

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL034004.D
 Acq On : 3 Jul 2019 3:47
 Operator : SY/AP
 Sample : K3591-13 LOD 0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:44 PM

Quant Time: Jul 03 09:22:44 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 09:22:44 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	890153	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2425554	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	2411742	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	1962012	9.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	31360	0.171	ppbv	99
3) Chlorodifluoromethane	3.00	51	15776	0.144	ppbv #	87
4) Chloromethane	3.15	50	8454m	0.134	ppbv	
5) Vinyl Chloride	3.28	62	7821	0.110	ppbv #	87
6) Bromomethane	3.50	94	6064m	0.145	ppbv	
7) Chloroethane	3.59	64	3635	0.143	ppbv #	78
8) Dichlorotetrafluoroethane	3.21	85	26436	0.148	ppbv	92
9) Propene	3.02	41	5779m	0.143	ppbv	
10) Heptane	8.21	43	6811m	0.067	ppbv	
11) Trichlorofluoromethane	3.99	101	26248m	0.127	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.53	101	18988	0.130	ppbv	97
13) Ethanol	3.65	45	1698m	0.135	ppbv	
14) Bromoethene	3.77	108	7905	0.145	ppbv #	85
15) Acetone	3.91	43	22531	0.151	ppbv #	86
16) 1,3-Butadiene	3.35	39	6226m	0.118	ppbv	
17) tert-Butyl alcohol	4.37	59	16907m	0.142	ppbv	
18) 1,1-Dichloroethene	4.33	96	7961m	0.122	ppbv	
19) Isopropyl Alcohol	4.04	45	16151m	0.161	ppbv	
20) Methylene Chloride	4.39	84	12553m	0.192	ppbv	
21) Allyl Chloride	4.45	41	11784m	0.126	ppbv	
22) trans-1,2-Dichloroethene	4.95	96	8497	0.137	ppbv #	57
23) Vinyl Acetate	5.14	43	17300m	0.116	ppbv	
24) 1,1-Dichloroethane	5.07	63	16006m	0.121	ppbv	
25) Ethyl Acetate	5.76	43	19810m	0.097	ppbv	
26) Hexane	5.75	57	9487m	0.101	ppbv	
27) Carbon Disulfide	4.61	76	17948m	0.113	ppbv	
28) Methyl tert-Butyl Ether	5.11	73	13883m	0.088	ppbv	
29) Chloroform	5.81	83	22133	0.126	ppbv	93
30) Cyclohexane	7.25	84	14899m	0.206	ppbv	
31) cis-1,2-Dichloroethene	5.61	61	8771m	0.097	ppbv	
32) 1,1,1-Trichloroethane	6.59	97	19041	0.107	ppbv #	87
34) 2-Butanone	5.33	43	11988m	0.093	ppbv	
35) Carbon Tetrachloride	7.10	117	23300m	0.121	ppbv	
36) Benzene	6.98	78	16568	0.087	ppbv #	86
37) 1,2-Dichloroethane	6.39	62	14409m	0.103	ppbv	
38) Trichloroethene	7.93	130	8584m	0.102	ppbv	
39) 1,2-Dichloropropane	7.71	63	9809m	0.139	ppbv	
41) Tetrahydrofuran	6.17	42	5601m	0.089	ppbv	
42) Bromodichloromethane	7.88	83	20990m	0.112	ppbv	
43) Methyl Methacrylate	8.12	69	5257m	0.073	ppbv	
44) 2,2,4-Trimethylpentane	7.96	57	19633m	0.060	ppbv	

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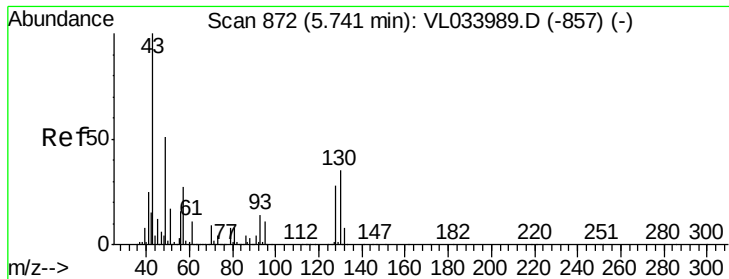
Manual Integrations
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Quant Time: Jul 03 09:22:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) t-1,3-Dichloropropene	9.38	75	5045m	0.054	ppbv	
46) cis-1,3-Dichloropropene	8.80	75	8251m	0.076	ppbv	
47) 1,1,2-Trichloroethane	9.57	97	9697m	0.109	ppbv	
48) Dibromochloromethane	10.42	129	15555m	0.092	ppbv	
49) Bromoform	13.17	173	11587	0.080	ppbv	# 80
50) 4-Methyl-2-Pentanone	8.87	43	12154m	0.064	ppbv	
51) 2-Hexanone	10.28	43	8010m	0.052	ppbv	
52) Tetrachloroethene	11.34	164	8840m	0.108	ppbv	
53) Toluene	9.91	91	12745m	0.059	ppbv	
54) 1,2-Dibromoethane	10.73	107	12117m	0.093	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.25	131	12761m	0.118	ppbv	
57) Chlorobenzene	12.25	112	22970m	0.120	ppbv	
58) Ethyl Benzene	12.82	91	17495m	0.060	ppbv	
59) m/p-Xylene	13.12	91	30414m	0.116	ppbv	
60) o-Xylene	13.82	91	14185m	0.054	ppbv	
61) Styrene	13.65	104	7532m	0.043	ppbv	
62) Isopropylbenzene	14.79	105	26096m	0.065	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.80	83	23266m	0.114	ppbv	
64) n-propylbenzene	15.70	120	4342m	0.041	ppbv	
65) tert-Butylbenzene	16.88	119	16651m	0.048	ppbv	
66) Benzyl Chloride	17.12	91	15997m	0.091	ppbv	
67) sec-Butylbenzene	17.42	105	26224m	0.054	ppbv	
69) p-Isopropyltoluene	17.79	119	18176m	0.046	ppbv	
70) n-Butylbenzene	18.68	91	22060m	0.053	ppbv	
71) 2-Chlorotoluene	15.57	91	16485m	0.056	ppbv	
72) 4-Ethyltoluene	15.97	105	15058m	0.045	ppbv	
73) 1,3,5-Trimethylbenzene	16.12	105	15785m	0.050	ppbv	
74) 1,2,4-Trimethylbenzene	16.89	105	17063m	0.049	ppbv	
75) 1,3-Dichlorobenzene	17.13	146	28435m	0.129	ppbv	
76) 1,4-Dichlorobenzene	17.27	146	17072m	0.082	ppbv	
77) 1,2-Dichlorobenzene	17.96	146	16215m	0.079	ppbv	
78) Hexachloro-1,3-Butadiene	23.51	225	25689m	0.148	ppbv	
79) Naphthalene	22.37	128	13914m	0.048	ppbv	
80) Naphthalene,2-methyl-	25.09	142	6607	0.062	ppbv	86
81) 1,2,4-Trichlorobenzene	22.10	180	15150m	0.081	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

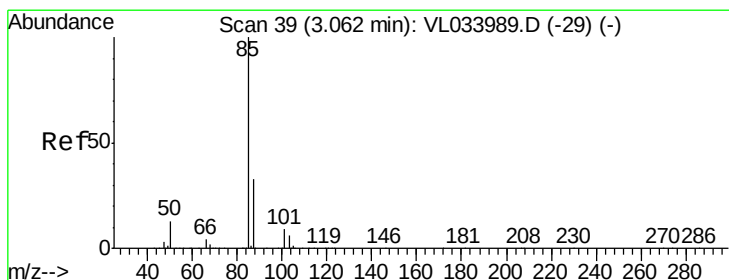
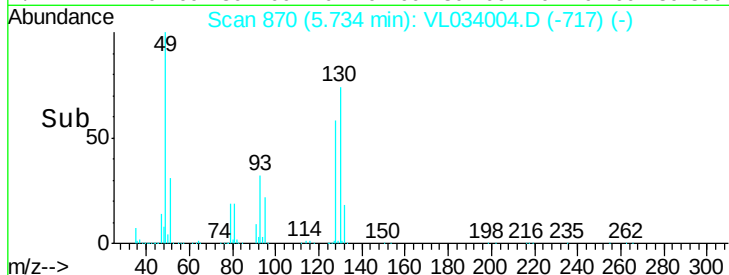
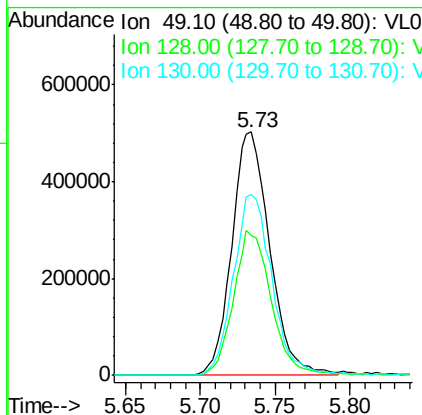
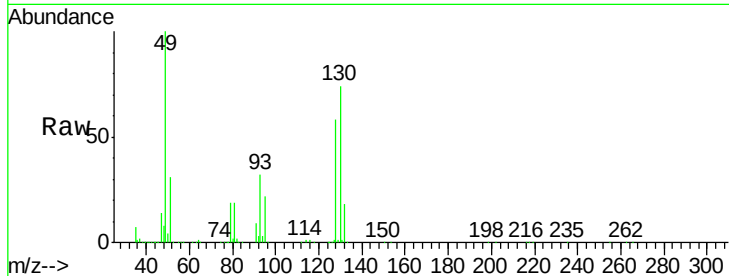
ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion	49	Resp	890153
Ion	Ratio	Lower	Upper
49	100		
128	58.8	27.9	83.6
130	76.1	35.8	107.4

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#2

Dichlorodifluoromethane

Concen: 0.171 ppbv

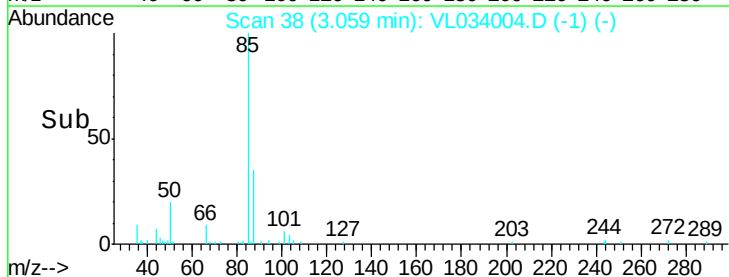
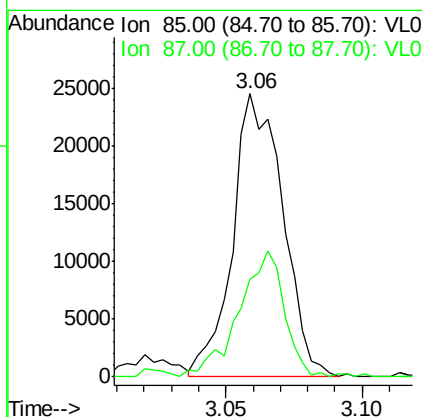
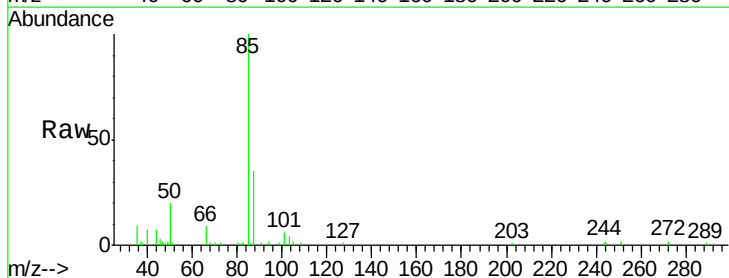
RT: 3.06 min Scan# 38

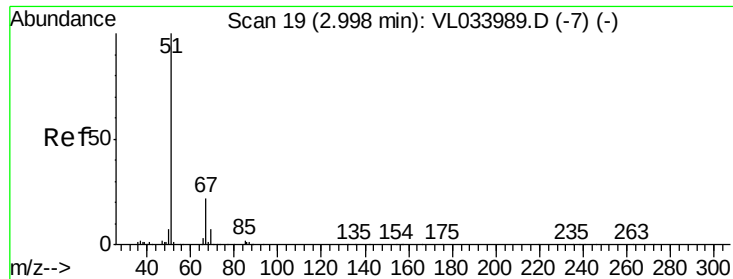
Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Tgt Ion	85	Resp	31360
Ion	Ratio	Lower	Upper
85	100		
87	33.3	26.0	39.0





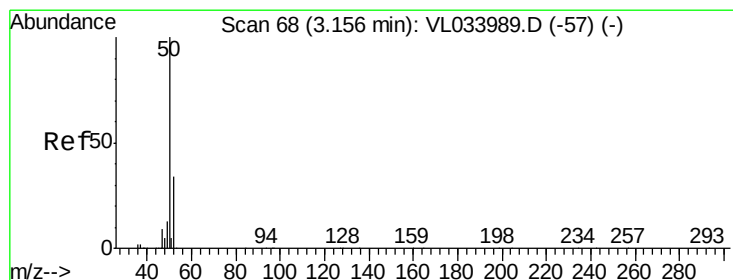
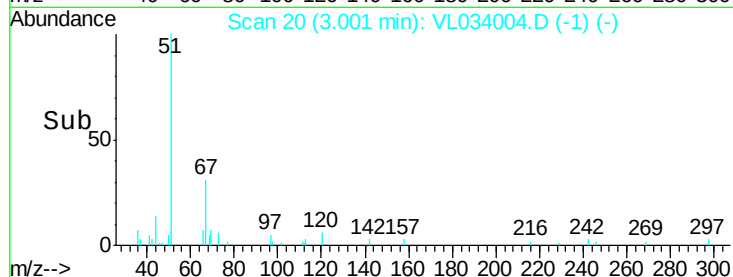
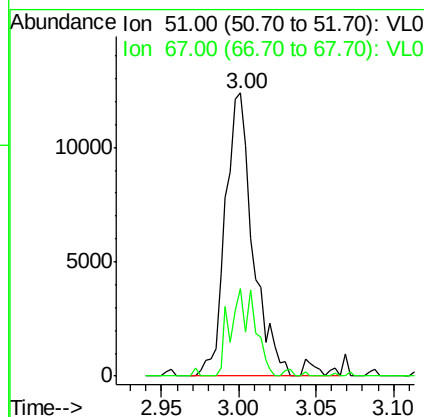
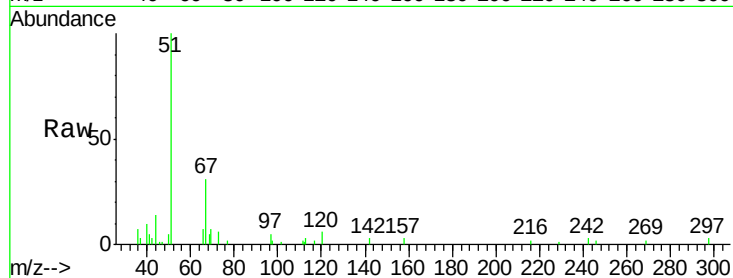
#3
Chlorodifluoromethane
Concen: 0.144 ppbv
RT: 3.00 min Scan# 20
Delta R.T. 0.00 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
51	100		
67	27.7	17.3	25.9#

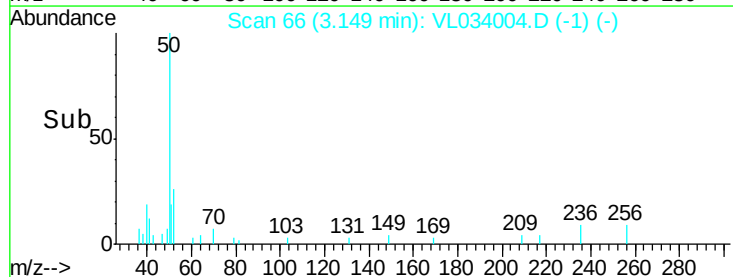
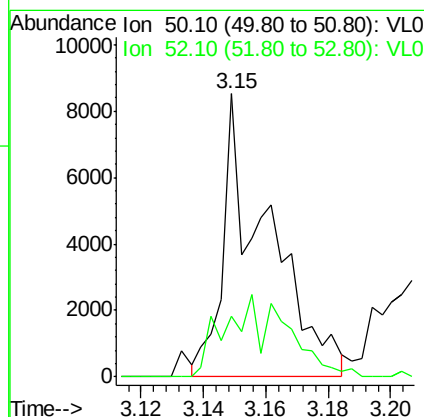
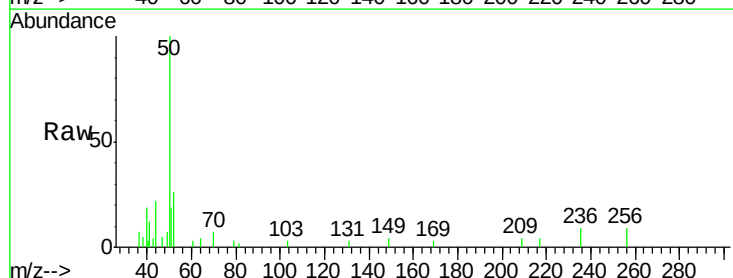
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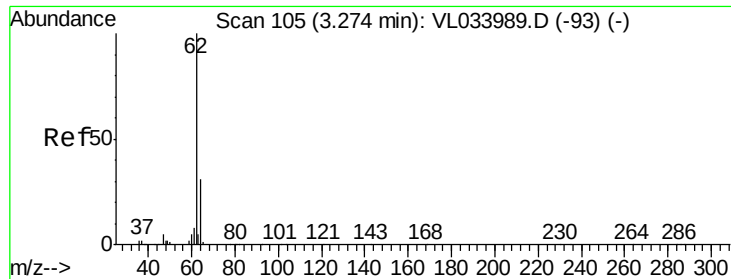
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#4
Chloromethane
Concen: 0.134 ppbv m
RT: 3.15 min Scan# 66
Delta R.T. -0.01 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion	Ratio	Lower	Upper
50	100		
52	25.6	27.4	41.0#





#5

Vinyl Chloride

Concen: 0.110 ppbv

RT: 3.28 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion: 62 Resp: 7821

Ion Ratio Lower Upper

62 100

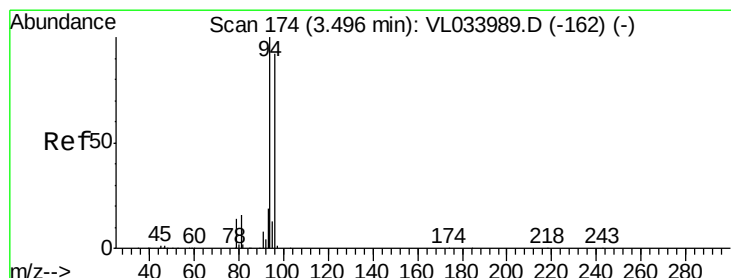
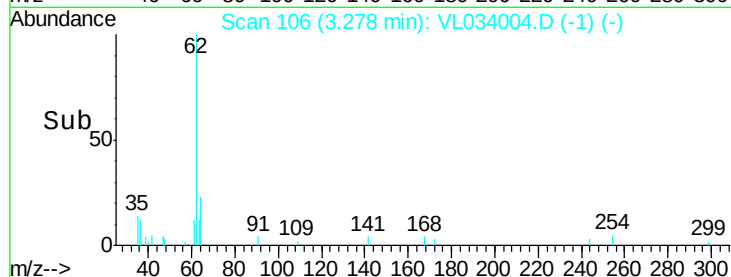
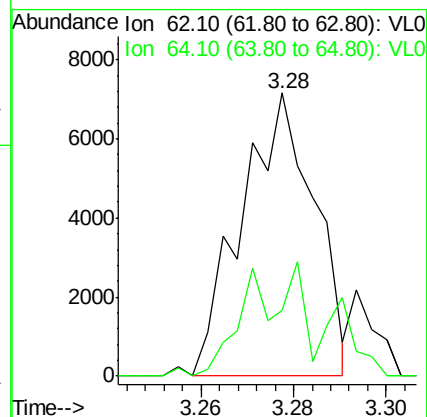
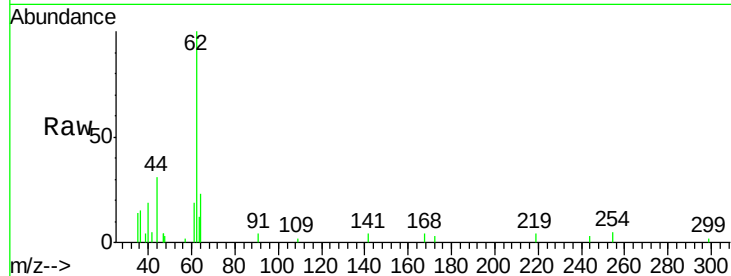
64 23.4 24.4 36.6#

Manual Integrations

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#6

Bromomethane

Concen: 0.145 ppbv m

RT: 3.50 min Scan# 176

Delta R.T. 0.01 min

Lab File: VL034004.D

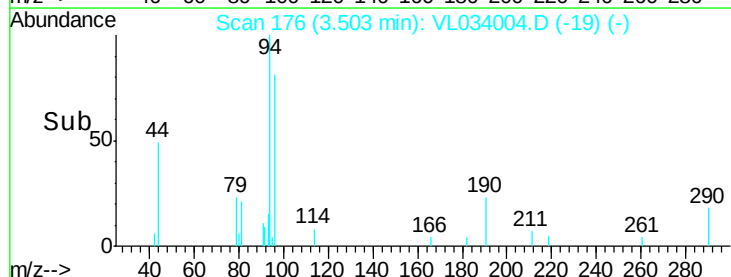
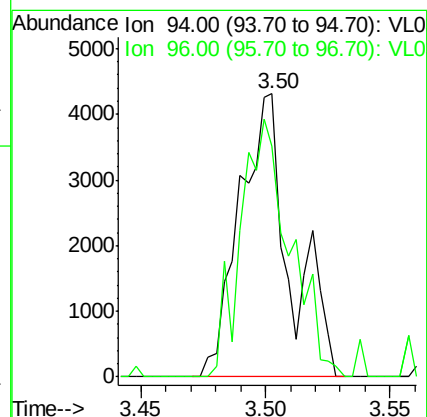
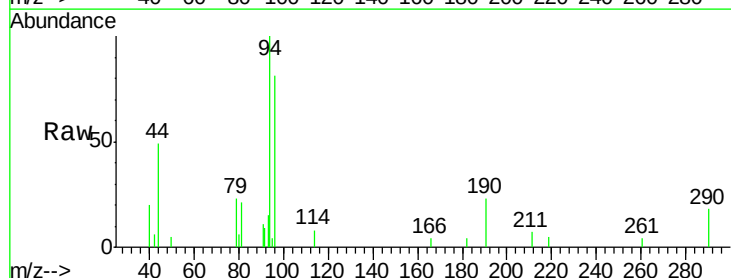
Acq: 3 Jul 2019 3:47

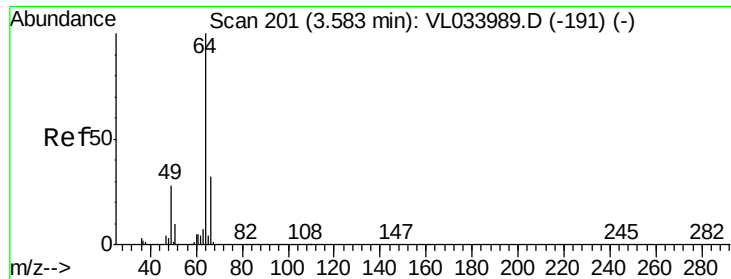
Tgt Ion: 94 Resp: 6064

Ion Ratio Lower Upper

94 100

96 81.4 73.8 110.8





#7

Chloroethane

Concen: 0.143 ppbv

RT: 3.59 min Scan# 202

Delta R.T. 0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

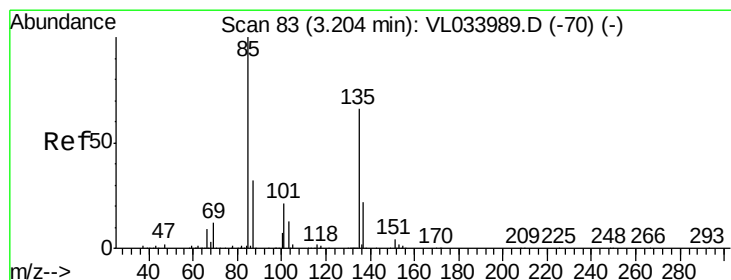
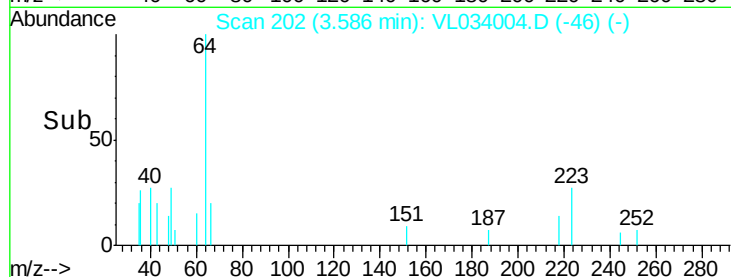
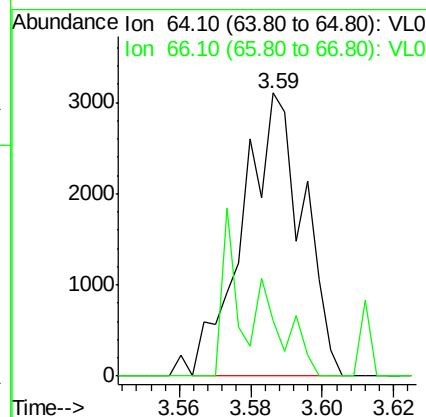
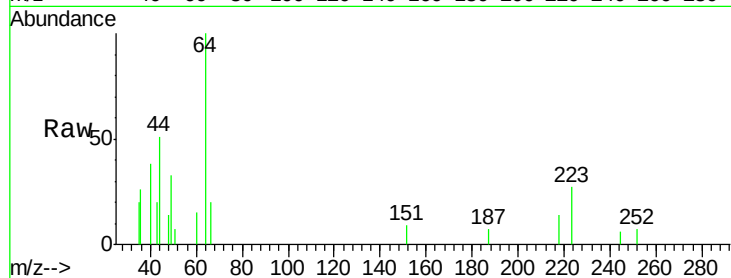
ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion: 64 Resp: 3635
 Ion Ratio Lower Upper
 64 100
 66 19.6 25.3 37.9#

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#8

Dichlorotetrafluoroethane

Concen: 0.148 ppbv

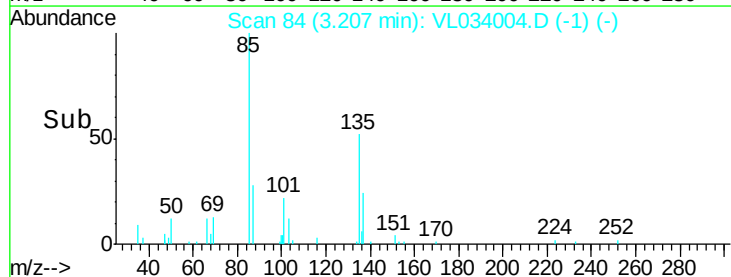
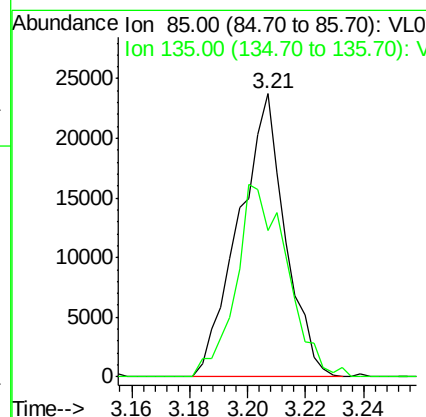
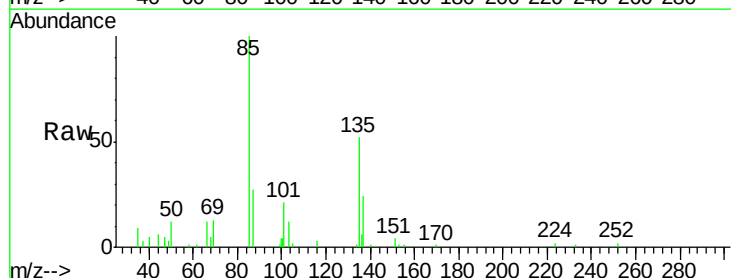
RT: 3.21 min Scan# 84

