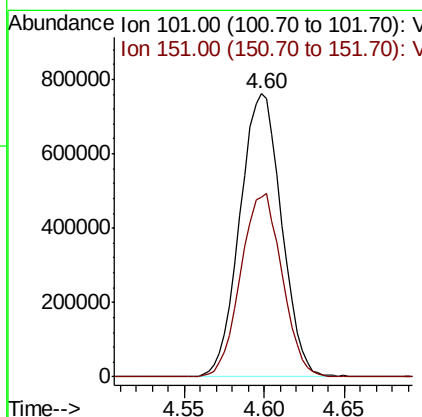
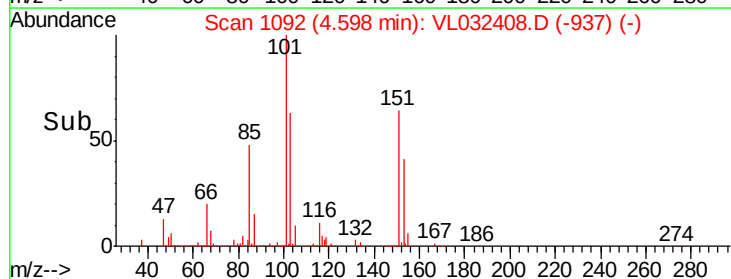
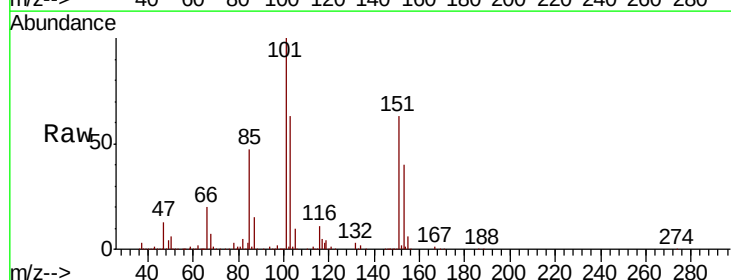
Manual Integrations
 APPROVED

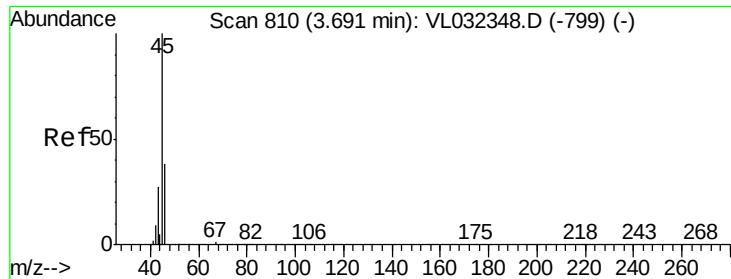
MMDadoda
 8/28/2018 2:53:51 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.05 ppbv
 RT: 4.60 min Scan# 1092
 Delta R.T. -0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Tgt Ion:101 Resp: 1351050
 Ion Ratio Lower Upper
 101 100
 151 64.5 53.1 79.7





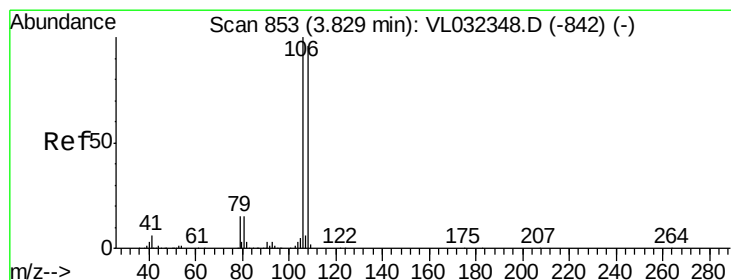
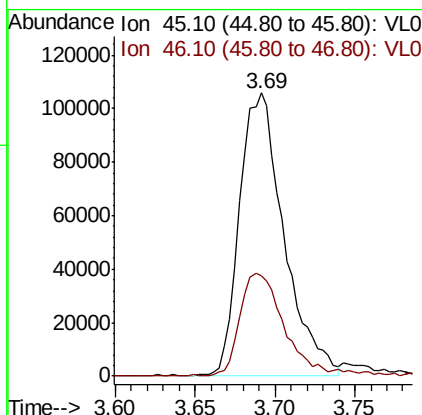
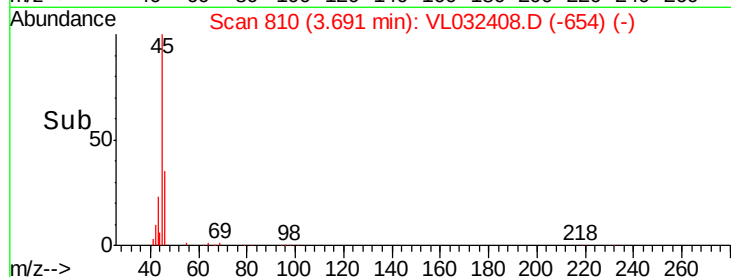
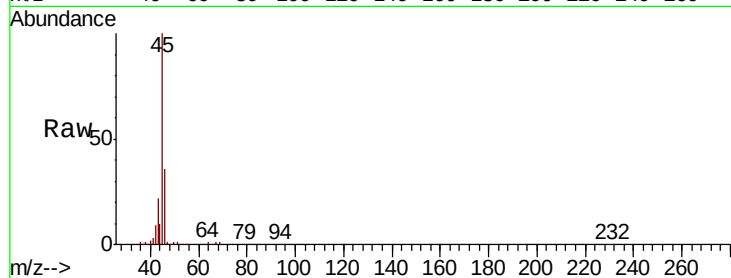
#13
Ethanol
Concen: 11.05 ppbv
RT: 3.69 min Scan# 810
Delta R.T. 0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Instrument :
MSVOA_L
ClientSampleId :
VL0820ABS01

Tot Ion	45	46	Ratio	Lower	Upper
200900	100	37.4		15.6	62.4

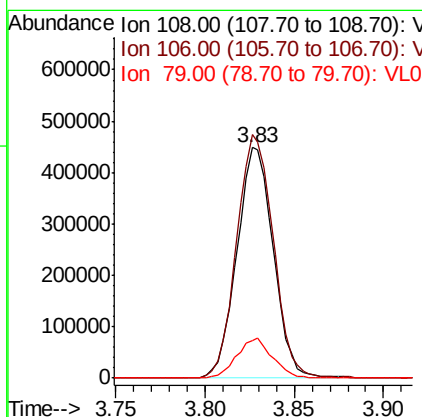
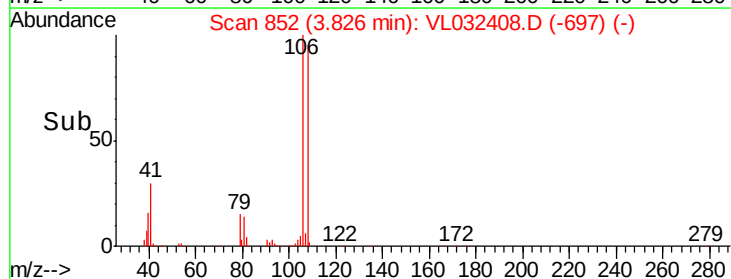
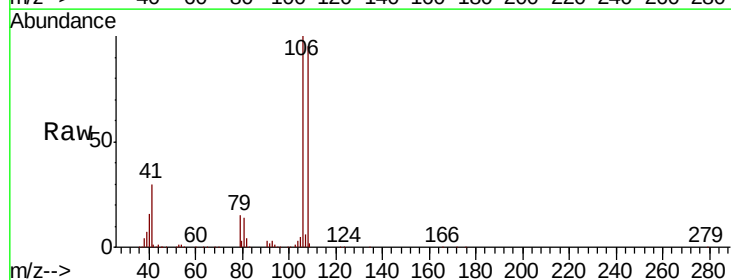
Manual Integrations
APPROVED

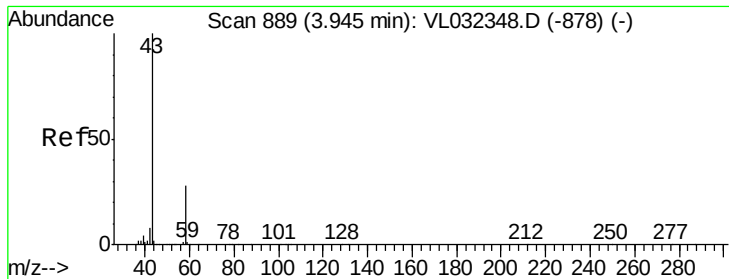
MMDadoda
8/28/2018 2:53:51 PM



#14
Bromoethene
Concen: 10.98 ppbv
RT: 3.83 min Scan# 852
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Tgt Ion	108	106	79	Ratio	Lower	Upper
638464	100	106.6	17.4		85.7	128.5





#15

Acetone

Concen: 9.62 ppbv

RT: 3.94 min Scan# 888

Delta R.T. -0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

ClientSampleId :

VL0820ABS01

Tot Ion: 43 Resp: 1631369

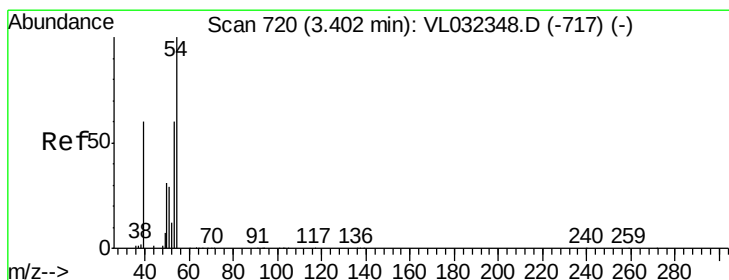
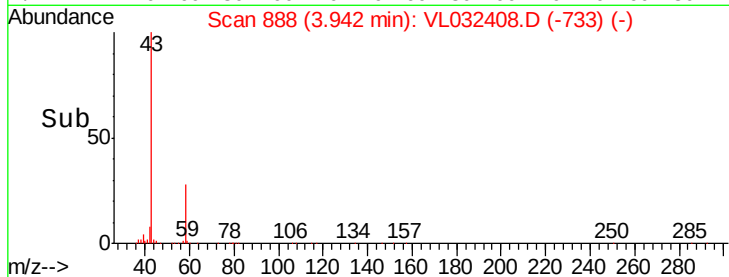
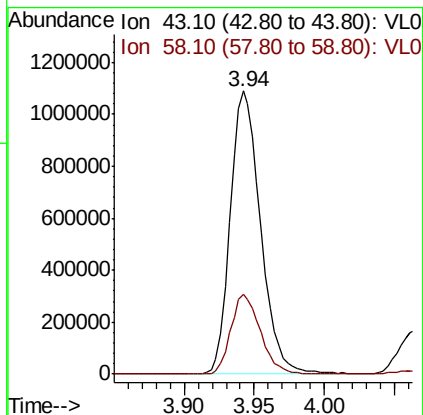
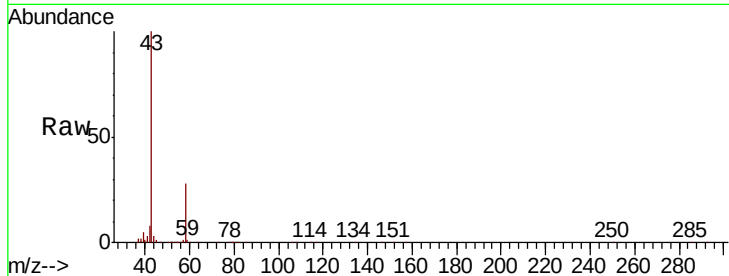
Ion Ratio Lower Upper

43 100

58 27.8 22.4 33.6

Manual Integrations
APPROVED

MMDadoda
8/28/2018 2:53:51 PM



#16

1,3-Butadiene

Concen: 10.41 ppbv

RT: 3.40 min Scan# 719

Delta R.T. -0.00 min

Lab File: VL032408.D

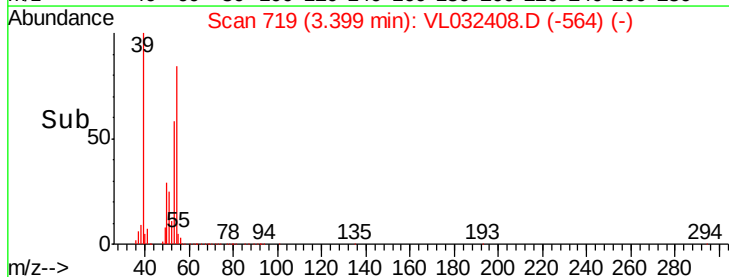
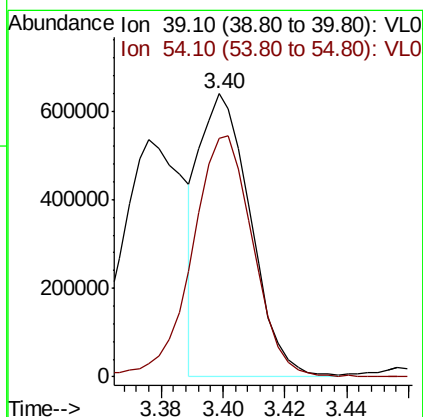
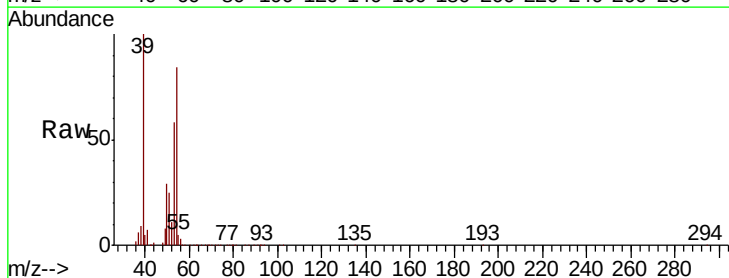
Acq: 20 Aug 2018 17:20

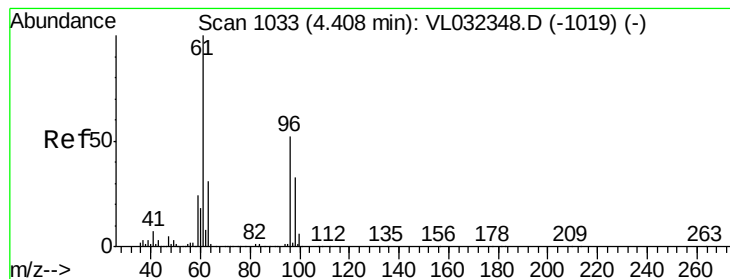
Tgt Ion: 39 Resp: 729333

Ion Ratio Lower Upper

39 100

54 102.9 85.5 128.3





#17

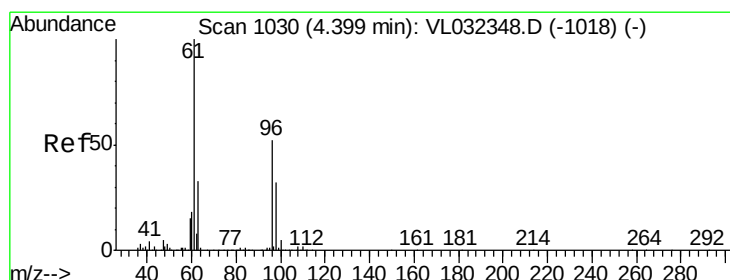
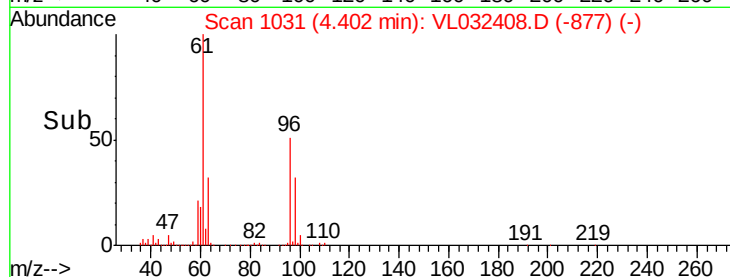
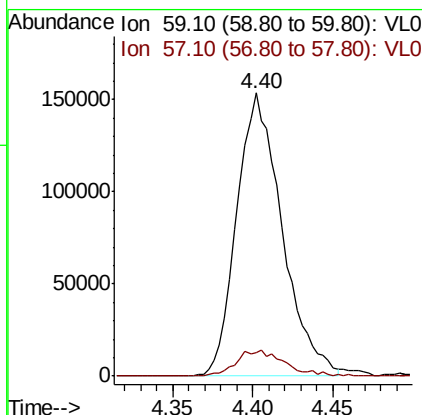
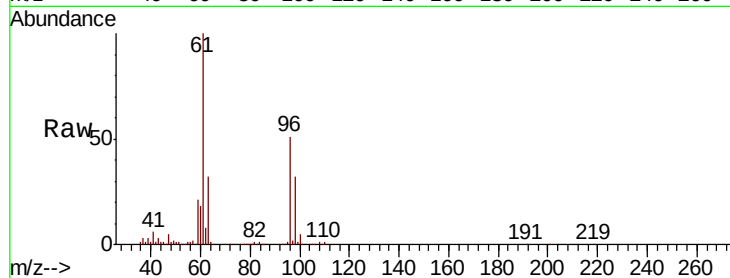
tert-Butyl alcohol
Concen: 10.47 ppbv
RT: 4.40 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Instrument :
MSVOA_L
ClientSampleId :
VL0820ABS01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	298013		
57	9.8	7.6	11.4	

Manual Integrations
APPROVED

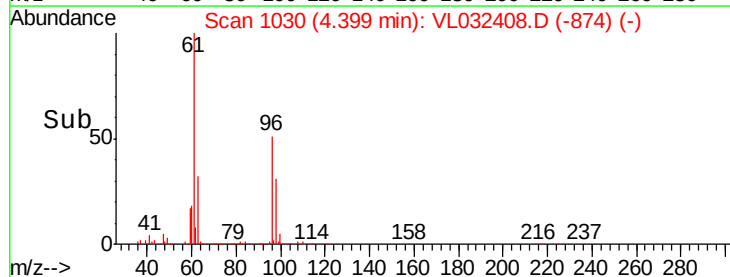
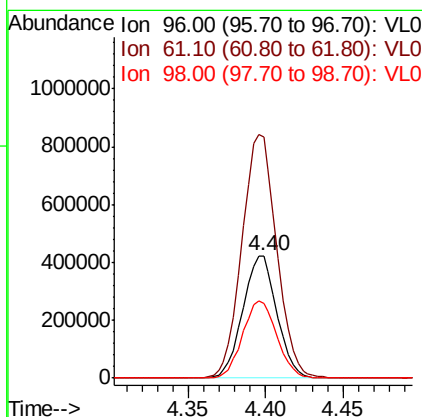
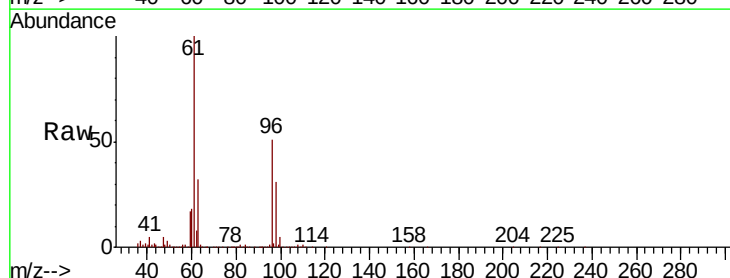
MMDadoda
8/28/2018 2:53:51 PM

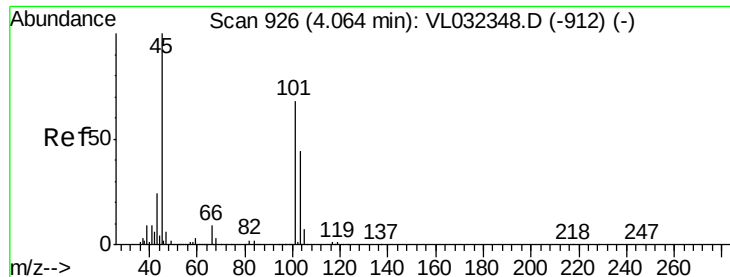


#18

1,1-Dichloroethene
Concen: 10.33 ppbv
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	647511		
61	196.9	154.6	231.8	
98	60.8	50.1	75.1	





#19

Isopropyl Alcohol

Concen: 11.00 ppbv

RT: 4.06 min Scan# 926

Delta R.T. 0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

ClientSampleId :

VL0820ABS01

Tot Ion: 45 Resp: 1256266

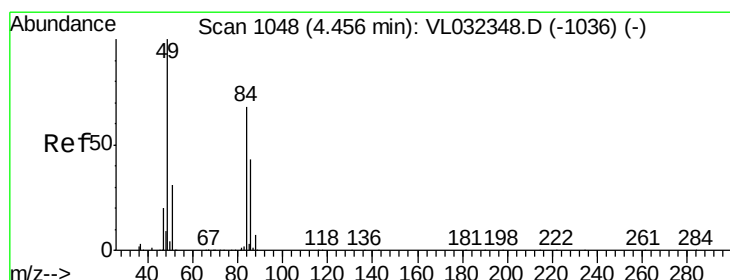
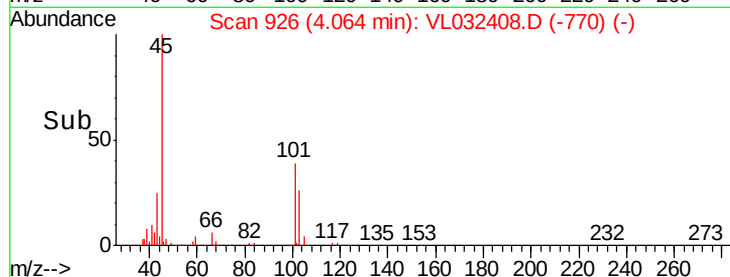
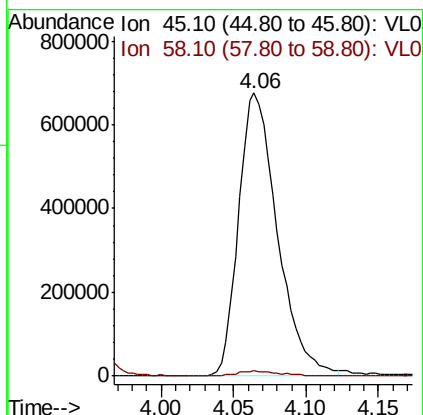
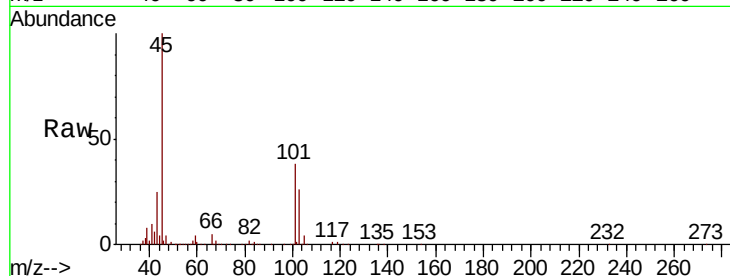
Ion Ratio Lower Upper

45 100

58 2.3 1.4 2.0#

Manual Integrations
APPROVED

MMDadoda
8/28/2018 2:53:51 PM



#20

Methylene Chloride

Concen: 8.99 ppbv

RT: 4.45 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Tgt Ion: 84 Resp: 576110

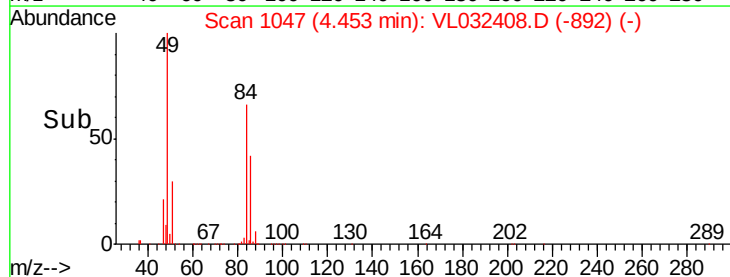
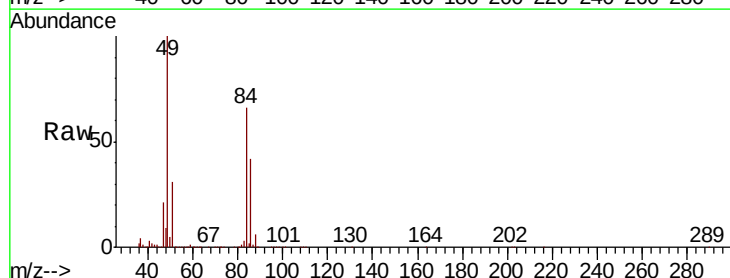
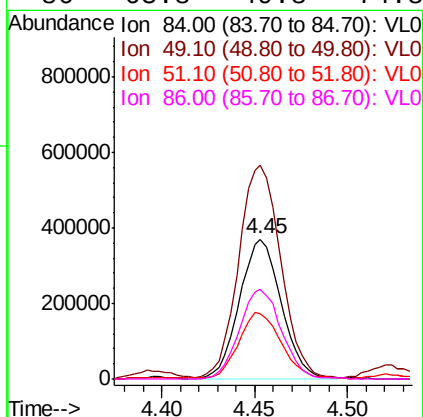
Ion Ratio Lower Upper

