

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070518\
 Data File : VL032221.D
 Acq On : 6 Jul 2018 2:30
 Operator : SY/AP
 Sample : J3762-15 0.1 PPB LOD
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Manual Integrations
 APPROVED

MMDadoda
 7/9/2018 10:47:49 AM

Quant Time: Jul 06 12:37:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1632491	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	4096111	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3910062	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3032576	10.15	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	39061	0.18	ppbv	# 80
3) Chlorodifluoromethane	3.07	51	24209	0.12	ppbv	95
4) Chloromethane	3.23	50	14124	0.13	ppbv	89
5) Vinyl Chloride	3.35	62	12285m	0.11	ppbv	
6) Bromomethane	3.58	94	7022	0.11	ppbv	94
7) Chloroethane	3.67	64	4712	0.12	ppbv	# 78
8) Dichlorotetrafluoroethane	3.28	85	31513	0.13	ppbv	86
9) Propene	3.09	41	9811	0.11	ppbv	95
10) Heptane	8.33	43	21512m	0.08	ppbv	
11) Trichlorofluoromethane	4.07	101	29784	0.13	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.63	101	17532m	0.11	ppbv	
14) Bromoethene	3.86	108	5951	0.08	ppbv	# 58
15) Acetone	3.99	43	33873	0.18	ppbv	98
16) 1,3-Butadiene	3.43	39	10206m	0.11	ppbv	
17) tert-Butyl alcohol	4.47	59	10056m	0.08	ppbv	
18) 1,1-Dichloroethene	4.42	96	7105	0.10	ppbv	# 85
19) Isopropyl Alcohol	4.13	45	16601	0.10	ppbv	# 53
20) Methylene Chloride	4.48	84	12369m	0.18	ppbv	
21) Allvl Chloride	4.55	41	10968	0.08	ppbv	# 81
22) trans-1,2-Dichloroethene	5.04	96	7583m	0.10	ppbv	
23) Vinyl Acetate	5.24	43	28993	0.08	ppbv	# 93
24) 1,1-Dichloroethane	5.16	63	25505m	0.12	ppbv	
25) Ethyl Acetate	5.86	43	41269	0.10	ppbv	97
26) Hexane	5.86	57	18319m	0.10	ppbv	
27) Carbon Disulfide	4.70	76	13078m	0.07	ppbv	
28) Methyl tert-Butyl Ether	5.22	73	25564m	0.08	ppbv	
29) Chloroform	5.93	83	32706	0.12	ppbv	89
30) Cyclohexane	7.33	84	25123m	0.15	ppbv	
31) cis-1,2-Dichloroethene	5.72	61	16275	0.09	ppbv	# 78
32) 1,1,1-Trichloroethane	6.70	97	27934m	0.10	ppbv	
34) 2-Butanone	5.43	43	28074m	0.11	ppbv	
35) Carbon Tetrachloride	7.22	117	31490m	0.11	ppbv	
36) Benzene	7.09	78	38088	0.10	ppbv	# 91
37) 1,2-Dichloroethane	6.49	62	26690m	0.14	ppbv	
38) Trichloroethene	8.05	130	14761	0.10	ppbv	86
39) 1,2-Dichloropropane	7.83	63	18595m	0.12	ppbv	
41) Tetrahydrofuran	6.28	42	13162m	0.08	ppbv	
42) Bromodichloromethane	8.01	83	30865	0.10	ppbv	# 97
43) Methyl Methacrylate	8.24	69	12480m	0.08	ppbv	
44) 2,2,4-Trimethylpentane	8.08	57	59145m	0.09	ppbv	
45) t-1,3-Dichloropropene	9.51	75	12406m	0.06	ppbv	

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Manual Integrations
 APPROVED

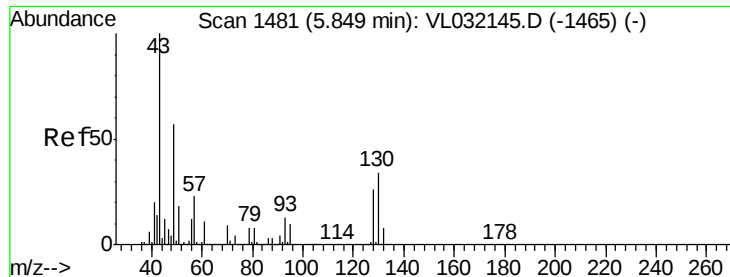
MMDadoda
 7/9/2018 10:47:49 AM

Quant Time: Jul 06 12:37:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

46) cis-1,3-Dichloropropene	8.92	75	14596m	0.06	ppbv	
47) 1,1,2-Trichloroethane	9.71	97	20256m	0.12	ppbv	
48) Dibromochloromethane	10.54	129	20537m	0.08	ppbv	
49) Bromoform	13.30	173	15992m	0.08	ppbv	
50) 4-Methyl-2-Pentanone	9.00	43	33525m	0.08	ppbv	
51) 2-Hexanone	10.40	43	27073m	0.08	ppbv	
52) Tetrachloroethene	11.47	164	15101m	0.10	ppbv	
53) Toluene	10.04	91	35193m	0.07	ppbv	
54) 1,2-Dibromoethane	10.85	107	25700m	0.11	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.37	131	20393m	0.12	ppbv	
57) Chlorobenzene	12.39	112	43964m	0.13	ppbv	
58) Ethyl Benzene	12.96	91	52157m	0.08	ppbv	
59) m/p-Xylene	13.22	91	80842m	0.16	ppbv	
60) o-Xylene	13.95	91	40726m	0.08	ppbv	
61) Styrene	13.78	104	26027m	0.06	ppbv	
62) Isopropylbenzene	14.93	105	65721m	0.08	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.94	83	43075	0.11	ppbv	88
64) n-propylbenzene	15.82	120	14724m	0.07	ppbv	
65) tert-Butylbenzene	17.01	119	50381m	0.07	ppbv	
66) Benzyl Chloride	17.25	91	17523m	0.04	ppbv	
67) sec-Butylbenzene	17.55	105	74457m	0.07	ppbv	
69) p-Isopropyltoluene	17.91	119	53731m	0.07	ppbv	
70) n-Butylbenzene	18.82	91	59271m	0.07	ppbv	
71) 2-Chlorotoluene	15.72	91	48420m	0.08	ppbv	
72) 4-Ethyltoluene	16.10	105	38883	0.06	ppbv #	90
73) 1,3,5-Trimethylbenzene	16.25	105	41816m	0.07	ppbv	
74) 1,2,4-Trimethylbenzene	17.02	105	47136m	0.08	ppbv	
75) 1,3-Dichlorobenzene	17.26	146	40559m	0.12	ppbv	
76) 1,4-Dichlorobenzene	17.40	146	31972	0.09	ppbv	97
77) 1,2-Dichlorobenzene	18.09	146	35469m	0.10	ppbv	
78) Hexachloro-1,3-Butadiene	23.63	225	15313m	0.13	ppbv	
79) Naphthalene	22.53	128	23796m	0.04	ppbv	
81) 1,2,4-Trichlorobenzene	22.27	180	14392m	0.06	ppbv	

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion: 49 Resp: 1632491

Ion Ratio Lower Upper

49 100

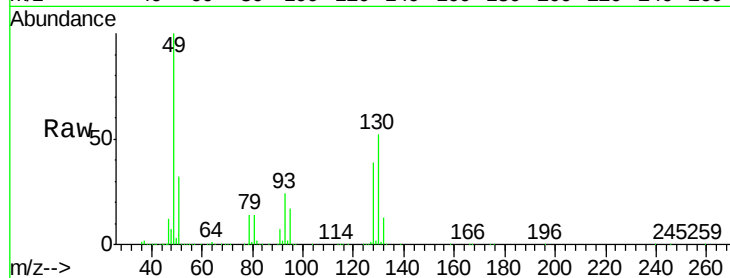
128 42.5 23.4 70.0

130 54.6 30.3 90.9

Manual Integrations
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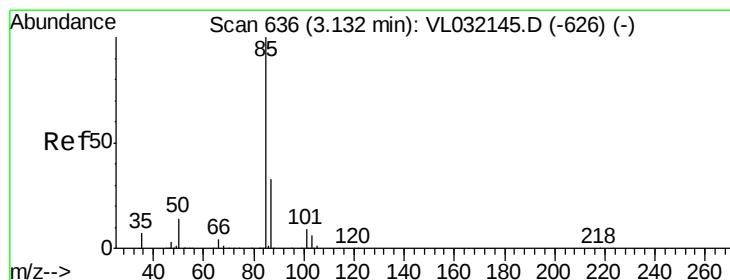
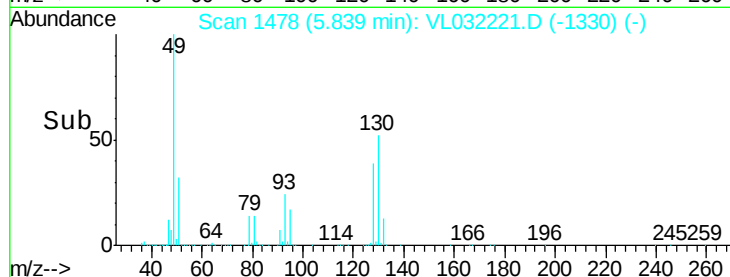
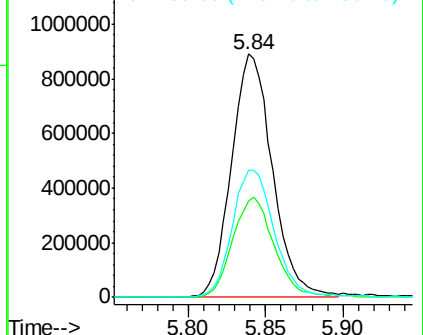
7/9/2018 10:47:49 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.18 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032221.D

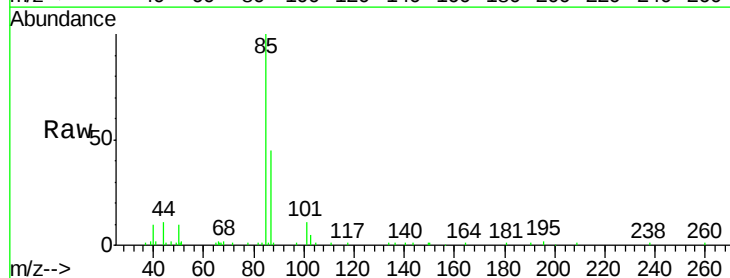
Acq: 6 Jul 2018 2:30

Tgt Ion: 85 Resp: 39061

Ion Ratio Lower Upper

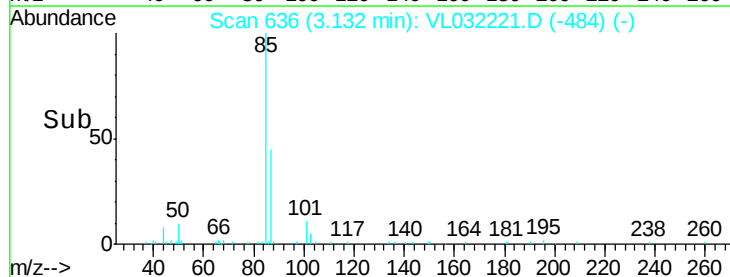
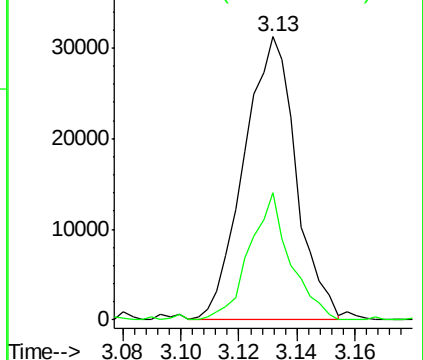
85 100

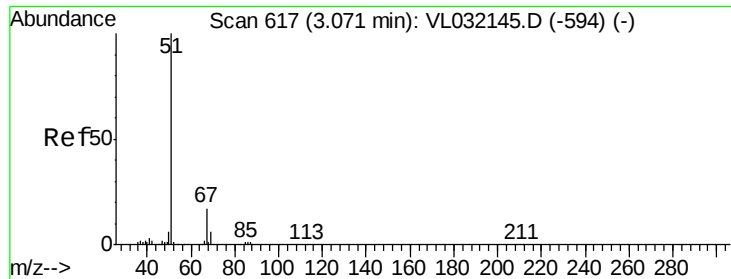
87 44.8 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.12 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.01 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion: 51 Resp: 24209

Ion Ratio Lower Upper

51 100

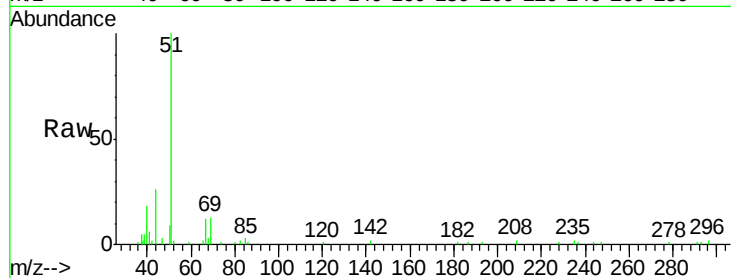
67 18.5 13.2 19.8

Manual Integrations

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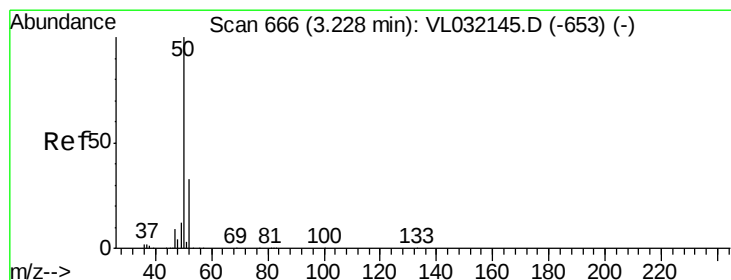
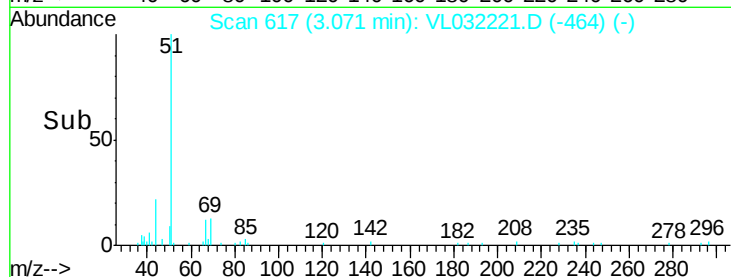
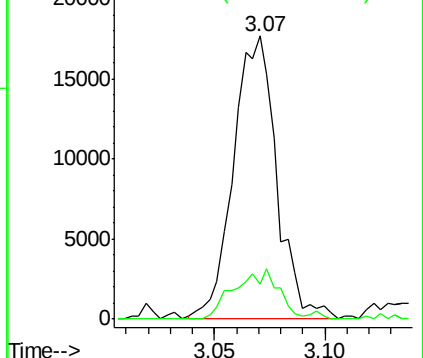
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.13 ppbv

RT: 3.23 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL032221.D

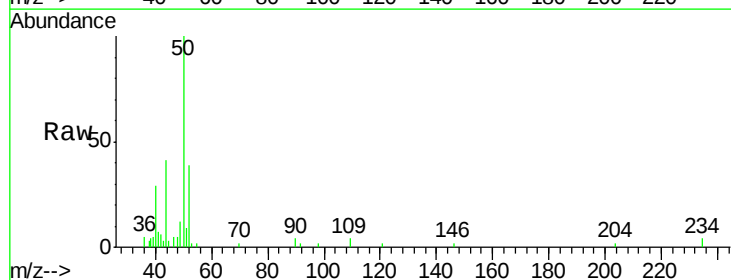
Acq: 6 Jul 2018 2:30

Tgt Ion: 50 Resp: 14124

Ion Ratio Lower Upper

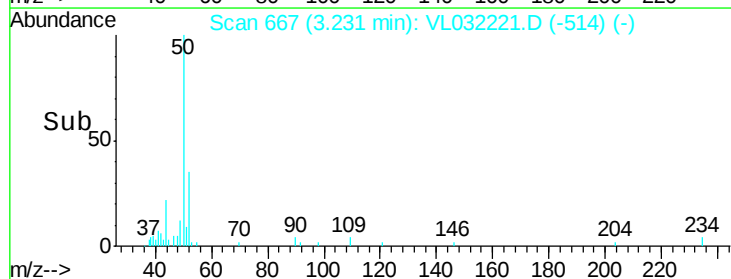
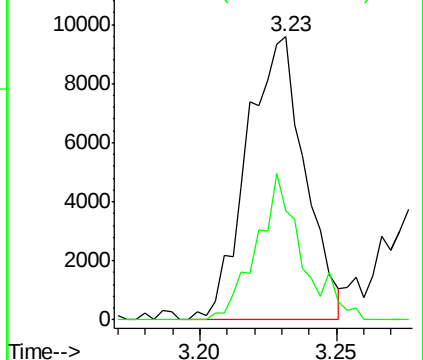
50 100

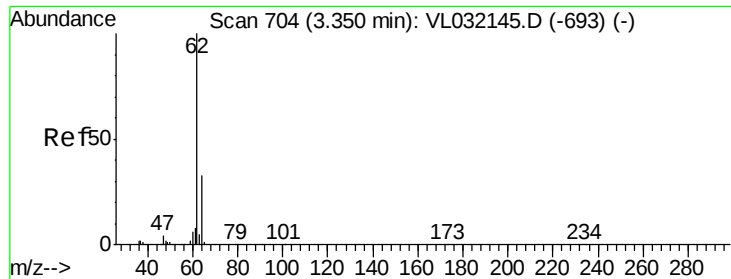
52 38.6 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.11 ppbv m

RT: 3.35 min Scan# 705

Delta R.T. -0.00 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion: 62 Resp: 12285

Ion Ratio Lower Upper

62 100

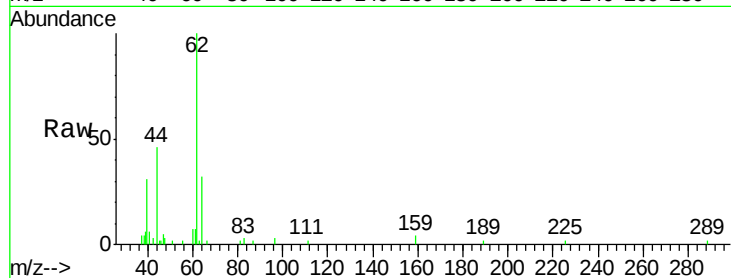
64 31.9 26.1 39.1

Manual Integrations

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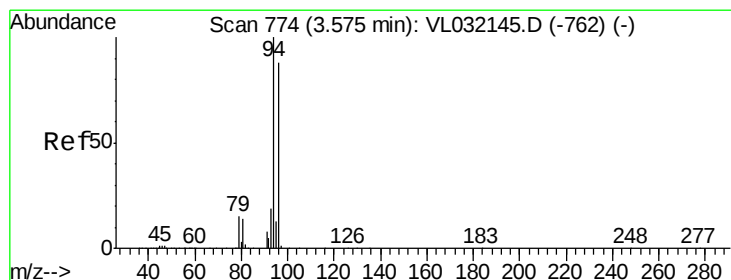
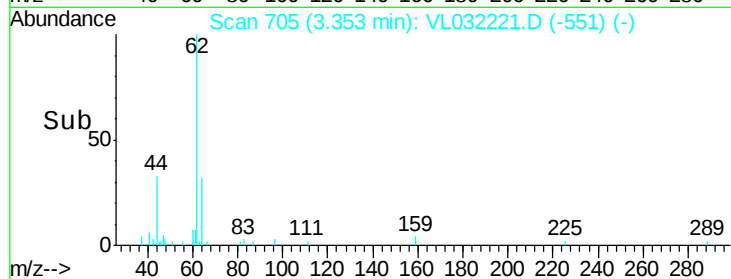
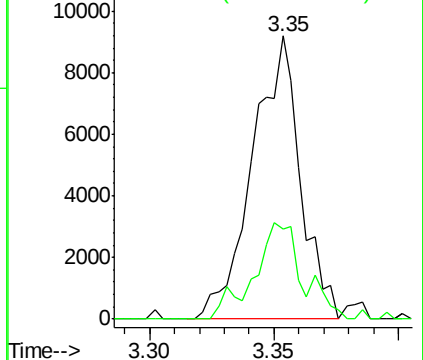
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.11 ppbv

RT: 3.58 min Scan# 776

Delta R.T. -0.00 min

Lab File: VL032221.D

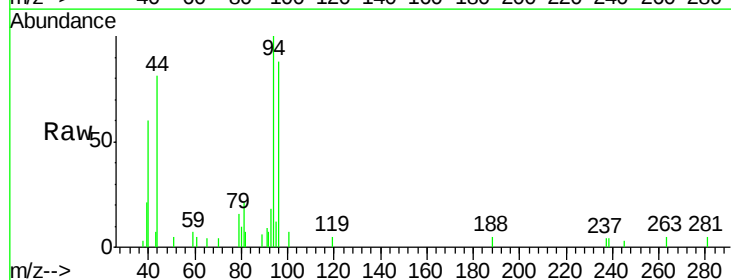
Acq: 6 Jul 2018 2:30

Tgt Ion: 94 Resp: 7022

Ion Ratio Lower Upper

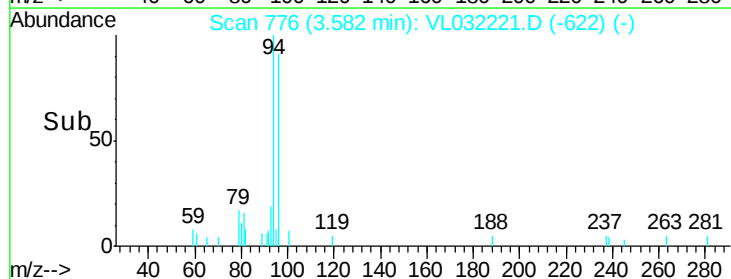
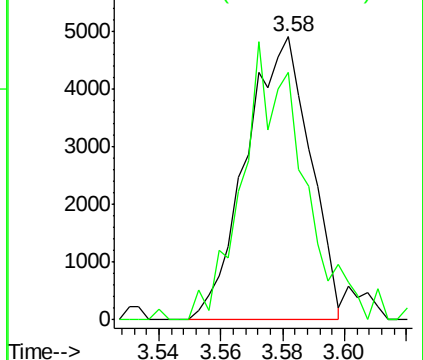
94 100

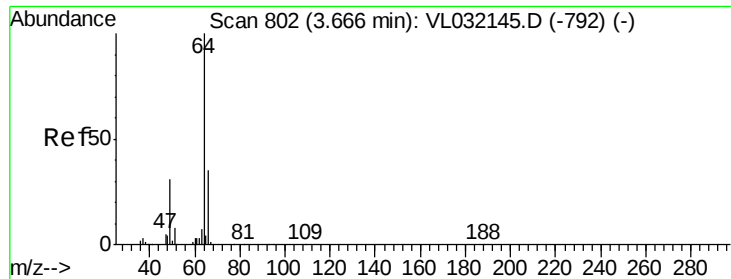
96 87.7 74.7 112.1



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.12 ppbv

RT: 3.67 min Scan# 802

Delta R.T. -0.01 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion: 64 Resp: 4712

Ion Ratio Lower Upper

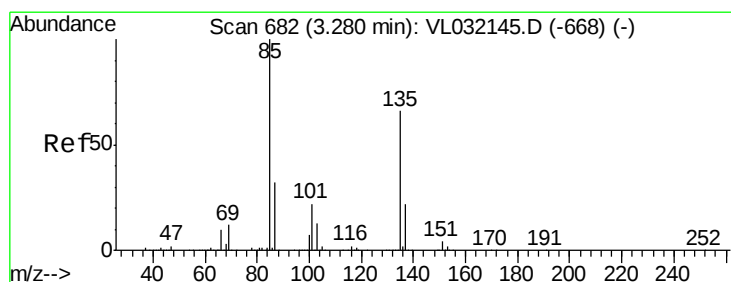
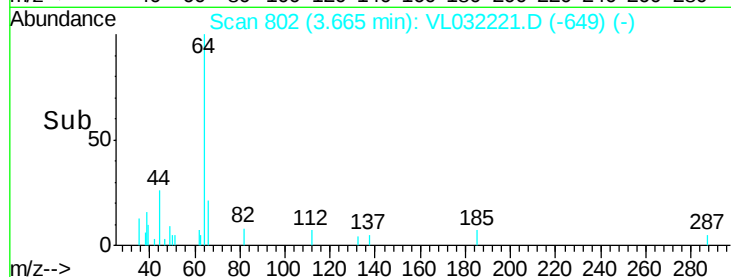
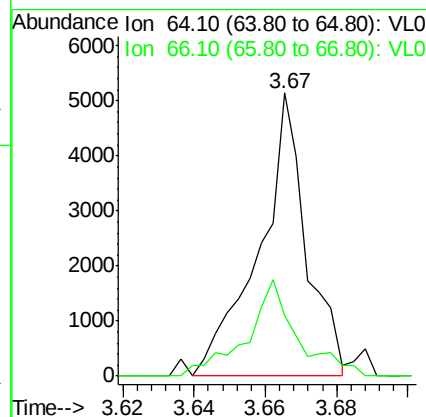
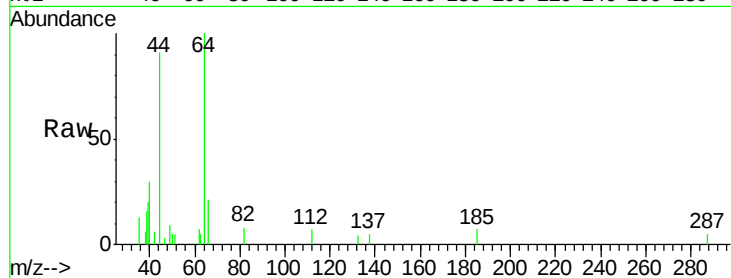
64 100

66 21.2 26.9 40.3#

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 0.13 ppbv

RT: 3.28 min Scan# 681

Delta R.T. -0.01 min

Lab File: VL032221.D

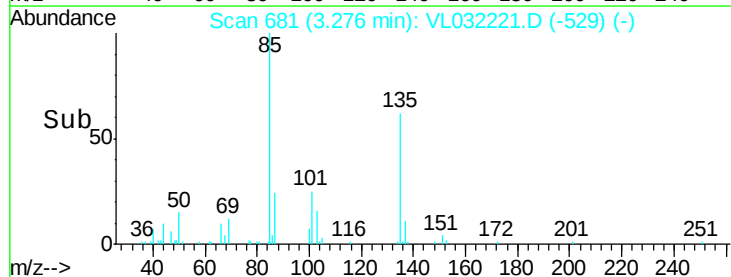
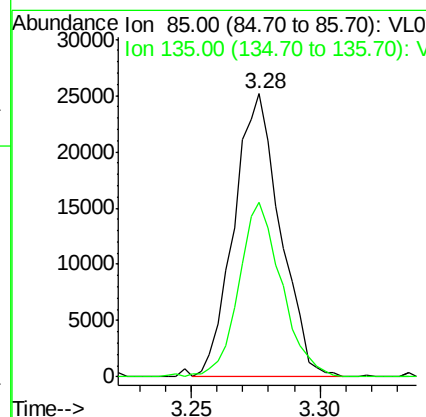
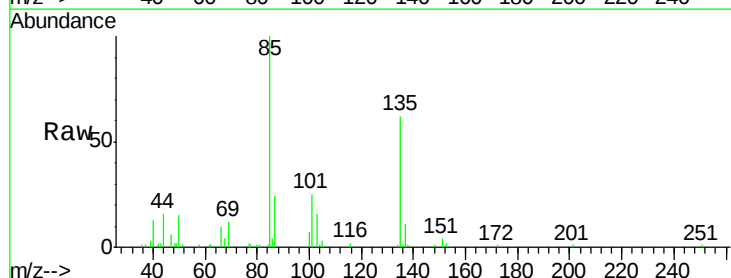
Acq: 6 Jul 2018 2:30

