

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092419\
 Data File : VL034197.D
 Acq On : 24 Sep 2019 10:20
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 9/26/2019 12:39:27 AM

Quant Time: Sep 25 05:44:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1177399	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2009697	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2147332m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	1839981	9.86	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1310388	7.535	ppbv 98
3) Chlorodifluoromethane	2.97	51	1314406	9.521	ppbv 100
4) Chloromethane	3.13	50	785996	9.689	ppbv 97
5) Vinyl Chloride	3.25	62	689791	9.304	ppbv 100
6) Bromomethane	3.47	94	336698	9.734	ppbv 96
7) Chloroethane	3.55	64	259157	10.001	ppbv 91
8) Dichlorotetrafluoroethane	3.18	85	1438972	9.375	ppbv 97
9) Propene	2.99	41	653234	9.591	ppbv 100
10) Heptane	8.18	43	1714015	9.656	ppbv 100
11) Trichlorofluoromethane	3.95	101	1529529	9.662	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	995101	9.605	ppbv 99
13) Ethanol	3.60	45	138736	8.412	ppbv 98
14) Bromoethene	3.74	108	427456	10.092	ppbv 99
15) Acetone	3.85	43	1313337	8.323	ppbv 99
16) 1,3-Butadiene	3.32	39	694468	10.084	ppbv 97
17) tert-Butyl alcohol	4.30	59	1152786	11.529	ppbv 100
18) 1,1-Dichloroethene	4.29	96	446742	9.887	ppbv 98
19) Isopropyl Alcohol	3.97	45	1047552	10.795	ppbv 100
20) Methylene Chloride	4.35	84	408584	8.980	ppbv 94
21) Allyl Chloride	4.42	41	910450	10.215	ppbv 99
22) trans-1,2-Dichloroethene	4.90	96	460068	10.176	ppbv 99
23) Vinyl Acetate	5.10	43	2258128	9.711	ppbv 99
24) 1,1-Dichloroethane	5.03	63	1473376	9.410	ppbv 99
25) Ethyl Acetate	5.71	43	2740663	9.184	ppbv 100
26) Hexane	5.72	57	1163969	9.377	ppbv 99
27) Carbon Disulfide	4.56	76	1257354	10.983	ppbv 99
28) Methyl tert-Butyl Ether	5.05	73	1789026	9.704	ppbv 99
29) Chloroform	5.79	83	1711037	9.646	ppbv 99
30) Cyclohexane	7.18	84	874464	9.758	ppbv 99
31) cis-1,2-Dichloroethene	5.58	61	1247675	9.860	ppbv 99
32) 1,1,1-Trichloroethane	6.56	97	1663351	9.723	ppbv 99
34) 2-Butanone	5.27	43	1930258	9.407	ppbv 100
35) Carbon Tetrachloride	7.07	117	1650151	9.883	ppbv 99
36) Benzene	6.94	78	2104256	9.480	ppbv 98
37) 1,2-Dichloroethane	6.35	62	1545403	9.789	ppbv 100
38) Trichloroethene	7.89	130	714375	9.008	ppbv 97
39) 1,2-Dichloropropane	7.67	63	943076	9.456	ppbv 99
40) 1,4-Dioxane	7.88	88	329123	10.198	ppbv # 88
41) Tetrahydrofuran	6.08	42	1152244	9.970	ppbv 99
42) Bromodichloromethane	7.85	83	1896764	10.011	ppbv # 99
43) Methyl Methacrylate	8.07	69	942355m	10.278	ppbv

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3925863	9.188	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	1268340	11.699	ppbv	100
46) cis-1,3-Dichloropropene	8.77	75	1397360	10.715	ppbv	95
47) 1,1,2-Trichloroethane	9.55	97	842047	9.403	ppbv	97
48) Dibromochloromethane	10.38	129	1436150	10.118	ppbv	99
49) Bromoform	13.13	173	1204163	10.484	ppbv	100
50) 4-Methyl-2-Pentanone	8.80	43	2850317	9.544	ppbv	98
51) 2-Hexanone	10.20	43	2464611	9.834	ppbv #	99
52) Tetrachloroethene	11.30	164	657442m	8.965	ppbv	
53) Toluene	9.87	91	2337826	9.637	ppbv	99
54) 1,2-Dibromoethane	10.69	107	1282312	9.629	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.21	131	931835	9.731	ppbv	99
57) Chlorobenzene	12.23	112	1702834	9.108	ppbv	99
58) Ethyl Benzene	12.79	91	3238913	9.348	ppbv	97
59) m/p-Xylene	13.08	91	5327138m	18.563	ppbv	
60) o-Xylene	13.78	91	2616970	9.120	ppbv	99
61) Styrene	13.61	104	1976355	9.615	ppbv	99
62) Isopropylbenzene	14.75	105	3375643	9.087	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	1904338	8.093	ppbv	99
64) n-propylbenzene	15.64	120	880336	9.367	ppbv	94
65) tert-Butylbenzene	16.84	119	2885567	8.890	ppbv	100
66) Benzyl Chloride	17.08	91	1486134	12.942	ppbv	99
67) sec-Butylbenzene	17.38	105	4198101	9.045	ppbv	99
69) p-Isopropyltoluene	17.74	119	3396510	9.037	ppbv	99
70) n-Butylbenzene	18.64	91	3887356	8.883	ppbv	100
71) 2-Chlorotoluene	15.54	91	2781925	9.166	ppbv	100
72) 4-Ethyltoluene	15.93	105	3003038	9.263	ppbv	100
73) 1,3,5-Trimethylbenzene	16.09	105	2894963	9.243	ppbv	99
74) 1,2,4-Trimethylbenzene	16.85	105	2912757	8.758	ppbv	99
75) 1,3-Dichlorobenzene	17.09	146	1569879	8.798	ppbv	100
76) 1,4-Dichlorobenzene	17.24	146	1588389	8.692	ppbv	97
77) 1,2-Dichlorobenzene	17.91	146	1570056	8.694	ppbv	98
78) Hexachloro-1,3-Butadiene	23.47	225	1001946	8.376	ppbv	99
79) Naphthalene	22.32	128	2625403	8.967	ppbv	98
80) Naphthalene, 2-methyl-	25.05	142	1394115	10.239	ppbv	99
81) 1,2,4-Trichlorobenzene	22.05	180	1412796	8.711	ppbv	100

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

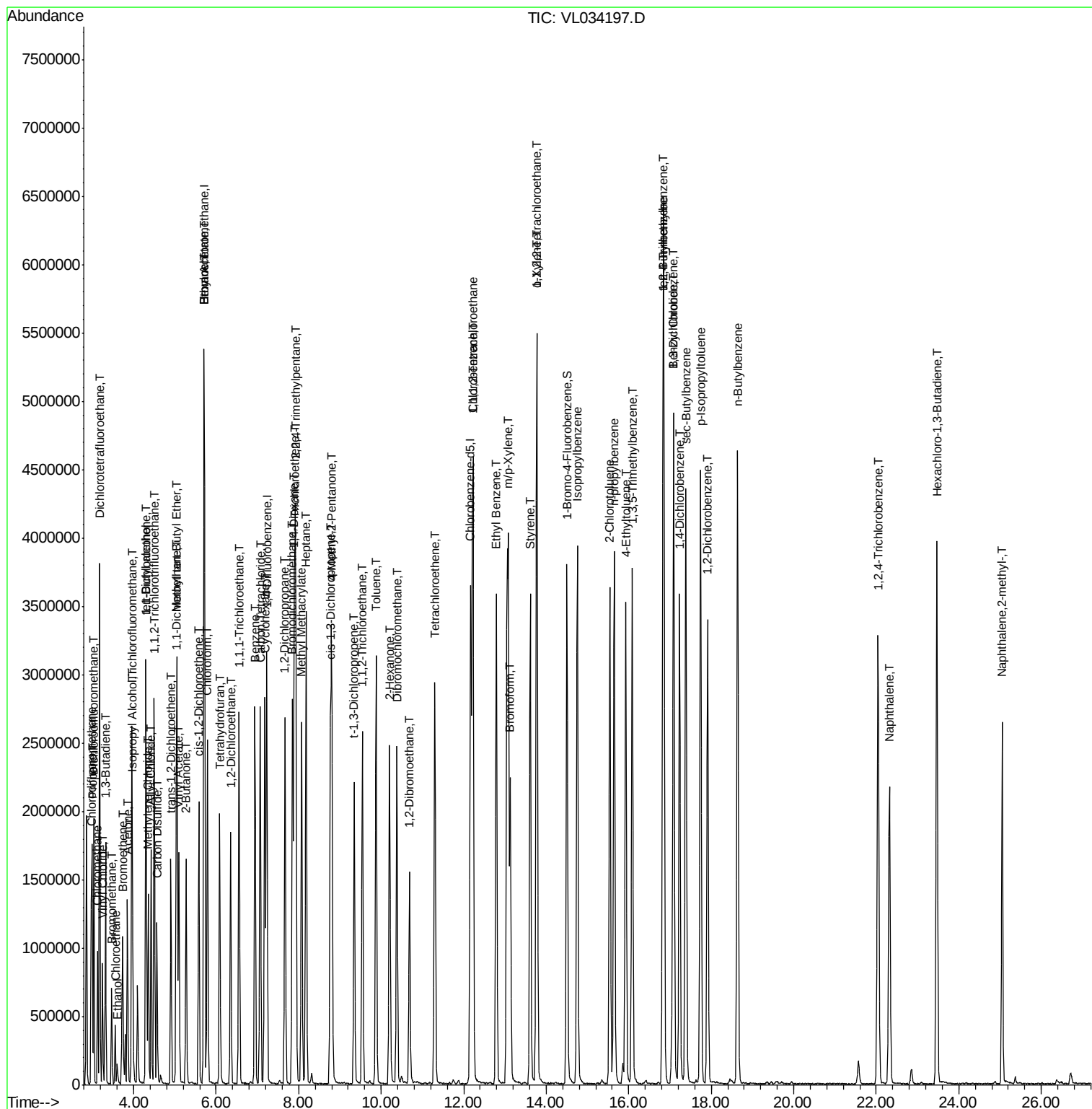
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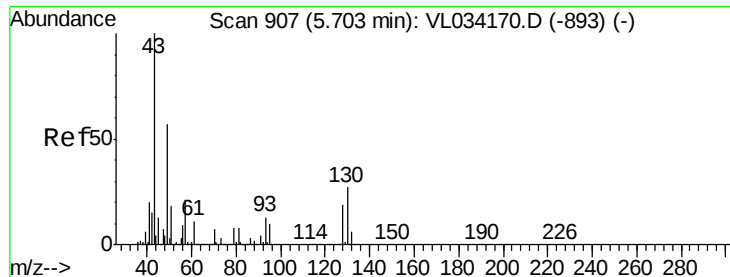
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QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. -0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1177399

Ion Ratio Lower Upper

49 100

128 34.4 17.6 52.9

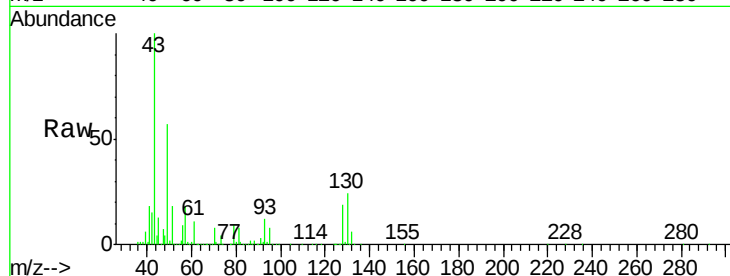
130 43.7 22.3 66.9

Manual Integrations

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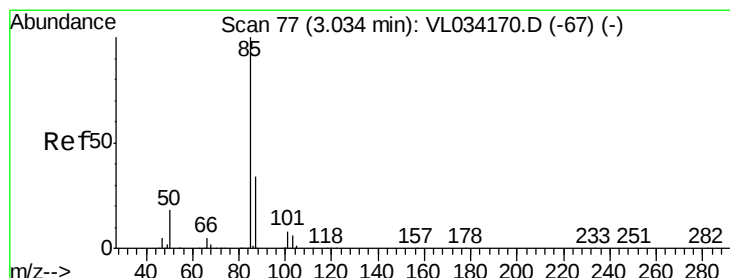
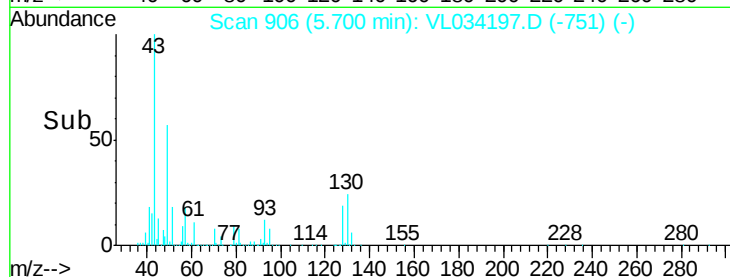
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 7.535 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL034197.D

