

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070518\
 Data File : VL032216.D
 Acq On : 5 Jul 2018 23:22
 Operator : SY/AP
 Sample : J3762-14 1 PPB LOQ
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

Manual Integrations
 APPROVED

MMDadoda
 7/9/2018 10:47:39 AM

Quant Time: Jul 06 05:38:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1551850	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3789977	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3919796	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.67	95	2969703	9.91	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	238649	1.17	ppbv	98
3) Chlorodifluoromethane	3.07	51	194198	1.02	ppbv #	92
4) Chloromethane	3.23	50	103880	1.03	ppbv	99
5) Vinyl Chloride	3.35	62	98584	0.96	ppbv	91
6) Bromomethane	3.58	94	56777	0.97	ppbv	99
7) Chloroethane	3.67	64	35638	0.99	ppbv	89
8) Dichlorotetrafluoroethane	3.28	85	245126	1.07	ppbv	90
9) Propene	3.09	41	63181	0.71	ppbv	95
10) Heptane	8.33	43	271657	1.05	ppbv	96
11) Trichlorofluoromethane	4.07	101	229012	1.04	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.62	101	140682	0.96	ppbv	90
13) Ethanol	3.72	45	25251m	0.94	ppbv	
14) Bromoethene	3.85	108	63008	0.90	ppbv #	95
15) Acetone	3.97	43	194697	1.07	ppbv	98
16) 1,3-Butadiene	3.42	39	90727	1.05	ppbv	85
17) tert-Butyl alcohol	4.44	59	79551	0.69	ppbv	95
18) 1,1-Dichloroethene	4.42	96	65472	0.93	ppbv	96
19) Isopropyl Alcohol	4.10	45	119748	0.79	ppbv #	46
20) Methylene Chloride	4.48	84	63845	0.96	ppbv	94
21) Allyl Chloride	4.55	41	97591	0.79	ppbv	89
22) trans-1,2-Dichloroethene	5.04	96	66919	0.91	ppbv	92
23) Vinyl Acetate	5.23	43	251274	0.76	ppbv #	97
24) 1,1-Dichloroethane	5.17	63	219733	1.04	ppbv	99
25) Ethyl Acetate	5.85	43	387271	1.03	ppbv	99
26) Hexane	5.86	57	175020	1.01	ppbv	93
27) Carbon Disulfide	4.69	76	125942	0.73	ppbv #	91
28) Methyl tert-Butyl Ether	5.20	73	257435	0.84	ppbv	97
29) Chloroform	5.93	83	281132	1.12	ppbv	92
30) Cyclohexane	7.34	84	158002	0.97	ppbv #	72
31) cis-1,2-Dichloroethene	5.72	61	156582	0.91	ppbv	91
32) 1,1,1-Trichloroethane	6.70	97	298903	1.13	ppbv	96
34) 2-Butanone	5.41	43	227729	0.95	ppbv	97
35) Carbon Tetrachloride	7.22	117	294354	1.13	ppbv	97
36) Benzene	7.09	78	415223	1.13	ppbv	99
37) 1,2-Dichloroethane	6.49	62	247062	1.35	ppbv	96
38) Trichloroethene	8.05	130	128353	0.90	ppbv	94
39) 1,2-Dichloropropane	7.82	63	160305	1.11	ppbv	91
40) 1,4-Dioxane	8.07	88	57983m	1.02	ppbv	
41) Tetrahydrofuran	6.25	42	126135	0.87	ppbv	99
42) Bromodichloromethane	8.01	83	284373	0.99	ppbv	100
43) Methyl Methacrylate	8.23	69	138145	0.91	ppbv	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	652004	1.02	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	137094	0.73	ppbv	99
46) cis-1,3-Dichloropropene	8.93	75	196948	0.88	ppbv	94
47) 1,1,2-Trichloroethane	9.71	97	180964	1.20	ppbv	93
48) Dibromochloromethane	10.54	129	252516	1.08	ppbv	98
49) Bromoform	13.30	173	192167	0.99	ppbv	99
50) 4-Methyl-2-Pentanone	8.97	43	386316	0.98	ppbv	99
51) 2-Hexanone	10.38	43	366929	1.12	ppbv #	97
52) Tetrachloroethene	11.47	164	136918	1.03	ppbv	94
53) Toluene	10.04	91	450754	1.02	ppbv	98
54) 1,2-Dibromoethane	10.85	107	265785	1.18	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.38	131	200948	1.15	ppbv #	1
57) Chlorobenzene	12.39	112	400399	1.18	ppbv	97
58) Ethyl Benzene	12.96	91	666813	1.06	ppbv	91
59) m/p-Xylene	13.25	91	1124704m	2.22	ppbv	
60) o-Xylene	13.94	91	570992	1.13	ppbv	96
61) Styrene	13.78	104	398374	0.96	ppbv	93
62) Isopropylbenzene	14.92	105	787735	1.01	ppbv	95
63) 1,1,2,2-Tetrachloroethane	13.93	83	464823	1.19	ppbv	99
64) n-propylbenzene	15.82	120	190452	0.95	ppbv	68
65) tert-Butylbenzene	17.01	119	673344	0.99	ppbv	90
66) Benzyl Chloride	17.25	91	219020	0.52	ppbv #	92
67) sec-Butylbenzene	17.55	105	1016421	1.02	ppbv	96
69) p-Isopropyltoluene	17.91	119	754657	0.94	ppbv	95
70) n-Butylbenzene	18.81	91	846464	1.01	ppbv	96
71) 2-Chlorotoluene	15.71	91	607066	1.02	ppbv	95
72) 4-Ethyltoluene	16.10	105	613102	0.94	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.25	105	591434	0.96	ppbv	87
74) 1,2,4-Trimethylbenzene	17.02	105	617014	1.00	ppbv	93
75) 1,3-Dichlorobenzene	17.26	146	371339	1.05	ppbv	97
76) 1,4-Dichlorobenzene	17.40	146	350254	0.98	ppbv	97
77) 1,2-Dichlorobenzene	18.09	146	366405m	1.04	ppbv	
78) Hexachloro-1,3-Butadiene	23.63	225	108124	0.88	ppbv	98
79) Naphthalene	22.53	128	301366m	0.53	ppbv	
80) Naphthalene, 2-methyl-	25.19	142	22022	0.11	ppbv #	89
81) 1,2,4-Trichlorobenzene	22.25	180	166254m	0.65	ppbv	

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

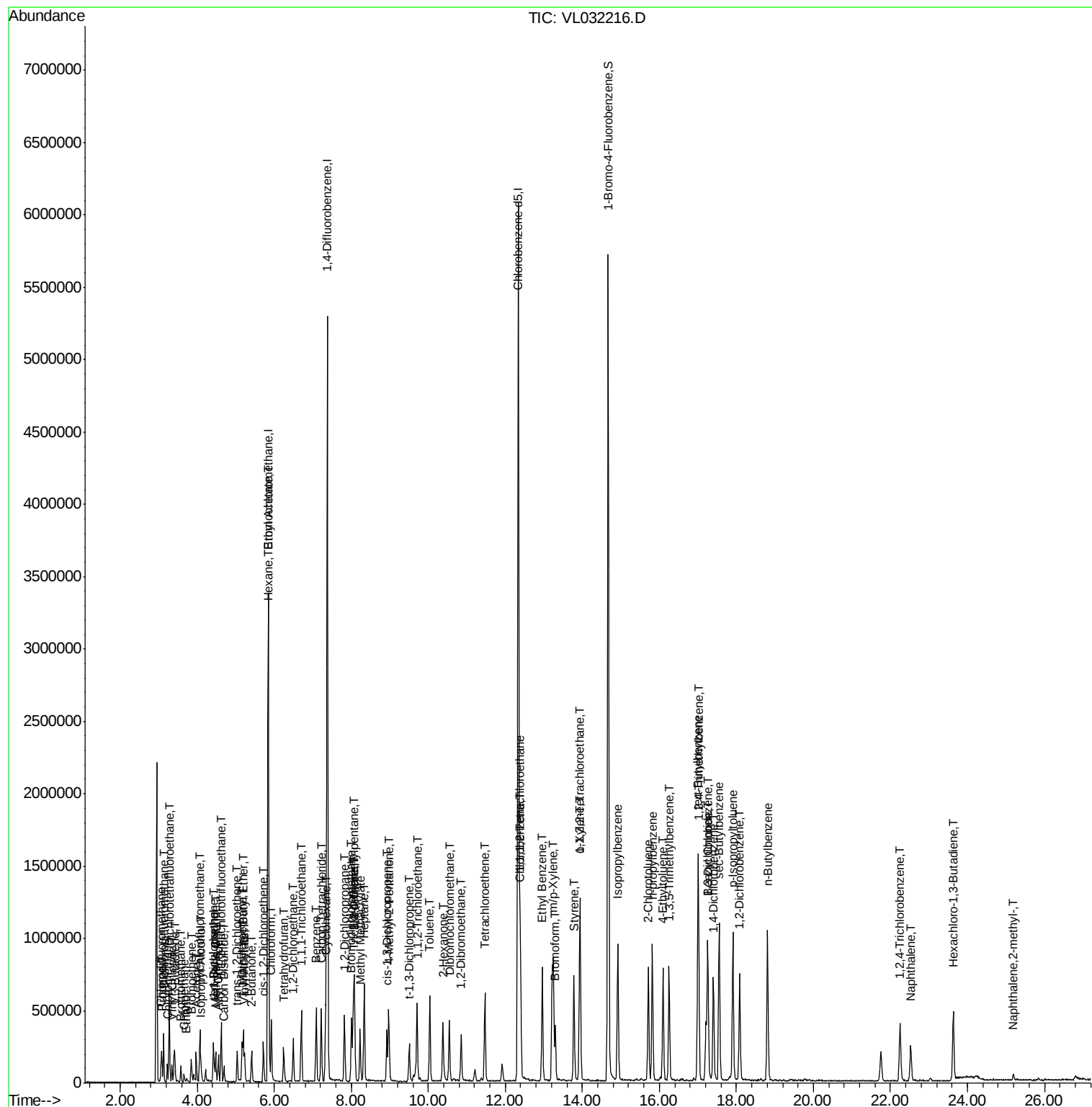
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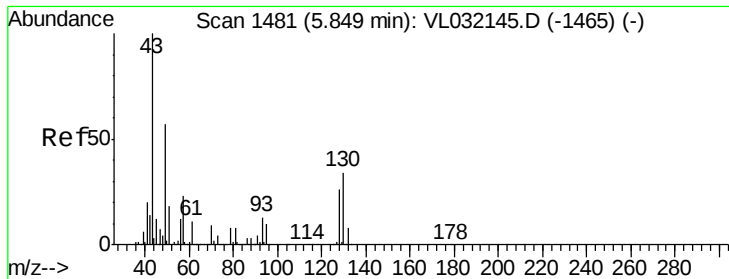
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

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QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1479

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

Tot Ion: 49 Resp: 1551850

Ion Ratio Lower Upper

49 100

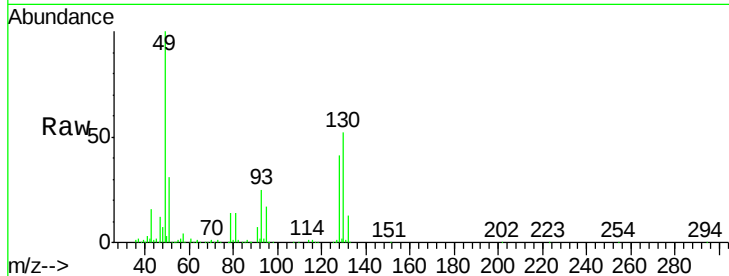
128 42.9 23.4 70.0

130 54.7 30.3 90.9

Manual Integrations
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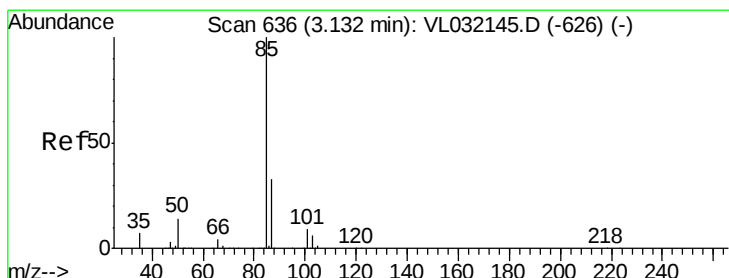
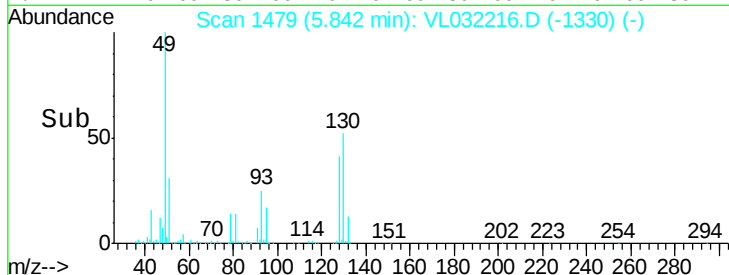
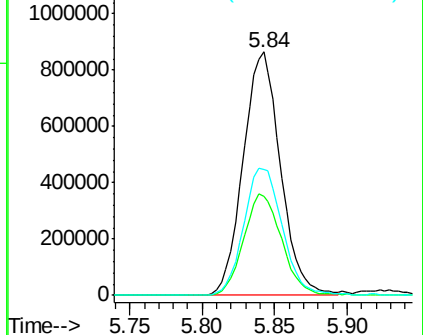
7/9/2018 10:47:39 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.17 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032216.D

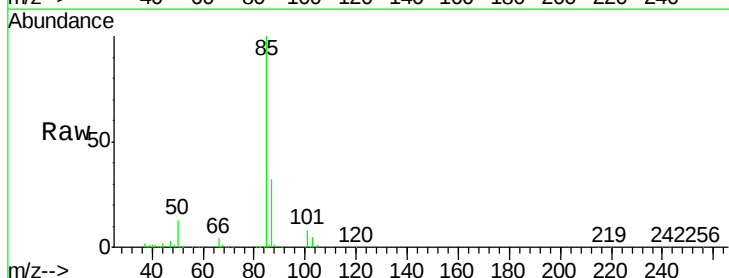
Acq: 5 Jul 2018 23:22

Tgt Ion: 85 Resp: 238649

Ion Ratio Lower Upper

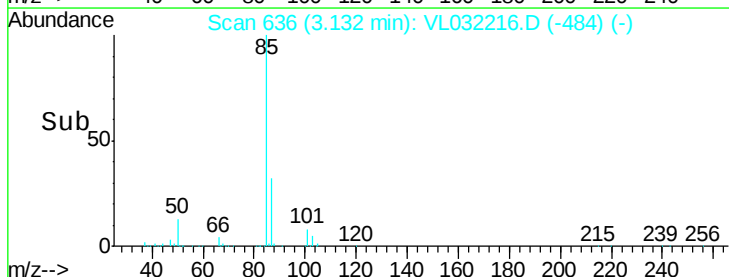
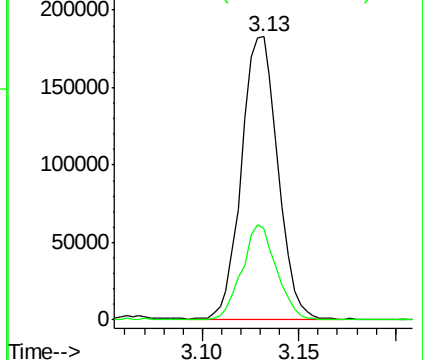
85 100

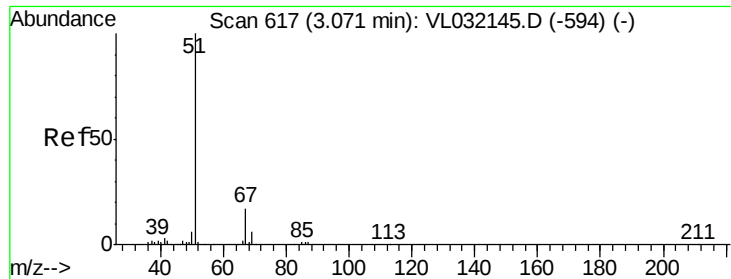
87 32.3 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.02 ppbv

RT: 3.07 min Scan# 616

Delta R.T. -0.01 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

Tot Ion: 51 Resp: 194198

Ion Ratio Lower Upper

51 100

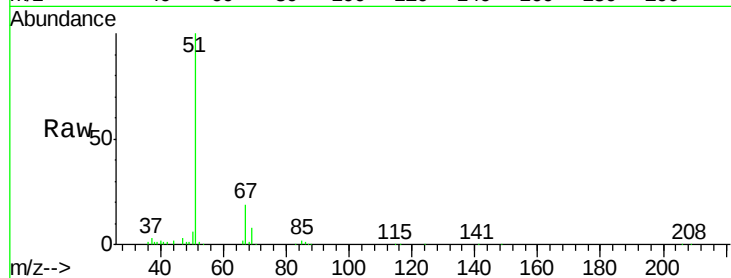
67 19.8 13.2 19.8#

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

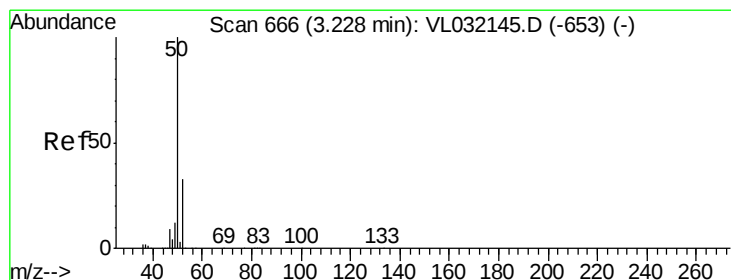
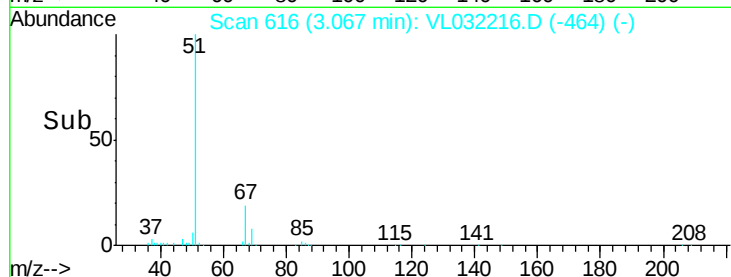
150000

100000

50000

0

Time--> 2.95 3.00 3.05 3.10



#4

Chloromethane

Concen: 1.03 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032216.D

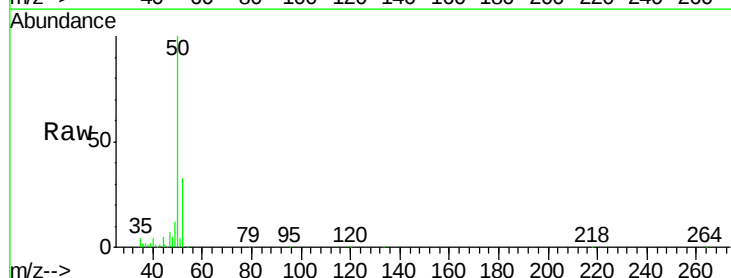
Acq: 5 Jul 2018 23:22

Tgt Ion: 50 Resp: 103880

Ion Ratio Lower Upper

50 100

52 32.8 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

80000

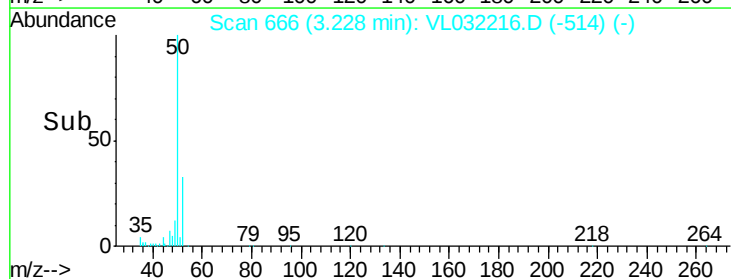
60000

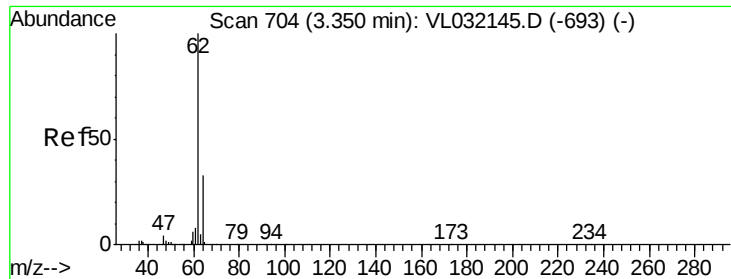
40000

20000

0

Time--> 3.20 3.25





#5

Vinyl Chloride

Concen: 0.96 ppbv

RT: 3.35 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

Tot Ion: 62 Resp: 98584

Ion Ratio Lower Upper

62 100

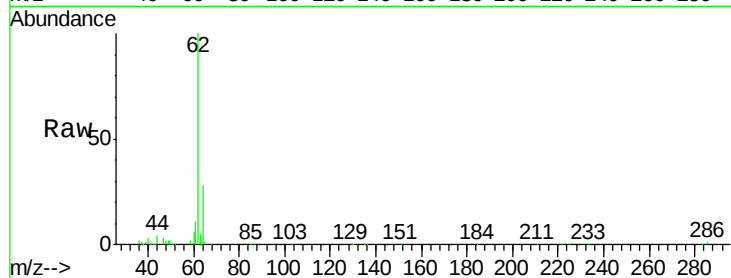
64 27.7 26.1 39.1

Manual Integrations

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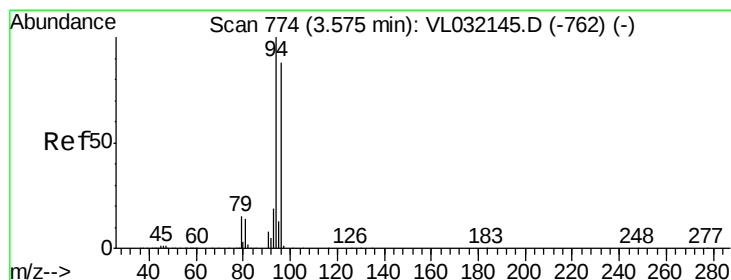
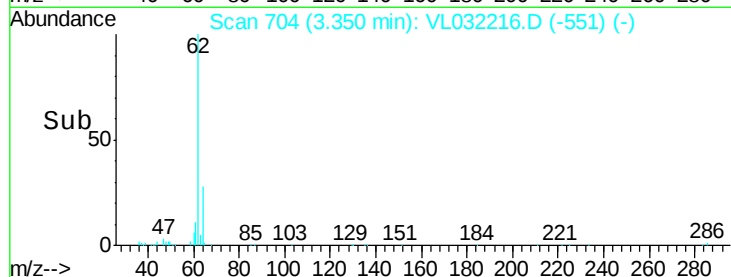
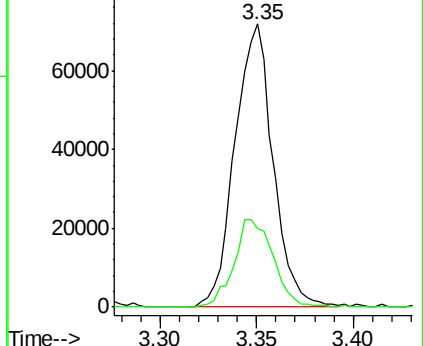
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.97 ppbv

RT: 3.58 min Scan# 774

Delta R.T. -0.01 min

Lab File: VL032216.D

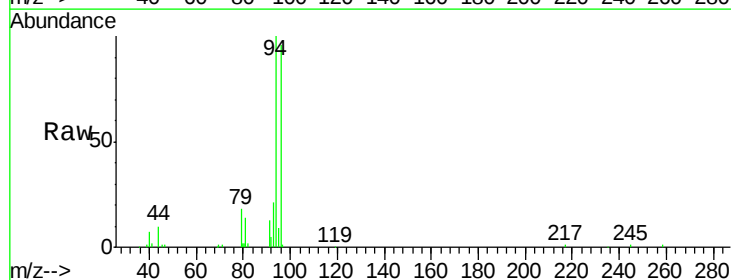
Acq: 5 Jul 2018 23:22

Tgt Ion: 94 Resp: 56777

Ion Ratio Lower Upper

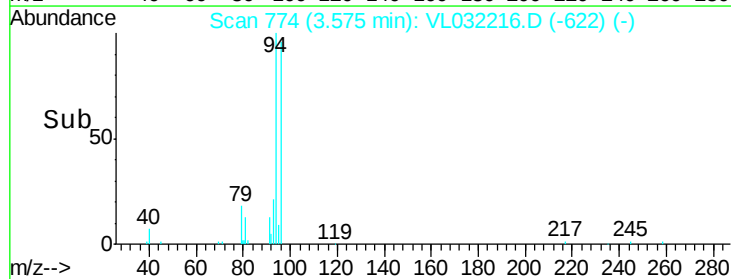
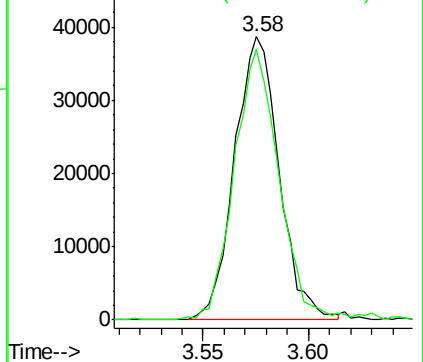
94 100

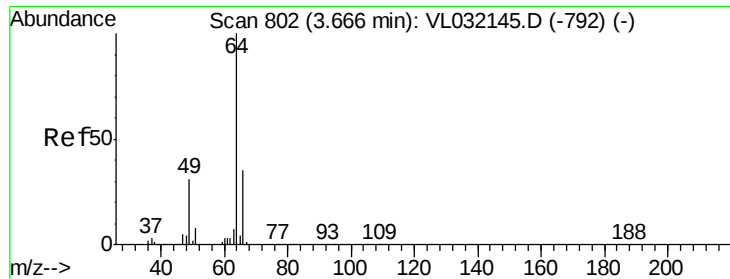
96 94.4 74.7 112.1



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.99 ppbv

RT: 3.67 min Scan# 802

Delta R.T. -0.01 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

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ClientSampleId :

LOQ-AIR-02-QT3-2018

Tot Ion: 64 Resp: 35638

Ion Ratio Lower Upper

64 100

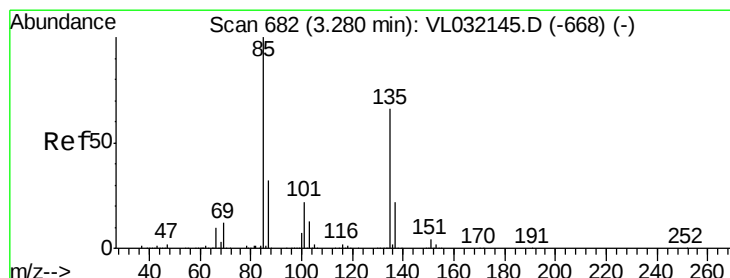
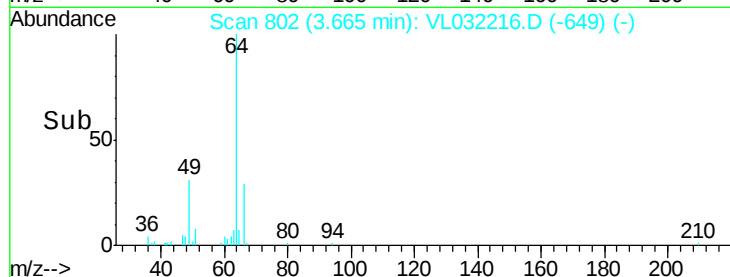
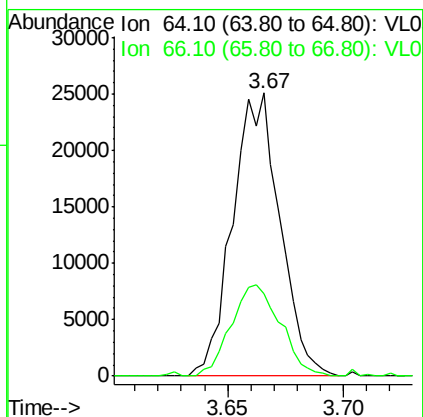
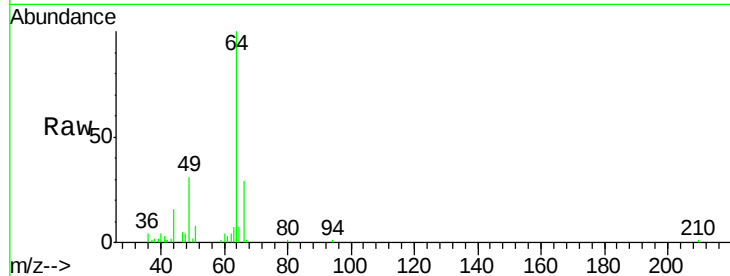
66 27.3 26.9 40.3

