

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071719\
 Data File : VL034035.D
 Acq On : 17 Jul 2019 15:13
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 1:37:10 AM

Quant Time: Jul 18 04:50:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1238530	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.25	114	3203495	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.20	117	3310756m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2451968	8.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	86.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	1971197	7.712	ppbv 98
3) Chlorodifluoromethane	2.99	51	1352347	8.842	ppbv 97
4) Chloromethane	3.15	50	807554	9.183	ppbv 99
5) Vinyl Chloride	3.27	62	874738	8.846	ppbv 96
6) Bromomethane	3.49	94	535328	9.180	ppbv 97
7) Chloroethane	3.57	64	330561	9.353	ppbv 99
8) Dichlorotetrafluoroethane	3.20	85	2134552	8.566	ppbv 100
9) Propene	3.01	41	577896	10.271	ppbv 96
10) Heptane	8.21	43	1519994	10.790	ppbv 99
11) Trichlorofluoromethane	3.98	101	2270655	7.901	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1608318	7.906	ppbv 98
13) Ethanol	3.62	45	152085	8.701	ppbv 94
14) Bromoethene	3.76	108	719242	9.468	ppbv 98
15) Acetone	3.87	43	1604417	7.705	ppbv 98
16) 1,3-Butadiene	3.34	39	733810	9.980	ppbv 100
17) tert-Butyl alcohol	4.33	59	1584982	9.547	ppbv 100
18) 1,1-Dichloroethene	4.32	96	759951	8.388	ppbv 98
19) Isopropyl Alcohol	4.00	45	1249844	8.942	ppbv 99
20) Methylene Chloride	4.38	84	665101	7.323	ppbv 98
21) Allyl Chloride	4.45	41	1164656	8.970	ppbv 98
22) trans-1,2-Dichloroethene	4.93	96	765420	8.866	ppbv 93
23) Vinyl Acetate	5.12	43	2210160	10.634	ppbv 98
24) 1,1-Dichloroethane	5.06	63	1710051	9.284	ppbv 100
25) Ethyl Acetate	5.73	43	2824360	9.917	ppbv 100
26) Hexane	5.74	57	1283892	9.851	ppbv 99
27) Carbon Disulfide	4.59	76	1980998	8.941	ppbv 100
28) Methyl tert-Butyl Ether	5.08	73	2293209	10.390	ppbv 99
29) Chloroform	5.81	83	2156017	8.802	ppbv 99
30) Cyclohexane	7.21	84	1075483	10.685	ppbv 99
31) cis-1,2-Dichloroethene	5.61	61	1307165	10.381	ppbv 99
32) 1,1,1-Trichloroethane	6.58	97	2120592	8.542	ppbv 98
34) 2-Butanone	5.30	43	1757232	10.365	ppbv 100
35) Carbon Tetrachloride	7.10	117	2217844	8.745	ppbv 97
36) Benzene	6.97	78	2638567	10.526	ppbv 98
37) 1,2-Dichloroethane	6.37	62	1622466	8.786	ppbv 99
38) Trichloroethene	7.92	130	1119487	10.037	ppbv 95
39) 1,2-Dichloropropane	7.70	63	955551	10.252	ppbv 95
40) 1,4-Dioxane	7.92	88	444381m	10.326	ppbv
41) Tetrahydrofuran	6.11	42	931210	11.200	ppbv 99
42) Bromodichloromethane	7.88	83	2333501	9.418	ppbv 100
43) Methyl Methacrylate	8.10	69	1065895	11.207	ppbv 99

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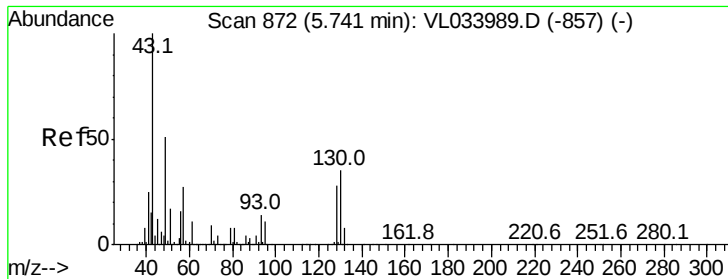
Manual Integrations
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 7/19/2019 1:37:10 AM

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	4430253	10.239	ppbv	99
45) t-1,3-Dichloropropene	9.37	75	1453359	11.686	ppbv	100
46) cis-1,3-Dichloropropene	8.80	75	1637758	11.371	ppbv	96
47) 1,1,2-Trichloroethane	9.57	97	1106670	9.443	ppbv	97
48) Dibromochloromethane	10.41	129	1957947	8.756	ppbv	98
49) Bromoform	13.16	173	1744995	9.134	ppbv	99
50) 4-Methyl-2-Pentanone	8.83	43	2598593	10.329	ppbv	99
51) 2-Hexanone	10.23	43	2100137	10.351	ppbv #	100
52) Tetrachloroethene	11.33	164	1030797	9.555	ppbv	98
53) Toluene	9.90	91	3123514	10.886	ppbv	99
54) 1,2-Dibromoethane	10.71	107	1697693	9.816	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.23	131	1325715	8.959	ppbv	98
57) Chlorobenzene	12.26	112	2344974	8.896	ppbv	99
58) Ethyl Benzene	12.82	91	4184955	10.512	ppbv	100
59) m/p-Xylene	13.11	91	6881534m	19.089	ppbv	
60) o-Xylene	13.80	91	3386827	9.391	ppbv	98
61) Styrene	13.64	104	2557509	10.716	ppbv	99
62) Isopropylbenzene	14.78	105	4440665	8.010	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.79	83	2282642	8.177	ppbv	99
64) n-propylbenzene	15.68	120	1147224	7.980	ppbv	97
65) tert-Butylbenzene	16.86	119	3989710	8.463	ppbv	100
66) Benzyl Chloride	17.11	91	2212699	9.174	ppbv	99
67) sec-Butylbenzene	17.42	105	5668466	8.566	ppbv	100
69) p-Isopropyltoluene	17.77	119	4760278	8.725	ppbv	100
70) n-Butylbenzene	18.67	91	5011428	8.744	ppbv	99
71) 2-Chlorotoluene	15.57	91	3382172	8.336	ppbv	99
72) 4-Ethyltoluene	15.96	105	3921352	8.467	ppbv	99
73) 1,3,5-Trimethylbenzene	16.11	105	3812630	8.848	ppbv	100
74) 1,2,4-Trimethylbenzene	16.88	105	3917626	8.208	ppbv	96
75) 1,3-Dichlorobenzene	17.12	146	2313963	7.632	ppbv	98
76) 1,4-Dichlorobenzene	17.26	146	2298882	8.051	ppbv	99
77) 1,2-Dichlorobenzene	17.94	146	2250453	8.016	ppbv	98
78) Hexachloro-1,3-Butadiene	23.50	225	1942414	8.131	ppbv	99
79) Naphthalene	22.35	128	4379452	10.914	ppbv	98
80) Naphthalene, 2-methyl-	25.07	142	1097165	7.514	ppbv	99
81) 1,2,4-Trichlorobenzene	22.08	180	2485986	9.647	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 868

Delta R.T. -0.01 min

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MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1238530

Ion Ratio Lower Upper

49 100

128 53.2 27.9 83.6

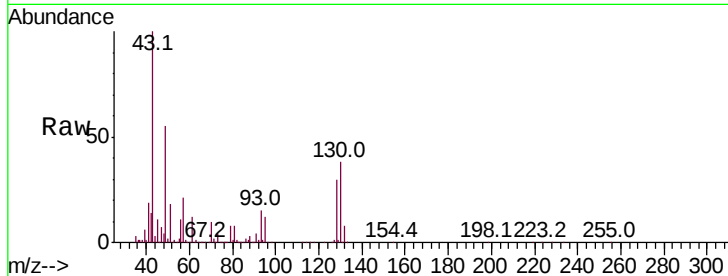
130 69.4 35.8 107.4

Manual Integrations

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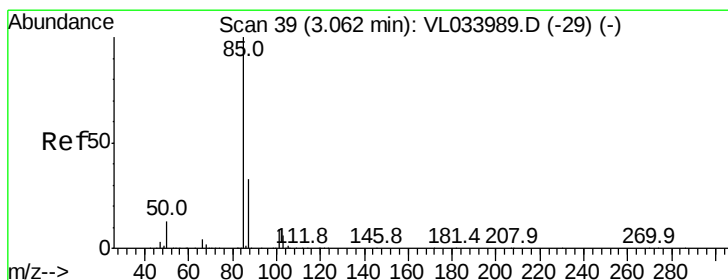
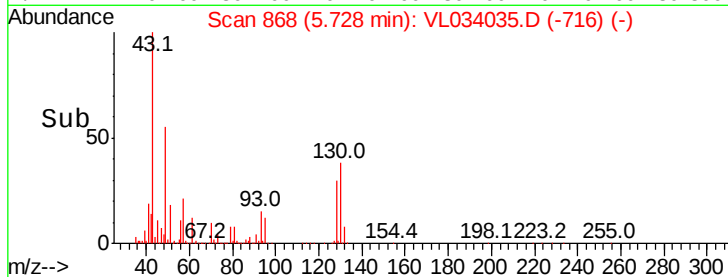
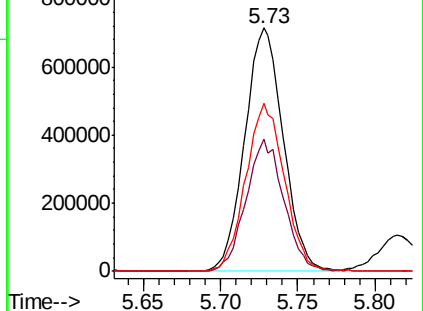
7/19/2019 1:37:10 AM



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: 7.712 ppbv

RT: 3.06 min Scan# 37

Delta R.T. -0.01 min

Lab File: VL034035.D

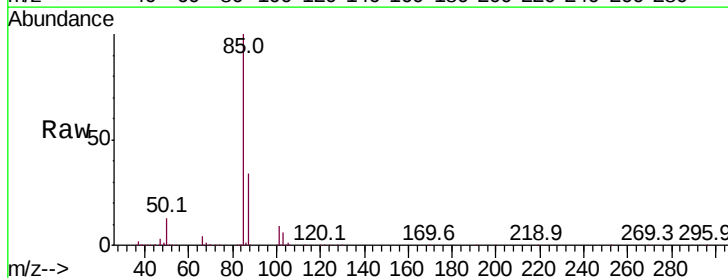
Acq: 17 Jul 2019 15:13

Tgt Ion: 85 Resp: 1971197

Ion Ratio Lower Upper

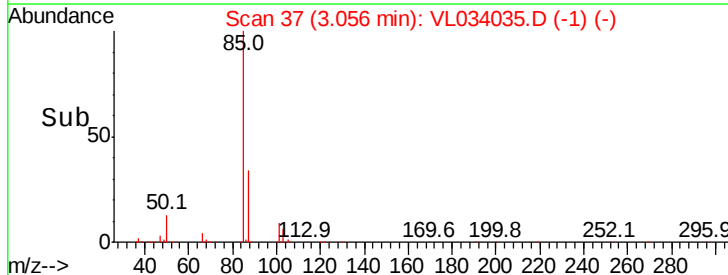
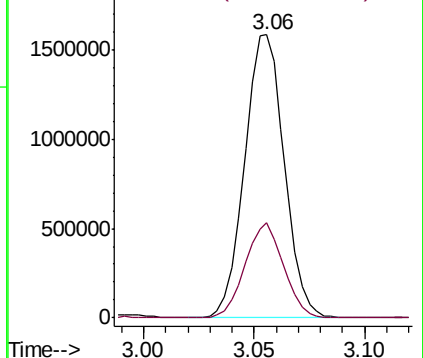
85 100

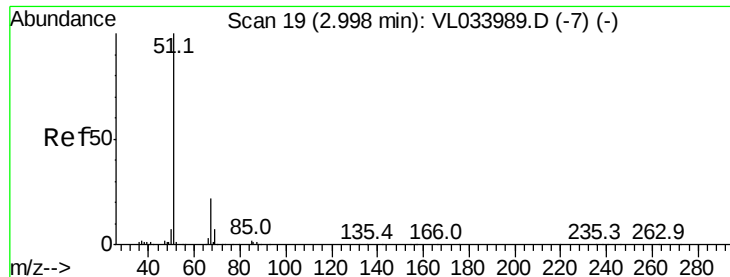
87 33.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





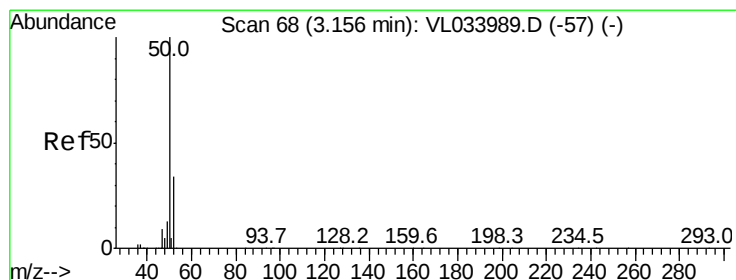
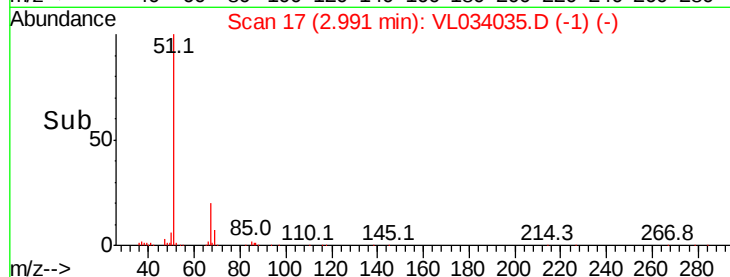
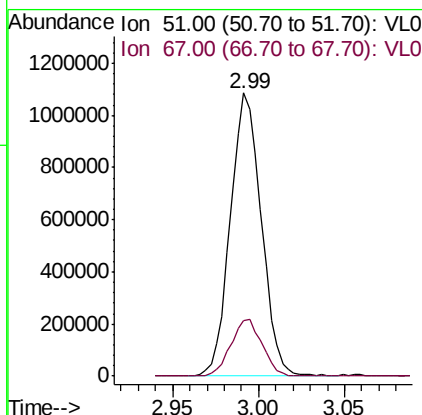
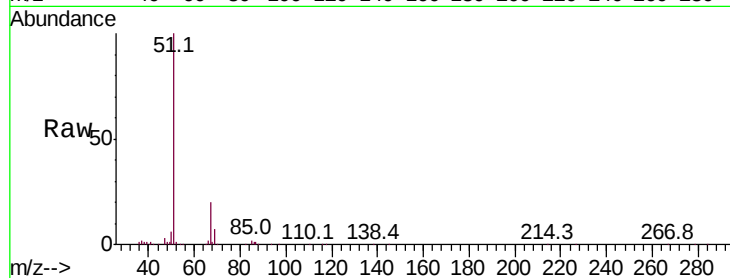
#3
Chlorodifluoromethane
Concen: 8.842 ppbv
RT: 2.99 min Scan# 17
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 51 Resp: 1352347
Ion Ratio Lower Upper
51 100
67 20.3 17.3 25.9

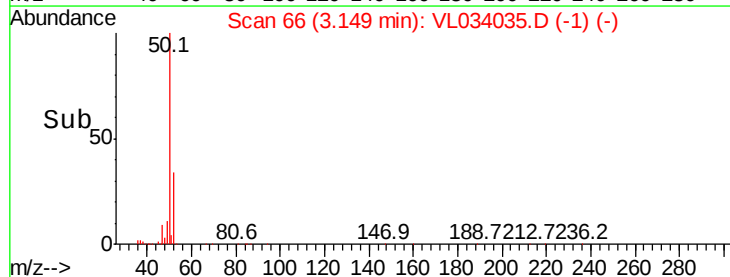
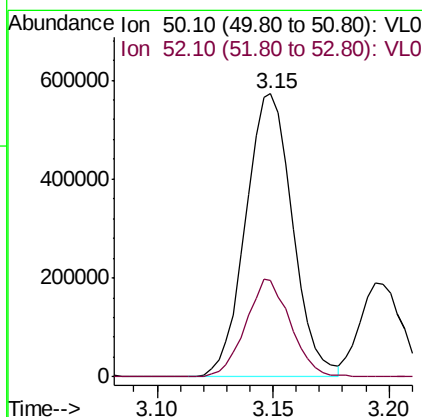
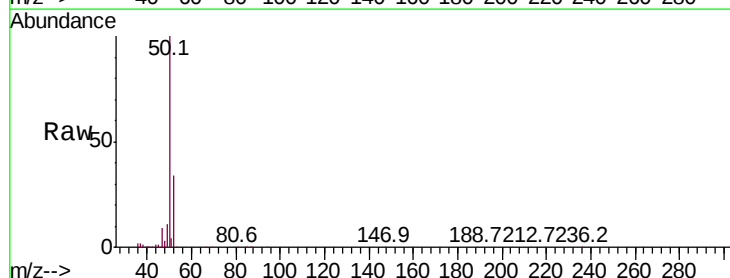
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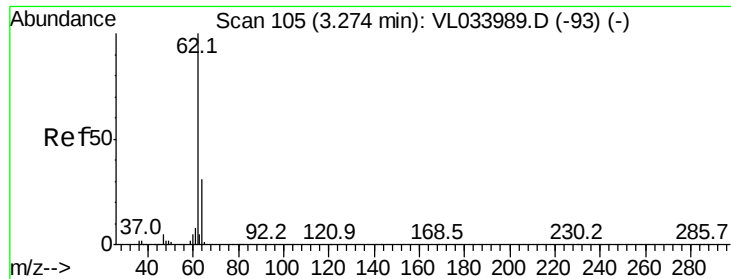
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#4
Chloromethane
Concen: 9.183 ppbv
RT: 3.15 min Scan# 66
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Tgt Ion: 50 Resp: 807554
Ion Ratio Lower Upper
50 100
52 33.8 27.4 41.0





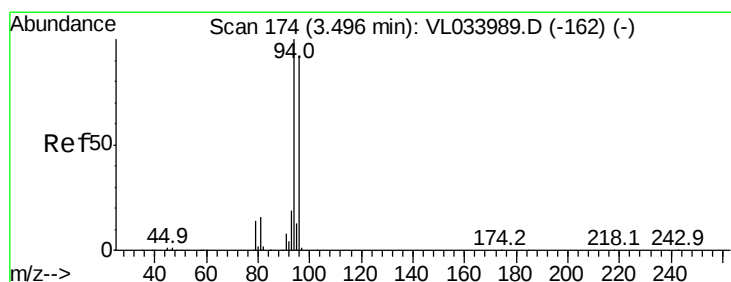
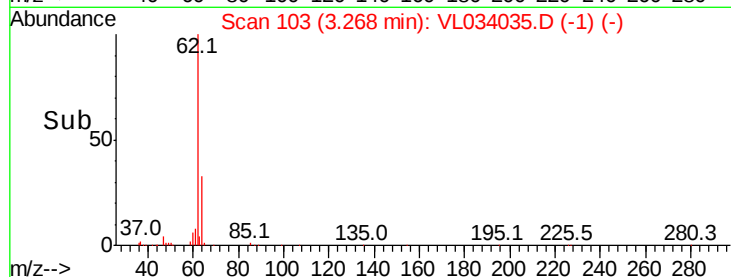
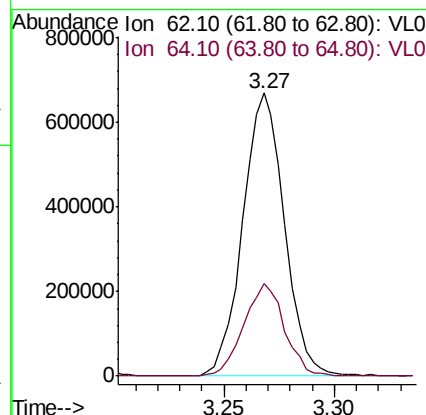
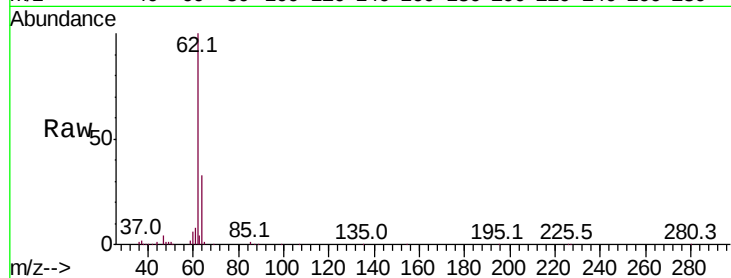
#5
 Vinyl Chloride
 Concen: 8.846 ppbv
 RT: 3.27 min Scan# 103
 Delta R.T. -0.01 min
 Lab File: VL034035.D
 Acq: 17 Jul 2019 15:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
62	100		
64	32.6	24.4	36.6

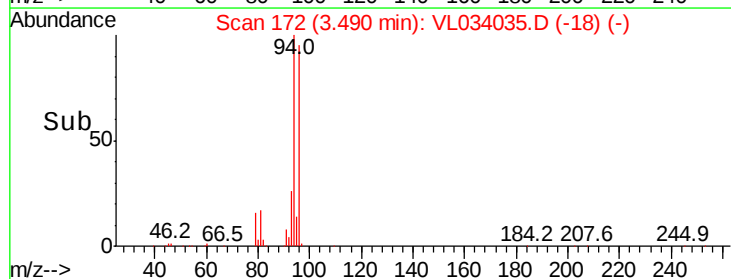
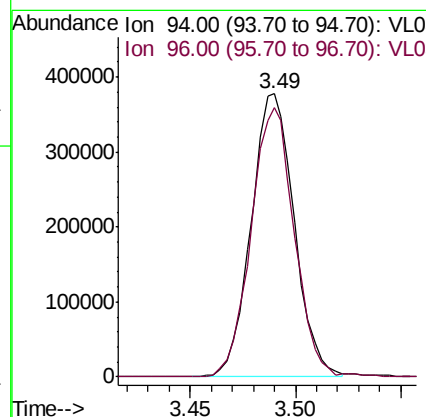
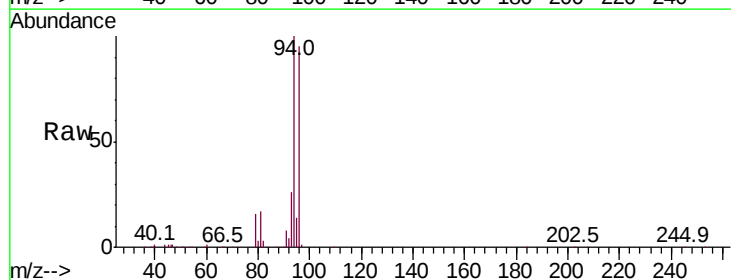
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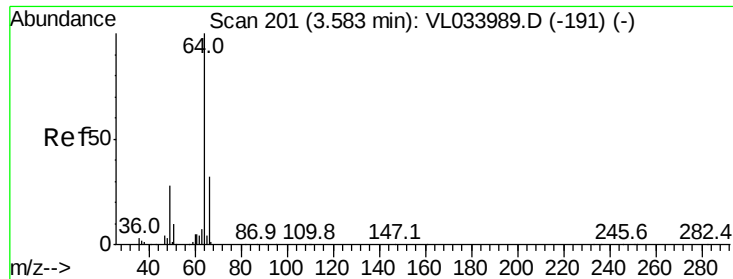
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#6
 Bromomethane
 Concen: 9.180 ppbv
 RT: 3.49 min Scan# 172
 Delta R.T. -0.01 min
 Lab File: VL034035.D
 Acq: 17 Jul 2019 15:13

Tgt Ion	Ratio	Lower	Upper
94	100		
96	95.2	73.8	110.8





#7

Chloroethane

Concen: 9.353 ppbv

RT: 3.57 min Scan# 198

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 330561

Ion Ratio Lower Upper

64 100

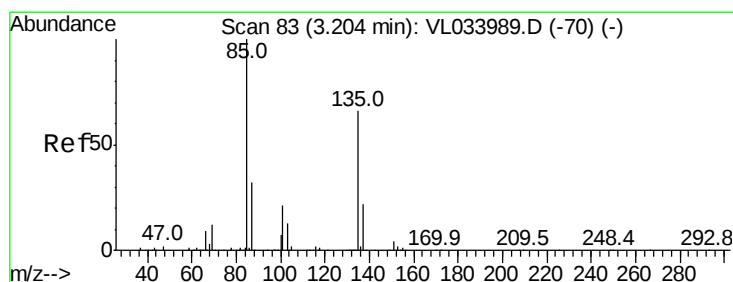
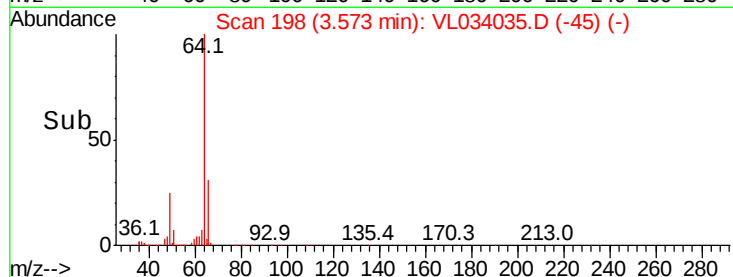
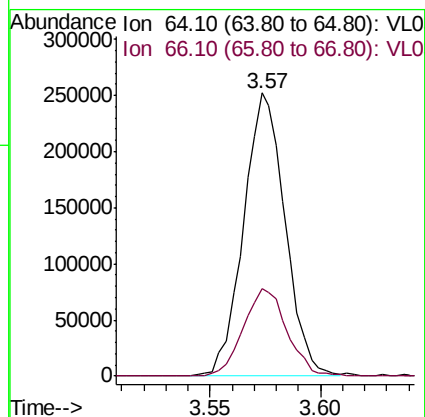
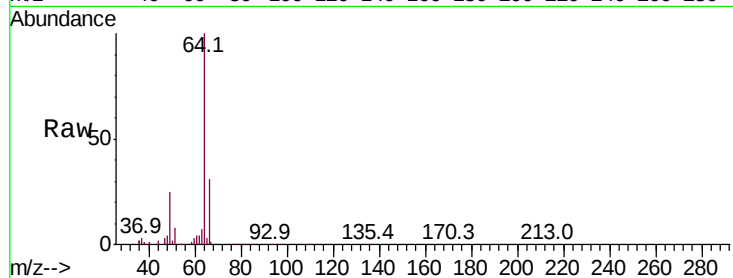
66 31.0 25.3 37.9

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.566 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL034035.D

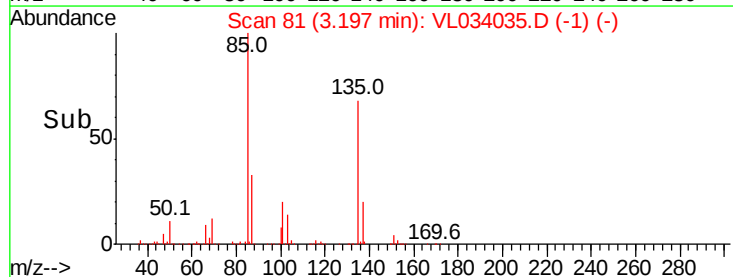
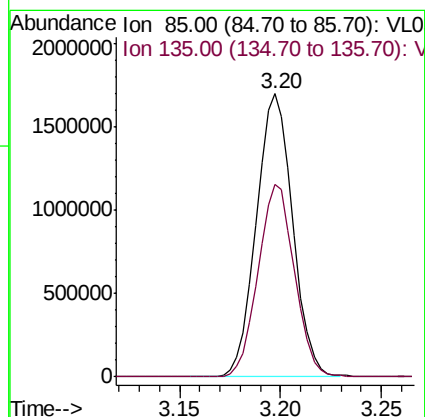
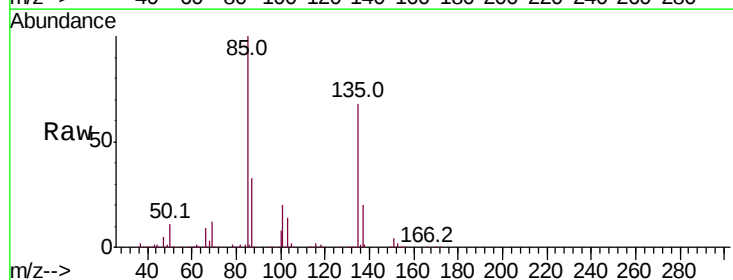
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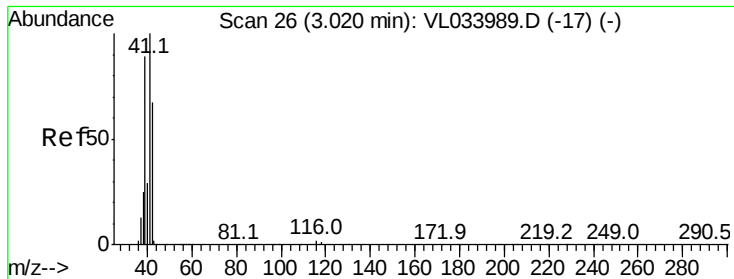
Tgt Ion: 85 Resp: 2134552