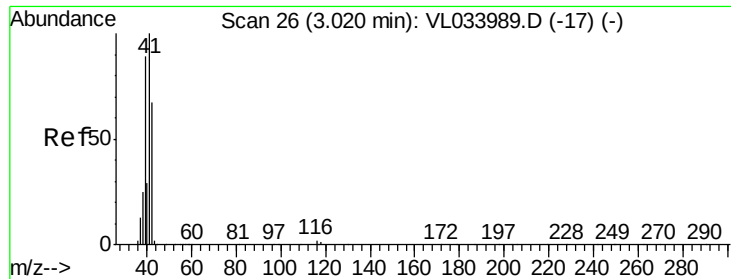
Delta R.T. 0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Tgt Ion: 85 Resp: 26436
 Ion Ratio Lower Upper
 85 100
 135 75.0 55.0 82.4





#9

Propene

Concen: 0.143 ppbv m

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 41 Resp: 5779

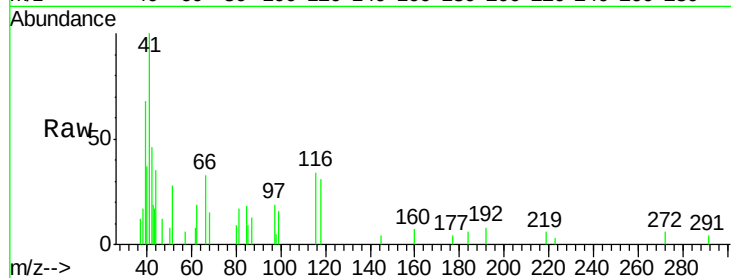
Ion Ratio Lower Upper

41 100

42 64.2 57.1 85.7

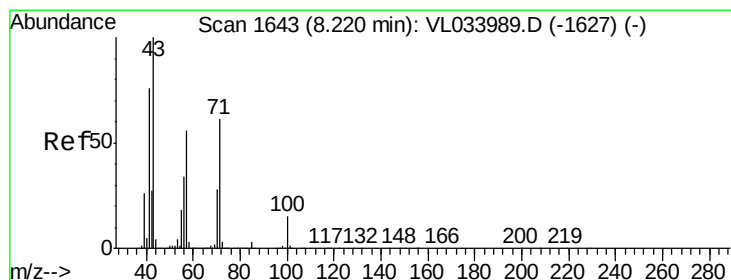
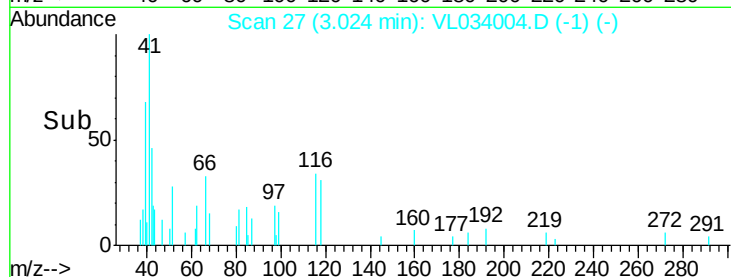
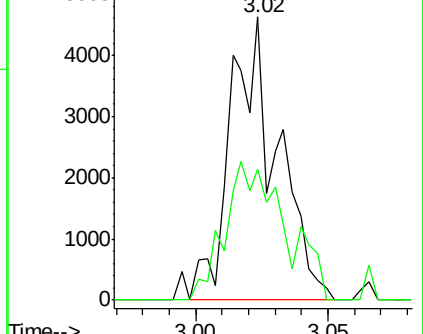
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.067 ppbv m

RT: 8.21 min Scan# 1640

Delta R.T. -0.01 min

Lab File: VL034004.D

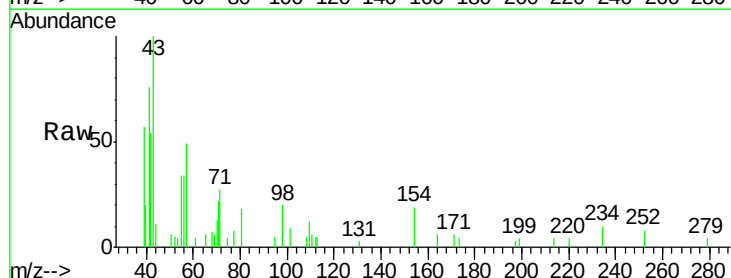
Acq: 3 Jul 2019 3:47

Tgt Ion: 43 Resp: 6811

Ion Ratio Lower Upper

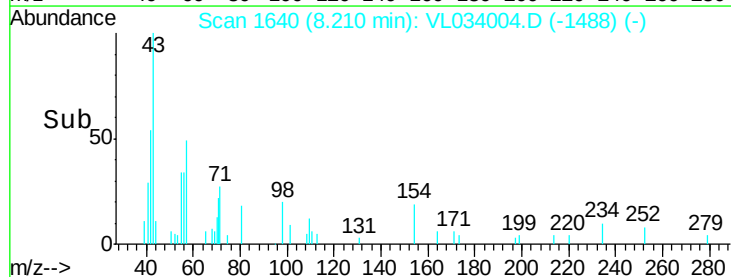
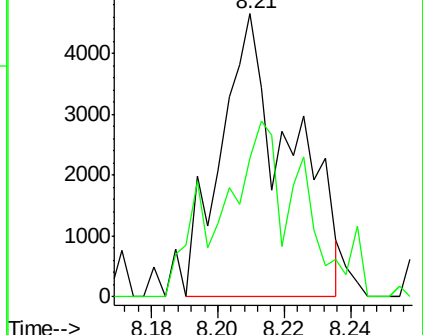
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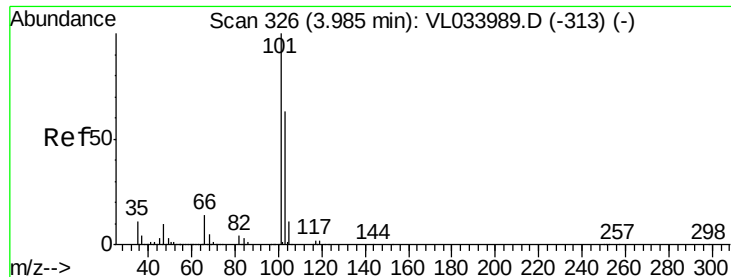
57 72.4 44.6 66.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





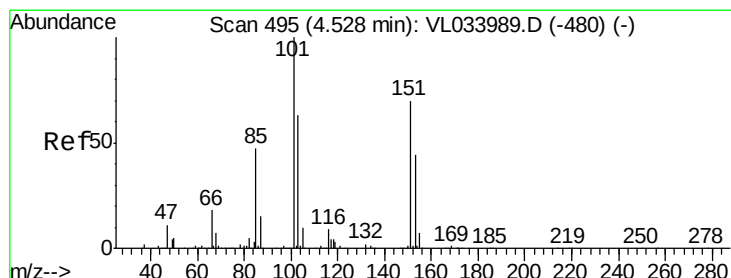
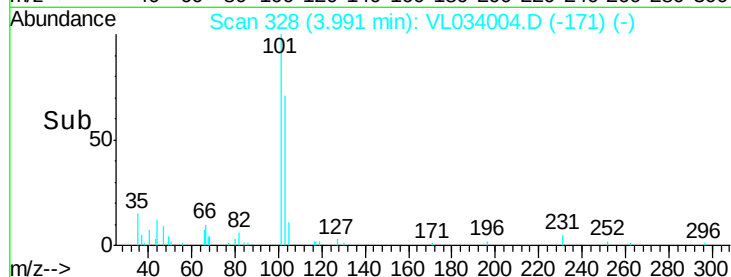
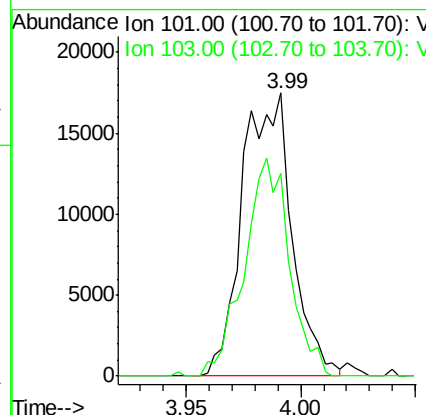
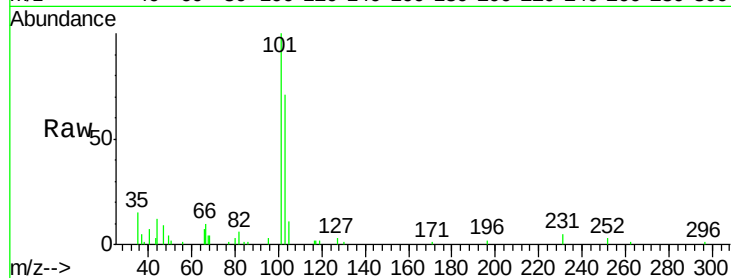
#11
 Trichlorofluoromethane
 Concen: 0.127 ppbv m
 RT: 3.99 min Scan# 328
 Delta R.T. 0.01 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		26248		
103	71.4	50.8			76.2

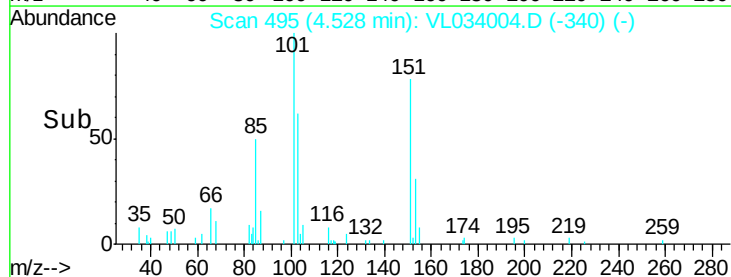
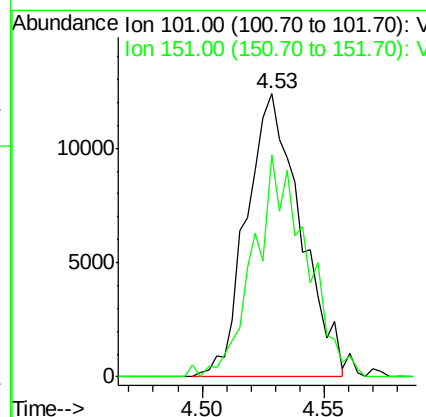
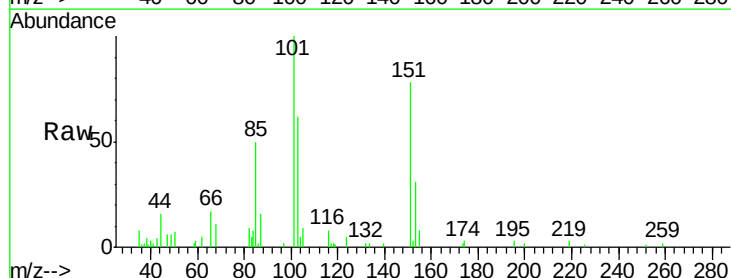
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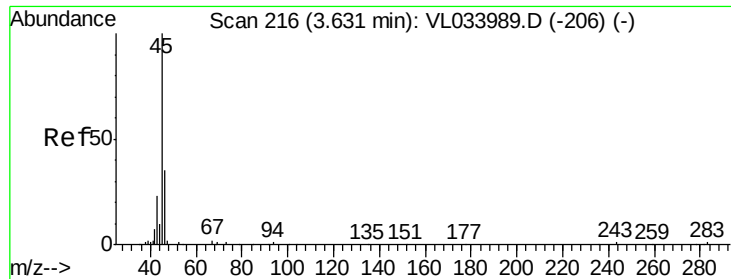
MMDadoda
 7/3/2019 11:03:44 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.130 ppbv
 RT: 4.53 min Scan# 495
 Delta R.T. -0.00 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
101	100		18988		
151	76.5	59.0			88.4





#13

Ethanol

Concen: 0.135 ppbv m

RT: 3.65 min Scan# 223

Delta R.T. 0.02 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion: 45 Resp: 1698

Ion Ratio Lower Upper

45 100

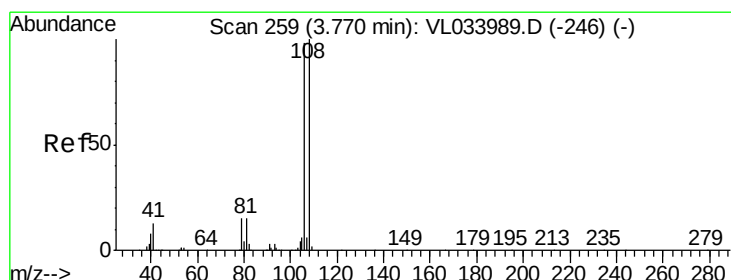
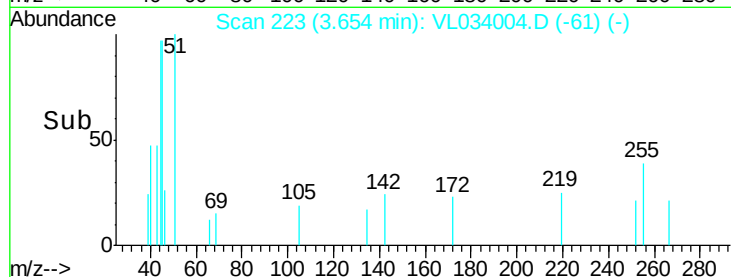
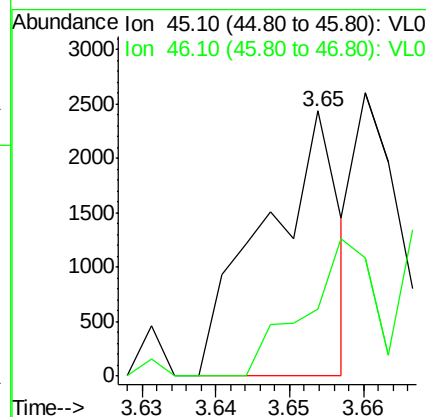
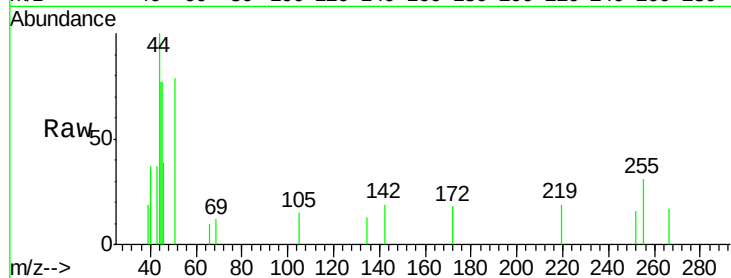
46 5.6 16.2 64.6#

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#14

Bromoethene

Concen: 0.145 ppbv

RT: 3.77 min Scan# 259

Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

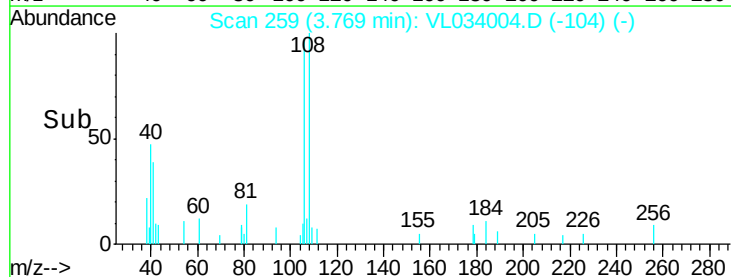
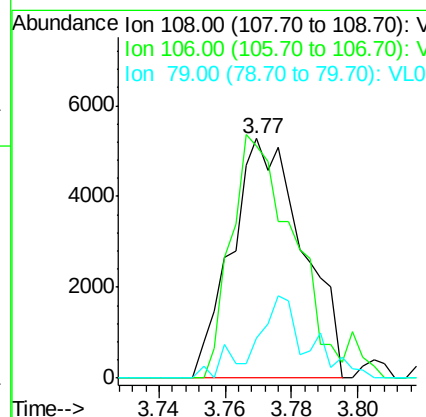
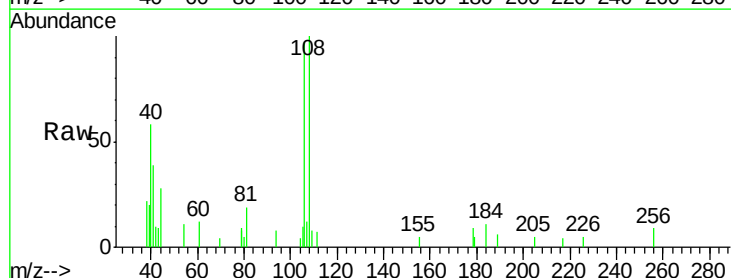
Tgt Ion: 108 Resp: 7905

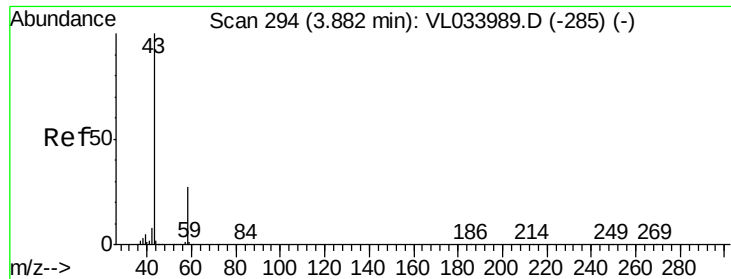
Ion Ratio Lower Upper

108 100

106 92.4 85.6 128.4

79 25.4 14.0 21.0#





#15

Acetone

Concen: 0.151 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.03 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion: 43 Resp: 22531

Ion Ratio Lower Upper

43 100

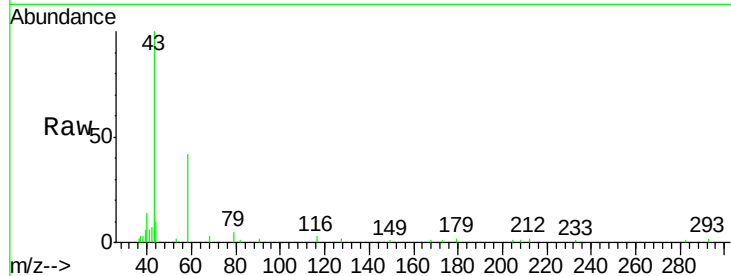
58 34.0 21.4 32.0#

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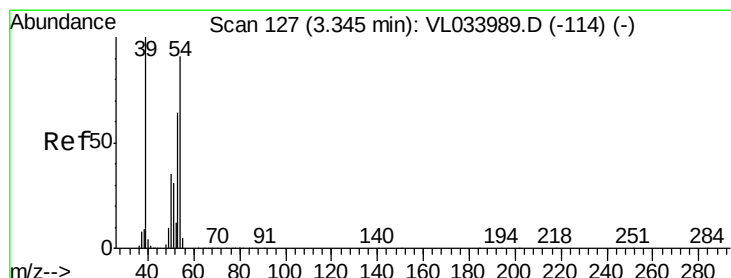
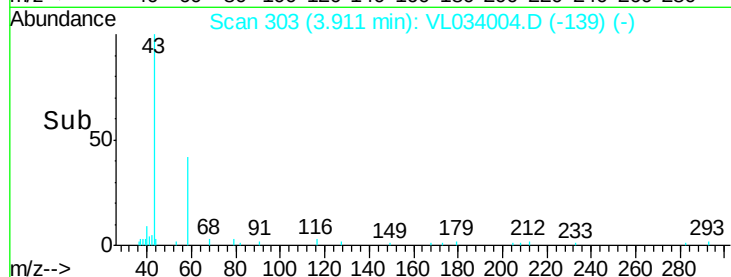
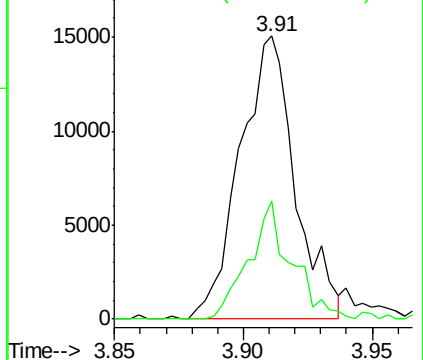
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.118 ppbv m

RT: 3.35 min Scan# 128

Delta R.T. 0.00 min

Lab File: VL034004.D

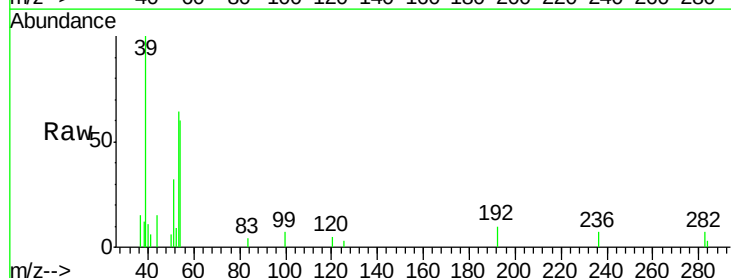
Acq: 3 Jul 2019 3:47

Tgt Ion: 39 Resp: 6226

Ion Ratio Lower Upper

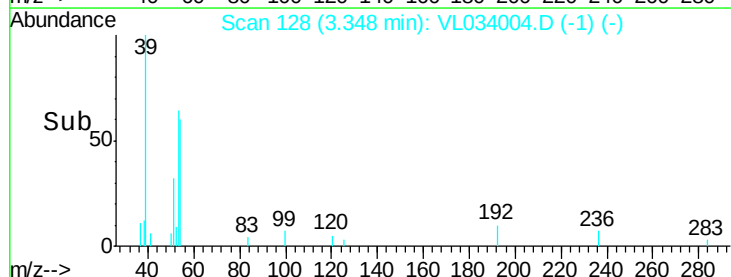
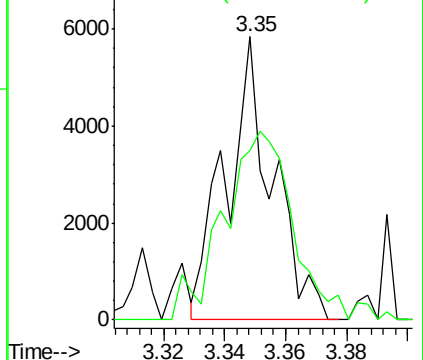
39 100

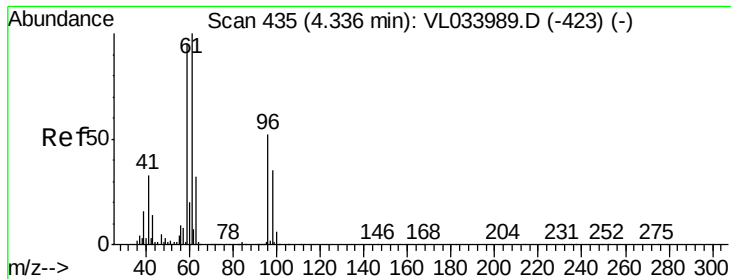
54 0.0 71.4 107.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.142 ppbv m

RT: 4.37 min Scan# 445

Delta R.T. 0.03 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion: 59 Resp: 16907

Ion Ratio Lower Upper

59 100

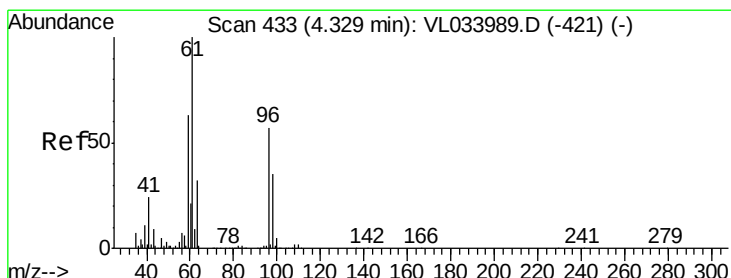
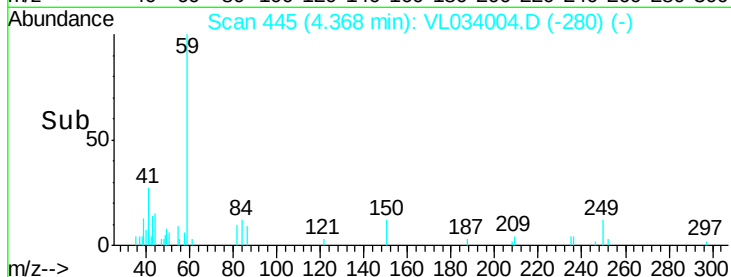
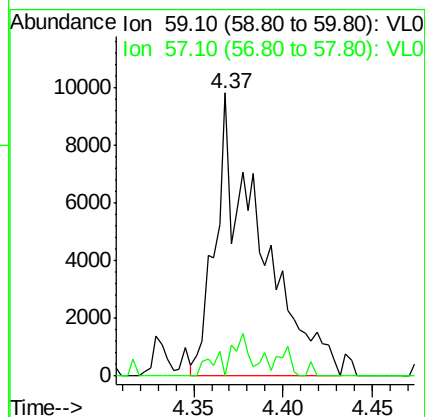
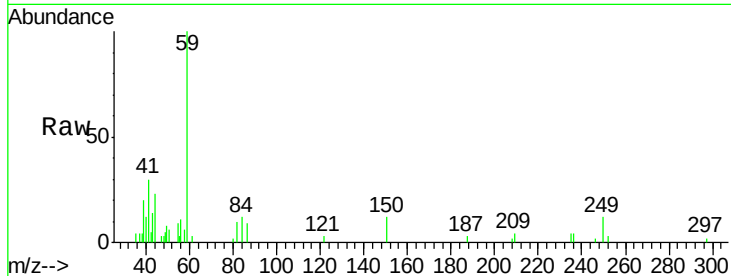
57 0.0 8.2 12.2#

Manual Integrations

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#18

1,1-Dichloroethene

Concen: 0.122 ppbv m

RT: 4.33 min Scan# 433

Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

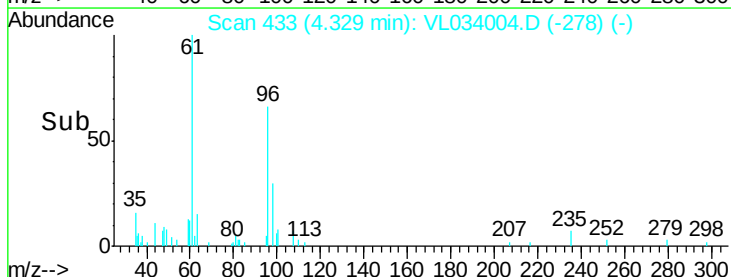
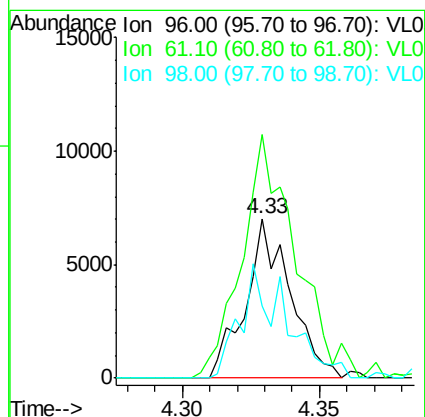
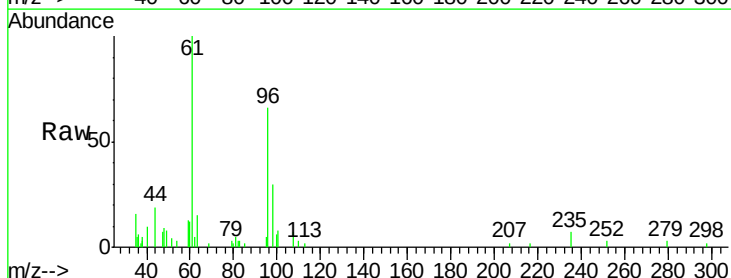
Tgt Ion: 96 Resp: 7961

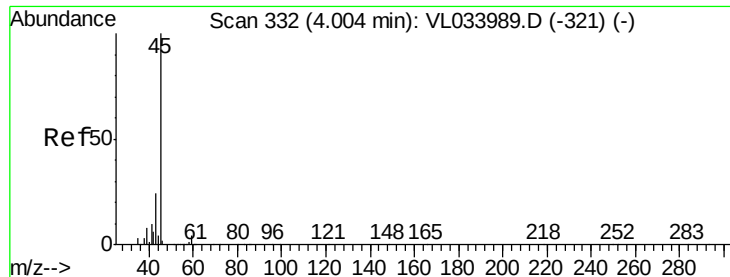
Ion Ratio Lower Upper

96 100

61 152.5 139.4 209.0

98 45.3 49.4 74.0#





#19

Isopropyl Alcohol

Concen: 0.161 ppbv m

RT: 4.04 min Scan# 343

Delta R.T. 0.04 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion: 45 Resp: 16151