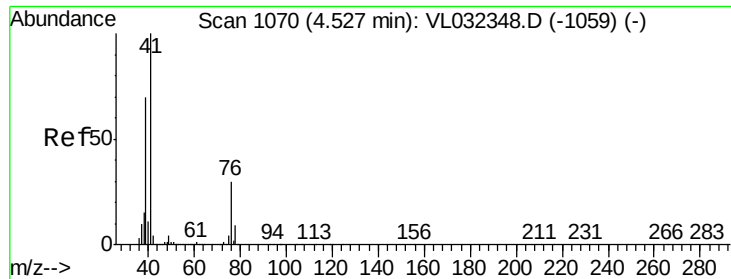
84 100

49 151.7 117.3 175.9

51 46.1 36.6 55.0

86 63.8 49.8 74.8





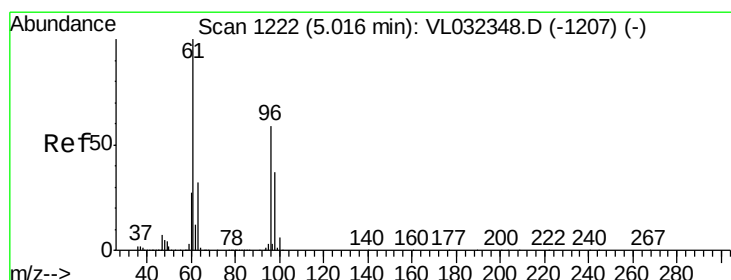
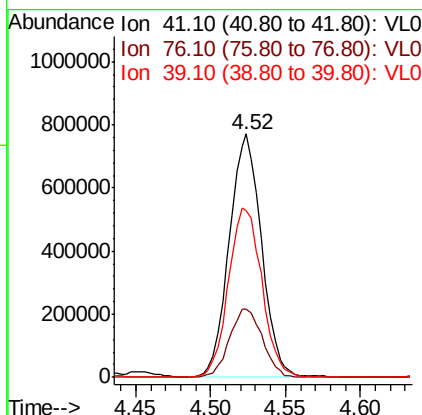
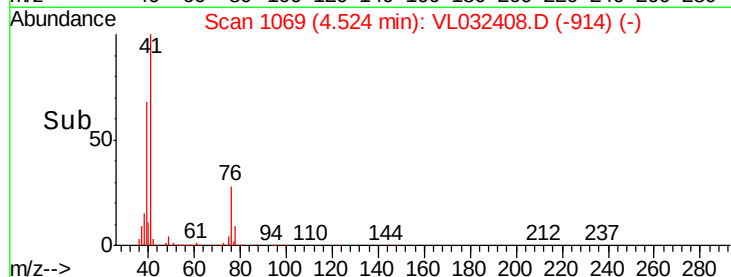
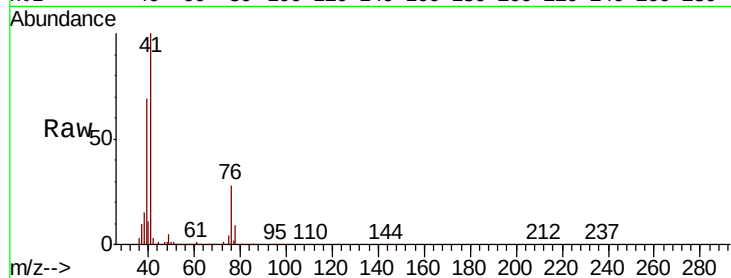
#21
Allvl Chloride
Concen: 10.77 ppbv
RT: 4.52 min Scan# 1069
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Instrument :
MSVOA_L
ClientSampleId :
VL0820ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.9	22.9	34.3
39	72.6	57.6	86.4

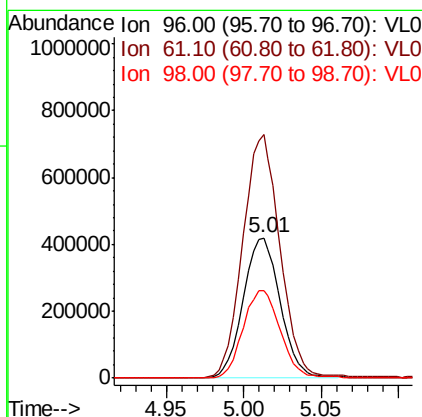
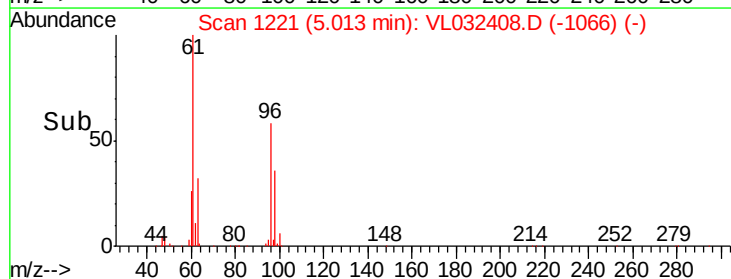
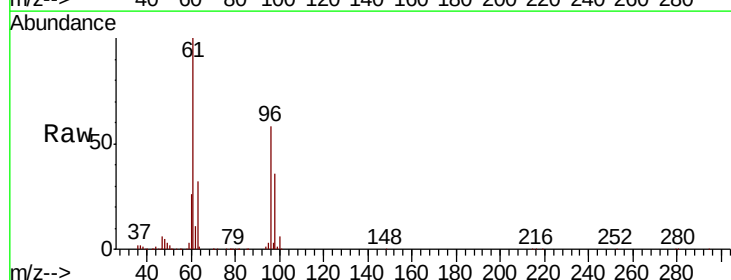
Manual Integrations
APPROVED

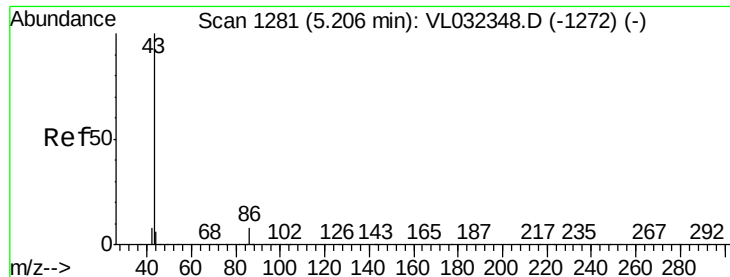
MMDadoda
8/28/2018 2:53:51 PM



#22
trans-1,2-Dichloroethene
Concen: 11.09 ppbv
RT: 5.01 min Scan# 1221
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Tgt Ion	Ratio	Lower	Upper
96	100		
61	173.4	136.6	205.0
98	62.1	50.6	76.0





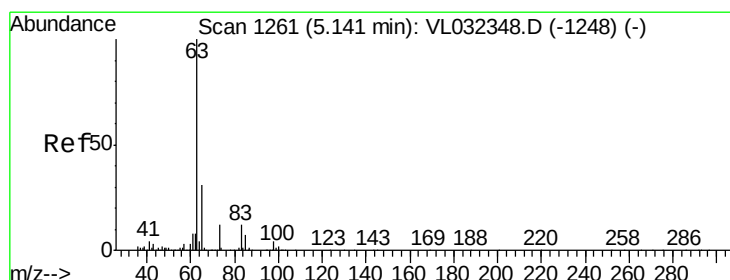
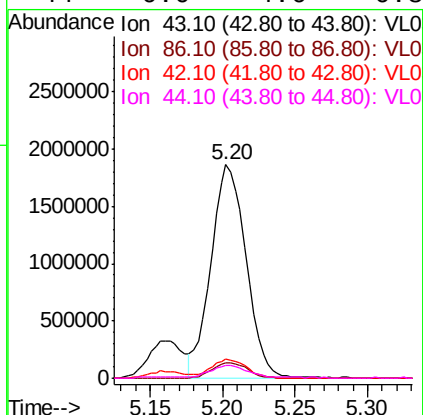
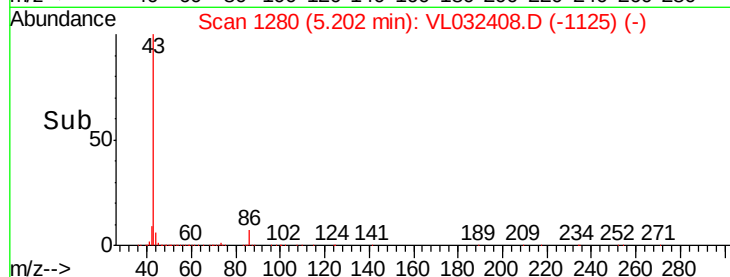
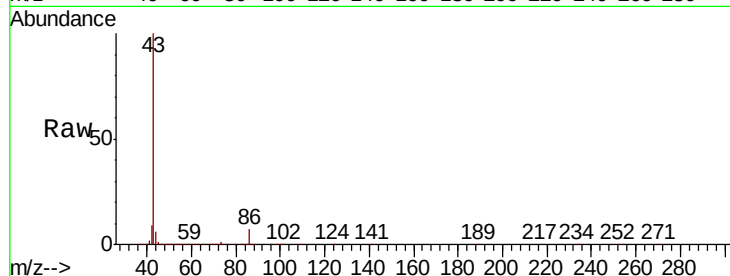
#23
 Vinyl Acetate
 Concen: 10.69 ppbv
 RT: 5.20 min Scan# 1280
 Delta R.T. -0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0820ABS01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.0	5.5	8.3	
42	9.1	7.0	10.6	
44	6.0	4.6	6.8	

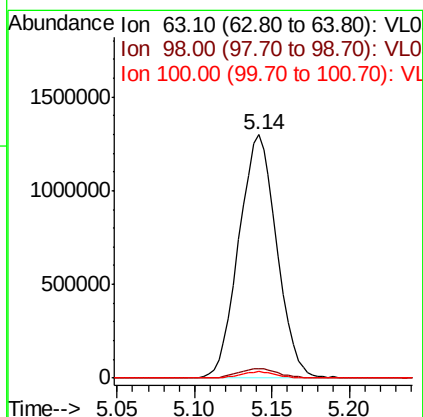
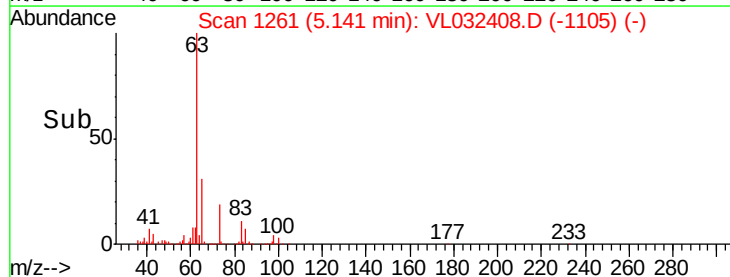
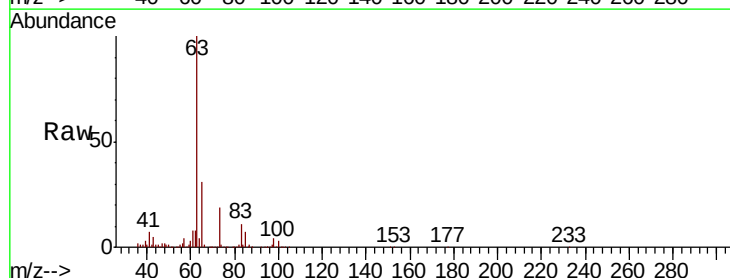
Manual Integrations
 APPROVED

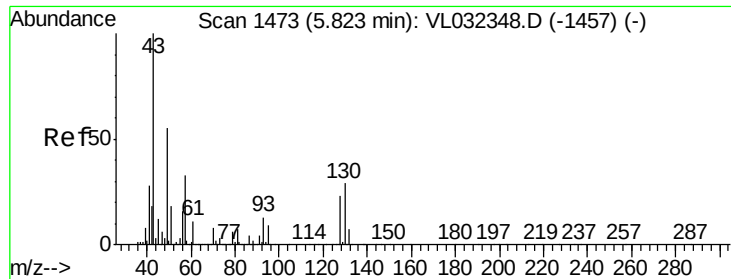
MMDadoda
 8/28/2018 2:53:51 PM



#24
 1,1-Dichloroethane
 Concen: 10.43 ppbv
 RT: 5.14 min Scan# 1261
 Delta R.T. 0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	3.9	2.1	6.3	
100	2.7	1.2	3.6	





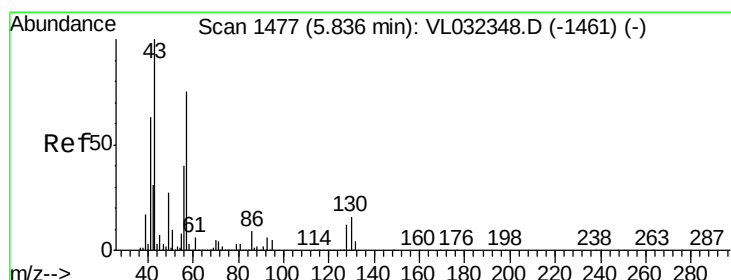
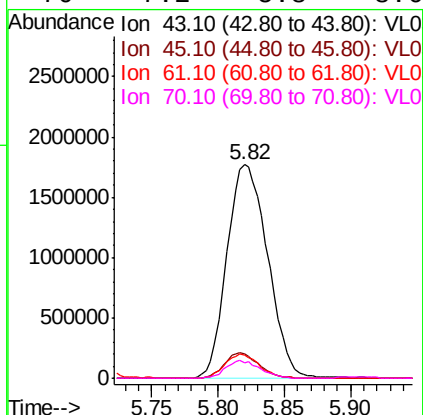
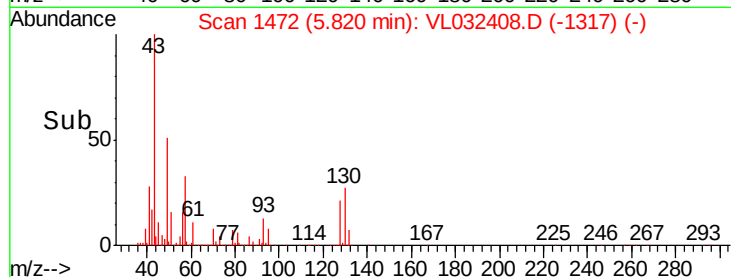
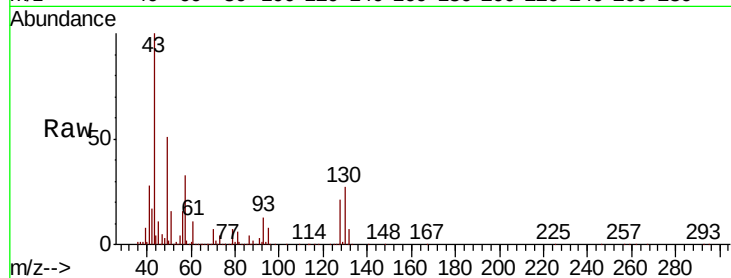
#25
Ethyl Acetate
Concen: 10.36 ppbv
RT: 5.82 min Scan# 1472
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Instrument :
MSVOA_L
ClientSampleID :
VL0820ABS01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.2	7.9	11.9	
61	9.6	7.4	11.2	
70	7.2	5.8	8.6	

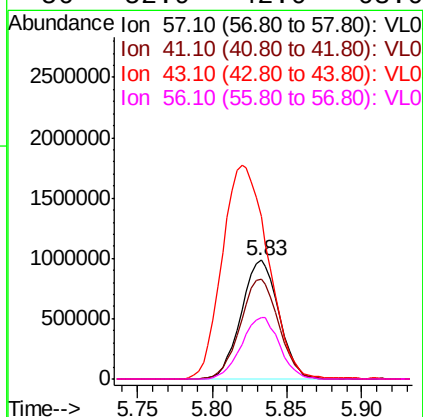
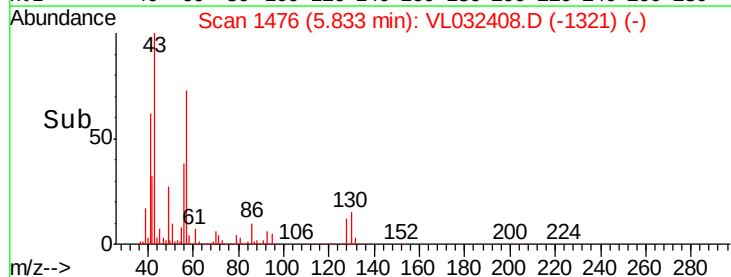
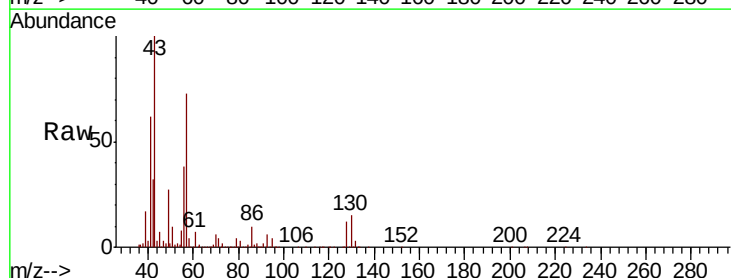
Manual Integrations
APPROVED

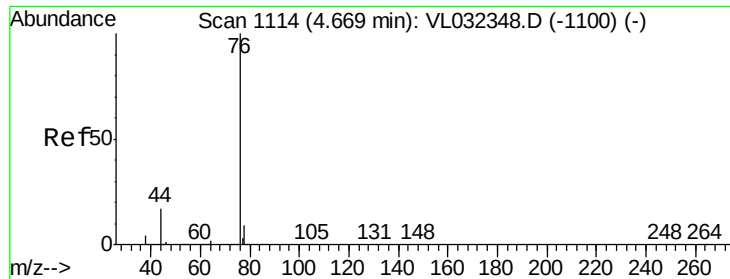
MMDadoda
8/28/2018 2:53:51 PM



#26
Hexane
Concen: 10.62 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	86.2	68.0	102.0	
43	220.0	175.3	262.9	
56	52.9	42.0	63.0	





#27

Carbon Disulfide

Concen: 11.31 ppbv

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

ClientSampleId :

VL0820ABS01

Tot Ion: 76 Resp: 1711173

Ion Ratio Lower Upper

76 100

44 17.7 14.4 21.6

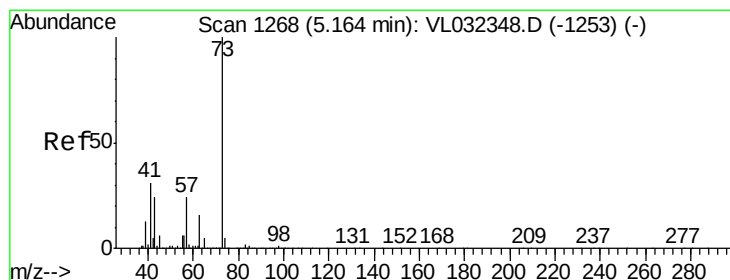
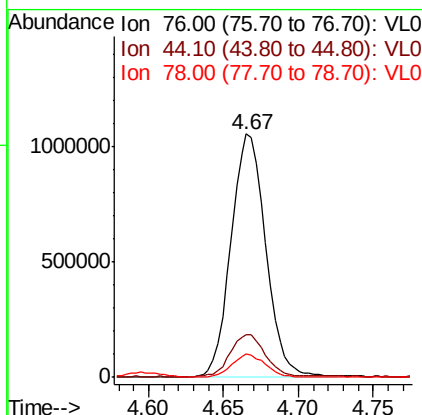
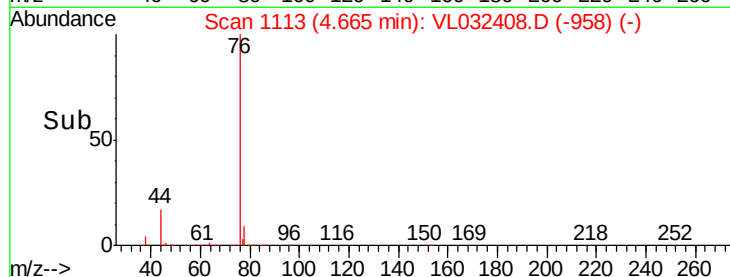
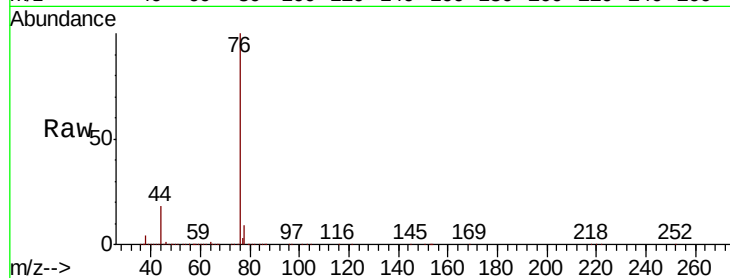
78 9.3 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

8/28/2018 2:53:51 PM



#28

Methyl tert-Butyl Ether

Concen: 11.09 ppbv

RT: 5.16 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VL032408.D

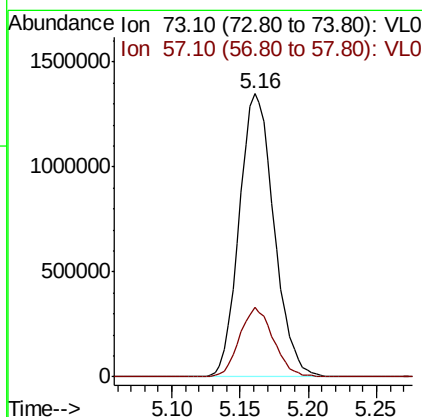
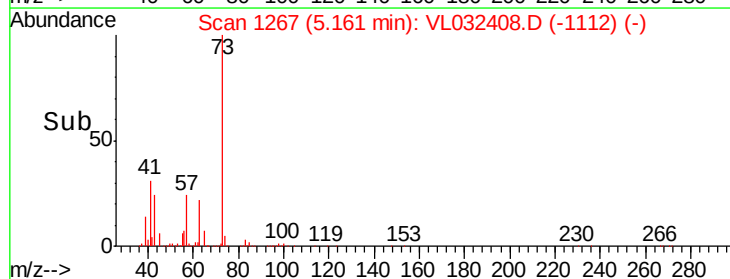
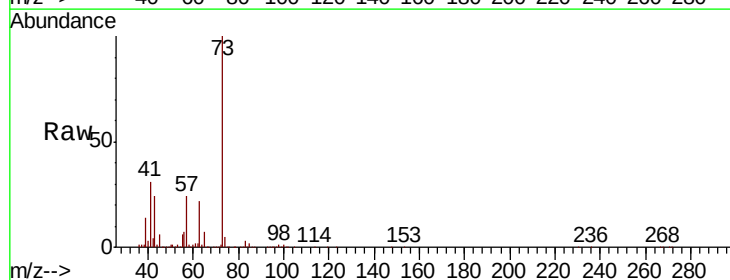
Acq: 20 Aug 2018 17:20

