

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL034001.D
 Acq On : 3 Jul 2019 1:56
 Operator : SY/AP
 Sample : K3591-14 L00 0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:39 PM

Quant Time: Jul 03 09:17:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 03 09:17:48 2019
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	953550	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2675226	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	2474007	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	2064413	9.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	121304	0.616	ppbv	99
3) Chlorodifluoromethane	3.00	51	64292	0.546	ppbv	100
4) Chloromethane	3.16	50	33362	0.493	ppbv	93
5) Vinyl Chloride	3.27	62	36898	0.485	ppbv	98
6) Bromomethane	3.50	94	25270m	0.563	ppbv	
7) Chloroethane	3.59	64	15603	0.573	ppbv #	82
8) Dichlorotetrafluoroethane	3.21	85	104727	0.546	ppbv	97
9) Propene	3.02	41	19523	0.451	ppbv	91
10) Heptane	8.21	43	44811m	0.413	ppbv	
11) Trichlorofluoromethane	3.98	101	117726	0.532	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.53	101	85448	0.546	ppbv	97
13) Ethanol	3.64	45	6119m	0.455	ppbv	
14) Bromoethene	3.77	108	29549	0.505	ppbv	100
15) Acetone	3.89	43	85121	0.531	ppbv	98
16) 1,3-Butadiene	3.35	39	24640	0.435	ppbv	90
17) tert-Butyl alcohol	4.36	59	67732m	0.530	ppbv	
18) 1,1-Dichloroethene	4.33	96	34447m	0.494	ppbv	
19) Isopropyl Alcohol	4.02	45	53309	0.495	ppbv #	92
20) Methylene Chloride	4.39	84	37168	0.532	ppbv	88
21) Allyl Chloride	4.46	41	48061	0.481	ppbv	96
22) trans-1,2-Dichloroethene	4.94	96	36310	0.546	ppbv	94
23) Vinyl Acetate	5.13	43	63101	0.394	ppbv #	95
24) 1,1-Dichloroethane	5.06	63	70064	0.494	ppbv #	94
25) Ethyl Acetate	5.75	43	102978	0.470	ppbv	97
26) Hexane	5.75	57	50119m	0.499	ppbv	
27) Carbon Disulfide	4.60	76	80996	0.475	ppbv #	82
28) Methyl tert-Butyl Ether	5.10	73	71092	0.418	ppbv	94
29) Chloroform	5.82	83	102632	0.544	ppbv	91
30) Cyclohexane	7.22	84	33526m	0.433	ppbv	
31) cis-1,2-Dichloroethene	5.62	61	41357	0.427	ppbv #	82
32) 1,1,1-Trichloroethane	6.59	97	100643	0.527	ppbv	98
34) 2-Butanone	5.31	43	55061m	0.389	ppbv	
35) Carbon Tetrachloride	7.10	117	105570	0.498	ppbv	90
36) Benzene	6.97	78	86491	0.413	ppbv #	82
37) 1,2-Dichloroethane	6.38	62	75079m	0.487	ppbv	
38) Trichloroethene	7.93	130	36380m	0.391	ppbv	
39) 1,2-Dichloropropane	7.71	63	34843	0.448	ppbv #	87
40) 1,4-Dioxane	7.98	88	13454m	0.374	ppbv	
41) Tetrahydrofuran	6.15	42	21832m	0.314	ppbv	
42) Bromodichloromethane	7.88	83	96799	0.468	ppbv	86
43) Methyl Methacrylate	8.12	69	26824m	0.338	ppbv	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL034001.D
 Acq On : 3 Jul 2019 1:56
 Operator : SY/AP
 Sample : K3591-14 L00 0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:39 PM

Quant Time: Jul 03 09:17:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.96	57	140707m	0.389	ppbv	
45) t-1,3-Dichloropropene	9.38	75	33911m	0.327	ppbv	
46) cis-1,3-Dichloropropene	8.80	75	39101	0.325	ppbv	# 66
47) 1,1,2-Trichloroethane	9.58	97	41737	0.426	ppbv	93
48) Dibromochloromethane	10.41	129	77396	0.414	ppbv	97
49) Bromoform	13.16	173	71946	0.451	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	76907m	0.366	ppbv	
51) 2-Hexanone	10.27	43	49062m	0.290	ppbv	
52) Tetrachloroethene	11.34	164	36997m	0.411	ppbv	
53) Toluene	9.91	91	75245	0.314	ppbv	97
54) 1,2-Dibromoethane	10.72	107	60825	0.421	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.24	131	60401m	0.546	ppbv	
57) Chlorobenzene	12.26	112	107665m	0.547	ppbv	
58) Ethyl Benzene	12.83	91	106375	0.358	ppbv	93
59) m/p-Xylene	13.12	91	227605m	0.845	ppbv	
60) o-Xylene	13.81	91	114333	0.424	ppbv	96
61) Styrene	13.65	104	55063m	0.309	ppbv	
62) Isopropylbenzene	14.79	105	163533	0.395	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.79	83	107184m	0.514	ppbv	
64) n-propylbenzene	15.69	120	41471m	0.386	ppbv	
65) tert-Butylbenzene	16.88	119	145983m	0.414	ppbv	
66) Benzyl Chloride	17.12	91	68408m	0.380	ppbv	
67) sec-Butylbenzene	17.42	105	217606	0.440	ppbv	98
69) p-Isopropyltoluene	17.78	119	161333	0.396	ppbv	99
70) n-Butylbenzene	18.68	91	171203	0.400	ppbv	99
71) 2-Chlorotoluene	15.58	91	104324m	0.344	ppbv	
72) 4-Ethyltoluene	15.97	105	123594m	0.357	ppbv	
73) 1,3,5-Trimethylbenzene	16.12	105	131626m	0.409	ppbv	
74) 1,2,4-Trimethylbenzene	16.88	105	167508m	0.470	ppbv	
75) 1,3-Dichlorobenzene	17.13	146	119272m	0.526	ppbv	
76) 1,4-Dichlorobenzene	17.27	146	101567m	0.476	ppbv	
77) 1,2-Dichlorobenzene	17.96	146	103453m	0.493	ppbv	
78) Hexachloro-1,3-Butadiene	23.51	225	100805m	0.565	ppbv	
79) Naphthalene	22.38	128	96970m	0.323	ppbv	
80) Naphthalene, 2-methyl-	25.09	142	35839	0.328	ppbv	96
81) 1,2,4-Trichlorobenzene	22.09	180	76454m	0.397	ppbv	

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

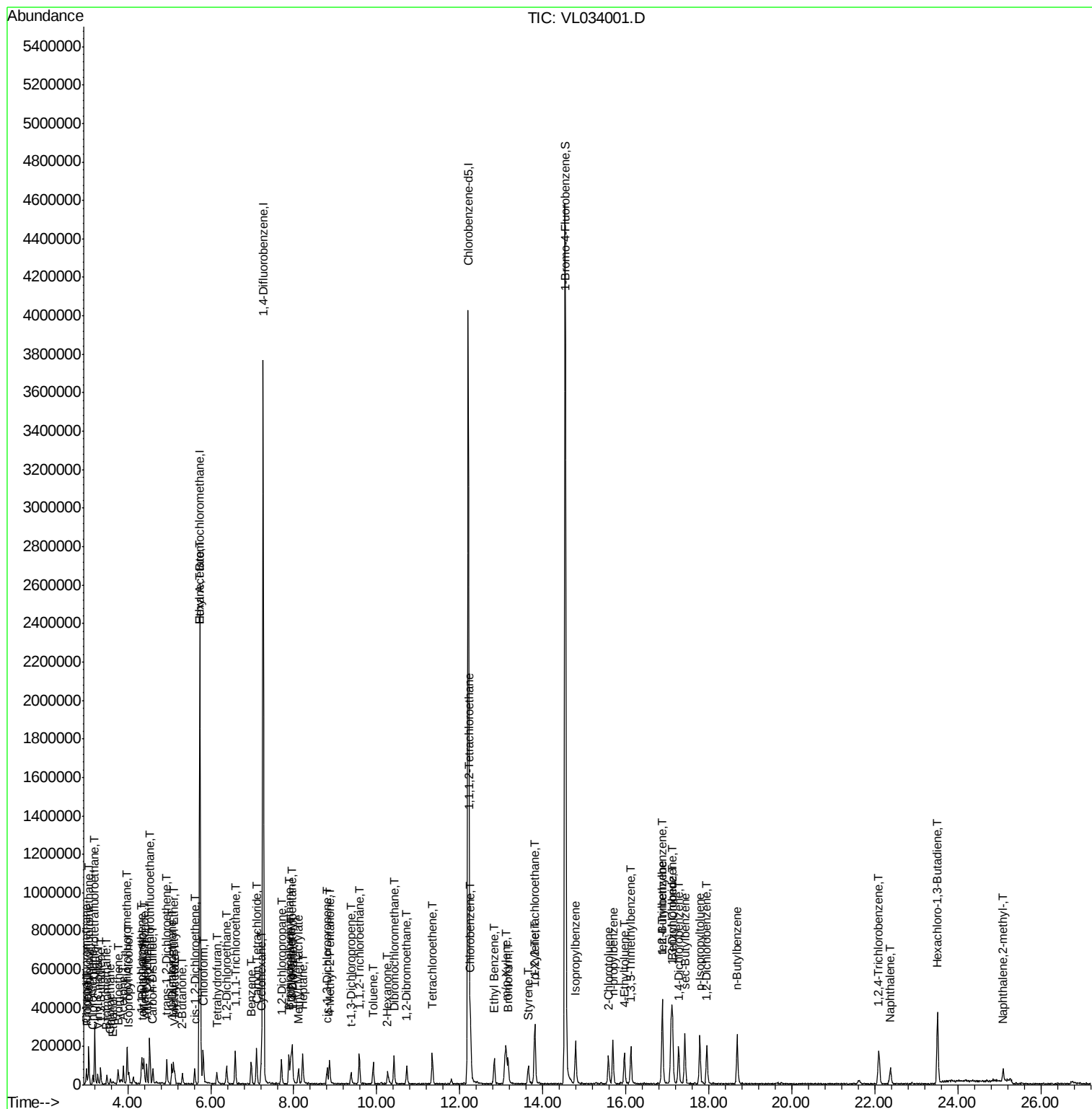
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
Data File : VL034001.D
Acq On : 3 Jul 2019 1:56
Operator : SY/AP
Sample : K3591-14 L00 0.5
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

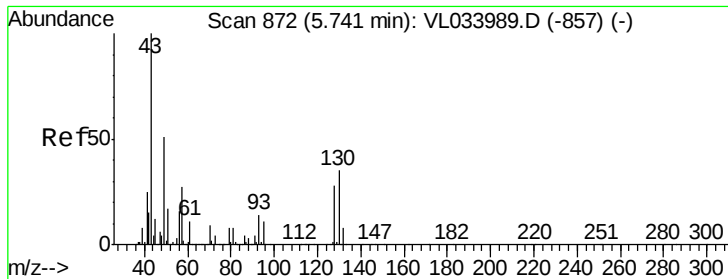
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Manual Integrations
APPROVED

MMDadoda
7/3/2019 11:03:39 PM

Quant Time: Jul 03 09:17:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Jul
QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration





#1

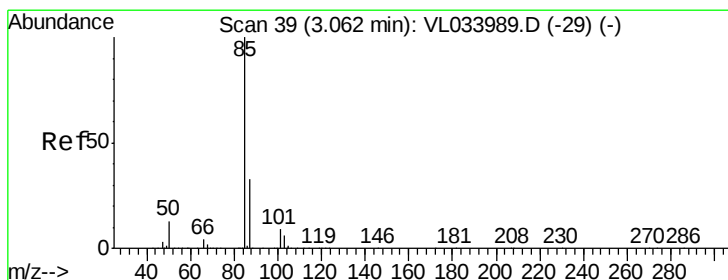
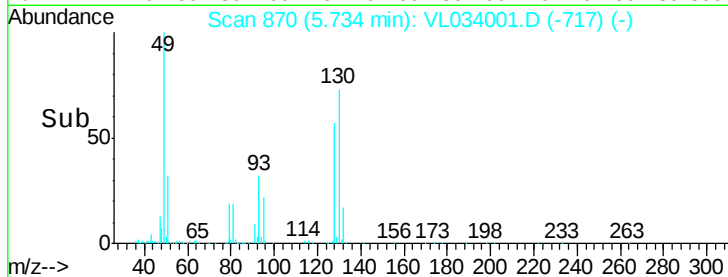
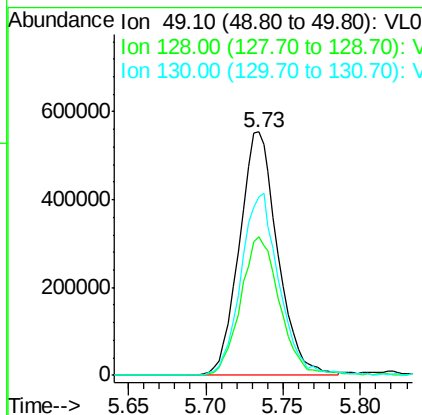
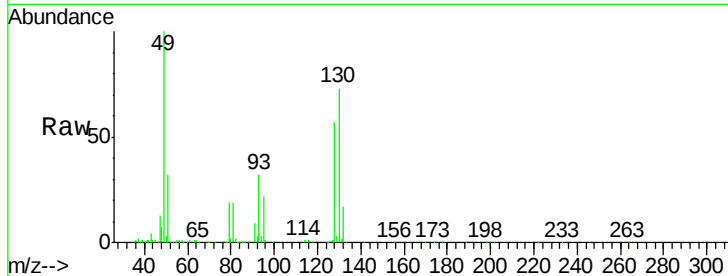
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.73 min Scan# 870
 Delta R.T. -0.01 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
49	100		
128	58.7	27.9	83.6
130	74.5	35.8	107.4

Manual Integrations
 APPROVED

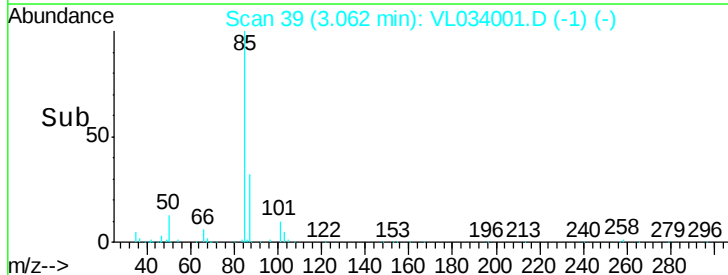
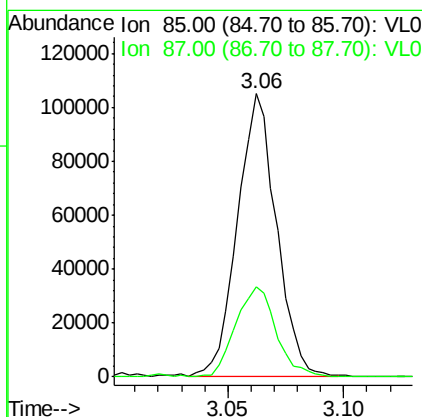
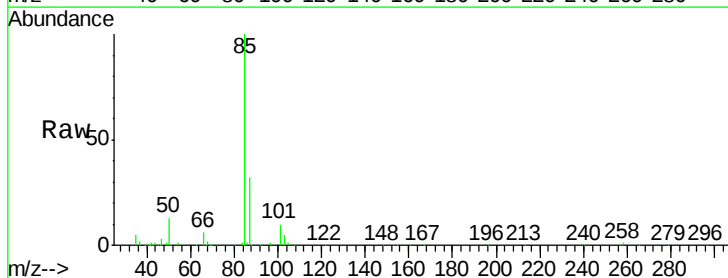
MMDadoda
 7/3/2019 11:03:39 PM

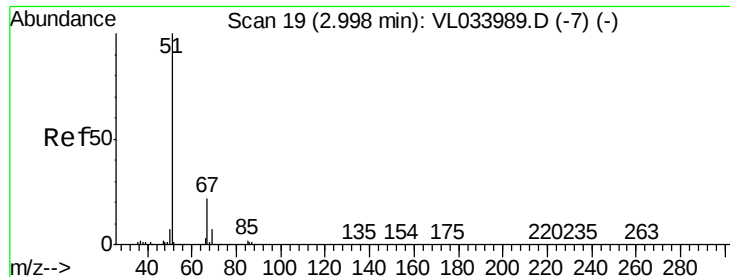


#2

Dichlorodifluoromethane
 Concen: 0.616 ppbv
 RT: 3.06 min Scan# 39
 Delta R.T. -0.00 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.8	26.0	39.0





#3

Chlorodifluoromethane

Concen: 0.546 ppbv

RT: 3.00 min Scan# 20

Delta R.T. 0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Tot Ion: 51 Resp: 64292

Ion Ratio Lower Upper

51 100

67 21.7 17.3 25.9

Instrument :

MSVOA_L

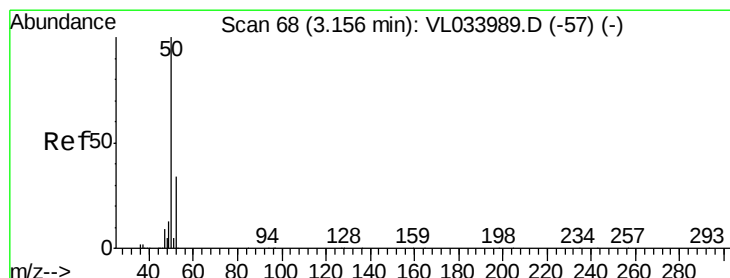
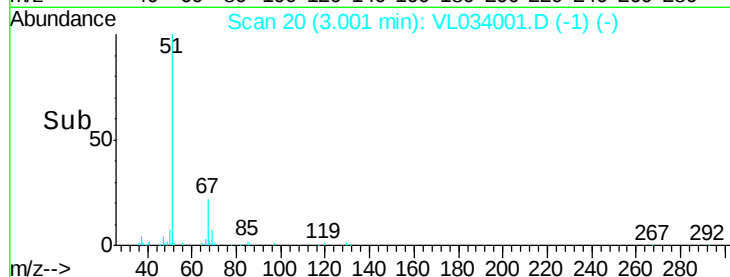
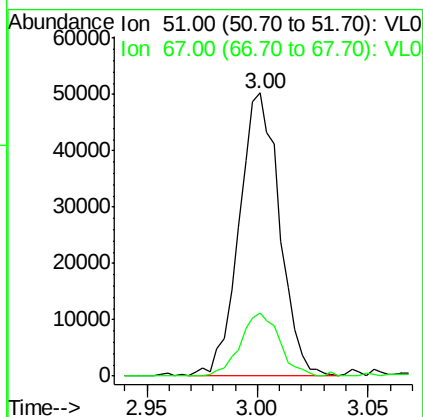
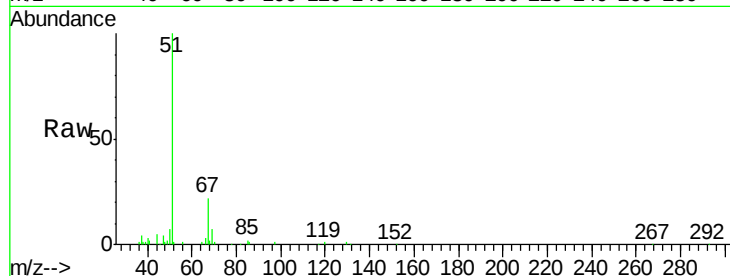
ClientSampleId :

LOQ-AIR-02-QT3-2019

Manual Integrations
APPROVED

MMDadoda

7/3/2019 11:03:39 PM



#4

Chloromethane

Concen: 0.493 ppbv

RT: 3.16 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL034001.D

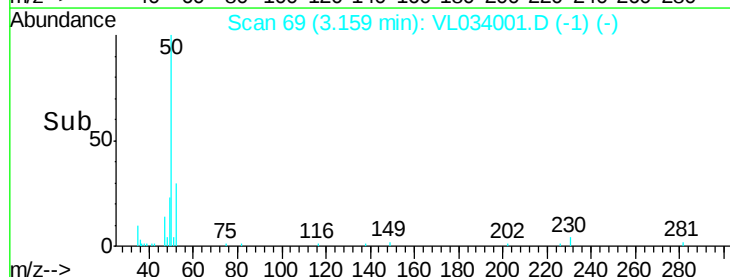
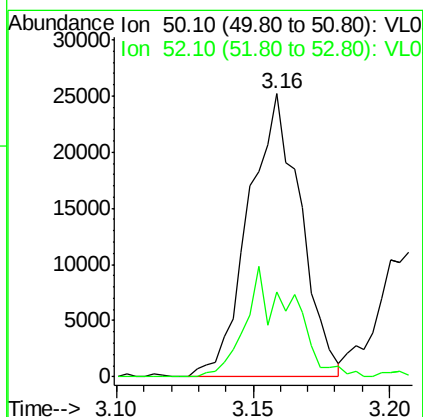
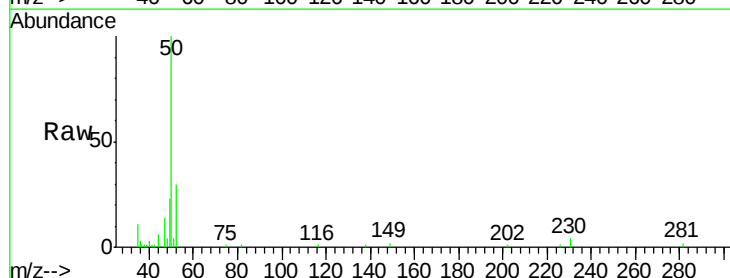
Acq: 3 Jul 2019 1:56

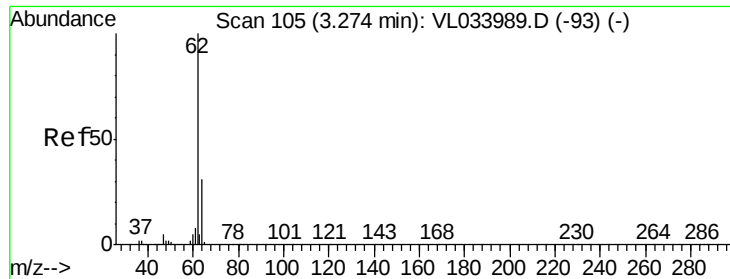
Tgt Ion: 50 Resp: 33362

Ion Ratio Lower Upper

50 100

52 30.0 27.4 41.0





#5

Vinyl Chloride

Concen: 0.485 ppbv

RT: 3.27 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Instrument :

MSVOA_L

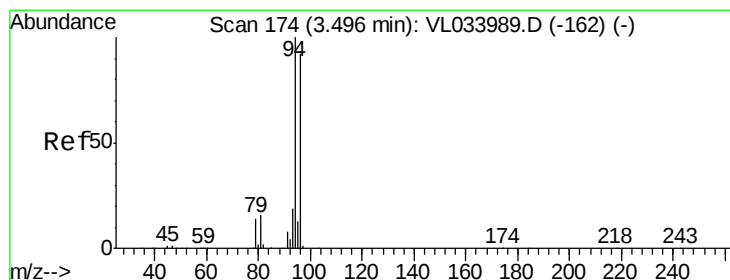
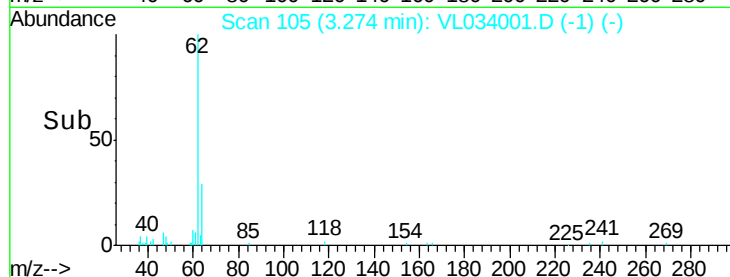
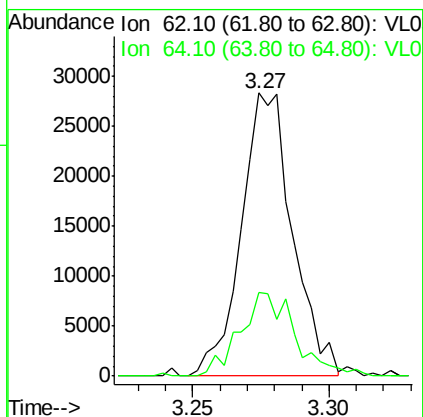
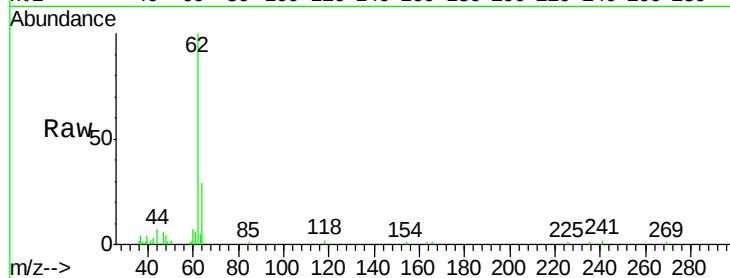
ClientSampleId :

LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
62	100		
64	29.5	24.4	36.6

Manual Integrations
APPROVED

MMDadoda
7/3/2019 11:03:39 PM



#6

Bromomethane

Concen: 0.563 ppbv m

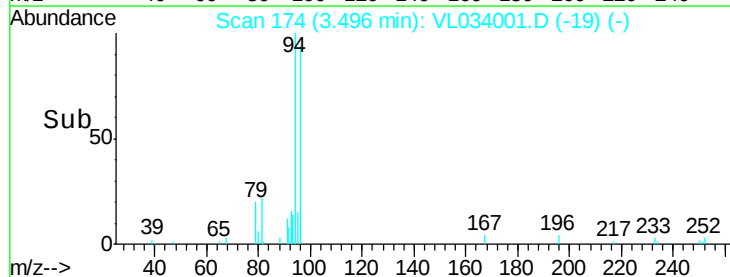
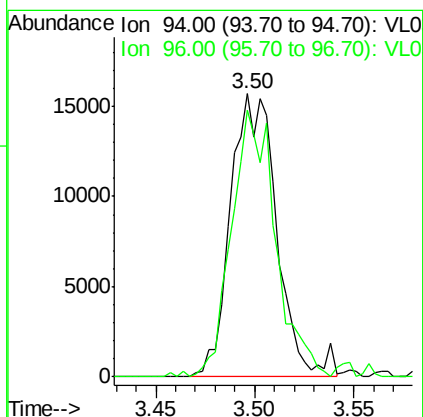
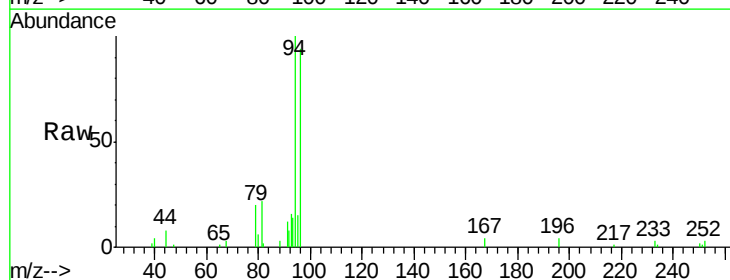
RT: 3.50 min Scan# 174

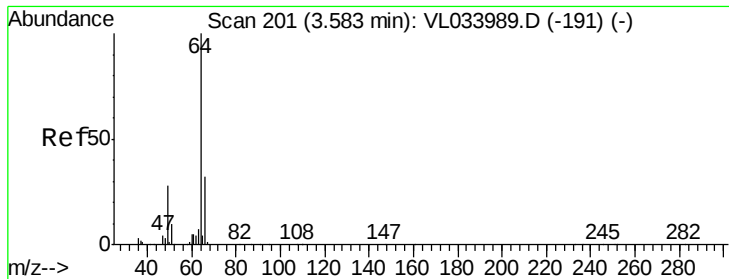
Delta R.T. -0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Lower	Upper
94	100		
96	94.2	73.8	110.8





#7

Chloroethane

Concen: 0.573 ppbv

RT: 3.59 min Scan# 202

Delta R.T. 0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2019

Tot Ion: 64 Resp: 15603

Ion Ratio Lower Upper

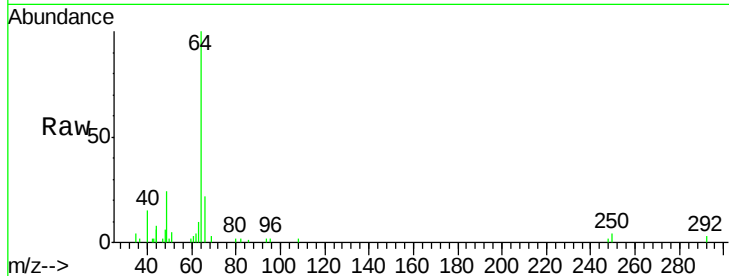
64 100

66 21.6 25.3 37.9#

Manual Integrations
APPROVED

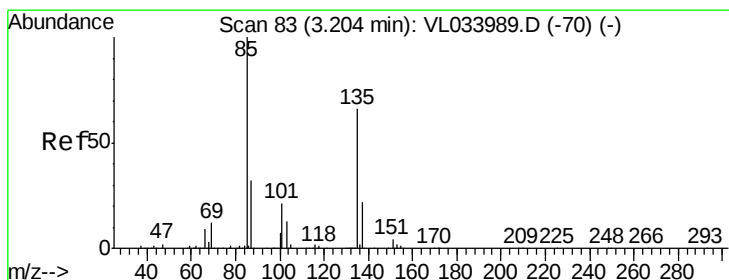
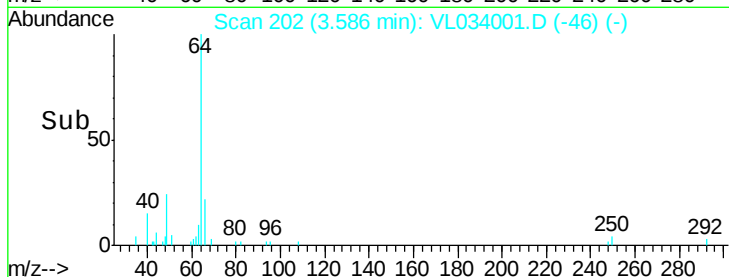
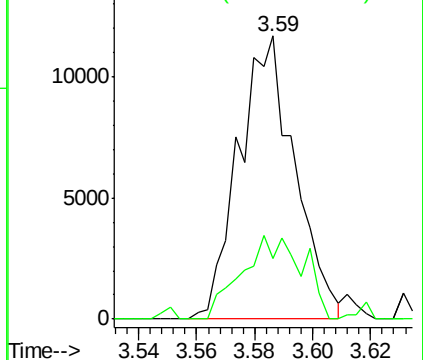
MMDadoda

