

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036213.D
 Acq On : 13 Jan 2021 4:30
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 1/18/2021 3:48:50 PM

Quant Time: Jan 14 16:06:45 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jan 13
 QLast Update : Wed Jan 13 05:46:16 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1588903m	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3369653	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3009967	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2537110	10.51	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	137008m	0.734	ppbv
3) Chlorodifluoromethane	2.99	51	106043	0.583	ppbv 99
4) Chloromethane	3.14	50	53287	0.596	ppbv # 69
5) Vinyl Chloride	3.26	62	47126m	0.478	ppbv
6) Bromomethane	3.47	94	27429m	0.544	ppbv
7) Chloroethane	3.56	64	16878m	0.508	ppbv
8) Dichlorotetrafluoroethane	3.18	85	110920	0.547	ppbv 99
9) Propene	3.00	41	54125m	0.600	ppbv
10) Heptane	8.12	43	119518	0.520	ppbv 95
11) Trichlorofluoromethane	3.95	101	118351m	0.553	ppbv
12) 1,1,2-Trichlorotrifluoroet	4.48	101	68071m	0.477	ppbv
13) Ethanol	3.62	45	9304m	0.745	ppbv
14) Bromoethene	3.74	108	31186m	0.527	ppbv
15) Acetone	3.86	43	118716m	0.631	ppbv
16) 1,3-Butadiene	3.33	39	52111m	0.549	ppbv
17) tert-Butyl alcohol	4.30	59	86876m	0.491	ppbv
18) 1,1-Dichloroethene	4.29	96	32728m	0.516	ppbv
19) Isopropyl Alcohol	3.99	45	70455m	0.613	ppbv
20) Methylene Chloride	4.34	84	38542m	0.512	ppbv
21) Allyl Chloride	4.41	41	50517	0.414	ppbv 96
22) trans-1,2-Dichloroethene	4.88	96	29409m	0.466	ppbv
23) Vinyl Acetate	5.07	43	106922	0.428	ppbv # 96
24) 1,1-Dichloroethane	5.01	63	85693	0.487	ppbv # 94
25) Ethyl Acetate	5.67	43	200590m	0.533	ppbv
26) Hexane	5.68	57	88381m	0.522	ppbv
27) Carbon Disulfide	4.55	76	59014m	0.363	ppbv
28) Methyl tert-Butyl Ether	5.04	73	119874m	0.510	ppbv
29) Chloroform	5.75	83	123054	0.549	ppbv 96
30) Cyclohexane	7.13	84	63684m	0.504	ppbv
31) cis-1,2-Dichloroethene	5.55	61	82297m	0.531	ppbv
32) 1,1,1-Trichloroethane	6.50	97	111678	0.483	ppbv 96
34) 2-Butanone	5.25	43	131573m	0.582	ppbv
35) Carbon Tetrachloride	7.01	117	105756m	0.538	ppbv
36) Benzene	6.89	78	162818	0.568	ppbv 95
37) 1,2-Dichloroethane	6.30	62	99241	0.594	ppbv 97
38) Trichloroethene	7.83	130	56764m	0.536	ppbv
39) 1,2-Dichloropropane	7.61	63	68317	0.601	ppbv 86
40) 1,4-Dioxane	7.88	88	28408m	0.794	ppbv
41) Tetrahydrofuran	6.06	42	73542m	0.554	ppbv
42) Bromodichloromethane	7.78	83	111218	0.504	ppbv # 92
43) Methyl Methacrylate	8.01	69	64253m	0.522	ppbv

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036213.D
 Acq On : 13 Jan 2021 4:30
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

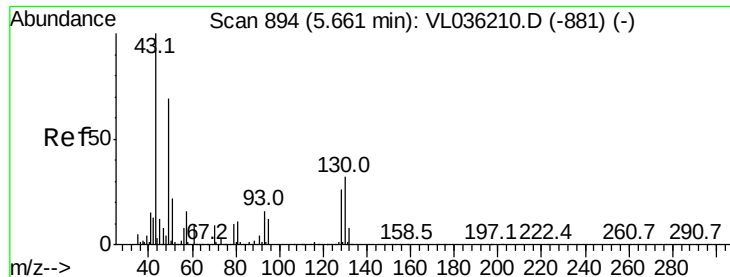
Manual Integrations
 APPROVED

MMDadoda
 1/18/2021 3:48:50 PM

Quant Time: Jan 14 16:06:45 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jan 13
 QLast Update : Wed Jan 13 05:46:16 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	316173	0.611	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	48209m	0.383	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	73409	0.462	ppbv	95
47) 1,1,2-Trichloroethane	9.47	97	65059m	0.594	ppbv	
48) Dibromochloromethane	10.29	129	80830m	0.493	ppbv	
49) Bromoform	13.03	173	69567m	0.537	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	194369m	0.578	ppbv	
51) 2-Hexanone	10.15	43	142761m	0.535	ppbv	
52) Tetrachloroethene	11.21	164	54603m	0.530	ppbv	
53) Toluene	9.80	91	184188m	0.572	ppbv	
54) 1,2-Dibromoethane	10.60	107	90967m	0.554	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.12	131	74990	0.601	ppbv #	1
57) Chlorobenzene	12.14	112	136288m	0.642	ppbv	
58) Ethyl Benzene	12.70	91	246508m	0.594	ppbv	
59) m/p-Xylene	12.97	91	427973m	1.226	ppbv	
60) o-Xylene	13.69	91	216923	0.658	ppbv	97
61) Styrene	13.53	104	115573	0.540	ppbv	95
62) Isopropylbenzene	14.66	105	310914	0.634	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	150401m	0.672	ppbv	
64) n-propylbenzene	15.56	120	74262m	0.626	ppbv	
65) tert-Butylbenzene	16.74	119	253072	0.628	ppbv	88
66) Benzyl Chloride	16.99	91	49406m	0.478	ppbv	
67) sec-Butylbenzene	17.29	105	402448	0.706	ppbv	97
69) p-Isopropyltoluene	17.65	119	297076m	0.655	ppbv	
70) n-Butylbenzene	18.56	91	323034m	0.708	ppbv	
71) 2-Chlorotoluene	15.44	91	243280m	0.650	ppbv	
72) 4-Ethyltoluene	15.83	105	222981	0.617	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	223352m	0.646	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	231344	0.667	ppbv #	90
75) 1,3-Dichlorobenzene	16.99	146	125810m	0.719	ppbv	
76) 1,4-Dichlorobenzene	17.14	146	124056m	0.696	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	123980m	0.731	ppbv	
78) Hexachloro-1,3-Butadiene	23.37	225	102467m	0.765	ppbv	
79) Naphthalene	22.22	128	92822m	0.500	ppbv	
80) Naphthalene, 2-methyl-	25.05	142	15630m	0.412	ppbv	
81) 1,2,4-Trichlorobenzene	21.93	180	67422m	0.572	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv m

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1588903

Ion Ratio Lower Upper

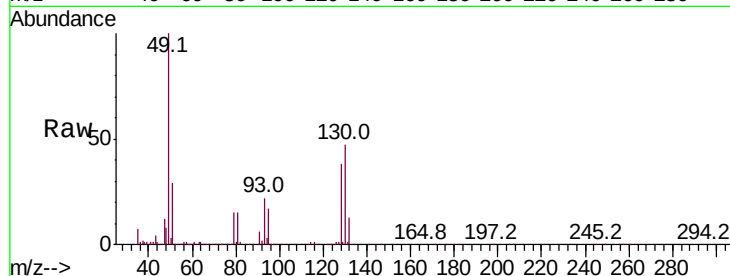
49 100

128 39.3 20.1 60.2

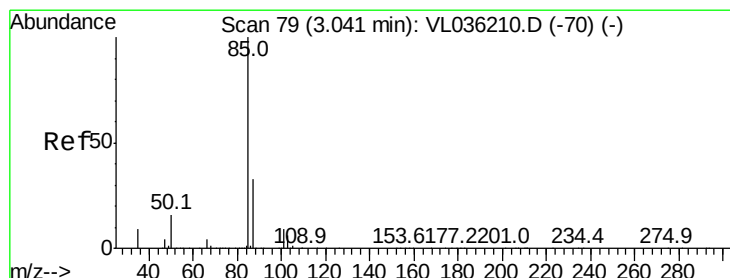
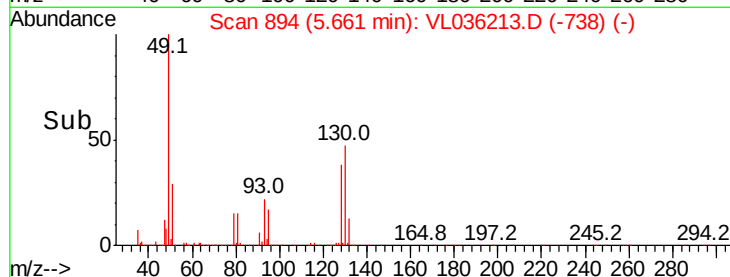
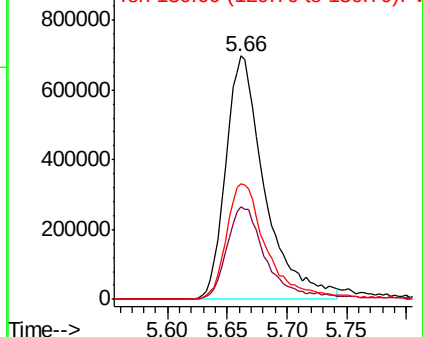
130 50.5 25.3 75.9

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:48:50 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.734 ppbv m

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL036213.D

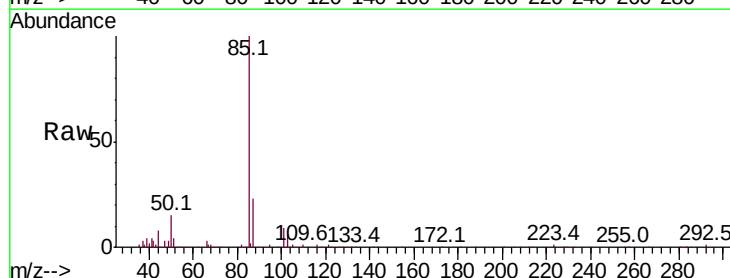
Acq: 13 Jan 2021 4:30

Tgt Ion: 85 Resp: 137008

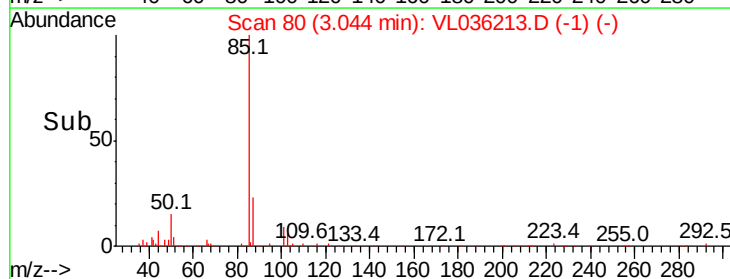
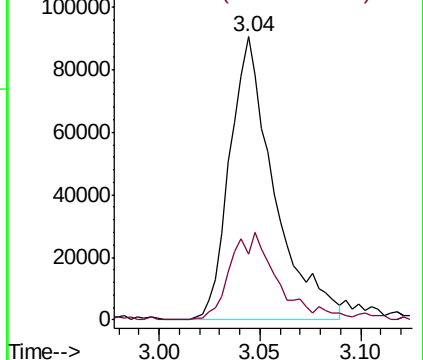
Ion Ratio Lower Upper

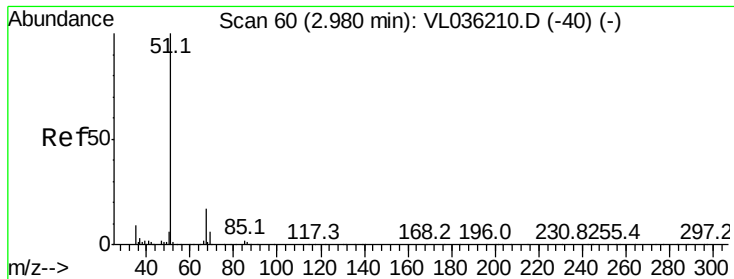
85 100

87 23.1 26.4 39.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.583 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.01 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 106043

Ion Ratio Lower Upper

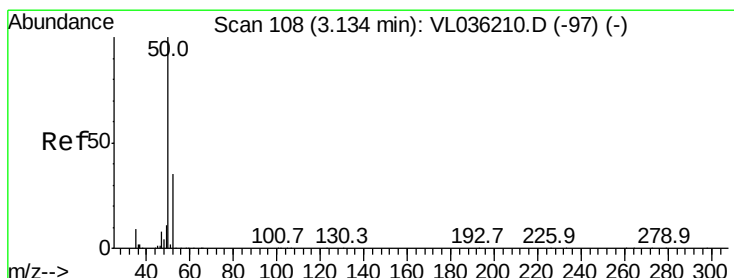
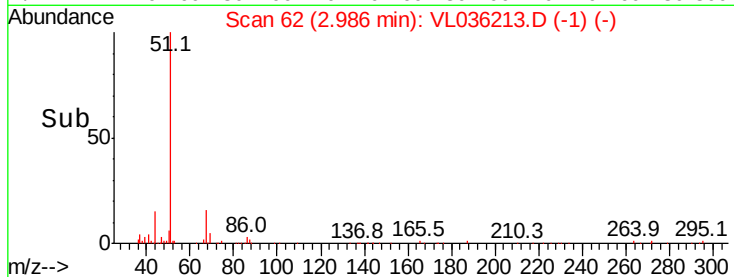
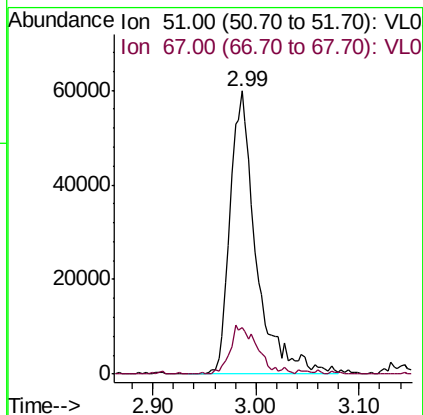
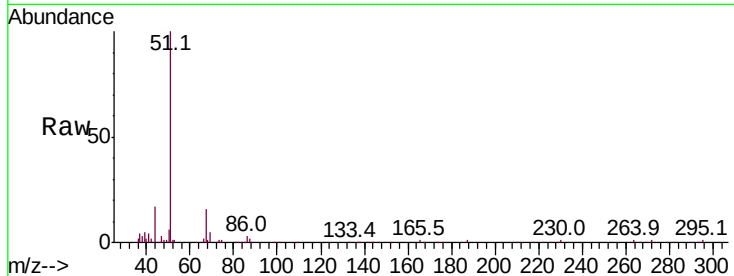
51 100

67 17.9 14.0 21.0

Manual Integrations
APPROVED

MMDadoda

1/18/2021 3:48:50 PM



#4

Chloromethane

Concen: 0.596 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL036213.D

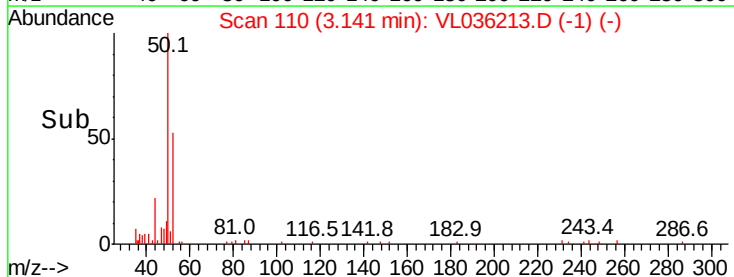
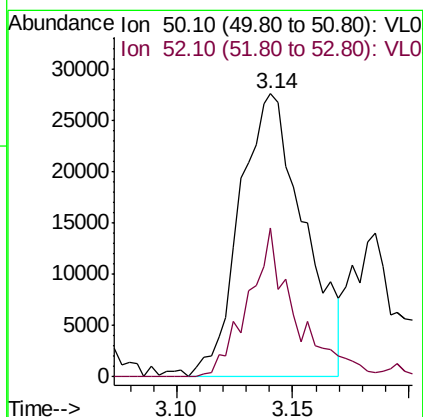
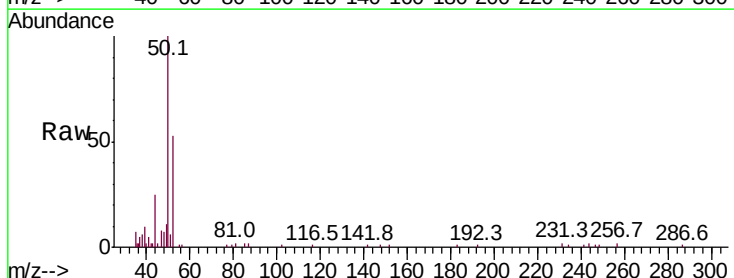
Acq: 13 Jan 2021 4:30

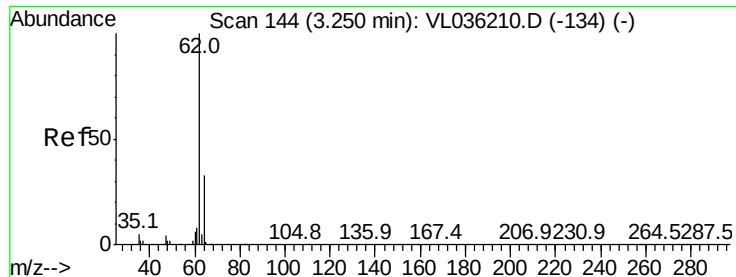
Tgt Ion: 50 Resp: 53287

Ion Ratio Lower Upper

50 100

52 52.7 27.8 41.8#





#5

Vinyl Chloride

Concen: 0.478 ppbv m

RT: 3.26 min Scan# 146

Delta R.T. 0.01 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 47126

Ion Ratio Lower Upper

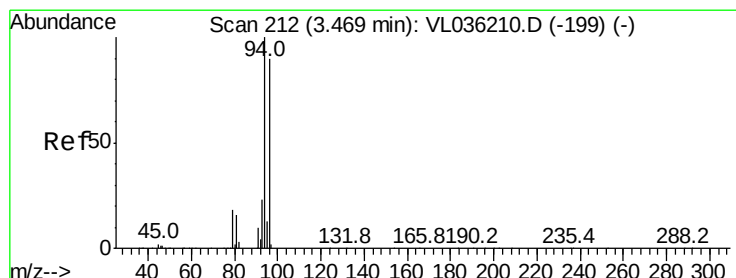
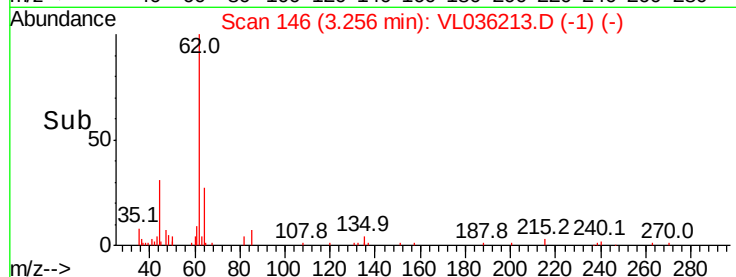
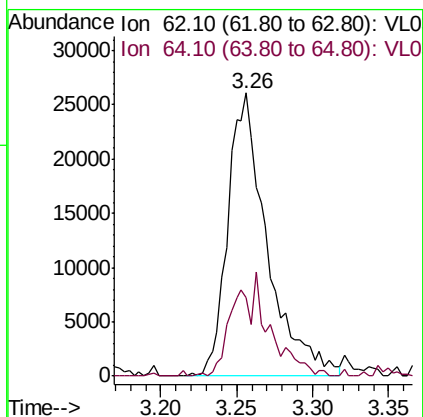
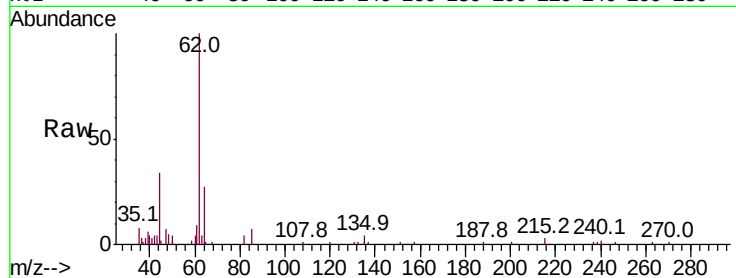
62 100

64 26.9 26.2 39.2

Manual Integrations
APPROVED

MMDadoda

1/18/2021 3:48:50 PM



#6

Bromomethane

Concen: 0.544 ppbv m

RT: 3.47 min Scan# 211

Delta R.T. -0.00 min

Lab File: VL036213.D

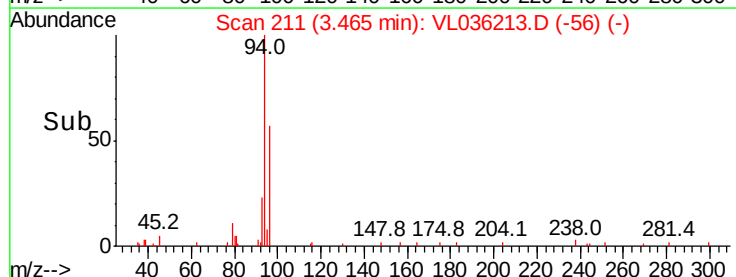
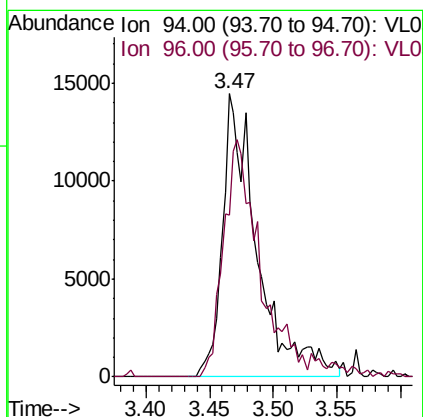
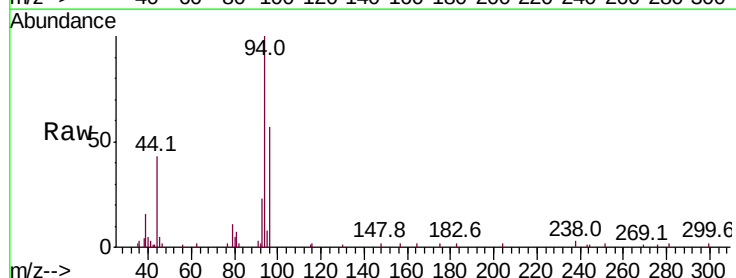
Acq: 13 Jan 2021 4:30

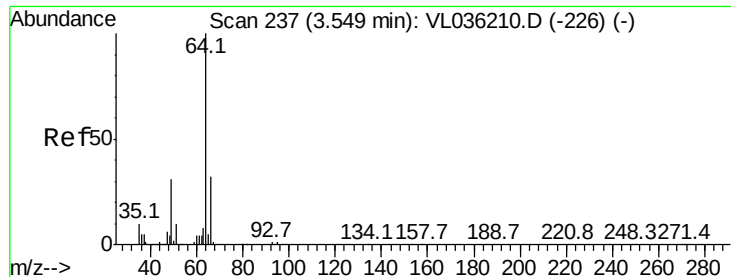
Tgt Ion: 94 Resp: 27429

Ion Ratio Lower Upper

94 100

96 57.3 71.9 107.9#





#7

Chloroethane

Concen: 0.508 ppbv m

RT: 3.56 min Scan# 239

Delta R.T. 0.01 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 16878

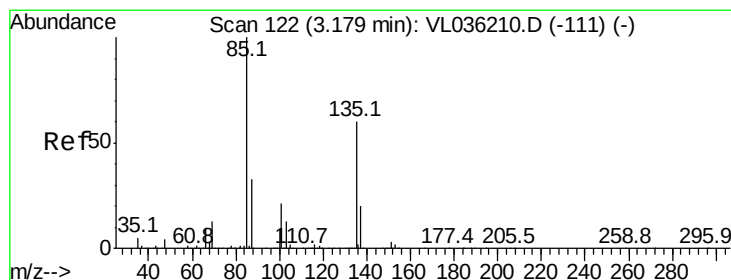
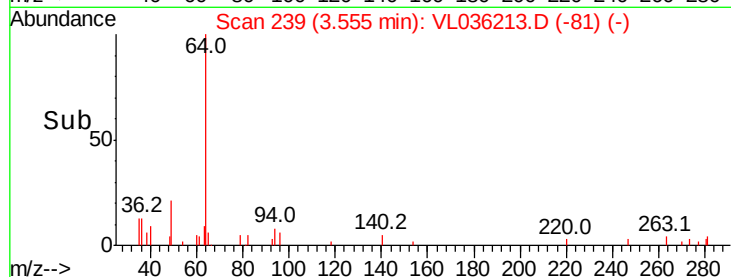
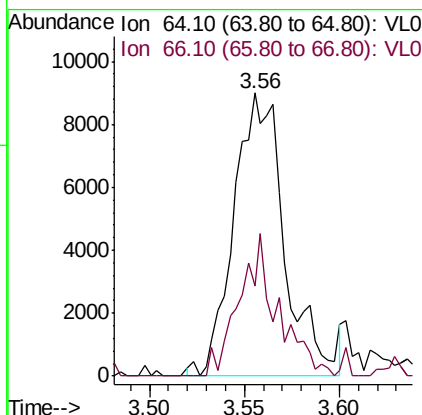
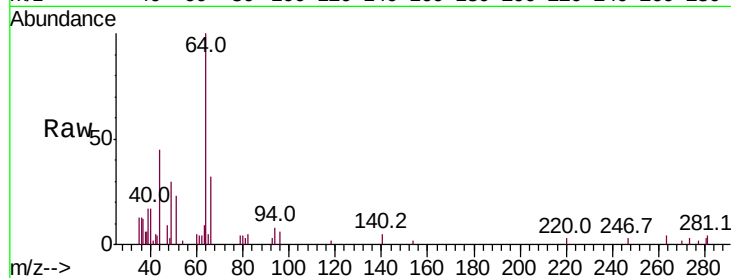
Ion Ratio Lower Upper

64 100

66 31.9 25.2 37.8

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:48:50 PM



#8

Dichlorotetrafluoroethane

Concen: 0.547 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.00 min

Lab File: VL036213.D

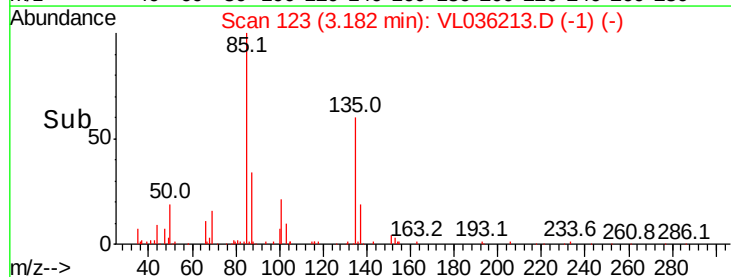
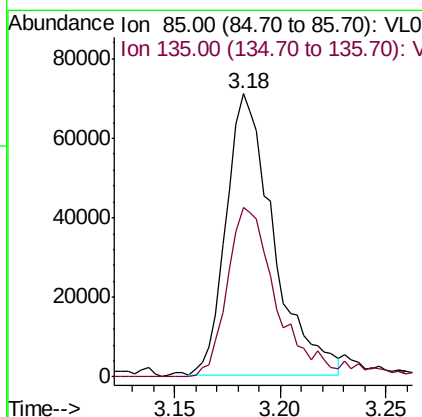
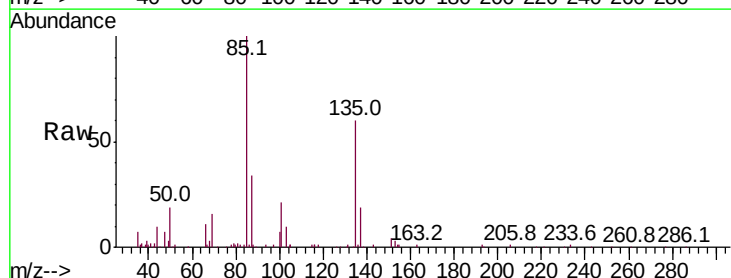
Acq: 13 Jan 2021 4:30

