

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
 Data File : VL033296.D
 Acq On : 12 Mar 2019 23:36
 Operator : SY/AP
 Sample : VL0312ABS02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0312ABS02

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:06:35 AM

Quant Time: Mar 13 09:31:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 14
 QLast Update : Wed Mar 13 07:17:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	826152	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1885465	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2018075m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1552553	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1550958	9.296	ppbv	99
3) Chlorodifluoromethane	3.01	51	942119	8.597	ppbv	99
4) Chloromethane	3.17	50	507560	8.663	ppbv	97
5) Vinyl Chloride	3.29	62	492052	8.600	ppbv	99
6) Bromomethane	3.51	94	314550	9.000	ppbv	94
7) Chloroethane	3.60	64	190781	9.221	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1238439	8.780	ppbv	98
9) Propene	3.04	41	422427	8.456	ppbv	99
10) Heptane	8.25	43	1067220	9.484	ppbv	99
11) Trichlorofluoromethane	4.00	101	1360851	8.240	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	924843	9.785	ppbv	100
13) Ethanol	3.65	45	86667	5.686	ppbv	96
14) Bromoethene	3.79	108	387634	8.794	ppbv	100
15) Acetone	3.90	43	966660	7.628	ppbv	100
16) 1,3-Butadiene	3.36	39	421260	9.206	ppbv	97
17) tert-Butyl alcohol	4.36	59	148642	8.740	ppbv	98
18) 1,1-Dichloroethene	4.35	96	405833	9.700	ppbv	91
19) Isopropyl Alcohol	4.02	45	520761	6.799	ppbv	100
20) Methylene Chloride	4.41	84	355857	8.446	ppbv	96
21) Allyl Chloride	4.48	41	633086	10.049	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	422419	9.468	ppbv	94
23) Vinyl Acetate	5.16	43	1517651	9.558	ppbv	98
24) 1,1-Dichloroethane	5.09	63	1048071	9.101	ppbv	100
25) Ethyl Acetate	5.77	43	1765000	9.038	ppbv	99
26) Hexane	5.78	57	795159	8.675	ppbv	99
27) Carbon Disulfide	4.62	76	1026244	10.552	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1152998	8.863	ppbv	100
29) Chloroform	5.85	83	1300985	9.329	ppbv	100
30) Cyclohexane	7.25	84	671449	9.448	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	820458	9.337	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1245360	9.165	ppbv	99
34) 2-Butanone	5.33	43	1178977	9.456	ppbv	99
35) Carbon Tetrachloride	7.14	117	1360992	9.879	ppbv	99
36) Benzene	7.01	78	1655245	9.519	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1001757	9.605	ppbv	100
38) Trichloroethene	7.96	130	630054	9.295	ppbv	99
39) 1,2-Dichloropropane	7.74	63	630387	9.634	ppbv	98
40) 1,4-Dioxane	7.95	88	218396m	8.868	ppbv	
41) Tetrahydrofuran	6.15	42	669158	9.667	ppbv	100
42) Bromodichloromethane	7.92	83	1465386	10.206	ppbv	99
43) Methyl Methacrylate	8.14	69	683940	10.091	ppbv	99

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :
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Manual Integrations
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MMDadoda
 3/14/2019 5:06:35 AM

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 14 09:31:33 2019
 QLast Update : Wed Mar 13 07:17:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2801320	9.484	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	887175	10.648	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1023159	10.477	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	675964	9.674	ppbv	99
48) Dibromochloromethane	10.45	129	1221443	10.661	ppbv	99
49) Bromoform	13.21	173	1060102	11.416	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1733871	9.744	ppbv	99
51) 2-Hexanone	10.27	43	1380712	10.165	ppbv #	99
52) Tetrachloroethene	11.37	164	623071	9.775	ppbv	98
53) Toluene	9.95	91	1962805	9.793	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1092258	10.170	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	835104	9.735	ppbv #	60
57) Chlorobenzene	12.30	112	1436565	9.439	ppbv	99
58) Ethyl Benzene	12.87	91	2712631	9.781	ppbv	97
59) m/p-Xylene	13.15	91	4582189m	19.758	ppbv	
60) o-Xylene	13.85	91	2235562	10.027	ppbv	100
61) Styrene	13.69	104	1656945	10.434	ppbv	100
62) Isopropylbenzene	14.83	105	3108268	10.005	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1510680	10.107	ppbv	99
64) n-propylbenzene	15.73	120	814137	10.650	ppbv	98
65) tert-Butylbenzene	16.91	119	2790200	10.640	ppbv	99
66) Benzyl Chloride	17.16	91	1315759	12.954	ppbv	99
67) sec-Butylbenzene	17.46	105	3949247	10.581	ppbv	100
69) p-Isopropyltoluene	17.82	119	3216934	10.669	ppbv	99
70) n-Butylbenzene	18.72	91	3434826	10.609	ppbv	100
71) 2-Chlorotoluene	15.62	91	2481051	10.594	ppbv	99
72) 4-Ethyltoluene	16.00	105	2632826	10.932	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2502570	11.027	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	2557479	11.065	ppbv	95
75) 1,3-Dichlorobenzene	17.17	146	1463564	10.565	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1467841	10.715	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1407984	10.210	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	805013	7.007	ppbv	100
79) Naphthalene	22.42	128	2735329	10.932	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	1490073	21.735	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1305024	9.907	ppbv	100

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

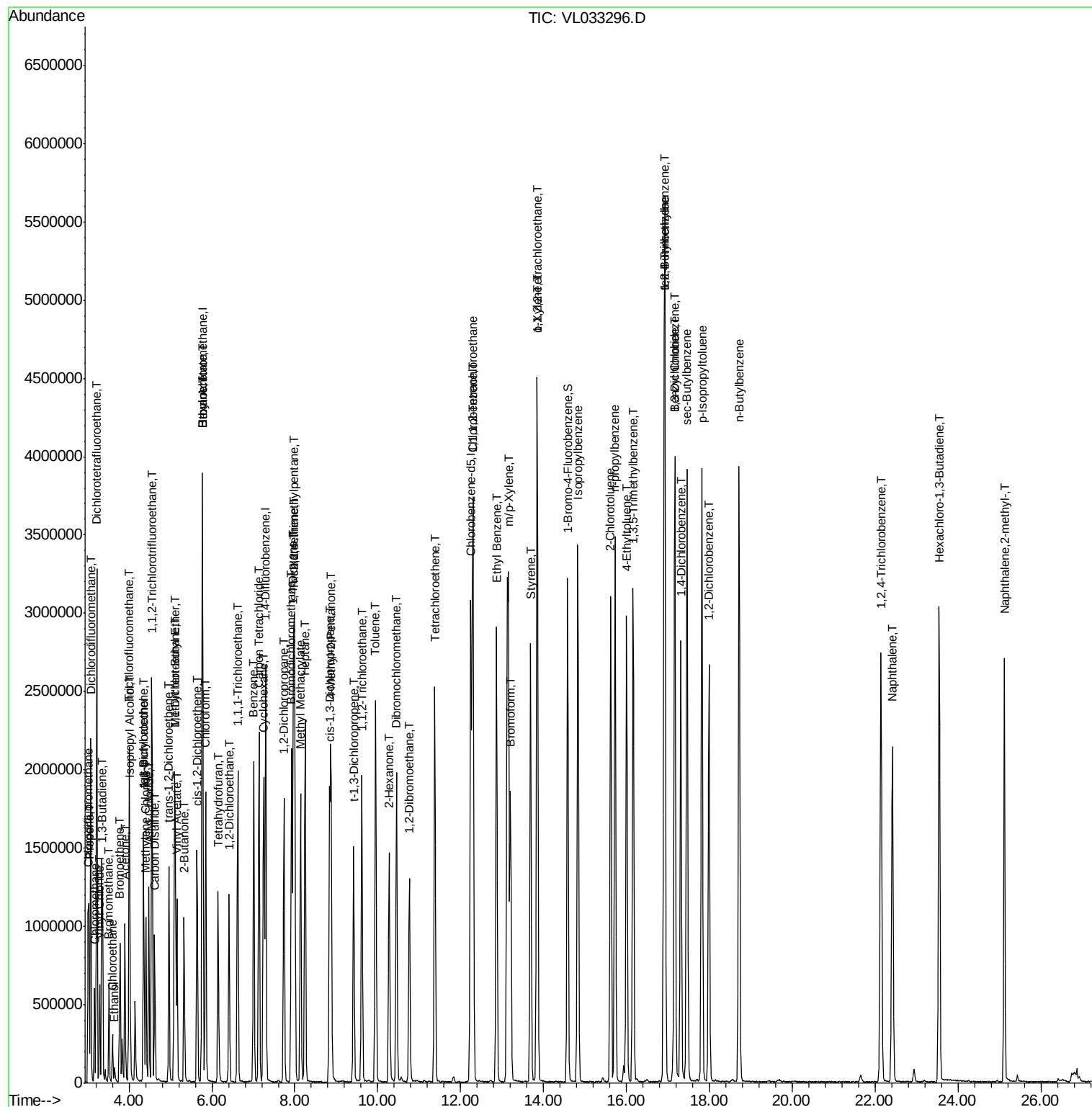
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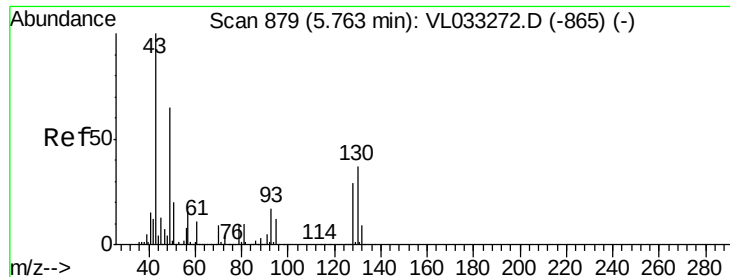
Instrument :
MSVOA_L
ClientSampleId :
VL0312ABS02

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar
QLast Update : Wed Mar 13 07:17:55 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Instrument :

MSVOA_L

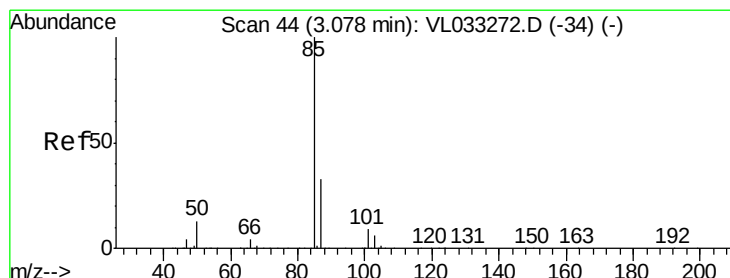
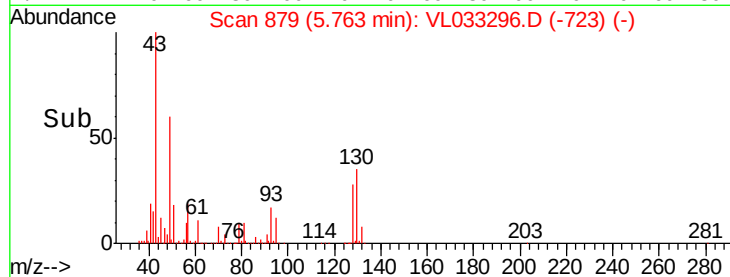
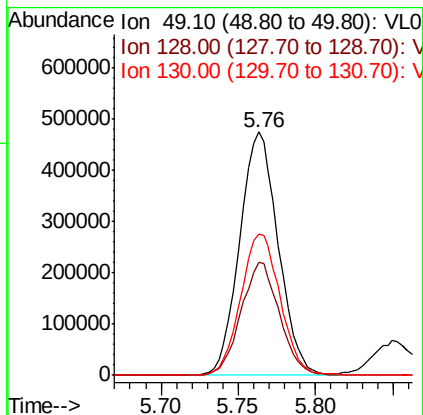
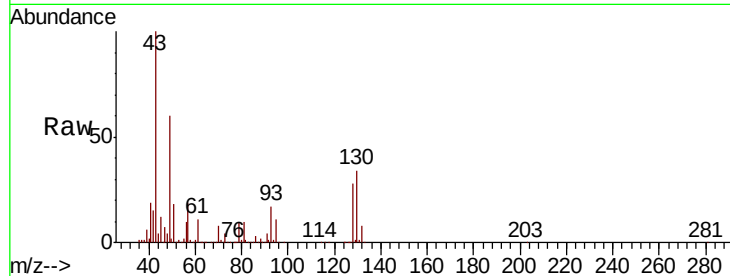
ClientSampleId :

VL0312ABS02

Tgt Ion:	49	Resp:	826152
Ion	Ratio	Lower	Upper
49	100		
128	46.4	23.3	69.9
130	59.5	30.0	90.1

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 9.296 ppbv

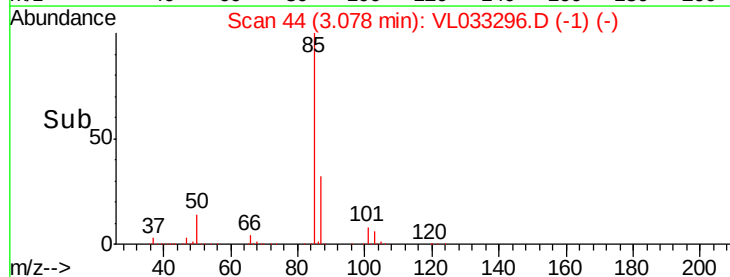
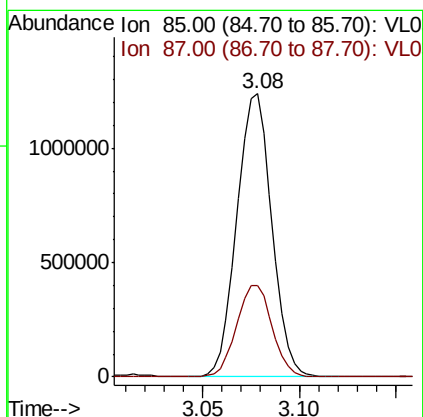
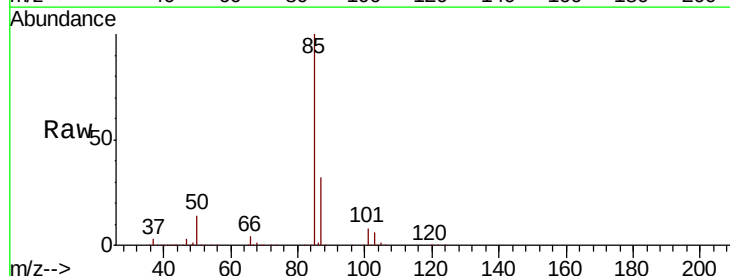
RT: 3.08 min Scan# 44

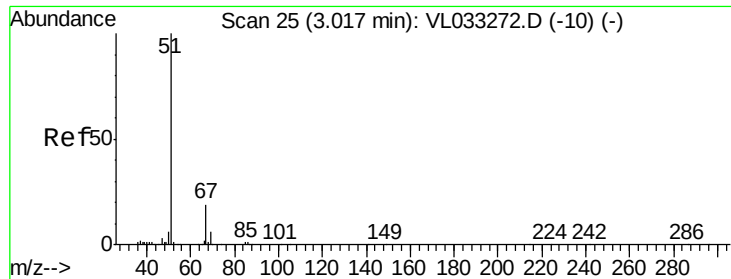
Delta R.T. -0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Tgt Ion:	85	Resp:	1550958
Ion	Ratio	Lower	Upper
85	100		
87	32.2	26.4	39.6





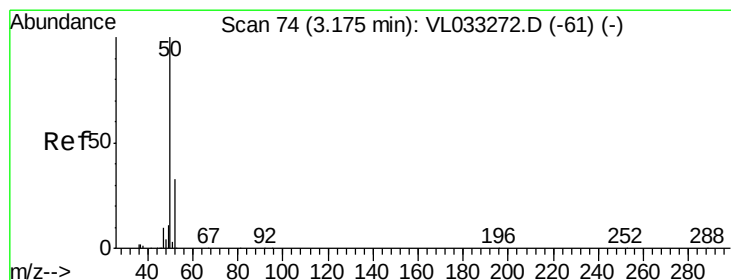
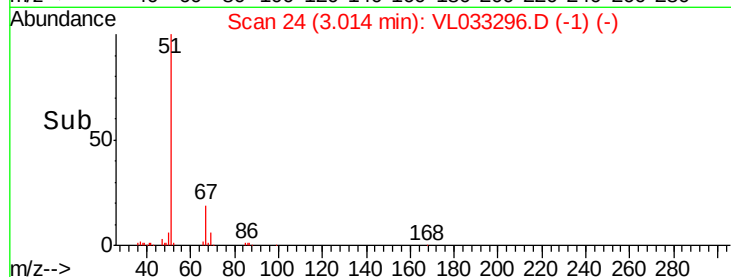
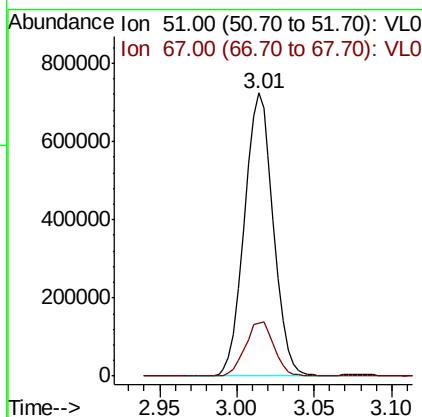
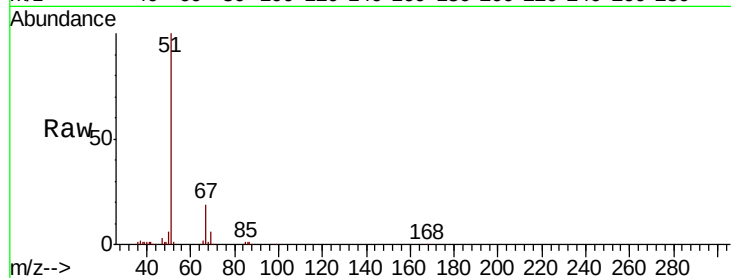
#3
 Chlorodifluoromethane
 Concen: 8.597 ppbv
 RT: 3.01 min Scan# 24
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0312ABS02

Tgt Ion	Ratio	Lower	Upper
51	100		
67	19.3	15.0	22.4

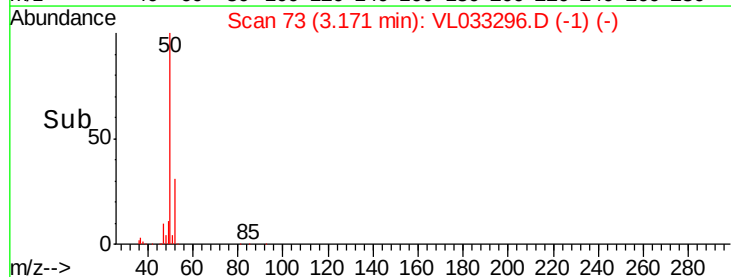
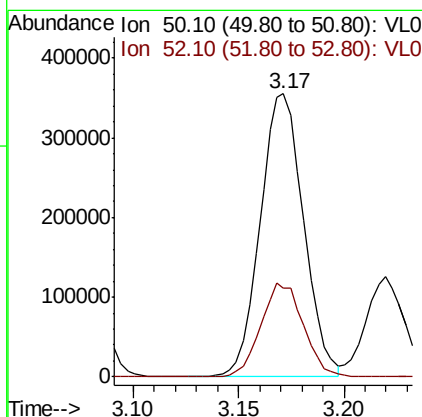
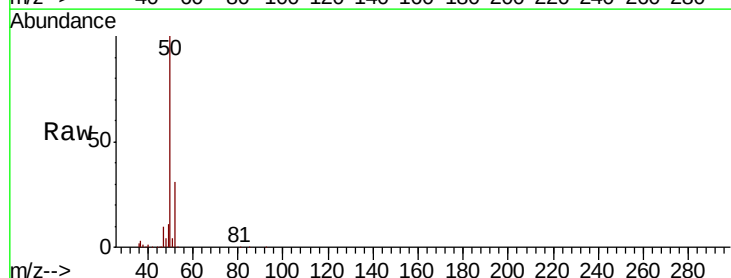
Manual Integrations
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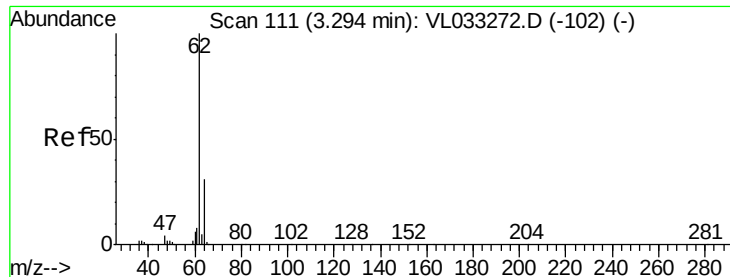
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 3/14/2019 5:06:35 AM



#4
 Chloromethane
 Concen: 8.663 ppbv
 RT: 3.17 min Scan# 73
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.3	26.6	39.8





#5

Vinyl Chloride

Concen: 8.600 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Instrument :

MSVOA_L

ClientSampleId :

VL0312ABS02

Tgt Ion: 62 Resp: 492052

Ion Ratio Lower Upper

62 100

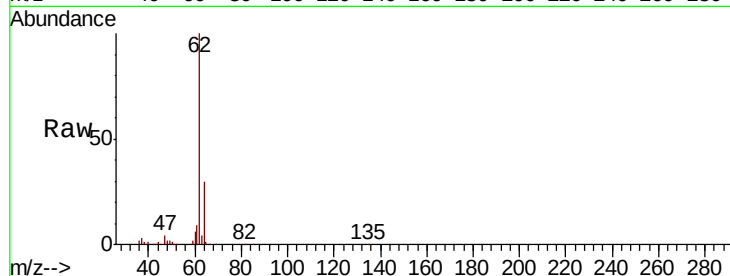
64 30.0 24.5 36.7

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

400000

300000

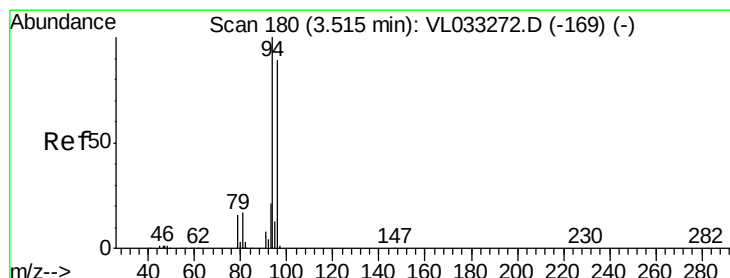
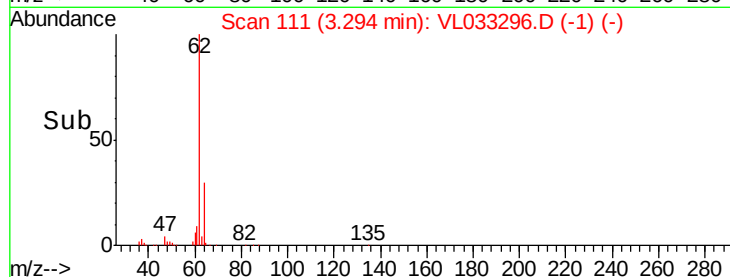
200000

100000

0

3.25 3.30 3.35

Time-->



#6

Bromomethane

Concen: 9.000 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033296.D

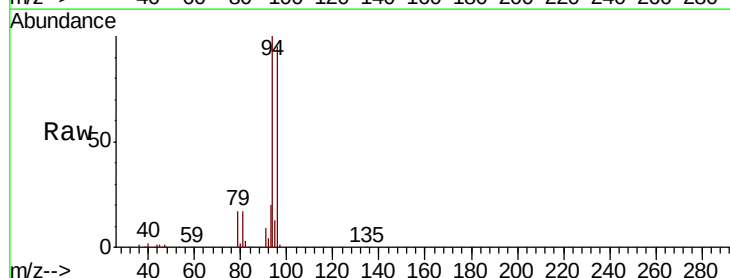
Acq: 12 Mar 2019 23:36

Tgt Ion: 94 Resp: 314550

Ion Ratio Lower Upper

94 100

96 94.6 71.3 106.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

250000

200000

150000

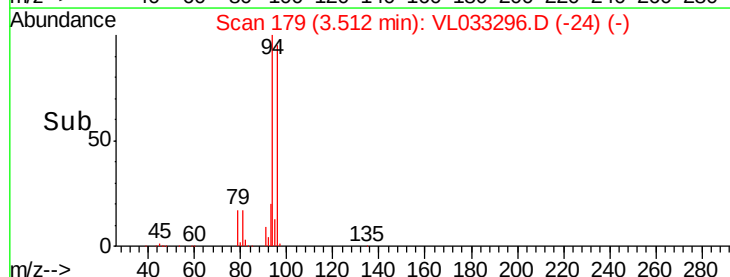
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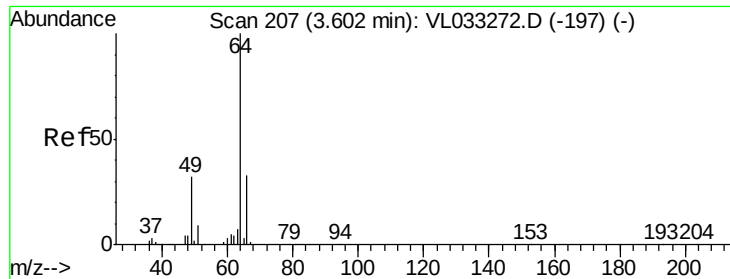
50000

0

3.45 3.50 3.55

Time-->





#7

Chloroethane

Concen: 9.221 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Instrument :

MSVOA_L

ClientSampleId :

VL0312ABS02

Tgt Ion: 64 Resp: 190781

Ion Ratio Lower Upper

64 100

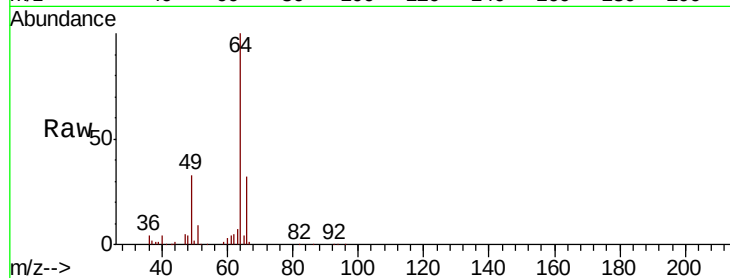
66 33.2 26.2 39.2

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

150000

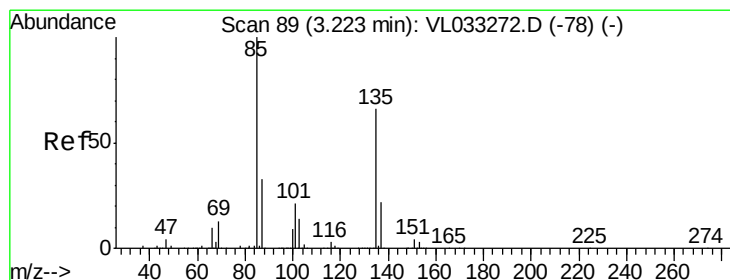
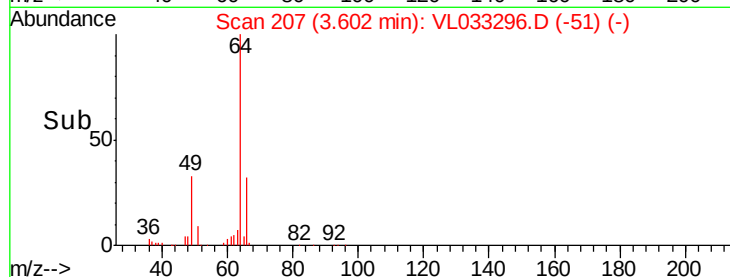
100000

50000

0

3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.780 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033296.D