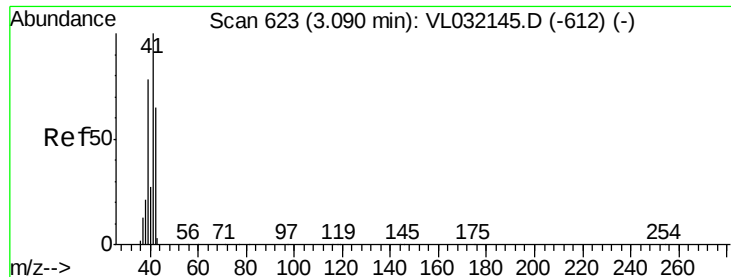
Tgt Ion: 85 Resp: 31513

Ion Ratio Lower Upper

85 100

135 57.3 54.6 82.0





#9

Propene

Concen: 0.11 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion: 41 Resp: 9811

Ion Ratio Lower Upper

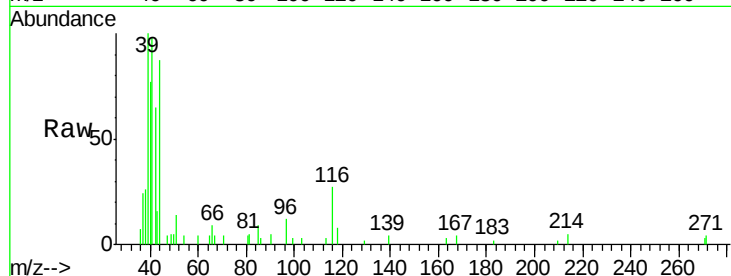
41 100

42 66.1 56.2 84.4

Manual Integrations
APPROVED

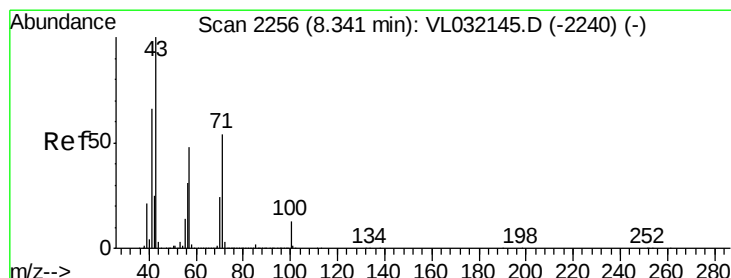
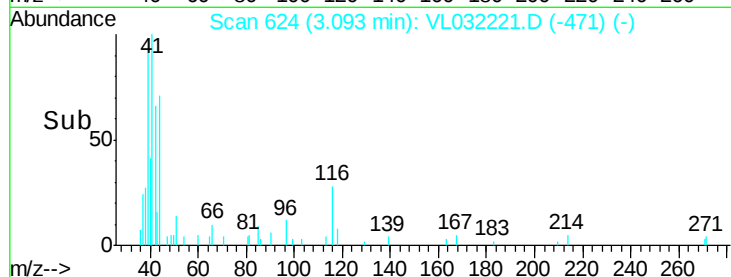
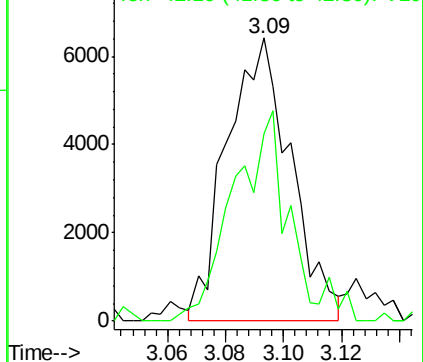
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.08 ppbv m

RT: 8.33 min Scan# 2254

Delta R.T. -0.02 min

Lab File: VL032221.D

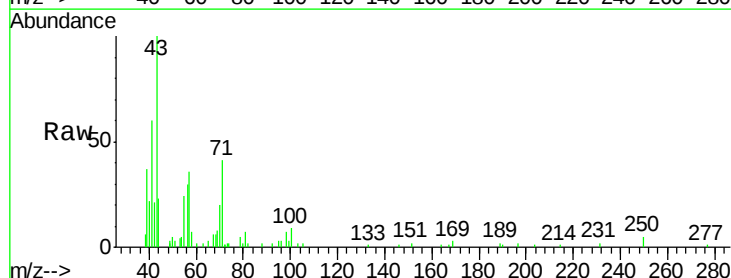
Acq: 6 Jul 2018 2:30

Tgt Ion: 43 Resp: 21512

Ion Ratio Lower Upper

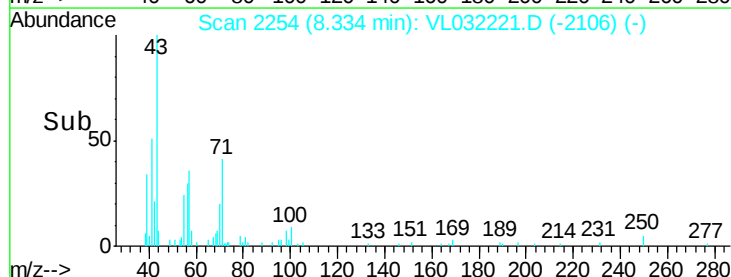
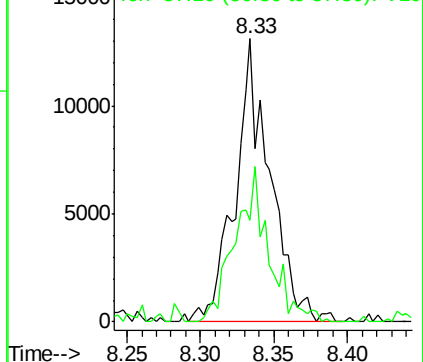
43 100

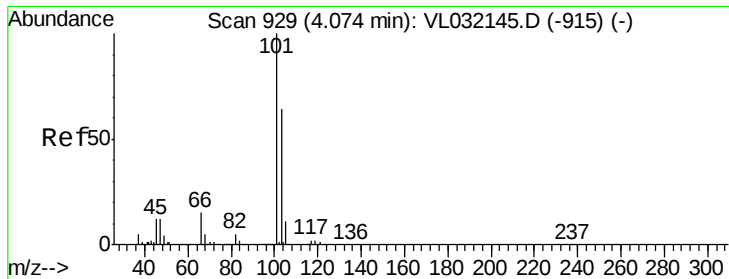
57 0.0 39.8 59.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





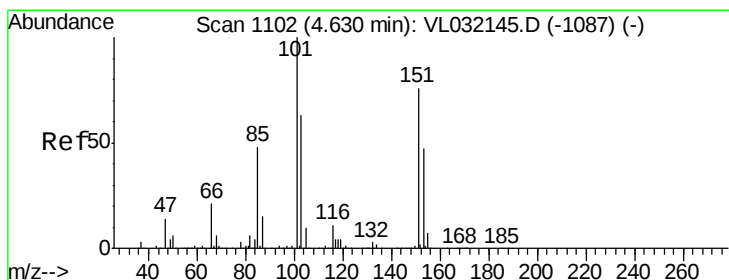
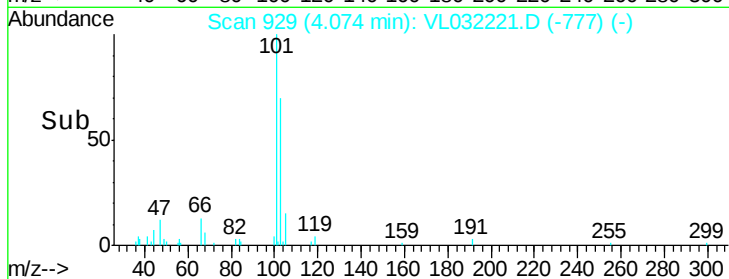
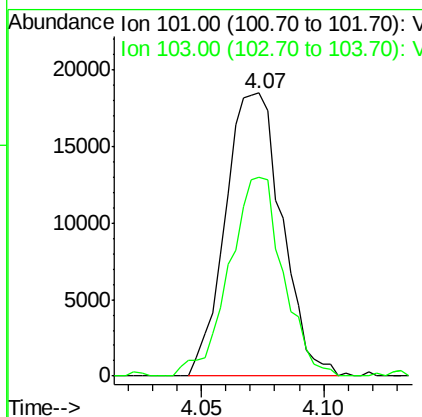
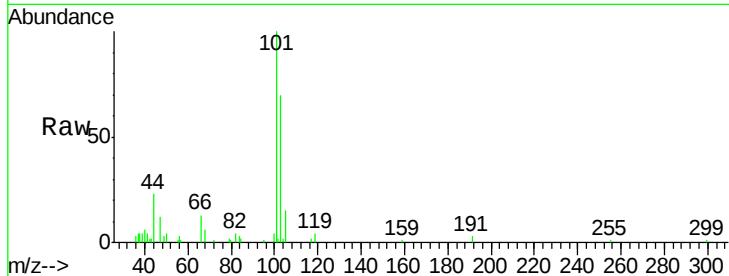
#11
 Trichlorofluoromethane
 Concen: 0.13 ppbv
 RT: 4.07 min Scan# 929
 Delta R.T. -0.01 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
101	100		
103	69.1	51.4	77.0

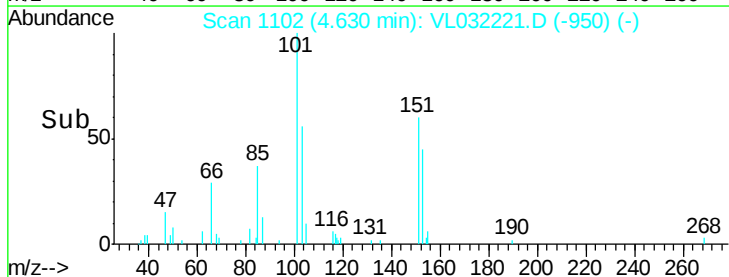
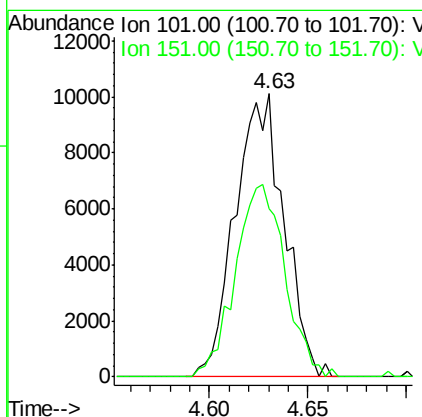
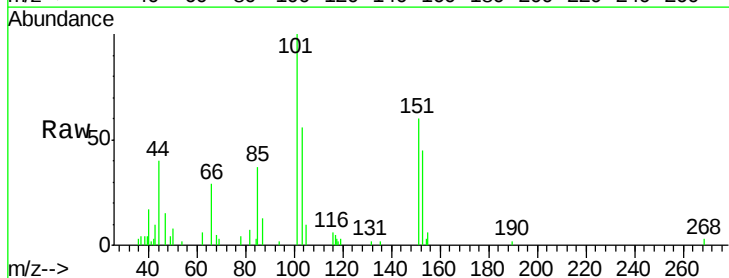
Manual Integrations
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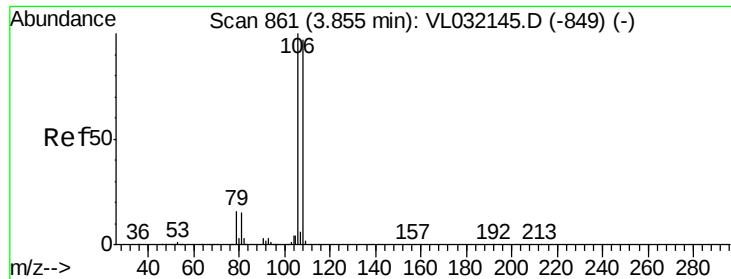
MMDadoda
 7/9/2018 10:47:49 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.11 ppbv m
 RT: 4.63 min Scan# 1102
 Delta R.T. -0.01 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Lower	Upper
101	100		
151	0.0	58.8	88.2#





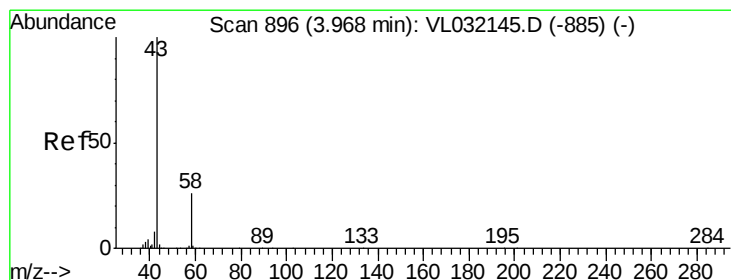
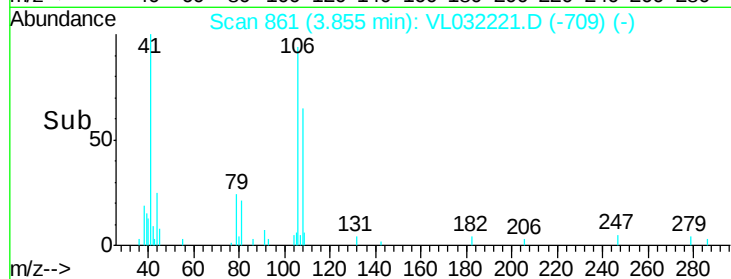
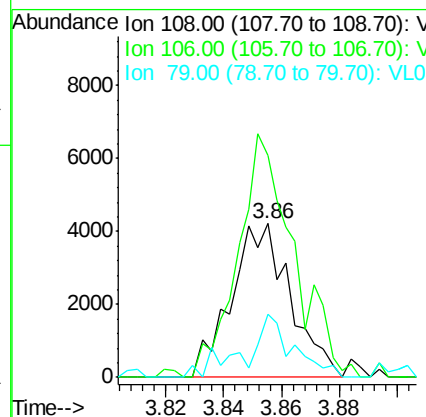
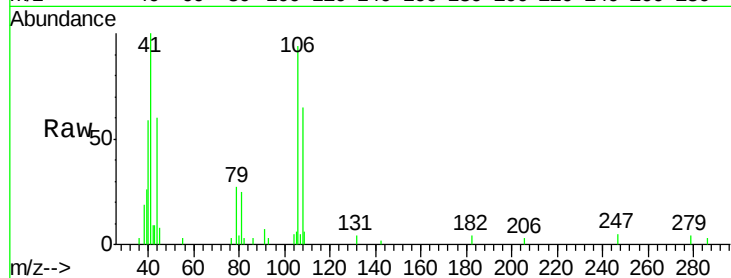
#14
Bromoethene
Concen: 0.08 ppbv
RT: 3.86 min Scan# 861
Delta R.T. -0.01 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
108	100		
106	152.0	86.3	129.5#
79	33.0	12.7	19.1#

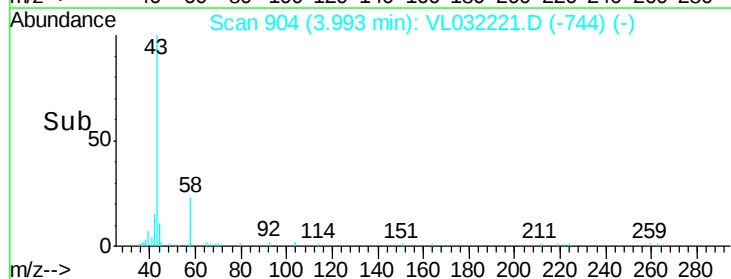
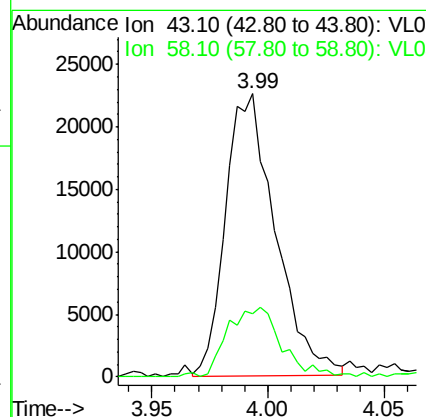
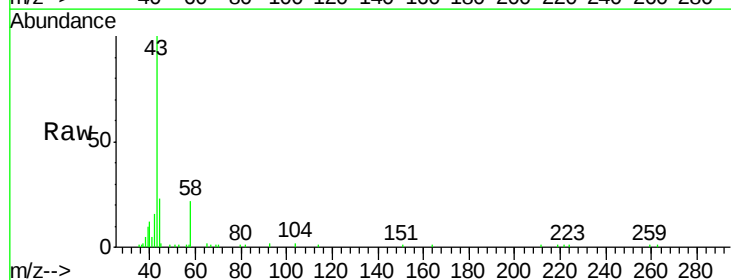
Manual Integrations
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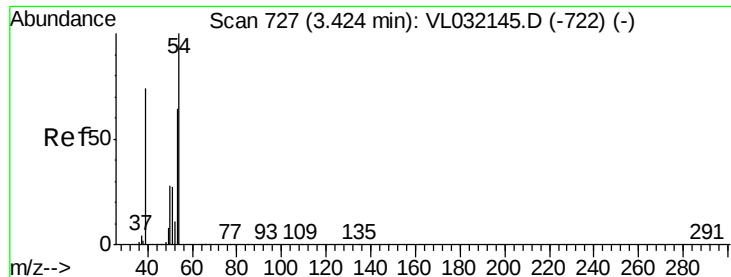
MMDadoda
7/9/2018 10:47:49 AM



#15
Acetone
Concen: 0.18 ppbv
RT: 3.99 min Scan# 904
Delta R.T. 0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.9	21.4	32.0





#16

1,3-Butadiene

Concen: 0.11 ppbv m

RT: 3.43 min Scan# 728

Delta R.T. -0.00 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion: 39 Resp: 10206

Ion Ratio Lower Upper

39 100

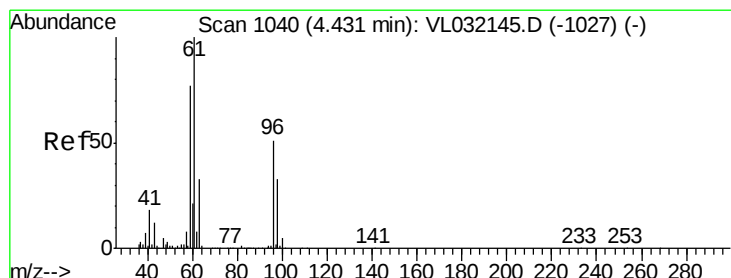
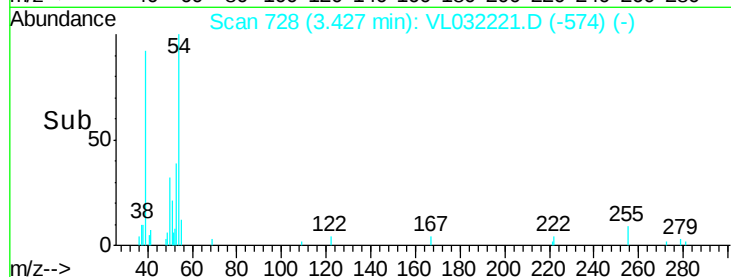
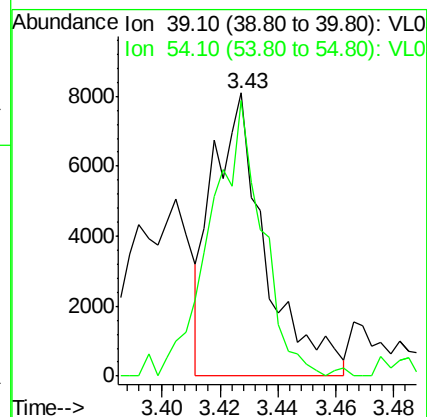
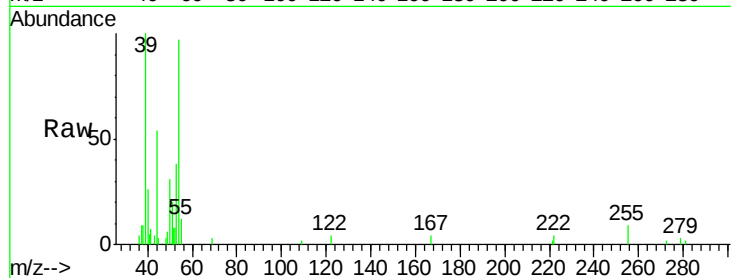
54 0.0 75.8 113.6#

Manual Integrations

APPROVED

MMDadoda

7/9/2018 10:47:49 AM



#17

tert-Butyl alcohol

Concen: 0.08 ppbv m

RT: 4.47 min Scan# 1052

Delta R.T. 0.03 min

Lab File: VL032221.D

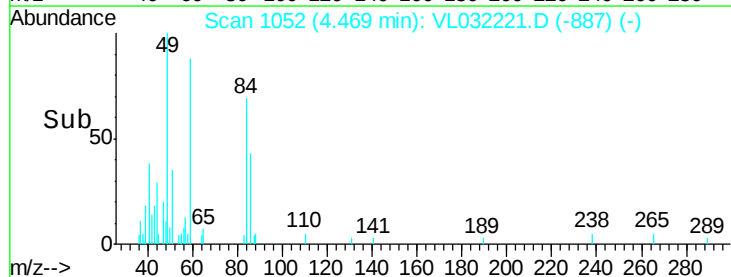
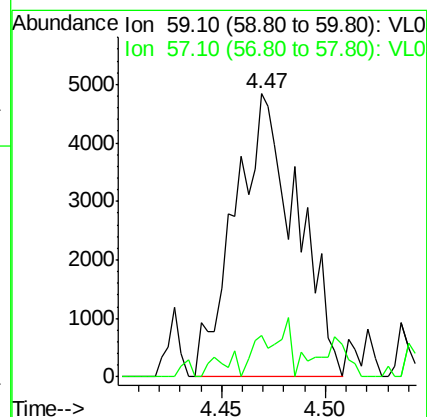
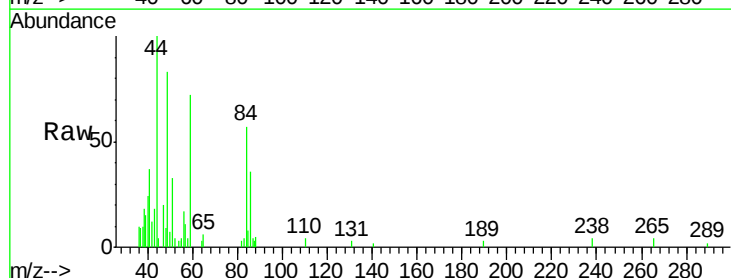
Acq: 6 Jul 2018 2:30

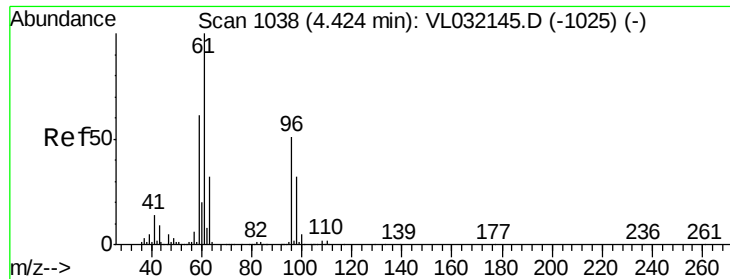
Tgt Ion: 59 Resp: 10056

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#





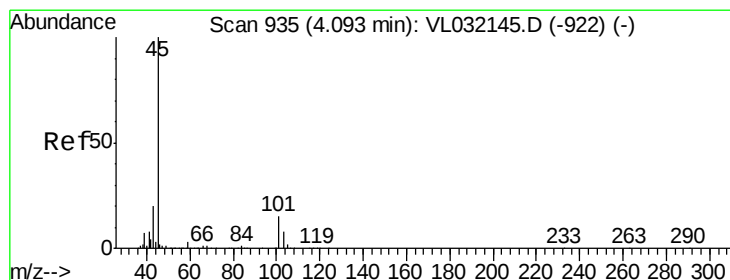
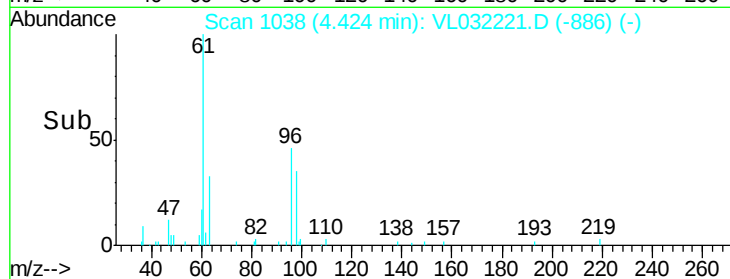
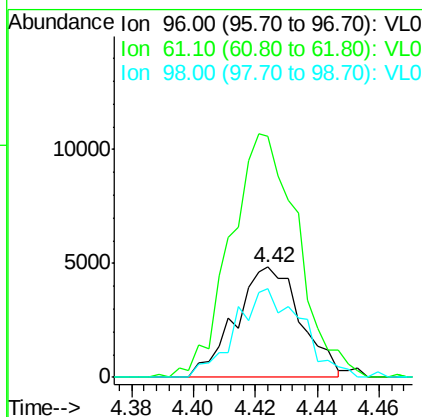
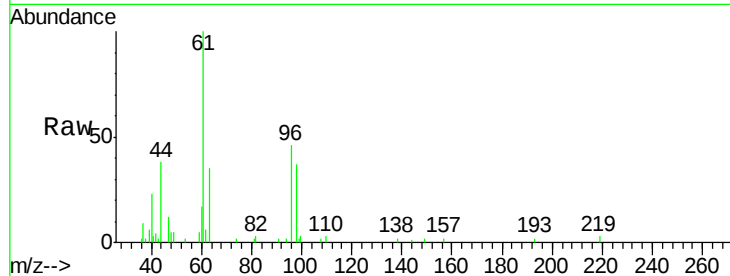
#18
 1,1-Dichloroethene
 Concen: 0.10 ppbv
 RT: 4.42 min Scan# 1038
 Delta R.T. -0.01 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
96	100		
61	211.8	154.1	231.1
98	80.8	50.3	75.5#

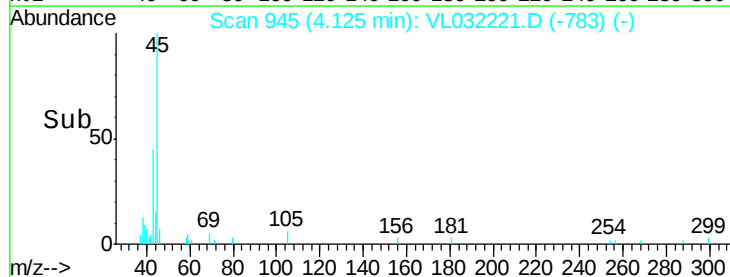
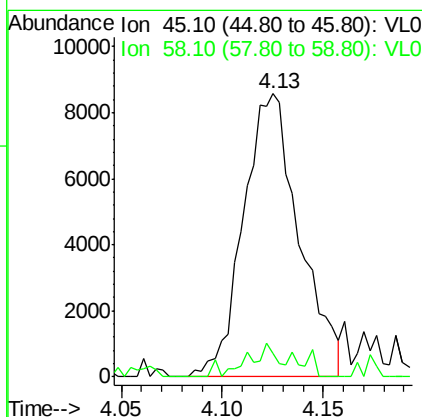
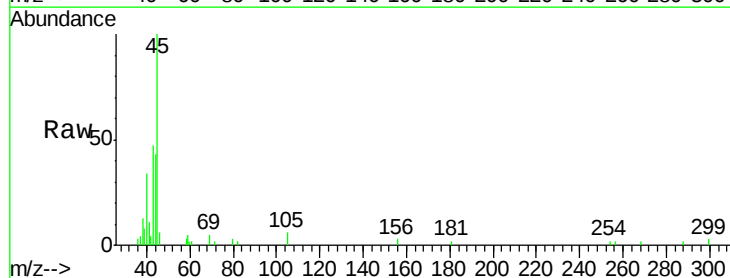
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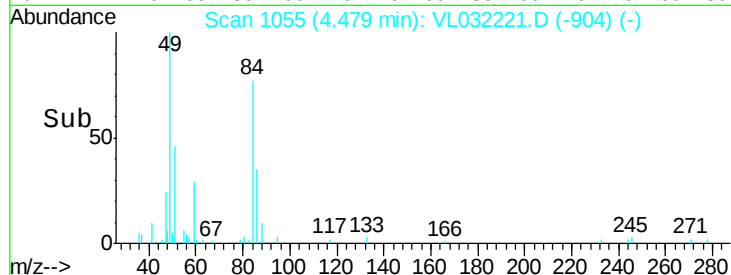
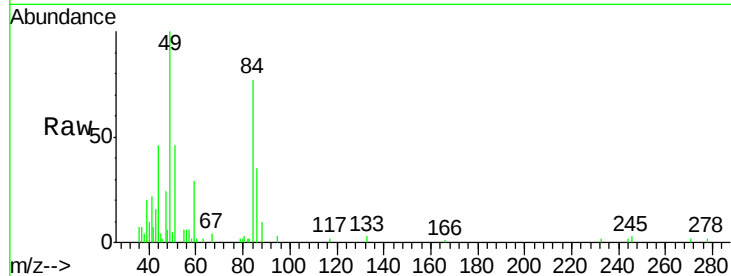
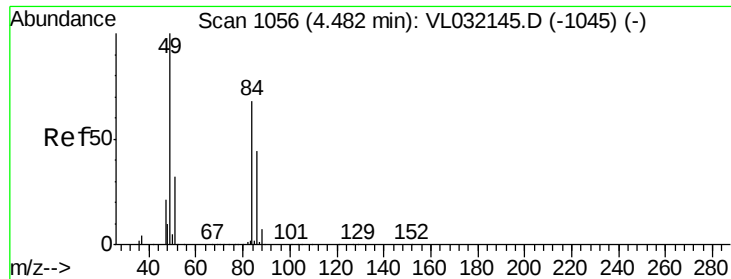
MMDadoda
 7/9/2018 10:47:49 AM



