

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033357.D
 Acq On : 16 Mar 2019 8:22
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:59:28 AM

Quant Time: Mar 18 08:00:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 18 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	742330	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1646405	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2021864m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1495026	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	903218	6.919	ppbv	97
3) Chlorodifluoromethane	3.01	51	845639	9.925	ppbv	98
4) Chloromethane	3.17	50	437726	9.487	ppbv	98
5) Vinyl Chloride	3.29	62	435604	9.152	ppbv	97
6) Bromomethane	3.52	94	280027	9.898	ppbv	99
7) Chloroethane	3.60	64	168648	10.140	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1095249	9.855	ppbv	99
9) Propene	3.04	41	355026	9.334	ppbv	99
10) Heptane	8.25	43	972077	10.304	ppbv	99
11) Trichlorofluoromethane	4.00	101	1313475	10.104	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	837714	9.713	ppbv	100
13) Ethanol	3.65	45	88828	4.899	ppbv	97
14) Bromoethene	3.79	108	351400	9.775	ppbv	99
15) Acetone	3.90	43	853754	7.399	ppbv	99
16) 1,3-Butadiene	3.36	39	378527	10.099	ppbv	97
17) tert-Butyl alcohol	4.35	59	158853	9.782	ppbv	98
18) 1,1-Dichloroethene	4.35	96	372145	9.437	ppbv	98
19) Isopropyl Alcohol	4.02	45	560973	10.220	ppbv	# 99
20) Methylene Chloride	4.41	84	314699	8.362	ppbv	96
21) Allyl Chloride	4.48	41	570004	10.183	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	383194	10.027	ppbv	96
23) Vinyl Acetate	5.16	43	1307719	9.794	ppbv	100
24) 1,1-Dichloroethane	5.09	63	908329	9.420	ppbv	98
25) Ethyl Acetate	5.77	43	1626011	9.693	ppbv	100
26) Hexane	5.78	57	715304	9.539	ppbv	99
27) Carbon Disulfide	4.62	76	918985	10.645	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1022559	9.180	ppbv	99
29) Chloroform	5.85	83	1211366	9.865	ppbv	99
30) Cyclohexane	7.25	84	594806	9.893	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	766114	10.218	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1201826	9.969	ppbv	99
34) 2-Butanone	5.33	43	1027977	9.507	ppbv	98
35) Carbon Tetrachloride	7.14	117	1289289	11.108	ppbv	99
36) Benzene	7.01	78	1465315	9.945	ppbv	99
37) 1,2-Dichloroethane	6.42	62	944624	10.139	ppbv	99
38) Trichloroethene	7.97	130	579603	10.395	ppbv	98
39) 1,2-Dichloropropane	7.74	63	557768	10.108	ppbv	97
40) 1,4-Dioxane	7.96	88	199341	10.259	ppbv	96
41) Tetrahydrofuran	6.15	42	597178	10.350	ppbv	99
42) Bromodichloromethane	7.92	83	1346473	10.779	ppbv	97
43) Methyl Methacrylate	8.14	69	611315	10.655	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033357.D
 Acq On : 16 Mar 2019 8:22
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

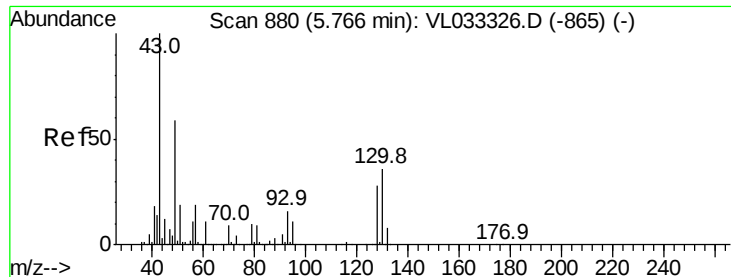
Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:59:28 AM

Quant Time: Mar 18 08:00:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 18 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2524907	10.346	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	834287	11.779	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	955876	11.461	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	629405	10.324	ppbv	95
48) Dibromochloromethane	10.46	129	1310619	12.818	ppbv	99
49) Bromoform	13.21	173	1187066	12.239	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1609955	10.541	ppbv	99
51) 2-Hexanone	10.27	43	1437090	12.196	ppbv #	99
52) Tetrachloroethene	11.38	164	644326	10.497	ppbv	98
53) Toluene	9.95	91	1995747	11.920	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1157424	11.230	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	928704	10.268	ppbv	95
57) Chlorobenzene	12.31	112	1556257	9.719	ppbv	98
58) Ethyl Benzene	12.87	91	2904558	10.155	ppbv	99
59) m/p-Xylene	13.16	91	4982441m	20.270	ppbv	
60) o-Xylene	13.86	91	2461098	10.263	ppbv	99
61) Styrene	13.69	104	1803342	10.741	ppbv	99
62) Isopropylbenzene	14.83	105	3415169	10.244	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1707833	9.852	ppbv	100
64) n-propylbenzene	15.73	120	872550	10.343	ppbv	99
65) tert-Butylbenzene	16.91	119	3049680	10.161	ppbv	99
66) Benzyl Chloride	17.16	91	1615124	13.022	ppbv	99
67) sec-Butylbenzene	17.46	105	4360911	10.254	ppbv	100
69) p-Isopropyltoluene	17.82	119	3637122	10.468	ppbv	100
70) n-Butylbenzene	18.72	91	3845078	10.378	ppbv	100
71) 2-Chlorotoluene	15.62	91	2642018	10.181	ppbv	100
72) 4-Ethyltoluene	16.01	105	2869327	10.537	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2769846	10.441	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	2834583	10.089	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	1632914	9.861	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1627576	10.151	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1612642	10.282	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	845889	8.996	ppbv	99
79) Naphthalene	22.42	128	2773764	10.245	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1421796	11.074	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1378413	9.984	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 742330

Ion Ratio Lower Upper

49 100

128 47.2 23.5 70.6

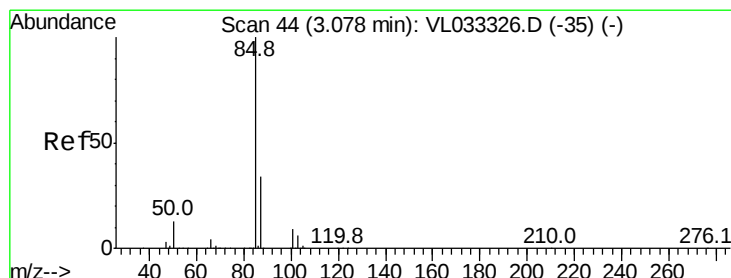
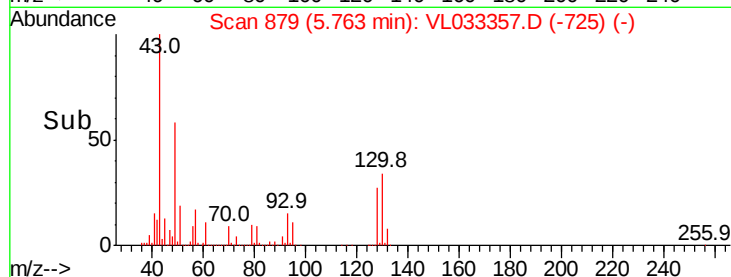
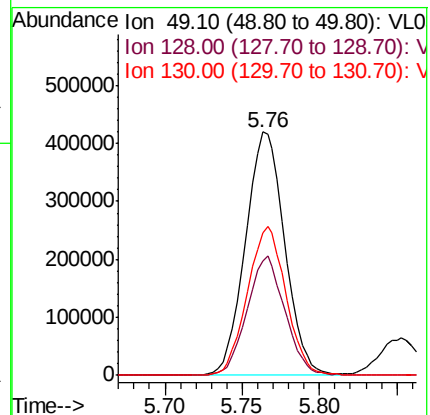
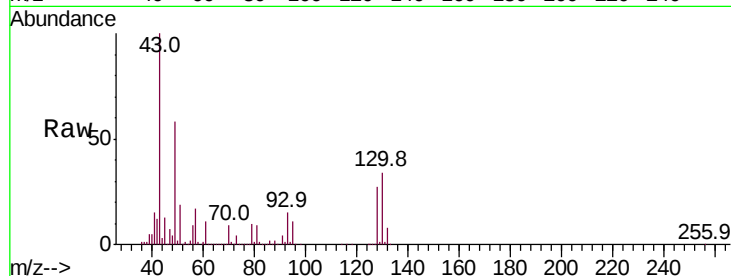
130 60.1 30.1 90.3

Manual Integrations

APPROVED

MMDadoda

3/19/2019 9:59:28 AM



#2

Dichlorodifluoromethane

Concen: 6.919 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033357.D

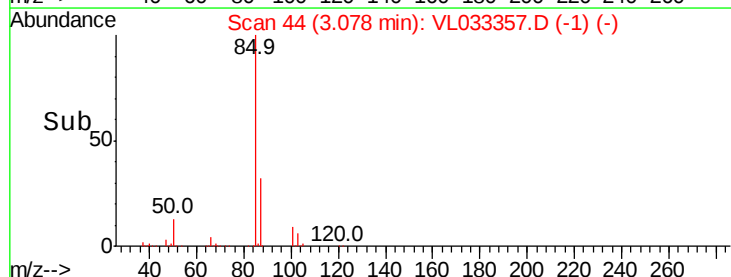
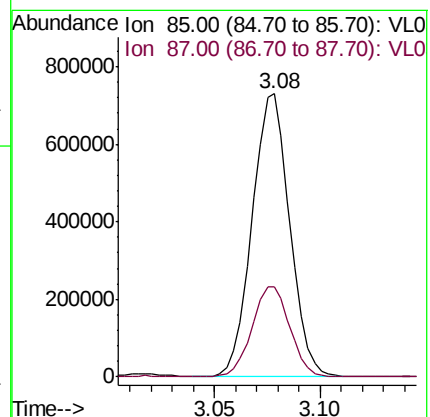
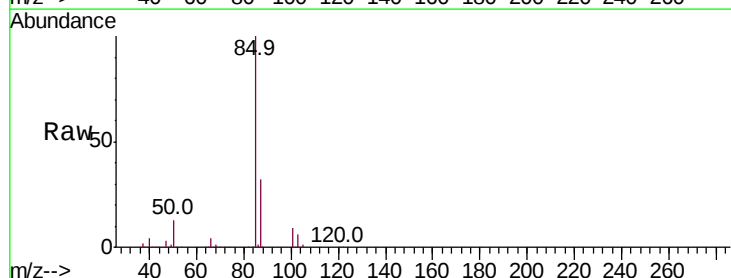
Acq: 16 Mar 2019 8:22

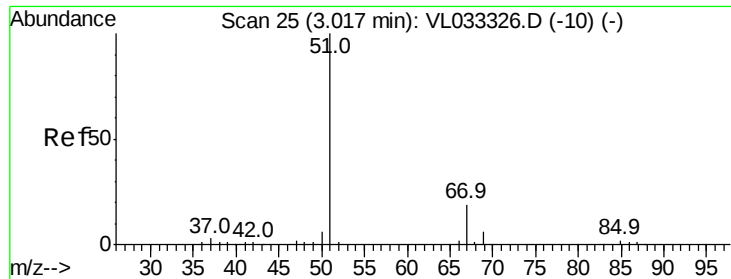
Tgt Ion: 85 Resp: 903218

Ion Ratio Lower Upper

85 100

87 31.9 26.9 40.3





#3

Chlorodifluoromethane

Concen: 9.925 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 845639

Ion Ratio Lower Upper

51 100

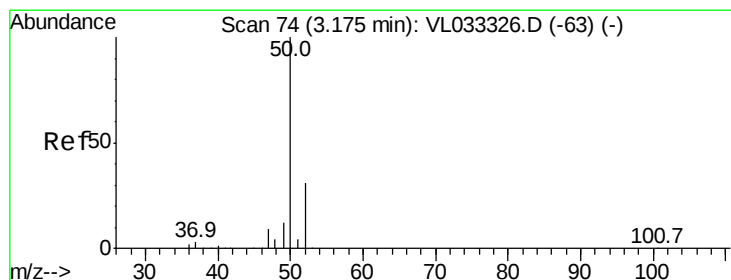
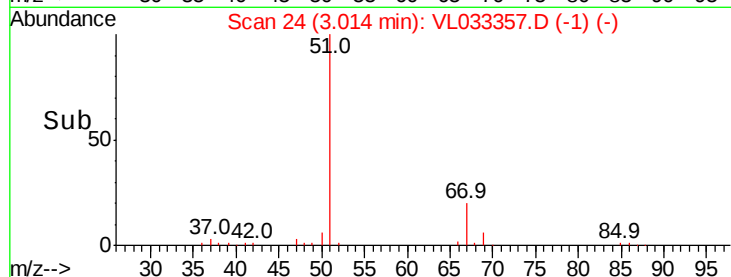
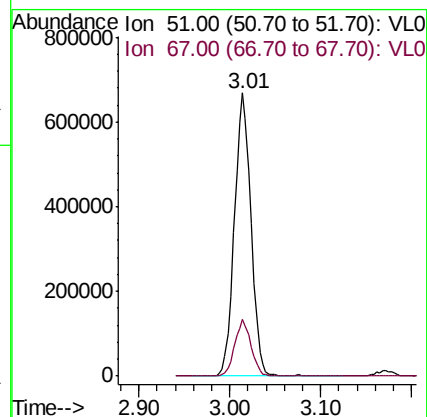
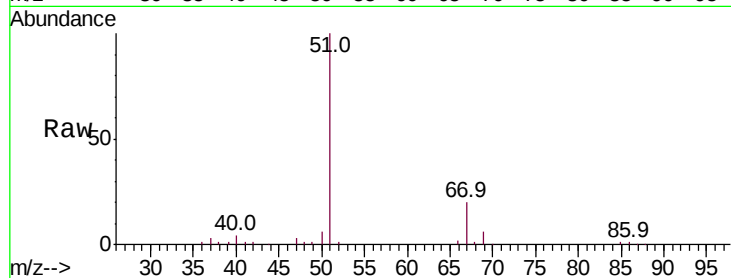
67 19.5 14.9 22.3

Manual Integrations

APPROVED

MMDadoda

3/19/2019 9:59:28 AM



#4

Chloromethane

Concen: 9.487 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033357.D

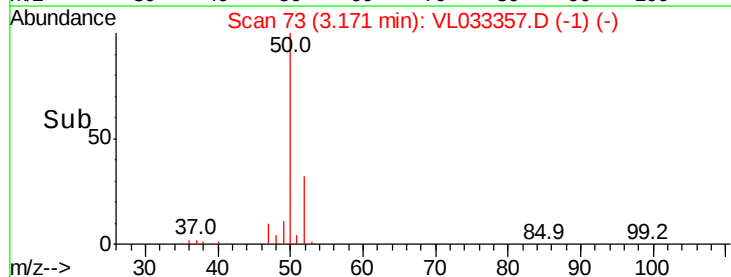
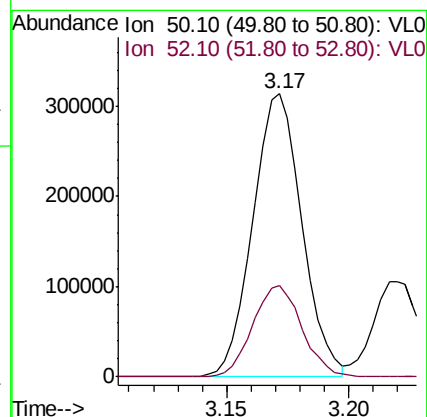
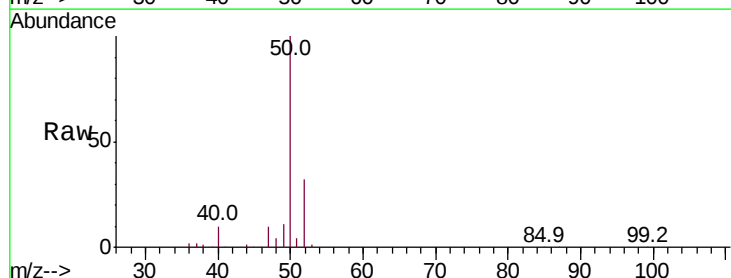
Acq: 16 Mar 2019 8:22

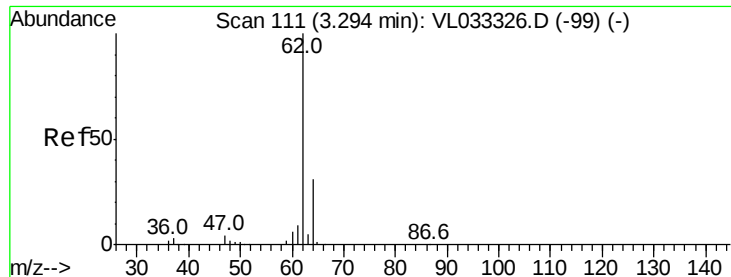
Tgt Ion: 50 Resp: 437726

Ion Ratio Lower Upper

50 100

52 32.3 25.0 37.6





#5

Vinyl Chloride

Concen: 9.152 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 435604

Ion Ratio Lower Upper

62 100

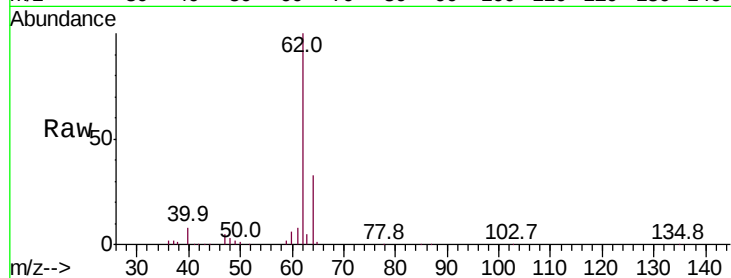
64 32.8 25.0 37.6

Manual Integrations

APPROVED

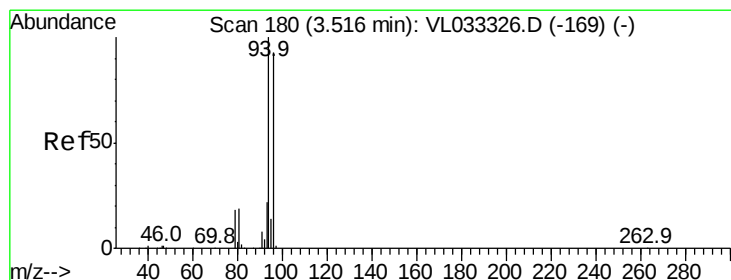
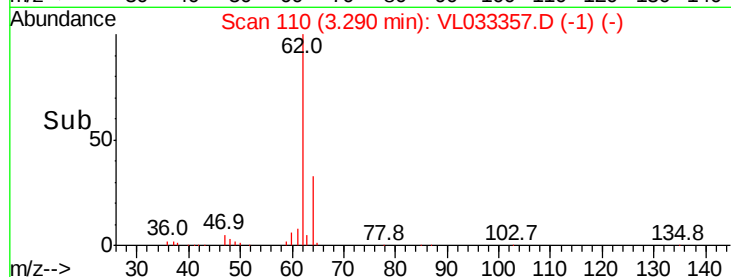
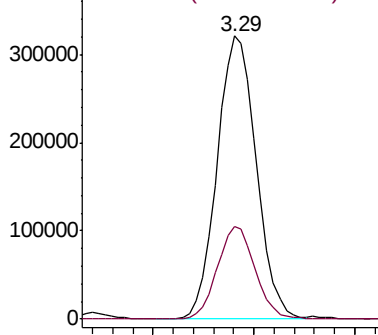
MMDadoda

3/19/2019 9:59:28 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.898 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL033357.D

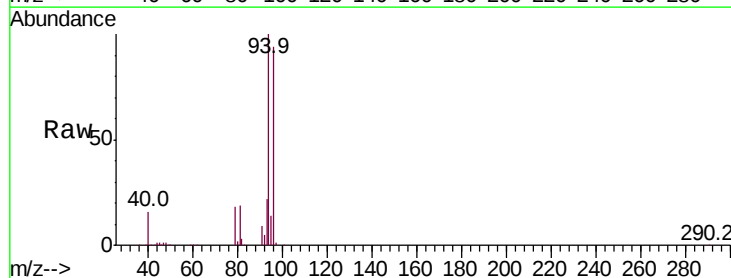
Acq: 16 Mar 2019 8:22

Tgt Ion: 94 Resp: 280027

Ion Ratio Lower Upper

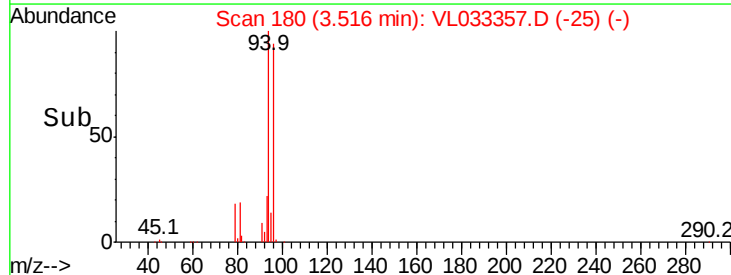
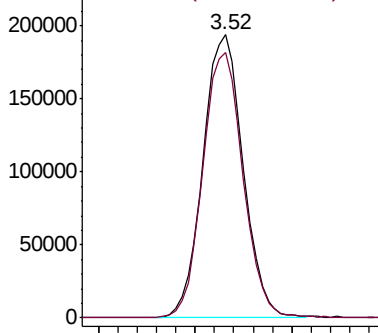
94 100

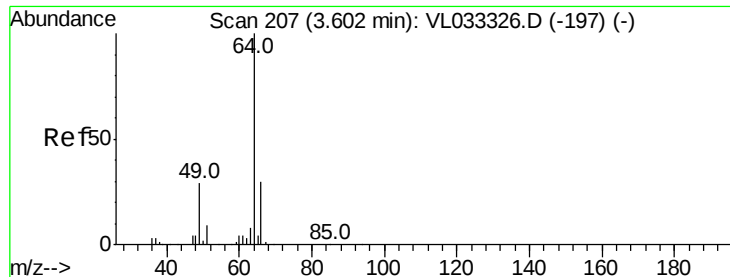
96 93.8 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.140 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 168648

Ion Ratio Lower Upper

64 100

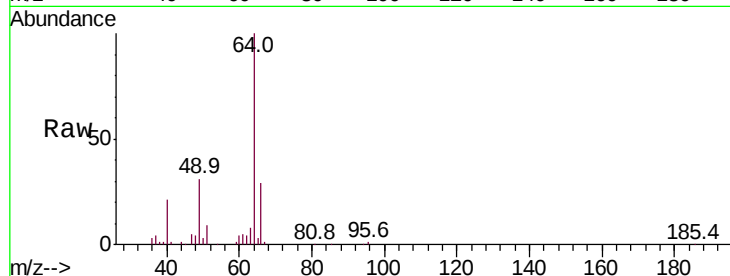
66 29.0 24.0 36.0

Manual Integrations

APPROVED

MMDadoda

3/19/2019 9:59:28 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

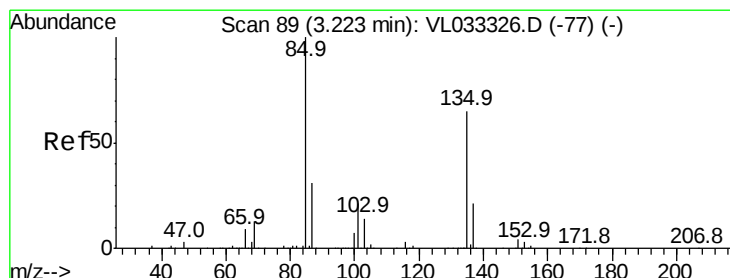
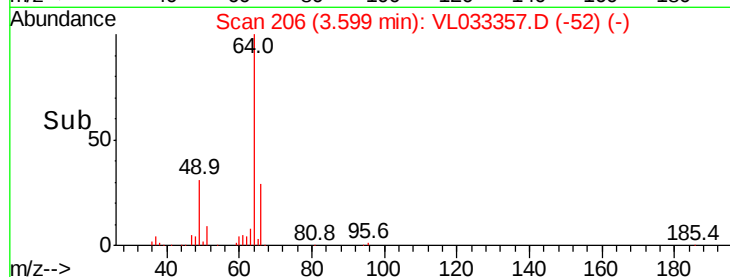
3.60

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.855 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033357.D

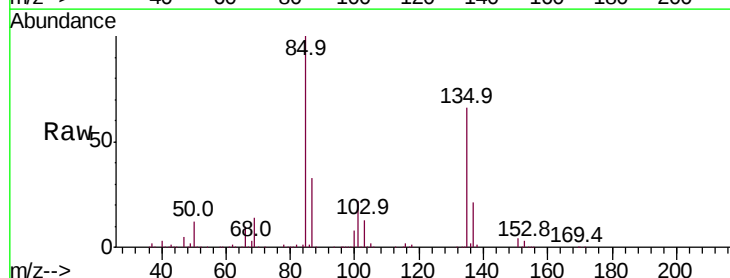
Acq: 16 Mar 2019 8:22

Tgt Ion: 85 Resp: 1095249

Ion Ratio Lower Upper

85 100

135 66.2 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1000000

800000

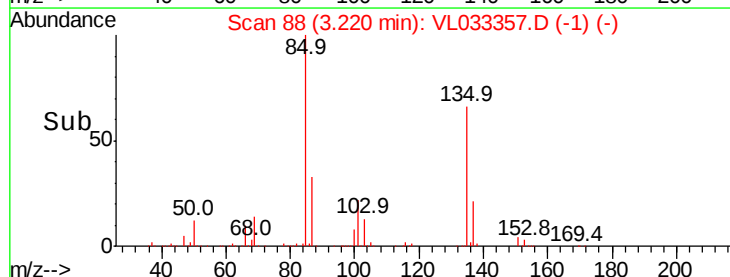
600000

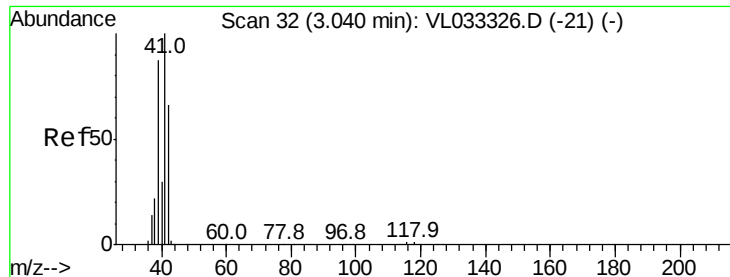
400000

200000

0

Time-->





#9

Propene

Concen: 9.334 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 355026

Ion Ratio Lower Upper

41 100

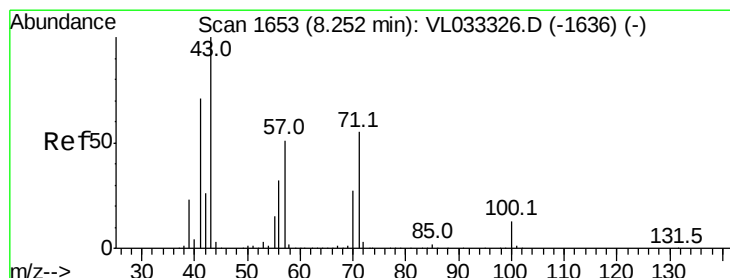
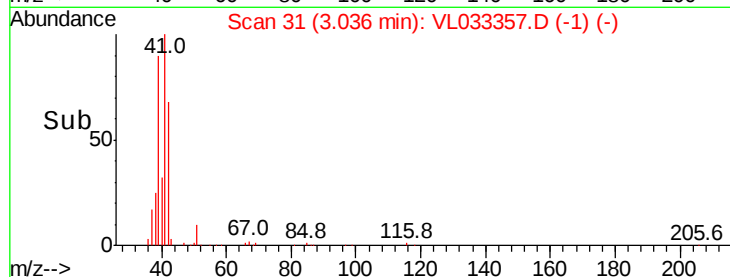
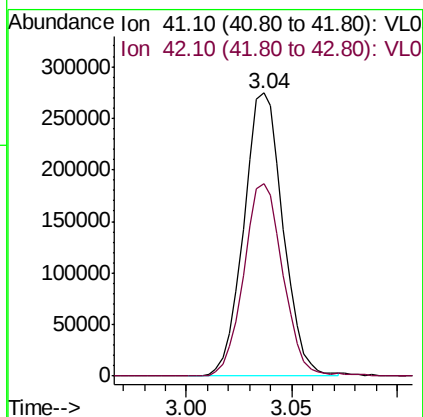
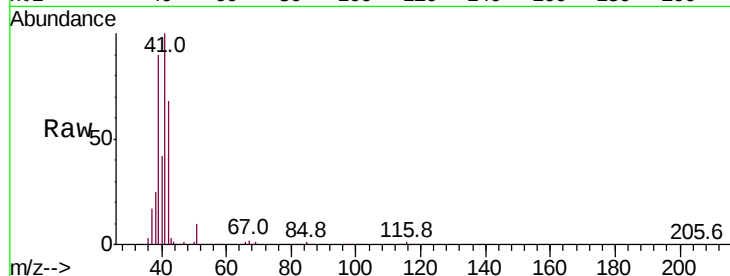
42 68.5 55.2 82.8

