

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034312.D
 Acq On : 17 Oct 2019 00:40
 Operator : SY/AP
 Sample : K5111-13 0.1 PPB LOD
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:05:07 PM

Quant Time: Oct 17 14:43:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1039307	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.23	114	1969320	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.17	117	1972486	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1719394	10.29	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	26073	0.146 ppbv	97
3) Chlorodifluoromethane	2.98	51	15292	0.126 ppbv	98
4) Chloromethane	3.14	50	9554m	0.133 ppbv	
5) Vinyl Chloride	3.26	62	7190m	0.105 ppbv	
6) Bromomethane	3.47	94	4436	0.132 ppbv #	58
7) Chloroethane	3.55	64	2729m	0.113 ppbv	
8) Dichlorotetrafluoroethane	3.18	85	17542	0.113 ppbv	87
9) Propene	3.00	41	6609m	0.122 ppbv	
10) Heptane	8.19	43	10430m	0.075 ppbv	
11) Trichlorofluoromethane	3.96	101	21346	0.125 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.50	101	13856m	0.124 ppbv	
13) Ethanol	3.63	45	1871m	0.155 ppbv	
14) Bromoethene	3.75	108	4689m	0.107 ppbv	
15) Acetone	3.88	43	36237	0.244 ppbv	92
16) 1,3-Butadiene	3.33	39	7357m	0.122 ppbv	
17) tert-Butyl alcohol	4.34	59	12829m	0.135 ppbv	
18) 1,1-Dichloroethene	4.31	96	5102m	0.105 ppbv	
19) Isopropyl Alcohol	4.01	45	11237	0.136 ppbv #	86
20) Methylene Chloride	4.36	84	10582m	0.197 ppbv	
21) Allyl Chloride	4.43	41	7612	0.093 ppbv #	61
22) trans-1,2-Dichloroethene	4.92	96	5926	0.122 ppbv #	86
23) Vinyl Acetate	5.11	43	17368	0.094 ppbv #	75
24) 1,1-Dichloroethane	5.04	63	14862	0.108 ppbv #	91
25) Ethyl Acetate	5.73	43	27590m	0.110 ppbv	
26) Hexane	5.73	57	9639	0.090 ppbv #	66
27) Carbon Disulfide	4.57	76	11269m	0.101 ppbv	
28) Methyl tert-Butyl Ether	5.08	73	13749m	0.085 ppbv	
29) Chloroform	5.78	83	18611m	0.110 ppbv	
30) Cyclohexane	7.23	84	12177m	0.155 ppbv	
31) cis-1,2-Dichloroethene	5.58	61	10107m	0.093 ppbv	
32) 1,1,1-Trichloroethane	6.56	97	15168	0.092 ppbv #	86
34) 2-Butanone	5.30	43	15716m	0.098 ppbv	
35) Carbon Tetrachloride	7.08	117	18536m	0.108 ppbv	
36) Benzene	6.94	78	18037m	0.095 ppbv	
37) 1,2-Dichloroethane	6.36	62	17306m	0.123 ppbv	
38) Trichloroethene	7.89	130	8317m	0.110 ppbv	
39) 1,2-Dichloropropane	7.67	63	8589m	0.106 ppbv	
40) 1,4-Dioxane	7.98	88	2780m	0.097 ppbv	
41) Tetrahydrofuran	6.13	42	7241m	0.081 ppbv	
42) Bromodichloromethane	7.84	83	17921m	0.104 ppbv	
43) Methyl Methacrylate	8.08	69	6049m	0.077 ppbv	

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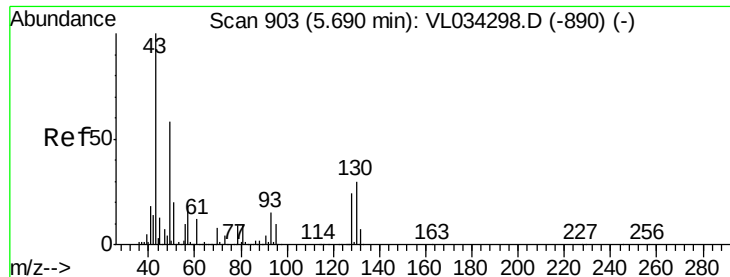
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	24808	0.071	ppbv	# 70
45) t-1,3-Dichloropropene	9.36	75	5690m	0.060	ppbv	
46) cis-1,3-Dichloropropene	8.76	75	7625m	0.070	ppbv	
47) 1,1,2-Trichloroethane	9.55	97	9485m	0.115	ppbv	
48) Dibromochloromethane	10.38	129	11499m	0.085	ppbv	
49) Bromoform	13.13	173	9313m	0.078	ppbv	
50) 4-Methyl-2-Pentanone	8.85	43	18160m	0.079	ppbv	
51) 2-Hexanone	10.24	43	13621m	0.072	ppbv	
52) Tetrachloroethene	11.29	164	6747m	0.091	ppbv	
53) Toluene	9.87	91	16084m	0.077	ppbv	
54) 1,2-Dibromoethane	10.70	107	12526m	0.103	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.21	131	10173m	0.112	ppbv	
57) Chlorobenzene	12.23	112	20023m	0.122	ppbv	
58) Ethyl Benzene	12.79	91	22379m	0.081	ppbv	
59) m/p-Xylene	13.08	91	41085m	0.172	ppbv	
60) o-Xylene	13.78	91	19073m	0.080	ppbv	
61) Styrene	13.62	104	10242m	0.061	ppbv	
62) Isopropylbenzene	14.75	105	27846m	0.089	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.77	83	20189m	0.106	ppbv	
64) n-propylbenzene	15.66	120	5164m	0.064	ppbv	
65) tert-Butylbenzene	16.84	119	18438m	0.066	ppbv	
66) Benzyl Chloride	17.09	91	8873m	0.081	ppbv	
67) sec-Butylbenzene	17.40	105	28057m	0.072	ppbv	
69) p-Isopropyltoluene	17.75	119	19639m	0.062	ppbv	
70) n-Butylbenzene	18.66	91	24116m	0.069	ppbv	
71) 2-Chlorotoluene	15.54	91	18514m	0.076	ppbv	
72) 4-Ethyltoluene	15.93	105	20107m	0.075	ppbv	
73) 1,3,5-Trimethylbenzene	16.09	105	19046m	0.072	ppbv	
74) 1,2,4-Trimethylbenzene	16.86	105	20714m	0.075	ppbv	
75) 1,3-Dichlorobenzene	17.10	146	18658m	0.112	ppbv	
76) 1,4-Dichlorobenzene	17.25	146	16242m	0.100	ppbv	
77) 1,2-Dichlorobenzene	17.92	146	16676m	0.103	ppbv	
78) Hexachloro-1,3-Butadiene	23.48	225	14079m	0.105	ppbv	
79) Naphthalene	22.34	128	10032m	0.050	ppbv	
80) Naphthalene, 2-methyl-	25.09	142	1785m	0.031	ppbv	
81) 1,2,4-Trichlorobenzene	22.09	180	10707m	0.081	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.01 min

Lab File: VL034312.D

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Tot Ion: 49 Resp: 1039307

Ion Ratio Lower Upper

49 100

128 41.4 20.6 61.8

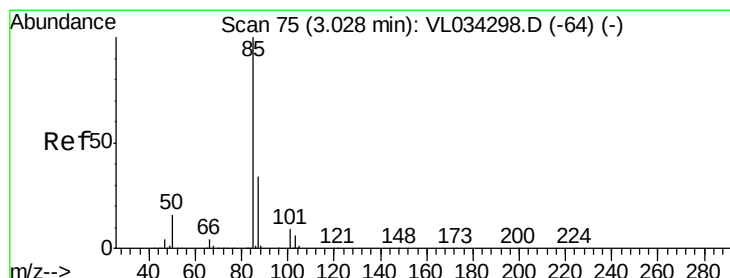
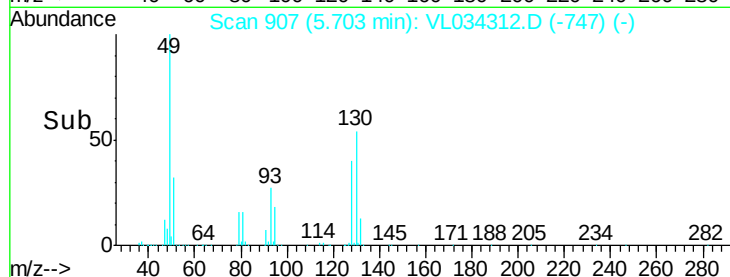
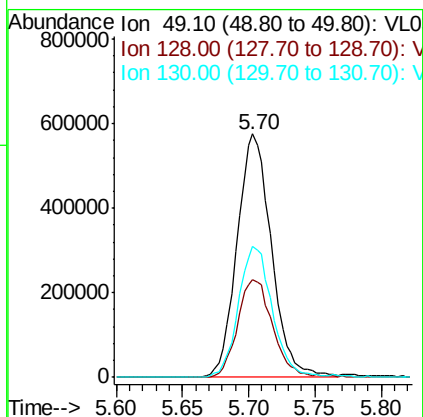
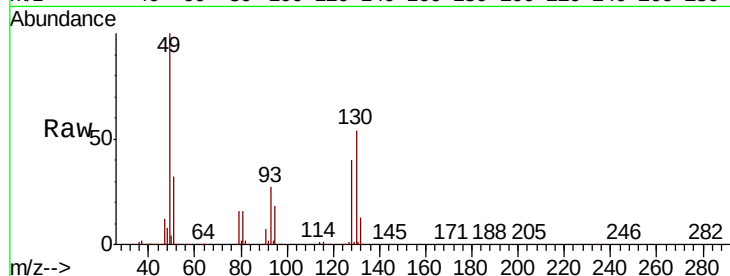
130 53.6 26.2 78.5

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.146 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.01 min

Lab File: VL034312.D

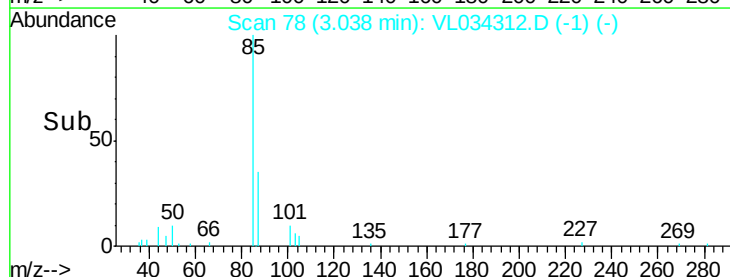
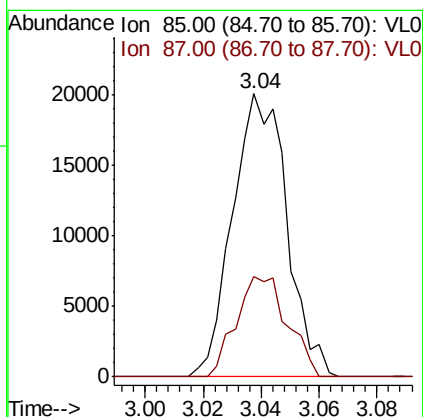
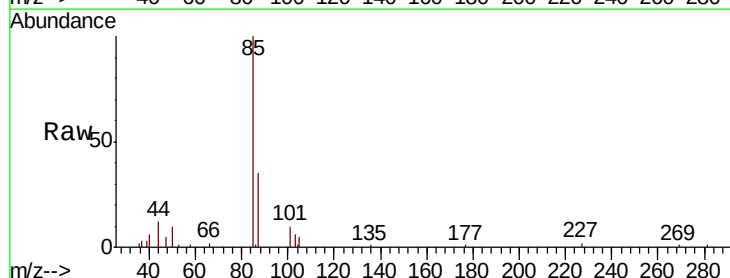
Acq: 17 Oct 2019 00:40

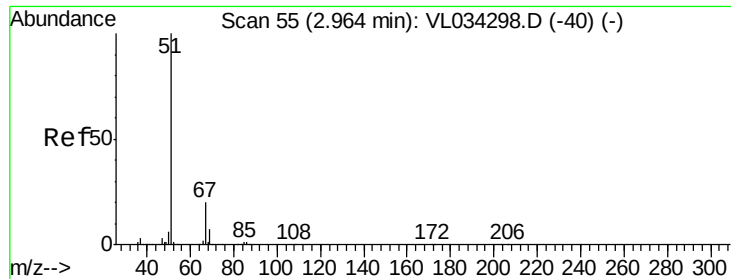
Tgt Ion: 85 Resp: 26073

Ion Ratio Lower Upper

85 100

87 35.2 27.0 40.6





#3

Chlorodifluoromethane

Concen: 0.126 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion: 51 Resp: 15292

Ion Ratio Lower Upper

51 100

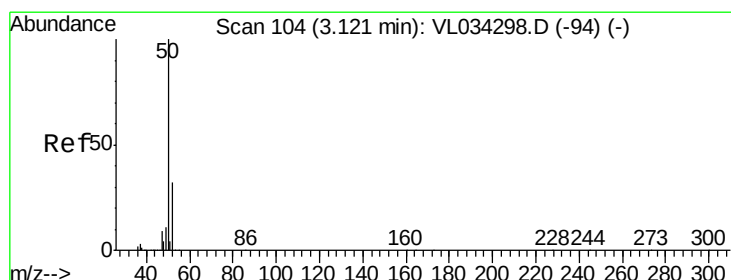
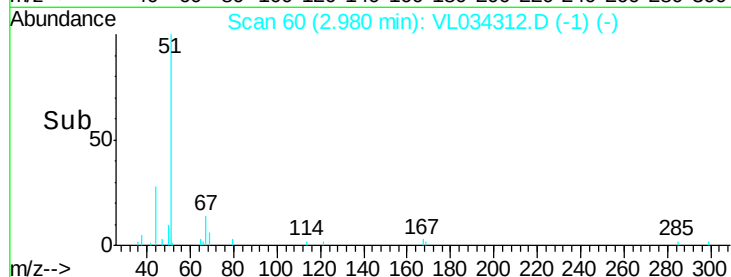
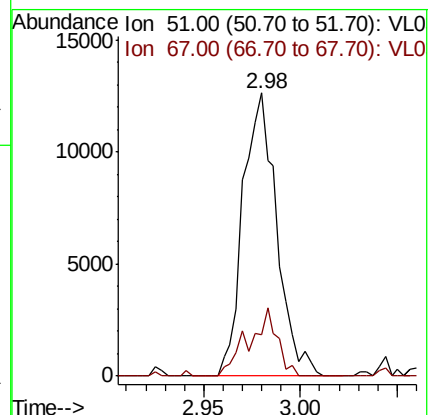
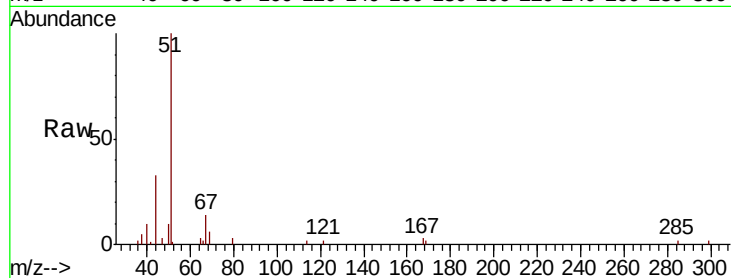
67 20.5 15.8 23.8

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#4

Chloromethane

Concen: 0.133 ppbv m

RT: 3.14 min Scan# 109

Delta R.T. 0.02 min

Lab File: VL034312.D

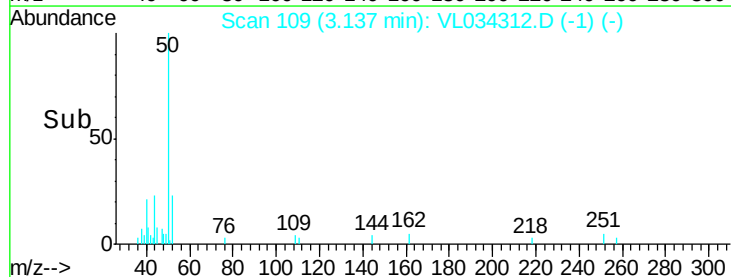
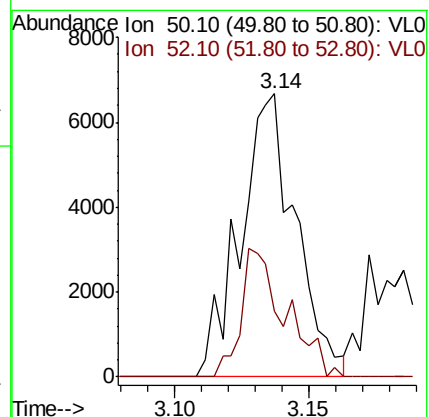
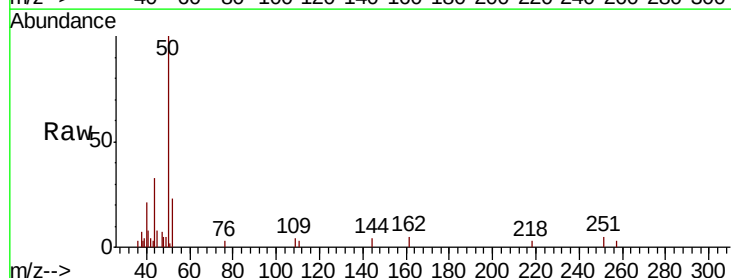
Acq: 17 Oct 2019 00:40

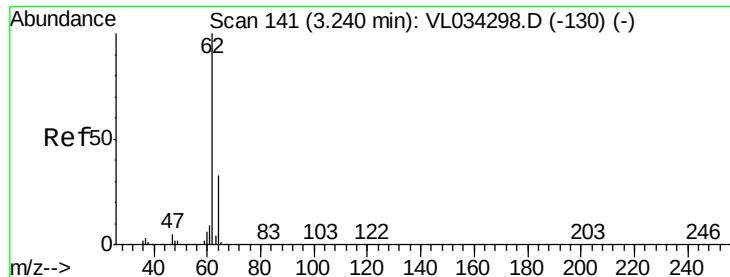
Tgt Ion: 50 Resp: 9554

Ion Ratio Lower Upper

50 100

52 23.3 25.4 38.2#





#5

Vinyl Chloride

Concen: 0.105 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion: 62 Resp: 7190

Ion Ratio Lower Upper

62 100

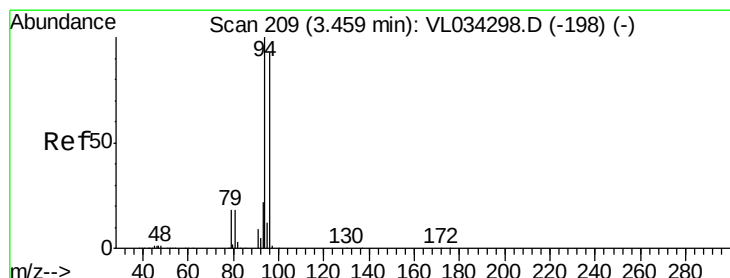
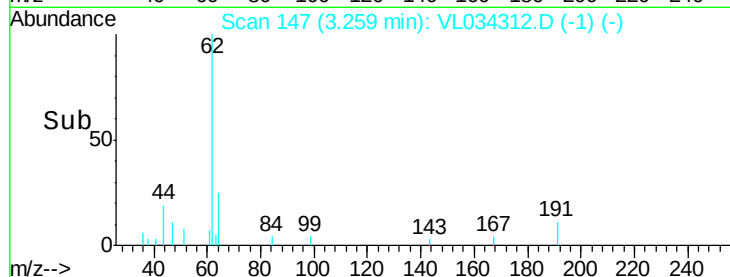
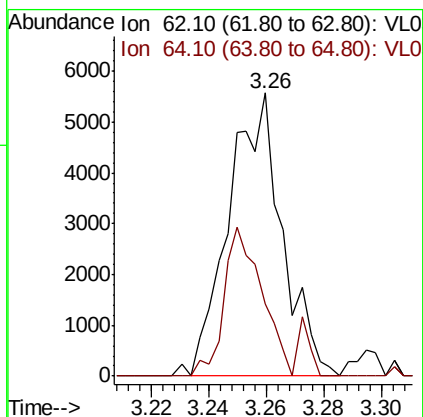
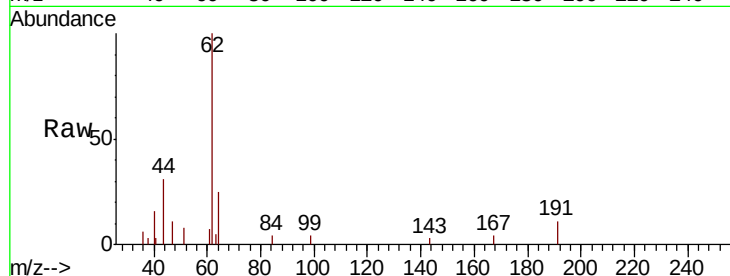
64 25.4 26.0 39.0#

Manual Integrations

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#6

Bromomethane

Concen: 0.132 ppbv

RT: 3.47 min Scan# 214

Delta R.T. 0.02 min

Lab File: VL034312.D

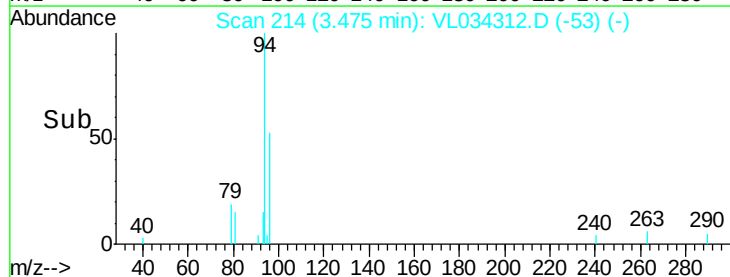
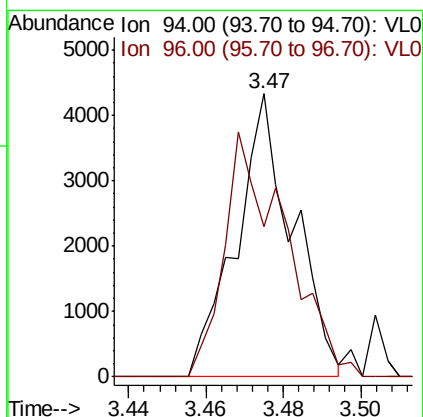
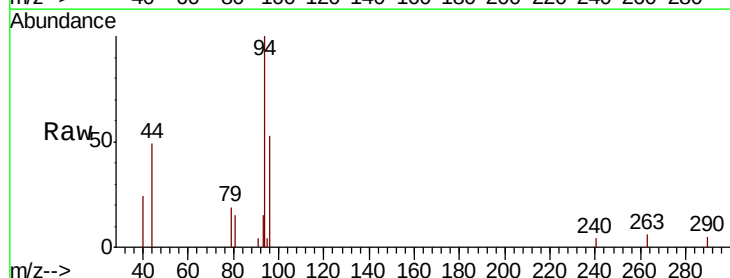
Acq: 17 Oct 2019 00:40

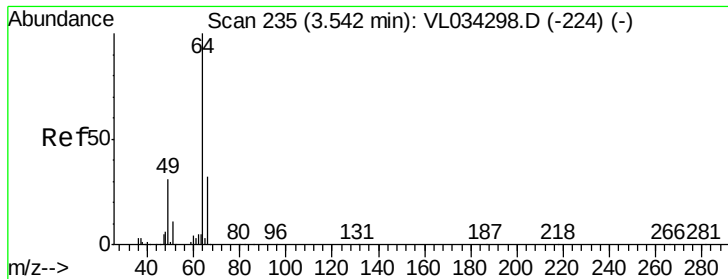
Tgt Ion: 94 Resp: 4436

Ion Ratio Lower Upper

94 100

96 53.0 74.6 112.0#





#7

Chloroethane

Concen: 0.113 ppbv m

RT: 3.55 min Scan# 238

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion: 64 Resp: 2729

Ion Ratio Lower Upper

64 100

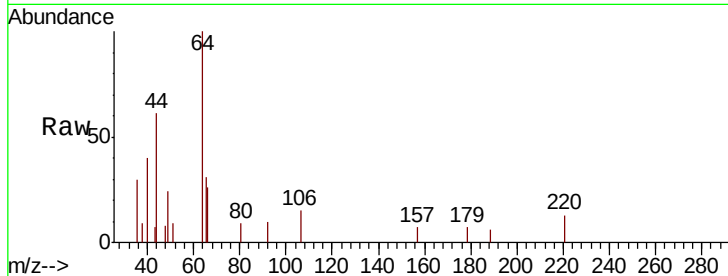
66 25.9 25.4 38.0

Manual Integrations

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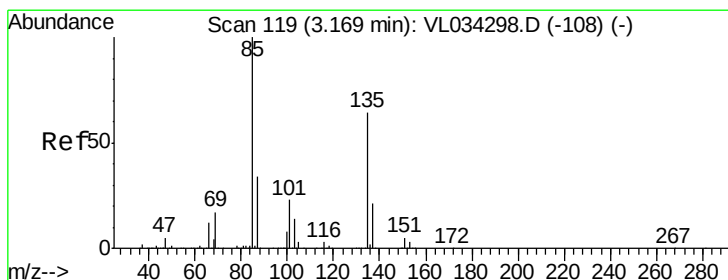
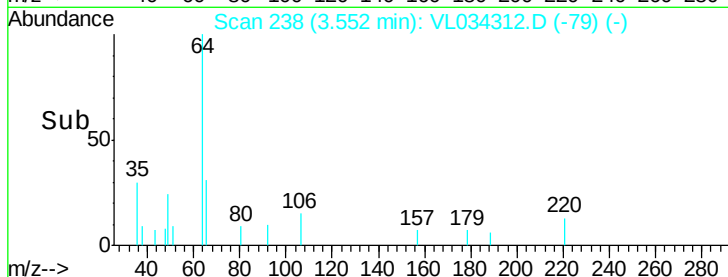
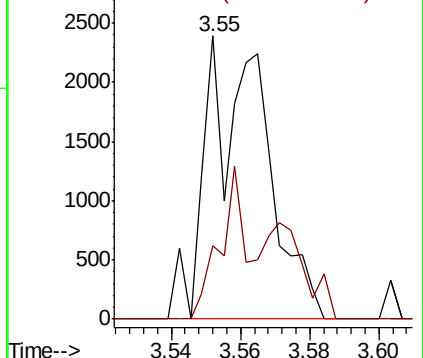
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.113 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.01 min

Lab File: VL034312.D

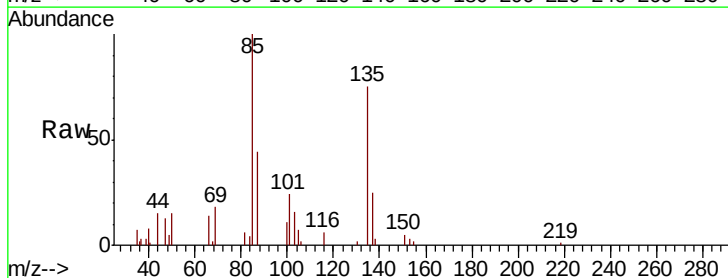
Acq: 17 Oct 2019 00:40

Tgt Ion: 85 Resp: 17542

Ion Ratio Lower Upper

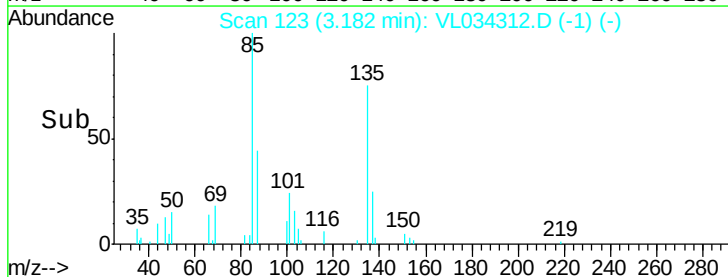
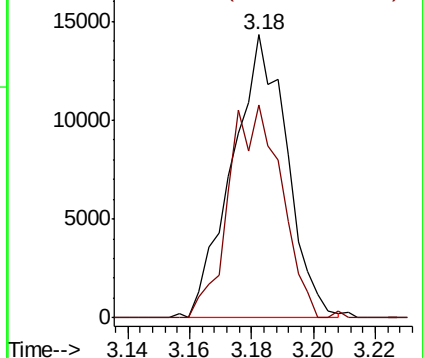
85 100

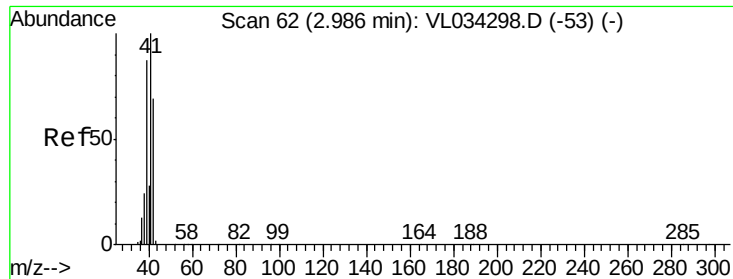
135 73.1 50.2 75.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.122 ppbv m

