

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036956.D
 Acq On : 18 May 2021 5:47
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 5/20/2021 5:54:25 PM

Quant Time: May 18 11:51:19 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 07:06:50 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1327149	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3979744	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3889871m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2981283	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	2326217	10.276	ppbv	99
3) Chlorodifluoromethane	2.97	51	3182006	12.199	ppbv	99
4) Chloromethane	3.12	50	1139386	13.371	ppbv	100
5) Vinyl Chloride	3.24	62	1227384	13.214	ppbv	99
6) Bromomethane	3.46	94	642369	13.709	ppbv	99
7) Chloroethane	3.54	64	437497	14.629	ppbv	98
8) Dichlorotetrafluoroethane	3.17	85	2709741	12.691	ppbv	100
9) Propene	2.99	41	1170100	15.733	ppbv	99
10) Heptane	8.10	43	2866263	16.192	ppbv	100
11) Trichlorofluoromethane	3.93	101	2820143	13.839	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	2003046	14.551	ppbv	100
13) Ethanol	3.59	45	123273m	8.733	ppbv	
14) Bromoethene	3.72	108	893262	16.174	ppbv	99
15) Acetone	3.83	43	1503596	12.063	ppbv	99
16) 1,3-Butadiene	3.31	39	1176894	14.596	ppbv	100
17) tert-Butyl alcohol	4.28	59	1454435	12.626	ppbv	100
18) 1,1-Dichloroethene	4.27	96	923806	16.330	ppbv	100
19) Isopropyl Alcohol	3.95	45	799189	11.255	ppbv #	86
20) Methylene Chloride	4.33	84	798710m	7.848	ppbv	
21) Allyl Chloride	4.39	41	1433992	15.627	ppbv	99
22) trans-1,2-Dichloroethene	4.86	96	935661	16.123	ppbv	98
23) Vinyl Acetate	5.06	43	3105811	17.522	ppbv	99
24) 1,1-Dichloroethane	4.99	63	2004154	14.880	ppbv	100
25) Ethyl Acetate	5.66	43	4322121	14.036	ppbv	100
26) Hexane	5.67	57	2109389	13.338	ppbv	99
27) Carbon Disulfide	4.53	76	2356111	16.826	ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	2566179	16.794	ppbv	100
29) Chloroform	5.73	83	3154562	13.295	ppbv	97
30) Cyclohexane	7.11	84	1890673	15.630	ppbv	99
31) cis-1,2-Dichloroethene	5.53	61	2112604	17.052	ppbv	98
32) 1,1,1-Trichloroethane	6.49	97	3274872	12.948	ppbv	99
34) 2-Butanone	5.23	43	2147757	14.112	ppbv	99
35) Carbon Tetrachloride	7.00	117	3368514	10.829	ppbv	98
36) Benzene	6.87	78	4463835	13.963	ppbv	99
37) 1,2-Dichloroethane	6.29	62	2358004	12.434	ppbv	100
38) Trichloroethene	7.81	130	1700616	12.969	ppbv	99
39) 1,2-Dichloropropane	7.59	63	1754784	13.399	ppbv	99
40) 1,4-Dioxane	7.81	88	334877	9.805	ppbv #	100
41) Tetrahydrofuran	6.03	42	1133978	18.245	ppbv	100
42) Bromodichloromethane	7.77	83	3509476	12.568	ppbv	99
43) Methyl Methacrylate	7.99	69	1648541	17.718	ppbv	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036956.D
 Acq On : 18 May 2021 5:47
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

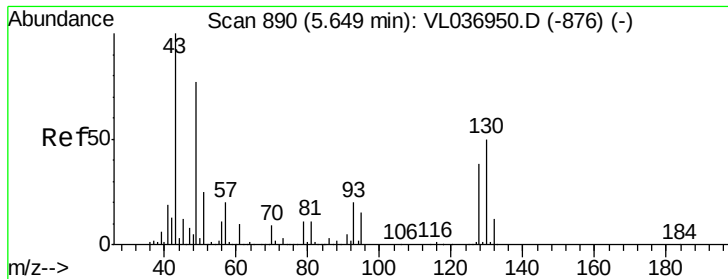
Manual Integrations
 APPROVED

MMDadoda
 5/20/2021 5:54:25 PM

Quant Time: May 18 11:51:19 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 07:06:50 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	7130166	12.546	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	1399577	16.658	ppbv	100
46) cis-1,3-Dichloropropene	8.68	75	1756978	14.935	ppbv	99
47) 1,1,2-Trichloroethane	9.46	97	1842824	12.830	ppbv	99
48) Dibromochloromethane	10.28	129	3132569	14.497	ppbv	100
49) Bromoform	13.02	173	2671872	15.021	ppbv	100
50) 4-Methyl-2-Pentanone	8.72	43	3261767	15.660	ppbv	100
51) 2-Hexanone	10.11	43	1828133	20.598	ppbv #	99
52) Tetrachloroethene	11.20	164	1723528	14.668	ppbv	97
53) Toluene	9.78	91	5233237	16.411	ppbv	100
54) 1,2-Dibromoethane	10.59	107	2678516	14.282	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.10	131	2074059	11.597	ppbv #	61
57) Chlorobenzene	12.13	112	3791865	11.550	ppbv	99
58) Ethyl Benzene	12.69	91	6750723	14.600	ppbv	95
59) m/p-Xylene	12.97	91	10995065m	25.303	ppbv	
60) o-Xylene	13.67	91	5238278	12.464	ppbv	100
61) Styrene	13.51	104	3350941	19.415	ppbv	99
62) Isopropylbenzene	14.64	105	7404884	12.920	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.65	83	3655174	9.204	ppbv	99
64) n-propylbenzene	15.54	120	2110902	14.882	ppbv	93
65) tert-Butylbenzene	16.73	119	6563535	12.912	ppbv	99
66) Benzyl Chloride	16.97	91	443339	9.582	ppbv	99
67) sec-Butylbenzene	17.27	105	9015997	12.554	ppbv	98
69) p-Isopropyltoluene	17.63	119	7881439	14.422	ppbv	98
70) n-Butylbenzene	18.53	91	7856531	14.341	ppbv	99
71) 2-Chlorotoluene	15.43	91	5616955	13.706	ppbv	99
72) 4-Ethyltoluene	15.82	105	6555876	15.055	ppbv	99
73) 1,3,5-Trimethylbenzene	15.98	105	5997411	14.096	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	6053400	12.957	ppbv	97
75) 1,3-Dichlorobenzene	16.98	146	3929934	12.976	ppbv	99
76) 1,4-Dichlorobenzene	17.12	146	3966984m	14.659	ppbv	
77) 1,2-Dichlorobenzene	17.80	146	3840254	14.005	ppbv	100
78) Hexachloro-1,3-Butadiene	23.36	225	2805758	11.456	ppbv	99
79) Naphthalene	22.17	128	6128896	29.043	ppbv	98
80) Naphthalene, 2-methyl-	24.96	142	1614026	52.189	ppbv	95
81) 1,2,4-Trichlorobenzene	21.90	180	3423731	22.671	ppbv	97

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1327149

Ion Ratio Lower Upper

49 100

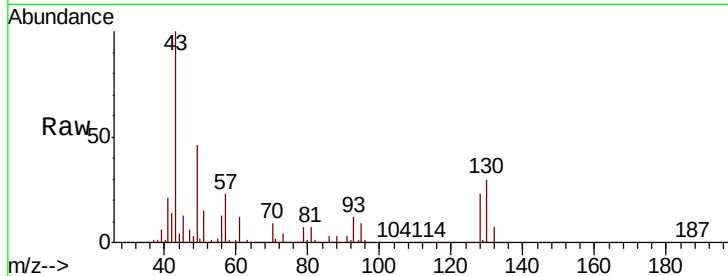
128 55.9 26.9 80.7

130 67.8 33.8 101.4

Manual Integrations
APPROVED

MMDadoda

5/20/2021 5:54:25 PM



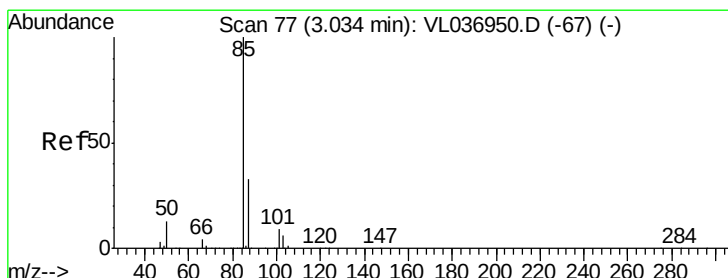
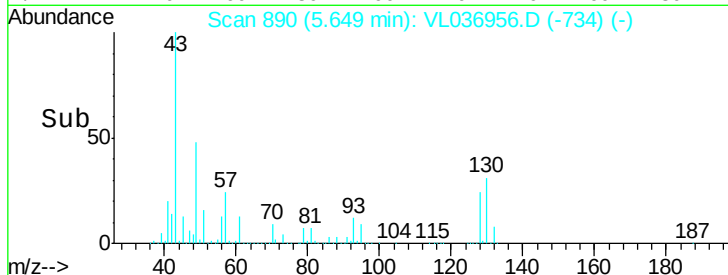
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.65

Time--> 5.55 5.60 5.65 5.70



#2

Dichlorodifluoromethane

Concen: 10.276 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL036956.D

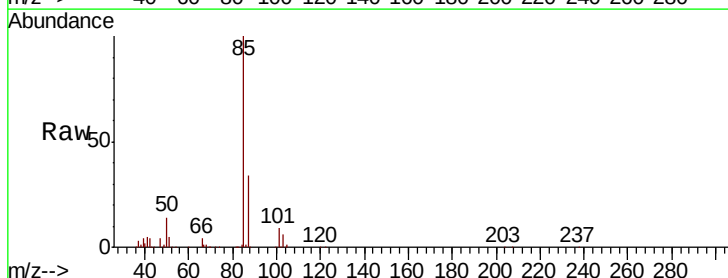
Acq: 18 May 2021 5:47

Tgt Ion: 85 Resp: 2326217

Ion Ratio Lower Upper

85 100

87 33.6 26.6 39.8

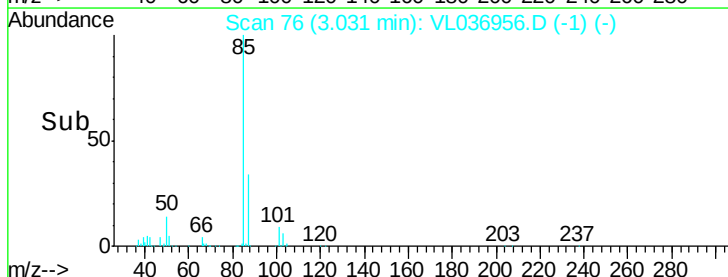


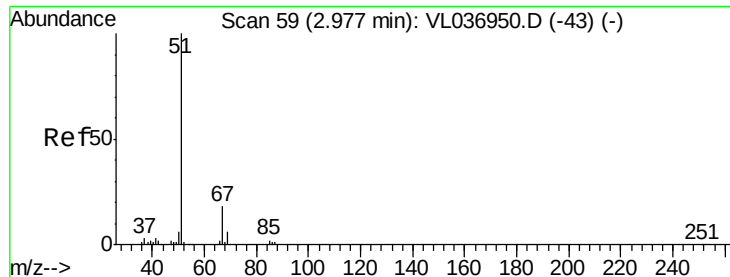
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.03

Time--> 2.95 3.00 3.05 3.10 3.15





#3

Chlorodifluoromethane

Concen: 12.199 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 3182006

Ion Ratio Lower Upper

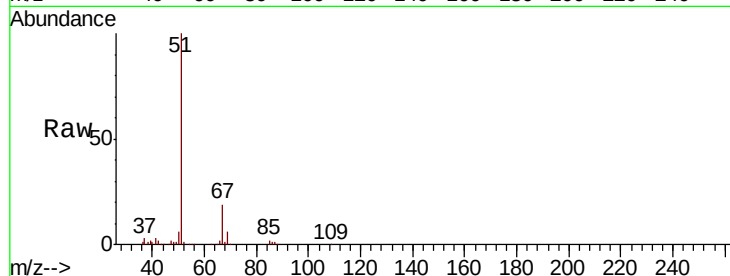
51 100

67 18.5 14.6 21.8

Manual Integrations
APPROVED

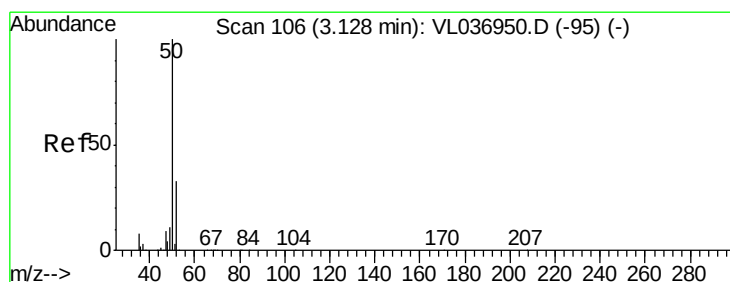
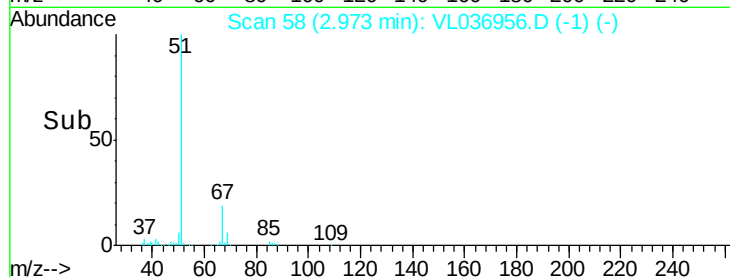
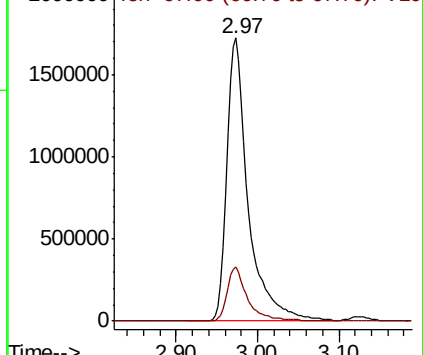
MMDadoda

5/20/2021 5:54:25 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 13.371 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL036956.D

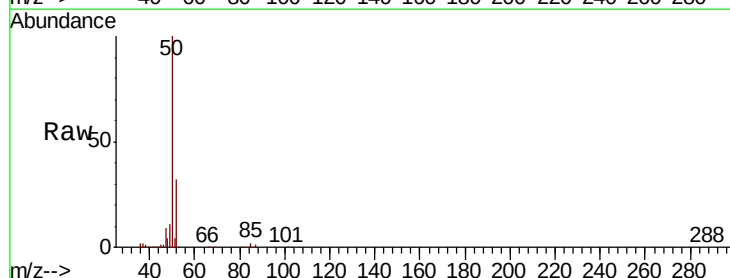
Acq: 18 May 2021 5:47

Tgt Ion: 50 Resp: 1139386

Ion Ratio Lower Upper

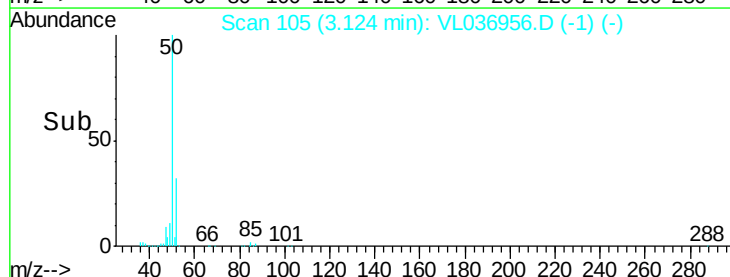
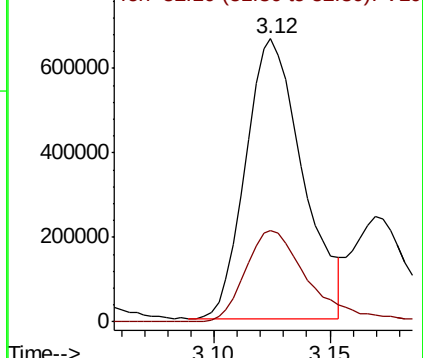
50 100

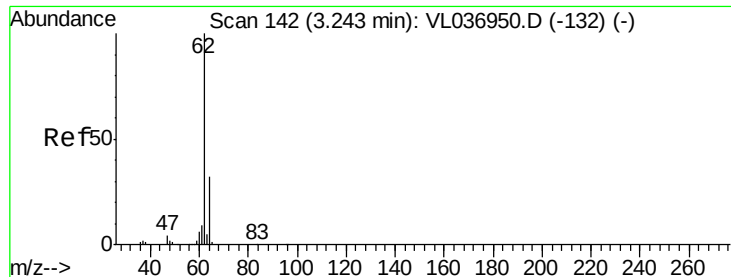
52 32.5 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 13.214 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1227384

Ion Ratio Lower Upper

62 100

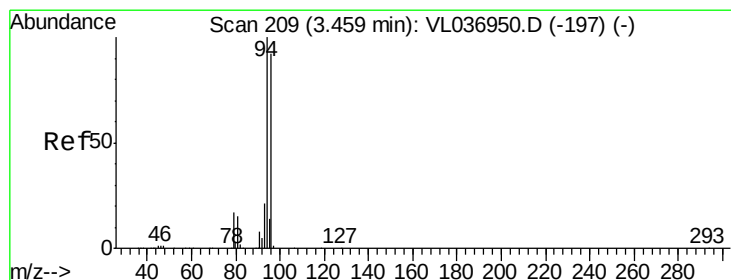
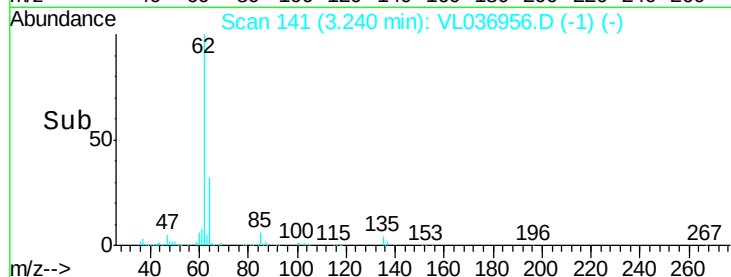
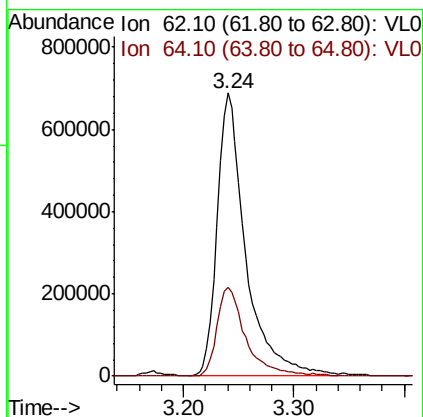
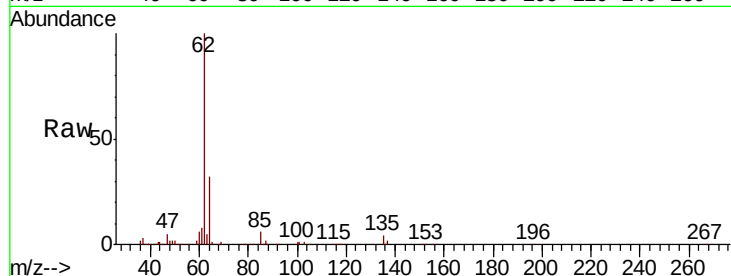
64 31.6 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

5/20/2021 5:54:25 PM



#6

Bromomethane

Concen: 13.709 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL036956.D

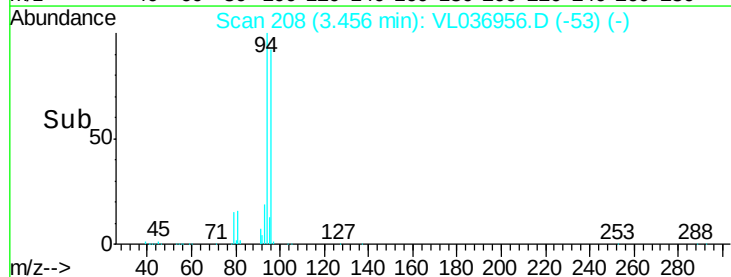
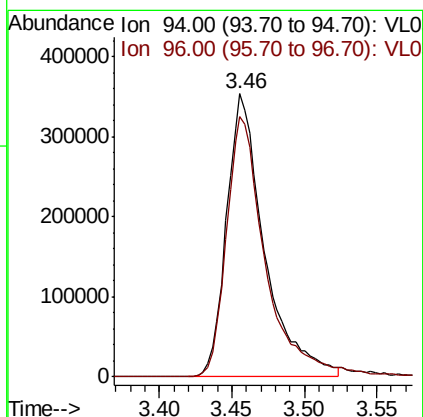
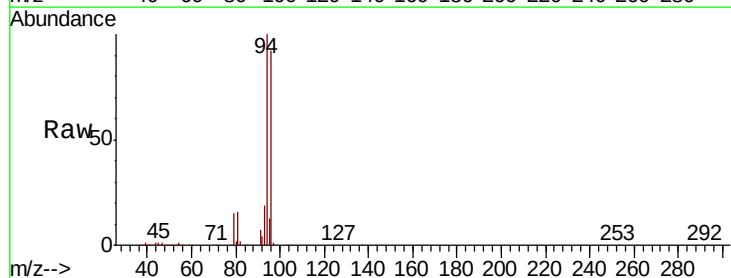
Acq: 18 May 2021 5:47

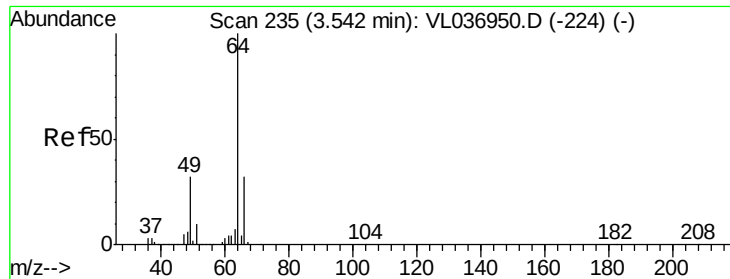
Tgt Ion: 94 Resp: 642369

Ion Ratio Lower Upper

94 100

96 92.0 74.0 111.0





#7

Chloroethane

Concen: 14.629 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 437497

Ion Ratio Lower Upper

64 100

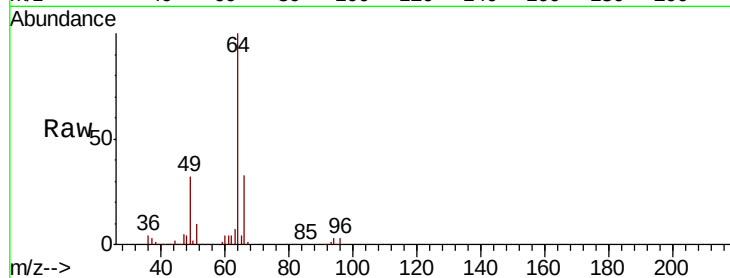
66 32.7 25.4 38.2

Manual Integrations

APPROVED

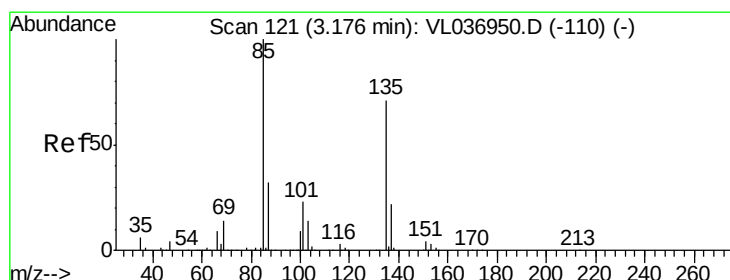
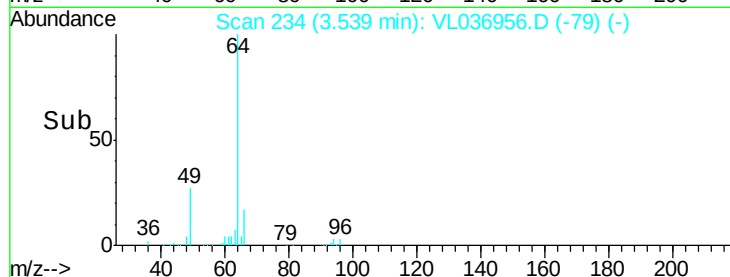
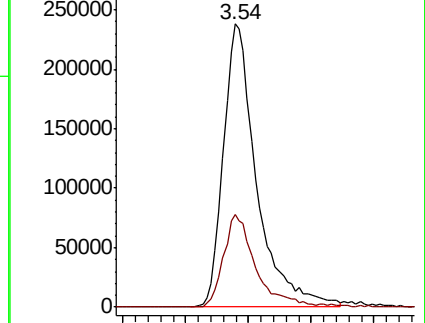
MMDadoda

5/20/2021 5:54:25 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 12.691 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.00 min

Lab File: VL036956.D

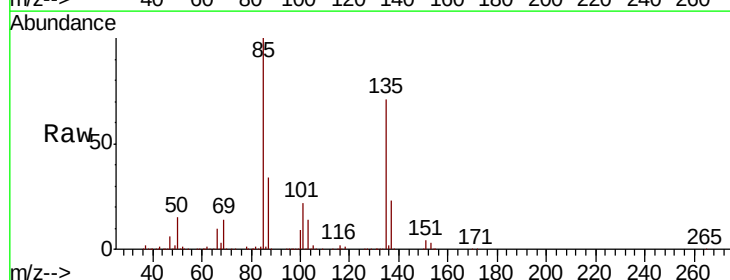
Acq: 18 May 2021 5:47

Tgt Ion: 85 Resp: 2709741

Ion Ratio Lower Upper

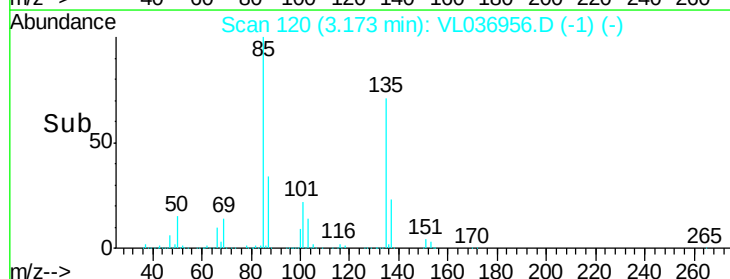
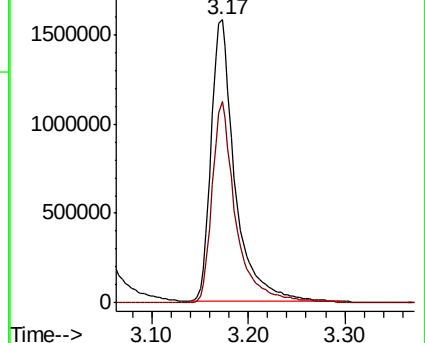
85 100

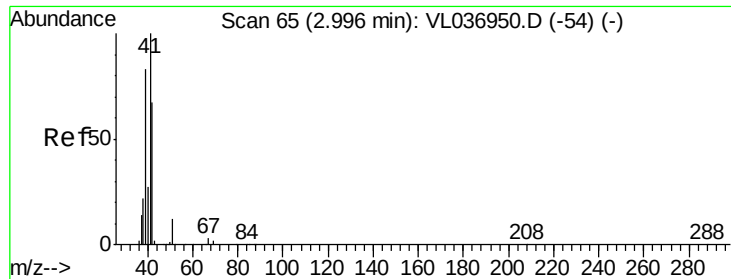
135 71.7 57.7 86.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 15.733 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1170100