Ion Ratio Lower Upper

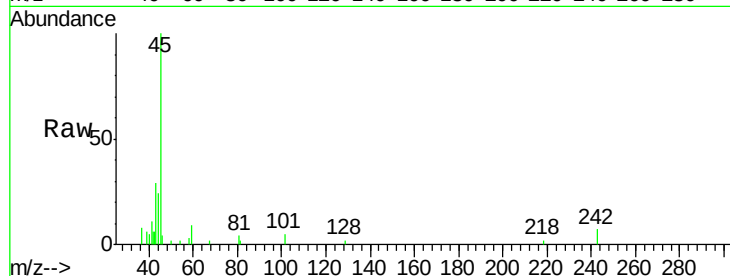
45 100

58 1.5 1.7 2.5#

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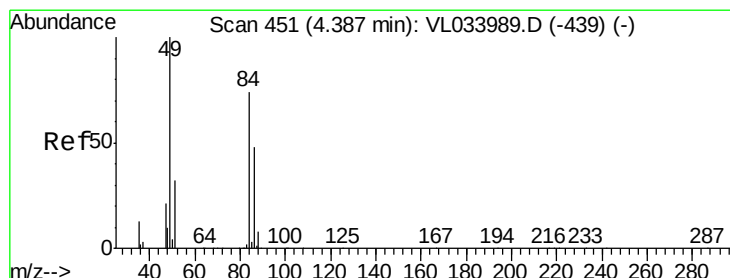
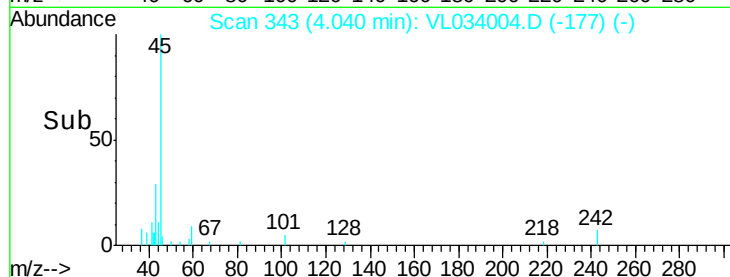
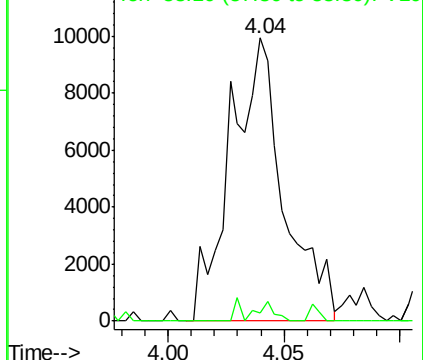
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.192 ppbv m

RT: 4.39 min Scan# 452

Delta R.T. 0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Tgt Ion: 84 Resp: 12553

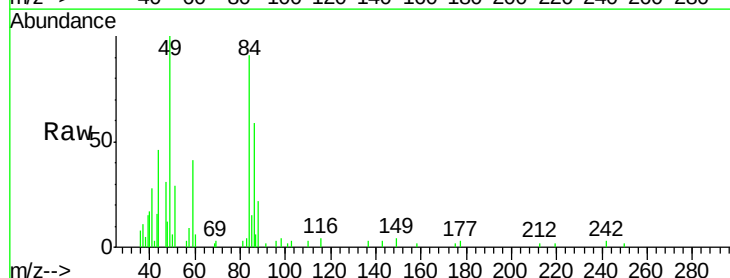
Ion Ratio Lower Upper

84 100

49 109.5 107.6 161.4

51 32.1 35.0 52.6#

86 64.5 52.1 78.1

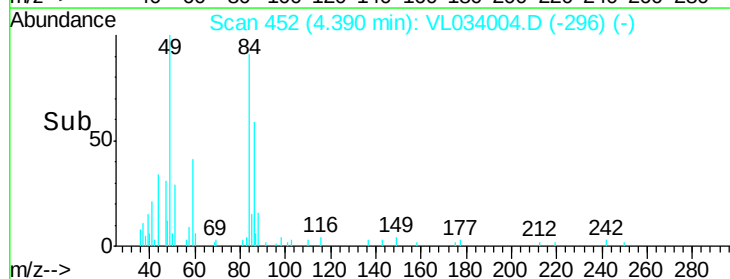
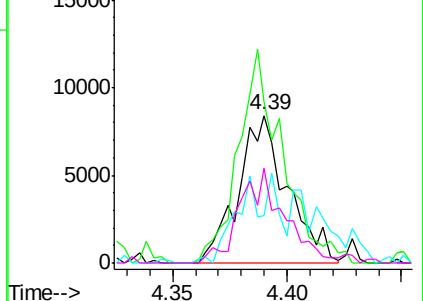


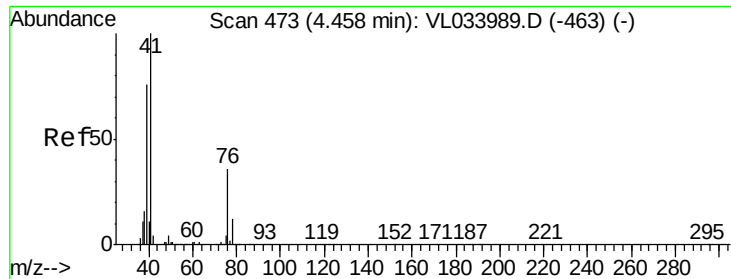
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 0.126 ppbv m

RT: 4.45 min Scan# 471

Delta R.T. -0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

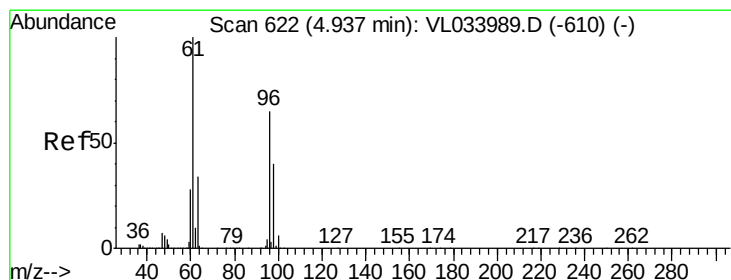
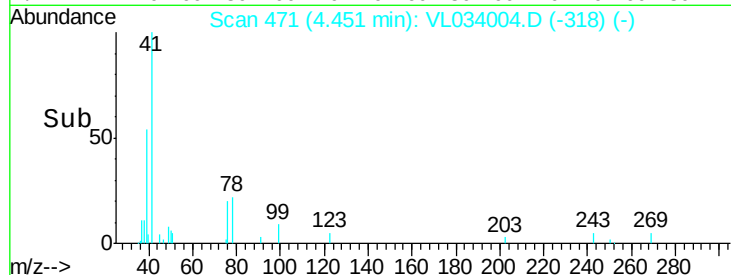
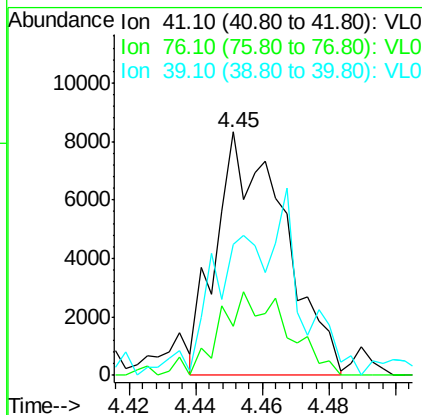
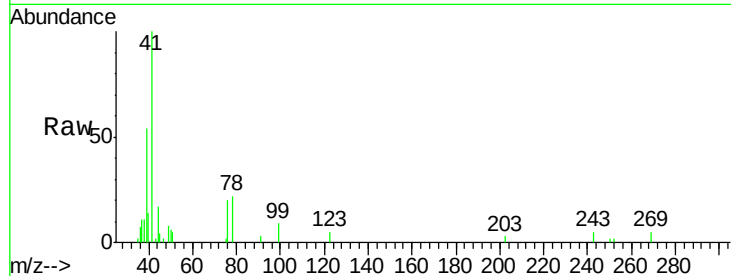
ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion:	41	Resp:	11784
Ion Ratio	Lower	Upper	
41	100		
76	34.6	26.8	40.2
39	0.0	63.1	94.7#

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#22

trans-1,2-Dichloroethene

Concen: 0.137 ppbv

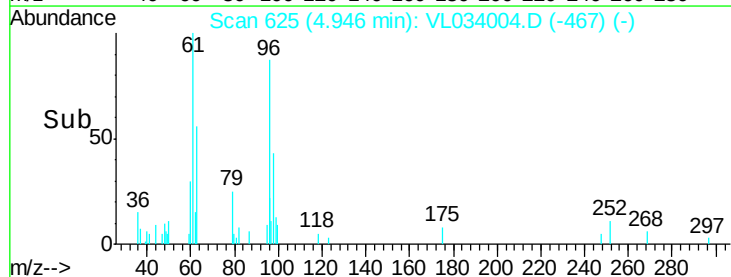
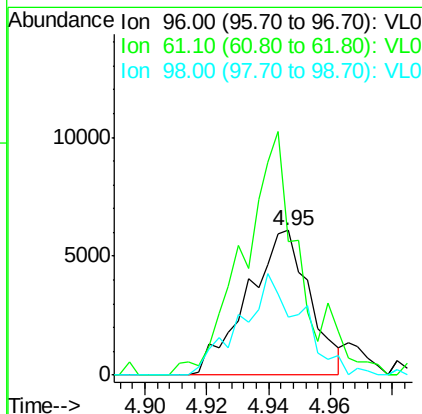
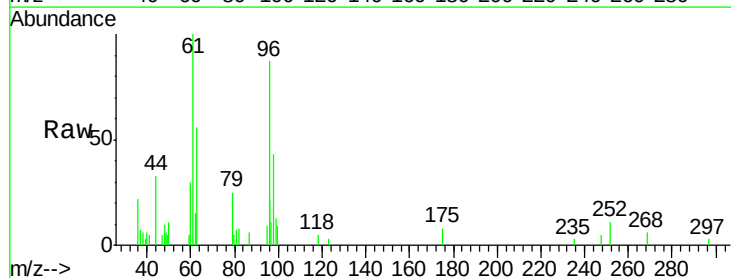
RT: 4.95 min Scan# 625

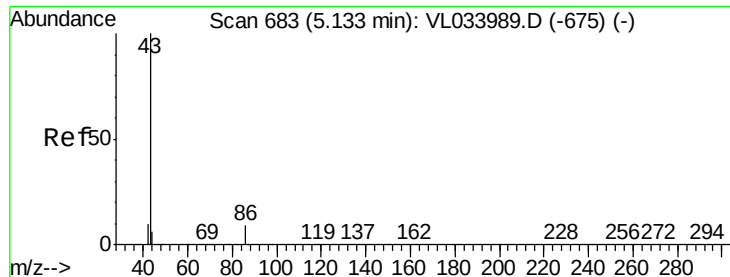
Delta R.T. 0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Tgt Ion:	96	Resp:	8497
Ion Ratio	Lower	Upper	
96	100		
61	82.6	122.9	184.3#
98	51.9	49.6	74.4





#23

Vinyl Acetate

Concen: 0.116 ppbv m

RT: 5.14 min Scan# 685

Delta R.T. 0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

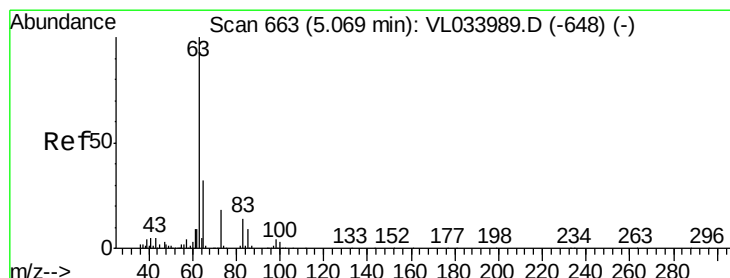
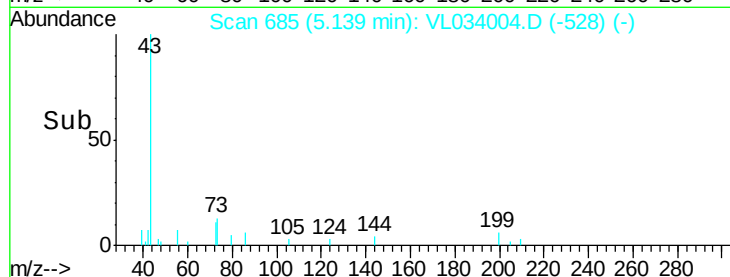
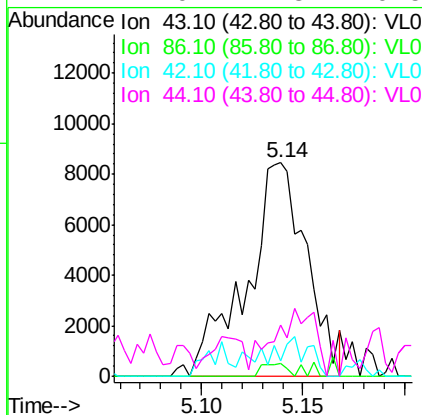
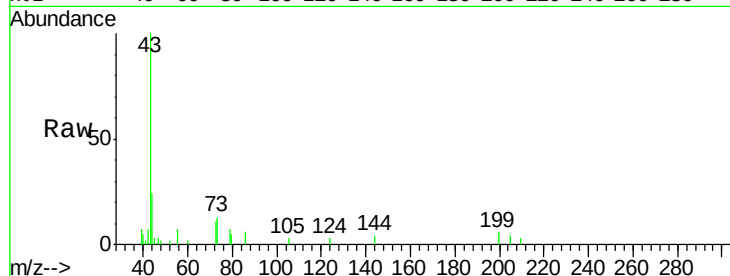
ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	6.3	6.6	9.8#	
42	7.3	8.3	12.5#	
44	24.0	4.3	6.5#	

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 0.121 ppbv m

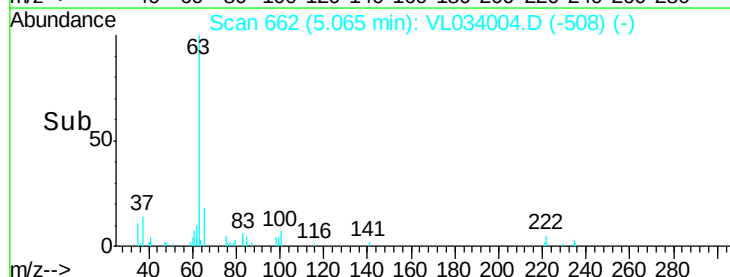
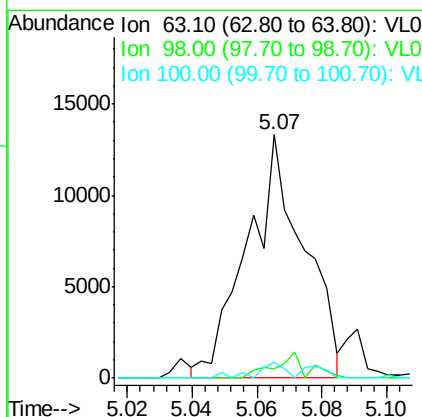
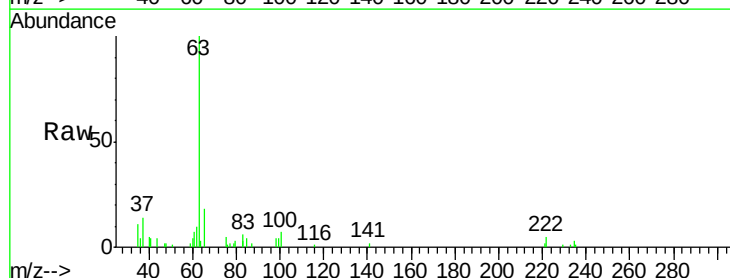
RT: 5.07 min Scan# 662

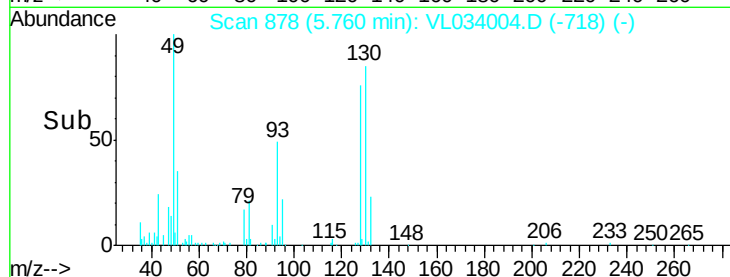
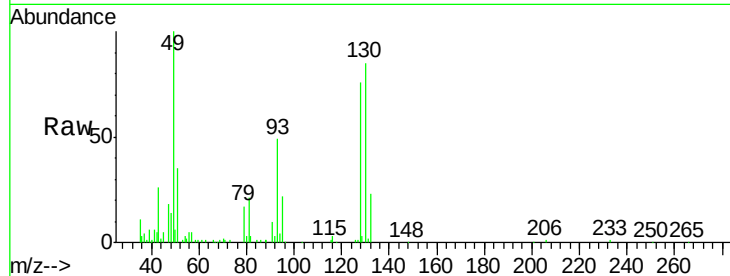
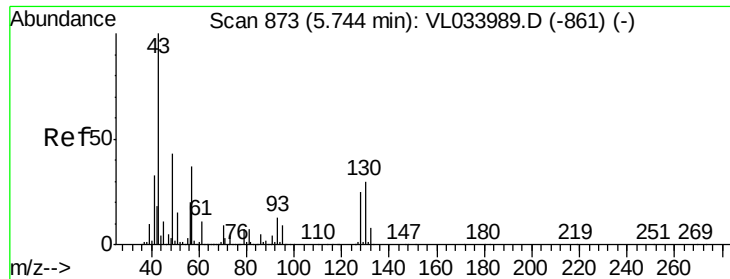
Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	3.8	2.2	6.6	
100	6.6	1.4	4.2#	





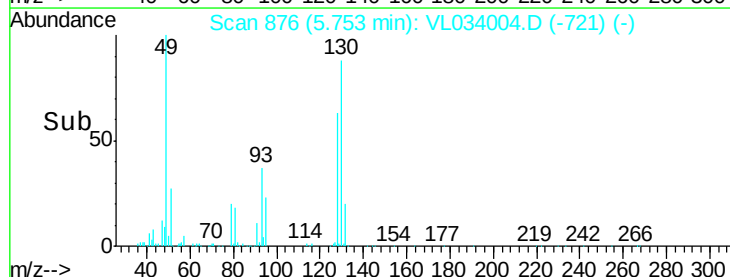
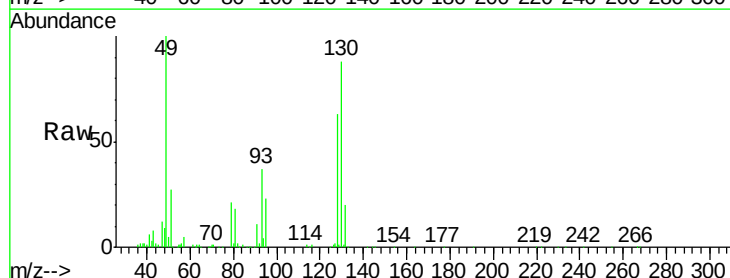
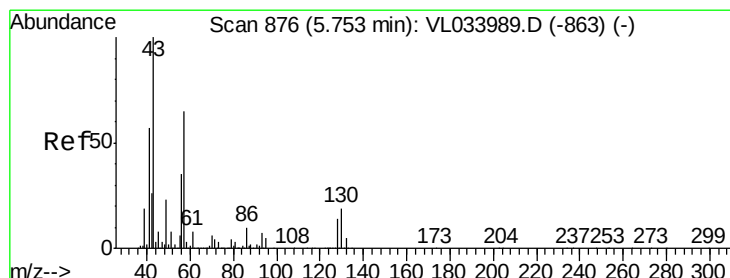
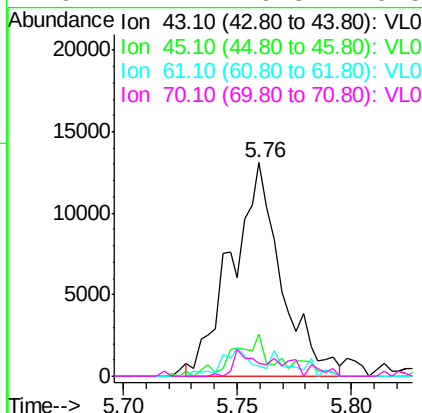
#25
Ethyl Acetate
Concen: 0.097 ppbv m
RT: 5.76 min Scan# 878
Delta R.T. 0.02 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tot Ion	43	Resp:	19810
Ion Ratio	Lower	Upper	
43	100		
45	0.0	8.1	12.1#
61	13.6	8.1	12.1#
70	11.1	6.3	9.5#

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2019

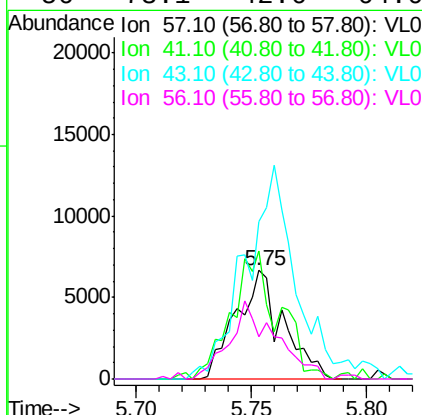
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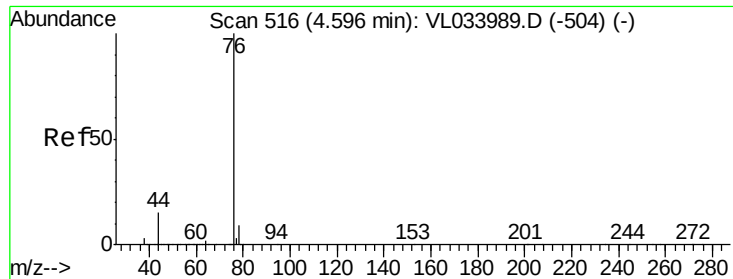
MMDadoda
7/3/2019 11:03:44 PM



#26
Hexane
Concen: 0.101 ppbv m
RT: 5.75 min Scan# 876
Delta R.T. -0.00 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion	57	Resp:	9487
Ion Ratio	Lower	Upper	
57	100		
41	0.0	70.6	105.8#
43	0.0	177.6	266.4#
56	73.1	42.6	64.0#





#27

Carbon Disulfide

Concen: 0.113 ppbv m

RT: 4.61 min Scan# 519

Delta R.T. 0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

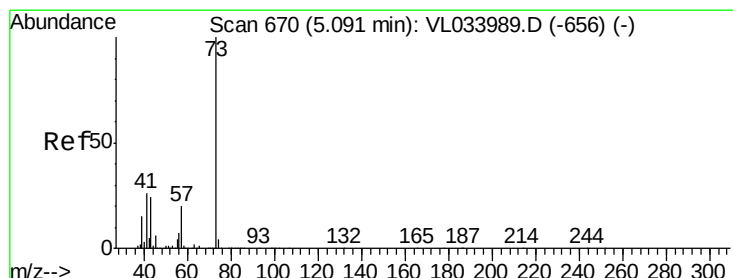
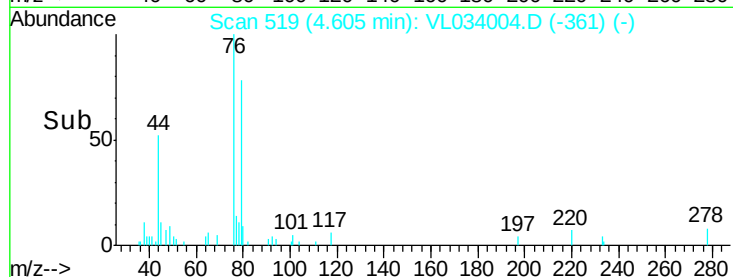
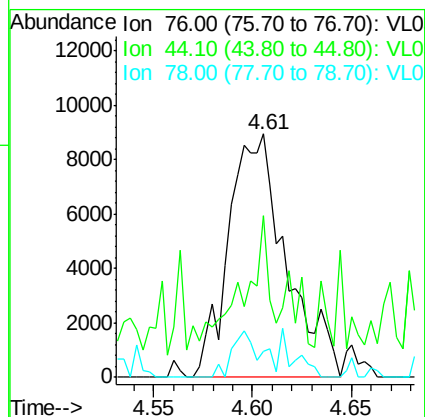
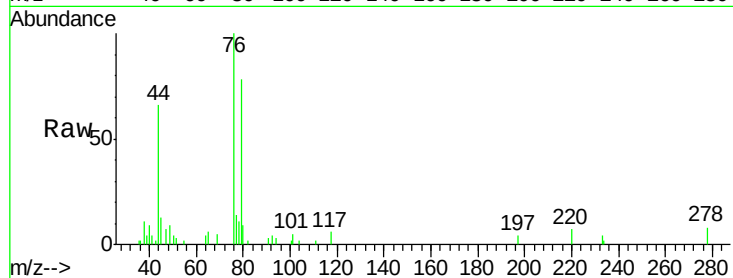
ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion:	76	Resp:	17948
Ion Ratio	Lower	Upper	
76	100		
44	0.0	12.6	18.8#
78	9.4	7.2	10.8

Manual Integrations
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7/3/2019 11:03:44 PM



#28

Methyl tert-Butyl Ether

Concen: 0.088 ppbv m

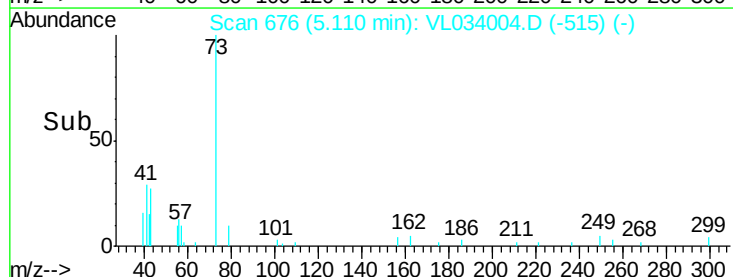
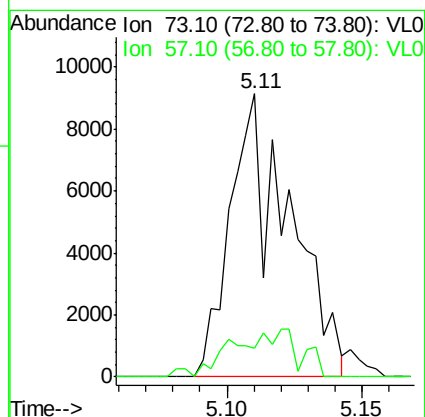
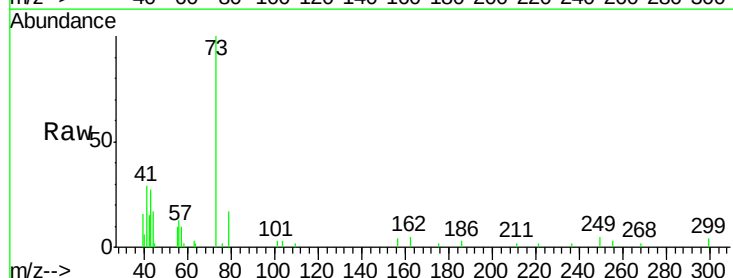
RT: 5.11 min Scan# 676

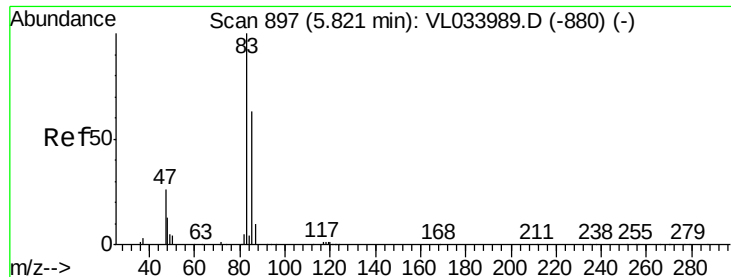
Delta R.T. 0.02 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Tgt Ion:	73	Resp:	13883
Ion Ratio	Lower	Upper	
73	100		
57	1.2	16.9	25.3#





