

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033625.D
 Acq On : 2 May 2019 12:43
 Operator : SY/AP
 Sample : VL0502ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0502ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:18:26 AM

Quant Time: May 03 03:59:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 03:59:15 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1066956	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2639394	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2938961m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2222748	9.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1663198	10.344	ppbv	98
3) Chlorodifluoromethane	3.01	51	1222640	9.584	ppbv	98
4) Chloromethane	3.17	50	679577	9.780	ppbv	100
5) Vinyl Chloride	3.29	62	670356	9.196	ppbv	97
6) Bromomethane	3.51	94	441028	10.280	ppbv	98
7) Chloroethane	3.60	64	262663	10.808	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1709511	9.772	ppbv	98
9) Propene	3.03	41	520190	14.241	ppbv	87
10) Heptane	8.25	43	1404803	10.400	ppbv	99
11) Trichlorofluoromethane	4.00	101	2062121	10.790	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1362815	10.397	ppbv	99
13) Ethanol	3.65	45	147764	8.922	ppbv	97
14) Bromoethene	3.79	108	570964	10.612	ppbv	98
15) Acetone	3.90	43	1285744	9.898	ppbv	99
16) 1,3-Butadiene	3.36	39	629677	10.771	ppbv	99
17) tert-Butyl alcohol	4.35	59	1284553	11.453	ppbv	100
18) 1,1-Dichloroethene	4.35	96	610223	10.713	ppbv	95
19) Isopropyl Alcohol	4.02	45	1037298	11.635	ppbv	100
20) Methylene Chloride	4.41	84	507118	10.017	ppbv	98
21) Allyl Chloride	4.48	41	894747	10.950	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	621735	11.145	ppbv	96
23) Vinyl Acetate	5.16	43	2026736	10.492	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1403053	9.757	ppbv	99
25) Ethyl Acetate	5.77	43	2374604	9.632	ppbv	100
26) Hexane	5.78	57	1032295	9.944	ppbv	99
27) Carbon Disulfide	4.62	76	1494762	11.890	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1815524	10.371	ppbv	99
29) Chloroform	5.85	83	1790985	9.414	ppbv	98
30) Cyclohexane	7.24	84	941651	10.715	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1092579	10.428	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1904834	9.566	ppbv	99
34) 2-Butanone	5.33	43	1579655	9.749	ppbv	99
35) Carbon Tetrachloride	7.13	117	2015513	9.639	ppbv	98
36) Benzene	7.00	78	2275362	10.118	ppbv	98
37) 1,2-Dichloroethane	6.41	62	1415542	9.473	ppbv	99
38) Trichloroethene	7.96	130	909304	10.138	ppbv	98
39) 1,2-Dichloropropane	7.73	63	841018	9.917	ppbv	98
40) 1,4-Dioxane	7.95	88	379107	11.002	ppbv	90
41) Tetrahydrofuran	6.15	42	903138	10.437	ppbv	99
42) Bromodichloromethane	7.92	83	2008358	9.931	ppbv	99
43) Methyl Methacrylate	8.14	69	907860	10.661	ppbv	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033625.D
 Acq On : 2 May 2019 12:43
 Operator : SY/AP
 Sample : VL0502ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0502ABS01

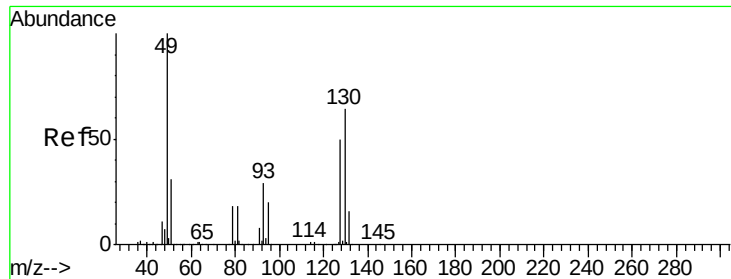
Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:18:26 AM

Quant Time: May 03 03:59:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 03:59:15 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3793676	9.680	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1248143	11.035	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1408363	11.039	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	943916	8.534	ppbv	99
48) Dibromochloromethane	10.45	129	1739137	9.297	ppbv	99
49) Bromoform	13.20	173	1514703	10.569	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2451157	9.654	ppbv	100
51) 2-Hexanone	10.27	43	2054974	9.219	ppbv	99
52) Tetrachloroethene	11.37	164	890917	10.304	ppbv	98
53) Toluene	9.94	91	2698452	9.508	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1523844	10.017	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1159571	9.160	ppbv	100
57) Chlorobenzene	12.30	112	2054498	9.108	ppbv	97
58) Ethyl Benzene	12.86	91	3702972	10.942	ppbv	99
59) m/p-Xylene	13.15	91	6118052m	21.014	ppbv	
60) o-Xylene	13.85	91	3082082	10.480	ppbv	99
61) Styrene	13.68	104	2356829	11.725	ppbv	100
62) Isopropylbenzene	14.82	105	4042308	10.285	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2090307	9.105	ppbv	100
64) n-propylbenzene	15.72	120	1058898	10.387	ppbv	99
65) tert-Butylbenzene	16.90	119	3684751	10.025	ppbv	99
66) Benzyl Chloride	17.15	91	2010267	12.060	ppbv	100
67) sec-Butylbenzene	17.46	105	5136054	9.950	ppbv	99
69) p-Isopropyltoluene	17.81	119	4299695	10.012	ppbv	100
70) n-Butylbenzene	18.71	91	4470060	9.564	ppbv	100
71) 2-Chlorotoluene	15.61	91	3097458	10.537	ppbv	99
72) 4-Ethyltoluene	16.00	105	3570308	10.658	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3367909	10.224	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	3558833	9.686	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	2086840	9.124	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	2092137	9.593	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1982758	9.319	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1828403	11.239	ppbv	100
79) Naphthalene	22.41	128	4133615	12.199	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	2053352	13.978	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	2102999	10.702	ppbv	99

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



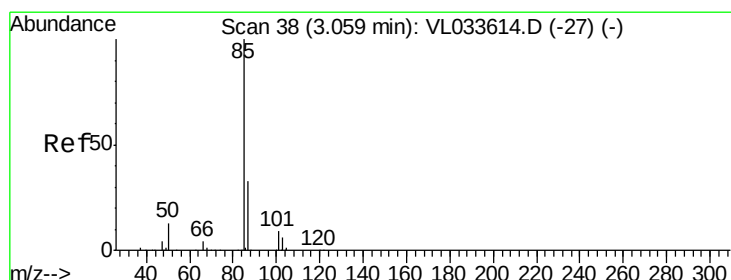
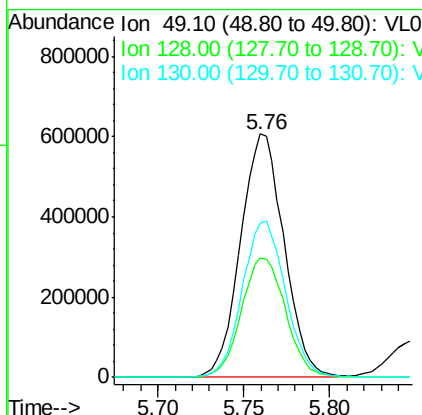
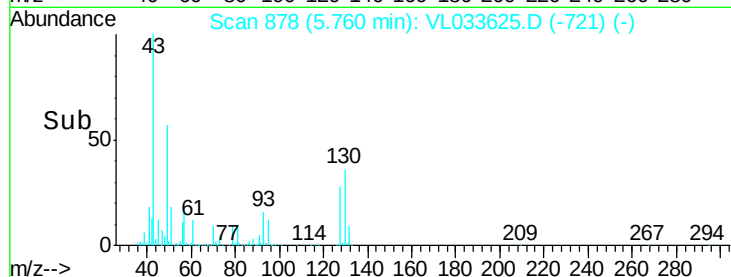
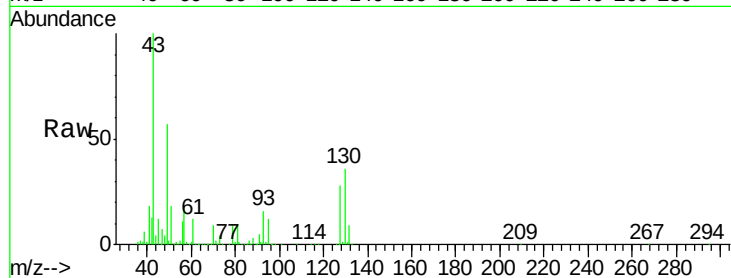
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 878
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0502ABS01

Tot Ion:	49	Resp:	1066956
Ion	Ratio	Lower	Upper
49	100		
128	50.0	25.0	75.0
130	63.9	31.9	95.9

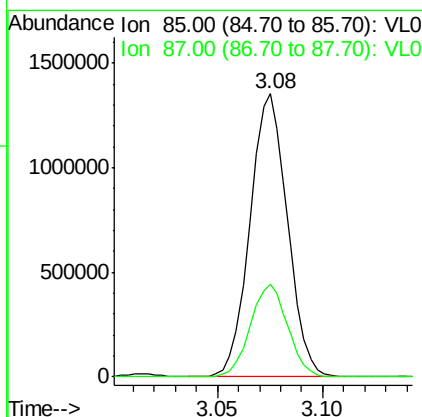
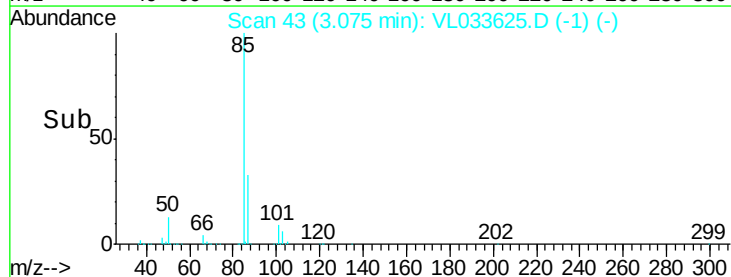
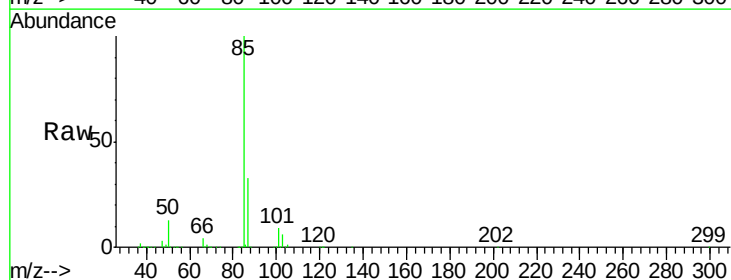
Manual Integrations
 APPROVED

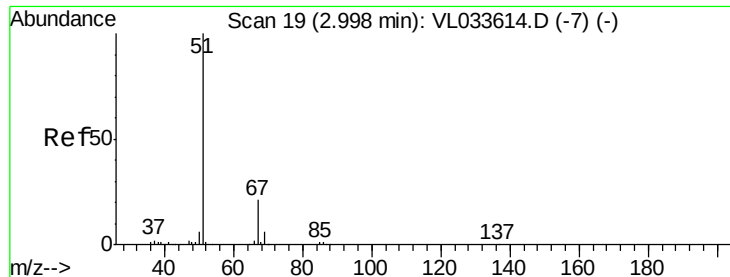
MMDadoda
 5/4/2019 7:18:26 AM



#2
 Dichlorodifluoromethane
 Concen: 10.344 ppbv
 RT: 3.08 min Scan# 43
 Delta R.T. 0.02 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Tgt Ion:	85	Resp:	1663198
Ion	Ratio	Lower	Upper
85	100		
87	32.6	26.8	40.2





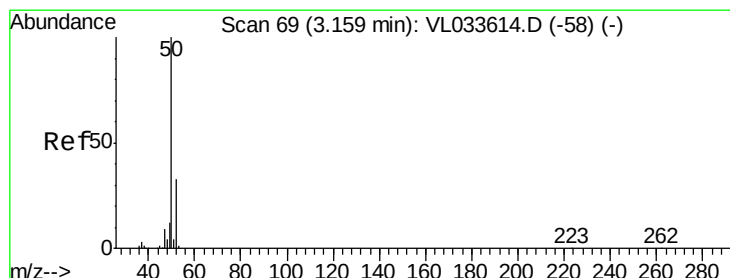
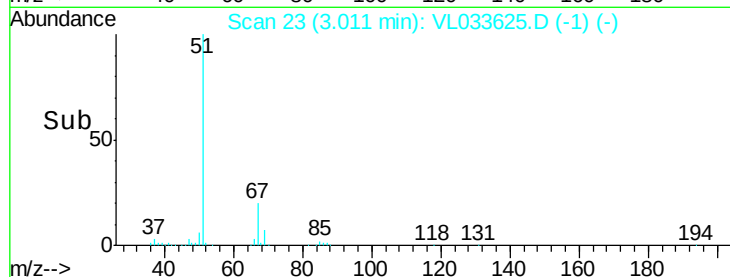
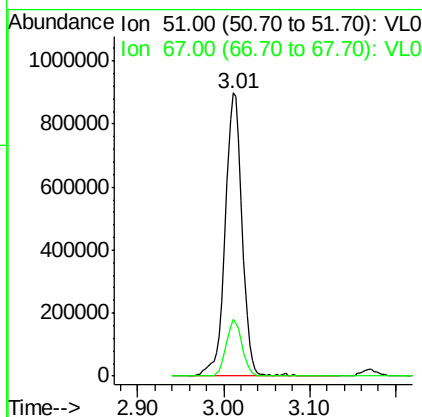
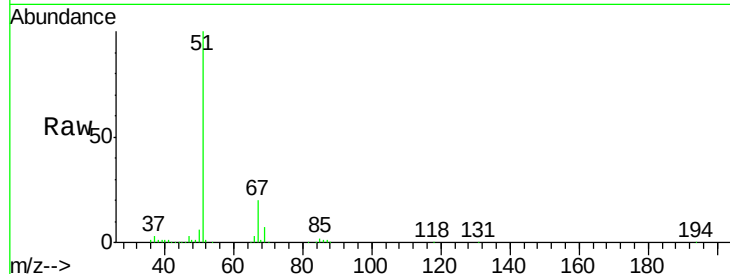
#3
Chlorodifluoromethane
Concen: 9.584 ppbv
RT: 3.01 min Scan# 23
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VL0502ABS01

Tot Ion: 51 Resp: 1222640
Ion Ratio Lower Upper
51 100
67 18.8 15.6 23.4

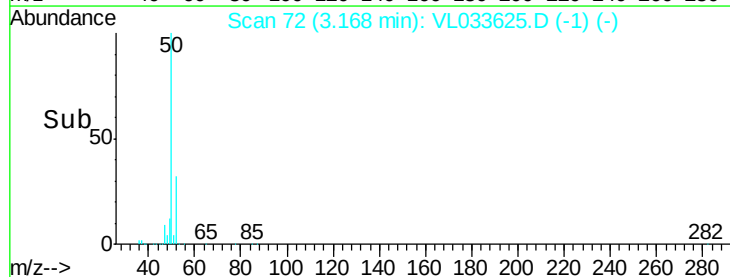
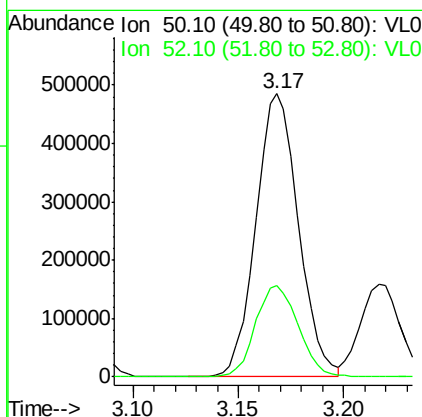
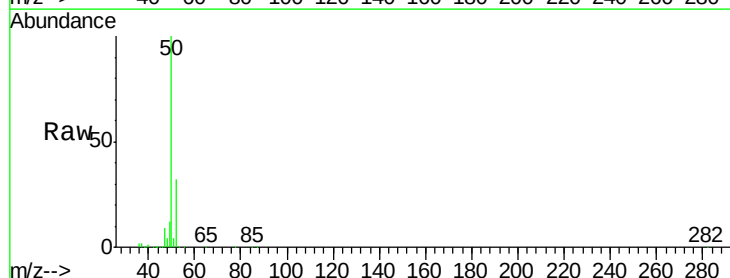
Manual Integrations
APPROVED

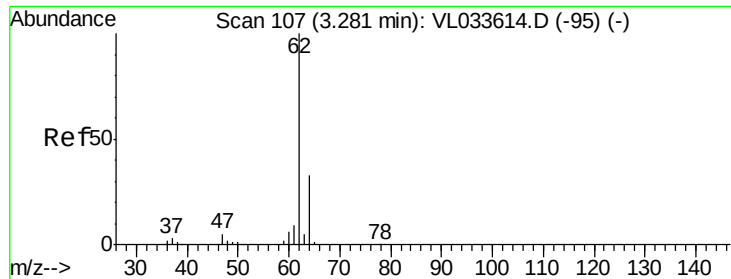
MMDadoda
5/4/2019 7:18:26 AM



#4
Chloromethane
Concen: 9.780 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Tgt Ion: 50 Resp: 679577
Ion Ratio Lower Upper
50 100
52 32.3 26.0 39.0





#5

Vinyl Chloride

Concen: 9.196 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VL0502ABS01

Tot Ion: 62 Resp: 670356

Ion Ratio Lower Upper

62 100

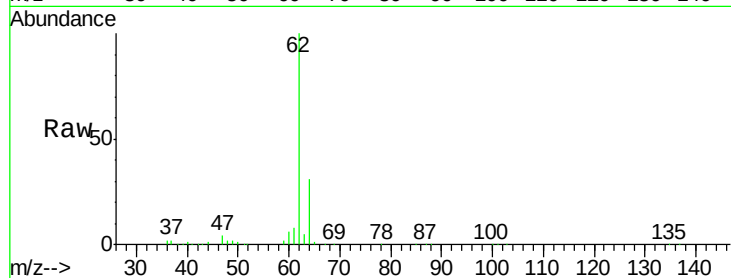
64 30.9 26.2 39.4

Manual Integrations

APPROVED

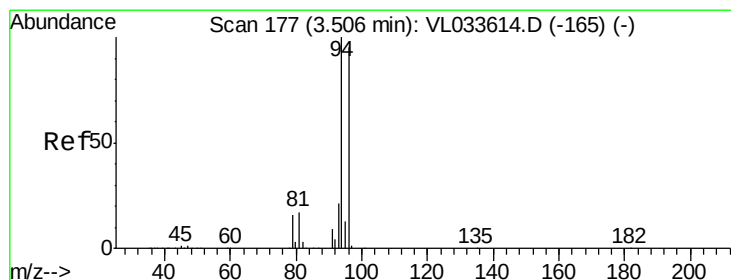
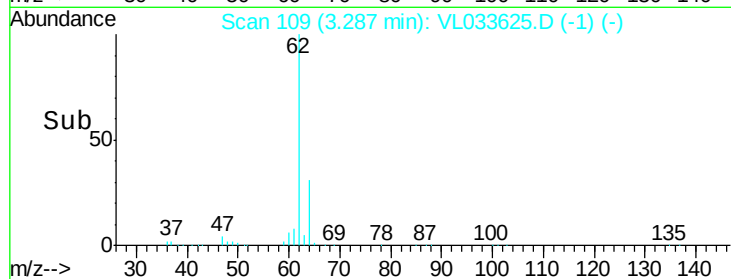
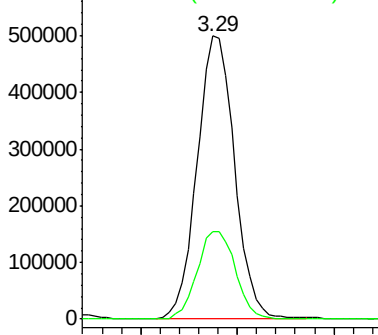
MMDadoda

5/4/2019 7:18:26 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.280 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.01 min

Lab File: VL033625.D

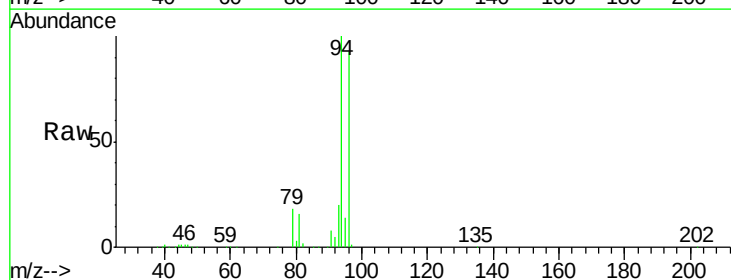
Acq: 2 May 2019 12:43

Tgt Ion: 94 Resp: 441028

Ion Ratio Lower Upper

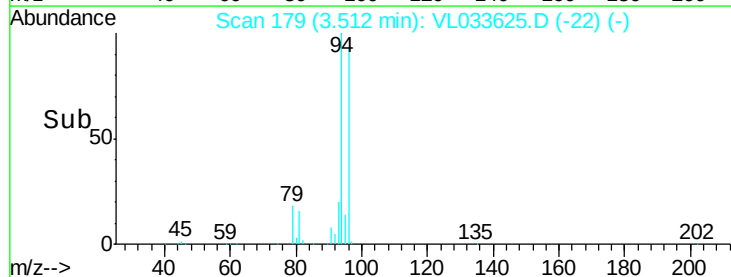
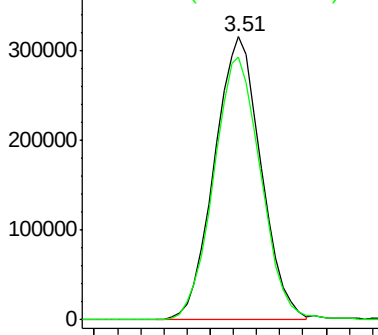
94 100

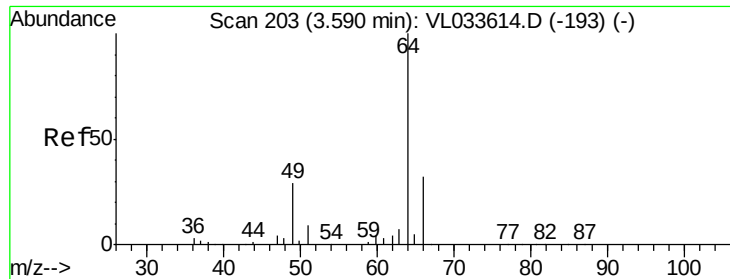
96 92.6 75.7 113.5



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.808 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VL0502ABS01

Tot Ion: 64 Resp: 262663

Ion Ratio Lower Upper

64 100

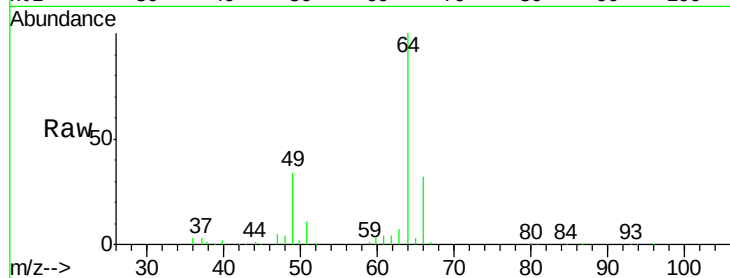
66 32.2 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

5/4/2019 7:18:26 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

200000

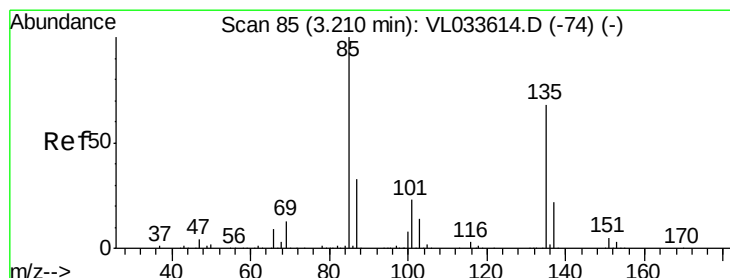
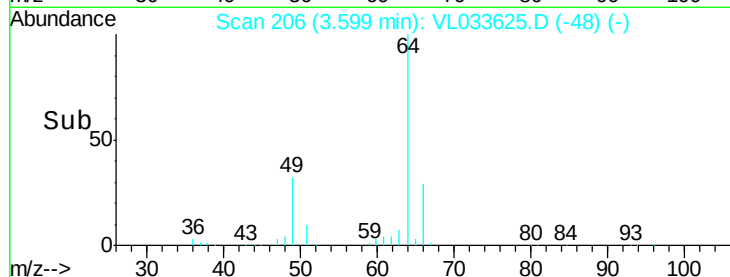
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.772 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.01 min

Lab File: VL033625.D

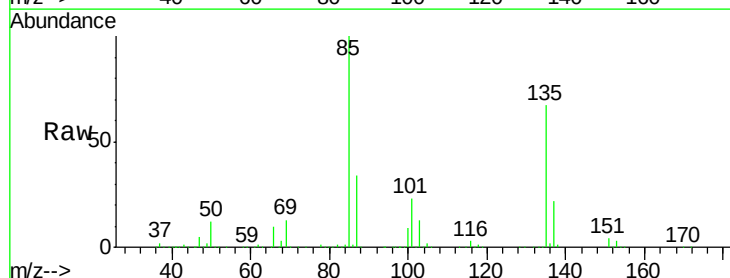
Acq: 2 May 2019 12:43

Tgt Ion: 85 Resp: 1709511

Ion Ratio Lower Upper

85 100

135 67.6 55.0 82.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

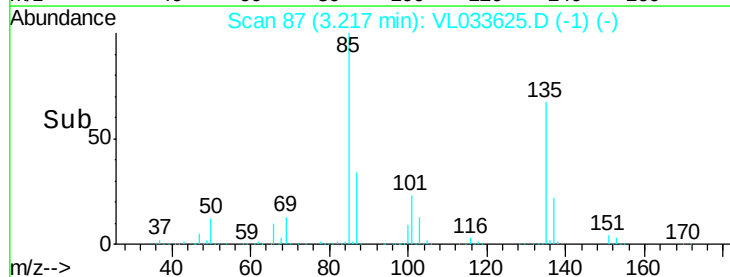
1500000

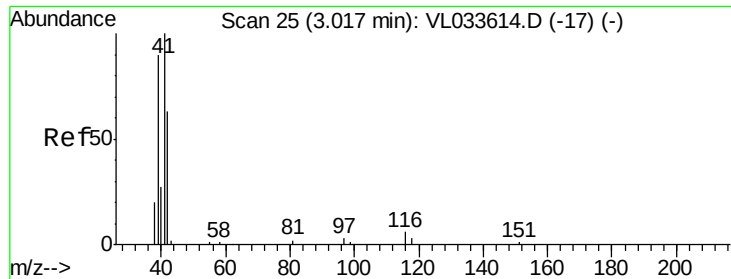
1000000

500000

0

Time-->





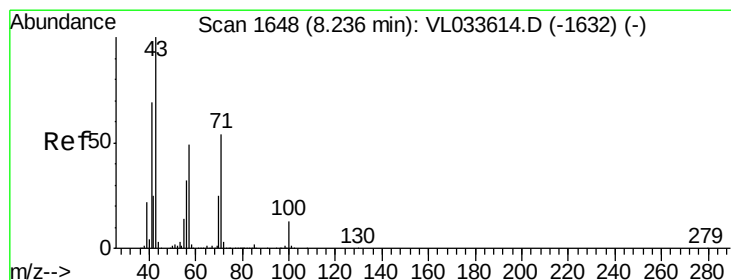
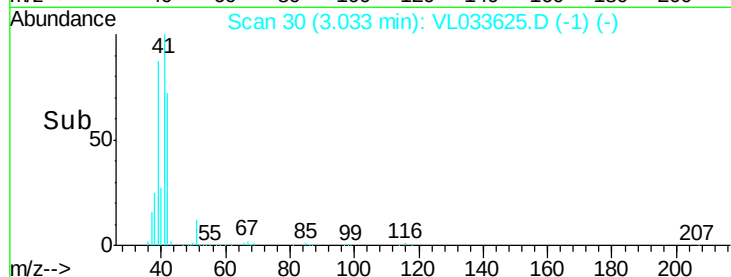
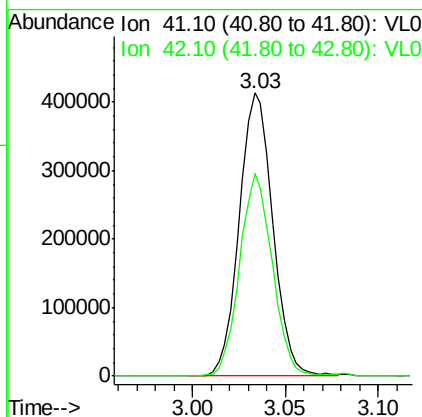
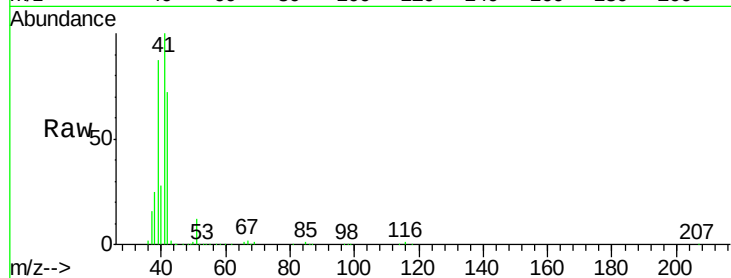
#9
 Propene
 Concen: 14.241 ppbv
 RT: 3.03 min Scan# 30
 Delta R.T. 0.02 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0502ABS01