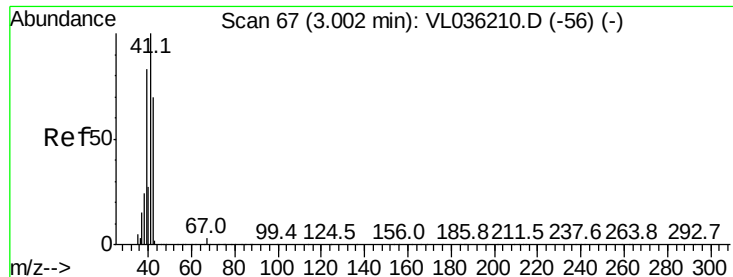
Tgt Ion: 85 Resp: 110920

Ion Ratio Lower Upper

85 100

135 65.2 51.5 77.3





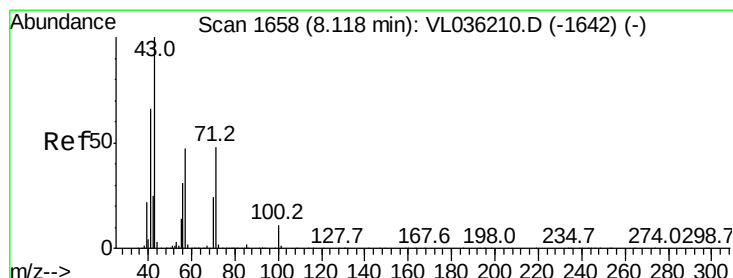
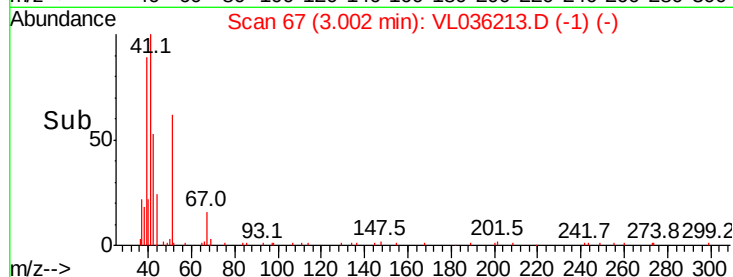
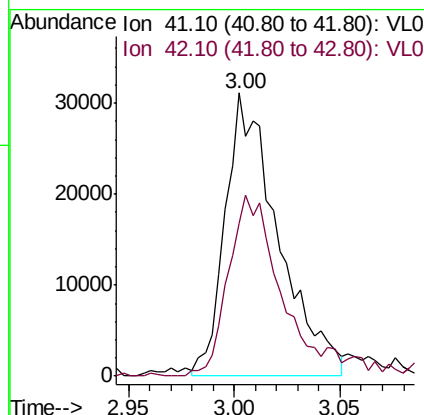
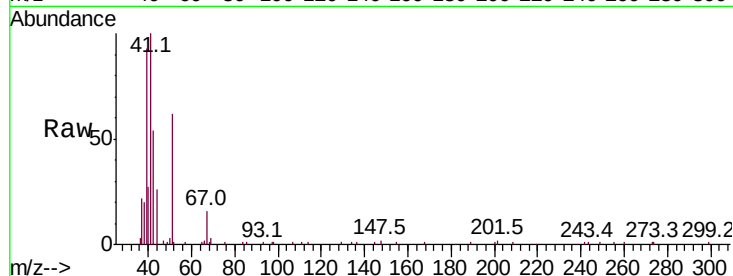
#9
 Propene
 Concen: 0.600 ppbv m
 RT: 3.00 min Scan# 67
 Delta R.T. 0.00 min
 Lab File: VL036213.D
 Acq: 13 Jan 2021 4:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion: 41 Resp: 54125
 Ion Ratio Lower Upper
 41 100
 42 0.0 57.1 85.7#

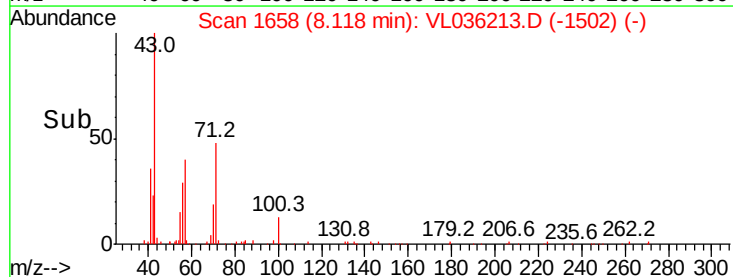
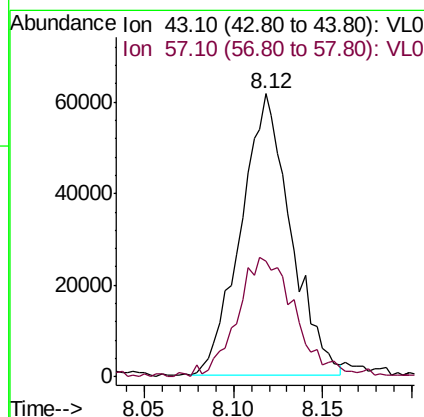
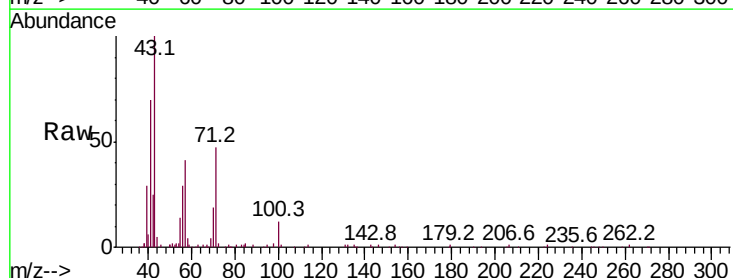
Manual Integrations
 APPROVED

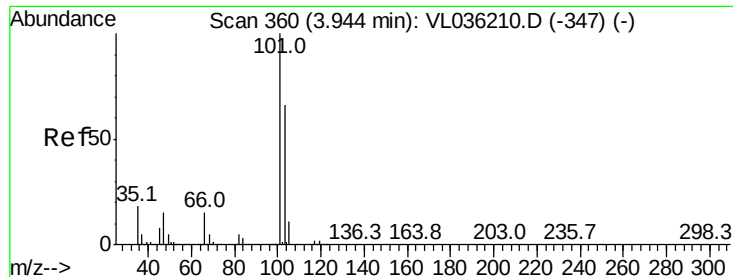
MMDadoda
 1/18/2021 3:48:50 PM



#10
 Heptane
 Concen: 0.520 ppbv
 RT: 8.12 min Scan# 1658
 Delta R.T. 0.00 min
 Lab File: VL036213.D
 Acq: 13 Jan 2021 4:30

Tgt Ion: 43 Resp: 119518
 Ion Ratio Lower Upper
 43 100
 57 50.7 38.1 57.1





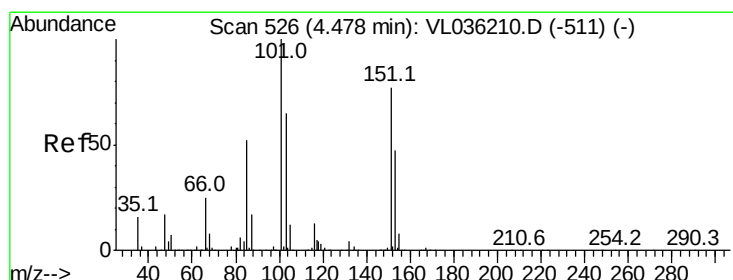
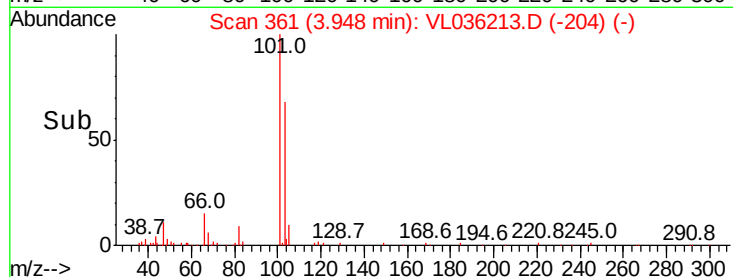
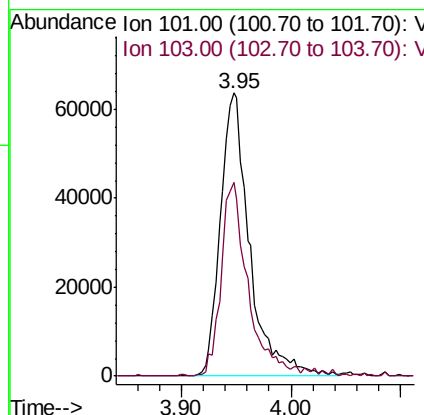
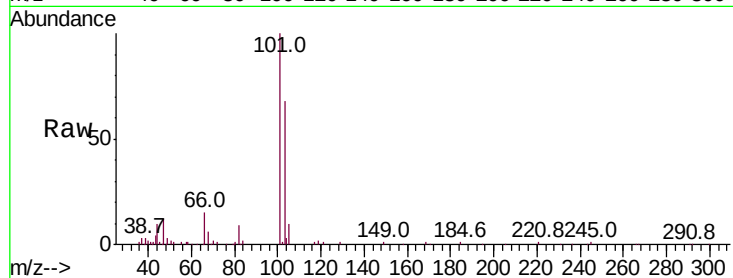
#11
 Trichlorofluoromethane
 Concen: 0.553 ppbv m
 RT: 3.95 min Scan# 361
 Delta R.T. 0.00 min
 Lab File: VL036213.D
 Acq: 13 Jan 2021 4:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
101	100	118351		
103	68.4	52.6	78.8	

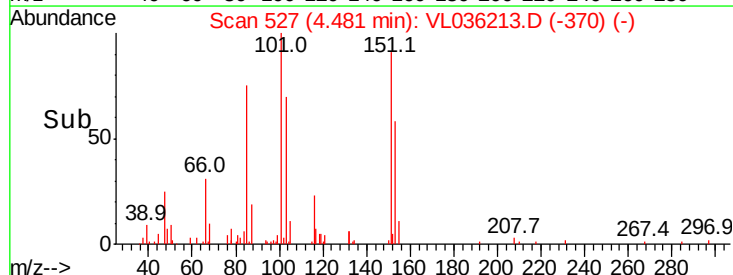
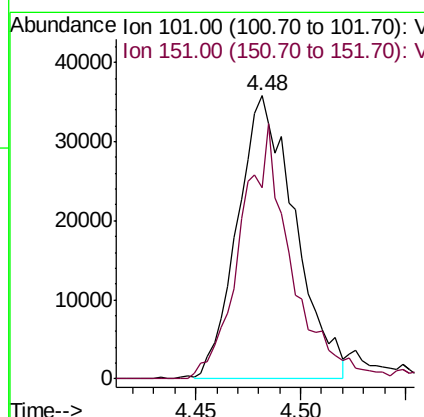
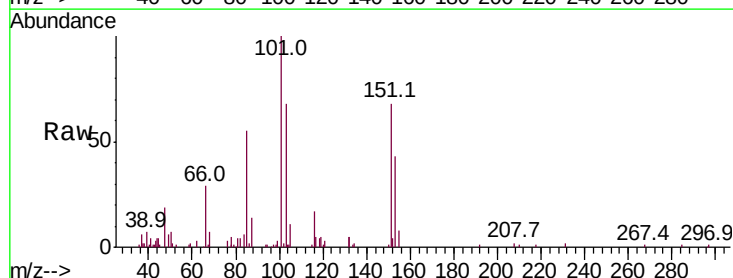
Manual Integrations
 APPROVED

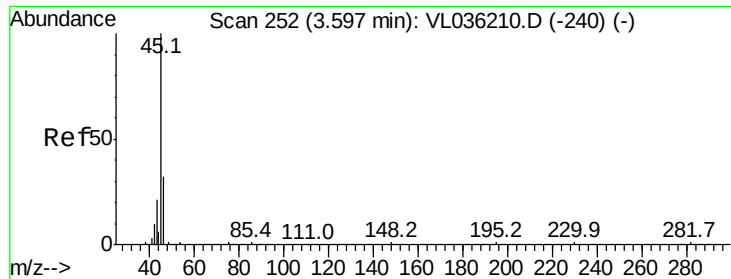
MMDadoda
 1/18/2021 3:48:50 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.477 ppbv m
 RT: 4.48 min Scan# 527
 Delta R.T. 0.00 min
 Lab File: VL036213.D
 Acq: 13 Jan 2021 4:30

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	68071		
151	80.5	59.8	89.6	





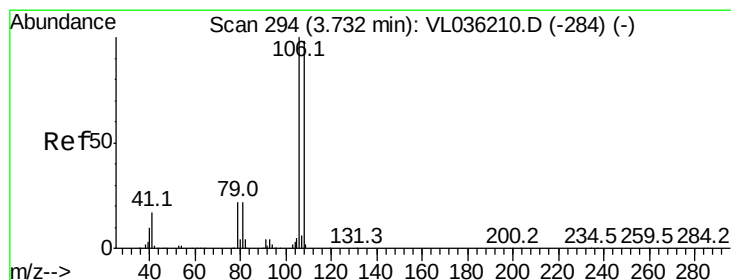
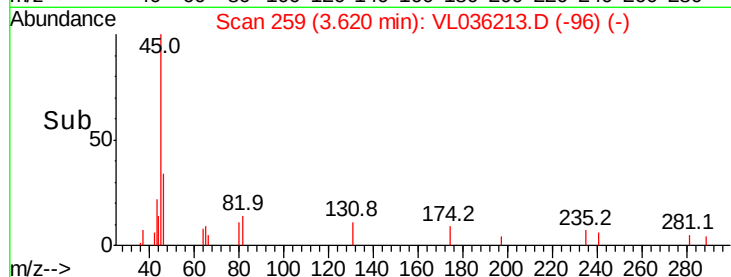
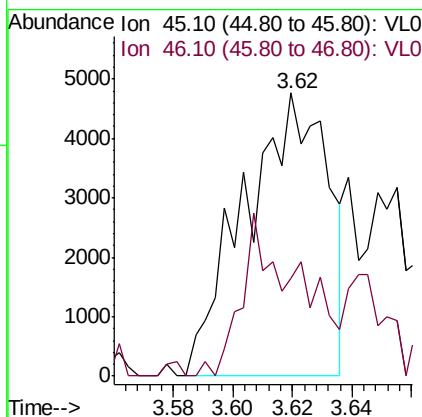
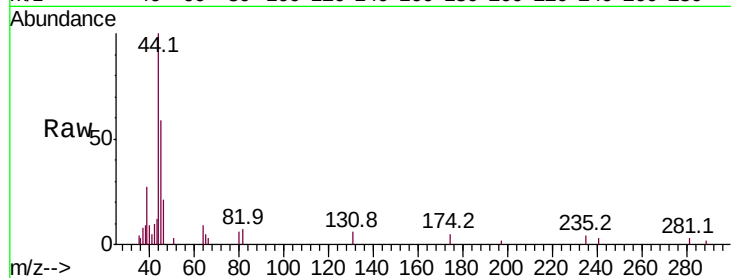
#13
Ethanol
Concen: 0.745 ppbv m
RT: 3.62 min Scan# 259
Delta R.T. 0.02 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 45 Resp: 9304
Ion Ratio Lower Upper
45 100
46 41.5 19.2 77.0

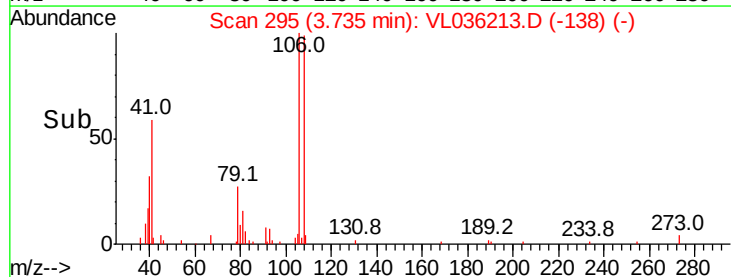
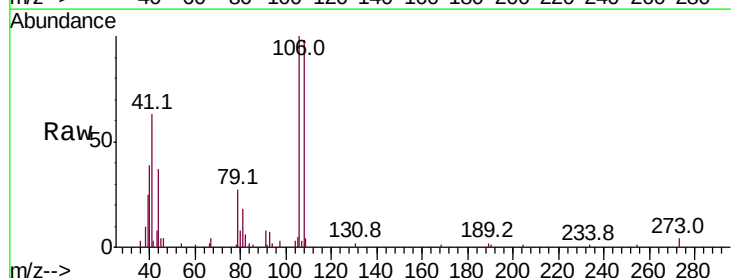
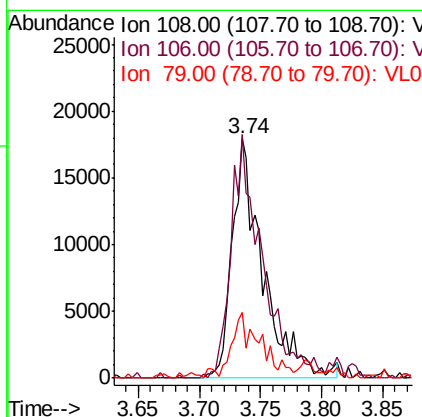
Manual Integrations
APPROVED

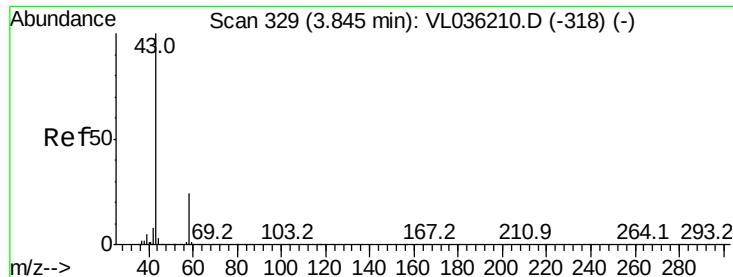
MMDadoda
1/18/2021 3:48:50 PM



#14
Bromoethene
Concen: 0.527 ppbv m
RT: 3.74 min Scan# 295
Delta R.T. 0.00 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Tgt Ion: 108 Resp: 31186
Ion Ratio Lower Upper
108 100
106 106.3 91.4 137.2
79 26.4 18.3 27.5





#15

Acetone

Concen: 0.631 ppbv m

RT: 3.86 min Scan# 334

Delta R.T. 0.02 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 118716

Ion Ratio Lower Upper

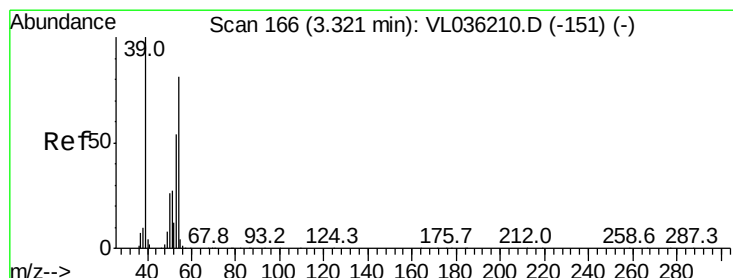
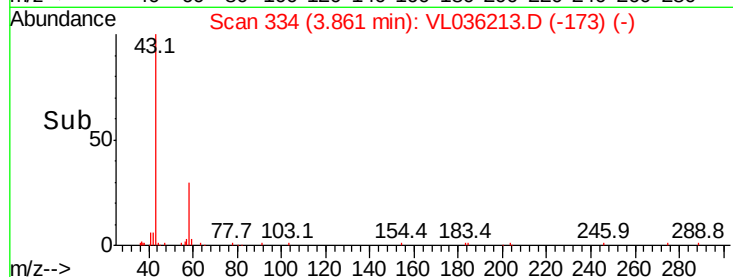
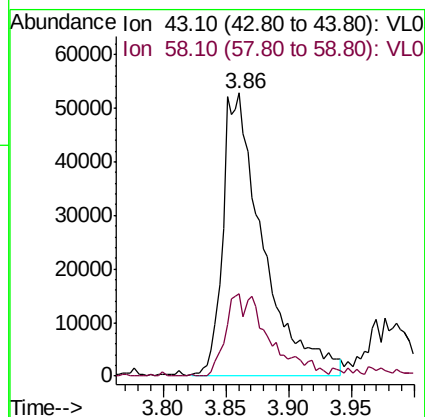
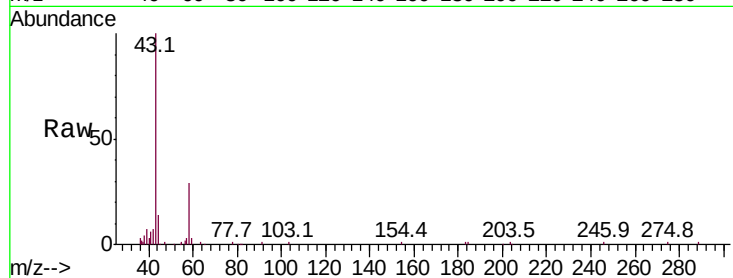
43 100

58 0.0 20.9 31.3#

Manual Integrations
APPROVED

MMDadoda

1/18/2021 3:48:50 PM



#16

1,3-Butadiene

Concen: 0.549 ppbv m

RT: 3.33 min Scan# 168

Delta R.T. 0.01 min

Lab File: VL036213.D

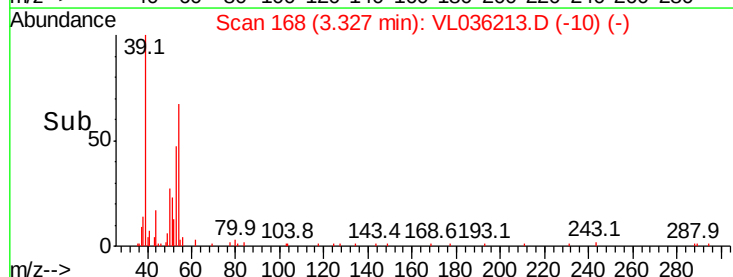
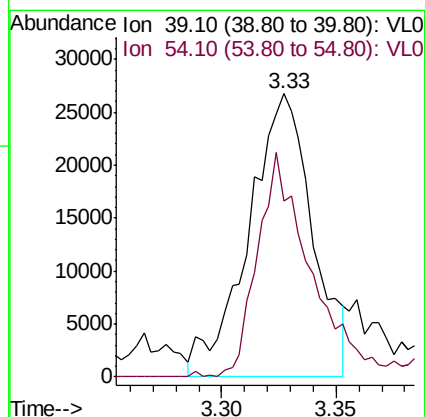
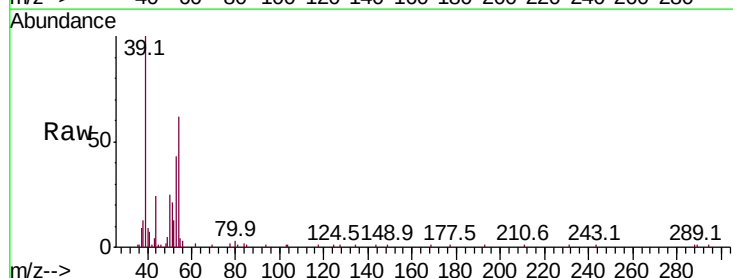
Acq: 13 Jan 2021 4:30

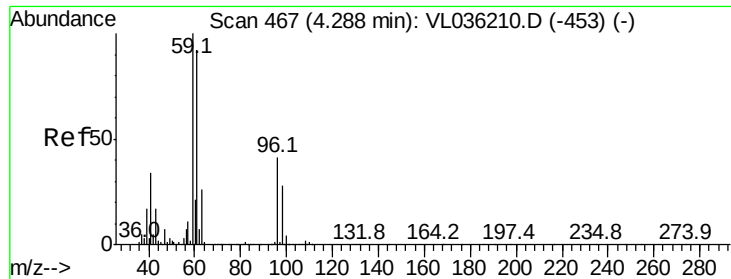
Tgt Ion: 39 Resp: 52111

Ion Ratio Lower Upper

39 100

54 66.2 62.5 93.7





#17

tert-Butyl alcohol

Concen: 0.491 ppbv m

RT: 4.30 min Scan# 472

Delta R.T. 0.02 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 59 Resp: 86876

Ion Ratio Lower Upper

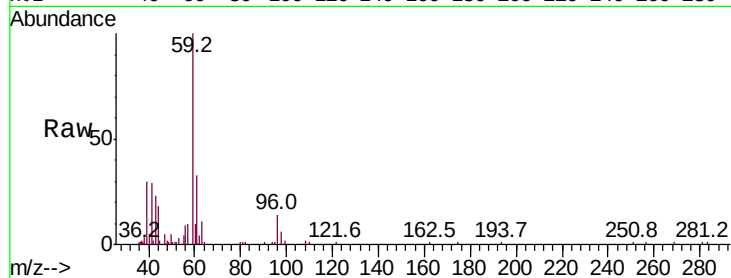
59 100

57 0.0 9.2 13.8#

Manual Integrations
APPROVED

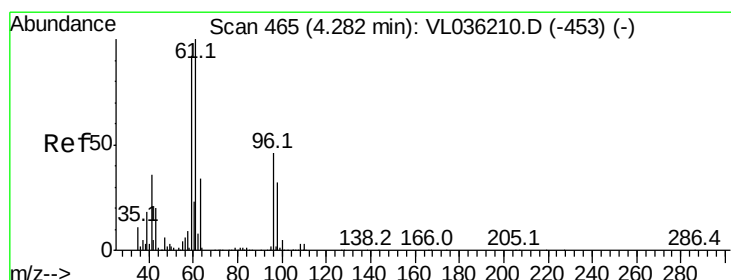
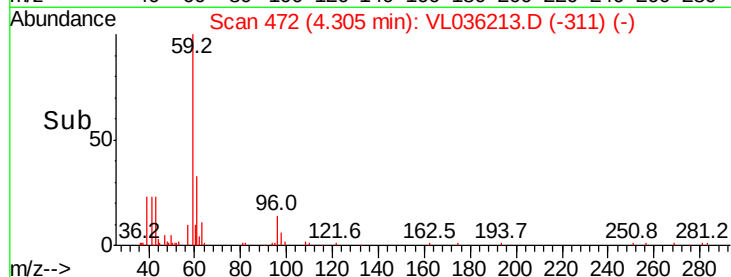
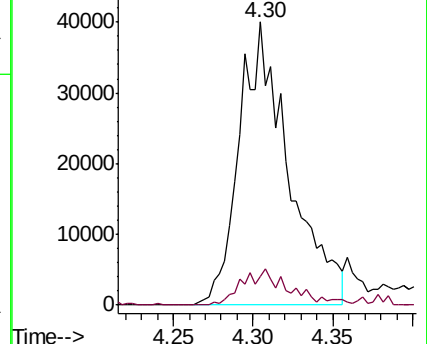
MMDadoda

1/18/2021 3:48:50 PM



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.516 ppbv m

RT: 4.29 min Scan# 467

Delta R.T. 0.01 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

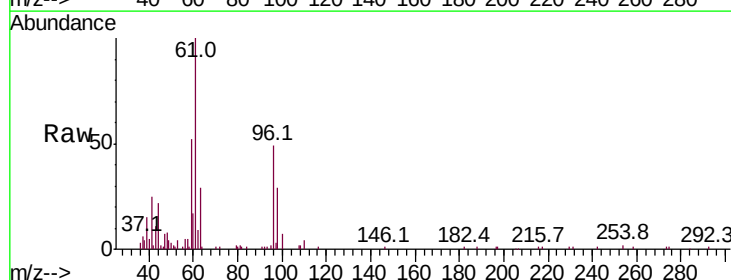
Tgt Ion: 96 Resp: 32728

Ion Ratio Lower Upper

96 100

61 203.0 173.4 260.0

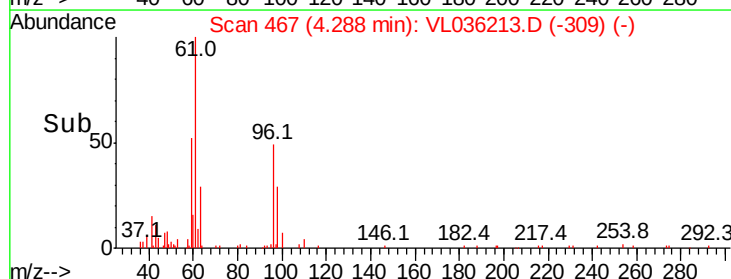
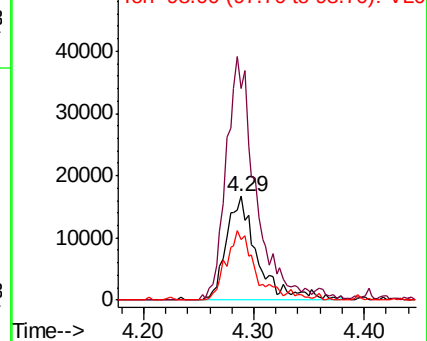
98 58.0 54.9 82.3