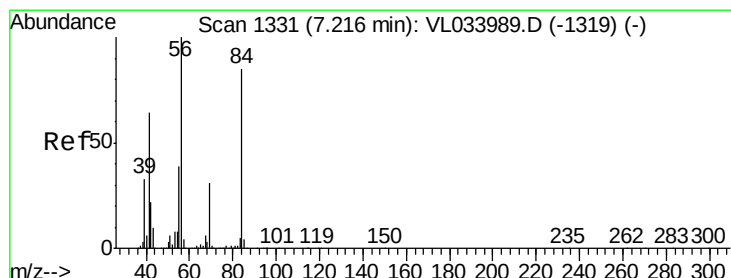
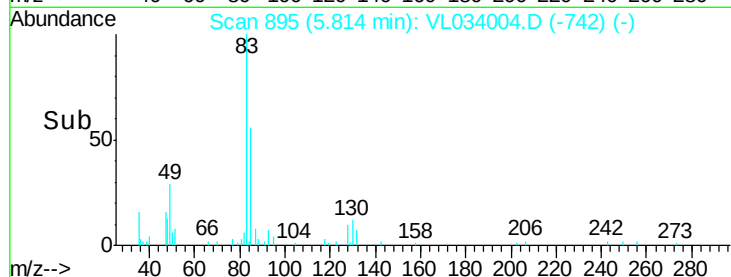
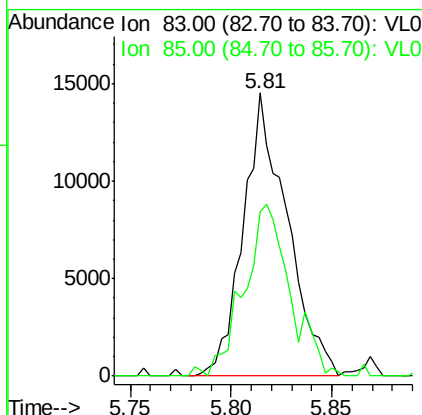
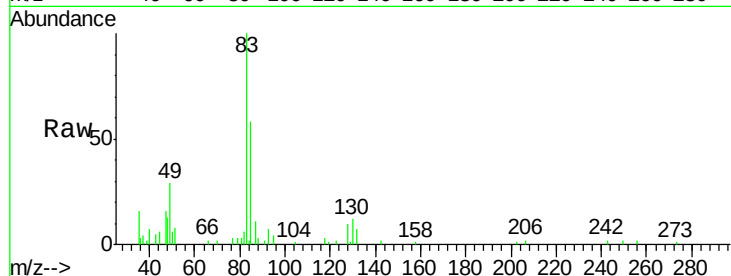
#29
Chloroform
Concen: 0.126 ppbv
RT: 5.81 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2019

Tot Ion: 83 Resp: 22133
Ion Ratio Lower Upper
83 100
85 57.8 50.6 75.8

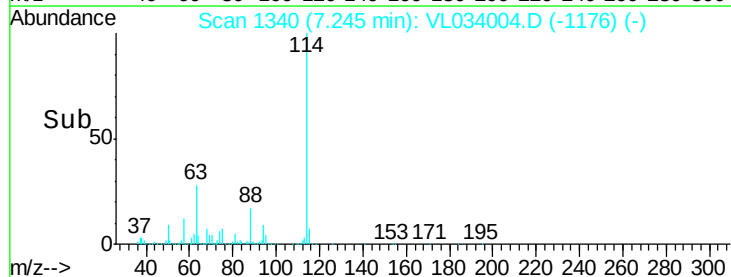
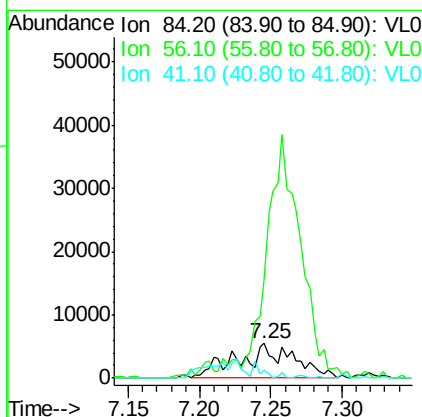
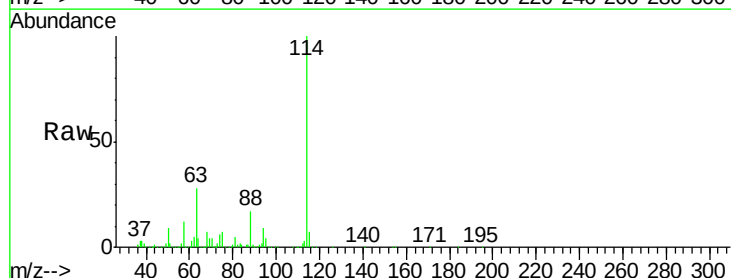
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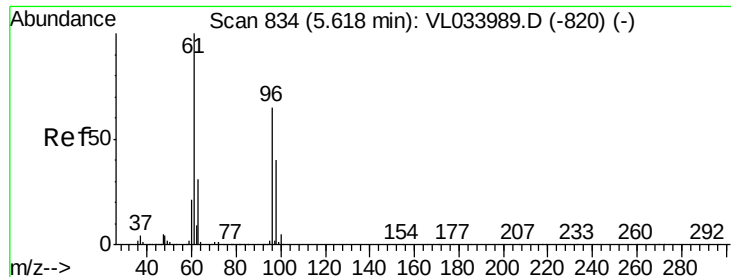
MMDadoda
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#30
Cyclohexane
Concen: 0.206 ppbv m
RT: 7.25 min Scan# 1340
Delta R.T. 0.03 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion: 84 Resp: 14899
Ion Ratio Lower Upper
84 100
56 0.0 103.7 155.5#
41 0.0 62.6 94.0#





#31

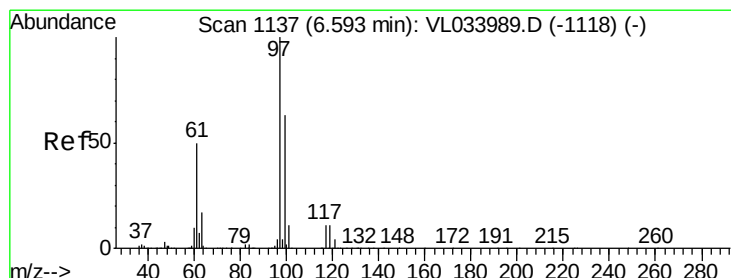
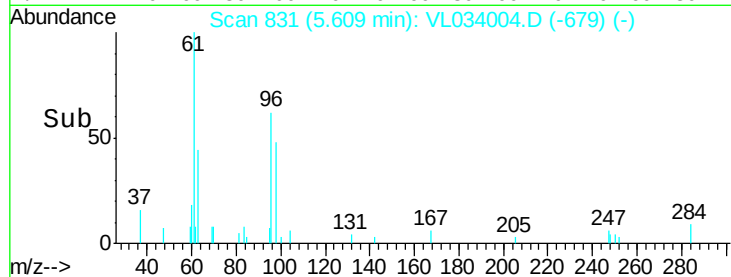
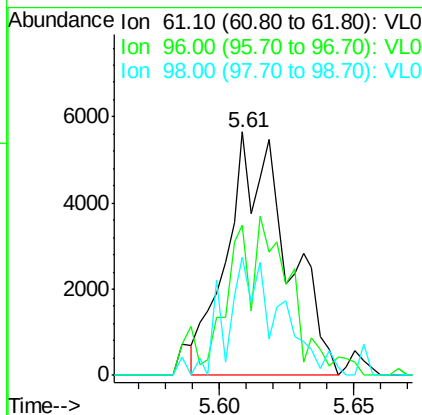
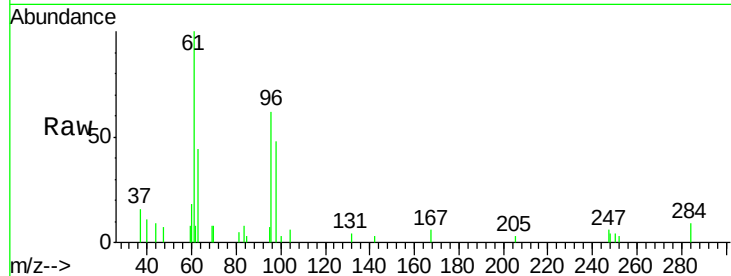
cis-1,2-Dichloroethene
 Concen: 0.097 ppbv
 RT: 5.61 min Scan# 831
 Delta R.T. -0.01 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.7	51.8	77.6
98	48.4	32.1	48.1#

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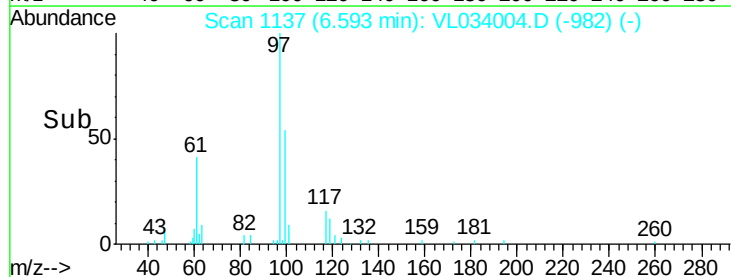
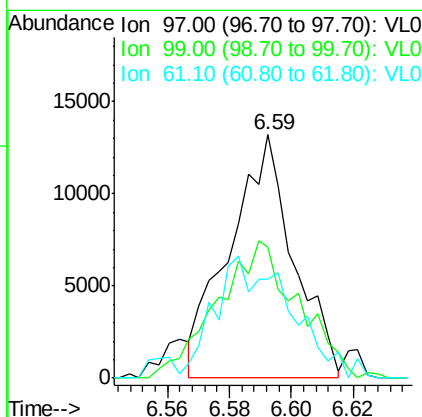
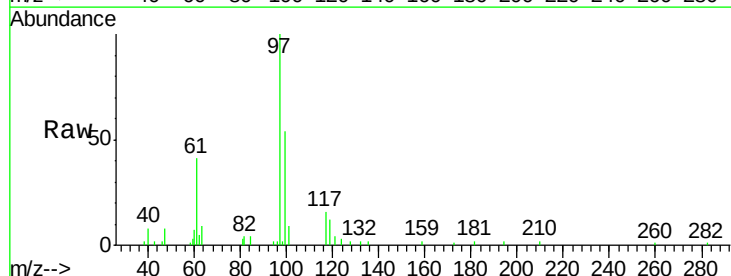
MMDadoda
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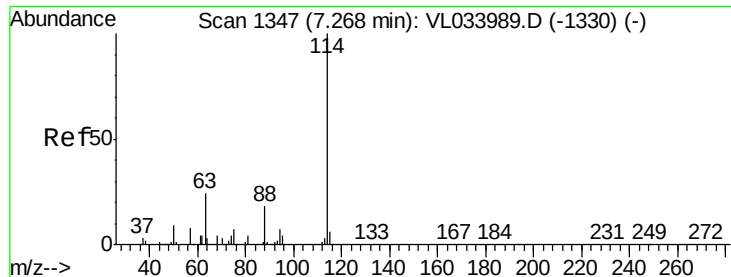


#32

1,1,1-Trichloroethane
 Concen: 0.107 ppbv
 RT: 6.59 min Scan# 1137
 Delta R.T. -0.00 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	71.2	51.9	77.9
61	63.1	39.8	59.8#





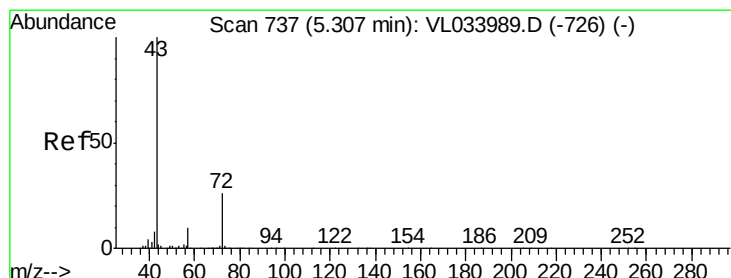
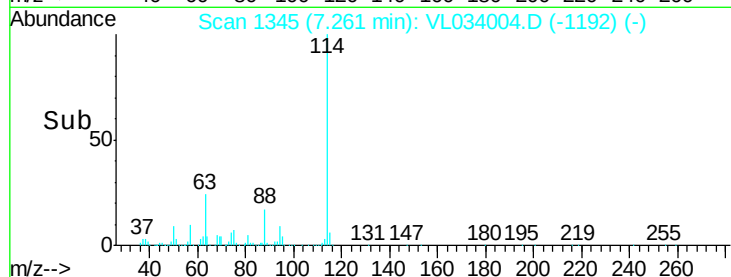
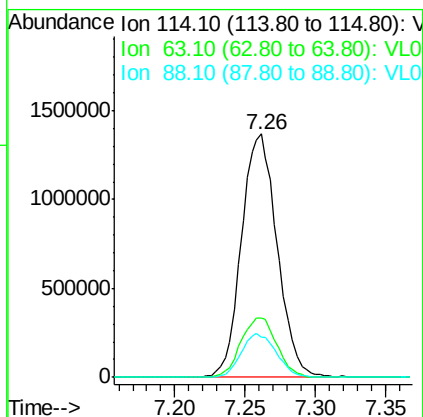
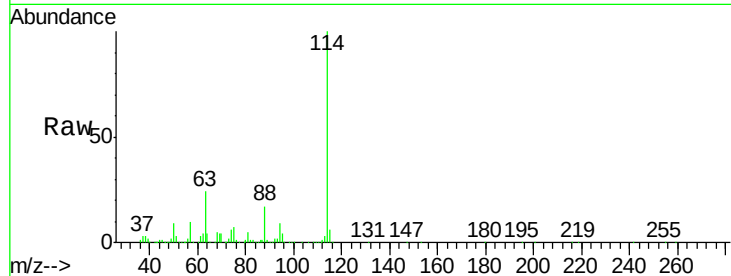
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.26 min Scan# 1345
 Delta R.T. -0.01 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2019

Tot Ion:114 Resp: 242554
 Ion Ratio Lower Upper
 114 100
 63 25.0 20.2 30.2
 88 17.7 14.1 21.1

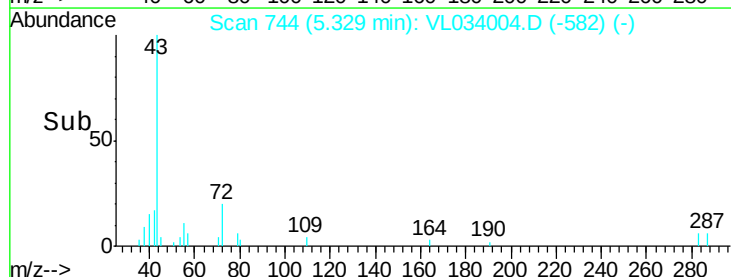
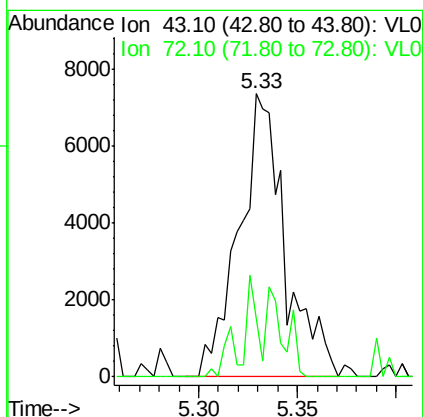
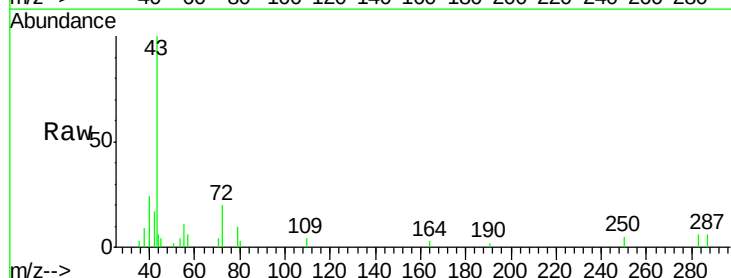
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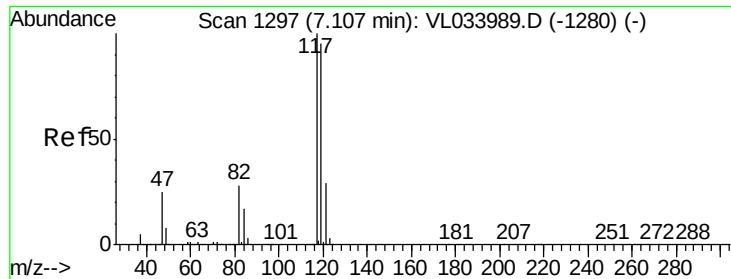
MMDadoda
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#34
 2-Butanone
 Concen: 0.093 ppbv m
 RT: 5.33 min Scan# 744
 Delta R.T. 0.02 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Tgt Ion: 43 Resp: 11988
 Ion Ratio Lower Upper
 43 100
 72 0.0 19.9 29.9#





#35

Carbon Tetrachloride

Concen: 0.121 ppbv m

RT: 7.10 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

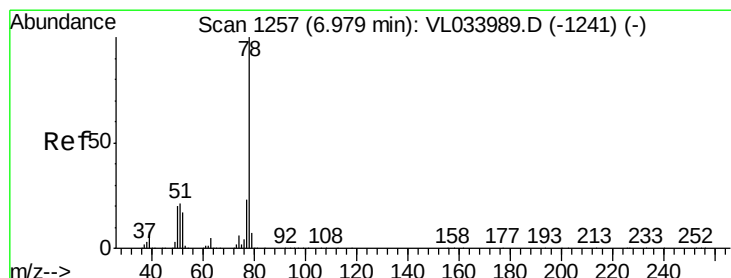
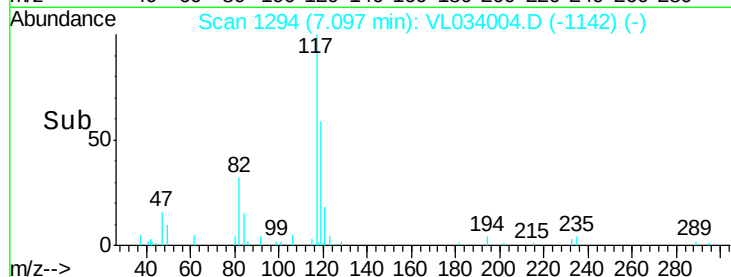
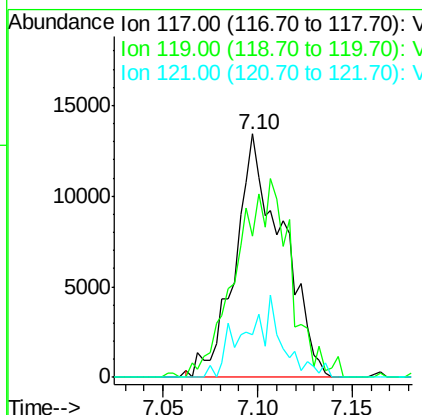
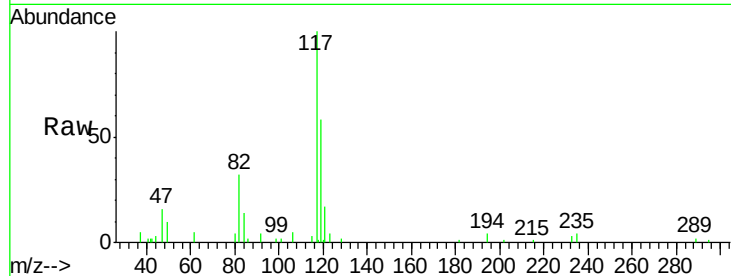
ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion:	117	Resp:	23300
Ion Ratio	Lower	Upper	
117	100		
119	58.2	75.8	113.6#
121	17.3	23.4	35.2#

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#36

Benzene

Concen: 0.087 ppbv

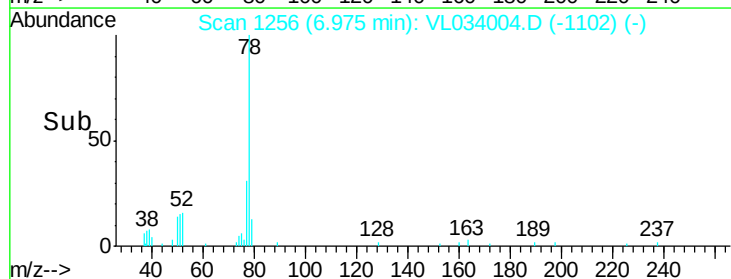
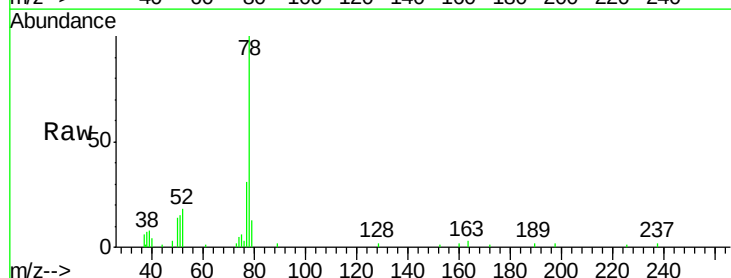
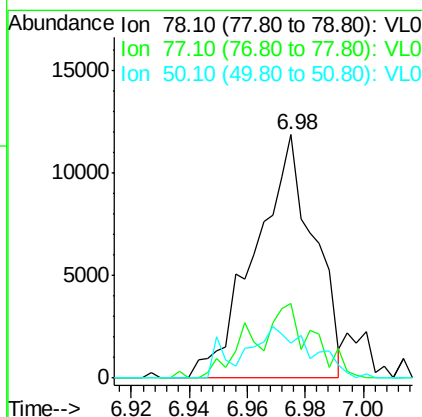
RT: 6.98 min Scan# 1256

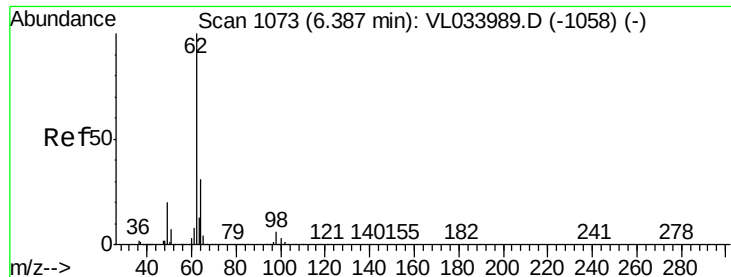
Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Tgt Ion:	78	Resp:	16568
Ion Ratio	Lower	Upper	
78	100		
77	30.6	18.7	28.1#
50	14.3	16.2	24.2#





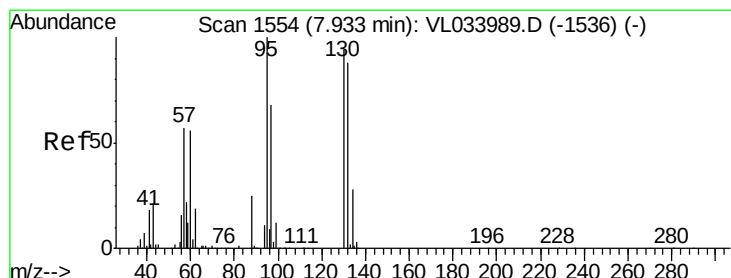
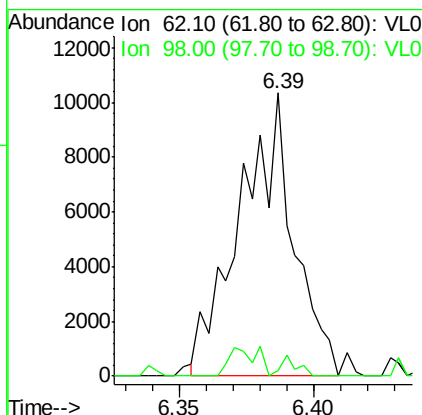
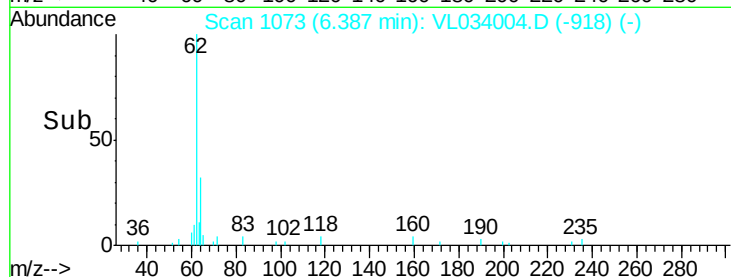
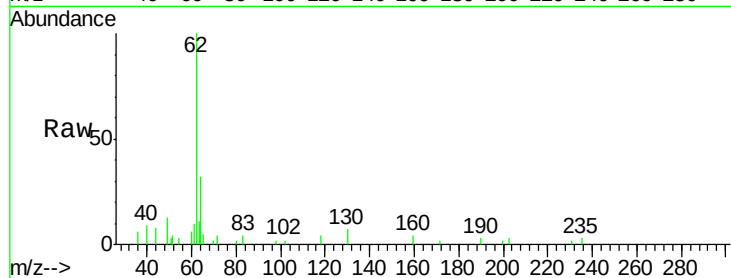
#37
 1,2-Dichloroethane
 Concen: 0.103 ppbv m
 RT: 6.39 min Scan# 1073
 Delta R.T. -0.00 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
62	100		
98	7.5	4.4	6.6#

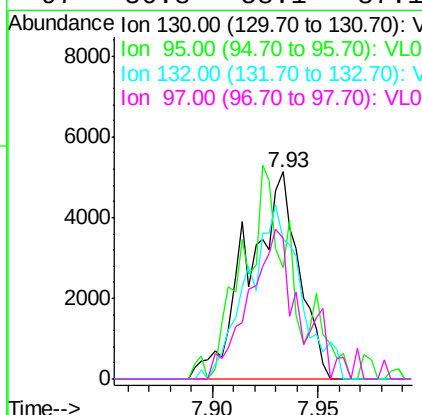
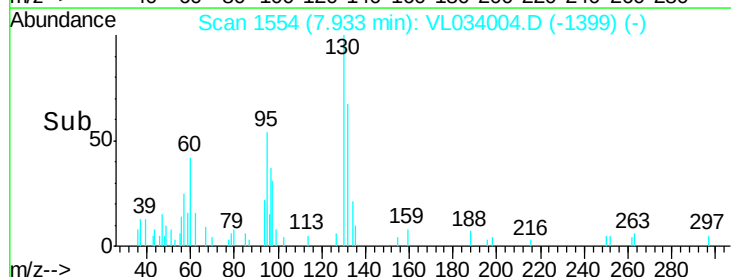
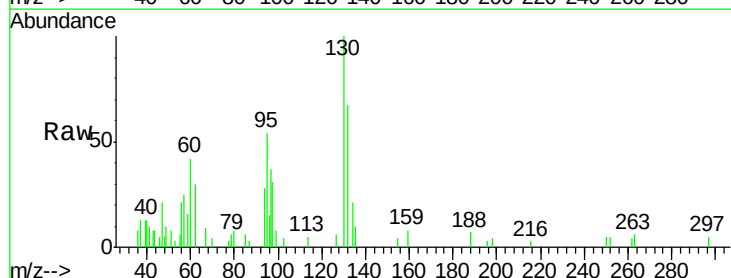
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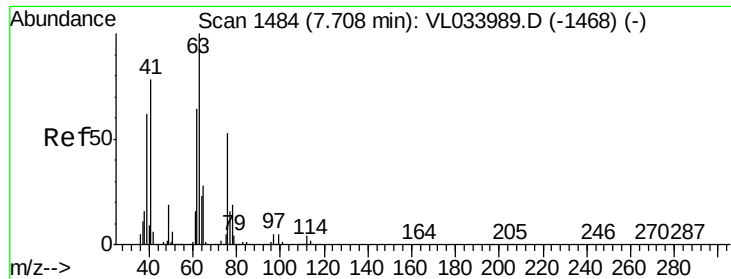
MMDadoda
 7/3/2019 11:03:44 PM



#38
 Trichloroethene
 Concen: 0.102 ppbv m
 RT: 7.93 min Scan# 1554
 Delta R.T. -0.00 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Tgt Ion	Ratio	Lower	Upper
130	100		
95	53.6	85.5	128.3#
132	67.4	75.1	112.7#
97	36.8	58.1	87.1#





