

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080519\
 Data File : VL034087.D
 Acq On : 5 Aug 2019 13:24
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 12:41:10 PM

Quant Time: Aug 05 13:58:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 2019
 QLast Update : Mon Aug 05 13:52:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1128257	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2265724	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2452413	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.52	95	1909440	8.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	88.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	260740	1.211 ppbv	99
3) Chlorodifluoromethane	2.99	51	273721	2.058 ppbv	98
4) Chloromethane	3.14	50	173628	2.262 ppbv	94
5) Vinyl Chloride	3.26	62	152285	2.004 ppbv	98
6) Bromomethane	3.48	94	74589	1.313 ppbv	99
7) Chloroethane	3.57	64	54622	1.490 ppbv	94
8) Dichlorotetrafluoroethane	3.19	85	334411	1.589 ppbv	95
9) Propene	3.01	41	159594	3.108 ppbv	95
10) Heptane	8.20	43	416466	2.929 ppbv	100
11) Trichlorofluoromethane	3.97	101	335968	1.558 ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.51	101	236589	1.441 ppbv	99
13) Ethanol	3.62	45	50720	2.437 ppbv	97
14) Bromoethene	3.75	108	105548	1.148 ppbv	96
15) Acetone	3.87	43	351650	1.894 ppbv	100
16) 1,3-Butadiene	3.33	39	156470	2.303 ppbv	100
17) tert-Butyl alcohol	4.32	59	306945	2.277 ppbv	99
18) 1,1-Dichloroethene	4.31	96	108560	1.511 ppbv	94
19) Isopropyl Alcohol	3.99	45	254867	2.224 ppbv	92
20) Methylene Chloride	4.37	84	94624	1.415 ppbv	92
21) Allyl Chloride	4.44	41	223492	1.986 ppbv	99
22) trans-1,2-Dichloroethene	4.92	96	104037	1.421 ppbv	96
23) Vinyl Acetate	5.11	43	568253	2.970 ppbv #	96
24) 1,1-Dichloroethane	5.05	63	325738	2.027 ppbv	98
25) Ethyl Acetate	5.72	43	669060	2.436 ppbv	98
26) Hexane	5.73	57	279152	2.245 ppbv	98
27) Carbon Disulfide	4.58	76	291726	1.576 ppbv	99
28) Methyl tert-Butyl Ether	5.07	73	466504	2.499 ppbv	99
29) Chloroform	5.80	83	380681	1.760 ppbv	95
30) Cyclohexane	7.19	84	217597	2.194 ppbv	90
31) cis-1,2-Dichloroethene	5.59	61	277926	2.279 ppbv	94
32) 1,1,1-Trichloroethane	6.57	97	366229	1.605 ppbv	99
34) 2-Butanone	5.29	43	450944	3.475 ppbv	100
35) Carbon Tetrachloride	7.08	117	362513	1.980 ppbv	97
36) Benzene	6.95	78	550391	2.548 ppbv	94
37) 1,2-Dichloroethane	6.36	62	283340	2.011 ppbv	98
38) Trichloroethene	7.91	130	197723	2.710 ppbv	94
39) 1,2-Dichloropropane	7.68	63	215606	2.760 ppbv	94
40) 1,4-Dioxane	7.91	88	79222	2.646 ppbv #	1
41) Tetrahydrofuran	6.10	42	276183	3.970 ppbv	99
42) Bromodichloromethane	7.86	83	424229	2.389 ppbv	95
43) Methyl Methacrylate	8.08	69	226074m	3.035 ppbv	

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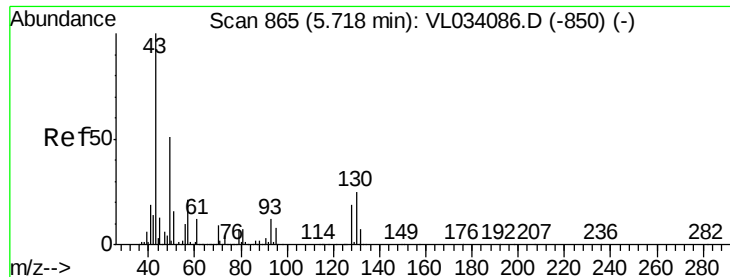
Manual Integrations
 APPROVED

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 8/8/2019 12:41:10 PM

Quant Time: Aug 05 13:58:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 2019
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	1013036	3.141	ppbv	96
45) t-1,3-Dichloropropene	9.36	75	284594	3.091	ppbv	98
46) cis-1,3-Dichloropropene	8.78	75	329169	3.080	ppbv	97
47) 1,1,2-Trichloroethane	9.56	97	213471	2.538	ppbv	94
48) Dibromochloromethane	10.40	129	348109	2.446	ppbv	97
49) Bromoform	13.14	173	310638	2.519	ppbv	100
50) 4-Methyl-2-Pentanone	8.82	43	694386	3.603	ppbv	98
51) 2-Hexanone	10.22	43	583063	3.924	ppbv #	99
52) Tetrachloroethene	11.32	164	194468	3.086	ppbv	94
53) Toluene	9.89	91	652308	3.039	ppbv	97
54) 1,2-Dibromoethane	10.70	107	317693	2.545	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.23	131	237745	2.199	ppbv #	1
57) Chlorobenzene	12.25	112	470917	2.351	ppbv #	95
58) Ethyl Benzene	12.80	91	876357	2.707	ppbv	100
59) m/p-Xylene	13.06	91	1439980m	4.979	ppbv	
60) o-Xylene	13.79	91	708426	2.438	ppbv	98
61) Styrene	13.62	104	559156	2.940	ppbv	99
62) Isopropylbenzene	14.77	105	964403	2.528	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.78	83	503704	2.202	ppbv	100
64) n-propylbenzene	15.66	120	245845m	2.548	ppbv	
65) tert-Butylbenzene	16.85	119	871554	2.545	ppbv	99
66) Benzyl Chloride	17.10	91	489174	2.921	ppbv	99
67) sec-Butylbenzene	17.40	105	1245843	2.539	ppbv	95
69) p-Isopropyltoluene	17.76	119	1007907	2.522	ppbv	98
70) n-Butylbenzene	18.65	91	1097727	2.518	ppbv	97
71) 2-Chlorotoluene	15.56	91	770053	2.727	ppbv	97
72) 4-Ethyltoluene	15.94	105	857943	2.634	ppbv	98
73) 1,3,5-Trimethylbenzene	16.10	105	821975	2.563	ppbv	94
74) 1,2,4-Trimethylbenzene	16.86	105	858104	2.418	ppbv	92
75) 1,3-Dichlorobenzene	17.11	146	467193	2.224	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	481936	2.429	ppbv	99
77) 1,2-Dichlorobenzene	17.93	146	475208m	2.408	ppbv	
78) Hexachloro-1,3-Butadiene	23.49	225	364475	2.013	ppbv	98
79) Naphthalene	22.33	128	913201	2.874	ppbv	97
80) Naphthalene, 2-methyl-	25.07	142	251384	2.062	ppbv	98
81) 1,2,4-Trichlorobenzene	22.06	180	494201	2.515	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 863

Delta R.T. -0.01 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1128257

Ion Ratio Lower Upper

49 100

128 39.3 19.5 58.5

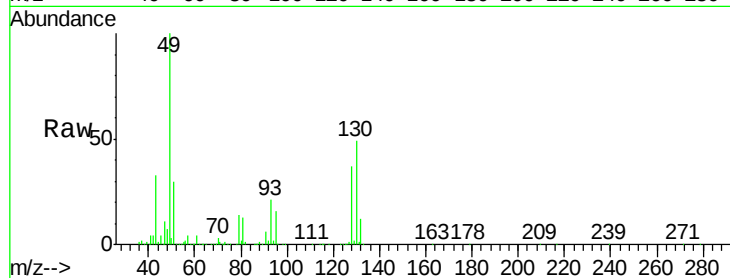
130 51.2 25.4 76.0

Manual Integrations

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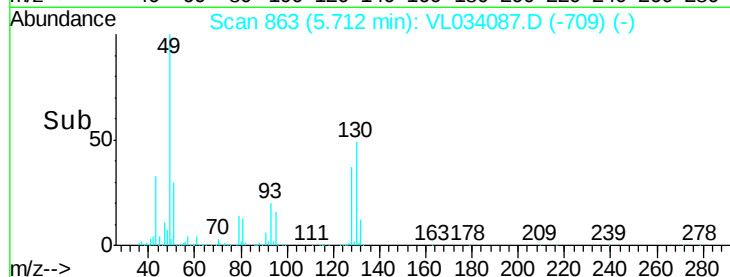
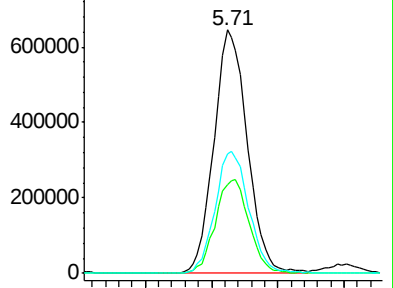
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 1.211 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.00 min

Lab File: VL034087.D

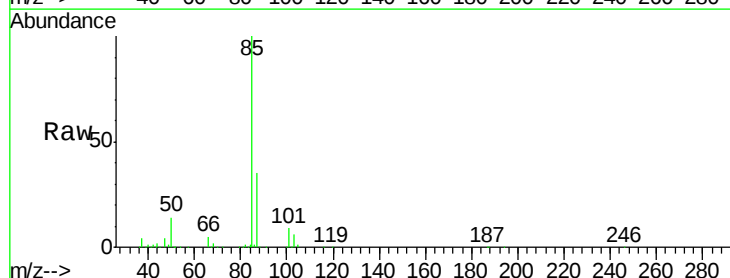
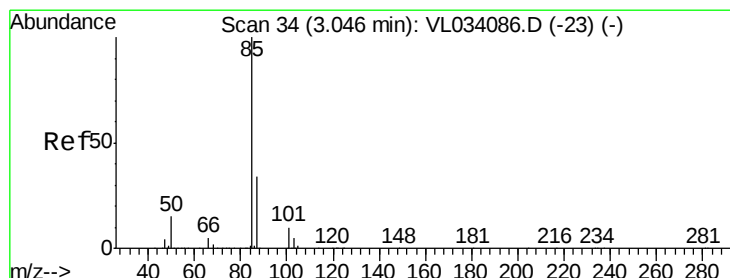
Acq: 5 Aug 2019 13:24

Tgt Ion: 85 Resp: 260740

Ion Ratio Lower Upper

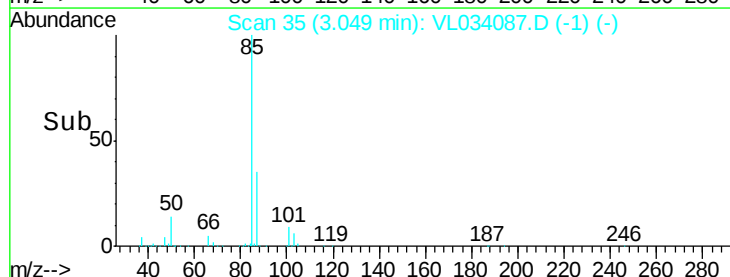
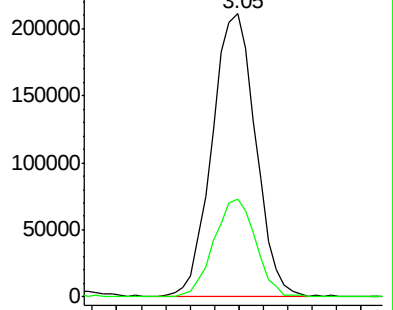
85 100

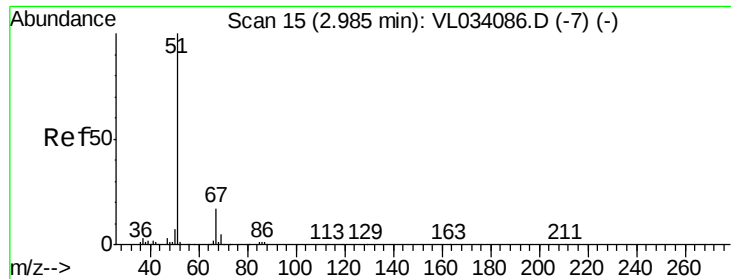
87 34.7 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

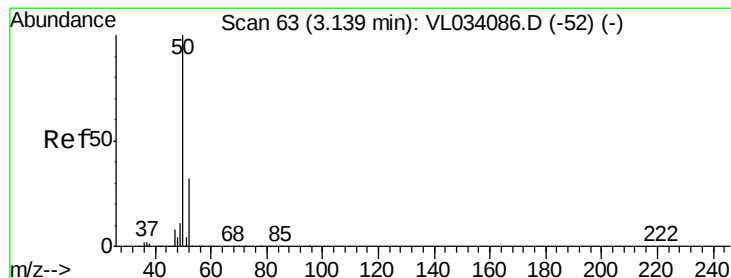
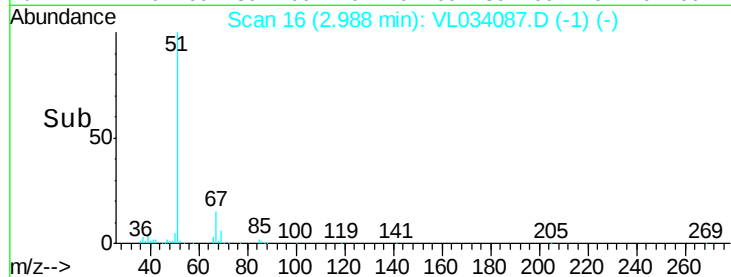
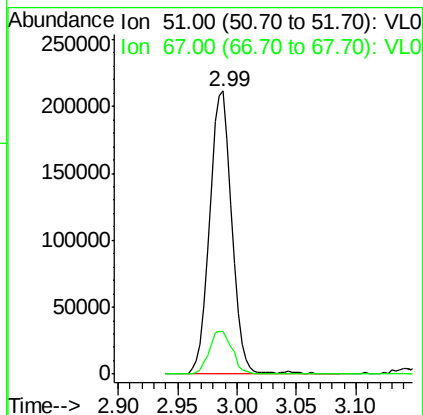
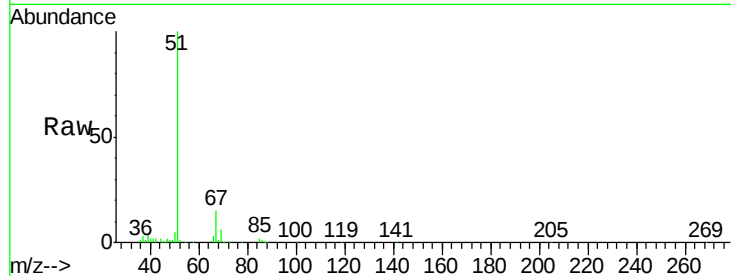
Chlorodifluoromethane
 Concen: 2.058 ppbv
 RT: 2.99 min Scan# 16
 Delta R.T. 0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Instrument :
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 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
51	100		
67	15.6	13.3	19.9

Manual Integrations
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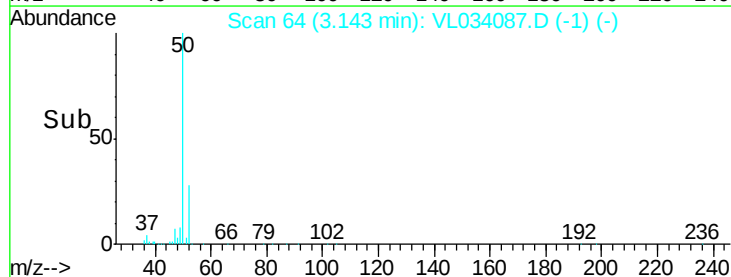
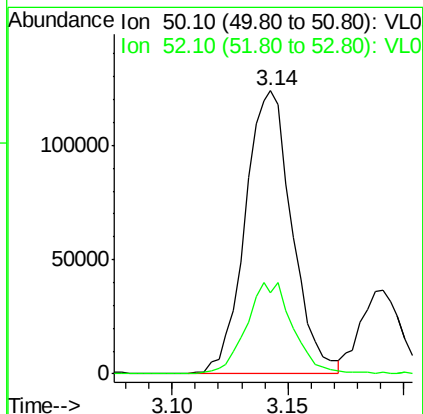
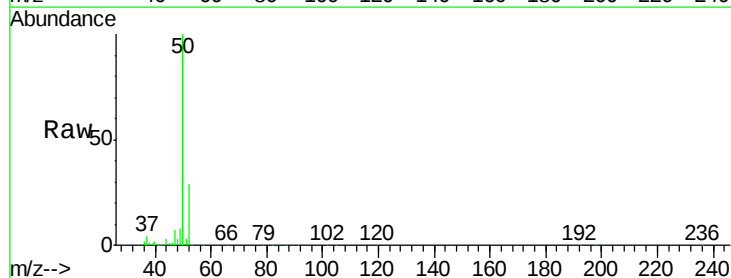
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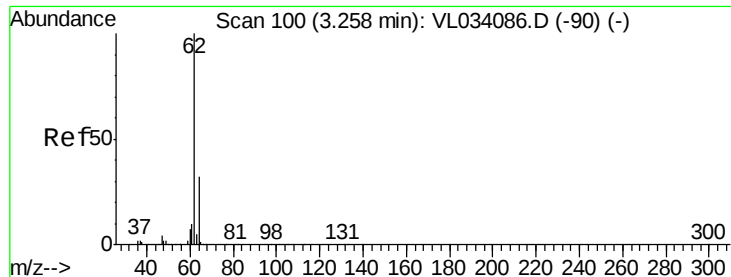


#4

Chloromethane
 Concen: 2.262 ppbv
 RT: 3.14 min Scan# 64
 Delta R.T. 0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Tgt Ion	Ratio	Lower	Upper
50	100		
52	28.7	25.7	38.5





#5

Vinyl Chloride

Concen: 2.004 ppbv

RT: 3.26 min Scan# 101

Delta R.T. 0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 152285

Ion Ratio Lower Upper

62 100

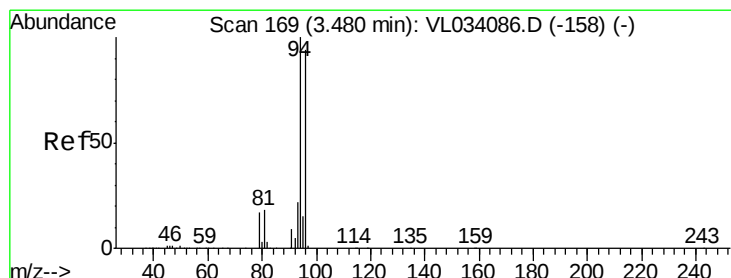
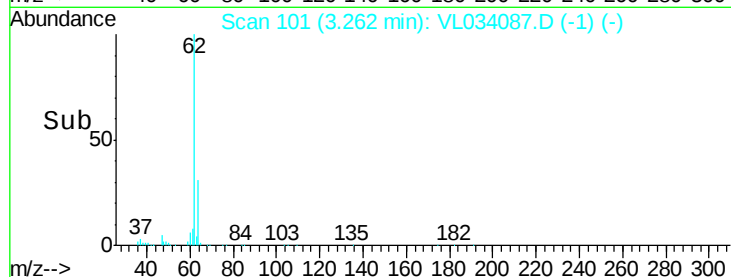
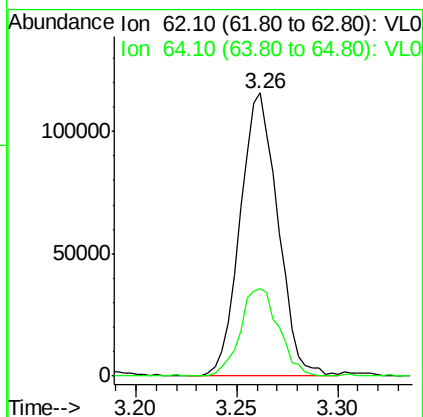
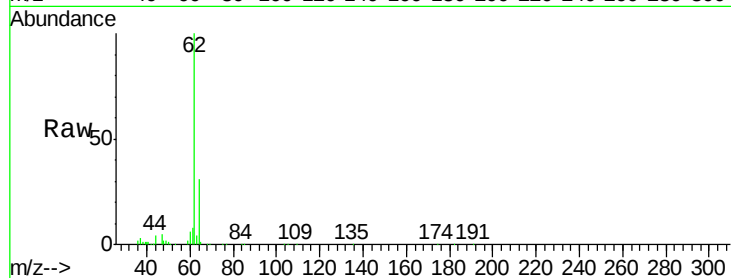
64 30.9 25.8 38.6

Manual Integrations

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#6

Bromomethane

Concen: 1.313 ppbv

RT: 3.48 min Scan# 170

Delta R.T. 0.00 min

Lab File: VL034087.D

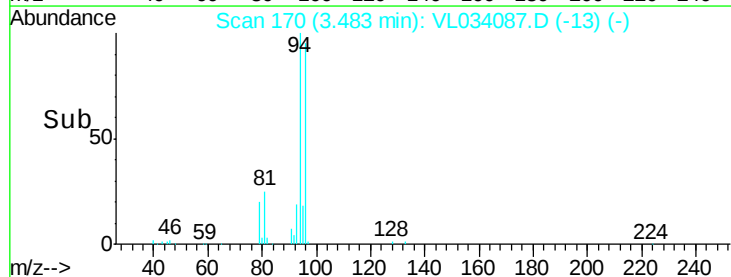
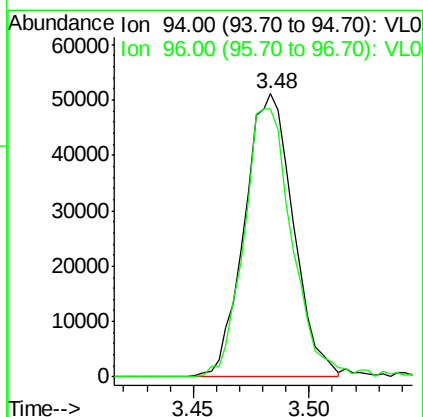
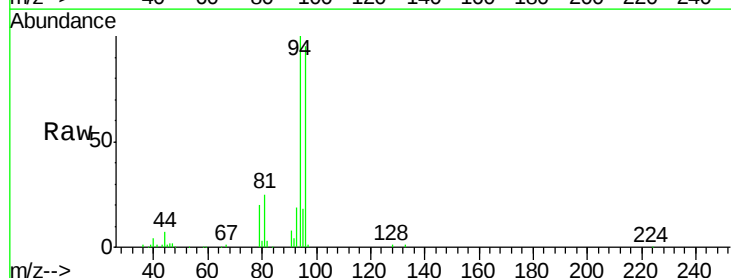
Acq: 5 Aug 2019 13:24

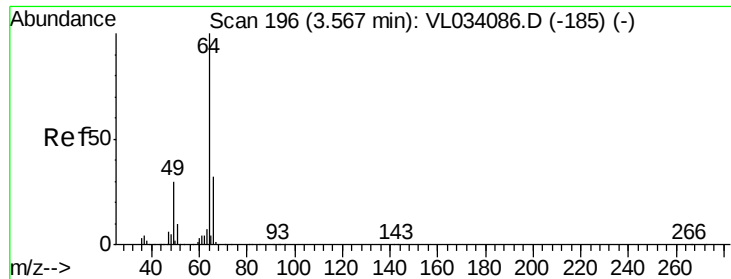
Tgt Ion: 94 Resp: 74589

Ion Ratio Lower Upper

94 100

96 94.8 75.3 112.9





#7

Chloroethane

Concen: 1.490 ppbv

RT: 3.57 min Scan# 196

Delta R.T. 0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 54622

Ion Ratio Lower Upper

64 100

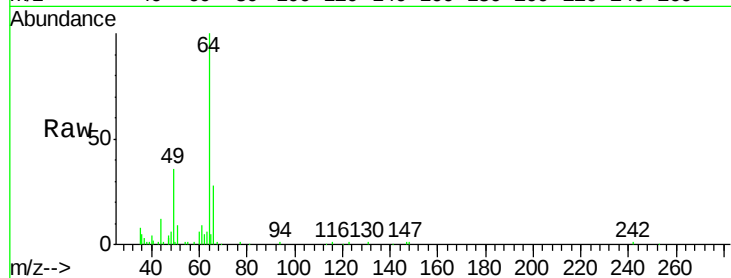
66 28.1 25.2 37.8

Manual Integrations

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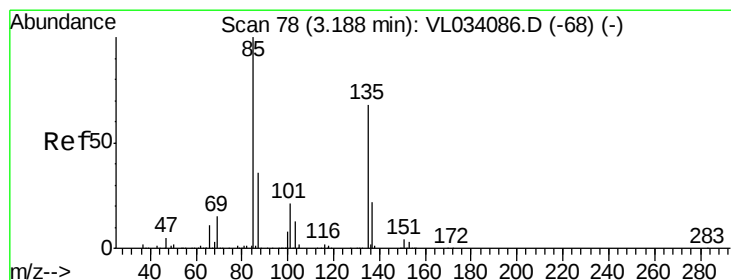
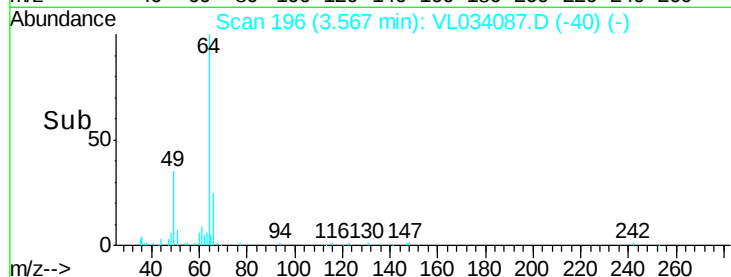
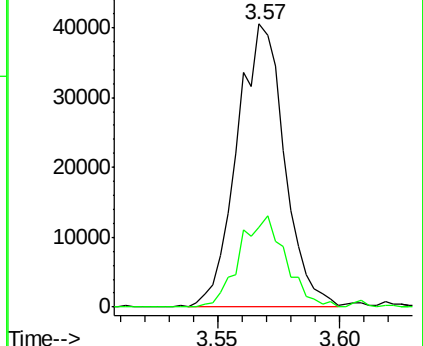
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.589 ppbv

RT: 3.19 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL034087.D

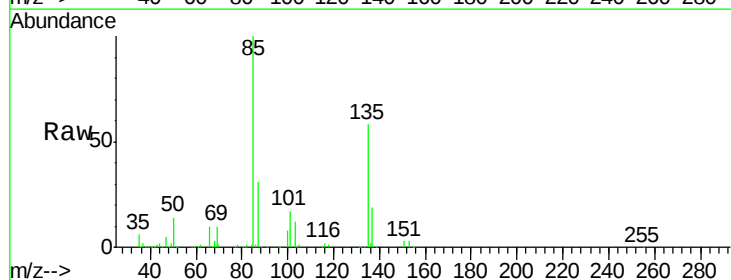
Acq: 5 Aug 2019 13:24

Tgt Ion: 85 Resp: 334411

Ion Ratio Lower Upper

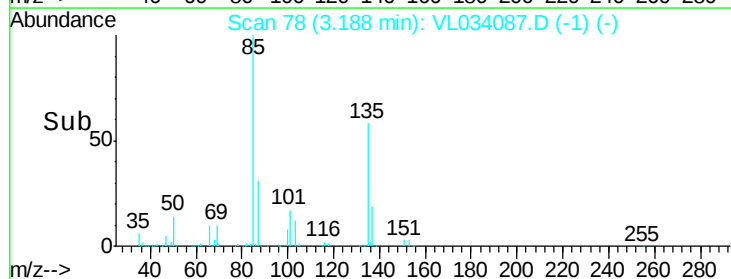
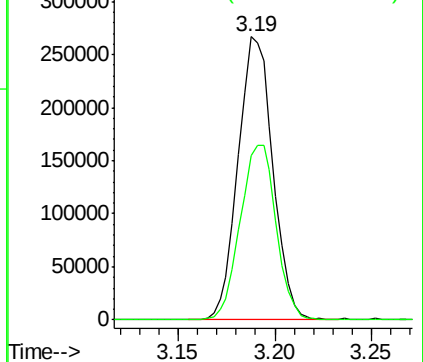
85 100

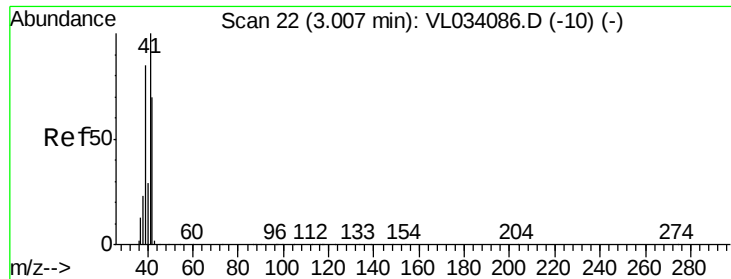
135 63.8 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