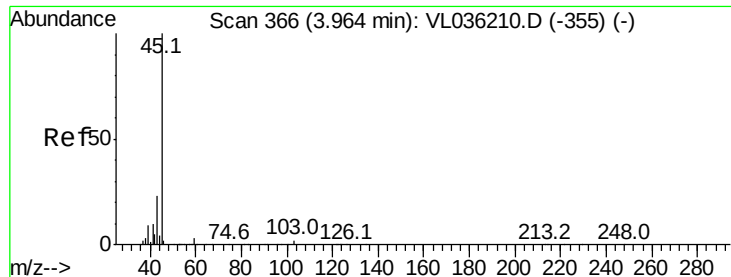


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.613 ppbv m

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 70455

Ion Ratio Lower Upper

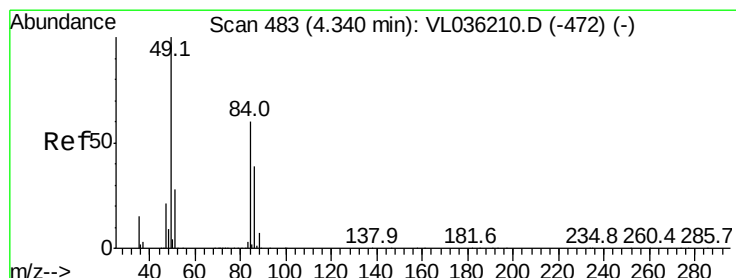
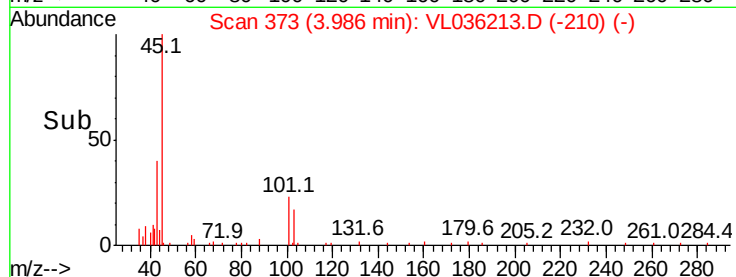
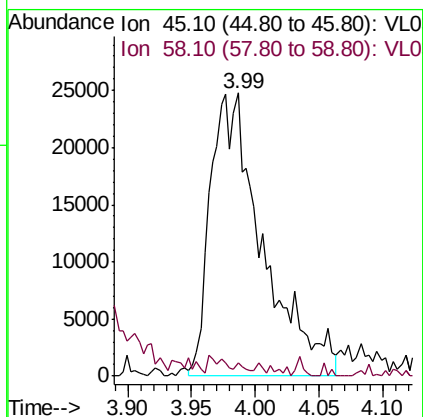
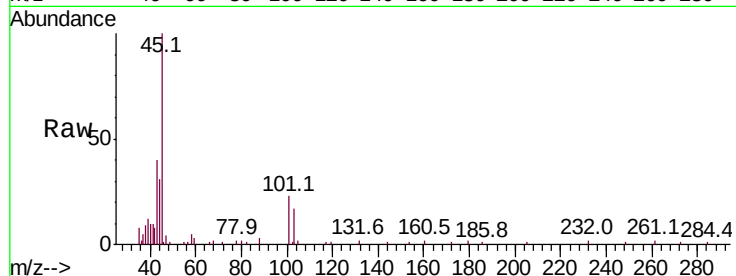
45 100

58 4.2 1.9 2.9#

Manual Integrations
APPROVED

MMDadoda

1/18/2021 3:48:50 PM



#20

Methylene Chloride

Concen: 0.512 ppbv m

RT: 4.34 min Scan# 483

Delta R.T. 0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Tgt Ion: 84 Resp: 38542

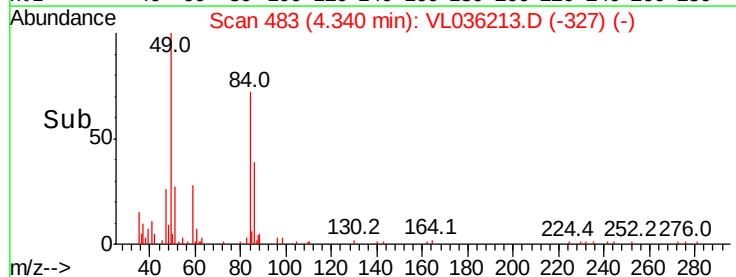
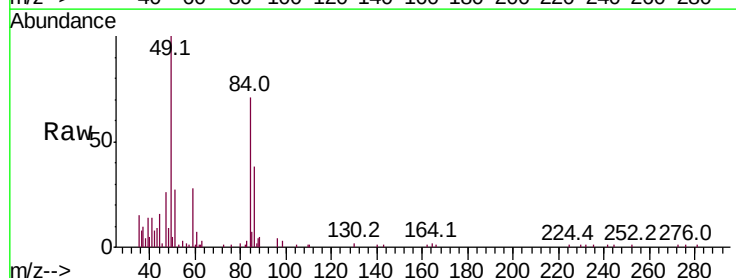
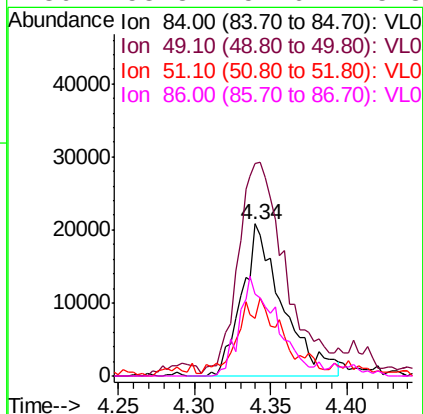
Ion Ratio Lower Upper

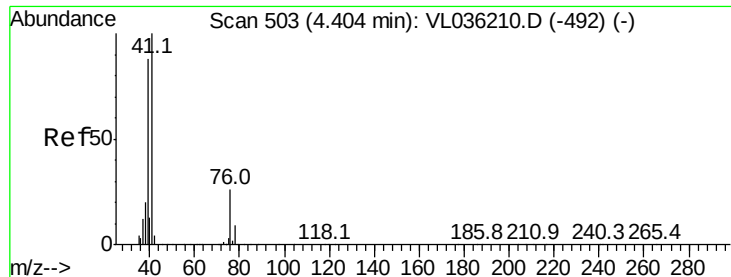
84 100

49 139.9 134.1 201.1

51 38.2 37.4 56.0

86 53.8 52.6 78.8





#21

Allvl Chloride

Concen: 0.414 ppbv

RT: 4.41 min Scan# 504

Delta R.T. 0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

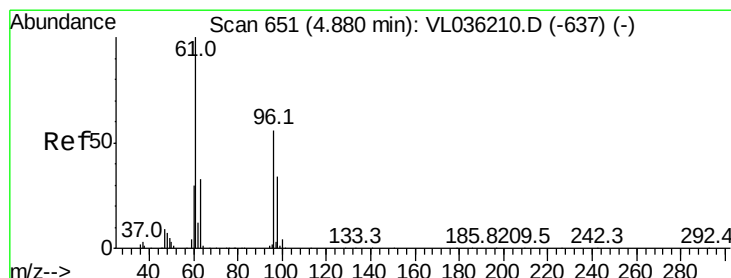
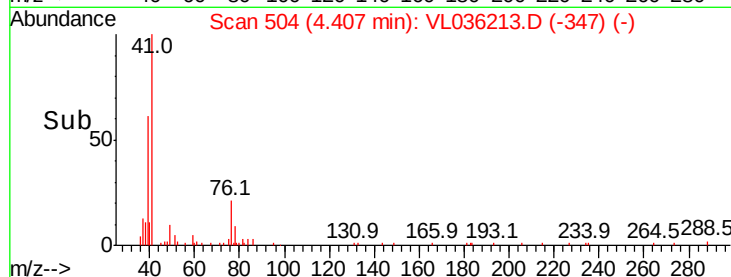
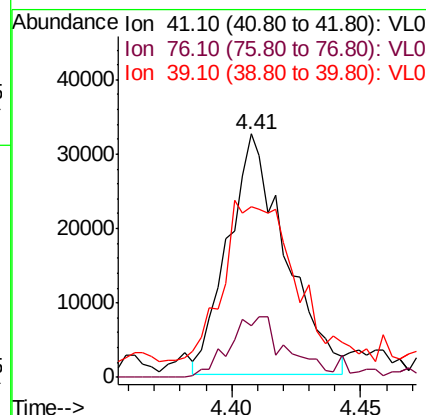
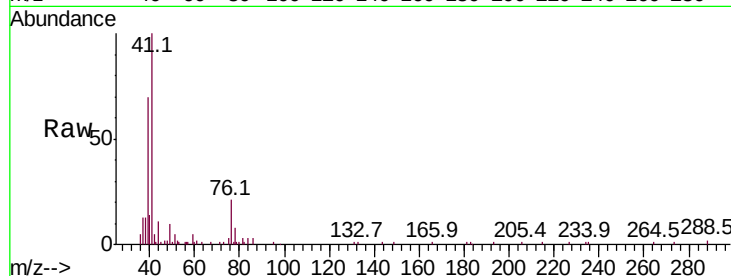
ClientSampleId :

VSTDIC0.5

Tot Ion:	41	Resp:	50517
Ion Ratio	Lower	Upper	
41	100		
76	29.6	20.5	30.7
39	87.8	67.8	101.8

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:48:50 PM



#22

trans-1,2-Dichloroethene

Concen: 0.466 ppbv m

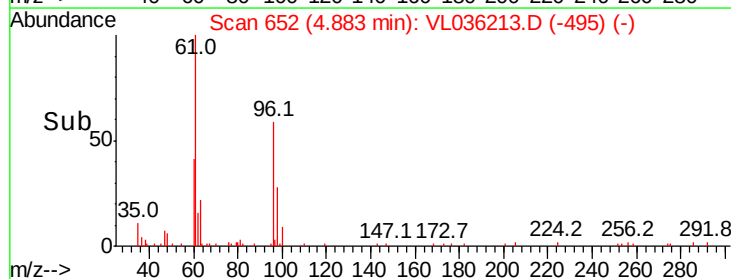
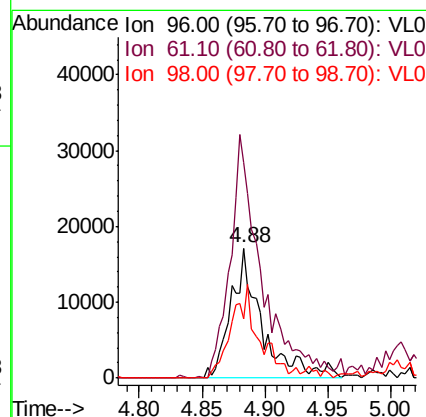
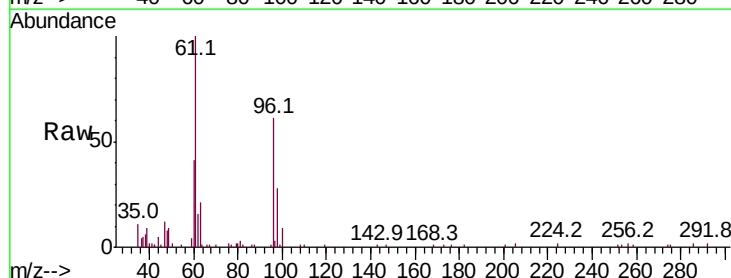
RT: 4.88 min Scan# 652

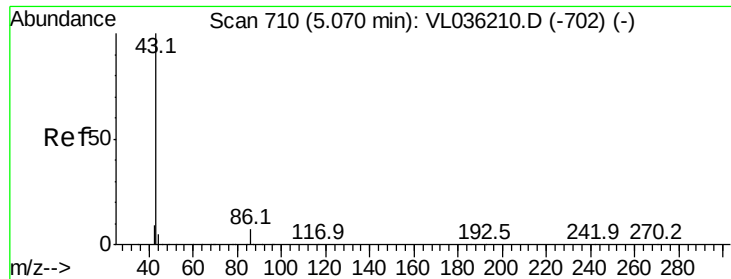
Delta R.T. 0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Tgt Ion:	96	Resp:	29409
Ion Ratio	Lower	Upper	
96	100		
61	165.2	142.7	214.1
98	45.8	48.7	73.1#





#23

Vinyl Acetate

Concen: 0.428 ppbv

RT: 5.07 min Scan# 711

Delta R.T. 0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 106922

Ion Ratio Lower Upper

43 100

86 4.8 4.9 7.3#

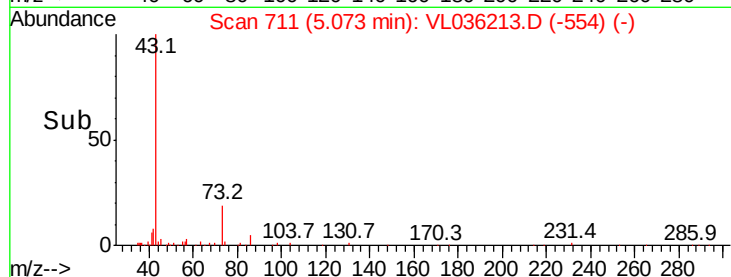
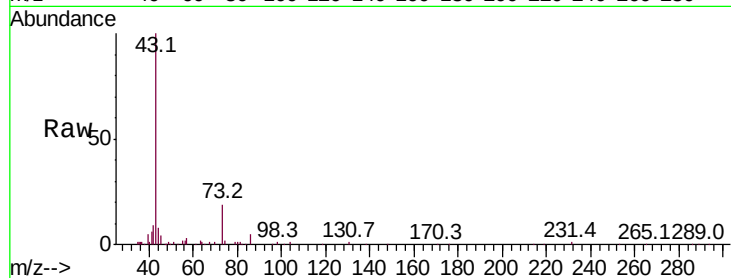
42 7.6 7.8 11.6#

44 5.1 3.7 5.5

Manual Integrations
APPROVED

MMDadoda

1/18/2021 3:48:50 PM

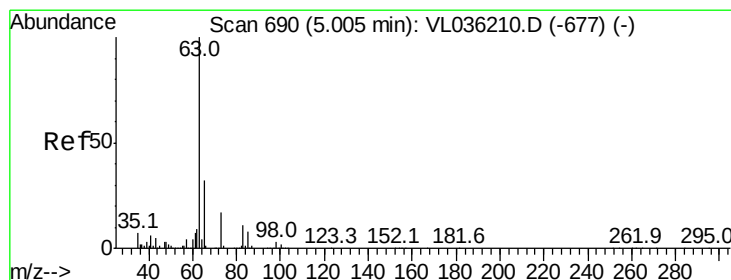
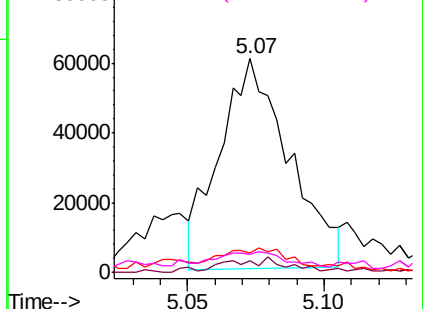


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.487 ppbv

RT: 5.01 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

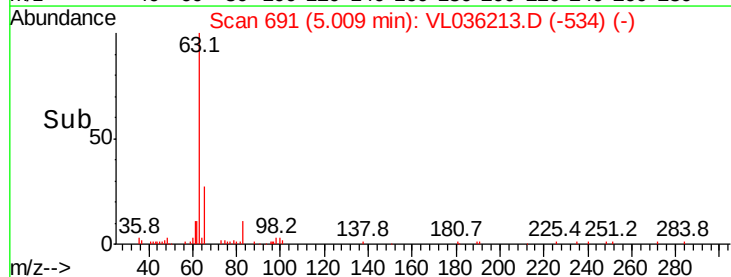
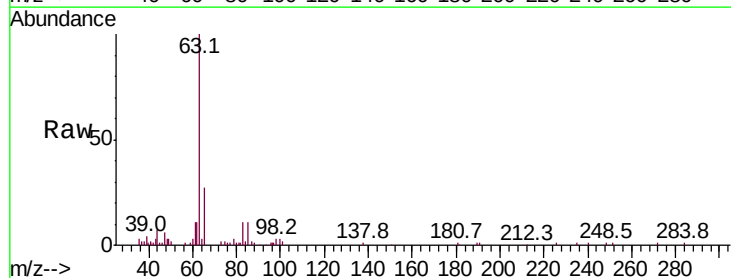
Tgt Ion: 63 Resp: 85693

Ion Ratio Lower Upper

63 100

98 2.0 1.7 5.1

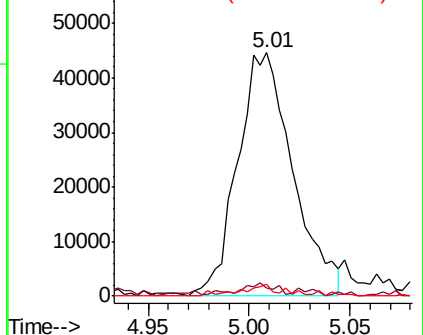
100 5.0 1.1 3.1#

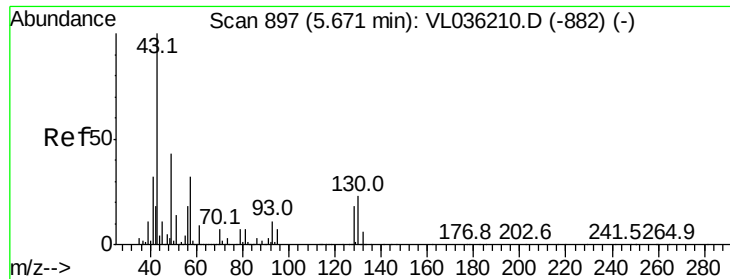


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





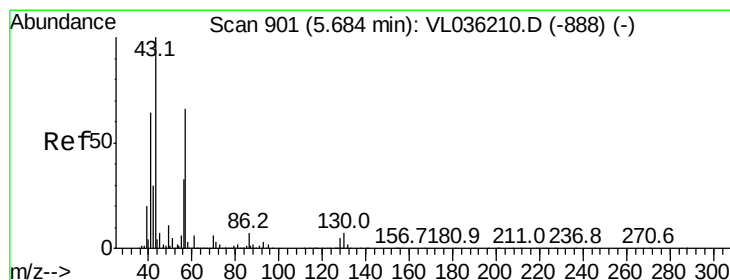
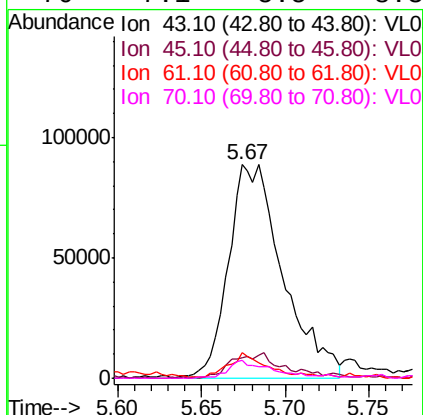
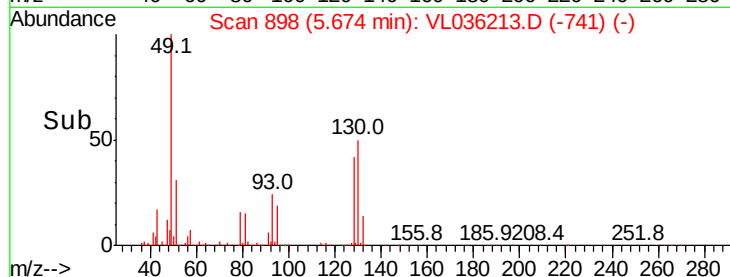
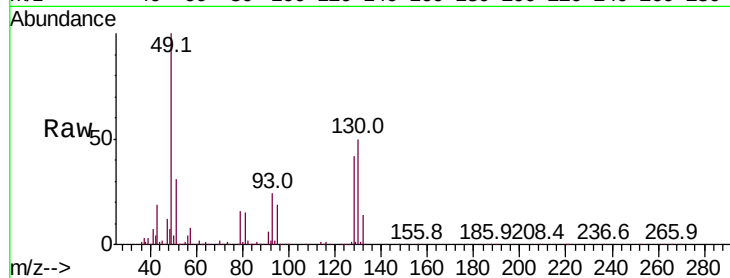
#25
Ethyl Acetate
Concen: 0.533 ppbv m
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Instrument :
MSVOA_L
ClientSampled :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
45	0.0	8.3	12.5#	
61	9.4	7.4	11.2	
70	7.1	5.5	8.3	

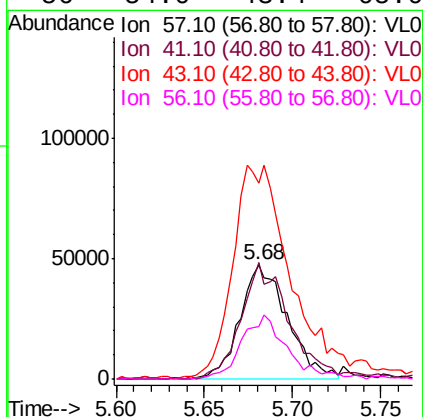
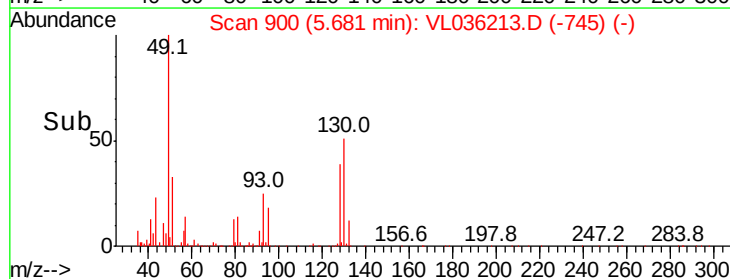
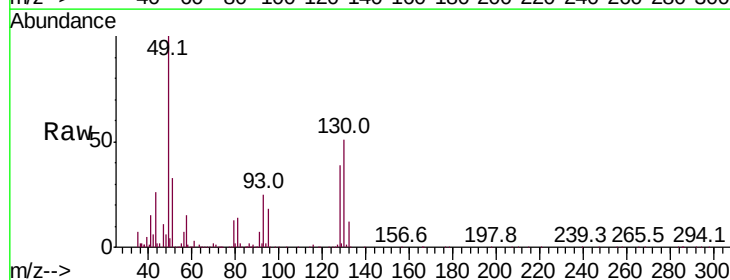
Manual Integrations
APPROVED

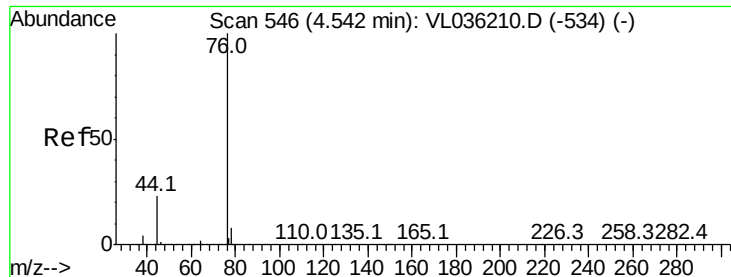
MMDadoda
1/18/2021 3:48:50 PM



#26
Hexane
Concen: 0.522 ppbv m
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Tgt Ion	Ratio	Resp	Lower	Upper
57	100			
41	105.8	83.0	124.6	
43	249.3	202.4	303.6	
56	54.0	43.4	65.0	





#27

Carbon Disulfide

Concen: 0.363 ppbv m

RT: 4.55 min Scan# 549

Delta R.T. 0.01 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

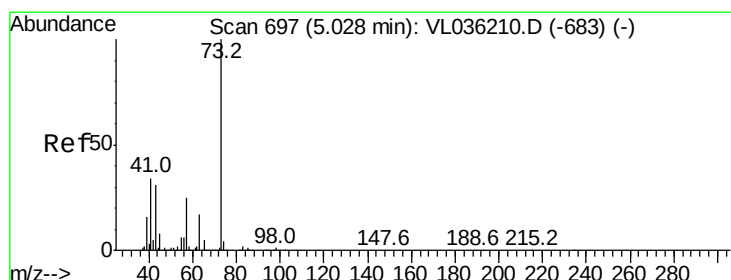
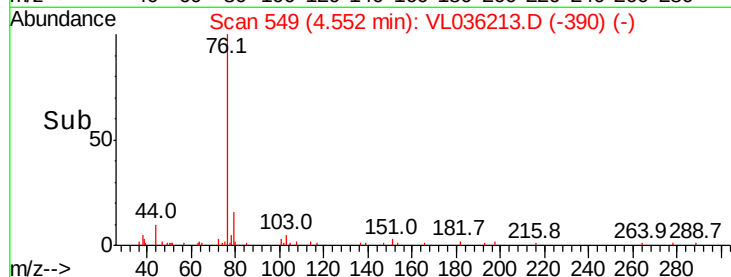
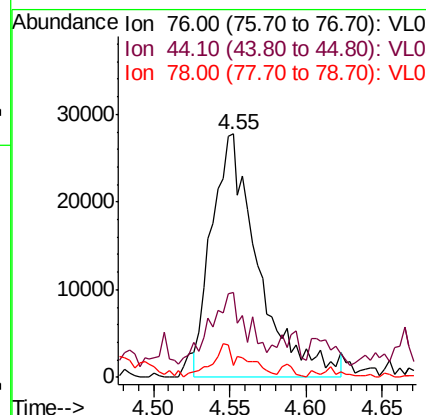
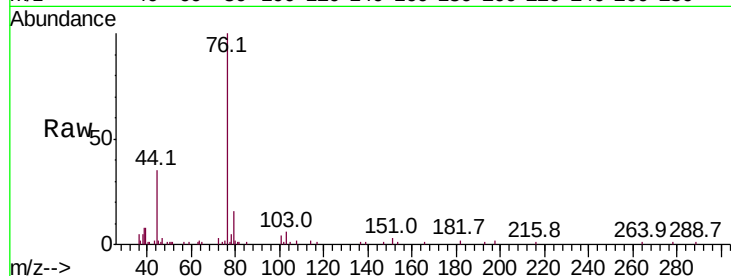
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	59014
Ion Ratio	Lower	Upper	
76	100		
44	25.0	19.0	28.6
78	12.8	8.0	12.0#

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:48:50 PM



#28

Methyl tert-Butyl Ether

Concen: 0.510 ppbv m

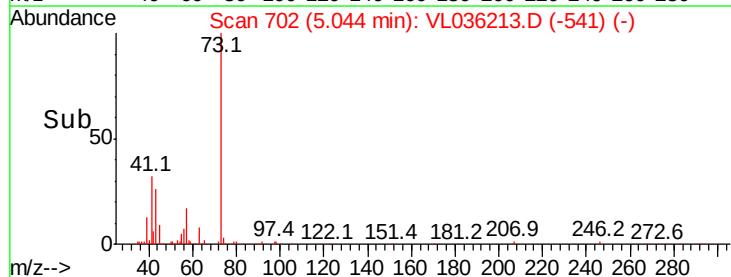
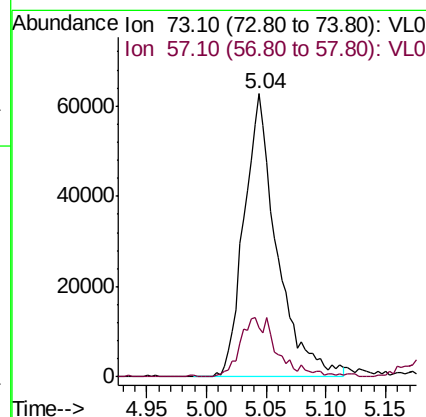
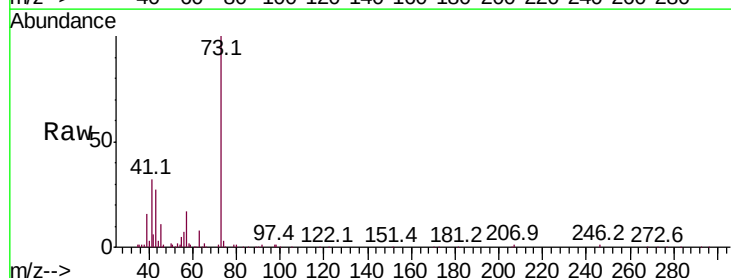
RT: 5.04 min Scan# 702

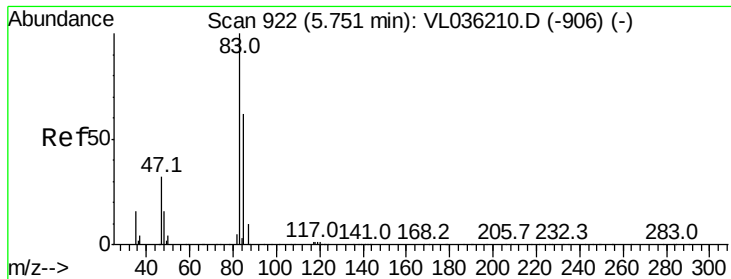
Delta R.T. 0.02 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Tgt Ion:	73	Resp:	119874
Ion Ratio	Lower	Upper	
73	100		
57	23.9	20.4	30.6





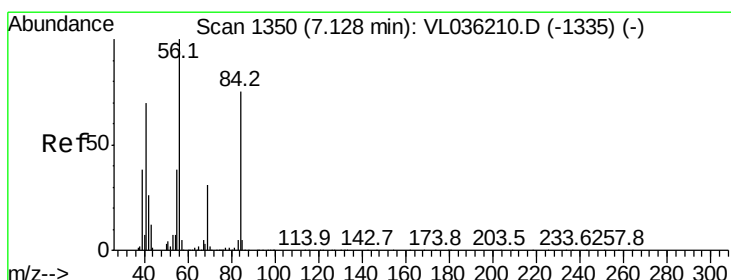
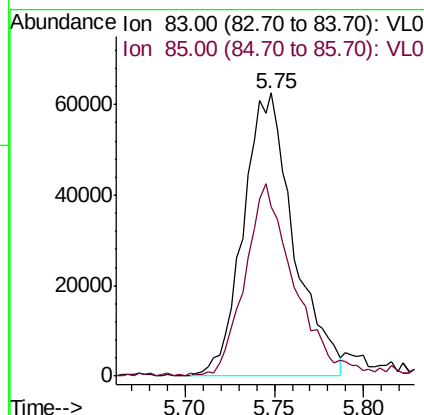
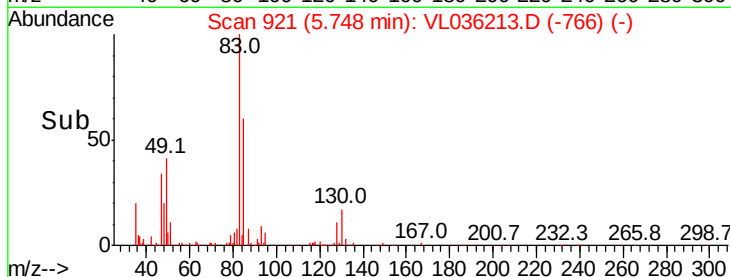
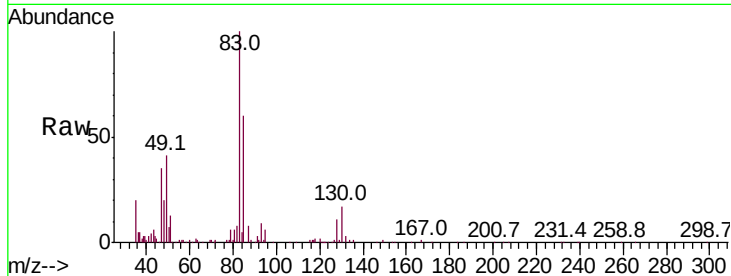
#29
Chloroform
Concen: 0.549 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.00 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
83	100		
85	58.7	49.3	73.9