7/3/2019 11:03:39 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.546 ppbv

RT: 3.21 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL034001.D

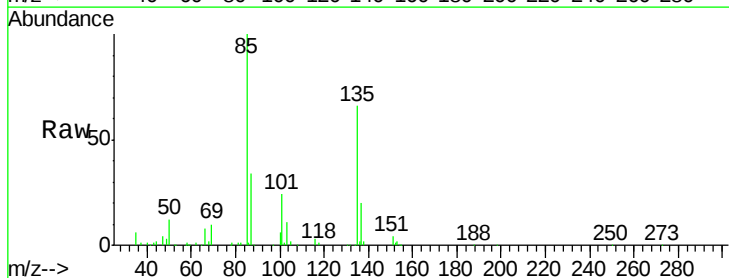
Acq: 3 Jul 2019 1:56

Tgt Ion: 85 Resp: 104727

Ion Ratio Lower Upper

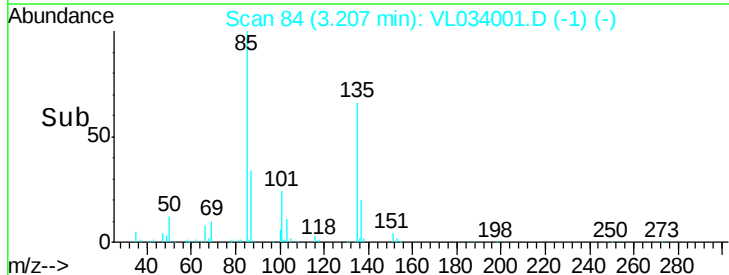
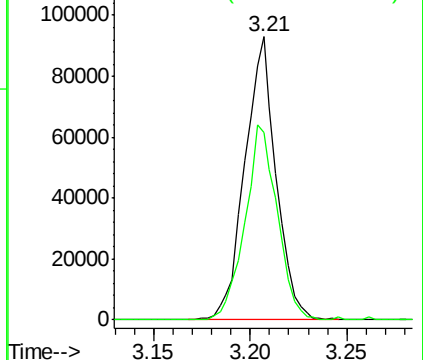
85 100

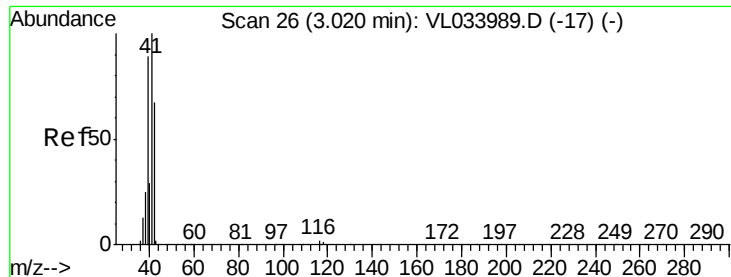
135 71.1 55.0 82.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.451 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2019

Tot Ion: 41 Resp: 19523

Ion Ratio Lower Upper

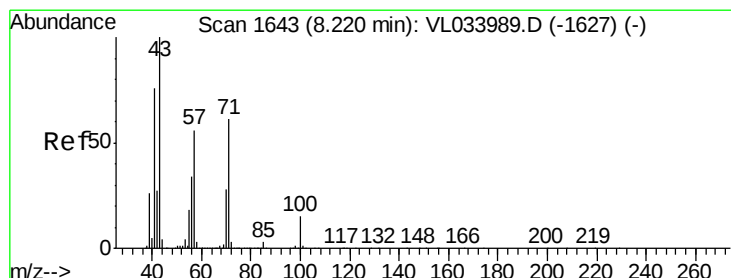
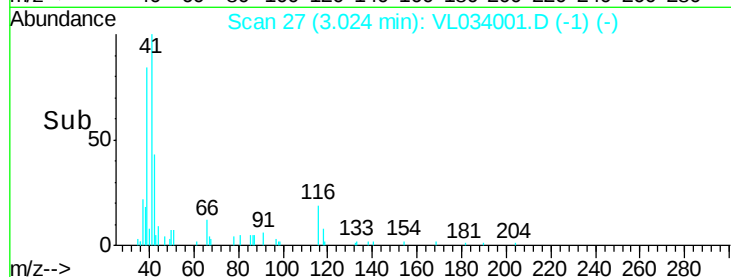
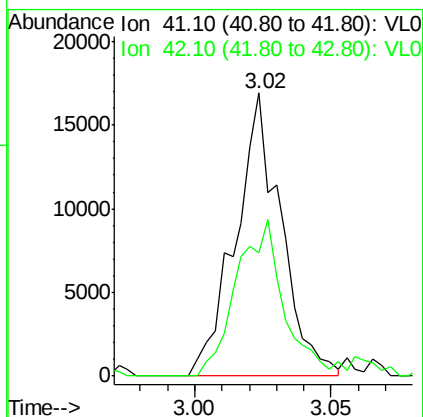
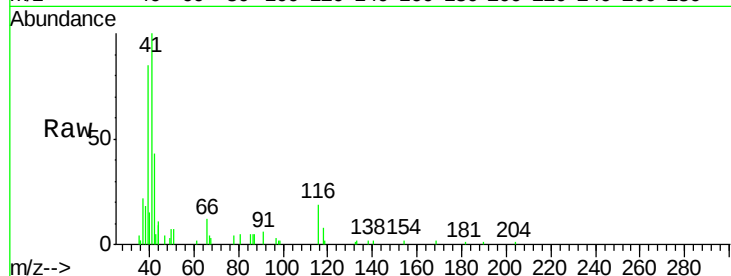
41 100

42 63.9 57.1 85.7

Manual Integrations
APPROVED

MMDadoda

7/3/2019 11:03:39 PM



#10

Heptane

Concen: 0.413 ppbv m

RT: 8.21 min Scan# 1640

Delta R.T. -0.01 min

Lab File: VL034001.D

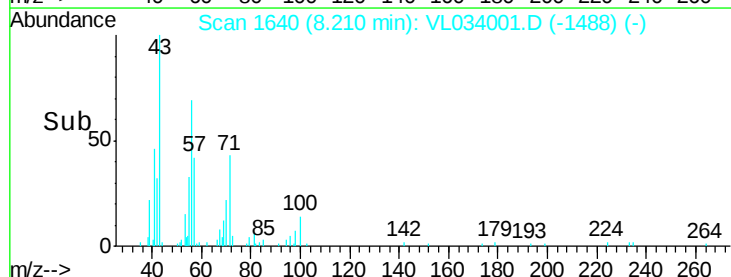
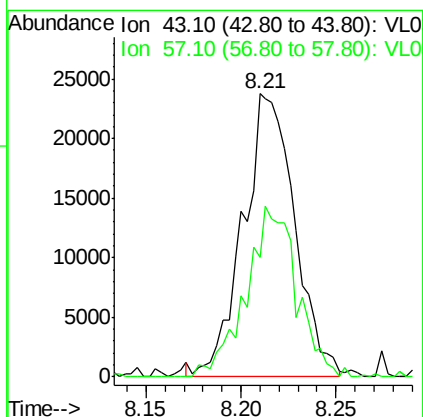
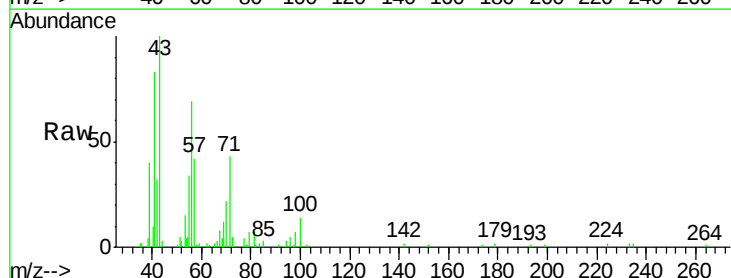
Acq: 3 Jul 2019 1:56

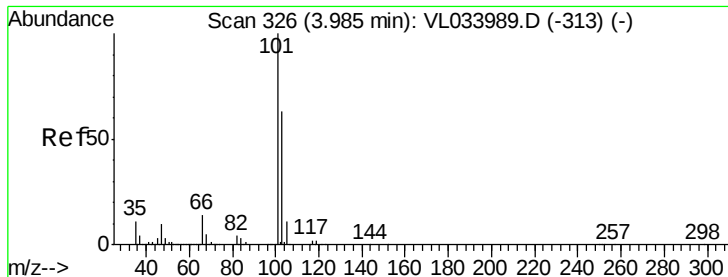
Tgt Ion: 43 Resp: 44811

Ion Ratio Lower Upper

43 100

57 58.8 44.6 66.8





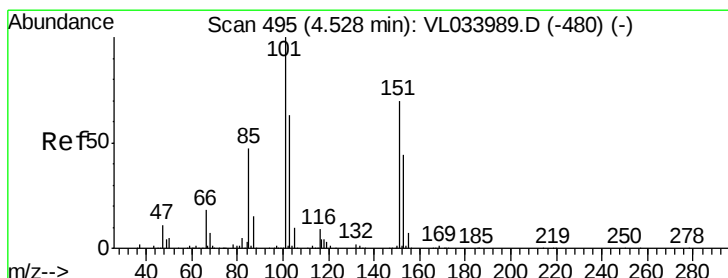
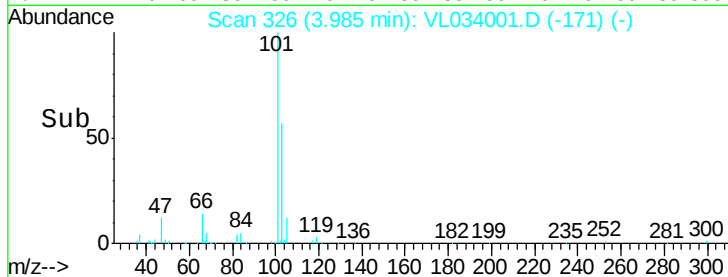
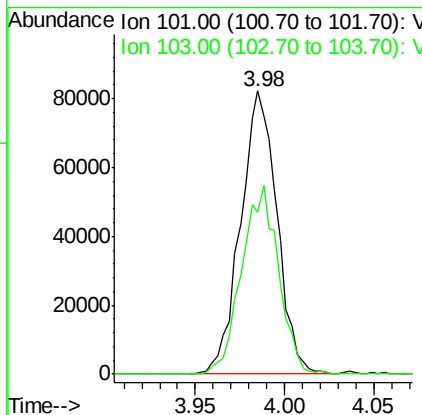
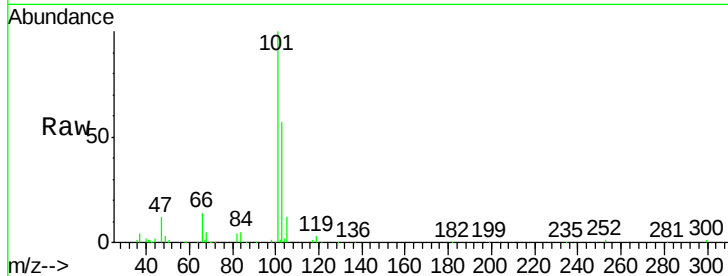
#11
 Trichlorofluoromethane
 Concen: 0.532 ppbv
 RT: 3.98 min Scan# 326
 Delta R.T. -0.00 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	57.0	50.8	76.2

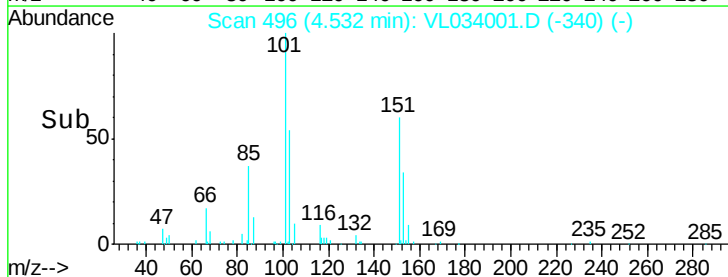
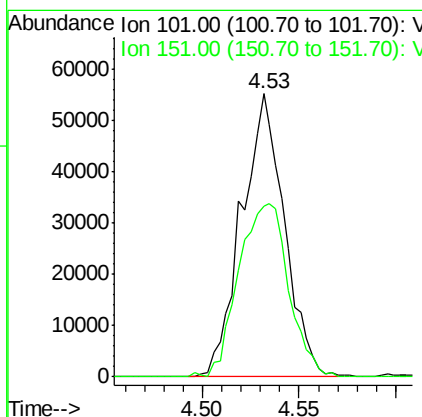
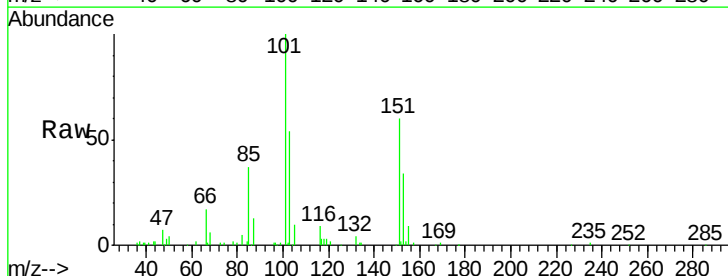
Manual Integrations
 APPROVED

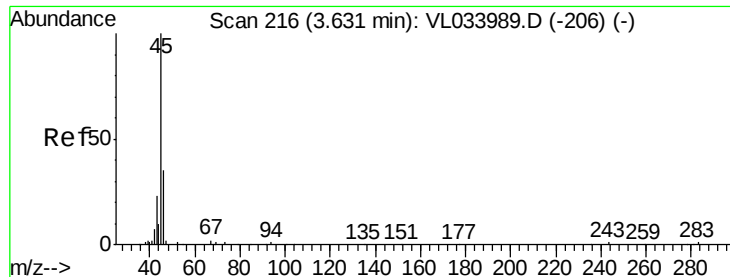
MMDadoda
 7/3/2019 11:03:39 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.546 ppbv
 RT: 4.53 min Scan# 496
 Delta R.T. 0.00 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Lower	Upper
101	100		
151	71.1	59.0	88.4





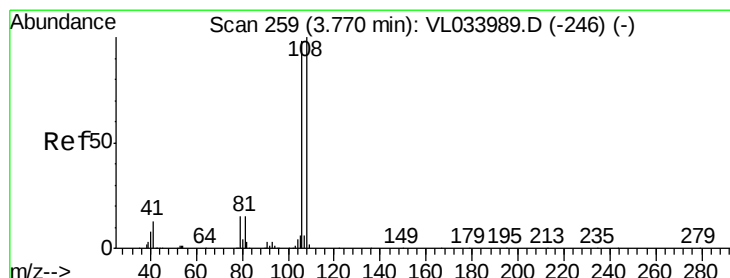
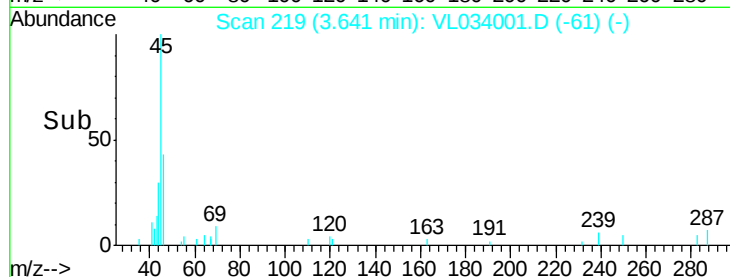
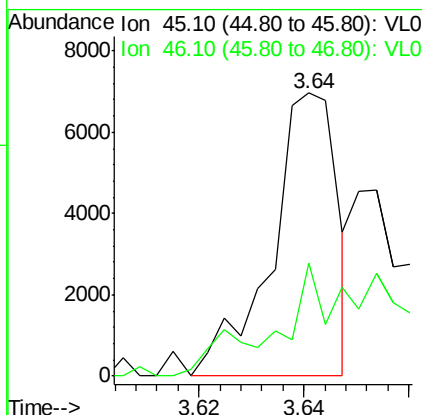
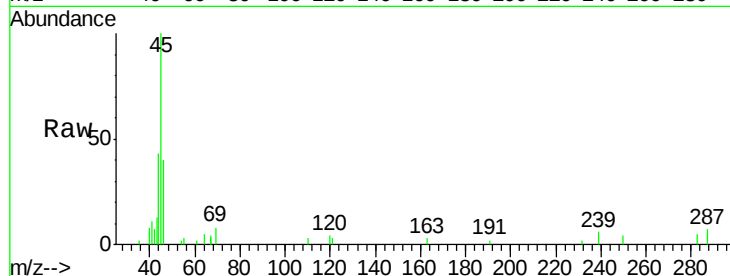
#13
Ethanol
Concen: 0.455 ppbv m
RT: 3.64 min Scan# 219
Delta R.T. 0.01 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Tot Ion: 45 Resp: 6119
Ion Ratio Lower Upper
45 100
46 69.8 16.2 64.6#

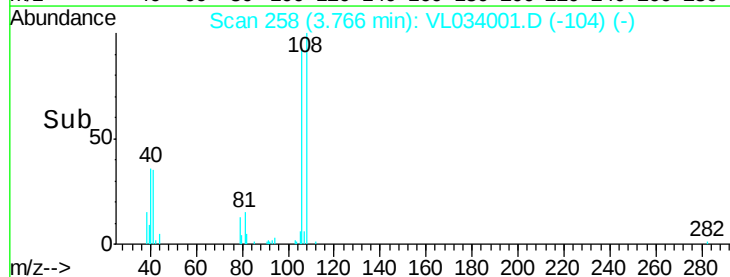
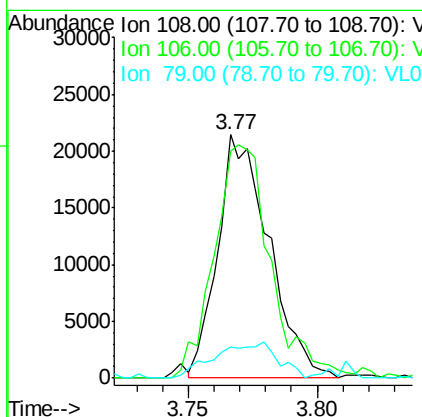
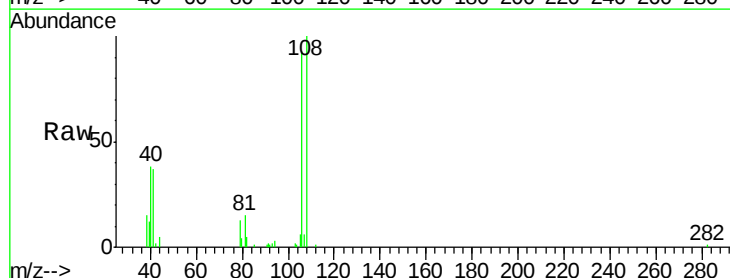
Manual Integrations
APPROVED

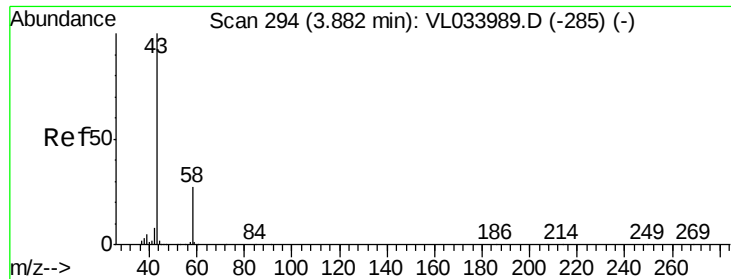
MMDadoda
7/3/2019 11:03:39 PM



#14
Bromoethene
Concen: 0.505 ppbv
RT: 3.77 min Scan# 258
Delta R.T. -0.00 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Tgt Ion: 108 Resp: 29549
Ion Ratio Lower Upper
108 100
106 107.2 85.6 128.4
79 18.4 14.0 21.0





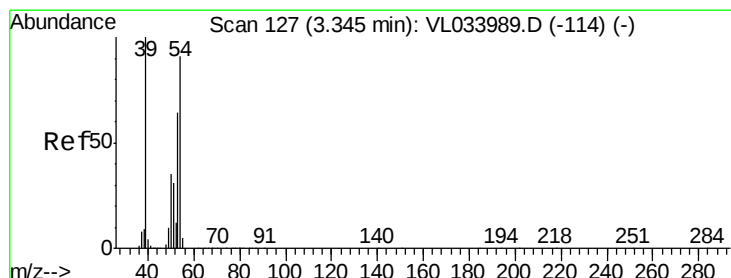
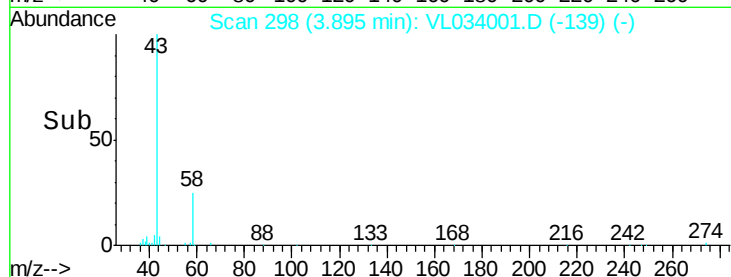
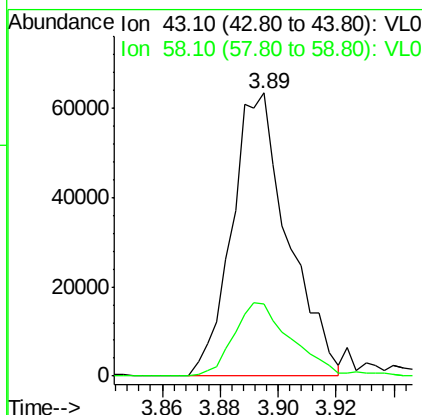
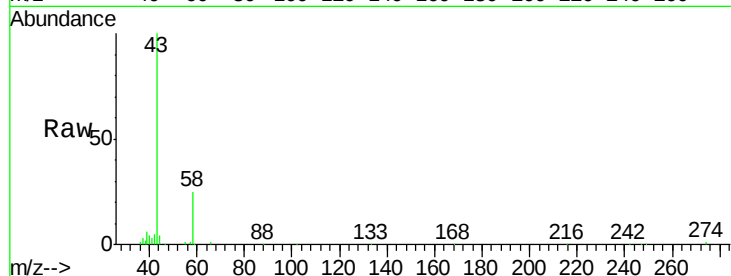
#15
Acetone
Concen: 0.531 ppbv
RT: 3.89 min Scan# 298
Delta R.T. 0.01 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Tot Ion: 43 Resp: 85121
Ion Ratio Lower Upper
43 100
58 27.8 21.4 32.0

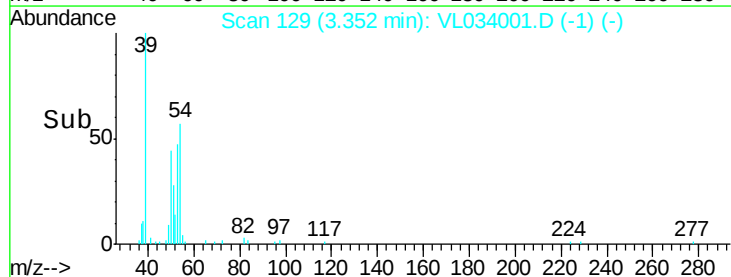
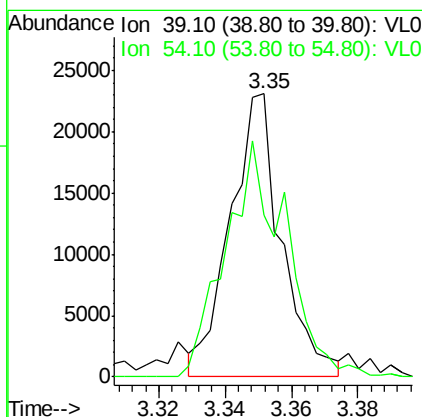
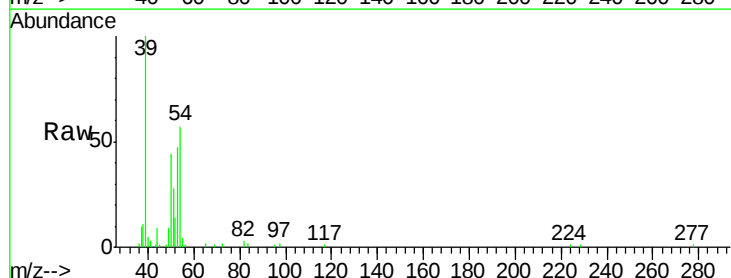
Manual Integrations
APPROVED

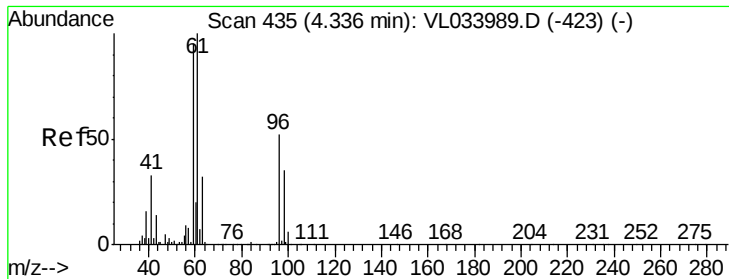
MMDadoda
7/3/2019 11:03:39 PM



#16
1,3-Butadiene
Concen: 0.435 ppbv
RT: 3.35 min Scan# 129
Delta R.T. 0.01 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Tgt Ion: 39 Resp: 24640
Ion Ratio Lower Upper
39 100
54 98.4 71.4 107.2





#17

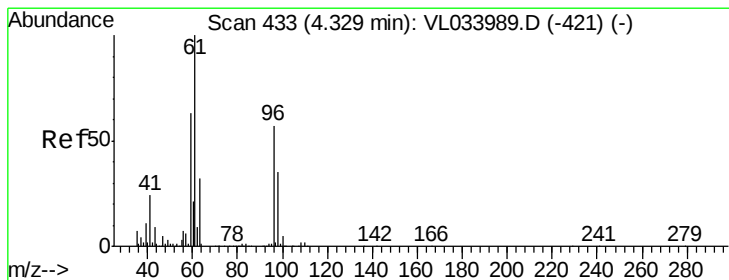
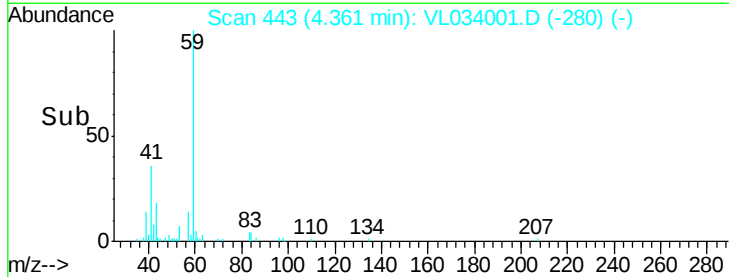
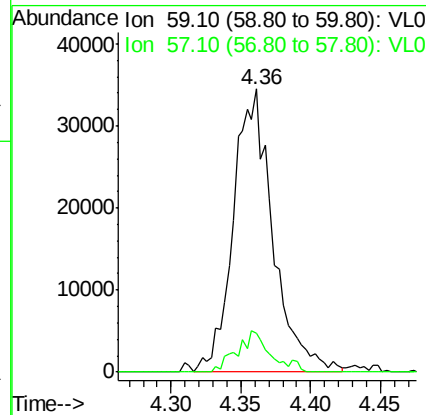
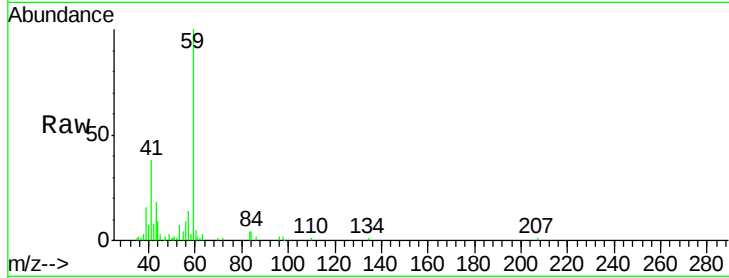
tert-Butyl alcohol
Concen: 0.530 ppbv m
RT: 4.36 min Scan# 443
Delta R.T. 0.03 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2#

Manual Integrations
APPROVED

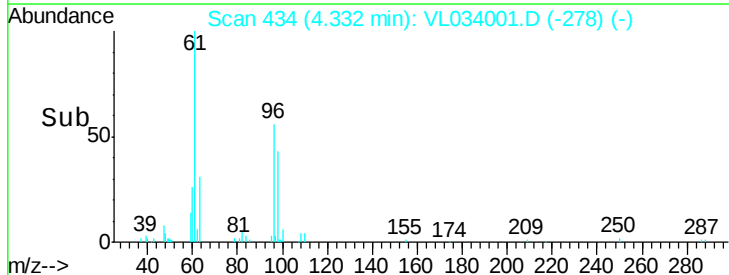
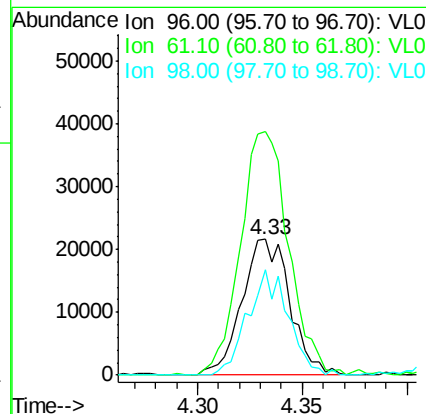
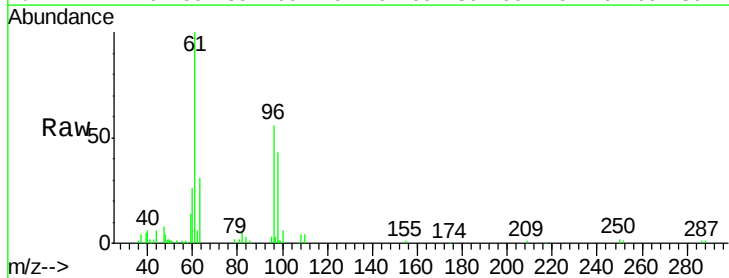
MMDadoda
7/3/2019 11:03:39 PM