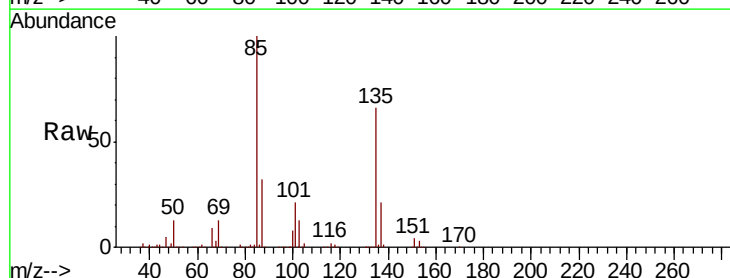
Acq: 12 Mar 2019 23:36

Tgt Ion: 85 Resp: 1238439

Ion Ratio Lower Upper

85 100

135 65.6 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1000000

800000

600000

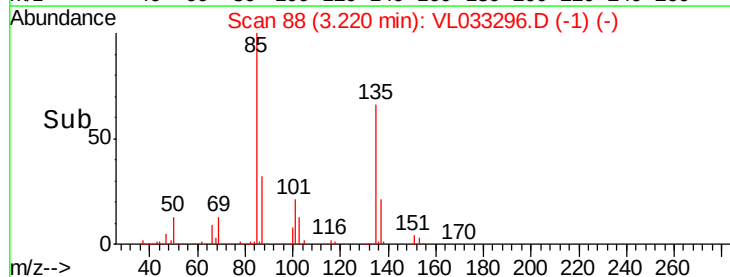
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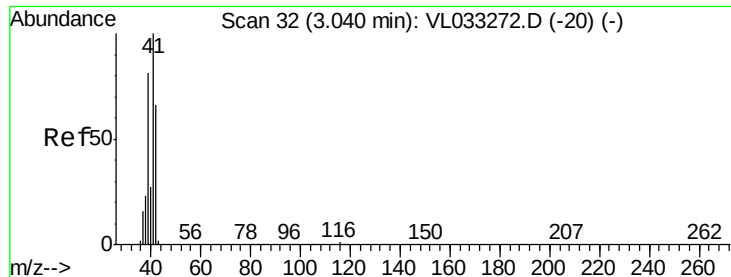
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0

3.15 3.20 3.25

Time-->





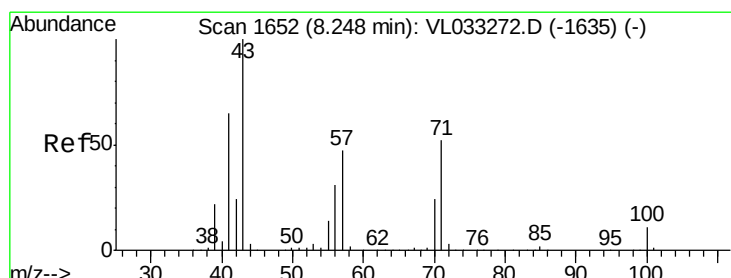
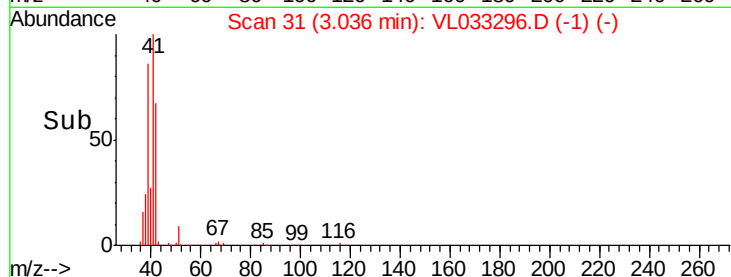
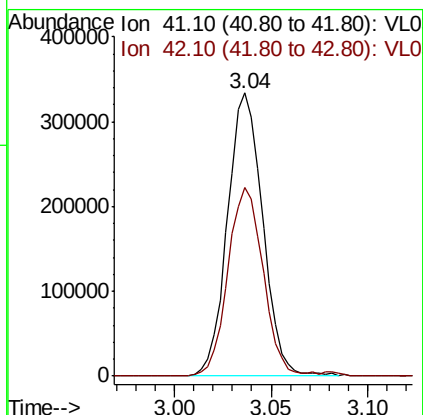
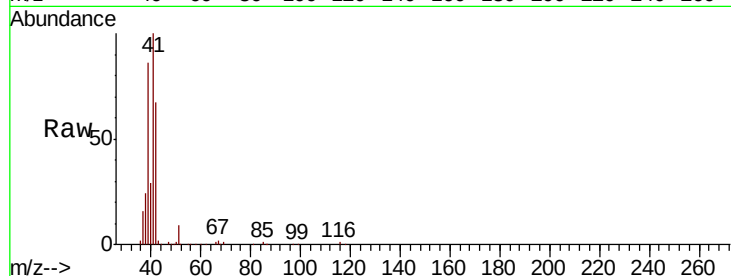
#9
 Propene
 Concen: 8.456 ppbv
 RT: 3.04 min Scan# 31
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0312ABS02

Tgt Ion: 41 Resp: 422427
 Ion Ratio Lower Upper
 41 100
 42 67.6 54.6 82.0

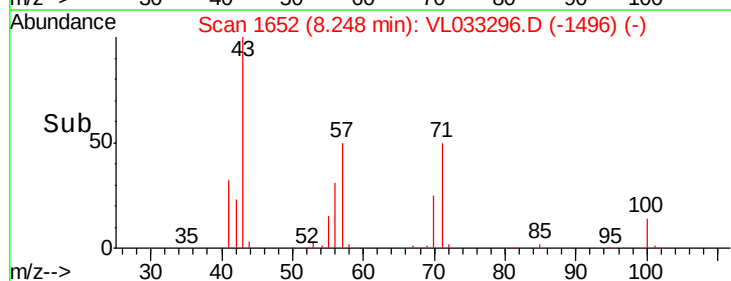
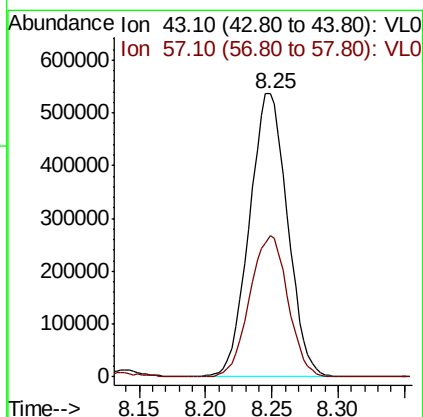
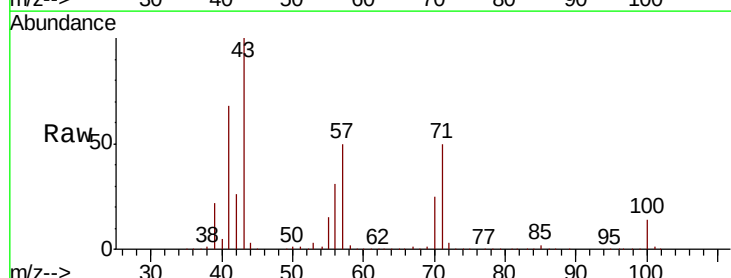
Manual Integrations
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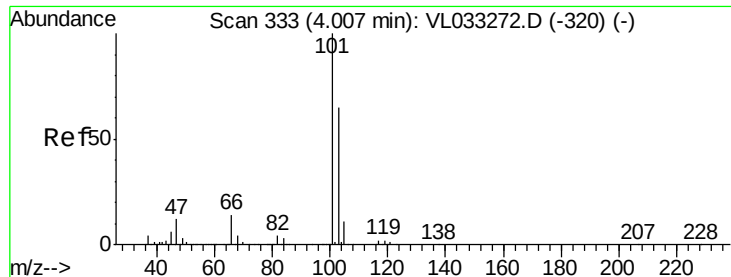
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#10
 Heptane
 Concen: 9.484 ppbv
 RT: 8.25 min Scan# 1652
 Delta R.T. 0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Tgt Ion: 43 Resp: 1067220
 Ion Ratio Lower Upper
 43 100
 57 50.3 39.8 59.8





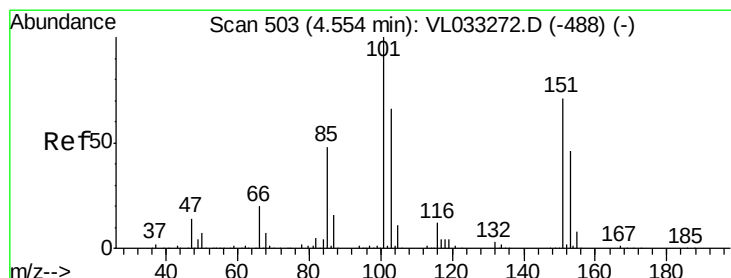
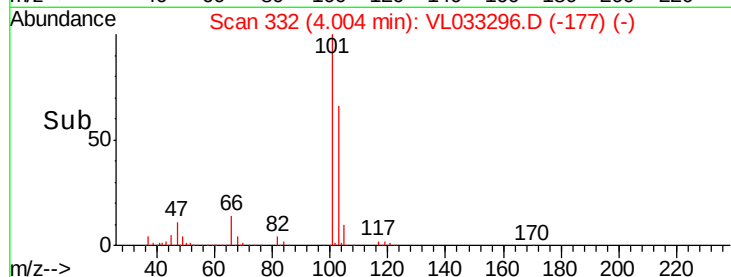
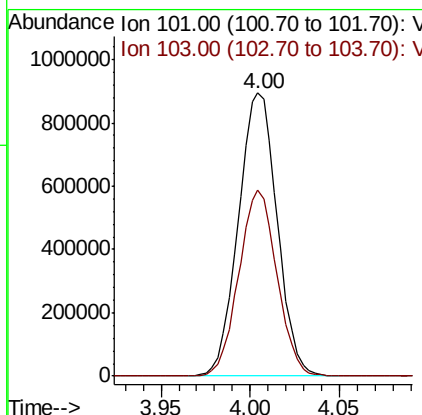
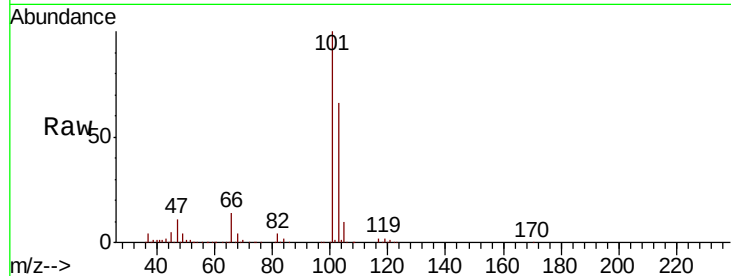
#11
 Trichlorofluoromethane
 Concen: 8.240 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0312ABS02

Tgt Ion:101 Resp: 1360851
 Ion Ratio Lower Upper
 101 100
 103 65.5 51.8 77.8

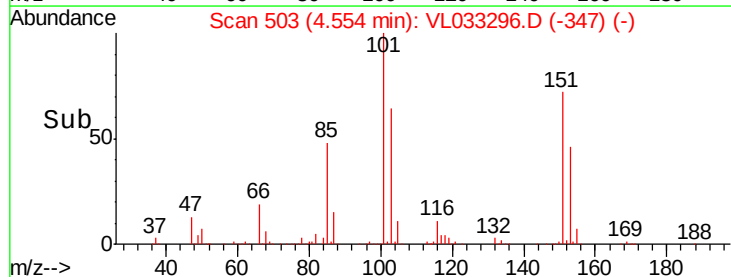
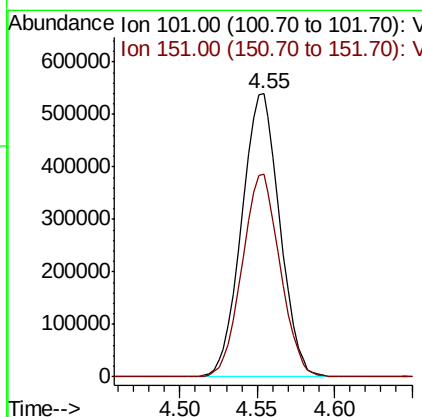
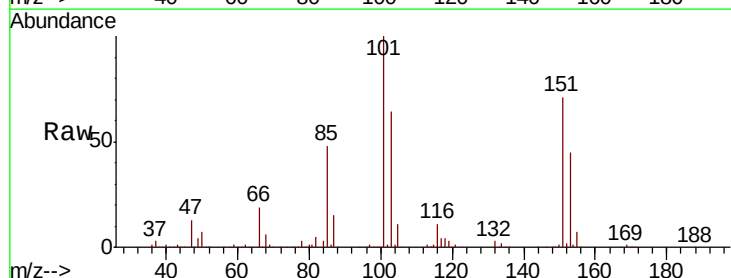
Manual Integrations
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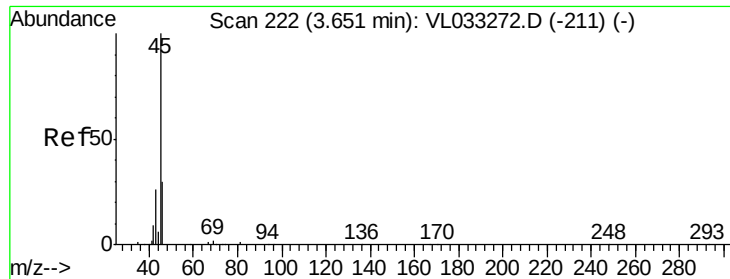
MMDadoda
 3/14/2019 5:06:35 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.785 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Tgt Ion:101 Resp: 924843
 Ion Ratio Lower Upper
 101 100
 151 71.5 56.9 85.3





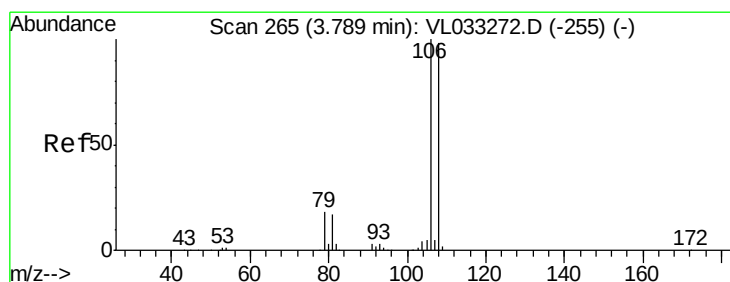
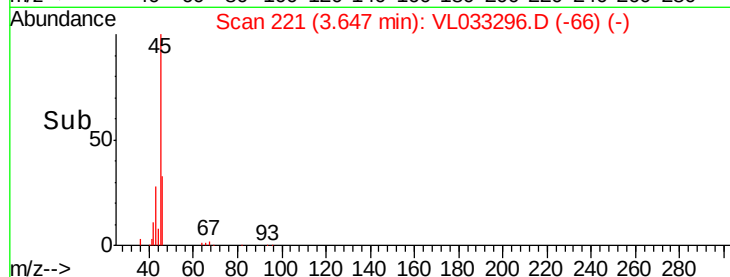
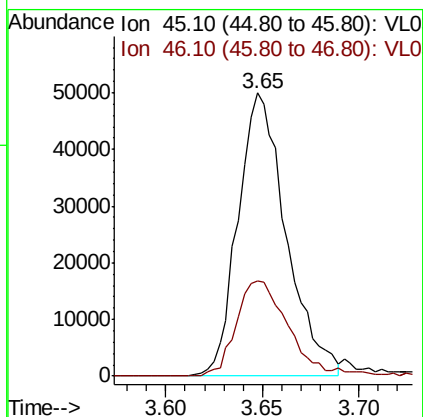
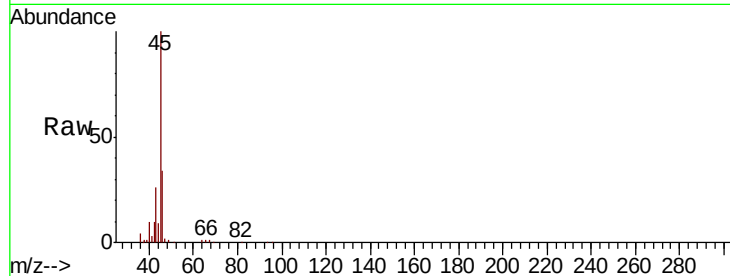
#13
Ethanol
Concen: 5.686 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Instrument :
MSVOA_L
ClientSampleId :
VL0312ABS02

Tgt Ion: 45 Resp: 86667
Ion Ratio Lower Upper
45 100
46 37.0 13.9 55.7

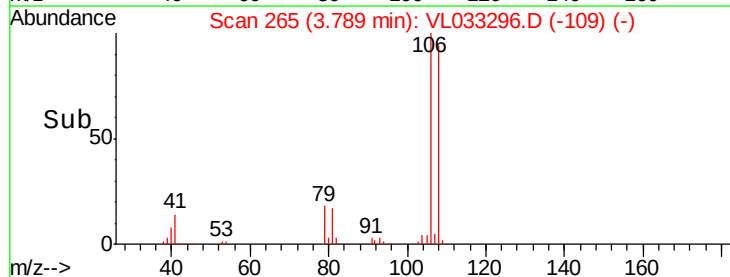
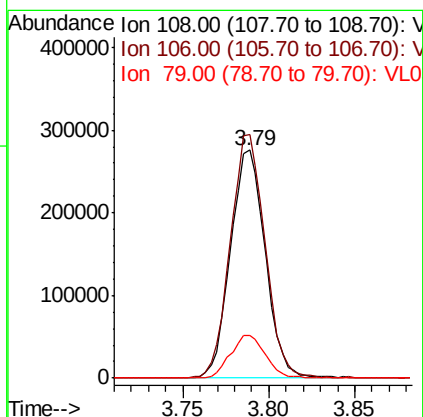
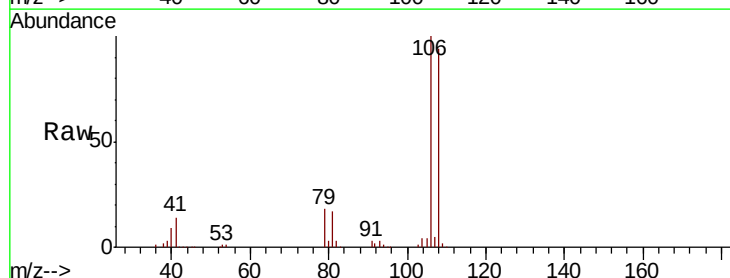
Manual Integrations
APPROVED

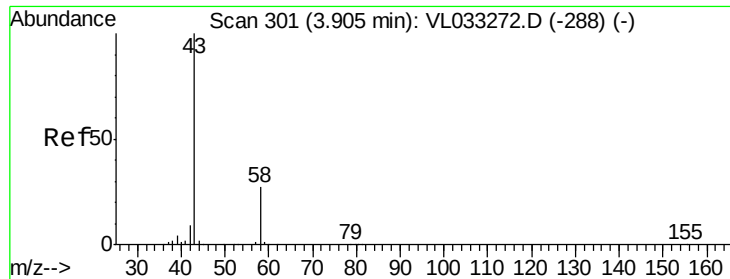
MMDadoda
3/14/2019 5:06:35 AM



#14
Bromoethene
Concen: 8.794 ppbv
RT: 3.79 min Scan# 265
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Tgt Ion: 108 Resp: 387634
Ion Ratio Lower Upper
108 100
106 107.2 85.9 128.9
79 18.9 14.9 22.3





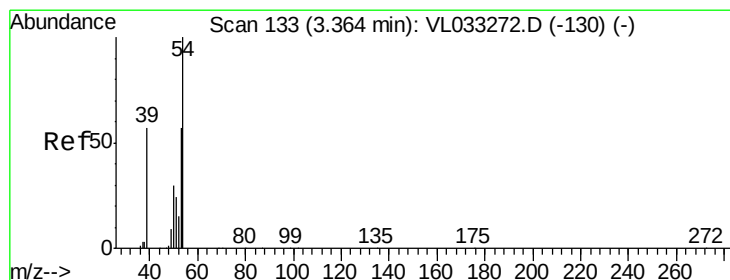
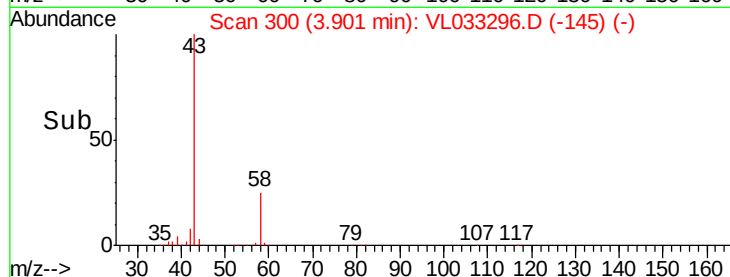
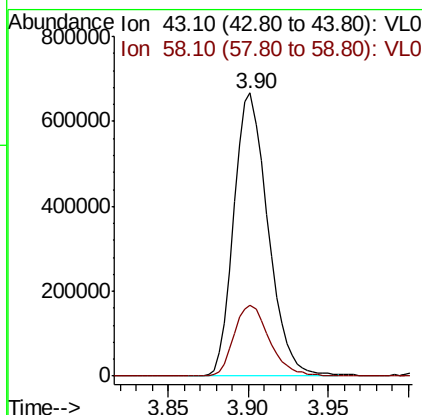
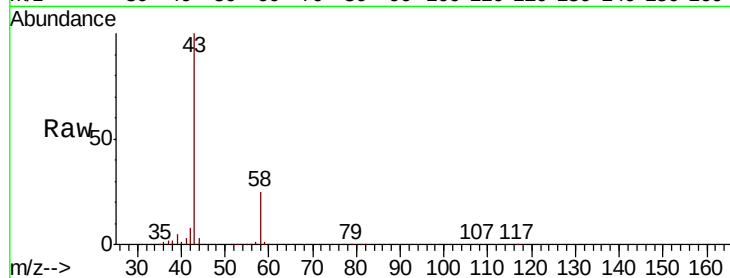
#15
Acetone
Concen: 7.628 ppbv
RT: 3.90 min Scan# 300
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Instrument :
MSVOA_L
ClientSampleId :
VL0312ABS02

Tgt Ion: 43 Resp: 966660
Ion Ratio Lower Upper
43 100
58 26.2 21.1 31.7

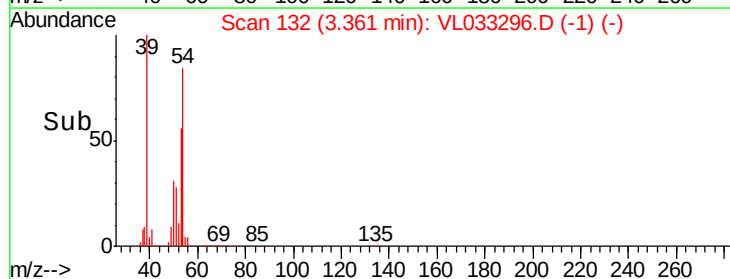
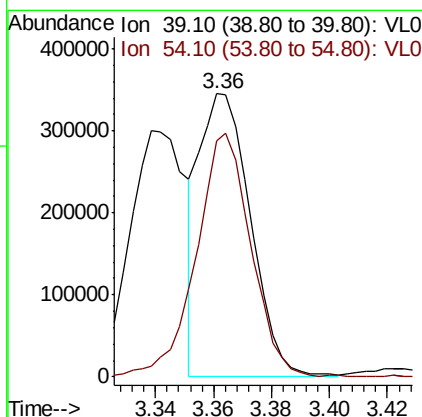
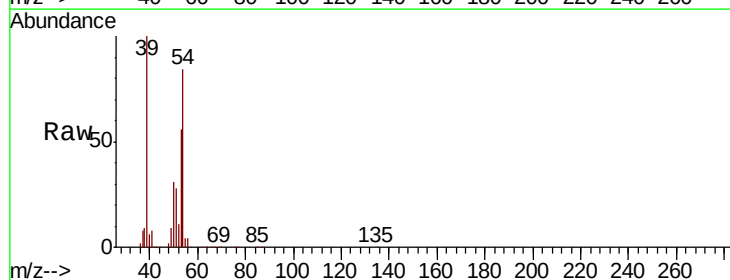
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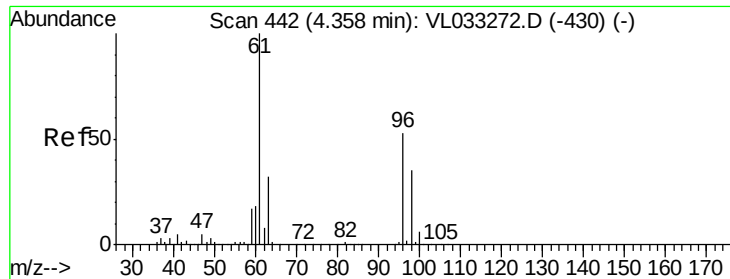
MMDadoda
3/14/2019 5:06:35 AM



#16
1,3-Butadiene
Concen: 9.206 ppbv
RT: 3.36 min Scan# 132
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Tgt Ion: 39 Resp: 421260
Ion Ratio Lower Upper
39 100
54 93.3 76.6 114.8





#17

tert-Butyl alcohol

Concen: 8.740 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Instrument :

MSVOA_L

ClientSampleId :

VL0312ABS02

Tgt Ion: 59 Resp: 148642

Ion Ratio Lower Upper

59 100

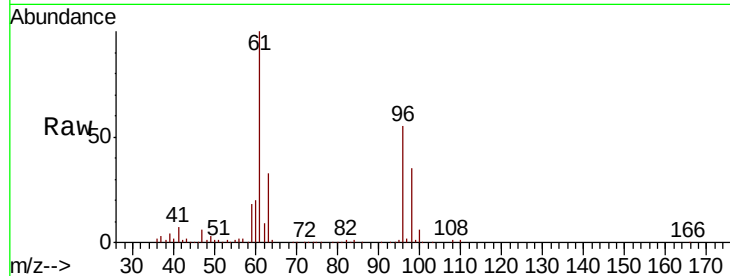
57 10.0 7.5 11.3

Manual Integrations

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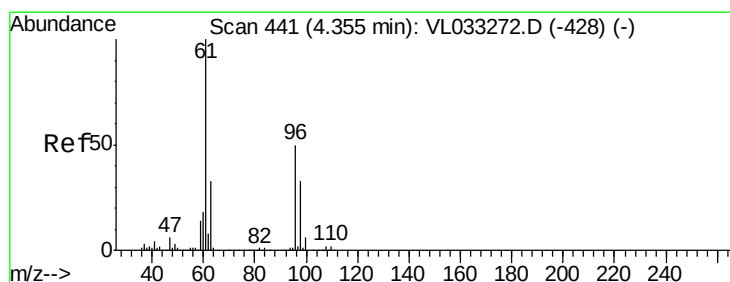
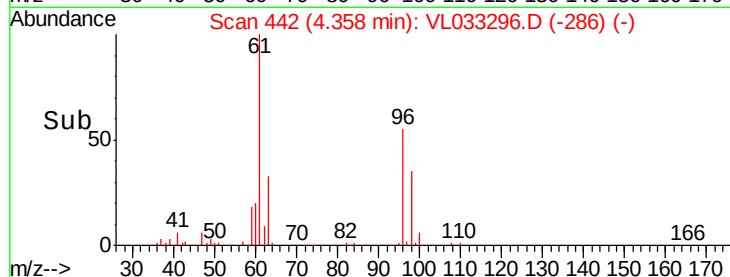
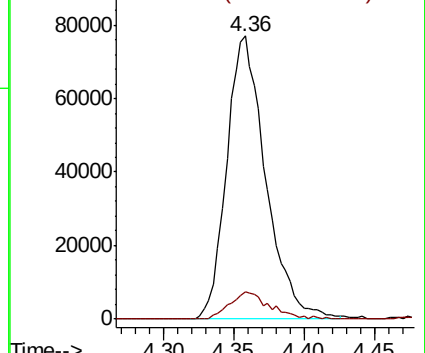
MMDadoda

3/14/2019 5:06:35 AM



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 9.700 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

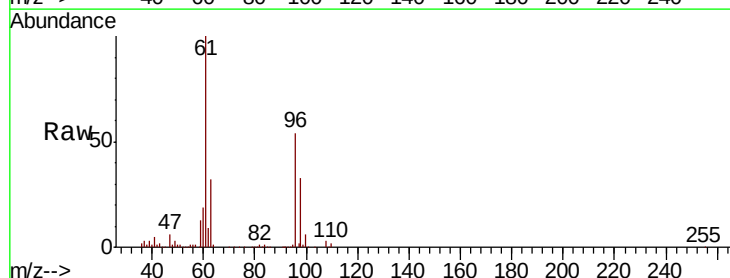
Tgt Ion: 96 Resp: 405833

Ion Ratio Lower Upper

96 100

61 184.2 158.9 238.3

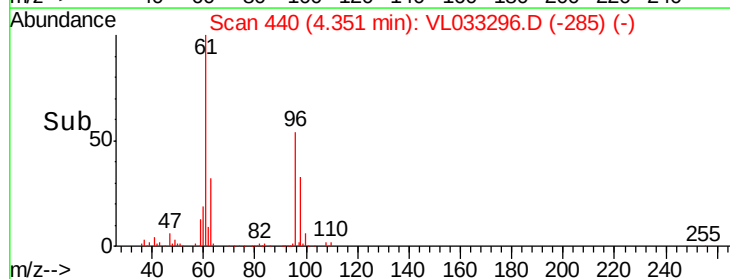
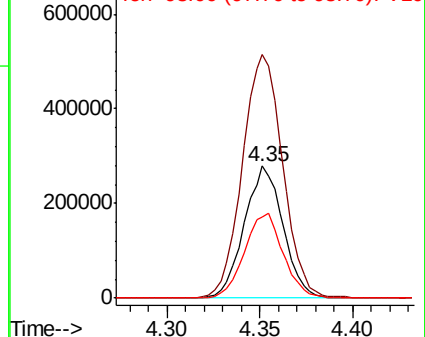
98 61.1 52.4 78.6