Ion Ratio Lower Upper

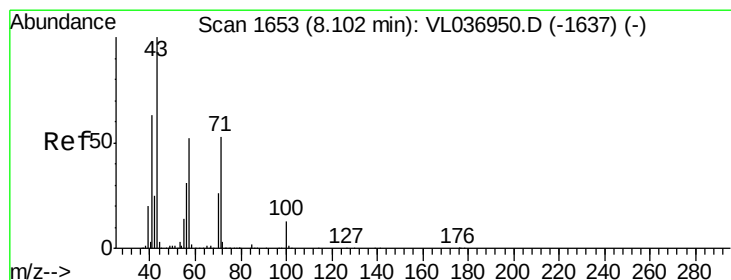
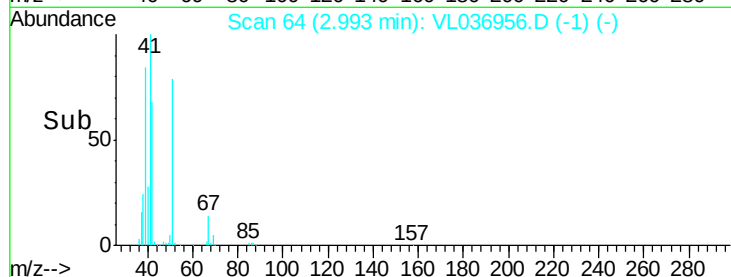
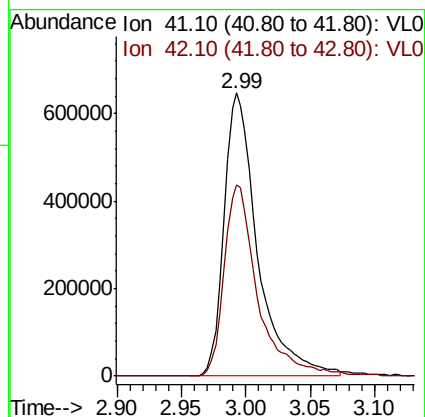
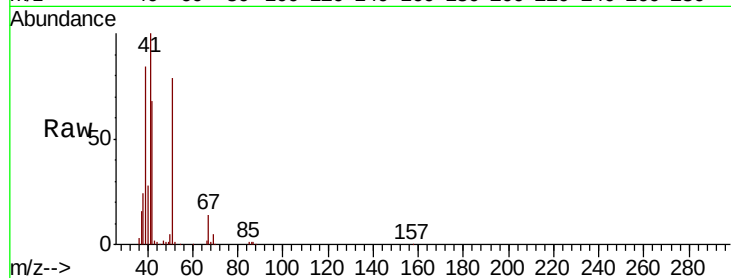
41 100

42 68.2 53.9 80.9

Manual Integrations
APPROVED

MMDadoda

5/20/2021 5:54:25 PM



#10

Heptane

Concen: 16.192 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VL036956.D

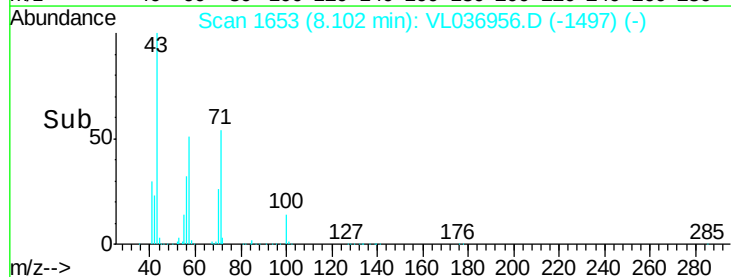
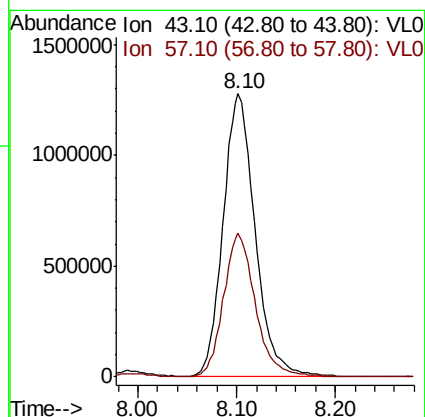
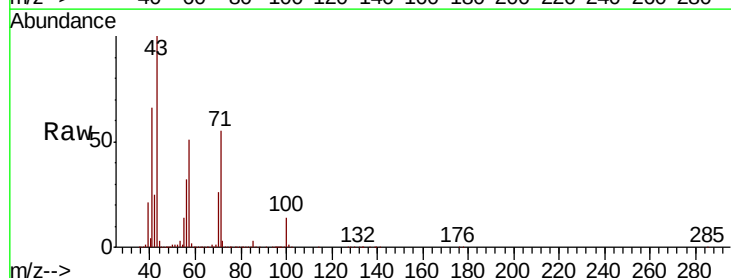
Acq: 18 May 2021 5:47

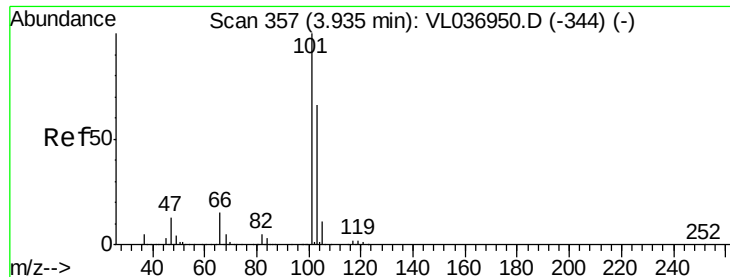
Tgt Ion: 43 Resp: 2866263

Ion Ratio Lower Upper

43 100

57 51.1 41.0 61.6





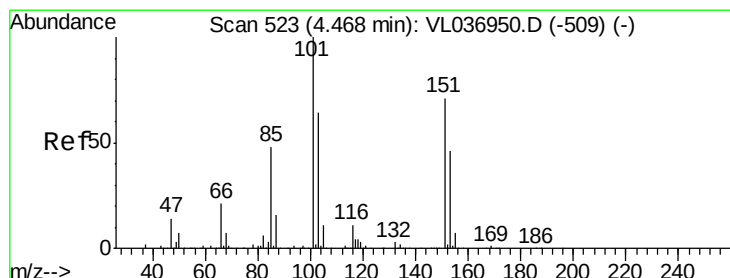
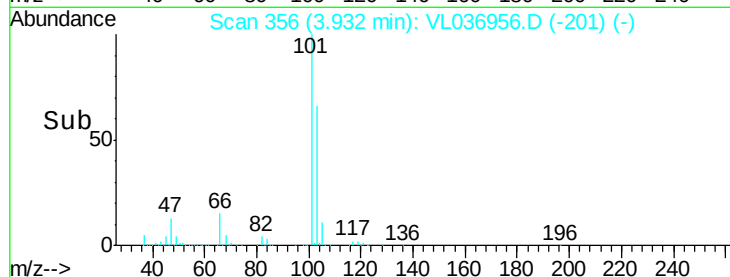
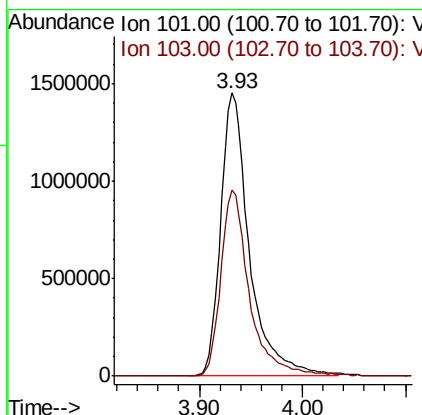
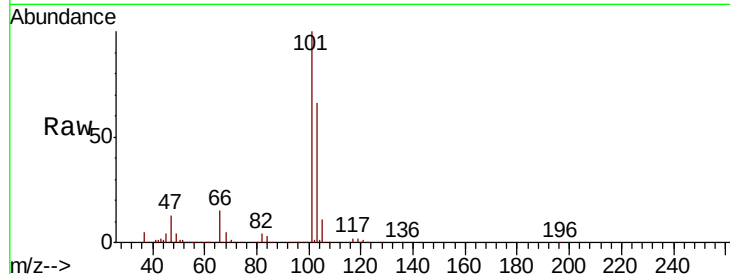
#11
 Trichlorofluoromethane
 Concen: 13.839 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. -0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2820143
 Ion Ratio Lower Upper
 101 100
 103 65.5 52.6 79.0

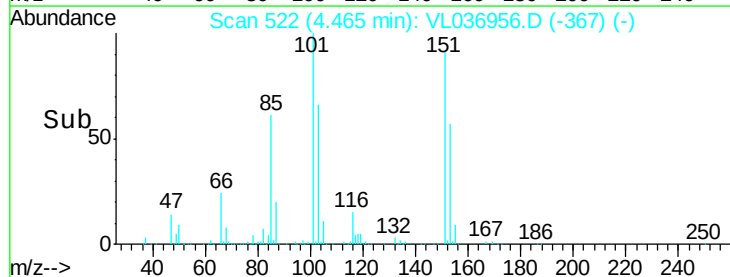
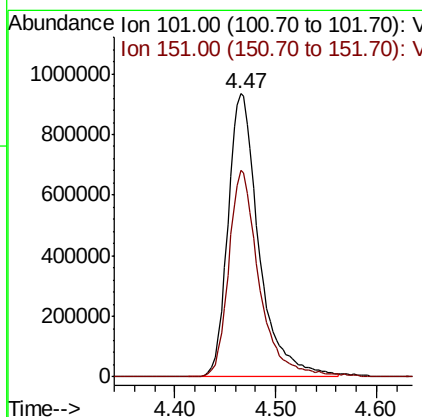
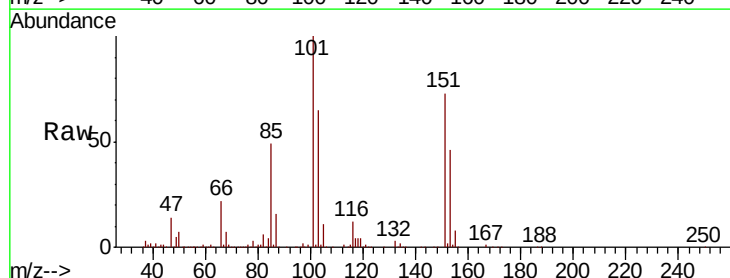
Manual Integrations
 APPROVED

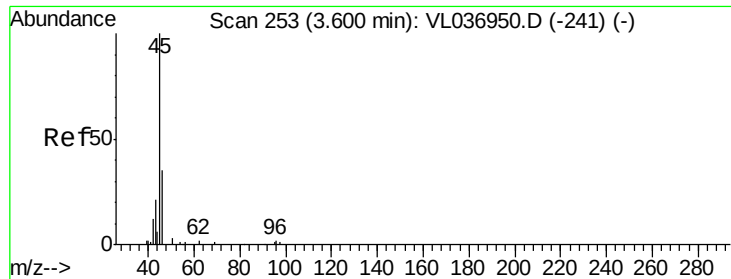
MMDadoda
 5/20/2021 5:54:25 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.551 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. -0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Tgt Ion:101 Resp: 2003046
 Ion Ratio Lower Upper
 101 100
 151 72.3 57.7 86.5





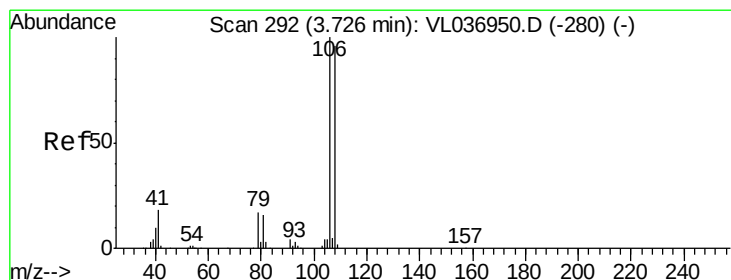
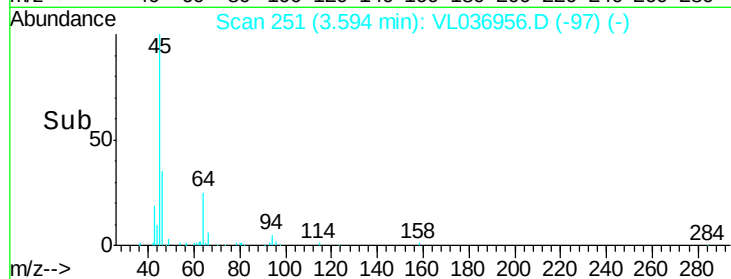
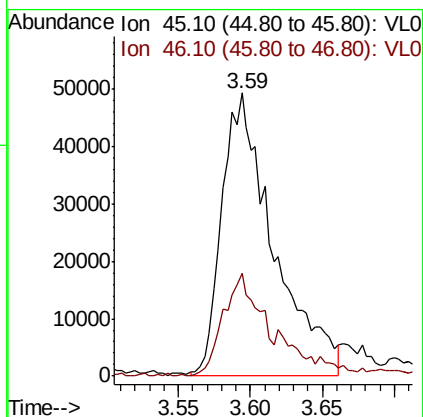
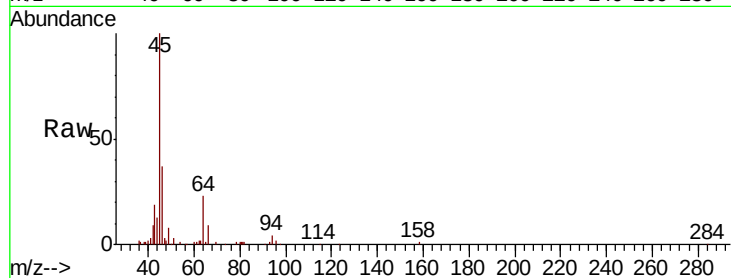
#13
Ethanol
Concen: 8.733 ppbv m
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.6	16.3	65.3

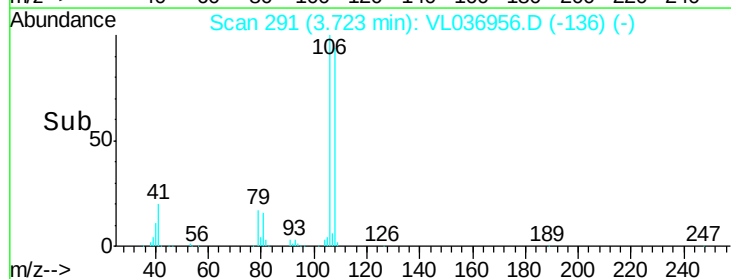
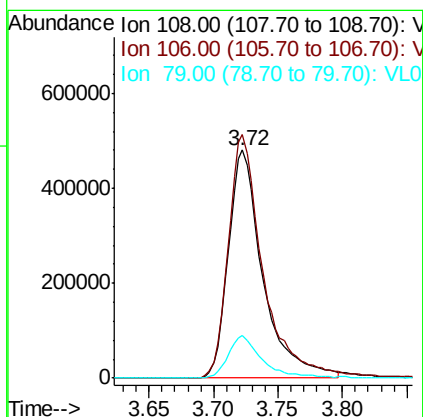
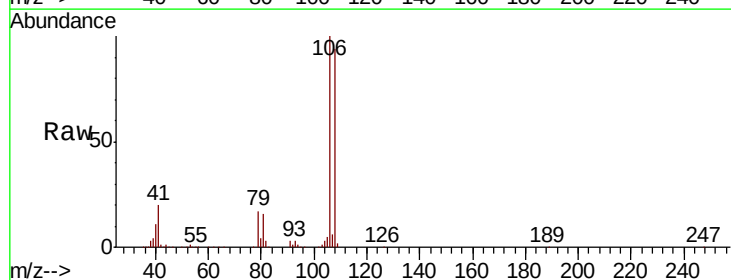
Manual Integrations
APPROVED

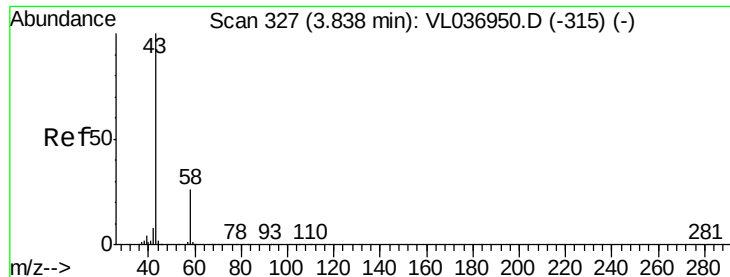
MMDadoda
5/20/2021 5:54:25 PM



#14
Bromoethene
Concen: 16.174 ppbv
RT: 3.72 min Scan# 291
Delta R.T. -0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion	Ratio	Lower	Upper
108	100		
106	109.1	86.5	129.7
79	18.7	15.0	22.4





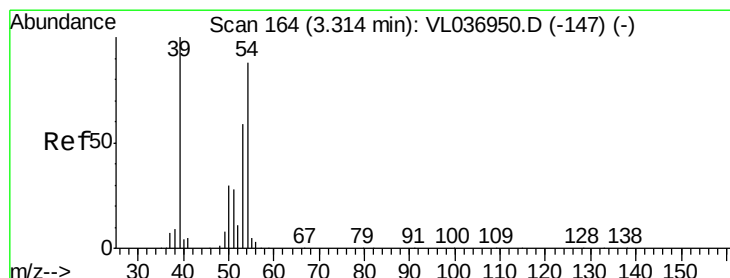
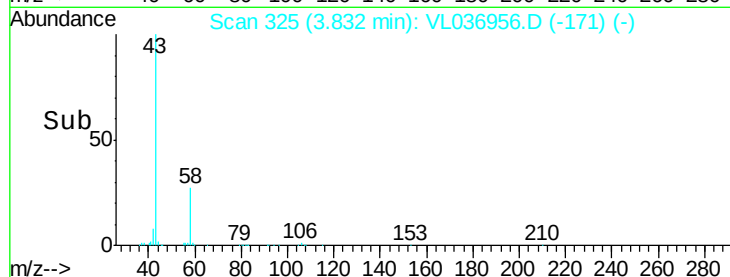
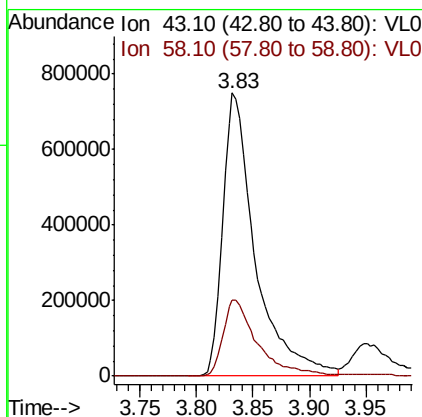
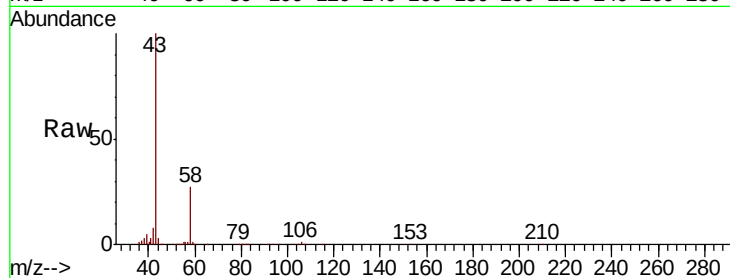
#15
Acetone
Concen: 12.063 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.01 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 1503596
Ion Ratio Lower Upper
43 100
58 29.4 24.0 36.0

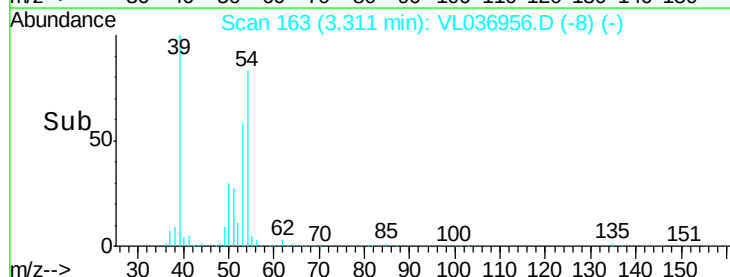
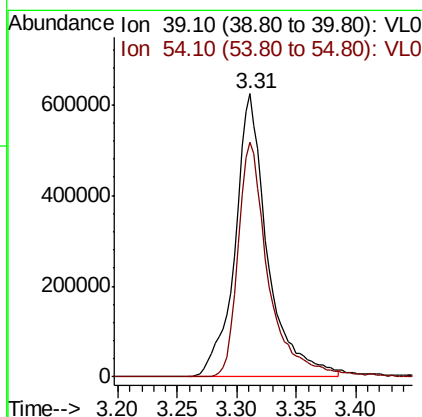
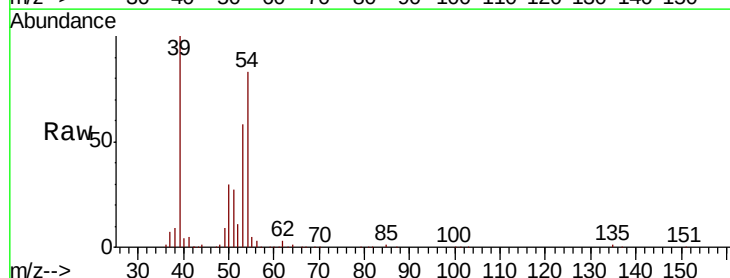
Manual Integrations
APPROVED

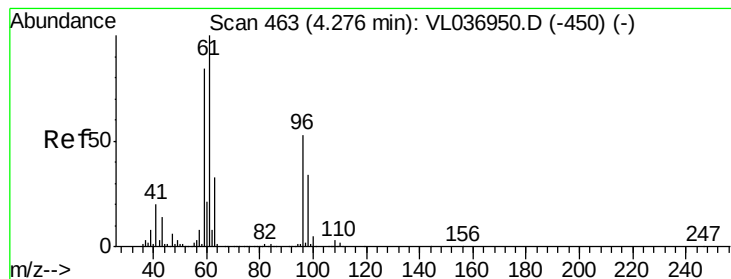
MMDadoda
5/20/2021 5:54:25 PM



#16
1,3-Butadiene
Concen: 14.596 ppbv
RT: 3.31 min Scan# 163
Delta R.T. -0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion: 39 Resp: 1176894
Ion Ratio Lower Upper
39 100
54 78.7 63.2 94.8





#17

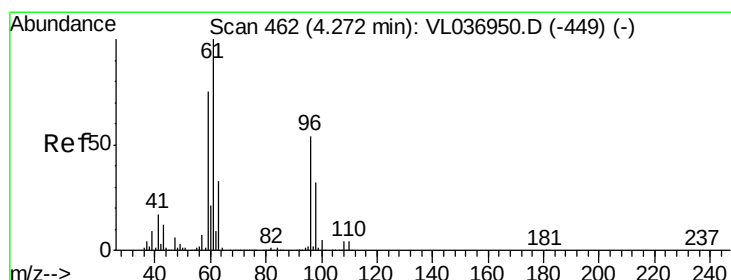
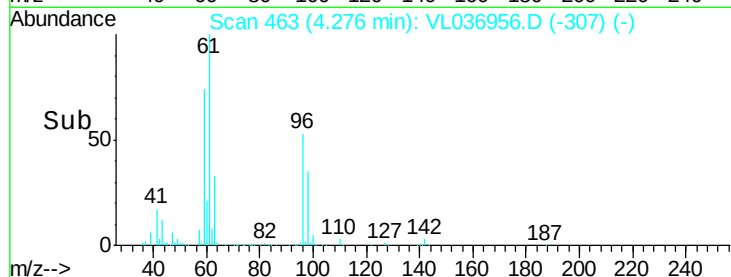
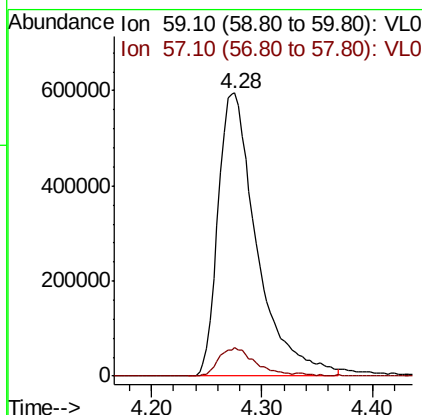
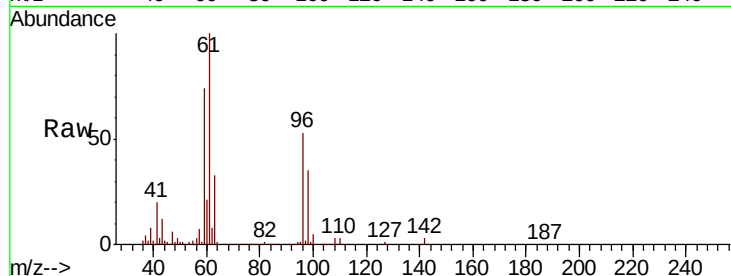
tert-Butyl alcohol
Concen: 12.626 ppbv
RT: 4.28 min Scan# 463
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 1454435
Ion Ratio Lower Upper
59 100
57 10.3 8.3 12.5

Manual Integrations
APPROVED

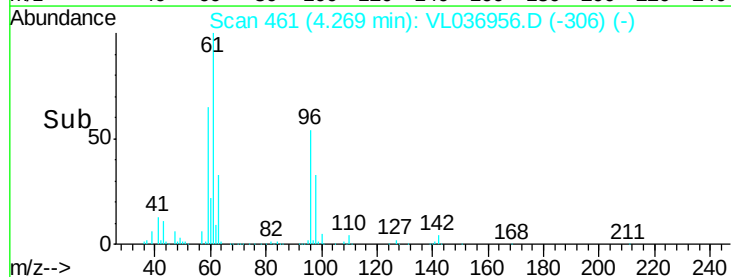
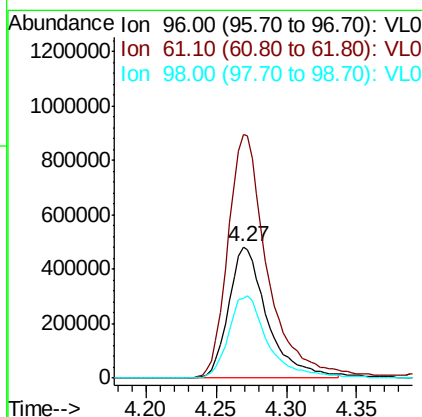
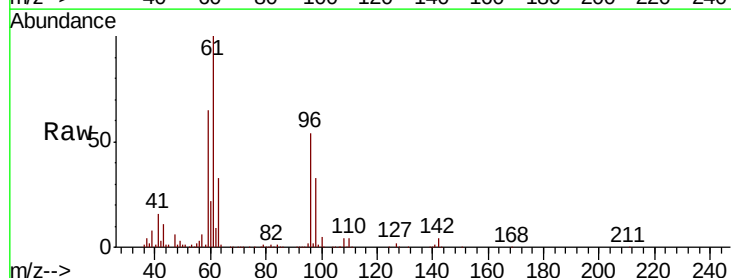
MMDadoda
5/20/2021 5:54:25 PM

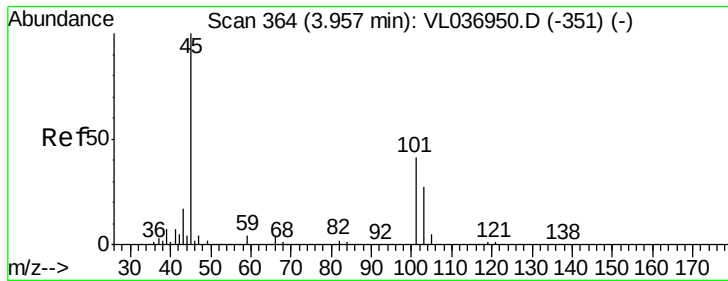


#18

1,1-Dichloroethene
Concen: 16.330 ppbv
RT: 4.27 min Scan# 461
Delta R.T. -0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion: 96 Resp: 923806
Ion Ratio Lower Upper
96 100
61 185.3 148.2 222.4
98 61.2 47.8 71.6





#19

Isopropyl Alcohol

Concen: 11.255 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 799189

Ion Ratio Lower Upper

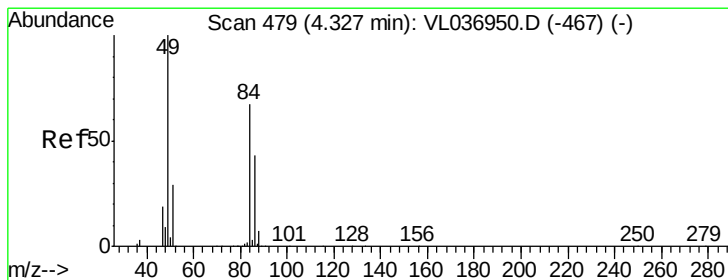
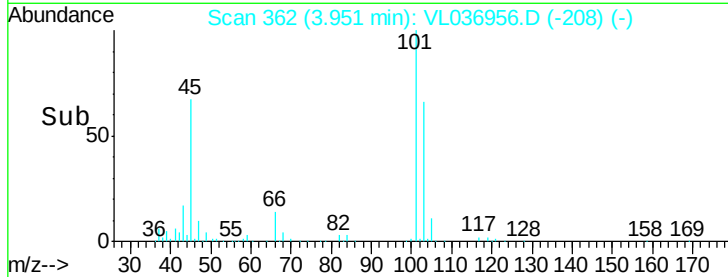
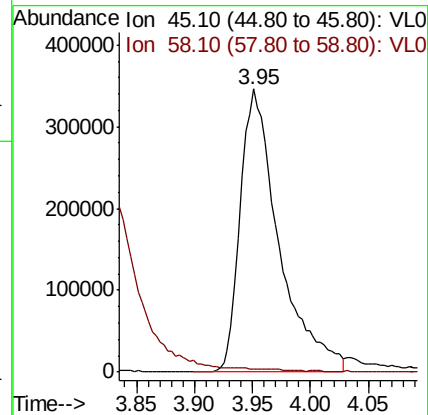
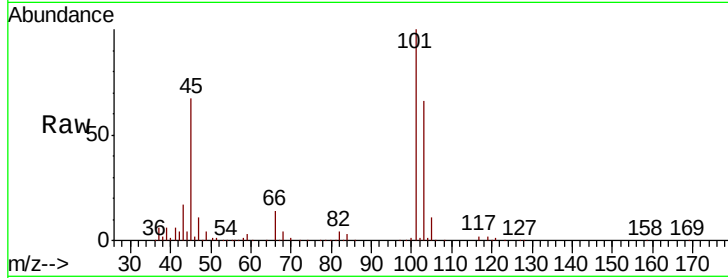
45 100

