

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033444.D
 Acq On : 25 Mar 2019 20:12
 Operator : SY/AP
 Sample : K1560-14 1 PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:56:38 AM

Quant Time: Mar 31 10:34:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	784932	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1830322	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1814749	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1397829	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	118379	1.034	ppbv	98
3) Chlorodifluoromethane	3.01	51	95802	1.060	ppbv	100
4) Chloromethane	3.17	50	48328	1.011	ppbv	92
5) Vinyl Chloride	3.29	62	50007	1.064	ppbv	94
6) Bromomethane	3.51	94	32693	1.083	ppbv	95
7) Chloroethane	3.60	64	17394	0.995	ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	131833	1.081	ppbv	100
9) Propene	3.03	41	38309	1.009	ppbv	97
10) Heptane	8.24	43	92378	0.911	ppbv	99
11) Trichlorofluoromethane	4.00	101	145152	1.029	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	99888	1.054	ppbv	97
13) Ethanol	3.65	45	12902m	1.314	ppbv	
14) Bromoethene	3.79	108	38720	1.024	ppbv	98
15) Acetone	3.90	43	98069	1.039	ppbv	98
16) 1,3-Butadiene	3.36	39	31570	0.843	ppbv #	63
17) tert-Butyl alcohol	4.37	59	20160m	1.162	ppbv	
18) 1,1-Dichloroethene	4.35	96	42575	1.046	ppbv	96
19) Isopropyl Alcohol	4.03	45	66932	1.121	ppbv #	97
20) Methylene Chloride	4.40	84	41145	1.027	ppbv	93
21) Allyl Chloride	4.48	41	59296	0.994	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	41845m	0.985	ppbv	
23) Vinyl Acetate	5.15	43	129141	0.961	ppbv #	98
24) 1,1-Dichloroethane	5.09	63	100317	0.983	ppbv	97
25) Ethyl Acetate	5.77	43	172330	0.984	ppbv	99
26) Hexane	5.78	57	79453	1.020	ppbv	96
27) Carbon Disulfide	4.62	76	85988	0.929	ppbv	98
28) Methyl tert-Butyl Ether	5.12	73	109686	0.978	ppbv	97
29) Chloroform	5.84	83	131729	0.987	ppbv	99
30) Cyclohexane	7.25	84	56939	0.924	ppbv	97
31) cis-1,2-Dichloroethene	5.64	61	72900	0.942	ppbv	91
32) 1,1,1-Trichloroethane	6.62	97	128242	1.009	ppbv	97
34) 2-Butanone	5.33	43	108581	0.987	ppbv	100
35) Carbon Tetrachloride	7.13	117	130885	1.010	ppbv	97
36) Benzene	7.00	78	151450	0.986	ppbv	97
37) 1,2-Dichloroethane	6.41	62	100221	0.974	ppbv	98
38) Trichloroethene	7.96	130	59369	1.027	ppbv	95
39) 1,2-Dichloropropane	7.73	63	59181	0.984	ppbv	97
40) 1,4-Dioxane	7.98	88	22341m	1.041	ppbv	
41) Tetrahydrofuran	6.16	42	55307	0.914	ppbv	100
42) Bromodichloromethane	7.91	83	132084	0.942	ppbv	96
43) Methyl Methacrylate	8.14	69	55425	0.889	ppbv	96

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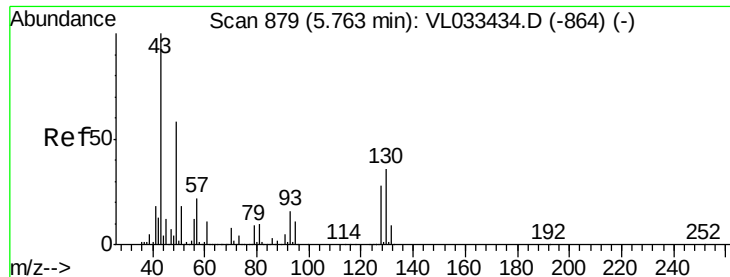
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	265429	0.989	ppbv	97
45) t-1,3-Dichloropropene	9.41	75	63559	0.830	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	75058	0.839	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	67544	0.989	ppbv	98
48) Dibromochloromethane	10.45	129	105567	0.916	ppbv	97
49) Bromoform	13.20	173	89864	0.816	ppbv	97
50) 4-Methyl-2-Pentanone	8.88	43	153076	0.951	ppbv	98
51) 2-Hexanone	10.29	43	105884m	0.882	ppbv	
52) Tetrachloroethene	11.37	164	57461m	0.992	ppbv	
53) Toluene	9.95	91	158686	0.889	ppbv	99
54) 1,2-Dibromoethane	10.76	107	99685	0.933	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	80291	0.965	ppbv #	1
57) Chlorobenzene	12.30	112	145214	1.031	ppbv #	90
58) Ethyl Benzene	12.86	91	235860	0.973	ppbv	93
59) m/p-Xylene	13.15	91	418534m	1.934	ppbv	
60) o-Xylene	13.85	91	204943	0.979	ppbv	99
61) Styrene	13.69	104	132163	0.920	ppbv	99
62) Isopropylbenzene	14.82	105	287024	0.968	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.83	83	153479	0.996	ppbv	99
64) n-propylbenzene	15.72	120	69017	0.918	ppbv	88
65) tert-Butylbenzene	16.90	119	250578	0.959	ppbv	96
66) Benzyl Chloride	17.16	91	87023	0.716	ppbv	100
67) sec-Butylbenzene	17.46	105	360348	0.970	ppbv	99
69) p-Isopropyltoluene	17.82	119	287665	0.951	ppbv	98
70) n-Butylbenzene	18.71	91	297355	0.928	ppbv	99
71) 2-Chlorotoluene	15.62	91	213402	0.947	ppbv	98
72) 4-Ethyltoluene	16.00	105	215905	0.918	ppbv	98
73) 1,3,5-Trimethylbenzene	16.15	105	213947m	0.950	ppbv	
74) 1,2,4-Trimethylbenzene	16.93	105	228976	0.949	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	144462	0.968	ppbv	98
76) 1,4-Dichlorobenzene	17.31	146	137431	0.946	ppbv	98
77) 1,2-Dichlorobenzene	17.99	146	135131	0.955	ppbv	96
78) Hexachloro-1,3-Butadiene	23.55	225	91697	0.979	ppbv	98
79) Naphthalene	22.42	128	140361m	0.679	ppbv	
80) Naphthalene, 2-methyl-	25.12	142	17110	0.247	ppbv	95
81) 1,2,4-Trichlorobenzene	22.14	180	89973m	0.785	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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MSVOA_L

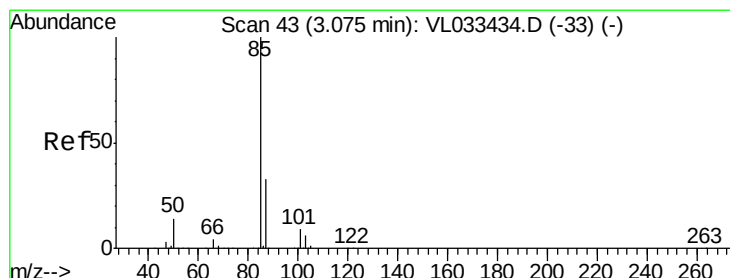
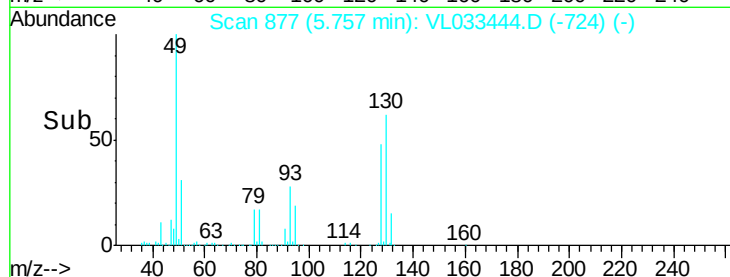
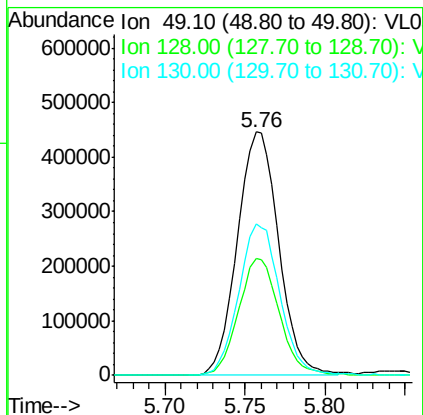
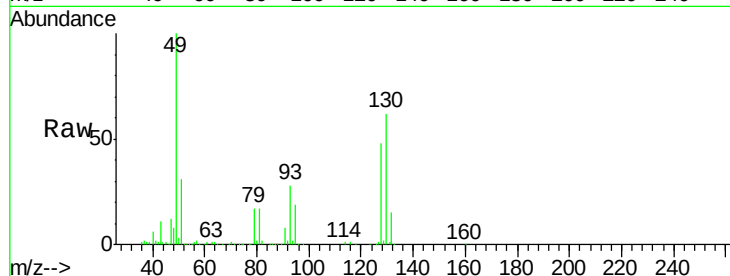
ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion:	49	Resp:	784932
Ion	Ratio	Lower	Upper
49	100		
128	47.5	24.0	72.0
130	62.6	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 1.034 ppbv

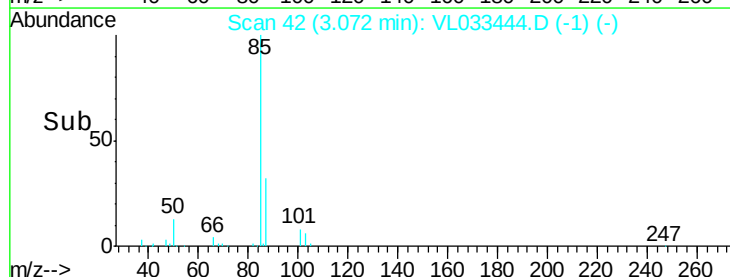
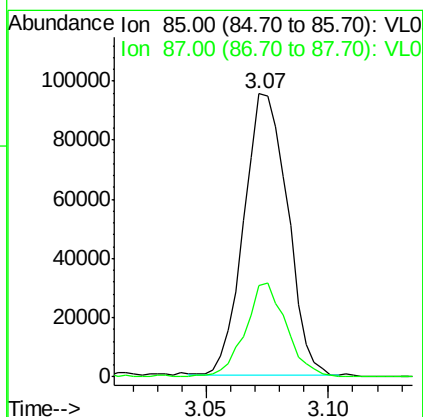
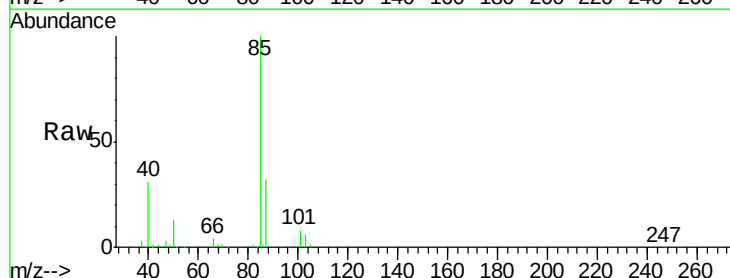
RT: 3.07 min Scan# 42

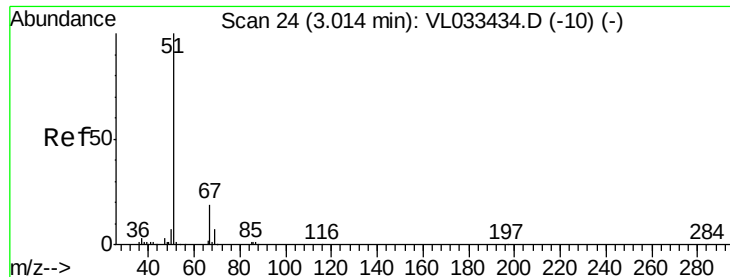
Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion:	85	Resp:	118379
Ion	Ratio	Lower	Upper
85	100		
87	32.5	26.7	40.1





#3

Chlorodifluoromethane

Concen: 1.060 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion: 51 Resp: 95802

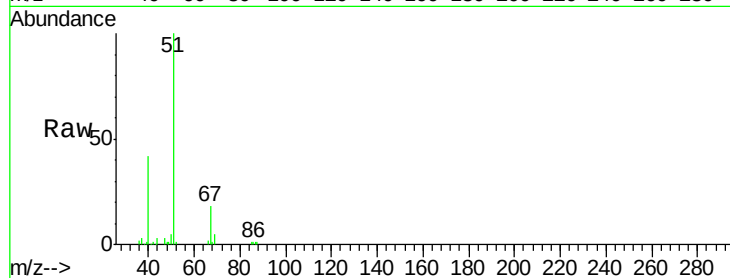
Ion Ratio Lower Upper

51 100

67 19.4 15.7 23.5

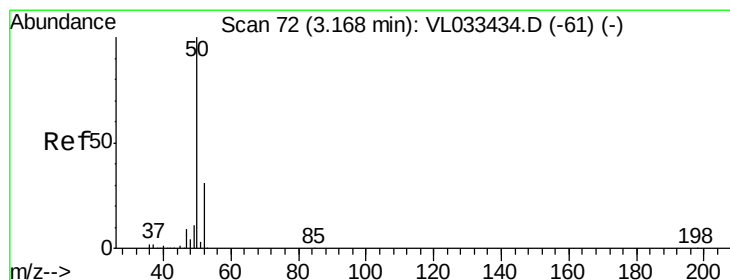
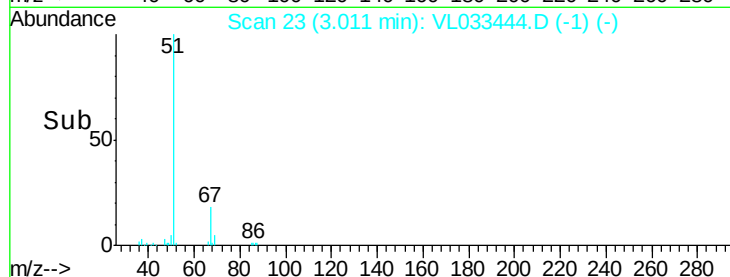
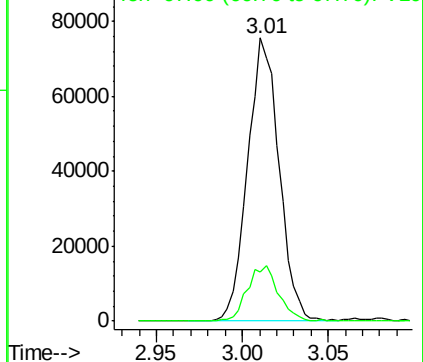
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.011 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033444.D

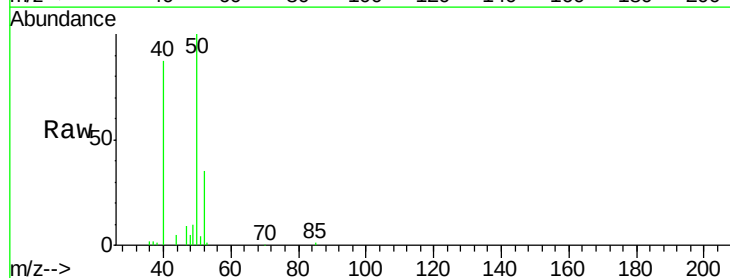
Acq: 25 Mar 2019 20:12

Tgt Ion: 50 Resp: 48328

Ion Ratio Lower Upper

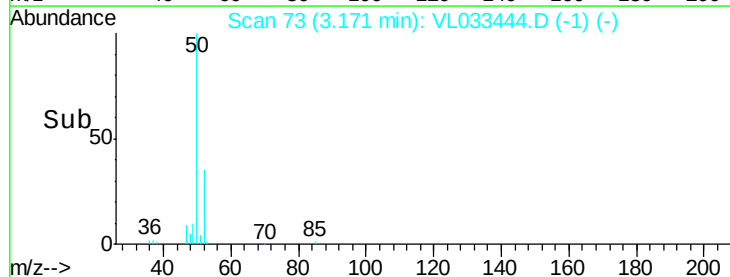
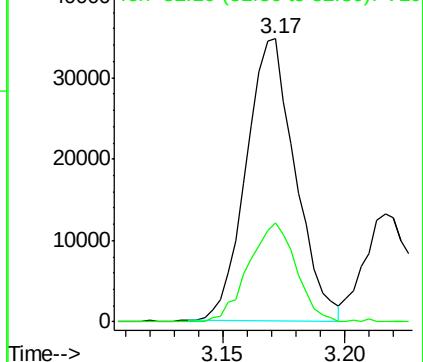
50 100

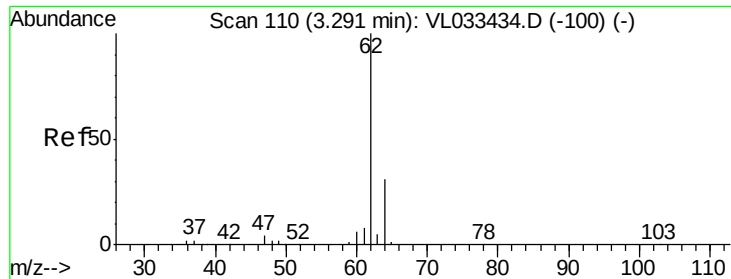
52 35.9 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.064 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion: 62 Resp: 50007

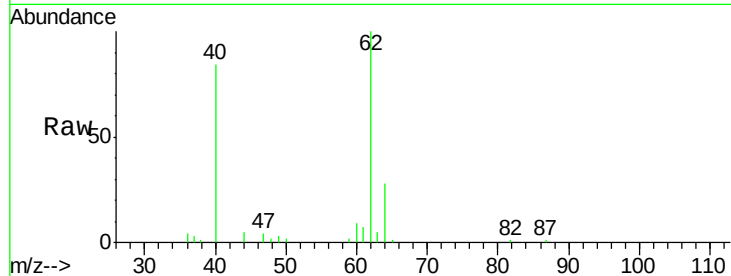
Ion Ratio Lower Upper

62 100

64 27.8 24.9 37.3

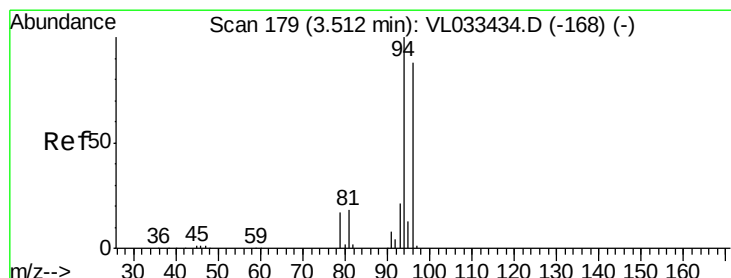
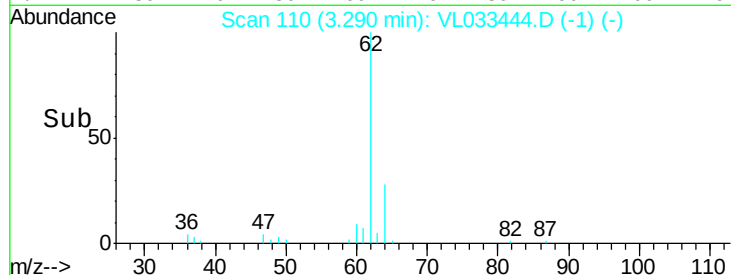
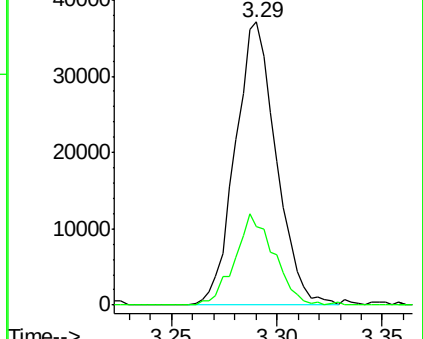
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.083 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033444.D

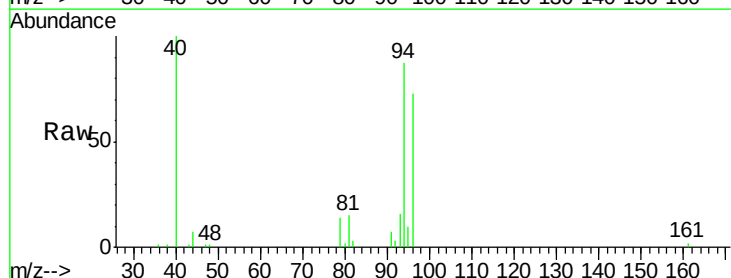
Acq: 25 Mar 2019 20:12

Tgt Ion: 94 Resp: 32693

Ion Ratio Lower Upper

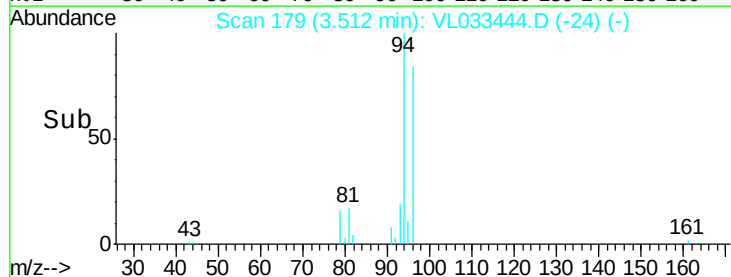
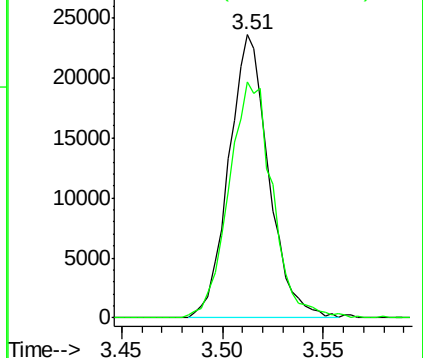
94 100

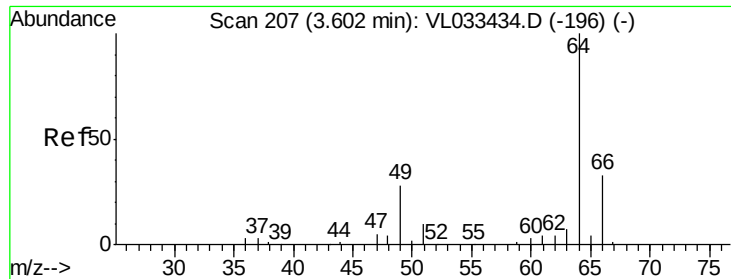
96 82.7 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.995 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion: 64 Resp: 17394

Ion Ratio Lower Upper

64 100

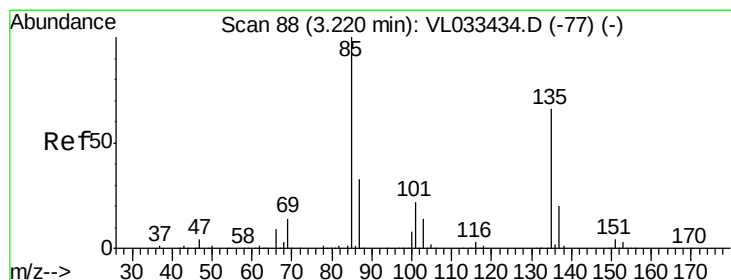
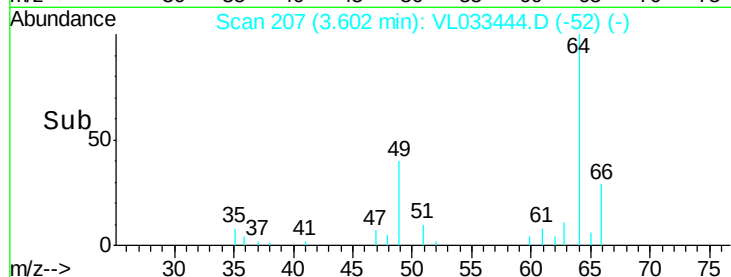
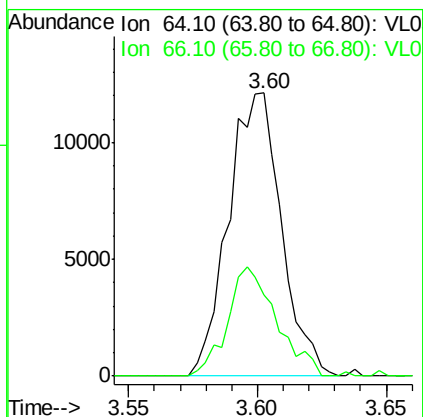
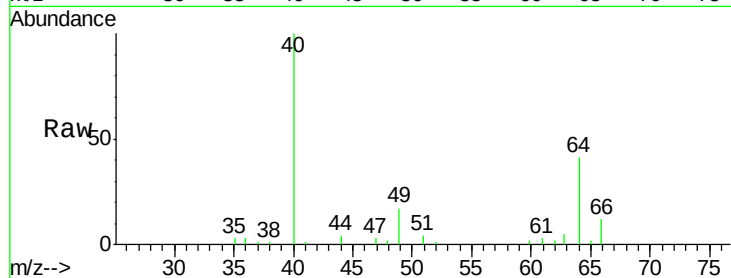
66 28.6 26.7 40.1

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#8

Dichlorotetrafluoroethane

Concen: 1.081 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033444.D

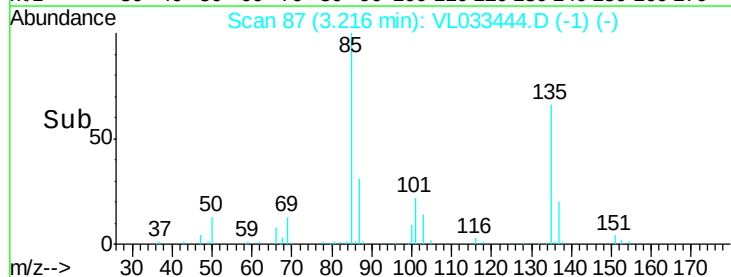
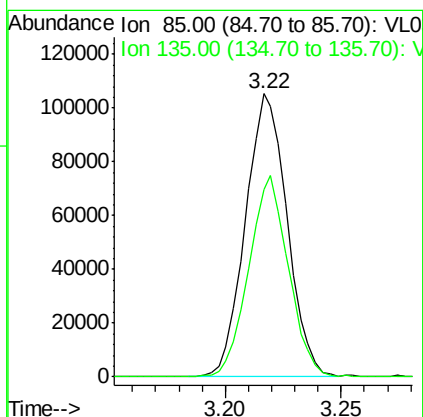
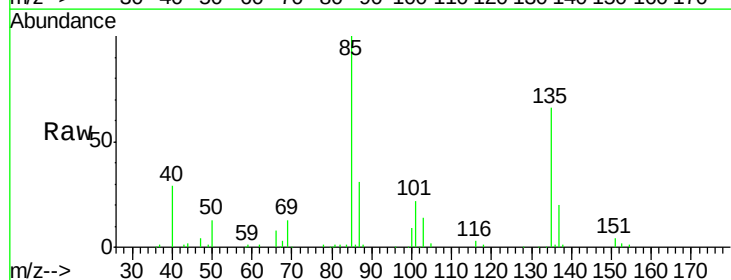
Acq: 25 Mar 2019 20:12

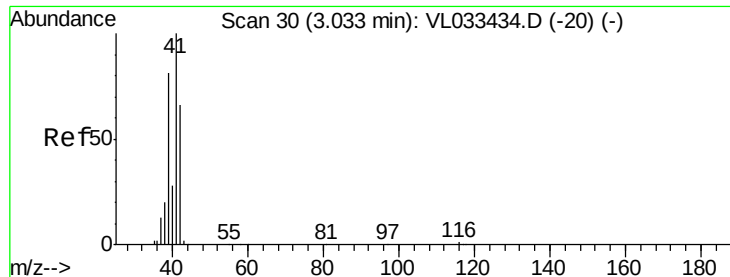
Tgt Ion: 85 Resp: 131833

Ion Ratio Lower Upper

85 100

135 67.5 54.0 81.0





#9

Propene

Concen: 1.009 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion: 41 Resp: 38309