Ion Ratio Lower Upper

85 100

135 68.3 55.0 82.4





#9

Propene

Concen: 10.271 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 577896

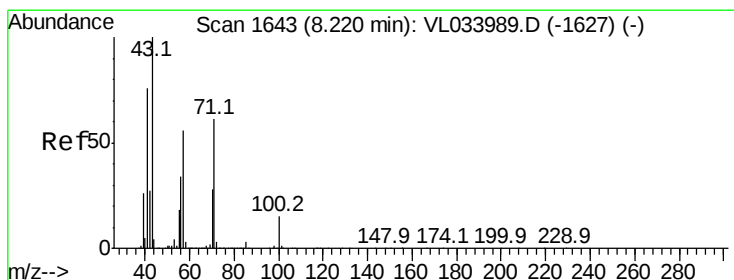
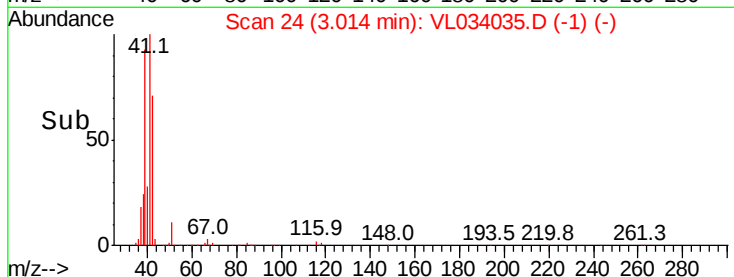
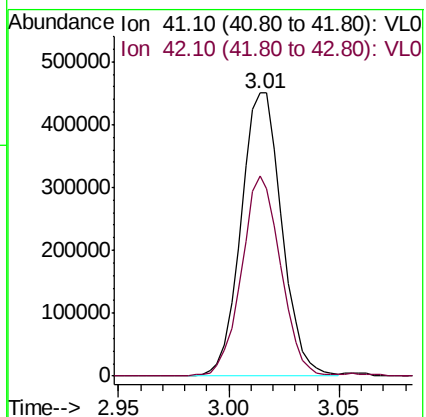
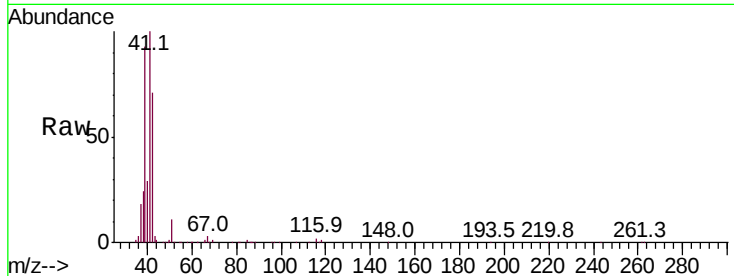
Ion Ratio Lower Upper

41 100

42 68.5 57.1 85.7

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#10

Heptane

Concen: 10.790 ppbv

RT: 8.21 min Scan# 1639

Delta R.T. -0.01 min

Lab File: VL034035.D

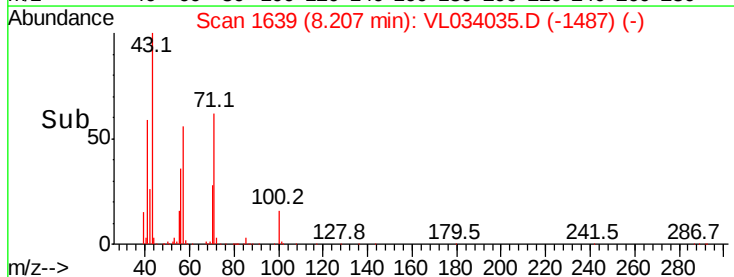
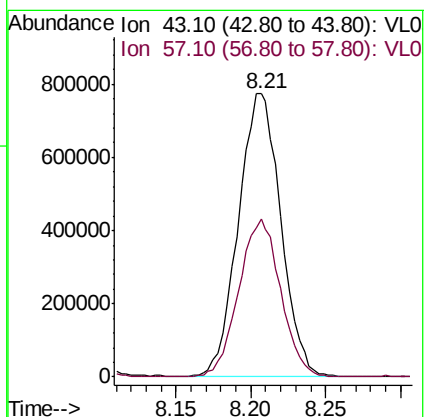
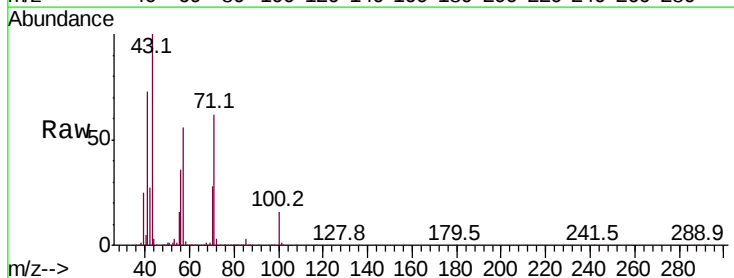
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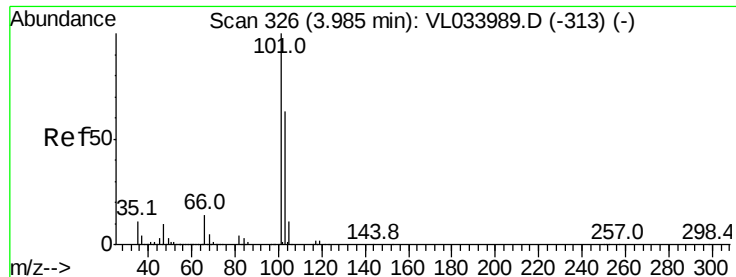
Tgt Ion: 43 Resp: 1519994

Ion Ratio Lower Upper

43 100

57 55.1 44.6 66.8





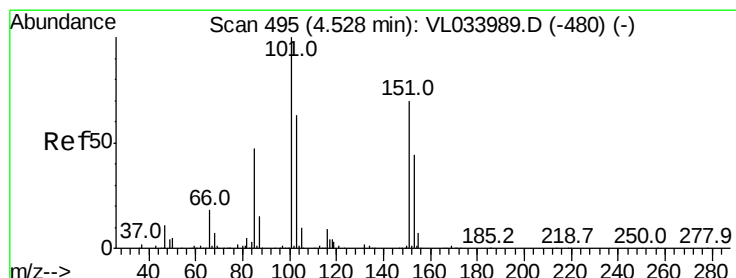
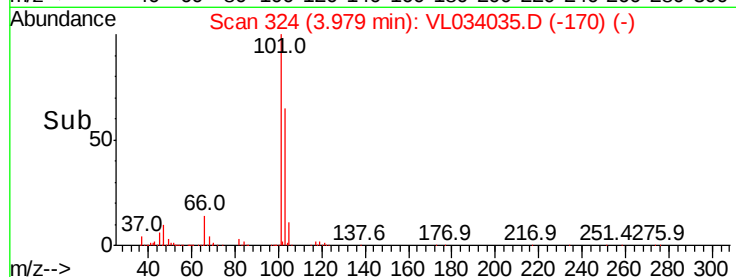
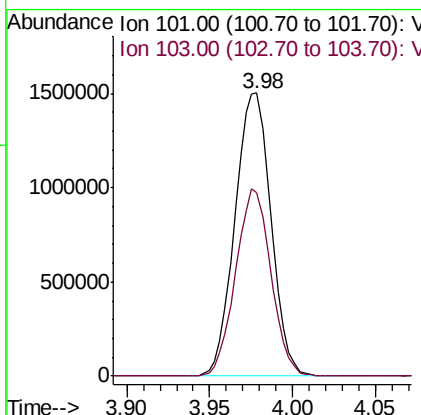
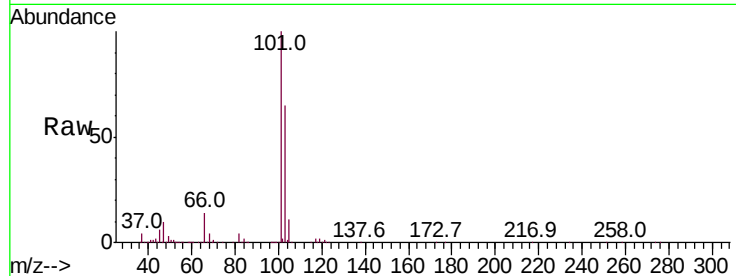
#11
 Trichlorofluoromethane
 Concen: 7.901 ppbv
 RT: 3.98 min Scan# 324
 Delta R.T. -0.01 min
 Lab File: VL034035.D
 Acq: 17 Jul 2019 15:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 2270655
 Ion Ratio Lower Upper
 101 100
 103 64.8 50.8 76.2

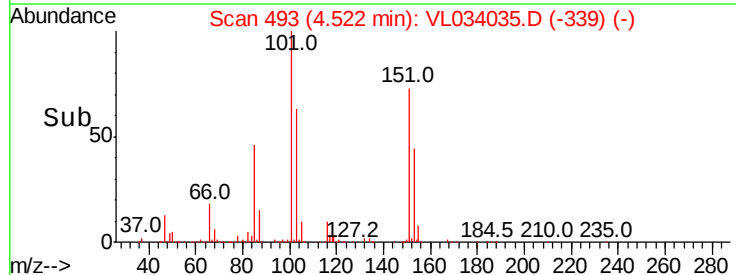
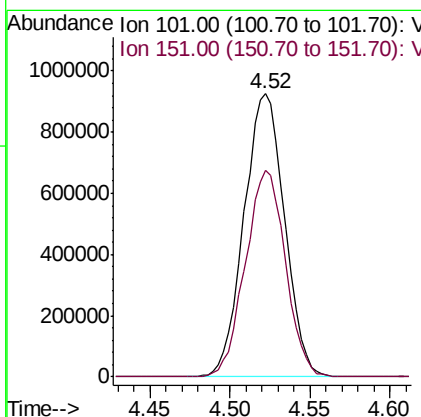
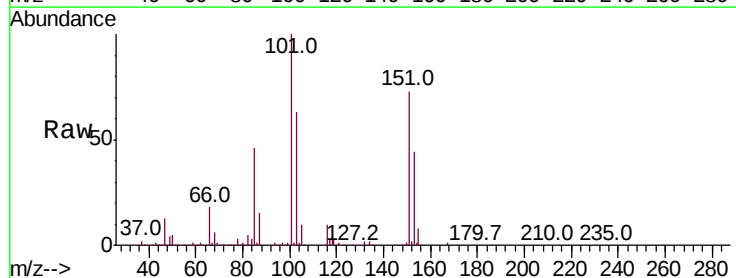
Manual Integrations
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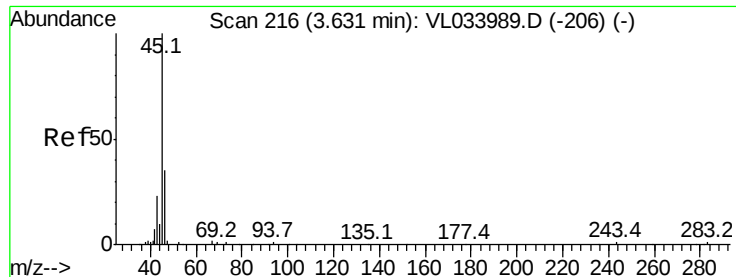
MMDadoda
 7/19/2019 1:37:10 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 7.906 ppbv
 RT: 4.52 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: VL034035.D
 Acq: 17 Jul 2019 15:13

Tgt Ion:101 Resp: 1608318
 Ion Ratio Lower Upper
 101 100
 151 72.2 59.0 88.4





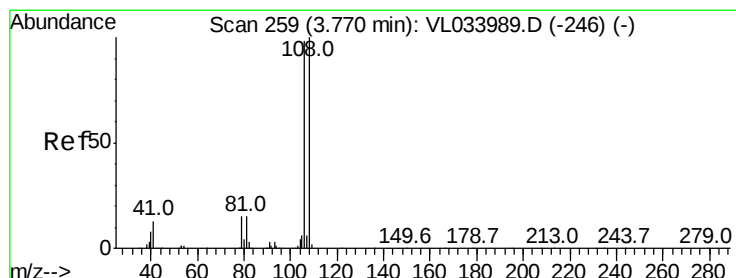
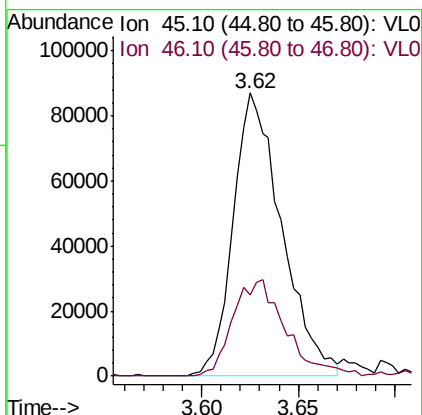
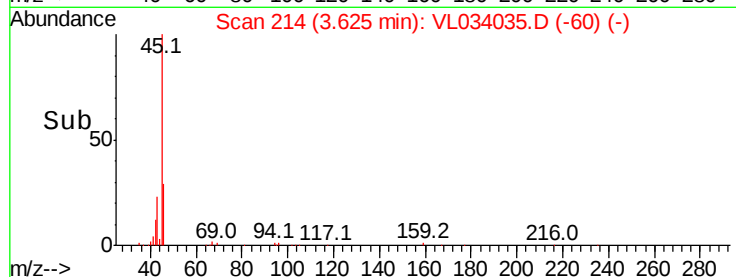
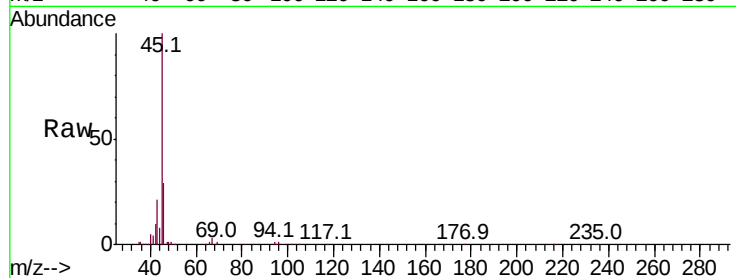
#13
Ethanol
Concen: 8.701 ppbv
RT: 3.62 min Scan# 214
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 152085
Ion Ratio Lower Upper
45 100
46 36.8 16.2 64.6

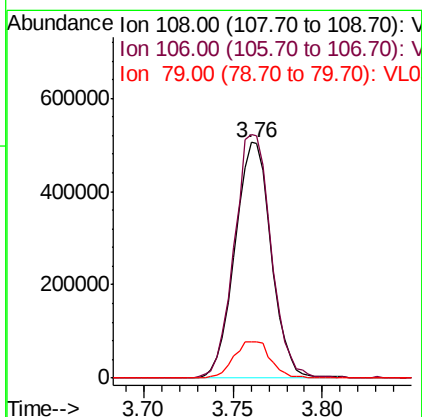
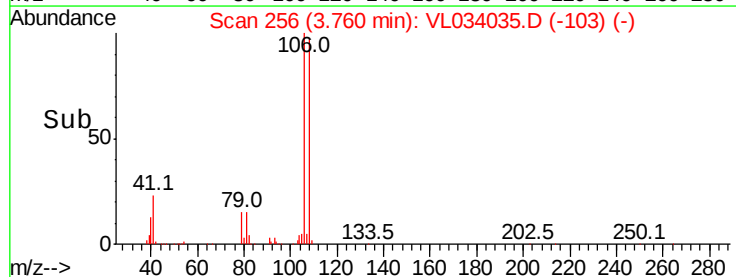
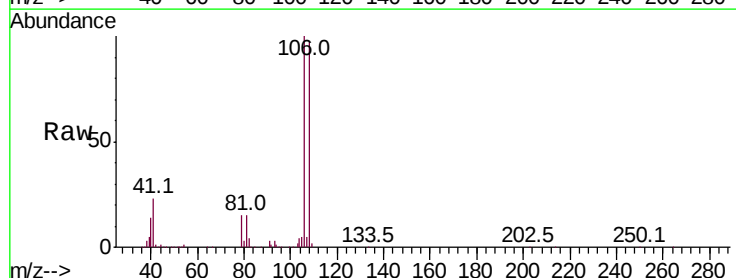
Manual Integrations
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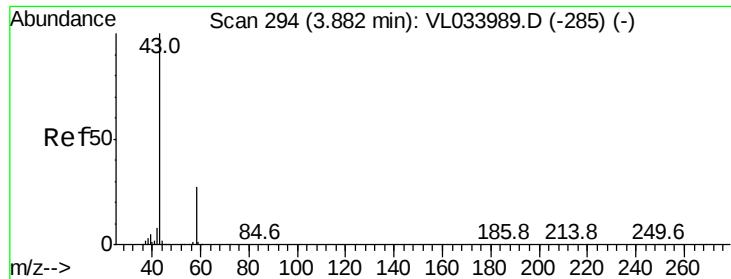
MMDadoda
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#14
Bromoethene
Concen: 9.468 ppbv
RT: 3.76 min Scan# 256
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Tgt Ion: 108 Resp: 719242
Ion Ratio Lower Upper
108 100
106 105.1 85.6 128.4
79 16.0 14.0 21.0





#15

Acetone

Concen: 7.705 ppbv

RT: 3.87 min Scan# 291

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1604417

Ion Ratio Lower Upper

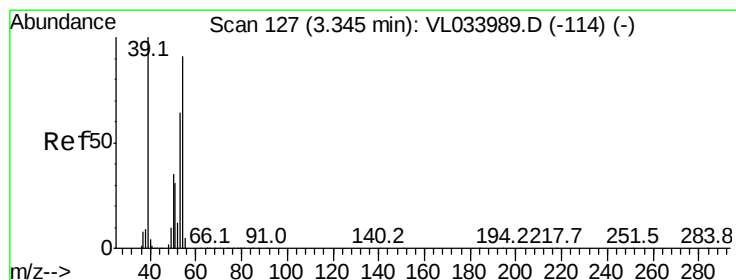
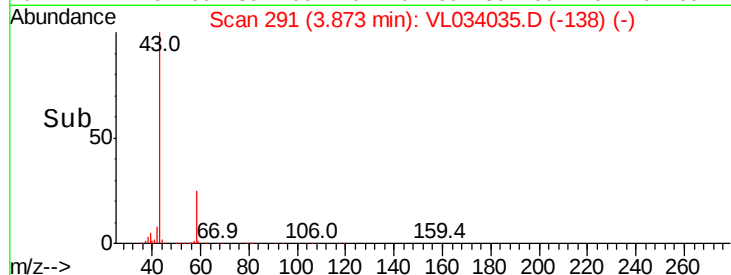
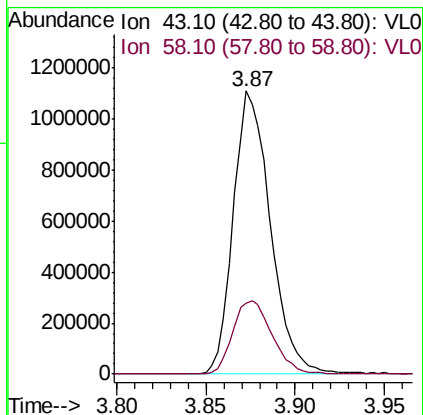
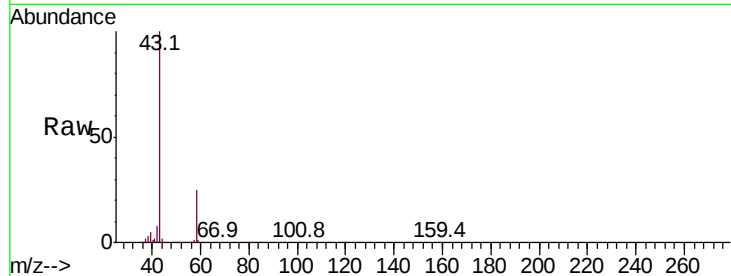
43 100

58 27.8 21.4 32.0

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#16

1,3-Butadiene

Concen: 9.980 ppbv

RT: 3.34 min Scan# 125

Delta R.T. -0.01 min

Lab File: VL034035.D

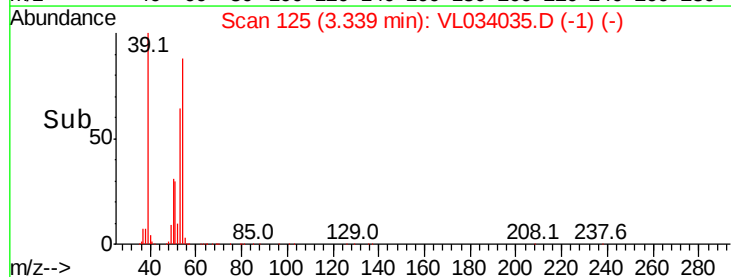
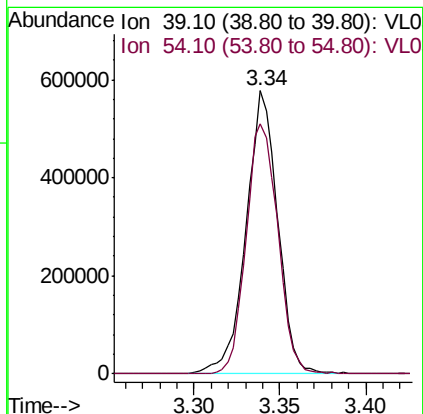
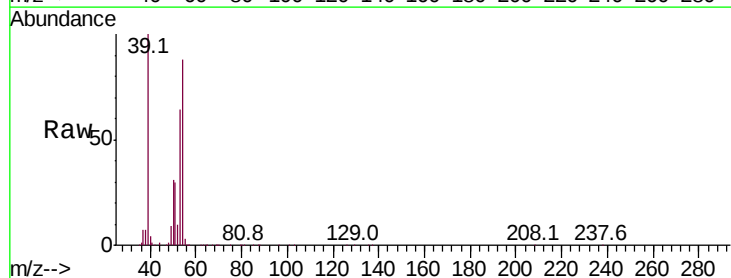
Acq: 17 Jul 2019 15:13

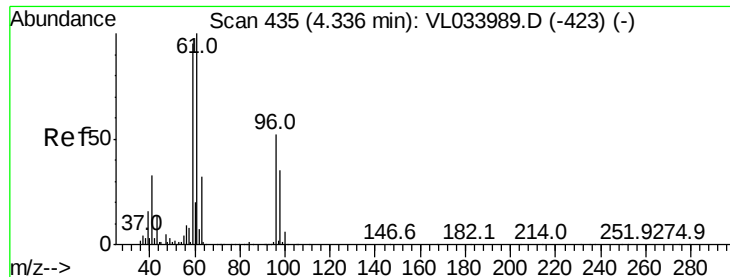
Tgt Ion: 39 Resp: 733810

Ion Ratio Lower Upper

39 100

54 89.3 71.4 107.2





#17

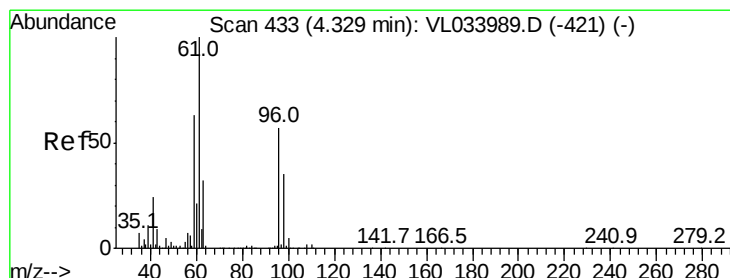
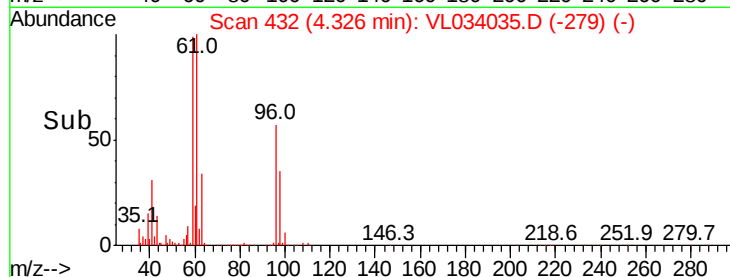
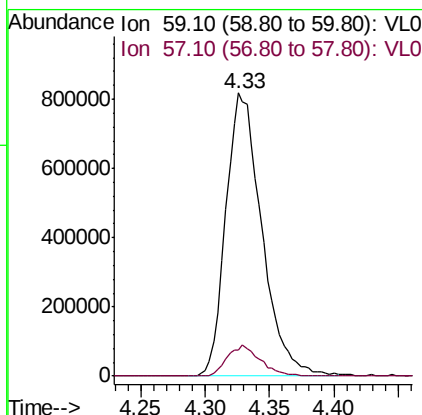
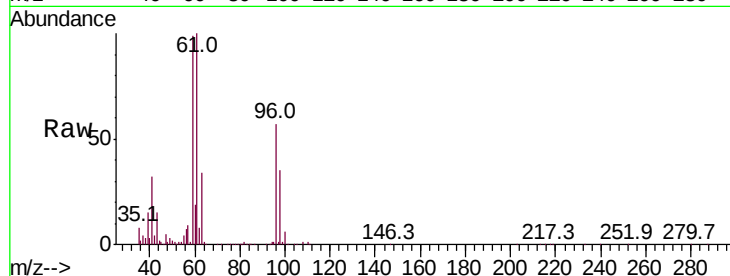
tert-Butyl alcohol
Concen: 9.547 ppbv
RT: 4.33 min Scan# 432
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 1584982
Ion Ratio Lower Upper
59 100
57 10.3 8.2 12.2

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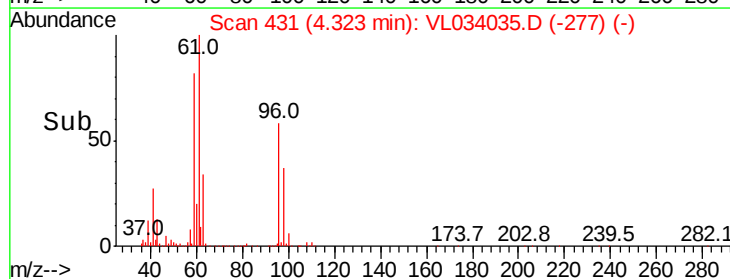
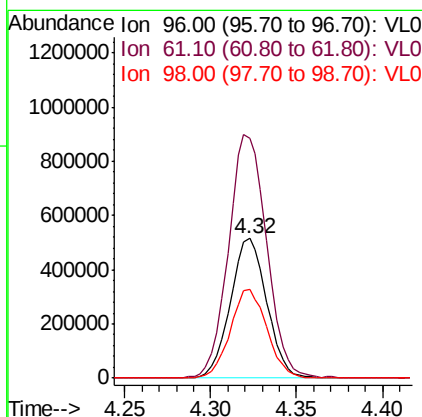
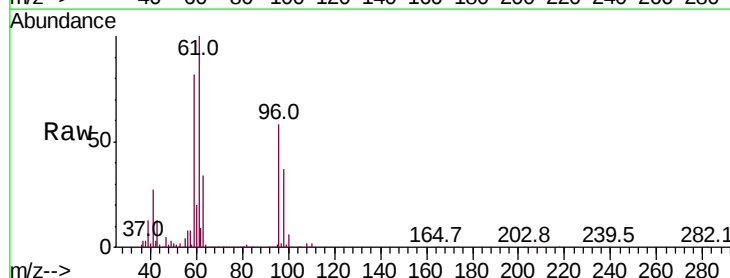
MMDadoda
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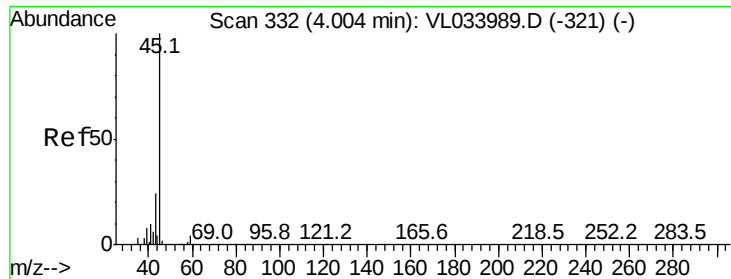


#18

1,1-Dichloroethene
Concen: 8.388 ppbv
RT: 4.32 min Scan# 431
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Tgt Ion: 96 Resp: 759951
Ion Ratio Lower Upper
96 100
61 171.2 139.4 209.0
98 63.0 49.4 74.0