58 56.1 37.2 55.8#

Manual Integrations
APPROVED

MMDadoda

5/20/2021 5:54:25 PM



#20

Methylene Chloride

Concen: 7.848 ppbv m

RT: 4.33 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Tgt Ion: 84 Resp: 798710

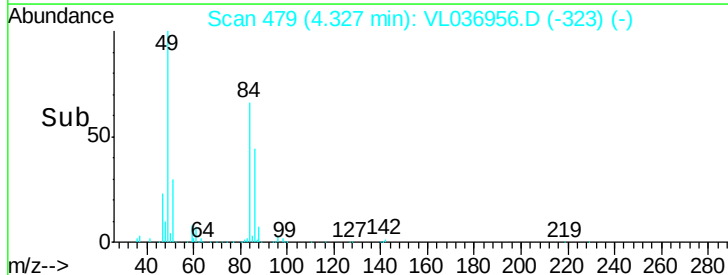
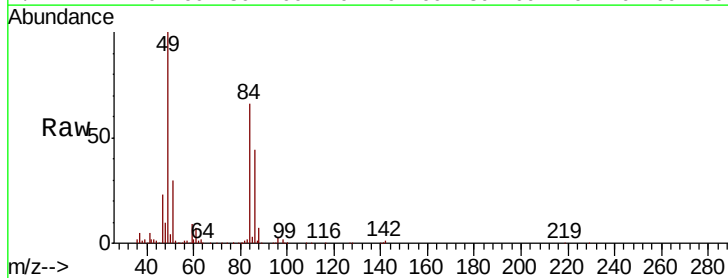
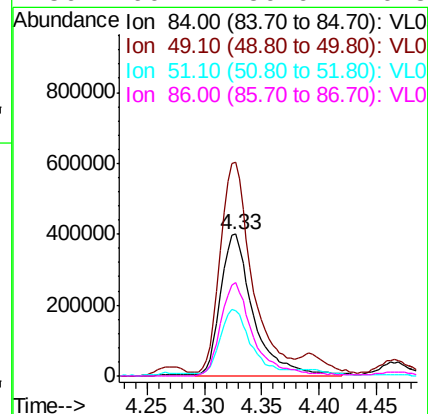
Ion Ratio Lower Upper

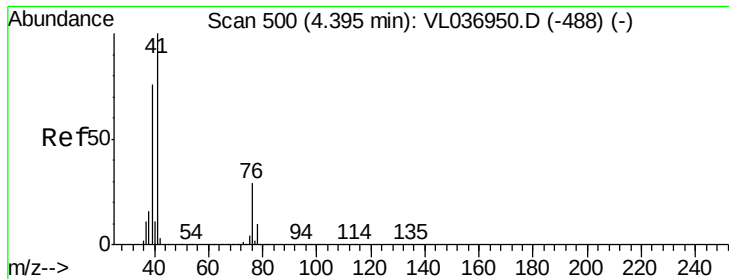
84 100

49 150.9 119.8 179.6

51 46.0 35.1 52.7

86 66.4 50.9 76.3





#21

Allvl Chloride

Concen: 15.627 ppbv

RT: 4.39 min Scan# 500

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1433992

Ion Ratio Lower Upper

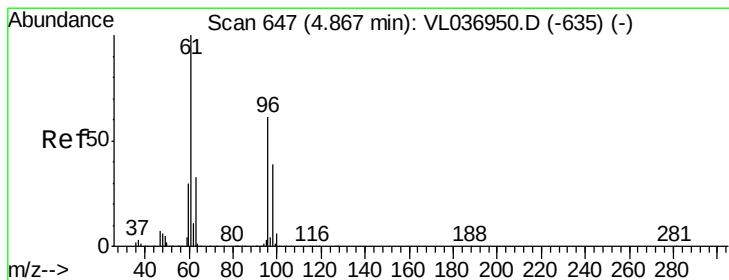
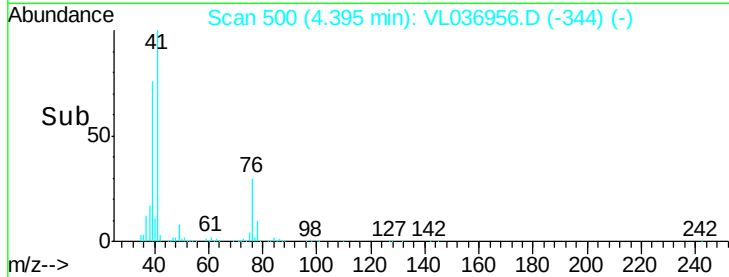
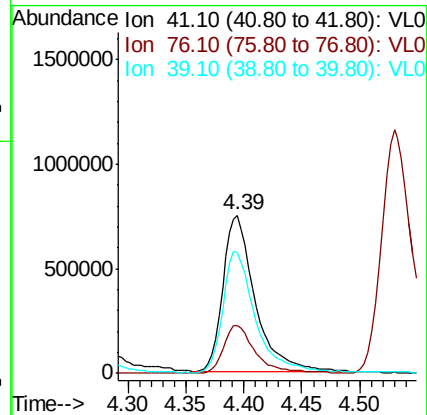
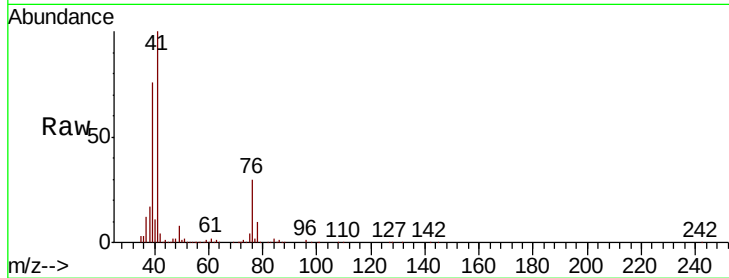
41 100

76 30.7 24.9 37.3

39 79.2 63.7 95.5

Manual Integrations
APPROVED

MMDadoda
5/20/2021 5:54:25 PM



#22

trans-1,2-Dichloroethene

Concen: 16.123 ppbv

RT: 4.86 min Scan# 646

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

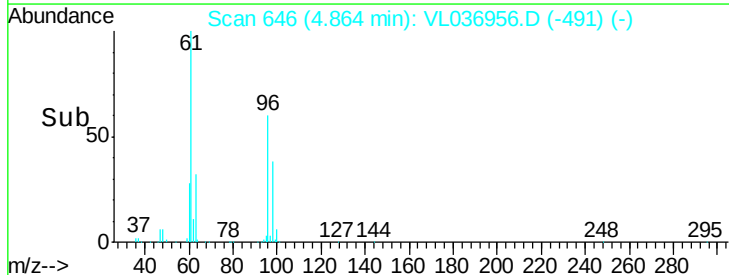
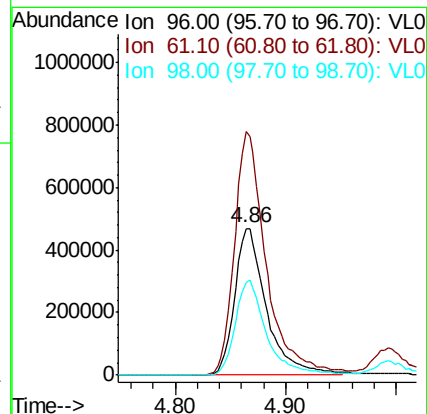
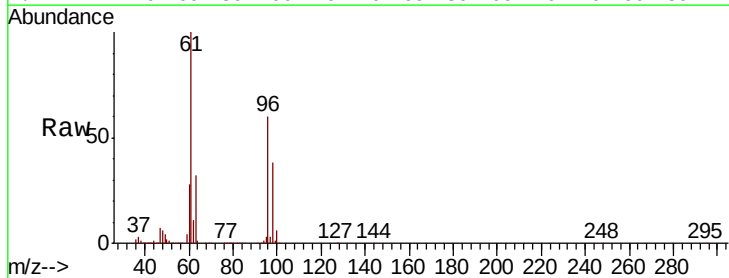
Tgt Ion: 96 Resp: 935661

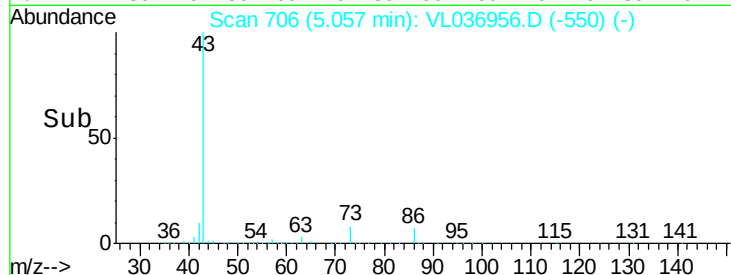
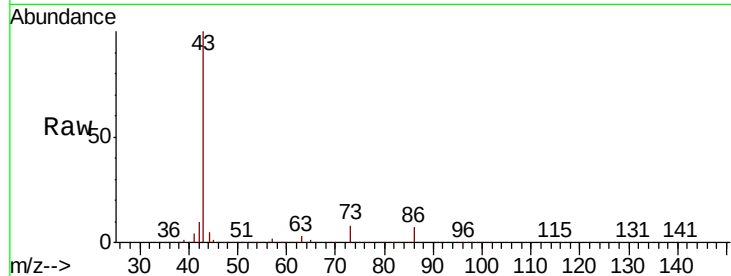
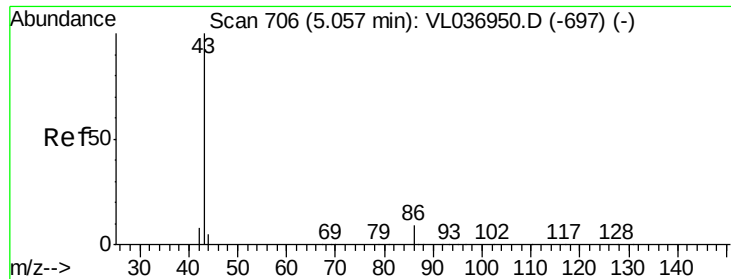
Ion Ratio Lower Upper

96 100

61 166.0 130.6 196.0

98 63.2 50.8 76.2





#23

Vinyl Acetate

Concen: 17.522 ppbv

RT: 5.06 min Scan# 706

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Tot Ion: 43 Resp: 3105811

Ion Ratio Lower Upper

43 100

86 7.2 5.8 8.8

42 9.6 7.4 11.2

44 4.6 3.3 4.9

Instrument :

MSVOA_L

ClientSampleId :

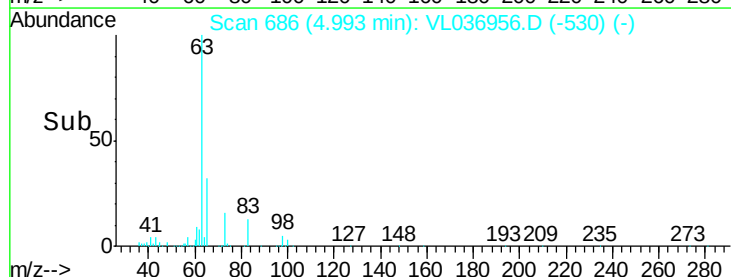
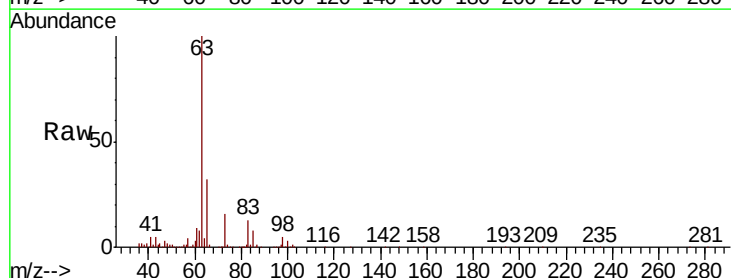
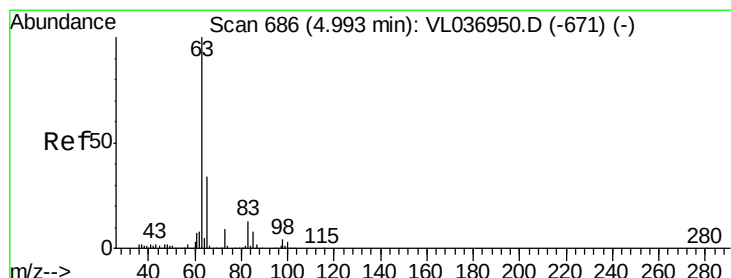
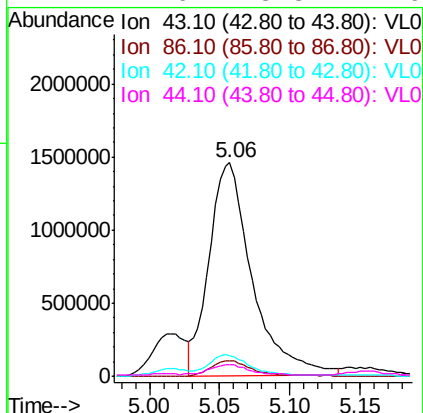
VSTDIC015

Manual Integrations

APPROVED

MMDadoda

5/20/2021 5:54:25 PM



#24

1,1-Dichloroethane

Concen: 14.880 ppbv

RT: 4.99 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

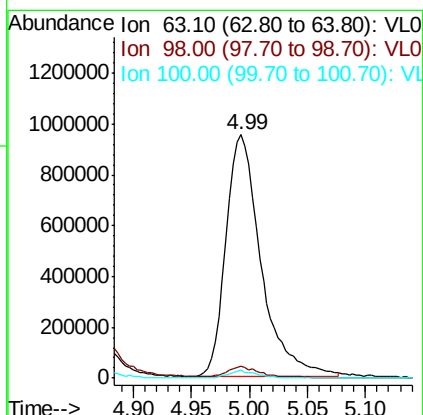
Tgt Ion: 63 Resp: 2004154

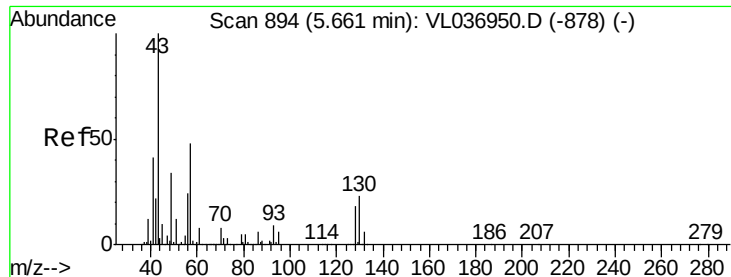
Ion Ratio Lower Upper

63 100

98 4.5 2.3 6.9

100 3.0 1.4 4.0





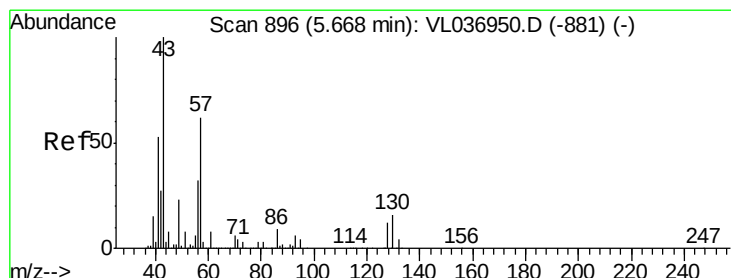
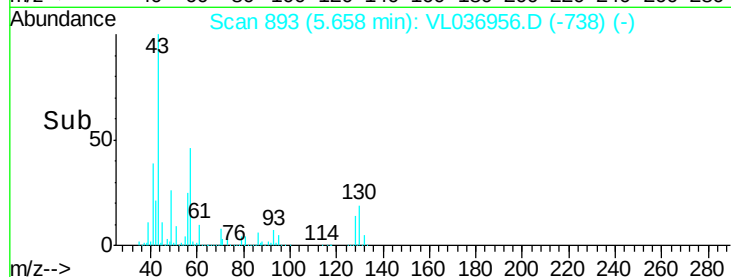
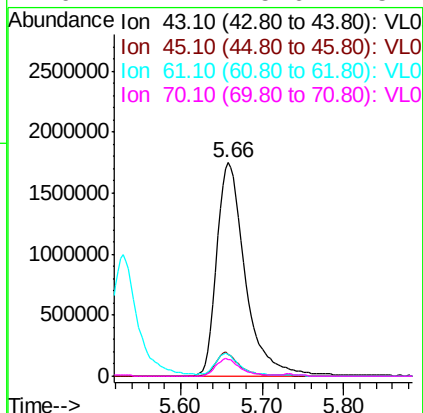
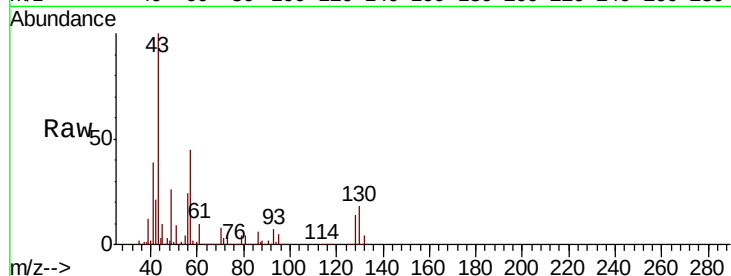
#25
Ethyl Acetate
Concen: 14.036 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.9	7.8	11.8	
61	9.9	7.8	11.8	
70	7.2	5.6	8.4	

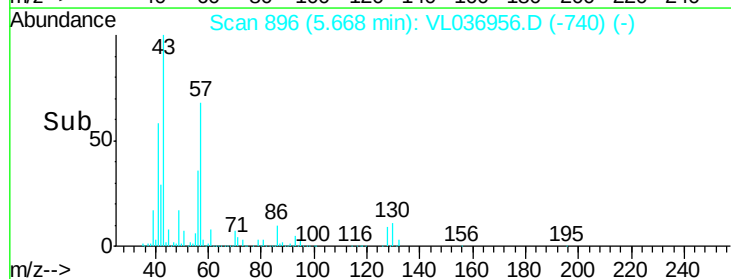
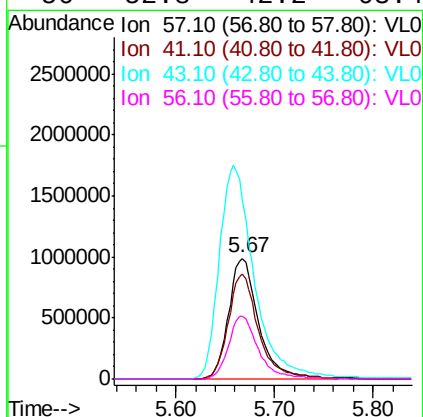
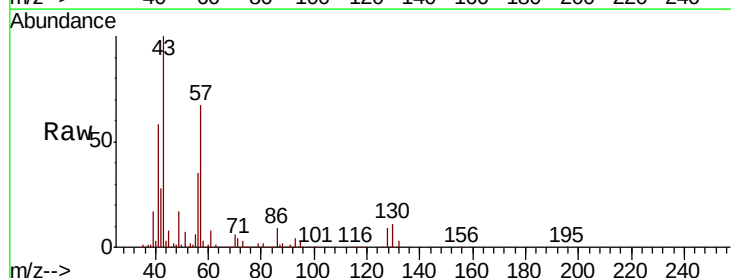
Manual Integrations
APPROVED

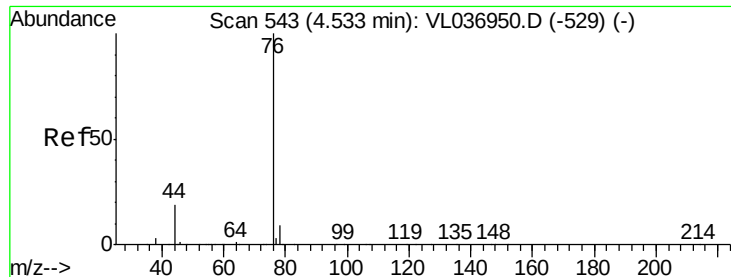
MMDadoda
5/20/2021 5:54:25 PM



#26
Hexane
Concen: 13.338 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	88.3	70.5	105.7	
43	206.1	165.8	248.8	
56	52.8	42.2	63.4	





#27

Carbon Disulfide

Concen: 16.826 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2356111

Ion Ratio Lower Upper

76 100

44 19.4 15.5 23.3

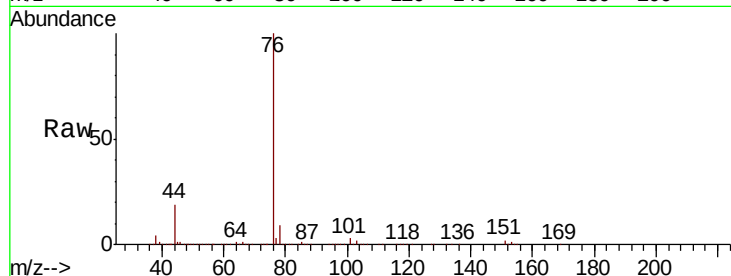
78 9.9 7.8 11.6

Manual Integrations

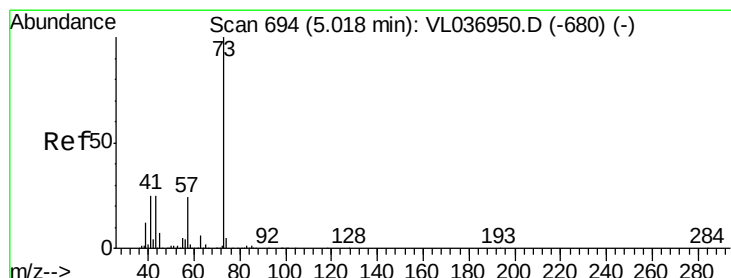
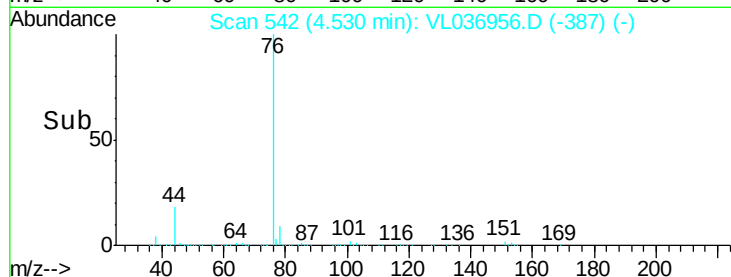
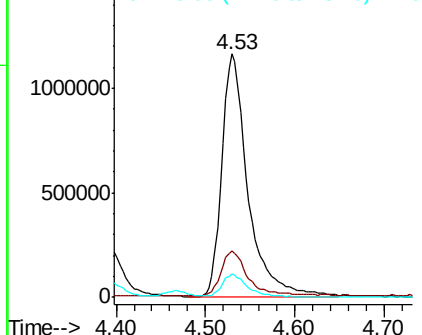
APPROVED

MMDadoda

5/20/2021 5:54:25 PM



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: 16.794 ppbv

RT: 5.02 min Scan# 693

Delta R.T. -0.00 min

Lab File: VL036956.D

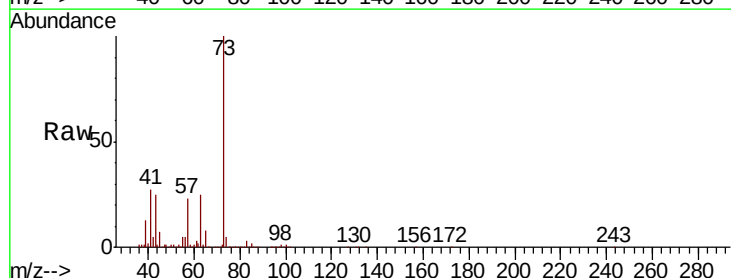
Acq: 18 May 2021 5:47

Tgt Ion: 73 Resp: 2566179

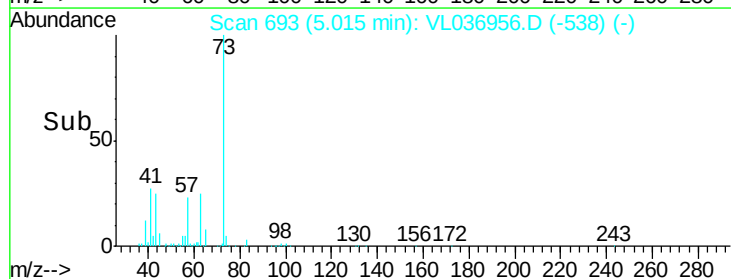
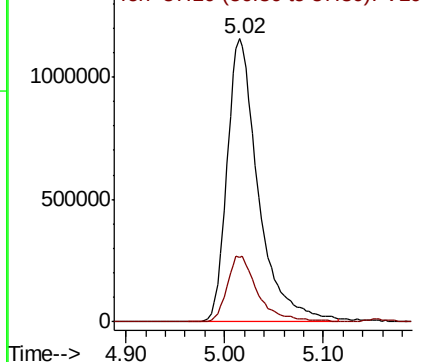
Ion Ratio Lower Upper

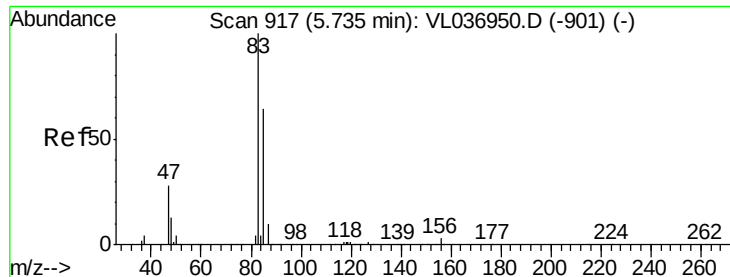
73 100

57 23.0 18.3 27.5



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





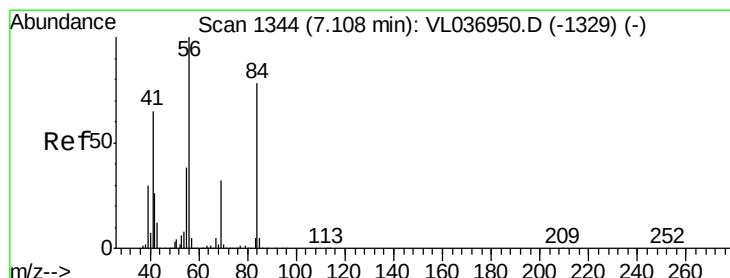
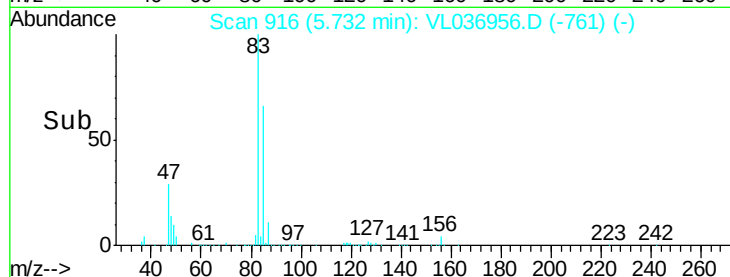
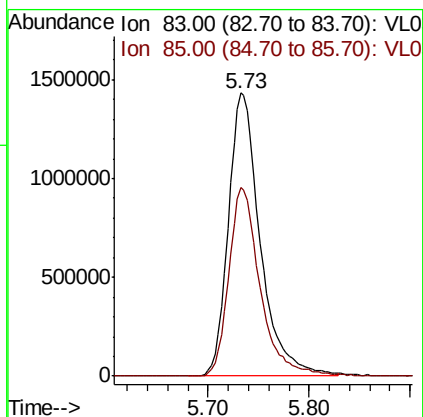
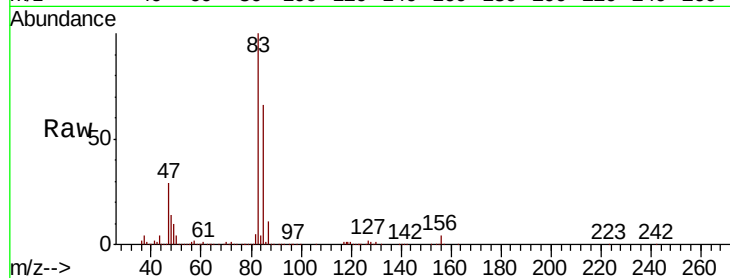
#29
Chloroform
Concen: 13.295 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3154562
Ion Ratio Lower Upper
83 100
85 66.2 51.1 76.7