RT: 3.00 min Scan# 67

Delta R.T. 0.02 min

Lab File: VL034312.D

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Tot Ion: 41 Resp: 6609

Ion Ratio Lower Upper

41 100

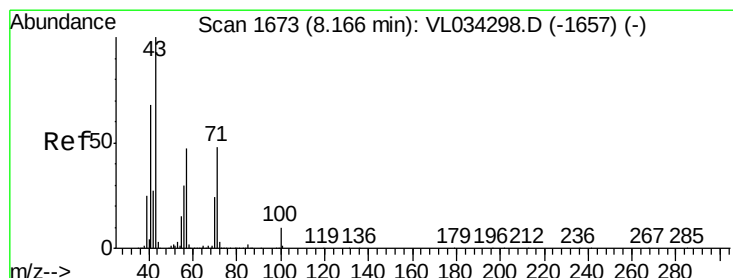
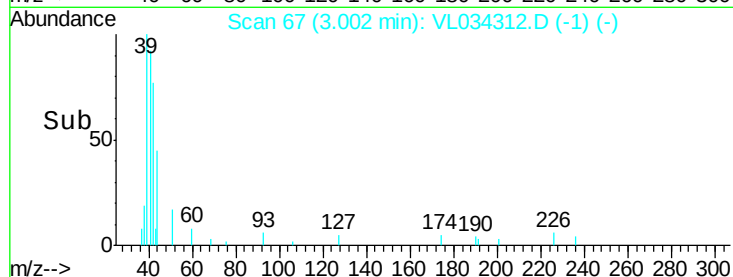
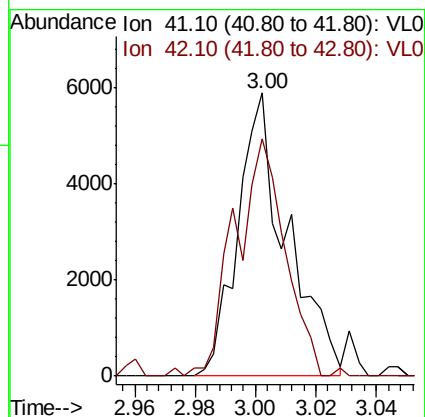
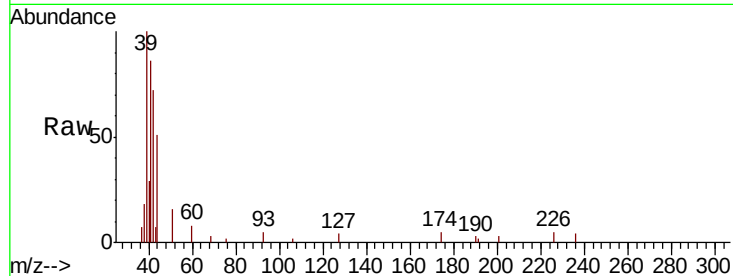
42 88.6 53.9 80.9#

Manual Integrations

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#10

Heptane

Concen: 0.075 ppbv m

RT: 8.19 min Scan# 1681

Delta R.T. 0.03 min

Lab File: VL034312.D

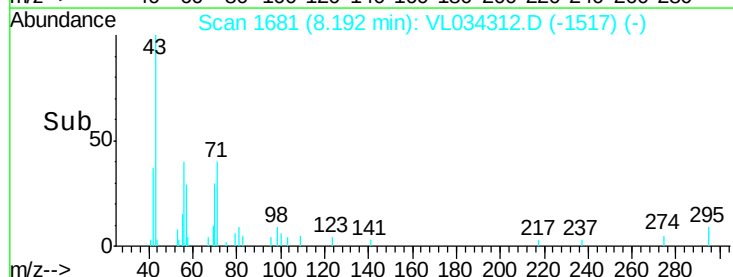
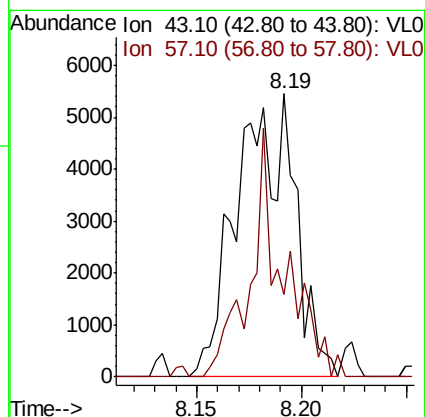
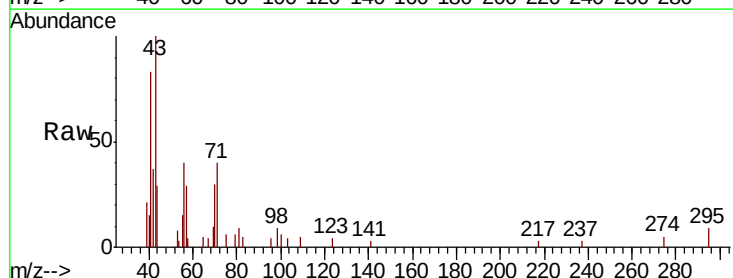
Acq: 17 Oct 2019 00:40

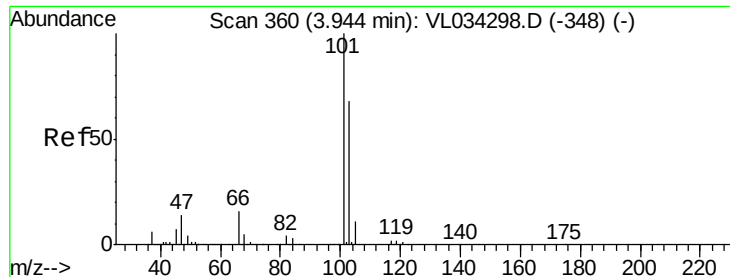
Tgt Ion: 43 Resp: 10430

Ion Ratio Lower Upper

43 100

57 51.4 39.5 59.3





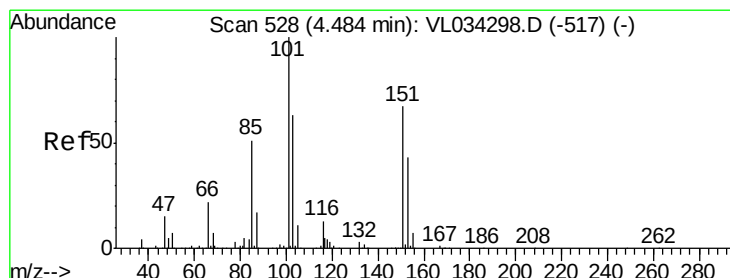
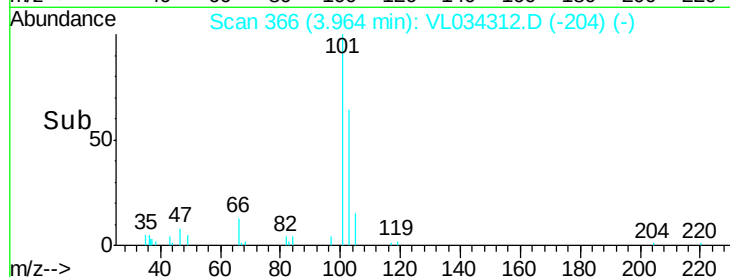
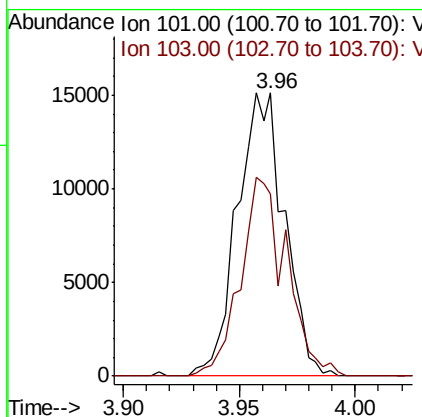
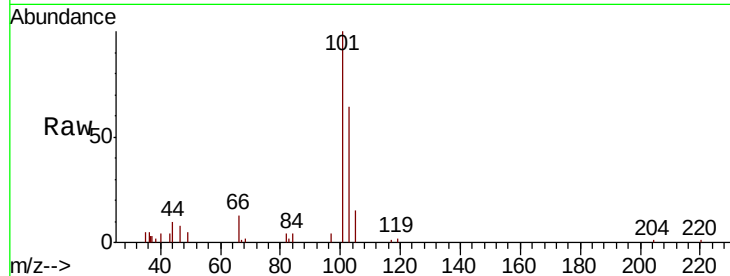
#11
 Trichlorofluoromethane
 Concen: 0.125 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Instrument :
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 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.3	54.5	81.7

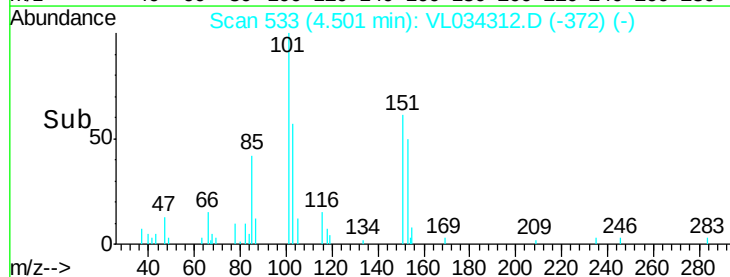
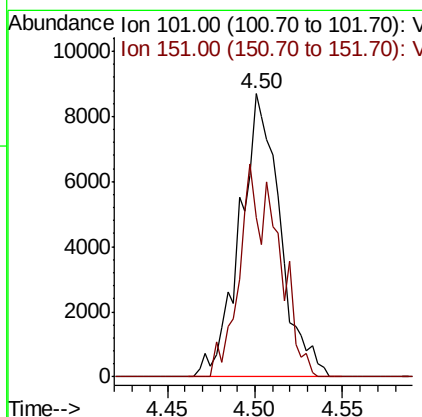
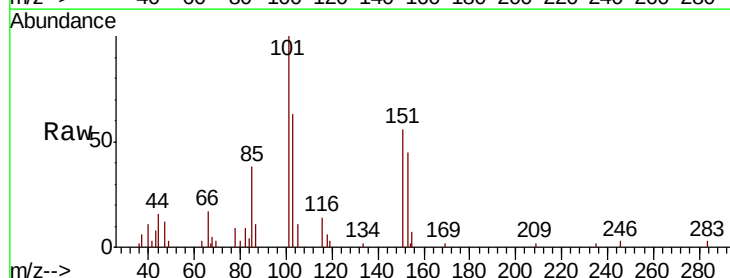
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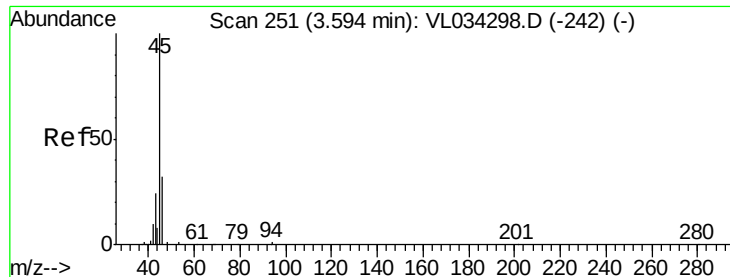
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.124 ppbv m
 RT: 4.50 min Scan# 533
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Tgt Ion	Ratio	Lower	Upper
101	100		
151	0.0	57.4	86.2#





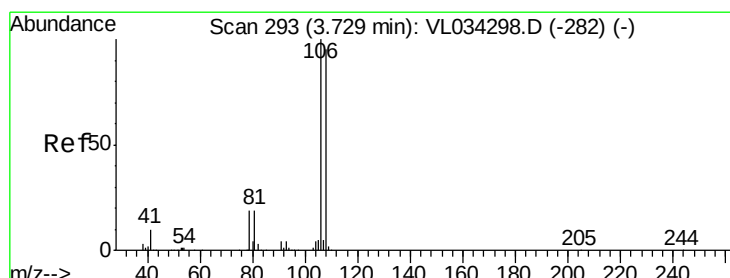
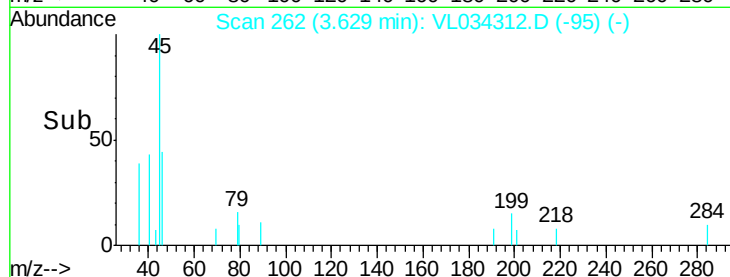
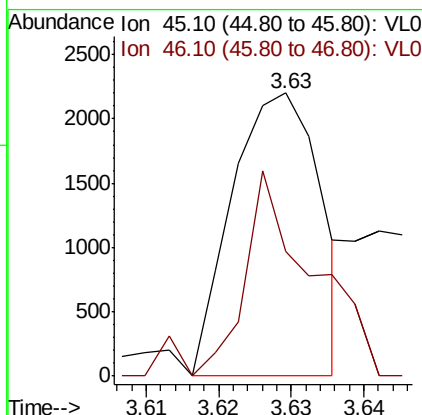
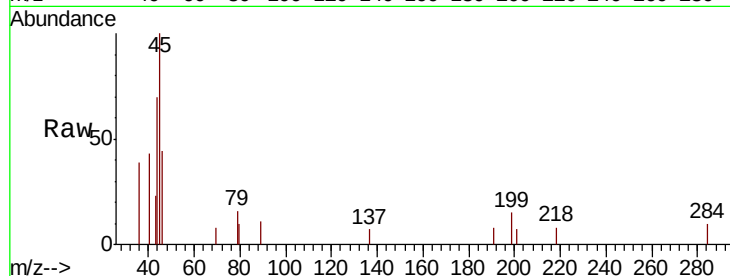
#13
Ethanol
Concen: 0.155 ppbv m
RT: 3.63 min Scan# 262
Delta R.T. 0.04 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion: 45 Resp: 1871
Ion Ratio Lower Upper
45 100
46 69.3 15.8 63.2#

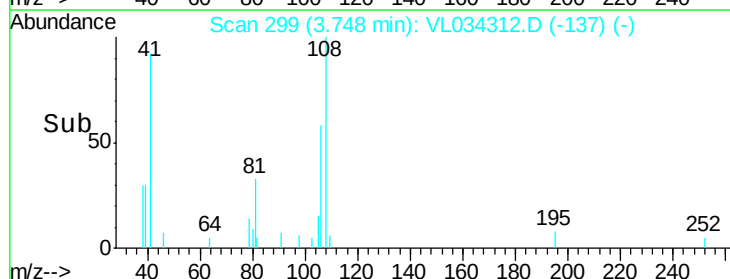
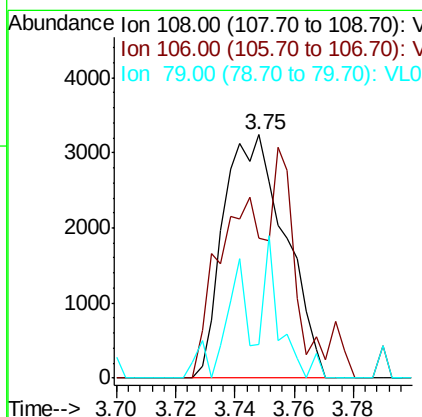
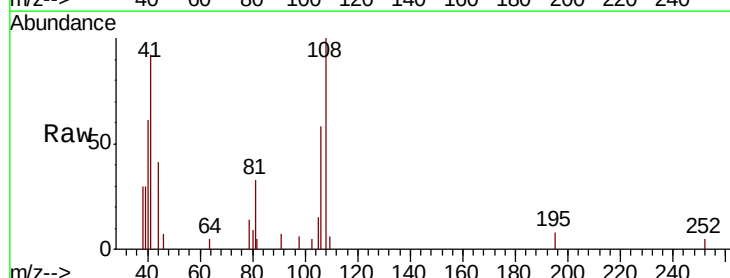
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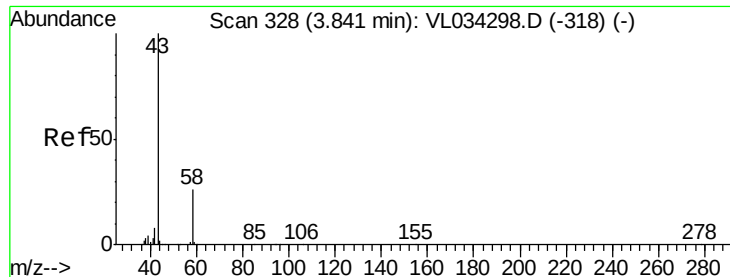
MMDadoda
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#14
Bromoethene
Concen: 0.107 ppbv m
RT: 3.75 min Scan# 299
Delta R.T. 0.02 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Tgt Ion: 108 Resp: 4689
Ion Ratio Lower Upper
108 100
106 97.9 84.8 127.2
79 33.8 17.0 25.4#





#15

Acetone

Concen: 0.244 ppbv

RT: 3.88 min Scan# 339

Delta R.T. 0.04 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion: 43 Resp: 36237

Ion Ratio Lower Upper

43 100

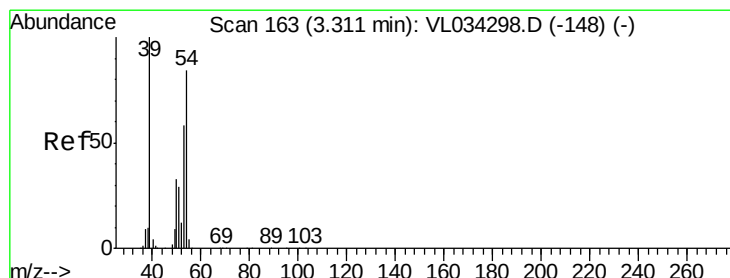
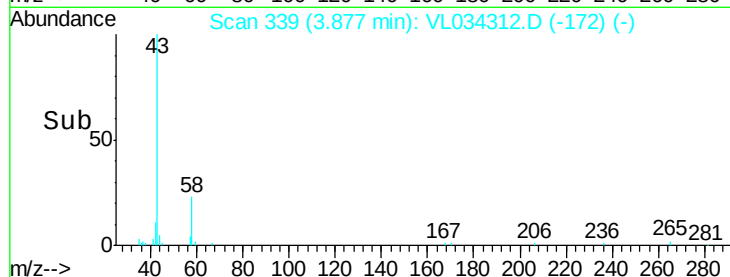
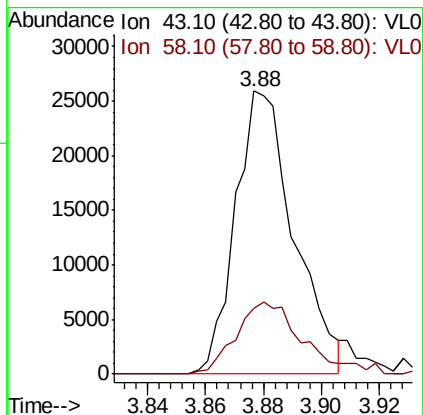
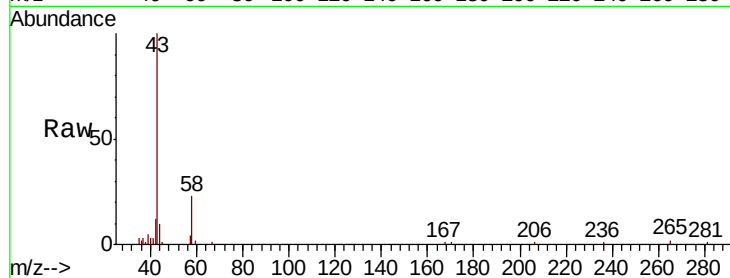
58 29.4 20.4 30.6

Manual Integrations

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#16

1,3-Butadiene

Concen: 0.122 ppbv m

RT: 3.33 min Scan# 168

Delta R.T. 0.02 min

Lab File: VL034312.D

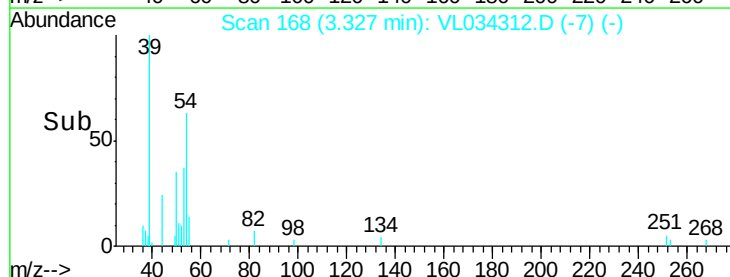
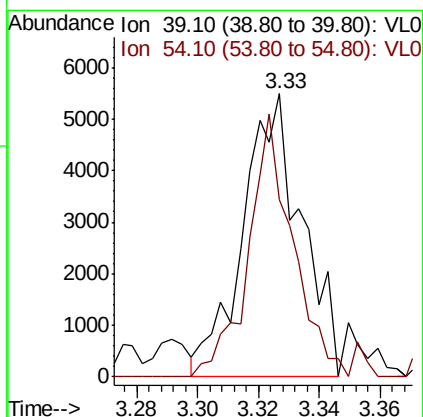
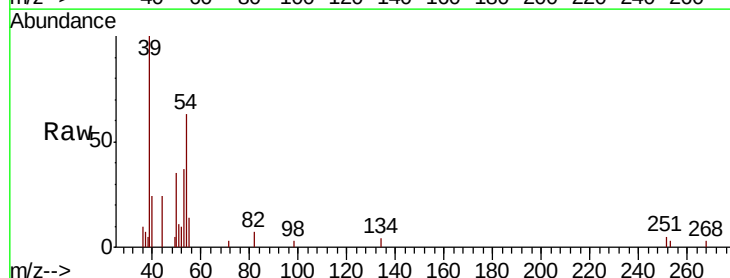
Acq: 17 Oct 2019 00:40

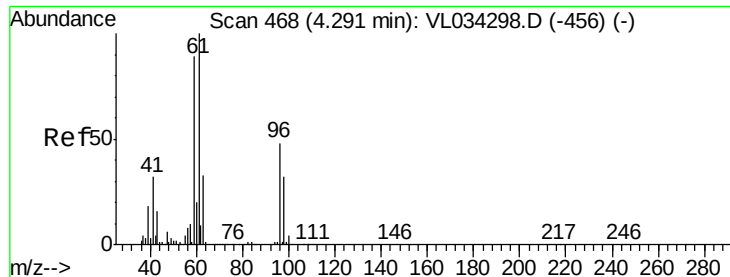
Tgt Ion: 39 Resp: 7357

Ion Ratio Lower Upper

39 100

54 73.9 63.9 95.9





#17

tert-Butyl alcohol

Concen: 0.135 ppbv m

RT: 4.34 min Scan# 484

Delta R.T. 0.05 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion: 59 Resp: 12829

Ion Ratio Lower Upper

59 100

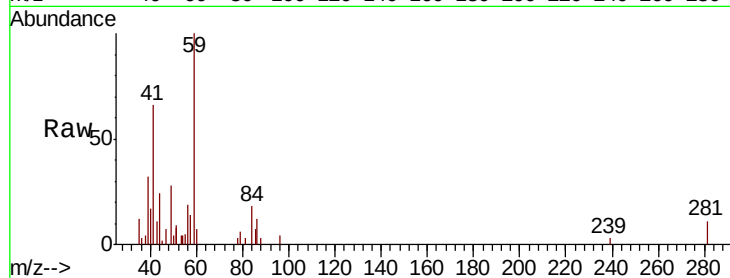
57 0.0 8.8 13.2#

Manual Integrations

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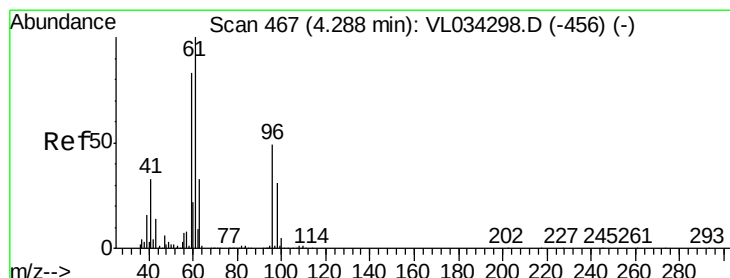
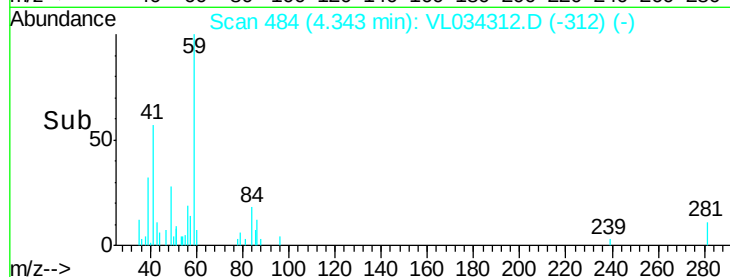
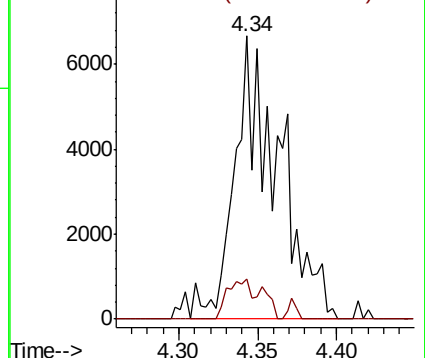
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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.105 ppbv m

RT: 4.31 min Scan# 473

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

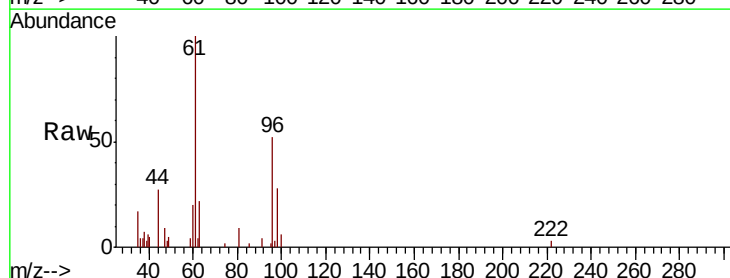
Tgt Ion: 96 Resp: 5102

Ion Ratio Lower Upper

96 100

61 193.1 164.5 246.7

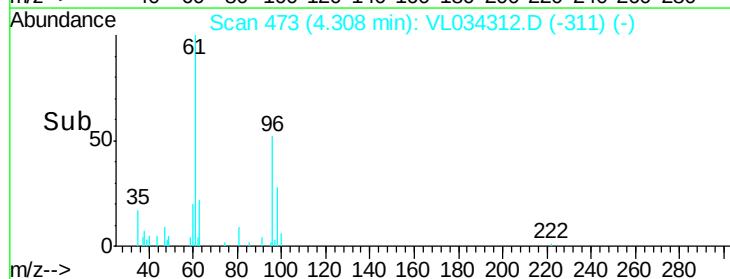
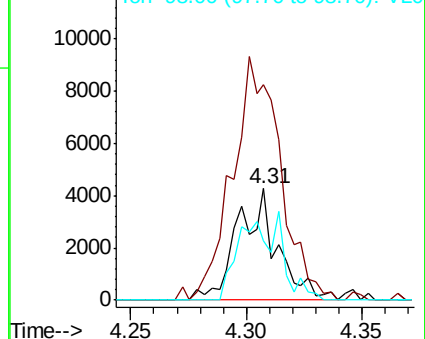
98 53.5 51.7 77.5

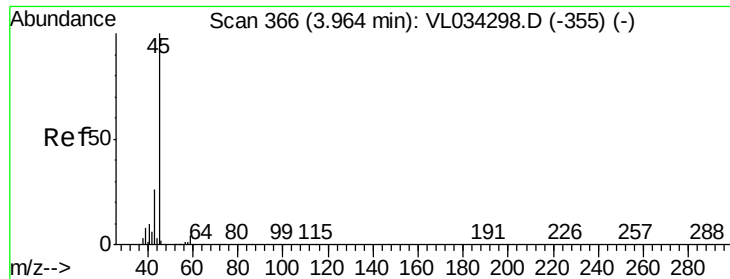


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.136 ppbv

RT: 4.01 min Scan# 381

Delta R.T. 0.05 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion: 45 Resp: 11237