Manual Integrations

APPROVED

MMDadoda

3/19/2019 9:59:28 AM



#10

Heptane

Concen: 10.304 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033357.D

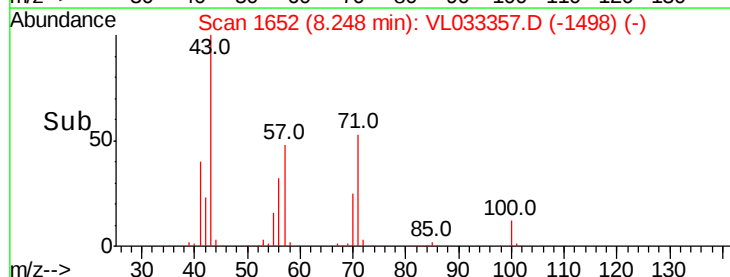
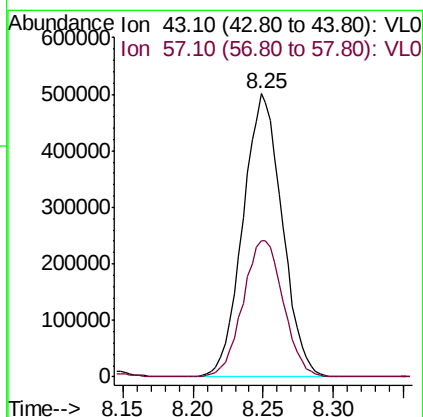
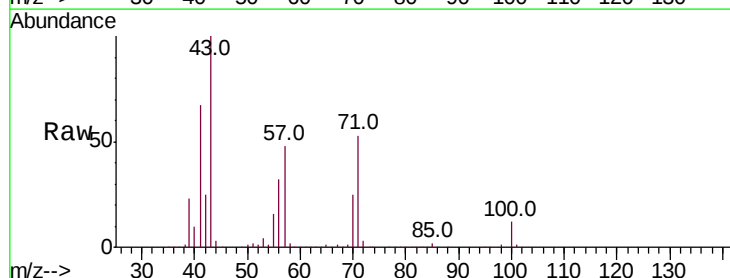
Acq: 16 Mar 2019 8:22

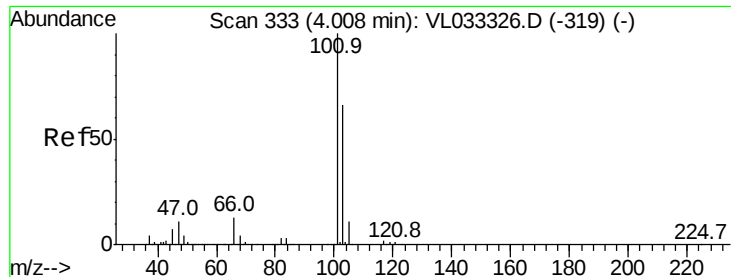
Tgt Ion: 43 Resp: 972077

Ion Ratio Lower Upper

43 100

57 49.9 40.4 60.6





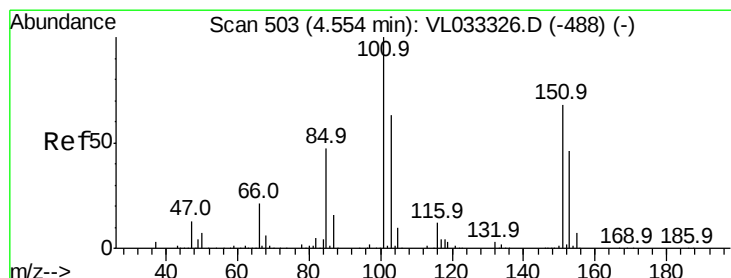
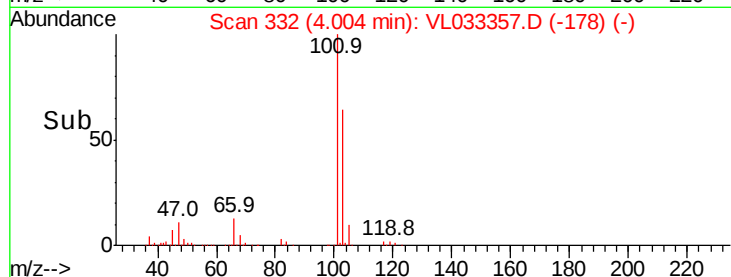
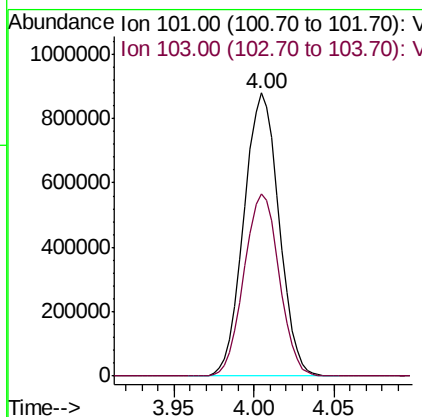
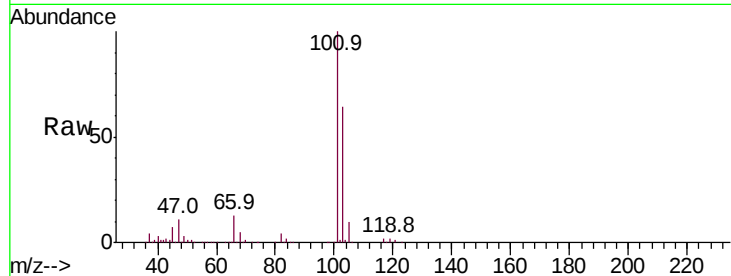
#11
 Trichlorofluoromethane
 Concen: 10.104 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1313475
 Ion Ratio Lower Upper
 101 100
 103 64.2 52.9 79.3

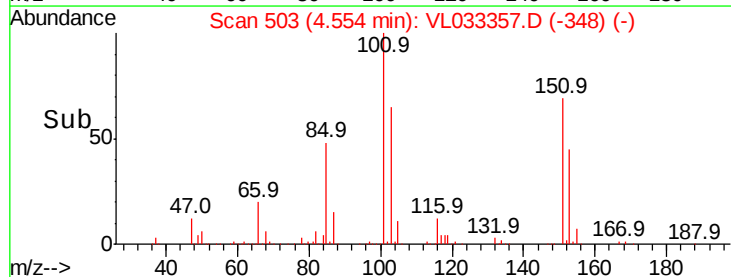
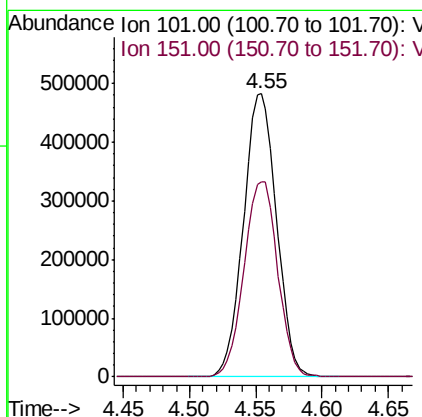
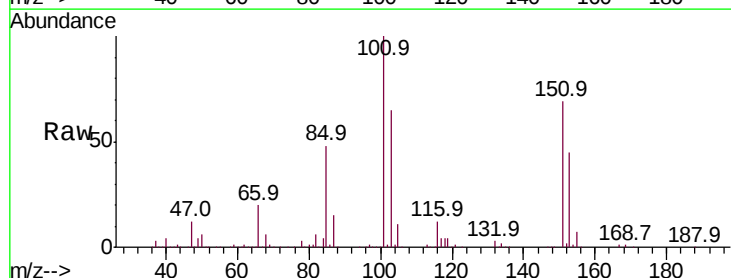
Manual Integrations
 APPROVED

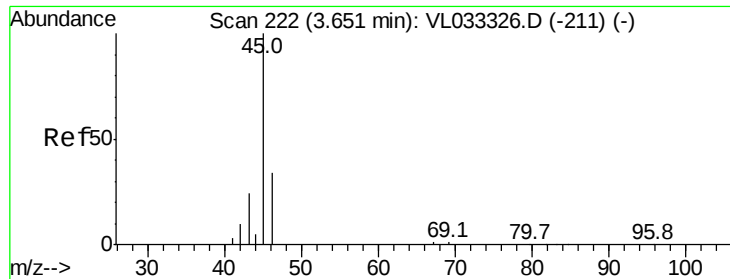
MMDadoda
 3/19/2019 9:59:28 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.713 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Tgt Ion:101 Resp: 837714
 Ion Ratio Lower Upper
 101 100
 151 70.4 56.3 84.5





#13

Ethanol

Concen: 4.899 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 88828

Ion Ratio Lower Upper

45 100

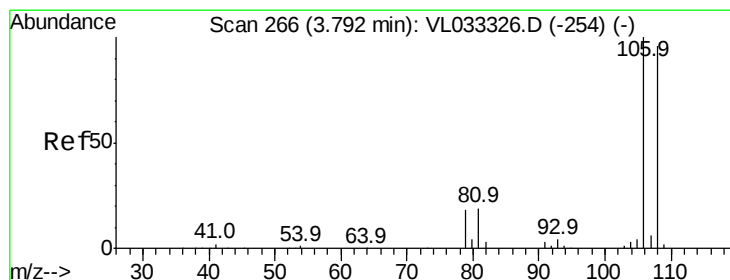
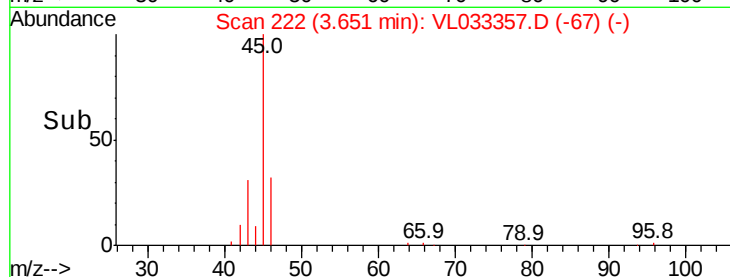
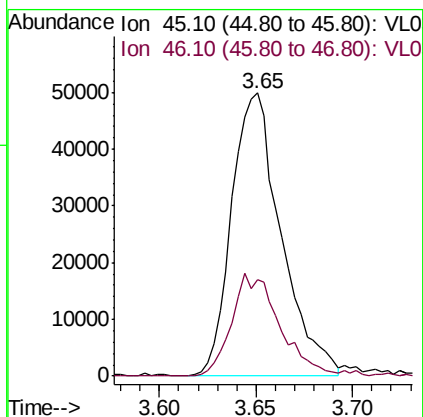
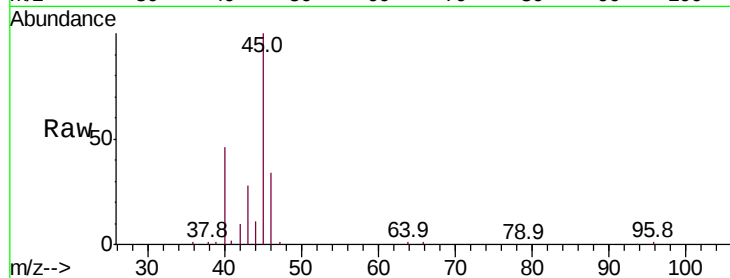
46 35.5 14.9 59.7

Manual Integrations

APPROVED

MMDadoda

3/19/2019 9:59:28 AM



#14

Bromoethene

Concen: 9.775 ppbv

RT: 3.79 min Scan# 265

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

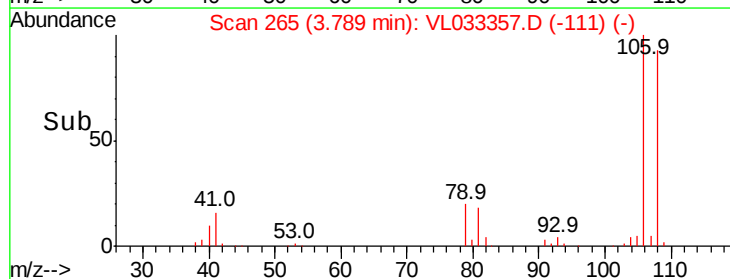
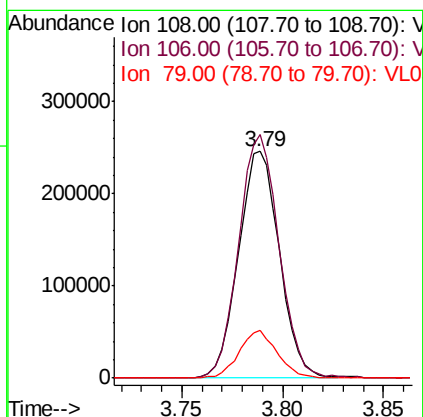
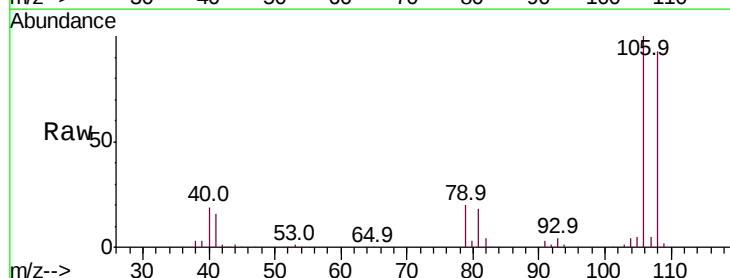
Tgt Ion: 108 Resp: 351400

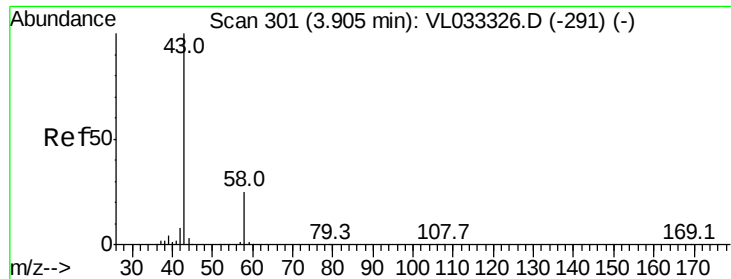
Ion Ratio Lower Upper

108 100

106 106.4 86.2 129.2

79 19.6 15.4 23.2





#15

Acetone

Concen: 7.399 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 853754

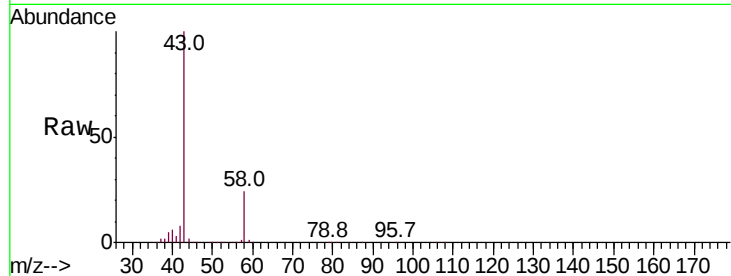
Ion Ratio Lower Upper

43 100

58 24.9 20.4 30.6

Manual Integrations
APPROVED

MMDadoda
3/19/2019 9:59:28 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

600000

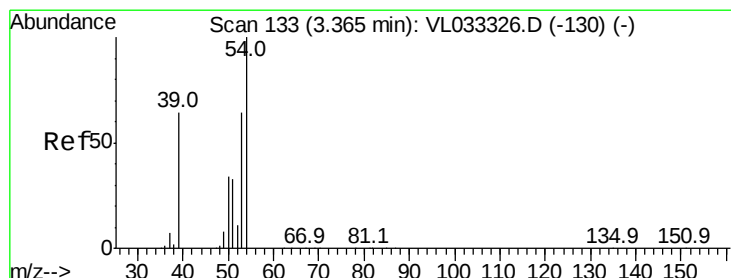
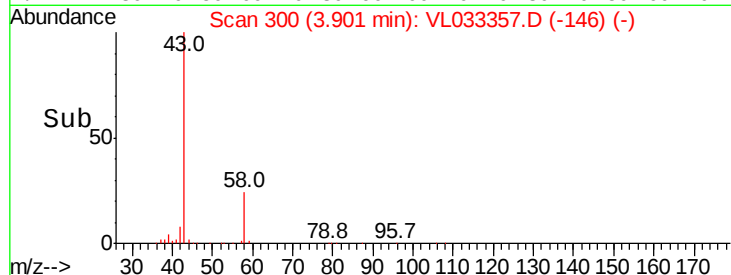
400000

200000

0

3.85 3.90 3.95

Time-->



#16

1,3-Butadiene

Concen: 10.099 ppbv

RT: 3.36 min Scan# 133

Delta R.T. -0.00 min

Lab File: VL033357.D

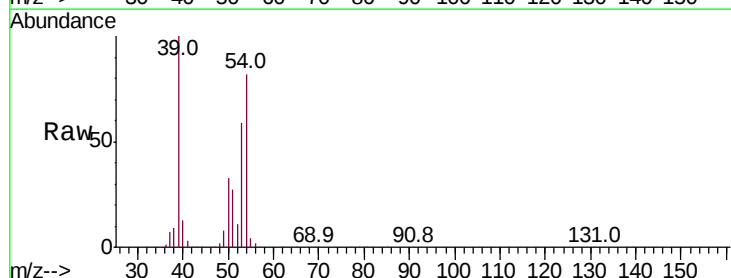
Acq: 16 Mar 2019 8:22

Tgt Ion: 39 Resp: 378527

Ion Ratio Lower Upper

39 100

54 92.7 76.8 115.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

300000

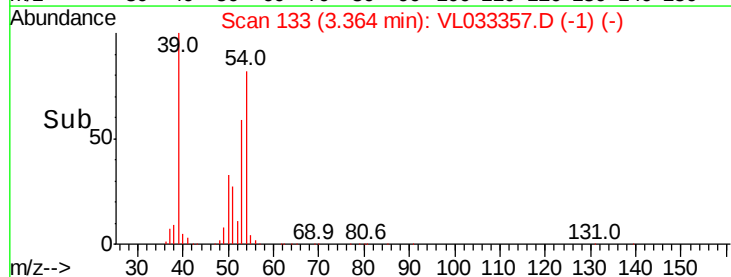
200000

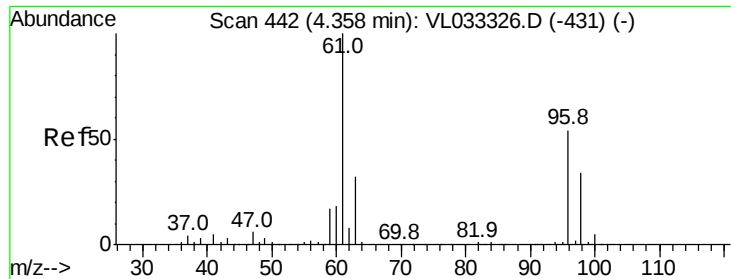
100000

0

3.34 3.36 3.38 3.40

Time-->





#17

tert-Butyl alcohol

Concen: 9.782 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 59 Resp: 158853

Ion Ratio Lower Upper

59 100

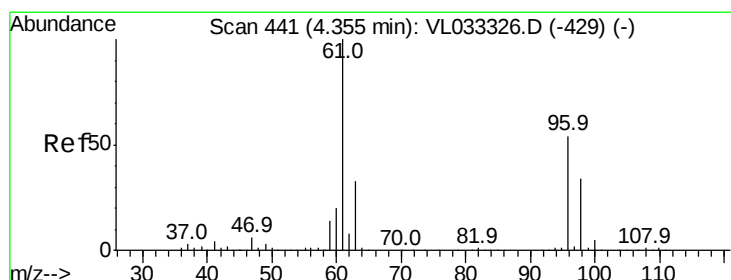
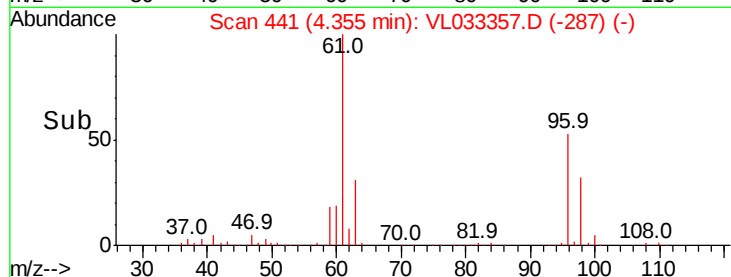
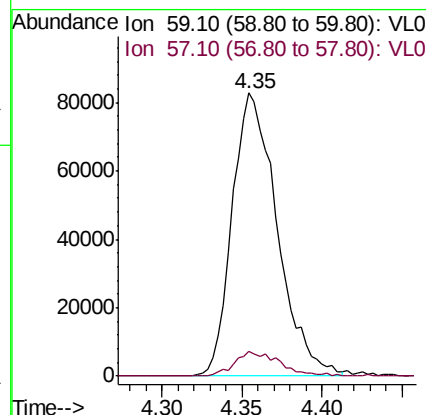
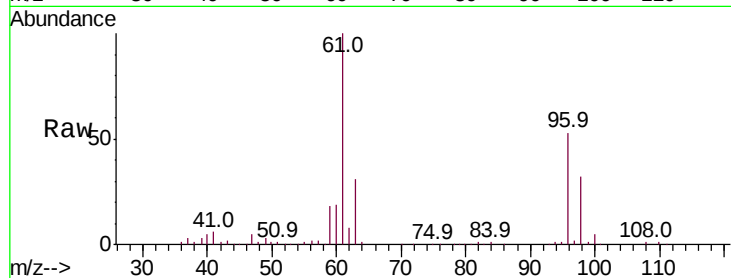
57 9.0 7.7 11.5

Manual Integrations

APPROVED

MMDadoda

3/19/2019 9:59:28 AM



#18

1,1-Dichloroethene

Concen: 9.437 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

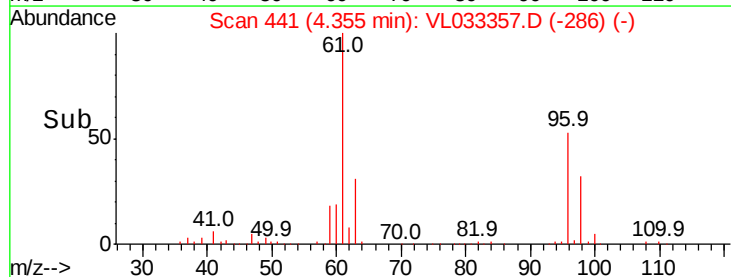
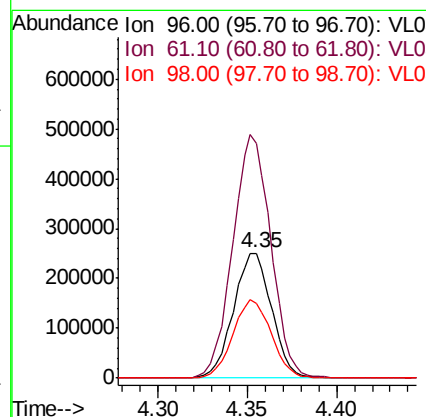
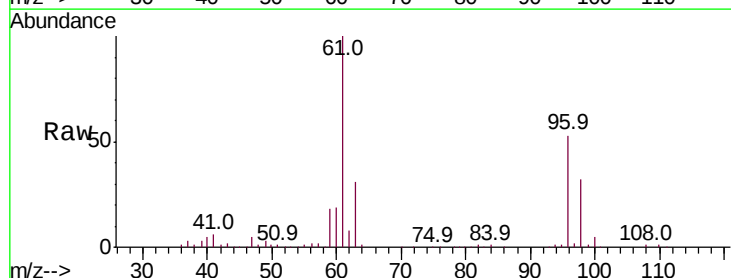
Tgt Ion: 96 Resp: 372145

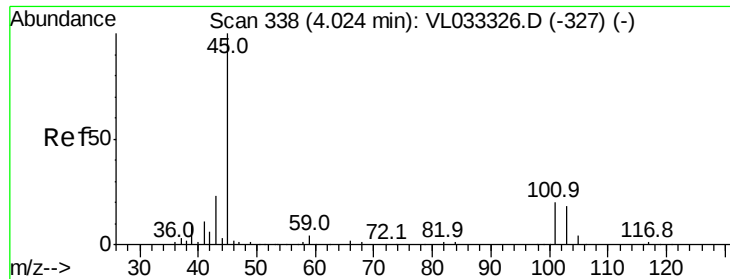
Ion Ratio Lower Upper

96 100

61 187.4 148.6 222.8

98 60.1 50.3 75.5





#19

Isopropyl Alcohol

Concen: 10.220 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 560973

Ion Ratio Lower Upper

45 100

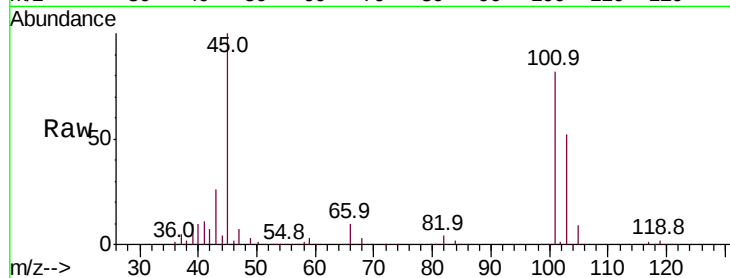
58 2.4 1.5 2.3#

Manual Integrations

APPROVED

MMDadoda

3/19/2019 9:59:28 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

300000

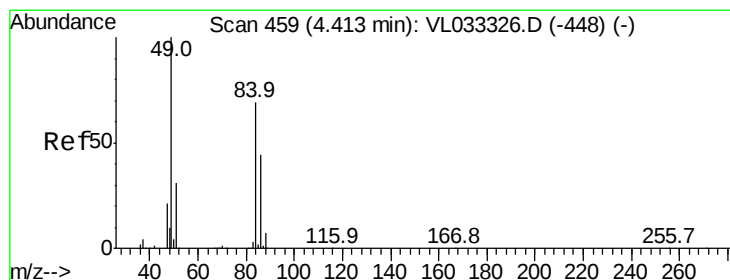
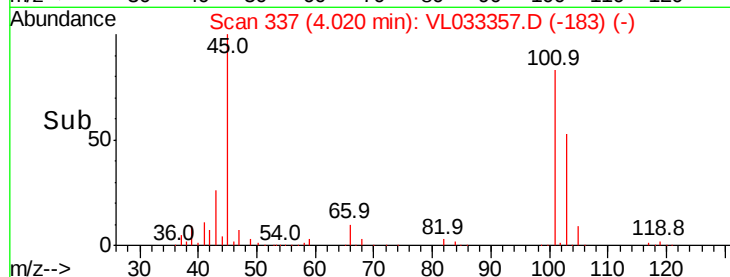
200000

100000

0

Time-->

3.95 4.00 4.05 4.10



#20

Methylene Chloride

Concen: 8.362 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Tgt Ion: 84 Resp: 314699