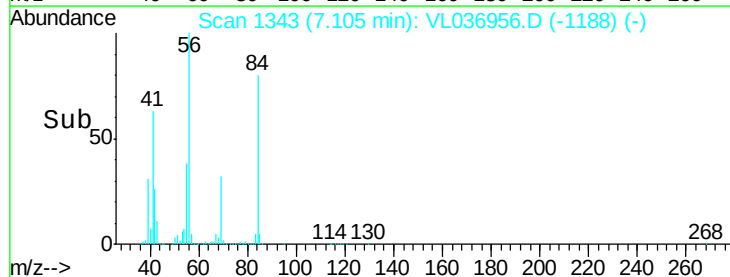
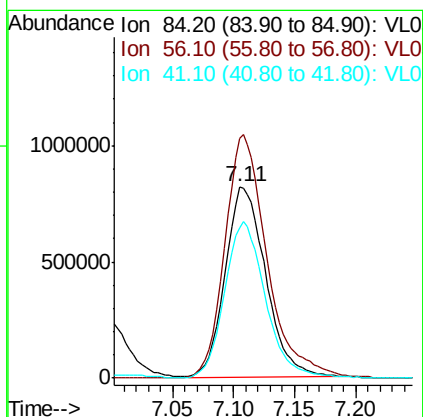
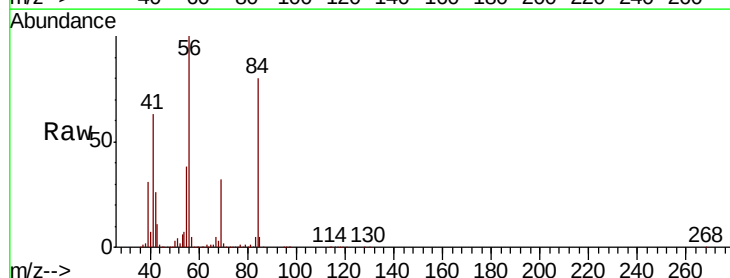
Manual Integrations
APPROVED

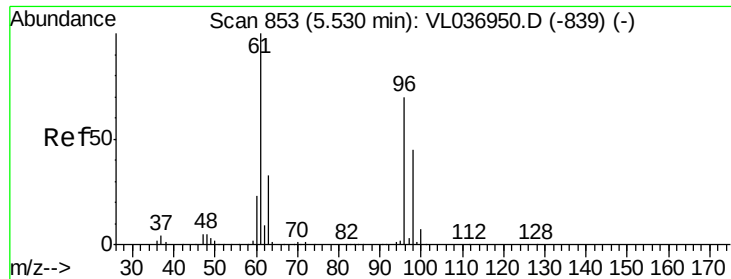
MMDadoda
5/20/2021 5:54:25 PM



#30
Cyclohexane
Concen: 15.630 ppbv
RT: 7.11 min Scan# 1343
Delta R.T. -0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion: 84 Resp: 1890673
Ion Ratio Lower Upper
84 100
56 134.2 107.9 161.9
41 83.6 65.5 98.3





#31

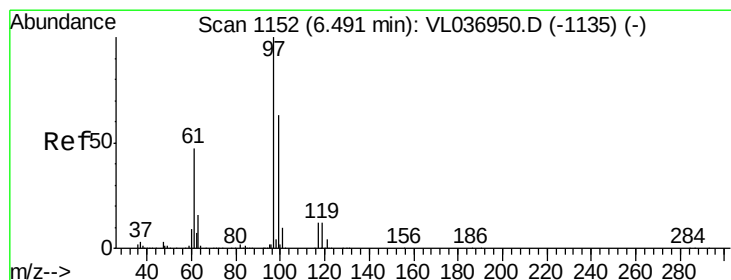
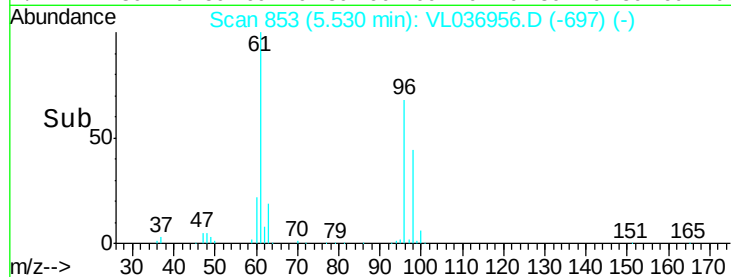
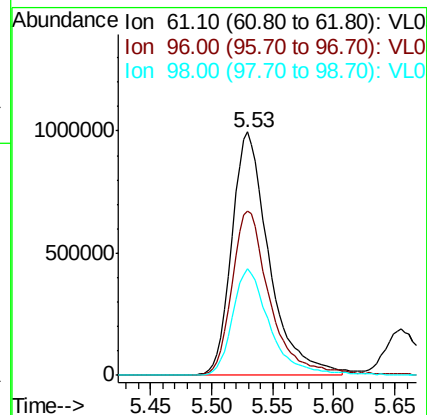
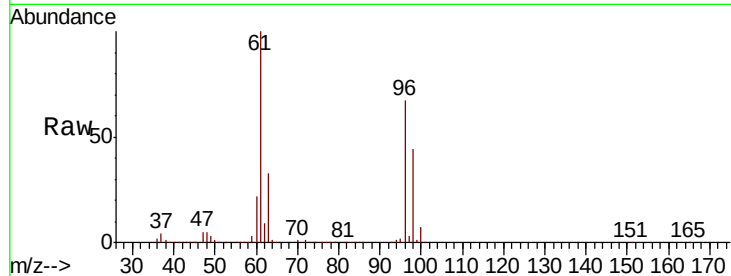
cis-1,2-Dichloroethene
Concen: 17.052 ppbv
RT: 5.53 min Scan# 853
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:	61	Resp:	2112604
Ion	Ratio	Lower	Upper
61	100		
96	67.5	55.9	83.9
98	43.8	35.6	53.4

Manual Integrations
APPROVED

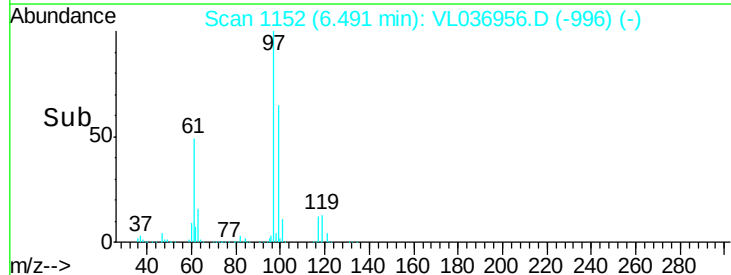
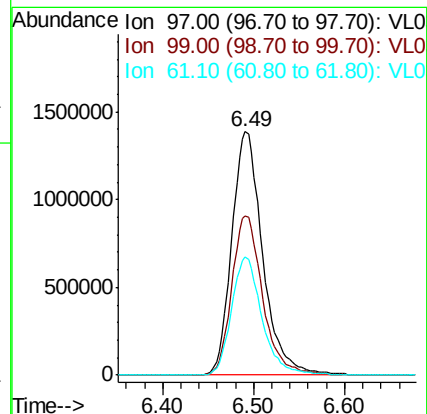
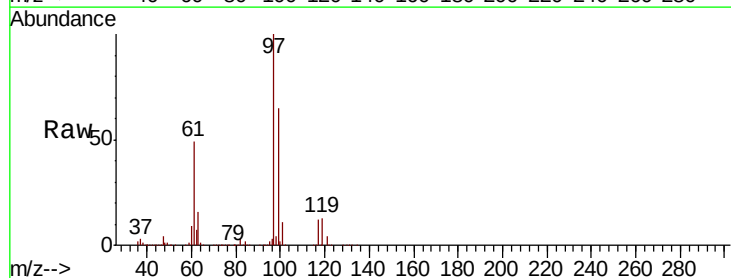
MMDadoda
5/20/2021 5:54:25 PM

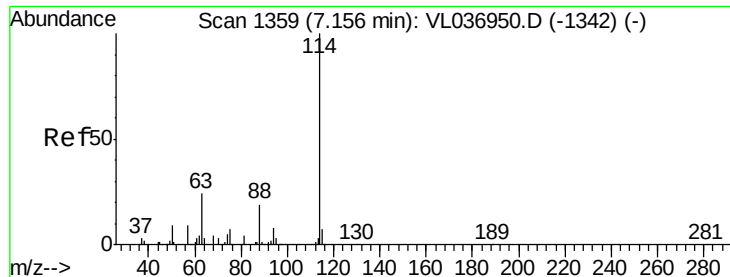


#32

1,1,1-Trichloroethane
Concen: 12.948 ppbv
RT: 6.49 min Scan# 1152
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion:	97	Resp:	3274872
Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.9	77.9
61	47.9	37.6	56.4





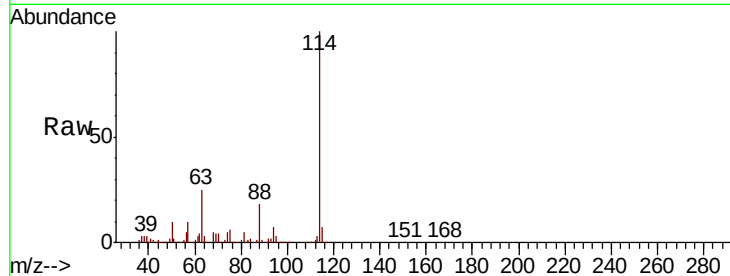
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

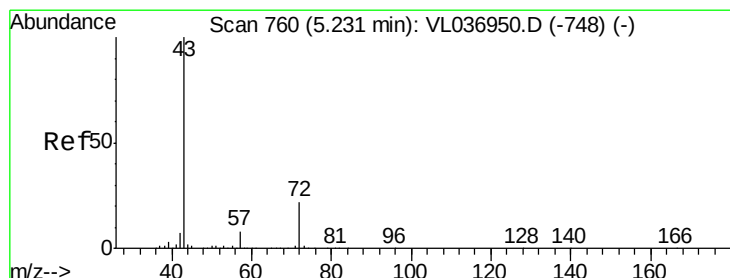
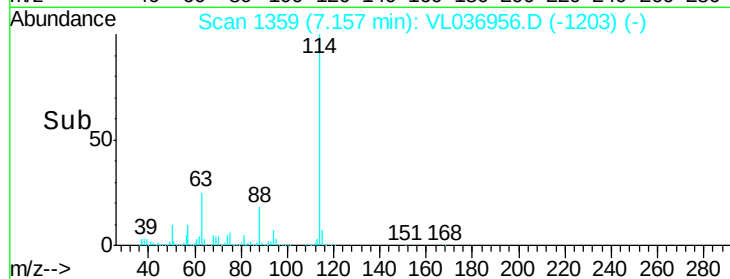
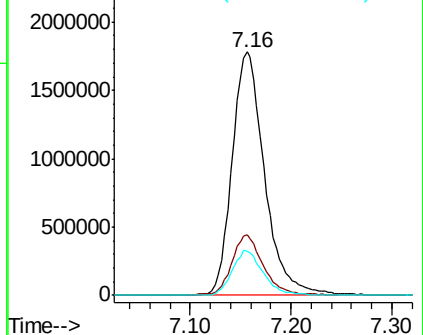
Tot Ion:114 Resp: 3979744
 Ion Ratio Lower Upper
 114 100
 63 24.4 19.6 29.4
 88 17.9 14.6 21.8

Manual Integrations
 APPROVED

MMDadoda
 5/20/2021 5:54:25 PM

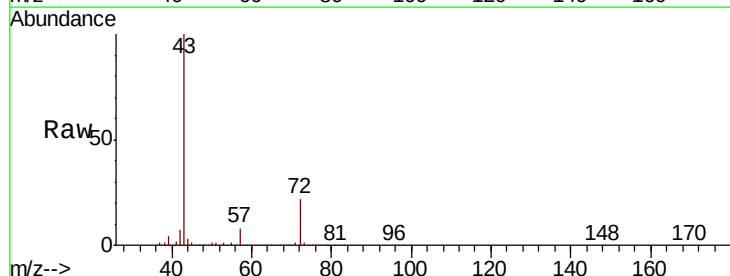


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

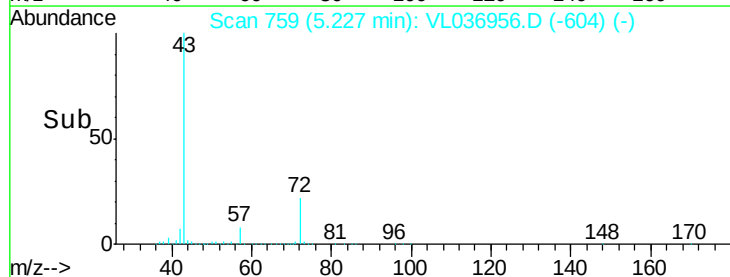
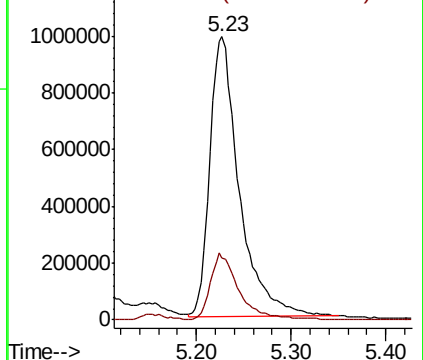


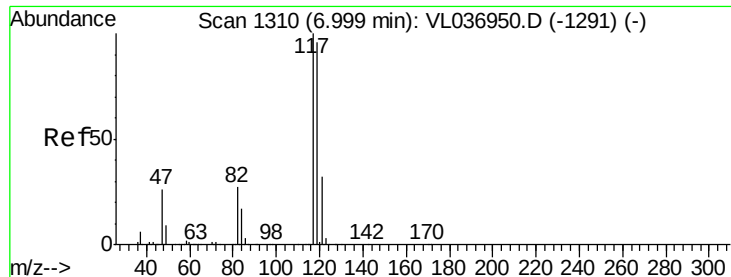
#34
 2-Butanone
 Concen: 14.112 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Tgt Ion: 43 Resp: 2147757
 Ion Ratio Lower Upper
 43 100
 72 23.4 19.0 28.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





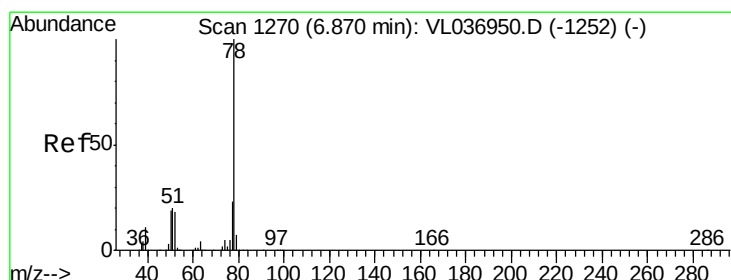
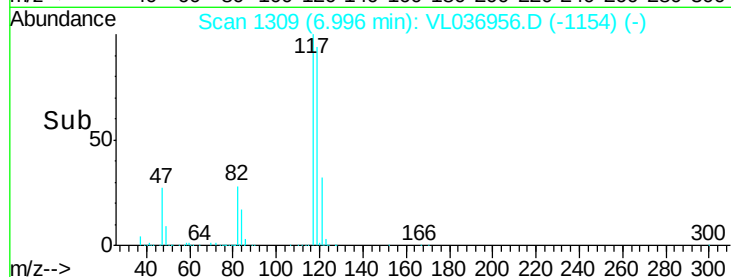
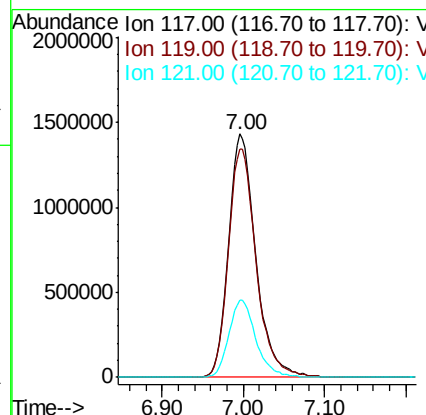
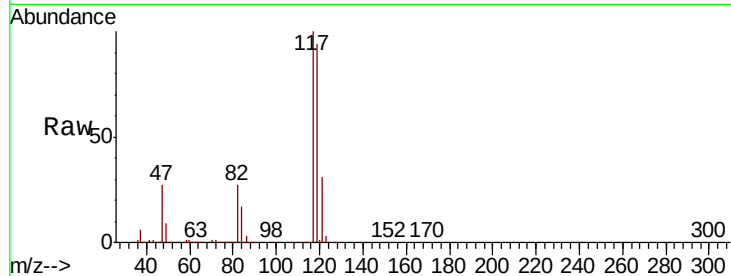
#35
Carbon Tetrachloride
Concen: 10.829 ppbv
RT: 7.00 min Scan# 1309
Delta R.T. -0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.8	76.6	114.8
121	31.5	25.8	38.6

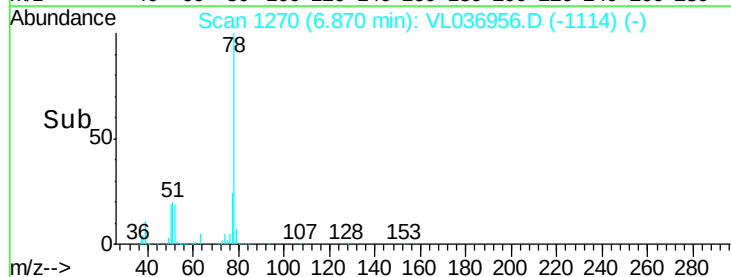
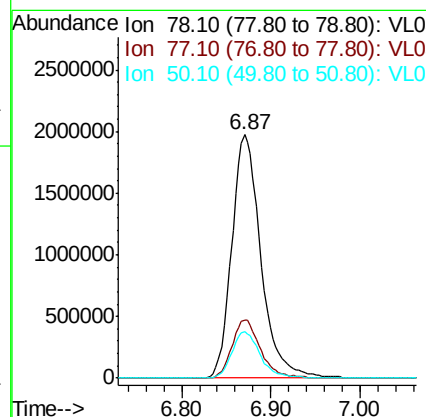
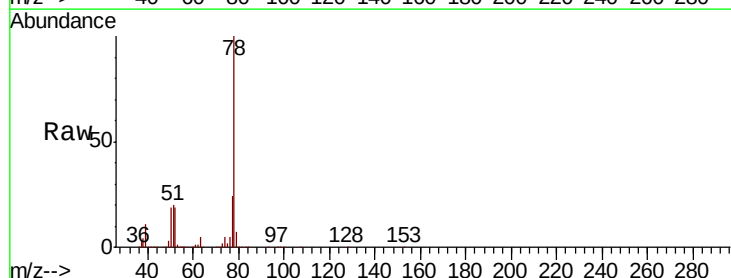
Manual Integrations
APPROVED

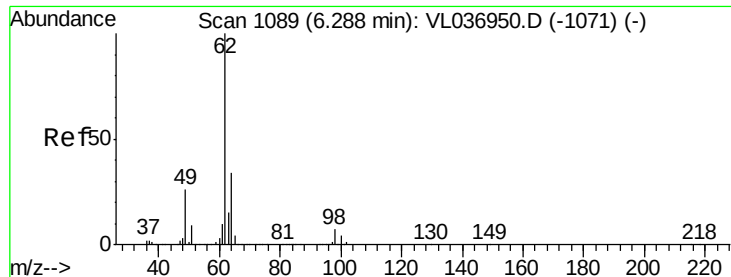
MMDadoda
5/20/2021 5:54:25 PM



#36
Benzene
Concen: 13.963 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.6	28.0
50	18.8	15.0	22.4





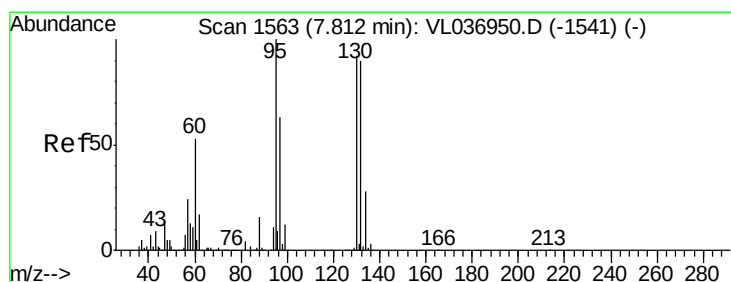
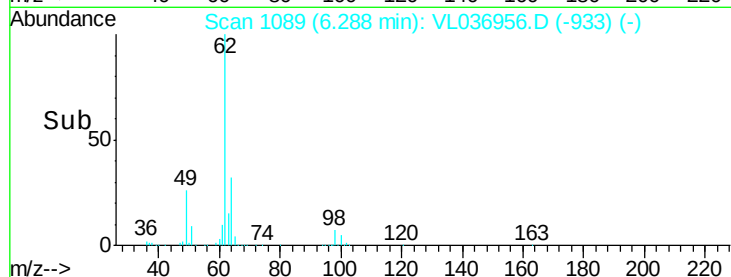
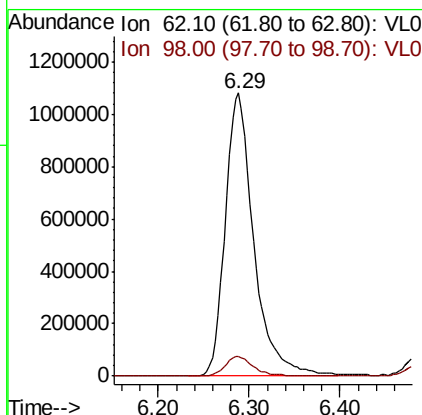
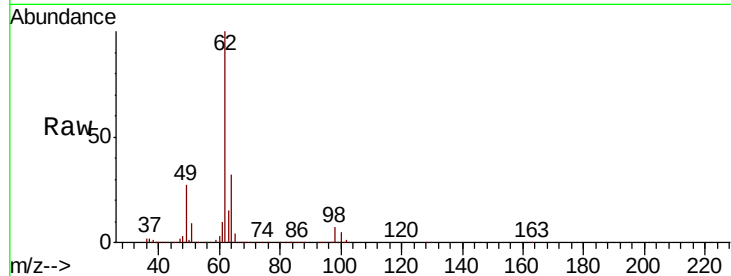
#37
1,2-Dichloroethane
Concen: 12.434 ppbv
RT: 6.29 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
62	100		
98	7.1	5.5	8.3

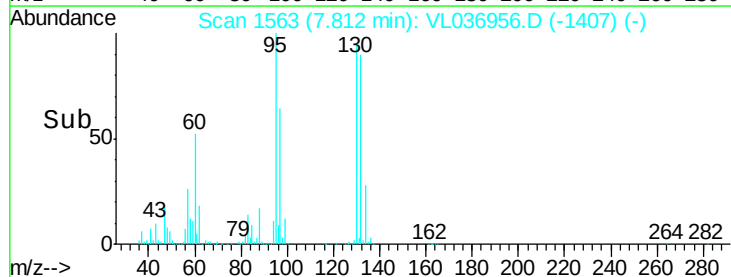
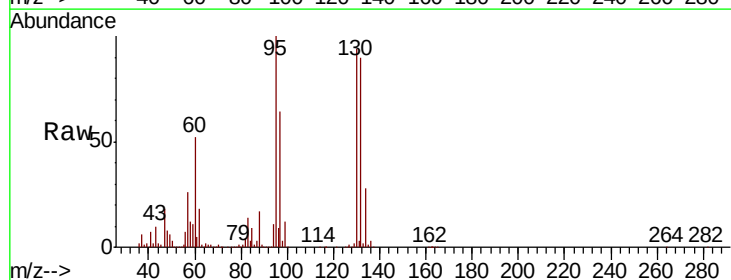
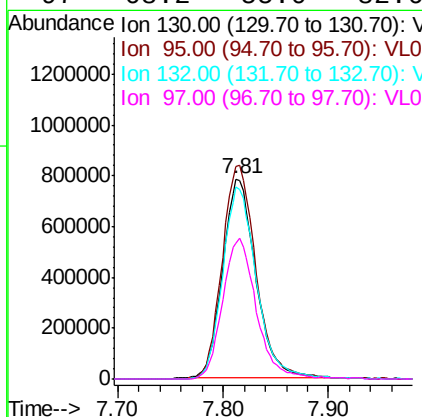
Manual Integrations
APPROVED

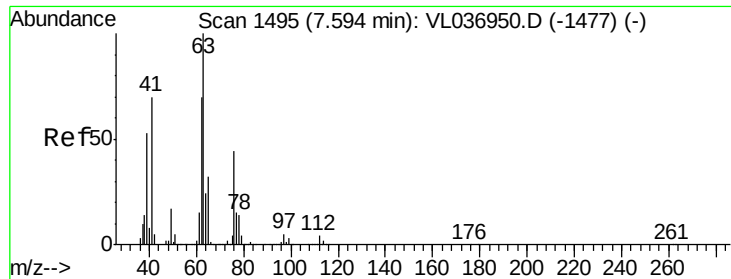
MMDadoda
5/20/2021 5:54:25 PM



#38
Trichloroethene
Concen: 12.969 ppbv
RT: 7.81 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion	Ratio	Lower	Upper
130	100		
95	106.9	86.9	130.3
132	96.5	78.4	117.6
97	68.2	55.0	82.6





#39

1,2-Dichloropropane

Concen: 13.399 ppbv

RT: 7.59 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1754784

Ion Ratio Lower Upper

63 100

41 67.2 55.7 83.5

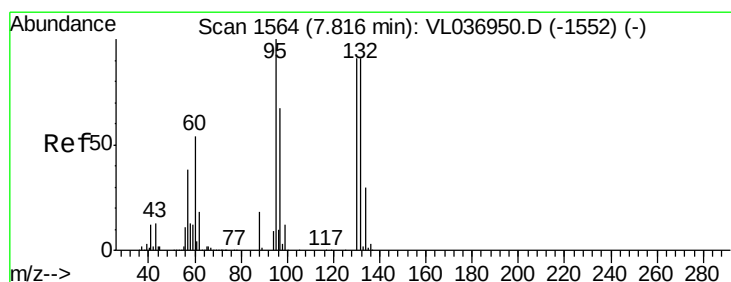
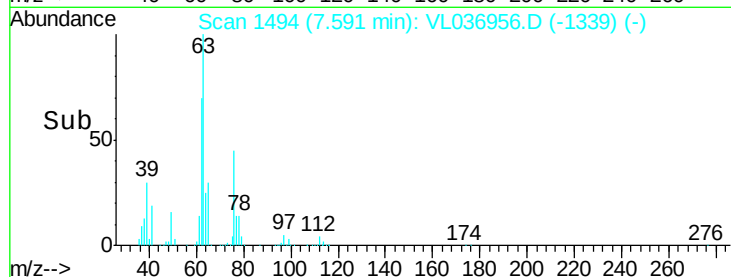
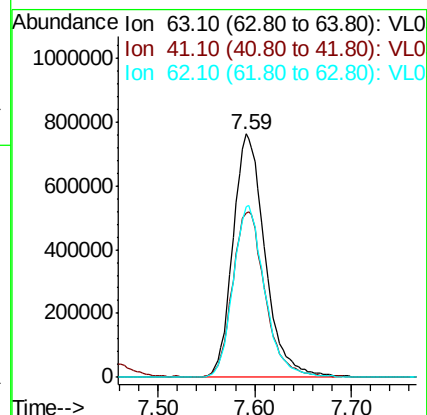
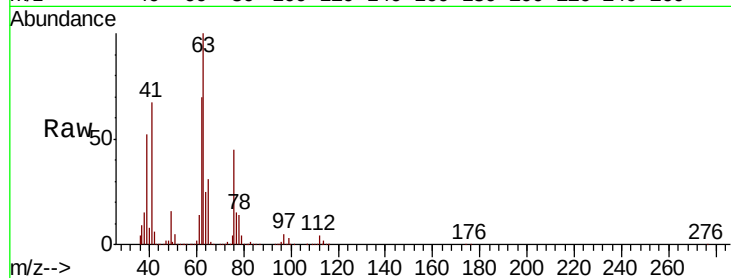
62 70.3 56.2 84.4