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 1.07 ppbv

RT: 3.28 min Scan# 681

Delta R.T. -0.01 min

Lab File: VL032216.D

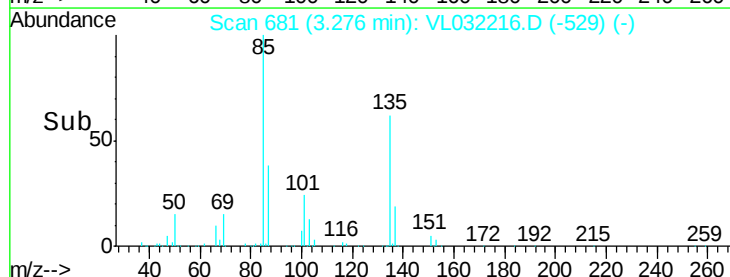
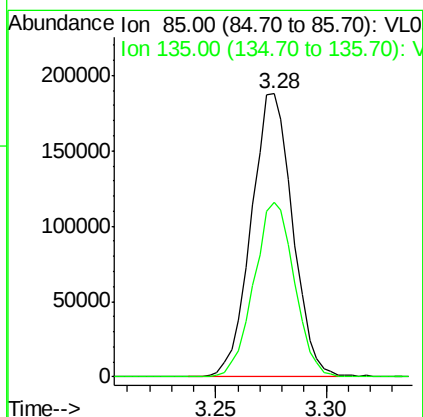
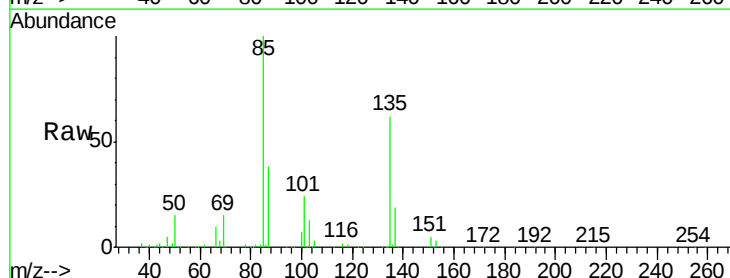
Acq: 5 Jul 2018 23:22

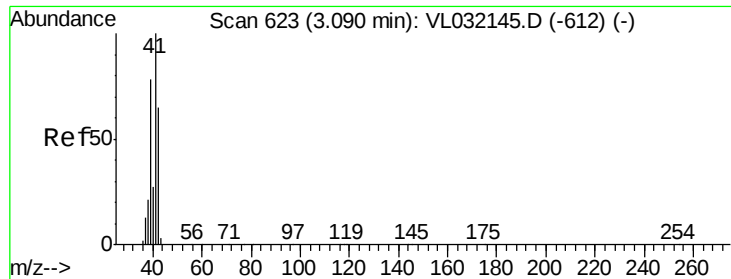
Tgt Ion: 85 Resp: 245126

Ion Ratio Lower Upper

85 100

135 60.2 54.6 82.0





#9

Propene

Concen: 0.71 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

Tot Ion: 41 Resp: 63181

Ion Ratio Lower Upper

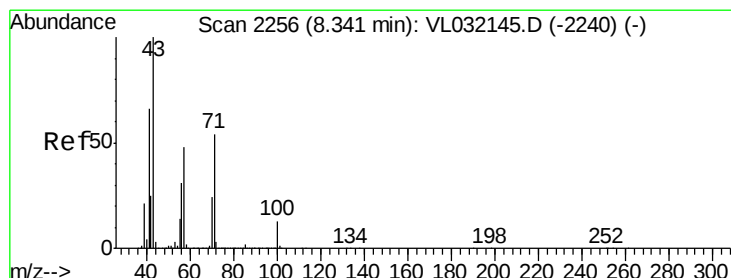
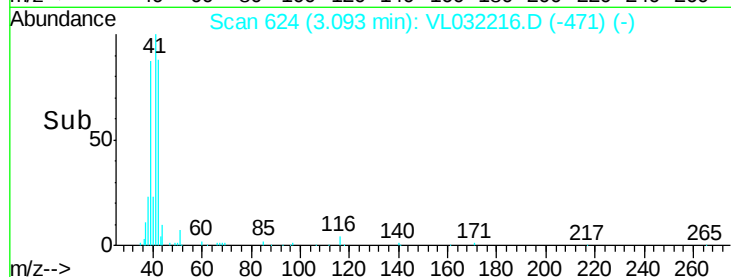
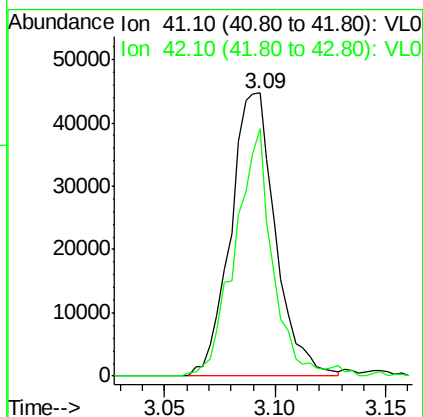
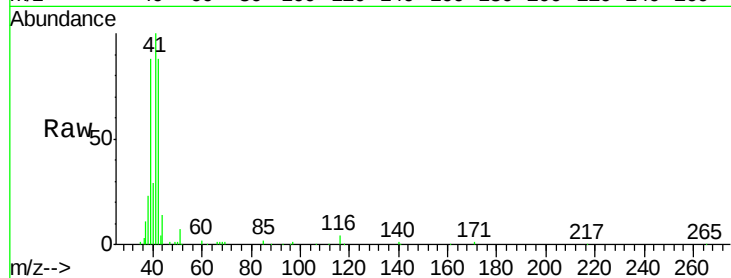
41 100

42 74.2 56.2 84.4

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#10

Heptane

Concen: 1.05 ppbv

RT: 8.33 min Scan# 2254

Delta R.T. -0.02 min

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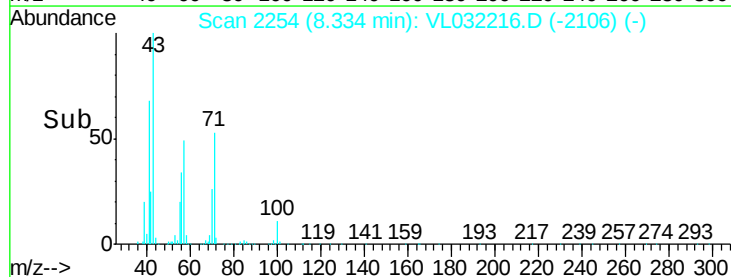
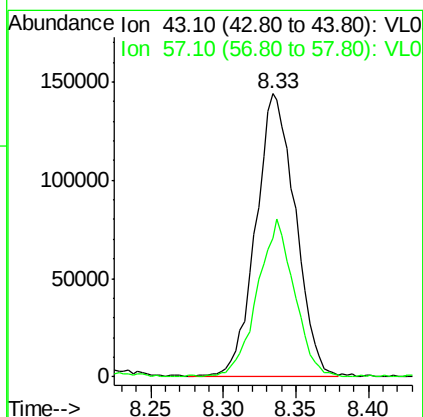
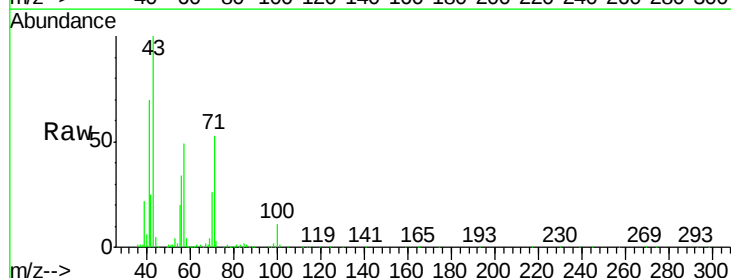
Acq: 5 Jul 2018 23:22

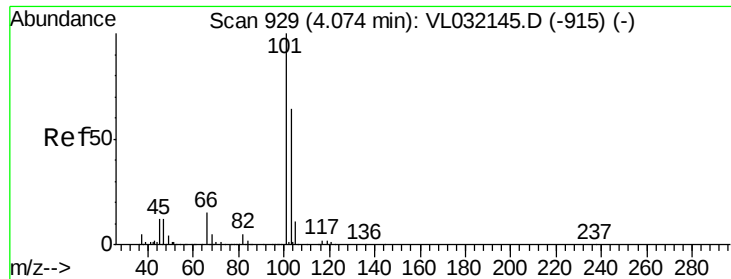
Tgt Ion: 43 Resp: 271657

Ion Ratio Lower Upper

43 100

57 52.9 39.8 59.8





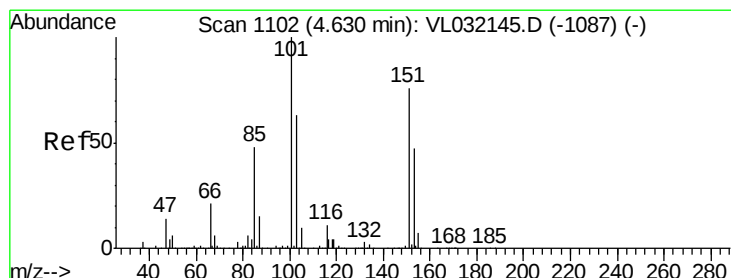
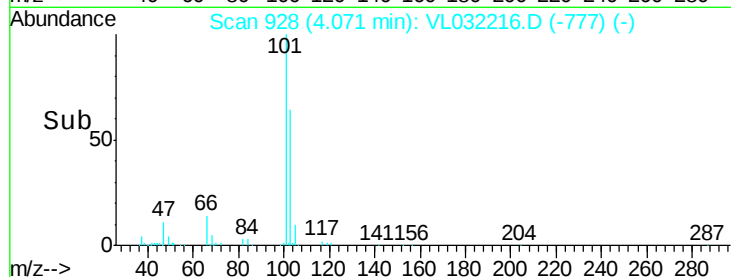
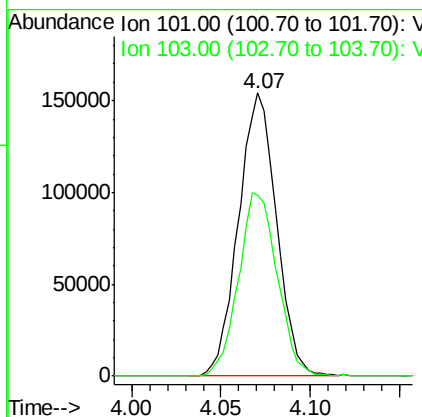
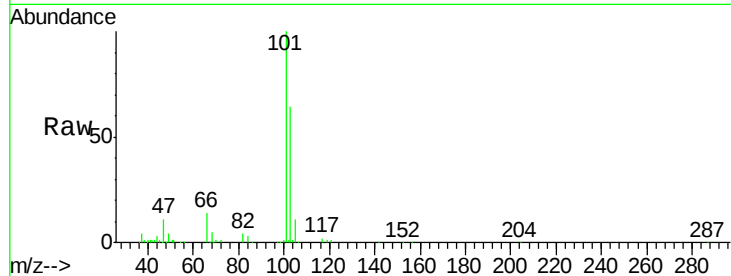
#11
 Trichlorofluoromethane
 Concen: 1.04 ppbv
 RT: 4.07 min Scan# 928
 Delta R.T. -0.01 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.4	77.0

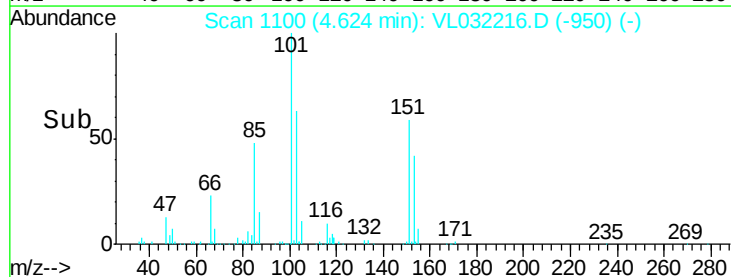
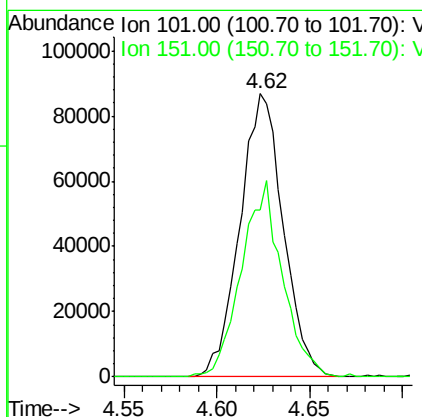
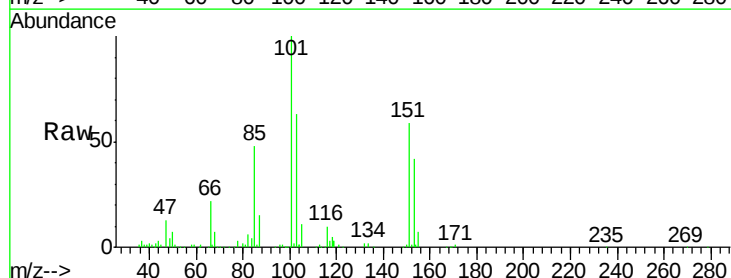
Manual Integrations
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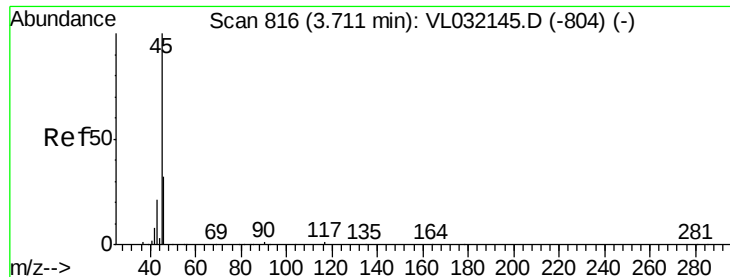
MMDadoda
 7/9/2018 10:47:39 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.96 ppbv
 RT: 4.62 min Scan# 1100
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Lower	Upper
101	100		
151	65.4	58.8	88.2





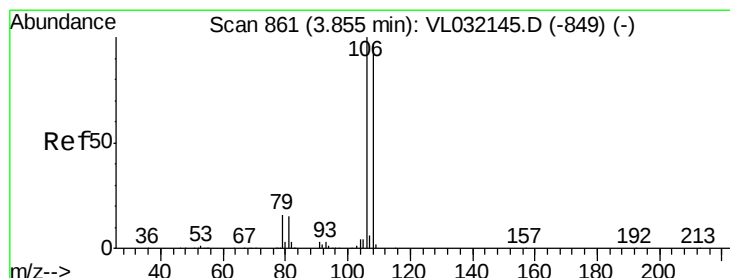
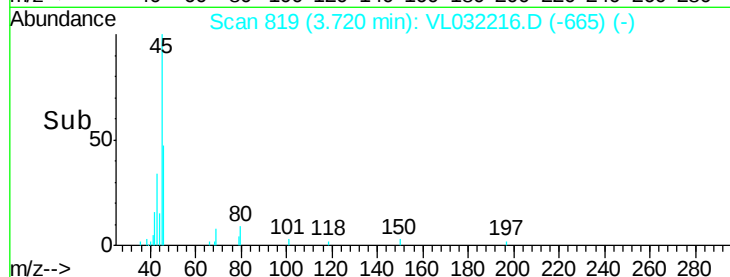
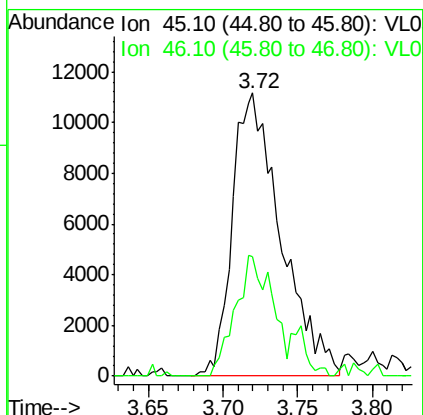
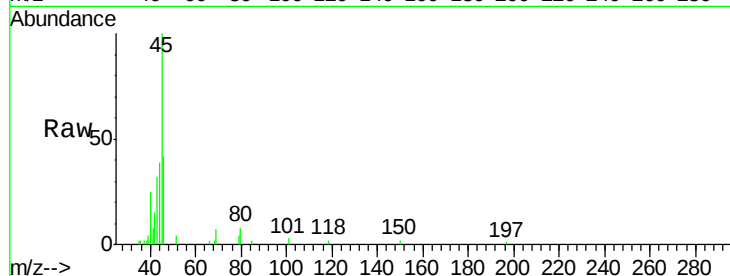
#13
Ethanol
Concen: 0.94 ppbv m
RT: 3.72 min Scan# 819
Delta R.T. -0.00 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

Tot Ion: 45 Resp: 25251
Ion Ratio Lower Upper
45 100
46 38.0 14.6 58.4

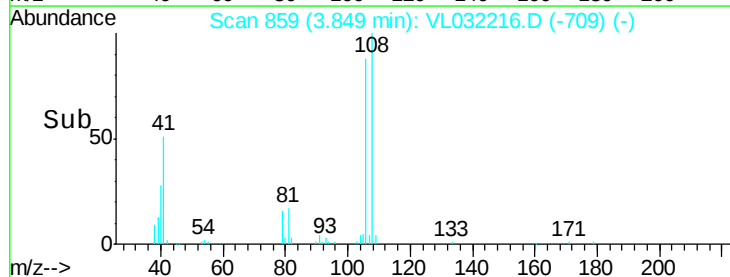
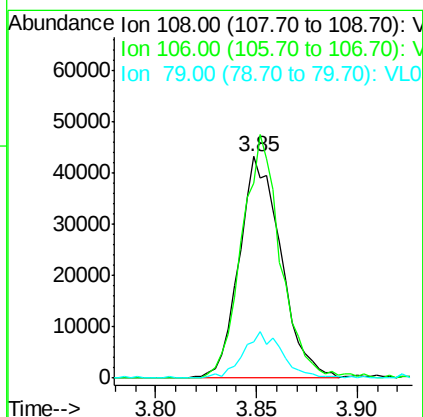
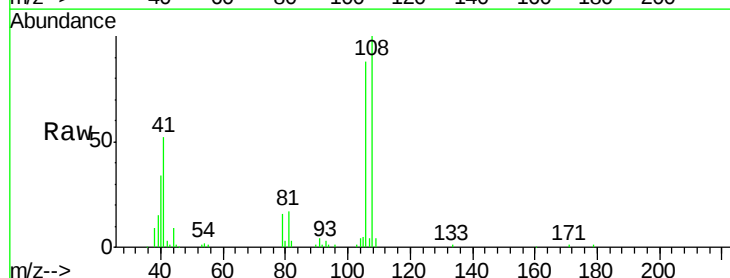
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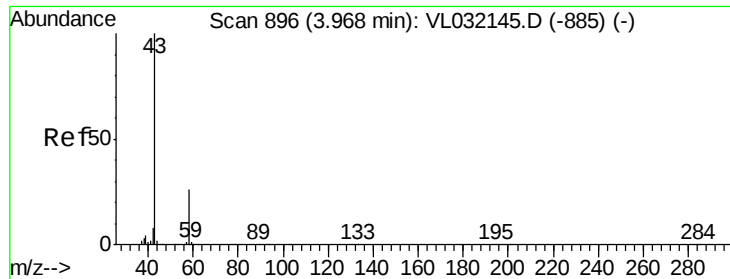
MMDadoda
7/9/2018 10:47:39 AM



#14
Bromoethene
Concen: 0.90 ppbv
RT: 3.85 min Scan# 859
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion: 108 Resp: 63008
Ion Ratio Lower Upper
108 100
106 102.7 86.3 129.5
79 19.5 12.7 19.1#





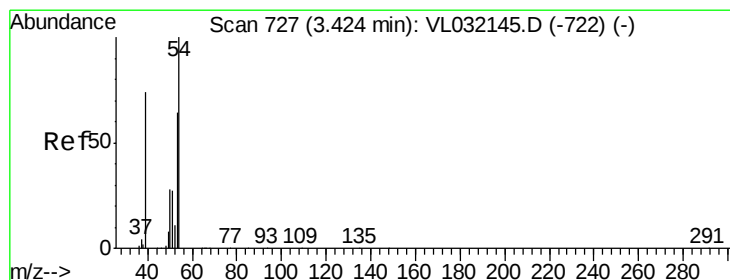
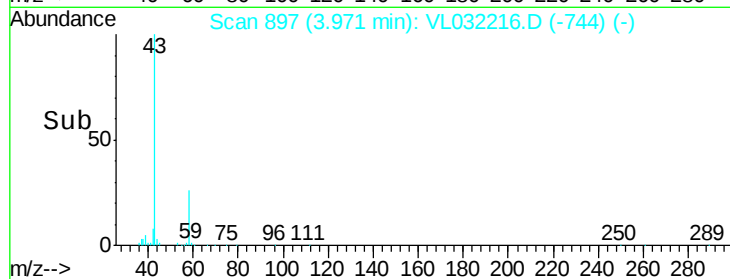
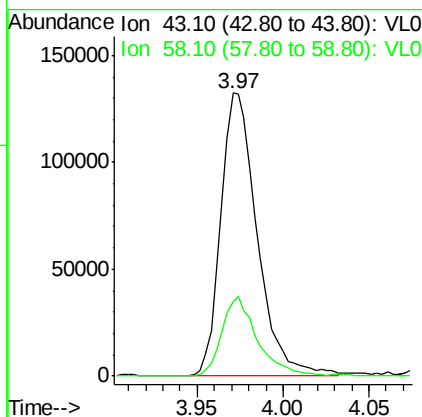
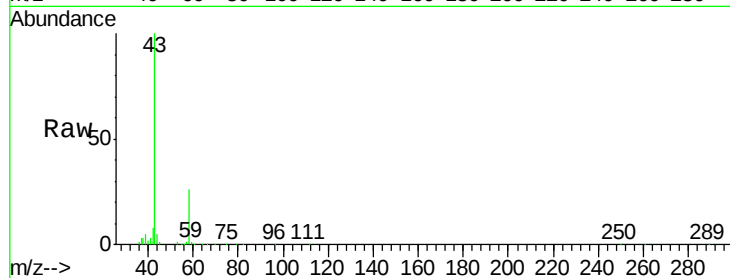
#15
Acetone
Concen: 1.07 ppbv
RT: 3.97 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

Tot Ion	43	Resp	194697
Ion Ratio	100	Lower	Upper
43	100		
58	27.9	21.4	32.0

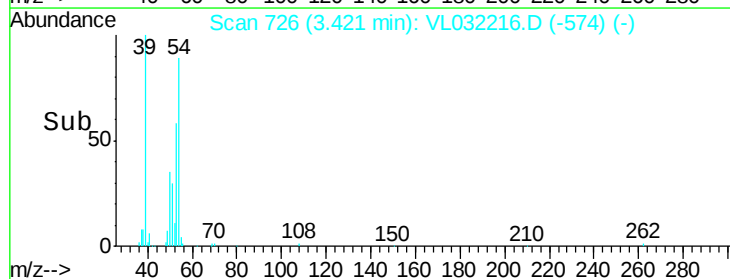
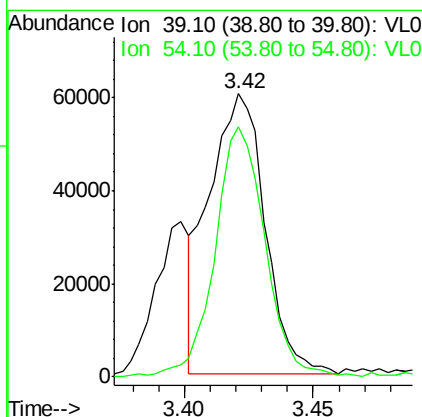
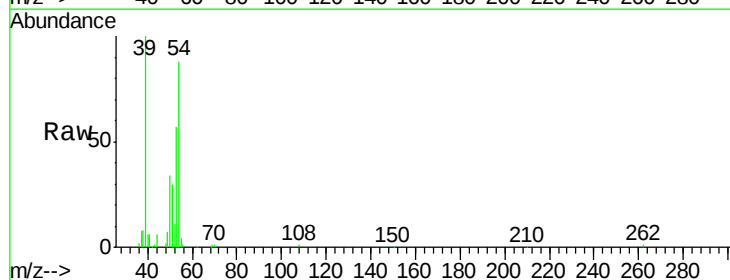
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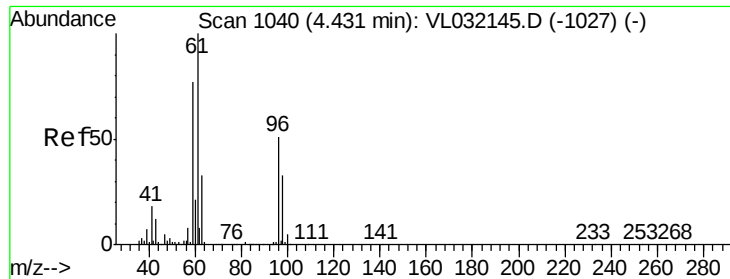
MMDadoda
7/9/2018 10:47:39 AM



#16
1,3-Butadiene
Concen: 1.05 ppbv
RT: 3.42 min Scan# 726
Delta R.T. -0.01 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion	39	Resp	90727
Ion Ratio	100	Lower	Upper
39	100		
54	80.5	75.8	113.6





#17

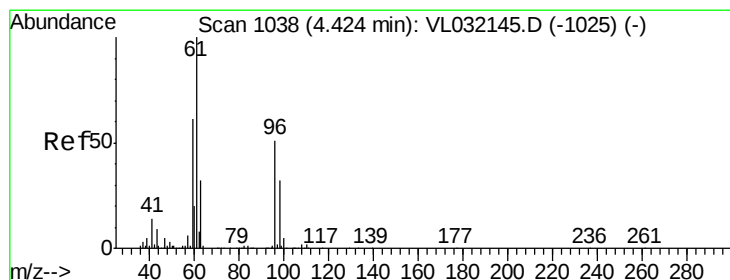
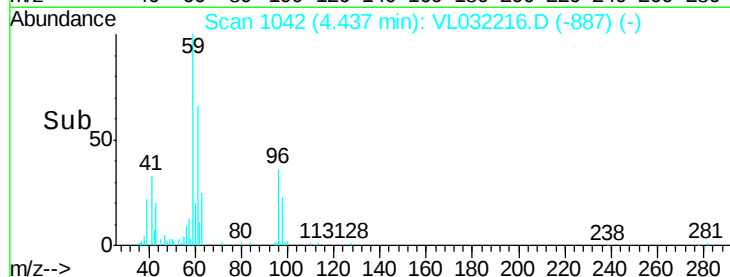
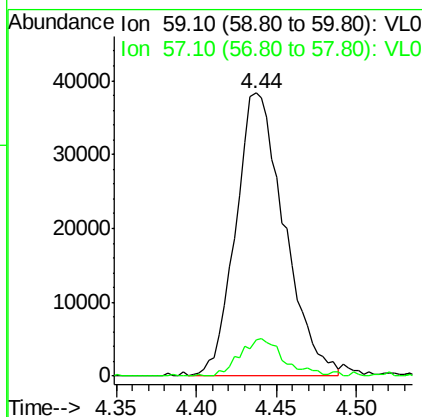
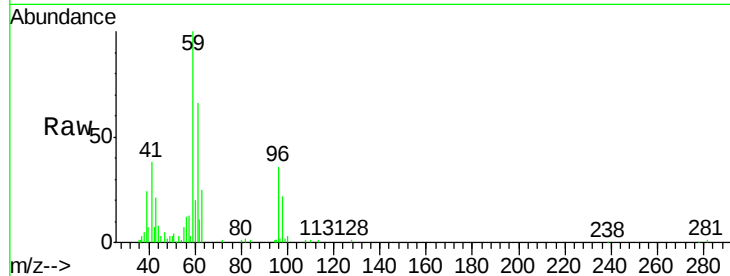
tert-Butyl alcohol
 Concen: 0.69 ppbv
 RT: 4.44 min Scan# 1042
 Delta R.T. -0.00 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
59	100		
57	12.2	8.2	12.2

Manual Integrations
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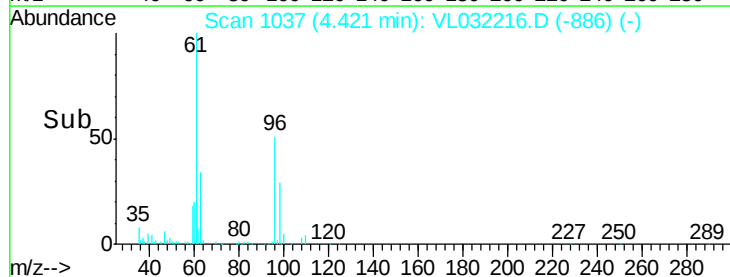
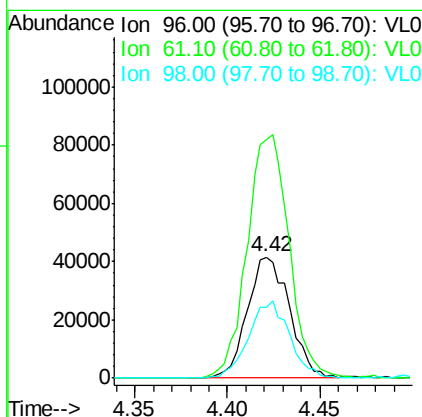
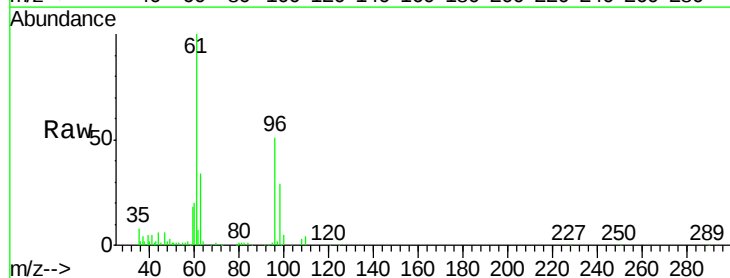
MMDadoda
 7/9/2018 10:47:39 AM