#19
 Isopropyl Alcohol
 Concen: 0.10 ppbv
 RT: 4.13 min Scan# 945
 Delta R.T. 0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Lower	Upper
45	100		
58	8.9	29.4	44.0#





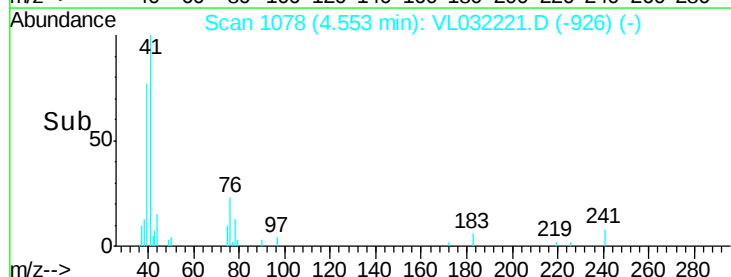
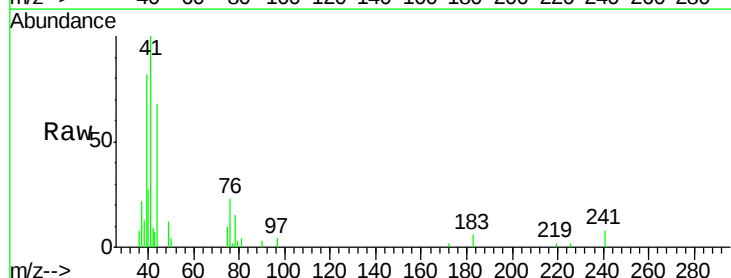
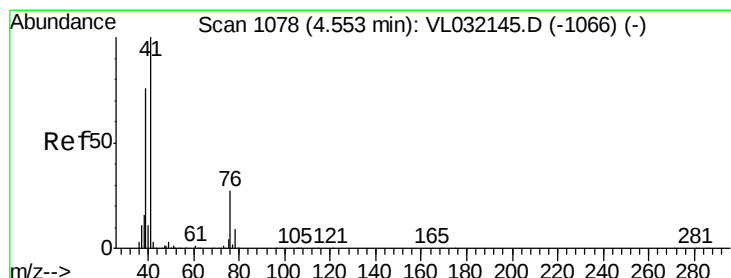
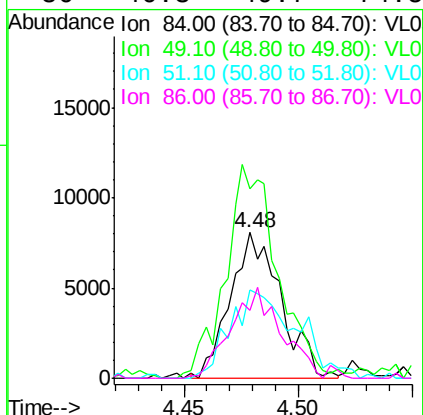
#20
Methvlene Chloride
Concen: 0.18 ppbv m
RT: 4.48 min Scan# 1055
Delta R.T. -0.01 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tot Ion	Ratio	Lower	Upper
84	100		
49	130.5	119.6	179.4
51	60.3	36.3	54.5#
86	46.3	49.7	74.5#

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

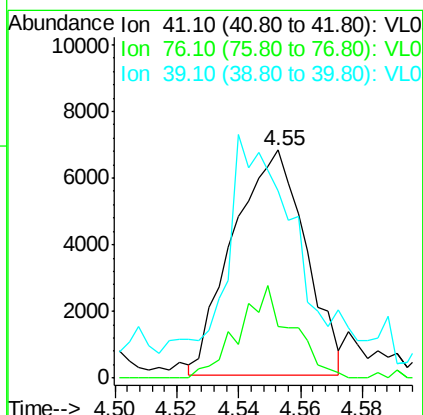
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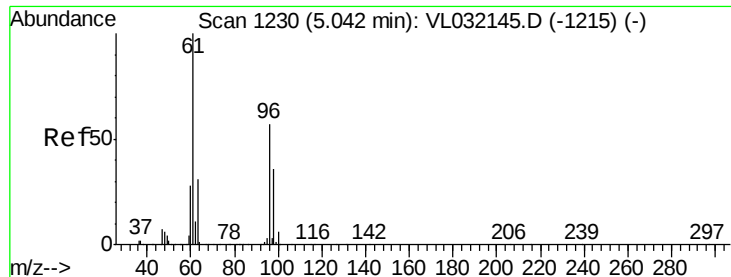
MMDadoda
7/9/2018 10:47:49 AM



#21
Allyl Chloride
Concen: 0.08 ppbv
RT: 4.55 min Scan# 1078
Delta R.T. -0.01 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Lower	Upper
41	100		
76	30.4	22.5	33.7
39	96.5	60.5	90.7#





#22

trans-1,2-Dichloroethene

Concen: 0.10 ppbv m

RT: 5.04 min Scan# 1228

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

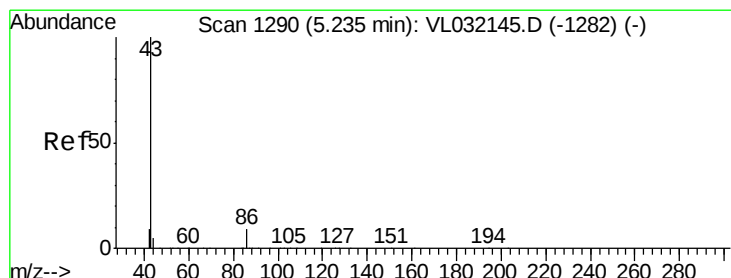
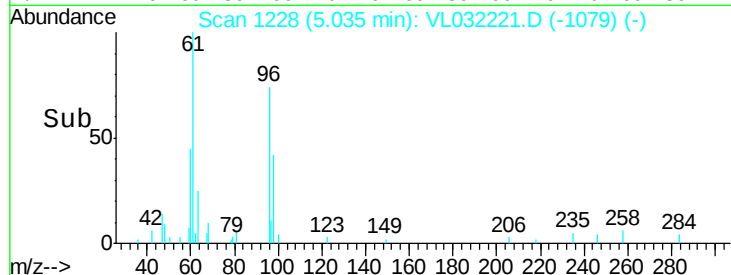
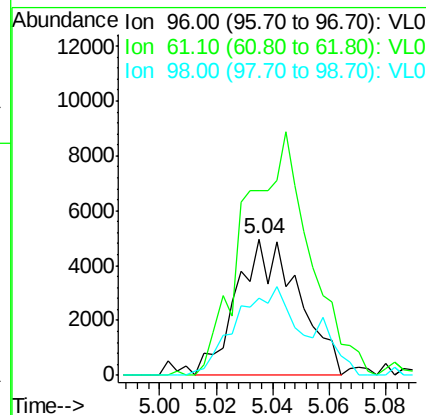
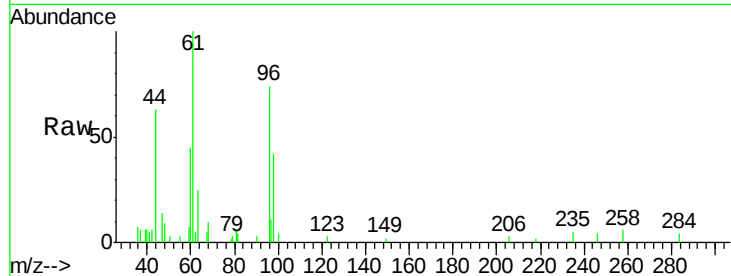
ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion:	96	Resp:	7583
Ion	Ratio	Lower	Upper
96	100		
61	135.1	135.2	202.8#
98	56.3	49.7	74.5

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7/9/2018 10:47:49 AM



#23

Vinyl Acetate

Concen: 0.08 ppbv

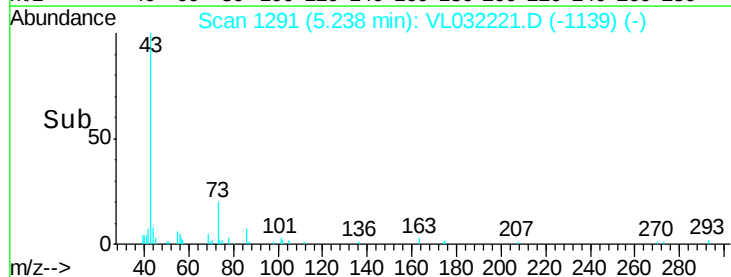
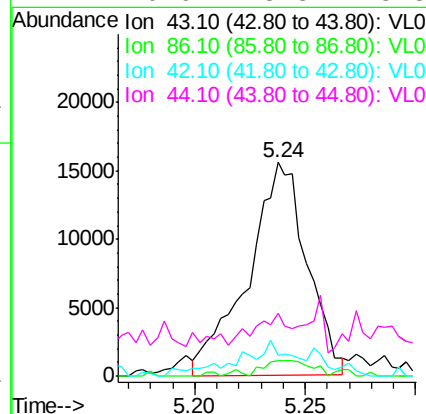
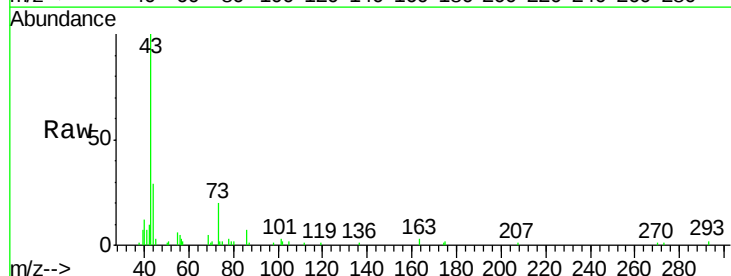
RT: 5.24 min Scan# 1291

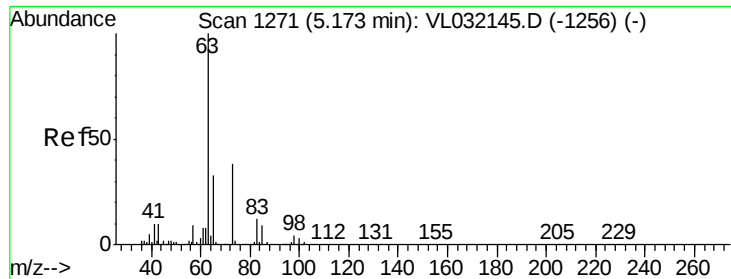
Delta R.T. -0.01 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Tgt Ion:	43	Resp:	28993
Ion	Ratio	Lower	Upper
43	100		
86	7.5	6.2	9.4
42	6.2	6.9	10.3#
44	9.9	3.8	5.8#





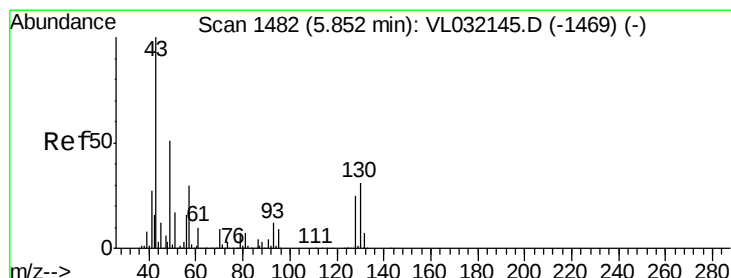
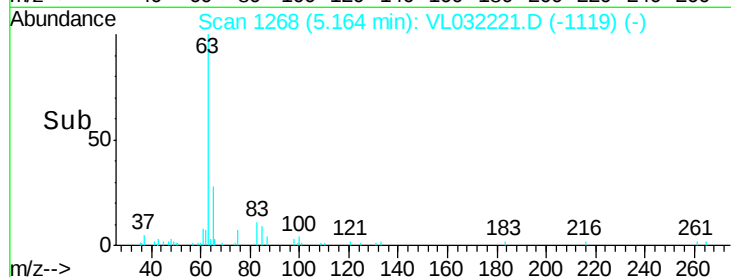
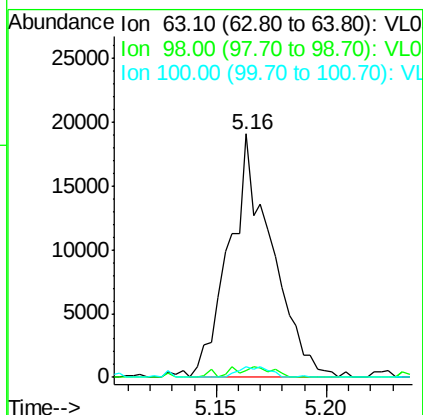
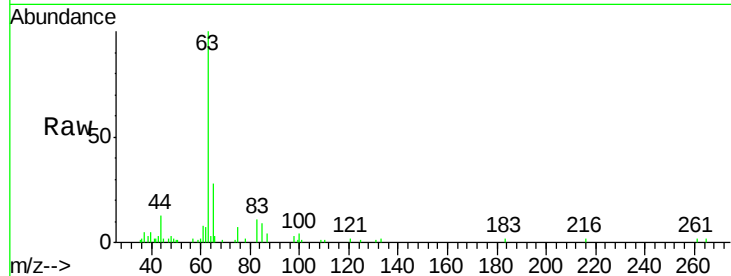
#24
 1,1-Dichloroethane
 Concen: 0.12 ppbv m
 RT: 5.16 min Scan# 1268
 Delta R.T. -0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Tot Ion:	63	Resp:	25505
Ion Ratio	Lower	Upper	
63	100		
98	2.9	2.4	7.2
100	4.2	1.7	5.0

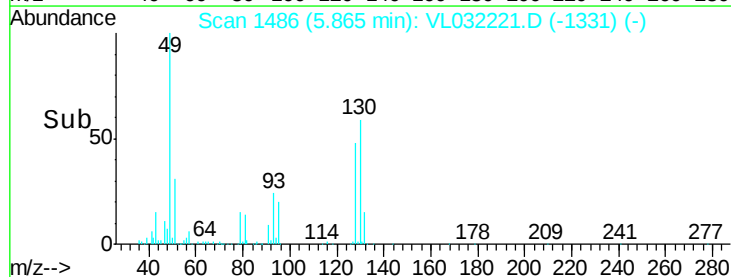
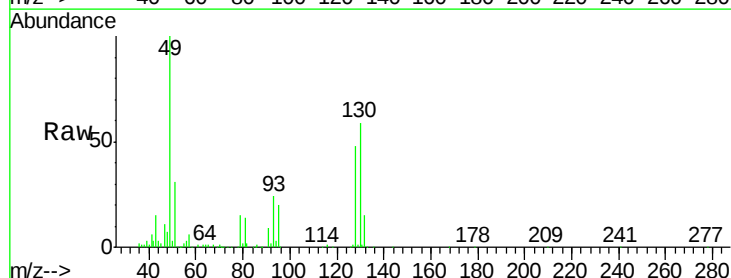
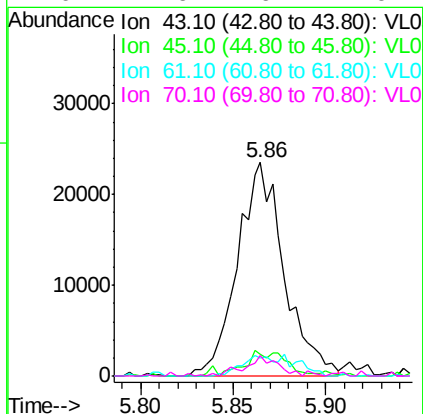
Manual Integrations
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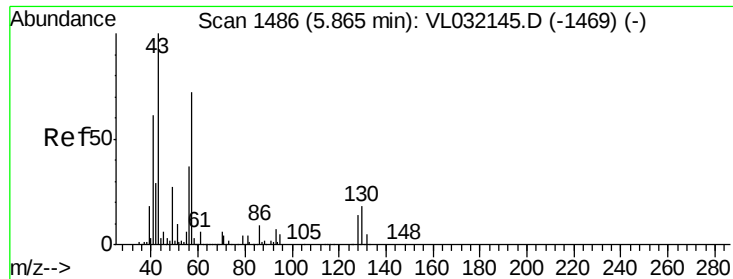
MMDadoda
 7/9/2018 10:47:49 AM



#25
 Ethyl Acetate
 Concen: 0.10 ppbv
 RT: 5.86 min Scan# 1486
 Delta R.T. -0.00 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Tgt Ion:	43	Resp:	41269
Ion Ratio	Lower	Upper	
43	100		
45	11.6	7.8	11.8
61	10.9	7.4	11.0
70	7.6	6.1	9.1





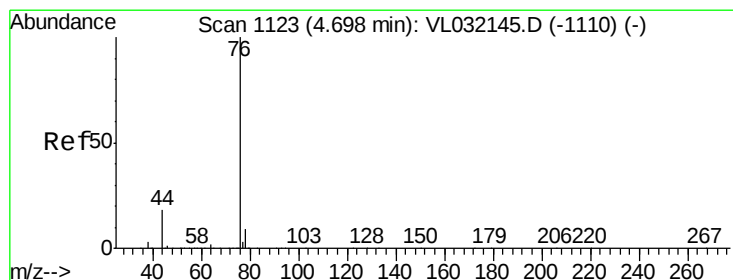
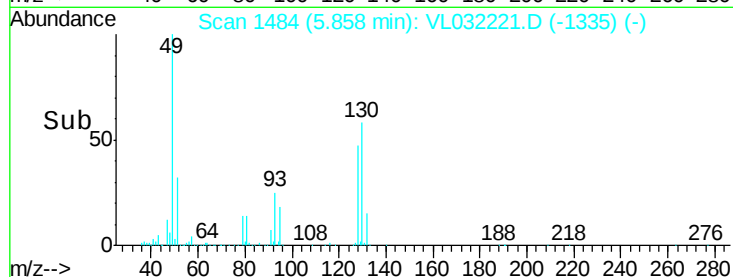
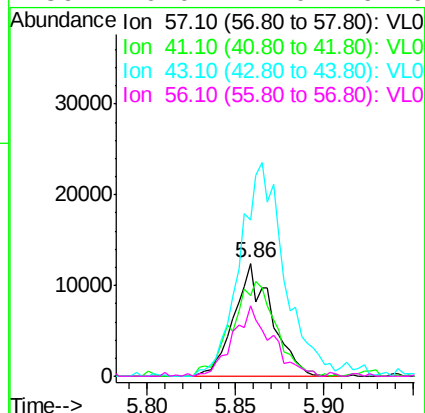
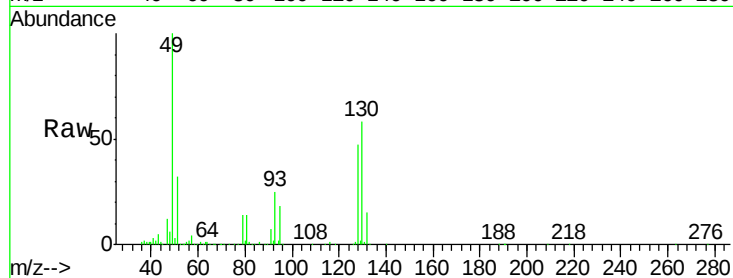
#26
Hexane
Concen: 0.10 ppbv m
RT: 5.86 min Scan# 1484
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
57	100		
41	98.4	68.6	103.0
43	235.2	168.6	252.8
56	0.0	41.0	61.6#

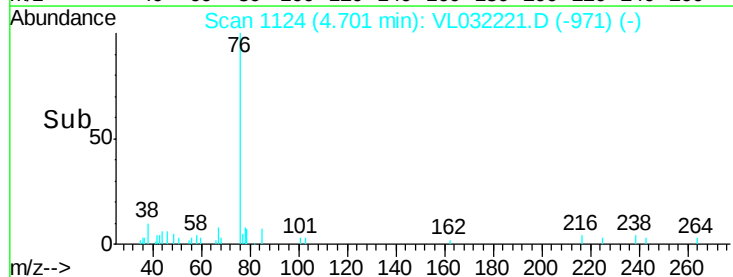
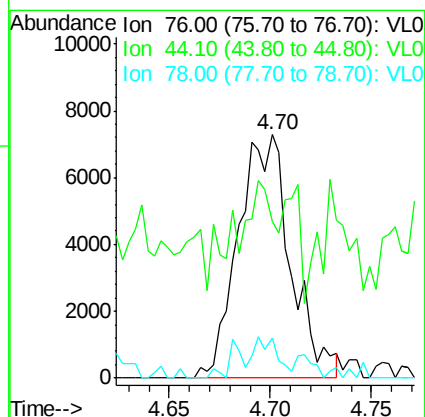
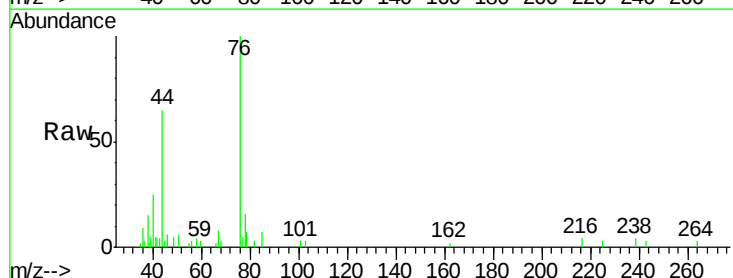
Manual Integrations
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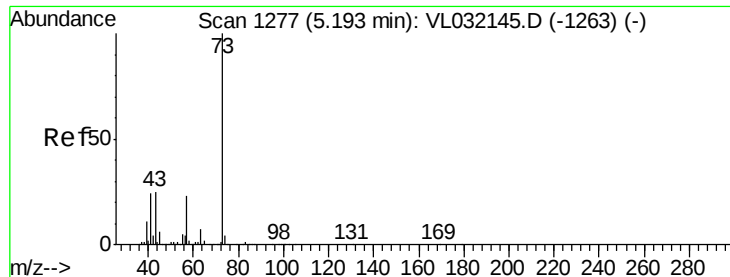
MMDadoda
7/9/2018 10:47:49 AM



#27
Carbon Disulfide
Concen: 0.07 ppbv m
RT: 4.70 min Scan# 1124
Delta R.T. -0.01 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Lower	Upper
76	100		
44	36.4	15.1	22.7#
78	16.7	7.2	10.8#





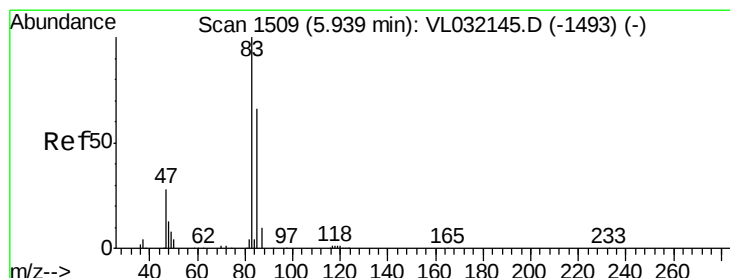
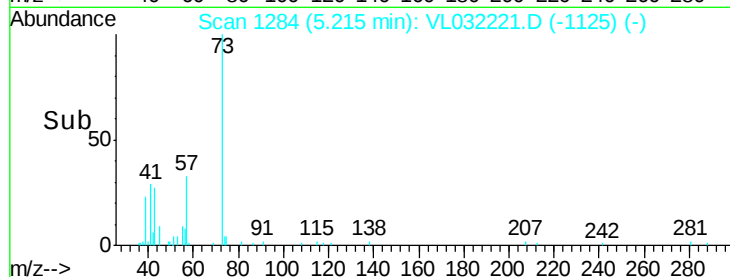
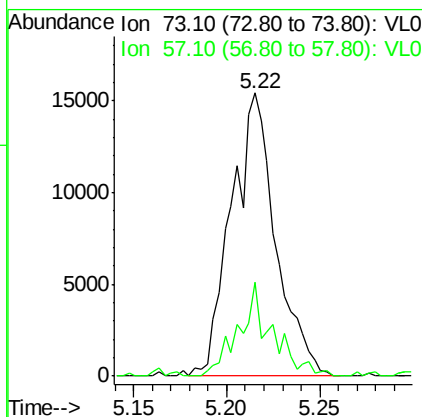
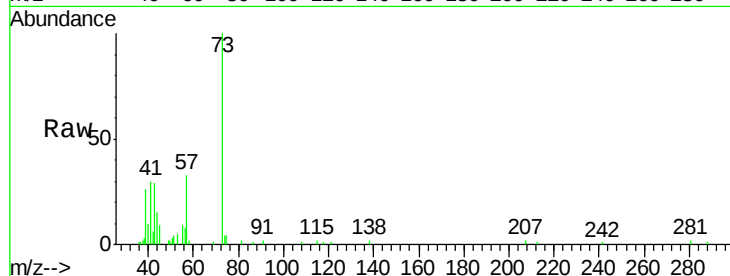
#28
Methvl tert-Butvl Ether
Concen: 0.08 ppbv m
RT: 5.22 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