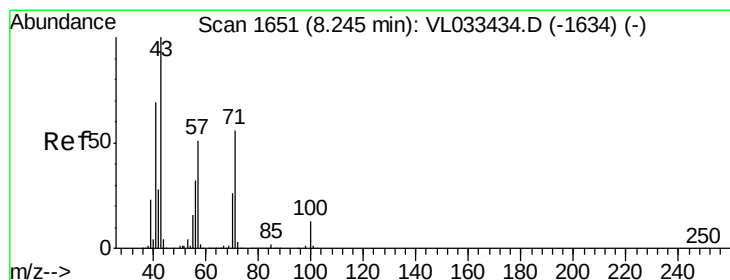
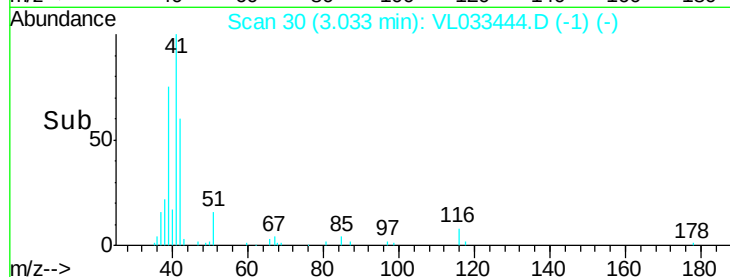
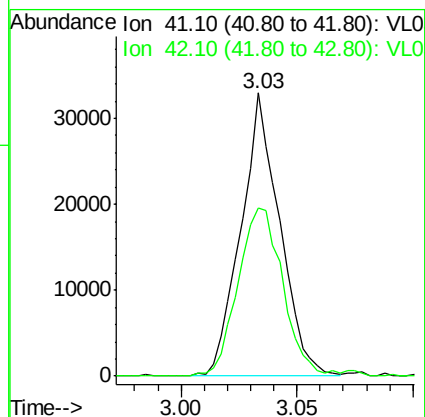
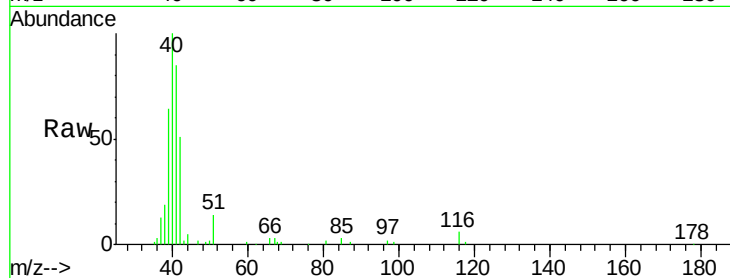
Ion Ratio Lower Upper

41 100

42 69.6 53.9 80.9

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4/1/2019 1:56:38 AM



#10

Heptane

Concen: 0.911 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033444.D

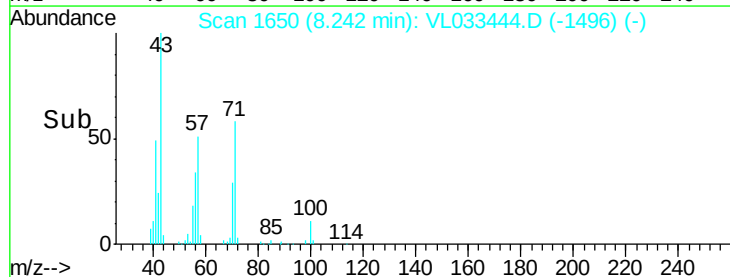
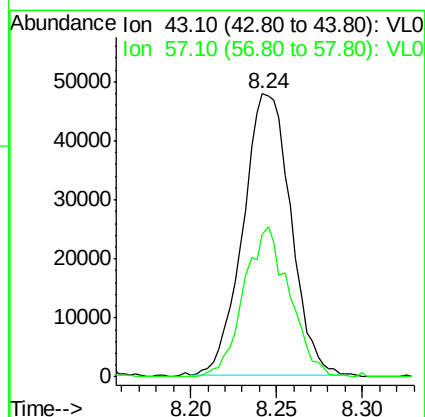
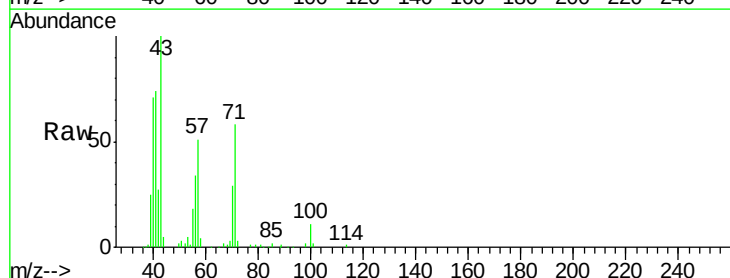
Acq: 25 Mar 2019 20:12

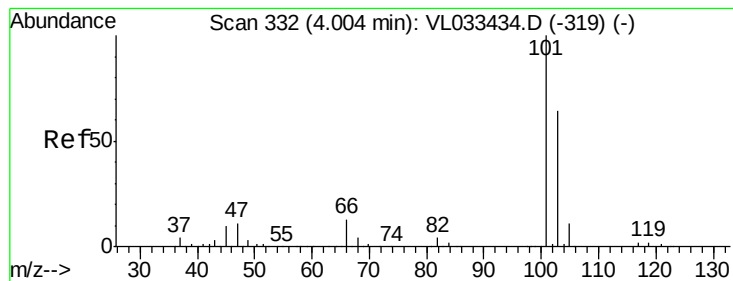
Tgt Ion: 43 Resp: 92378

Ion Ratio Lower Upper

43 100

57 51.2 40.6 60.8





#11

Trichlorofluoromethane

Concen: 1.029 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

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MSVOA_L

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LOQ-AIR-02-QT1-2019

Tot Ion:101 Resp: 145152

Ion Ratio Lower Upper

101 100

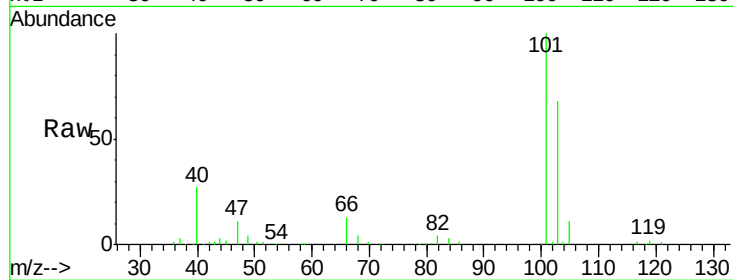
103 68.5 51.3 76.9

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4/1/2019 1:56:38 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.00

100000

80000

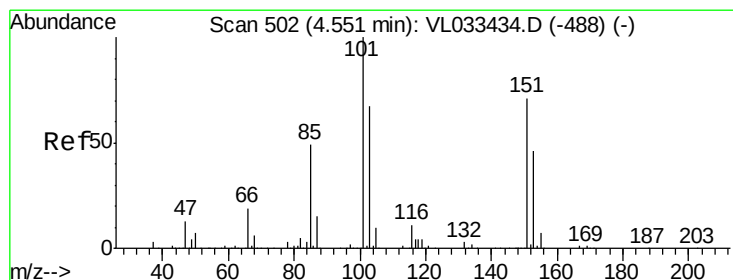
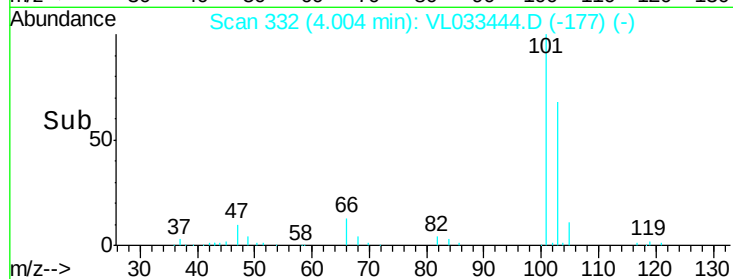
60000

40000

20000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.054 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033444.D

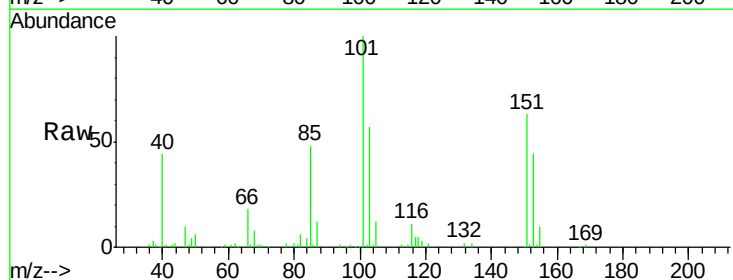
Acq: 25 Mar 2019 20:12

Tgt Ion:101 Resp: 99888

Ion Ratio Lower Upper

101 100

151 69.5 57.7 86.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.55

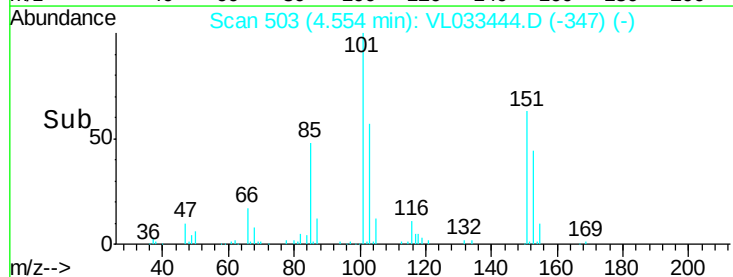
60000

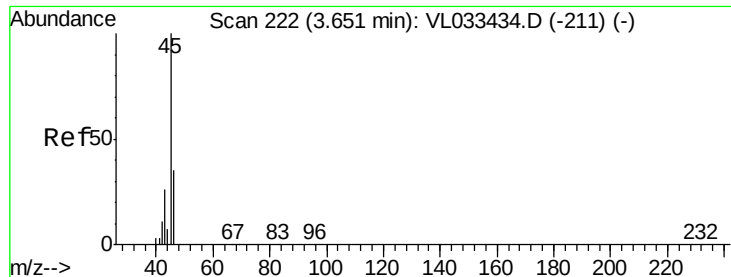
40000

20000

0

Time-->





#13

Ethanol

Concen: 1.314 ppbv m

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion: 45 Resp: 12902

Ion Ratio Lower Upper

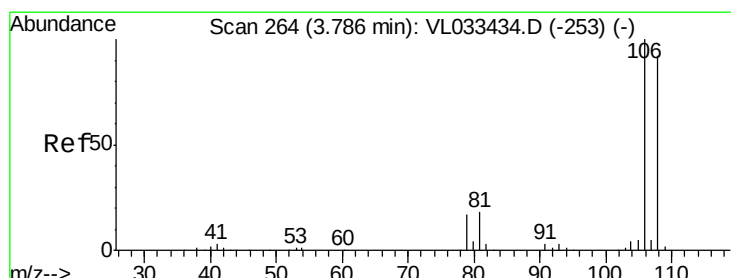
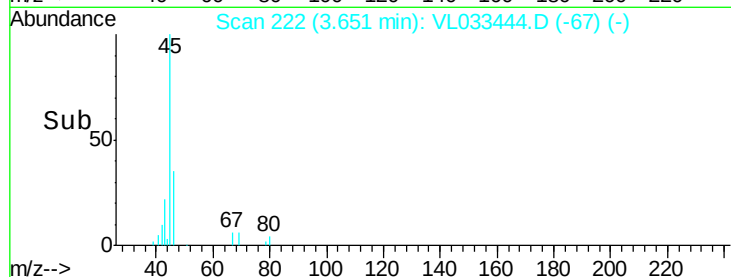
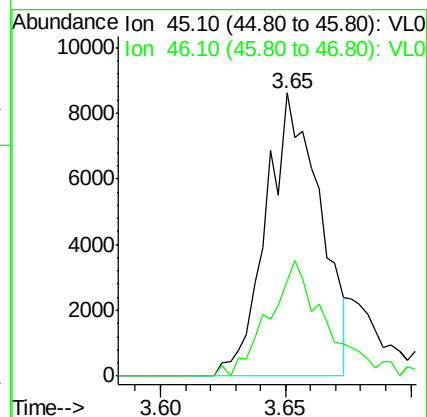
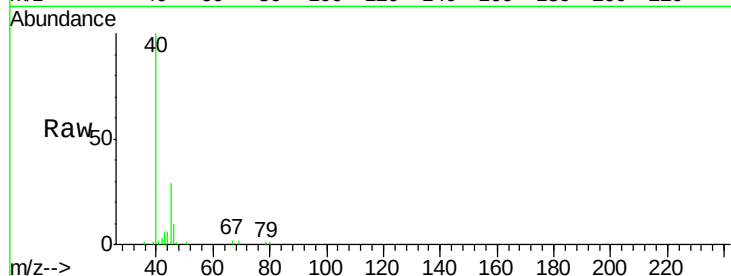
45 100

46 43.8 25.4 101.8

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MMDadoda

4/1/2019 1:56:38 AM



#14

Bromoethene

Concen: 1.024 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

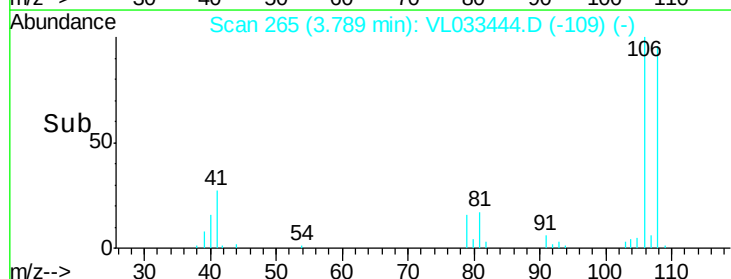
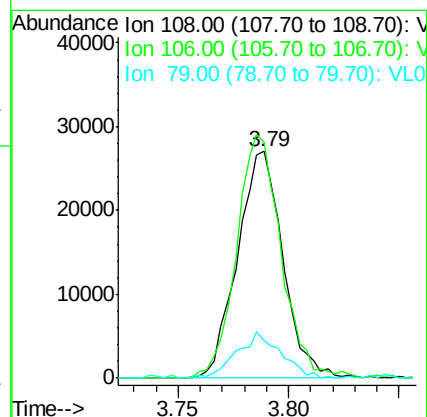
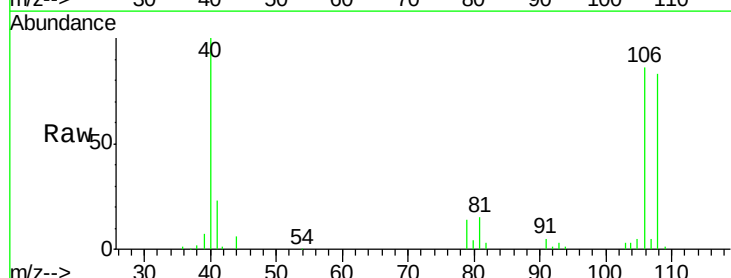
Tgt Ion: 108 Resp: 38720

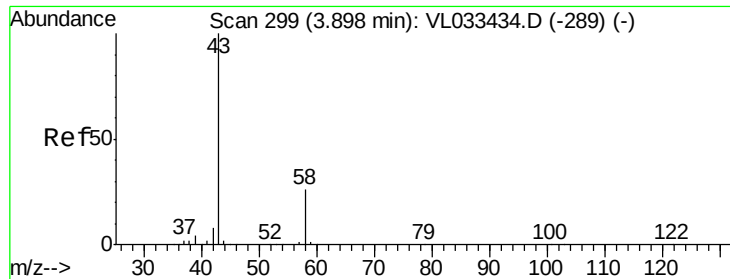
Ion Ratio Lower Upper

108 100

106 105.9 86.4 129.6

79 19.9 15.8 23.8





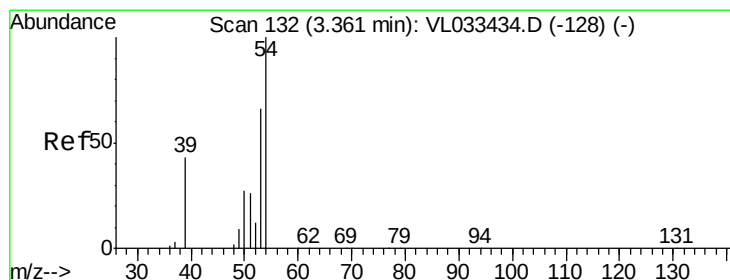
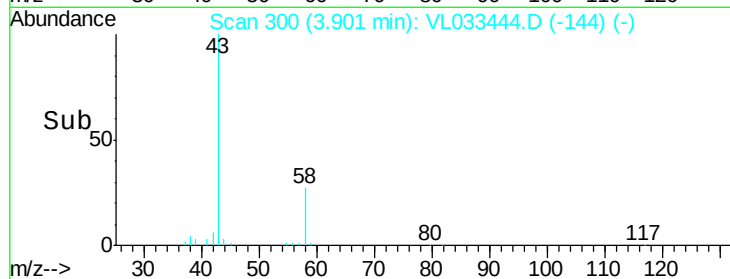
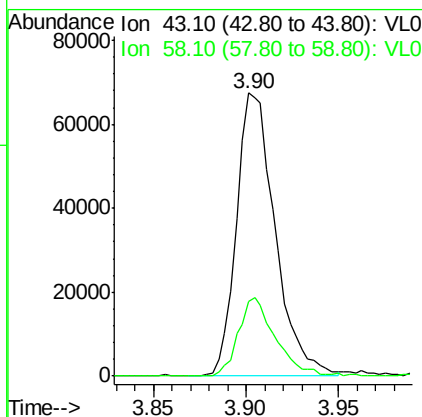
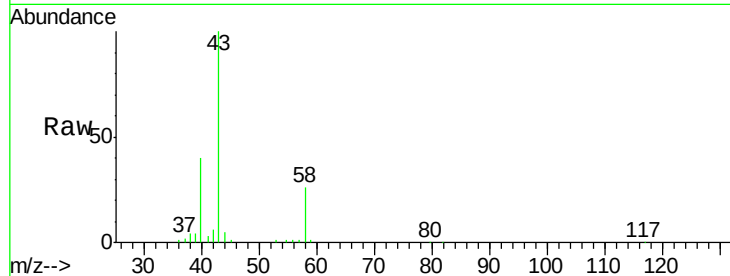
#15
Acetone
Concen: 1.039 ppbv
RT: 3.90 min Scan# 300
Delta R.T. 0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

Tot Ion: 43 Resp: 98069
Ion Ratio Lower Upper
43 100
58 26.5 20.5 30.7

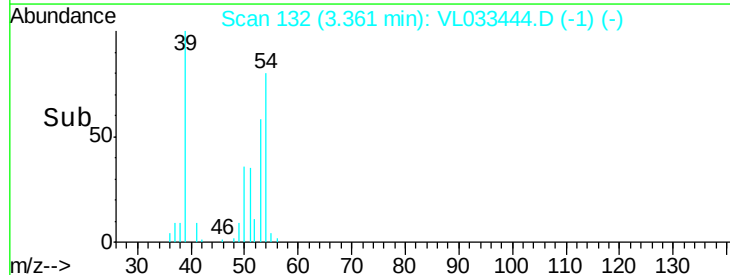
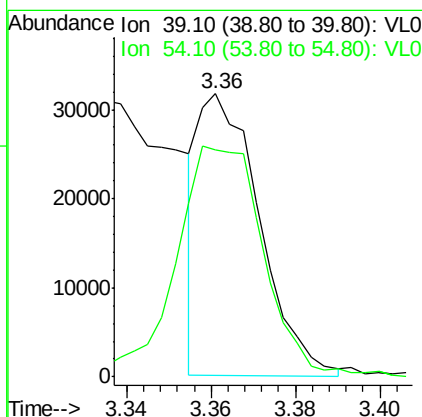
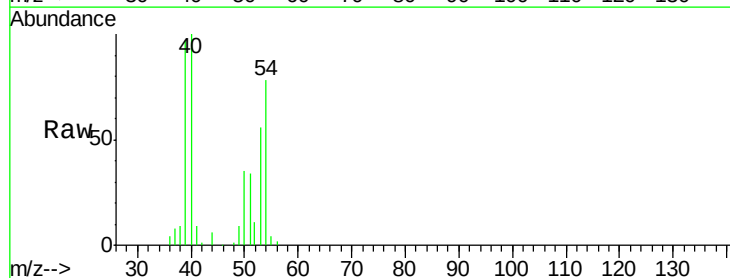
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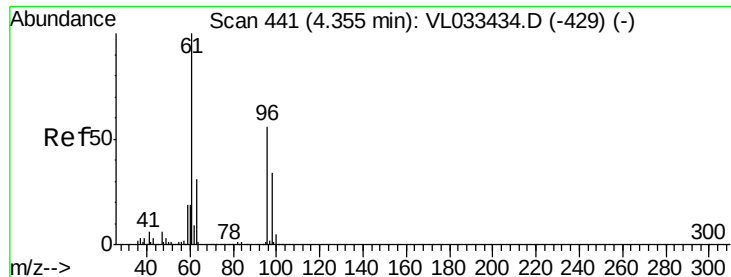
MMDadoda
4/1/2019 1:56:38 AM



#16
1,3-Butadiene
Concen: 0.843 ppbv
RT: 3.36 min Scan# 132
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion: 39 Resp: 31570
Ion Ratio Lower Upper
39 100
54 120.7 69.4 104.2#





#17

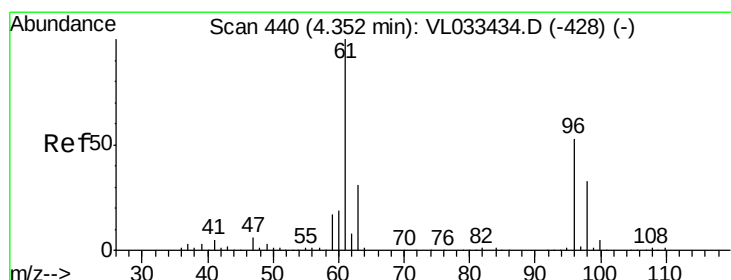
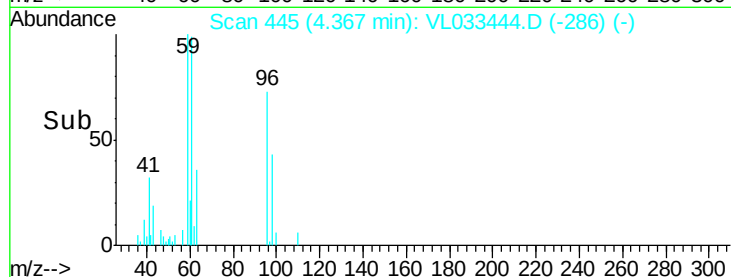
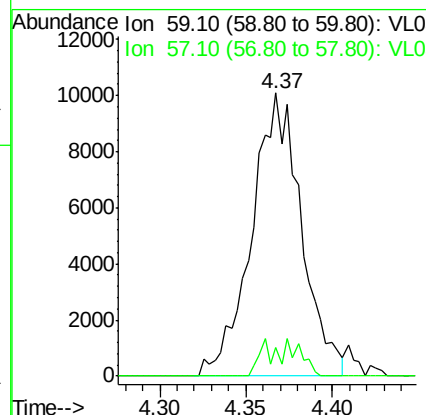
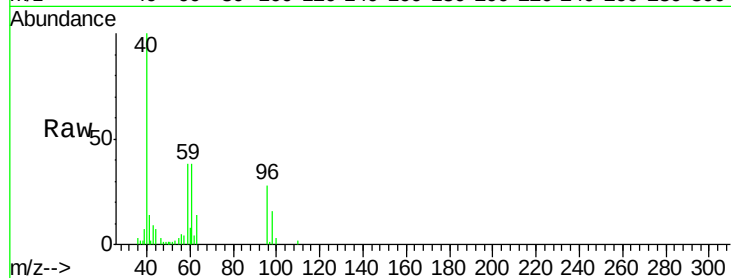
tert-Butyl alcohol
Concen: 1.162 ppbv
RT: 4.37 min Scan# 445
Delta R.T. 0.01 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

Tot Ion	59	Resp	20160
Ion	Ratio	Lower	Upper
59	100		
57	8.5	7.8	11.8

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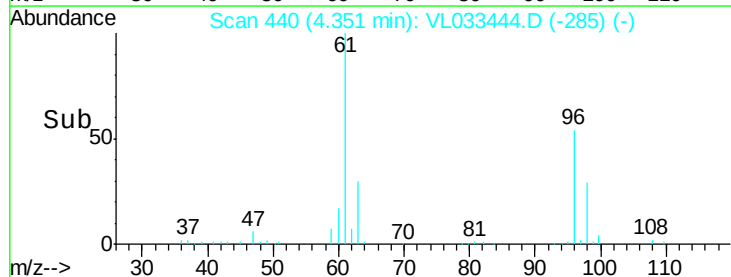
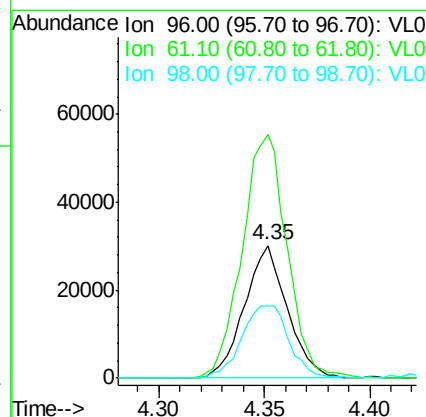
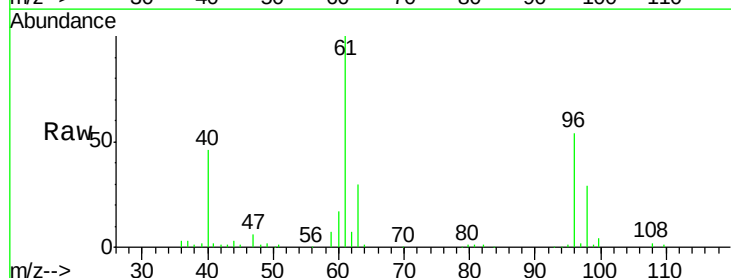
MMDadoda
4/1/2019 1:56:38 AM

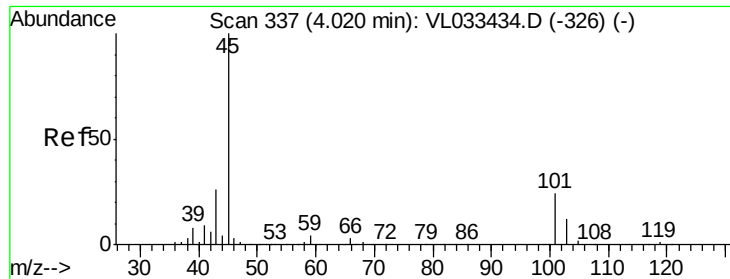


#18

1,1-Dichloroethene
Concen: 1.046 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion	96	Resp	42575
Ion	Ratio	Lower	Upper
96	100		
61	183.5	149.8	224.6
98	53.9	48.7	73.1





#19

Isopropyl Alcohol

Concen: 1.121 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion: 45 Resp: 66932

Ion Ratio Lower Upper

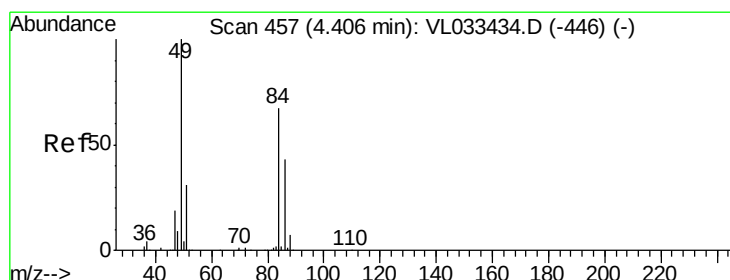
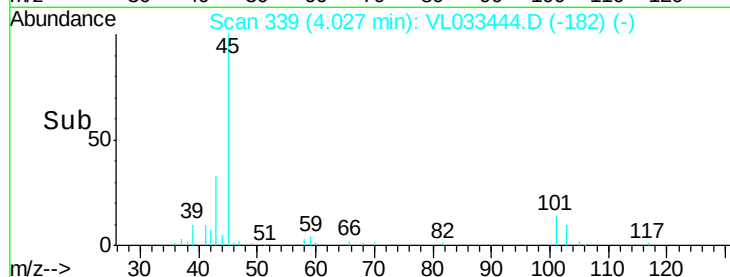
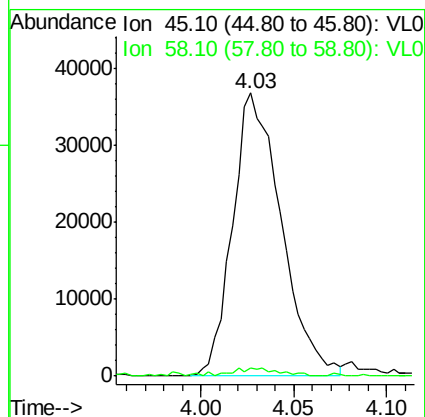
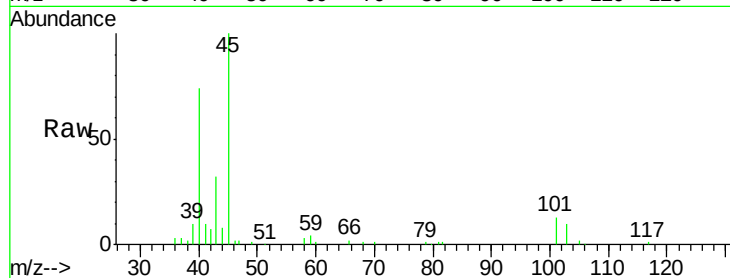
45 100