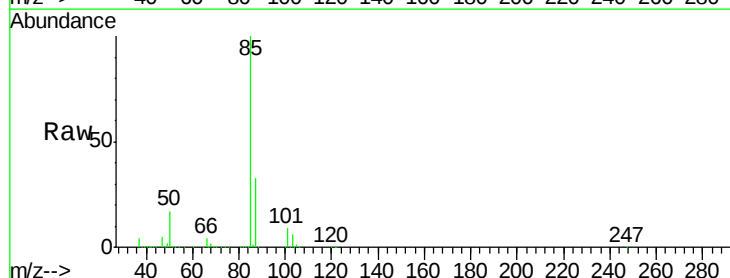
Acq: 24 Sep 2019 10:20

Tgt Ion: 85 Resp: 1310388

Ion Ratio Lower Upper

85 100

87 32.7 27.2 40.8

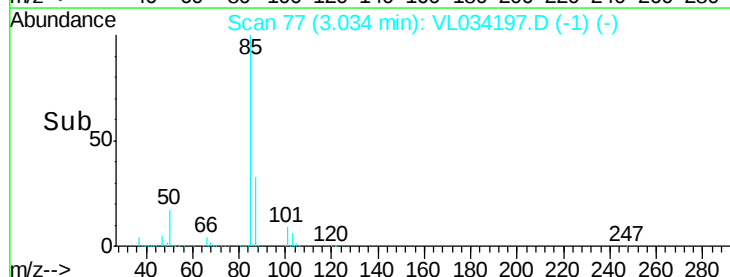


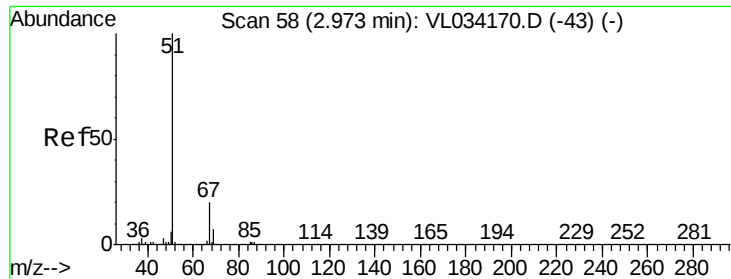
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.03

Time-->





#3

Chlorodifluoromethane

Concen: 9.521 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 1314406

Ion Ratio Lower Upper

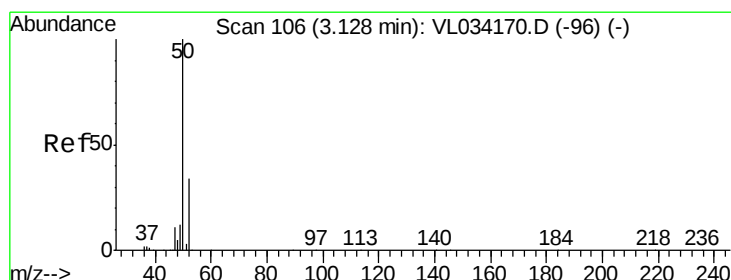
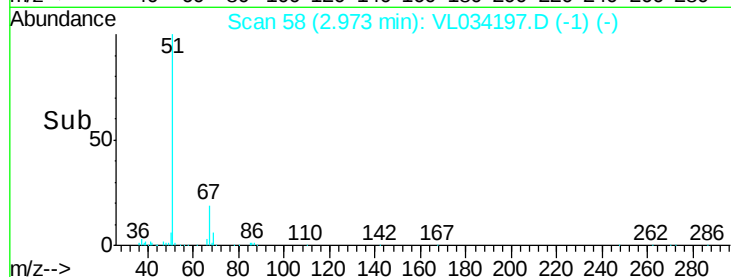
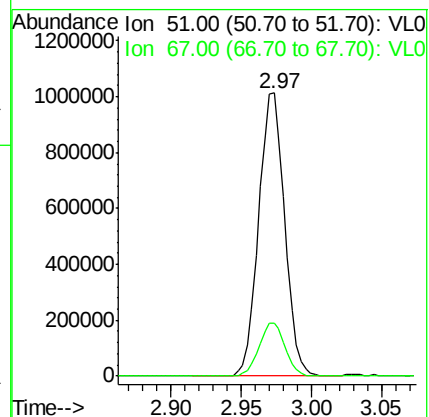
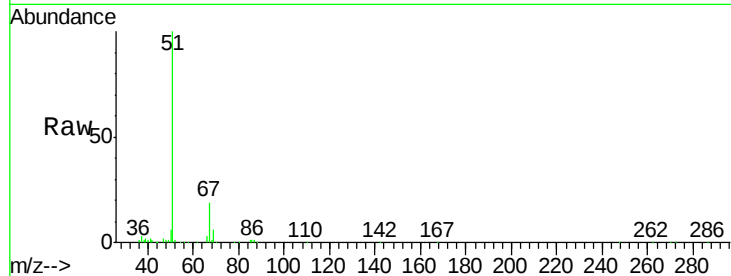
51 100

67 18.7 14.8 22.2

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#4

Chloromethane

Concen: 9.689 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL034197.D

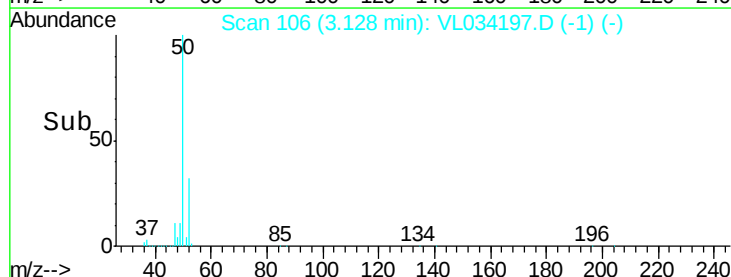
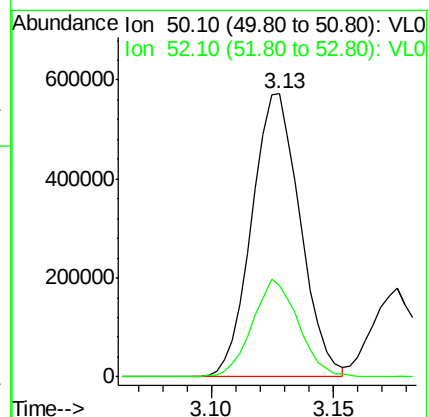
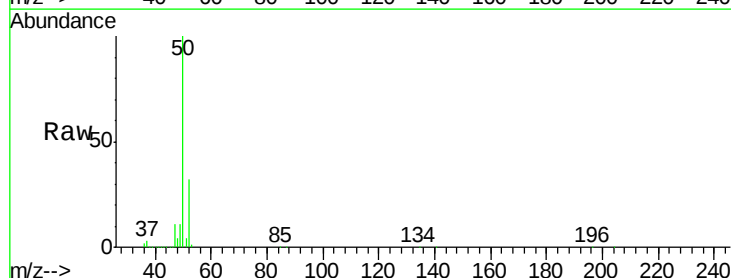
Acq: 24 Sep 2019 10:20

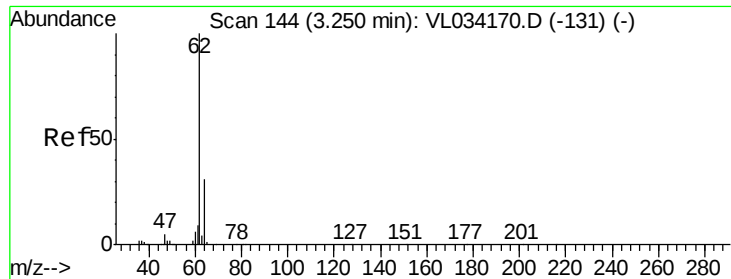
Tgt Ion: 50 Resp: 785996

Ion Ratio Lower Upper

50 100

52 32.2 27.1 40.7





#5

Vinyl Chloride

Concen: 9.304 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

ClientSampleID :

VSTDCCC010

Tot Ion: 62 Resp: 689791

Ion Ratio Lower Upper

62 100

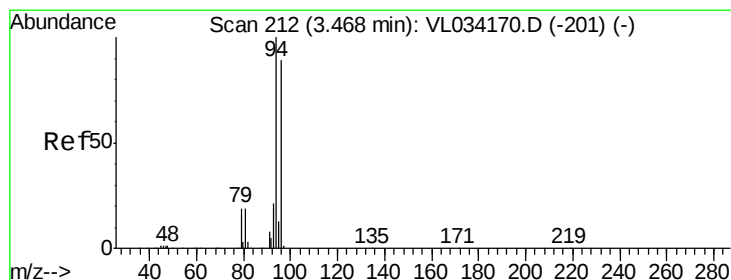
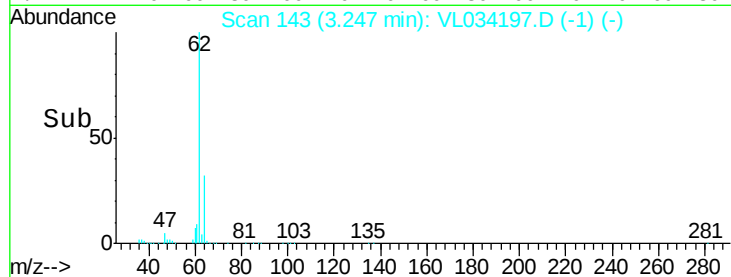
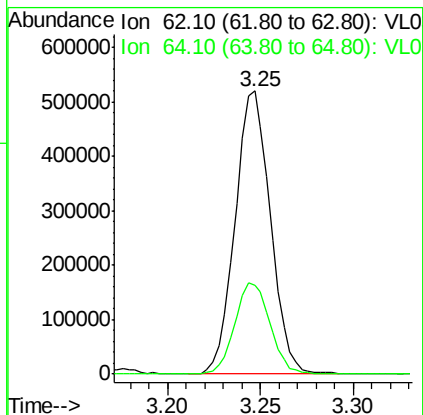
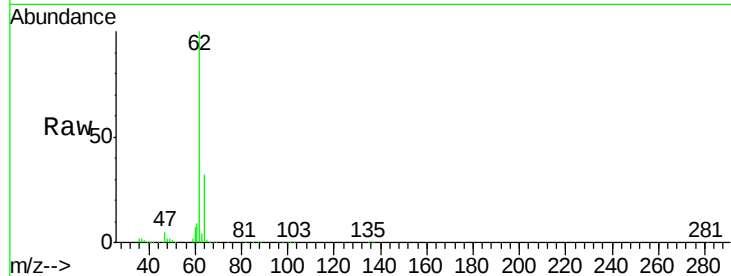
64 31.6 25.2 37.8

Manual Integrations

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#6

Bromomethane

Concen: 9.734 ppbv

RT: 3.47 min Scan# 212

Delta R.T. 0.00 min

Lab File: VL034197.D

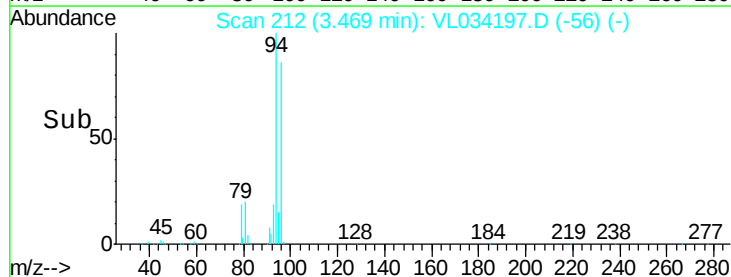
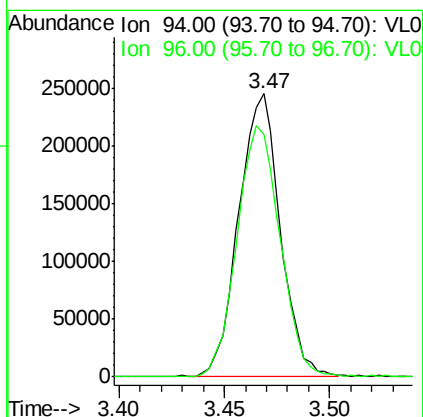
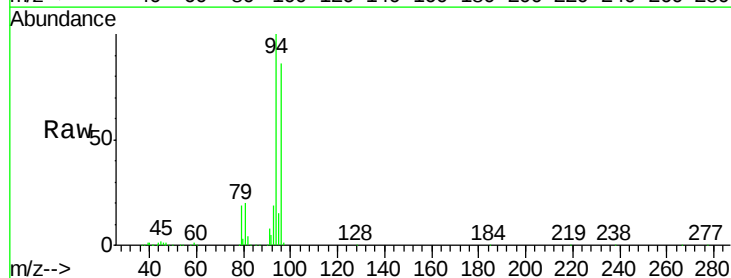
Acq: 24 Sep 2019 10:20