Ion Ratio Lower Upper

45 100

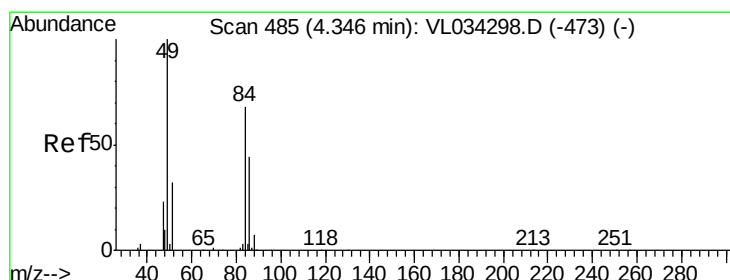
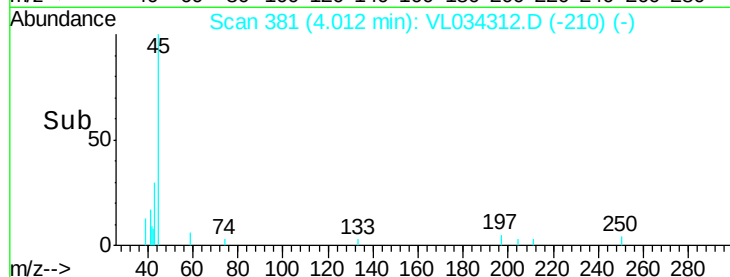
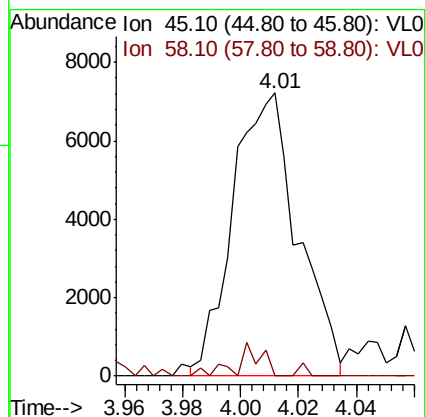
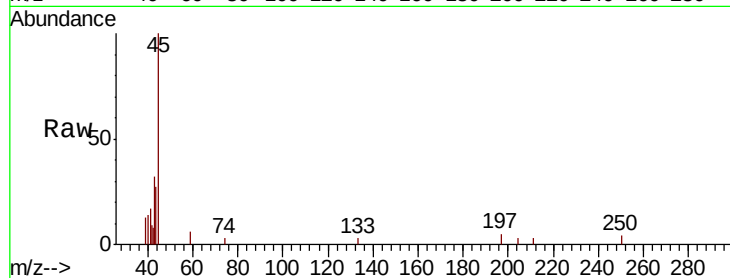
58 6.9 1.4 2.2#

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#20

Methylene Chloride

Concen: 0.197 ppbv m

RT: 4.36 min Scan# 490

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion: 84 Resp: 10582

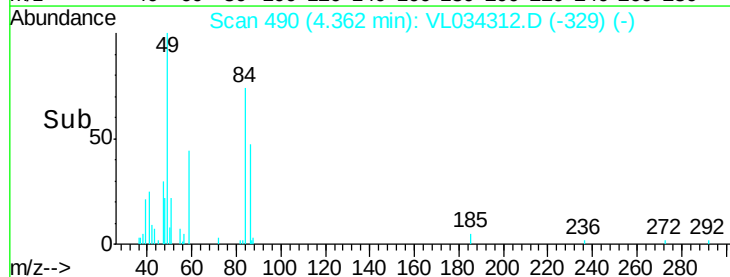
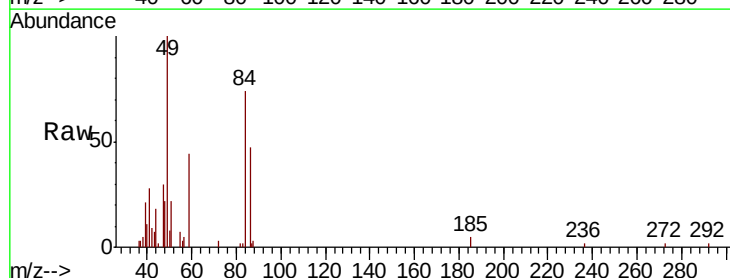
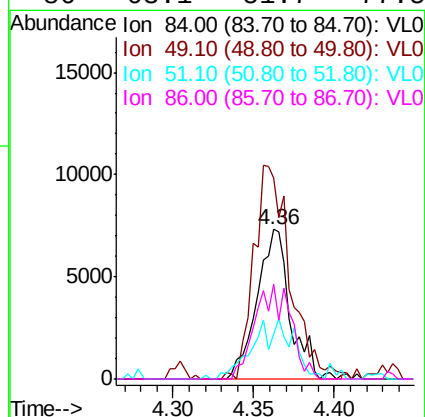
Ion Ratio Lower Upper

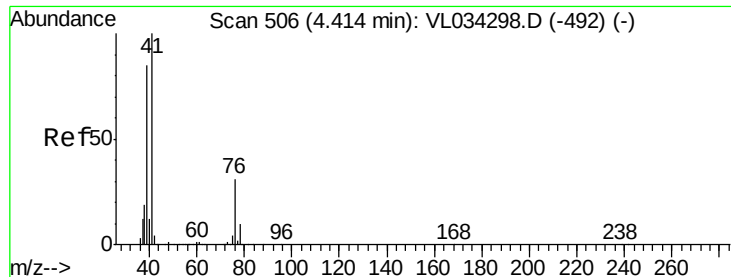
84 100

49 134.7 118.5 177.7

51 29.7 38.8 58.2#

86 63.1 51.7 77.5





#21

Allvl Chloride

Concen: 0.093 ppbv

RT: 4.43 min Scan# 512

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

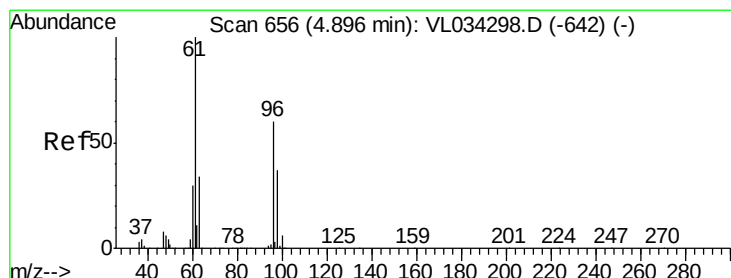
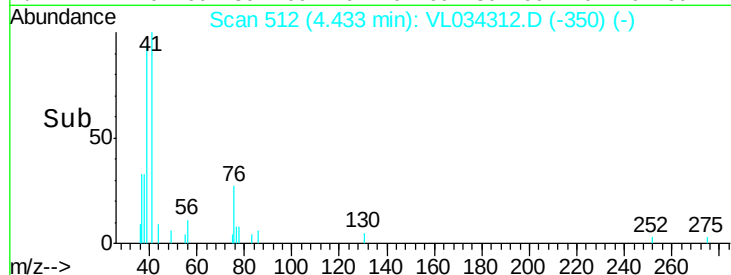
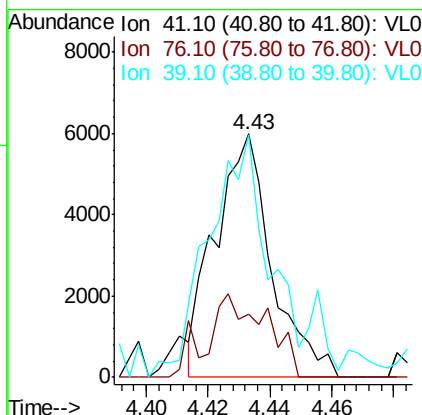
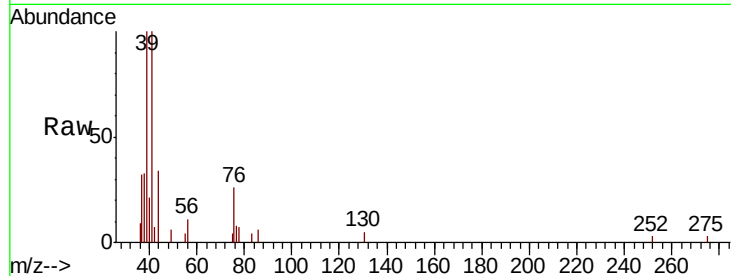
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:	41	Resp:	7612
Ion Ratio	Lower	Upper	
41	100		
76	37.2	22.8	34.2#
39	123.9	66.0	99.0#

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#22

trans-1,2-Dichloroethene

Concen: 0.122 ppbv

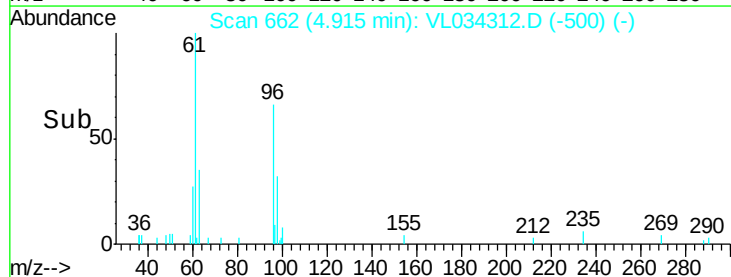
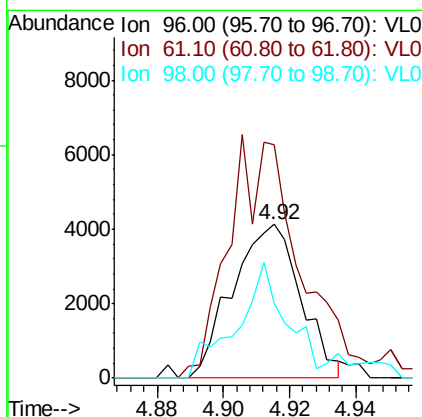
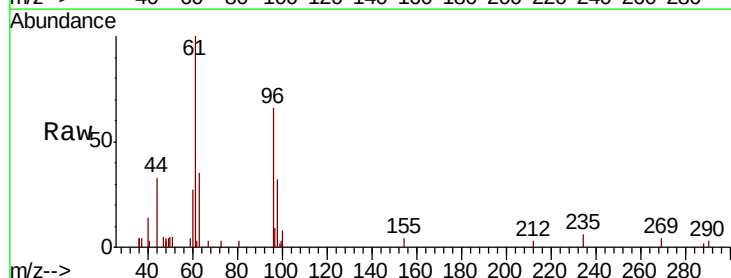
RT: 4.92 min Scan# 662

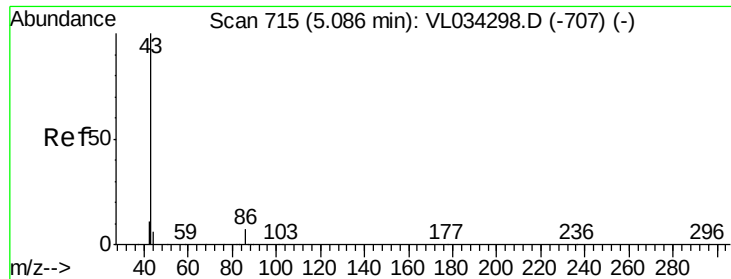
Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion:	96	Resp:	5926
Ion Ratio	Lower	Upper	
96	100		
61	148.8	133.8	200.6
98	48.8	49.4	74.0#





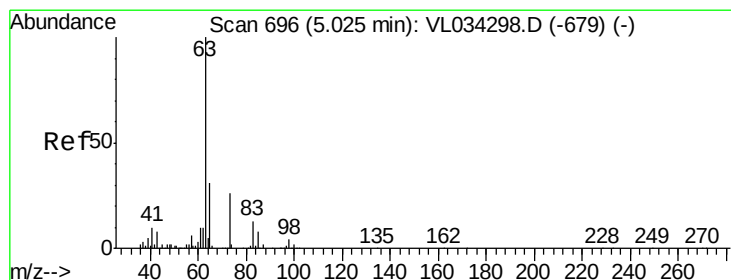
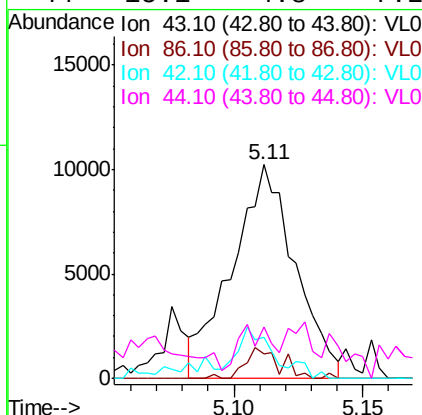
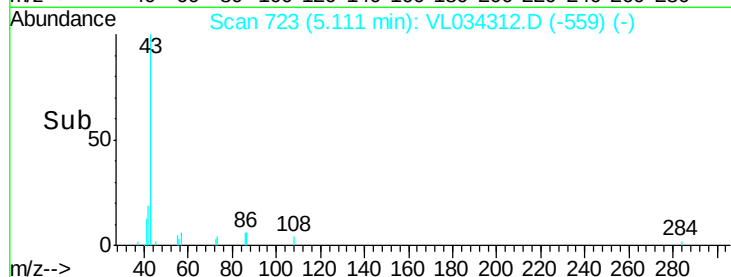
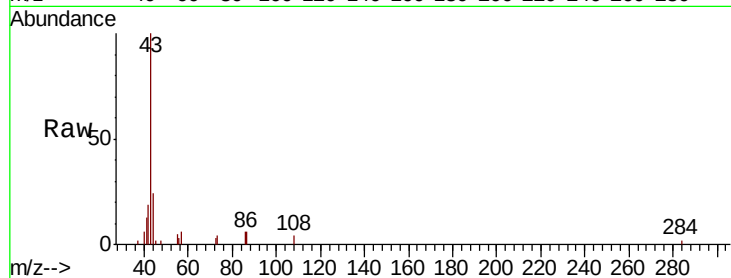
#23
 Vinyl Acetate
 Concen: 0.094 ppbv
 RT: 5.11 min Scan# 723
 Delta R.T. 0.03 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		17368		
86	12.6	5.0	7.4#		
42	20.9	8.6	13.0#		
44	15.1	4.8	7.2#		

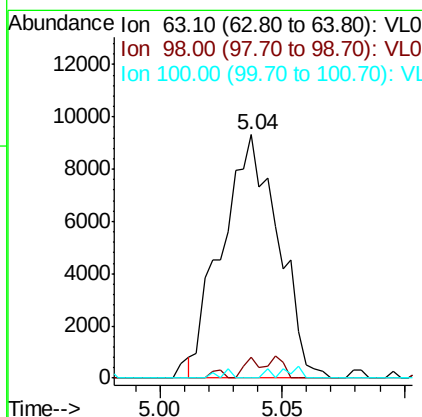
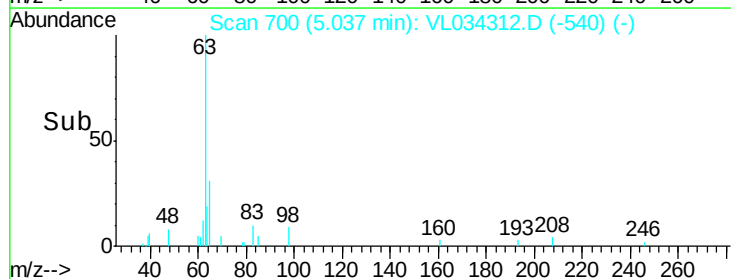
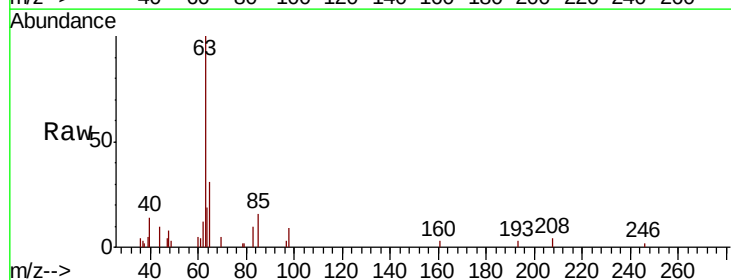
Manual Integrations
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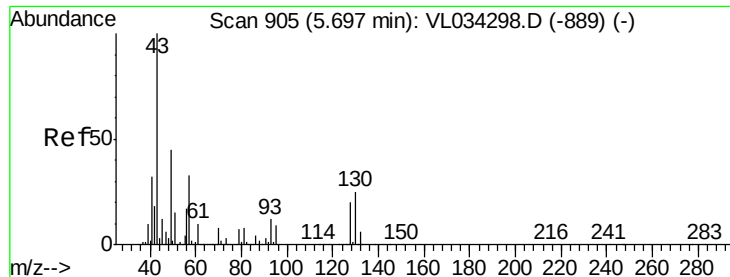
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#24
 1,1-Dichloroethane
 Concen: 0.108 ppbv
 RT: 5.04 min Scan# 700
 Delta R.T. 0.01 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100		14862		
98	7.2	2.0	6.0#		
100	0.0	1.1	3.5#		





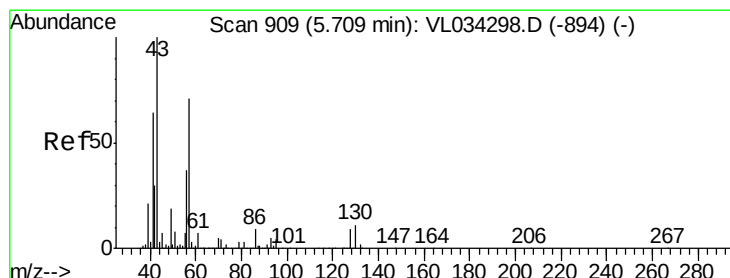
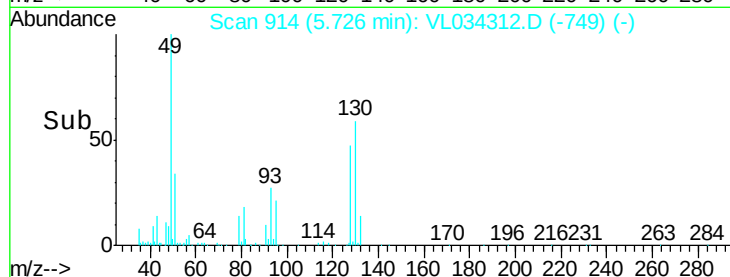
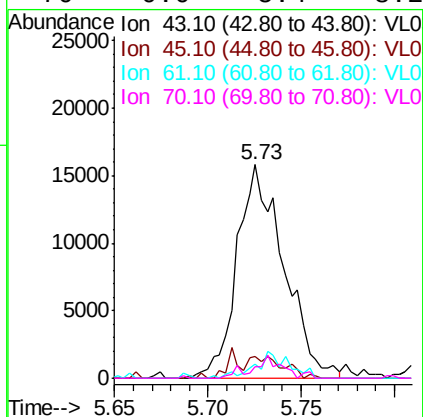
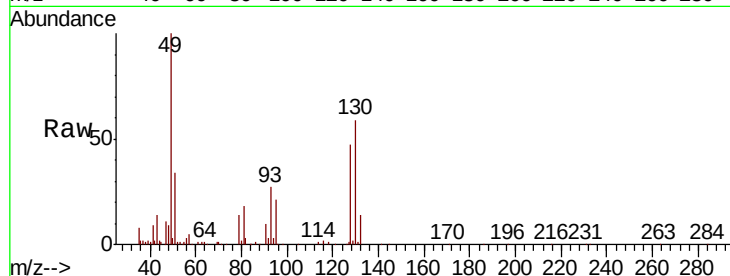
#25
Ethyl Acetate
Concen: 0.110 ppbv m
RT: 5.73 min Scan# 914
Delta R.T. 0.03 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
45	11.4	8.3	12.5
61	0.0	7.7	11.5#
70	0.0	5.4	8.2#

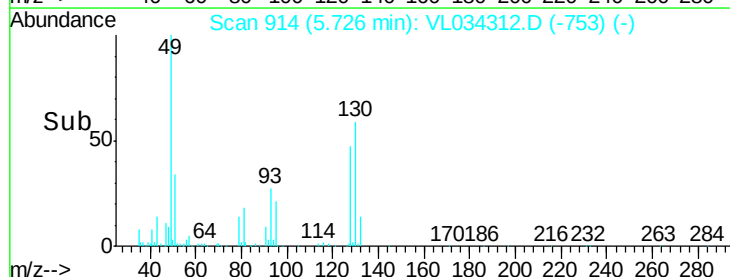
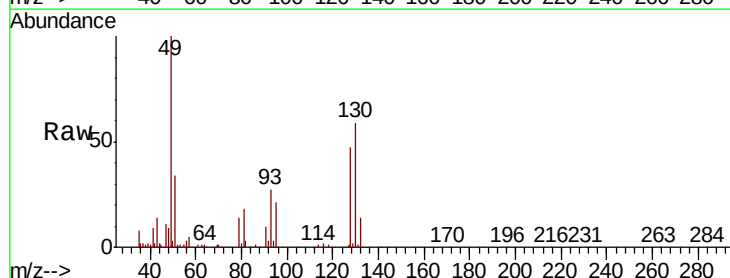
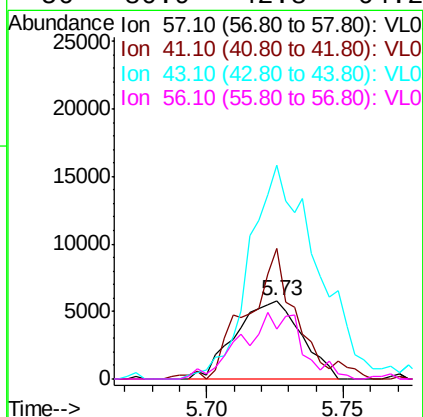
Manual Integrations
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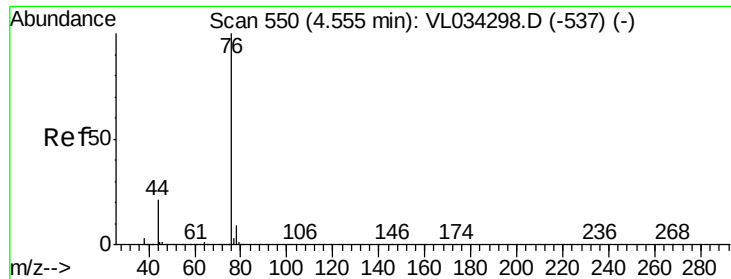
MMDadoda
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#26
Hexane
Concen: 0.090 ppbv
RT: 5.73 min Scan# 914
Delta R.T. 0.02 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Tgt Ion	Ratio	Lower	Upper
57	100		
41	128.8	76.5	114.7#
43	291.1	188.5	282.7#
56	80.9	42.8	64.2#





#27

Carbon Disulfide

Concen: 0.101 ppbv m

RT: 4.57 min Scan# 556

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

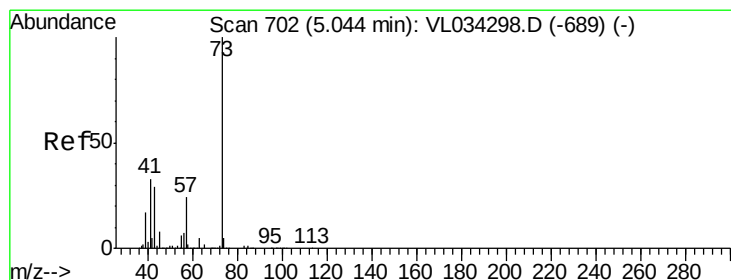
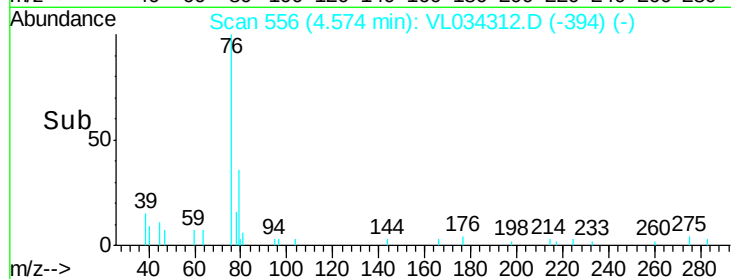
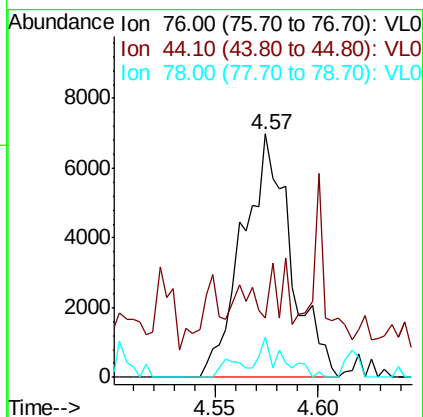
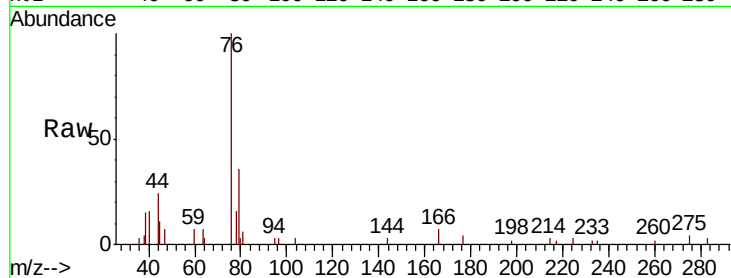
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:	76	Resp:	11269
Ion	Ratio	Lower	Upper
76	100		
44	10.9	17.3	25.9#
78	11.2	7.8	11.6

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.085 ppbv m

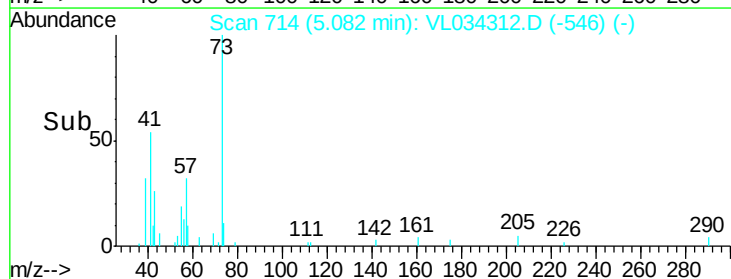
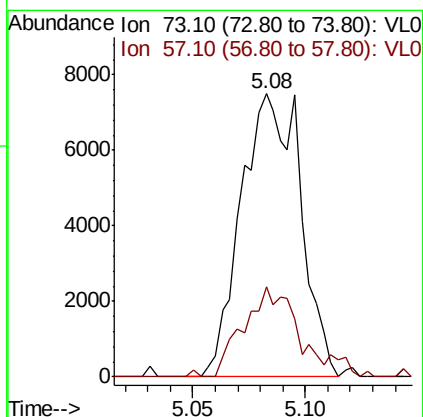
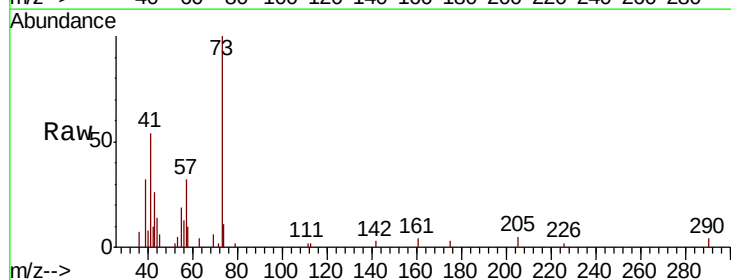
RT: 5.08 min Scan# 714

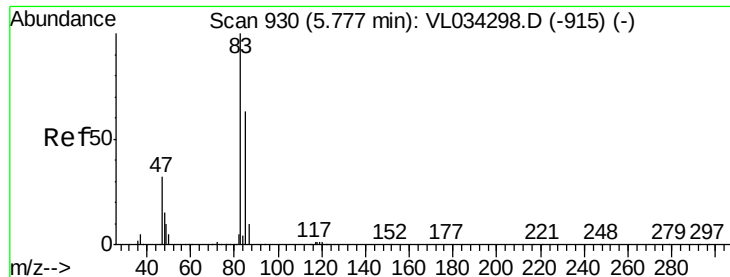
Delta R.T. 0.04 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion:	73	Resp:	13749
Ion	Ratio	Lower	Upper
73	100		
57	30.8	19.2	28.8#





