

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL033995.D
 Acq On : 2 Jul 2019 17:30
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:34 PM

Quant Time: Jul 02 19:29:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 2019
 QLast Update : Tue Jul 02 16:27:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	1163368	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	2975217	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.21	117	3230775	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.55	95	2345335	8.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	88.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.06	85	2652031	14.049	ppbv	97
3) Chlorodifluoromethane	3.00	51	1860423	13.584	ppbv	99
4) Chloromethane	3.16	50	1074151	13.750	ppbv	98
5) Vinyl Chloride	3.27	62	1189739	16.414	ppbv	99
6) Bromomethane	3.50	94	764624	15.879	ppbv	100
7) Chloroethane	3.58	64	463711	16.176	ppbv	99
8) Dichlorotetrafluoroethane	3.20	85	3047037	15.103	ppbv	100
9) Propene	3.02	41	727433	14.195	ppbv	95
10) Heptane	8.22	43	2084237	16.091	ppbv	99
11) Trichlorofluoromethane	3.99	101	4603576	18.900	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.53	101	3318379	20.158	ppbv	100
13) Ethanol	3.63	45	166892	10.010	ppbv	94
14) Bromoethene	3.77	108	1030760	16.803	ppbv	99
15) Acetone	3.88	43	3135781	18.481	ppbv	99
16) 1,3-Butadiene	3.35	39	1004703	15.557	ppbv	100
17) tert-Butyl alcohol	4.34	59	2758584	20.798	ppbv	99
18) 1,1-Dichloroethene	4.33	96	1507883	21.686	ppbv	96
19) Isopropyl Alcohol	4.01	45	2106123	21.728	ppbv	99
20) Methylene Chloride	4.39	84	1353373	20.454	ppbv	93
21) Allyl Chloride	4.46	41	2296581	23.828	ppbv	100
22) trans-1,2-Dichloroethene	4.94	96	1134069	15.473	ppbv	98
23) Vinyl Acetate	5.13	43	2922836	14.820	ppbv	99
24) 1,1-Dichloroethane	5.07	63	2343648	15.279	ppbv	99
25) Ethyl Acetate	5.74	43	3947062	15.275	ppbv	100
26) Hexane	5.76	57	1831000	15.563	ppbv	97
27) Carbon Disulfide	4.60	76	4071405	24.909	ppbv	99
28) Methyl tert-Butyl Ether	5.09	73	3032956	17.048	ppbv	100
29) Chloroform	5.83	83	3104941	15.409	ppbv	97
30) Cyclohexane	7.22	84	1515771	18.235	ppbv	96
31) cis-1,2-Dichloroethene	5.62	61	1863060	18.059	ppbv	98
32) 1,1,1-Trichloroethane	6.60	97	3161085	16.263	ppbv	99
34) 2-Butanone	5.31	43	2309651	13.761	ppbv	99
35) Carbon Tetrachloride	7.11	117	3310713	14.402	ppbv	98
36) Benzene	6.98	78	3619151	15.924	ppbv	100
37) 1,2-Dichloroethane	6.39	62	2471316	14.703	ppbv	99
38) Trichloroethene	7.93	130	1610683	18.202	ppbv	97
39) 1,2-Dichloropropane	7.71	63	1321154	15.062	ppbv	98
40) 1,4-Dioxane	7.93	88	522127	14.594	ppbv #	93
41) Tetrahydrofuran	6.12	42	1254199	14.722	ppbv	99
42) Bromodichloromethane	7.89	83	3415524	15.206	ppbv	99
43) Methyl Methacrylate	8.11	69	1471861	17.316	ppbv	99

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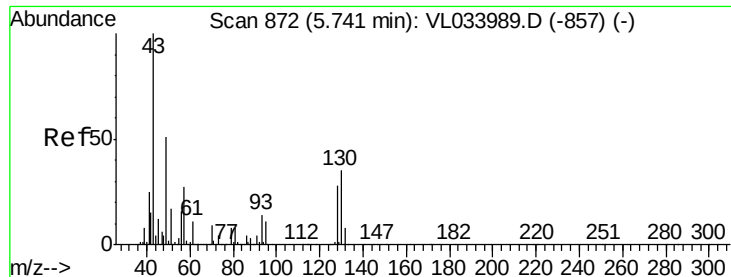
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.97	57	6150240	15.217	ppbv	99
45) t-1,3-Dichloropropene	9.39	75	2175185	19.503	ppbv	95
46) cis-1,3-Dichloropropene	8.81	75	2442028	19.111	ppbv	95
47) 1,1,2-Trichloroethane	9.59	97	1654477	15.822	ppbv	95
48) Dibromochloromethane	10.43	129	3094989	16.470	ppbv	100
49) Bromoform	13.17	173	2780425	16.761	ppbv	99
50) 4-Methyl-2-Pentanone	8.84	43	3814151	15.239	ppbv	99
51) 2-Hexanone	10.24	43	3113721	15.931	ppbv #	99
52) Tetrachloroethene	11.34	164	1547389	19.350	ppbv	98
53) Toluene	9.92	91	4585412	18.232	ppbv	100
54) 1,2-Dibromoethane	10.73	107	2578639	16.359	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.25	131	1943255	13.769	ppbv #	71
57) Chlorobenzene	12.27	112	3456974	14.287	ppbv #	97
58) Ethyl Benzene	12.84	91	6098842	16.744	ppbv	100
59) m/p-Xylene	13.12	91	10269232m	31.003	ppbv	
60) o-Xylene	13.82	91	5025149	14.693	ppbv	100
61) Styrene	13.66	104	3829013	17.301	ppbv	99
62) Isopropylbenzene	14.79	105	6803837	14.761	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.81	83	3497420	13.586	ppbv	100
64) n-propylbenzene	15.70	120	1752278	14.845	ppbv	98
65) tert-Butylbenzene	16.88	119	6097073	14.295	ppbv	99
66) Benzyl Chloride	17.13	91	3590894	16.614	ppbv	100
67) sec-Butylbenzene	17.43	105	8486315	14.183	ppbv	99
69) p-Isopropyltoluene	17.79	119	7082284	14.226	ppbv	99
70) n-Butylbenzene	18.69	91	7278699	13.349	ppbv	99
71) 2-Chlorotoluene	15.59	91	5156040	15.184	ppbv	100
72) 4-Ethyltoluene	15.97	105	6013428	15.451	ppbv	99
73) 1,3,5-Trimethylbenzene	16.13	105	5656149	14.754	ppbv	99
74) 1,2,4-Trimethylbenzene	16.90	105	5929758	13.420	ppbv	97
75) 1,3-Dichlorobenzene	17.14	146	3566142	12.888	ppbv	99
76) 1,4-Dichlorobenzene	17.28	146	3561564	14.018	ppbv	98
77) 1,2-Dichlorobenzene	17.96	146	3386435	13.262	ppbv	100
78) Hexachloro-1,3-Butadiene	23.51	225	2510755	12.589	ppbv	99
79) Naphthalene	22.37	128	5657994	16.020	ppbv	98
80) Naphthalene, 2-methyl-	25.09	142	2241511	15.907	ppbv	99
81) 1,2,4-Trichlorobenzene	22.10	180	3321707	14.898	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 872

Delta R.T. 0.00 min

Lab File: VL033995.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1163368

Ion Ratio Lower Upper

49 100

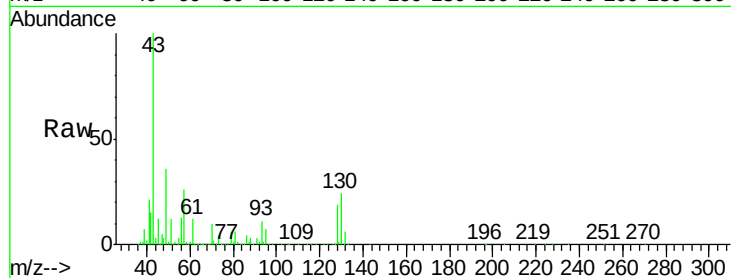
128 55.4 27.9 83.6

130 71.0 35.8 107.4

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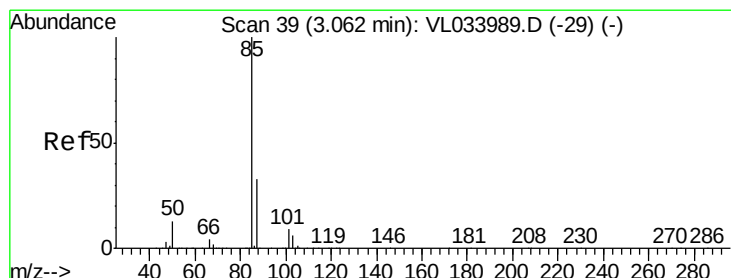
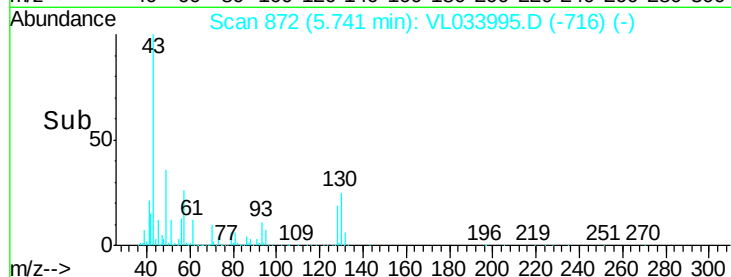
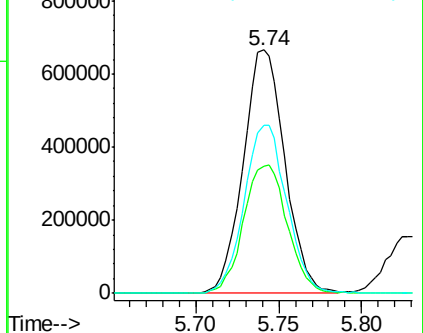
7/3/2019 11:03:34 PM



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: 14.049 ppbv

RT: 3.06 min Scan# 39

Delta R.T. 0.00 min

Lab File: VL033995.D

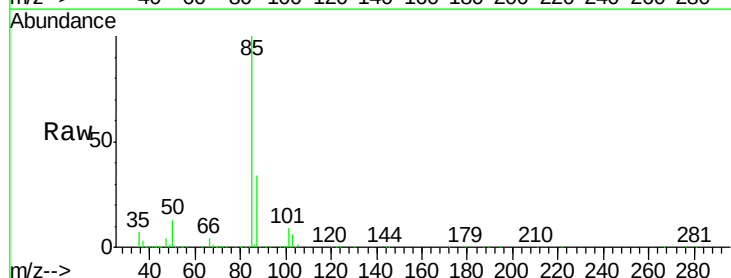
Acq: 2 Jul 2019 17:30

Tgt Ion: 85 Resp: 2652031

Ion Ratio Lower Upper

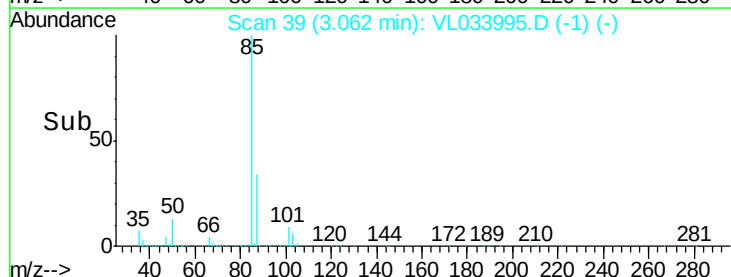
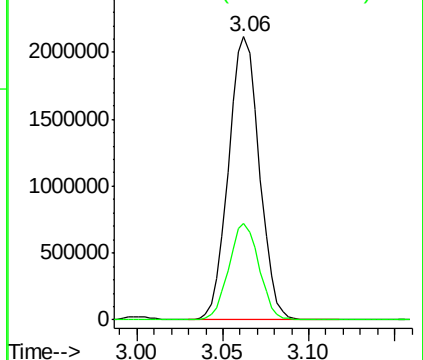
85 100

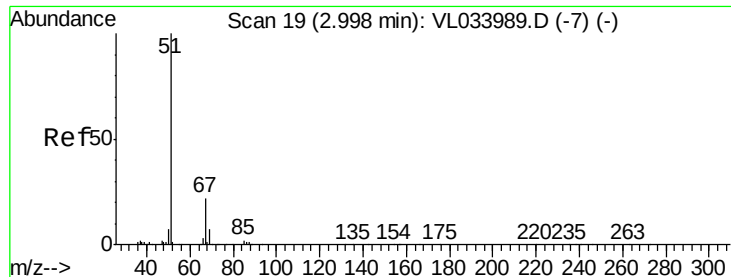
87 34.0 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.584 ppbv

RT: 3.00 min Scan# 19

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Tot Ion: 51 Resp: 1860423

Ion Ratio Lower Upper

51 100

67 22.0 17.3 25.9

Instrument :

MSVOA_L

ClientSampleId :

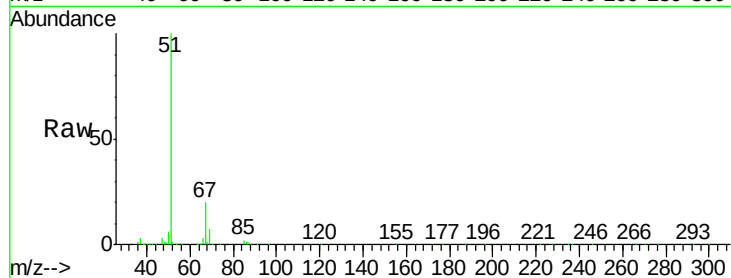
VSTDIC015

Manual Integrations

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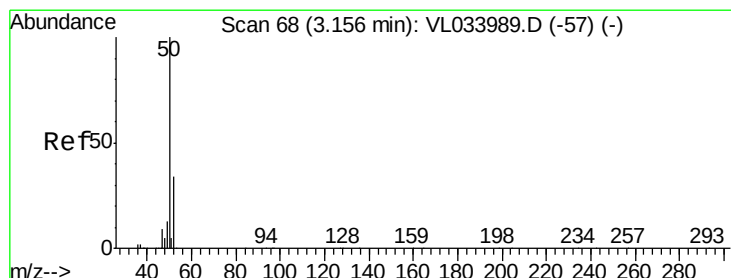
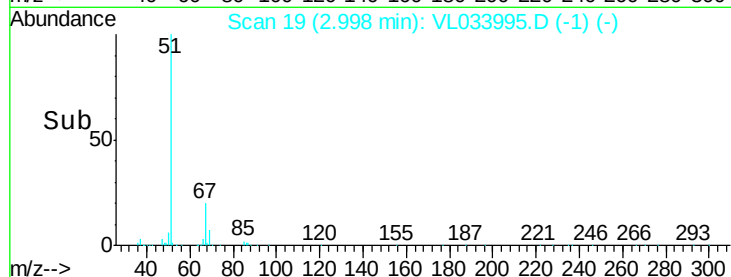
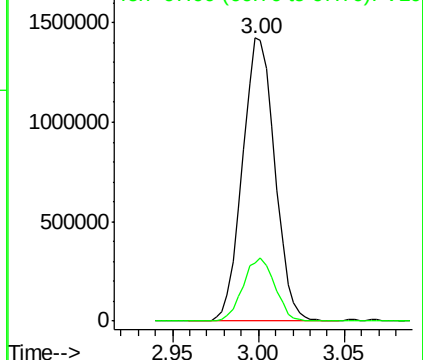
MMDadoda

7/3/2019 11:03:34 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 13.750 ppbv

RT: 3.16 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL033995.D

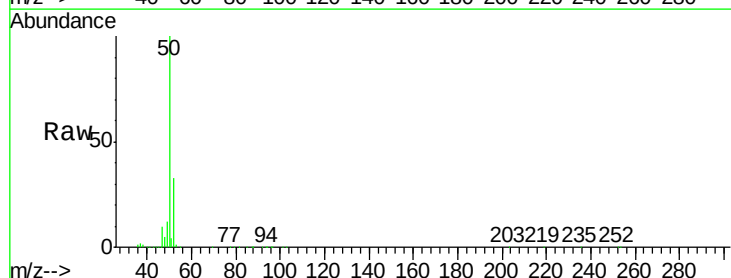
Acq: 2 Jul 2019 17:30

Tgt Ion: 50 Resp: 1074151

Ion Ratio Lower Upper

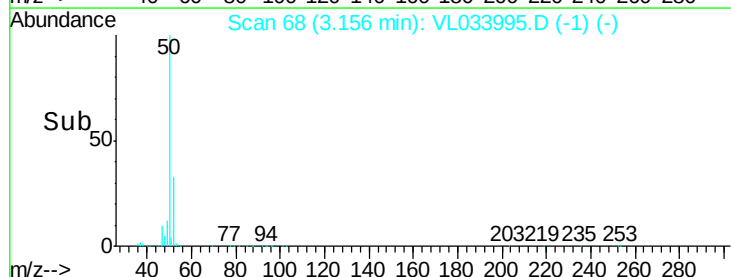
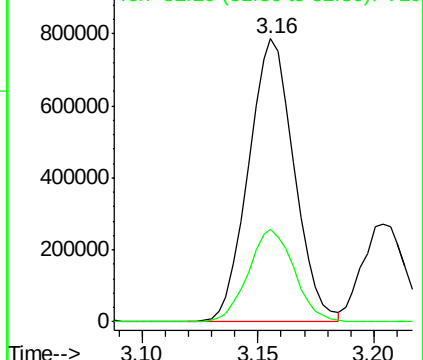
50 100

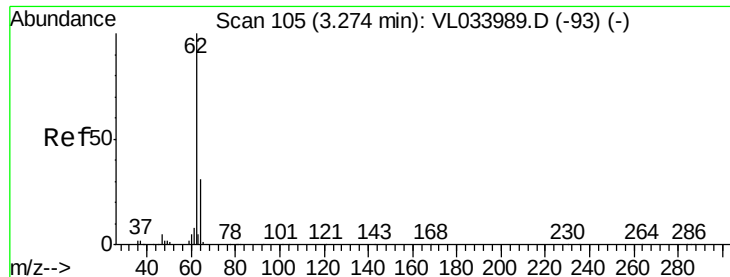
52 32.9 27.4 41.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 16.414 ppbv

RT: 3.27 min Scan# 105

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1189739

Ion Ratio Lower Upper

62 100

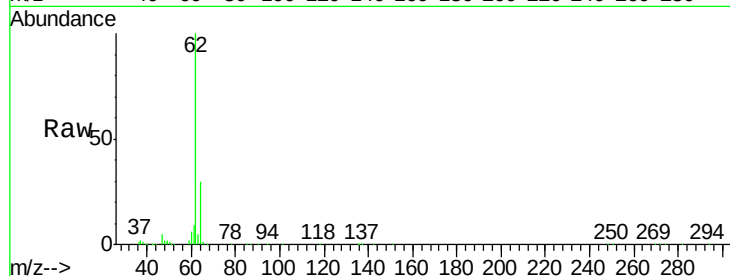
64 29.8 24.4 36.6

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7/3/2019 11:03:34 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.27

1000000

800000

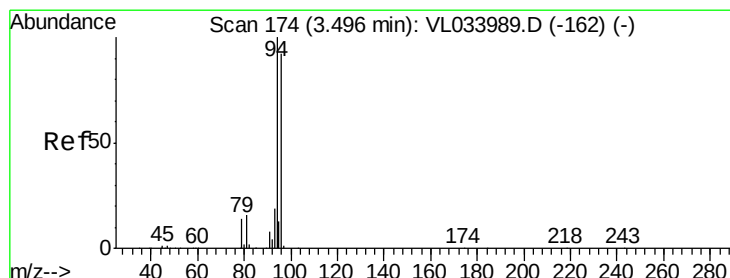
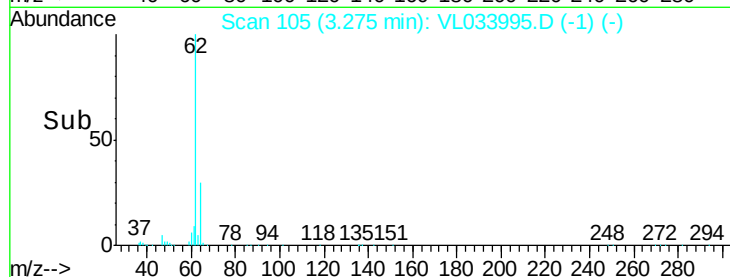
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 15.879 ppbv

RT: 3.50 min Scan# 175

Delta R.T. 0.00 min

Lab File: VL033995.D

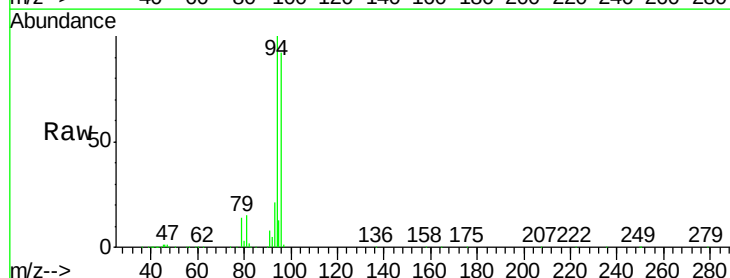
Acq: 2 Jul 2019 17:30

Tgt Ion: 94 Resp: 764624

Ion Ratio Lower Upper

94 100

96 92.5 73.8 110.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.50

600000

500000

400000

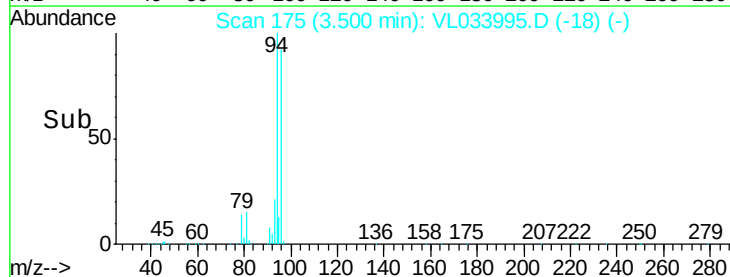
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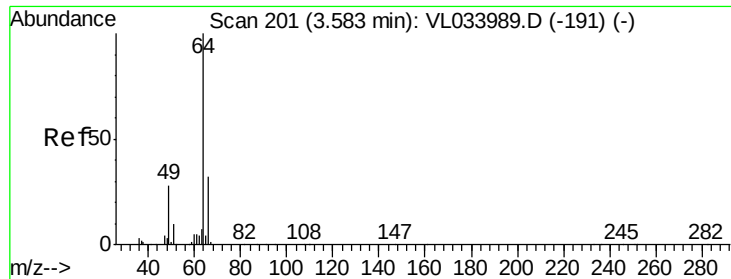
200000

100000

0

Time-->





#7

Chloroethane

Concen: 16.176 ppbv

RT: 3.58 min Scan# 201

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 463711

Ion Ratio Lower Upper

64 100

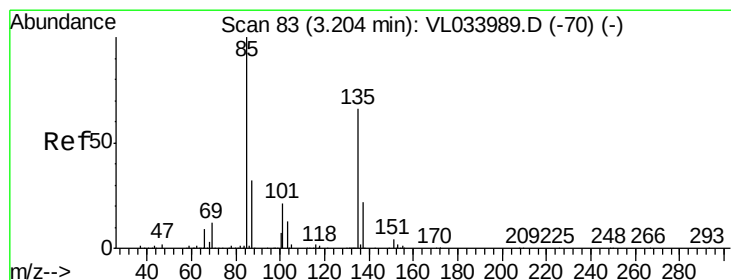
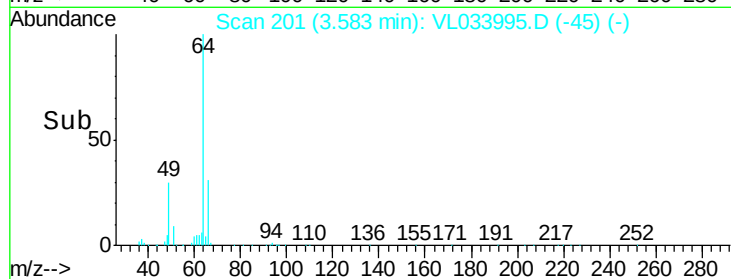
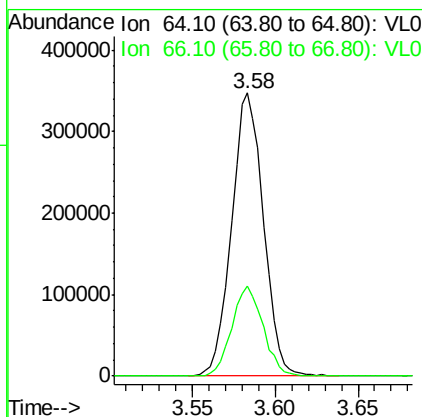
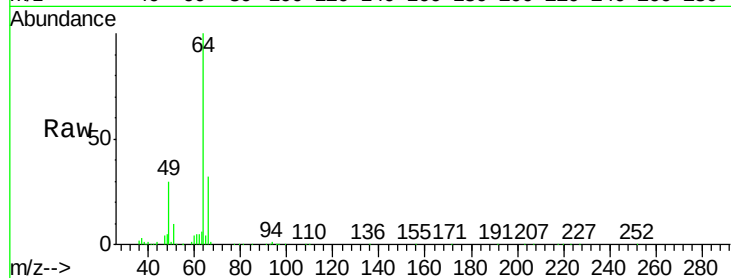
66 31.9 25.3 37.9

Manual Integrations

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7/3/2019 11:03:34 PM



#8

Dichlorotetrafluoroethane

Concen: 15.103 ppbv

RT: 3.20 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL033995.D

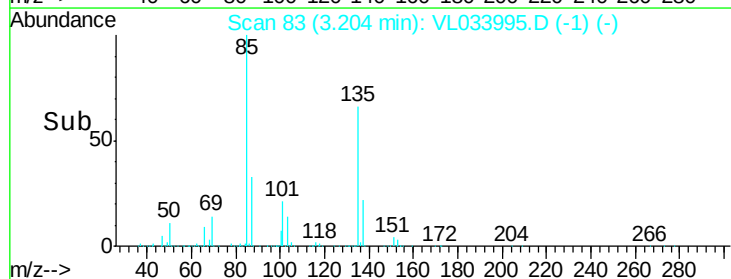
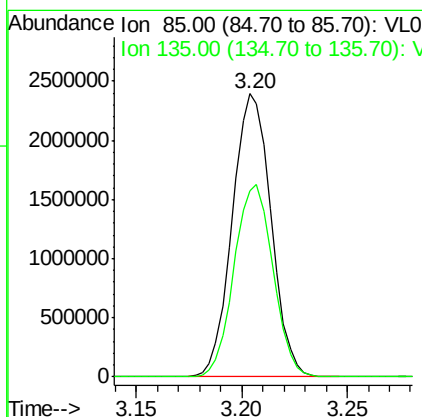
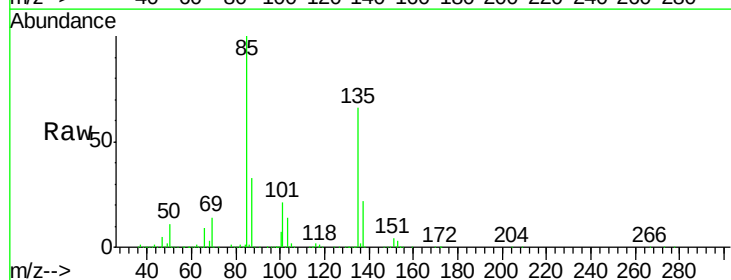
Acq: 2 Jul 2019 17:30