#39

1,2-Dichloropropane

Concen: 0.139 ppbv m

RT: 7.71 min Scan# 1483

Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

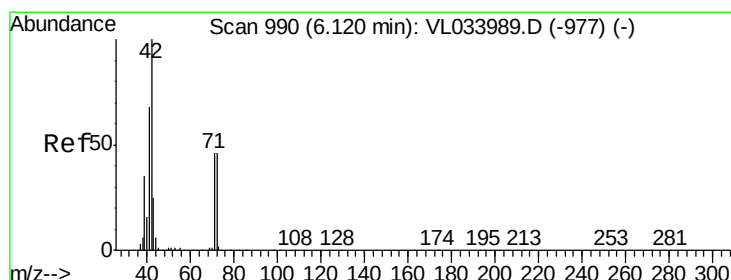
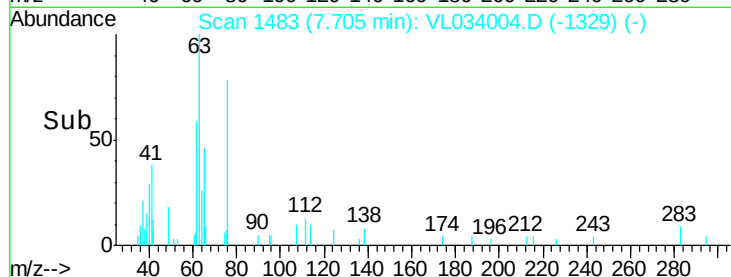
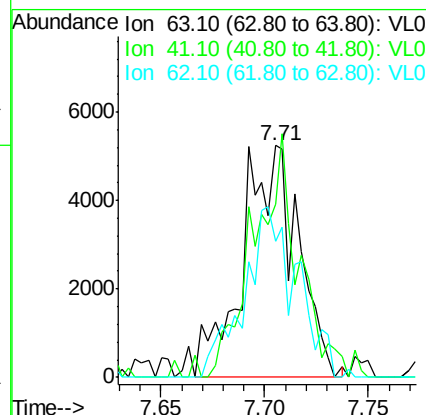
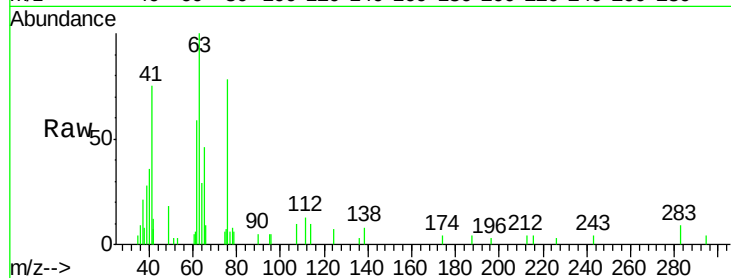
ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion:	63	Resp:	9809
Ion	Ratio	Lower	Upper
63	100		
41	74.8	62.3	93.5
62	58.8	51.4	77.2

Manual Integrations
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#41

Tetrahydrofuran

Concen: 0.089 ppbv m

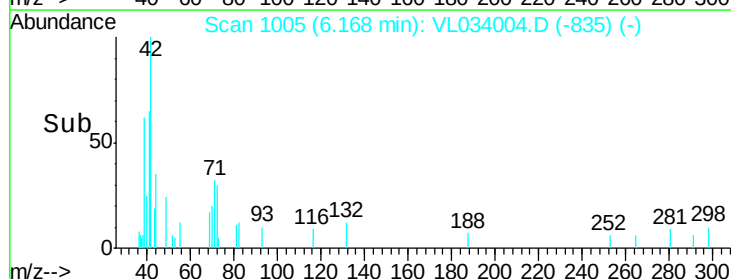
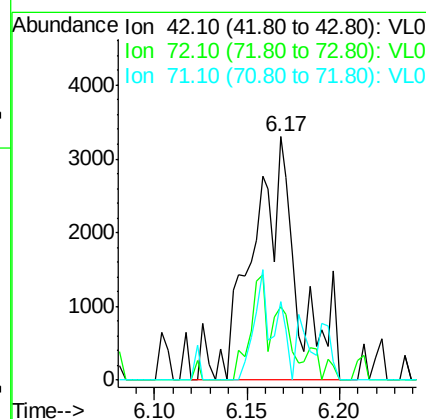
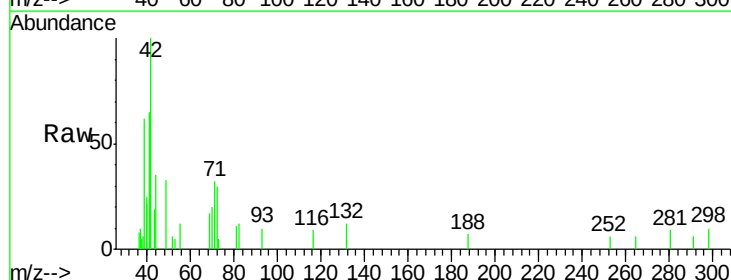
RT: 6.17 min Scan# 1005

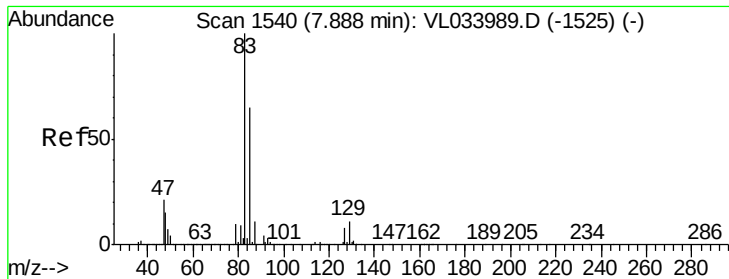
Delta R.T. 0.05 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Tgt Ion:	42	Resp:	5601
Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.3	55.9#
71	0.0	36.2	54.2#





#42

Bromodichloromethane

Concen: 0.112 ppbv m

RT: 7.88 min Scan# 1537

Delta R.T. -0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

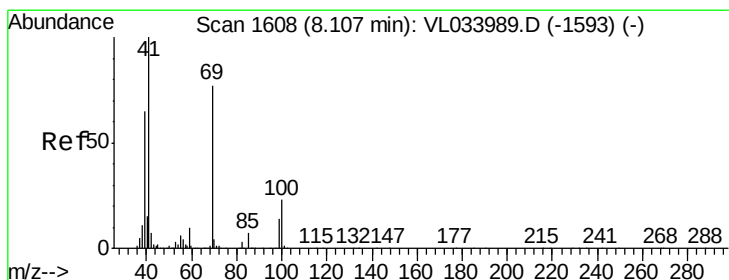
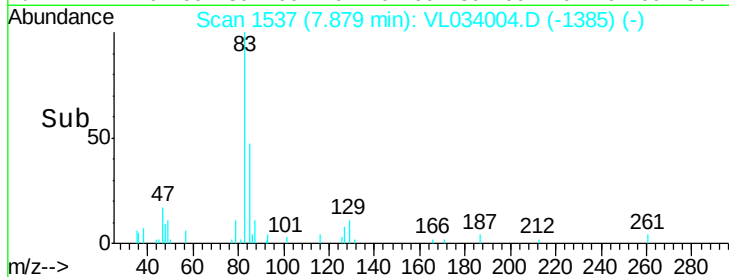
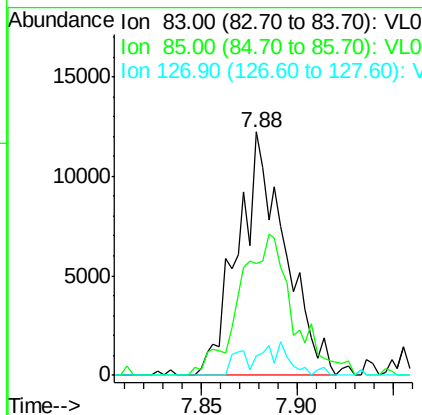
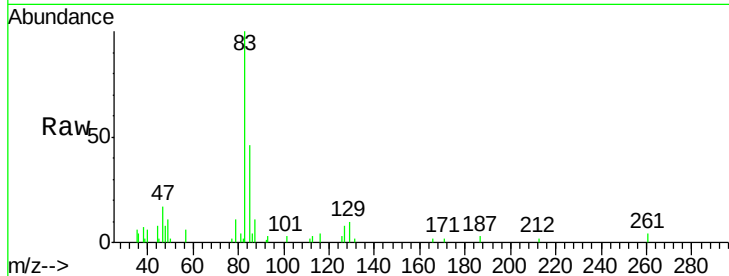
ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion:	83	Resp:	20990
Ion Ratio	Lower	Upper	
83	100		
85	45.7	51.8	77.8#
127	8.0	6.5	9.7

Manual Integrations
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#43

Methyl Methacrylate

Concen: 0.073 ppbv m

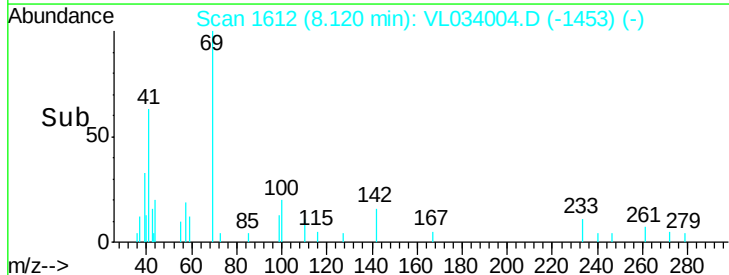
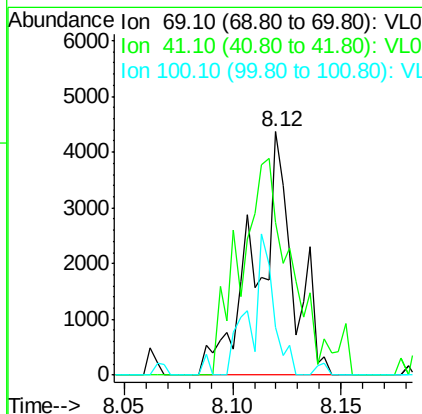
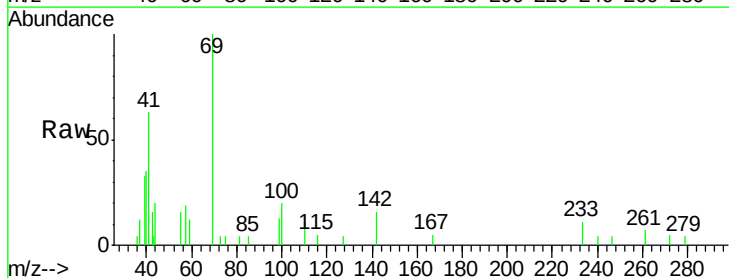
RT: 8.12 min Scan# 1612

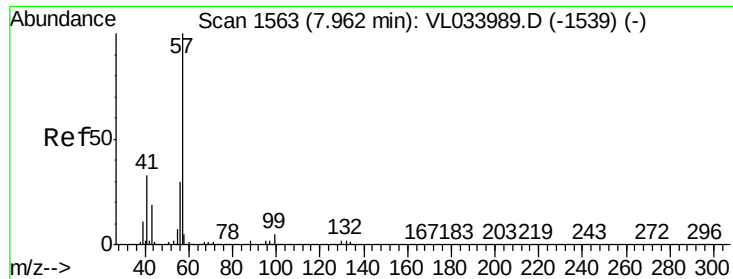
Delta R.T. 0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Tgt Ion:	69	Resp:	5257
Ion Ratio	Lower	Upper	
69	100		
41	0.0	109.1	163.7#
100	0.0	25.3	37.9#





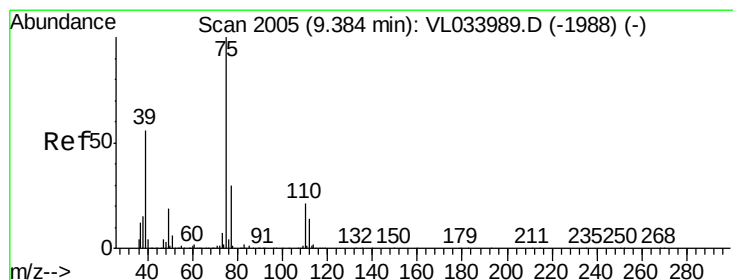
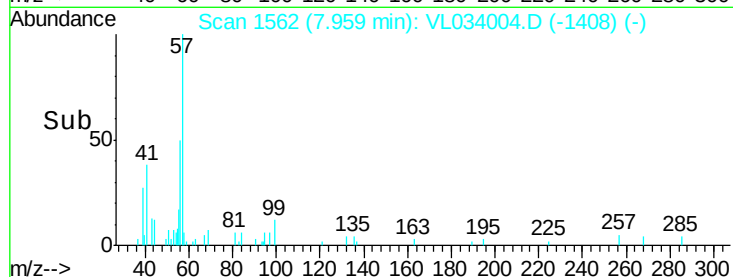
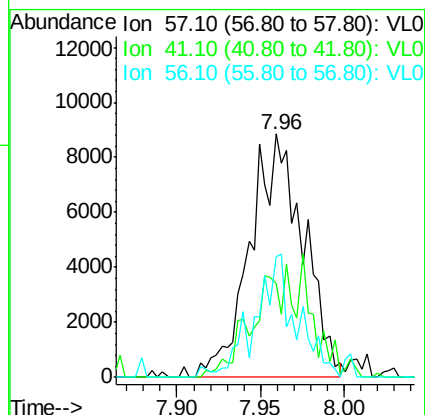
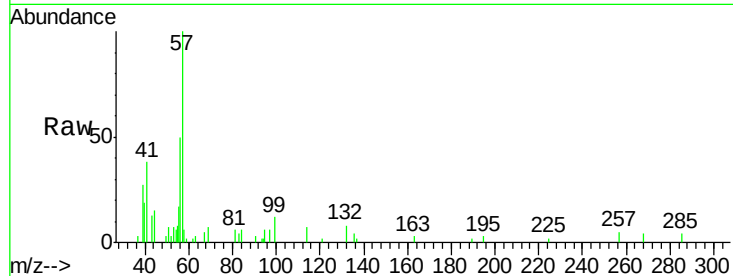
#44
 2,2,4-Trimethylpentane
 Concen: 0.060 ppbv m
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2019

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

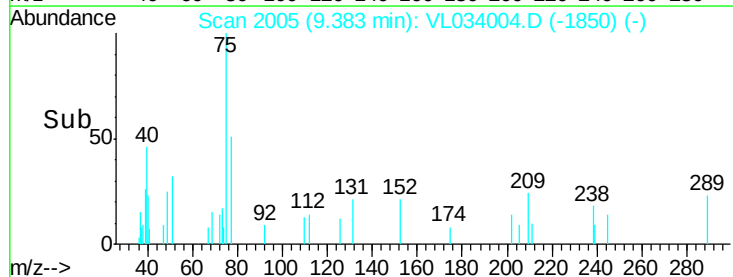
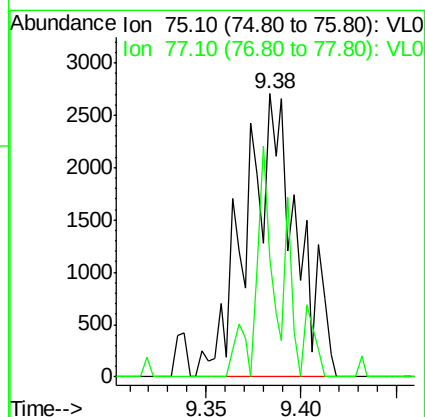
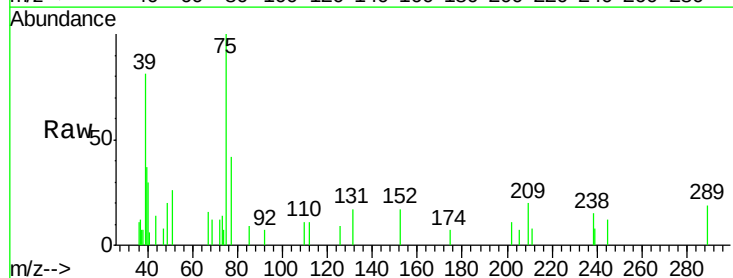
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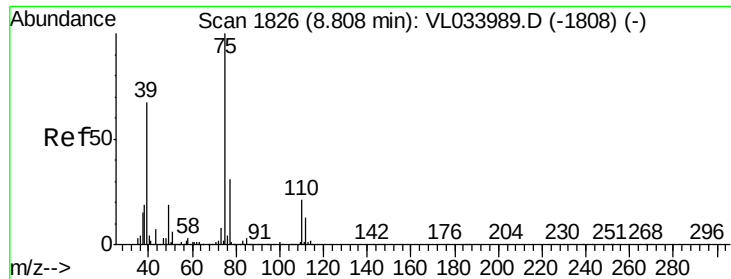
MMDadoda
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#45
 t-1,3-Dichloropropene
 Concen: 0.054 ppbv m
 RT: 9.38 min Scan# 2005
 Delta R.T. -0.00 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Tgt Ion	Ratio	Lower	Upper
75	100		
77	41.8	24.3	36.5#





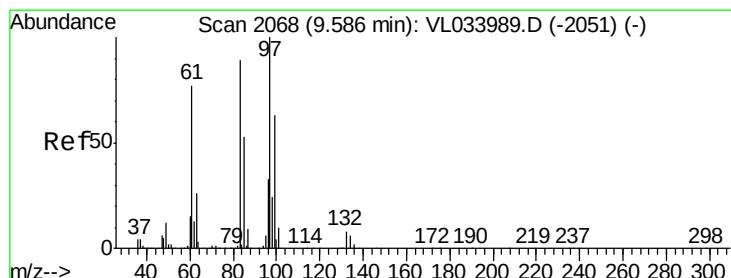
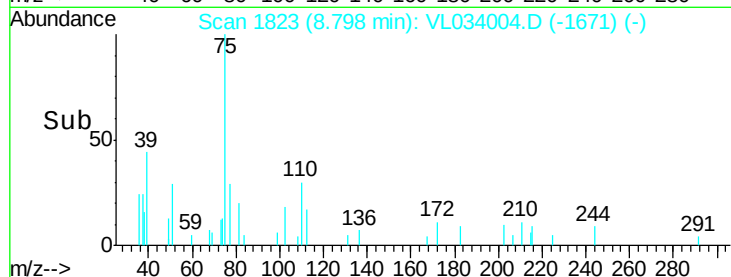
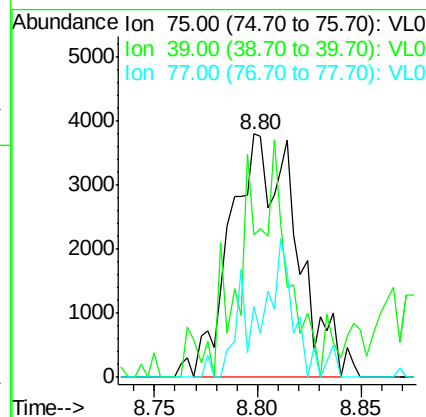
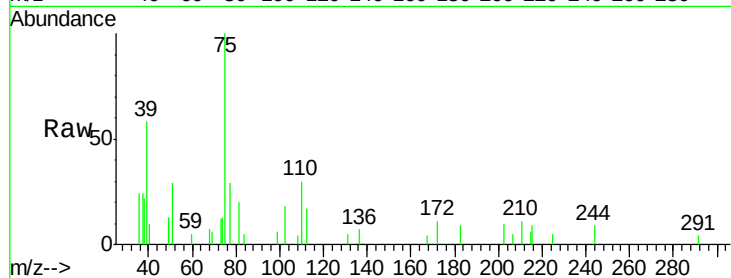
#46
 cis-1,3-Dichloropropene
 Concen: 0.076 ppbv m
 RT: 8.80 min Scan# 1823
 Delta R.T. -0.01 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
75	100		
39	58.4	53.8	80.6
77	28.9	24.5	36.7

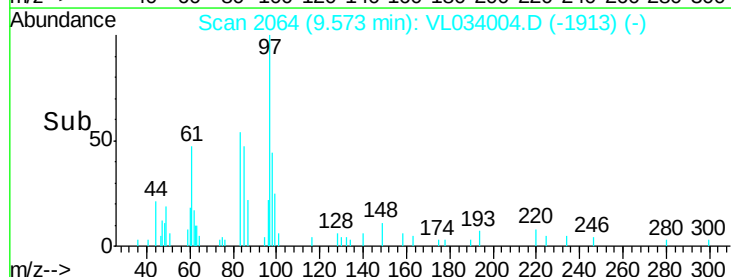
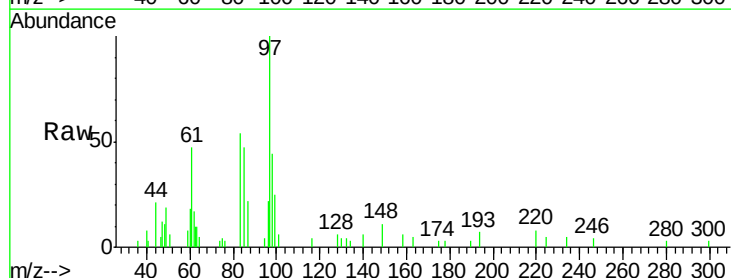
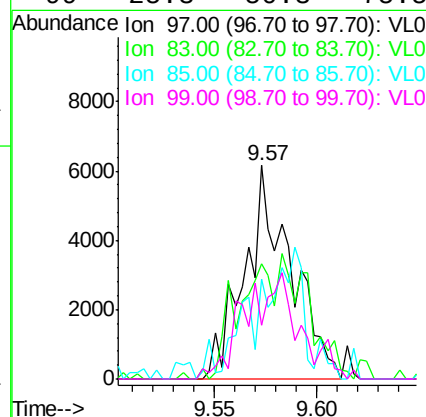
Manual Integrations
 APPROVED

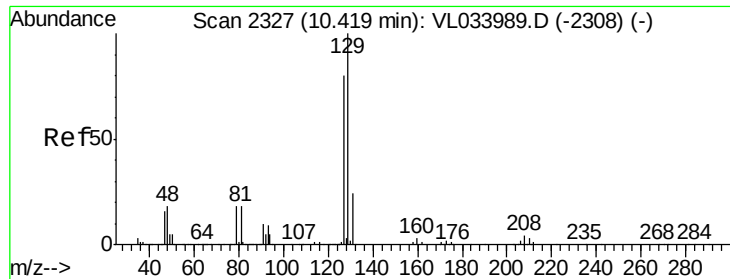
MMDadoda
 7/3/2019 11:03:44 PM



#47
 1,1,2-Trichloroethane
 Concen: 0.109 ppbv m
 RT: 9.57 min Scan# 2064
 Delta R.T. -0.01 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Tgt Ion	Ratio	Lower	Upper
97	100		
83	53.9	71.1	106.7#
85	46.6	42.6	64.0
99	25.3	50.3	75.5#





#48

Dibromochloromethane

Concen: 0.092 ppbv m

RT: 10.42 min Scan# 2328

Delta R.T. 0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion:129 Resp: 15555

Ion Ratio Lower Upper

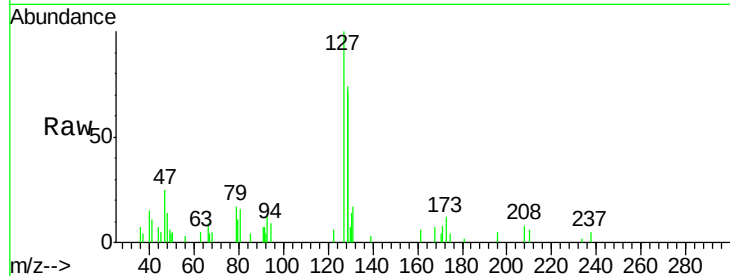
129 100

127 0.0 39.1 117.3#

Manual Integrations
APPROVED

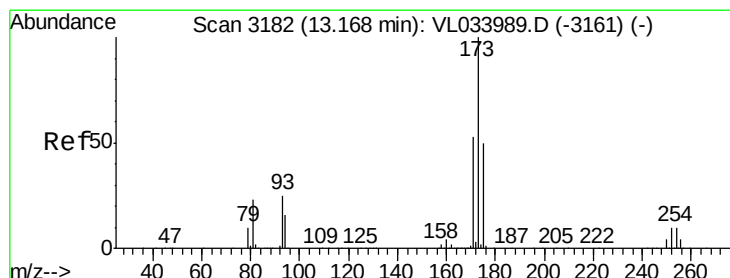
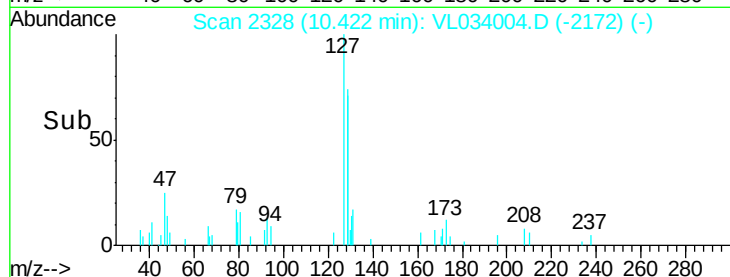
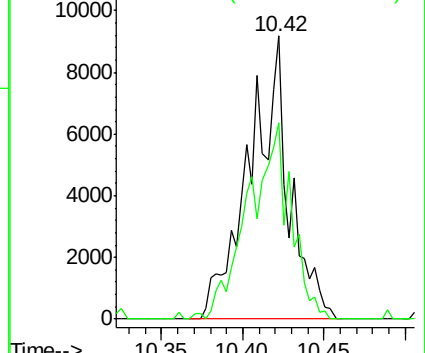
MMDadoda

7/3/2019 11:03:44 PM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#49

Bromoform

Concen: 0.080 ppbv

RT: 13.17 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

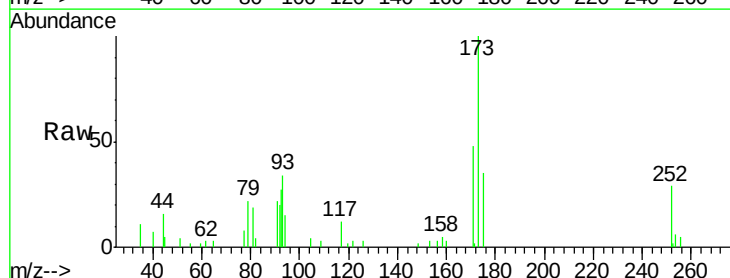
Tgt Ion:173 Resp: 11587

Ion Ratio Lower Upper

173 100

175 60.9 39.3 58.9#

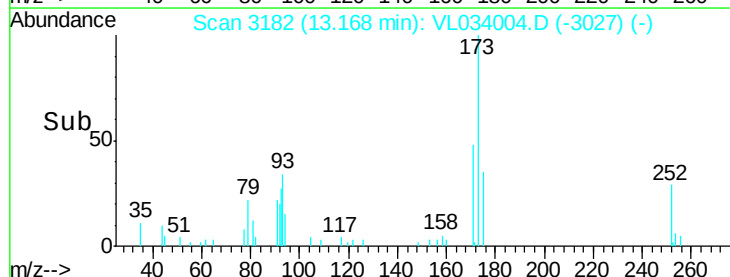
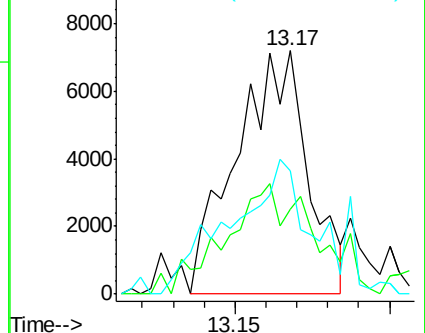
171 67.9 41.4 62.0#

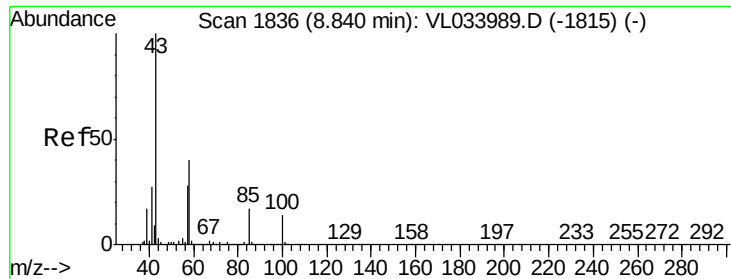


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V





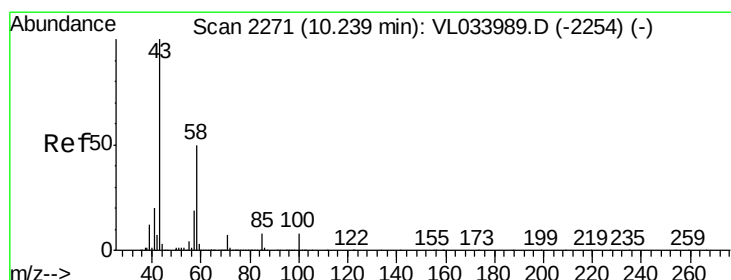
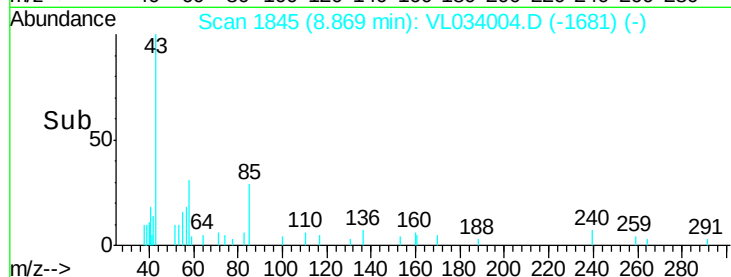
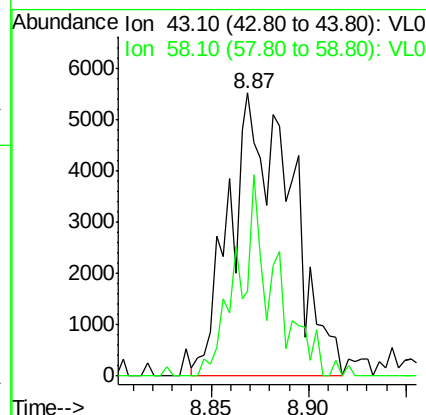
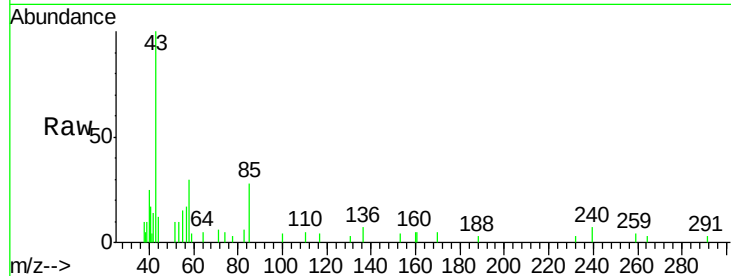
#50
4-Methyl-2-Pentanone
Concen: 0.064 ppbv m
RT: 8.87 min Scan# 1845
Delta R.T. 0.03 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.3	45.5#