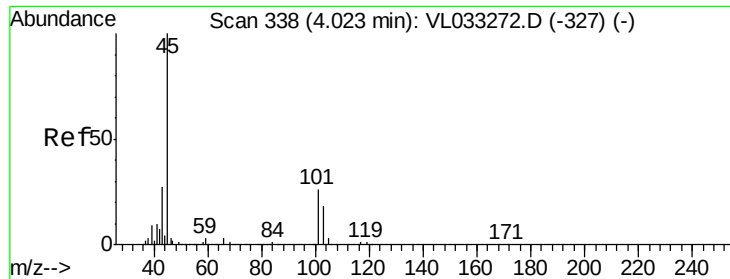


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





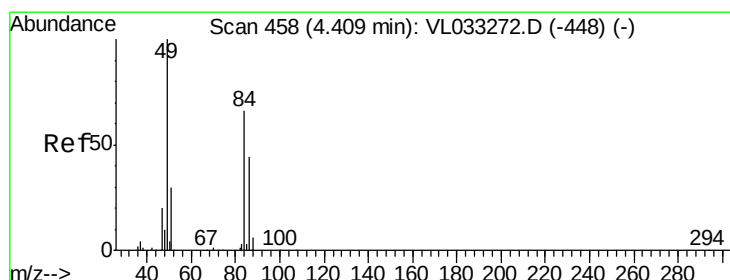
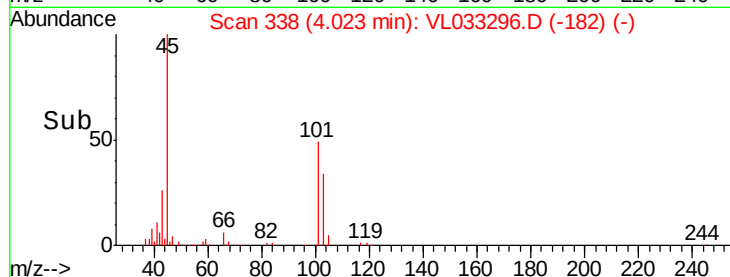
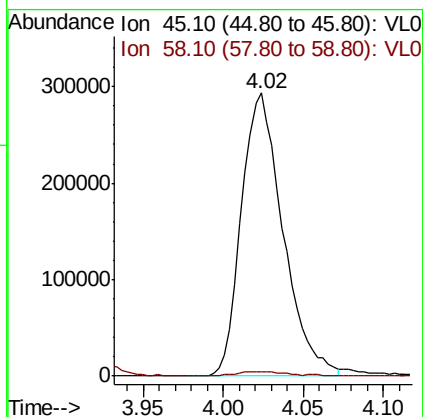
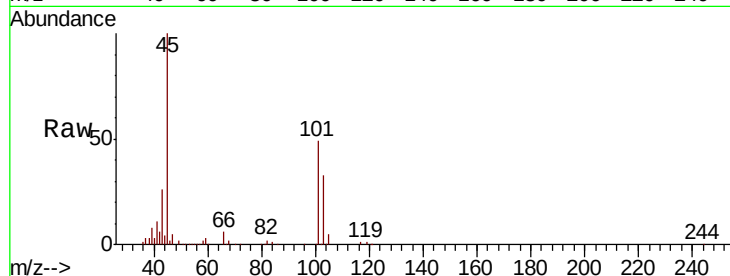
#19
Isopropyl Alcohol
Concen: 6.799 ppbv
RT: 4.02 min Scan# 338
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Instrument :
MSVOA_L
ClientSampleId :
VL0312ABS02

Tgt Ion: 45 Resp: 520761
Ion Ratio Lower Upper
45 100
58 1.8 1.4 2.2

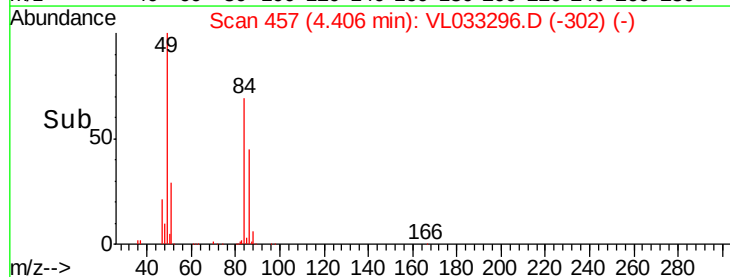
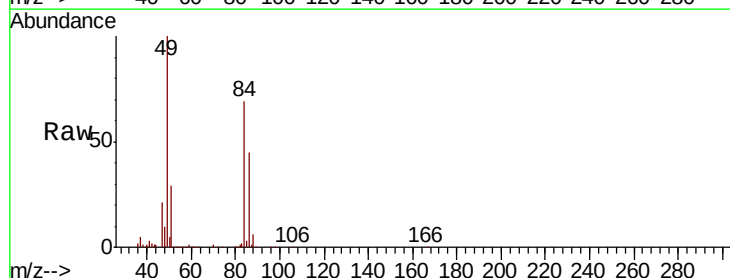
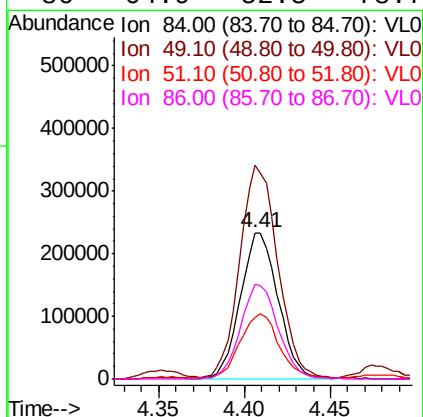
Manual Integrations
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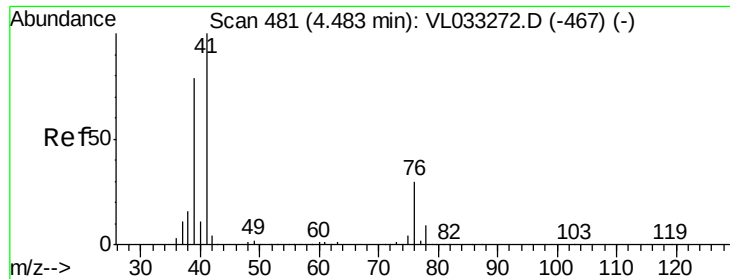
MMDadoda
3/14/2019 5:06:35 AM



#20
Methylene Chloride
Concen: 8.446 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Tgt Ion: 84 Resp: 355857
Ion Ratio Lower Upper
84 100
49 144.8 120.3 180.5
51 41.1 36.2 54.4
86 64.9 52.5 78.7





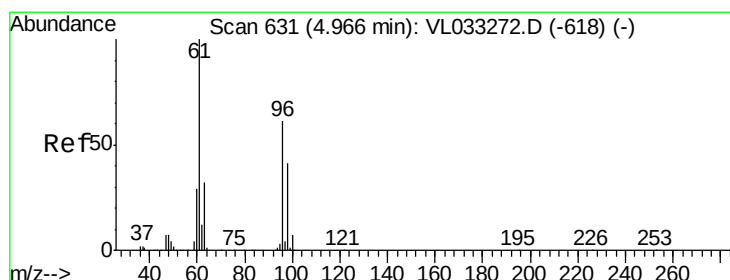
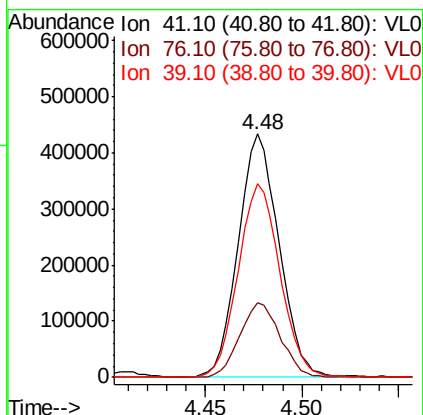
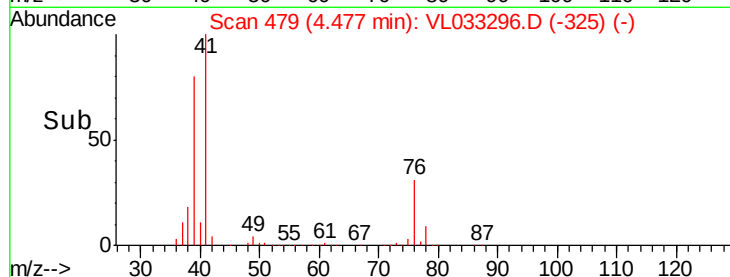
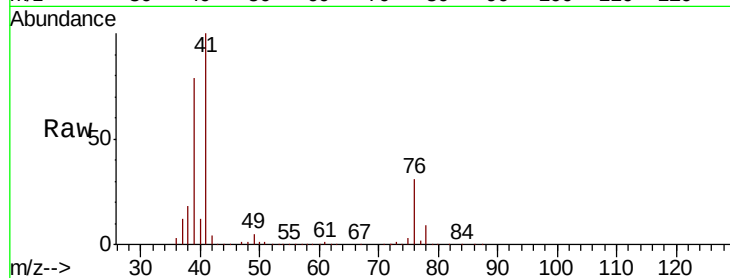
#21
 Allyl Chloride
 Concen: 10.049 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. -0.01 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0312ABS02

Tgt Ion	Ratio	Lower	Upper
41	100		
76	30.8	25.0	37.4
39	81.7	64.2	96.4

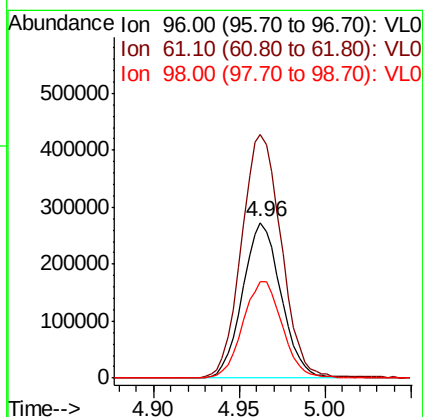
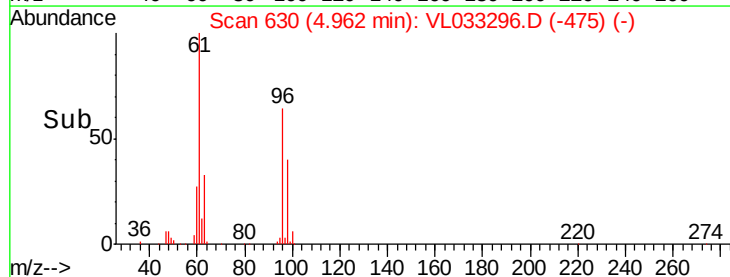
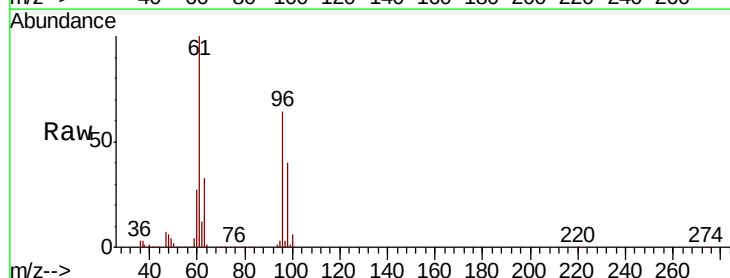
Manual Integrations
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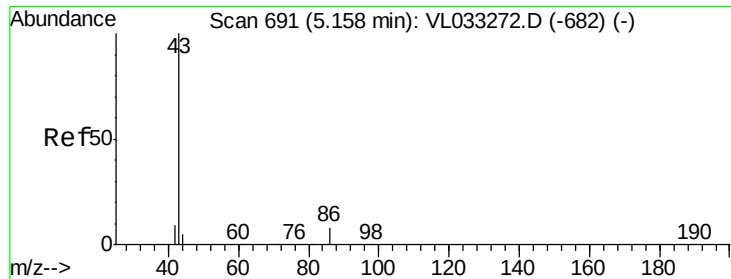
MMDadoda
 3/14/2019 5:06:35 AM



#22
 trans-1,2-Dichloroethene
 Concen: 9.468 ppbv
 RT: 4.96 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.6	131.6	197.4
98	62.3	54.1	81.1





#23

Vinyl Acetate

Concen: 9.558 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Instrument :

MSVOA_L

ClientSampleId :

VL0312ABS02

Tgt Ion: 43 Resp: 1517651

Ion Ratio Lower Upper

43 100

86 7.2 5.5 8.3

42 9.0 7.8 11.6

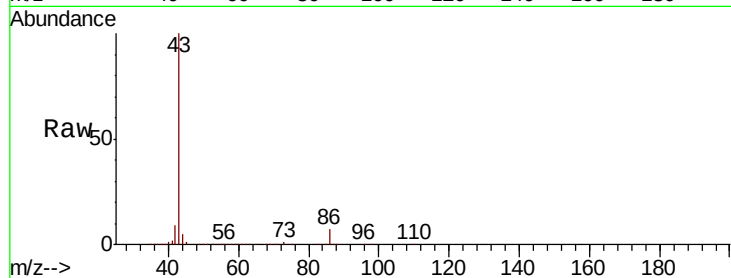
44 5.2 3.6 5.4

Manual Integrations

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MMDadoda

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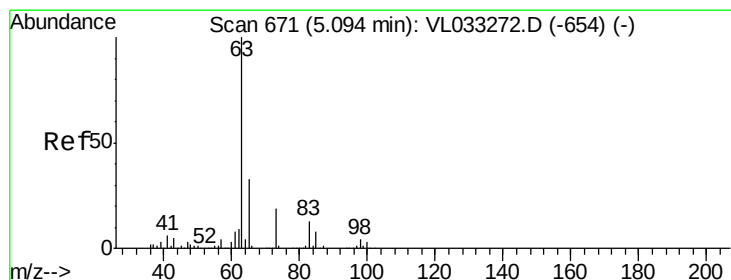
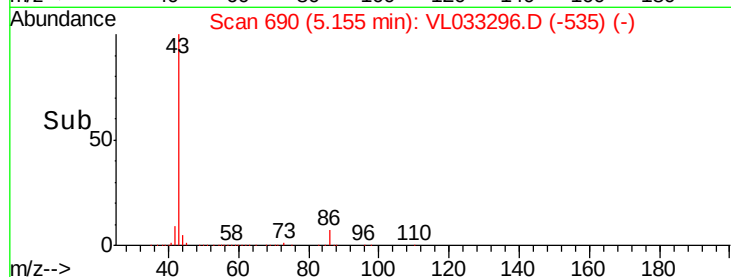
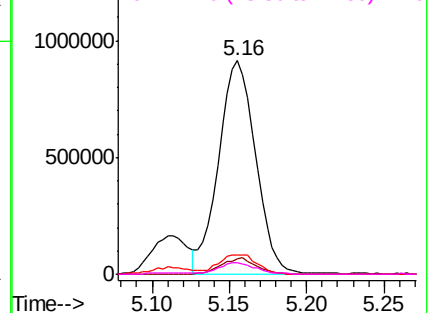


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.101 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

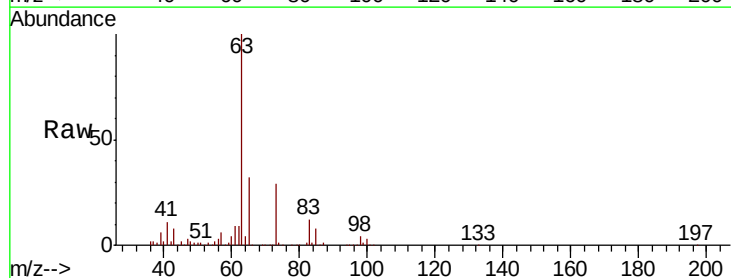
Tgt Ion: 63 Resp: 1048071

Ion Ratio Lower Upper

63 100

98 4.2 2.2 6.6

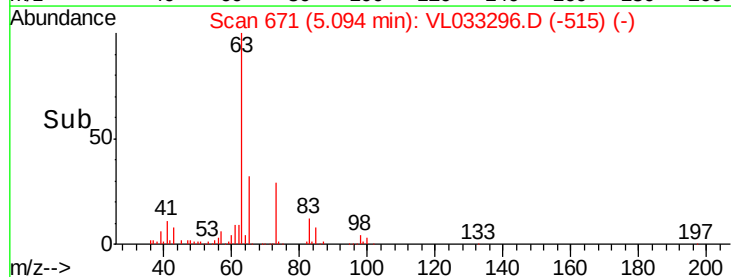
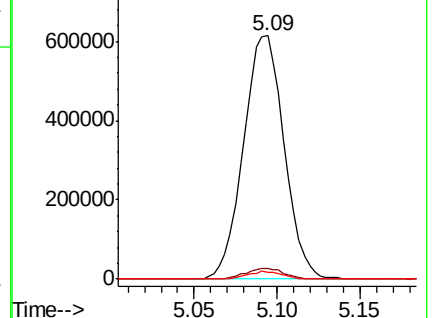
100 2.8 1.5 4.4

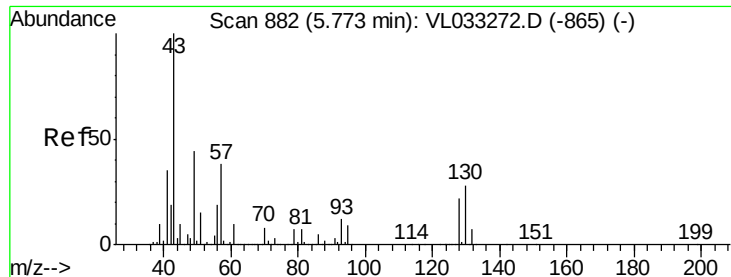


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 9.038 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

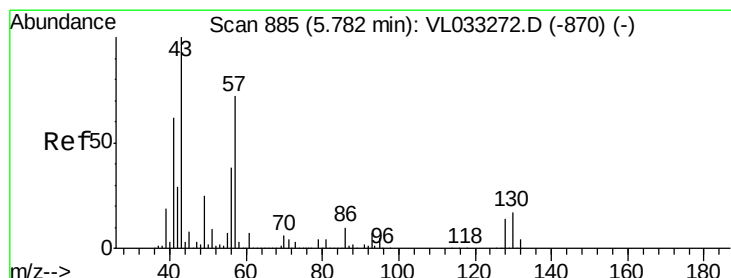
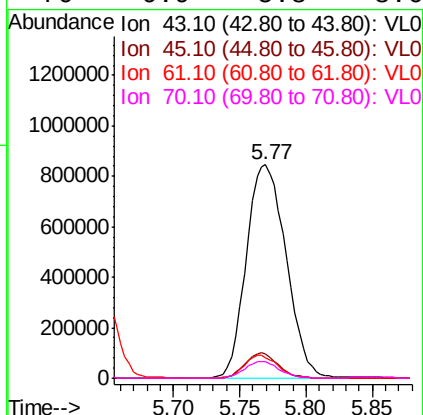
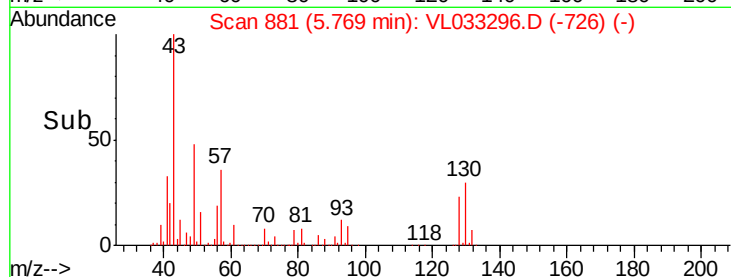
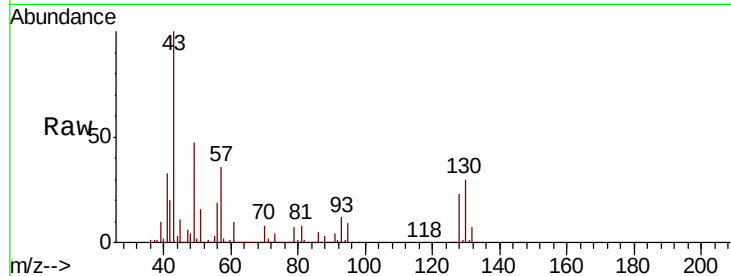
Instrument :
MSVOA_L
ClientSampleId :
VL0312ABS02

Tgt Ion: 43 Resp: 1765000

Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.6
61	9.3	7.3	10.9
70	6.9	5.8	8.6

Manual Integrations
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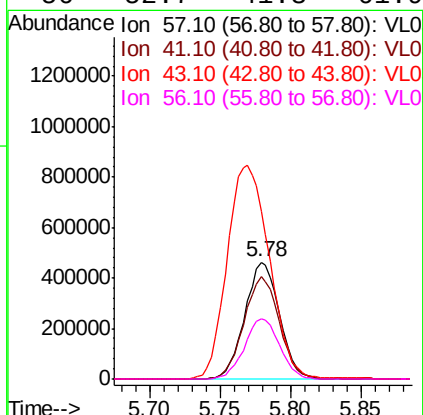
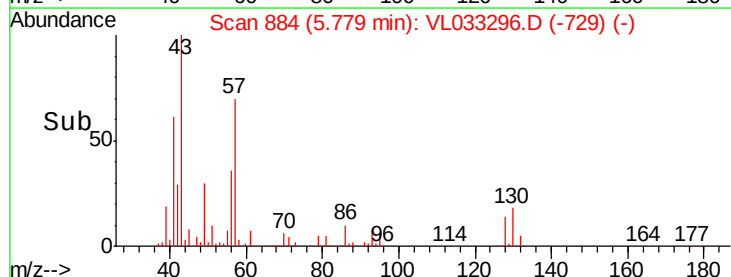
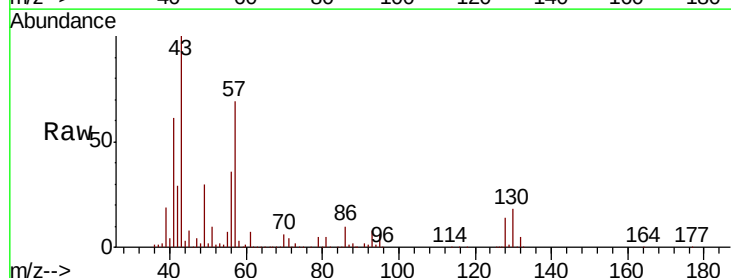
MMDadoda
3/14/2019 5:06:35 AM

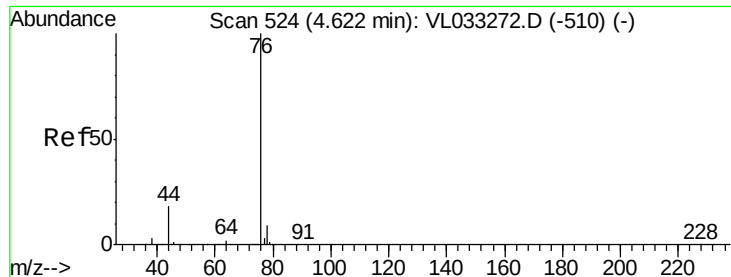


#26
Hexane
Concen: 8.675 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Tgt Ion: 57 Resp: 795159

Ion	Ratio	Lower	Upper
57	100		
41	89.6	70.7	106.1
43	223.1	178.6	267.8
56	52.7	41.3	61.9





#27

Carbon Disulfide

Concen: 10.552 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Instrument :

MSVOA_L

ClientSampleId :

VL0312ABS02

Tgt Ion: 76 Resp: 1026244

Ion Ratio Lower Upper

76 100

44 18.4 15.1 22.7

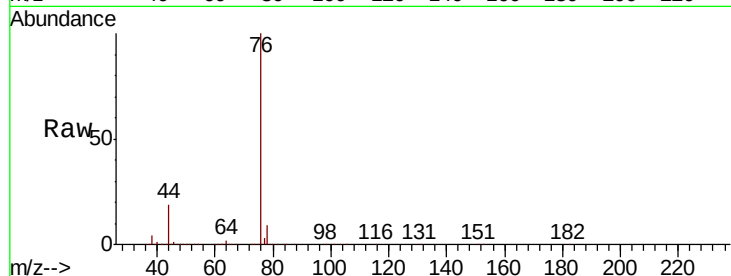
78 9.2 7.4 11.0

Manual Integrations

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MMDadoda

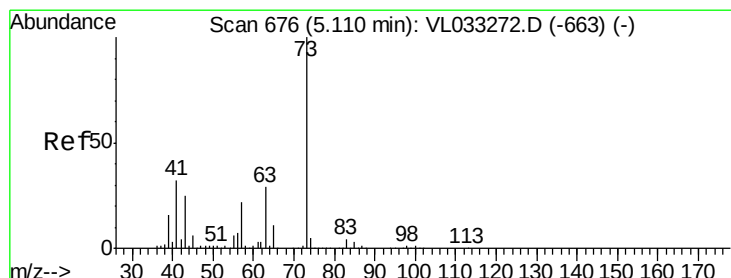
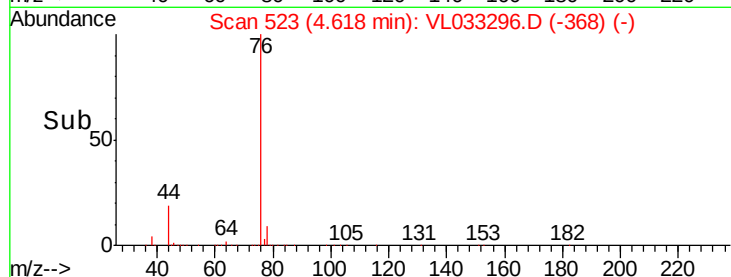
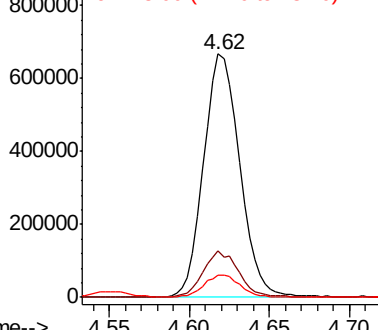
3/14/2019 5:06:35 AM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 8.863 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033296.D

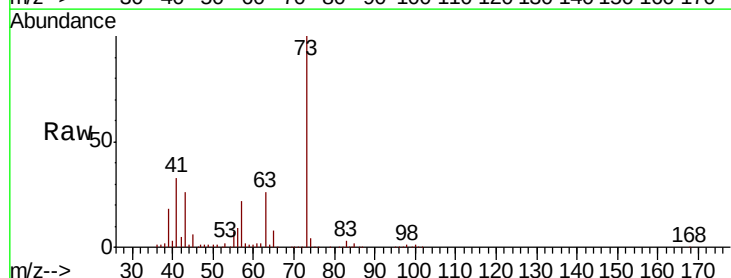
Acq: 12 Mar 2019 23:36

Tgt Ion: 73 Resp: 1152998

Ion Ratio Lower Upper

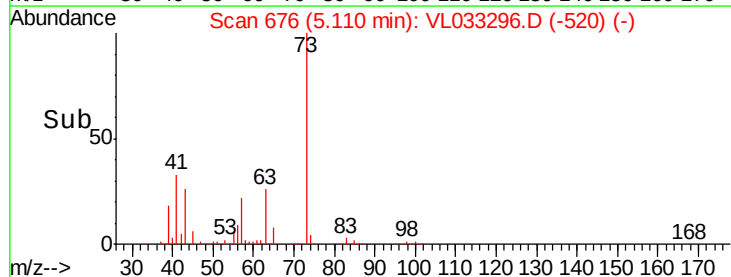
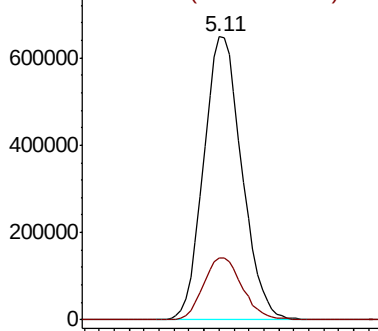
73 100

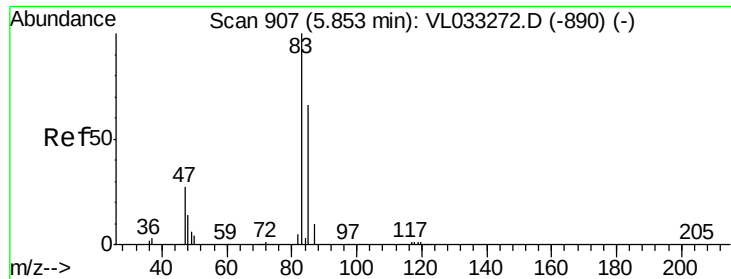
57 22.6 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