Ion Ratio Lower Upper

84 100

49 152.9 115.4 173.0

51 45.3 35.8 53.6

86 64.0 50.6 75.8

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

500000

400000

300000

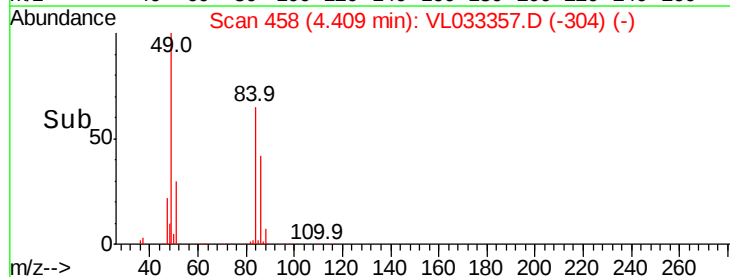
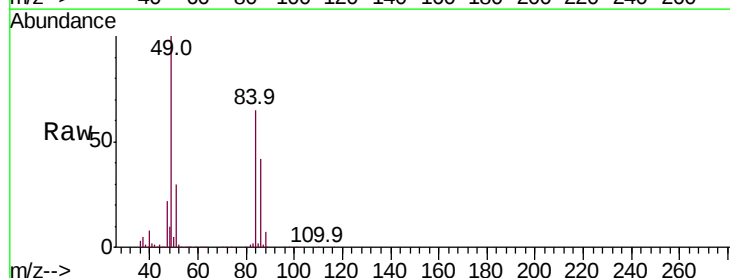
200000

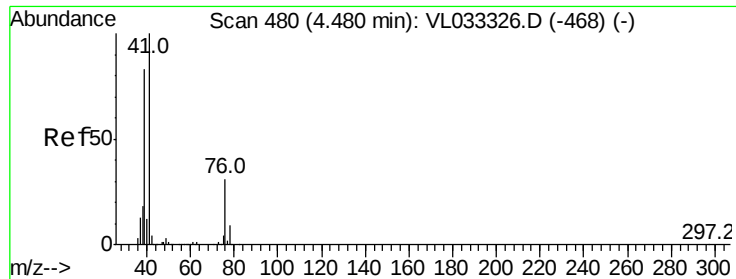
100000

0

Time-->

4.35 4.40 4.45





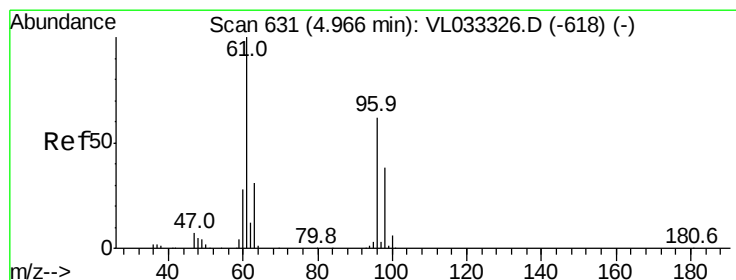
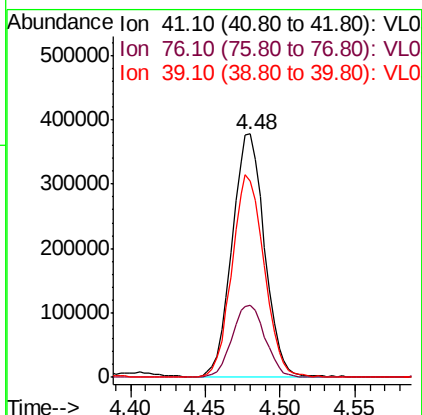
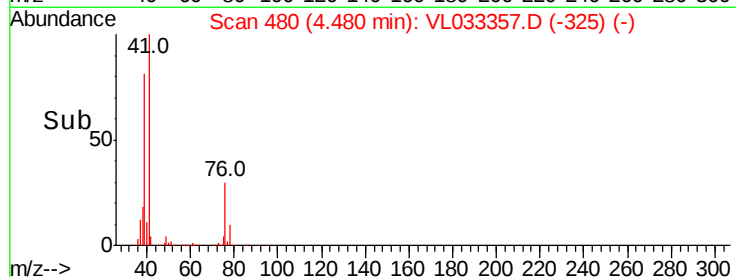
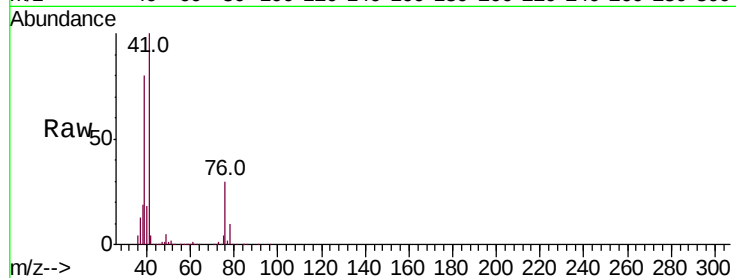
#21
Allvl Chloride
Concen: 10.183 ppbv
RT: 4.48 min Scan# 480
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.4	25.0	37.4
39	82.7	65.9	98.9

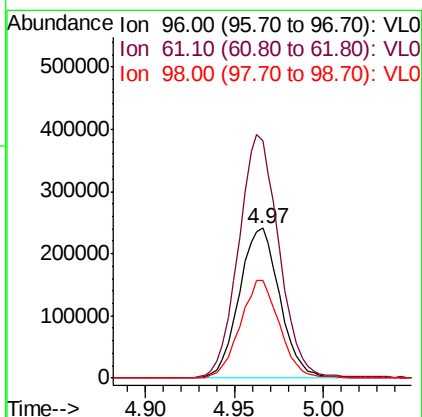
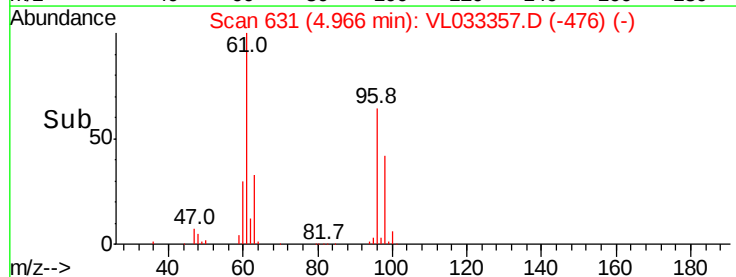
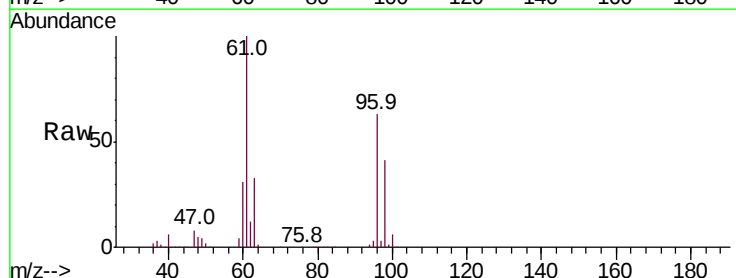
Manual Integrations
APPROVED

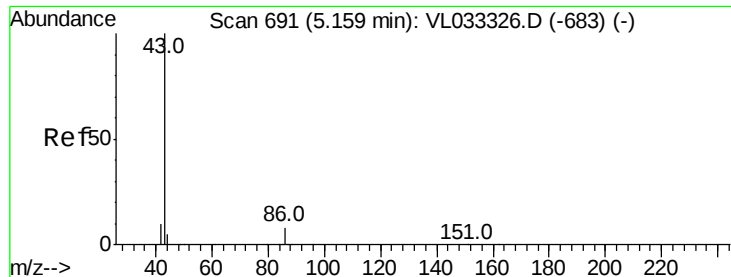
MMDadoda
3/19/2019 9:59:28 AM



#22
trans-1,2-Dichloroethene
Concen: 10.027 ppbv
RT: 4.97 min Scan# 631
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.7	130.0	195.0
98	65.2	50.0	75.0





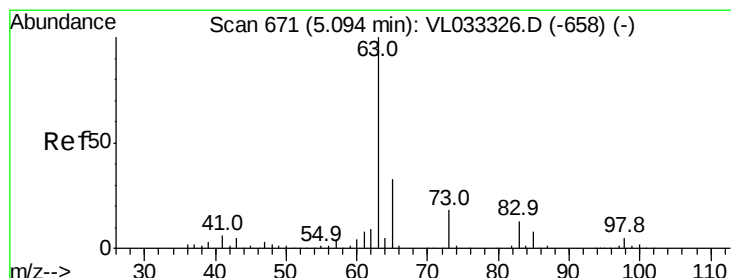
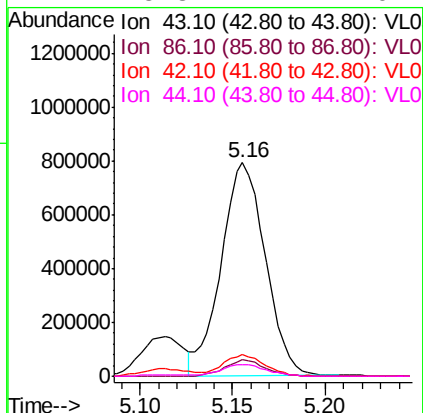
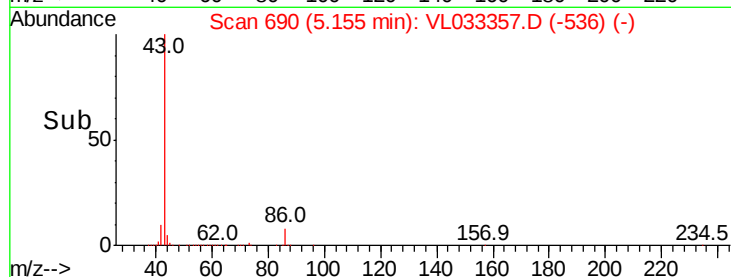
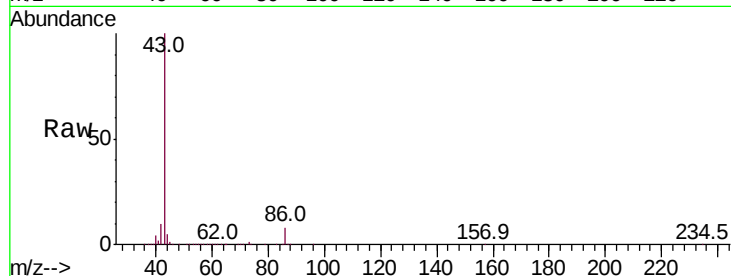
#23
 Vinyl Acetate
 Concen: 9.794 ppbv
 RT: 5.16 min Scan# 690
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.5	6.2	9.2	
42	10.2	8.1	12.1	
44	5.3	4.1	6.1	

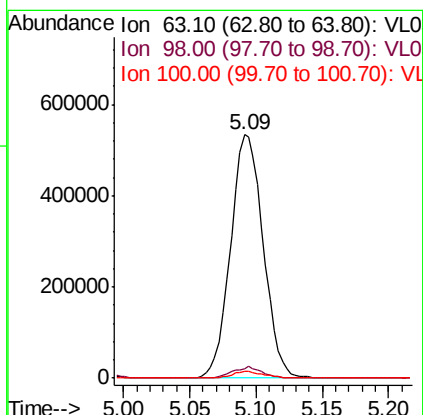
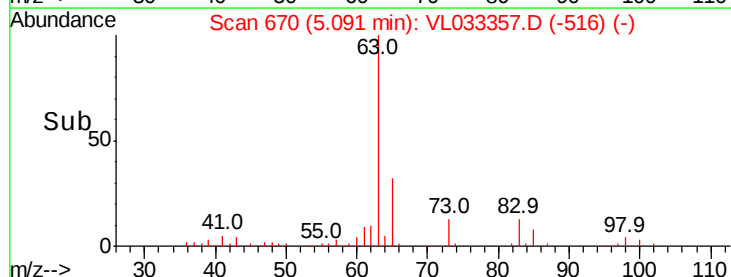
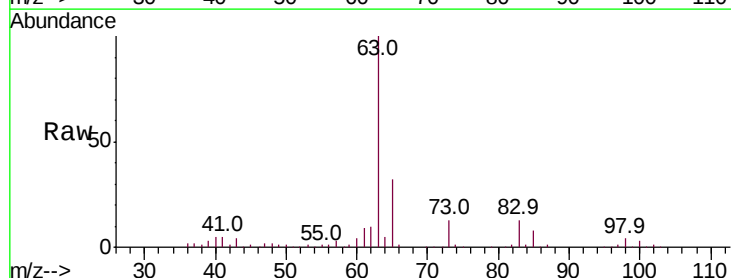
Manual Integrations
 APPROVED

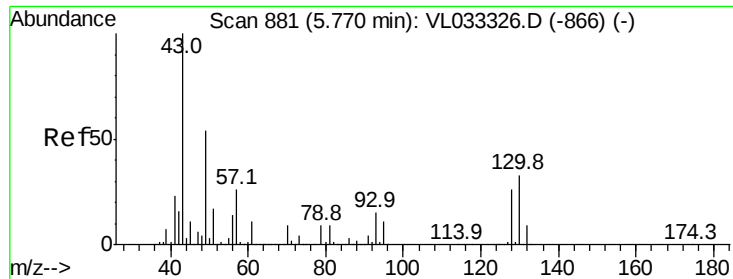
MMDadoda
 3/19/2019 9:59:28 AM



#24
 1,1-Dichloroethane
 Concen: 9.420 ppbv
 RT: 5.09 min Scan# 670
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	3.9	2.4	7.1	
100	2.7	1.3	3.8	





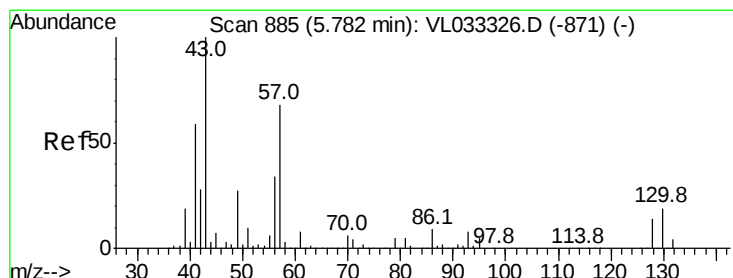
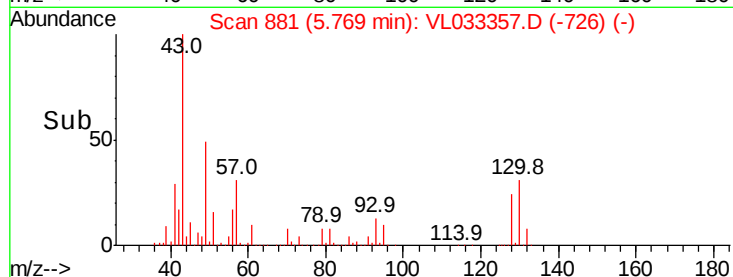
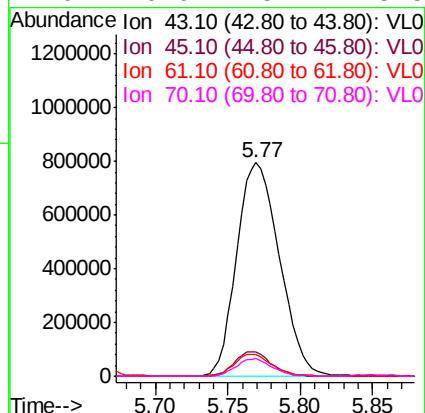
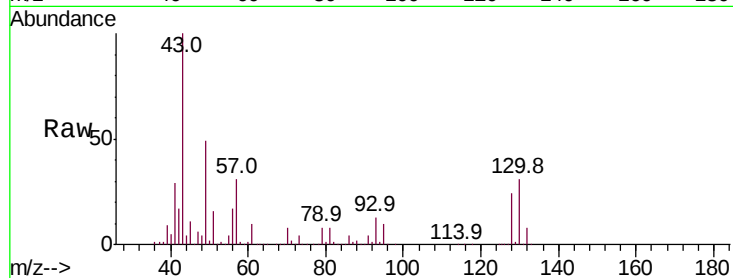
#25
Ethyl Acetate
Concen: 9.693 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	43	Resp	1626011
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.2	7.4	11.2
70	6.9	5.7	8.5

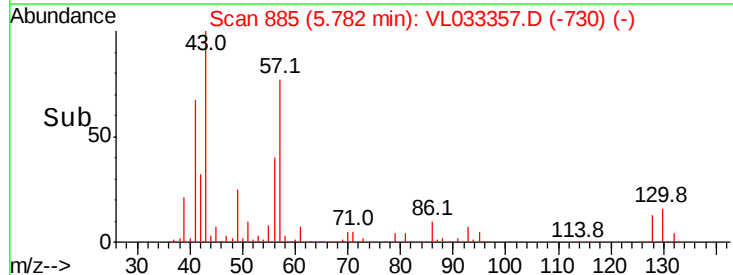
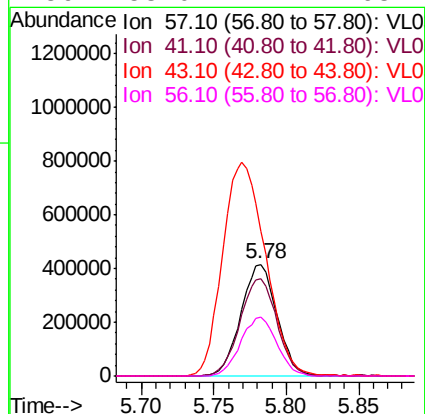
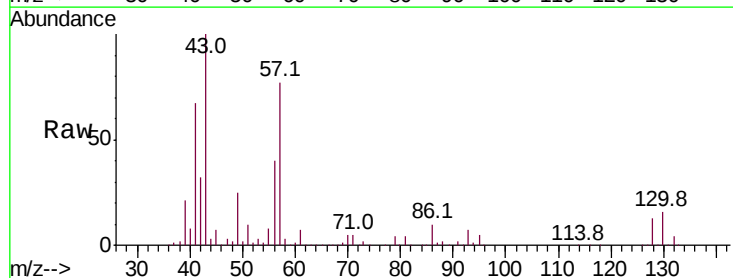
Manual Integrations
APPROVED

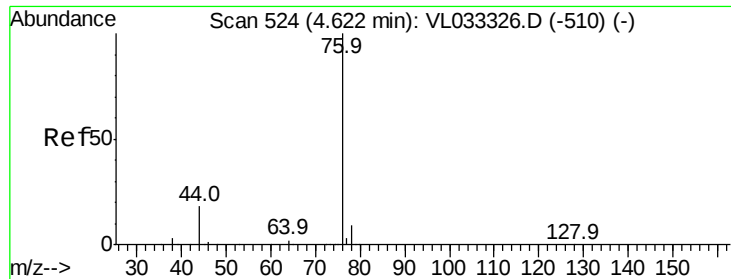
MMDadoda
3/19/2019 9:59:28 AM



#26
Hexane
Concen: 9.539 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Tgt Ion	57	Resp	715304
Ion	Ratio	Lower	Upper
57	100		
41	89.7	70.5	105.7
43	229.3	181.8	272.8
56	53.0	42.2	63.2





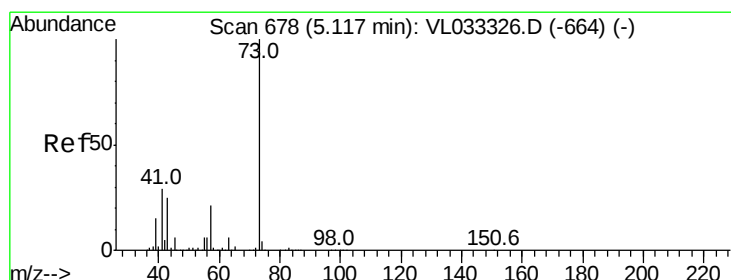
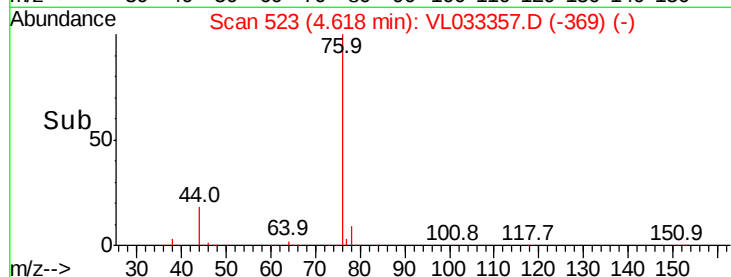
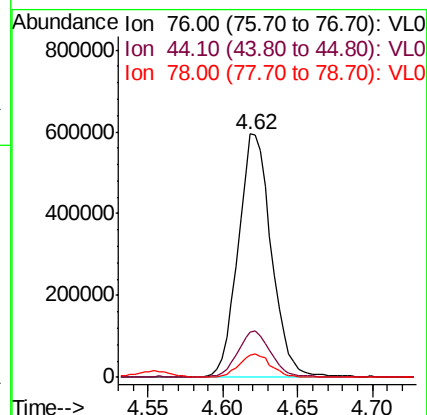
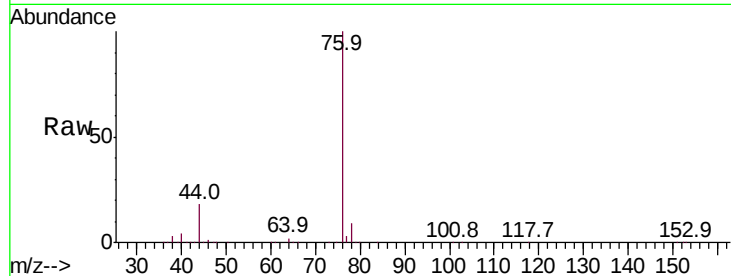
#27
Carbon Disulfide
Concen: 10.645 ppbv
RT: 4.62 min Scan# 523
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
76	100		
44	18.7	15.2	22.8
78	9.3	7.2	10.8

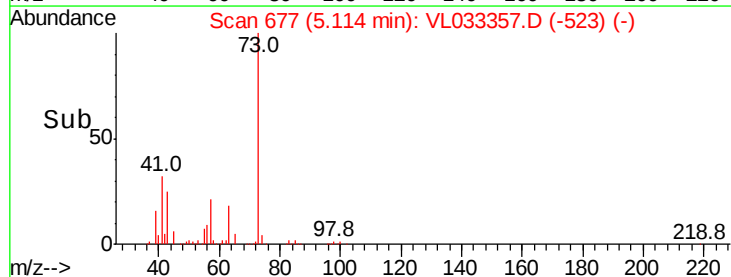
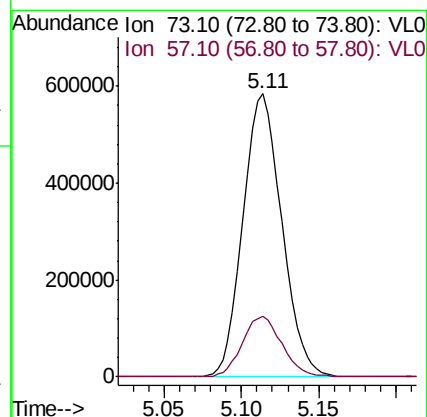
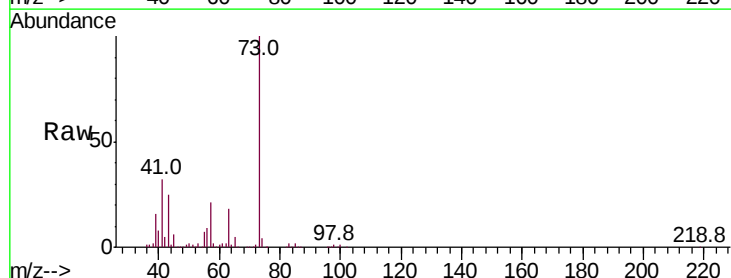
Manual Integrations
APPROVED

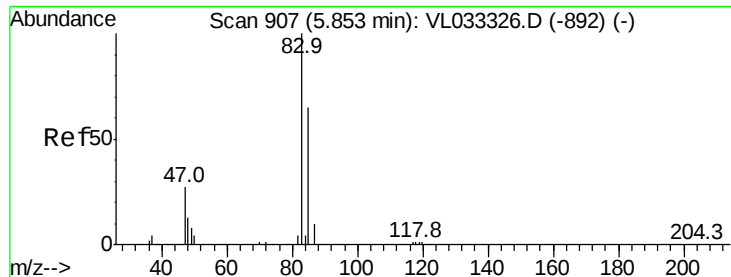
MMDadoda
3/19/2019 9:59:28 AM



#28
Methyl tert-Butyl Ether
Concen: 9.180 ppbv
RT: 5.11 min Scan# 677
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.4	26.0





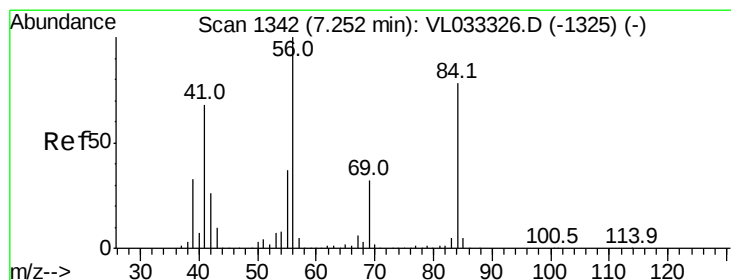
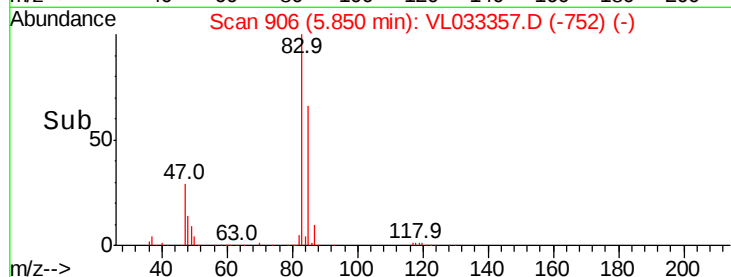
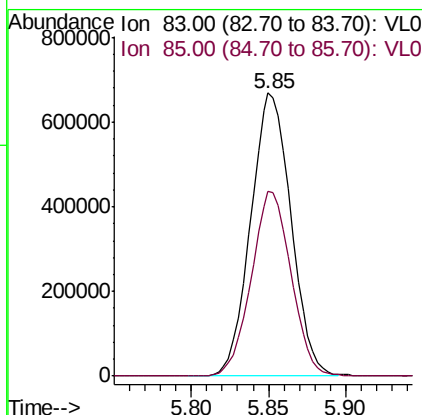
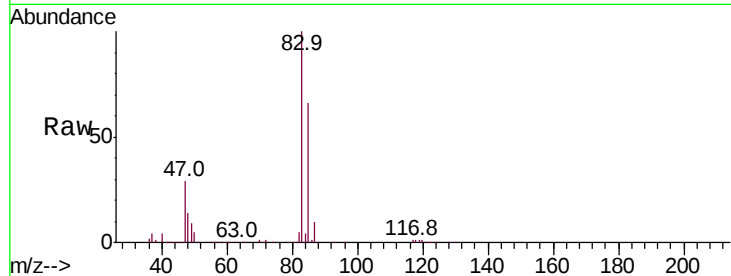
#29
Chloroform
Concen: 9.865 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1211366
Ion Ratio Lower Upper
83 100
85 65.4 52.0 78.0

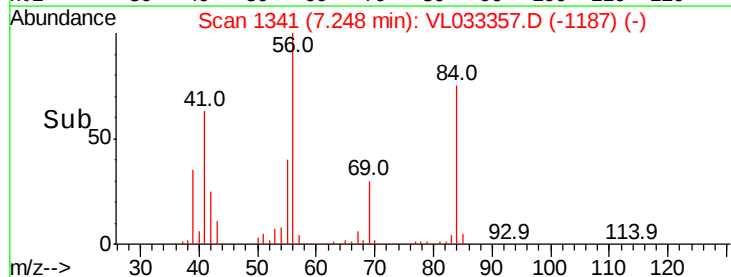
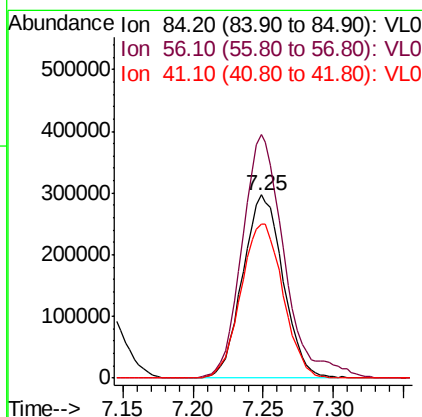
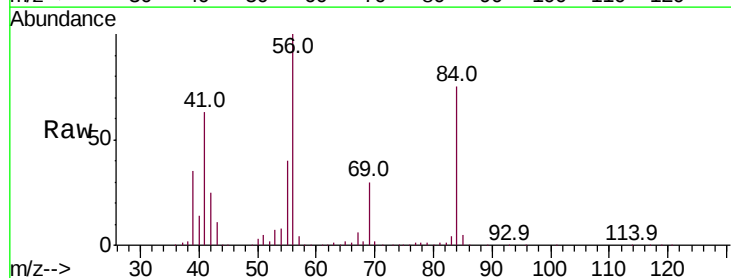
Manual Integrations
APPROVED