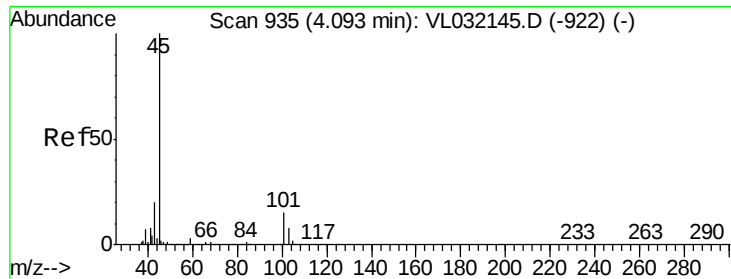


#18

1,1-Dichloroethene
 Concen: 0.93 ppbv
 RT: 4.42 min Scan# 1037
 Delta R.T. -0.01 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	197.8	154.1	231.1
98	58.2	50.3	75.5





#19

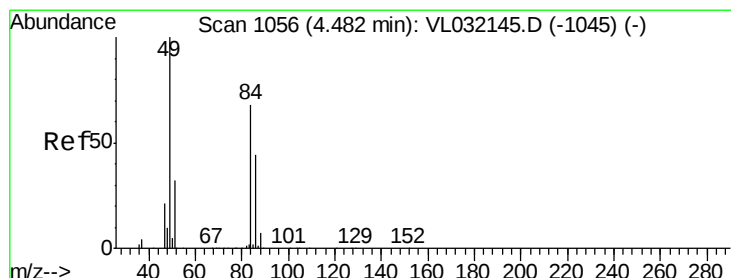
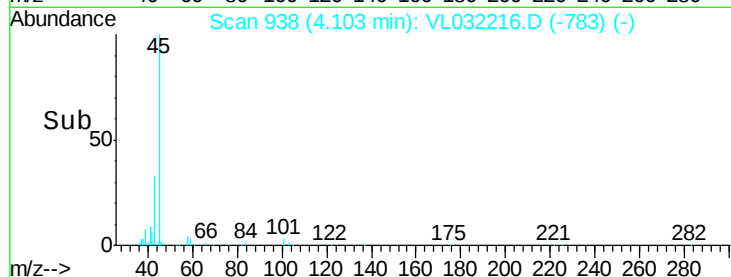
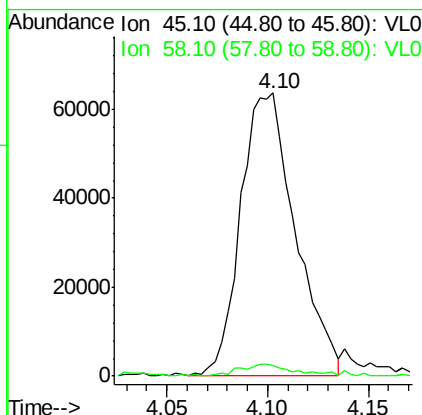
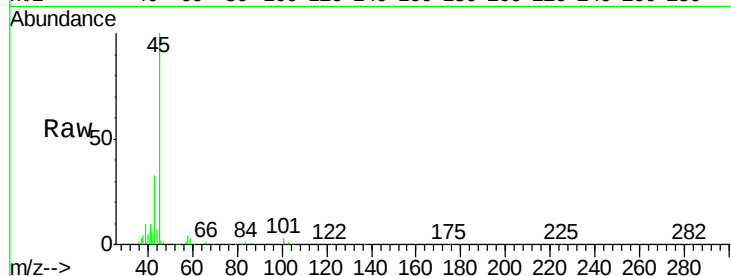
Isopropyl Alcohol
 Concen: 0.79 ppbv
 RT: 4.10 min Scan# 938
 Delta R.T. -0.00 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

Tot Ion	45	Ratio	Lower	Upper
119748	100			
58	4.9	29.4	44.0	

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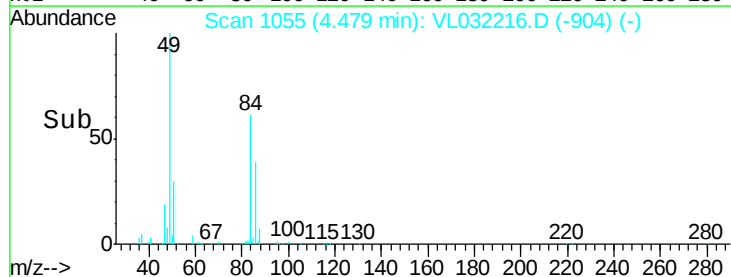
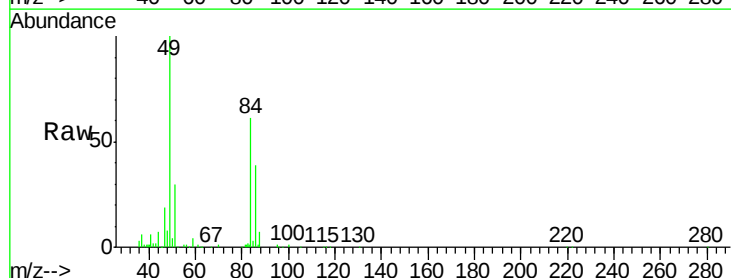
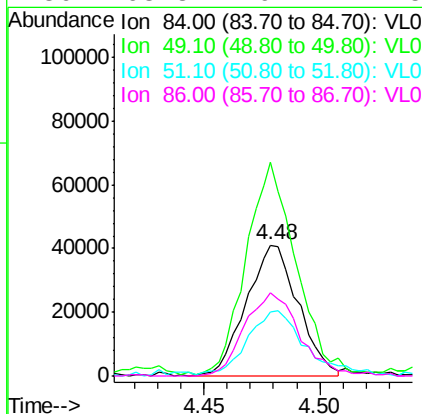
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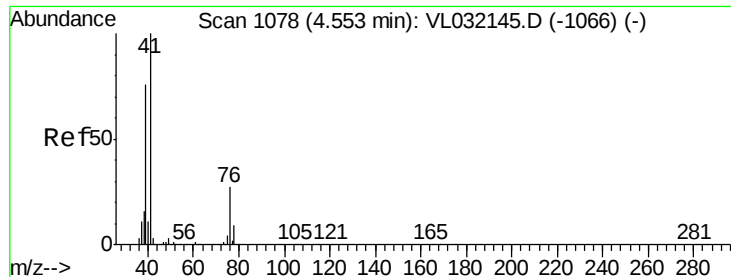


#20

Methylene Chloride
 Concen: 0.96 ppbv
 RT: 4.48 min Scan# 1055
 Delta R.T. -0.01 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion	84	Resp	Lower	Upper
63845	100			
49	160.3	119.6	179.4	
51	46.4	36.3	54.5	
86	63.3	49.7	74.5	





#21

Allvl Chloride

Concen: 0.79 ppbv

RT: 4.55 min Scan# 1077

Delta R.T. -0.01 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

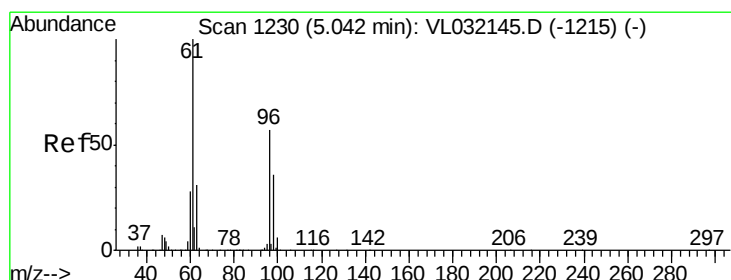
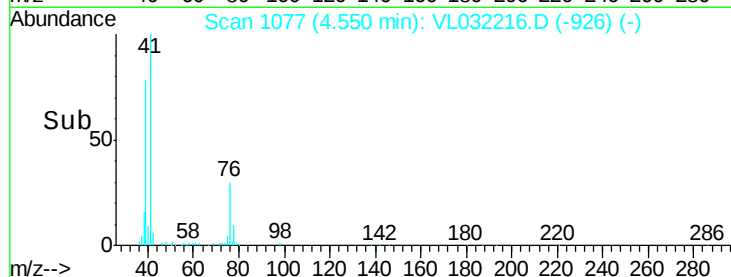
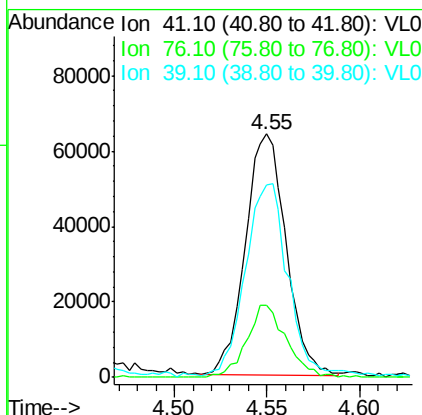
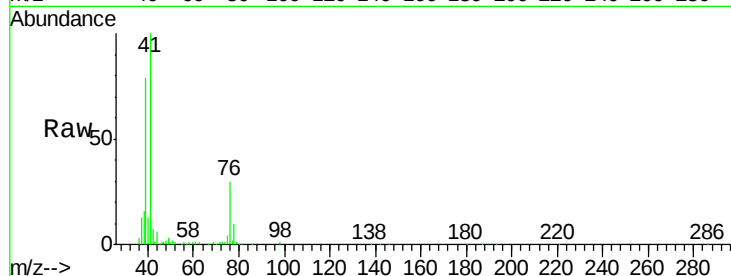
ClientSampleId :

LOQ-AIR-02-QT3-2018

Tot Ion:	41	Resp:	97591
Ion Ratio		Lower	Upper
41	100		
76	29.4	22.5	33.7
39	88.2	60.5	90.7

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#22

trans-1,2-Dichloroethene

Concen: 0.91 ppbv

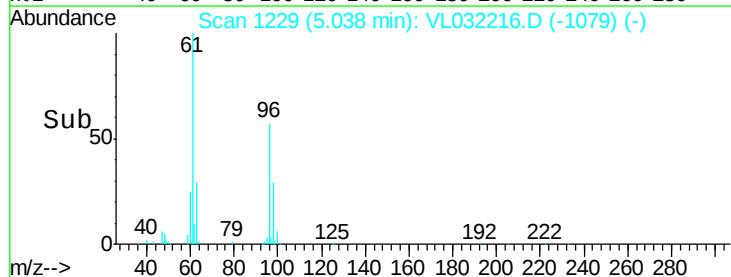
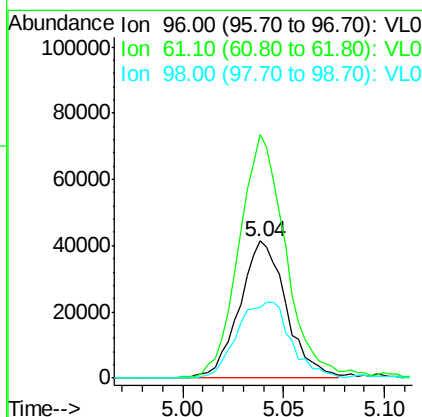
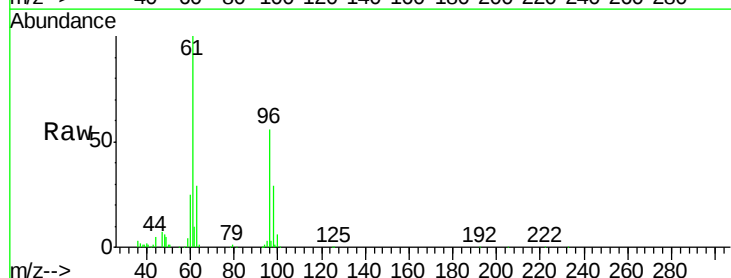
RT: 5.04 min Scan# 1229

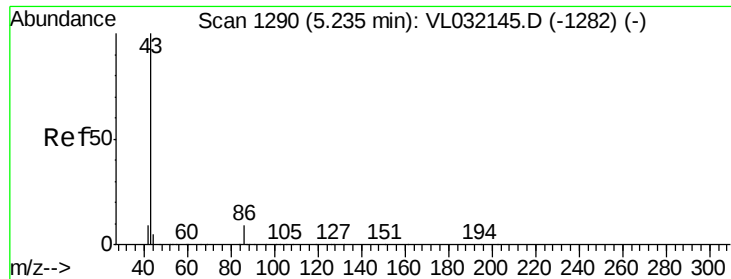
Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Tgt Ion:	96	Resp:	66919
Ion Ratio		Lower	Upper
96	100		
61	176.9	135.2	202.8
98	52.2	49.7	74.5





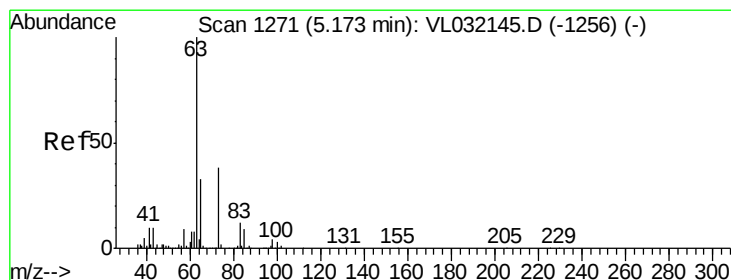
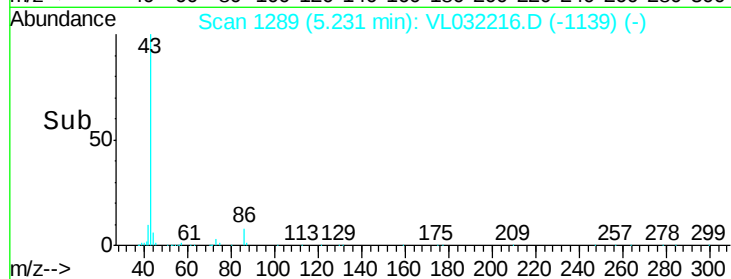
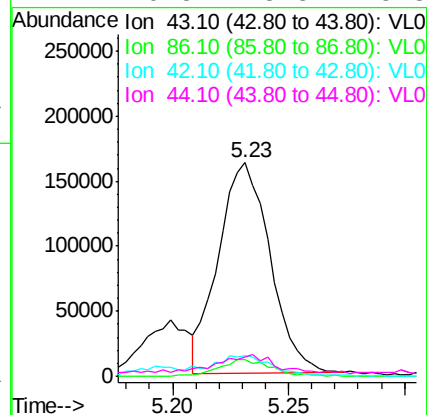
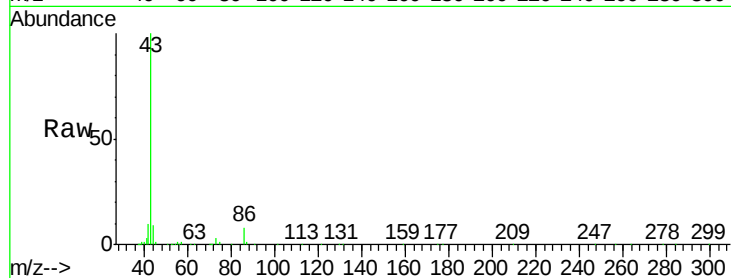
#23
 Vinyl Acetate
 Concen: 0.76 ppbv
 RT: 5.23 min Scan# 1289
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		251274		
86	8.1	6.2	9.4		
42	9.6	6.9	10.3		
44	6.8	3.8	5.8#		

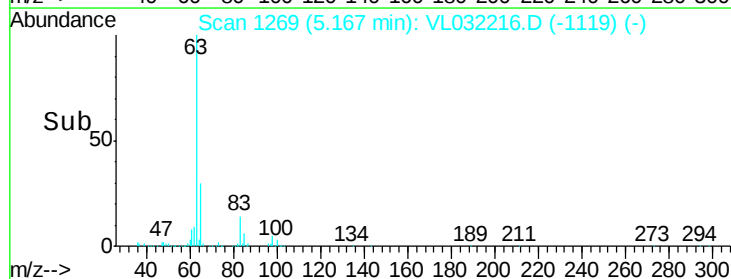
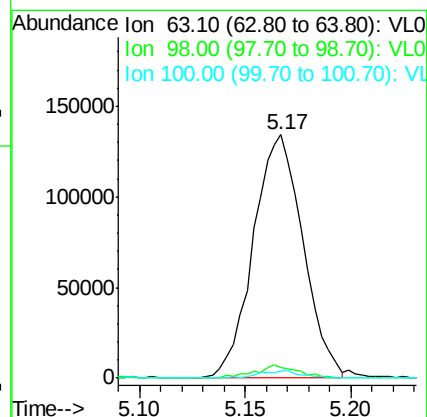
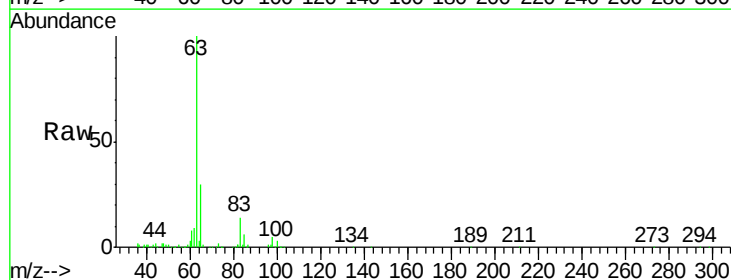
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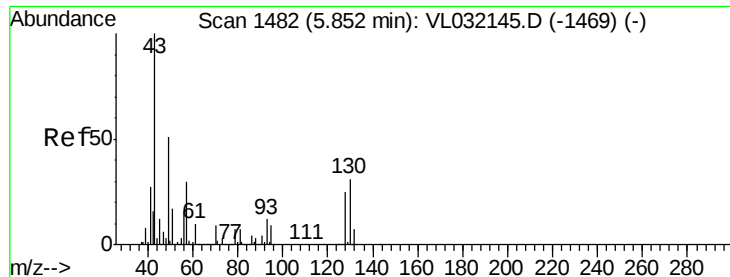
MMDadoda
 7/9/2018 10:47:39 AM



#24
 1,1-Dichloroethane
 Concen: 1.04 ppbv
 RT: 5.17 min Scan# 1269
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100		219733		
98	4.6	2.4	7.2		
100	2.9	1.7	5.0		





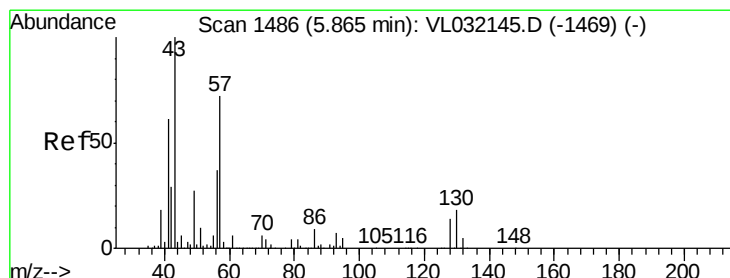
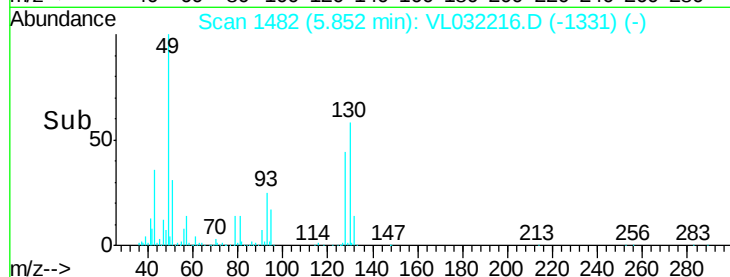
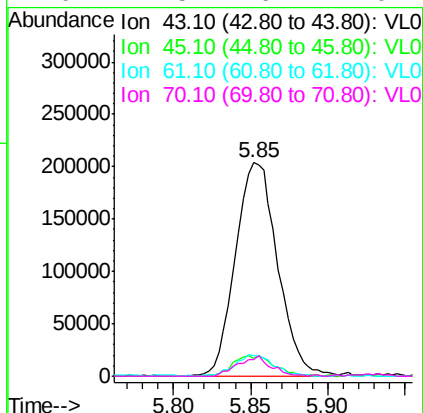
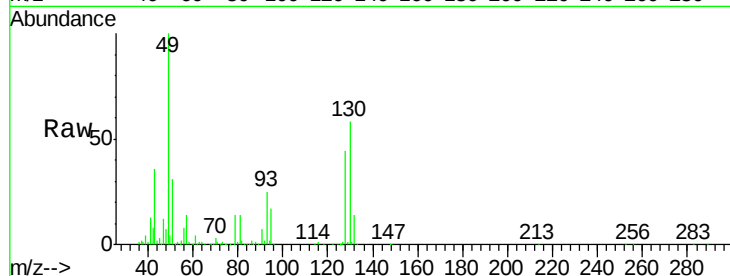
#25
Ethyl Acetate
Concen: 1.03 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. -0.01 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		387271		
45	9.5	7.8	11.8		
61	10.2	7.4	11.0		
70	7.5	6.1	9.1		

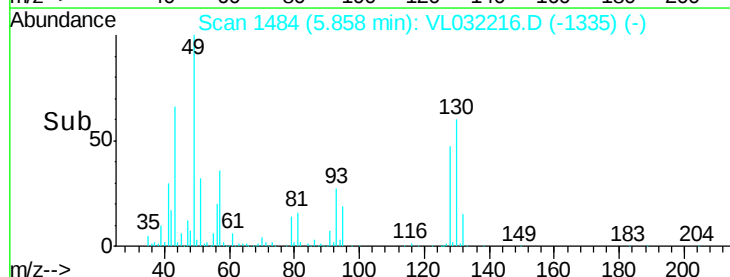
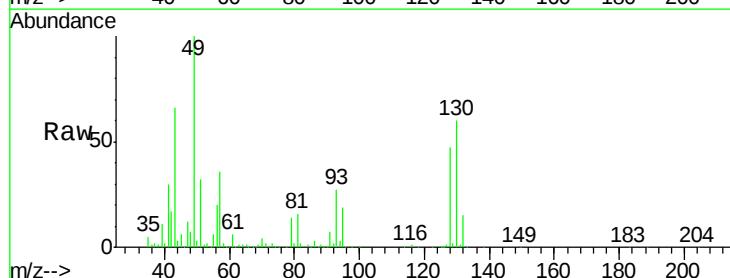
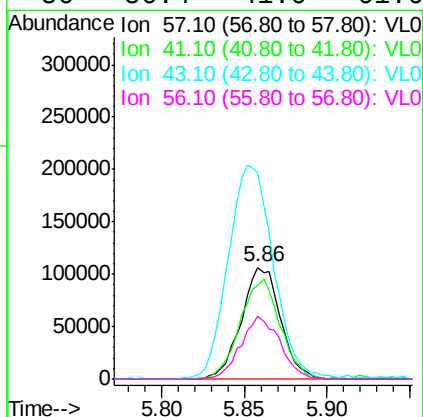
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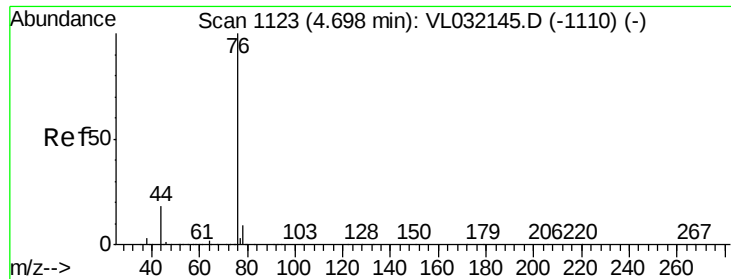
MMDadoda
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#26
Hexane
Concen: 1.01 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		175020		
41	91.7	68.6	103.0		
43	222.9	168.6	252.8		
56	56.4	41.0	61.6		





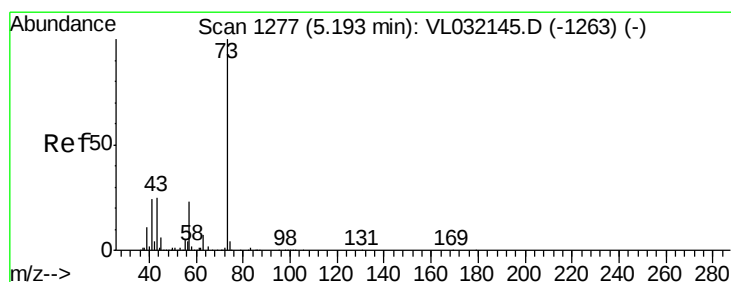
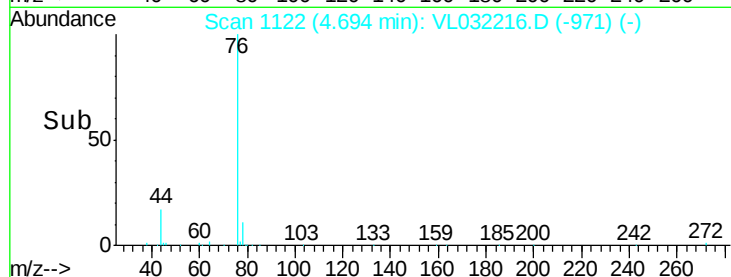
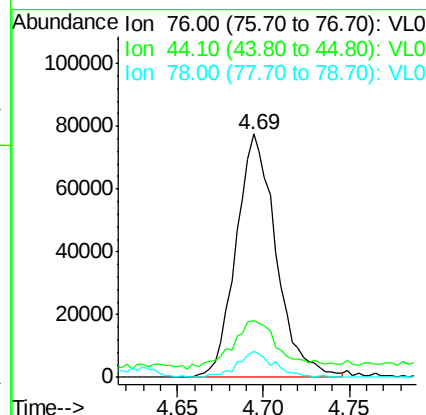
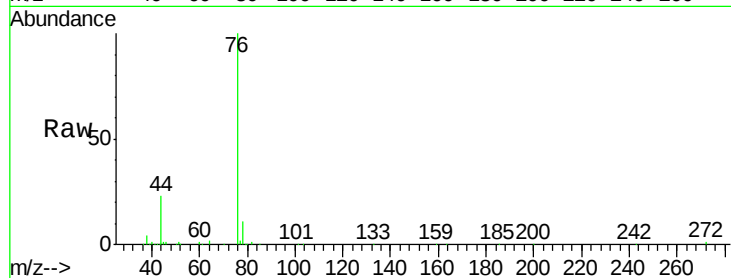
#27
Carbon Disulfide
Concen: 0.73 ppbv
RT: 4.69 min Scan# 1122
Delta R.T. -0.01 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
76	100		
44	24.1	15.1	22.7#
78	10.0	7.2	10.8

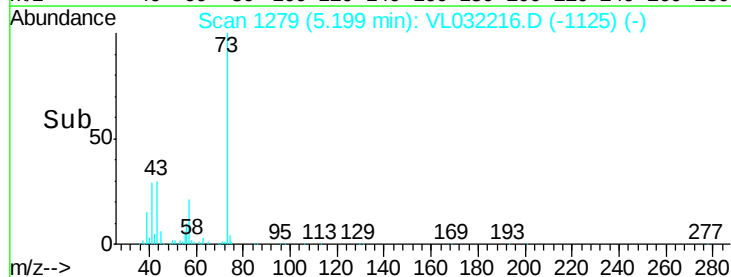
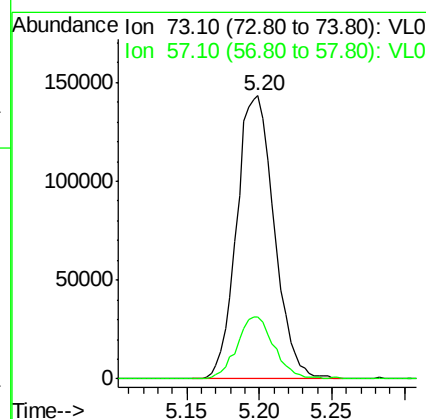
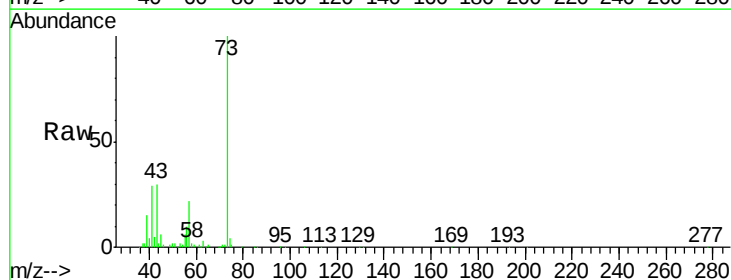
Manual Integrations
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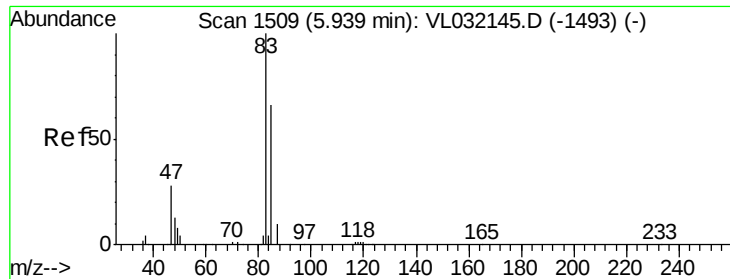
MMDadoda
7/9/2018 10:47:39 AM