Tot Ion: 41 Resp: 520190
 Ion Ratio Lower Upper
 41 100
 42 70.5 66.0 99.0

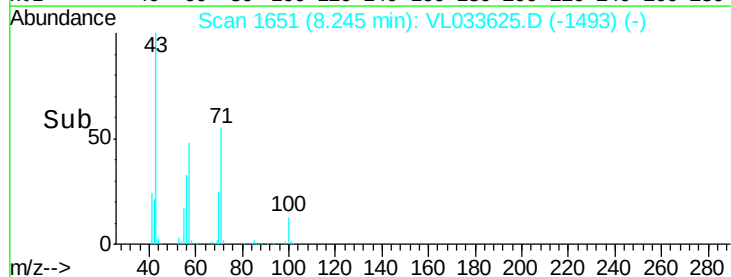
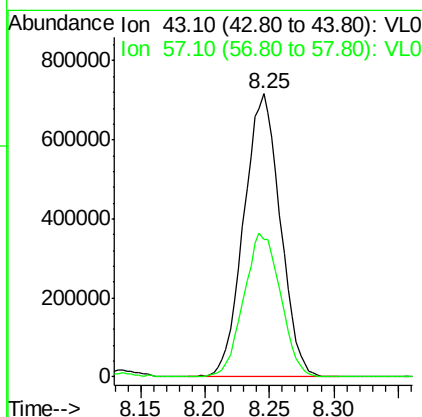
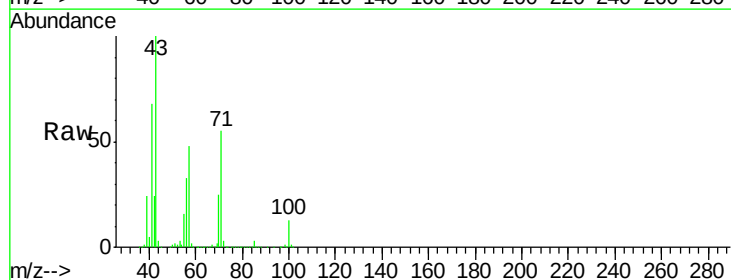
Manual Integrations
 APPROVED

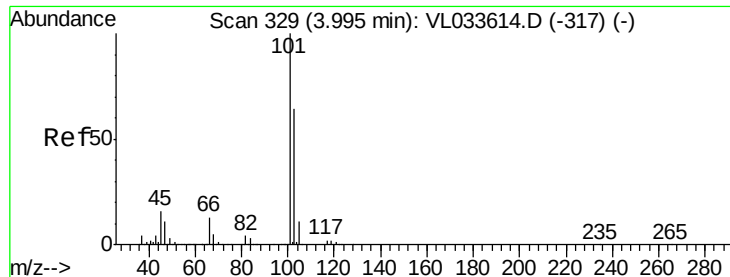
MMDadoda
 5/4/2019 7:18:26 AM



#10
 Heptane
 Concen: 10.400 ppbv
 RT: 8.25 min Scan# 1651
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Tgt Ion: 43 Resp: 1404803
 Ion Ratio Lower Upper
 43 100
 57 51.3 40.3 60.5





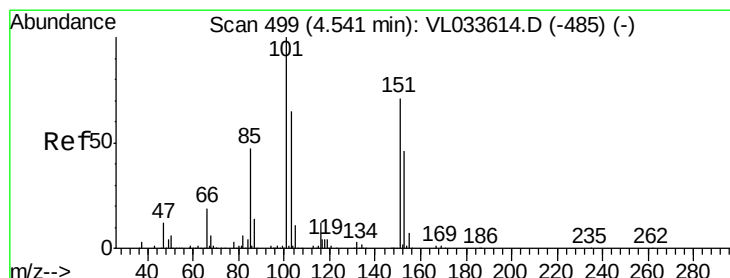
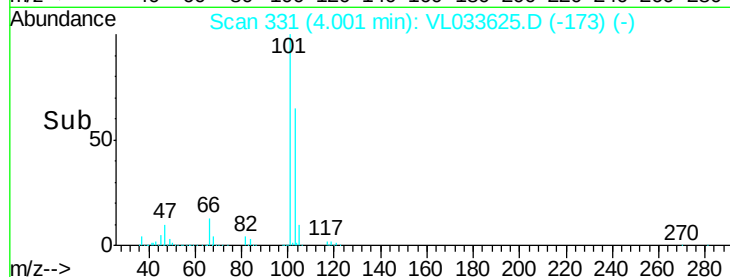
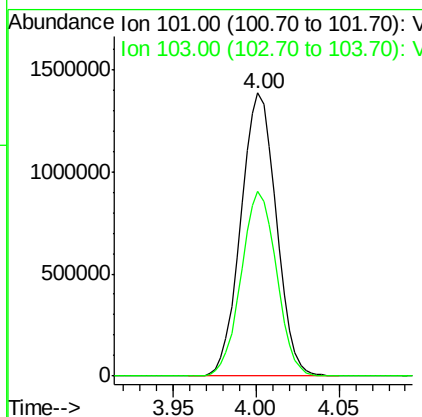
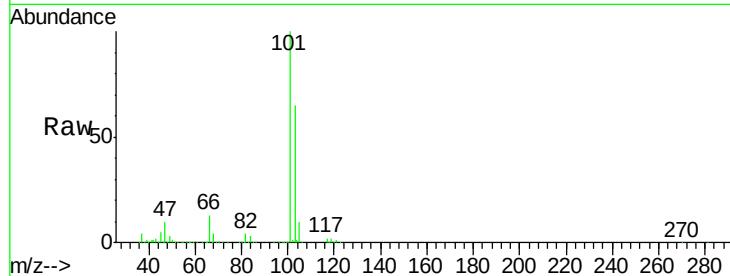
#11
 Trichlorofluoromethane
 Concen: 10.790 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0502ABS01

Tot Ion:101 Resp: 2062121
 Ion Ratio Lower Upper
 101 100
 103 65.5 51.2 76.8

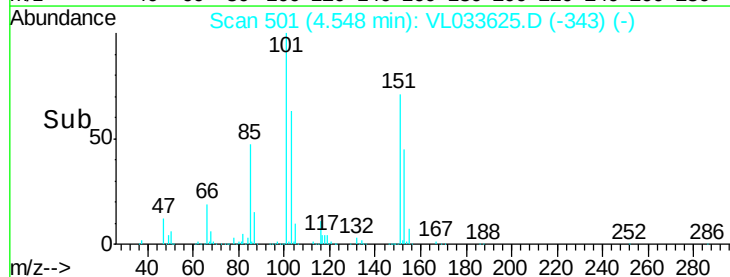
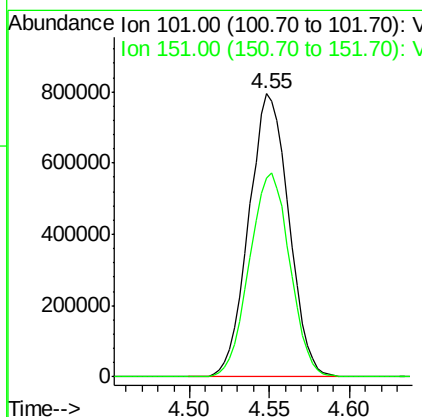
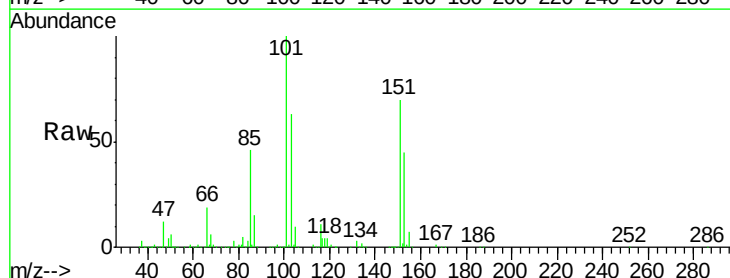
Manual Integrations
 APPROVED

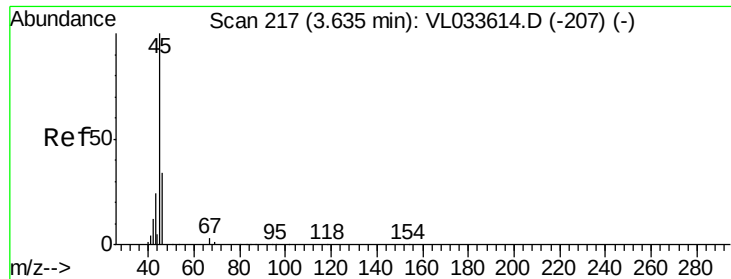
MMDadoda
 5/4/2019 7:18:26 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.397 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Tgt Ion:101 Resp: 1362815
 Ion Ratio Lower Upper
 101 100
 151 72.9 59.2 88.8





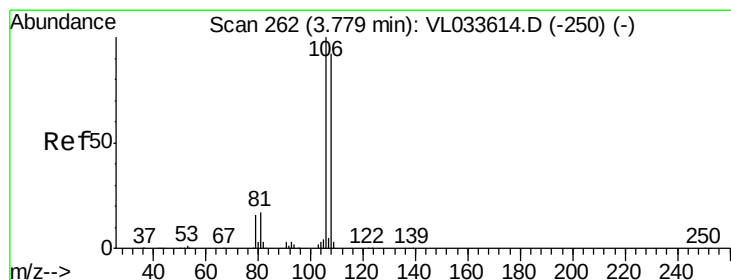
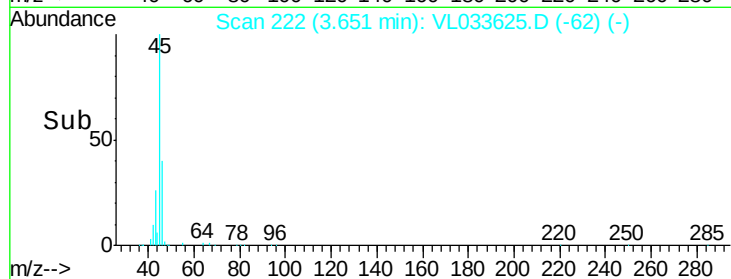
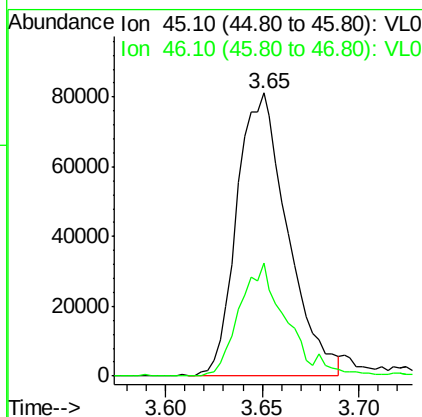
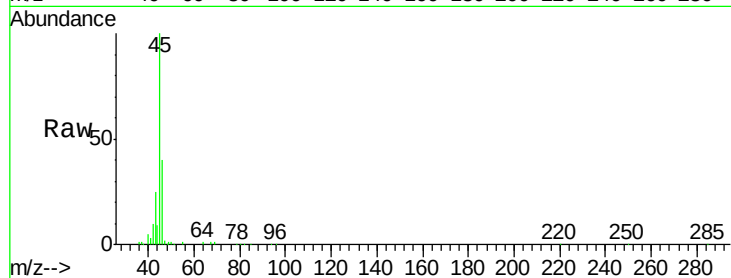
#13
Ethanol
Concen: 8.922 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.02 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VL0502ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.2	14.6	58.2

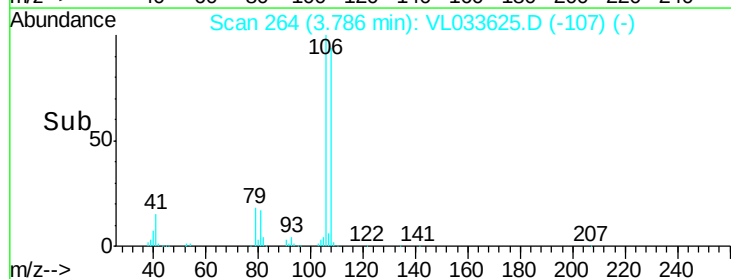
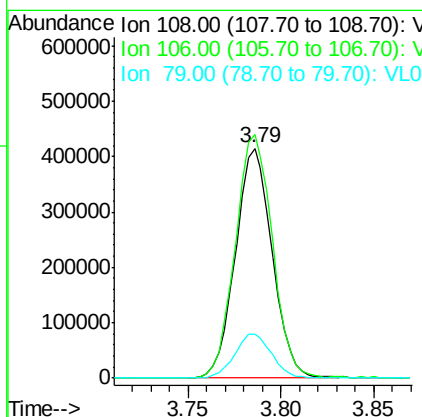
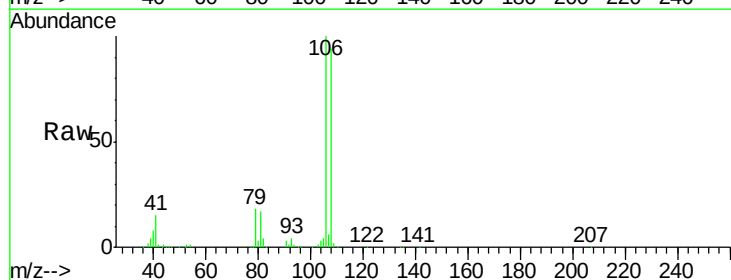
Manual Integrations
APPROVED

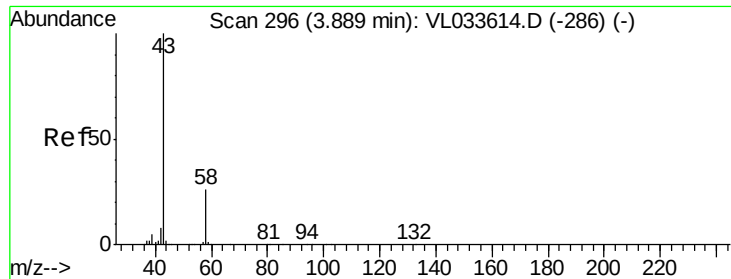
MMDadoda
5/4/2019 7:18:26 AM



#14
Bromoethene
Concen: 10.612 ppbv
RT: 3.79 min Scan# 264
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.8	84.6	127.0
79	19.5	14.4	21.6





#15

Acetone

Concen: 9.898 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VL0502ABS01

Tot Ion: 43 Resp: 1285744

Ion Ratio Lower Upper

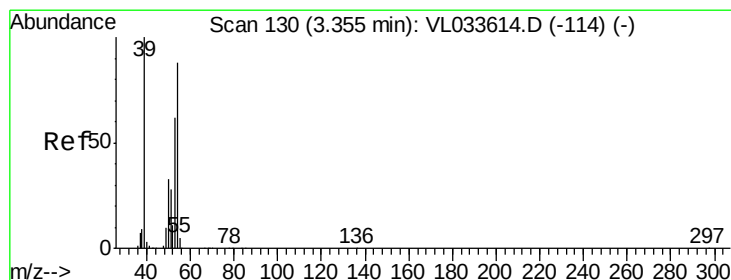
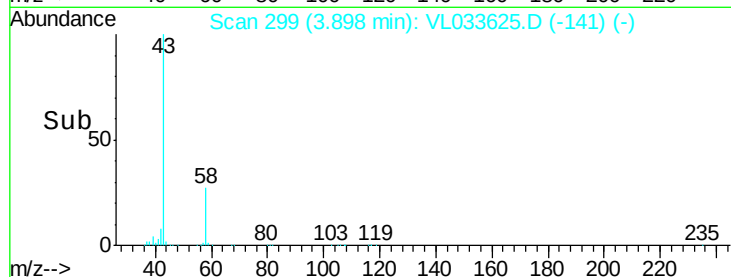
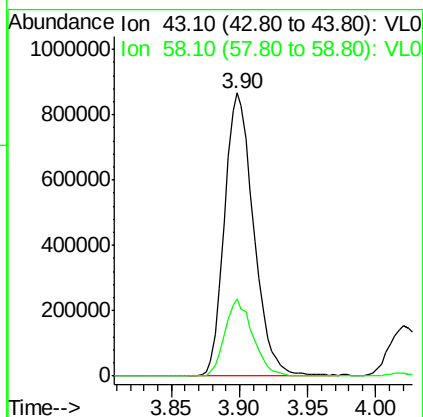
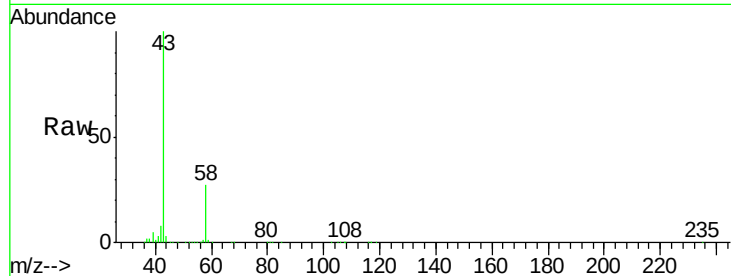
43 100

58 26.2 21.2 31.8

Manual Integrations
APPROVED

MMDadoda

5/4/2019 7:18:26 AM



#16

1,3-Butadiene

Concen: 10.771 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.01 min

Lab File: VL033625.D

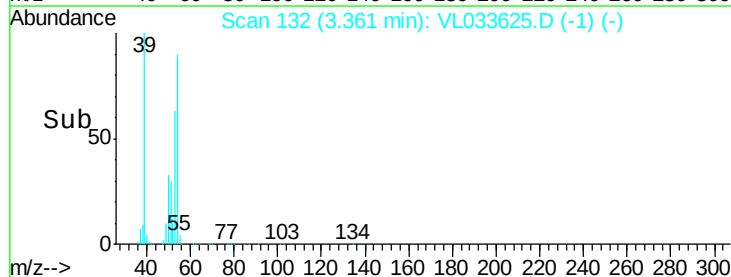
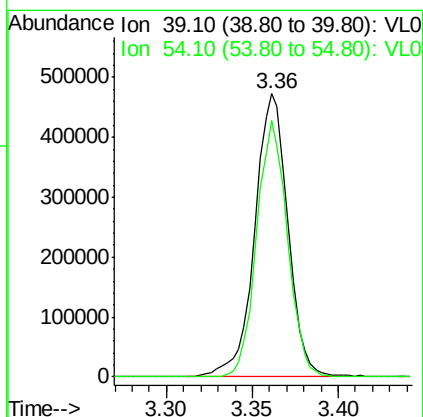
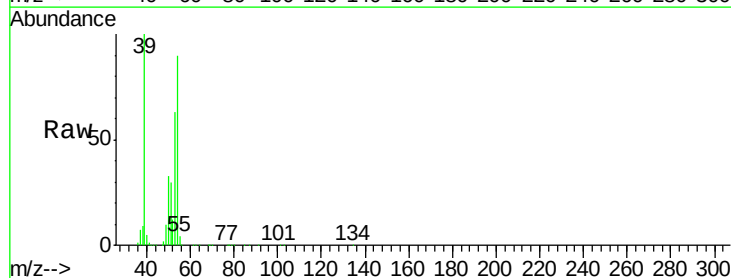
Acq: 2 May 2019 12:43

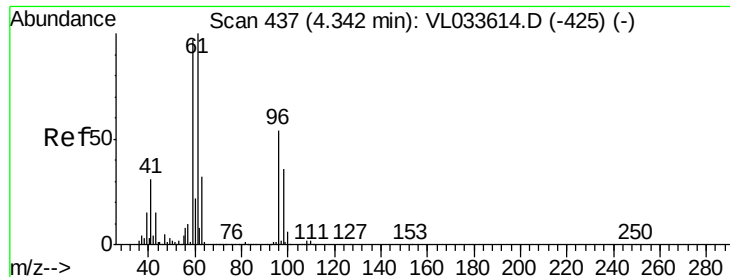
Tgt Ion: 39 Resp: 629677

Ion Ratio Lower Upper

39 100

54 84.4 68.4 102.6





#17

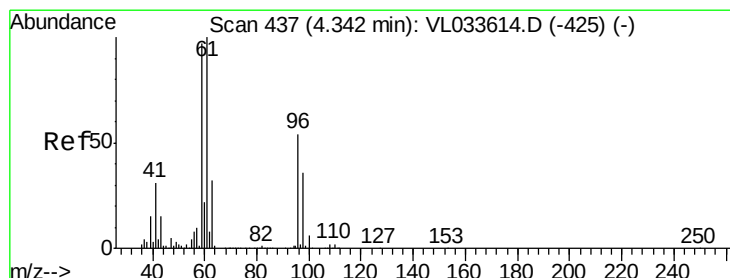
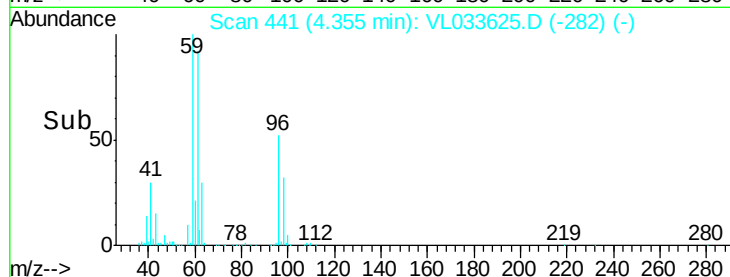
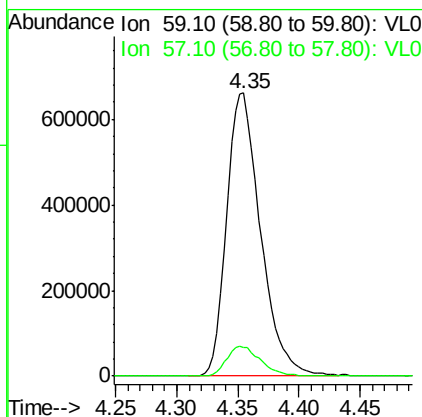
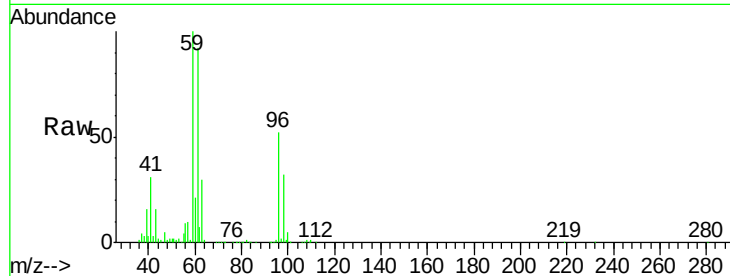
tert-Butyl alcohol
 Concen: 11.453 ppbv
 RT: 4.35 min Scan# 441
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0502ABS01

Tot Ion: 59 Resp: 1284553
 Ion Ratio Lower Upper
 59 100
 57 10.6 8.4 12.6

Manual Integrations
 APPROVED

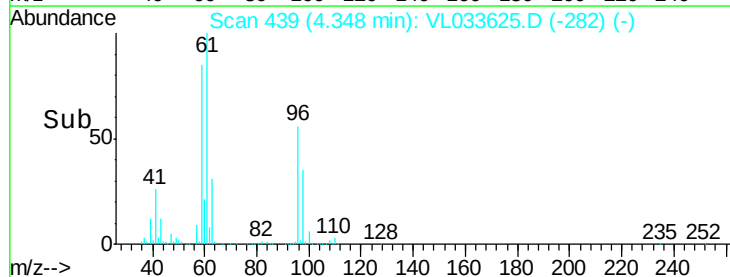
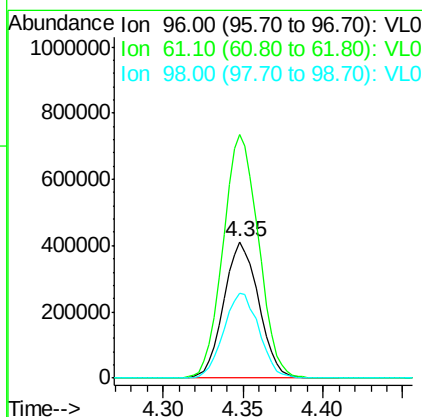
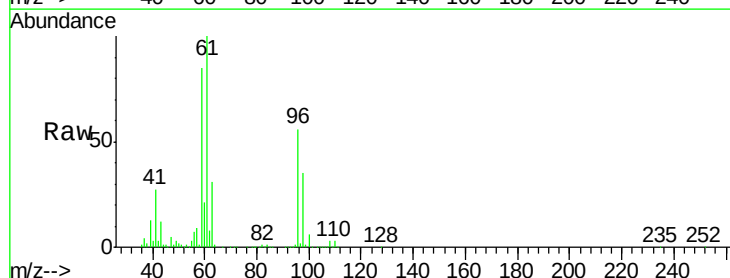
MMDadoda
 5/4/2019 7:18:26 AM

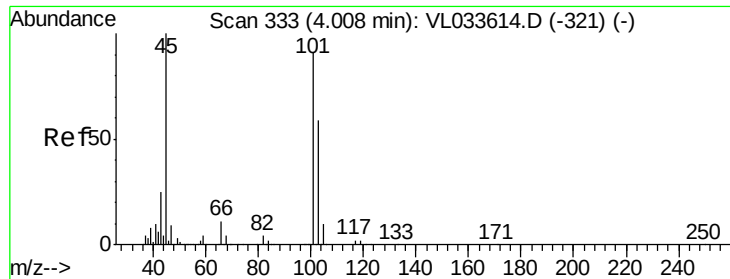


#18

1,1-Dichloroethene
 Concen: 10.713 ppbv
 RT: 4.35 min Scan# 439
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Tgt Ion: 96 Resp: 610223
 Ion Ratio Lower Upper
 96 100
 61 178.2 147.3 220.9
 98 62.3 53.6 80.4





#19

Isopropyl Alcohol

Concen: 11.635 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Tot Ion: 45 Resp: 1037298

Ion Ratio Lower Upper

45 100

58 2.0 1.8 2.6

Instrument :

MSVOA_L

ClientSampleId :

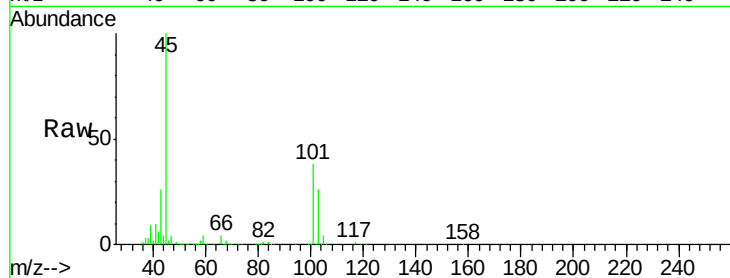
VL0502ABS01

Manual Integrations

APPROVED

MMDadoda

5/4/2019 7:18:26 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

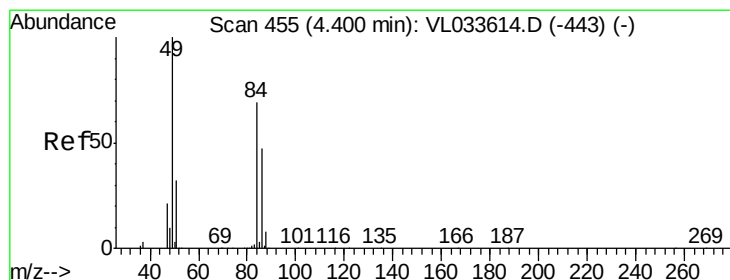
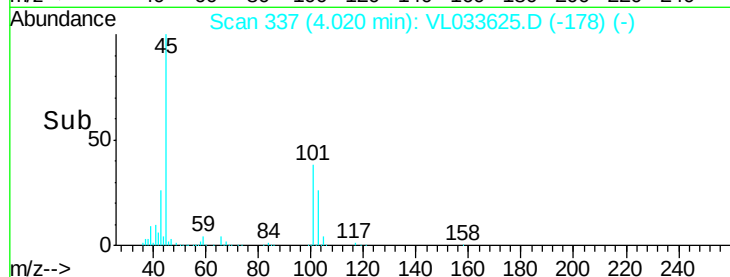
600000