Tot Ion: 73 Resp: 25564
Ion Ratio Lower Upper
73 100
57 1.2 18.6 27.8#

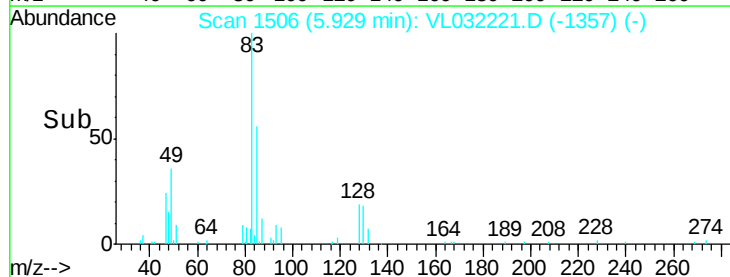
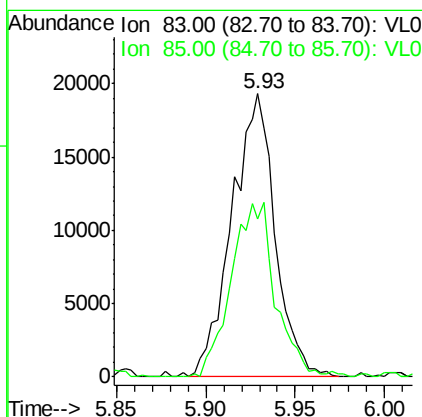
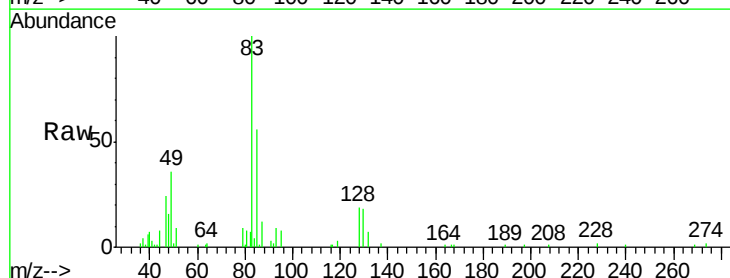
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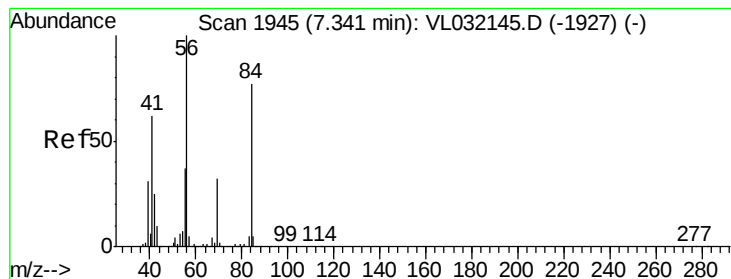
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#29
Chloroform
Concen: 0.12 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion: 83 Resp: 32706
Ion Ratio Lower Upper
83 100
85 55.8 51.6 77.4





#30

Cvclohexane

Concen: 0.15 ppbv m

RT: 7.33 min Scan# 1941

Delta R.T. -0.03 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

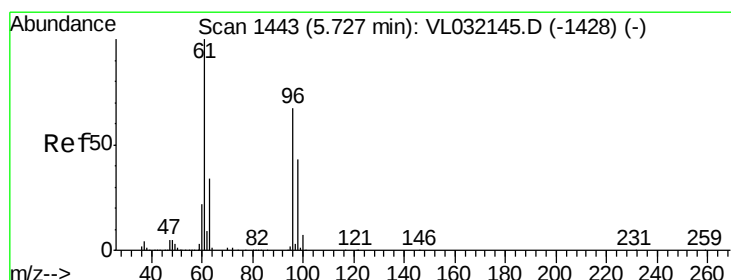
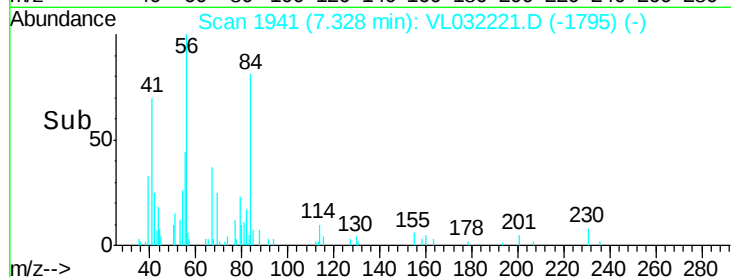
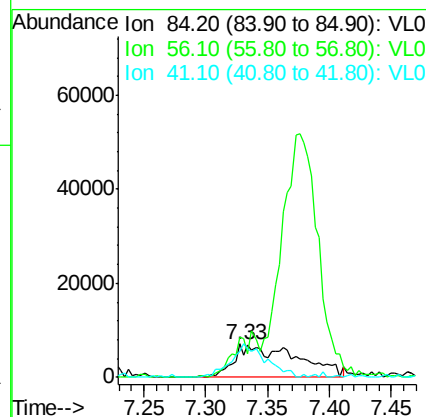
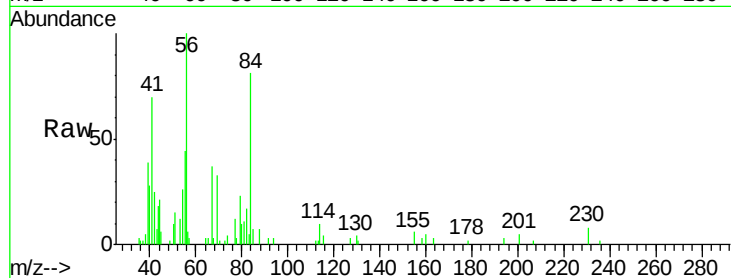
ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion:	84	Resp:	25123
Ion Ratio	Lower	Upper	
84	100		
56	0.0	109.1	163.7#
41	0.0	64.6	96.8#

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#31

cis-1,2-Dichloroethene

Concen: 0.09 ppbv

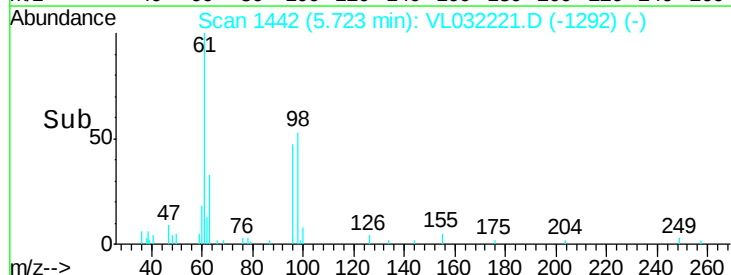
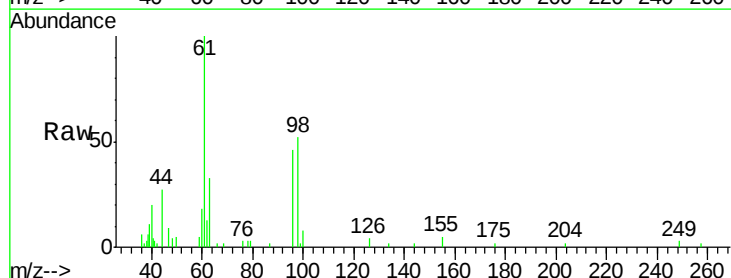
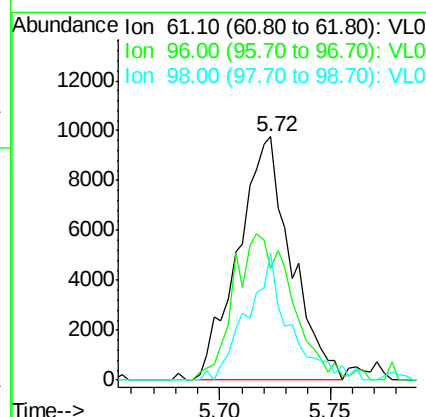
RT: 5.72 min Scan# 1442

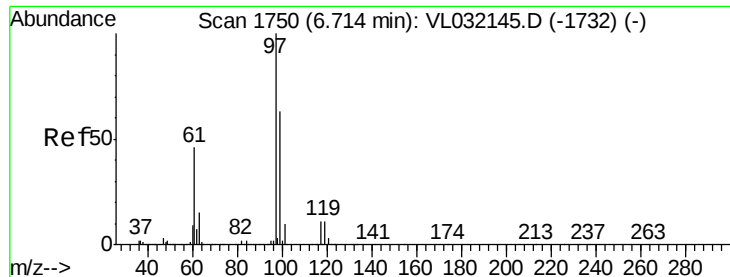
Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Tgt Ion:	61	Resp:	16275
Ion Ratio	Lower	Upper	
61	100		
96	46.0	54.2	81.4#
98	52.2	34.6	52.0#





#32

1,1,1-Trichloroethane

Concen: 0.10 ppbv m

RT: 6.70 min Scan# 1746

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

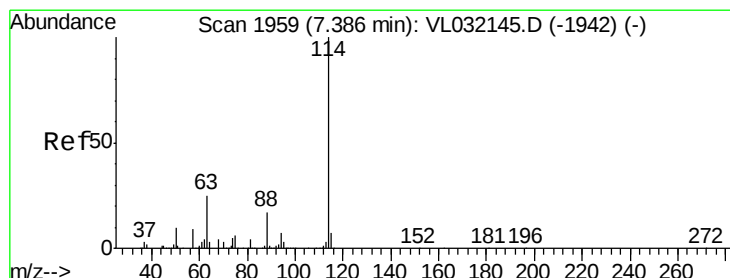
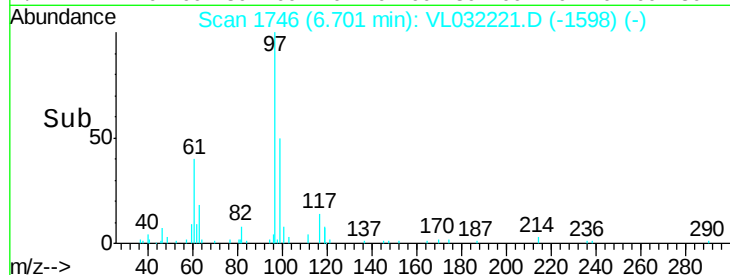
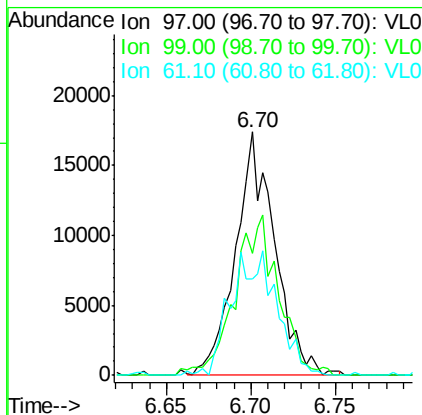
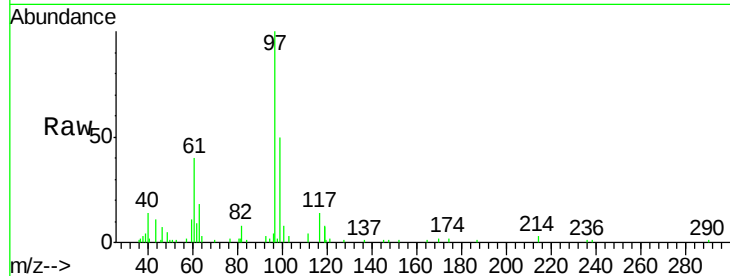
ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion:	97	Resp:	27934
Ion Ratio	Lower	Upper	
97	100		
99	73.2	51.3	76.9
61	59.7	38.4	57.6#

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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

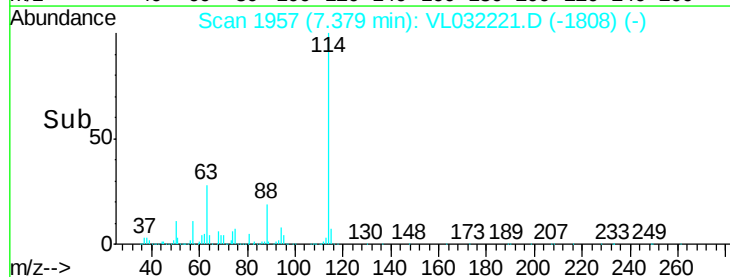
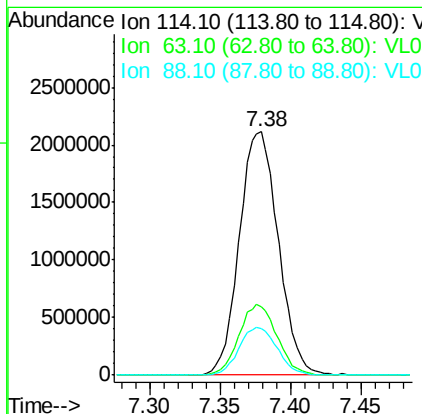
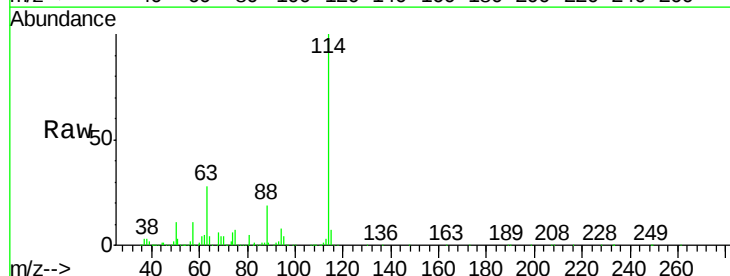
RT: 7.38 min Scan# 1957

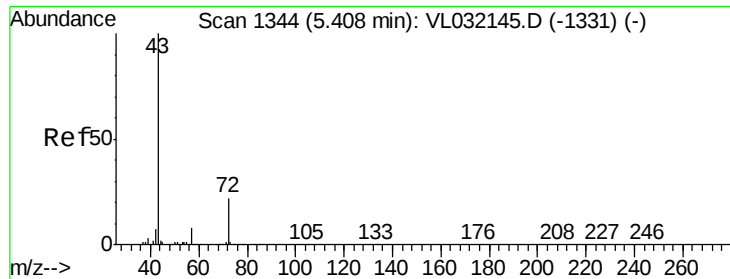
Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Tgt Ion:	114	Resp:	4096111
Ion Ratio	Lower	Upper	
114	100		
63	28.5	19.1	28.7
88	19.4	13.9	20.9





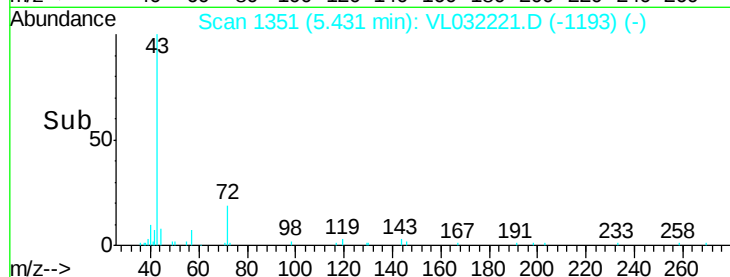
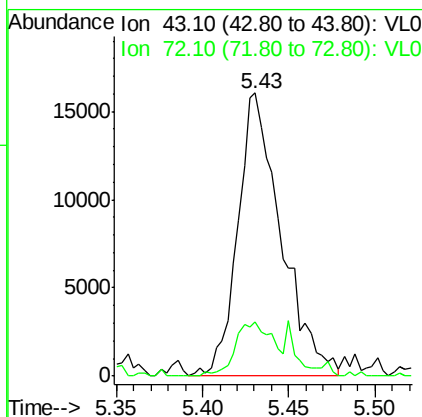
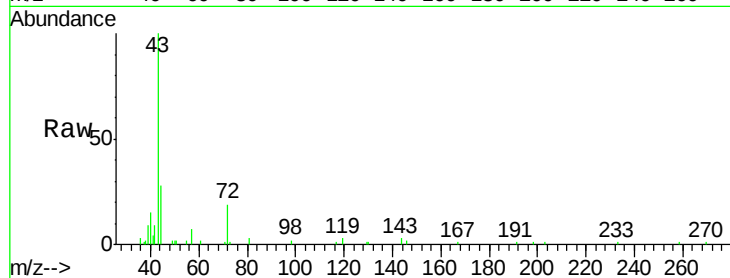
#34
2-Butanone
Concen: 0.11 ppbv m
RT: 5.43 min Scan# 1351
Delta R.T. 0.01 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

Tot Ion: 43 Resp: 28074
Ion Ratio Lower Upper
43 100
72 0.0 18.4 27.6#

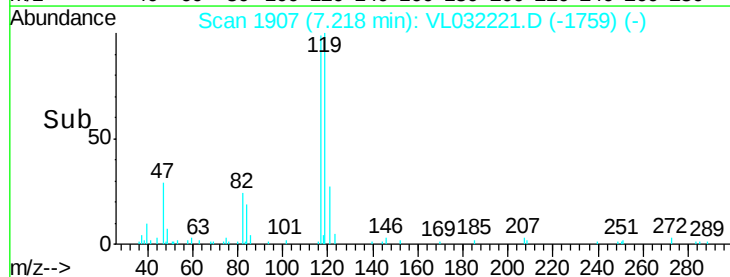
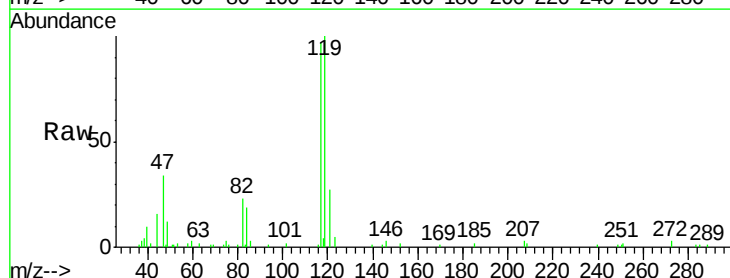
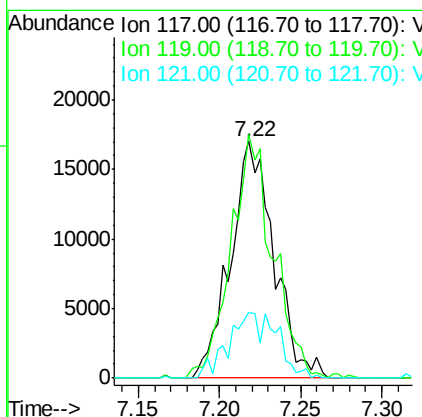
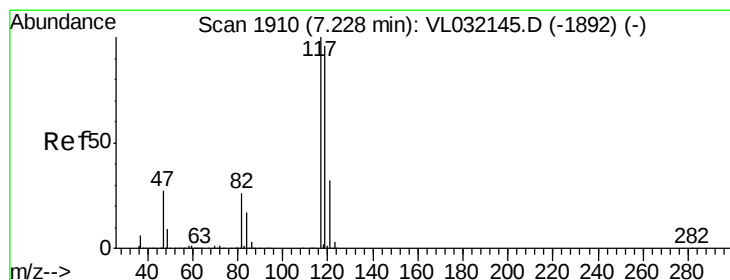
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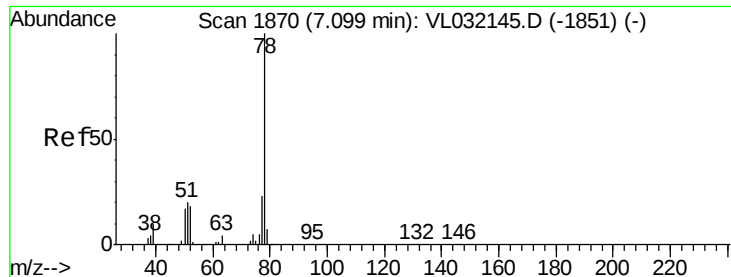
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#35
Carbon Tetrachloride
Concen: 0.11 ppbv m
RT: 7.22 min Scan# 1907
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion: 117 Resp: 31490
Ion Ratio Lower Upper
117 100
119 102.7 74.8 112.2
121 27.8 24.0 36.0





#36

Benzene

Concen: 0.10 ppbv

RT: 7.09 min Scan# 1868

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

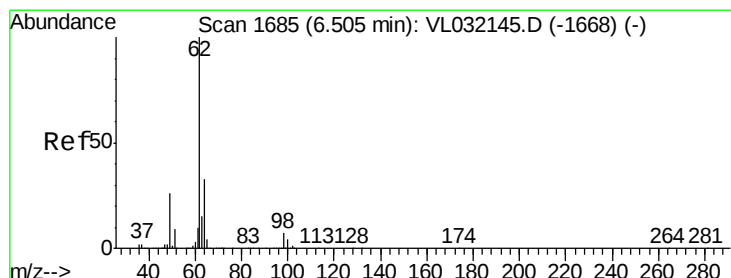
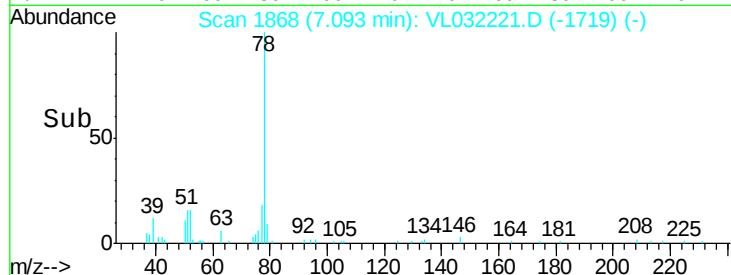
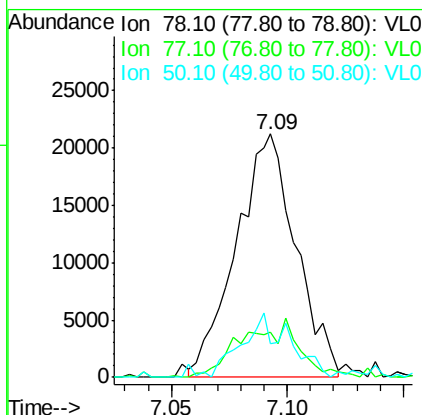
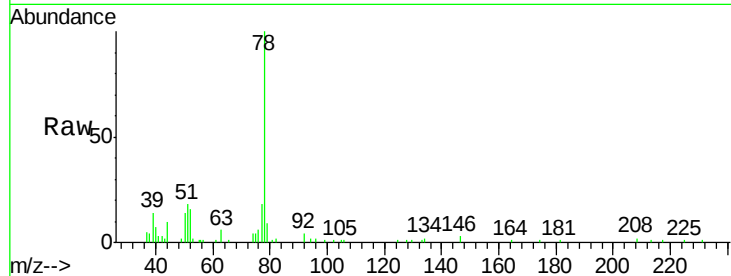
ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion:	78	Resp:	38088
Ion	Ratio	Lower	Upper
78	100		
77	19.0	17.7	26.5
50	12.0	14.0	21.0#

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#37

1,2-Dichloroethane

Concen: 0.14 ppbv m

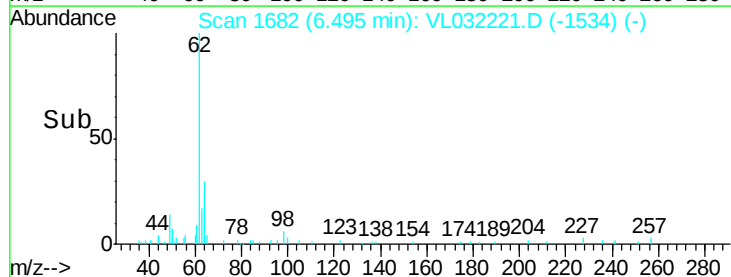
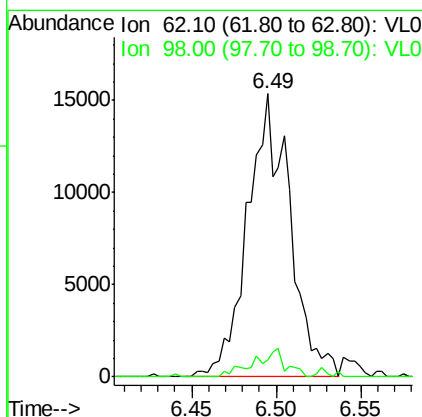
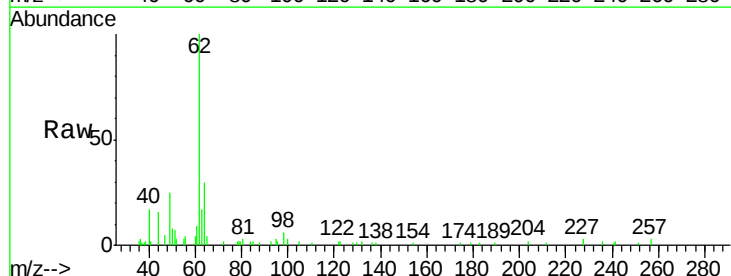
RT: 6.49 min Scan# 1682

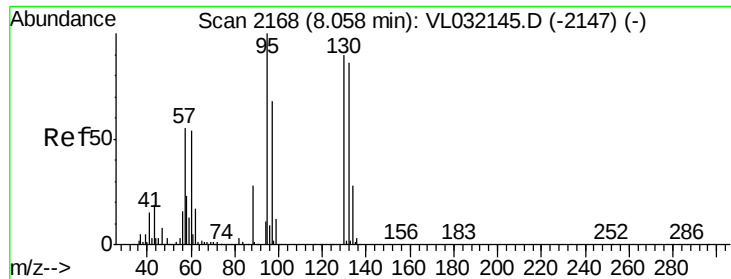
Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Tgt Ion:	62	Resp:	26690
Ion	Ratio	Lower	Upper
62	100		
98	8.1	5.8	8.6





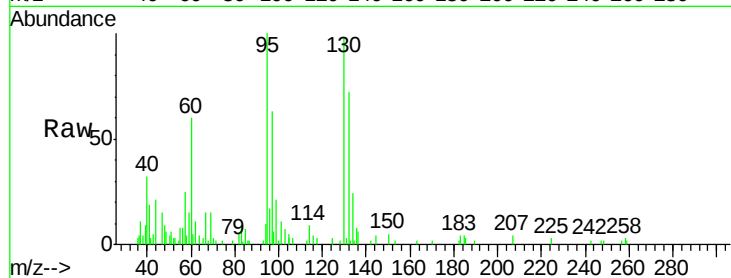
#38
 Trichloroethene
 Concen: 0.10 ppbv
 RT: 8.05 min Scan# 2165
 Delta R.T. -0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
130	100		
95	101.7	88.1	132.1
132	75.1	74.6	112.0
97	60.7	58.6	88.0

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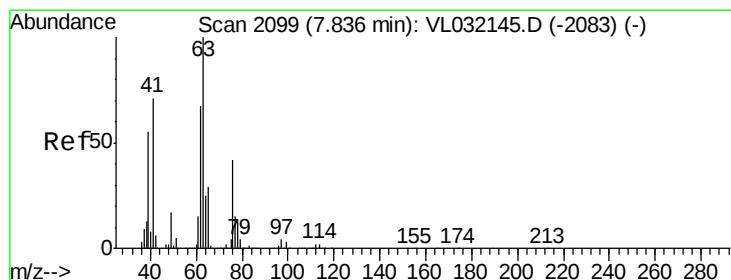
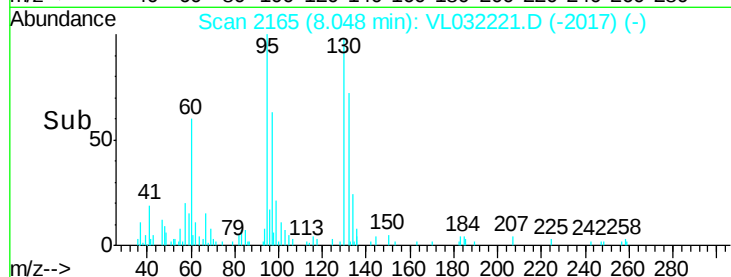
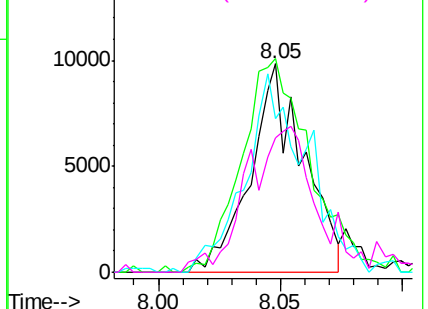


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

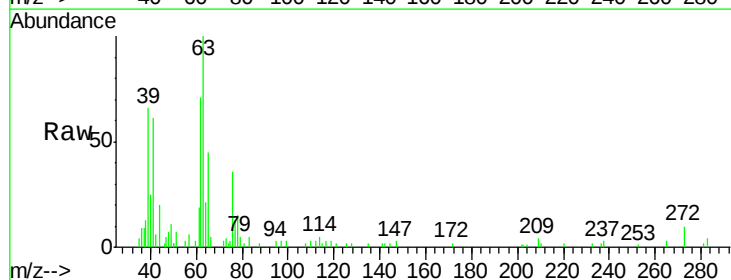
Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39
 1,2-Dichloropropane
 Concen: 0.12 ppbv m
 RT: 7.83 min Scan# 2096
 Delta R.T. -0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