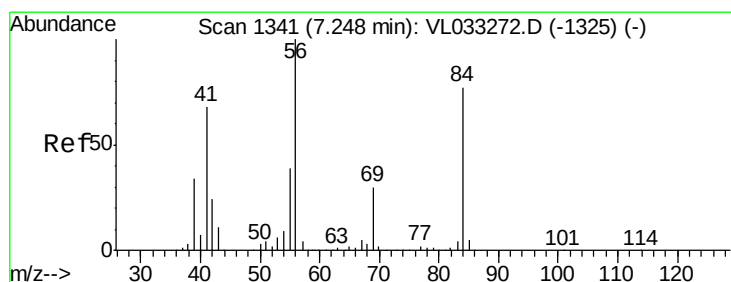
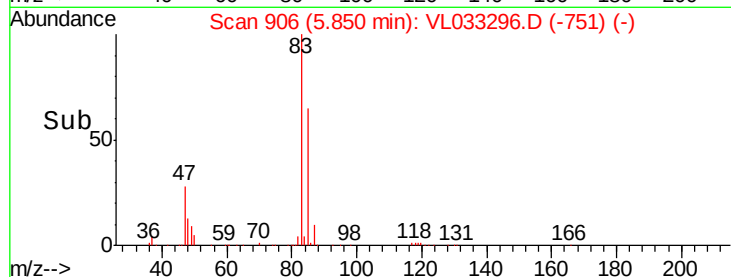
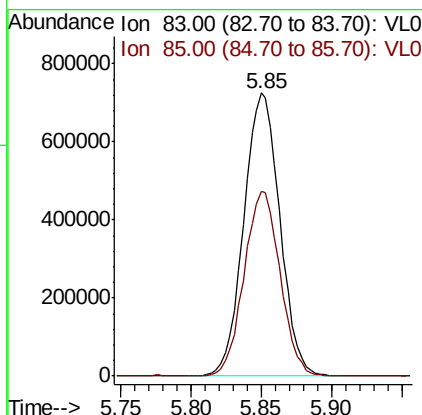
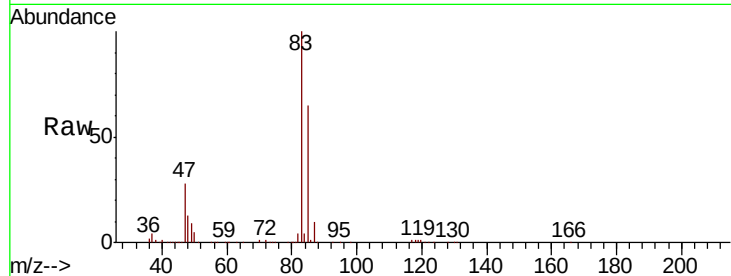
#29
Chloroform
Concen: 9.329 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Instrument :
MSVOA_L
ClientSampleId :
VL0312ABS02

Tgt Ion: 83 Resp: 1300985
Ion Ratio Lower Upper
83 100
85 65.3 52.5 78.7

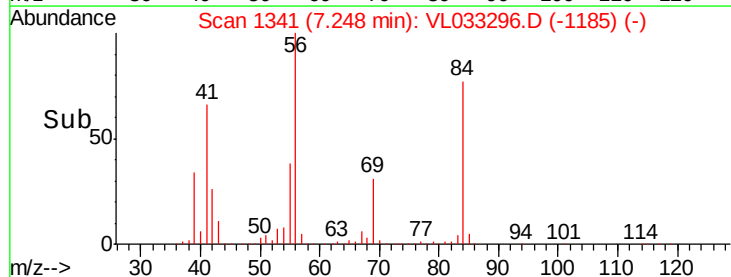
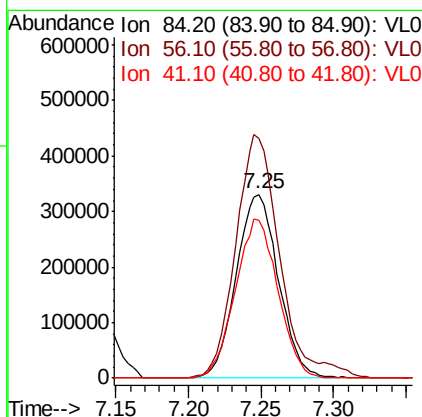
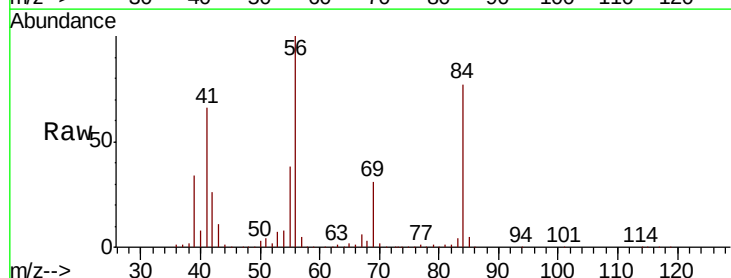
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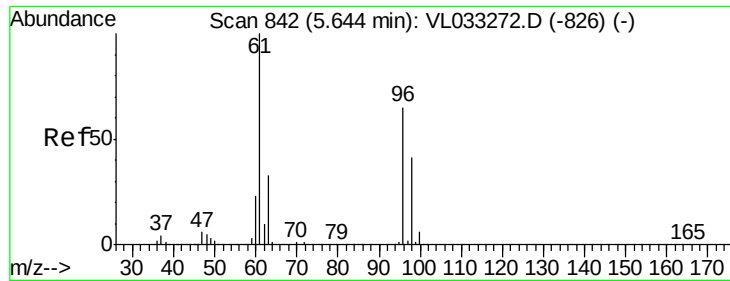
MMDadoda
3/14/2019 5:06:35 AM



#30
Cyclohexane
Concen: 9.448 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Tgt Ion: 84 Resp: 671449
Ion Ratio Lower Upper
84 100
56 138.7 112.0 168.0
41 87.1 69.9 104.9





#31

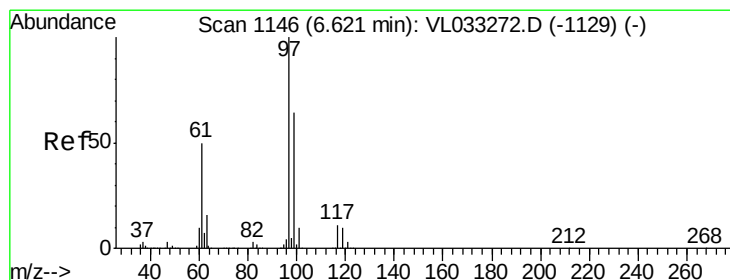
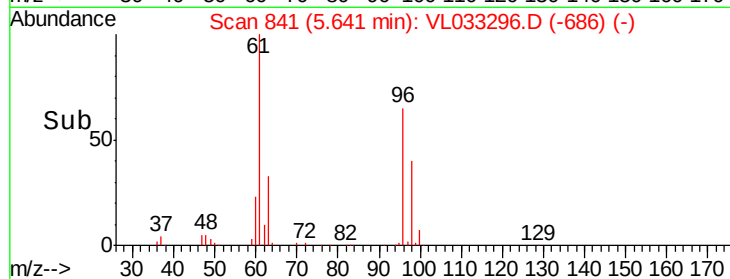
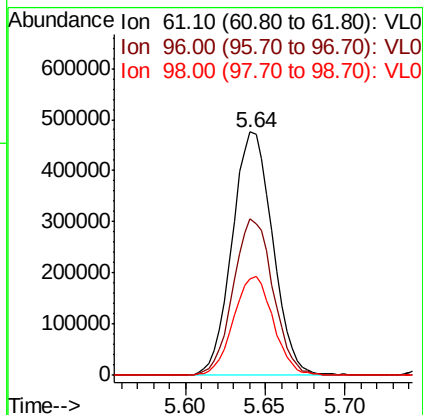
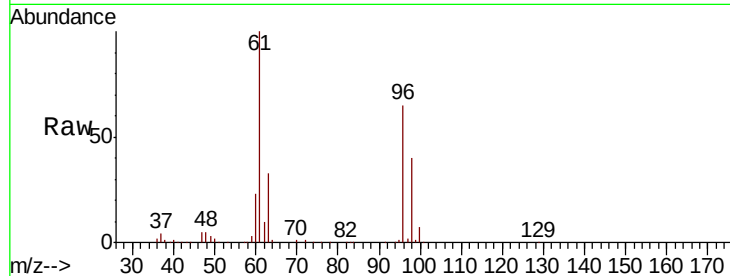
cis-1,2-Dichloroethene
 Concen: 9.337 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0312ABS02

Tgt Ion	Ratio	Lower	Upper
61	100		
96	64.4	51.8	77.8
98	39.7	32.9	49.3

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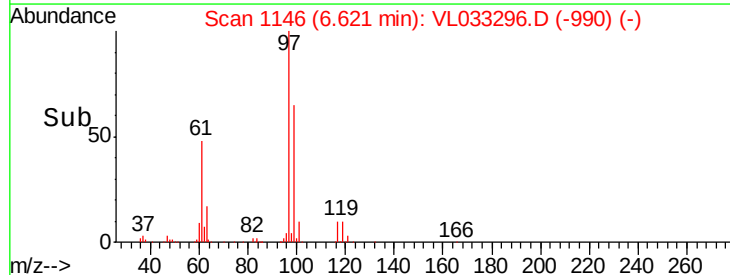
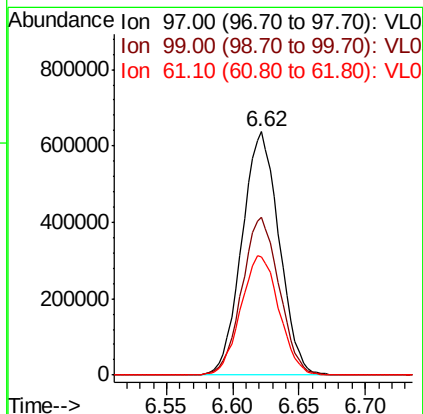
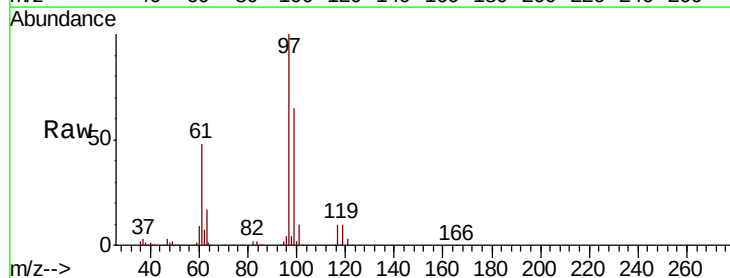
MMDadoda
 3/14/2019 5:06:35 AM

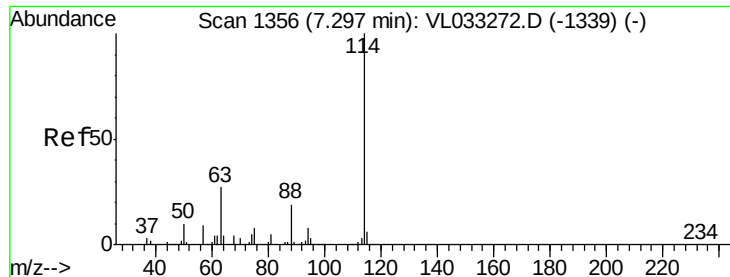


#32

1,1,1-Trichloroethane
 Concen: 9.165 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.7	77.5
61	50.5	39.7	59.5





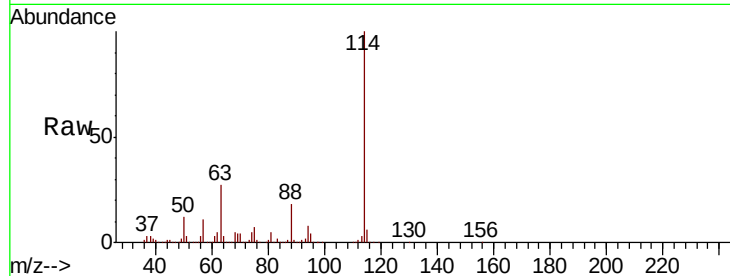
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0312ABS02

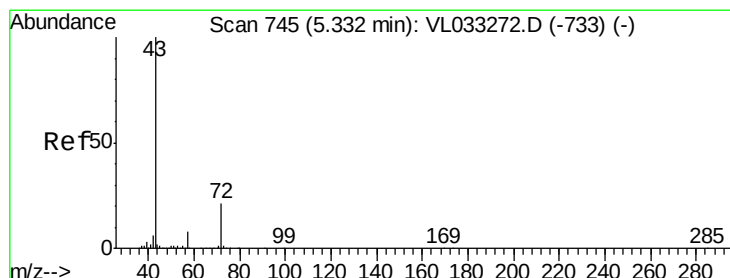
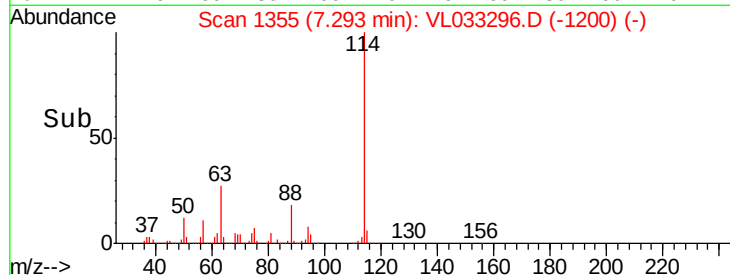
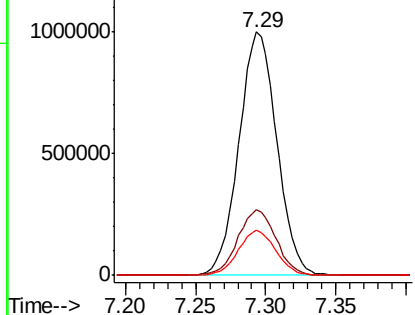
Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.5	21.5	32.3
88	18.3	14.6	22.0

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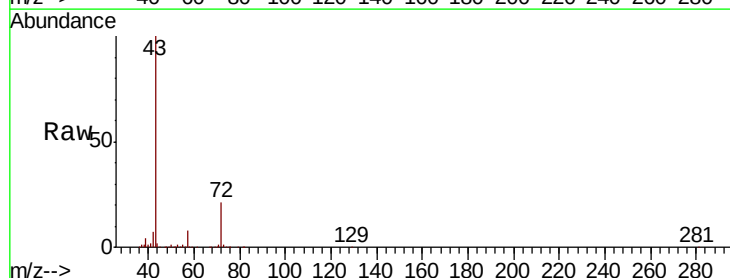


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

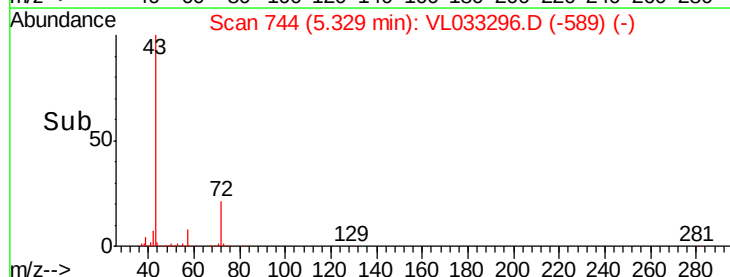
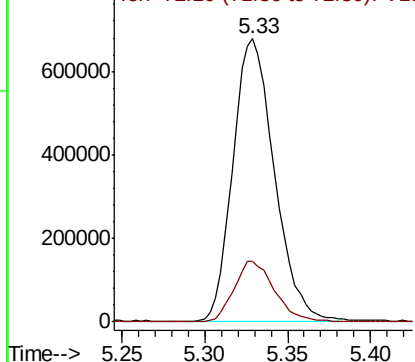


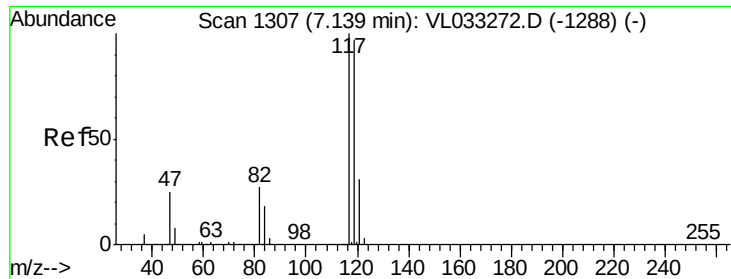
#34
 2-Butanone
 Concen: 9.456 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.0	17.0	25.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.879 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Instrument :

MSVOA_L

ClientSampleId :

VL0312ABS02

Tgt Ion: 117 Resp: 1360992

Ion Ratio Lower Upper

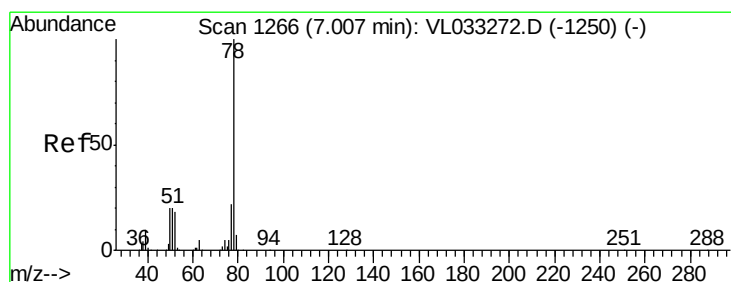
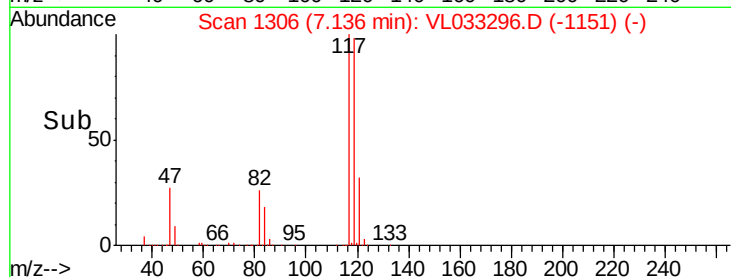
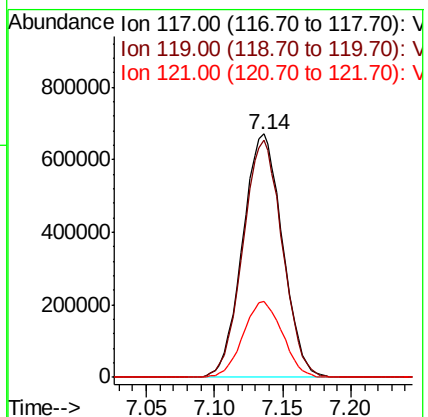
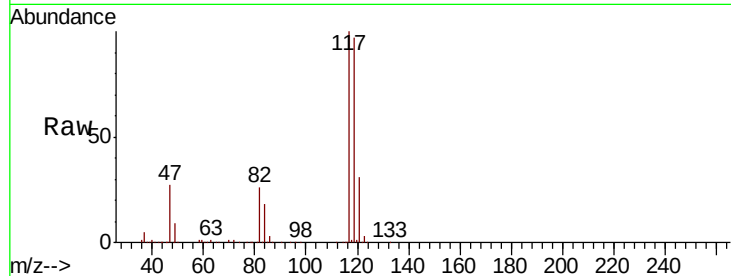
117 100

119 97.4 77.4 116.0

121 31.3 24.9 37.3

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#36

Benzene

Concen: 9.519 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

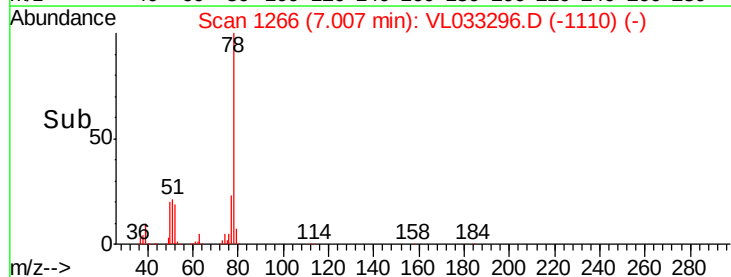
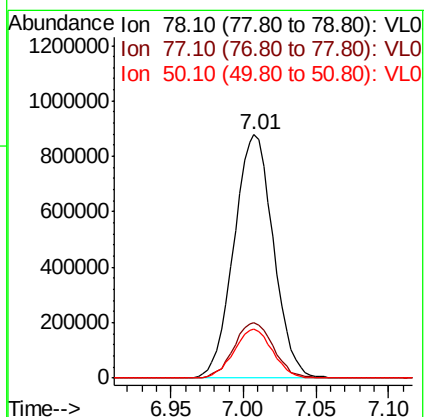
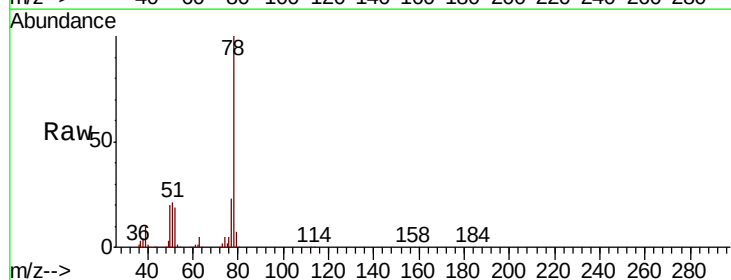
Tgt Ion: 78 Resp: 1655245

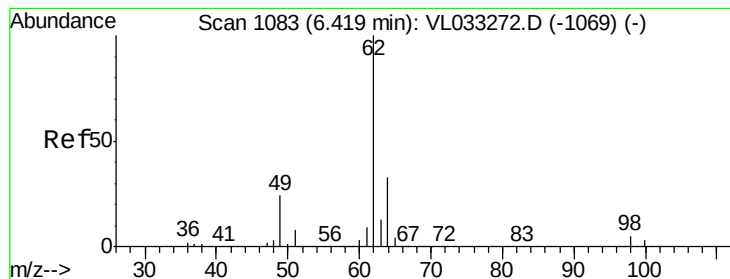
Ion Ratio Lower Upper

78 100

77 22.7 17.7 26.5

50 20.0 15.7 23.5





#37

1,2-Dichloroethane

Concen: 9.605 ppbv

RT: 6.41 min Scan# 1081

Delta R.T. -0.01 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Instrument :

MSVOA_L

ClientSampleId :

VL0312ABS02

Tgt Ion: 62 Resp: 1001757

Ion Ratio Lower Upper

62 100

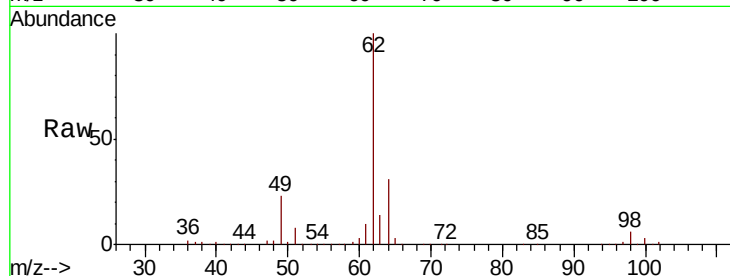
98 5.5 4.5 6.7

Manual Integrations

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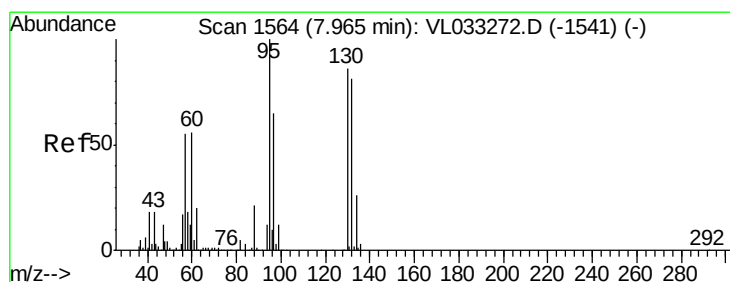
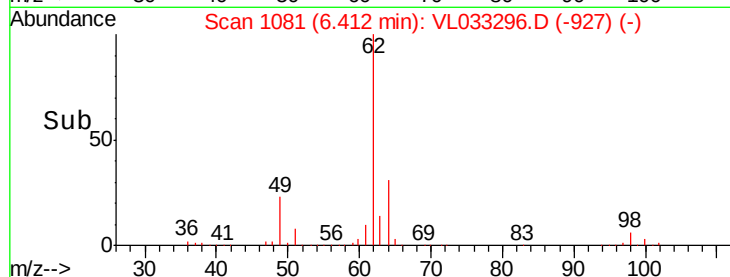
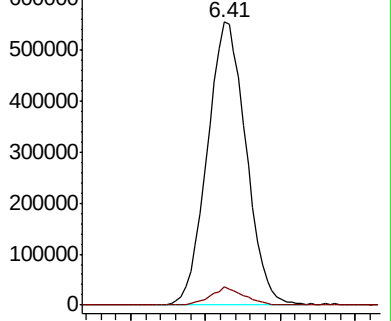
MMDadoda

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 9.295 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Tgt Ion: 130 Resp: 630054

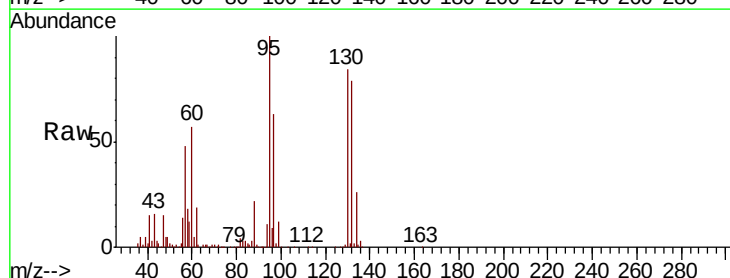
Ion Ratio Lower Upper

130 100

95 119.9 93.3 139.9

132 94.5 75.4 113.2

97 75.9 60.6 91.0

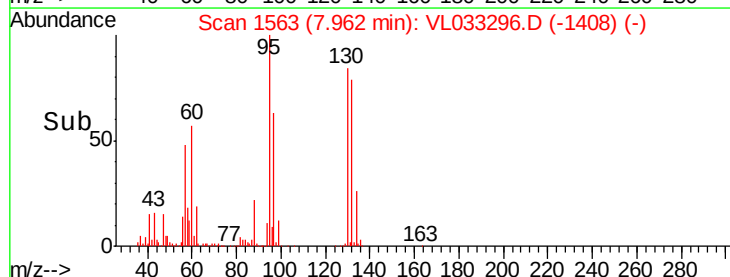
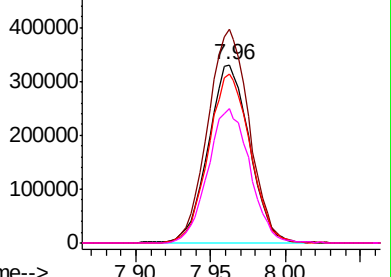


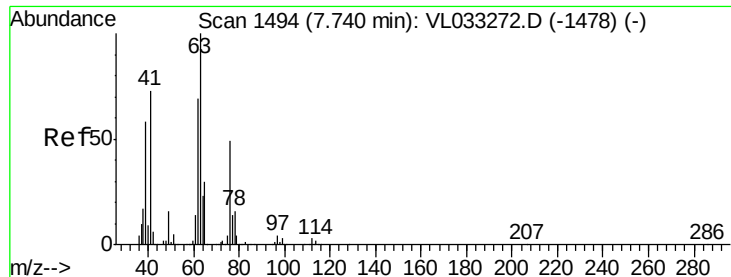
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





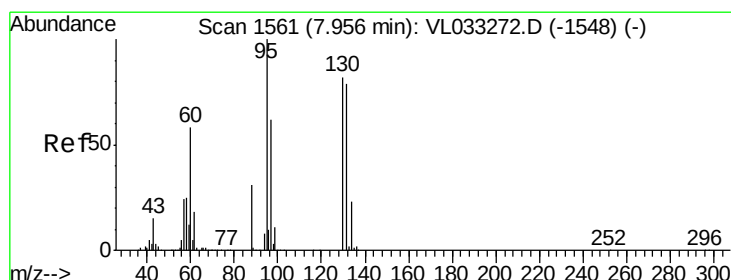
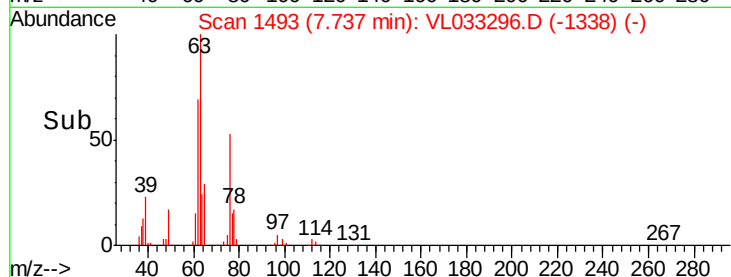
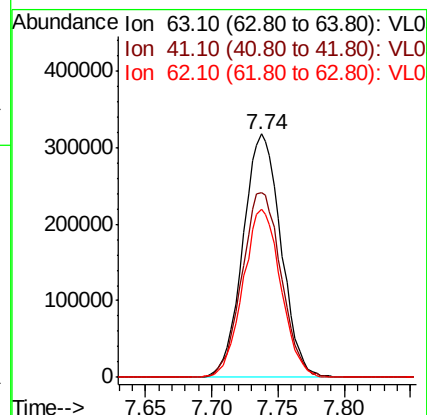
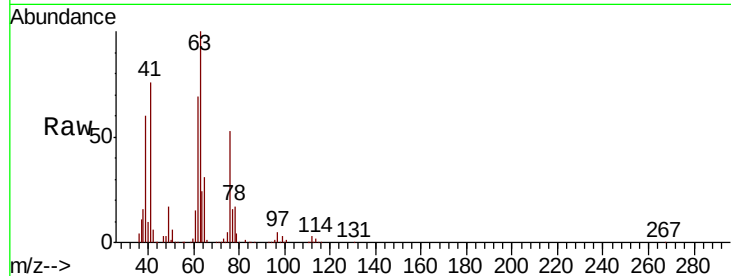
#39
 1,2-Dichloropropane
 Concen: 9.634 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0312ABS02