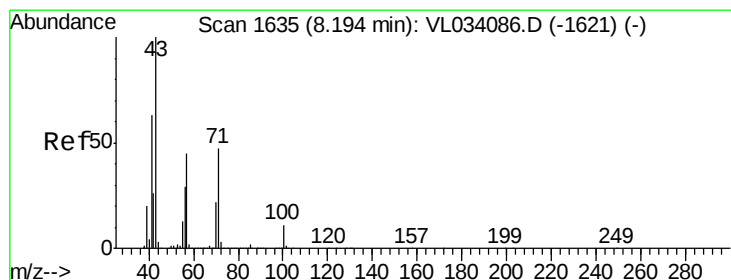
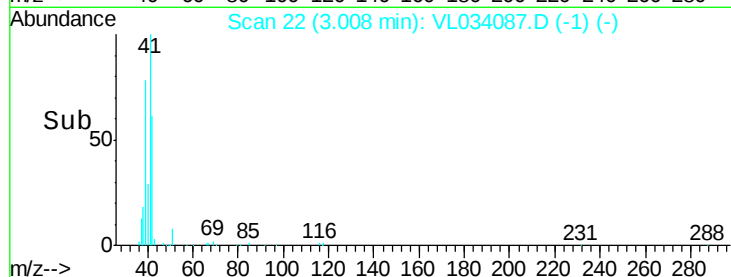
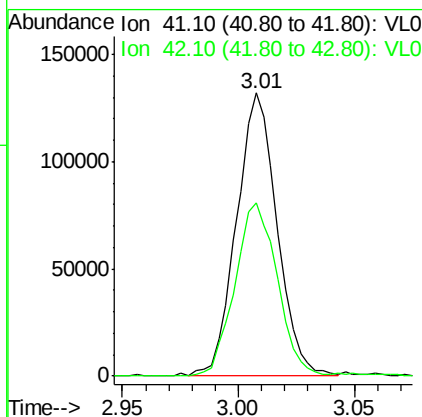
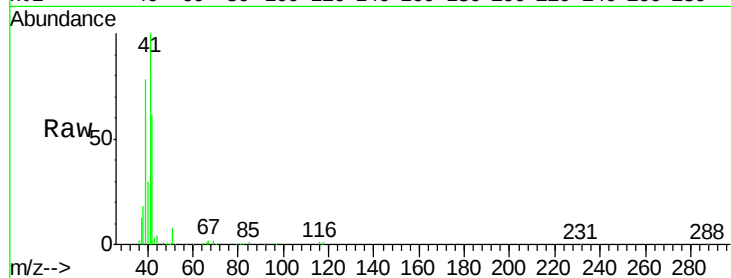
#9
 Propene
 Concen: 3.108 ppbv
 RT: 3.01 min Scan# 22
 Delta R.T. 0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ion	Ratio	Lower	Upper
41	41	100		
42	42	65.5	55.8	83.6

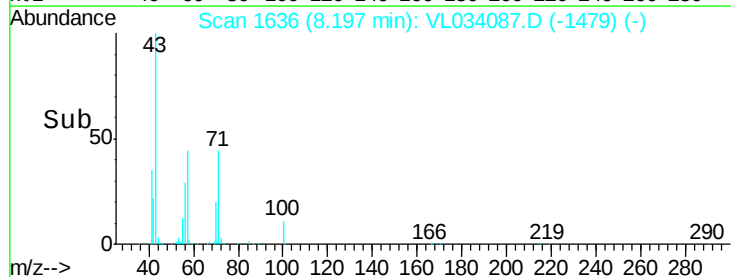
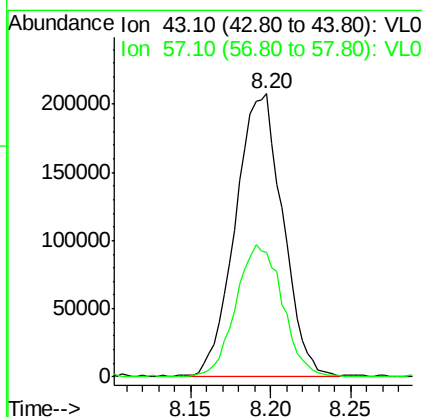
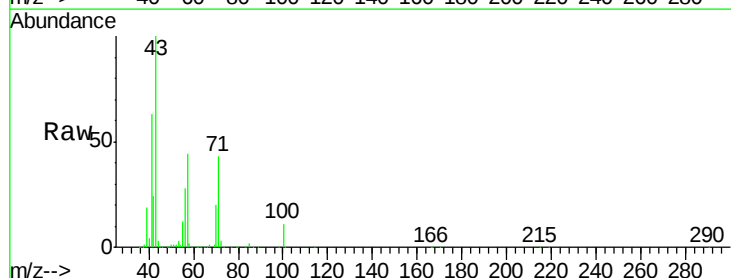
Manual Integrations
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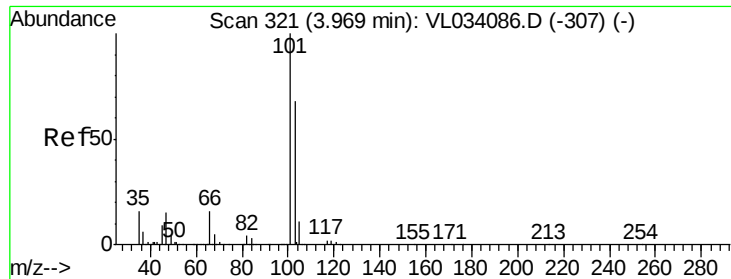
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#10
 Heptane
 Concen: 2.929 ppbv
 RT: 8.20 min Scan# 1636
 Delta R.T. 0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Tgt Ion	Ion	Ratio	Lower	Upper
43	43	100		
57	57	46.3	37.2	55.8





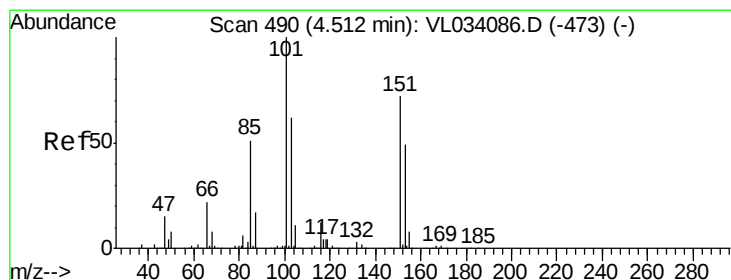
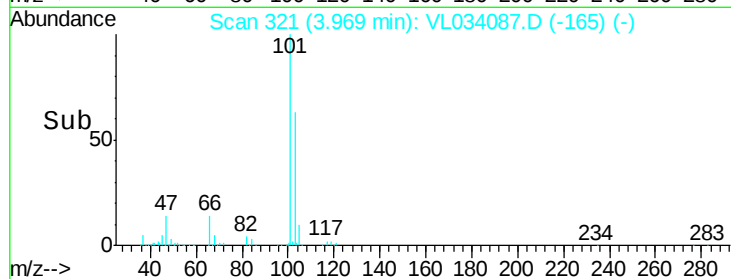
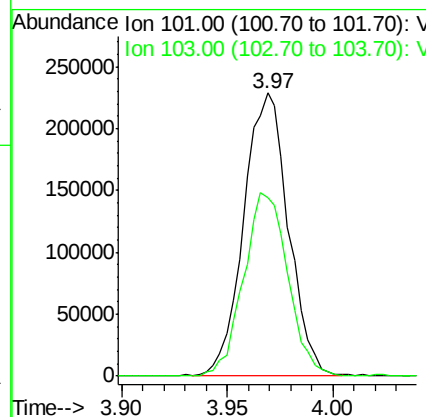
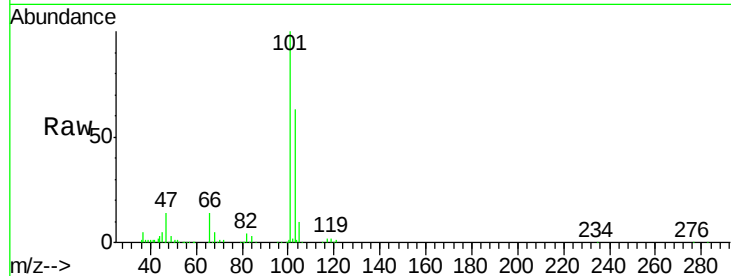
#11
 Trichlorofluoromethane
 Concen: 1.558 ppbv
 RT: 3.97 min Scan# 321
 Delta R.T. 0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.1	54.3	81.5

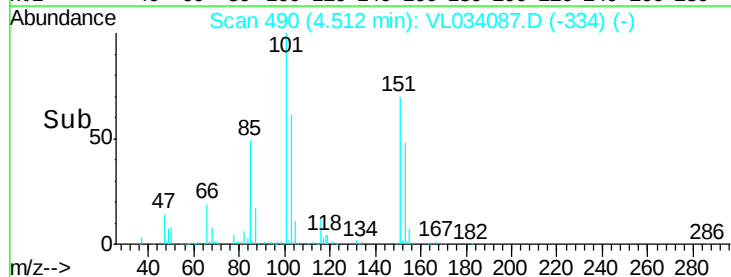
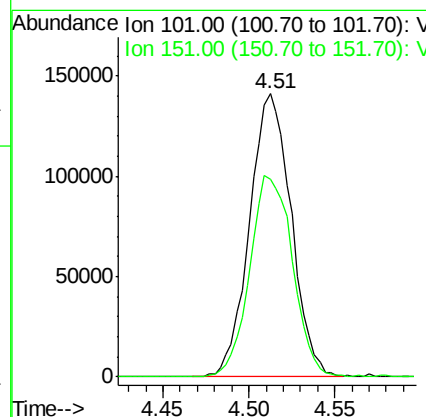
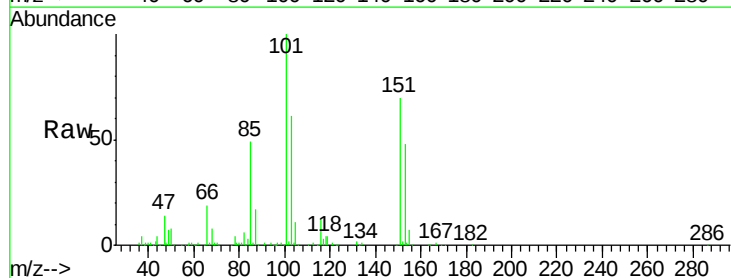
Manual Integrations
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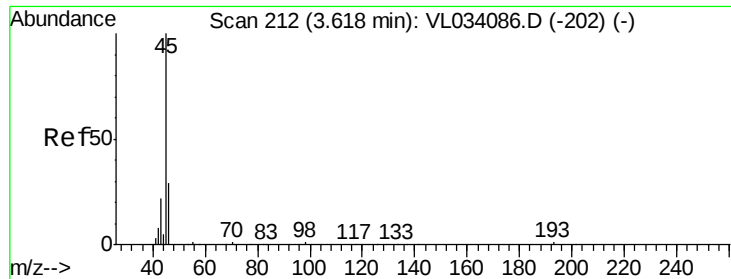
MMDadoda
 8/8/2019 12:41:10 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.441 ppbv
 RT: 4.51 min Scan# 490
 Delta R.T. 0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Tgt Ion	Ratio	Lower	Upper
101	100		
151	73.0	59.4	89.0





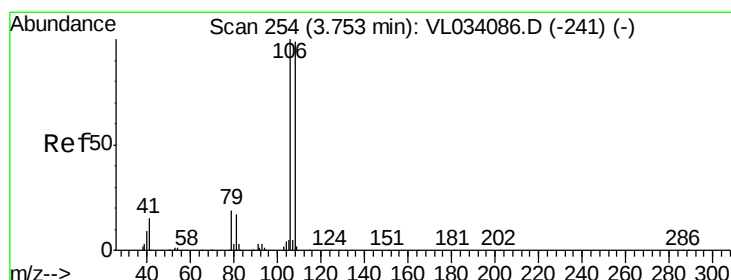
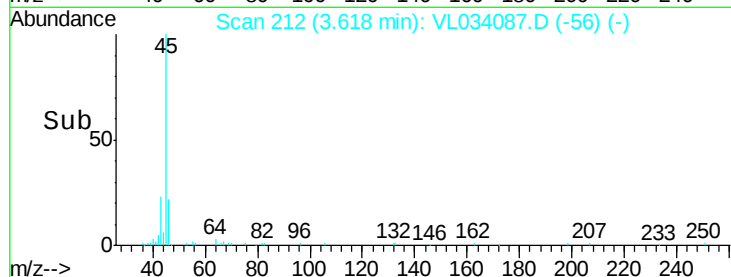
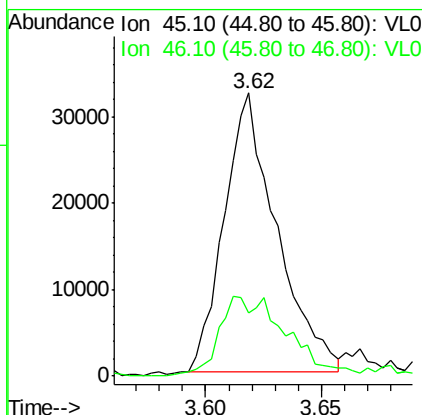
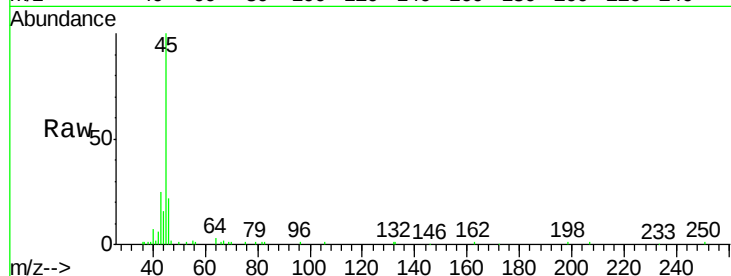
#13
Ethanol
Concen: 2.437 ppbv
RT: 3.62 min Scan# 212
Delta R.T. 0.00 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	45	46	Ratio	Lower	Upper
Resp:	50720				
Ion	45	46	100	14.9	59.5

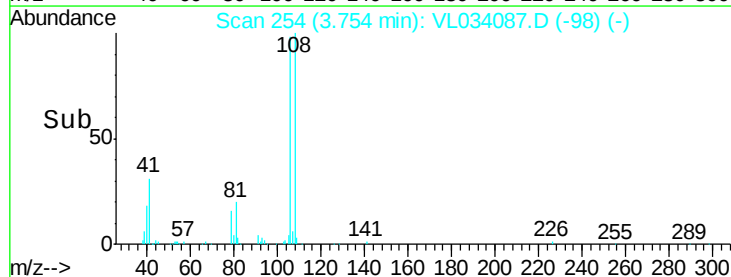
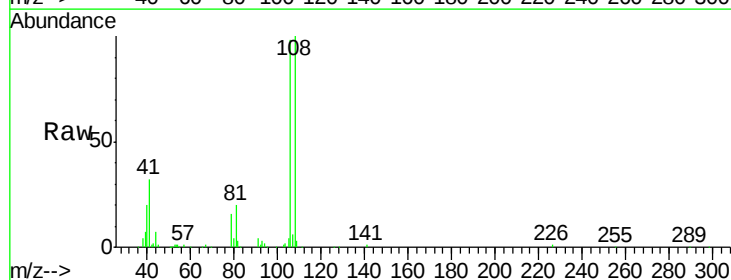
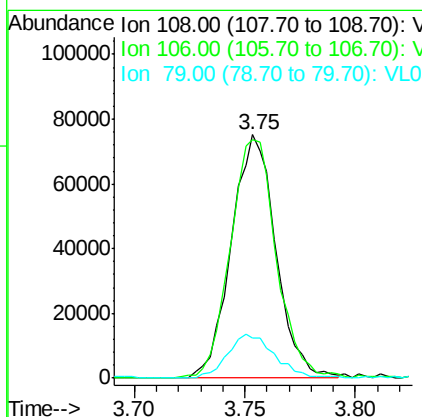
Manual Integrations
APPROVED

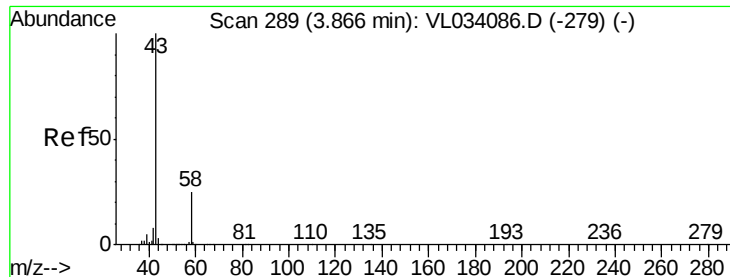
MMDadoda
8/8/2019 12:41:10 PM



#14
Bromoethene
Concen: 1.148 ppbv
RT: 3.75 min Scan# 254
Delta R.T. 0.00 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Tgt Ion	108	106	79	Ratio	Lower	Upper
Resp:	105548					
Ion	108	106	79	100	85.0	127.6
				19.2	15.8	23.8





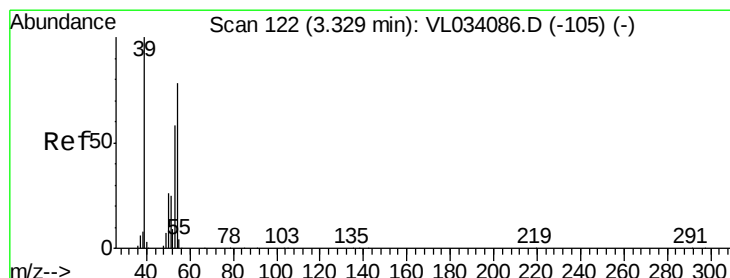
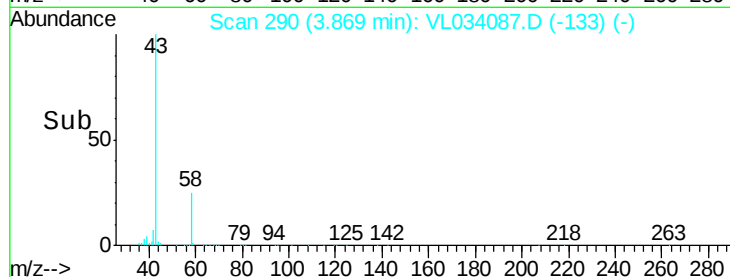
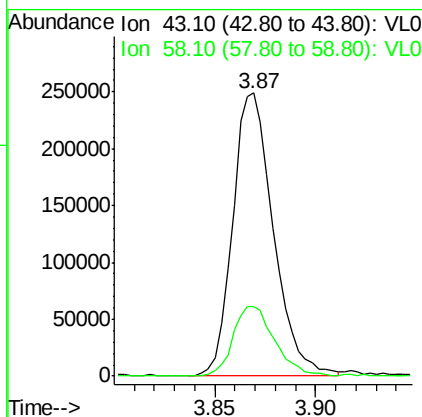
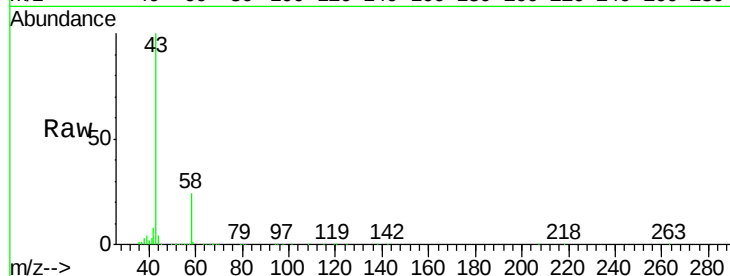
#15
Acetone
Concen: 1.894 ppbv
RT: 3.87 min Scan# 290
Delta R.T. 0.00 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	43	Resp	351650
Ion Ratio	100	Lower	Upper
43	100		
58	25.6	20.6	30.8

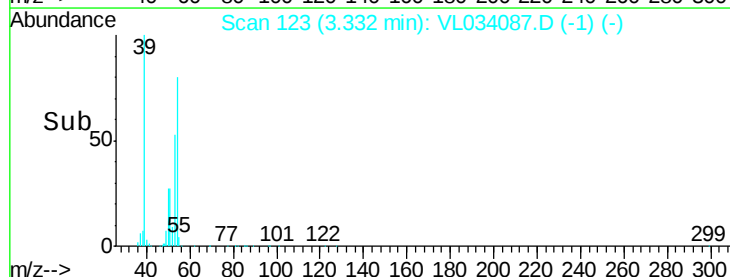
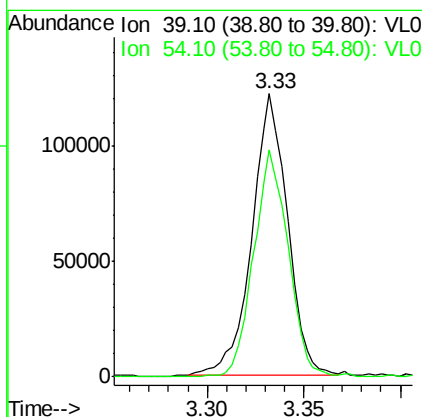
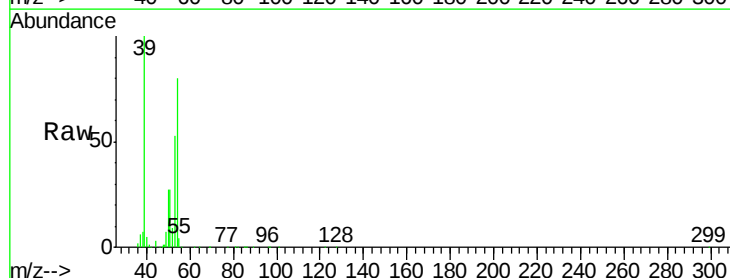
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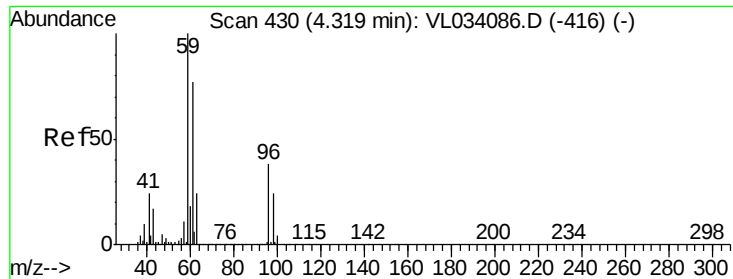
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#16
1,3-Butadiene
Concen: 2.303 ppbv
RT: 3.33 min Scan# 123
Delta R.T. 0.00 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Tgt Ion	39	Resp	156470
Ion Ratio	100	Lower	Upper
39	100		
54	78.5	62.7	94.1





#17

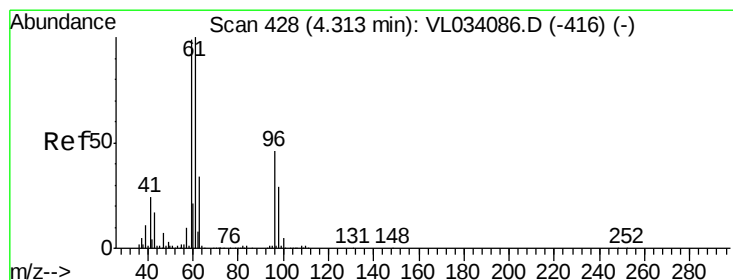
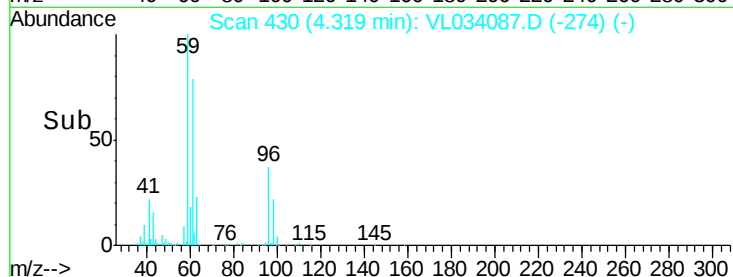
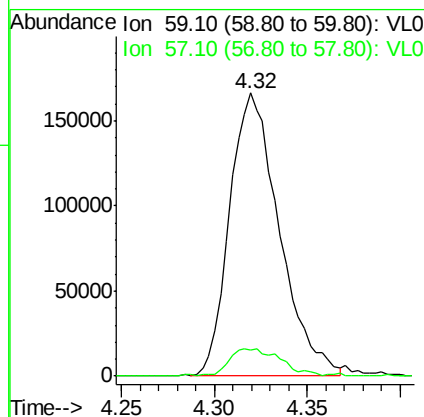
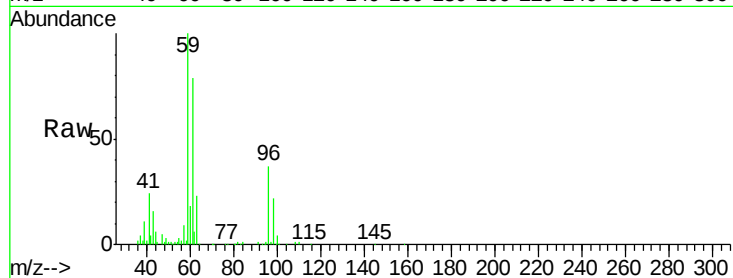
tert-Butyl alcohol
 Concen: 2.277 ppbv
 RT: 4.32 min Scan# 430
 Delta R.T. 0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	59	Resp	306945
Ion Ratio	100	Lower	Upper
57	10.8	8.4	12.6

Manual Integrations
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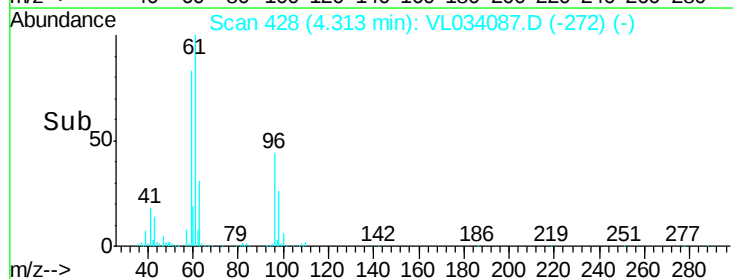
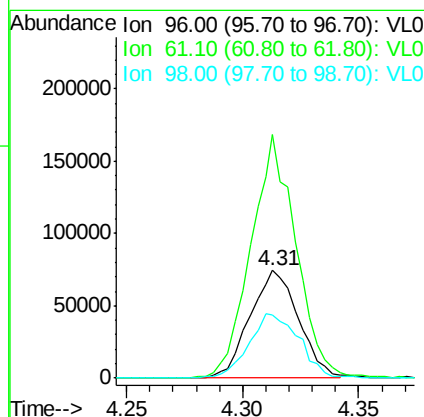
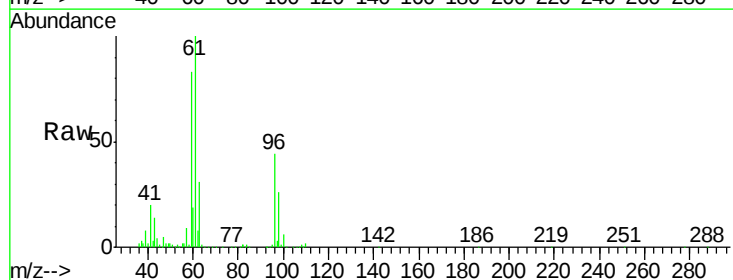
MMDadoda
 8/8/2019 12:41:10 PM

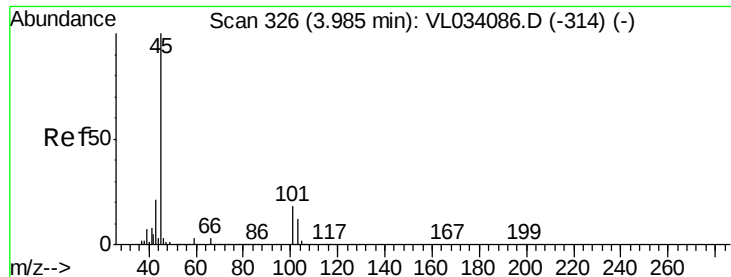


#18

1,1-Dichloroethene
 Concen: 1.511 ppbv
 RT: 4.31 min Scan# 428
 Delta R.T. 0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Tgt Ion	96	Resp	108560
Ion Ratio	100	Lower	Upper
61	226.7	173.1	259.7
98	58.8	50.3	75.5