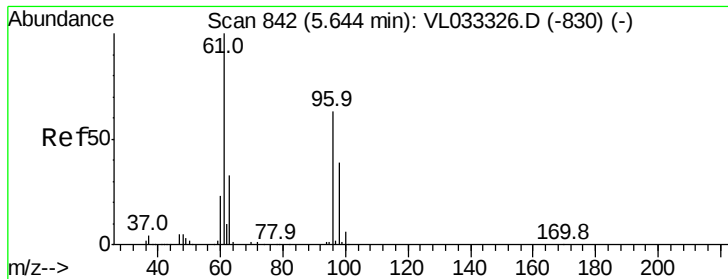
MMDadoda
3/19/2019 9:59:28 AM



#30
Cyclohexane
Concen: 9.893 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Tgt Ion: 84 Resp: 594806
Ion Ratio Lower Upper
84 100
56 139.1 111.3 166.9
41 88.2 69.6 104.4





#31

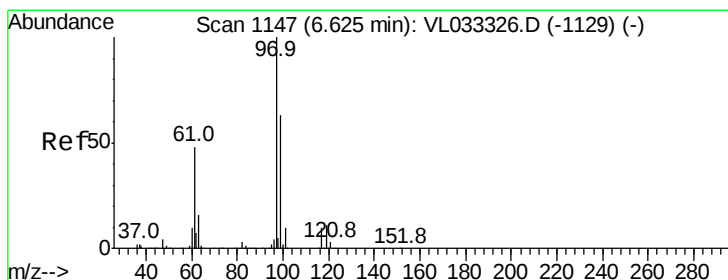
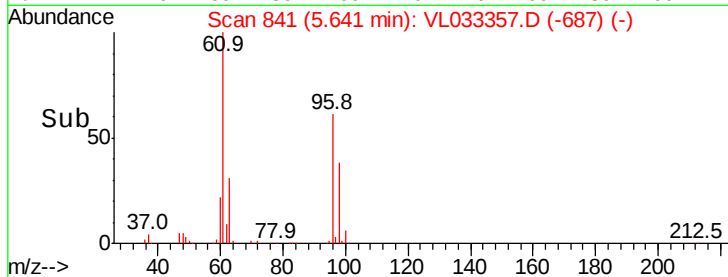
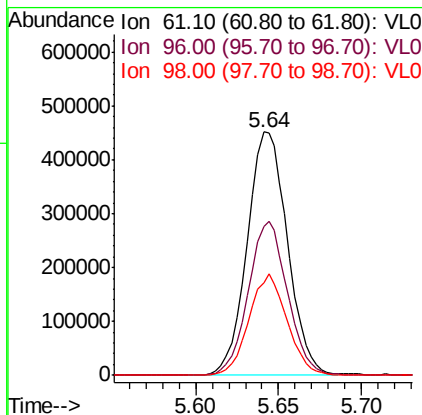
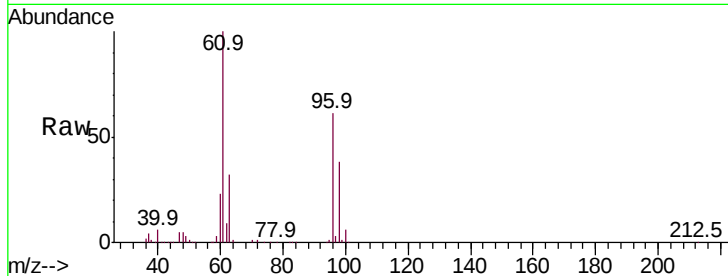
cis-1,2-Dichloroethene
Concen: 10.218 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.3	50.3	75.5
98	37.9	31.5	47.3

Manual Integrations
APPROVED

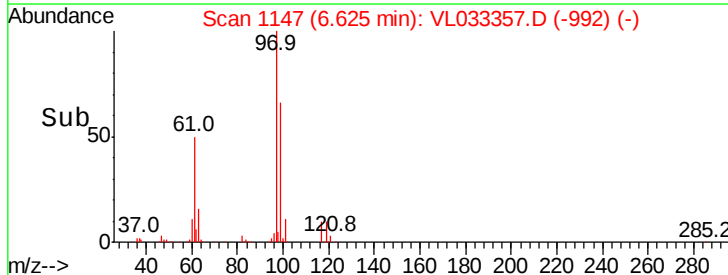
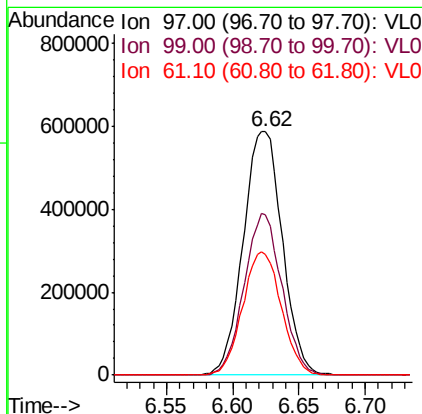
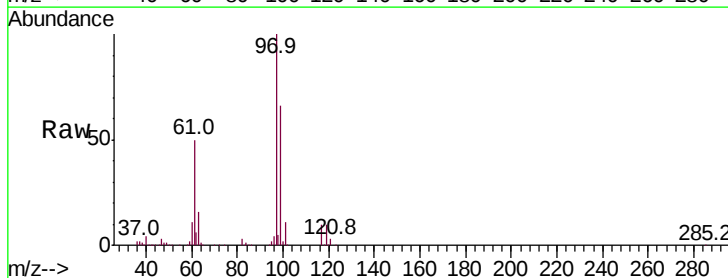
MMDadoda
3/19/2019 9:59:28 AM

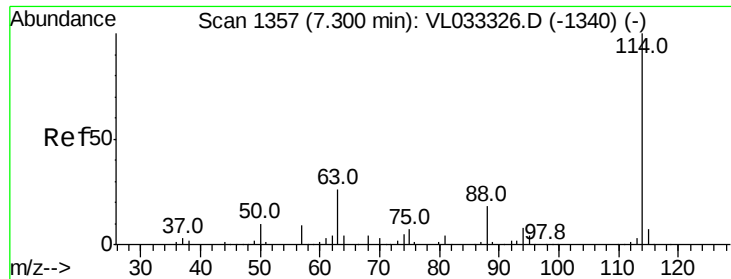


#32

1,1,1-Trichloroethane
Concen: 9.969 ppbv
RT: 6.62 min Scan# 1147
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.0	76.6
61	50.1	39.3	58.9





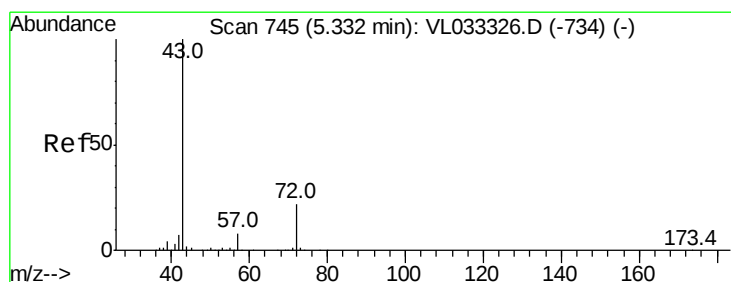
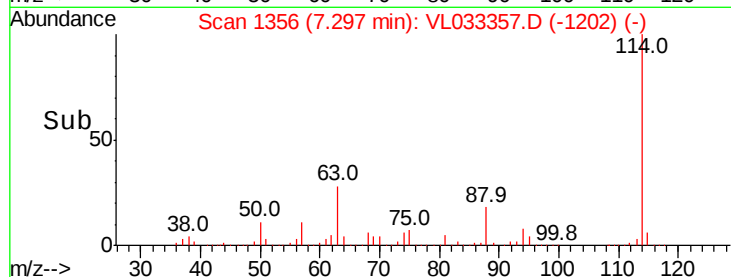
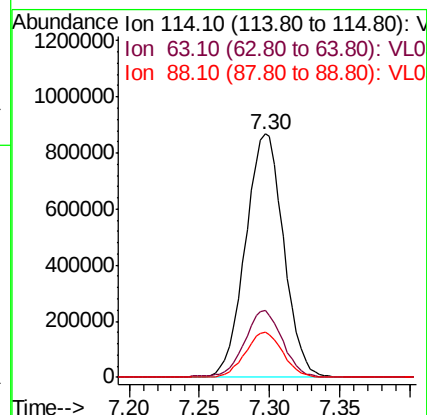
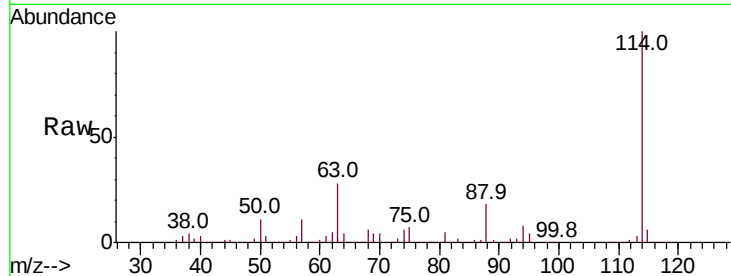
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.4	21.4	32.2
88	18.2	14.5	21.7

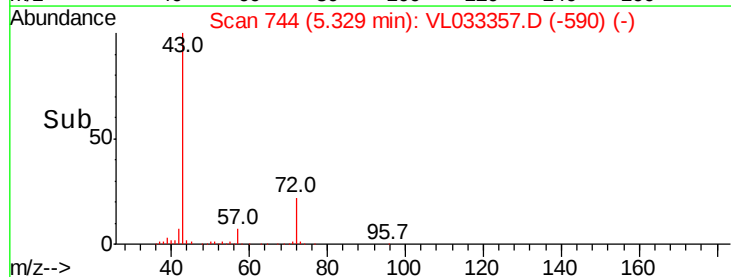
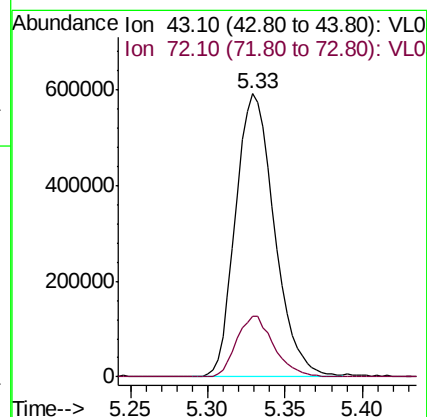
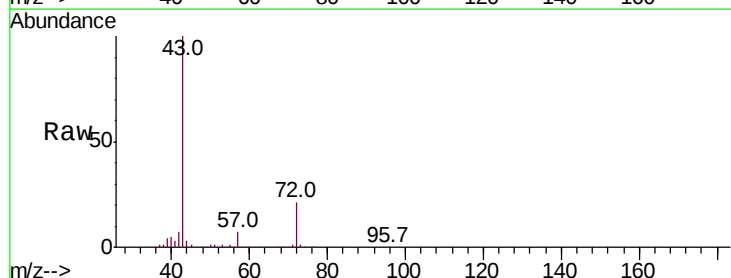
Manual Integrations
 APPROVED

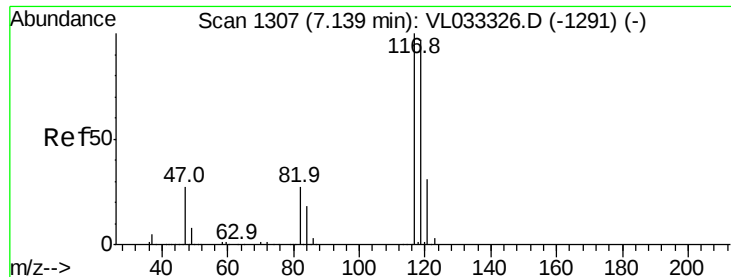
MMDadoda
 3/19/2019 9:59:28 AM



#34
 2-Butanone
 Concen: 9.507 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.9	17.7	26.5





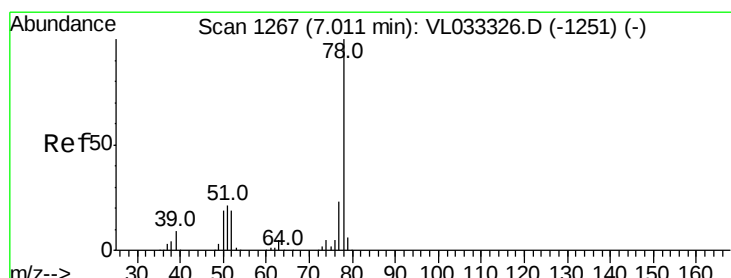
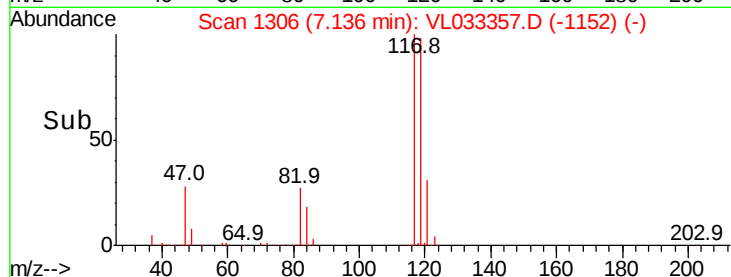
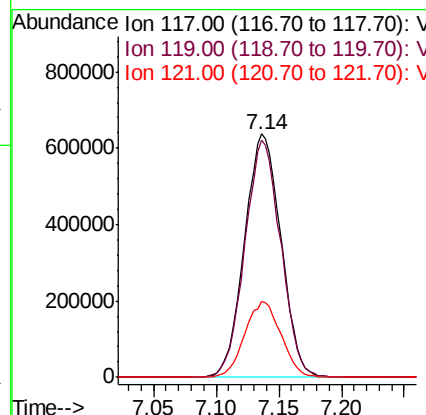
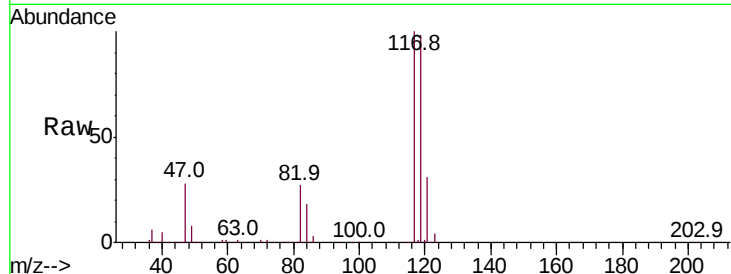
#35
Carbon Tetrachloride
Concen: 11.108 ppbv
RT: 7.14 min Scan# 1306
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 1289289
Ion Ratio Lower Upper
117 100
119 97.6 77.4 116.0
121 31.1 24.9 37.3

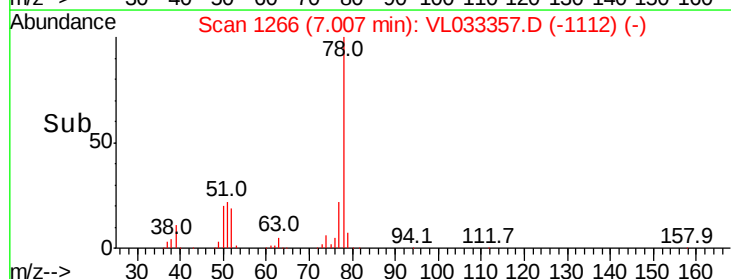
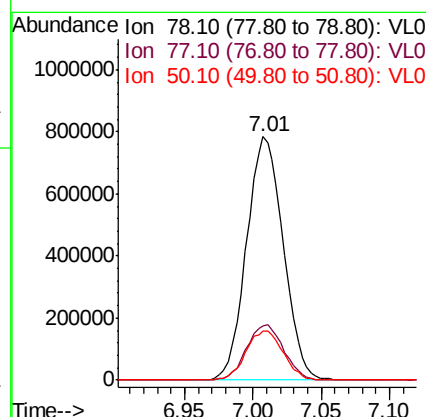
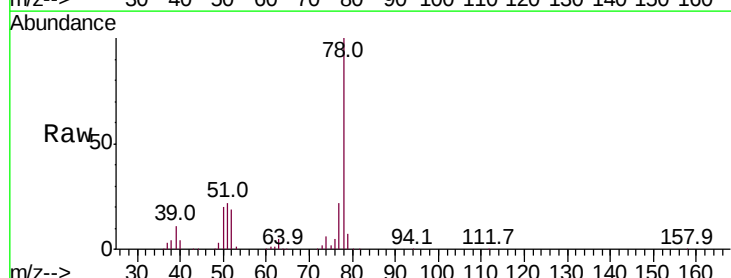
Manual Integrations
APPROVED

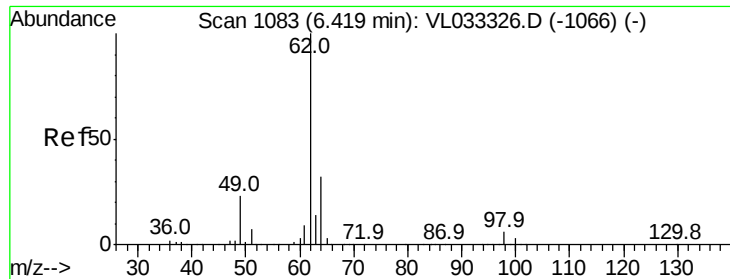
MMDadoda
3/19/2019 9:59:28 AM



#36
Benzene
Concen: 9.945 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Tgt Ion: 78 Resp: 1465315
Ion Ratio Lower Upper
78 100
77 22.2 18.1 27.1
50 19.9 15.2 22.8





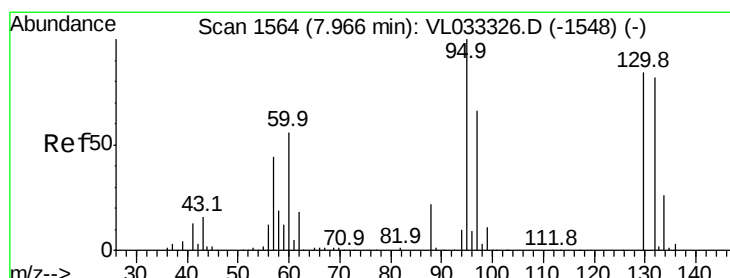
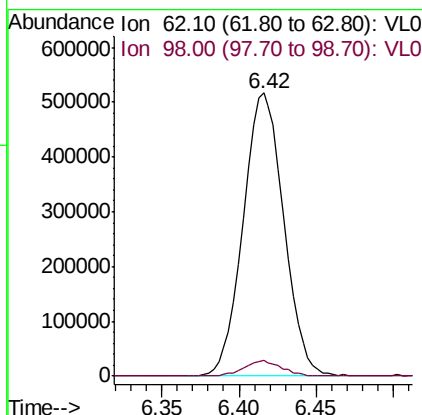
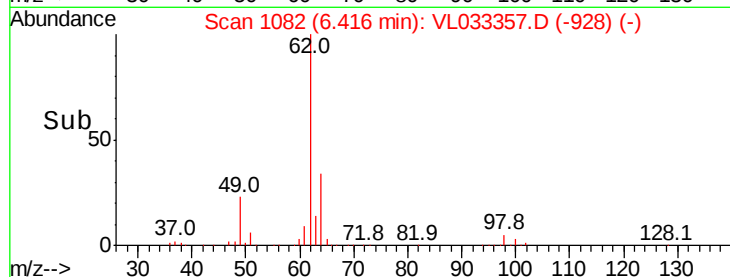
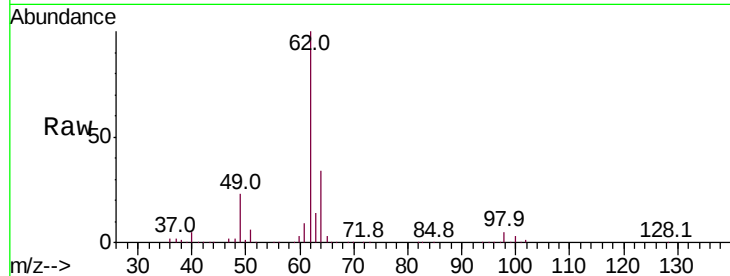
#37
 1,2-Dichloroethane
 Concen: 10.139 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 944624
 Ion Ratio Lower Upper
 62 100
 98 5.1 4.5 6.7

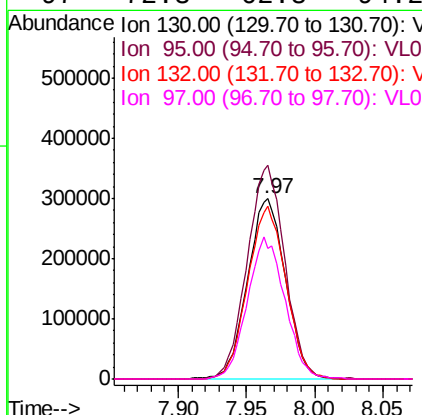
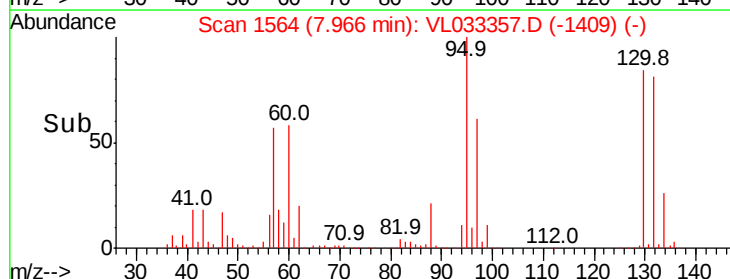
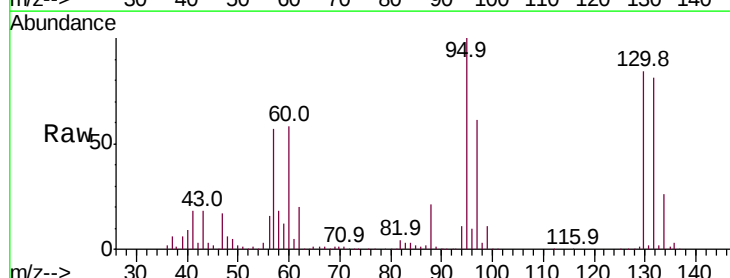
Manual Integrations
 APPROVED

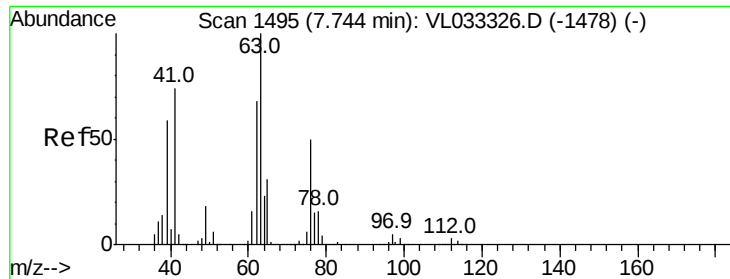
MMDadoda
 3/19/2019 9:59:28 AM



#38
 Trichloroethene
 Concen: 10.395 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Tgt Ion: 130 Resp: 579603
 Ion Ratio Lower Upper
 130 100
 95 118.5 95.2 142.8
 132 96.3 77.7 116.5
 97 72.3 62.8 94.2





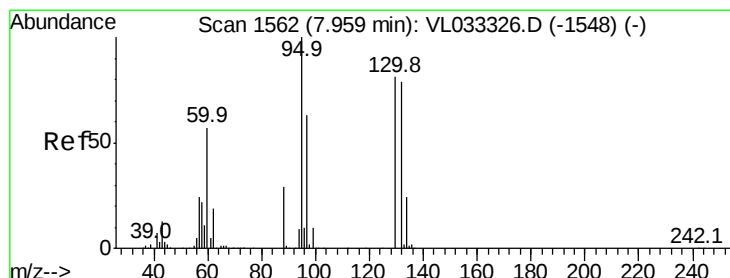
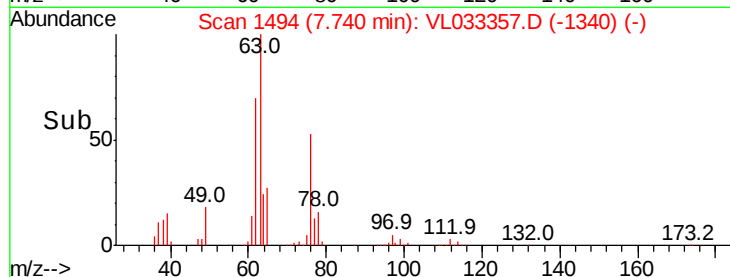
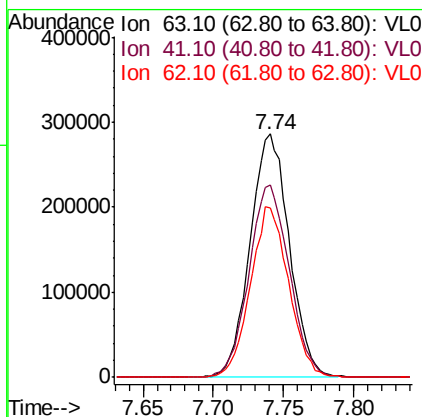
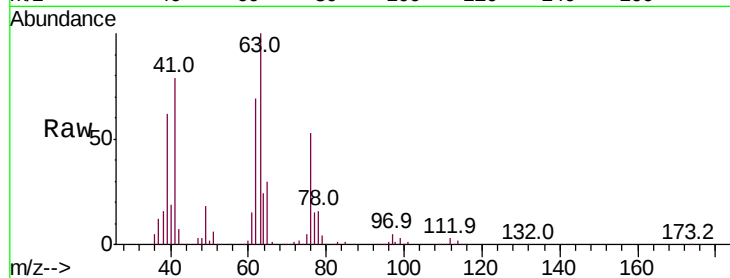
#39
 1,2-Dichloropropane
 Concen: 10.108 ppbv
 RT: 7.74 min Scan# 1494
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	79.0	59.5	89.3
62	69.5	54.7	82.1

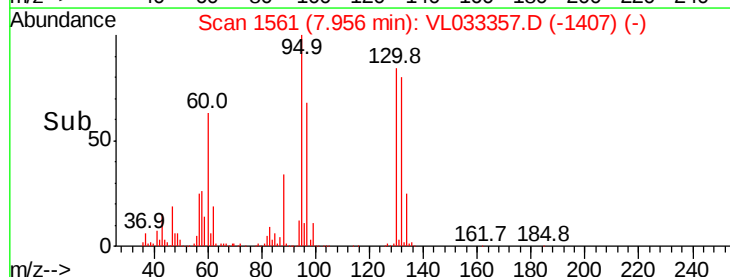
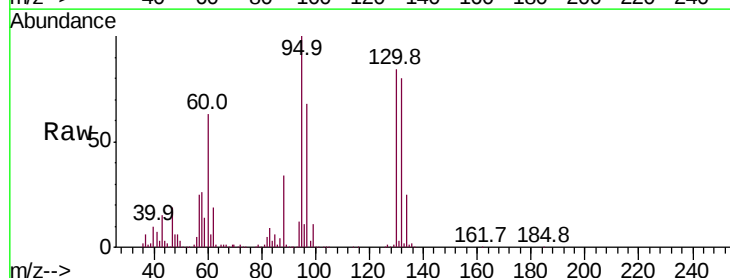
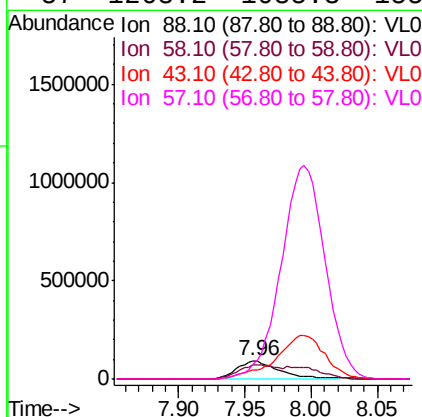
Manual Integrations
 APPROVED