400000

200000

0

Time-->



#20

Methylene Chloride

Concen: 10.017 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Tgt Ion: 84 Resp: 507118

Ion Ratio Lower Upper

84 100

49 142.4 116.2 174.2

51 44.0 37.0 55.6

86 67.0 54.0 81.0

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

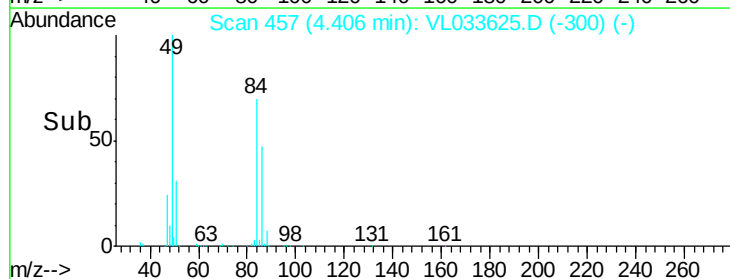
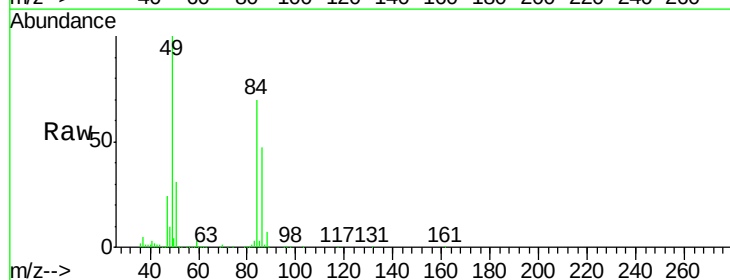
600000

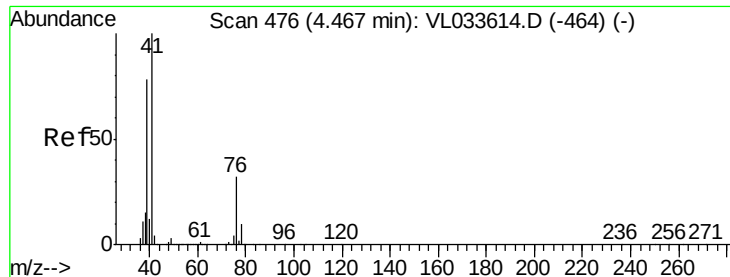
400000

200000

0

Time-->





#21

Allvl Chloride

Concen: 10.950 ppbv

RT: 4.48 min Scan# 479

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Instrument :

MSVOA_L

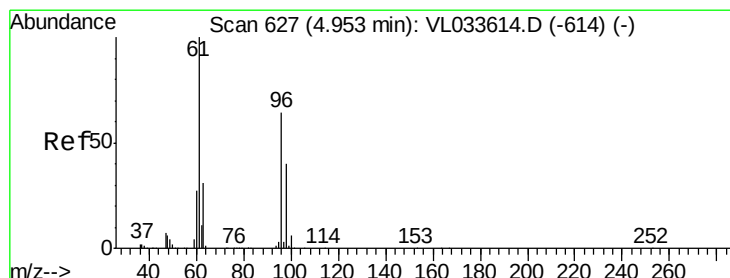
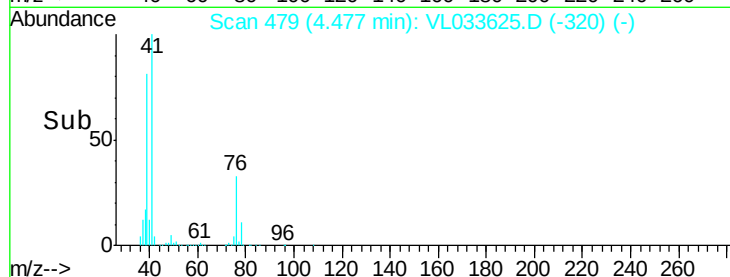
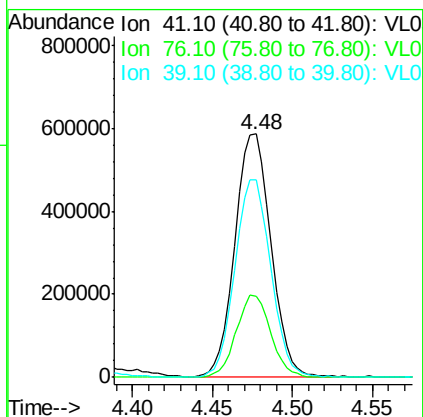
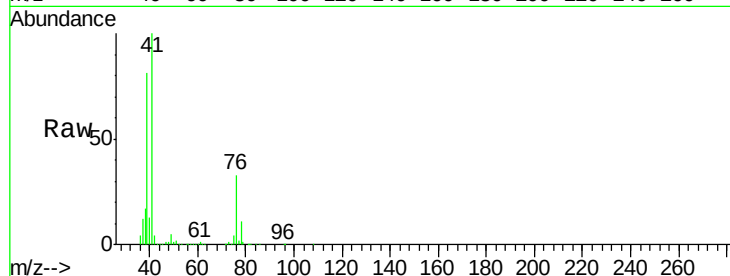
ClientSampleId :

VL0502ABS01

Tot Ion:	41	Resp:	894747
Ion Ratio	Lower	Upper	
41	100		
76	32.3	25.0	37.6
39	80.6	64.6	96.8

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:18:26 AM



#22

trans-1,2-Dichloroethene

Concen: 11.145 ppbv

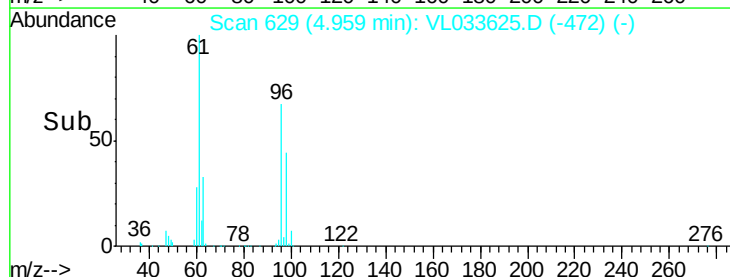
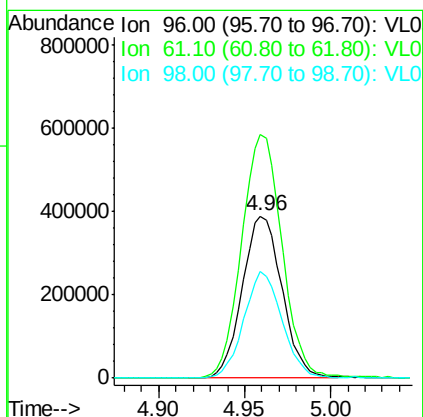
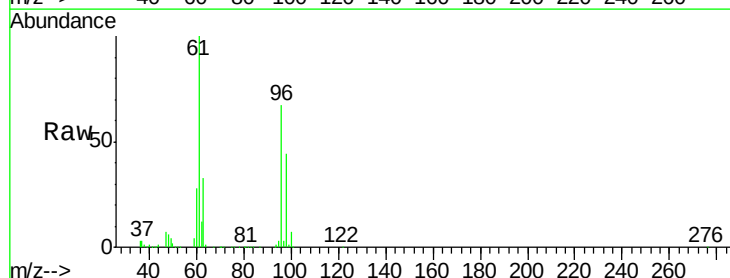
RT: 4.96 min Scan# 629

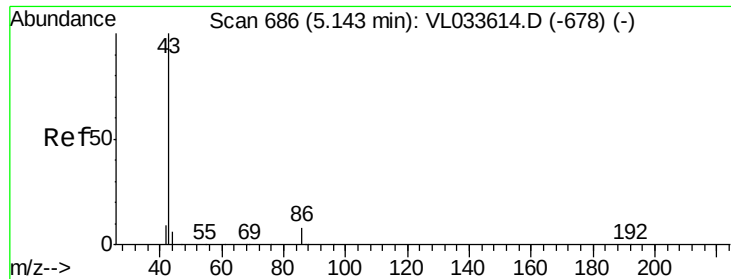
Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Tgt Ion:	96	Resp:	621735
Ion Ratio	Lower	Upper	
96	100		
61	150.2	124.9	187.3
98	66.0	50.5	75.7





#23

Vinyl Acetate

Concen: 10.492 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VL0502ABS01

Tot Ion: 43 Resp: 2026736

Ion Ratio Lower Upper

43 100

86 7.4 5.8 8.8

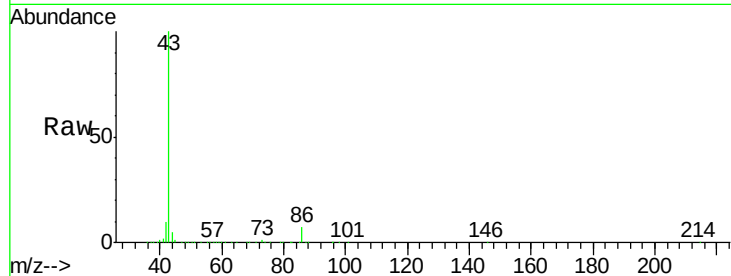
42 9.5 7.8 11.8

44 5.2 4.6 7.0

Manual Integrations
APPROVED

MMDadoda

5/4/2019 7:18:26 AM

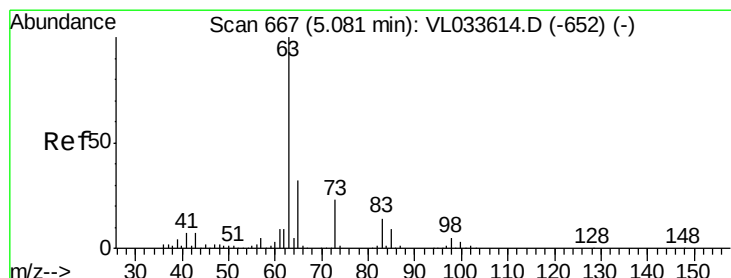
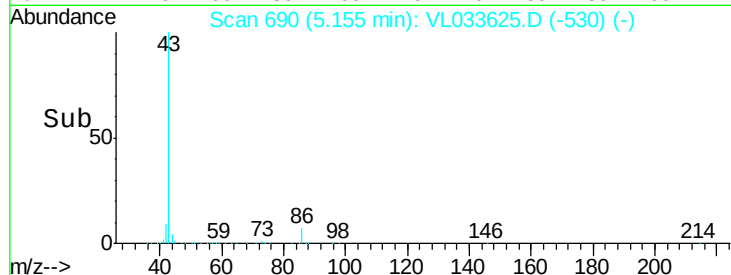
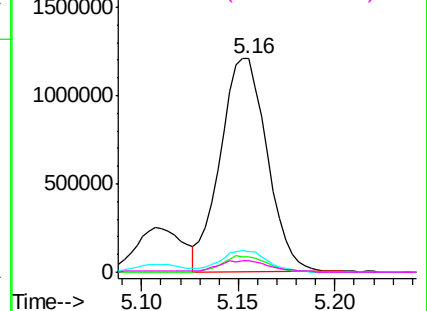


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.757 ppbv

RT: 5.09 min Scan# 669

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

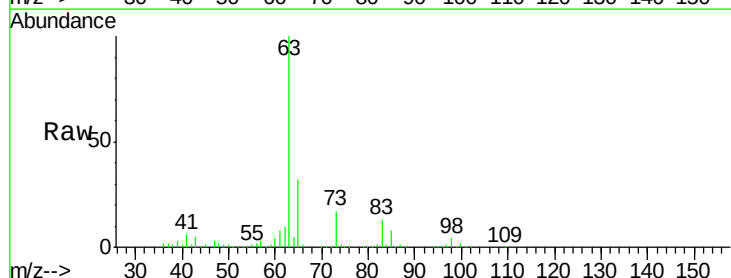
Tgt Ion: 63 Resp: 1403053

Ion Ratio Lower Upper

63 100

98 4.2 2.4 7.2

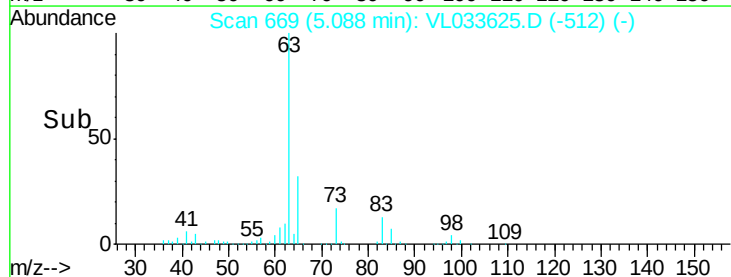
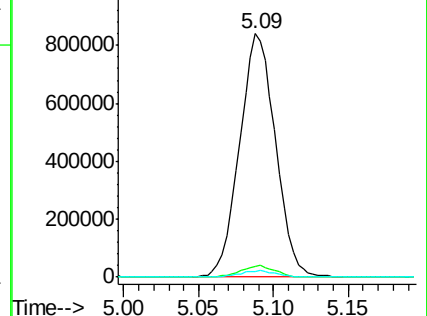
100 2.4 1.4 4.0

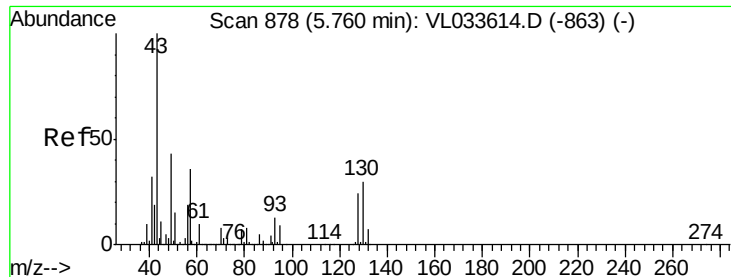


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.632 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Tot Ion: 43 Resp: 2374604

Ion Ratio Lower Upper

43 100

45 9.9 8.1 12.1

61 9.6 7.5 11.3

70 7.2 5.8 8.6

Instrument :

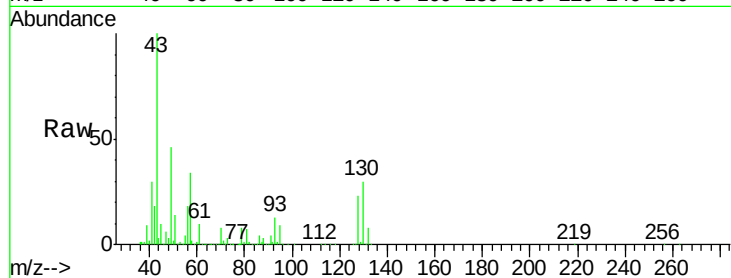
MSVOA_L

ClientSampleId :

VL0502ABS01

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:18:26 AM

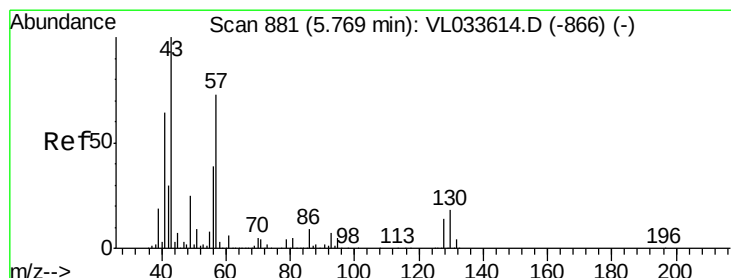
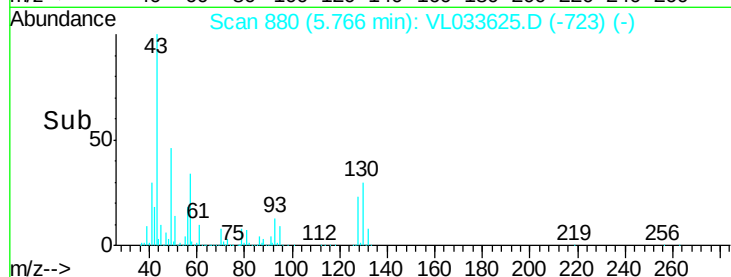
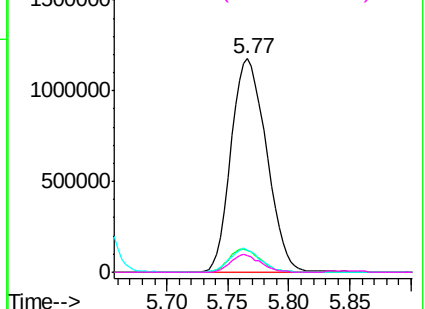


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.944 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Tgt Ion: 57 Resp: 1032295

Ion Ratio Lower Upper

57 100

41 88.0 70.6 106.0

43 230.9 186.0 279.0

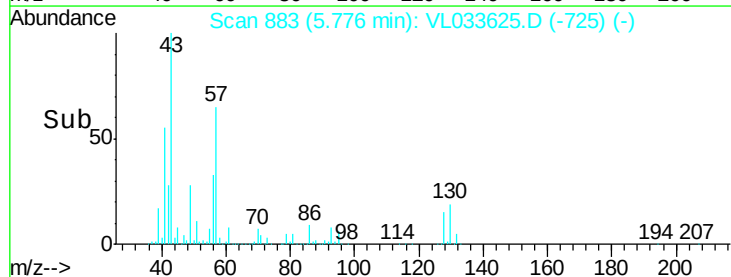
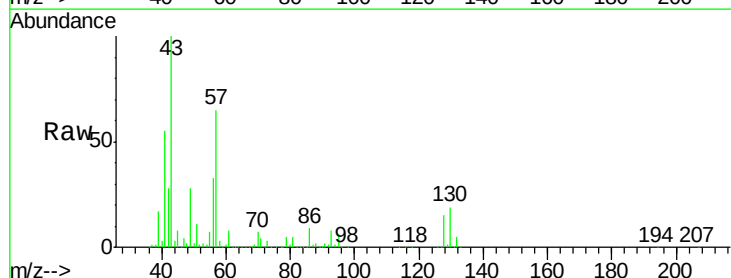
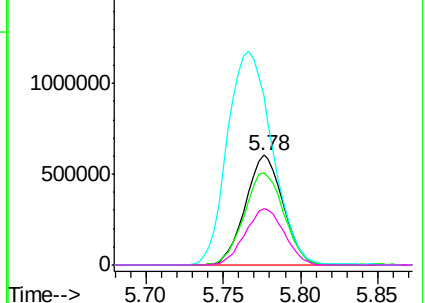
56 53.3 42.7 64.1

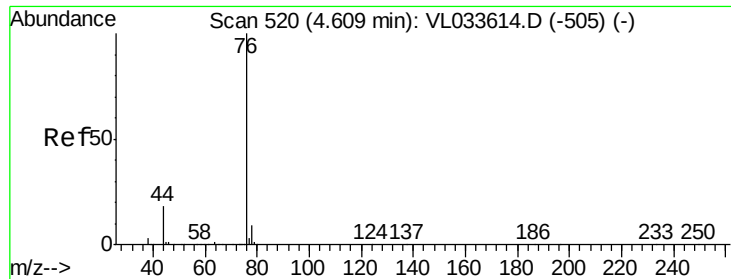
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.890 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VL0502ABS01

Tot Ion: 76 Resp: 1494762

Ion Ratio Lower Upper

76 100

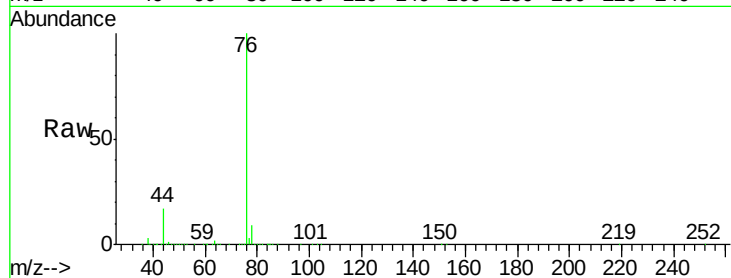
44 17.5 14.3 21.5

78 9.5 7.5 11.3

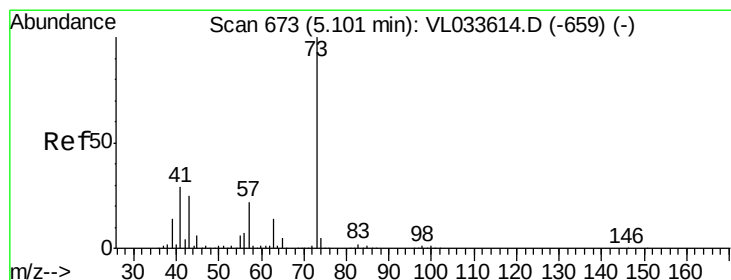
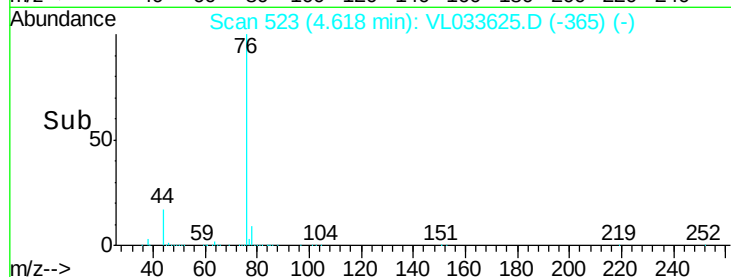
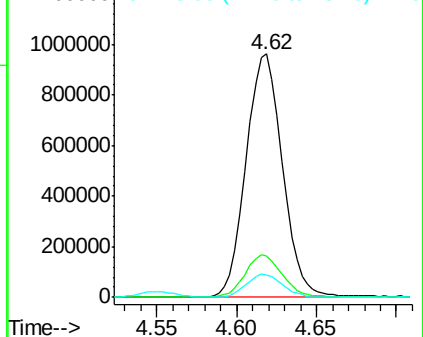
Manual Integrations
APPROVED

MMDadoda

5/4/2019 7:18:26 AM



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.371 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.01 min

Lab File: VL033625.D

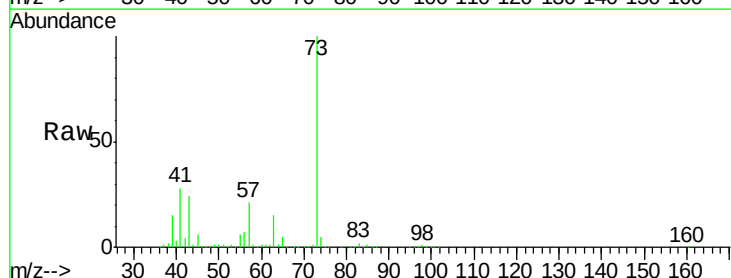
Acq: 2 May 2019 12:43

Tgt Ion: 73 Resp: 1815524

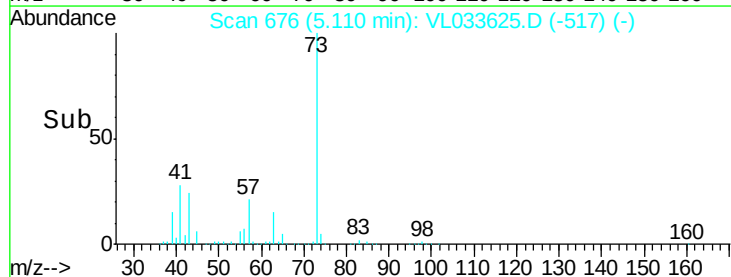
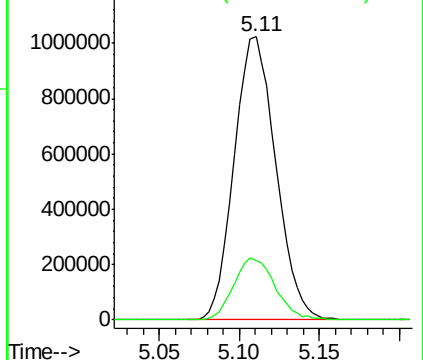
Ion Ratio Lower Upper

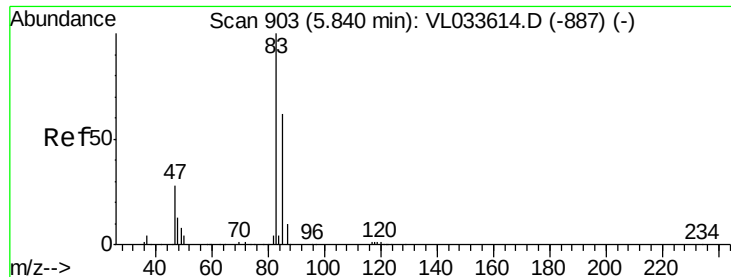
73 100

57 22.0 17.8 26.8



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





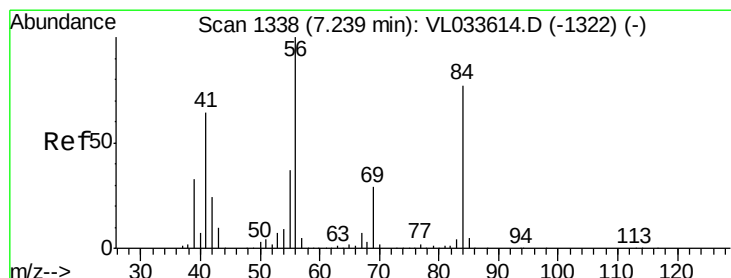
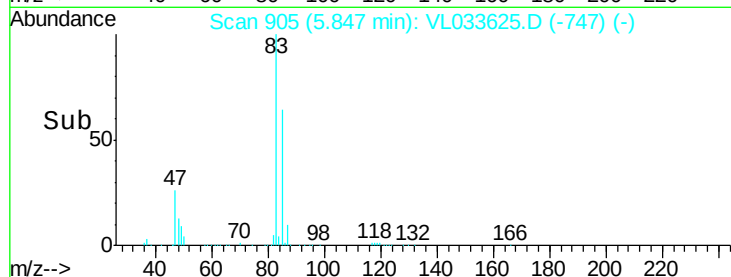
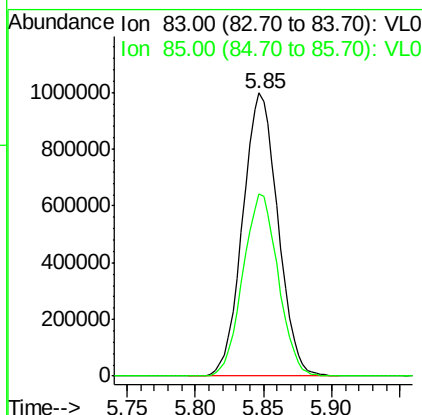
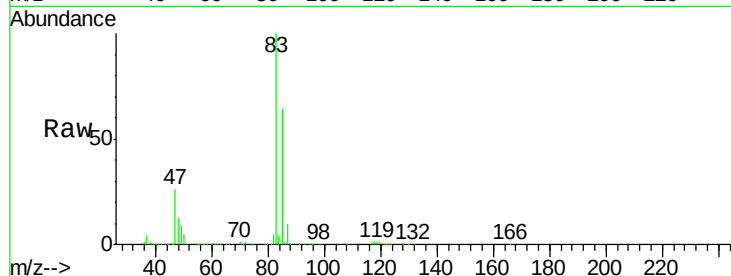
#29
Chloroform
Concen: 9.414 ppbv
RT: 5.85 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VL0502ABS01