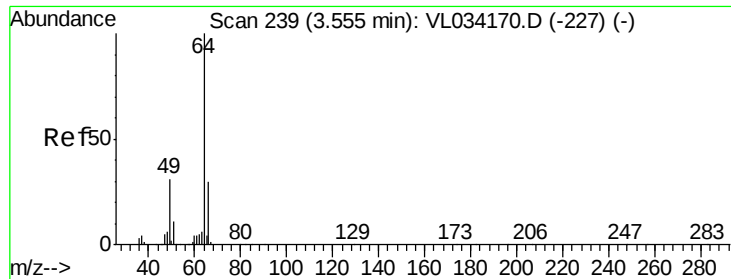
Tgt Ion: 94 Resp: 336698

Ion Ratio Lower Upper

94 100

96 85.6 71.3 106.9





#7

Chloroethane

Concen: 10.001 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

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ClientSampleId :

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Tot Ion: 64 Resp: 259157

Ion Ratio Lower Upper

64 100

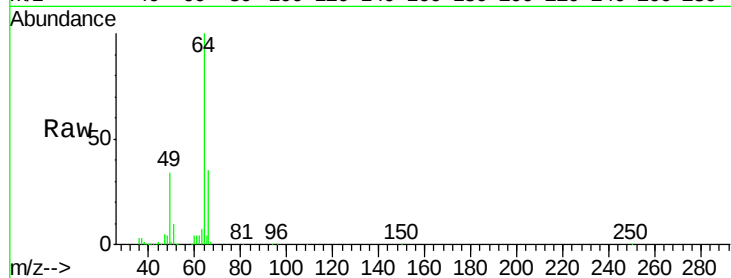
66 35.2 24.2 36.4

Manual Integrations

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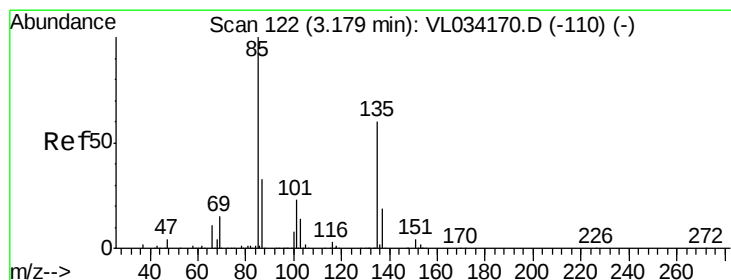
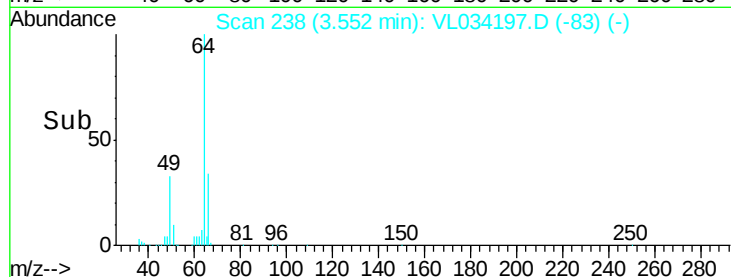
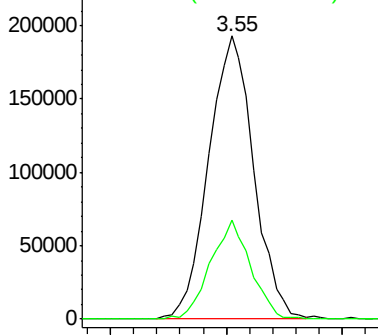
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.375 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.00 min

Lab File: VL034197.D

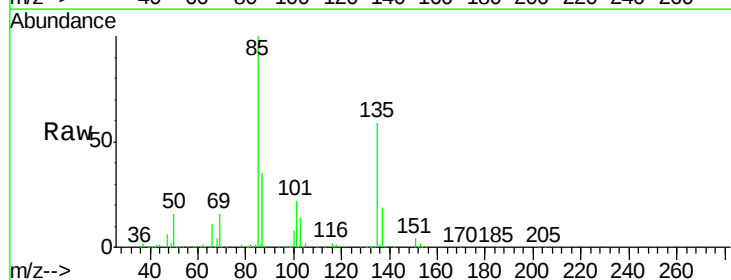
Acq: 24 Sep 2019 10:20

Tgt Ion: 85 Resp: 1438972

Ion Ratio Lower Upper

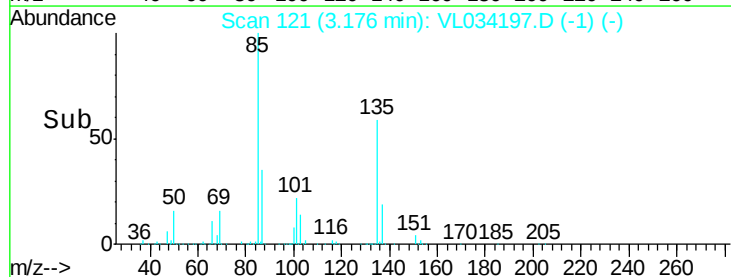
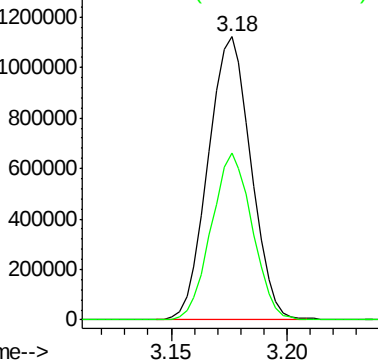
85 100

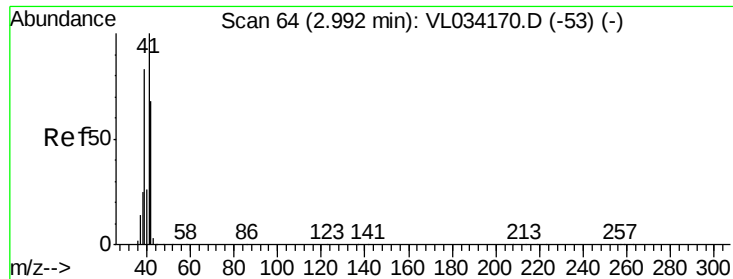
135 56.9 47.3 70.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





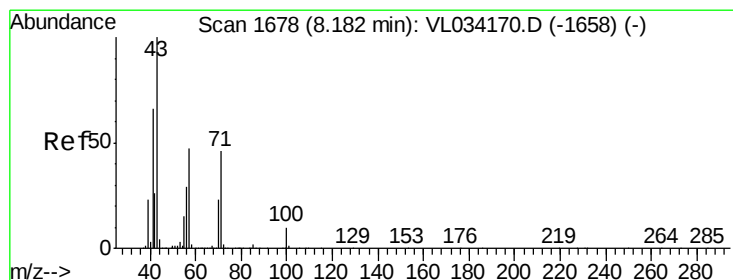
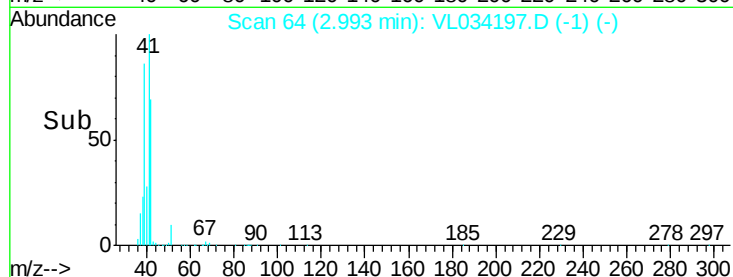
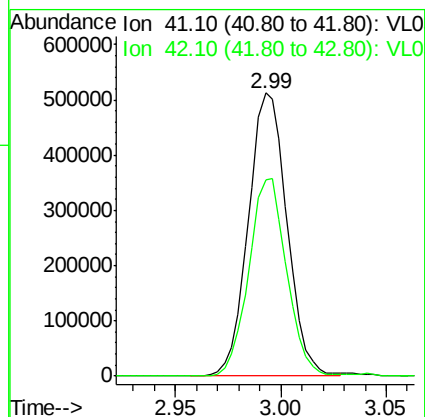
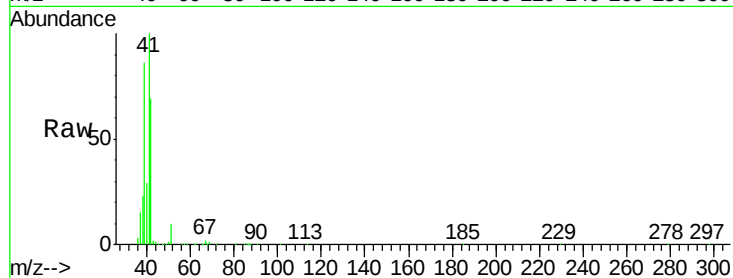
#9
 Propene
 Concen: 9.591 ppbv
 RT: 2.99 min Scan# 64
 Delta R.T. 0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Instrument :
 MSVOA_L
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 VSTDCCC010

Tot Ion: 41 Resp: 653234
 Ion Ratio Lower Upper
 41 100
 42 69.4 55.8 83.6

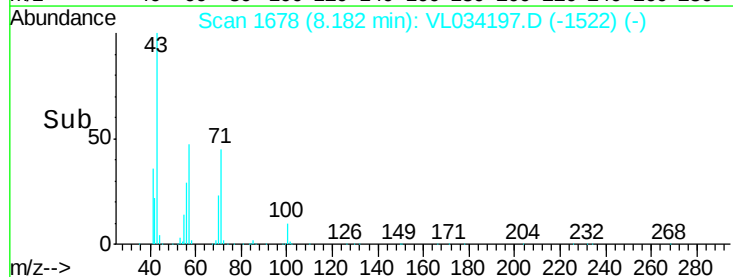
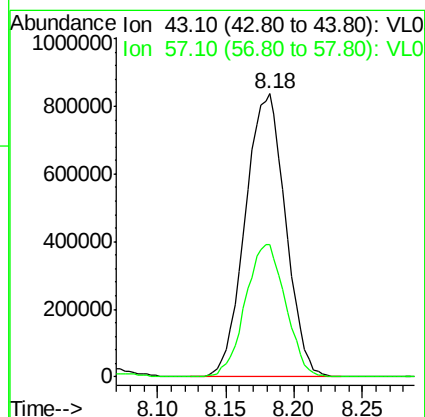
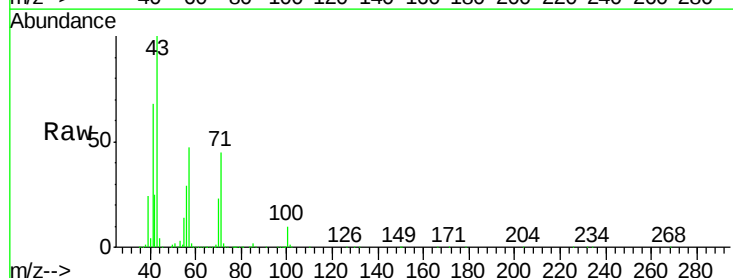
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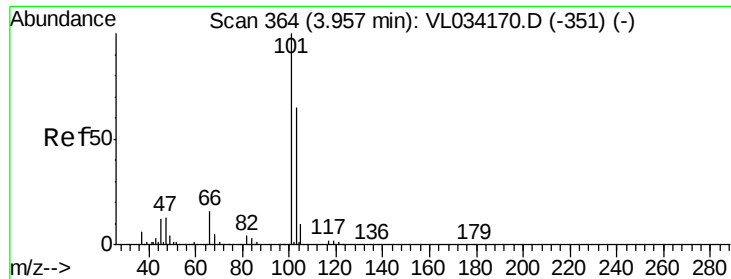
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#10
 Heptane
 Concen: 9.656 ppbv
 RT: 8.18 min Scan# 1678
 Delta R.T. 0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Tgt Ion: 43 Resp: 1714015
 Ion Ratio Lower Upper
 43 100
 57 46.9 37.5 56.3





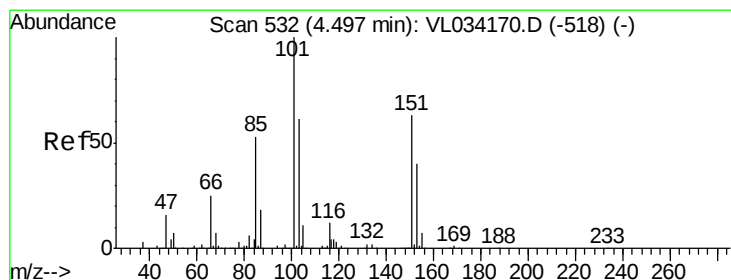
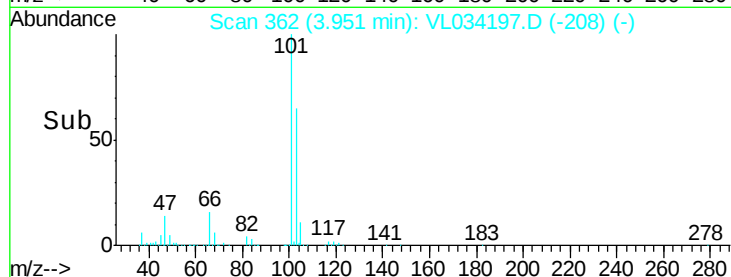
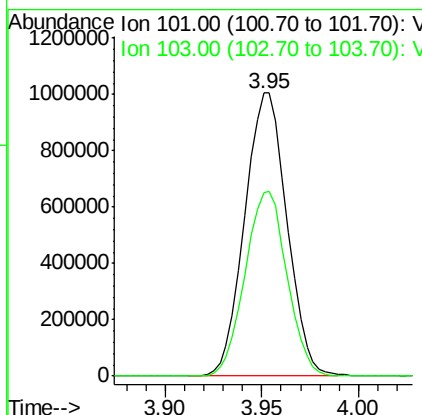
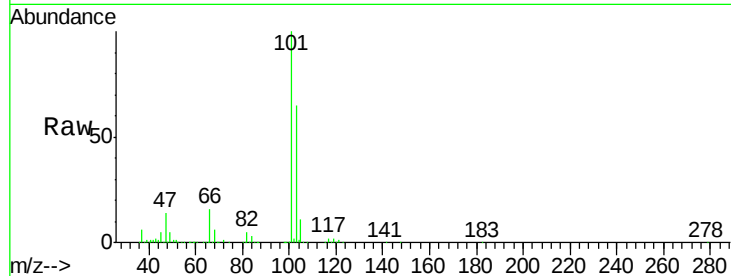
#11
 Trichlorofluoromethane
 Concen: 9.662 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.01 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1529529
 Ion Ratio Lower Upper
 101 100
 103 64.6 52.1 78.1