Manual Integrations

APPROVED

MMDadoda

5/20/2021 5:54:25 PM



#40

1,4-Dioxane

Concen: 9.805 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Tgt Ion: 88 Resp: 334877

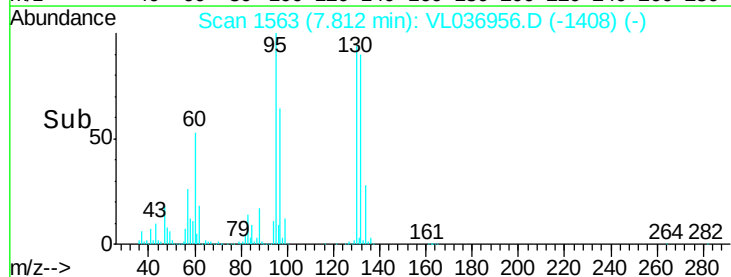
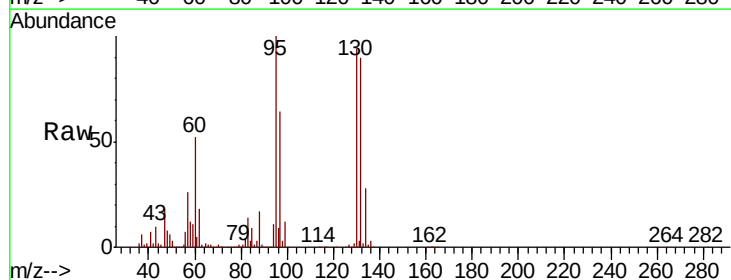
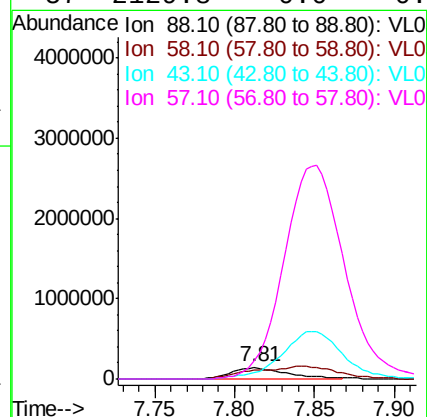
Ion Ratio Lower Upper

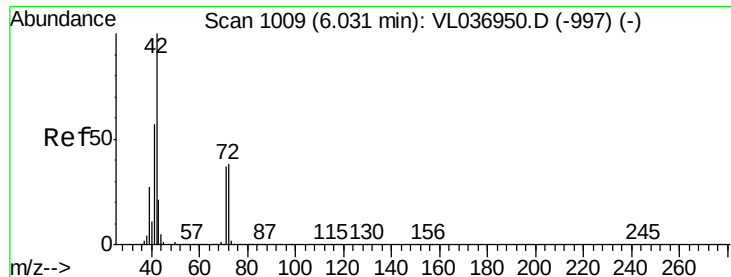
88 100

58 179.6 0.0 0.0#

43 478.5 0.0 0.0#

57 2129.8 0.0 0.0#





#41

Tetrahydrofuran

Concen: 18.245 ppbv

RT: 6.03 min Scan# 1008

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1133978

Ion Ratio Lower Upper

42 100

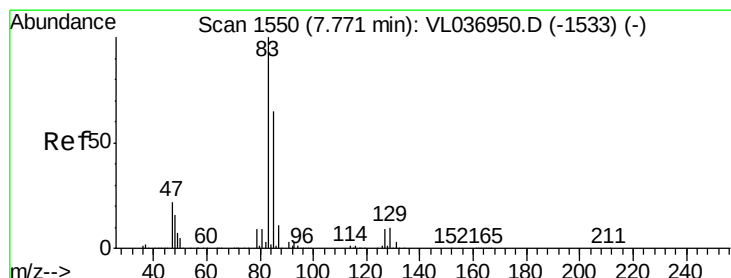
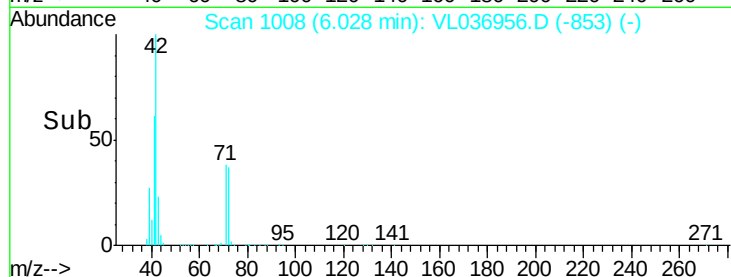
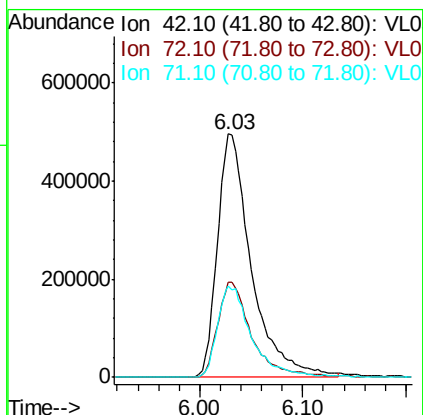
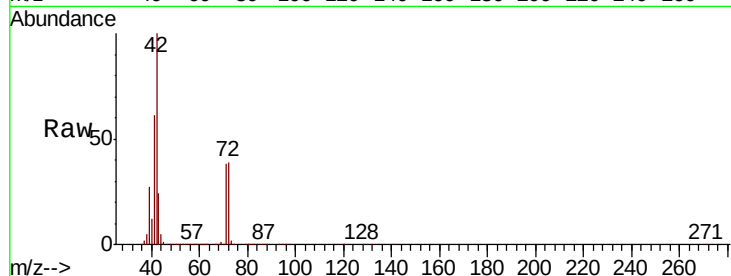
72 39.4 31.4 47.2

71 38.4 30.4 45.6

Manual Integrations
APPROVED

MMDadoda

5/20/2021 5:54:25 PM



#42

Bromodichloromethane

Concen: 12.568 ppbv

RT: 7.77 min Scan# 1550

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

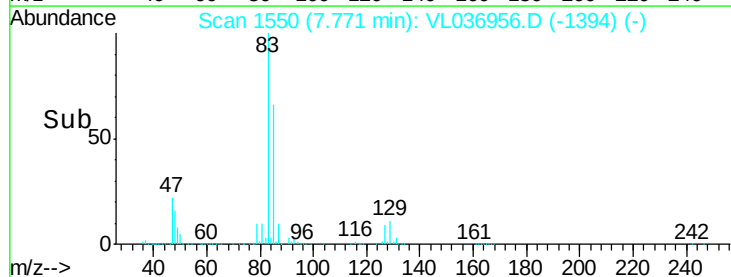
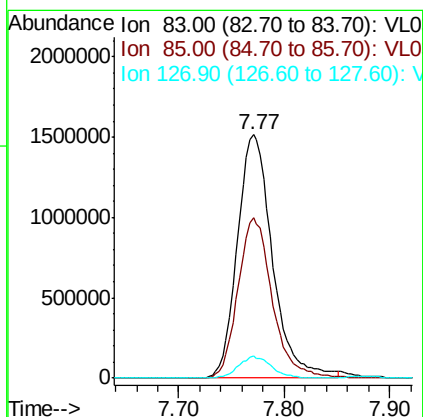
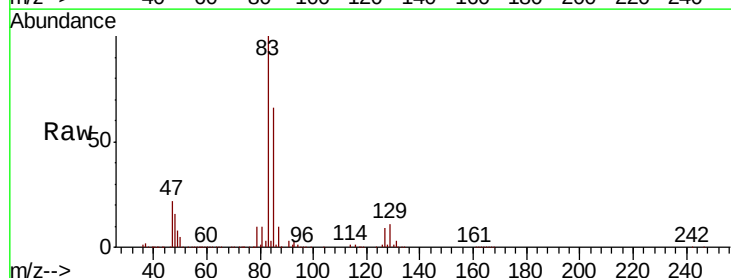
Tgt Ion: 83 Resp: 3509476

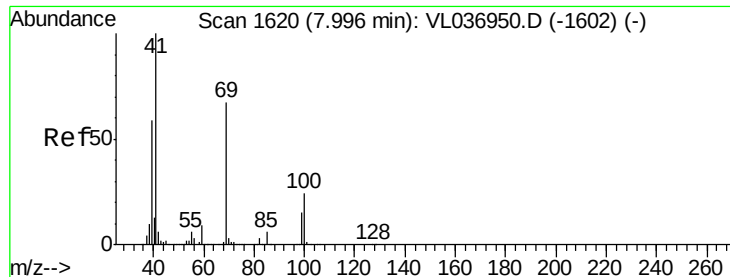
Ion Ratio Lower Upper

83 100

85 65.7 51.7 77.5

127 8.9 6.9 10.3





#43

Methyl Methacrylate

Concen: 17.718 ppbv

RT: 7.99 min Scan# 1619

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 69 Resp: 1648541

Ion Ratio Lower Upper

69 100

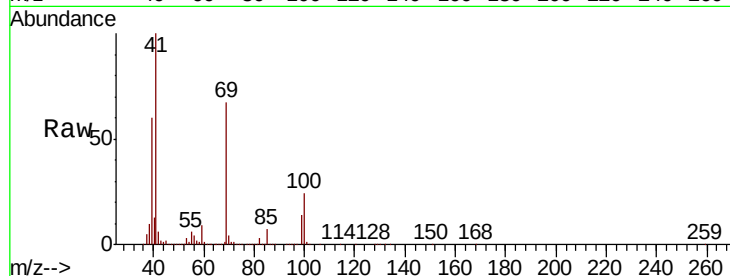
41 148.5 118.6 178.0

100 35.6 28.2 42.4

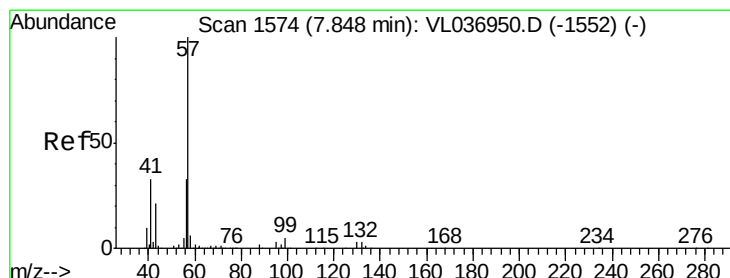
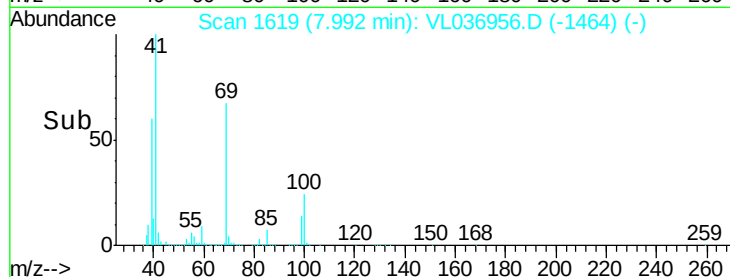
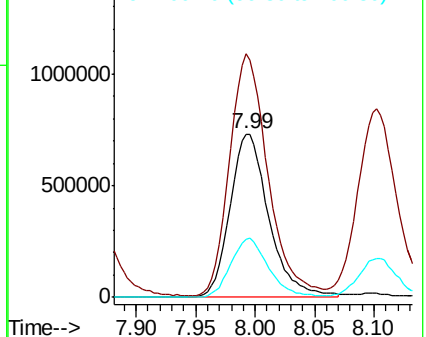
Manual Integrations
APPROVED

MMDadoda

5/20/2021 5:54:25 PM



Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 12.546 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

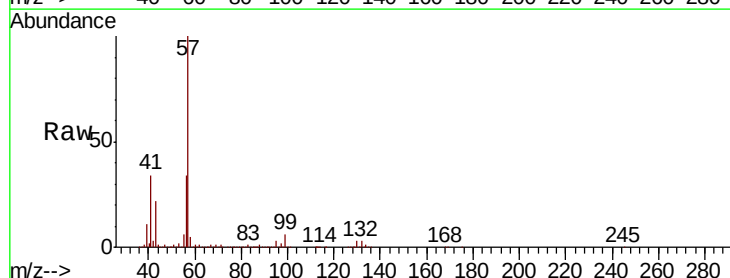
Tgt Ion: 57 Resp: 7130166

Ion Ratio Lower Upper

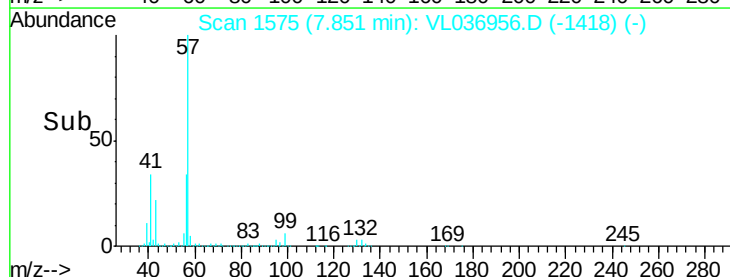
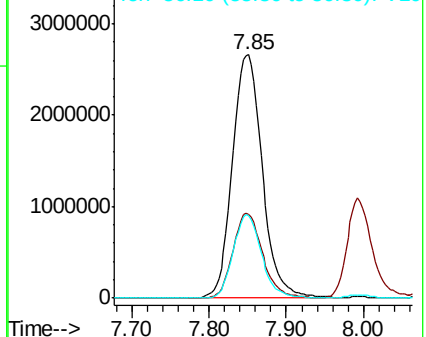
57 100

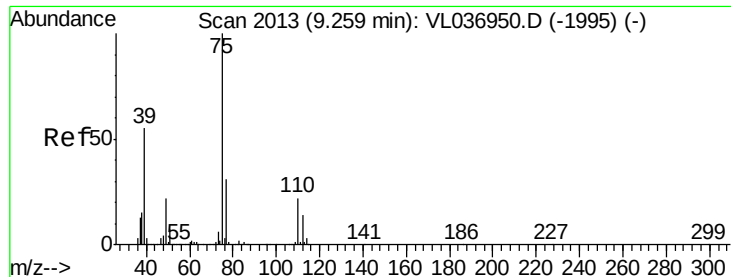
41 34.3 27.0 40.4

56 32.5 25.4 38.2



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 16.658 ppbv

RT: 9.26 min Scan# 2012

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 1399577

Ion Ratio Lower Upper

75 100

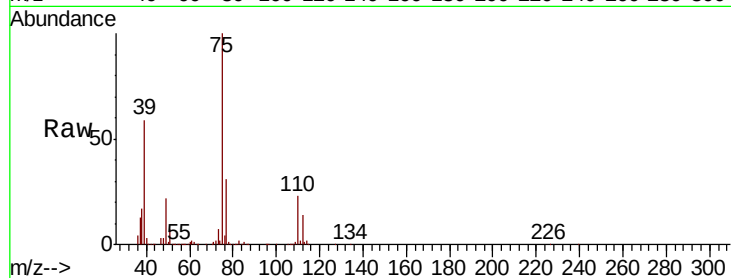
77 30.7 24.4 36.6

Manual Integrations

APPROVED

MMDadoda

5/20/2021 5:54:25 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.26

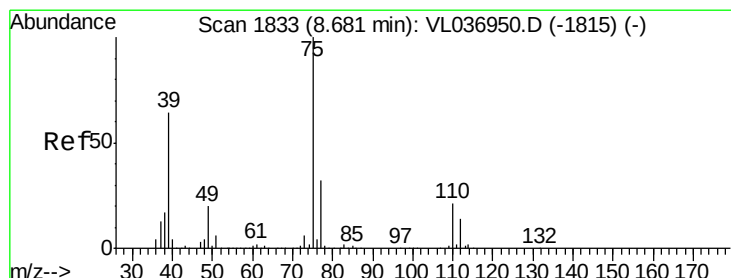
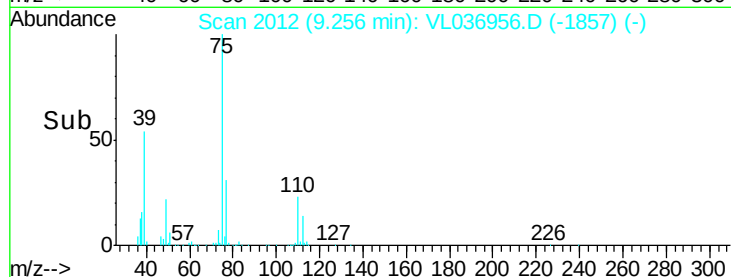
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 14.935 ppbv

RT: 8.68 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

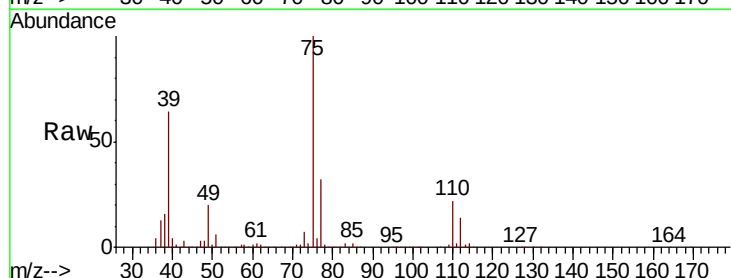
Tgt Ion: 75 Resp: 1756978

Ion Ratio Lower Upper

75 100

39 63.6 51.5 77.3

77 31.6 25.9 38.9



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

1000000

800000

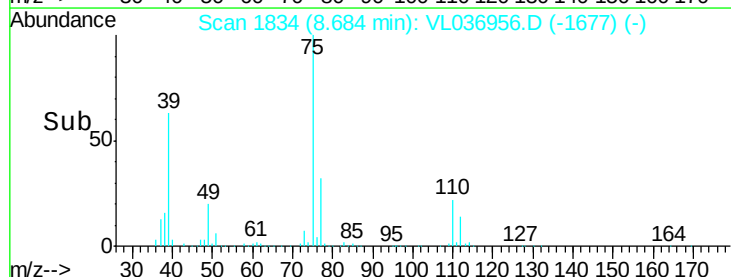
600000

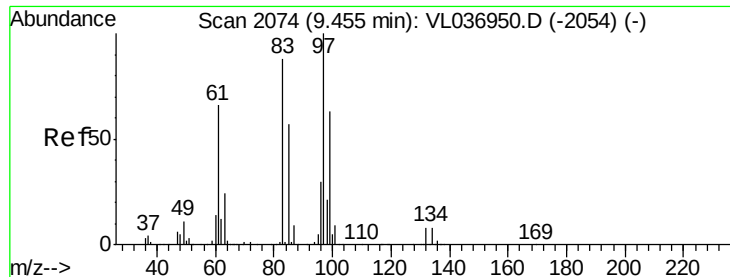
400000

200000

0

Time-->





#47
 1,1,2-Trichloroethane
 Concen: 12.830 ppbv
 RT: 9.46 min Scan# 2074
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

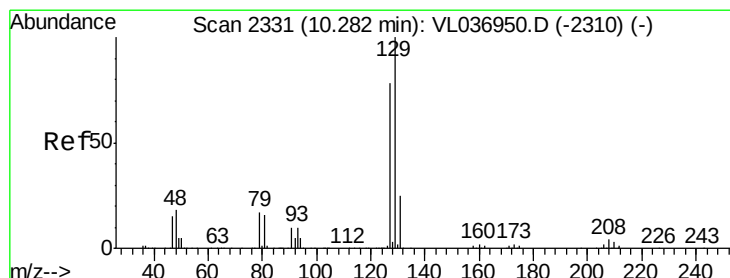
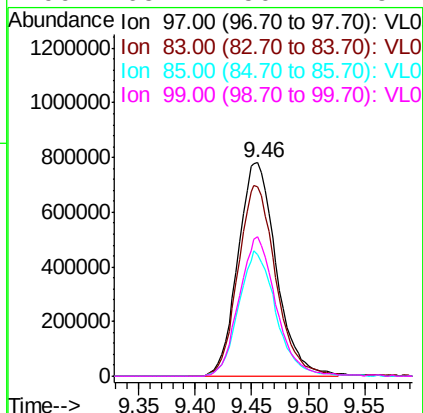
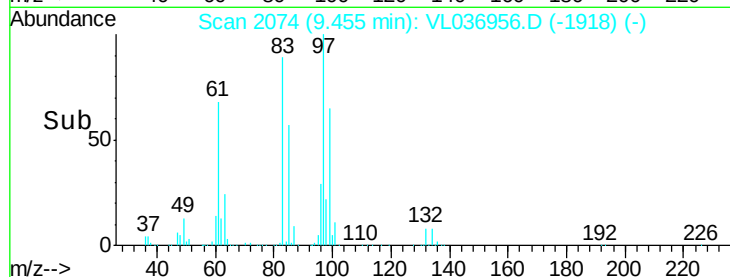
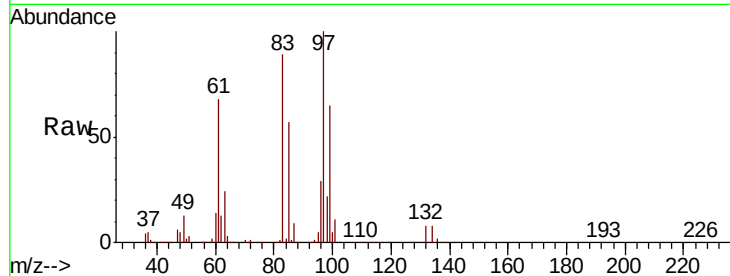
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 97 Resp: 1842824

Ion	Ratio	Lower	Upper
97	100		
83	88.7	70.4	105.6
85	56.9	45.5	68.3
99	65.1	50.2	75.2

Manual Integrations
 APPROVED

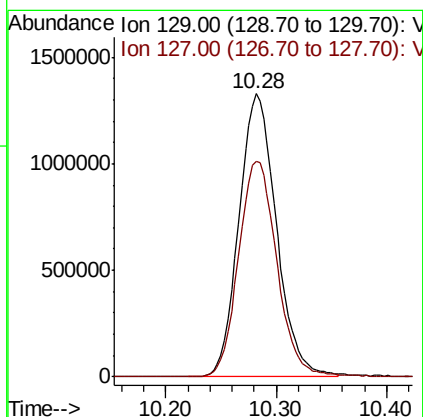
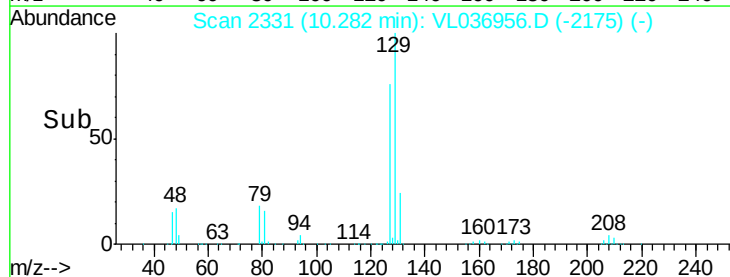
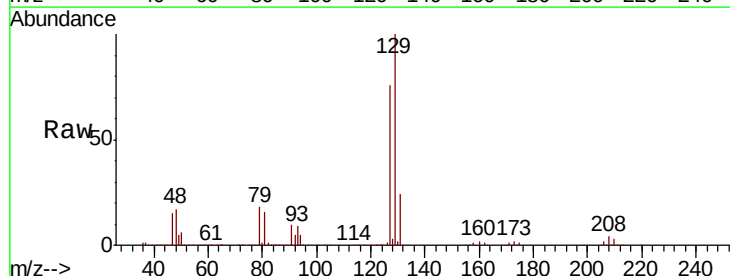
MMDadoda
 5/20/2021 5:54:25 PM

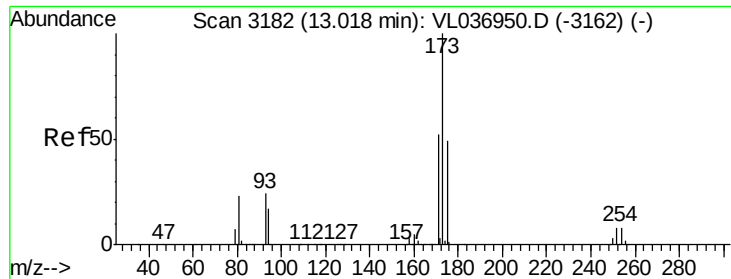


#48
 Dibromochloromethane
 Concen: 14.497 ppbv
 RT: 10.28 min Scan# 2331
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Tgt Ion: 129 Resp: 3132569

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.3	117.8





#49

Bromoform

Concen: 15.021 ppbv

RT: 13.02 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2671872

Ion Ratio Lower Upper

173 100

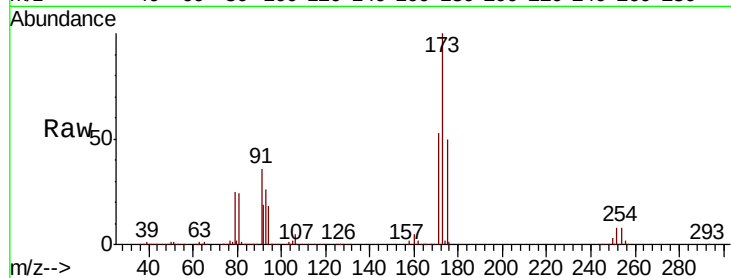
175 50.0 40.4 60.6

171 53.6 42.6 64.0

Manual Integrations
APPROVED

MMDadoda

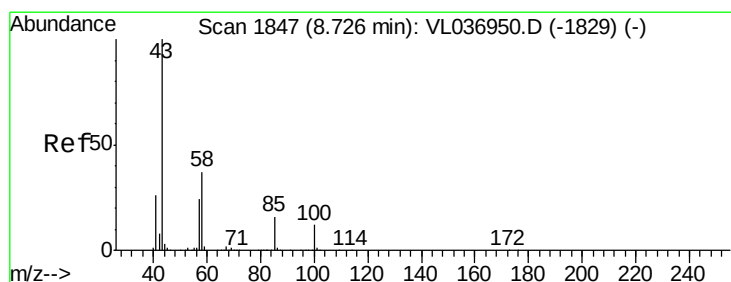
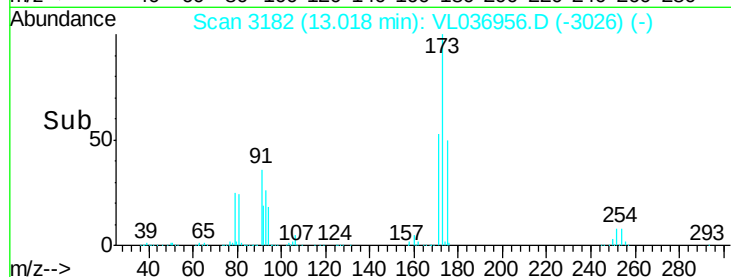
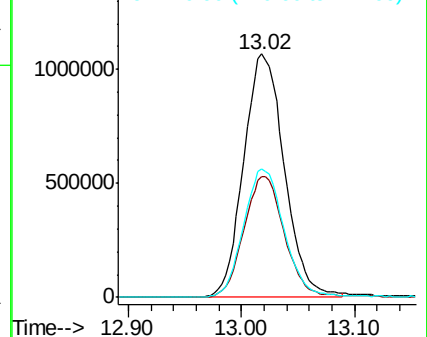
5/20/2021 5:54:25 PM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 15.660 ppbv

RT: 8.72 min Scan# 1845

Delta R.T. -0.01 min

Lab File: VL036956.D

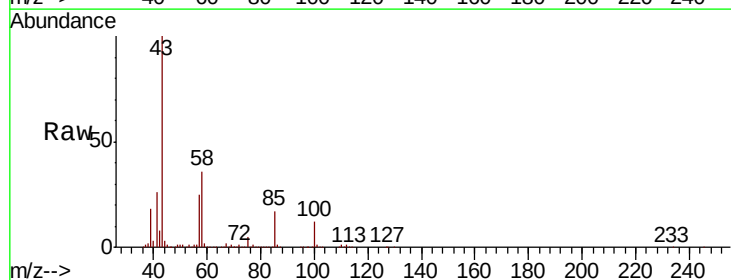
Acq: 18 May 2021 5:47

Tgt Ion: 43 Resp: 3261767

Ion Ratio Lower Upper

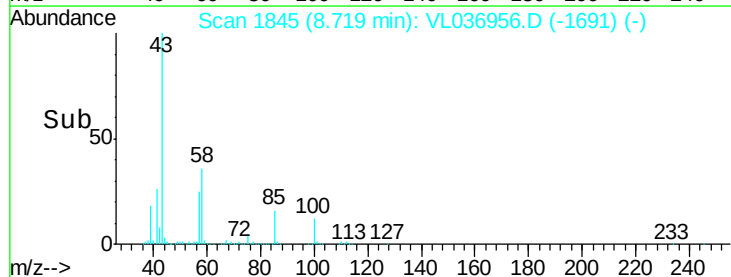
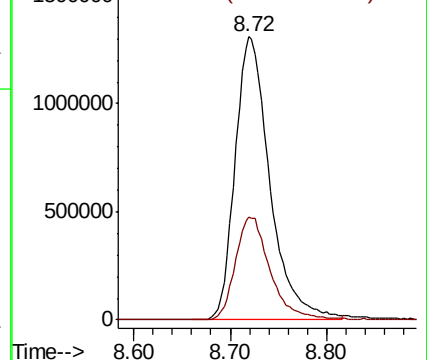
43 100