Tot Ion: 83 Resp: 1790985
Ion Ratio Lower Upper
83 100
85 64.2 49.9 74.9

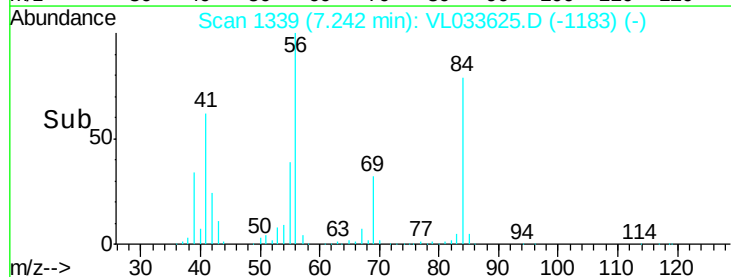
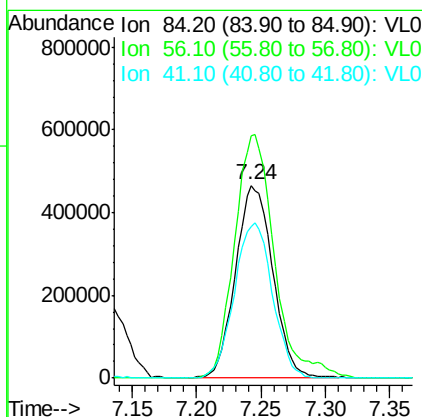
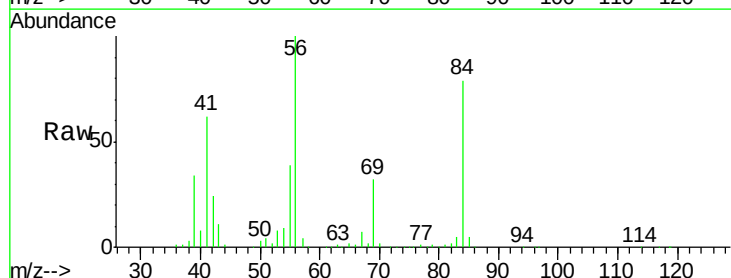
Manual Integrations
APPROVED

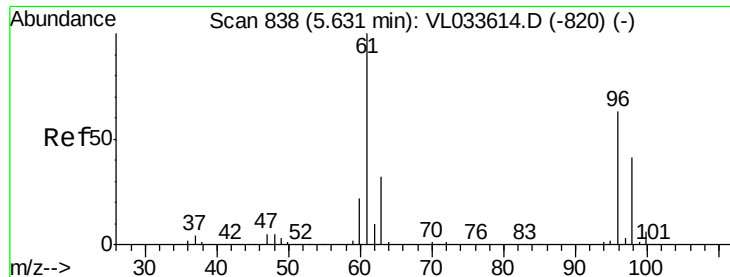
MMDadoda
5/4/2019 7:18:26 AM



#30
Cyclohexane
Concen: 10.715 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. 0.00 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Tgt Ion: 84 Resp: 941651
Ion Ratio Lower Upper
84 100
56 134.4 108.4 162.6
41 82.0 67.0 100.4





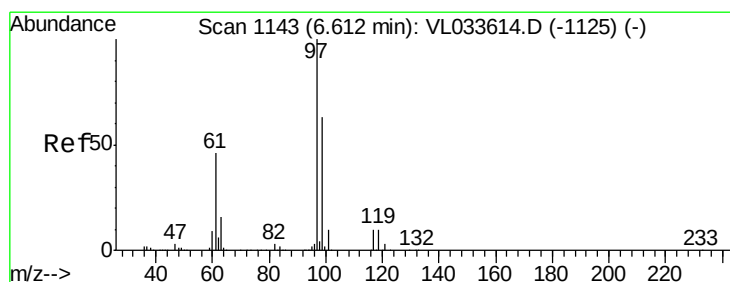
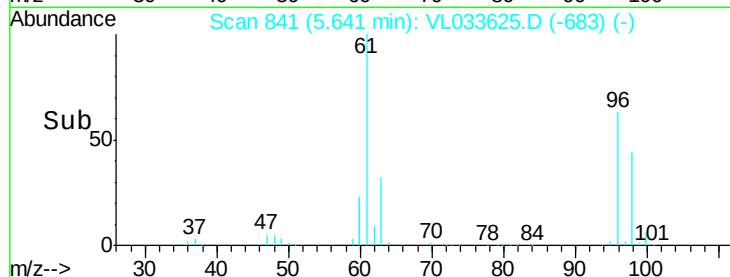
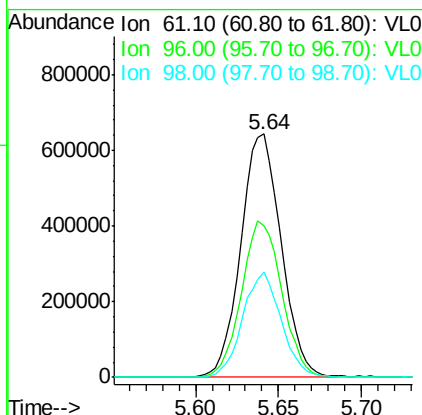
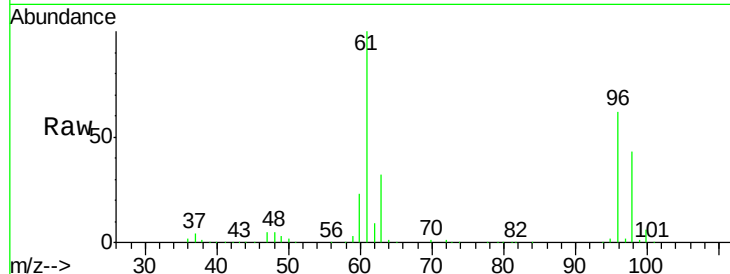
#31
 cis-1,2-Dichloroethene
 Concen: 10.428 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0502ABS01

Tot Ion: 61 Resp: 1092579
 Ion Ratio Lower Upper
 61 100
 96 62.4 50.6 76.0
 98 43.4 32.8 49.2

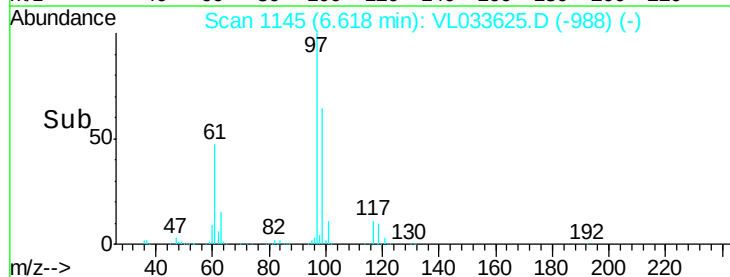
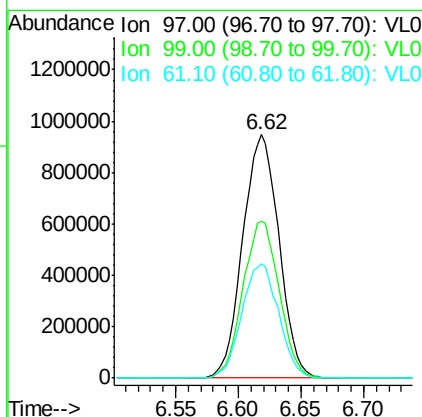
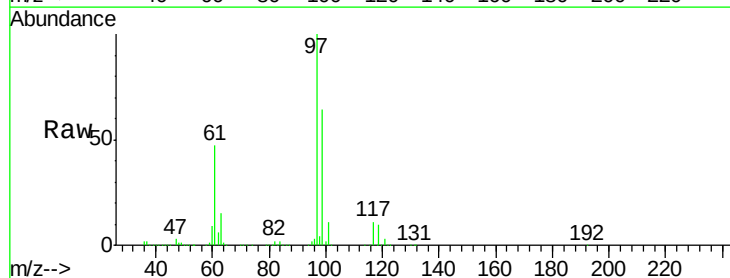
Manual Integrations
 APPROVED

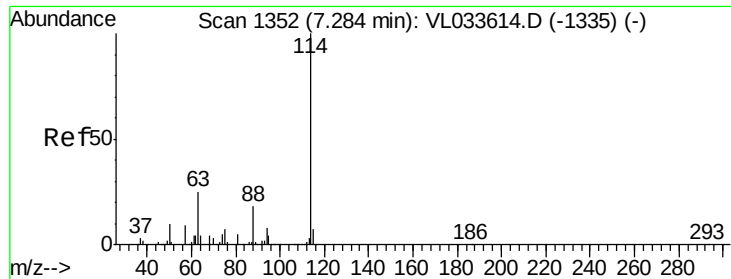
MMDadoda
 5/4/2019 7:18:26 AM



#32
 1,1,1-Trichloroethane
 Concen: 9.566 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Tgt Ion: 97 Resp: 1904834
 Ion Ratio Lower Upper
 97 100
 99 64.4 51.9 77.9
 61 48.0 38.2 57.2





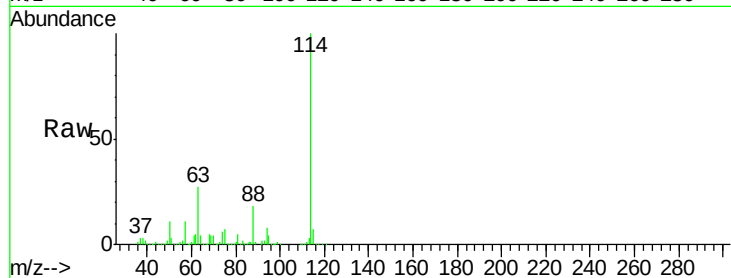
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0502ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.1	31.7
88	18.2	14.2	21.4

Manual Integrations
 APPROVED

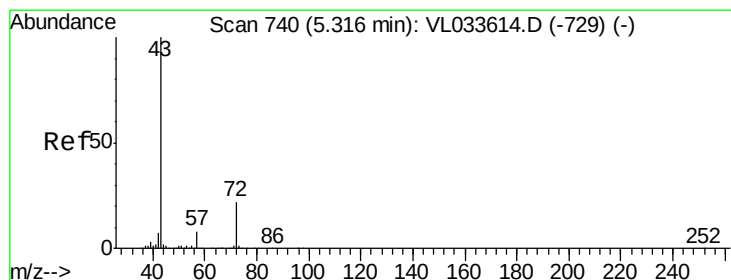
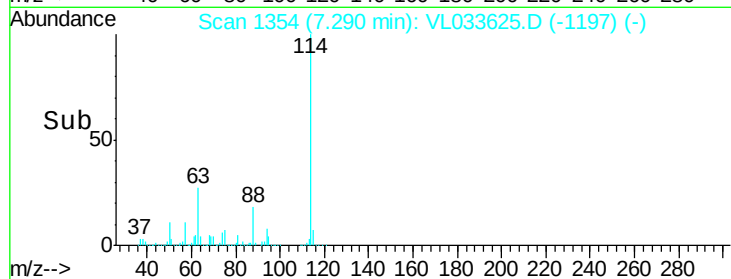
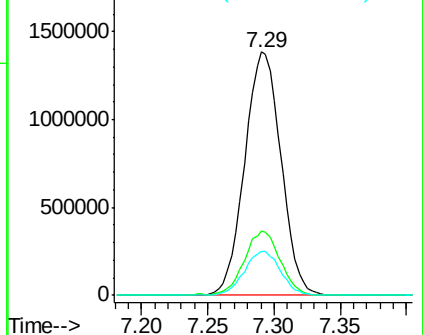
MMDadoda
 5/4/2019 7:18:26 AM



Abundance Ion 114.10 (113.80 to 114.80): VL0

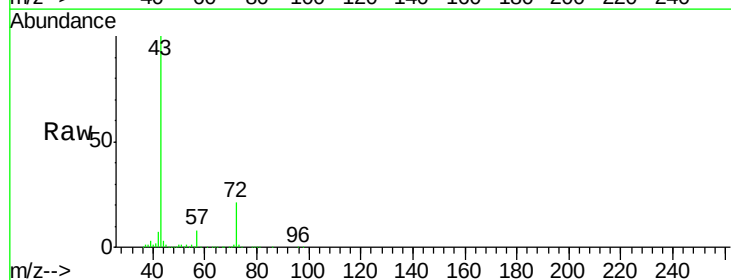
Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



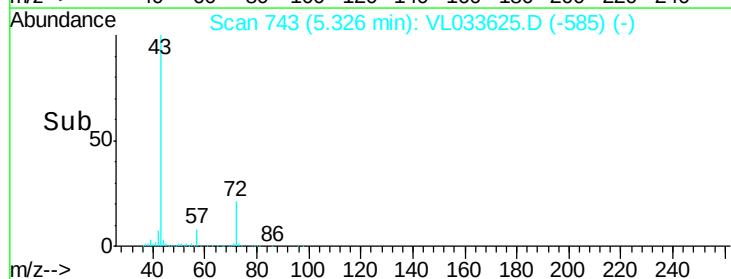
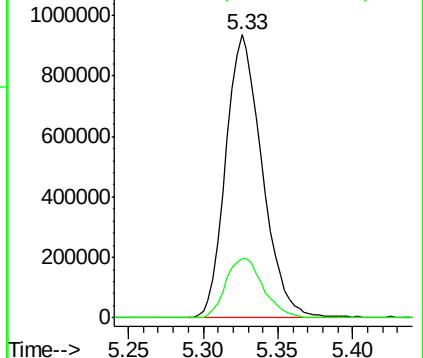
#34
 2-Butanone
 Concen: 9.749 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

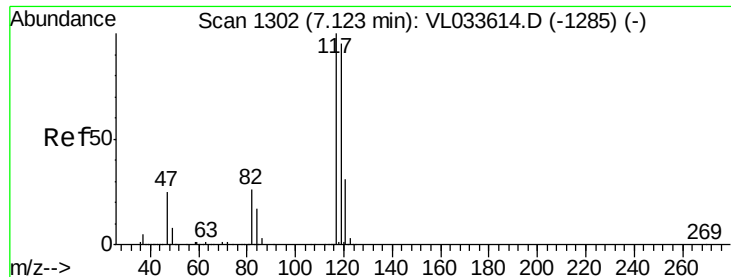
Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.9	17.8	26.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





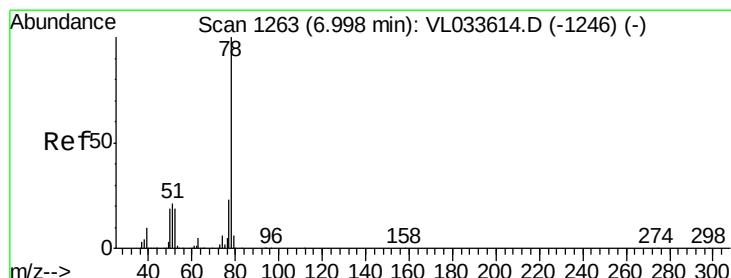
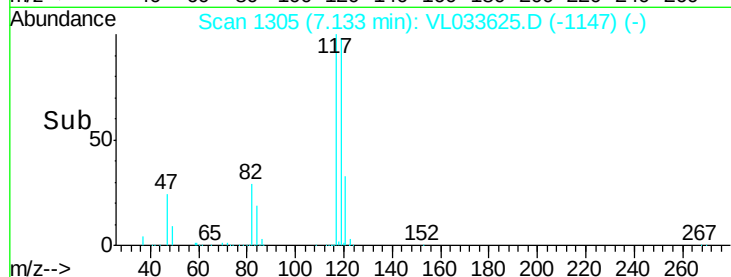
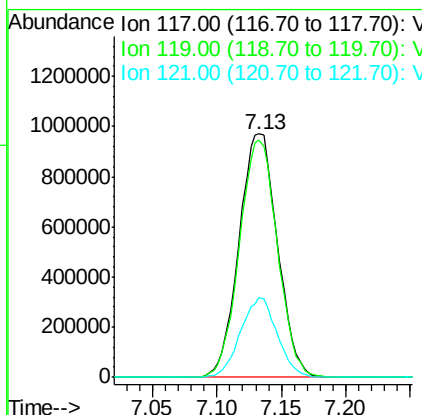
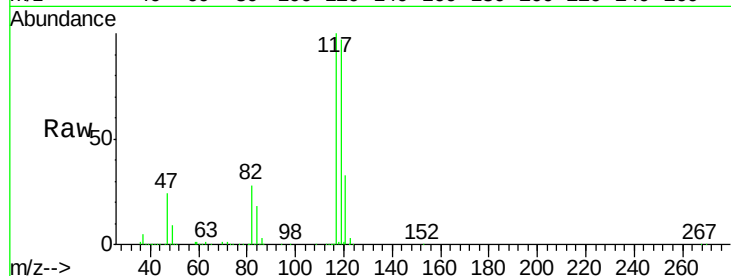
#35
Carbon Tetrachloride
Concen: 9.639 ppbv
RT: 7.13 min Scan# 1305
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VL0502ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
119	97.4	76.2	114.4
121	32.6	24.9	37.3

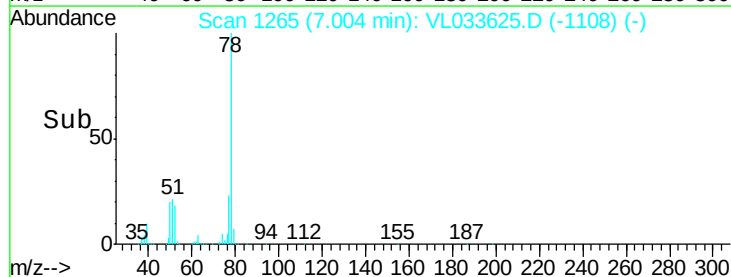
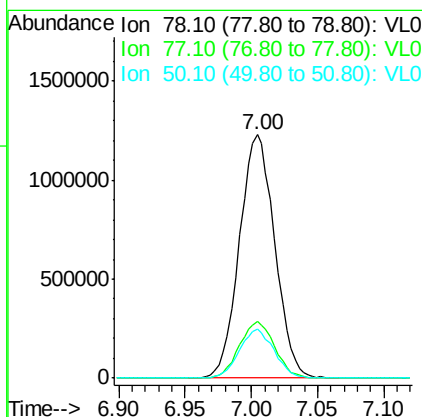
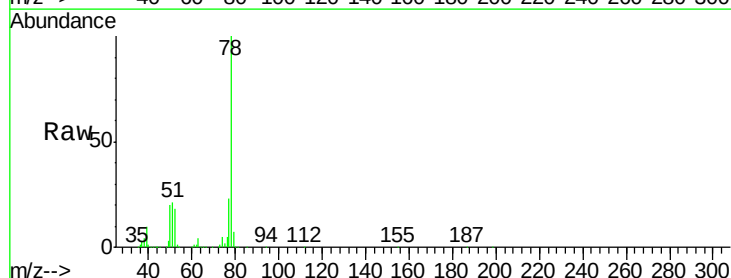
Manual Integrations
APPROVED

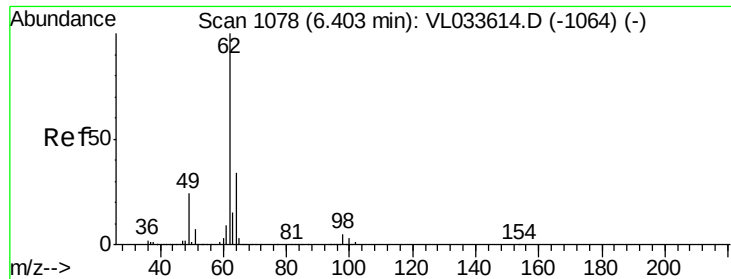
MMDadoda
5/4/2019 7:18:26 AM



#36
Benzene
Concen: 10.118 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.1	27.1
50	19.9	15.1	22.7





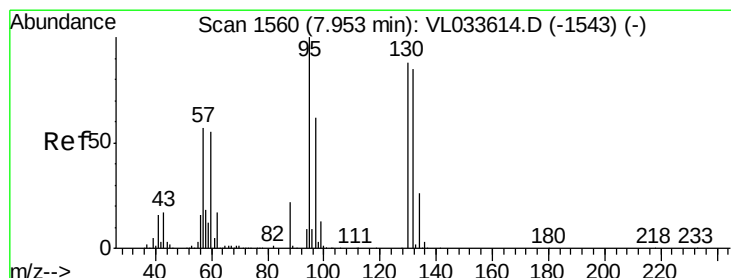
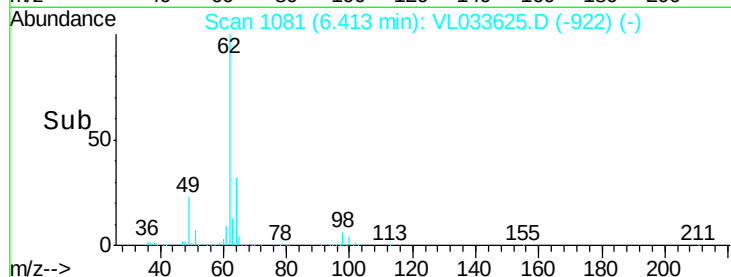
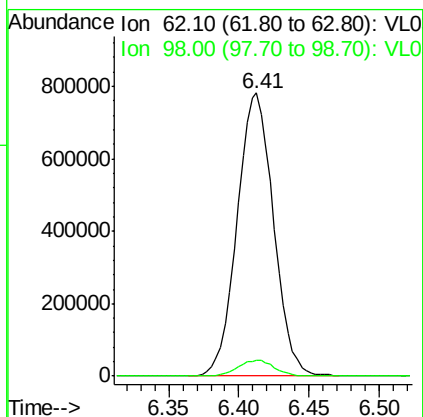
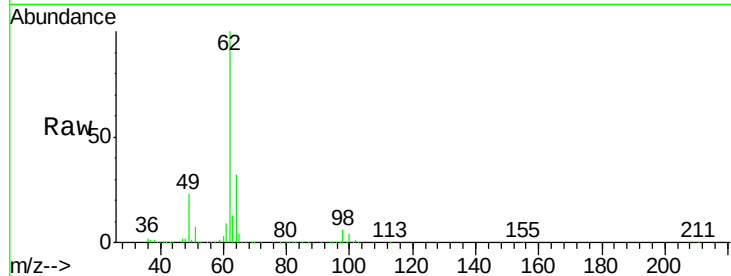
#37
1,2-Dichloroethane
Concen: 9.473 ppbv
RT: 6.41 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VL0502ABS01

Tot Ion: 62 Resp: 1415542
Ion Ratio Lower Upper
62 100
98 5.7 4.4 6.6

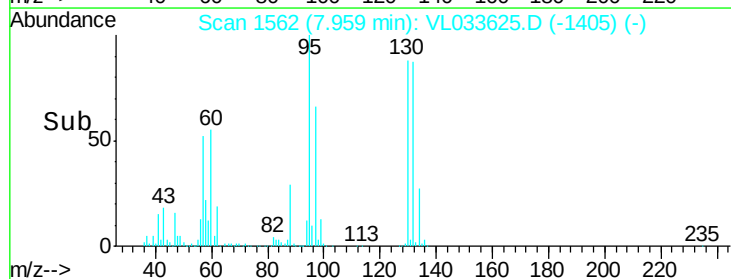
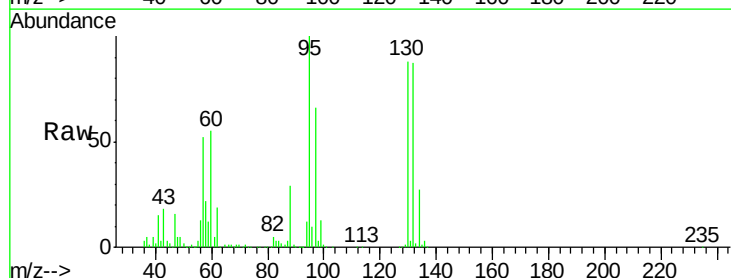
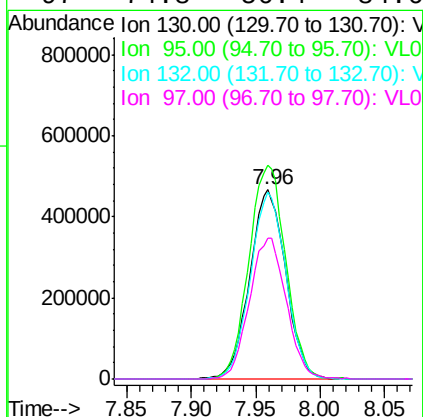
Manual Integrations
APPROVED

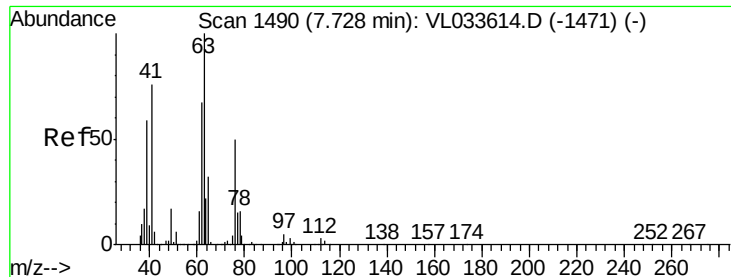
MMDadoda
5/4/2019 7:18:26 AM



#38
Trichloroethene
Concen: 10.138 ppbv
RT: 7.96 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Tgt Ion:130 Resp: 909304
Ion Ratio Lower Upper
130 100
95 113.1 91.2 136.8
132 98.7 77.8 116.8
97 74.8 56.4 84.6





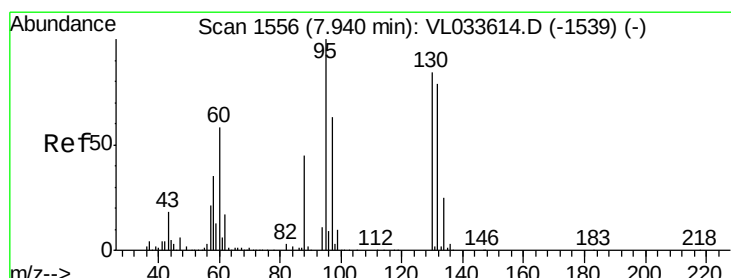
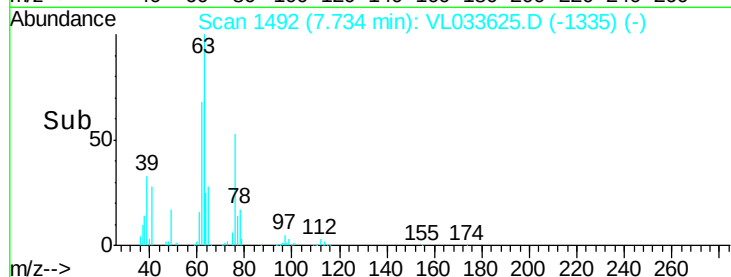
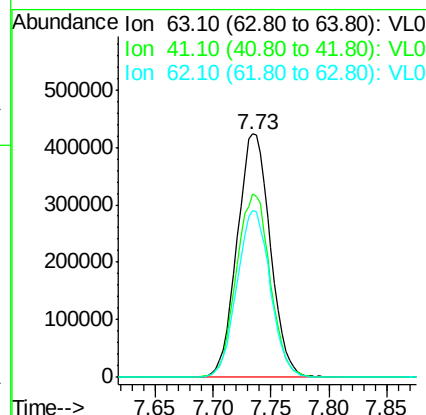
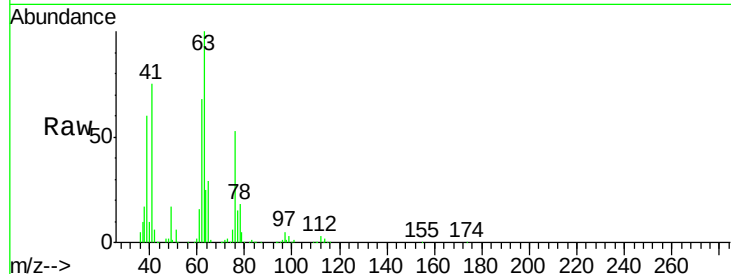
#39
 1,2-Dichloropropane
 Concen: 9.917 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0502ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	75.3	60.9	91.3
62	68.3	53.3	79.9

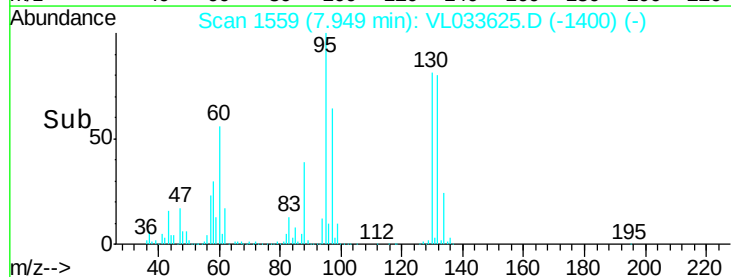
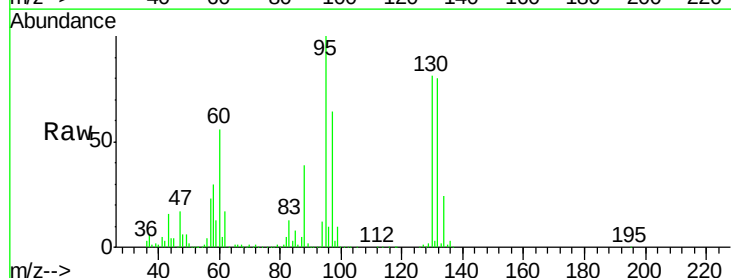
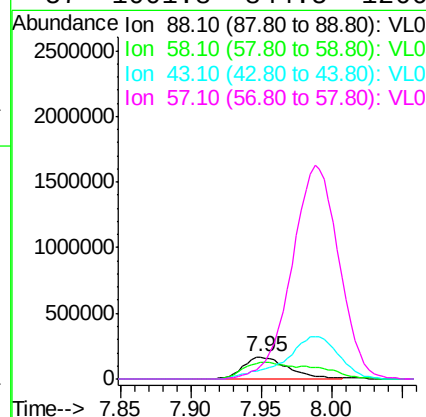
Manual Integrations
 APPROVED