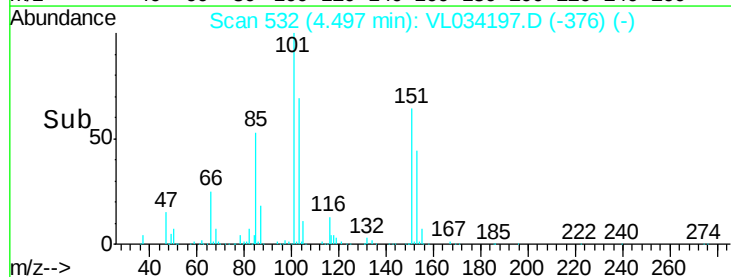
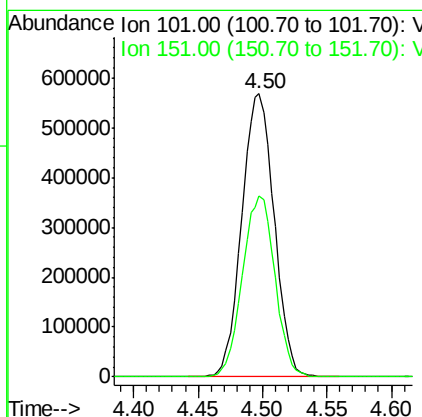
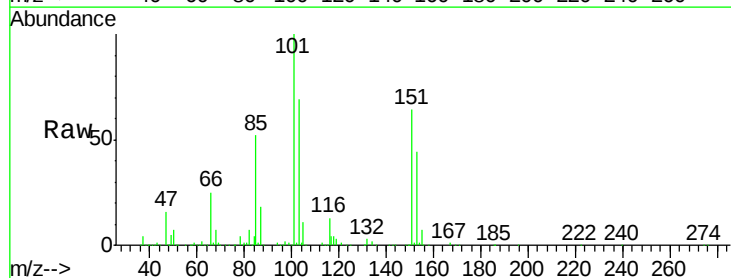
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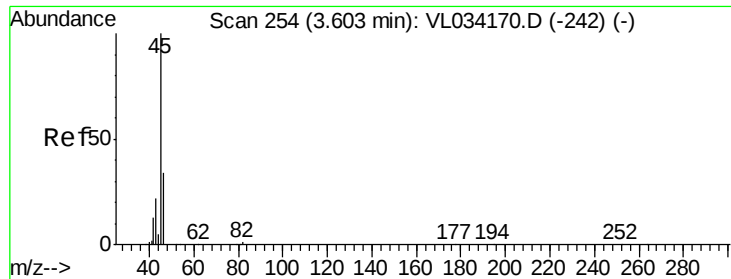
MMDadoda
 9/26/2019 12:39:27 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.605 ppbv
 RT: 4.50 min Scan# 532
 Delta R.T. 0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Tgt Ion:101 Resp: 995101
 Ion Ratio Lower Upper
 101 100
 151 64.4 51.8 77.8





#13

Ethanol

Concen: 8.412 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 138736

Ion Ratio Lower Upper

45 100

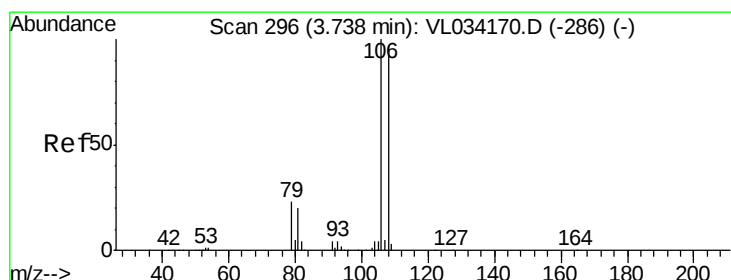
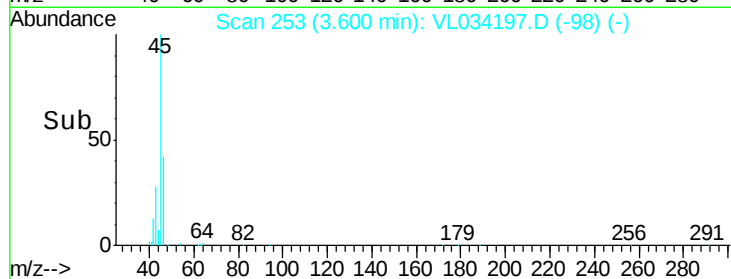
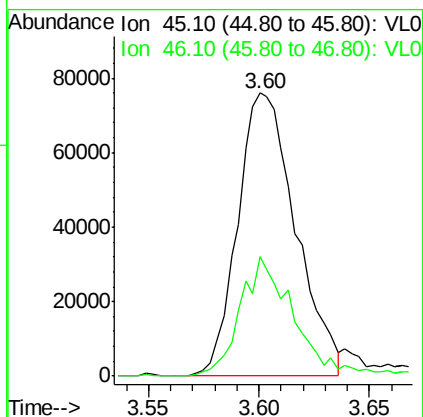
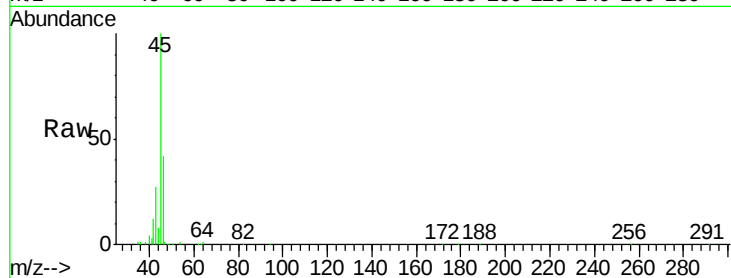
46 39.8 15.5 61.9

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#14

Bromoethene

Concen: 10.092 ppbv

RT: 3.74 min Scan# 296

Delta R.T. 0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

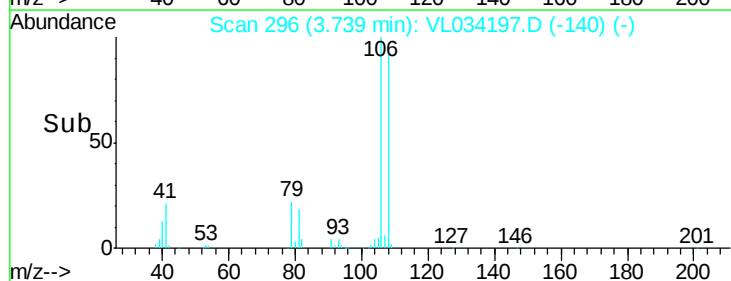
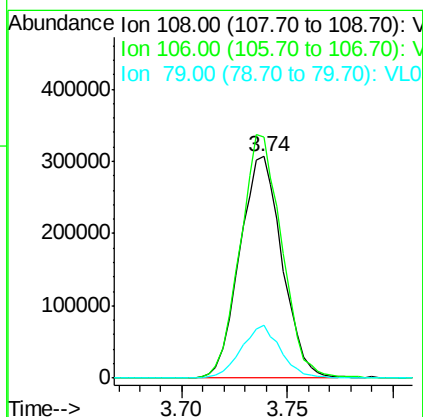
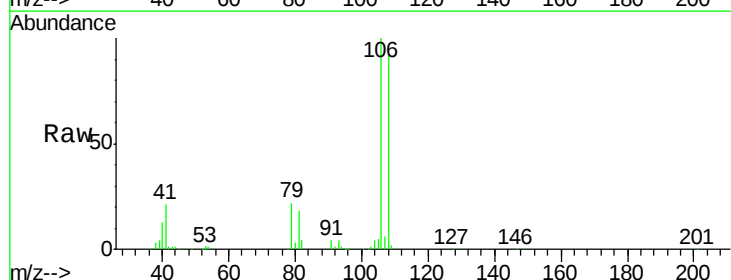
Tgt Ion: 108 Resp: 427456

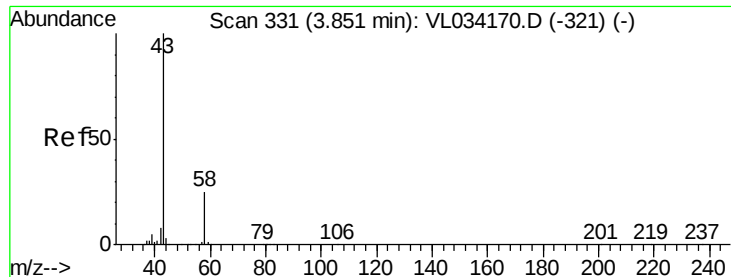
Ion Ratio Lower Upper

108 100

106 108.6 86.2 129.4

79 22.6 18.6 27.8





#15

Acetone

Concen: 8.323 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Tot Ion: 43 Resp: 1313337

Ion Ratio Lower Upper

43 100

58 25.2 20.5 30.7

Instrument :

MSVOA_L

ClientSampleId :

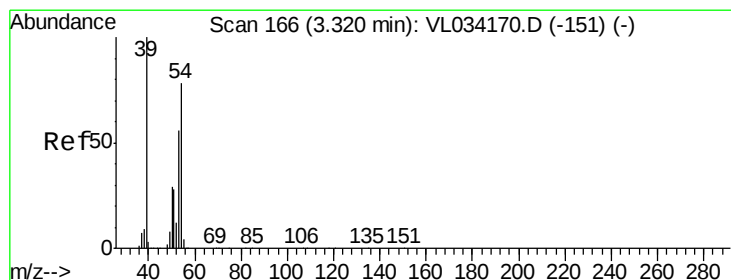
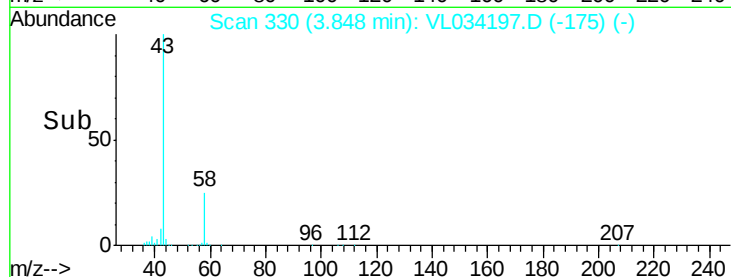
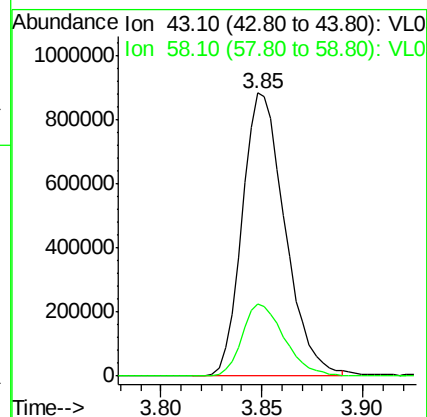
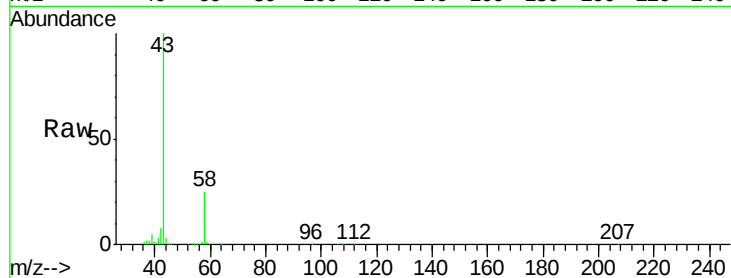
VSTDCCC010