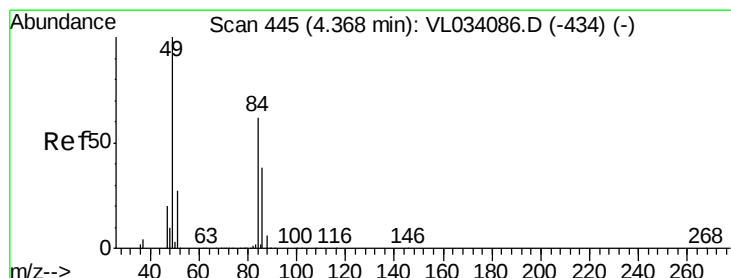
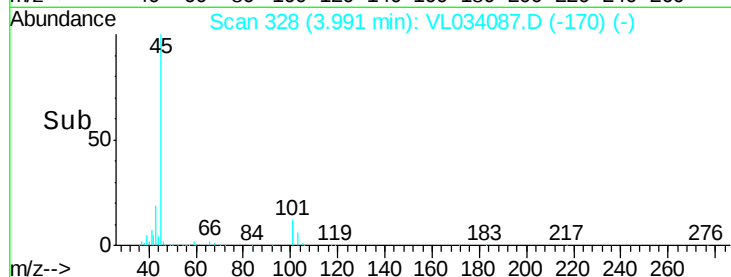
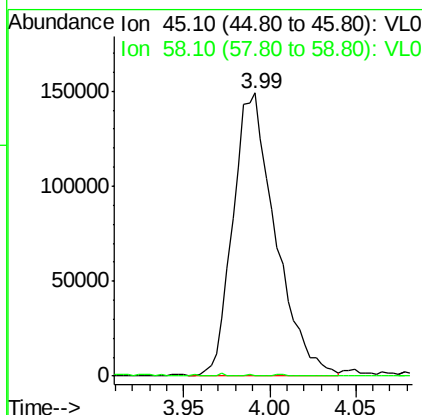
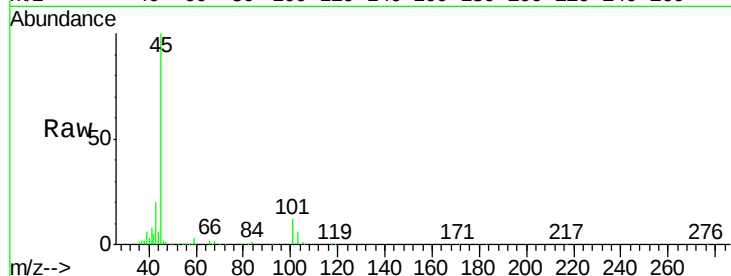
#19
Isopropyl Alcohol
Concen: 2.224 ppbv
RT: 3.99 min Scan# 328
Delta R.T. 0.01 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 45 Resp: 254867
Ion Ratio Lower Upper
45 100
58 35.4 24.6 37.0

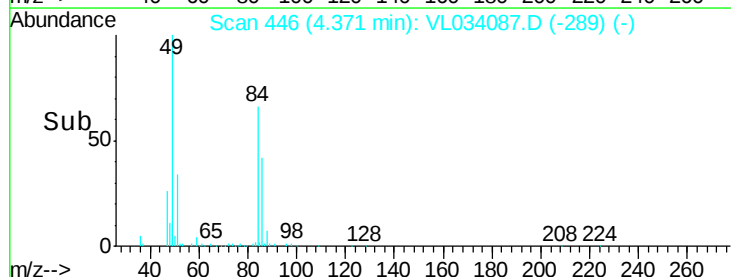
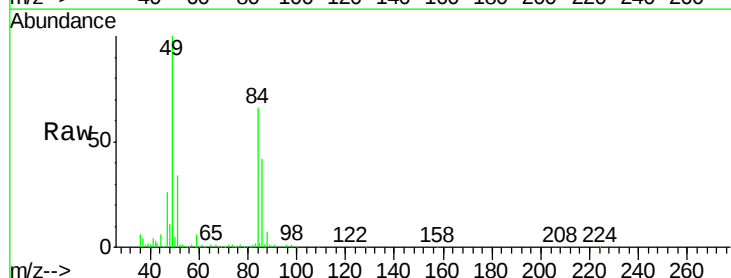
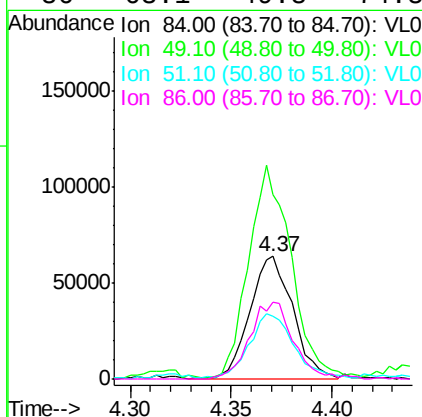
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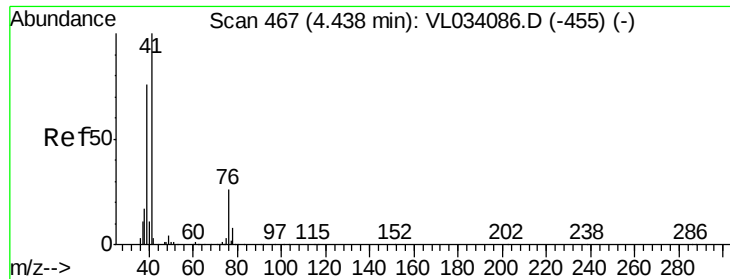
MMDadoda
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#20
Methylene Chloride
Concen: 1.415 ppbv
RT: 4.37 min Scan# 446
Delta R.T. 0.00 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Tgt Ion: 84 Resp: 94624
Ion Ratio Lower Upper
84 100
49 148.5 129.7 194.5
51 49.0 35.8 53.8
86 63.1 49.8 74.8





#21

Allvl Chloride

Concen: 1.986 ppbv

RT: 4.44 min Scan# 466

Delta R.T. -0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

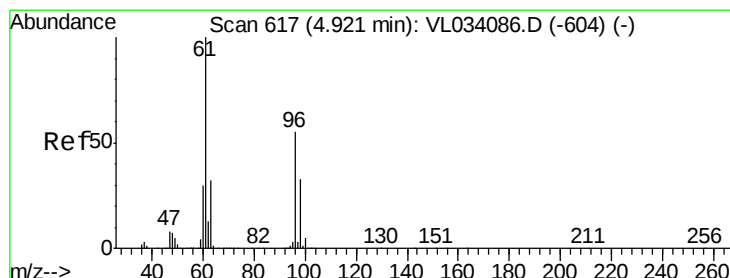
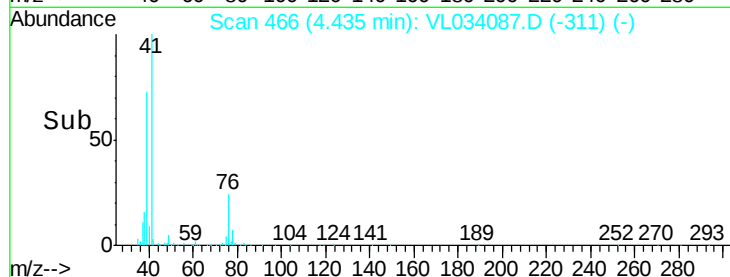
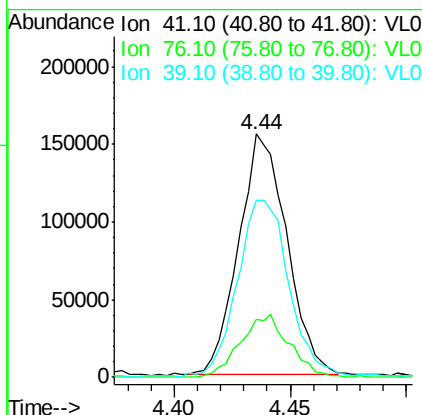
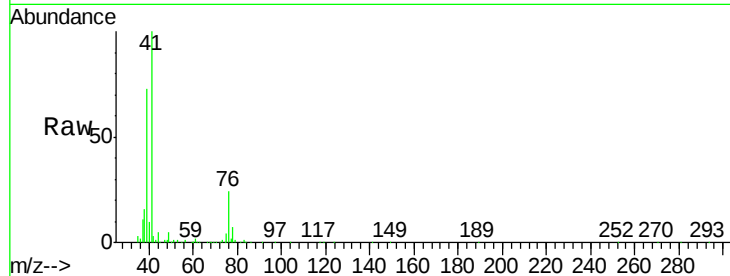
ClientSampleId :

VSTDIC002

Tot Ion:	41	Resp:	223492
Ion	Ratio	Lower	Upper
41	100		
76	26.4	20.8	31.2
39	78.0	61.3	91.9

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#22

trans-1,2-Dichloroethene

Concen: 1.421 ppbv

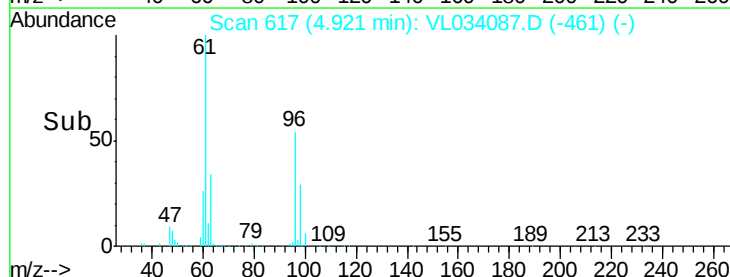
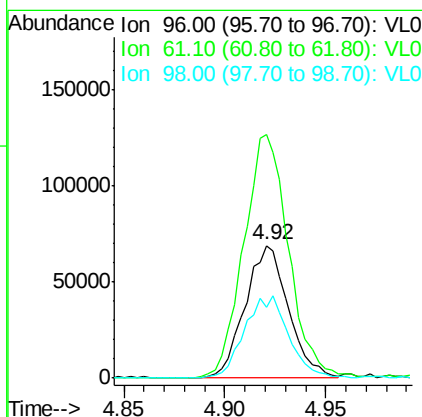
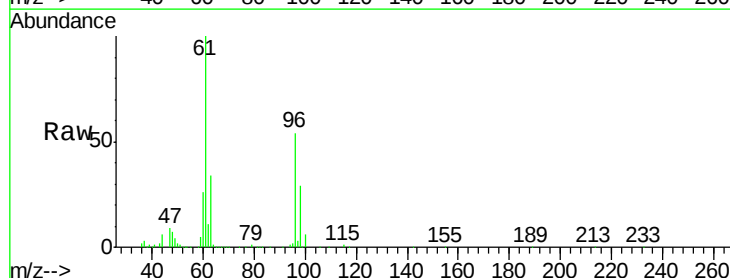
RT: 4.92 min Scan# 617

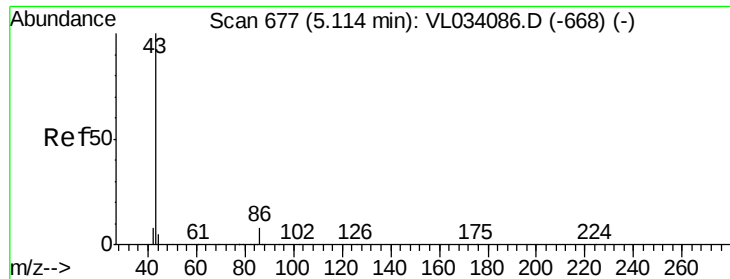
Delta R.T. 0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Tgt Ion:	96	Resp:	104037
Ion	Ratio	Lower	Upper
96	100		
61	183.5	144.2	216.2
98	53.7	48.0	72.0





#23

Vinyl Acetate

Concen: 2.970 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

ClientSampleId :

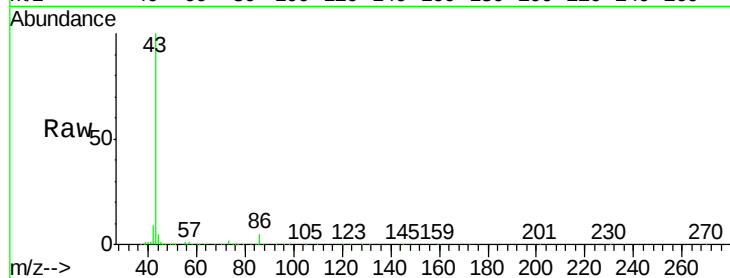
VSTDIC002

Tot Ion: 43 Resp: 568253

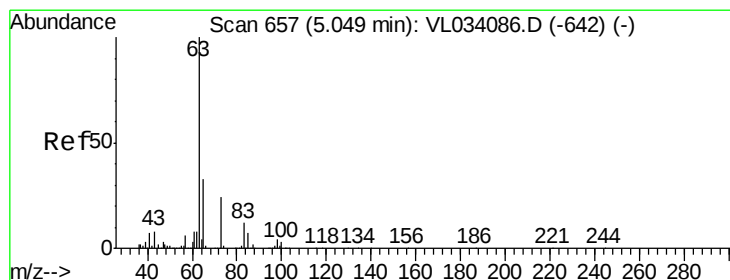
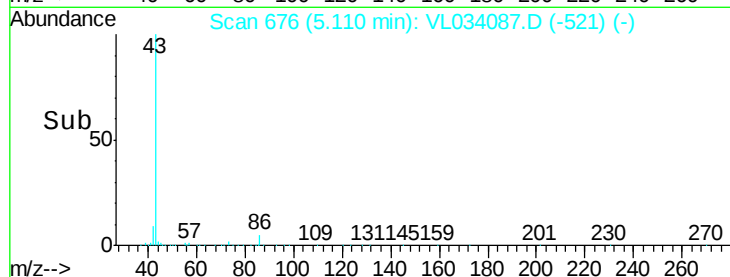
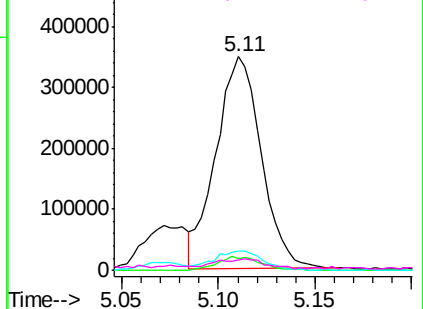
Ion	Ratio	Lower	Upper
43	100		
86	5.4	5.4	8.0#
42	8.6	7.9	11.9
44	3.8	4.0	6.0#

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Abundance Ion 43.10 (42.80 to 43.80): VL0



#24

1,1-Dichloroethane

Concen: 2.027 ppbv

RT: 5.05 min Scan# 656

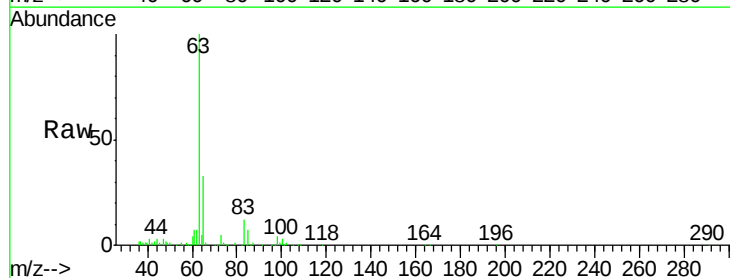
Delta R.T. -0.00 min

Lab File: VL034087.D

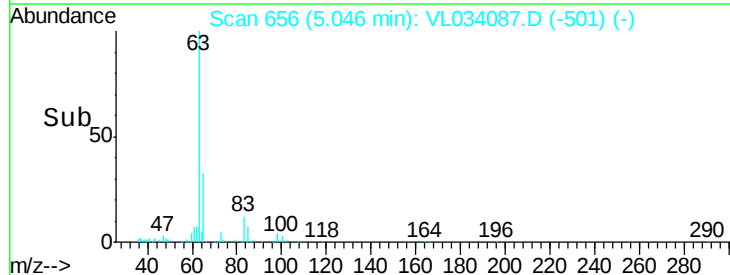
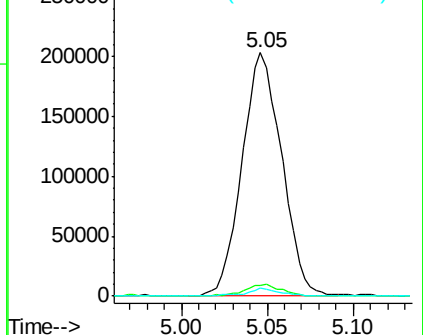
Acq: 5 Aug 2019 13:24

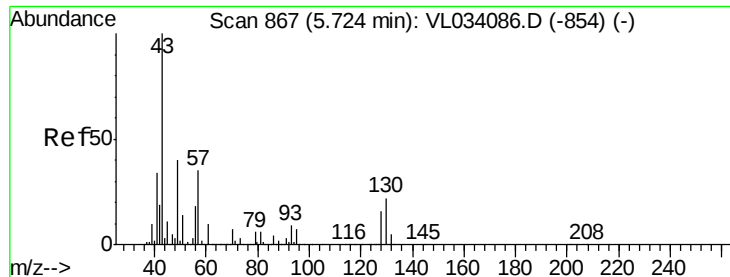
Tgt Ion: 63 Resp: 325738

Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.0	6.0
100	3.4	1.3	3.8



Abundance Ion 63.10 (62.80 to 63.80): VL0





#25

Ethyl Acetate

Concen: 2.436 ppbv

RT: 5.72 min Scan# 867

Delta R.T. 0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

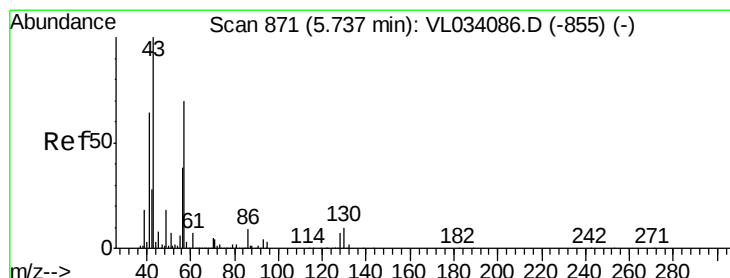
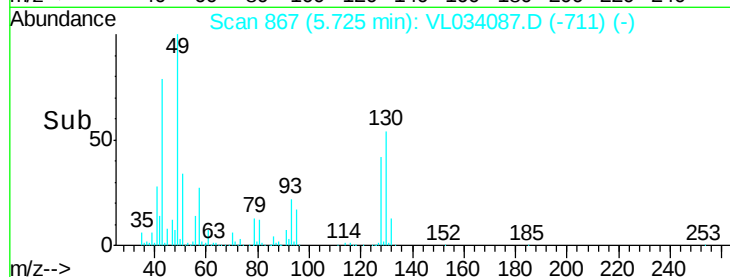
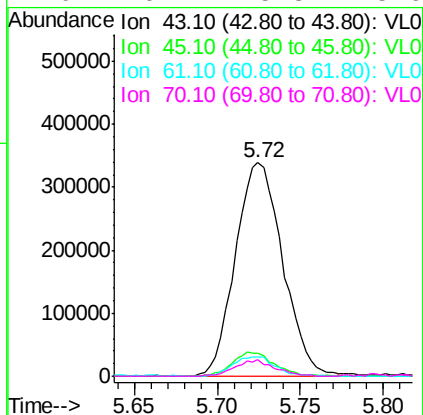
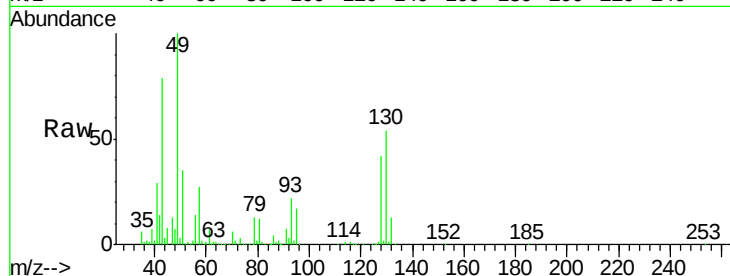
ClientSampleId :

VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	10.1	8.4	12.6		
61	8.4	7.3	10.9		
70	6.7	5.8	8.6		

Manual Integrations
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#26

Hexane

Concen: 2.245 ppbv

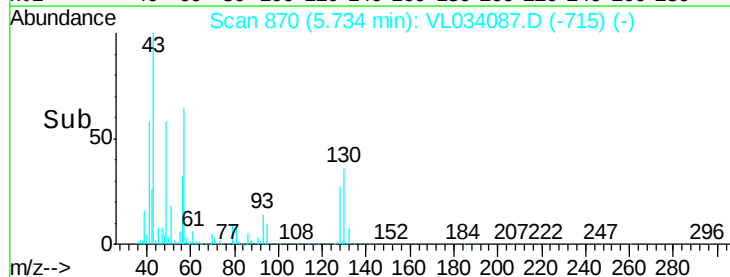
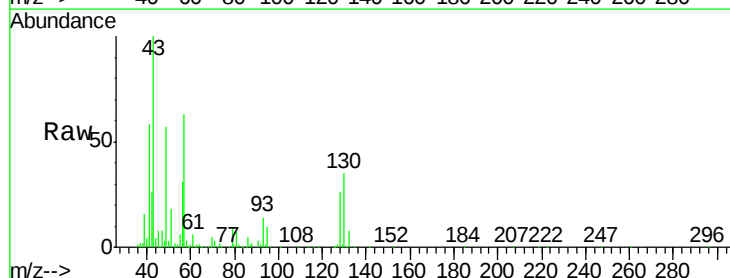
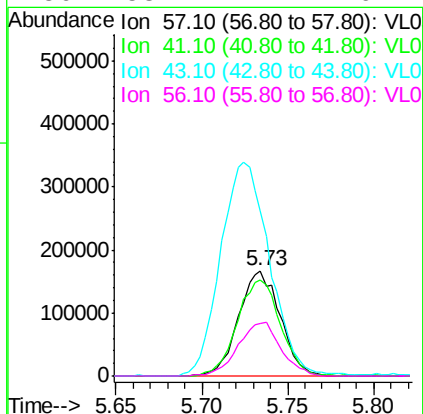
RT: 5.73 min Scan# 870

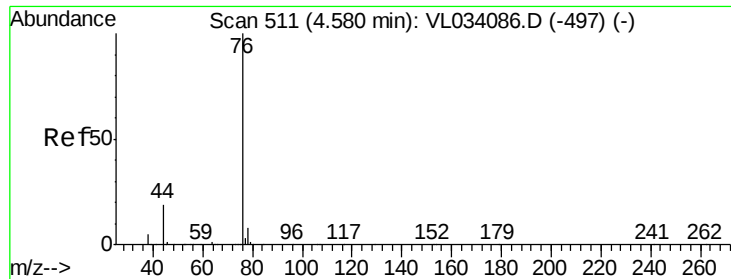
Delta R.T. -0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	97.5	75.7	113.5		
43	240.0	189.8	284.8		
56	53.2	42.7	64.1		





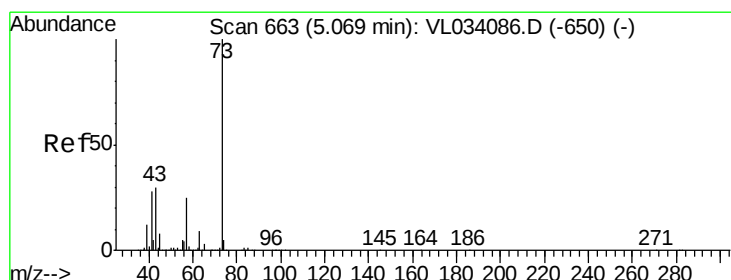
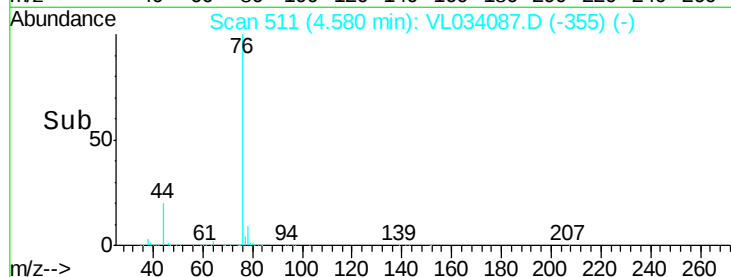
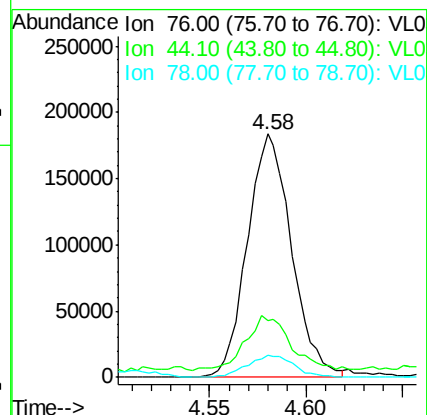
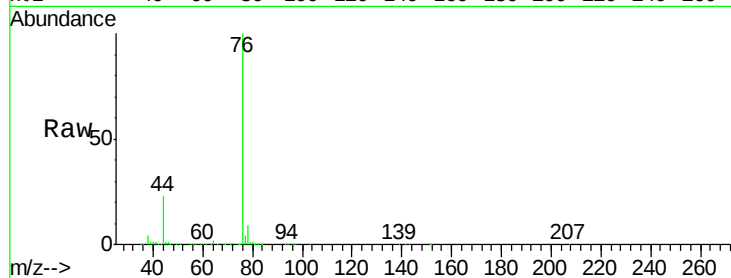
#27
Carbon Disulfide
Concen: 1.576 ppbv
RT: 4.58 min Scan# 511
Delta R.T. 0.00 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
76	100		
44	22.6	17.8	26.6
78	9.7	7.7	11.5

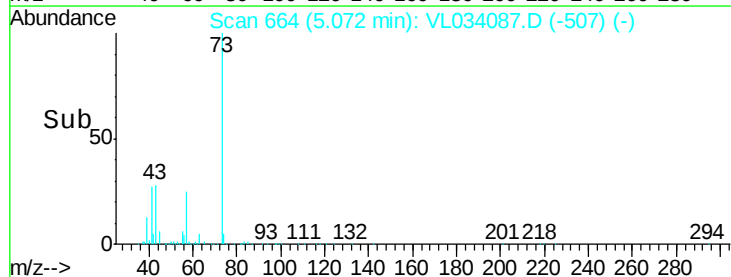
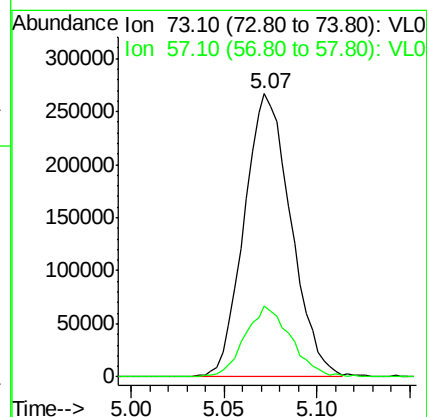
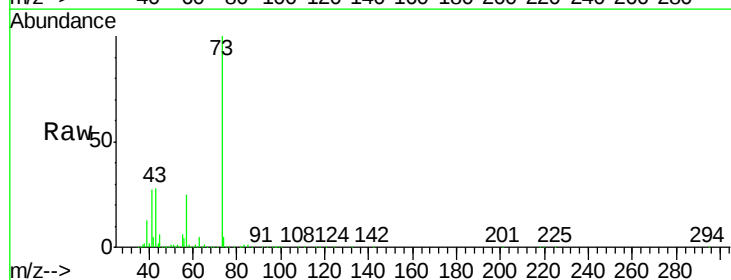
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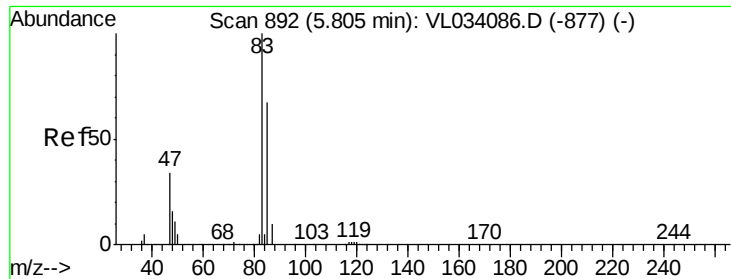
MMDadoda
8/8/2019 12:41:10 PM



#28
Methyl tert-Butyl Ether
Concen: 2.499 ppbv
RT: 5.07 min Scan# 664
Delta R.T. 0.00 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Tgt Ion	Ratio	Lower	Upper
73	100		
57	24.8	19.5	29.3