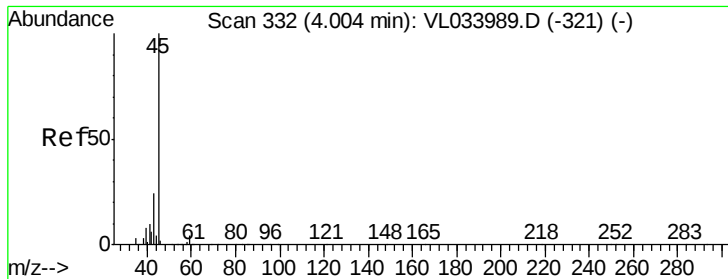


#18

1,1-Dichloroethene
Concen: 0.494 ppbv m
RT: 4.33 min Scan# 434
Delta R.T. 0.00 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Lower	Upper
96	100		
61	179.6	139.4	209.0
98	77.4	49.4	74.0#





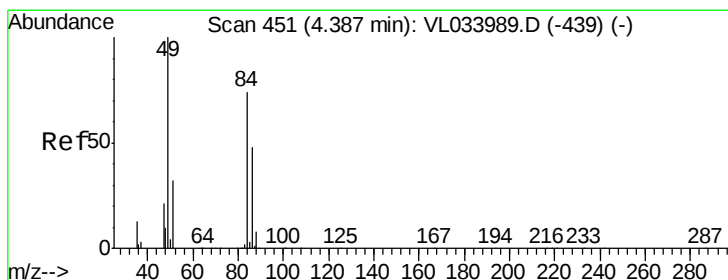
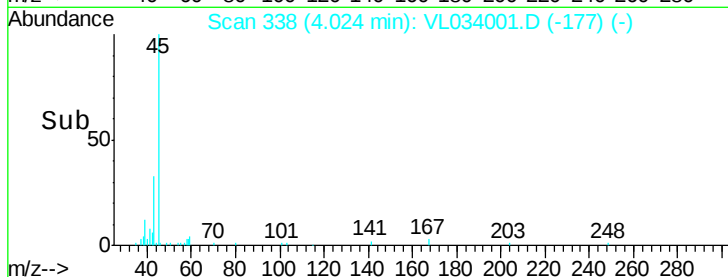
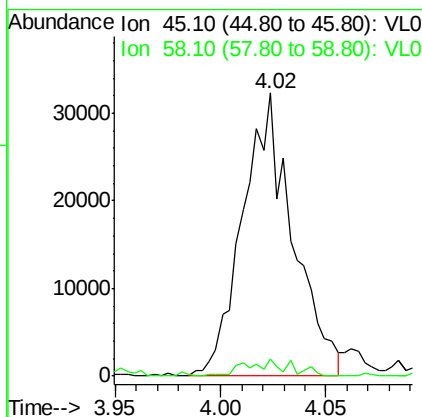
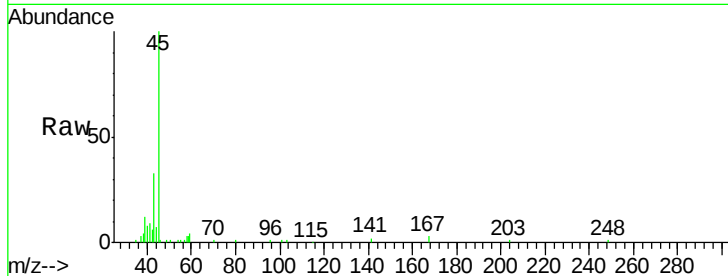
#19
Isopropyl Alcohol
Concen: 0.495 ppbv
RT: 4.02 min Scan# 338
Delta R.T. 0.02 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
45	100		
58	5.0	1.7	2.5#

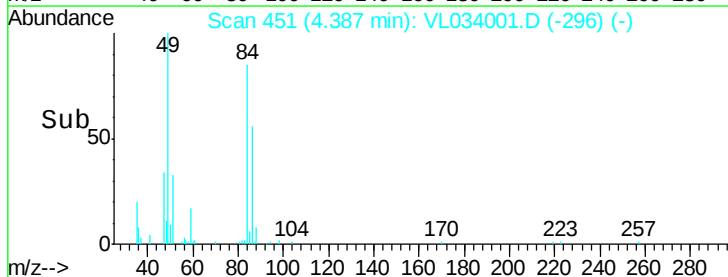
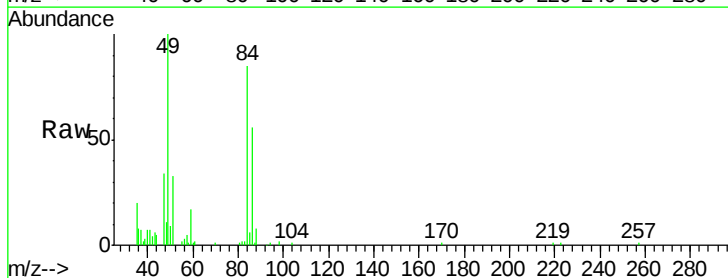
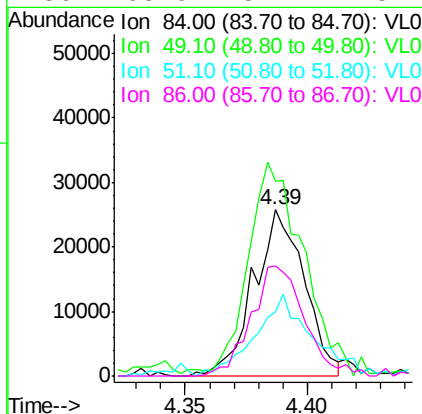
Manual Integrations
APPROVED

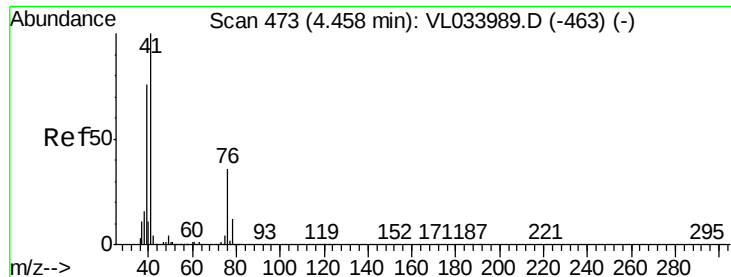
MMDadoda
7/3/2019 11:03:39 PM



#20
Methylene Chloride
Concen: 0.532 ppbv
RT: 4.39 min Scan# 451
Delta R.T. -0.00 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Lower	Upper
84	100		
49	113.6	107.6	161.4
51	35.2	35.0	52.6
86	65.9	52.1	78.1





#21

Allvl Chloride

Concen: 0.481 ppbv

RT: 4.46 min Scan# 473

Delta R.T. -0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Instrument :

MSVOA_L

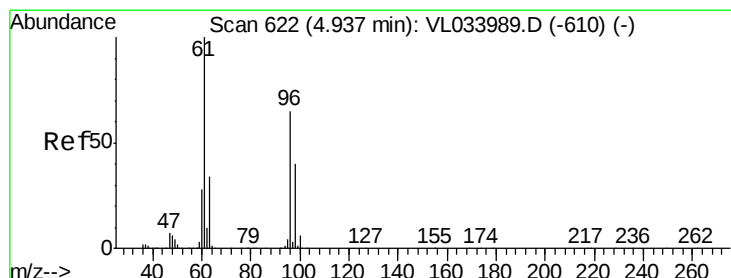
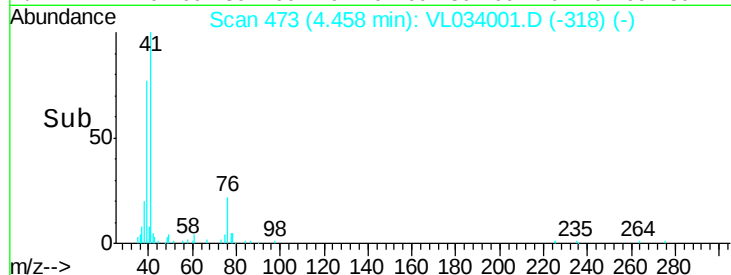
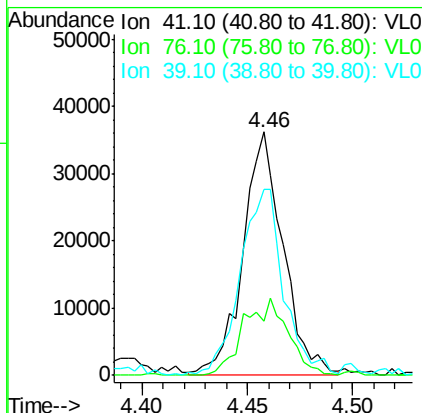
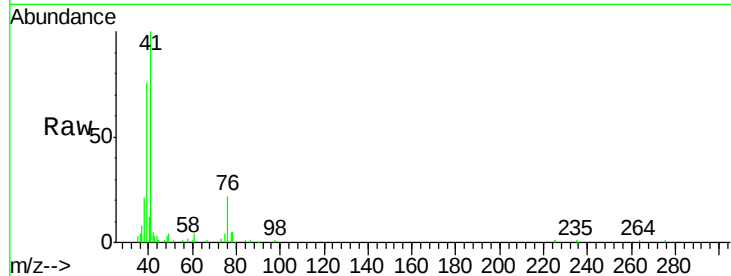
ClientSampleId :

LOQ-AIR-02-QT3-2019

Tot Ion:	41	Resp:	48061
Ion Ratio		Lower	Upper
41	100		
76	35.4	26.8	40.2
39	83.1	63.1	94.7

Manual Integrations
APPROVED

MMDadoda
7/3/2019 11:03:39 PM



#22

trans-1,2-Dichloroethene

Concen: 0.546 ppbv

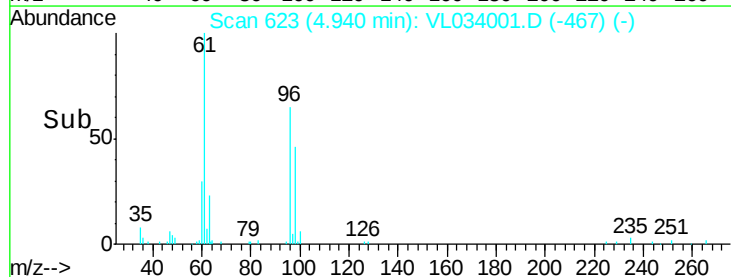
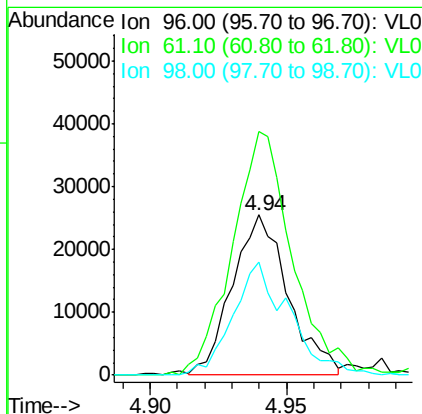
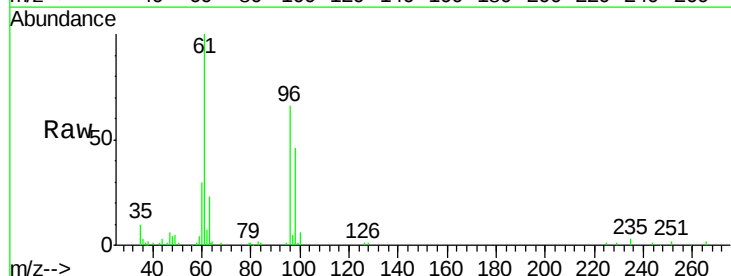
RT: 4.94 min Scan# 623

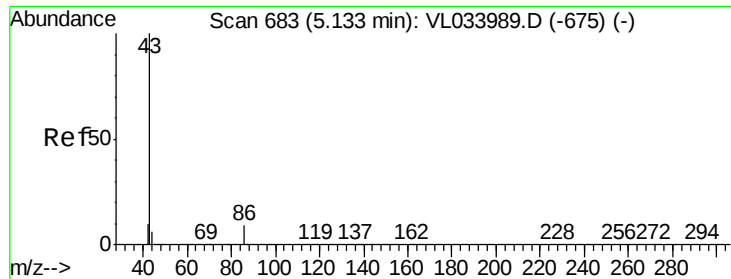
Delta R.T. 0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Tgt Ion:	96	Resp:	36310
Ion Ratio		Lower	Upper
96	100		
61	147.2	122.9	184.3
98	69.7	49.6	74.4





#23

Vinyl Acetate

Concen: 0.394 ppbv

RT: 5.13 min Scan# 683

Delta R.T. -0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Instrument :

MSVOA_L

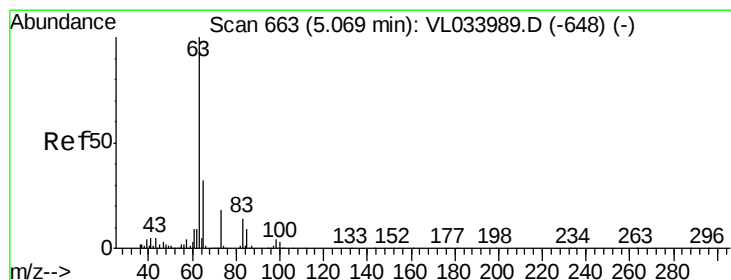
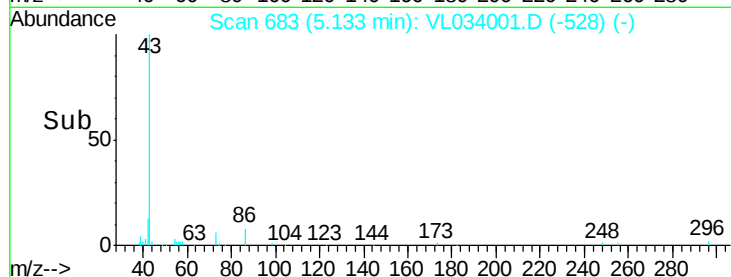
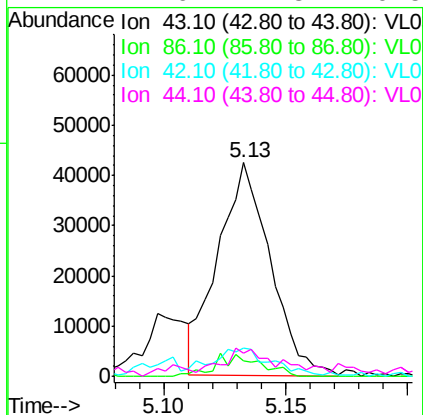
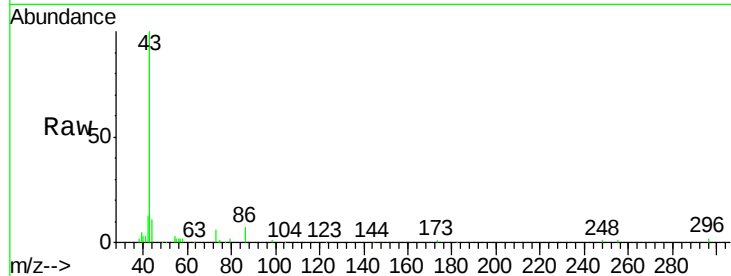
ClientSampleId :

LOQ-AIR-02-QT3-2019

Tot Ion	43	Resp	63101
Ion Ratio	Lower	Upper	
43	100		
86	7.5	6.6	9.8
42	13.0	8.3	12.5#
44	7.6	4.3	6.5#

Manual Integrations
APPROVED

MMDadoda
7/3/2019 11:03:39 PM



#24

1,1-Dichloroethane

Concen: 0.494 ppbv

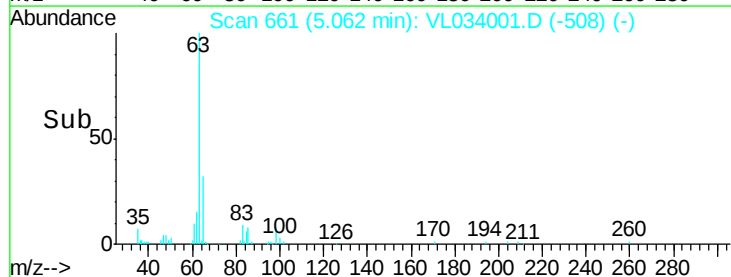
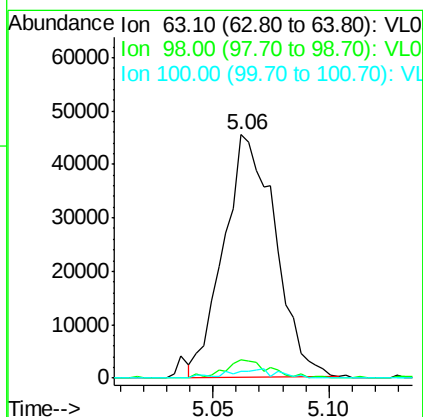
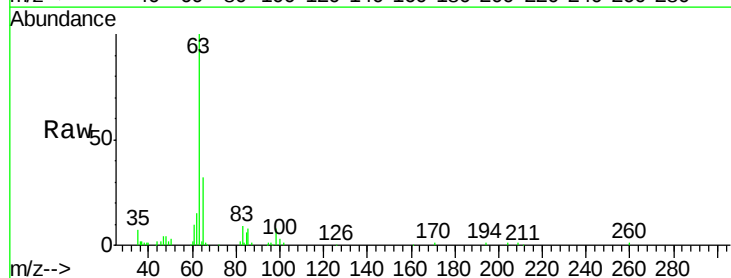
RT: 5.06 min Scan# 661

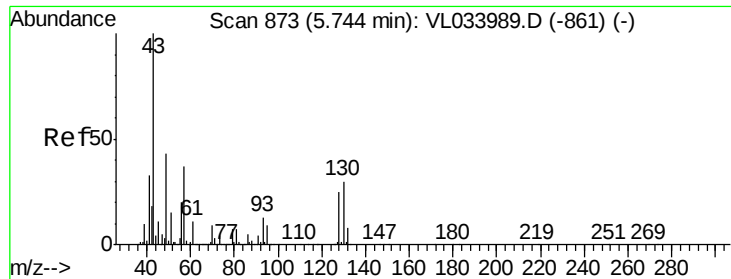
Delta R.T. -0.01 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Tgt Ion	63	Resp	70064
Ion Ratio	Lower	Upper	
63	100		
98	7.6	2.2	6.6#
100	3.0	1.4	4.2





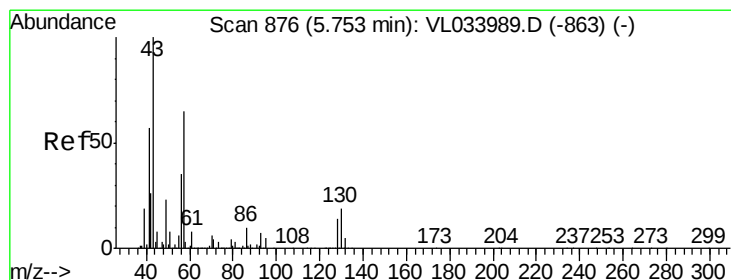
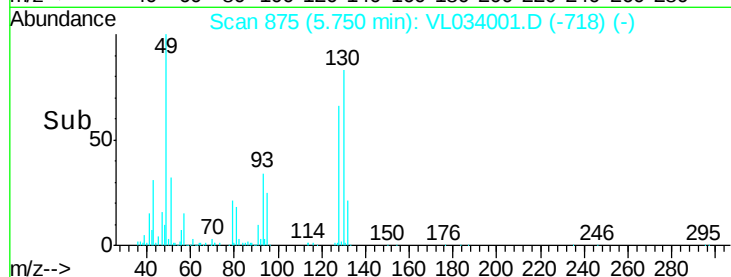
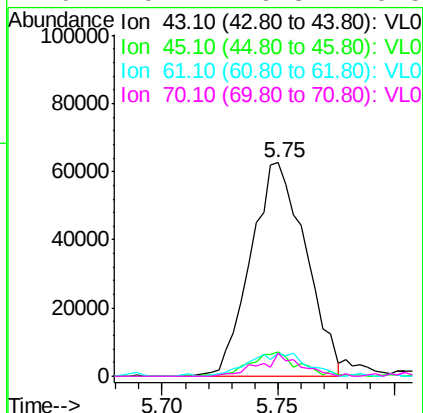
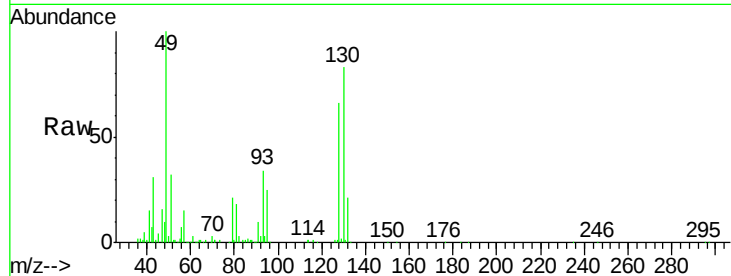
#25
Ethyl Acetate
Concen: 0.470 ppbv
RT: 5.75 min Scan# 875
Delta R.T. 0.01 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Tot Ion	43	Resp	102978
Ion Ratio	Lower	Upper	
43	100		
45	10.3	8.1	12.1
61	12.0	8.1	12.1
70	9.4	6.3	9.5

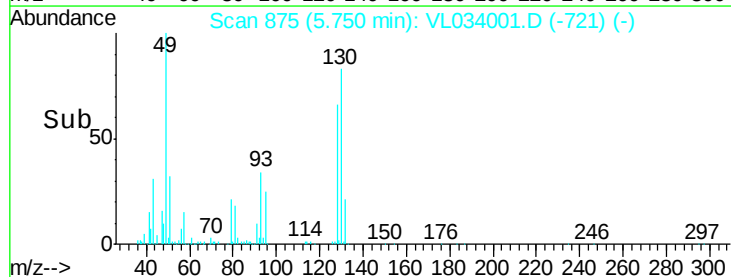
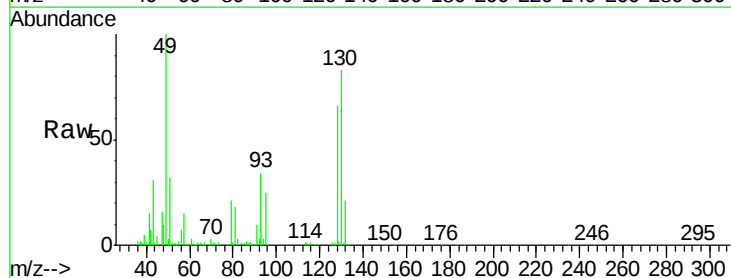
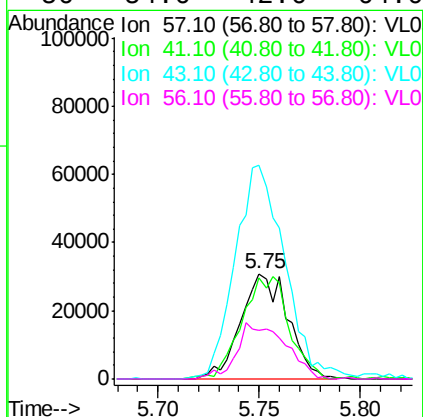
Manual Integrations
APPROVED

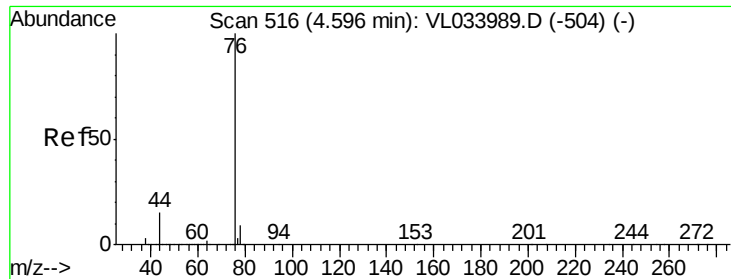
MMDadoda
7/3/2019 11:03:39 PM



#26
Hexane
Concen: 0.499 ppbv m
RT: 5.75 min Scan# 875
Delta R.T. -0.00 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Tgt Ion	57	Resp	50119
Ion Ratio	Lower	Upper	
57	100		
41	0.0	70.6	105.8#
43	216.3	177.6	266.4
56	54.6	42.6	64.0





#27

Carbon Disulfide

Concen: 0.475 ppbv

RT: 4.60 min Scan# 517

Delta R.T. 0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Instrument :

MSVOA_L

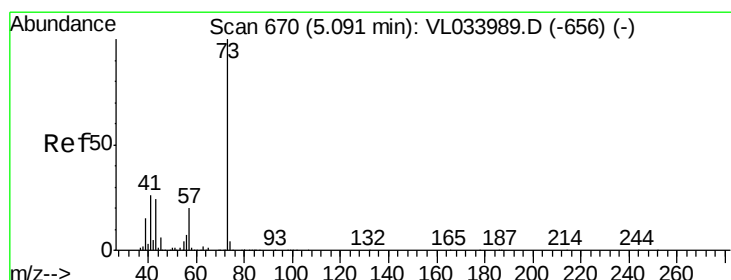
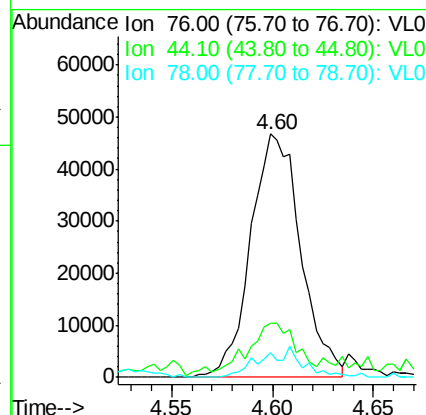
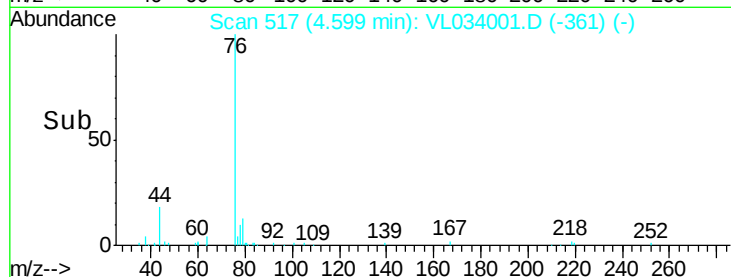
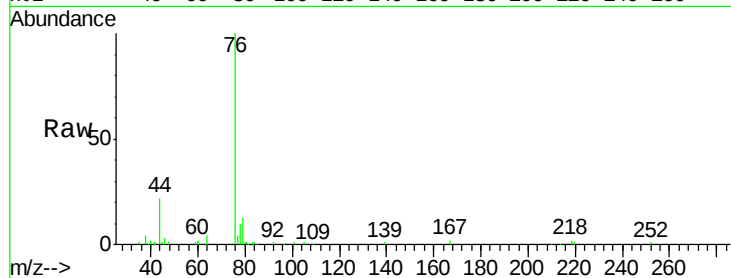
ClientSampleId :

LOQ-AIR-02-QT3-2019

Tot Ion:	76	Resp:	80996
Ion Ratio	Lower	Upper	
76	100		
44	26.4	12.6	18.8#
78	10.6	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
7/3/2019 11:03:39 PM



#28

Methyl tert-Butyl Ether

Concen: 0.418 ppbv

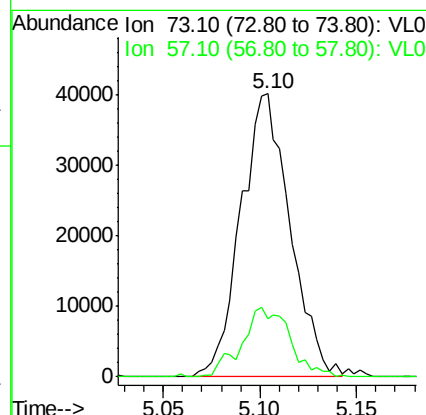
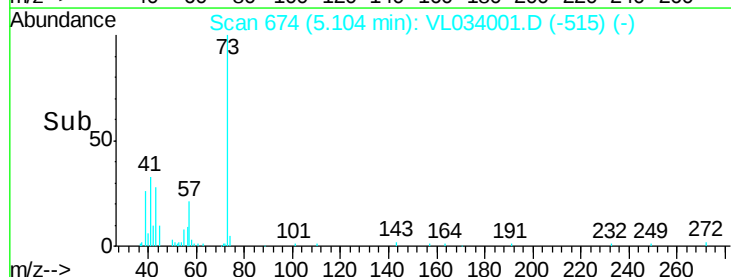
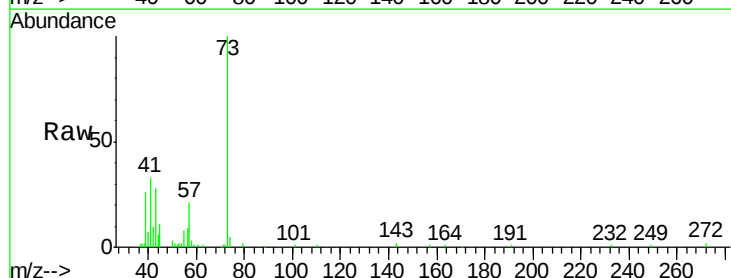
RT: 5.10 min Scan# 674