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#16

1,3-Butadiene

Concen: 10.084 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.00 min

Lab File: VL034197.D

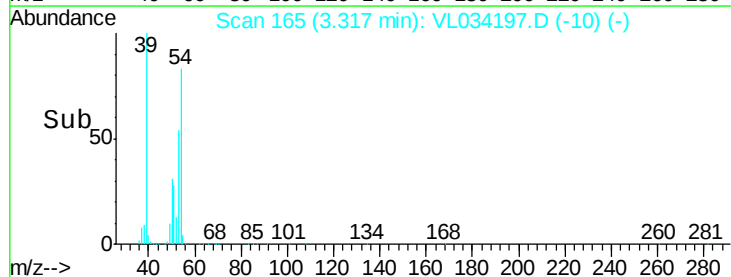
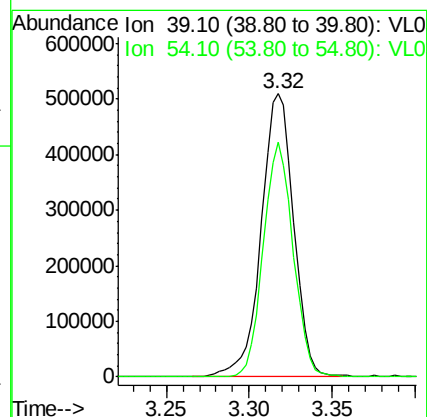
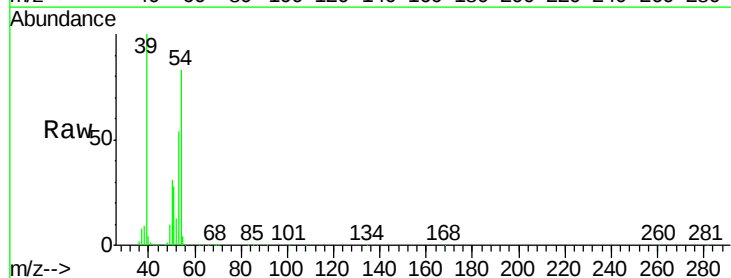
Acq: 24 Sep 2019 10:20

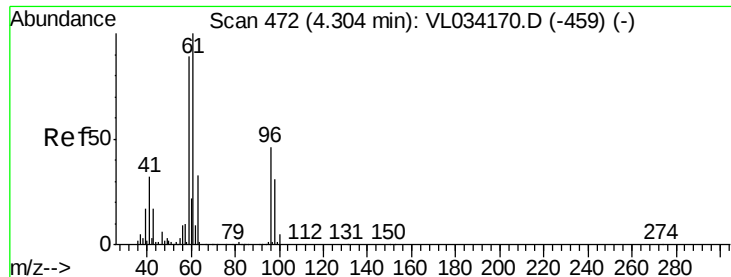
Tgt Ion: 39 Resp: 694468

Ion Ratio Lower Upper

39 100

54 76.4 63.4 95.0





#17

tert-Butyl alcohol

Concen: 11.529 ppbv

RT: 4.30 min Scan# 470

Delta R.T. -0.01 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 59 Resp: 1152786

Ion Ratio Lower Upper

59 100

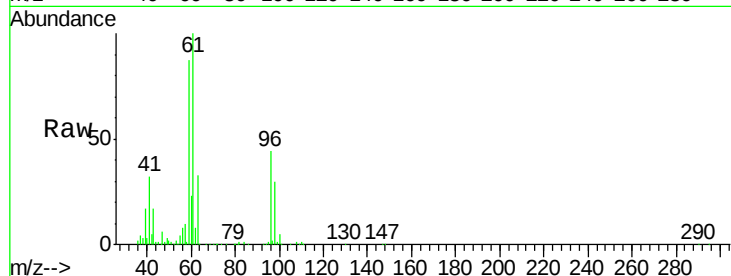
57 11.0 8.7 13.1

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.30

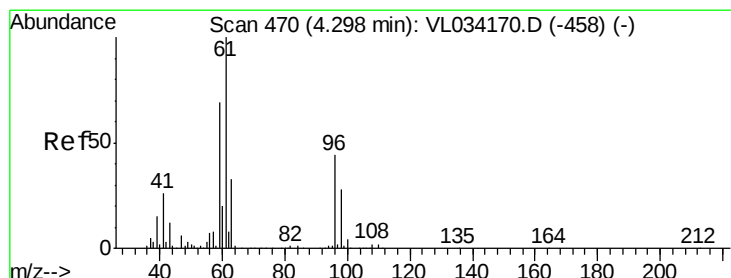
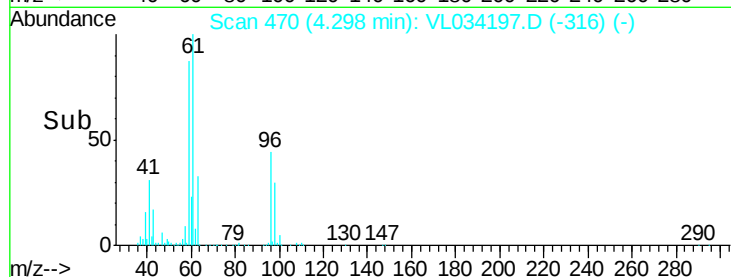
600000

400000

200000

0

Time-->



#18

1,1-Dichloroethene

Concen: 9.887 ppbv

RT: 4.29 min Scan# 469

Delta R.T. -0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

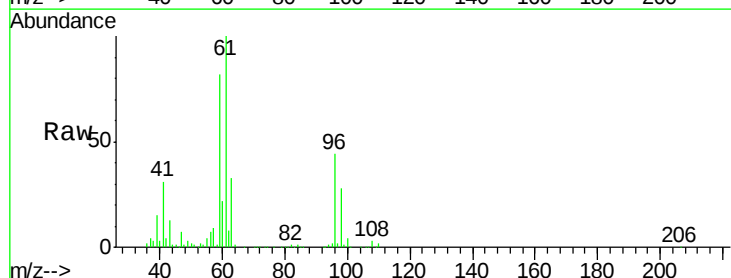
Tgt Ion: 96 Resp: 446742

Ion Ratio Lower Upper

96 100

61 224.5 183.3 274.9

98 63.5 51.4 77.2



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

4.29

800000

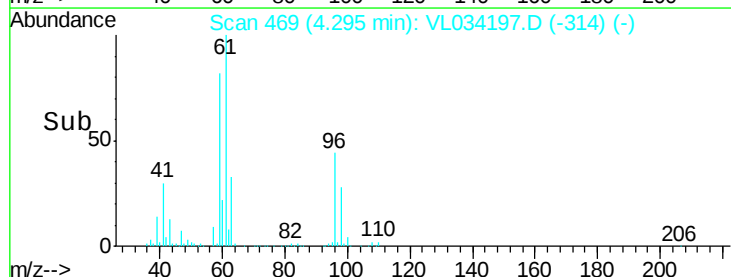
600000

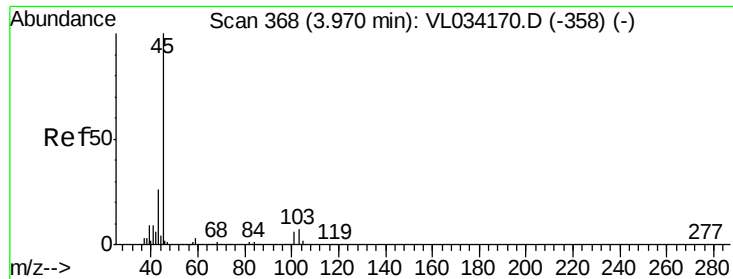
400000

200000

0

Time-->





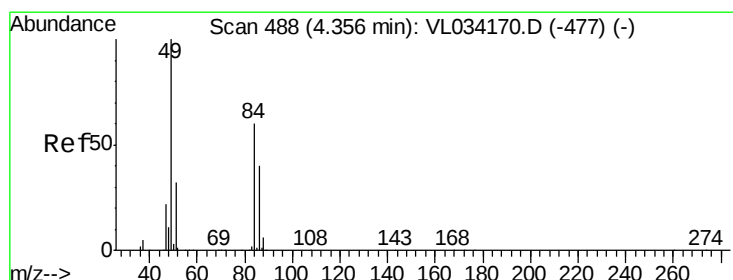
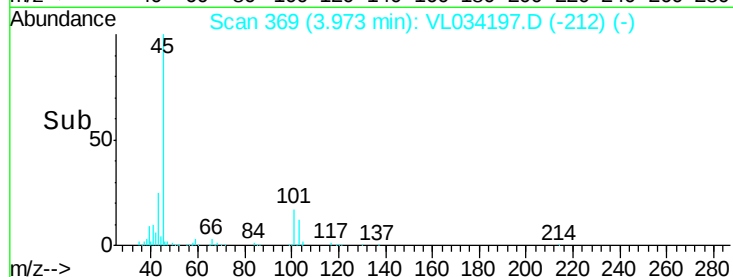
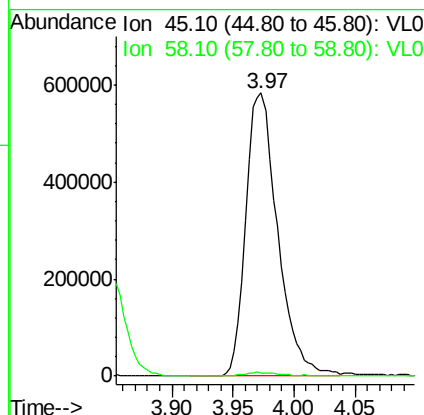
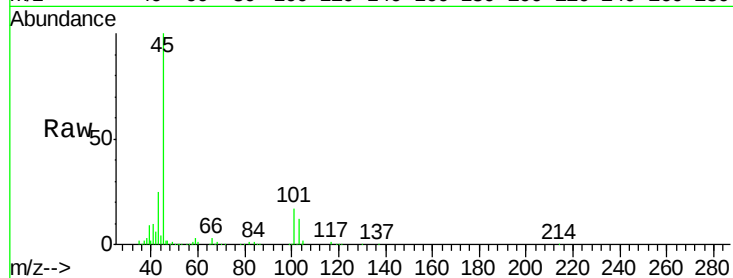
#19
Isopropyl Alcohol
Concen: 10.795 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 1047552
Ion Ratio Lower Upper
45 100
58 1.6 1.4 2.0

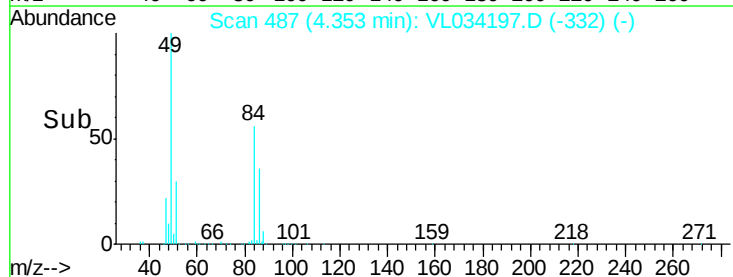
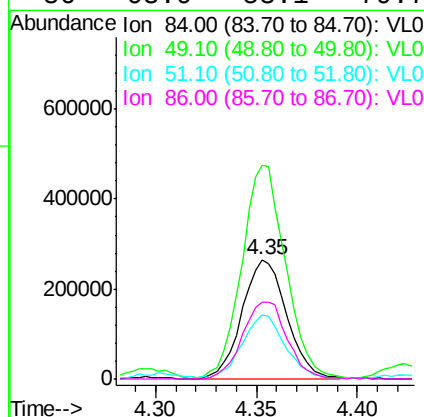
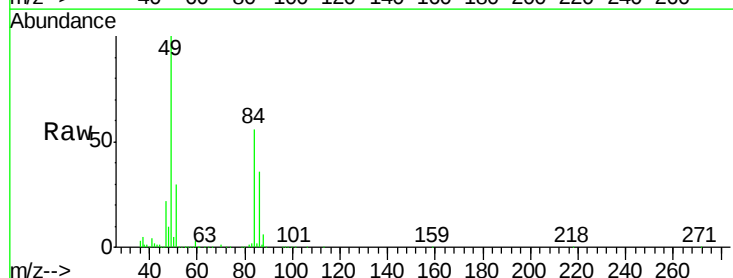
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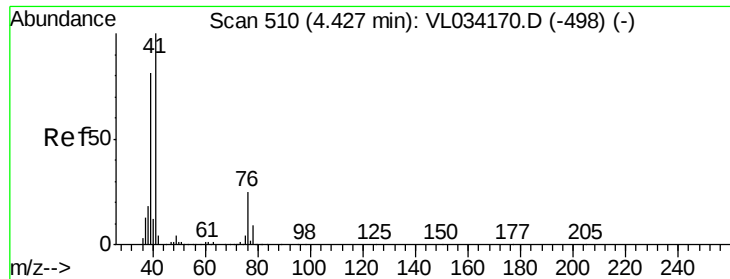
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#20
Methylene Chloride
Concen: 8.980 ppbv
RT: 4.35 min Scan# 487
Delta R.T. -0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Tgt Ion: 84 Resp: 408584
Ion Ratio Lower Upper
84 100
49 177.3 133.8 200.8
51 52.4 43.6 65.4
86 63.9 53.1 79.7