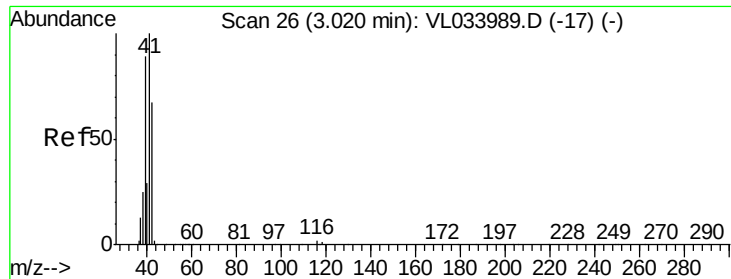
Tgt Ion: 85 Resp: 3047037

Ion Ratio Lower Upper

85 100

135 68.4 55.0 82.4





#9

Propene

Concen: 14.195 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 727433

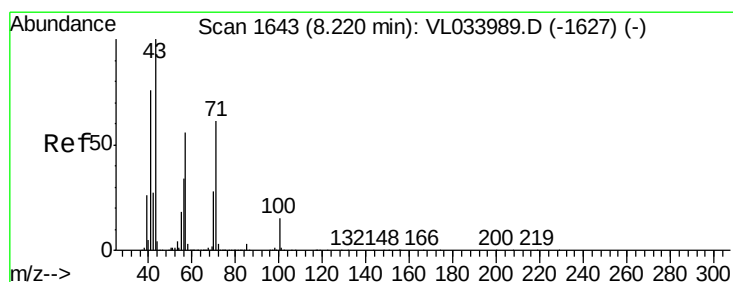
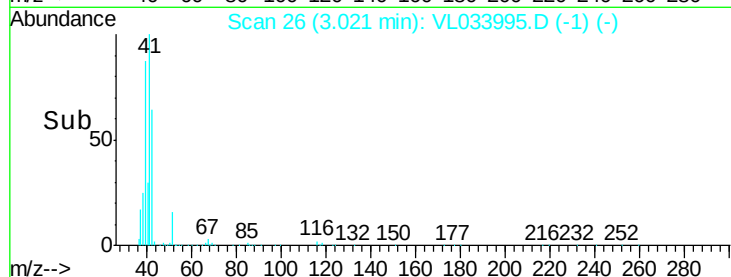
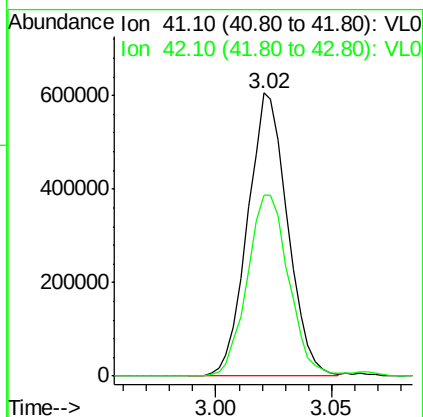
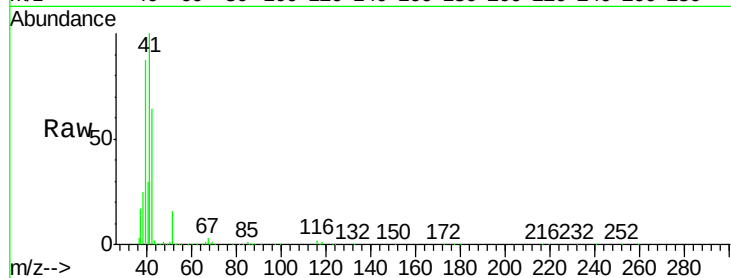
Ion Ratio Lower Upper

41 100

42 67.5 57.1 85.7

Manual Integrations
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7/3/2019 11:03:34 PM



#10

Heptane

Concen: 16.091 ppbv

RT: 8.22 min Scan# 1643

Delta R.T. 0.00 min

Lab File: VL033995.D

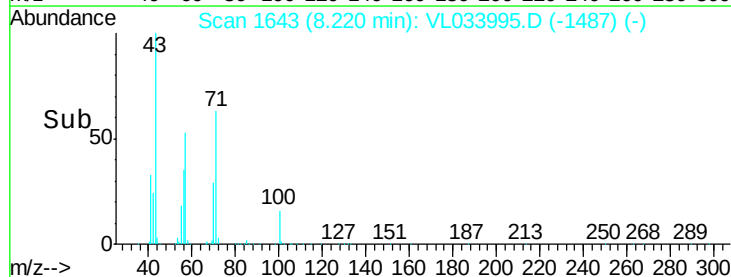
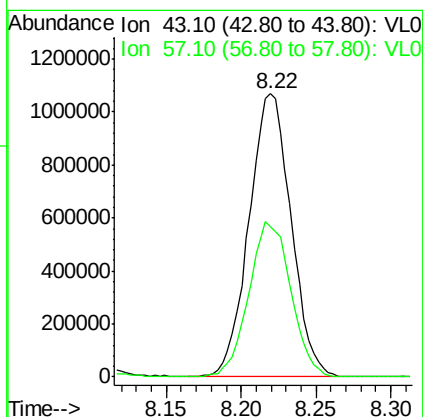
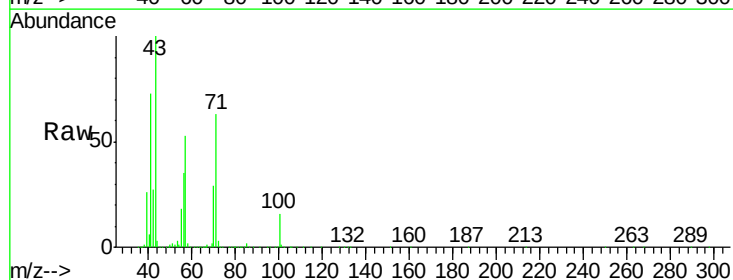
Acq: 2 Jul 2019 17:30

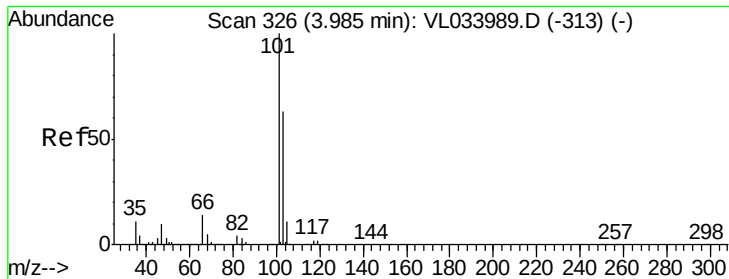
Tgt Ion: 43 Resp: 2084237

Ion Ratio Lower Upper

43 100

57 54.7 44.6 66.8





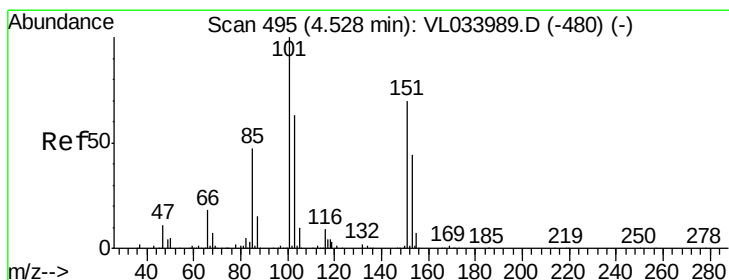
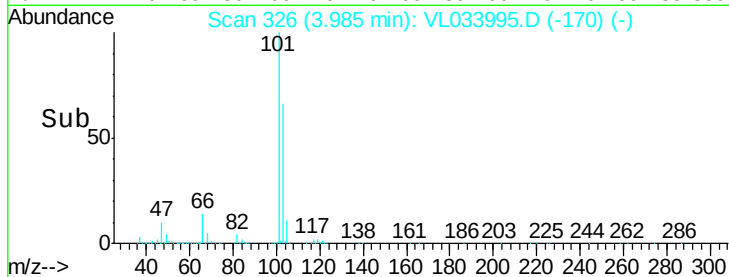
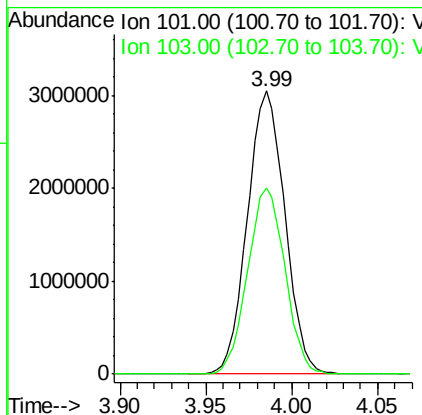
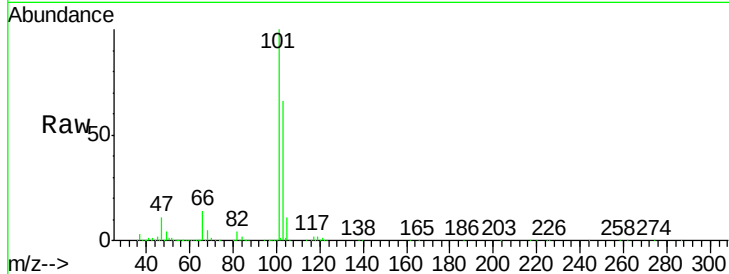
#11
 Trichlorofluoromethane
 Concen: 18.900 ppbv
 RT: 3.99 min Scan# 326
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 4603576
 Ion Ratio Lower Upper
 101 100
 103 65.7 50.8 76.2

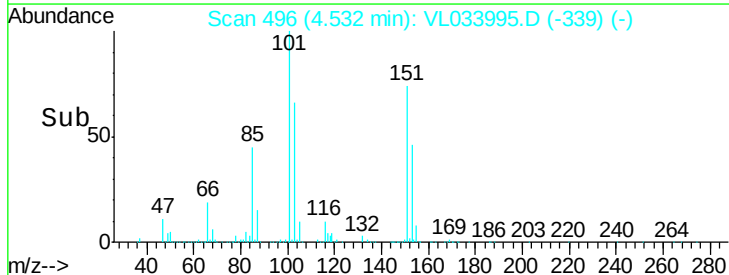
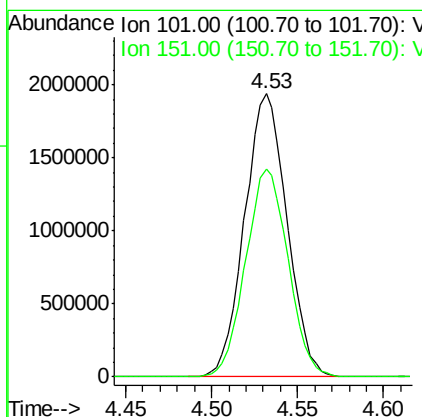
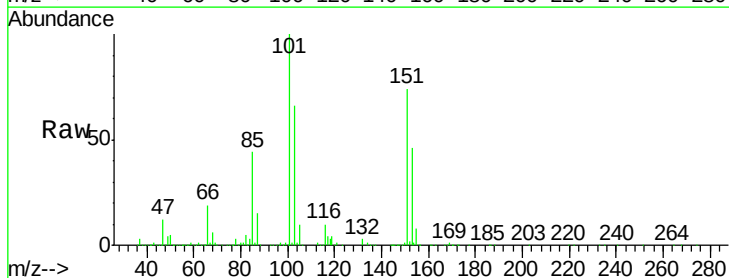
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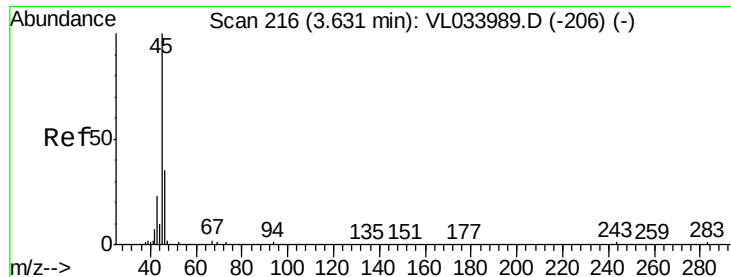
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 20.158 ppbv
 RT: 4.53 min Scan# 496
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Tgt Ion:101 Resp: 3318379
 Ion Ratio Lower Upper
 101 100
 151 73.8 59.0 88.4





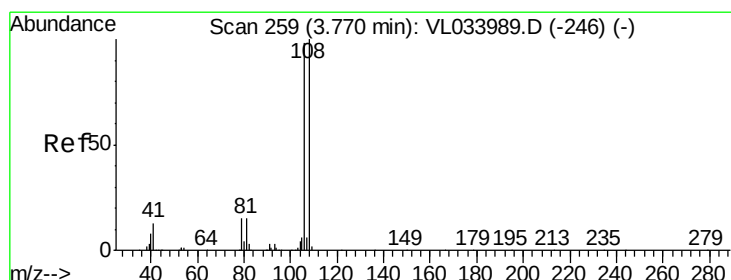
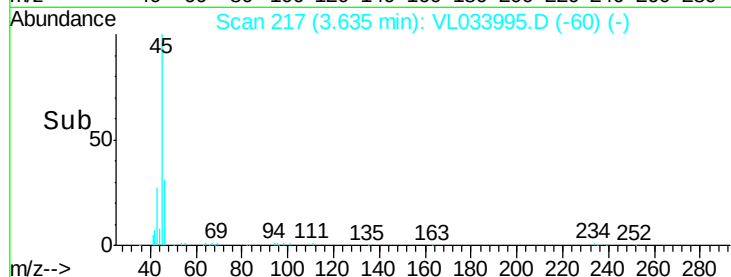
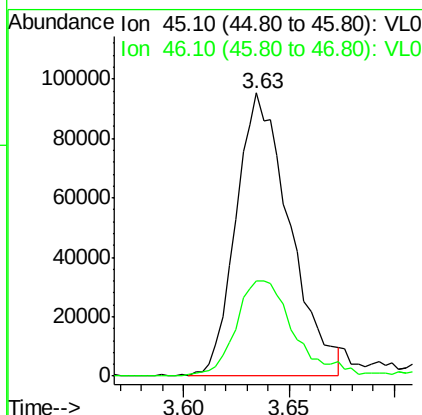
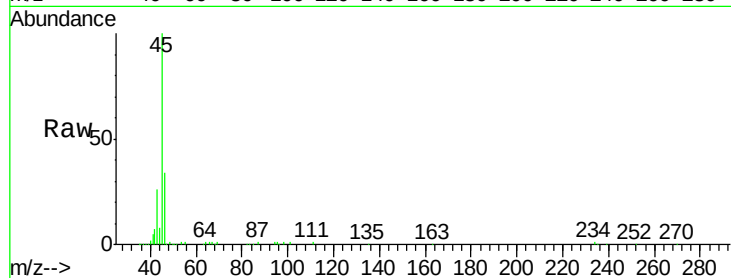
#13
Ethanol
Concen: 10.010 ppbv
RT: 3.63 min Scan# 217
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 45 Resp: 166892
Ion Ratio Lower Upper
45 100
46 36.9 16.2 64.6

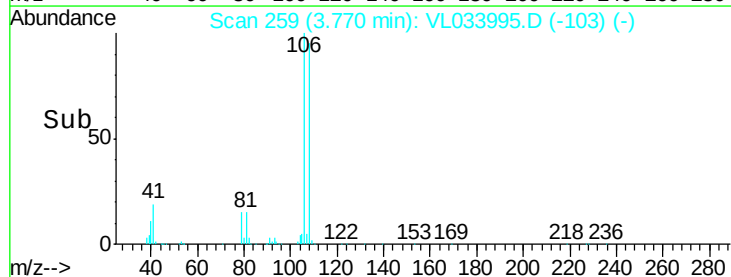
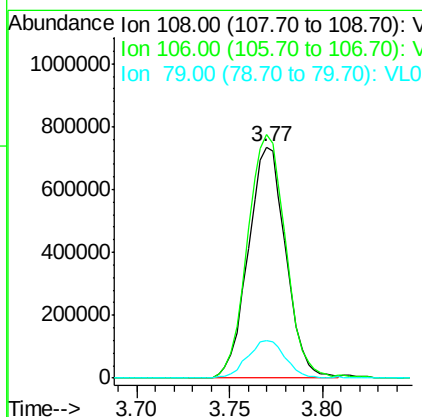
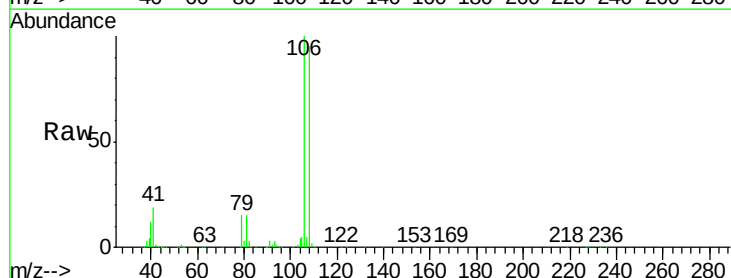
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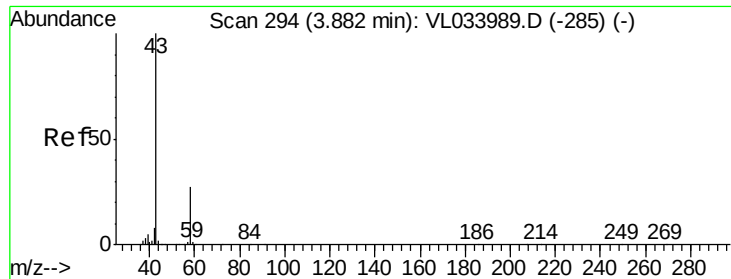
MMDadoda
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#14
Bromoethene
Concen: 16.803 ppbv
RT: 3.77 min Scan# 259
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Tgt Ion: 108 Resp: 1030760
Ion Ratio Lower Upper
108 100
106 107.5 85.6 128.4
79 17.0 14.0 21.0





#15

Acetone

Concen: 18.481 ppbv

RT: 3.88 min Scan# 294

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3135781

Ion Ratio Lower Upper

43 100

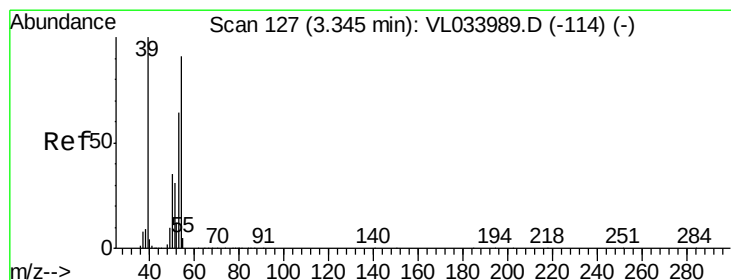
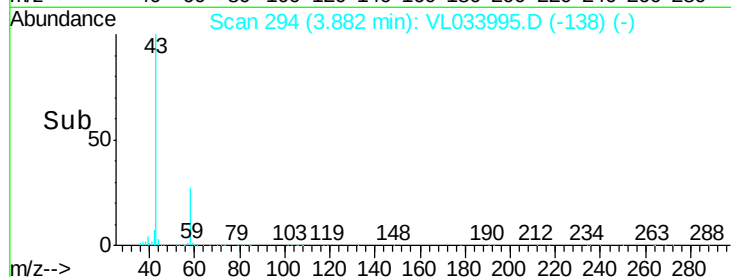
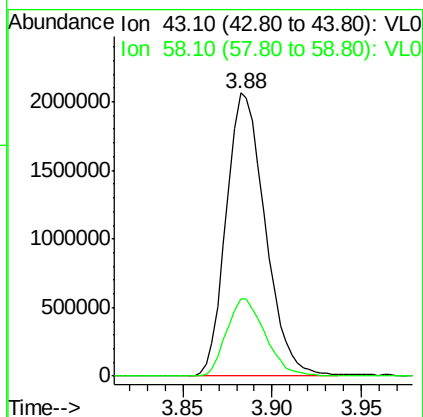
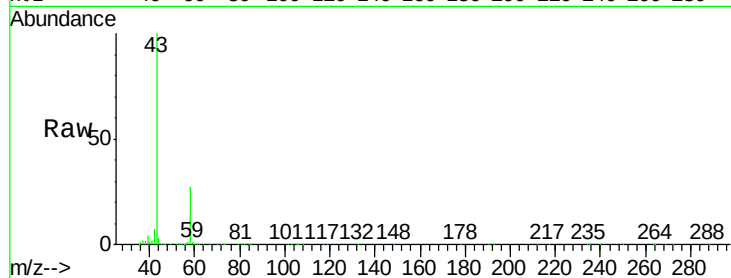
58 27.3 21.4 32.0

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7/3/2019 11:03:34 PM



#16

1,3-Butadiene

Concen: 15.557 ppbv

RT: 3.35 min Scan# 128

Delta R.T. 0.00 min

Lab File: VL033995.D

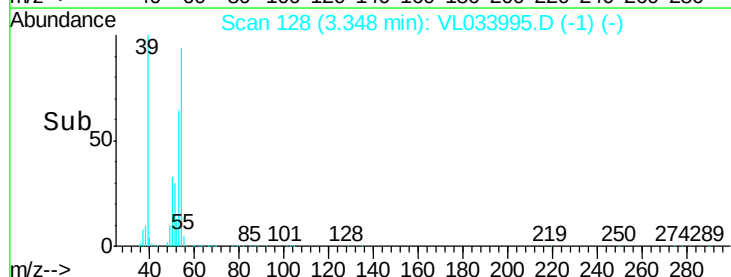
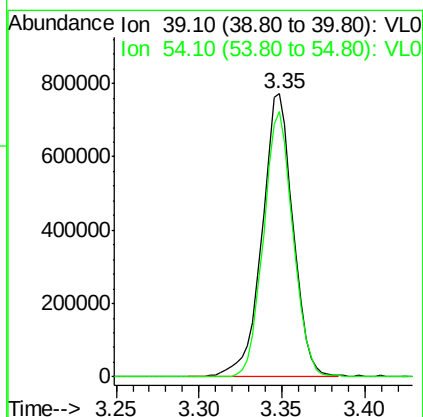
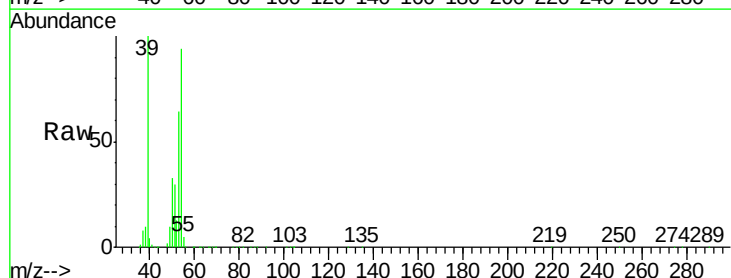
Acq: 2 Jul 2019 17:30

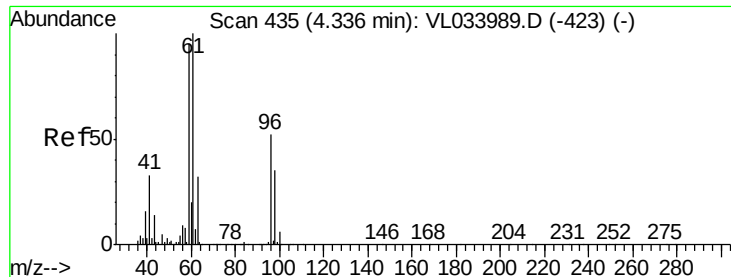
Tgt Ion: 39 Resp: 1004703

Ion Ratio Lower Upper

39 100

54 89.4 71.4 107.2





#17

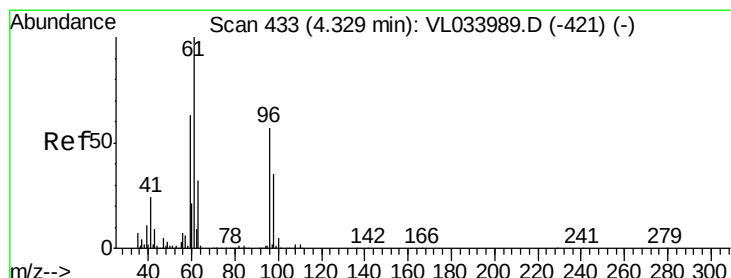
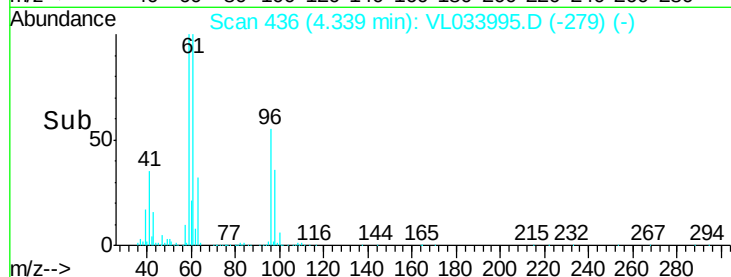
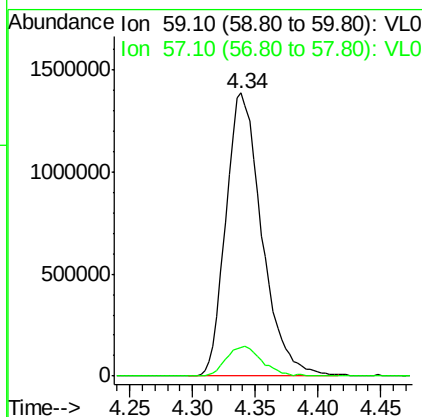
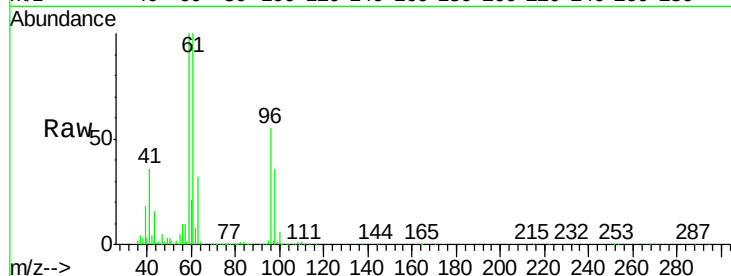
tert-Butyl alcohol
Concen: 20.798 ppbv
RT: 4.34 min Scan# 436
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 2758584
Ion Ratio Lower Upper
59 100
57 10.7 8.2 12.2

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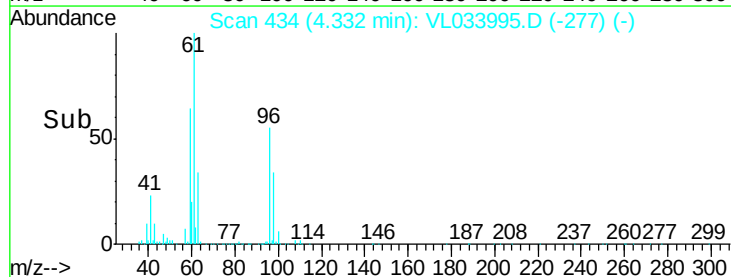
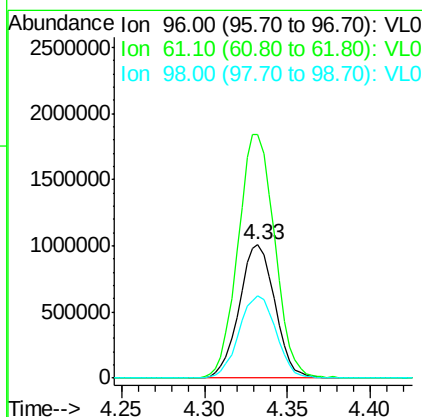
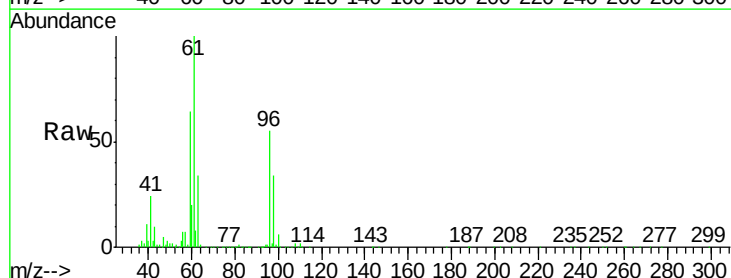
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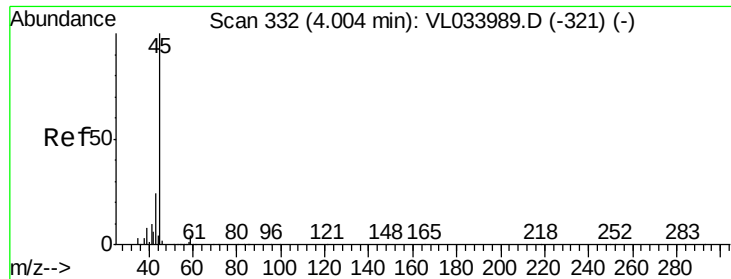


#18

1,1-Dichloroethene
Concen: 21.686 ppbv
RT: 4.33 min Scan# 434
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Tgt Ion: 96 Resp: 1507883
Ion Ratio Lower Upper
96 100
61 182.4 139.4 209.0
98 62.0 49.4 74.0





#19

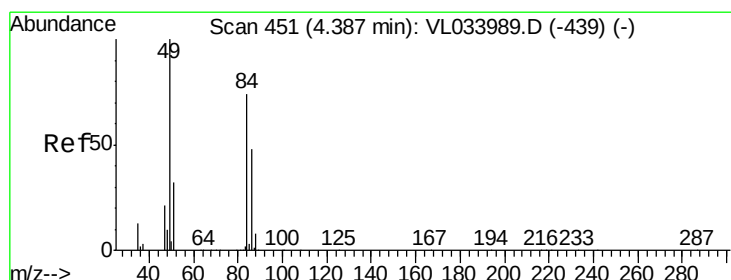
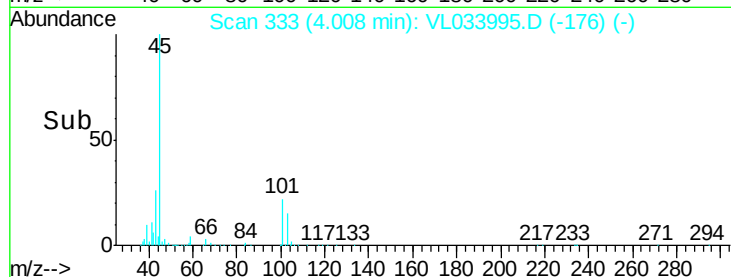
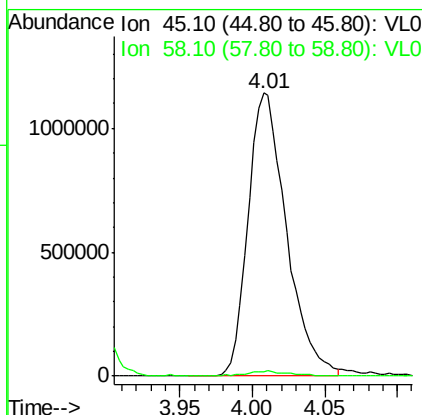
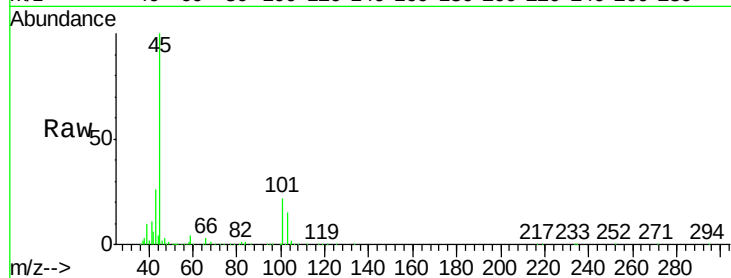
Isopropyl Alcohol
 Concen: 21.728 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 2106123
 Ion Ratio Lower Upper
 45 100
 58 2.4 1.7 2.5