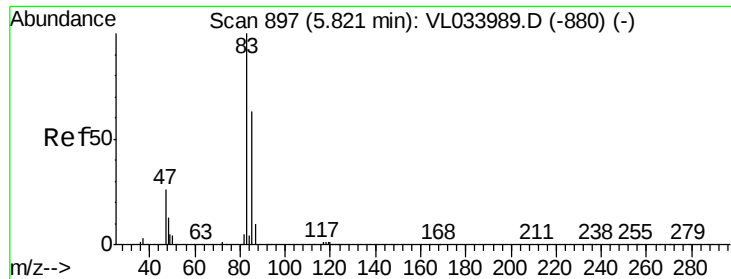
Delta R.T. 0.01 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Tgt Ion:	73	Resp:	71092
Ion Ratio	Lower	Upper	
73	100		
57	24.1	16.9	25.3





#29

Chloroform

Concen: 0.544 ppbv

RT: 5.82 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2019

Tot Ion: 83 Resp: 102632

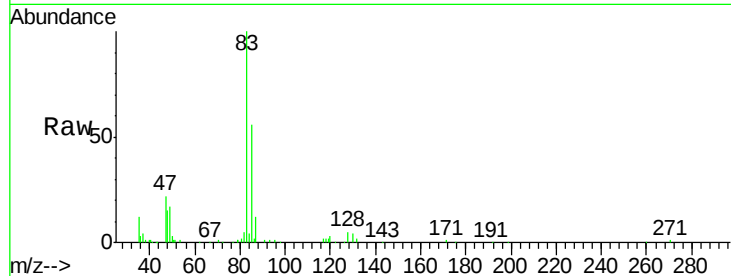
Ion Ratio Lower Upper

83 100

85 55.9 50.6 75.8

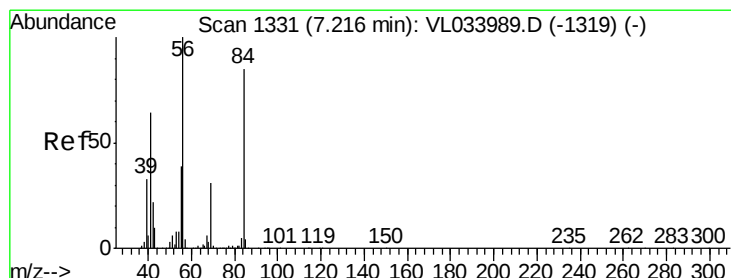
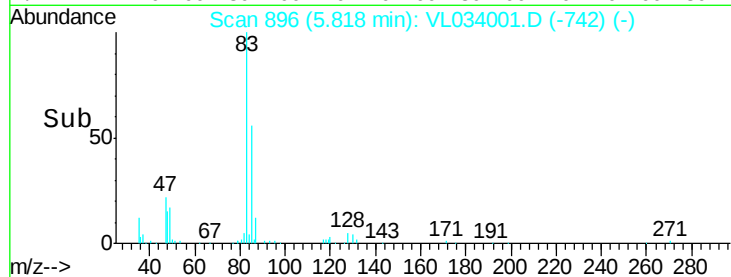
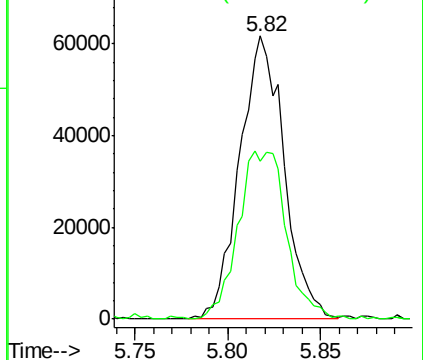
Manual Integrations
APPROVED

MMDadoda
7/3/2019 11:03:39 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.433 ppbv m

RT: 7.22 min Scan# 1331

Delta R.T. -0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

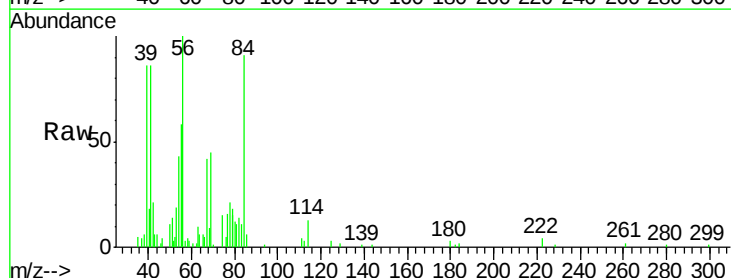
Tgt Ion: 84 Resp: 33526

Ion Ratio Lower Upper

84 100

56 99.5 103.7 155.5#

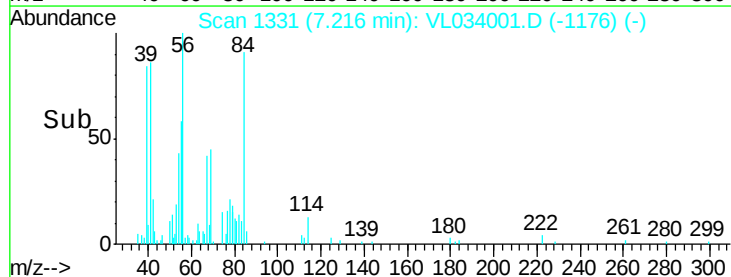
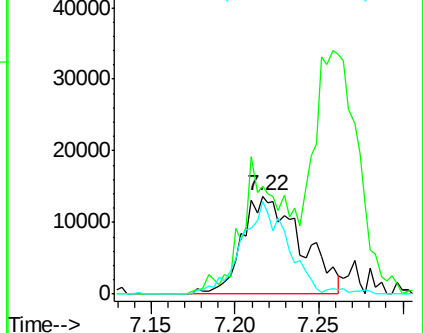
41 74.9 62.6 94.0

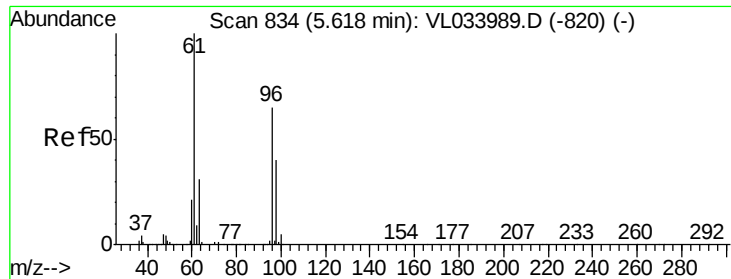


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

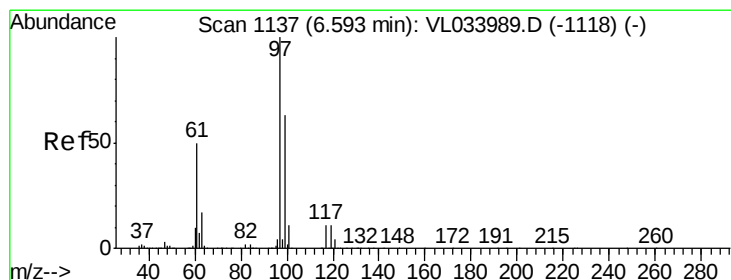
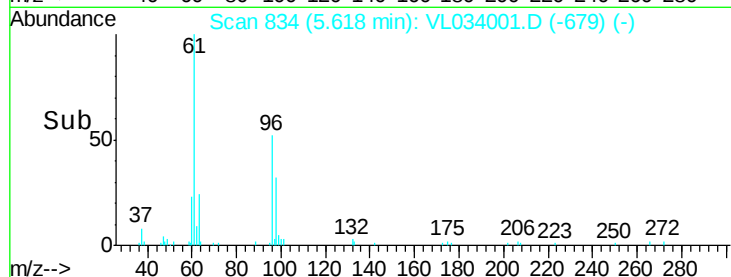
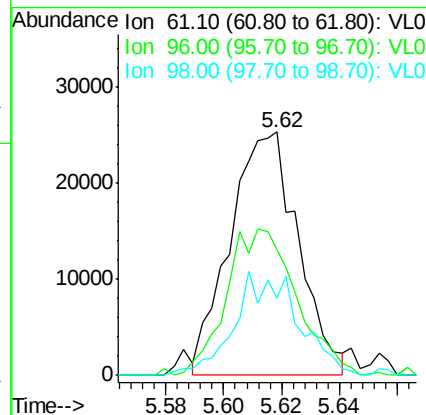
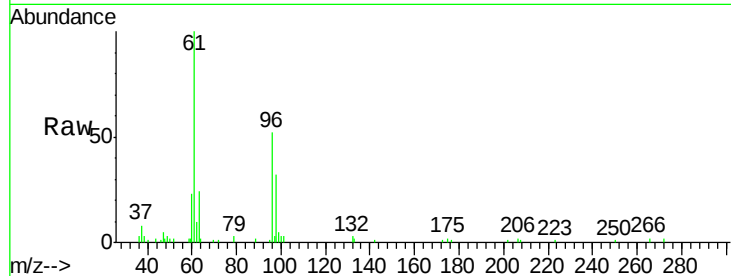
cis-1,2-Dichloroethene
Concen: 0.427 ppbv
RT: 5.62 min Scan# 834
Delta R.T. -0.00 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
61	100		
96	49.7	51.8	77.6#
98	30.7	32.1	48.1#

Manual Integrations
APPROVED

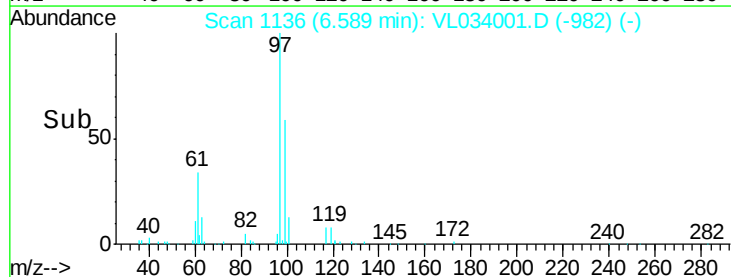
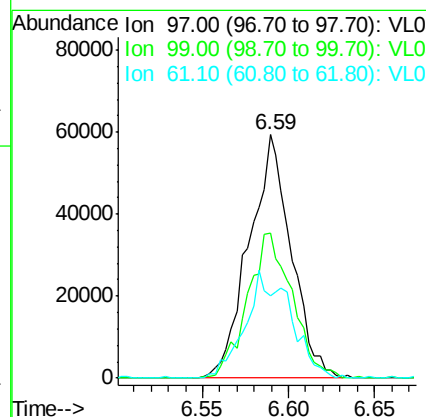
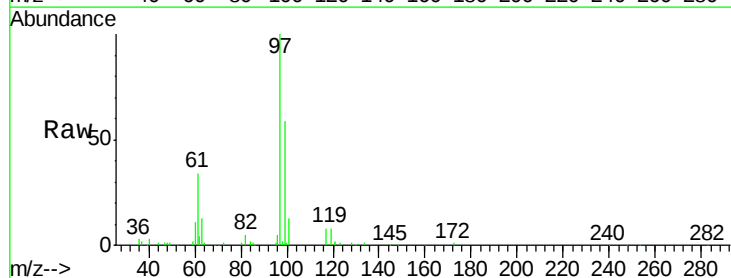
MMDadoda
7/3/2019 11:03:39 PM

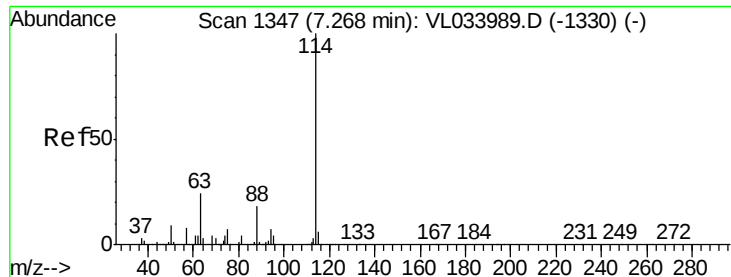


#32

1,1,1-Trichloroethane
Concen: 0.527 ppbv
RT: 6.59 min Scan# 1136
Delta R.T. -0.00 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.9	77.9
61	47.7	39.8	59.8





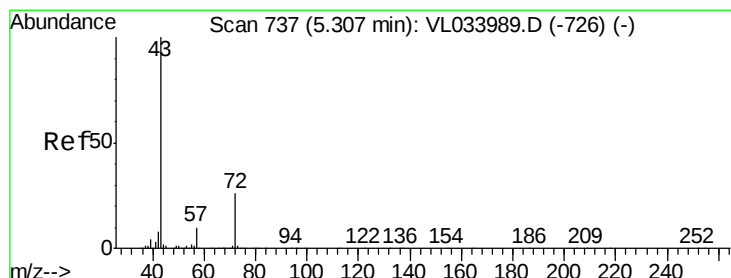
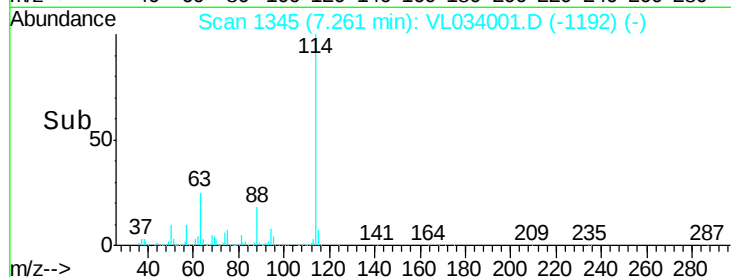
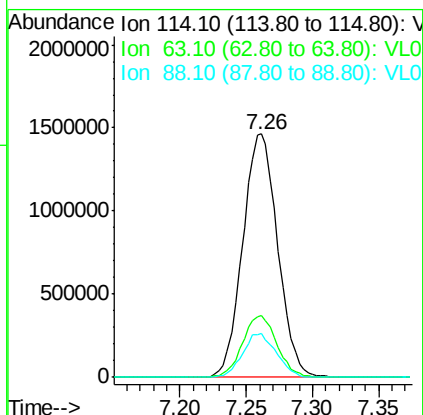
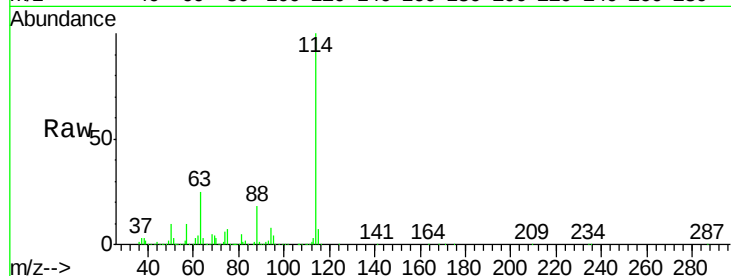
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.26 min Scan# 1345
 Delta R.T. -0.01 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.2	30.2
88	17.5	14.1	21.1

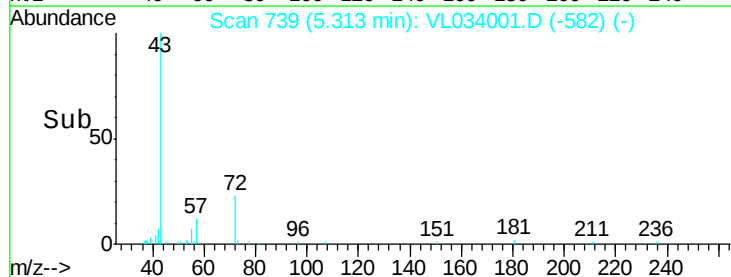
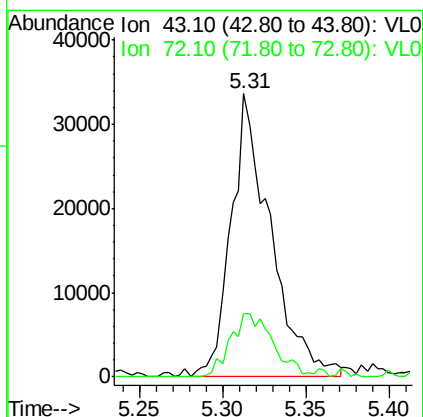
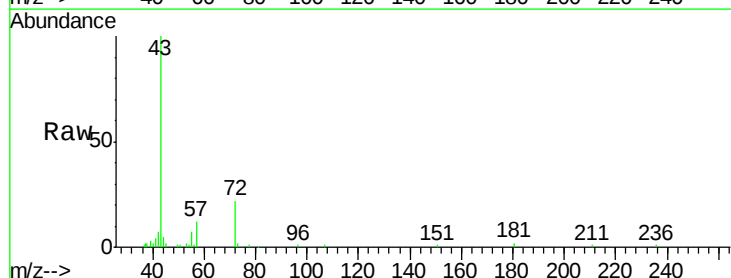
Manual Integrations
 APPROVED

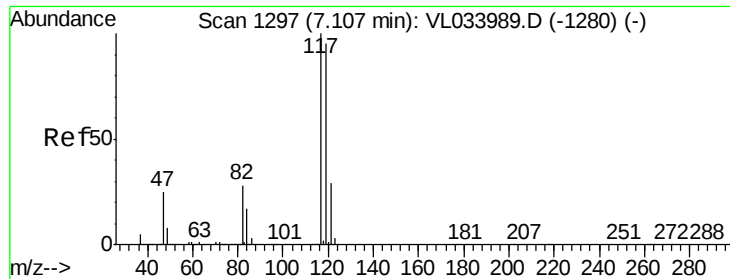
MMDadoda
 7/3/2019 11:03:39 PM



#34
 2-Butanone
 Concen: 0.389 ppbv m
 RT: 5.31 min Scan# 739
 Delta R.T. 0.01 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.6	19.9	29.9





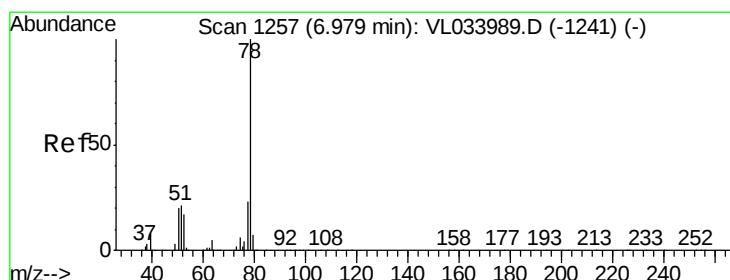
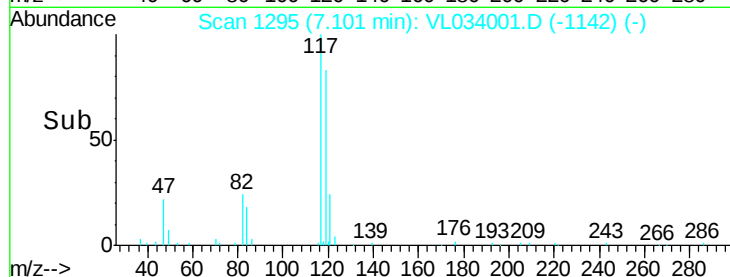
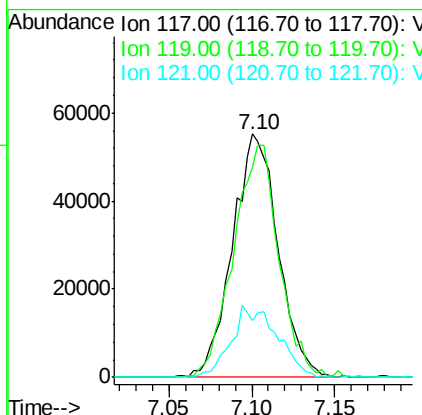
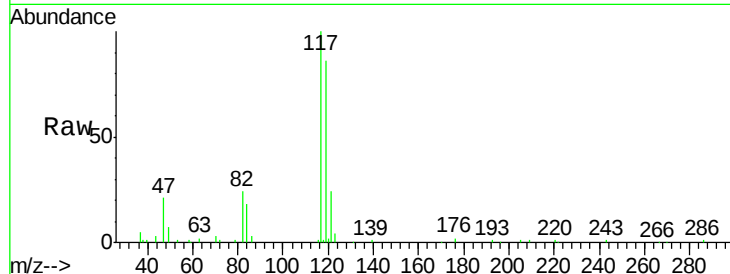
#35
Carbon Tetrachloride
Concen: 0.498 ppbv
RT: 7.10 min Scan# 1295
Delta R.T. -0.01 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	105570		
119	85.6		75.8	113.6
121	23.5		23.4	35.2

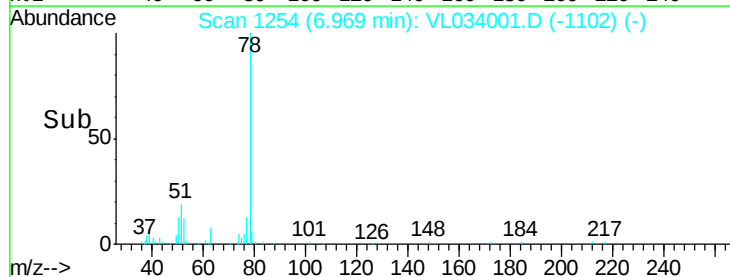
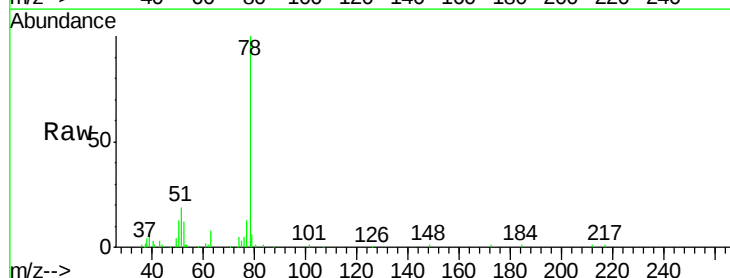
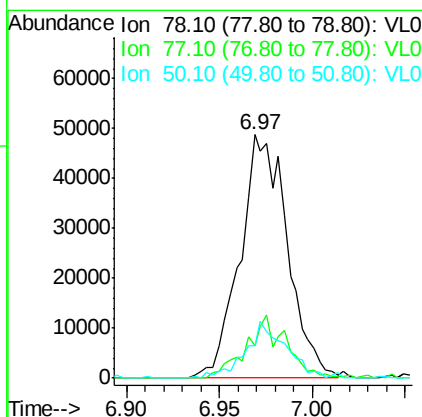
Manual Integrations
APPROVED

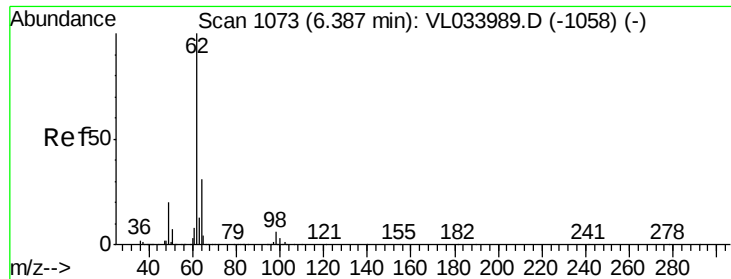
MMDadoda
7/3/2019 11:03:39 PM



#36
Benzene
Concen: 0.413 ppbv
RT: 6.97 min Scan# 1254
Delta R.T. -0.01 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	86491		
77	13.5		18.7	28.1#
50	13.1		16.2	24.2#





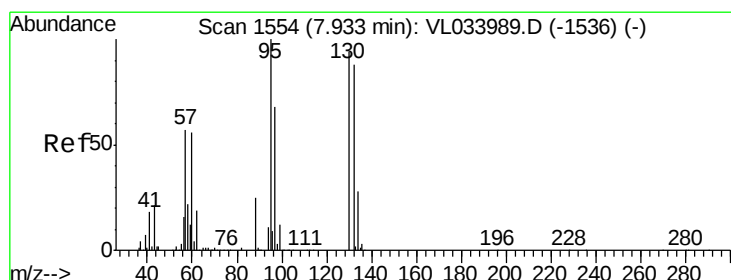
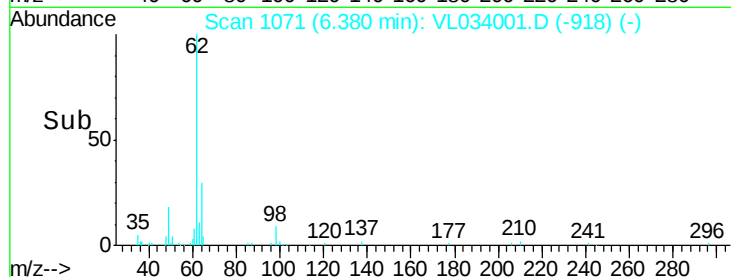
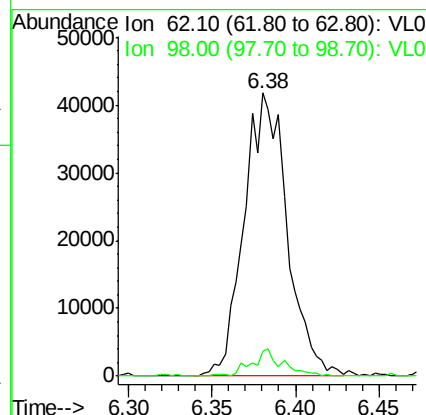
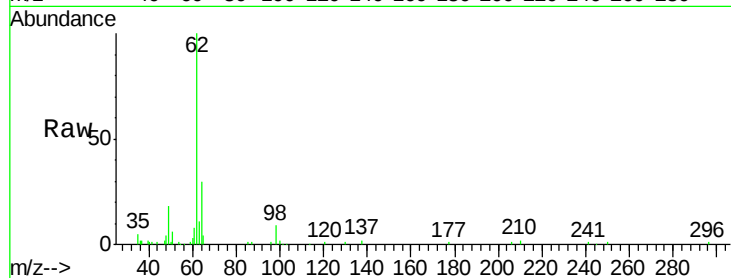
#37
 1,2-Dichloroethane
 Concen: 0.487 ppbv m
 RT: 6.38 min Scan# 1071
 Delta R.T. -0.01 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.8	4.4	6.6#

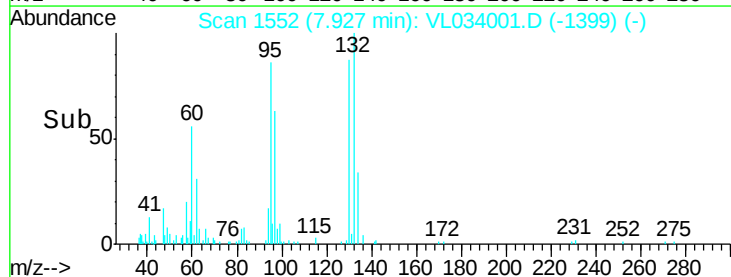
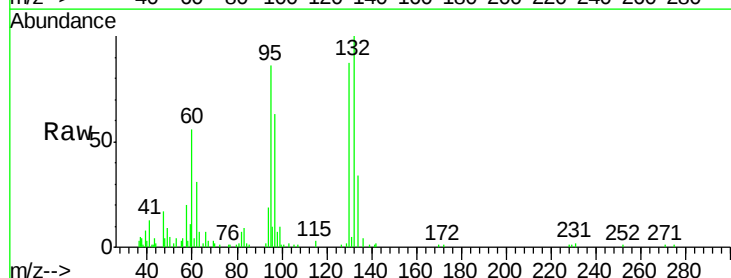
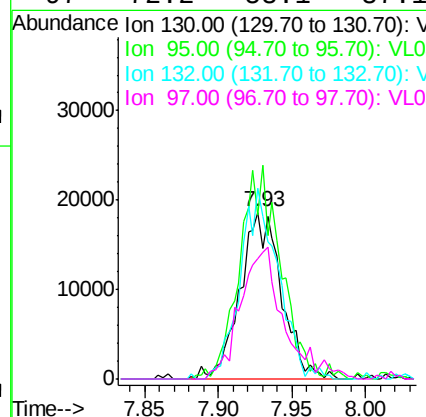
Manual Integrations
 APPROVED

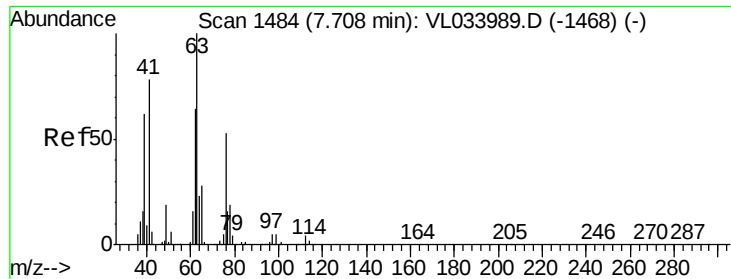
MMDadoda
 7/3/2019 11:03:39 PM



#38
 Trichloroethene
 Concen: 0.391 ppbv m
 RT: 7.93 min Scan# 1552
 Delta R.T. -0.01 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.7	85.5	128.3
132	114.4	75.1	112.7#
97	72.2	58.1	87.1