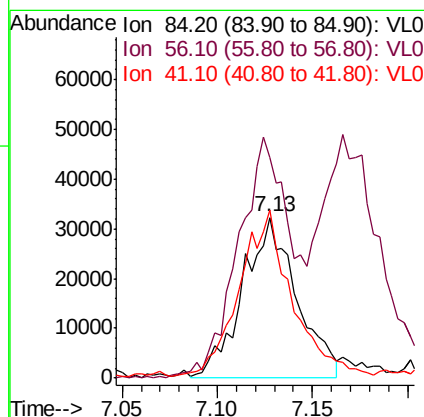
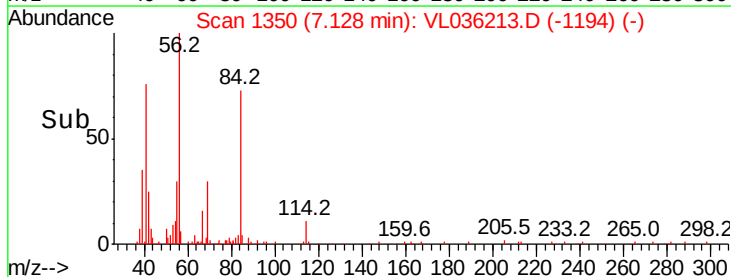
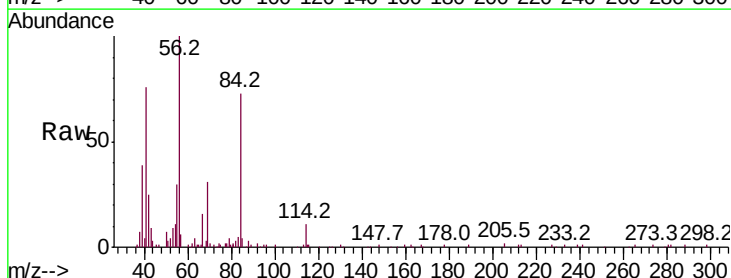
Manual Integrations
APPROVED

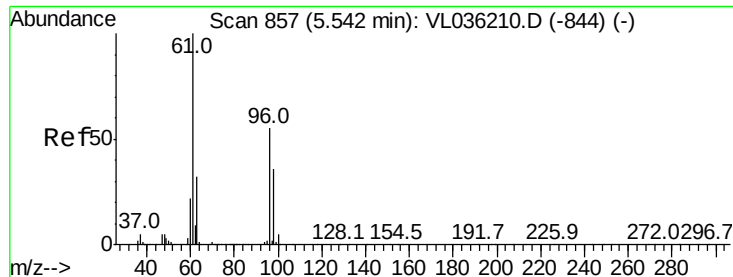
MMDadoda
1/18/2021 3:48:50 PM



#30
Cyclohexane
Concen: 0.504 ppbv m
RT: 7.13 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Tgt Ion	Ratio	Lower	Upper
84	100		
56	146.8	119.4	179.0
41	110.8	79.4	119.0





#31

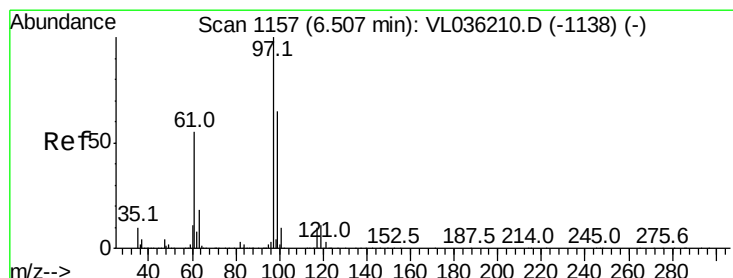
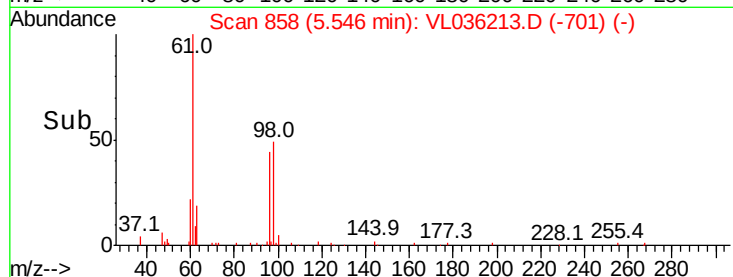
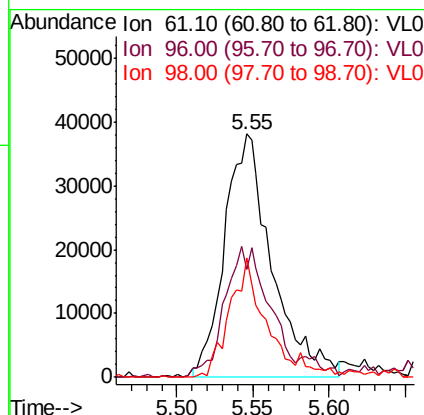
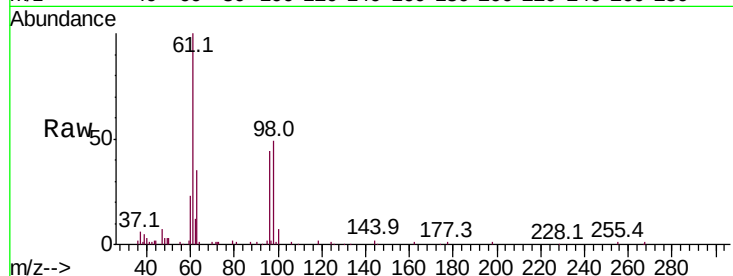
cis-1,2-Dichloroethene
Concen: 0.531 ppbv m
RT: 5.55 min Scan# 858
Delta R.T. 0.00 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	44.3	44.1	66.1
98	49.2	28.6	42.8#

Manual Integrations
APPROVED

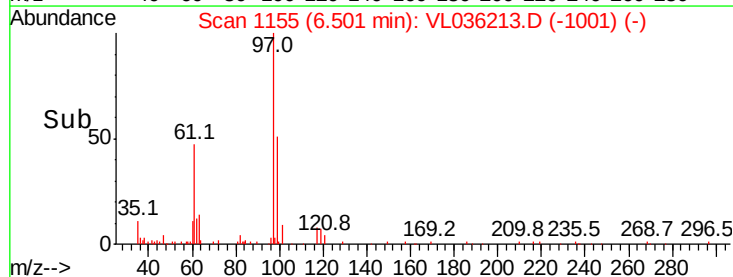
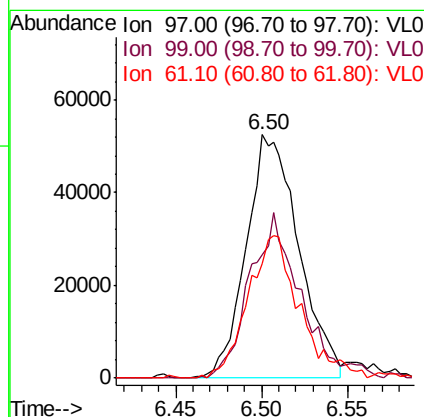
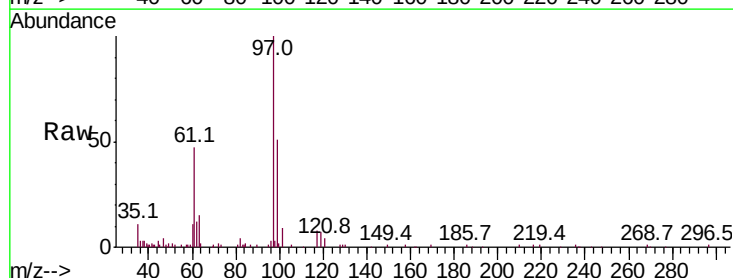
MMDadoda
1/18/2021 3:48:50 PM

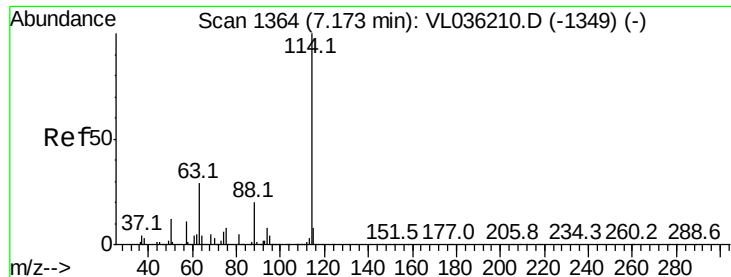


#32

1,1,1-Trichloroethane
Concen: 0.483 ppbv
RT: 6.50 min Scan# 1155
Delta R.T. -0.01 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.2	52.0	78.0
61	59.1	43.6	65.4





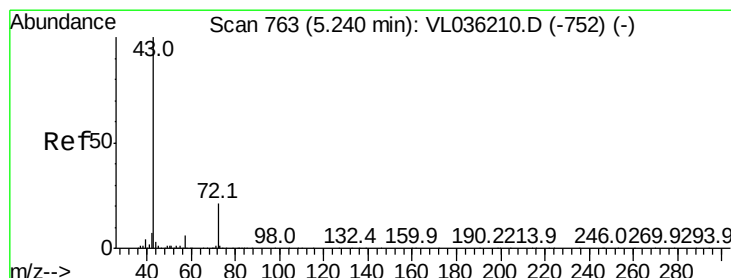
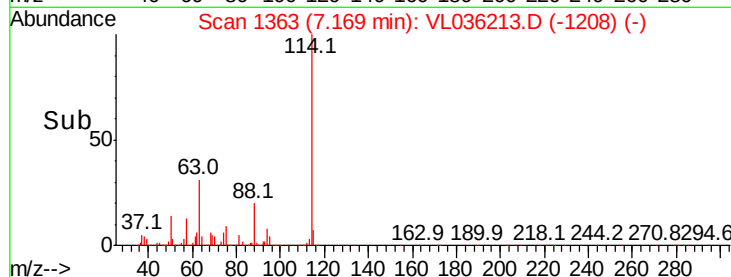
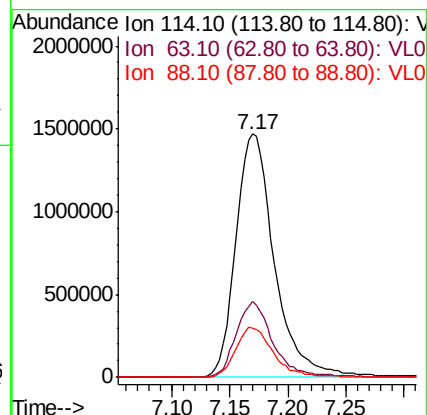
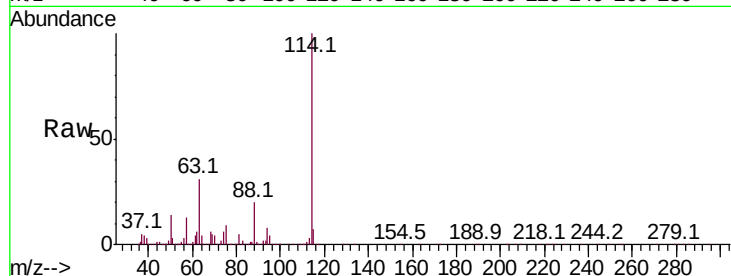
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.00 min
 Lab File: VL036213.D
 Acq: 13 Jan 2021 4:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.3	24.7	37.1
88	20.4	16.6	24.8

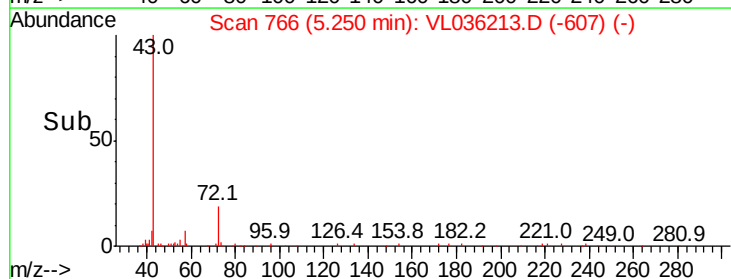
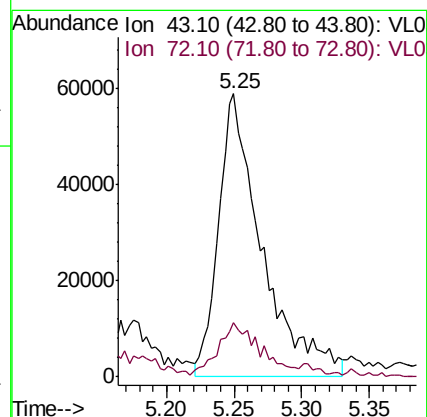
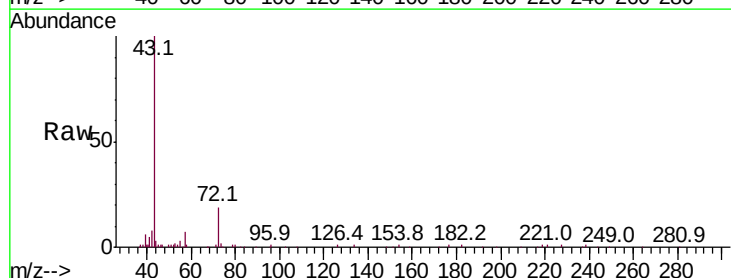
Manual Integrations
 APPROVED

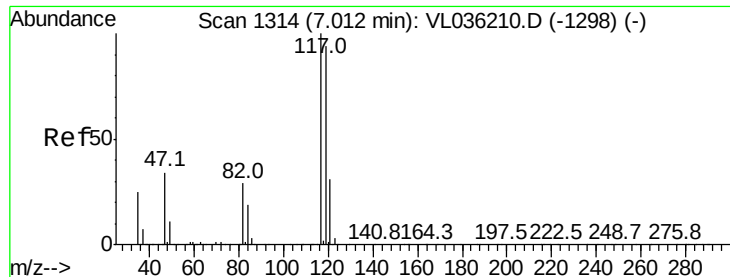
MMDadoda
 1/18/2021 3:48:50 PM



#34
 2-Butanone
 Concen: 0.582 ppbv m
 RT: 5.25 min Scan# 766
 Delta R.T. 0.01 min
 Lab File: VL036213.D
 Acq: 13 Jan 2021 4:30

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.7	16.1	24.1





#35

Carbon Tetrachloride

Concen: 0.538 ppbv m

RT: 7.01 min Scan# 1314

Delta R.T. 0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

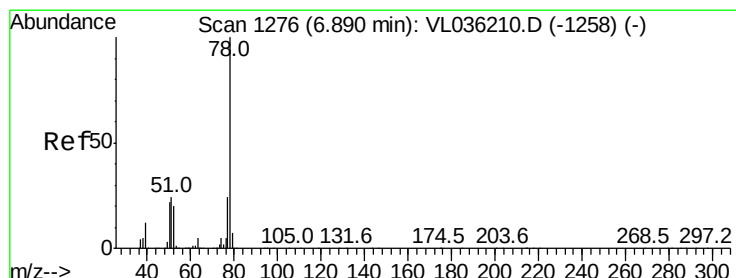
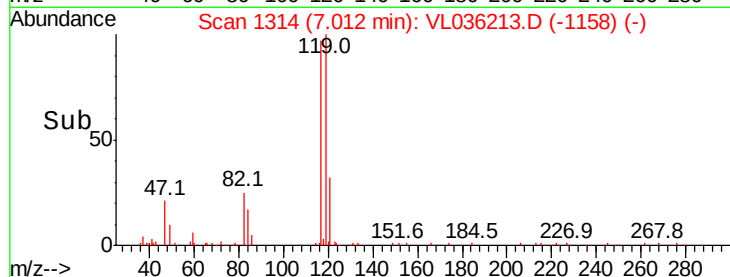
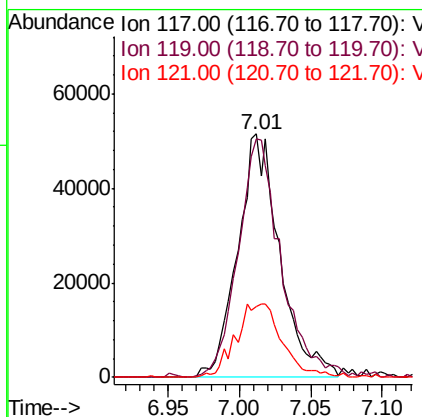
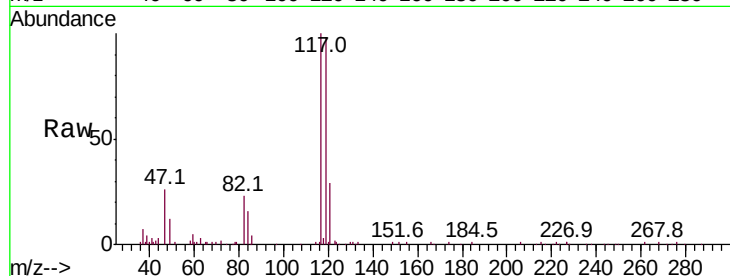
ClientSampleId :

VSTDIC0.5

Tot Ion:	117	Resp:	105756
Ion Ratio	Lower	Upper	
117	100		
119	98.2	74.9	112.3
121	29.0	25.0	37.6

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:48:50 PM



#36

Benzene

Concen: 0.568 ppbv

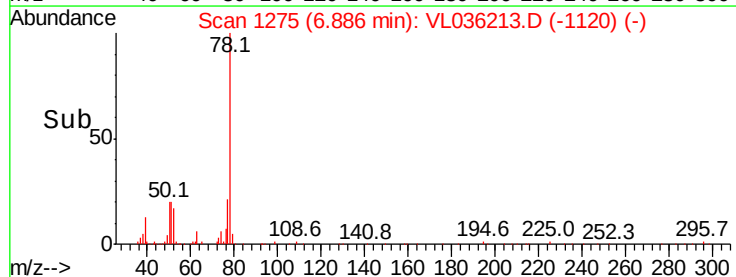
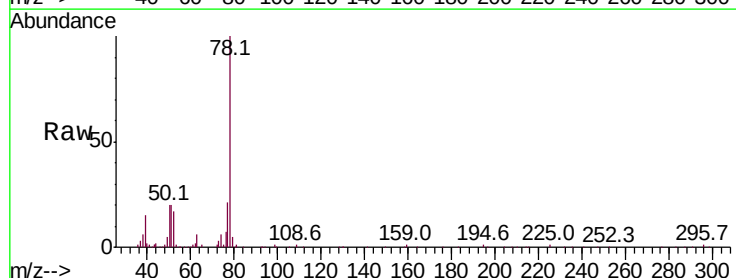
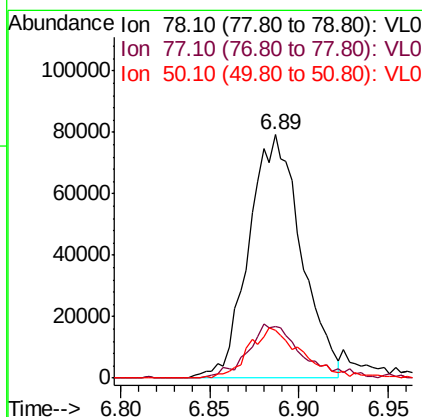
RT: 6.89 min Scan# 1275

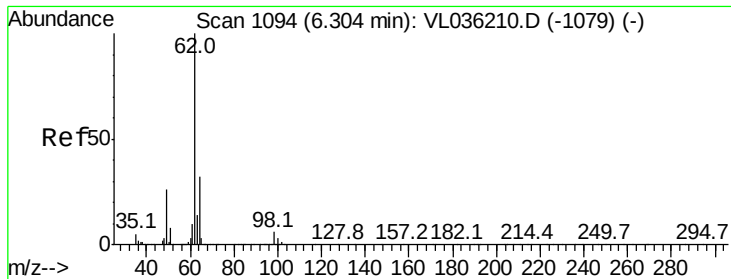
Delta R.T. -0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Tgt Ion:	78	Resp:	162818
Ion Ratio	Lower	Upper	
78	100		
77	21.0	19.4	29.0
50	19.8	17.4	26.2





#37

1,2-Dichloroethane

Concen: 0.594 ppbv

RT: 6.30 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

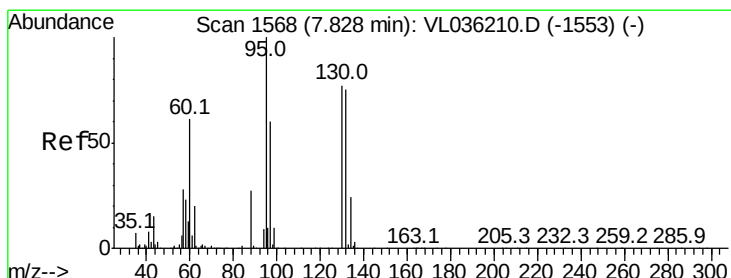
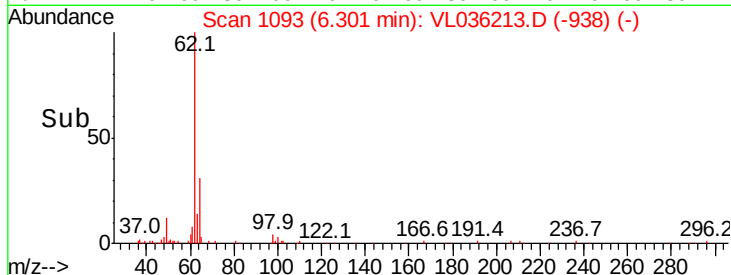
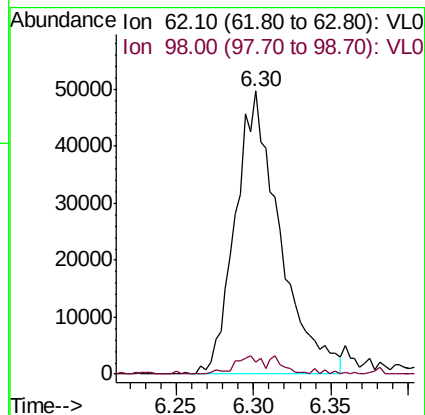
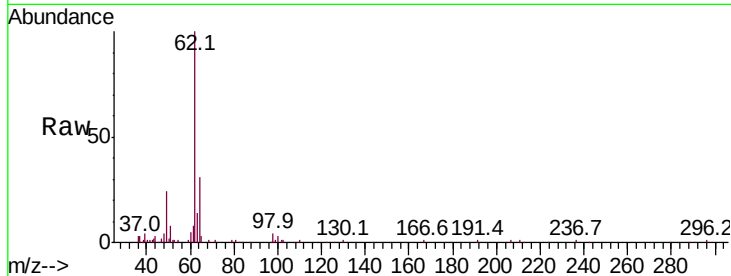
ClientSampleId :

VSTDIC0.5

Tot Ion:	62	Resp:	99241
Ion Ratio	Lower	Upper	
62	100		
98	6.4	4.4	6.6

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:48:50 PM



#38

Trichloroethene

Concen: 0.536 ppbv m

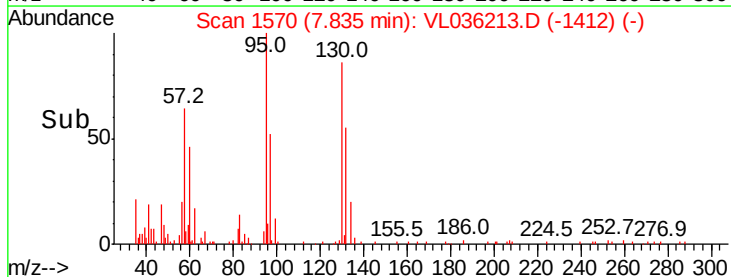
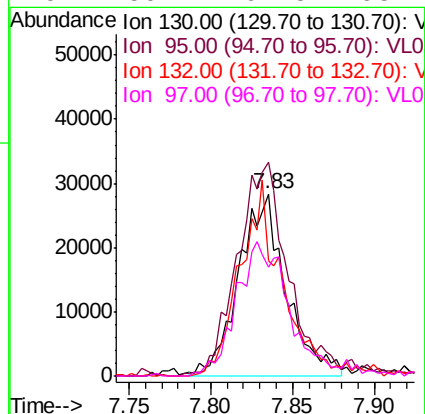
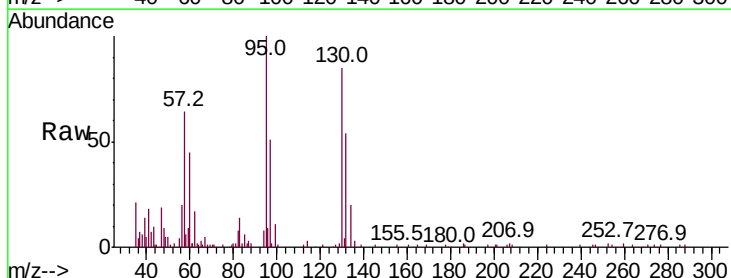
RT: 7.83 min Scan# 1570

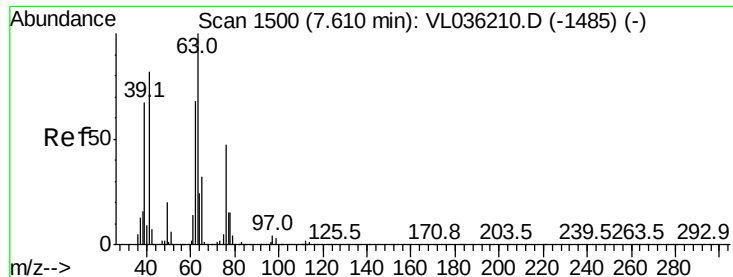
Delta R.T. 0.01 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Tgt Ion:	130	Resp:	56764
Ion Ratio	Lower	Upper	
130	100		
95	117.2	103.9	155.9
132	63.2	77.4	116.2#
97	59.7	62.5	93.7#





#39

1,2-Dichloropropane

Concen: 0.601 ppbv

RT: 7.61 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VL036213.D

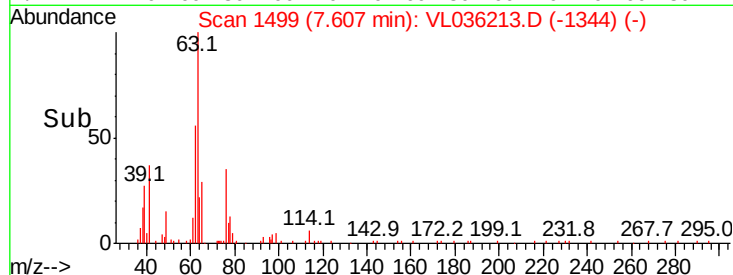
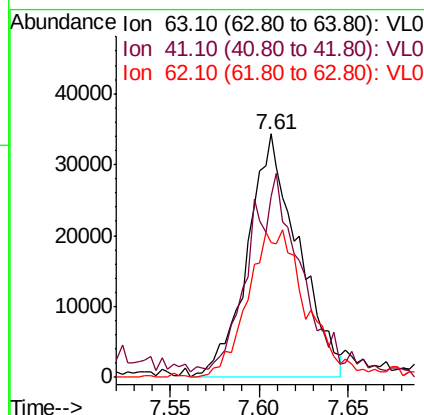
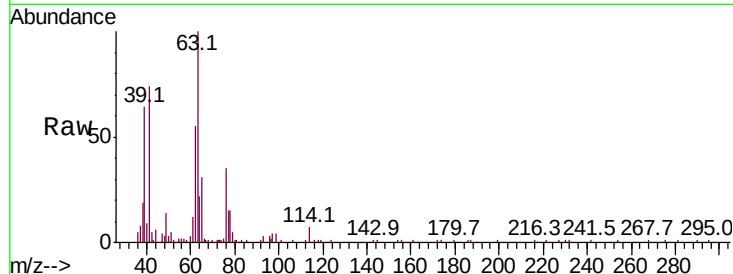
Acq: 13 Jan 2021 4:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
63	100		
41	71.7	66.1	99.1
62	55.2	54.8	82.2