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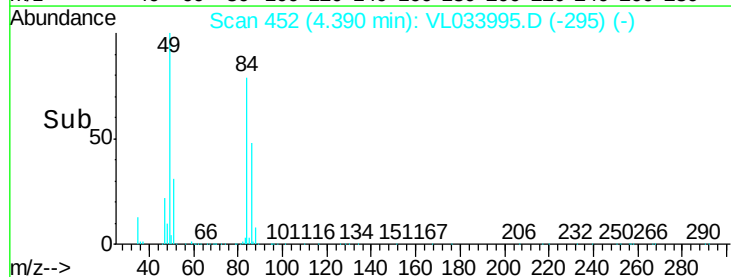
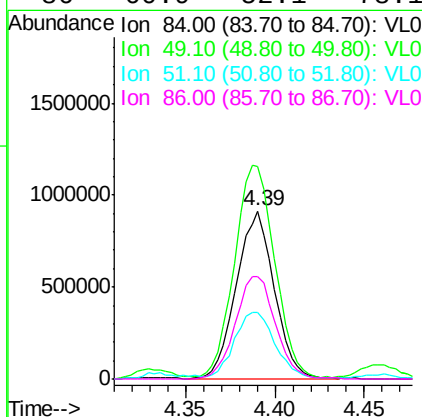
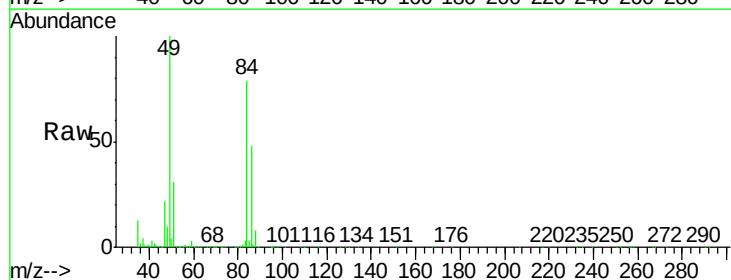
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 7/3/2019 11:03:34 PM

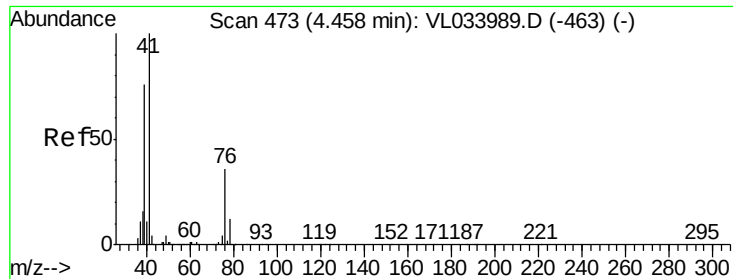


#20

Methylene Chloride
 Concen: 20.454 ppbv
 RT: 4.39 min Scan# 452
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Tgt Ion: 84 Resp: 1353373
 Ion Ratio Lower Upper
 84 100
 49 125.6 107.6 161.4
 51 39.0 35.0 52.6
 86 60.9 52.1 78.1





#21

Allvl Chloride

Concen: 23.828 ppbv

RT: 4.46 min Scan# 473

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Instrument :

MSVOA_L

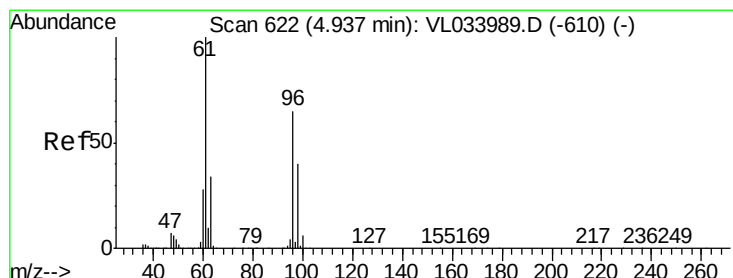
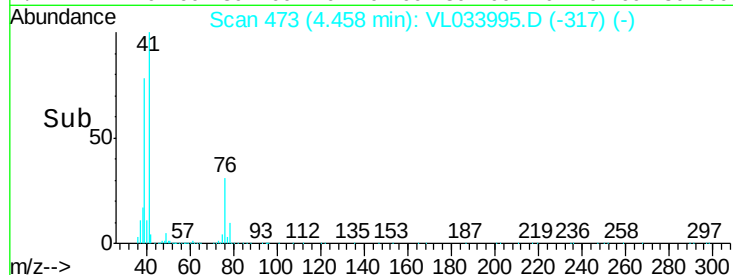
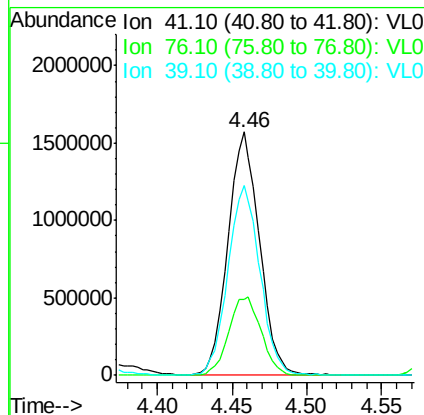
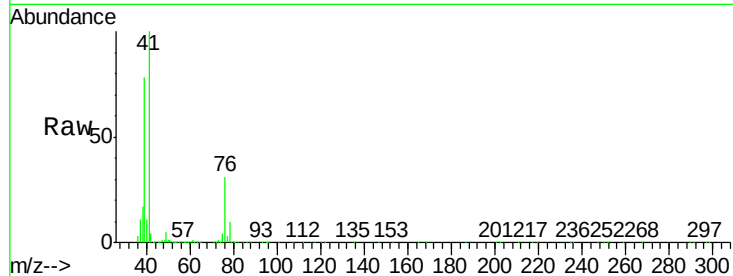
ClientSampleId :

VSTDIC015

Tot Ion:	41	Resp:	2296581
Ion	Ratio	Lower	Upper
41	100		
76	33.4	26.8	40.2
39	79.4	63.1	94.7

Manual Integrations
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7/3/2019 11:03:34 PM



#22

trans-1,2-Dichloroethene

Concen: 15.473 ppbv

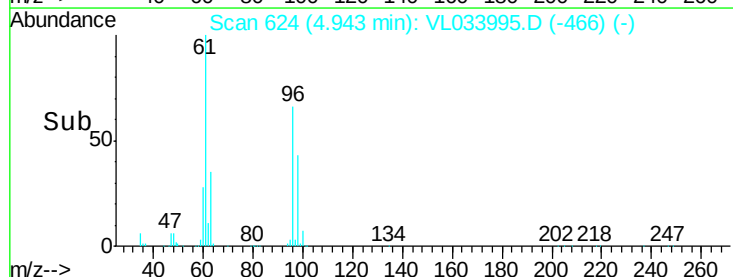
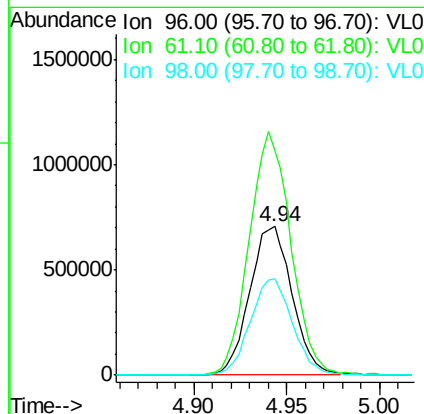
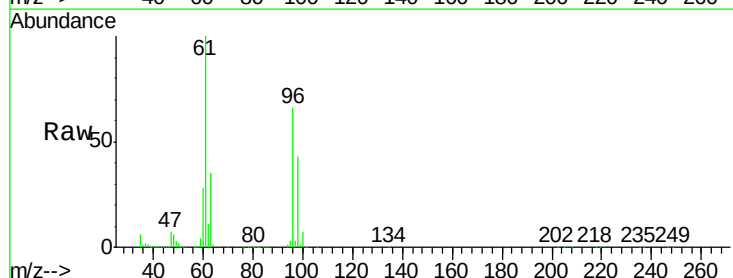
RT: 4.94 min Scan# 624

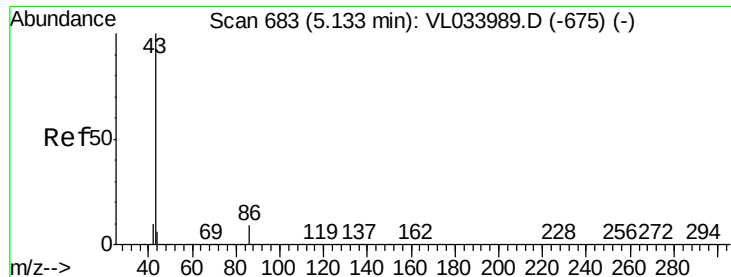
Delta R.T. 0.01 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Tgt Ion:	96	Resp:	1134069
Ion	Ratio	Lower	Upper
96	100		
61	150.8	122.9	184.3
98	64.4	49.6	74.4





#23

Vinyl Acetate

Concen: 14.820 ppbv

RT: 5.13 min Scan# 683

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2922836

Ion Ratio Lower Upper

43 100

86 8.8 6.6 9.8

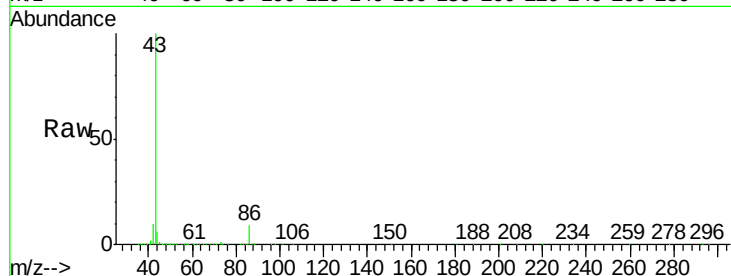
42 10.2 8.3 12.5

44 5.4 4.3 6.5

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7/3/2019 11:03:34 PM

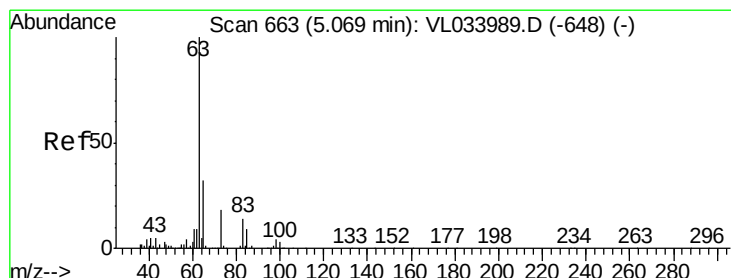
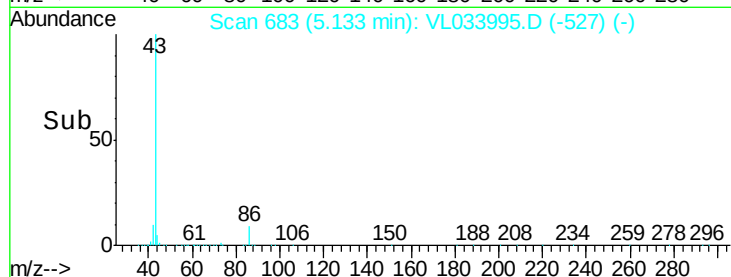
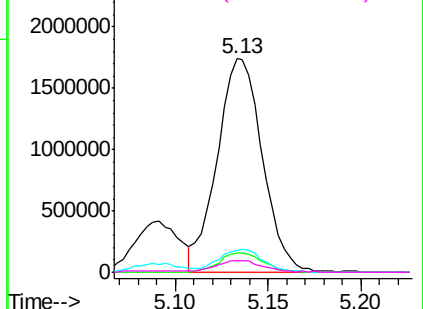


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 15.279 ppbv

RT: 5.07 min Scan# 664

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

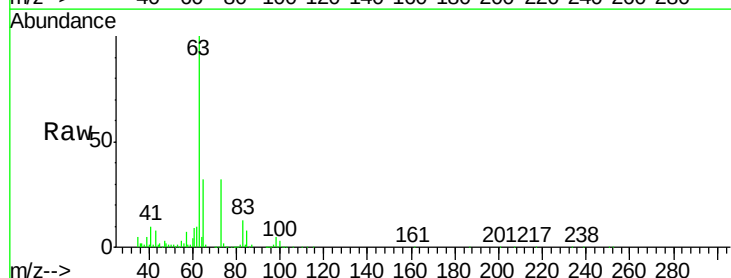
Tgt Ion: 63 Resp: 2343648

Ion Ratio Lower Upper

63 100

98 4.7 2.2 6.6

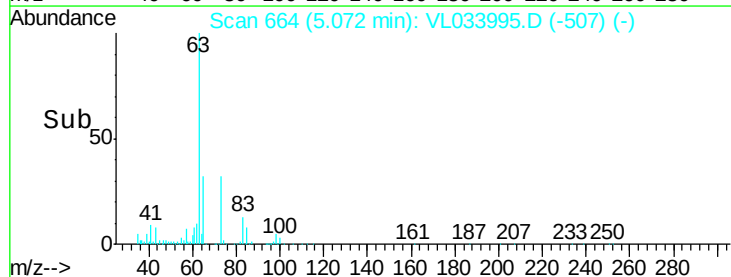
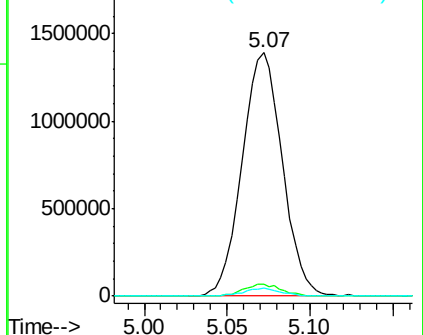
100 3.3 1.4 4.2

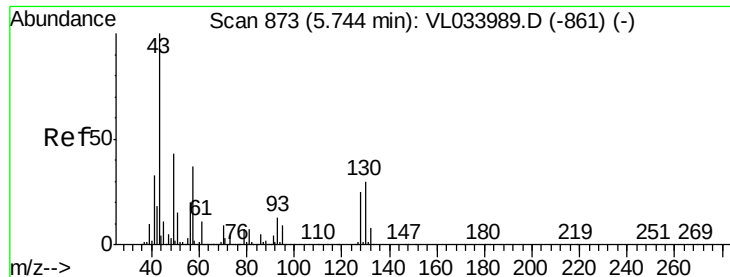


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





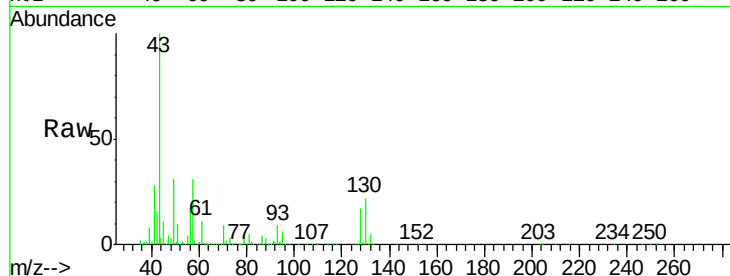
#25
Ethyl Acetate
Concen: 15.275 ppbv
RT: 5.74 min Scan# 873
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.2	8.1	12.1	
61	10.1	8.1	12.1	
70	8.1	6.3	9.5	

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7/3/2019 11:03:34 PM



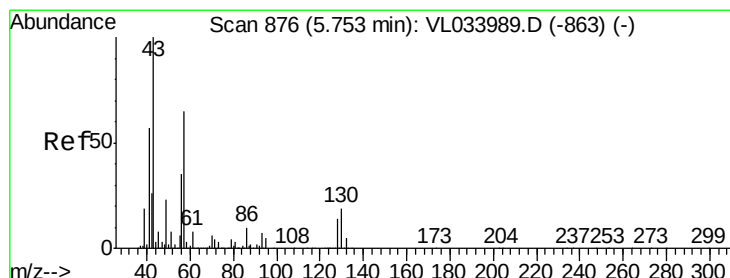
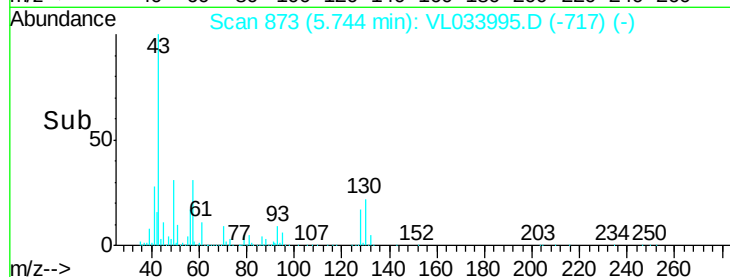
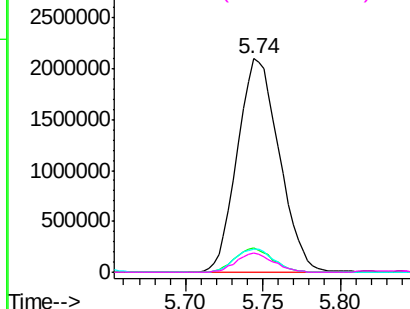
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 15.563 ppbv
RT: 5.76 min Scan# 877
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	85.5	70.6	105.8	
43	217.1	177.6	266.4	
56	51.5	42.6	64.0	

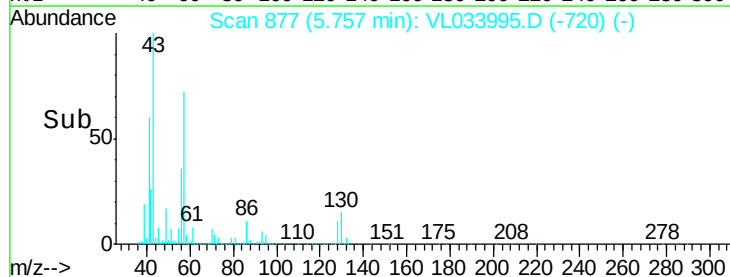
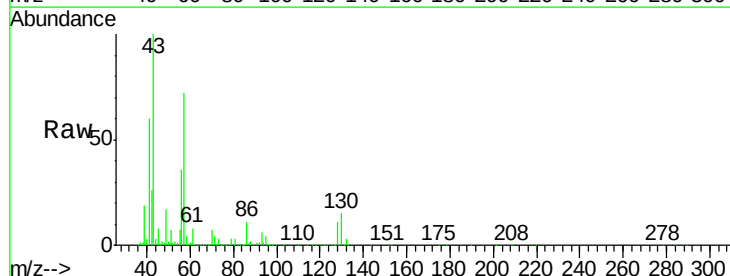
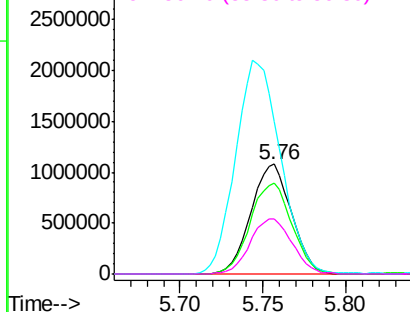
Abundance

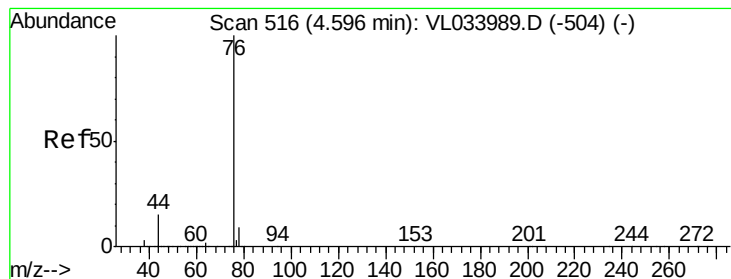
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 24.909 ppbv

RT: 4.60 min Scan# 517

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 4071405

Ion Ratio Lower Upper

76 100

44 15.9 12.6 18.8

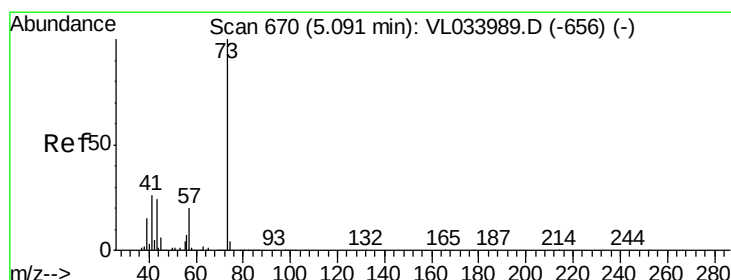
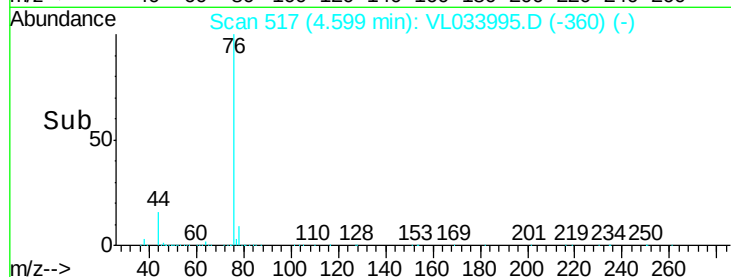
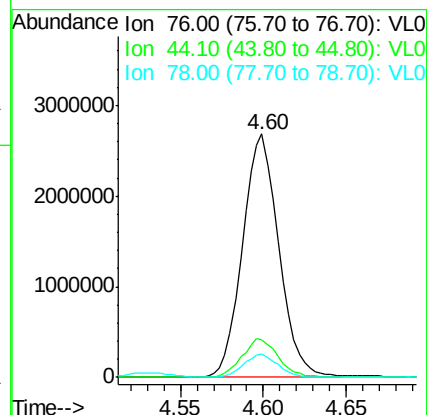
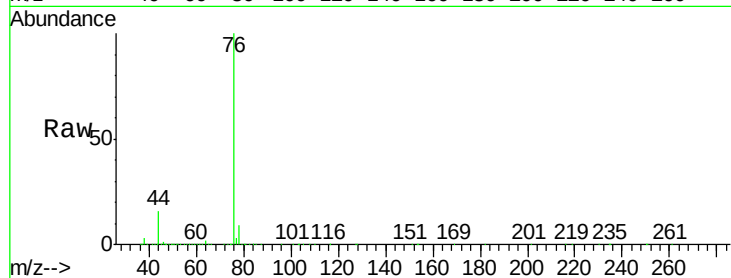
78 9.4 7.2 10.8

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#28

Methyl tert-Butyl Ether

Concen: 17.048 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033995.D

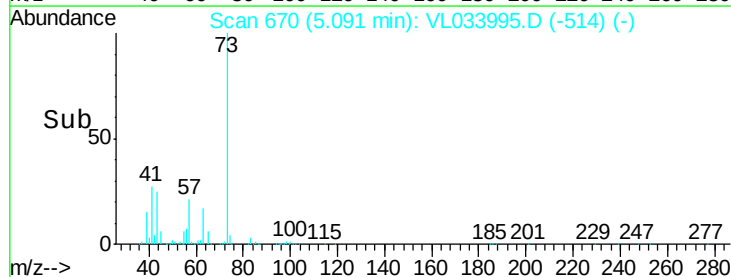
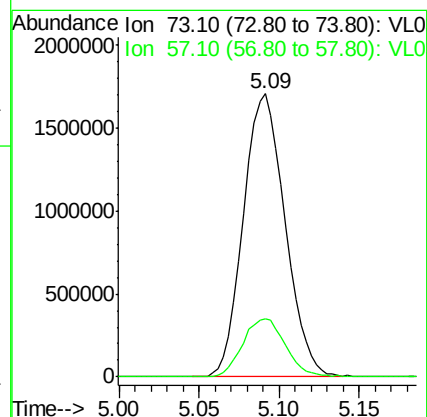
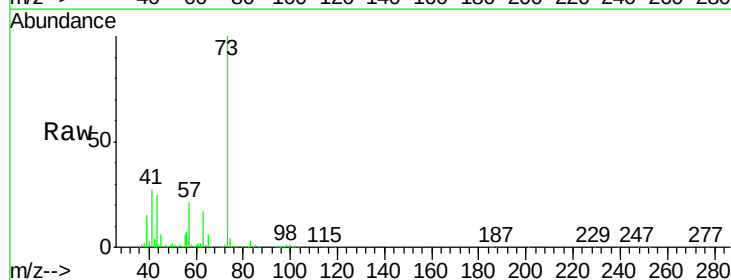
Acq: 2 Jul 2019 17:30

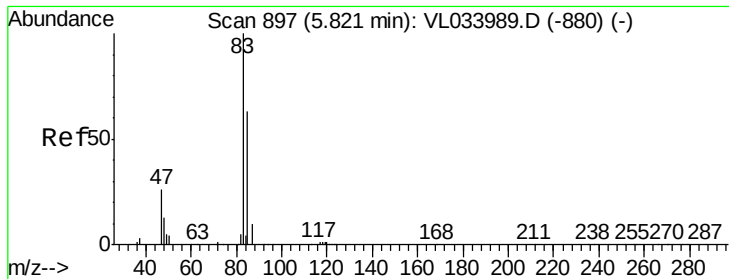
Tgt Ion: 73 Resp: 3032956

Ion Ratio Lower Upper

73 100

57 21.2 16.9 25.3





#29

Chloroform

Concen: 15.409 ppbv

RT: 5.83 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 3104941

Ion Ratio Lower Upper

83 100

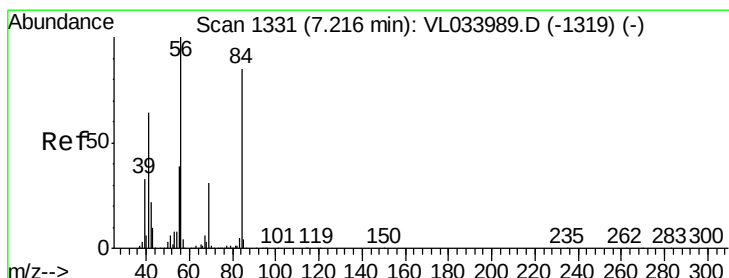
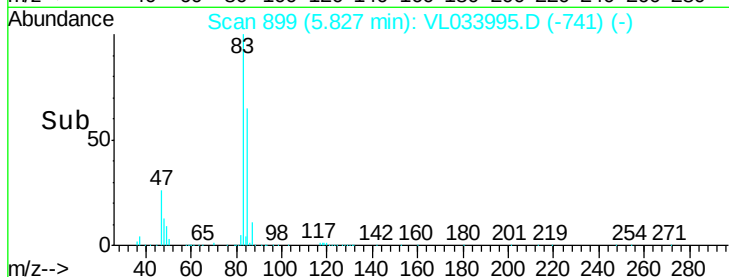
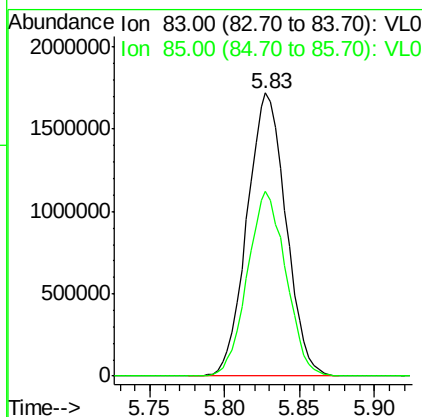
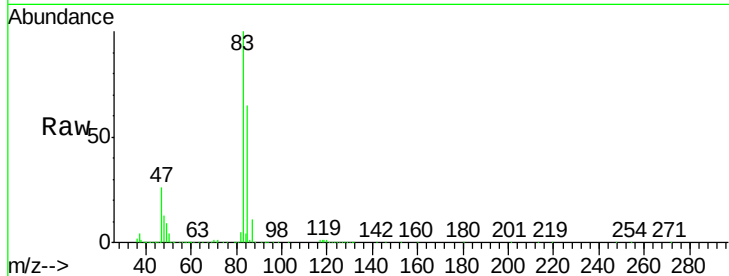
85 65.2 50.6 75.8