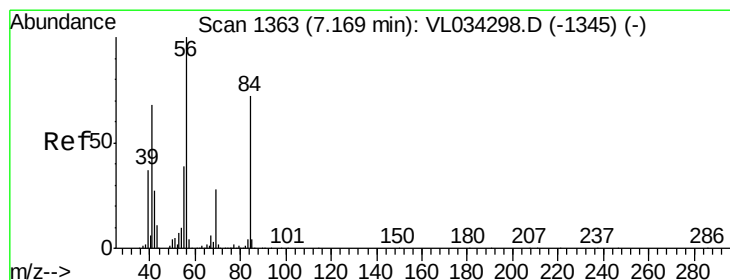
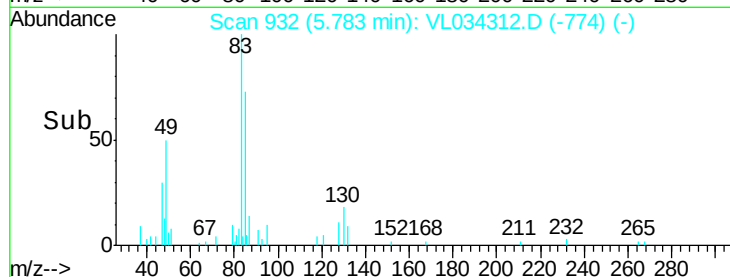
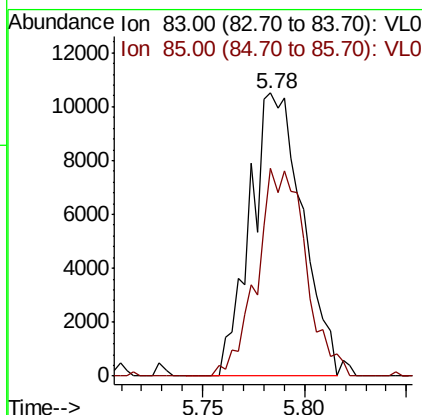
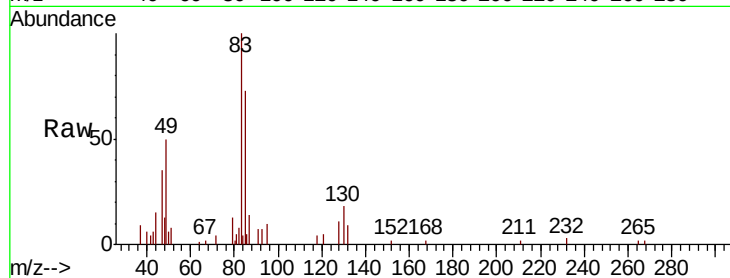
#29
Chloroform
Concen: 0.110 ppbv m
RT: 5.78 min Scan# 932
Delta R.T. 0.01 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion: 83 Resp: 18611
Ion Ratio Lower Upper
83 100
85 73.3 50.5 75.7

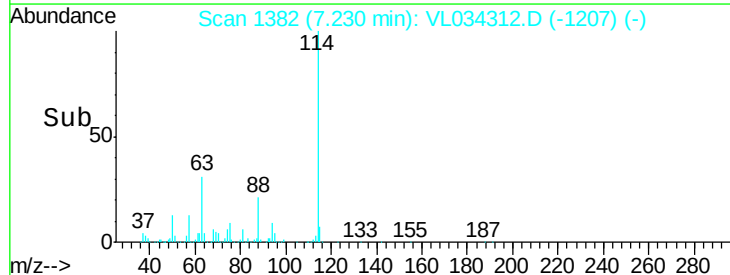
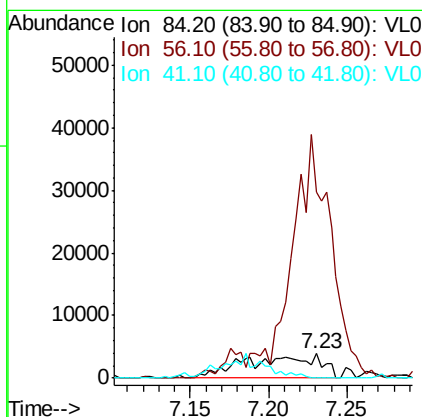
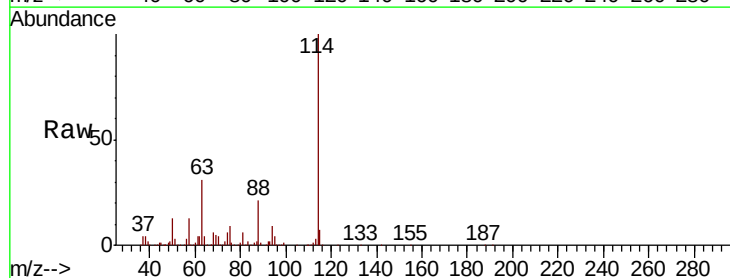
Manual Integrations
APPROVED

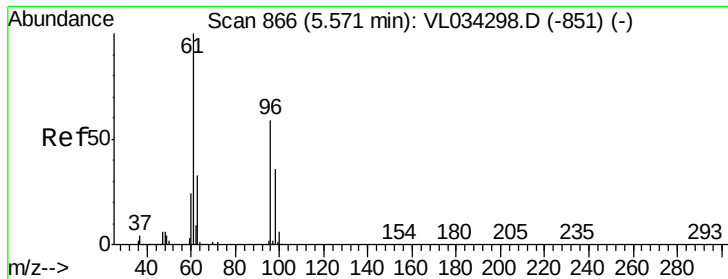
MMDadoda
10/18/2019 3:05:07 PM



#30
Cyclohexane
Concen: 0.155 ppbv m
RT: 7.23 min Scan# 1382
Delta R.T. 0.06 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Tgt Ion: 84 Resp: 12177
Ion Ratio Lower Upper
84 100
56 0.0 119.4 179.0#
41 58.8 78.7 118.1#





#31

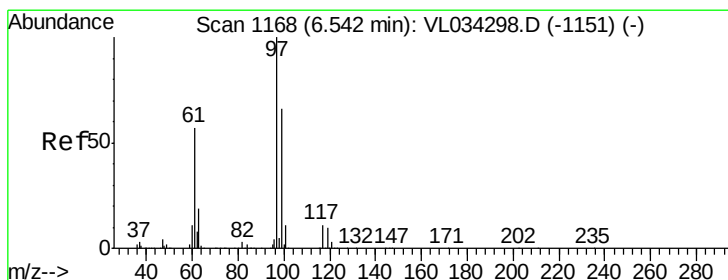
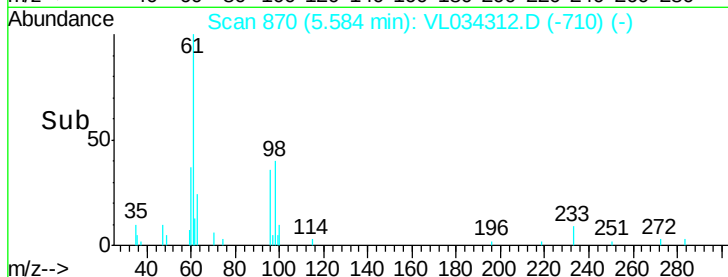
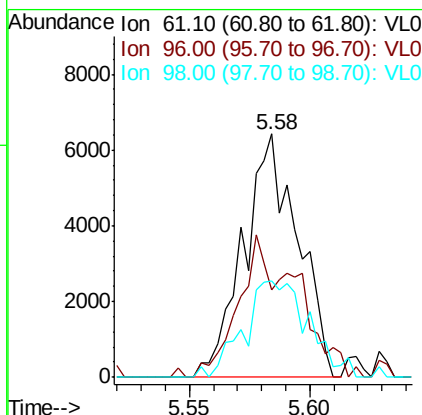
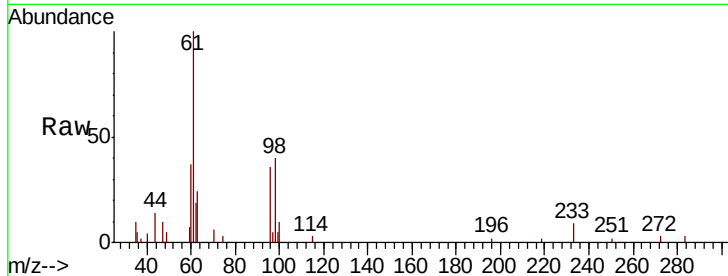
cis-1,2-Dichloroethene
 Concen: 0.093 ppbv m
 RT: 5.58 min Scan# 870
 Delta R.T. 0.01 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
61	100		
96	36.2	47.5	71.3#
98	39.8	28.8	43.2

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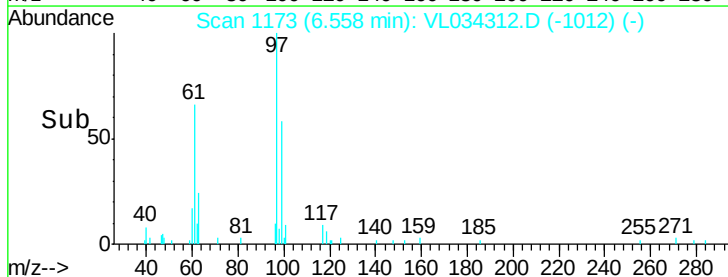
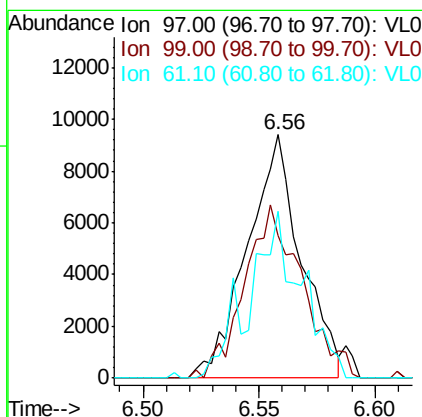
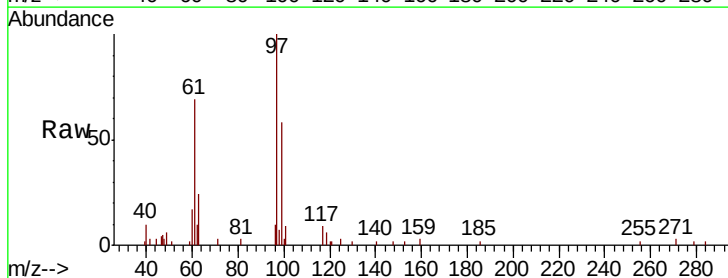
MMDadoda
 10/18/2019 3:05:07 PM

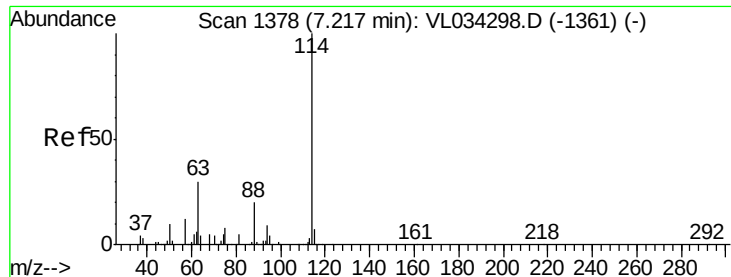


#32

1,1,1-Trichloroethane
 Concen: 0.092 ppbv
 RT: 6.56 min Scan# 1173
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Tgt Ion	Ratio	Lower	Upper
97	100		
99	75.9	52.6	78.8
61	66.9	44.5	66.7#





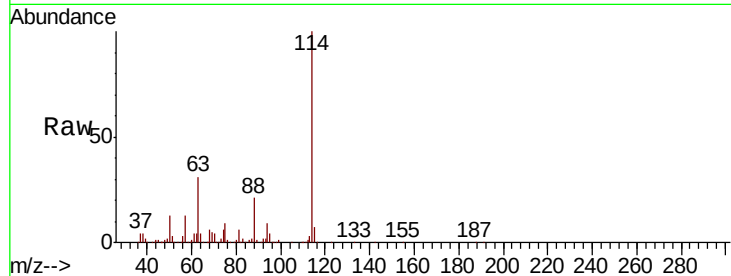
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1382
 Delta R.T. 0.01 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
114	100		
63	31.5	25.2	37.8
88	20.2	16.0	24.0

Manual Integrations
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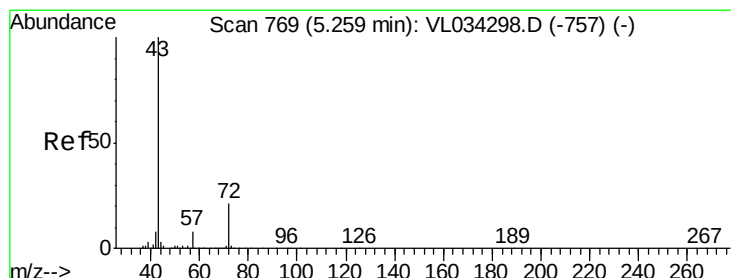
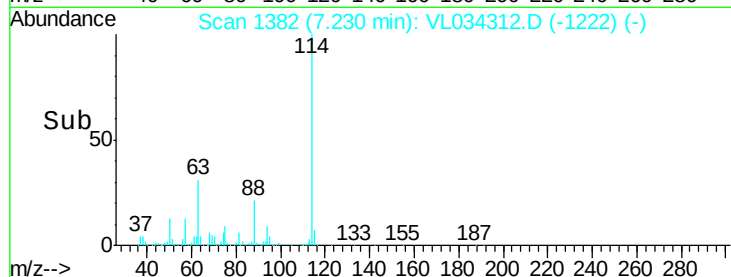
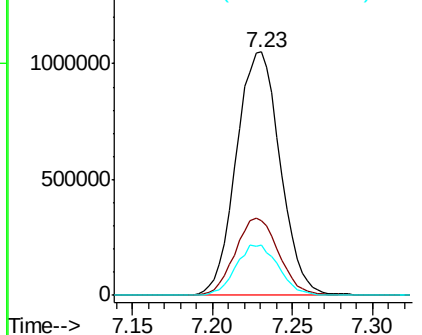
MMDadoda
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Abundance Ion 114.10 (113.80 to 114.80): V

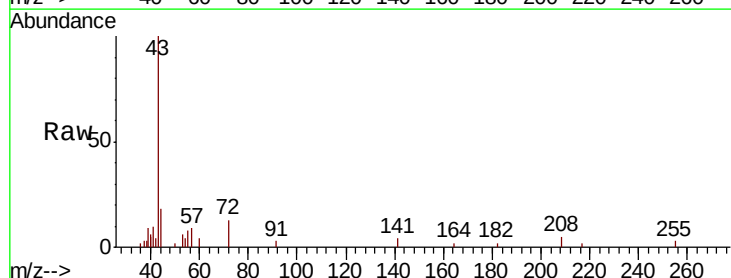
Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



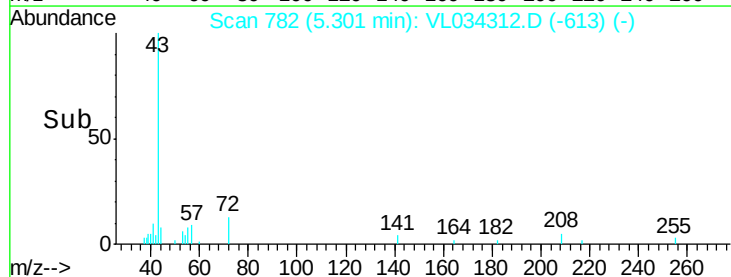
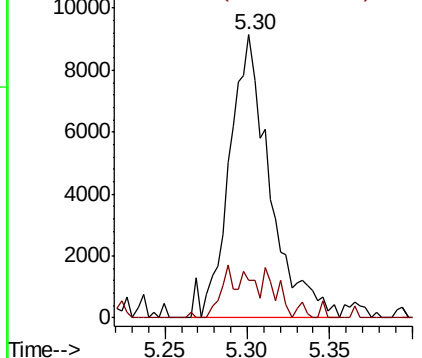
#34
 2-Butanone
 Concen: 0.098 ppbv m
 RT: 5.30 min Scan# 782
 Delta R.T. 0.04 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

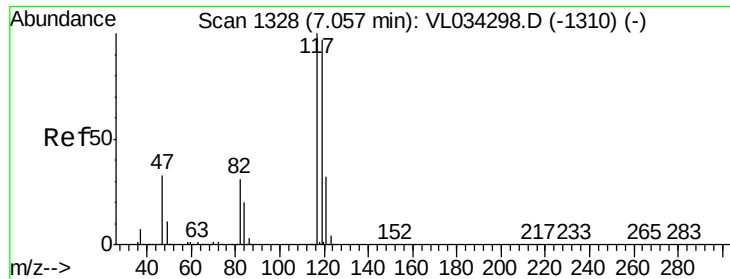
Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.3	24.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.108 ppbv m

RT: 7.08 min Scan# 1335

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

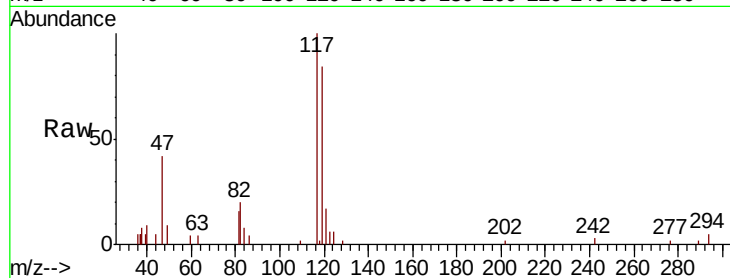
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
117	100		
119	83.8	77.3	115.9
121	16.9	25.5	38.3#

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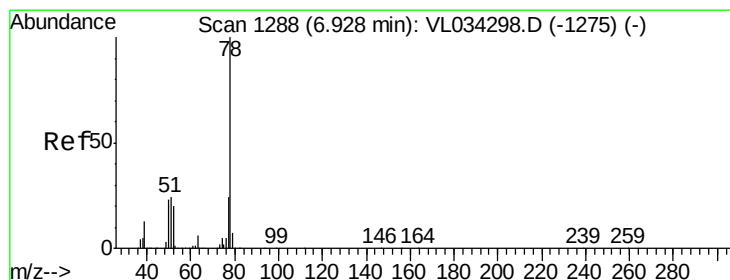
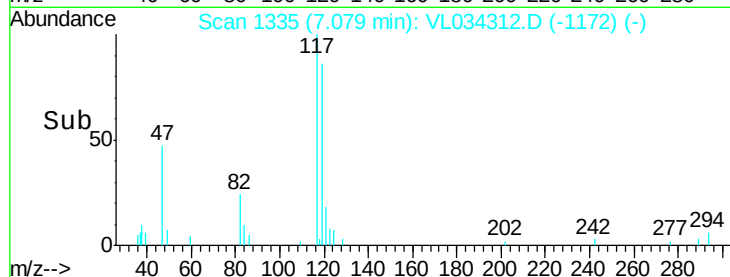
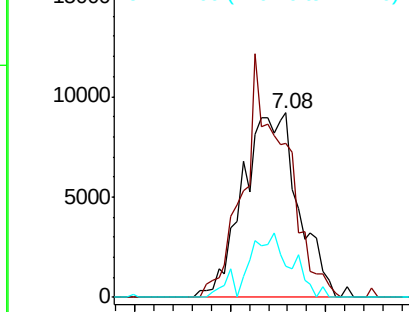


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.095 ppbv m

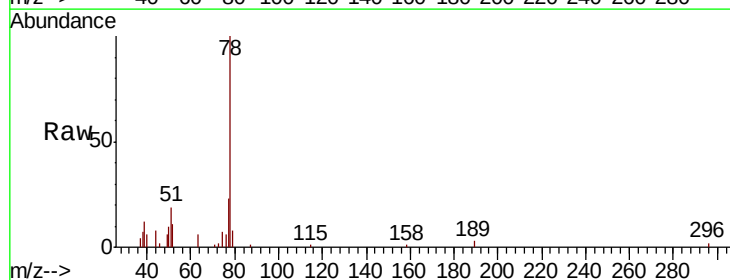
RT: 6.94 min Scan# 1293

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.0	28.4
50	10.1	18.6	27.8#

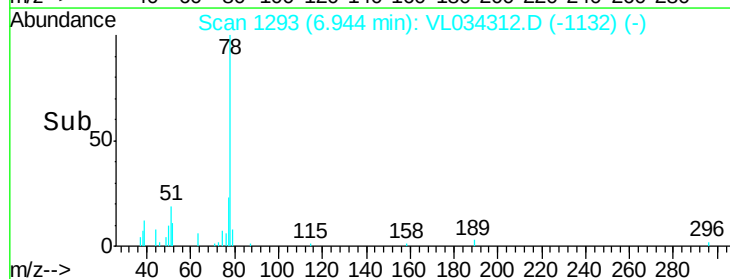
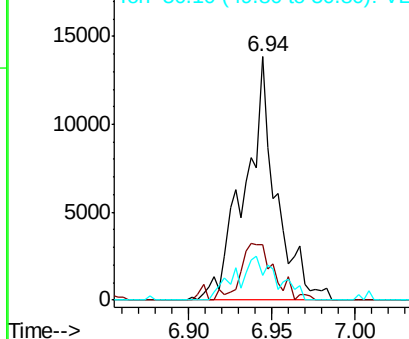


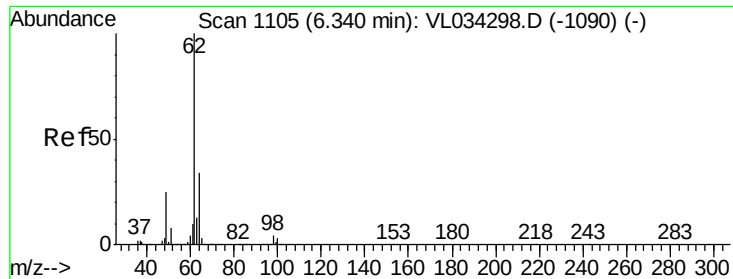
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





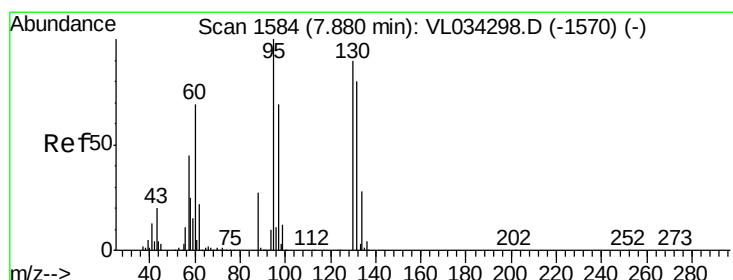
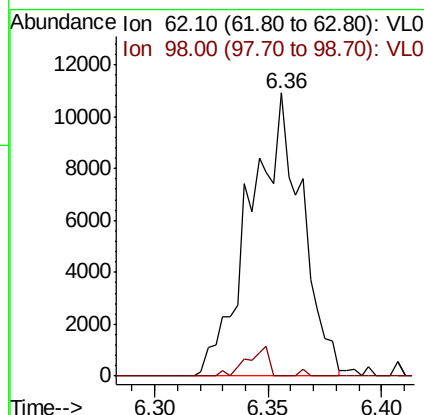
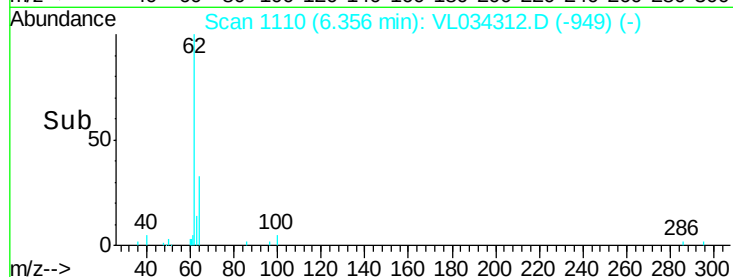
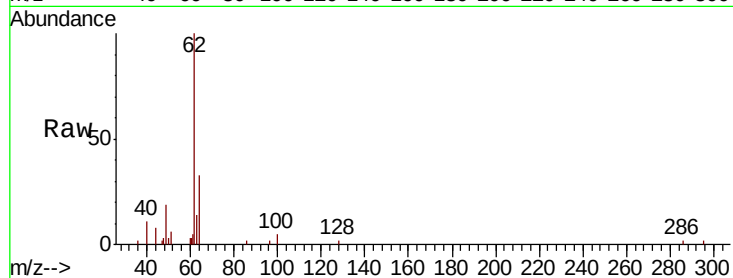
#37
 1,2-Dichloroethane
 Concen: 0.123 ppbv m
 RT: 6.36 min Scan# 1110
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.4	3.8	5.6

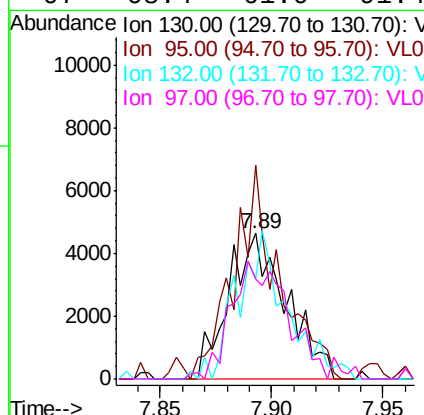
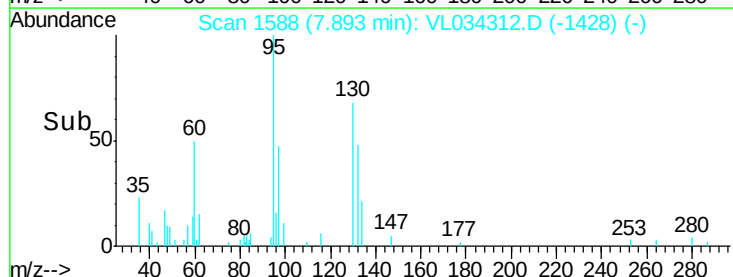
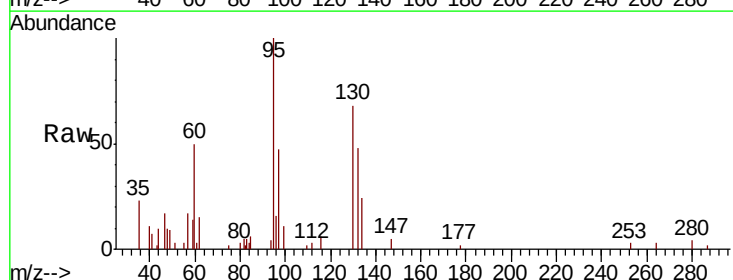
Manual Integrations
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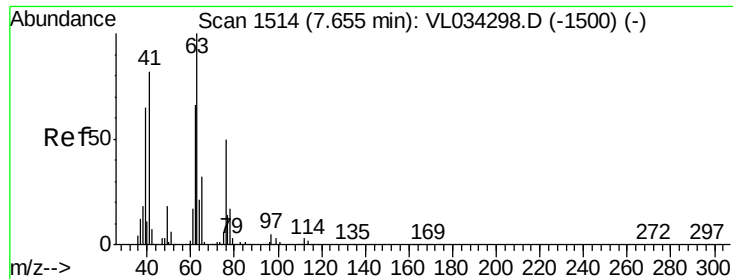
MMDadoda
 10/18/2019 3:05:07 PM



#38
 Trichloroethene
 Concen: 0.110 ppbv m
 RT: 7.89 min Scan# 1588
 Delta R.T. 0.01 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Tgt Ion	Ratio	Lower	Upper
130	100		
95	146.6	88.6	132.8#
132	69.9	71.2	106.8#
97	68.4	61.0	91.4





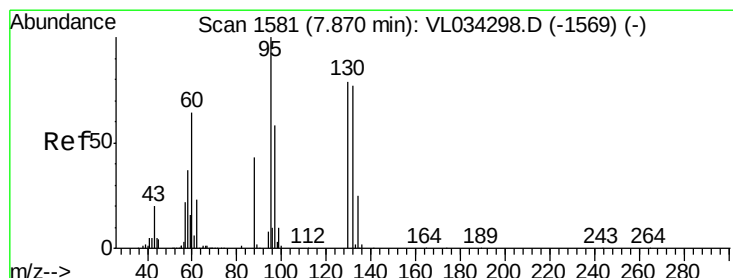
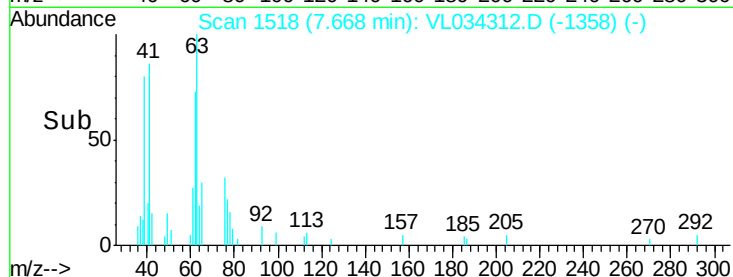
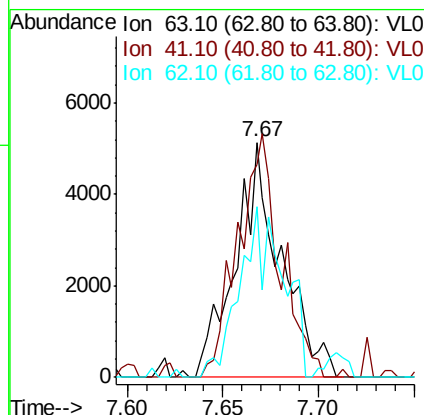
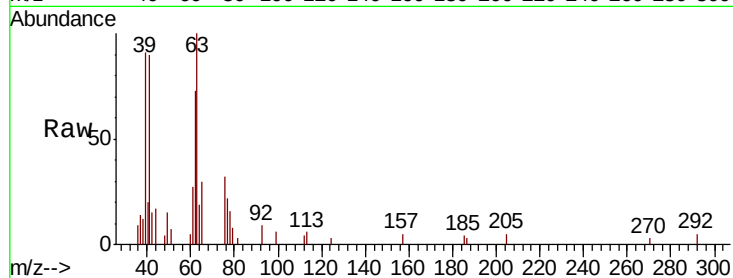
#39
 1,2-Dichloropropane
 Concen: 0.106 ppbv m
 RT: 7.67 min Scan# 1518
 Delta R.T. 0.01 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
63	100		
41	90.5	65.6	98.4
62	72.7	53.0	79.6