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:48:50 PM



#40

1,4-Dioxane

Concen: 0.794 ppbv m

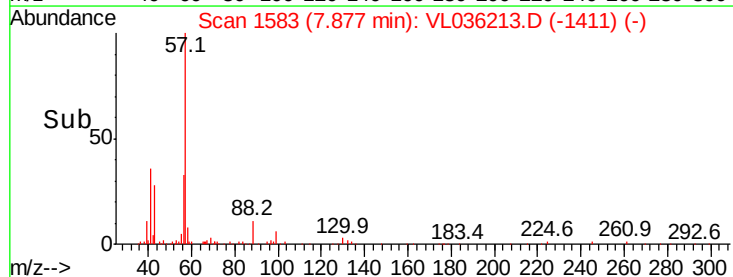
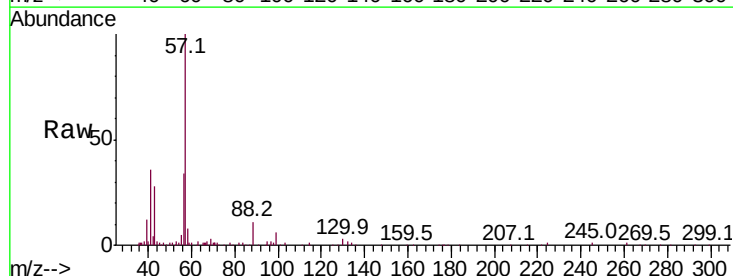
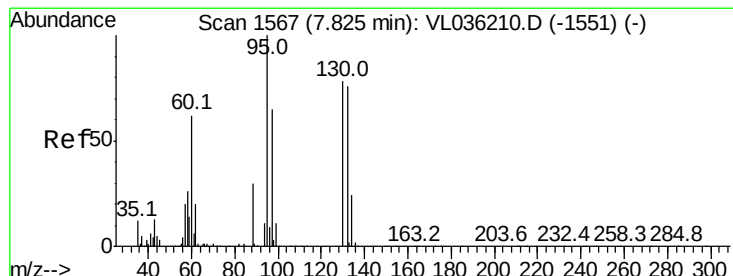
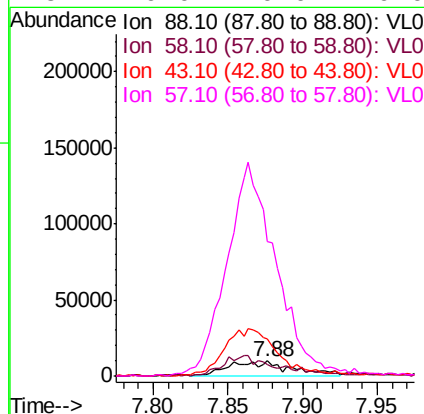
RT: 7.88 min Scan# 1583

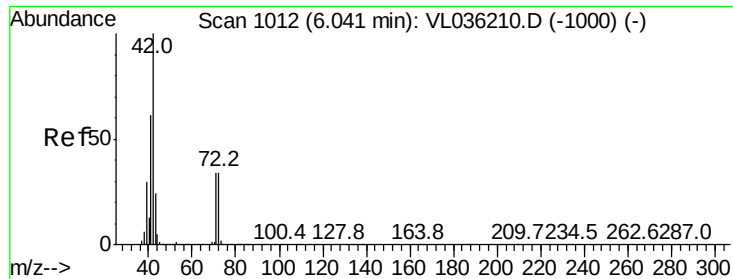
Delta R.T. 0.05 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	123.0	184.6#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





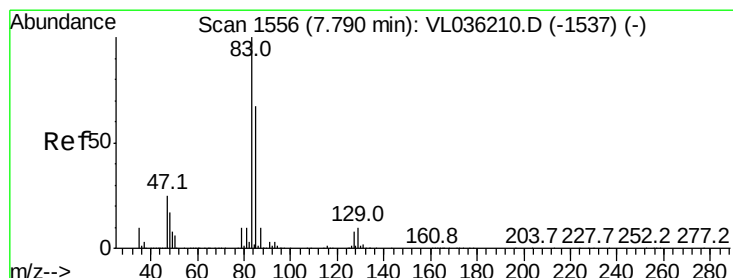
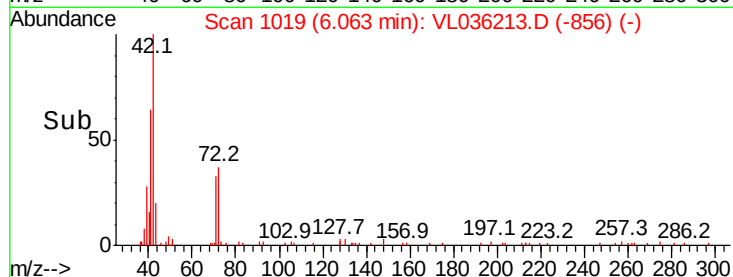
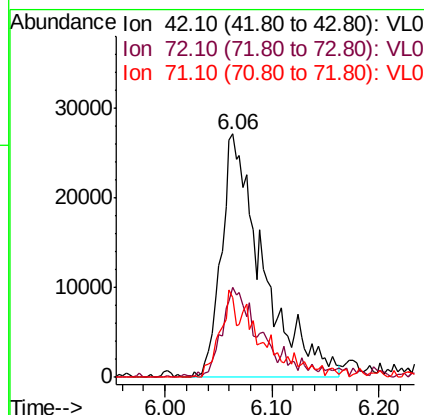
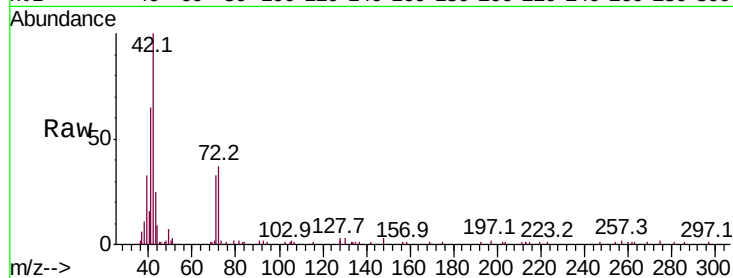
#41
Tetrahydrofuran
Concen: 0.554 ppbv m
RT: 6.06 min Scan# 1019
Delta R.T. 0.02 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.2	29.5	44.3
71	35.3	29.1	43.7

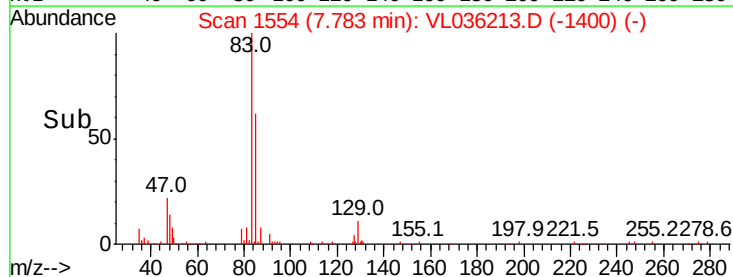
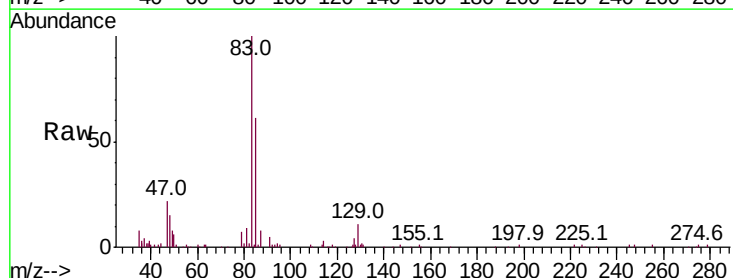
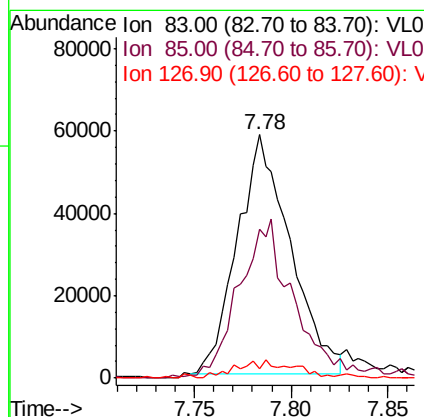
Manual Integrations
APPROVED

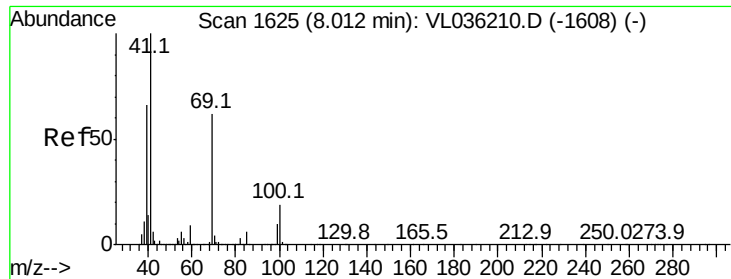
MMDadoda
1/18/2021 3:48:50 PM



#42
Bromodichloromethane
Concen: 0.504 ppbv
RT: 7.78 min Scan# 1554
Delta R.T. -0.01 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.1	53.4	80.2
127	2.8	6.2	9.2#





#43

Methyl Methacrylate

Concen: 0.522 ppbv m

RT: 8.01 min Scan# 1625

Delta R.T. 0.00 min

Lab File: VL036213.D

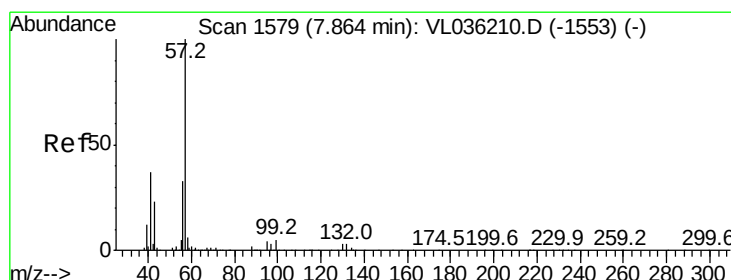
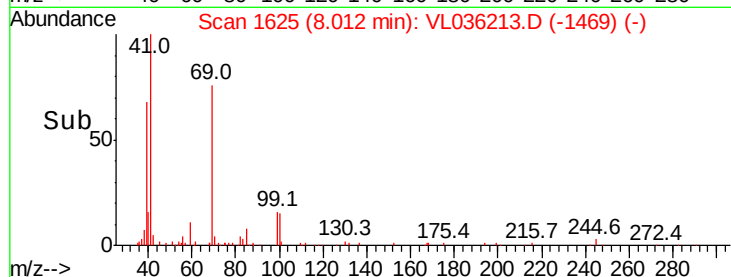
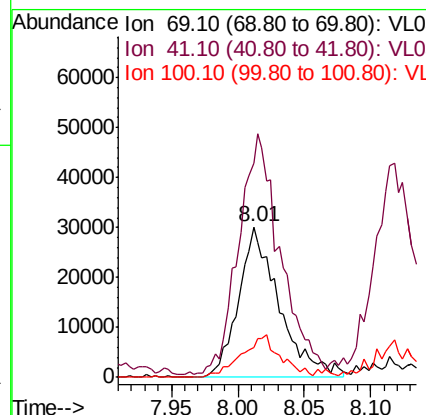
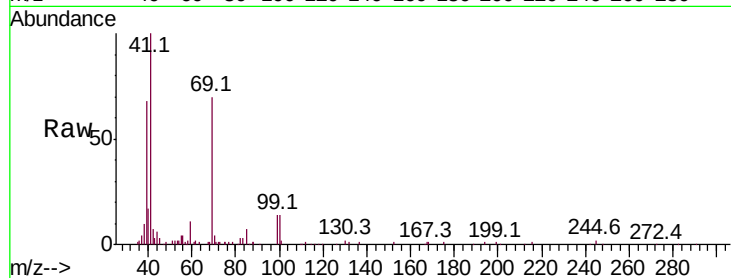
Acq: 13 Jan 2021 4:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
69	100		
41	167.1	133.4	200.2
100	26.7	24.3	36.5

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:48:50 PM



#44

2,2,4-Trimethylpentane

Concen: 0.611 ppbv

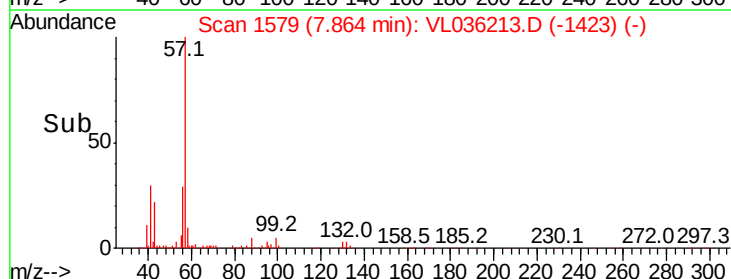
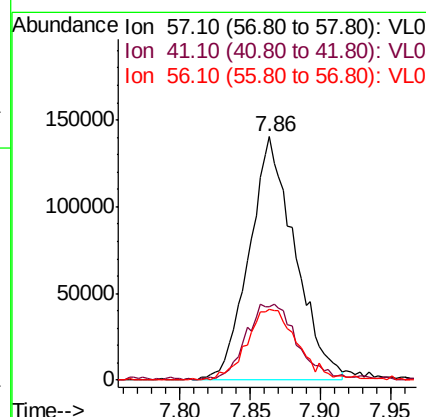
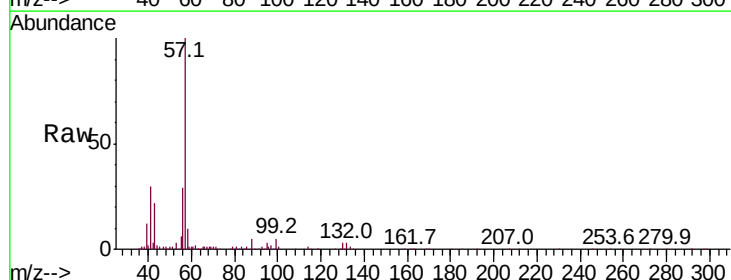
RT: 7.86 min Scan# 1579

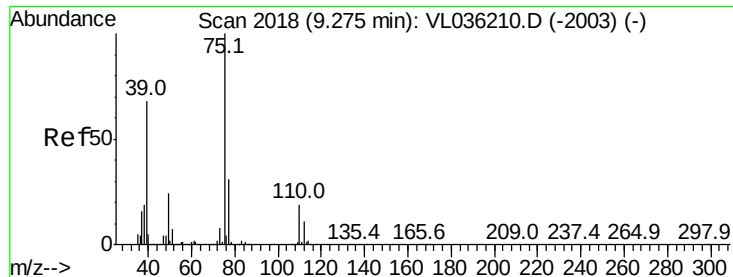
Delta R.T. -0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Tgt Ion	Ratio	Lower	Upper
57	100		
41	35.7	28.5	42.7
56	32.6	25.5	38.3





#45

t-1,3-Dichloropropene

Concen: 0.383 ppbv m

RT: 9.28 min Scan# 2020

Delta R.T. 0.01 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 48209

Ion Ratio Lower Upper

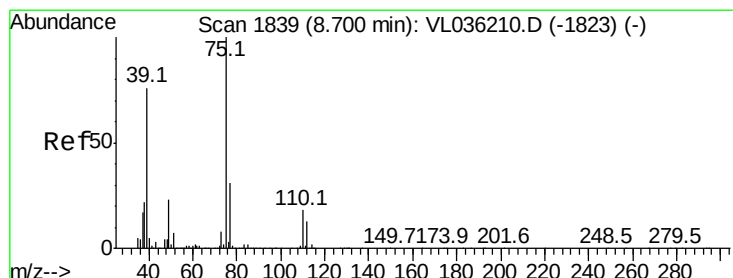
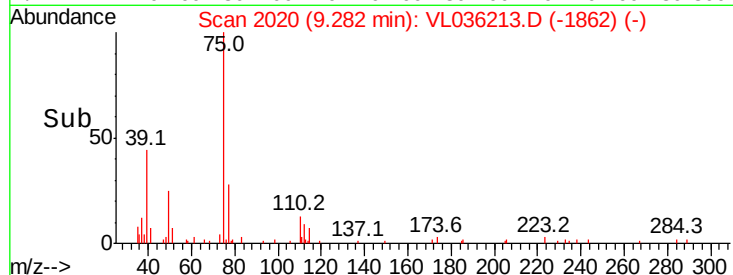
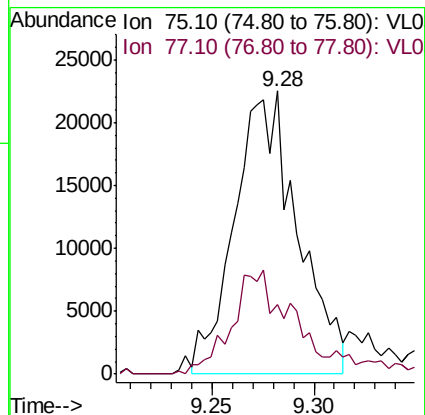
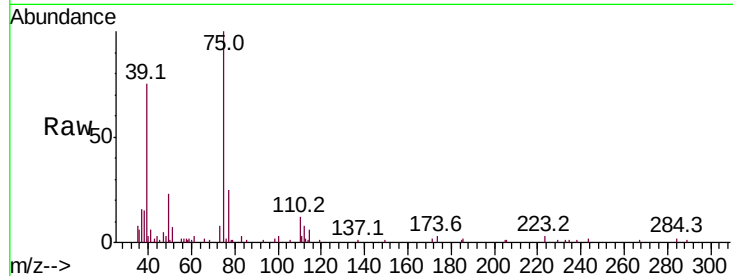
75 100

77 24.7 24.7 37.1

Manual Integrations
APPROVED

MMDadoda

1/18/2021 3:48:50 PM



#46

cis-1,3-Dichloropropene

Concen: 0.462 ppbv

RT: 8.70 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

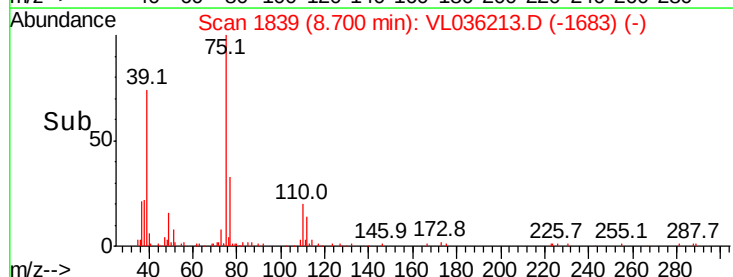
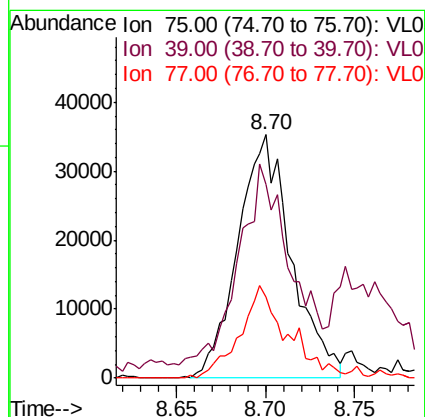
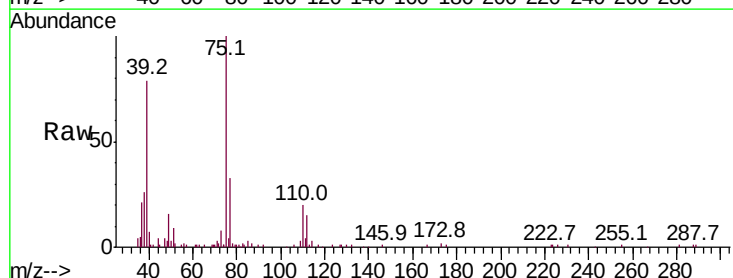
Tgt Ion: 75 Resp: 73409

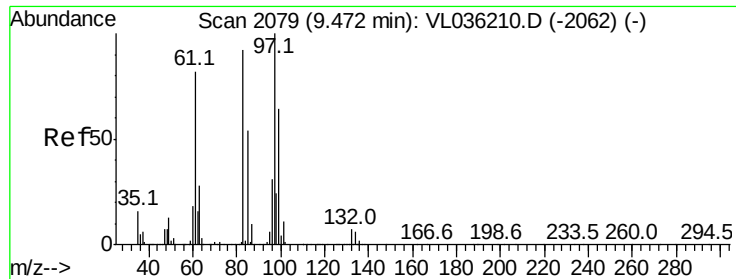
Ion Ratio Lower Upper

75 100

39 70.7 61.2 91.8

77 31.7 24.6 37.0





#47

1,1,2-Trichloroethane

Concen: 0.594 ppbv m

RT: 9.47 min Scan# 2078

Delta R.T. -0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

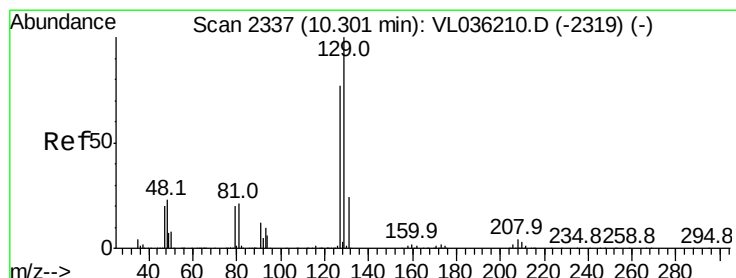
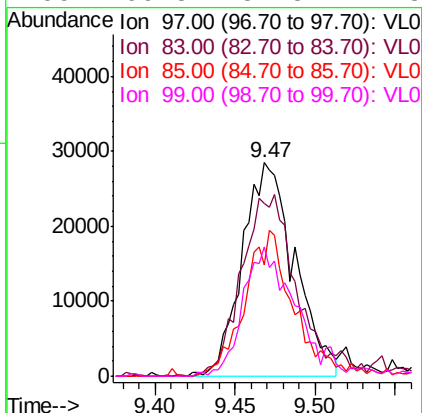
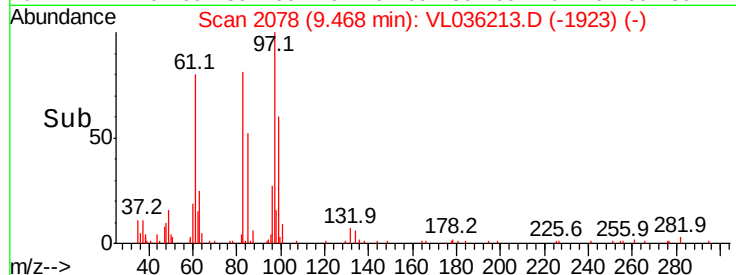
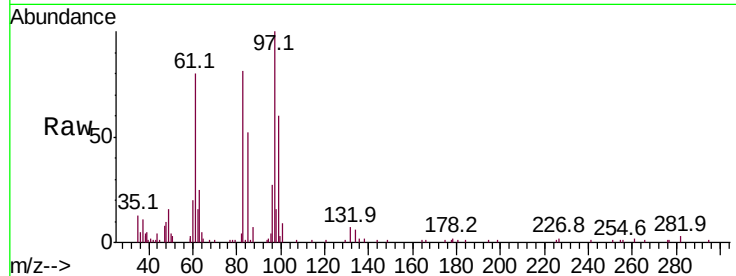
ClientSampleId :

VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	81.0	73.3	109.9	
85	52.3	43.2	64.8	
99	60.3	51.5	77.3	

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:48:50 PM



#48

Dibromochloromethane

Concen: 0.493 ppbv m

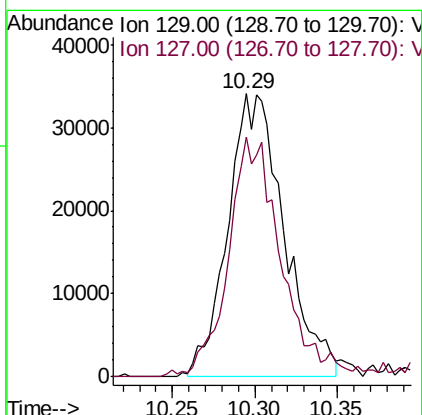
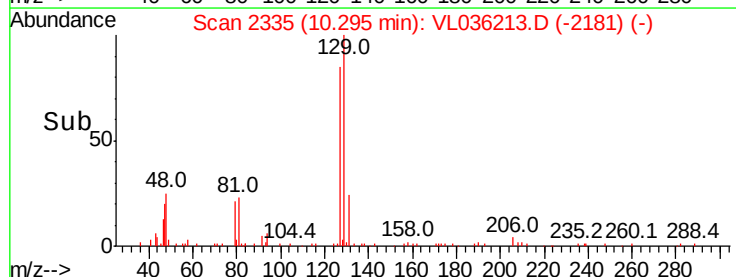
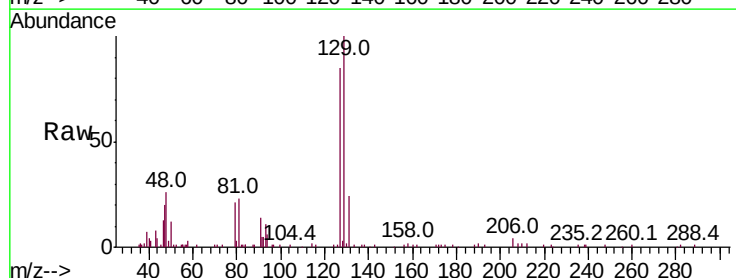
RT: 10.29 min Scan# 2335

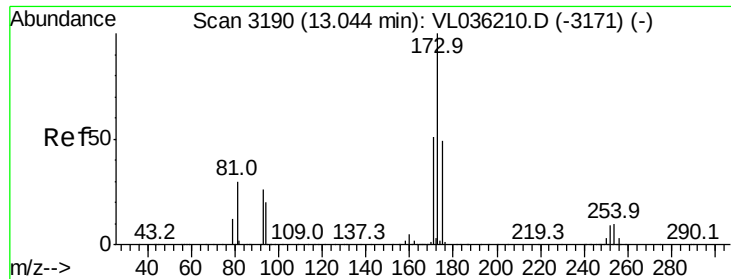
Delta R.T. -0.01 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	79.6	39.6	118.8	





#49

Bromoform

Concen: 0.537 ppbv m

RT: 13.03 min Scan# 3187

Delta R.T. -0.01 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

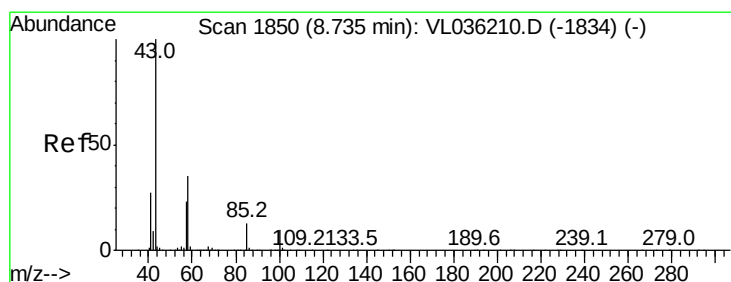
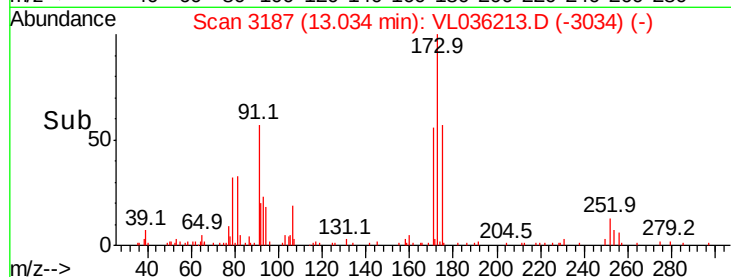
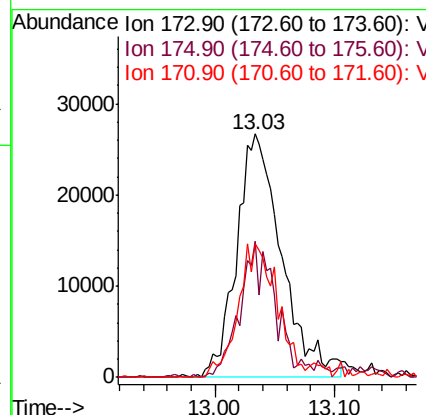
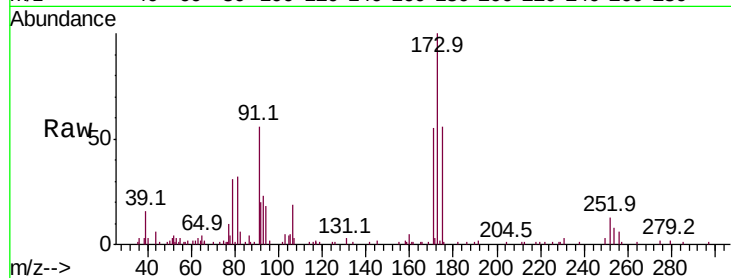
ClientSampleId :

VSTDIC0.5

Tot Ion:	173	Resp:	69567
Ion Ratio	Lower	Upper	
173	100		
175	46.3	40.7	61.1
171	50.0	43.0	64.6