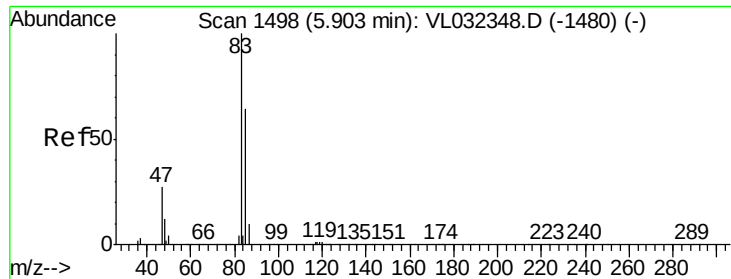
Tgt Ion: 73 Resp: 2386134

Ion Ratio Lower Upper

73 100

57 24.1 19.3 28.9





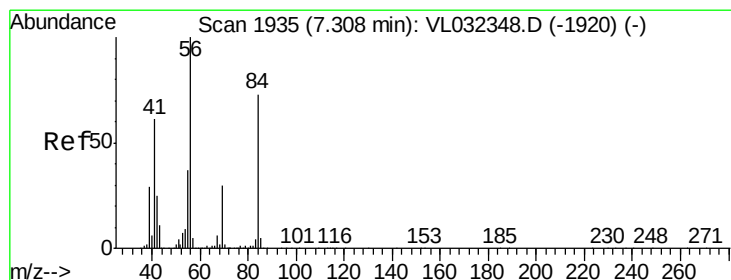
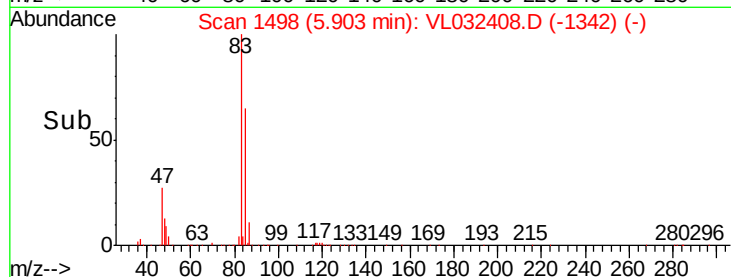
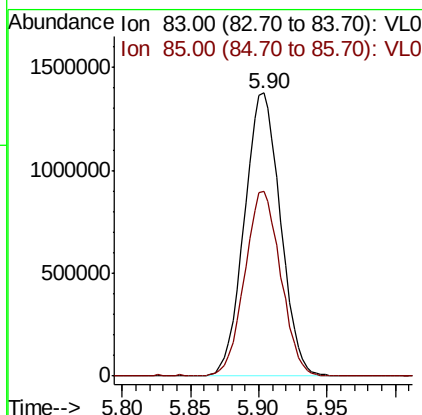
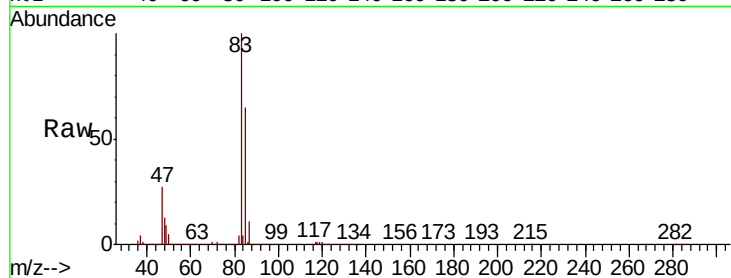
#29
Chloroform
Concen: 10.66 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. 0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Instrument :
MSVOA_L
ClientSampleId :
VL0820ABS01

Tot Ion: 83 Resp: 2531909
Ion Ratio Lower Upper
83 100
85 65.1 51.6 77.4

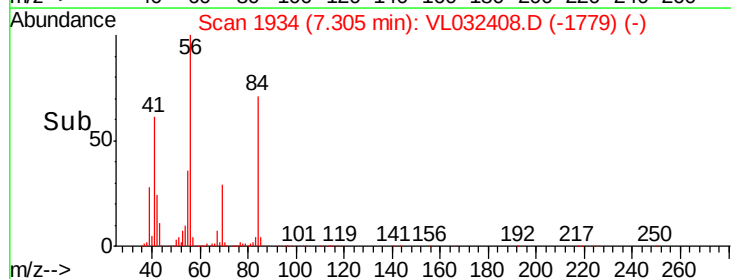
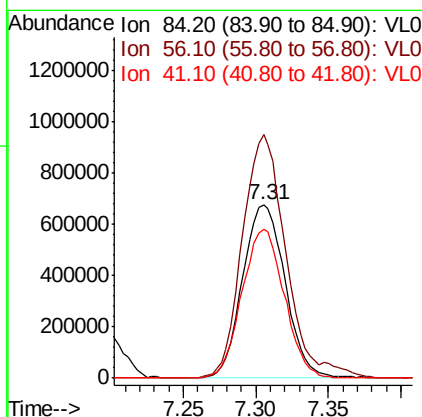
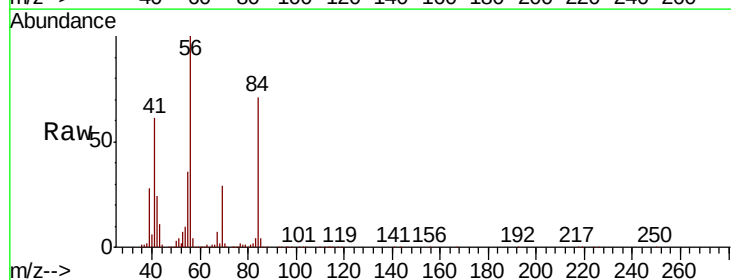
Manual Integrations
APPROVED

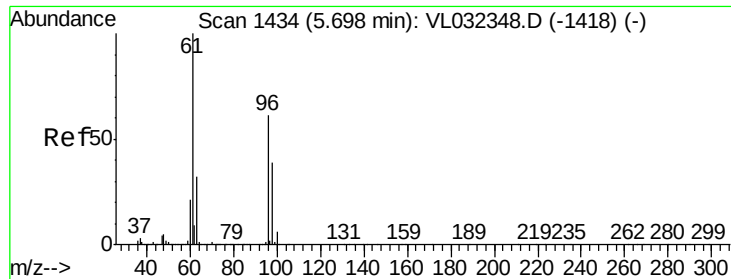
MMDadoda
8/28/2018 2:53:51 PM



#30
Cyclohexane
Concen: 11.19 ppbv
RT: 7.31 min Scan# 1934
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Tgt Ion: 84 Resp: 1381026
Ion Ratio Lower Upper
84 100
56 144.2 115.7 173.5
41 85.6 67.9 101.9





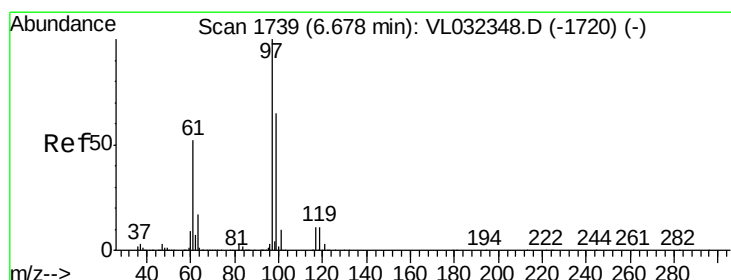
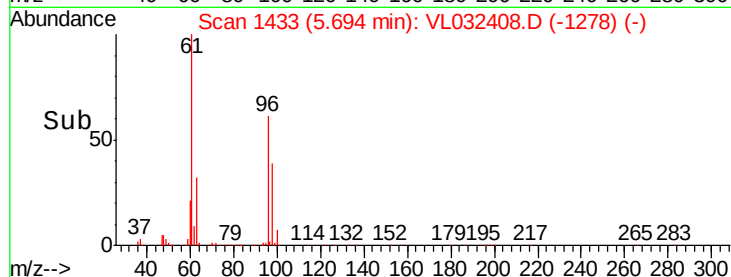
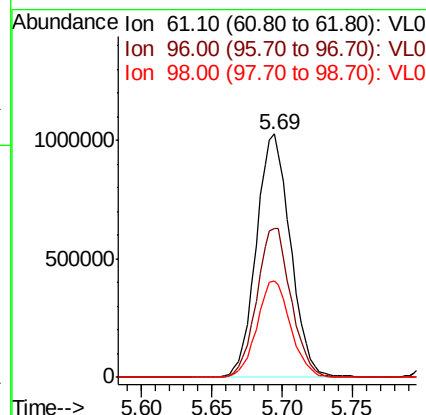
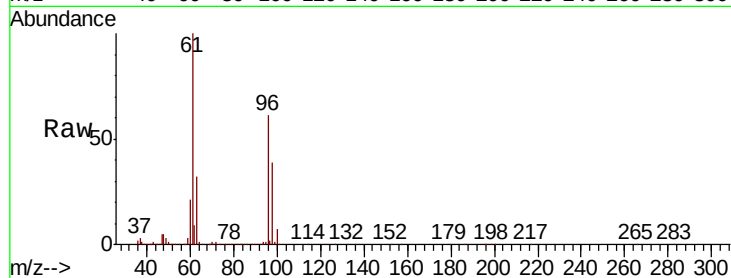
#31
 cis-1,2-Dichloroethene
 Concen: 10.95 ppbv
 RT: 5.69 min Scan# 1433
 Delta R.T. -0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0820ABS01

Tot Ion	61	Resp	1736326
Ion	Ratio	Lower	Upper
61	100		
96	61.2	48.5	72.7
98	39.4	31.0	46.4

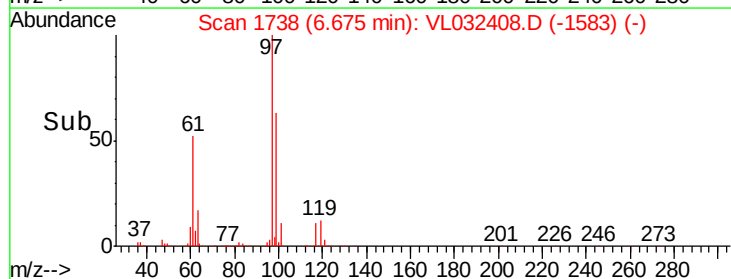
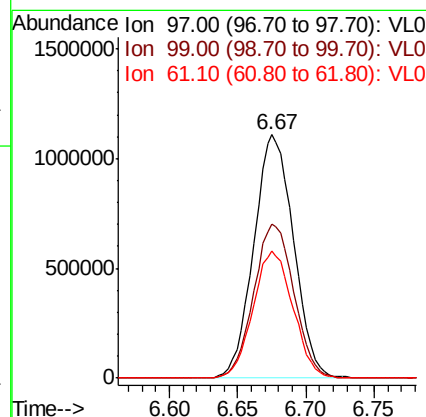
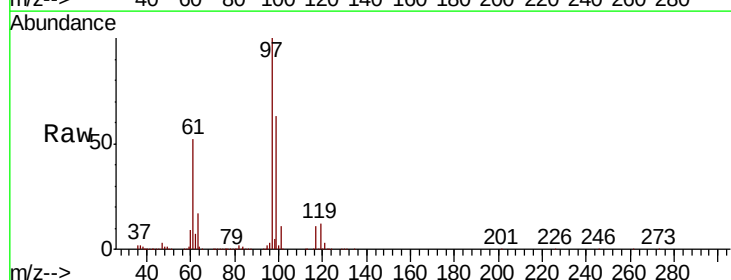
Manual Integrations
 APPROVED

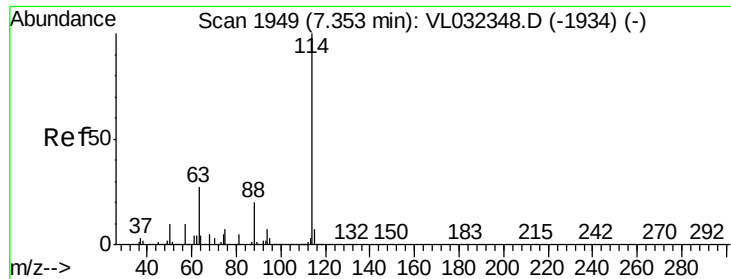
MMDadoda
 8/28/2018 2:53:51 PM



#32
 1,1,1-Trichloroethane
 Concen: 9.72 ppbv
 RT: 6.67 min Scan# 1738
 Delta R.T. -0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Tgt Ion	97	Resp	2246448
Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.1	76.7
61	52.3	41.1	61.7





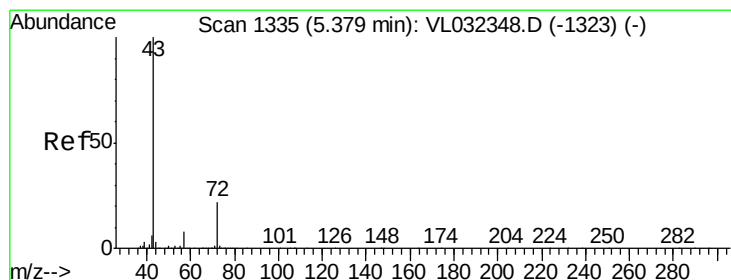
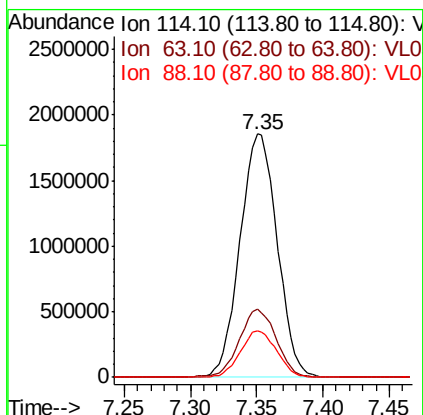
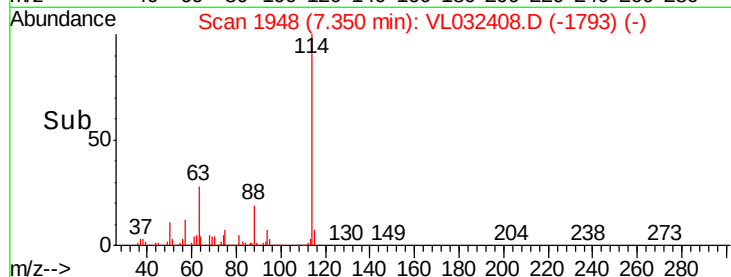
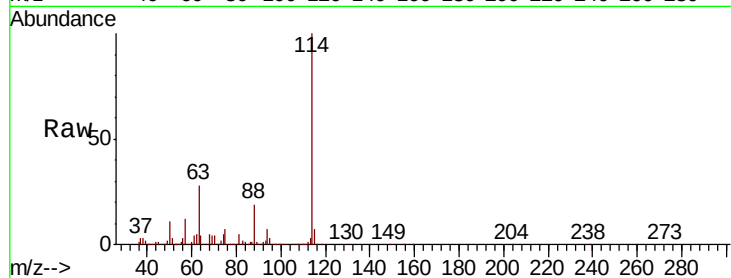
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.35 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0820ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.0	22.0	33.0
88	18.7	15.3	22.9

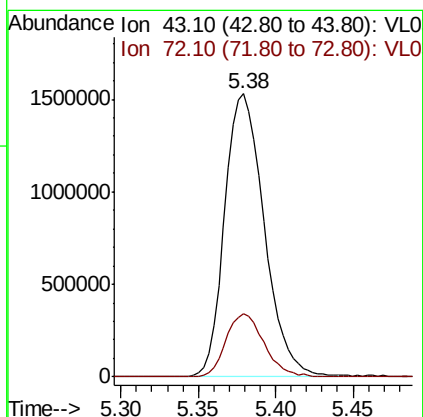
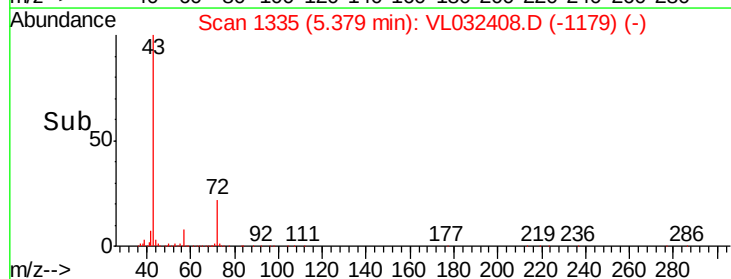
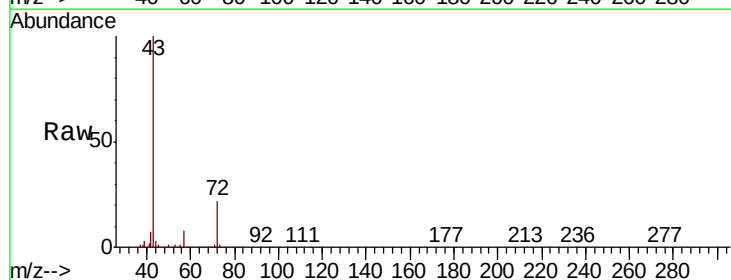
Manual Integrations
 APPROVED

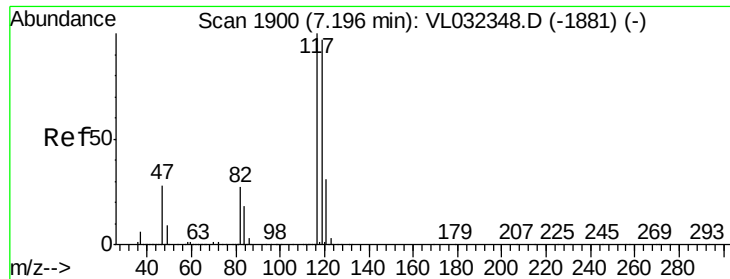
MMDadoda
 8/28/2018 2:53:51 PM



#34
 2-Butanone
 Concen: 10.95 ppbv
 RT: 5.38 min Scan# 1335
 Delta R.T. 0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.7	17.9	26.9





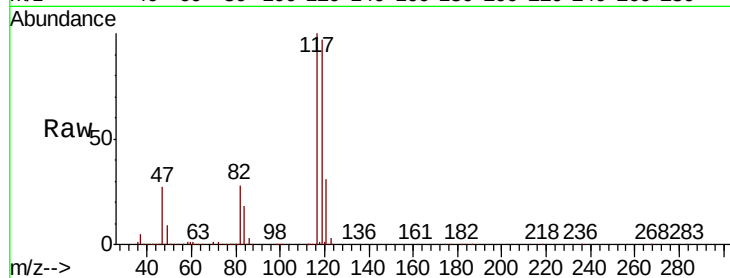
#35
Carbon Tetrachloride
Concen: 11.30 ppbv
RT: 7.19 min Scan# 1899
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Instrument :
MSVOA_L
ClientSampleId :
VL0820ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.9	77.2	115.8
121	31.1	25.1	37.7

Manual Integrations
APPROVED

MMDadoda
8/28/2018 2:53:51 PM

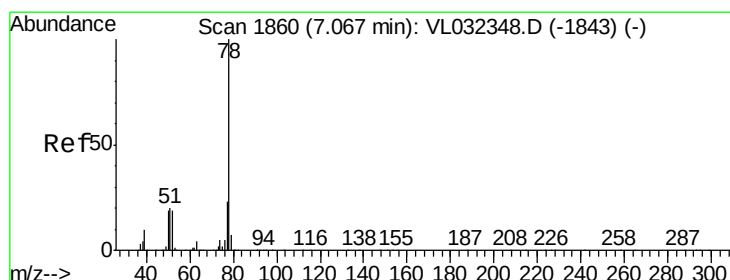
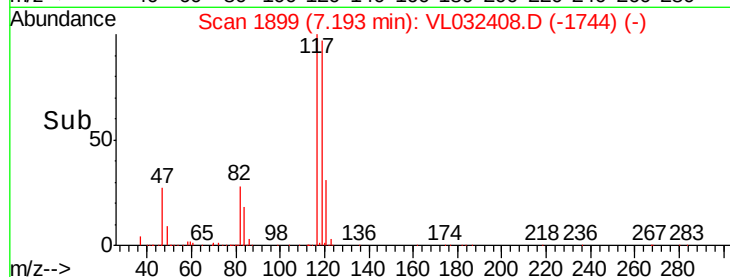
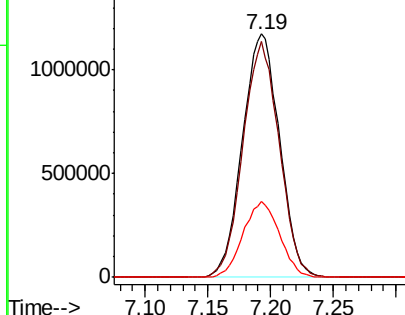


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36
Benzene
Concen: 11.11 ppbv
RT: 7.06 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

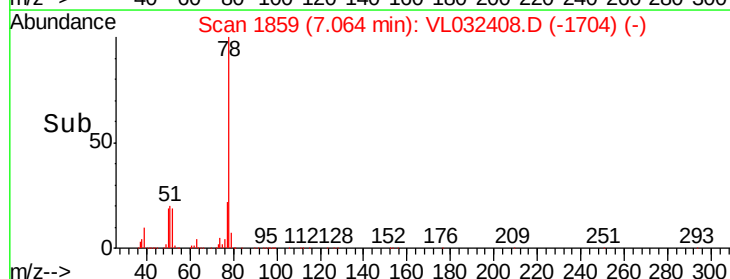
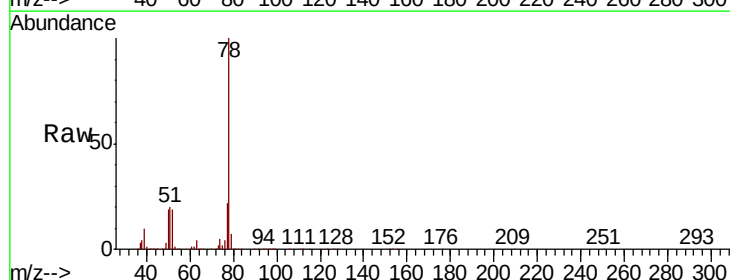
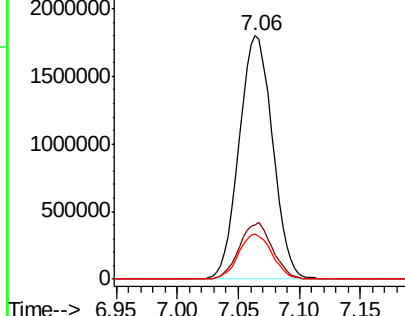
Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.0	18.0	27.0
50	18.6	15.1	22.7

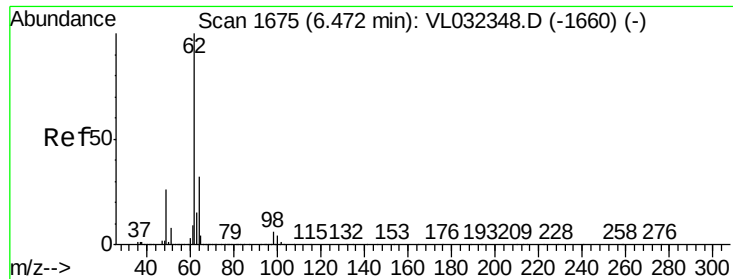
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





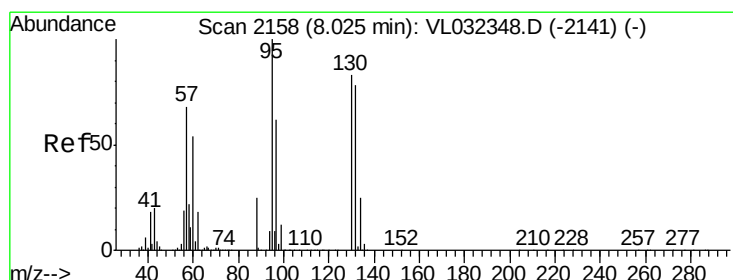
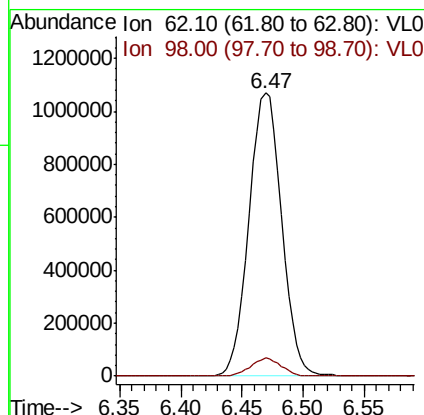
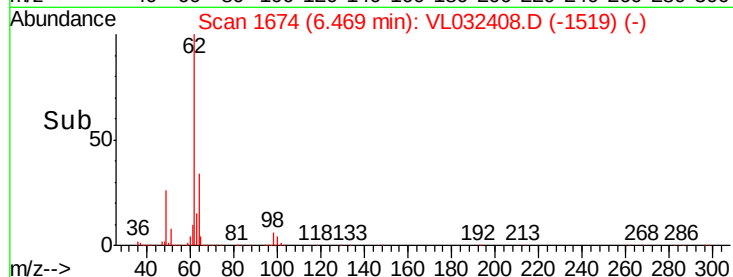
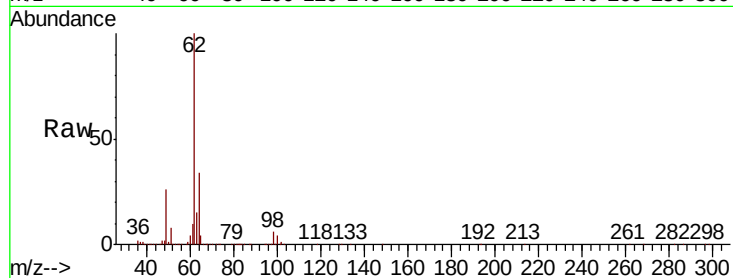
#37
 1,2-Dichloroethane
 Concen: 10.58 ppbv
 RT: 6.47 min Scan# 1674
 Delta R.T. -0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0820ABS01