#28
Methyl tert-Butyl Ether
Concen: 0.84 ppbv
RT: 5.20 min Scan# 1279
Delta R.T. -0.00 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.8	18.6	27.8





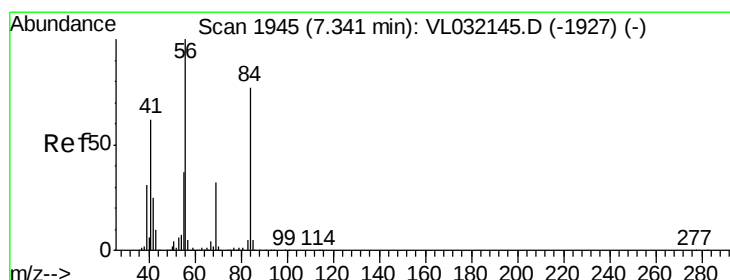
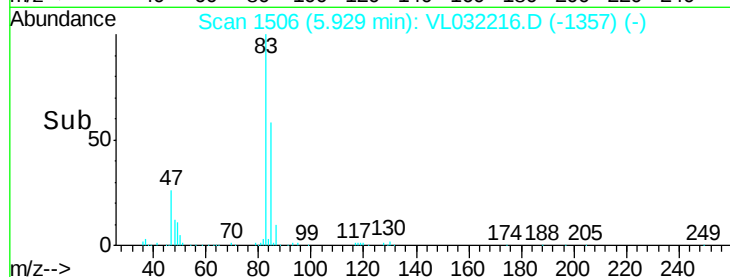
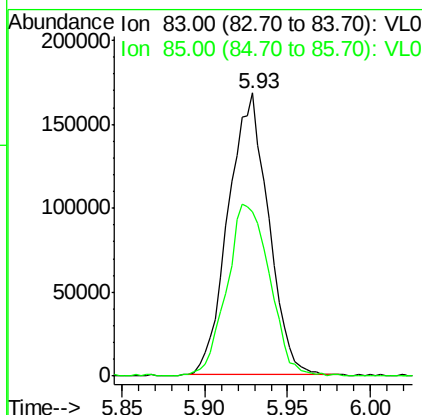
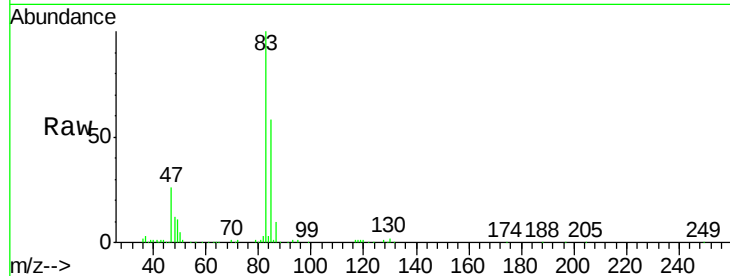
#29
Chloroform
Concen: 1.12 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

Tot Ion	83	Resp	281132
Ion Ratio	Lower	Upper	
83	100		
85	58.2	51.6	77.4

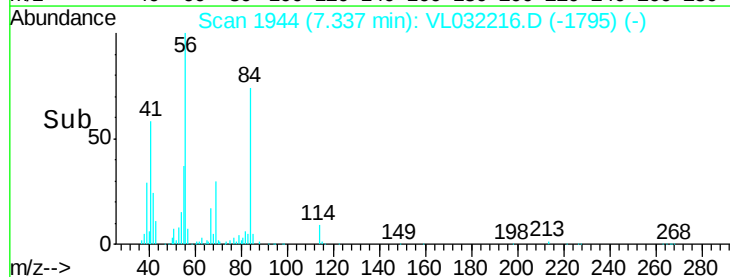
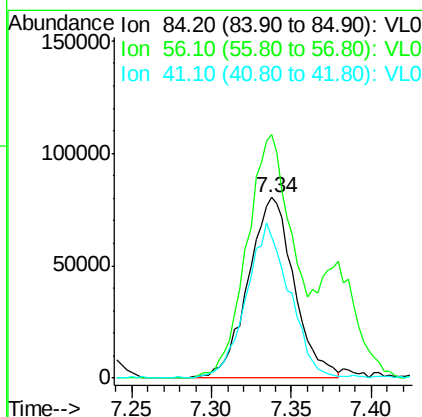
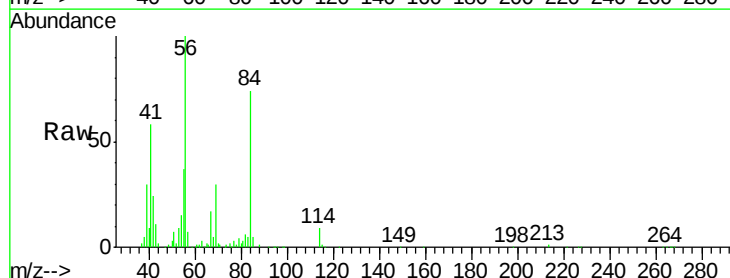
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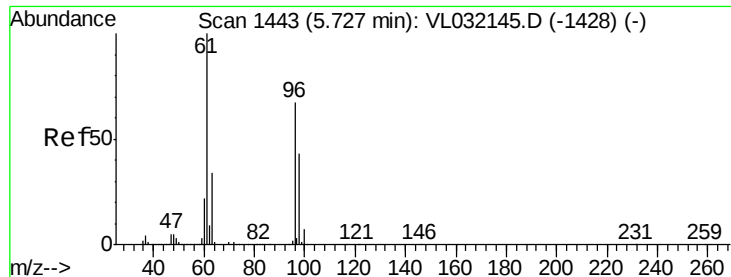
MMDadoda
7/9/2018 10:47:39 AM



#30
Cyclohexane
Concen: 0.97 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion	84	Resp	158002
Ion Ratio	Lower	Upper	
84	100		
56	190.1	109.1	163.7#
41	81.5	64.6	96.8





#31

cis-1,2-Dichloroethene

Concen: 0.91 ppbv

RT: 5.72 min Scan# 1441

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

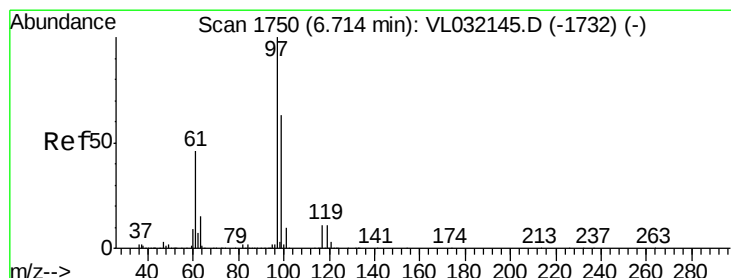
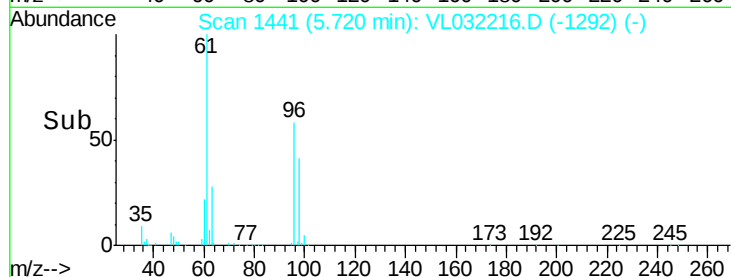
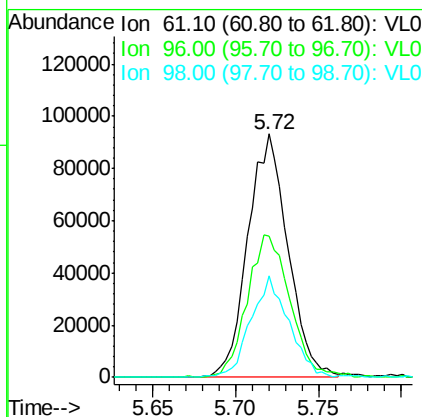
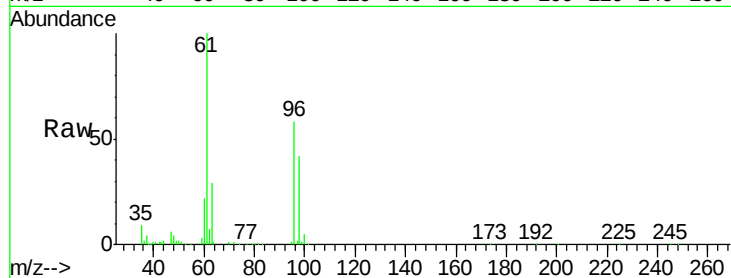
ClientSampleId :

LOQ-AIR-02-QT3-2018

Tot Ion:	61	Resp:	156582
Ion Ratio	Lower	Upper	
61	100		
96	57.2	54.2	81.4
98	41.5	34.6	52.0

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#32

1,1,1-Trichloroethane

Concen: 1.13 ppbv

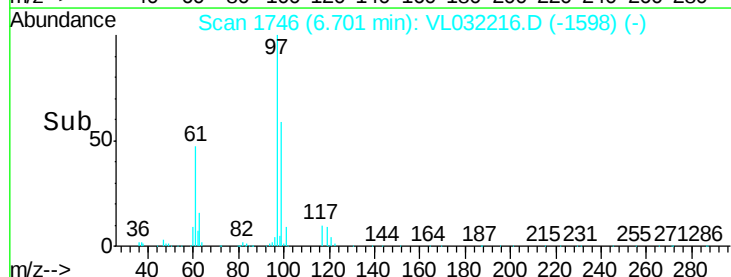
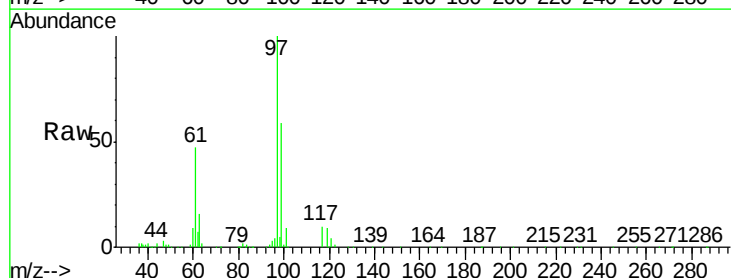
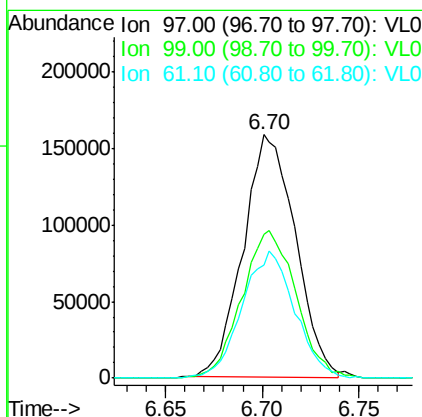
RT: 6.70 min Scan# 1746

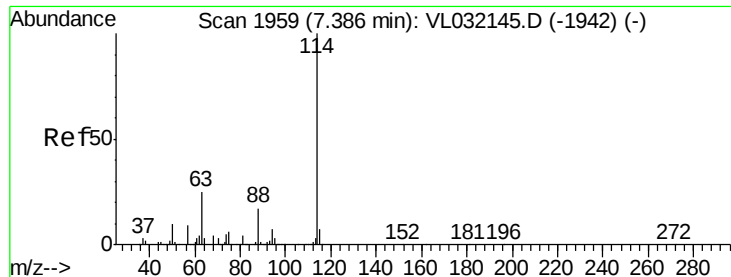
Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Tgt Ion:	97	Resp:	298903
Ion Ratio	Lower	Upper	
97	100		
99	62.9	51.3	76.9
61	52.7	38.4	57.6





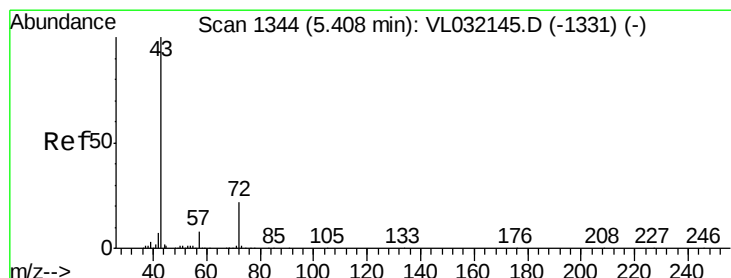
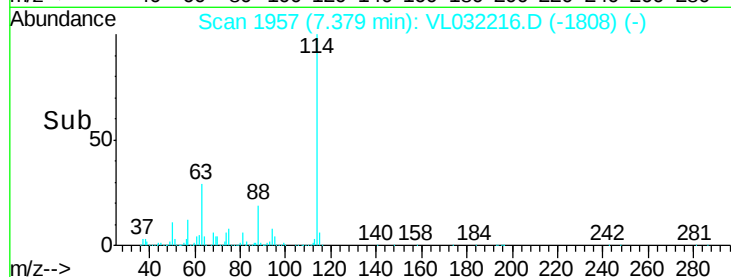
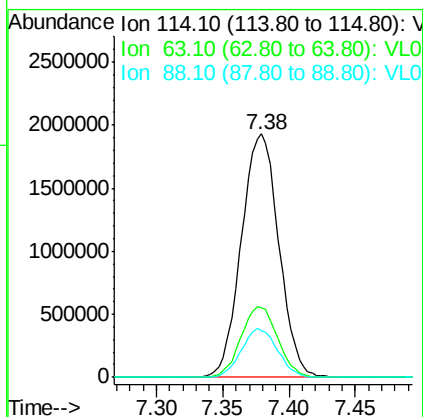
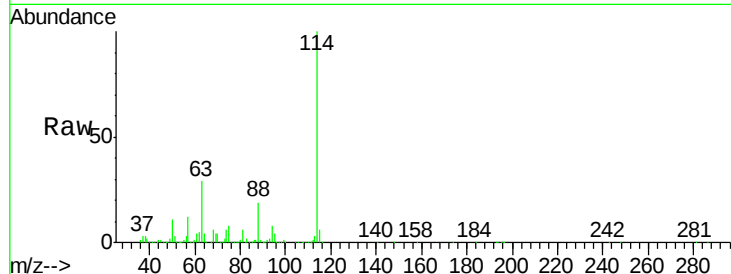
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1957
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.5	19.1	28.7
88	19.4	13.9	20.9

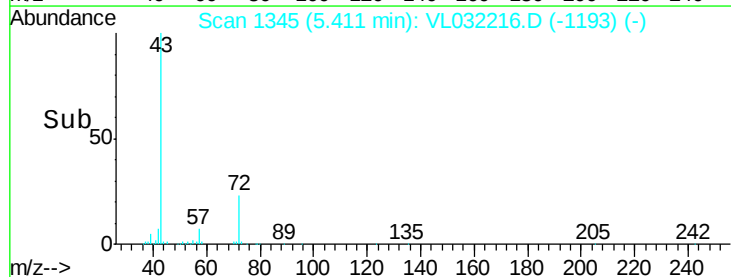
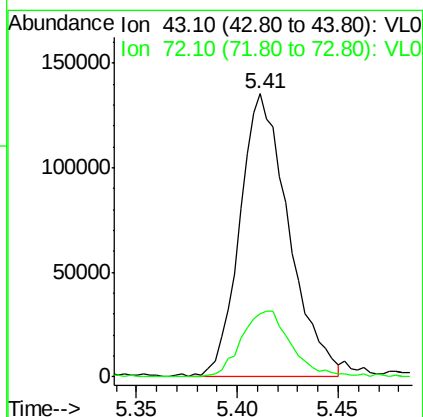
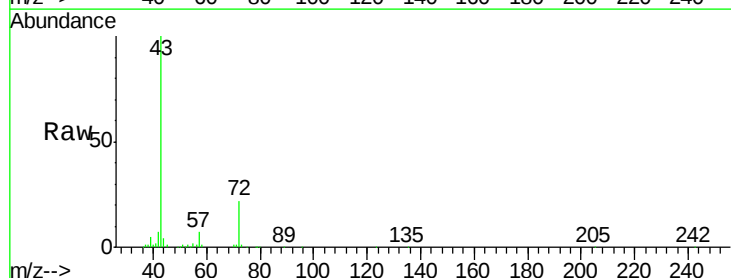
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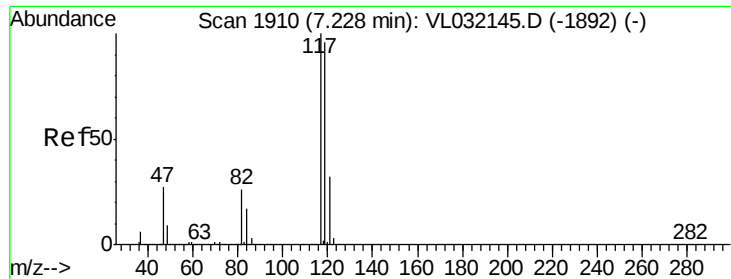
MMDadoda
 7/9/2018 10:47:39 AM



#34
 2-Butanone
 Concen: 0.95 ppbv
 RT: 5.41 min Scan# 1345
 Delta R.T. -0.01 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.7	18.4	27.6





#35

Carbon Tetrachloride

Concen: 1.13 ppbv

RT: 7.22 min Scan# 1908

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

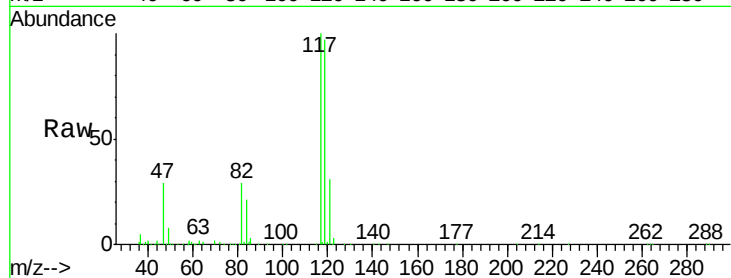
ClientSampleId :

LOQ-AIR-02-QT3-2018

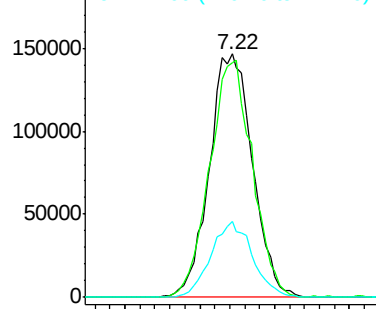
Tot Ion:	117	Resp:	294354
Ion Ratio	Lower	Upper	
117	100		
119	96.6	74.8	112.2
121	31.0	24.0	36.0

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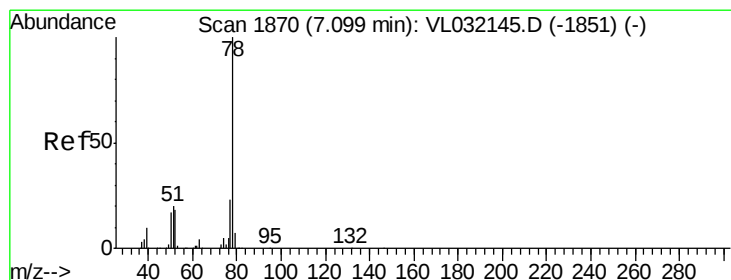
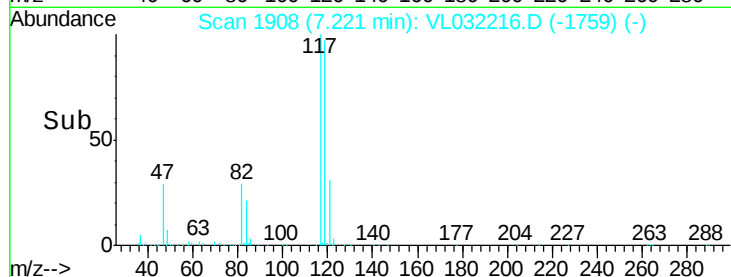
MMDadoda
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



Time-->



#36

Benzene

Concen: 1.13 ppbv

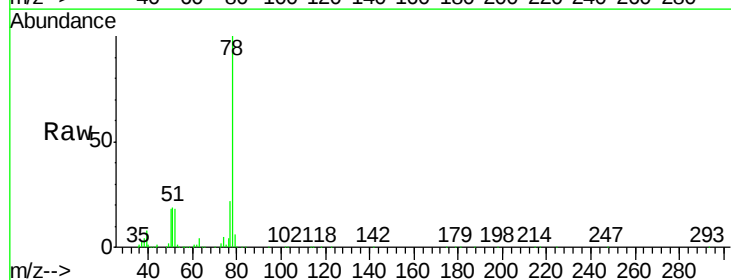
RT: 7.09 min Scan# 1868

Delta R.T. -0.02 min

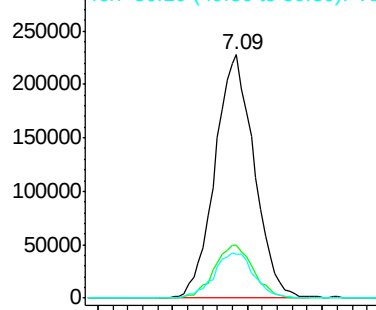
Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

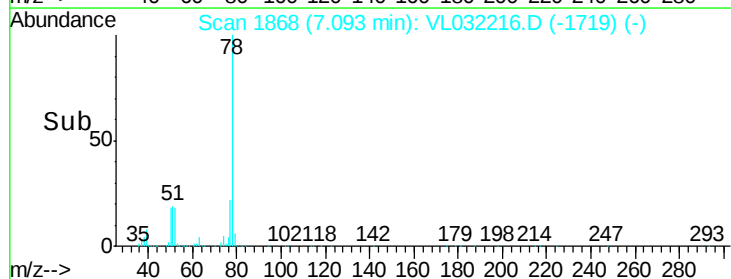
Tgt Ion:	78	Resp:	415223
Ion Ratio	Lower	Upper	
78	100		
77	21.8	17.7	26.5
50	18.1	14.0	21.0

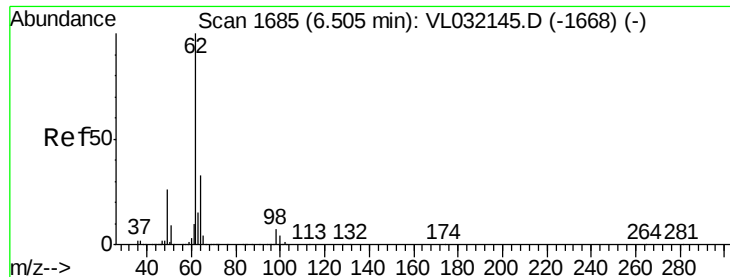


Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



Time-->





#37

1,2-Dichloroethane

Concen: 1.35 ppbv

RT: 6.49 min Scan# 1681

Delta R.T. -0.03 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

Tot Ion: 62 Resp: 247062

Ion Ratio Lower Upper

62 100

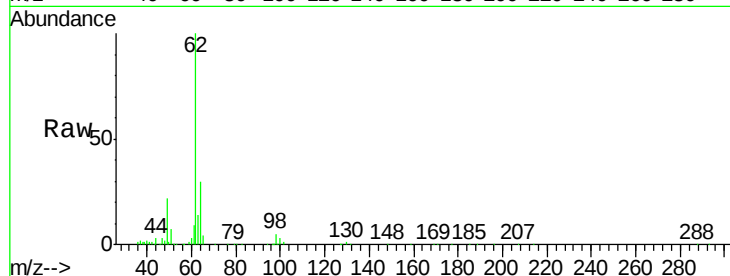
98 5.8 5.8 8.6

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.49

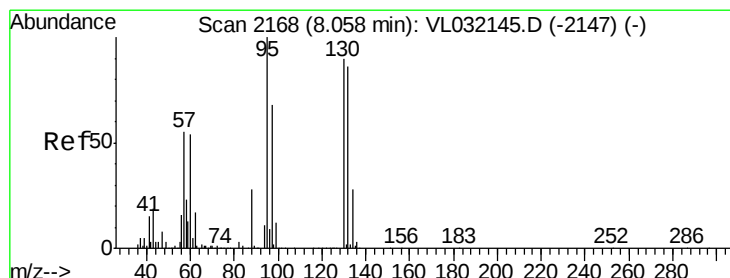
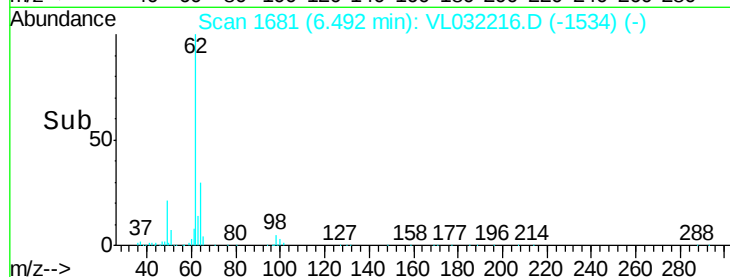
150000

100000

50000

0

Time-->



#38

Trichloroethene

Concen: 0.90 ppbv

RT: 8.05 min Scan# 2165

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Tgt Ion:130 Resp: 128353

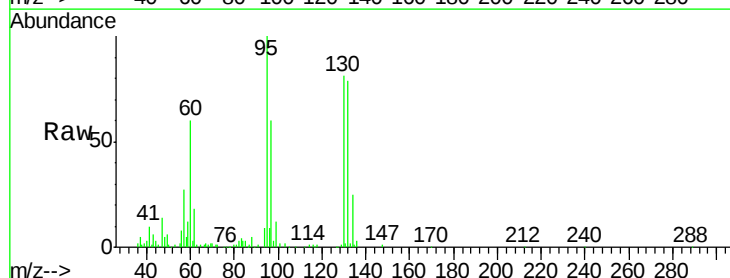
Ion Ratio Lower Upper

130 100

95 122.6 88.1 132.1

132 96.6 74.6 112.0

97 74.2 58.6 88.0



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

120000

100000

80000

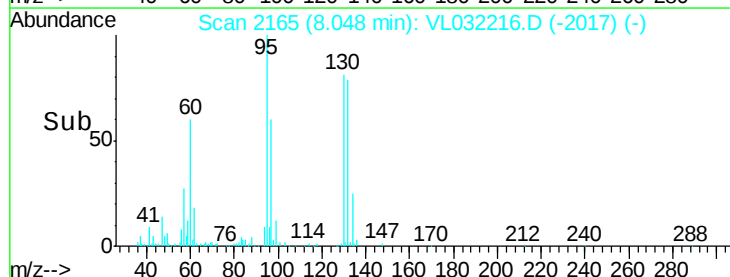
60000

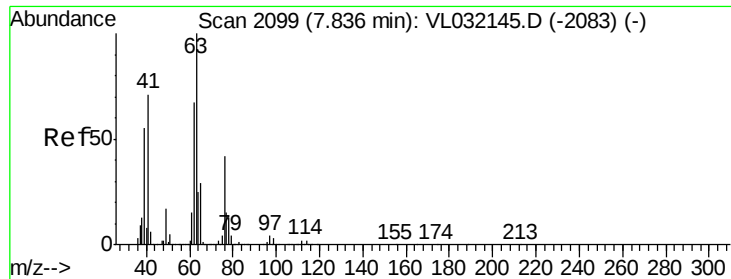
40000

20000

0

Time-->





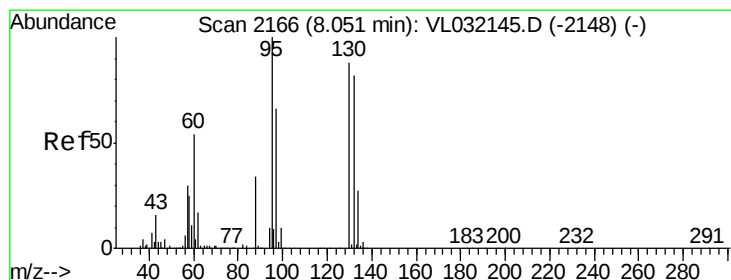
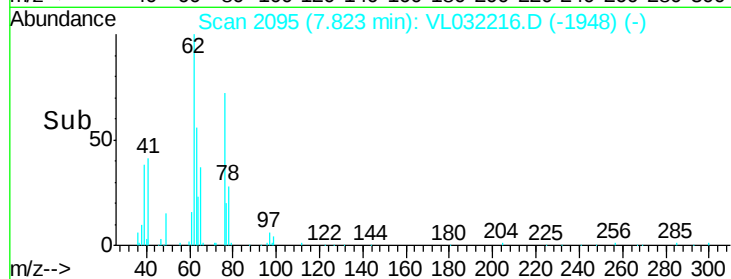
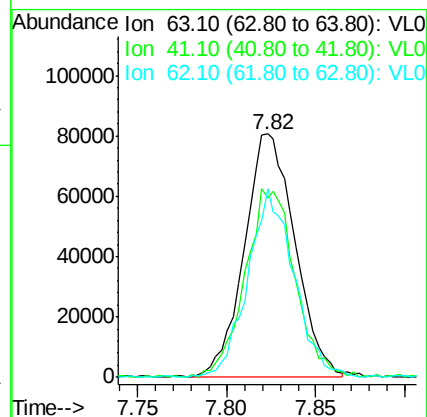
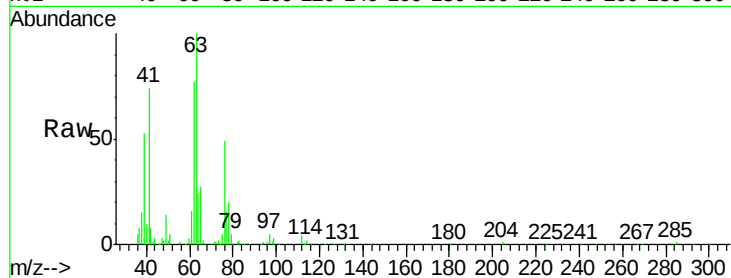
#39
 1,2-Dichloropropane
 Concen: 1.11 ppbv
 RT: 7.82 min Scan# 2095
 Delta R.T. -0.03 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
63	100		
41	72.4	53.3	79.9
62	76.7	54.8	82.2