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7/3/2019 11:03:34 PM



#30

Cyclohexane

Concen: 18.235 ppbv

RT: 7.22 min Scan# 1332

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

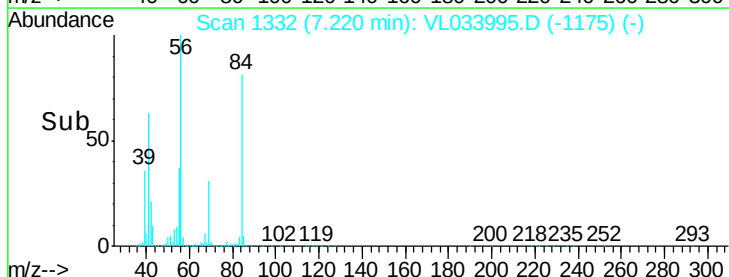
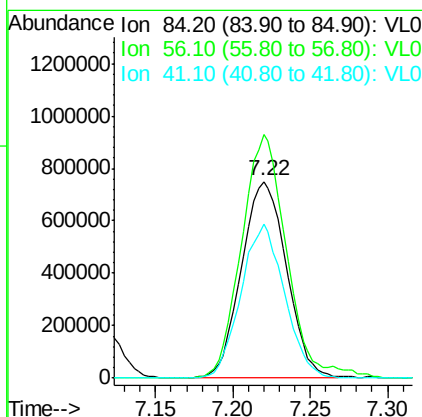
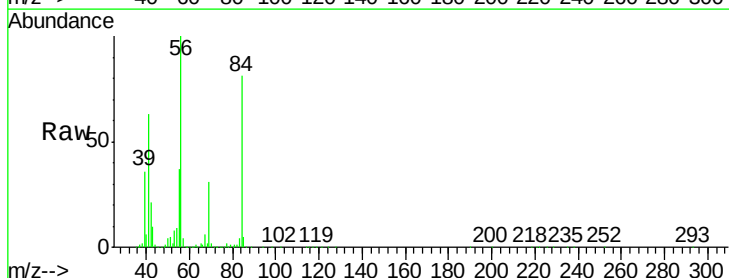
Tgt Ion: 84 Resp: 1515771

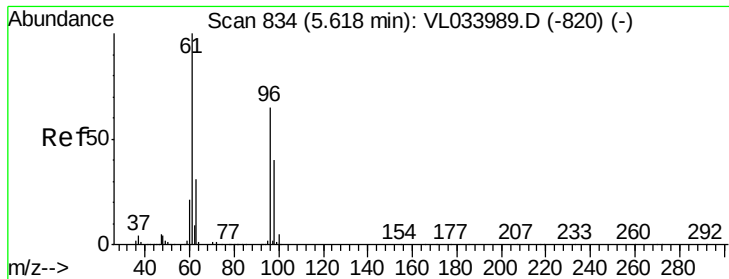
Ion Ratio Lower Upper

84 100

56 124.9 103.7 155.5

41 75.9 62.6 94.0





#31

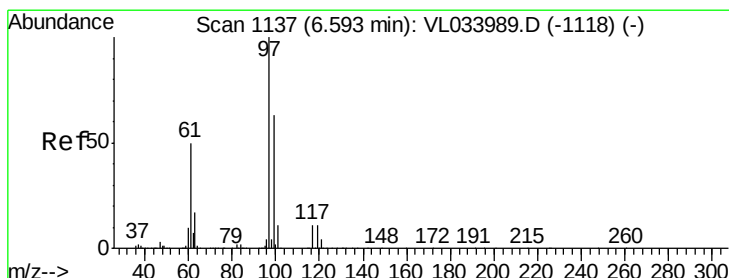
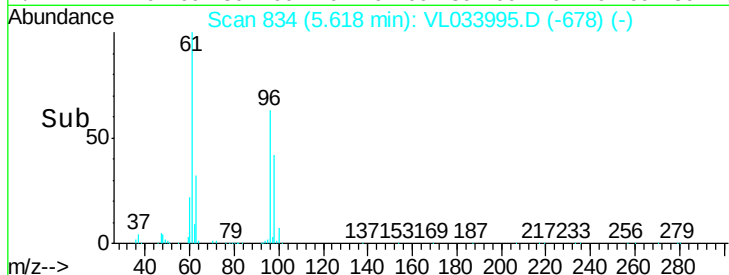
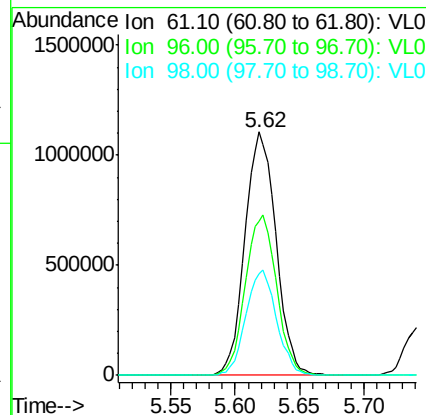
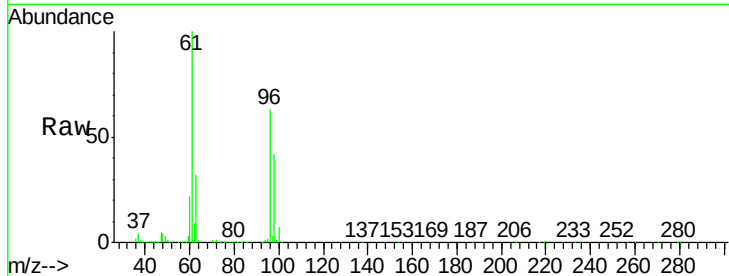
cis-1,2-Dichloroethene
 Concen: 18.059 ppbv
 RT: 5.62 min Scan# 834
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.1	51.8	77.6
98	41.9	32.1	48.1

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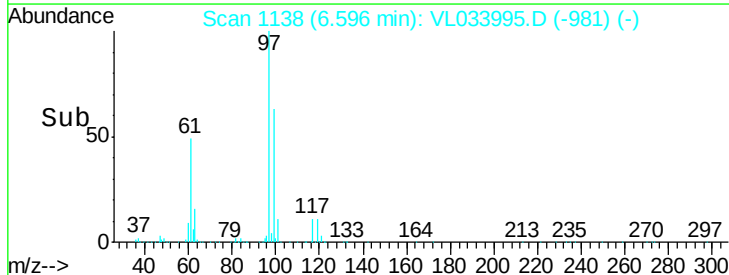
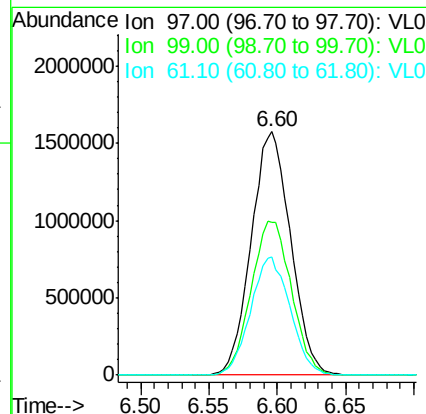
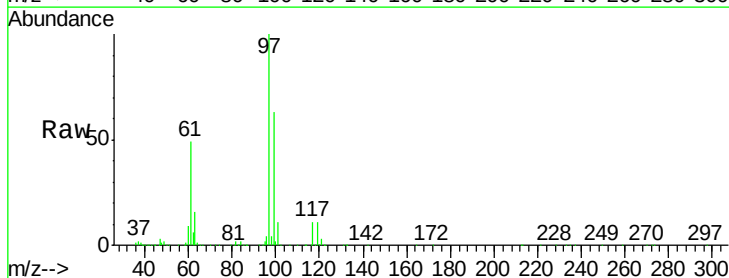
MMDadoda
 7/3/2019 11:03:34 PM

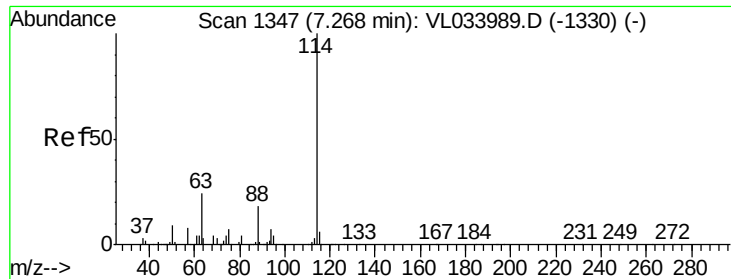


#32

1,1,1-Trichloroethane
 Concen: 16.263 ppbv
 RT: 6.60 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.9	77.9
61	48.7	39.8	59.8





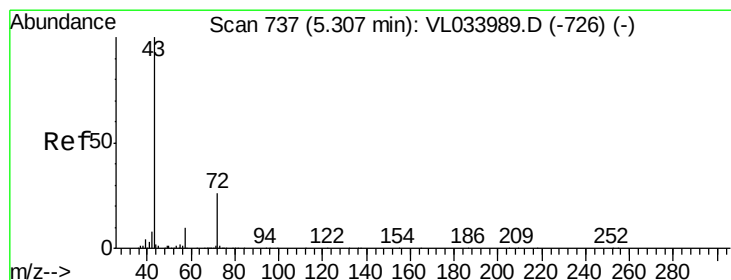
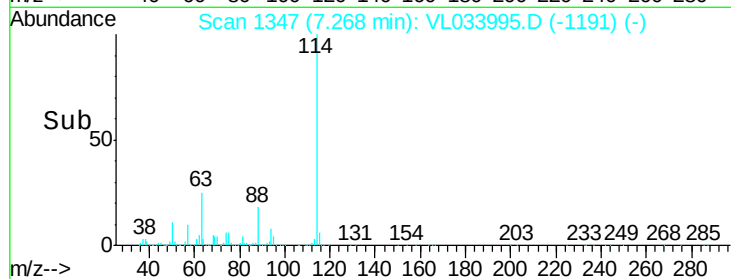
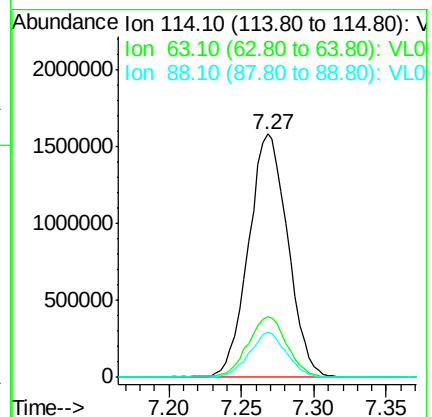
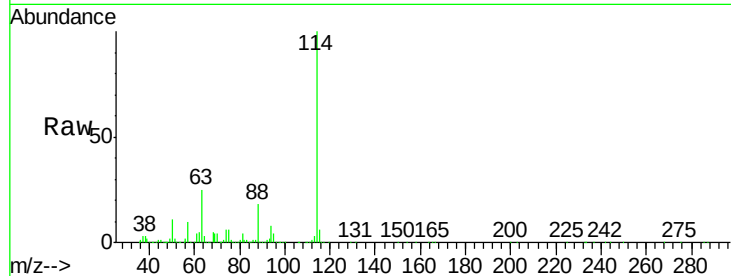
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.27 min Scan# 1347
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.6	20.2	30.2
88	17.6	14.1	21.1

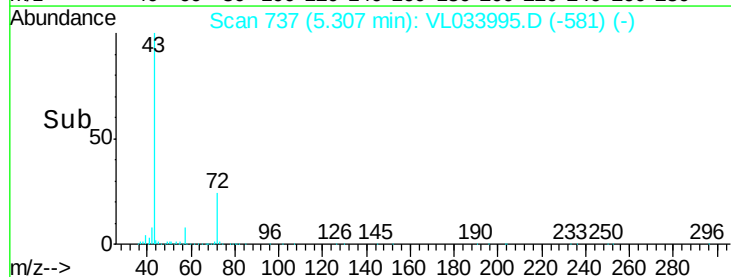
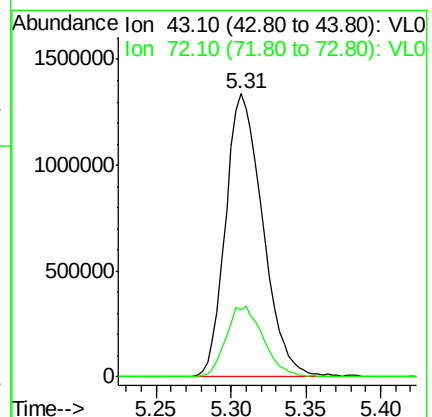
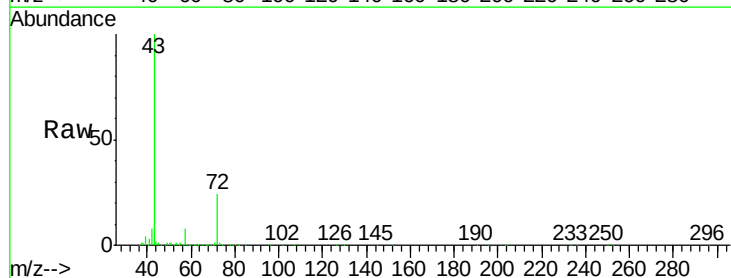
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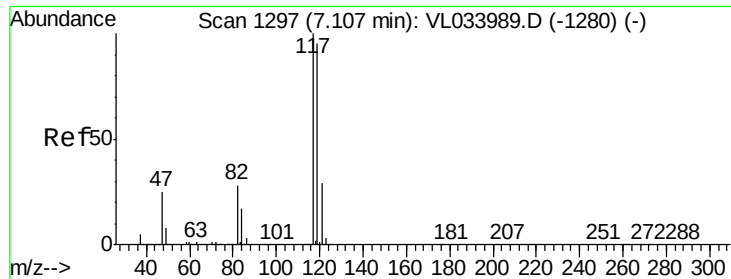
MMDadoda
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#34
 2-Butanone
 Concen: 13.761 ppbv
 RT: 5.31 min Scan# 737
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.2	19.9	29.9





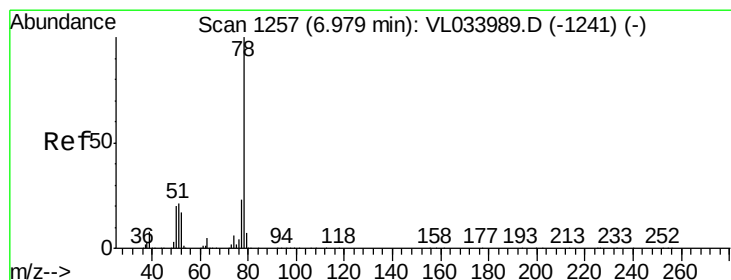
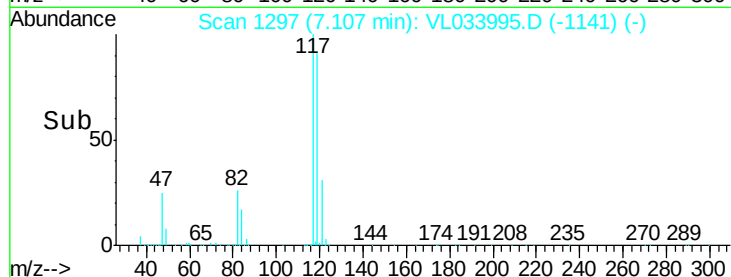
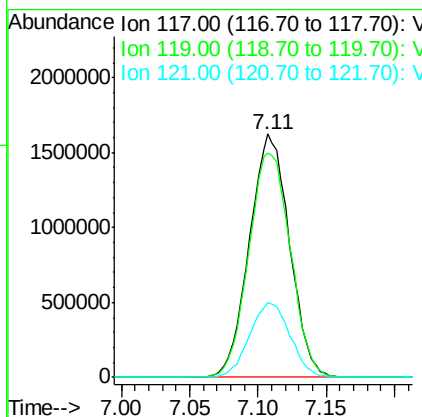
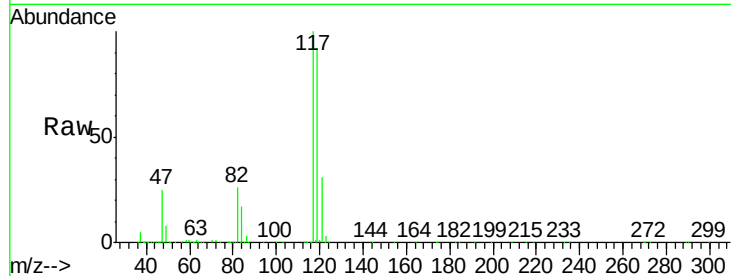
#35
Carbon Tetrachloride
Concen: 14.402 ppbv
RT: 7.11 min Scan# 1297
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
117	100		
119	92.3	75.8	113.6
121	30.6	23.4	35.2

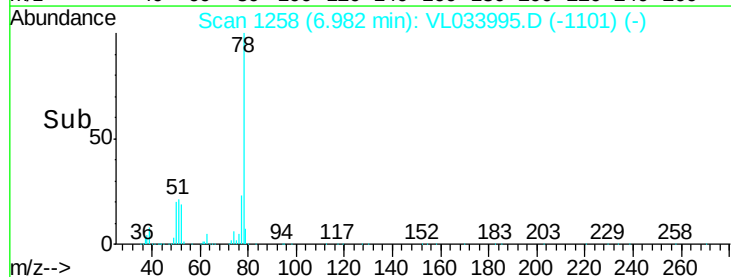
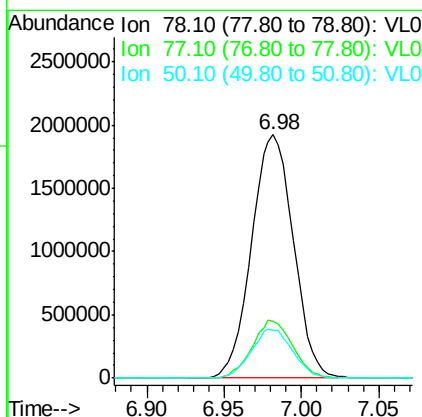
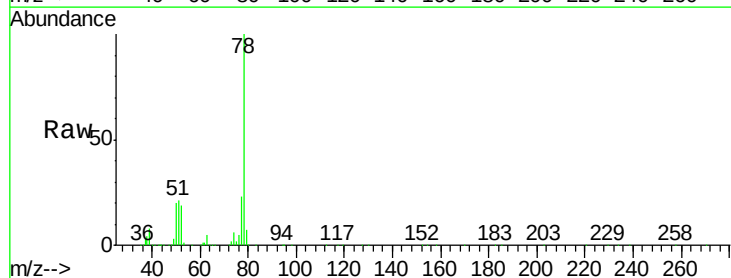
Manual Integrations
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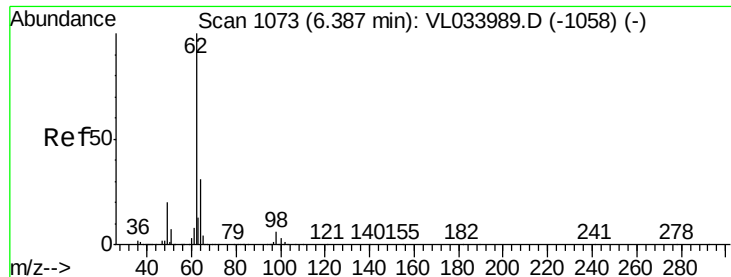
MMDadoda
7/3/2019 11:03:34 PM



#36
Benzene
Concen: 15.924 ppbv
RT: 6.98 min Scan# 1258
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.7	28.1
50	19.8	16.2	24.2





#37

1,2-Dichloroethane

Concen: 14.703 ppbv

RT: 6.39 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 2471316

Ion Ratio Lower Upper

62 100

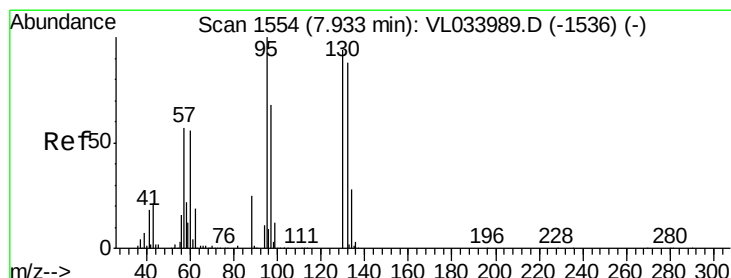
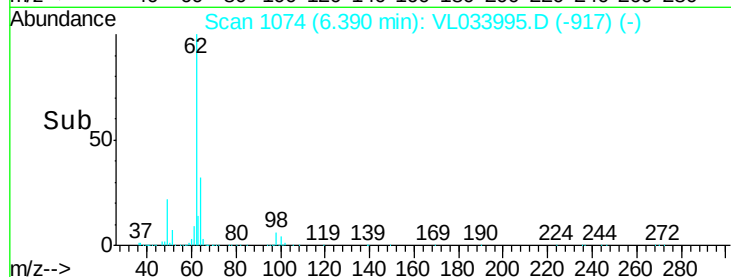
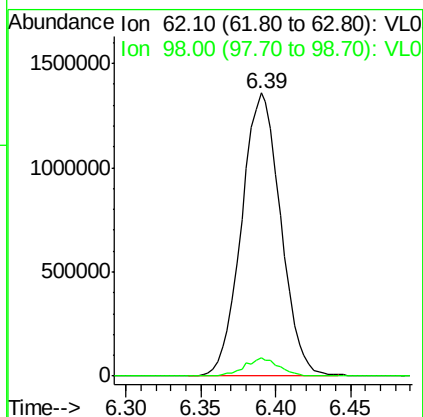
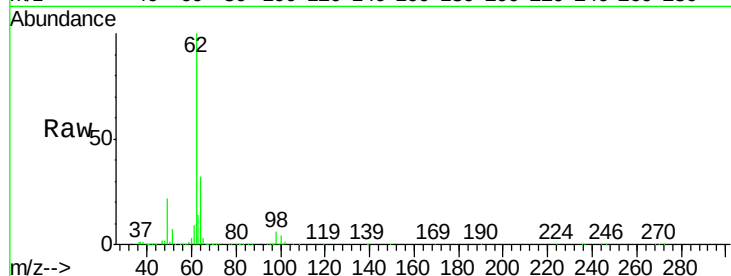
98 5.7 4.4 6.6

Manual Integrations

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7/3/2019 11:03:34 PM



#38

Trichloroethene

Concen: 18.202 ppbv

RT: 7.93 min Scan# 1554

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Tgt Ion:130 Resp: 1610683

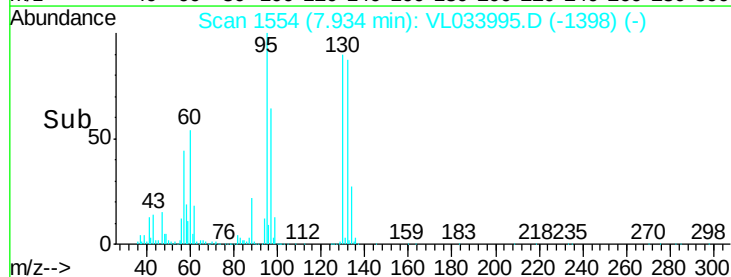
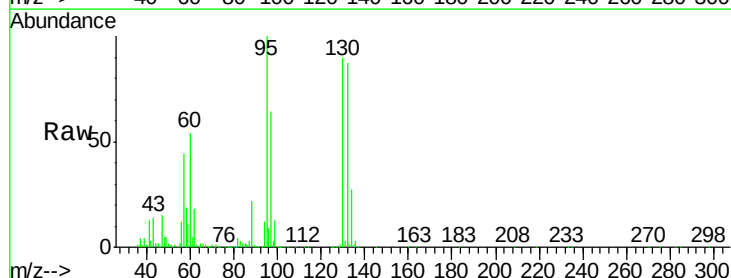
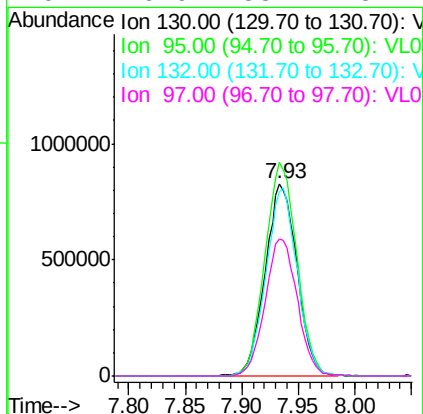
Ion Ratio Lower Upper

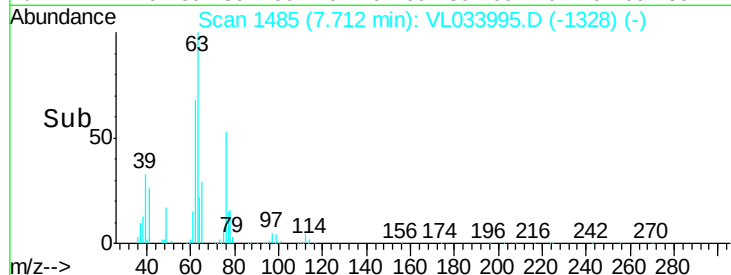
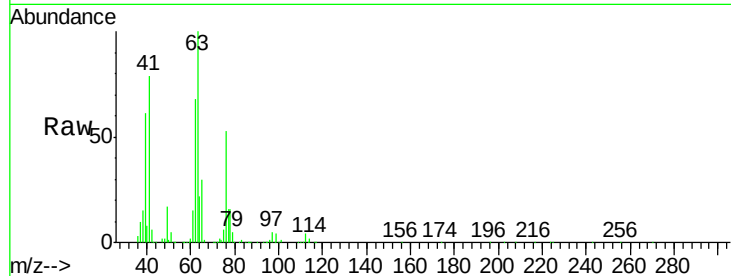
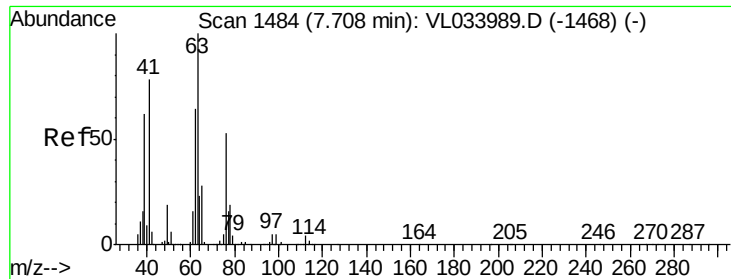
130 100

95 111.1 85.5 128.3

132 96.1 75.1 112.7

97 70.9 58.1 87.1





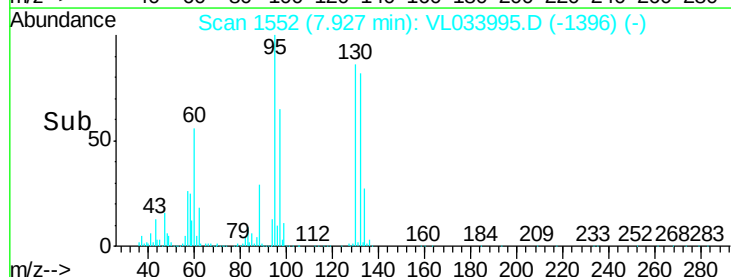
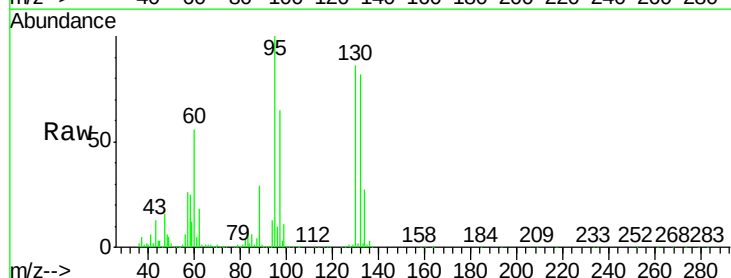
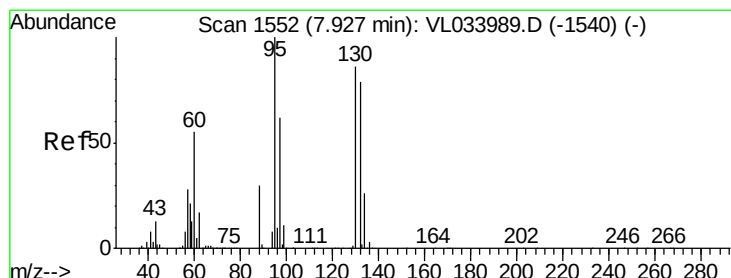
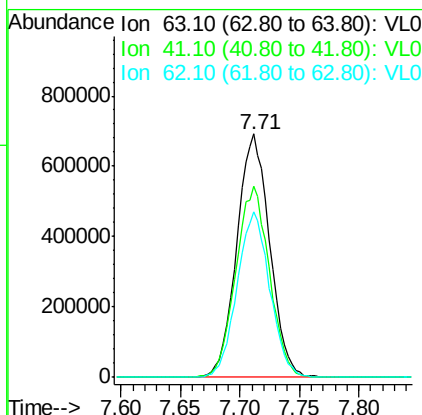
#39
 1,2-Dichloropropane
 Concen: 15.062 ppbv
 RT: 7.71 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Tot Ion	Ratio	Lower	Upper
63	100		
41	78.5	62.3	93.5
62	67.9	51.4	77.2