Tgt Ion	Ratio	Lower	Upper
63	100		
41	75.9	58.3	87.5
62	69.1	55.3	82.9

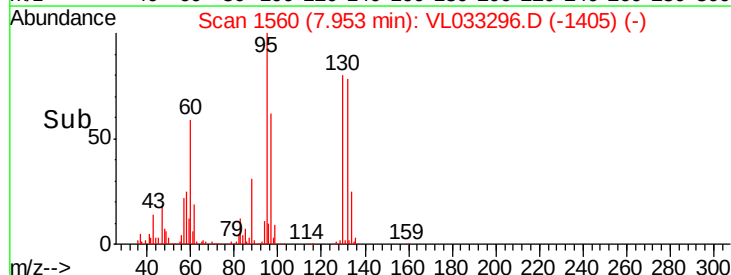
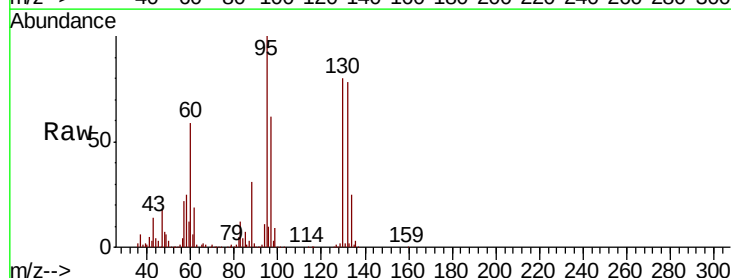
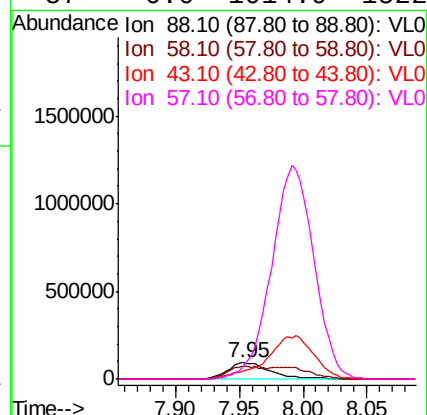
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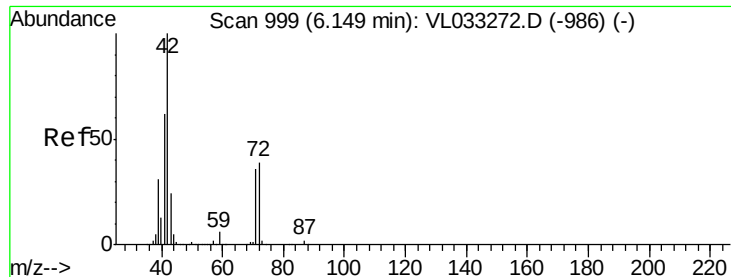
MMDadoda
 3/14/2019 5:06:35 AM



#40
 1,4-Dioxane
 Concen: 8.868 ppbv m
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
88	100		
58	132.6	107.0	160.6
43	0.0	230.2	345.4#
57	0.0	1014.9	1522.3#





#41

Tetrahydrofuran

Concen: 9.667 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Instrument :

MSVOA_L

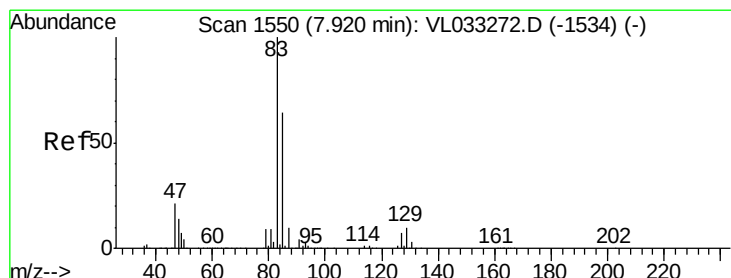
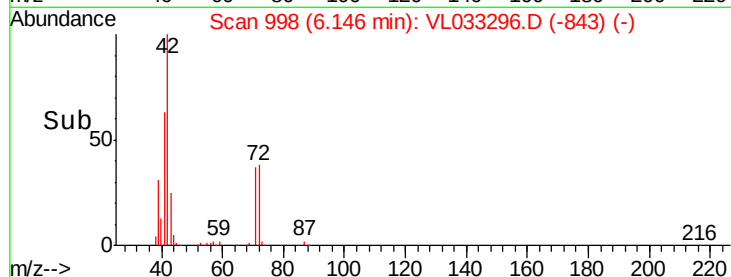
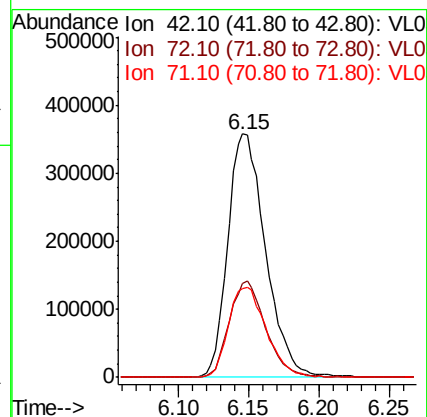
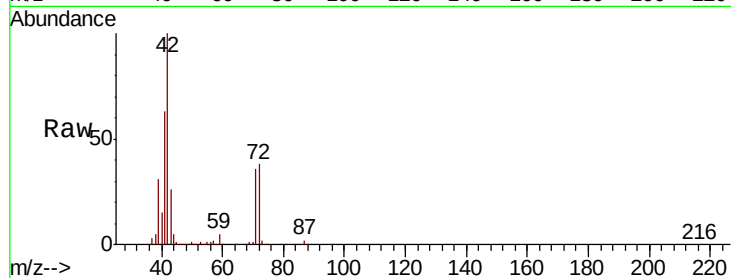
ClientSampleId :

VL0312ABS02

Tgt Ion:	42	Resp:	669158
Ion Ratio		Lower	Upper
42	100		
72	38.4	30.6	46.0
71	37.6	29.7	44.5

Manual Integrations
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#42

Bromodichloromethane

Concen: 10.206 ppbv

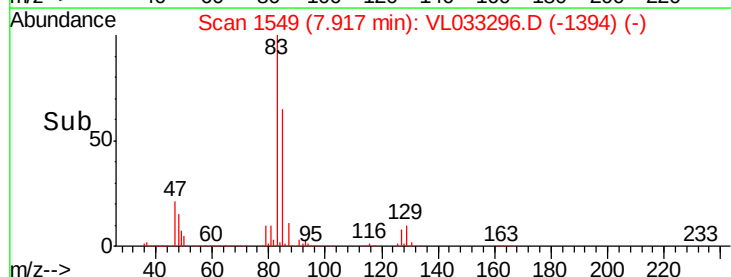
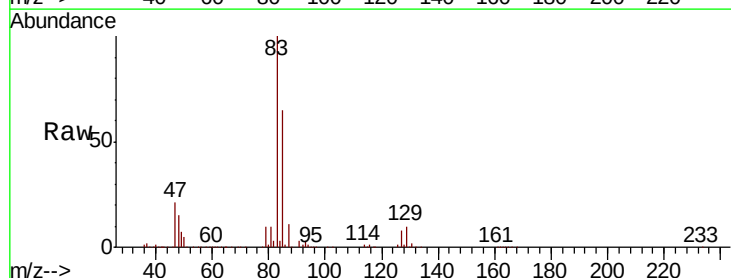
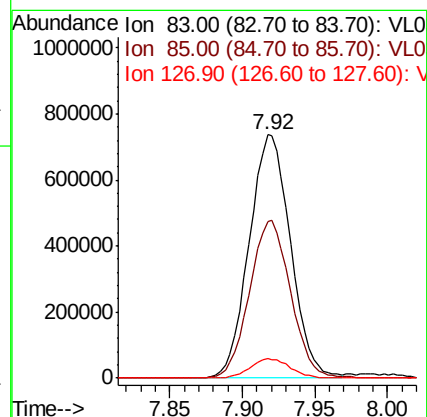
RT: 7.92 min Scan# 1549

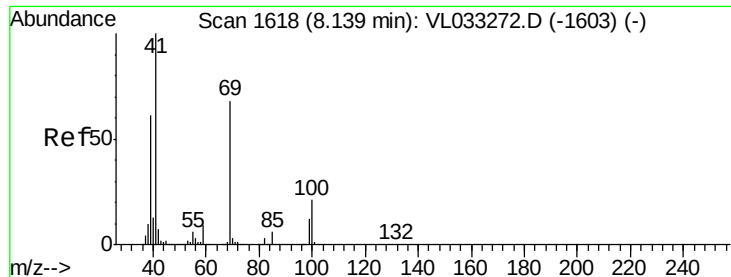
Delta R.T. -0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Tgt Ion:	83	Resp:	1465386
Ion Ratio		Lower	Upper
83	100		
85	64.5	51.0	76.4
127	7.9	6.0	9.0





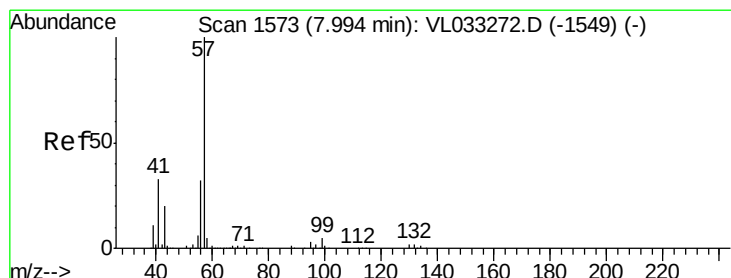
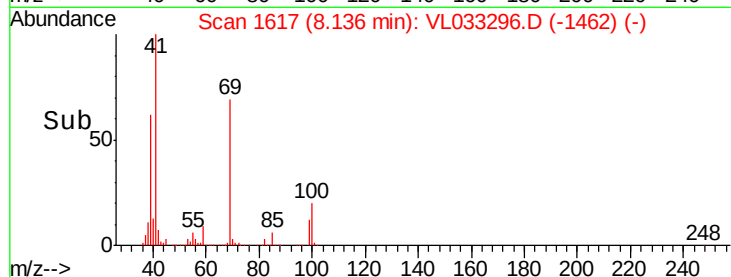
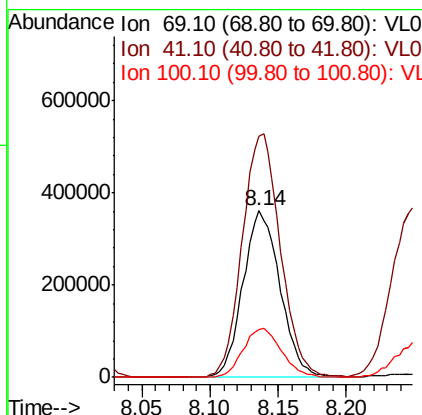
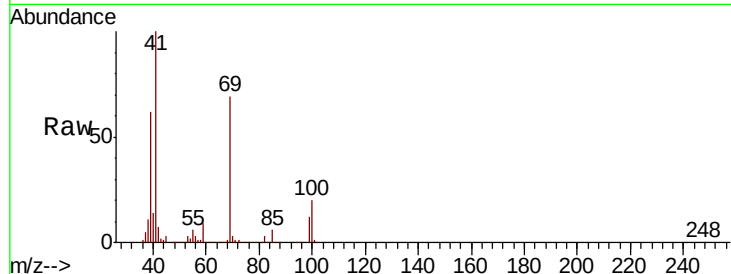
#43
Methyl Methacrylate
Concen: 10.091 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Instrument :
MSVOA_L
ClientSampleId :
VL0312ABS02

Tgt Ion	Ratio	Lower	Upper
69	100		
41	149.2	121.0	181.4
100	30.2	24.4	36.6

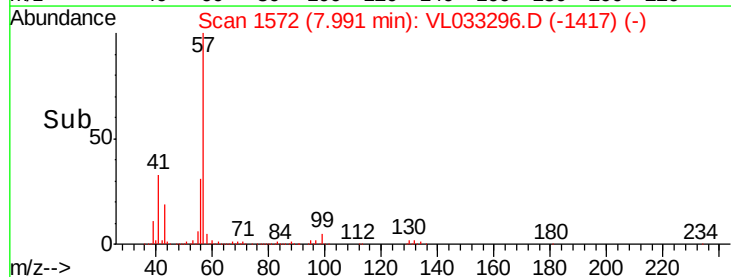
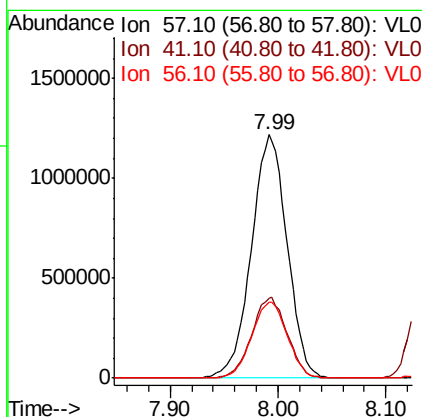
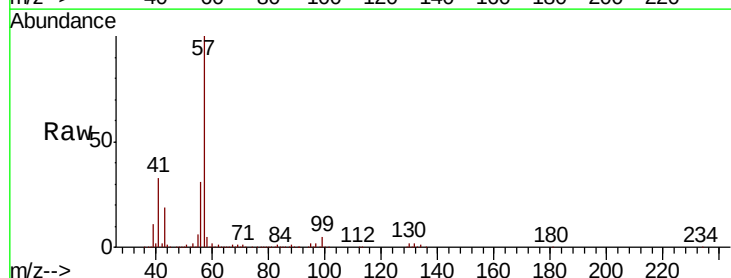
Manual Integrations
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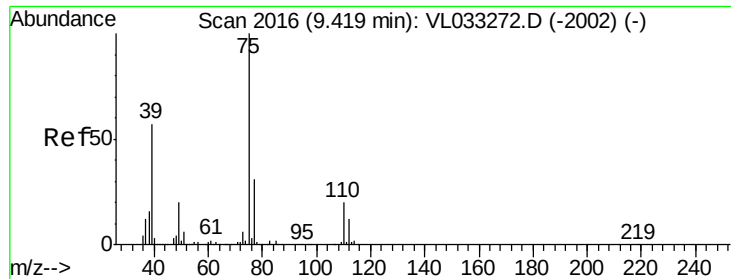
MMDadoda
3/14/2019 5:06:35 AM



#44
2,2,4-Trimethylpentane
Concen: 9.484 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.9	26.2	39.2
56	31.1	24.8	37.2





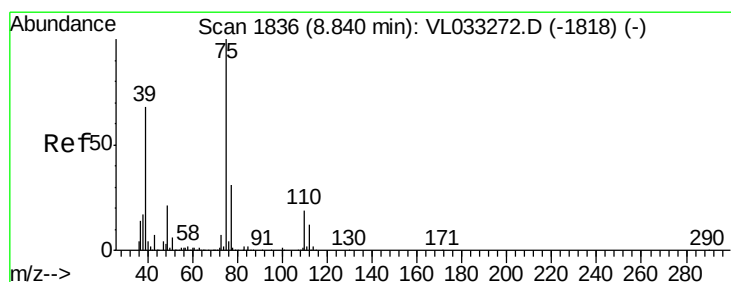
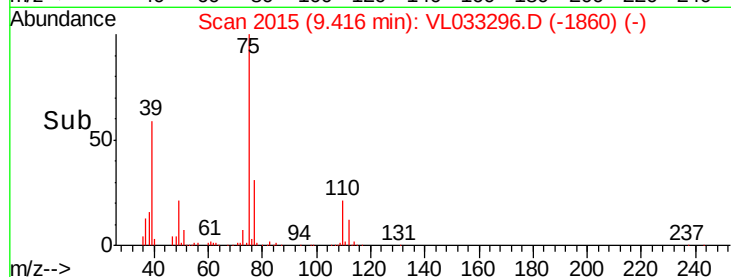
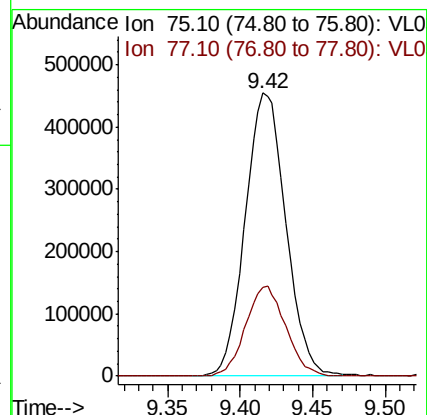
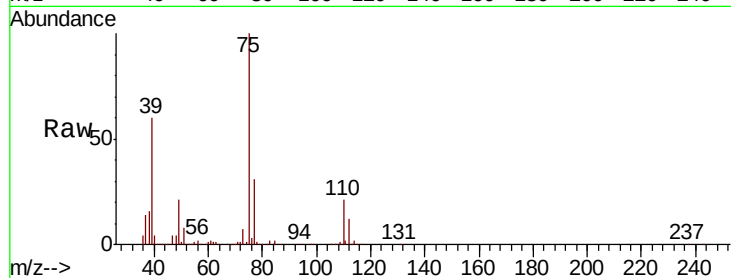
#45
t-1,3-Dichloropropene
Concen: 10.648 ppbv
RT: 9.42 min Scan# 2015
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Instrument :
MSVOA_L
ClientSampleId :
VL0312ABS02

Tgt Ion: 75 Resp: 887175
Ion Ratio Lower Upper
75 100
77 31.2 24.4 36.6

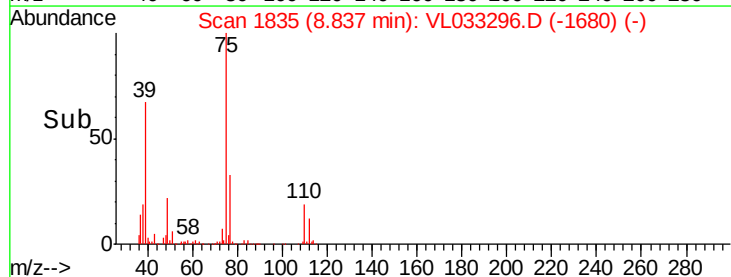
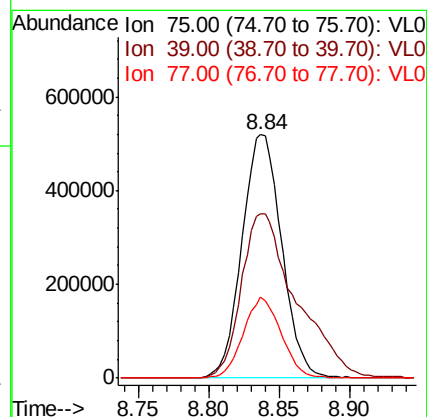
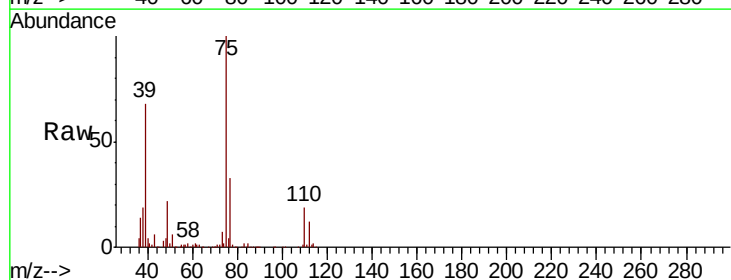
Manual Integrations
APPROVED

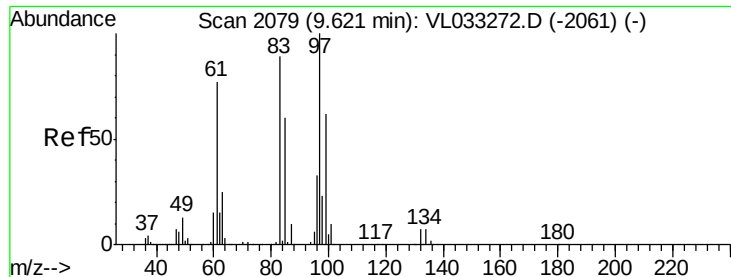
MMDadoda
3/14/2019 5:06:35 AM



#46
cis-1,3-Dichloropropene
Concen: 10.477 ppbv
RT: 8.84 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Tgt Ion: 75 Resp: 1023159
Ion Ratio Lower Upper
75 100
39 67.5 54.2 81.2
77 33.5 24.5 36.7





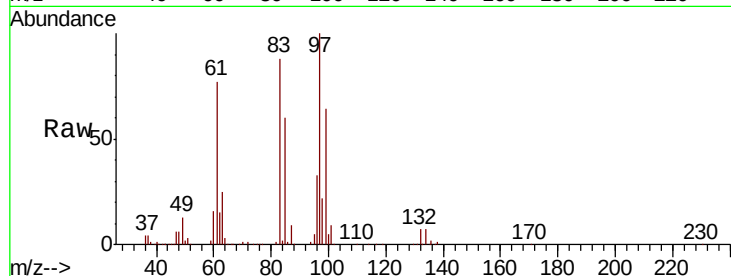
#47
 1,1,2-Trichloroethane
 Concen: 9.674 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. -0.01 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0312ABS02

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.1	71.0	106.4
85	59.6	48.2	72.4
99	63.4	49.3	73.9

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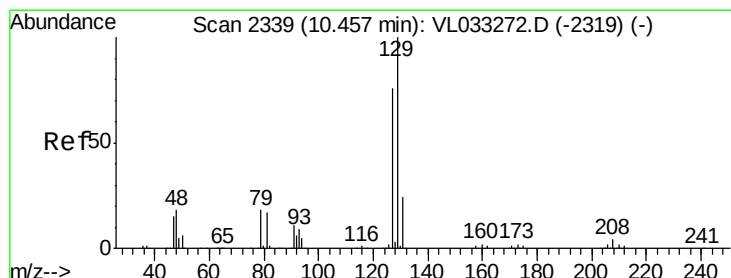
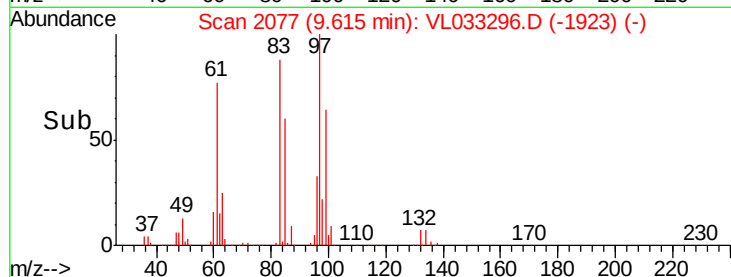
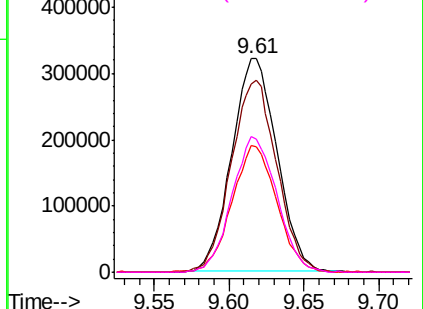
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

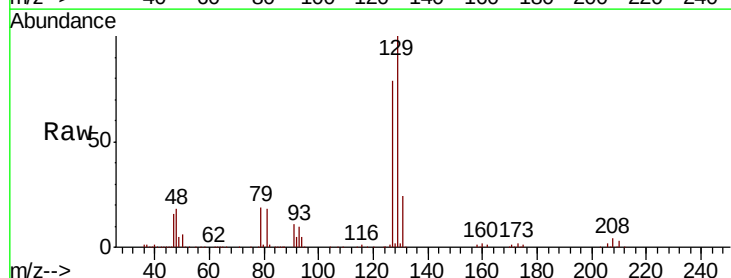
Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48
 Dibromochloromethane
 Concen: 10.661 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

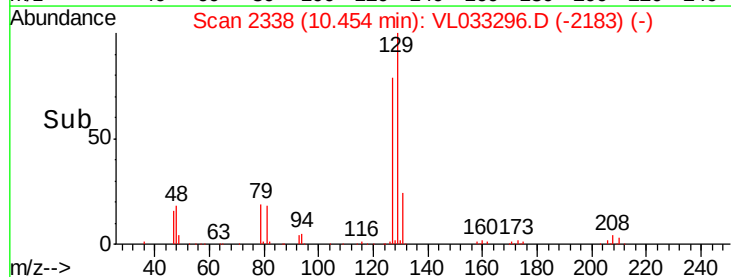
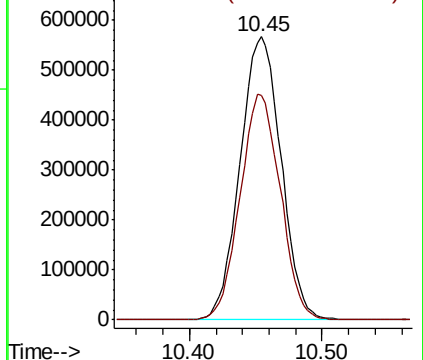
Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.9	116.6

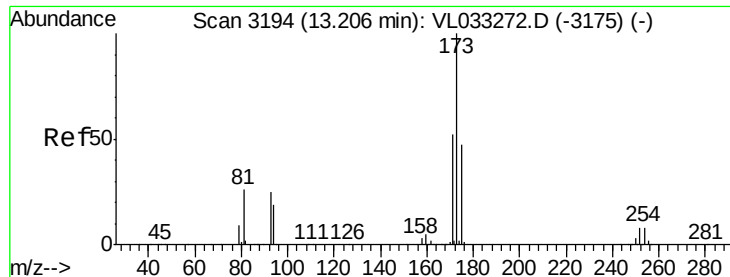


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.416 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. 0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Instrument :

MSVOA_L

ClientSampleId :

VL0312ABS02

Tgt Ion:173 Resp: 1060102

Ion Ratio Lower Upper

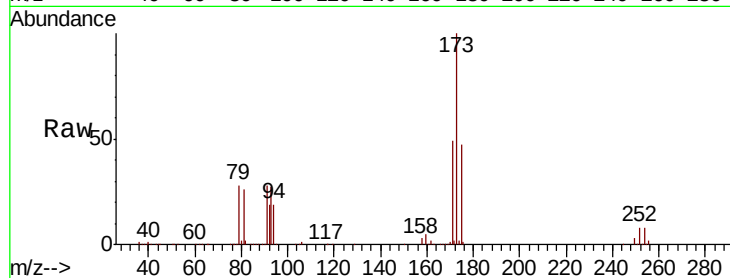
173 100

175 48.5 39.0 58.6

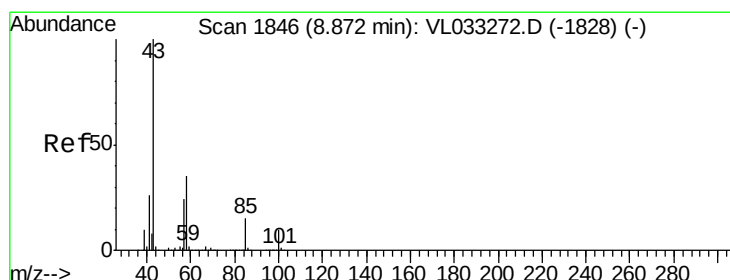
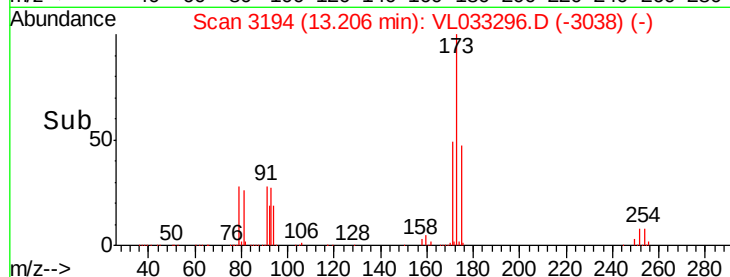
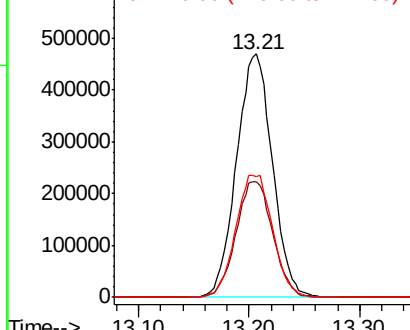
171 51.8 41.2 61.8