#19

Isopropyl Alcohol

Concen: 8.942 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 1249844

Ion Ratio Lower Upper

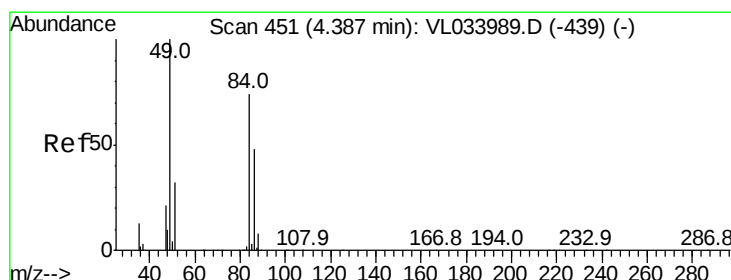
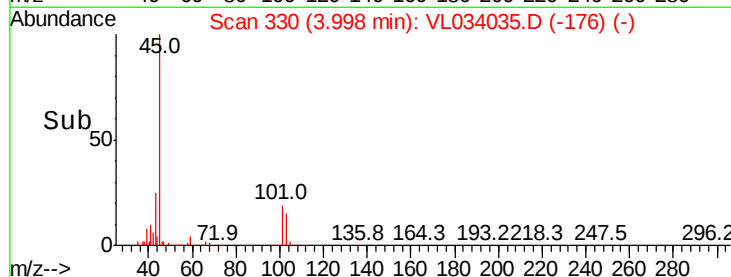
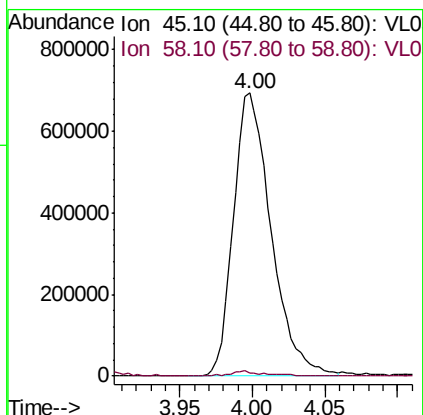
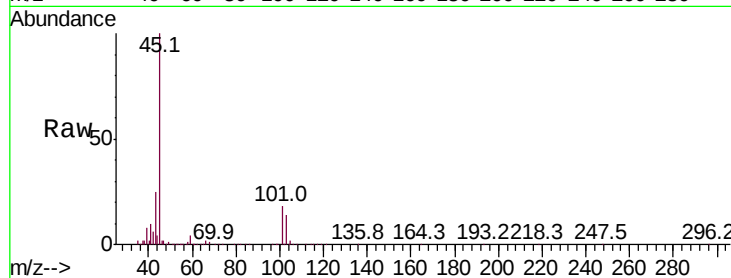
45 100

58 1.8 1.7 2.5

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#20

Methylene Chloride

Concen: 7.323 ppbv

RT: 4.38 min Scan# 449

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Tgt Ion: 84 Resp: 665101

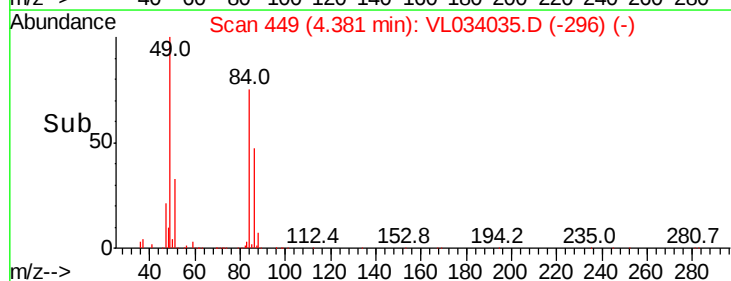
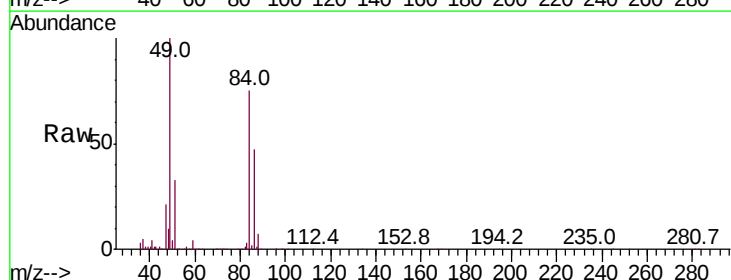
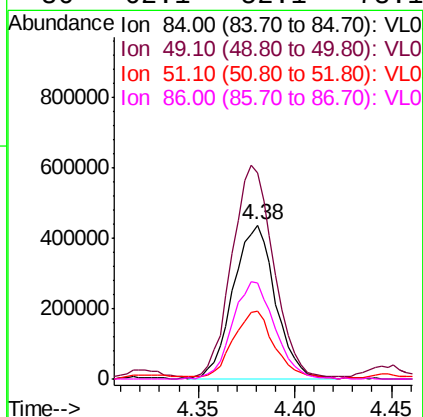
Ion Ratio Lower Upper

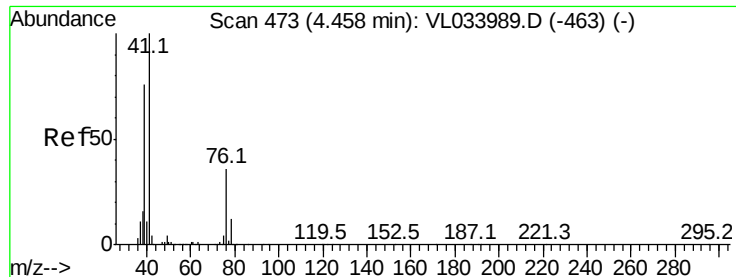
84 100

49 132.4 107.6 161.4

51 43.9 35.0 52.6

86 62.1 52.1 78.1





#21

Allvl Chloride

Concen: 8.970 ppbv

RT: 4.45 min Scan# 470

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

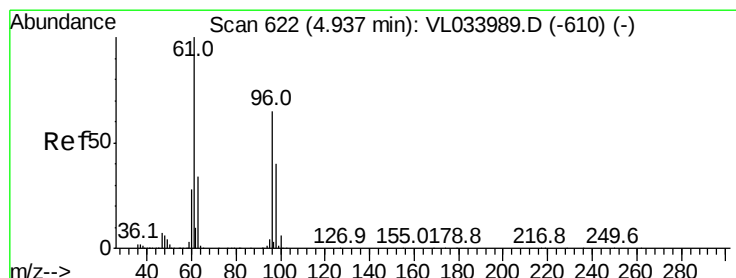
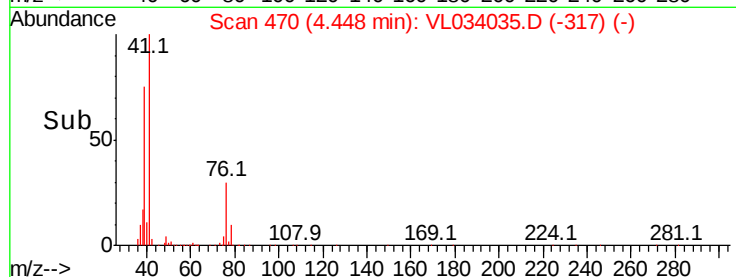
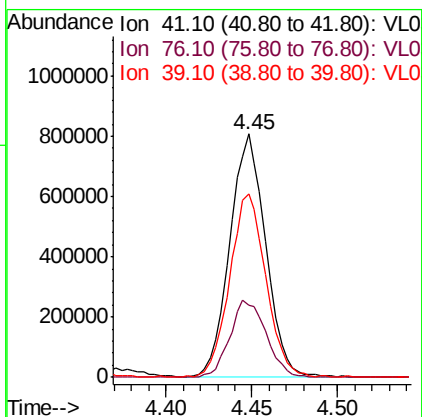
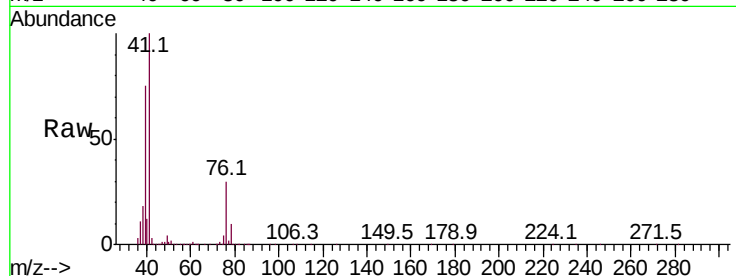
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	1164656
Ion	Ratio	Lower	Upper
41	100		
76	32.3	26.8	40.2
39	76.9	63.1	94.7

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#22

trans-1,2-Dichloroethene

Concen: 8.866 ppbv

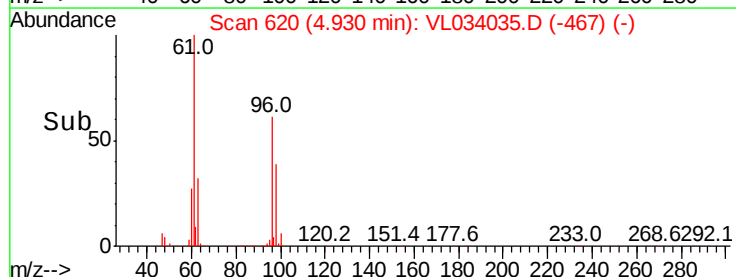
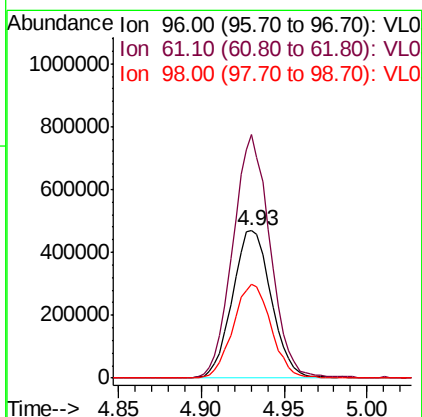
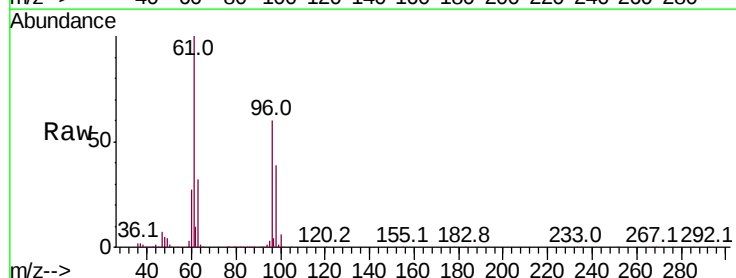
RT: 4.93 min Scan# 620

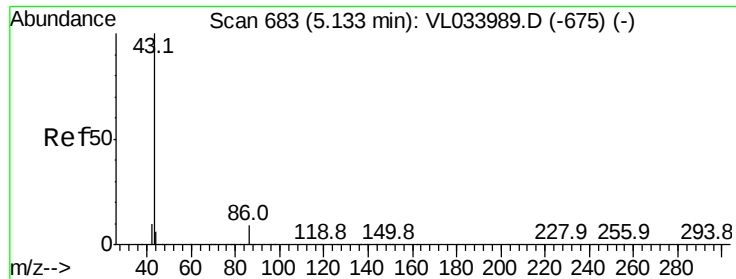
Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Tgt Ion:	96	Resp:	765420
Ion	Ratio	Lower	Upper
96	100		
61	165.5	122.9	184.3
98	63.7	49.6	74.4





#23

Vinyl Acetate

Concen: 10.634 ppbv

RT: 5.12 min Scan# 680

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2210160

Ion Ratio Lower Upper

43 100

86 8.4 6.6 9.8

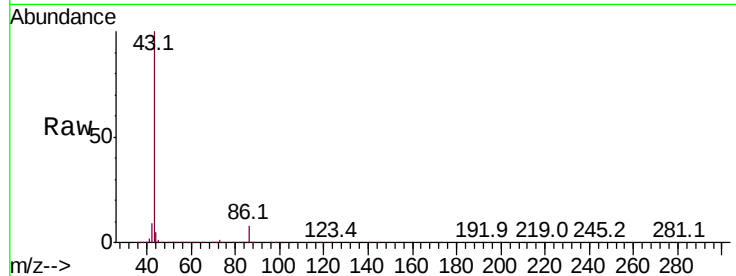
42 9.4 8.3 12.5

44 4.9 4.3 6.5

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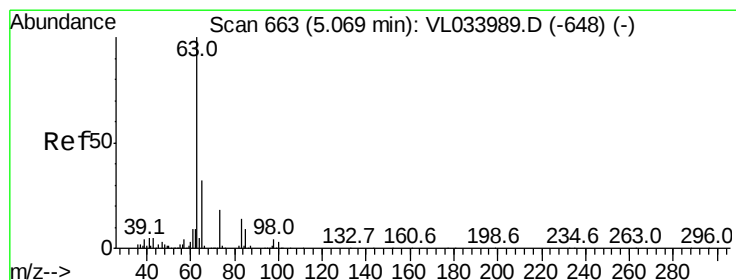
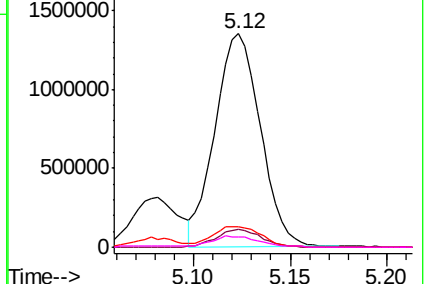
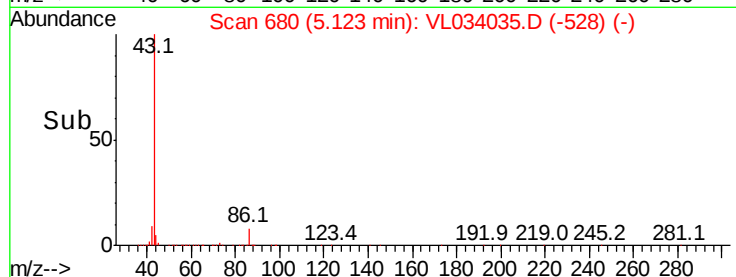


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.284 ppbv

RT: 5.06 min Scan# 660

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

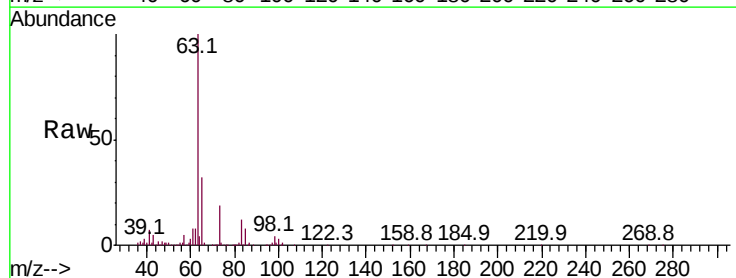
Tgt Ion: 63 Resp: 1710051

Ion Ratio Lower Upper

63 100

98 4.3 2.2 6.6

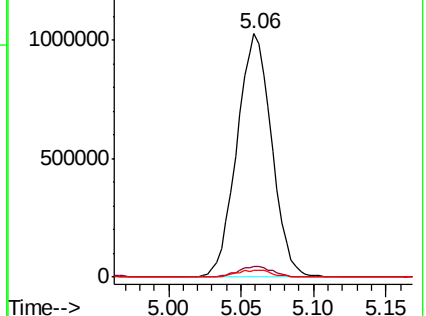
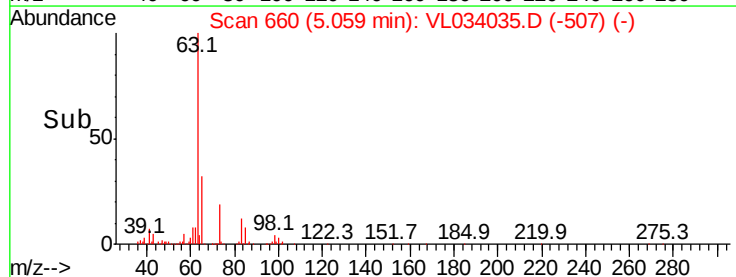
100 2.9 1.4 4.2

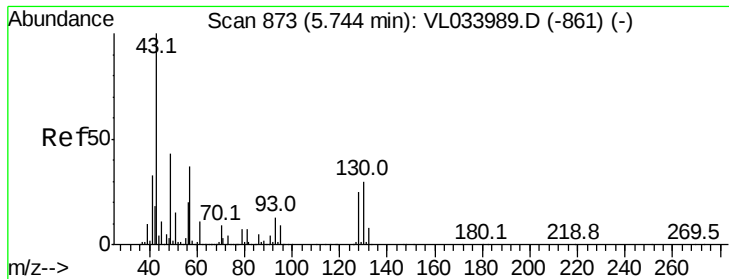


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





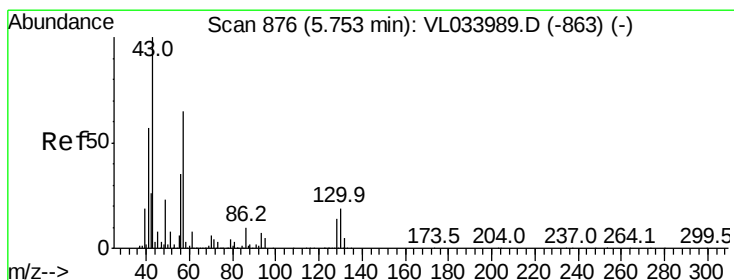
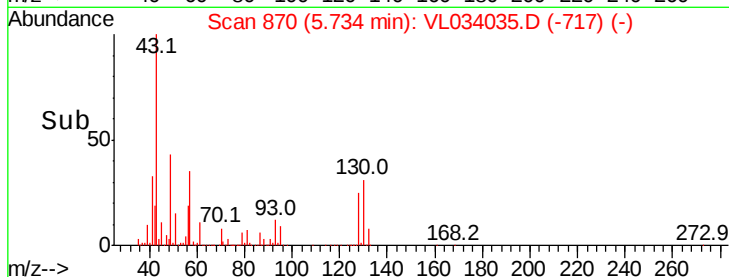
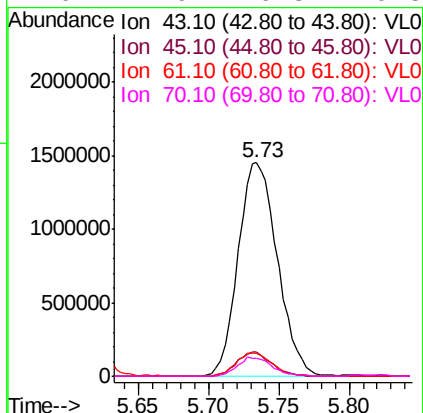
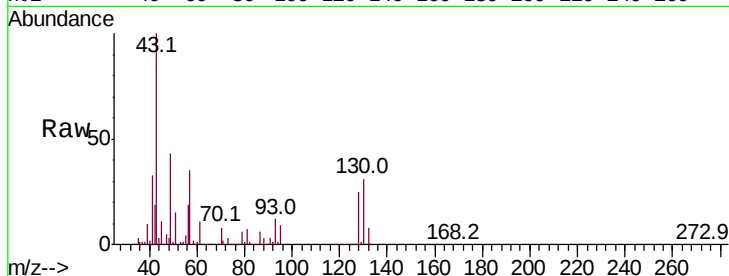
#25
Ethyl Acetate
Concen: 9.917 ppbv
RT: 5.73 min Scan# 870
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	10.1	8.1	12.1
70	7.9	6.3	9.5

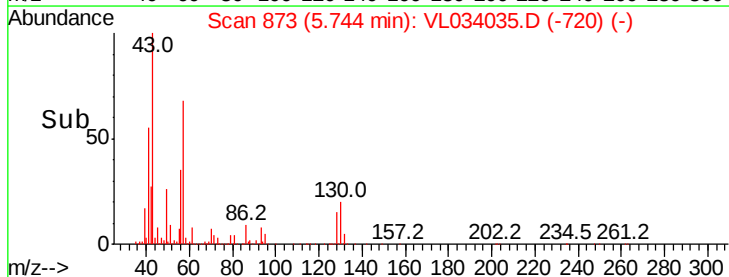
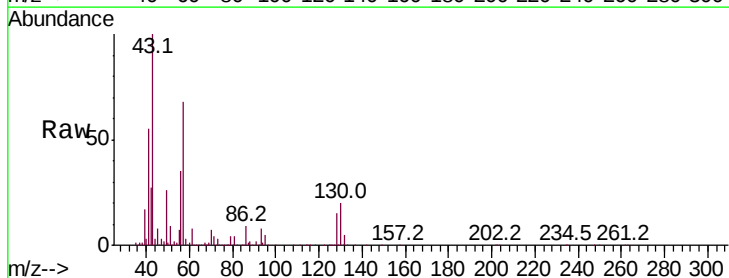
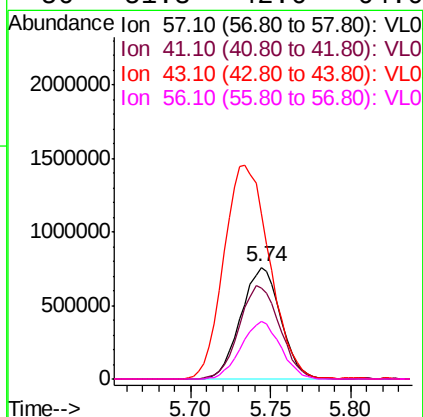
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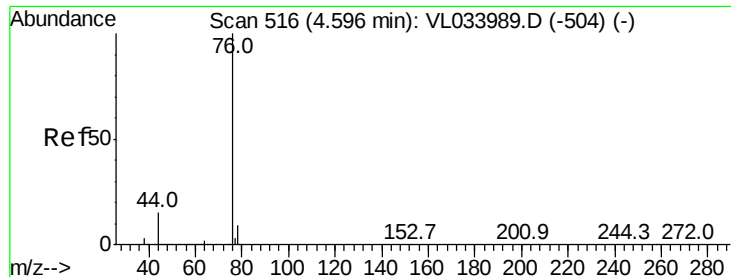
MMDadoda
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#26
Hexane
Concen: 9.851 ppbv
RT: 5.74 min Scan# 873
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.3	70.6	105.8
43	221.7	177.6	266.4
56	51.3	42.6	64.0





#27

Carbon Disulfide

Concen: 8.941 ppbv

RT: 4.59 min Scan# 514

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1980998

Ion Ratio Lower Upper

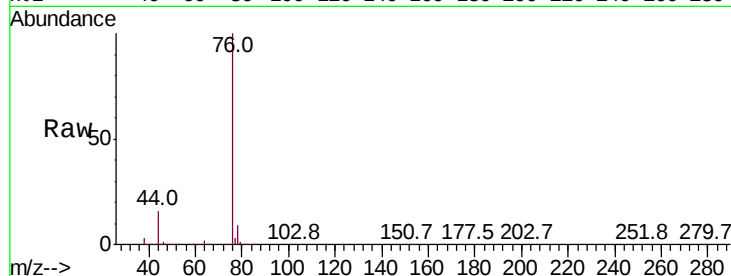
76 100

44 15.9 12.6 18.8

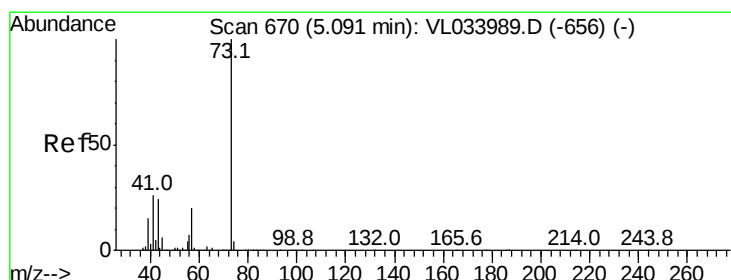
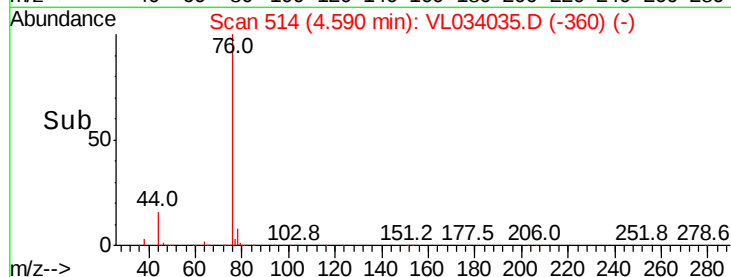
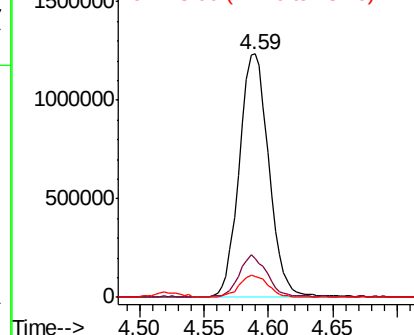
78 8.8 7.2 10.8

Manual Integrations
APPROVED

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7/19/2019 1:37:10 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: 10.390 ppbv

RT: 5.08 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL034035.D

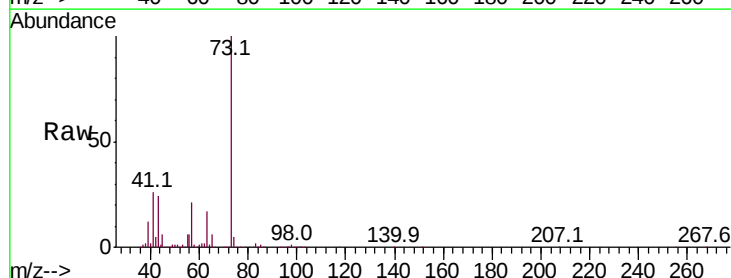
Acq: 17 Jul 2019 15:13

Tgt Ion: 73 Resp: 2293209

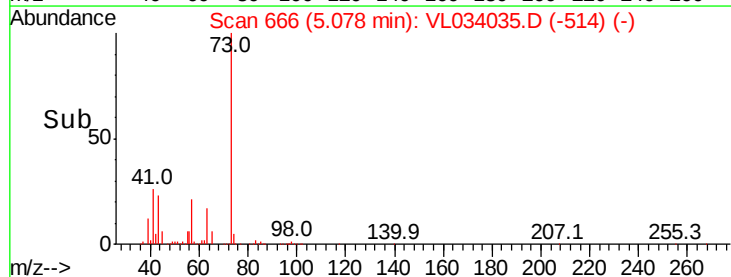
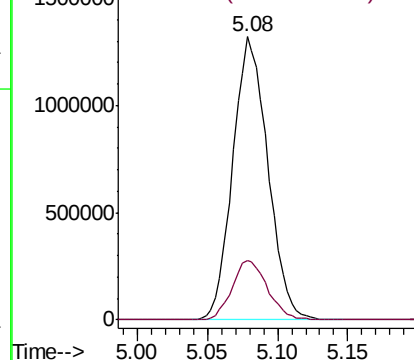
Ion Ratio Lower Upper

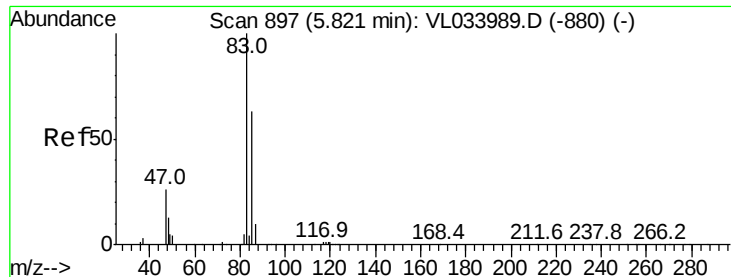
73 100

57 21.4 16.9 25.3



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





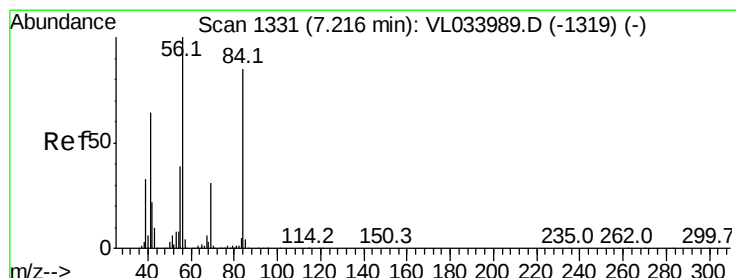
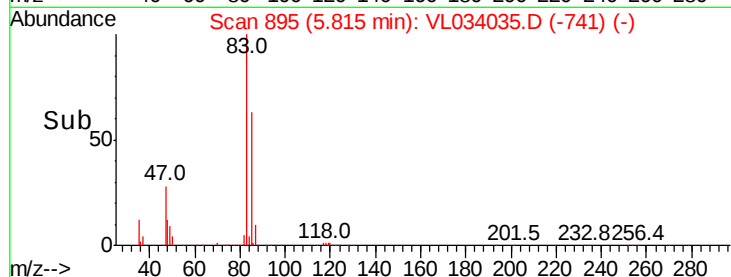
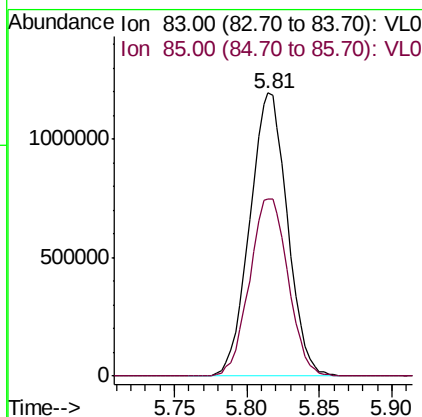
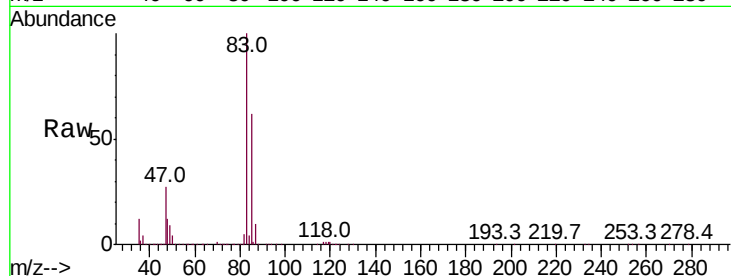
#29
Chloroform
Concen: 8.802 ppbv
RT: 5.81 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2156017
Ion Ratio Lower Upper
83 100
85 62.3 50.6 75.8