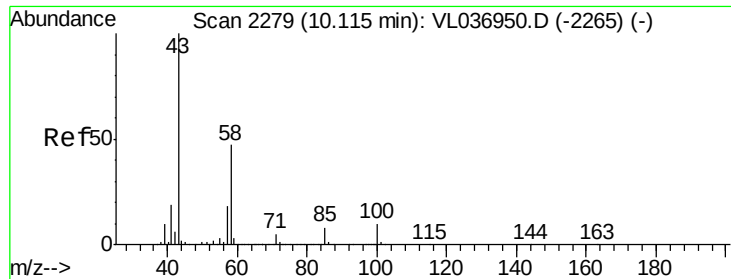
58 36.9 29.4 44.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 20.598 ppbv

RT: 10.11 min Scan# 2279

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1828133

Ion Ratio Lower Upper

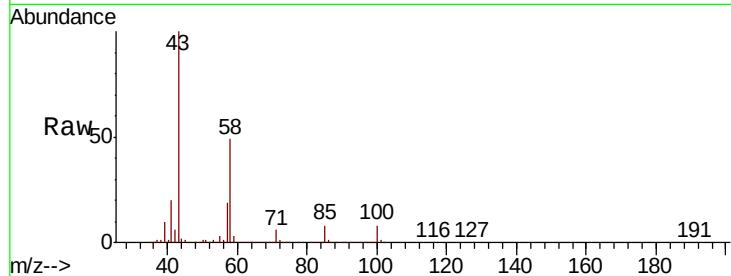
43 100

58 50.8 41.1 61.7

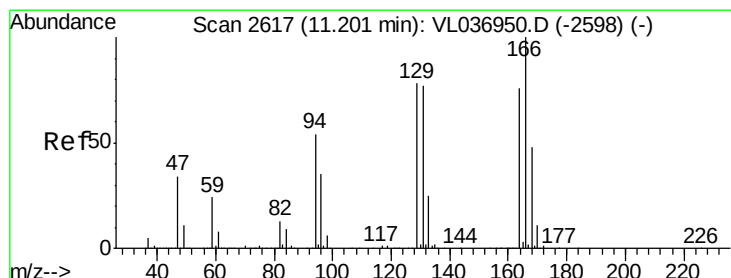
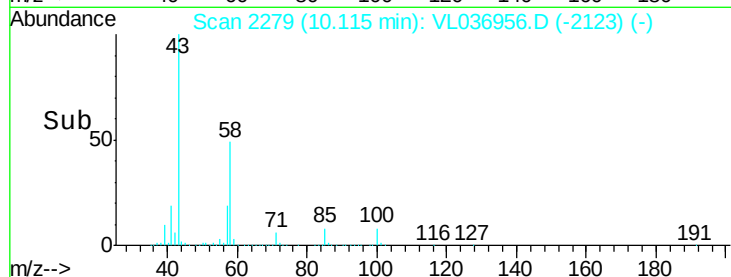
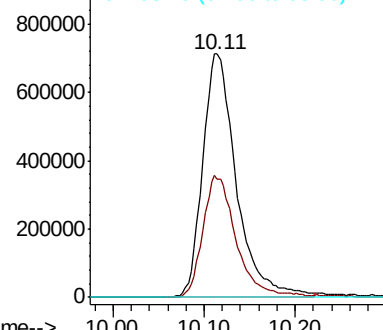
98 0.1 0.1 0.1#

Manual Integrations
APPROVED

MMDadoda
5/20/2021 5:54:25 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 14.668 ppbv

RT: 11.20 min Scan# 2617

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Tgt Ion: 164 Resp: 1723528

Ion Ratio Lower Upper

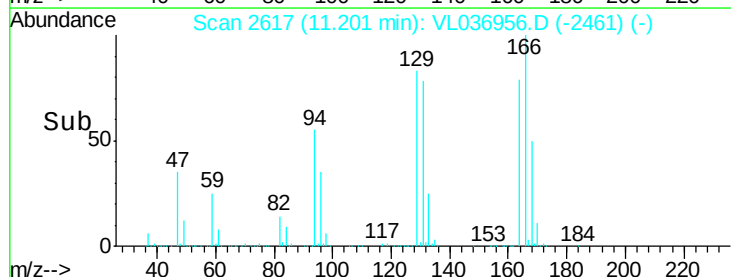
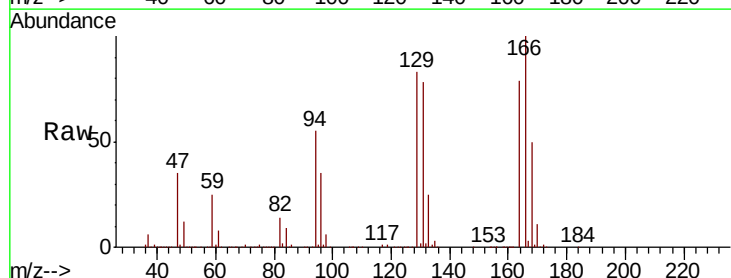
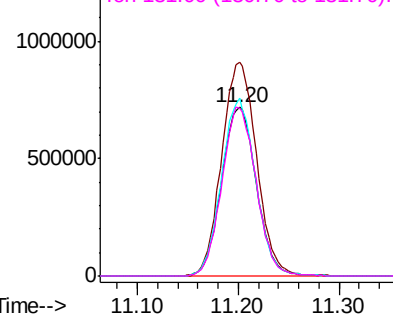
164 100

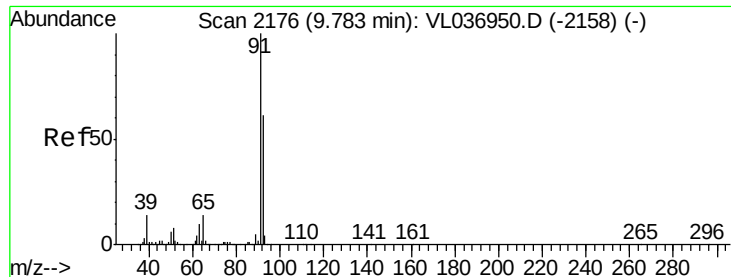
166 126.6 105.5 158.3

129 105.7 81.8 122.8

131 99.3 81.2 121.8

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 16.411 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 5233237

Ion Ratio Lower Upper

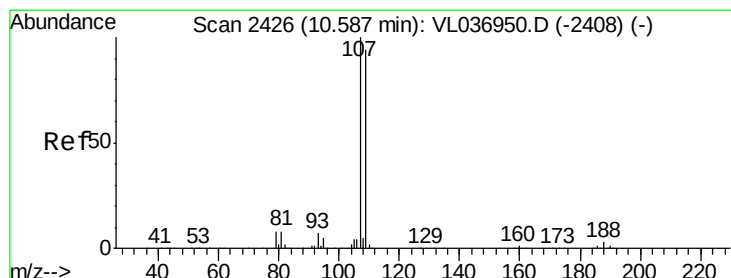
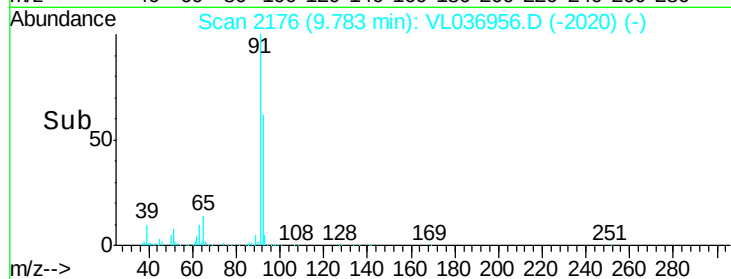
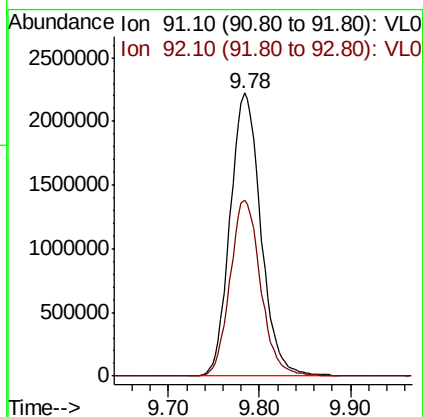
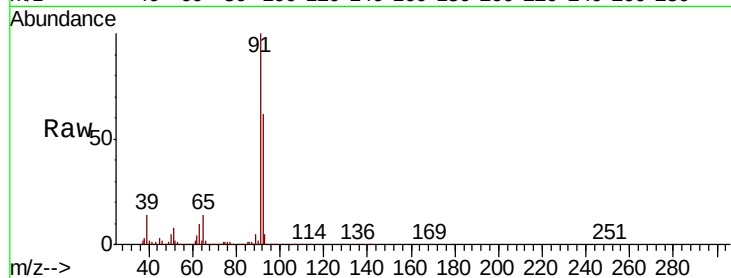
91 100

92 62.1 49.5 74.3

Manual Integrations
APPROVED

MMDadoda

5/20/2021 5:54:25 PM



#54

1,2-Dibromoethane

Concen: 14.282 ppbv

RT: 10.59 min Scan# 2426

Delta R.T. 0.00 min

Lab File: VL036956.D

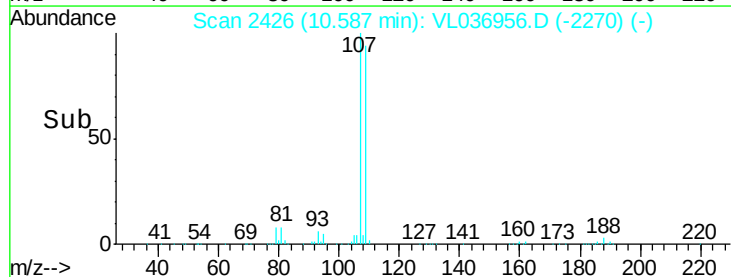
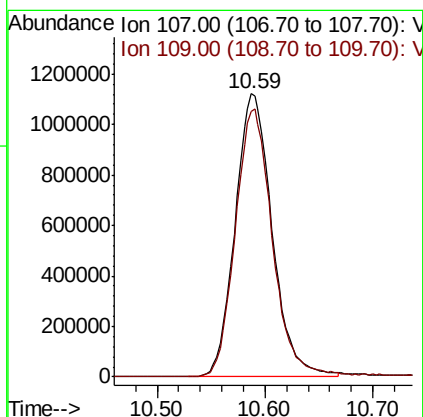
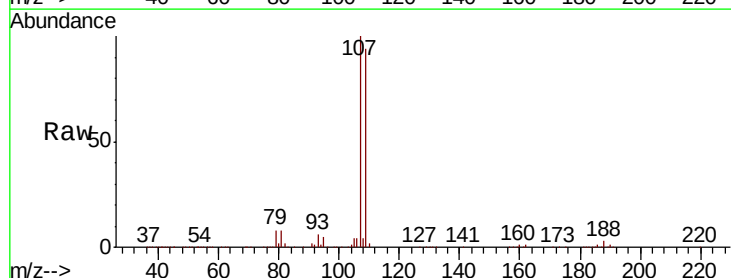
Acq: 18 May 2021 5:47

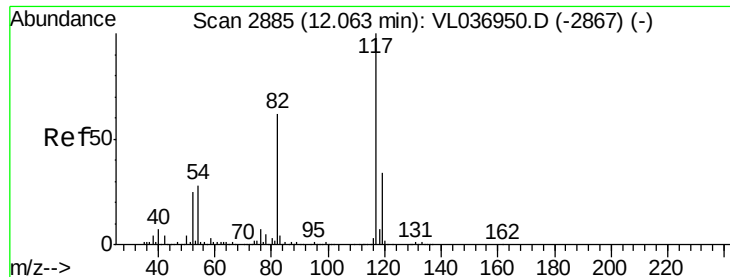
Tgt Ion: 107 Resp: 2678516

Ion Ratio Lower Upper

107 100

109 93.9 75.0 112.4





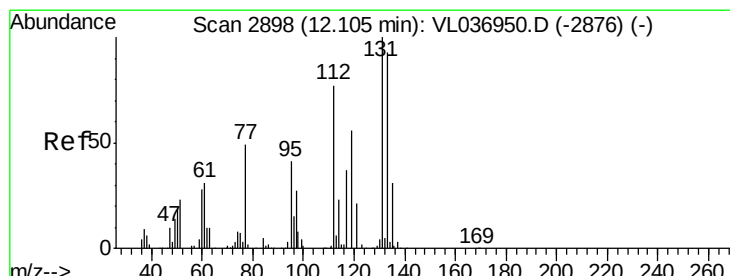
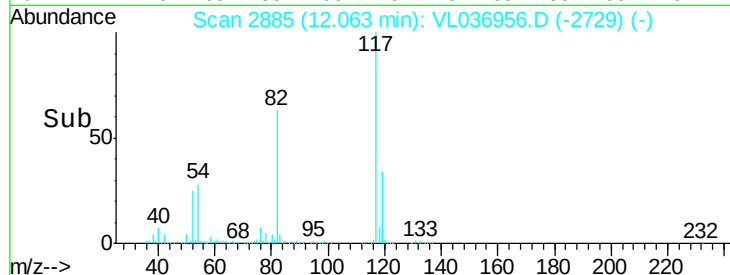
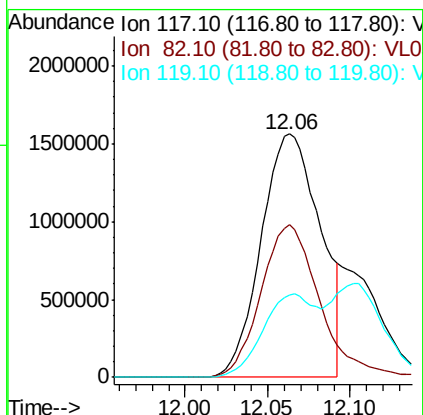
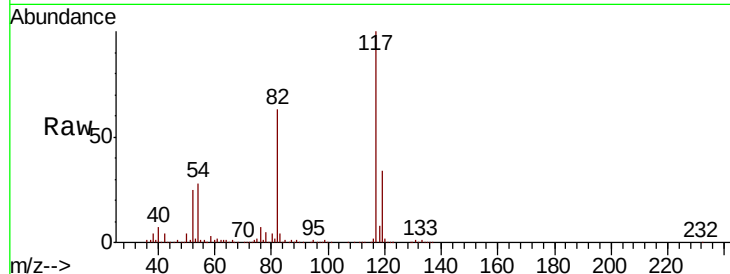
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.06 min Scan# 2885
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 3889871
Ion Ratio Lower Upper
117 100
82 63.0 52.6 79.0
119 33.3 46.6 70.0#

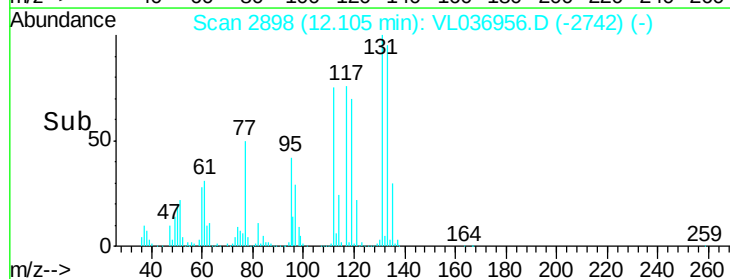
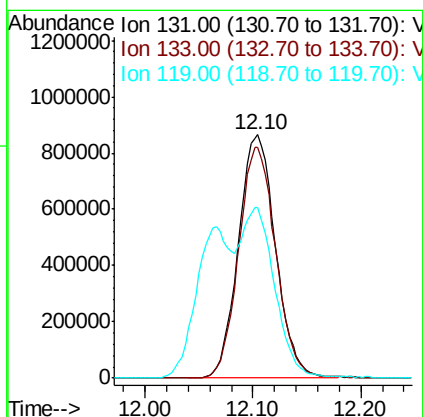
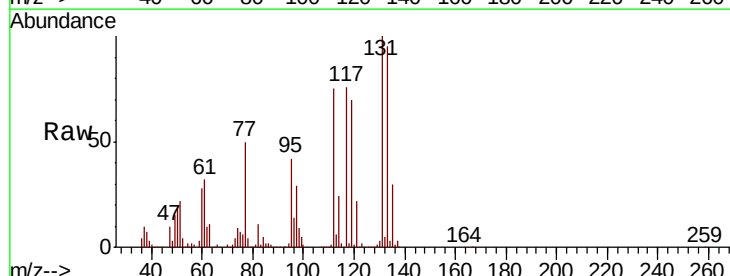
Manual Integrations
APPROVED

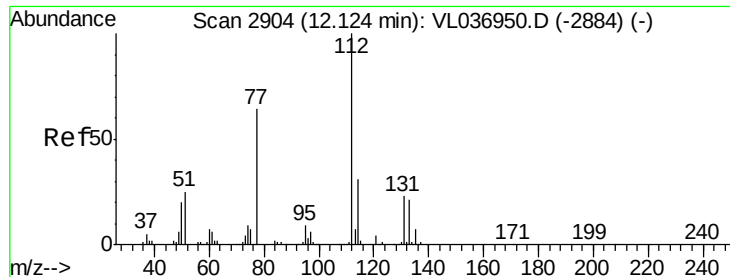
MMDadoda
5/20/2021 5:54:25 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 11.597 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion:131 Resp: 2074059
Ion Ratio Lower Upper
131 100
133 95.2 76.9 115.3
119 70.2 120.2 180.4#





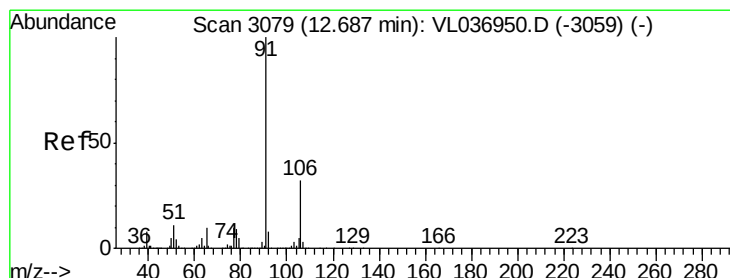
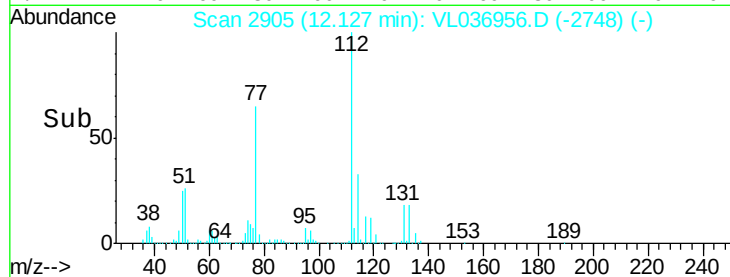
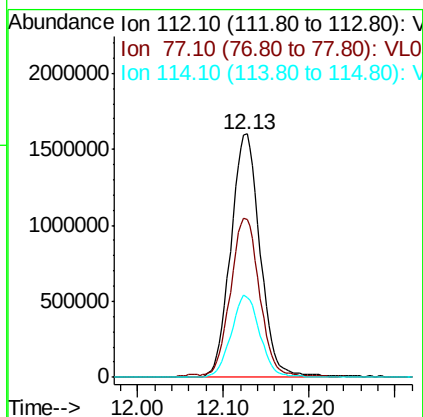
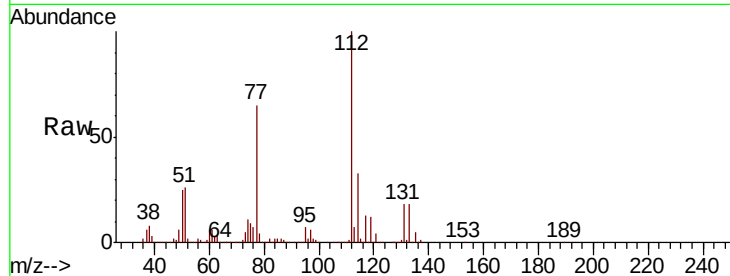
#57
Chlorobenzene
Concen: 11.550 ppbv
RT: 12.13 min Scan# 2905
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 112 Resp: 3791865
Ion Ratio Lower Upper
112 100
77 64.4 51.0 76.6
114 32.5 28.3 34.5

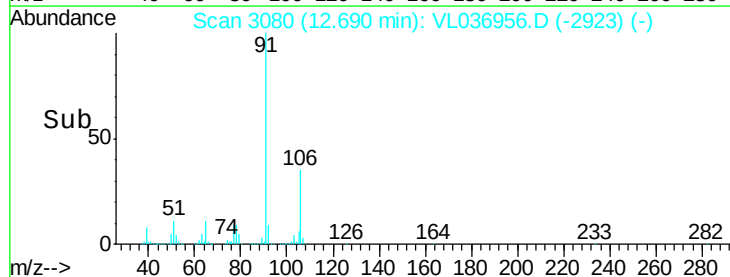
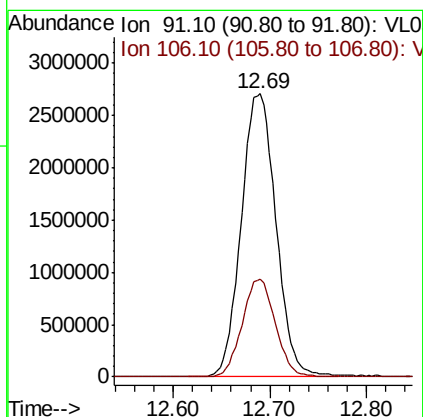
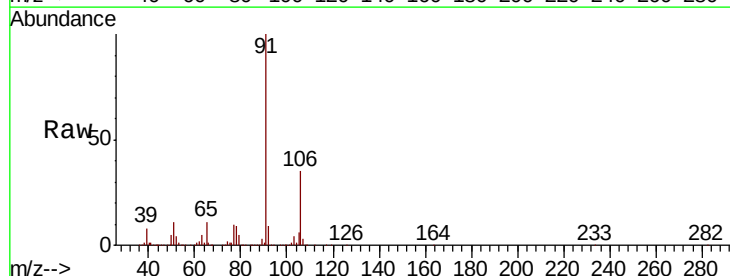
Manual Integrations
APPROVED

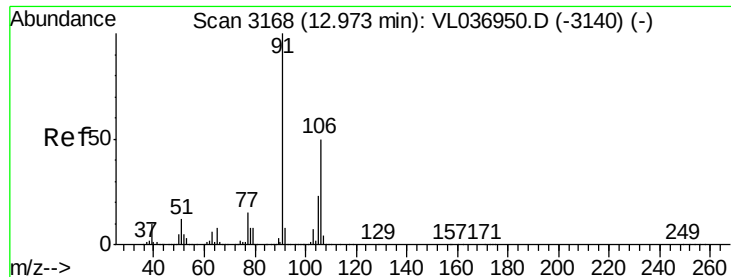
MMDadoda
5/20/2021 5:54:25 PM



#58
Ethyl Benzene
Concen: 14.600 ppbv
RT: 12.69 min Scan# 3080
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion: 91 Resp: 6750723
Ion Ratio Lower Upper
91 100
106 34.7 25.6 38.4





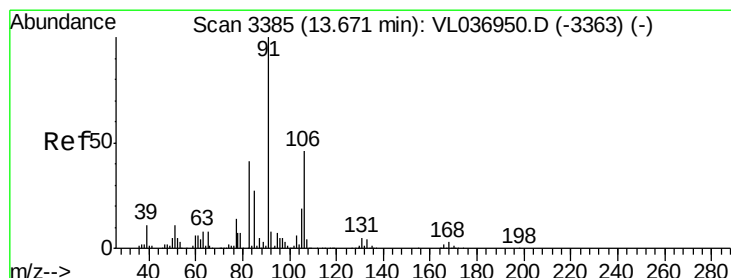
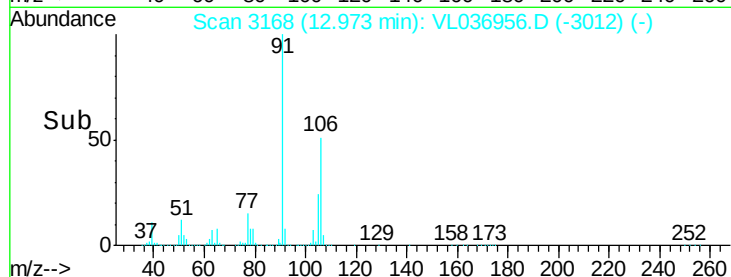
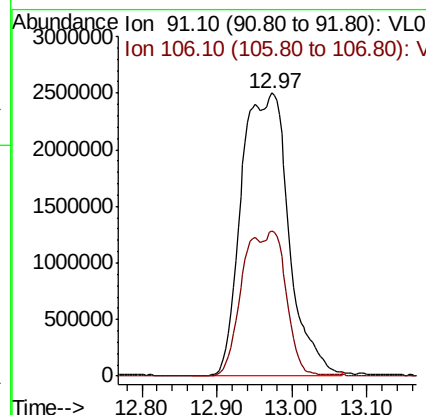
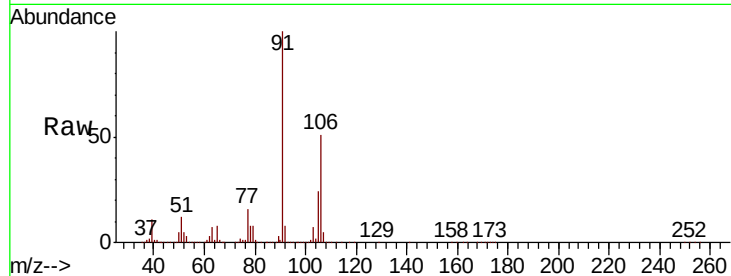
#59
m/p-Xylene
Concen: 25.303 ppbv m
RT: 12.97 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 10995065
Ion Ratio Lower Upper
91 100
106 47.2 37.4 56.2

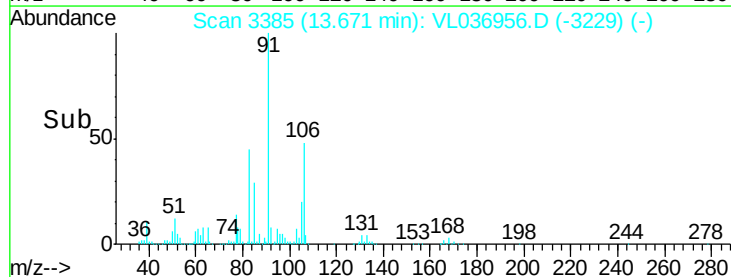
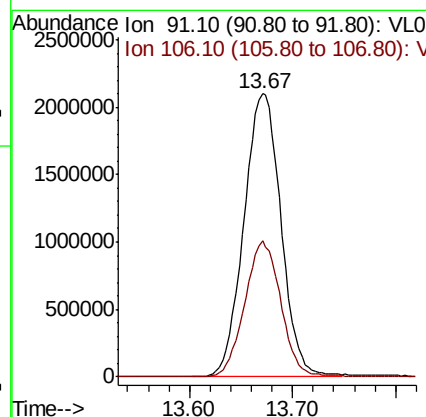
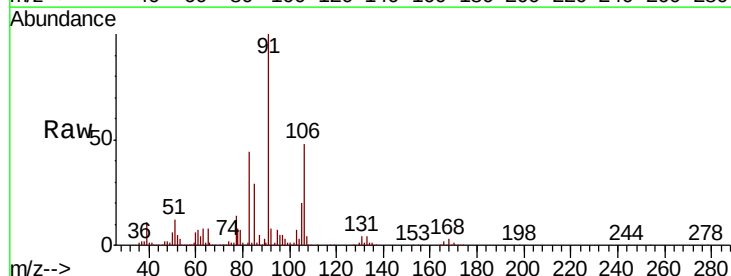
Manual Integrations
APPROVED