58 2.9 1.4 2.2#

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4/1/2019 1:56:38 AM



#20

Methylene Chloride

Concen: 1.027 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion: 84 Resp: 41145

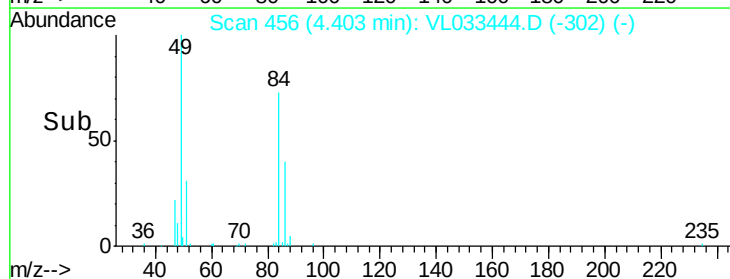
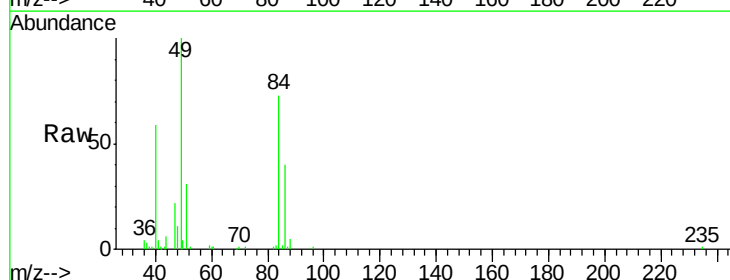
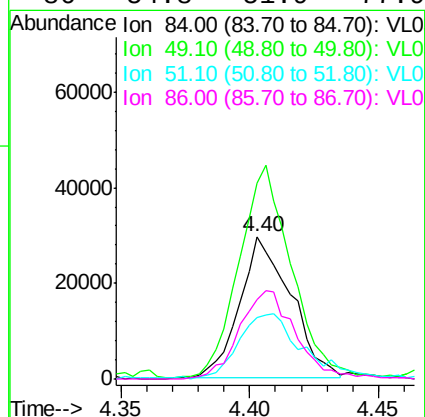
Ion Ratio Lower Upper

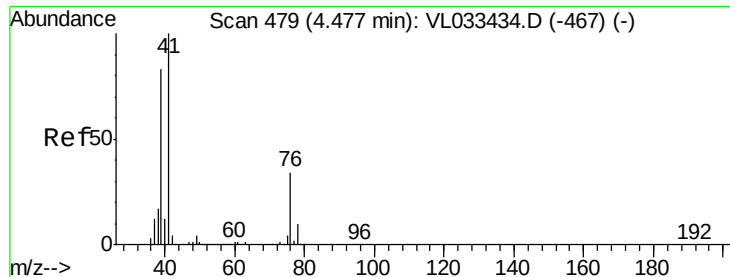
84 100

49 142.7 120.0 180.0

51 43.7 36.7 55.1

86 54.8 51.9 77.9





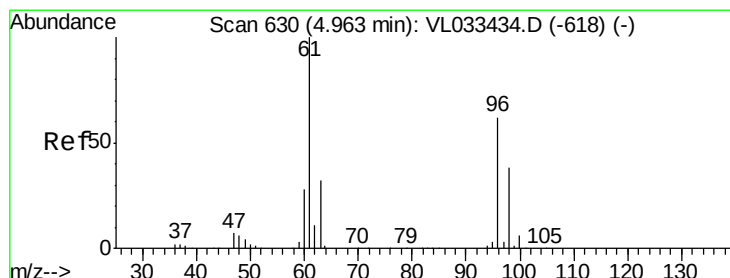
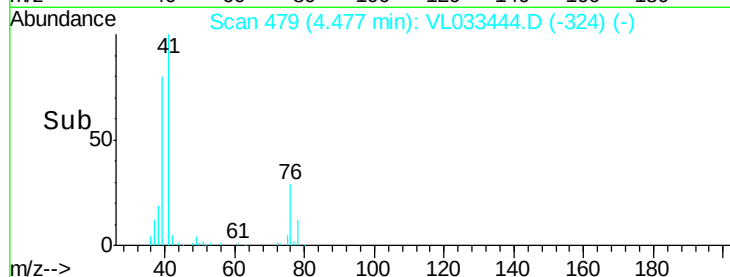
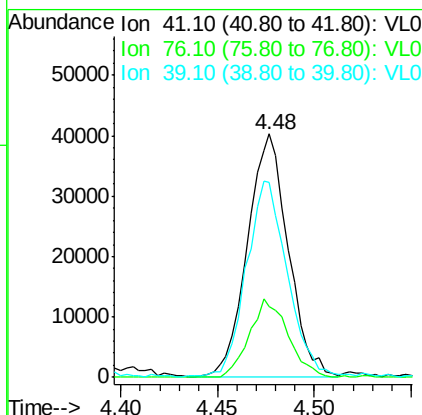
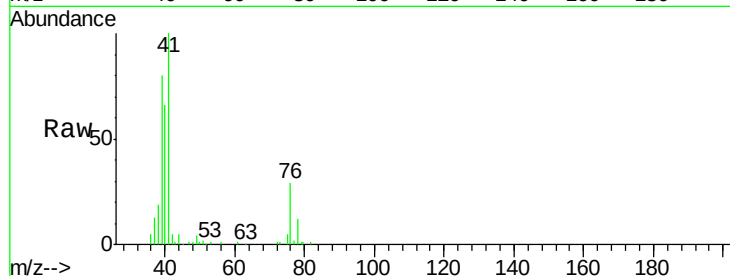
#21
Allvl Chloride
Concen: 0.994 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.4	25.4	38.2
39	82.7	65.3	97.9

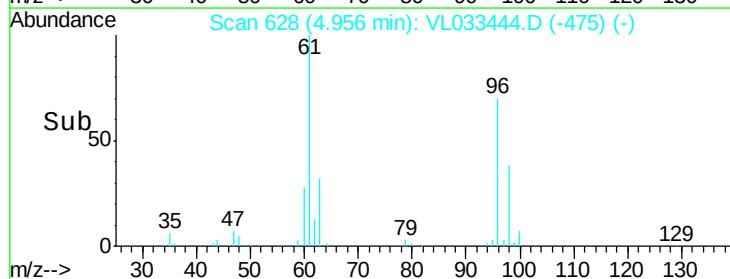
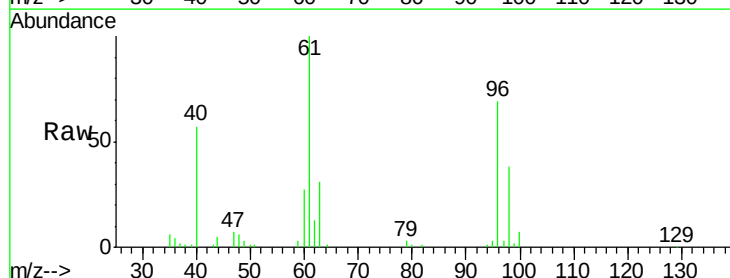
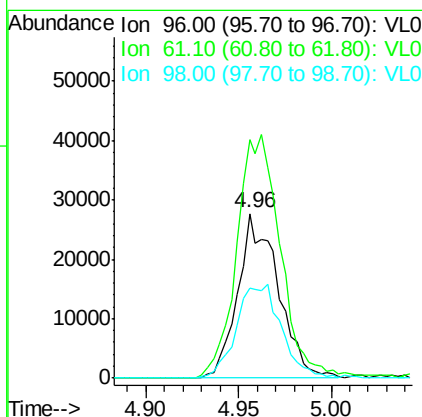
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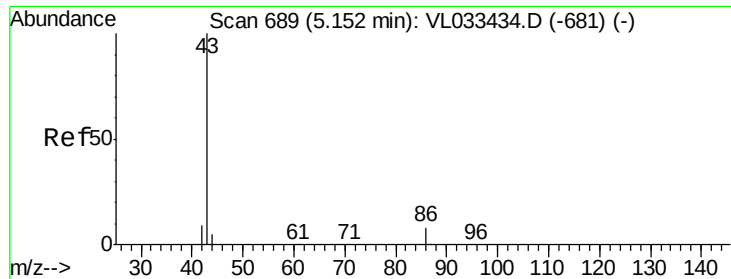
MMDadoda
4/1/2019 1:56:38 AM



#22
trans-1,2-Dichloroethene
Concen: 0.985 ppbv m
RT: 4.96 min Scan# 628
Delta R.T. -0.01 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion	Ratio	Lower	Upper
96	100		
61	145.2	128.9	193.3
98	55.1	49.5	74.3





#23

Vinyl Acetate

Concen: 0.961 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

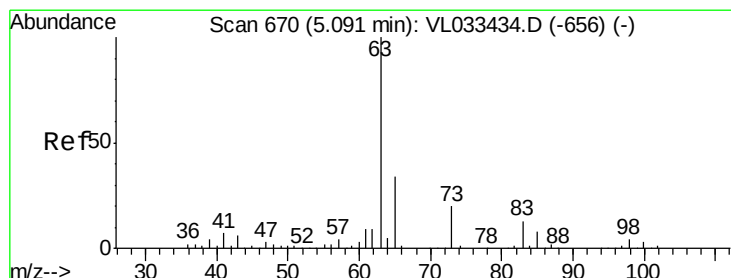
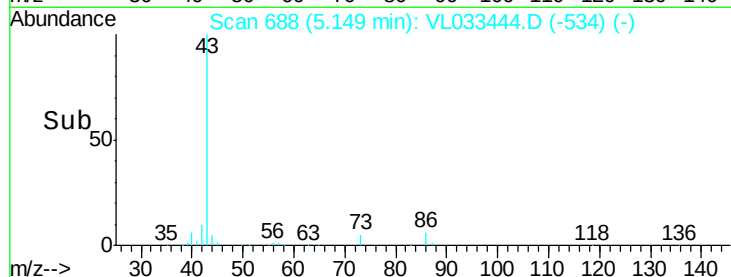
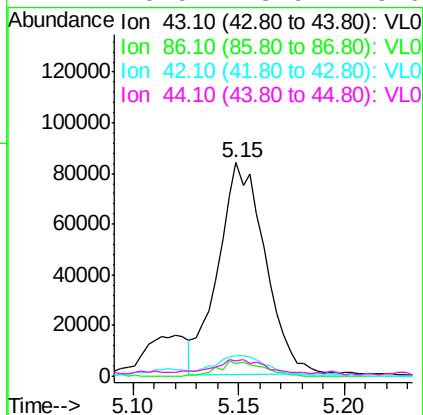
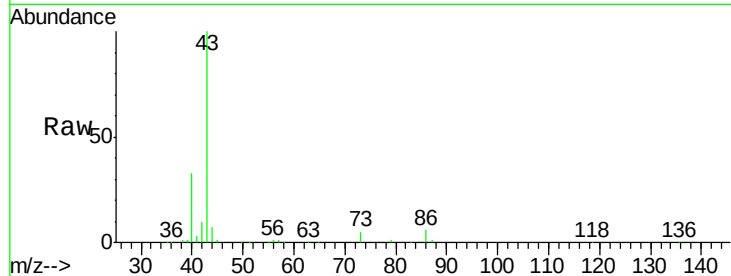
ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion	43	Resp	129141
Ion Ratio	Lower	Upper	
43	100		
86	6.3	5.6	8.4
42	9.4	8.0	12.0
44	6.0	3.9	5.9#

Manual Integrations
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MMDadoda
4/1/2019 1:56:38 AM



#24

1,1-Dichloroethane

Concen: 0.983 ppbv

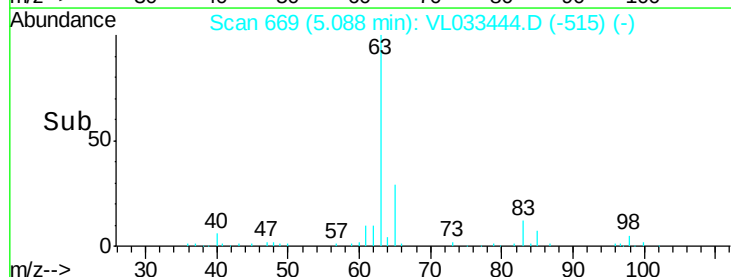
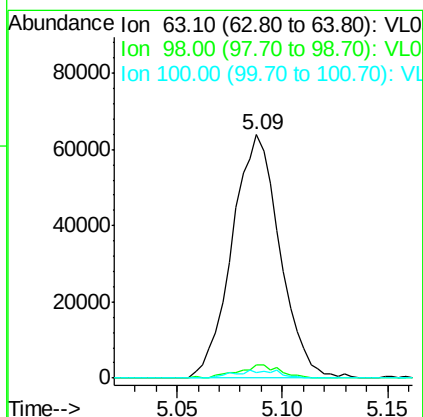
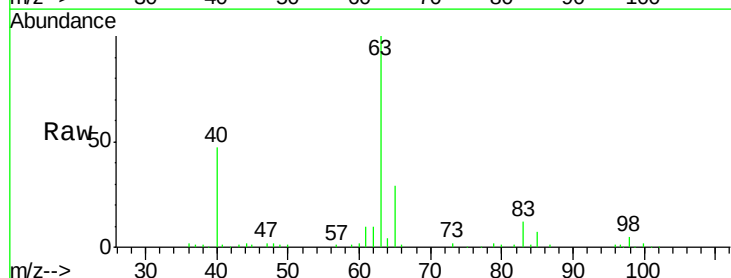
RT: 5.09 min Scan# 669

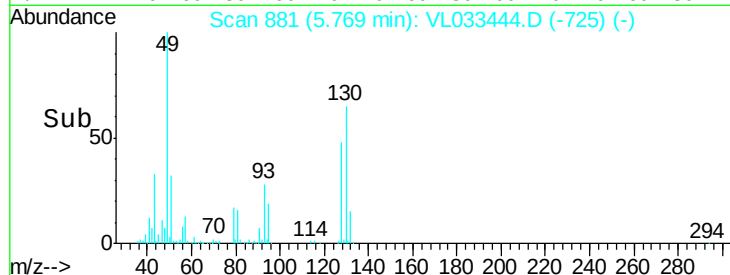
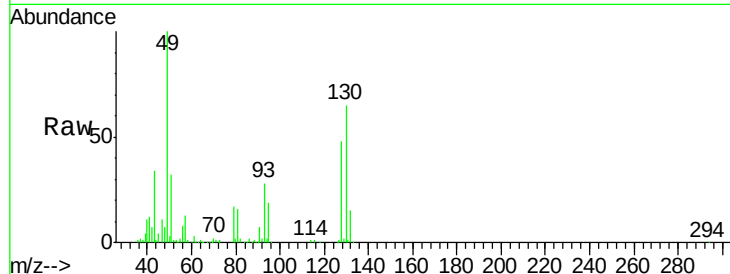
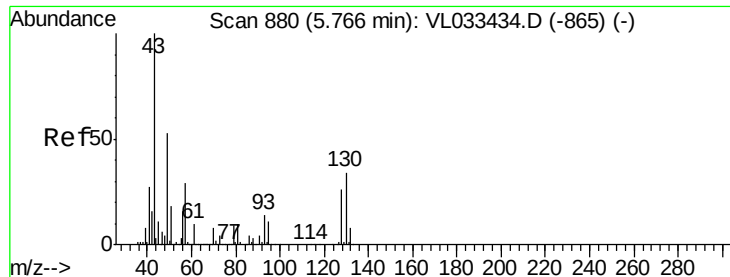
Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion	63	Resp	100317
Ion Ratio	Lower	Upper	
63	100		
98	5.7	2.2	6.6
100	2.3	1.5	4.4





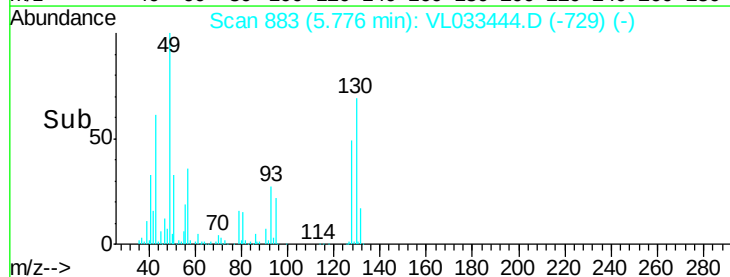
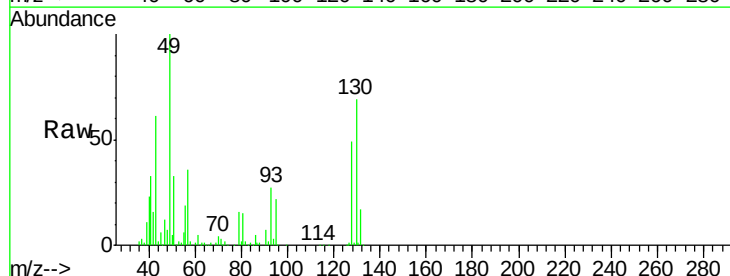
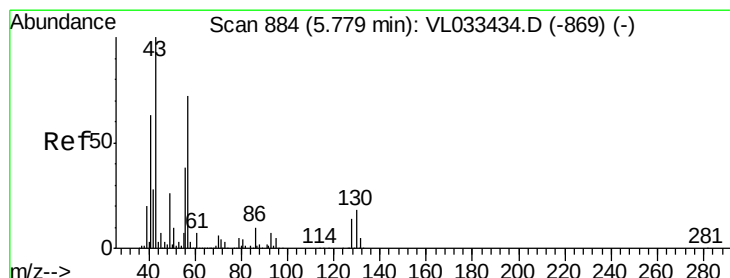
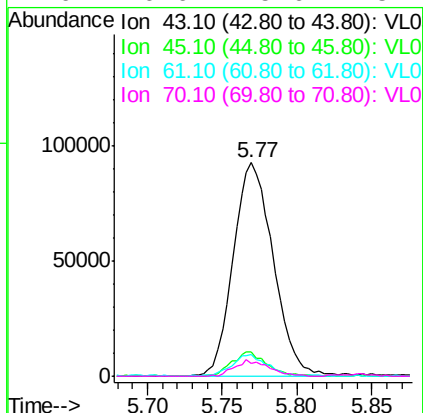
#25
Ethyl Acetate
Concen: 0.984 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tot Ion	43	Resp	172330
Ion Ratio	Lower	Upper	
43	100		
45	10.2	7.8	11.6
61	9.2	7.3	10.9
70	6.6	5.6	8.4

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

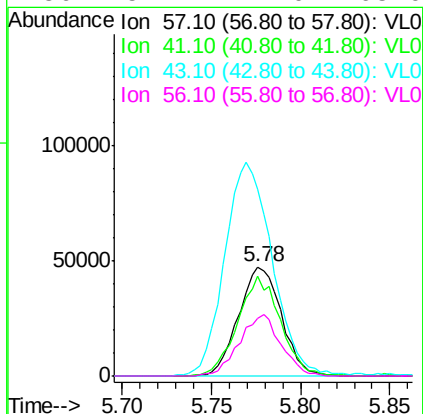
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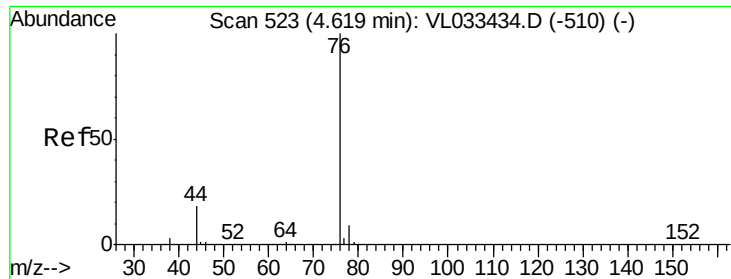
MMDadoda
4/1/2019 1:56:38 AM



#26
Hexane
Concen: 1.020 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion	57	Resp	79453
Ion Ratio	Lower	Upper	
57	100		
41	91.4	70.7	106.1
43	220.0	182.6	274.0
56	54.7	42.0	63.0





#27

Carbon Disulfide

Concen: 0.929 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

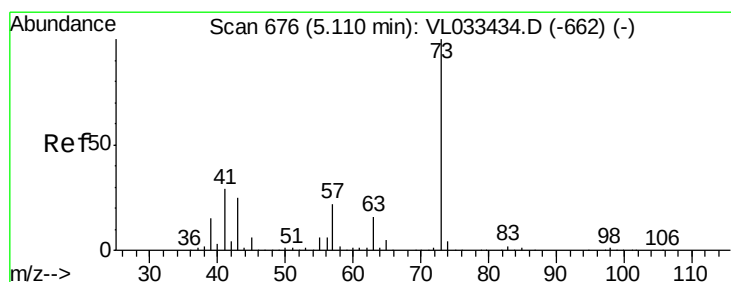
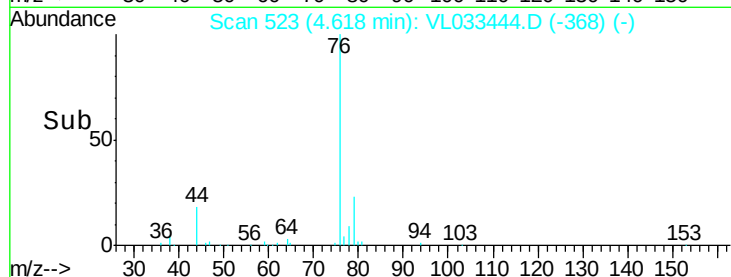
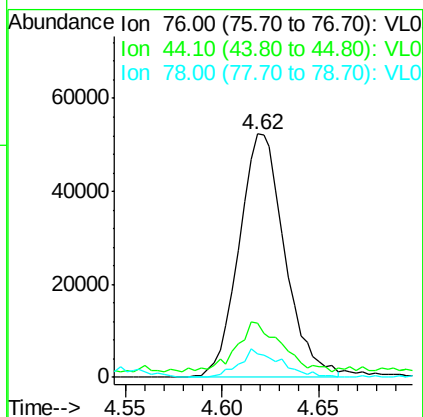
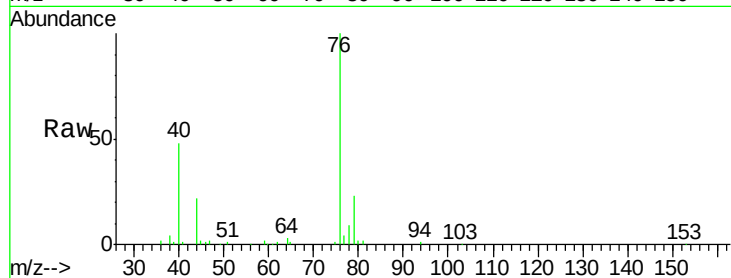
ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion:	76	Resp:	85988
Ion	Ratio	Lower	Upper
76	100		
44	19.6	14.8	22.2
78	10.4	7.6	11.4

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MMDadoda
4/1/2019 1:56:38 AM



#28

Methyl tert-Butyl Ether

Concen: 0.978 ppbv

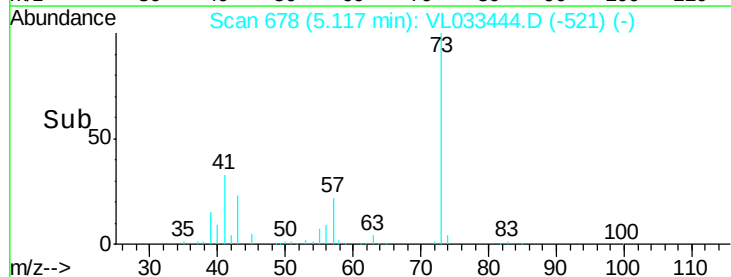
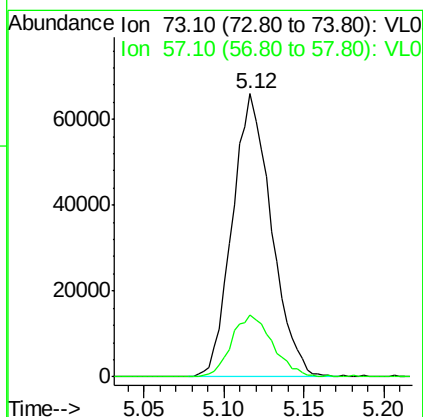
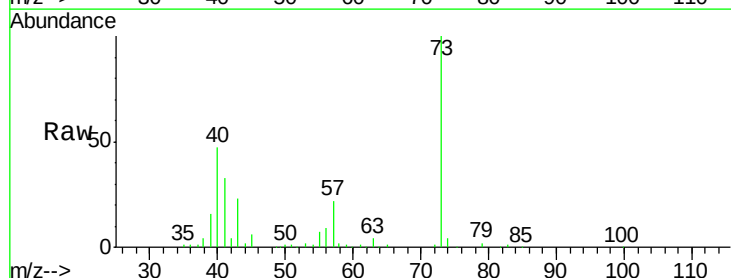
RT: 5.12 min Scan# 678

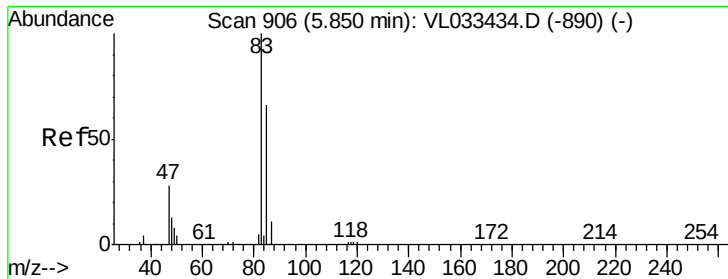
Delta R.T. 0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion:	73	Resp:	109686
Ion	Ratio	Lower	Upper
73	100		
57	23.1	17.4	26.2





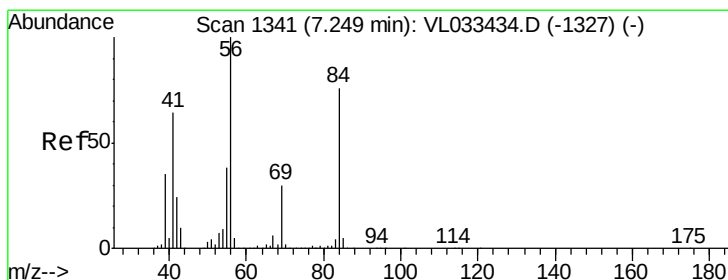
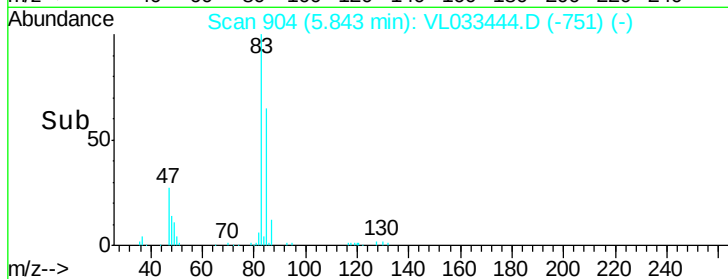
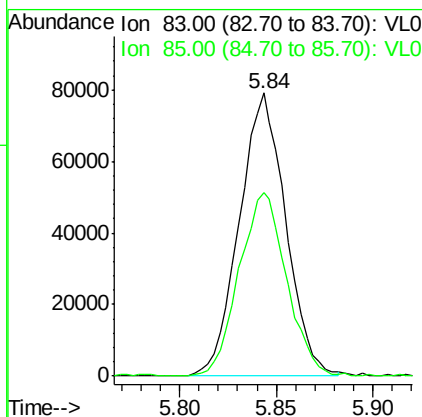
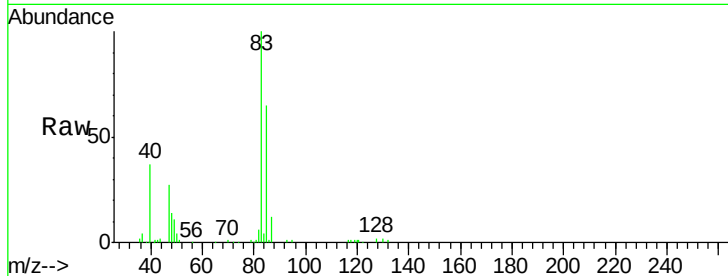
#29
Chloroform
Concen: 0.987 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