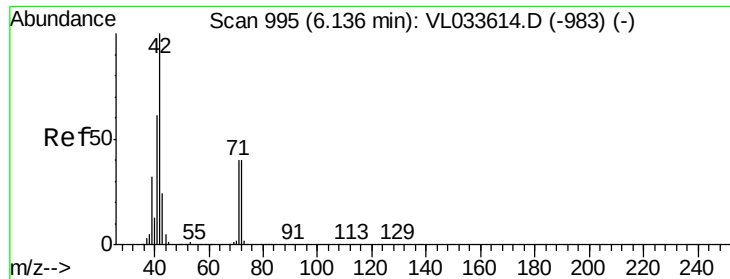
MMDadoda
 5/4/2019 7:18:26 AM



#40
 1,4-Dioxane
 Concen: 11.002 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
88	100		
58	122.8	98.4	147.6
43	228.3	190.7	286.1
57	1001.8	844.5	1266.7





#41

Tetrahydrofuran

Concen: 10.437 ppbv

RT: 6.15 min Scan# 998

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Instrument :

MSVOA_L

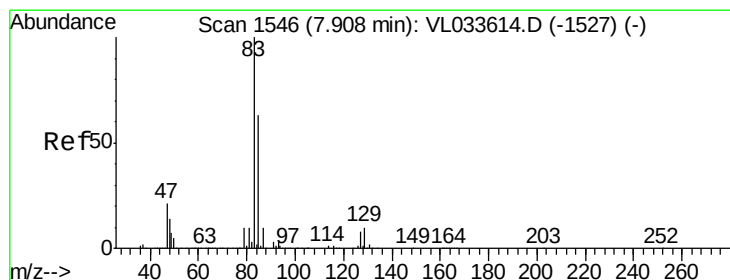
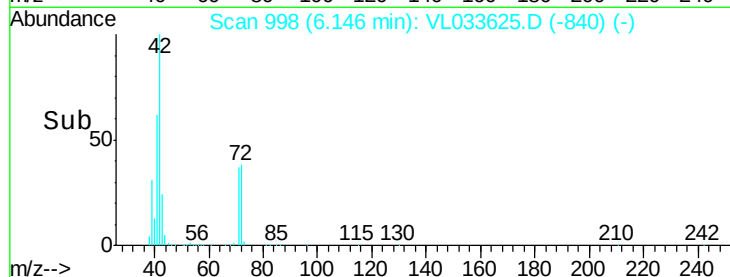
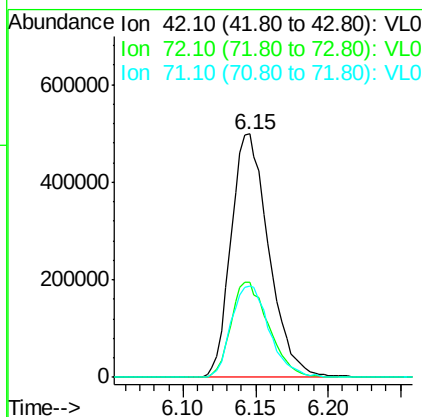
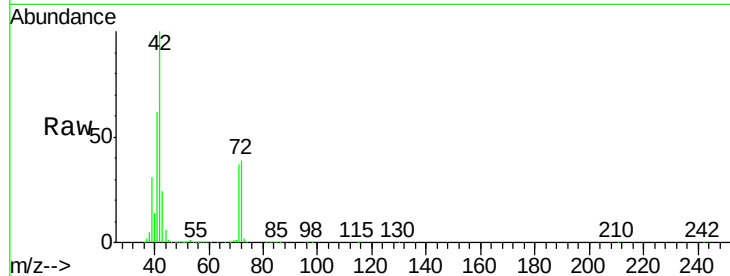
ClientSampleId :

VL0502ABS01

Tot Ion:	42	Resp:	903138
Ion	Ratio	Lower	Upper
42	100		
72	39.3	31.8	47.6
71	38.1	31.0	46.4

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:18:26 AM



#42

Bromodichloromethane

Concen: 9.931 ppbv

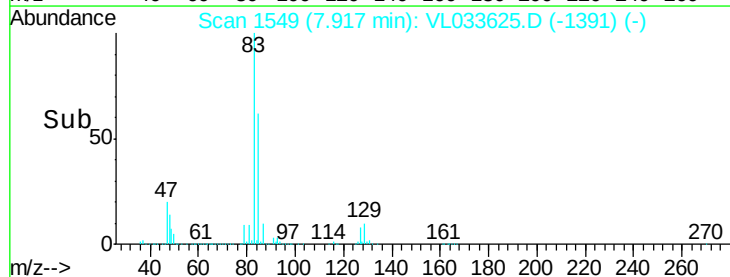
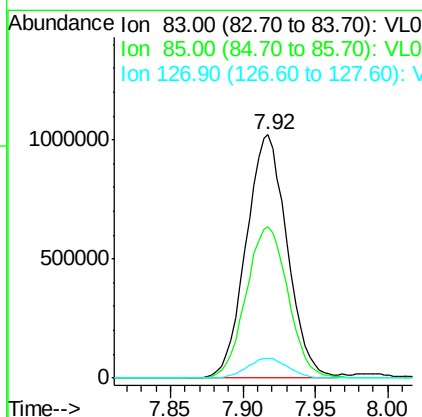
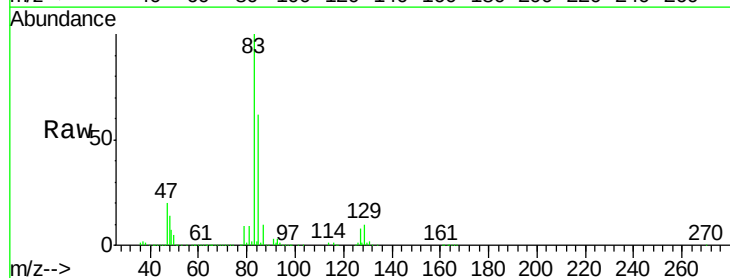
RT: 7.92 min Scan# 1549

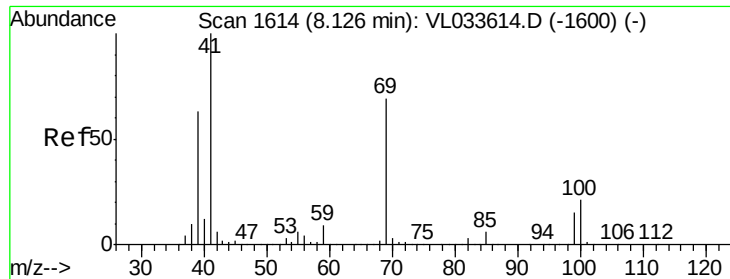
Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Tgt Ion:	83	Resp:	2008358
Ion	Ratio	Lower	Upper
83	100		
85	62.1	50.2	75.4
127	8.2	6.5	9.7





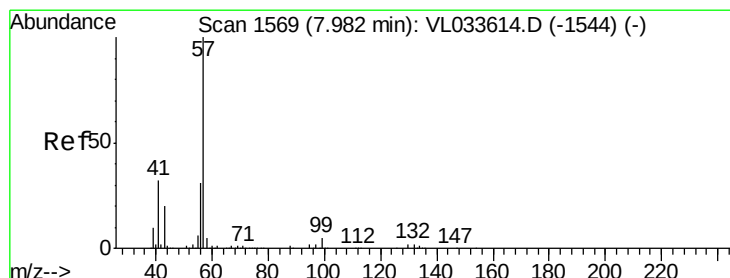
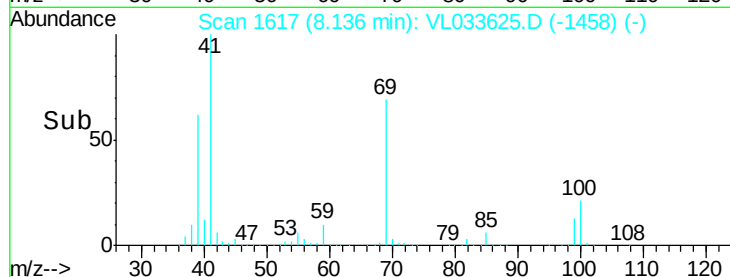
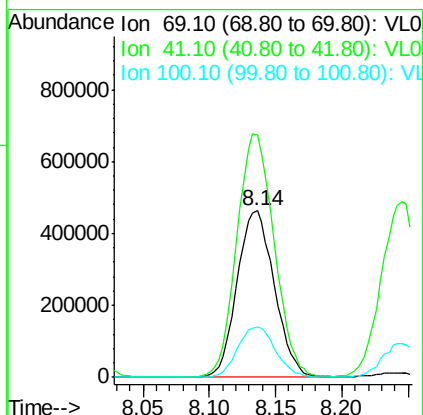
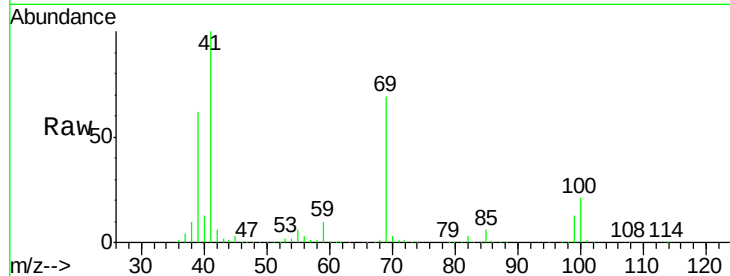
#43
Methyl Methacrylate
Concen: 10.661 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VL0502ABS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100				
41	146.3	115.0	172.4		
100	30.9	24.7	37.1		

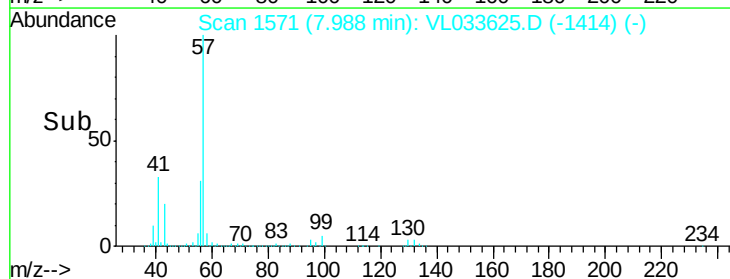
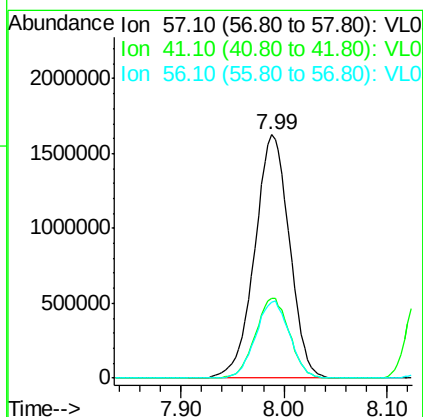
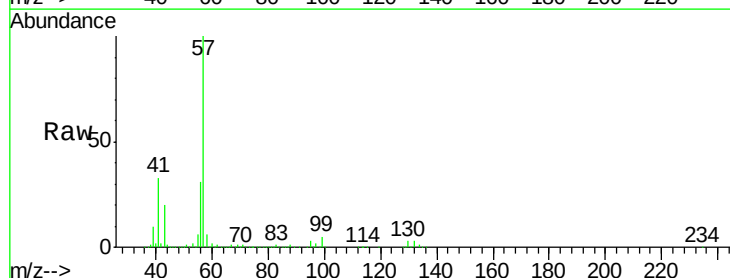
Manual Integrations
APPROVED

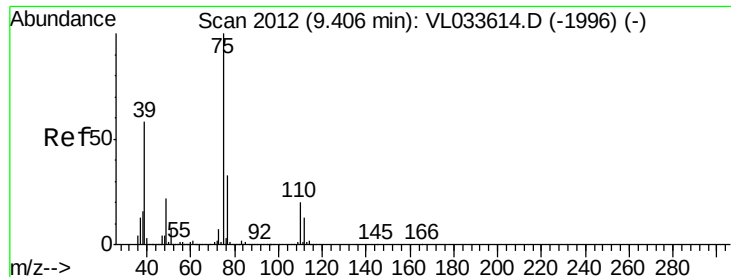
MMDadoda
5/4/2019 7:18:26 AM



#44
2,2,4-Trimethylpentane
Concen: 9.680 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	32.3	25.4	38.2		
56	30.9	24.6	37.0		





#45

t-1,3-Dichloropropene

Concen: 11.035 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Tot Ion: 75 Resp: 1248143

Ion Ratio Lower Upper

75 100

77 31.9 26.0 39.0

Instrument :

MSVOA_L

ClientSampleId :

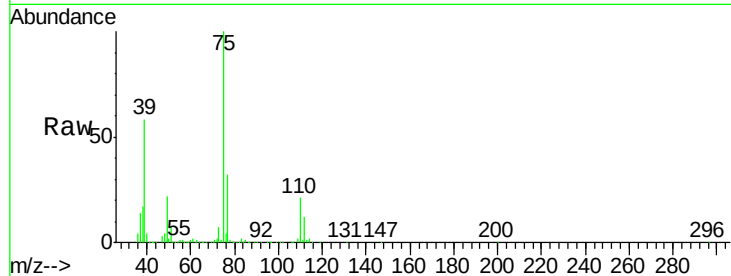
VL0502ABS01

Manual Integrations

APPROVED

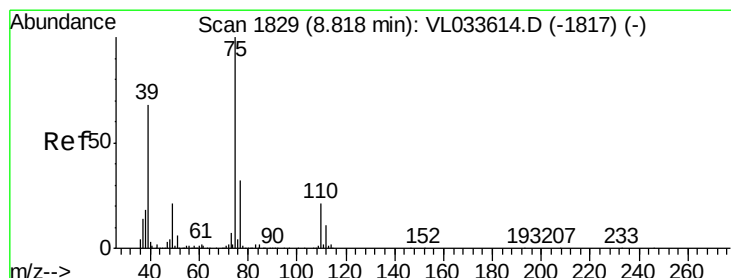
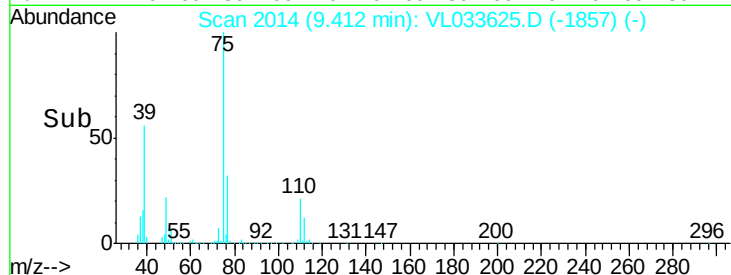
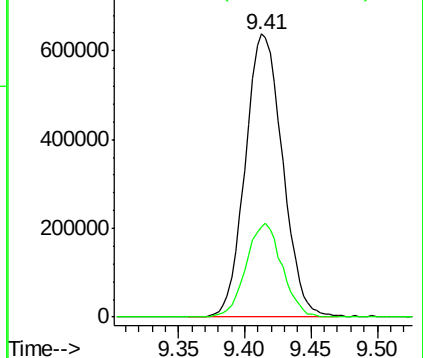
MMDadoda

5/4/2019 7:18:26 AM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 11.039 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

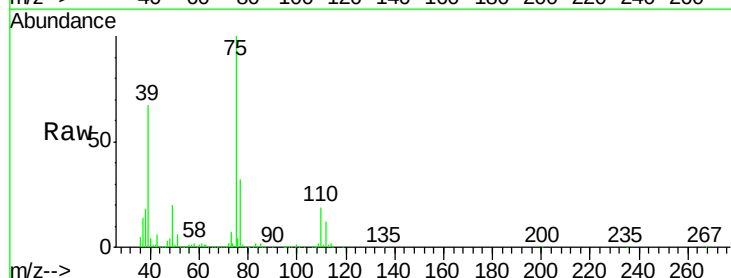
Tgt Ion: 75 Resp: 1408363

Ion Ratio Lower Upper

75 100

39 66.7 54.6 82.0

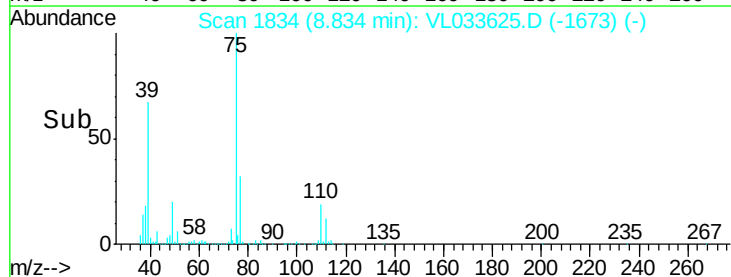
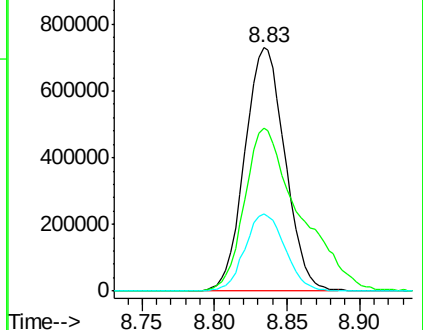
77 31.6 25.7 38.5

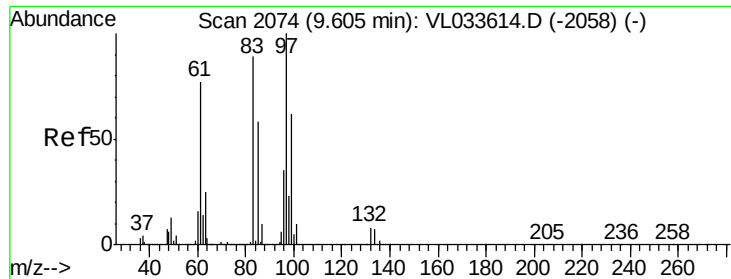


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





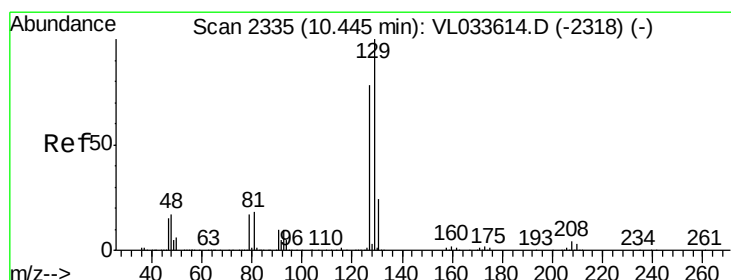
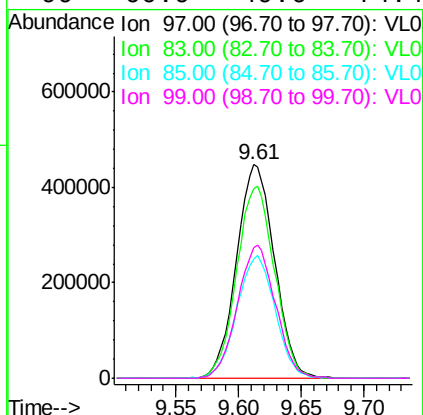
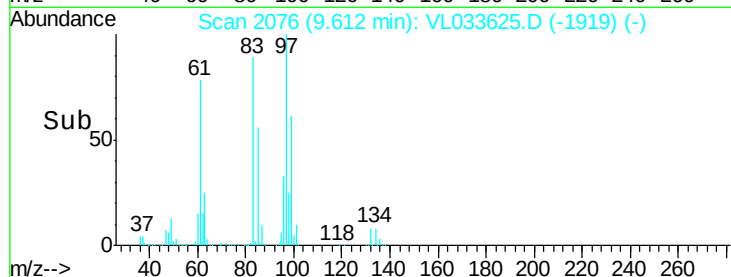
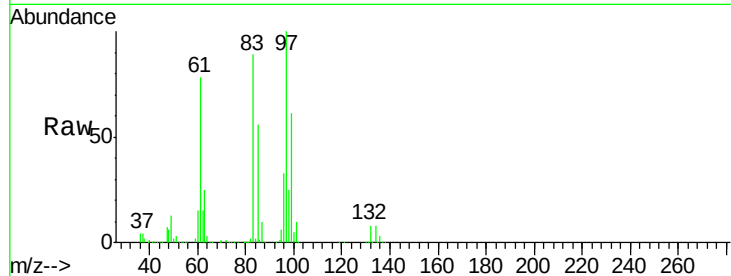
#47
 1,1,2-Trichloroethane
 Concen: 8.534 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0502ABS01

Tot Ion:	97	Resp:	943916
Ion	Ratio	Lower	Upper
97	100		
83	88.5	71.4	107.0
85	55.7	46.0	69.0
99	60.9	49.6	74.4

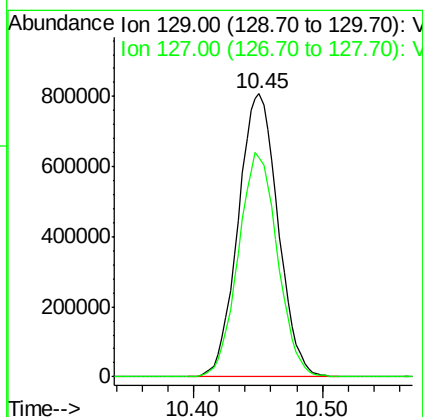
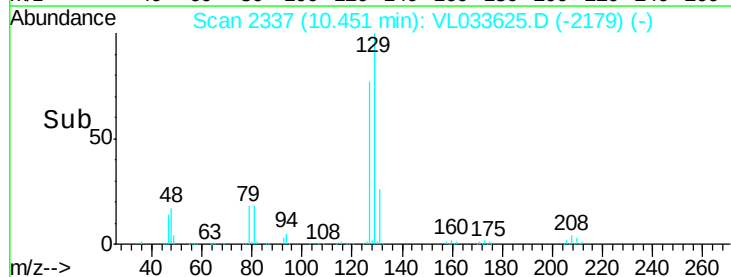
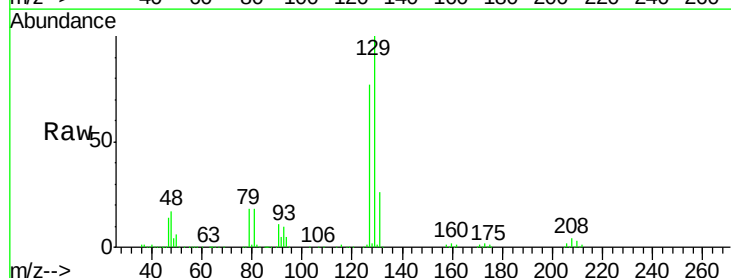
Manual Integrations
 APPROVED

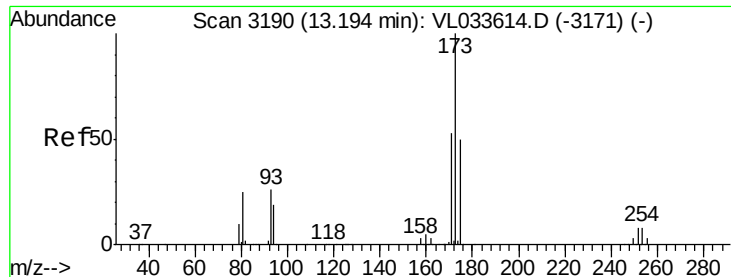
MMDadoda
 5/4/2019 7:18:26 AM



#48
 Dibromochloromethane
 Concen: 9.297 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Tgt Ion:	129	Resp:	1739137
Ion	Ratio	Lower	Upper
129	100		
127	77.7	39.2	117.6





#49

Bromoform

Concen: 10.569 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VL0502ABS01

Tot Ion:173 Resp: 1514703

Ion Ratio Lower Upper

173 100

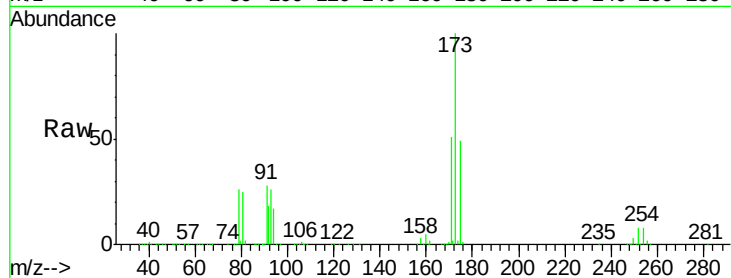
175 49.3 39.0 58.6

171 52.1 41.6 62.4

Manual Integrations
APPROVED

MMDadoda

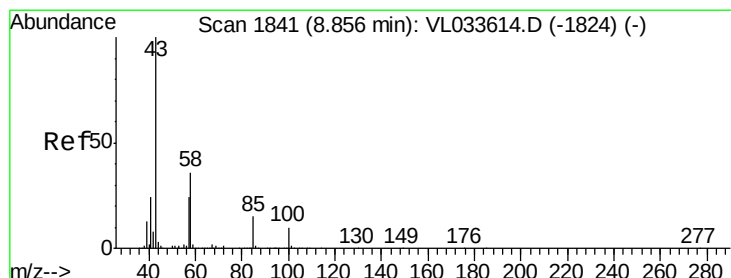
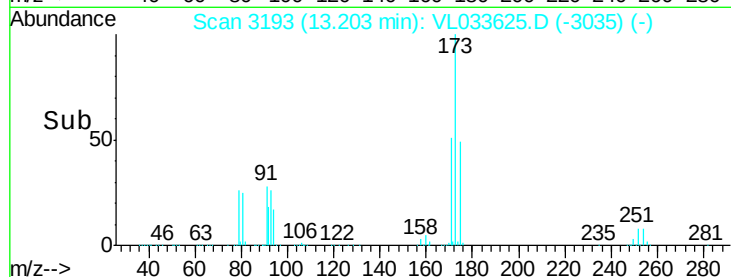
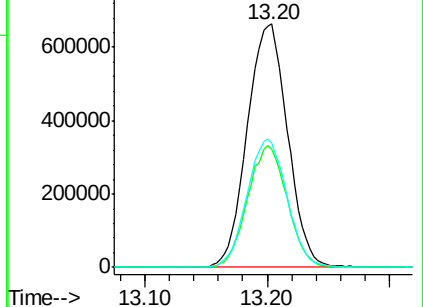
5/4/2019 7:18:26 AM



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: 9.654 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.01 min

Lab File: VL033625.D

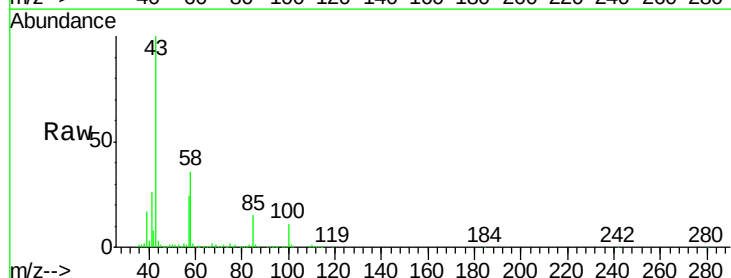
Acq: 2 May 2019 12:43

Tgt Ion: 43 Resp: 2451157

Ion Ratio Lower Upper

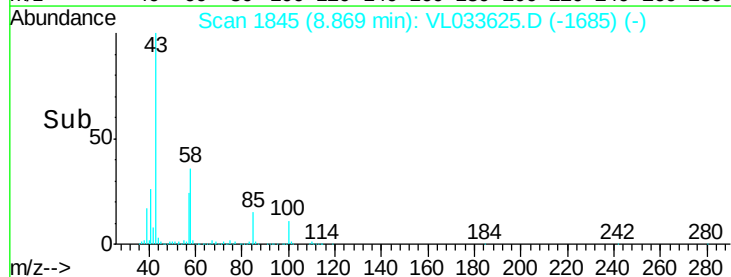
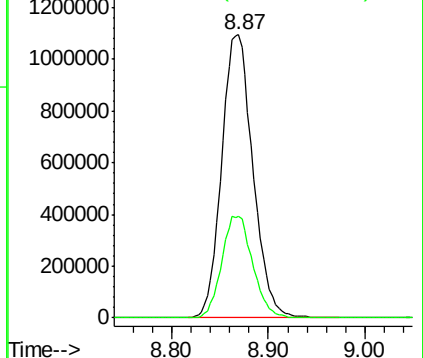
43 100