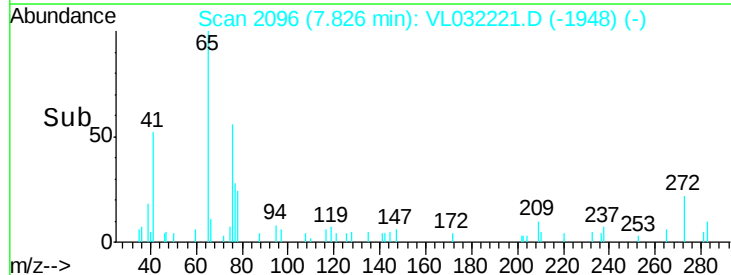
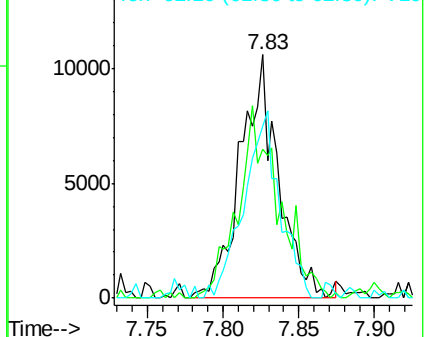
Tgt Ion	Ratio	Lower	Upper
63	100		
41	61.1	53.3	79.9
62	70.5	54.8	82.2

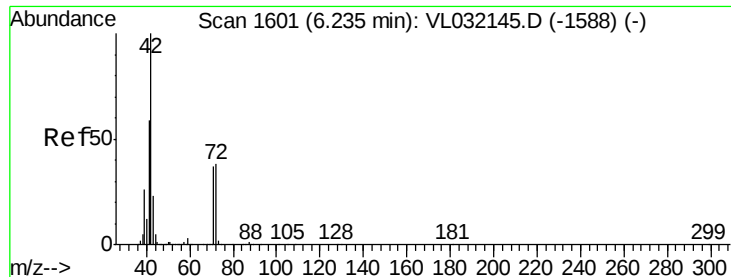


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.08 ppbv m

RT: 6.28 min Scan# 1615

Delta R.T. 0.03 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

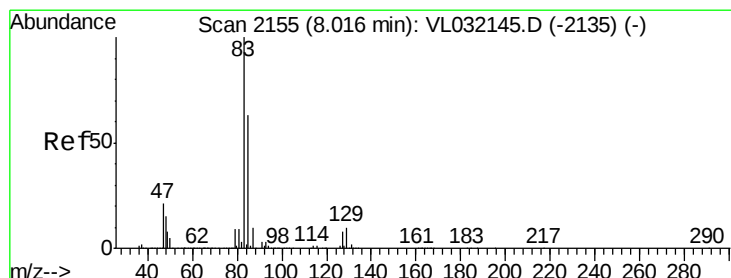
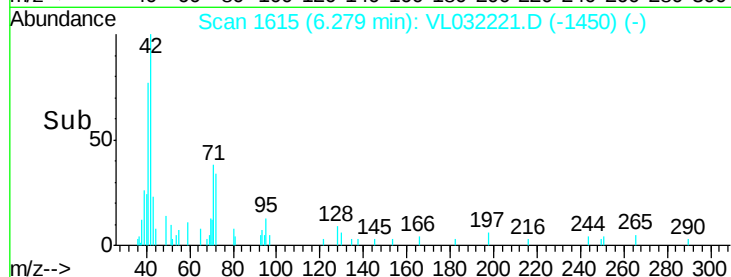
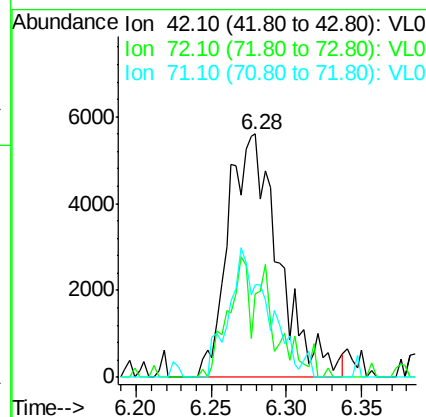
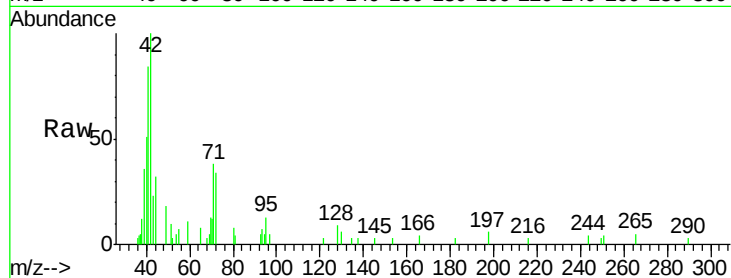
ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion:	42	Resp:	13162
Ion Ratio	Lower	Upper	
42	100		
72	0.0	31.1	46.7#
71	0.0	29.5	44.3#

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#42

Bromodichloromethane

Concen: 0.10 ppbv

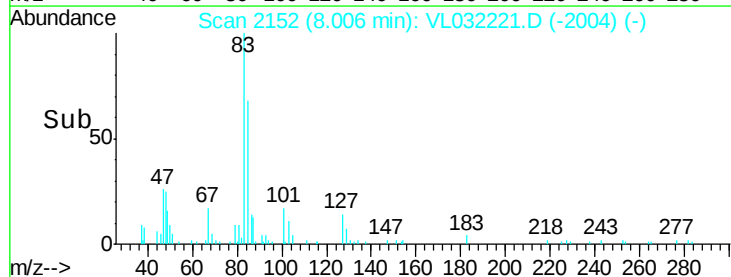
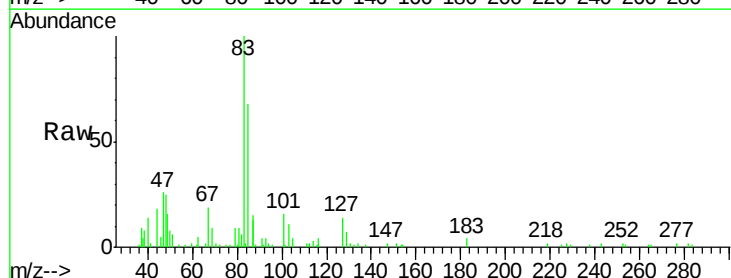
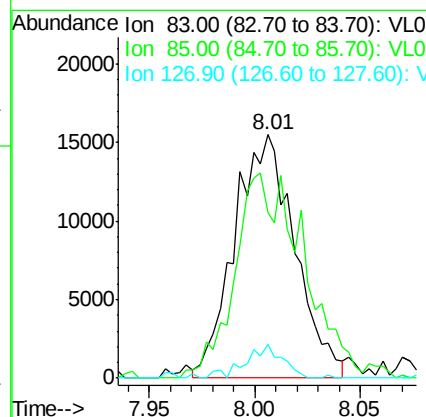
RT: 8.01 min Scan# 2152

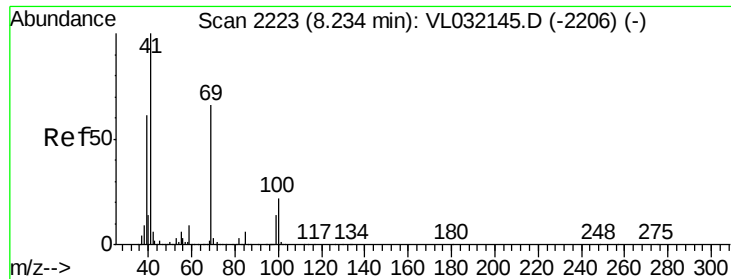
Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Tgt Ion:	83	Resp:	30865
Ion Ratio	Lower	Upper	
83	100		
85	66.6	52.6	79.0
127	14.1	6.5	9.7#





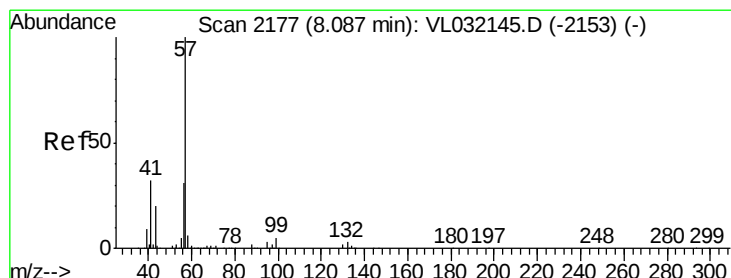
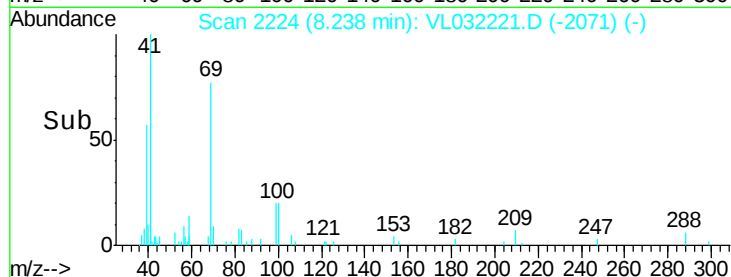
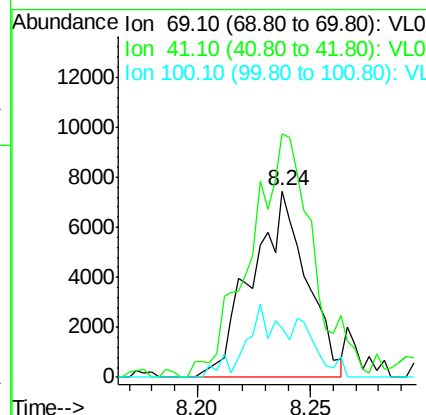
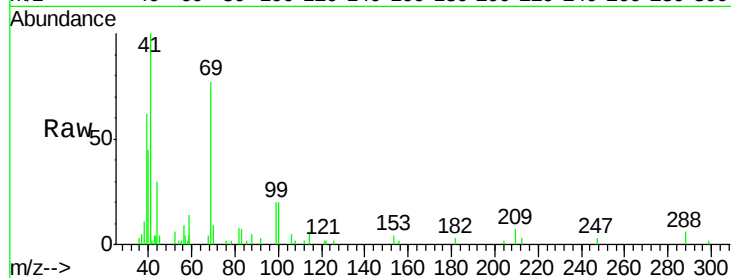
#43
Methvl Methacrilate
Concen: 0.08 ppbv m
RT: 8.24 min Scan# 2224
Delta R.T. -0.01 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.2	177.4#
100	0.0	27.4	41.2#

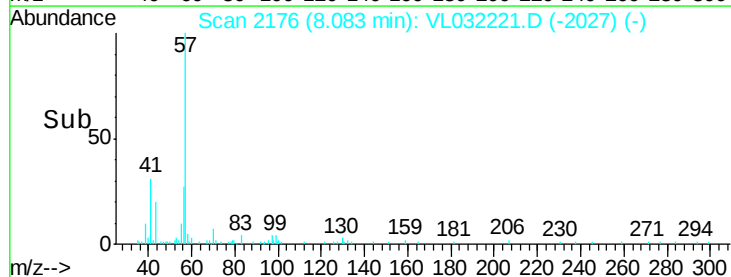
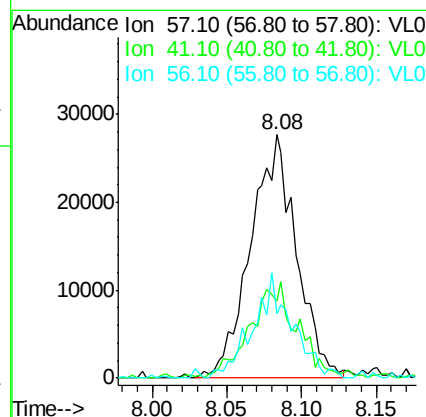
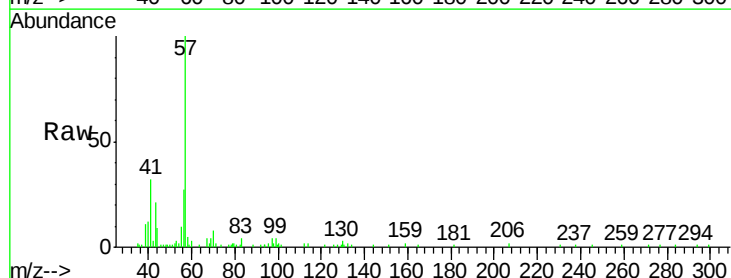
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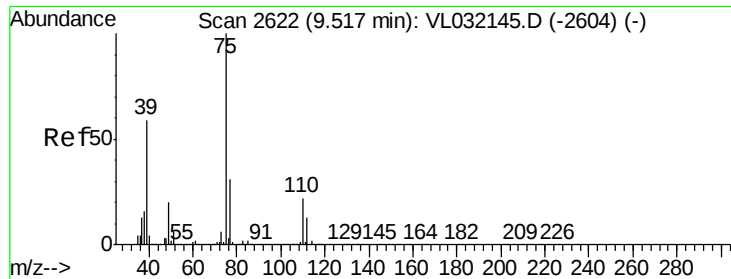
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.09 ppbv m
RT: 8.08 min Scan# 2176
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	24.3	36.5#
56	37.2	25.1	37.7





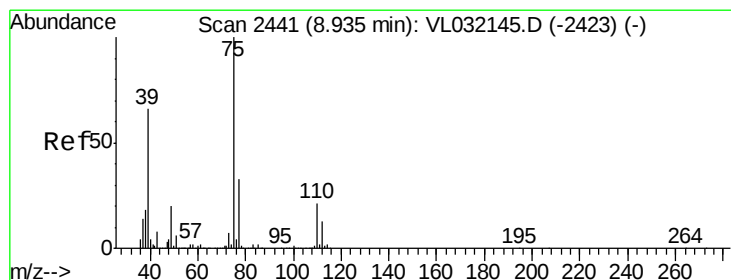
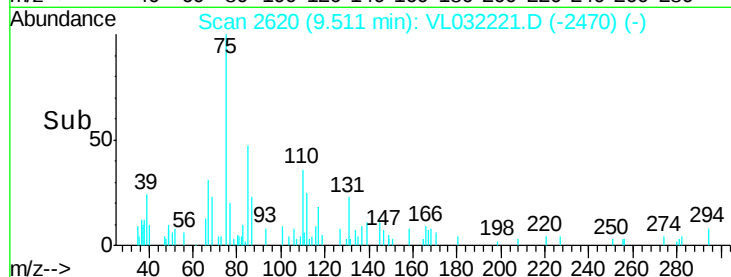
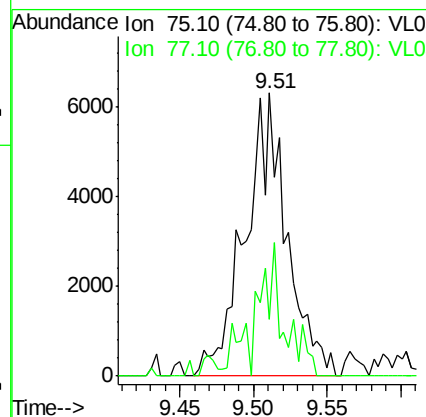
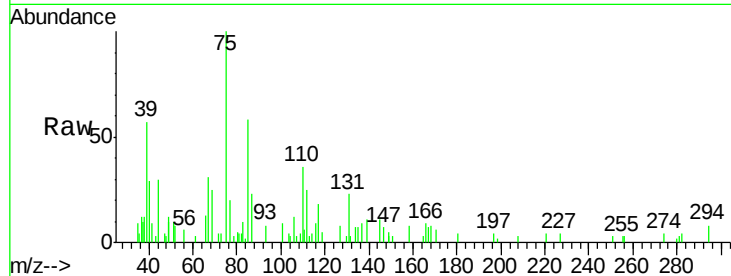
#45
 t-1,3-Dichloropropene
 Concen: 0.06 ppbv m
 RT: 9.51 min Scan# 2620
 Delta R.T. -0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Tot Ion: 75 Resp: 12406
 Ion Ratio Lower Upper
 75 100
 77 20.2 25.6 38.4#

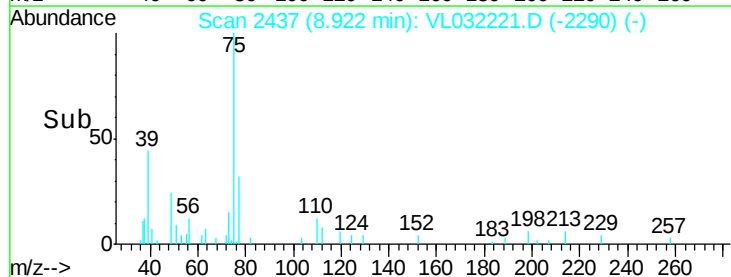
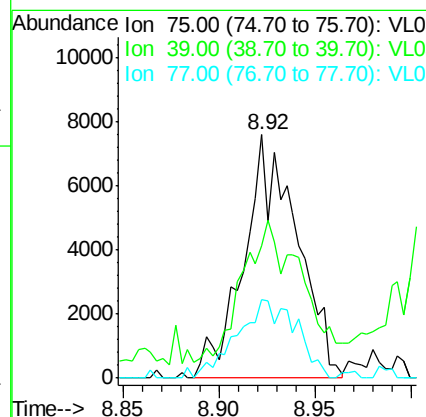
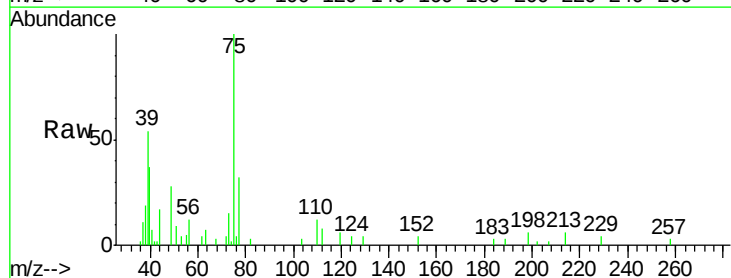
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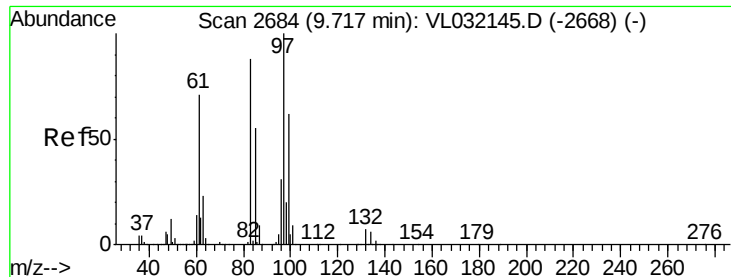
MMDadoda
 7/9/2018 10:47:49 AM



#46
 cis-1,3-Dichloropropene
 Concen: 0.06 ppbv m
 RT: 8.92 min Scan# 2437
 Delta R.T. -0.03 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Tgt Ion: 75 Resp: 14596
 Ion Ratio Lower Upper
 75 100
 39 54.4 51.9 77.9
 77 32.4 24.3 36.5





#47

1,1,2-Trichloroethane

Concen: 0.12 ppbv m

RT: 9.71 min Scan# 2683

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

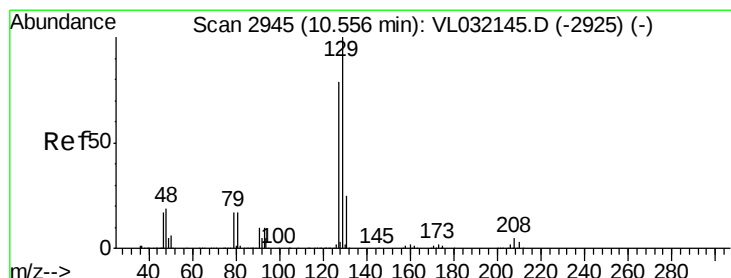
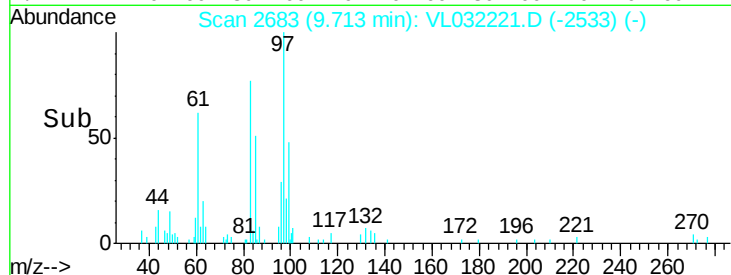
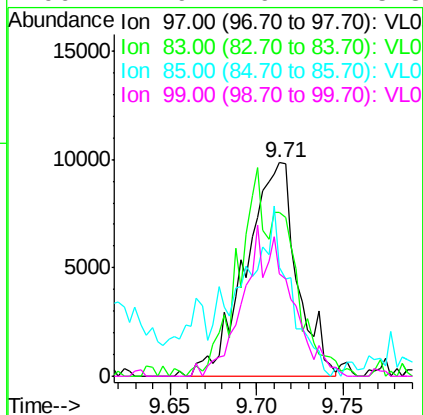
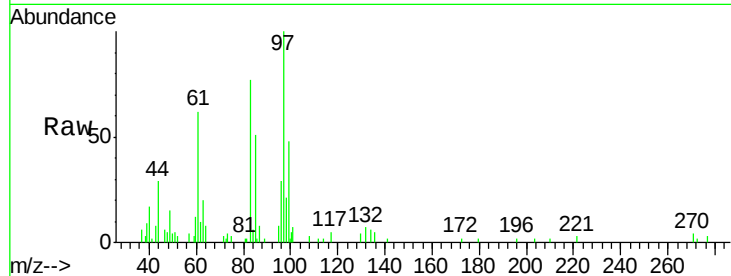
ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
97	100		
83	76.9	71.0	106.4
85	51.0	44.2	66.4
99	47.9	49.2	73.8#

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#48

Dibromochloromethane

Concen: 0.08 ppbv m

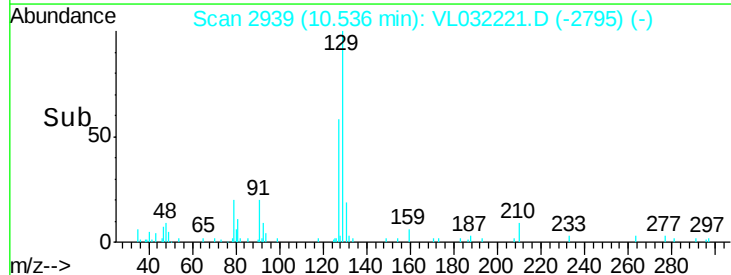
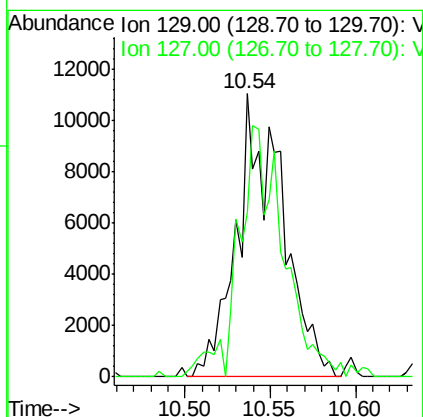
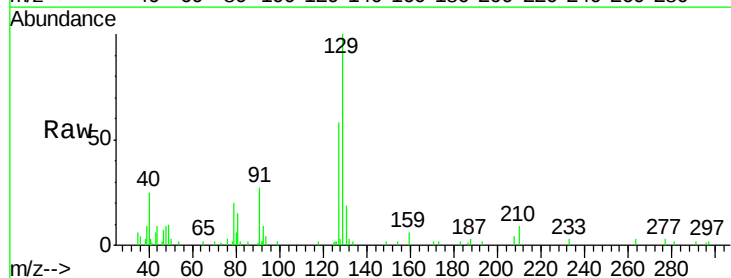
RT: 10.54 min Scan# 2939

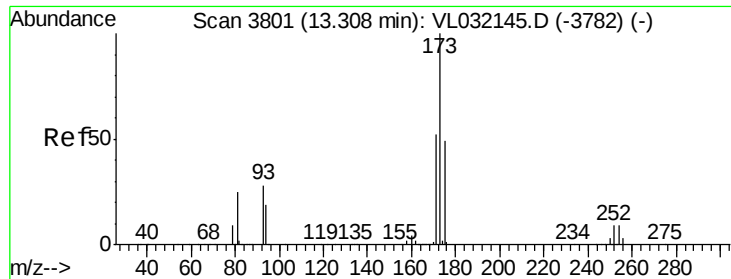
Delta R.T. -0.04 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.1	117.5#





#49

Bromoform

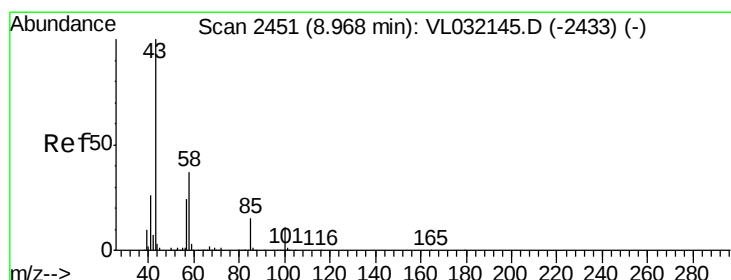
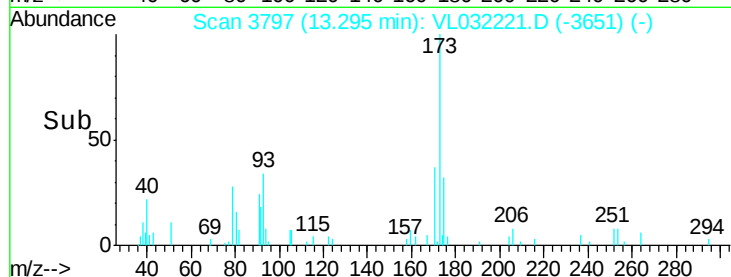
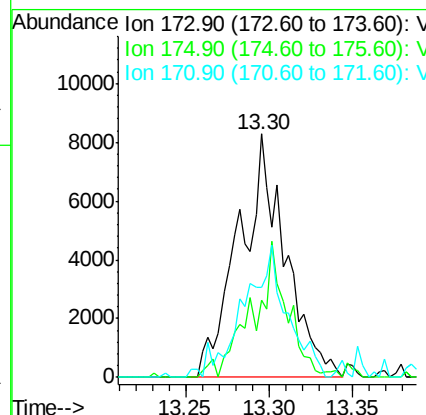
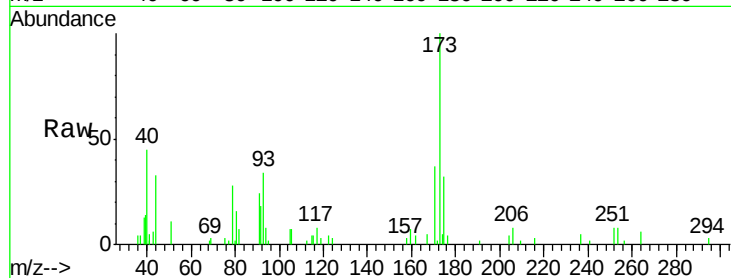
Concen: 0.08 ppbv m
 RT: 13.30 min Scan# 3797
 Delta R.T. -0.03 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	39.4	59.0#
171	0.0	41.8	62.8#

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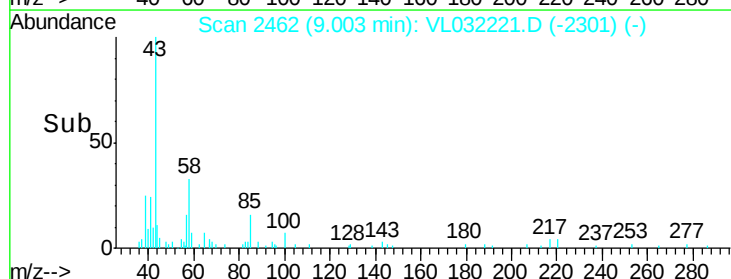
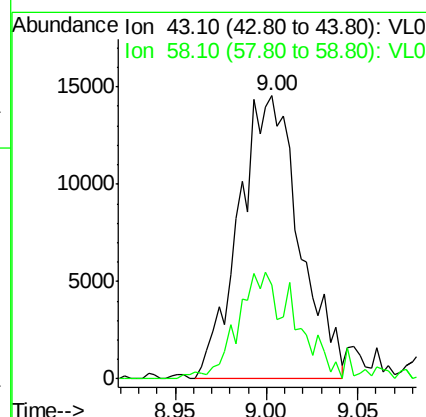
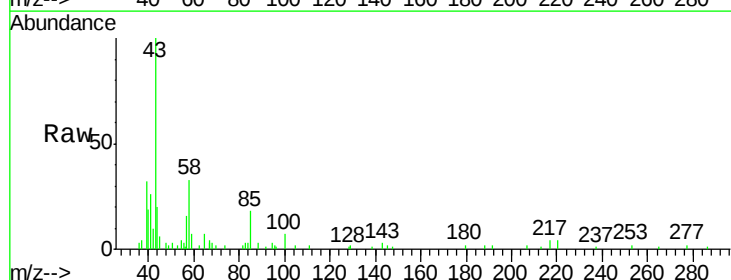