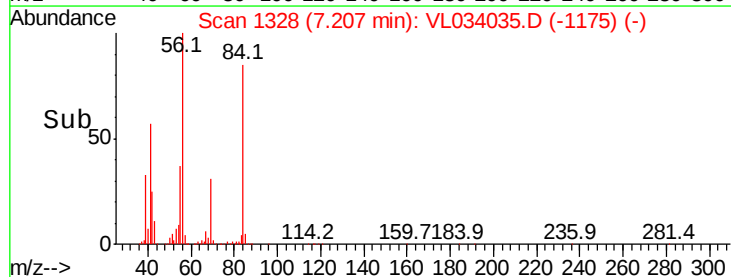
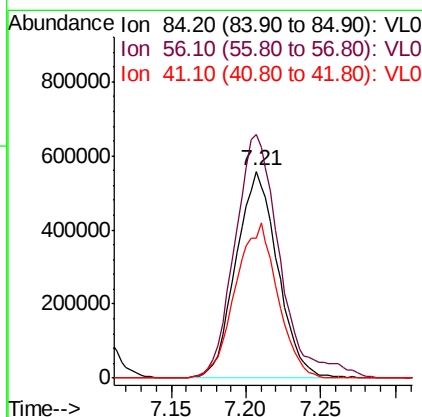
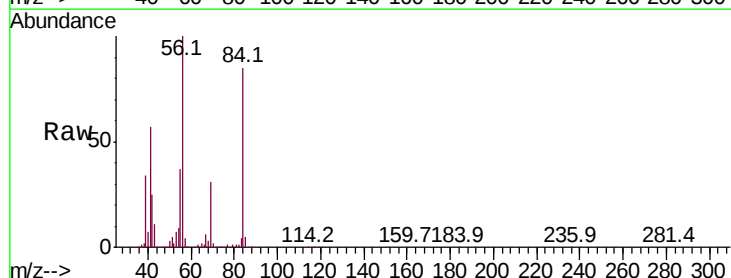
Manual Integrations
APPROVED

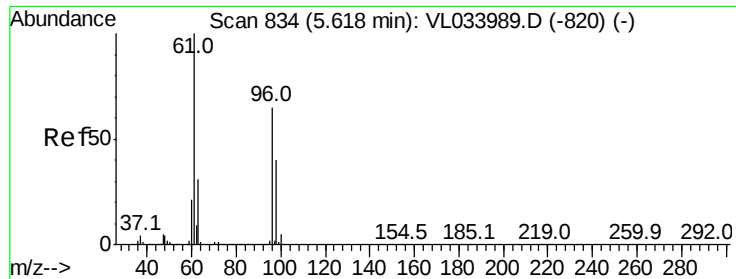
MMDadoda
7/19/2019 1:37:10 AM



#30
Cyclohexane
Concen: 10.685 ppbv
RT: 7.21 min Scan# 1328
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Tgt Ion: 84 Resp: 1075483
Ion Ratio Lower Upper
84 100
56 128.4 103.7 155.5
41 76.8 62.6 94.0





#31

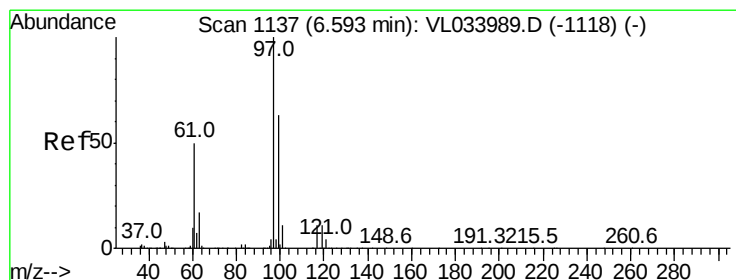
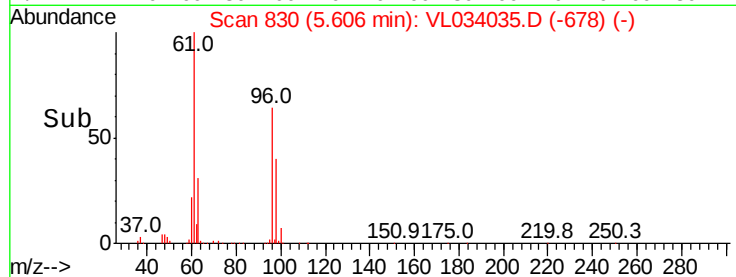
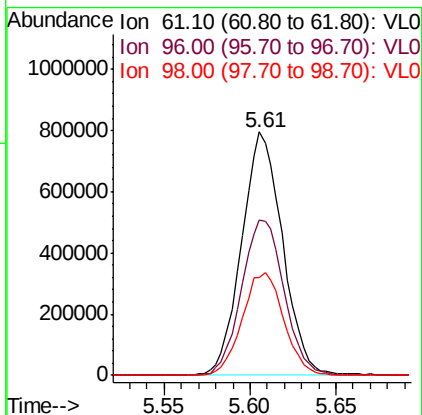
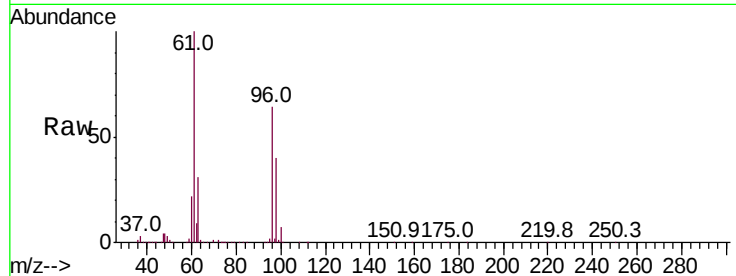
cis-1,2-Dichloroethene
Concen: 10.381 ppbv
RT: 5.61 min Scan# 830
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.0	51.8	77.6
98	39.9	32.1	48.1

Manual Integrations
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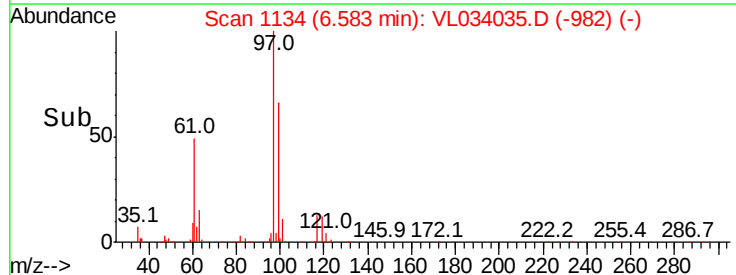
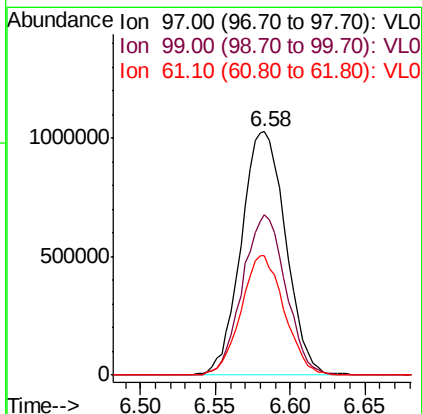
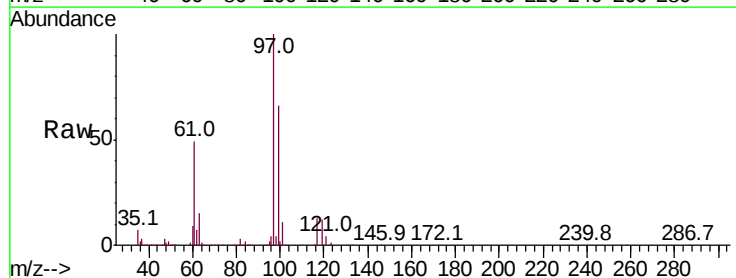
MMDadoda
7/19/2019 1:37:10 AM

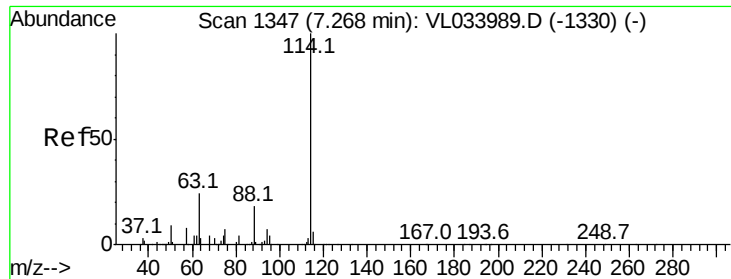


#32

1,1,1-Trichloroethane
Concen: 8.542 ppbv
RT: 6.58 min Scan# 1134
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.9	77.9
61	47.9	39.8	59.8





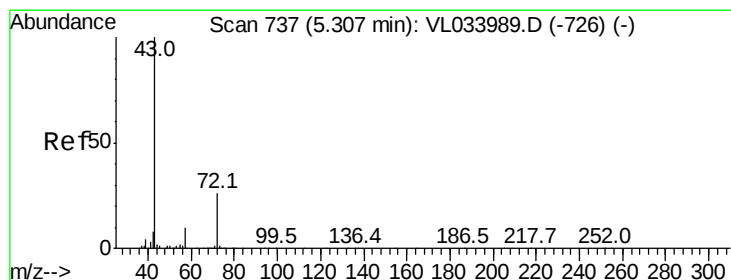
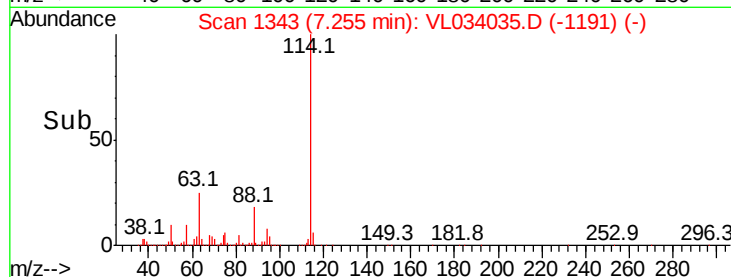
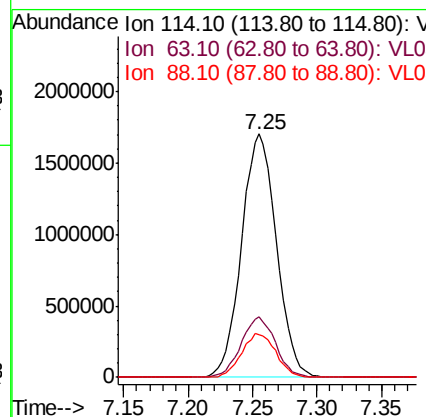
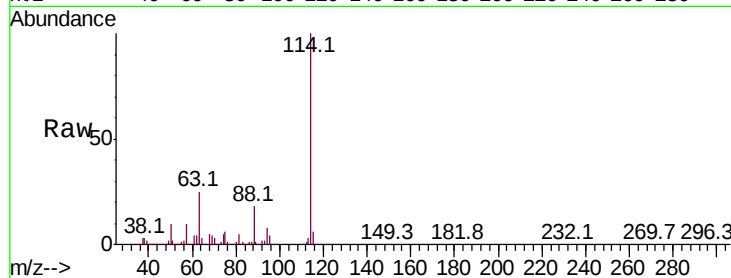
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1343
 Delta R.T. -0.01 min
 Lab File: VL034035.D
 Acq: 17 Jul 2019 15:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.8	20.2	30.2
88	17.9	14.1	21.1

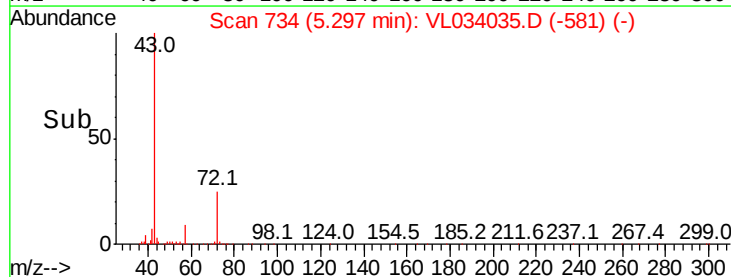
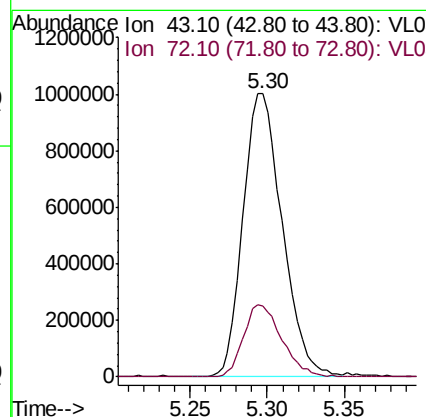
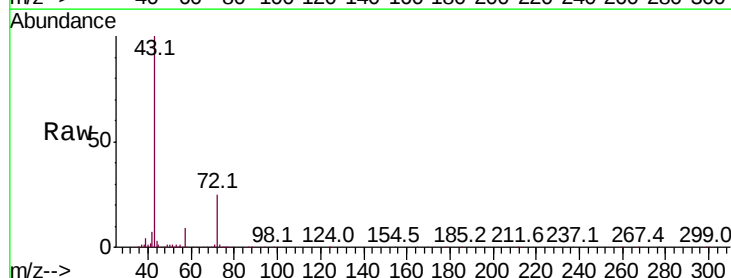
Manual Integrations
 APPROVED

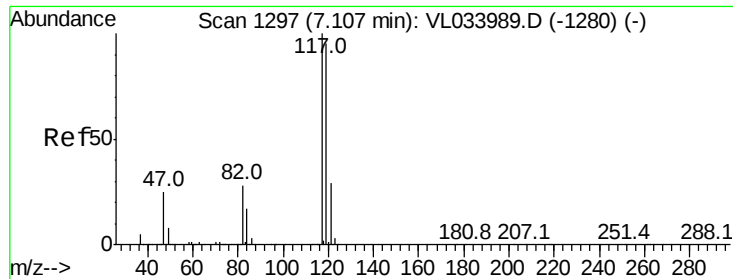
MMDadoda
 7/19/2019 1:37:10 AM



#34
 2-Butanone
 Concen: 10.365 ppbv
 RT: 5.30 min Scan# 734
 Delta R.T. -0.01 min
 Lab File: VL034035.D
 Acq: 17 Jul 2019 15:13

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.1	19.9	29.9





#35

Carbon Tetrachloride

Concen: 8.745 ppbv

RT: 7.10 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

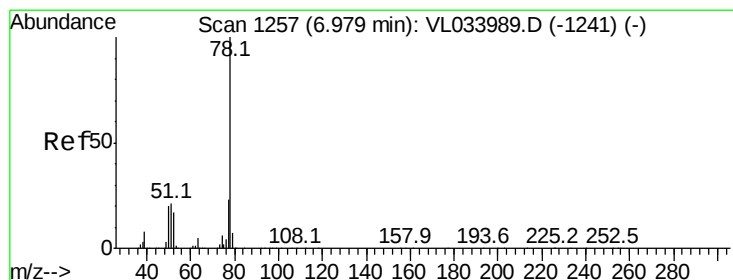
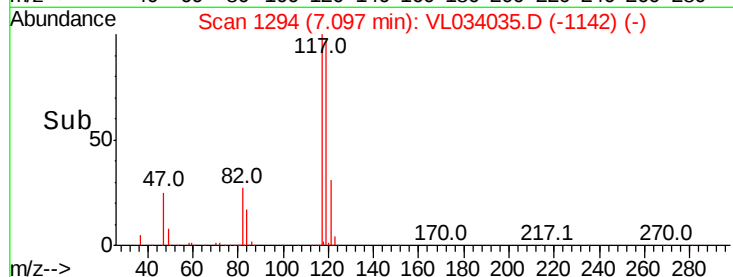
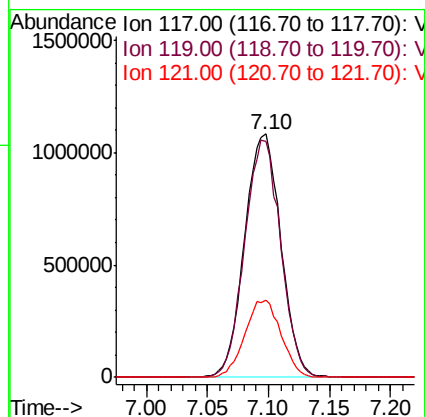
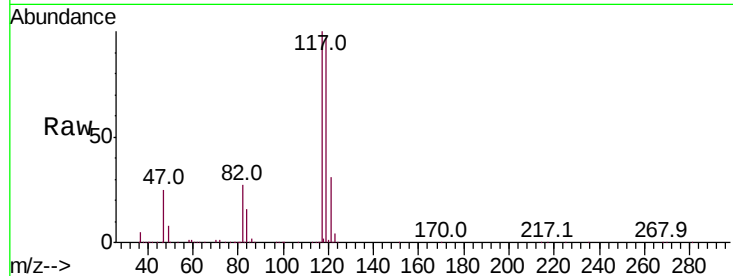
ClientSampleId :

VSTDCCC010

Tot Ion:	117	Resp:	2217844
Ion	Ratio	Lower	Upper
117	100		
119	96.9	75.8	113.6
121	31.5	23.4	35.2

Manual Integrations
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MMDadoda
7/19/2019 1:37:10 AM



#36

Benzene

Concen: 10.526 ppbv

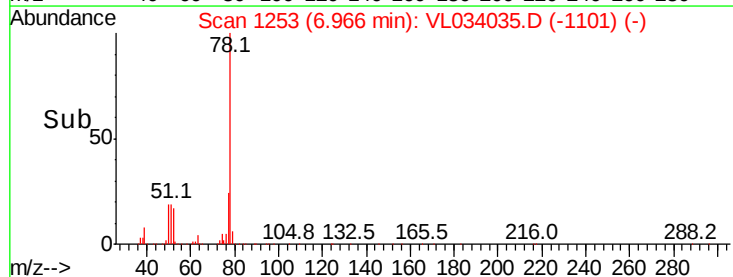
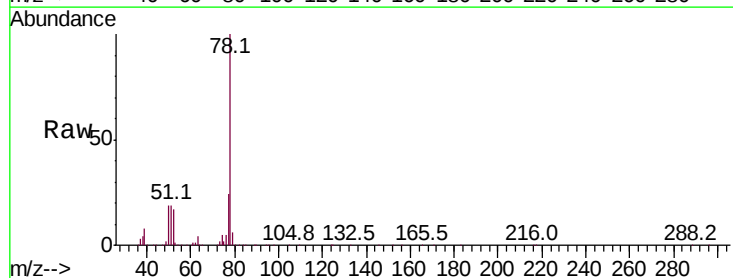
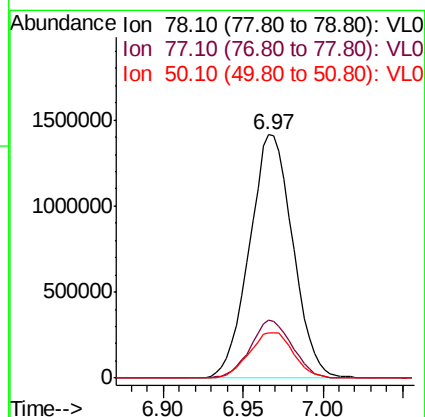
RT: 6.97 min Scan# 1253

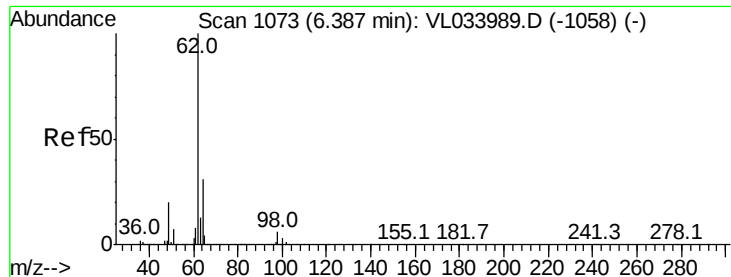
Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Tgt Ion:	78	Resp:	2638567
Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.7	28.1
50	18.7	16.2	24.2





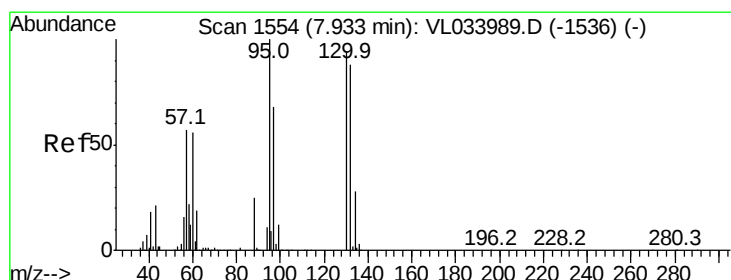
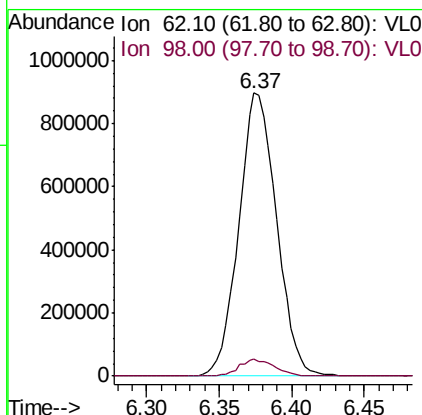
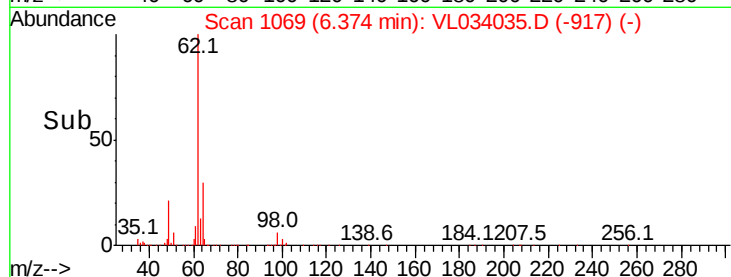
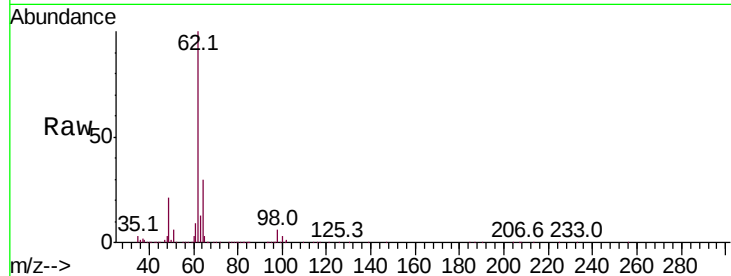
#37
 1,2-Dichloroethane
 Concen: 8.786 ppbv
 RT: 6.37 min Scan# 1069
 Delta R.T. -0.01 min
 Lab File: VL034035.D
 Acq: 17 Jul 2019 15:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1622466
 Ion Ratio Lower Upper
 62 100
 98 5.8 4.4 6.6

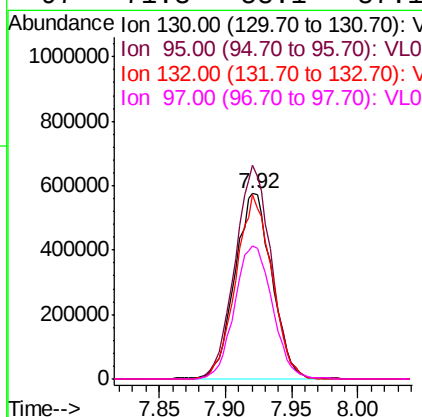
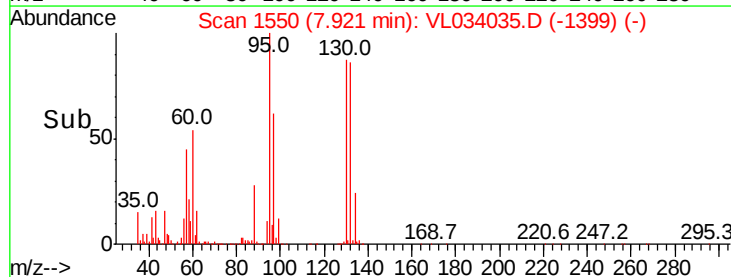
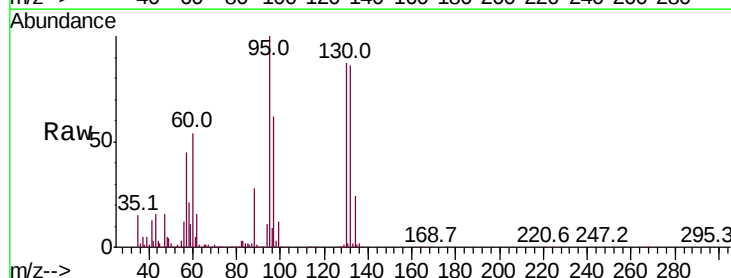
Manual Integrations
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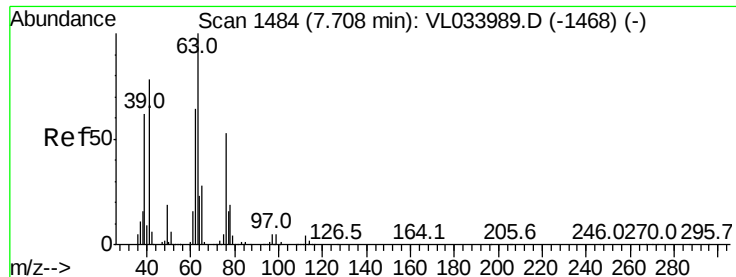
MMDadoda
 7/19/2019 1:37:10 AM



#38
 Trichloroethene
 Concen: 10.037 ppbv
 RT: 7.92 min Scan# 1550
 Delta R.T. -0.01 min
 Lab File: VL034035.D
 Acq: 17 Jul 2019 15:13

Tgt Ion: 130 Resp: 1119487
 Ion Ratio Lower Upper
 130 100
 95 115.0 85.5 128.3
 132 99.4 75.1 112.7
 97 71.3 58.1 87.1





#39

1,2-Dichloropropane

Concen: 10.252 ppbv

RT: 7.70 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VL034035.D

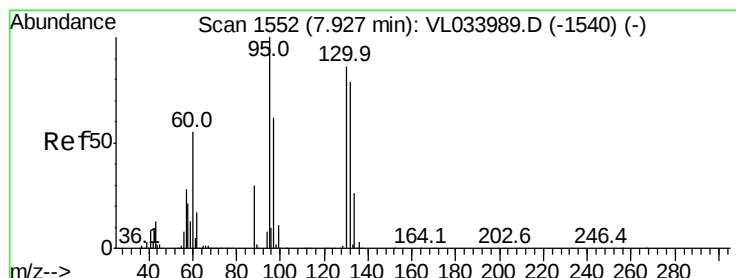
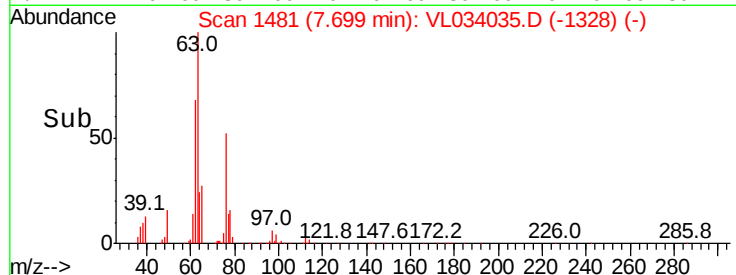
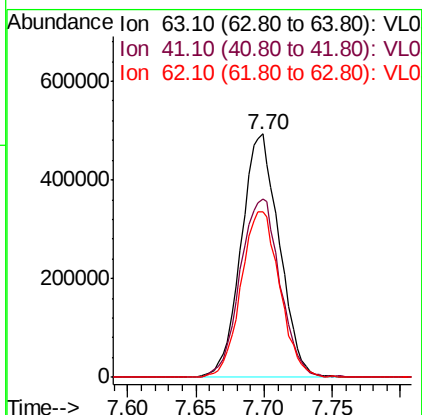
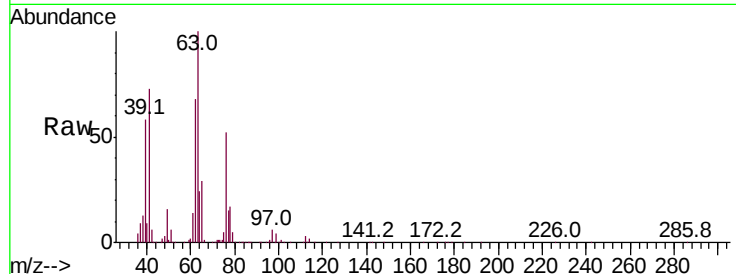
Acq: 17 Jul 2019 15:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	73.1	62.3	93.5
62	68.1	51.4	77.2