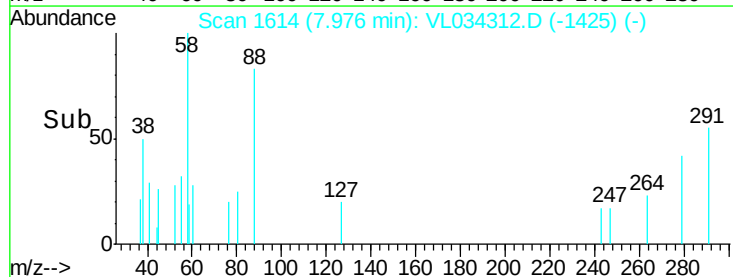
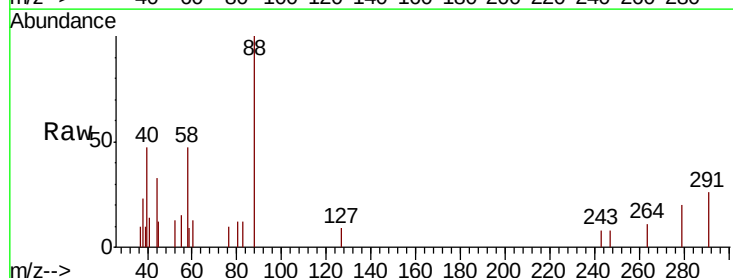
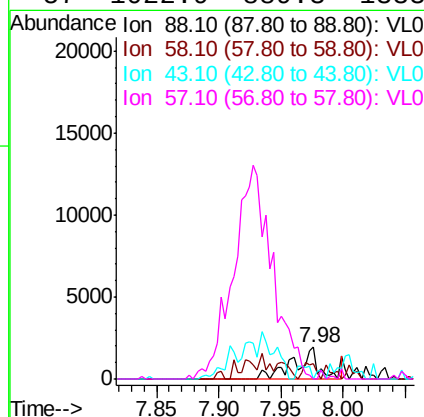
Manual Integrations
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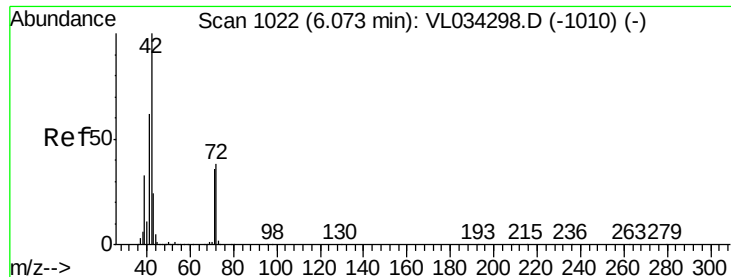
MMDadoda
 10/18/2019 3:05:07 PM



#40
 1,4-Dioxane
 Concen: 0.097 ppbv m
 RT: 7.98 min Scan# 1614
 Delta R.T. 0.11 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Tgt Ion	Ratio	Lower	Upper
88	100		
58	96.9	110.3	165.5#
43	240.1	228.1	342.1
57	1022.9	889.3	1333.9





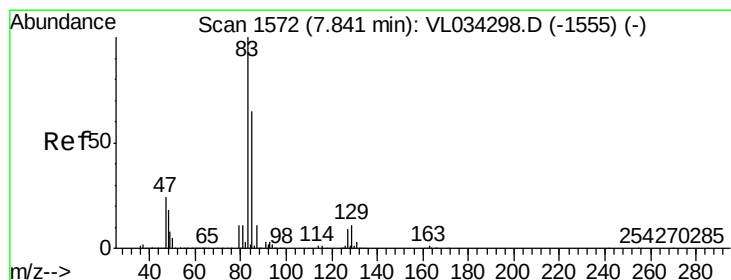
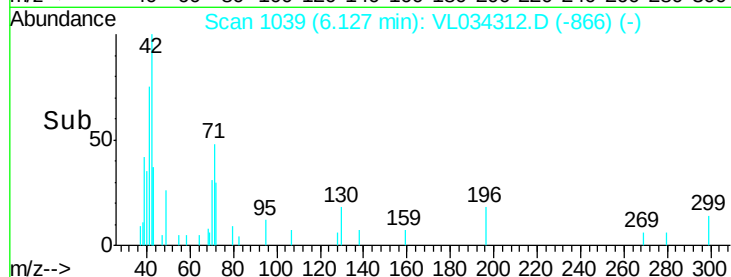
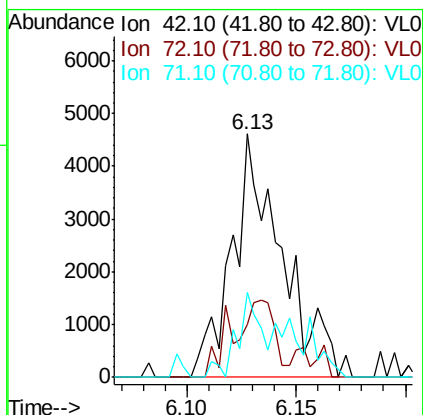
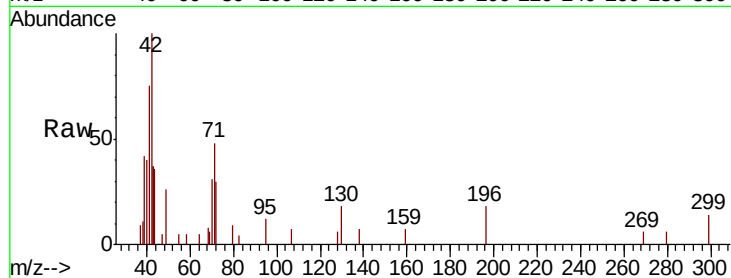
#41
Tetrahydrofuran
Concen: 0.081 ppbv m
RT: 6.13 min Scan# 1039
Delta R.T. 0.05 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	28.0	42.0#
71	1.8	27.3	40.9#

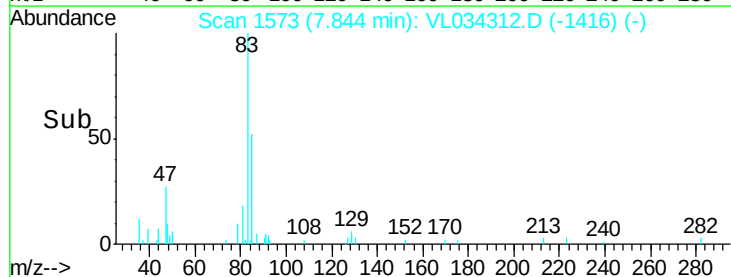
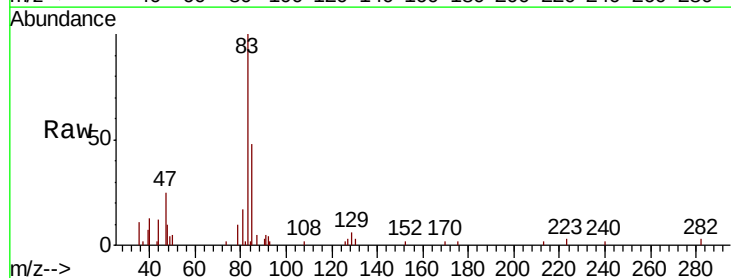
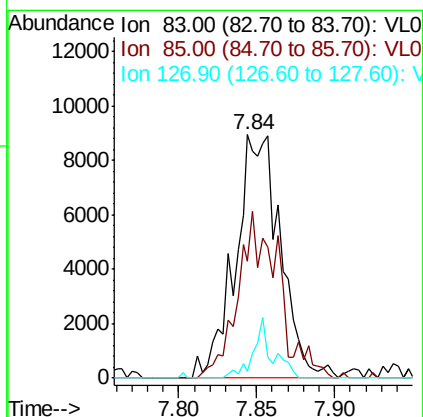
Manual Integrations
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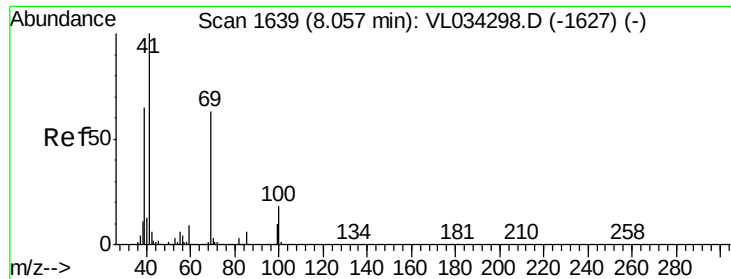
MMDadoda
10/18/2019 3:05:07 PM



#42
Bromodichloromethane
Concen: 0.104 ppbv m
RT: 7.84 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	48.2	51.8	77.6#
127	2.8	7.0	10.6#





#43

Methyl Methacrylate

Concen: 0.077 ppbv m

RT: 8.08 min Scan# 1646

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

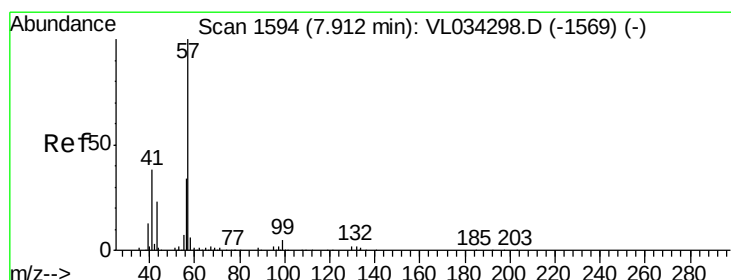
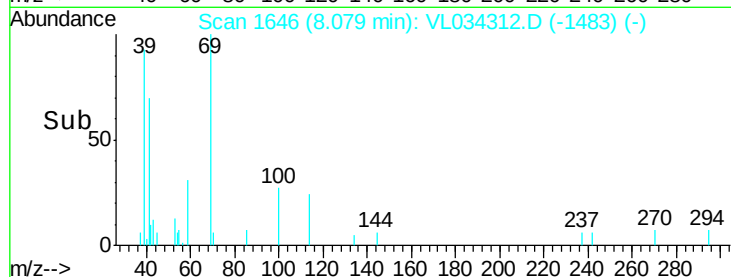
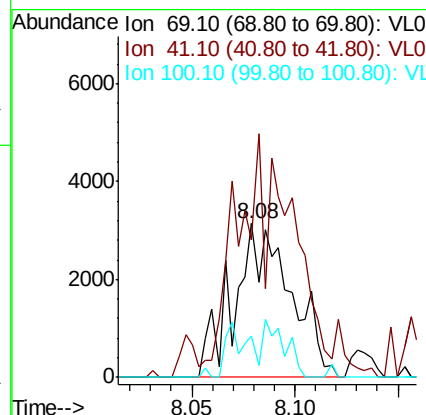
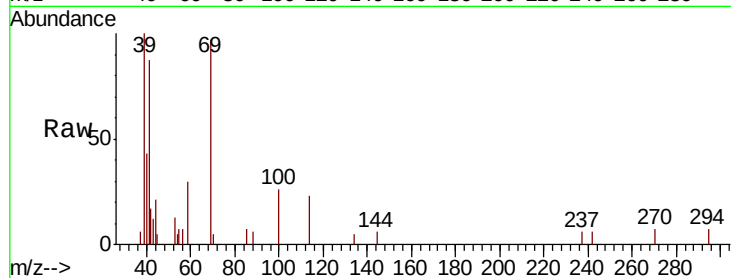
Instrument :
MSVOA_L

ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	132.1	198.1#
100	0.0	23.2	34.8#

Manual Integrations
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MMDadoda
10/18/2019 3:05:07 PM



#44

2,2,4-Trimethylpentane

Concen: 0.071 ppbv

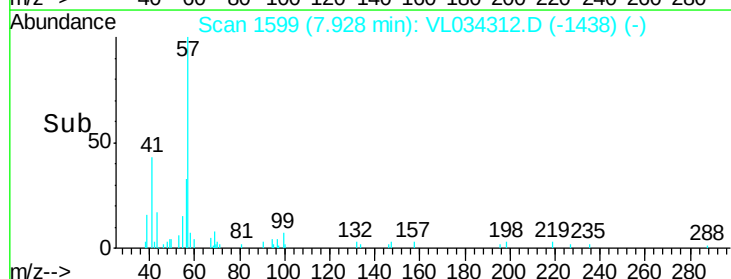
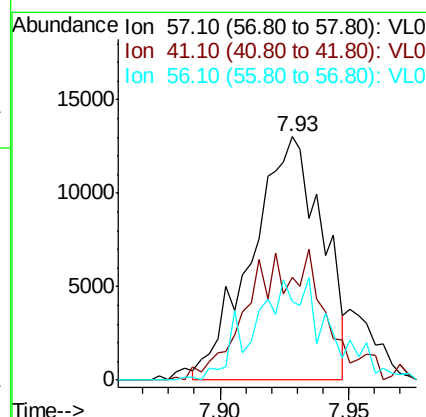
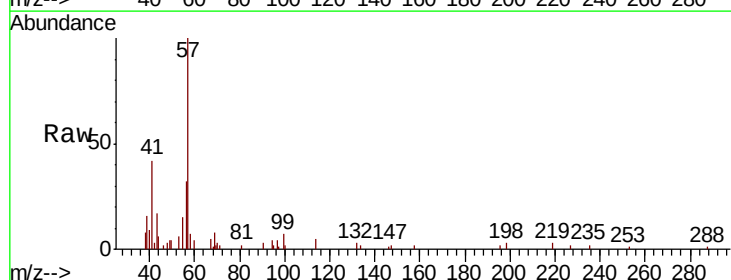
RT: 7.93 min Scan# 1599

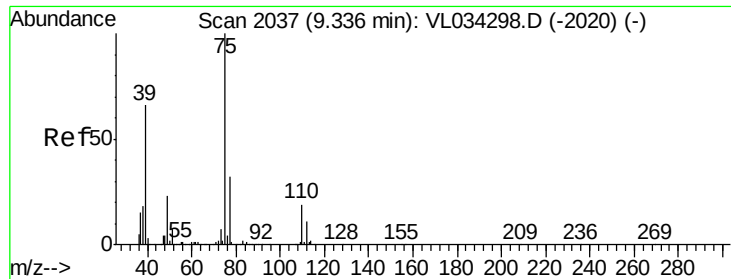
Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion	Ratio	Lower	Upper
57	100		
41	57.5	29.3	43.9#
56	44.6	25.3	37.9#





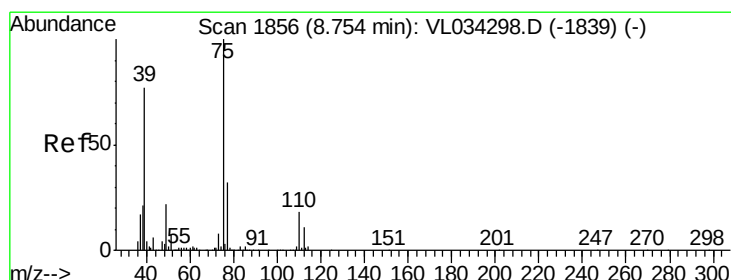
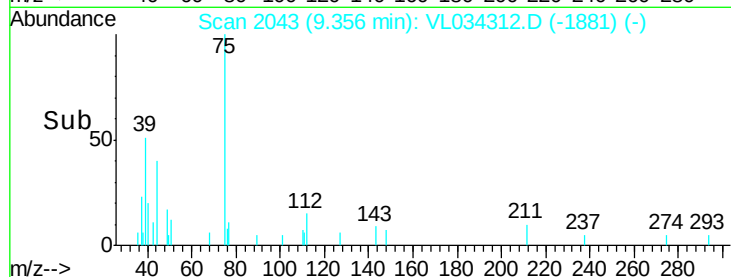
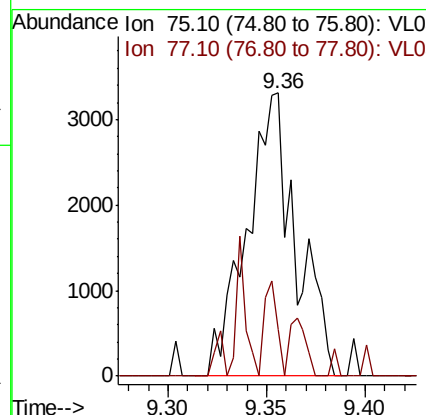
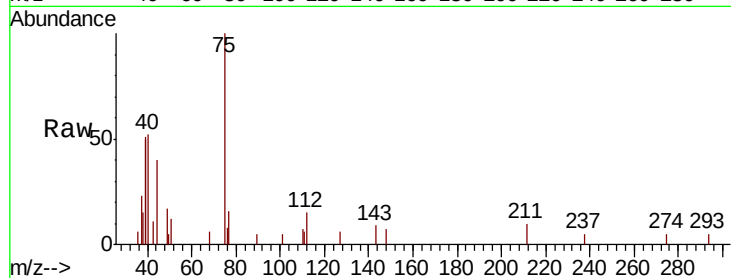
#45
 t-1,3-Dichloropropene
 Concen: 0.060 ppbv m
 RT: 9.36 min Scan# 2043
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion: 75 Resp: 5690
 Ion Ratio Lower Upper
 75 100
 77 16.3 25.6 38.4#

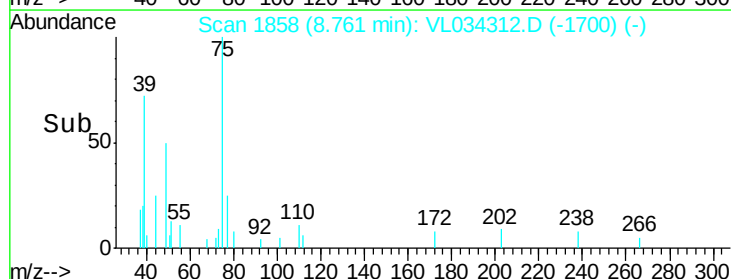
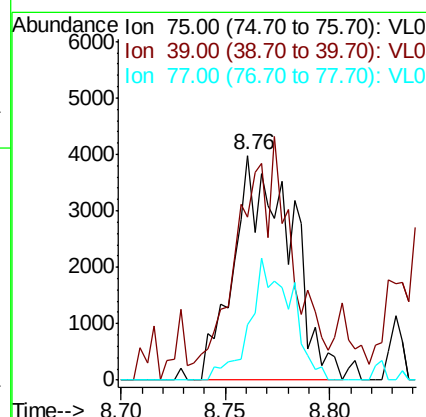
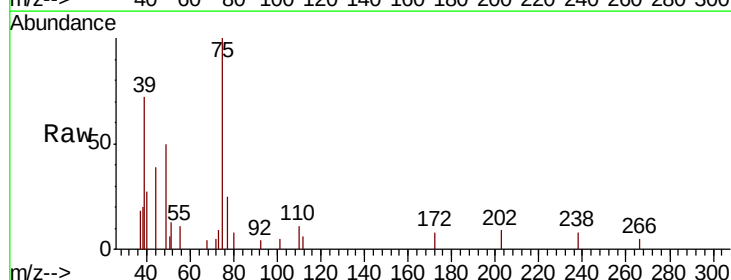
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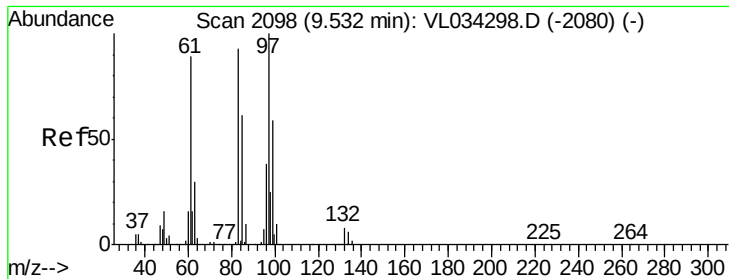
MMDadoda
 10/18/2019 3:05:07 PM



#46
 cis-1,3-Dichloropropene
 Concen: 0.070 ppbv m
 RT: 8.76 min Scan# 1858
 Delta R.T. 0.01 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Tgt Ion: 75 Resp: 7625
 Ion Ratio Lower Upper
 75 100
 39 72.3 61.2 91.8
 77 24.8 25.9 38.9#





#47

1,1,2-Trichloroethane

Concen: 0.115 ppbv m

RT: 9.55 min Scan# 2102

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

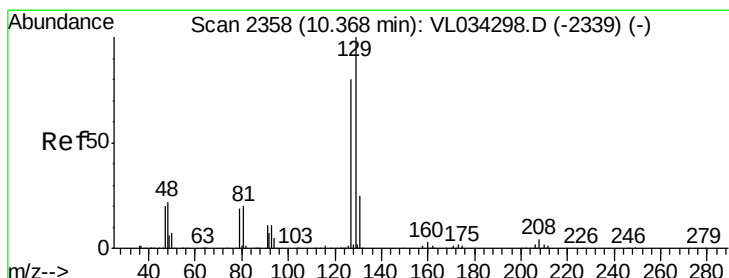
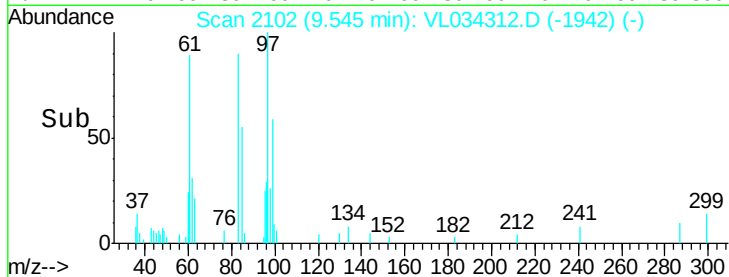
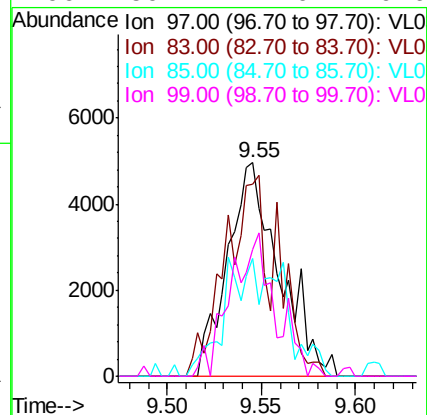
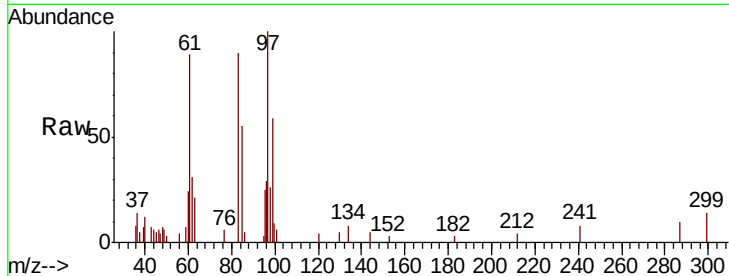
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:	97	Resp:	9485
Ion	Ratio	Lower	Upper
97	100		
83	90.1	74.2	111.2
85	55.2	48.6	73.0
99	59.2	47.0	70.6

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#48

Dibromochloromethane

Concen: 0.085 ppbv m

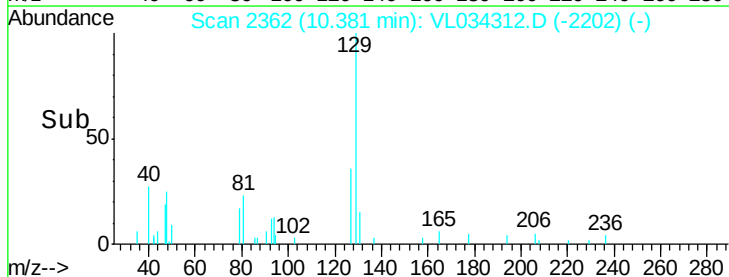
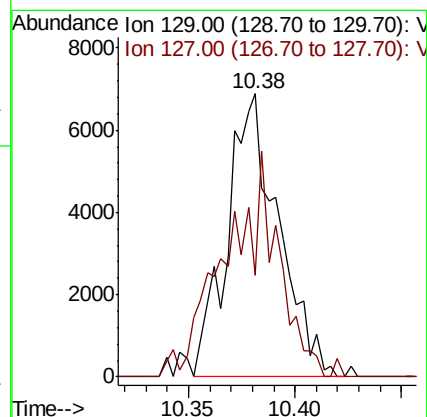
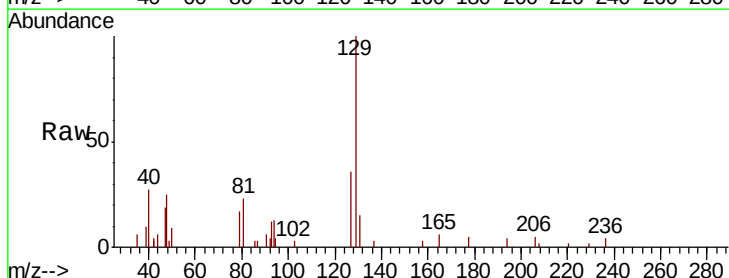
RT: 10.38 min Scan# 2362

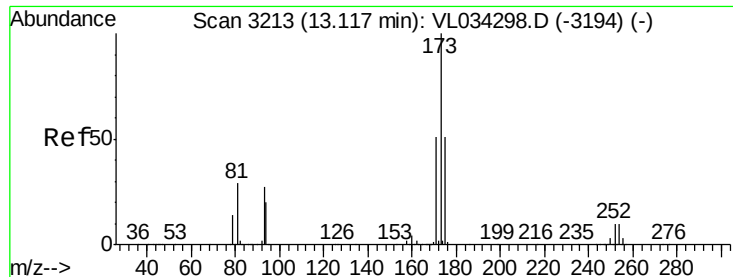
Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion:	129	Resp:	11499
Ion	Ratio	Lower	Upper
129	100		
127	81.8	39.7	119.1





#49

Bromoform

Concen: 0.078 ppbv m

RT: 13.13 min Scan# 3216

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

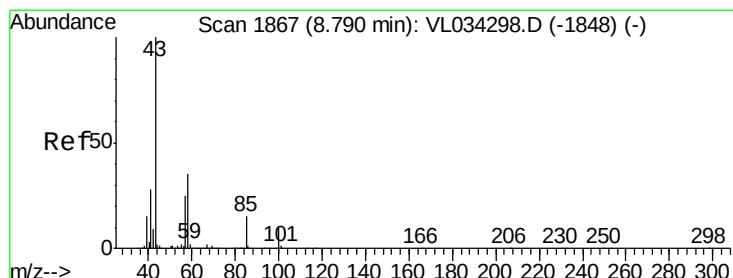
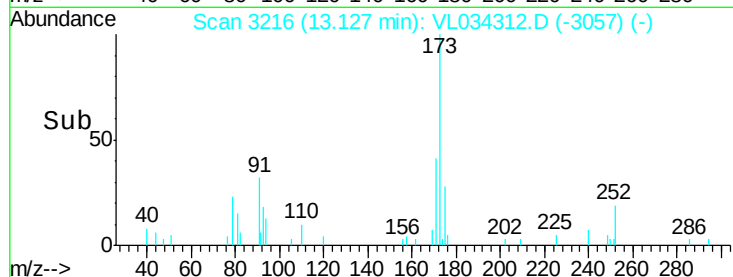
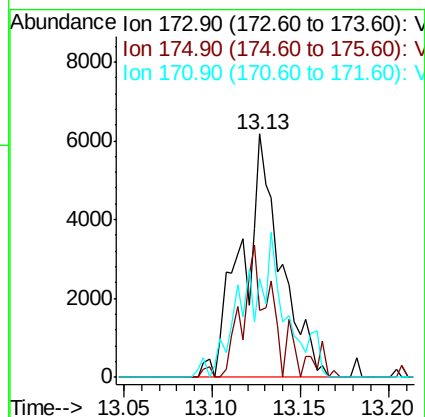
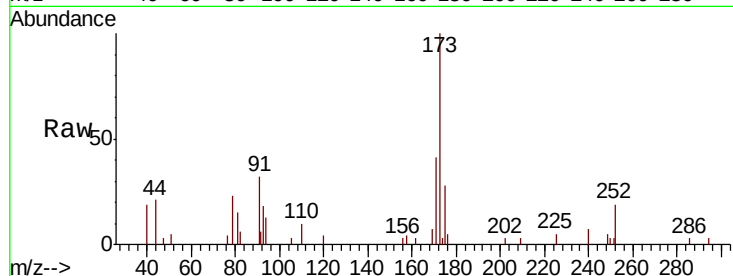
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:	173	Resp:	9313
Ion Ratio	Lower	Upper	
173	100		
175	0.0	39.8	59.6#
171	62.7	41.8	62.6#