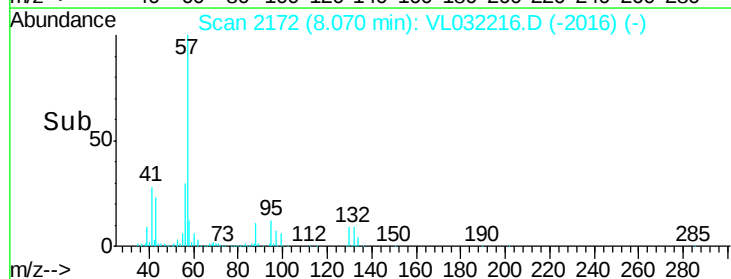
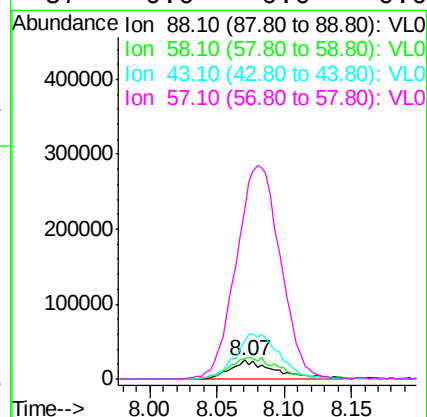
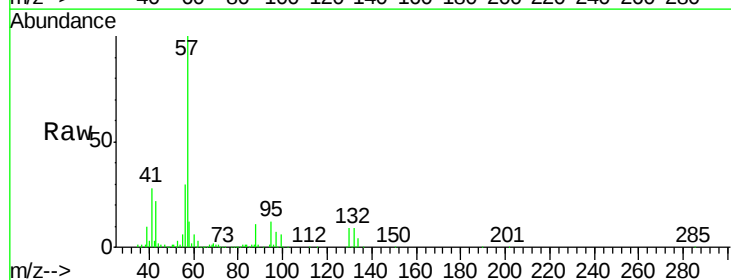
Manual Integrations
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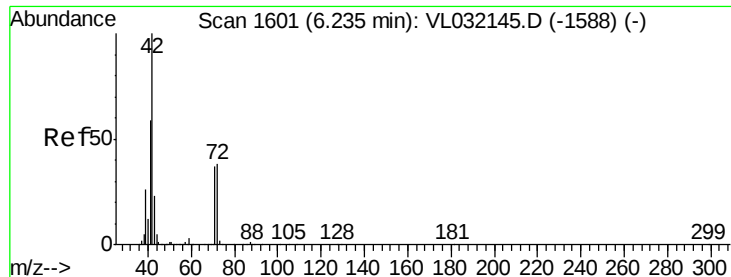
MMDadoda
 7/9/2018 10:47:39 AM



#40
 1,4-Dioxane
 Concen: 1.02 ppbv m
 RT: 8.07 min Scan# 2172
 Delta R.T. 0.00 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	47.4	71.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





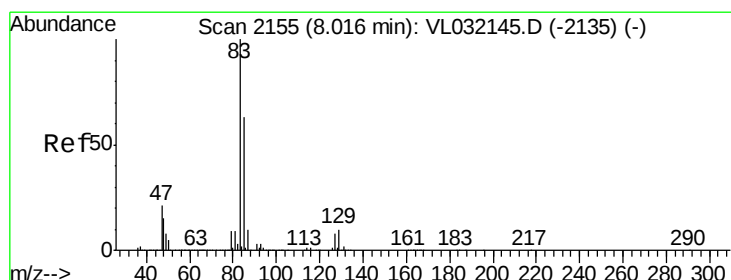
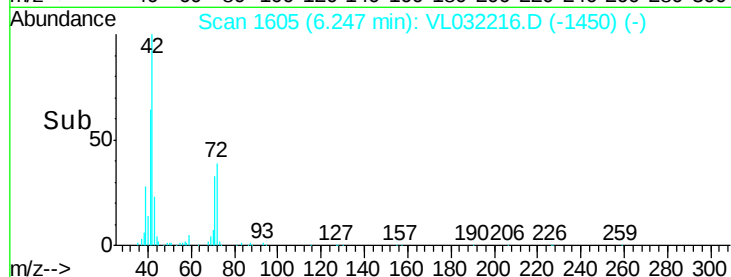
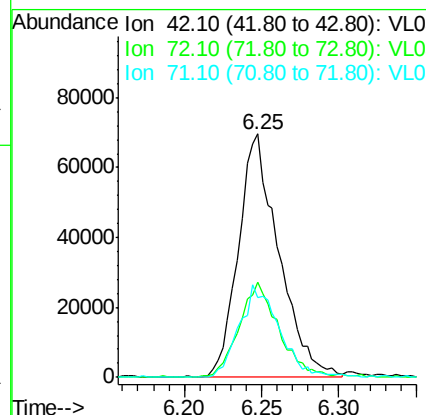
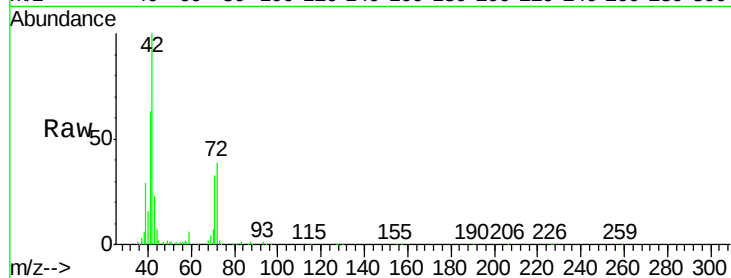
#41
Tetrahydrofuran
Concen: 0.87 ppbv
RT: 6.25 min Scan# 1605
Delta R.T. -0.00 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.1	31.1	46.7
71	37.9	29.5	44.3

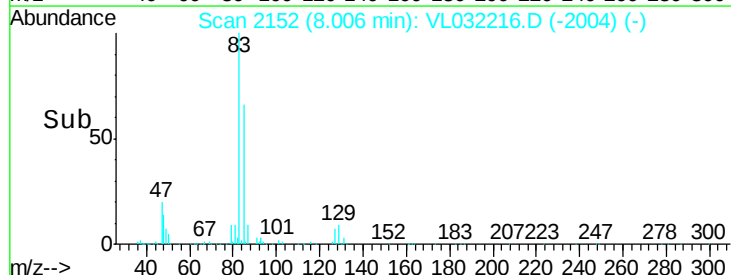
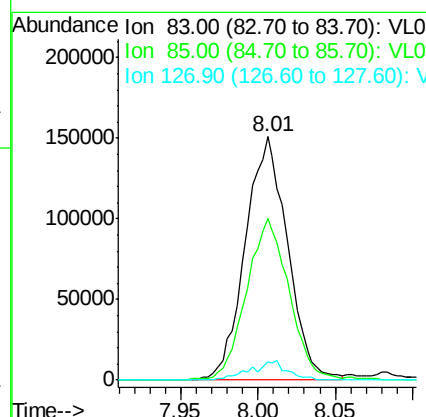
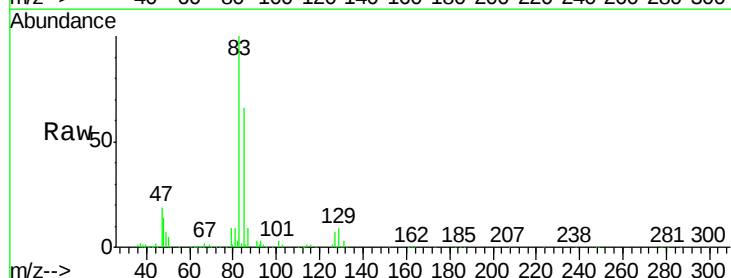
Manual Integrations
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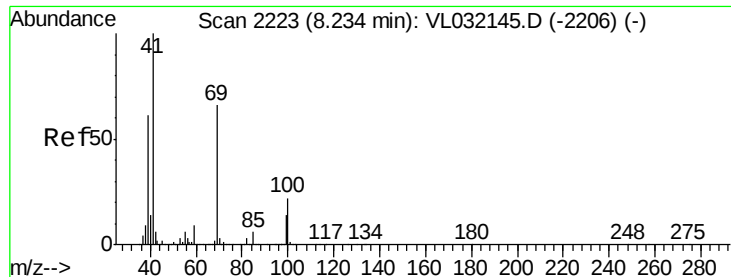
MMDadoda
7/9/2018 10:47:39 AM



#42
Bromodichloromethane
Concen: 0.99 ppbv
RT: 8.01 min Scan# 2152
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	52.6	79.0
127	7.4	6.5	9.7





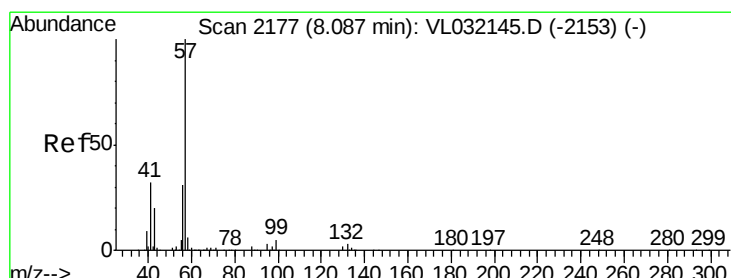
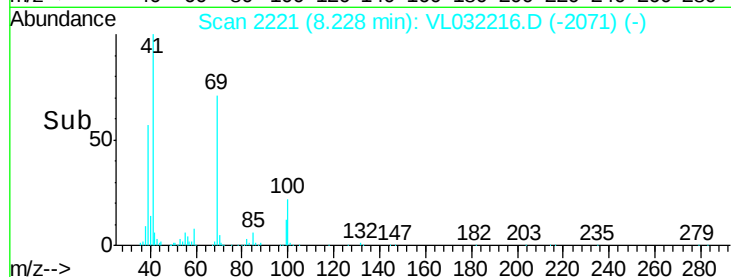
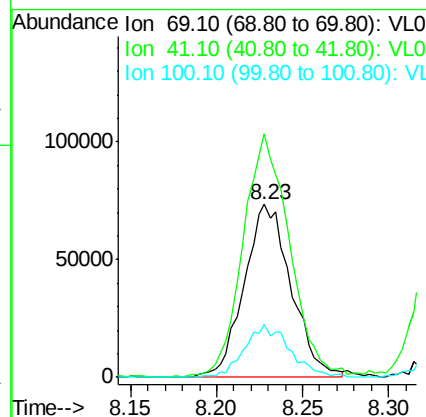
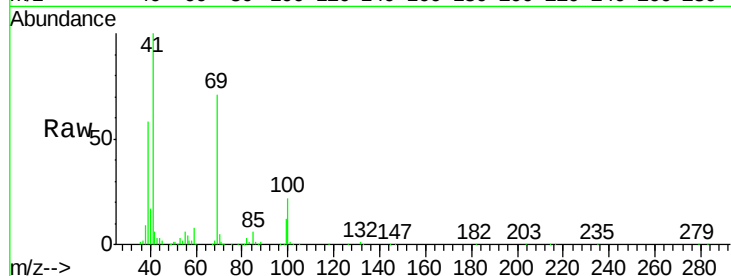
#43
Methvl Methacrilate
Concen: 0.91 ppbv
RT: 8.23 min Scan# 2221
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
69	100		
41	140.0	118.2	177.4
100	29.7	27.4	41.2

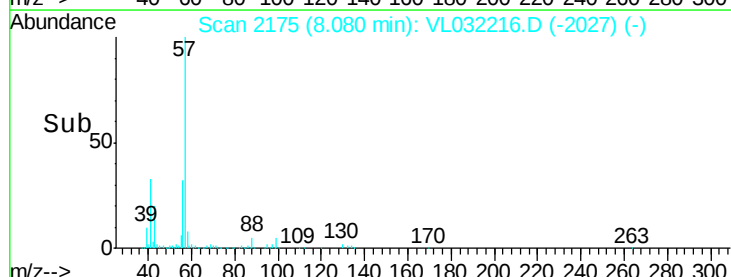
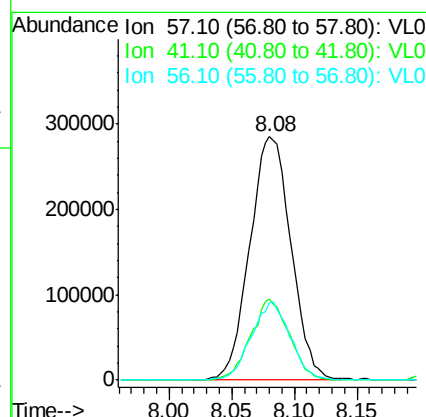
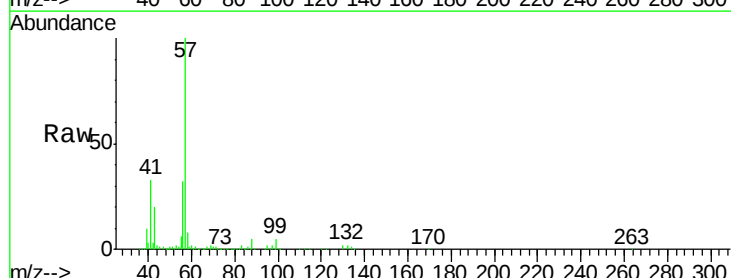
Manual Integrations
APPROVED

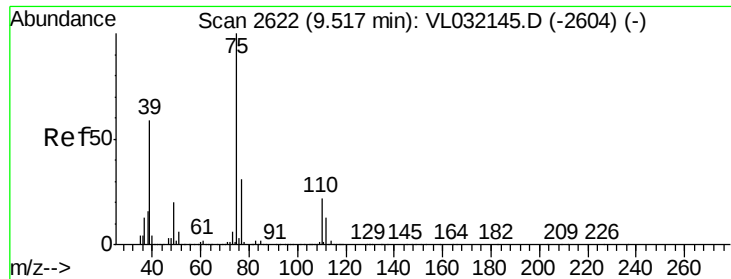
MMDadoda
7/9/2018 10:47:39 AM



#44
2,2,4-Trimethylpentane
Concen: 1.02 ppbv
RT: 8.08 min Scan# 2175
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Lower	Upper
57	100		
41	31.1	24.3	36.5
56	30.5	25.1	37.7





#45

t-1,3-Dichloropropene

Concen: 0.73 ppbv

RT: 9.51 min Scan# 2619

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

Tot Ion: 75 Resp: 137094

Ion Ratio Lower Upper

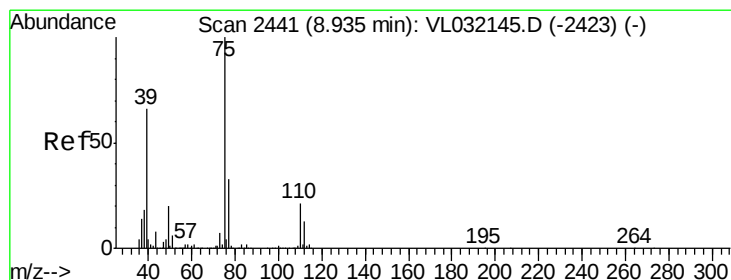
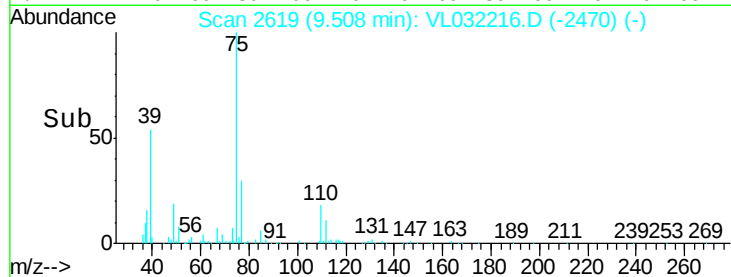
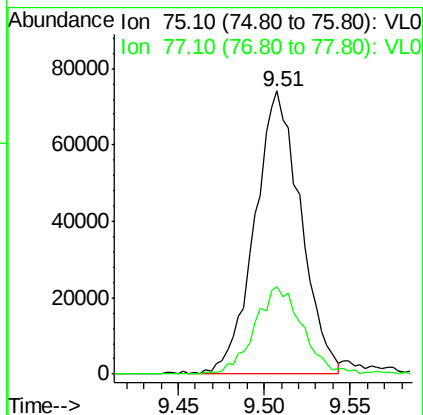
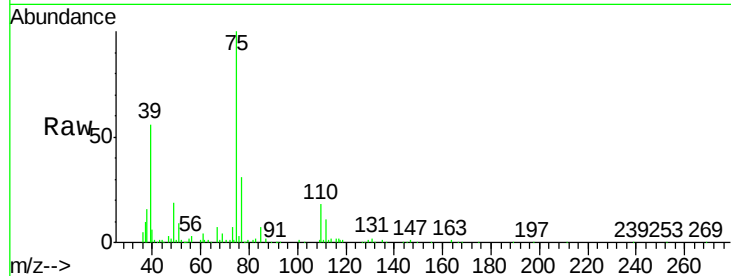
75 100

77 31.3 25.6 38.4

Manual Integrations
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MMDadoda

7/9/2018 10:47:39 AM



#46

cis-1,3-Dichloropropene

Concen: 0.88 ppbv

RT: 8.93 min Scan# 2439

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

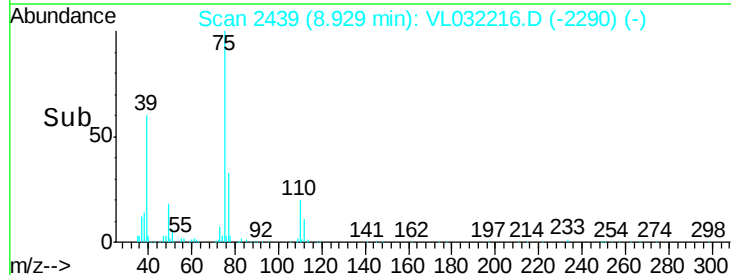
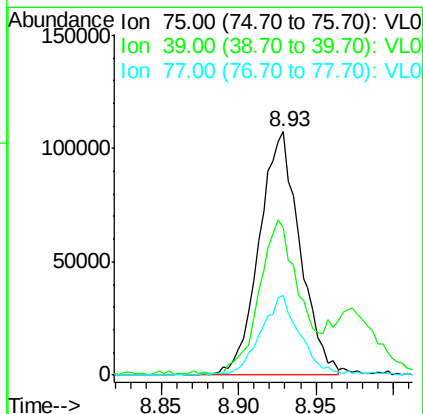
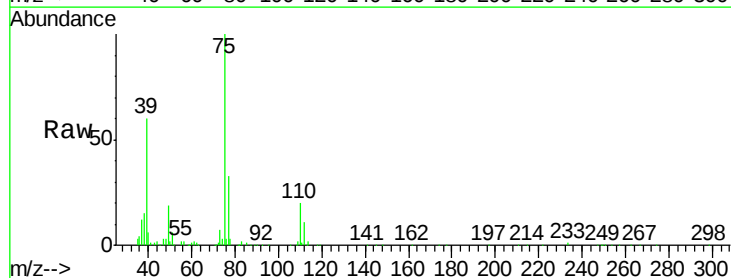
Tgt Ion: 75 Resp: 196948

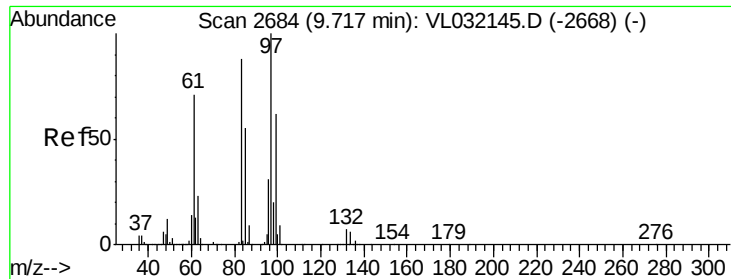
Ion Ratio Lower Upper

75 100

39 59.7 51.9 77.9

77 32.7 24.3 36.5





#47

1,1,2-Trichloroethane

Concen: 1.20 ppbv

RT: 9.71 min Scan# 2682

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

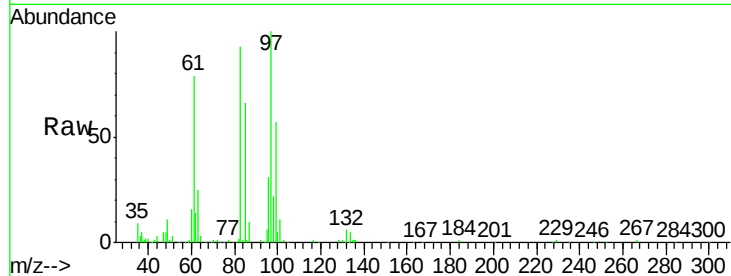
ClientSampleId :

LOQ-AIR-02-QT3-2018

Tot Ion:	97	Resp:	180964
Ion Ratio	Lower	Upper	
97	100		
83	92.3	71.0	106.4
85	64.7	44.2	66.4
99	56.5	49.2	73.8

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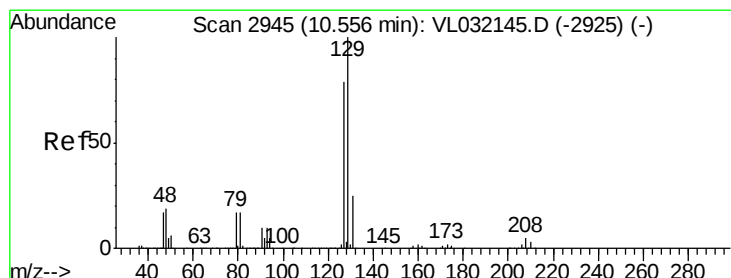
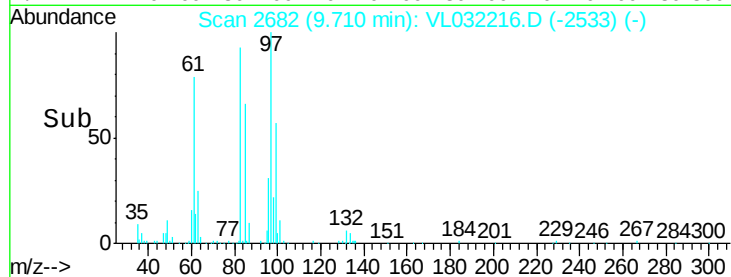
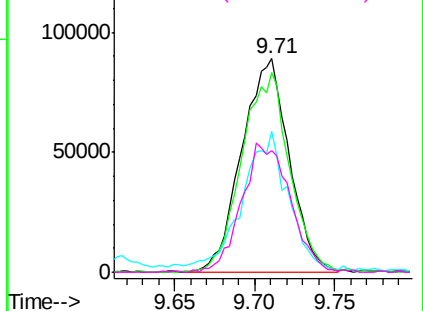


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 1.08 ppbv

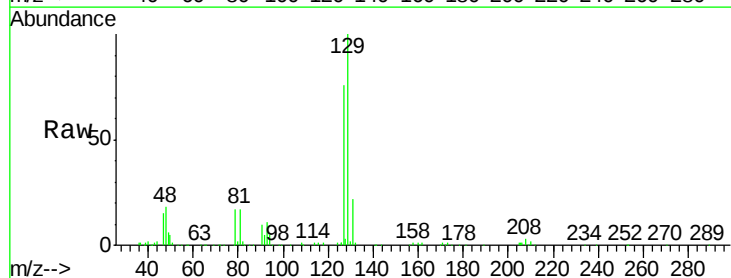
RT: 10.54 min Scan# 2941

Delta R.T. -0.03 min

Lab File: VL032216.D

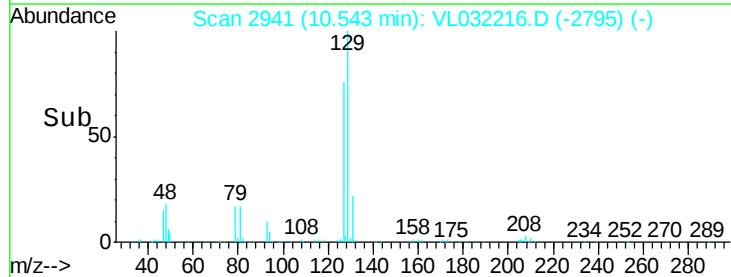
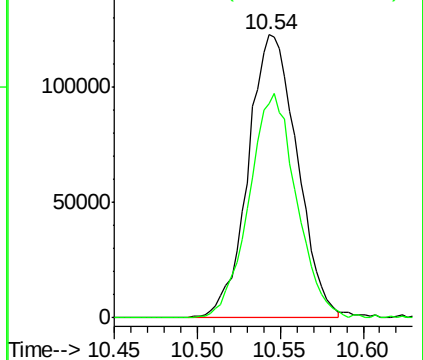
Acq: 5 Jul 2018 23:22

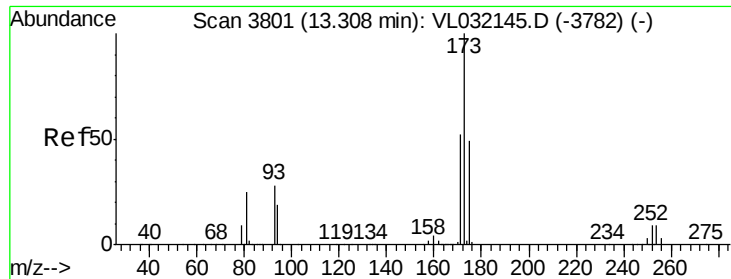
Tgt Ion:	129	Resp:	252516
Ion Ratio	Lower	Upper	
129	100		
127	77.0	39.1	117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





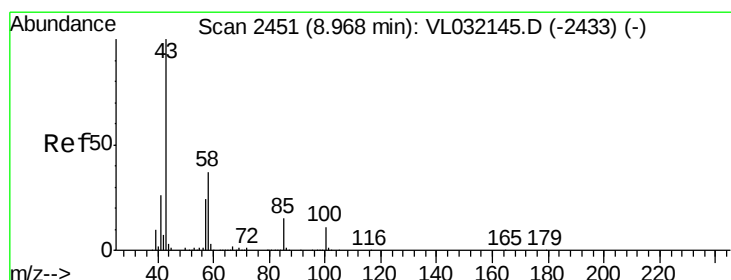
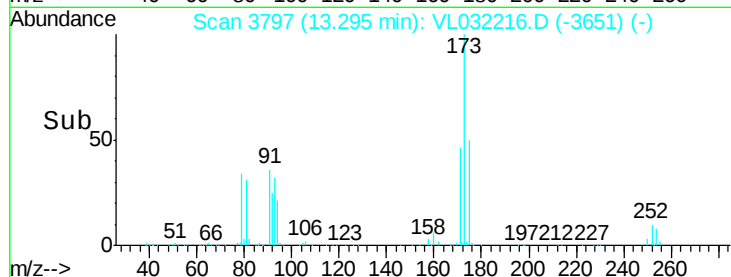
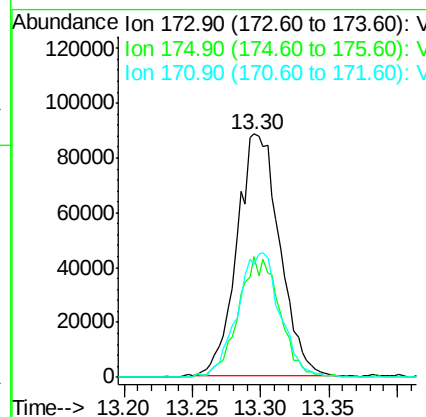
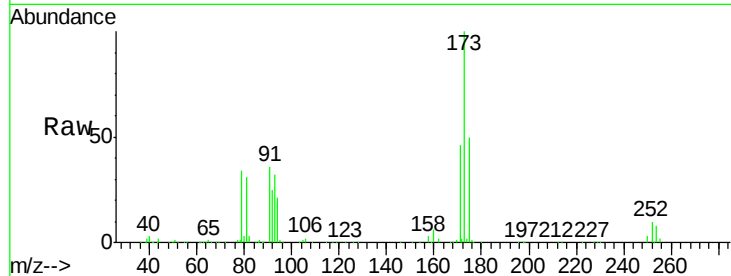
#49
Bromoform
Concen: 0.99 ppbv
RT: 13.30 min Scan# 3797
Delta R.T. -0.03 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	39.4	59.0
171	51.7	41.8	62.8