Tot Ion: 62 Resp: 1971729
 Ion Ratio Lower Upper
 62 100
 98 6.0 5.0 7.6

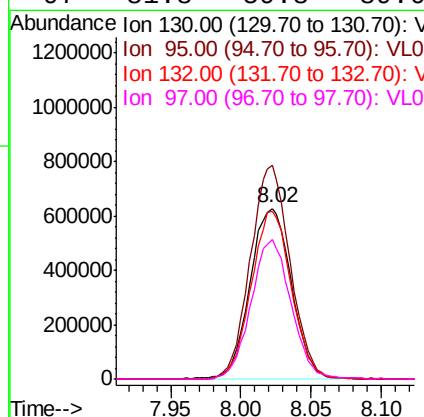
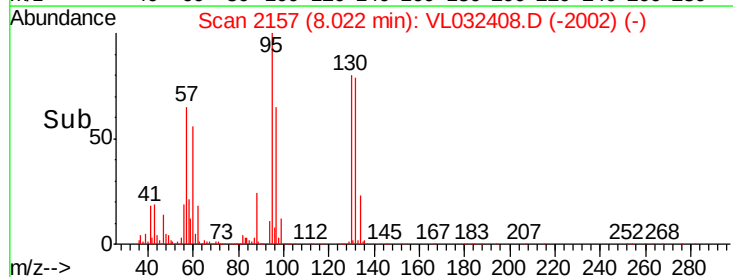
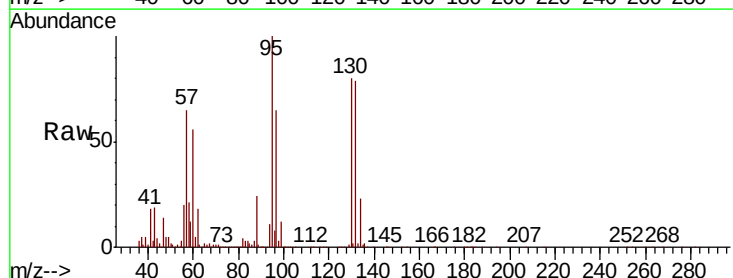
Manual Integrations
 APPROVED

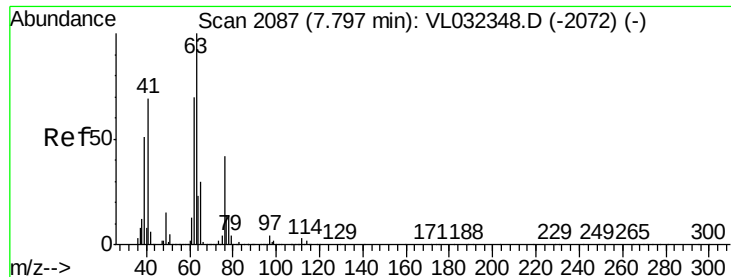
MMDadoda
 8/28/2018 2:53:51 PM



#38
 Trichloroethene
 Concen: 11.85 ppbv
 RT: 8.02 min Scan# 2157
 Delta R.T. -0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Tgt Ion: 130 Resp: 1276911
 Ion Ratio Lower Upper
 130 100
 95 125.3 96.6 144.8
 132 98.7 75.5 113.3
 97 81.8 59.8 89.6





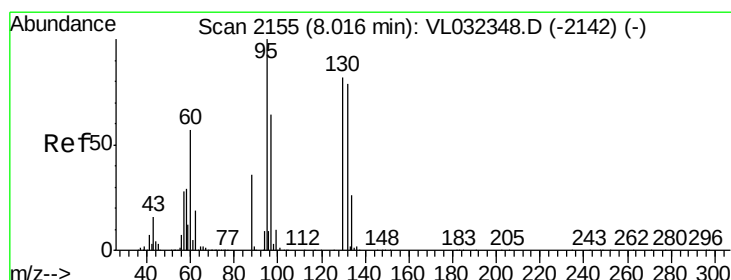
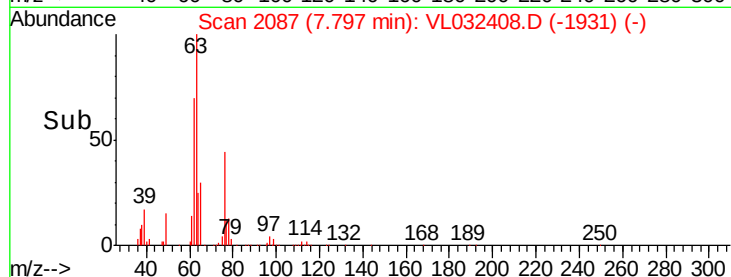
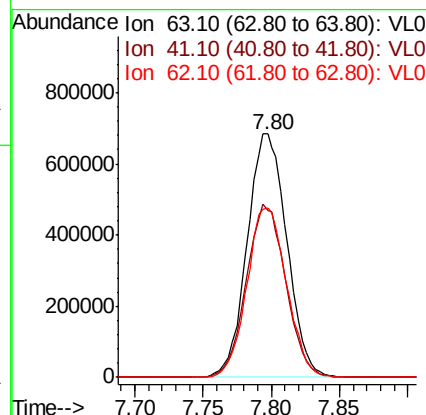
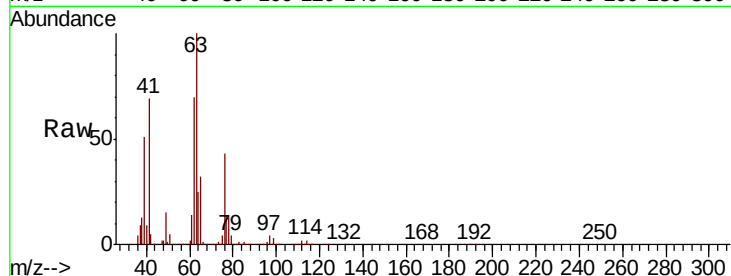
#39
 1,2-Dichloropropane
 Concen: 10.75 ppbv
 RT: 7.80 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0820ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	68.6	55.5	83.3
62	69.6	56.3	84.5

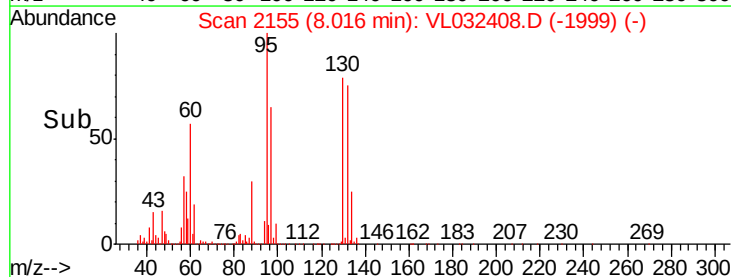
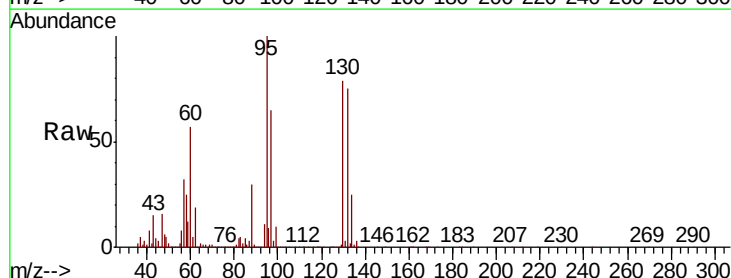
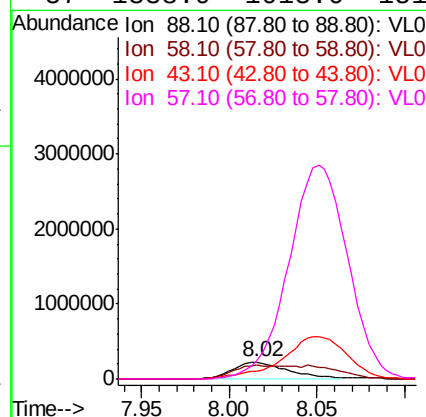
Manual Integrations
 APPROVED

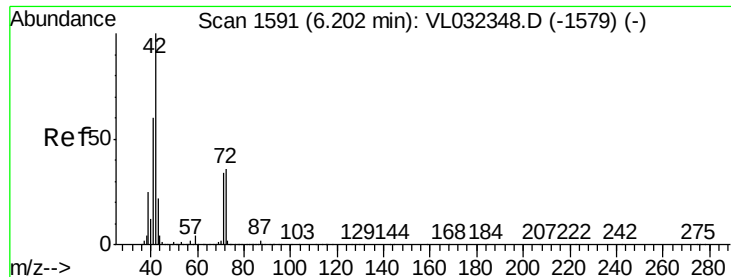
MMDadoda
 8/28/2018 2:53:51 PM



#40
 1,4-Dioxane
 Concen: 12.84 ppbv m
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Tgt Ion	Ratio	Lower	Upper
88	100		
58	145.4	113.7	170.5
43	292.2	224.0	336.0
57	1338.9	1013.0	1519.6





#41

Tetrahydrofuran

Concen: 11.75 ppbv

RT: 6.20 min Scan# 1591

Delta R.T. 0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

ClientSampleId :

VL0820ABS01

Tot Ion: 42 Resp: 1555890

Ion Ratio Lower Upper

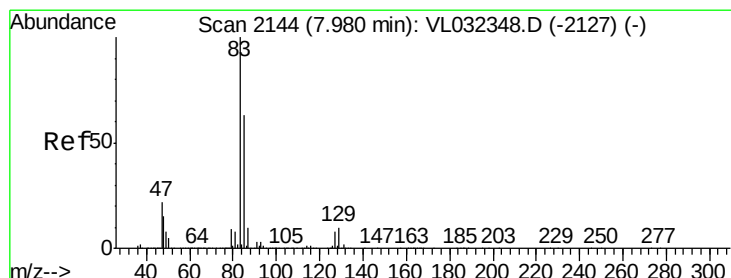
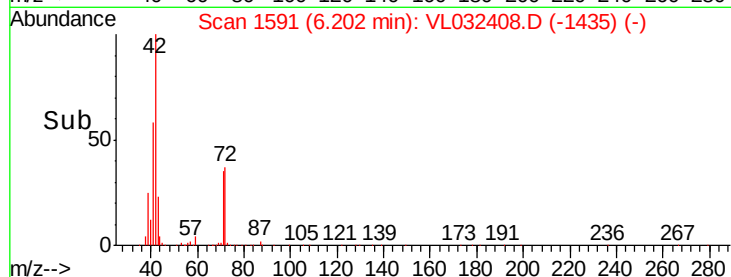
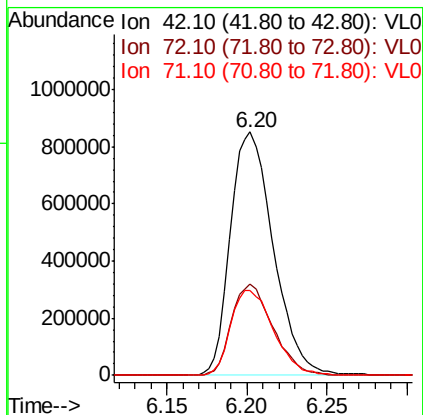
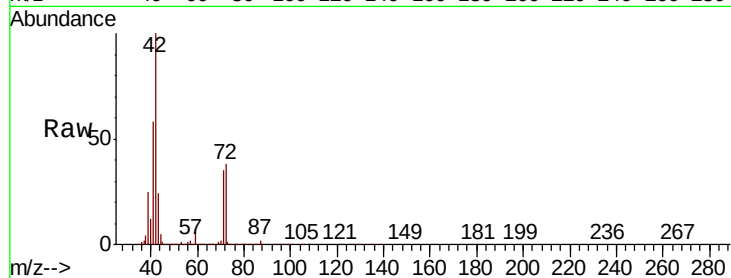
42 100

72 36.7 29.8 44.6

71 35.1 28.2 42.2

Manual Integrations
APPROVED

MMDadoda
8/28/2018 2:53:51 PM



#42

Bromodichloromethane

Concen: 11.97 ppbv

RT: 7.98 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

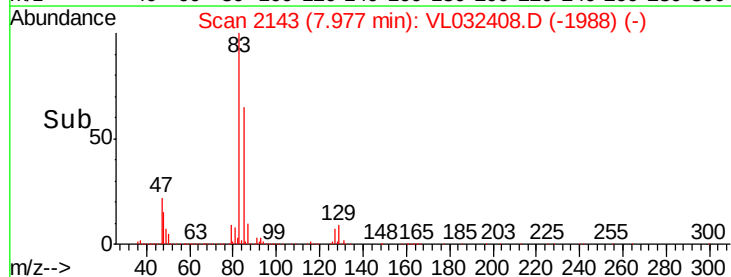
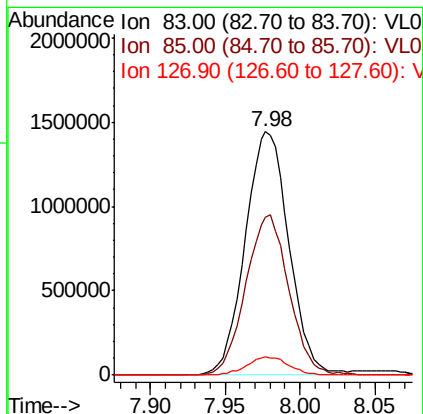
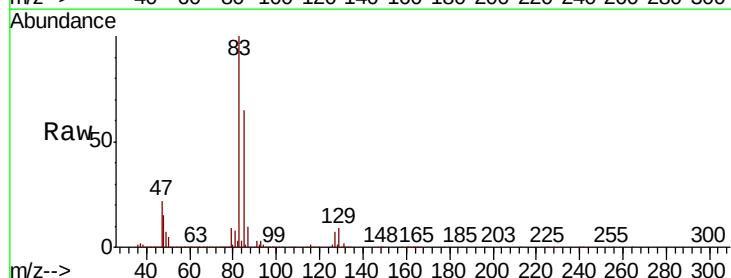
Tgt Ion: 83 Resp: 2921692

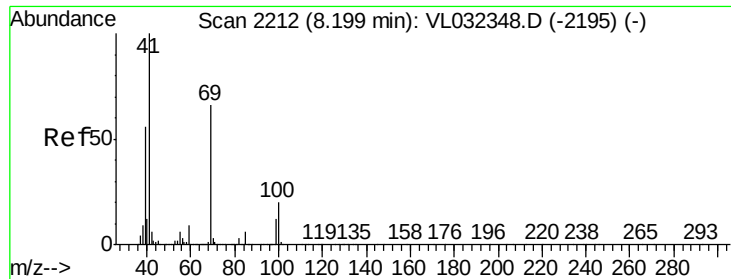
Ion Ratio Lower Upper

83 100

85 65.0 50.4 75.6

127 7.3 6.1 9.1





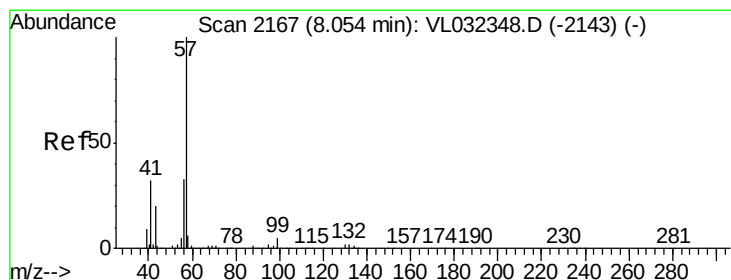
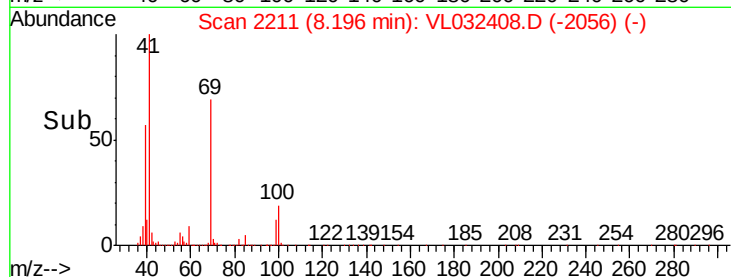
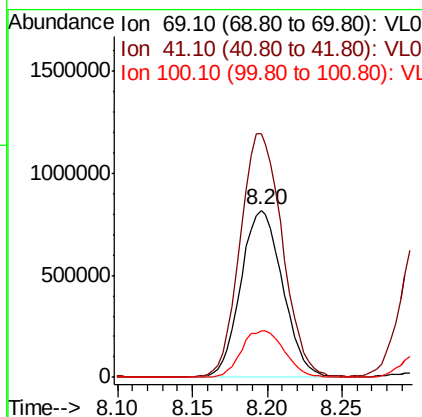
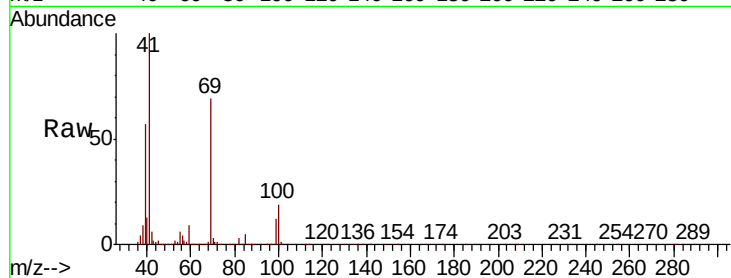
#43
Methyl Methacrylate
Concen: 13.03 ppbv
RT: 8.20 min Scan# 2211
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Instrument :
MSVOA_L
ClientSampleId :
VL0820ABS01

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	147.4	118.6	177.8	
100	29.1	23.4	35.2	

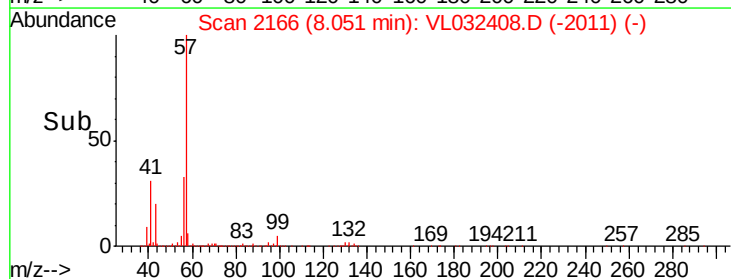
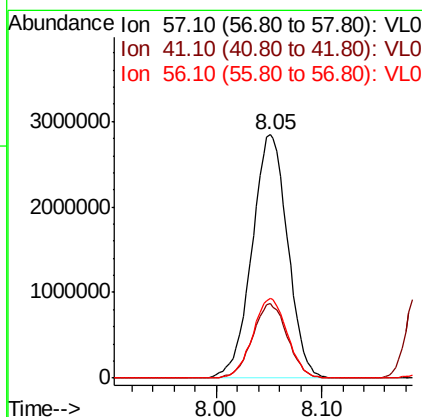
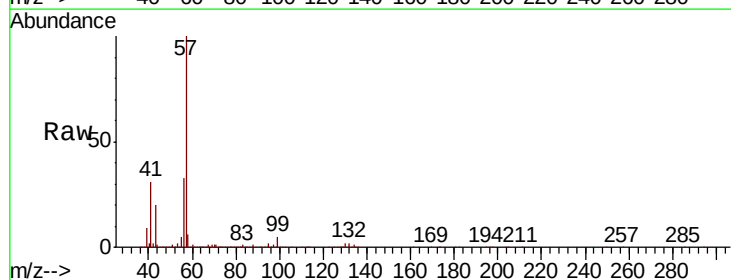
Manual Integrations
APPROVED

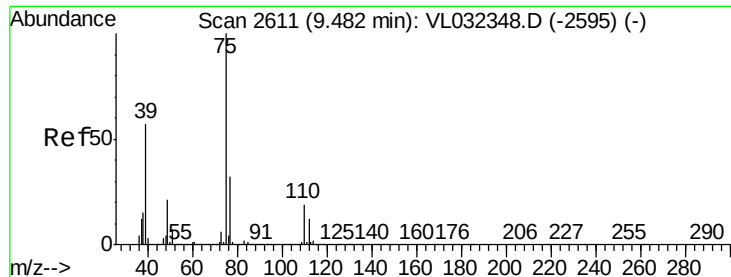
MMDadoda
8/28/2018 2:53:51 PM



#44
2,2,4-Trimethylpentane
Concen: 12.09 ppbv
RT: 8.05 min Scan# 2166
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	30.1	24.3	36.5	
56	31.9	25.7	38.5	





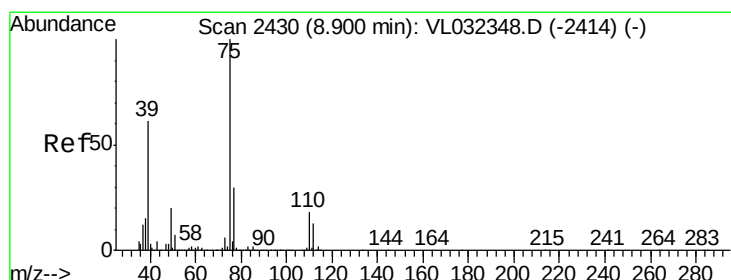
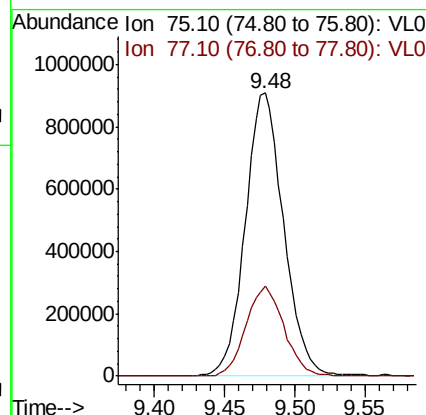
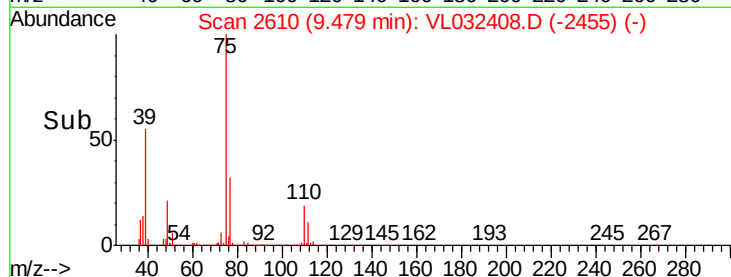
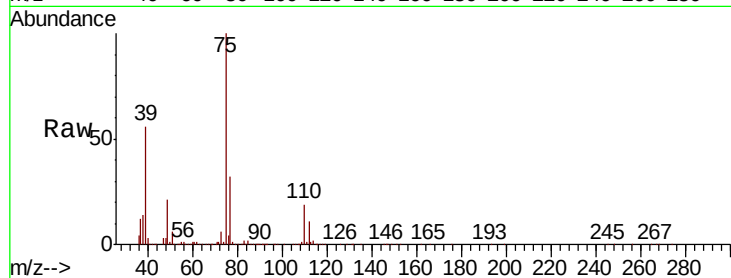
#45
t-1,3-Dichloropropene
Concen: 11.13 ppbv
RT: 9.48 min Scan# 2610
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Instrument :
MSVOA_L
ClientSampleId :
VL0820ABS01

Tot Ion: 75 Resp: 1723689
Ion Ratio Lower Upper
75 100
77 31.7 25.4 38.2

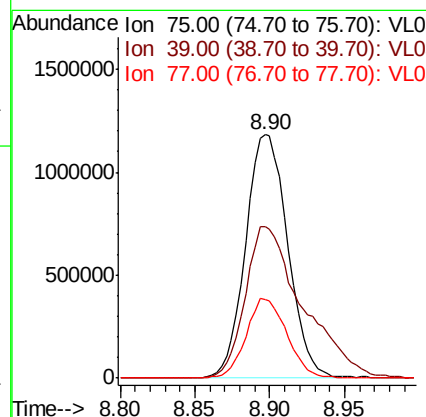
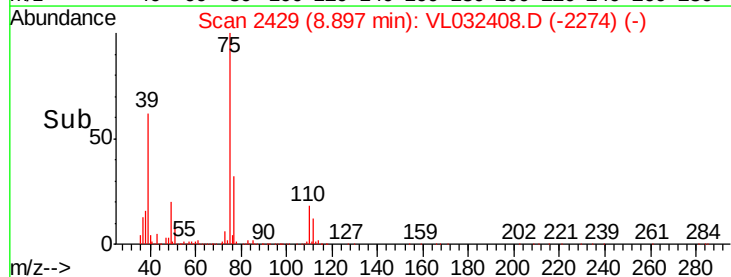
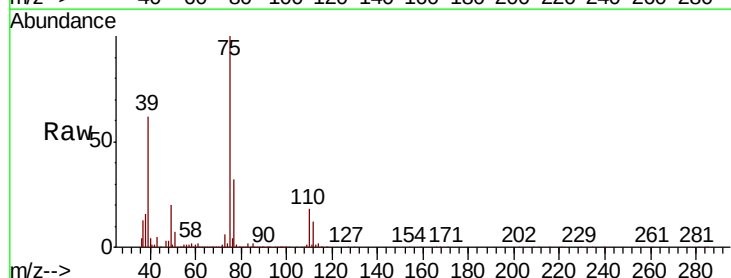
Manual Integrations
APPROVED