Tot Ion	83	Resp	131729
Ion Ratio	Lower	Upper	
83	100		
85	65.0	52.6	79.0

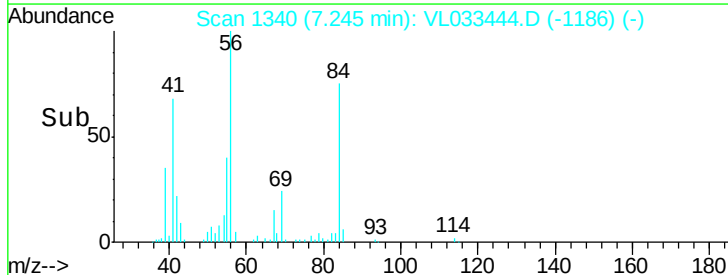
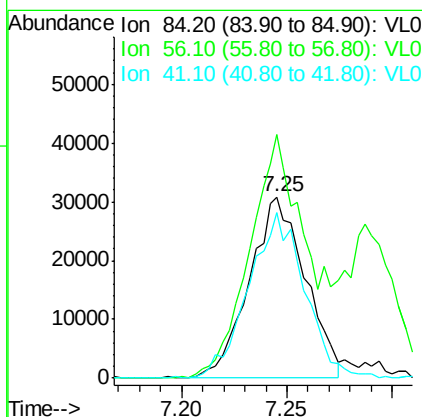
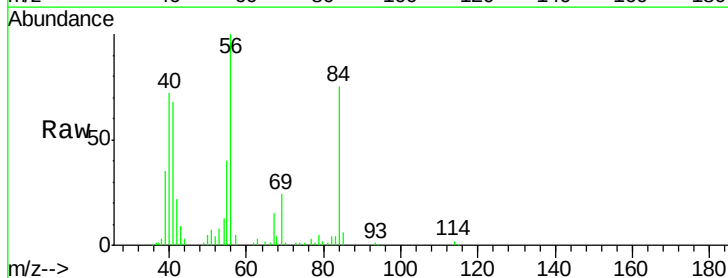
Manual Integrations
APPROVED

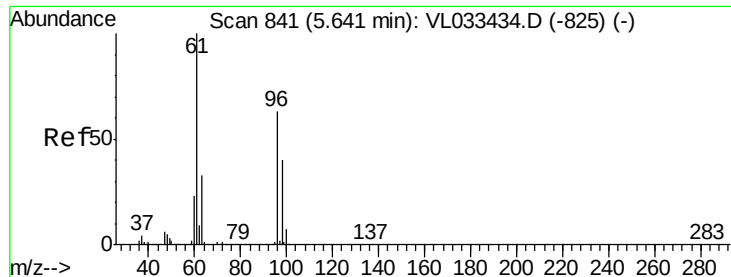
MMDadoda
4/1/2019 1:56:38 AM



#30
Cyclohexane
Concen: 0.924 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion	84	Resp	56939
Ion Ratio	Lower	Upper	
84	100		
56	135.9	109.7	164.5
41	91.7	68.2	102.2





#31

cis-1,2-Dichloroethene

Concen: 0.942 ppbv

RT: 5.64 min Scan# 840

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

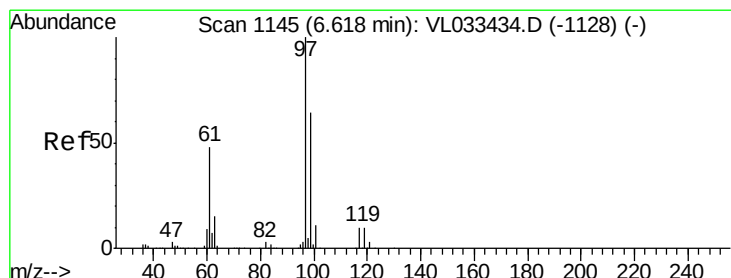
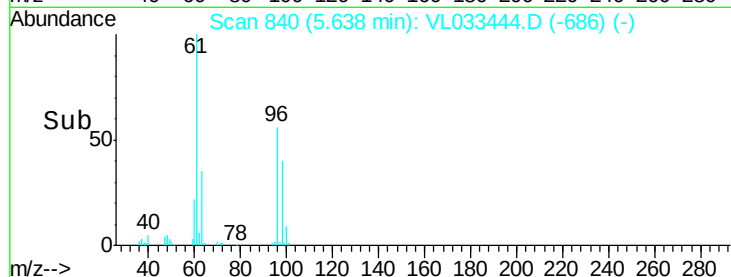
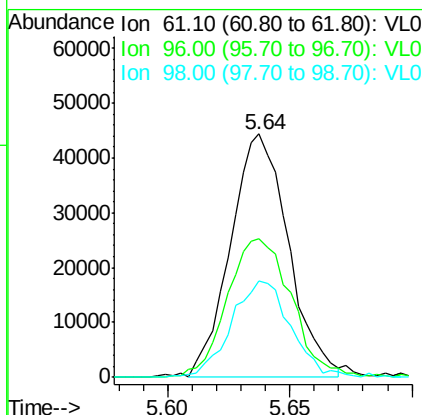
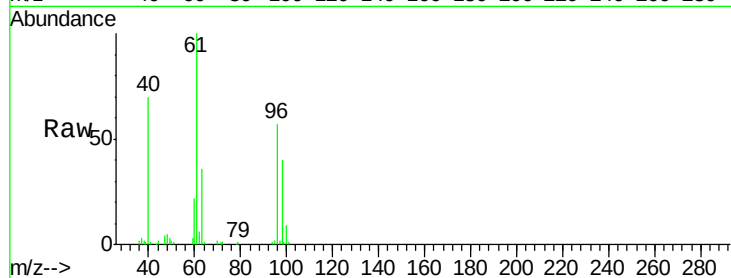
ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion:	61	Resp:	72900
Ion	Ratio	Lower	Upper
61	100		
96	53.2	50.6	76.0
98	38.6	32.2	48.2

Manual Integrations
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MMDadoda
4/1/2019 1:56:38 AM



#32

1,1,1-Trichloroethane

Concen: 1.009 ppbv

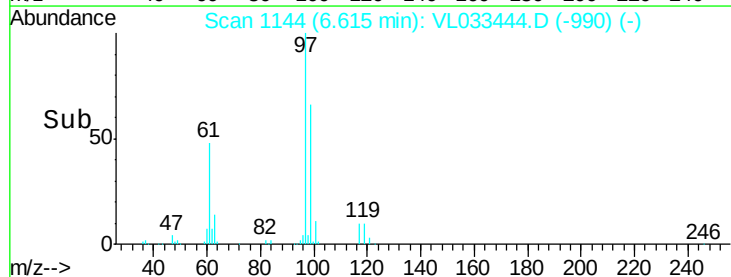
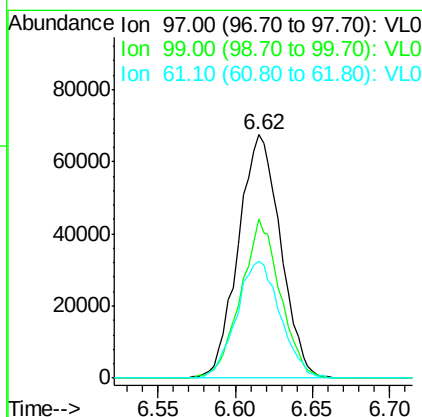
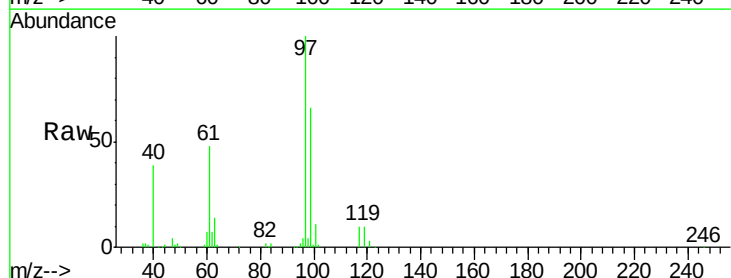
RT: 6.62 min Scan# 1144

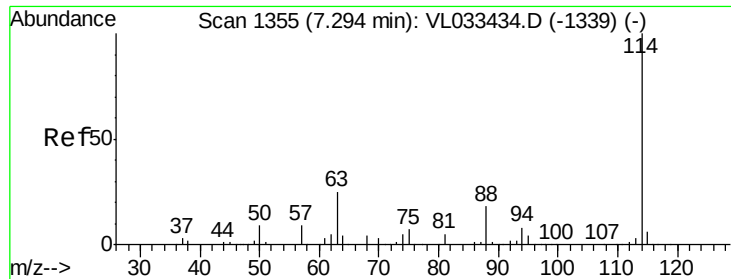
Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion:	97	Resp:	128242
Ion	Ratio	Lower	Upper
97	100		
99	61.0	51.5	77.3
61	49.5	38.8	58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion:114 Resp: 1830322

Ion Ratio Lower Upper

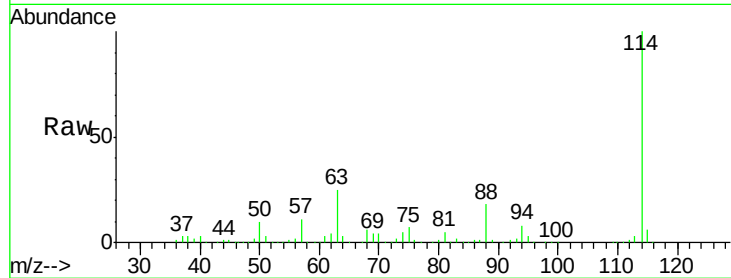
114 100

63 26.4 21.5 32.3

88 18.2 14.5 21.7

Manual Integrations
APPROVED

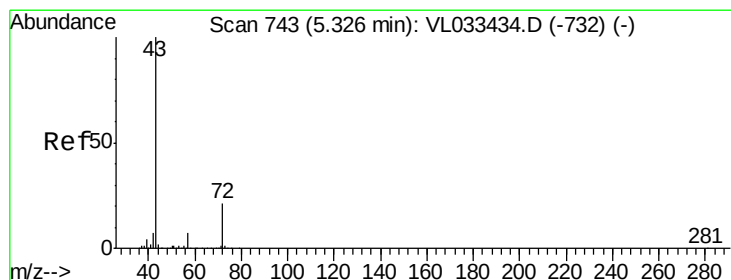
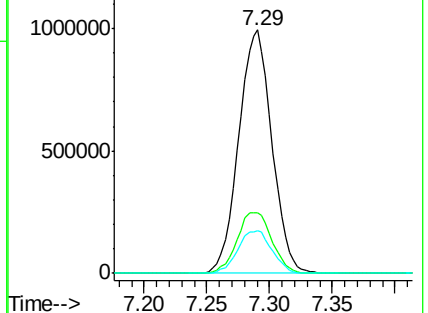
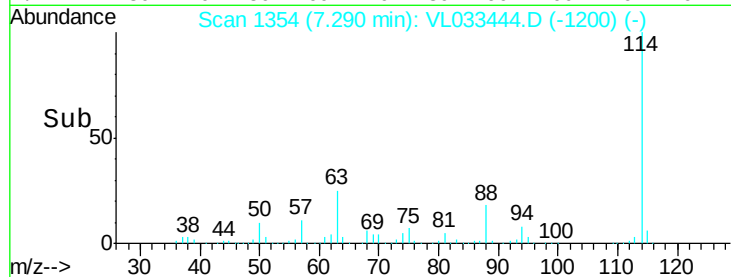
MMDadoda
4/1/2019 1:56:38 AM



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: 0.987 ppbv

RT: 5.33 min Scan# 745

Delta R.T. 0.01 min

Lab File: VL033444.D

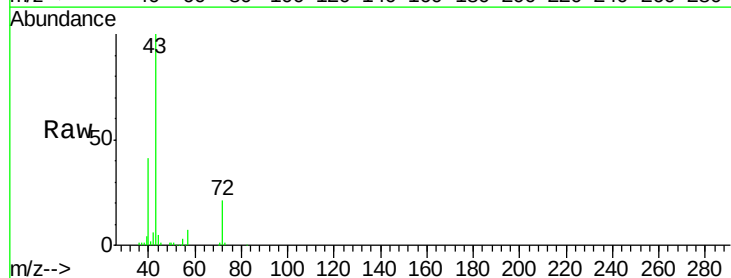
Acq: 25 Mar 2019 20:12

Tgt Ion: 43 Resp: 108581

Ion Ratio Lower Upper

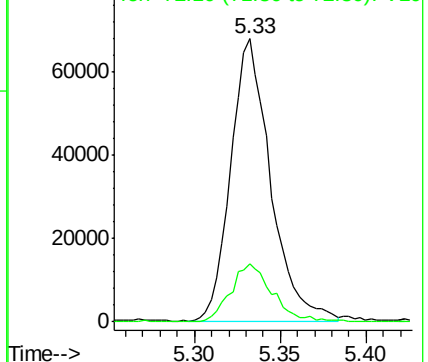
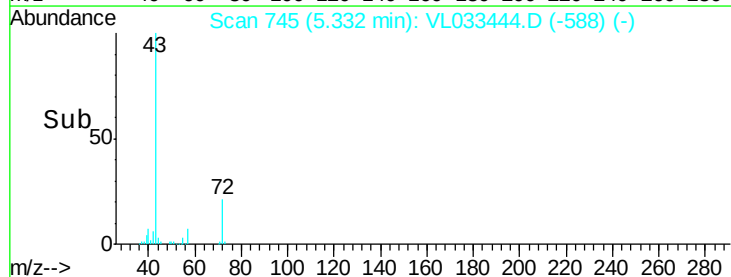
43 100

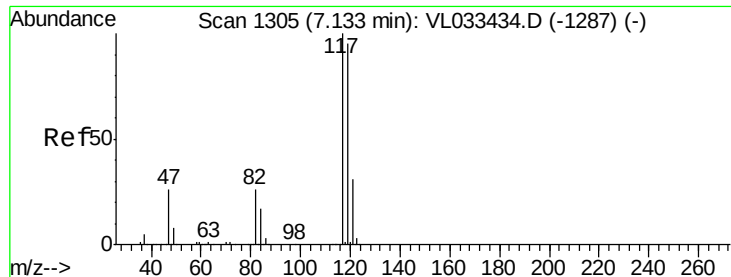
72 21.6 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





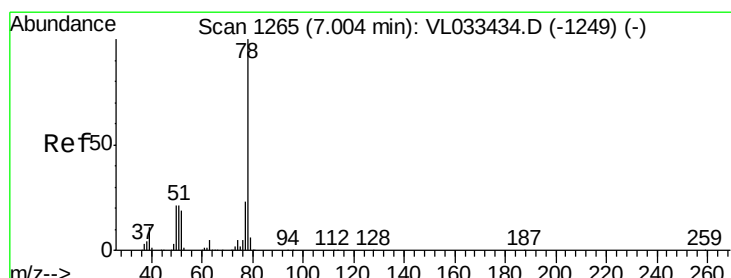
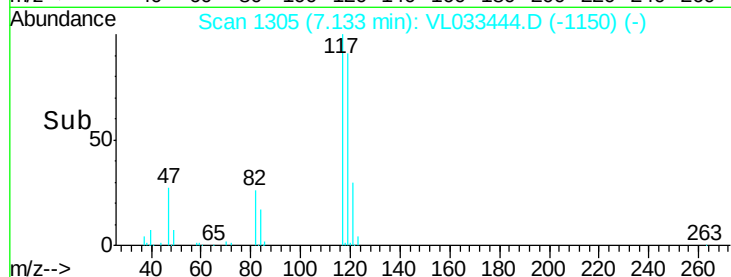
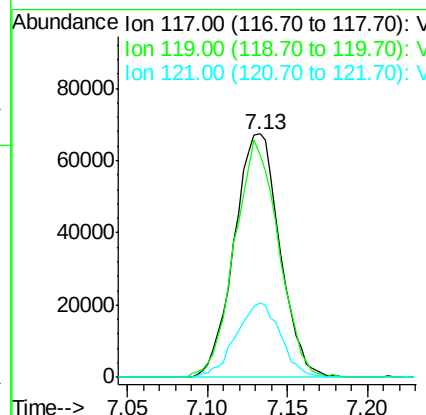
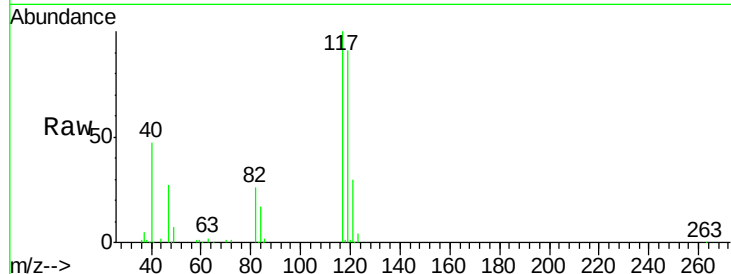
#35
Carbon Tetrachloride
Concen: 1.010 ppbv
RT: 7.13 min Scan# 1305
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
117	100		130885		
119	91.0	75.8	113.8		
121	30.7	24.7	37.1		

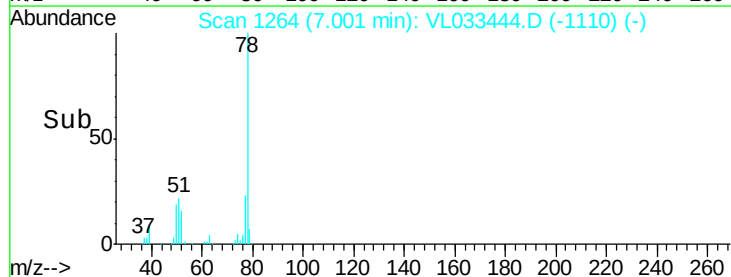
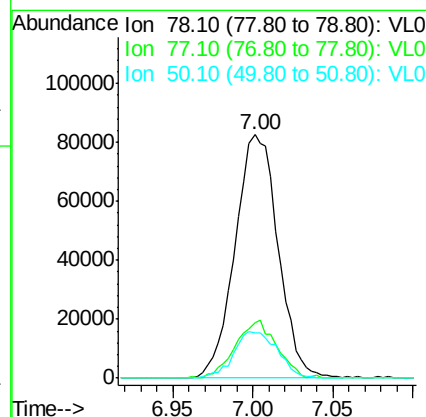
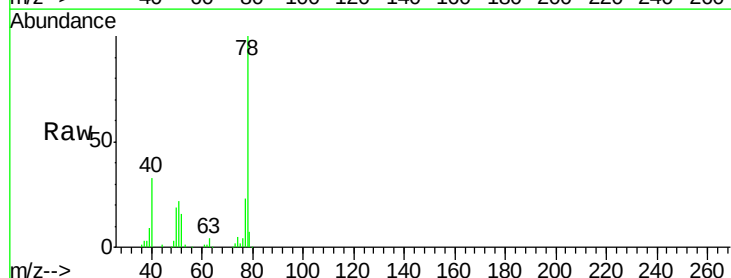
Manual Integrations
APPROVED

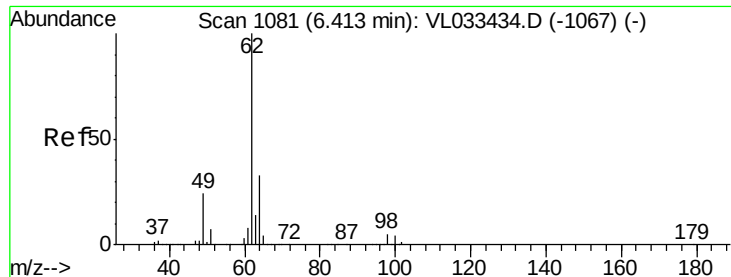
MMDadoda
4/1/2019 1:56:38 AM



#36
Benzene
Concen: 0.986 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
78	100		151450		
77	22.9	18.1	27.1		
50	18.2	16.7	25.1		





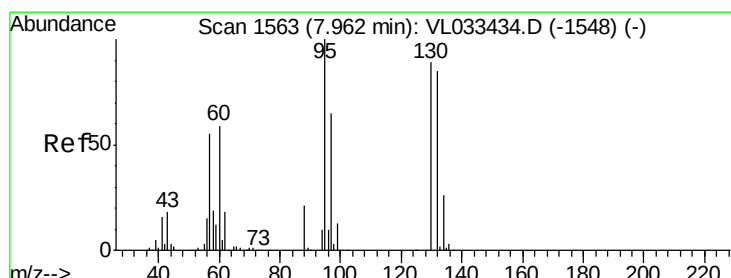
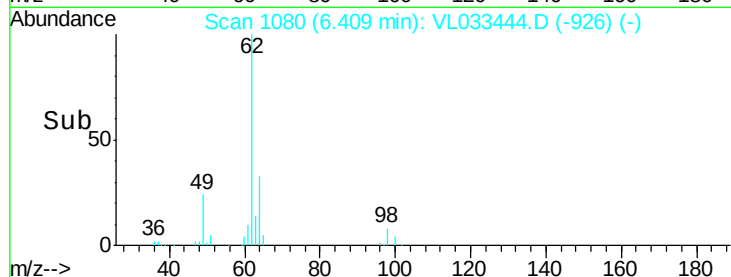
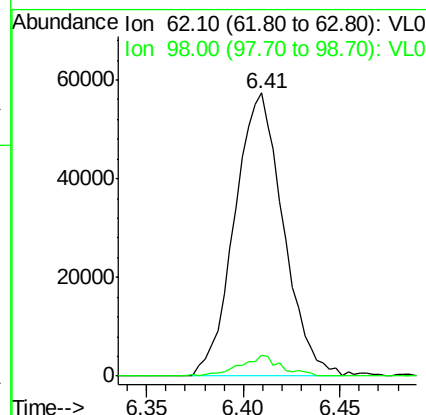
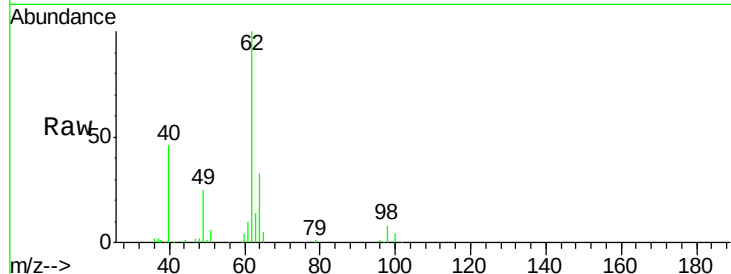
#37
1,2-Dichloroethane
Concen: 0.974 ppbv
RT: 6.41 min Scan# 1080
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
62	100	100221		
98	6.3	4.4	6.6	

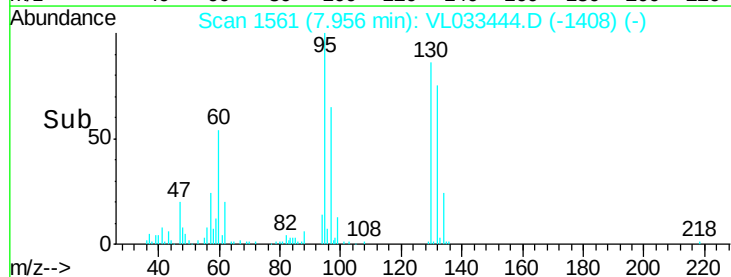
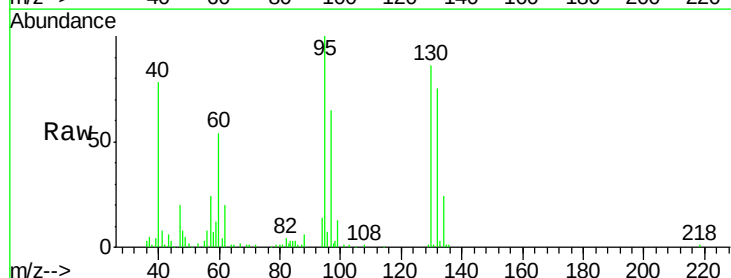
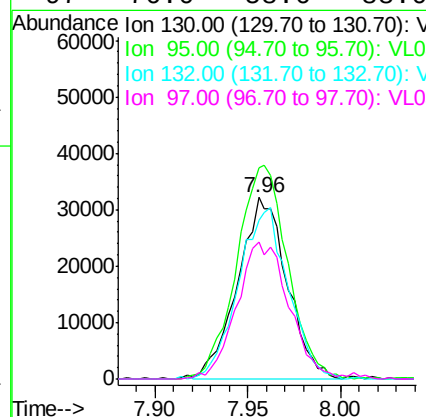
Manual Integrations
APPROVED

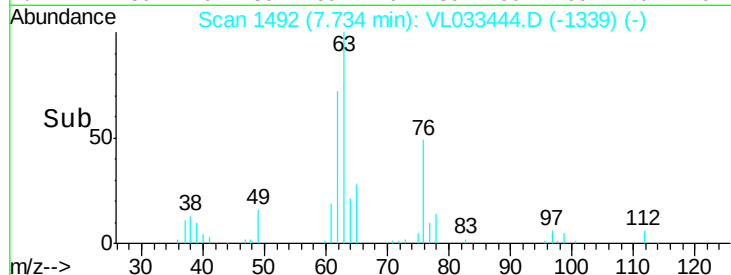
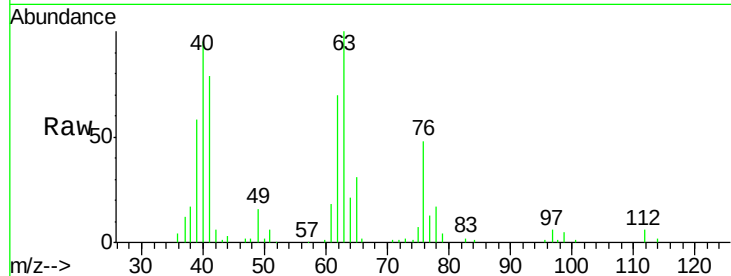
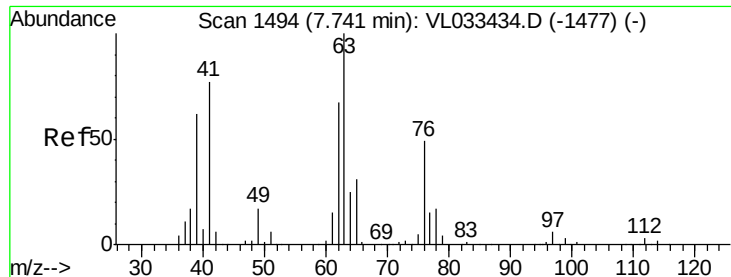
MMDadoda
4/1/2019 1:56:38 AM



#38
Trichloroethene
Concen: 1.027 ppbv
RT: 7.96 min Scan# 1561
Delta R.T. -0.01 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	59369		
95	113.9	89.8	134.8	
132	85.9	76.6	115.0	
97	76.0	58.6	88.0	