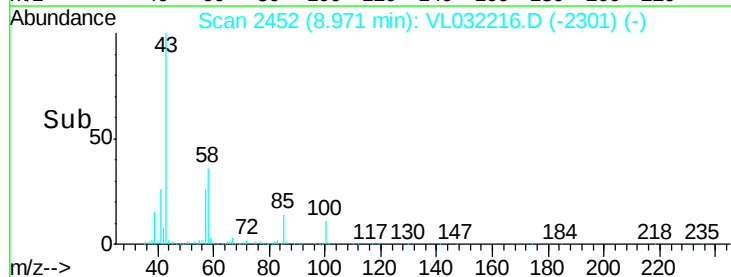
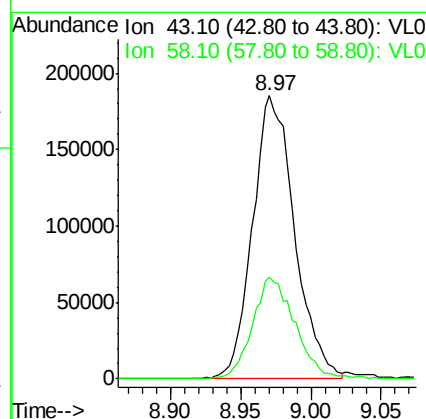
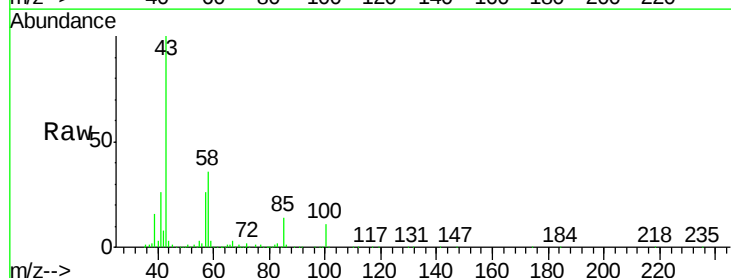
Manual Integrations
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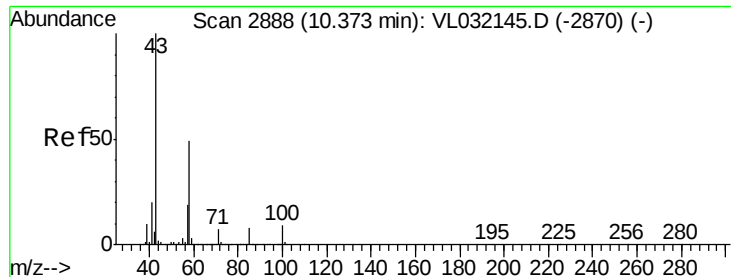
MMDadoda
7/9/2018 10:47:39 AM



#50
4-Methyl-2-Pentanone
Concen: 0.98 ppbv
RT: 8.97 min Scan# 2452
Delta R.T. -0.01 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.5	29.8	44.6





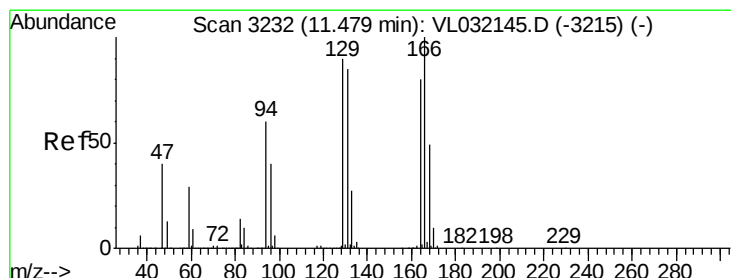
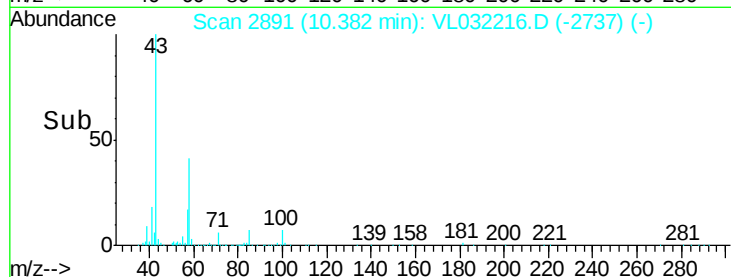
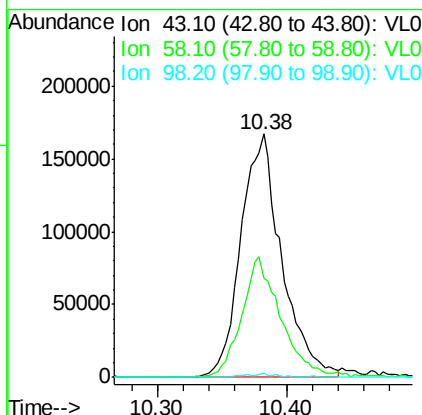
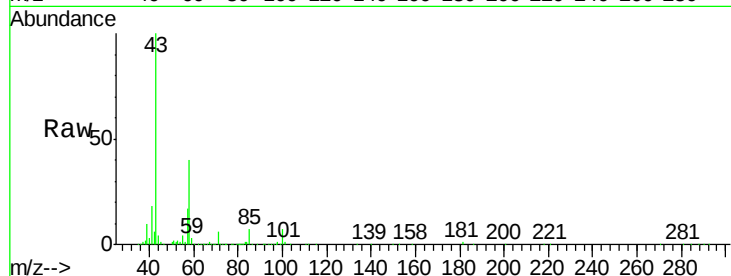
#51
2-Hexanone
Concen: 1.12 ppbv
RT: 10.38 min Scan# 2891
Delta R.T. -0.00 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.3	40.6	60.8
98	1.1	0.1	0.1#

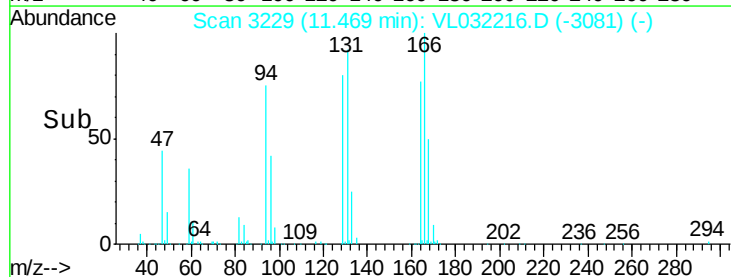
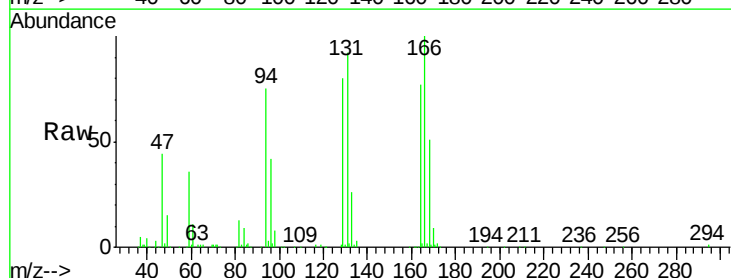
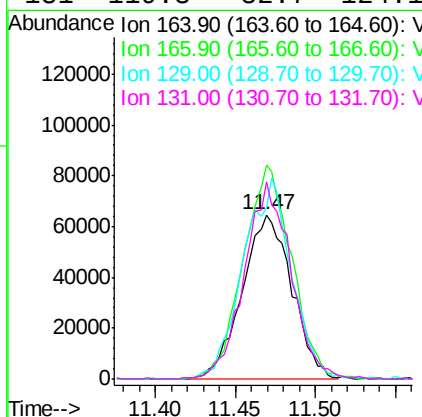
Manual Integrations
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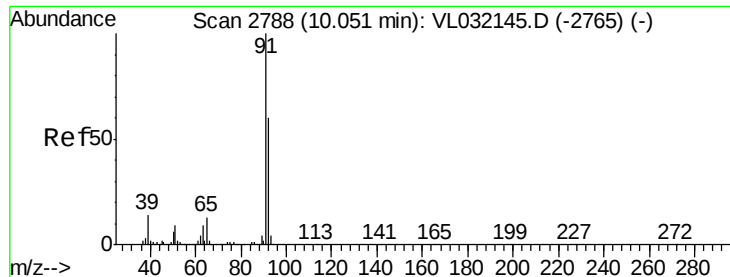
MMDadoda
7/9/2018 10:47:39 AM



#52
Tetrachloroethene
Concen: 1.03 ppbv
RT: 11.47 min Scan# 3229
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.3	100.6	151.0
129	103.5	84.0	126.0
131	119.3	82.7	124.1





#53

Toluene

Concen: 1.02 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

Tot Ion: 91 Resp: 450754

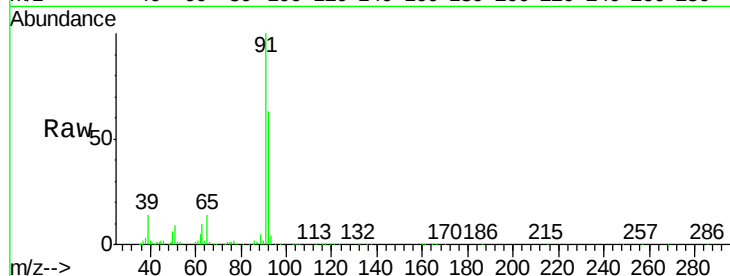
Ion Ratio Lower Upper

91 100

92 59.9 49.2 73.8

Manual Integrations
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MMDadoda
7/9/2018 10:47:39 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

10.04

250000

200000

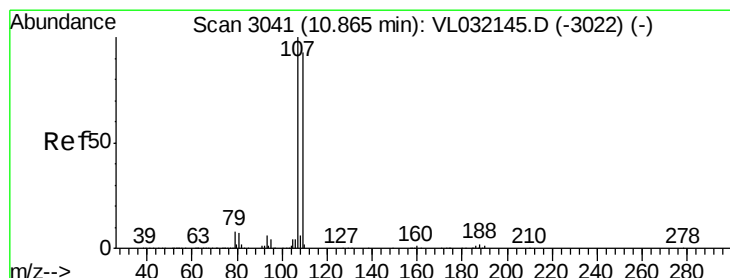
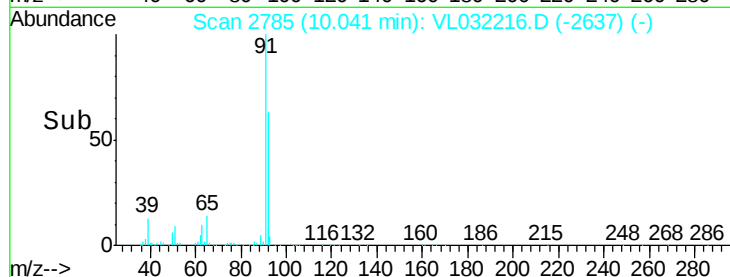
150000

100000

50000

0

Time-->



#54

1,2-Dibromoethane

Concen: 1.18 ppbv

RT: 10.85 min Scan# 3038

Delta R.T. -0.02 min

Lab File: VL032216.D

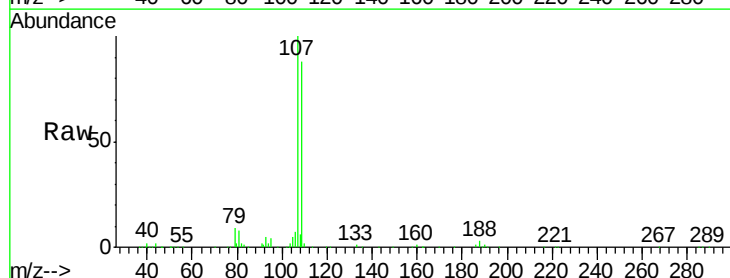
Acq: 5 Jul 2018 23:22

Tgt Ion: 107 Resp: 265785

Ion Ratio Lower Upper

107 100

109 87.6 75.0 112.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

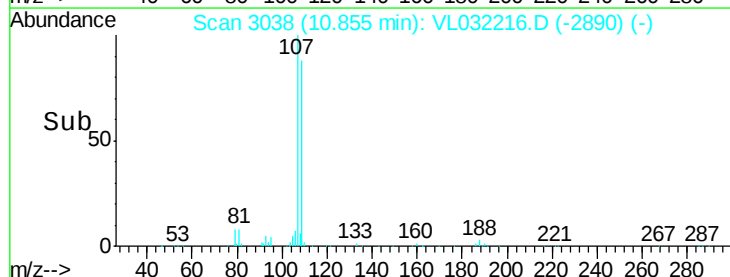
150000

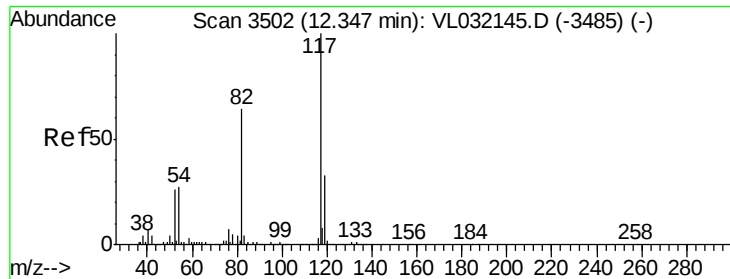
100000

50000

0

Time-->





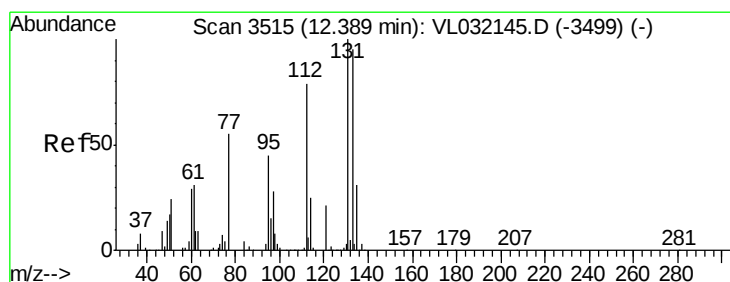
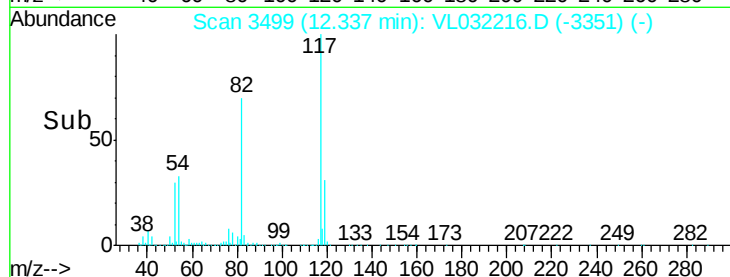
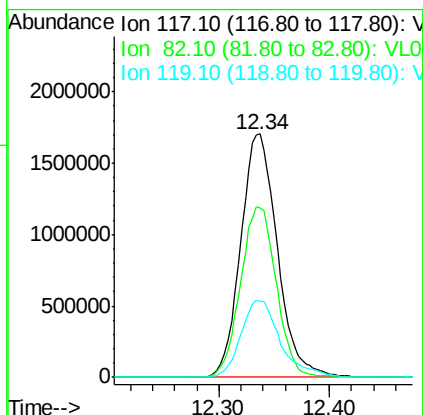
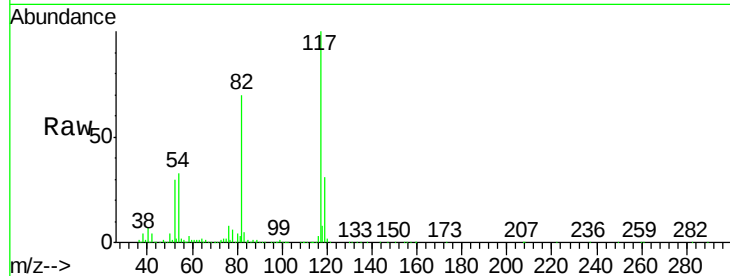
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.34 min Scan# 3499
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.7	47.8	71.8
119	34.3	43.3	64.9#

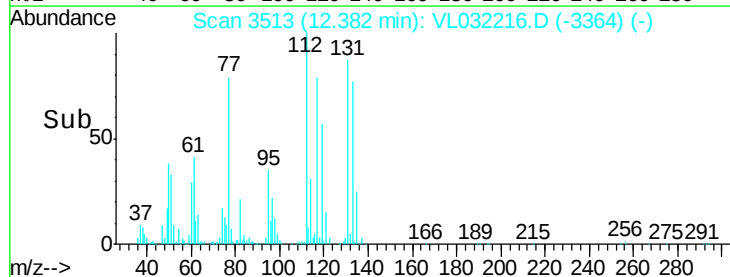
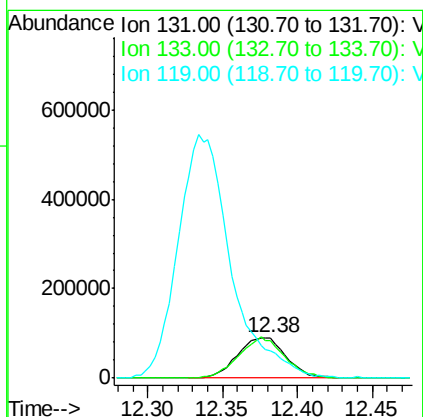
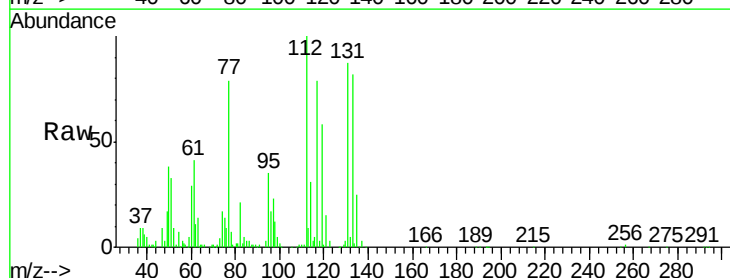
Manual Integrations
APPROVED

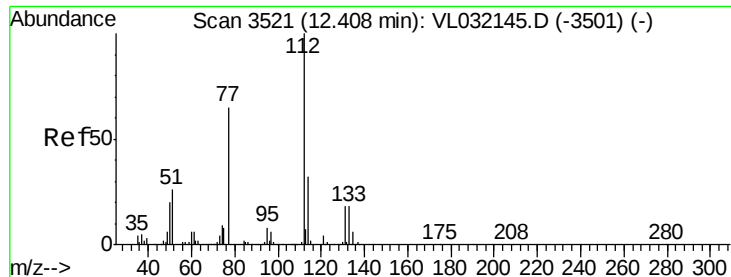
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 1.15 ppbv
RT: 12.38 min Scan# 3513
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.9	75.5	113.3
119	669.5	118.4	177.6#





#57

Chlorobenzene

Concen: 1.18 ppbv

RT: 12.39 min Scan# 3517

Delta R.T. -0.03 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

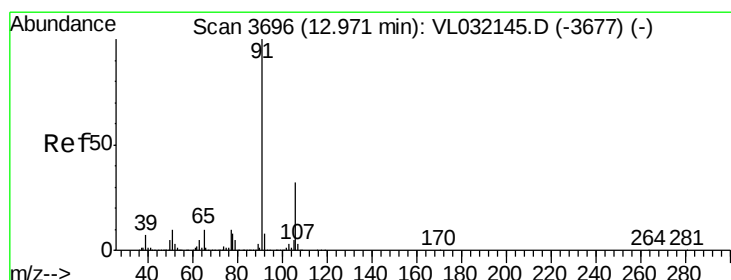
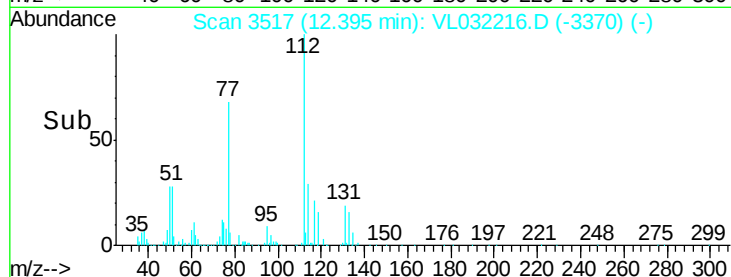
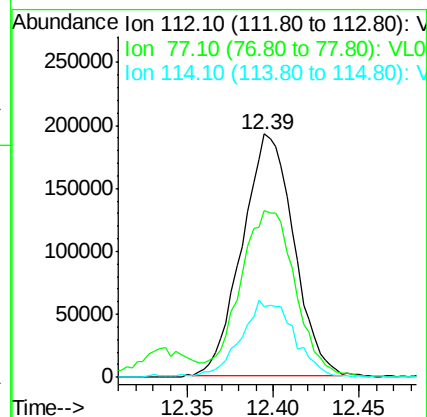
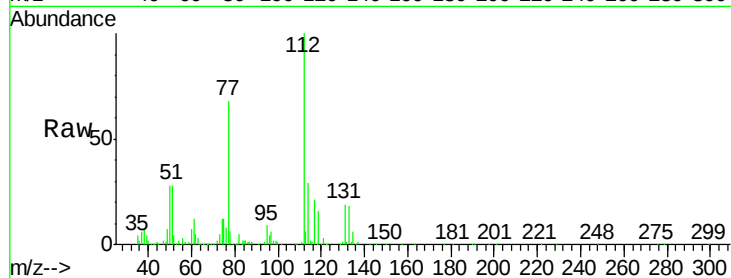
ClientSampleId :

LOQ-AIR-02-QT3-2018

Tot Ion:	112	Resp:	400399
Ion Ratio	Lower	Upper	
112	100		
77	66.9	52.6	78.8
114	28.4	27.9	34.1

Manual Integrations
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MMDadoda
7/9/2018 10:47:39 AM



#58

Ethyl Benzene

Concen: 1.06 ppbv

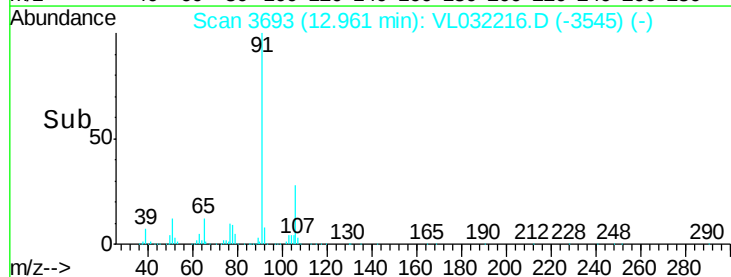
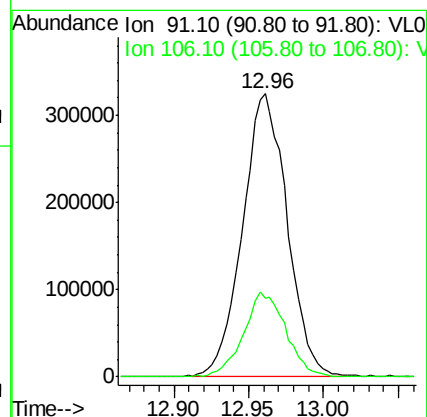
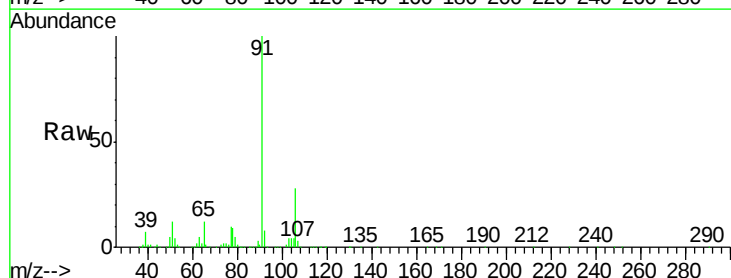
RT: 12.96 min Scan# 3693

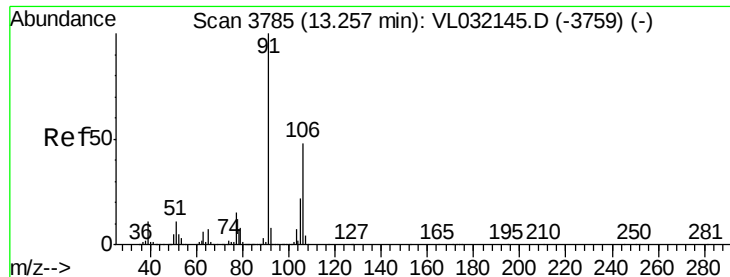
Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Tgt Ion:	91	Resp:	666813
Ion Ratio	Lower	Upper	
91	100		
106	27.9	26.5	39.7





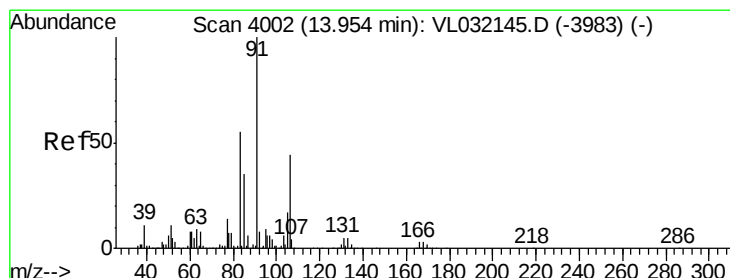
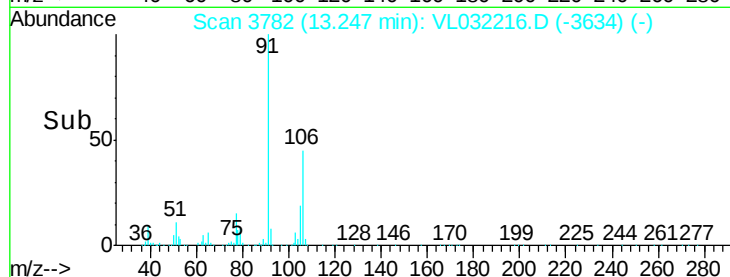
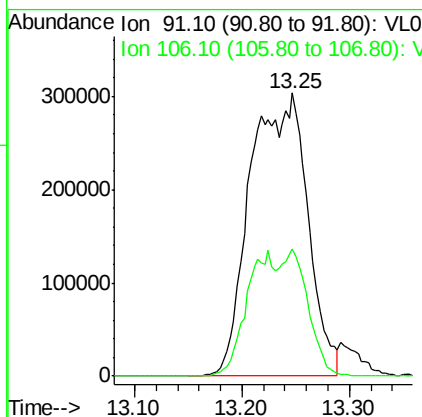
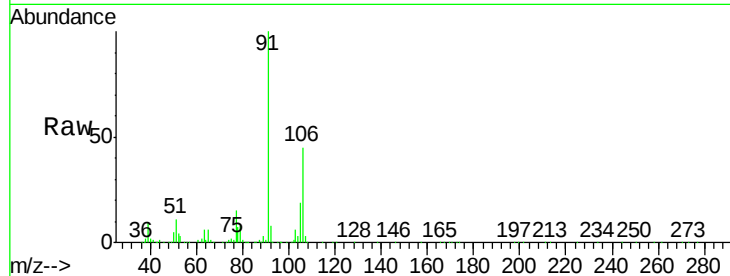
#59
m/p-Xylene
Concen: 2.22 ppbv m
RT: 13.25 min Scan# 3782
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

Tot Ion: 91 Resp: 1124704
Ion Ratio Lower Upper
91 100
106 44.3 38.6 58.0

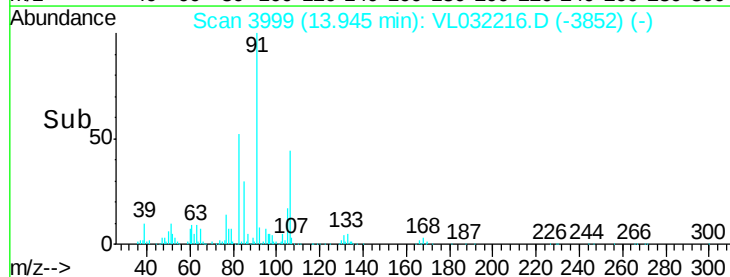
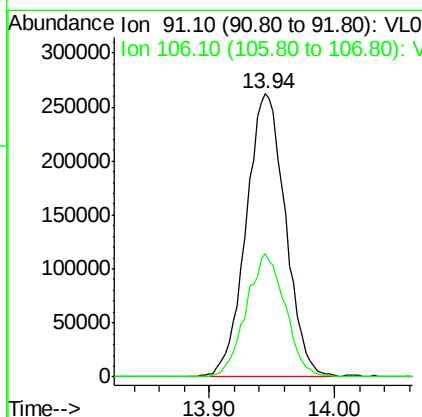
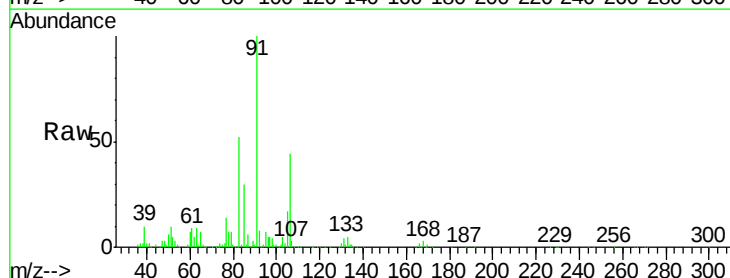
Manual Integrations
APPROVED