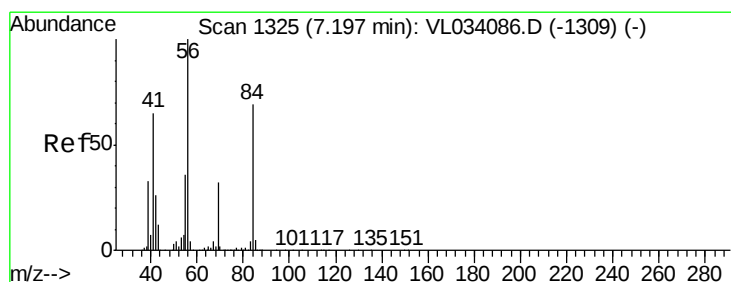
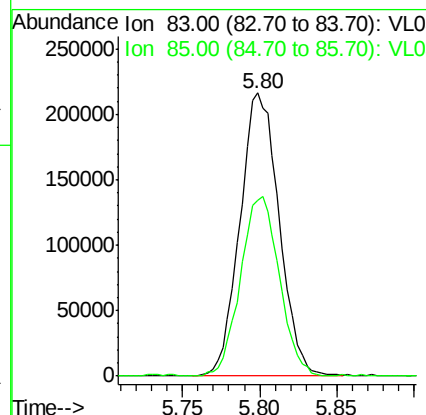
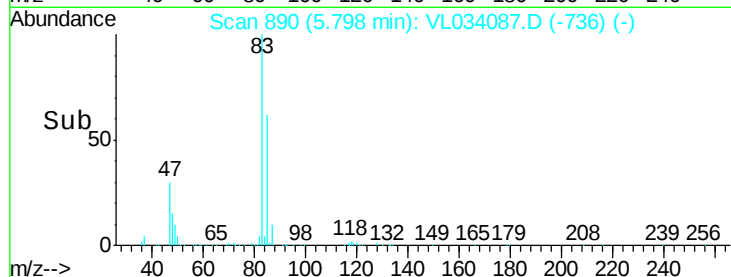
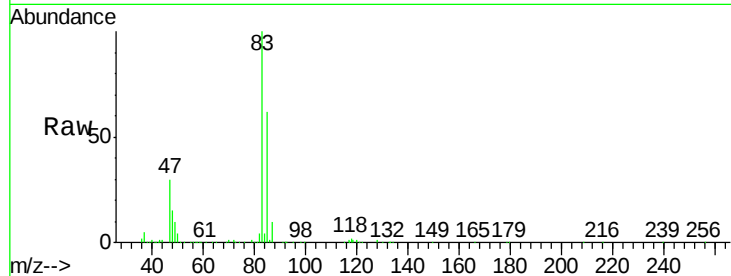
#29
Chloroform
Concen: 1.760 ppbv
RT: 5.80 min Scan# 890
Delta R.T. -0.01 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
83	100		
85	62.1	53.2	79.8

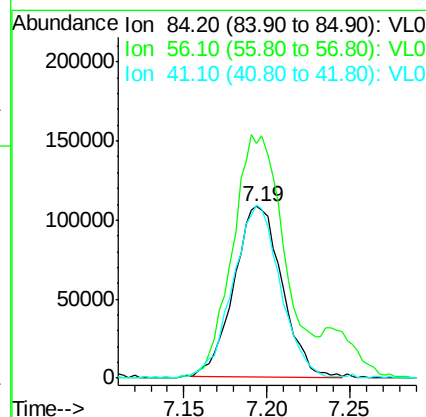
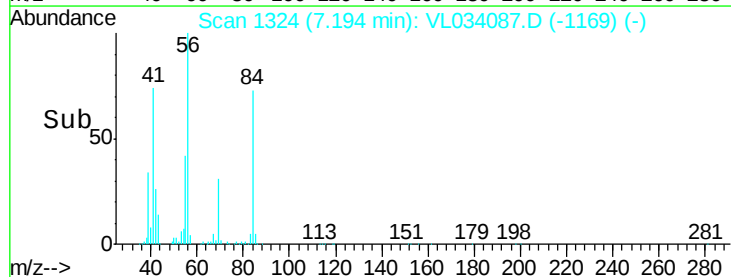
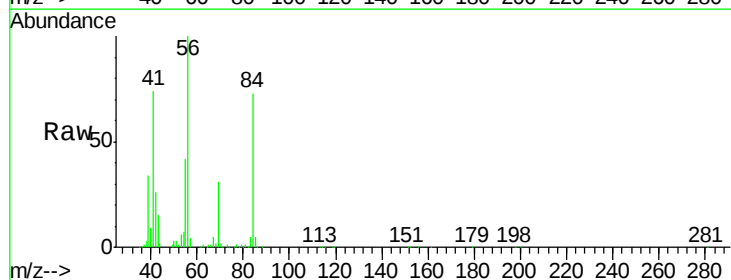
Manual Integrations
APPROVED

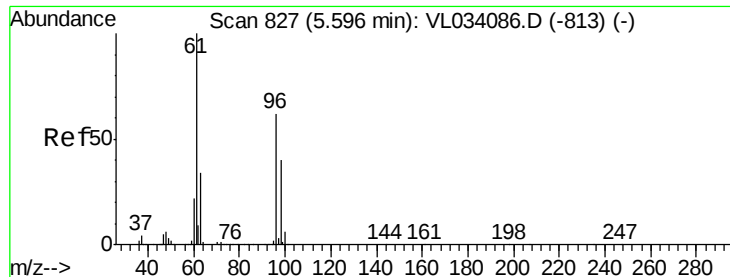
MMDadoda
8/8/2019 12:41:10 PM



#30
Cyclohexane
Concen: 2.194 ppbv
RT: 7.19 min Scan# 1324
Delta R.T. -0.00 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Tgt Ion	Ratio	Lower	Upper
84	100		
56	174.3	122.6	184.0
41	101.2	80.1	120.1





#31

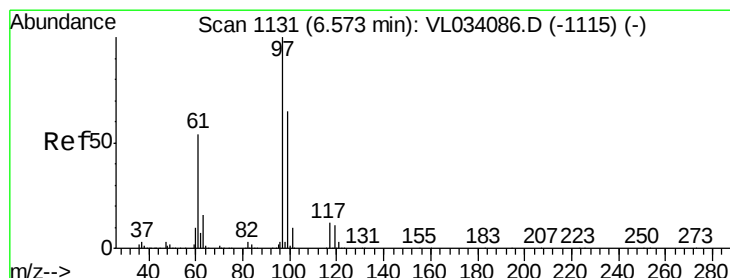
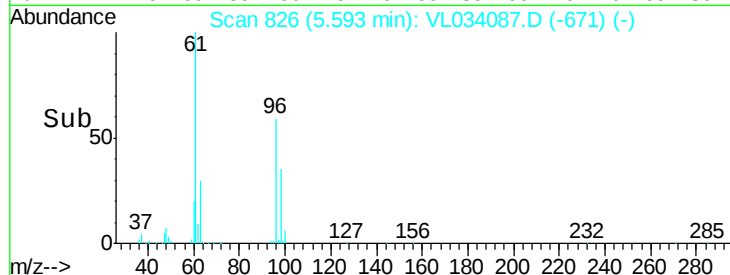
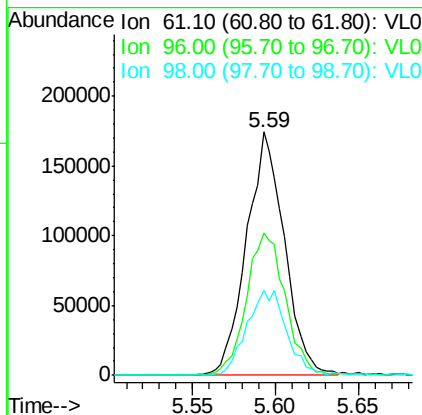
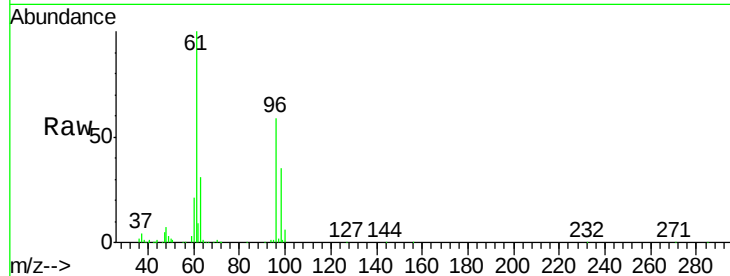
cis-1,2-Dichloroethene
 Concen: 2.279 ppbv
 RT: 5.59 min Scan# 826
 Delta R.T. -0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
61	100		
96	58.5	49.3	73.9
98	34.8	32.4	48.6

Manual Integrations
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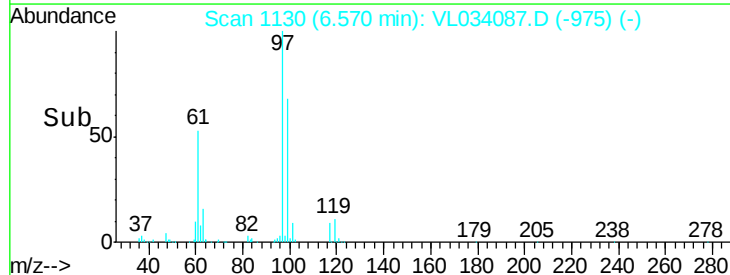
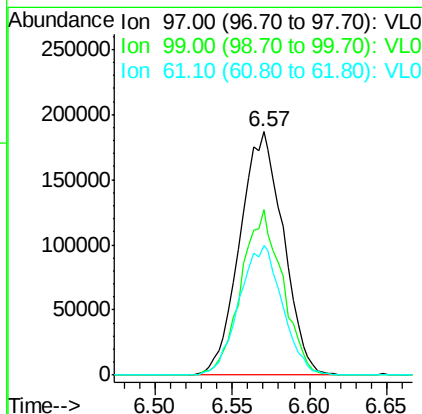
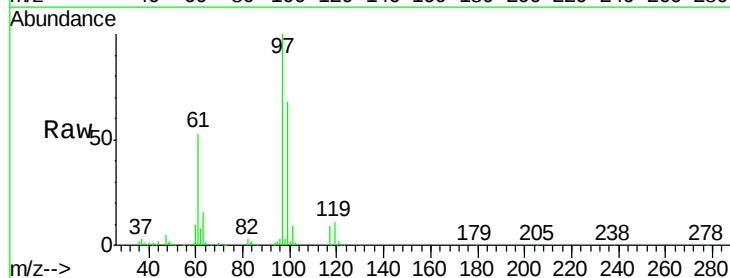
MMDadoda
 8/8/2019 12:41:10 PM

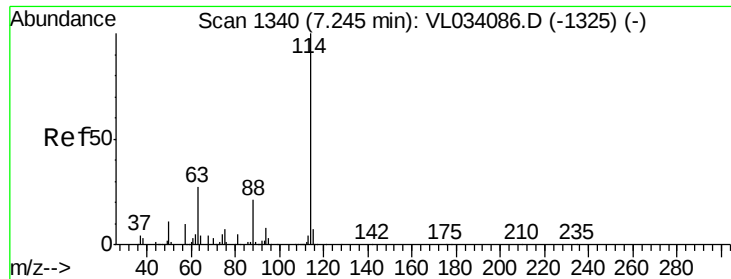


#32

1,1,1-Trichloroethane
 Concen: 1.605 ppbv
 RT: 6.57 min Scan# 1130
 Delta R.T. -0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	52.2	78.4
61	52.8	42.0	63.0





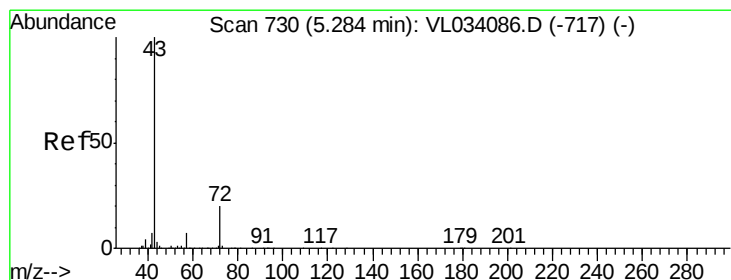
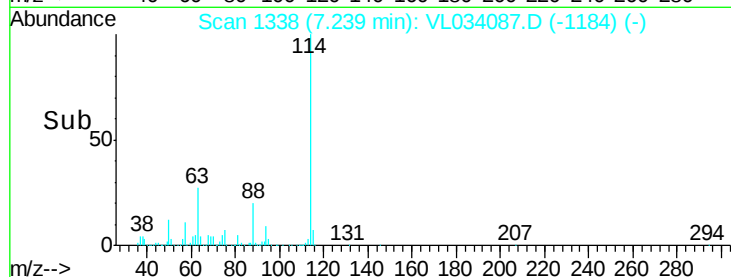
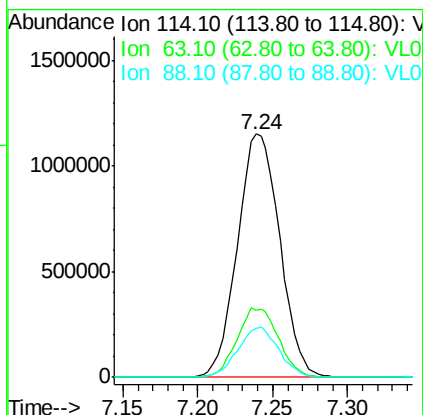
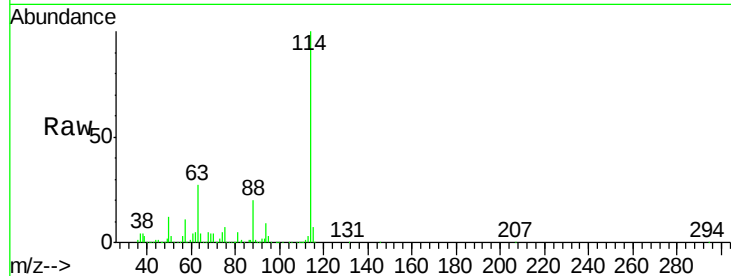
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.1	22.5	33.7
88	20.0	15.7	23.5

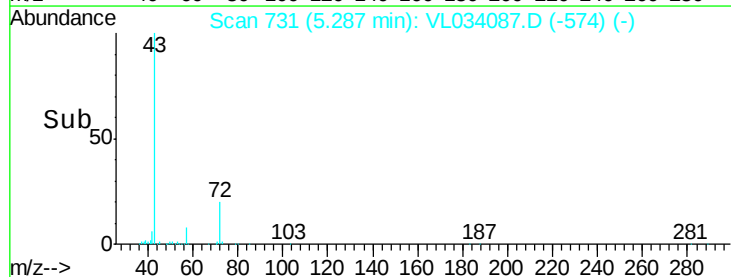
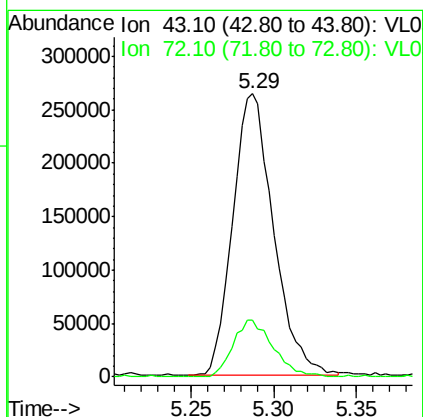
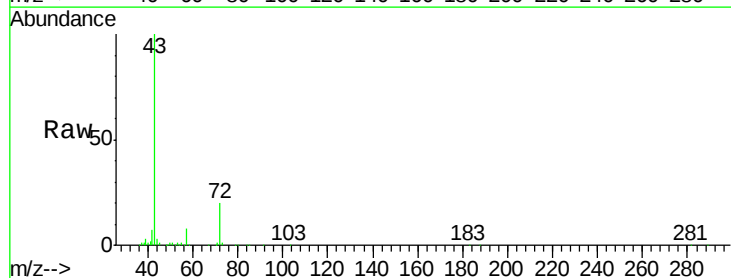
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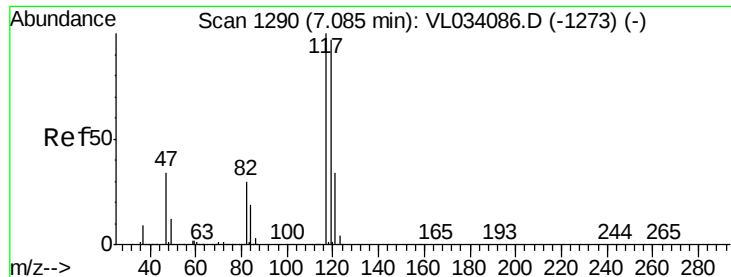
MMDadoda
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#34
 2-Butanone
 Concen: 3.475 ppbv
 RT: 5.29 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.0	16.0	24.0





#35

Carbon Tetrachloride

Concen: 1.980 ppbv

RT: 7.08 min Scan# 1290

Delta R.T. 0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

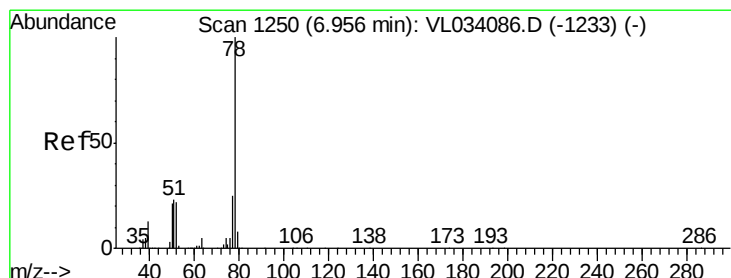
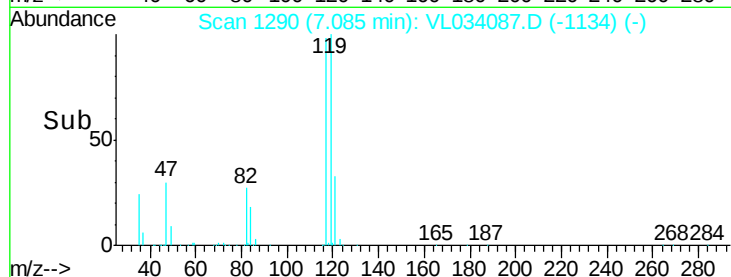
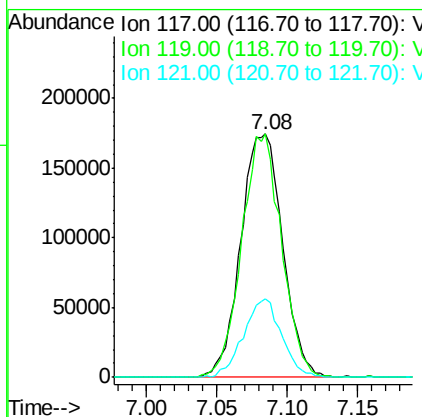
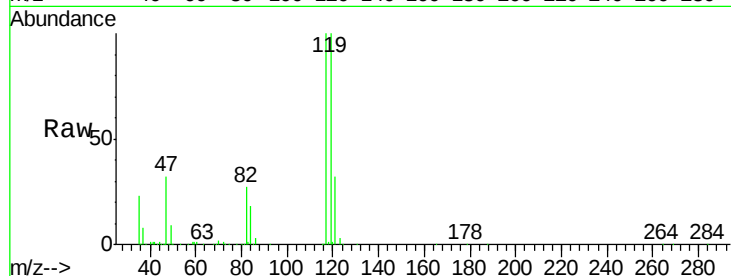
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	362513
Ion Ratio	Lower	Upper	
117	100		
119	100.1	77.8	116.6
121	32.5	27.4	41.2

Manual Integrations
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#36

Benzene

Concen: 2.548 ppbv

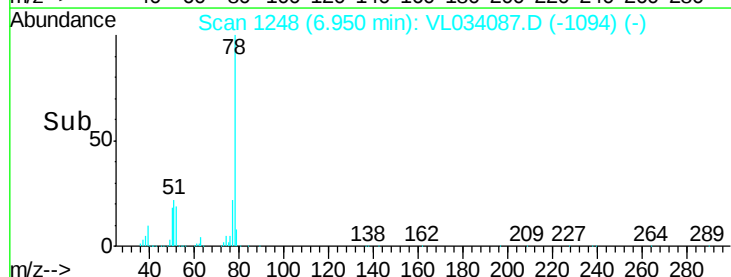
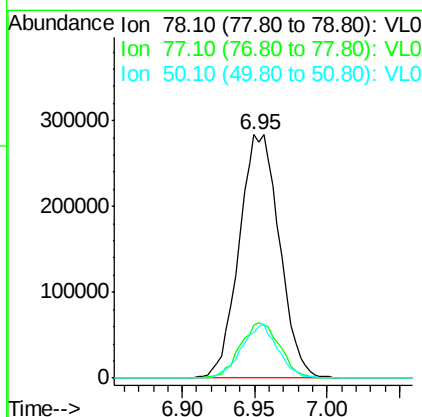
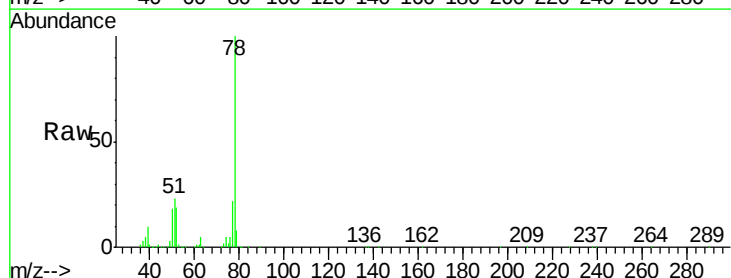
RT: 6.95 min Scan# 1248

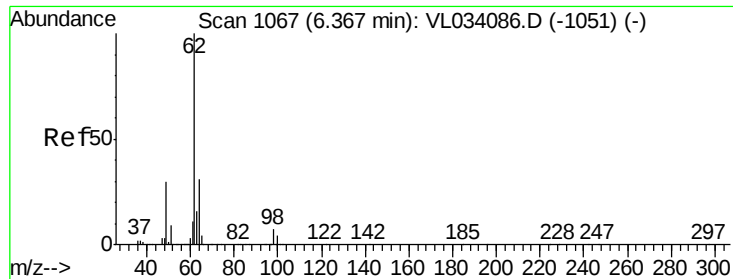
Delta R.T. -0.01 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Tgt Ion:	78	Resp:	550391
Ion Ratio	Lower	Upper	
78	100		
77	21.7	19.9	29.9
50	18.2	16.7	25.1





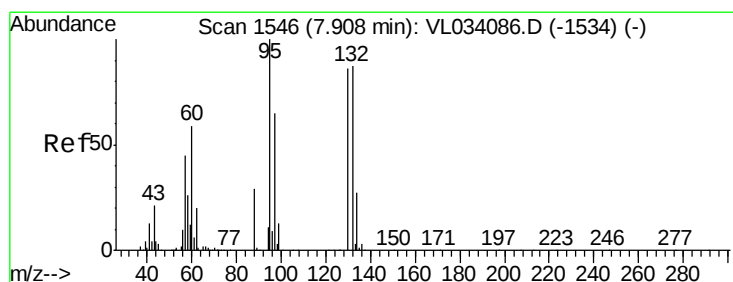
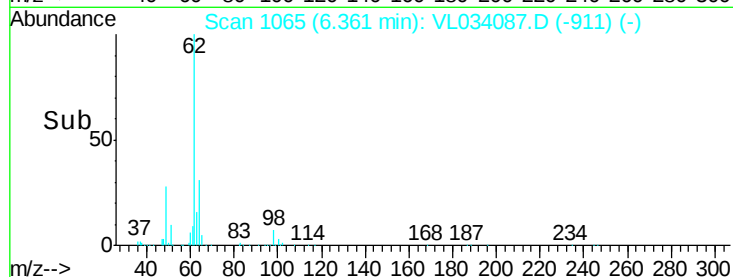
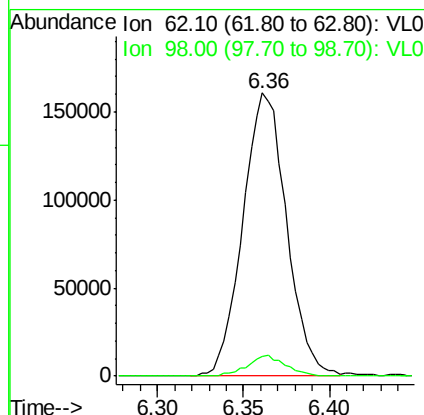
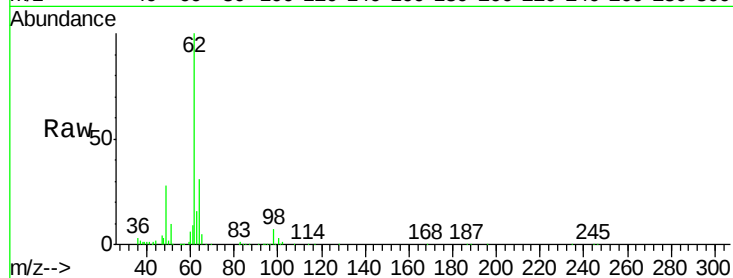
#37
 1,2-Dichloroethane
 Concen: 2.011 ppbv
 RT: 6.36 min Scan# 1065
 Delta R.T. -0.01 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
62	100	283340		
98	6.7	4.9	7.3	

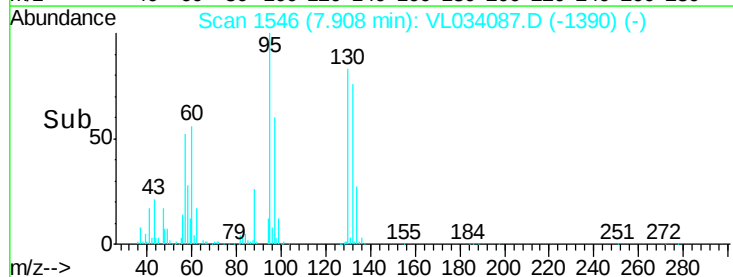
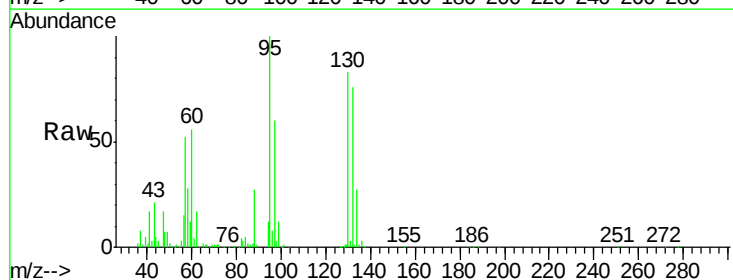
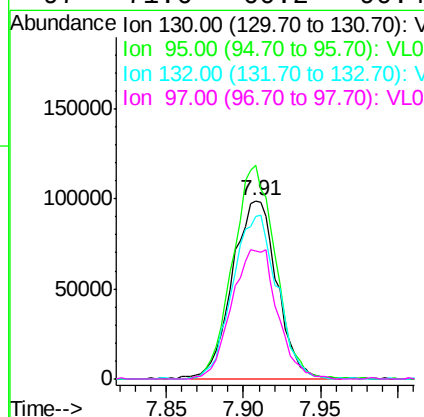
Manual Integrations
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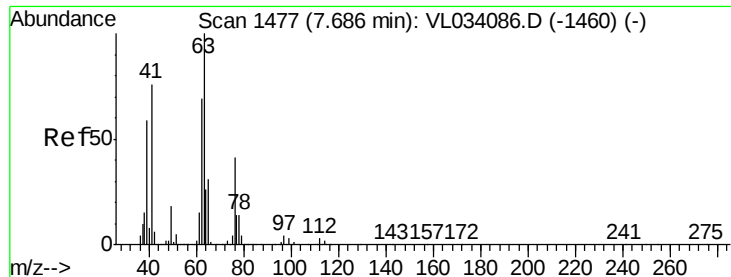
MMDadoda
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#38
 Trichloroethene
 Concen: 2.710 ppbv
 RT: 7.91 min Scan# 1546
 Delta R.T. 0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	197723		
95	119.0	92.1	138.1	
132	90.7	79.7	119.5	
97	71.6	60.2	90.4	