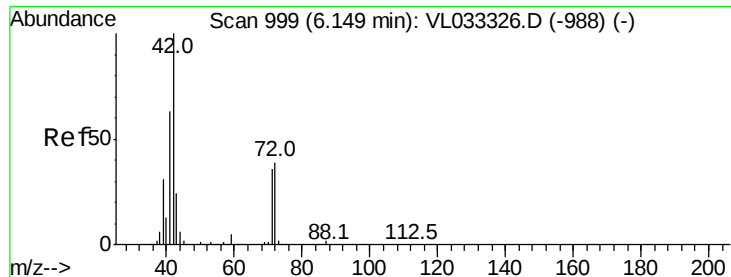
MMDadoda
 3/19/2019 9:59:28 AM



#40
 1,4-Dioxane
 Concen: 10.259 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Tgt Ion	Ratio	Lower	Upper
88	100		
58	135.0	107.9	161.9
43	287.3	230.8	346.2
57	1268.2	1035.3	1552.9





#41

Tetrahydrofuran

Concen: 10.350 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

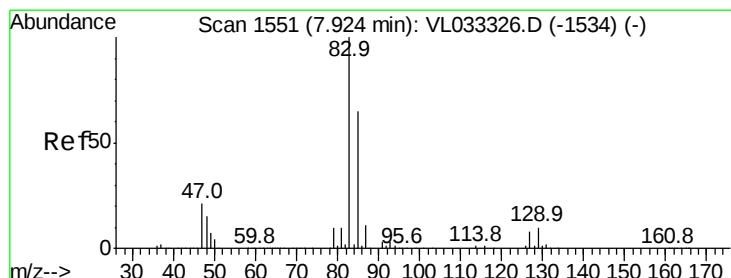
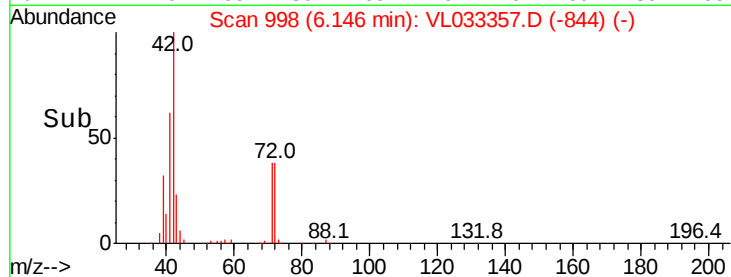
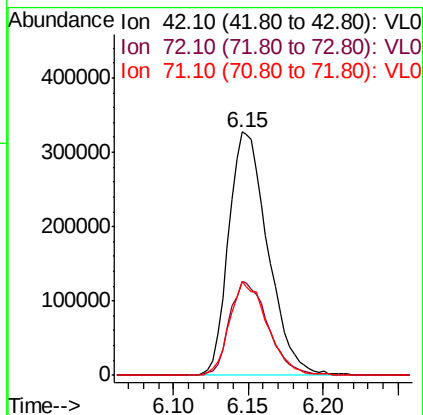
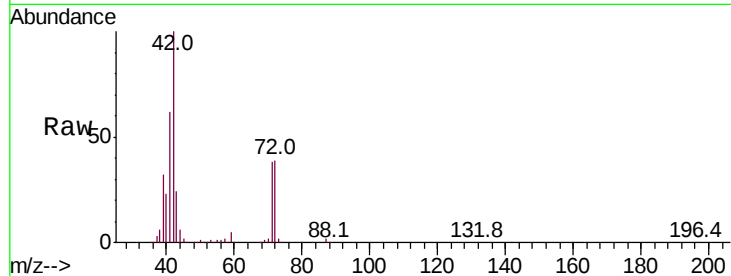
ClientSampleId :

VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.2	31.6	47.4
71	37.3	29.9	44.9

Manual Integrations
APPROVED

MMDadoda
3/19/2019 9:59:28 AM



#42

Bromodichloromethane

Concen: 10.779 ppbv

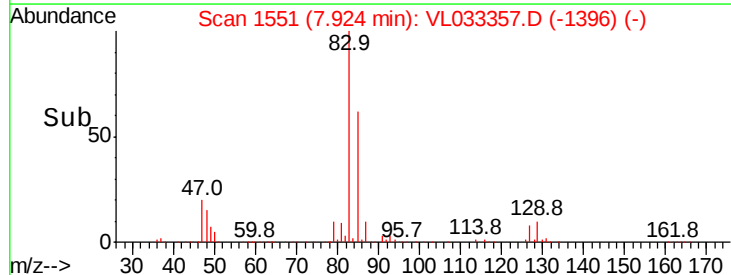
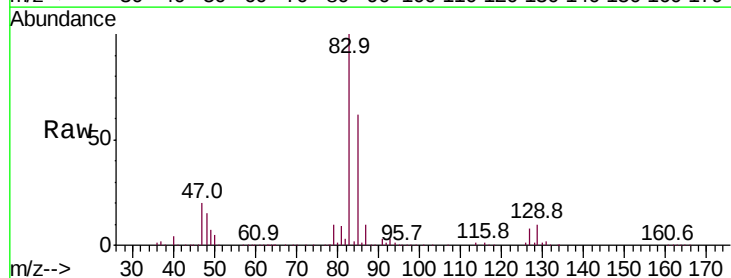
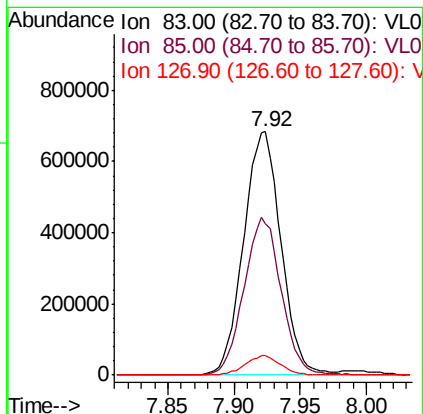
RT: 7.92 min Scan# 1551

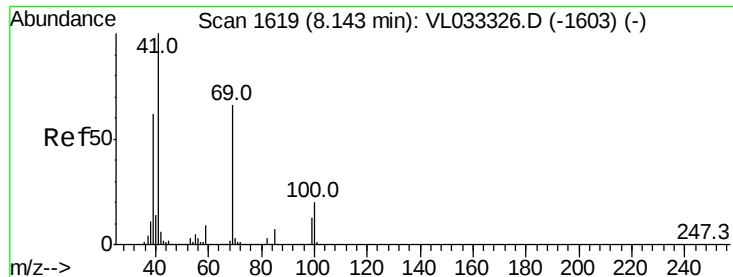
Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.8	77.6
127	8.2	6.2	9.2





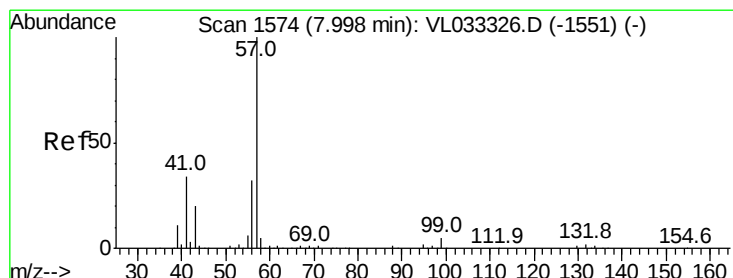
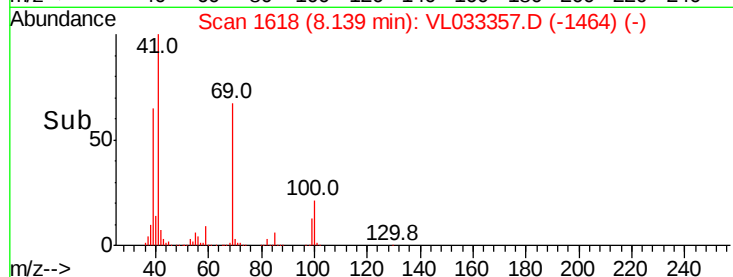
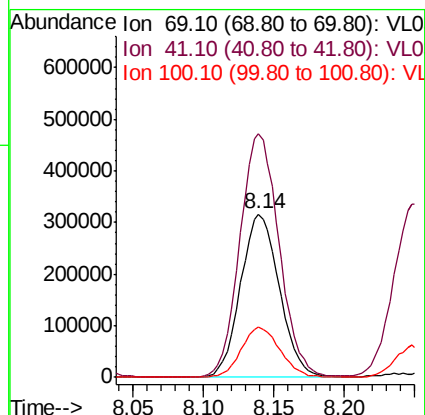
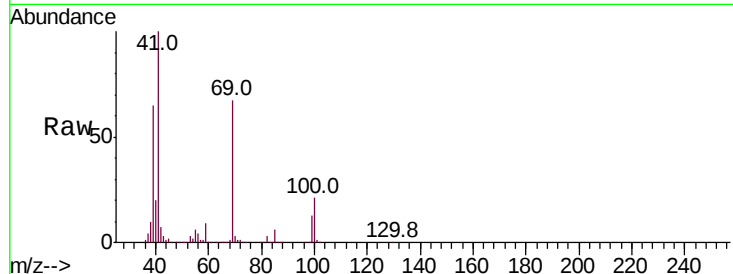
#43
Methvl Methacrylate
Concen: 10.655 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
69	100		
41	150.3	119.5	179.3
100	30.7	24.4	36.6

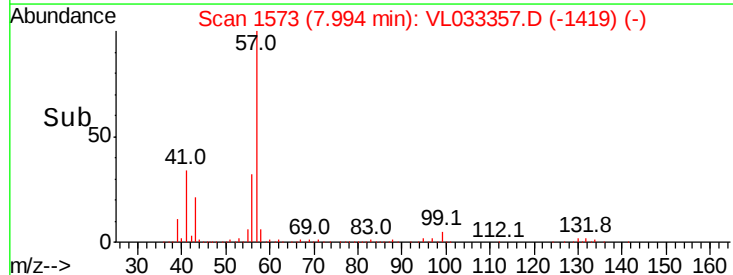
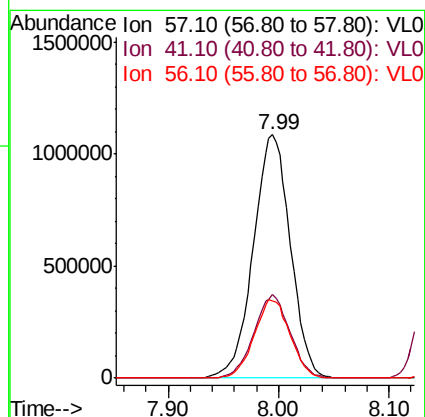
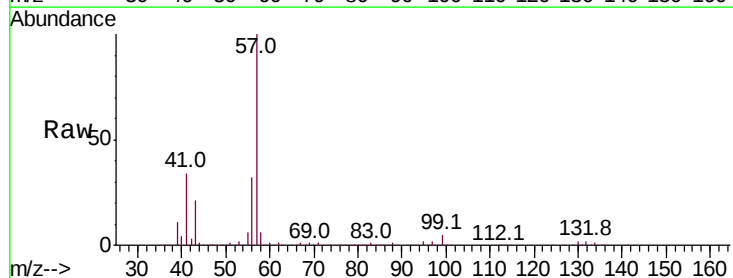
Manual Integrations
APPROVED

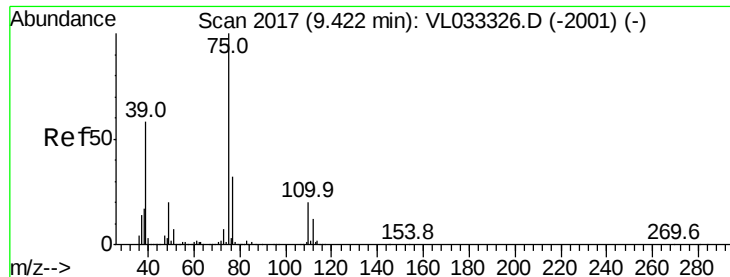
MMDadoda
3/19/2019 9:59:28 AM



#44
2,2,4-Trimethylpentane
Concen: 10.346 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.3	26.0	39.0
56	31.1	24.6	36.8





#45

t-1,3-Dichloropropene

Concen: 11.779 ppbv

RT: 9.42 min Scan# 2017

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 834287

Ion Ratio Lower Upper

75 100

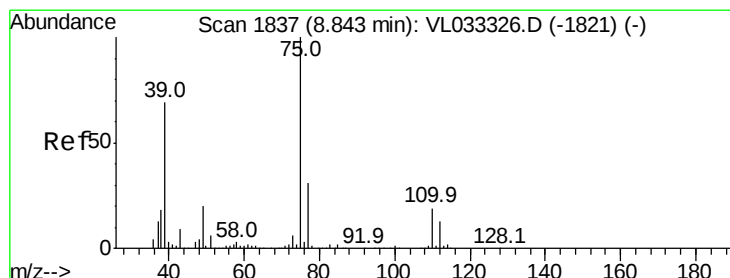
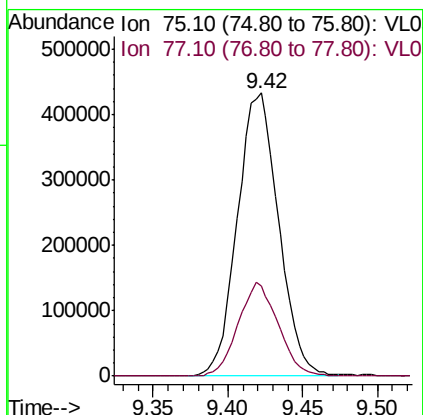
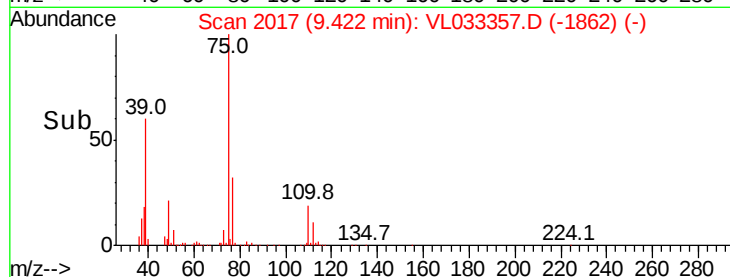
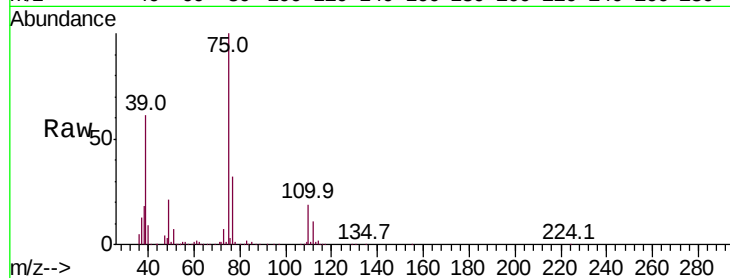
77 31.8 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

3/19/2019 9:59:28 AM



#46

cis-1,3-Dichloropropene

Concen: 11.461 ppbv

RT: 8.84 min Scan# 1836

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

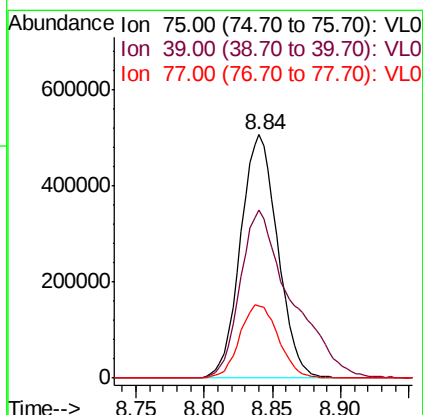
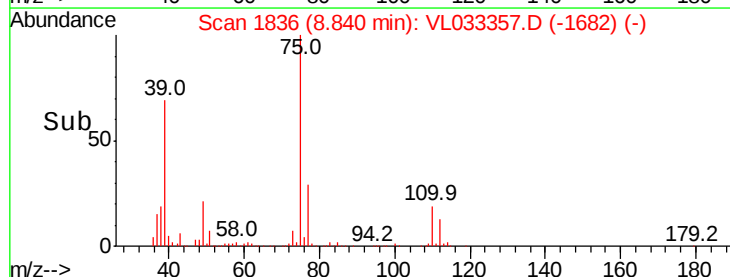
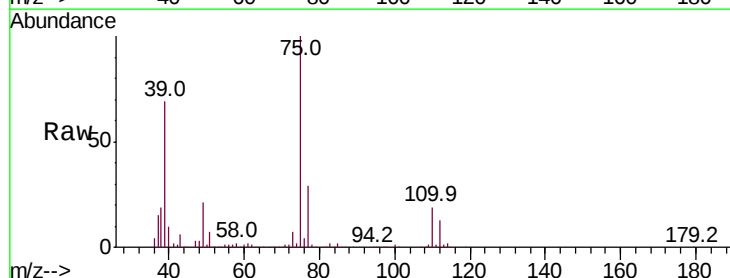
Tgt Ion: 75 Resp: 955876

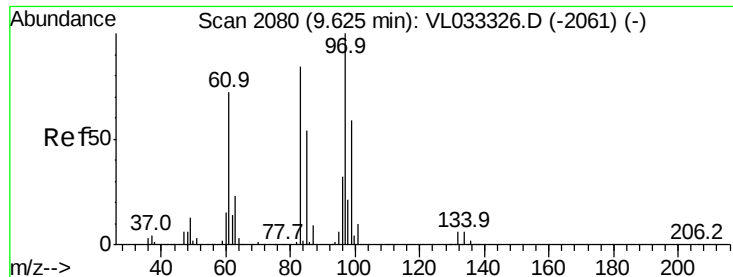
Ion Ratio Lower Upper

75 100

39 69.2 55.0 82.6

77 29.4 24.5 36.7





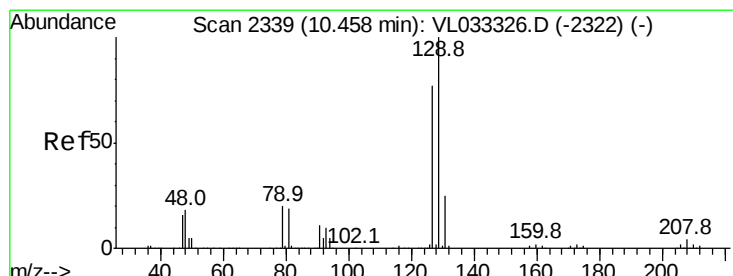
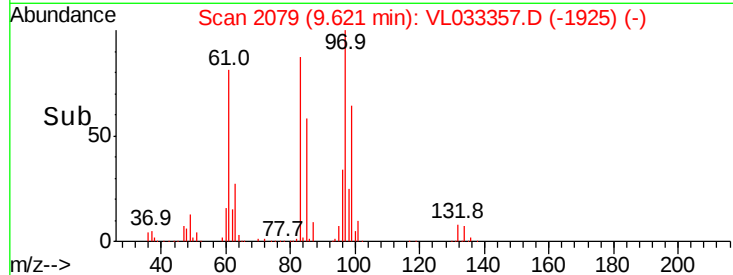
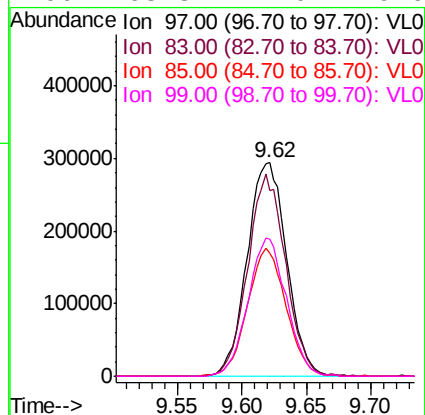
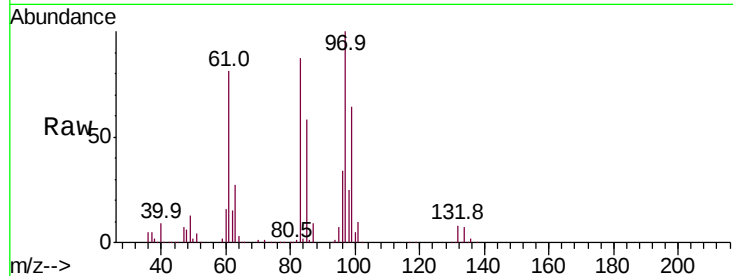
#47
 1,1,2-Trichloroethane
 Concen: 10.324 ppbv
 RT: 9.62 min Scan# 2079
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.0	67.4	101.0
85	57.4	43.0	64.4
99	63.8	47.0	70.6

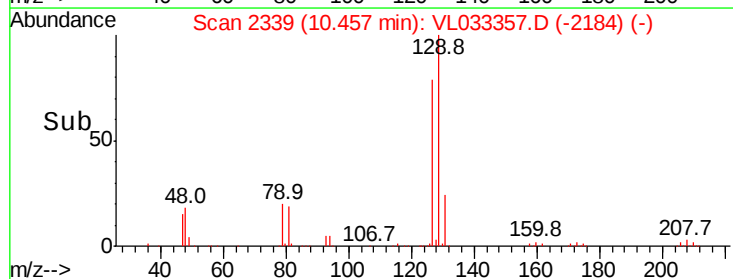
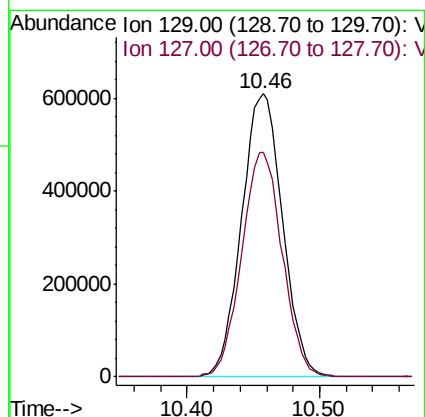
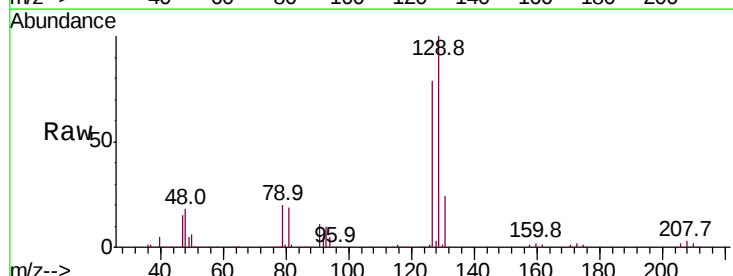
Manual Integrations
 APPROVED

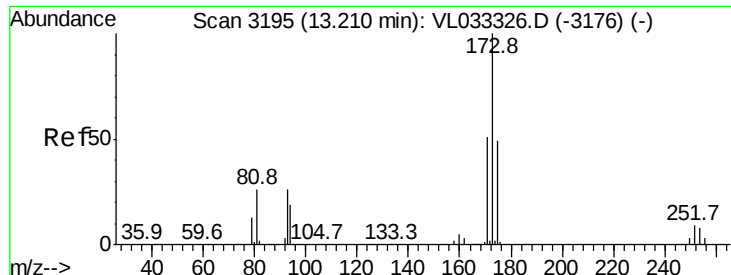
MMDadoda
 3/19/2019 9:59:28 AM



#48
 Dibromochloromethane
 Concen: 12.818 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.9	116.6





#49

Bromoform

Concen: 12.239 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1187066

Ion Ratio Lower Upper

173 100

175 48.8 39.0 58.6

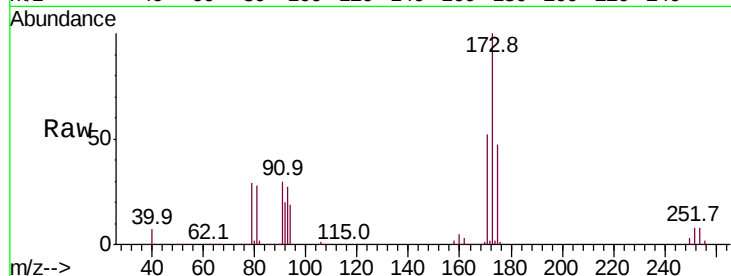
171 51.6 41.7 62.5

Manual Integrations

APPROVED

MMDadoda

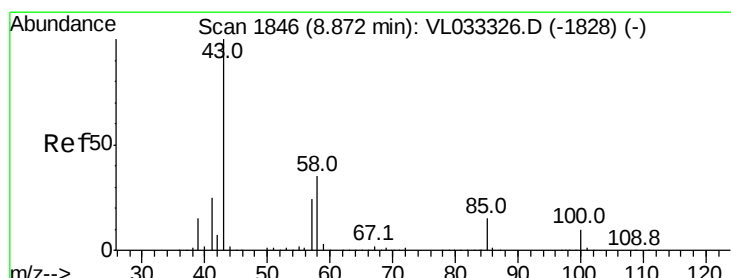
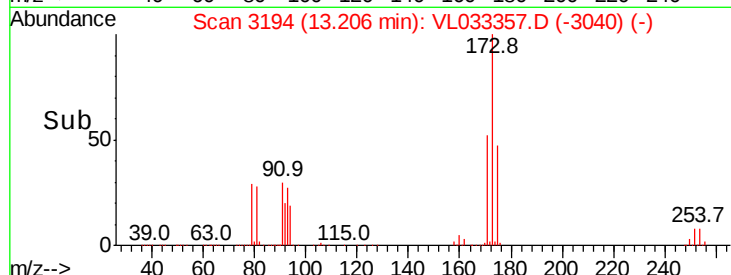
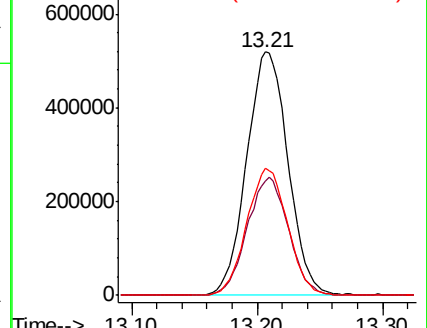
3/19/2019 9:59:28 AM



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: 10.541 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. -0.00 min

Lab File: VL033357.D

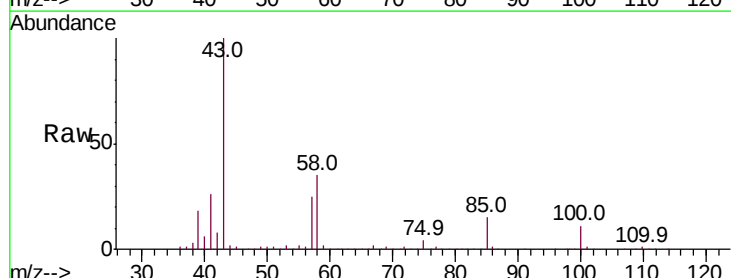
Acq: 16 Mar 2019 8:22

Tgt Ion: 43 Resp: 1609955

Ion Ratio Lower Upper

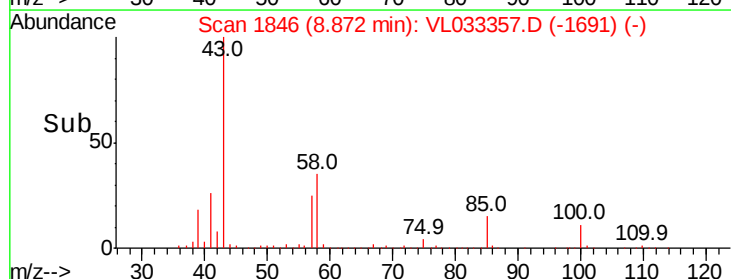
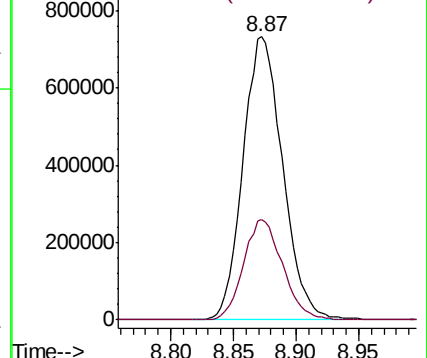
43 100