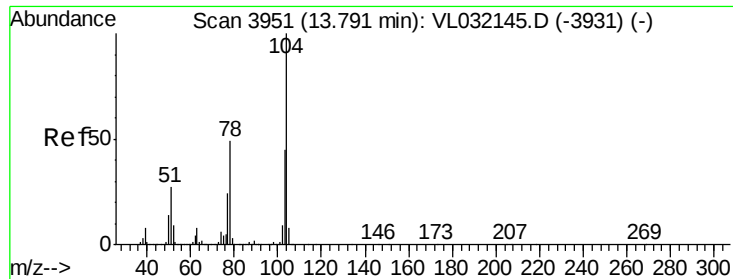
MMDadoda
7/9/2018 10:47:39 AM



#60
o-Xylene
Concen: 1.13 ppbv
RT: 13.94 min Scan# 3999
Delta R.T. -0.03 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion: 91 Resp: 570992
Ion Ratio Lower Upper
91 100
106 43.6 23.3 69.8





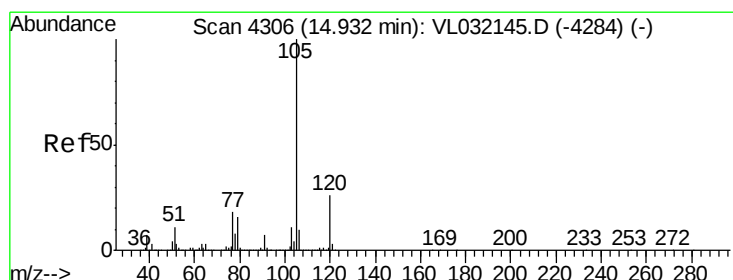
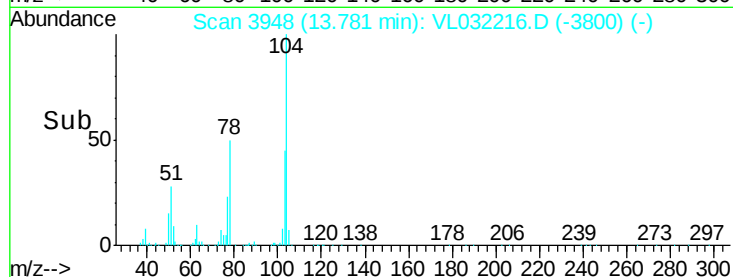
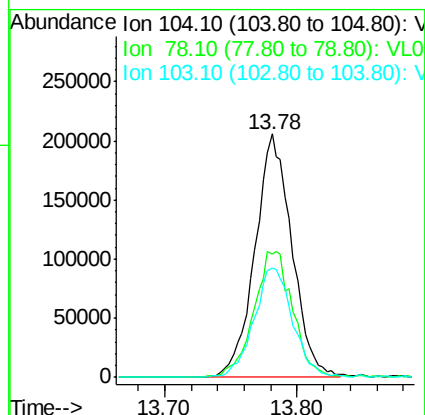
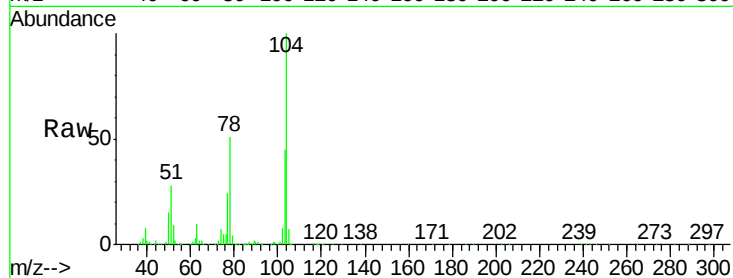
#61
Stvrene
Concen: 0.96 ppbv
RT: 13.78 min Scan# 3948
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
104	100		
78	55.2	37.9	56.9
103	47.1	36.6	55.0

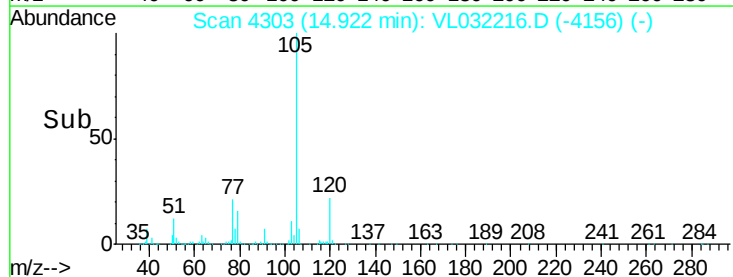
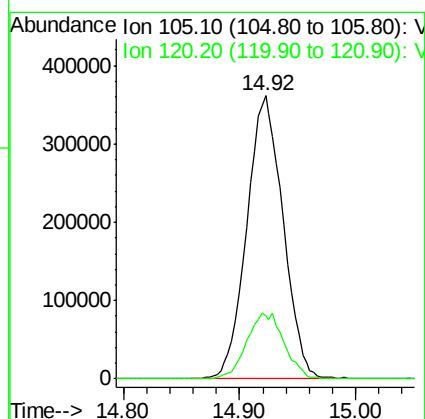
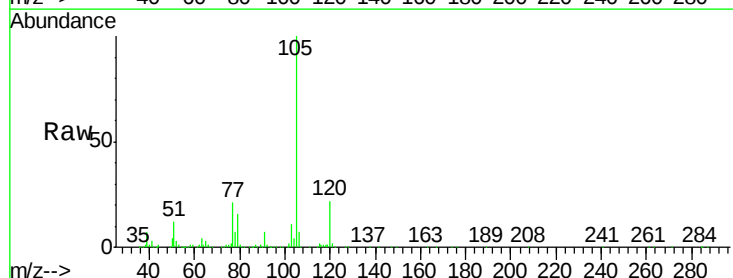
Manual Integrations
APPROVED

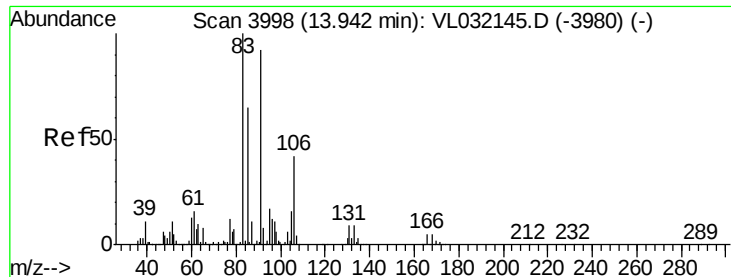
MMDadoda
7/9/2018 10:47:39 AM



#62
Isopropylbenzene
Concen: 1.01 ppbv
RT: 14.92 min Scan# 4303
Delta R.T. -0.03 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.9	21.0	31.4





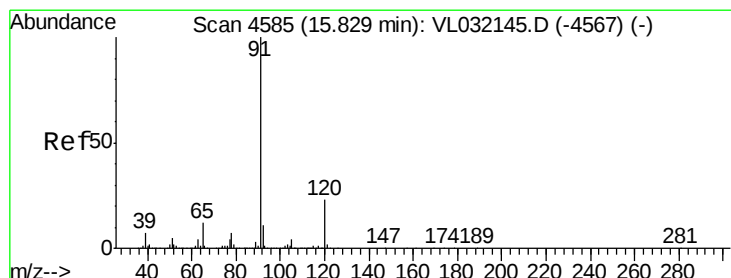
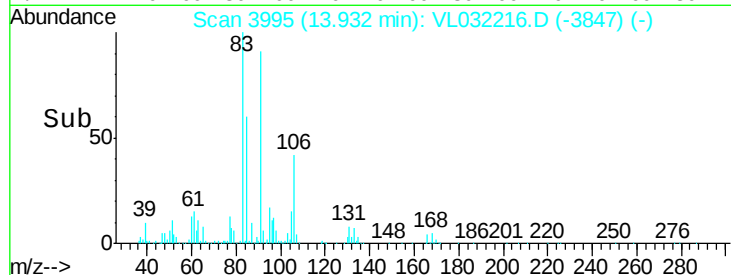
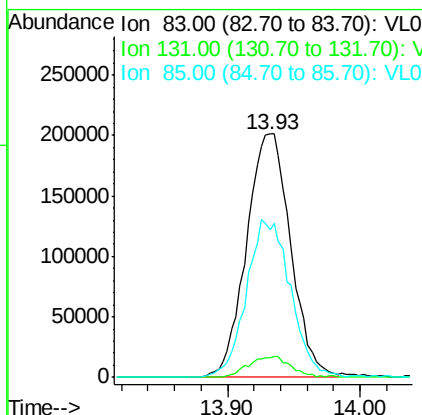
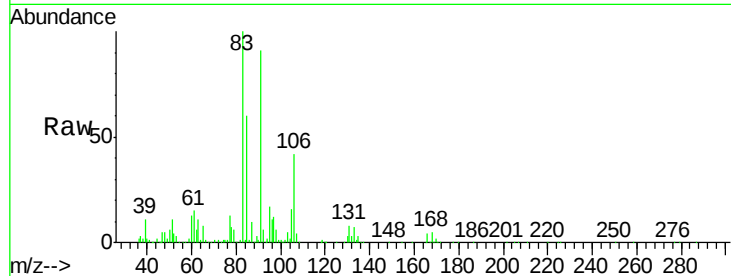
#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.19 ppbv
 RT: 13.93 min Scan# 3995
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

Tot Ion	83	Resp	464823
Ion Ratio	100	Lower	Upper
83	100		
131	8.6	4.6	13.8
85	65.3	32.4	97.2

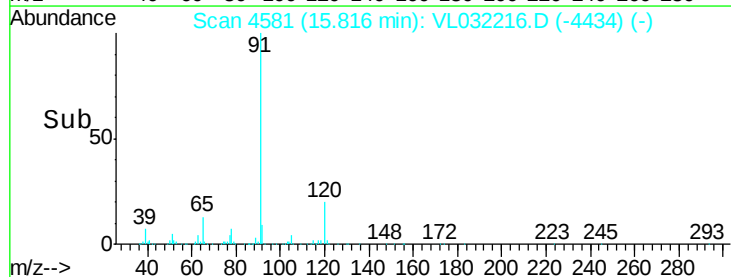
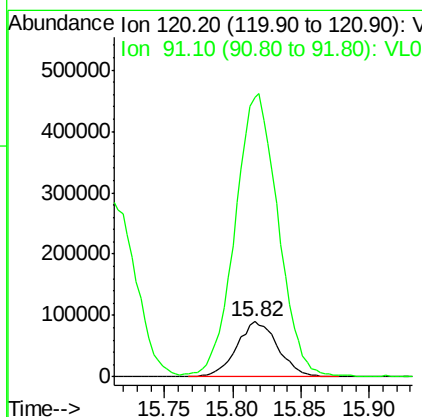
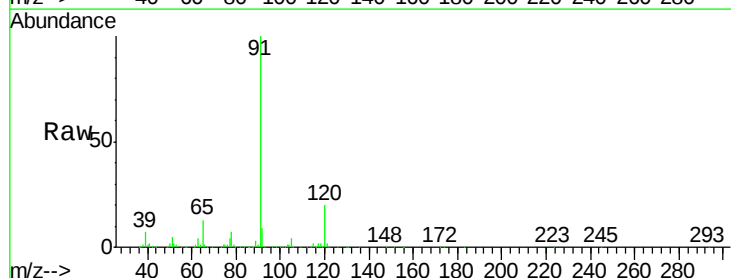
Manual Integrations
 APPROVED

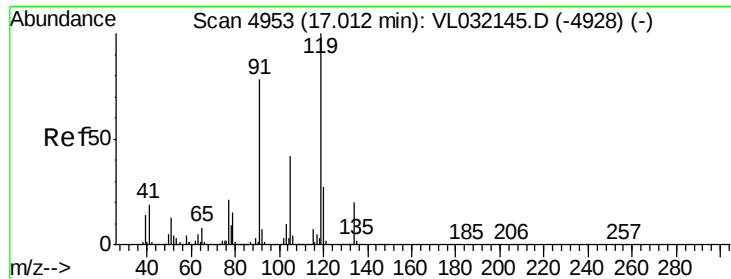
MMDadoda
 7/9/2018 10:47:39 AM



#64
 n-propylbenzene
 Concen: 0.95 ppbv
 RT: 15.82 min Scan# 4581
 Delta R.T. -0.03 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion	120	Resp	190452
Ion Ratio	100	Lower	Upper
120	100		
91	528.3	357.4	536.0





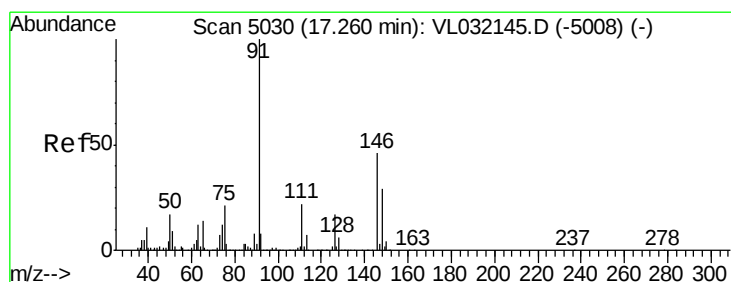
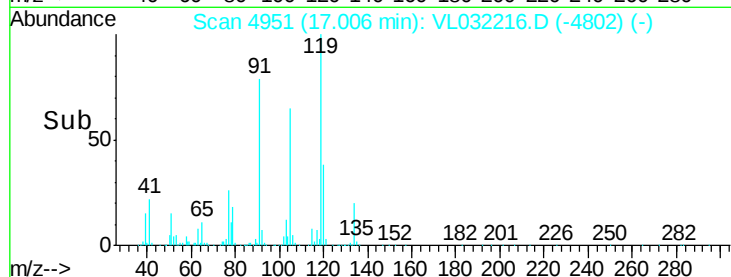
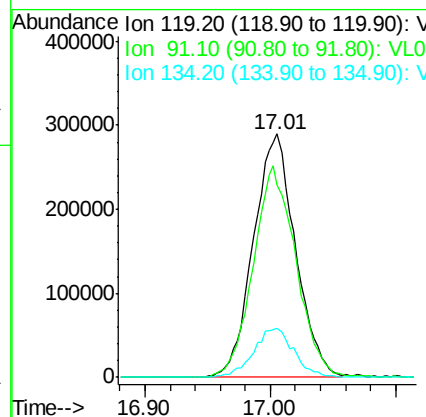
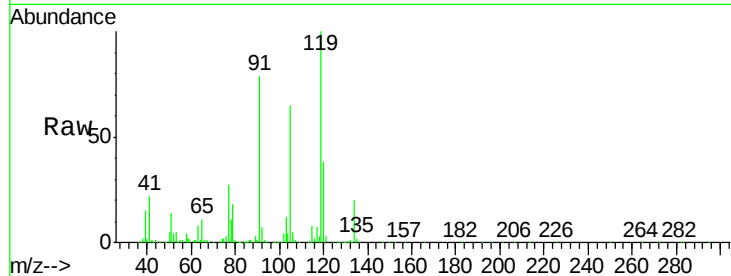
#65
tert-Butylbenzene
Concen: 0.99 ppbv
RT: 17.01 min Scan# 4951
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
119	100	673344		
91	88.5	62.2	93.2	
134	19.3	16.2	24.2	

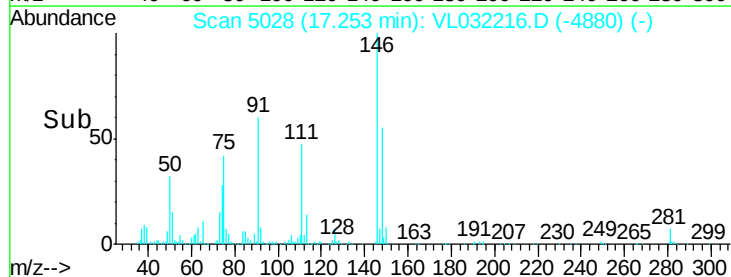
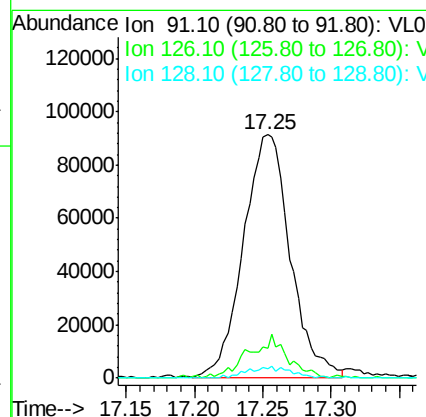
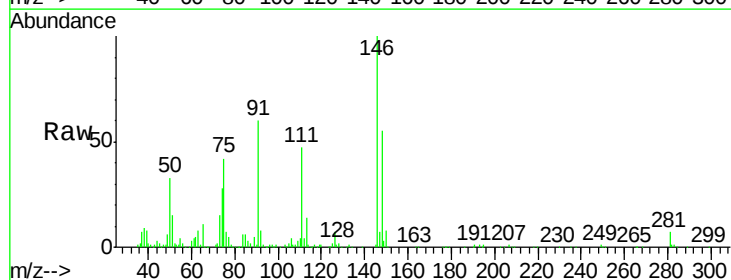
Manual Integrations
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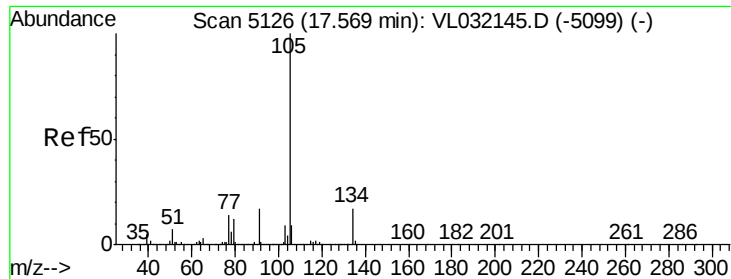
MMDadoda
7/9/2018 10:47:39 AM



#66
Benzyl Chloride
Concen: 0.52 ppbv
RT: 17.25 min Scan# 5028
Delta R.T. -0.02 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	219020		
126	15.5	15.7	23.5#	
128	4.7	5.2	7.8#	





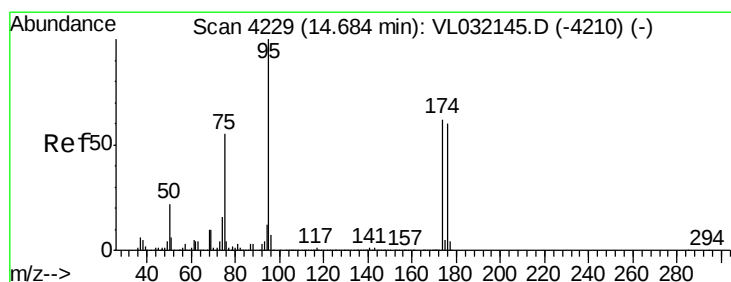
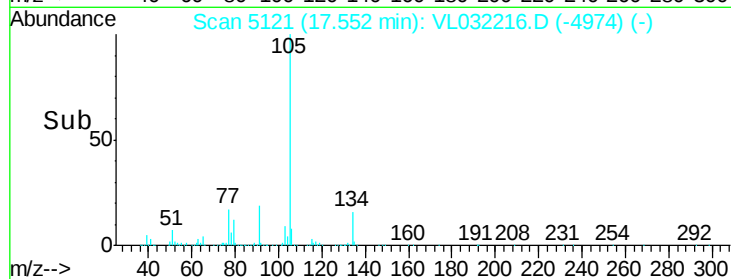
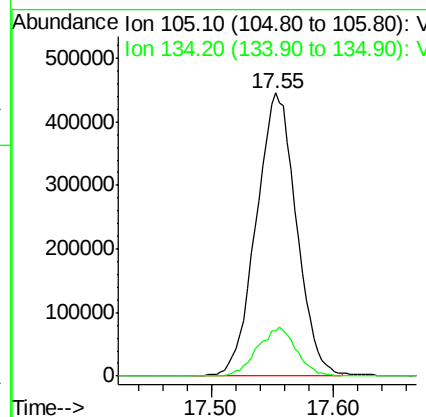
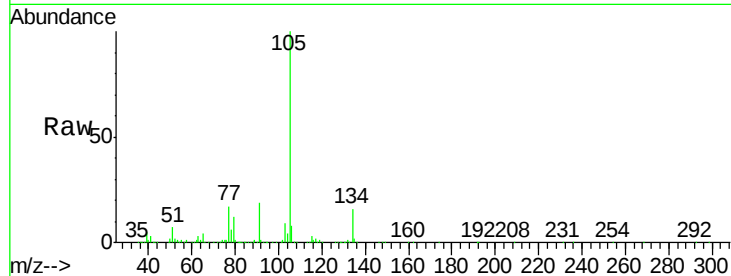
#67
 sec-Butylbenzene
 Concen: 1.02 ppbv
 RT: 17.55 min Scan# 5121
 Delta R.T. -0.03 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

Tot Ion:105 Resp: 1016421
 Ion Ratio Lower Upper
 105 100
 134 16.8 14.7 22.1

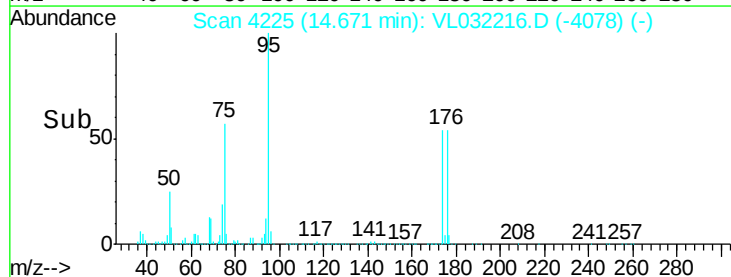
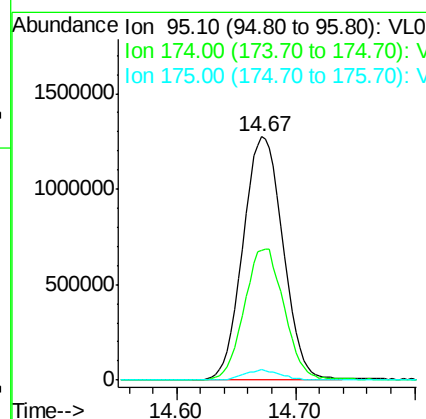
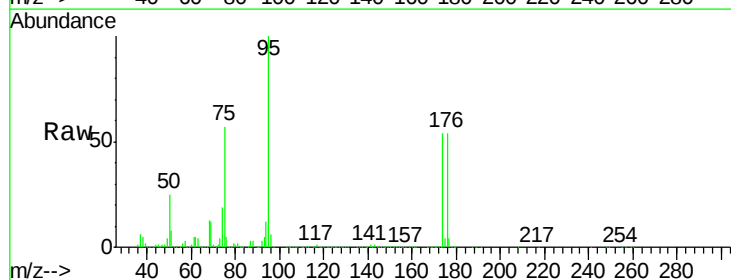
Manual Integrations
 APPROVED

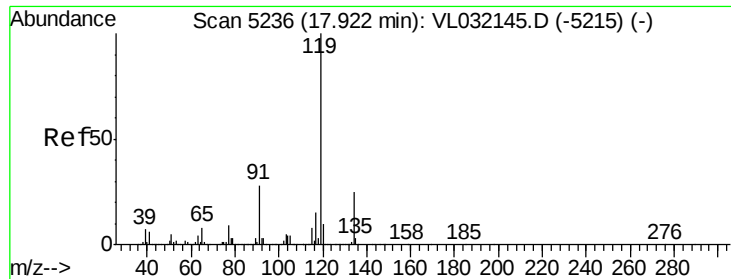
MMDadoda
 7/9/2018 10:47:39 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.91 ppbv
 RT: 14.67 min Scan# 4225
 Delta R.T. -0.03 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion: 95 Resp: 2969703
 Ion Ratio Lower Upper
 95 100
 174 54.3 52.1 78.1
 175 3.9 4.0 6.0#





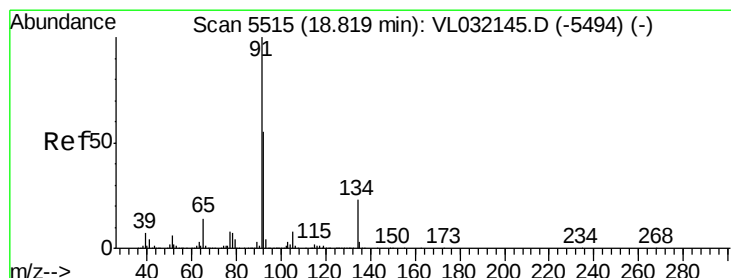
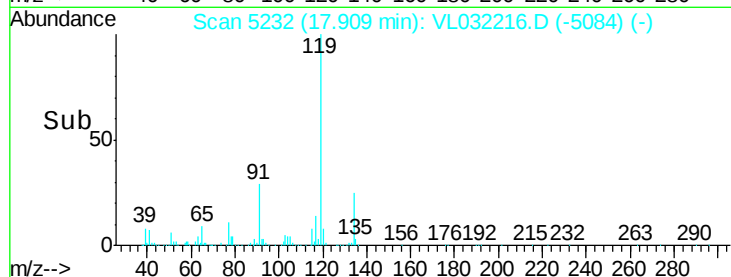
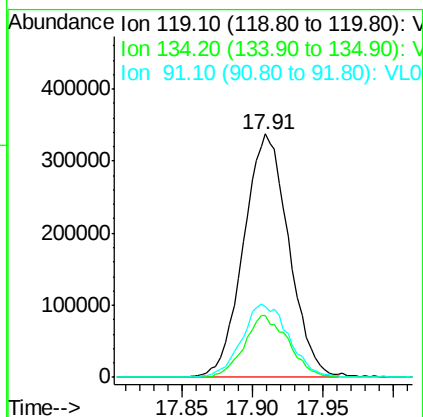
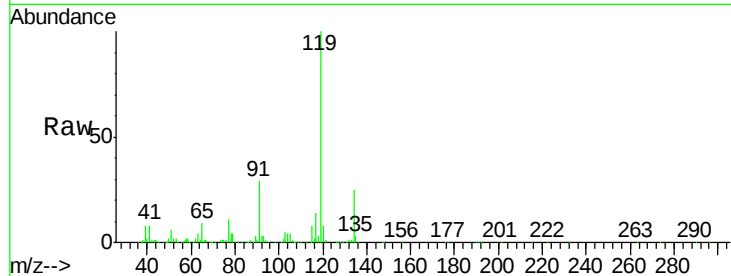
#69
 p-Isopropyltoluene
 Concen: 0.94 ppbv
 RT: 17.91 min Scan# 5232
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.7	31.1
91	31.8	21.8	32.8

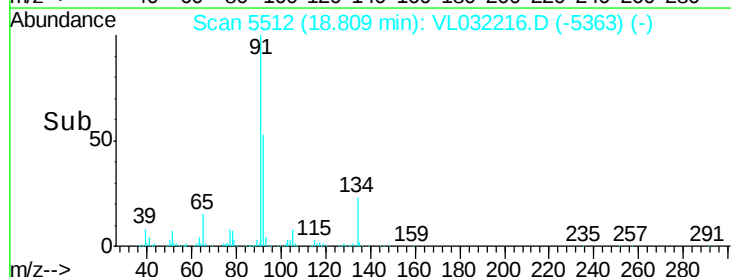
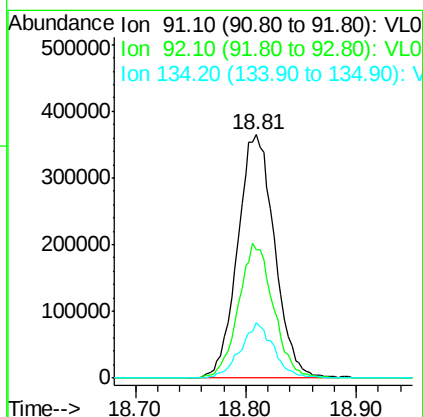
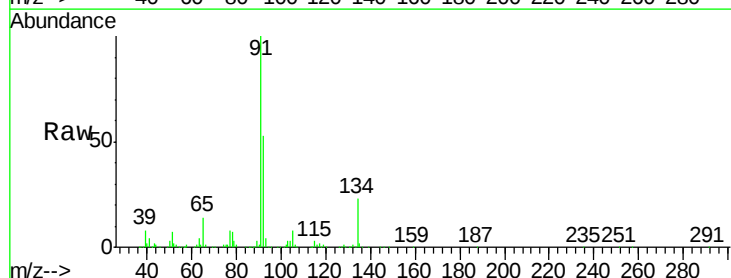
Manual Integrations
 APPROVED