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:48:50 PM



#50

4-Methyl-2-Pentanone

Concen: 0.578 ppbv m

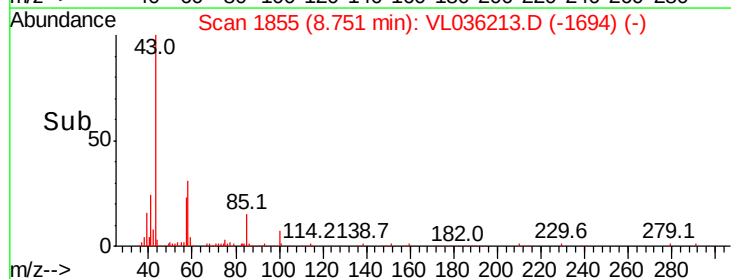
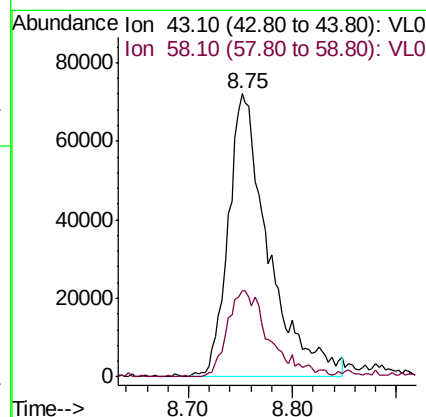
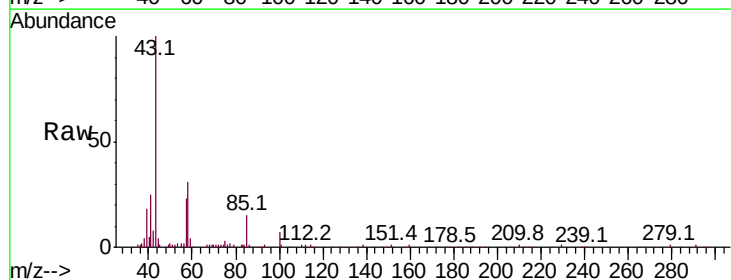
RT: 8.75 min Scan# 1855

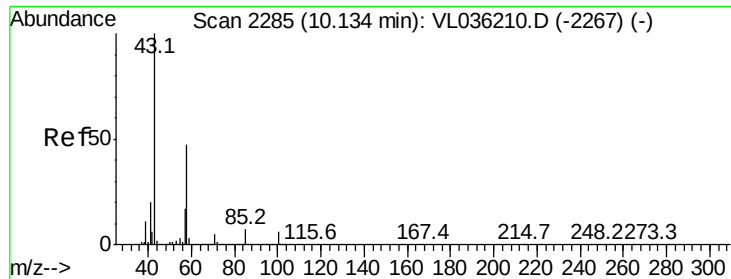
Delta R.T. 0.02 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Tgt Ion:	43	Resp:	194369
Ion Ratio	Lower	Upper	
43	100		
58	32.2	27.6	41.4





#51

2-Hexanone

Concen: 0.535 ppbv m

RT: 10.15 min Scan# 2291

Delta R.T. 0.02 min

Lab File: VL036213.D

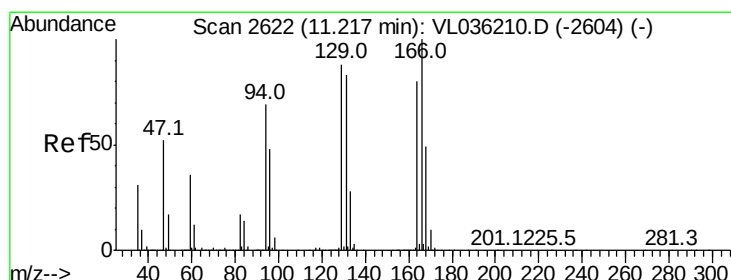
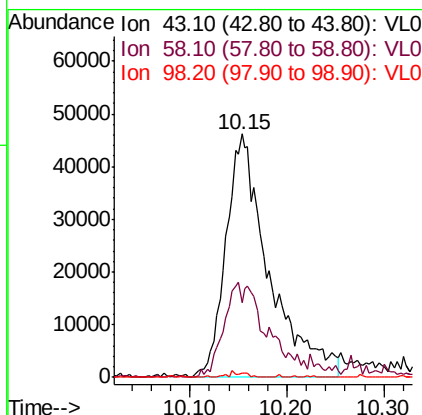
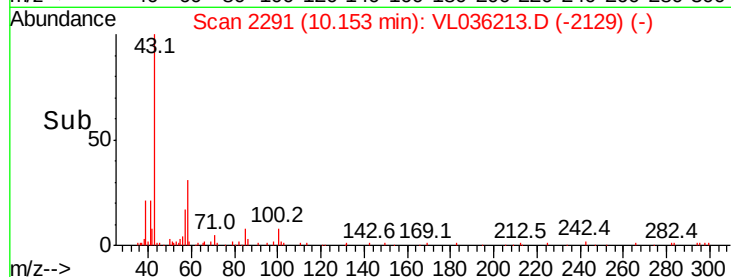
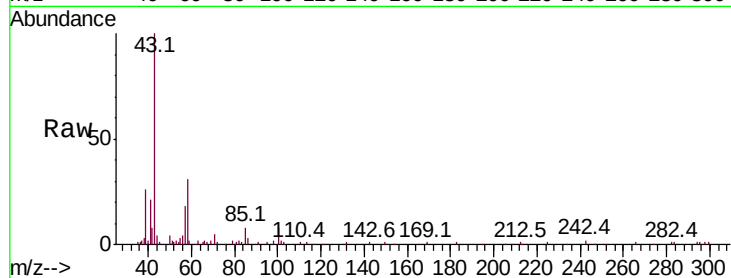
Acq: 13 Jan 2021 4:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	41.5	37.4	56.0
98	0.5	0.2	0.2#

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:48:50 PM



#52

Tetrachloroethene

Concen: 0.530 ppbv m

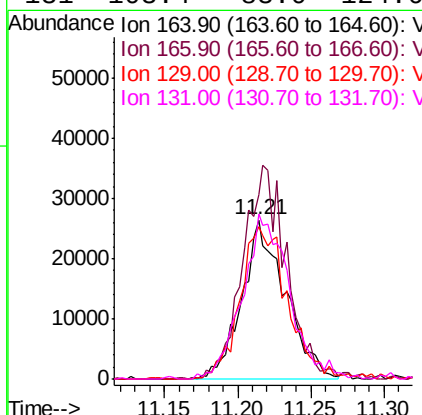
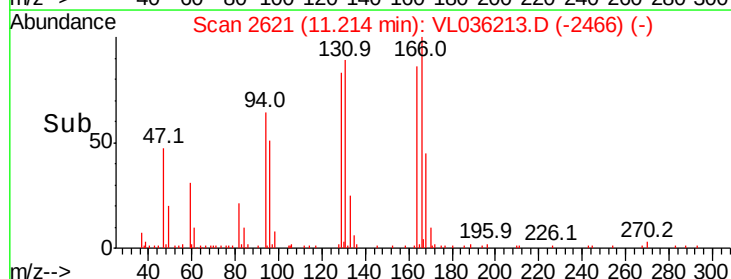
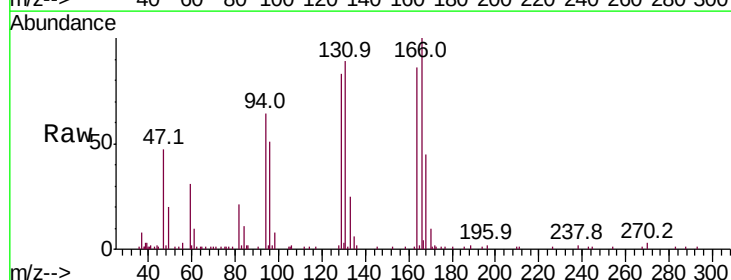
RT: 11.21 min Scan# 2621

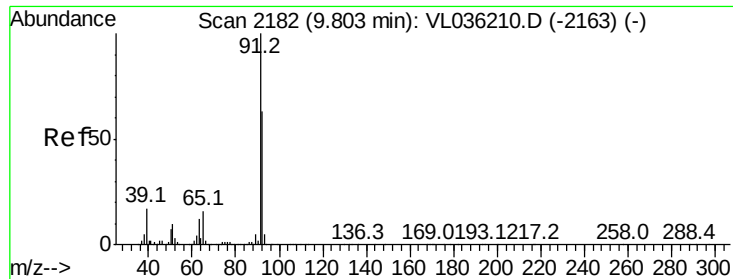
Delta R.T. -0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Tgt Ion	Ratio	Lower	Upper
164	100		
166	115.6	99.9	149.9
129	95.8	88.2	132.4
131	103.4	83.0	124.6





#53

Toluene

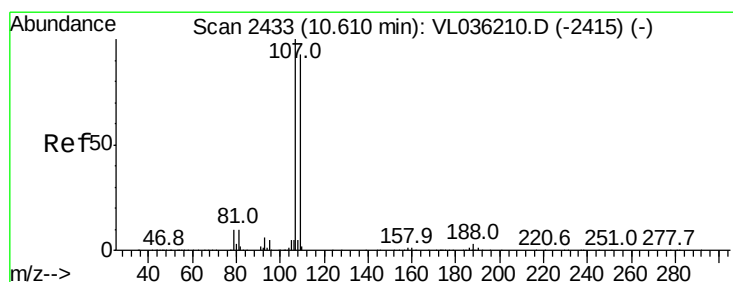
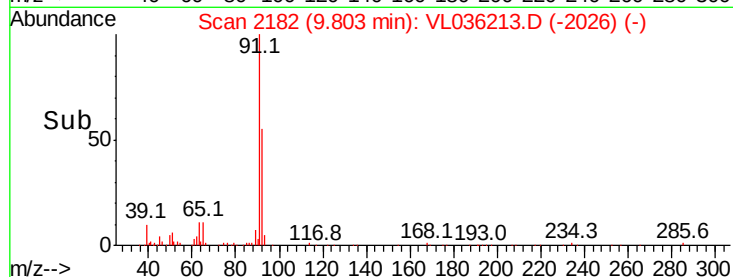
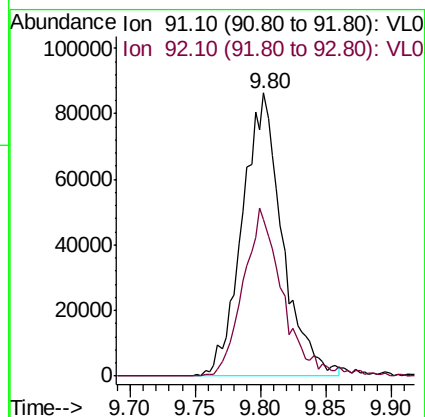
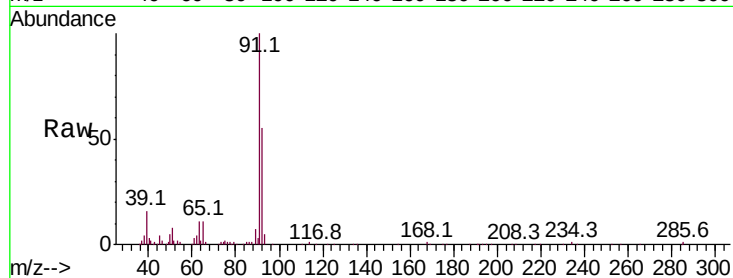
Concen: 0.572 ppbv m
RT: 9.80 min Scan# 2182
Delta R.T. -0.00 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.0	48.5	72.7

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:48:50 PM

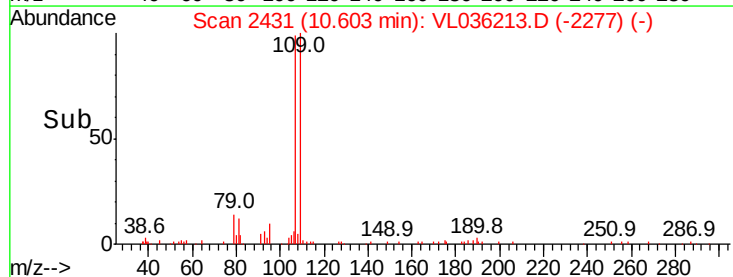
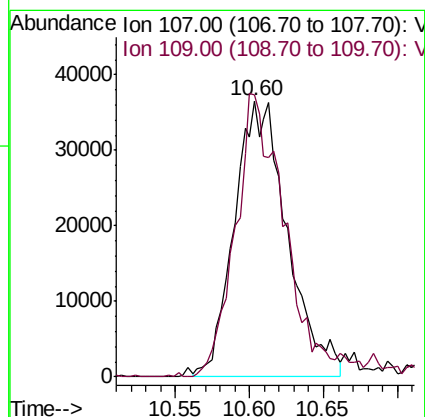
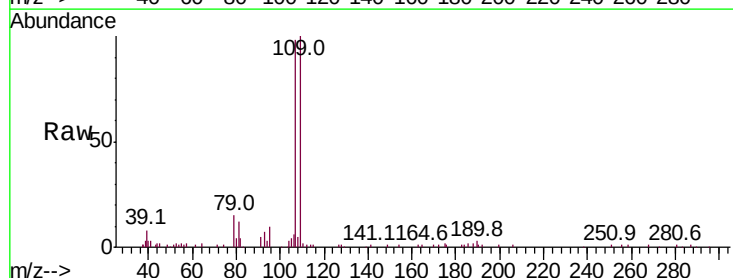


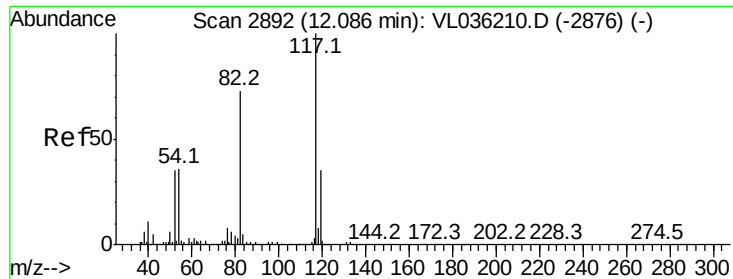
#54

1,2-Dibromoethane

Concen: 0.554 ppbv m
RT: 10.60 min Scan# 2431
Delta R.T. -0.01 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Tgt Ion	Ratio	Lower	Upper
107	100		
109	102.5	74.5	111.7





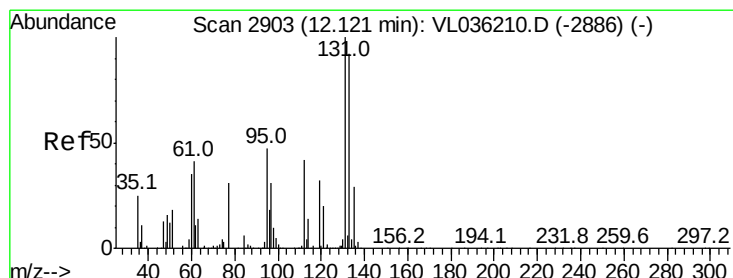
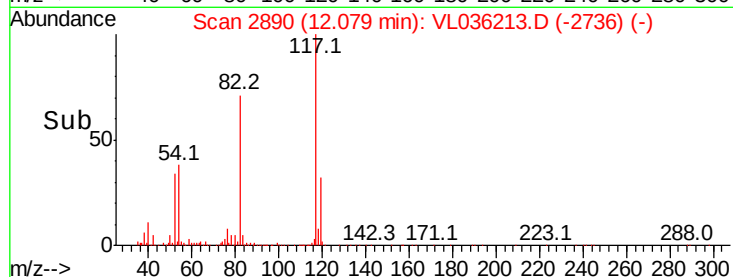
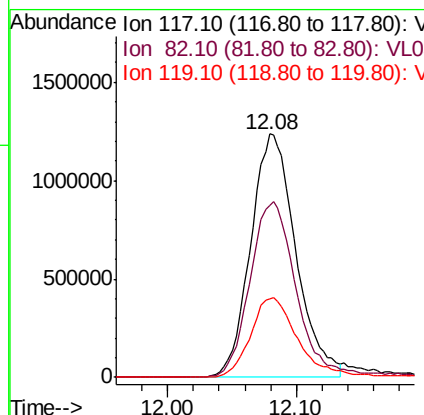
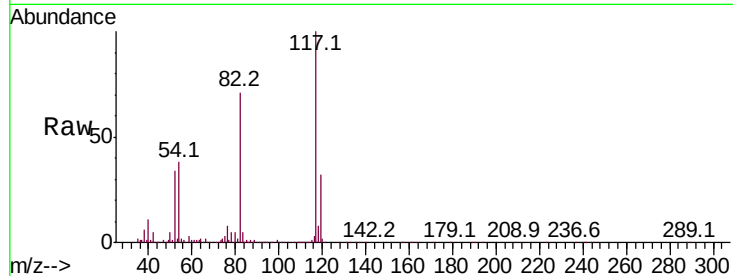
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion:117 Resp: 3009967
Ion Ratio Lower Upper
117 100
82 76.2 59.7 89.5
119 35.3 28.6 43.0

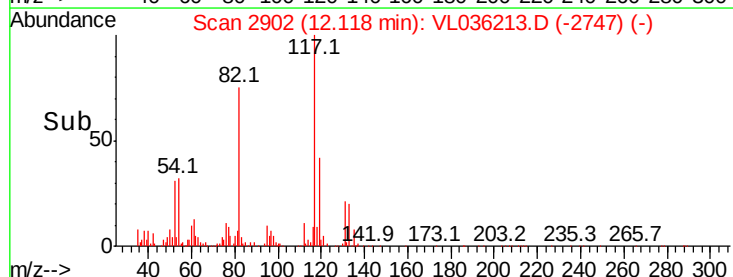
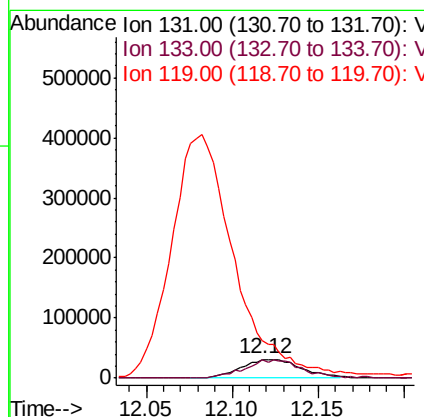
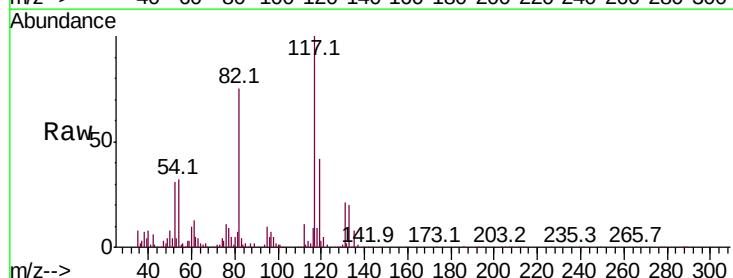
Manual Integrations
APPROVED

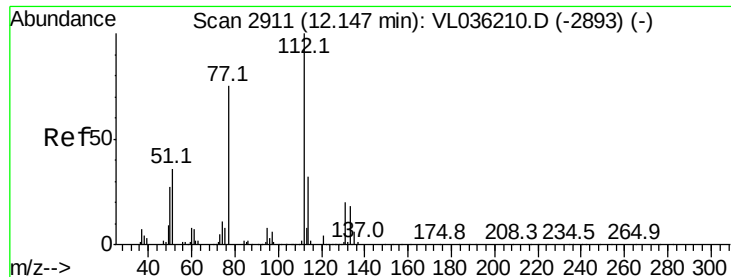
MMDadoda
1/18/2021 3:48:50 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.601 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. -0.00 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Tgt Ion:131 Resp: 74990
Ion Ratio Lower Upper
131 100
133 94.5 76.5 114.7
119 1397.9 45.4 68.0#





#57

Chlorobenzene

Concen: 0.642 ppbv m

RT: 12.14 min Scan# 2910

Delta R.T. -0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

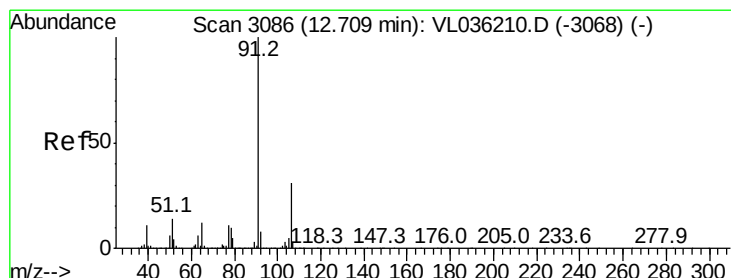
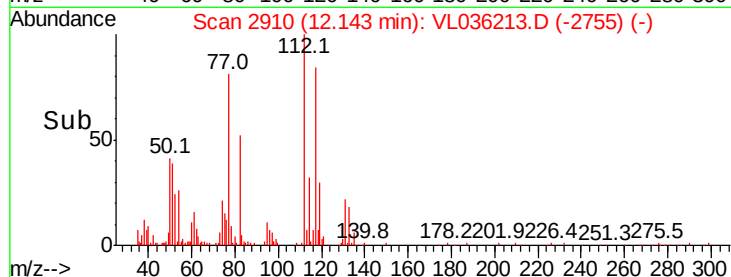
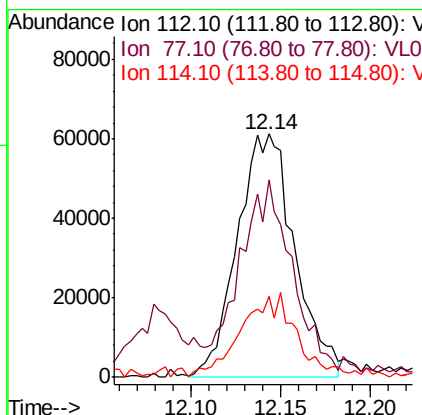
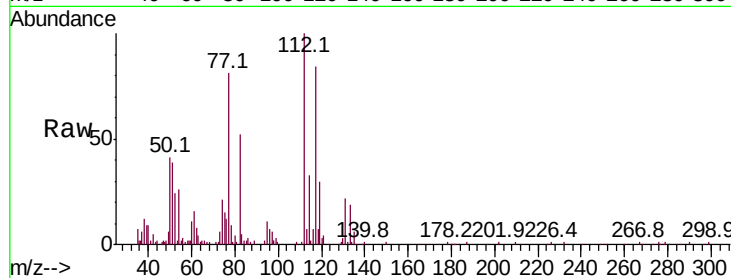
ClientSampleId :

VSTDIC0.5

Tot Ion:	112	Resp:	136288
Ion Ratio	Lower	Upper	
112	100		
77	81.2	59.6	89.4
114	33.2	28.7	35.1

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:48:50 PM



#58

Ethyl Benzene

Concen: 0.594 ppbv m

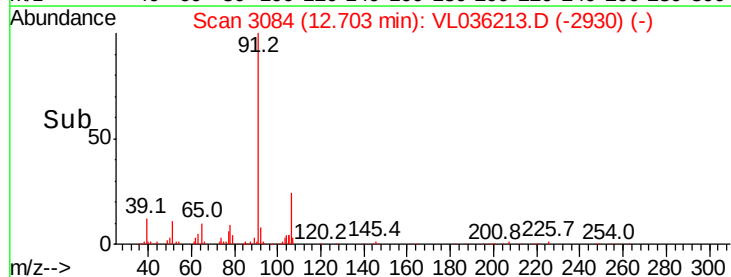
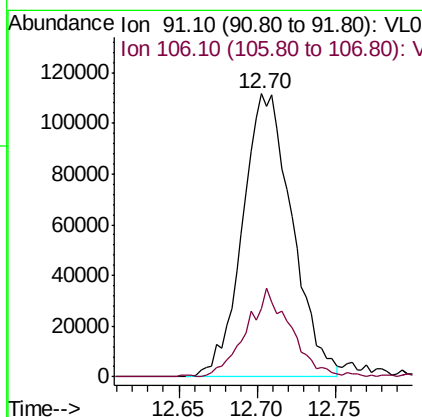
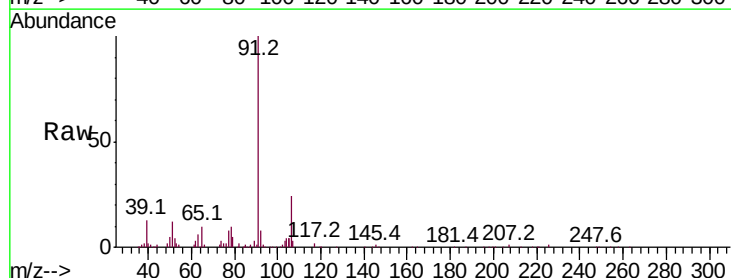
RT: 12.70 min Scan# 3084

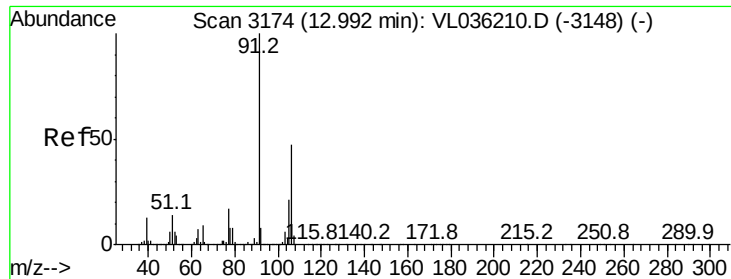
Delta R.T. -0.01 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Tgt Ion:	91	Resp:	246508
Ion Ratio	Lower	Upper	
91	100		
106	24.3	24.8	37.2#





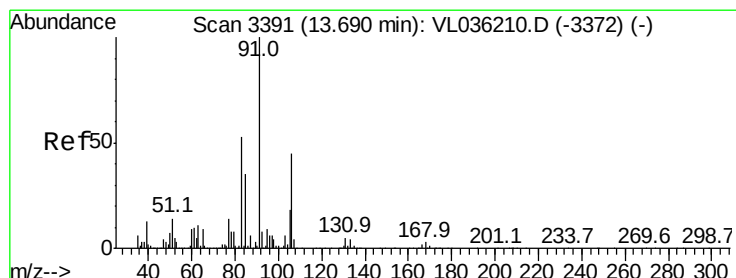
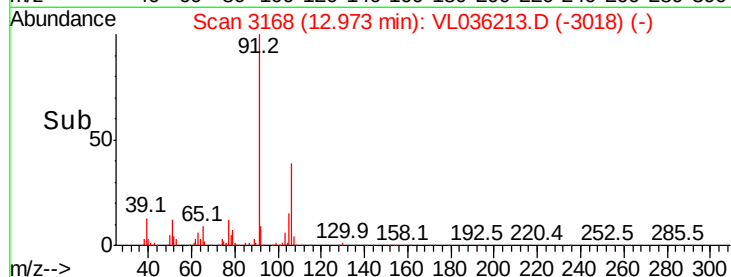
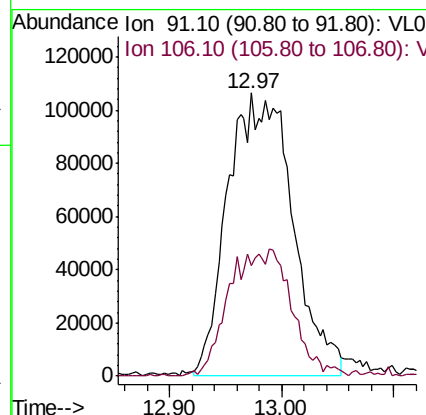
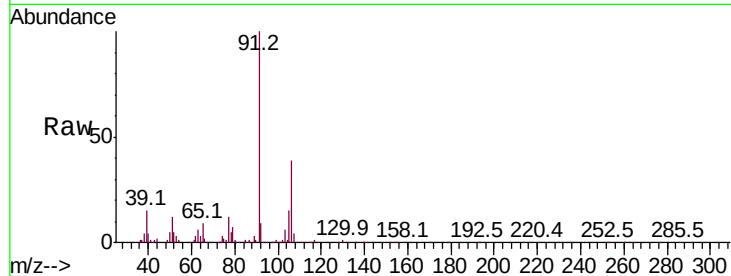
#59
m/p-Xylene
Concen: 1.226 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. -0.02 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 427973
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#

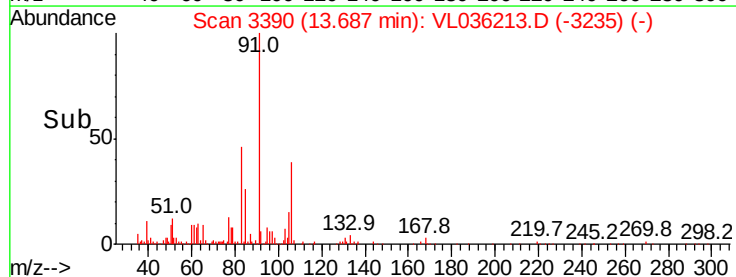
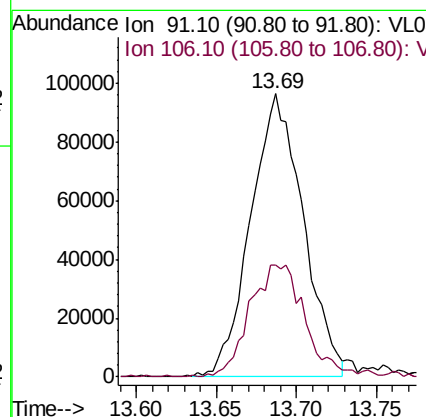
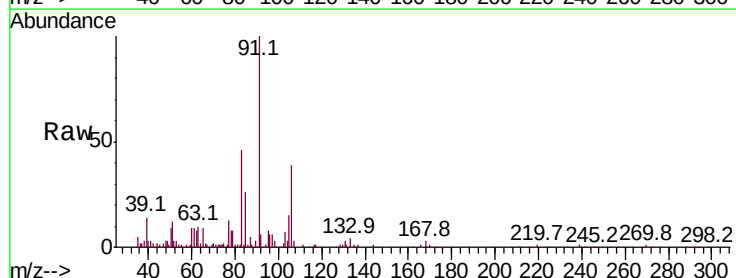
Manual Integrations
APPROVED