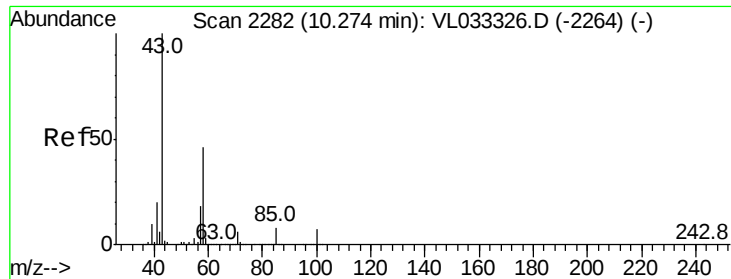
58 35.1 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 12.196 ppbv

RT: 10.27 min Scan# 2282

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1437090

Ion Ratio Lower Upper

43 100

58 47.0 38.0 57.0

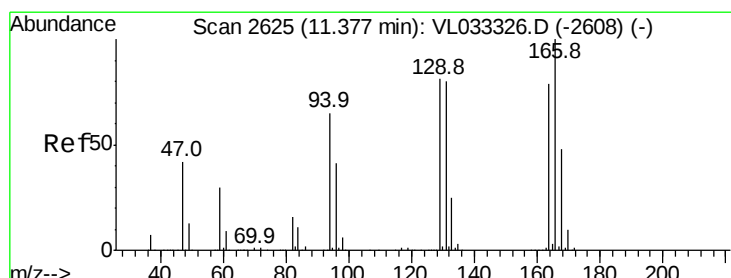
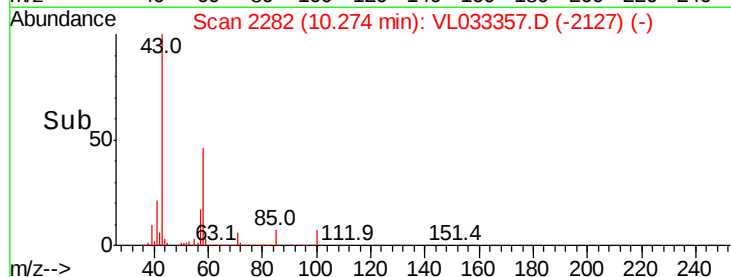
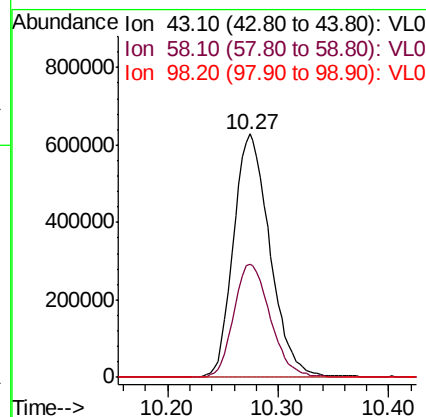
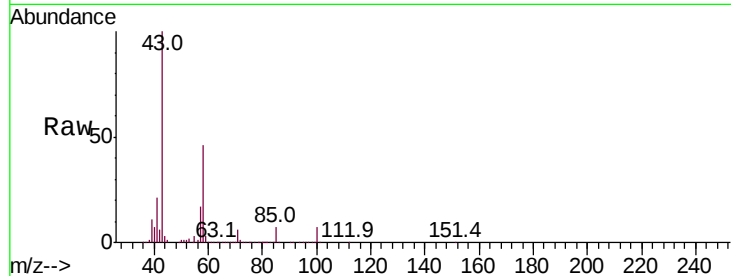
98 0.3 0.1 0.1#

Manual Integrations

APPROVED

MMDadoda

3/19/2019 9:59:28 AM



#52

Tetrachloroethene

Concen: 10.497 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Tgt Ion: 164 Resp: 644326

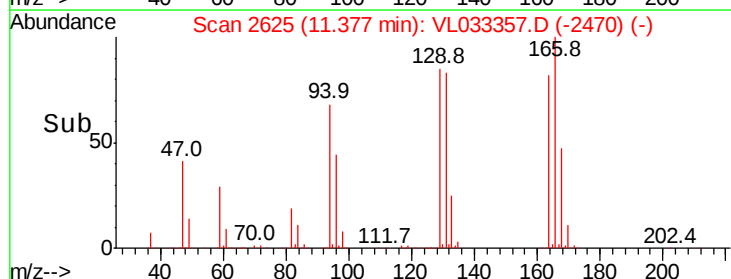
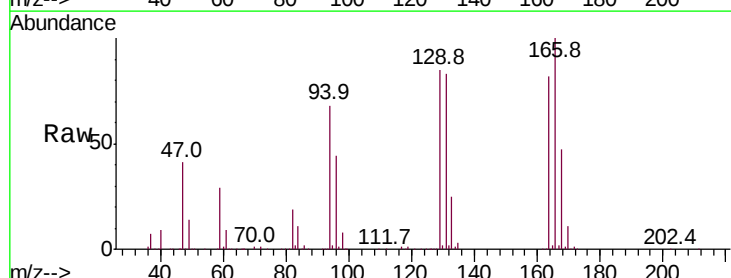
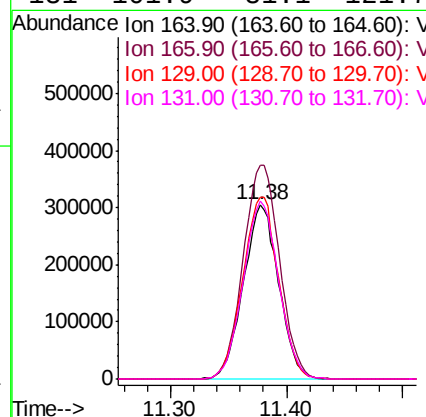
Ion Ratio Lower Upper

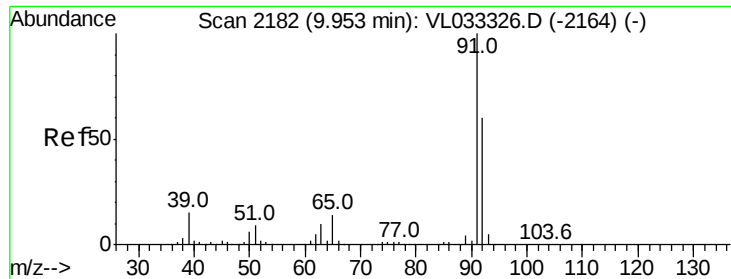
164 100

166 122.5 101.5 152.3

129 104.3 82.2 123.2

131 101.9 81.1 121.7





#53

Toluene

Concen: 11.920 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 1995747

Ion Ratio Lower Upper

91 100

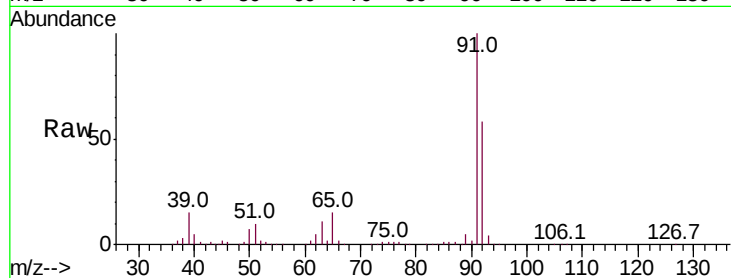
92 58.7 47.4 71.0

Manual Integrations

APPROVED

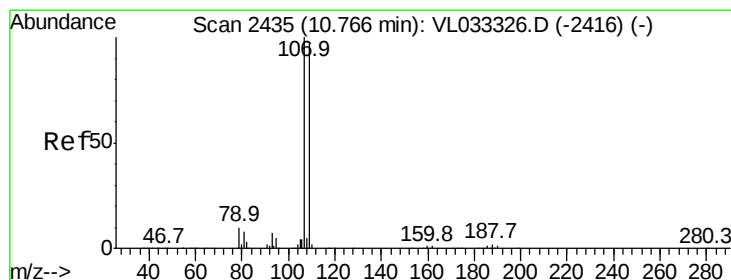
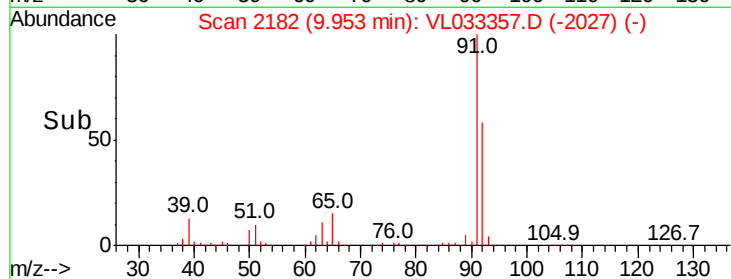
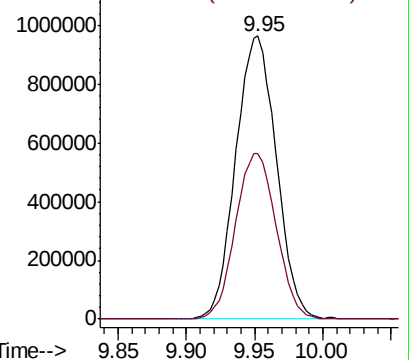
MMDadoda

3/19/2019 9:59:28 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 11.230 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VL033357.D

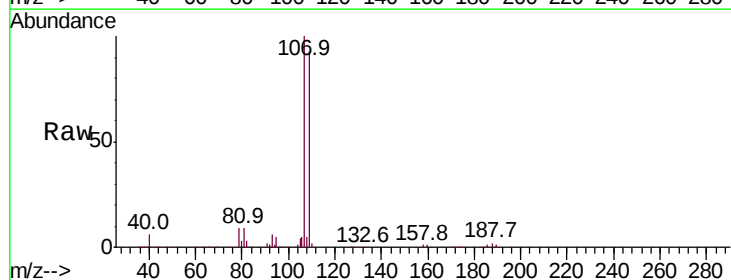
Acq: 16 Mar 2019 8:22

Tgt Ion:107 Resp: 1157424

Ion Ratio Lower Upper

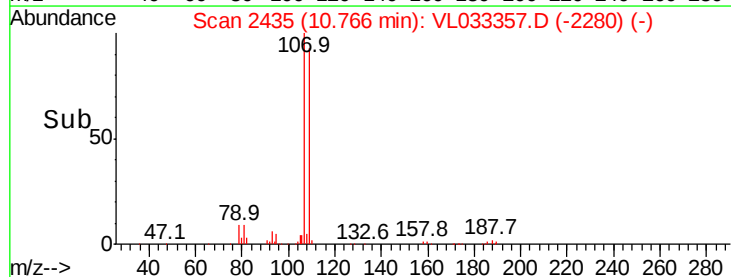
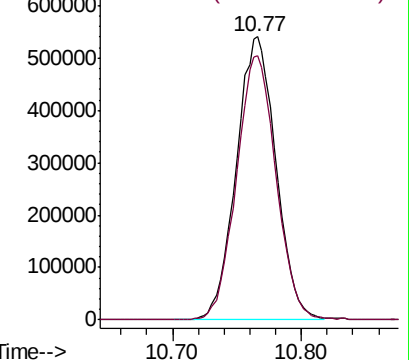
107 100

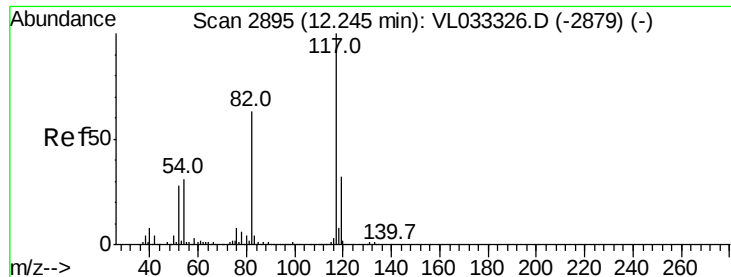
109 93.5 77.2 115.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





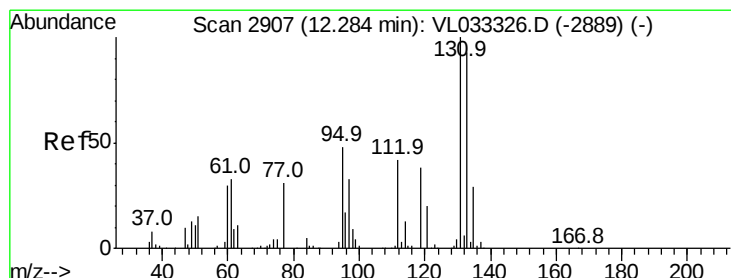
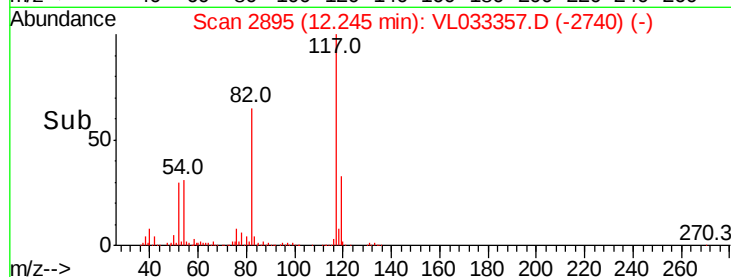
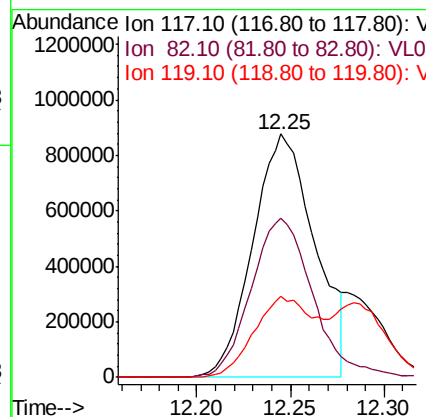
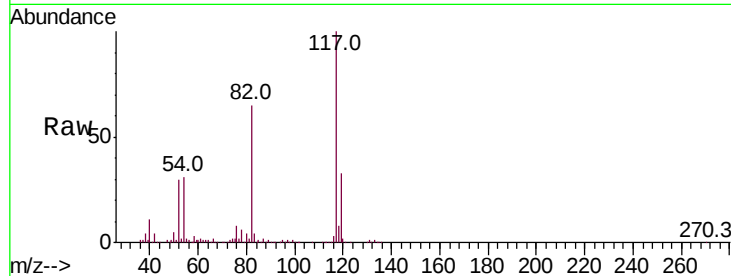
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 2021864
Ion Ratio Lower Upper
117 100
82 65.2 53.4 80.2
119 34.0 27.3 40.9

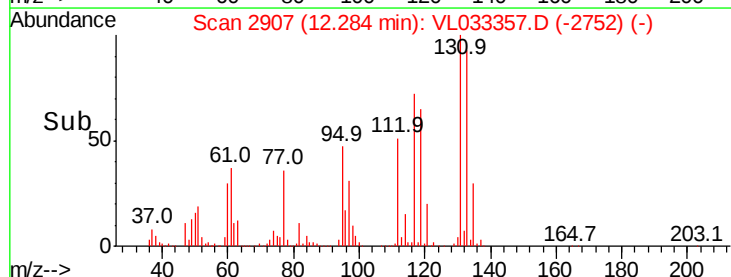
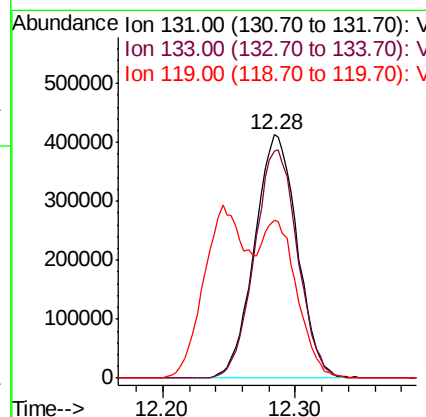
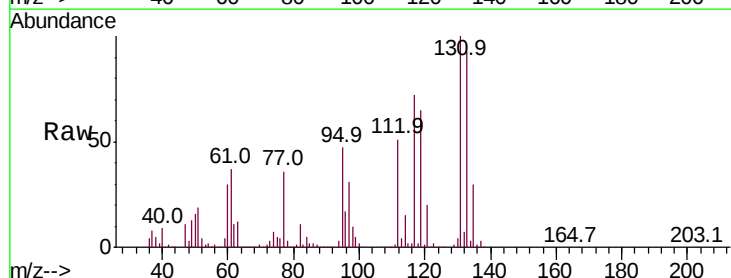
Manual Integrations
APPROVED

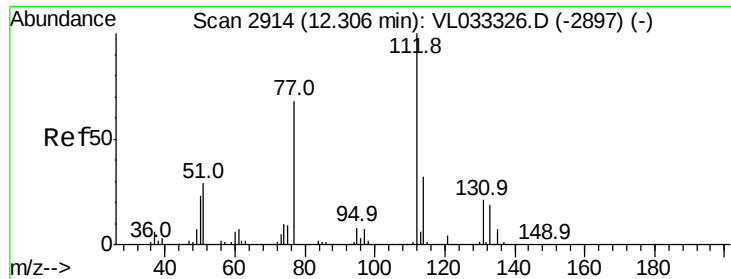
MMDadoda
3/19/2019 9:59:28 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 10.268 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Tgt Ion:131 Resp: 928704
Ion Ratio Lower Upper
131 100
133 94.6 76.7 115.1
119 57.9 40.3 60.5





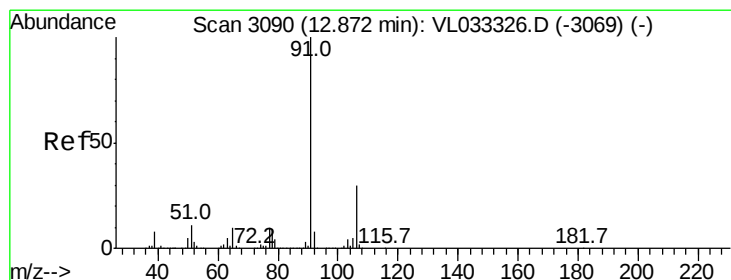
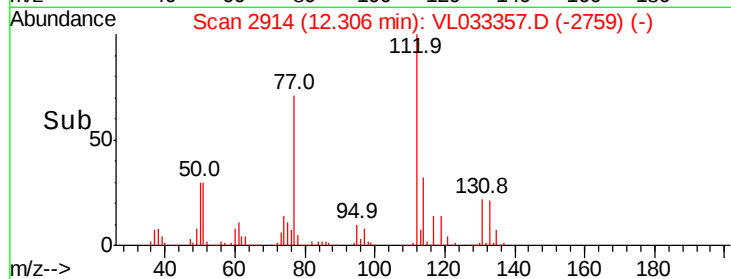
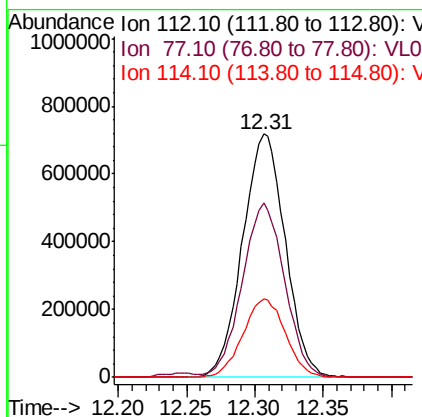
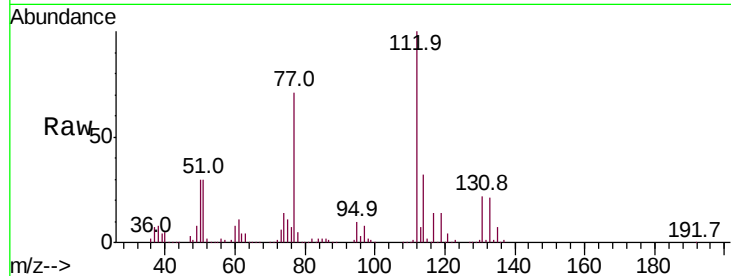
#57
Chlorobenzene
Concen: 9.719 ppbv
RT: 12.31 min Scan# 2914
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:	112	Resp:	1556257
Ion	Ratio	Lower	Upper
112	100		
77	71.5	55.8	83.6
114	32.1	28.6	35.0

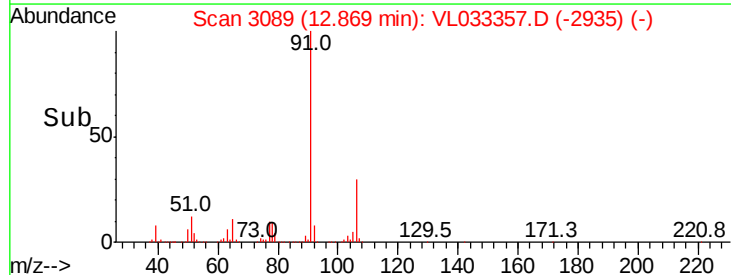
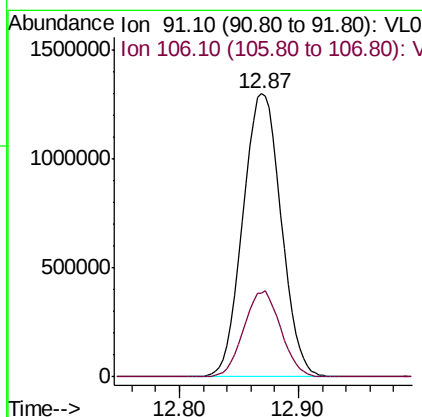
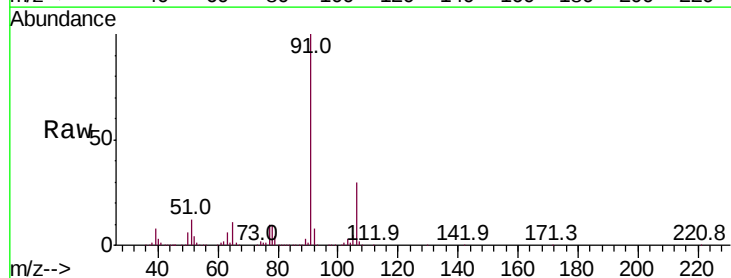
Manual Integrations
APPROVED

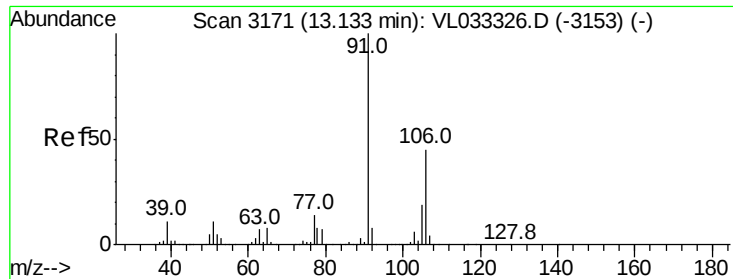
MMDadoda
3/19/2019 9:59:28 AM



#58
Ethyl Benzene
Concen: 10.155 ppbv
RT: 12.87 min Scan# 3089
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Tgt Ion:	91	Resp:	2904558
Ion	Ratio	Lower	Upper
91	100		
106	29.6	24.2	36.2





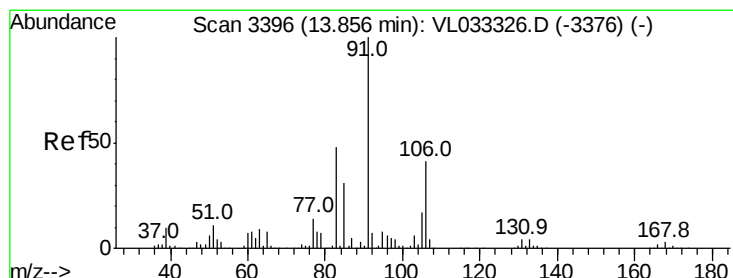
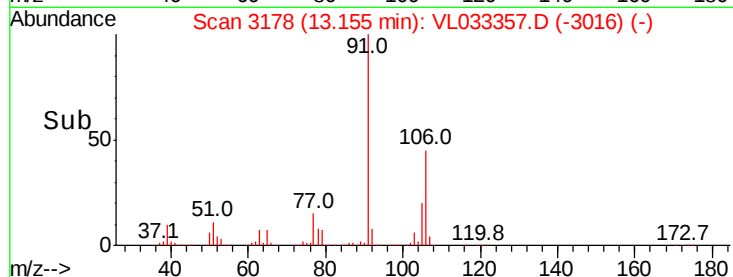
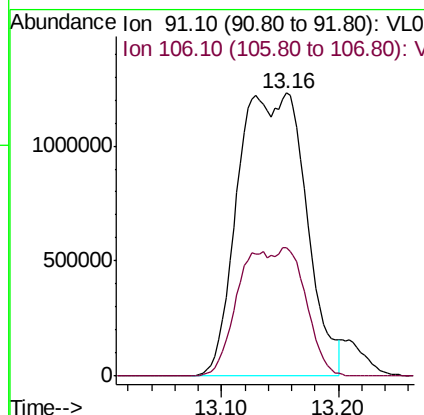
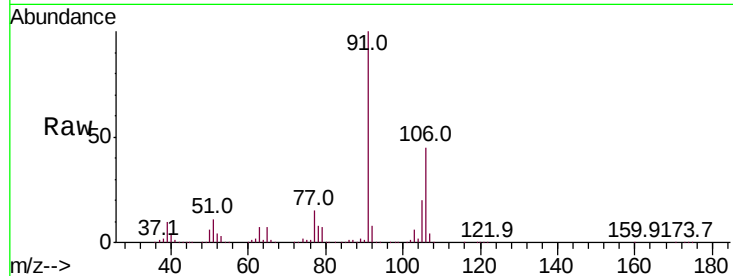
#59
m/p-Xylene
Concen: 20.270 ppbv m
RT: 13.16 min Scan# 3178
Delta R.T. 0.02 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4982441
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

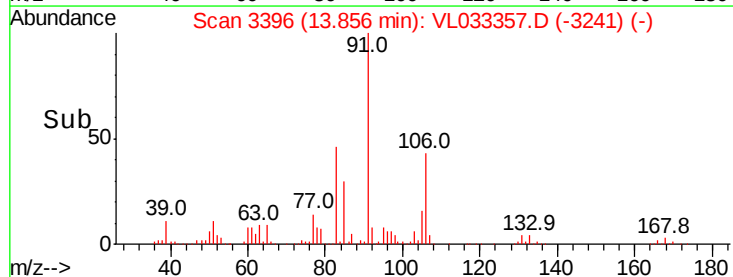
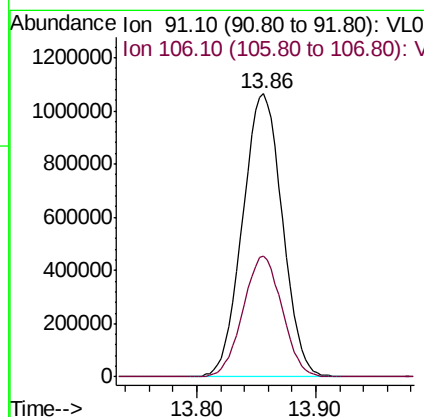
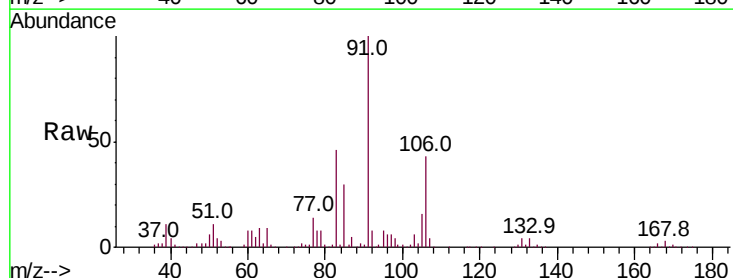
Manual Integrations
APPROVED