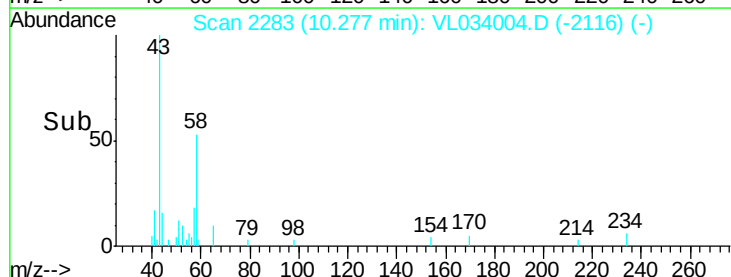
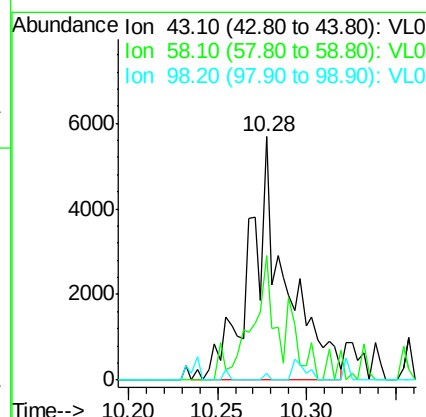
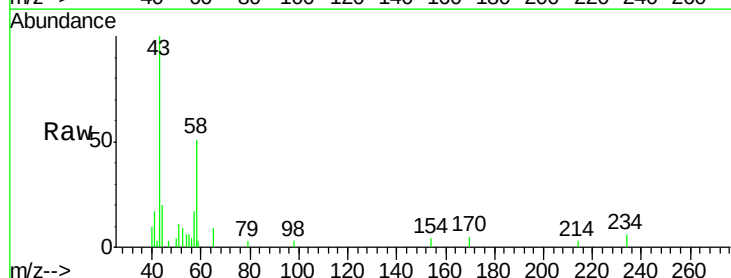
Manual Integrations
APPROVED

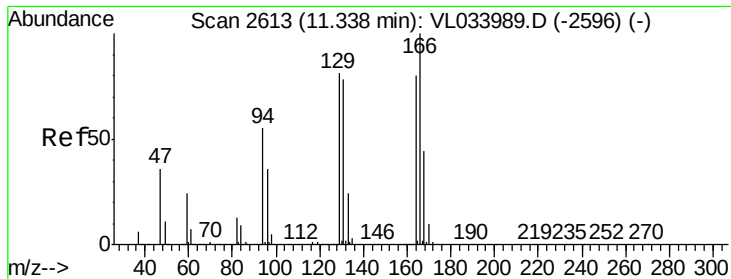
MMDadoda
7/3/2019 11:03:44 PM



#51
2-Hexanone
Concen: 0.052 ppbv m
RT: 10.28 min Scan# 2283
Delta R.T. 0.04 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.0	61.4#
98	2.5	0.2	0.2#





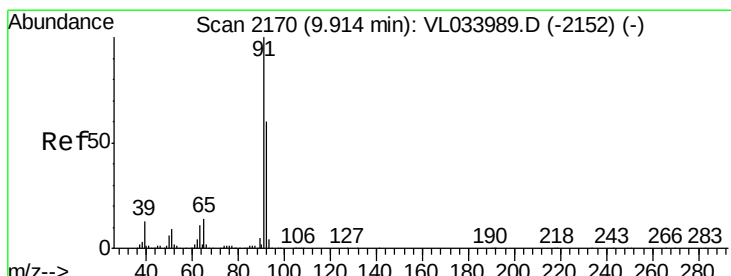
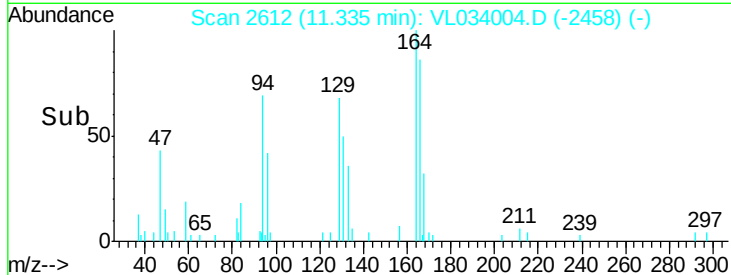
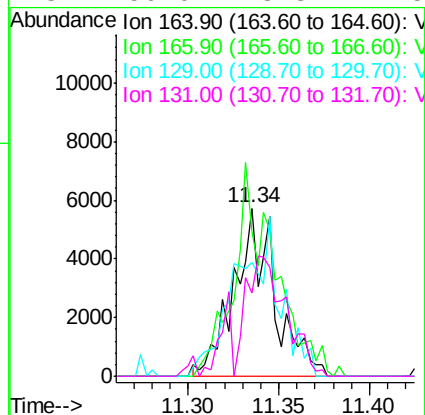
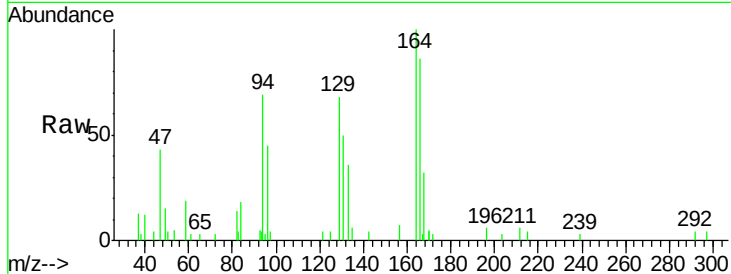
#52
Tetrachloroethene
Concen: 0.108 ppbv m
RT: 11.34 min Scan# 2612
Delta R.T. -0.00 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
164	100		
166	86.1	100.2	150.2#
129	68.2	81.0	121.6#
131	50.0	78.3	117.5#

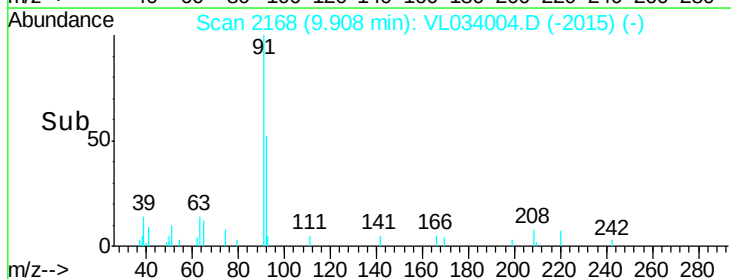
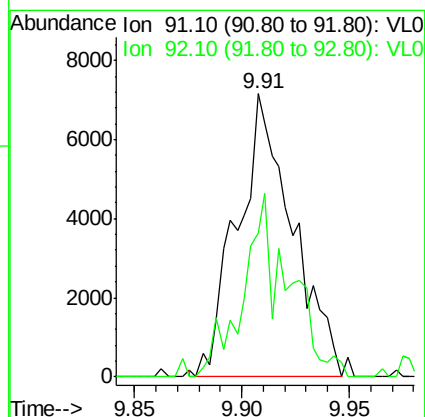
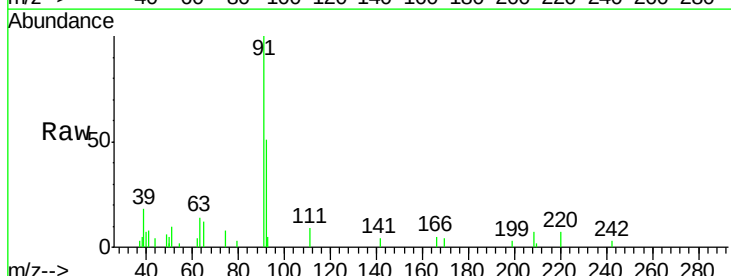
Manual Integrations
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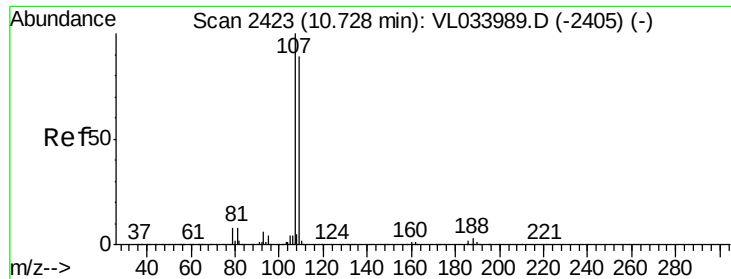
MMDadoda
7/3/2019 11:03:44 PM



#53
Toluene
Concen: 0.059 ppbv m
RT: 9.91 min Scan# 2168
Delta R.T. -0.01 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion	Ratio	Lower	Upper
91	100		
92	1.8	47.7	71.5#





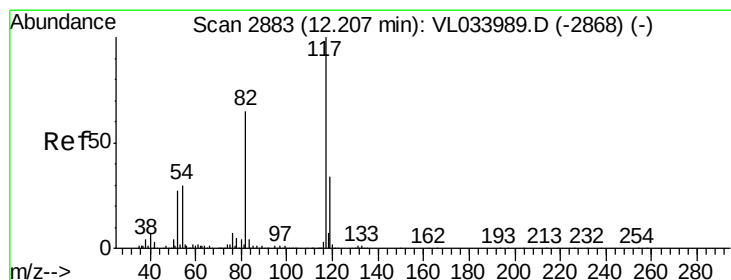
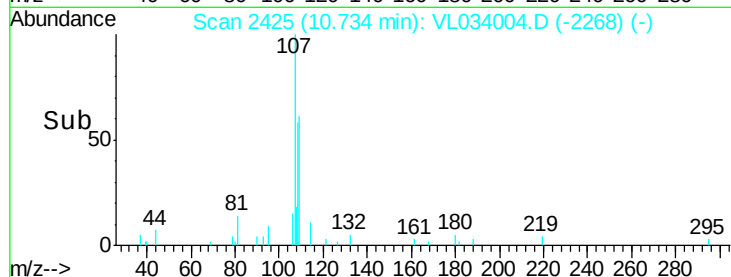
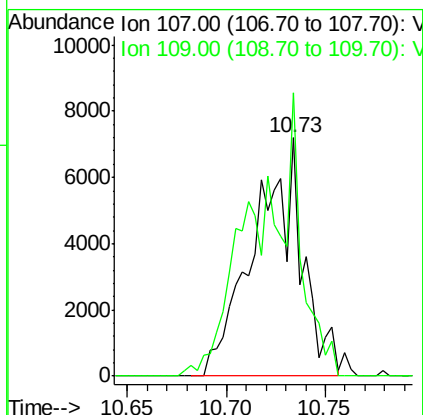
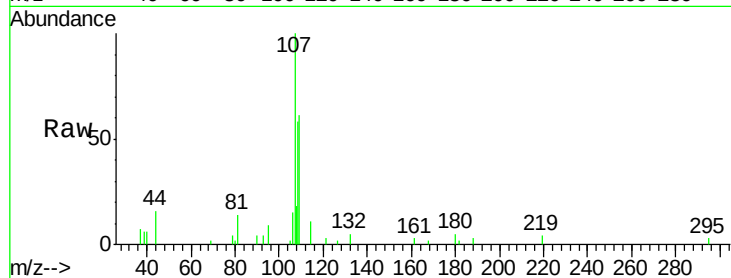
#54
1,2-Dibromoethane
Concen: 0.093 ppbv m
RT: 10.73 min Scan# 2425
Delta R.T. 0.01 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
107	100		
109	60.8	71.5	107.3#

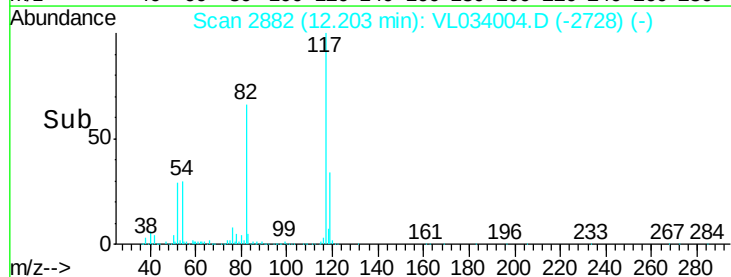
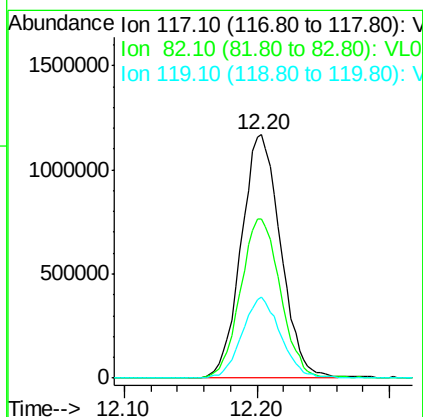
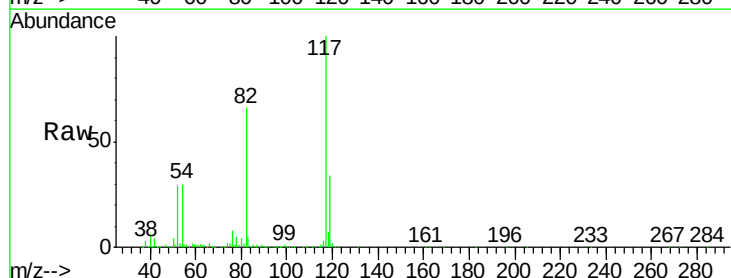
Manual Integrations
APPROVED

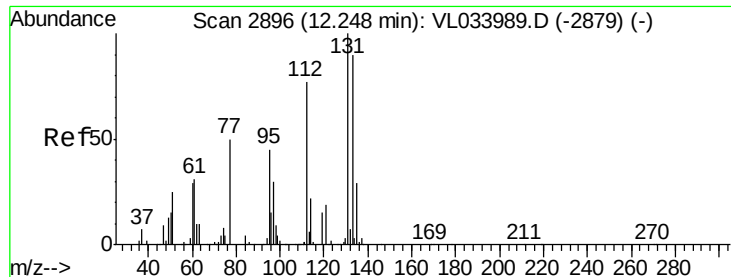
MMDadoda
7/3/2019 11:03:44 PM



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.20 min Scan# 2882
Delta R.T. -0.00 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion	Ratio	Lower	Upper
117	100		
82	66.5	50.8	76.2
119	32.8	24.0	36.0





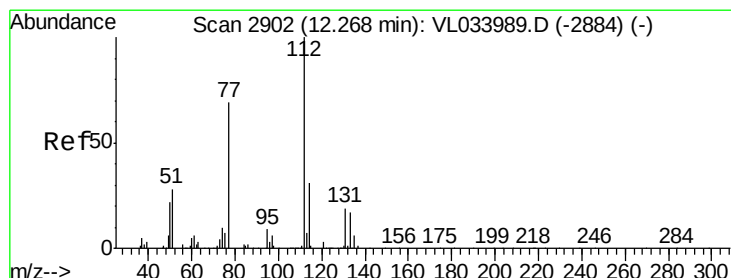
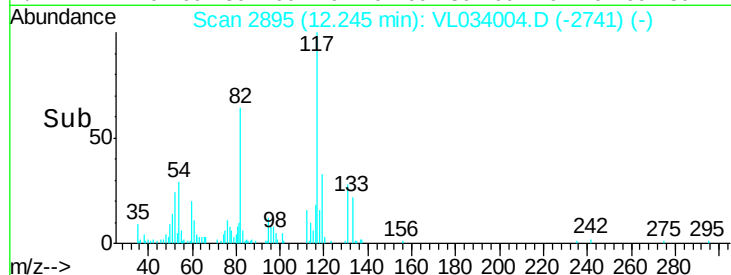
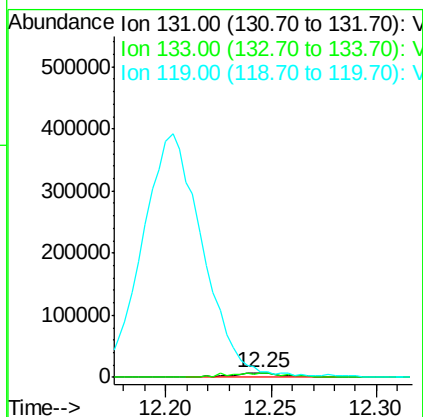
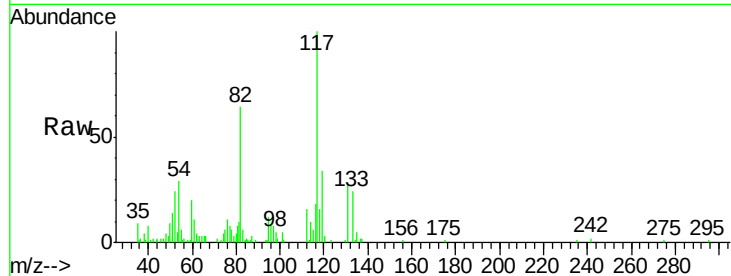
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.118 ppbv m
 RT: 12.25 min Scan# 2895
 Delta R.T. -0.00 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
131	100		
133	111.0	76.2	114.2
119	0.0	43.1	64.7#

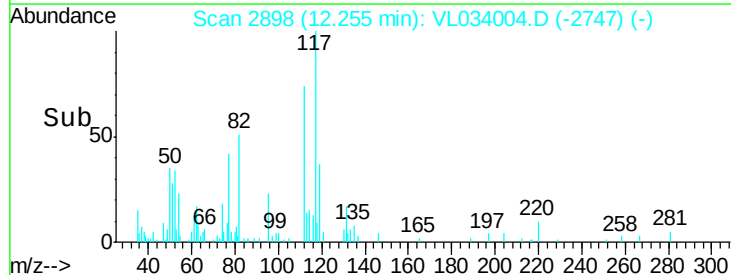
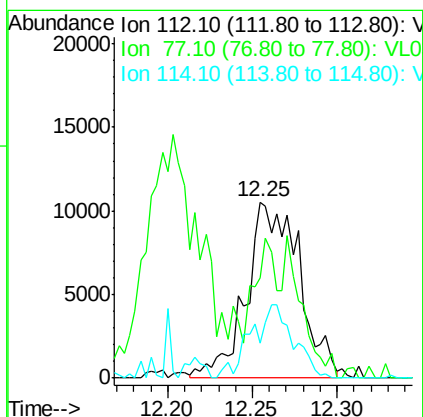
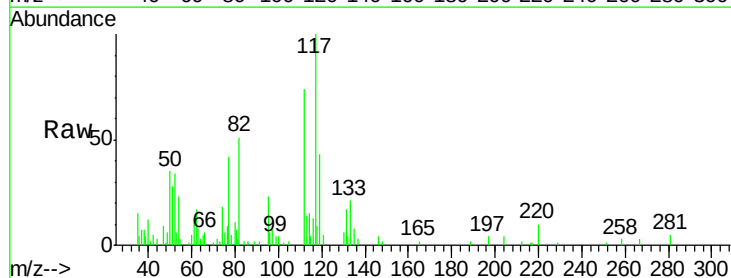
Manual Integrations
 APPROVED

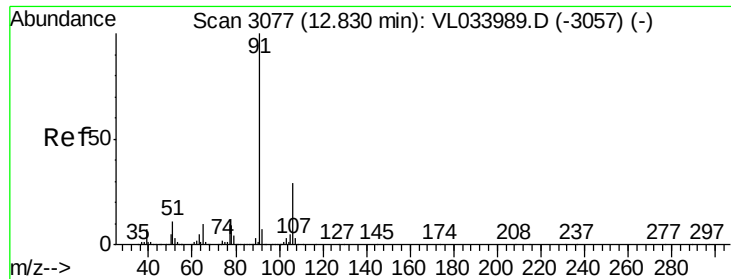
MMDadoda
 7/3/2019 11:03:44 PM



#57
 Chlorobenzene
 Concen: 0.120 ppbv m
 RT: 12.25 min Scan# 2898
 Delta R.T. -0.01 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Tgt Ion	Ratio	Lower	Upper
112	100		
77	56.8	55.9	83.9
114	20.1	27.6	33.8#





#58

Ethyl Benzene

Concen: 0.060 ppbv m

RT: 12.82 min Scan# 3074

Delta R.T. -0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion: 91 Resp: 17495

Ion Ratio Lower Upper

91 100

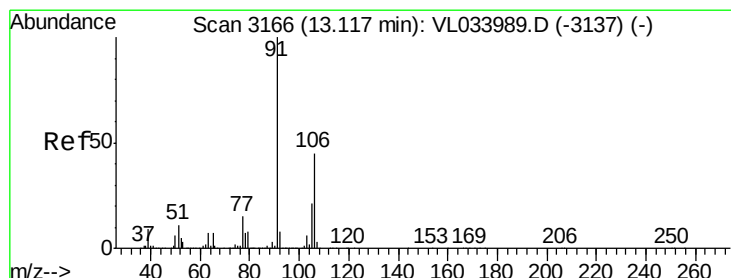
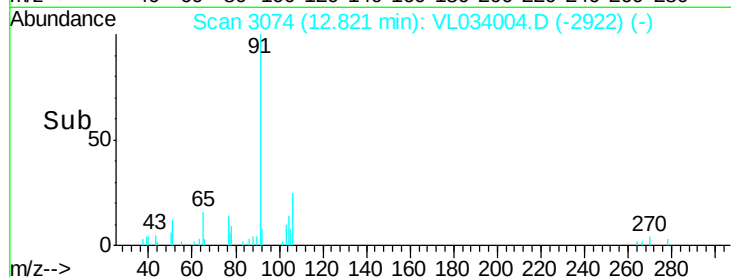
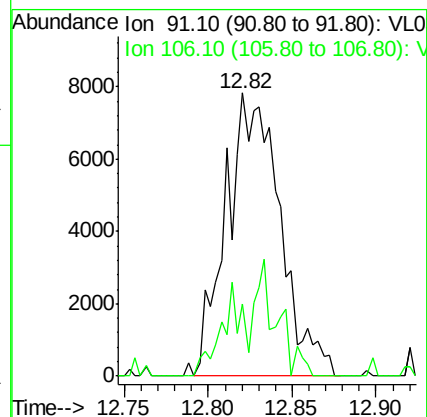
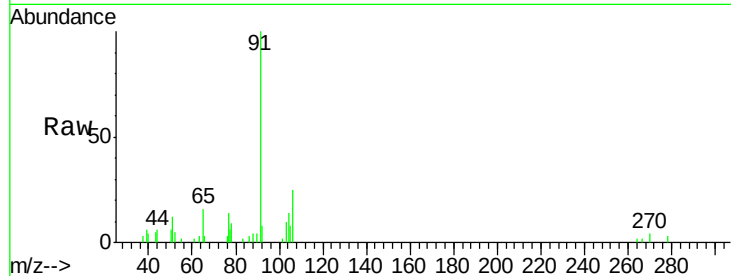
106 25.4 23.3 34.9

Manual Integrations

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MMDadoda

7/3/2019 11:03:44 PM



#59

m/p-Xylene

Concen: 0.116 ppbv m

RT: 13.12 min Scan# 3168

Delta R.T. 0.01 min

Lab File: VL034004.D

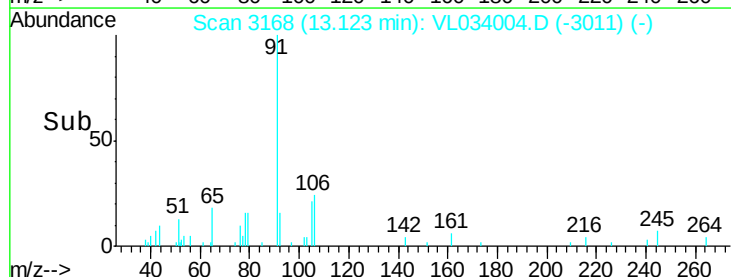
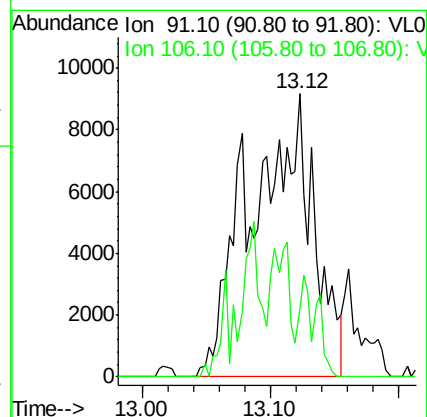
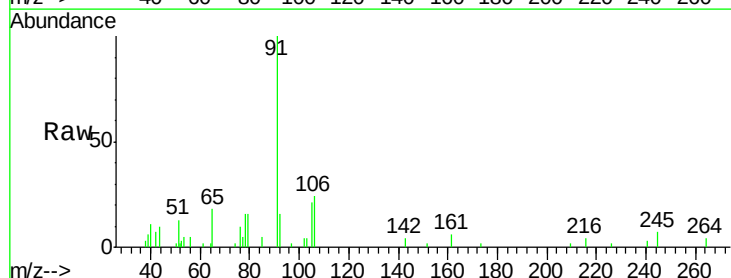
Acq: 3 Jul 2019 3:47

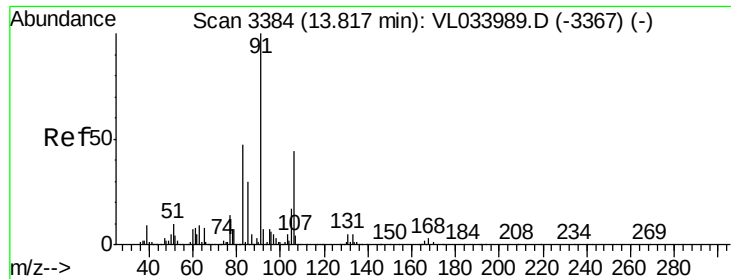
Tgt Ion: 91 Resp: 30414

Ion Ratio Lower Upper

91 100

106 0.0 35.7 53.5#





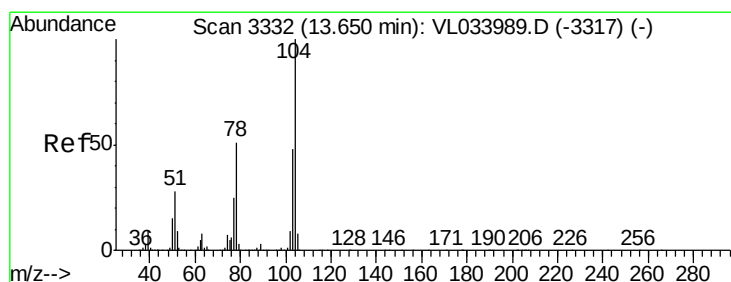
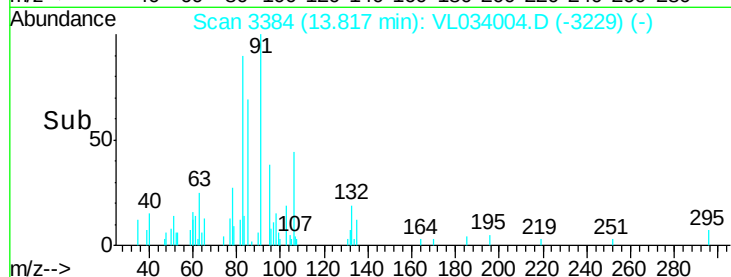
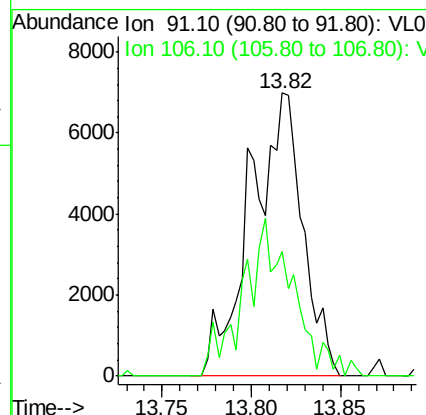
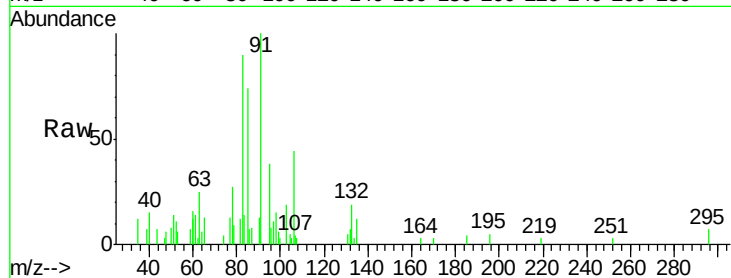
#60
o-Xylene
Concen: 0.054 ppbv m
RT: 13.82 min Scan# 3384
Delta R.T. -0.00 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2019