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#50

4-Methyl-2-Pentanone

Concen: 0.079 ppbv m

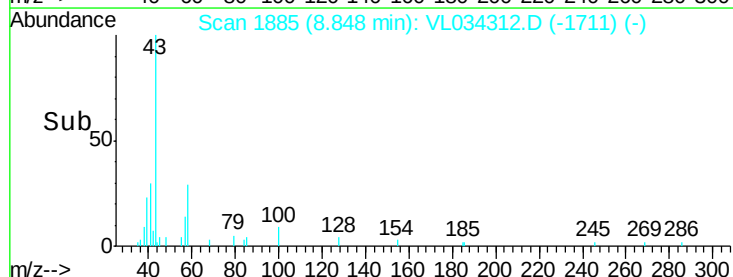
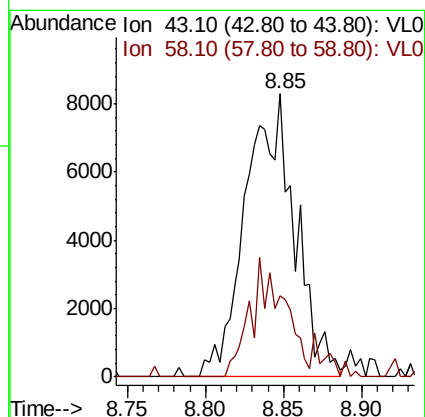
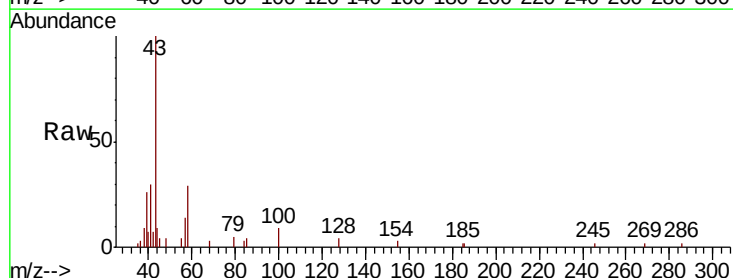
RT: 8.85 min Scan# 1885

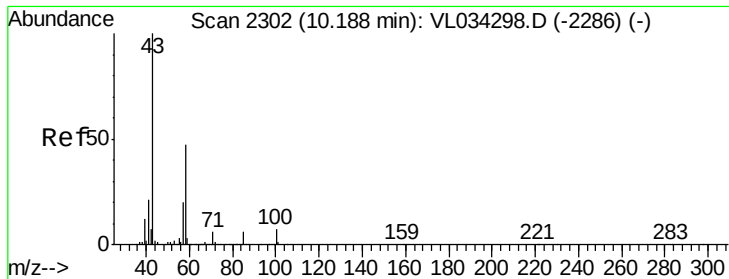
Delta R.T. 0.06 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion:	43	Resp:	18160
Ion Ratio	Lower	Upper	
43	100		
58	0.0	27.6	41.4#





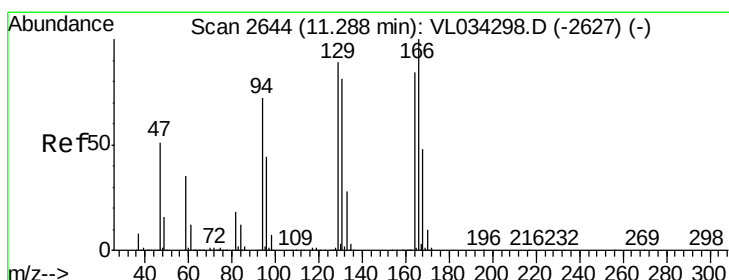
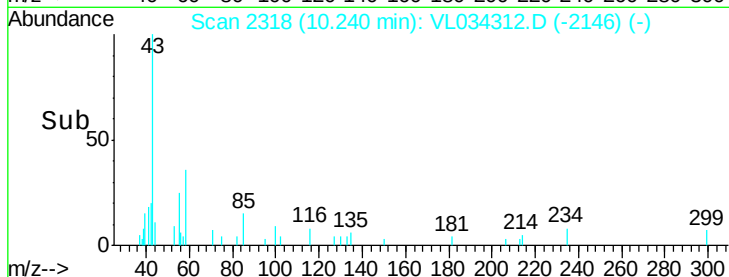
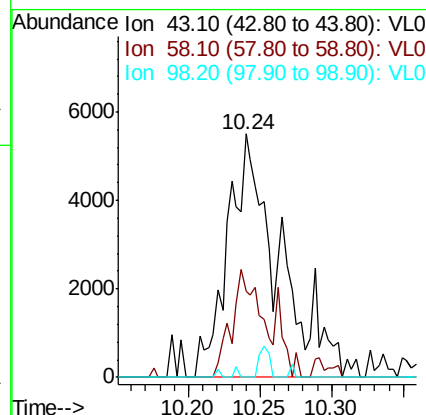
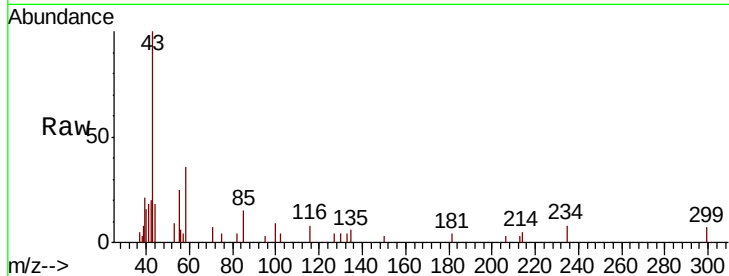
#51
2-Hexanone
Concen: 0.072 ppbv m
RT: 10.24 min Scan# 2318
Delta R.T. 0.05 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	37.0	55.6#
98	0.0	0.2	0.2#

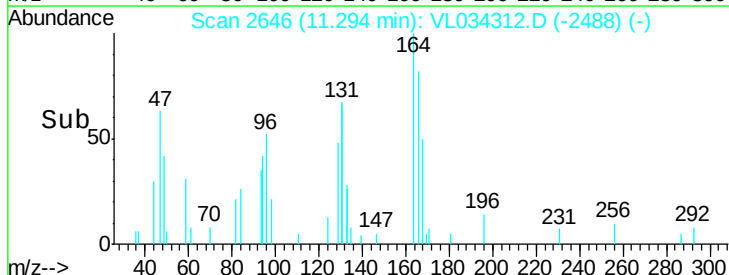
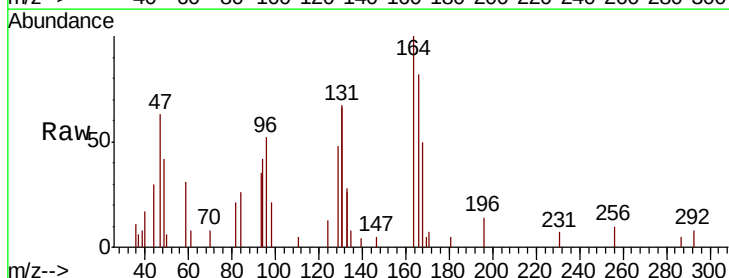
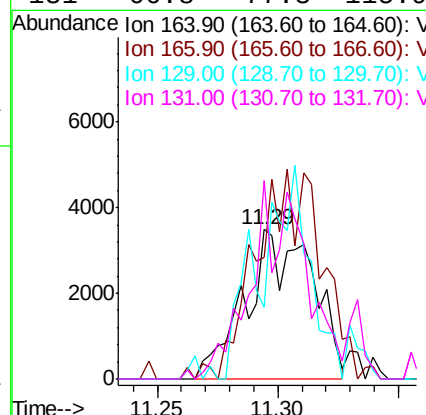
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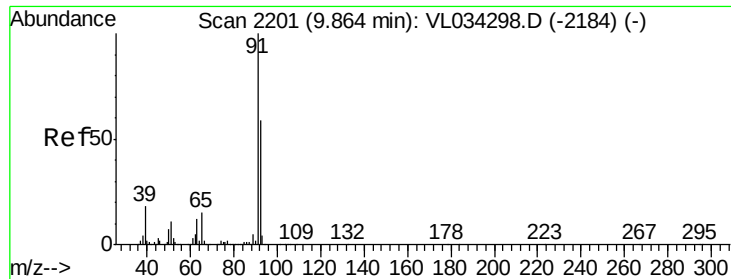
MMDadoda
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#52
Tetrachloroethene
Concen: 0.091 ppbv m
RT: 11.29 min Scan# 2646
Delta R.T. 0.01 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Tgt Ion	Ratio	Lower	Upper
164	100		
166	81.9	95.3	142.9#
129	48.3	84.5	126.7#
131	66.8	77.3	115.9#





#53

Toluene

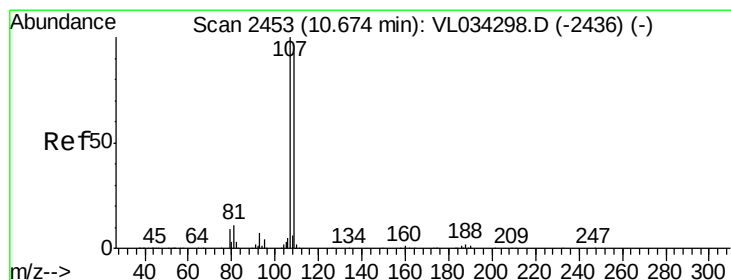
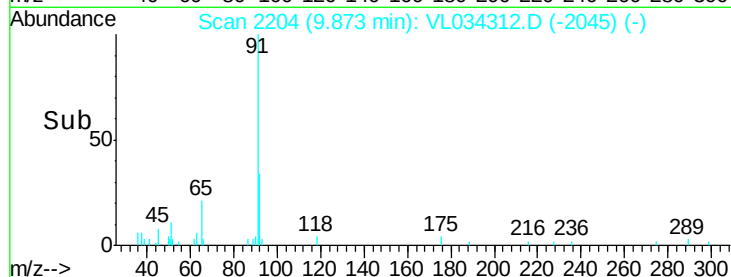
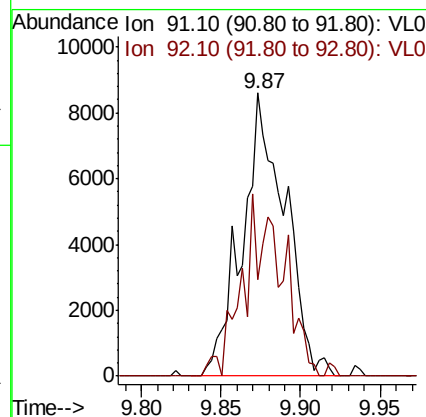
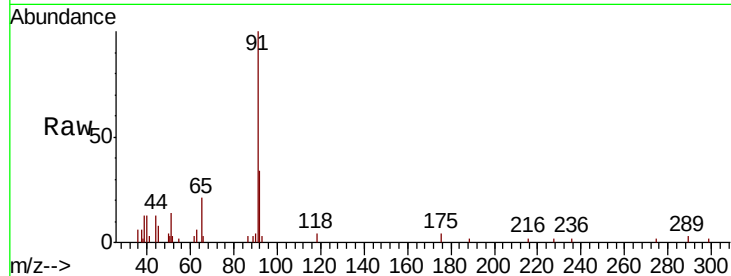
Concen: 0.077 ppbv m
RT: 9.87 min Scan# 2204
Delta R.T. 0.01 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	60.1	48.4	72.6

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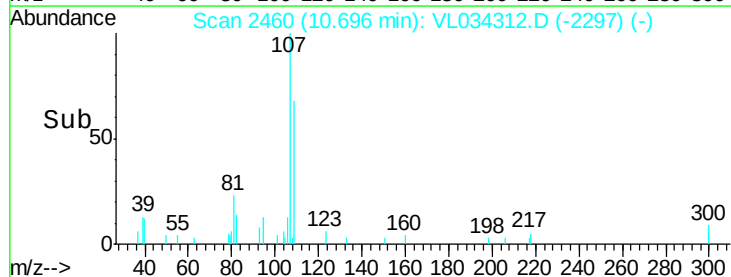
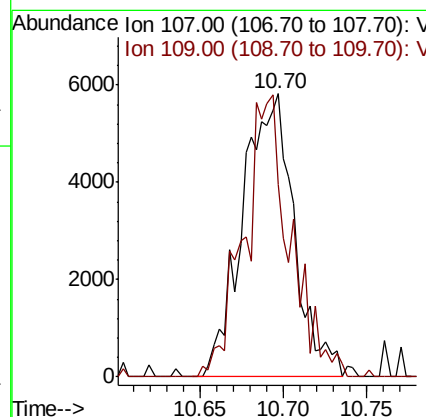
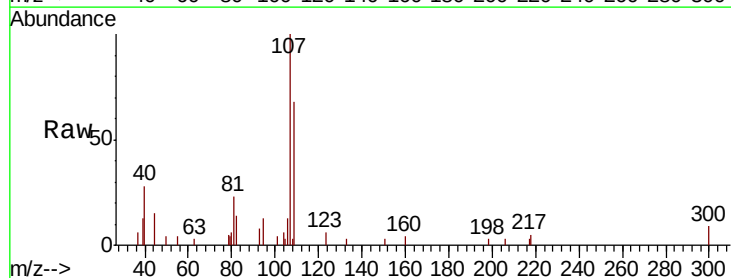


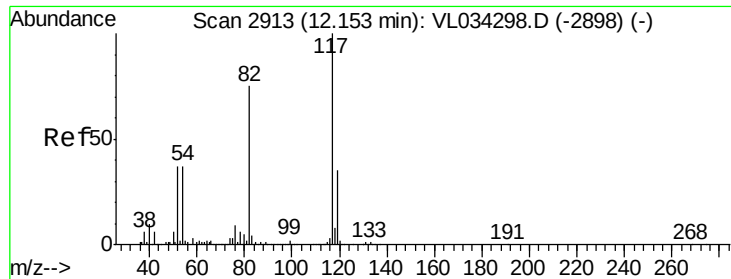
#54

1,2-Dibromoethane

Concen: 0.103 ppbv m
RT: 10.70 min Scan# 2460
Delta R.T. 0.02 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Tgt Ion	Ratio	Lower	Upper
107	100		
109	67.9	74.6	112.0#





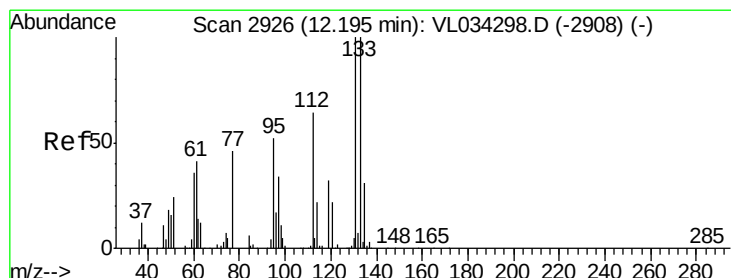
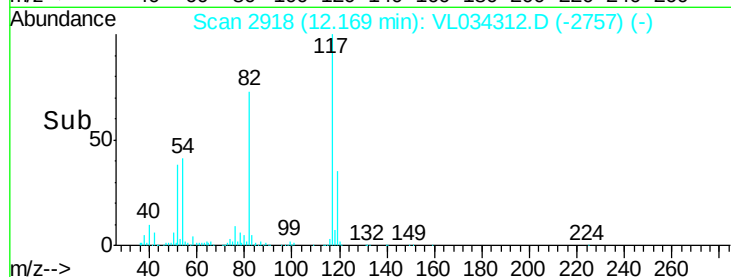
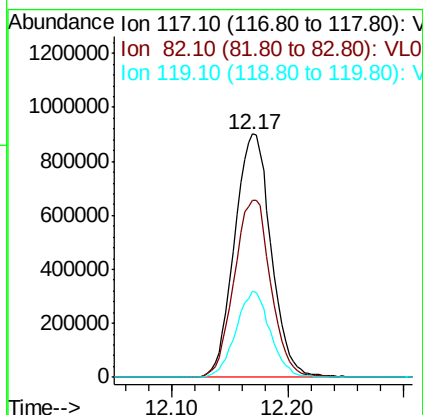
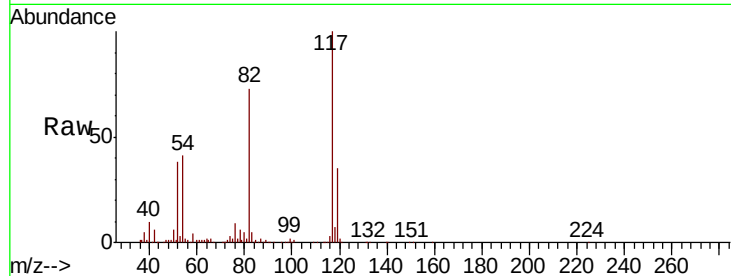
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2918
Delta R.T. 0.02 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	73.1	55.5	83.3
119	33.4	26.5	39.7

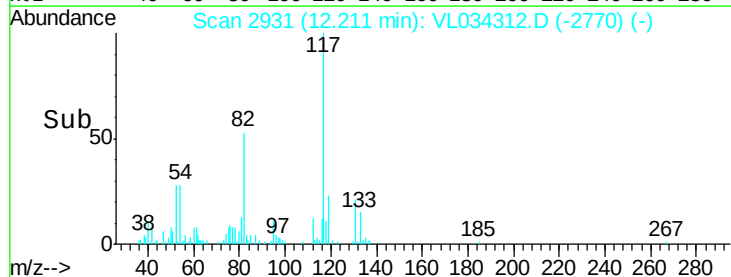
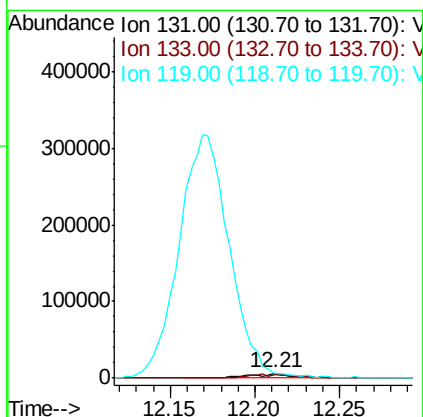
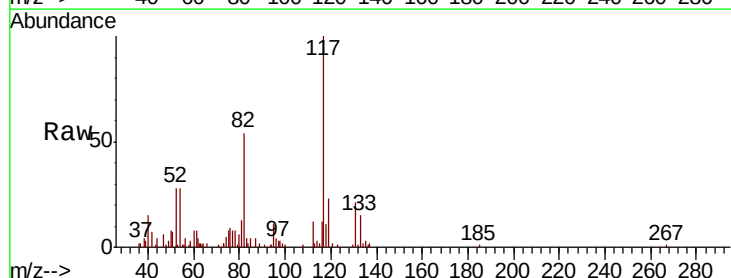
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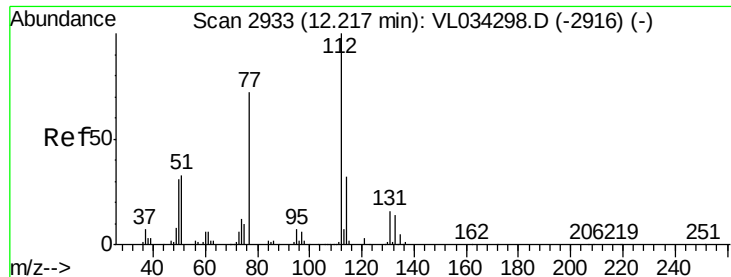
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.112 ppbv m
RT: 12.21 min Scan# 2931
Delta R.T. 0.02 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.4	77.1	115.7
119	0.0	49.0	73.4#





#57

Chlorobenzene

Concen: 0.122 ppbv m

RT: 12.23 min Scan# 2936

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

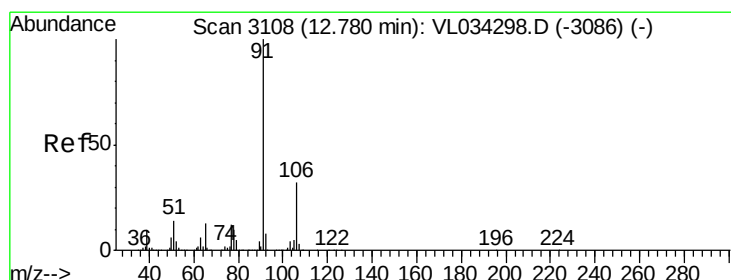
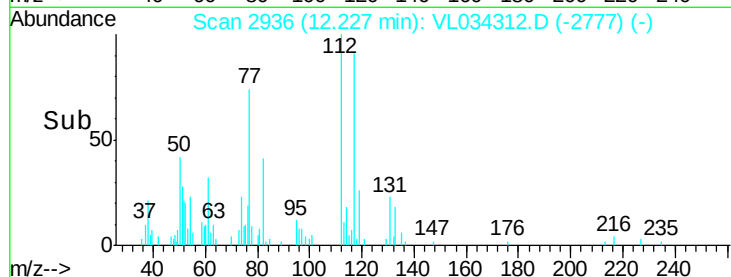
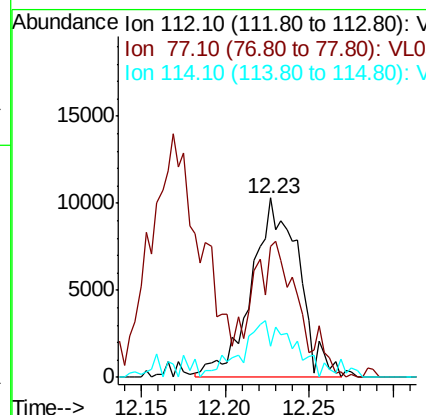
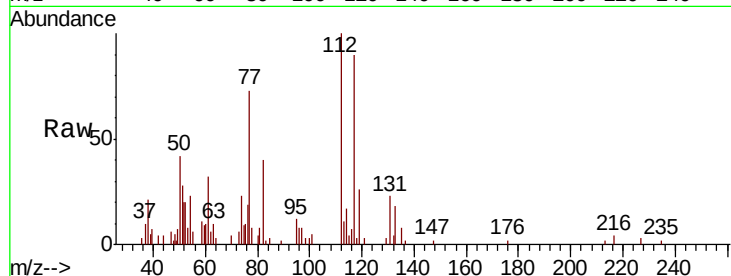
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:	112	Resp:	20023
Ion Ratio	Lower	Upper	
112	100		
77	73.0	58.6	88.0
114	17.3	28.6	35.0#

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#58

Ethyl Benzene

Concen: 0.081 ppbv m

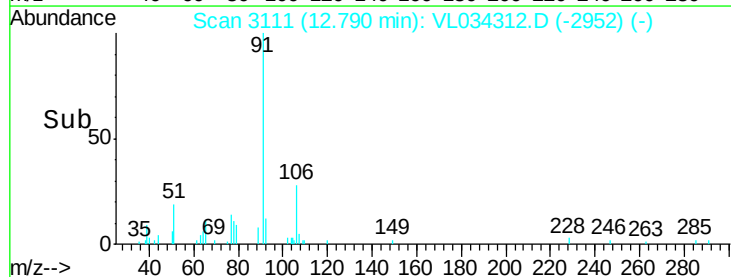
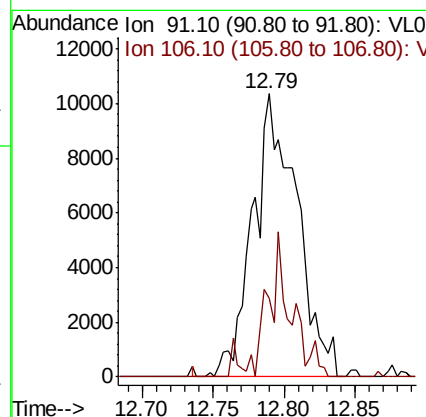
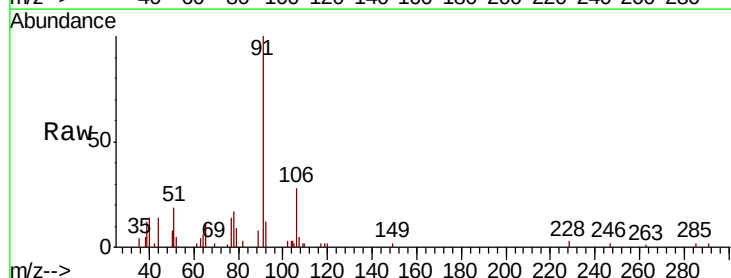
RT: 12.79 min Scan# 3111

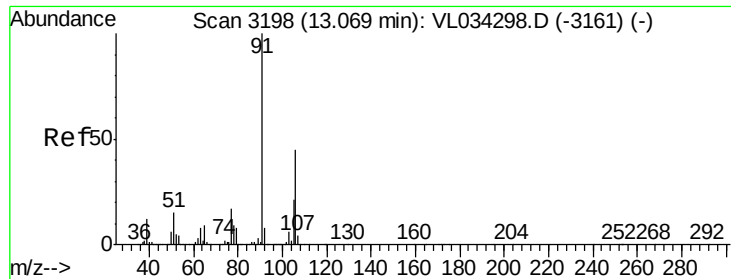
Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion:	91	Resp:	22379
Ion Ratio	Lower	Upper	
91	100		
106	27.9	25.3	37.9





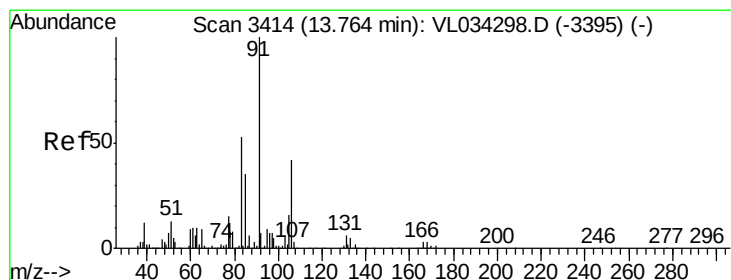
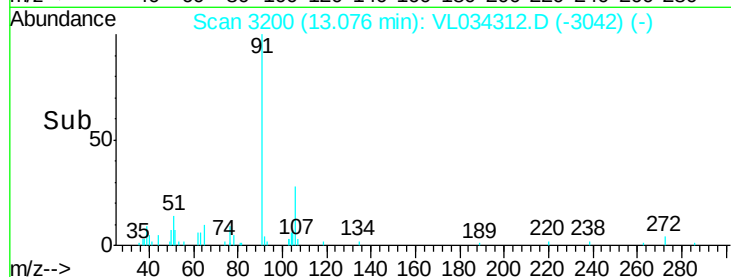
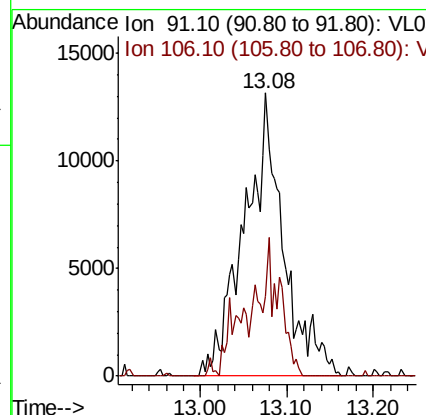
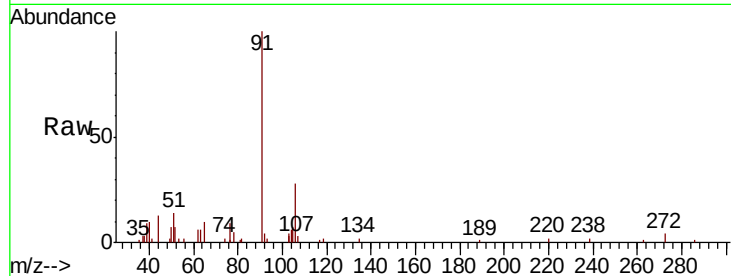
#59
m/p-Xylene
Concen: 0.172 ppbv m
RT: 13.08 min Scan# 3200
Delta R.T. 0.01 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion: 91 Resp: 41085
Ion Ratio Lower Upper
91 100
106 37.9 35.4 53.2