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

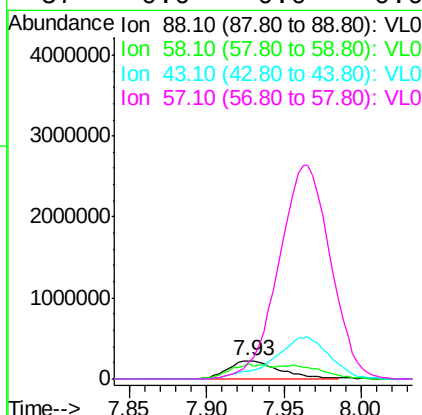
Manual Integrations
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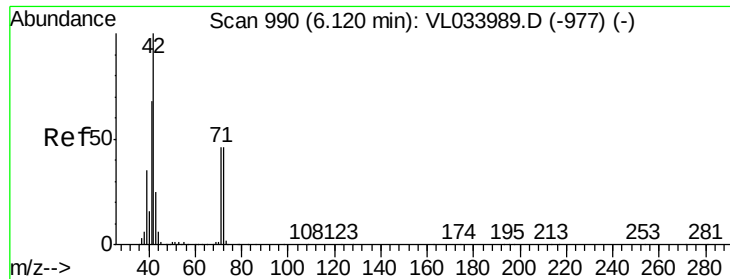
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 7/3/2019 11:03:34 PM



#40
 1,4-Dioxane
 Concen: 14.594 ppbv
 RT: 7.93 min Scan# 1552
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Tgt Ion	Ratio	Lower	Upper
88	100		
58	132.3	99.1	148.7
43	0.0	0.0	0.0
57	0.0	0.0	0.0





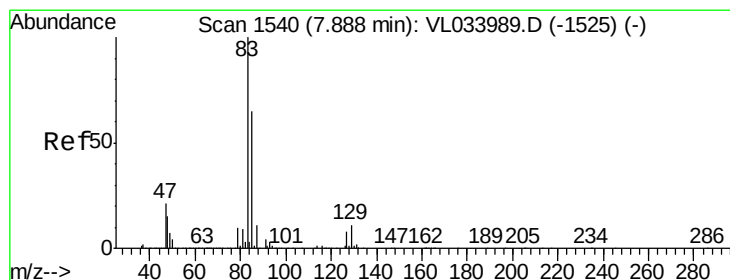
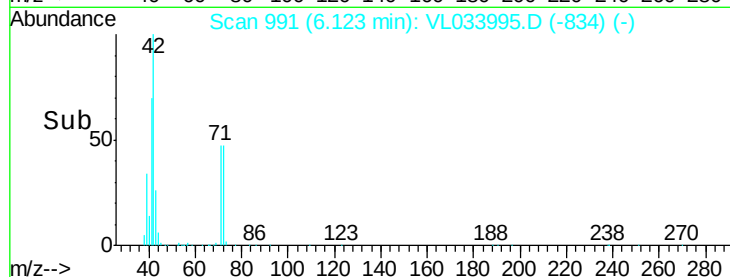
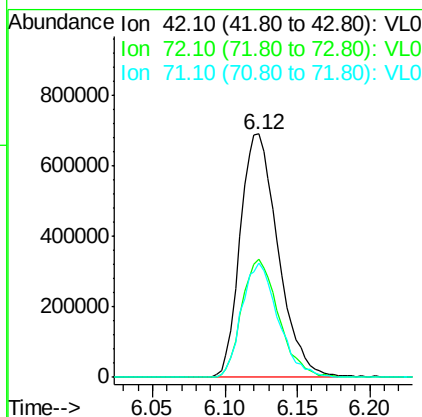
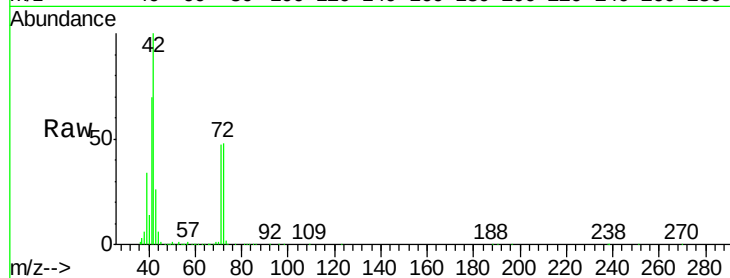
#41
Tetrahydrofuran
Concen: 14.722 ppbv
RT: 6.12 min Scan# 991
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 42 Resp: 1254199
Ion Ratio Lower Upper
42 100
72 47.5 37.3 55.9
71 45.5 36.2 54.2

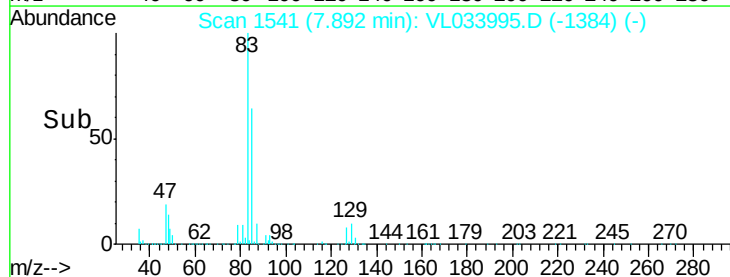
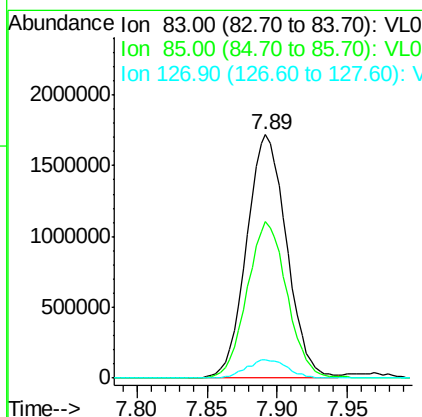
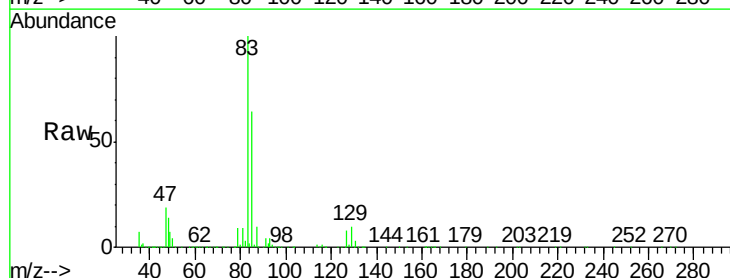
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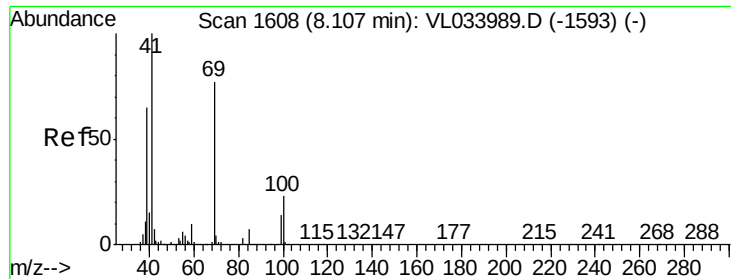
MMDadoda
7/3/2019 11:03:34 PM



#42
Bromodichloromethane
Concen: 15.206 ppbv
RT: 7.89 min Scan# 1541
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Tgt Ion: 83 Resp: 3415524
Ion Ratio Lower Upper
83 100
85 64.1 51.8 77.8
127 7.6 6.5 9.7





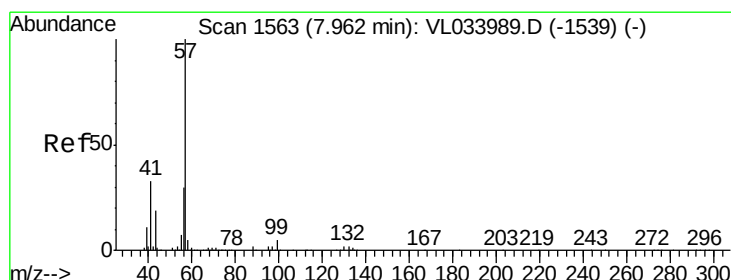
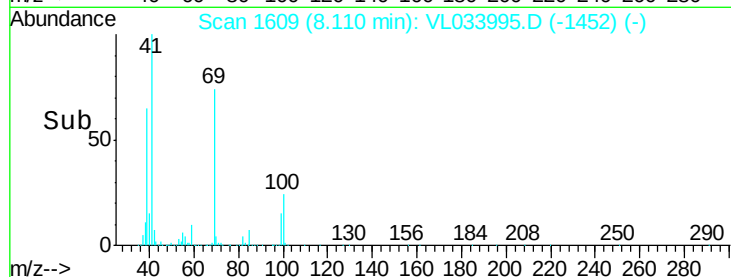
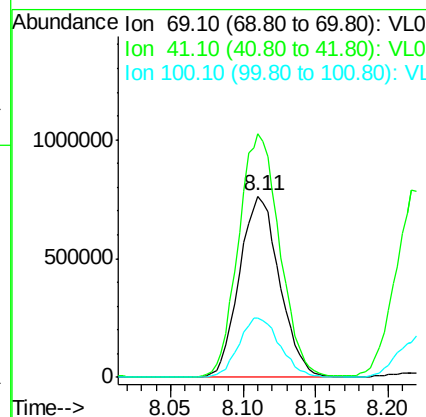
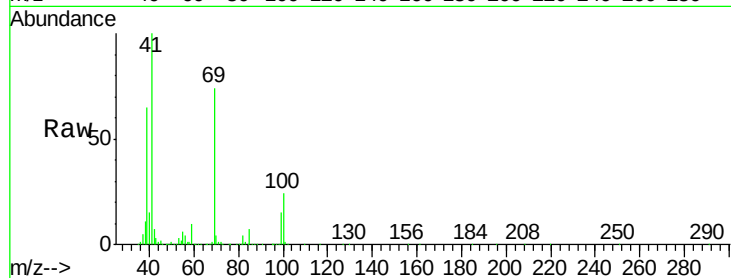
#43
Methyl Methacrylate
Concen: 17.316 ppbv
RT: 8.11 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1471861
Ion Ratio Lower Upper
69 100
41 137.2 109.1 163.7
100 33.6 25.3 37.9

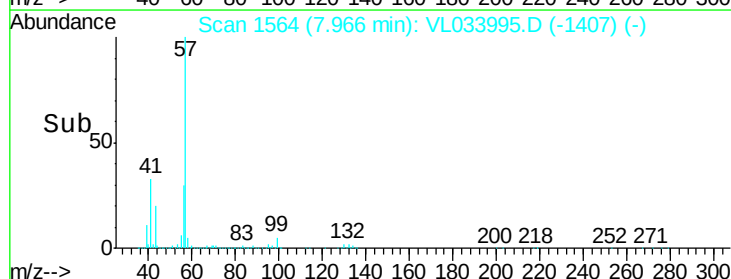
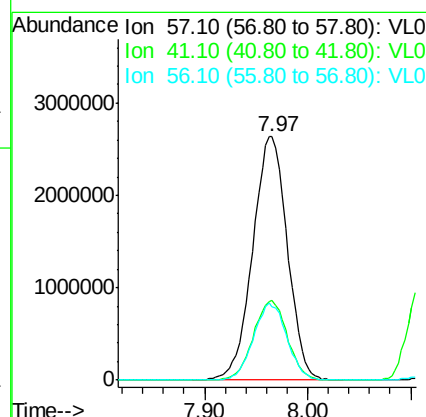
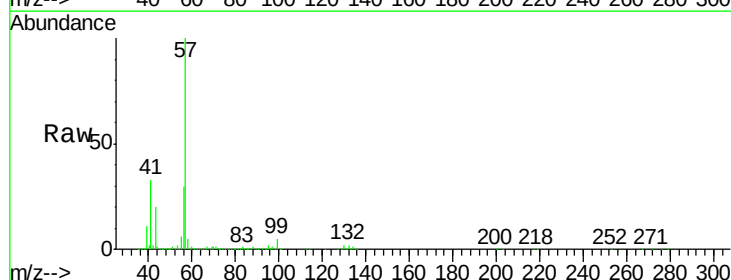
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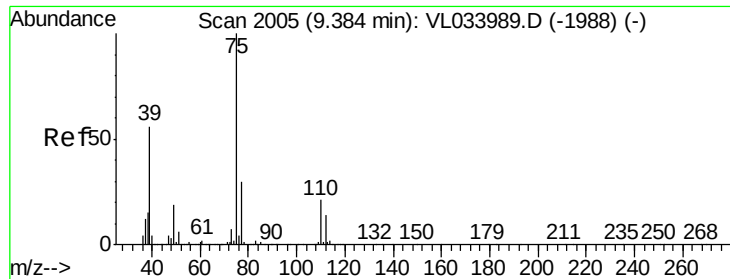
MMDadoda
7/3/2019 11:03:34 PM



#44
2,2,4-Trimethylpentane
Concen: 15.217 ppbv
RT: 7.97 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Tgt Ion: 57 Resp: 6150240
Ion Ratio Lower Upper
57 100
41 32.0 26.1 39.1
56 30.5 24.4 36.6





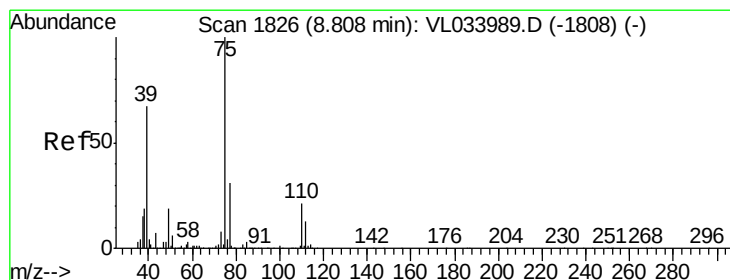
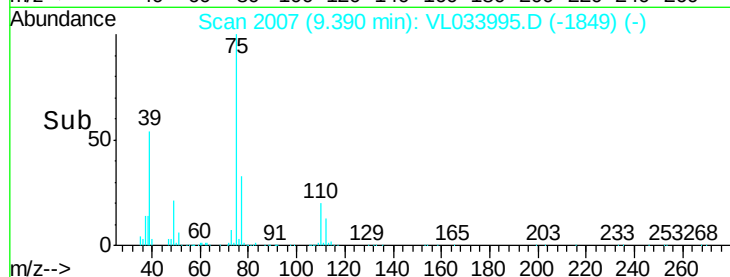
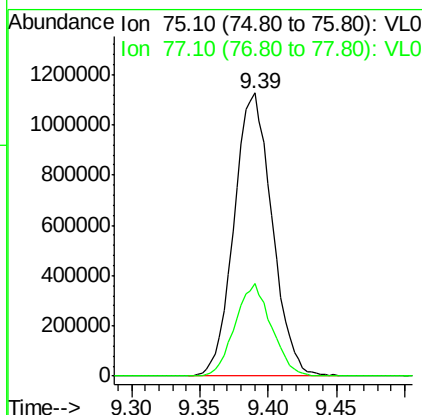
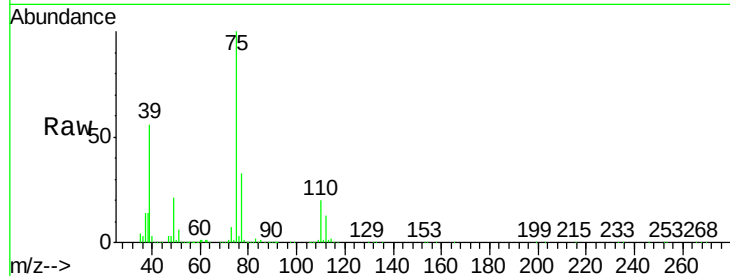
#45
t-1,3-Dichloropropene
Concen: 19.503 ppbv
RT: 9.39 min Scan# 2007
Delta R.T. 0.01 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 75 Resp: 2175185
Ion Ratio Lower Upper
75 100
77 32.9 24.3 36.5

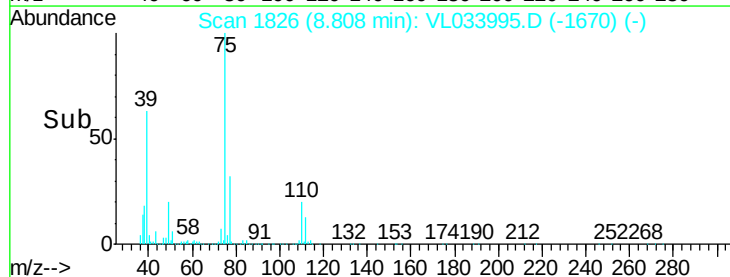
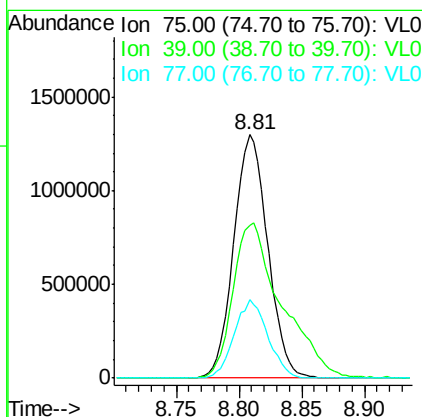
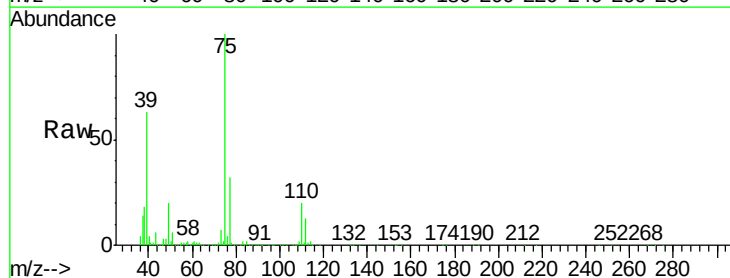
Manual Integrations
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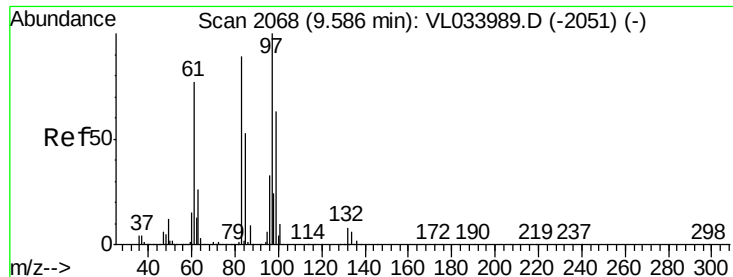
MMDadoda
7/3/2019 11:03:34 PM



#46
cis-1,3-Dichloropropene
Concen: 19.111 ppbv
RT: 8.81 min Scan# 1826
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Tgt Ion: 75 Resp: 2442028
Ion Ratio Lower Upper
75 100
39 62.8 53.8 80.6
77 32.1 24.5 36.7





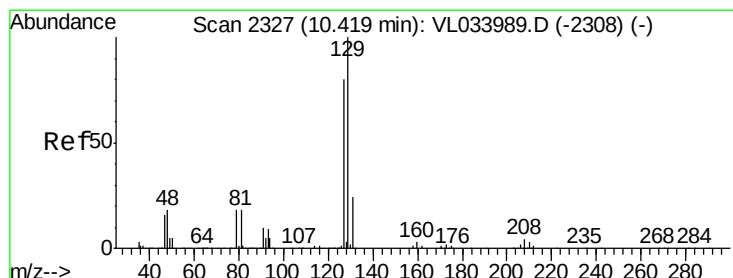
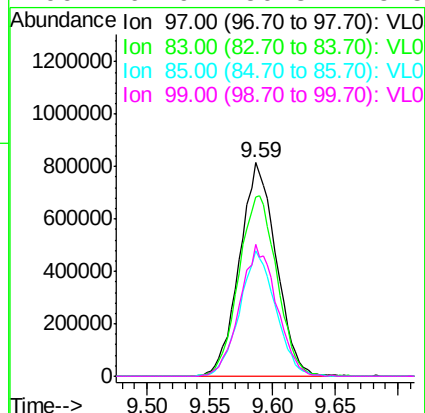
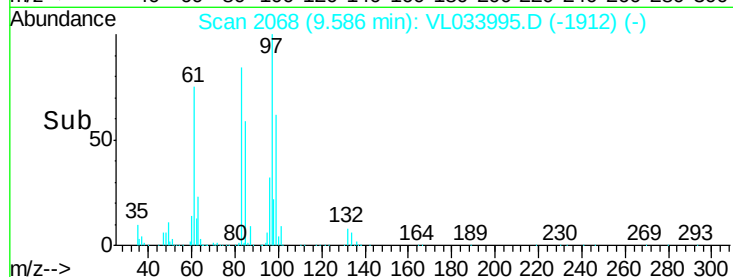
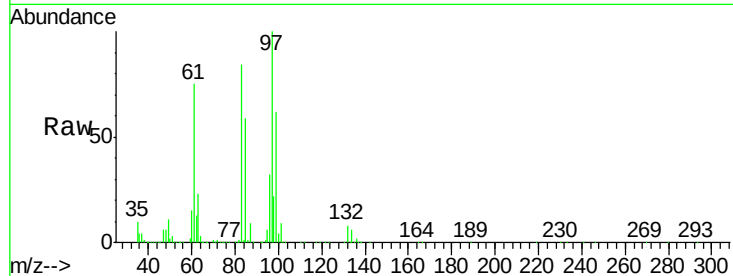
#47
 1,1,2-Trichloroethane
 Concen: 15.822 ppbv
 RT: 9.59 min Scan# 2068
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	84.1	71.1	106.7	
85	58.9	42.6	64.0	
99	61.9	50.3	75.5	

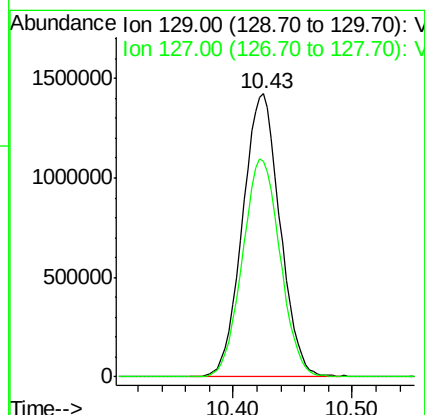
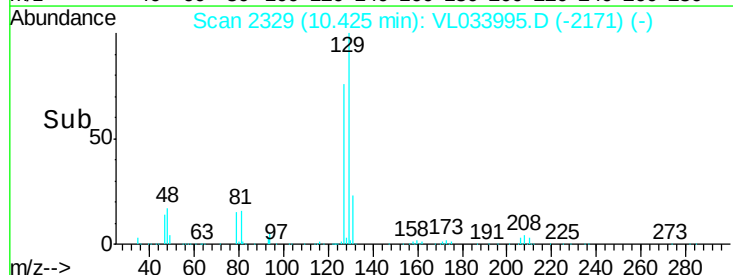
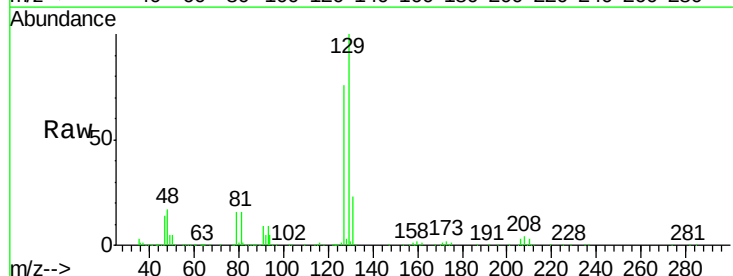
Manual Integrations
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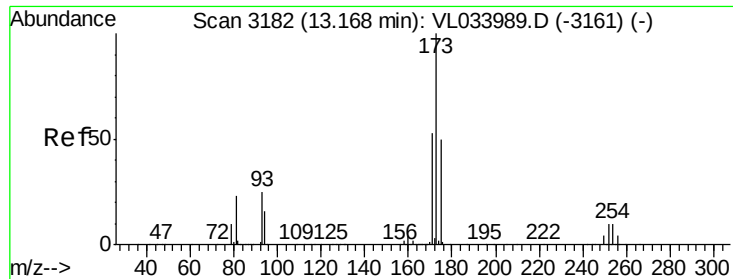
MMDadoda
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#48
 Dibromochloromethane
 Concen: 16.470 ppbv
 RT: 10.43 min Scan# 2329
 Delta R.T. 0.01 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.8	39.1	117.3	





#49

Bromoform

Concen: 16.761 ppbv

RT: 13.17 min Scan# 3184

Delta R.T. 0.01 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2780425

Ion Ratio Lower Upper

173 100

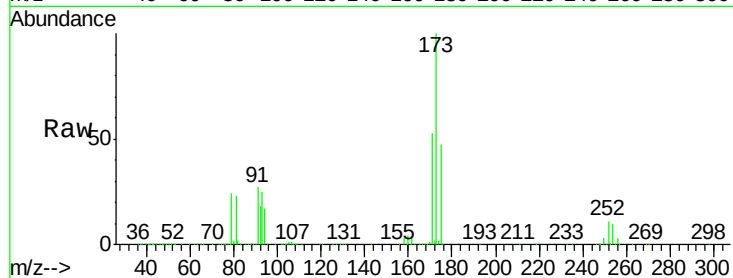
175 49.4 39.3 58.9

171 52.3 41.4 62.0

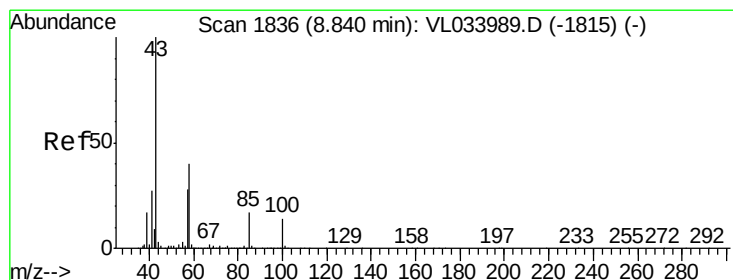
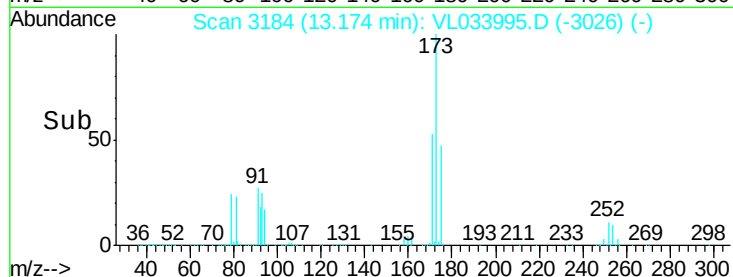
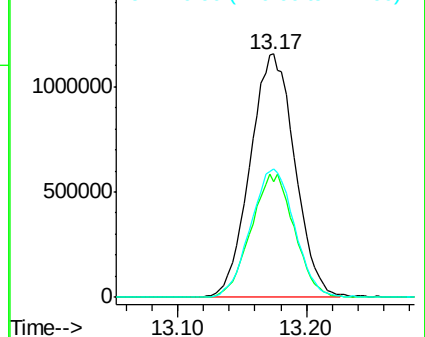
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7/3/2019 11:03:34 PM



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 15.239 ppbv

RT: 8.84 min Scan# 1836

Delta R.T. 0.00 min

Lab File: VL033995.D

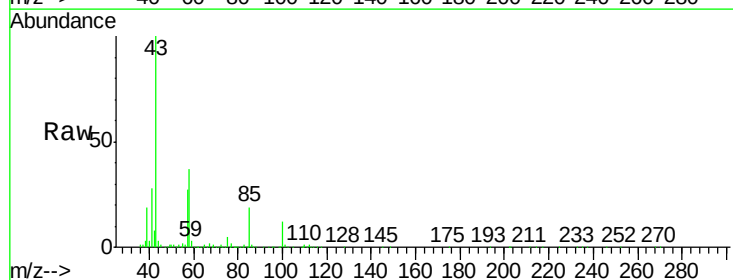
Acq: 2 Jul 2019 17:30

Tgt Ion: 43 Resp: 3814151

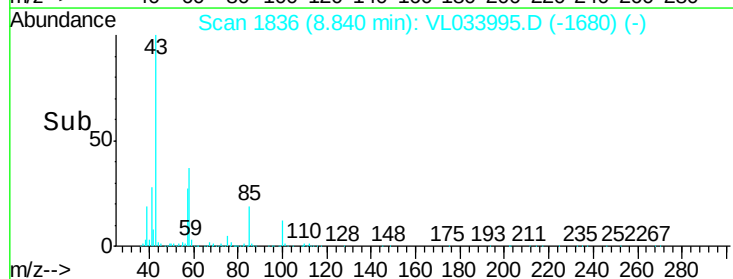
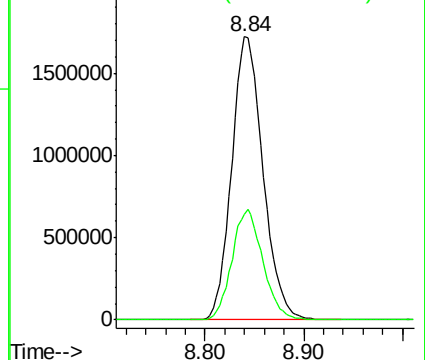
Ion Ratio Lower Upper