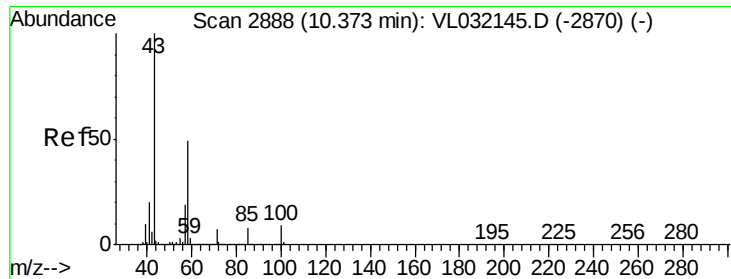
#50

4-Methyl-2-Pentanone

Concen: 0.08 ppbv m
 RT: 9.00 min Scan# 2462
 Delta R.T. 0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.8	44.6#





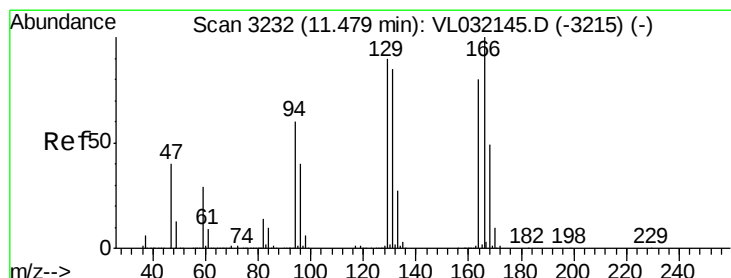
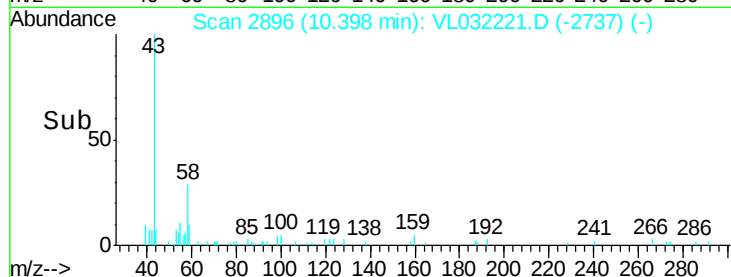
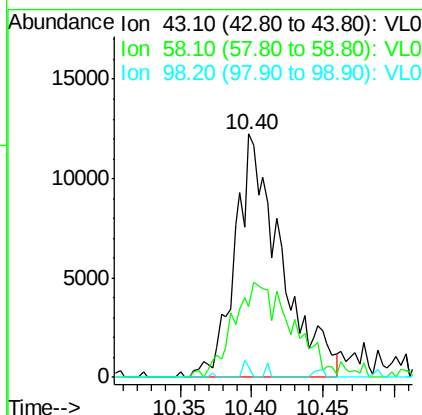
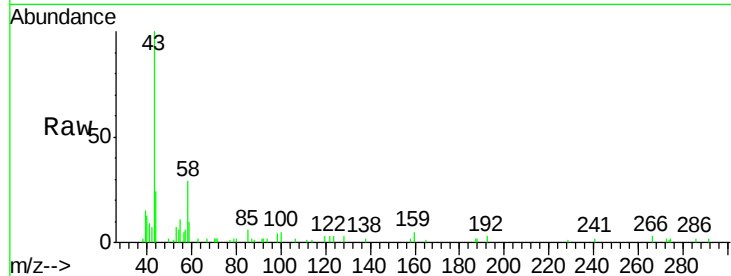
#51
2-Hexanone
Concen: 0.08 ppbv m
RT: 10.40 min Scan# 2896
Delta R.T. 0.01 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.6	60.8#
98	0.0	0.1	0.1#

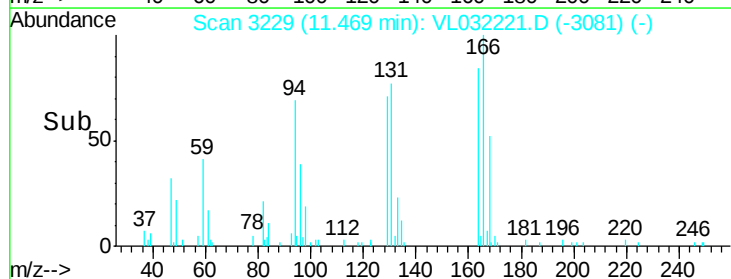
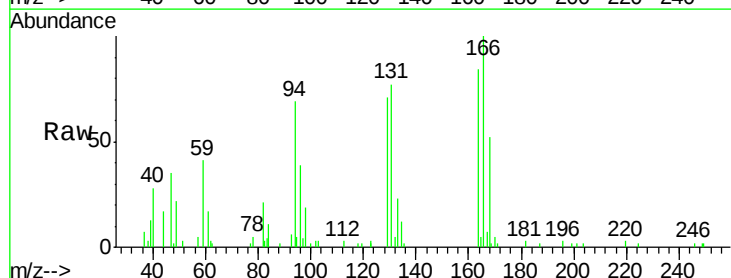
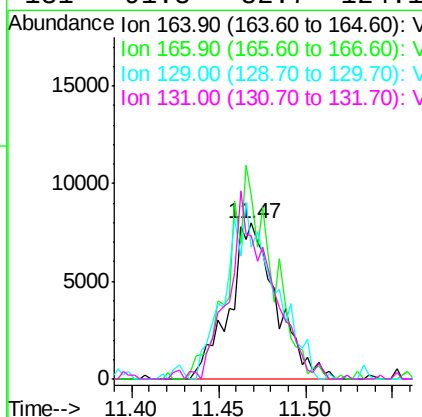
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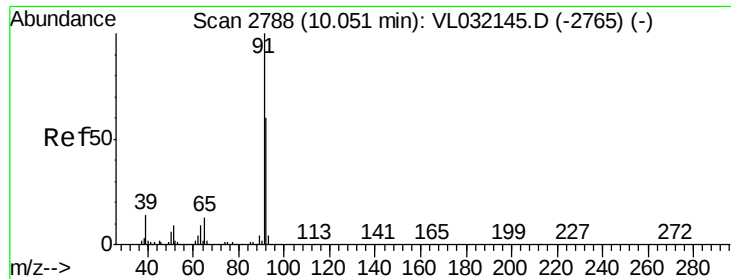
MMDadoda
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#52
Tetrachloroethene
Concen: 0.10 ppbv m
RT: 11.47 min Scan# 3229
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Lower	Upper
164	100		
166	118.6	100.6	151.0
129	84.7	84.0	126.0
131	91.8	82.7	124.1





#53

Toluene

Concen: 0.07 ppbv m

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion: 91 Resp: 35193

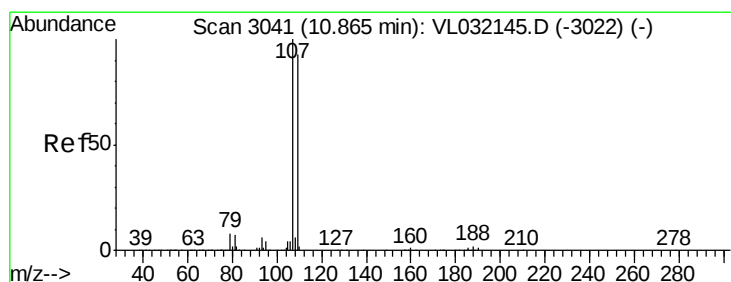
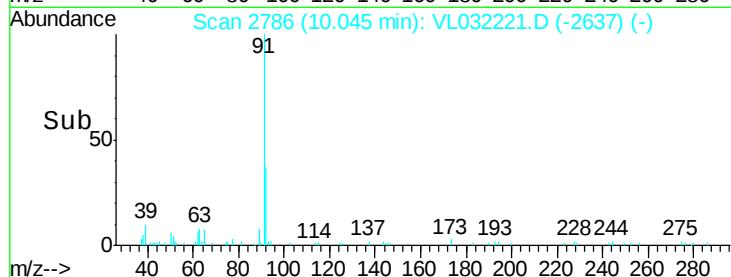
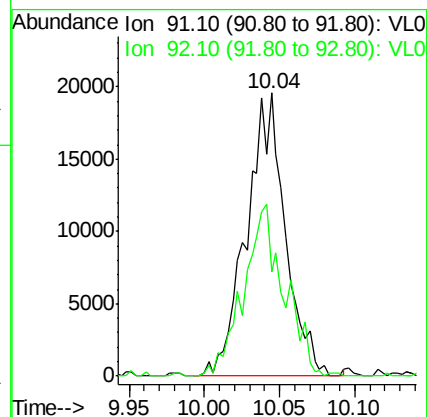
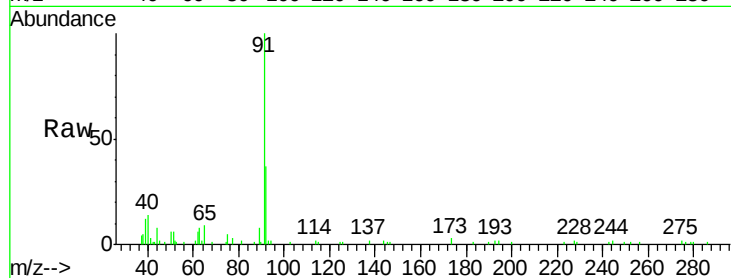
Ion Ratio Lower Upper

91 100

92 63.1 49.2 73.8

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7/9/2018 10:47:49 AM



#54

1,2-Dibromoethane

Concen: 0.11 ppbv m

RT: 10.85 min Scan# 3035

Delta R.T. -0.03 min

Lab File: VL032221.D

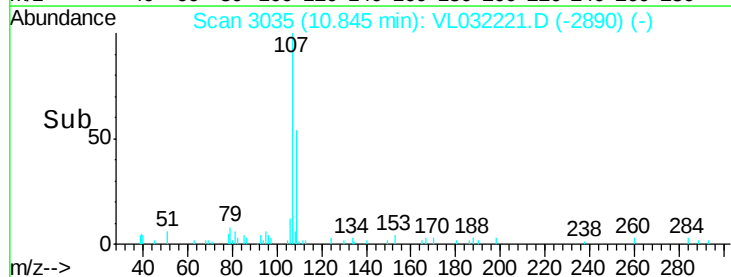
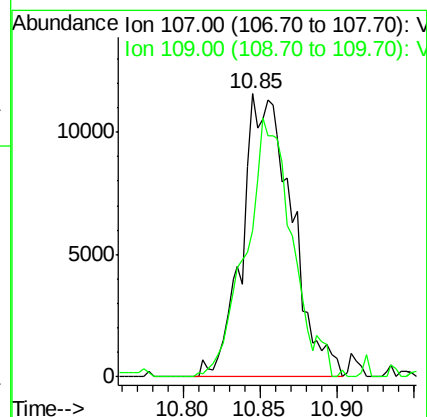
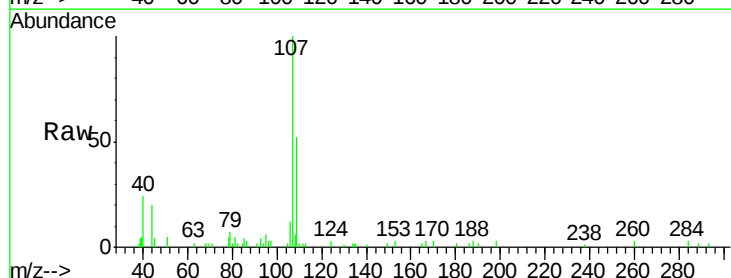
Acq: 6 Jul 2018 2:30

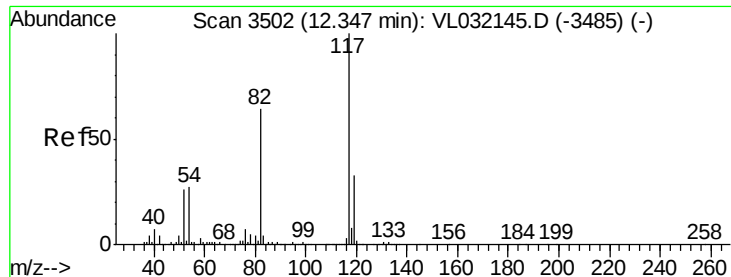
Tgt Ion: 107 Resp: 25700

Ion Ratio Lower Upper

107 100

109 51.6 75.0 112.4#





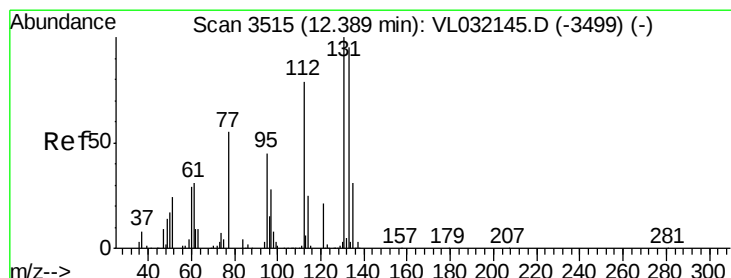
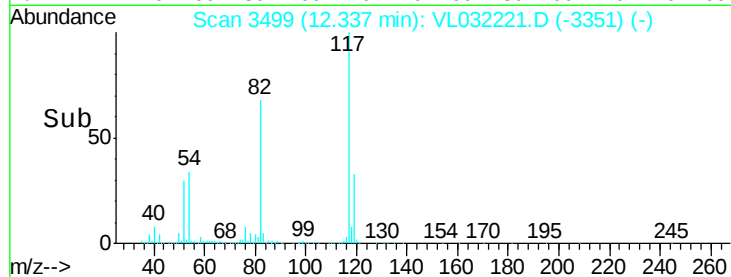
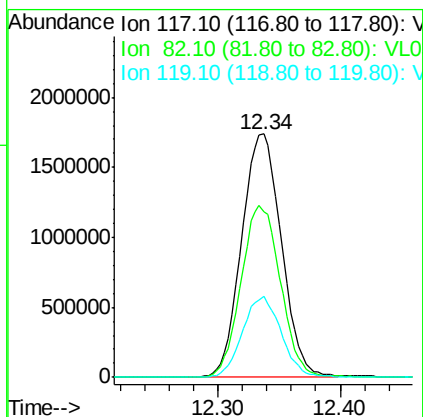
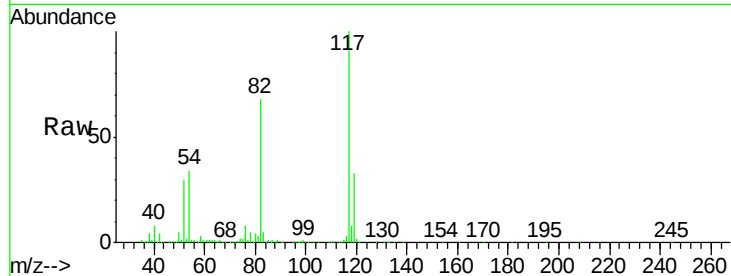
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.34 min Scan# 3499
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

Tot Ion:117 Resp: 3910062
Ion Ratio Lower Upper
117 100
82 70.7 47.8 71.8
119 32.7 43.3 64.9#

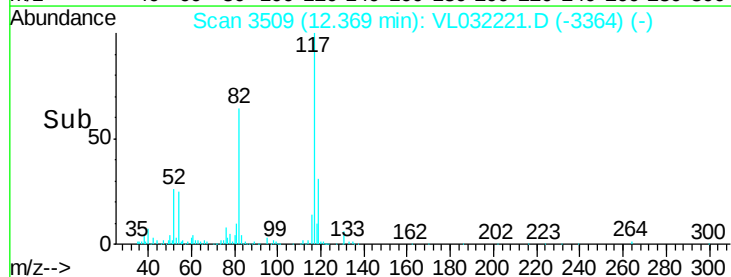
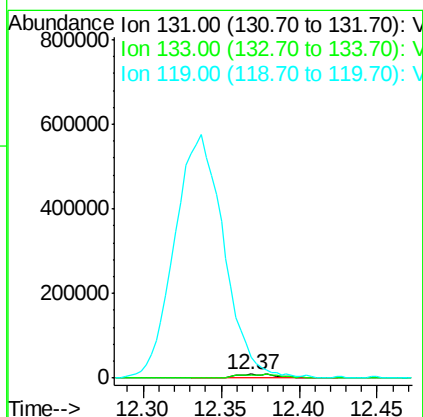
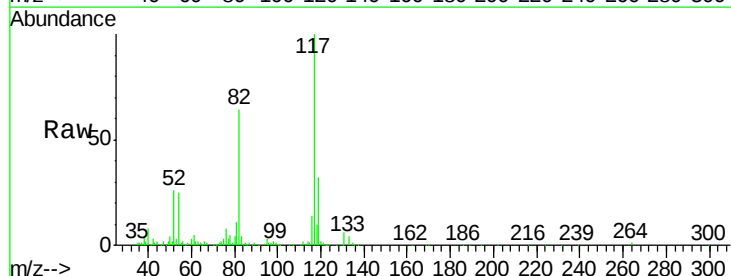
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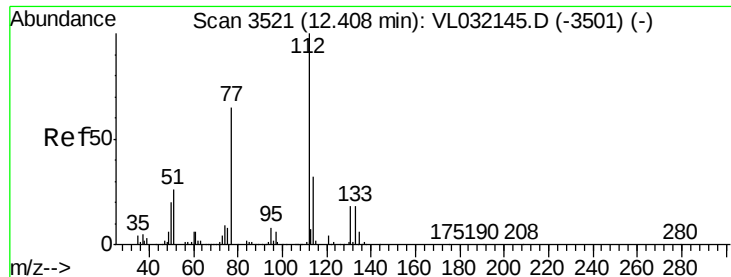
MMDadoda
7/9/2018 10:47:49 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.12 ppbv m
RT: 12.37 min Scan# 3509
Delta R.T. -0.03 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion:131 Resp: 20393
Ion Ratio Lower Upper
131 100
133 94.2 75.5 113.3
119 0.0 118.4 177.6#





#57

Chlorobenzene

Concen: 0.13 ppbv m

RT: 12.39 min Scan# 3516

Delta R.T. -0.03 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

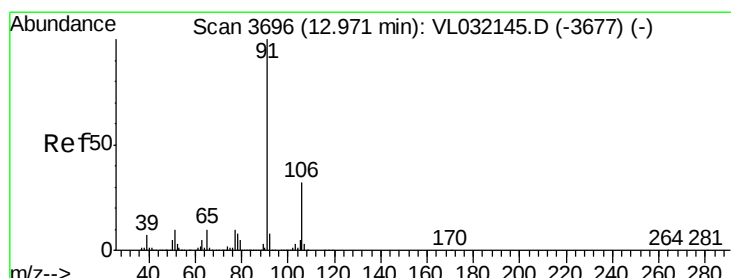
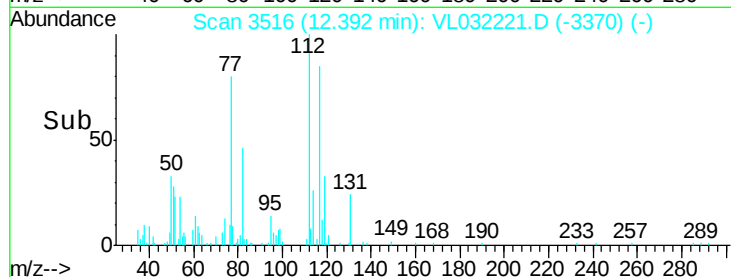
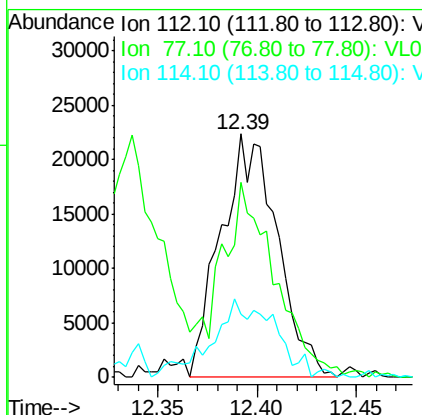
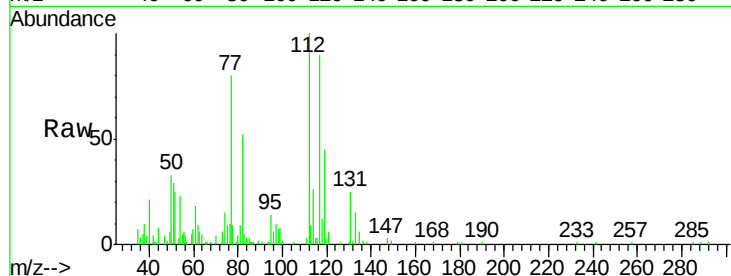
ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
112	100		
77	80.3	52.6	78.8#
114	25.9	27.9	34.1#

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#58

Ethyl Benzene

Concen: 0.08 ppbv m

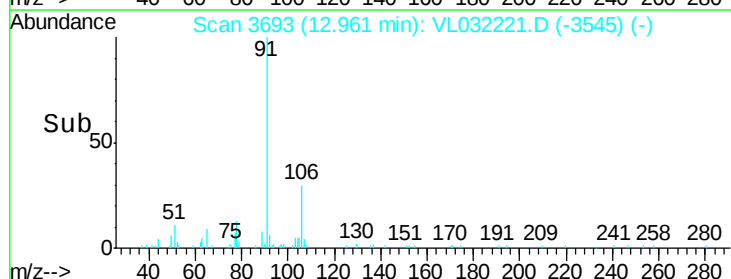
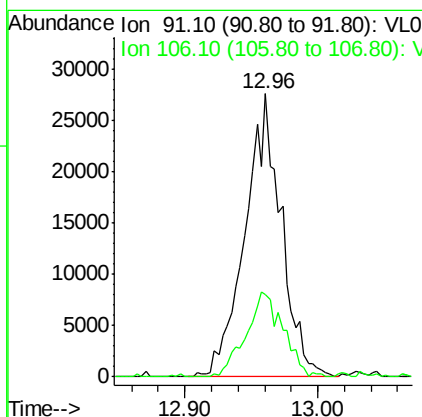
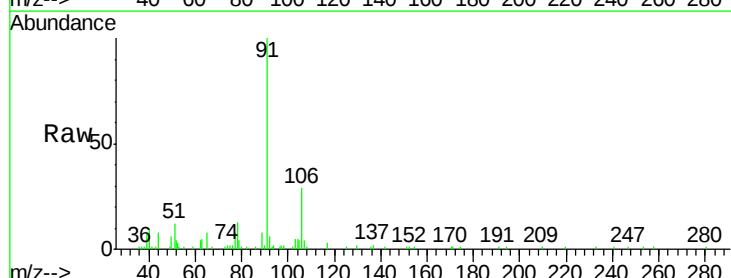
RT: 12.96 min Scan# 3693

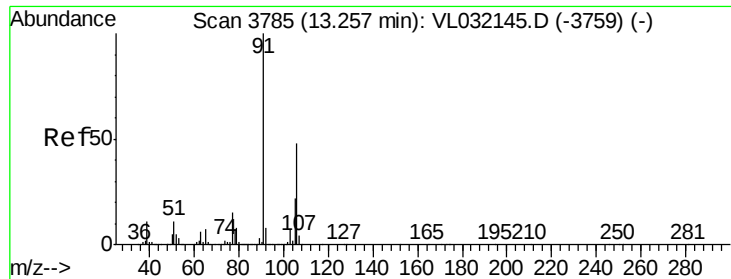
Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.3	26.5	39.7





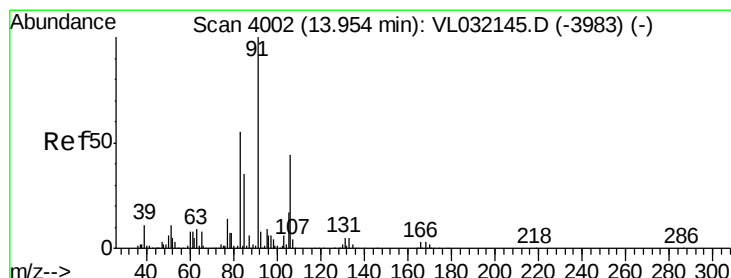
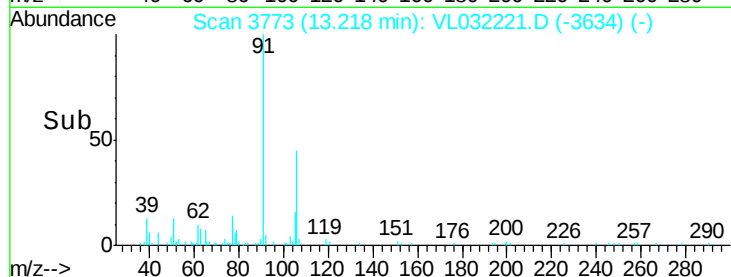
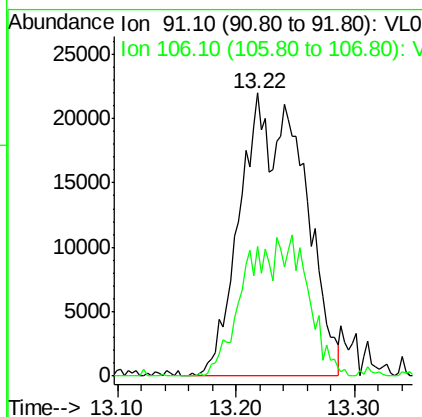
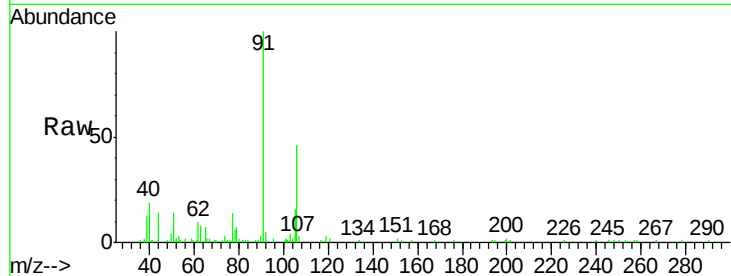
#59
m/p-Xylene
Concen: 0.16 ppbv m
RT: 13.22 min Scan# 3773
Delta R.T. -0.05 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