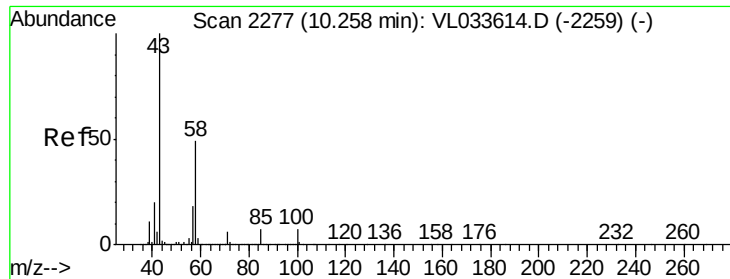
58 35.7 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





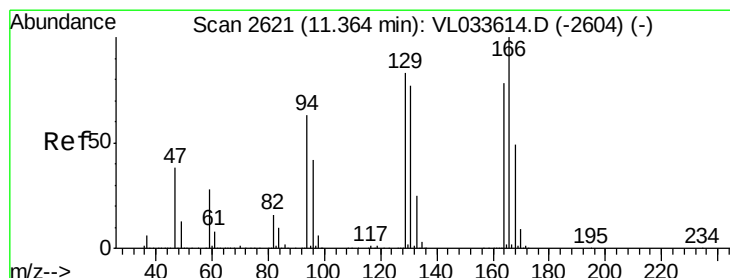
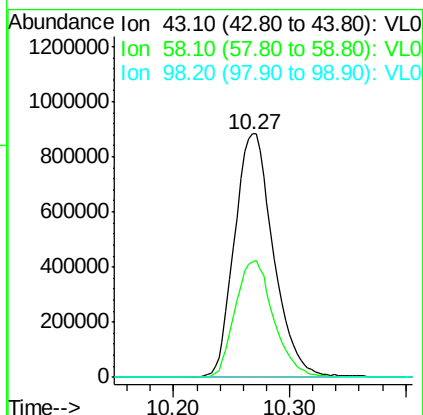
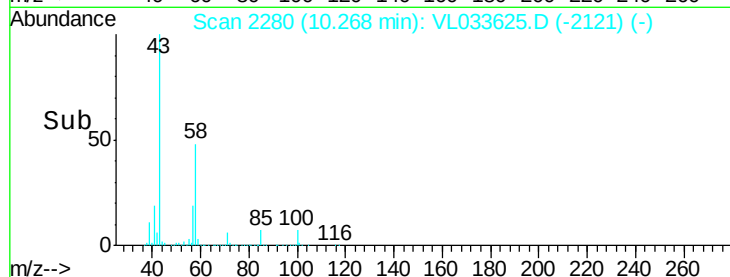
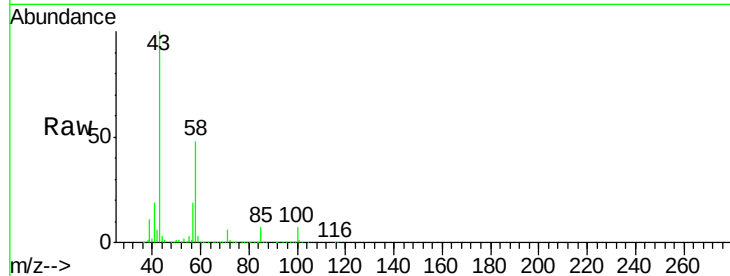
#51
2-Hexanone
Concen: 9.219 ppbv
RT: 10.27 min Scan# 2280
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VL0502ABS01

Tot Ion: 43 Resp: 2054974
Ion Ratio Lower Upper
43 100
58 47.6 38.5 57.7
98 0.4 0.3 0.5

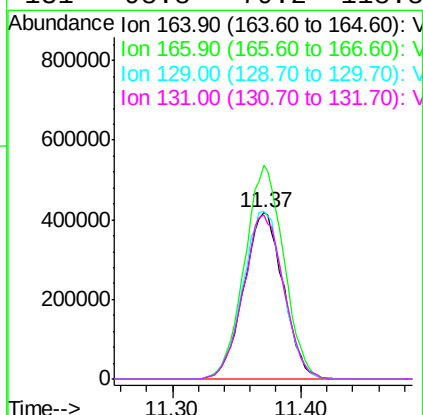
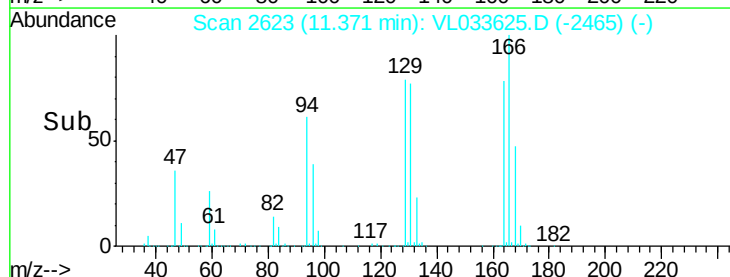
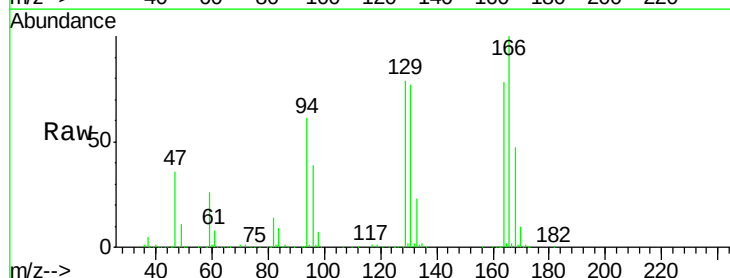
Manual Integrations
APPROVED

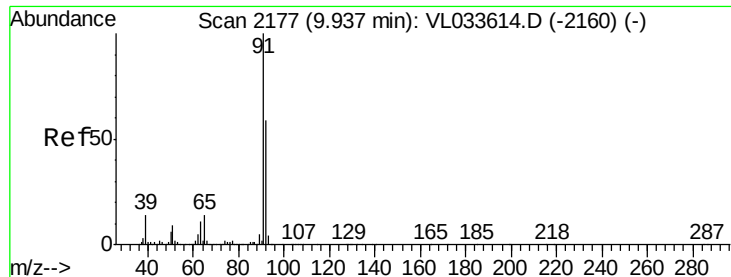
MMDadoda
5/4/2019 7:18:26 AM



#52
Tetrachloroethene
Concen: 10.304 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Tgt Ion: 164 Resp: 890917
Ion Ratio Lower Upper
164 100
166 128.4 102.2 153.4
129 101.2 84.4 126.6
131 98.8 79.2 118.8





#53

Toluene

Concen: 9.508 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VL0502ABS01

Tot Ion: 91 Resp: 2698452

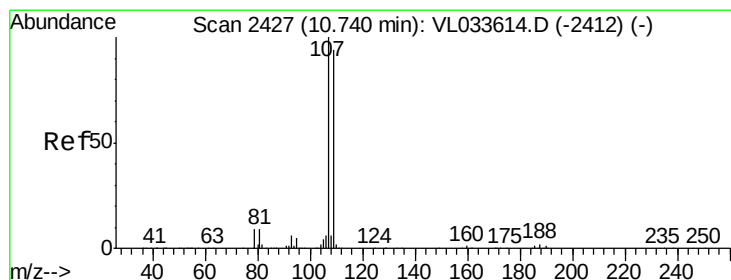
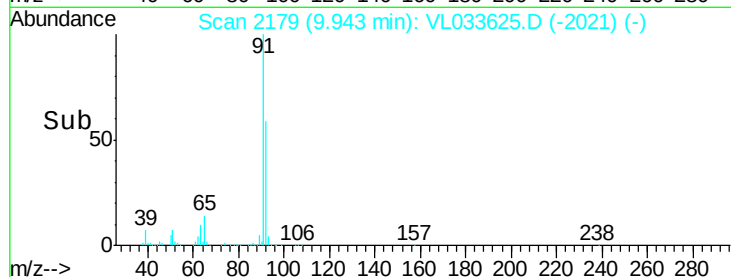
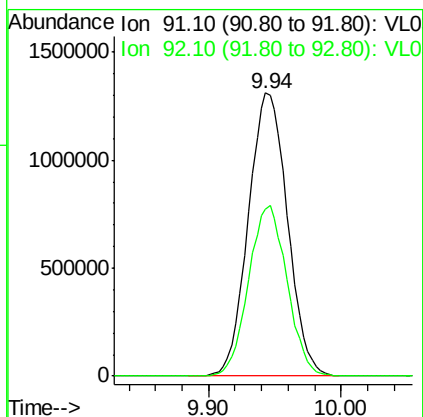
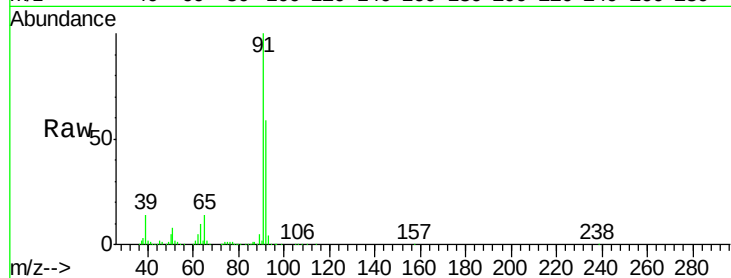
Ion Ratio Lower Upper

91 100

92 59.4 47.8 71.6

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:18:26 AM



#54

1,2-Dibromoethane

Concen: 10.017 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. 0.02 min

Lab File: VL033625.D

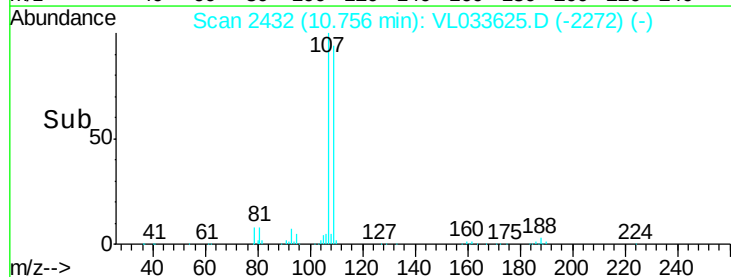
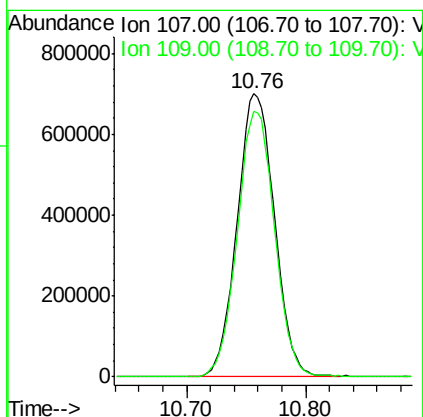
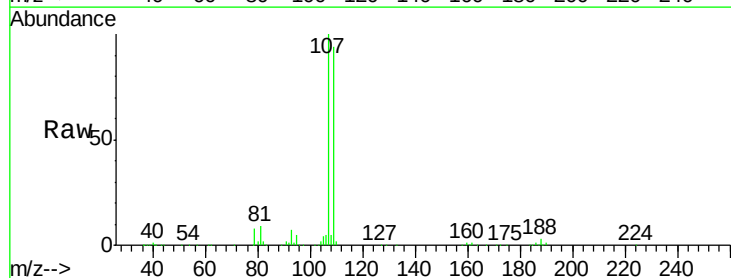
Acq: 2 May 2019 12:43

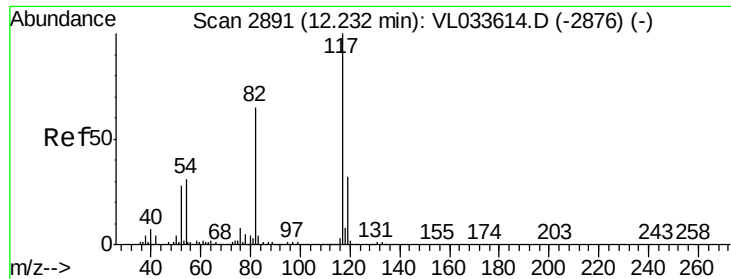
Tgt Ion: 107 Resp: 1523844

Ion Ratio Lower Upper

107 100

109 93.7 75.1 112.7





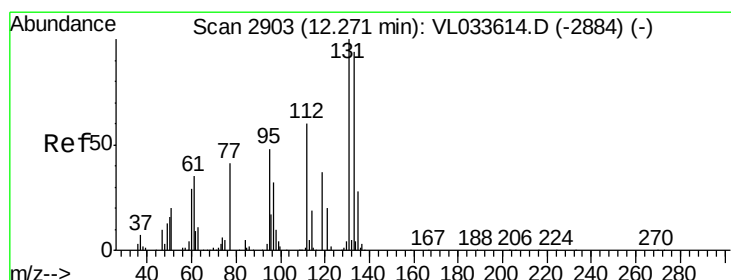
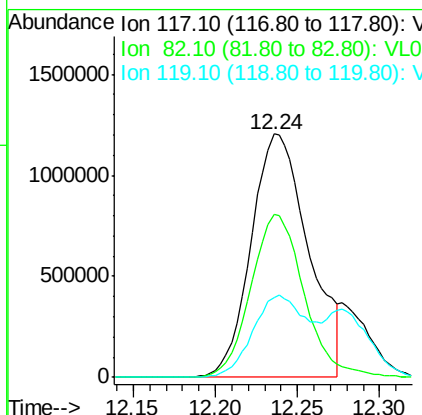
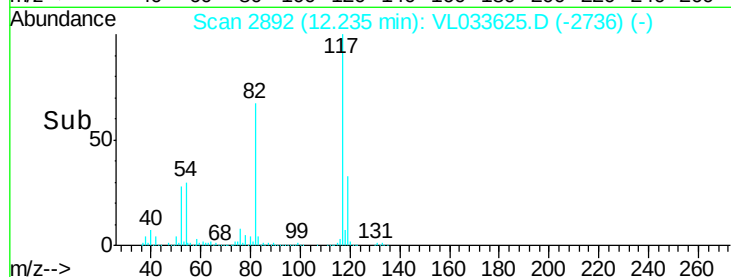
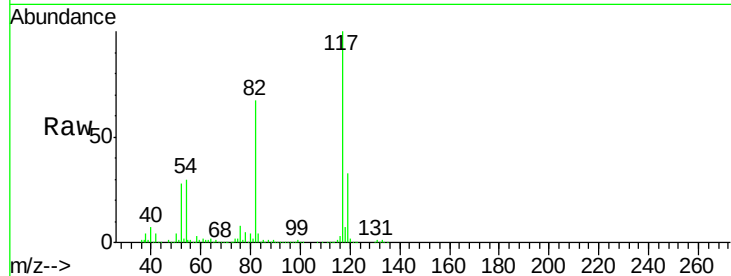
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2892
Delta R.T. 0.00 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VL0502ABS01

Tot Ion:117 Resp: 2938961
Ion Ratio Lower Upper
117 100
82 62.4 52.6 78.8
119 33.1 28.3 42.5

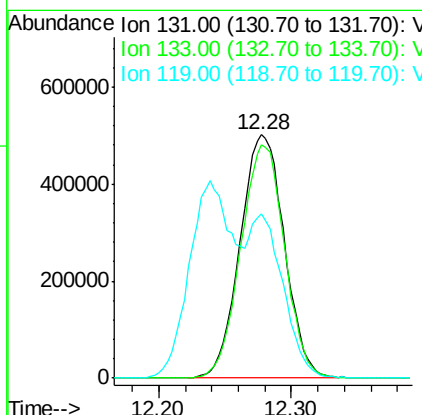
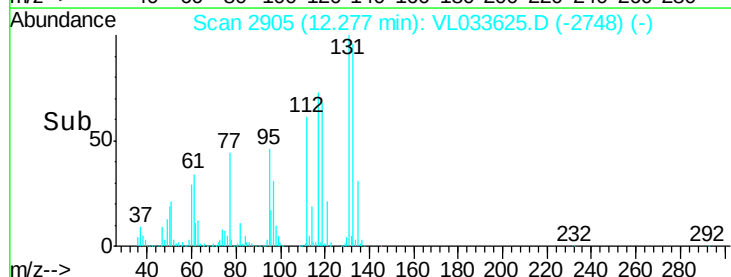
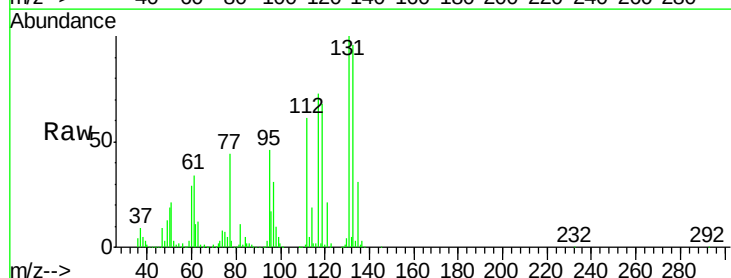
Manual Integrations
APPROVED

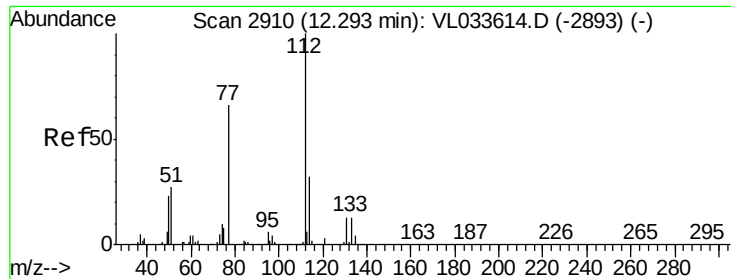
MMDadoda
5/4/2019 7:18:26 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.160 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Tgt Ion:131 Resp: 1159571
Ion Ratio Lower Upper
131 100
133 95.6 76.4 114.6
119 51.8 40.9 61.3





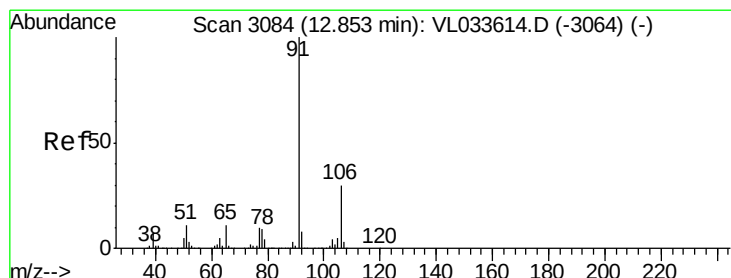
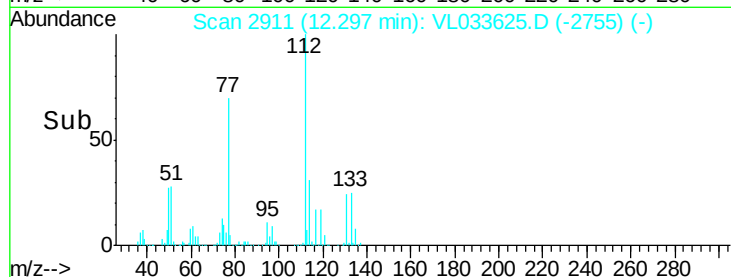
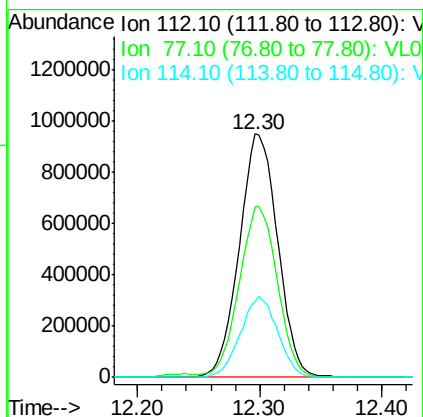
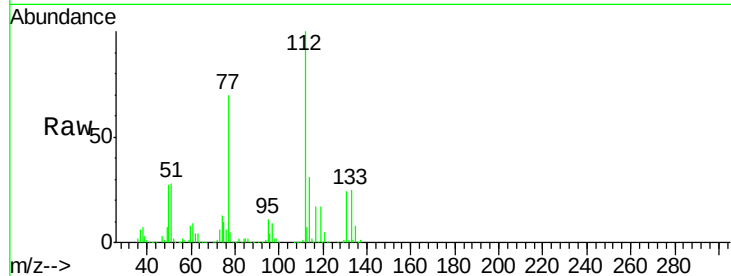
#57
Chlorobenzene
Concen: 9.108 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. 0.00 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VL0502ABS01

Tot Ion: 112 Resp: 2054498
Ion Ratio Lower Upper
112 100
77 69.8 53.6 80.4
114 31.4 29.1 35.5

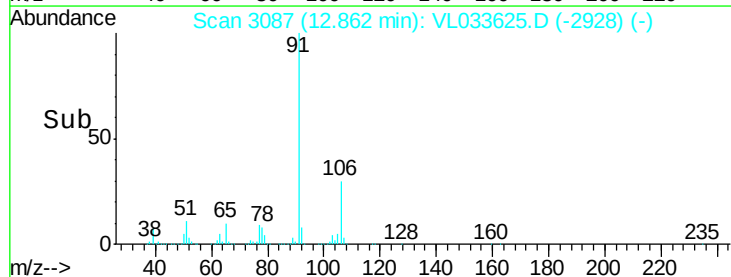
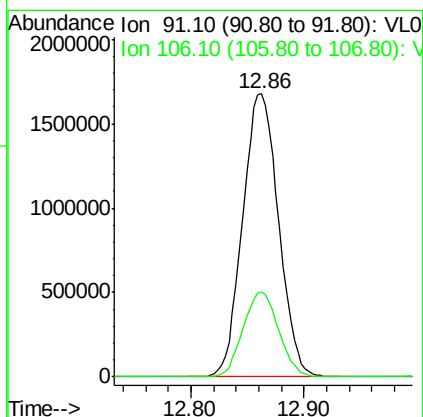
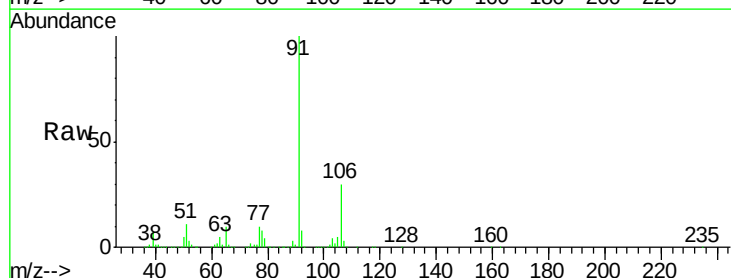
Manual Integrations
APPROVED

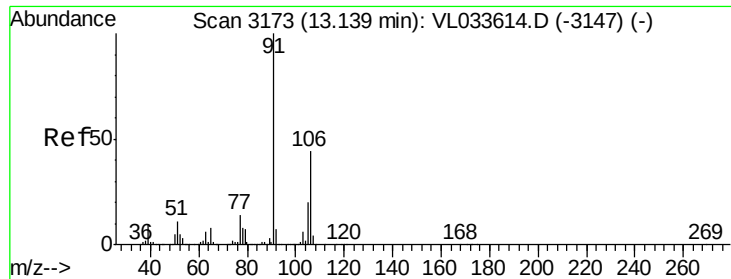
MMDadoda
5/4/2019 7:18:26 AM



#58
Ethyl Benzene
Concen: 10.942 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Tgt Ion: 91 Resp: 3702972
Ion Ratio Lower Upper
91 100
106 30.0 23.6 35.4





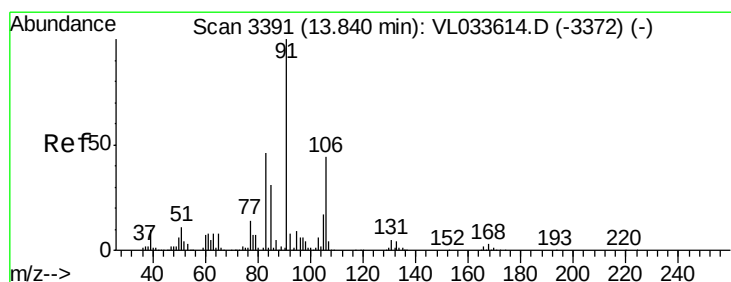
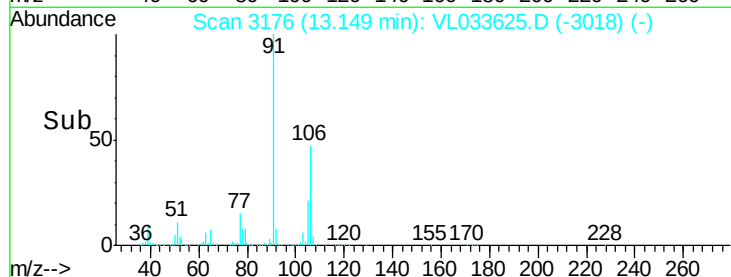
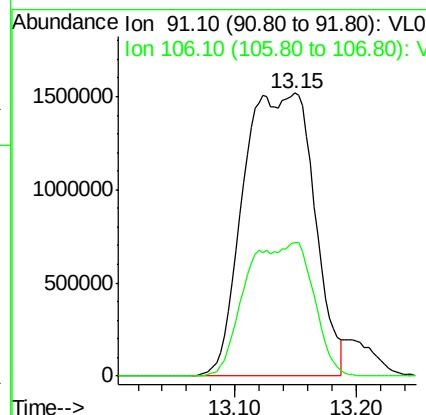
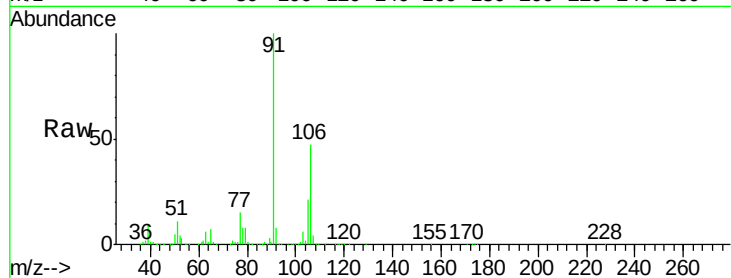
#59
m/p-Xylene
Concen: 21.014 ppbv m
RT: 13.15 min Scan# 3176
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VL0502ABS01

Tot Ion: 91 Resp: 6118052
Ion Ratio Lower Upper
91 100
106 45.4 0.0 0.0#

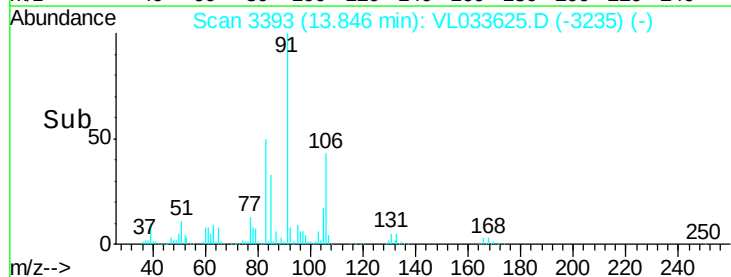
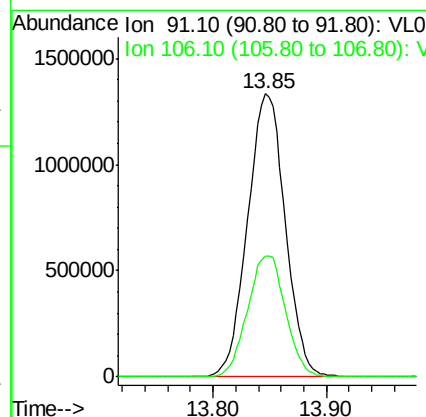
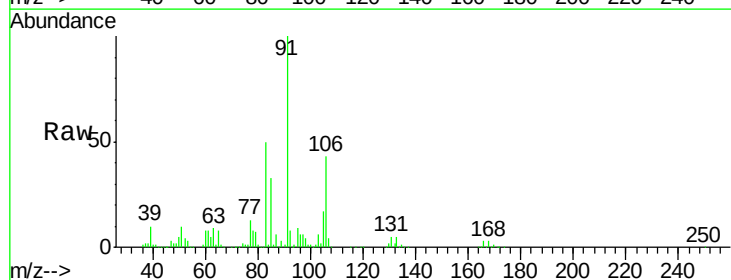
Manual Integrations
APPROVED