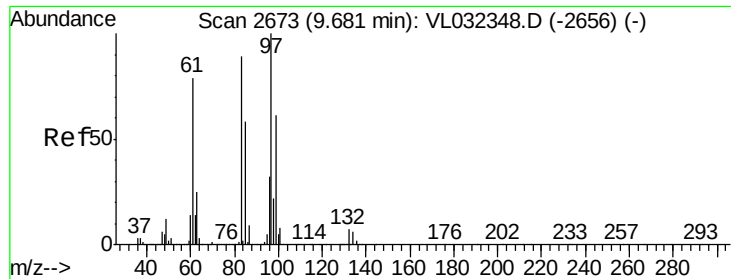
MMDadoda
8/28/2018 2:53:51 PM



#46
cis-1,3-Dichloropropene
Concen: 12.49 ppbv
RT: 8.90 min Scan# 2429
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Tgt Ion: 75 Resp: 2319071
Ion Ratio Lower Upper
75 100
39 62.2 48.5 72.7
77 32.3 24.3 36.5





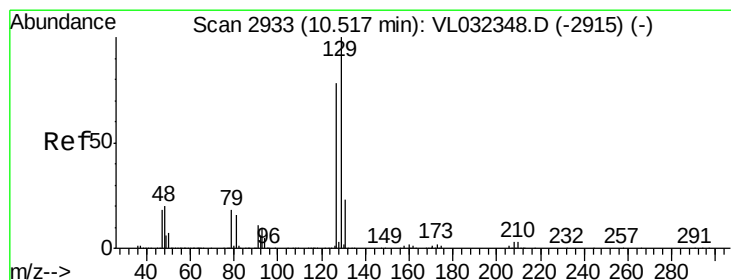
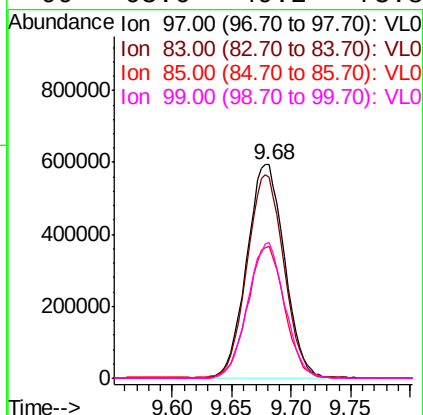
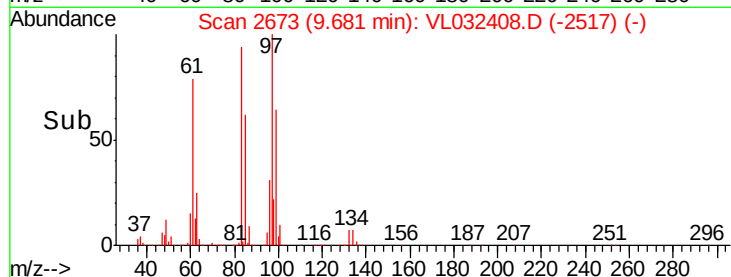
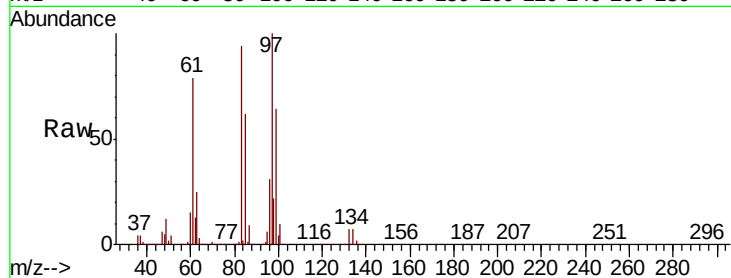
#47
 1,1,2-Trichloroethane
 Concen: 9.24 ppbv
 RT: 9.68 min Scan# 2673
 Delta R.T. 0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0820ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	94.0	71.2	106.8
85	61.5	46.6	69.8
99	63.6	49.2	73.8

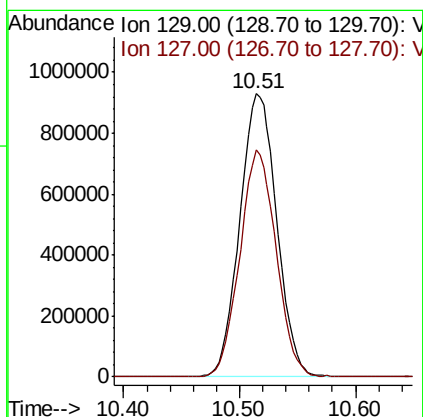
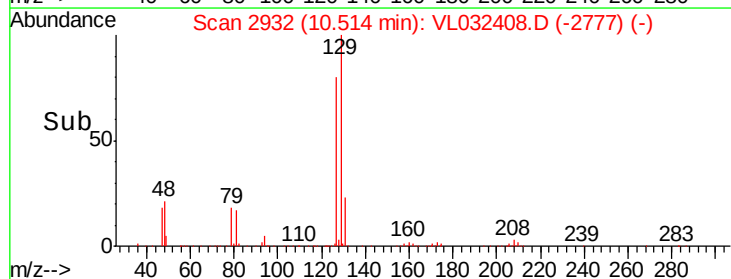
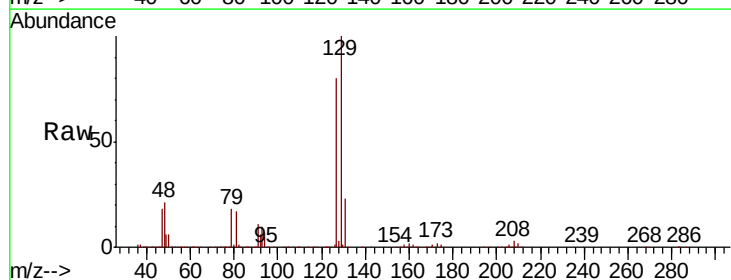
Manual Integrations
 APPROVED

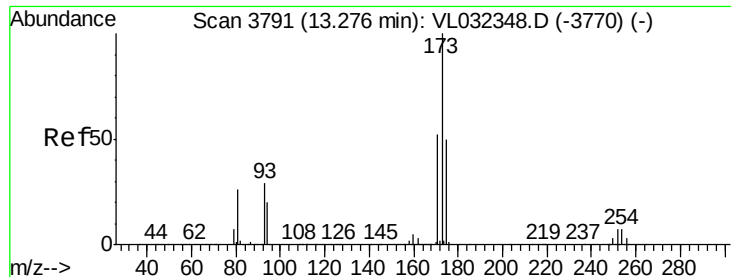
MMDadoda
 8/28/2018 2:53:51 PM



#48
 Dibromochloromethane
 Concen: 10.91 ppbv
 RT: 10.51 min Scan# 2932
 Delta R.T. -0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.7	39.3	117.9





#49

Bromoform

Concen: 11.47 ppbv

RT: 13.27 min Scan# 3788

Delta R.T. -0.01 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

ClientSampleId :

VL0820ABS01

Tot Ion:173 Resp: 1798554

Ion Ratio Lower Upper

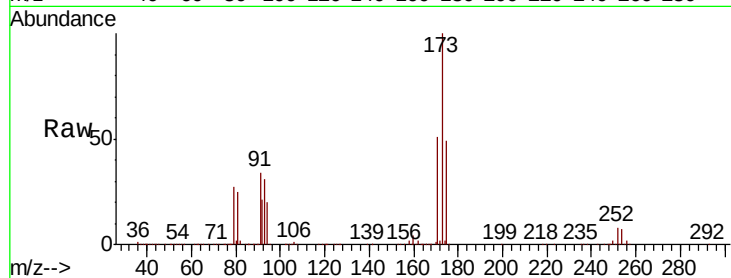
173 100

175 48.5 39.3 58.9

171 52.4 41.9 62.9

Manual Integrations
APPROVED

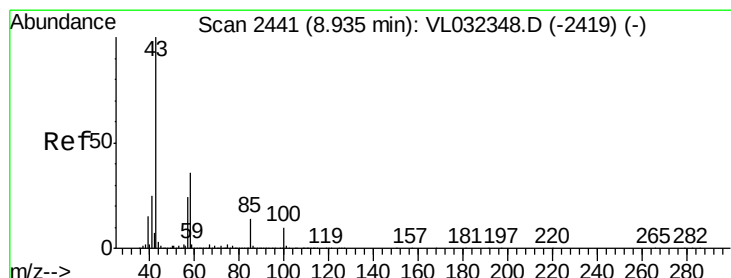
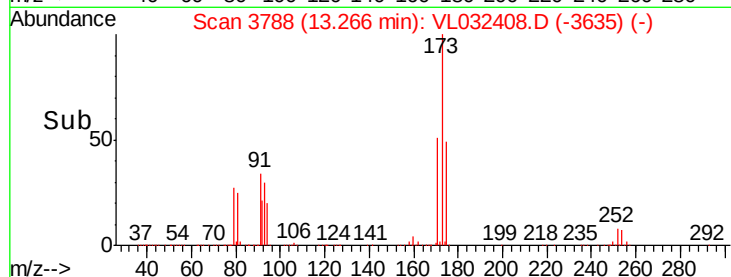
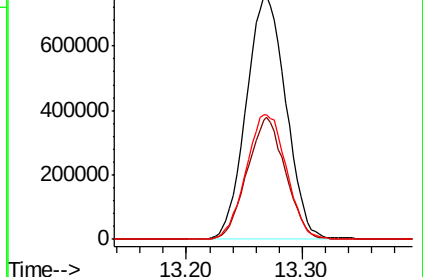
MMDadoda
8/28/2018 2:53:51 PM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 11.33 ppbv

RT: 8.93 min Scan# 2440

Delta R.T. -0.00 min

Lab File: VL032408.D

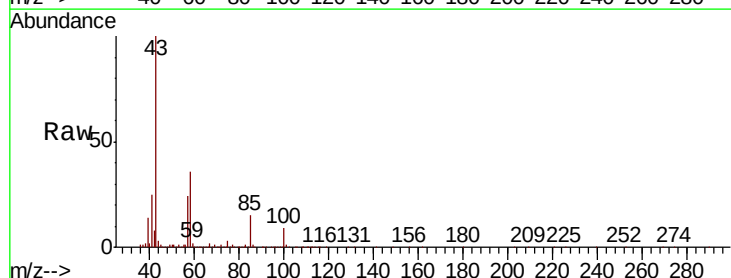
Acq: 20 Aug 2018 17:20

Tgt Ion: 43 Resp: 4036831

Ion Ratio Lower Upper

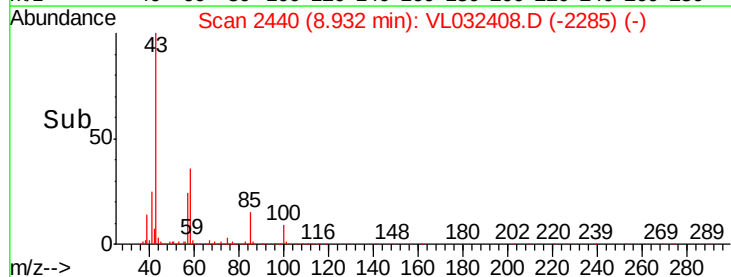
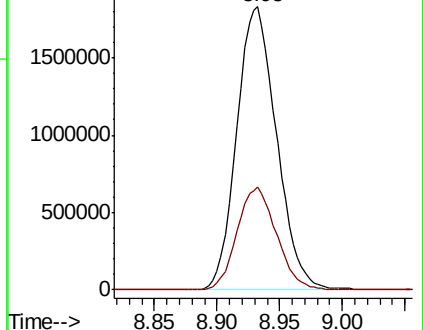
43 100

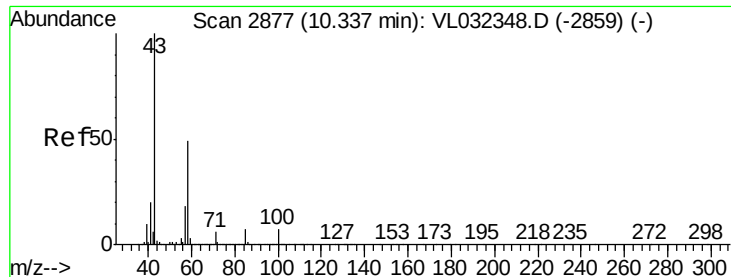
58 36.0 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





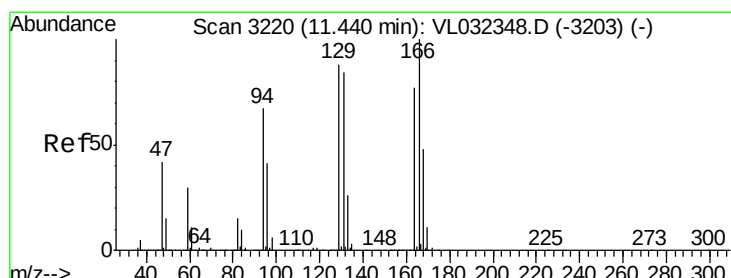
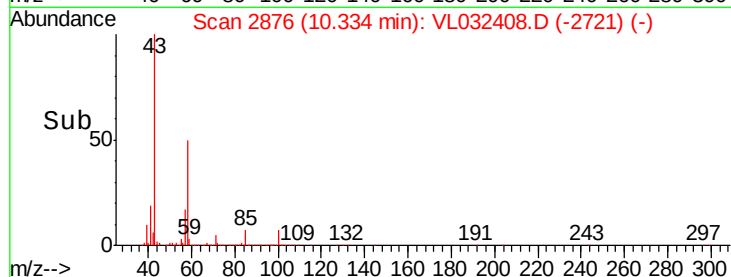
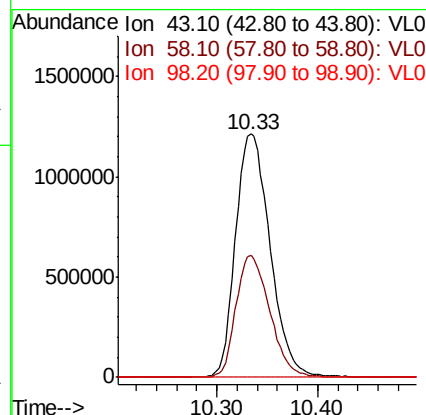
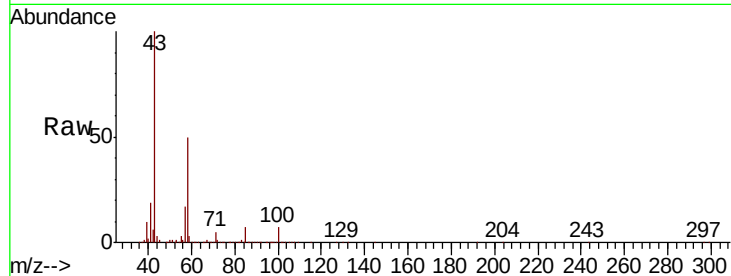
#51
2-Hexanone
Concen: 11.57 ppbv
RT: 10.33 min Scan# 2876
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Instrument :
MSVOA_L
ClientSampleId :
VL0820ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.0	39.5	59.3
98	0.5	0.3	0.5#

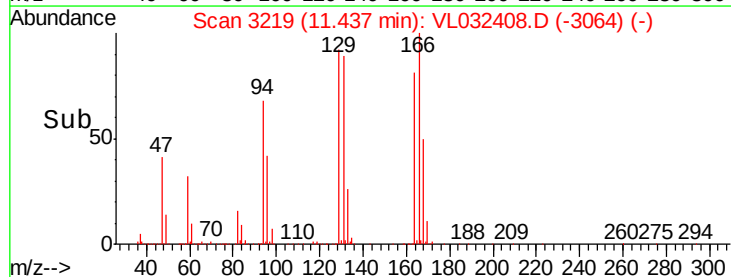
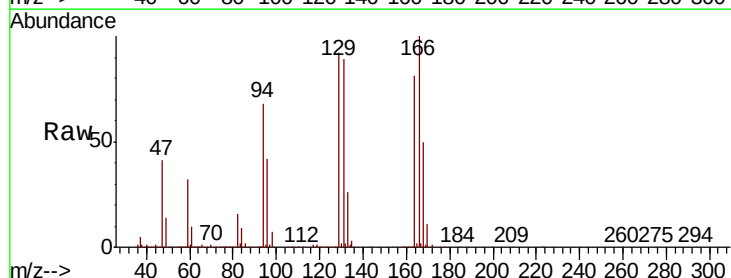
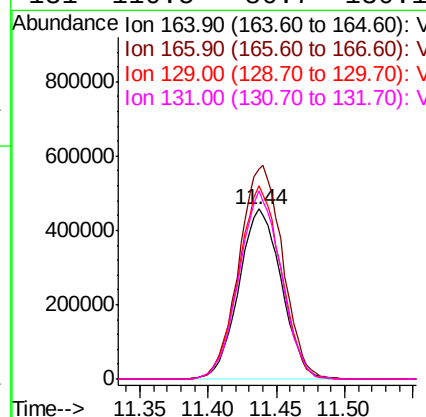
Manual Integrations
APPROVED

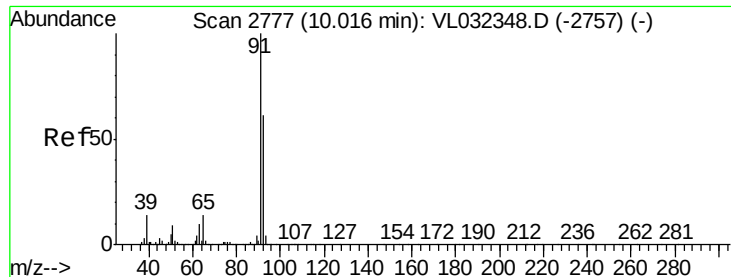
MMDadoda
8/28/2018 2:53:51 PM



#52
Tetrachloroethene
Concen: 10.89 ppbv
RT: 11.44 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.5	103.5	155.3
129	114.1	90.9	136.3
131	110.5	86.7	130.1





#53

Toluene

Concen: 10.80 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

ClientSampleId :

VL0820ABS01

Tot Ion: 91 Resp: 3637487

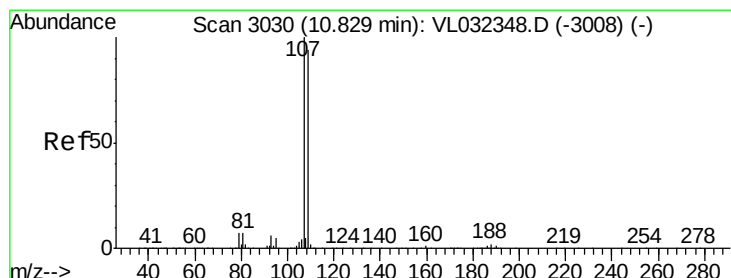
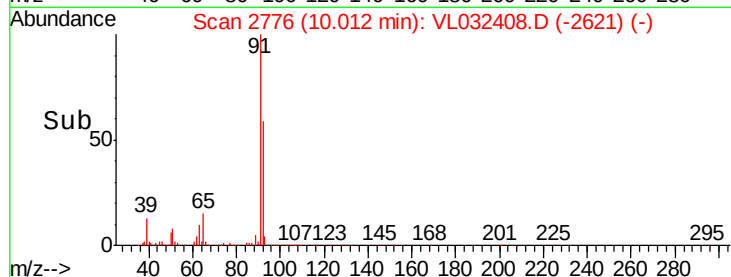
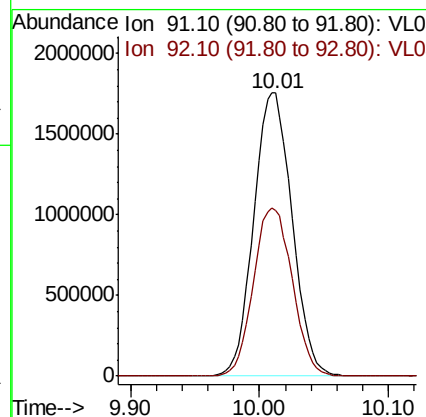
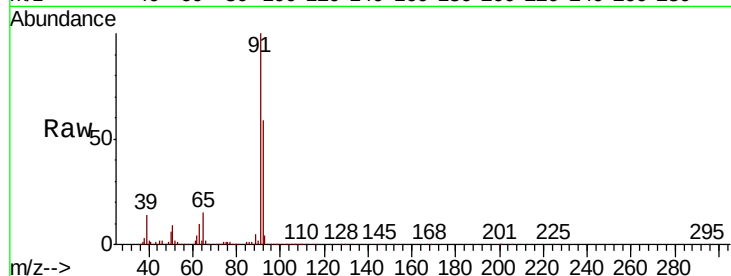
Ion Ratio Lower Upper

91 100

92 60.3 48.7 73.1

Manual Integrations
APPROVED

MMDadoda
8/28/2018 2:53:51 PM



#54

1,2-Dibromoethane

Concen: 11.01 ppbv

RT: 10.83 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VL032408.D

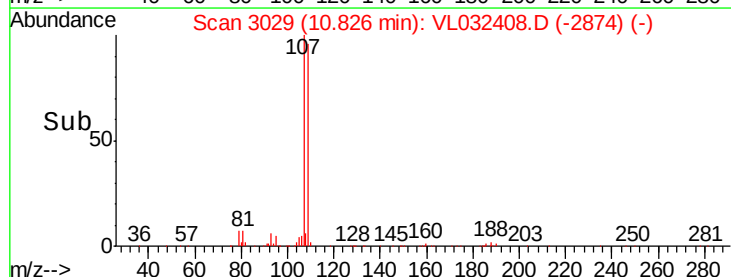
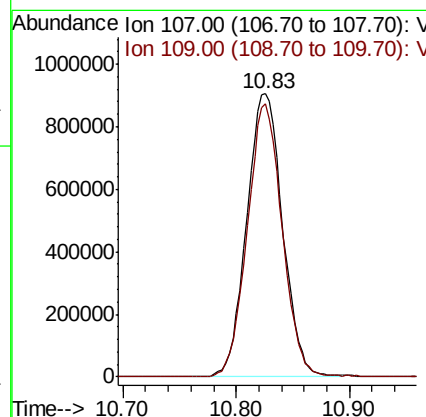
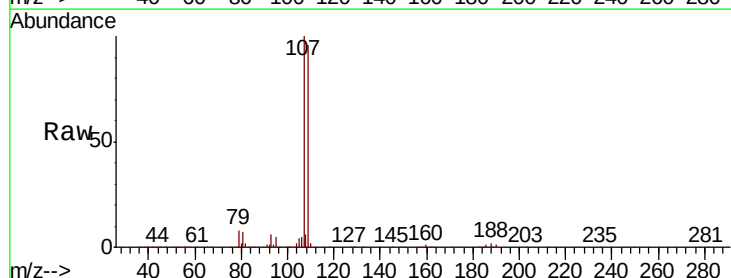
Acq: 20 Aug 2018 17:20