Manual Integrations
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MMDadoda
7/19/2019 1:37:10 AM



#40

1,4-Dioxane

Concen: 10.326 ppbv m

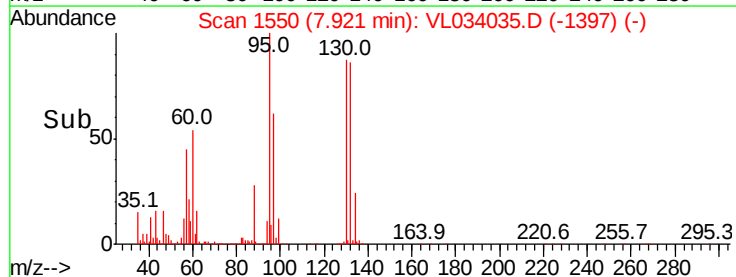
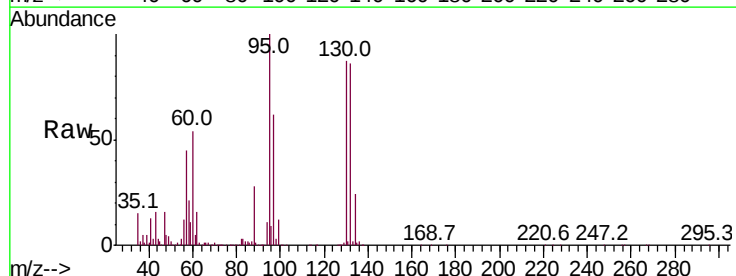
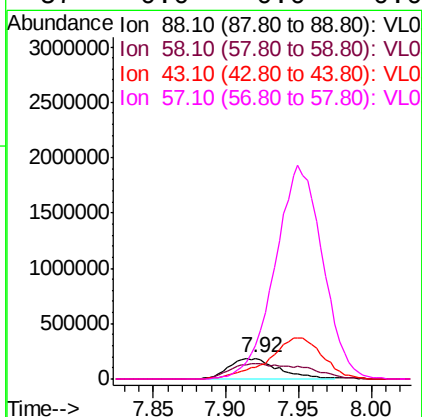
RT: 7.92 min Scan# 1550

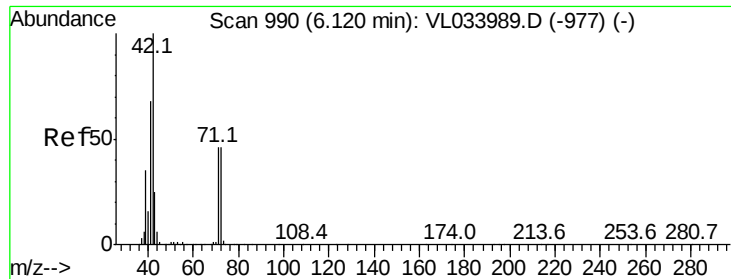
Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

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





#41

Tetrahydrofuran

Concen: 11.200 ppbv

RT: 6.11 min Scan# 988

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

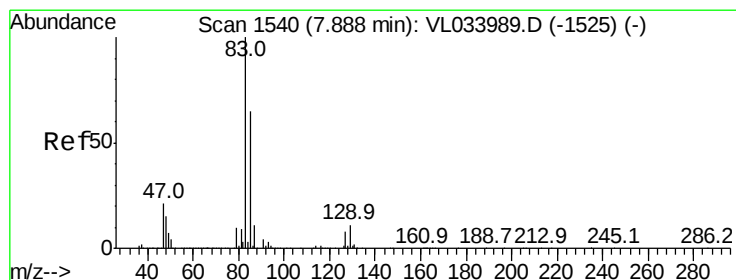
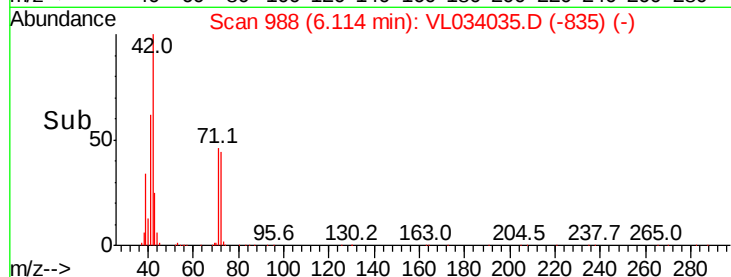
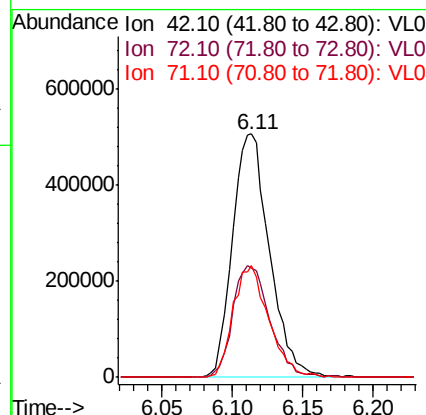
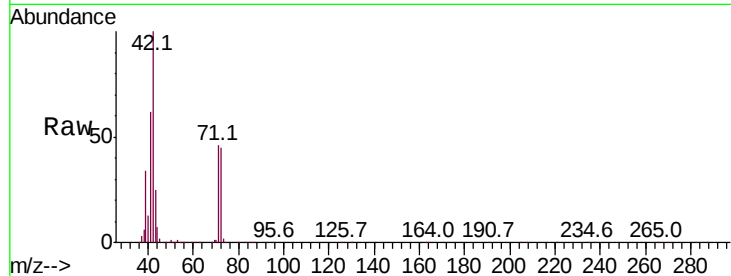
ClientSampleId :

VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.3	37.3	55.9
71	44.5	36.2	54.2

Manual Integrations
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MMDadoda
7/19/2019 1:37:10 AM



#42

Bromodichloromethane

Concen: 9.418 ppbv

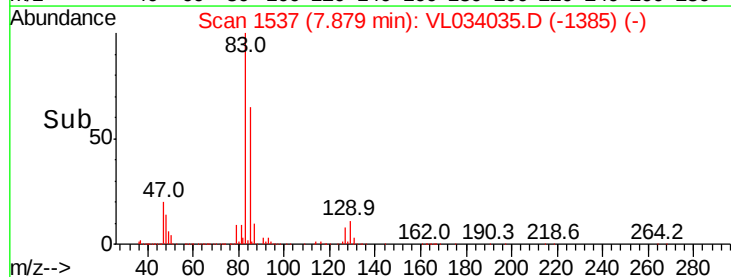
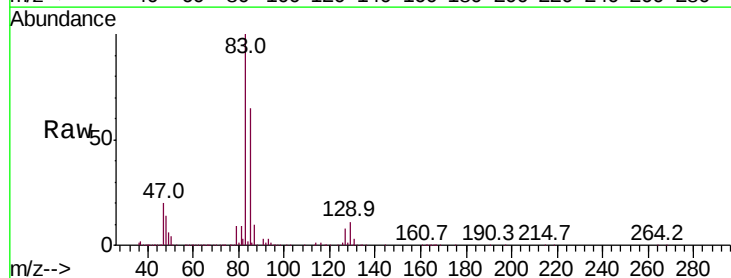
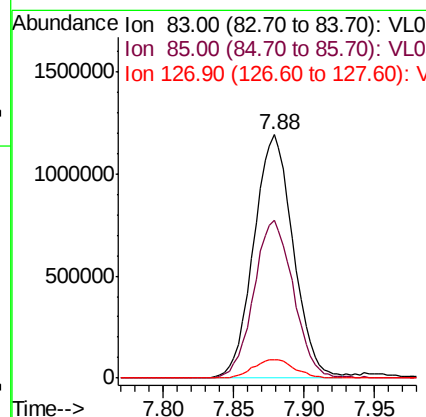
RT: 7.88 min Scan# 1537

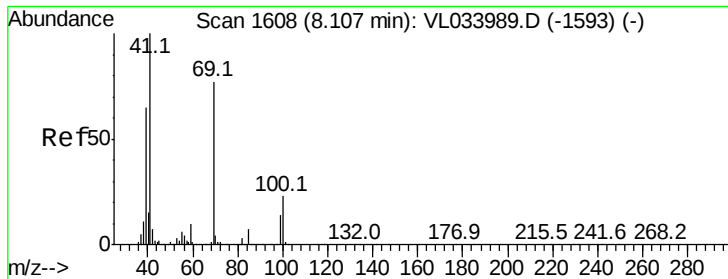
Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.8	77.8
127	7.8	6.5	9.7





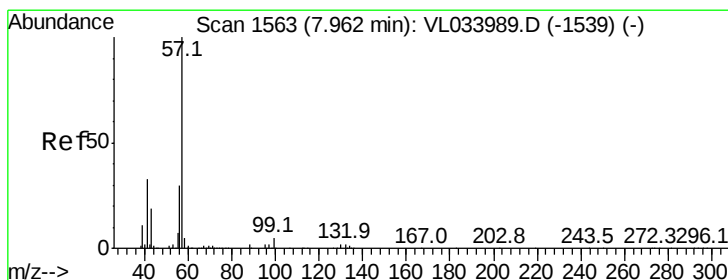
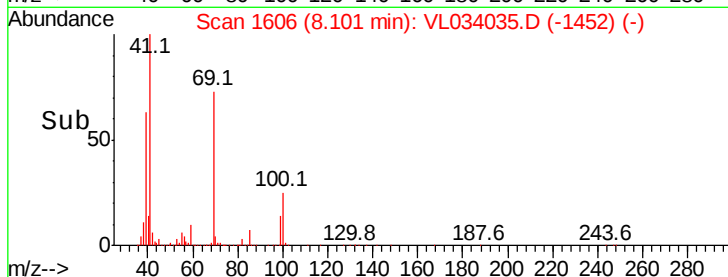
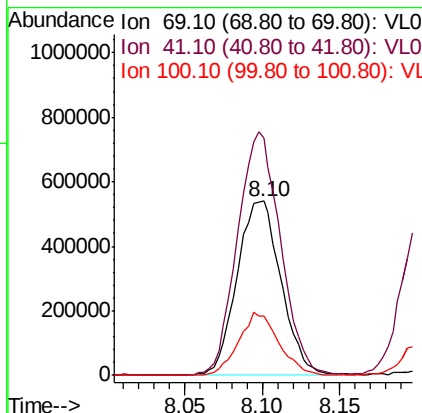
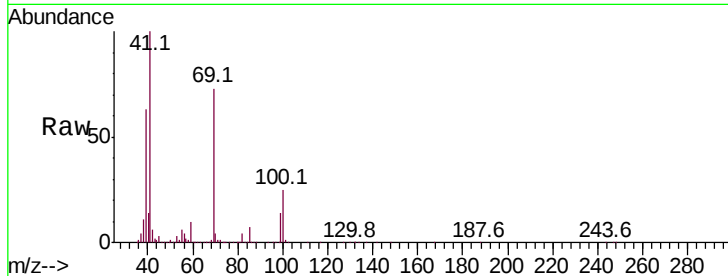
#43
Methvl Methacrvlate
Concen: 11.207 ppbv
RT: 8.10 min Scan# 1606
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1065895
Ion Ratio Lower Upper
69 100
41 136.7 109.1 163.7
100 33.1 25.3 37.9

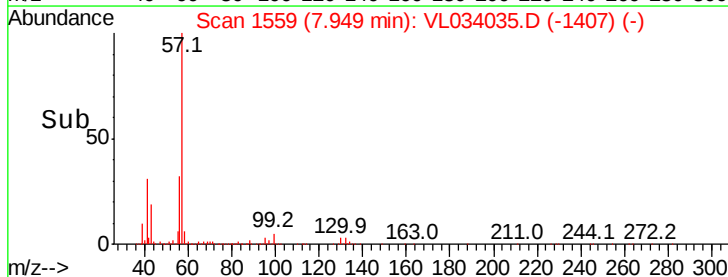
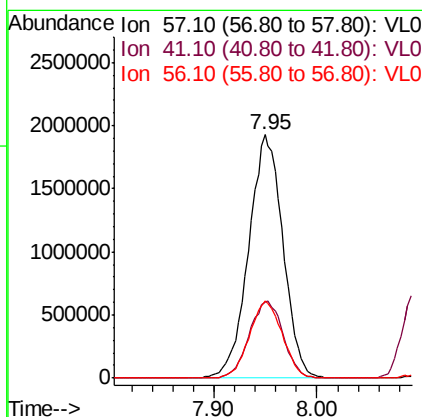
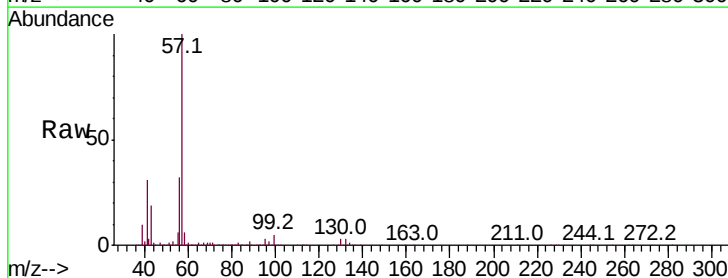
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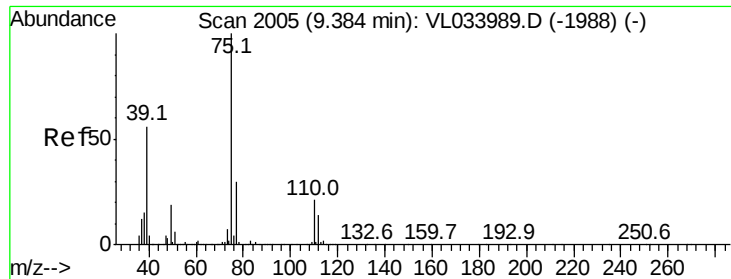
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#44
2,2,4-Trimethylpentane
Concen: 10.239 ppbv
RT: 7.95 min Scan# 1559
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Tgt Ion: 57 Resp: 4430253
Ion Ratio Lower Upper
57 100
41 31.5 26.1 39.1
56 30.5 24.4 36.6





#45

t-1,3-Dichloropropene

Concen: 11.686 ppbv

RT: 9.37 min Scan# 2002

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

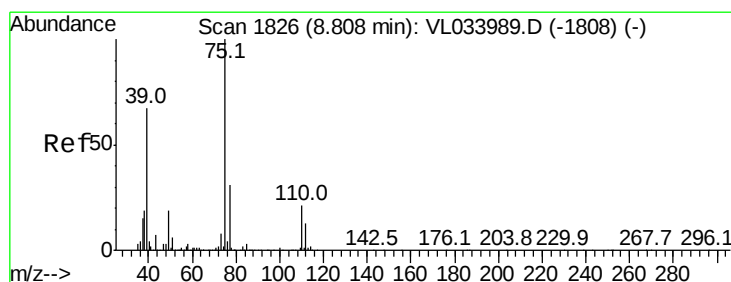
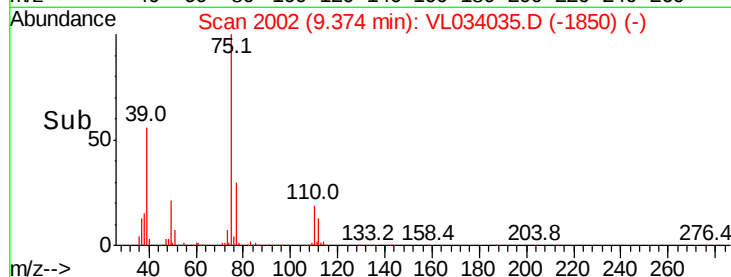
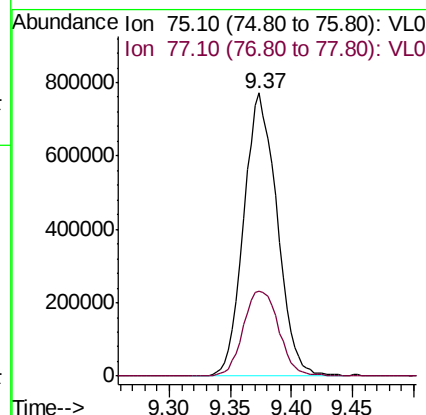
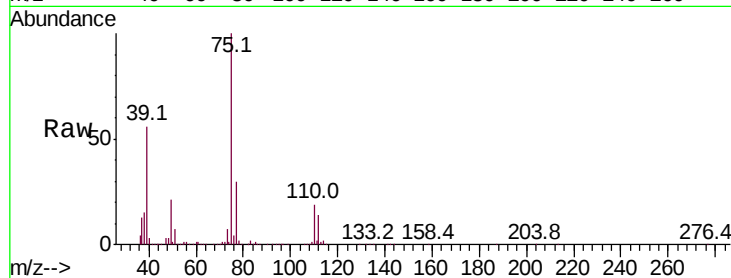
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1453359

Ion	Ratio	Lower	Upper
75	100		
77	30.2	24.3	36.5

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#46

cis-1,3-Dichloropropene

Concen: 11.371 ppbv

RT: 8.80 min Scan# 1822

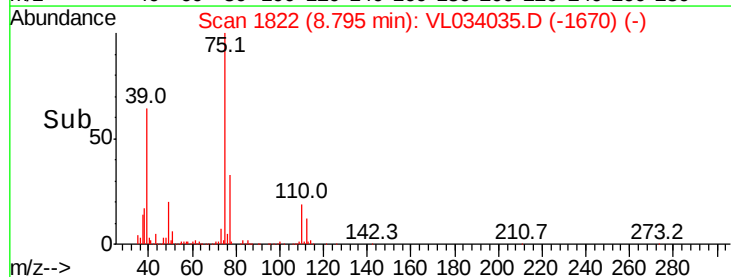
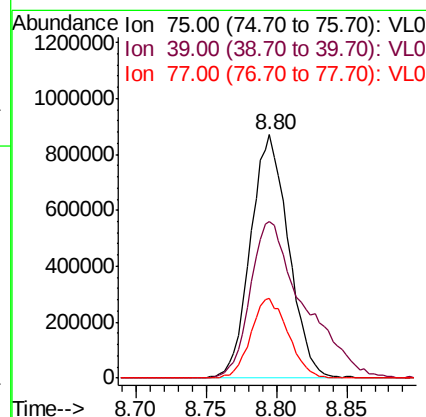
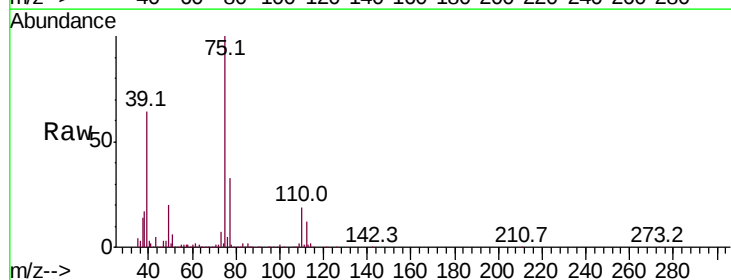
Delta R.T. -0.01 min

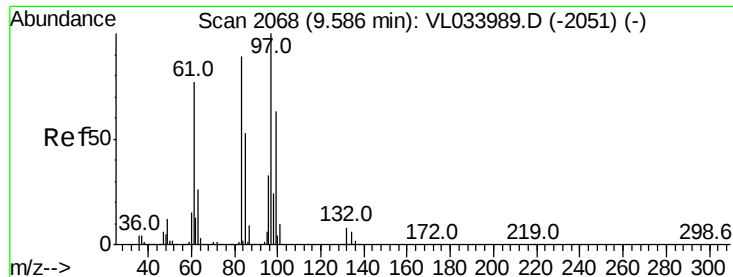
Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Tgt Ion: 75 Resp: 1637758

Ion	Ratio	Lower	Upper
75	100		
39	64.2	53.8	80.6
77	33.0	24.5	36.7





#47

1,1,2-Trichloroethane

Concen: 9.443 ppbv

RT: 9.57 min Scan# 2063

Delta R.T. -0.02 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 97 Resp: 1106670

Ion Ratio Lower Upper

97 100

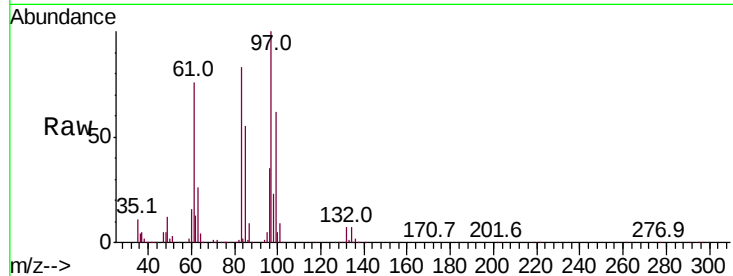
83 83.1 71.1 106.7

85 54.6 42.6 64.0

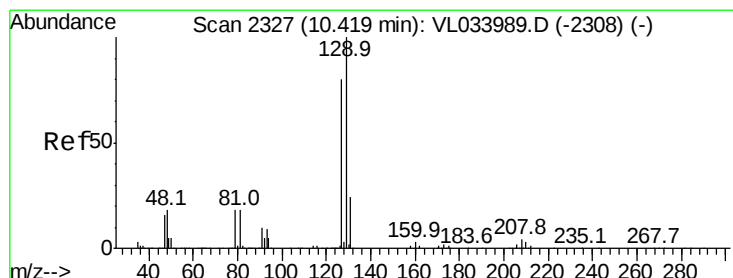
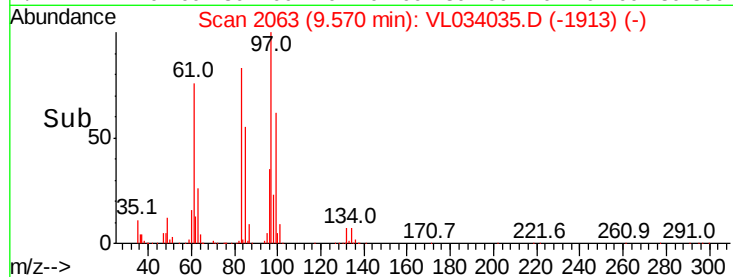
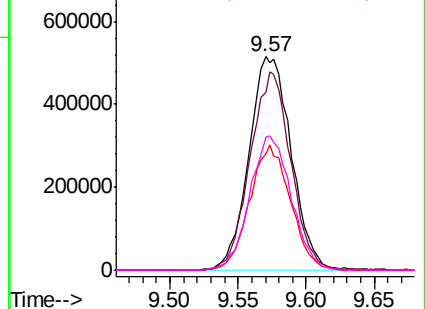
99 62.1 50.3 75.5

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Abundance Ion 97.00 (96.70 to 97.70): VL0
800000
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: 8.756 ppbv

RT: 10.41 min Scan# 2325

Delta R.T. -0.01 min

Lab File: VL034035.D

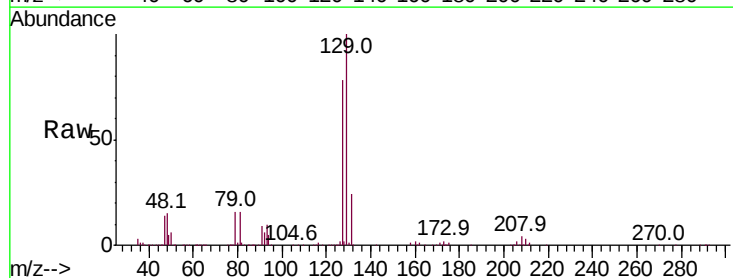
Acq: 17 Jul 2019 15:13

Tgt Ion: 129 Resp: 1957947

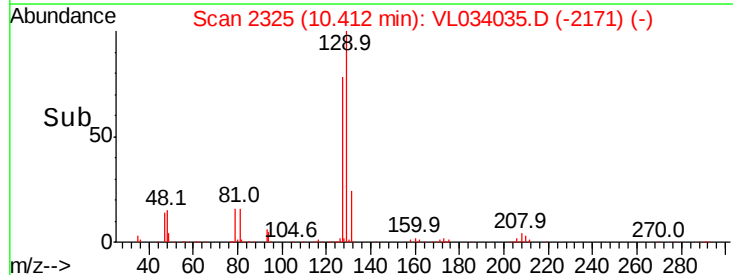
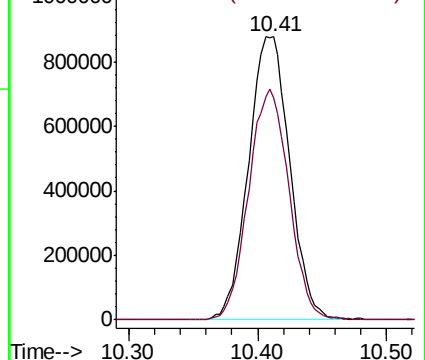
Ion Ratio Lower Upper

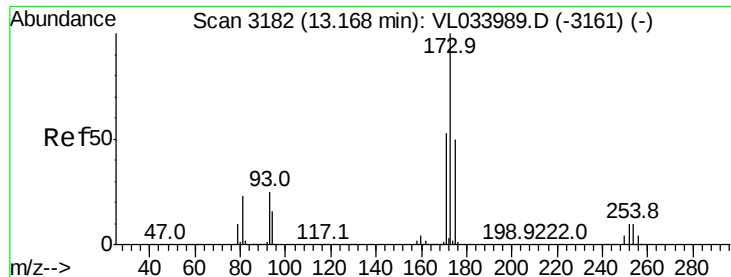
129 100

127 80.0 39.1 117.3



Abundance Ion 129.00 (128.70 to 129.70): V
1000000
Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.134 ppbv

RT: 13.16 min Scan# 3178

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1744995

Ion Ratio Lower Upper

173 100

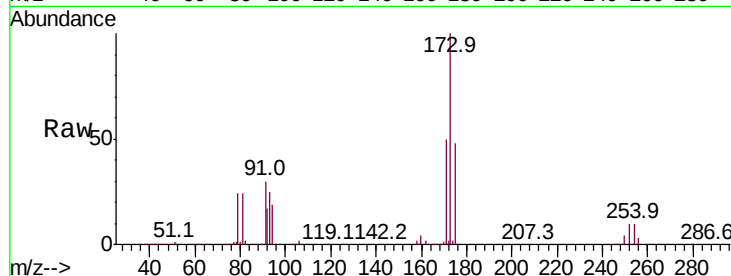
175 50.1 39.3 58.9

171 52.5 41.4 62.0

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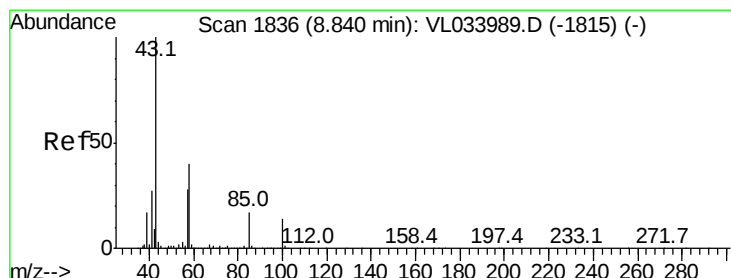
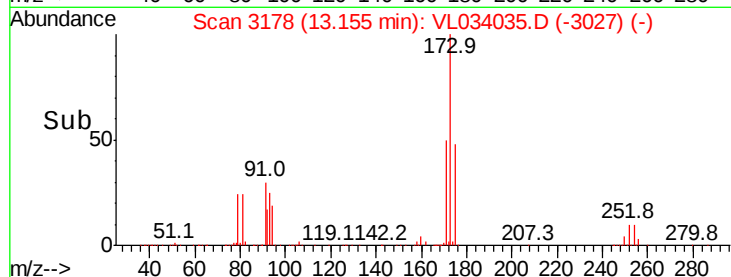
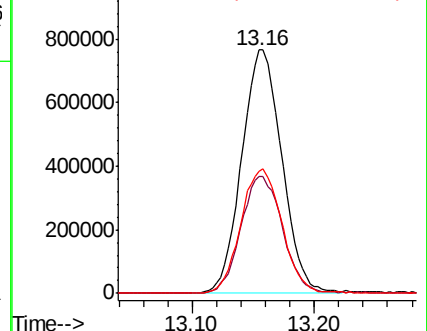
7/19/2019 1:37:10 AM



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: 10.329 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.01 min