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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: 9.744 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. -0.00 min

Lab File: VL033296.D

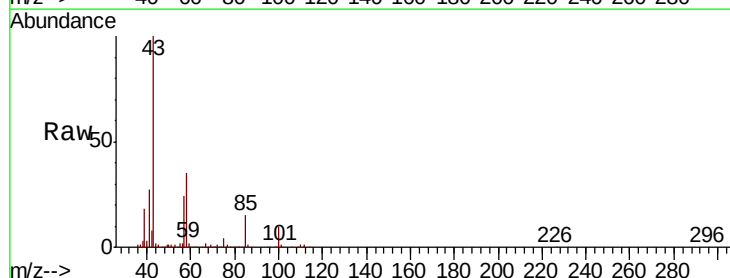
Acq: 12 Mar 2019 23:36

Tgt Ion: 43 Resp: 1733871

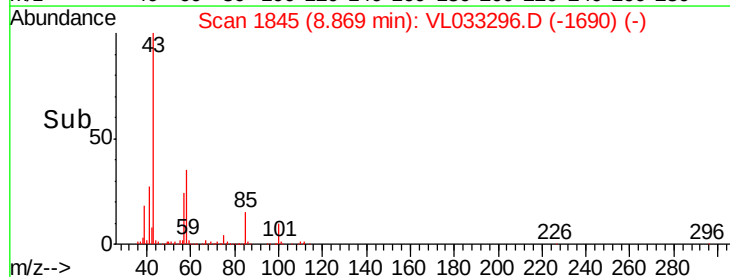
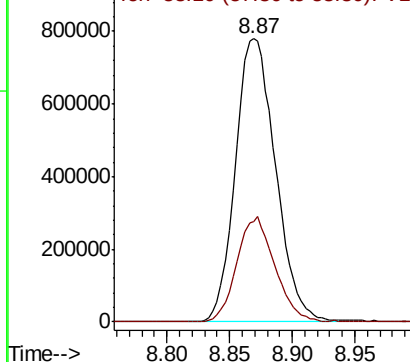
Ion Ratio Lower Upper

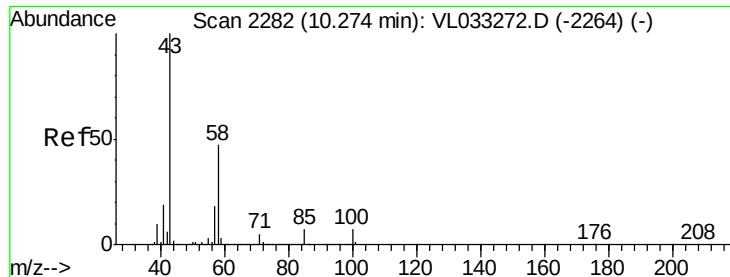
43 100

58 35.4 28.0 42.0



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





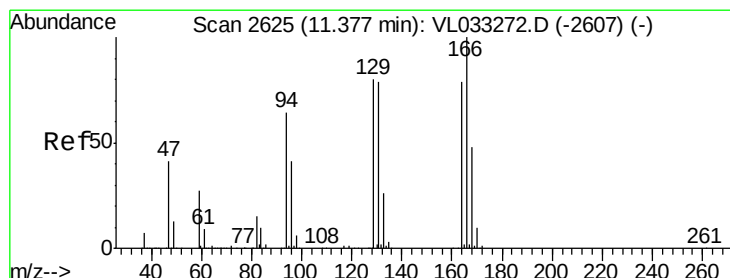
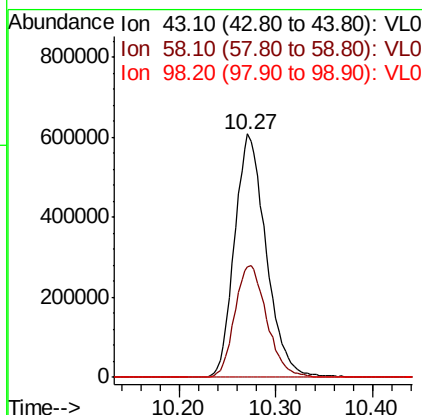
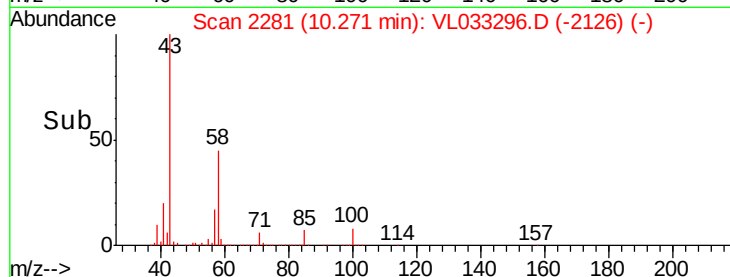
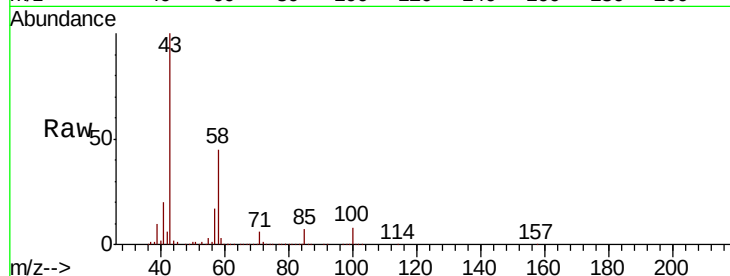
#51
2-Hexanone
Concen: 10.165 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Instrument :
MSVOA_L
ClientSampleId :
VL0312ABS02

Tgt Ion: 43 Resp: 1380712
Ion Ratio Lower Upper
43 100
58 46.6 38.1 57.1
98 0.3 0.1 0.1#

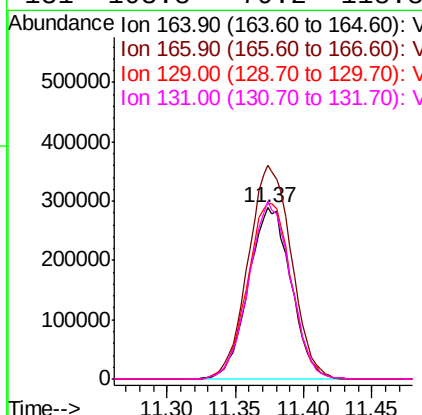
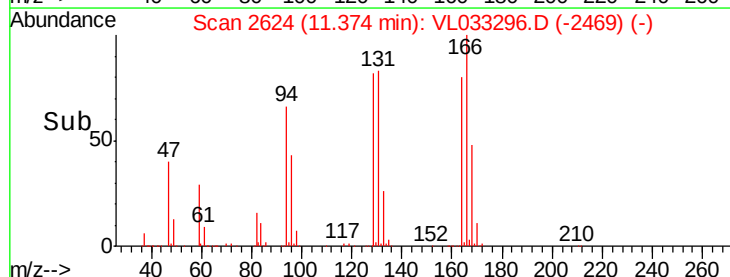
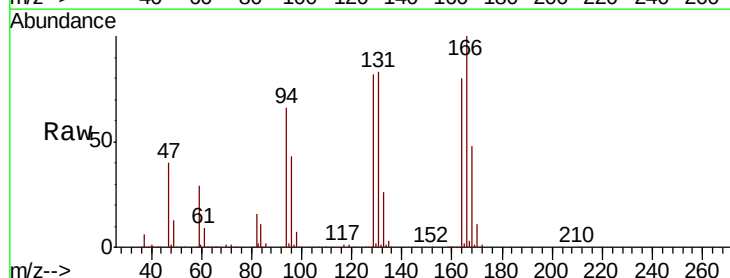
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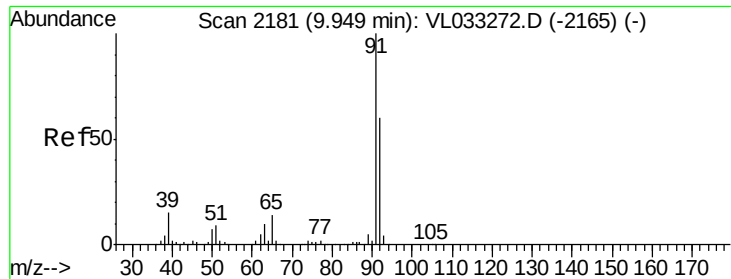
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#52
Tetrachloroethene
Concen: 9.775 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Tgt Ion: 164 Resp: 623071
Ion Ratio Lower Upper
164 100
166 124.6 100.8 151.2
129 102.0 80.6 121.0
131 103.8 79.2 118.8





#53

Toluene

Concen: 9.793 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Instrument :

MSVOA_L

ClientSampleId :

VL0312ABS02

Tgt Ion: 91 Resp: 1962805

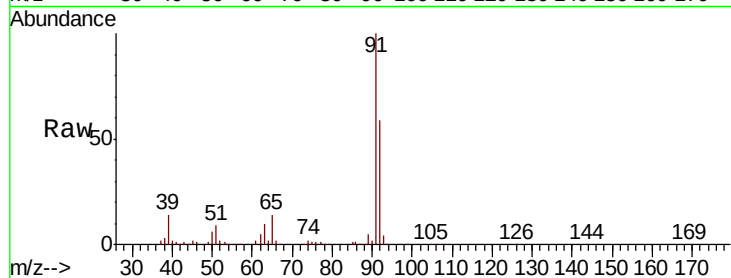
Ion Ratio Lower Upper

91 100

92 59.2 47.8 71.8

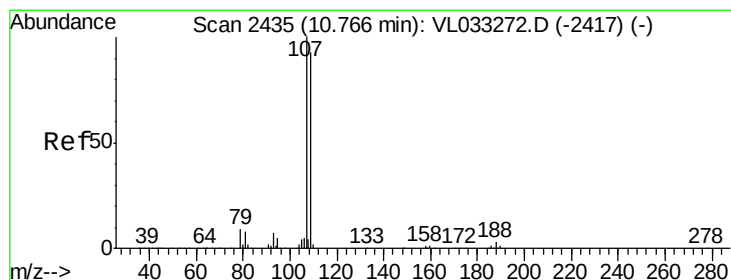
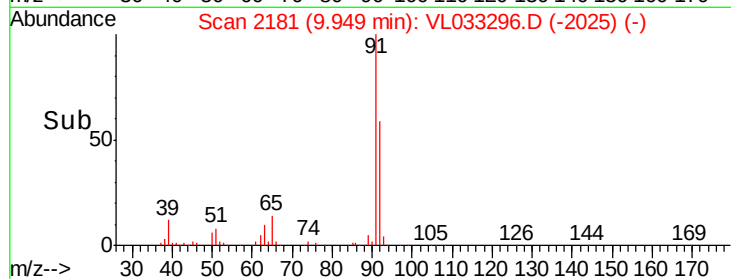
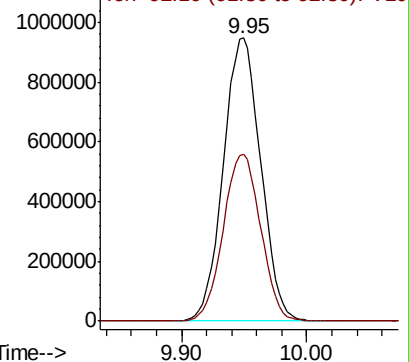
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.170 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.00 min

Lab File: VL033296.D

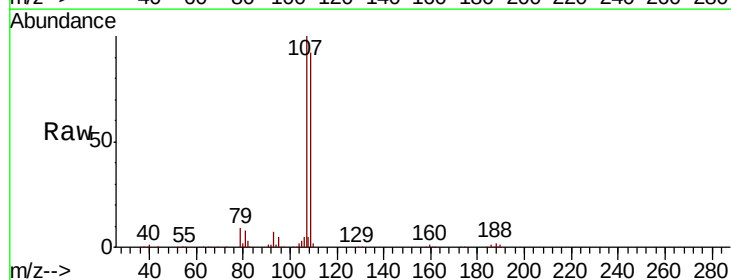
Acq: 12 Mar 2019 23:36

Tgt Ion: 107 Resp: 1092258

Ion Ratio Lower Upper

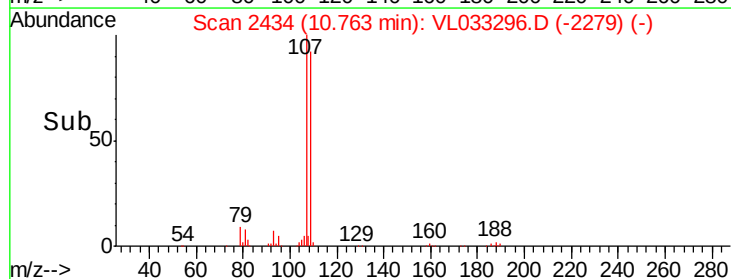
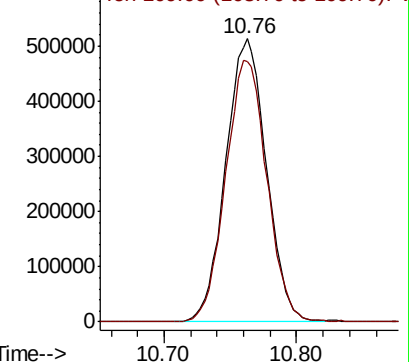
107 100

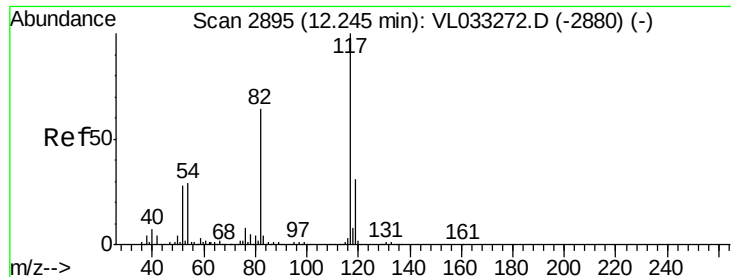
109 91.9 74.2 111.2



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 m

RT: 12.24 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Instrument :

MSVOA_L

ClientSampleId :

VL0312ABS02

Tgt Ion:117 Resp: 2018075

Ion Ratio Lower Upper

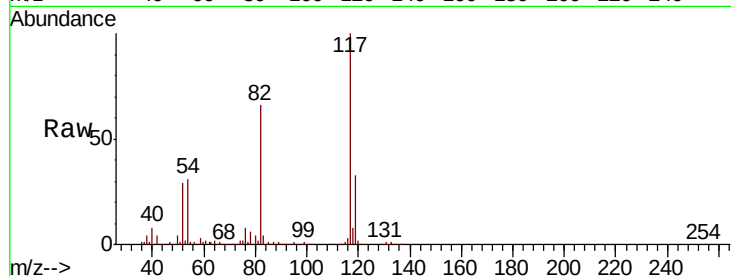
117 100

82 66.1 51.1 76.7

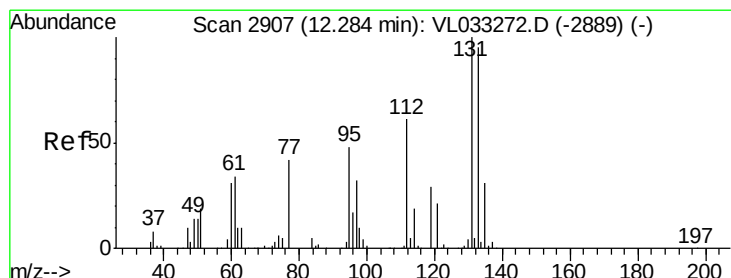
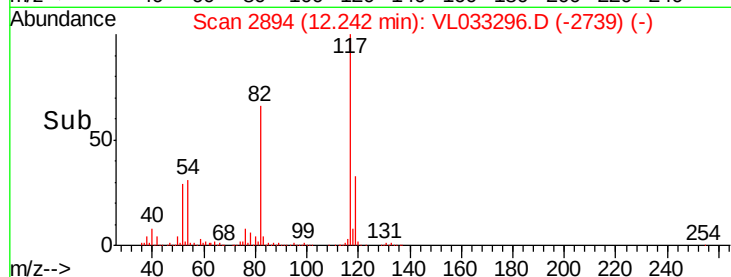
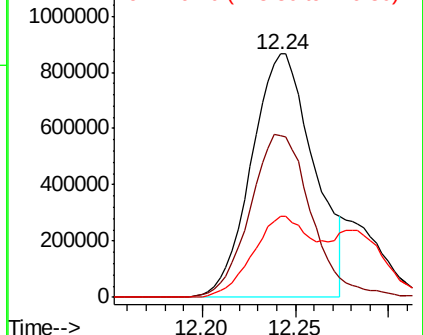
119 55.5 43.6 65.4

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Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.735 ppbv

RT: 12.28 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

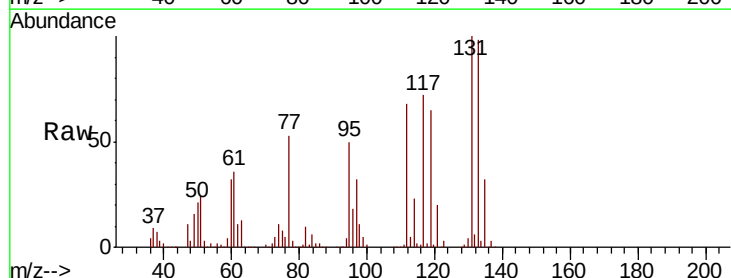
Tgt Ion:131 Resp: 835104

Ion Ratio Lower Upper

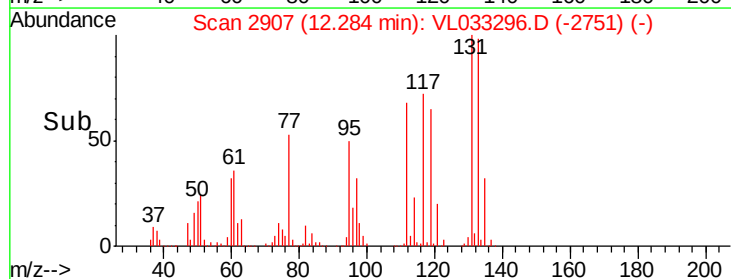
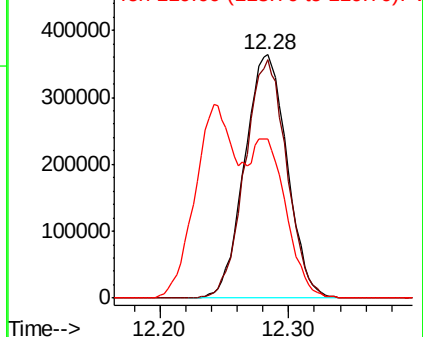
131 100

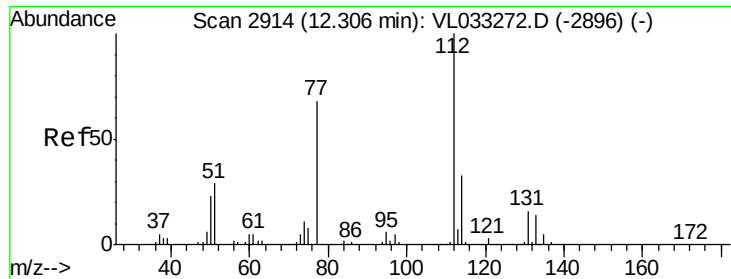
133 96.1 76.2 114.4

119 57.5 110.3 165.5#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





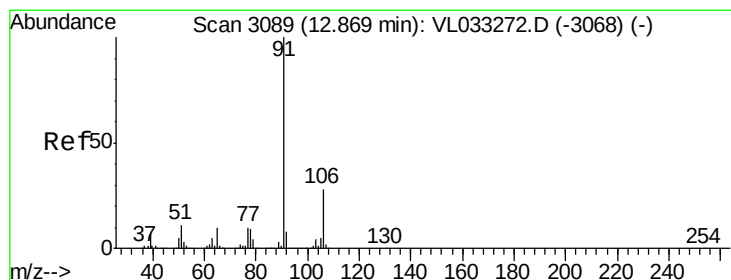
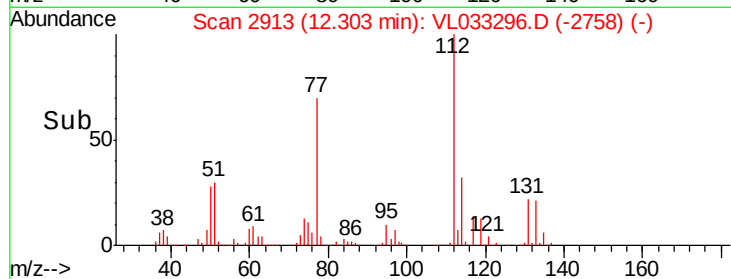
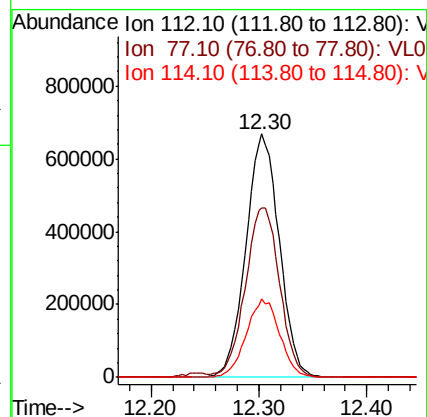
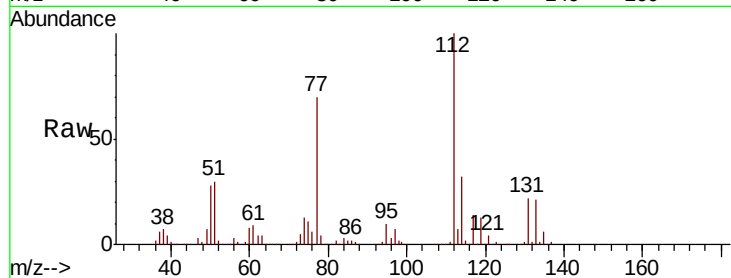
#57
Chlorobenzene
Concen: 9.439 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Instrument :
MSVOA_L
ClientSampleId :
VL0312ABS02

Tgt Ion: 112 Resp: 1436565
Ion Ratio Lower Upper
112 100
77 69.5 55.8 83.8
114 32.1 29.5 36.1

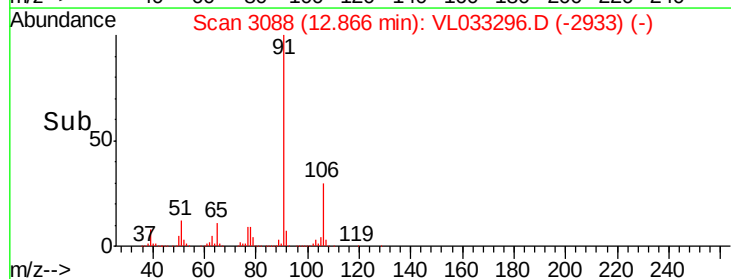
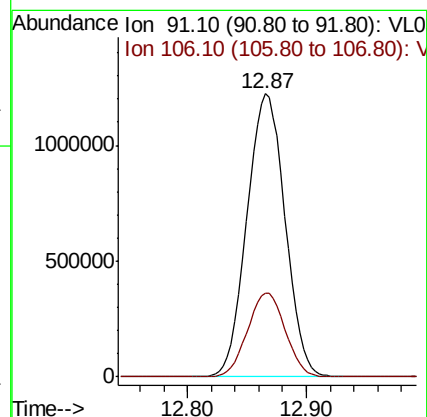
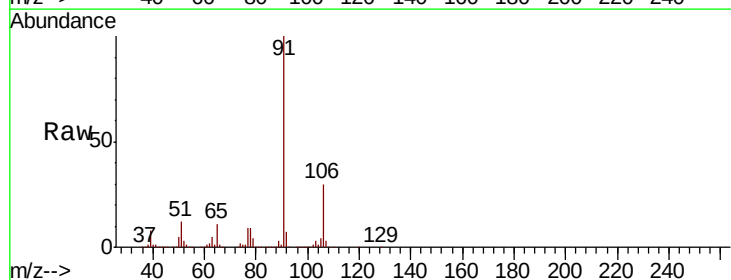
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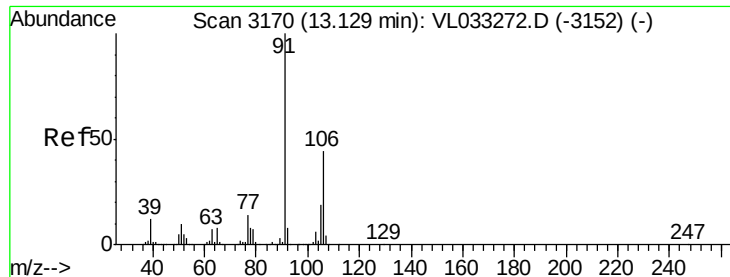
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#58
Ethyl Benzene
Concen: 9.781 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Tgt Ion: 91 Resp: 2712631
Ion Ratio Lower Upper
91 100
106 29.7 22.5 33.7





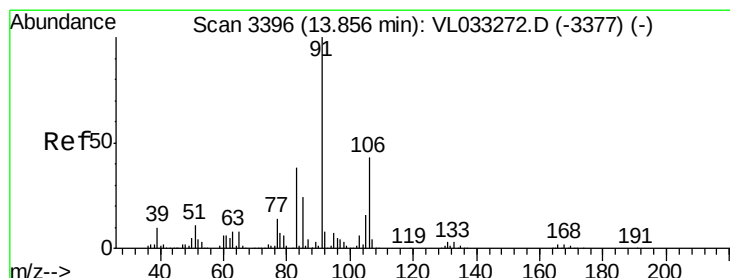
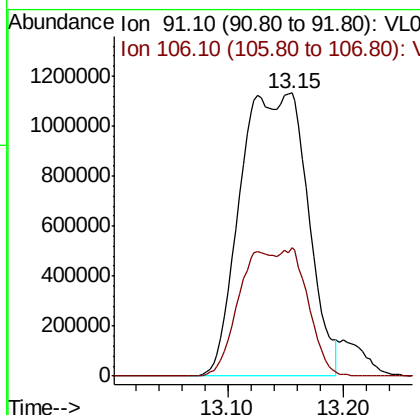
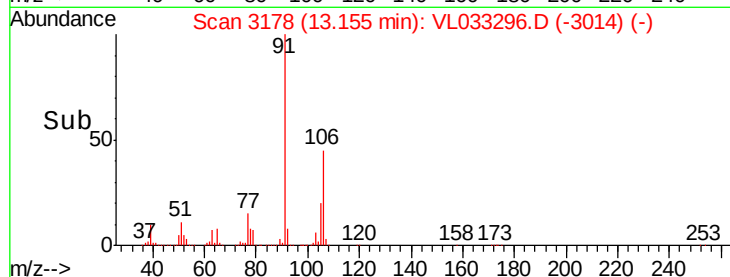
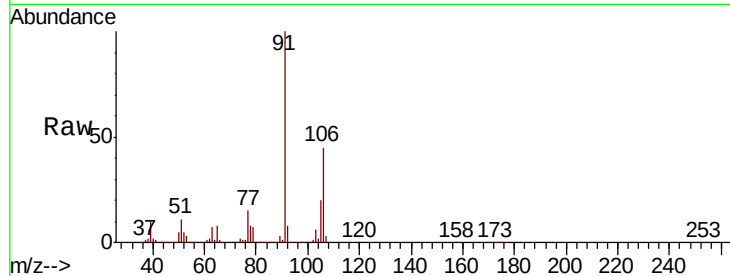
#59
m/p-Xylene
Concen: 19.758 ppbv m
RT: 13.15 min Scan# 3178
Delta R.T. 0.03 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Instrument :
MSVOA_L
ClientSampleId :
VL0312ABS02