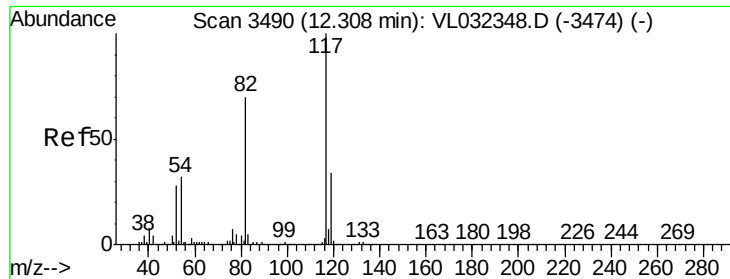
Tgt Ion: 107 Resp: 1997175

Ion Ratio Lower Upper

107 100

109 96.4 74.9 112.3





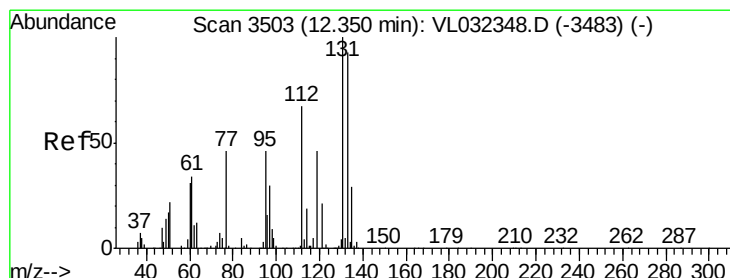
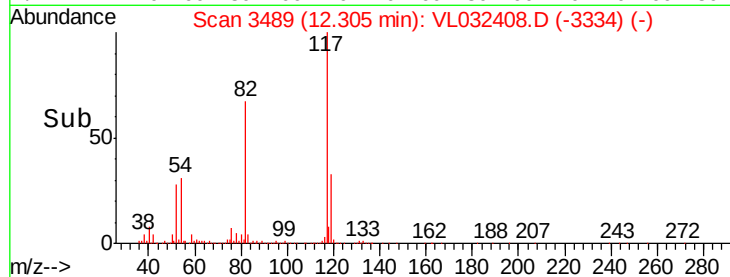
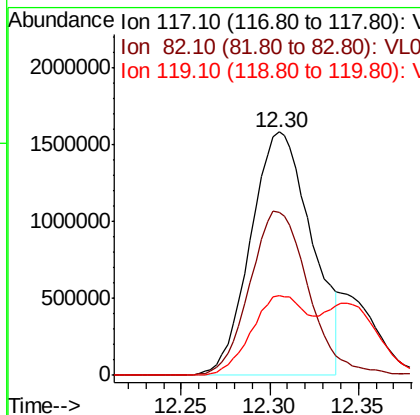
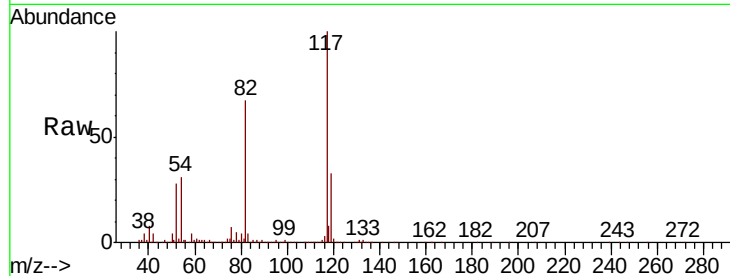
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.30 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Instrument :
MSVOA_L
ClientSampleId :
VL0820ABS01

Tot Ion:117 Resp: 3801573
Ion Ratio Lower Upper
117 100
82 65.4 55.1 82.7
119 29.7 46.0 69.0#

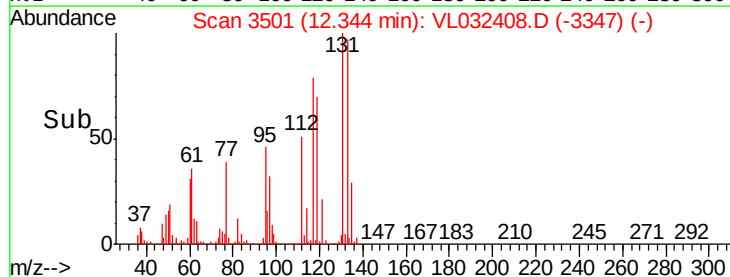
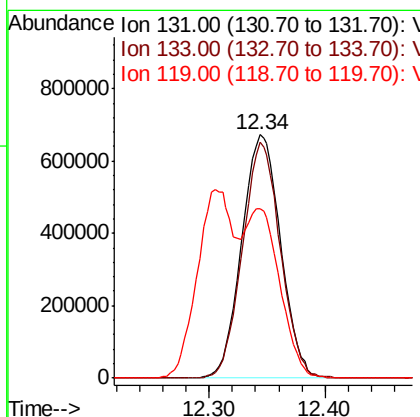
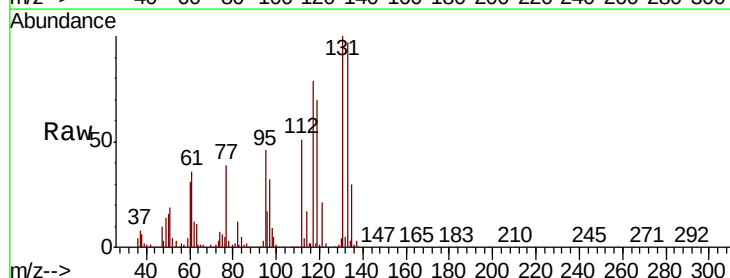
Manual Integrations
APPROVED

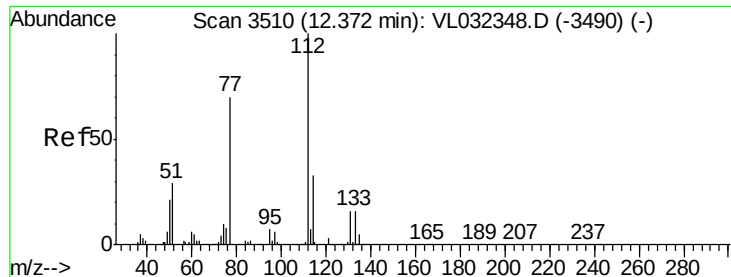
MMDadoda
8/28/2018 2:53:51 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.99 ppbv
RT: 12.34 min Scan# 3501
Delta R.T. -0.01 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Tgt Ion:131 Resp: 1570726
Ion Ratio Lower Upper
131 100
133 94.4 75.7 113.5
119 56.2 116.0 174.0#





#57

Chlorobenzene

Concen: 9.85 ppbv

RT: 12.37 min Scan# 3509

Delta R.T. -0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

ClientSampleId :

VL0820ABS01

Tot Ion:112 Resp: 2817513

Ion Ratio Lower Upper

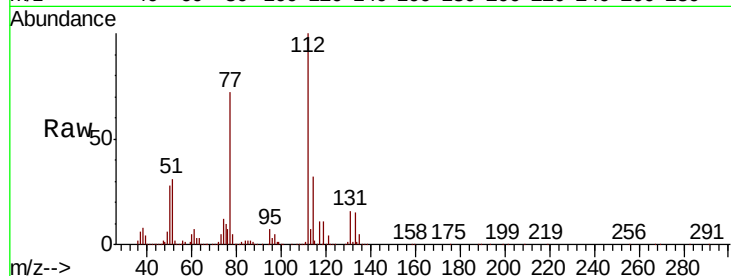
112 100

77 72.1 56.6 84.8

114 32.0 29.4 36.0

Manual Integrations
APPROVED

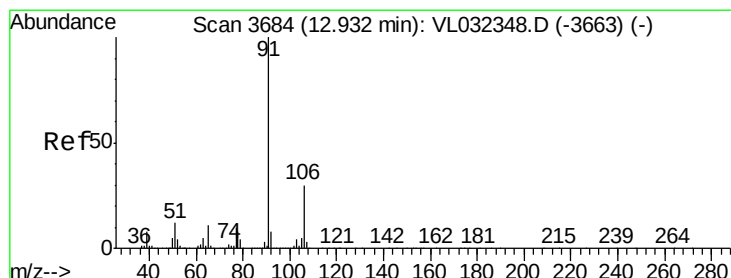
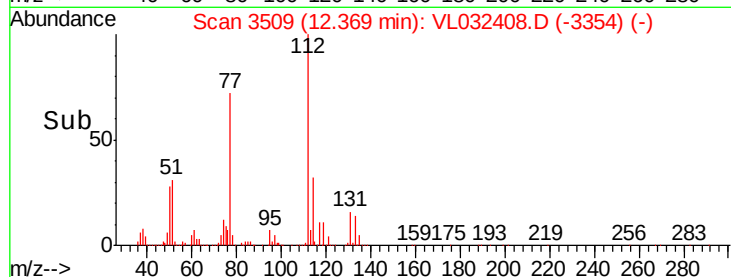
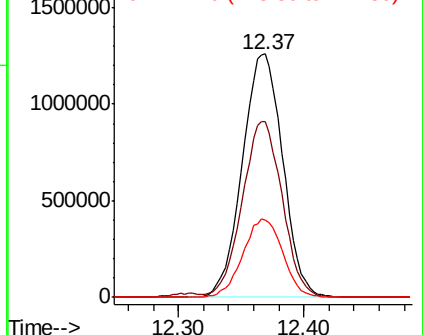
MMDadoda
8/28/2018 2:53:51 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.98 ppbv

RT: 12.93 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VL032408.D

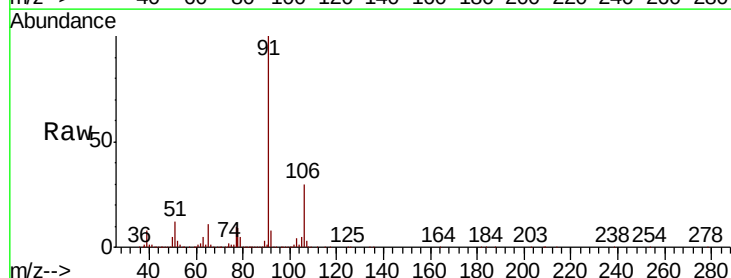
Acq: 20 Aug 2018 17:20

Tgt Ion: 91 Resp: 5020054

Ion Ratio Lower Upper

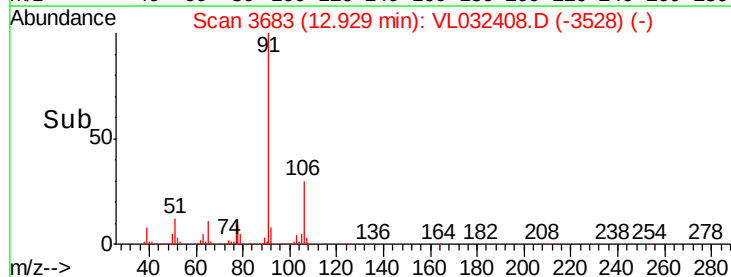
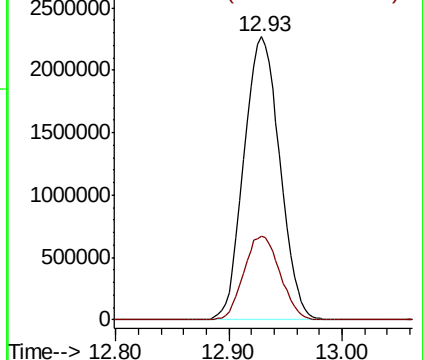
91 100

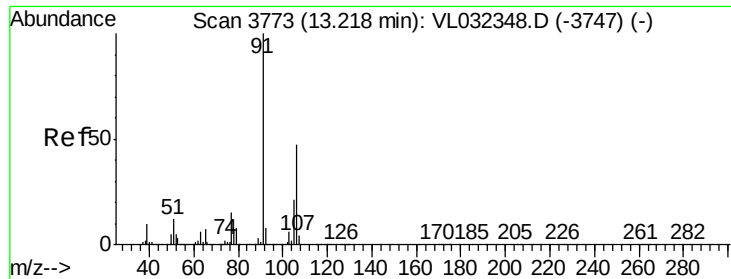
106 29.8 24.3 36.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





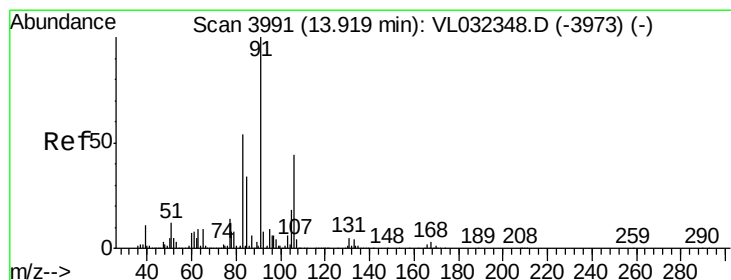
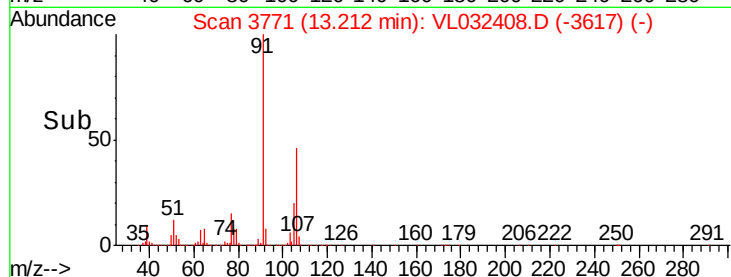
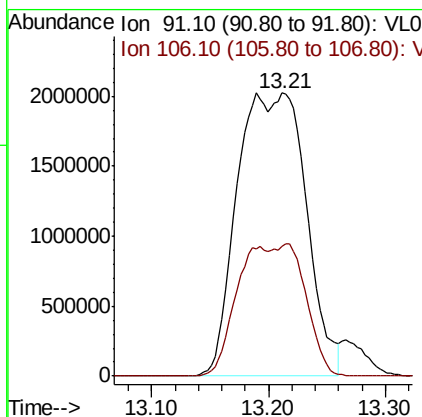
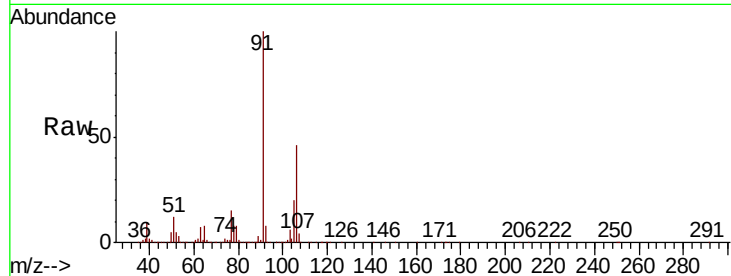
#59
m/p-Xylene
Concen: 21.21 ppbv m
RT: 13.21 min Scan# 3771
Delta R.T. -0.01 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Instrument :
MSVOA_L
ClientSampleId :
VL0820ABS01

Tot Ion: 91 Resp: 8240773
Ion Ratio Lower Upper
91 100
106 45.5 37.0 55.4

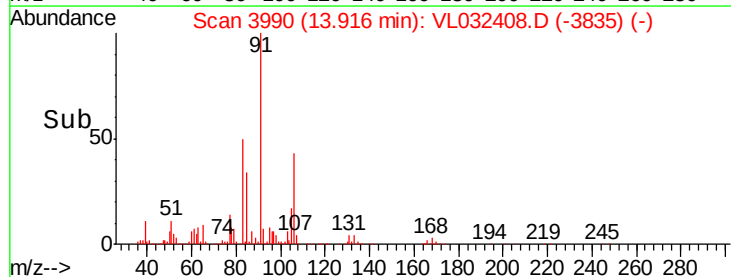
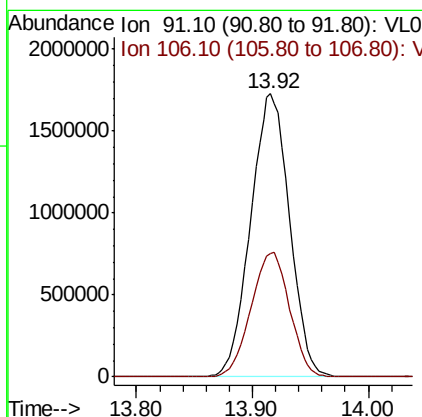
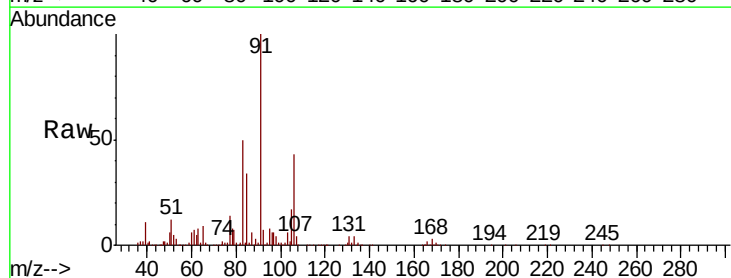
Manual Integrations
APPROVED

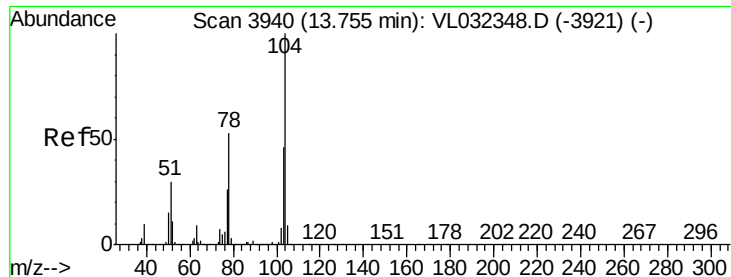
MMDadoda
8/28/2018 2:53:51 PM



#60
o-Xylene
Concen: 10.51 ppbv
RT: 13.92 min Scan# 3990
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Tgt Ion: 91 Resp: 4014901
Ion Ratio Lower Upper
91 100
106 43.8 22.3 66.8





#61

Stvrene

Concen: 11.61 ppbv

RT: 13.75 min Scan# 3938

Delta R.T. -0.01 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

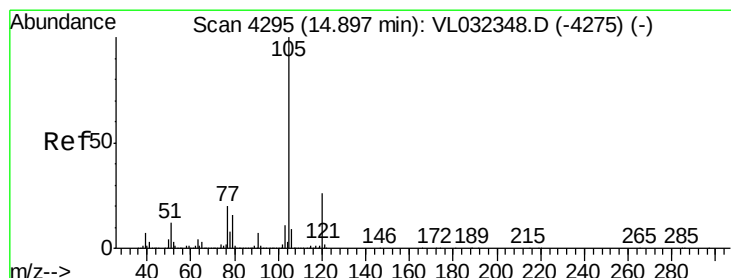
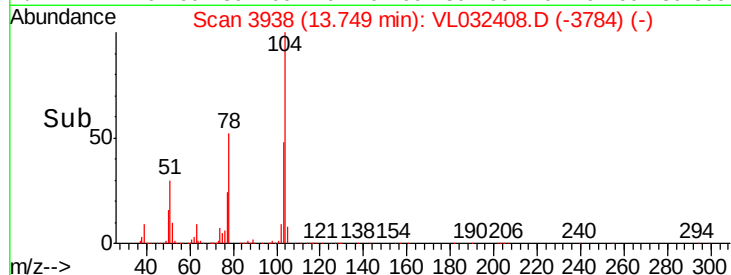
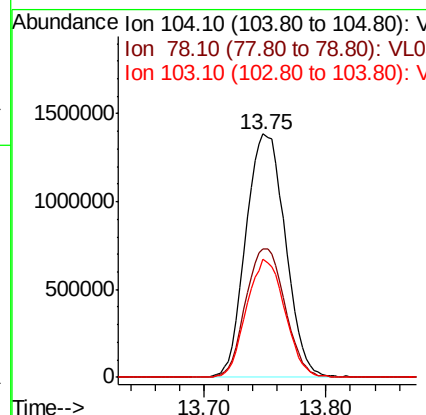
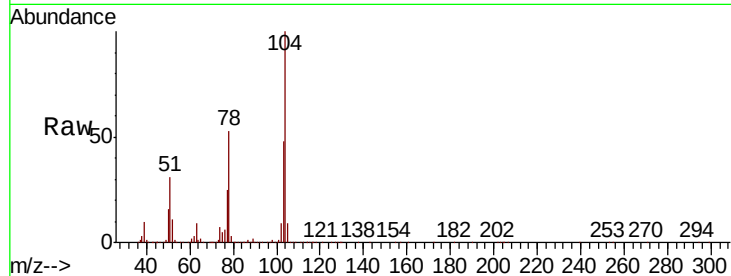
ClientSampleId :

VL0820ABS01

Tot Ion:	104	Resp:	3099589
Ion	Ratio	Lower	Upper
104	100		
78	52.7	42.6	64.0
103	47.2	38.0	57.0

Manual Integrations
APPROVED

MMDadoda
8/28/2018 2:53:51 PM



#62

Isopropylbenzene

Concen: 10.41 ppbv

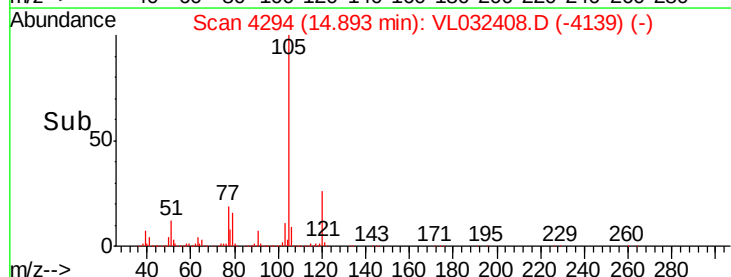
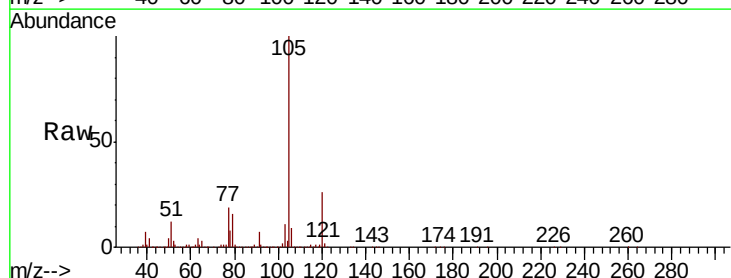
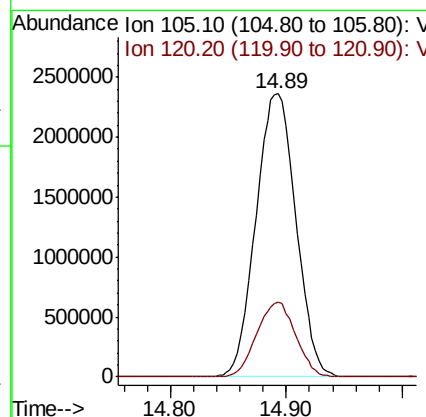
RT: 14.89 min Scan# 4294

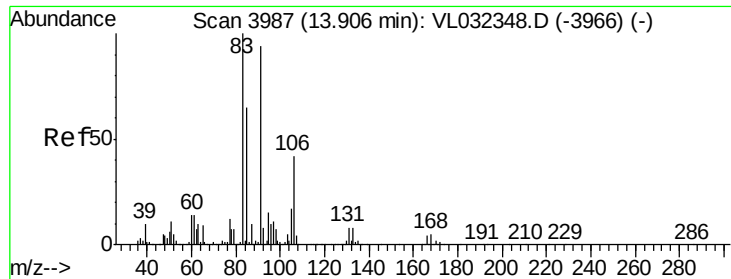
Delta R.T. -0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Tgt Ion:	105	Resp:	5658721
Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.6	30.8





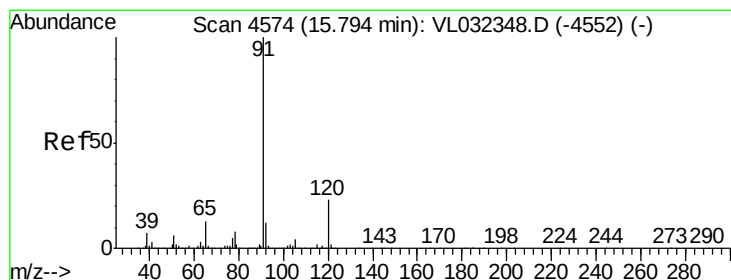
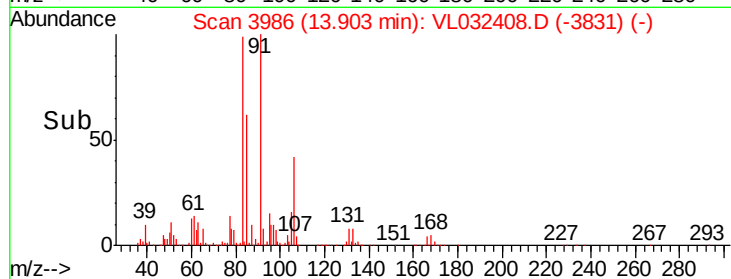
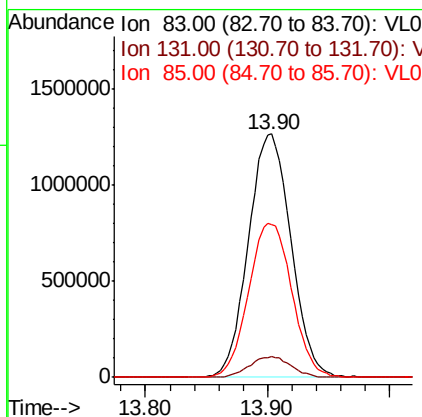
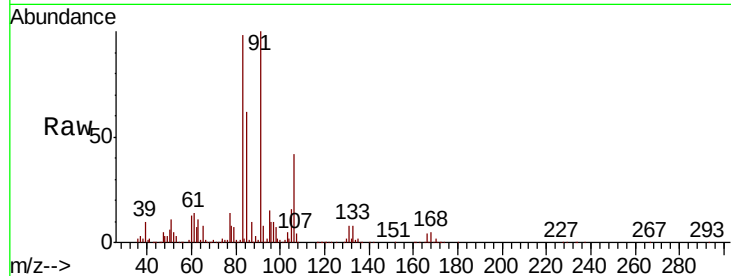
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.52 ppbv
 RT: 13.90 min Scan# 3986
 Delta R.T. -0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0820ABS01