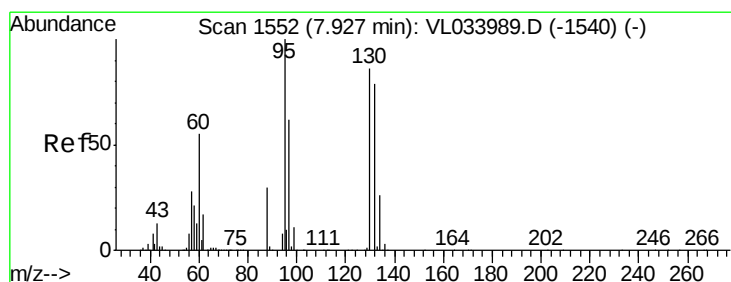
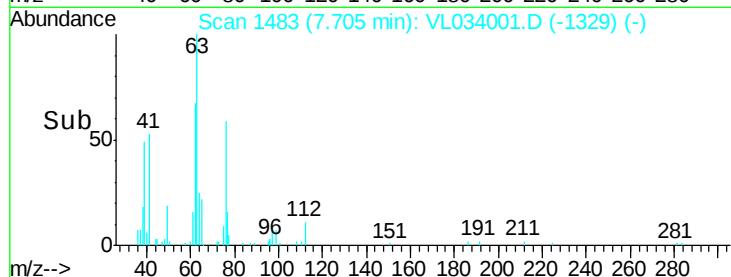
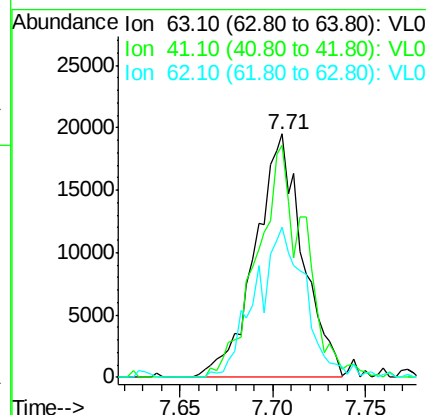
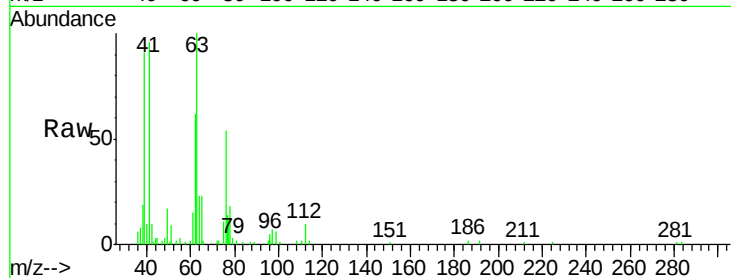
#39
 1,2-Dichloropropane
 Concen: 0.448 ppbv
 RT: 7.71 min Scan# 1483
 Delta R.T. -0.00 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
63	100		
41	95.6	62.3	93.5#
62	61.8	51.4	77.2

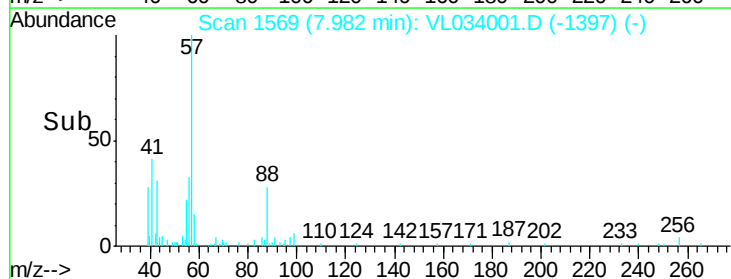
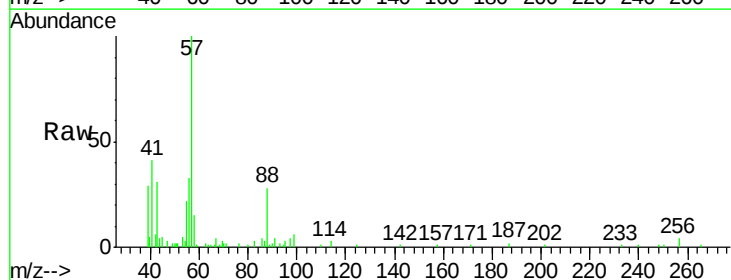
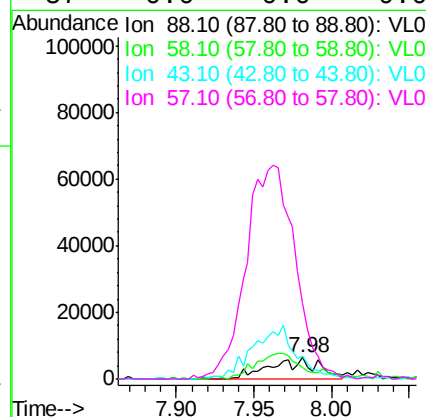
Manual Integrations
 APPROVED

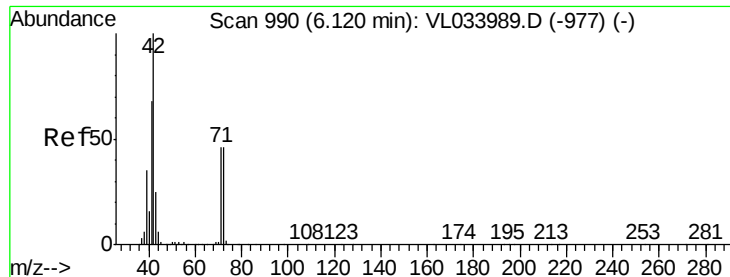
MMDadoda
 7/3/2019 11:03:39 PM



#40
 1,4-Dioxane
 Concen: 0.374 ppbv m
 RT: 7.98 min Scan# 1569
 Delta R.T. 0.05 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	99.1	148.7#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 0.314 ppbv m

RT: 6.15 min Scan# 998

Delta R.T. 0.03 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Instrument :

MSVOA_L

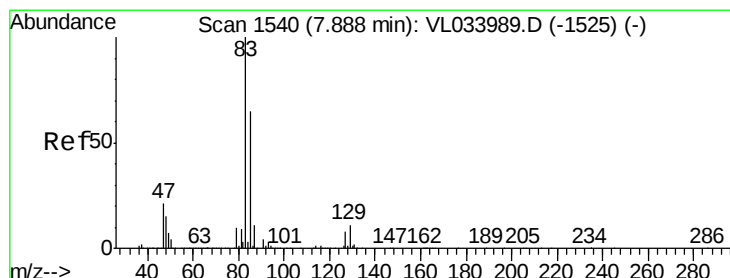
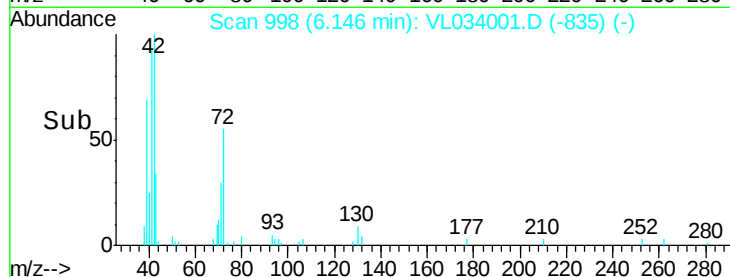
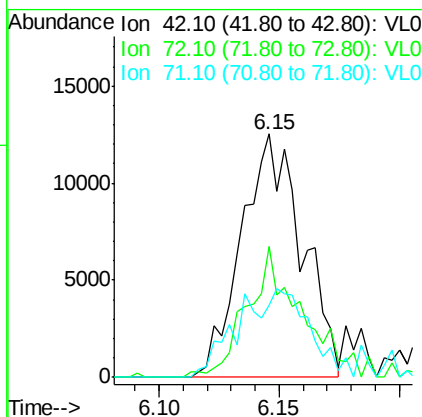
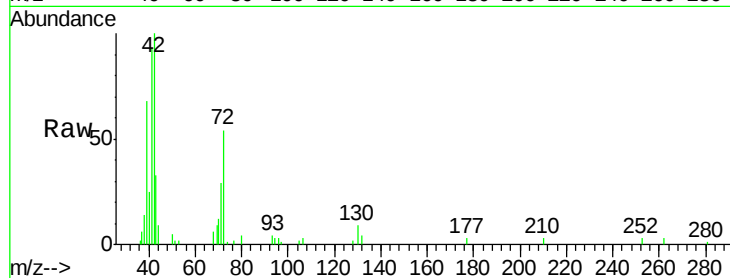
ClientSampleId :

LOQ-AIR-02-QT3-2019

Tot Ion:	42	Resp:	21832
Ion Ratio		Lower	Upper
42	100		
72	48.5	37.3	55.9
71	0.0	36.2	54.2#

Manual Integrations
APPROVED

MMDadoda
7/3/2019 11:03:39 PM



#42

Bromodichloromethane

Concen: 0.468 ppbv

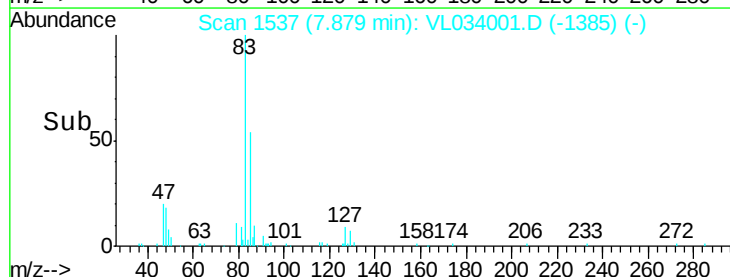
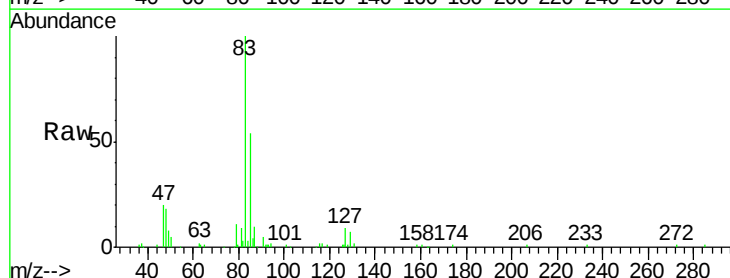
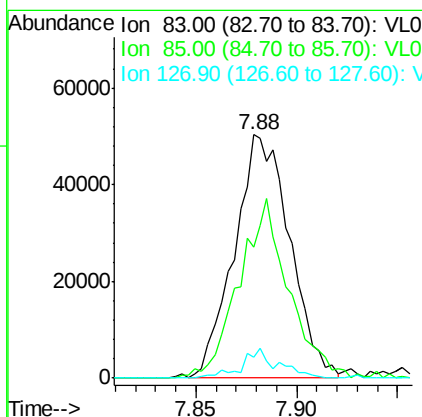
RT: 7.88 min Scan# 1537

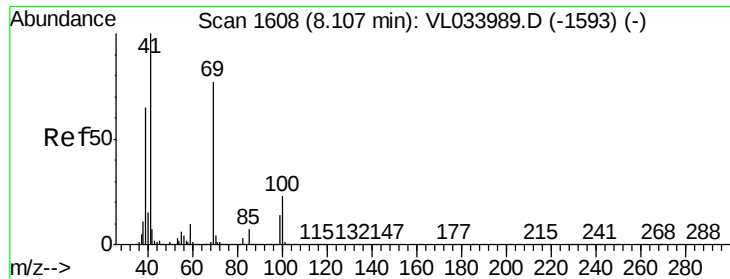
Delta R.T. -0.01 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Tgt Ion:	83	Resp:	96799
Ion Ratio		Lower	Upper
83	100		
85	52.7	51.8	77.8
127	8.6	6.5	9.7





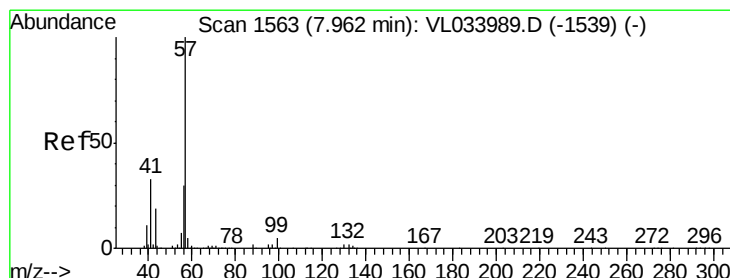
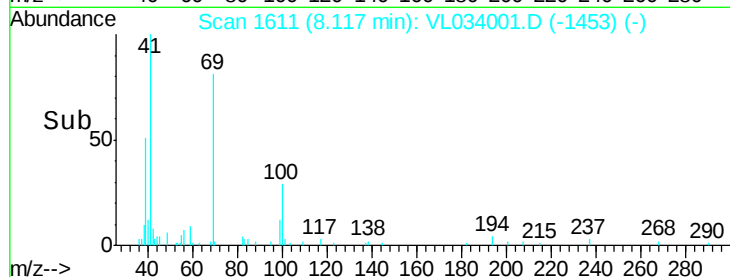
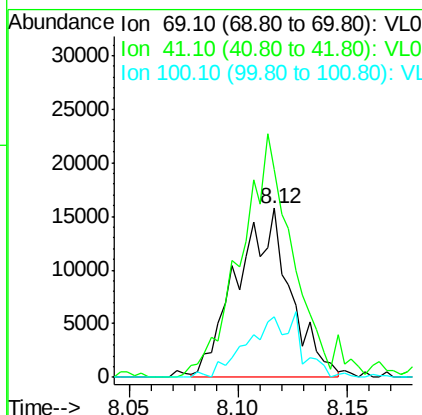
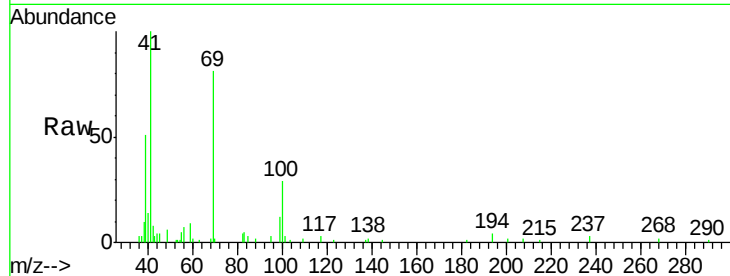
#43
Methvl Methacrilate
Concen: 0.338 ppbv m
RT: 8.12 min Scan# 1611
Delta R.T. 0.01 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	0.0	109.1	163.7#	
100	0.0	25.3	37.9#	

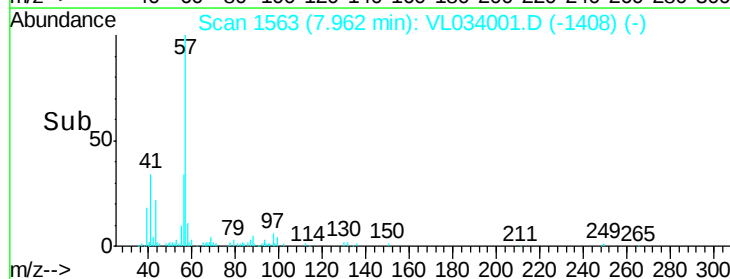
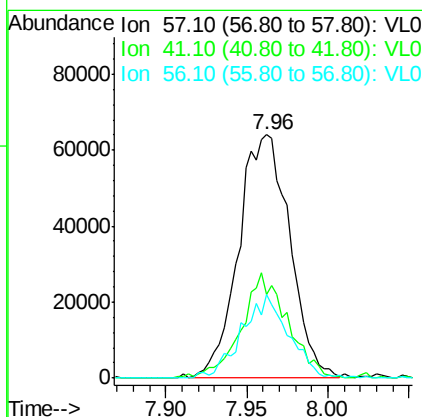
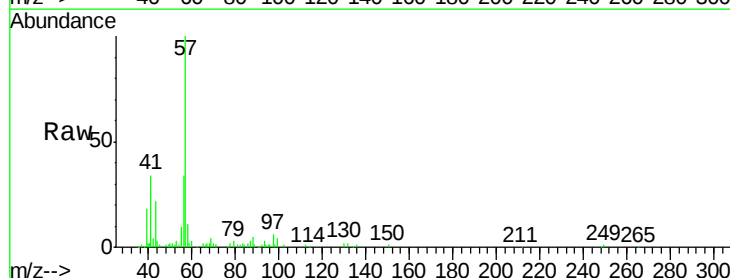
Manual Integrations
APPROVED

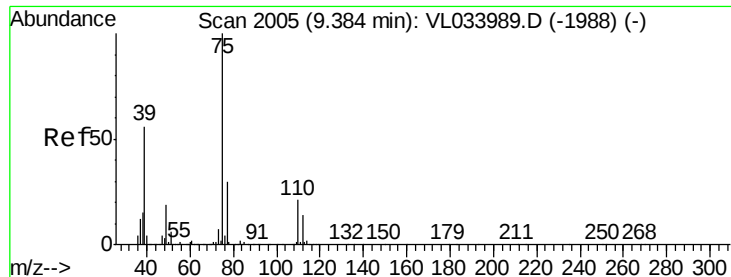
MMDadoda
7/3/2019 11:03:39 PM



#44
2,2,4-Trimethylpentane
Concen: 0.389 ppbv m
RT: 7.96 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	0.0	26.1	39.1#	
56	0.0	24.4	36.6#	





#45

t-1,3-Dichloropropene

Concen: 0.327 ppbv m

RT: 9.38 min Scan# 2004

Delta R.T. -0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Tot Ion: 75 Resp: 33911

Ion Ratio Lower Upper

75 100

77 30.1 24.3 36.5

Instrument :

MSVOA_L

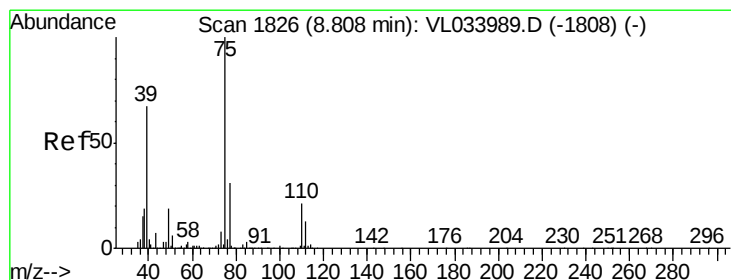
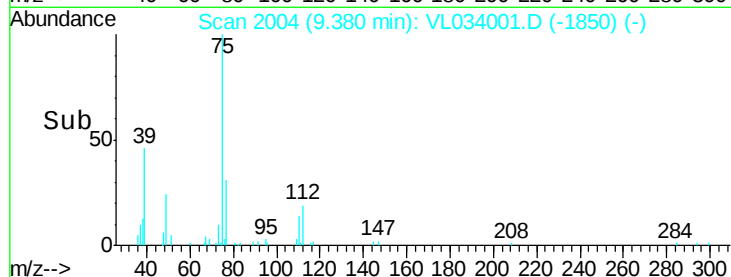
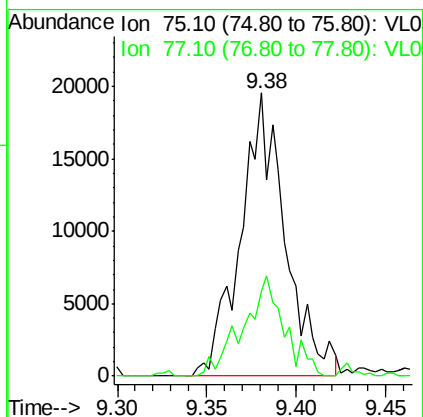
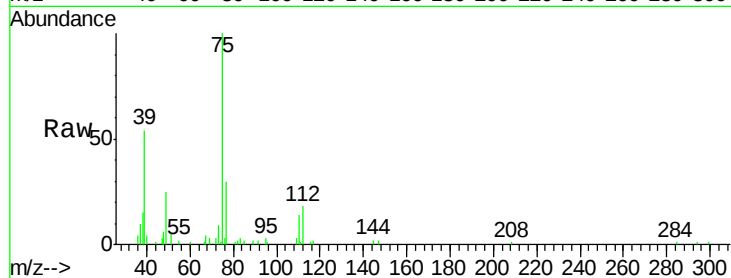
ClientSampleId :

LOQ-AIR-02-QT3-2019

Manual Integrations
APPROVED

MMDadoda

7/3/2019 11:03:39 PM



#46

cis-1,3-Dichloropropene

Concen: 0.325 ppbv

RT: 8.80 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

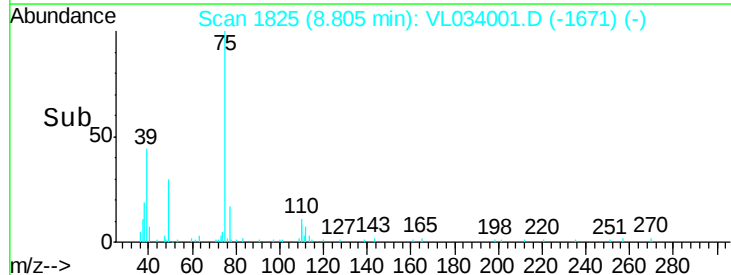
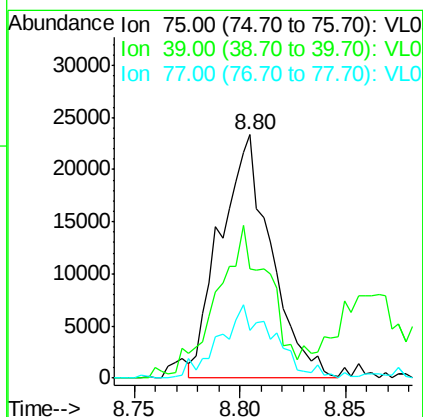
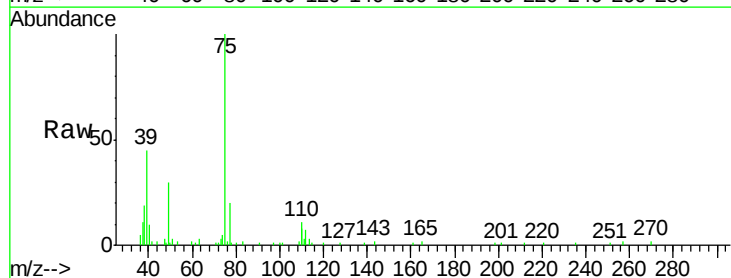
Tgt Ion: 75 Resp: 39101

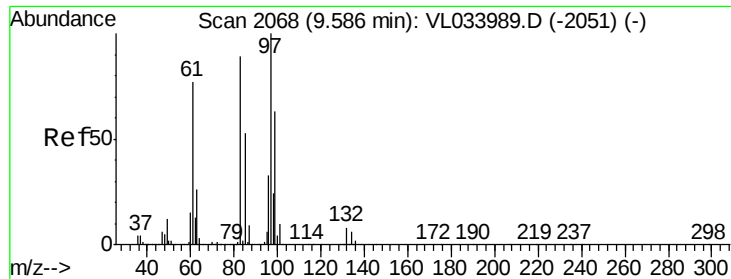
Ion Ratio Lower Upper

75 100

39 35.1 53.8 80.6#

77 20.0 24.5 36.7#





#47

1,1,2-Trichloroethane

Concen: 0.426 ppbv

RT: 9.58 min Scan# 2067

Delta R.T. -0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Instrument :

MSVOA_L

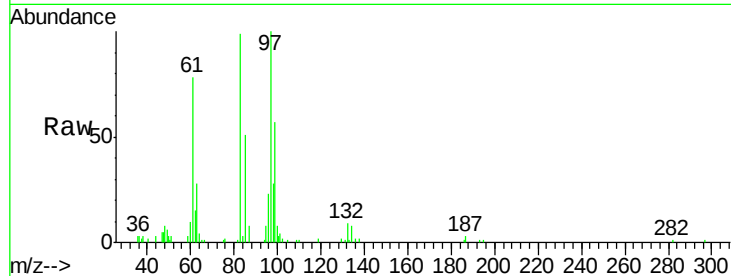
ClientSampleId :

LOQ-AIR-02-QT3-2019

Tot Ion:	97	Resp:	41737
Ion	Ratio	Lower	Upper
97	100		
83	92.7	71.1	106.7
85	45.7	42.6	64.0
99	56.1	50.3	75.5

Manual Integrations
APPROVED

MMDadoda
7/3/2019 11:03:39 PM

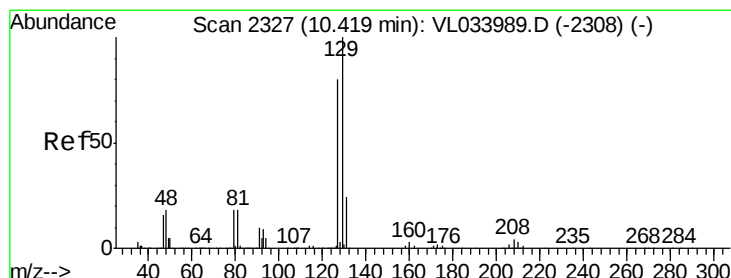
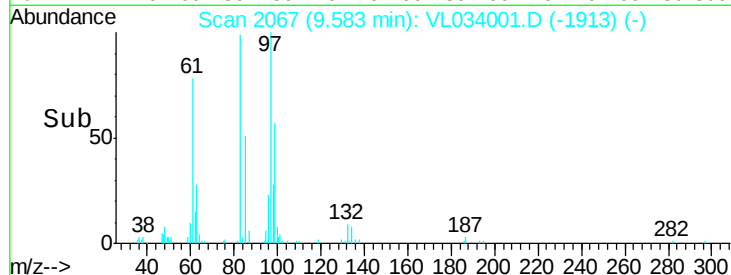
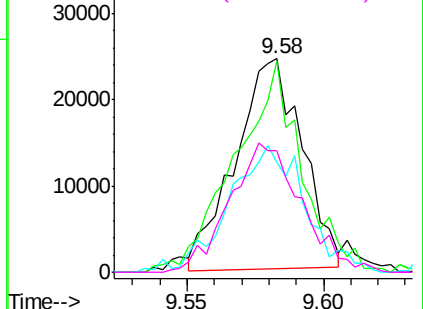


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.414 ppbv

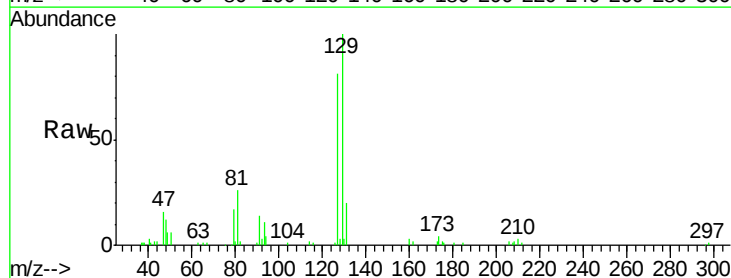
RT: 10.41 min Scan# 2325

Delta R.T. -0.01 min

Lab File: VL034001.D

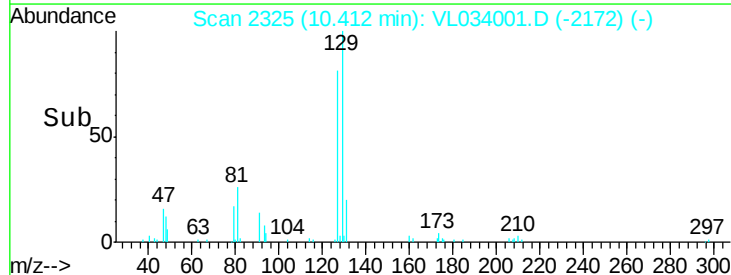
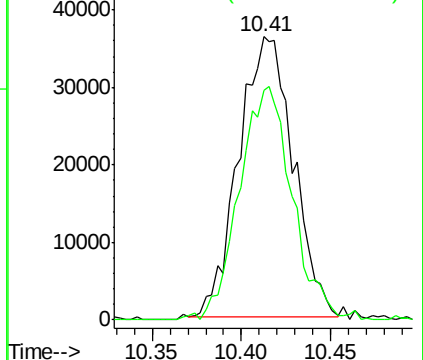
Acq: 3 Jul 2019 1:56

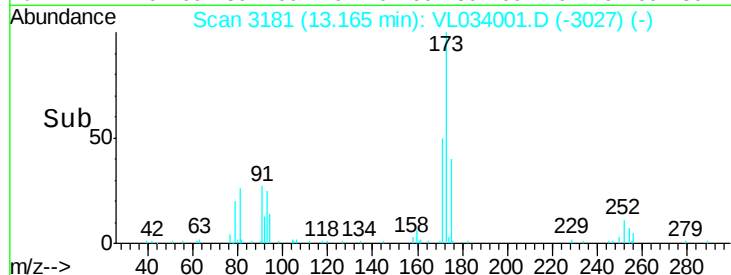
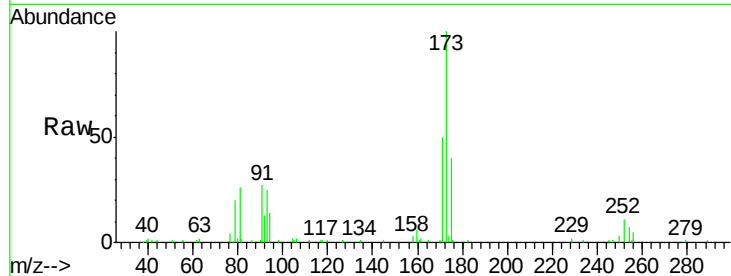
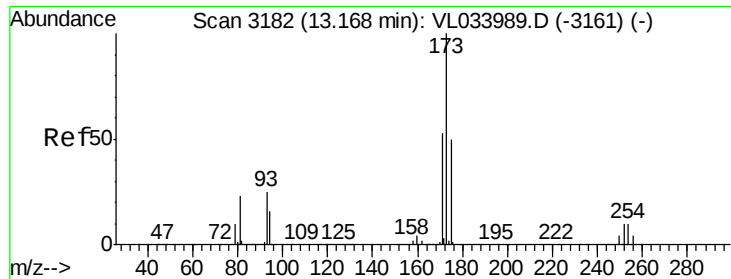
Tgt Ion:	129	Resp:	77396
Ion	Ratio	Lower	Upper
129	100		
127	80.7	39.1	117.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.451 ppbv

RT: 13.16 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Tot Ion:	173	Resp:	71946
Ion Ratio	Lower	Upper	
173	100		
175	48.8	39.3	58.9
171	51.3	41.4	62.0

Instrument :