Tgt Ion: 91 Resp: 4582189
Ion Ratio Lower Upper
91 100
106 0.0 35.5 53.3#

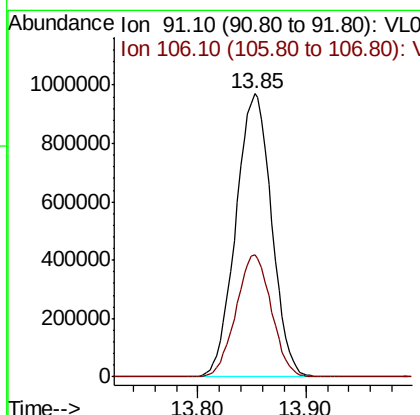
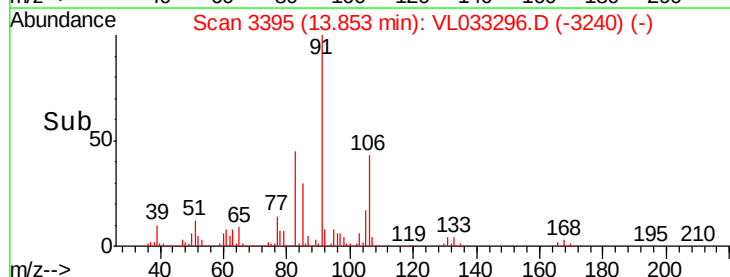
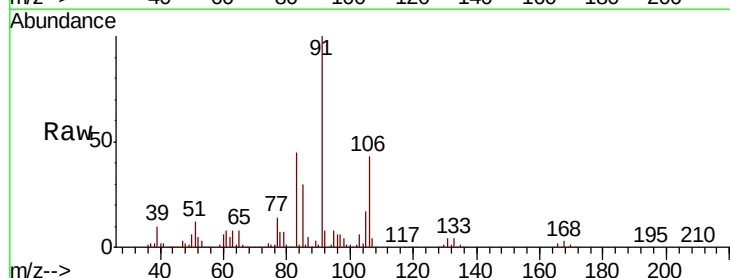
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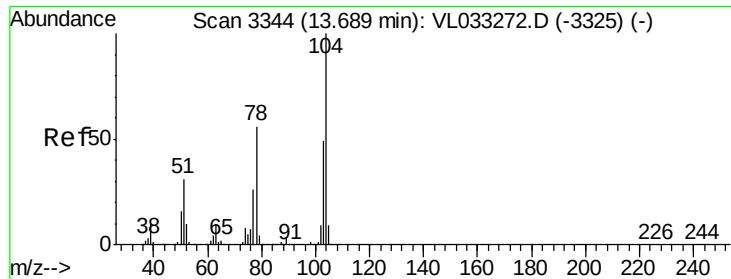
MMDadoda
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#60
o-Xylene
Concen: 10.027 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Tgt Ion: 91 Resp: 2235562
Ion Ratio Lower Upper
91 100
106 42.7 21.3 63.7





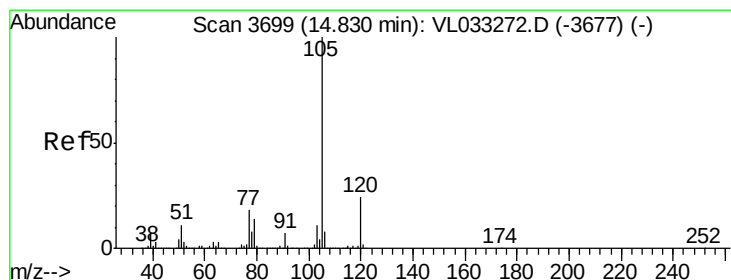
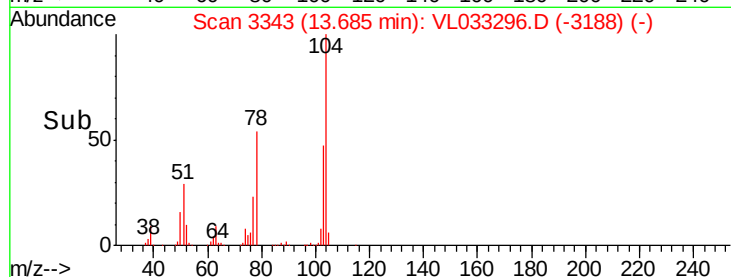
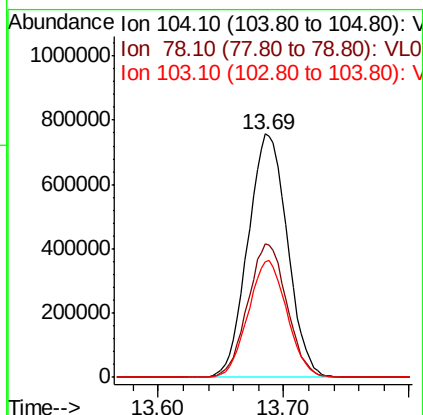
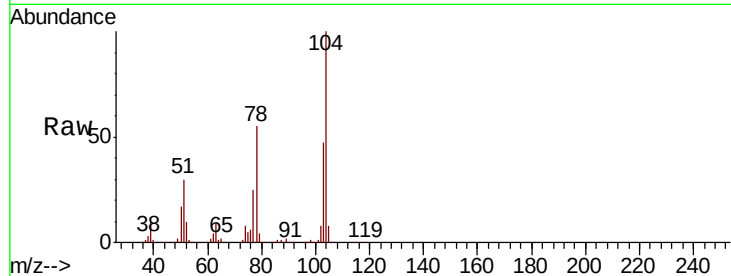
#61
Styrene
 Concen: 10.434 ppbv
 RT: 13.69 min Scan# 3343
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0312ABS02

Tgt Ion	Ratio	Lower	Upper
104	100		
78	54.4	43.3	64.9
103	47.3	38.0	57.0

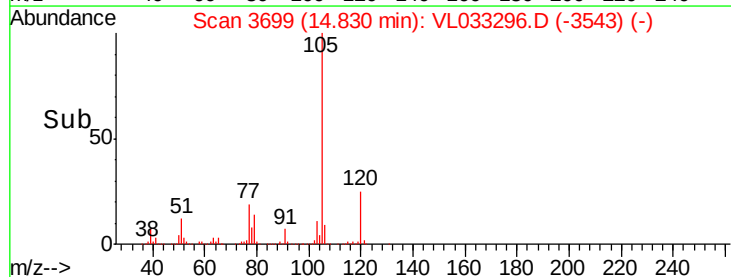
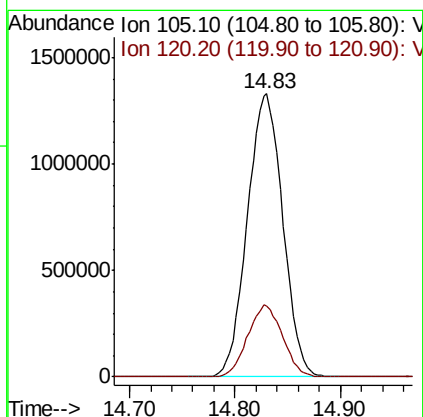
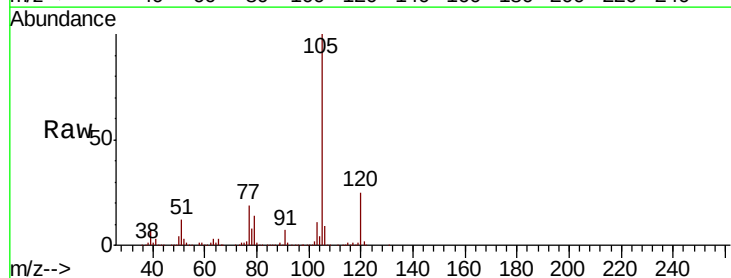
Manual Integrations
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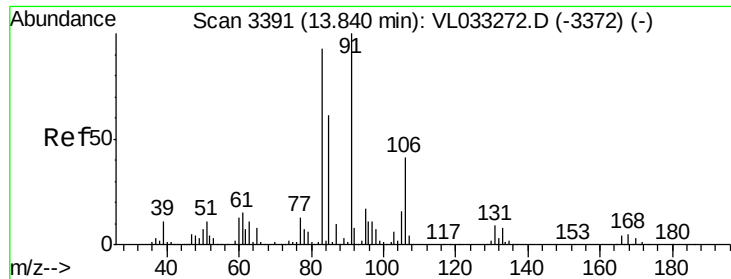
MMDadoda
 3/14/2019 5:06:35 AM



#62
Isopropylbenzene
 Concen: 10.005 ppbv
 RT: 14.83 min Scan# 3699
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.0	20.0	30.0





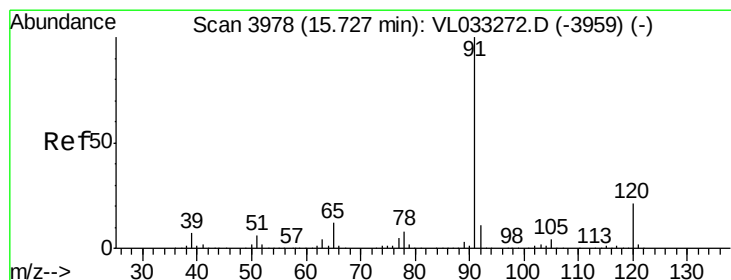
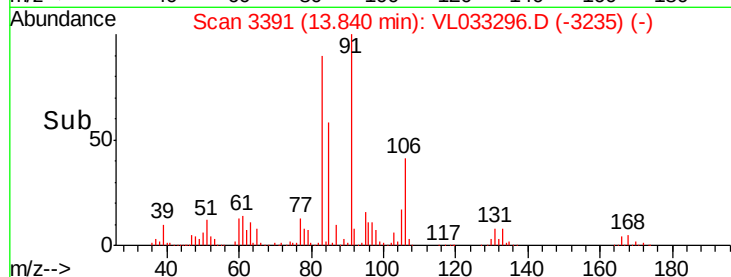
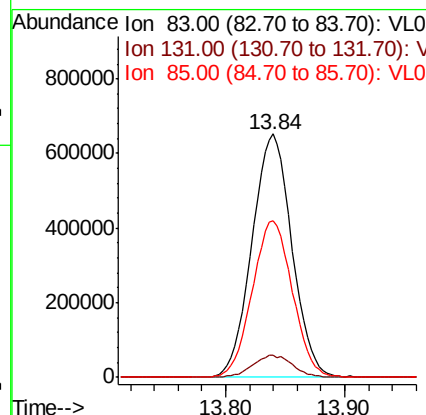
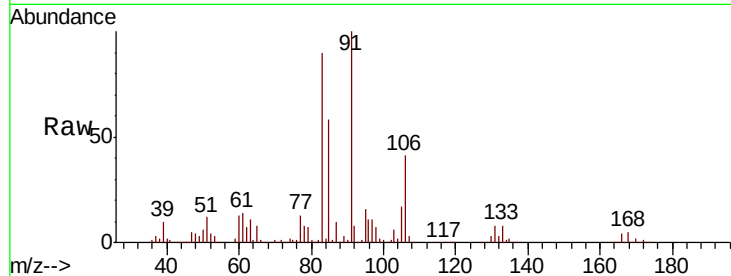
#63
 1,1,2,2-Tetrachloroethane
 Concen: 10.107 ppbv
 RT: 13.84 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0312ABS02

Tgt Ion: 83 Resp: 1510680
 Ion Ratio Lower Upper
 83 100
 131 9.1 4.5 13.7
 85 64.9 32.2 96.6

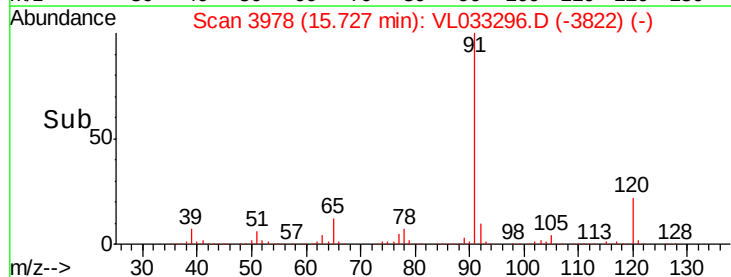
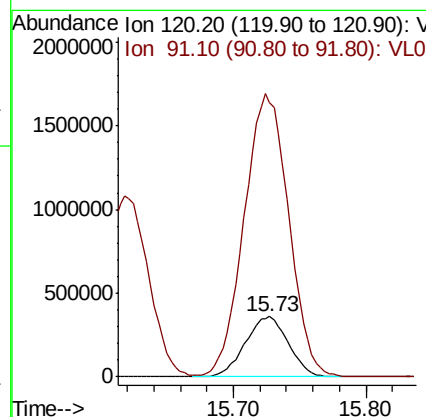
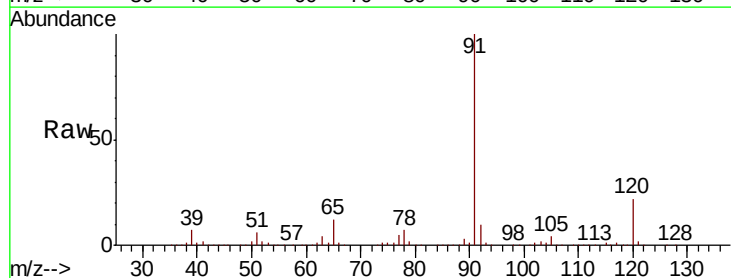
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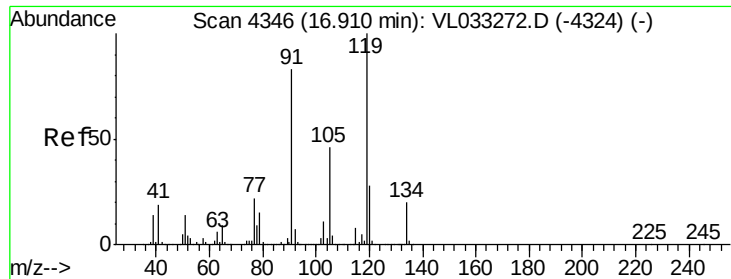
MMDadoda
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#64
 n-propylbenzene
 Concen: 10.650 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. 0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Tgt Ion: 120 Resp: 814137
 Ion Ratio Lower Upper
 120 100
 91 487.1 385.8 578.8





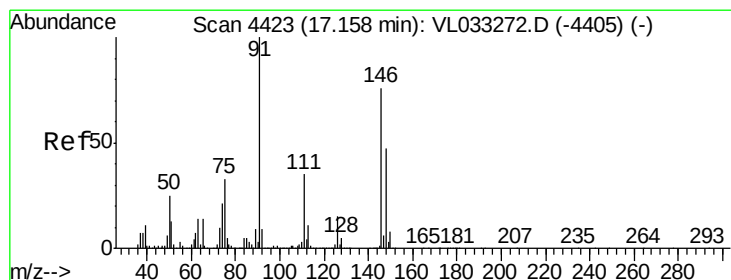
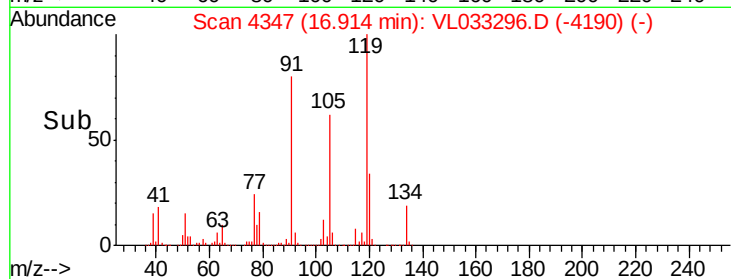
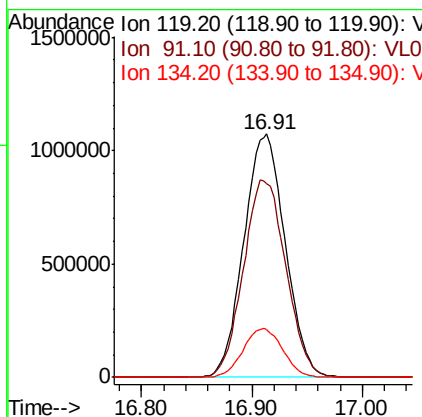
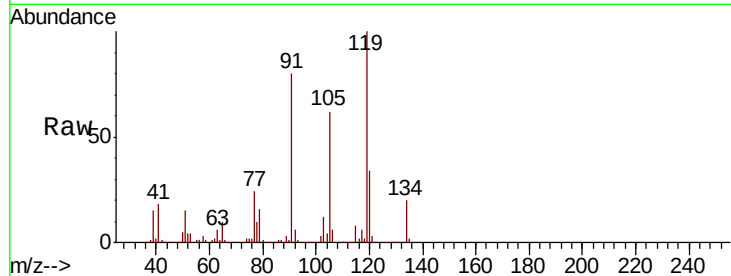
#65
 tert-Butylbenzene
 Concen: 10.640 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. 0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0312ABS02

Tgt Ion	Ratio	Lower	Upper
119	100		
91	83.5	67.3	100.9
134	19.3	15.4	23.2

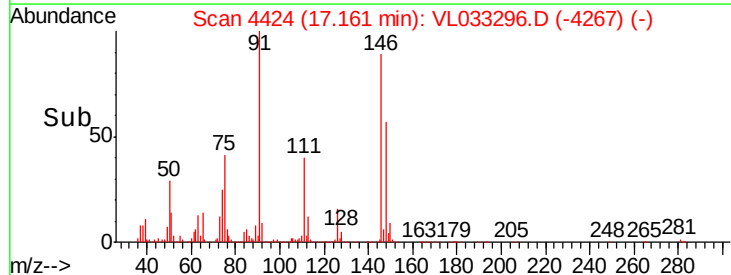
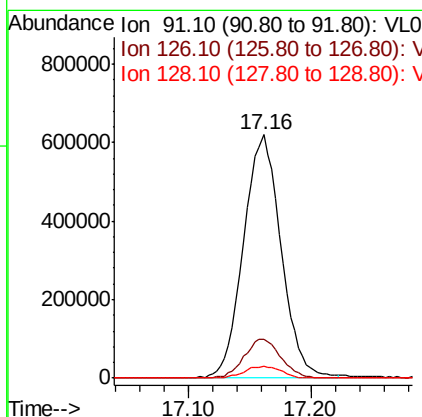
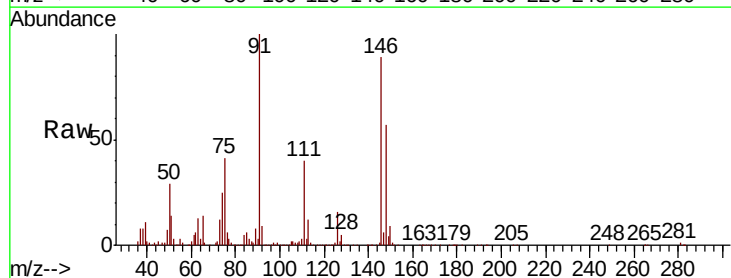
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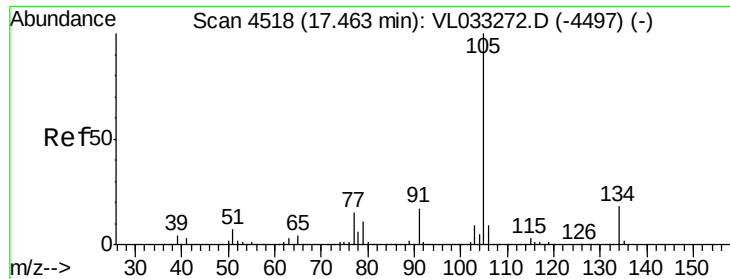
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#66
 Benzyl Chloride
 Concen: 12.954 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. 0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
91	100		
126	15.7	13.0	19.6
128	5.0	4.3	6.5





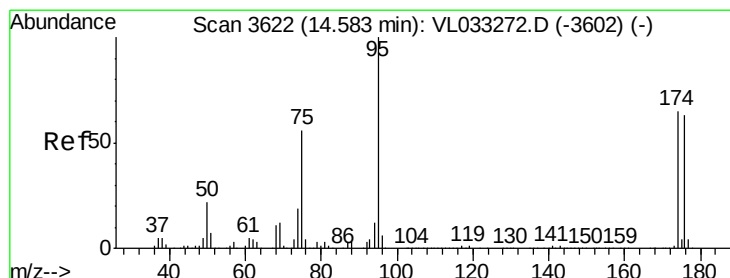
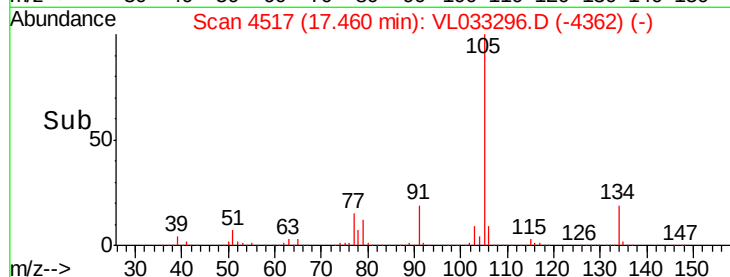
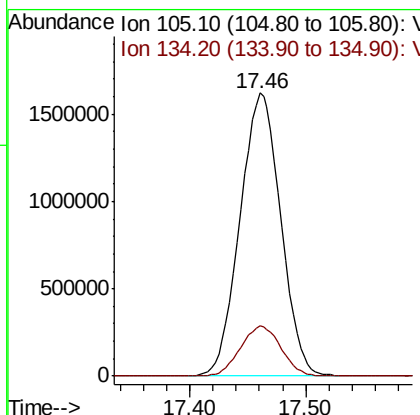
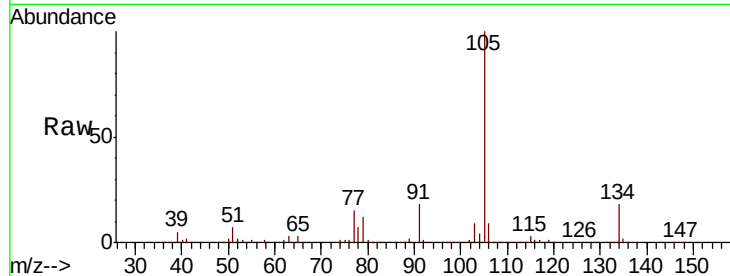
#67
 sec-Butylbenzene
 Concen: 10.581 ppbv
 RT: 17.46 min Scan# 4517
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0312ABS02

Tgt Ion: 105 Resp: 3949247
 Ion Ratio Lower Upper
 105 100
 134 17.8 14.2 21.2

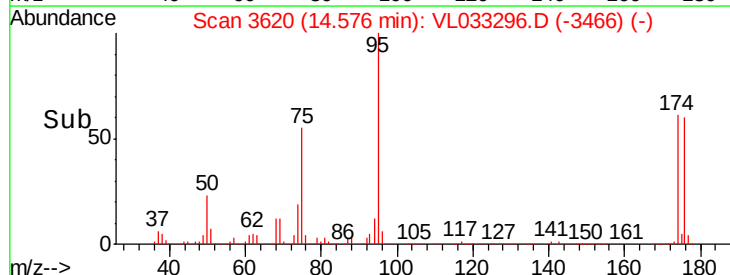
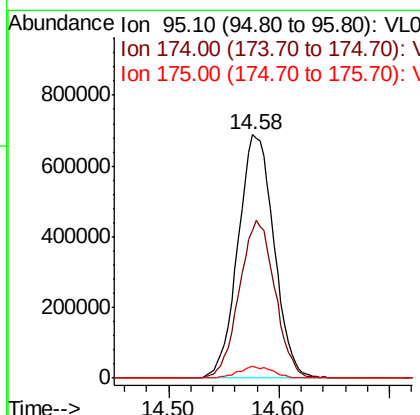
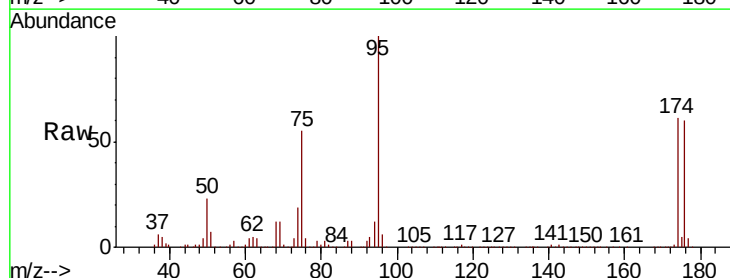
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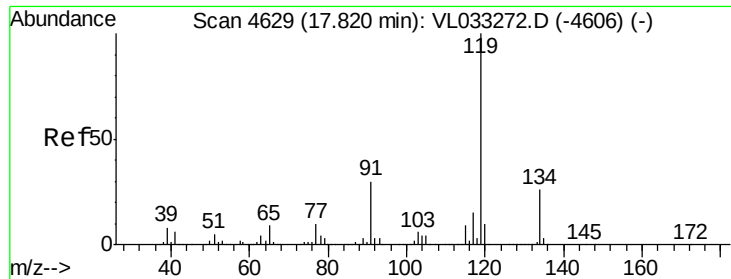
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.962 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Tgt Ion: 95 Resp: 1552553
 Ion Ratio Lower Upper
 95 100
 174 64.4 51.7 77.5
 175 4.7 3.7 5.5





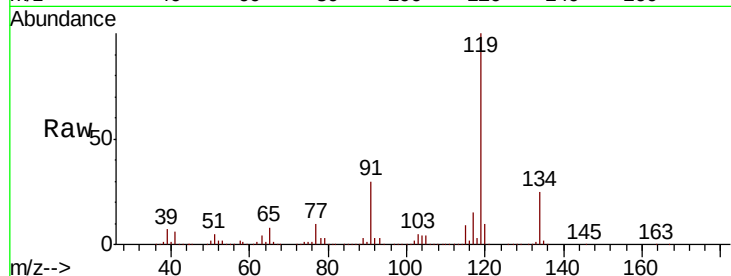
#69
p-Isopropyltoluene
Concen: 10.669 ppbv
RT: 17.82 min Scan# 4629
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Instrument :
MSVOA_L
ClientSampleId :
VL0312ABS02

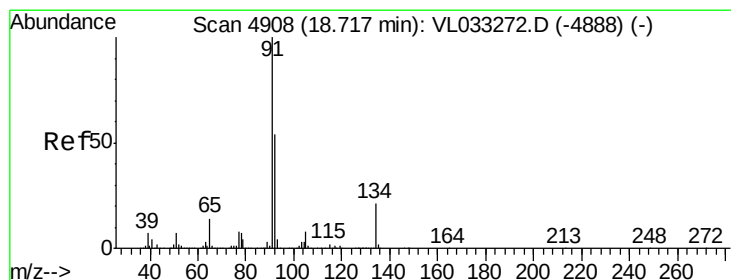
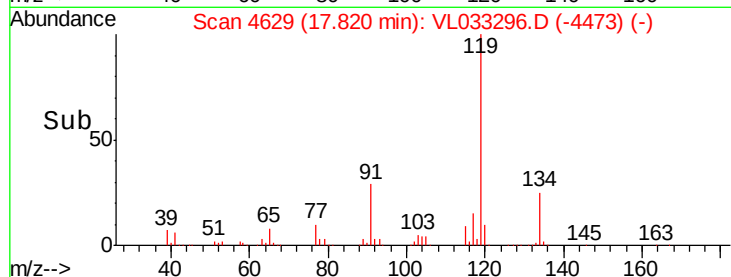
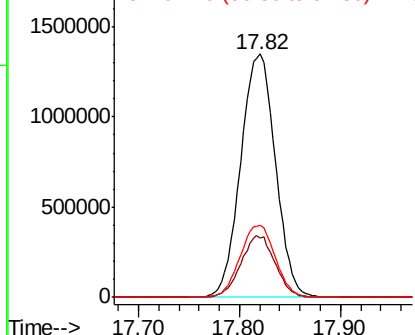
Tgt Ion: 119 Resp: 3216934
Ion Ratio Lower Upper
119 100
134 24.9 19.7 29.5
91 30.0 23.5 35.3

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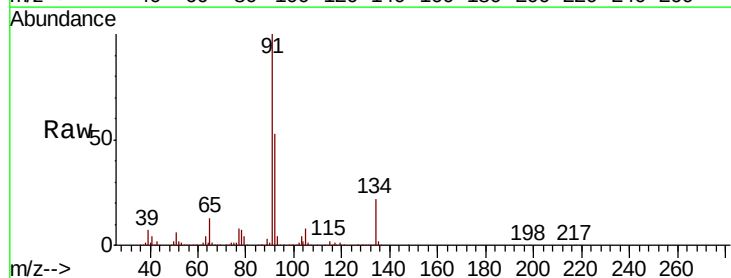


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

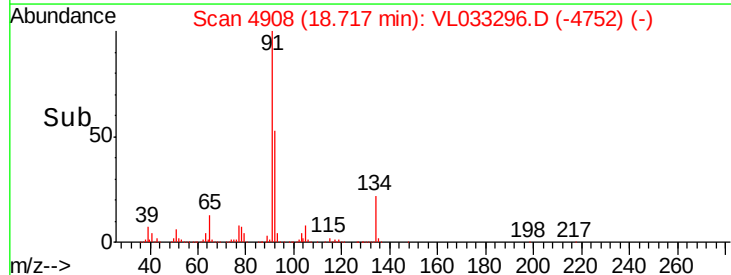
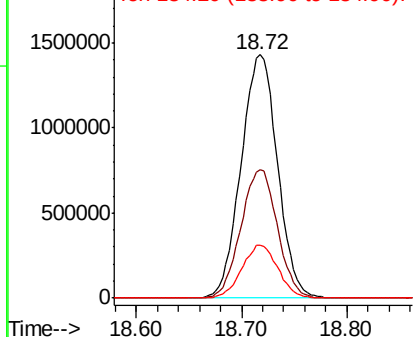