#21

Allvl Chloride

Concen: 10.215 ppbv

RT: 4.42 min Scan# 509

Delta R.T. -0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

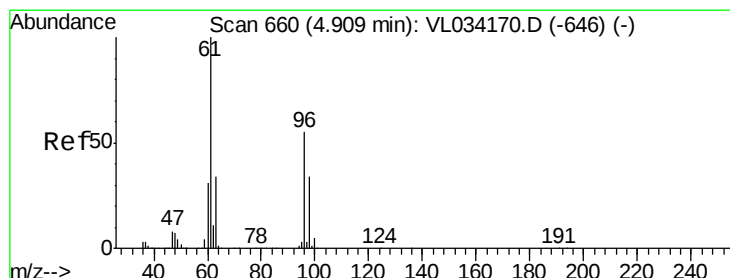
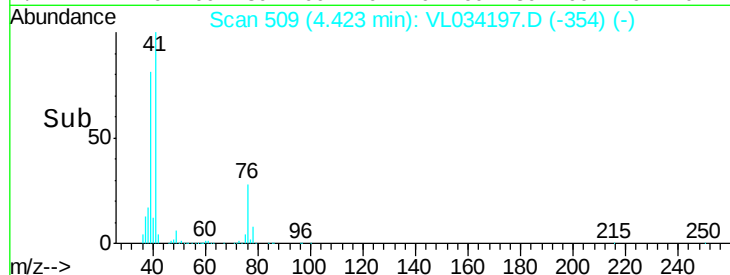
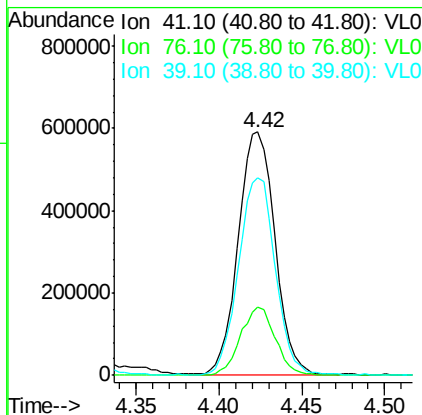
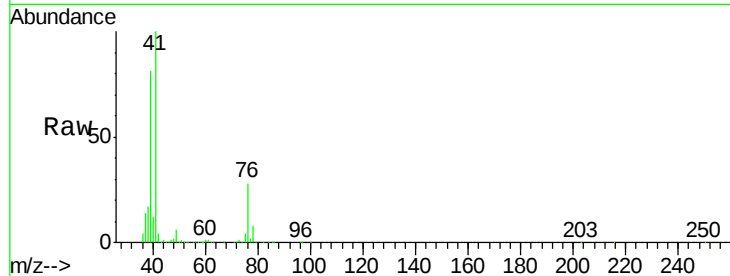
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	910450
Ion Ratio		Lower	Upper
41	100		
76	26.6	21.8	32.6
39	82.2	64.8	97.2

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#22

trans-1,2-Dichloroethene

Concen: 10.176 ppbv

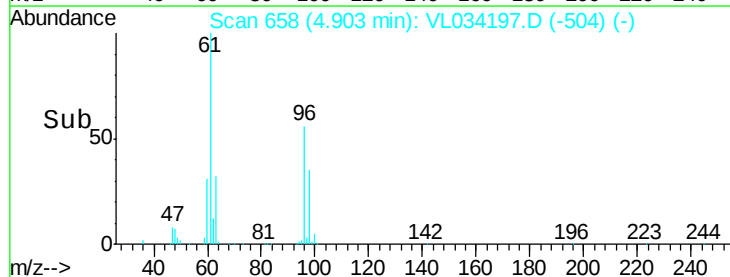
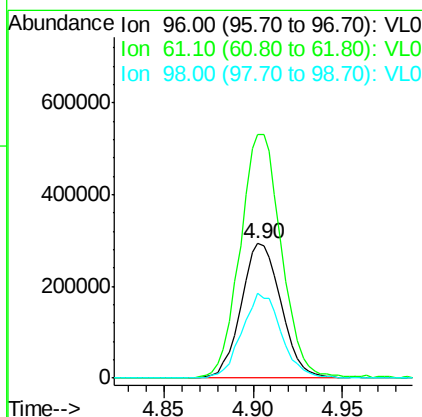
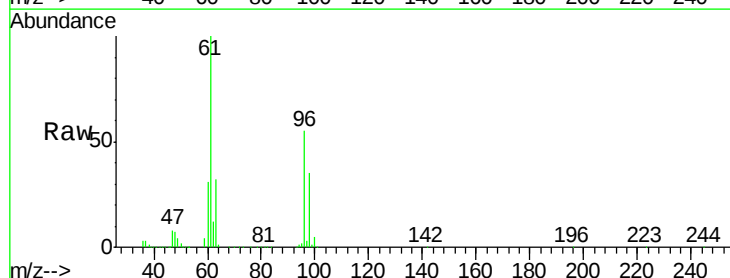
RT: 4.90 min Scan# 658

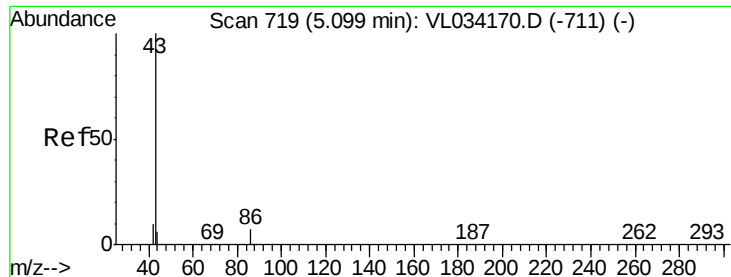
Delta R.T. -0.01 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Tgt Ion:	96	Resp:	460068
Ion Ratio		Lower	Upper
96	100		
61	180.7	145.5	218.3
98	62.7	49.9	74.9





#23

Vinyl Acetate

Concen: 9.711 ppbv

RT: 5.10 min Scan# 718

Delta R.T. -0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2258128

Ion Ratio Lower Upper

43 100

86 6.1 5.1 7.7

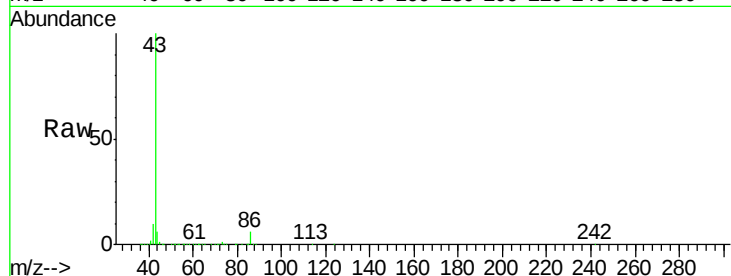
42 10.1 8.6 12.8

44 5.3 4.7 7.1

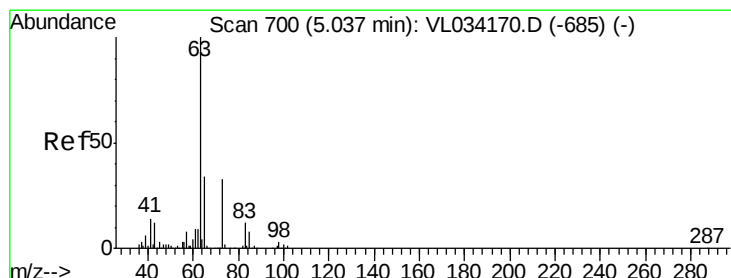
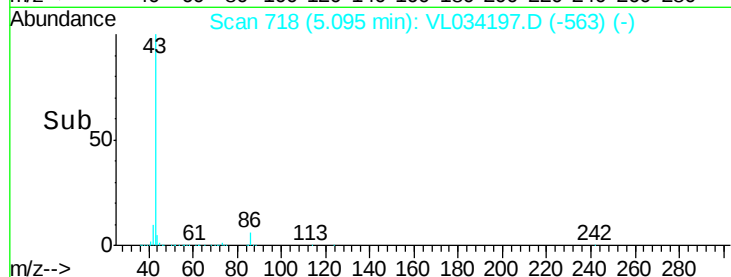
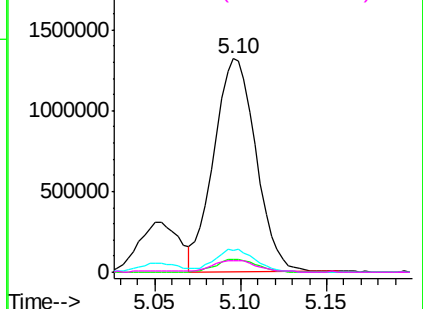
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.410 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.01 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

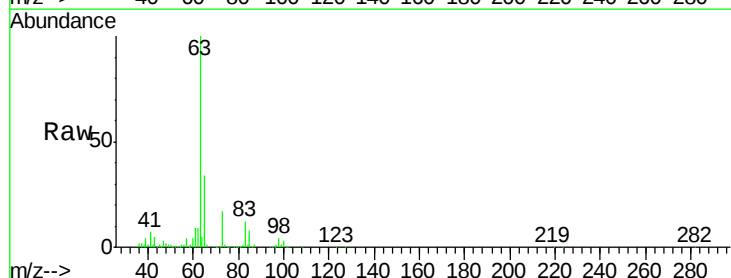
Tgt Ion: 63 Resp: 1473376

Ion Ratio Lower Upper

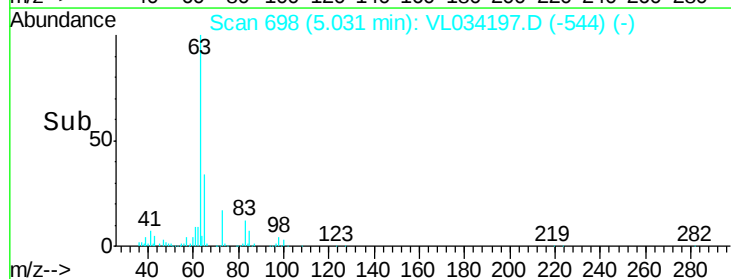
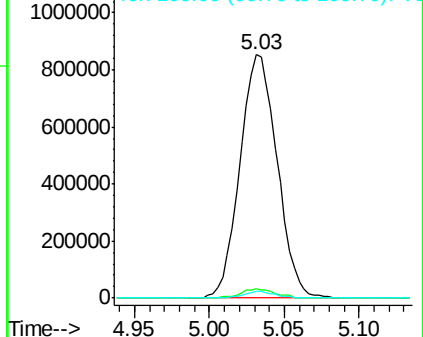
63 100

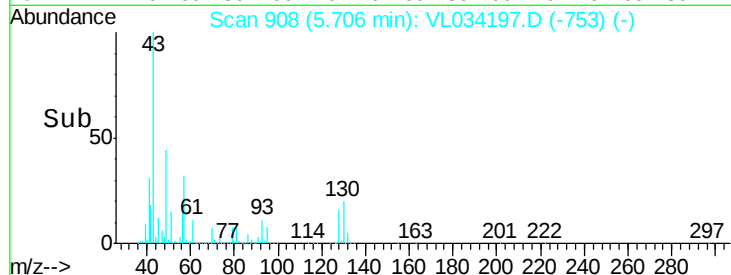
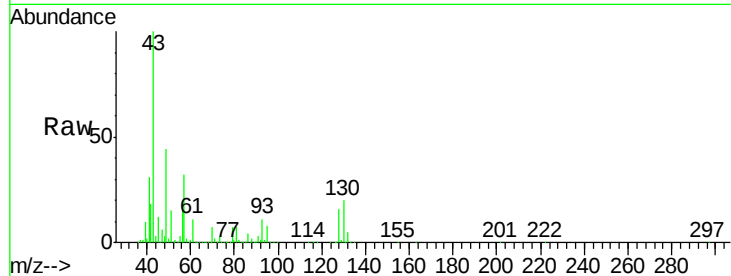
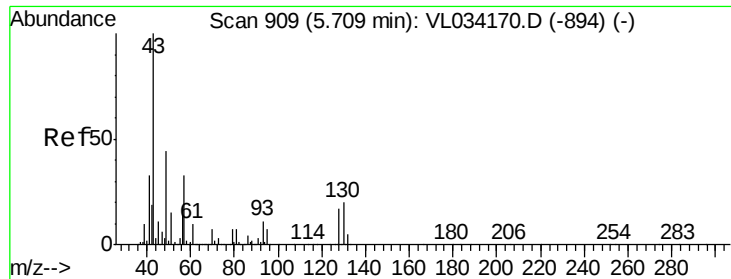
98 3.8 1.8 5.3

100 2.6 1.0 3.0



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: 9.184 ppbv

RT: 5.71 min Scan# 908

Delta R.T. -0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Tot Ion: 43 Resp: 2740663

Ion Ratio Lower Upper

43 100

45 10.5 8.4 12.6

61 9.0 7.2 10.8

70 6.5 5.3 7.9

Instrument :