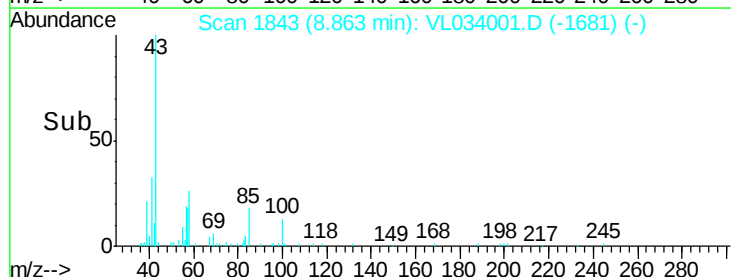
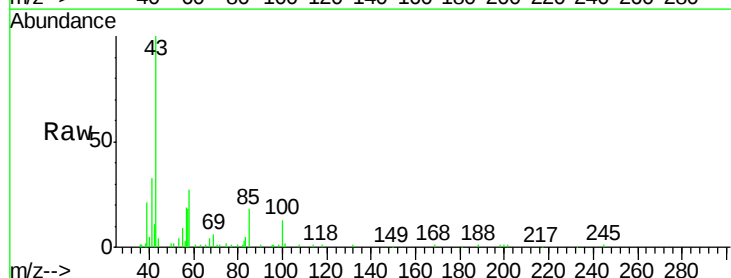
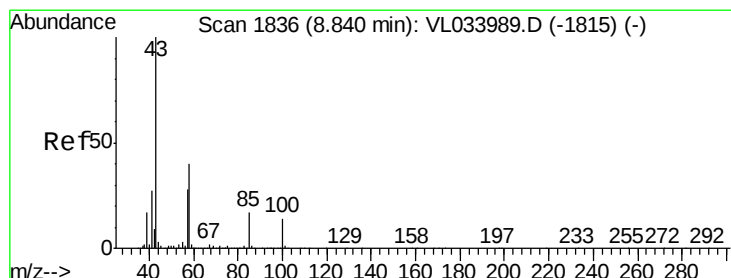
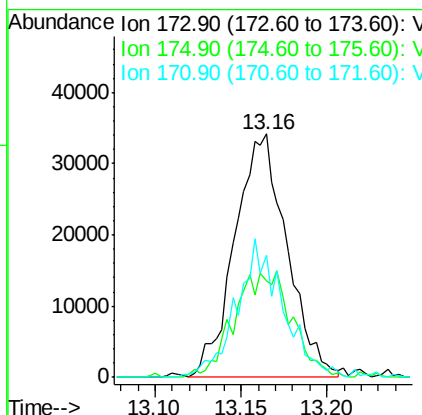
MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2019

Manual Integrations
APPROVED

MMDadoda
7/3/2019 11:03:39 PM



#50

4-Methyl-2-Pentanone

Concen: 0.366 ppbv m

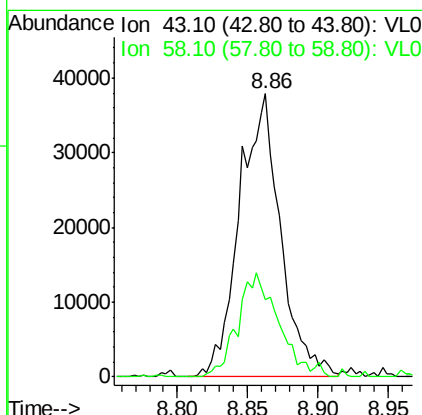
RT: 8.86 min Scan# 1843

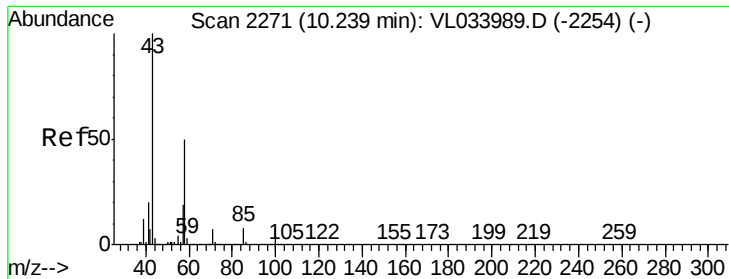
Delta R.T. 0.02 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Tgt Ion:	43	Resp:	76907
Ion Ratio	Lower	Upper	
43	100		
58	0.0	30.3	45.5#





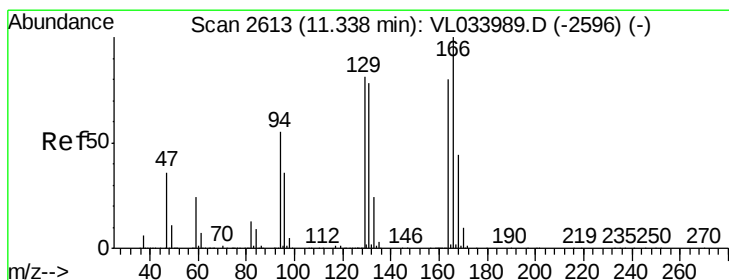
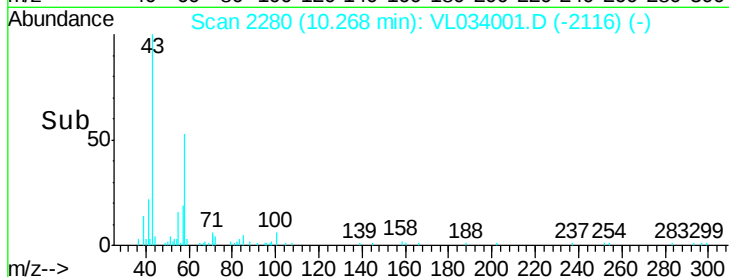
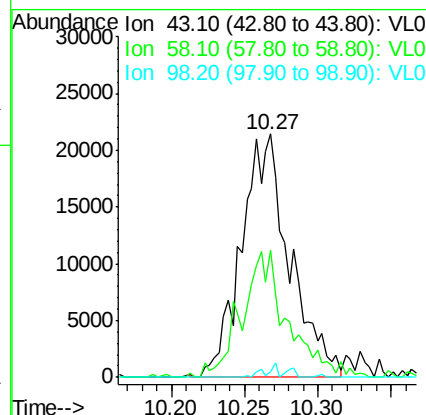
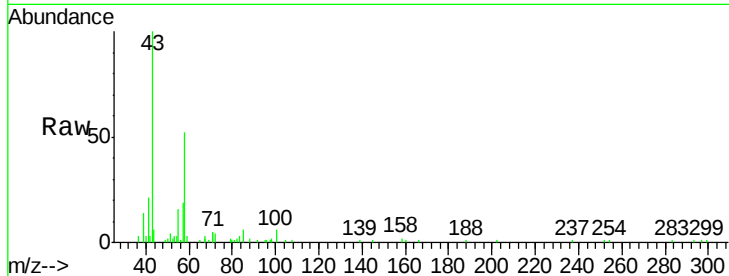
#51
2-Hexanone
Concen: 0.290 ppbv m
RT: 10.27 min Scan# 2280
Delta R.T. 0.03 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.0	61.4#
98	0.0	0.2	0.2#

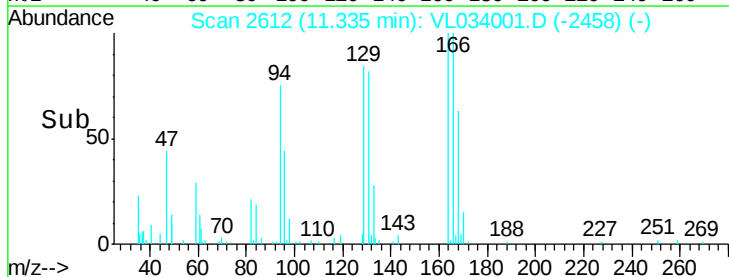
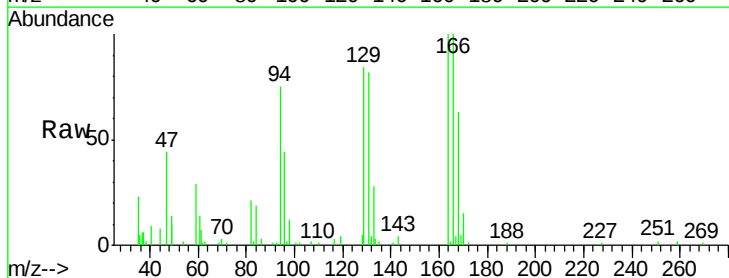
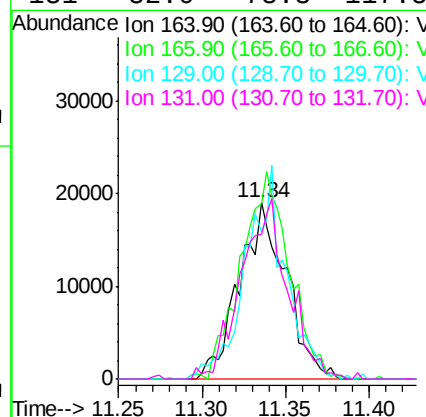
Manual Integrations
APPROVED

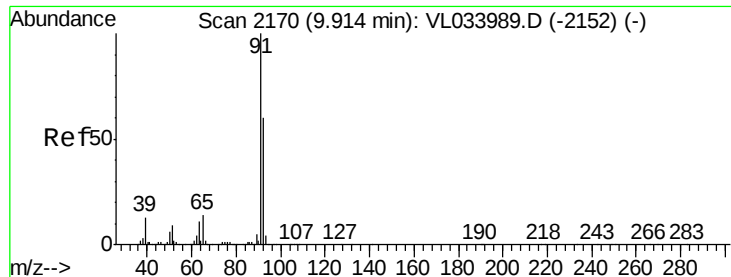
MMDadoda
7/3/2019 11:03:39 PM



#52
Tetrachloroethene
Concen: 0.411 ppbv m
RT: 11.34 min Scan# 2612
Delta R.T. -0.00 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Lower	Upper
164	100		
166	99.9	100.2	150.2#
129	83.5	81.0	121.6
131	82.0	78.3	117.5





#53

Toluene

Concen: 0.314 ppbv

RT: 9.91 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2019

Tot Ion: 91 Resp: 75245

Ion Ratio Lower Upper

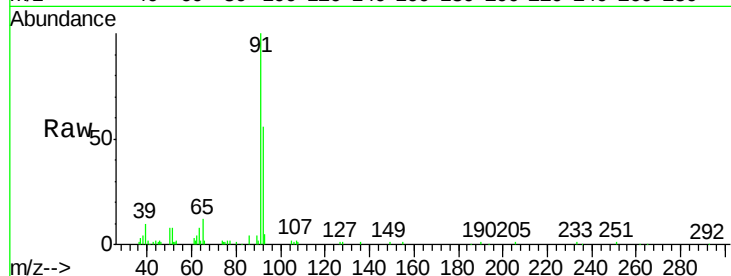
91 100

92 61.8 47.7 71.5

Manual Integrations
APPROVED

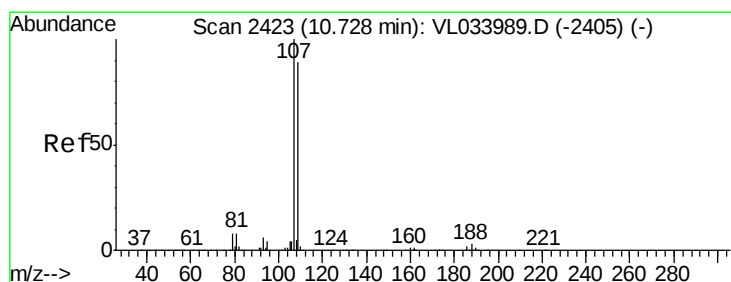
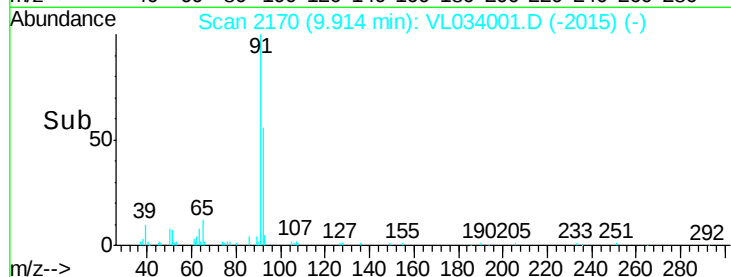
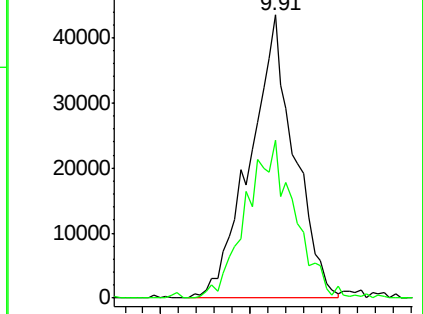
MMDadoda

7/3/2019 11:03:39 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.421 ppbv

RT: 10.72 min Scan# 2421

Delta R.T. -0.01 min

Lab File: VL034001.D

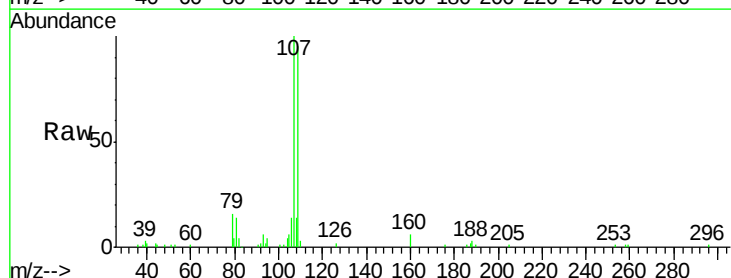
Acq: 3 Jul 2019 1:56

Tgt Ion: 107 Resp: 60825

Ion Ratio Lower Upper

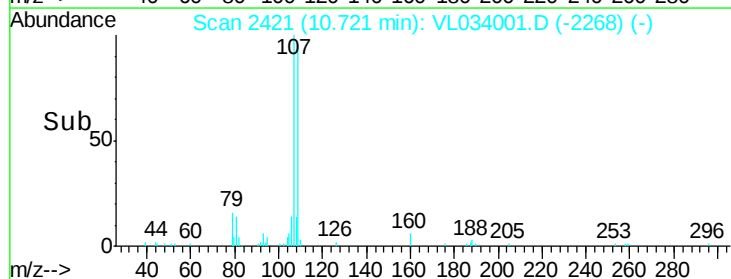
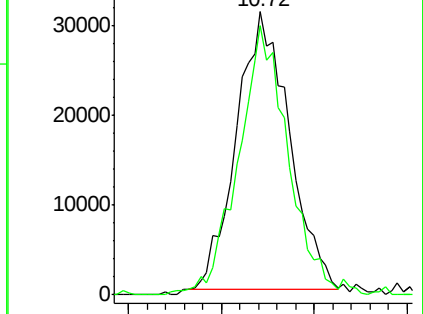
107 100

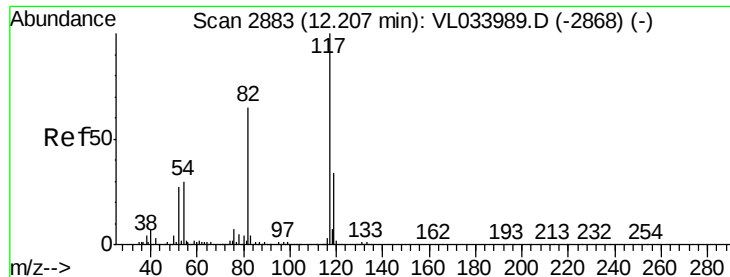
109 95.2 71.5 107.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





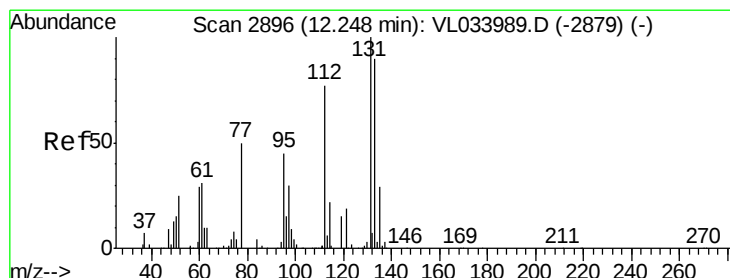
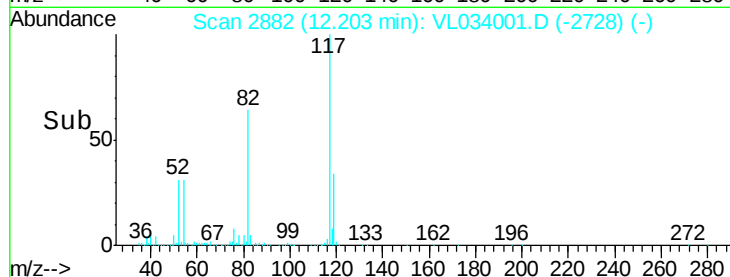
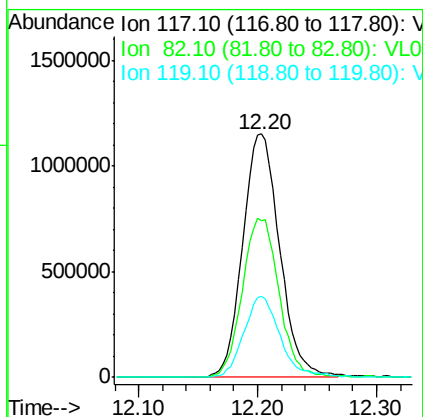
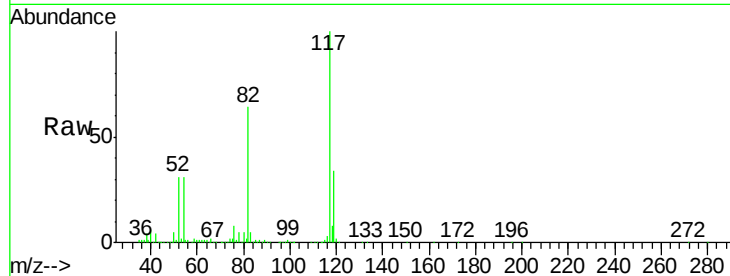
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.20 min Scan# 2882
Delta R.T. -0.00 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.6	50.8	76.2
119	33.3	24.0	36.0

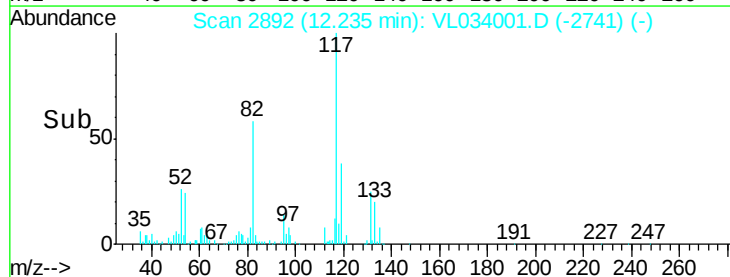
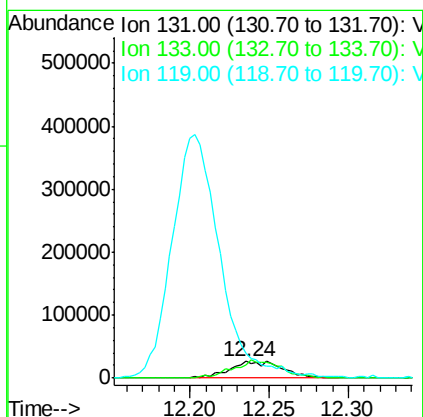
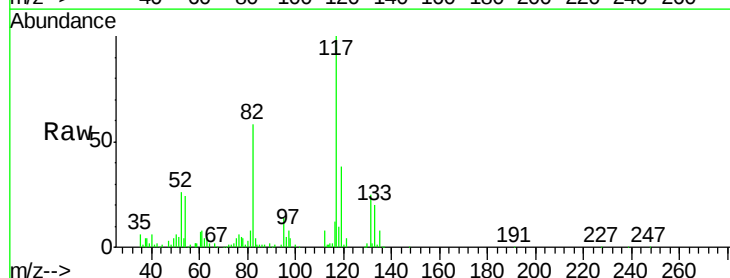
Manual Integrations
APPROVED

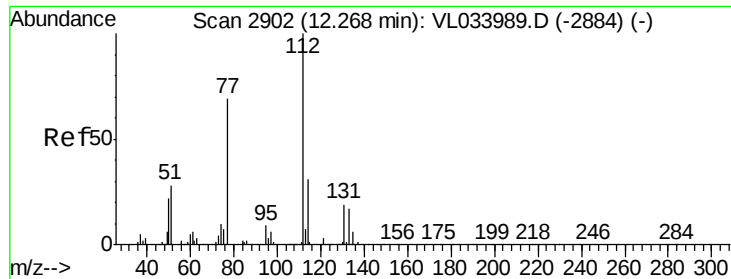
MMDadoda
7/3/2019 11:03:39 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.546 ppbv m
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Lower	Upper
131	100		
133	0.0	76.2	114.2#
119	0.0	43.1	64.7#





#57

Chlorobenzene

Concen: 0.547 ppbv m

RT: 12.26 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Instrument :

MSVOA_L

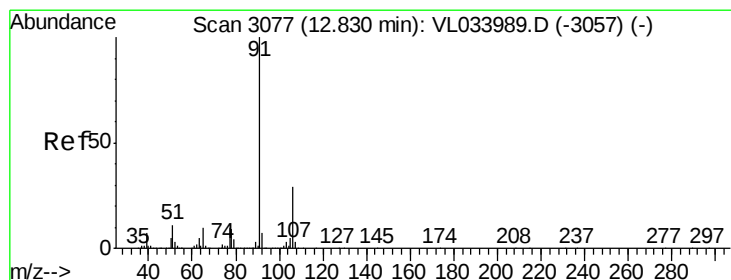
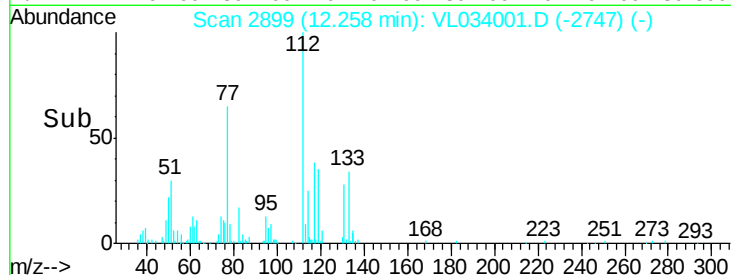
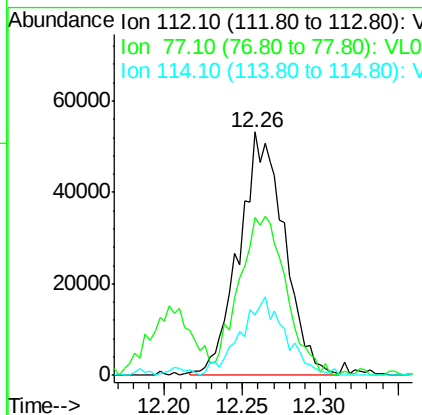
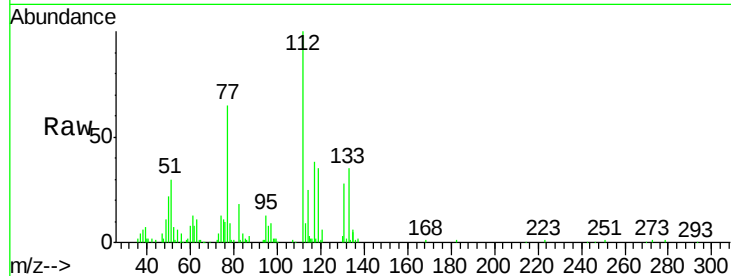
ClientSampleId :

LOQ-AIR-02-QT3-2019

Tot Ion:	112	Resp:	107665
Ion Ratio	Lower	Upper	
112	100		
77	64.7	55.9	83.9
114	24.9	27.6	33.8#

Manual Integrations
APPROVED

MMDadoda
7/3/2019 11:03:39 PM



#58

Ethyl Benzene

Concen: 0.358 ppbv

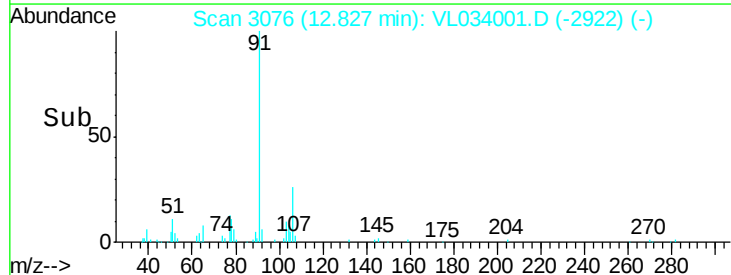
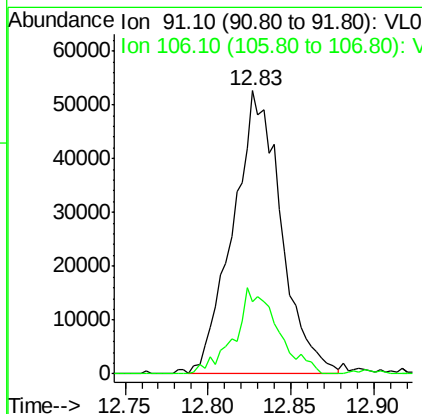
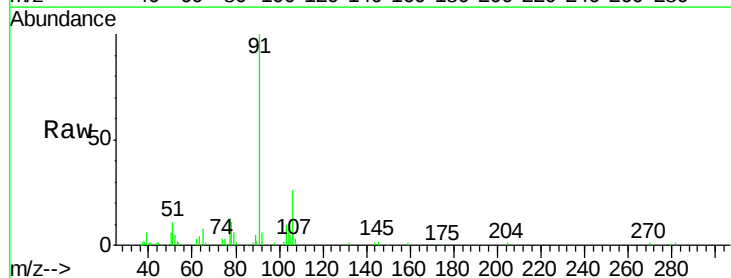
RT: 12.83 min Scan# 3076

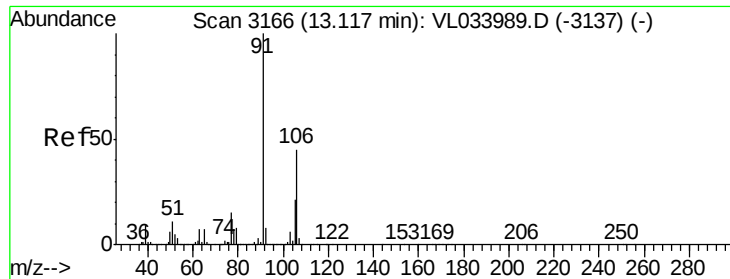
Delta R.T. -0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Tgt Ion:	91	Resp:	106375
Ion Ratio	Lower	Upper	
91	100		
106	25.6	23.3	34.9





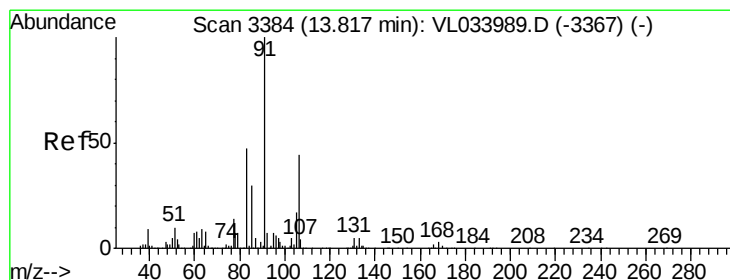
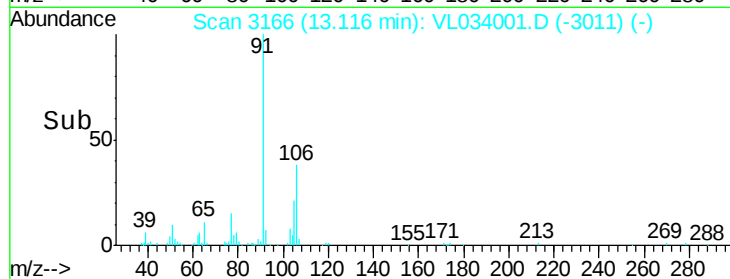
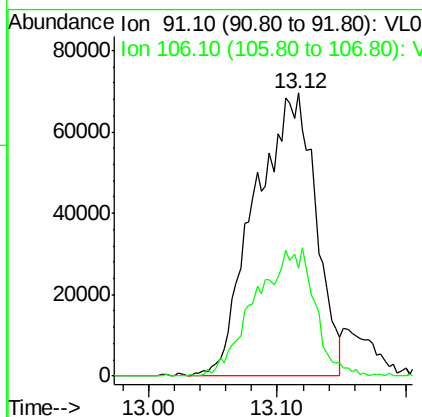
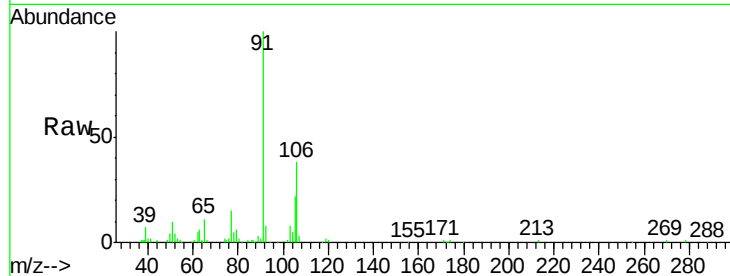
#59
m/p-Xylene
Concen: 0.845 ppbv m
RT: 13.12 min Scan# 3166
Delta R.T. -0.00 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Tot Ion: 91 Resp: 227605
Ion Ratio Lower Upper
91 100
106 44.1 35.7 53.5