Lab File: VL034035.D

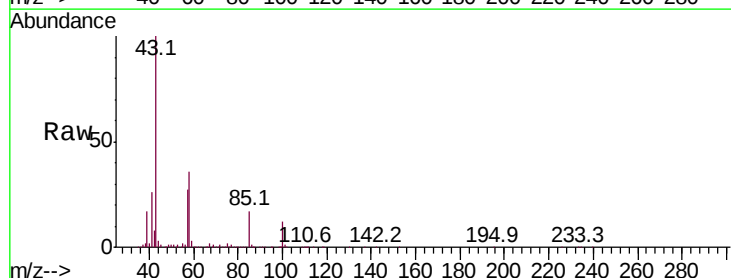
Acq: 17 Jul 2019 15:13

Tgt Ion: 43 Resp: 2598593

Ion Ratio Lower Upper

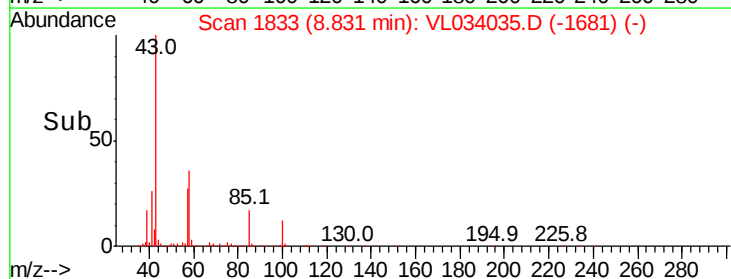
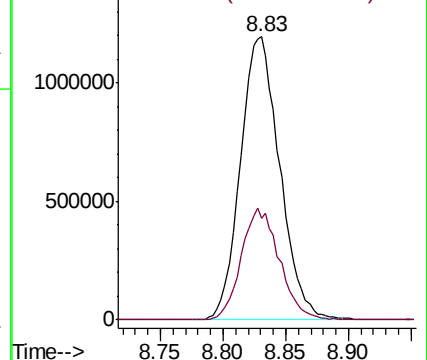
43 100

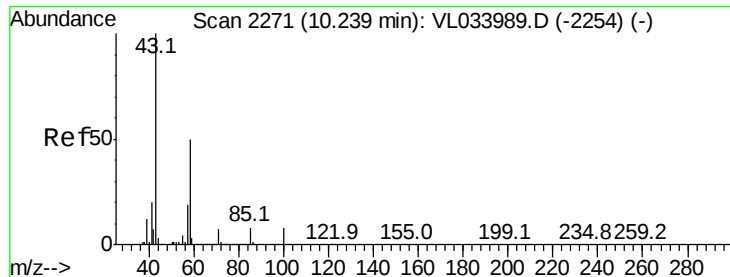
58 38.4 30.3 45.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





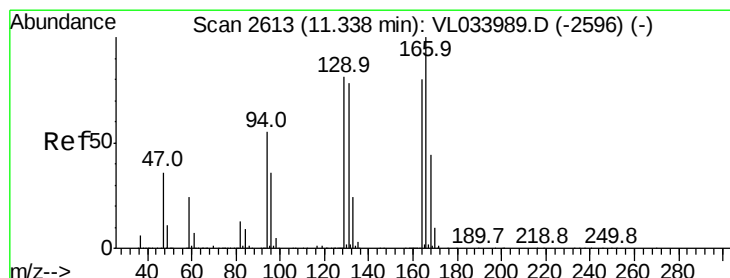
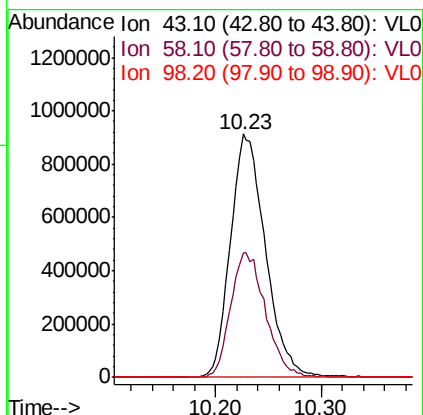
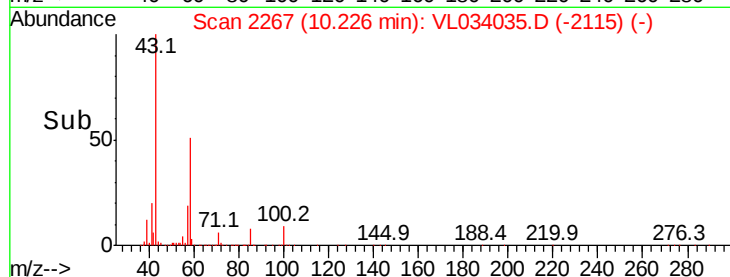
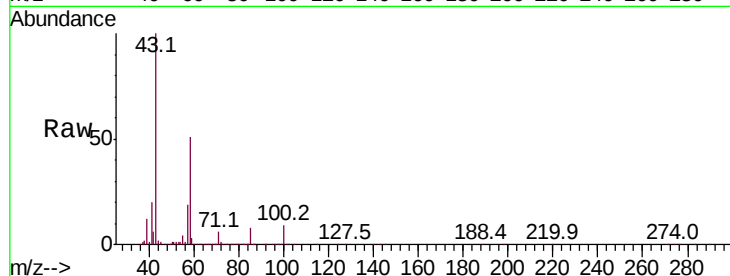
#51
2-Hexanone
Concen: 10.351 ppbv
RT: 10.23 min Scan# 2267
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.3	41.0	61.4
98	0.1	0.2	0.2#

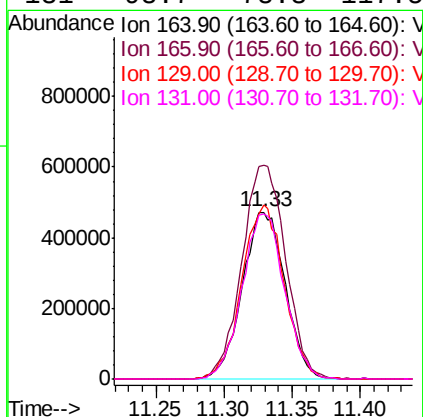
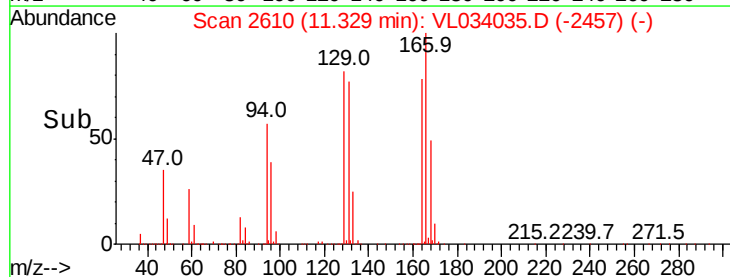
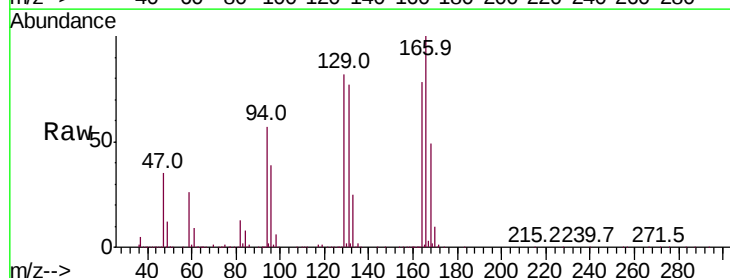
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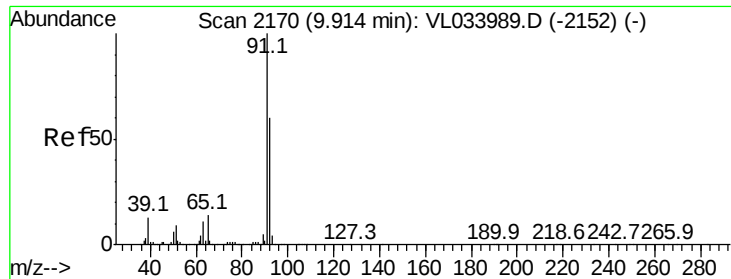
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#52
Tetrachloroethene
Concen: 9.555 ppbv
RT: 11.33 min Scan# 2610
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.9	100.2	150.2
129	104.4	81.0	121.6
131	98.7	78.3	117.5





#53

Toluene

Concen: 10.886 ppbv

RT: 9.90 min Scan# 2167

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3123514

Ion Ratio Lower Upper

91 100

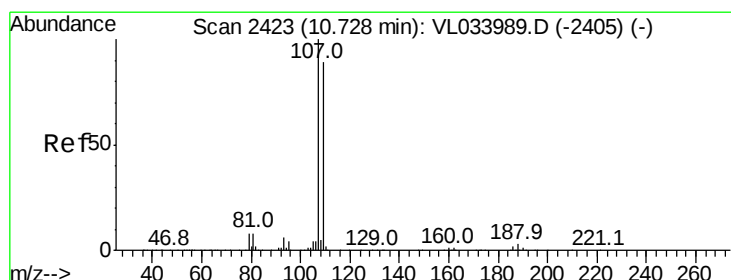
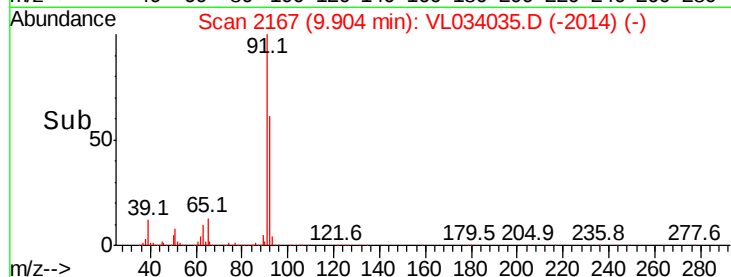
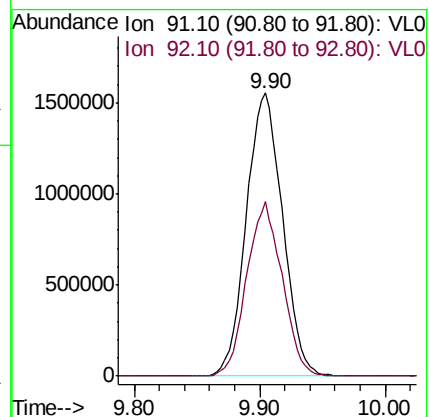
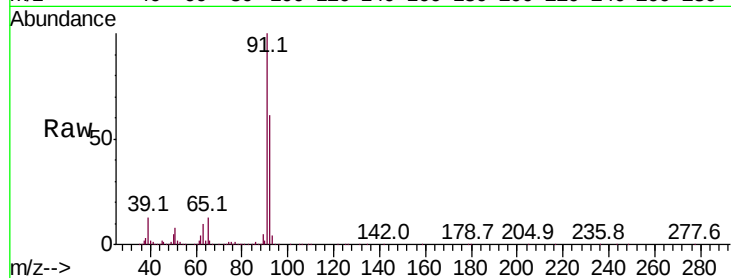
92 60.1 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 9.816 ppbv

RT: 10.71 min Scan# 2419

Delta R.T. -0.01 min

Lab File: VL034035.D

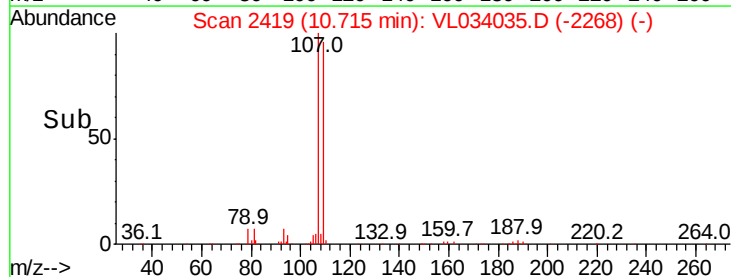
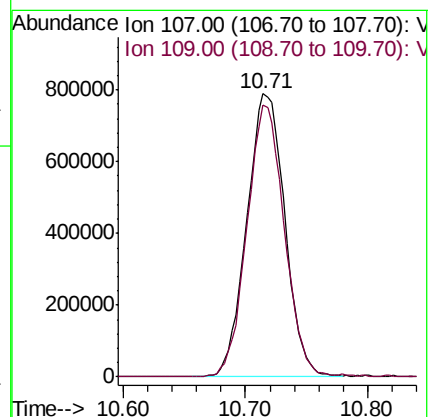
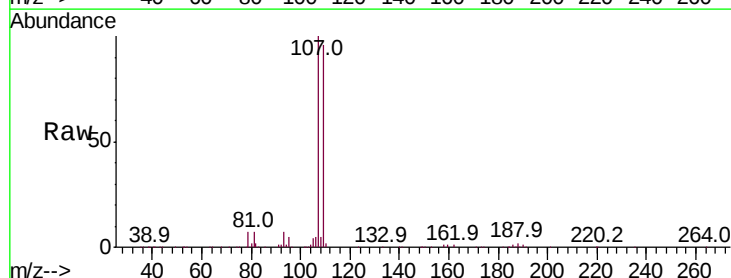
Acq: 17 Jul 2019 15:13

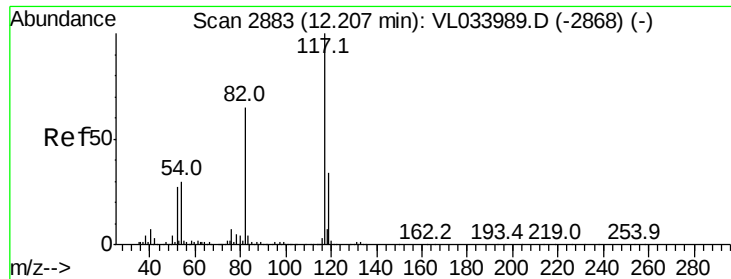
Tgt Ion: 107 Resp: 1697693

Ion Ratio Lower Upper

107 100

109 96.0 71.5 107.3





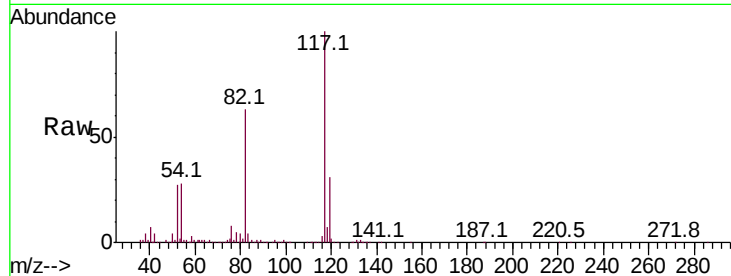
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.20 min Scan# 2880
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

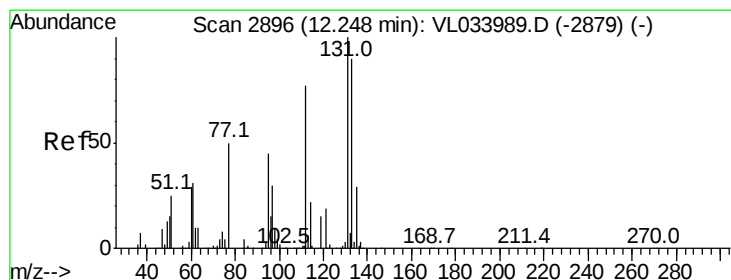
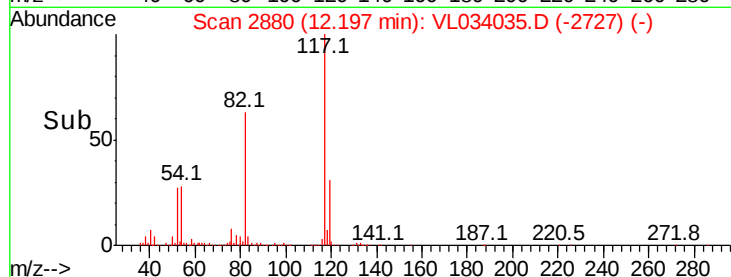
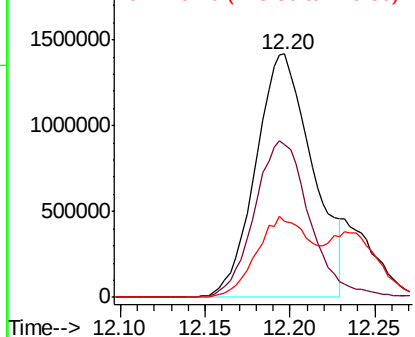
Tot Ion:117 Resp: 3310756
Ion Ratio Lower Upper
117 100
82 63.3 50.8 76.2
119 30.3 24.0 36.0

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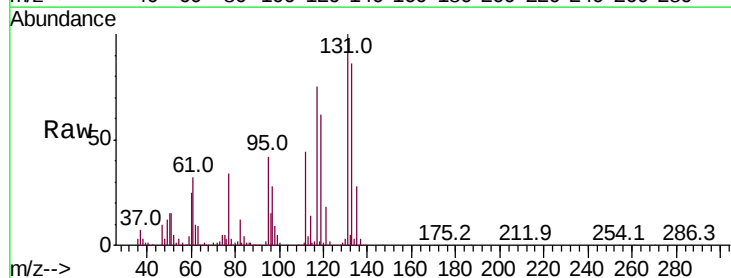


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VLO
Ion 119.10 (118.80 to 119.80): V

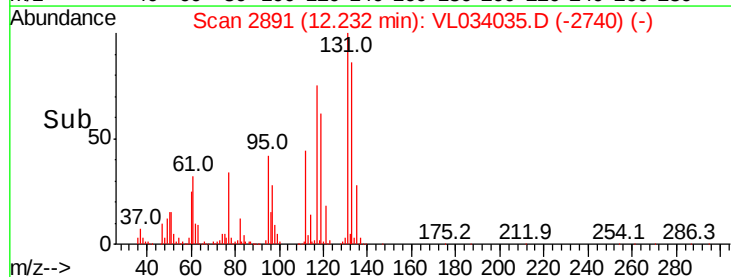
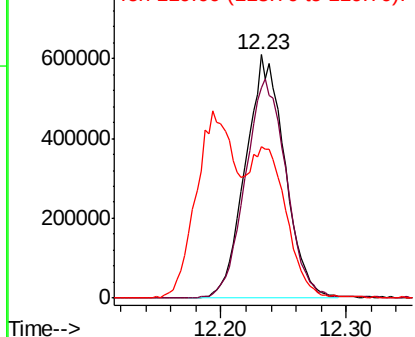


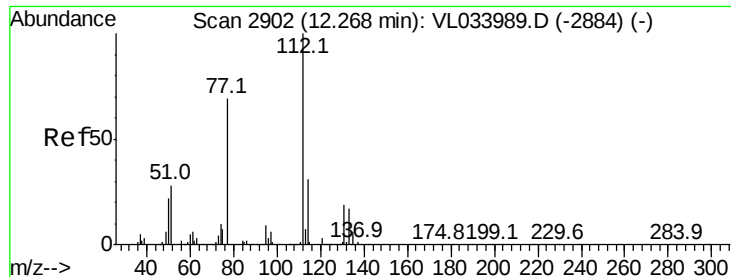
#56
1,1,1,2-Tetrachloroethane
Concen: 8.959 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.02 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Tgt Ion:131 Resp: 1325715
Ion Ratio Lower Upper
131 100
133 93.9 76.2 114.2
119 52.4 43.1 64.7



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: 8.896 ppbv

RT: 12.26 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 112 Resp: 2344974

Ion Ratio Lower Upper

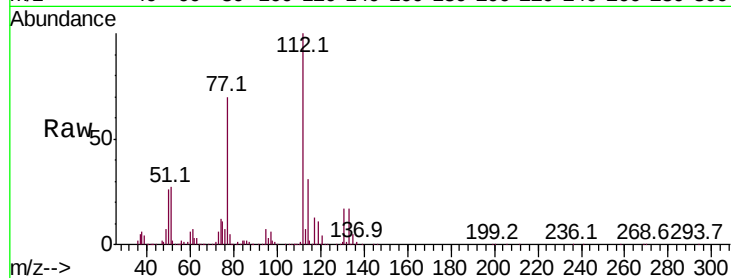
112 100

77 69.3 55.9 83.9

114 30.8 27.6 33.8

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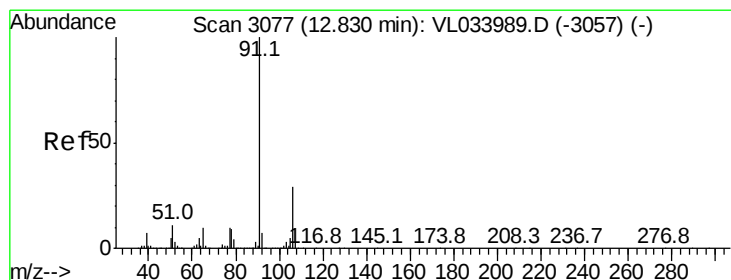
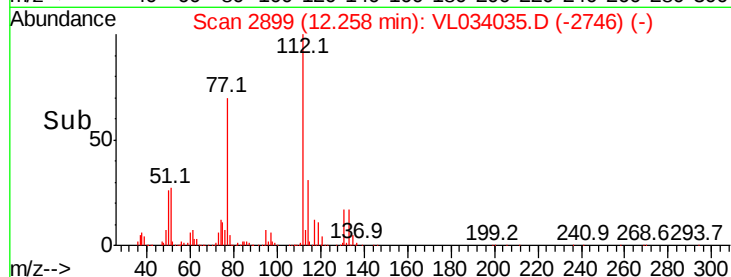
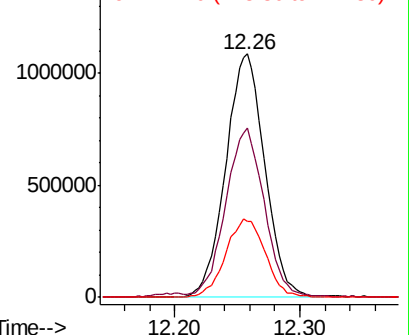
MMDadoda
7/19/2019 1:37:10 AM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.512 ppbv

RT: 12.82 min Scan# 3074

Delta R.T. -0.01 min

Lab File: VL034035.D

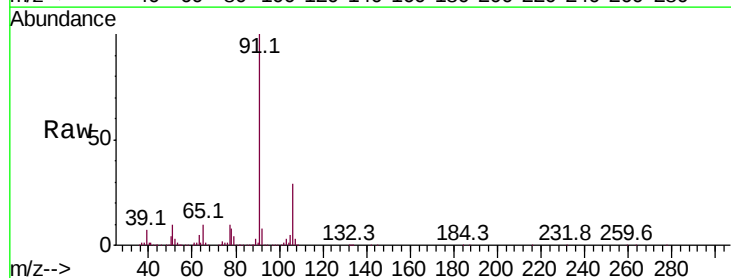
Acq: 17 Jul 2019 15:13

Tgt Ion: 91 Resp: 4184955

Ion Ratio Lower Upper

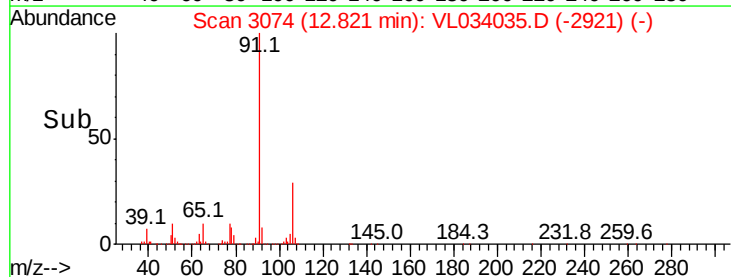
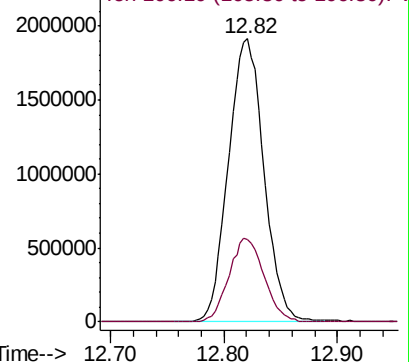
91 100

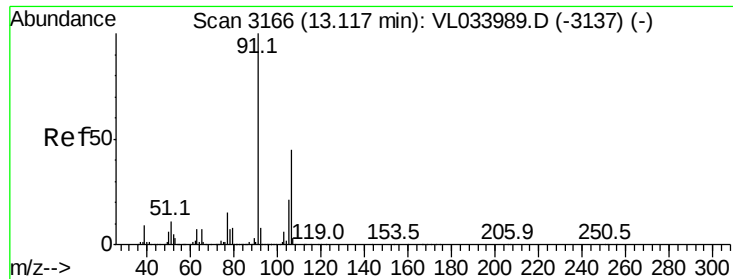
106 29.1 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 19.089 ppbv m

RT: 13.11 min Scan# 3163

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 6881534

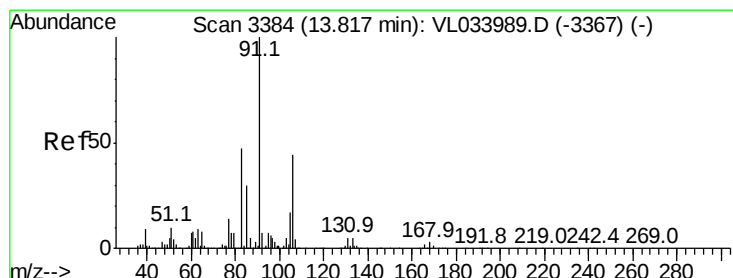
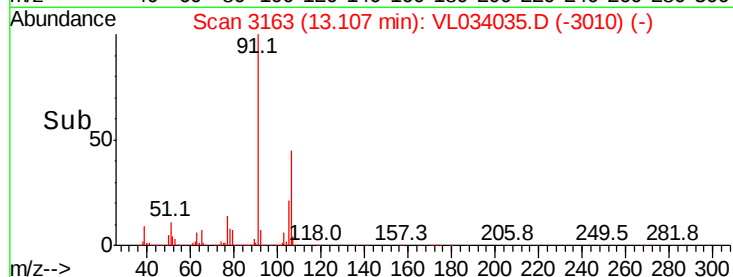
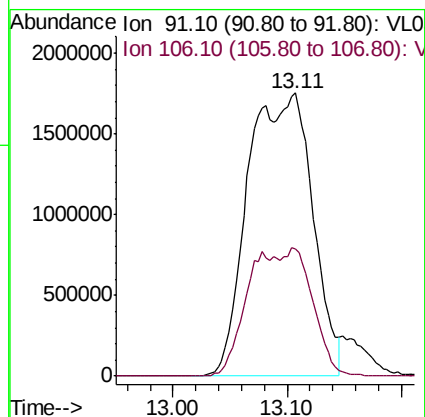
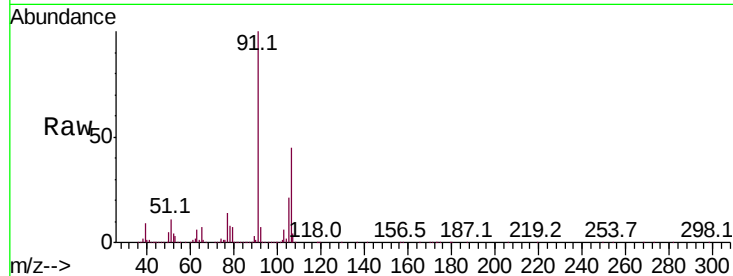
Ion Ratio Lower Upper

91 100

106 44.8 35.7 53.5

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#60

o-Xylene

Concen: 9.391 ppbv

RT: 13.80 min Scan# 3380

Delta R.T. -0.01 min

Lab File: VL034035.D

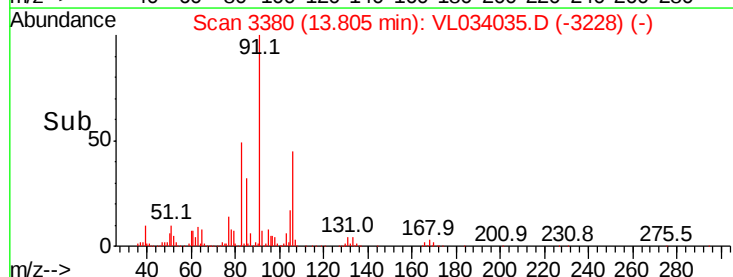
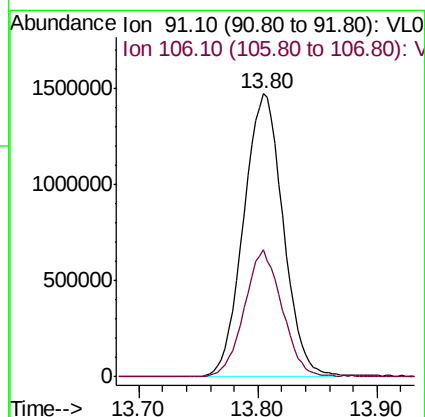
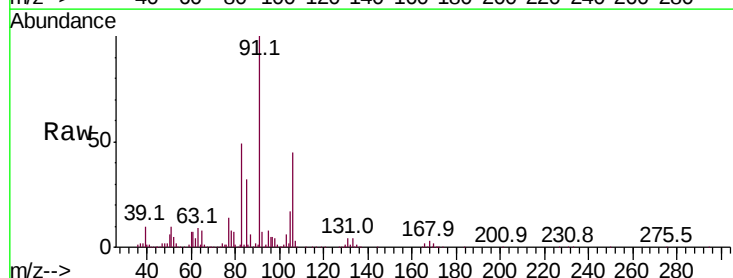
Acq: 17 Jul 2019 15:13