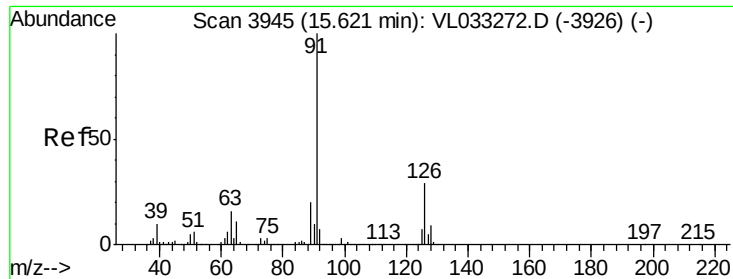
#70
n-Butylbenzene
Concen: 10.609 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. 0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Tgt Ion: 91 Resp: 3434826
Ion Ratio Lower Upper
91 100
92 52.9 42.4 63.6
134 21.6 17.1 25.7



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





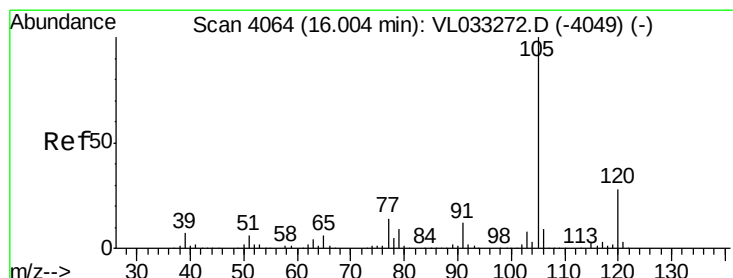
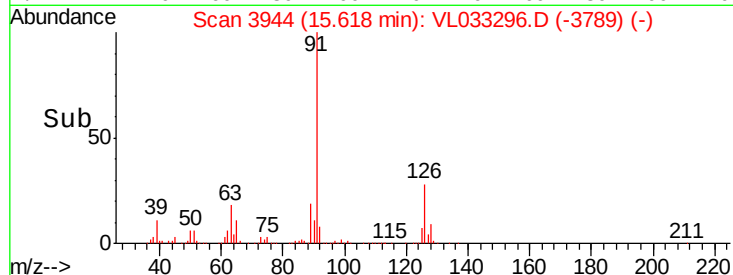
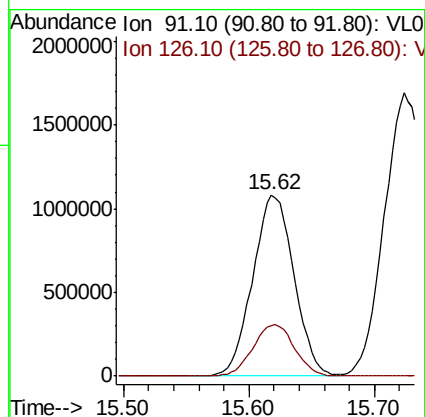
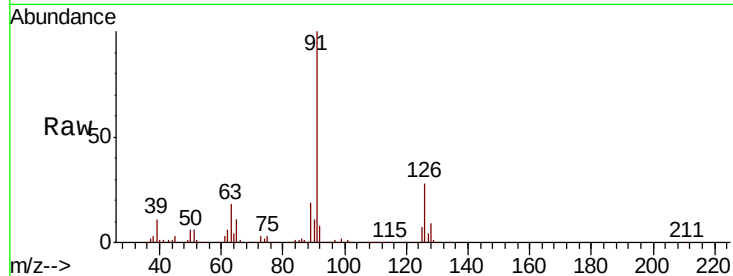
#71
 2-Chlorotoluene
 Concen: 10.594 ppbv
 RT: 15.62 min Scan# 3944
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0312ABS02

Tgt Ion: 91 Resp: 2481051
 Ion Ratio Lower Upper
 91 100
 126 28.6 11.7 46.7

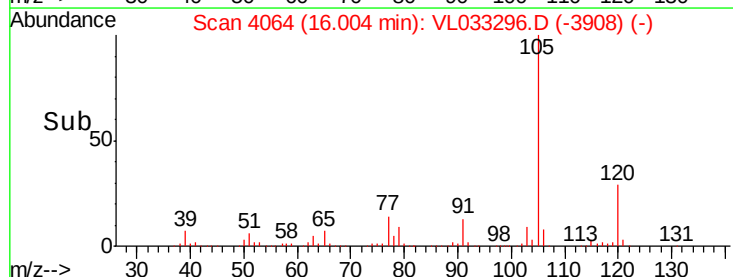
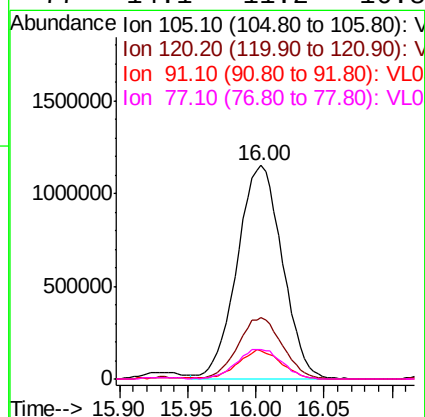
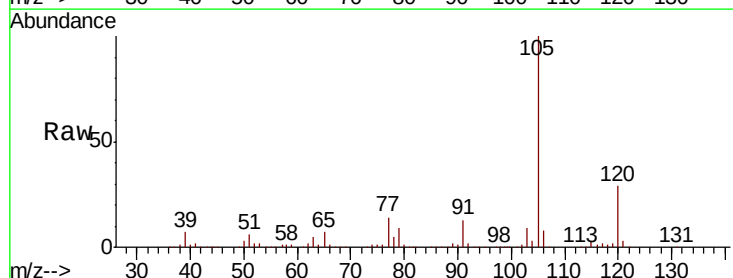
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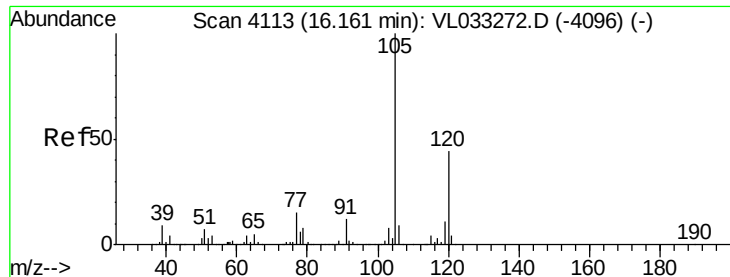
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#72
 4-Ethyltoluene
 Concen: 10.932 ppbv
 RT: 16.00 min Scan# 4064
 Delta R.T. 0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Tgt Ion: 105 Resp: 2632826
 Ion Ratio Lower Upper
 105 100
 120 28.5 22.9 34.3
 91 13.0 10.2 15.2
 77 14.1 11.2 16.8





#73

1,3,5-Trimethylbenzene

Concen: 11.027 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. 0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Instrument :

MSVOA_L

ClientSampleId :

VL0312ABS02

Tgt Ion:105 Resp: 2502570

Ion Ratio Lower Upper

105 100

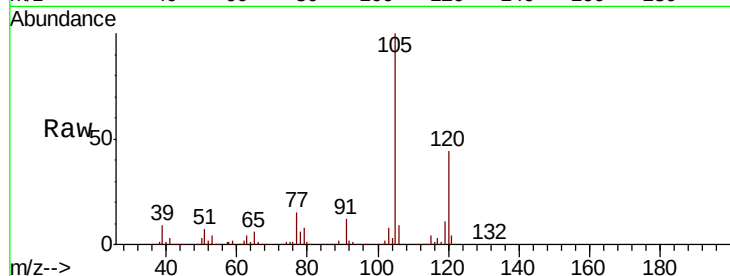
120 43.6 35.1 52.7

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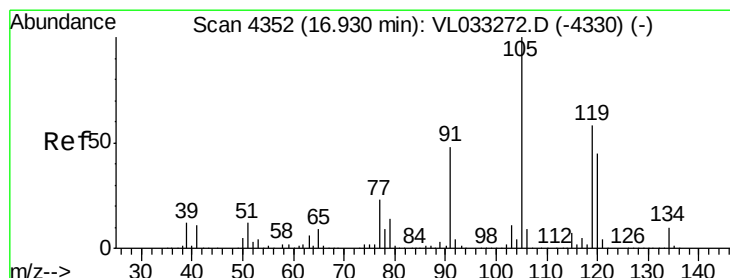
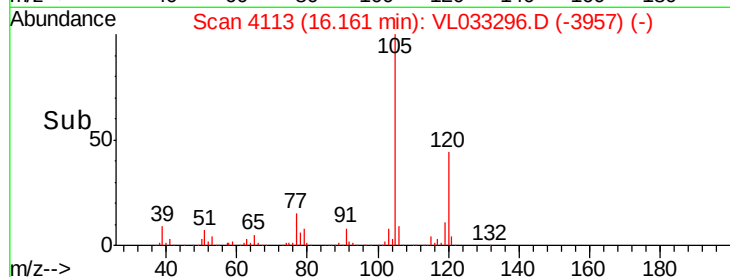
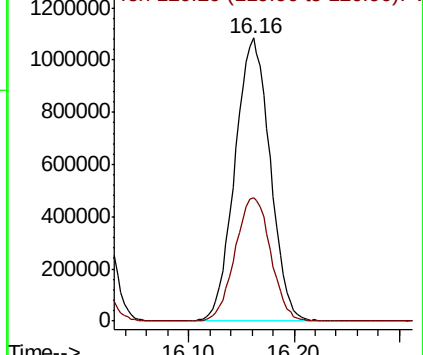
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 11.065 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Tgt Ion:105 Resp: 2557479

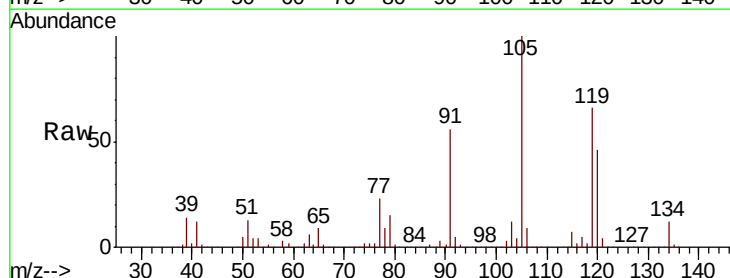
Ion Ratio Lower Upper

105 100

120 45.7 36.1 54.1

91 55.5 38.6 58.0

77 23.0 18.2 27.4

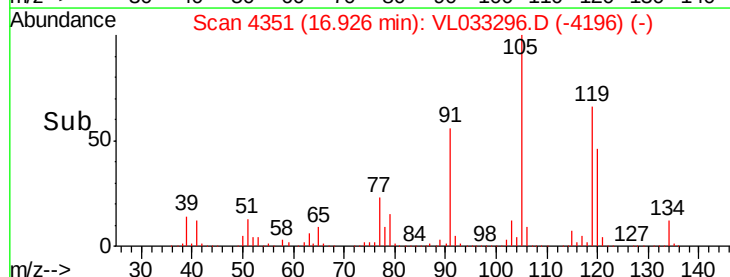
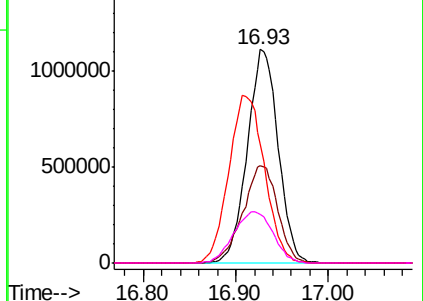


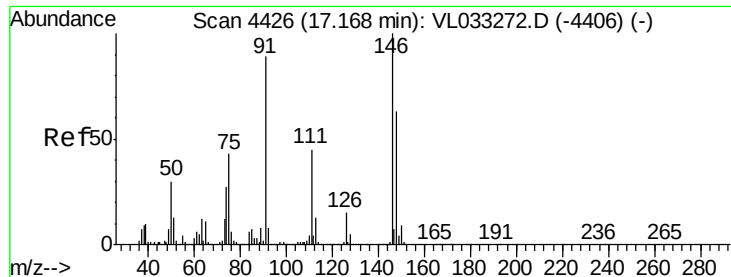
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 10.565 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. -0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Instrument :

MSVOA_L

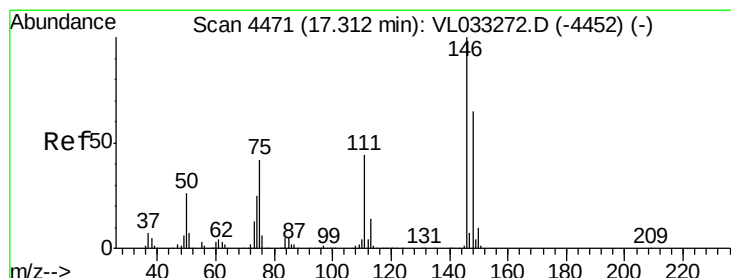
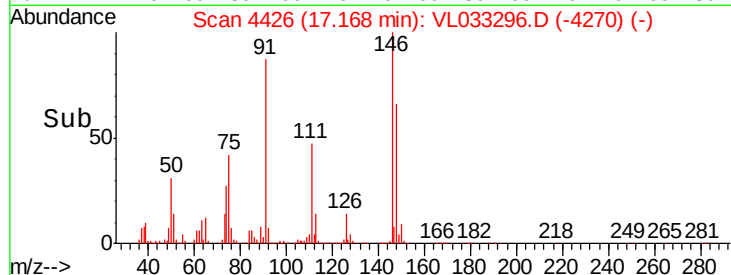
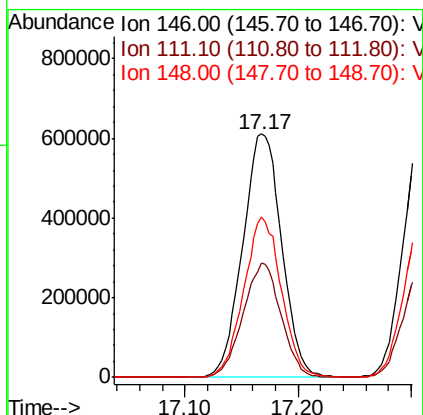
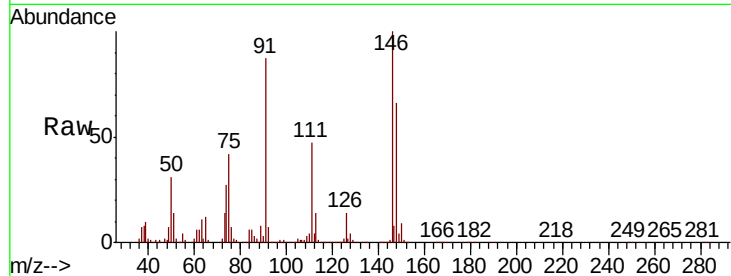
ClientSampleId :

VL0312ABS02

Tgt Ion:	146	Resp:	1463564
Ion	Ratio	Lower	Upper
146	100		
111	45.7	22.8	68.4
148	63.5	31.8	95.3

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#76

1,4-Dichlorobenzene

Concen: 10.715 ppbv

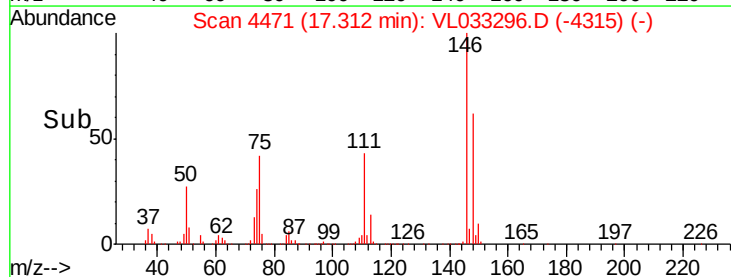
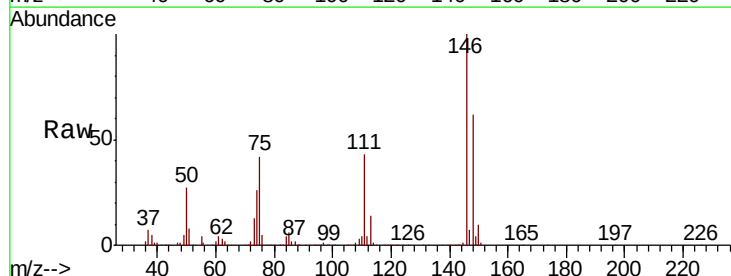
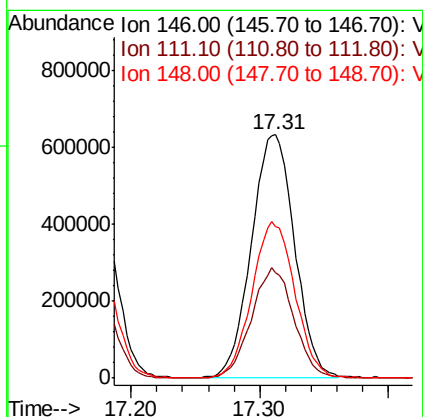
RT: 17.31 min Scan# 4471

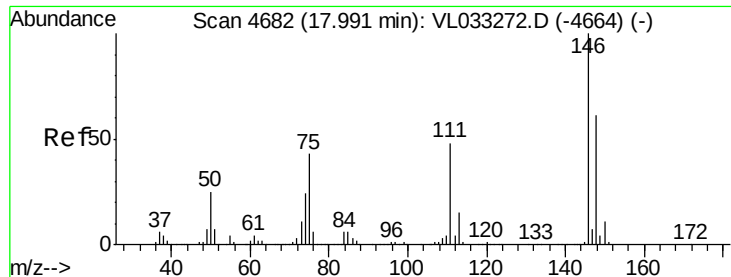
Delta R.T. -0.00 min

Lab File: VL033296.D

Acq: 12 Mar 2019 23:36

Tgt Ion:	146	Resp:	1467841
Ion	Ratio	Lower	Upper
146	100		
111	44.7	22.1	66.1
148	64.4	31.8	95.3





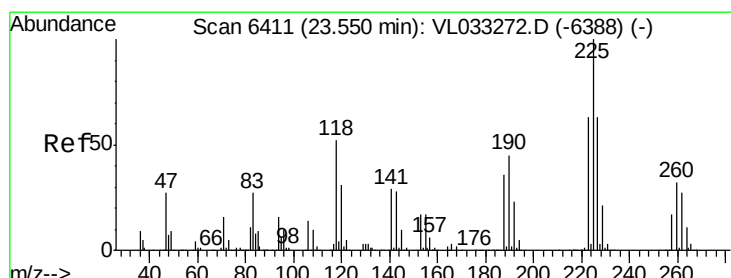
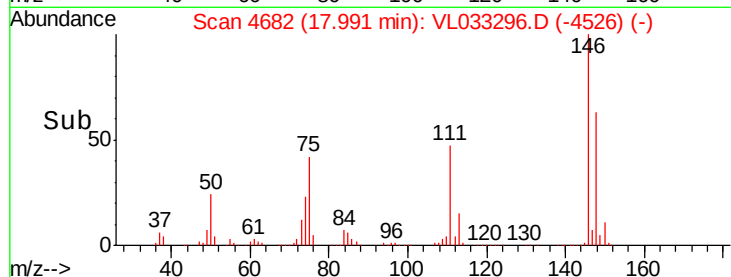
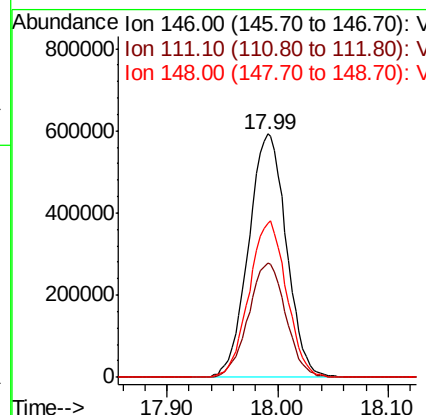
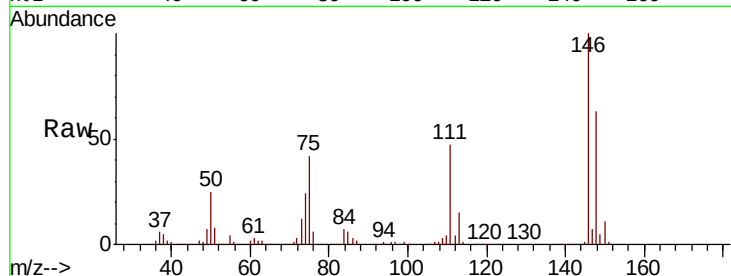
#77
 1,2-Dichlorobenzene
 Concen: 10.210 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0312ABS02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.5	23.5	70.5
148	63.5	31.7	95.1

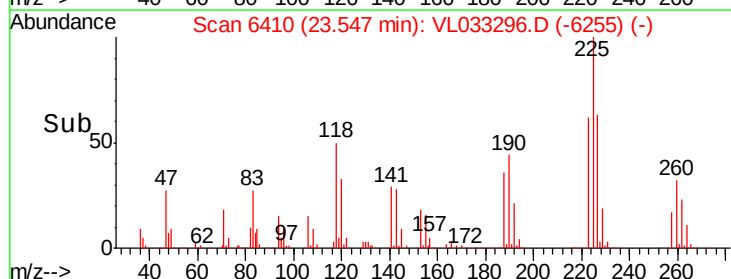
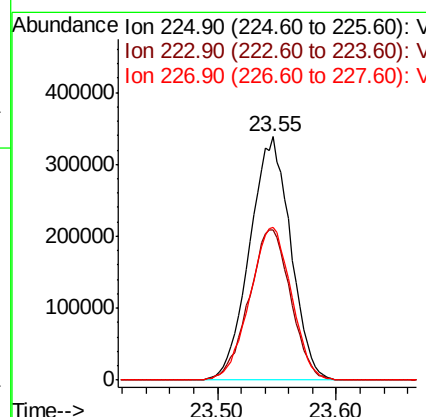
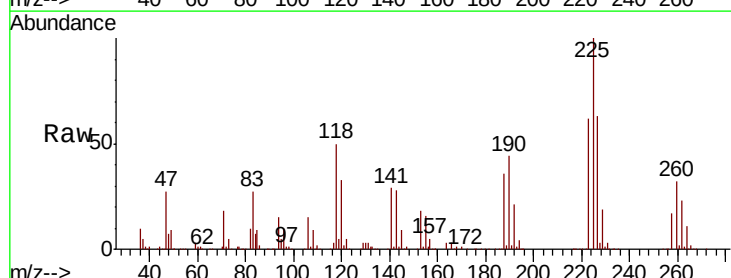
Manual Integrations
 APPROVED

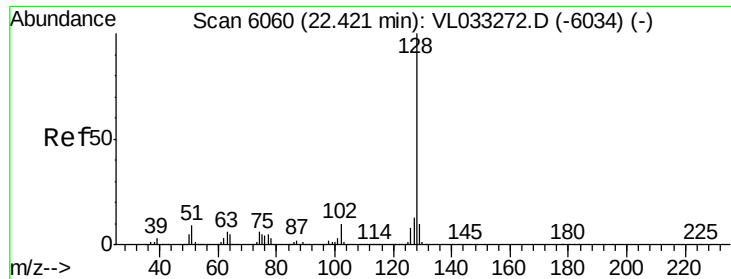
MMDadoda
 3/14/2019 5:06:35 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.007 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.3	75.5
227	63.8	51.1	76.7





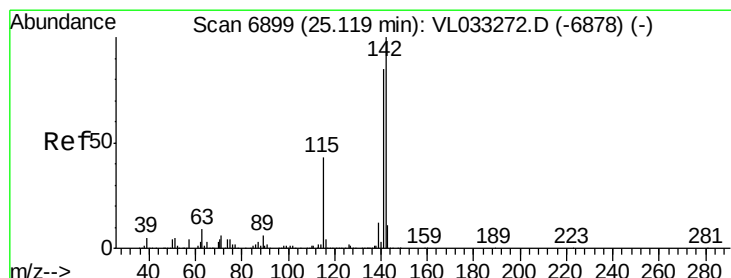
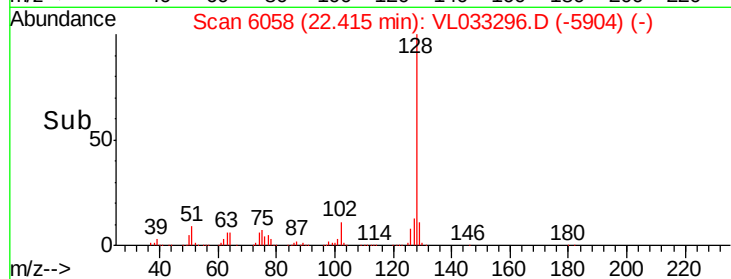
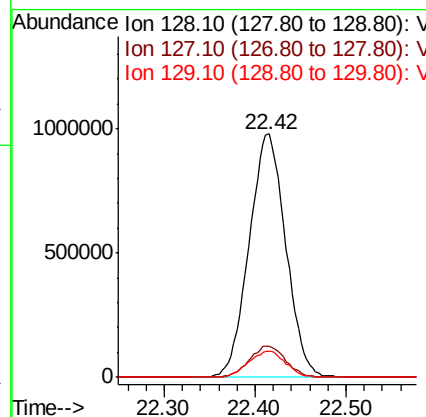
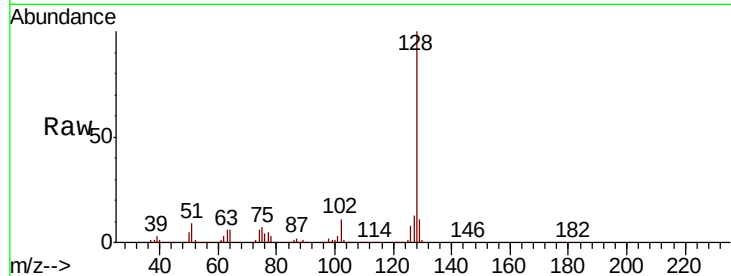
#79
Naphthalene
Concen: 10.932 ppbv
RT: 22.42 min Scan# 6058
Delta R.T. -0.01 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Instrument :
MSVOA_L
ClientSampleId :
VL0312ABS02

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.8	8.4	12.6

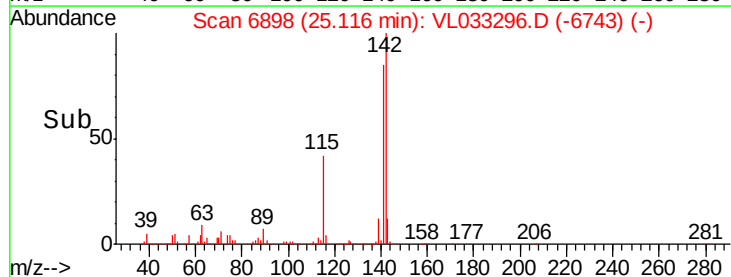
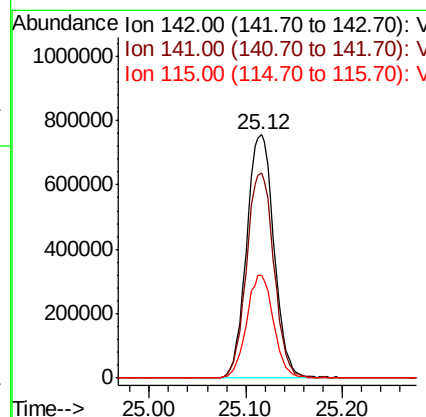
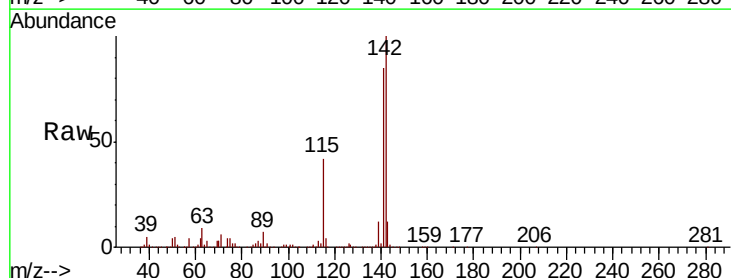
Manual Integrations
APPROVED

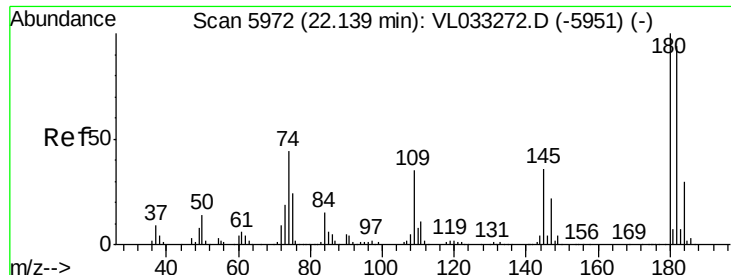
MMDadoda
3/14/2019 5:06:35 AM



#80
Naphthalene, 2-methyl-
Concen: 21.735 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. -0.00 min
Lab File: VL033296.D
Acq: 12 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.8	68.0	102.0
115	41.7	33.8	50.6





#81
 1,2,4-Trichlorobenzene
 Concen: 9.907 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. -0.00 min
 Lab File: VL033296.D
 Acq: 12 Mar 2019 23:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0312ABS02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.6	114.8
184	30.4	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:06:35 AM