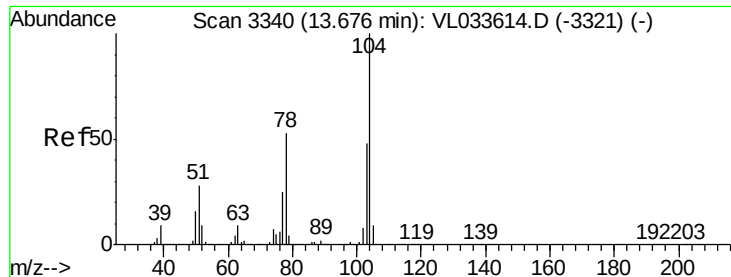
MMDadoda
5/4/2019 7:18:26 AM



#60
o-Xylene
Concen: 10.480 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Tgt Ion: 91 Resp: 3082082
Ion Ratio Lower Upper
91 100
106 43.2 21.8 65.4





#61

Stvrene

Concen: 11.725 ppbv

RT: 13.68 min Scan# 3342

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VL0502ABS01

Tot Ion:104 Resp: 2356829

Ion Ratio Lower Upper

104 100

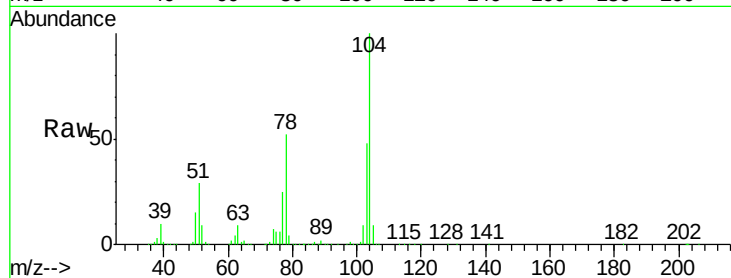
78 53.2 42.7 64.1

103 47.5 37.8 56.6

Manual Integrations
APPROVED

MMDadoda

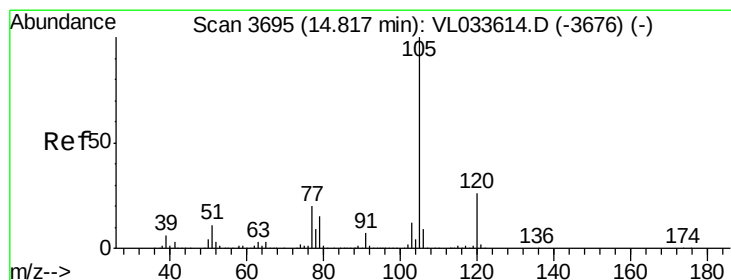
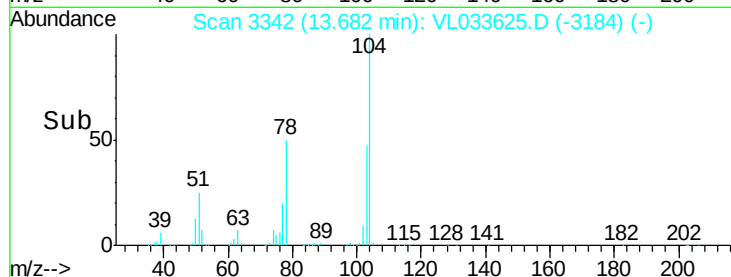
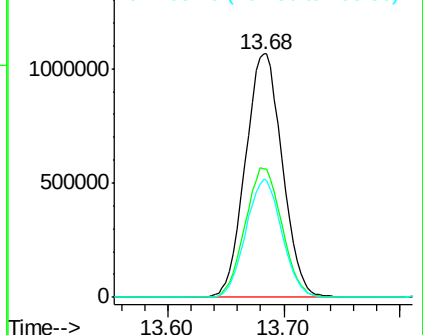
5/4/2019 7:18:26 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.285 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. 0.01 min

Lab File: VL033625.D

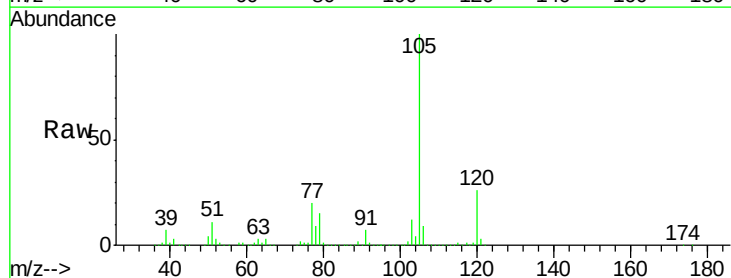
Acq: 2 May 2019 12:43

Tgt Ion:105 Resp: 4042308

Ion Ratio Lower Upper

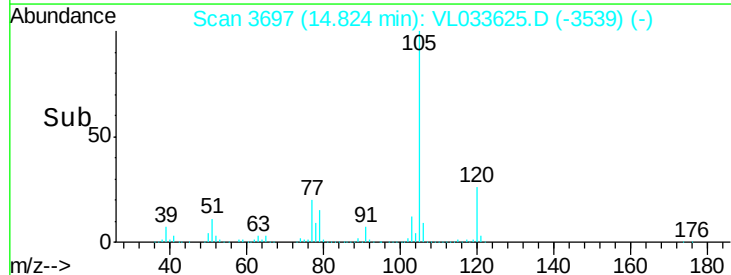
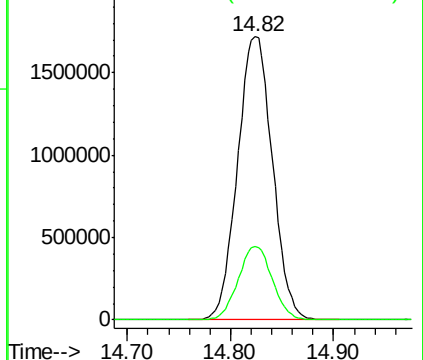
105 100

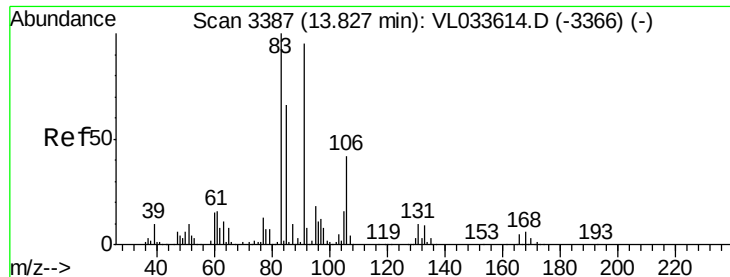
120 25.4 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 9.105 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VL0502ABS01

Tot Ion: 83 Resp: 2090307

Ion Ratio Lower Upper

83 100

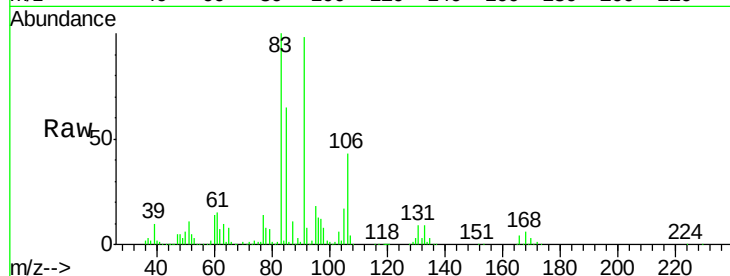
131 9.5 4.8 14.4

85 64.9 32.3 96.8

Manual Integrations
APPROVED

MMDadoda

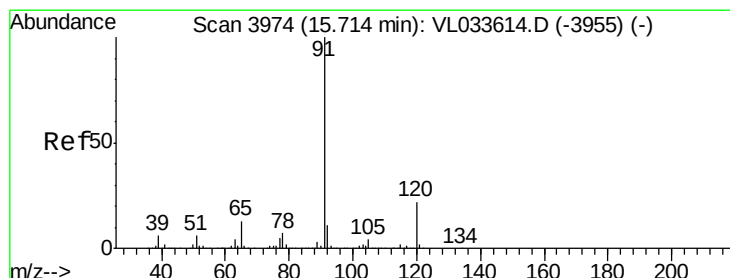
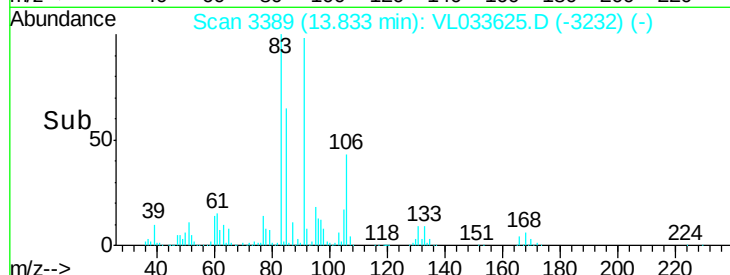
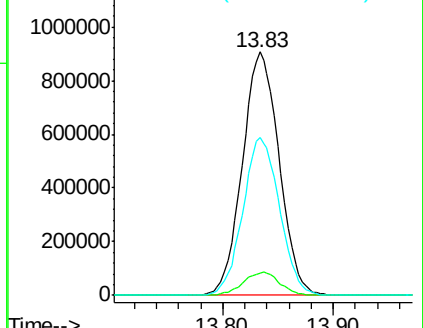
5/4/2019 7:18:26 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 10.387 ppbv

RT: 15.72 min Scan# 3976

Delta R.T. 0.01 min

Lab File: VL033625.D

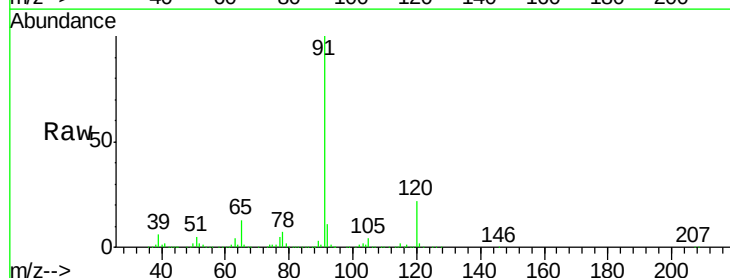
Acq: 2 May 2019 12:43

Tgt Ion: 120 Resp: 1058898

Ion Ratio Lower Upper

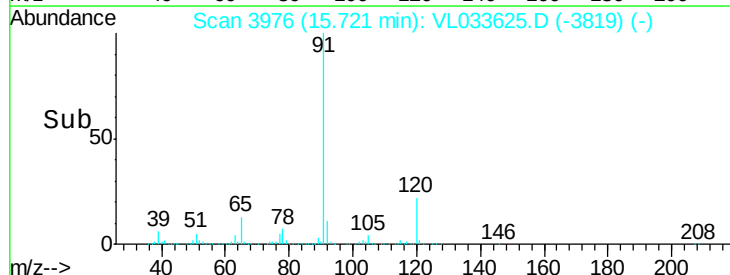
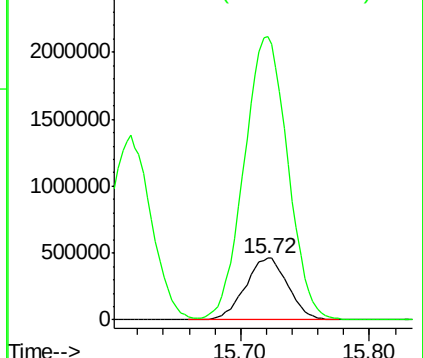
120 100

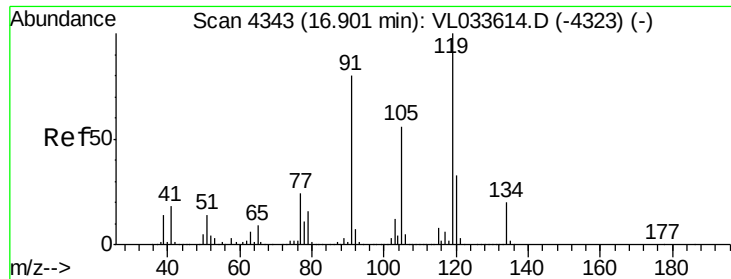
91 472.9 380.2 570.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 10.025 ppbv

RT: 16.90 min Scan# 4344

Delta R.T. 0.00 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VL0502ABS01

Tot Ion:119 Resp: 3684751

Ion Ratio Lower Upper

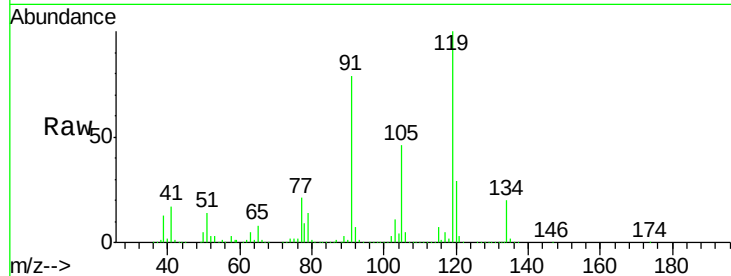
119 100

91 81.7 66.1 99.1

134 19.3 15.6 23.4

Manual Integrations
APPROVED

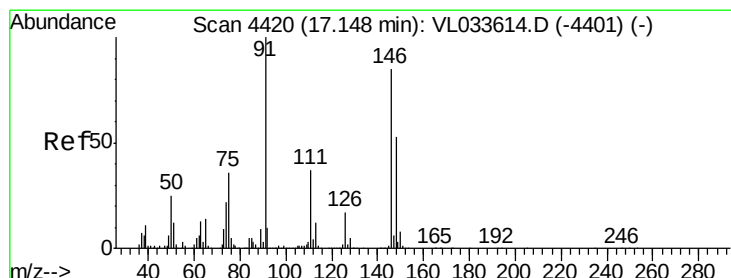
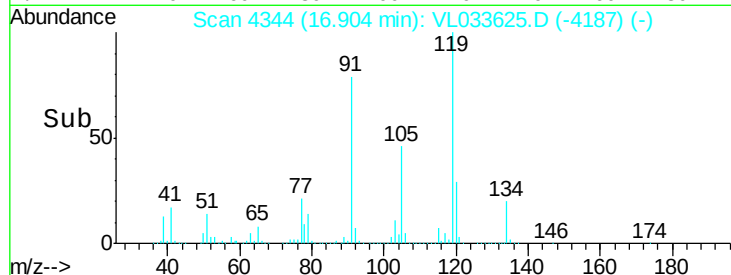
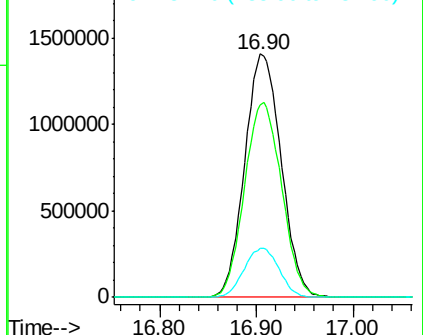
MMDadoda
5/4/2019 7:18:26 AM



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: 12.060 ppbv

RT: 17.15 min Scan# 4422

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

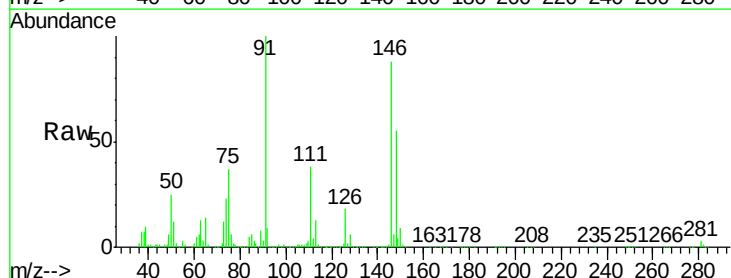
Tgt Ion: 91 Resp: 2010267

Ion Ratio Lower Upper

91 100

126 16.9 13.4 20.2

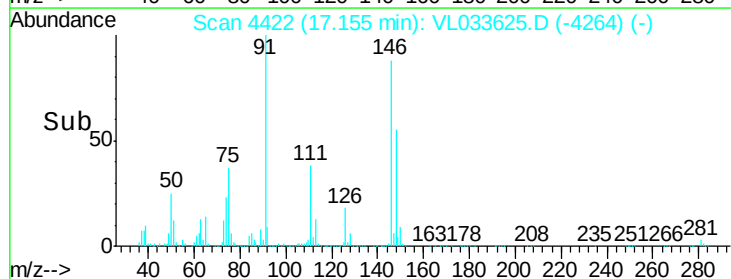
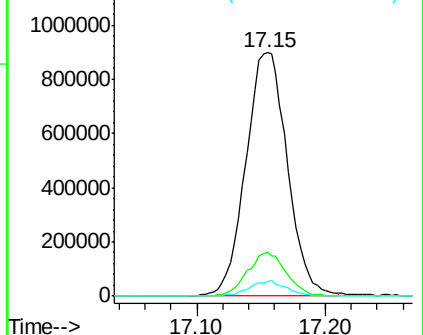
128 5.5 4.3 6.5

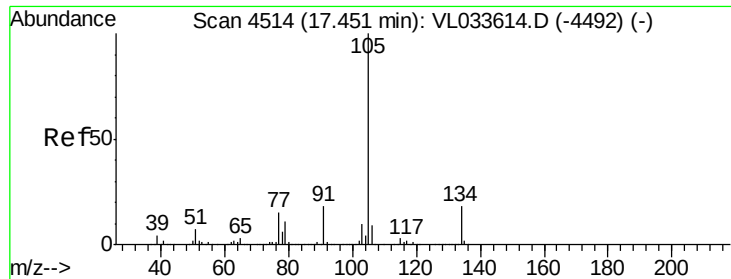


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





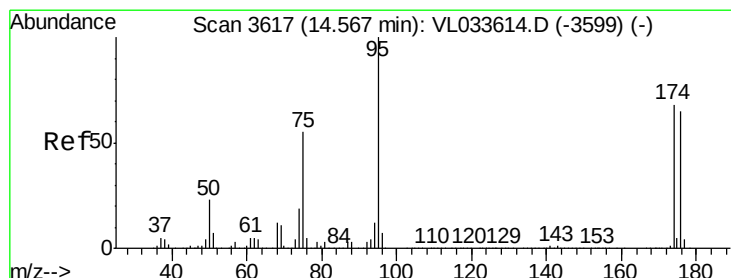
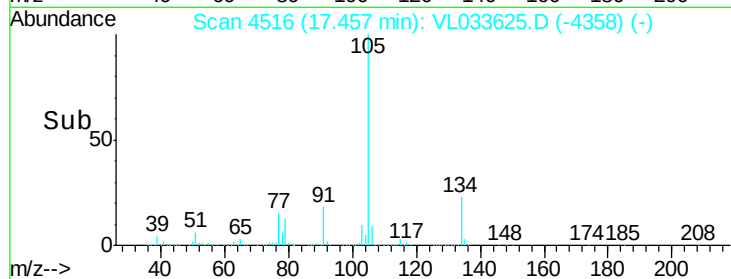
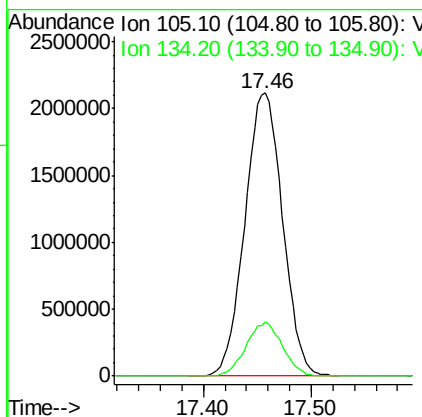
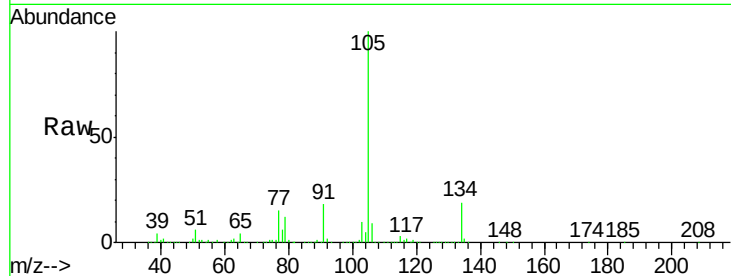
#67
 sec-Butylbenzene
 Concen: 9.950 ppbv
 RT: 17.46 min Scan# 4516
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0502ABS01

Tot Ion:105 Resp: 5136054
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.6 21.8

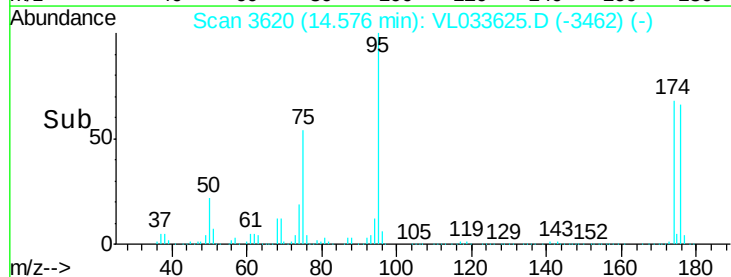
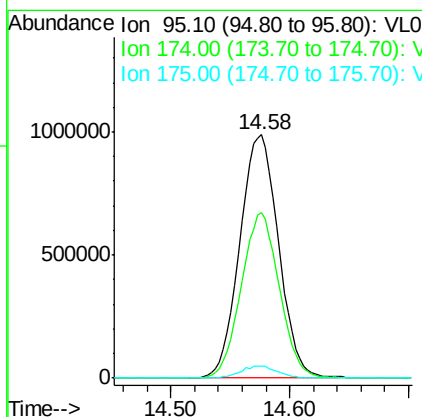
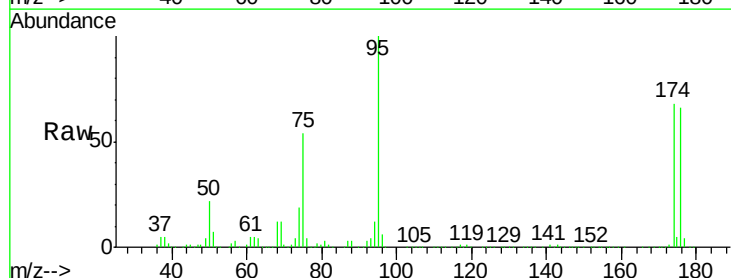
Manual Integrations
 APPROVED

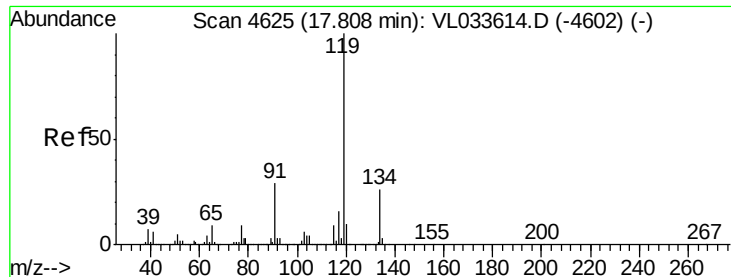
MMDadoda
 5/4/2019 7:18:26 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.934 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Tgt Ion: 95 Resp: 2222748
 Ion Ratio Lower Upper
 95 100
 174 67.3 53.9 80.9
 175 4.9 4.0 6.0





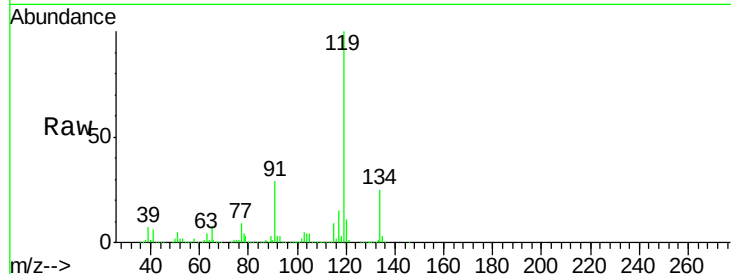
#69
 p-Isopropyltoluene
 Concen: 10.012 ppbv
 RT: 17.81 min Scan# 4626
 Delta R.T. 0.00 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0502ABS01

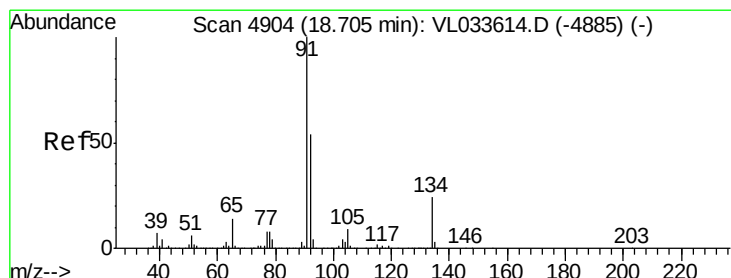
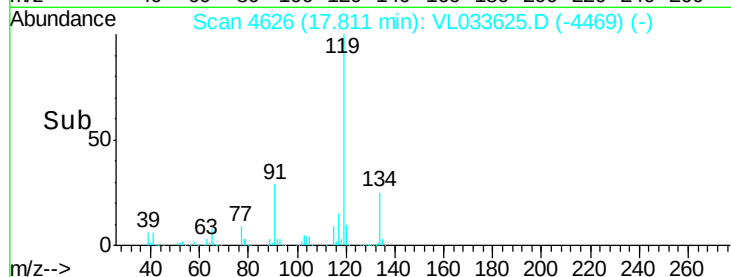
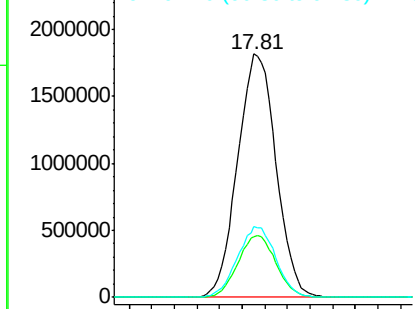
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	29.0	23.3	34.9

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:18:26 AM

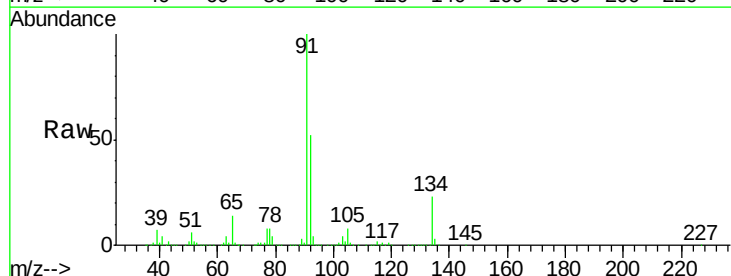


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

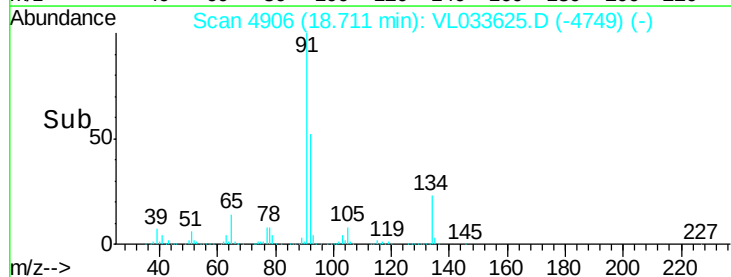
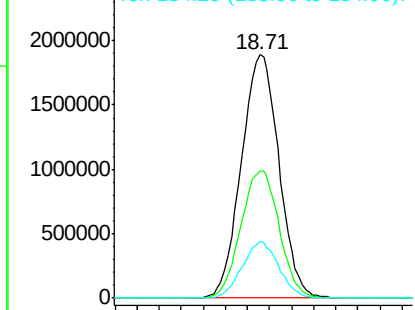


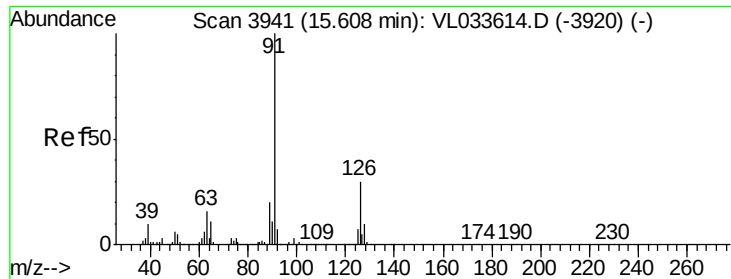
#70
 n-Butylbenzene
 Concen: 9.564 ppbv
 RT: 18.71 min Scan# 4906
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.4	42.6	64.0
134	22.6	18.0	27.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.537 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VL0502ABS01