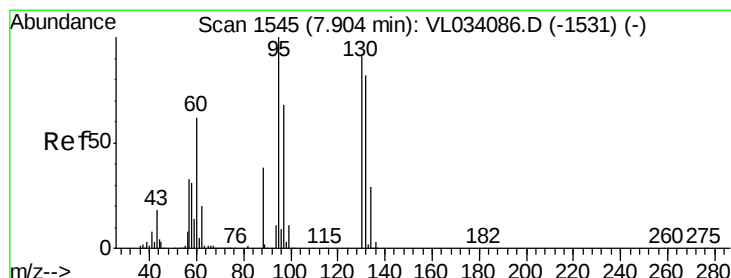
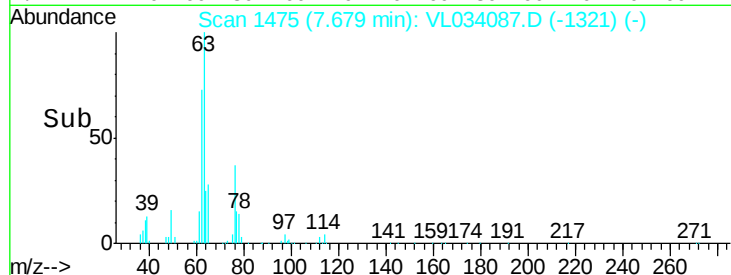
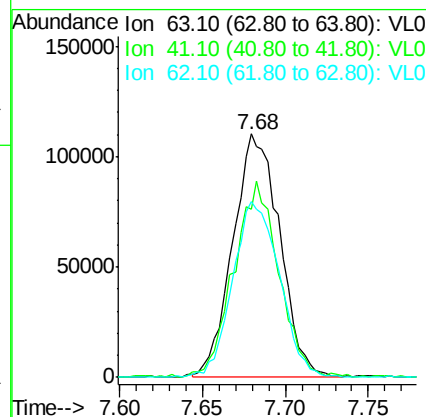
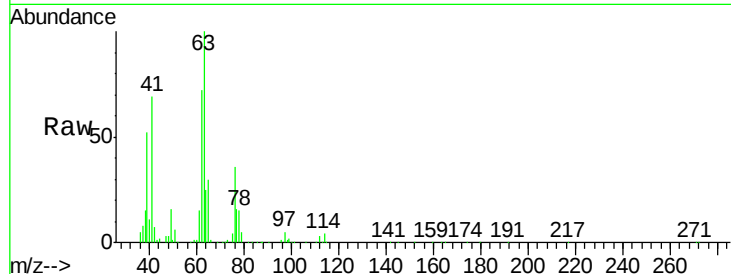
#39
 1,2-Dichloropropane
 Concen: 2.760 ppbv
 RT: 7.68 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC002

Tot Ion:	63	Resp:	215606
Ion Ratio	Lower	Upper	
63	100		
41	68.5	60.6	91.0
62	72.2	55.0	82.6

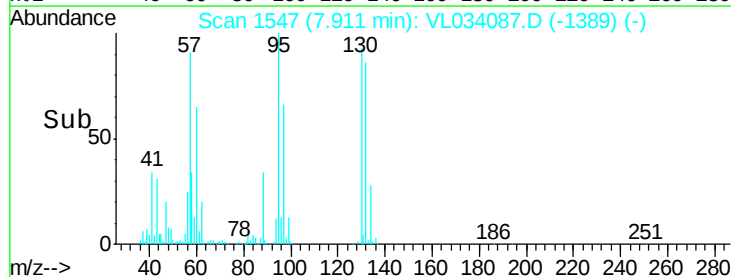
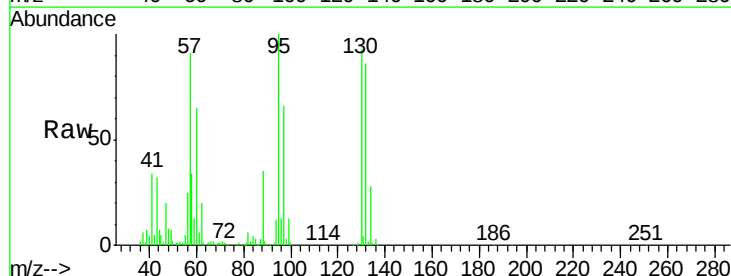
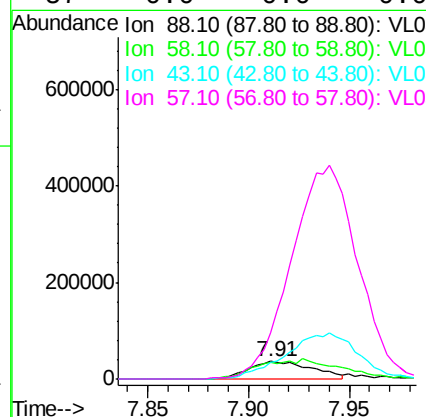
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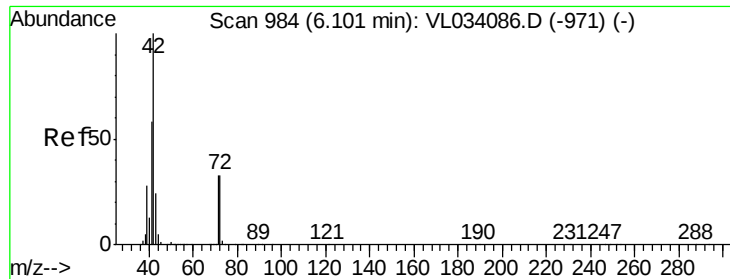
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#40
 1,4-Dioxane
 Concen: 2.646 ppbv
 RT: 7.91 min Scan# 1547
 Delta R.T. 0.01 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Tgt Ion:	88	Resp:	79222
Ion Ratio	Lower	Upper	
88	100		
58	0.0	113.0	169.4#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 3.970 ppbv

RT: 6.10 min Scan# 985

Delta R.T. 0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

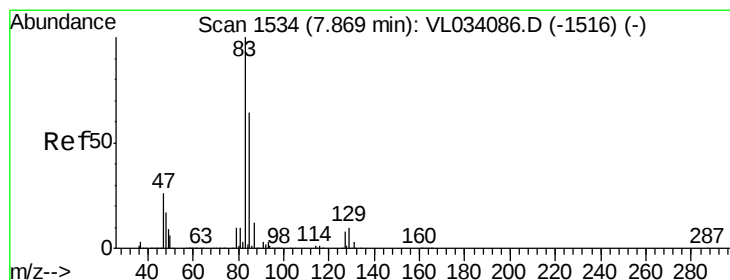
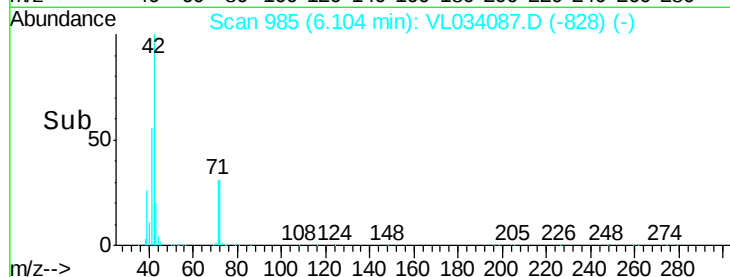
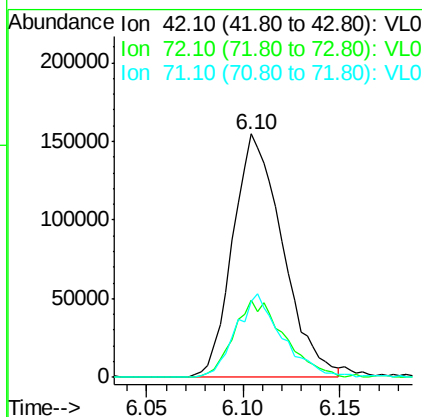
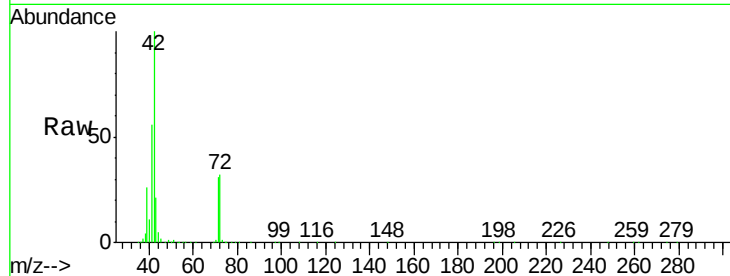
ClientSampleId :

VSTDIC002

Tot Ion:	42	Resp:	276183
Ion Ratio		Lower	Upper
42	100		
72	33.4	26.9	40.3
71	32.2	26.5	39.7

Manual Integrations
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#42

Bromodichloromethane

Concen: 2.389 ppbv

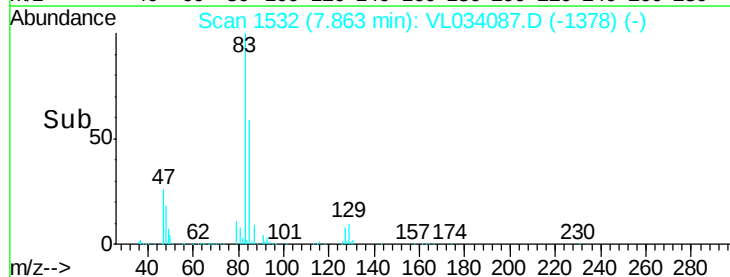
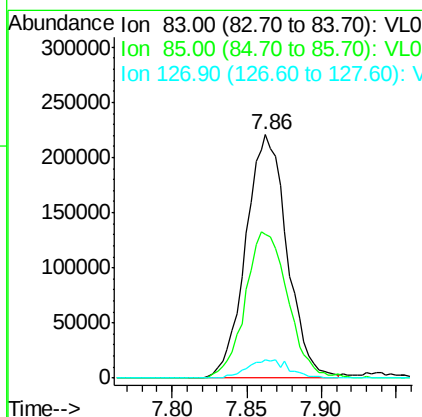
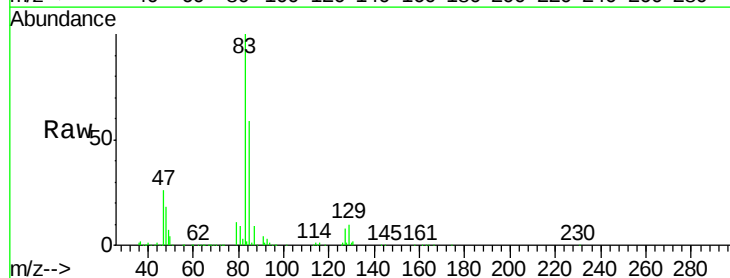
RT: 7.86 min Scan# 1532

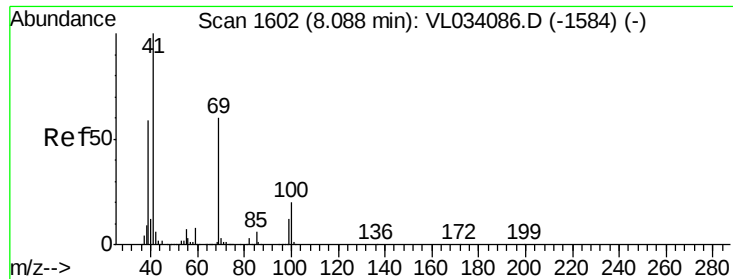
Delta R.T. -0.01 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Tgt Ion:	83	Resp:	424229
Ion Ratio		Lower	Upper
83	100		
85	59.0	50.9	76.3
127	7.7	6.1	9.1





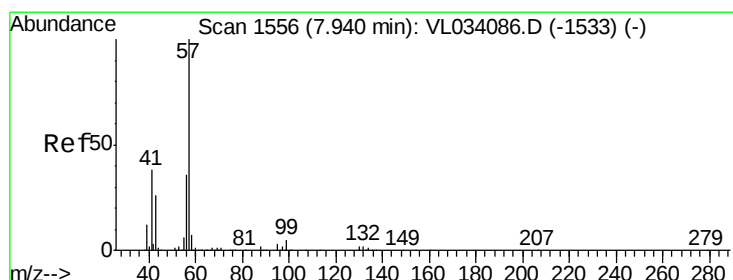
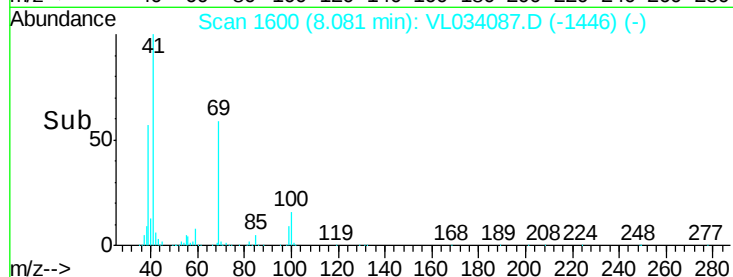
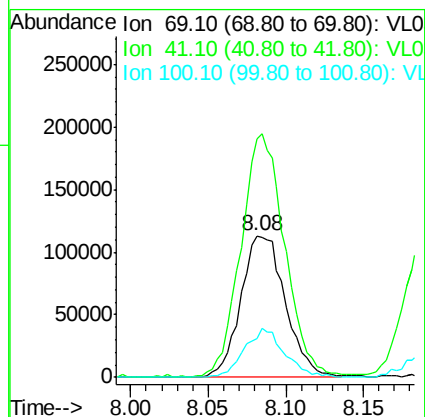
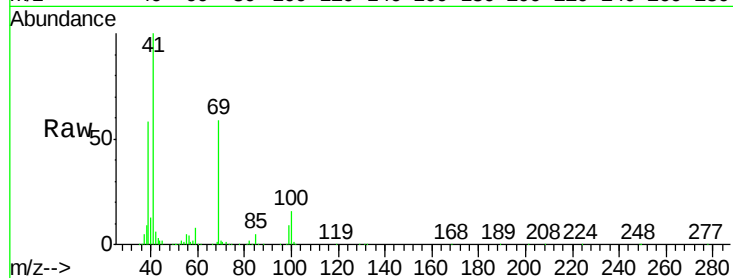
#43
Methvl Methacrylate
Concen: 3.035 ppbv m
RT: 8.08 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	169.8	132.9	199.3	
100	31.2	25.8	38.8	

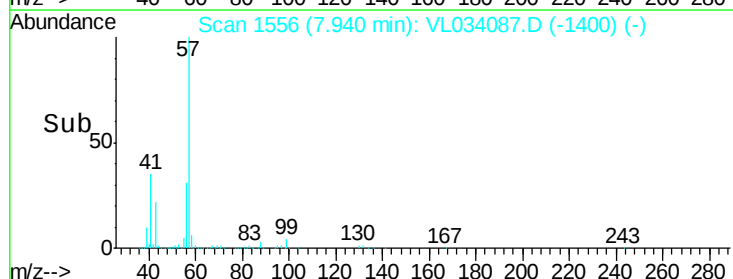
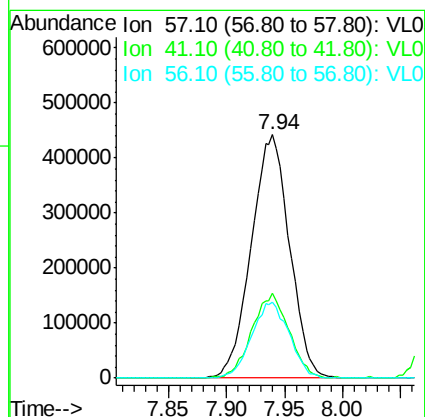
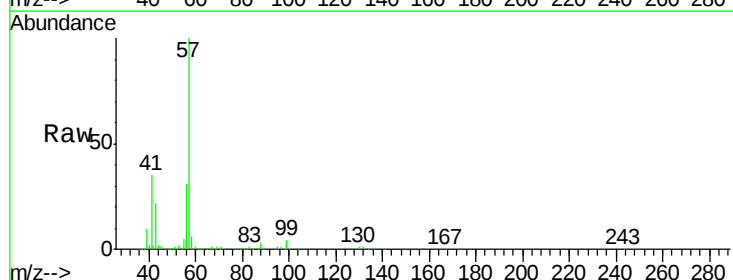
Manual Integrations
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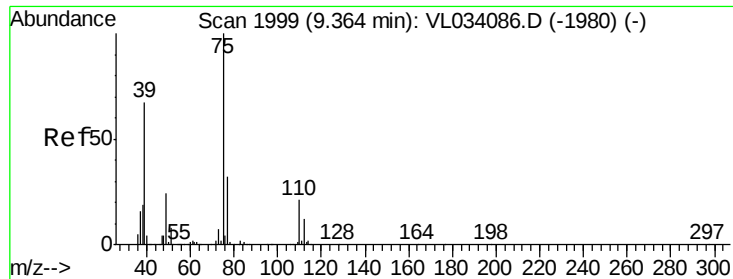
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 3.141 ppbv
RT: 7.94 min Scan# 1556
Delta R.T. 0.00 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	33.9	29.2	43.8	
56	30.9	26.7	40.1	





#45

t-1,3-Dichloropropene

Concen: 3.091 ppbv

RT: 9.36 min Scan# 1997

Delta R.T. -0.01 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 75 Resp: 284594

Ion Ratio Lower Upper

75 100

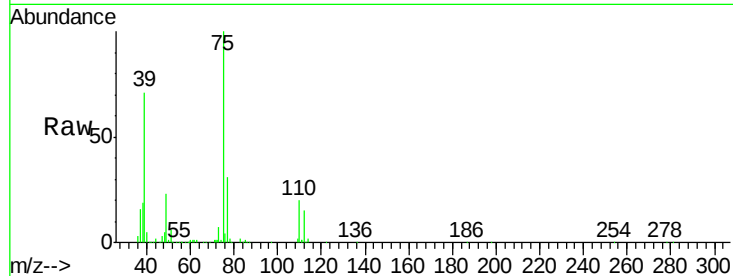
77 30.8 25.7 38.5

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.36

150000

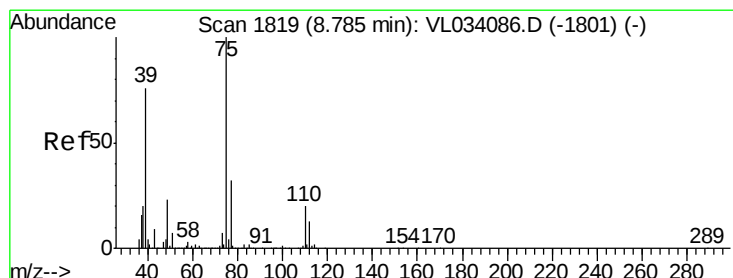
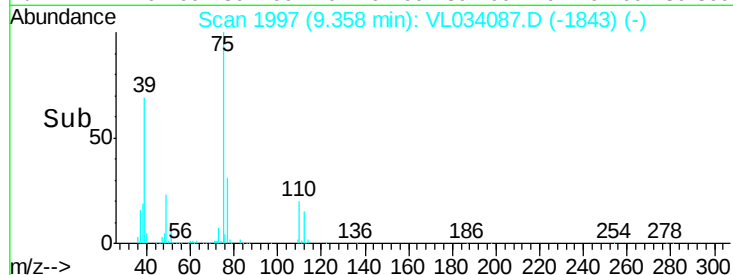
100000

50000

0

9.30 9.35 9.40

Time-->



#46

cis-1,3-Dichloropropene

Concen: 3.080 ppbv

RT: 8.78 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

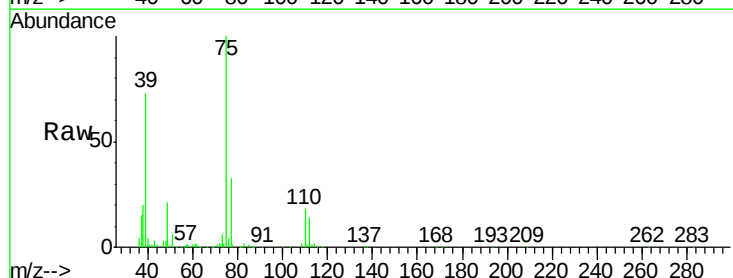
Tgt Ion: 75 Resp: 329169

Ion Ratio Lower Upper

75 100

39 73.0 61.0 91.4

77 32.4 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.78

200000

150000

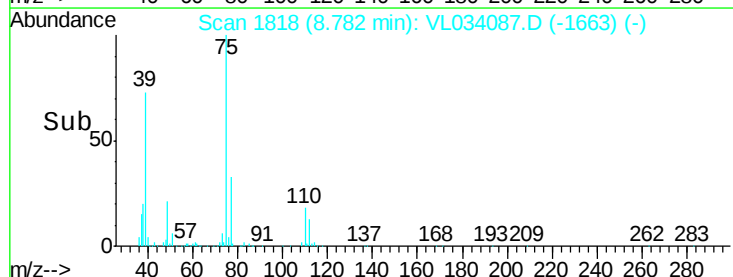
100000

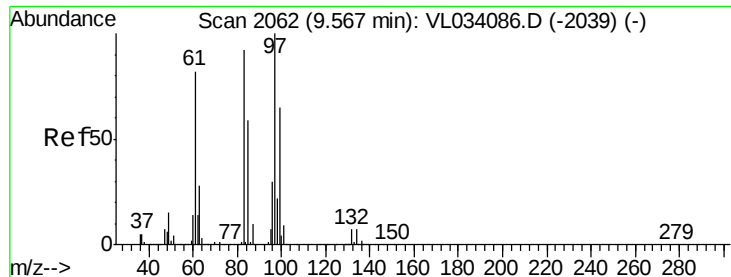
50000

0

8.70 8.75 8.80 8.85

Time-->





#47

1,1,2-Trichloroethane

Concen: 2.538 ppbv

RT: 9.56 min Scan# 2059

Delta R.T. -0.01 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

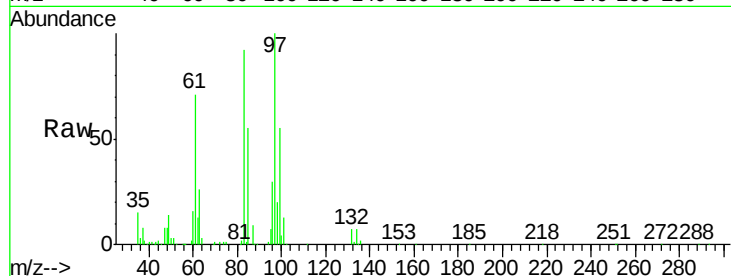
ClientSampleId :

VSTDIC002

Tot Ion:	97	Resp:	213471
Ion	Ratio	Lower	Upper
97	100		
83	92.2	74.0	111.0
85	54.4	47.1	70.7
99	54.5	51.9	77.9

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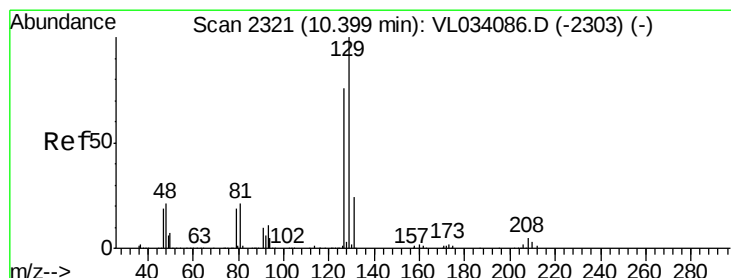
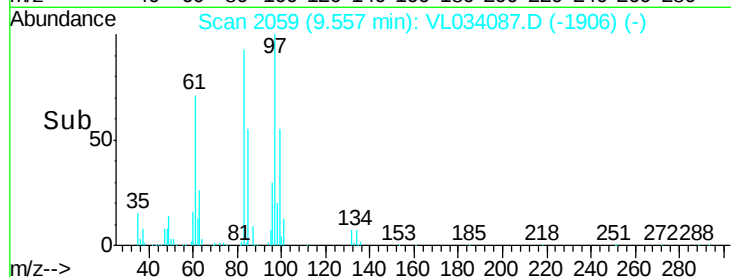
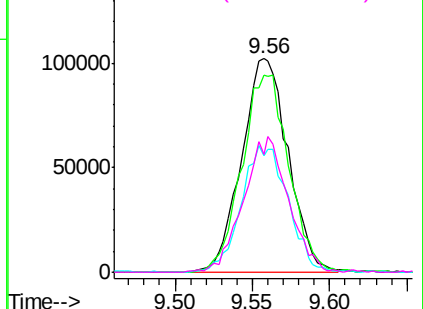
Abundance

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: 2.446 ppbv

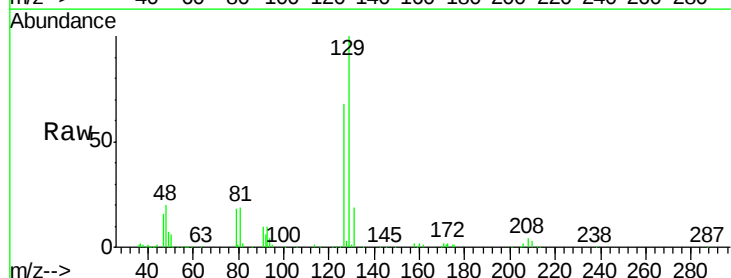
RT: 10.40 min Scan# 2320

Delta R.T. -0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

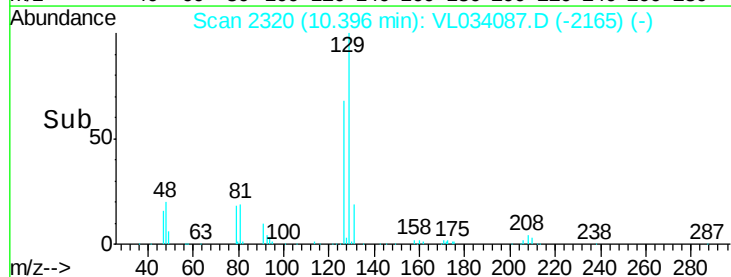
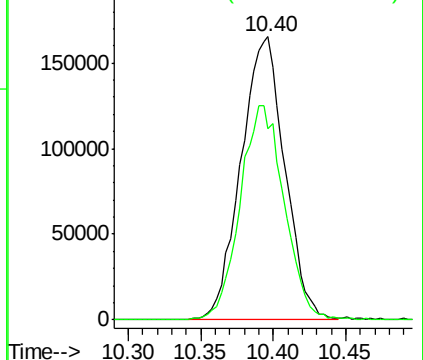
Tgt Ion:	129	Resp:	348109
Ion	Ratio	Lower	Upper
129	100		
127	76.2	39.4	118.2

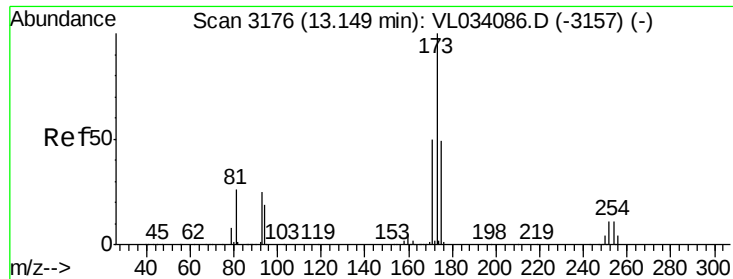


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





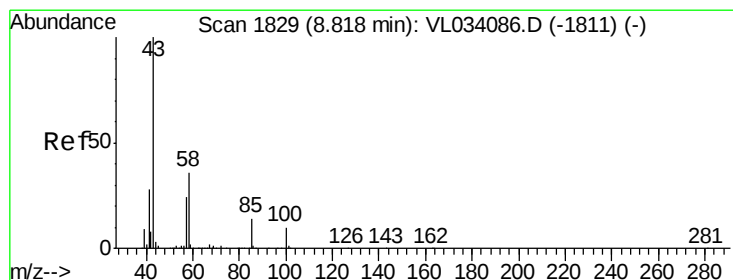
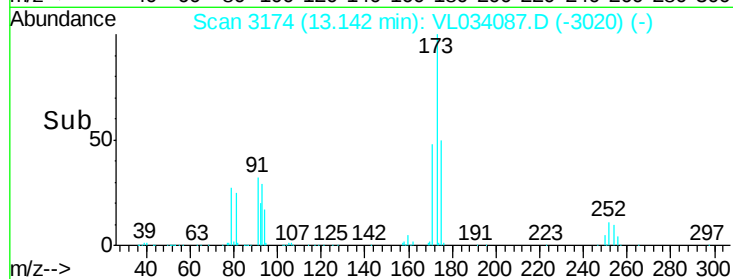
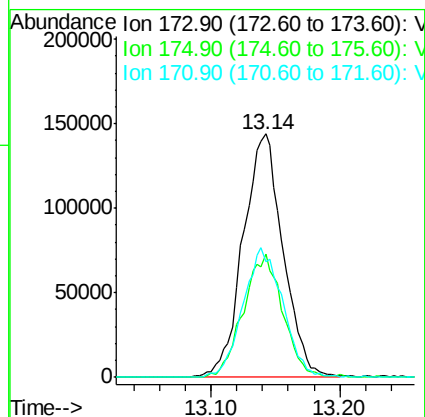
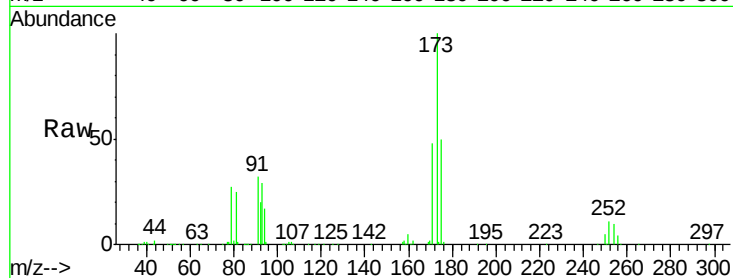
#49
Bromoform
Concen: 2.519 ppbv
RT: 13.14 min Scan# 3174
Delta R.T. -0.01 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
173	100	310638		
175	50.4	39.8	59.8	
171	53.4	42.7	64.1	