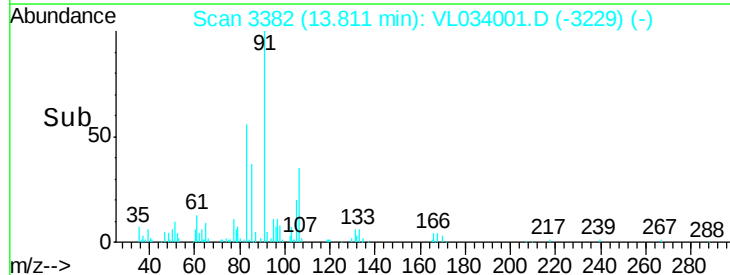
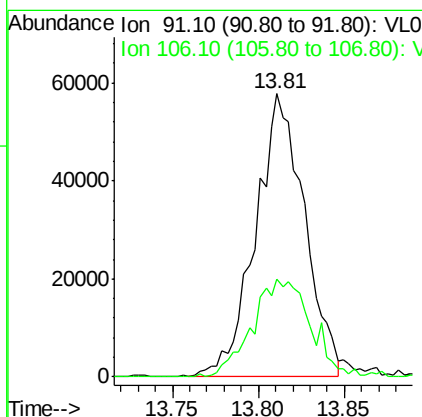
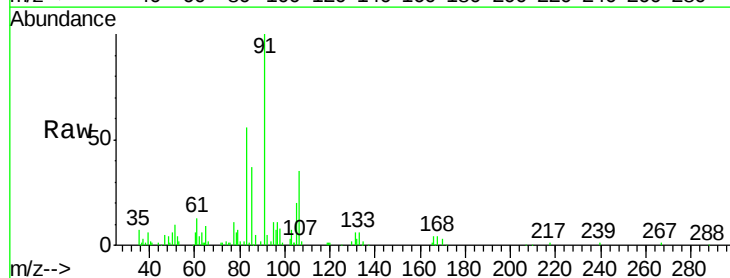
Manual Integrations
APPROVED

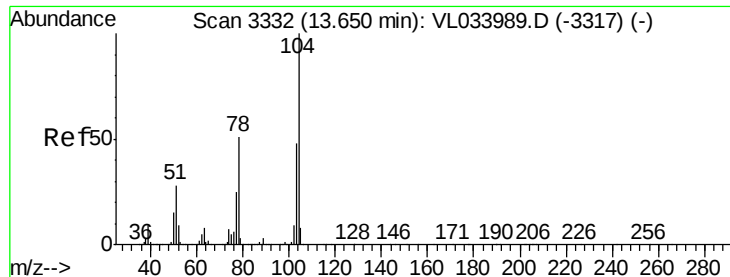
MMDadoda
7/3/2019 11:03:39 PM



#60
o-Xylene
Concen: 0.424 ppbv
RT: 13.81 min Scan# 3382
Delta R.T. -0.01 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Tgt Ion: 91 Resp: 114333
Ion Ratio Lower Upper
91 100
106 41.1 21.9 65.7





#61

Stvrene

Concen: 0.309 ppbv m

RT: 13.65 min Scan# 3332

Delta R.T. -0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Instrument :

MSVOA_L

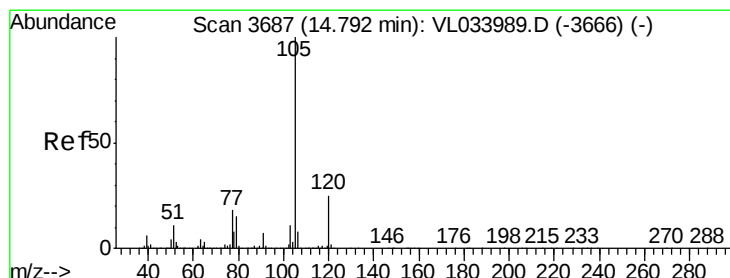
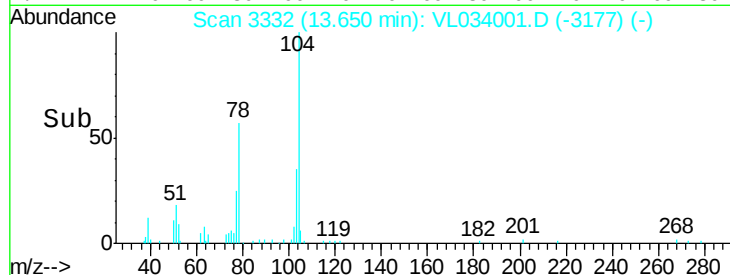
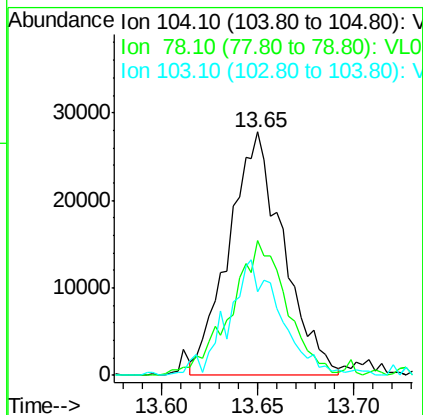
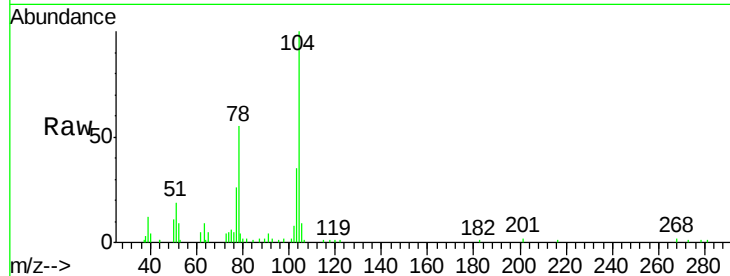
ClientSampleId :

LOQ-AIR-02-QT3-2019

Tot Ion:	104	Resp:	55063
Ion Ratio	Lower	Upper	
104	100		
78	57.4	43.9	65.9
103	47.2	38.1	57.1

Manual Integrations
APPROVED

MMDadoda
7/3/2019 11:03:39 PM



#62

Isopropylbenzene

Concen: 0.395 ppbv

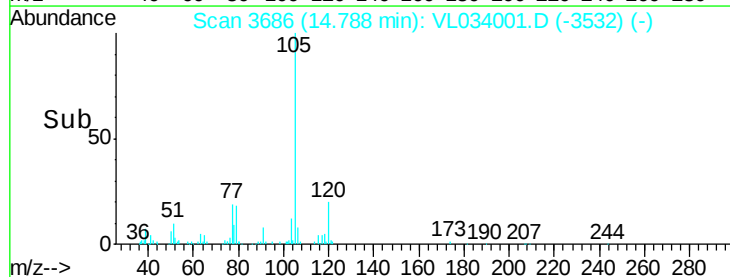
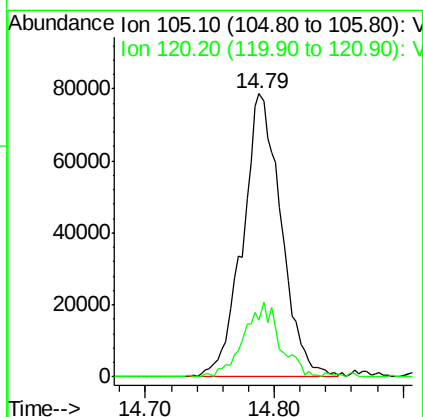
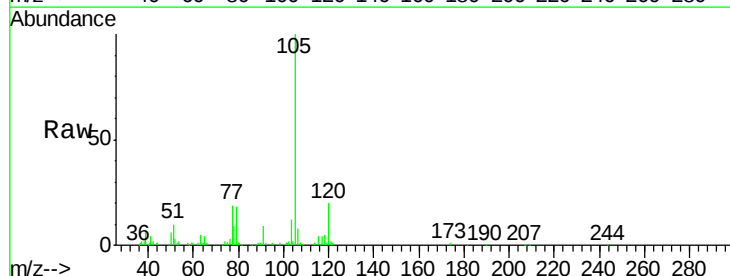
RT: 14.79 min Scan# 3686

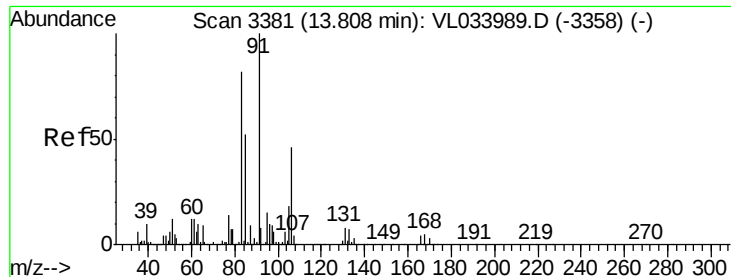
Delta R.T. -0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Tgt Ion:	105	Resp:	163533
Ion Ratio	Lower	Upper	
105	100		
120	25.1	20.4	30.6





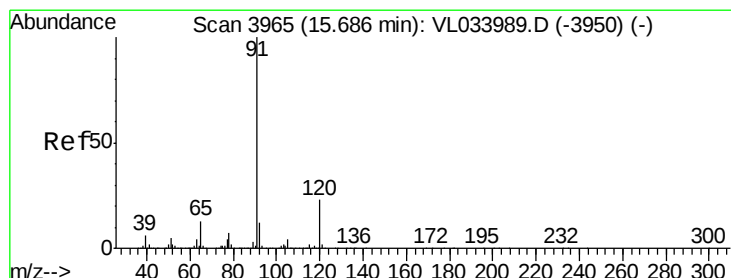
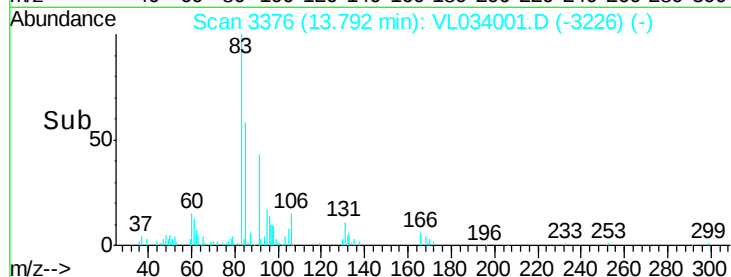
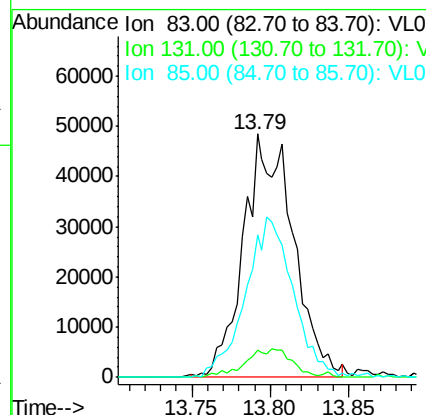
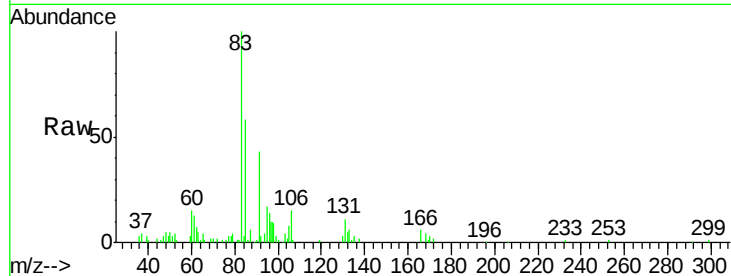
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.514 ppbv m
 RT: 13.79 min Scan# 3376
 Delta R.T. -0.02 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2019

Tot Ion	83	Resp	107184
Ion	Ratio	Lower	Upper
83	100		
131	11.4	5.0	14.9
85	63.7	32.8	98.3

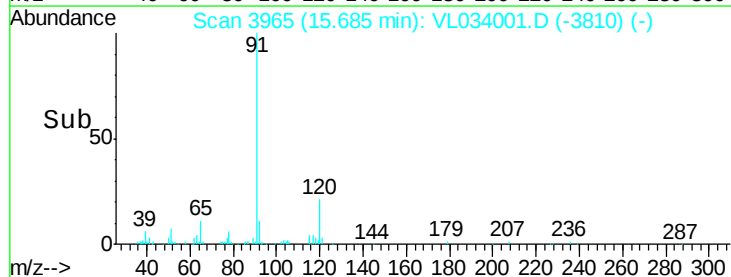
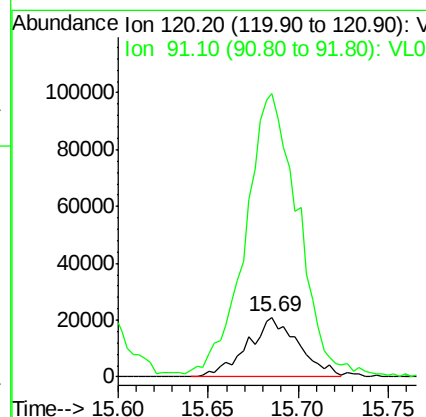
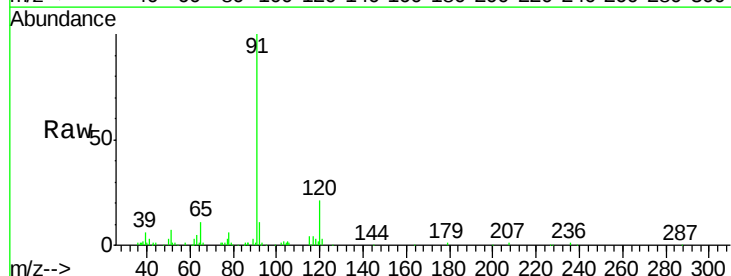
Manual Integrations
 APPROVED

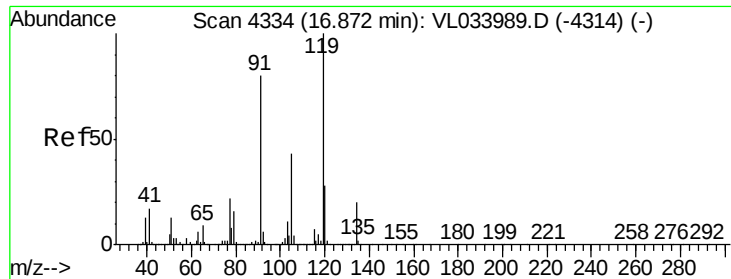
MMDadoda
 7/3/2019 11:03:39 PM



#64
 n-propylbenzene
 Concen: 0.386 ppbv m
 RT: 15.69 min Scan# 3965
 Delta R.T. -0.00 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Tgt Ion	120	Resp	41471
Ion	Ratio	Lower	Upper
120	100		
91	496.1	386.6	579.8





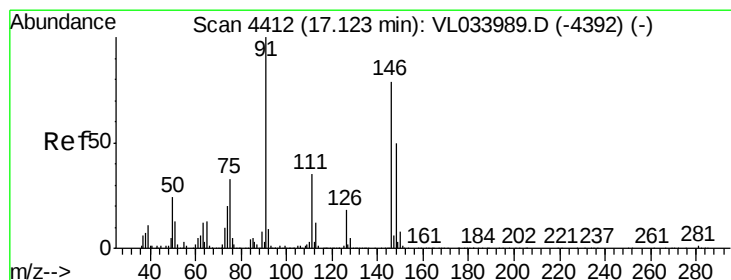
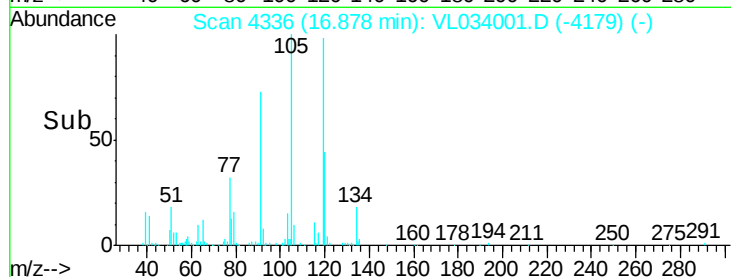
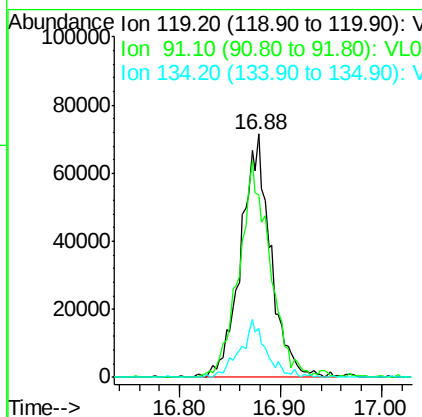
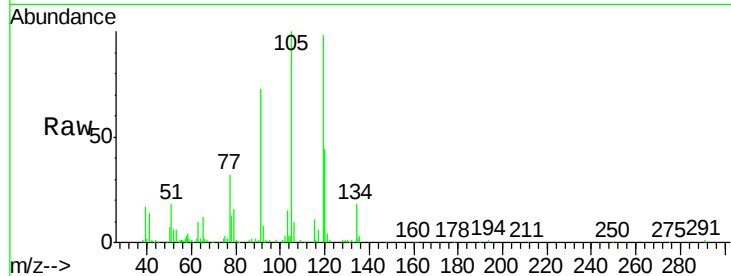
#65
tert-Butylbenzene
Concen: 0.414 ppbv m
RT: 16.88 min Scan# 4336
Delta R.T. 0.01 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
119	100	145983		
91	93.7	67.0	100.6	
134	21.2	15.8	23.6	

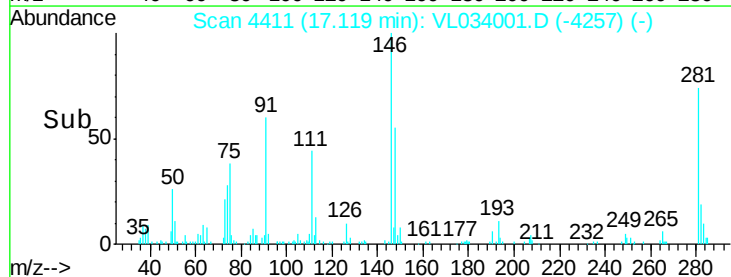
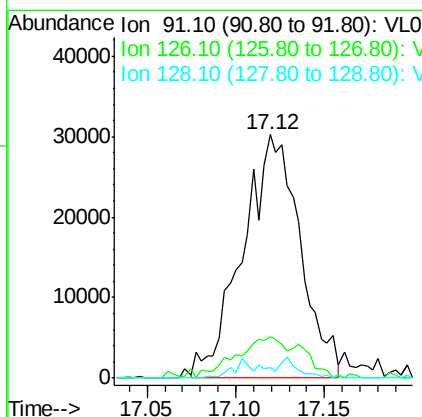
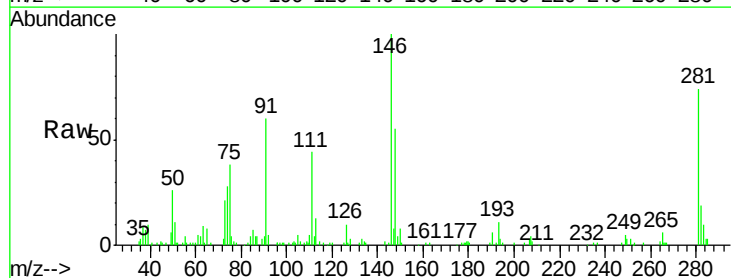
Manual Integrations
APPROVED

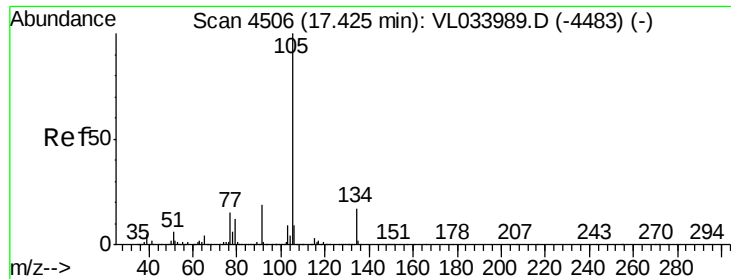
MMDadoda
7/3/2019 11:03:39 PM



#66
Benzyl Chloride
Concen: 0.380 ppbv m
RT: 17.12 min Scan# 4411
Delta R.T. -0.00 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	68408		
126	20.1	13.9	20.9	
128	6.5	4.6	7.0	





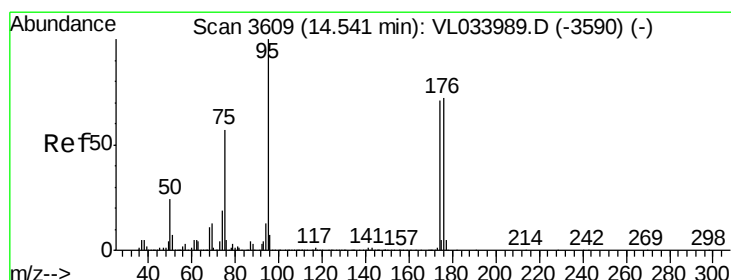
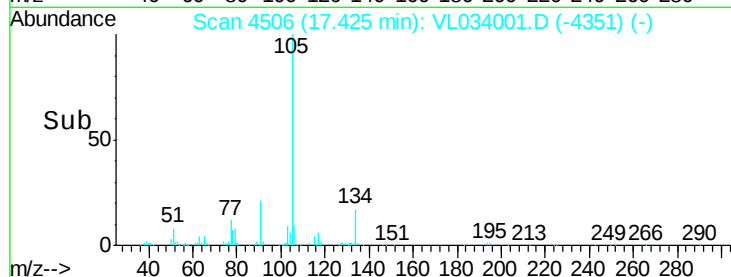
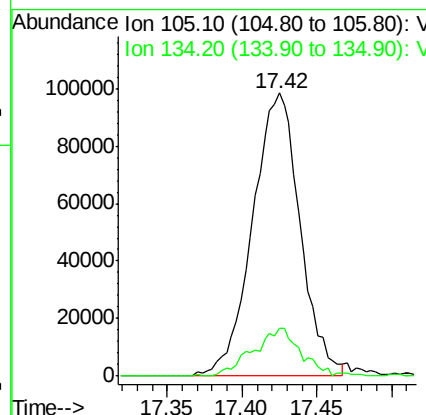
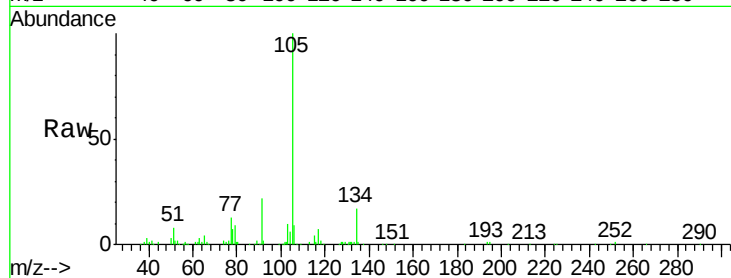
#67
 sec-Butylbenzene
 Concen: 0.440 ppbv
 RT: 17.42 min Scan# 4506
 Delta R.T. -0.00 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2019

Tot Ion: 105 Resp: 217606
 Ion Ratio Lower Upper
 105 100
 134 17.3 14.7 22.1

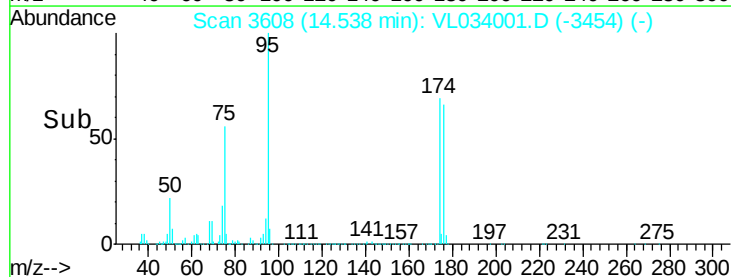
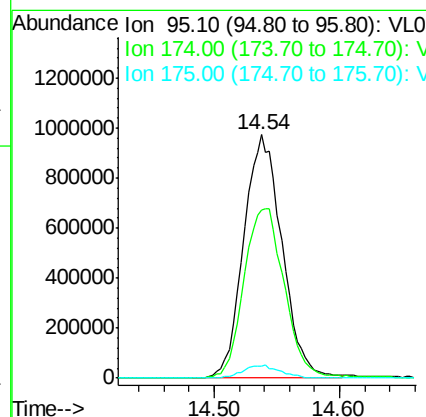
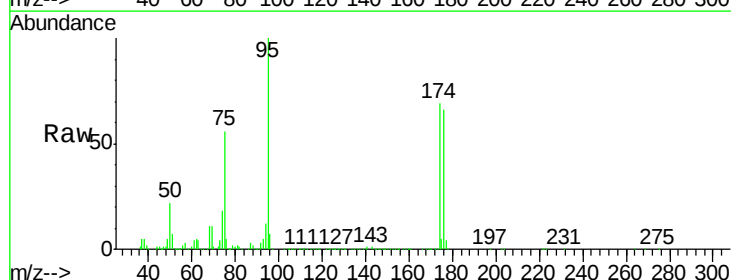
Manual Integrations
 APPROVED

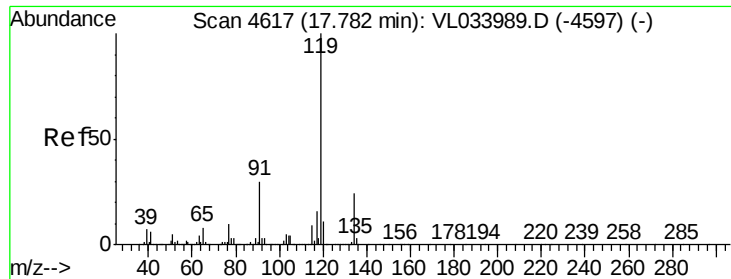
MMDadoda
 7/3/2019 11:03:39 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.784 ppbv
 RT: 14.54 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Tgt Ion: 95 Resp: 2064413
 Ion Ratio Lower Upper
 95 100
 174 74.3 60.5 90.7
 175 5.1 4.0 6.0





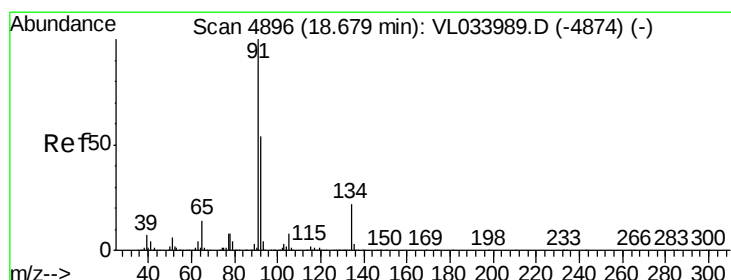
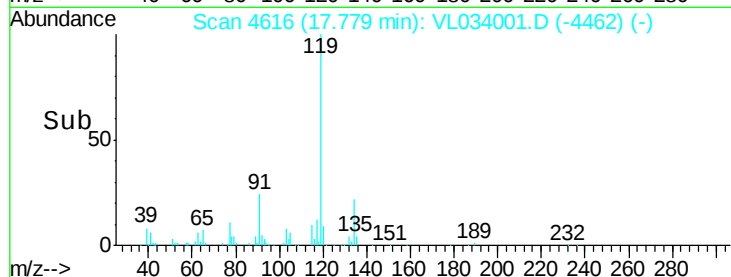
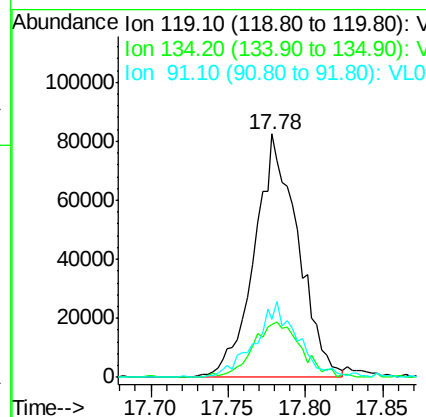
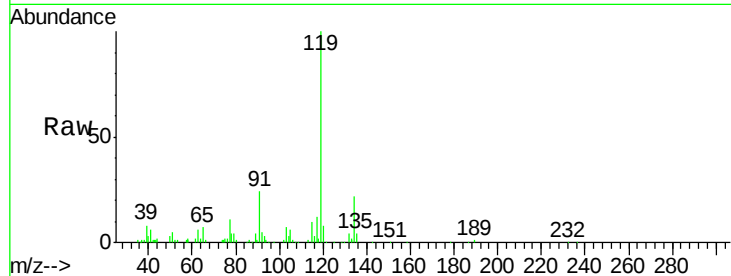
#69
 p-Isopropyltoluene
 Concen: 0.396 ppbv
 RT: 17.78 min Scan# 4616
 Delta R.T. -0.00 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2019

Tot Ion:	119	Resp:	161333
Ion Ratio	Lower	Upper	
119	100		
134	25.4	20.1	30.1
91	30.4	23.6	35.4

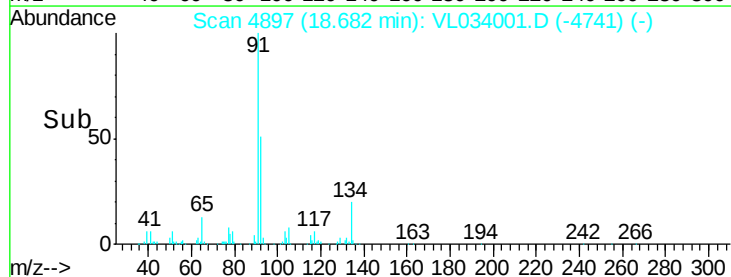
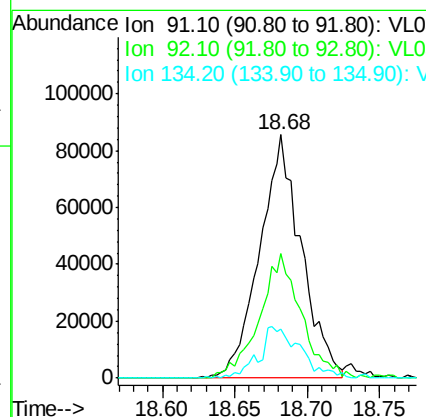
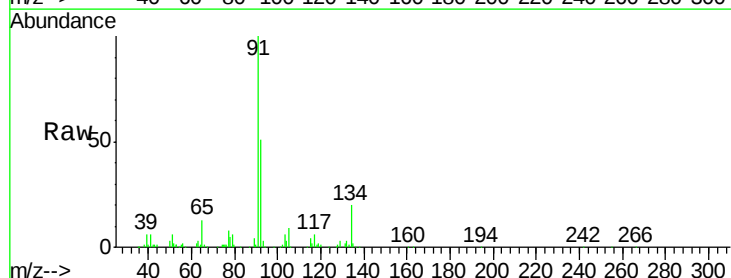
Manual Integrations
 APPROVED