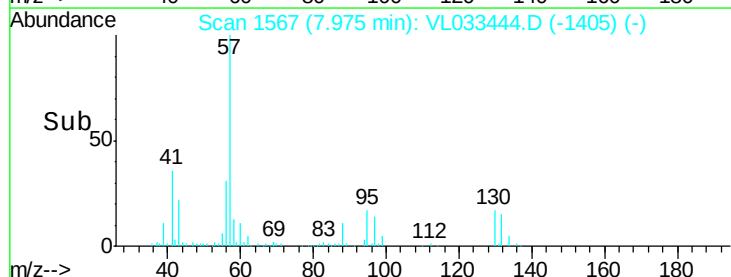
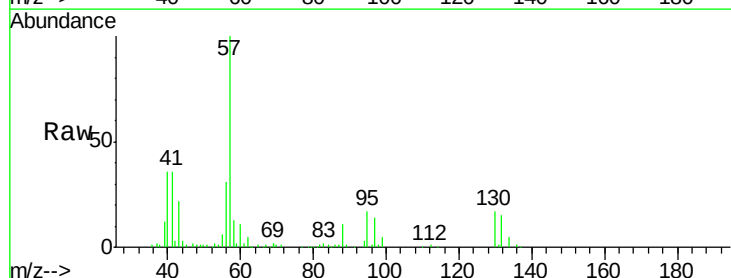
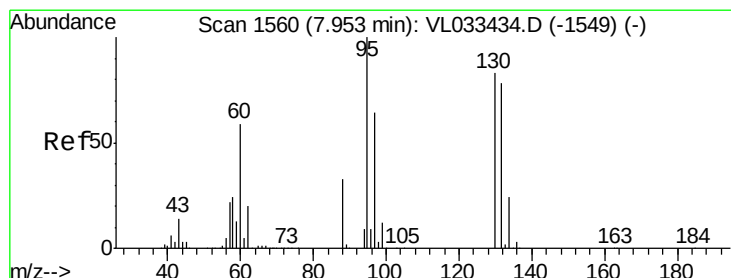
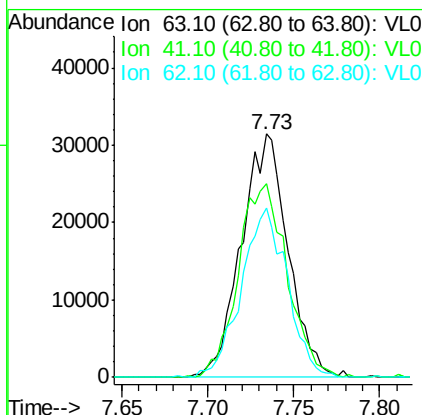
#39
 1,2-Dichloropropane
 Concen: 0.984 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tot Ion	Ratio	Lower	Upper
63	100		
41	78.8	61.2	91.8
62	69.7	54.0	81.0

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

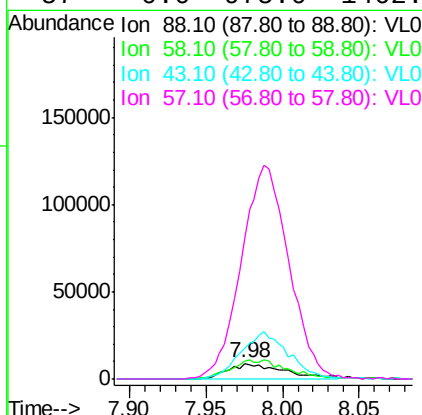
Manual Integrations
 APPROVED

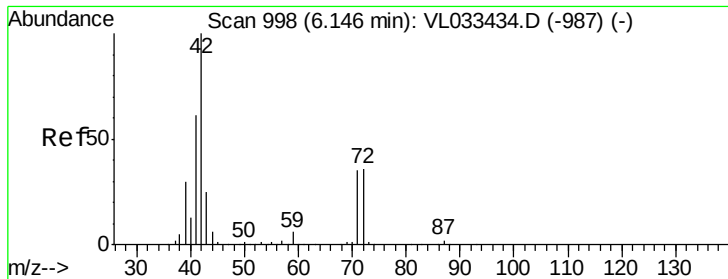
MMDadoda
 4/1/2019 1:56:38 AM



#40
 1,4-Dioxane
 Concen: 1.041 ppbv m
 RT: 7.98 min Scan# 1567
 Delta R.T. 0.02 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	105.6	158.4#
43	0.0	216.7	325.1#
57	0.0	975.0	1462.4#





#41

Tetrahydrofuran

Concen: 0.914 ppbv

RT: 6.16 min Scan# 1003

Delta R.T. 0.02 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

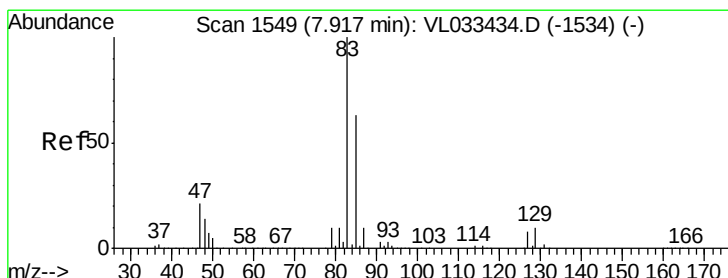
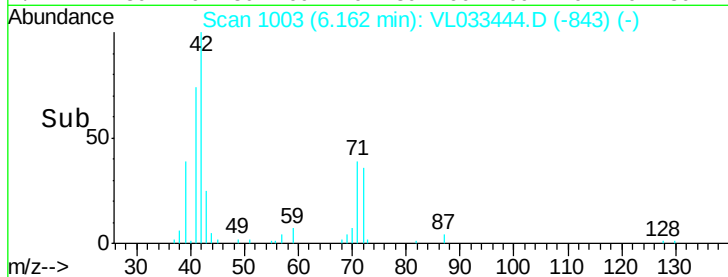
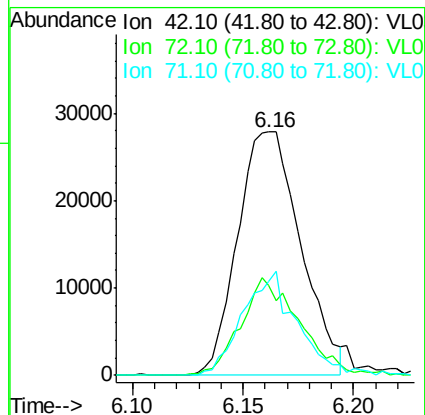
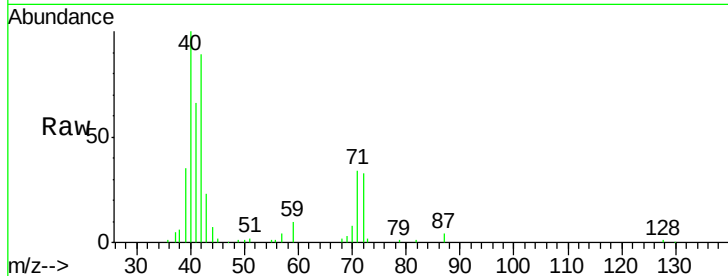
ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion:	42	Resp:	55307
Ion	Ratio	Lower	Upper
42	100		
72	37.8	30.2	45.2
71	37.1	29.4	44.2

Manual Integrations
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MMDadoda
4/1/2019 1:56:38 AM



#42

Bromodichloromethane

Concen: 0.942 ppbv

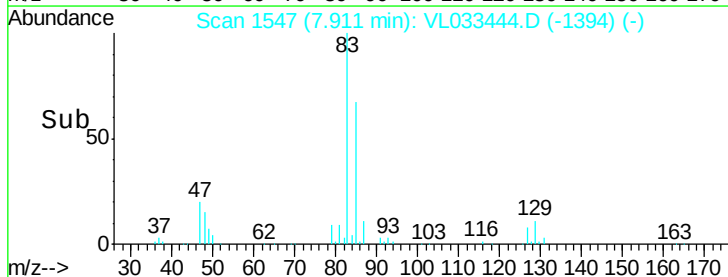
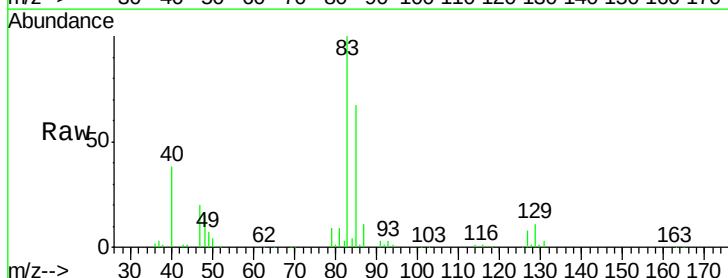
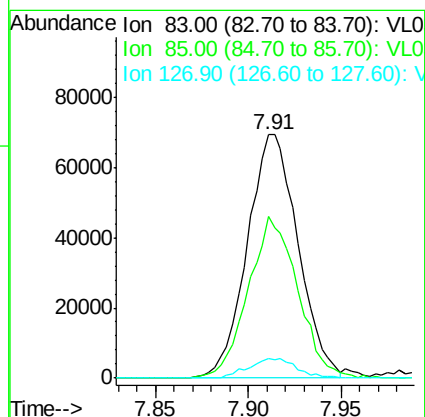
RT: 7.91 min Scan# 1547

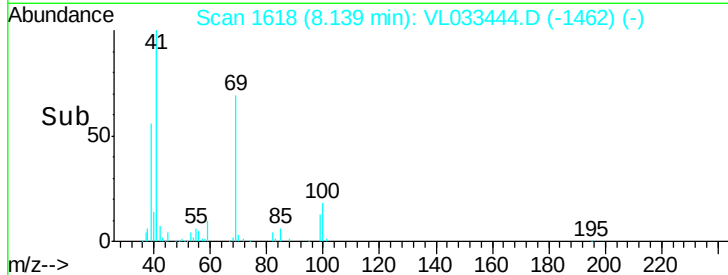
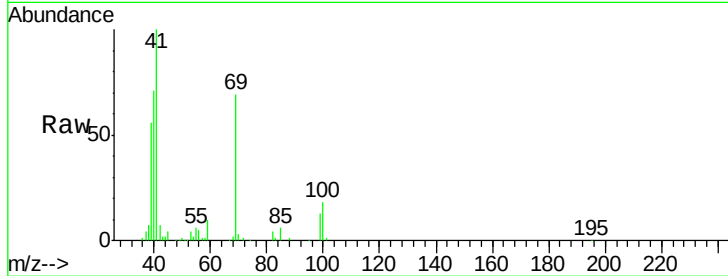
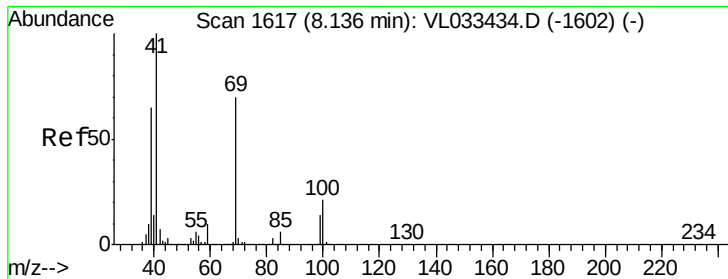
Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion:	83	Resp:	132084
Ion	Ratio	Lower	Upper
83	100		
85	66.6	50.7	76.1
127	7.8	6.6	9.8





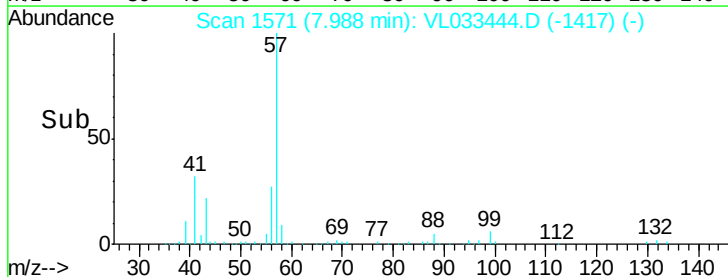
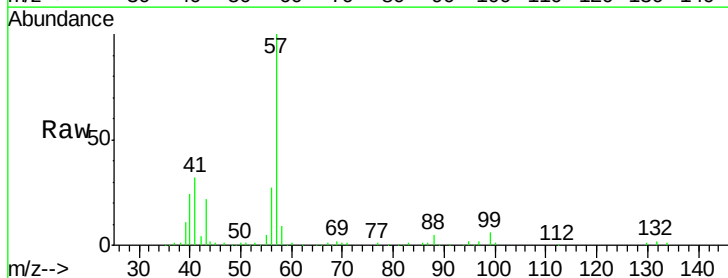
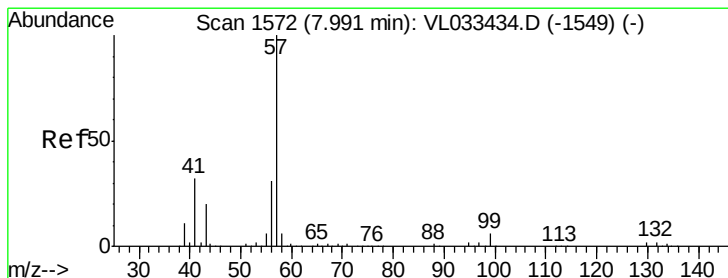
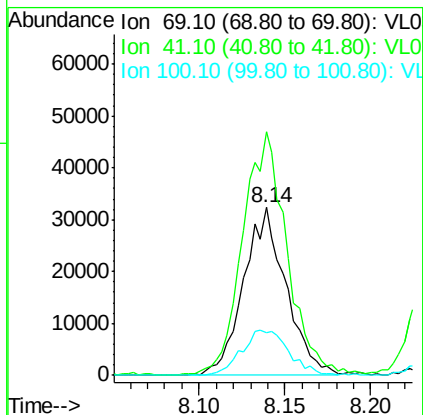
#43
Methyl Methacrylate
Concen: 0.889 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tot Ion: 69 Resp: 55425
Ion Ratio Lower Upper
69 100
41 151.9 116.6 174.8
100 30.2 24.4 36.6

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

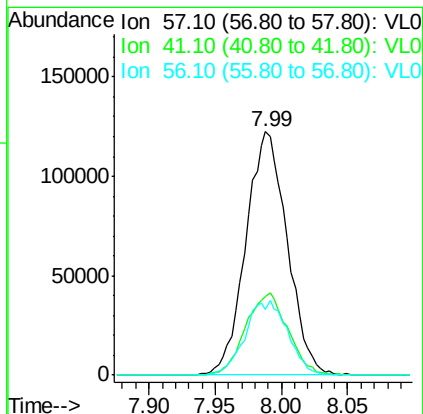
Manual Integrations
APPROVED

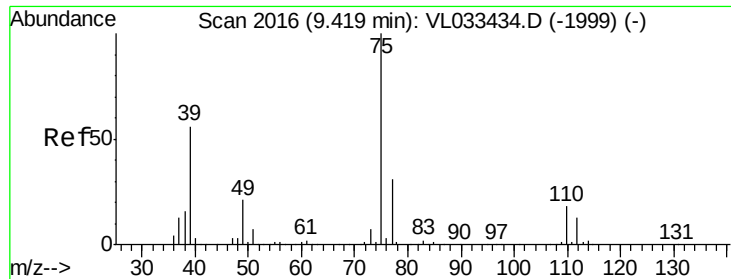
MMDadoda
4/1/2019 1:56:38 AM



#44
2,2,4-Trimethylpentane
Concen: 0.989 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion: 57 Resp: 265429
Ion Ratio Lower Upper
57 100
41 34.6 26.0 39.0
56 31.5 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 0.830 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion: 75 Resp: 63559

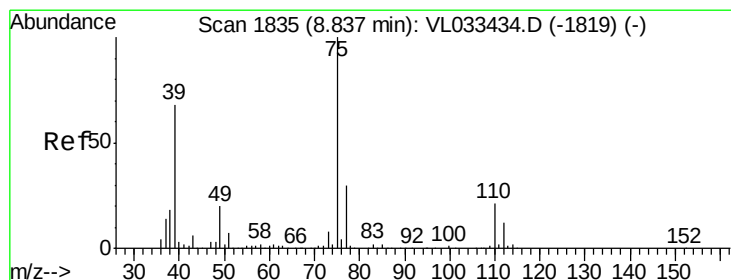
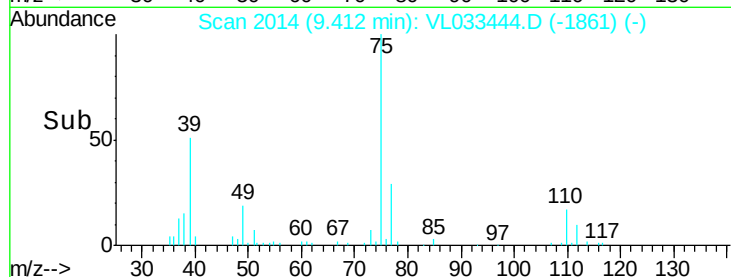
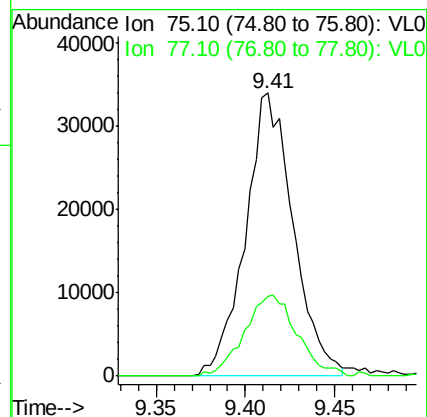
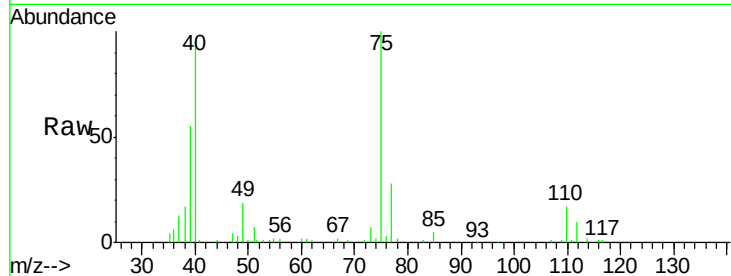
Ion Ratio Lower Upper

75 100

77 28.2 24.5 36.7

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4/1/2019 1:56:38 AM



#46

cis-1,3-Dichloropropene

Concen: 0.839 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

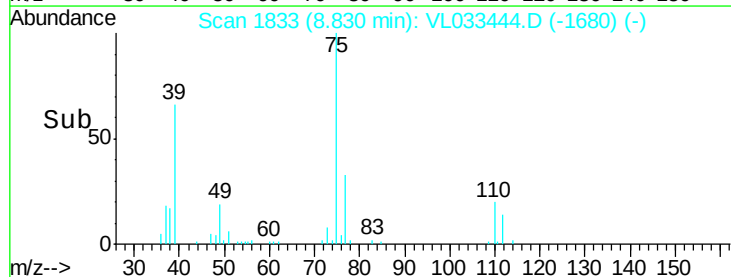
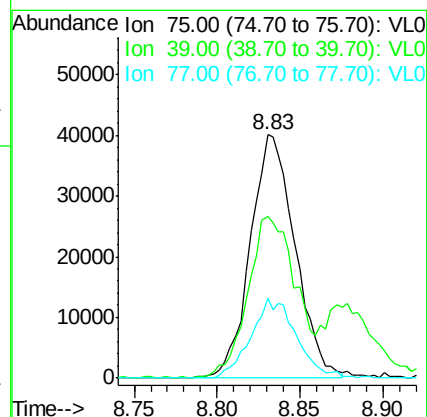
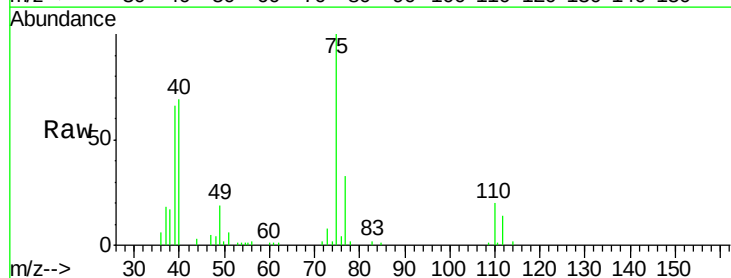
Tgt Ion: 75 Resp: 75058

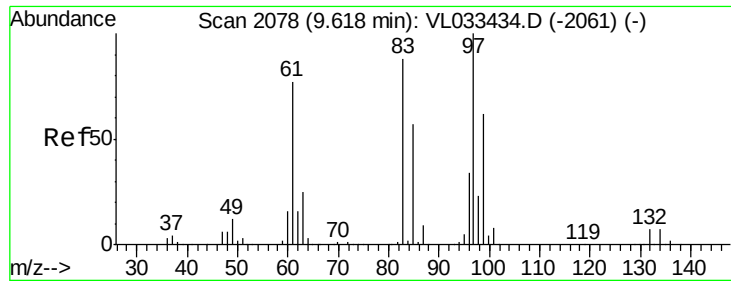
Ion Ratio Lower Upper

75 100

39 66.5 54.1 81.1

77 32.7 23.9 35.9





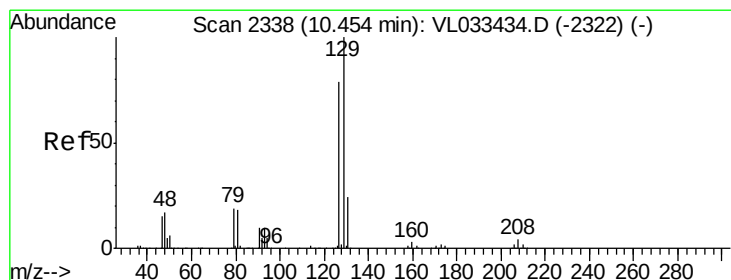
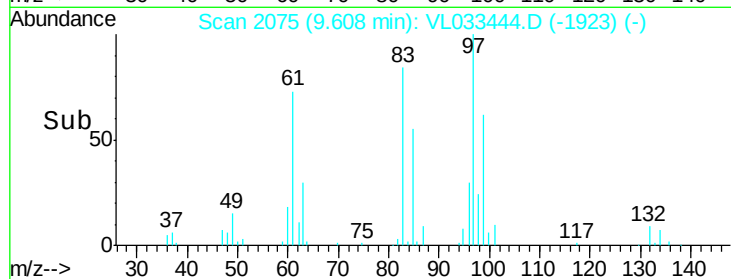
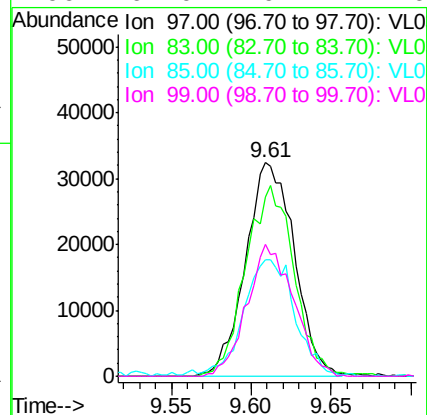
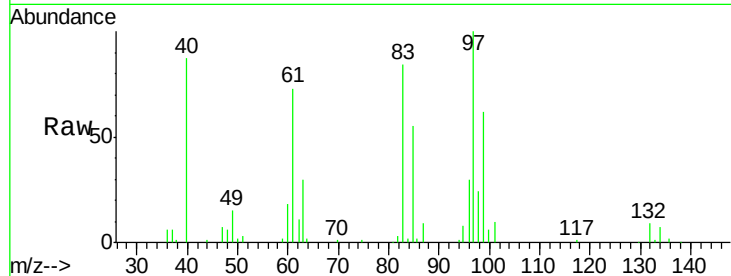
#47
 1,1,2-Trichloroethane
 Concen: 0.989 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	83.9	70.5	105.7	
85	55.8	45.6	68.4	
99	62.0	49.4	74.0	

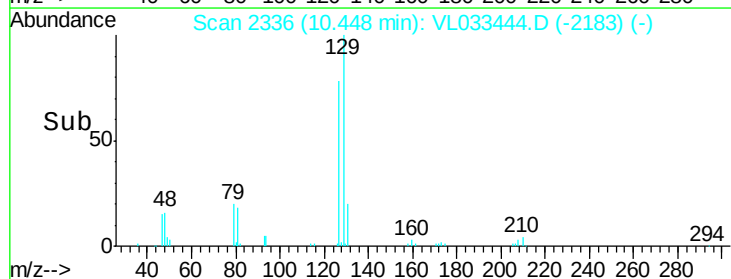
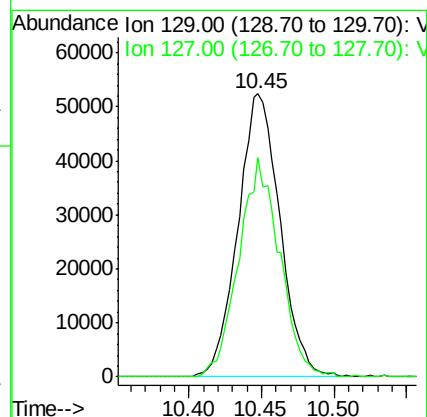
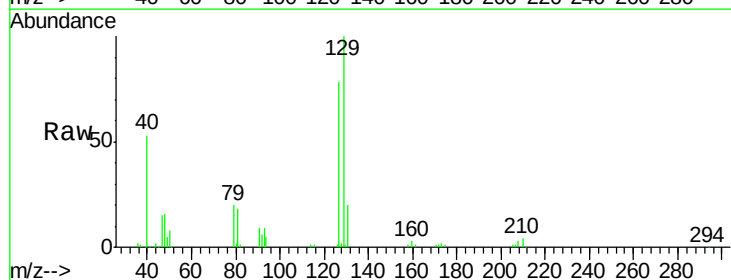
Manual Integrations
 APPROVED

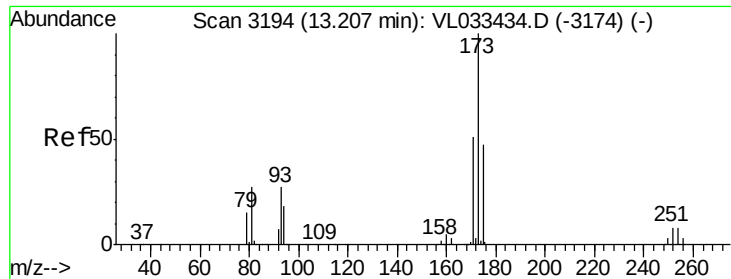
MMDadoda
 4/1/2019 1:56:38 AM



#48
 Dibromochloromethane
 Concen: 0.916 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.01 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	75.2	39.1	117.2	





#49

Bromoform

Concen: 0.816 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

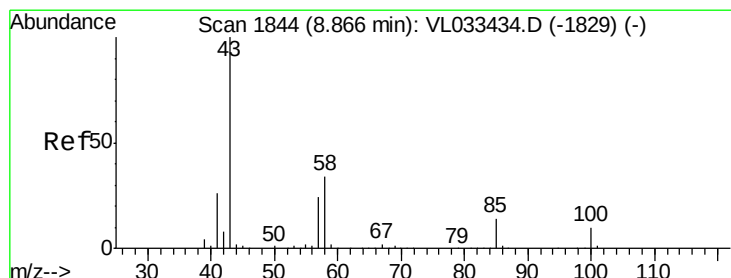
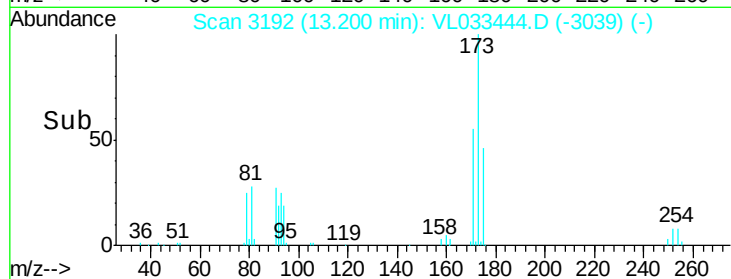
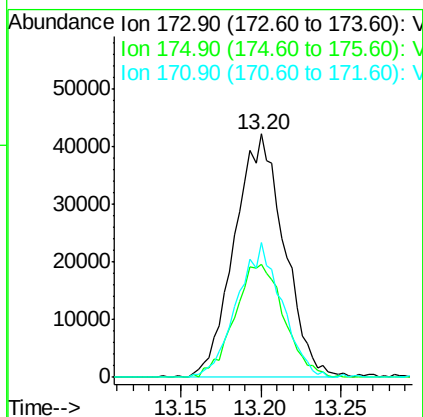
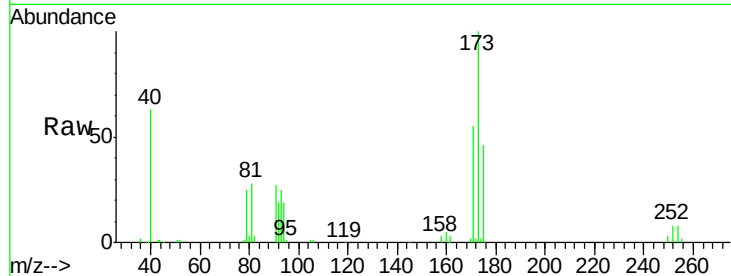
ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion:	173	Resp:	89864
Ion	Ratio	Lower	Upper
173	100		
175	46.1	39.3	58.9
171	50.0	41.2	61.8