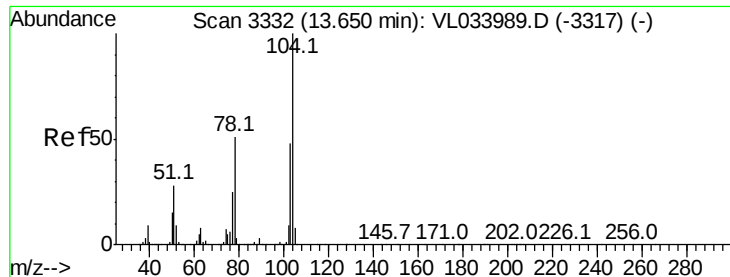
Tgt Ion: 91 Resp: 3386827

Ion Ratio Lower Upper

91 100

106 42.8 21.9 65.7





#61

Stvrene

Concen: 10.716 ppbv

RT: 13.64 min Scan# 3330

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 2557509

Ion Ratio Lower Upper

104 100

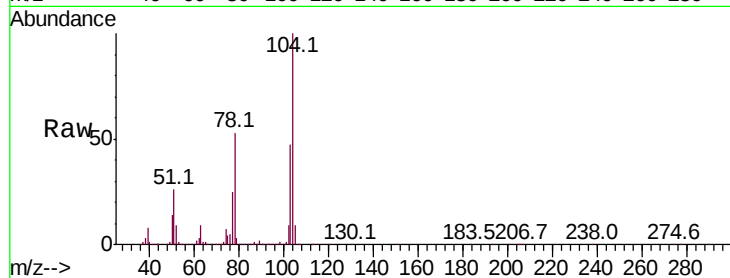
78 53.5 43.9 65.9

103 47.9 38.1 57.1

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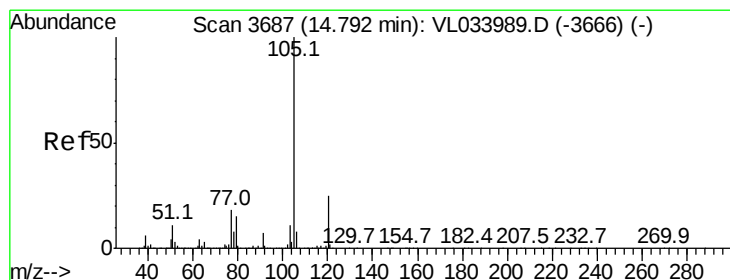
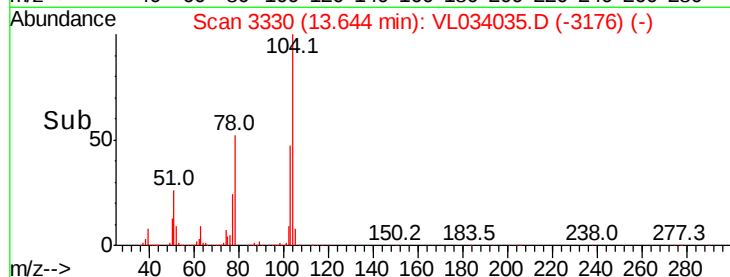
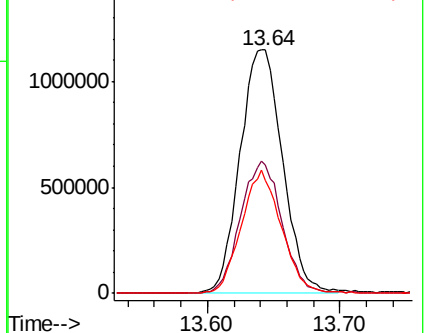
7/19/2019 1:37:10 AM



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: 8.010 ppbv

RT: 14.78 min Scan# 3684

Delta R.T. -0.01 min

Lab File: VL034035.D

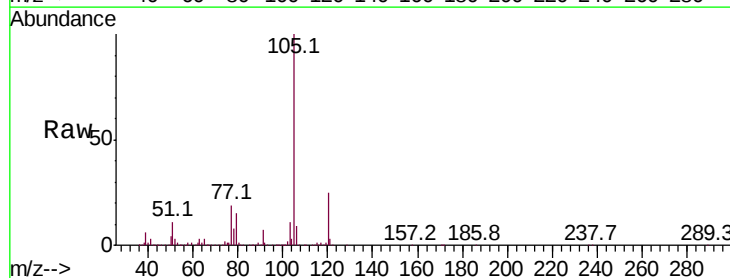
Acq: 17 Jul 2019 15:13

Tgt Ion:105 Resp: 4440665

Ion Ratio Lower Upper

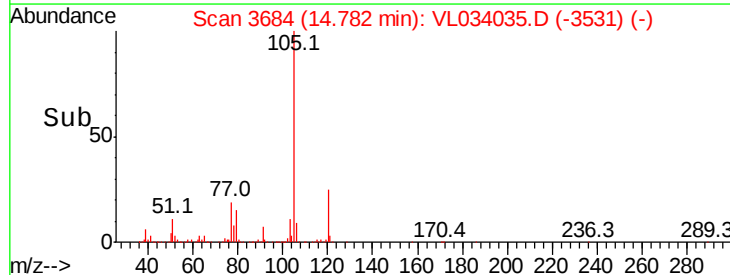
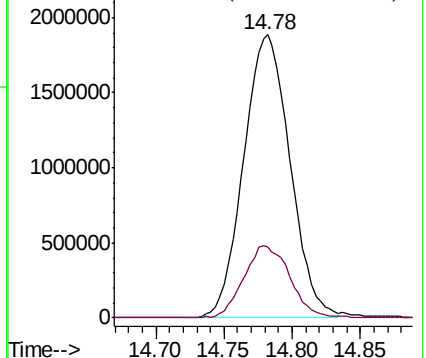
105 100

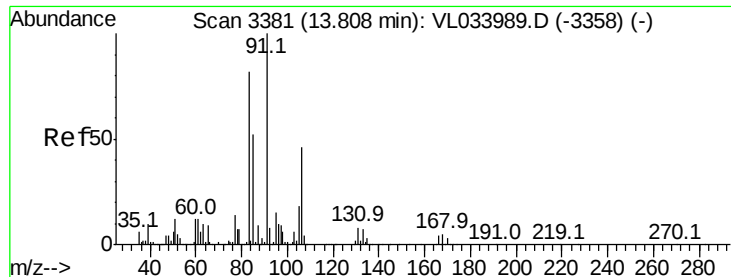
120 25.8 20.4 30.6



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: 8.177 ppbv

RT: 13.79 min Scan# 3376

Delta R.T. -0.02 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2282642

Ion Ratio Lower Upper

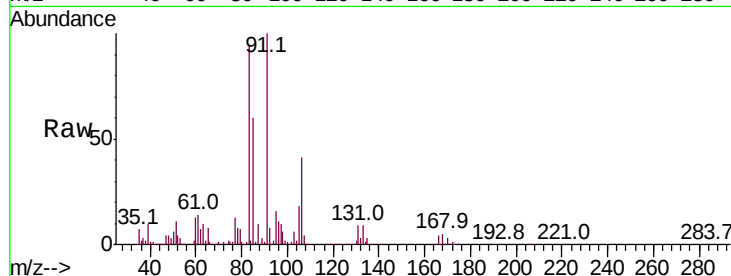
83 100

131 9.6 5.0 14.9

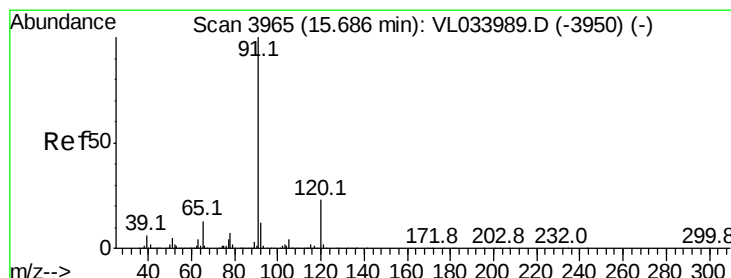
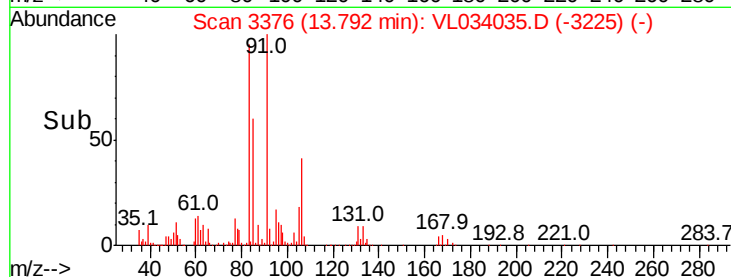
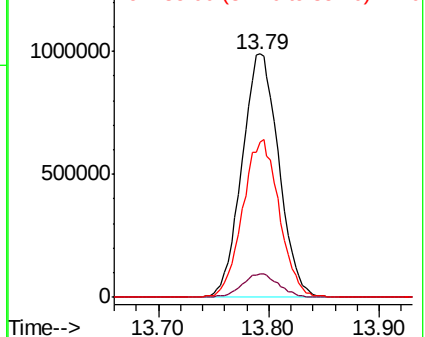
85 64.6 32.8 98.3

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



#64

n-propylbenzene

Concen: 7.980 ppbv

RT: 15.68 min Scan# 3963

Delta R.T. -0.01 min

Lab File: VL034035.D

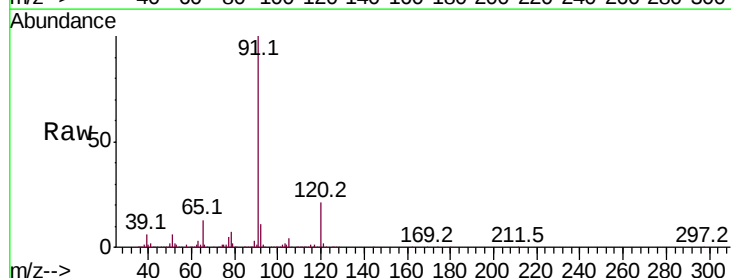
Acq: 17 Jul 2019 15:13

Tgt Ion:120 Resp: 1147224

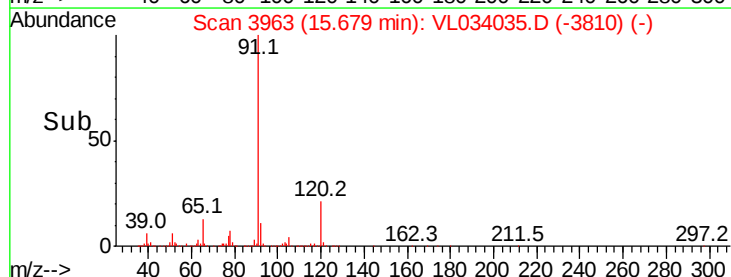
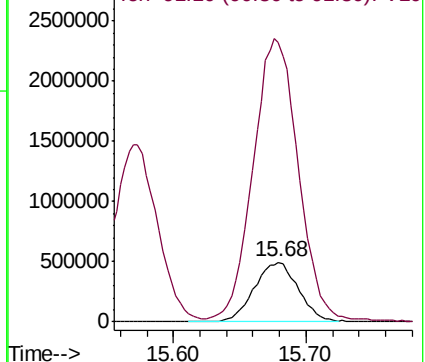
Ion Ratio Lower Upper

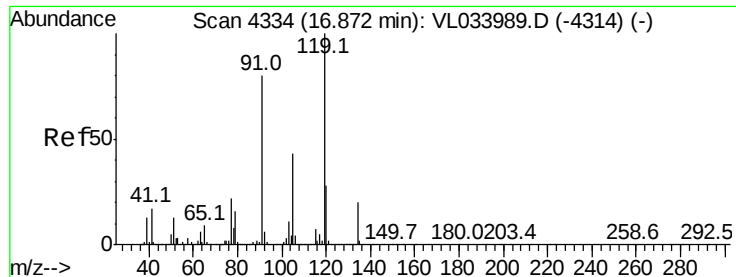
120 100

91 490.8 386.6 579.8



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





#65

tert-Butylbenzene

Concen: 8.463 ppbv

RT: 16.86 min Scan# 4331

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 3989710

Ion Ratio Lower Upper

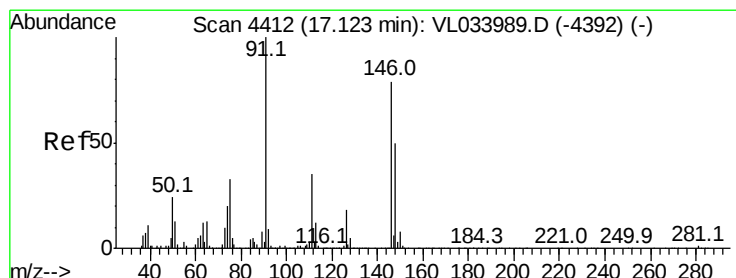
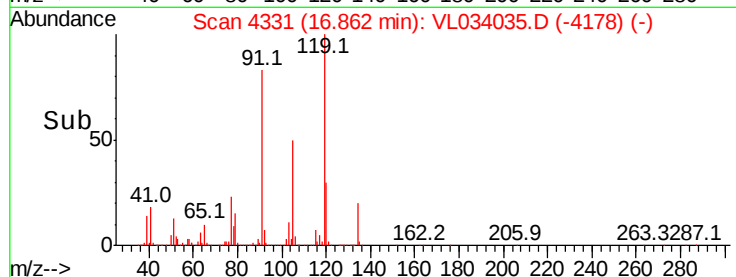
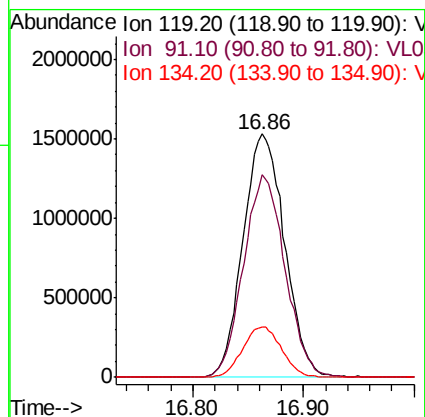
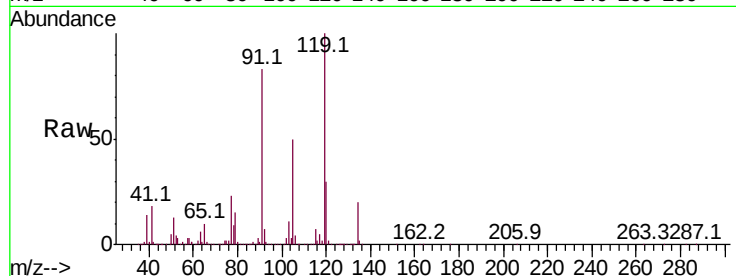
119 100

91 83.3 67.0 100.6

134 19.7 15.8 23.6

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#66

Benzyl Chloride

Concen: 9.174 ppbv

RT: 17.11 min Scan# 4409

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

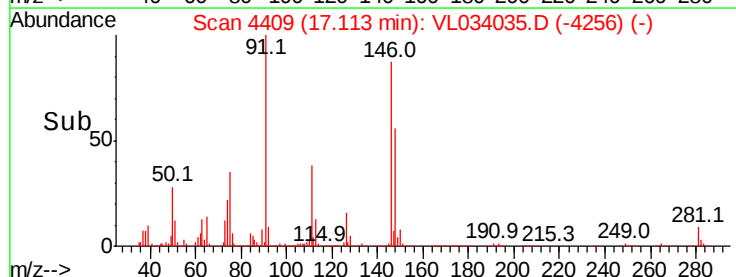
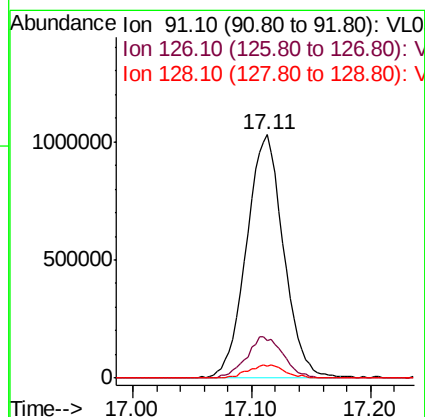
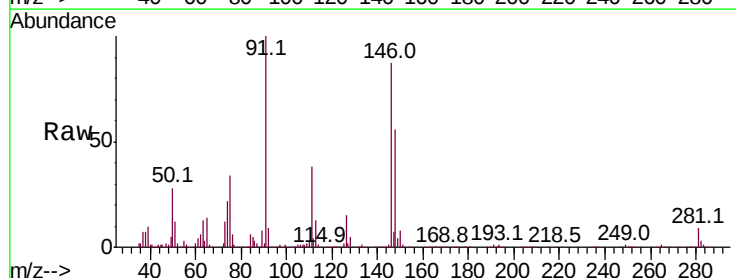
Tgt Ion: 91 Resp: 2212699

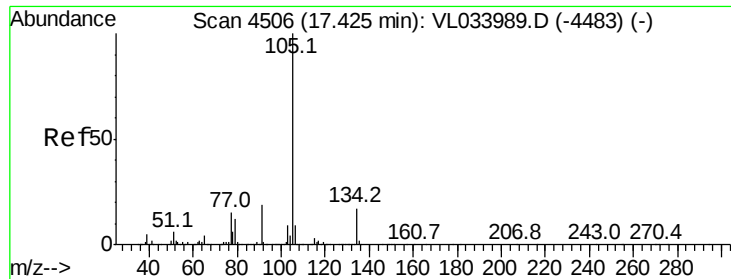
Ion Ratio Lower Upper

91 100

126 17.1 13.9 20.9

128 5.5 4.6 7.0





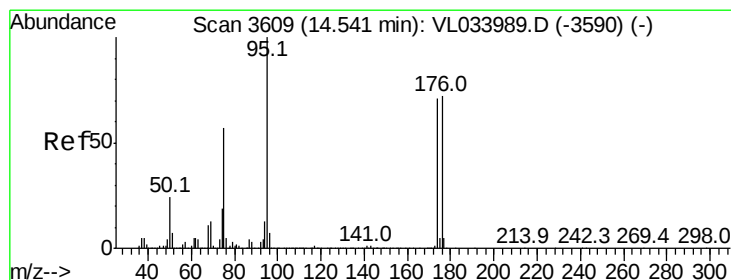
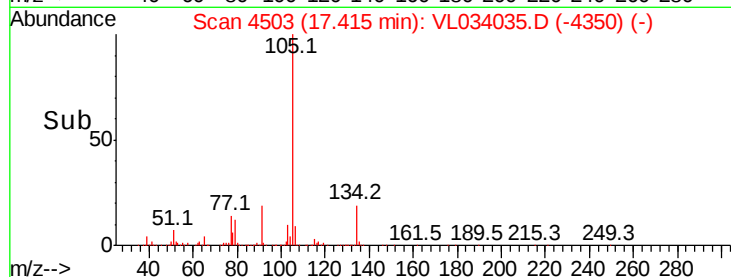
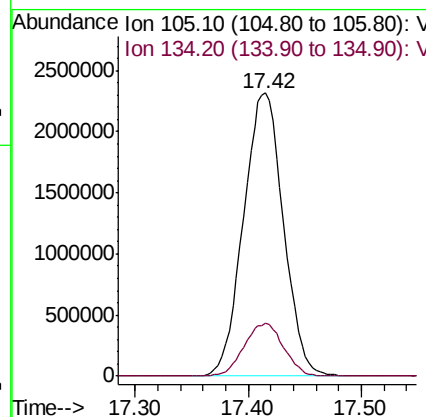
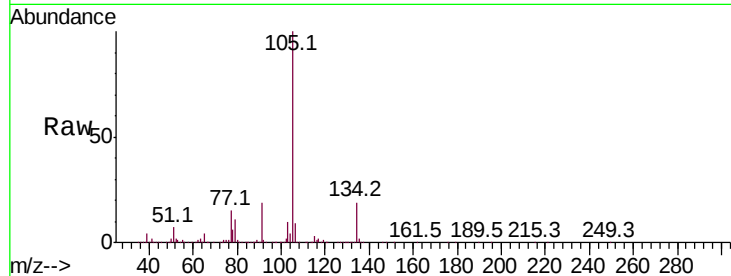
#67
 sec-Butylbenzene
 Concen: 8.566 ppbv
 RT: 17.42 min Scan# 4503
 Delta R.T. -0.01 min
 Lab File: VL034035.D
 Acq: 17 Jul 2019 15:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 5668466
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.7 22.1

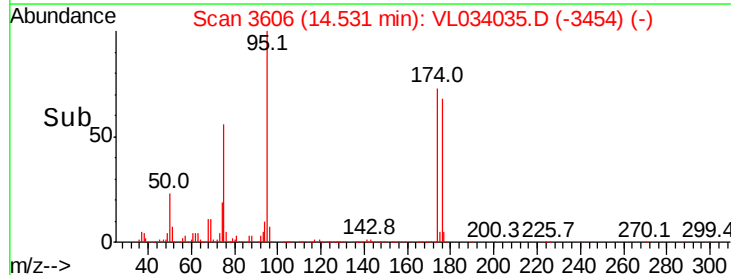
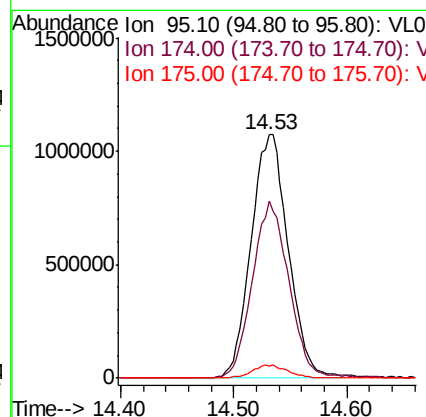
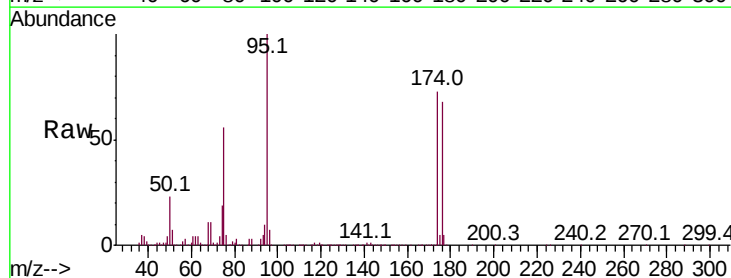
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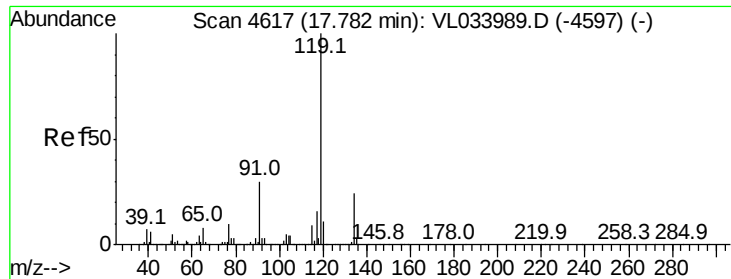
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.683 ppbv
 RT: 14.53 min Scan# 3606
 Delta R.T. -0.01 min
 Lab File: VL034035.D
 Acq: 17 Jul 2019 15:13

Tgt Ion: 95 Resp: 2451968
 Ion Ratio Lower Upper
 95 100
 174 71.9 60.5 90.7
 175 5.2 4.0 6.0





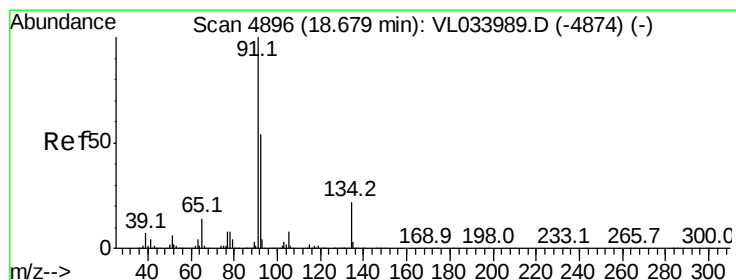
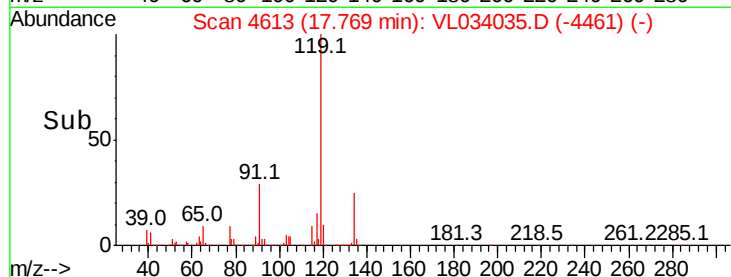
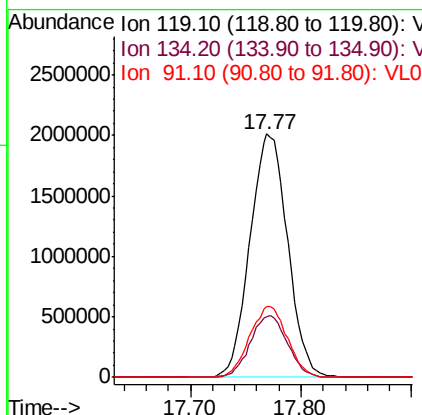
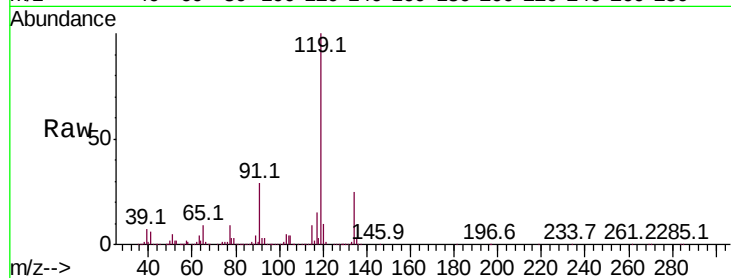
#69
p-Isopropyltoluene
Concen: 8.725 ppbv
RT: 17.77 min Scan# 4613
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.1	30.1
91	29.1	23.6	35.4

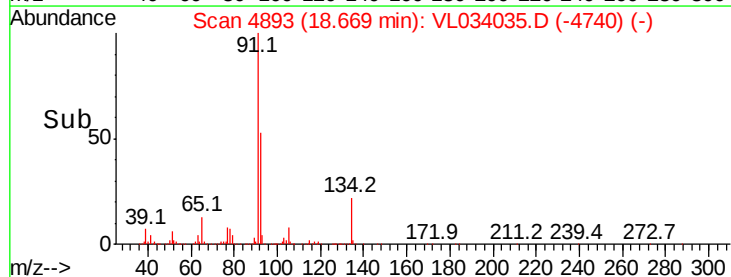
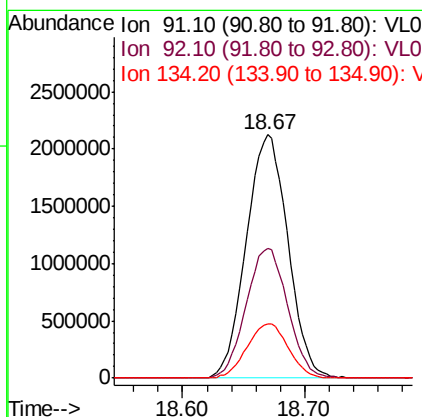
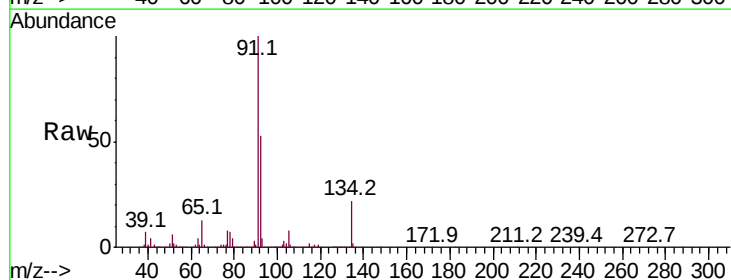
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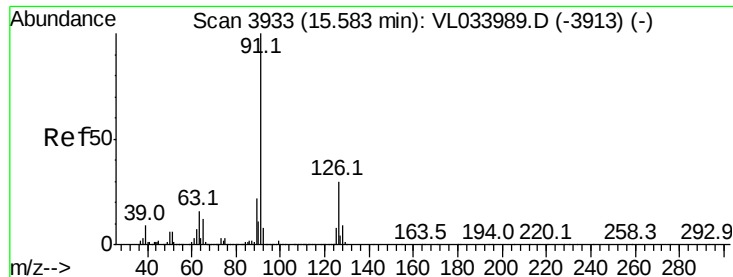
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#70
n-Butylbenzene
Concen: 8.744 ppbv
RT: 18.67 min Scan# 4893
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.3	42.0	63.0
134	22.4	17.9	26.9