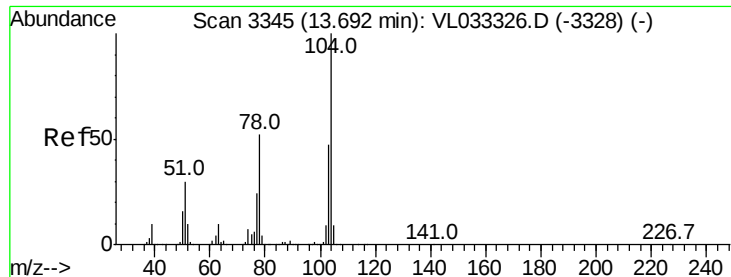
MMDadoda
3/19/2019 9:59:28 AM



#60
o-Xylene
Concen: 10.263 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Tgt Ion: 91 Resp: 2461098
Ion Ratio Lower Upper
91 100
106 42.0 21.3 63.9





#61

Stvrene

Concen: 10.741 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 1803342

Ion Ratio Lower Upper

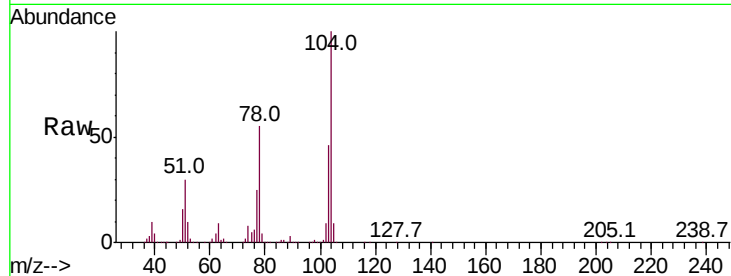
104 100

78 54.6 42.7 64.1

103 46.9 38.0 57.0

Manual Integrations
APPROVED

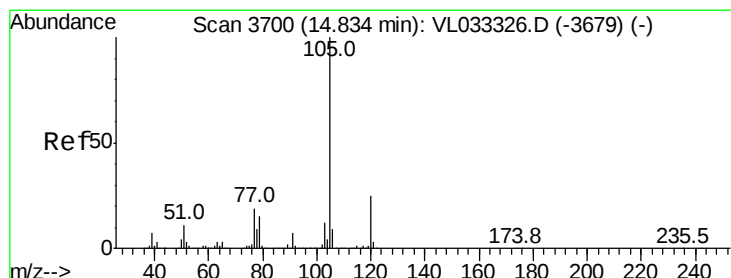
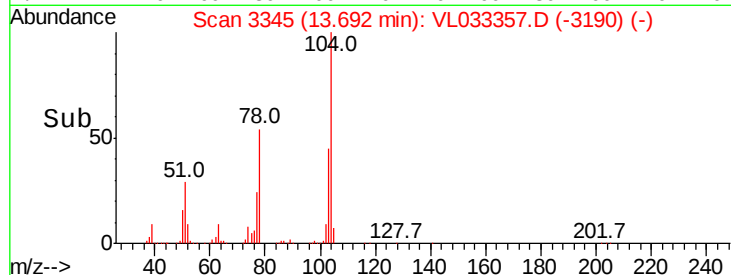
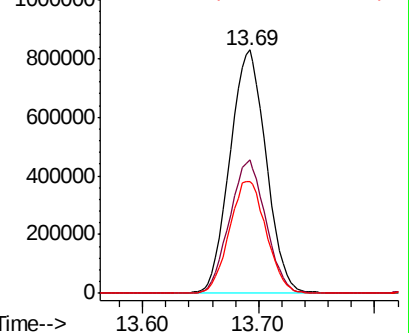
MMDadoda
3/19/2019 9:59:28 AM



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: 10.244 ppbv

RT: 14.83 min Scan# 3699

Delta R.T. -0.00 min

Lab File: VL033357.D

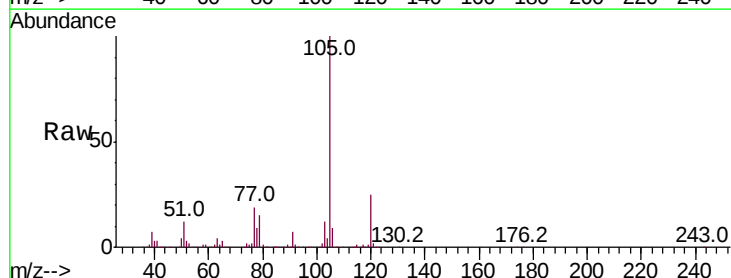
Acq: 16 Mar 2019 8:22

Tgt Ion:105 Resp: 3415169

Ion Ratio Lower Upper

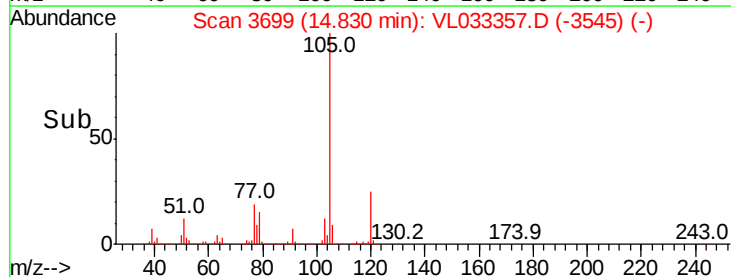
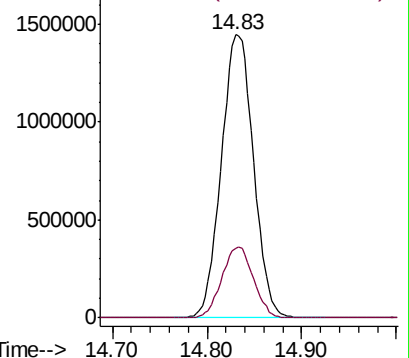
105 100

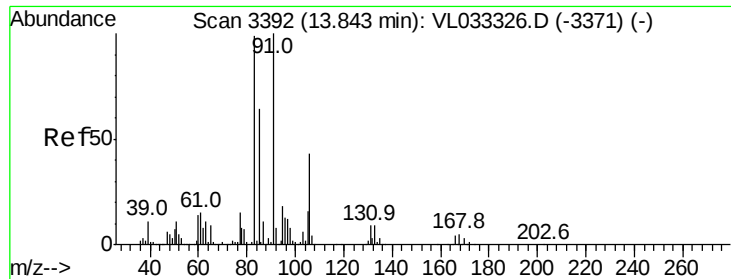
120 24.6 19.9 29.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





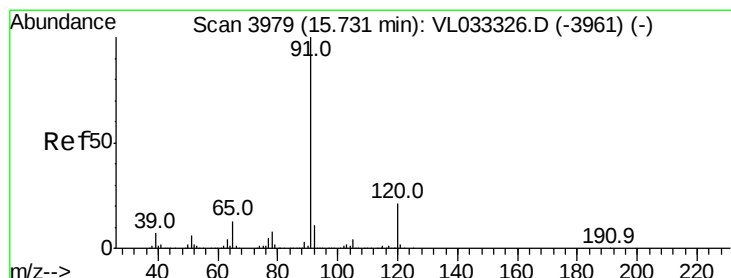
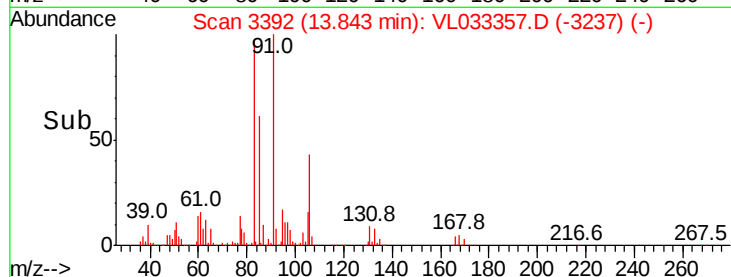
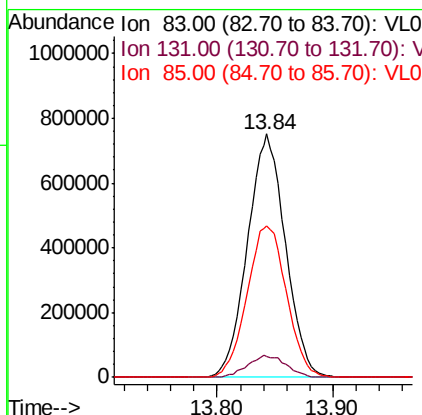
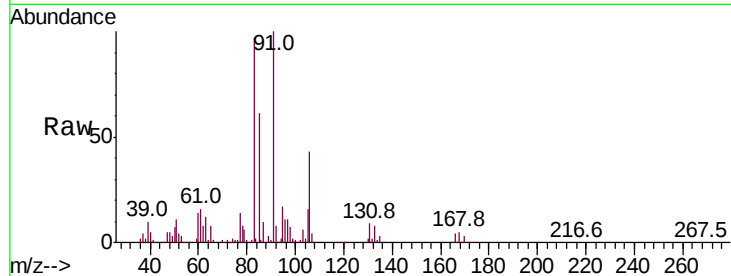
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.852 ppbv
 RT: 13.84 min Scan# 3392
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	1707833
Ion Ratio	100	Lower	Upper
83	100		
131	9.1	4.7	14.0
85	64.8	32.5	97.4

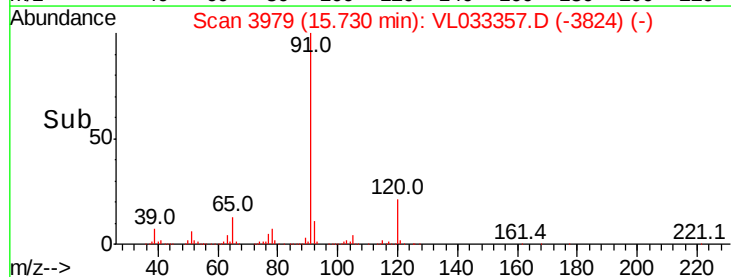
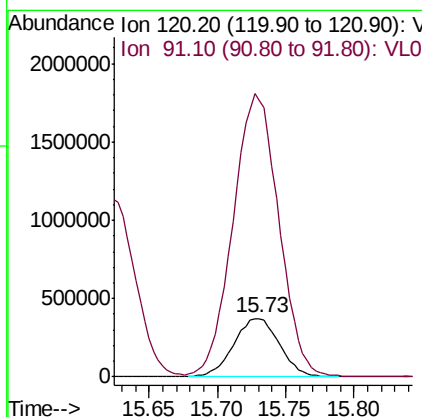
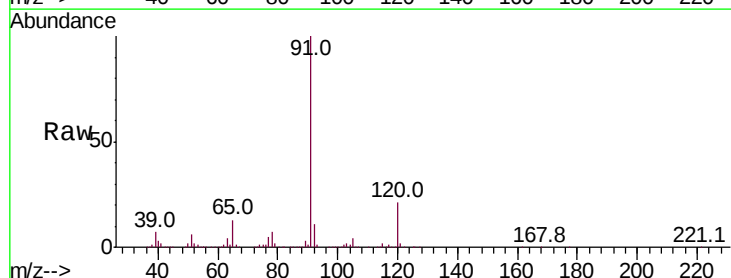
Manual Integrations
 APPROVED

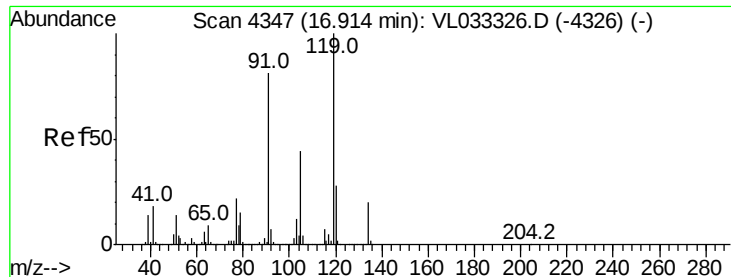
MMDadoda
 3/19/2019 9:59:28 AM



#64
 n-propylbenzene
 Concen: 10.343 ppbv
 RT: 15.73 min Scan# 3979
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Tgt Ion	120	Resp	872550
Ion Ratio	100	Lower	Upper
120	100		
91	485.0	389.8	584.6





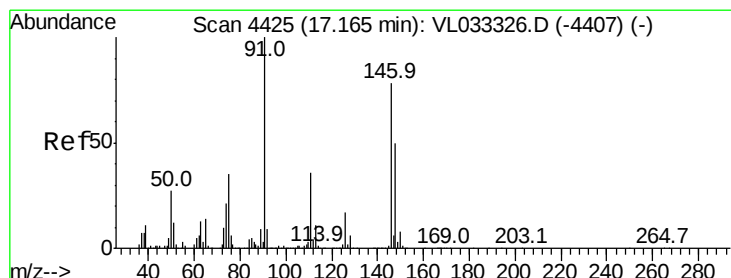
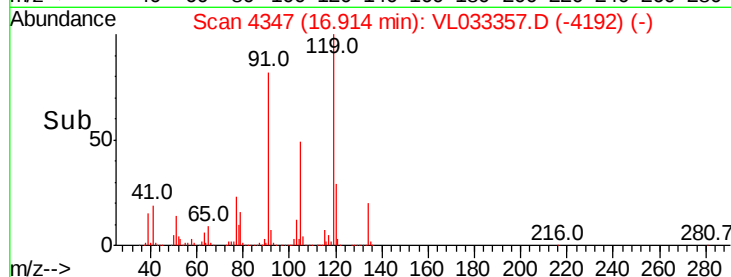
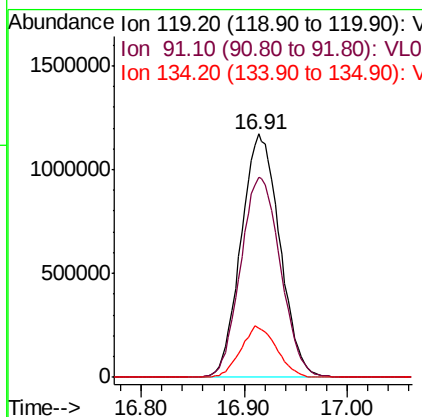
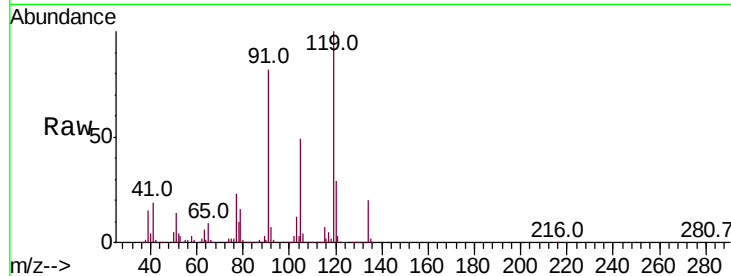
#65
tert-Butylbenzene
Concen: 10.161 ppbv
RT: 16.91 min Scan# 4347
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	84.8	67.2	100.8
134	19.5	15.4	23.2

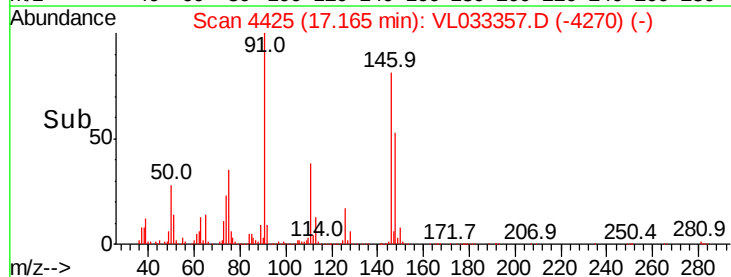
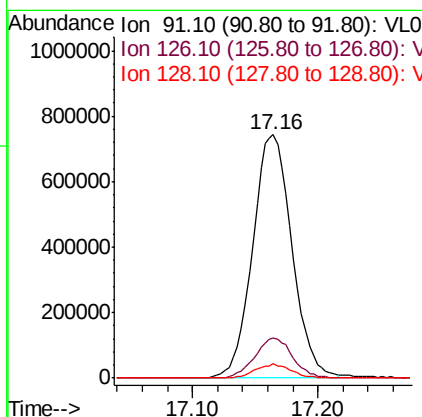
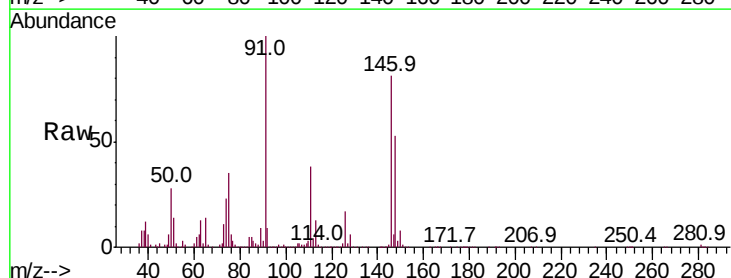
Manual Integrations
APPROVED

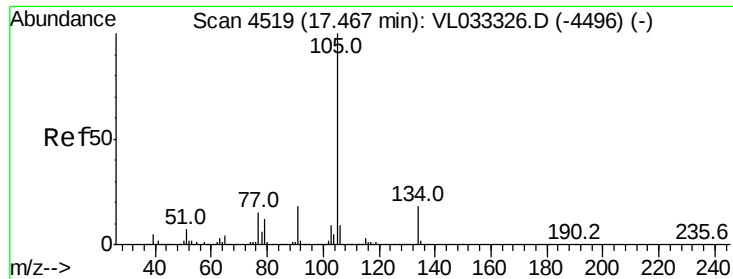
MMDadoda
3/19/2019 9:59:28 AM



#66
Benzyl Chloride
Concen: 13.022 ppbv
RT: 17.16 min Scan# 4425
Delta R.T. -0.00 min
Lab File: VL033357.D
Acq: 16 Mar 2019 8:22

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.0	13.2	19.8
128	5.3	4.2	6.4





#67

sec-Butylbenzene

Concen: 10.254 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4360911

Ion Ratio Lower Upper

105 100

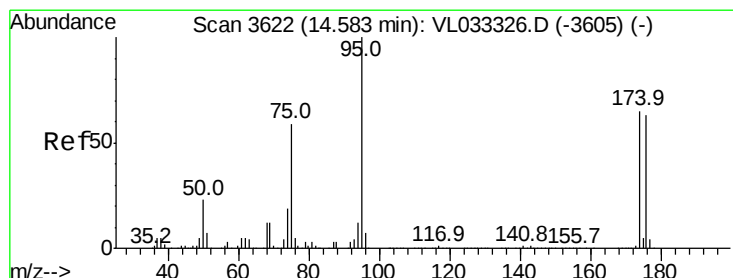
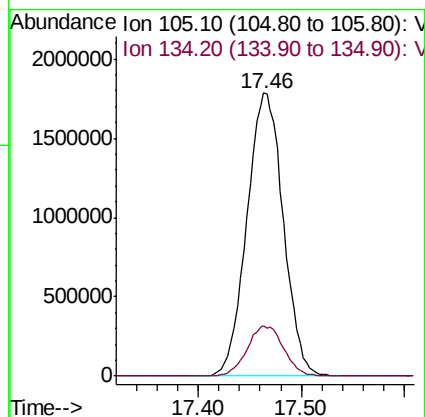
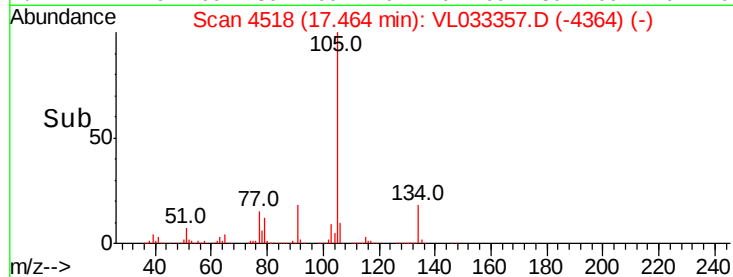
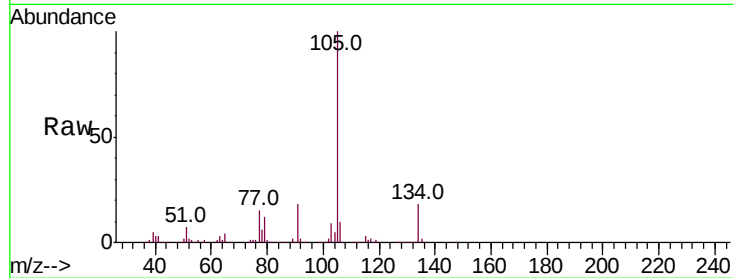
134 17.8 14.2 21.4

Manual Integrations

APPROVED

MMDadoda

3/19/2019 9:59:28 AM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.979 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

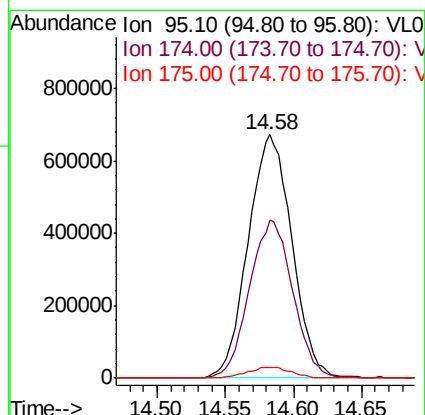
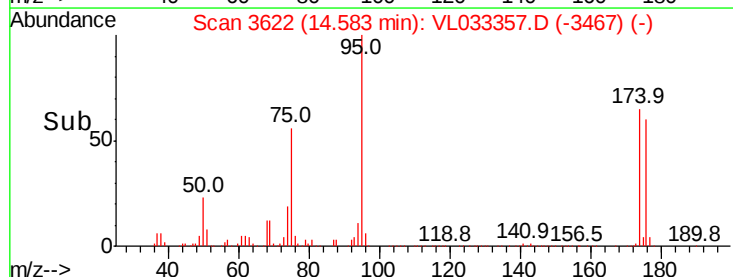
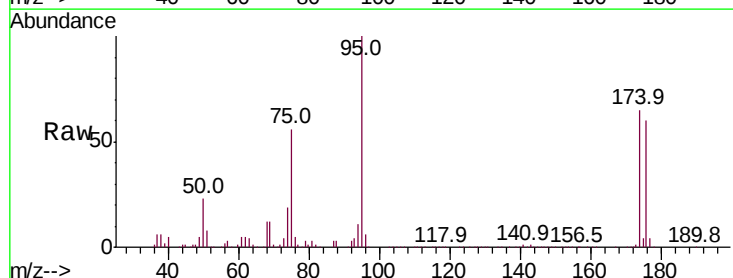
Tgt Ion: 95 Resp: 1495026

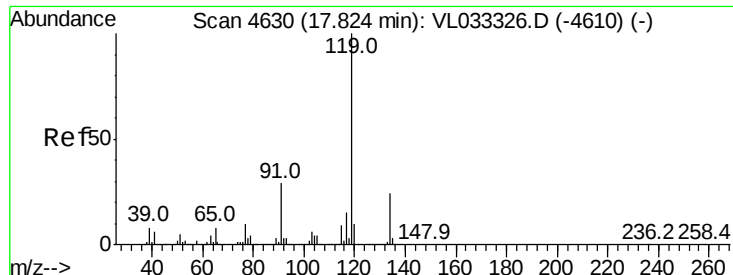
Ion Ratio Lower Upper

95 100

174 64.9 51.5 77.3

175 4.6 3.8 5.6





#69

p-Isopropyltoluene

Concen: 10.468 ppbv

RT: 17.82 min Scan# 4629

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 3637122

Ion Ratio Lower Upper

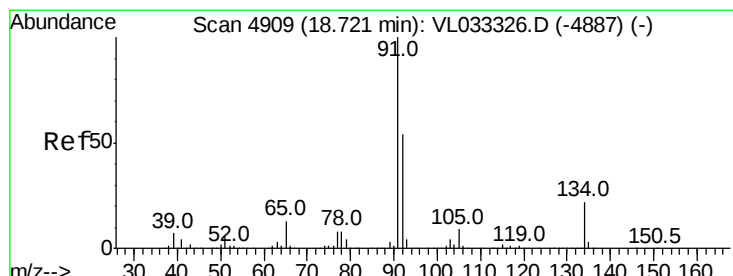
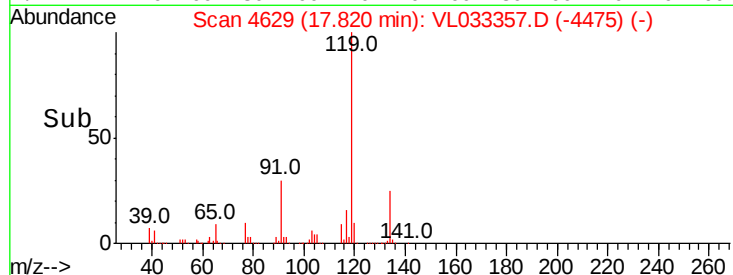
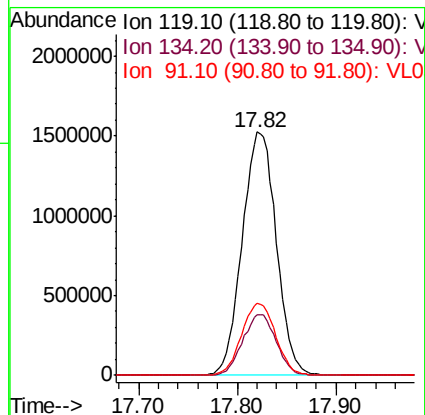
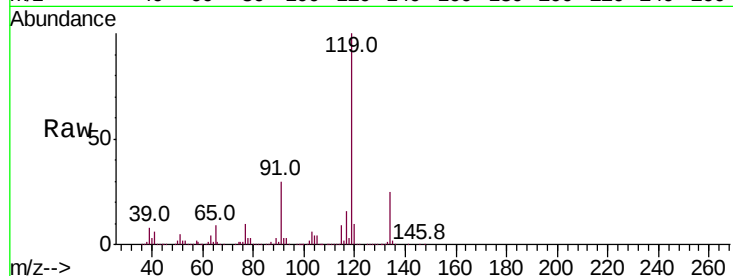
119 100

134 24.7 19.8 29.6

91 29.7 23.4 35.2

Manual Integrations
APPROVED

MMDadoda
3/19/2019 9:59:28 AM



#70

n-Butylbenzene

Concen: 10.378 ppbv

RT: 18.72 min Scan# 4909

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

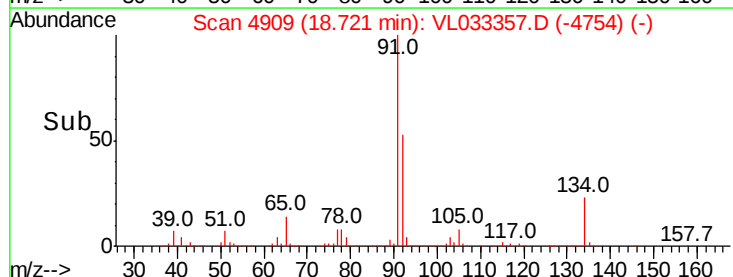
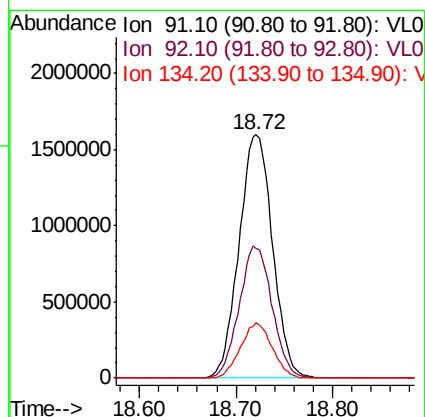
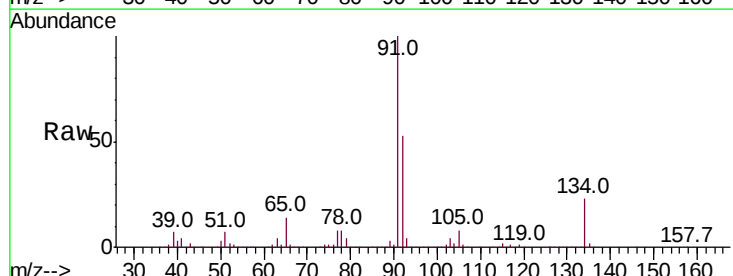
Tgt Ion: 91 Resp: 3845078