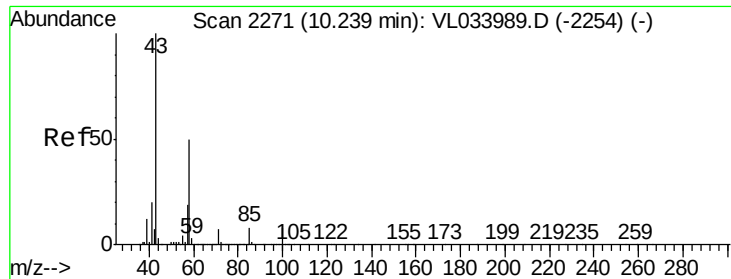
43 100

58 38.5 30.3 45.5



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





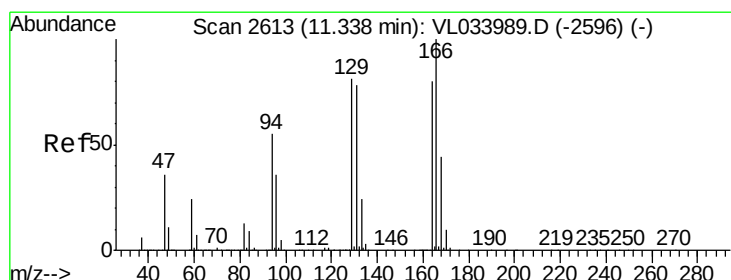
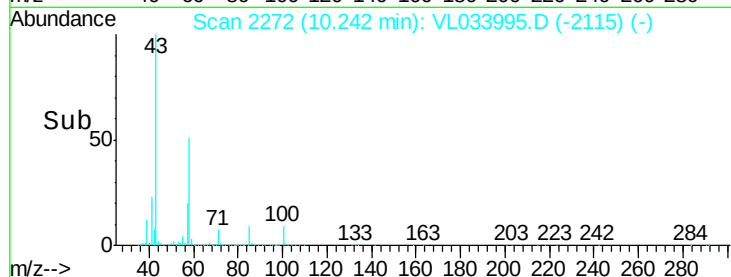
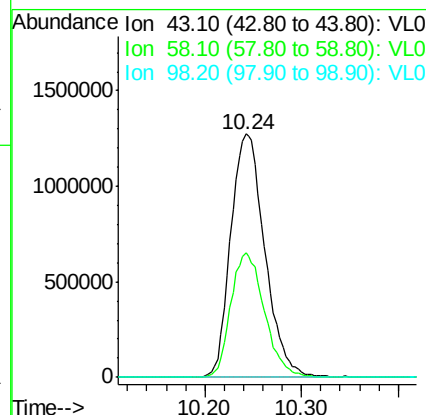
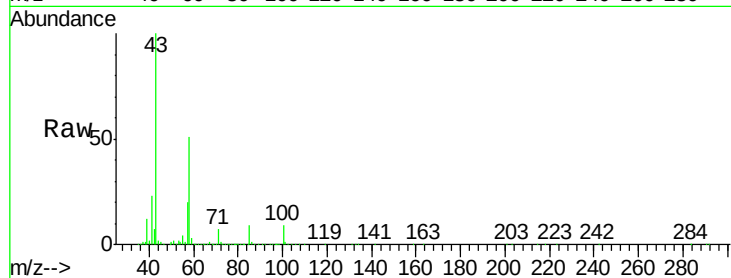
#51
2-Hexanone
Concen: 15.931 ppbv
RT: 10.24 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 3113721
Ion Ratio Lower Upper
43 100
58 50.5 41.0 61.4
98 0.2 0.2 0.2#

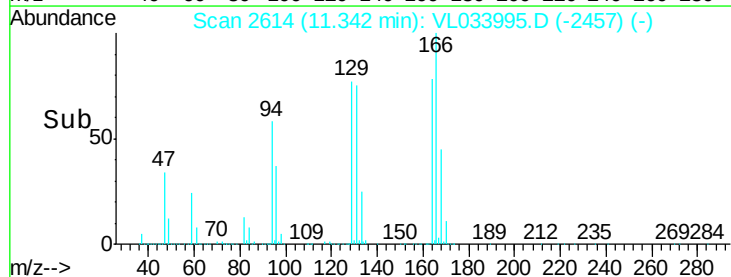
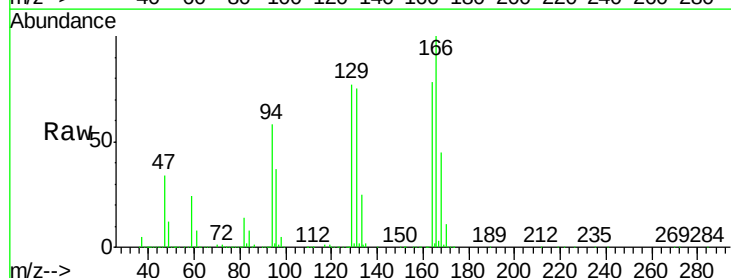
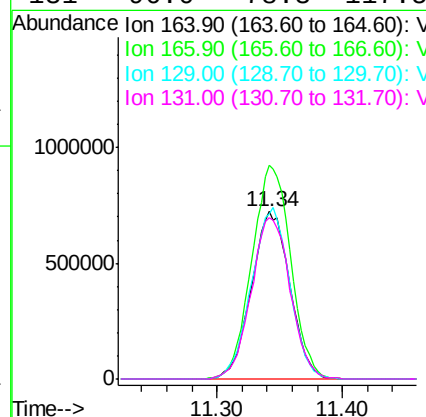
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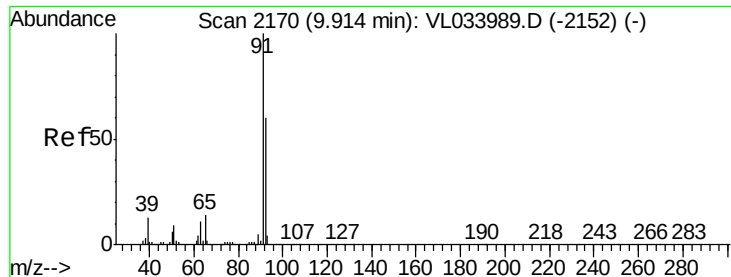
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7/3/2019 11:03:34 PM



#52
Tetrachloroethene
Concen: 19.350 ppbv
RT: 11.34 min Scan# 2614
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Tgt Ion: 164 Resp: 1547389
Ion Ratio Lower Upper
164 100
166 127.5 100.2 150.2
129 98.3 81.0 121.6
131 96.0 78.3 117.5





#53

Toluene

Concen: 18.232 ppbv

RT: 9.92 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4585412

Ion Ratio Lower Upper

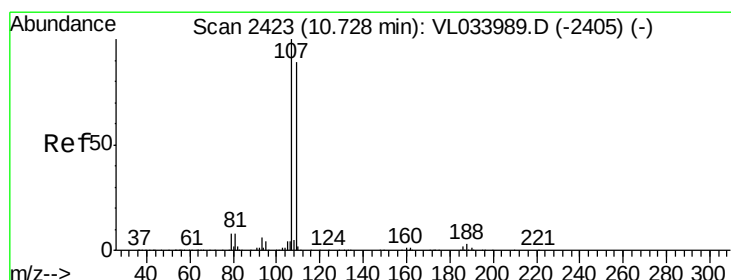
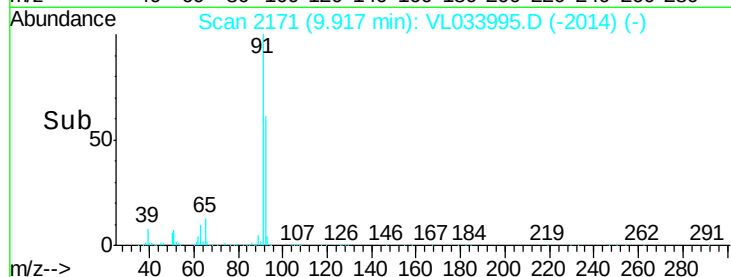
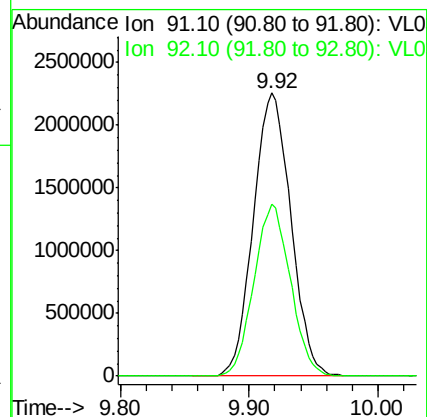
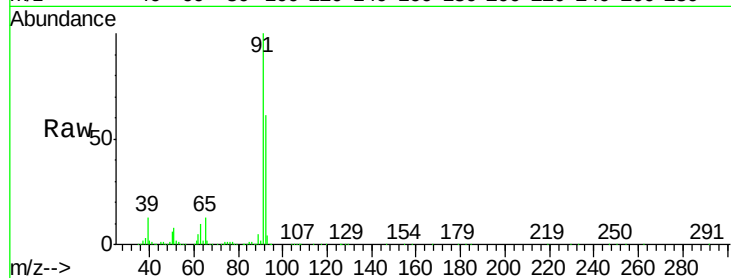
91 100

92 59.2 47.7 71.5

Manual Integrations
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7/3/2019 11:03:34 PM



#54

1,2-Dibromoethane

Concen: 16.359 ppbv

RT: 10.73 min Scan# 2425

Delta R.T. 0.01 min

Lab File: VL033995.D

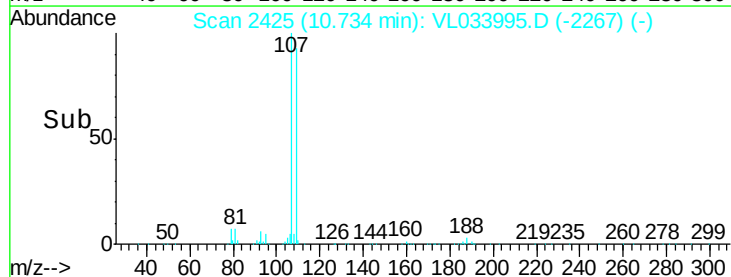
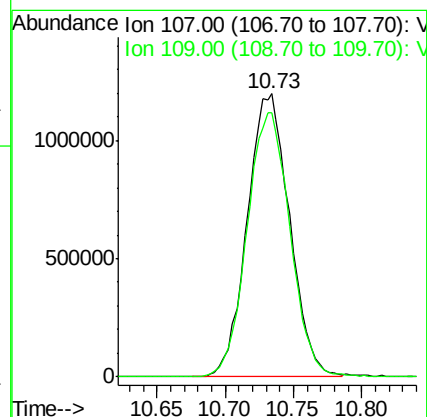
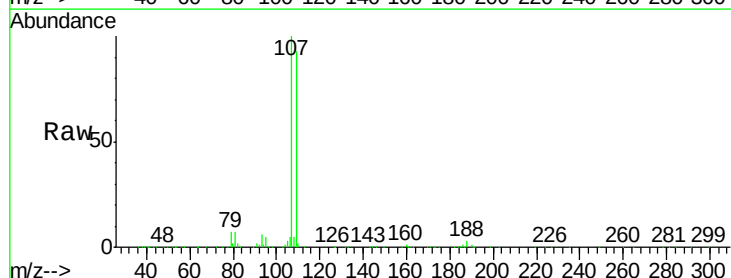
Acq: 2 Jul 2019 17:30

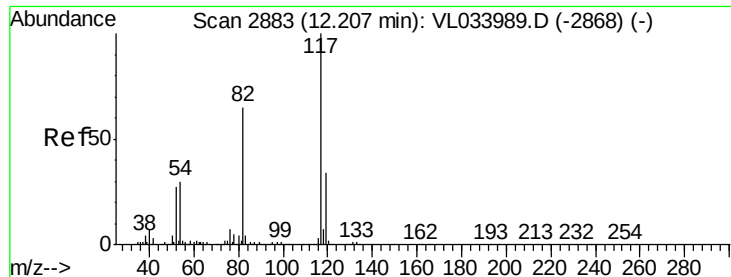
Tgt Ion: 107 Resp: 2578639

Ion Ratio Lower Upper

107 100

109 93.2 71.5 107.3





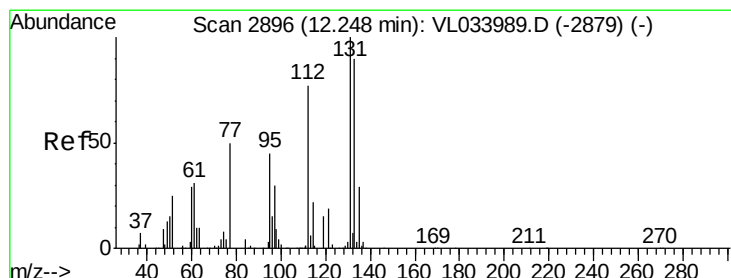
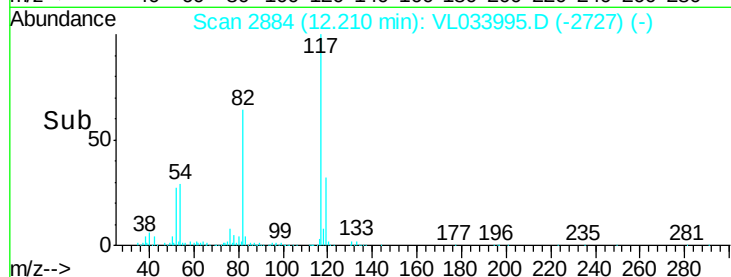
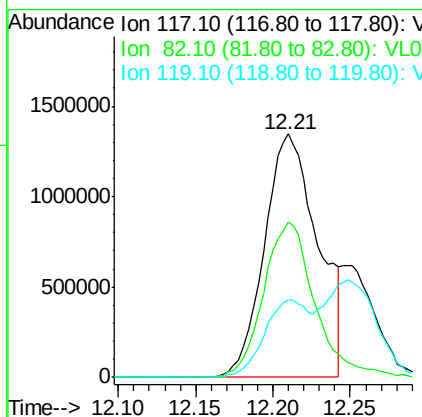
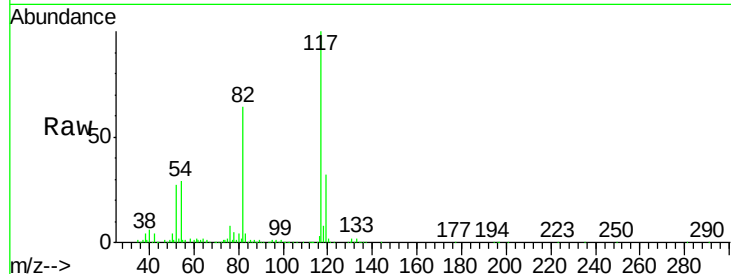
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.21 min Scan# 2884
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 3230775
Ion Ratio Lower Upper
117 100
82 61.9 50.8 76.2
119 0.0 24.0 36.0#

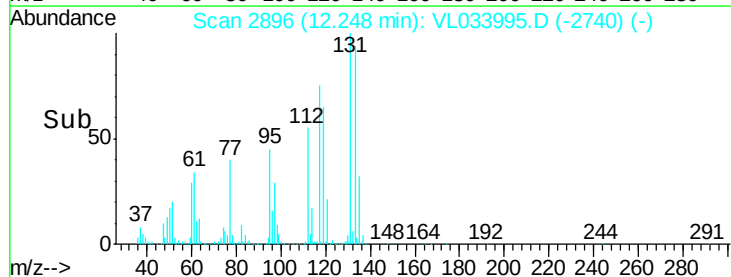
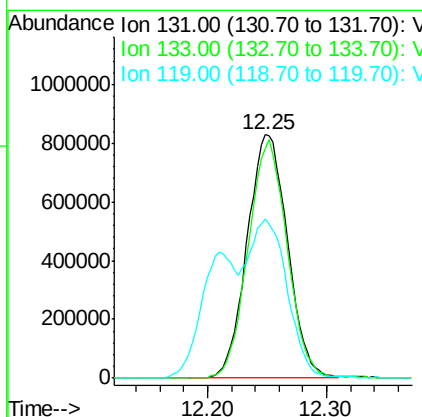
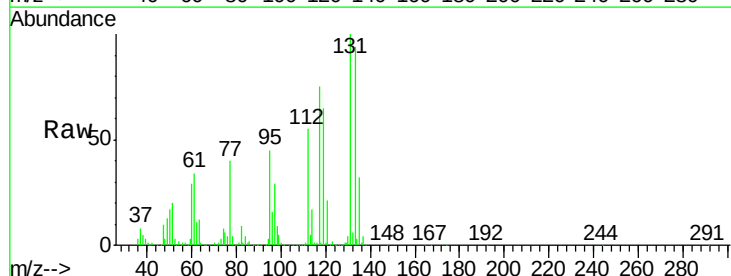
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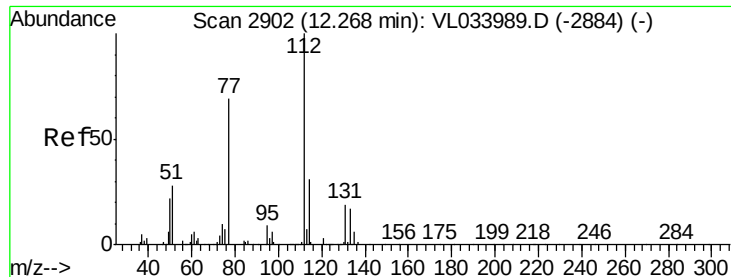
MMDadoda
7/3/2019 11:03:34 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 13.769 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Tgt Ion:131 Resp: 1943255
Ion Ratio Lower Upper
131 100
133 94.9 76.2 114.2
119 111.0 43.1 64.7#





#57

Chlorobenzene

Concen: 14.287 ppbv

RT: 12.27 min Scan# 2903

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:112 Resp: 3456974

Ion Ratio Lower Upper

112 100

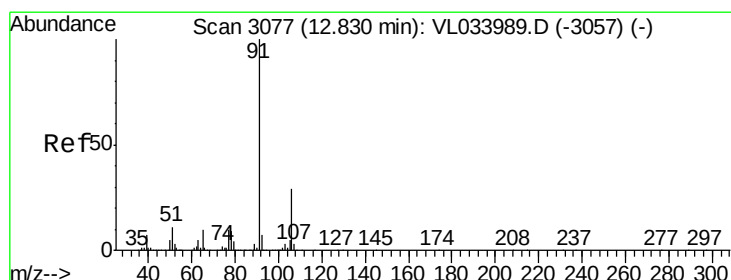
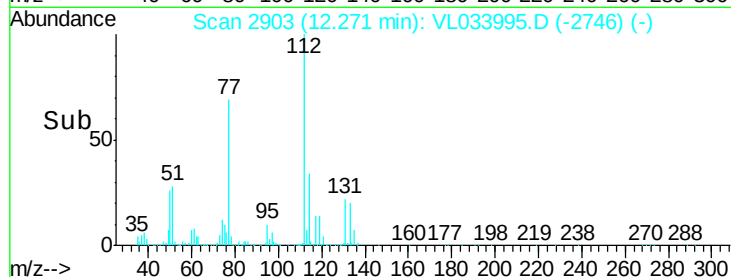
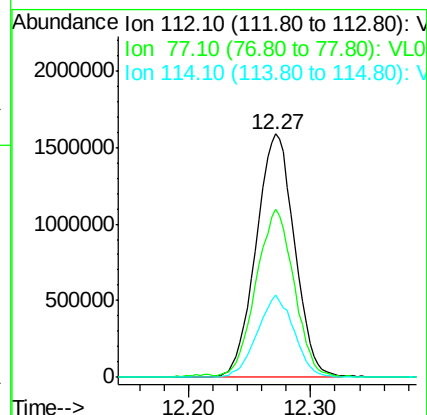
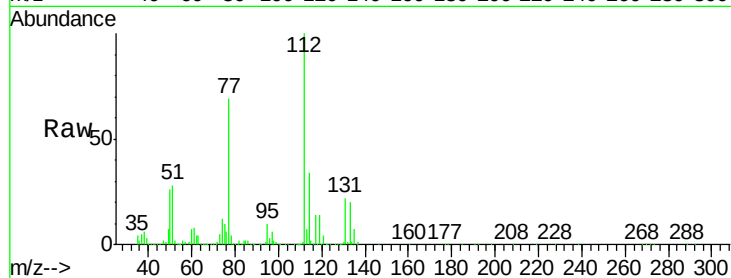
77 68.9 55.9 83.9

114 33.8 27.6 33.8#

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7/3/2019 11:03:34 PM



#58

Ethyl Benzene

Concen: 16.744 ppbv

RT: 12.84 min Scan# 3079

Delta R.T. 0.01 min

Lab File: VL033995.D

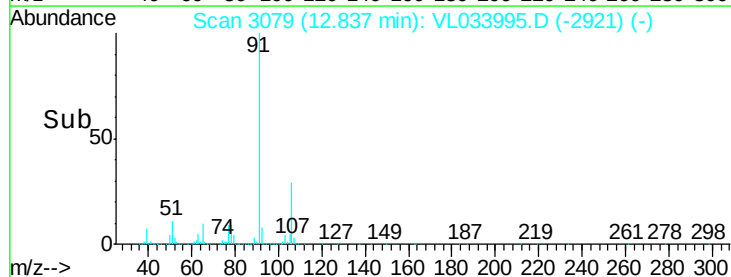
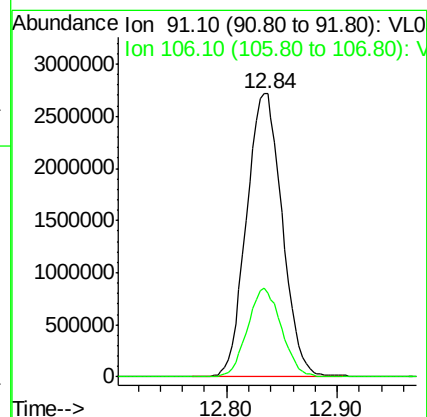
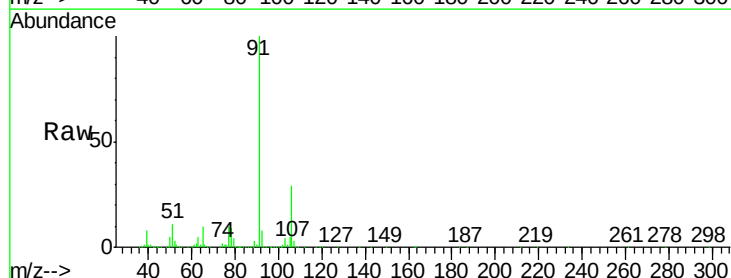
Acq: 2 Jul 2019 17:30

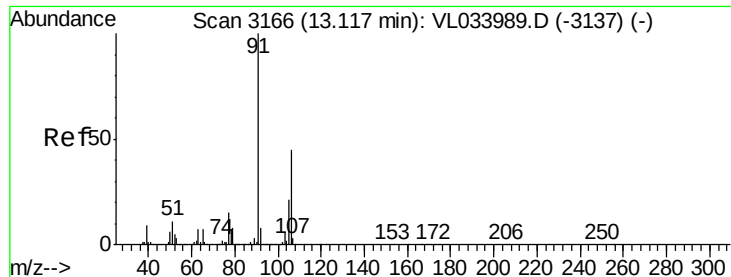
Tgt Ion: 91 Resp: 6098842

Ion Ratio Lower Upper

91 100

106 29.4 23.3 34.9





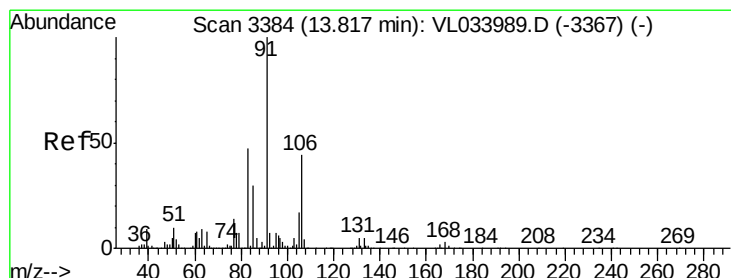
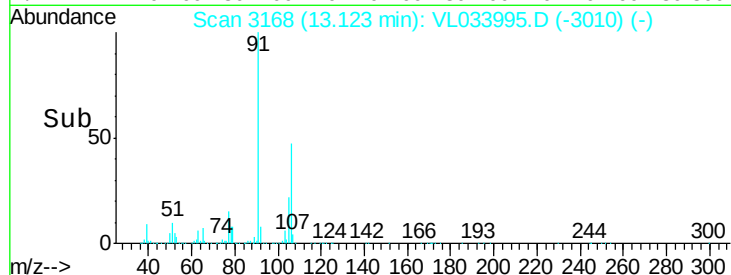
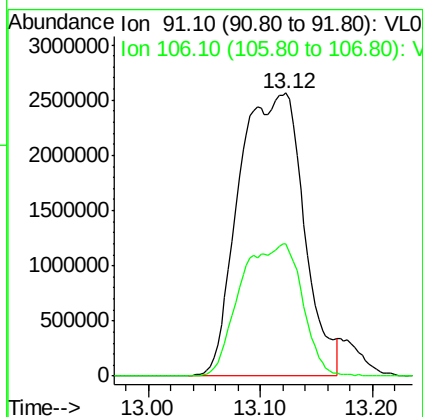
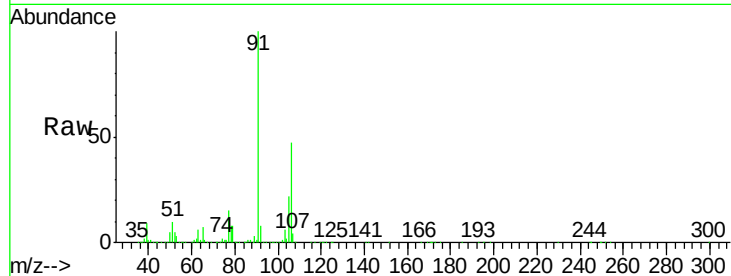
#59
m/p-Xylene
Concen: 31.003 ppbv m
RT: 13.12 min Scan# 3168
Delta R.T. 0.01 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp:10269232
Ion Ratio Lower Upper
91 100
106 44.8 35.7 53.5

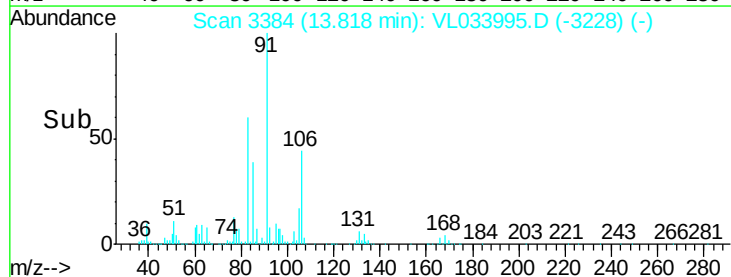
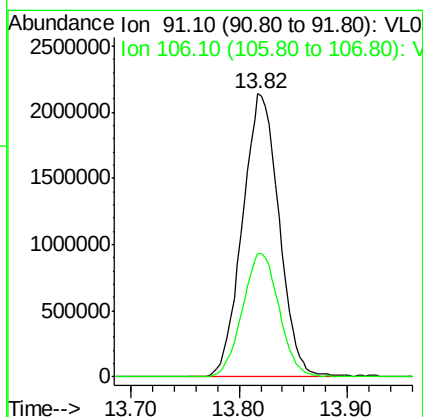
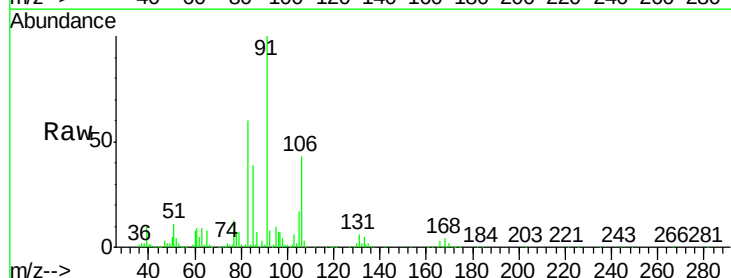
Manual Integrations
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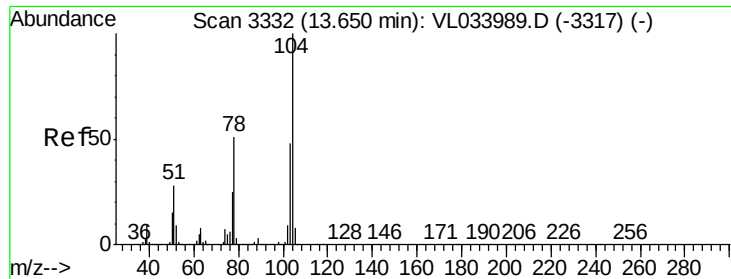
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#60
o-Xylene
Concen: 14.693 ppbv
RT: 13.82 min Scan# 3384
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Tgt Ion: 91 Resp: 5025149
Ion Ratio Lower Upper
91 100
106 44.0 21.9 65.7