Tot Ion: 91 Resp: 80842
Ion Ratio Lower Upper
91 100
106 48.7 38.6 58.0

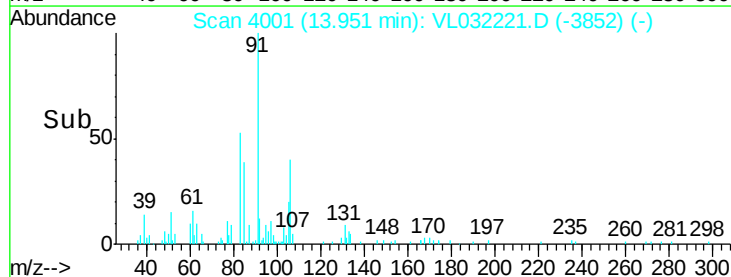
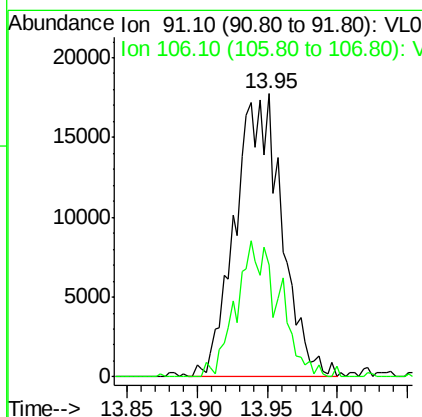
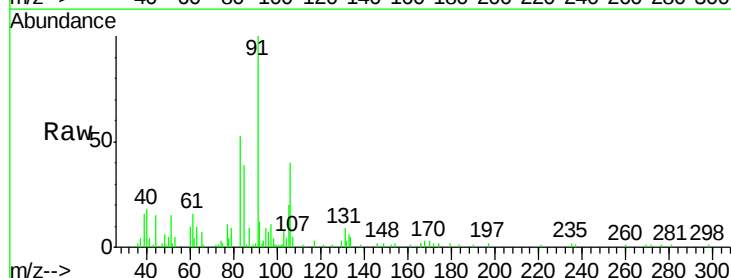
Manual Integrations
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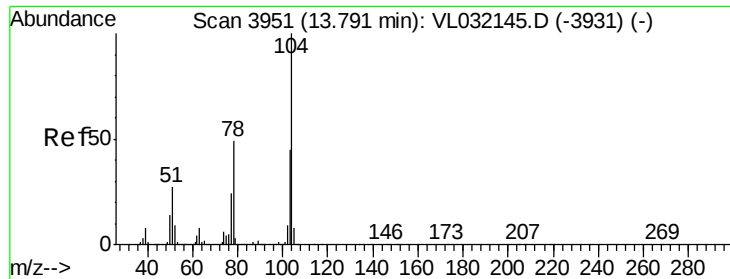
MMDadoda
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#60
o-Xylene
Concen: 0.08 ppbv m
RT: 13.95 min Scan# 4001
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion: 91 Resp: 40726
Ion Ratio Lower Upper
91 100
106 0.0 23.3 69.8#





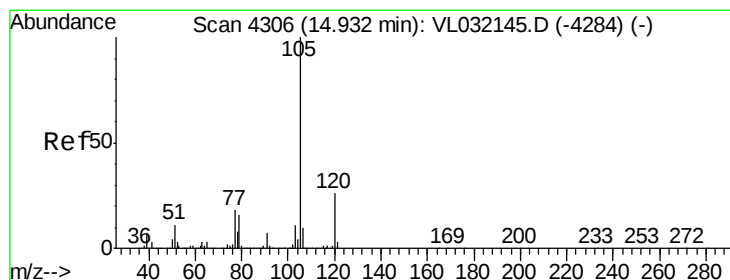
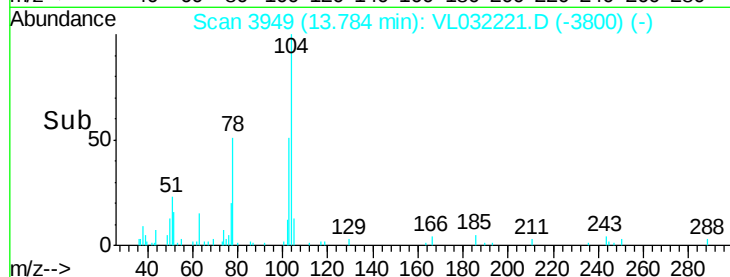
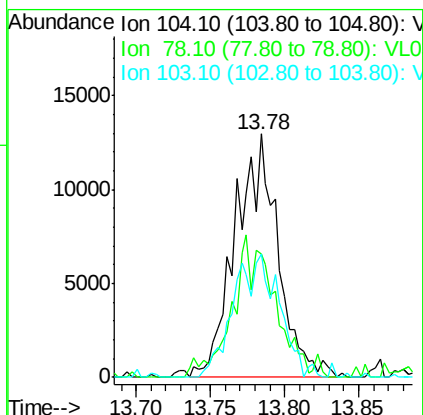
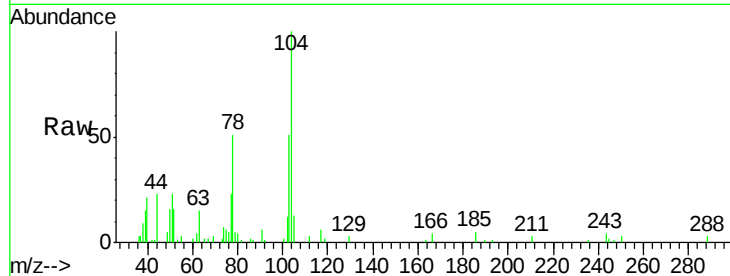
#61
Stvrene
Concen: 0.06 ppbv m
RT: 13.78 min Scan# 3949
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
104	100		
78	58.5	37.9	56.9#
103	0.0	36.6	55.0#

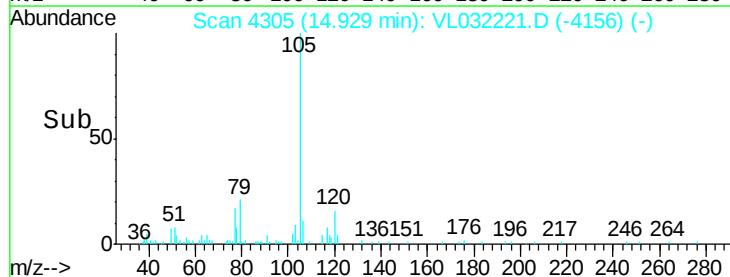
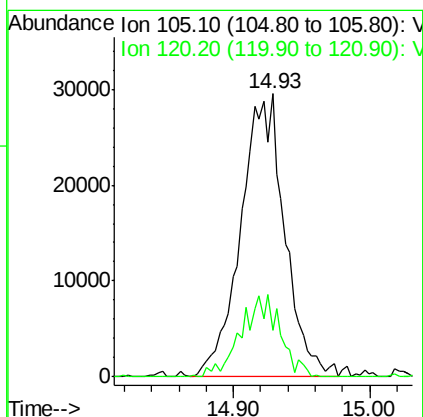
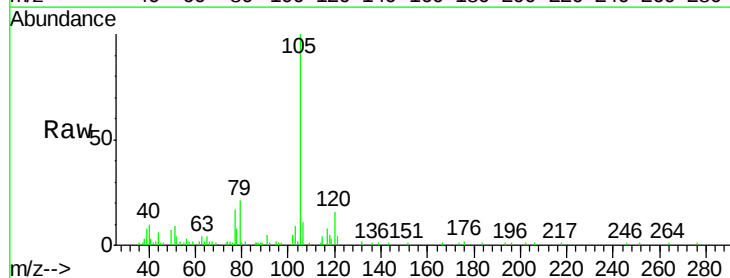
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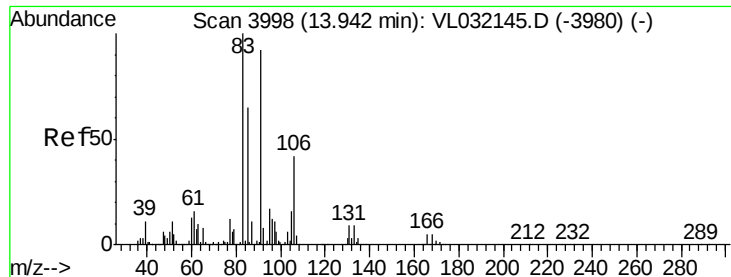
MMDadoda
7/9/2018 10:47:49 AM



#62
Isopropylbenzene
Concen: 0.08 ppbv m
RT: 14.93 min Scan# 4305
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	21.0	31.4#





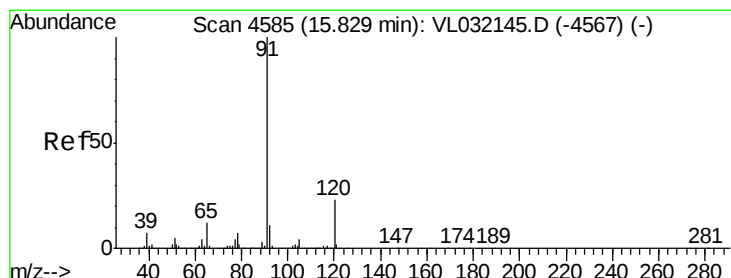
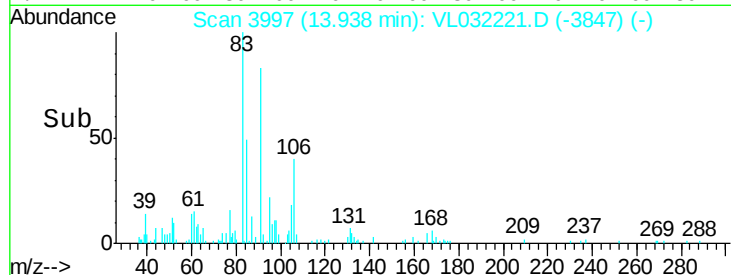
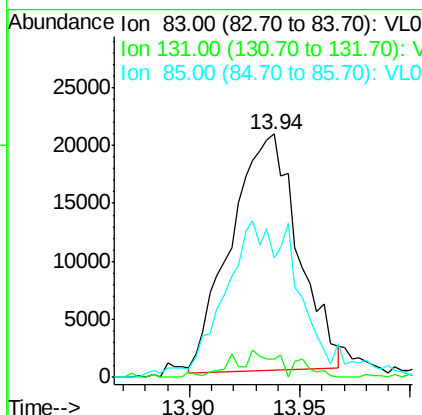
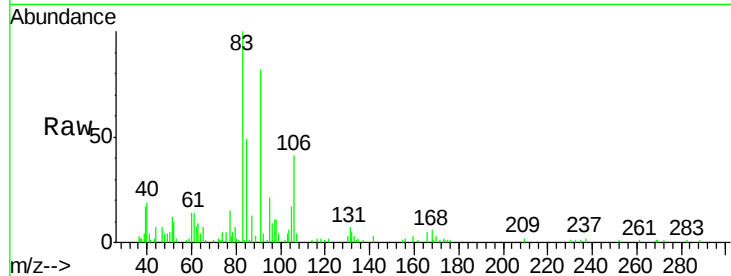
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.11 ppbv
 RT: 13.94 min Scan# 3997
 Delta R.T. -0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Tot Ion	83	Resp	43075
Ion Ratio	100	Lower	Upper
83	100		
131	9.5	4.6	13.8
85	75.9	32.4	97.2

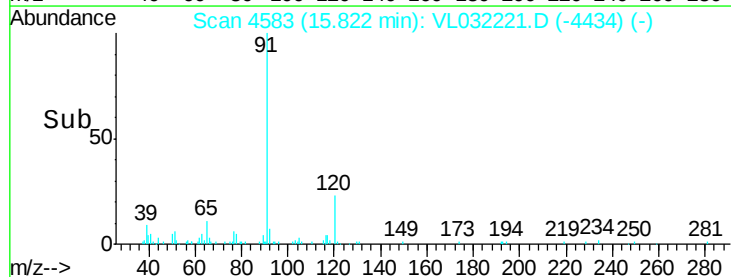
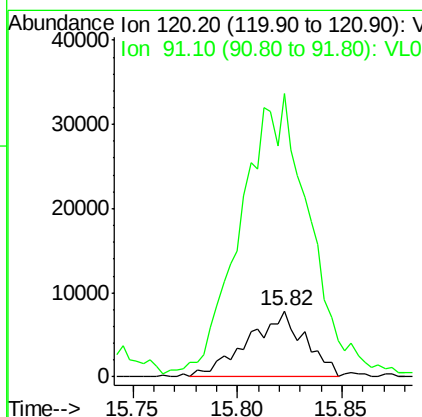
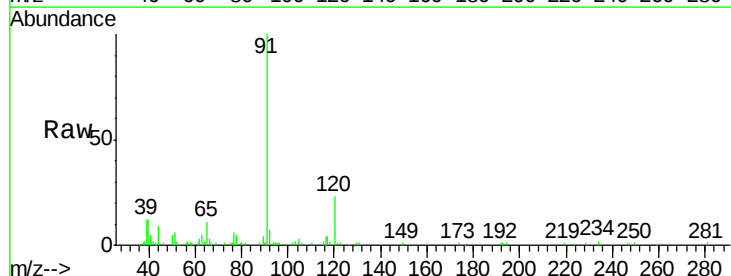
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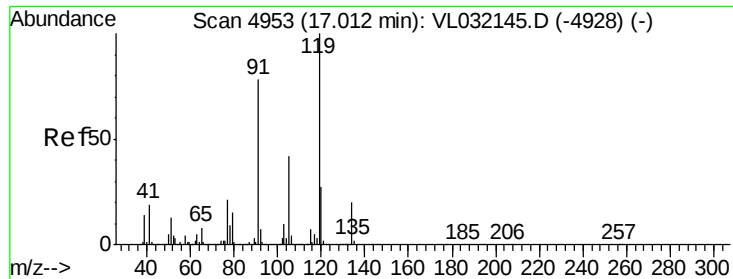
MMDadoda
 7/9/2018 10:47:49 AM



#64
 n-propylbenzene
 Concen: 0.07 ppbv m
 RT: 15.82 min Scan# 4583
 Delta R.T. -0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Tgt Ion	120	Resp	14724
Ion Ratio	100	Lower	Upper
120	100		
91	0.0	357.4	536.0#





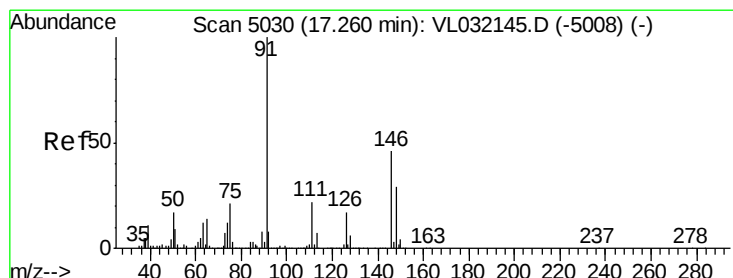
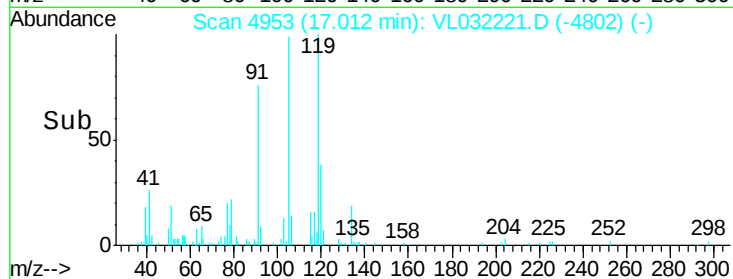
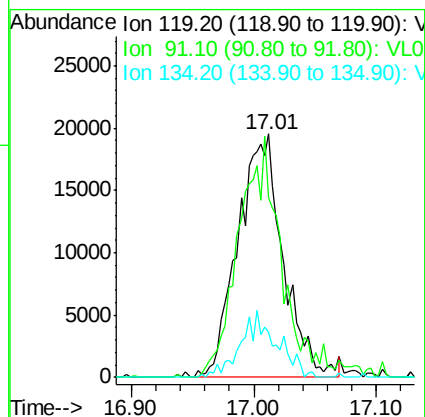
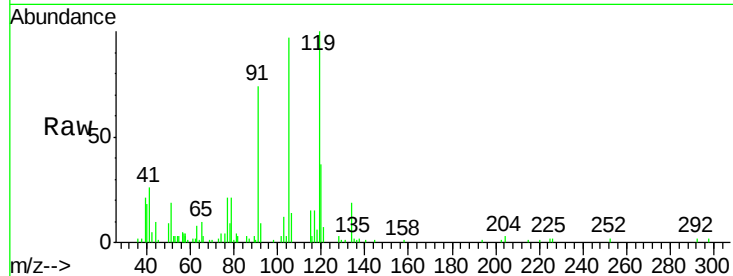
#65
tert-Butylbenzene
Concen: 0.07 ppbv m
RT: 17.01 min Scan# 4953
Delta R.T. -0.01 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
119	100	50381		
91	0.0	62.2	93.2#	
134	21.4	16.2	24.2	

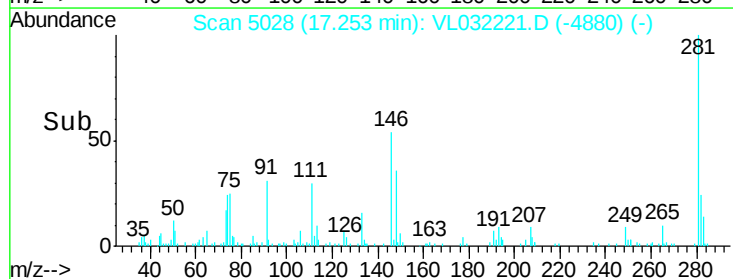
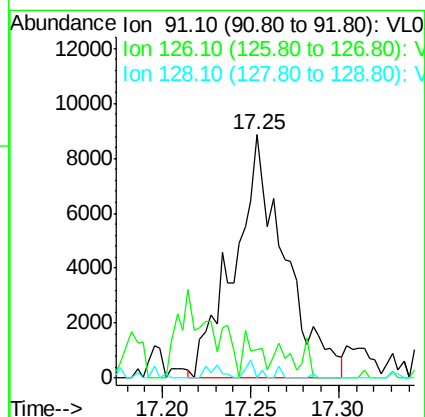
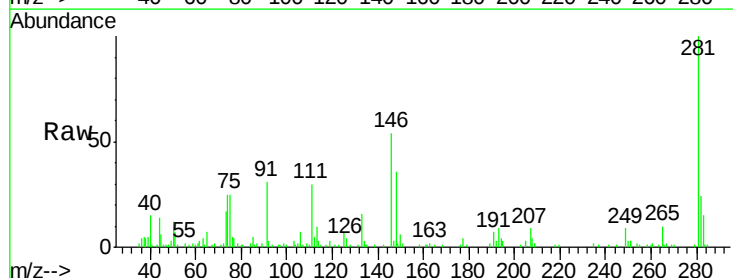
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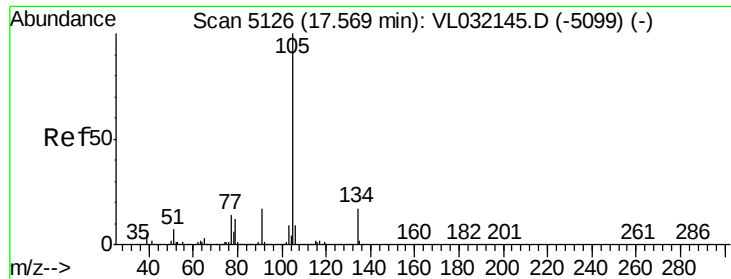
MMDadoda
7/9/2018 10:47:49 AM



#66
Benzyl Chloride
Concen: 0.04 ppbv m
RT: 17.25 min Scan# 5028
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	17523		
126	0.0	15.7	23.5#	
128	3.7	5.2	7.8#	





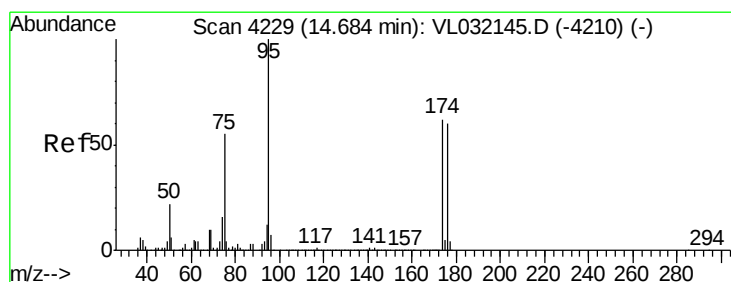
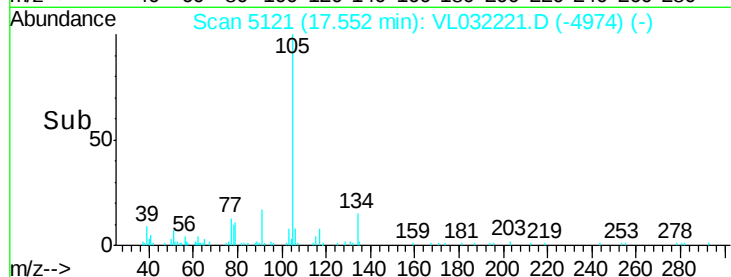
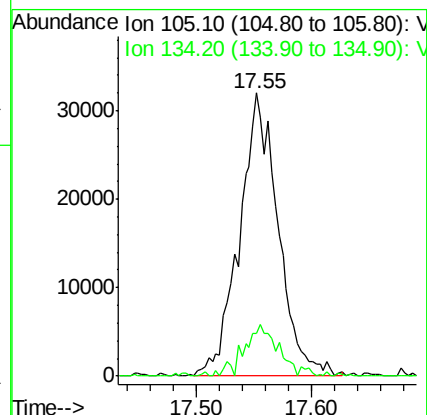
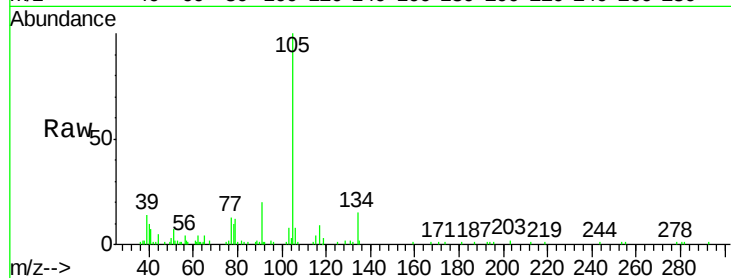
#67
 sec-Butylbenzene
 Concen: 0.07 ppbv m
 RT: 17.55 min Scan# 5121
 Delta R.T. -0.03 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
105	100		
134	16.5	14.7	22.1

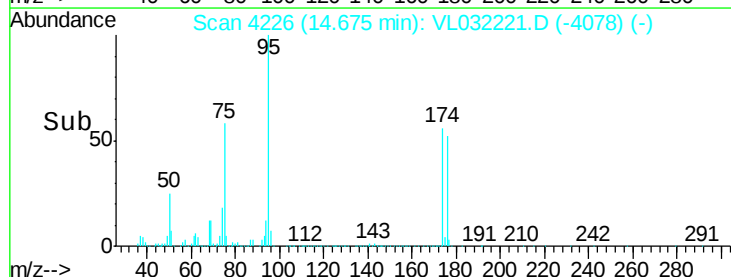
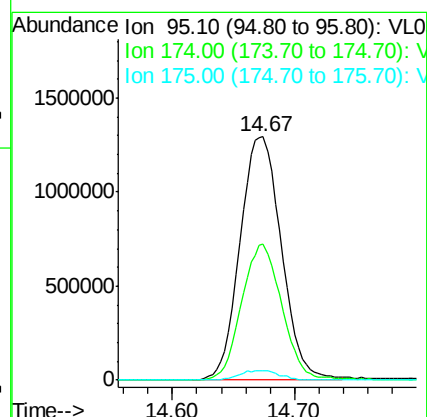
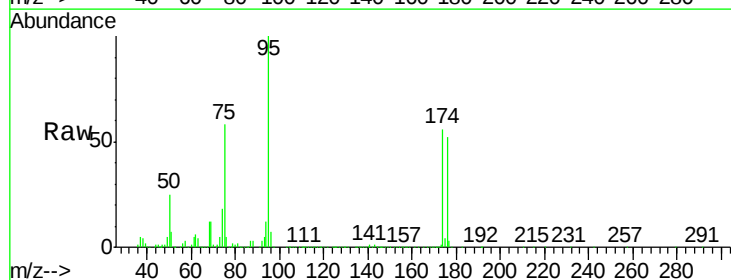
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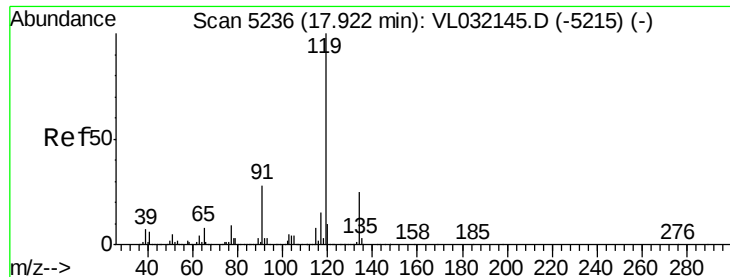
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.15 ppbv
 RT: 14.67 min Scan# 4226
 Delta R.T. -0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Lower	Upper
95	100		
174	54.5	52.1	78.1
175	3.9	4.0	6.0





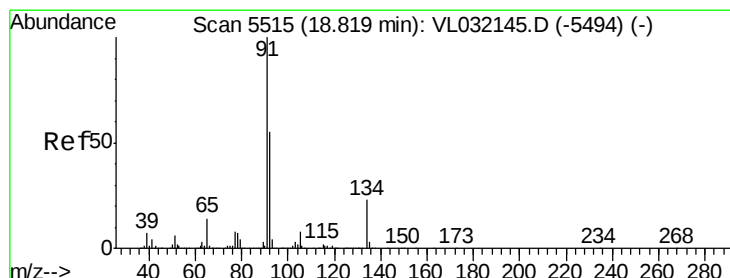
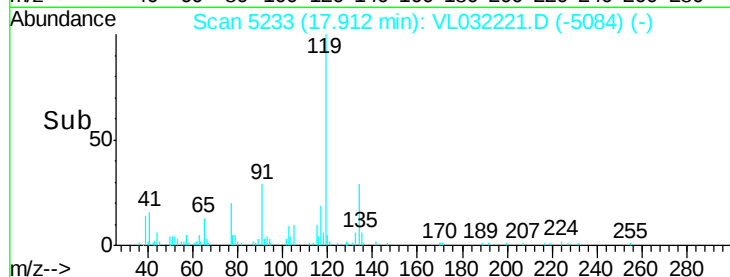
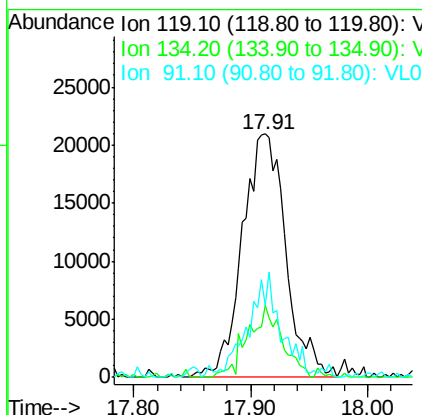
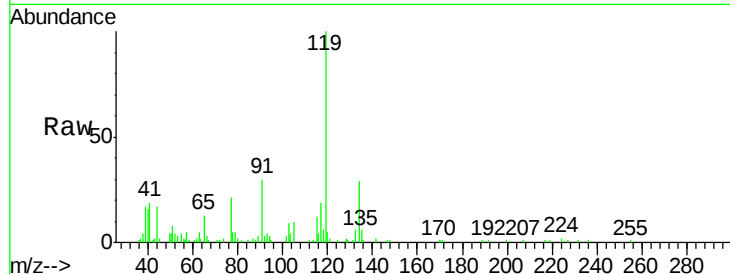
#69
 p-Isopropyltoluene
 Concen: 0.07 ppbv m
 RT: 17.91 min Scan# 5236
 Delta R.T. -0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
119	100	53731		
134	24.0		20.7	31.1
91	35.0		21.8	32.8