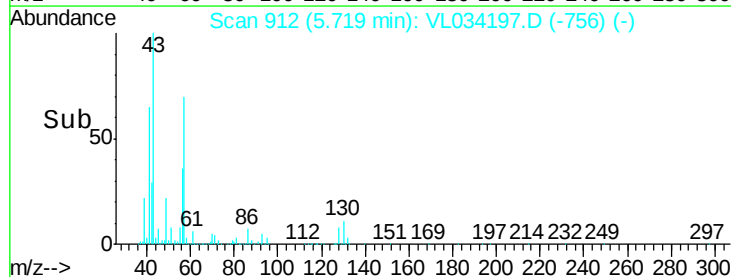
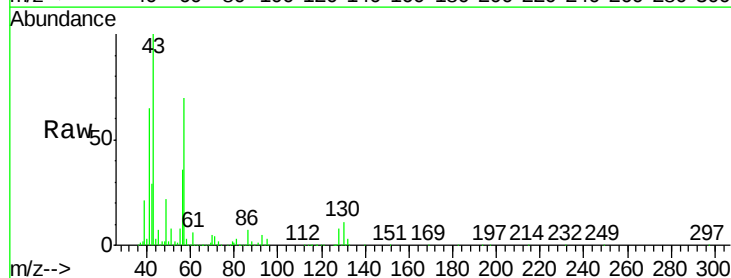
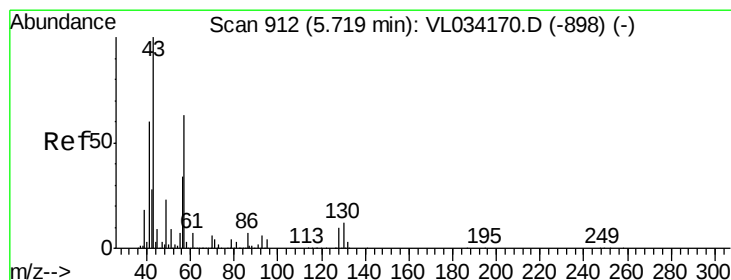
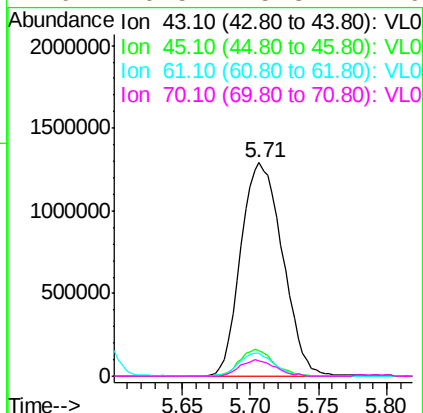
MSVOA_L

ClientSampleId :

VSTDCCC010

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#26

Hexane

Concen: 9.377 ppbv

RT: 5.72 min Scan# 912

Delta R.T. 0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Tgt Ion: 57 Resp: 1163969

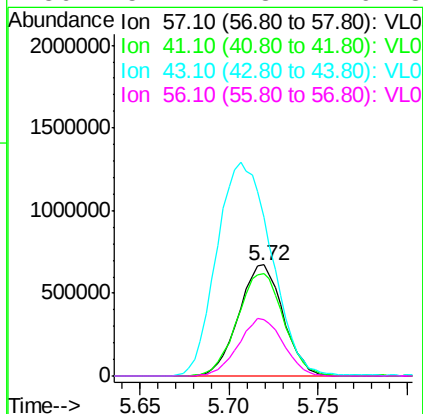
Ion Ratio Lower Upper

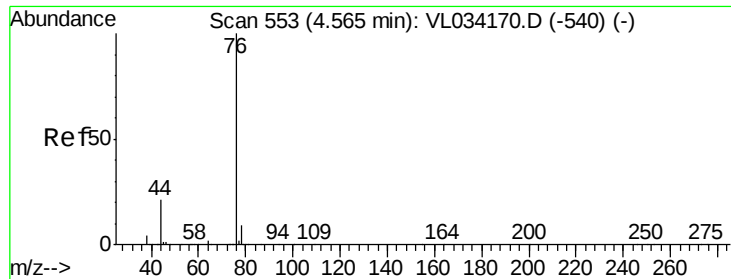
57 100

41 96.9 78.5 117.7

43 236.3 189.5 284.3

56 52.7 43.2 64.8





#27

Carbon Disulfide

Concen: 10.983 ppbv

RT: 4.56 min Scan# 552

Delta R.T. -0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1257354

Ion Ratio Lower Upper

76 100

44 21.6 17.6 26.4

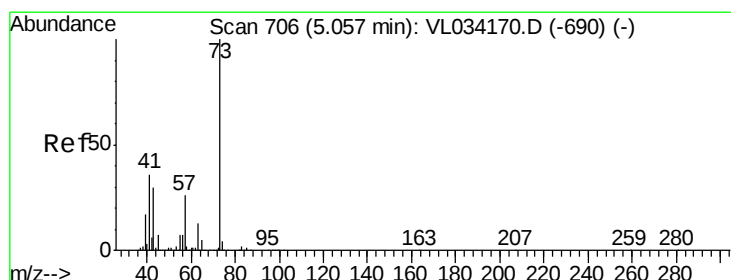
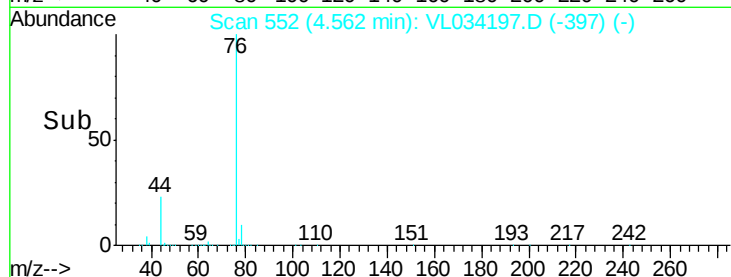
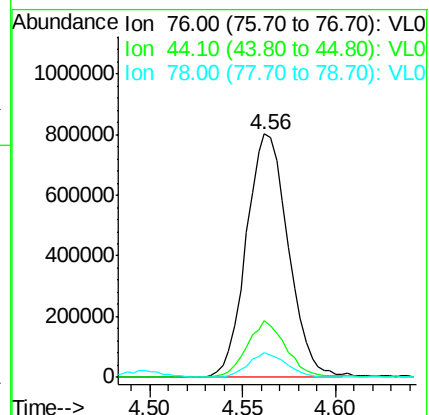
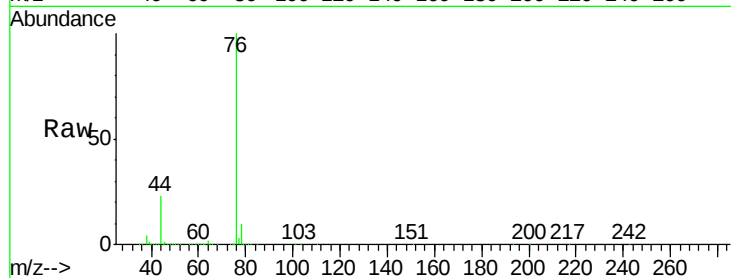
78 9.4 7.6 11.4

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#28

Methyl tert-Butyl Ether

Concen: 9.704 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.00 min

Lab File: VL034197.D

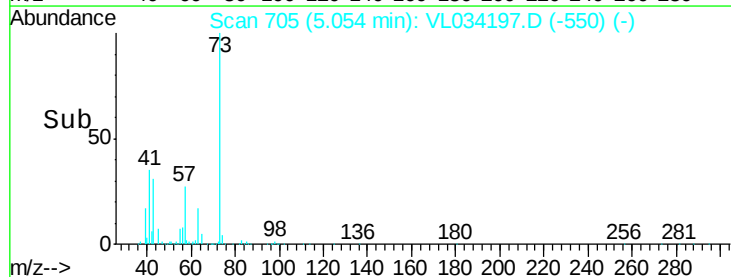
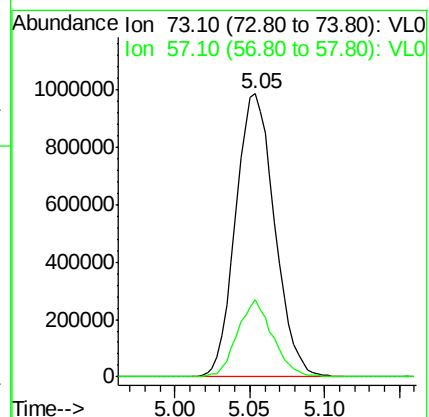
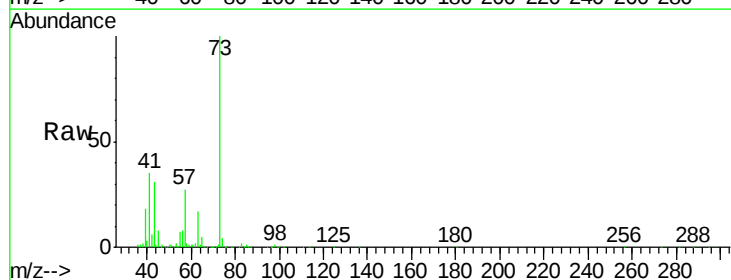
Acq: 24 Sep 2019 10:20

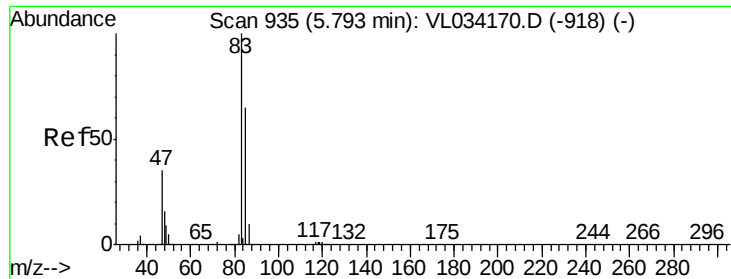
Tgt Ion: 73 Resp: 1789026

Ion Ratio Lower Upper

73 100

57 24.9 20.2 30.2





#29

Chloroform

Concen: 9.646 ppbv

RT: 5.79 min Scan# 933

Delta R.T. -0.01 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Tot Ion: 83 Resp: 1711037

Ion Ratio Lower Upper

83 100

85 66.3 52.3 78.5

Instrument :

MSVOA_L

ClientSampleId :

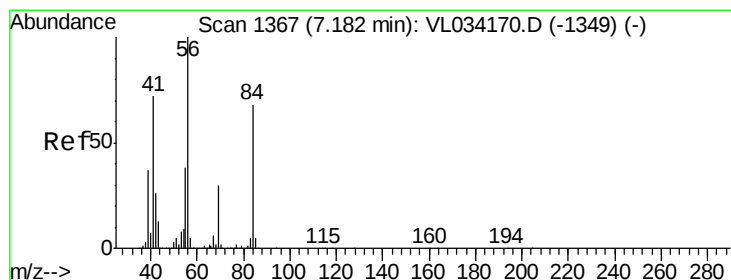
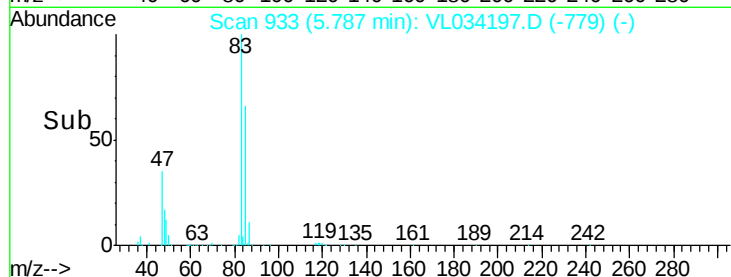
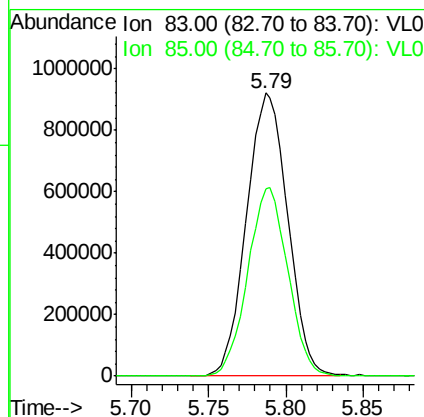
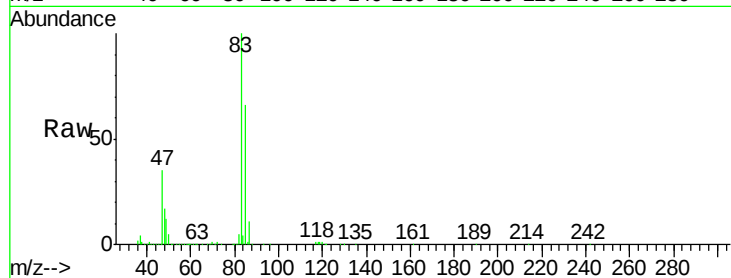
VSTDCCC010