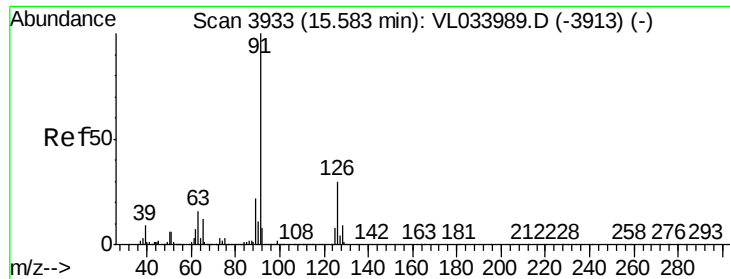
MMDadoda
 7/3/2019 11:03:39 PM



#70
 n-Butylbenzene
 Concen: 0.400 ppbv
 RT: 18.68 min Scan# 4897
 Delta R.T. 0.00 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Tgt Ion:	91	Resp:	171203
Ion Ratio	Lower	Upper	
91	100		
92	51.9	42.0	63.0
134	21.4	17.9	26.9





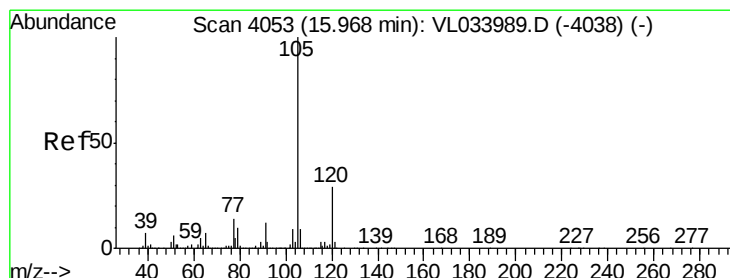
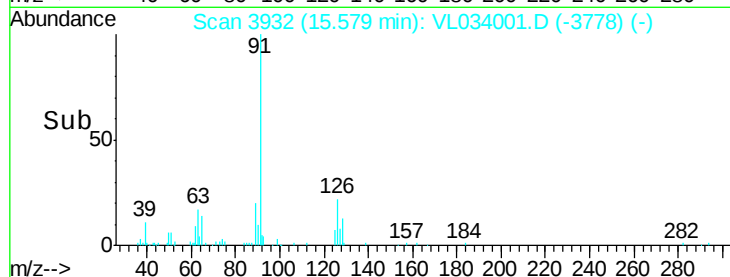
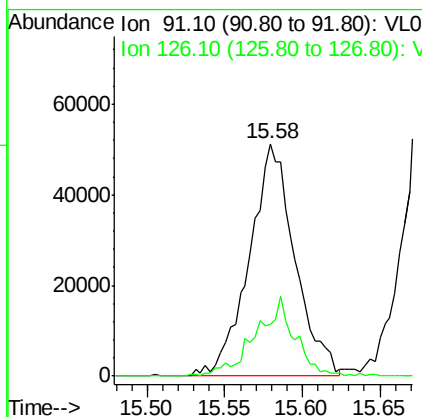
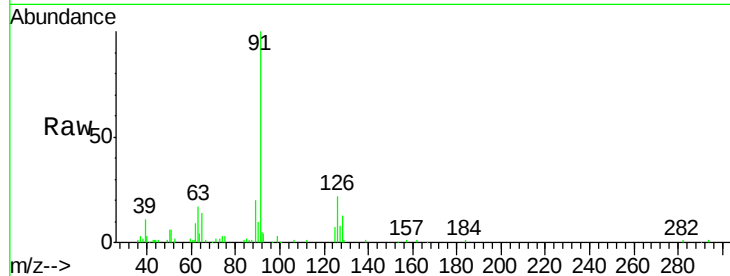
#71
2-Chlorotoluene
Concen: 0.344 ppbv m
RT: 15.58 min Scan# 3932
Delta R.T. -0.00 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
91	100		
126	29.3	12.3	49.3

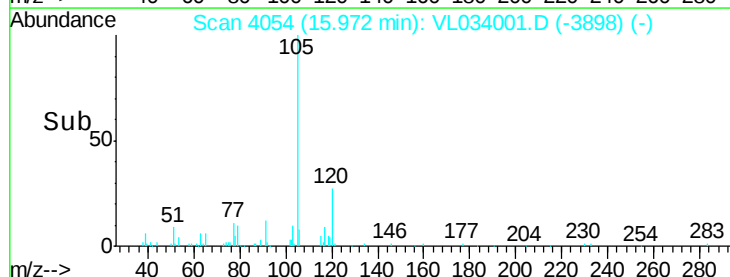
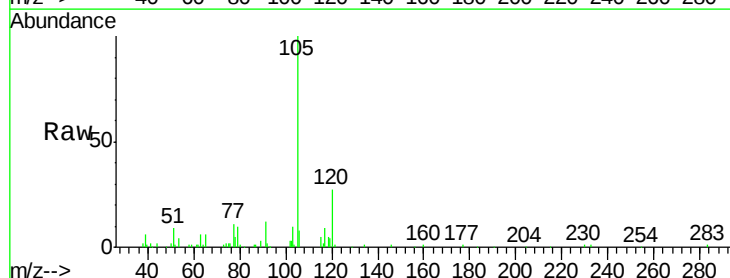
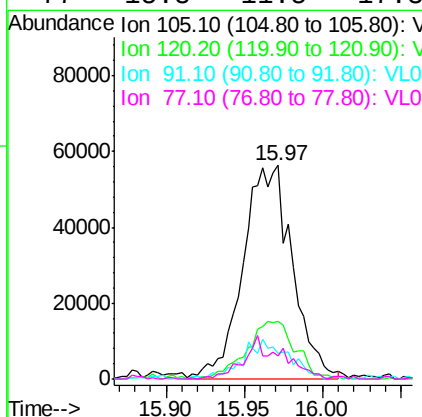
Manual Integrations
APPROVED

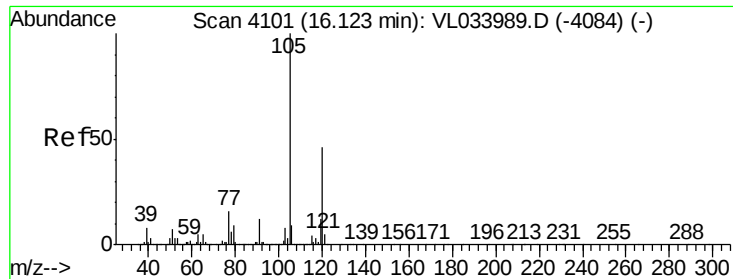
MMDadoda
7/3/2019 11:03:39 PM



#72
4-Ethyltoluene
Concen: 0.357 ppbv m
RT: 15.97 min Scan# 4054
Delta R.T. 0.00 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.6	24.1	36.1
91	16.7	10.6	16.0#
77	15.8	11.5	17.3





#73

1,3,5-Trimethylbenzene

Concen: 0.409 ppbv m

RT: 16.12 min Scan# 4100

Delta R.T. -0.00 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2019

Tot Ion:105 Resp: 131626

Ion Ratio Lower Upper

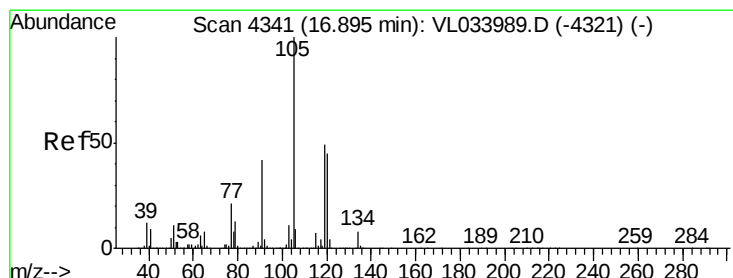
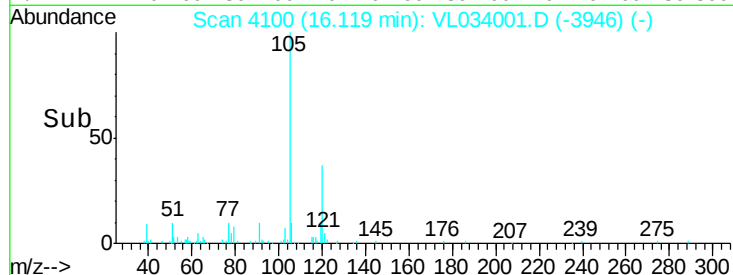
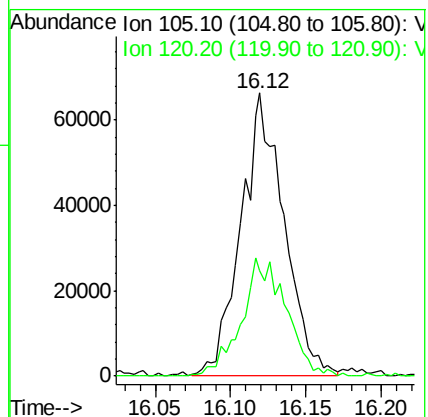
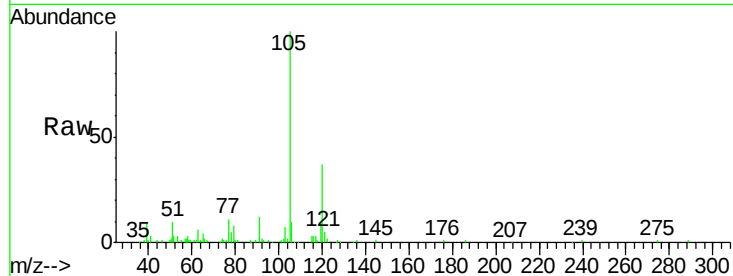
105 100

120 37.4 36.4 54.6

Manual Integrations
APPROVED

MMDadoda

7/3/2019 11:03:39 PM



#74

1,2,4-Trimethylbenzene

Concen: 0.470 ppbv m

RT: 16.88 min Scan# 4338

Delta R.T. -0.01 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Tgt Ion:105 Resp: 167508

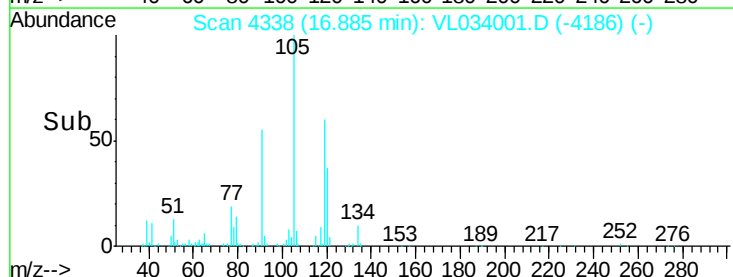
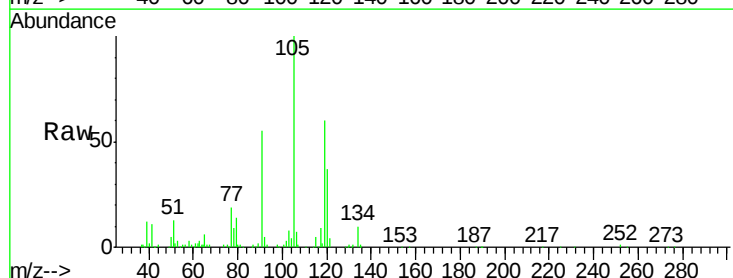
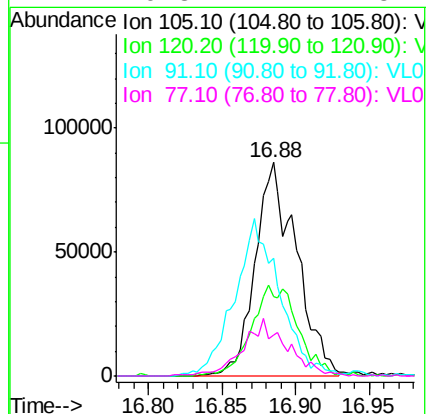
Ion Ratio Lower Upper

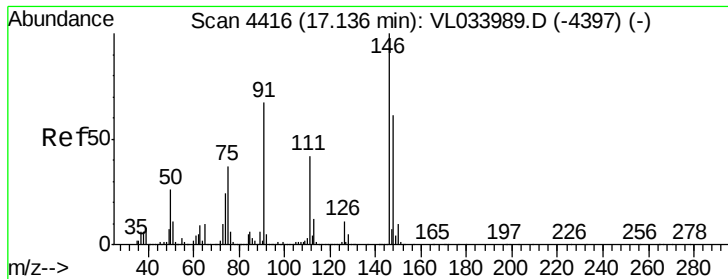
105 100

120 37.4 36.2 54.2

91 55.2 34.3 51.5#

77 19.3 17.1 25.7





#75

1,3-Dichlorobenzene

Concen: 0.526 ppbv m

RT: 17.13 min Scan# 4414

Delta R.T. -0.01 min

Lab File: VL034001.D

Acq: 3 Jul 2019 1:56

Instrument :

MSVOA_L

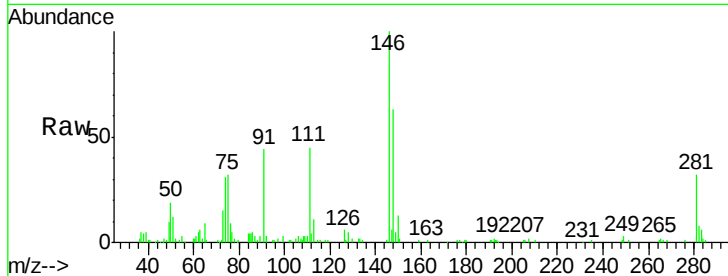
ClientSampleId :

LOQ-AIR-02-QT3-2019

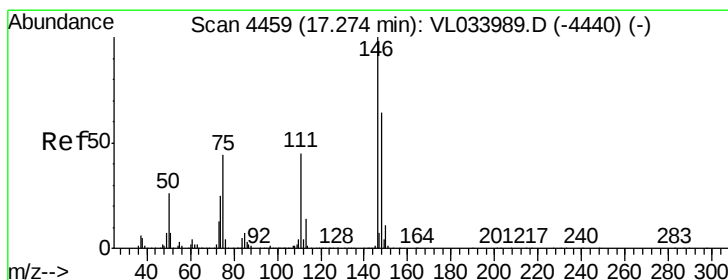
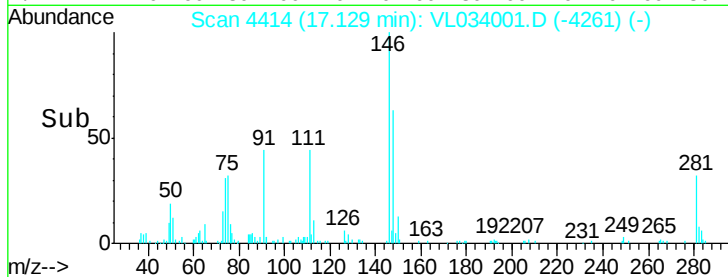
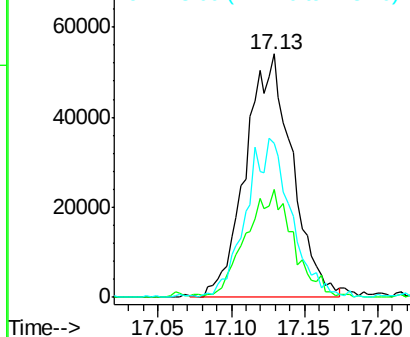
Tot Ion:	146	Resp:	119272
Ion Ratio	Lower	Upper	
146	100		
111	45.7	22.3	66.9
148	63.3	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
7/3/2019 11:03:39 PM



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



#76

1,4-Dichlorobenzene

Concen: 0.476 ppbv m

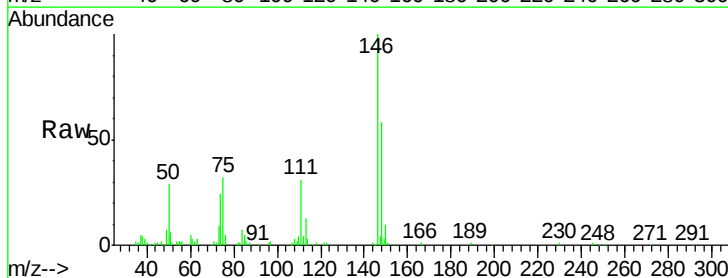
RT: 17.27 min Scan# 4457

Delta R.T. -0.01 min

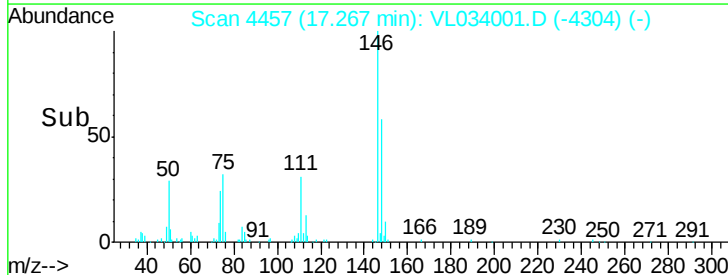
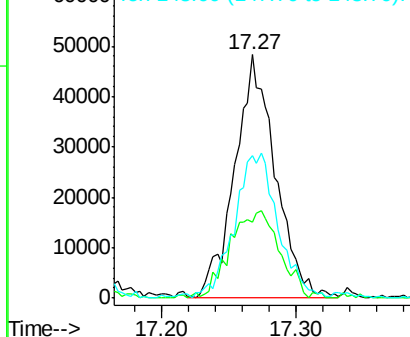
Lab File: VL034001.D

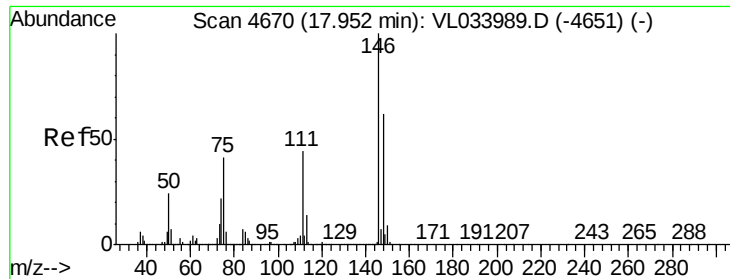
Acq: 3 Jul 2019 1:56

Tgt Ion:	146	Resp:	101567
Ion Ratio	Lower	Upper	
146	100		
111	44.7	21.9	65.5
148	66.1	32.5	97.5



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





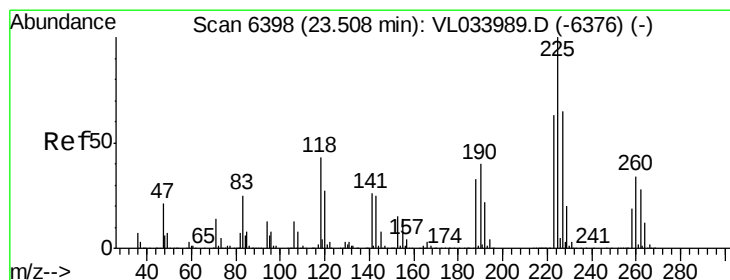
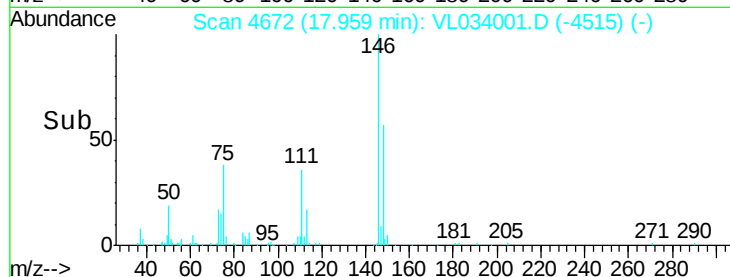
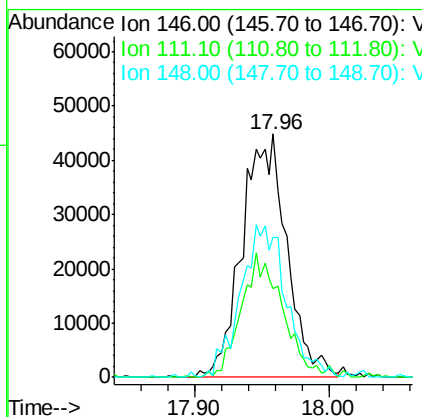
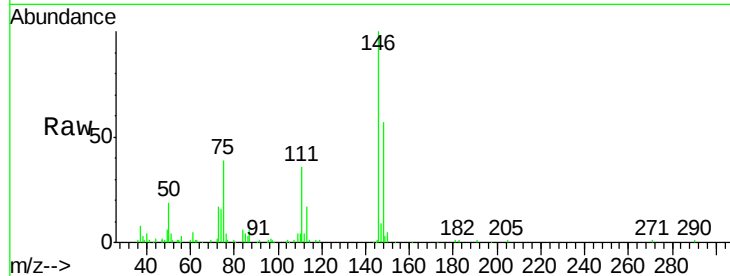
#77
 1,2-Dichlorobenzene
 Concen: 0.493 ppbv m
 RT: 17.96 min Scan# 4672
 Delta R.T. 0.01 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.7	22.7	68.1
148	64.1	32.1	96.3

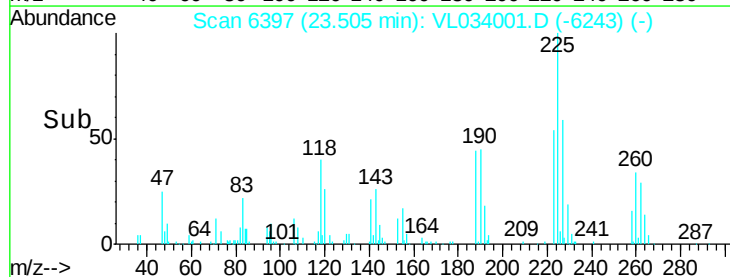
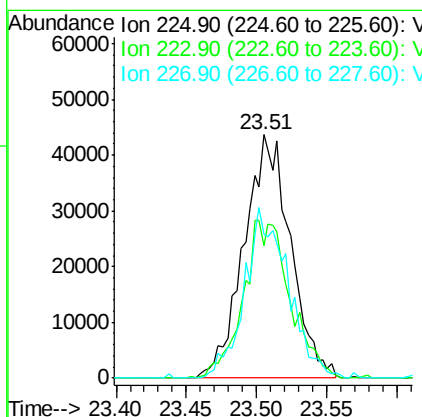
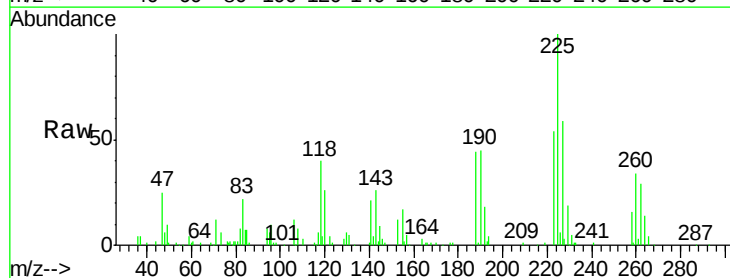
Manual Integrations
 APPROVED

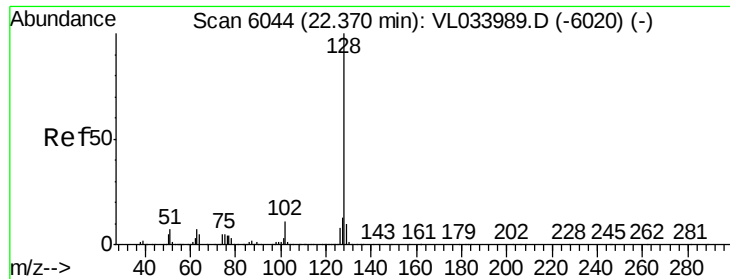
MMDadoda
 7/3/2019 11:03:39 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.565 ppbv m
 RT: 23.51 min Scan# 6397
 Delta R.T. -0.00 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.7	51.5	77.3
227	65.5	52.1	78.1





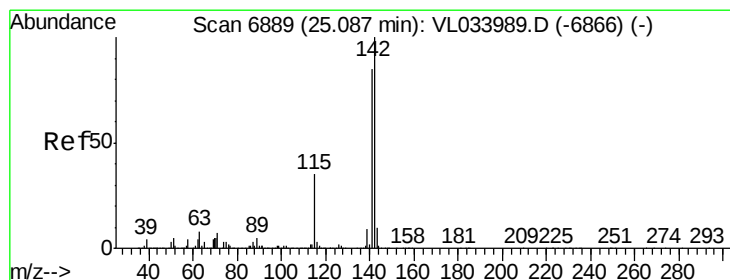
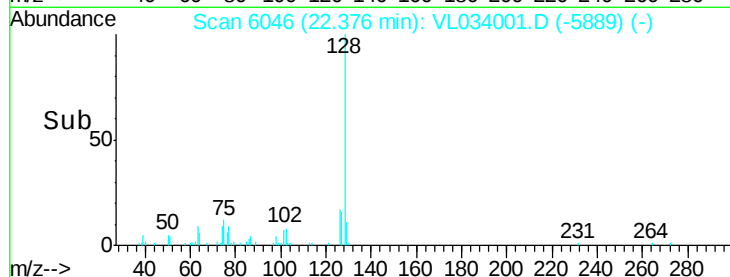
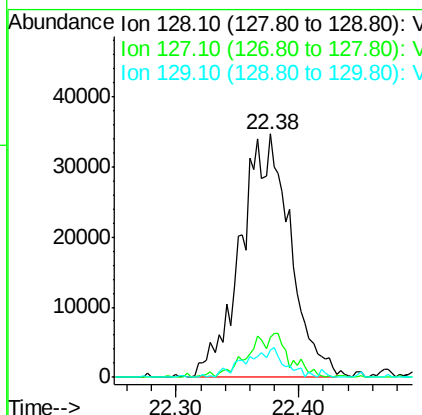
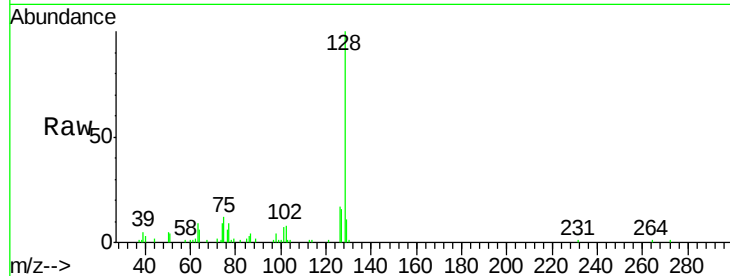
#79
Naphthalene
Concen: 0.323 ppbv m
RT: 22.38 min Scan# 6046
Delta R.T. 0.01 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	16.3	10.6	15.8#
129	11.1	8.3	12.5

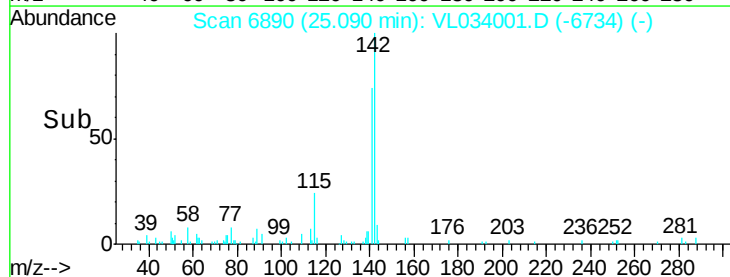
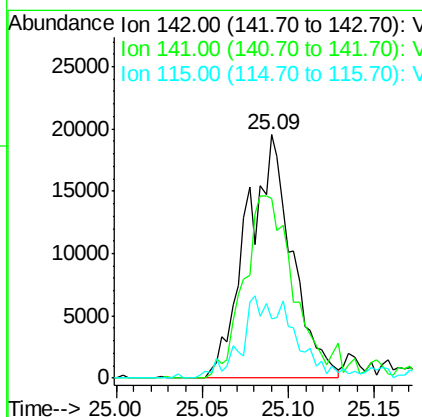
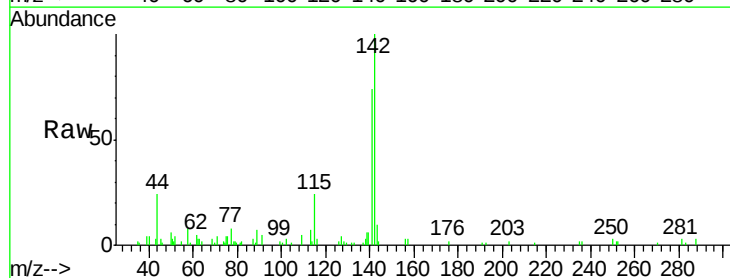
Manual Integrations
APPROVED

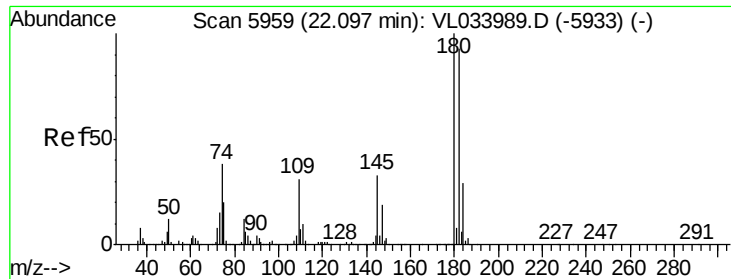
MMDadoda
7/3/2019 11:03:39 PM



#80
Naphthalene, 2-methyl-
Concen: 0.328 ppbv
RT: 25.09 min Scan# 6890
Delta R.T. 0.00 min
Lab File: VL034001.D
Acq: 3 Jul 2019 1:56

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.7	68.2	102.2
115	38.2	29.9	44.9





#81
 1,2,4-Trichlorobenzene
 Concen: 0.397 ppbv m
 RT: 22.09 min Scan# 5957
 Delta R.T. -0.01 min
 Lab File: VL034001.D
 Acq: 3 Jul 2019 1:56

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Resp Lower	Upper
180	100		
182	0.0	76.6	114.8#
184	0.0	24.6	36.8#

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:39 PM