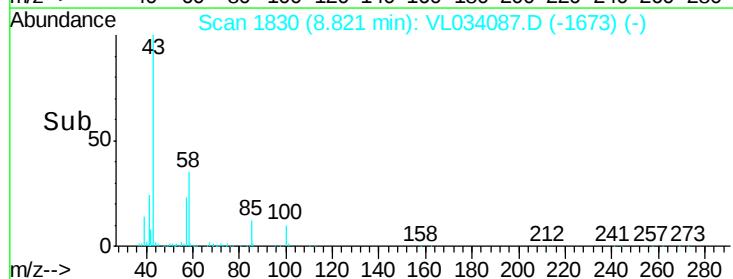
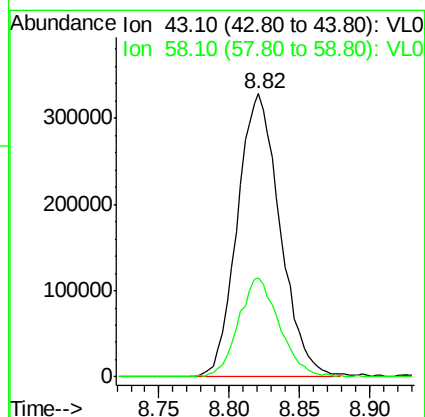
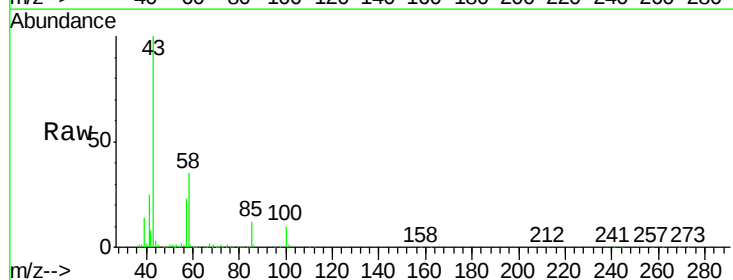
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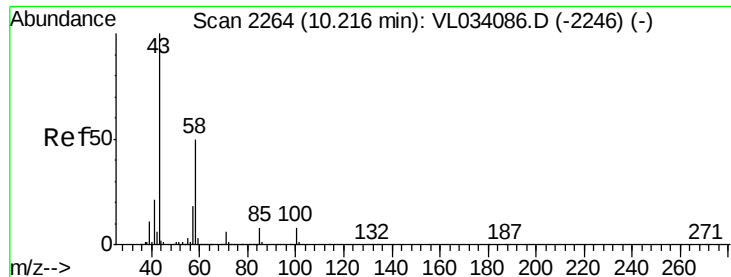
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 3.603 ppbv
RT: 8.82 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	694386		
58	33.8	28.2	42.2	





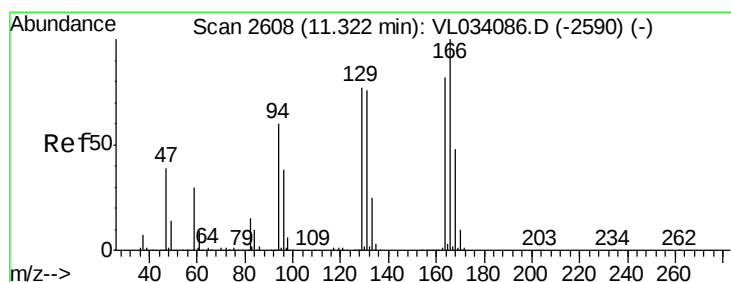
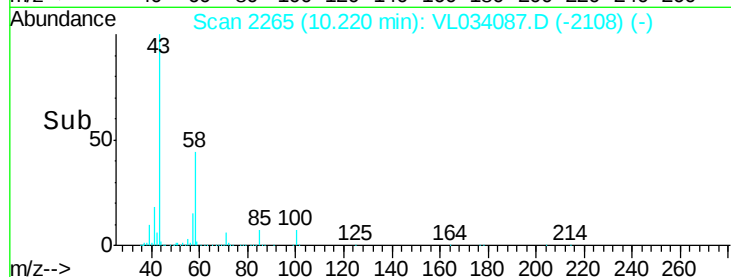
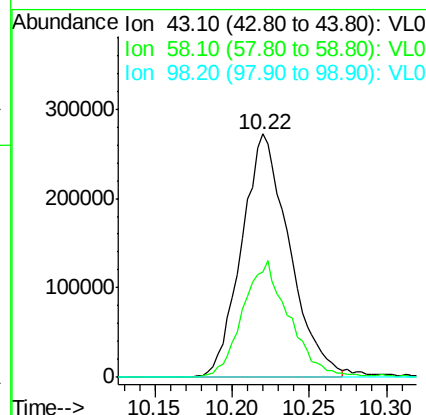
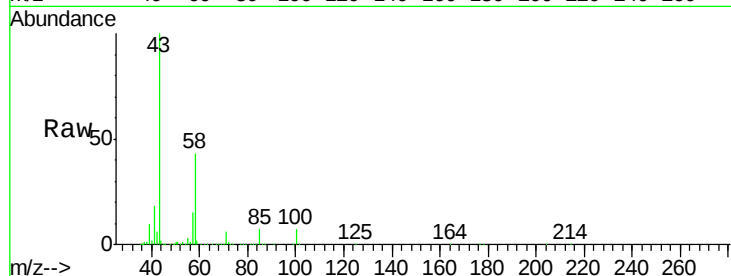
#51
2-Hexanone
Concen: 3.924 ppbv
RT: 10.22 min Scan# 2265
Delta R.T. 0.00 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.2	38.5	57.7
98	0.1	0.0	0.0#

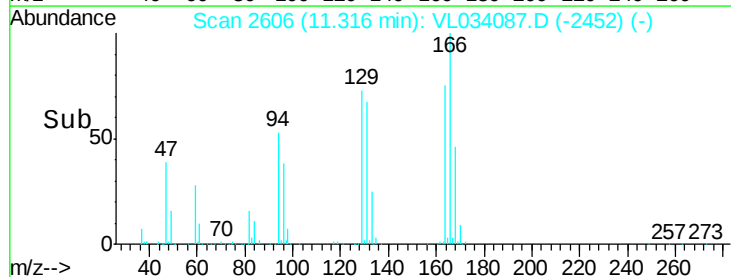
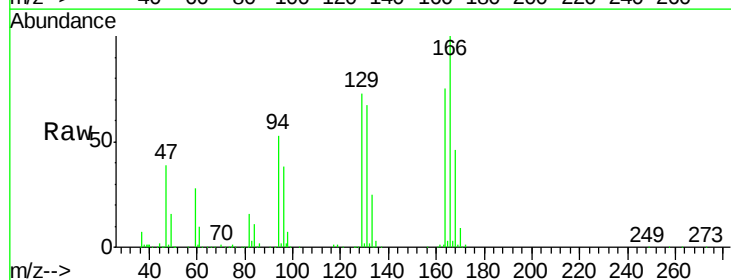
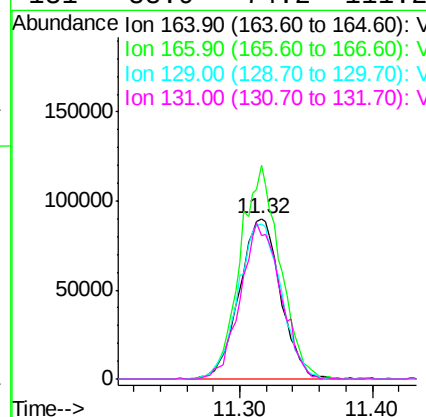
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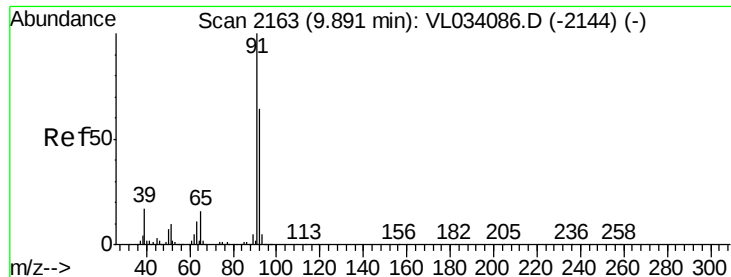
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#52
Tetrachloroethene
Concen: 3.086 ppbv
RT: 11.32 min Scan# 2606
Delta R.T. -0.01 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Tgt Ion	Ratio	Lower	Upper
164	100		
166	133.1	96.8	145.2
129	96.5	74.9	112.3
131	88.9	74.2	111.2





#53

Toluene

Concen: 3.039 ppbv

RT: 9.89 min Scan# 2163

Delta R.T. 0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 652308

Ion Ratio Lower Upper

91 100

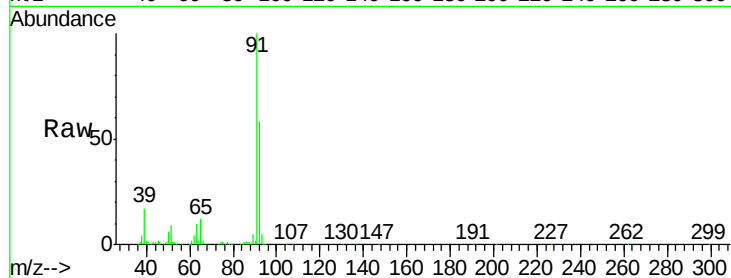
92 60.3 50.3 75.5

Manual Integrations

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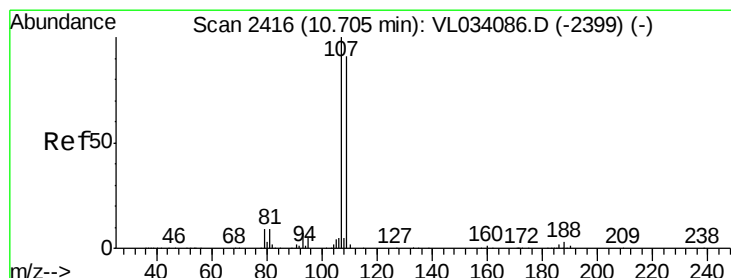
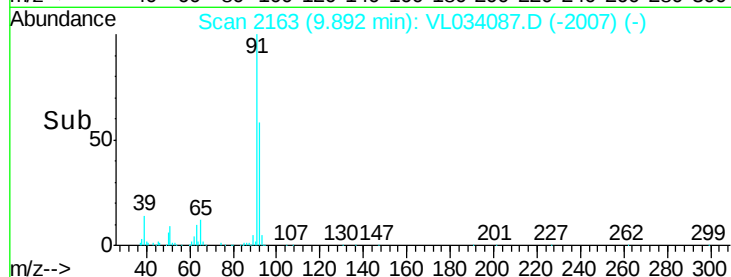
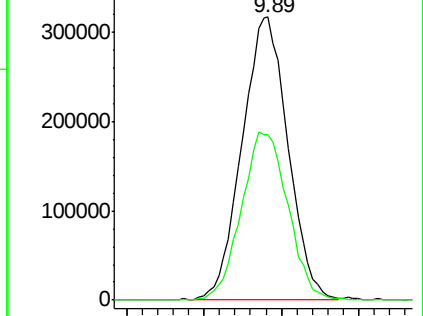
MMDadoda

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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: 2.545 ppbv

RT: 10.70 min Scan# 2414

Delta R.T. -0.01 min

Lab File: VL034087.D

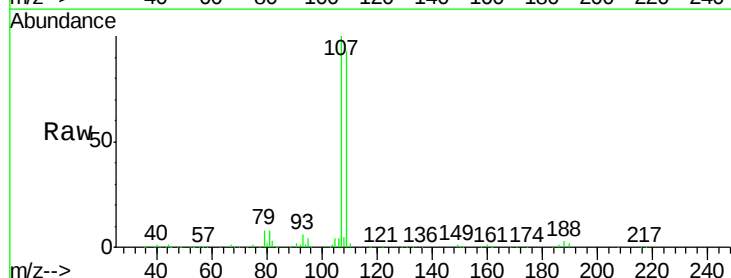
Acq: 5 Aug 2019 13:24

Tgt Ion: 107 Resp: 317693

Ion Ratio Lower Upper

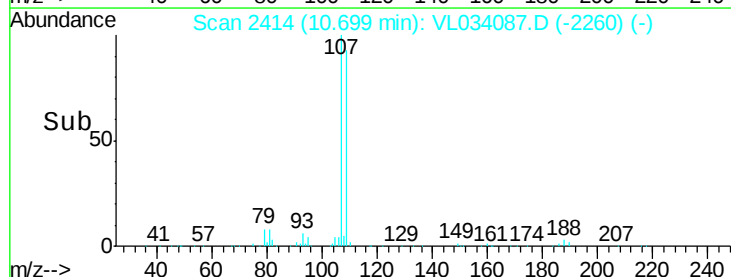
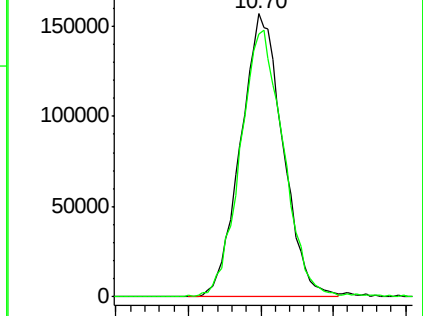
107 100

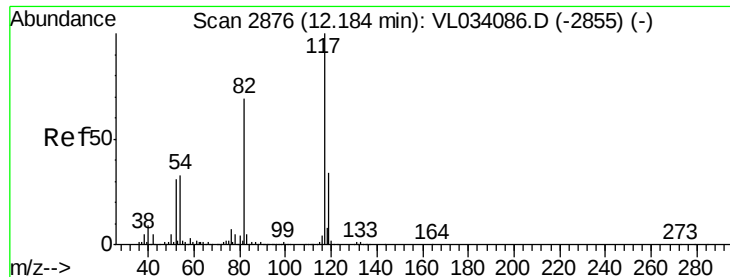
109 92.1 72.9 109.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





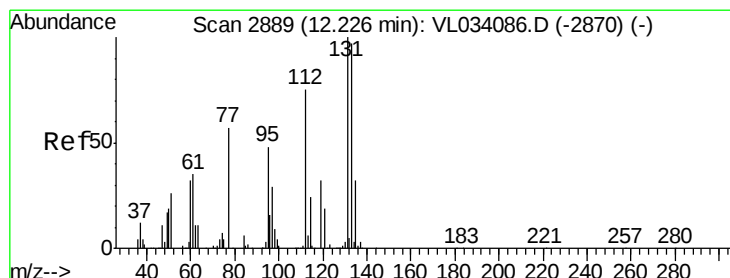
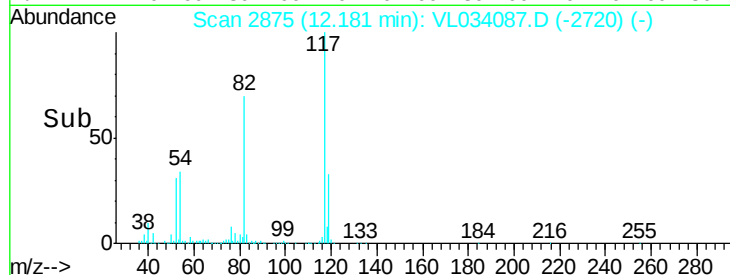
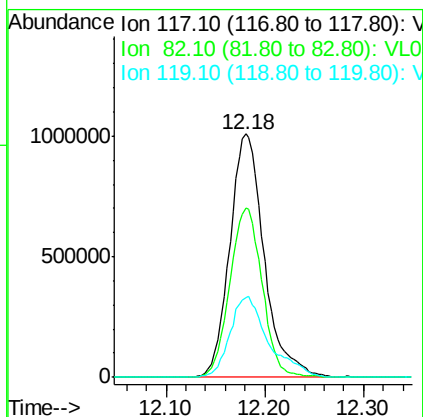
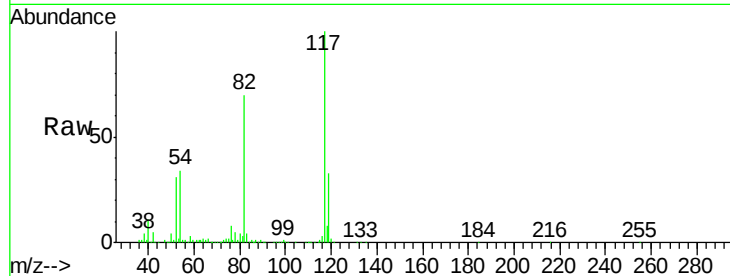
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.18 min Scan# 2875
Delta R.T. -0.00 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.5	52.2	78.4
119	37.3	44.8	67.2#

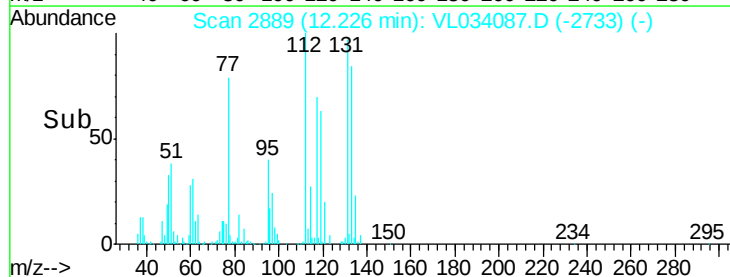
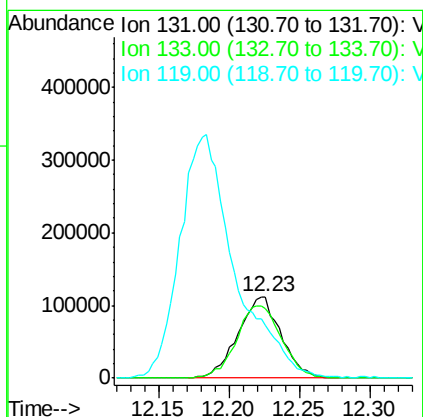
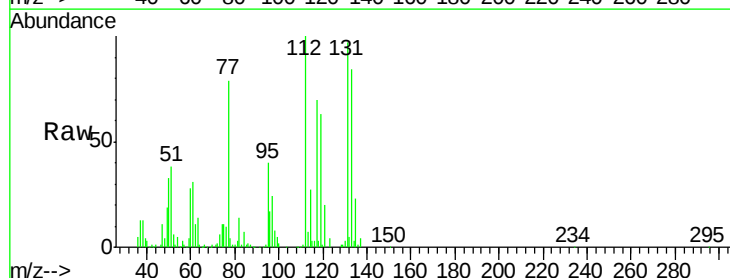
Manual Integrations
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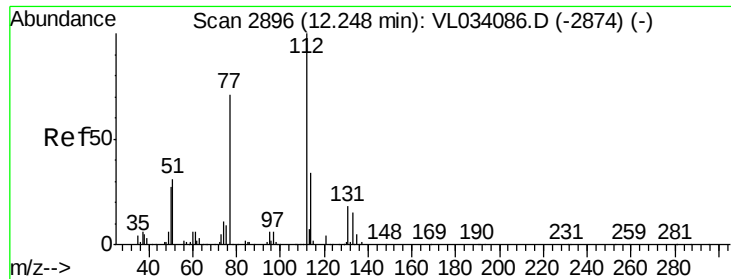
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#56
1,1,1,2-Tetrachloroethane
Concen: 2.199 ppbv
RT: 12.23 min Scan# 2889
Delta R.T. 0.00 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.9	76.5	114.7
119	383.8	114.7	172.1#





#57

Chlorobenzene

Concen: 2.351 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

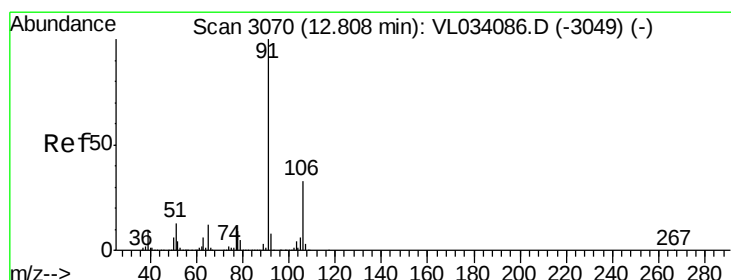
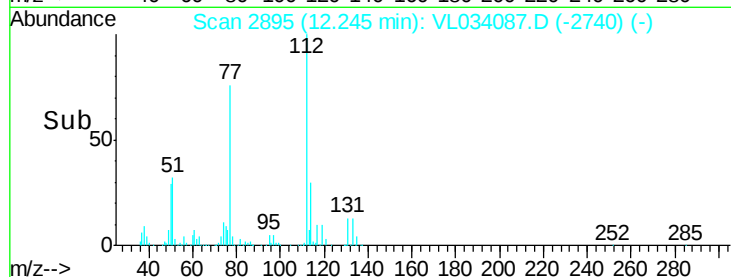
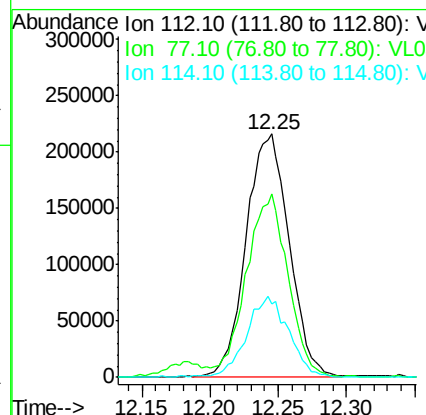
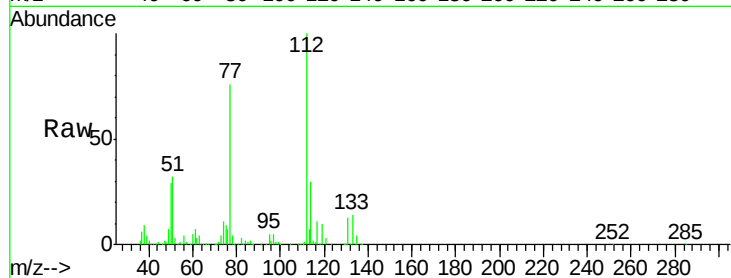
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	470917
Ion Ratio	Lower	Upper	
112	100		
77	75.4	57.8	86.6
114	30.2	30.3	37.1#

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#58

Ethyl Benzene

Concen: 2.707 ppbv

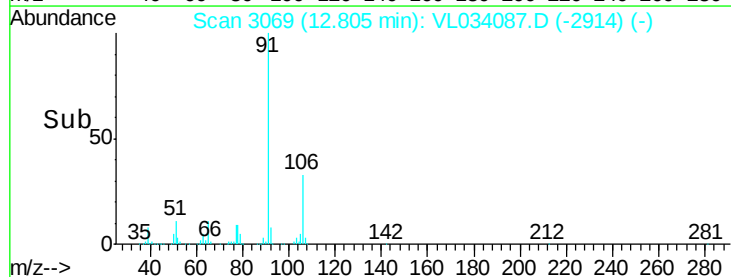
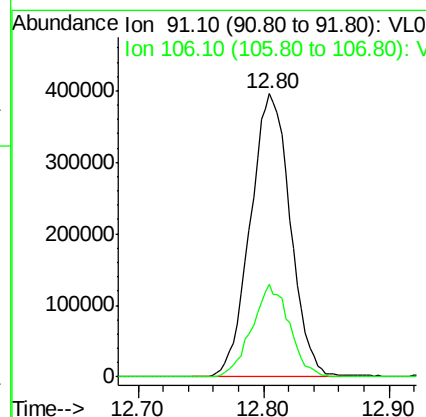
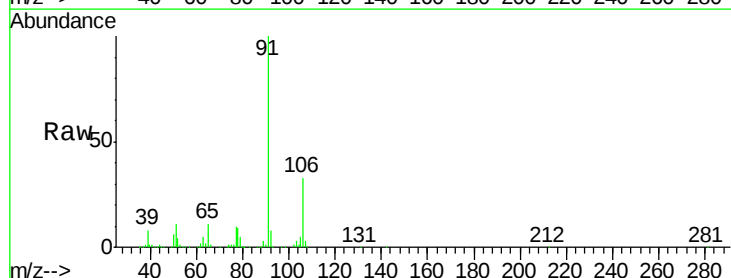
RT: 12.80 min Scan# 3069

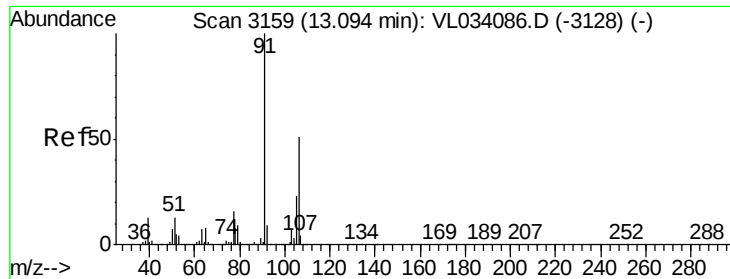
Delta R.T. -0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Tgt Ion:	91	Resp:	876357
Ion Ratio	Lower	Upper	
91	100		
106	32.7	26.0	39.0





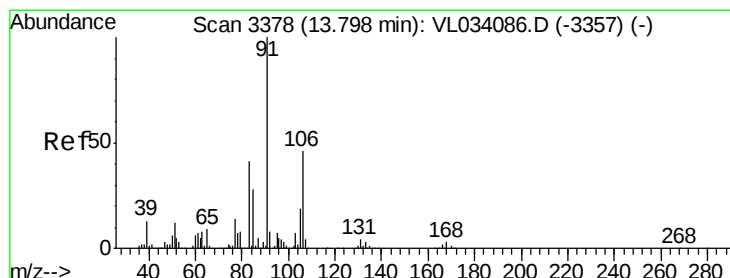
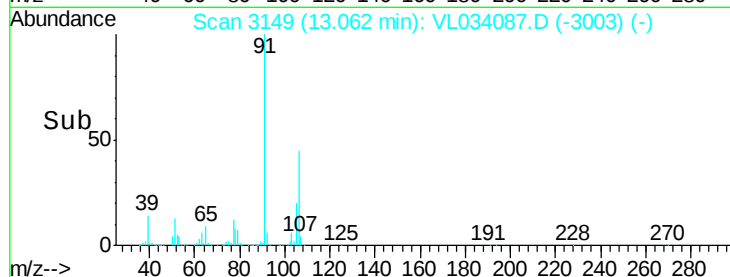
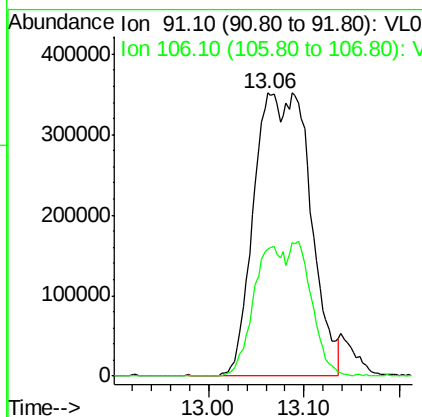
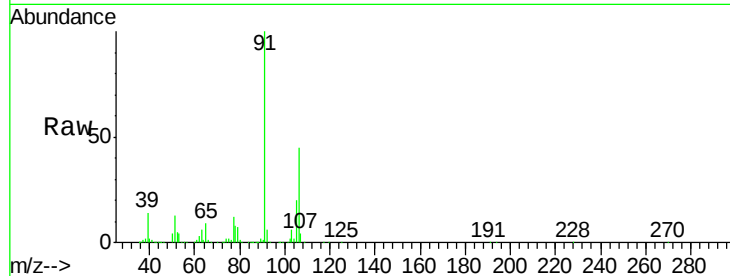
#59
m/p-Xylene
Concen: 4.979 ppbv m
RT: 13.06 min Scan# 3149
Delta R.T. -0.03 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1439980
Ion Ratio Lower Upper
91 100
106 45.6 38.7 58.1