#61

Stvrene

Concen: 17.301 ppbv

RT: 13.66 min Scan# 3334

Delta R.T. 0.01 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 3829013

Ion Ratio Lower Upper

104 100

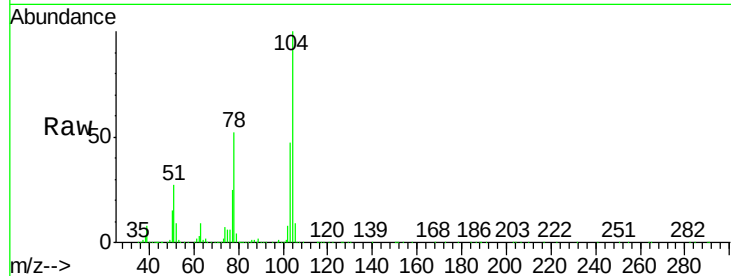
78 54.4 43.9 65.9

103 47.9 38.1 57.1

Manual Integrations
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MMDadoda

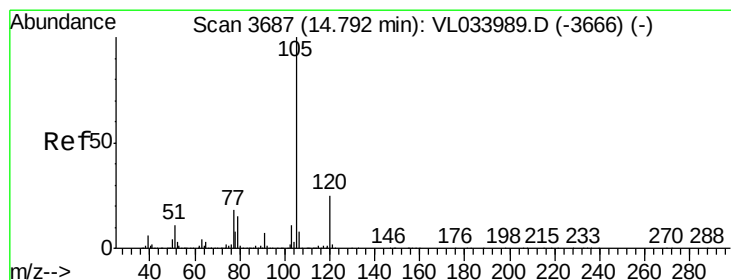
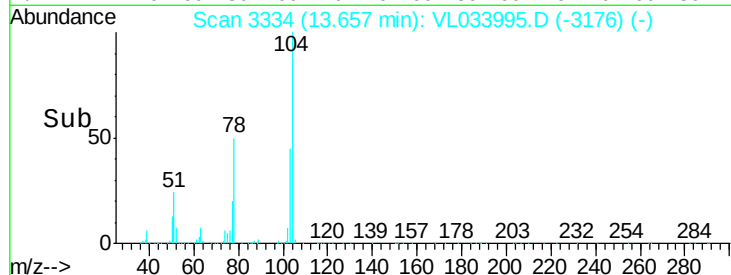
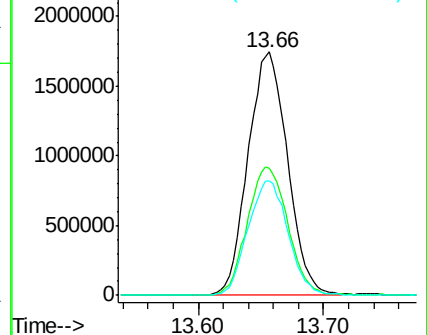
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 14.761 ppbv

RT: 14.79 min Scan# 3688

Delta R.T. 0.00 min

Lab File: VL033995.D

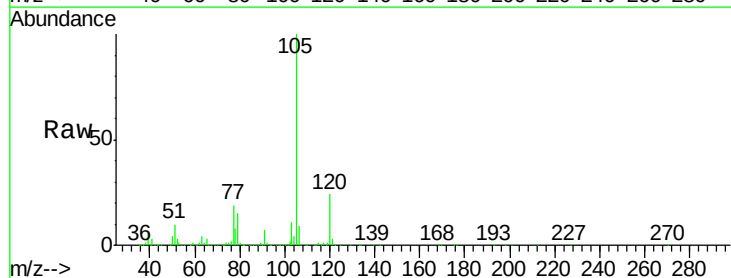
Acq: 2 Jul 2019 17:30

Tgt Ion:105 Resp: 6803837

Ion Ratio Lower Upper

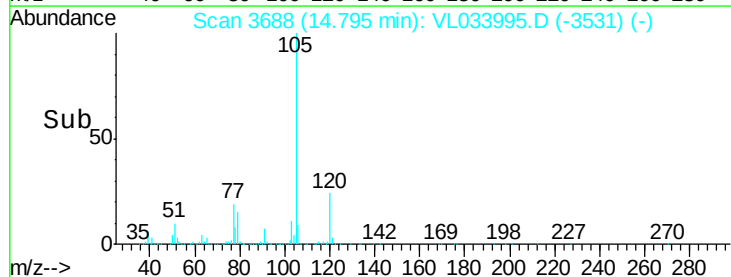
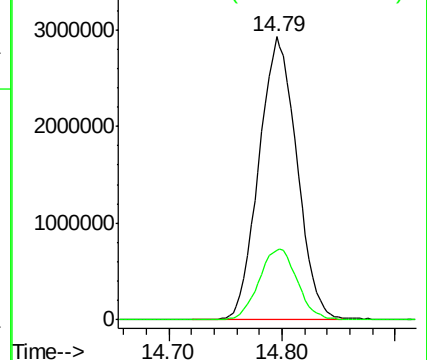
105 100

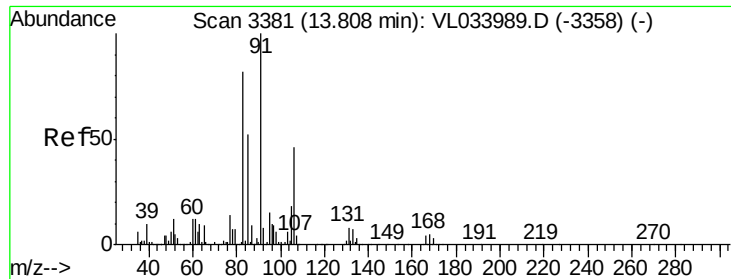
120 25.3 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





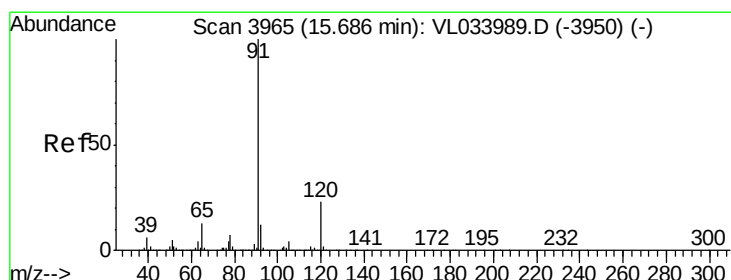
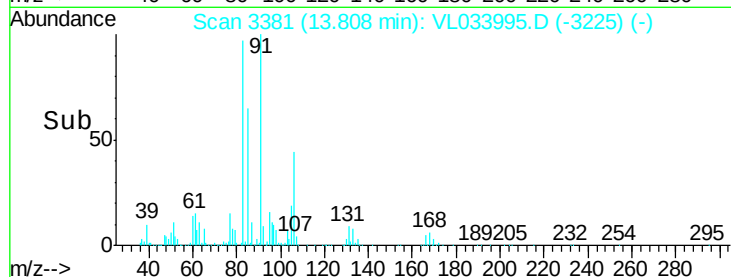
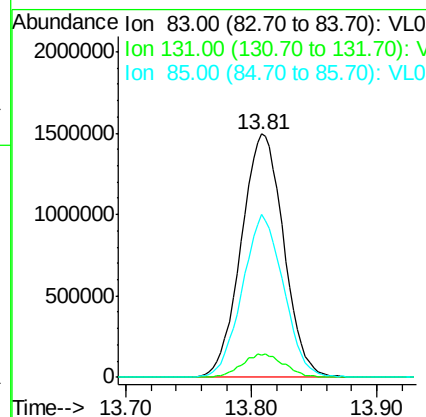
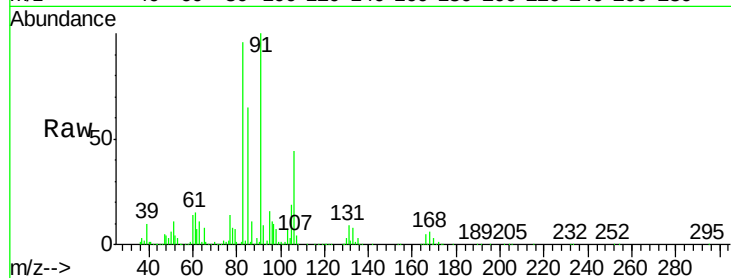
#63
 1,1,2,2-Tetrachloroethane
 Concen: 13.586 ppbv
 RT: 13.81 min Scan# 3381
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	83	Resp	3497420
Ion Ratio	Lower	Upper	
83	100		
131	9.7	5.0	14.9
85	65.4	32.8	98.3

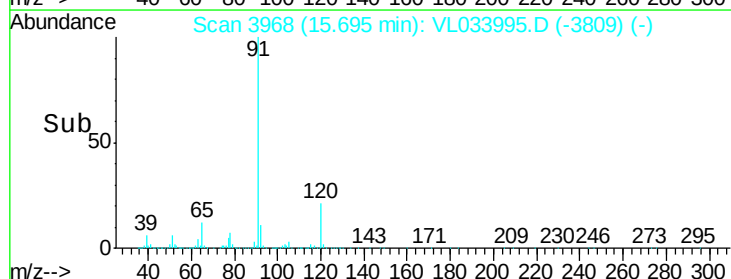
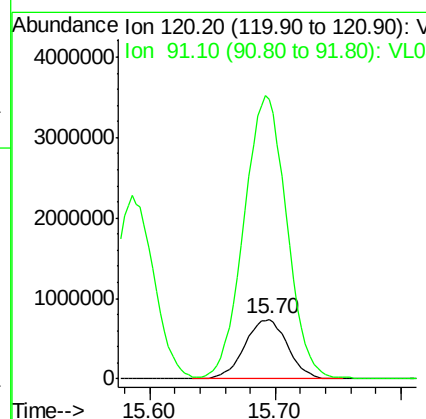
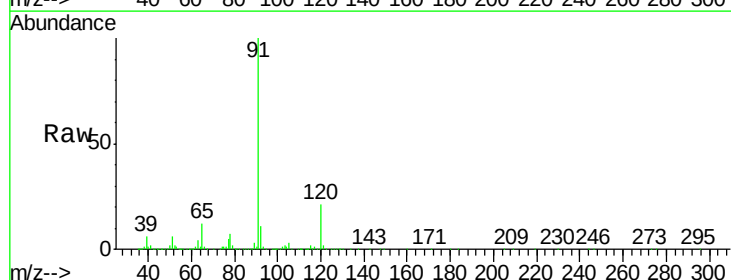
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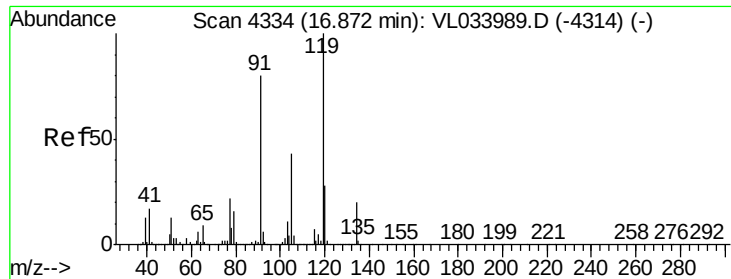
MMDadoda
 7/3/2019 11:03:34 PM



#64
 n-propylbenzene
 Concen: 14.845 ppbv
 RT: 15.70 min Scan# 3968
 Delta R.T. 0.01 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Tgt Ion	120	Resp	1752278
Ion Ratio	Lower	Upper	
120	100		
91	476.9	386.6	579.8





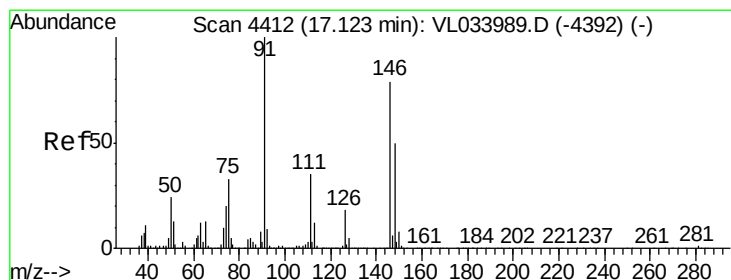
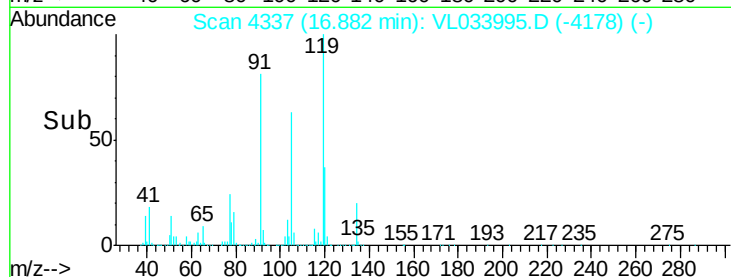
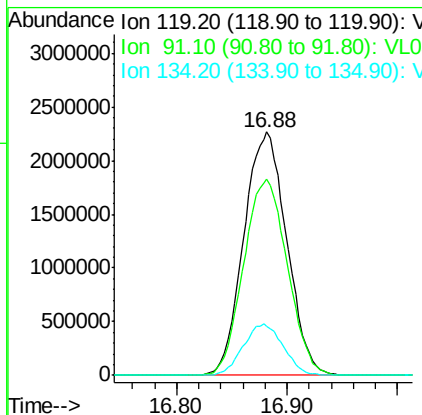
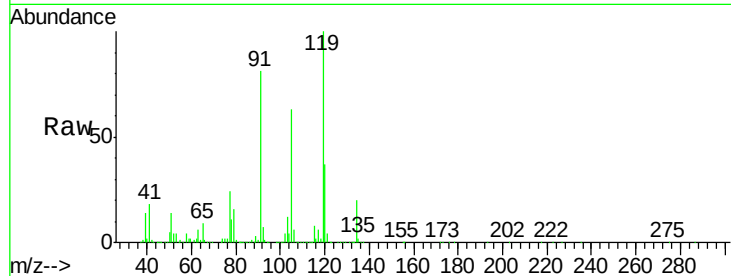
#65
 tert-Butylbenzene
 Concen: 14.295 ppbv
 RT: 16.88 min Scan# 4337
 Delta R.T. 0.01 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 119 Resp: 6097073
 Ion Ratio Lower Upper
 119 100
 91 82.4 67.0 100.6
 134 19.7 15.8 23.6

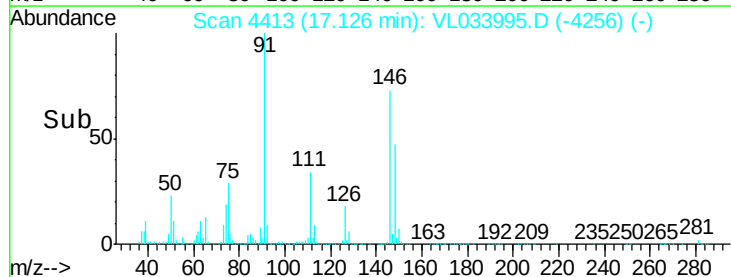
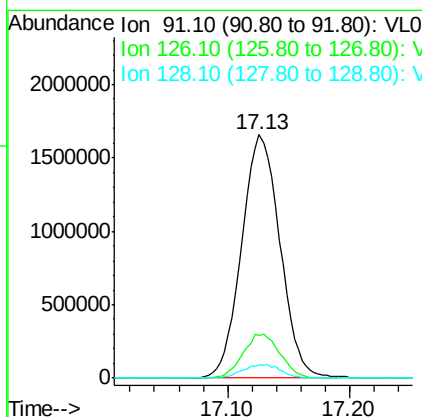
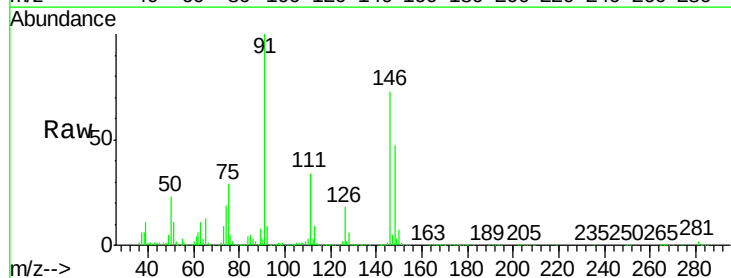
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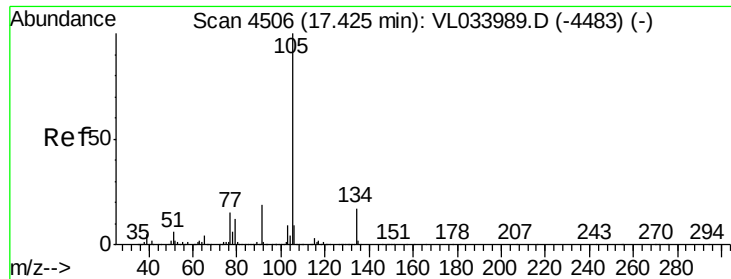
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#66
 Benzyl Chloride
 Concen: 16.614 ppbv
 RT: 17.13 min Scan# 4413
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Tgt Ion: 91 Resp: 3590894
 Ion Ratio Lower Upper
 91 100
 126 17.7 13.9 20.9
 128 5.7 4.6 7.0





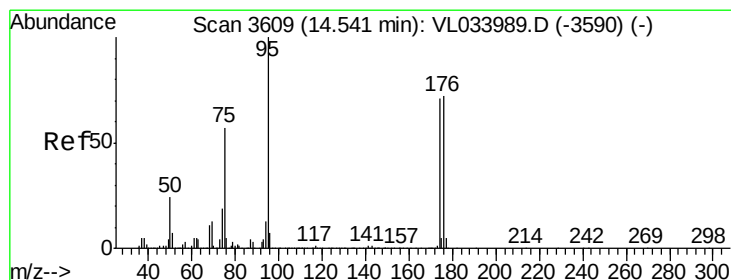
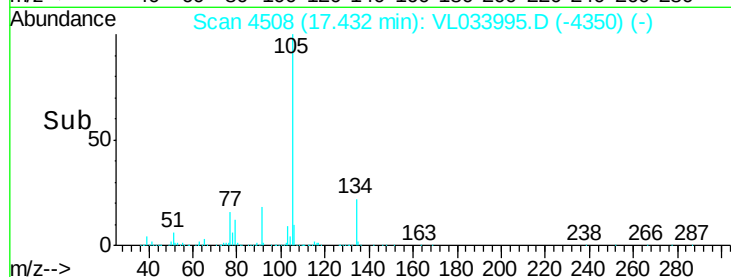
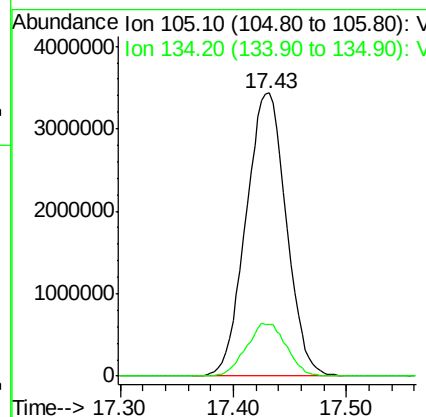
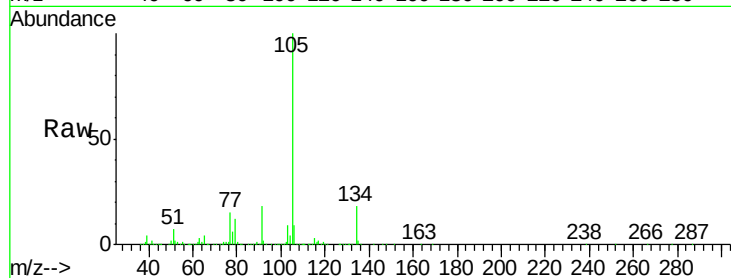
#67
 sec-Butylbenzene
 Concen: 14.183 ppbv
 RT: 17.43 min Scan# 4508
 Delta R.T. 0.01 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 105 Resp: 8486315
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.7 22.1

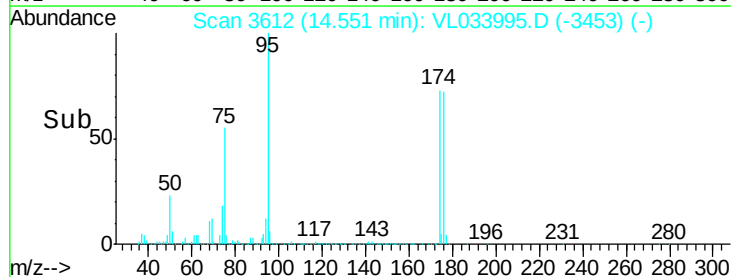
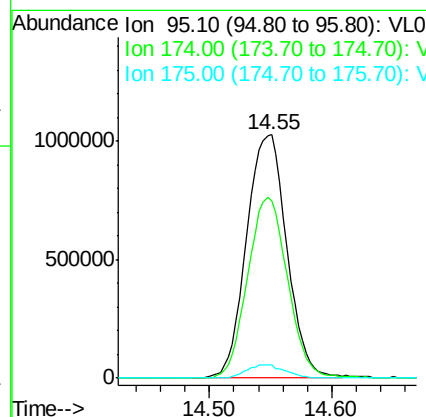
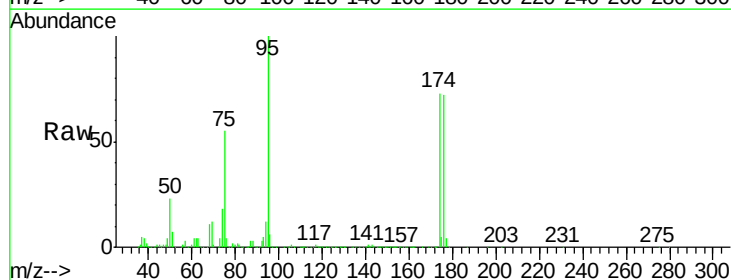
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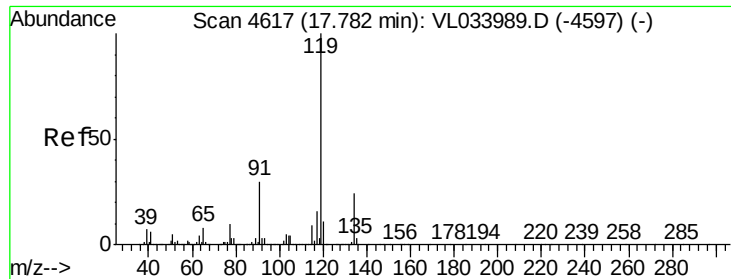
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.838 ppbv
 RT: 14.55 min Scan# 3612
 Delta R.T. 0.01 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Tgt Ion: 95 Resp: 2345335
 Ion Ratio Lower Upper
 95 100
 174 74.2 60.5 90.7
 175 5.3 4.0 6.0





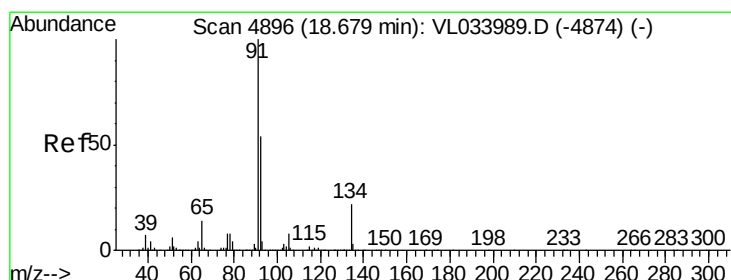
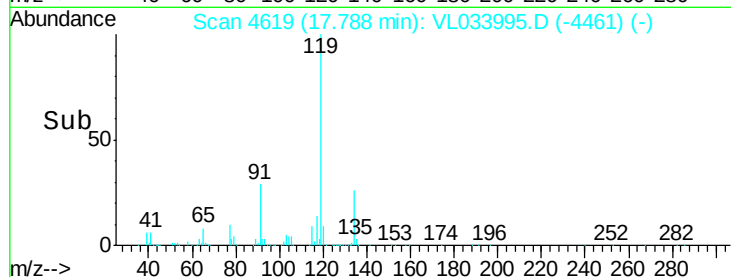
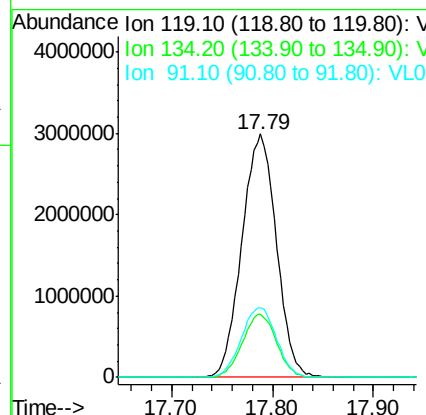
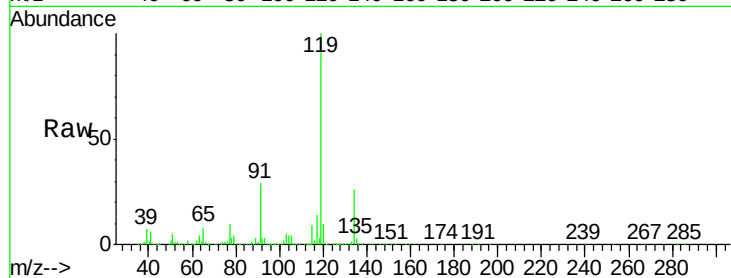
#69
 p-Isopropyltoluene
 Concen: 14.226 ppbv
 RT: 17.79 min Scan# 4619
 Delta R.T. 0.01 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.1	30.1
91	29.3	23.6	35.4

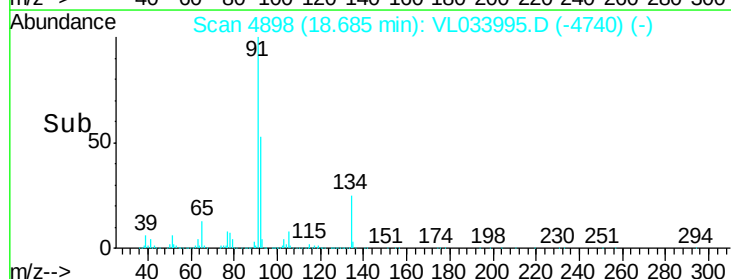
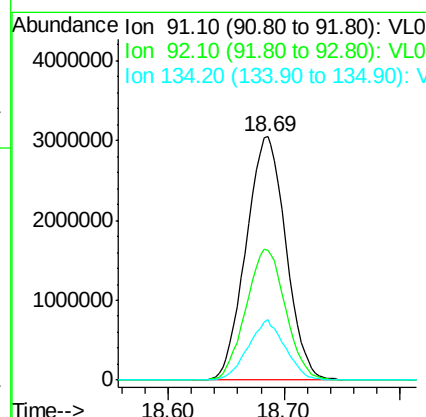
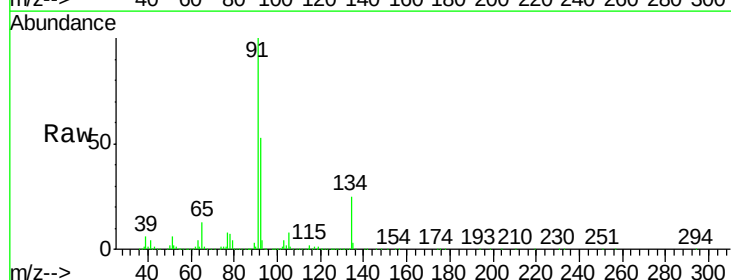
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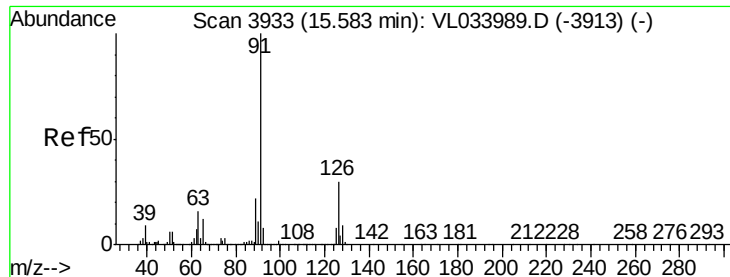
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#70
 n-Butylbenzene
 Concen: 13.349 ppbv
 RT: 18.69 min Scan# 4898
 Delta R.T. 0.01 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.5	42.0	63.0
134	22.9	17.9	26.9