#71

2-Chlorotoluene

Concen: 8.336 ppbv

RT: 15.57 min Scan# 3929

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3382172

Ion Ratio Lower Upper

91 100

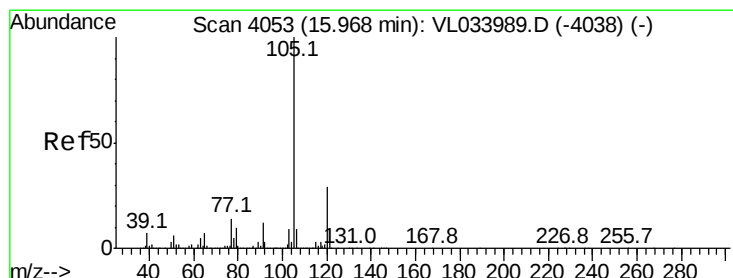
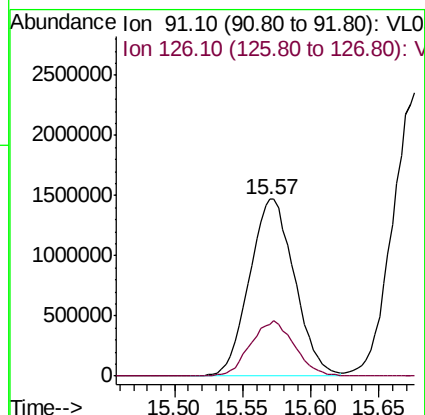
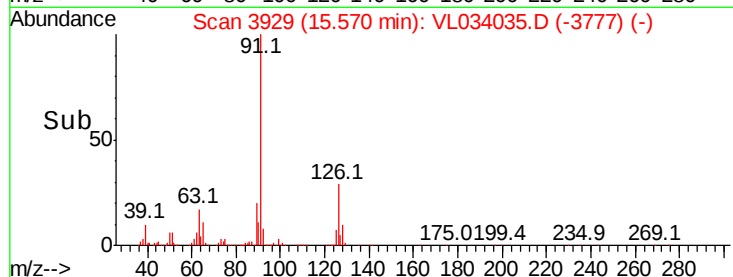
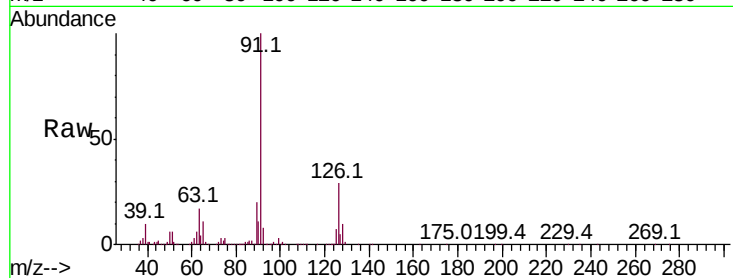
126 30.5 12.3 49.3

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#72

4-Ethyltoluene

Concen: 8.467 ppbv

RT: 15.96 min Scan# 4049

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Tgt Ion: 105 Resp: 3921352

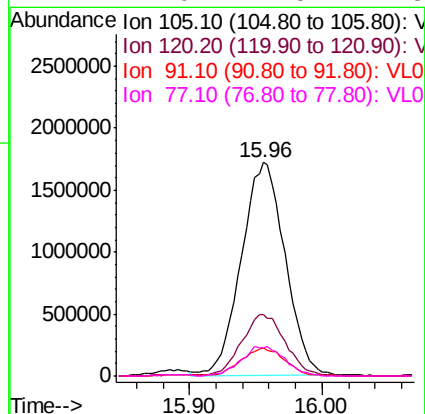
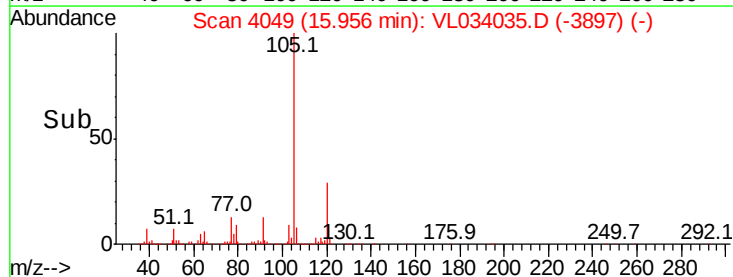
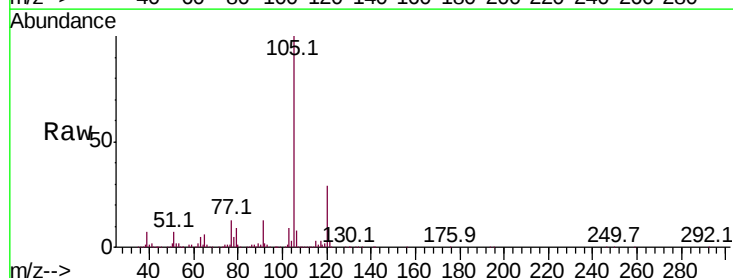
Ion Ratio Lower Upper

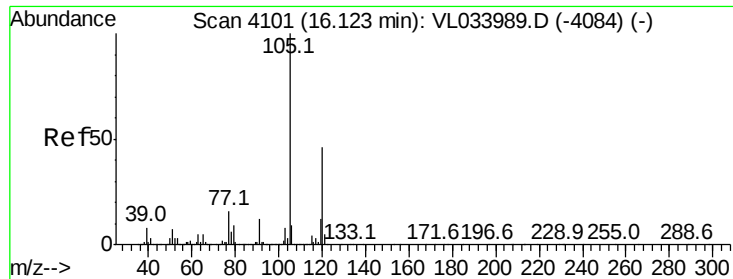
105 100

120 29.3 24.1 36.1

91 13.0 10.6 16.0

77 14.0 11.5 17.3





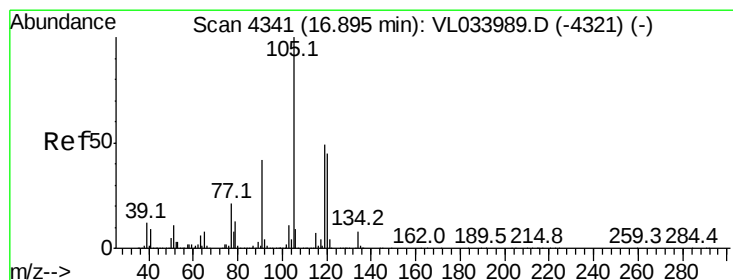
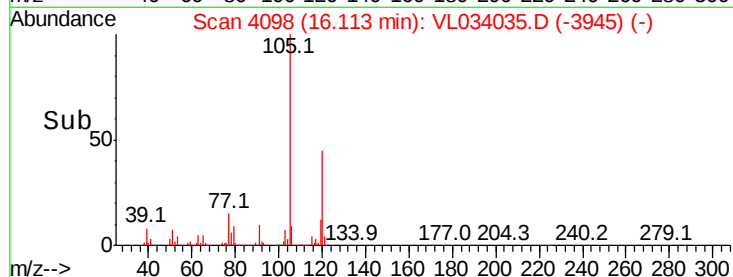
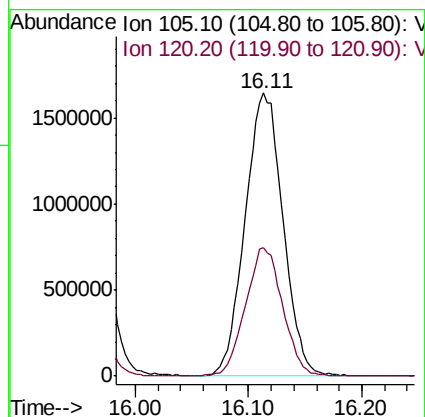
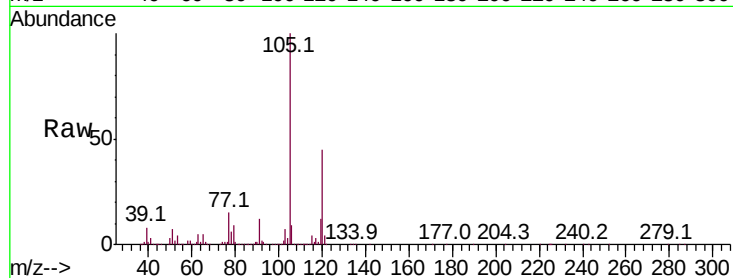
#73
 1,3,5-Trimethylbenzene
 Concen: 8.848 ppbv
 RT: 16.11 min Scan# 4098
 Delta R.T. -0.01 min
 Lab File: VL034035.D
 Acq: 17 Jul 2019 15:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 3812630
 Ion Ratio Lower Upper
 105 100
 120 45.3 36.4 54.6

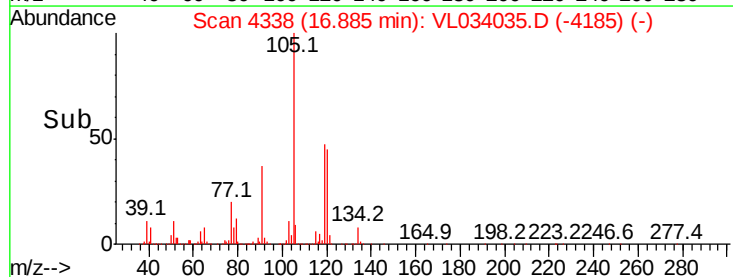
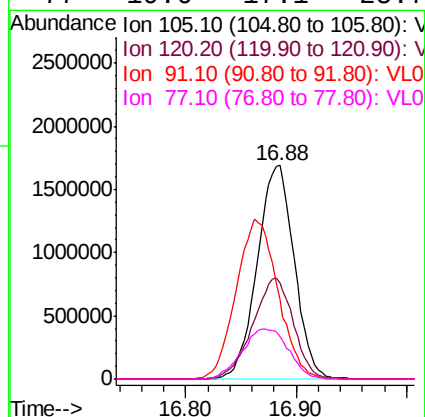
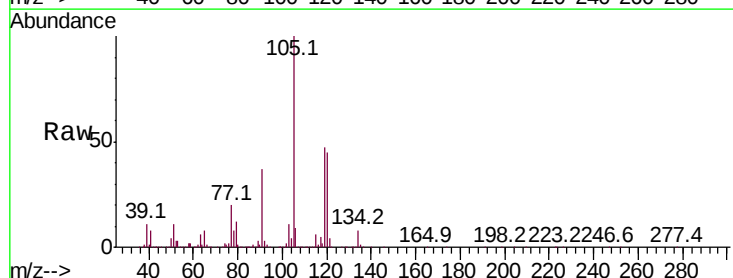
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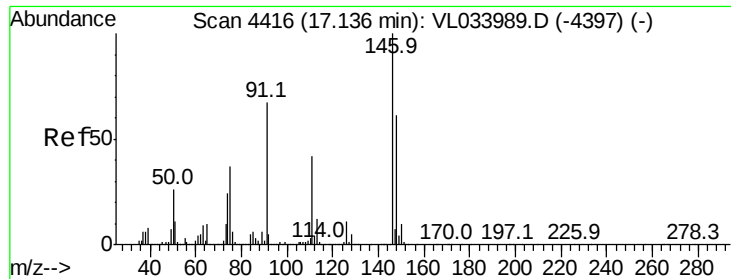
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#74
 1,2,4-Trimethylbenzene
 Concen: 8.208 ppbv
 RT: 16.88 min Scan# 4338
 Delta R.T. -0.01 min
 Lab File: VL034035.D
 Acq: 17 Jul 2019 15:13

Tgt Ion:105 Resp: 3917626
 Ion Ratio Lower Upper
 105 100
 120 45.0 36.2 54.2
 91 37.1 34.3 51.5
 77 19.6 17.1 25.7





#75

1,3-Dichlorobenzene

Concen: 7.632 ppbv

RT: 17.12 min Scan# 4411

Delta R.T. -0.02 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2313963

Ion Ratio Lower Upper

146 100

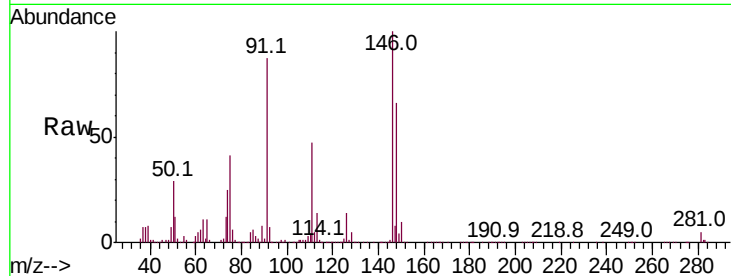
111 45.5 22.3 66.9

148 65.6 32.0 96.2

Manual Integrations
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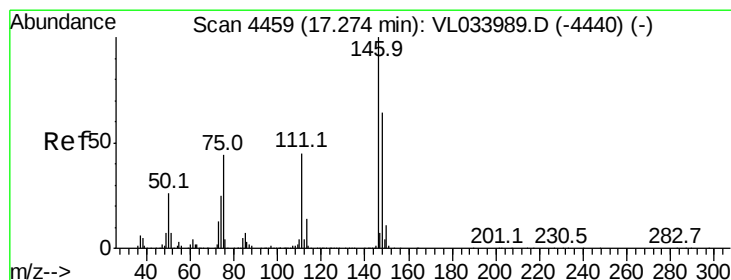
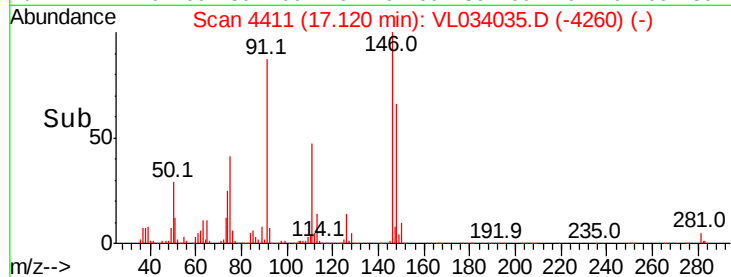
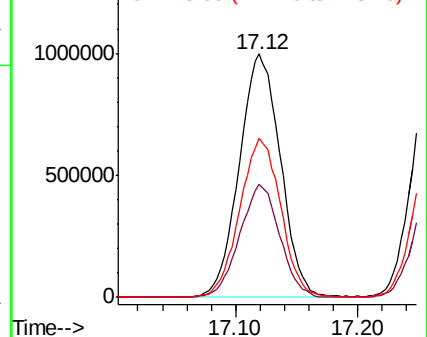
7/19/2019 1:37:10 AM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.051 ppbv

RT: 17.26 min Scan# 4455

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

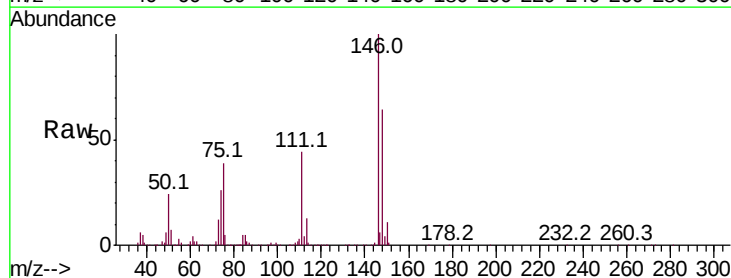
Tgt Ion:146 Resp: 2298882

Ion Ratio Lower Upper

146 100

111 44.1 21.9 65.5

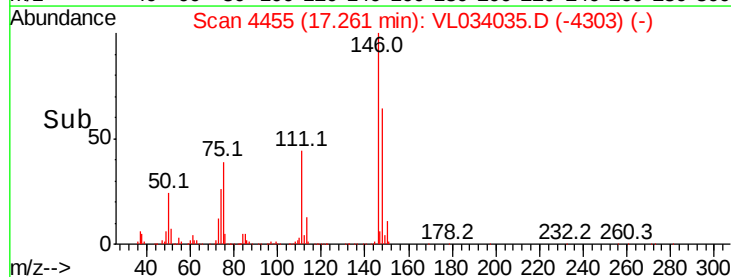
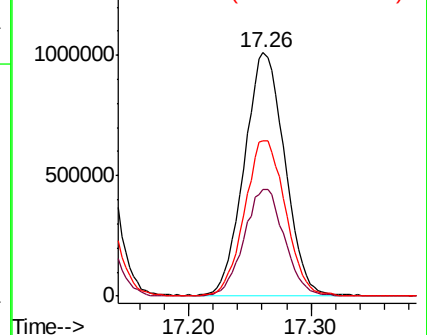
148 65.4 32.5 97.5

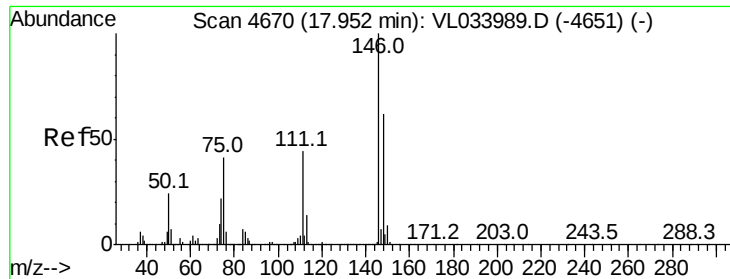


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.016 ppbv

RT: 17.94 min Scan# 4666

Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Instrument :

MSVOA_L

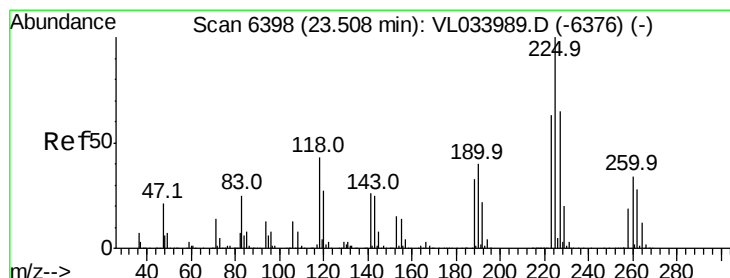
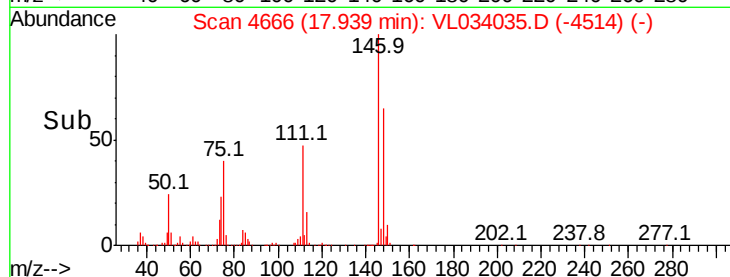
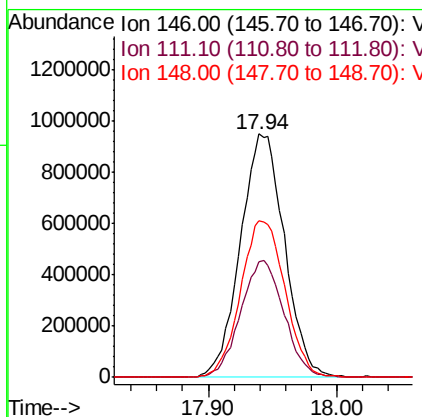
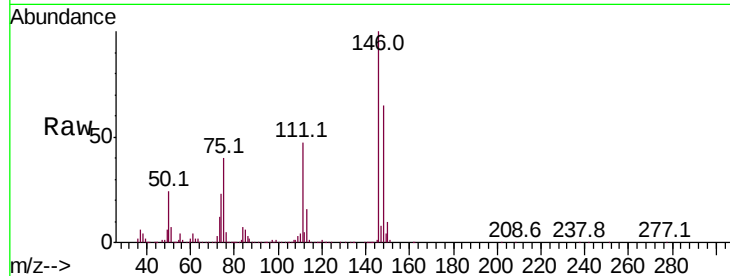
ClientSampleId :

VSTDCCC010

Tot Ion:	146	Resp:	2250453
Ion	Ratio	Lower	Upper
146	100		
111	47.4	22.7	68.1
148	65.1	32.1	96.3

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#78

Hexachloro-1,3-Butadiene

Concen: 8.131 ppbv

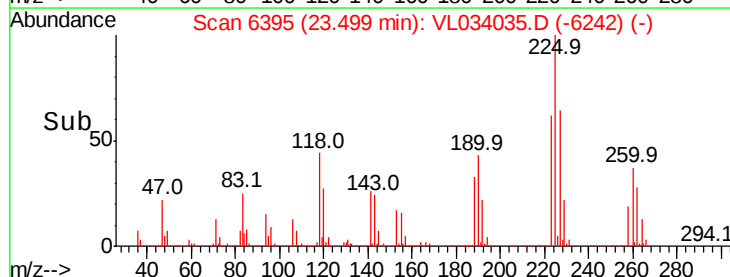
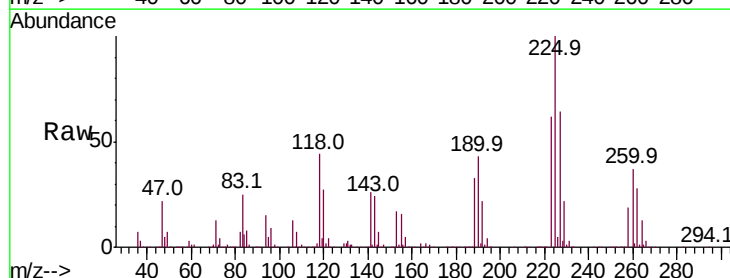
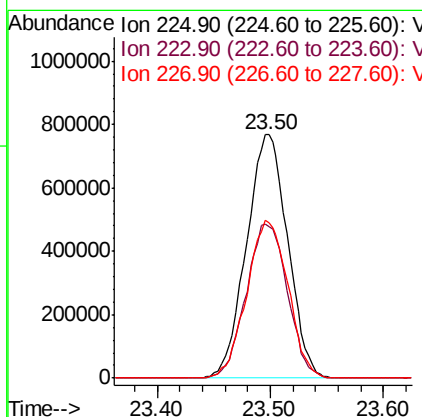
RT: 23.50 min Scan# 6395

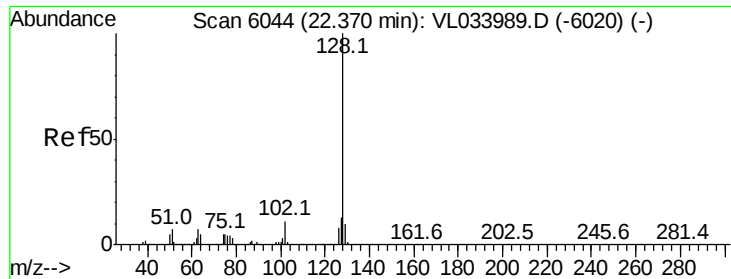
Delta R.T. -0.01 min

Lab File: VL034035.D

Acq: 17 Jul 2019 15:13

Tgt Ion:	225	Resp:	1942414
Ion	Ratio	Lower	Upper
225	100		
223	63.5	51.5	77.3
227	64.7	52.1	78.1





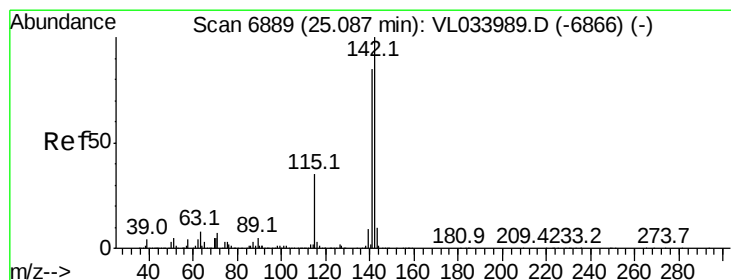
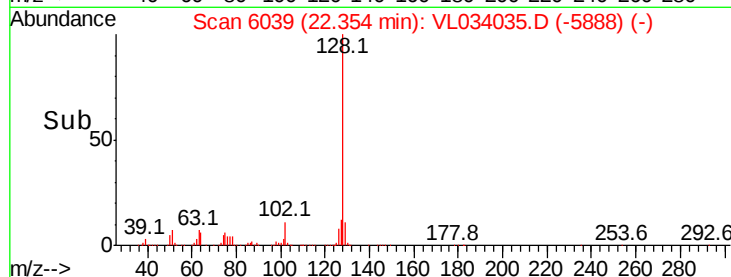
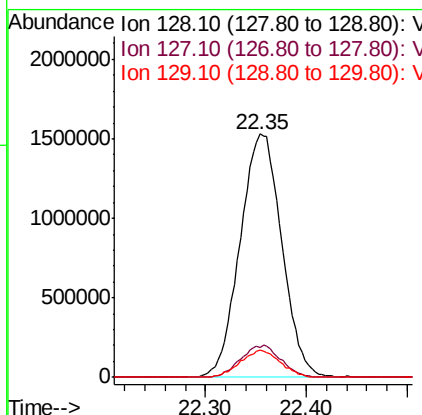
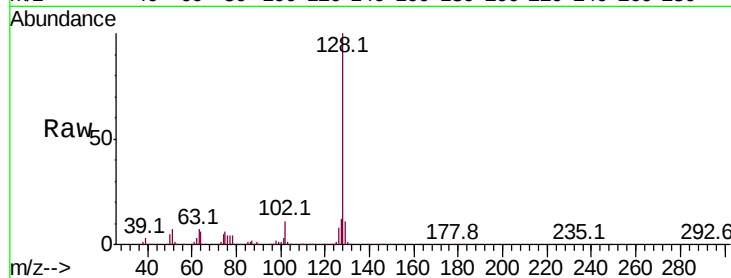
#79
Naphthalene
Concen: 10.914 ppbv
RT: 22.35 min Scan# 6039
Delta R.T. -0.02 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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

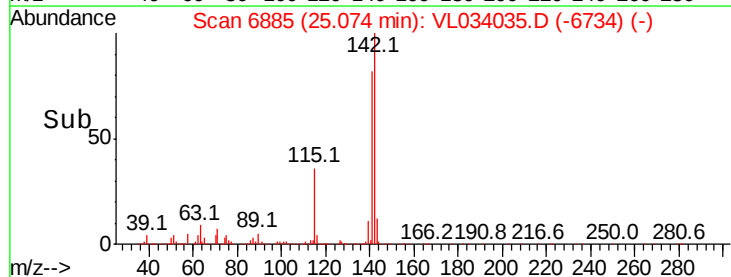
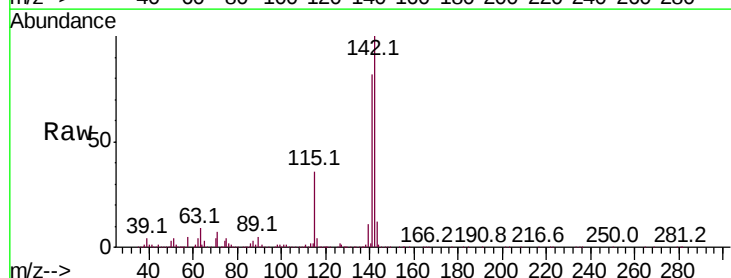
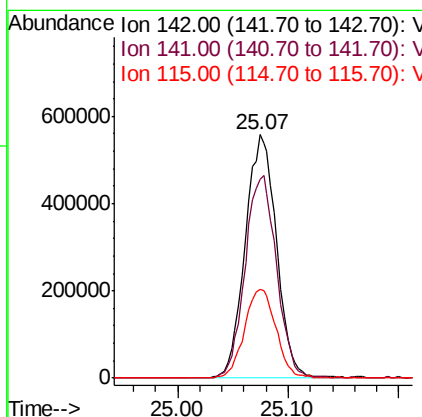
Manual Integrations
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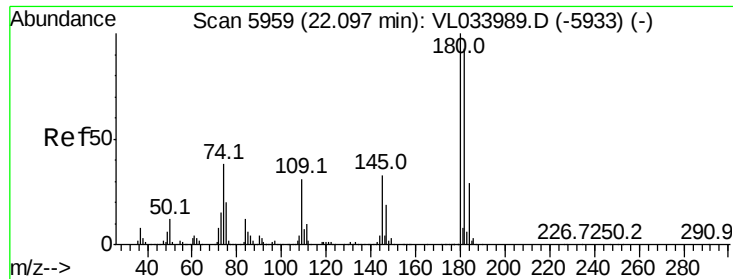
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7/19/2019 1:37:10 AM



#80
Naphthalene, 2-methyl-
Concen: 7.514 ppbv
RT: 25.07 min Scan# 6885
Delta R.T. -0.01 min
Lab File: VL034035.D
Acq: 17 Jul 2019 15:13

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.1	68.2	102.2
115	37.4	29.9	44.9





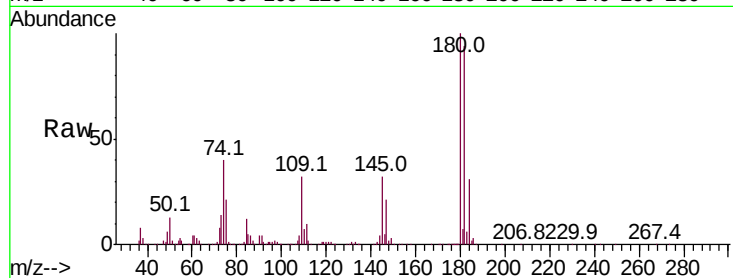
#81
 1,2,4-Trichlorobenzene
 Concen: 9.647 ppbv
 RT: 22.08 min Scan# 5954
 Delta R.T. -0.02 min
 Lab File: VL034035.D
 Acq: 17 Jul 2019 15:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.6	114.8
184	30.7	24.6	36.8

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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