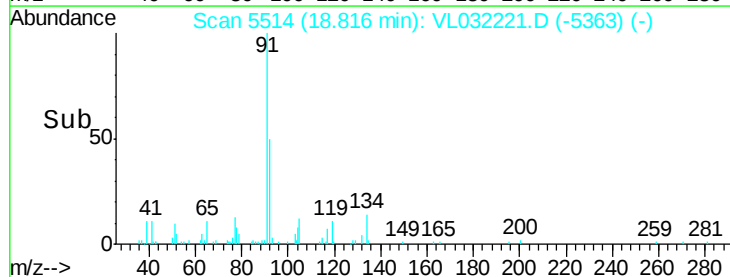
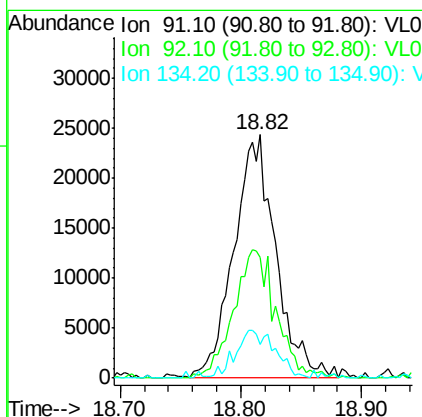
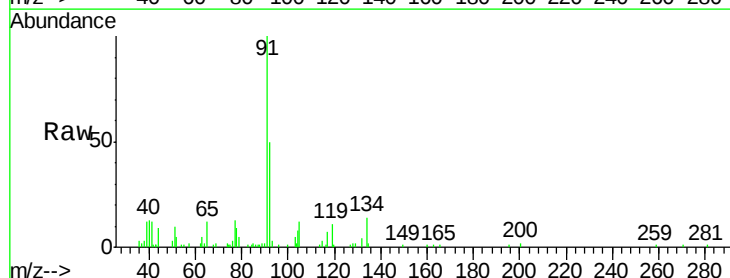
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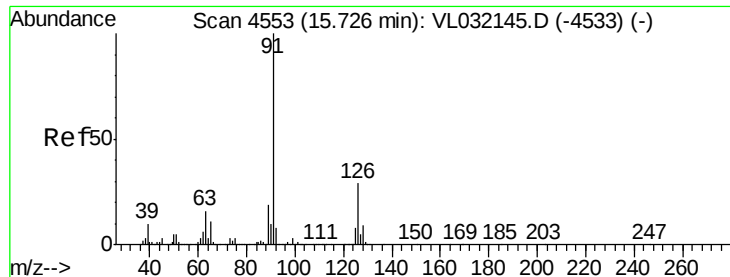
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#70
 n-Butylbenzene
 Concen: 0.07 ppbv m
 RT: 18.82 min Scan# 5514
 Delta R.T. -0.01 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	59271		
92	53.5		43.7	65.5
134	19.4		18.9	28.3





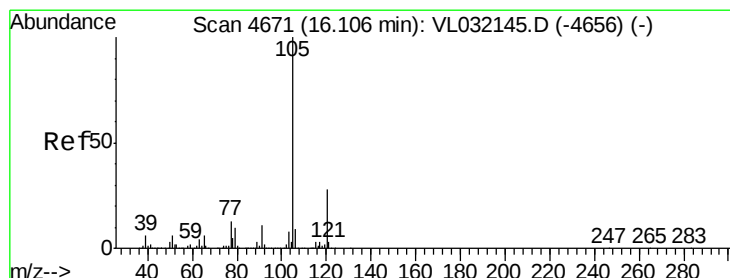
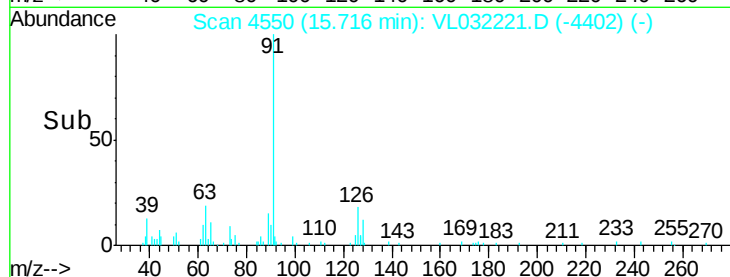
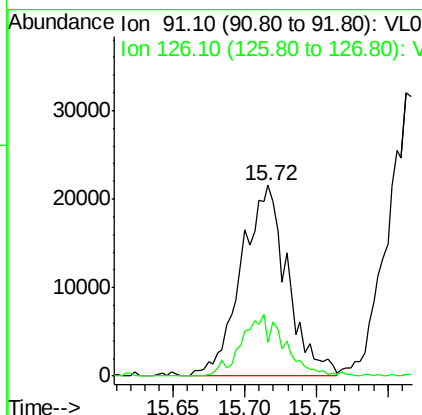
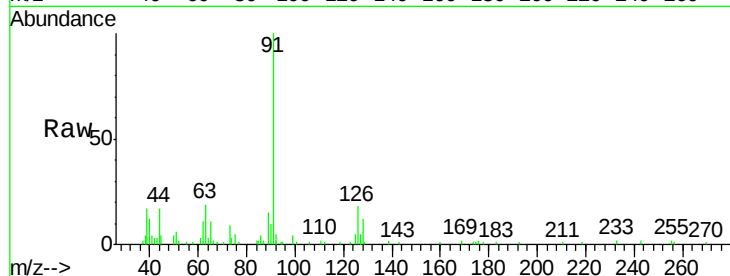
#71
2-Chlorotoluene
Concen: 0.08 ppbv m
RT: 15.72 min Scan# 4550
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

Tot Ion: 91 Resp: 48420
Ion Ratio Lower Upper
91 100
126 30.1 12.8 51.0

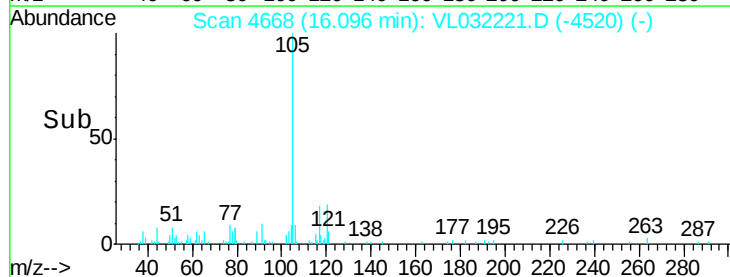
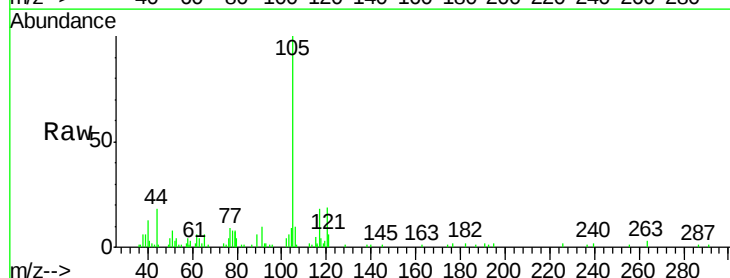
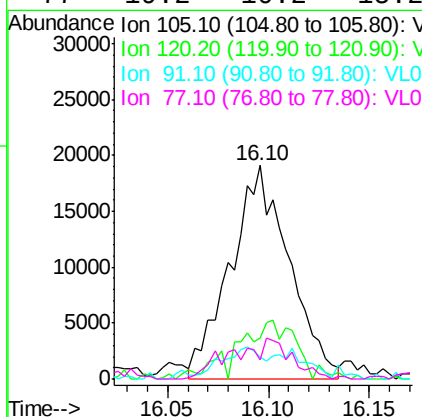
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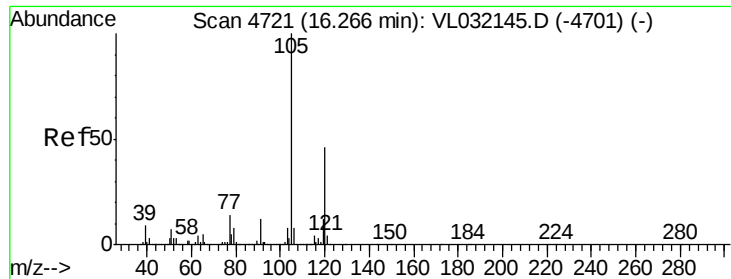
MMDadoda
7/9/2018 10:47:49 AM



#72
4-Ethyltoluene
Concen: 0.06 ppbv
RT: 16.10 min Scan# 4668
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion: 105 Resp: 38883
Ion Ratio Lower Upper
105 100
120 28.5 24.3 36.5
91 19.8 9.4 14.0#
77 19.2 10.2 15.2#





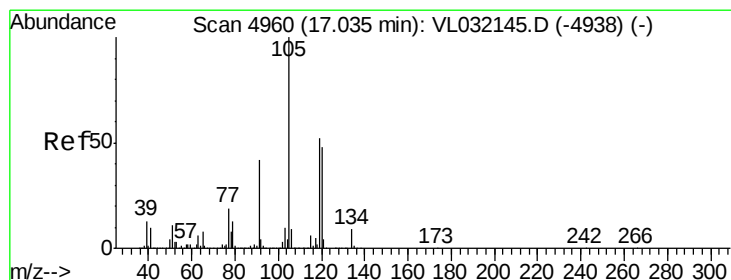
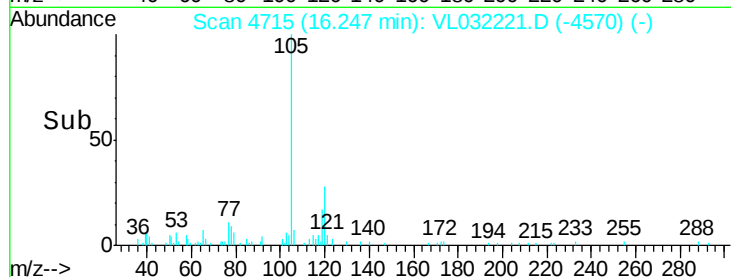
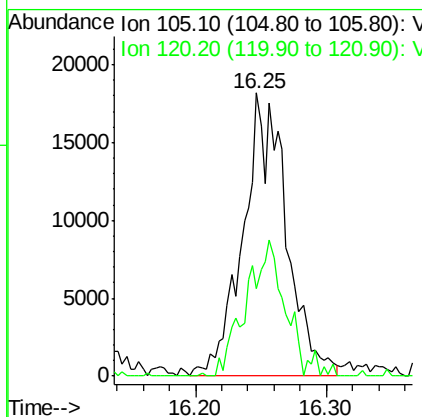
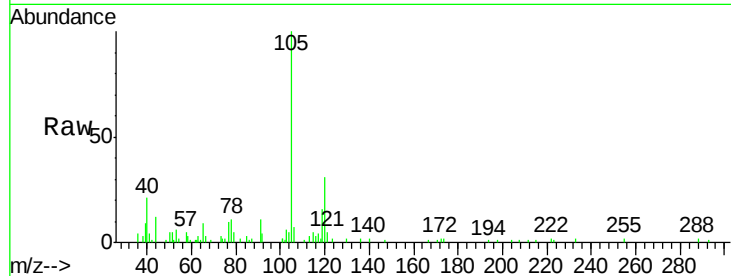
#73
 1,3,5-Trimethylbenzene
 Concen: 0.07 ppbv m
 RT: 16.25 min Scan# 4715
 Delta R.T. -0.03 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
105	100		
120	31.1	38.6	57.8#

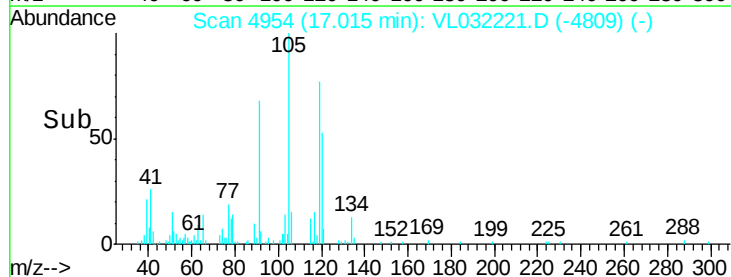
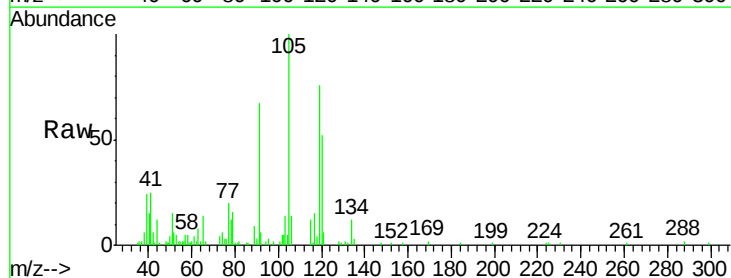
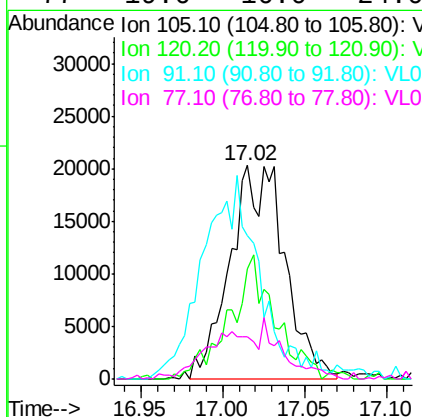
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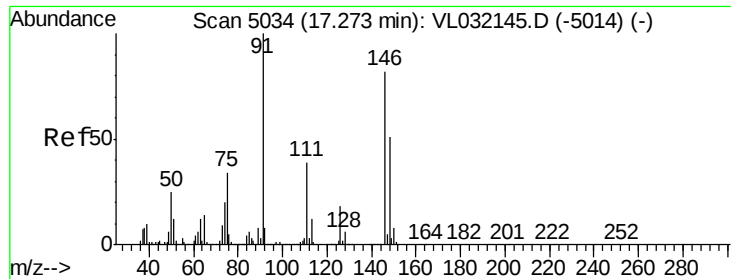
MMDadoda
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.08 ppbv m
 RT: 17.02 min Scan# 4954
 Delta R.T. -0.03 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Lower	Upper
105	100		
120	51.8	38.8	58.2
91	67.1	33.6	50.4#
77	19.6	16.0	24.0





#75

1,3-Dichlorobenzene

Concen: 0.12 ppbv m

RT: 17.26 min Scan# 5030

Delta R.T. -0.03 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

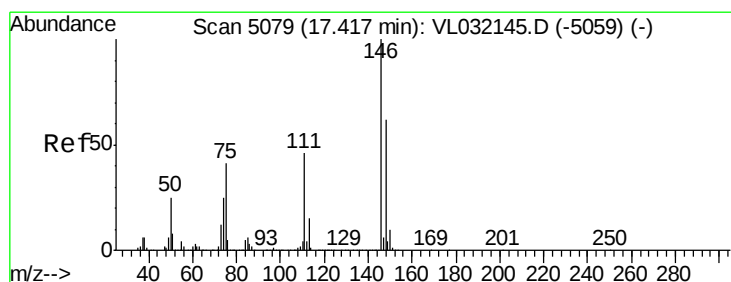
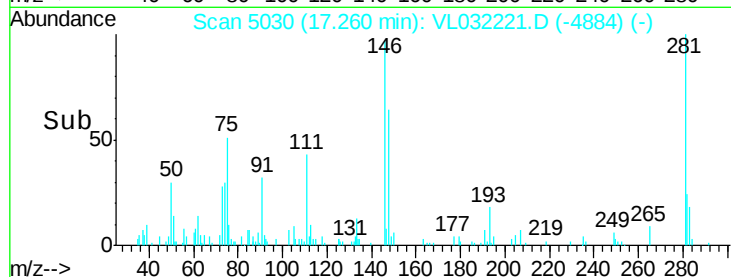
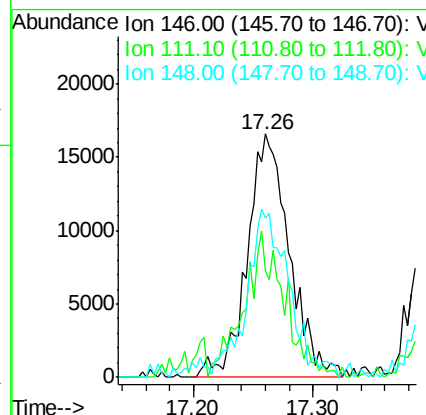
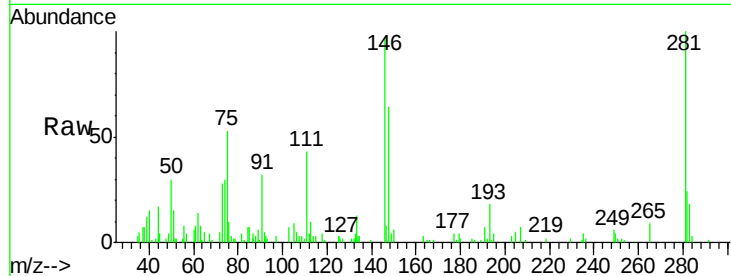
ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion:	146	Resp:	40559
Ion Ratio	Lower	Upper	
146	100		
111	58.0	22.9	68.8
148	75.0	31.7	95.1

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#76

1,4-Dichlorobenzene

Concen: 0.09 ppbv

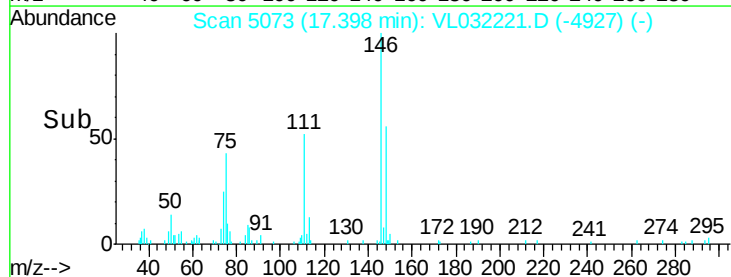
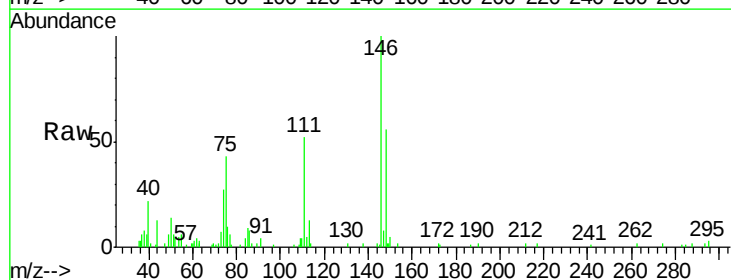
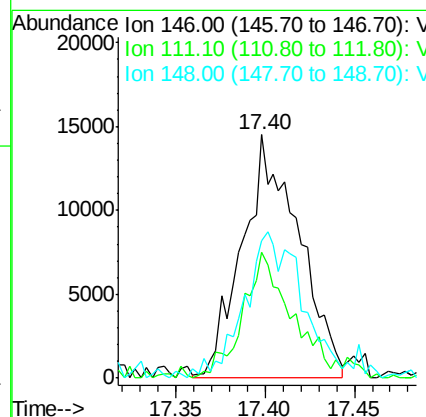
RT: 17.40 min Scan# 5073

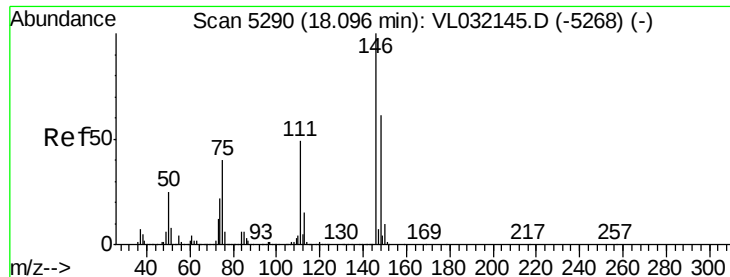
Delta R.T. -0.03 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Tgt Ion:	146	Resp:	31972
Ion Ratio	Lower	Upper	
146	100		
111	47.7	21.9	65.8
148	65.3	32.1	96.5





#77

1,2-Dichlorobenzene

Concen: 0.10 ppbv m

RT: 18.09 min Scan# 5287

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

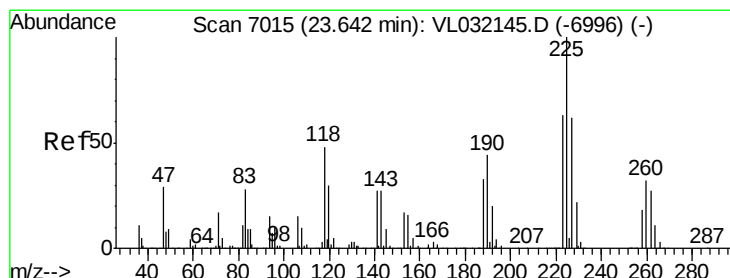
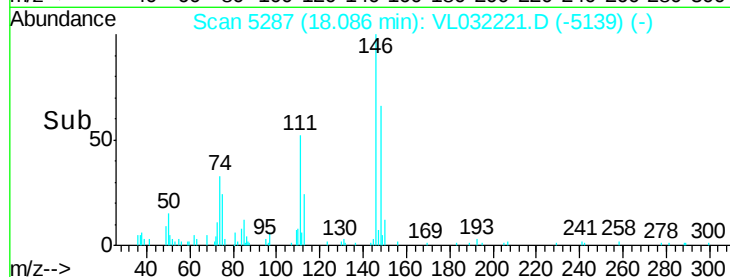
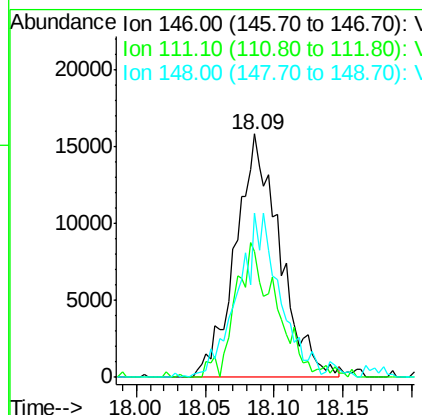
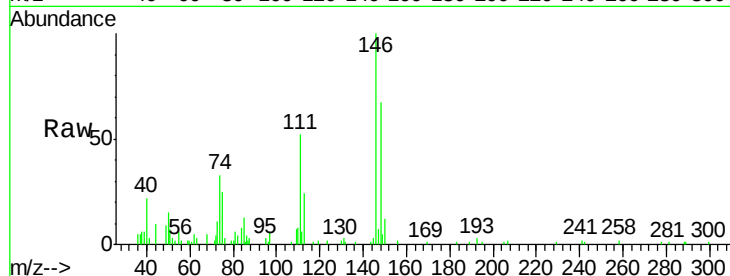
ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.3	23.4	70.3
148	0.0	32.0	96.0

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#78

Hexachloro-1,3-Butadiene

Concen: 0.13 ppbv m

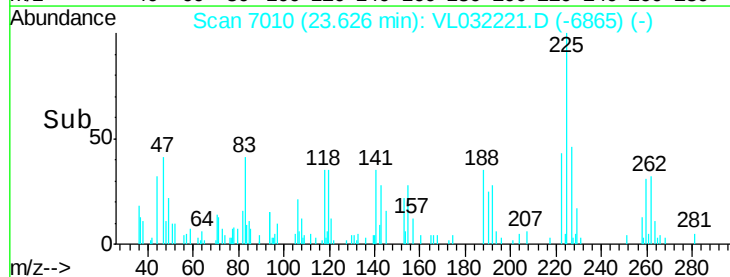
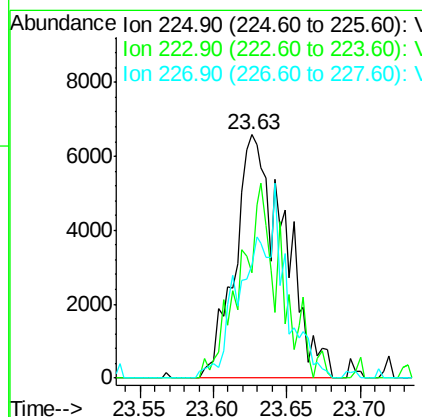
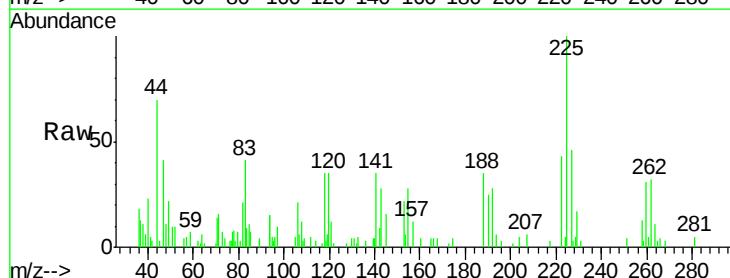
RT: 23.63 min Scan# 7010

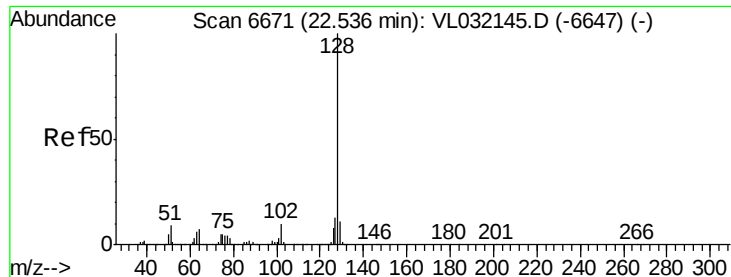
Delta R.T. -0.03 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.3	51.0	76.4
227	0.0	51.4	77.0





#79

Naphthalene

Concen: 0.04 ppbv m

RT: 22.53 min Scan# 6670

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

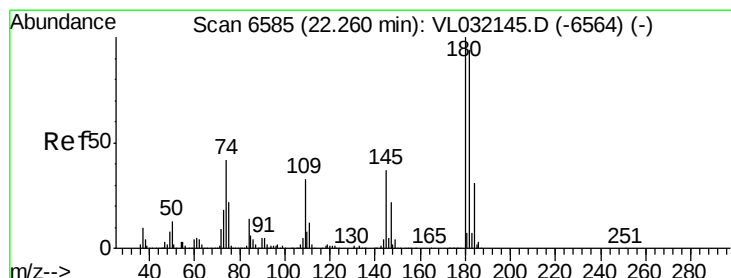
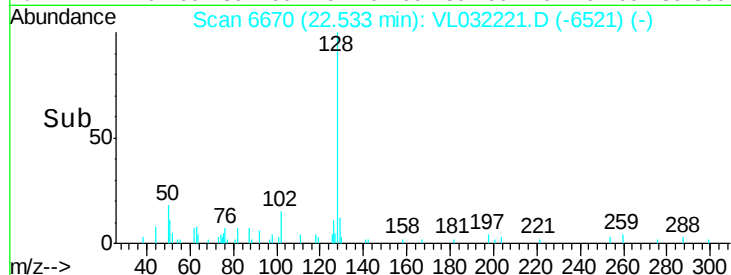
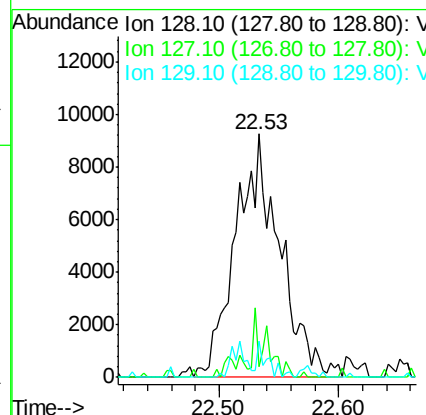
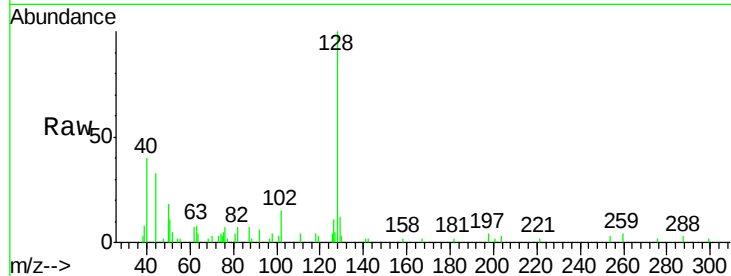
ClientSampleId :

MDL-AIR-03-QT3-2018

Tot Ion:	128	Resp:	23796
Ion Ratio	Lower	Upper	
128	100		
127	4.6	10.5	15.7#
129	12.2	9.0	13.6

Manual Integrations
APPROVED

MMDadoda
7/9/2018 10:47:49 AM



#81

1,2,4-Trichlorobenzene

Concen: 0.06 ppbv m

RT: 22.27 min Scan# 6587

Delta R.T. -0.01 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Tgt Ion:	180	Resp:	14392
Ion Ratio	Lower	Upper	
180	100		
182	0.0	76.2	114.4#
184	0.0	24.4	36.6#