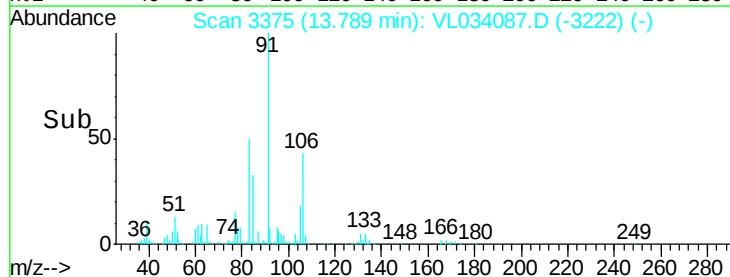
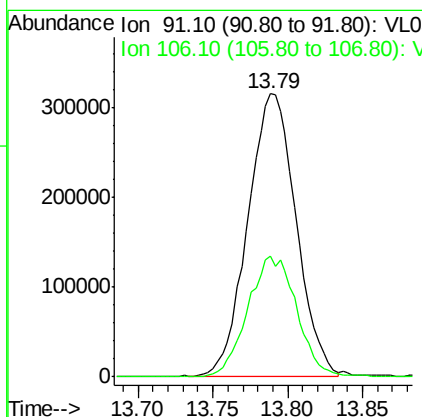
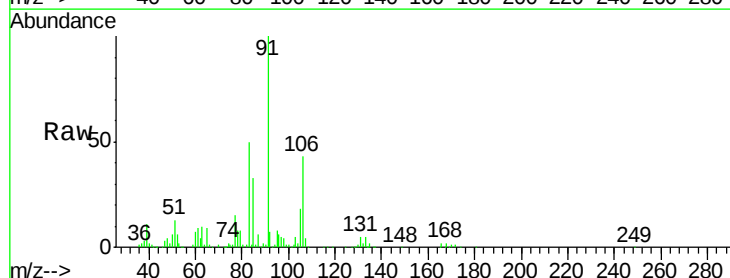
Manual Integrations
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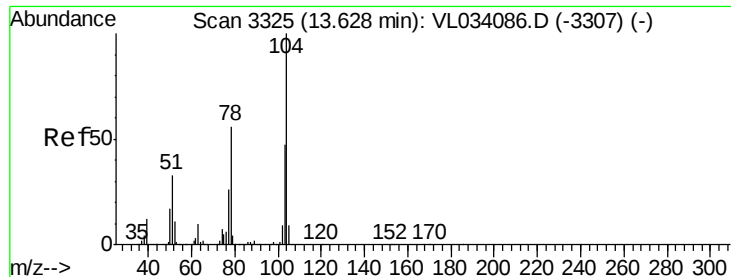
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#60
o-Xylene
Concen: 2.438 ppbv
RT: 13.79 min Scan# 3375
Delta R.T. -0.01 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Tgt Ion: 91 Resp: 708426
Ion Ratio Lower Upper
91 100
106 43.6 22.6 67.7





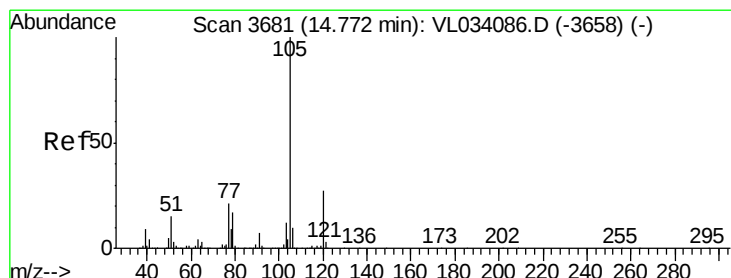
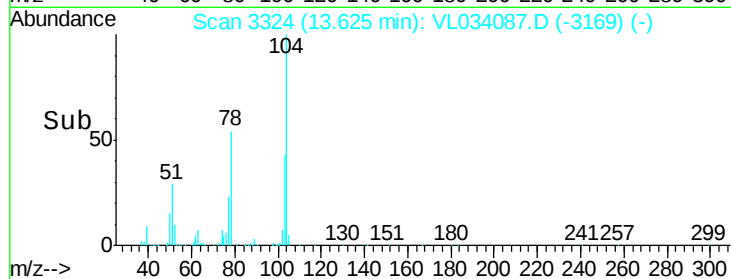
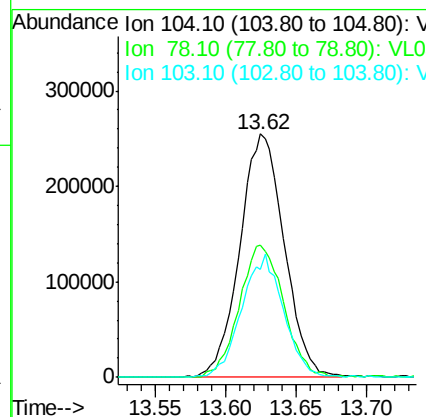
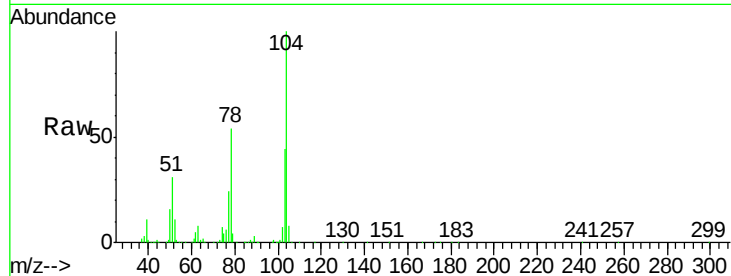
#61
Stvrene
Concen: 2.940 ppbv
RT: 13.62 min Scan# 3324
Delta R.T. -0.00 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
104	100	559156		
78	54.7		44.2	66.4
103	47.6		38.3	57.5

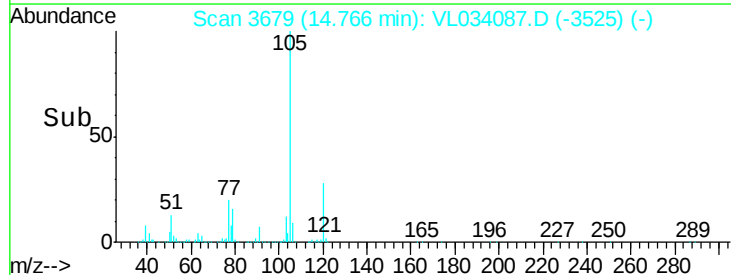
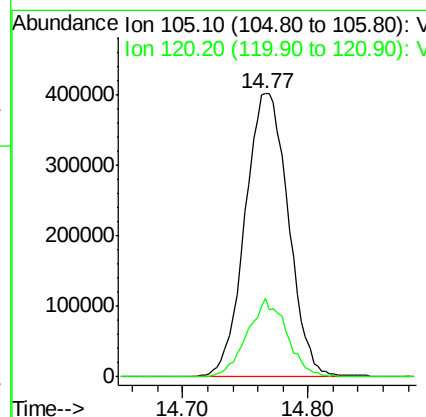
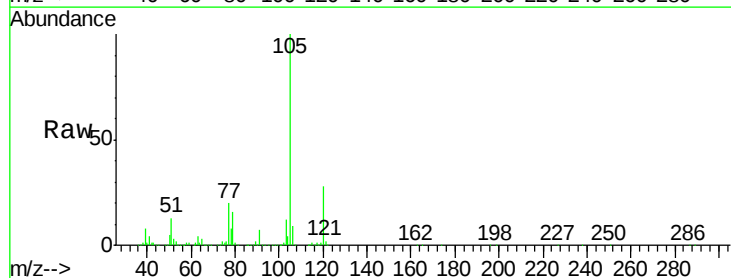
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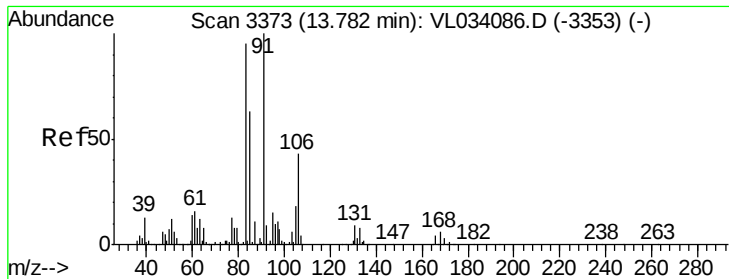
MMDadoda
8/8/2019 12:41:10 PM



#62
Isopropylbenzene
Concen: 2.528 ppbv
RT: 14.77 min Scan# 3679
Delta R.T. -0.01 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	964403		
120	25.1		21.4	32.2





#63

1,1,2,2-Tetrachloroethane

Concen: 2.202 ppbv

RT: 13.78 min Scan# 3371

Delta R.T. -0.01 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 83 Resp: 503704
Ion Ratio Lower Upper

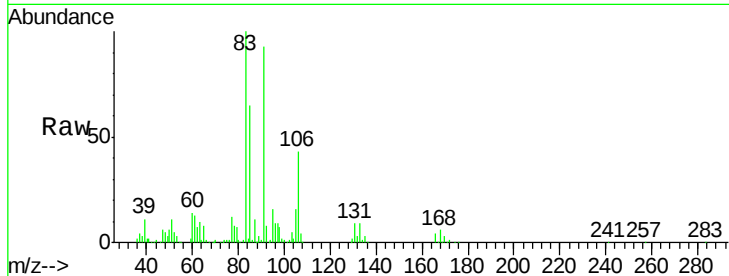
83 100

131 8.7 4.6 13.8

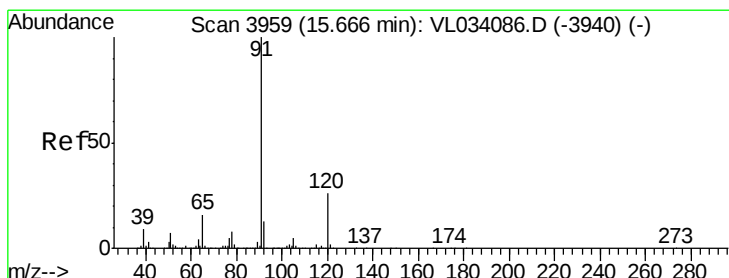
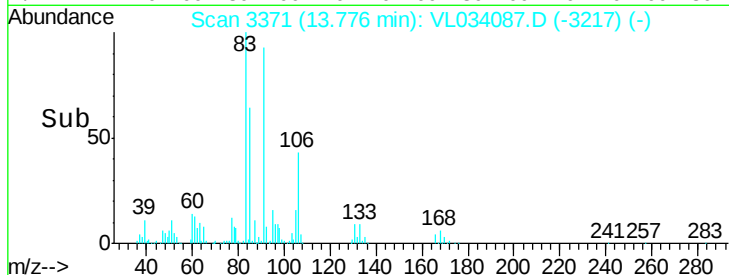
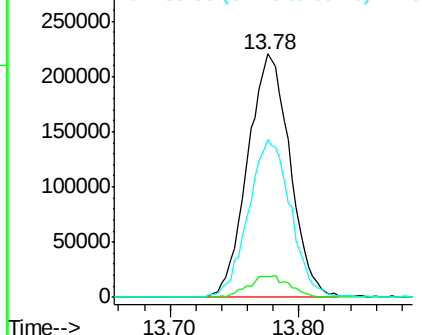
85 65.2 32.6 97.8

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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 2.548 ppbv m

RT: 15.66 min Scan# 3958

Delta R.T. -0.00 min

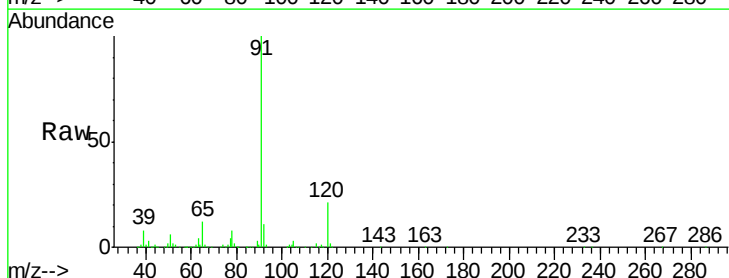
Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

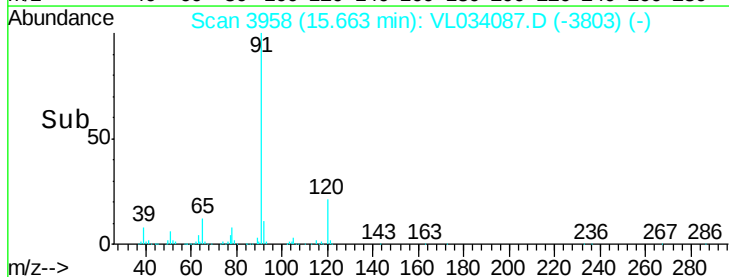
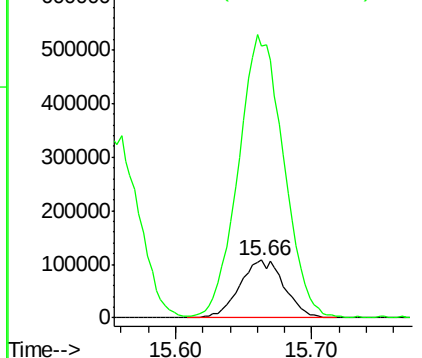
Tgt Ion:120 Resp: 245845
Ion Ratio Lower Upper

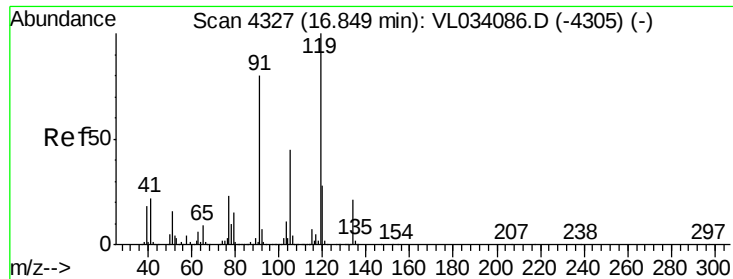
120 100

91 499.7 359.7 539.5



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 2.545 ppbv

RT: 16.85 min Scan# 4327

Delta R.T. 0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

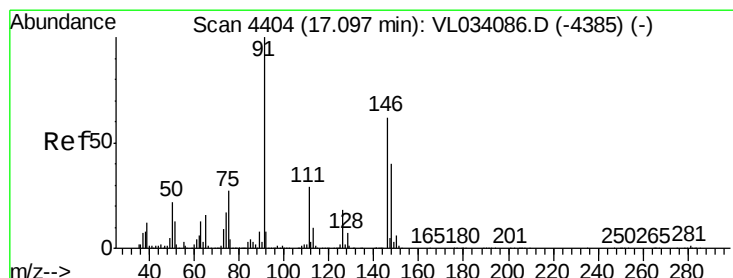
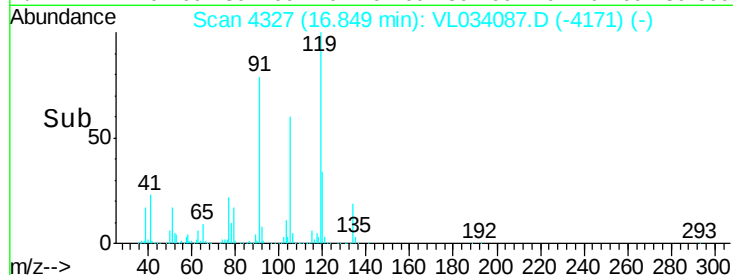
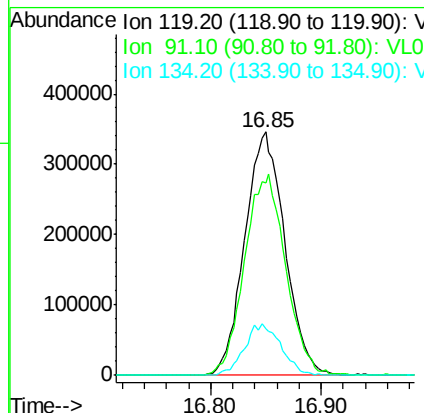
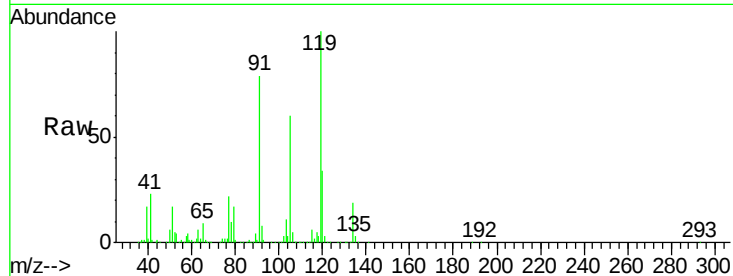
ClientSampleId :

VSTDIC002

Tot Ion:	119	Resp:	871554
Ion Ratio	Lower	Upper	
119	100		
91	85.1	67.6	101.4
134	19.3	16.0	24.0

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#66

Benzyl Chloride

Concen: 2.921 ppbv

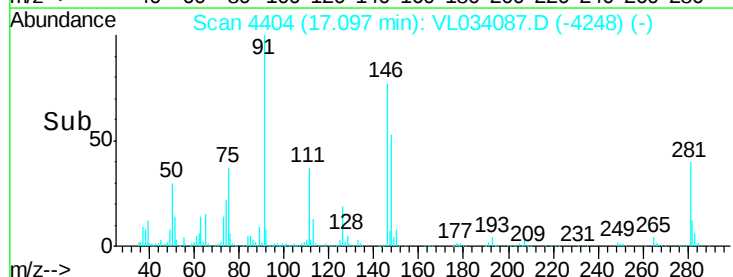
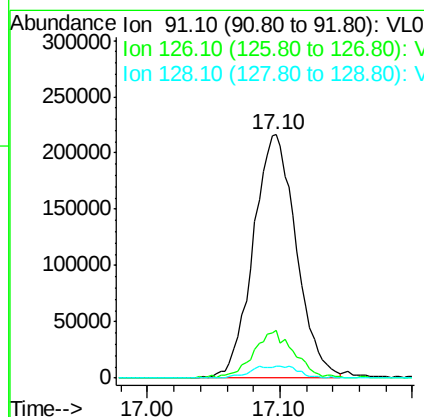
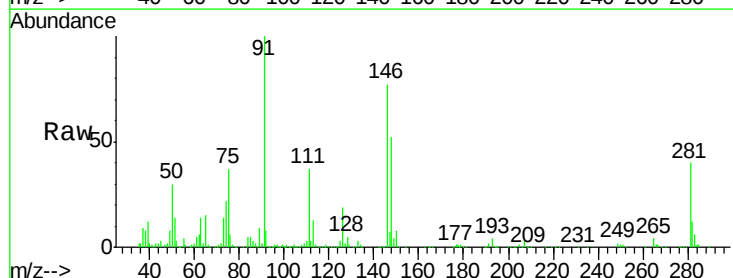
RT: 17.10 min Scan# 4404

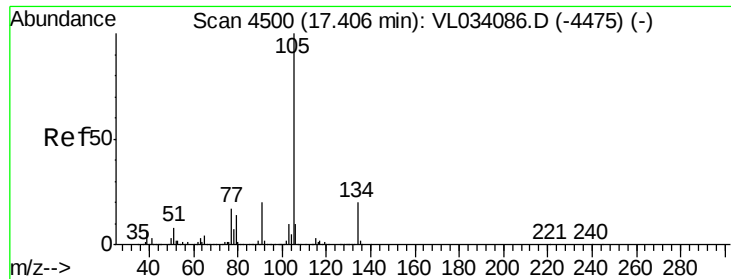
Delta R.T. 0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Tgt Ion:	91	Resp:	489174
Ion Ratio	Lower	Upper	
91	100		
126	18.9	14.8	22.2
128	5.5	4.8	7.2





#67

sec-Butylbenzene

Concen: 2.539 ppbv

RT: 17.40 min Scan# 4497

Delta R.T. -0.01 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 1245843

Ion Ratio Lower Upper

105 100

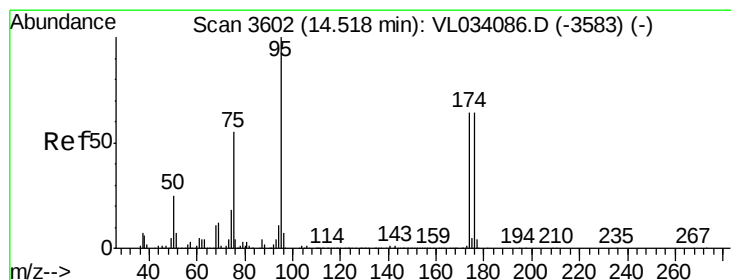
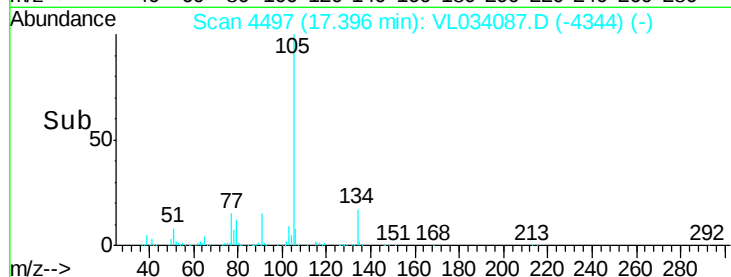
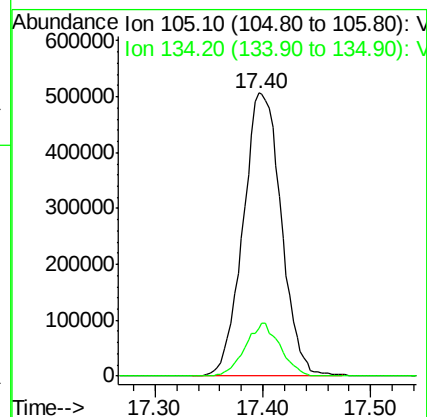
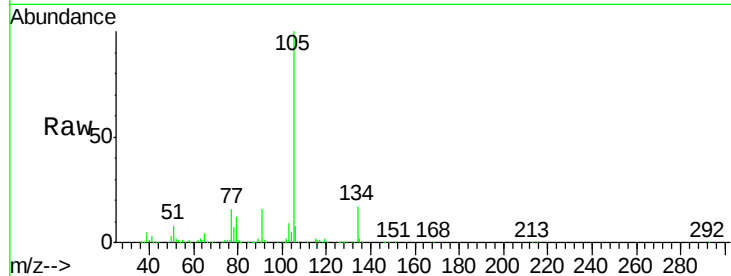
134 17.1 15.4 23.2

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#68

1-Bromo-4-Fluorobenzene

Concen: 8.812 ppbv

RT: 14.52 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

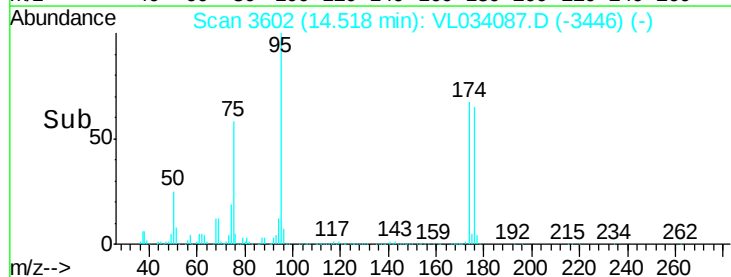
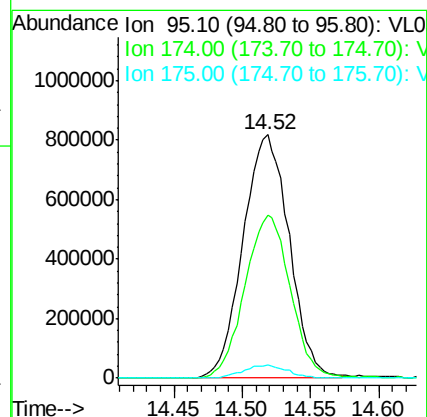
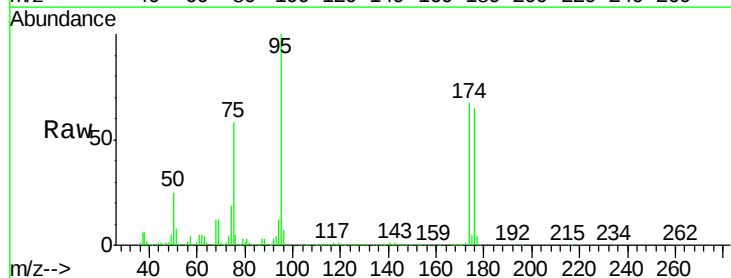
Tgt Ion: 95 Resp: 1909440

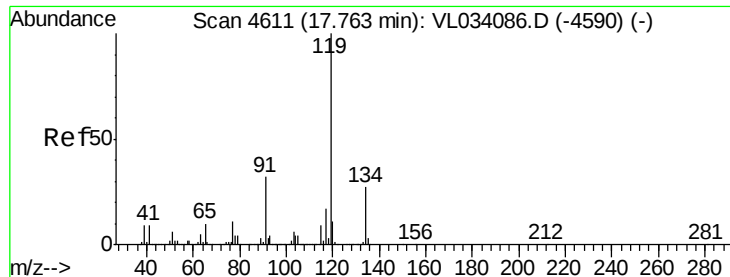
Ion Ratio Lower Upper

95 100

174 67.1 53.0 79.6

175 5.2 4.2 6.2





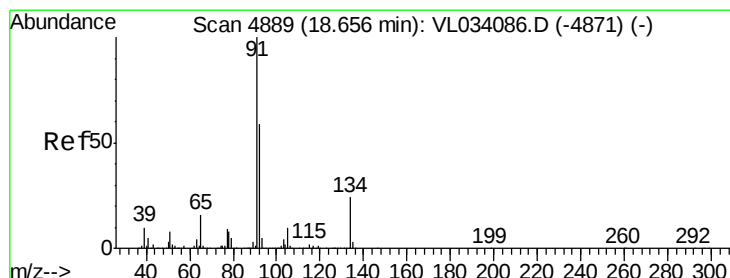
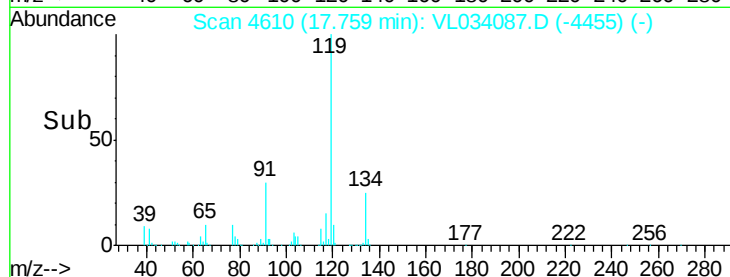
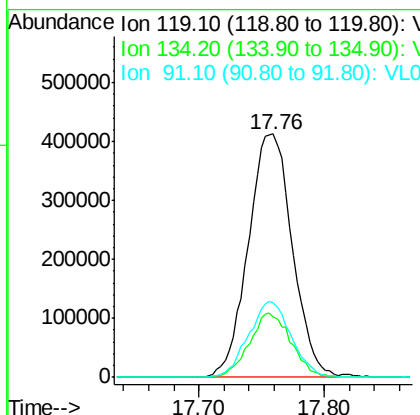
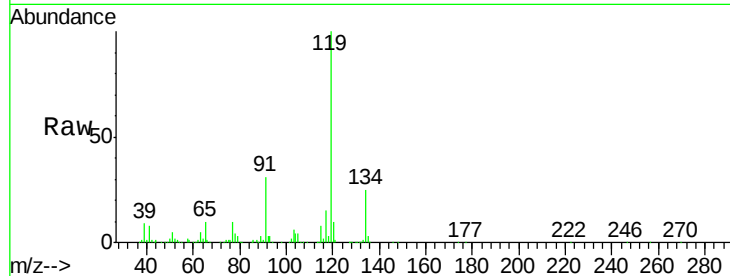
#69
 p-Isopropyltoluene
 Concen: 2.522 ppbv
 RT: 17.76 min Scan# 4610
 Delta R.T. -0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	21.3	31.9
91	30.7	25.4	38.0

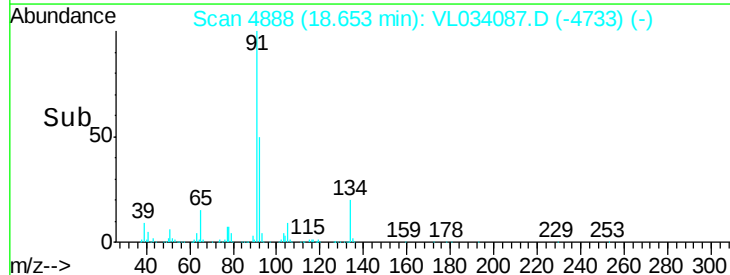
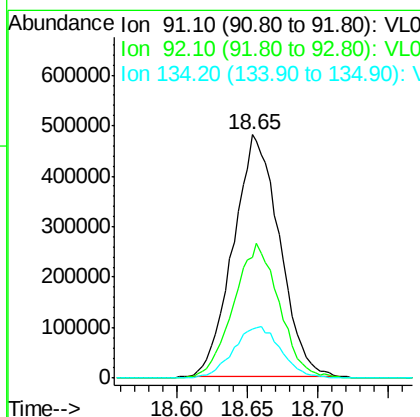
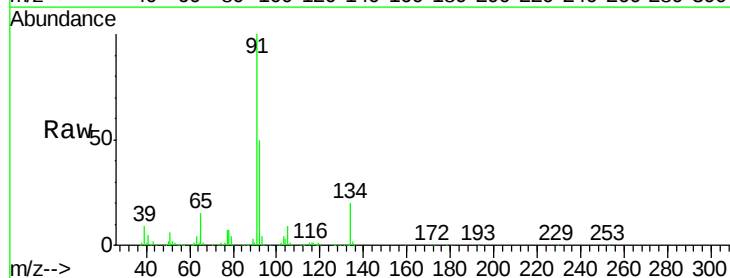
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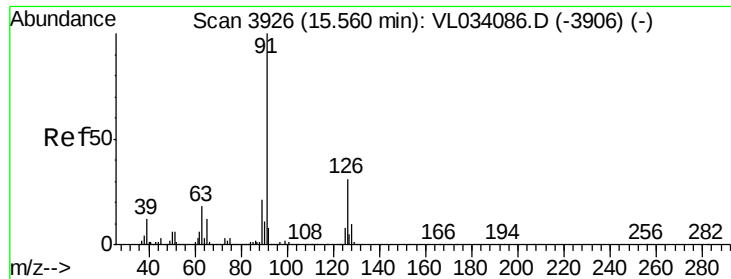
MMDadoda
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#70
 n-Butylbenzene
 Concen: 2.518 ppbv
 RT: 18.65 min Scan# 4888
 Delta R.T. -0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.4	45.9	68.9
134	22.0	19.0	28.4