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4/1/2019 1:56:38 AM



#50

4-Methyl-2-Pentanone

Concen: 0.951 ppbv

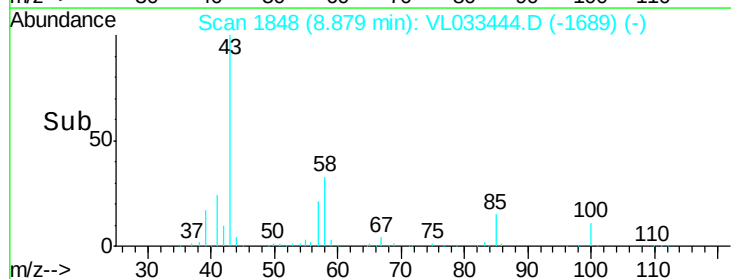
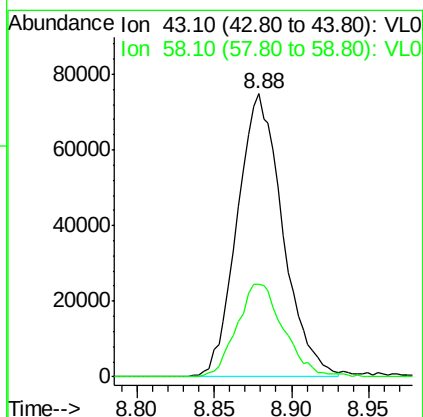
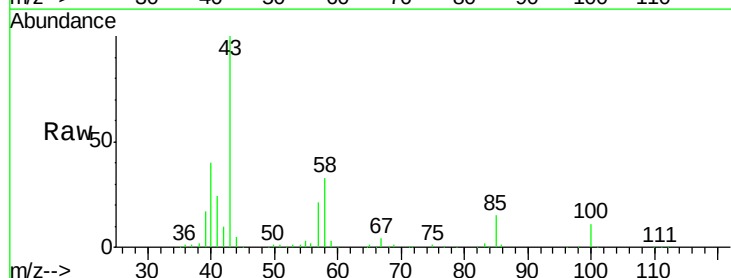
RT: 8.88 min Scan# 1848

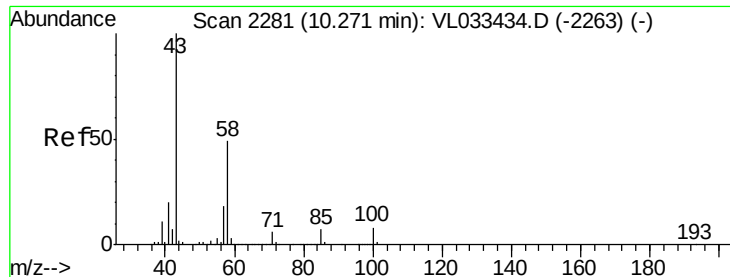
Delta R.T. 0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion:	43	Resp:	153076
Ion	Ratio	Lower	Upper
43	100		
58	33.9	28.0	42.0





#51

2-Hexanone

Concen: 0.882 ppbv m

RT: 10.29 min Scan# 2286

Delta R.T. 0.02 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion: 43 Resp: 105884

Ion Ratio Lower Upper

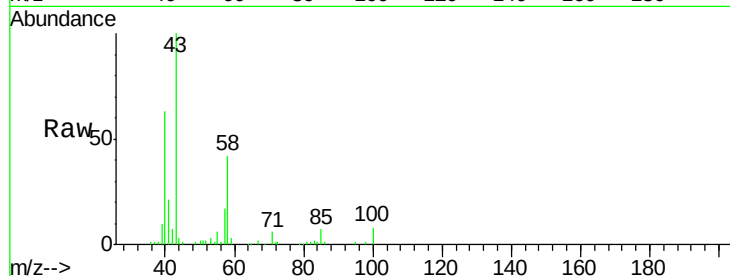
43 100

58 43.6 38.2 57.2

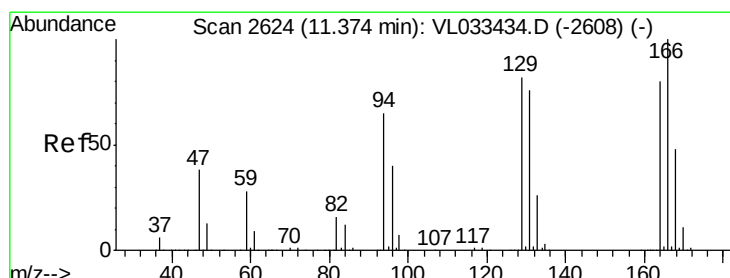
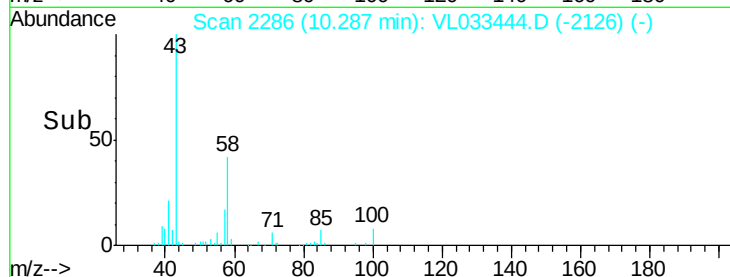
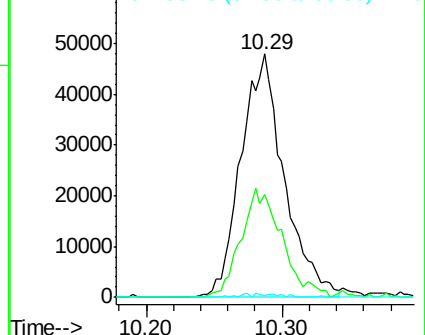
98 0.9 0.2 0.2#

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.992 ppbv m

RT: 11.37 min Scan# 2623

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion: 164 Resp: 57461

Ion Ratio Lower Upper

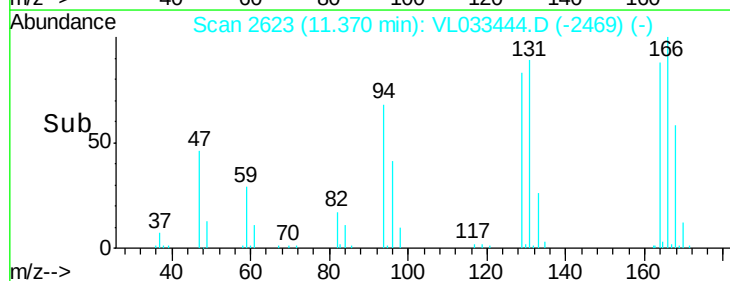
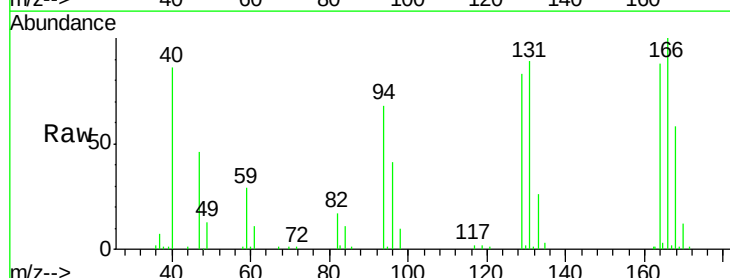
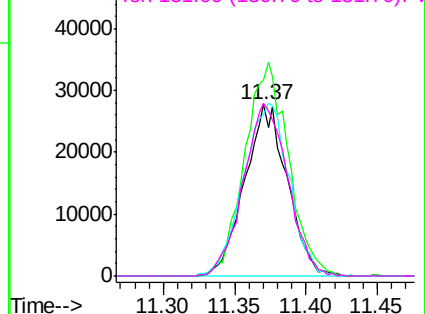
164 100

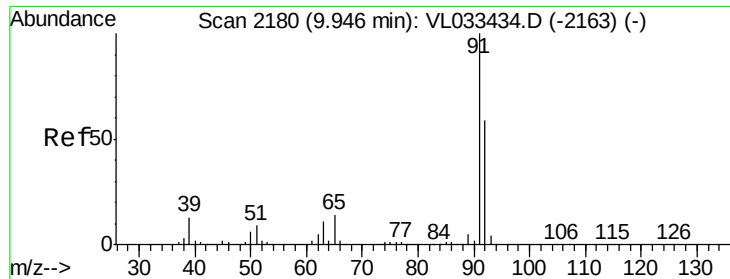
166 114.2 99.5 149.3

129 94.5 81.4 122.2

131 101.3 75.6 113.4

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.889 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion: 91 Resp: 158686

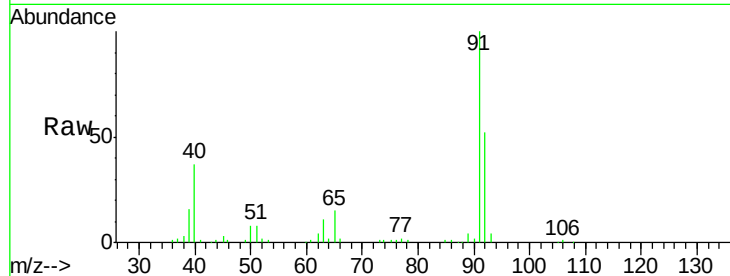
Ion Ratio Lower Upper

91 100

92 59.7 47.4 71.0

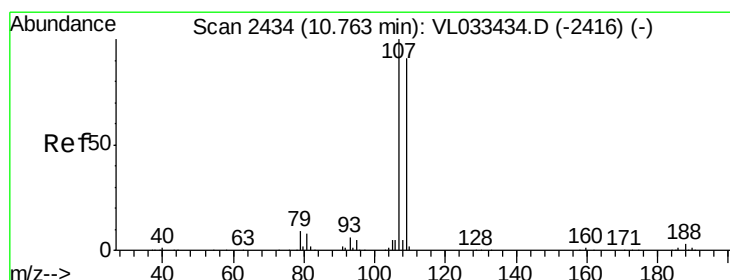
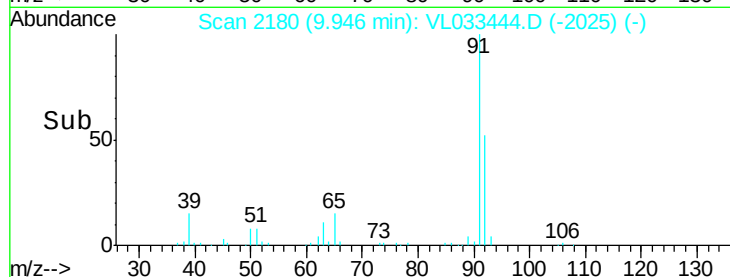
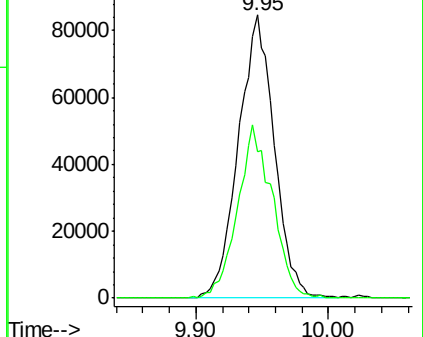
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.933 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.01 min

Lab File: VL033444.D

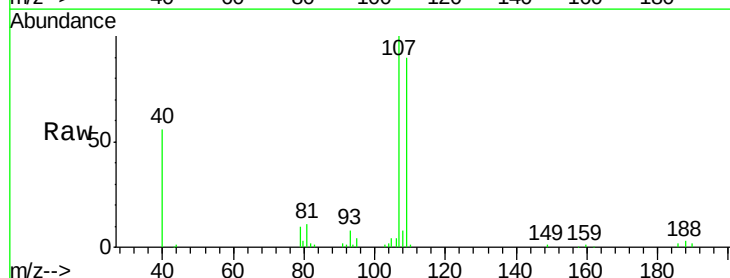
Acq: 25 Mar 2019 20:12

Tgt Ion: 107 Resp: 99685

Ion Ratio Lower Upper

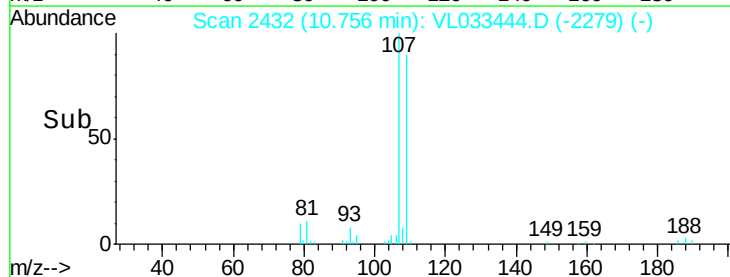
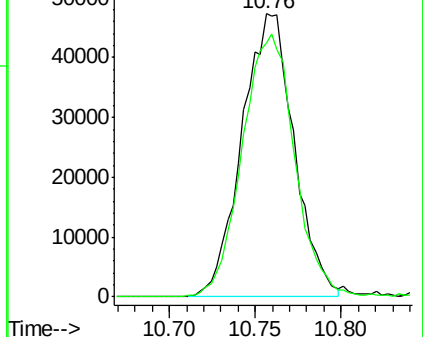
107 100

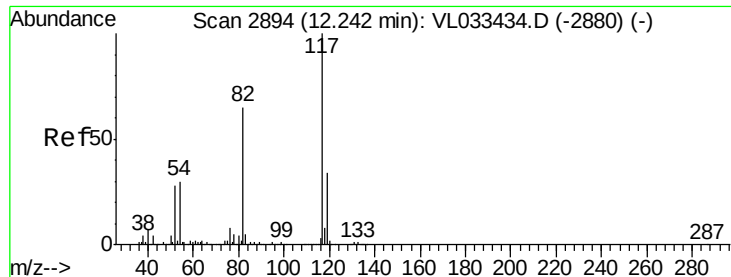
109 89.2 72.7 109.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





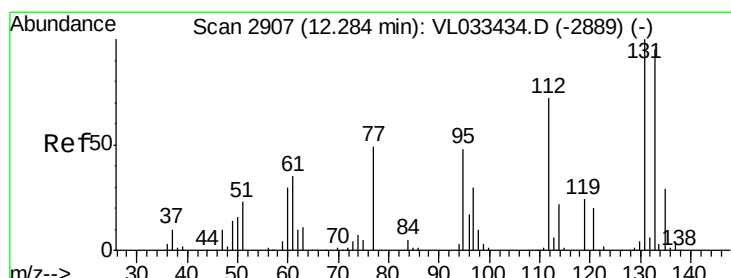
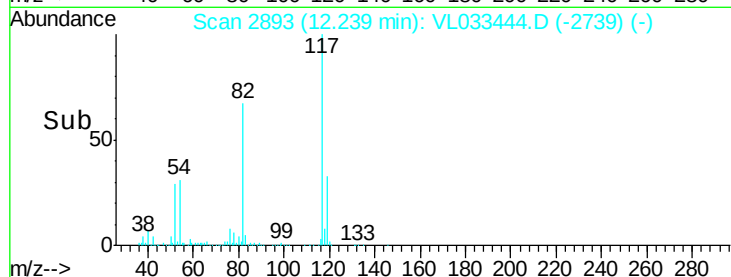
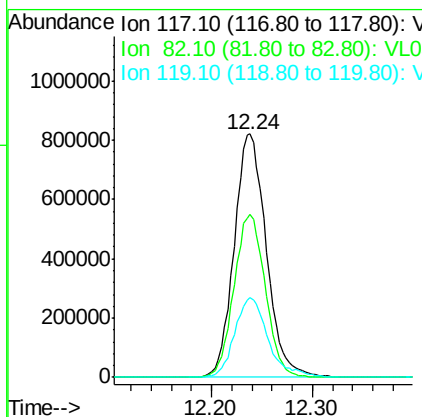
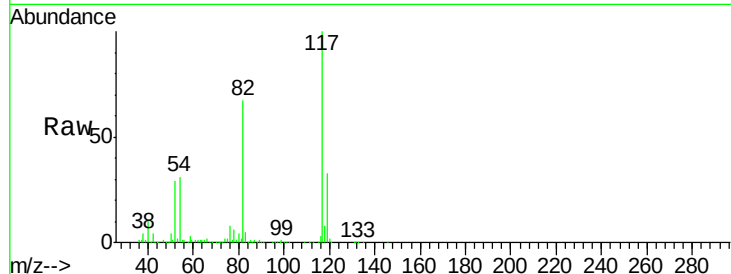
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

Tot Ion:117 Resp: 1814749
Ion Ratio Lower Upper
117 100
82 65.5 51.5 77.3
119 34.2 25.5 38.3

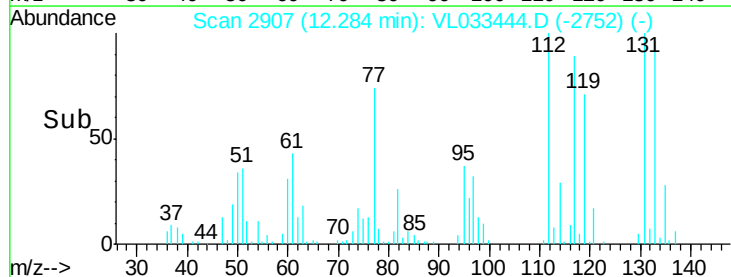
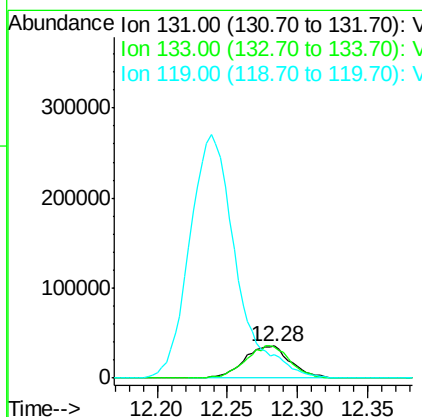
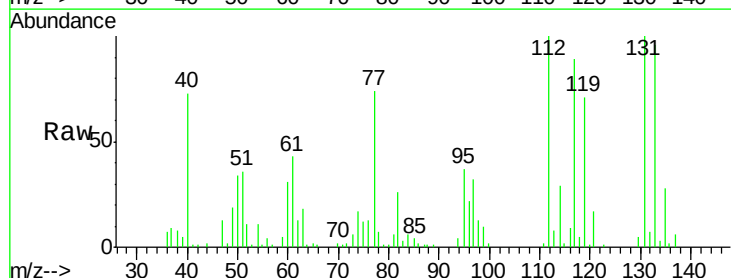
Manual Integrations
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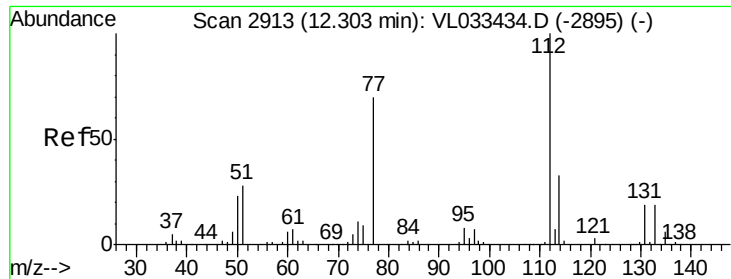
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.965 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion:131 Resp: 80291
Ion Ratio Lower Upper
131 100
133 96.8 76.2 114.4
119 774.2 45.0 67.6#





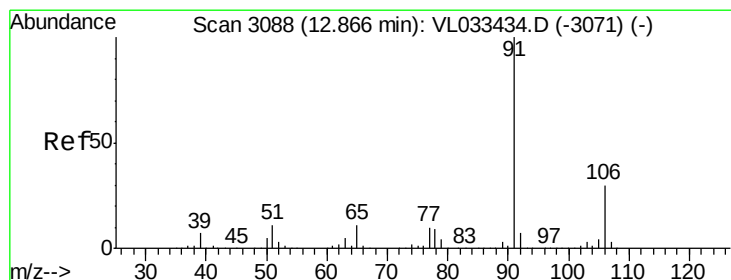
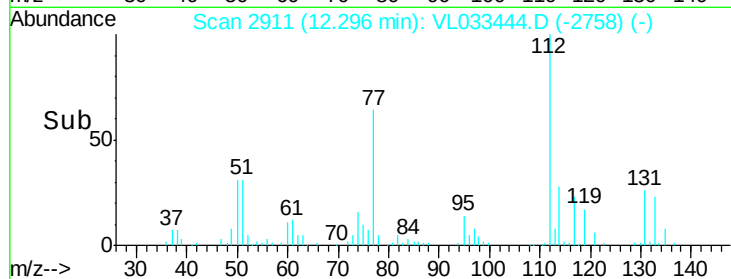
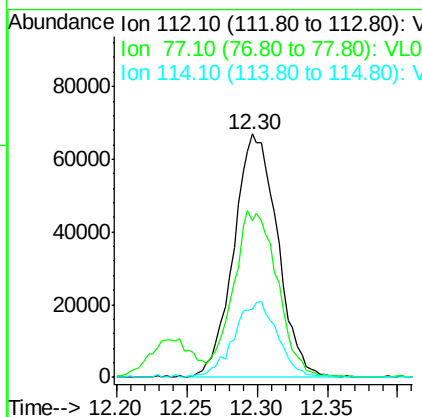
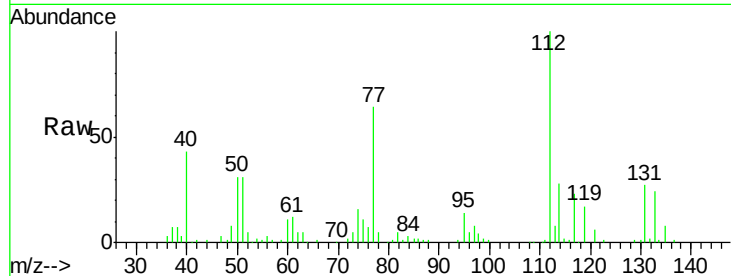
#57
Chlorobenzene
Concen: 1.031 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
112	100	145214		
77	63.6	57.3	85.9	
114	27.9	29.8	36.4	

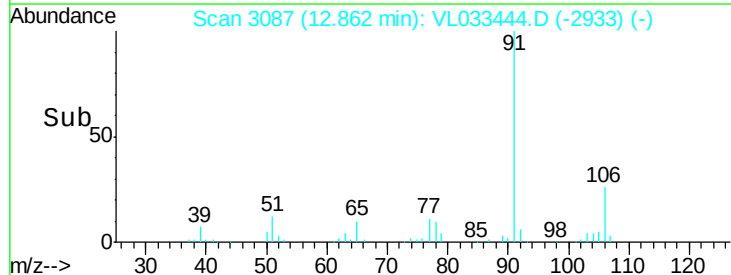
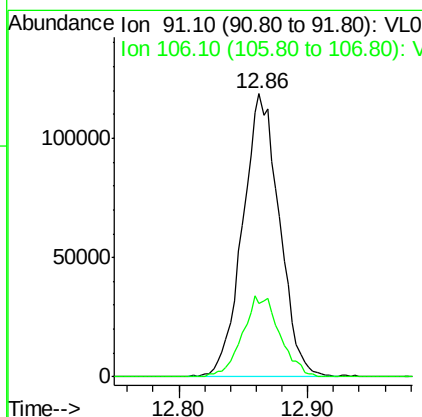
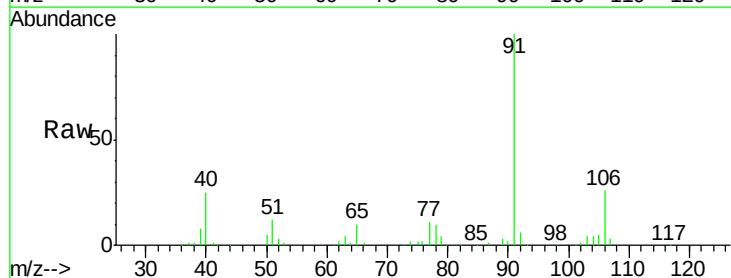
Manual Integrations
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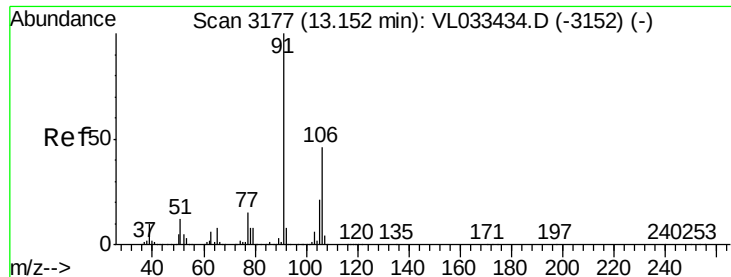
MMDadoda
4/1/2019 1:56:38 AM



#58
Ethyl Benzene
Concen: 0.973 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	235860		
106	25.8	23.8	35.6	





#59

m/p-Xylene

Concen: 1.934 ppbv m

RT: 13.15 min Scan# 3176

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion: 91 Resp: 418534

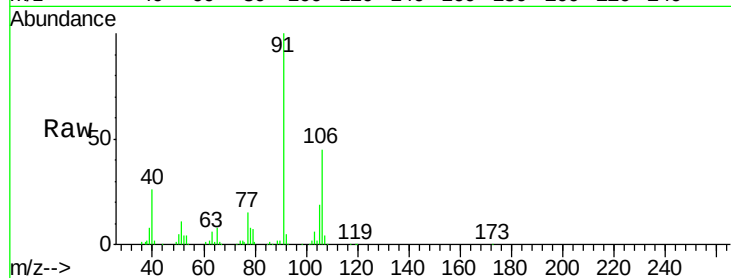
Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0

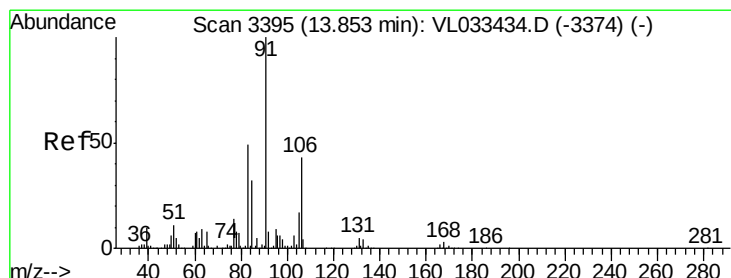
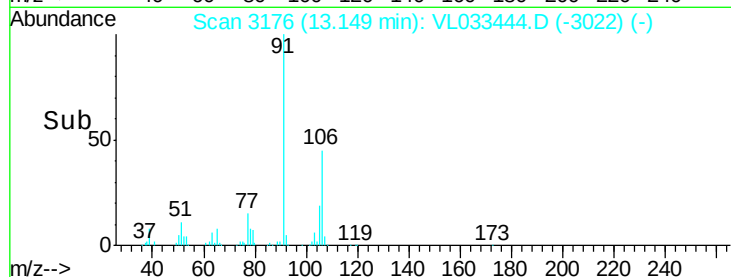
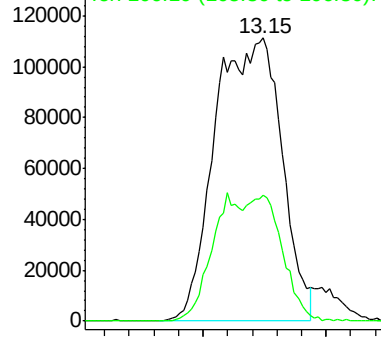
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.979 ppbv