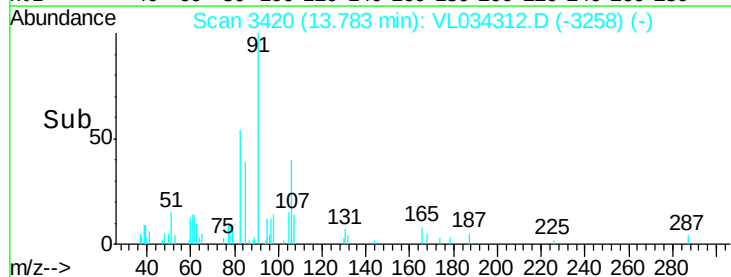
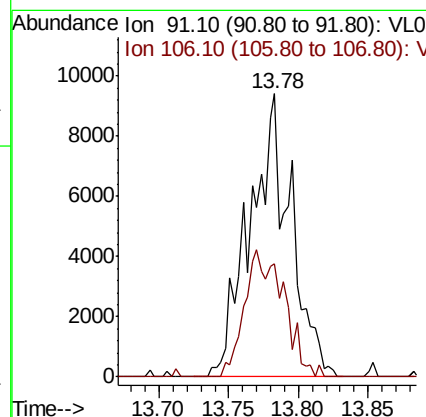
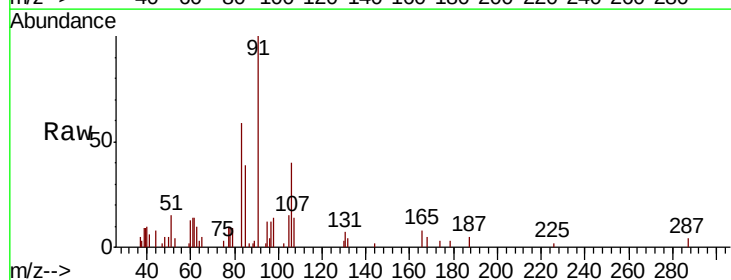
Manual Integrations
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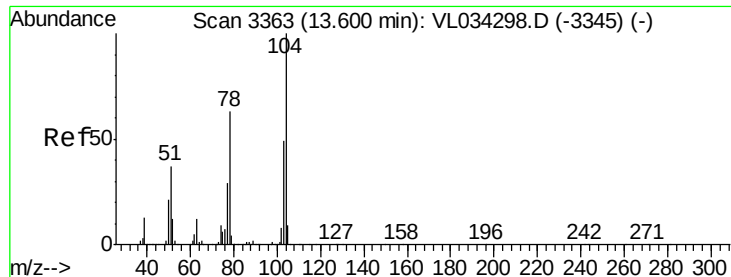
MMDadoda
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#60
o-Xylene
Concen: 0.080 ppbv m
RT: 13.78 min Scan# 3420
Delta R.T. 0.02 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Tgt Ion: 91 Resp: 19073
Ion Ratio Lower Upper
91 100
106 0.0 21.6 64.6#





#61

Stvrene

Concen: 0.061 ppbv m

RT: 13.62 min Scan# 3369

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

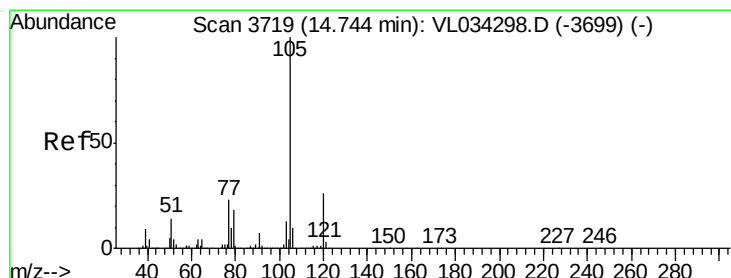
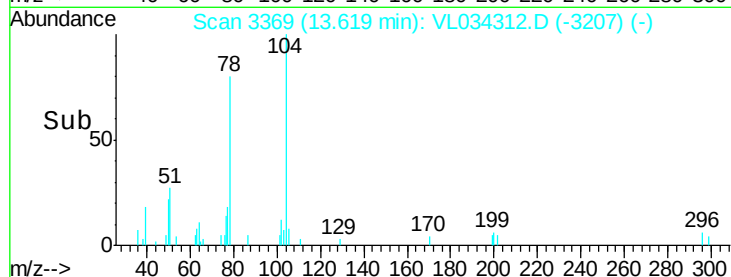
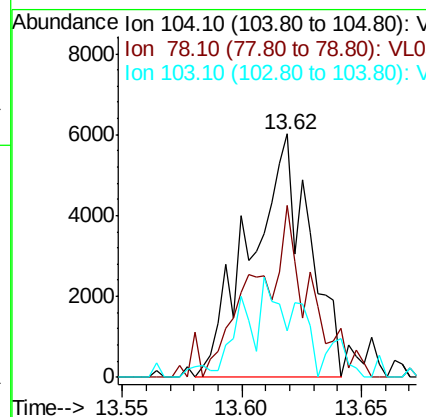
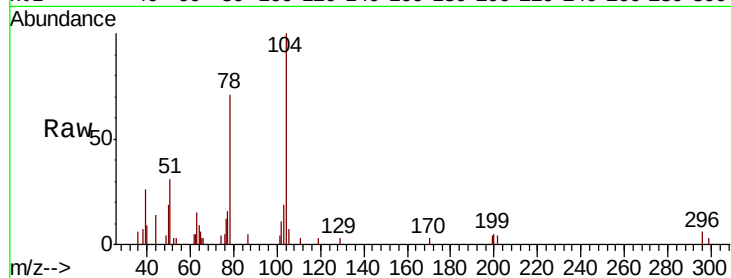
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:	104	Resp:	10242
Ion	Ratio	Lower	Upper
104	100		
78	68.7	47.8	71.8
103	43.8	39.0	58.6

Manual Integrations
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#62

Isopropylbenzene

Concen: 0.089 ppbv m

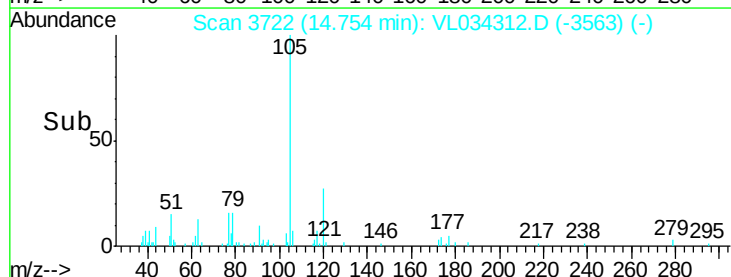
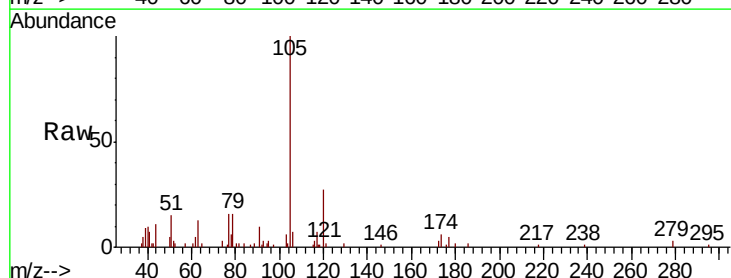
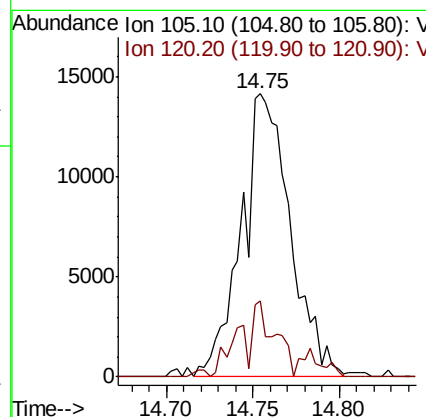
RT: 14.75 min Scan# 3722

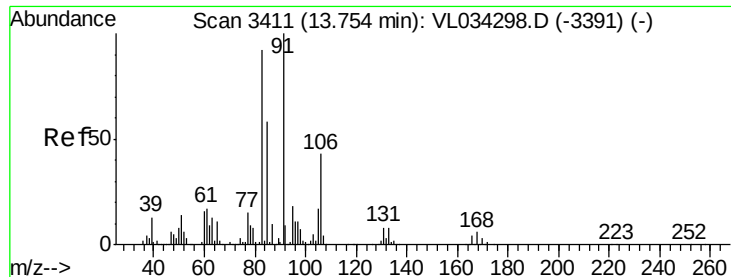
Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion:	105	Resp:	27846
Ion	Ratio	Lower	Upper
105	100		
120	23.5	20.8	31.2





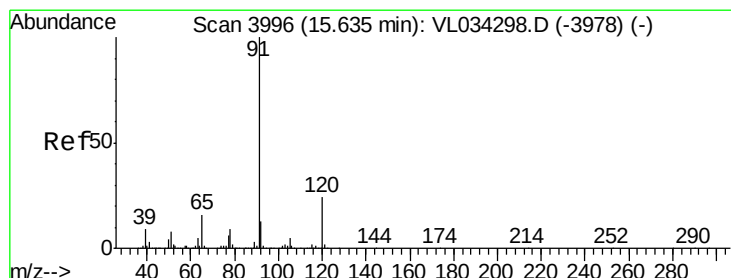
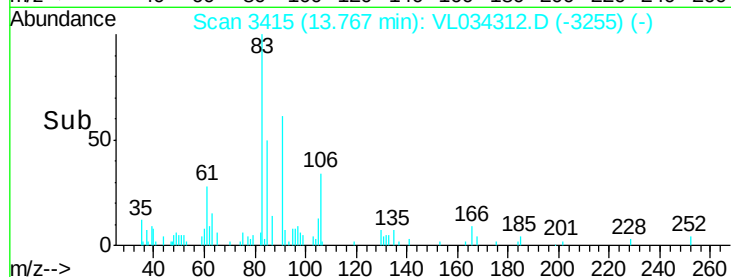
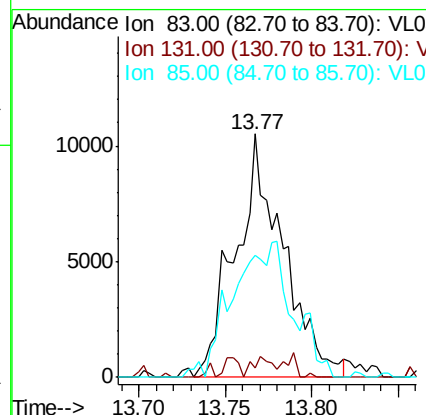
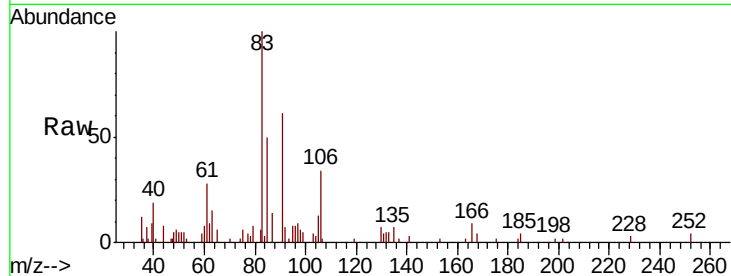
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.106 ppbv m
 RT: 13.77 min Scan# 3415
 Delta R.T. 0.01 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.8	14.4
85	70.0	32.5	97.4

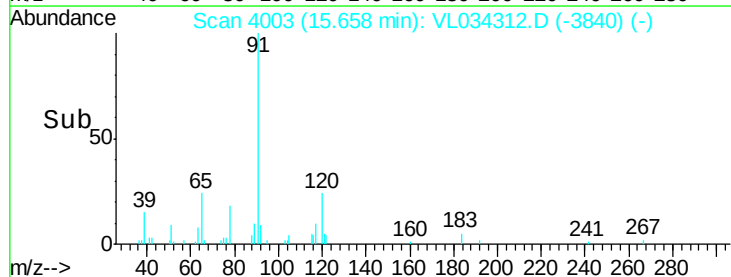
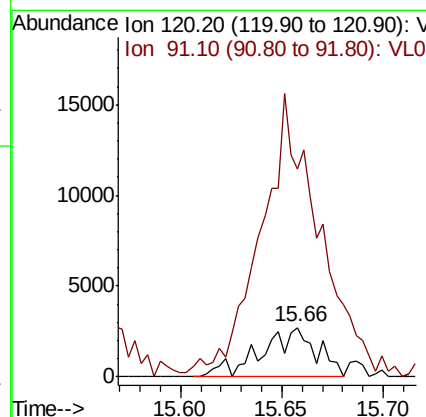
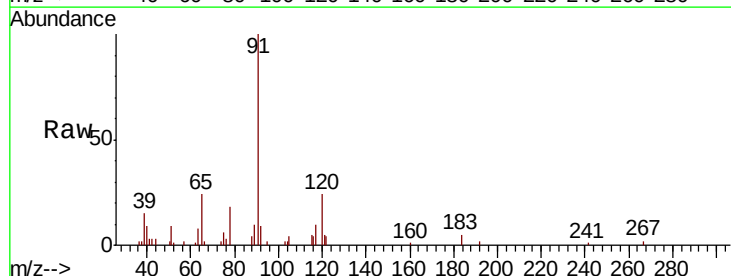
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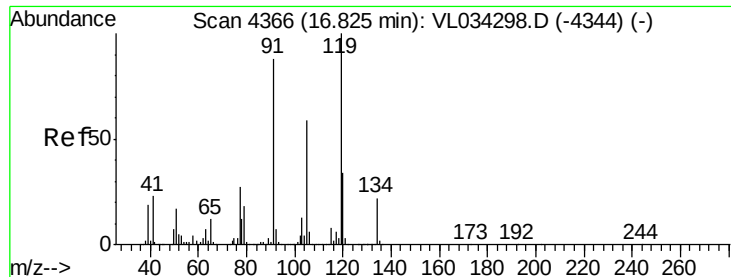
MMDadoda
 10/18/2019 3:05:07 PM



#64
 n-propylbenzene
 Concen: 0.064 ppbv m
 RT: 15.66 min Scan# 4003
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Tgt Ion	Ratio	Lower	Upper
120	100		
91	0.0	374.9	562.3#





#65

tert-Butylbenzene

Concen: 0.066 ppbv m

RT: 16.84 min Scan# 4372

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

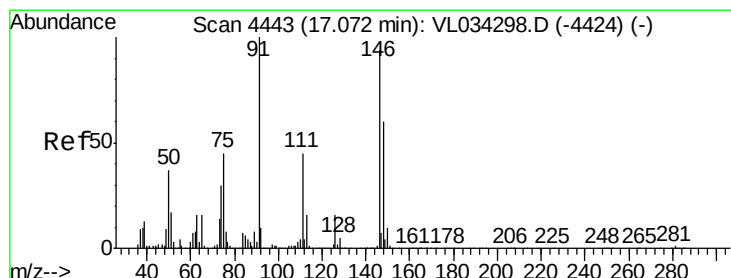
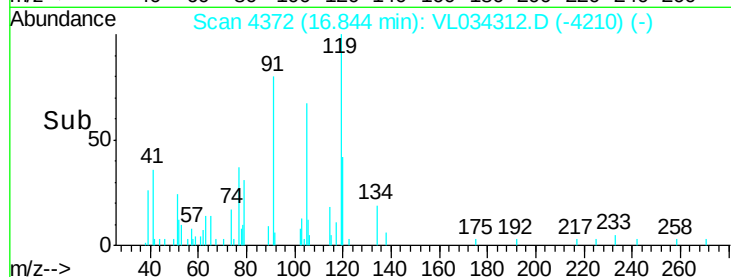
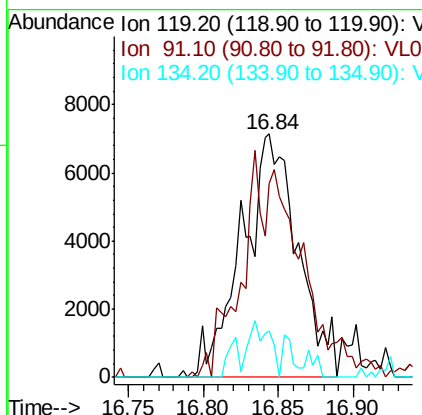
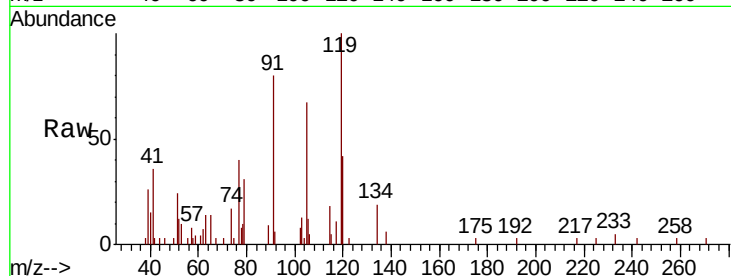
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:	119	Resp:	18438
Ion Ratio	Lower	Upper	
119	100		
91	0.0	71.4	107.0#
134	0.0	15.9	23.9#

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#66

Benzyl Chloride

Concen: 0.081 ppbv m

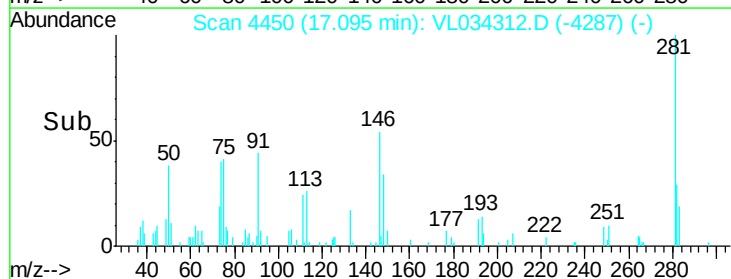
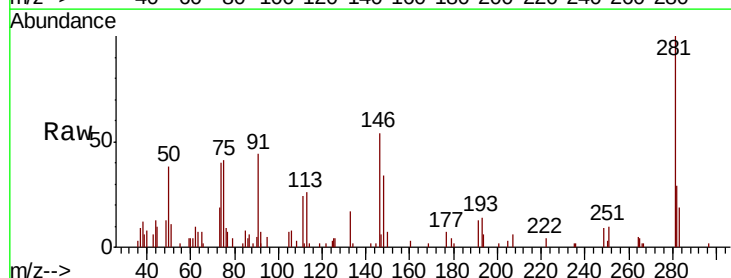
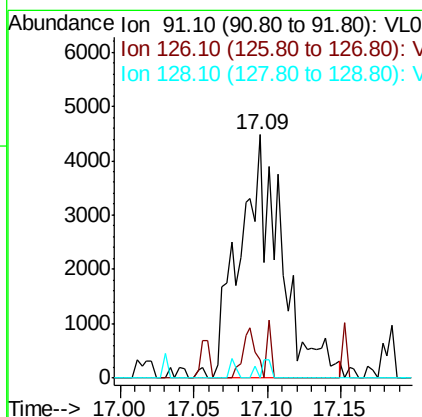
RT: 17.09 min Scan# 4450

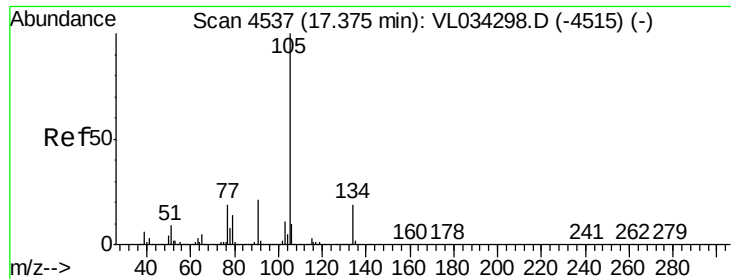
Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion:	91	Resp:	8873
Ion Ratio	Lower	Upper	
91	100		
126	0.0	12.9	19.3#
128	0.0	4.3	6.5#





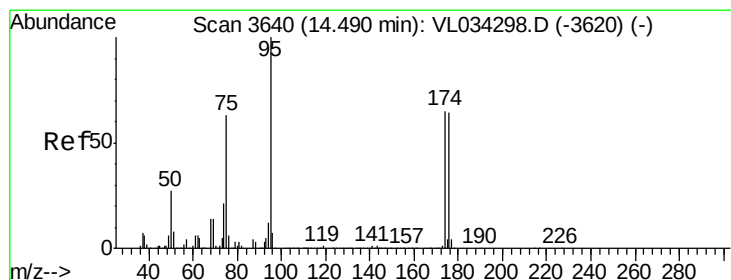
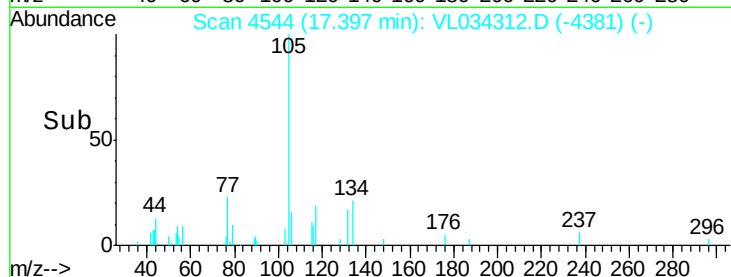
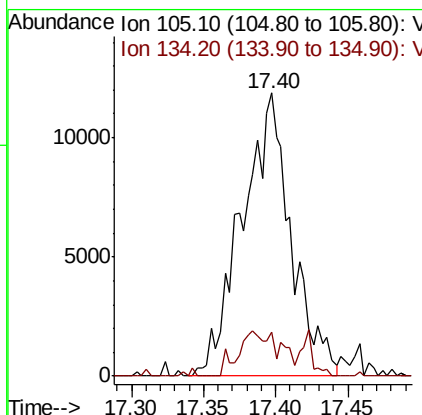
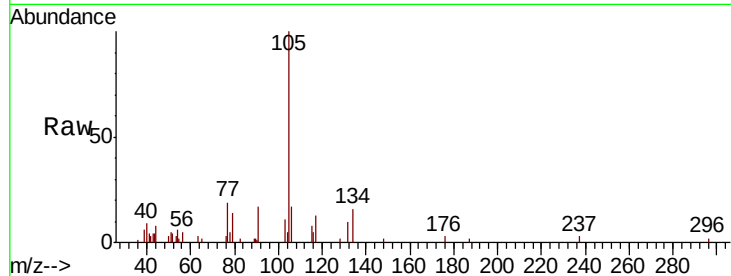
#67
 sec-Butylbenzene
 Concen: 0.072 ppbv m
 RT: 17.40 min Scan# 4544
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion: 105 Resp: 28057
 Ion Ratio Lower Upper
 105 100
 134 0.0 15.4 23.0#

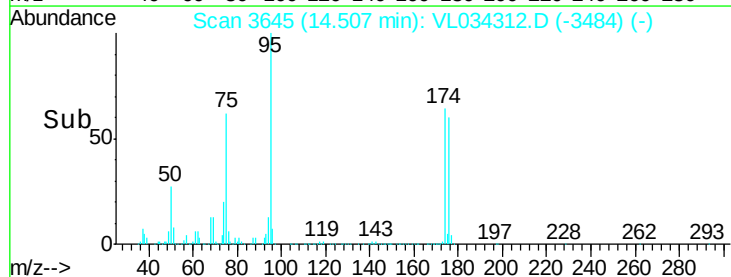
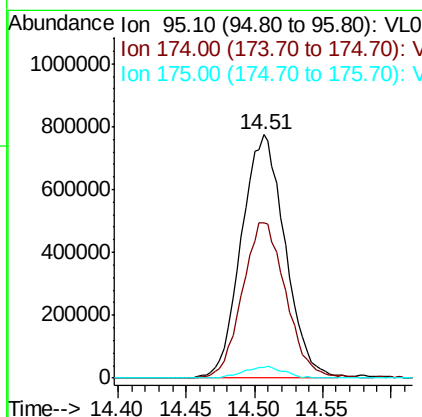
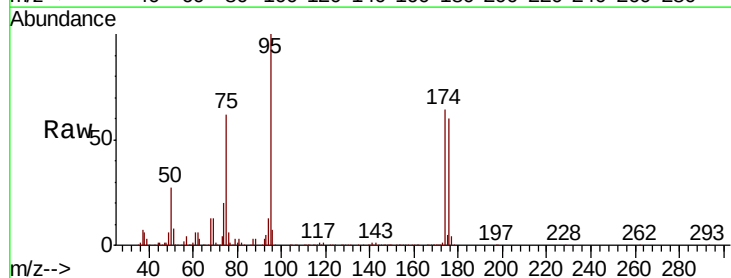
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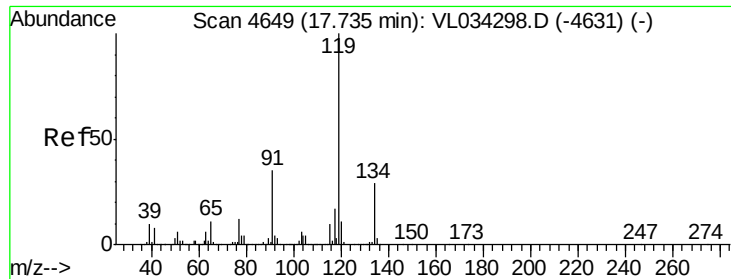
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.292 ppbv
 RT: 14.51 min Scan# 3645
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Tgt Ion: 95 Resp: 1719394
 Ion Ratio Lower Upper
 95 100
 174 64.1 52.6 78.8
 175 4.6 3.8 5.6





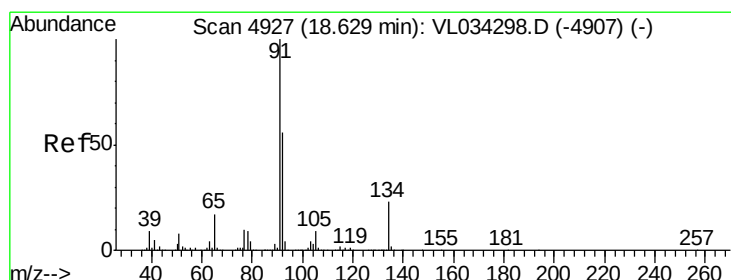
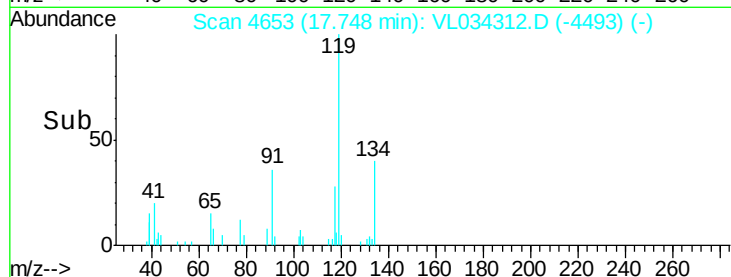
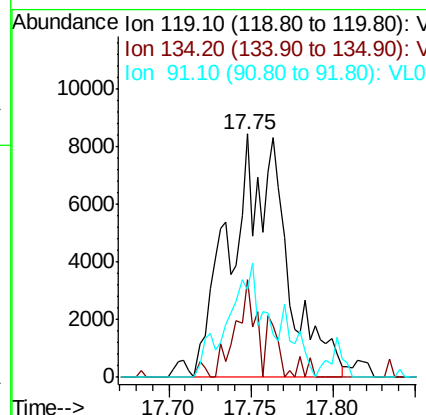
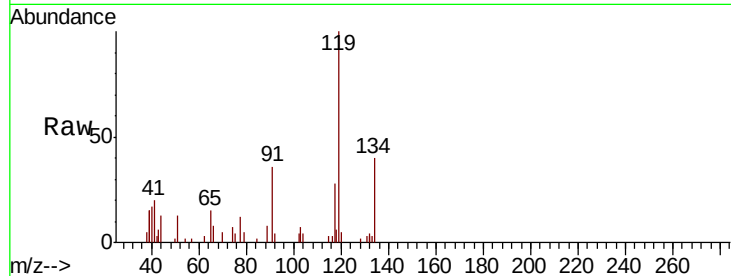
#69
 p-Isopropyltoluene
 Concen: 0.062 ppbv m
 RT: 17.75 min Scan# 4653
 Delta R.T. 0.01 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	21.3	31.9#
91	0.0	26.6	39.8#

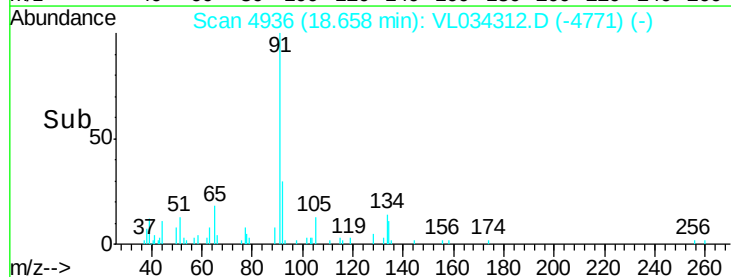
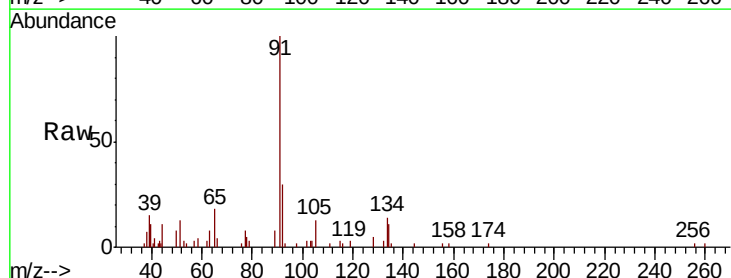
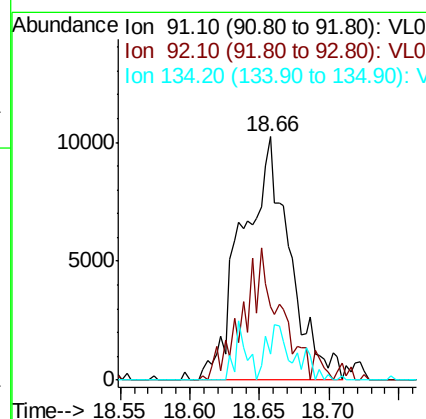
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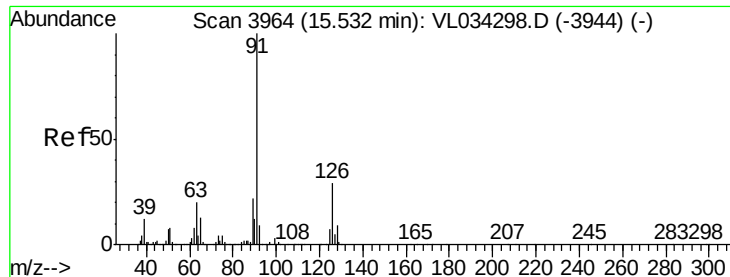
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#70
 n-Butylbenzene
 Concen: 0.069 ppbv m
 RT: 18.66 min Scan# 4936
 Delta R.T. 0.03 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Tgt Ion	Ratio	Lower	Upper
91	100		
92	45.7	44.5	66.7
134	0.0	18.2	27.2#