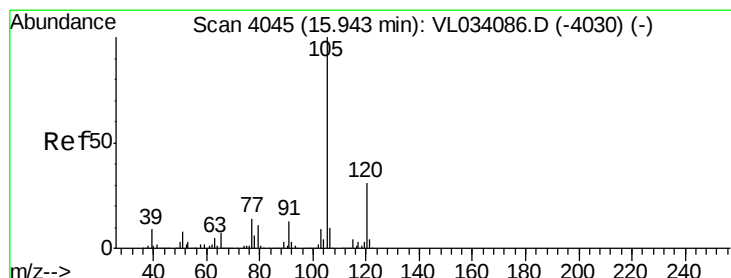
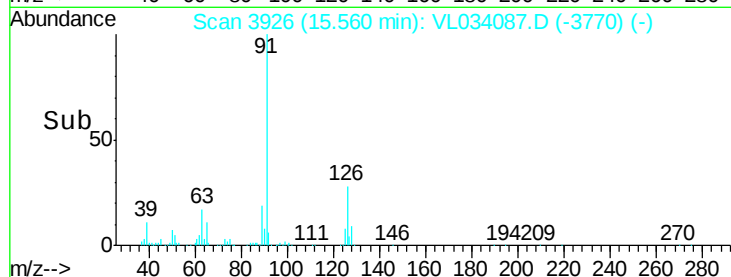
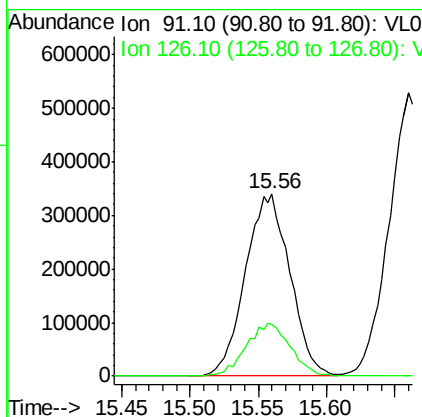
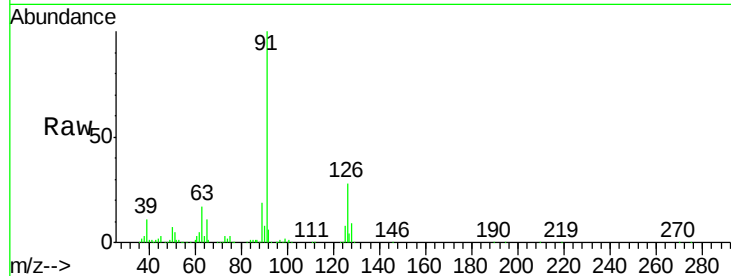
#71
 2-Chlorotoluene
 Concen: 2.727 ppbv
 RT: 15.56 min Scan# 3926
 Delta R.T. 0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 91 Resp: 770053
 Ion Ratio Lower Upper
 91 100
 126 28.7 12.2 48.6

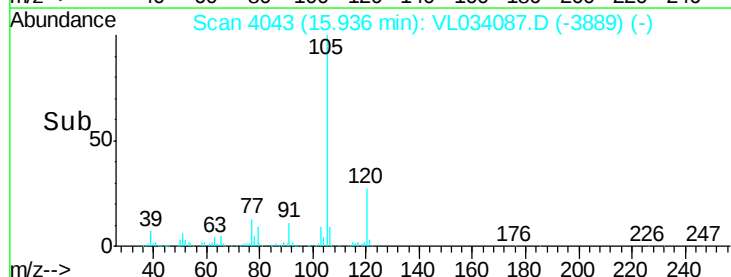
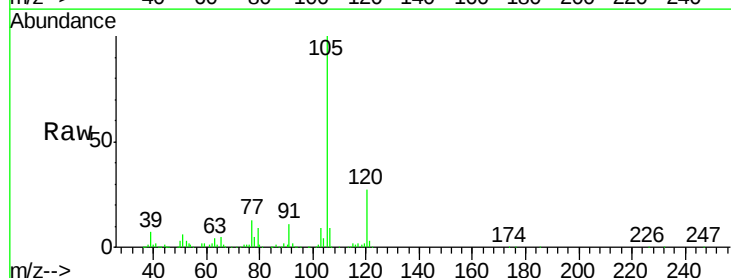
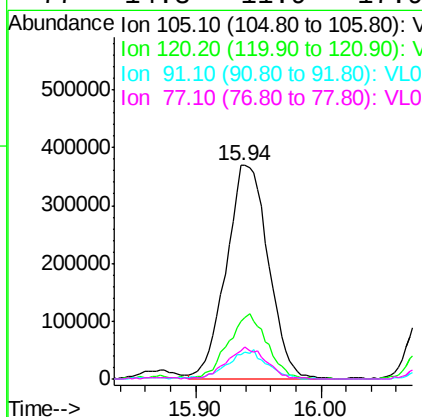
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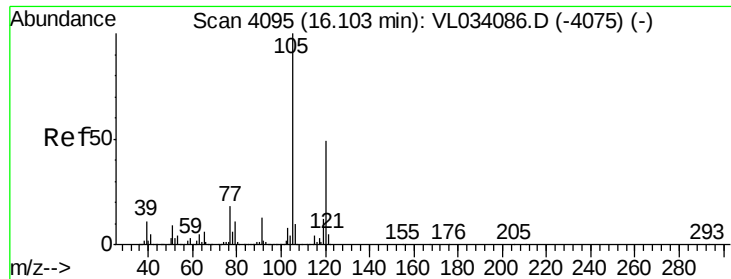
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#72
 4-Ethyltoluene
 Concen: 2.634 ppbv
 RT: 15.94 min Scan# 4043
 Delta R.T. -0.01 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Tgt Ion:105 Resp: 857943
 Ion Ratio Lower Upper
 105 100
 120 28.6 24.2 36.2
 91 12.5 10.5 15.7
 77 14.3 11.9 17.9





#73

1,3,5-Trimethylbenzene

Concen: 2.563 ppbv

RT: 16.10 min Scan# 4093

Delta R.T. -0.01 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 821975

Ion Ratio Lower Upper

105 100

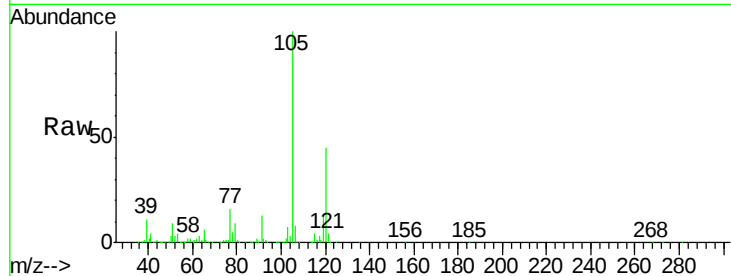
120 44.6 39.0 58.4

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.10

400000

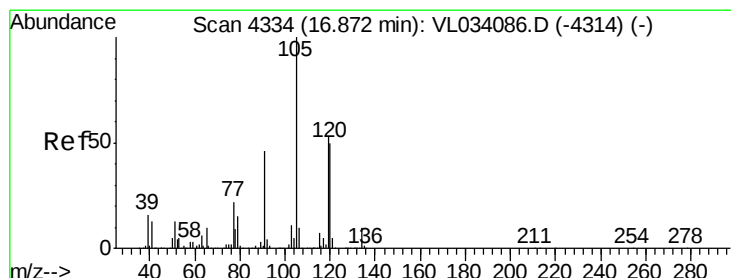
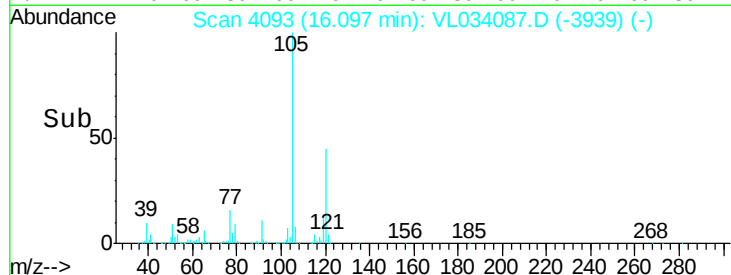
300000

200000

100000

0

Time--> 16.00 16.10



#74

1,2,4-Trimethylbenzene

Concen: 2.418 ppbv

RT: 16.86 min Scan# 4331

Delta R.T. -0.01 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Tgt Ion:105 Resp: 858104

Ion Ratio Lower Upper

105 100

120 45.6 40.2 60.4

91 55.9 38.1 57.1

77 22.5 17.8 26.8

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

600000

500000

400000

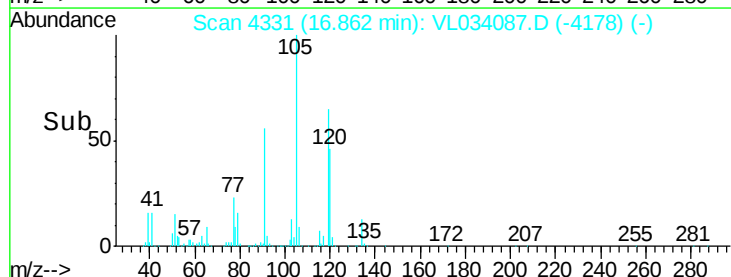
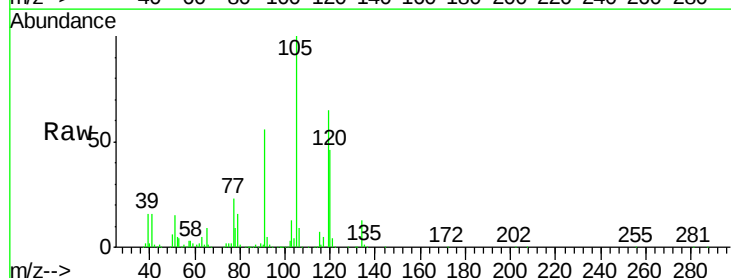
300000

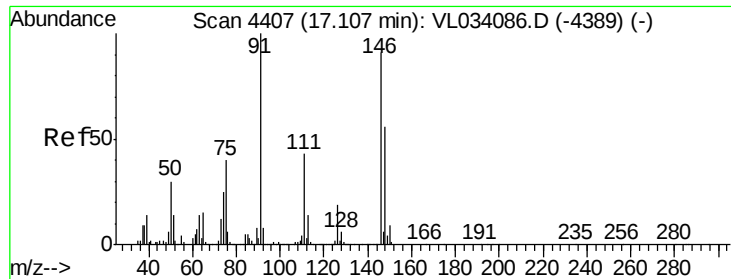
200000

100000

0

Time--> 16.80 16.90





#75

1,3-Dichlorobenzene

Concen: 2.224 ppbv

RT: 17.11 min Scan# 4407

Delta R.T. 0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

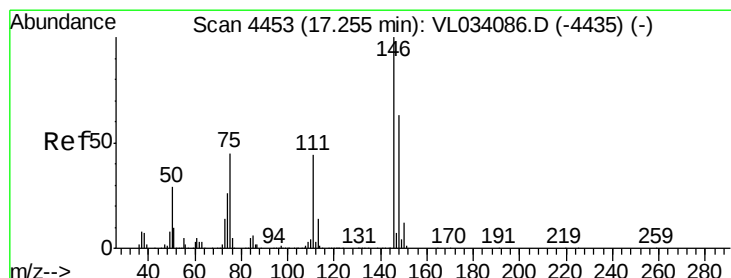
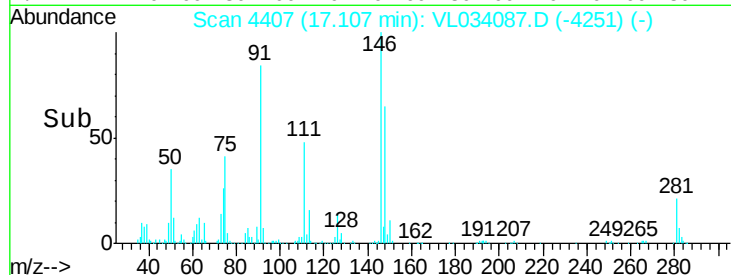
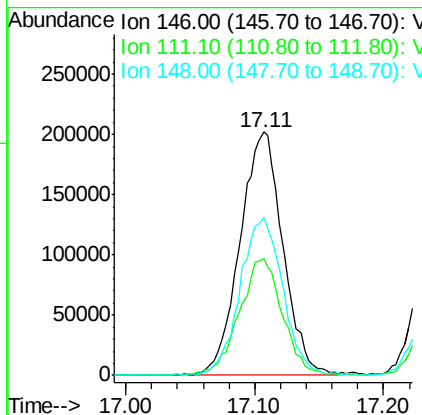
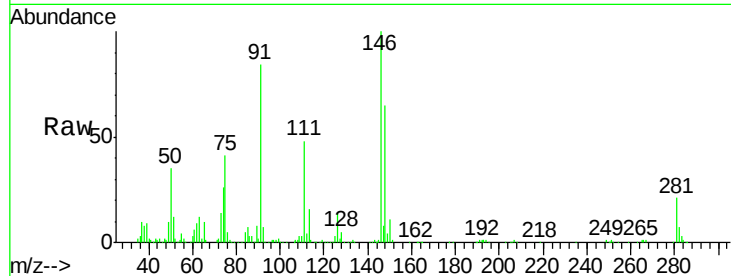
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	467193
Ion Ratio	Lower	Upper	
146	100		
111	48.6	23.8	71.5
148	65.0	32.4	97.2

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#76

1,4-Dichlorobenzene

Concen: 2.429 ppbv

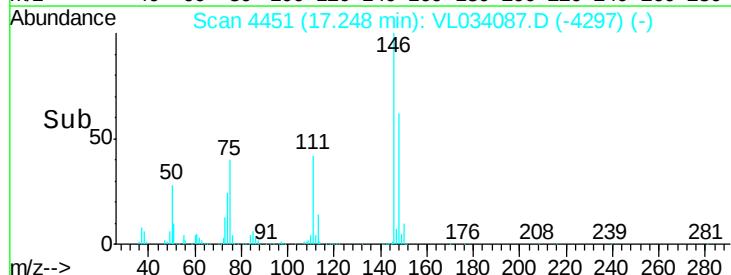
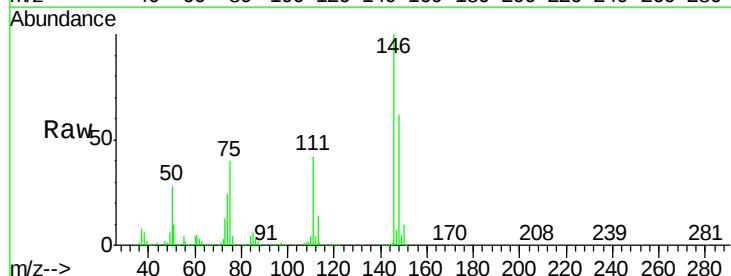
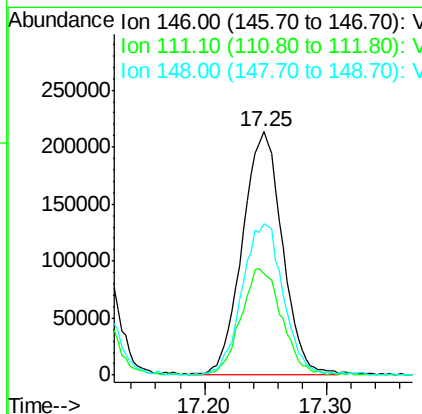
RT: 17.25 min Scan# 4451

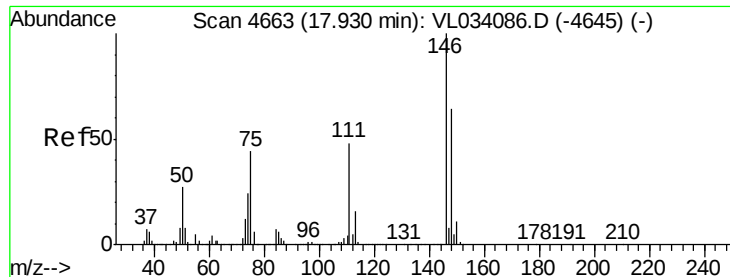
Delta R.T. -0.01 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Tgt Ion:	146	Resp:	481936
Ion Ratio	Lower	Upper	
146	100		
111	44.9	23.2	69.5
148	64.0	32.1	96.5





#77

1,2-Dichlorobenzene

Concen: 2.408 ppbv m

RT: 17.93 min Scan# 4664

Delta R.T. 0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:146 Resp: 475208

Ion Ratio Lower Upper

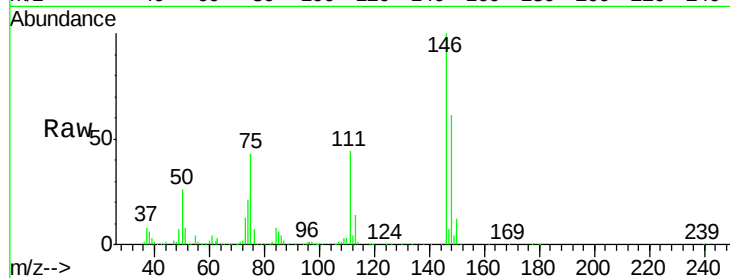
146 100

111 48.5 24.0 72.0

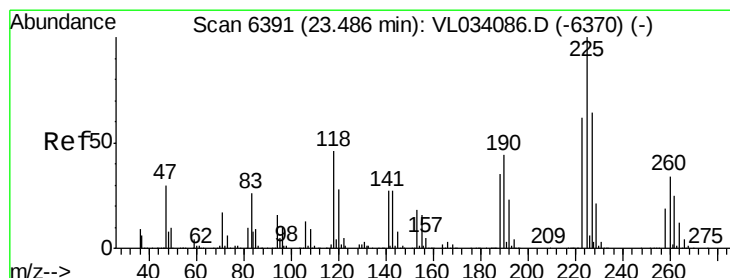
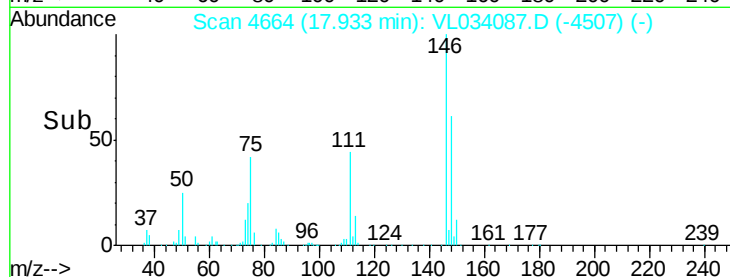
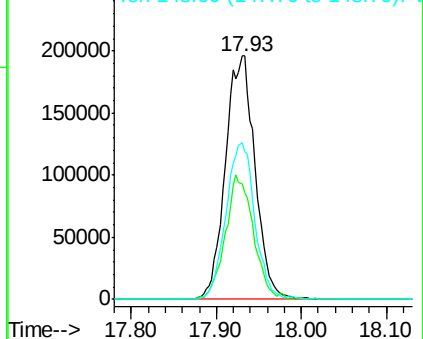
148 0.0 31.9 95.7#

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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 2.013 ppbv

RT: 23.49 min Scan# 6391

Delta R.T. 0.00 min

Lab File: VL034087.D

Acq: 5 Aug 2019 13:24

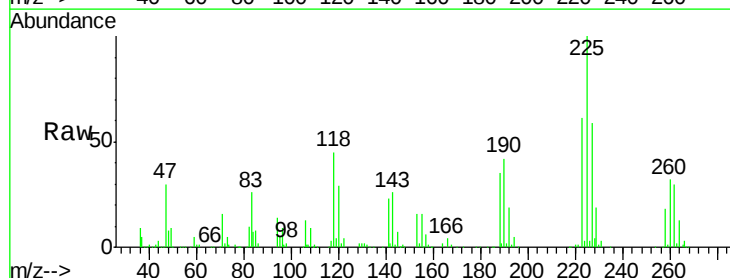
Tgt Ion:225 Resp: 364475

Ion Ratio Lower Upper

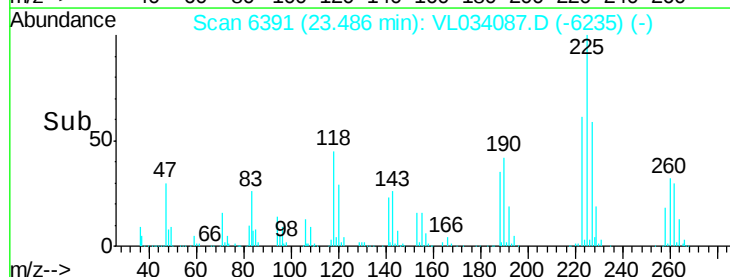
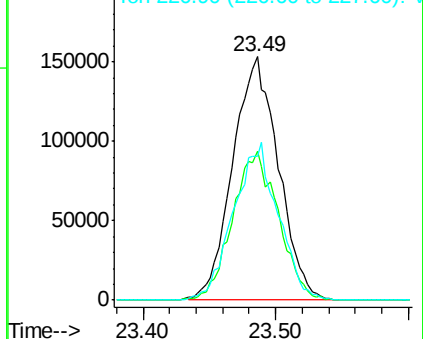
225 100

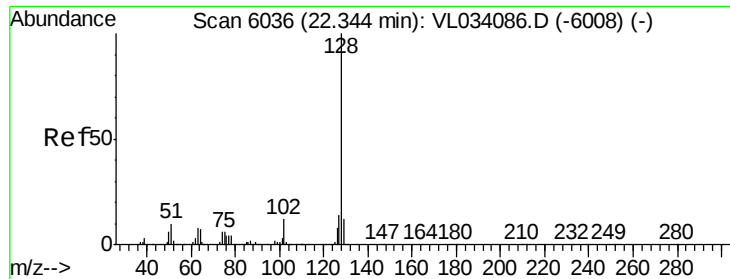
223 62.0 50.8 76.2

227 63.5 52.2 78.2



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





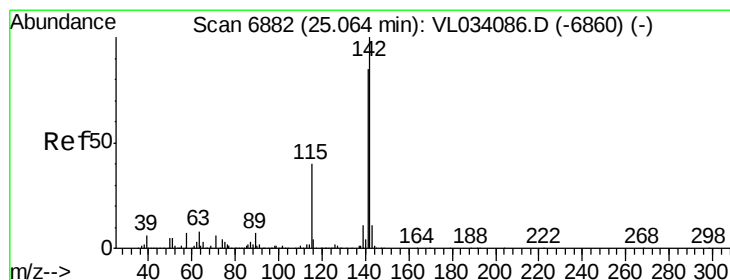
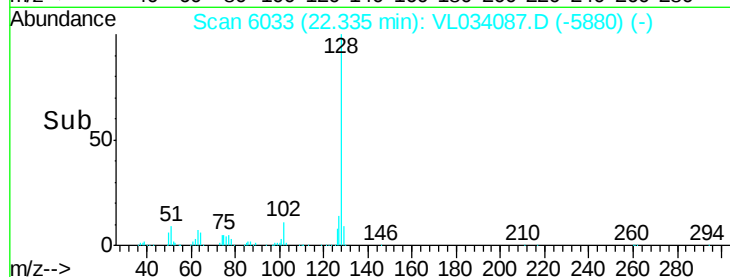
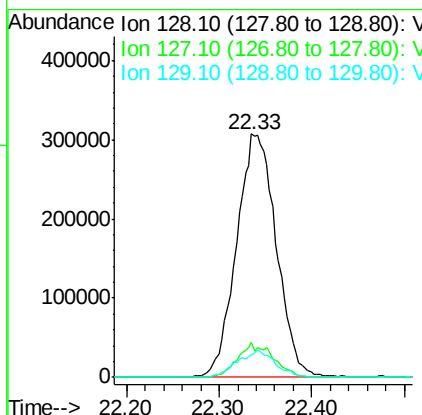
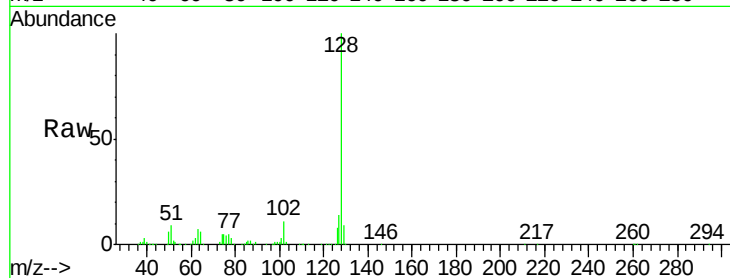
#79
Naphthalene
Concen: 2.874 ppbv
RT: 22.33 min Scan# 6033
Delta R.T. -0.01 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.2	11.0	16.6
129	9.3	9.2	13.8

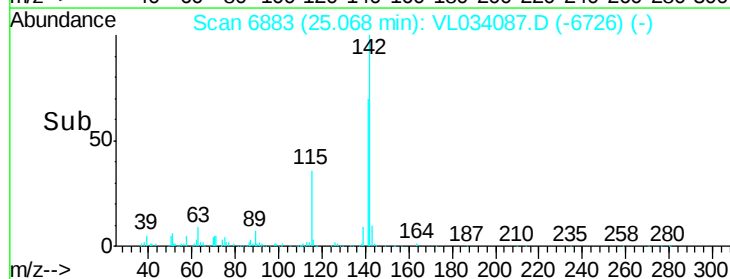
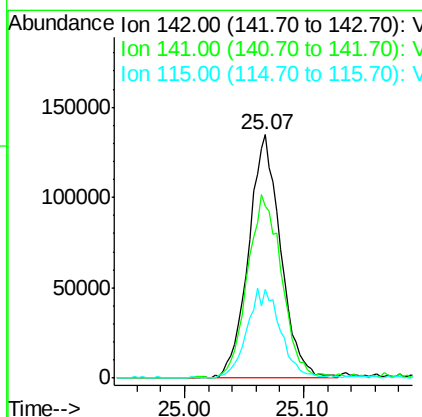
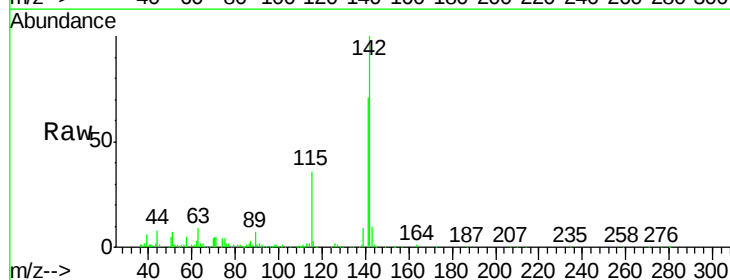
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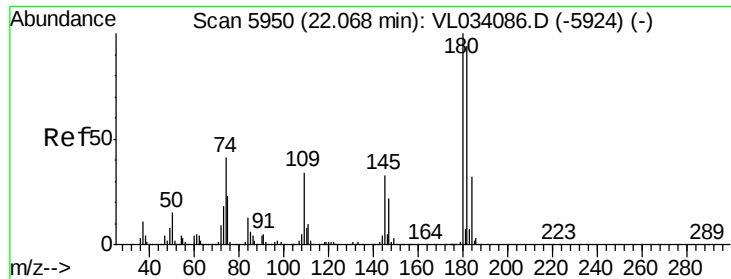
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#80
Naphthalene, 2-methyl-
Concen: 2.062 ppbv
RT: 25.07 min Scan# 6883
Delta R.T. 0.00 min
Lab File: VL034087.D
Acq: 5 Aug 2019 13:24

Tgt Ion	Ratio	Lower	Upper
142	100		
141	80.9	66.1	99.1
115	39.3	30.8	46.2





#81
 1,2,4-Trichlorobenzene
 Concen: 2.515 ppbv
 RT: 22.06 min Scan# 5949
 Delta R.T. -0.00 min
 Lab File: VL034087.D
 Acq: 5 Aug 2019 13:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	494201		
182	95.1		76.7	115.1
184	31.7		25.0	37.4

Manual Integrations
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