Tot Ion: 91 Resp: 3097458

Ion Ratio Lower Upper

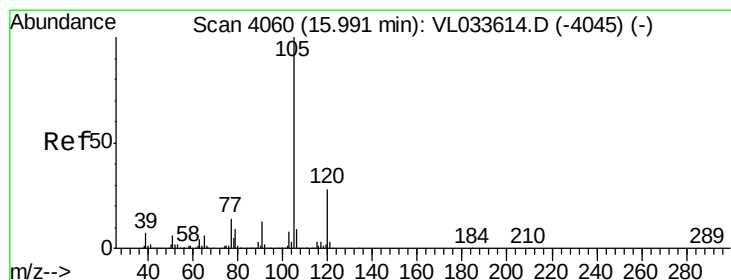
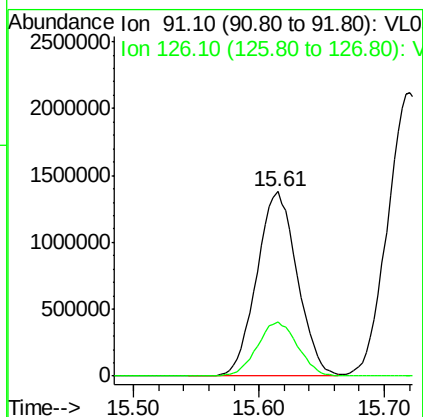
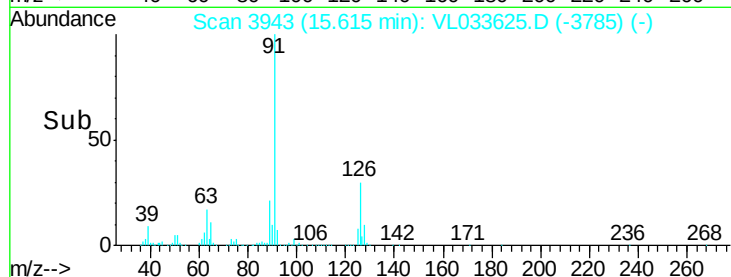
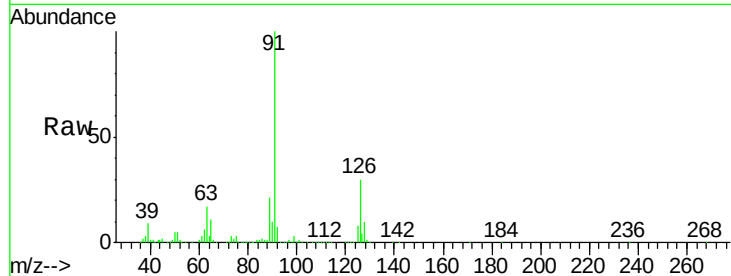
91 100

126 29.5 11.9 47.7

Manual Integrations
APPROVED

MMDadoda

5/4/2019 7:18:26 AM



#72

4-Ethyltoluene

Concen: 10.658 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Tgt Ion:105 Resp: 3570308

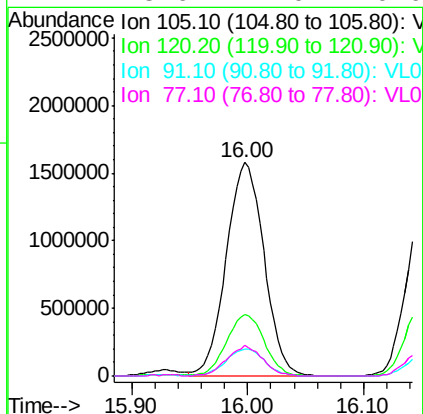
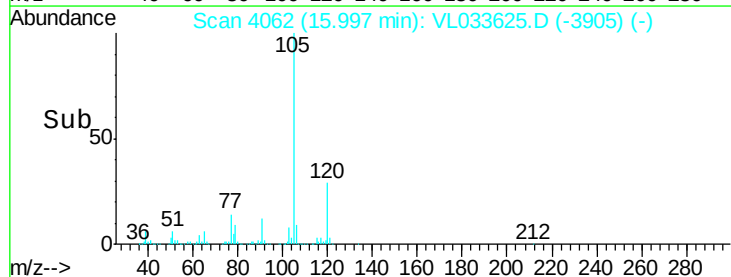
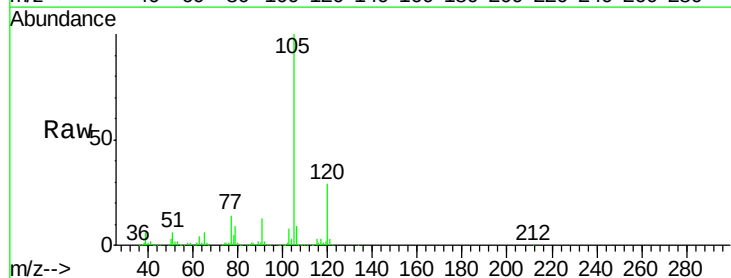
Ion Ratio Lower Upper

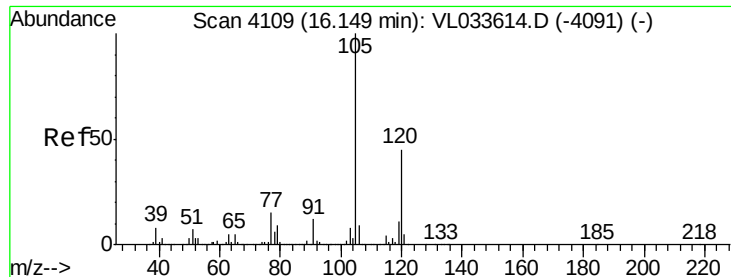
105 100

120 29.0 23.2 34.8

91 13.5 10.3 15.5

77 13.6 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 10.224 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VL0502ABS01

Tot Ion:105 Resp: 3367909

Ion Ratio Lower Upper

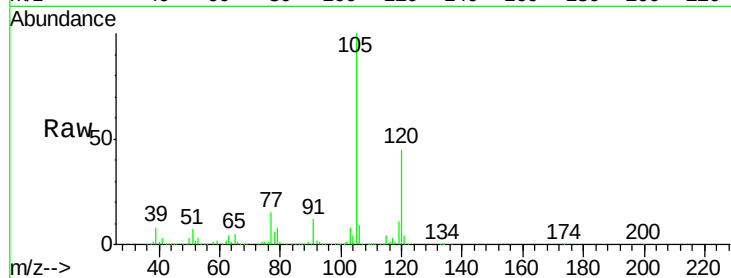
105 100

120 45.1 36.2 54.2

Manual Integrations
APPROVED

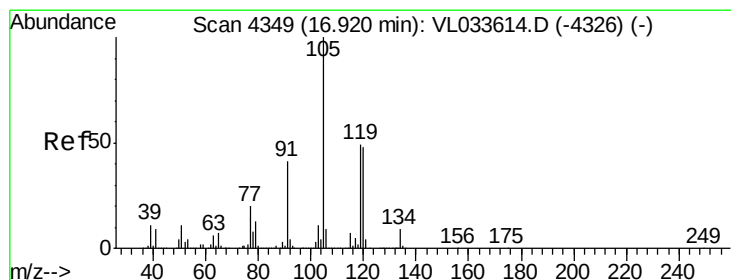
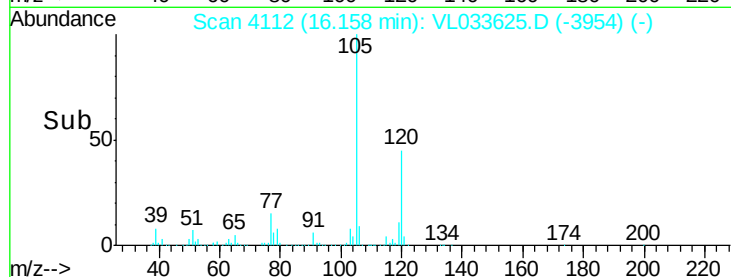
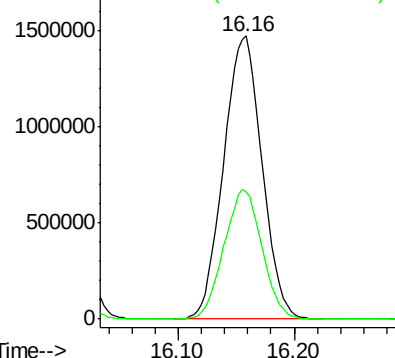
MMDadoda

5/4/2019 7:18:26 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.686 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. 0.00 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Tgt Ion:105 Resp: 3558833

Ion Ratio Lower Upper

105 100

120 47.8 38.4 57.6

91 48.2 33.0 49.4

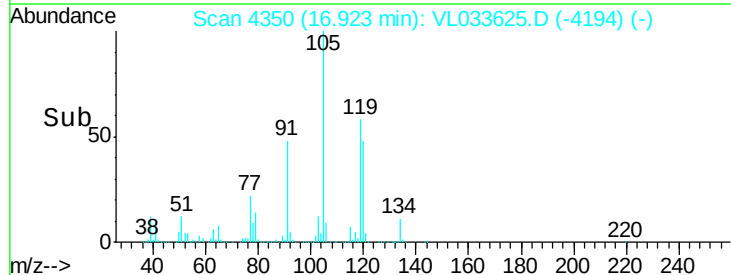
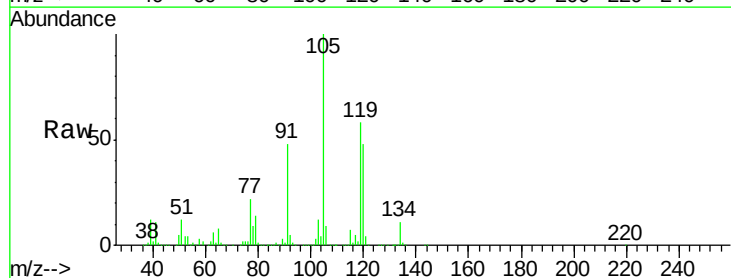
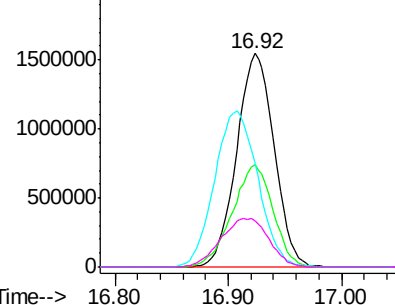
77 21.8 16.2 24.2

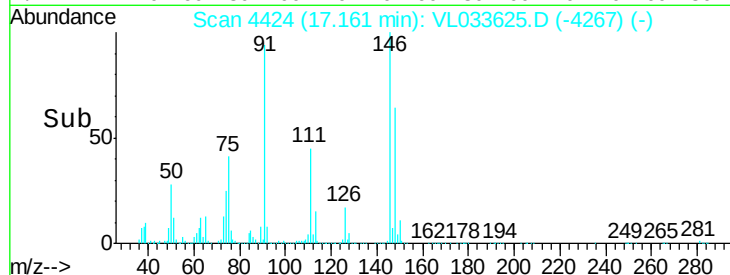
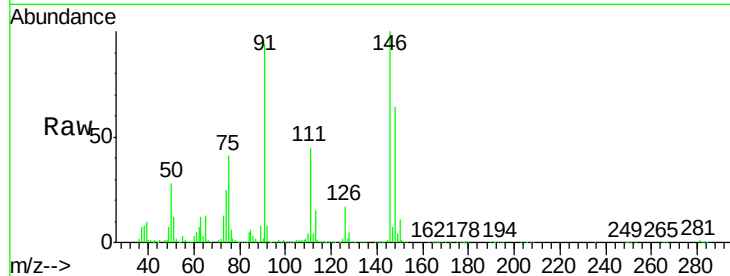
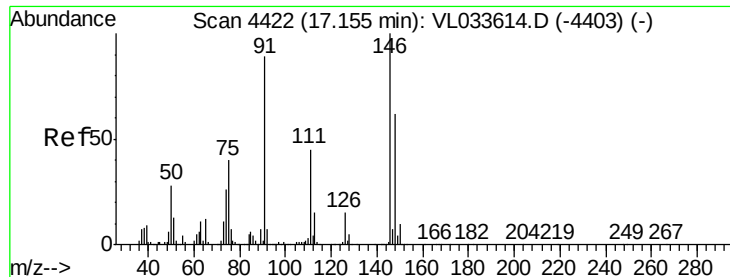
Abundance Ion 105.10 (104.80 to 105.80): V

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





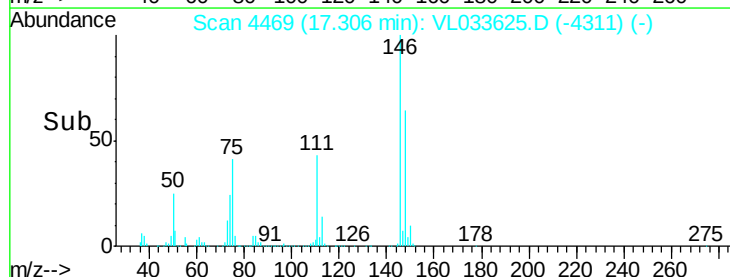
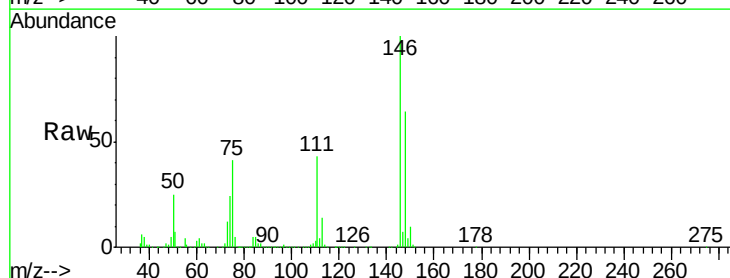
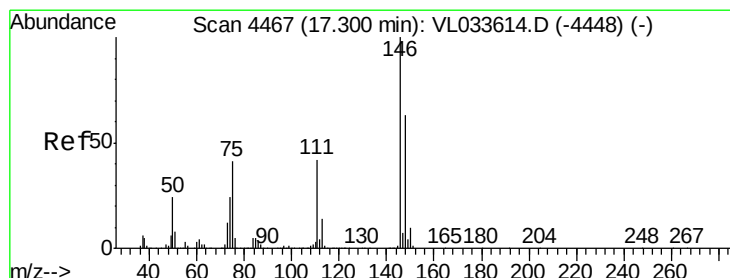
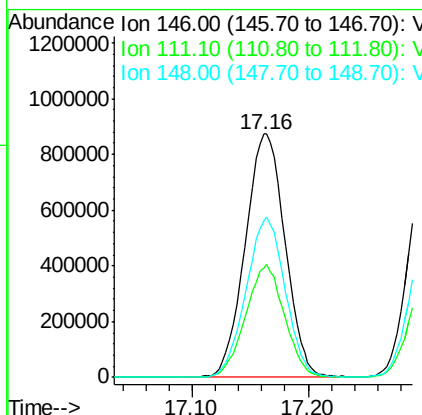
#75
1,3-Dichlorobenzene
Concen: 9.124 ppbv
RT: 17.16 min Scan# 4424
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Tot Ion:146 Resp: 2086840
Ion Ratio Lower Upper
146 100
111 45.2 22.4 67.2
148 64.4 32.0 96.0

Instrument :
MSVOA_L
ClientSampleId :
VL0502ABS01

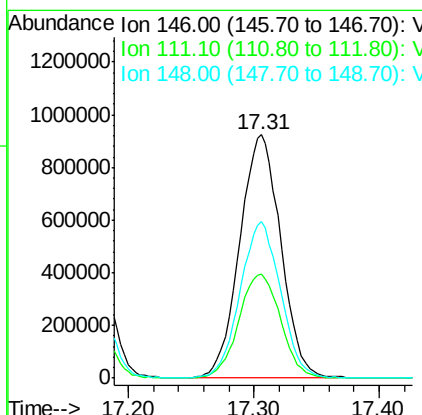
Manual Integrations
APPROVED

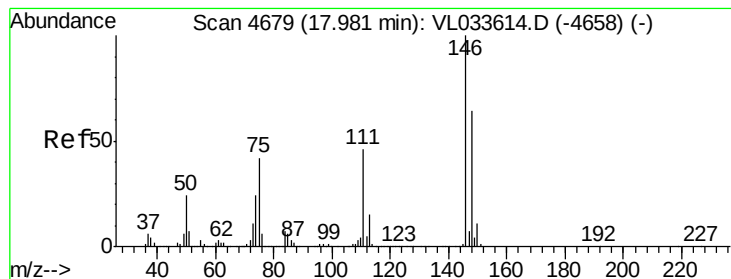
MMDadoda
5/4/2019 7:18:26 AM



#76
1,4-Dichlorobenzene
Concen: 9.593 ppbv
RT: 17.31 min Scan# 4469
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Tgt Ion:146 Resp: 2092137
Ion Ratio Lower Upper
146 100
111 43.8 21.6 65.0
148 63.9 32.3 96.9





#77

1,2-Dichlorobenzene

Concen: 9.319 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VL0502ABS01

Tot Ion:146 Resp: 1982758

Ion Ratio Lower Upper

146 100

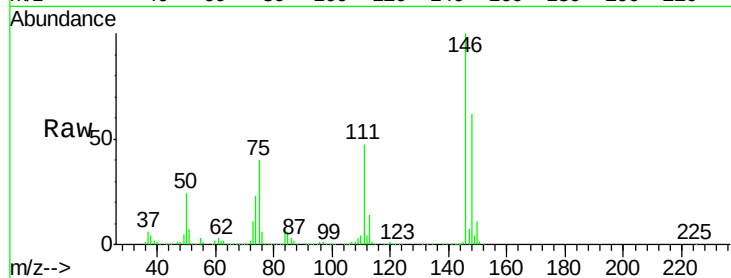
111 46.9 23.3 69.9

148 63.7 32.2 96.6

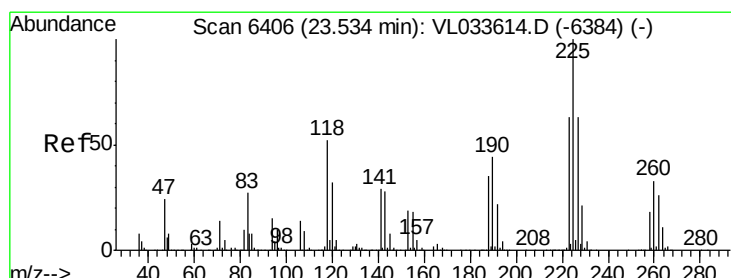
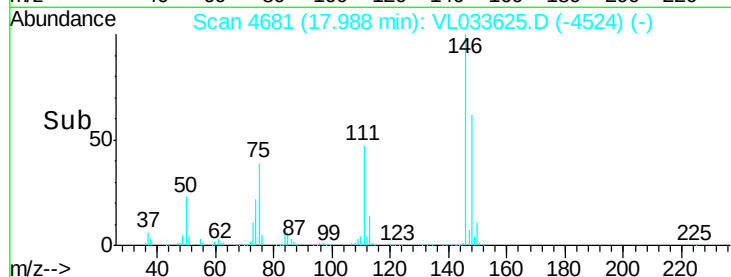
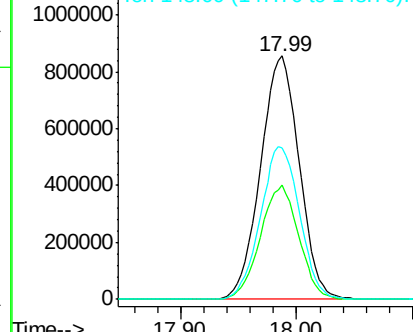
Manual Integrations
APPROVED

MMDadoda

5/4/2019 7:18:26 AM



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 11.239 ppbv

RT: 23.54 min Scan# 6408

Delta R.T. 0.01 min

Lab File: VL033625.D

Acq: 2 May 2019 12:43

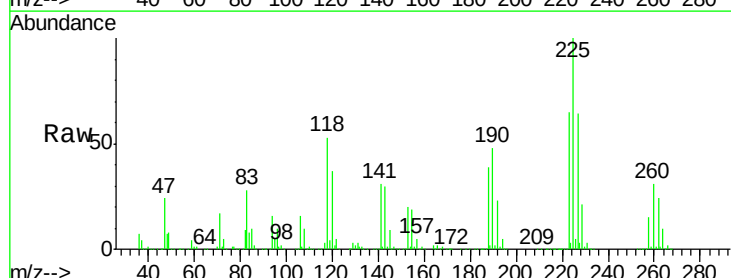
Tgt Ion:225 Resp: 1828403

Ion Ratio Lower Upper

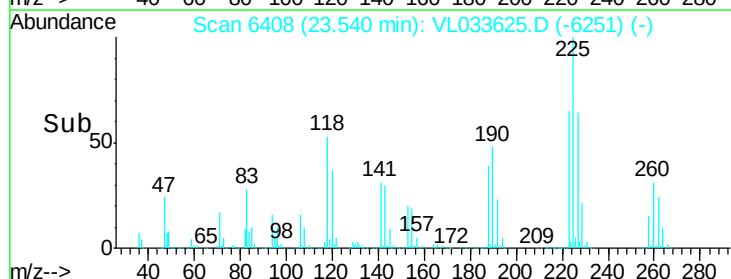
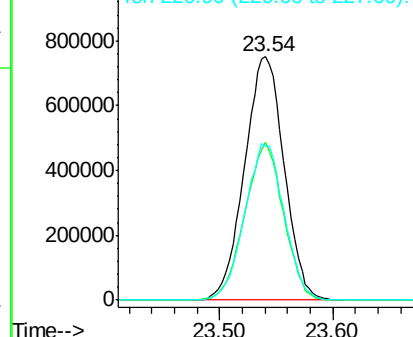
225 100

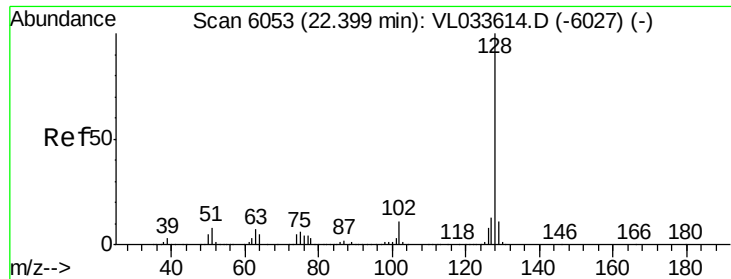
223 63.0 50.4 75.6

227 63.8 50.7 76.1



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





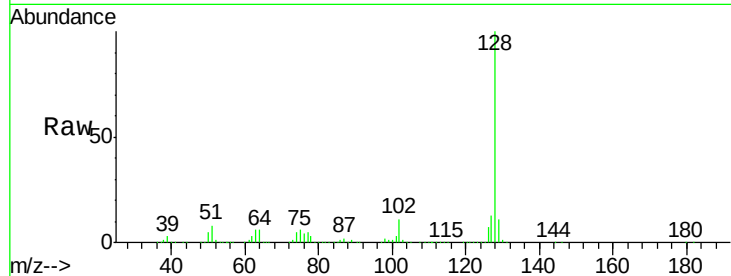
#79
Naphthalene
Concen: 12.199 ppbv
RT: 22.41 min Scan# 6055
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VL0502ABS01

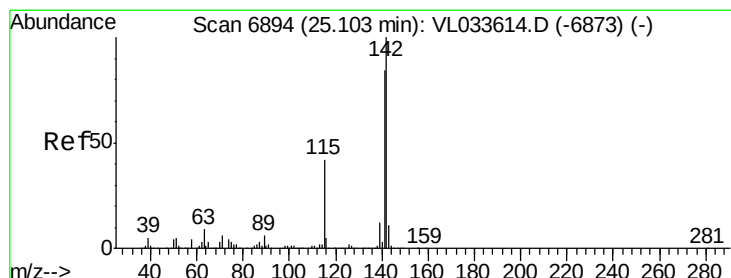
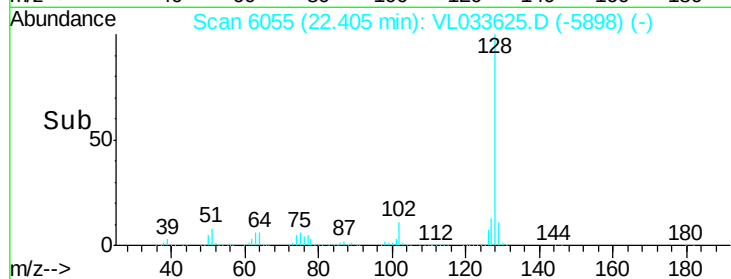
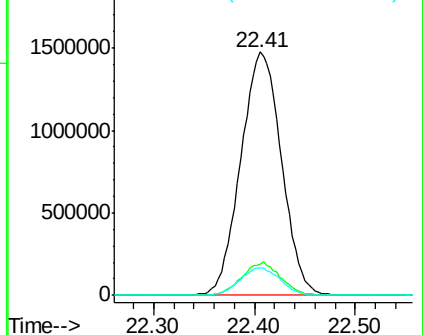
Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	16.0
129	11.4	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:18:26 AM

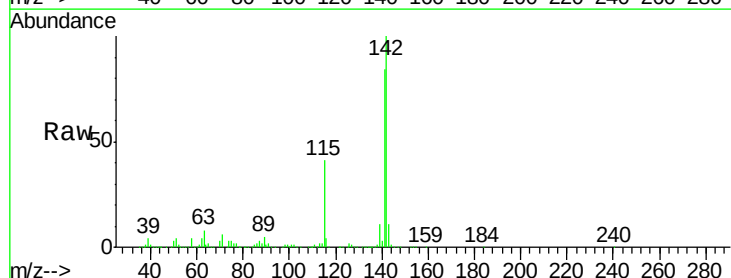


Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

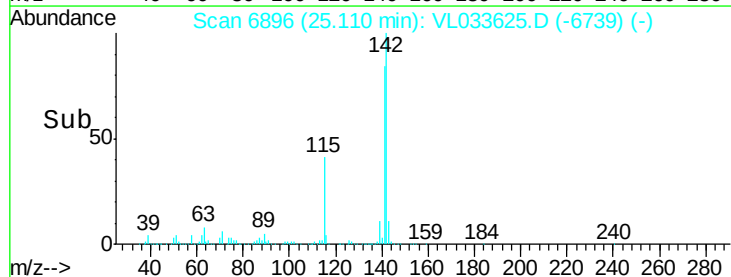
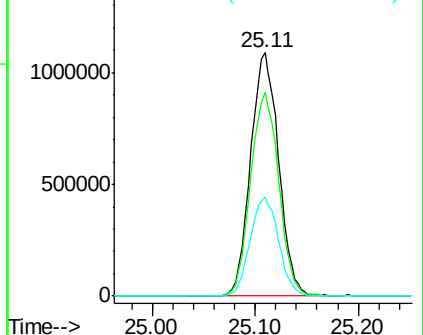


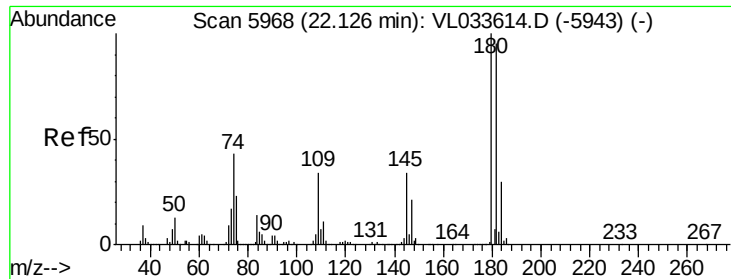
#80
Naphthalene, 2-methyl-
Concen: 13.978 ppbv
RT: 25.11 min Scan# 6896
Delta R.T. 0.01 min
Lab File: VL033625.D
Acq: 2 May 2019 12:43

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.4	67.3	100.9
115	41.3	33.8	50.8



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: 10.702 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. 0.01 min
 Lab File: VL033625.D
 Acq: 2 May 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0502ABS01

Tot Ion:	180	Resp:	2102999
Ion Ratio	Lower	Upper	
180	100		
182	96.4	76.2	114.2
184	31.0	24.5	36.7

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:18:26 AM