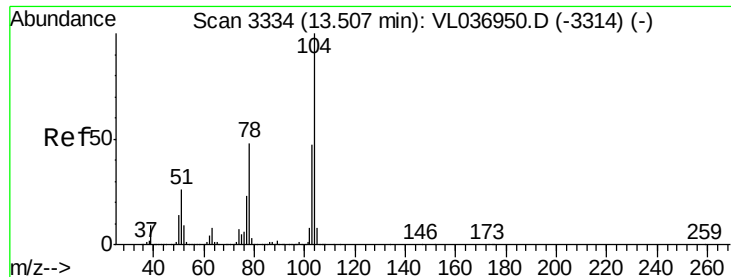
MMDadoda
5/20/2021 5:54:25 PM



#60
o-Xylene
Concen: 12.464 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion: 91 Resp: 5238278
Ion Ratio Lower Upper
91 100
106 47.1 23.4 70.3





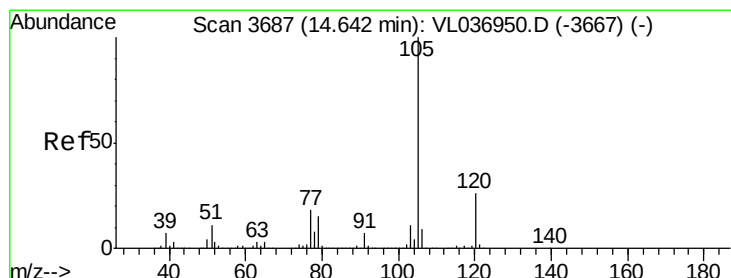
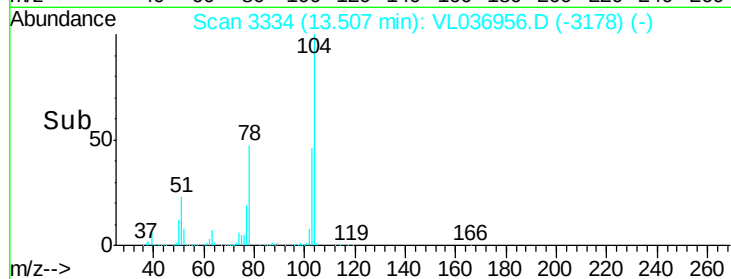
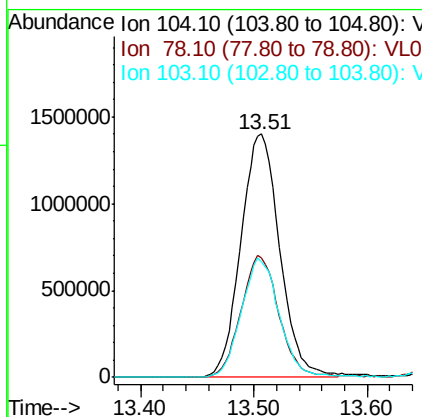
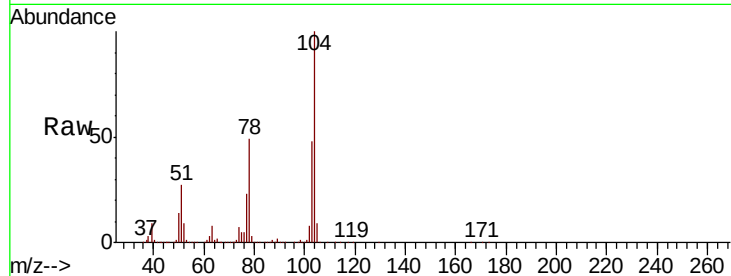
#61
Stvrene
Concen: 19.415 ppbv
RT: 13.51 min Scan# 3334
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.2	39.0	58.6
103	48.1	38.0	57.0

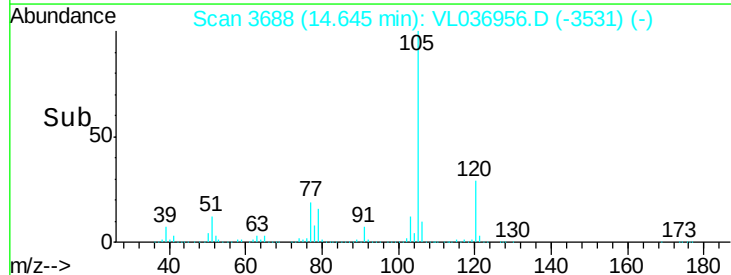
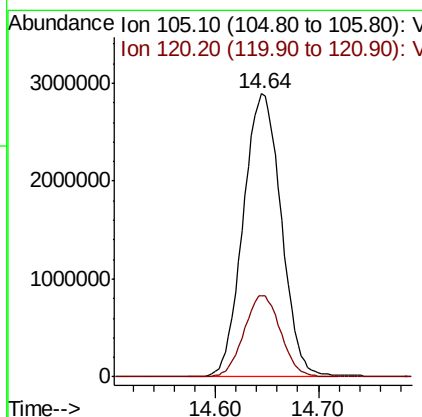
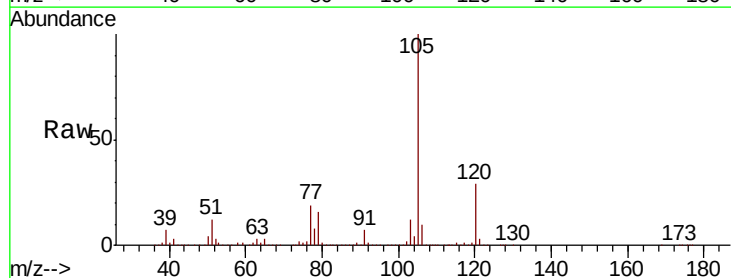
Manual Integrations
APPROVED

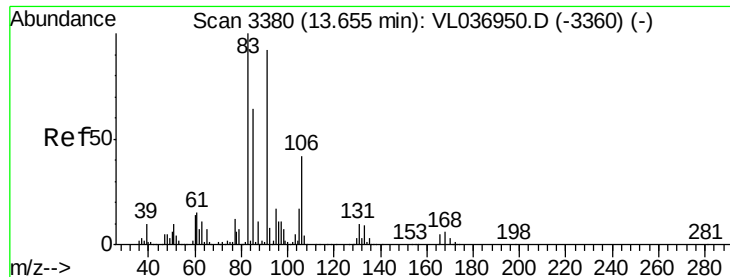
MMDadoda
5/20/2021 5:54:25 PM



#62
Isopropylbenzene
Concen: 12.920 ppbv
RT: 14.64 min Scan# 3688
Delta R.T. 0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.9	21.7	32.5





#63

1,1,2,2-Tetrachloroethane

Concen: 9.204 ppbv

RT: 13.65 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 3655174

Ion Ratio Lower Upper

83 100

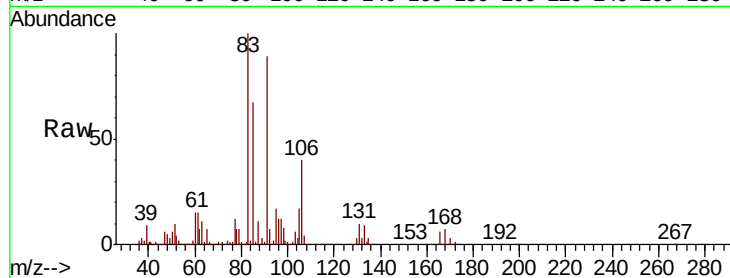
131 10.1 5.0 15.0

85 66.5 32.9 98.6

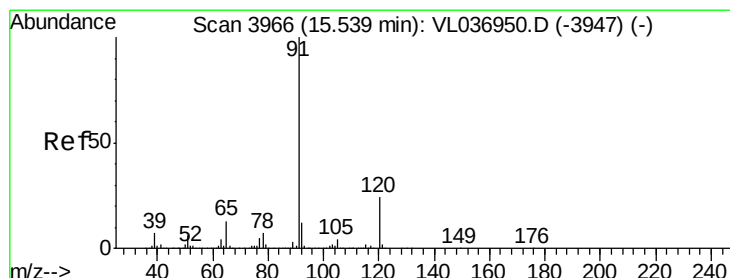
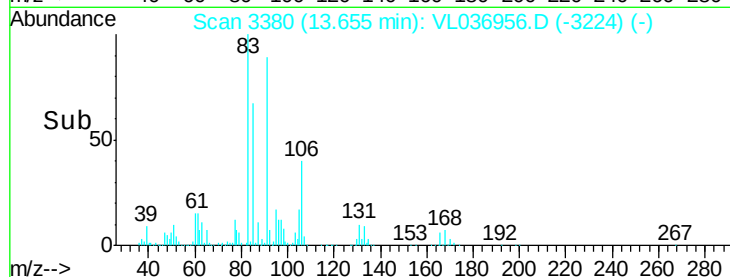
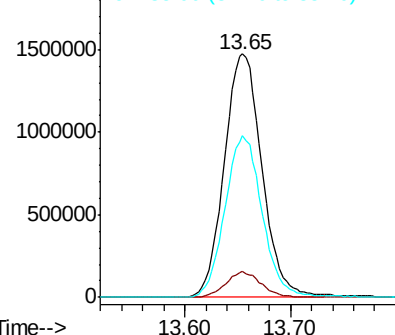
Manual Integrations
APPROVED

MMDadoda

5/20/2021 5:54:25 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0
2000000
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 14.882 ppbv

RT: 15.54 min Scan# 3967

Delta R.T. 0.00 min

Lab File: VL036956.D

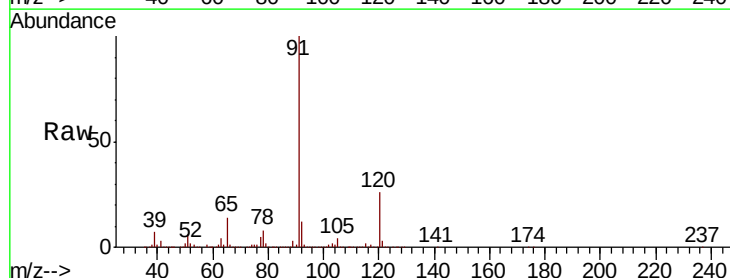
Acq: 18 May 2021 5:47

Tgt Ion:120 Resp: 2110902

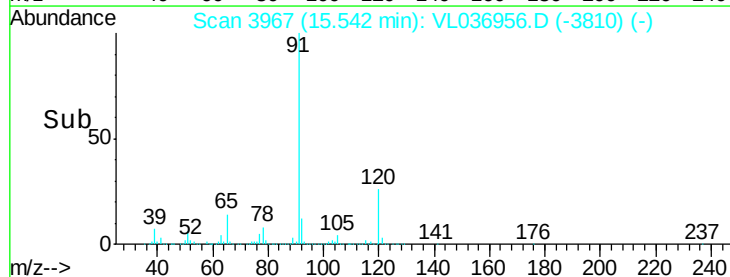
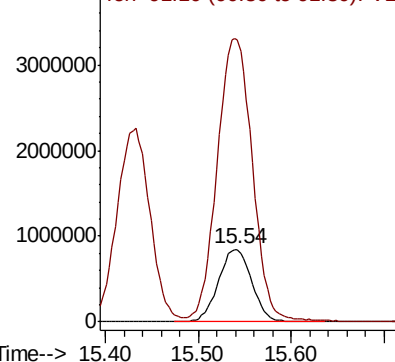
Ion Ratio Lower Upper

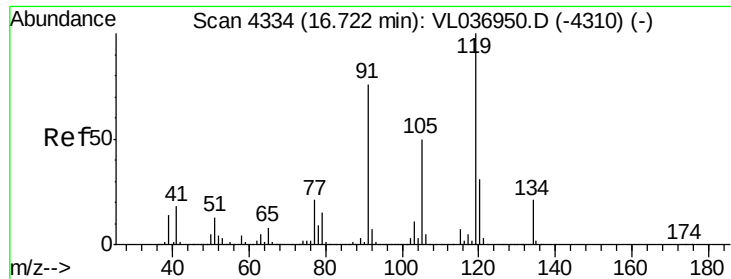
120 100

91 413.0 343.8 515.6



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





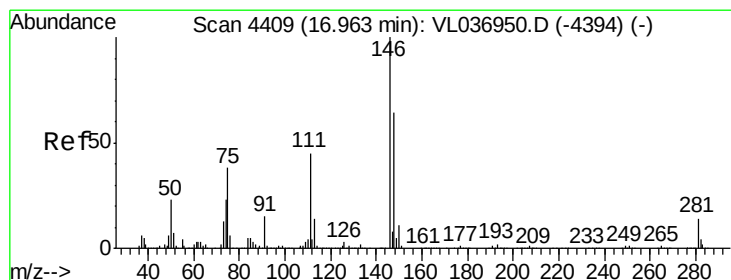
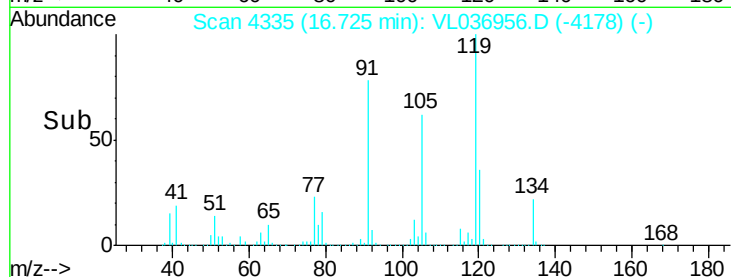
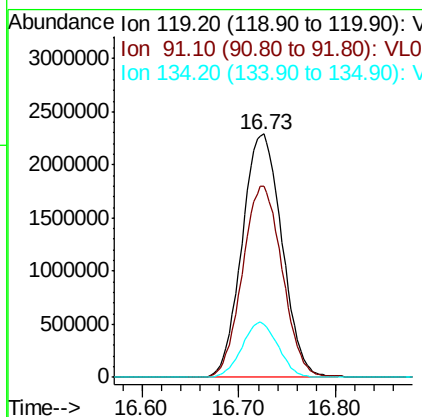
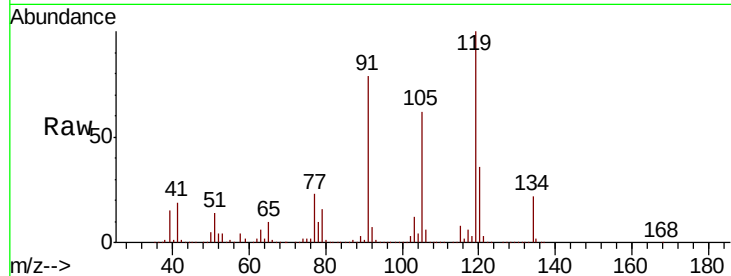
#65
 tert-Butylbenzene
 Concen: 12.912 ppbv
 RT: 16.73 min Scan# 4335
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:119 Resp: 6563535
 Ion Ratio Lower Upper
 119 100
 91 78.5 61.9 92.9
 134 20.5 16.2 24.4

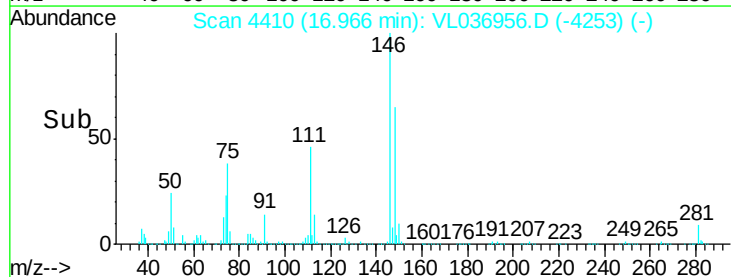
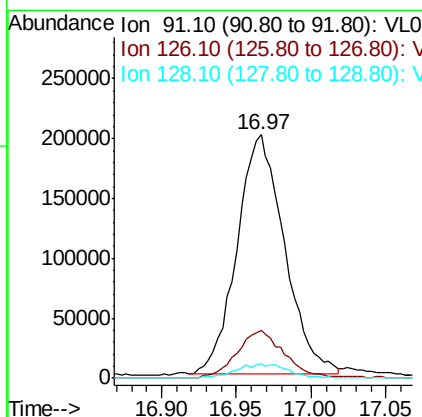
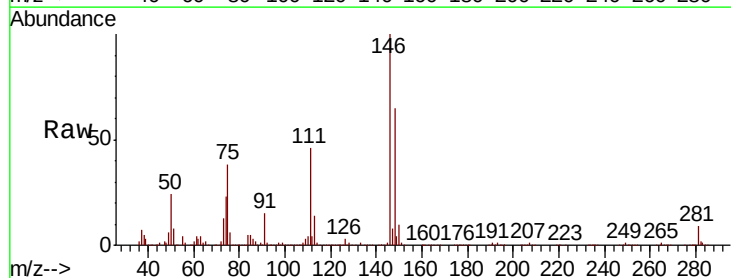
Manual Integrations
 APPROVED

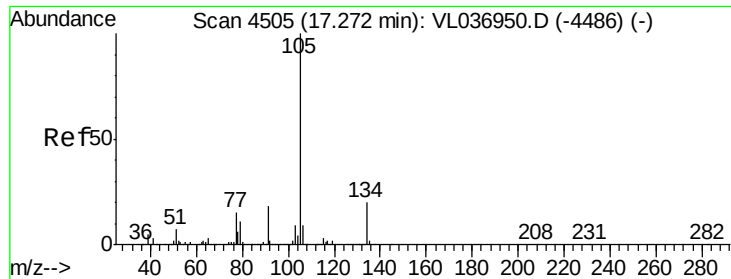
MMDadoda
 5/20/2021 5:54:25 PM



#66
 Benzyl Chloride
 Concen: 9.582 ppbv
 RT: 16.97 min Scan# 4410
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Tgt Ion: 91 Resp: 443339
 Ion Ratio Lower Upper
 91 100
 126 19.9 16.5 24.7
 128 6.7 5.5 8.3





#67

sec-Butylbenzene

Concen: 12.554 ppbv

RT: 17.27 min Scan# 4505

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 9015997

Ion Ratio Lower Upper

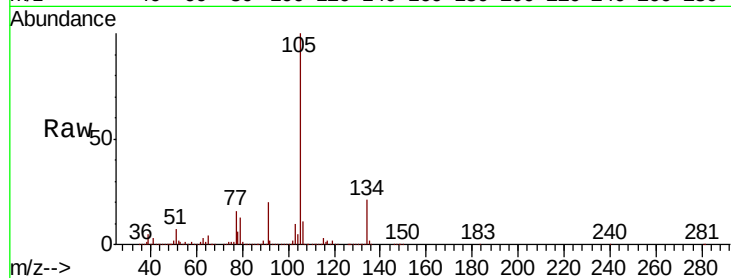
105 100

134 20.3 15.6 23.4

Manual Integrations
APPROVED

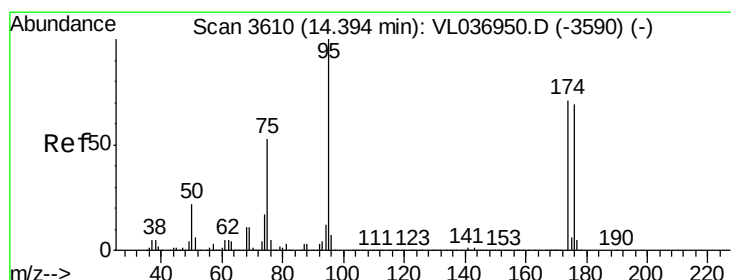
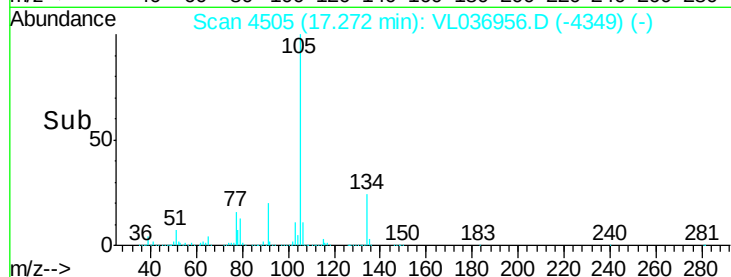
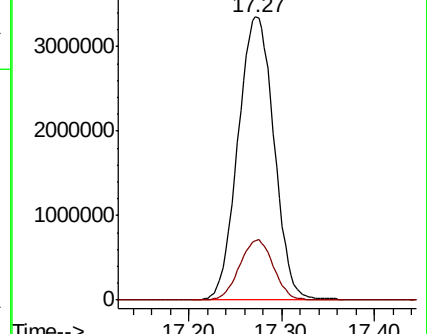
MMDadoda

5/20/2021 5:54:25 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.829 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

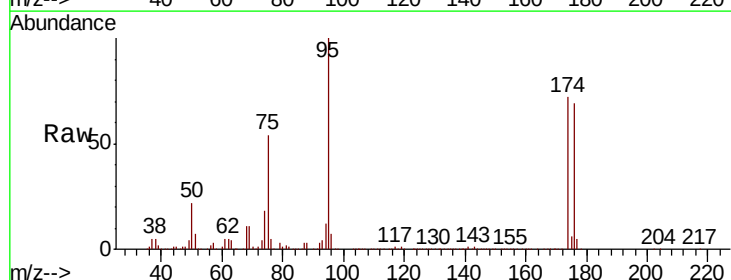
Tgt Ion: 95 Resp: 2981283

Ion Ratio Lower Upper

95 100

174 73.0 58.4 87.6

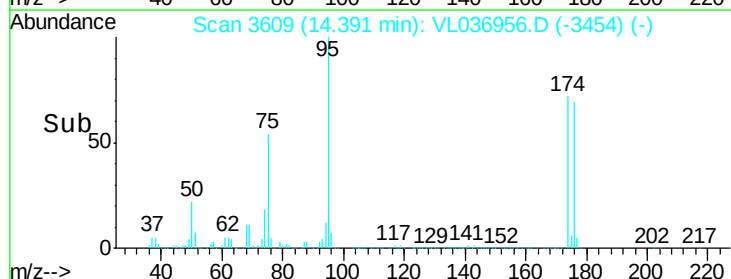
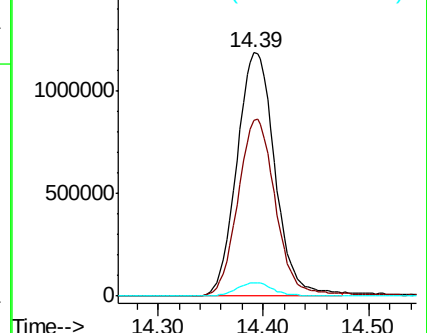
175 5.4 4.4 6.6

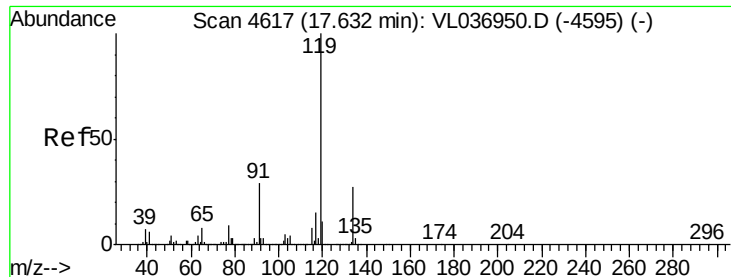


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





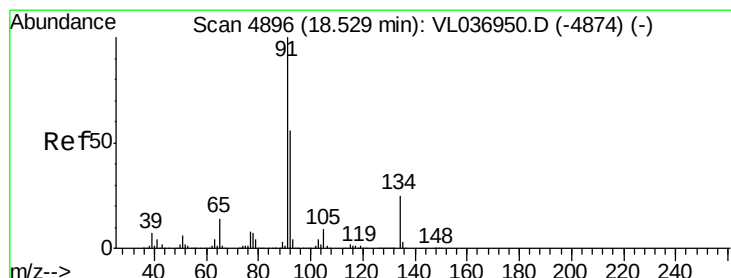
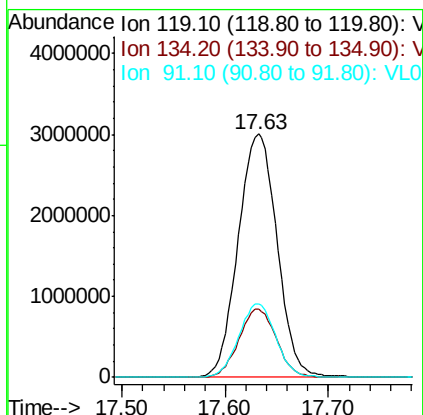
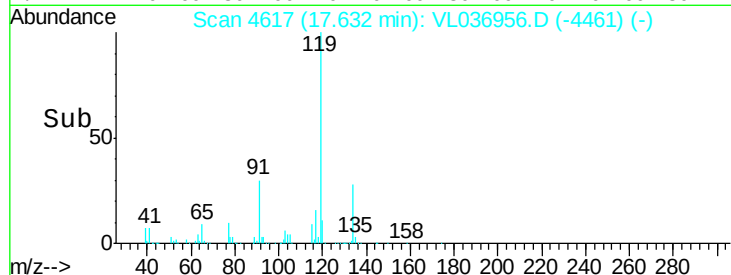
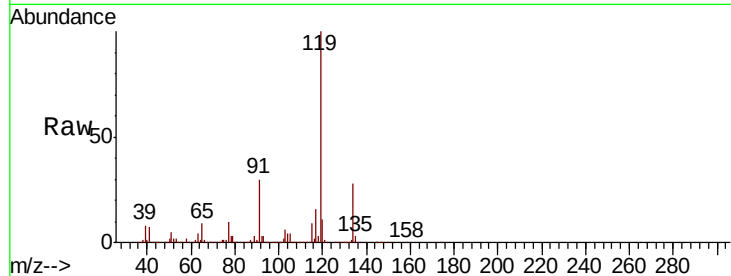
#69
 p-Isopropyltoluene
 Concen: 14.422 ppbv
 RT: 17.63 min Scan# 4617
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.3	21.2	31.8
91	28.8	22.2	33.4

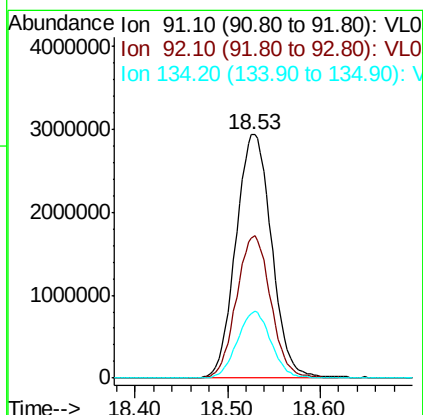
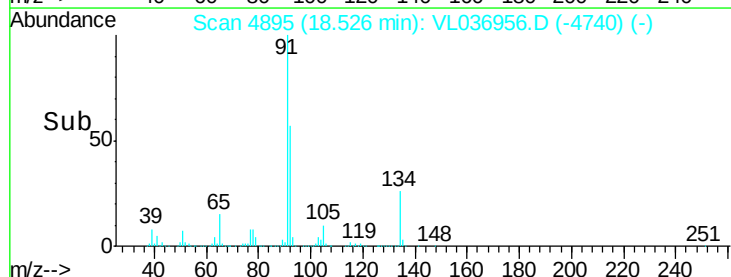
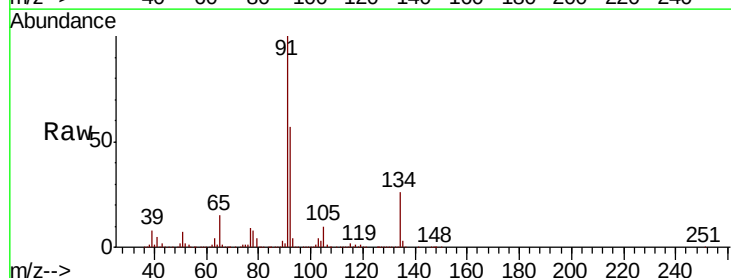
Manual Integrations
 APPROVED

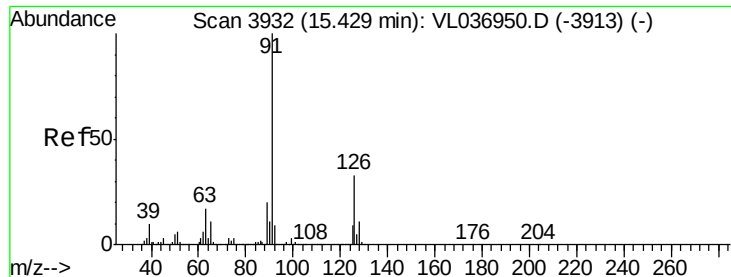
MMDadoda
 5/20/2021 5:54:25 PM



#70
 n-Butylbenzene
 Concen: 14.341 ppbv
 RT: 18.53 min Scan# 4895
 Delta R.T. -0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.5	44.6	66.8
134	26.1	20.2	30.2