Tot Ion: 91 Resp: 14185
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.7#

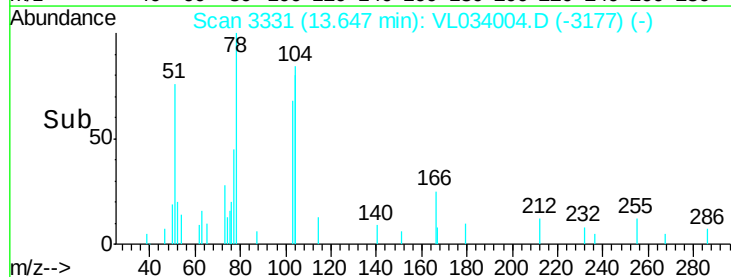
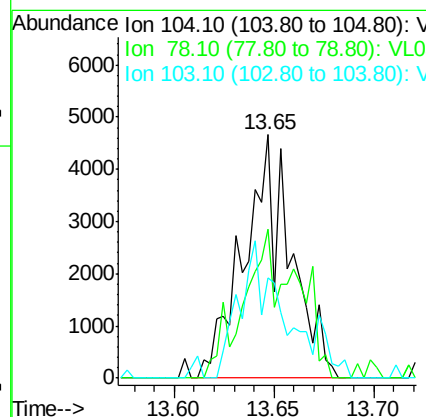
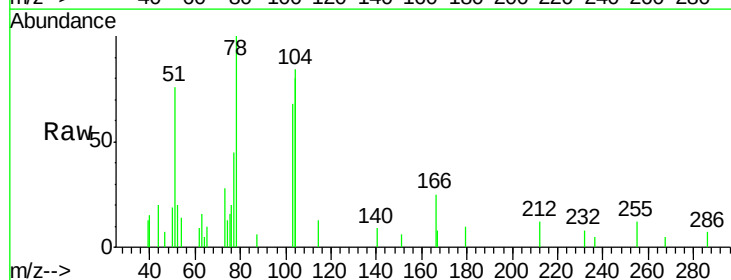
Manual Integrations
APPROVED

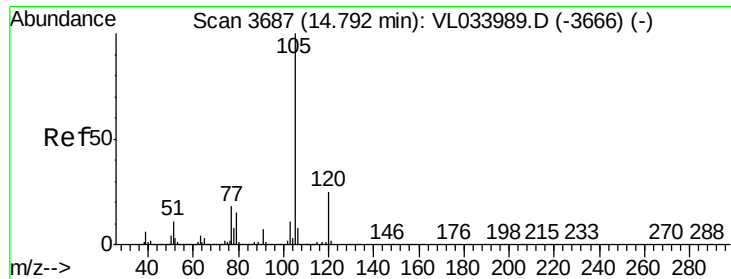
MMDadoda
7/3/2019 11:03:44 PM



#61
Styrene
Concen: 0.043 ppbv m
RT: 13.65 min Scan# 3331
Delta R.T. -0.00 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion: 104 Resp: 7532
Ion Ratio Lower Upper
104 100
78 70.2 43.9 65.9#
103 58.5 38.1 57.1#





#62

Isopropylbenzene

Concen: 0.065 ppbv m

RT: 14.79 min Scan# 3688

Delta R.T. 0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion:105 Resp: 26096

Ion Ratio Lower Upper

105 100

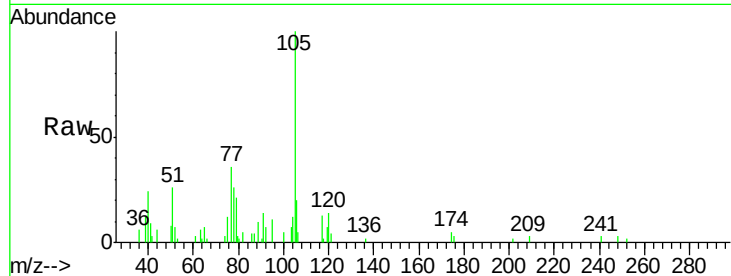
120 25.0 20.4 30.6

Manual Integrations

APPROVED

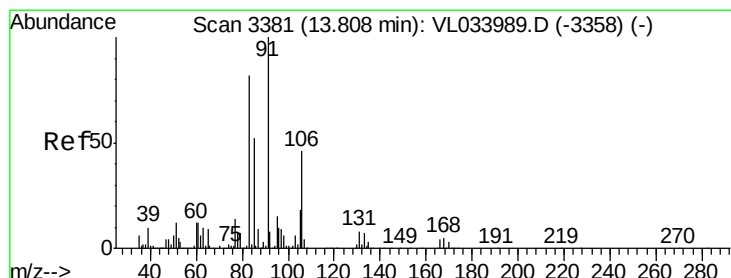
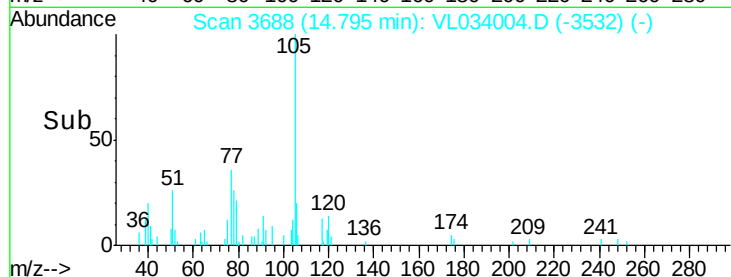
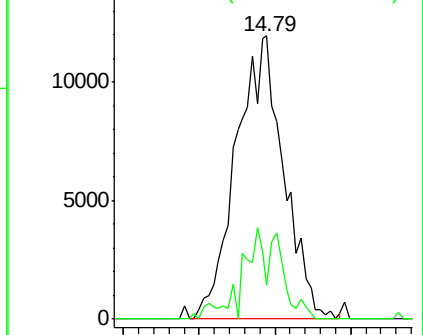
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.114 ppbv m

RT: 13.80 min Scan# 3379

Delta R.T. -0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

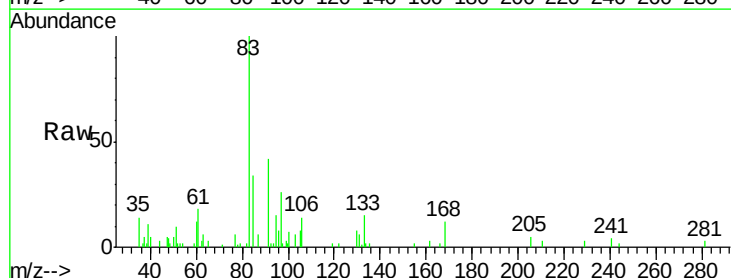
Tgt Ion: 83 Resp: 23266

Ion Ratio Lower Upper

83 100

131 7.9 5.0 14.9

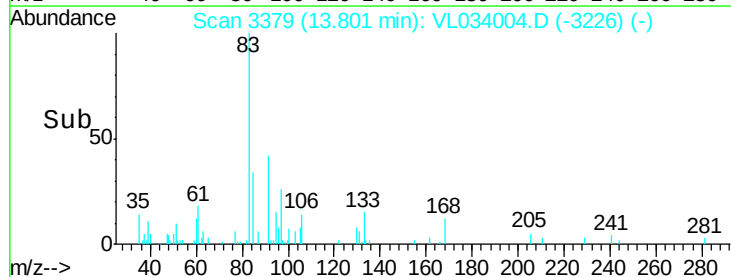
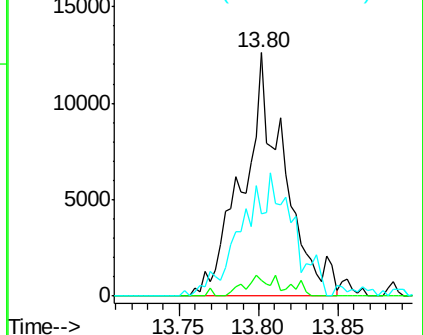
85 0.0 32.8 98.3#

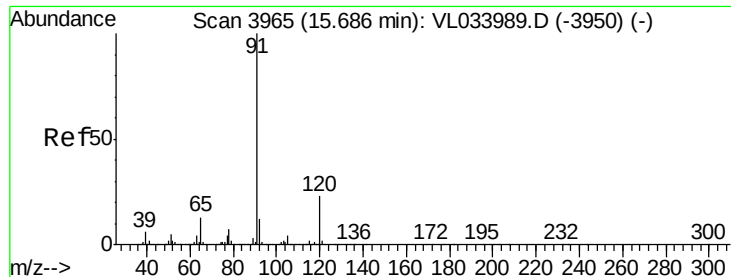


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 0.041 ppbv m

RT: 15.70 min Scan# 3969

Delta R.T. 0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion:120 Resp: 4342

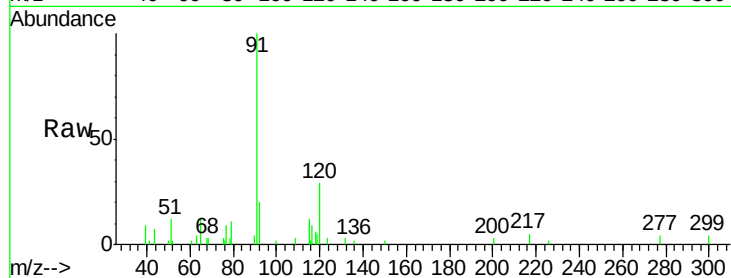
Ion Ratio Lower Upper

120 100

91 0.0 386.6 579.8#

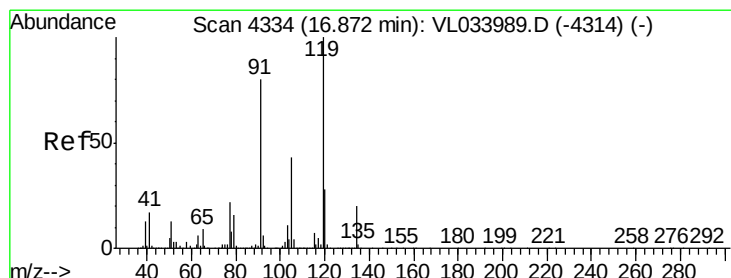
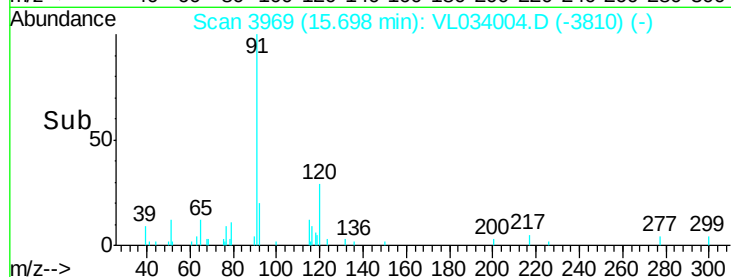
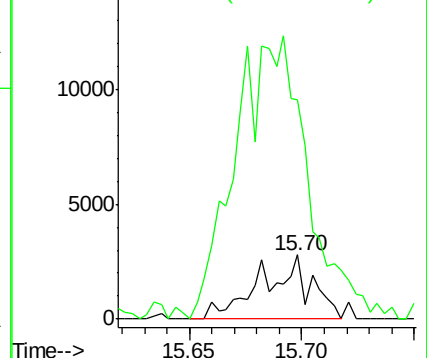
Manual Integrations
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Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.048 ppbv m

RT: 16.88 min Scan# 4335

Delta R.T. 0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

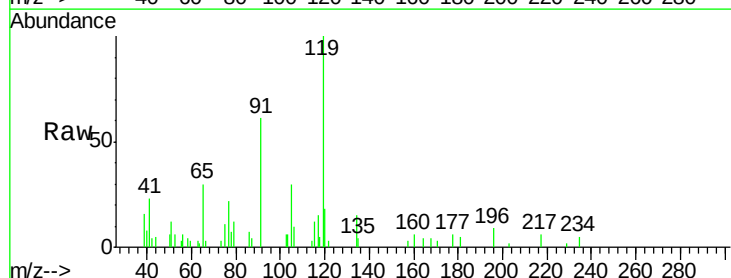
Tgt Ion:119 Resp: 16651

Ion Ratio Lower Upper

119 100

91 0.0 67.0 100.6#

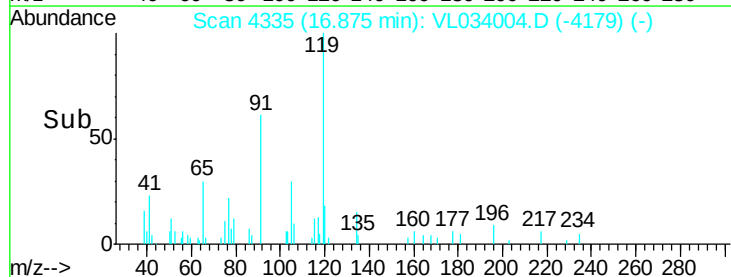
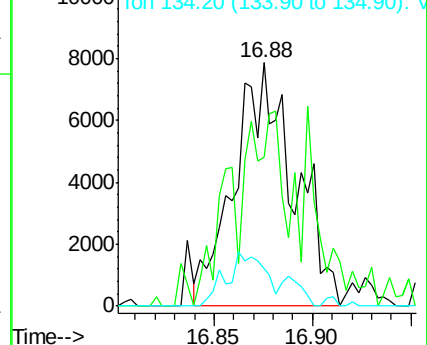
134 19.0 15.8 23.6

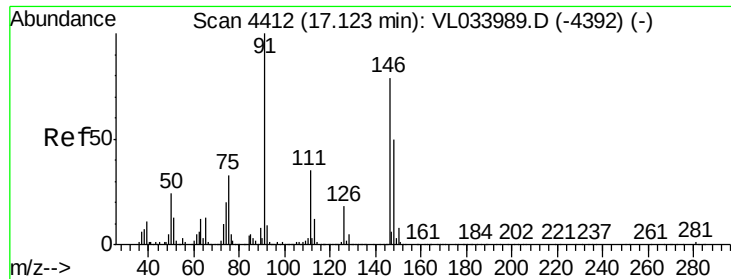


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





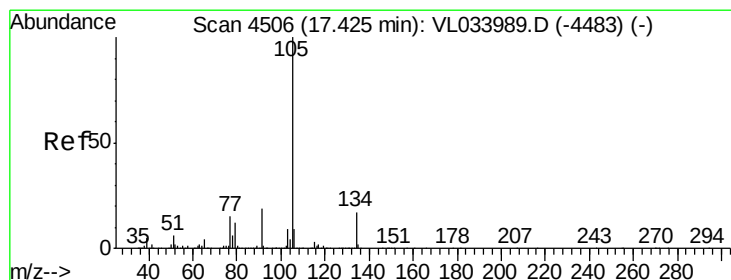
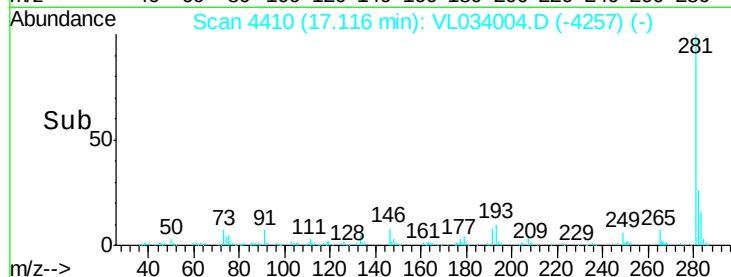
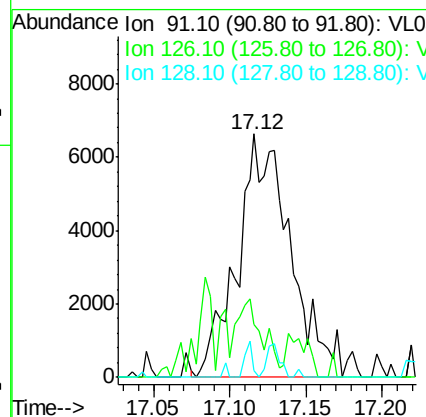
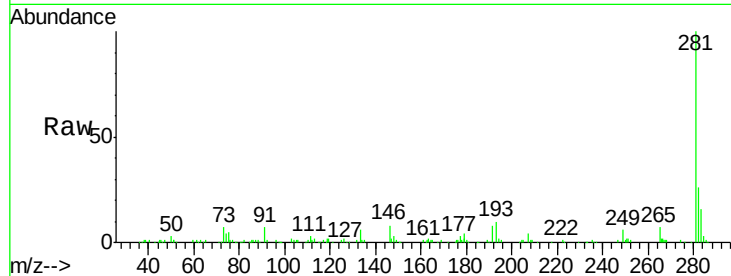
#66
Benzyl Chloride
Concen: 0.091 ppbv m
RT: 17.12 min Scan# 4410
Delta R.T. -0.01 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
91	100	15997		
126	28.3		13.9	20.9#
128	6.2		4.6	7.0

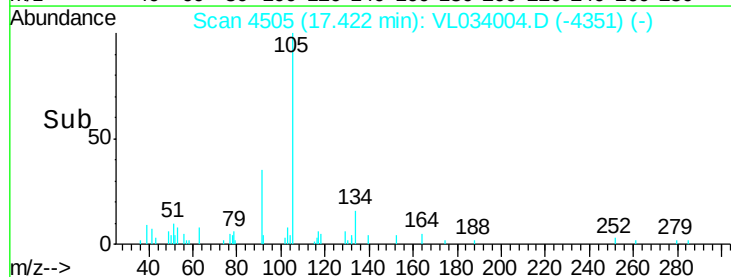
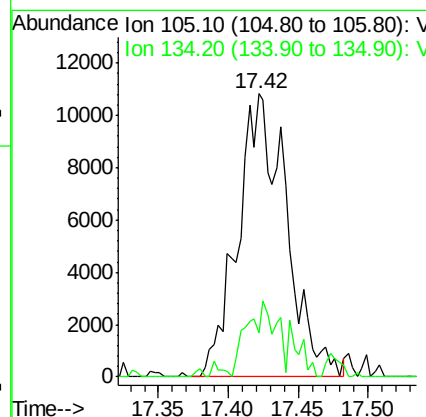
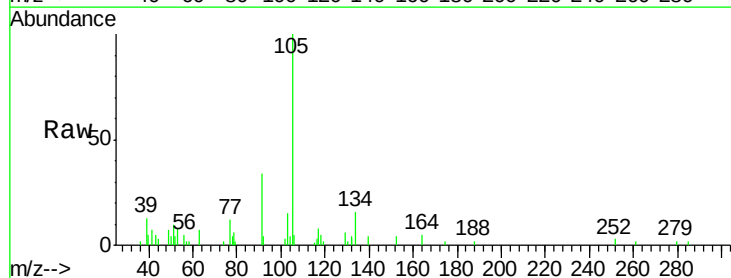
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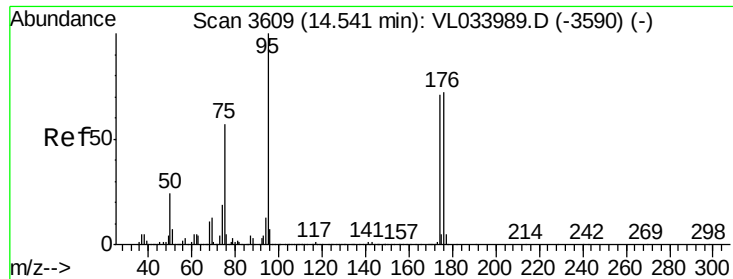
MMDadoda
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#67
sec-Butylbenzene
Concen: 0.054 ppbv m
RT: 17.42 min Scan# 4505
Delta R.T. -0.00 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	26224		
134	24.6		14.7	22.1#





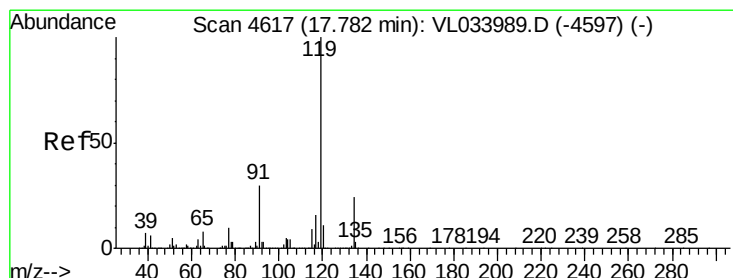
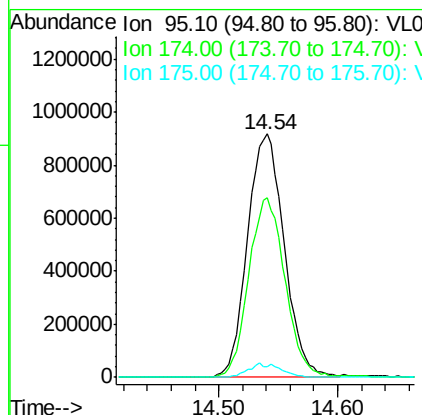
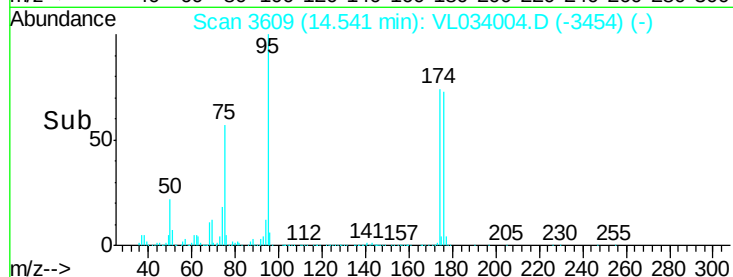
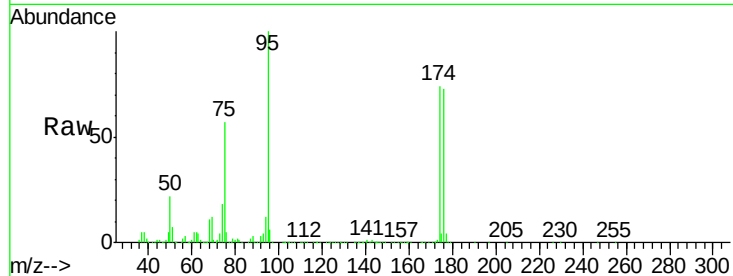
#68
1-Bromo-4-Fluorobenzene
Concen: 9.538 ppbv
RT: 14.54 min Scan# 3609
Delta R.T. -0.00 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2019

Tot Ion: 95 Resp: 1962012
Ion Ratio Lower Upper
95 100
174 73.3 60.5 90.7
175 5.2 4.0 6.0

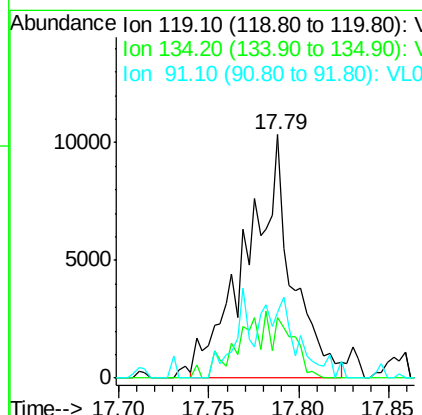
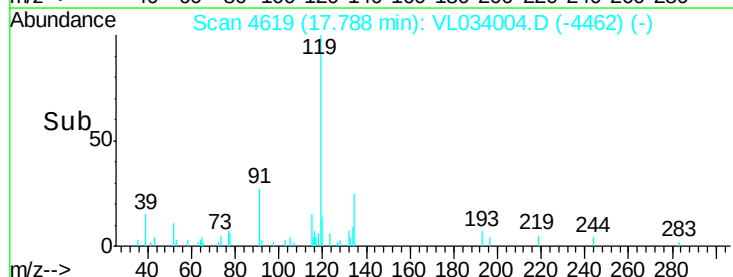
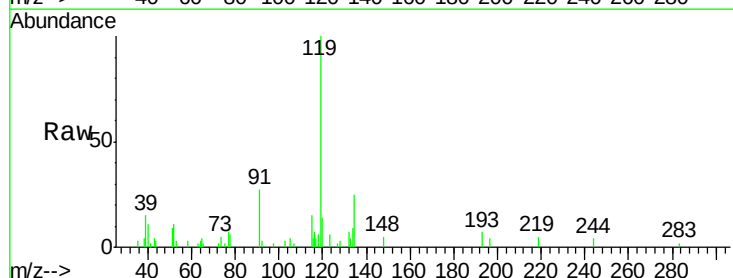
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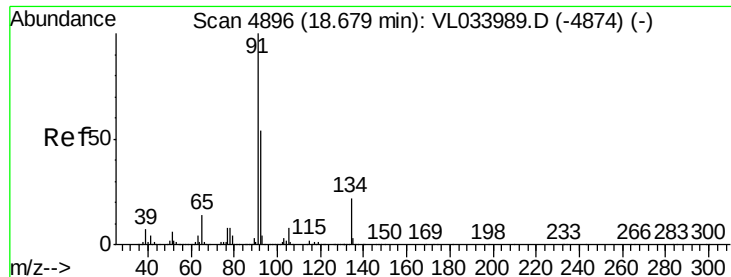
MMDadoda
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#69
p-Isopropyltoluene
Concen: 0.046 ppbv m
RT: 17.79 min Scan# 4619
Delta R.T. 0.01 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion: 119 Resp: 18176
Ion Ratio Lower Upper
119 100
134 29.4 20.1 30.1
91 38.3 23.6 35.4#





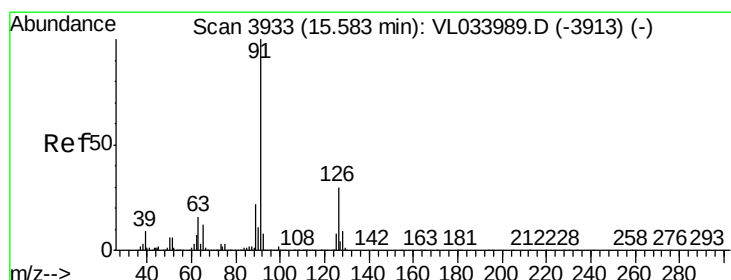
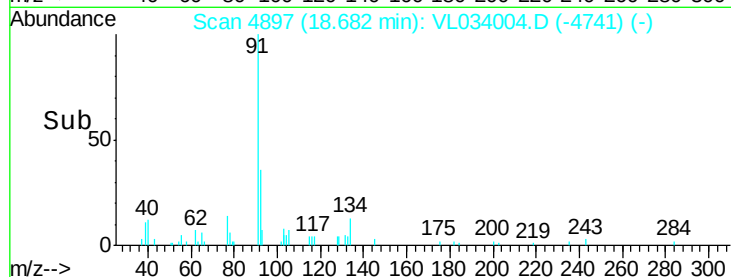
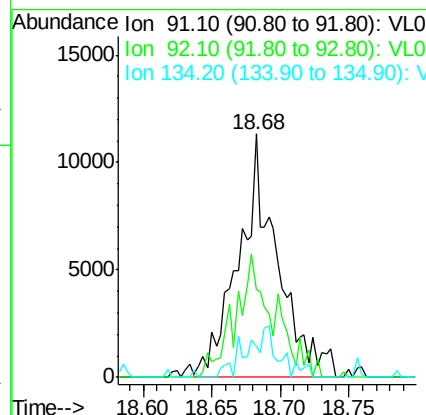
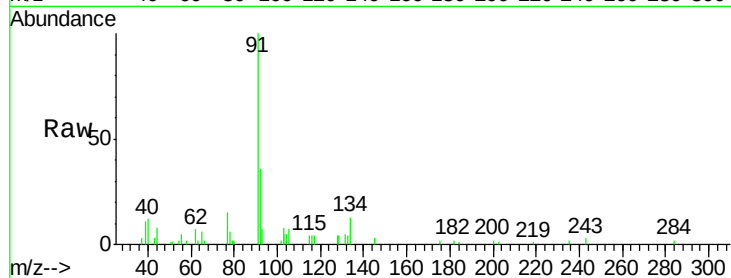
#70
n-Butylbenzene
Concen: 0.053 ppbv m
RT: 18.68 min Scan# 4897
Delta R.T. 0.00 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	42.0	63.0#
134	0.0	17.9	26.9#