RT: 13.85 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VL033444.D

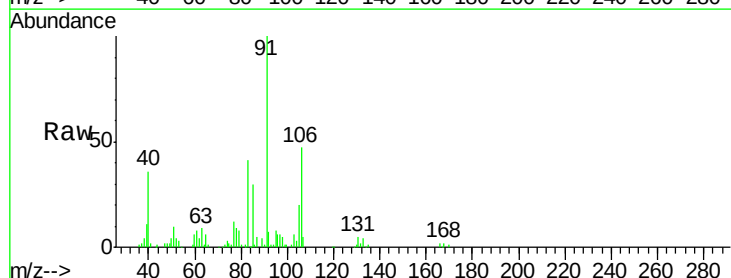
Acq: 25 Mar 2019 20:12

Tgt Ion: 91 Resp: 204943

Ion Ratio Lower Upper

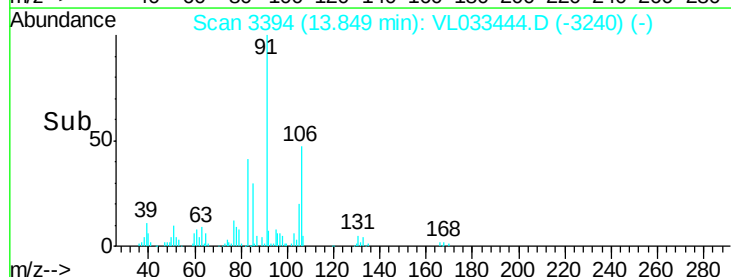
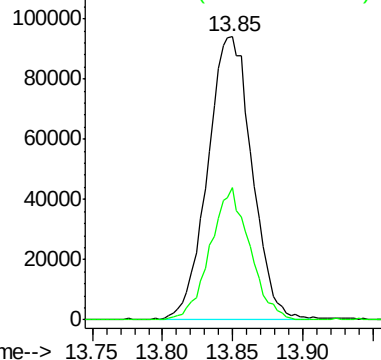
91 100

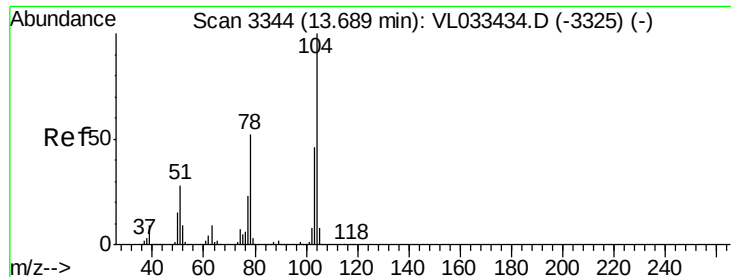
106 42.2 21.4 64.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 0.920 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

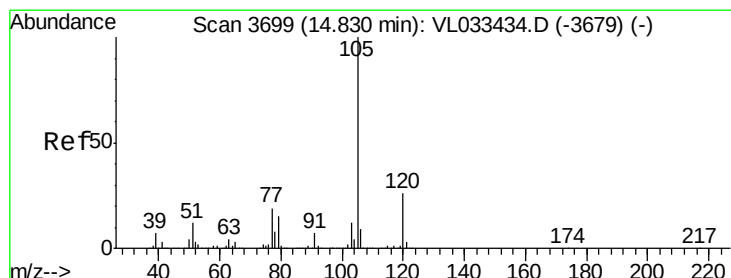
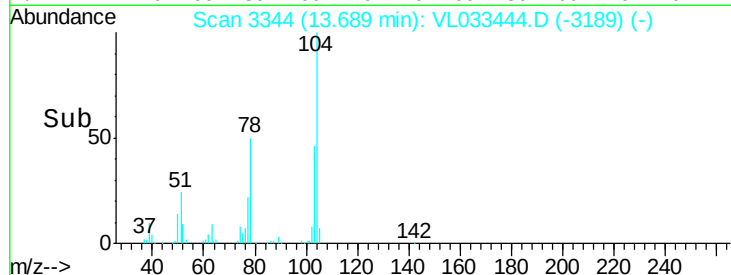
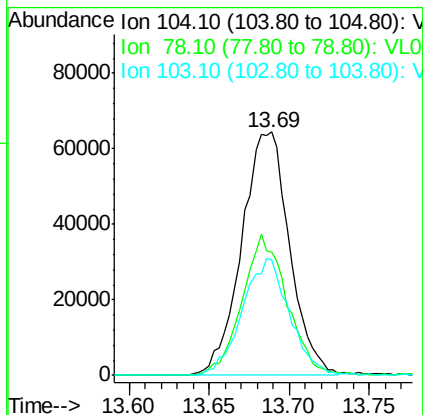
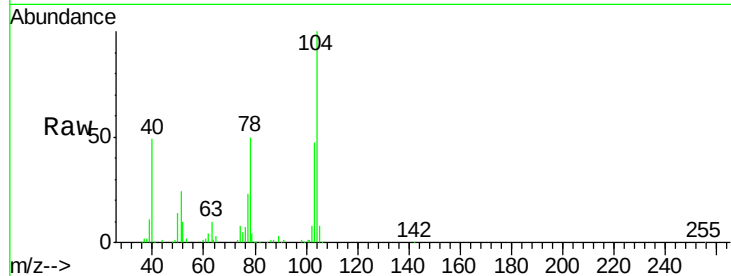
ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion:	104	Resp:	132163
Ion Ratio	Lower	Upper	
104	100		
78	54.6	43.2	64.8
103	47.4	37.8	56.8

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#62

Isopropylbenzene

Concen: 0.968 ppbv

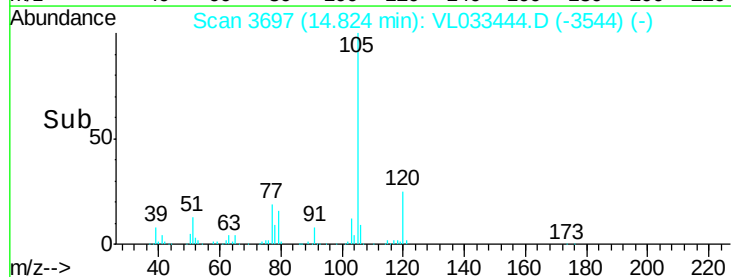
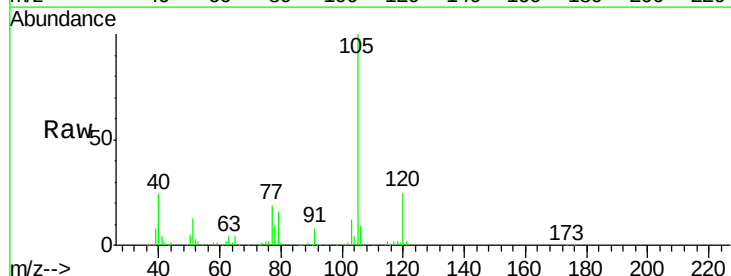
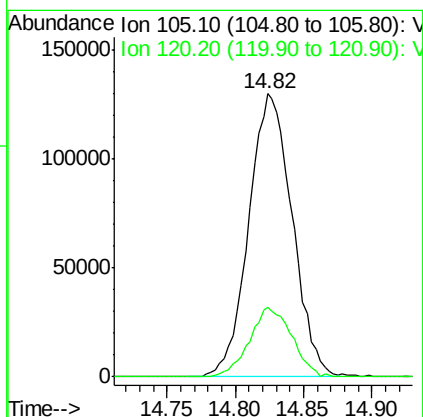
RT: 14.82 min Scan# 3697

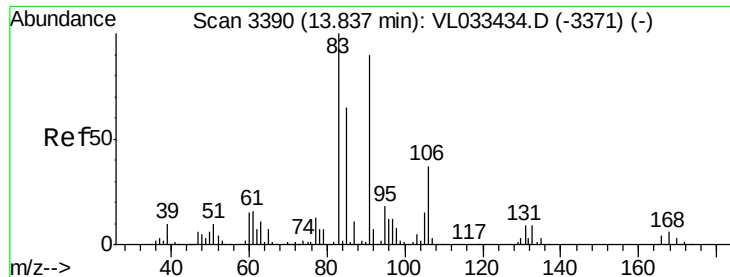
Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion:	105	Resp:	287024
Ion Ratio	Lower	Upper	
105	100		
120	24.1	20.2	30.2





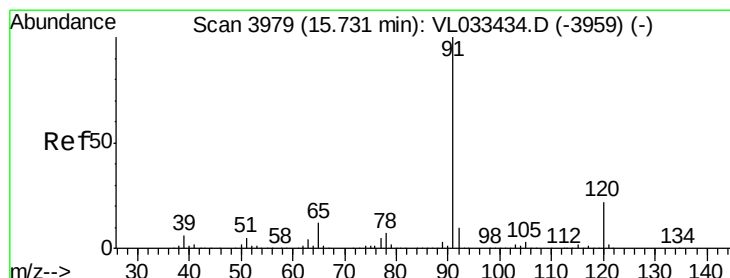
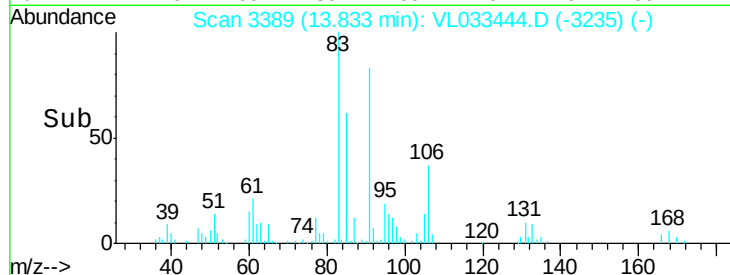
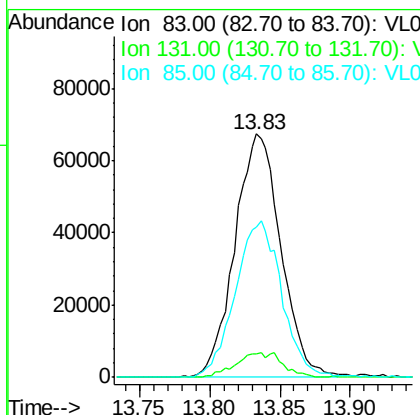
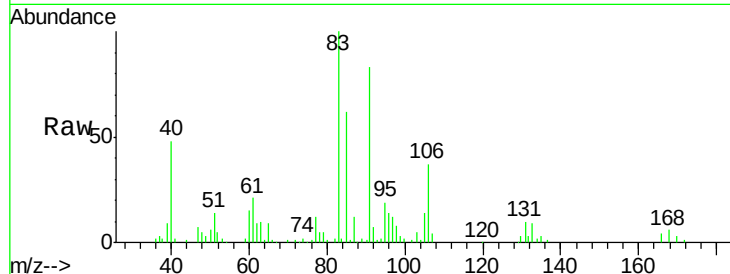
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.996 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

Tot Ion	83	Resp	153479
Ion Ratio	100	Lower	Upper
83	100		
131	10.3	4.7	14.0
85	65.6	32.7	98.1

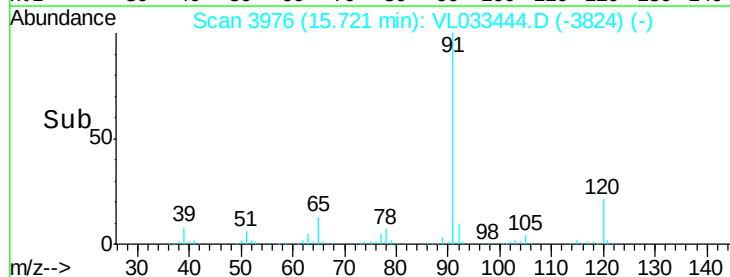
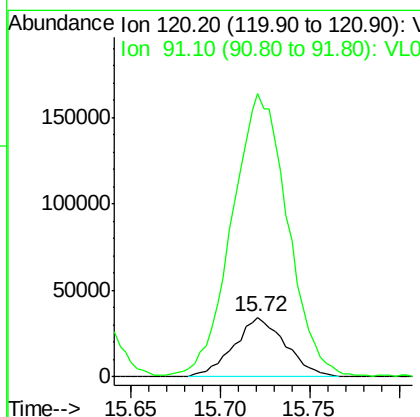
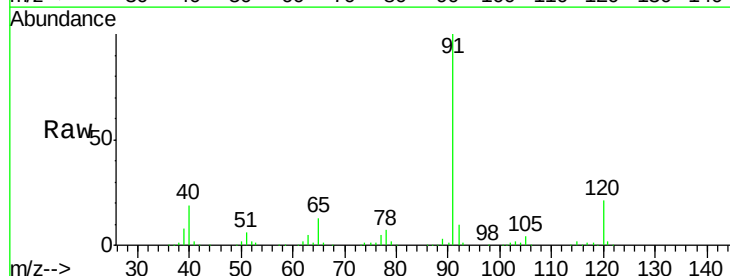
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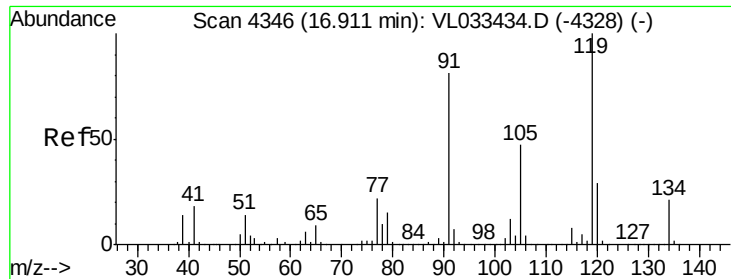
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 4/1/2019 1:56:38 AM



#64
 n-propylbenzene
 Concen: 0.918 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tgt Ion	120	Resp	69017
Ion Ratio	100	Lower	Upper
120	100		
91	516.6	387.4	581.2





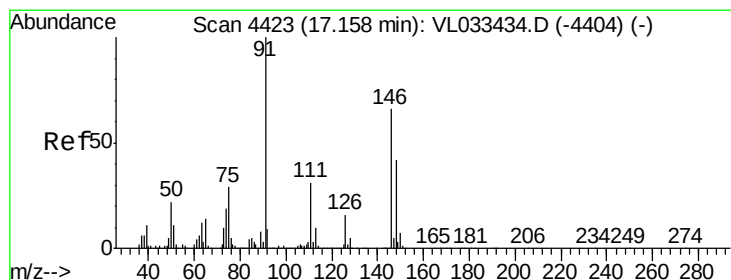
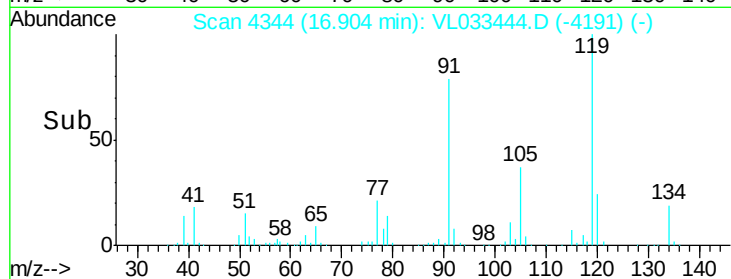
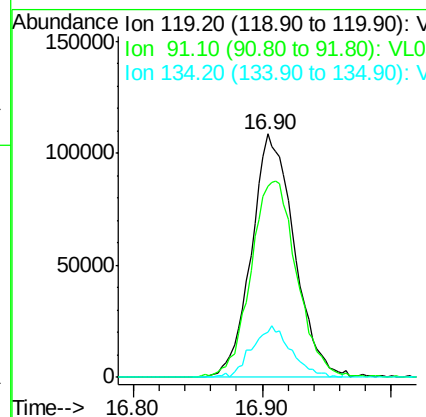
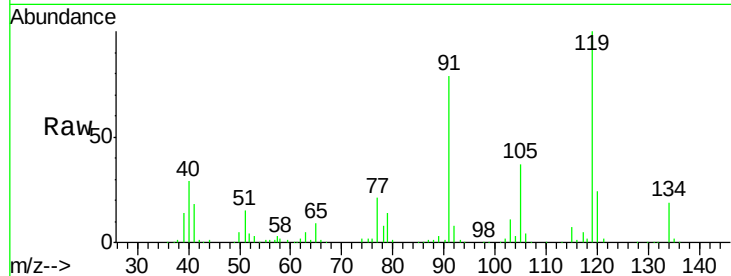
#65
 tert-Butylbenzene
 Concen: 0.959 ppbv
 RT: 16.90 min Scan# 4344
 Delta R.T. -0.01 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
119	100	250578		
91	87.1	66.4	99.6	
134	19.5	15.5	23.3	

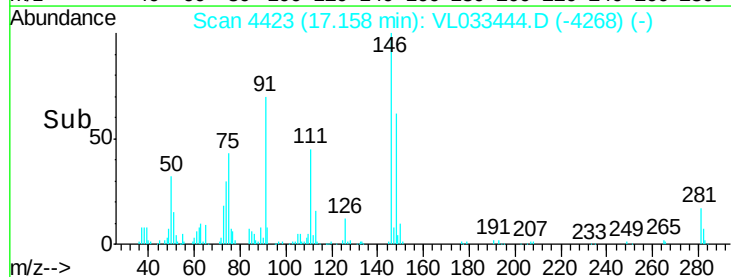
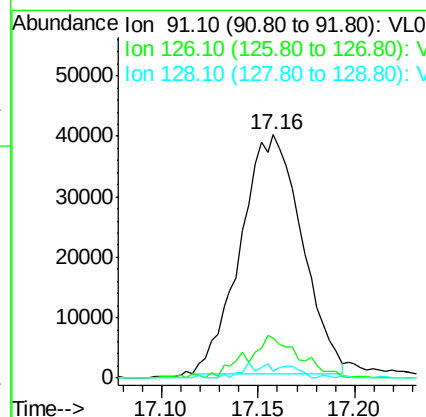
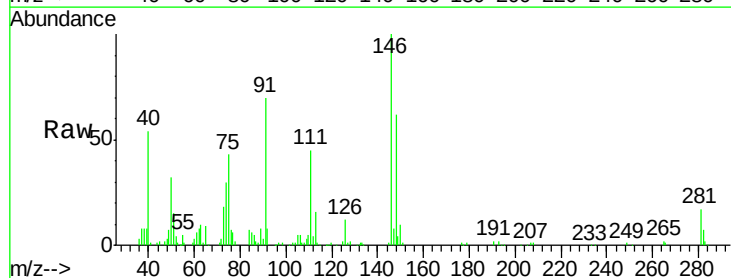
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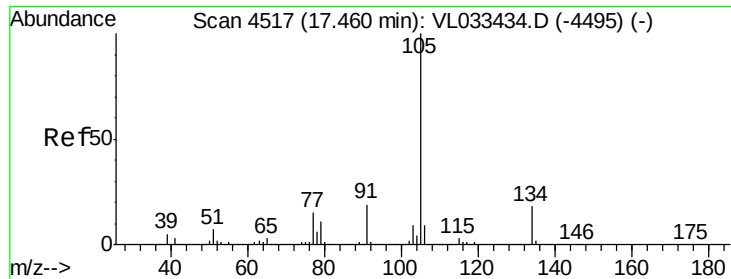
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#66
 Benzyl Chloride
 Concen: 0.716 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	87023		
126	16.2	13.0	19.6	
128	4.8	4.2	6.2	





#67

sec-Butylbenzene

Concen: 0.970 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion: 105 Resp: 360348

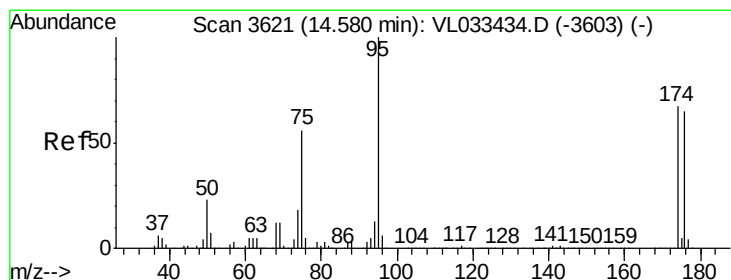
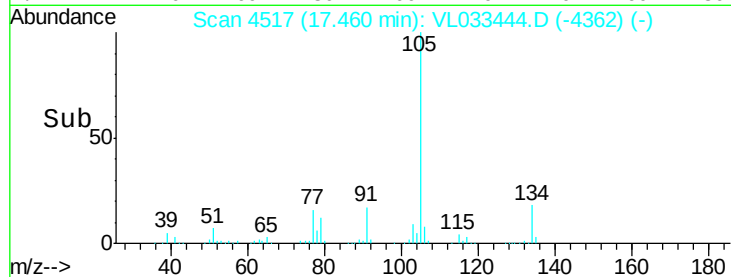
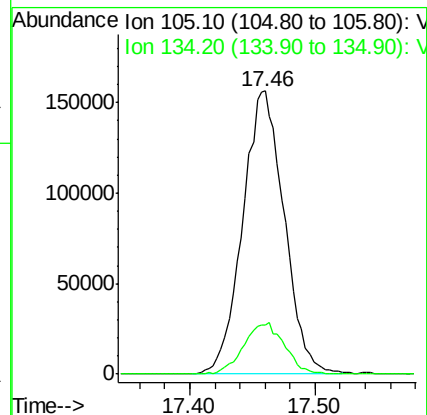
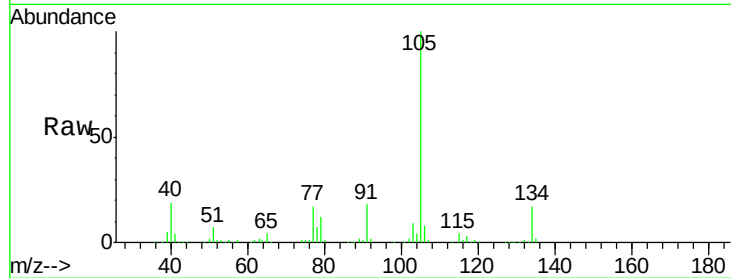
Ion Ratio Lower Upper

105 100

134 17.8 14.6 21.8

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4/1/2019 1:56:38 AM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.825 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

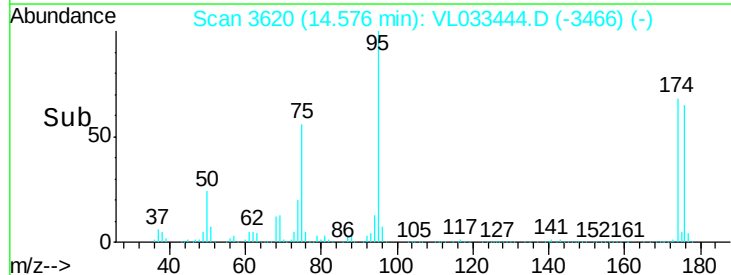
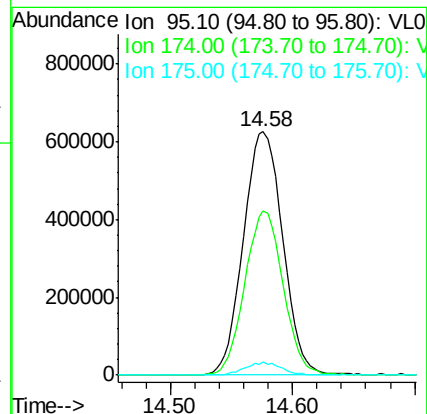
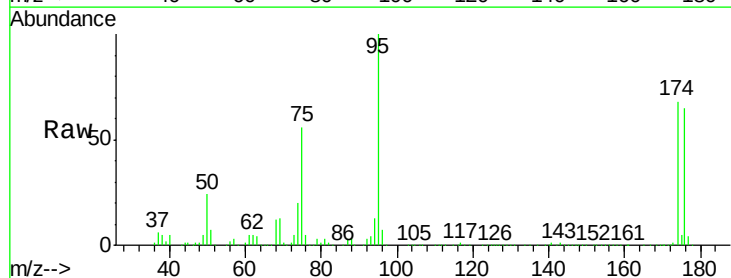
Tgt Ion: 95 Resp: 1397829

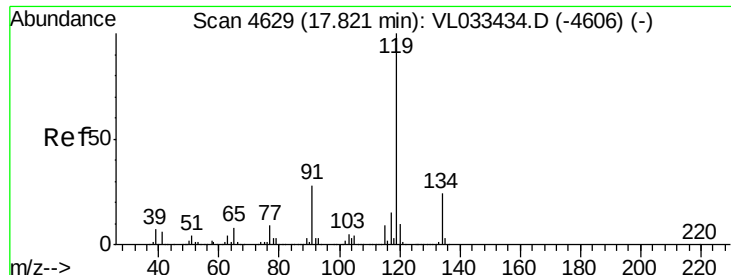
Ion Ratio Lower Upper

95 100

174 66.1 52.9 79.3

175 4.9 3.8 5.6





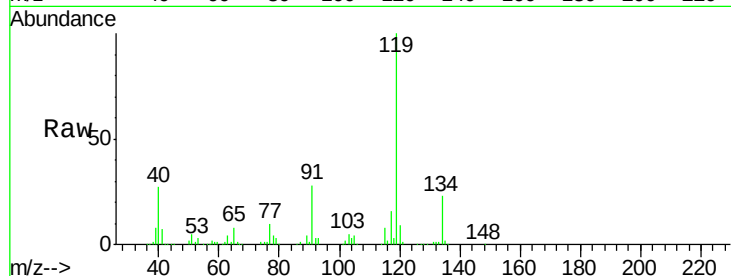
#69
 p-Isopropyltoluene
 Concen: 0.951 ppbv
 RT: 17.82 min Scan# 4628
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

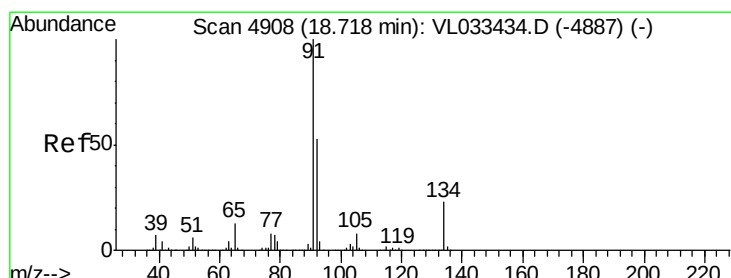
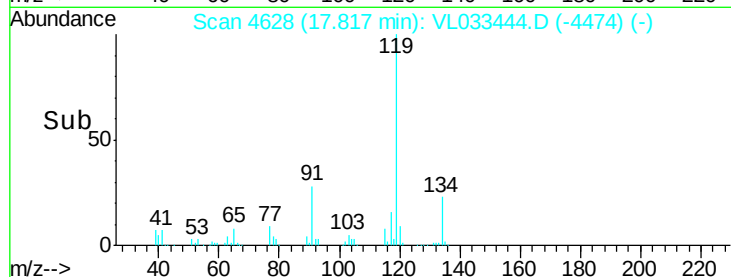
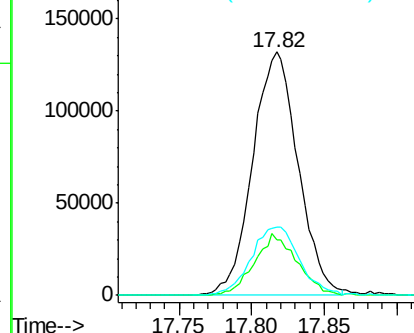
Tot Ion	Ratio	Resp	Lower	Upper
119	100	287665		
134	23.9		19.9	29.9
91	30.4		23.4	35.0

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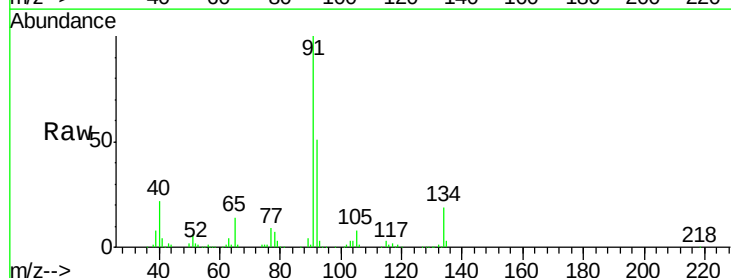


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

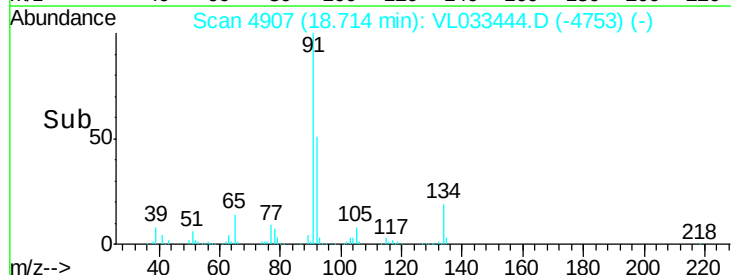
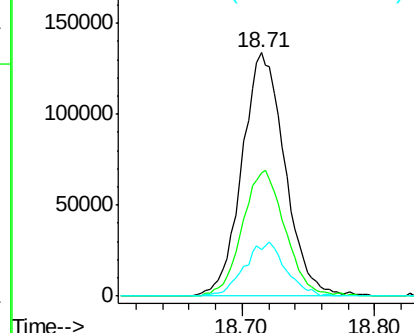