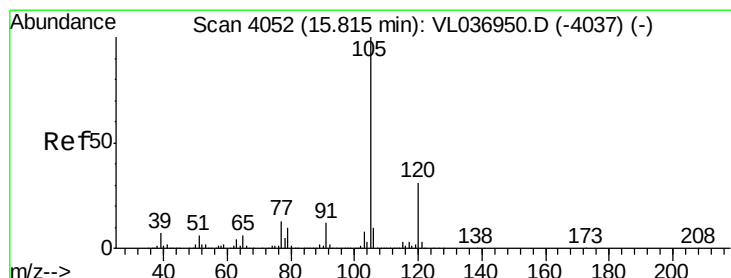
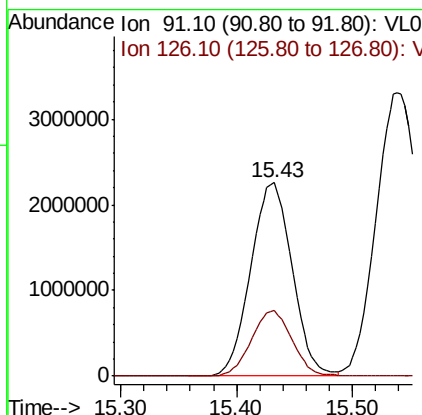
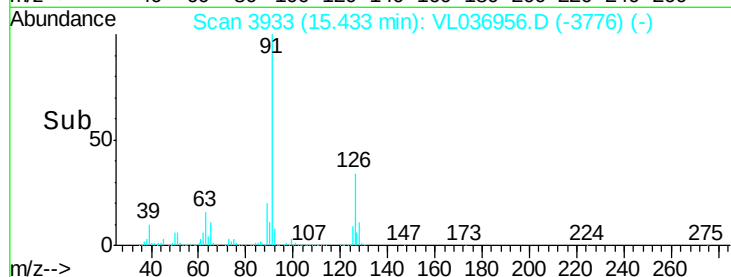
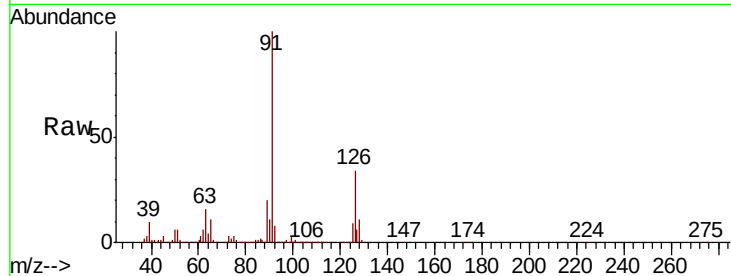
#71
 2-Chlorotoluene
 Concen: 13.706 ppbv
 RT: 15.43 min Scan# 3933
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 91 Resp: 5616955
 Ion Ratio Lower Upper
 91 100
 126 33.5 13.1 52.5

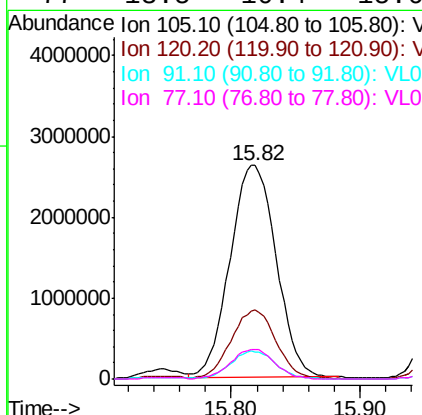
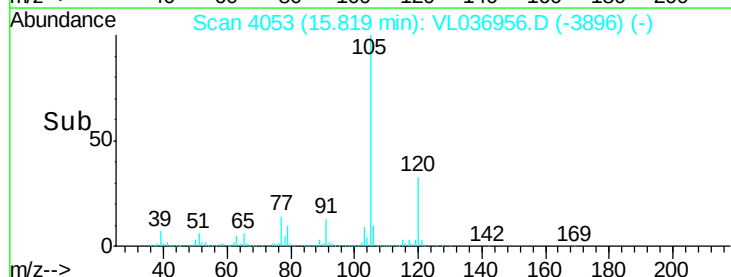
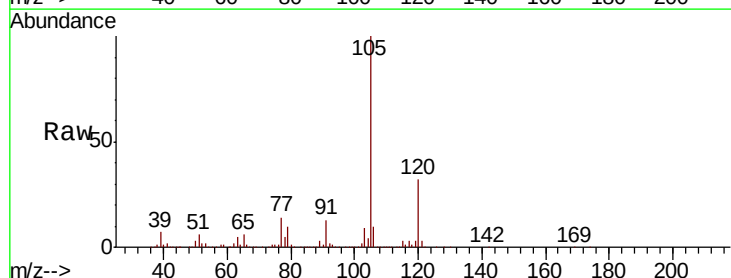
Manual Integrations
 APPROVED

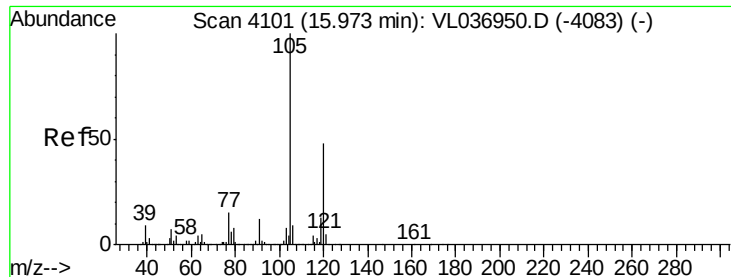
MMDadoda
 5/20/2021 5:54:25 PM



#72
 4-Ethyltoluene
 Concen: 15.055 ppbv
 RT: 15.82 min Scan# 4053
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Tgt Ion: 105 Resp: 6555876
 Ion Ratio Lower Upper
 105 100
 120 31.6 24.6 37.0
 91 12.6 9.8 14.6
 77 13.5 10.4 15.6





#73

1,3,5-Trimethylbenzene

Concen: 14.096 ppbv

RT: 15.98 min Scan# 4102

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5997411

Ion Ratio Lower Upper

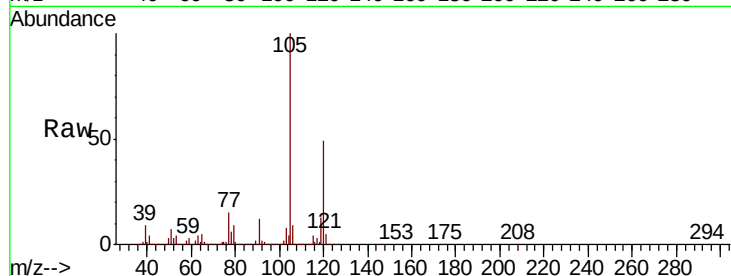
105 100

120 49.1 38.6 58.0

Manual Integrations
APPROVED

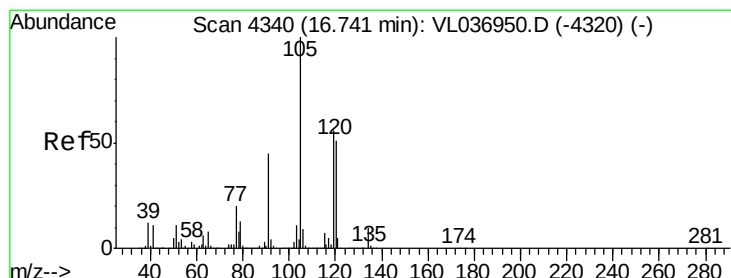
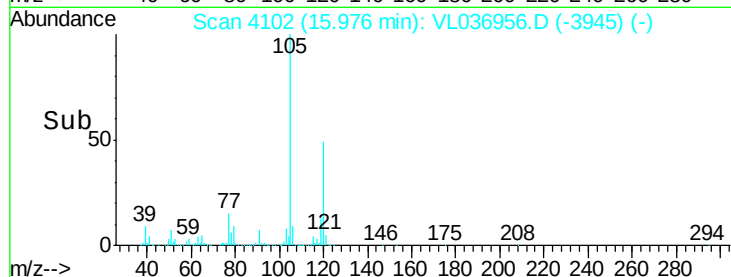
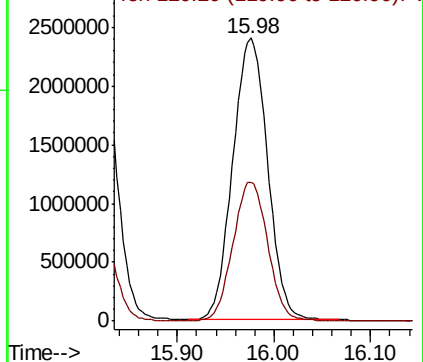
MMDadoda

5/20/2021 5:54:25 PM



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: 12.957 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. 0.00 min

Lab File: VL036956.D

Acq: 18 May 2021 5:47

Tgt Ion:105 Resp: 6053400

Ion Ratio Lower Upper

105 100

120 52.2 40.6 61.0

91 49.6 37.4 56.0

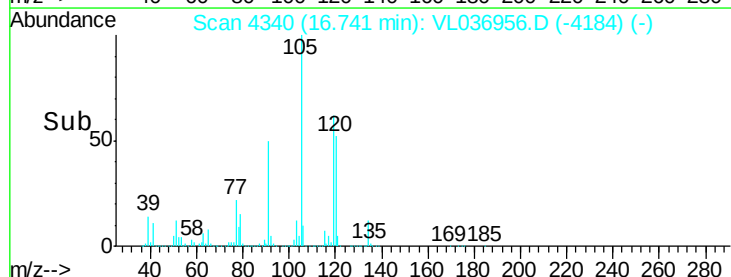
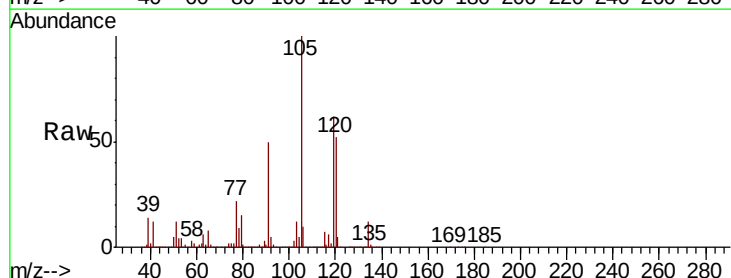
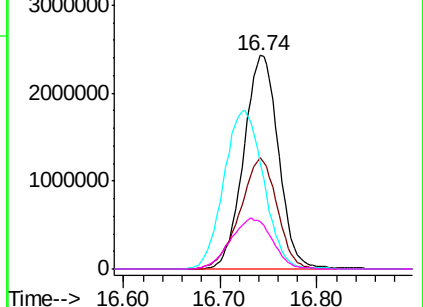
77 21.9 16.2 24.4

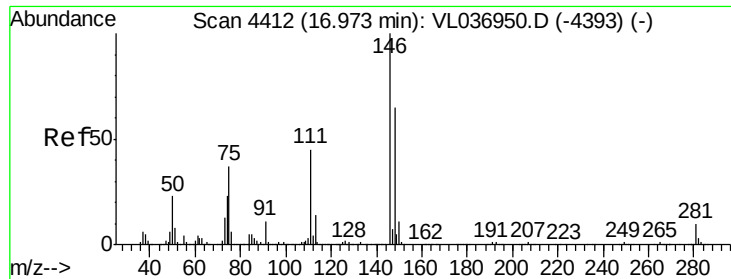
Abundance Ion 105.10 (104.80 to 105.80): V

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





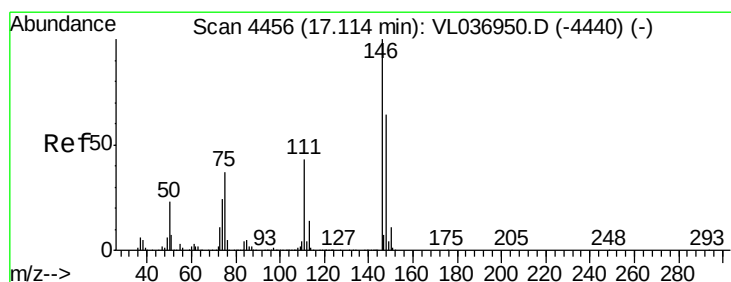
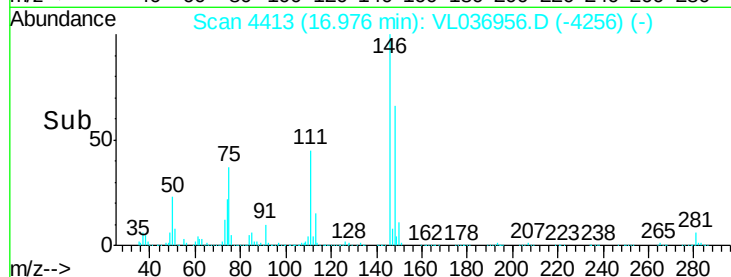
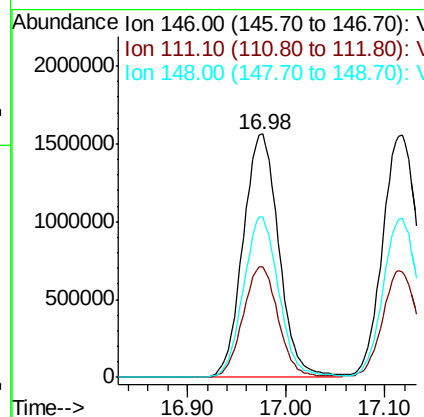
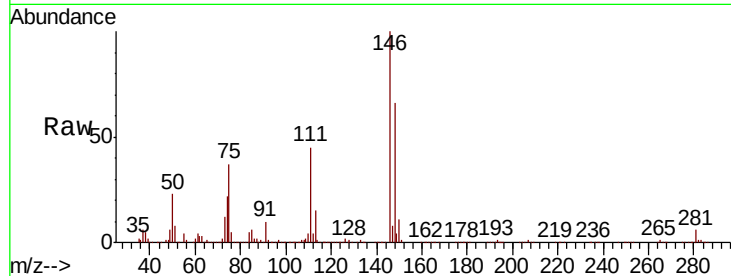
#75
 1,3-Dichlorobenzene
 Concen: 12.976 ppbv
 RT: 16.98 min Scan# 4413
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.8	22.2	66.6
148	65.1	32.3	96.8

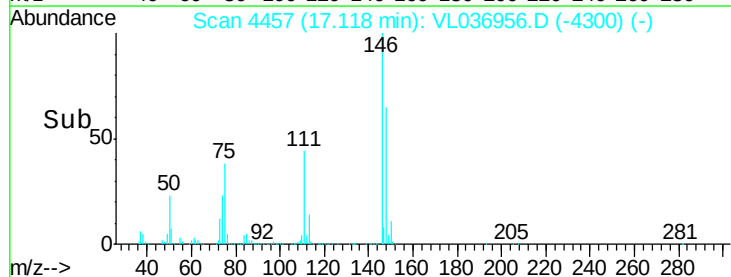
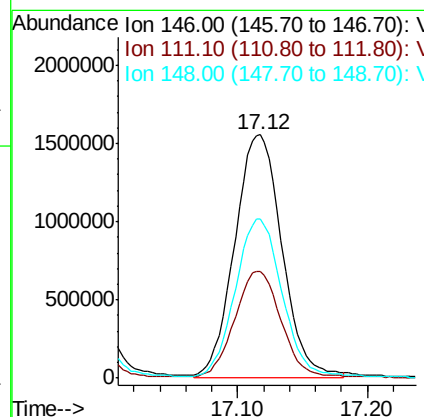
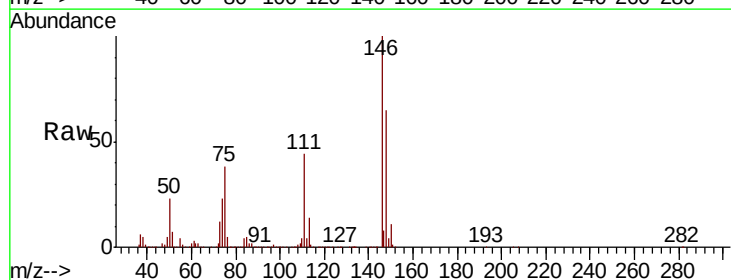
Manual Integrations
 APPROVED

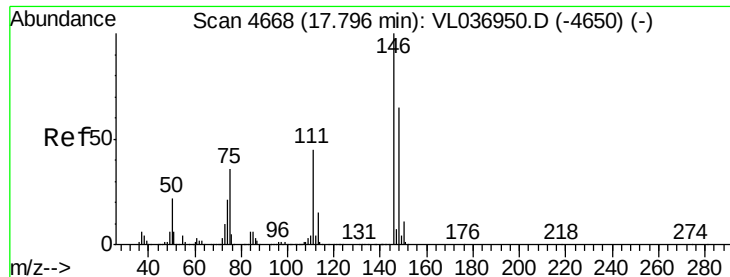
MMDadoda
 5/20/2021 5:54:25 PM



#76
 1,4-Dichlorobenzene
 Concen: 14.659 ppbv m
 RT: 17.12 min Scan# 4457
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.3	22.6	67.7
148	65.4	33.5	100.5





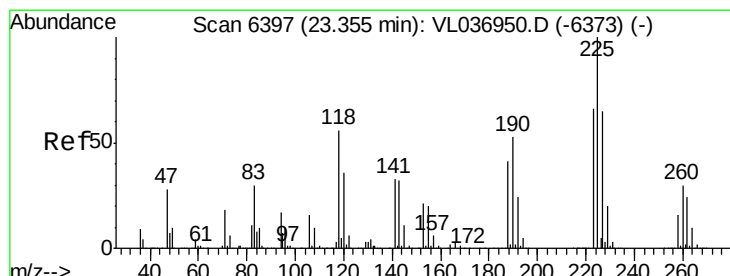
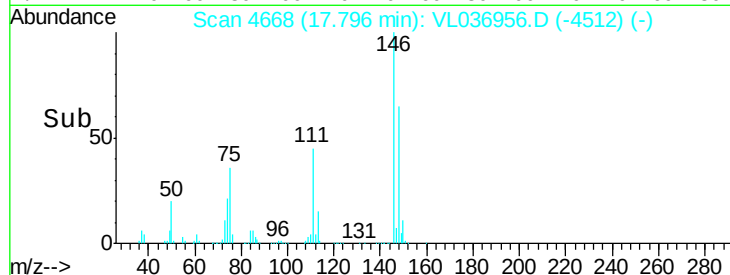
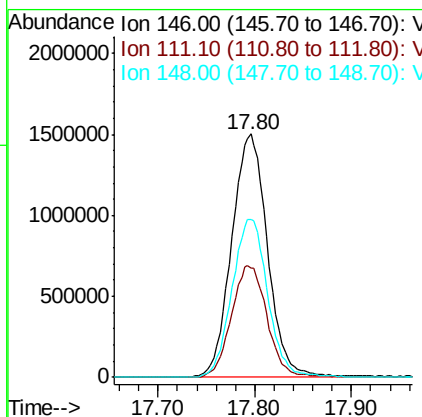
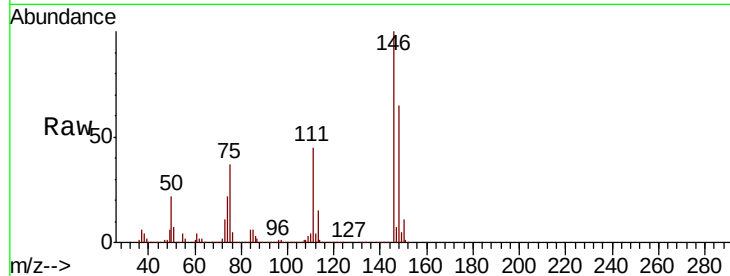
#77
 1,2-Dichlorobenzene
 Concen: 14.005 ppbv
 RT: 17.80 min Scan# 4668
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.0	23.1	69.2
148	65.4	32.5	97.4

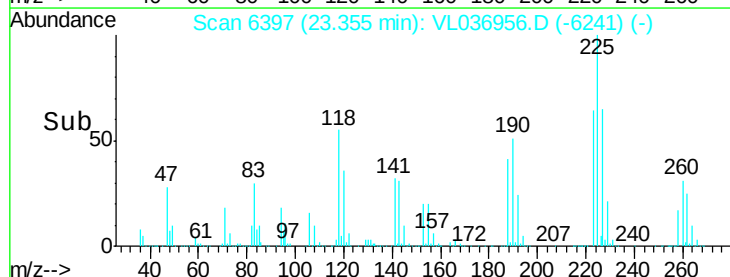
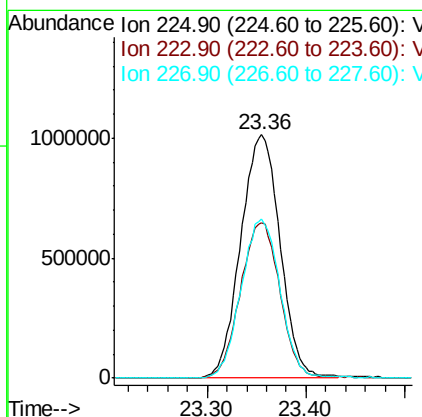
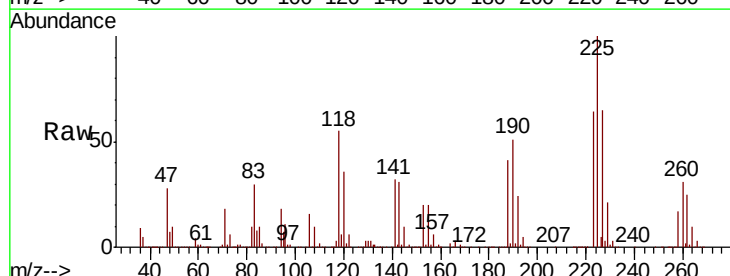
Manual Integrations
 APPROVED

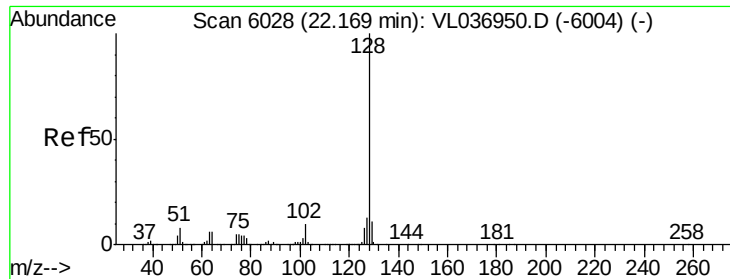
MMDadoda
 5/20/2021 5:54:25 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 11.456 ppbv
 RT: 23.36 min Scan# 6397
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.2	51.9	77.9
227	65.1	51.8	77.6





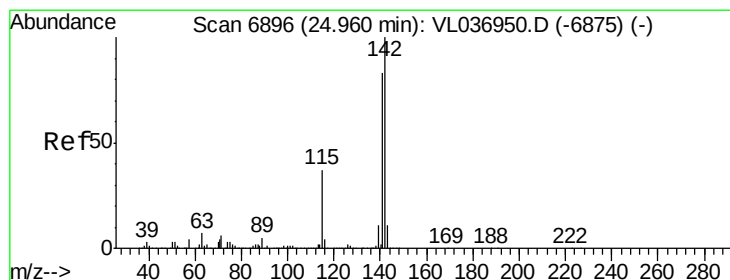
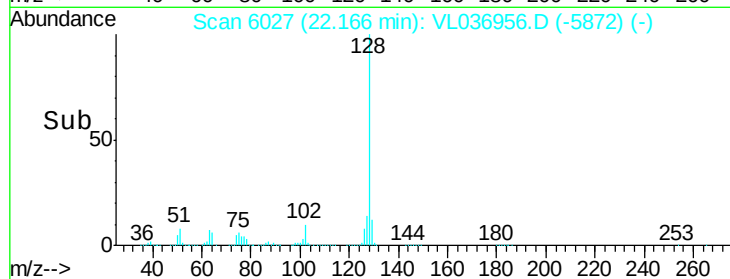
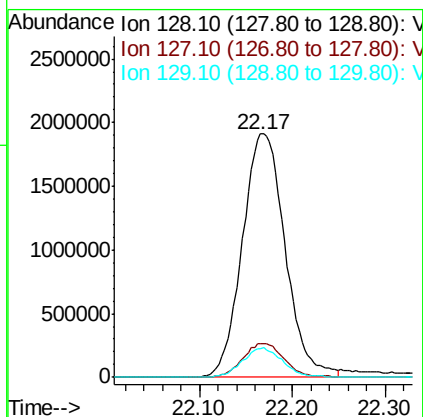
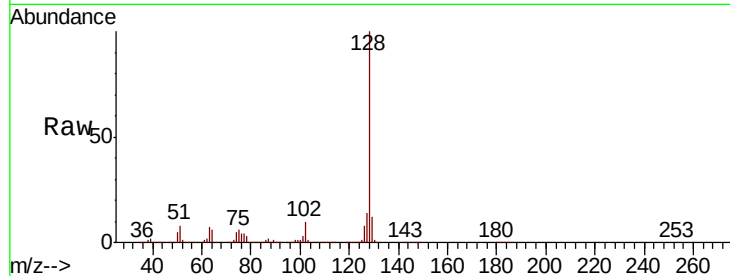
#79
Naphthalene
Concen: 29.043 ppbv
RT: 22.17 min Scan# 6027
Delta R.T. -0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.4	15.6
129	12.0	9.0	13.6

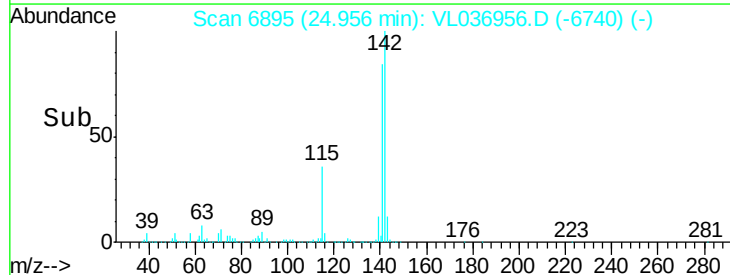
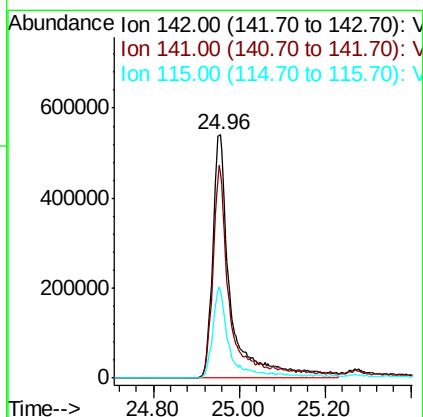
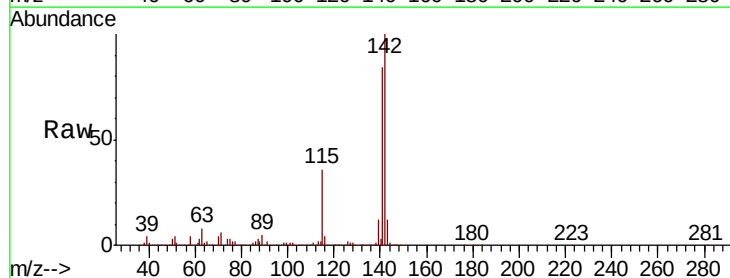
Manual Integrations
APPROVED

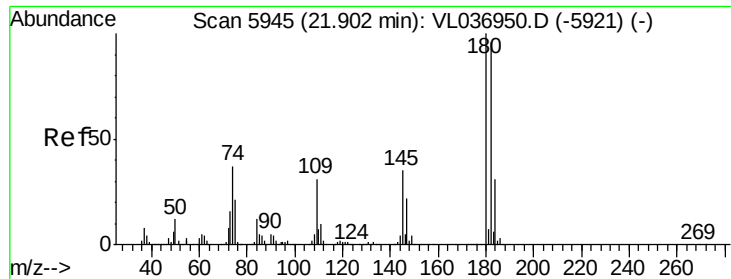
MMDadoda
5/20/2021 5:54:25 PM



#80
Naphthalene, 2-methyl-
Concen: 52.189 ppbv
RT: 24.96 min Scan# 6895
Delta R.T. -0.00 min
Lab File: VL036956.D
Acq: 18 May 2021 5:47

Tgt Ion	Ratio	Lower	Upper
142	100		
141	79.9	69.3	103.9
115	36.3	29.1	43.7





#81
 1,2,4-Trichlorobenzene
 Concen: 22.671 ppbv
 RT: 21.90 min Scan# 5945
 Delta R.T. 0.00 min
 Lab File: VL036956.D
 Acq: 18 May 2021 5:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.5	81.7	122.5
184	32.5	24.9	37.3

Manual Integrations
 APPROVED

MMDadoda
 5/20/2021 5:54:25 PM