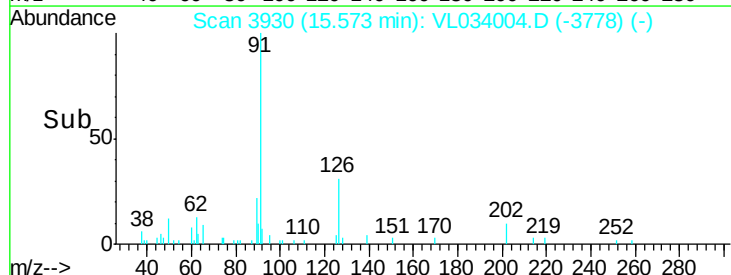
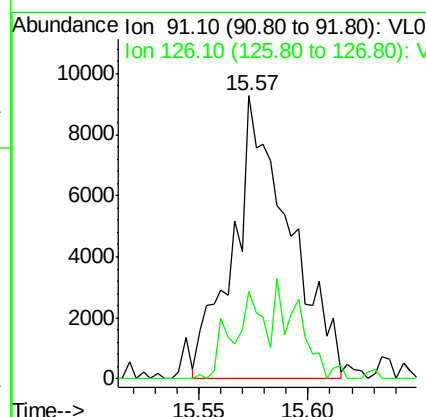
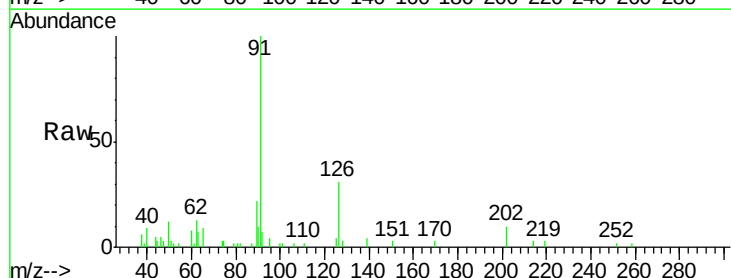
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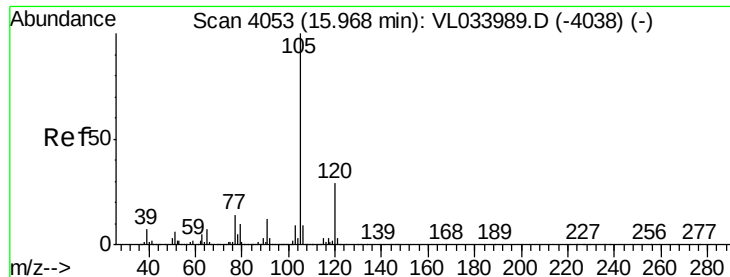
MMDadoda
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#71
2-Chlorotoluene
Concen: 0.056 ppbv m
RT: 15.57 min Scan# 3930
Delta R.T. -0.01 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.5	12.3	49.3





#72

4-Ethyltoluene

Concen: 0.045 ppbv m

RT: 15.97 min Scan# 4053

Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

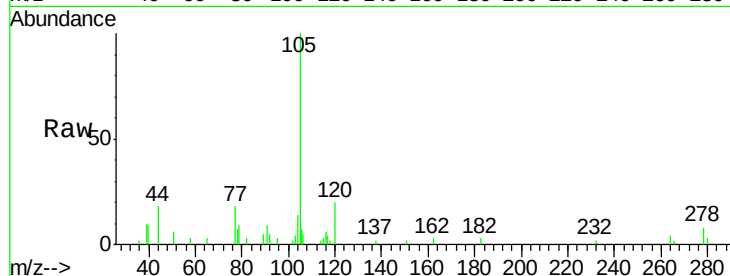
ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
105	100	15058		
120	29.4		24.1	36.1
91	22.3		10.6	16.0#
77	21.5		11.5	17.3#

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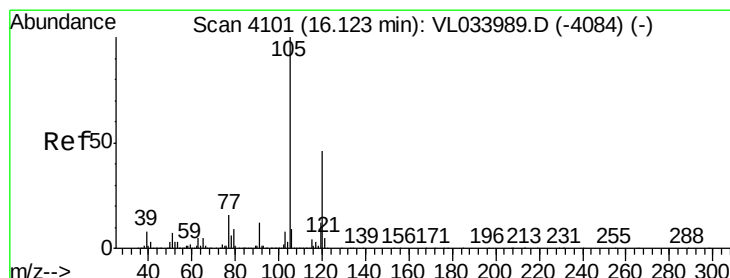
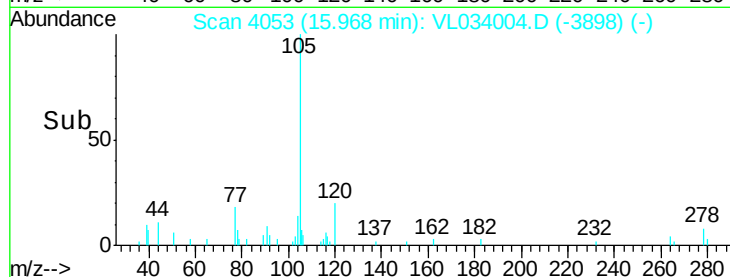
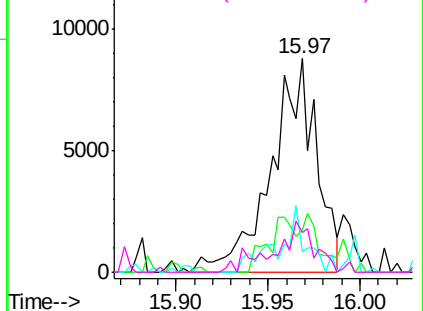


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.050 ppbv m

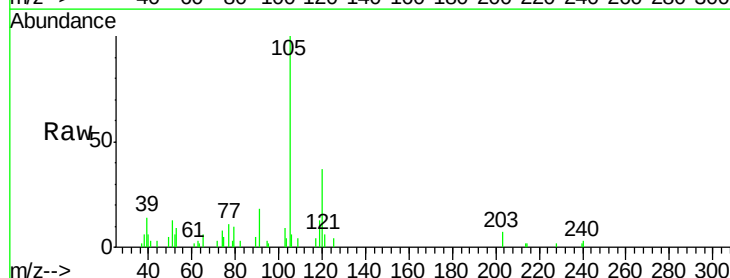
RT: 16.12 min Scan# 4101

Delta R.T. -0.00 min

Lab File: VL034004.D

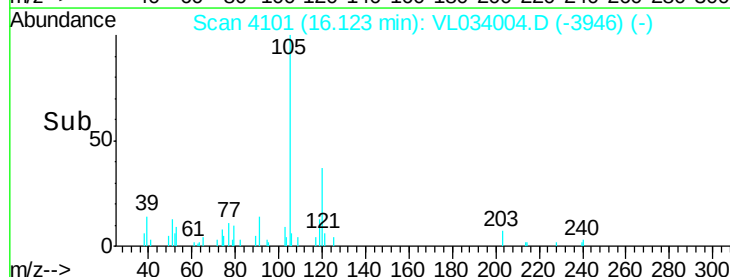
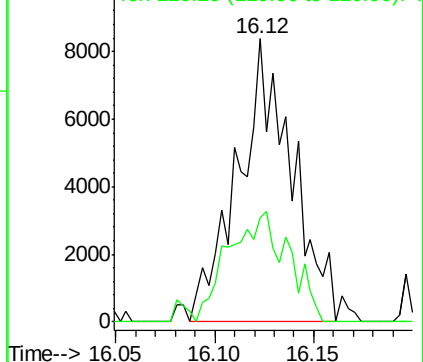
Acq: 3 Jul 2019 3:47

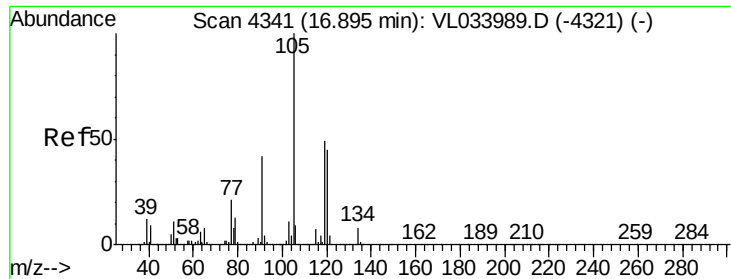
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	15785		
120	36.7		36.4	54.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





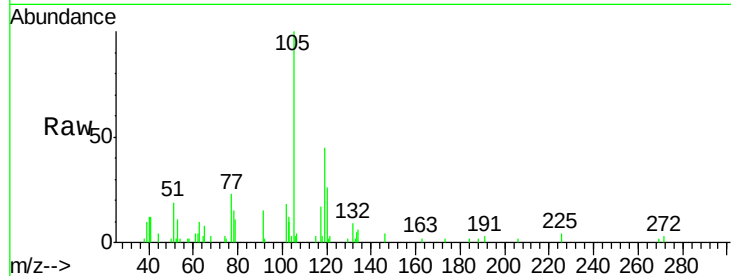
#74
 1,2,4-Trimethylbenzene
 Concen: 0.049 ppbv m
 RT: 16.89 min Scan# 4341
 Delta R.T. -0.00 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2019

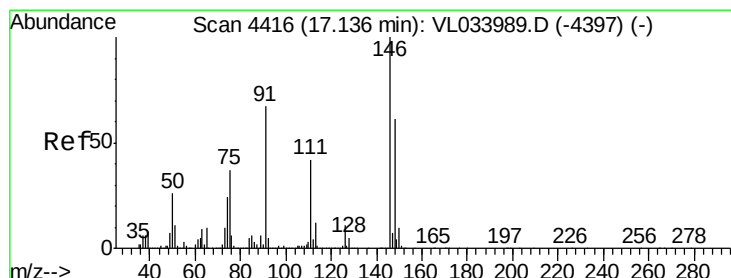
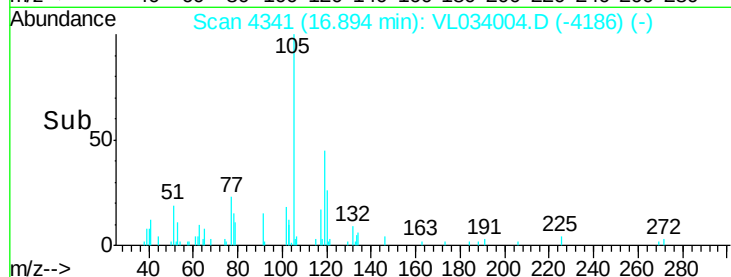
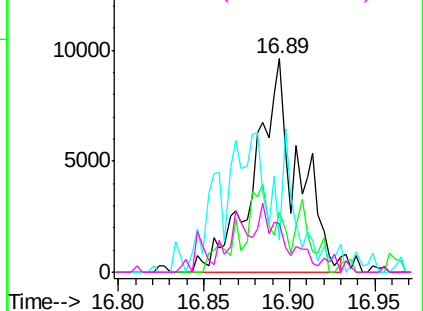
Tot Ion	Ratio	Lower	Upper
105	100		
120	25.6	36.2	54.2#
91	14.8	34.3	51.5#
77	22.5	17.1	25.7

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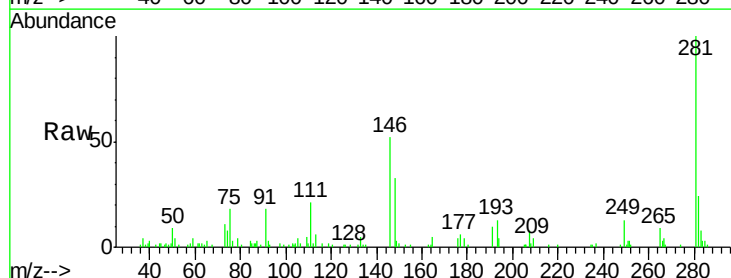


Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

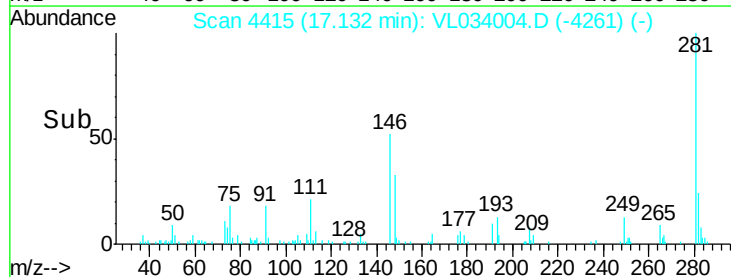
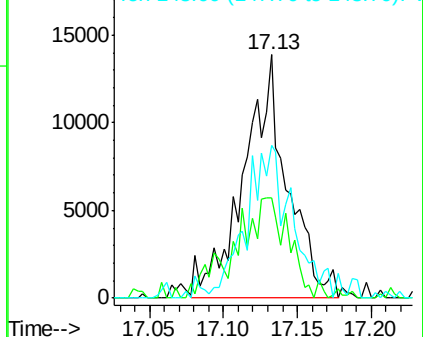


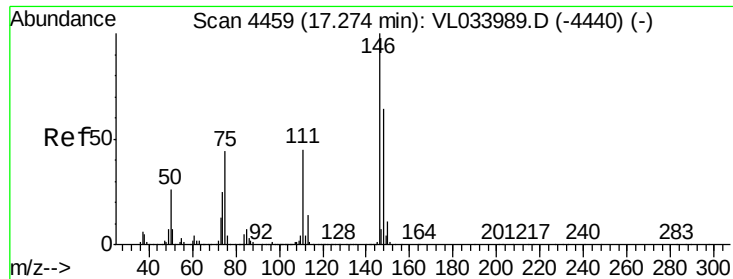
#75
 1,3-Dichlorobenzene
 Concen: 0.129 ppbv m
 RT: 17.13 min Scan# 4415
 Delta R.T. -0.00 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	51.1	22.3	66.9
148	72.6	32.0	96.2



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





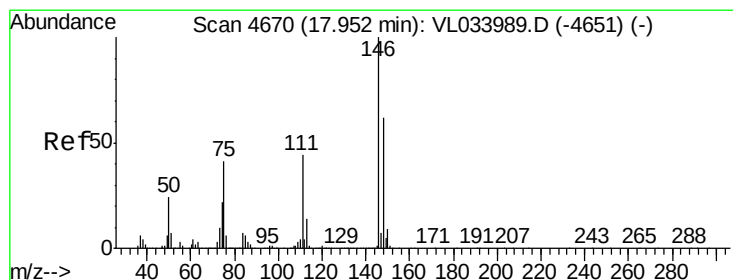
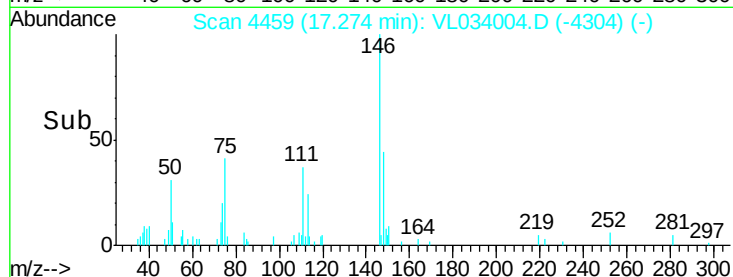
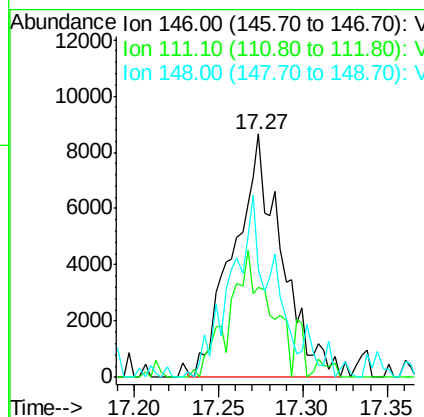
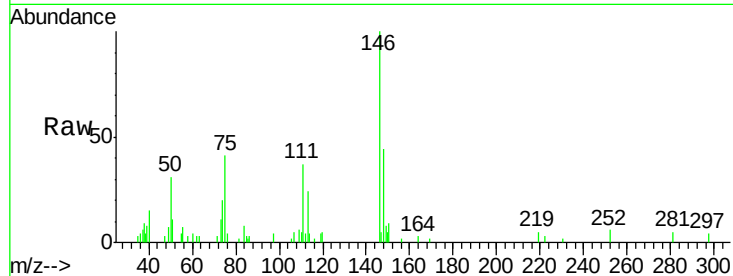
#76
 1,4-Dichlorobenzene
 Concen: 0.082 ppbv m
 RT: 17.27 min Scan# 4459
 Delta R.T. -0.00 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.1	21.9	65.5
148	69.2	32.5	97.5

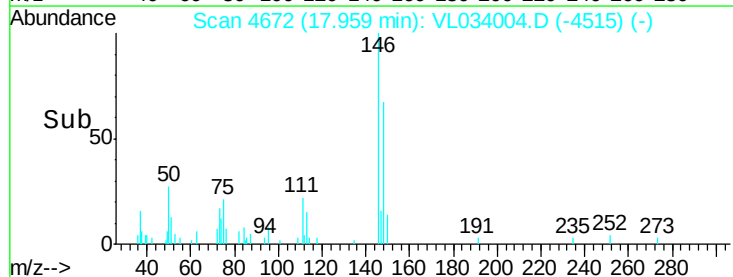
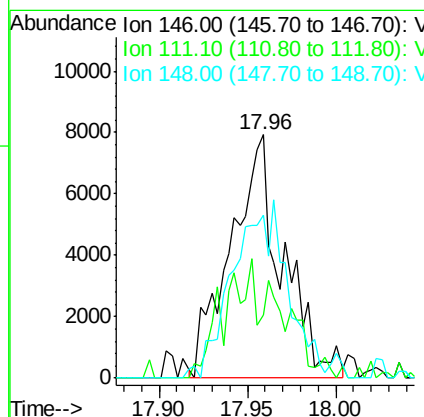
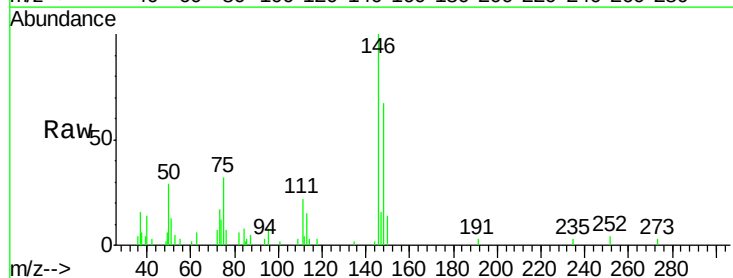
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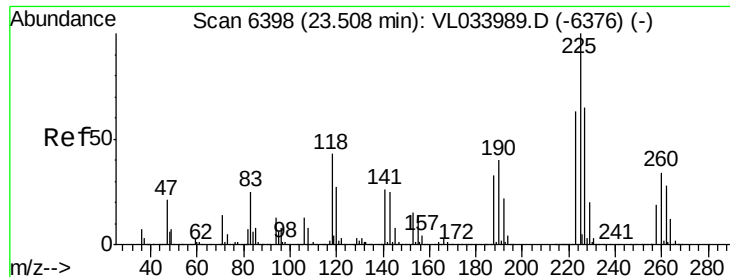
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#77
 1,2-Dichlorobenzene
 Concen: 0.079 ppbv m
 RT: 17.96 min Scan# 4672
 Delta R.T. 0.01 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.7	68.1#
148	0.0	32.1	96.3#





#78

Hexachloro-1,3-Butadiene

Concen: 0.148 ppbv m

RT: 23.51 min Scan# 6398

Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

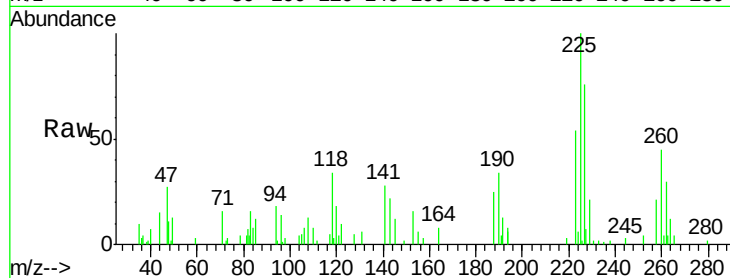
ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

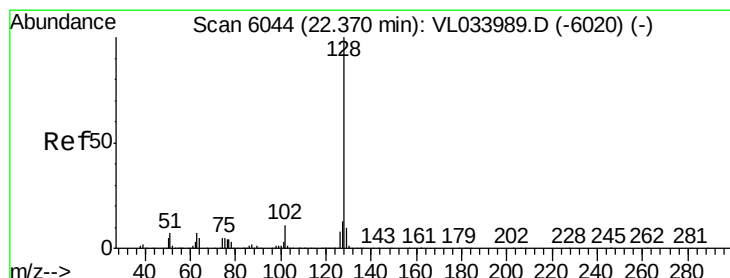
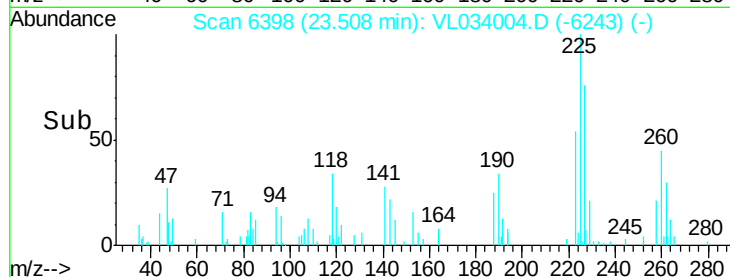
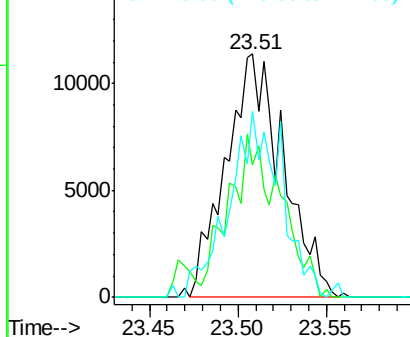
Tot Ion:	225	Resp:	25689
Ion Ratio	Lower	Upper	
225	100		
223	65.3	51.5	77.3
227	70.6	52.1	78.1

Manual Integrations
APPROVED

MMDadoda
7/3/2019 11:03:44 PM



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.048 ppbv m

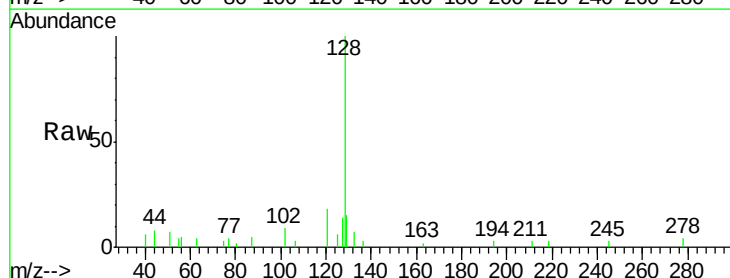
RT: 22.37 min Scan# 6043

Delta R.T. -0.00 min

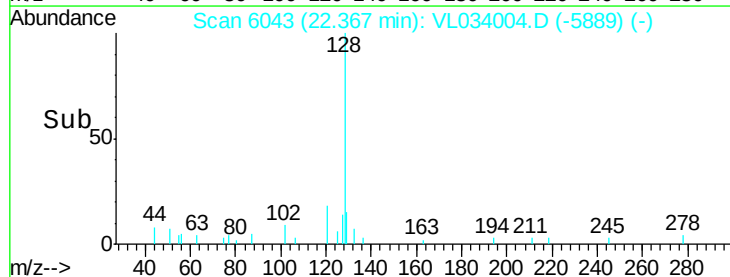
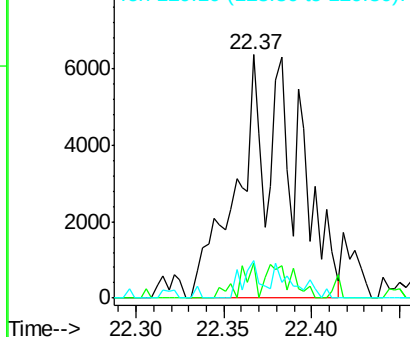
Lab File: VL034004.D

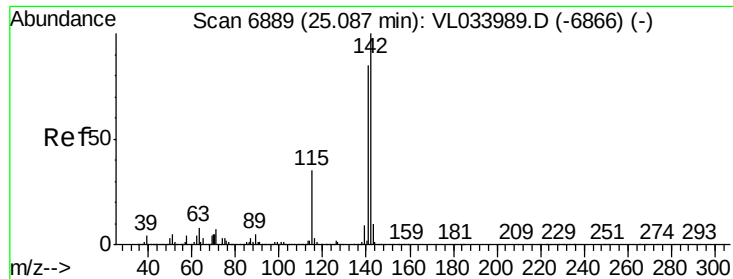
Acq: 3 Jul 2019 3:47

Tgt Ion:	128	Resp:	13914
Ion Ratio	Lower	Upper	
128	100		
127	14.3	10.6	15.8
129	15.3	8.3	12.5#



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.062 ppbv

RT: 25.09 min Scan# 6890

Delta R.T. 0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

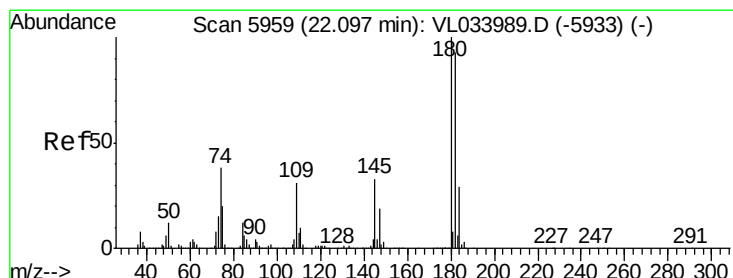
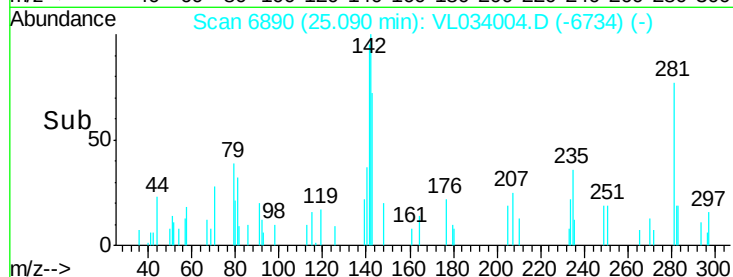
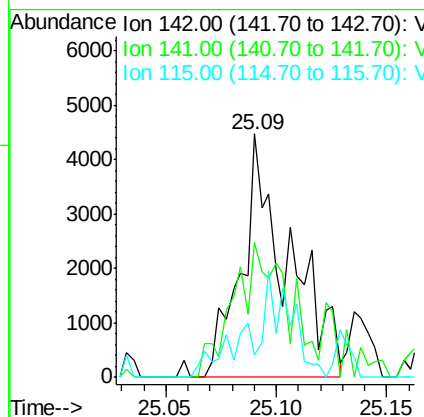
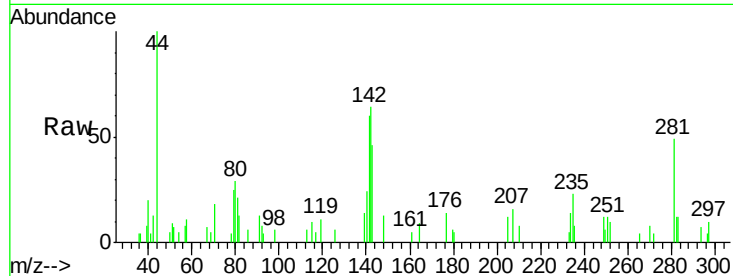
ClientSampleId :

LOD-MDL-AIR-01-QT3-2019

Tot Ion:	142	Resp:	6607
Ion Ratio	Lower	Upper	
142	100		
141	71.2	68.2	102.2
115	43.4	29.9	44.9

Manual Integrations
APPROVED

MMDadoda
7/3/2019 11:03:44 PM



#81

1,2,4-Trichlorobenzene

Concen: 0.081 ppbv m

RT: 22.10 min Scan# 5960

Delta R.T. 0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Tgt Ion:	180	Resp:	15150
Ion Ratio	Lower	Upper	
180	100		
182	84.1	76.6	114.8
184	0.0	24.6	36.8#