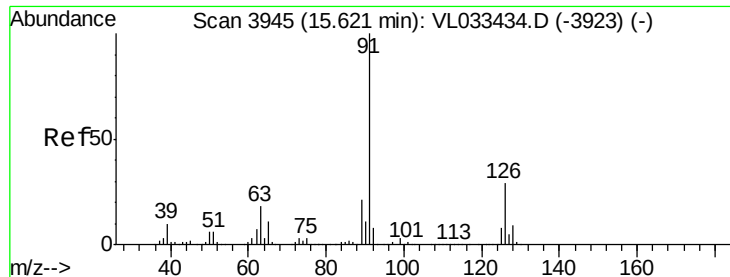
#70
 n-Butylbenzene
 Concen: 0.928 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	297355		
92	52.4		42.6	64.0
134	21.7		17.5	26.3



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 0.947 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion: 91 Resp: 213402

Ion Ratio Lower Upper

91 100

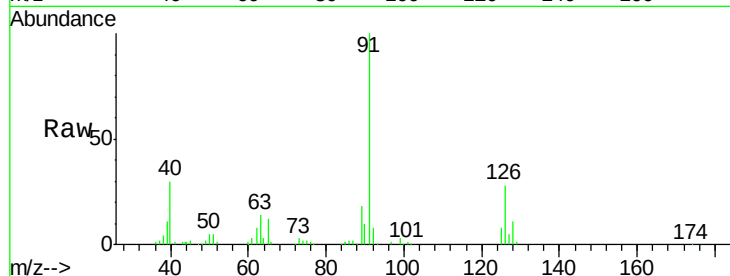
126 28.0 11.7 46.9

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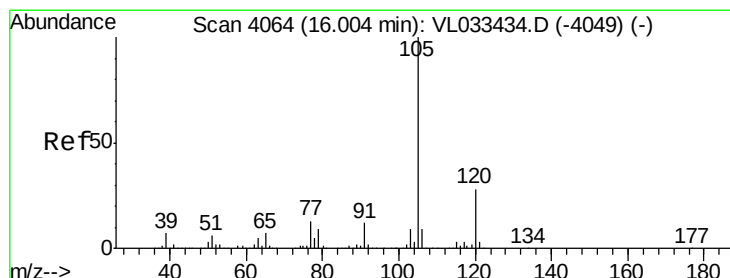
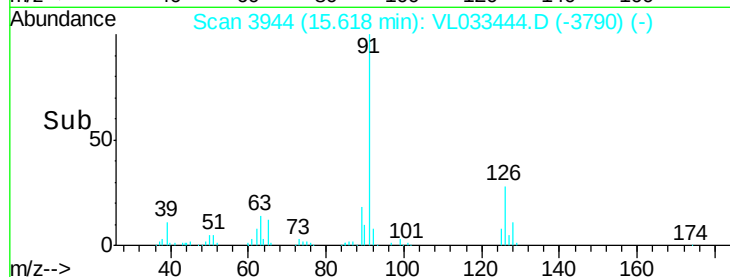
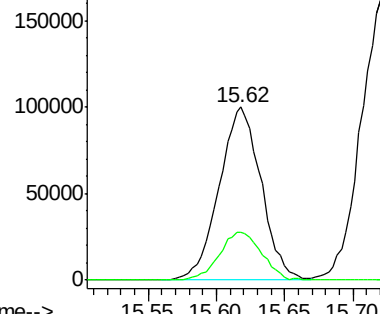
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.918 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion: 105 Resp: 215905

Ion Ratio Lower Upper

105 100

120 29.0 23.2 34.8

91 14.6 10.4 15.6

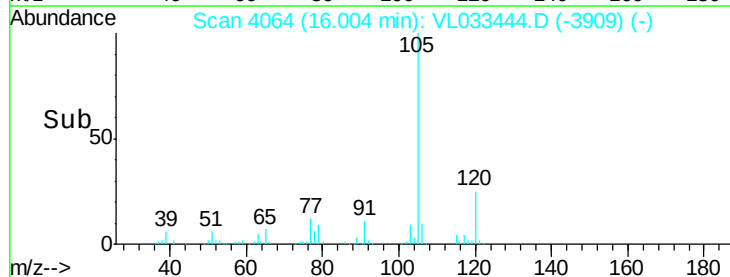
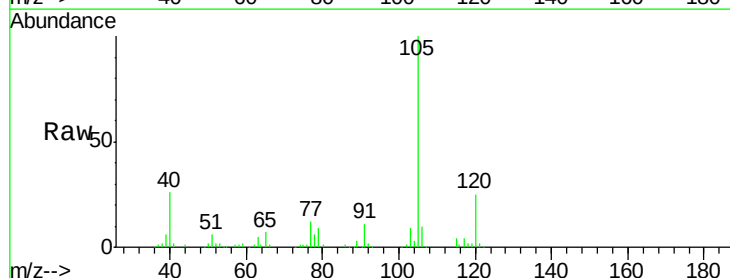
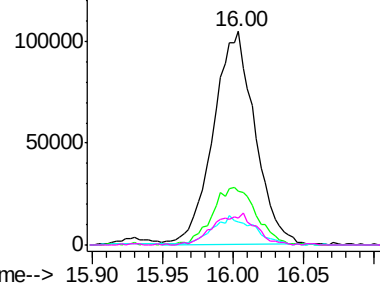
77 15.5 11.3 16.9

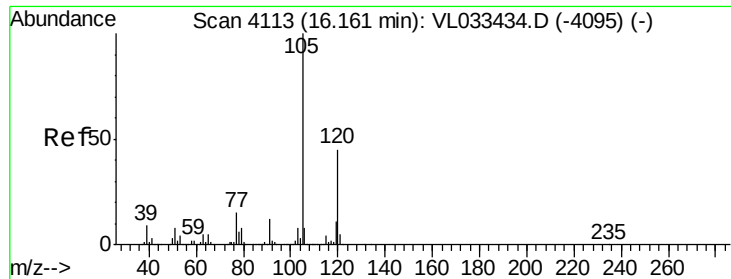
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.950 ppbv m

RT: 16.15 min Scan# 4111

Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

Tot Ion:105 Resp: 213947

Ion Ratio Lower Upper

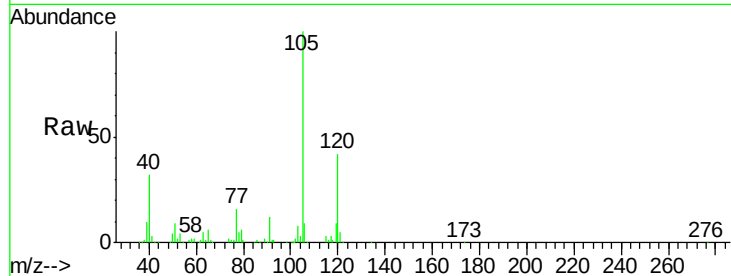
105 100

120 41.7 35.7 53.5

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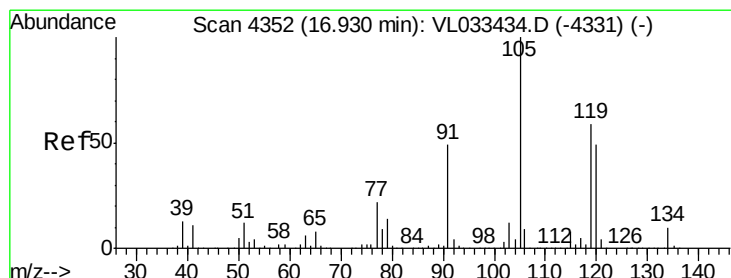
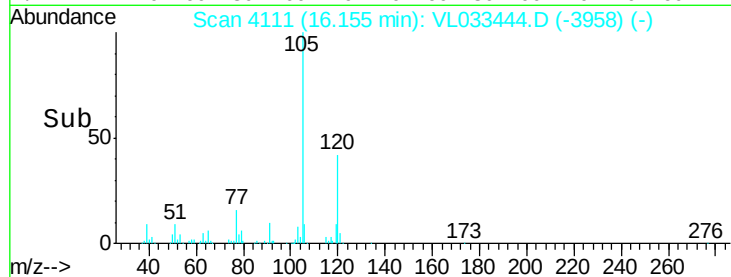
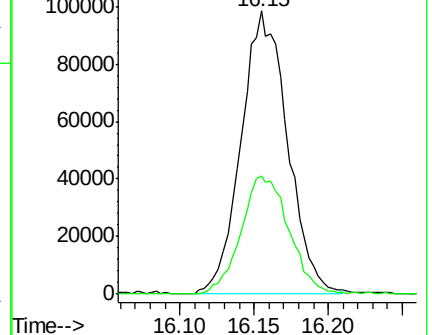
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.949 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion:105 Resp: 228976

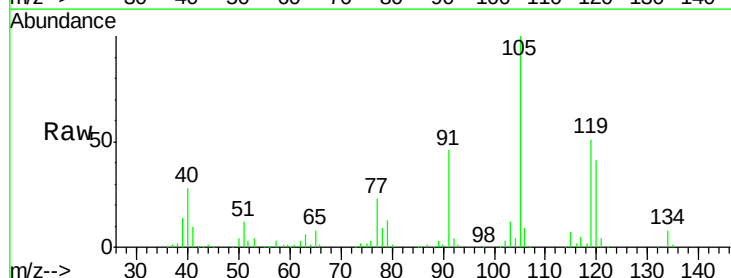
Ion Ratio Lower Upper

105 100

120 41.1 39.0 58.6

91 45.6 40.0 60.0

77 22.1 17.5 26.3

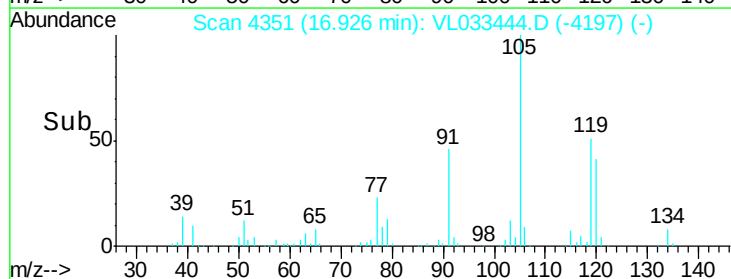
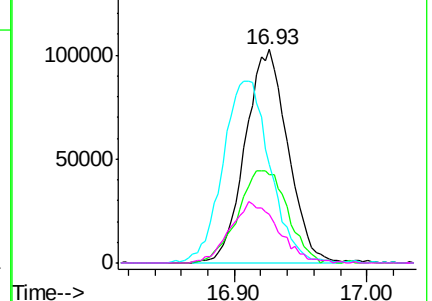


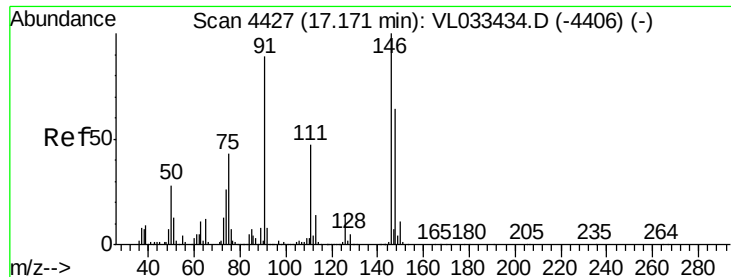
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





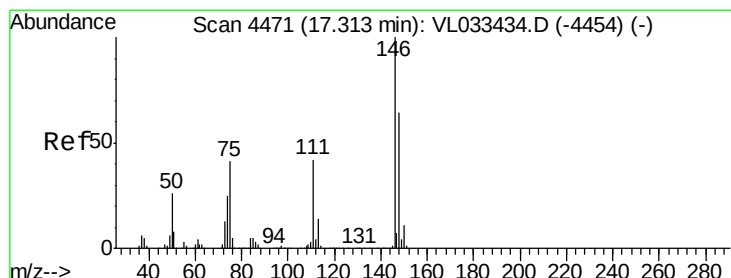
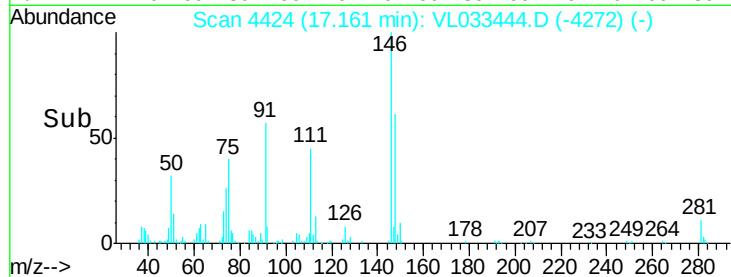
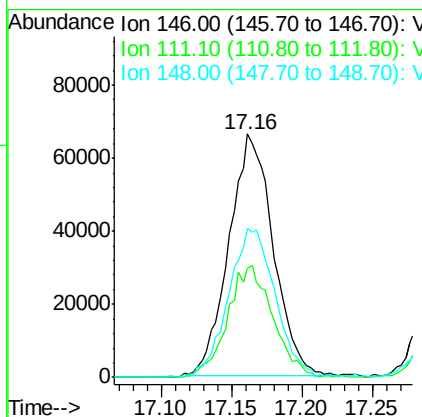
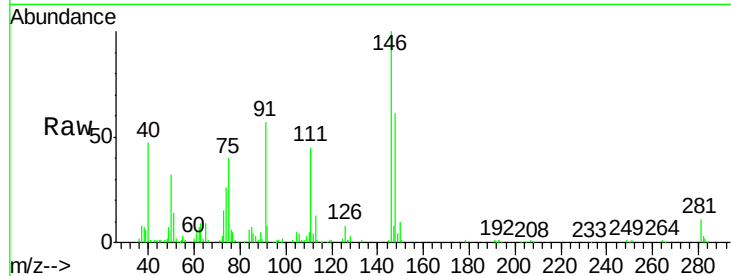
#75
 1,3-Dichlorobenzene
 Concen: 0.968 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. -0.01 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.9	22.9	68.8
148	65.3	32.0	96.2

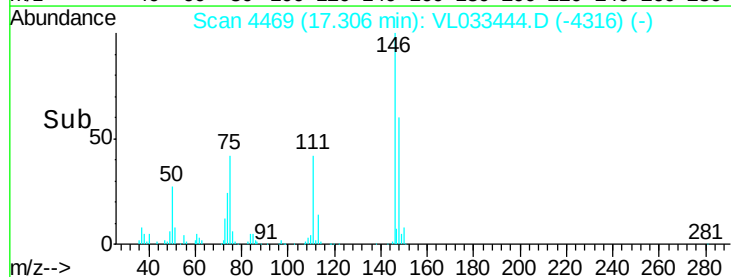
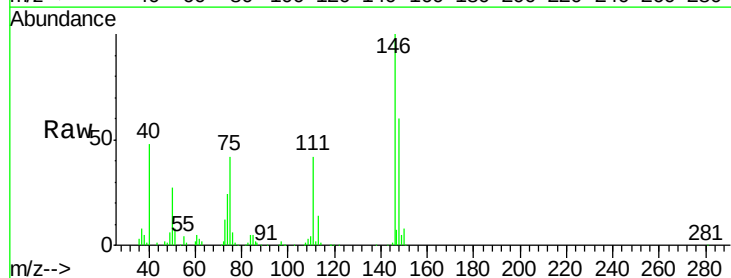
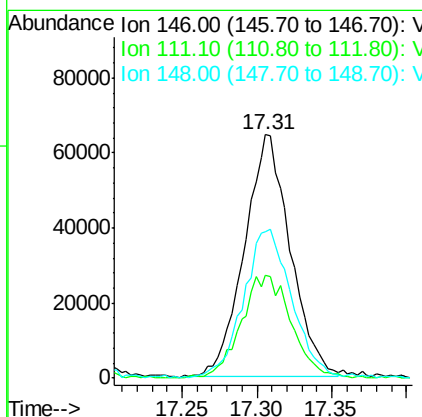
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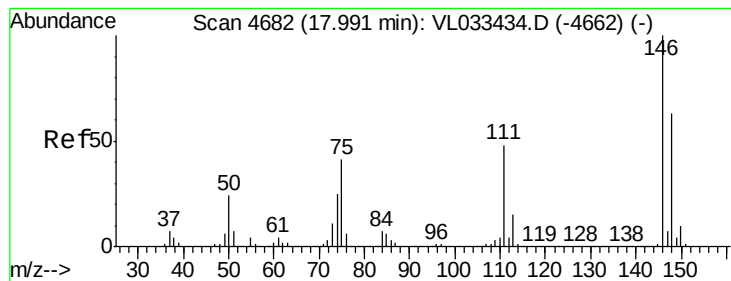
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#76
 1,4-Dichlorobenzene
 Concen: 0.946 ppbv
 RT: 17.31 min Scan# 4469
 Delta R.T. -0.01 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.8	21.7	65.1
148	64.0	32.0	96.2





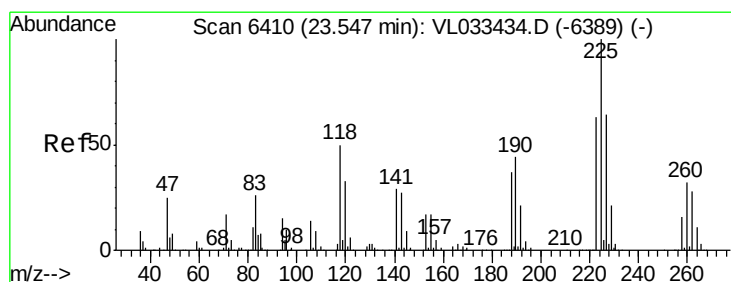
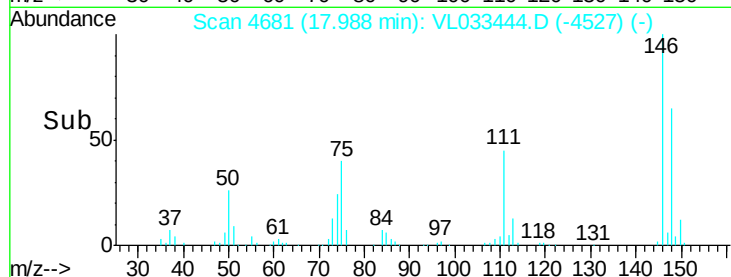
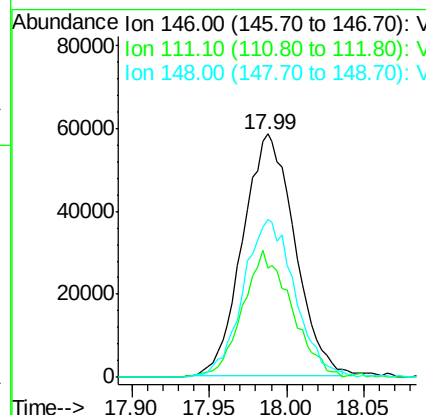
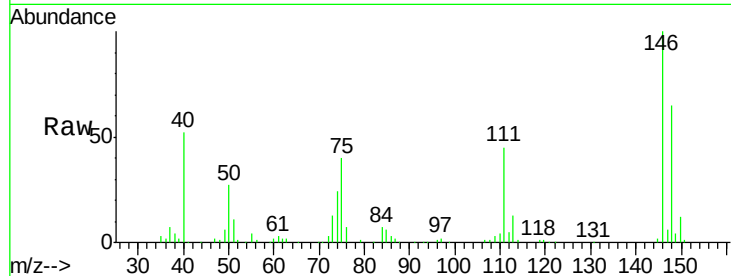
#77
 1,2-Dichlorobenzene
 Concen: 0.955 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
146	100	135131		
111	50.2	23.5	70.5	
148	66.1	32.0	96.0	

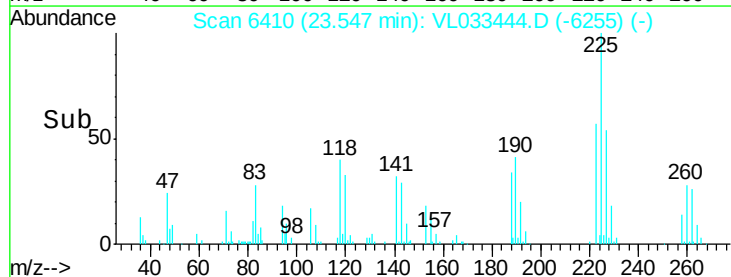
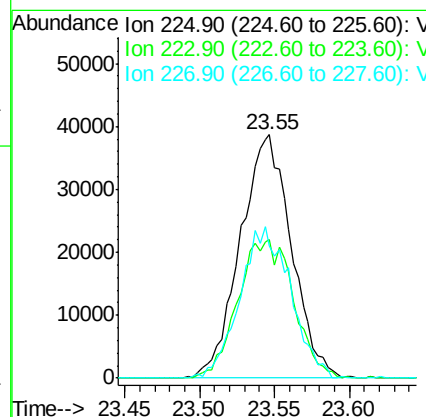
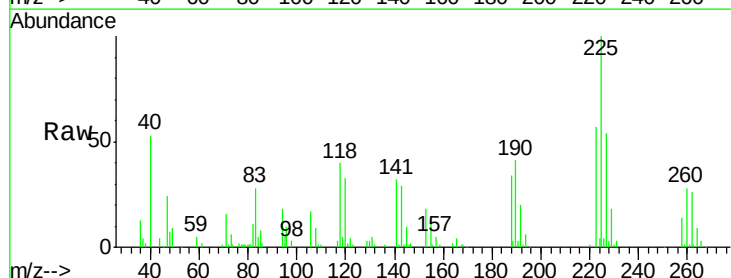
Manual Integrations
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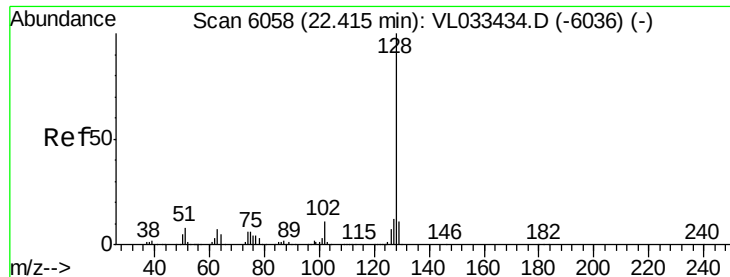
MMDadoda
 4/1/2019 1:56:38 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.979 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	91697		
223	62.3	50.0	75.0	
227	61.7	51.1	76.7	





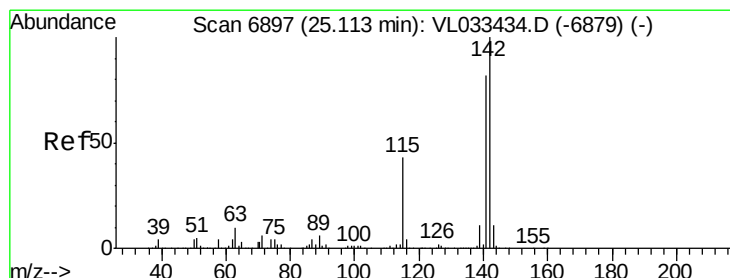
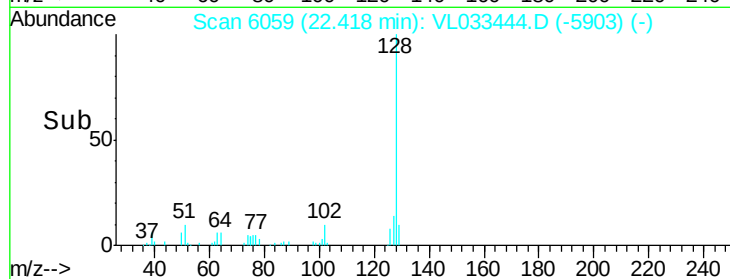
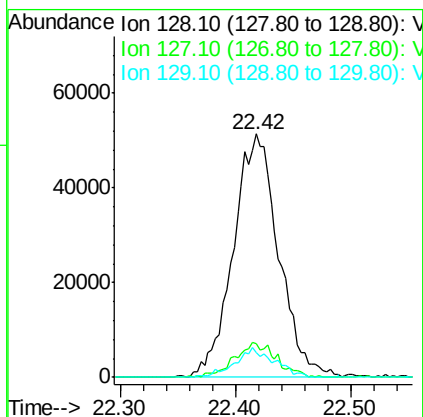
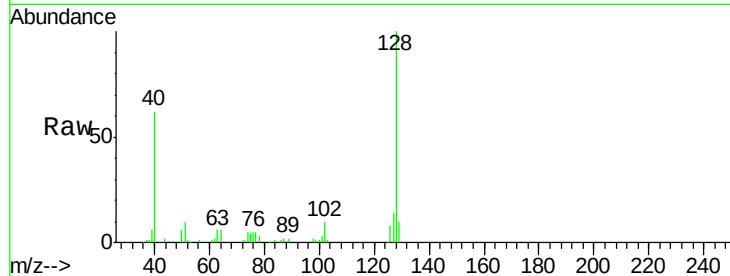
#79
Naphthalene
Concen: 0.679 ppbv m
RT: 22.42 min Scan# 6059
Delta R.T. 0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.9	9.8	14.8
129	10.2	8.6	12.8

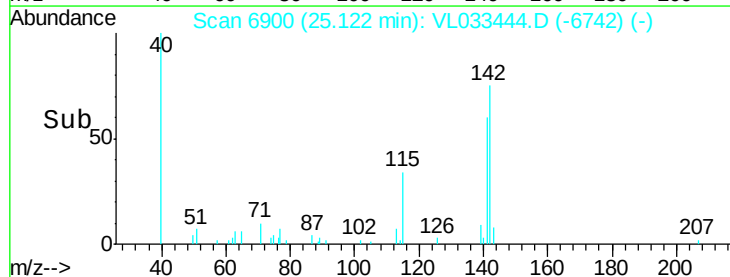
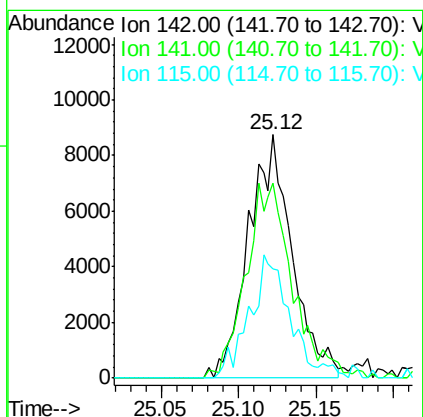
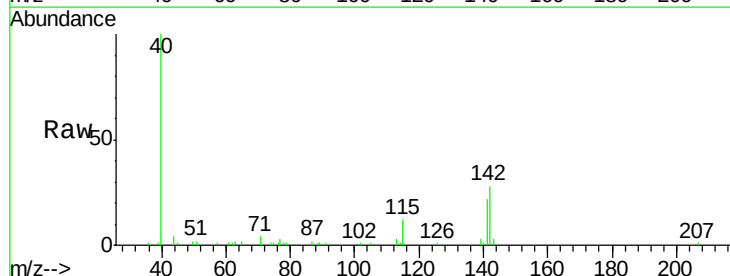
Manual Integrations
APPROVED

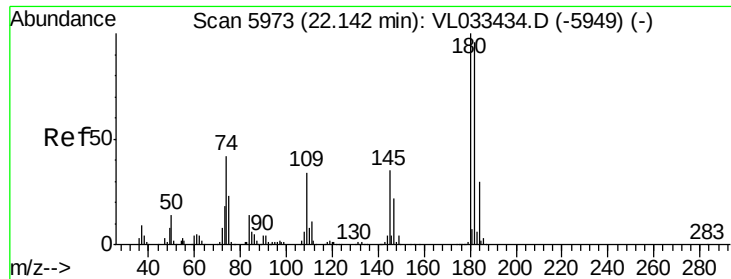
MMDadoda
4/1/2019 1:56:38 AM



#80
Naphthalene, 2-methyl-
Concen: 0.247 ppbv
RT: 25.12 min Scan# 6900
Delta R.T. 0.01 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.1	66.6	99.8
115	48.7	34.4	51.6





#81
 1,2,4-Trichlorobenzene
 Concen: 0.785 ppbv m
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
180	100	89973		
182	0.0	77.0	115.4#	
184	0.0	24.6	36.8#	

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:56:38 AM