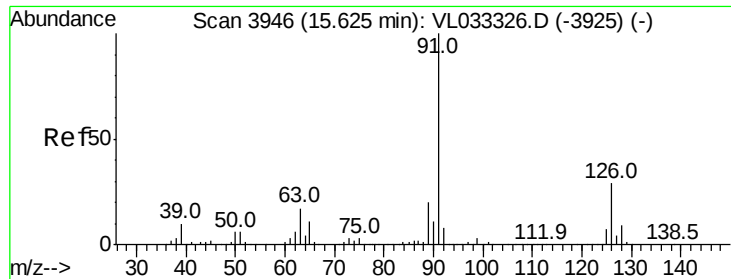
Ion Ratio Lower Upper

91 100

92 53.4 42.8 64.2

134 21.6 17.4 26.0





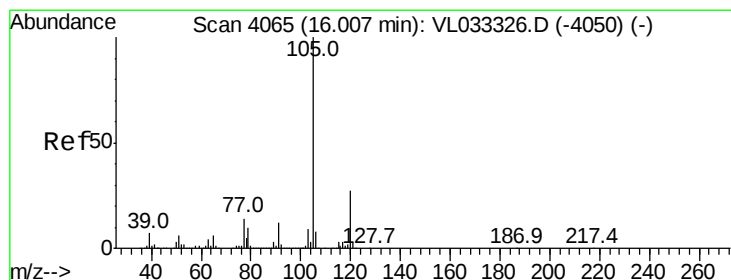
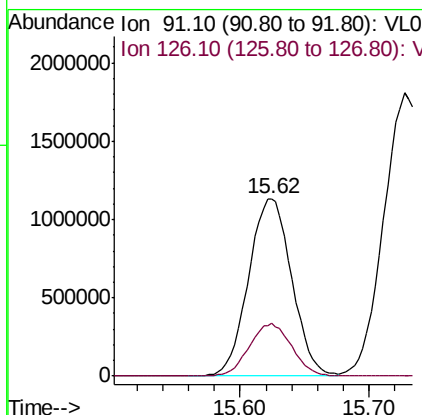
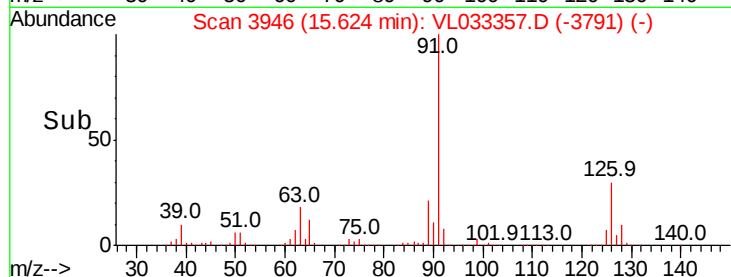
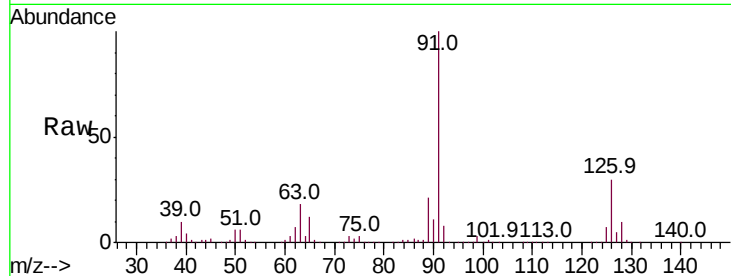
#71
 2-Chlorotoluene
 Concen: 10.181 ppbv
 RT: 15.62 min Scan# 3946
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 2642018
 Ion Ratio Lower Upper
 91 100
 126 29.2 11.6 46.6

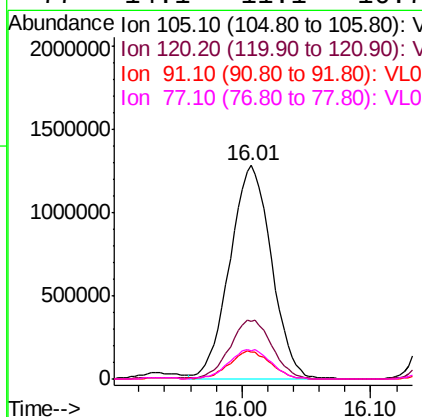
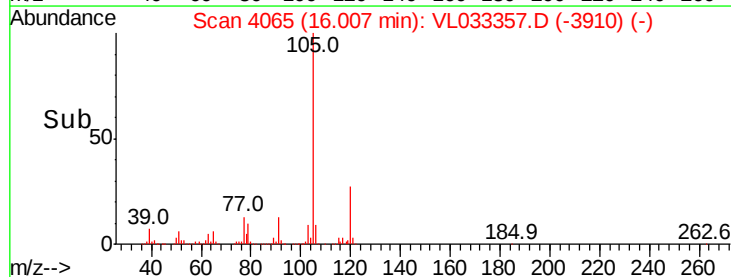
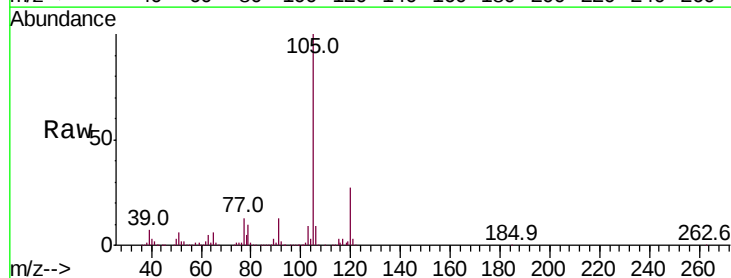
Manual Integrations
 APPROVED

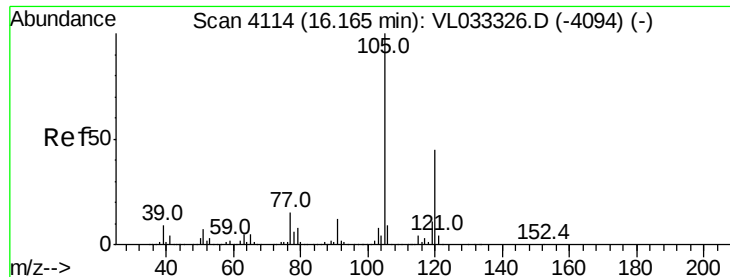
MMDadoda
 3/19/2019 9:59:28 AM



#72
 4-Ethyltoluene
 Concen: 10.537 ppbv
 RT: 16.01 min Scan# 4065
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Tgt Ion: 105 Resp: 2869327
 Ion Ratio Lower Upper
 105 100
 120 28.2 22.9 34.3
 91 13.1 10.2 15.2
 77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.441 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2769846

Ion Ratio Lower Upper

105 100

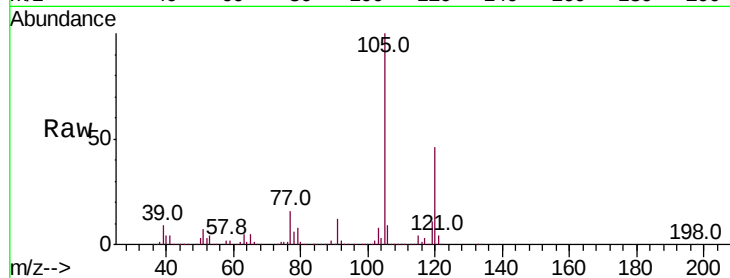
120 45.6 36.2 54.4

Manual Integrations

APPROVED

MMDadoda

3/19/2019 9:59:28 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

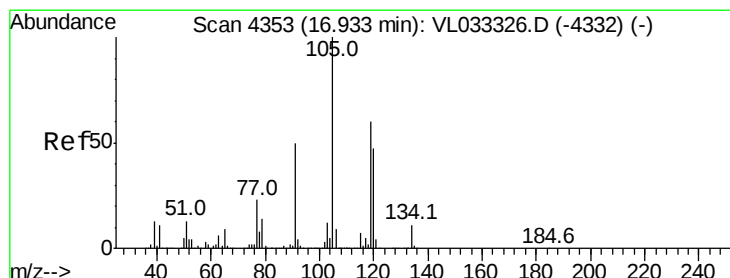
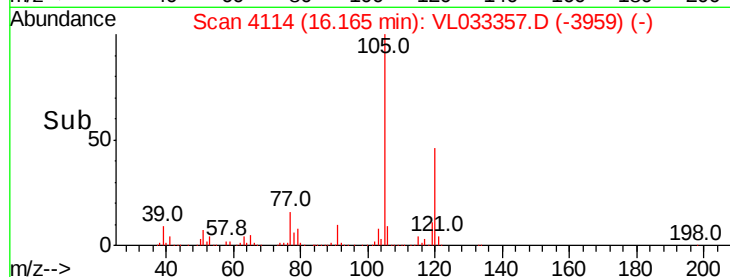
16.16

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 10.089 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Tgt Ion:105 Resp: 2834583

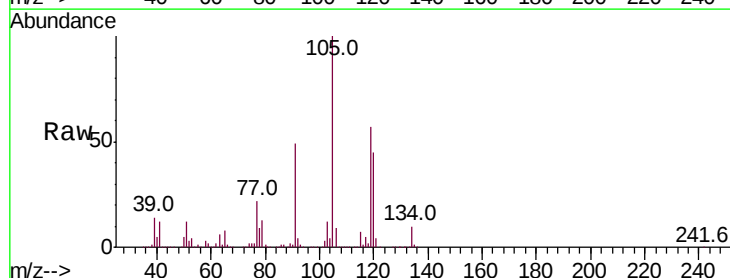
Ion Ratio Lower Upper

105 100

120 44.5 37.4 56.2

91 49.1 41.0 61.4

77 22.2 18.5 27.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

16.93

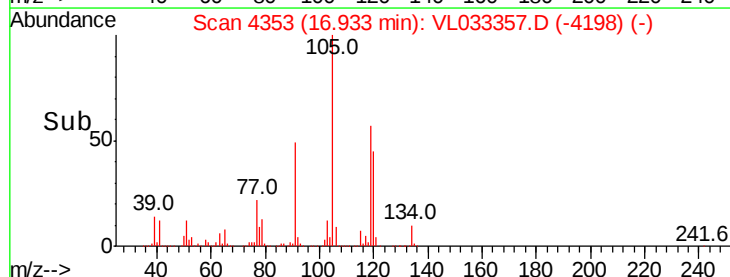
1500000

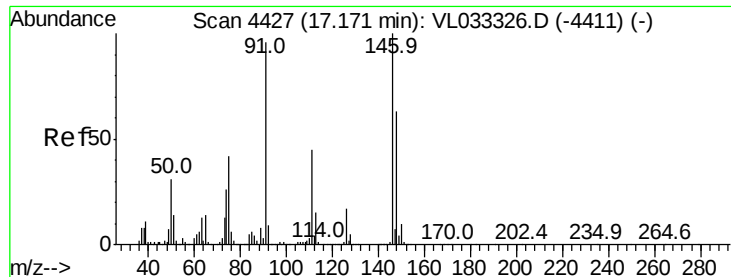
1000000

500000

0

Time-->





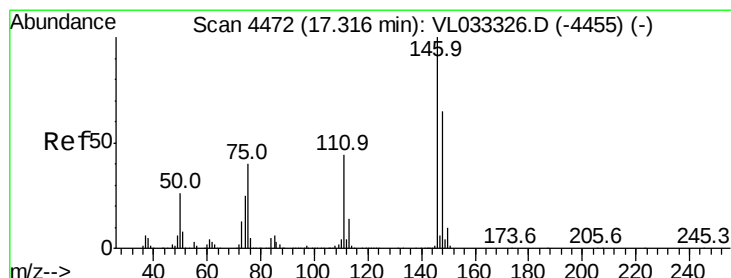
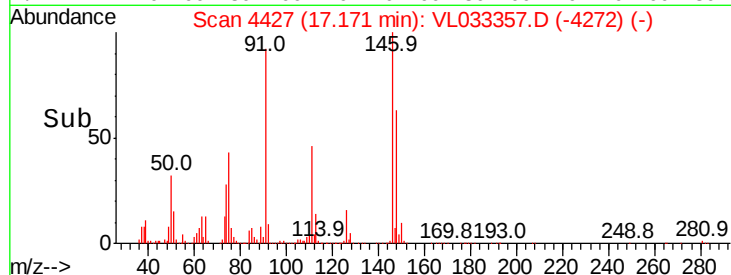
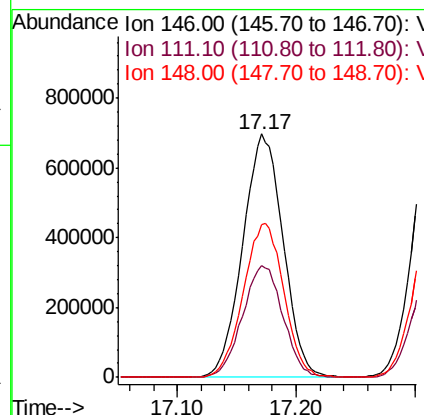
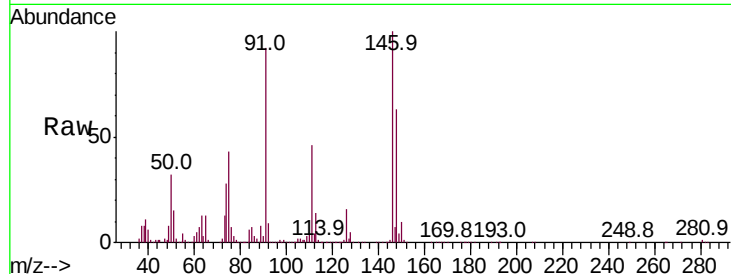
#75
 1,3-Dichlorobenzene
 Concen: 9.861 ppbv
 RT: 17.17 min Scan# 4427
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.3	22.8	68.3
148	63.6	31.9	95.7

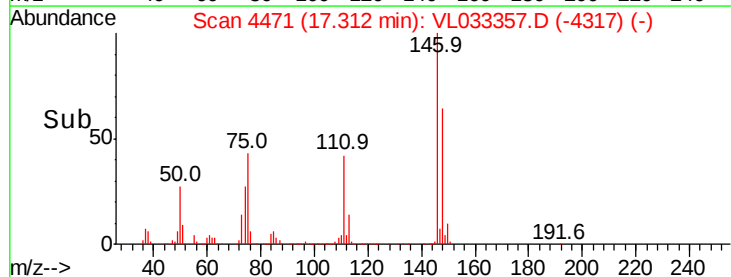
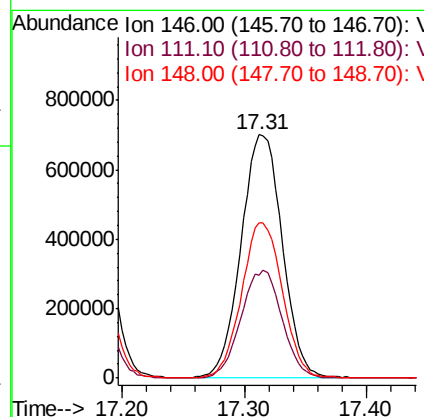
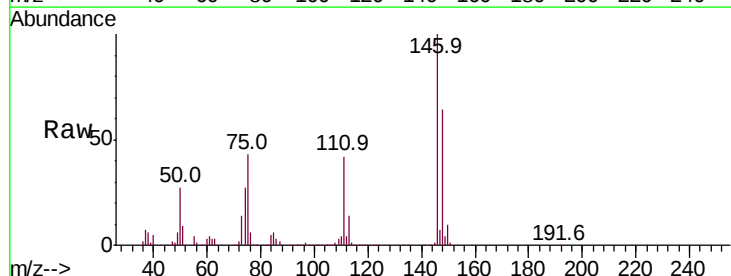
Manual Integrations
 APPROVED

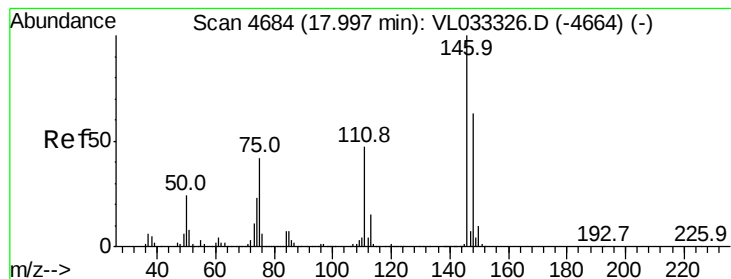
MMDadoda
 3/19/2019 9:59:28 AM



#76
 1,4-Dichlorobenzene
 Concen: 10.151 ppbv
 RT: 17.31 min Scan# 4471
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.9	65.7
148	63.9	32.1	96.5





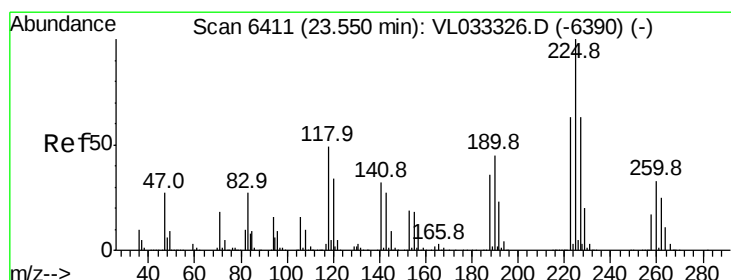
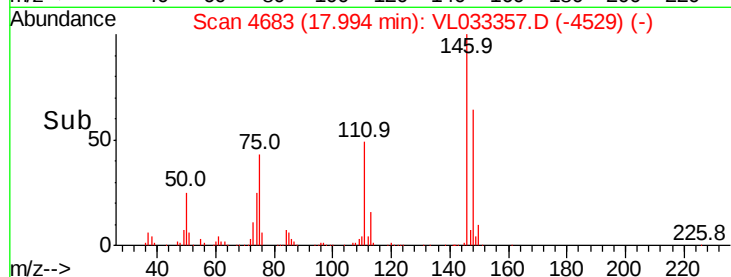
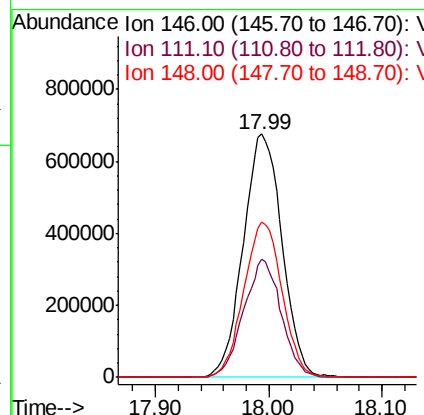
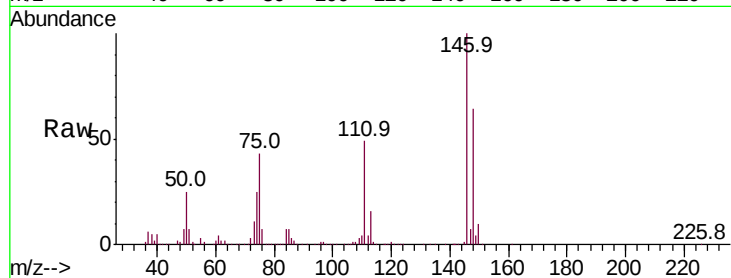
#77
 1,2-Dichlorobenzene
 Concen: 10.282 ppbv
 RT: 17.99 min Scan# 4683
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.9	23.5	70.6
148	63.2	31.9	95.9

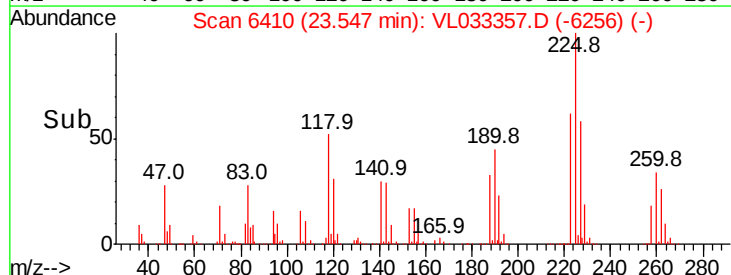
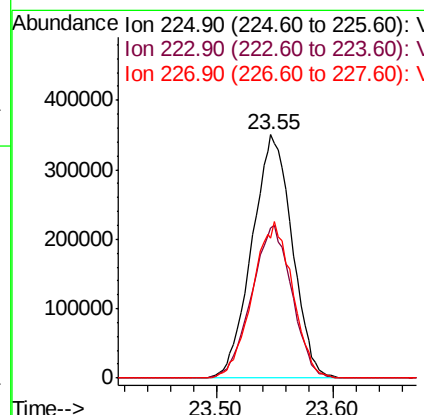
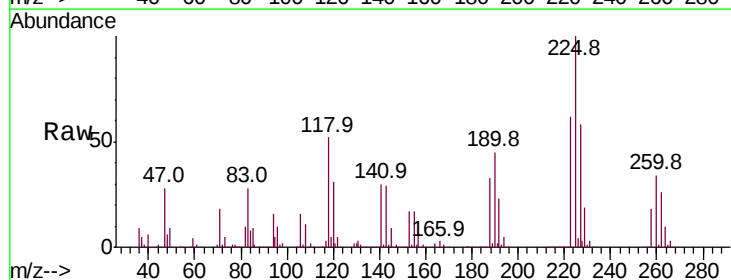
Manual Integrations
 APPROVED

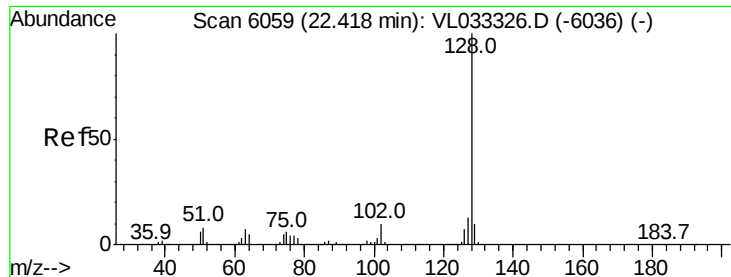
MMDadoda
 3/19/2019 9:59:28 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.996 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL033357.D
 Acq: 16 Mar 2019 8:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.4	75.6
227	63.8	50.5	75.7





#79

Naphthalene

Concen: 10.245 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 2773764

Ion Ratio Lower Upper

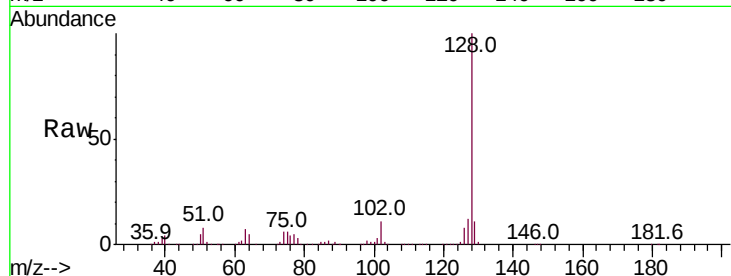
128 100

127 12.2 10.1 15.1

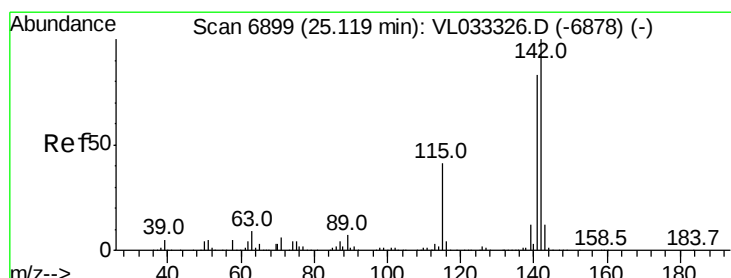
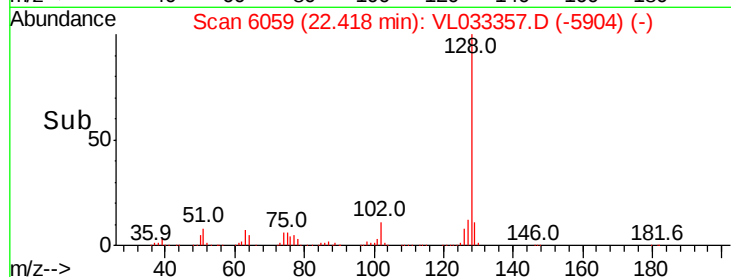
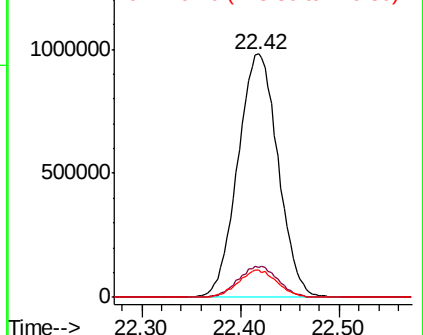
129 11.4 8.2 12.2

Manual Integrations
APPROVED

MMDadoda
3/19/2019 9:59:28 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: 11.074 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

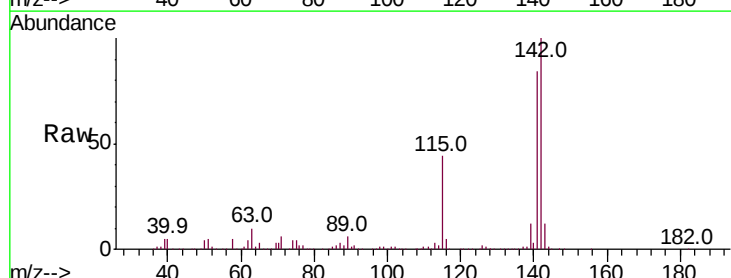
Tgt Ion:142 Resp: 1421796

Ion Ratio Lower Upper

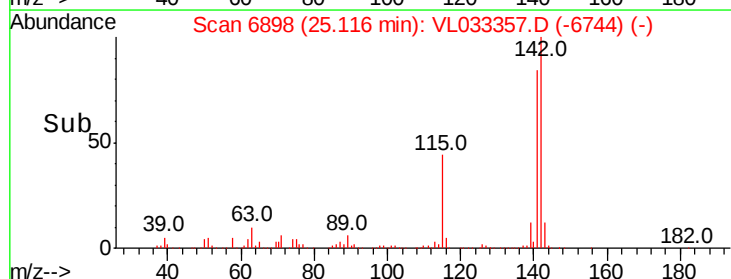
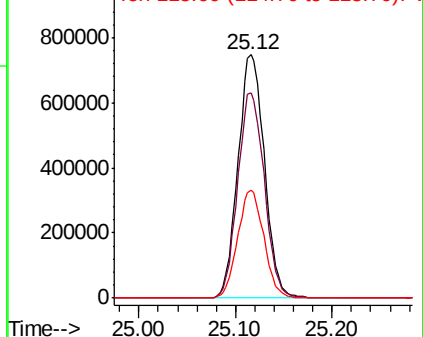
142 100

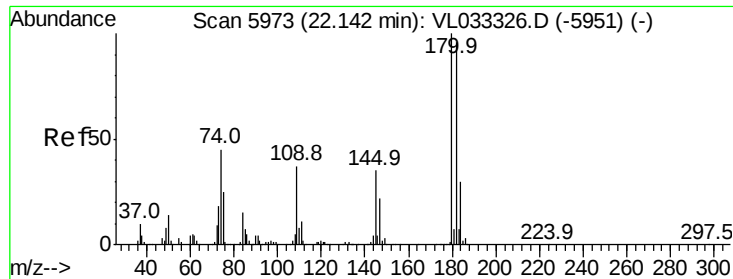
141 85.2 67.1 100.7

115 44.1 33.8 50.6



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: 9.984 ppbv

RT: 22.14 min Scan# 5972

Delta R.T. -0.00 min

Lab File: VL033357.D

Acq: 16 Mar 2019 8:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:180 Resp: 1378413

Ion Ratio Lower Upper

180 100

182 96.0 76.1 114.1

184 30.8 24.6 37.0

Manual Integrations

APPROVED

MMDadoda

3/19/2019 9:59:28 AM