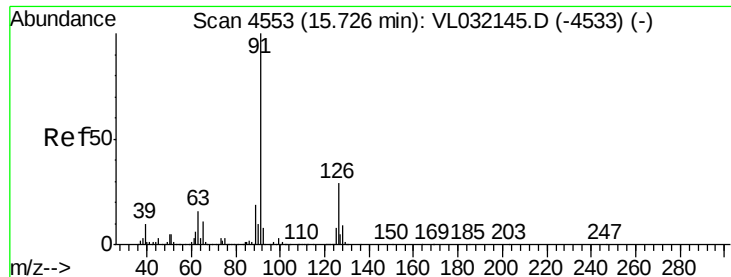
MMDadoda
 7/9/2018 10:47:39 AM



#70
 n-Butylbenzene
 Concen: 1.01 ppbv
 RT: 18.81 min Scan# 5512
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.3	43.7	65.5
134	20.4	18.9	28.3





#71

2-Chlorotoluene

Concen: 1.02 ppbv

RT: 15.71 min Scan# 4549

Delta R.T. -0.03 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

Tot Ion: 91 Resp: 607066

Ion Ratio Lower Upper

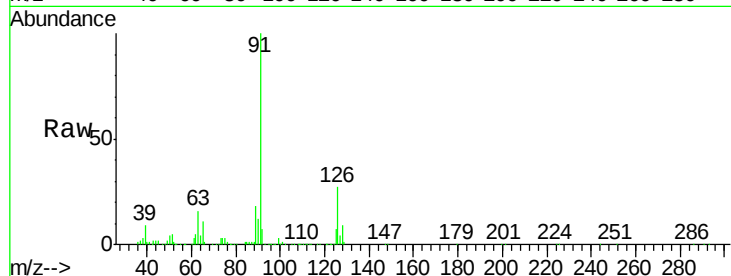
91 100

126 29.2 12.8 51.0

Manual Integrations
APPROVED

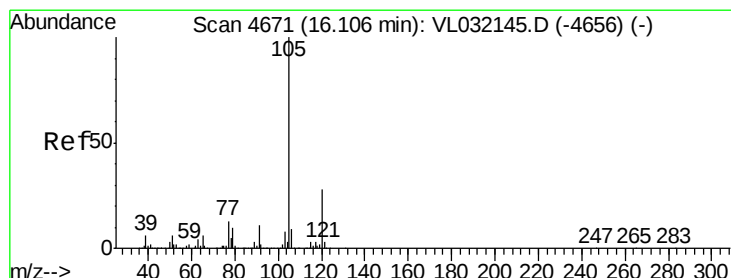
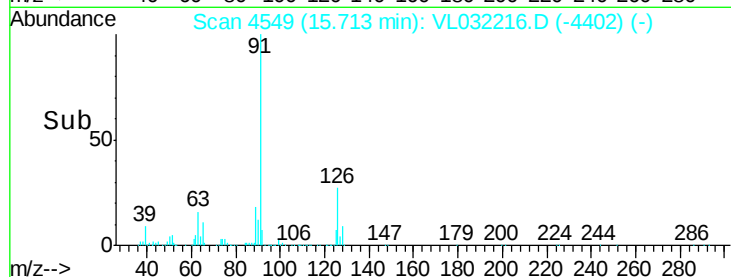
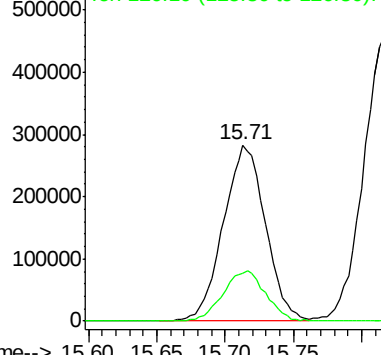
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.94 ppbv

RT: 16.10 min Scan# 4669

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Tgt Ion: 105 Resp: 613102

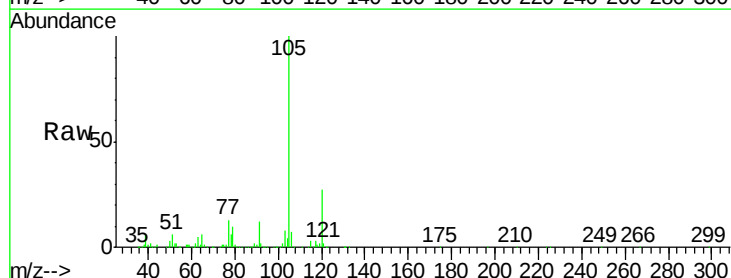
Ion Ratio Lower Upper

105 100

120 29.1 24.3 36.5

91 14.2 9.4 14.0#

77 14.9 10.2 15.2

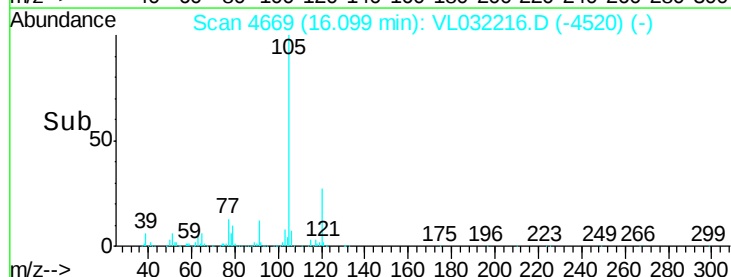
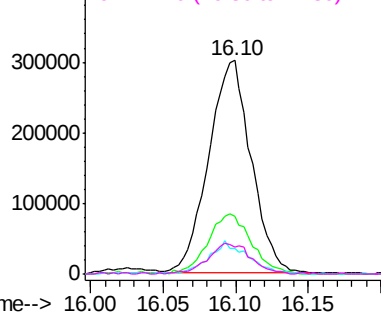


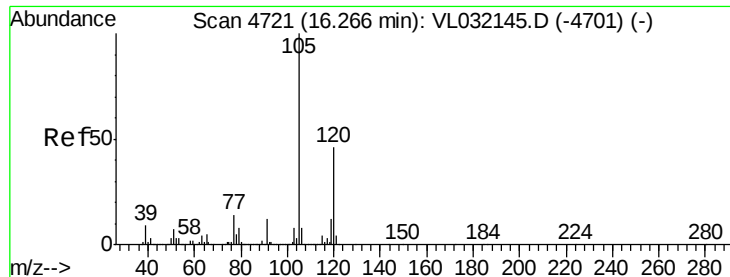
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.96 ppbv

RT: 16.25 min Scan# 4716

Delta R.T. -0.03 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2018

Tot Ion:105 Resp: 591434

Ion Ratio Lower Upper

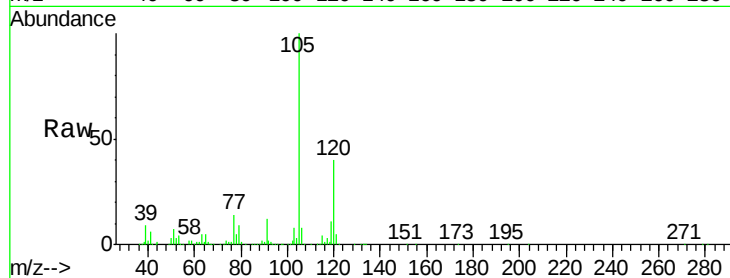
105 100

120 39.7 38.6 57.8

Manual Integrations
APPROVED

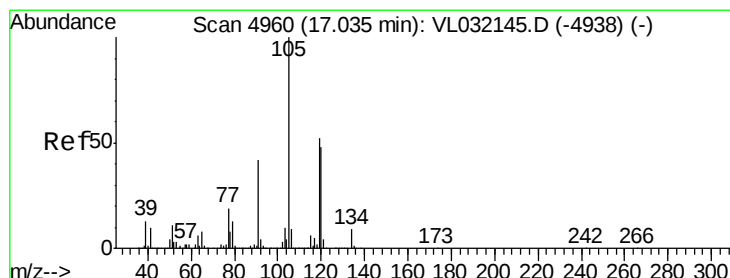
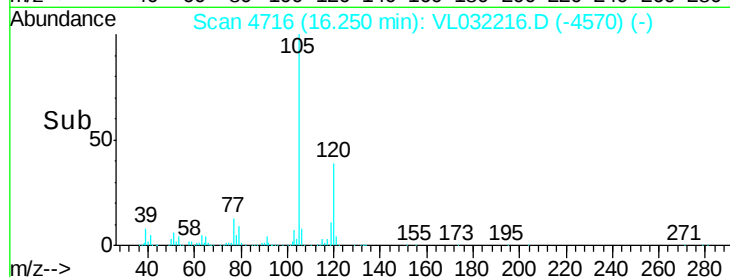
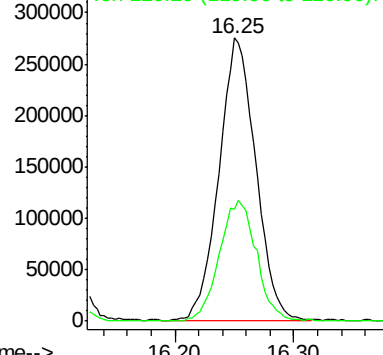
MMDadoda

7/9/2018 10:47:39 AM



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: 1.00 ppbv

RT: 17.02 min Scan# 4956

Delta R.T. -0.03 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Tgt Ion:105 Resp: 617014

Ion Ratio Lower Upper

105 100

120 43.2 38.8 58.2

91 46.4 33.6 50.4

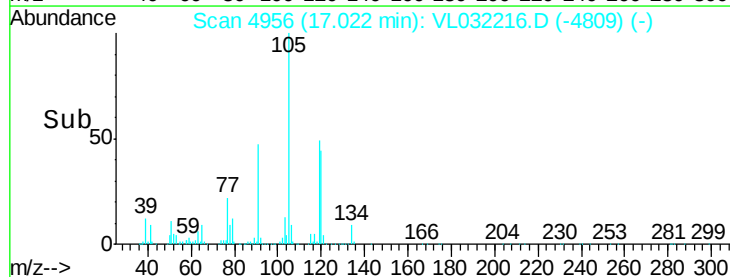
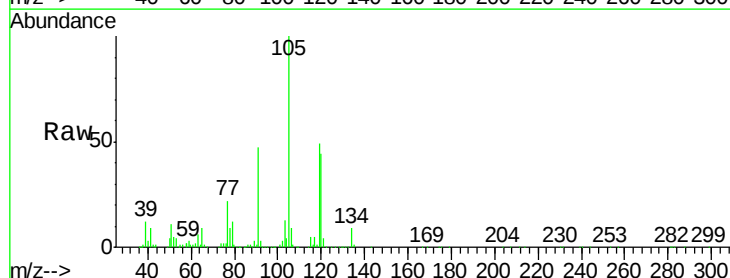
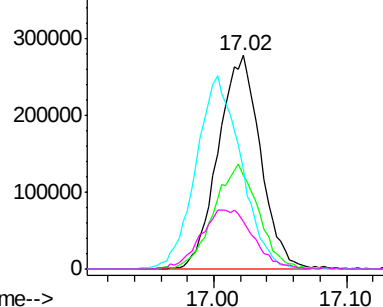
77 21.7 16.0 24.0

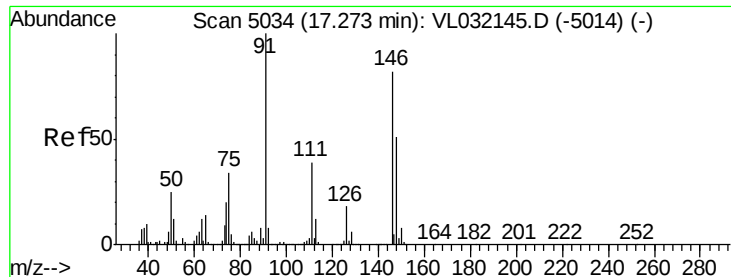
Abundance Ion 105.10 (104.80 to 105.80): V

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: 1.05 ppbv

RT: 17.26 min Scan# 5030

Delta R.T. -0.03 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

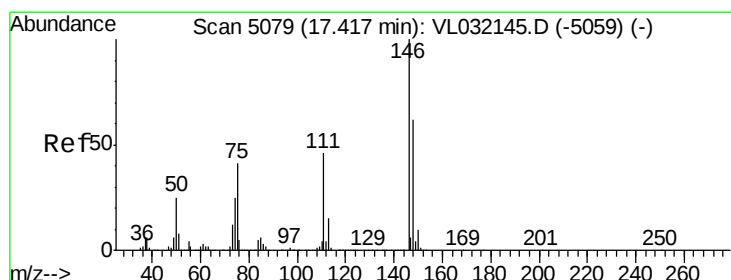
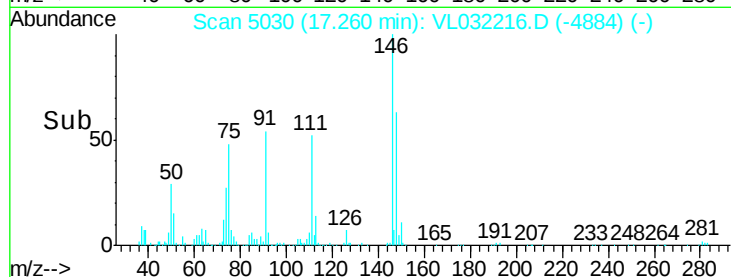
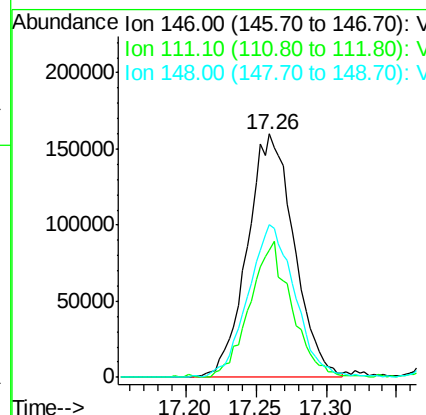
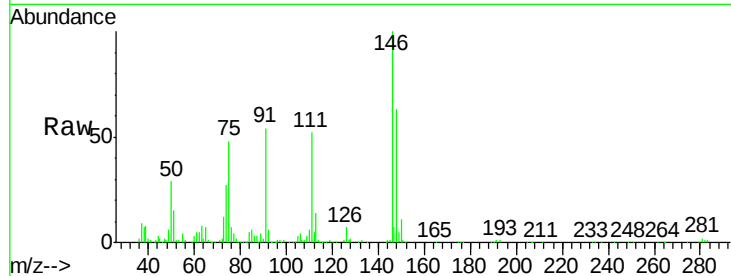
ClientSampleId :

LOQ-AIR-02-QT3-2018

Tot Ion:	146	Resp:	371339
Ion Ratio	Lower	Upper	
146	100		
111	50.6	22.9	68.8
148	63.0	31.7	95.1

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#76

1,4-Dichlorobenzene

Concen: 0.98 ppbv

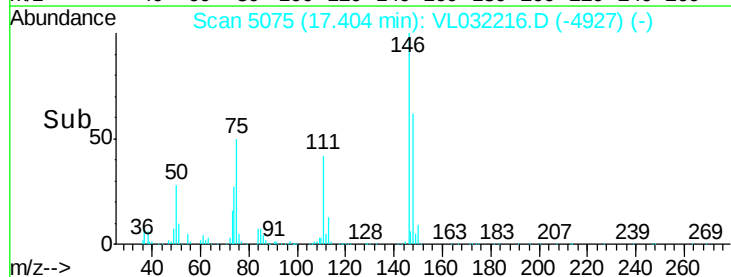
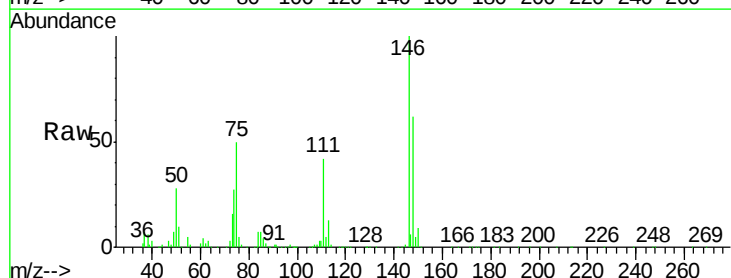
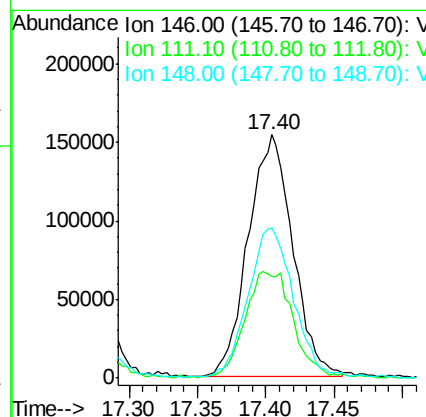
RT: 17.40 min Scan# 5075

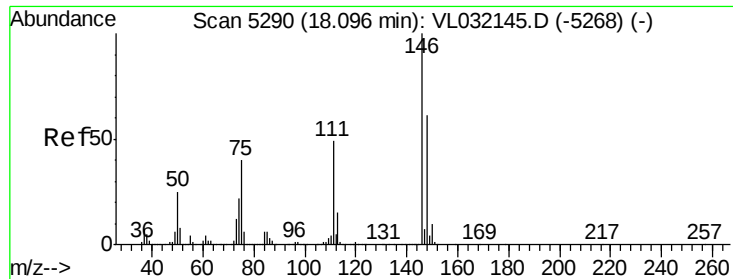
Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Tgt Ion:	146	Resp:	350254
Ion Ratio	Lower	Upper	
146	100		
111	47.9	21.9	65.8
148	64.2	32.1	96.5





#77

1,2-Dichlorobenzene

Concen: 1.04 ppbv m

RT: 18.09 min Scan# 5287

Delta R.T. -0.02 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Instrument :

MSVOA_L

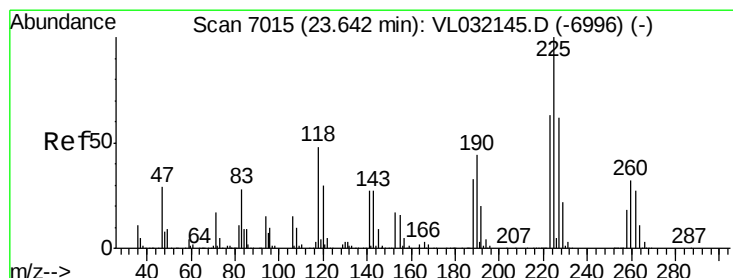
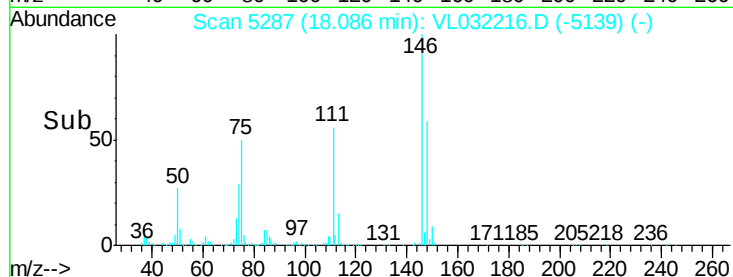
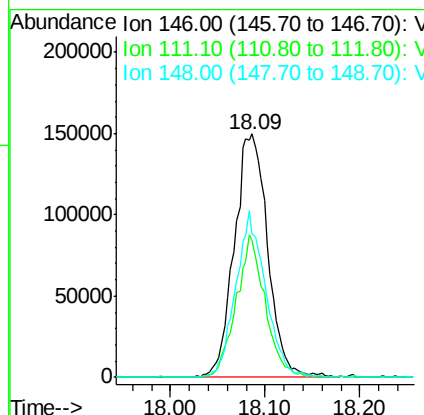
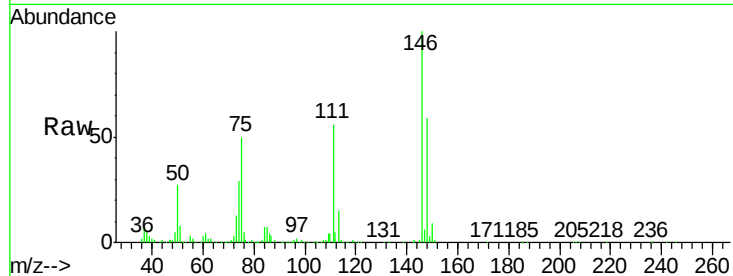
ClientSampleId :

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Tot Ion:	146	Resp:	366405
Ion Ratio	Lower	Upper	
146	100		
111	0.0	23.4	70.3#
148	0.0	32.0	96.0#

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#78

Hexachloro-1,3-Butadiene

Concen: 0.88 ppbv

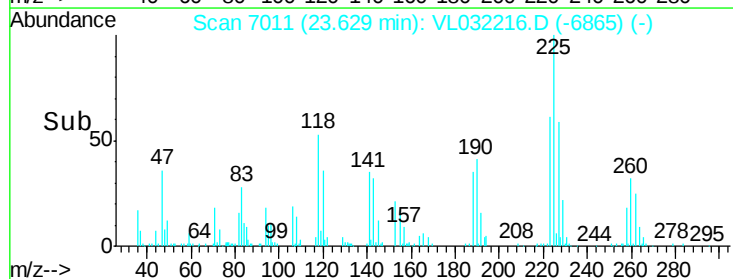
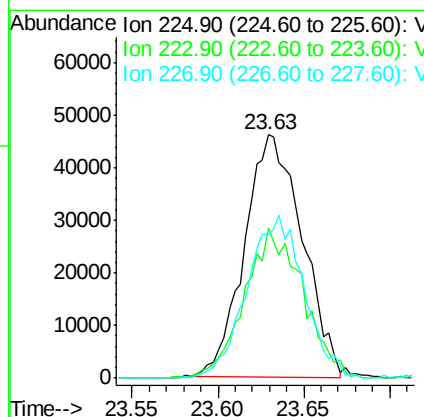
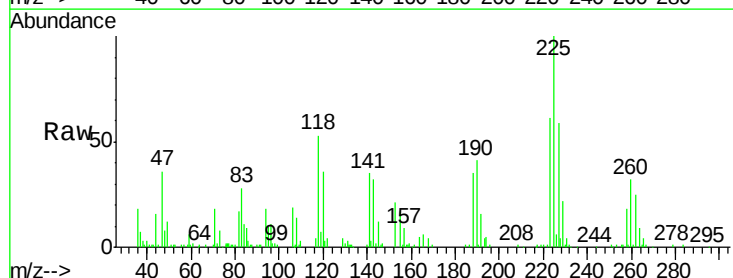
RT: 23.63 min Scan# 7011

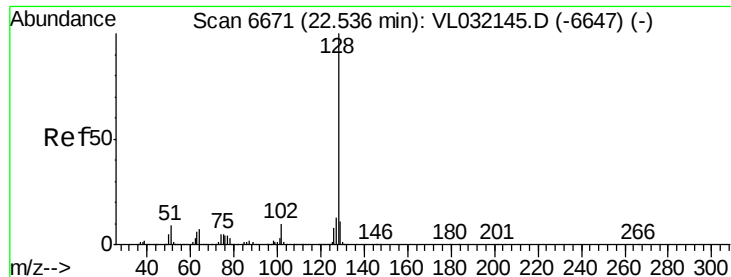
Delta R.T. -0.03 min

Lab File: VL032216.D

Acq: 5 Jul 2018 23:22

Tgt Ion:	225	Resp:	108124
Ion Ratio	Lower	Upper	
225	100		
223	62.0	51.0	76.4
227	65.9	51.4	77.0





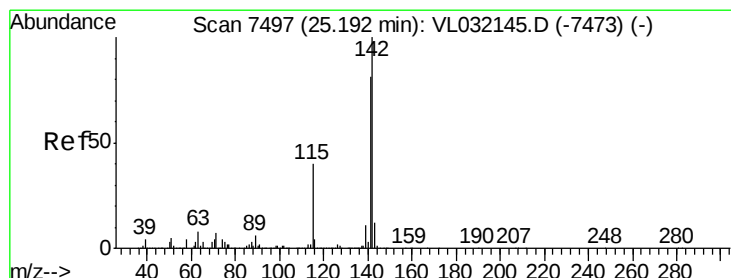
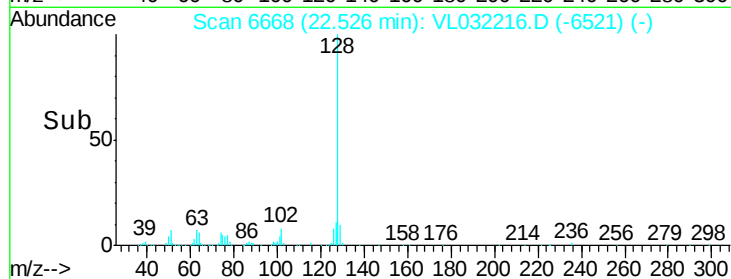
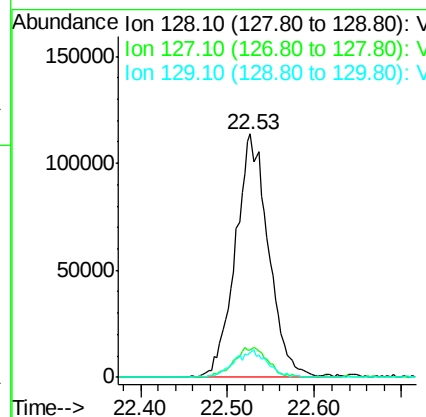
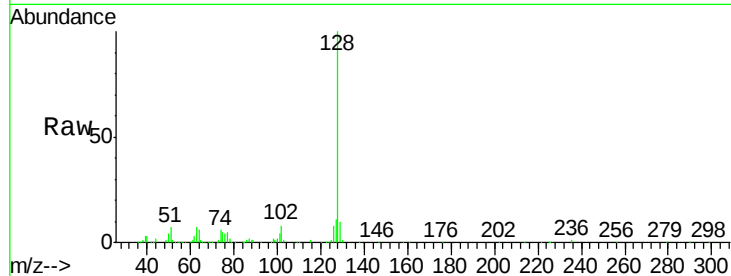
#79
Naphthalene
Concen: 0.53 ppbv m
RT: 22.53 min Scan# 6668
Delta R.T. -0.03 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
128	100	301366		
127	11.2	10.5	15.7	
129	9.9	9.0	13.6	

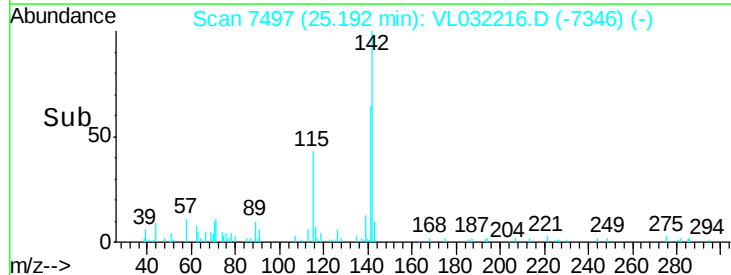
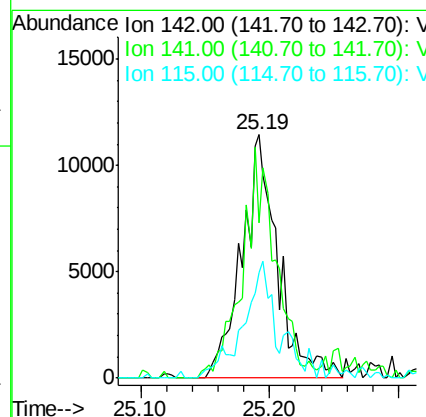
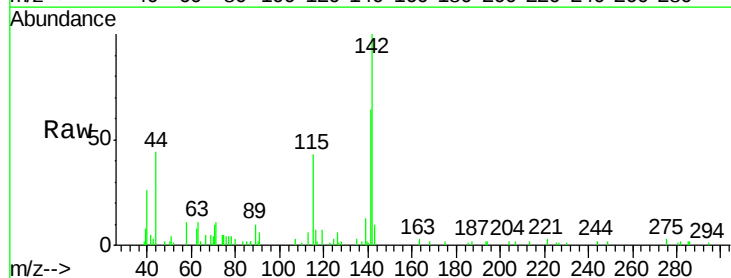
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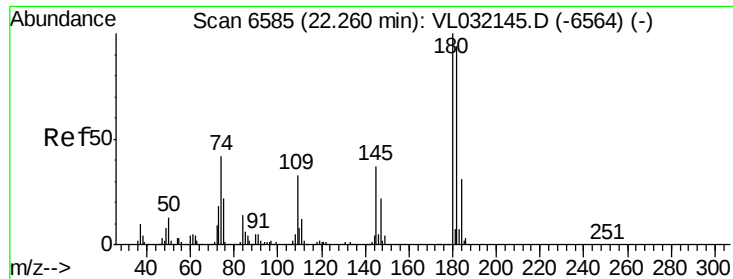
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#80
Naphthalene, 2-methyl-
Concen: 0.11 ppbv
RT: 25.19 min Scan# 7497
Delta R.T. -0.01 min
Lab File: VL032216.D
Acq: 5 Jul 2018 23:22

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	22022		
141	89.6	65.8	98.6	
115	46.7	29.4	44.0	





#81
 1,2,4-Trichlorobenzene
 Concen: 0.65 ppbv m
 RT: 22.25 min Scan# 6582
 Delta R.T. -0.02 min
 Lab File: VL032216.D
 Acq: 5 Jul 2018 23:22

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
180	100	166254		
182	0.0	76.2	114.4#	
184	31.7	24.4	36.6	

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