Tot Ion	Ratio	Lower	Upper
83	100		
131	8.4	4.3	12.8
85	64.5	32.4	97.2

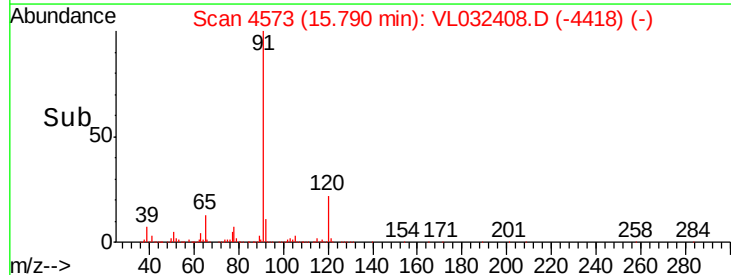
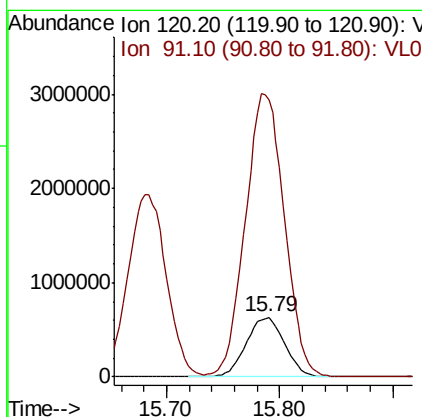
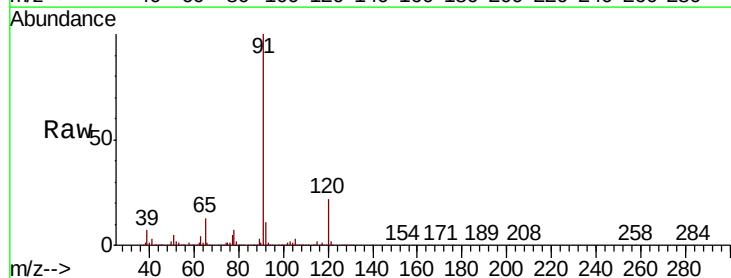
Manual Integrations
 APPROVED

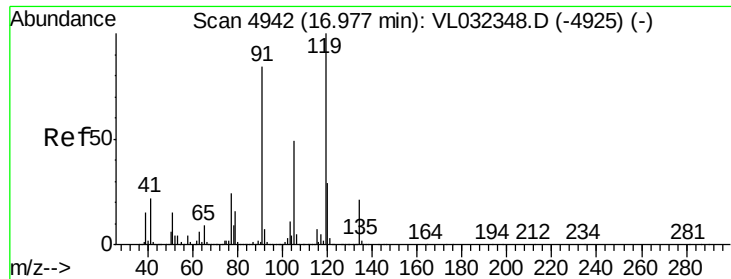
MMDadoda
 8/28/2018 2:53:51 PM



#64
 n-propylbenzene
 Concen: 10.58 ppbv
 RT: 15.79 min Scan# 4573
 Delta R.T. -0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Tgt Ion	Ratio	Lower	Upper
120	100		
91	485.8	382.2	573.2





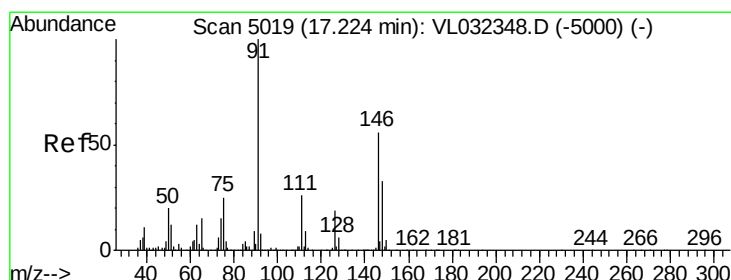
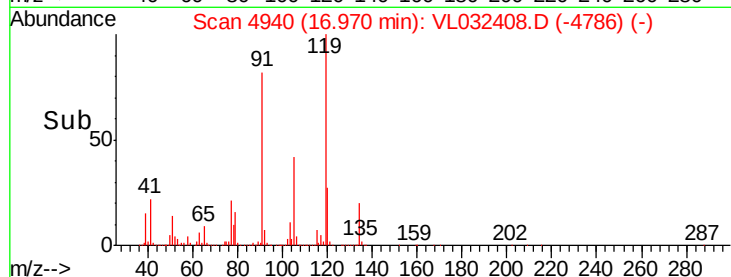
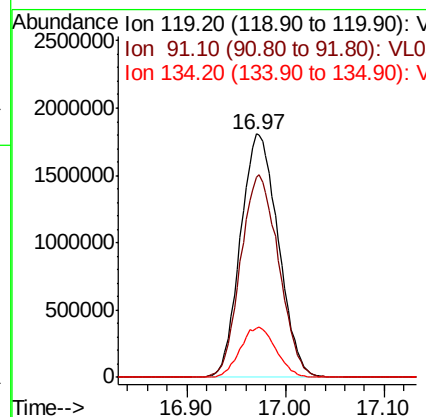
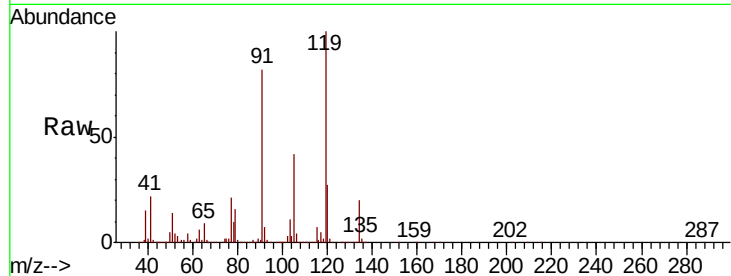
#65
tert-Butylbenzene
Concen: 10.30 ppbv
RT: 16.97 min Scan# 4940
Delta R.T. -0.01 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Instrument :
MSVOA_L
ClientSampleId :
VL0820ABS01

Tot Ion:119 Resp: 4784768
Ion Ratio Lower Upper
119 100
91 83.8 67.4 101.0
134 19.6 15.8 23.6

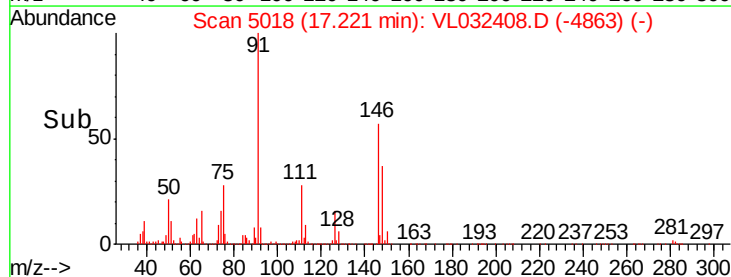
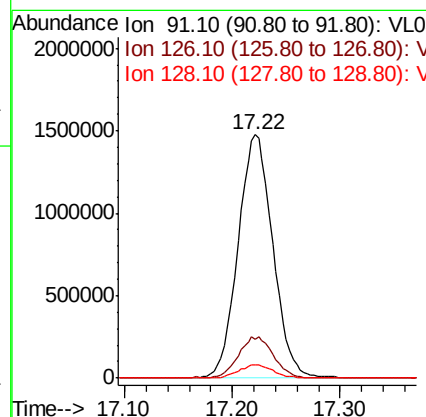
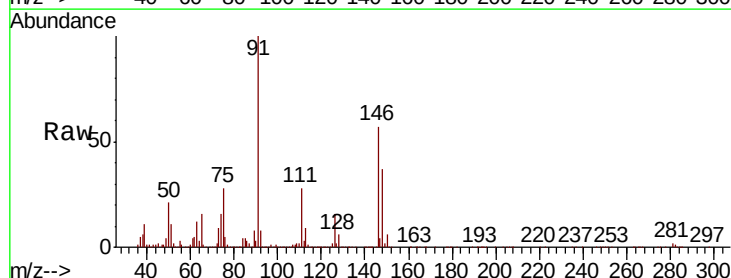
Manual Integrations
APPROVED

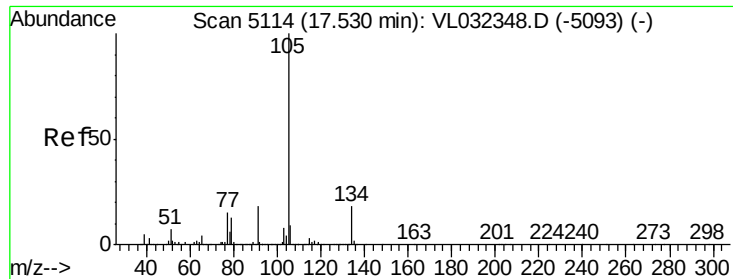
MMDadoda
8/28/2018 2:53:51 PM



#66
Benzyl Chloride
Concen: 12.00 ppbv
RT: 17.22 min Scan# 5018
Delta R.T. -0.00 min
Lab File: VL032408.D
Acq: 20 Aug 2018 17:20

Tgt Ion: 91 Resp: 3298241
Ion Ratio Lower Upper
91 100
126 17.3 14.2 21.4
128 5.5 4.5 6.7





#67

sec-Butylbenzene

Concen: 10.66 ppbv

RT: 17.52 min Scan# 5112

Delta R.T. -0.01 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

ClientSampleId :

VL0820ABS01

Tot Ion: 105 Resp: 7362843

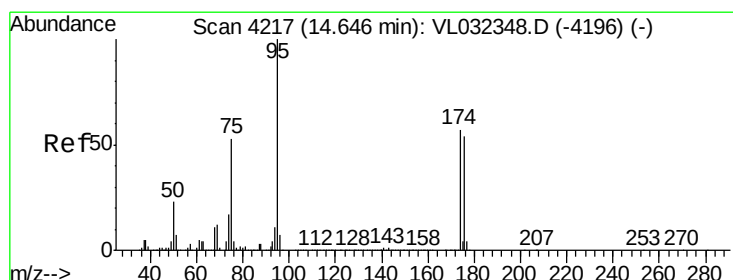
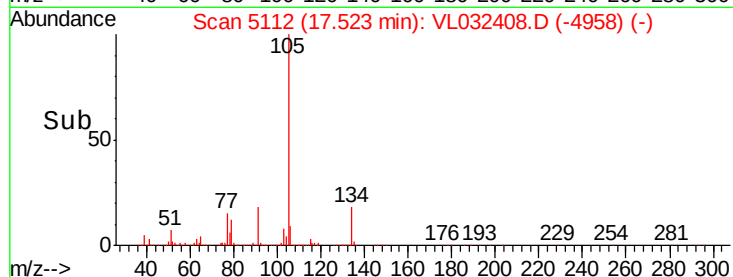
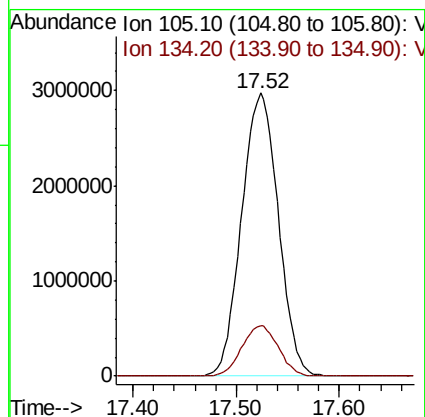
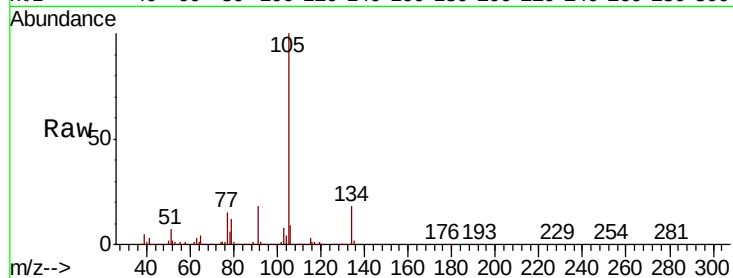
Ion Ratio Lower Upper

105 100

134 17.7 14.4 21.6

Manual Integrations
APPROVED

MMDadoda
8/28/2018 2:53:51 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.60 ppbv

RT: 14.64 min Scan# 4216

Delta R.T. -0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

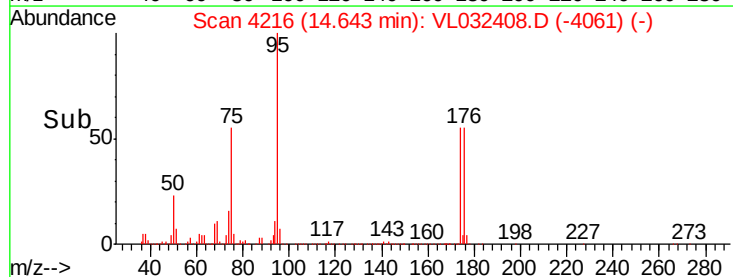
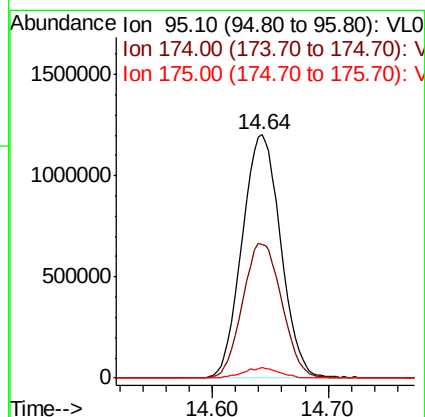
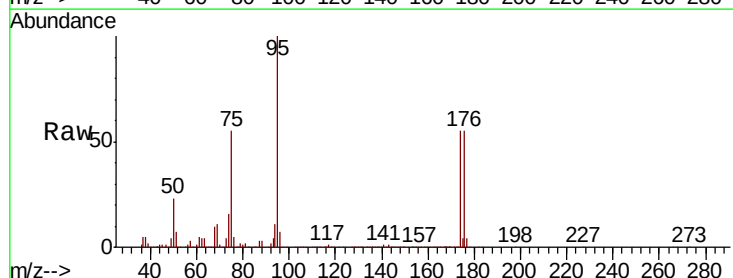
Tgt Ion: 95 Resp: 2785147

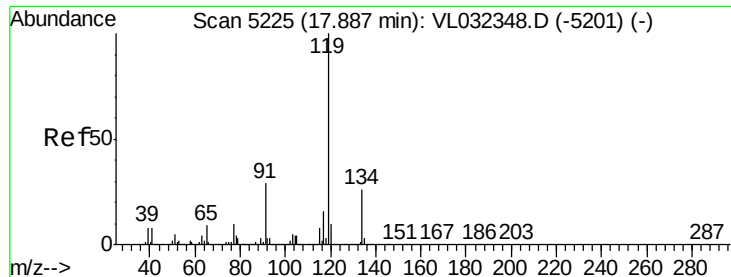
Ion Ratio Lower Upper

95 100

174 56.4 46.2 69.4

175 4.1 3.4 5.0





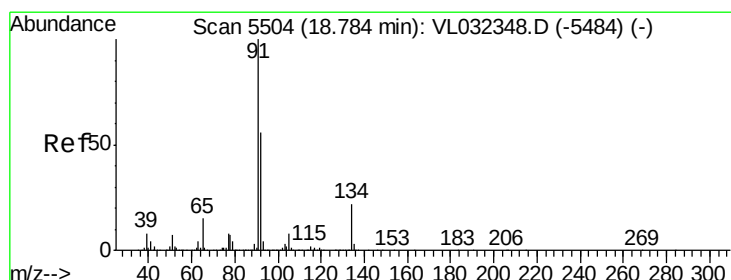
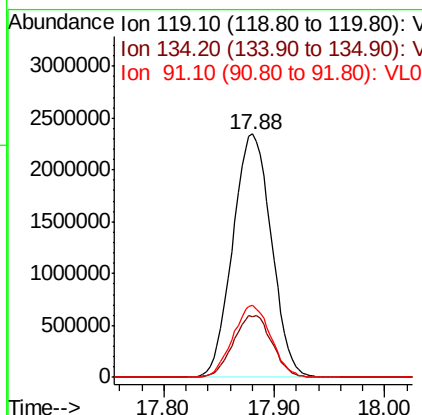
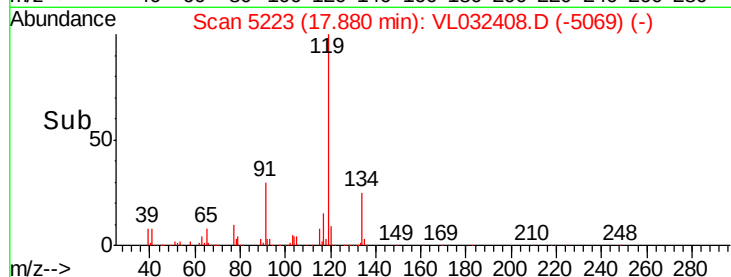
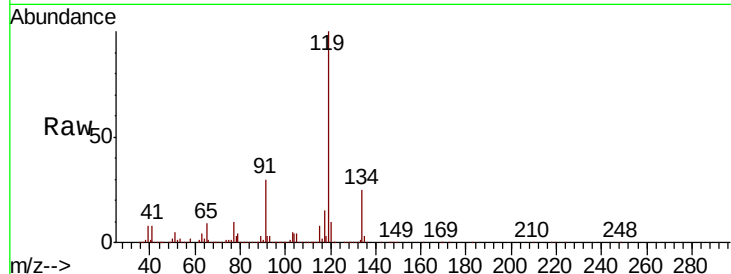
#69
 p-Isopropyltoluene
 Concen: 10.77 ppbv
 RT: 17.88 min Scan# 5223
 Delta R.T. -0.01 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0820ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.4	30.6
91	29.0	23.6	35.4

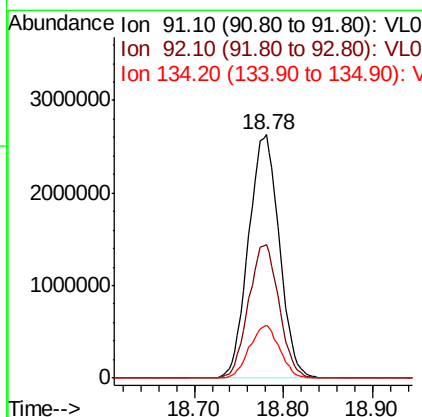
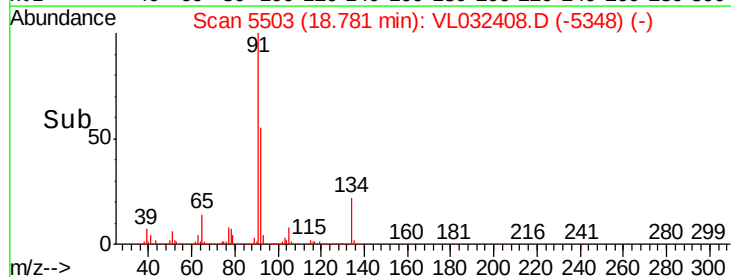
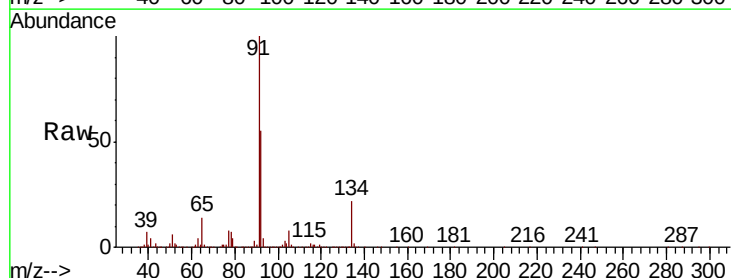
Manual Integrations
 APPROVED

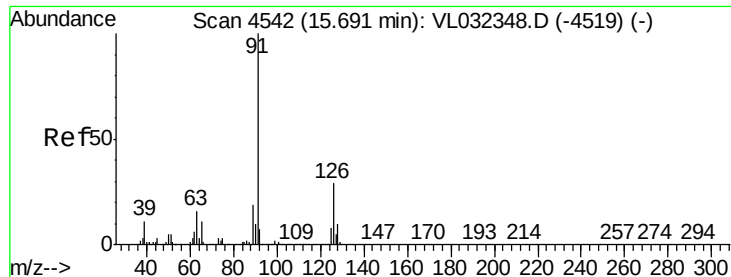
MMDadoda
 8/28/2018 2:53:51 PM



#70
 n-Butylbenzene
 Concen: 10.92 ppbv
 RT: 18.78 min Scan# 5503
 Delta R.T. -0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.3	43.9	65.9
134	21.3	17.3	25.9





#71

2-Chlorotoluene

Concen: 10.84 ppbv

RT: 15.68 min Scan# 4539

Delta R.T. -0.01 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

ClientSampleId :

VL0820ABS01

Tot Ion: 91 Resp: 4559962

Ion Ratio Lower Upper

91 100

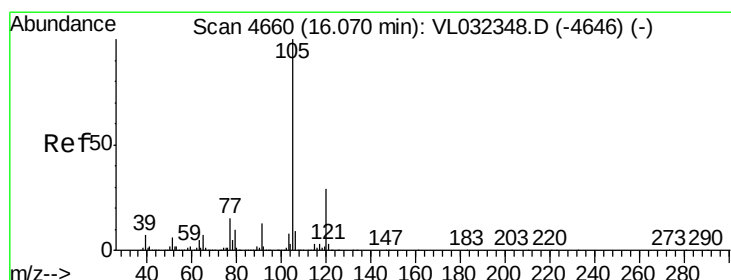
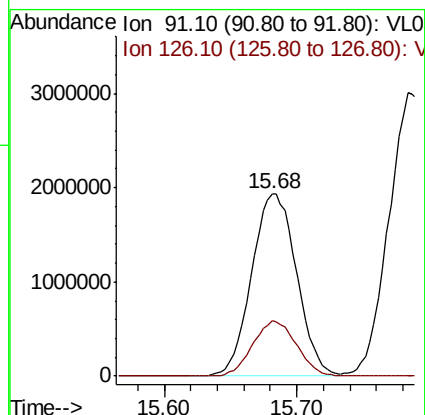
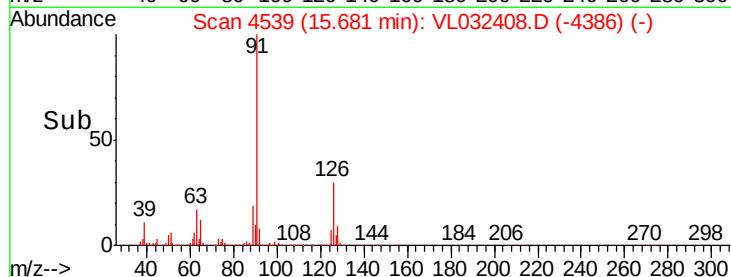
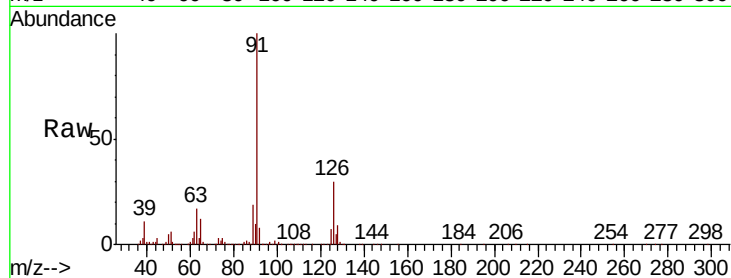
126 29.6 11.8 47.2

Manual Integrations

APPROVED

MMDadoda

8/28/2018 2:53:51 PM



#72

4-Ethyltoluene

Concen: 11.19 ppbv

RT: 16.06 min Scan# 4658

Delta R.T. -0.01 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Tgt Ion:105 Resp: 4766285

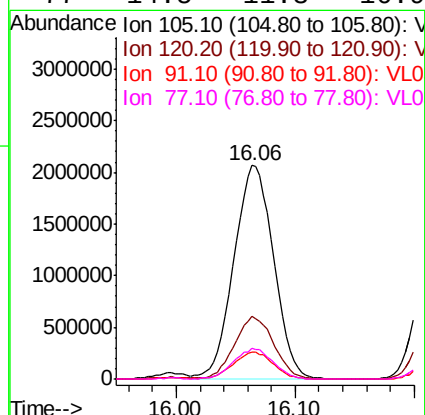
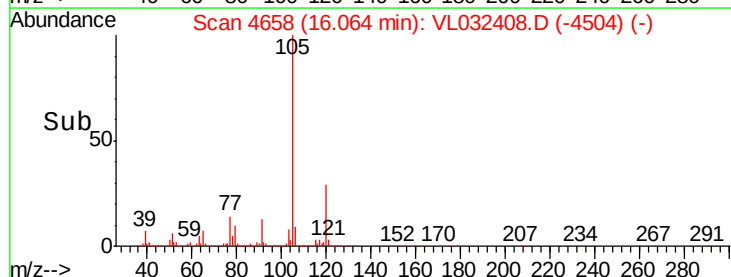
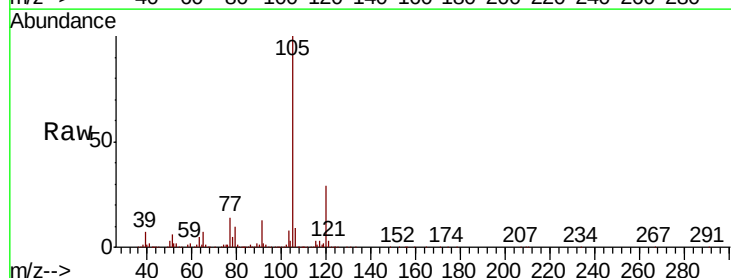
Ion Ratio Lower Upper