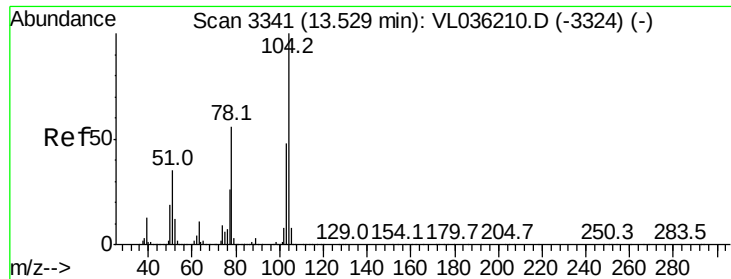
MMDadoda
1/18/2021 3:48:50 PM



#60
o-Xylene
Concen: 0.658 ppbv
RT: 13.69 min Scan# 3390
Delta R.T. -0.00 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Tgt Ion: 91 Resp: 216923
Ion Ratio Lower Upper
91 100
106 42.0 21.9 65.8





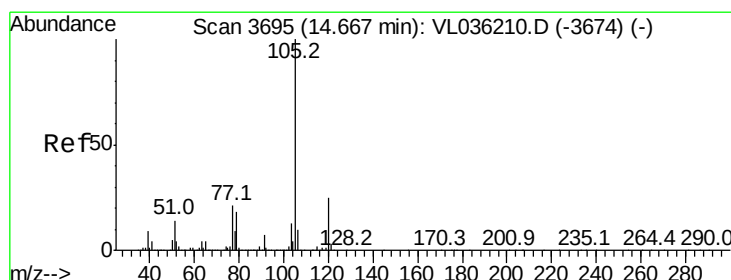
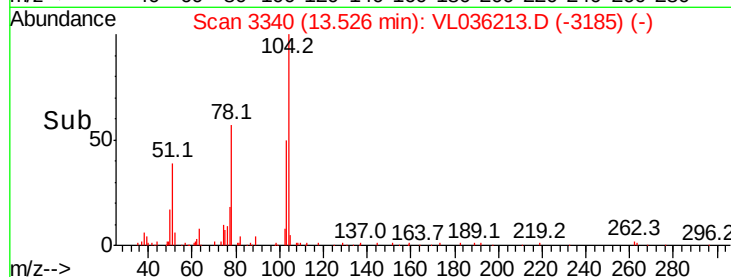
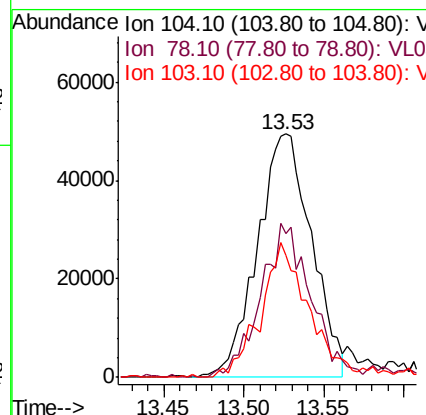
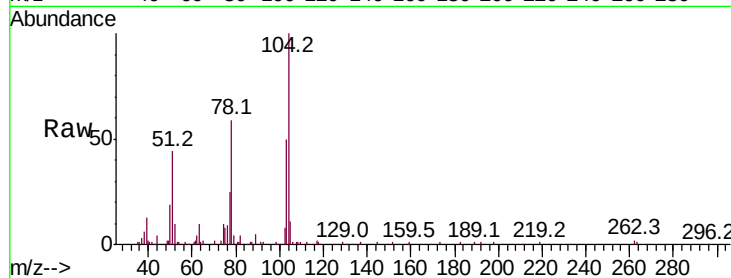
#61
Stvrene
Concen: 0.540 ppbv
RT: 13.53 min Scan# 3340
Delta R.T. -0.00 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
104	100		
78	62.3	46.8	70.2
103	51.2	38.4	57.6

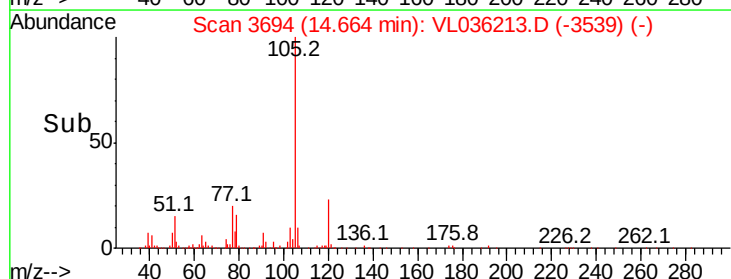
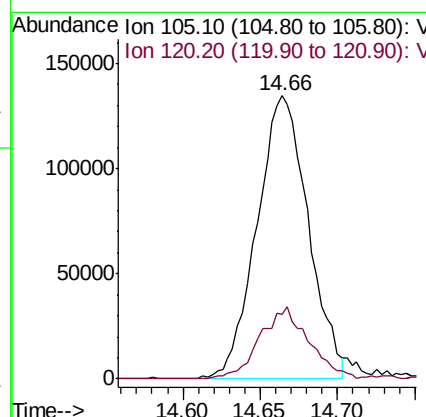
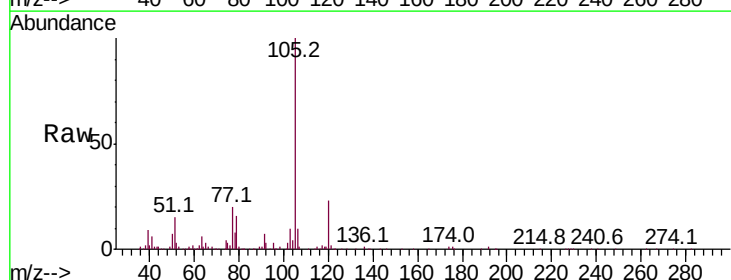
Manual Integrations
APPROVED

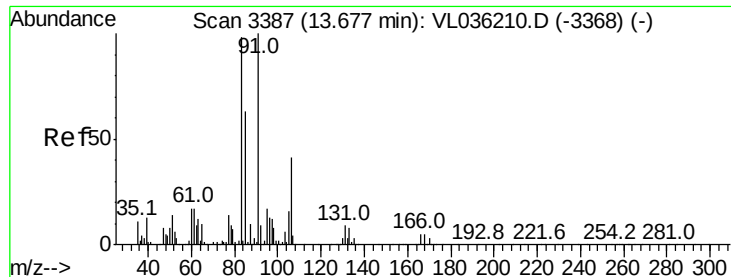
MMDadoda
1/18/2021 3:48:50 PM



#62
Isopropylbenzene
Concen: 0.634 ppbv
RT: 14.66 min Scan# 3694
Delta R.T. -0.00 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.9	20.3	30.5





#63

1,1,2,2-Tetrachloroethane

Concen: 0.672 ppbv m

RT: 13.67 min Scan# 3385

Delta R.T. -0.01 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

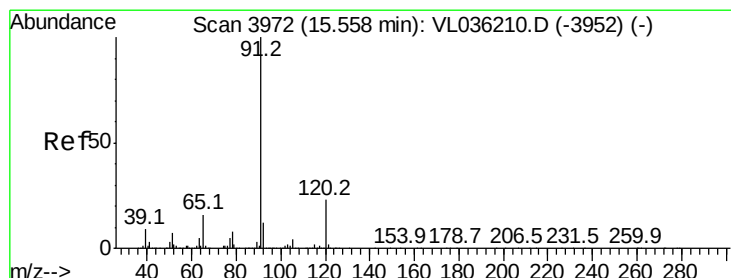
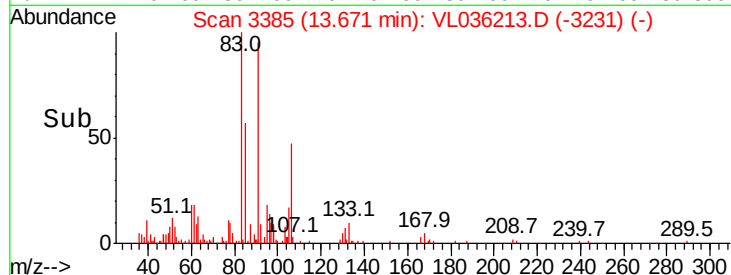
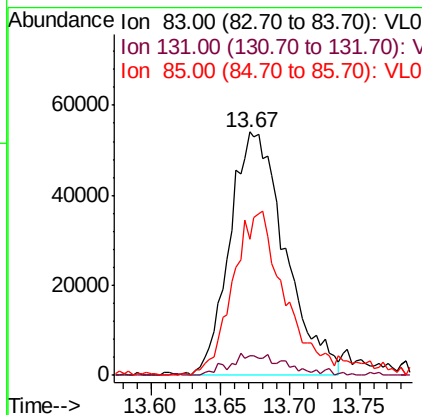
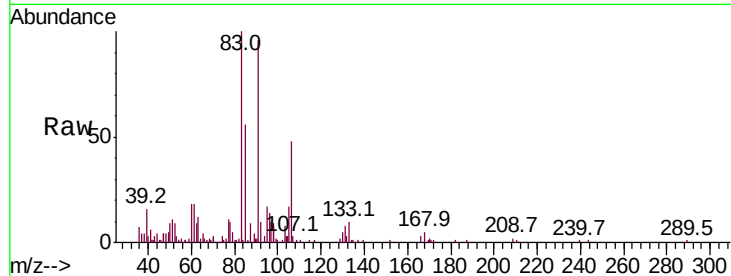
ClientSampleId :

VSTDIC0.5

Tot Ion:	83	Resp:	150401
Ion Ratio	Lower	Upper	
83	100		
131	0.0	4.5	13.5#
85	67.7	33.1	99.3

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:48:50 PM



#64

n-propylbenzene

Concen: 0.626 ppbv m

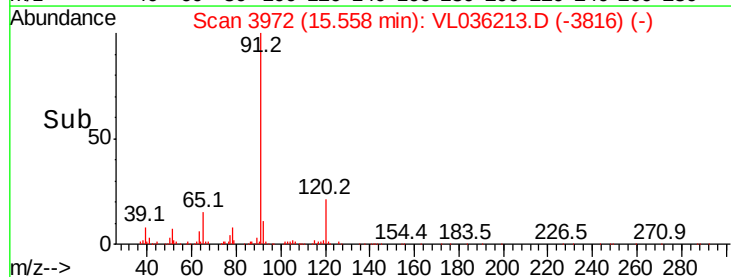
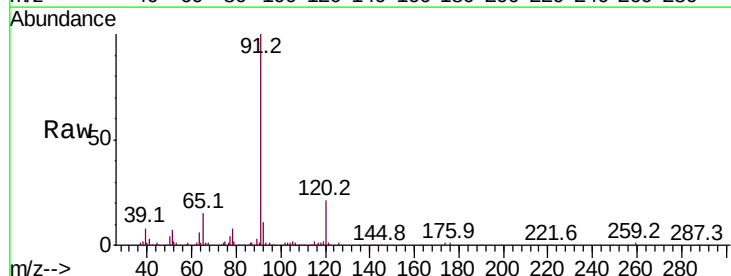
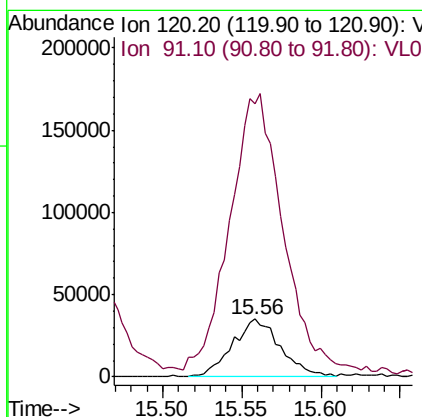
RT: 15.56 min Scan# 3972

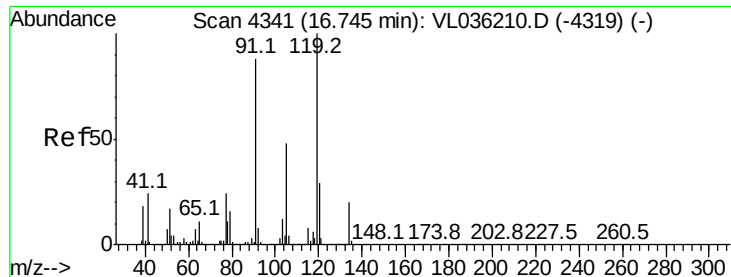
Delta R.T. 0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Tgt Ion:	120	Resp:	74262
Ion Ratio	Lower	Upper	
120	100		
91	573.2	391.8	587.6





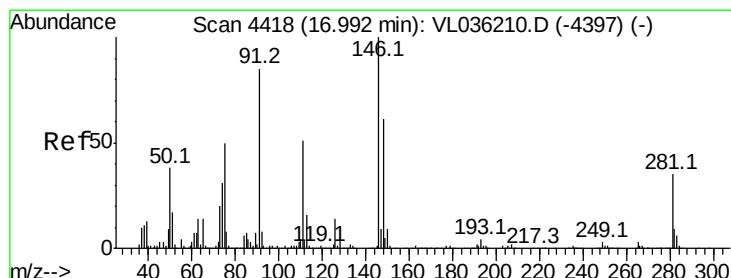
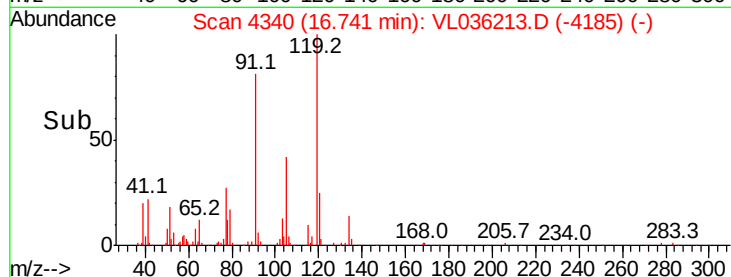
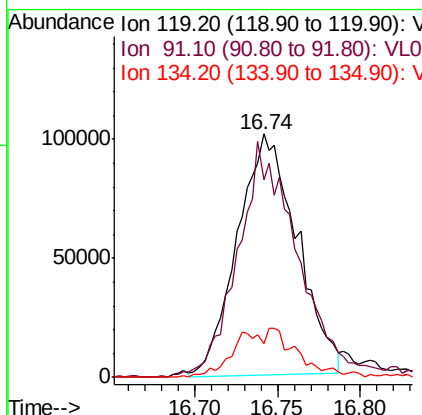
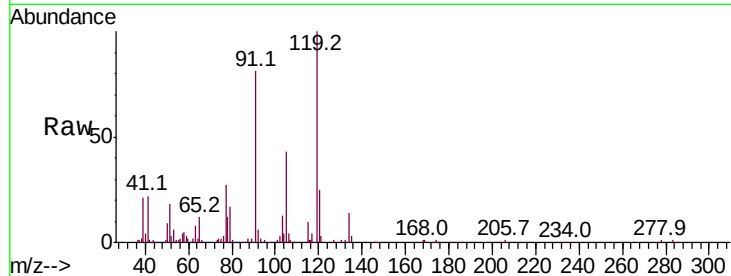
#65
tert-Butylbenzene
Concen: 0.628 ppbv
RT: 16.74 min Scan# 4340
Delta R.T. -0.00 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	253072		
91	101.2	71.0	106.6	
134	21.6	15.8	23.6	

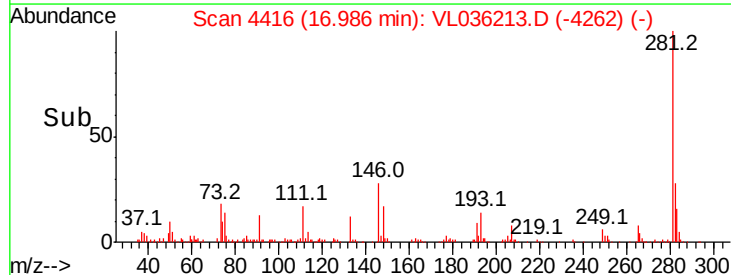
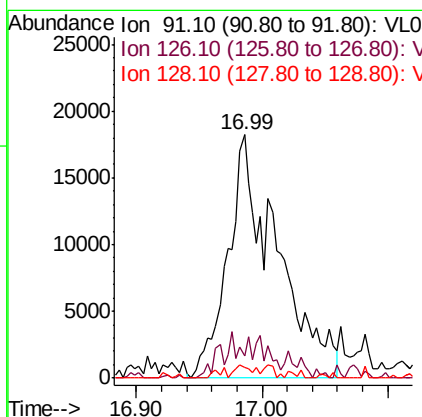
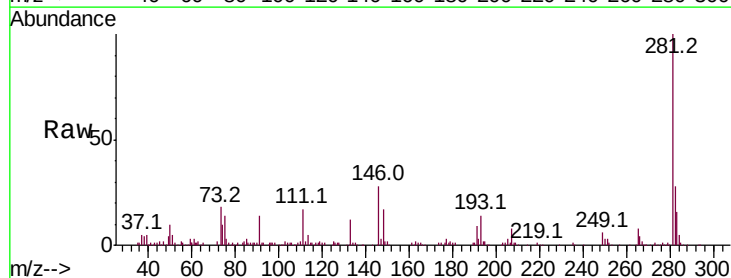
Manual Integrations
APPROVED

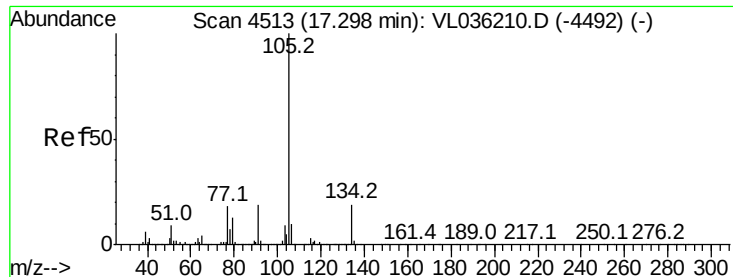
MMDadoda
1/18/2021 3:48:50 PM



#66
Benzyl Chloride
Concen: 0.478 ppbv m
RT: 16.99 min Scan# 4416
Delta R.T. -0.01 min
Lab File: VL036213.D
Acq: 13 Jan 2021 4:30

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	49406		
126	17.7	12.6	19.0	
128	4.6	3.8	5.6	





#67

sec-Butylbenzene

Concen: 0.706 ppbv

RT: 17.29 min Scan# 4511

Delta R.T. -0.01 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 402448

Ion Ratio Lower Upper

105 100

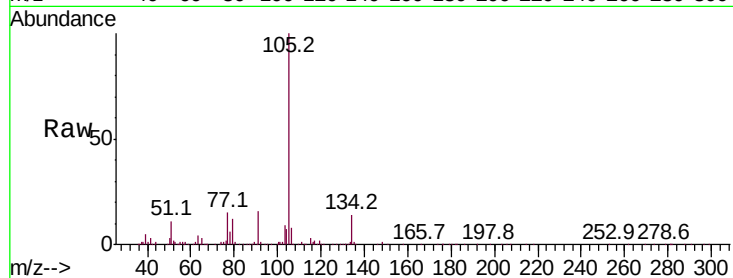
134 16.3 14.2 21.4

Manual Integrations

APPROVED

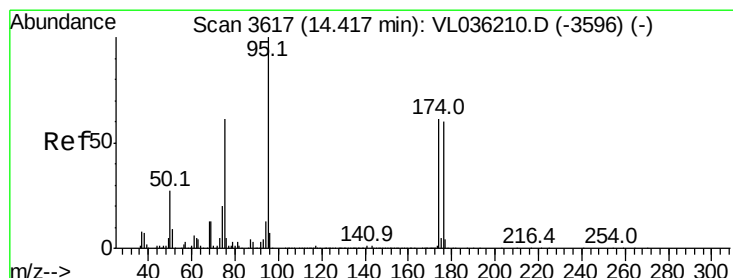
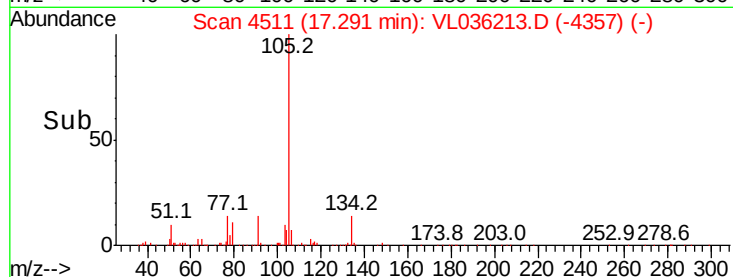
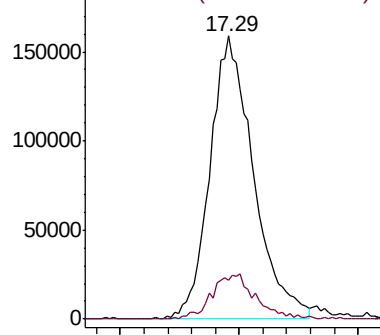
MMDadoda

1/18/2021 3:48:50 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: 10.507 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. -0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

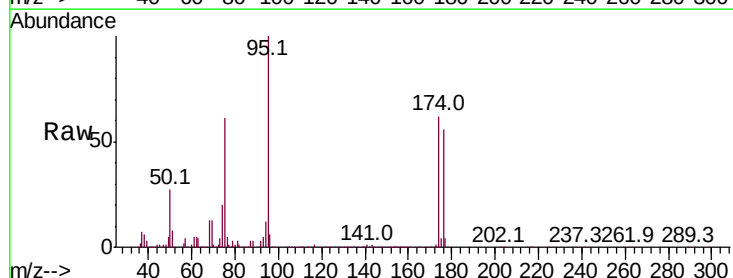
Tgt Ion: 95 Resp: 2537110

Ion Ratio Lower Upper

95 100

174 62.5 49.4 74.0

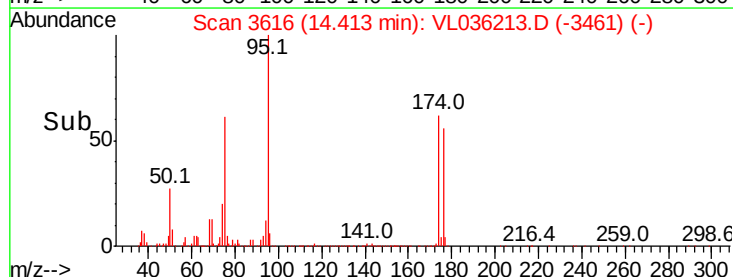
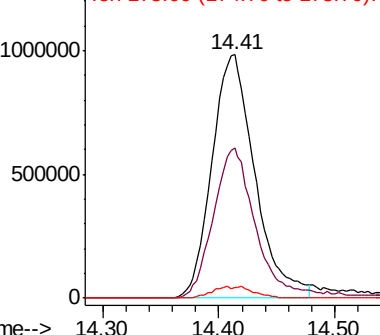
175 4.6 3.8 5.8

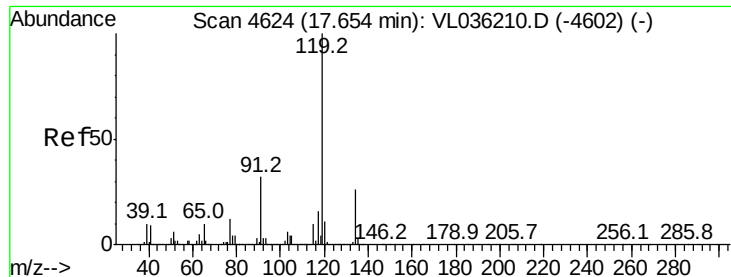


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





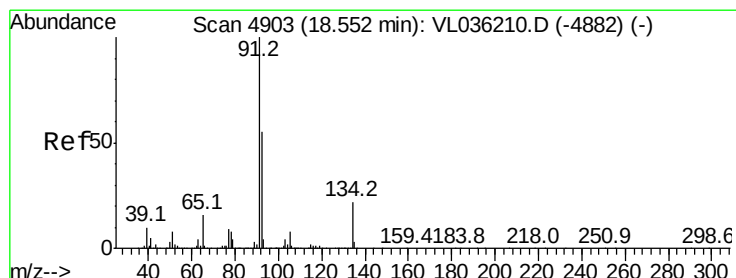
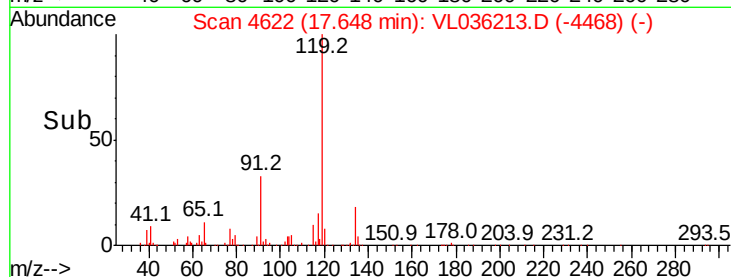
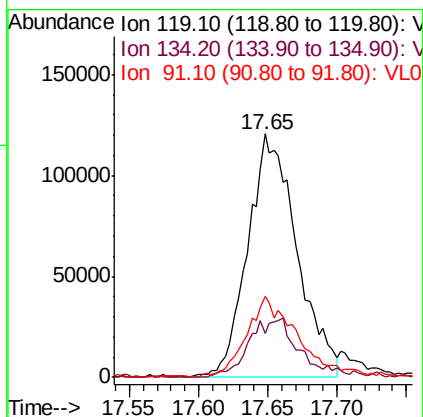
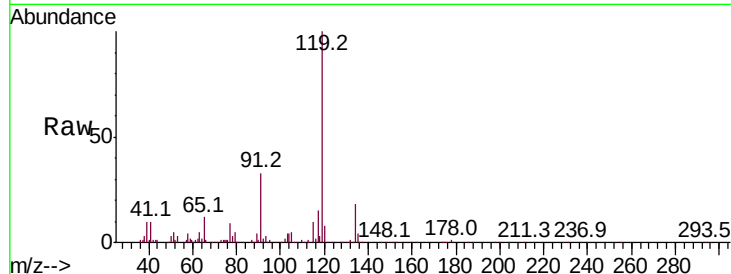
#69
 p-Isopropyltoluene
 Concen: 0.655 ppbv m
 RT: 17.65 min Scan# 4622
 Delta R.T. -0.01 min
 Lab File: VL036213.D
 Acq: 13 Jan 2021 4:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.2	30.4#
91	36.0	26.0	39.0

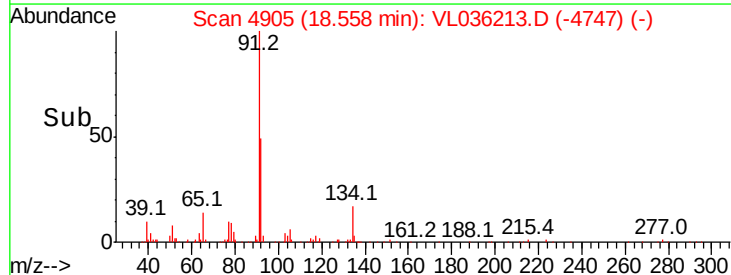
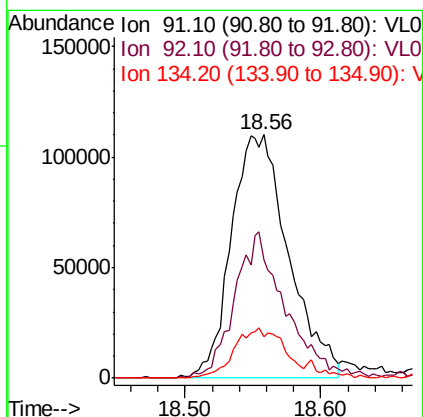
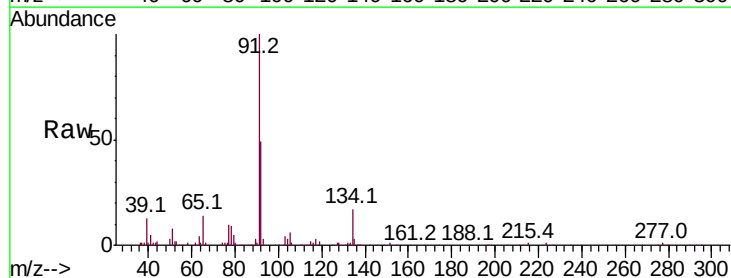
Manual Integrations
 APPROVED

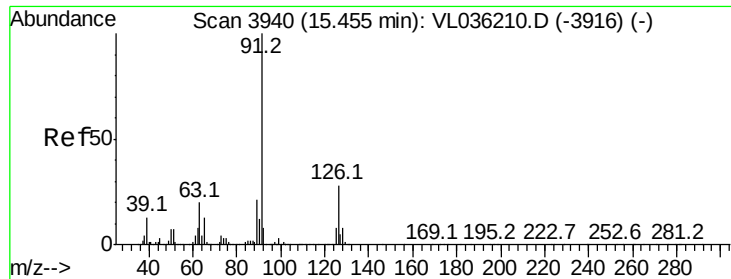
MMDadoda
 1/18/2021 3:48:50 PM



#70
 n-Butylbenzene
 Concen: 0.708 ppbv m
 RT: 18.56 min Scan# 4905
 Delta R.T. 0.01 min
 Lab File: VL036213.D
 Acq: 13 Jan 2021 4:30