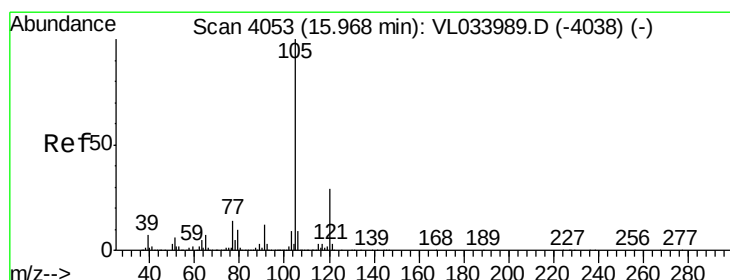
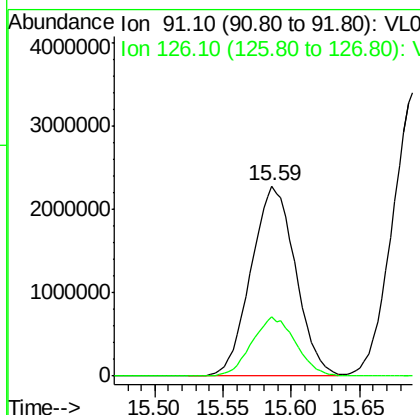
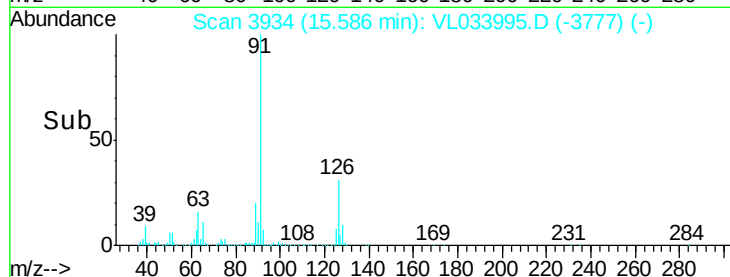
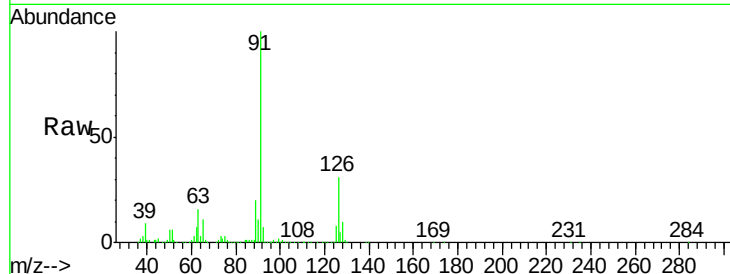
#71
 2-Chlorotoluene
 Concen: 15.184 ppbv
 RT: 15.59 min Scan# 3934
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 91 Resp: 5156040
 Ion Ratio Lower Upper
 91 100
 126 30.6 12.3 49.3

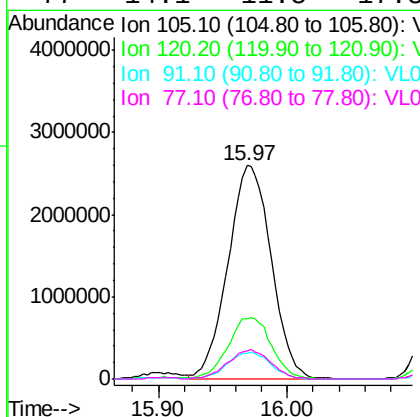
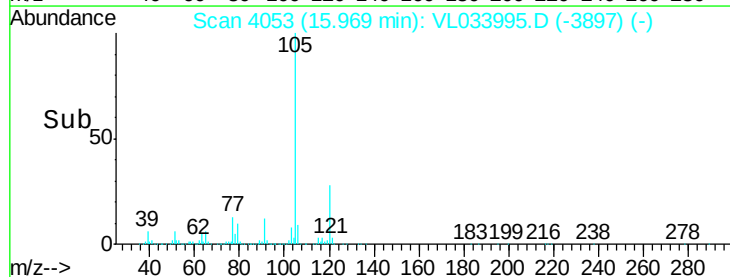
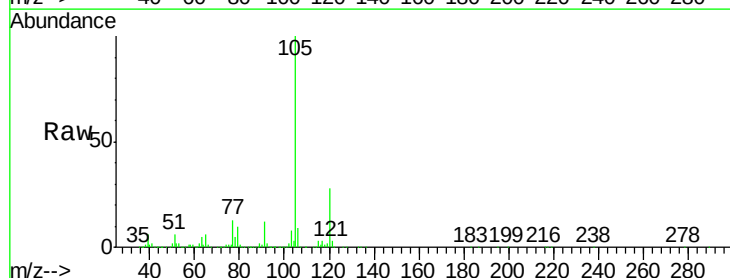
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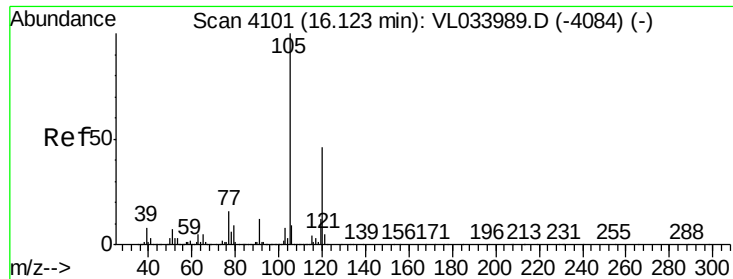
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 7/3/2019 11:03:34 PM



#72
 4-Ethyltoluene
 Concen: 15.451 ppbv
 RT: 15.97 min Scan# 4053
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Tgt Ion: 105 Resp: 6013428
 Ion Ratio Lower Upper
 105 100
 120 29.8 24.1 36.1
 91 12.7 10.6 16.0
 77 14.1 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 14.754 ppbv

RT: 16.13 min Scan# 4102

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5656149

Ion Ratio Lower Upper

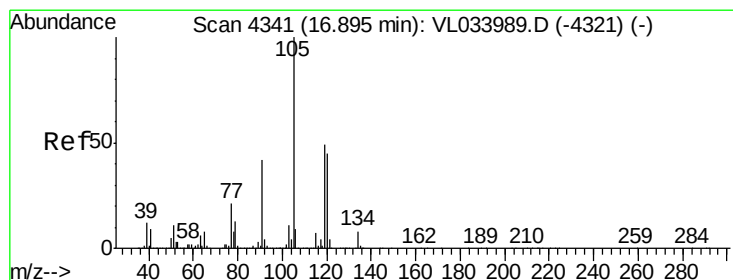
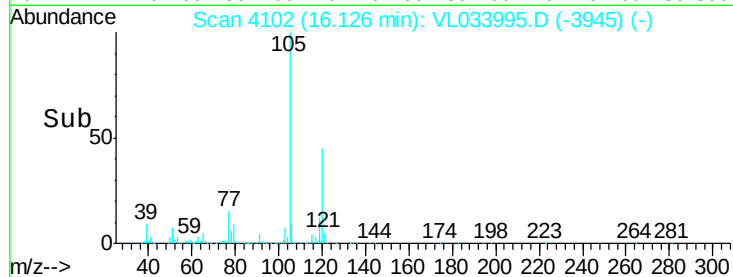
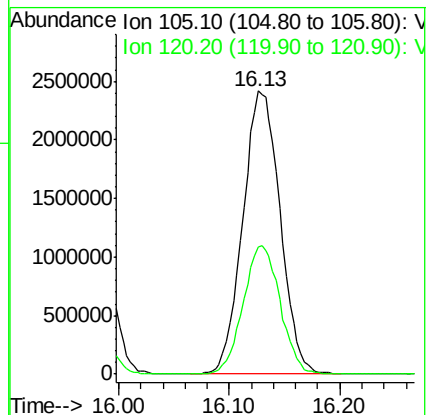
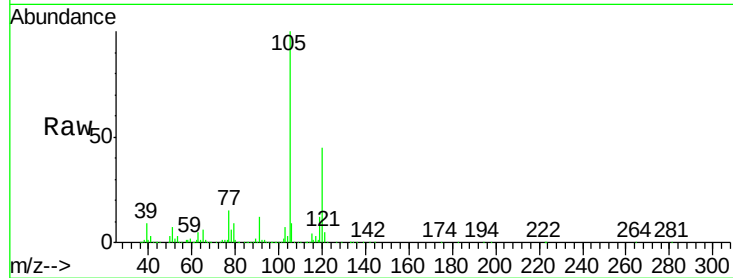
105 100

120 45.1 36.4 54.6

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7/3/2019 11:03:34 PM



#74

1,2,4-Trimethylbenzene

Concen: 13.420 ppbv

RT: 16.90 min Scan# 4342

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Tgt Ion:105 Resp: 5929758

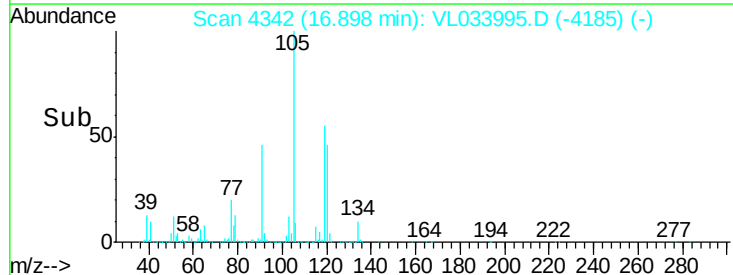
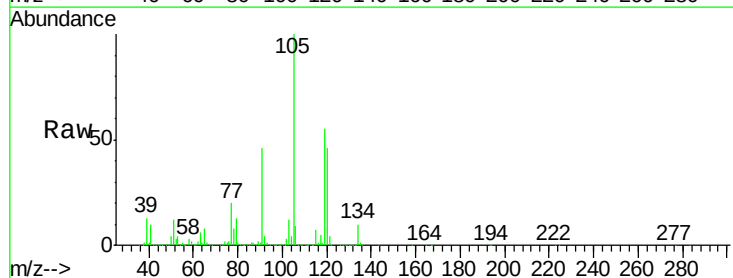
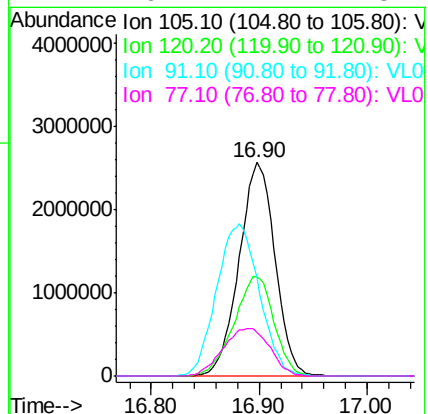
Ion Ratio Lower Upper

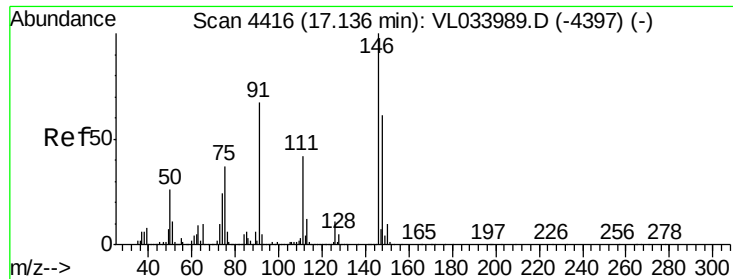
105 100

120 46.2 36.2 54.2

91 46.3 34.3 51.5

77 20.2 17.1 25.7





#75

1,3-Dichlorobenzene

Concen: 12.888 ppbv

RT: 17.14 min Scan# 4416

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 3566142

Ion Ratio Lower Upper

146 100

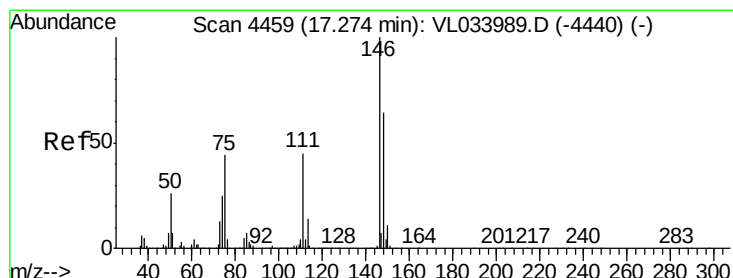
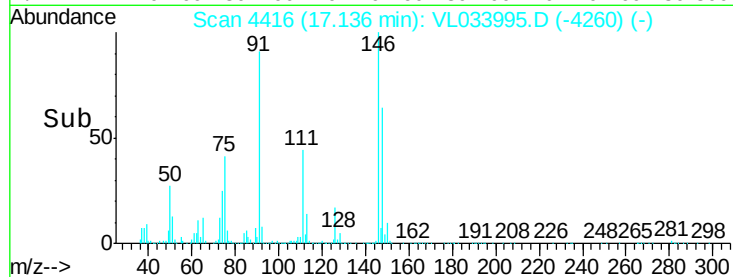
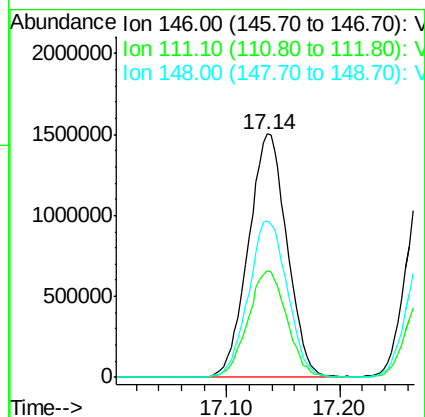
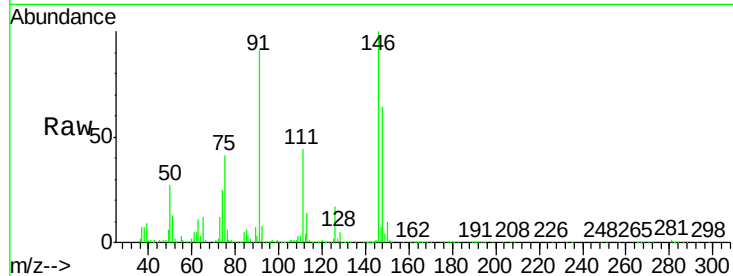
111 43.9 22.3 66.9

148 64.6 32.0 96.2

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7/3/2019 11:03:34 PM



#76

1,4-Dichlorobenzene

Concen: 14.018 ppbv

RT: 17.28 min Scan# 4460

Delta R.T. 0.00 min

Lab File: VL033995.D

Acq: 2 Jul 2019 17:30

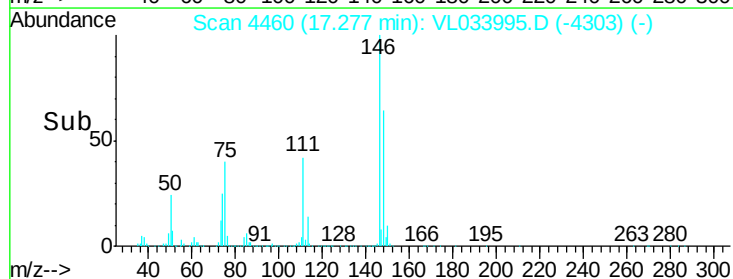
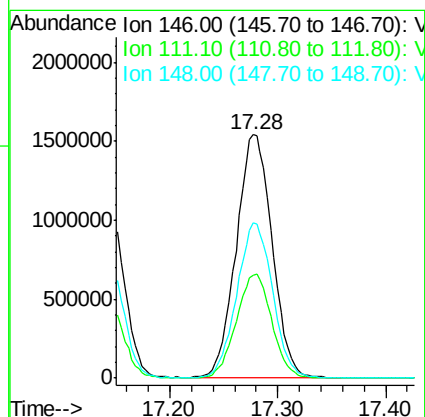
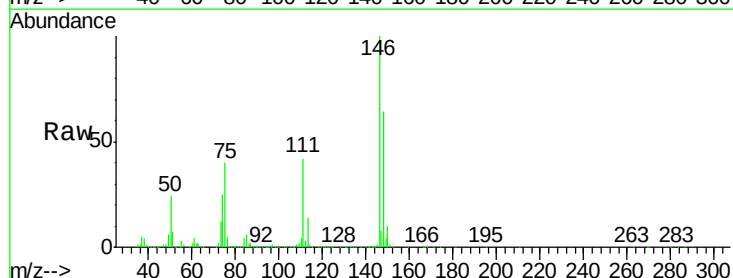
Tgt Ion:146 Resp: 3561564

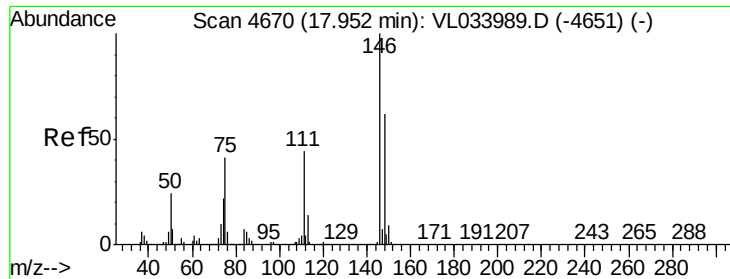
Ion Ratio Lower Upper

146 100

111 42.4 21.9 65.5

148 63.9 32.5 97.5





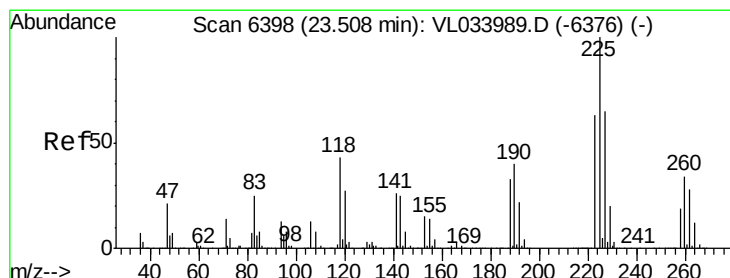
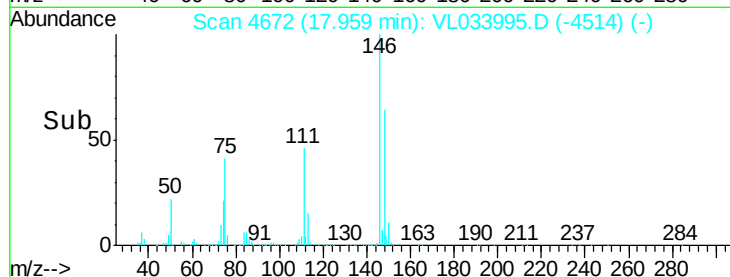
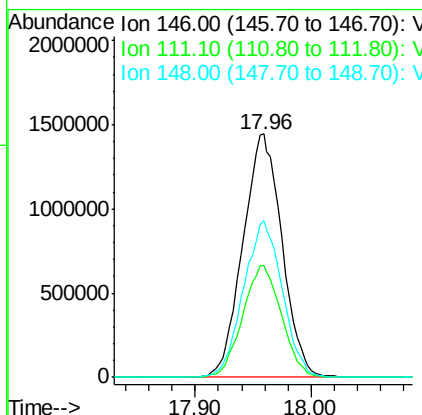
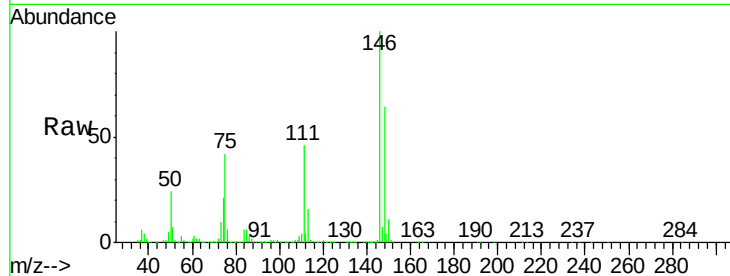
#77
 1,2-Dichlorobenzene
 Concen: 13.262 ppbv
 RT: 17.96 min Scan# 4672
 Delta R.T. 0.01 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.8	22.7	68.1
148	64.0	32.1	96.3

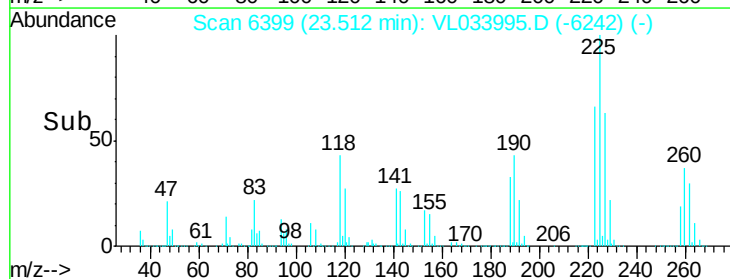
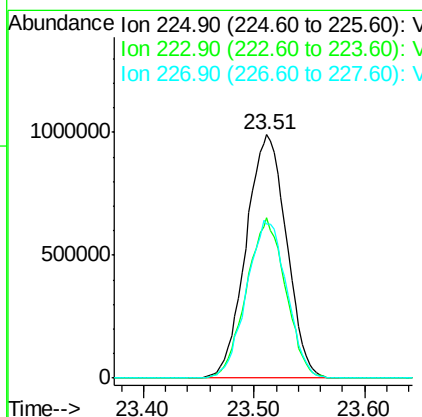
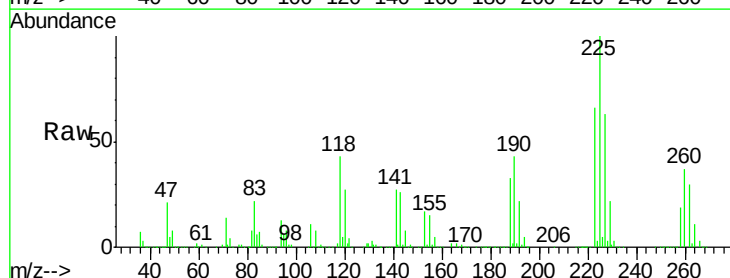
Manual Integrations
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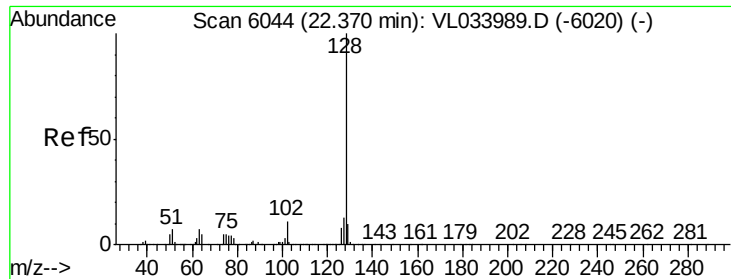
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#78
 Hexachloro-1,3-Butadiene
 Concen: 12.589 ppbv
 RT: 23.51 min Scan# 6399
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.8	51.5	77.3
227	64.3	52.1	78.1





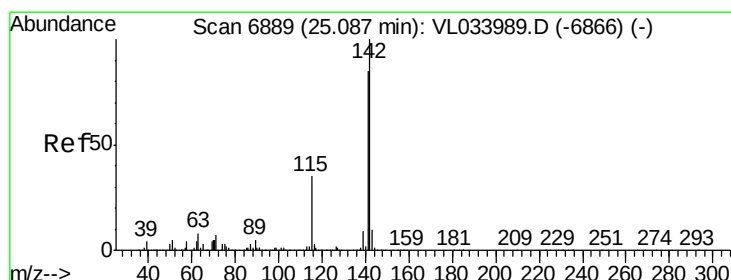
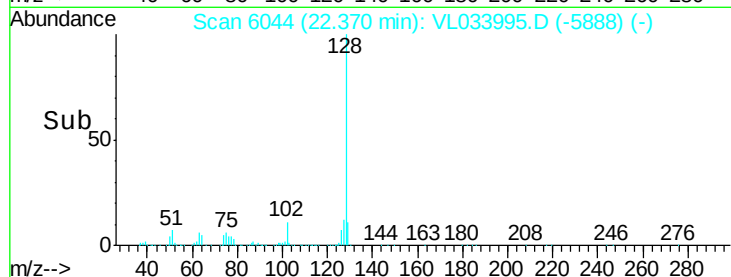
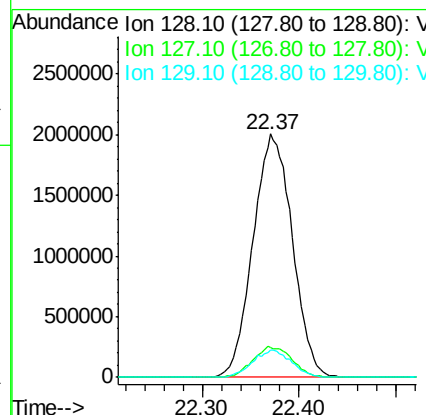
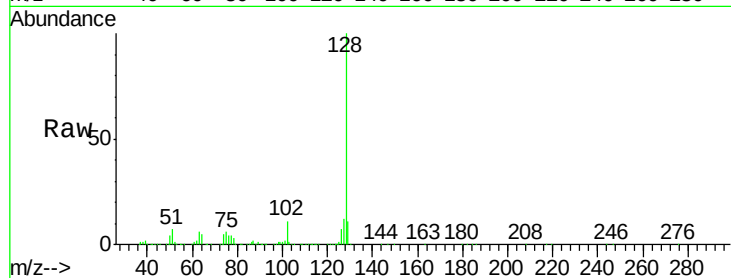
#79
Naphthalene
Concen: 16.020 ppbv
RT: 22.37 min Scan# 6044
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:128 Resp: 5657994
Ion Ratio Lower Upper
128 100
127 12.5 10.6 15.8
129 11.0 8.3 12.5

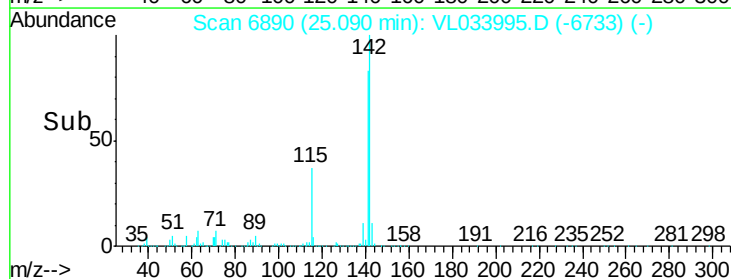
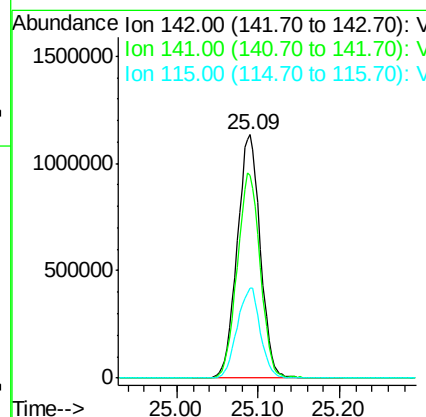
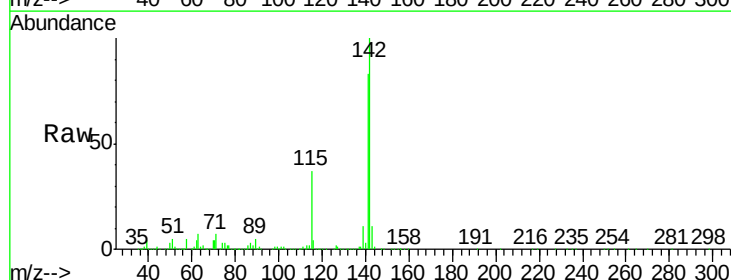
Manual Integrations
APPROVED

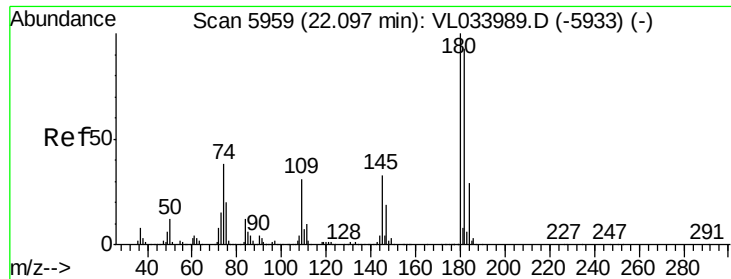
MMDadoda
7/3/2019 11:03:34 PM



#80
Naphthalene, 2-methyl-
Concen: 15.907 ppbv
RT: 25.09 min Scan# 6890
Delta R.T. 0.00 min
Lab File: VL033995.D
Acq: 2 Jul 2019 17:30

Tgt Ion:142 Resp: 2241511
Ion Ratio Lower Upper
142 100
141 84.0 68.2 102.2
115 37.1 29.9 44.9





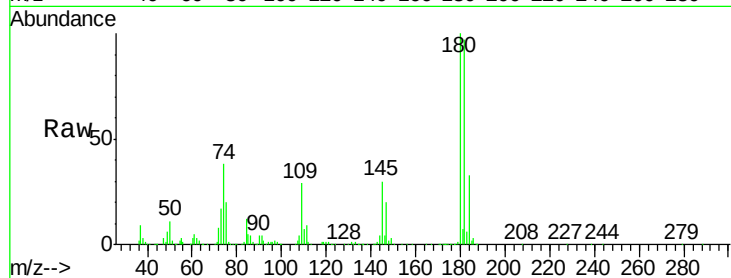
#81
 1,2,4-Trichlorobenzene
 Concen: 14.898 ppbv
 RT: 22.10 min Scan# 5959
 Delta R.T. 0.00 min
 Lab File: VL033995.D
 Acq: 2 Jul 2019 17:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.6	114.8
184	31.1	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:34 PM



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