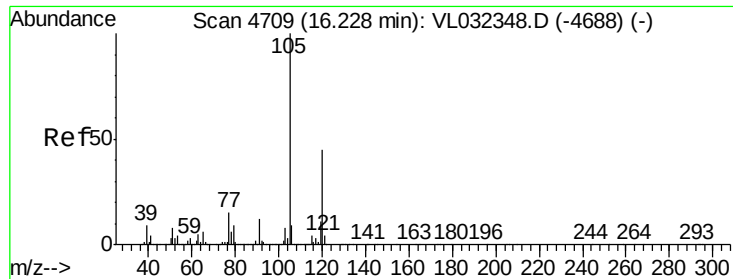
105 100

120 28.9 23.4 35.0

91 12.5 10.0 15.0

77 14.5 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 10.99 ppbv

RT: 16.22 min Scan# 4707

Delta R.T. -0.01 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

ClientSampleId :

VL0820ABS01

Tot Ion:105 Resp: 4502505

Ion Ratio Lower Upper

105 100

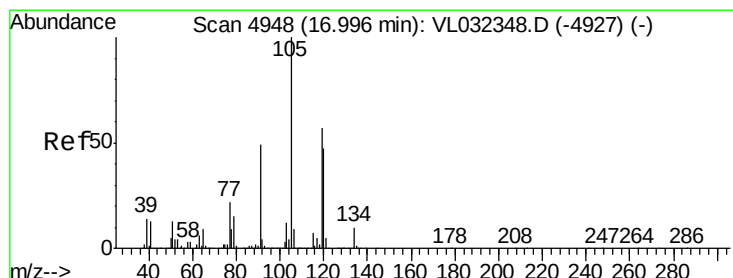
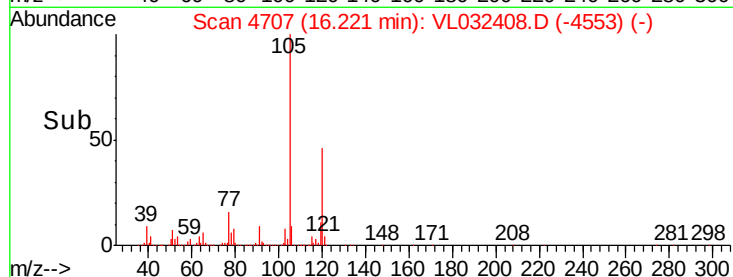
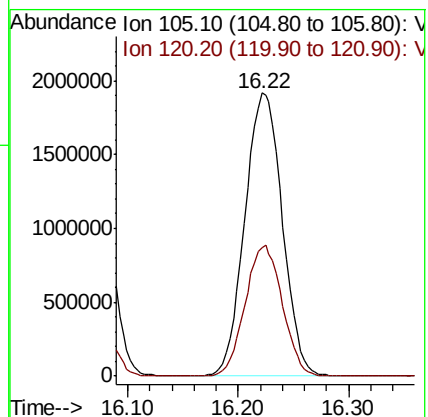
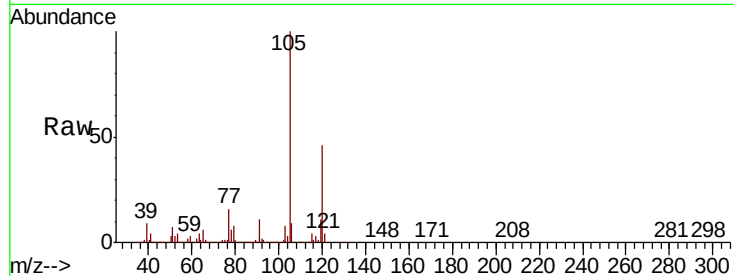
120 45.6 36.3 54.5

Manual Integrations

APPROVED

MMDadoda

8/28/2018 2:53:51 PM



#74

1,2,4-Trimethylbenzene

Concen: 10.46 ppbv

RT: 16.99 min Scan# 4947

Delta R.T. -0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Tgt Ion:105 Resp: 4558093

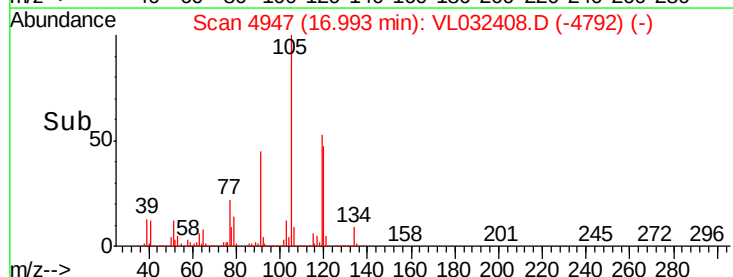
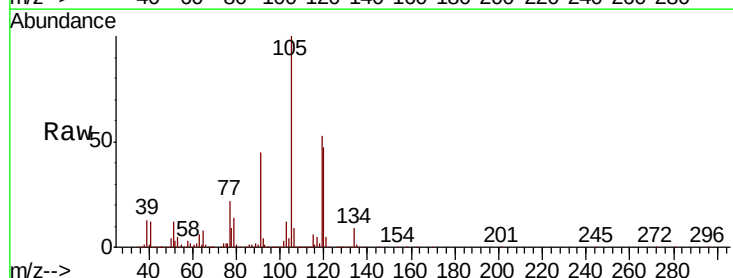
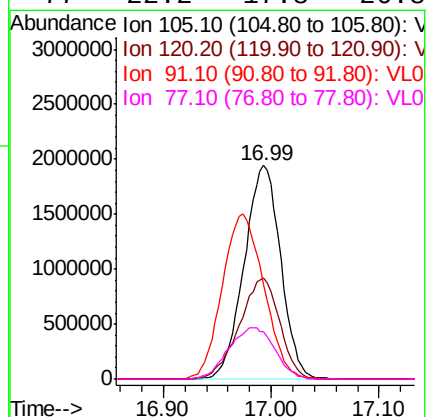
Ion Ratio Lower Upper

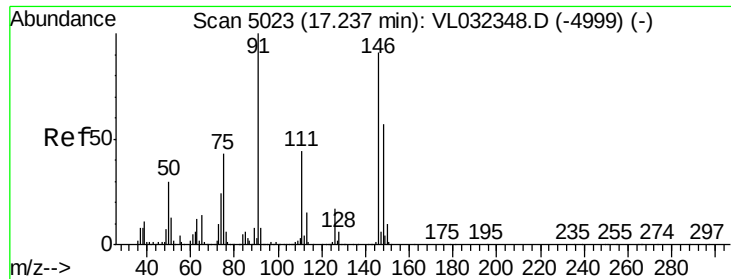
105 100

120 47.2 37.6 56.4

91 44.5 39.9 59.9

77 22.2 17.8 26.8





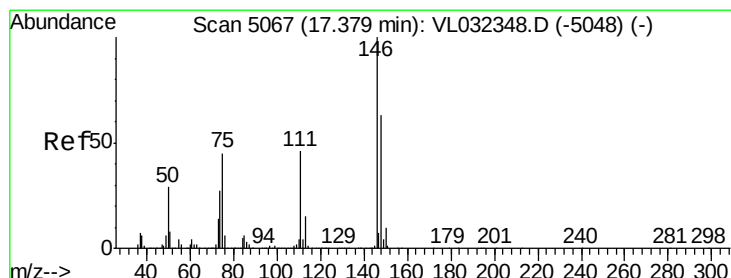
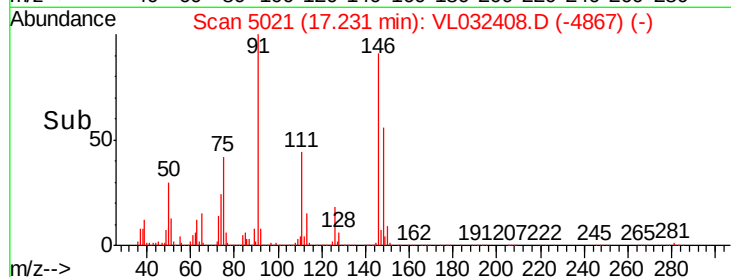
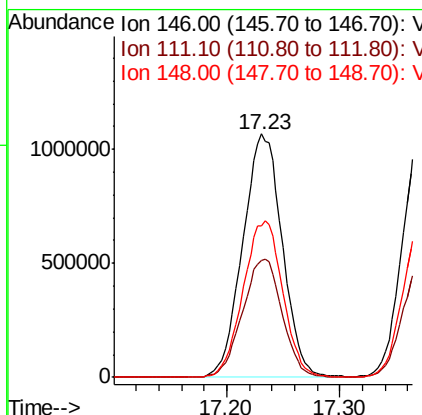
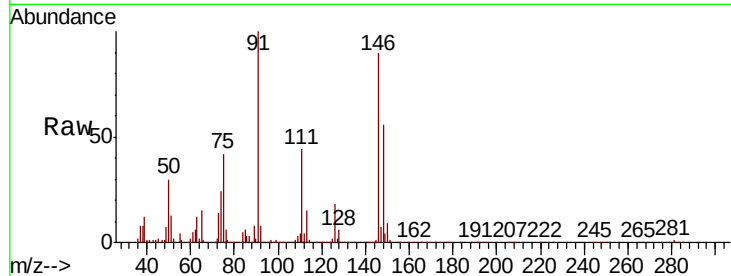
#75
 1,3-Dichlorobenzene
 Concen: 9.87 ppbv
 RT: 17.23 min Scan# 5021
 Delta R.T. -0.01 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0820ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.0	24.6	73.8
148	64.6	32.0	96.0

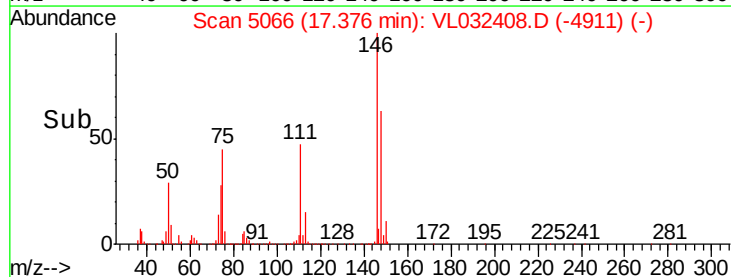
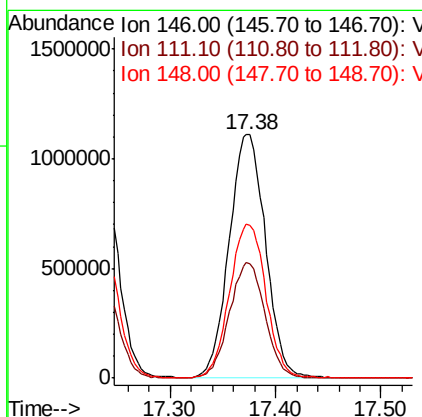
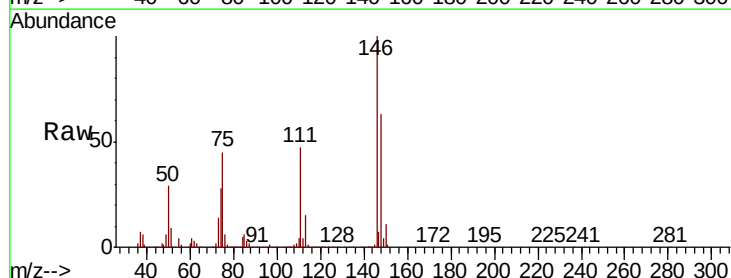
Manual Integrations
 APPROVED

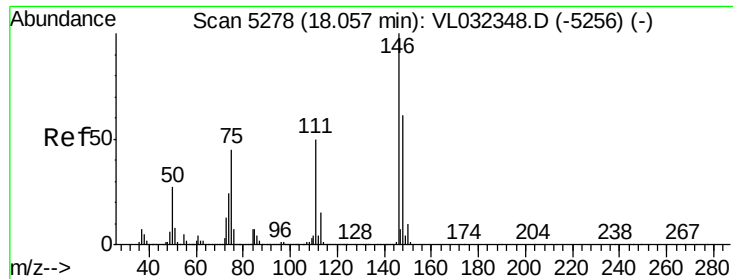
MMDadoda
 8/28/2018 2:53:51 PM



#76
 1,4-Dichlorobenzene
 Concen: 10.63 ppbv
 RT: 17.38 min Scan# 5066
 Delta R.T. -0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.9	23.8	71.4
148	63.7	32.2	96.6





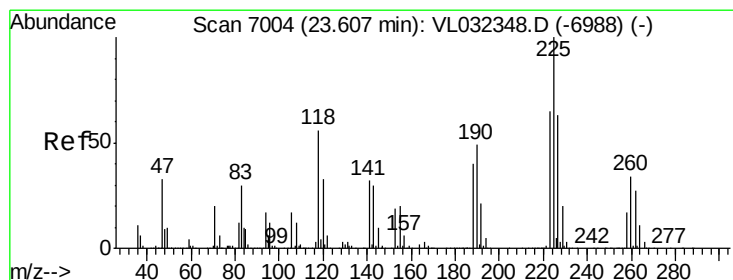
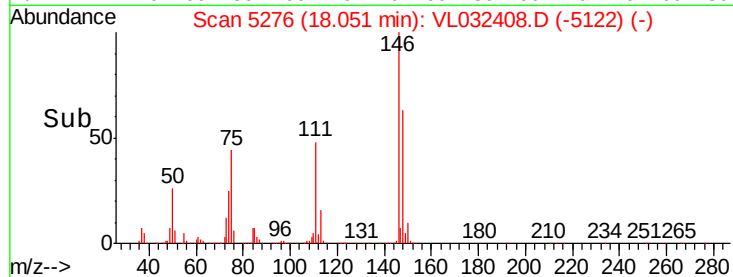
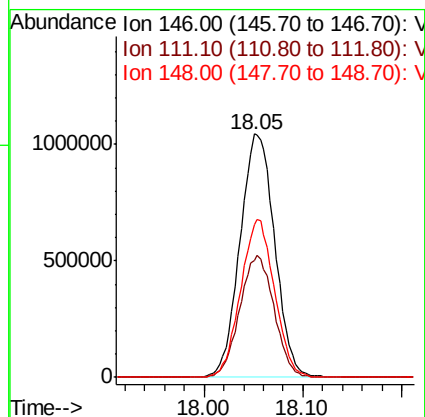
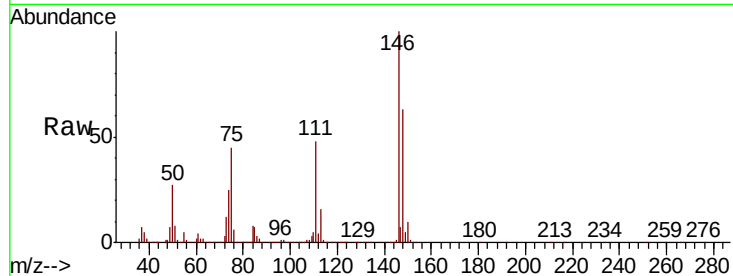
#77
 1,2-Dichlorobenzene
 Concen: 10.14 ppbv
 RT: 18.05 min Scan# 5276
 Delta R.T. -0.01 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0820ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.8	25.2	75.6
148	63.2	31.8	95.4

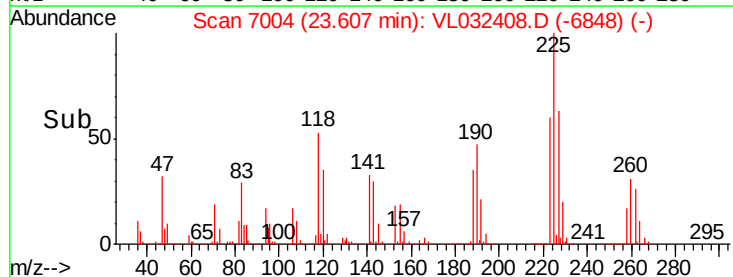
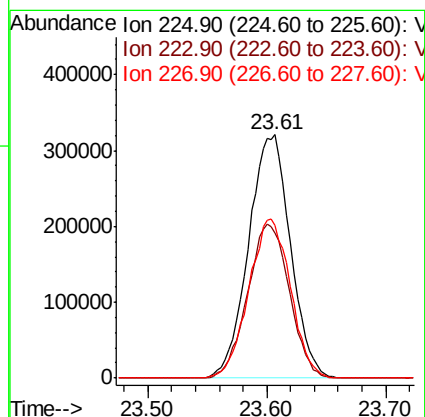
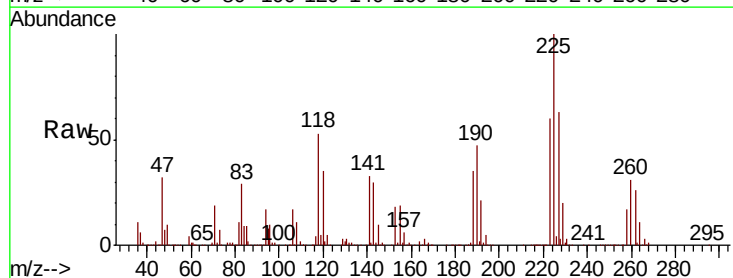
Manual Integrations
 APPROVED

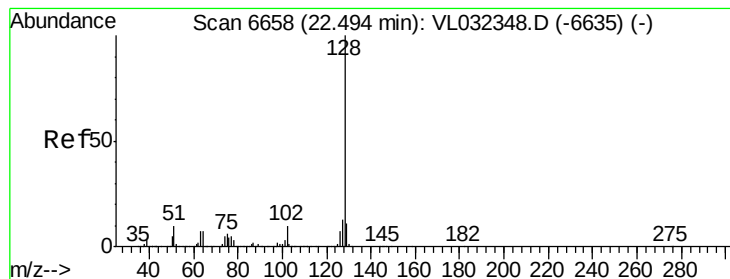
MMDadoda
 8/28/2018 2:53:51 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.30 ppbv
 RT: 23.61 min Scan# 7004
 Delta R.T. 0.00 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.6	76.0
227	65.1	51.0	76.6





#79

Naphthalene

Concen: 13.35 ppbv

RT: 22.48 min Scan# 6655

Delta R.T. -0.01 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Instrument :

MSVOA_L

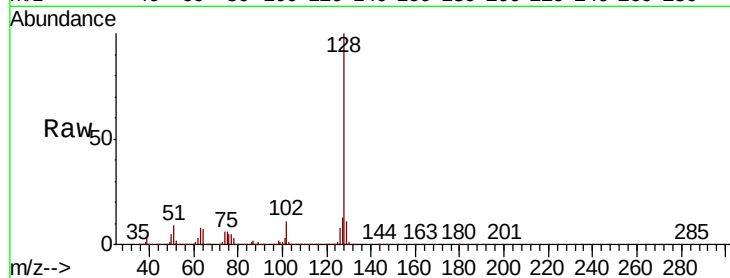
ClientSampleId :

VL0820ABS01

Tot Ion:	128	Resp:	4246961
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	11.4	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
8/28/2018 2:53:51 PM

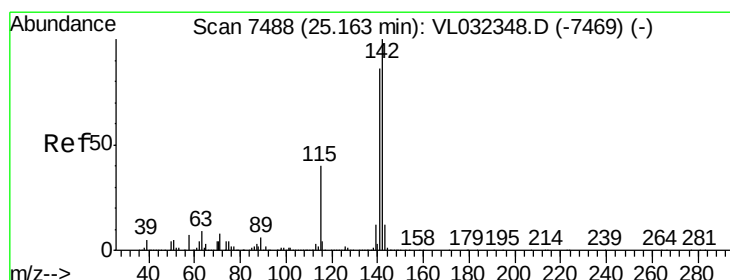
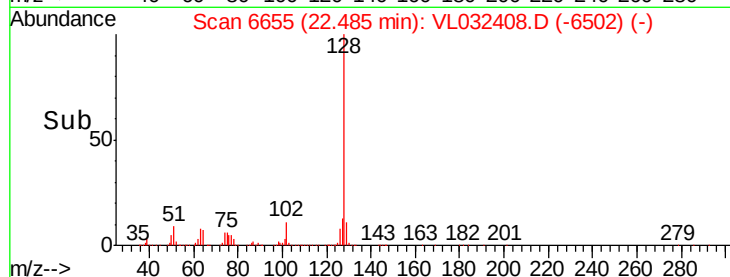
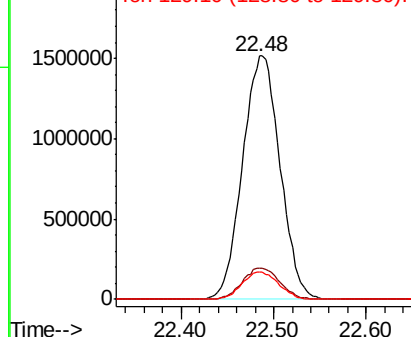


Abundance

Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 19.03 ppbv

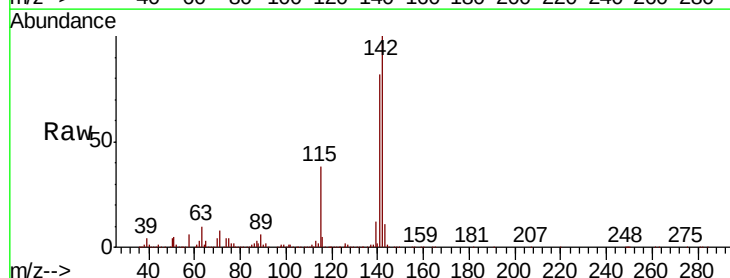
RT: 25.16 min Scan# 7488

Delta R.T. 0.00 min

Lab File: VL032408.D

Acq: 20 Aug 2018 17:20

Tgt Ion:	142	Resp:	1655149
Ion	Ratio	Lower	Upper
142	100		
141	83.2	66.7	100.1
115	38.3	31.0	46.6

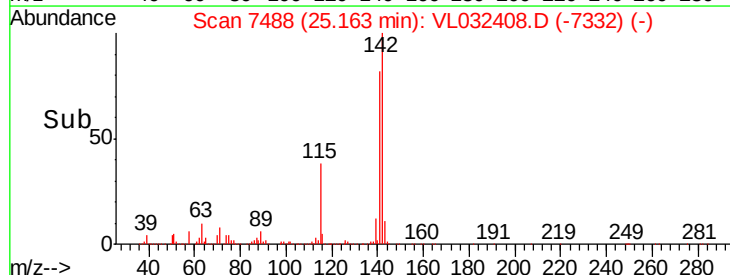
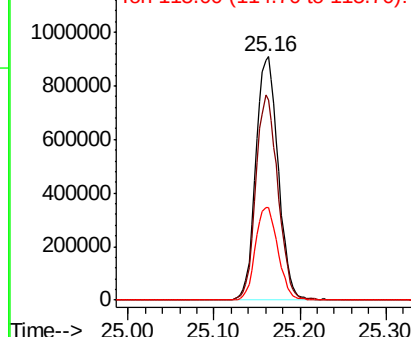


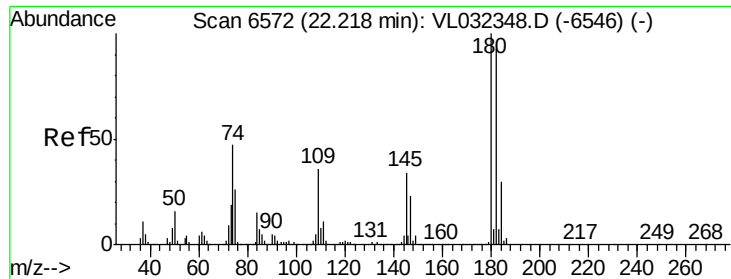
Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 11.96 ppbv
 RT: 22.21 min Scan# 6570
 Delta R.T. -0.01 min
 Lab File: VL032408.D
 Acq: 20 Aug 2018 17:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0820ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.1	114.1
184	29.9	24.2	36.2

Manual Integrations
 APPROVED

MMDadoda
 8/28/2018 2:53:51 PM