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	44.0	66.0#
134	0.0	17.0	25.4#





#71

2-Chlorotoluene

Concen: 0.650 ppbv m

RT: 15.44 min Scan# 3936

Delta R.T. -0.01 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 243280

Ion Ratio Lower Upper

91 100

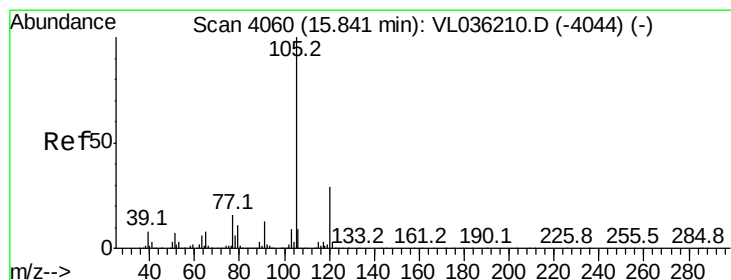
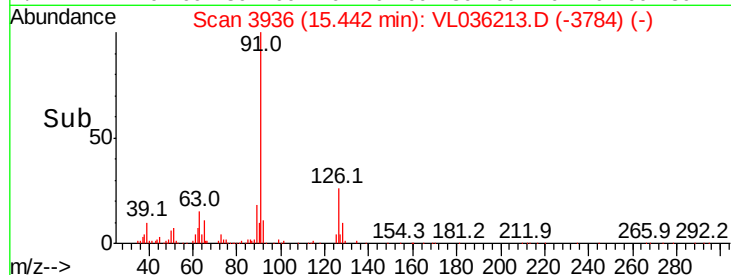
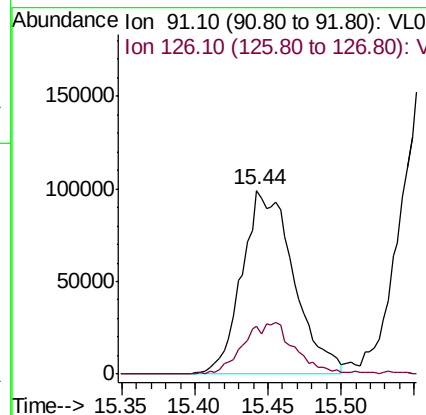
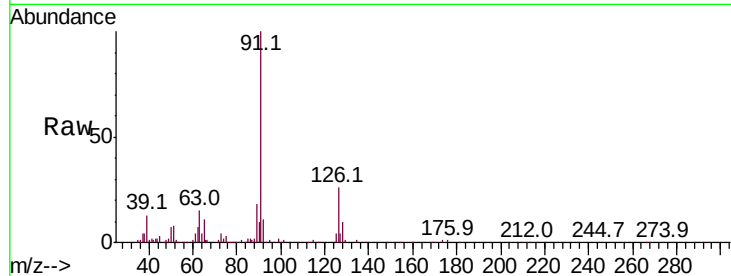
126 0.0 11.5 45.9#

Manual Integrations

APPROVED

MMDadoda

1/18/2021 3:48:50 PM



#72

4-Ethyltoluene

Concen: 0.617 ppbv

RT: 15.83 min Scan# 4058

Delta R.T. -0.01 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Tgt Ion: 105 Resp: 222981

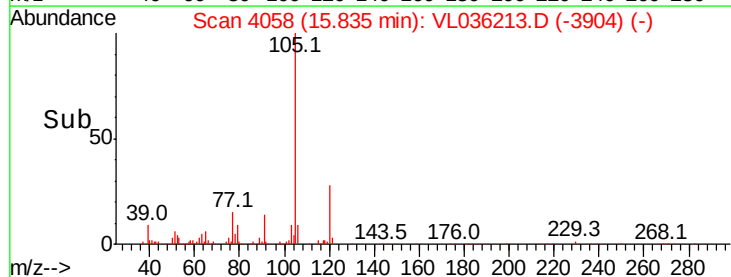
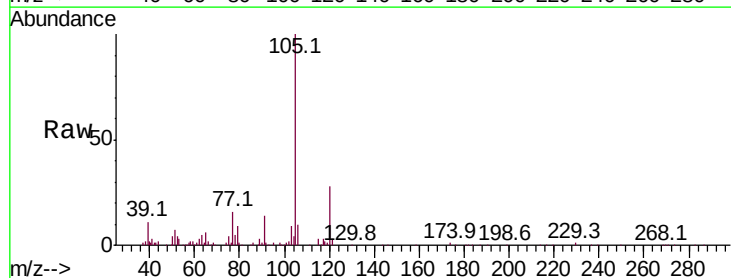
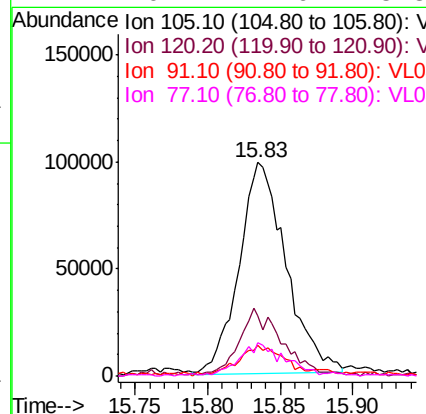
Ion Ratio Lower Upper

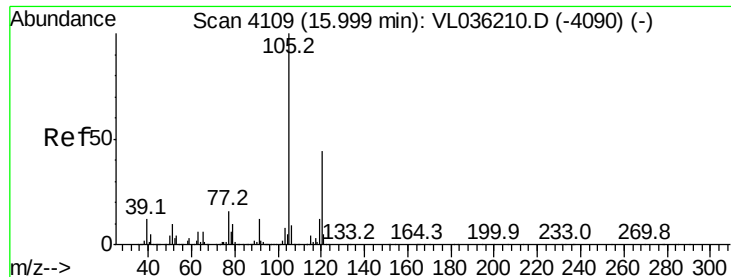
105 100

120 31.0 23.7 35.5

91 15.7 11.9 17.9

77 16.2 12.6 18.8





#73

1,3,5-Trimethylbenzene

Concen: 0.646 ppbv m

RT: 16.00 min Scan# 4109

Delta R.T. 0.00 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

ClientSampled :

VSTDIC0.5

Tot Ion:105 Resp: 223352

Ion Ratio Lower Upper

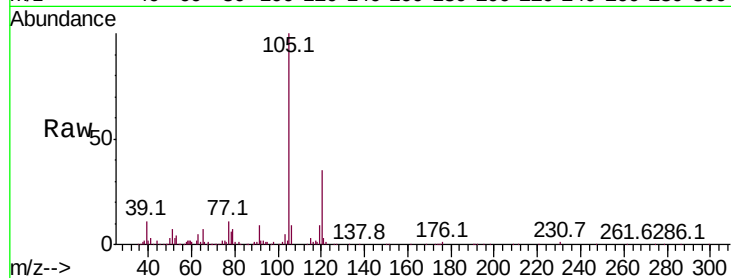
105 100

120 34.6 35.5 53.3#

Manual Integrations
APPROVED

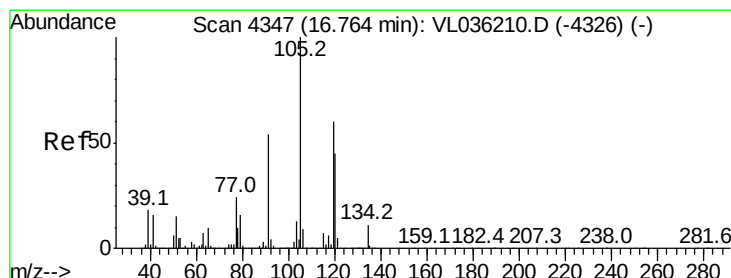
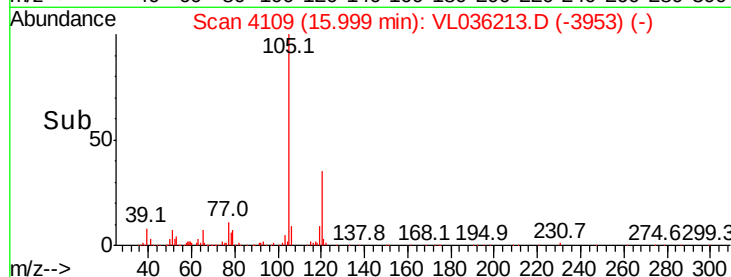
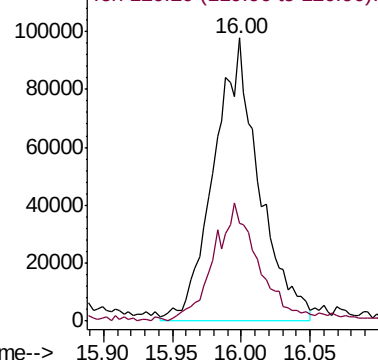
MMDadoda

1/18/2021 3:48:50 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: 0.667 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. -0.01 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Tgt Ion:105 Resp: 231344

Ion Ratio Lower Upper

105 100

120 42.9 36.2 54.2

91 69.0 43.3 64.9#

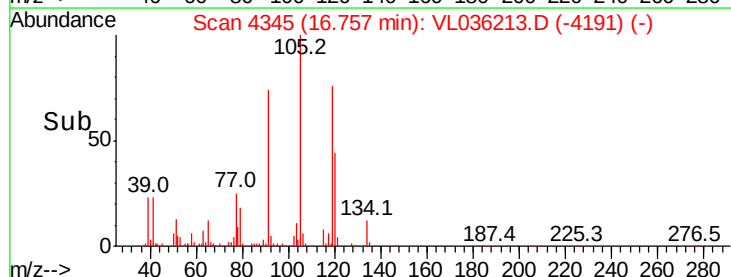
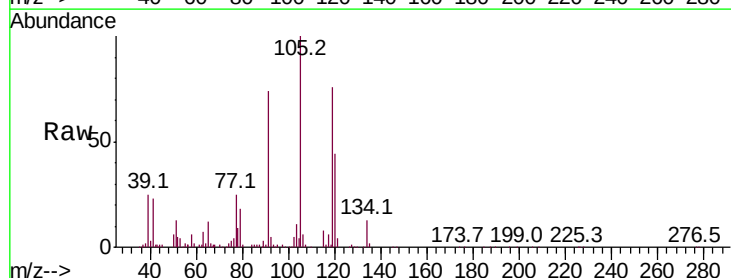
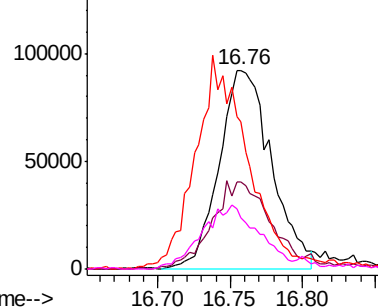
77 23.7 19.1 28.7

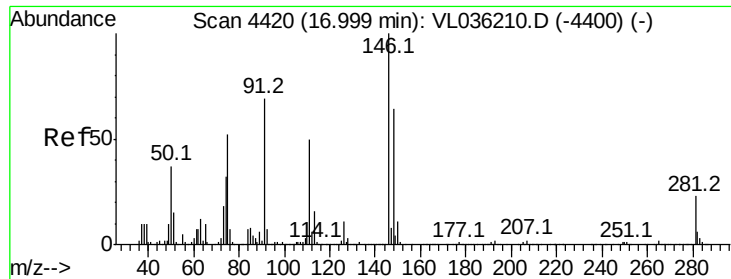
Abundance Ion 105.10 (104.80 to 105.80): V

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





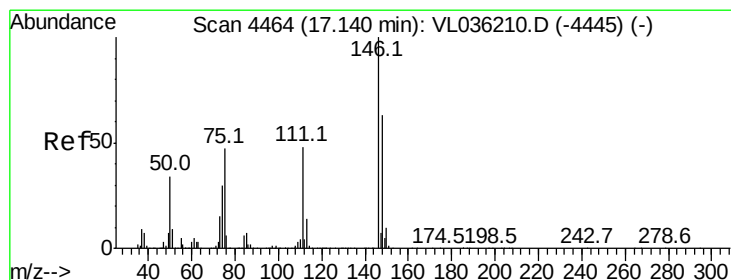
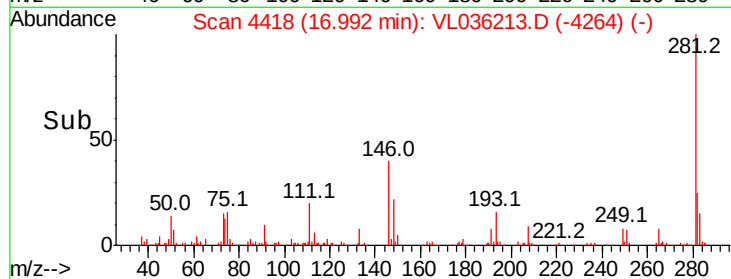
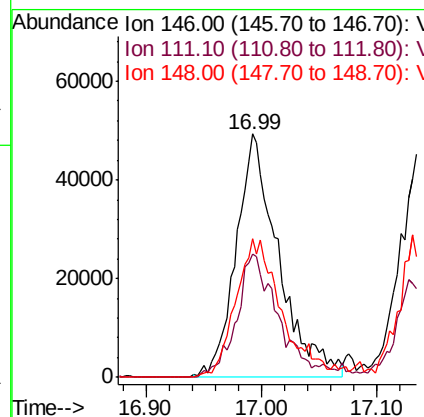
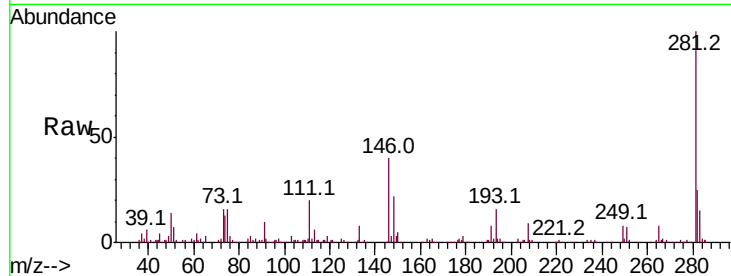
#75
 1,3-Dichlorobenzene
 Concen: 0.719 ppbv m
 RT: 16.99 min Scan# 4418
 Delta R.T. -0.01 min
 Lab File: VL036213.D
 Acq: 13 Jan 2021 4:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
146	100	125810		
111	51.4	25.5	76.5	
148	63.5	32.4	97.2	

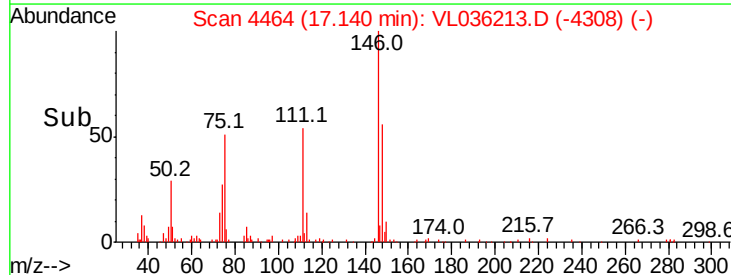
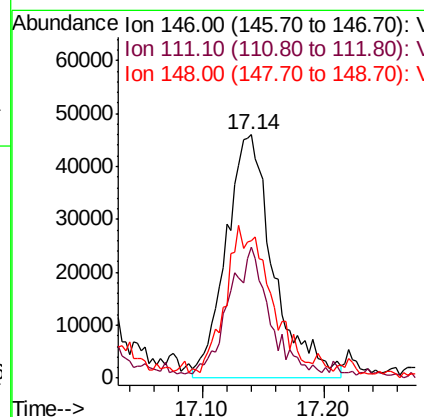
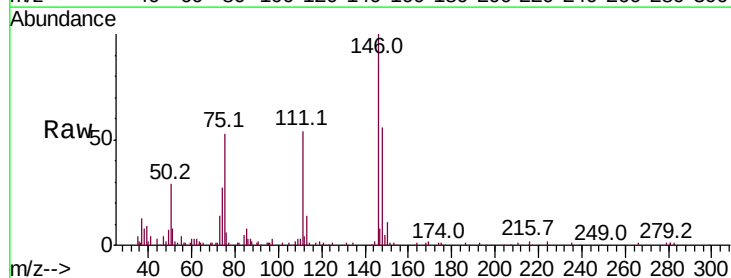
Manual Integrations
 APPROVED

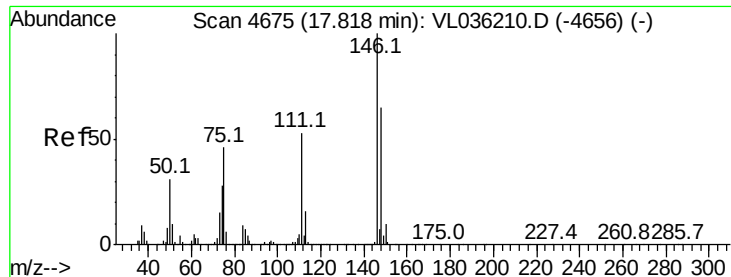
MMDadoda
 1/18/2021 3:48:50 PM



#76
 1,4-Dichlorobenzene
 Concen: 0.696 ppbv m
 RT: 17.14 min Scan# 4464
 Delta R.T. 0.00 min
 Lab File: VL036213.D
 Acq: 13 Jan 2021 4:30

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	124056		
111	52.4	25.4	76.0	
148	64.7	33.3	99.9	





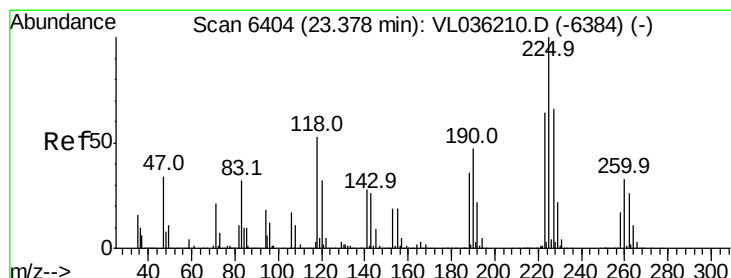
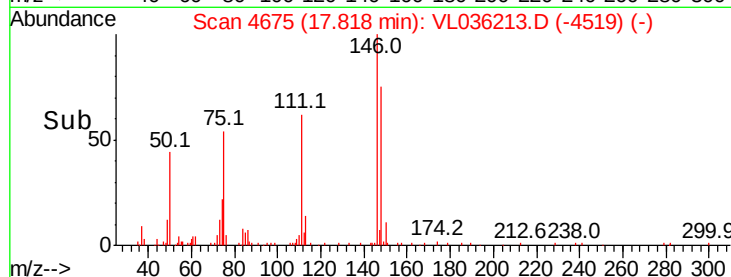
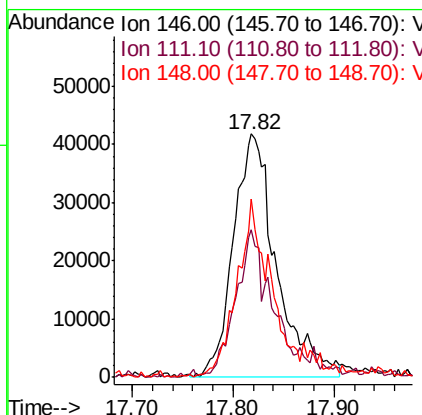
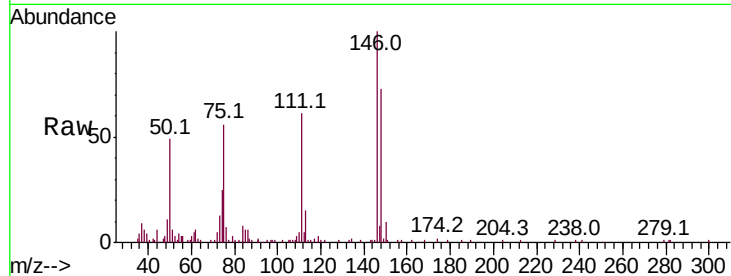
#77
 1,2-Dichlorobenzene
 Concen: 0.731 ppbv m
 RT: 17.82 min Scan# 4675
 Delta R.T. -0.00 min
 Lab File: VL036213.D
 Acq: 13 Jan 2021 4:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	55.8	26.5	79.4
148	61.7	32.8	98.4

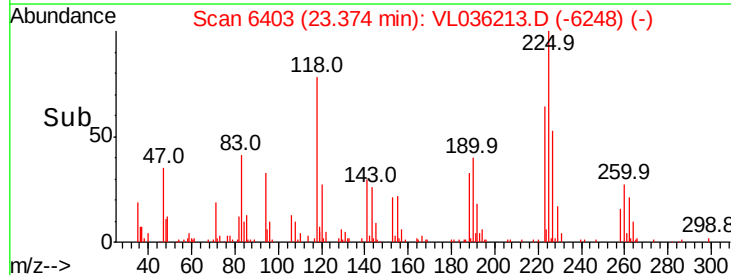
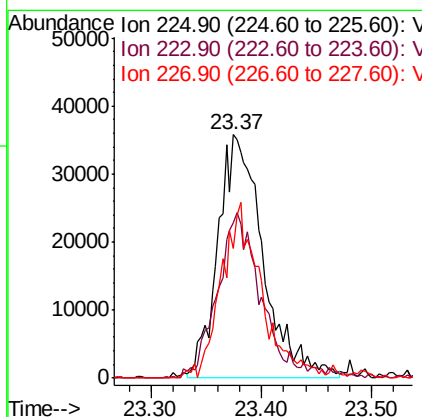
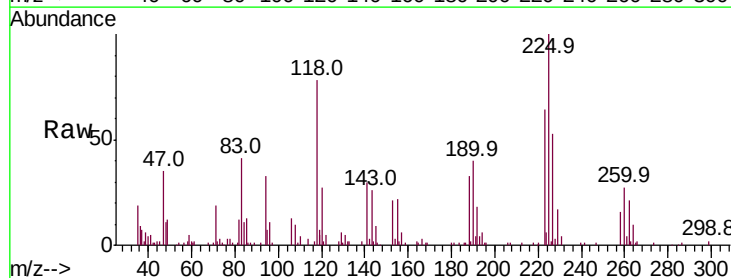
Manual Integrations
 APPROVED

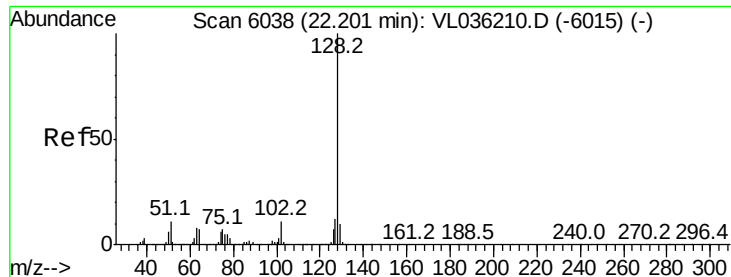
MMDadoda
 1/18/2021 3:48:50 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.765 ppbv m
 RT: 23.37 min Scan# 6403
 Delta R.T. -0.00 min
 Lab File: VL036213.D
 Acq: 13 Jan 2021 4:30

Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.8	50.5	75.7
227	65.8	51.7	77.5





#79

Naphthalene

Concen: 0.500 ppbv m

RT: 22.22 min Scan# 6043

Delta R.T. 0.02 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Instrument :

MSVOA_L

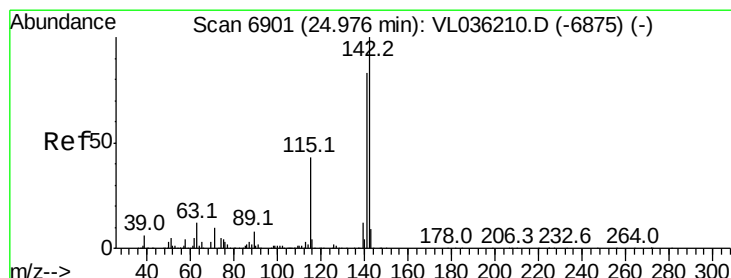
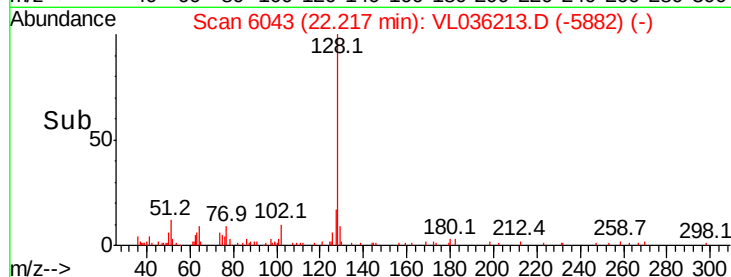
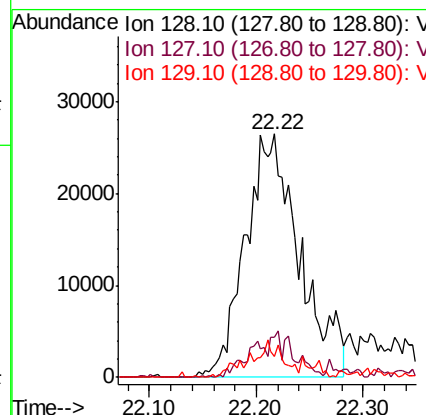
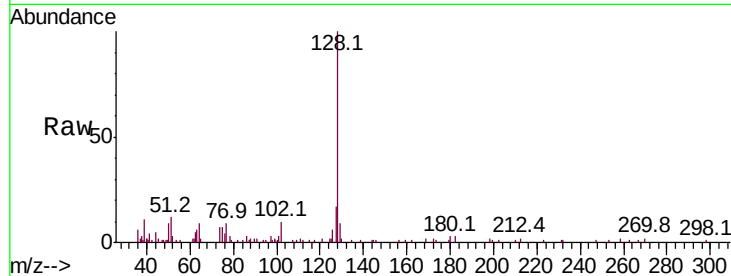
ClientSampleId :

VSTDIC0.5

Tot Ion:	128	Resp:	92822
Ion Ratio	Lower	Upper	
128	100		
127	16.5	9.9	14.9#
129	8.5	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:48:50 PM



#80

Naphthalene, 2-methyl-

Concen: 0.412 ppbv m

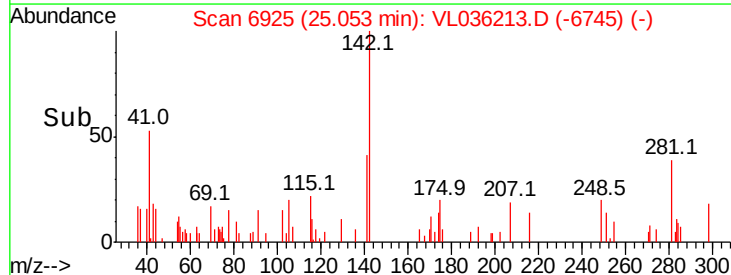
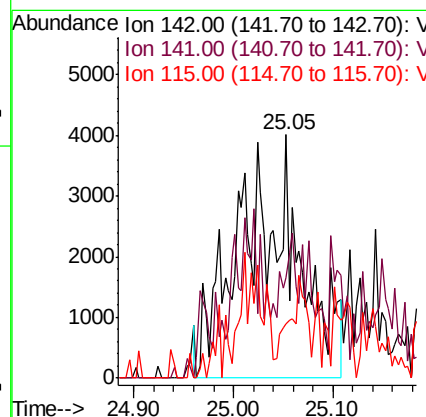
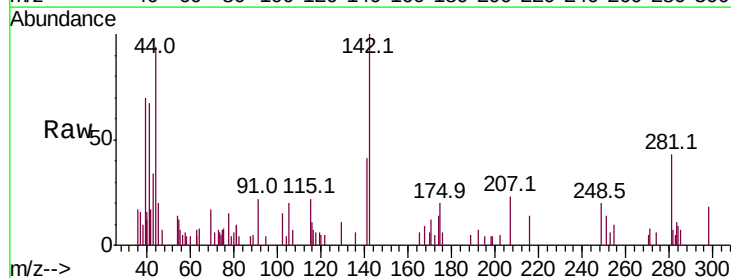
RT: 25.05 min Scan# 6925

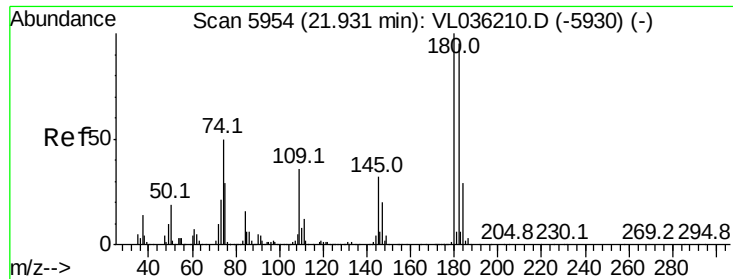
Delta R.T. 0.08 min

Lab File: VL036213.D

Acq: 13 Jan 2021 4:30

Tgt Ion:	142	Resp:	15630
Ion Ratio	Lower	Upper	
142	100		
141	43.6	68.6	102.8#
115	24.8	32.9	49.3#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.572 ppbv m
 RT: 21.93 min Scan# 5955
 Delta R.T. 0.00 min
 Lab File: VL036213.D
 Acq: 13 Jan 2021 4:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	79.9	119.9#
184	0.0	25.6	38.4#

Manual Integrations
 APPROVED

MMDadoda
 1/18/2021 3:48:50 PM