#71

2-Chlorotoluene

Concen: 0.076 ppbv m

RT: 15.54 min Scan# 3967

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion: 91 Resp: 18514

Ion Ratio Lower Upper

91 100

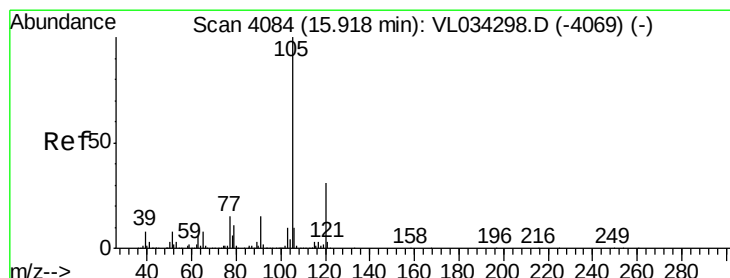
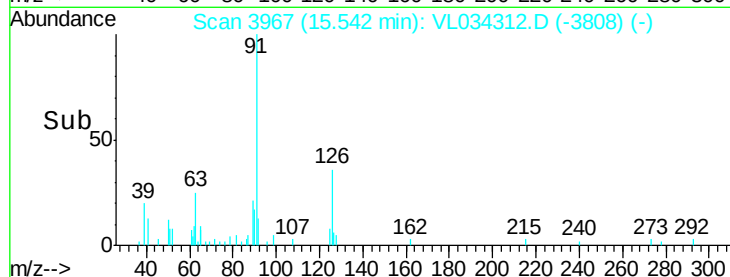
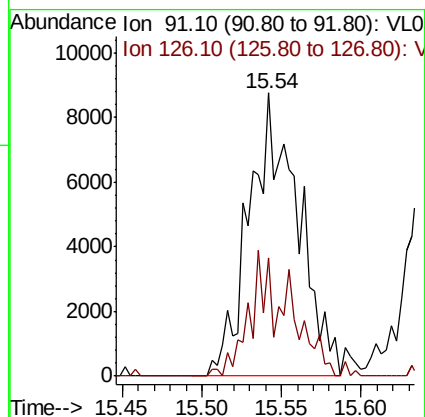
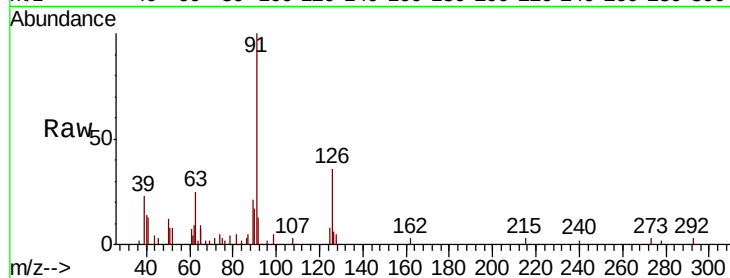
126 0.0 11.9 47.5#

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#72

4-Ethyltoluene

Concen: 0.075 ppbv m

RT: 15.93 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion: 105 Resp: 20107

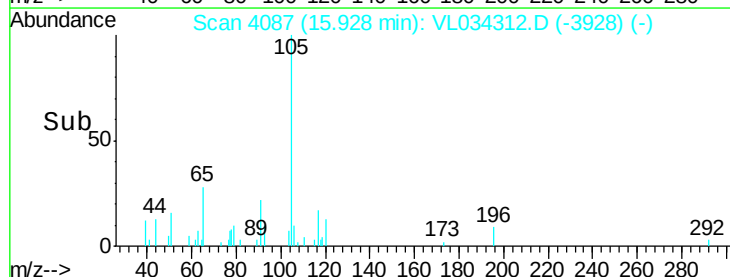
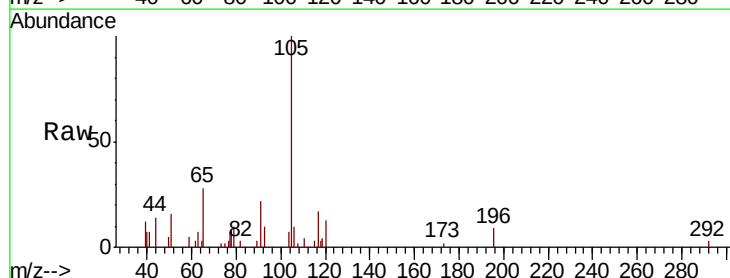
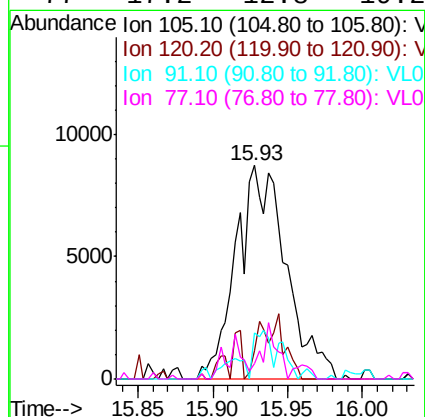
Ion Ratio Lower Upper

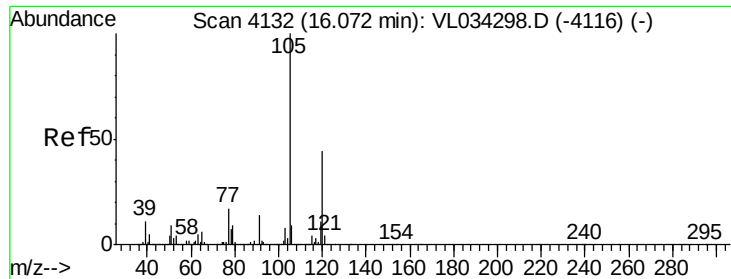
105 100

120 21.0 23.8 35.8#

91 17.5 11.2 16.8#

77 17.2 12.8 19.2





#73

1,3,5-Trimethylbenzene

Concen: 0.072 ppbv m

RT: 16.09 min Scan# 4138

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:105 Resp: 19046

Ion Ratio Lower Upper

105 100

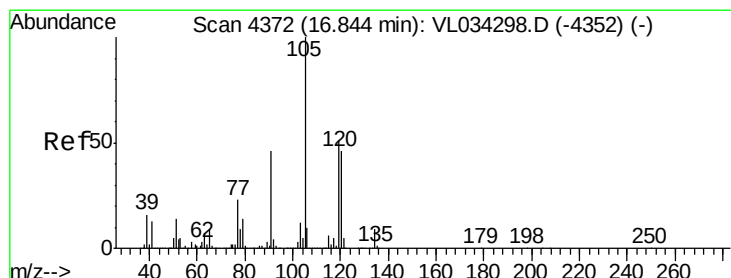
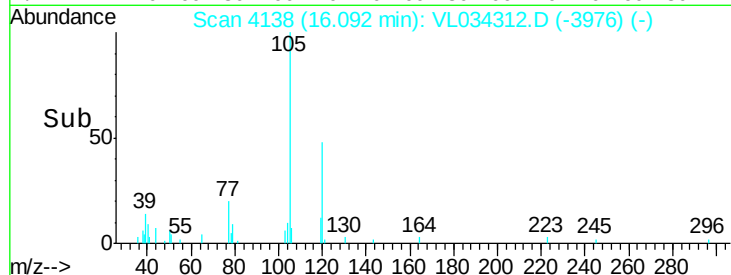
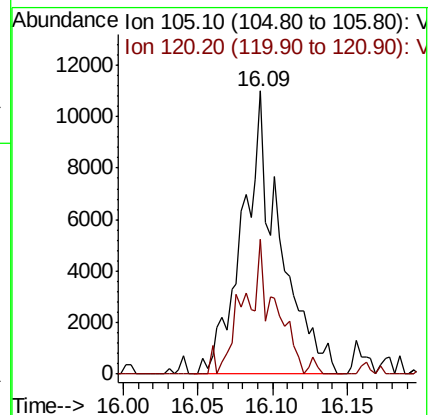
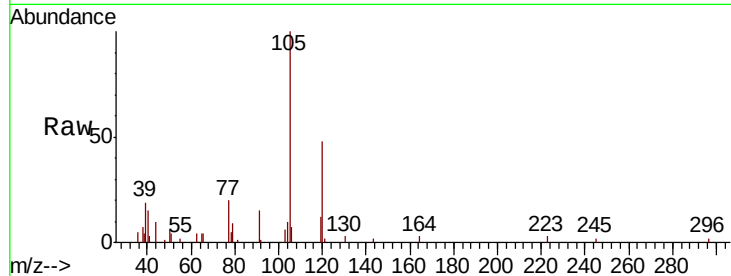
120 47.8 35.2 52.8

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#74

1,2,4-Trimethylbenzene

Concen: 0.075 ppbv m

RT: 16.86 min Scan# 4377

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion:105 Resp: 20714

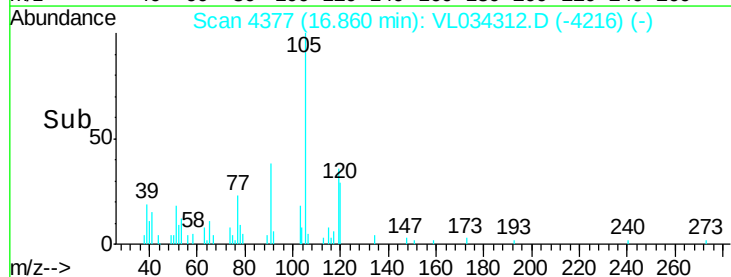
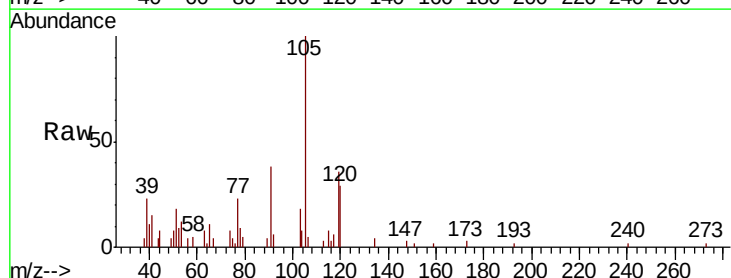
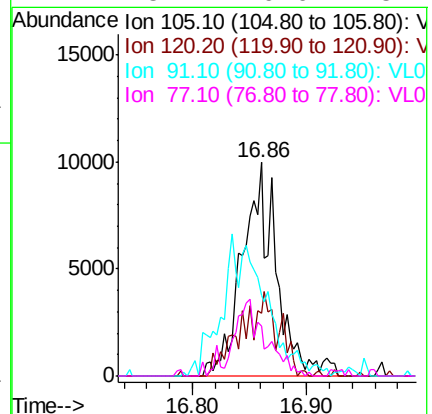
Ion Ratio Lower Upper

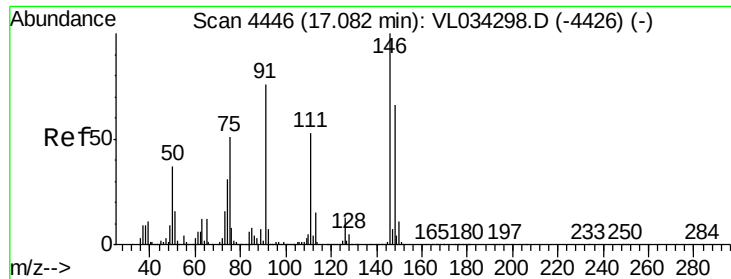
105 100

120 29.5 37.0 55.6#

91 37.8 38.2 57.2#

77 23.2 19.0 28.4





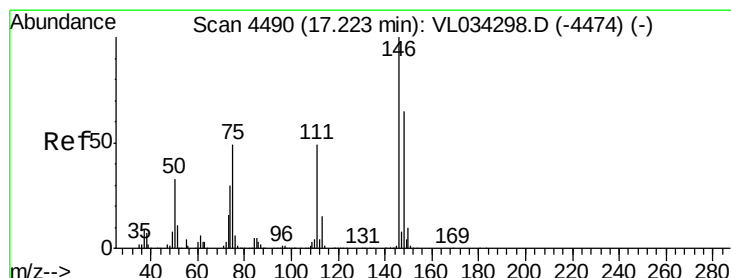
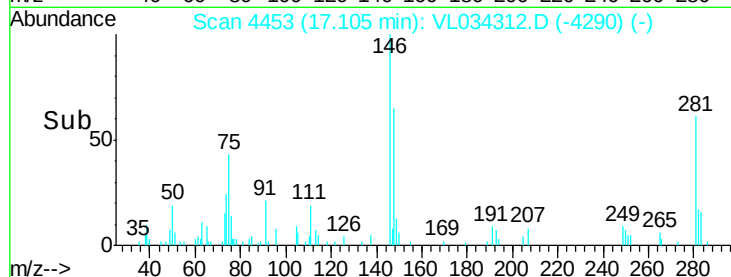
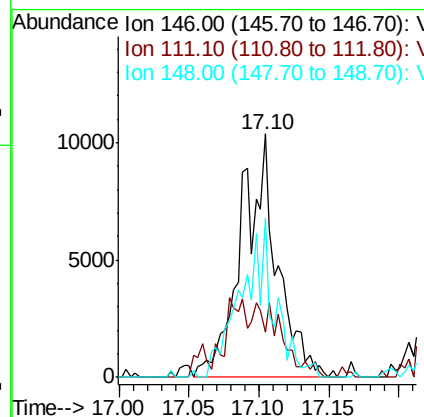
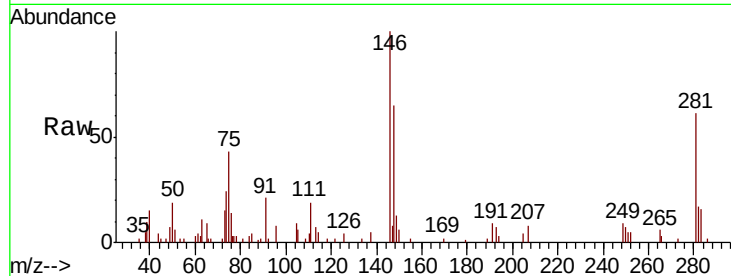
#75
 1,3-Dichlorobenzene
 Concen: 0.112 ppbv m
 RT: 17.10 min Scan# 4453
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.5	73.5#
148	59.9	32.3	96.8

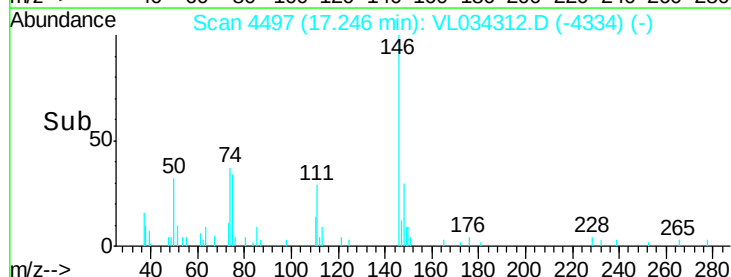
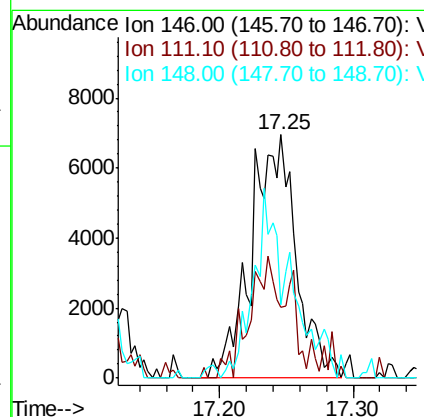
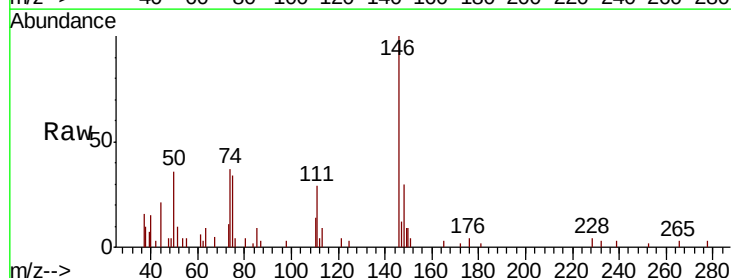
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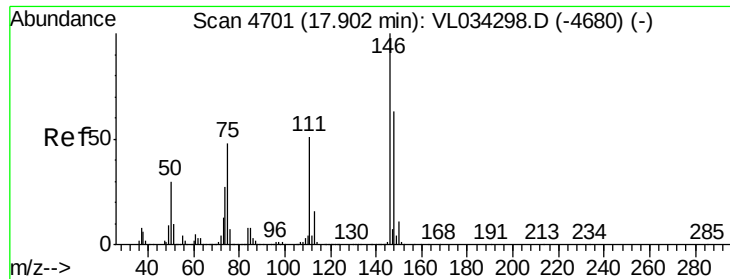
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#76
 1,4-Dichlorobenzene
 Concen: 0.100 ppbv m
 RT: 17.25 min Scan# 4497
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.9	71.7#
148	0.0	33.1	99.2#





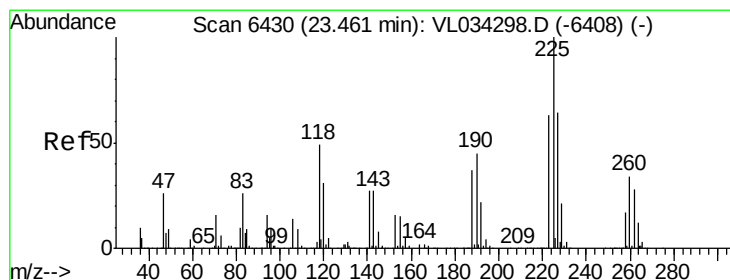
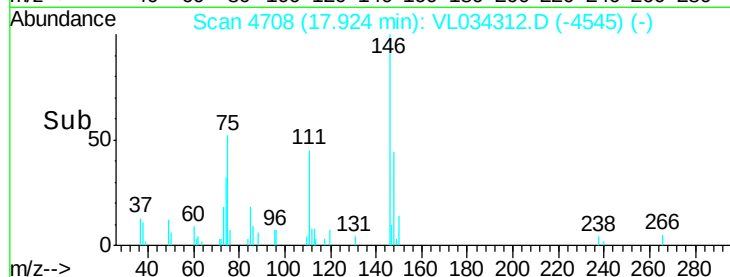
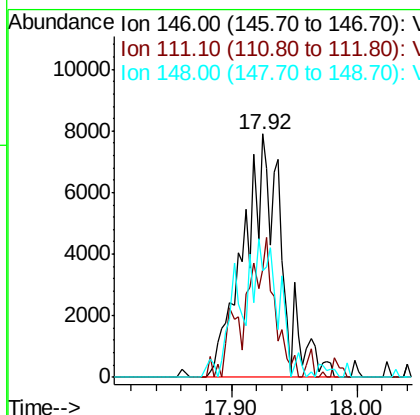
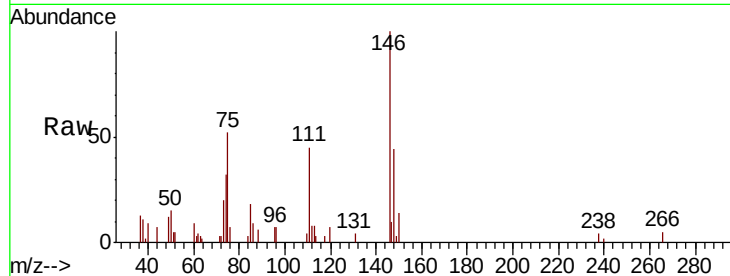
#77
 1,2-Dichlorobenzene
 Concen: 0.103 ppbv m
 RT: 17.92 min Scan# 4708
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.0	25.1	75.3
148	58.0	32.3	96.8

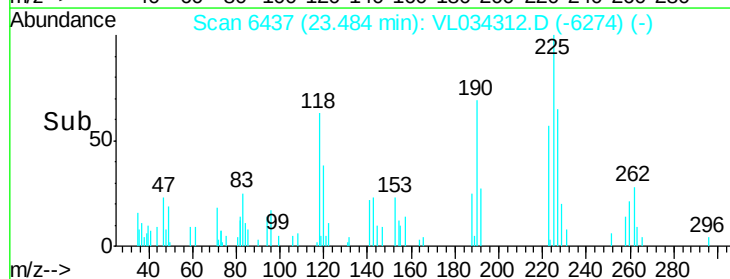
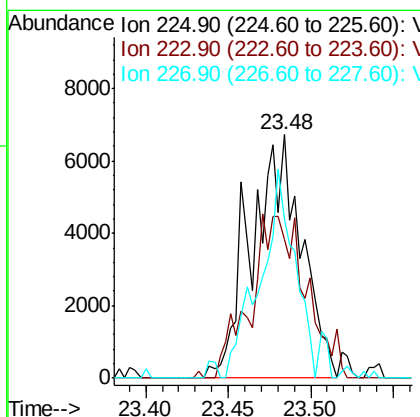
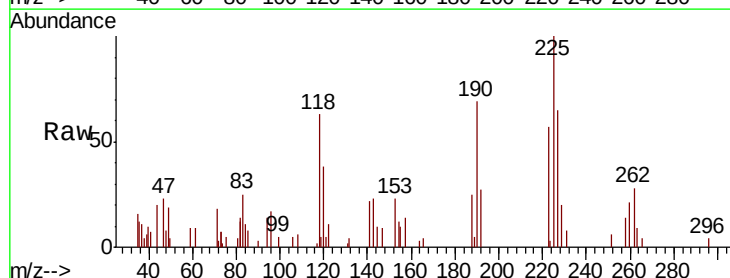
Manual Integrations
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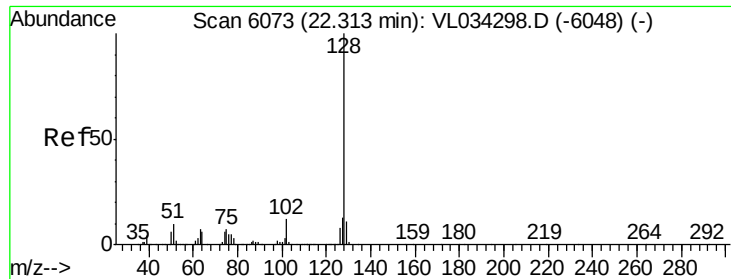
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#78
 Hexachloro-1,3-Butadiene
 Concen: 0.105 ppbv m
 RT: 23.48 min Scan# 6437
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.8	76.2#
227	0.0	51.5	77.3#





#79

Naphthalene

Concen: 0.050 ppbv m

RT: 22.34 min Scan# 6080

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

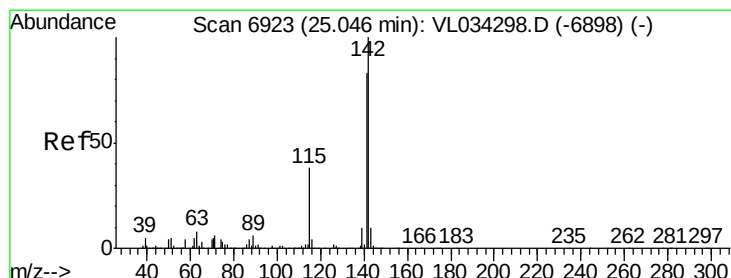
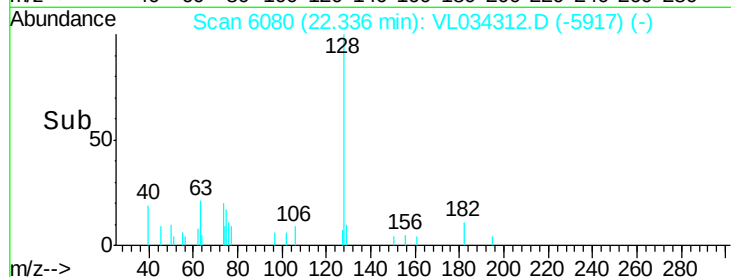
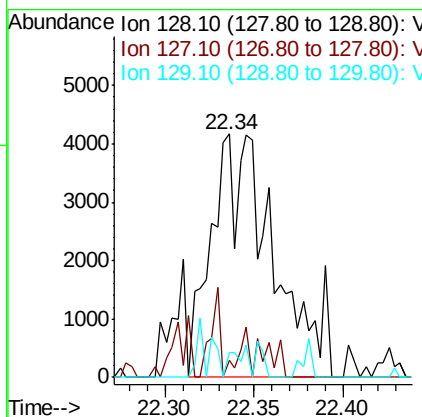
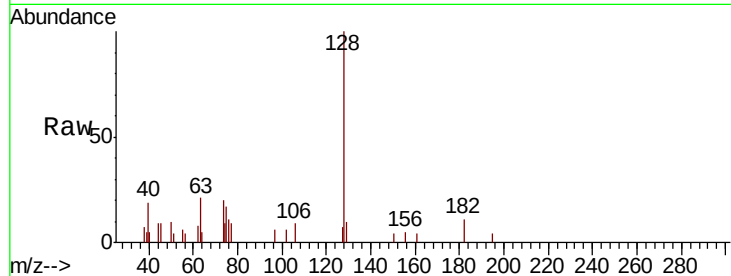
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:	128	Resp:	10032
Ion Ratio	Lower	Upper	
128	100		
127	100.0	10.2	15.4#
129	10.1	8.9	13.3

Manual Integrations
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10/18/2019 3:05:07 PM



#80

Naphthalene, 2-methyl-

Concen: 0.031 ppbv m

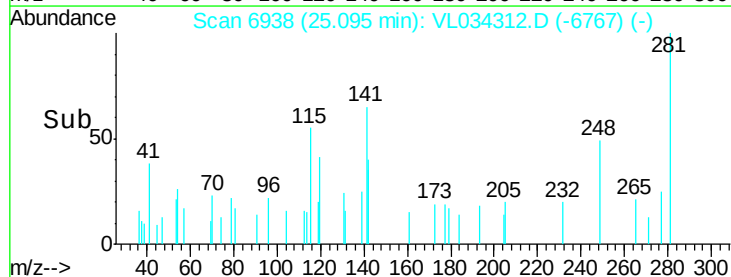
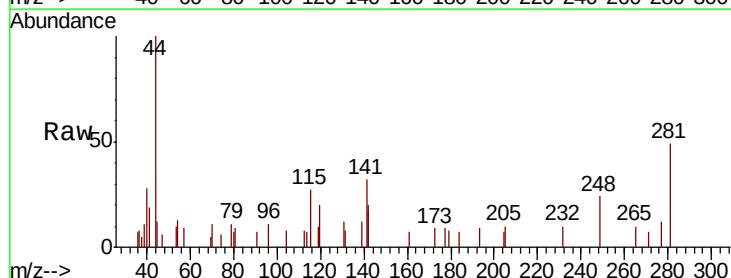
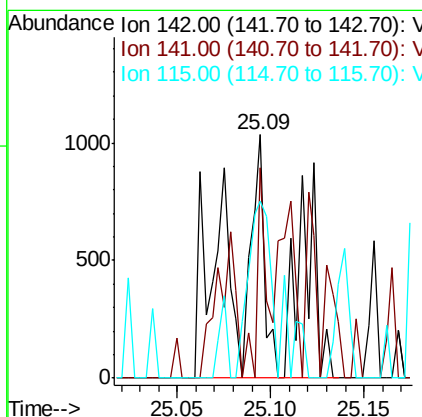
RT: 25.09 min Scan# 6938

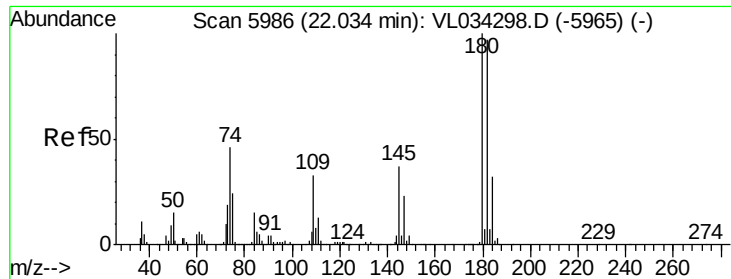
Delta R.T. 0.05 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion:	142	Resp:	1785
Ion Ratio	Lower	Upper	
142	100		
141	26.4	65.7	98.5#
115	0.0	30.9	46.3#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.081 ppbv m
 RT: 22.09 min Scan# 6002
 Delta R.T. 0.05 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.8	116.8#
184	30.9	25.4	38.2

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:05:07 PM