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#30

Cyclohexane

Concen: 9.758 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

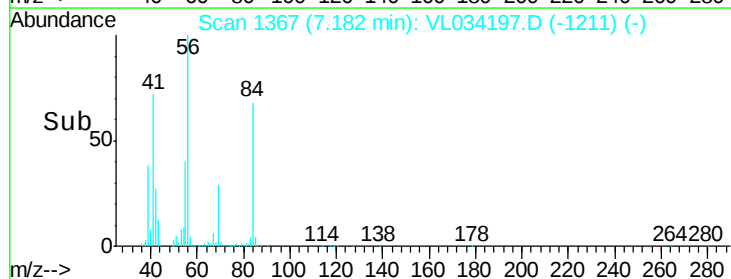
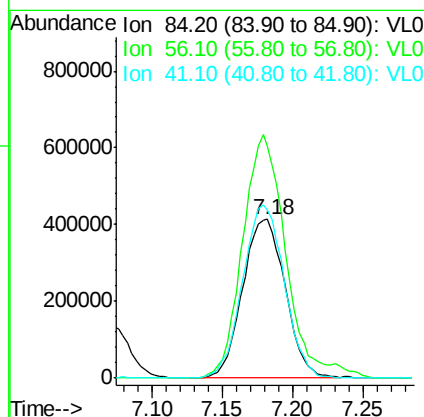
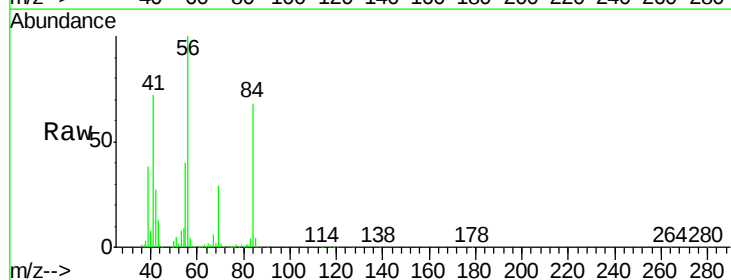
Tgt Ion: 84 Resp: 874464

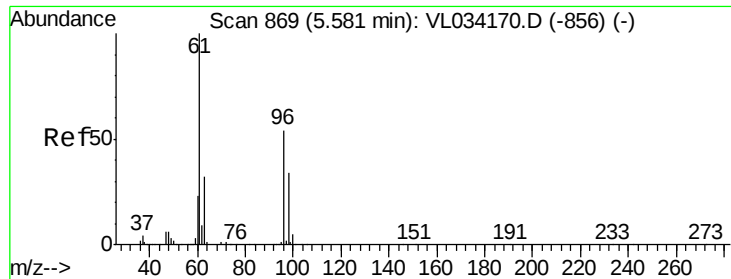
Ion Ratio Lower Upper

84 100

56 156.6 126.2 189.2

41 107.0 85.8 128.8





#31

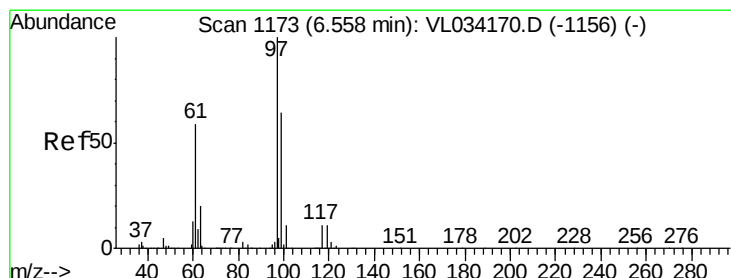
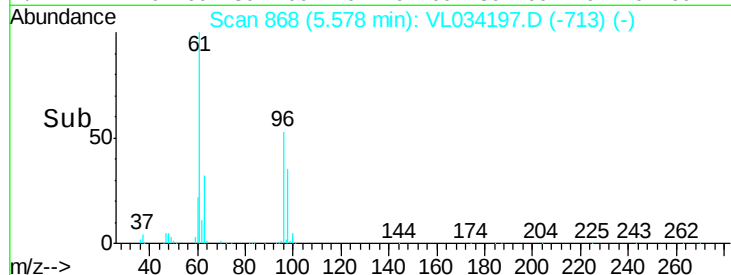
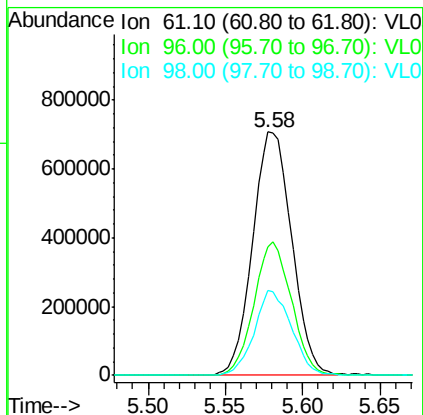
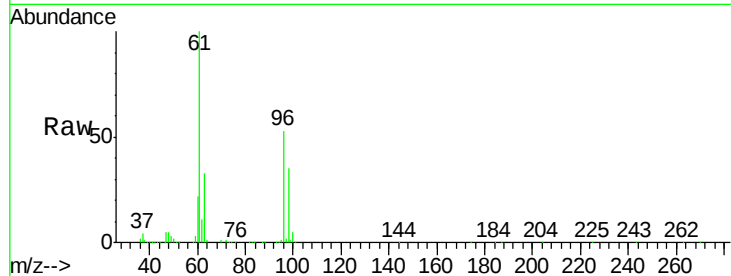
cis-1,2-Dichloroethene
 Concen: 9.860 ppbv
 RT: 5.58 min Scan# 868
 Delta R.T. -0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	52.8	43.0	64.4
98	35.0	27.2	40.8

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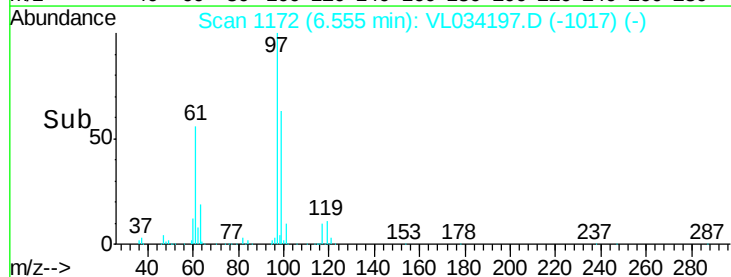
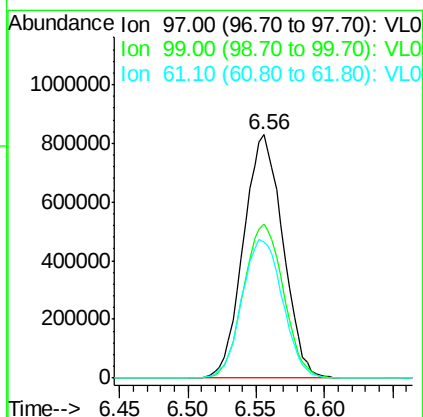
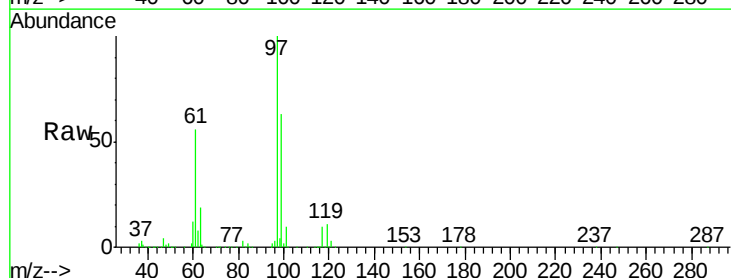
MMDadoda
 9/26/2019 12:39:27 AM

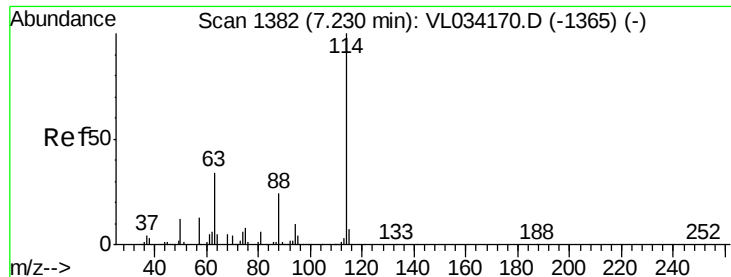


#32

1,1,1-Trichloroethane
 Concen: 9.723 ppbv
 RT: 6.56 min Scan# 1172
 Delta R.T. -0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.4	77.2
61	59.2	48.4	72.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.23 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:114 Resp: 2009697

Ion Ratio Lower Upper

114 100

63 34.2 27.8 41.6

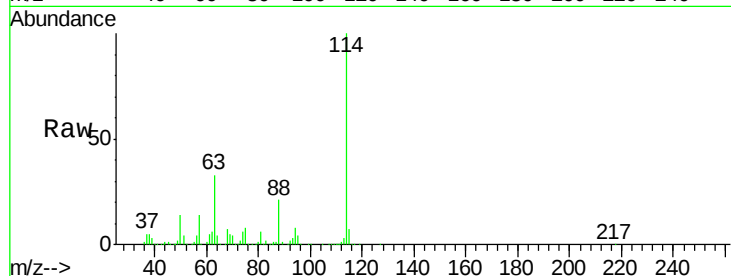
88 21.1 17.1 25.7

Manual Integrations

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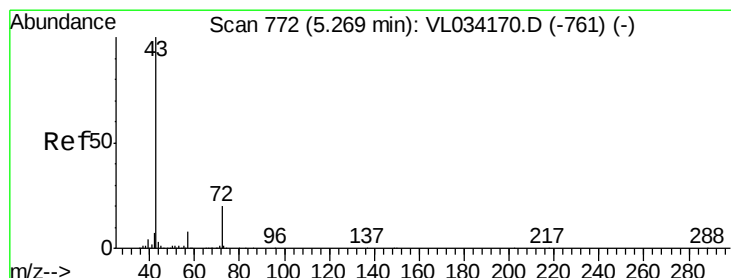
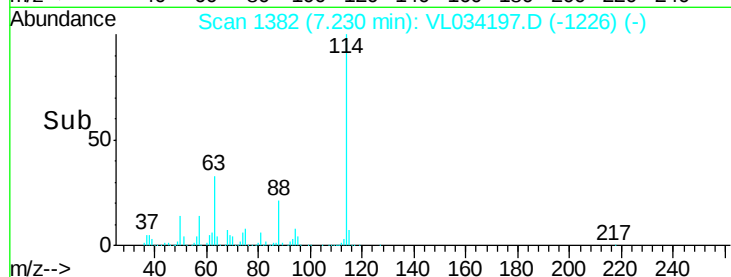
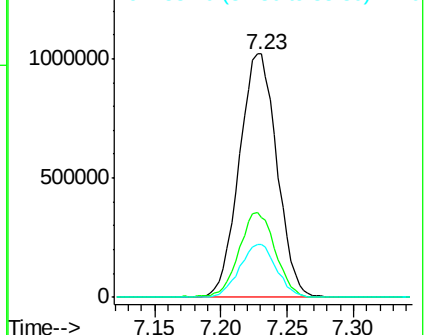
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.407 ppbv

RT: 5.27 min Scan# 772

Delta R.T. 0.00 min

Lab File: VL034197.D

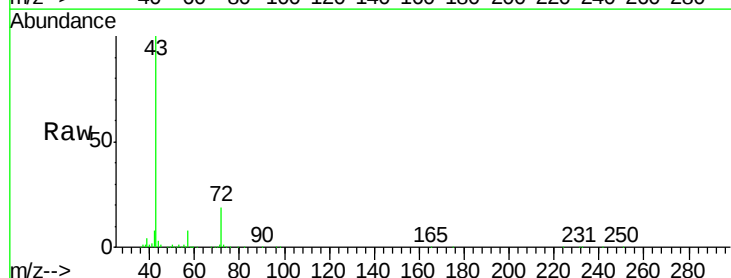
Acq: 24 Sep 2019 10:20

Tgt Ion: 43 Resp: 1930258

Ion Ratio Lower Upper

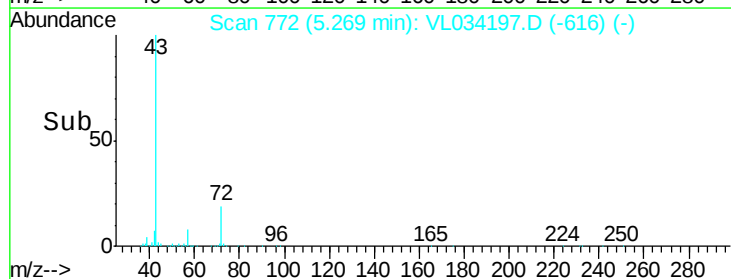
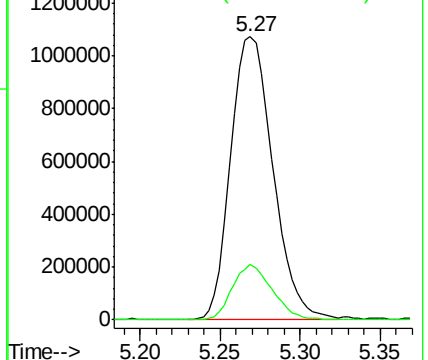
43 100

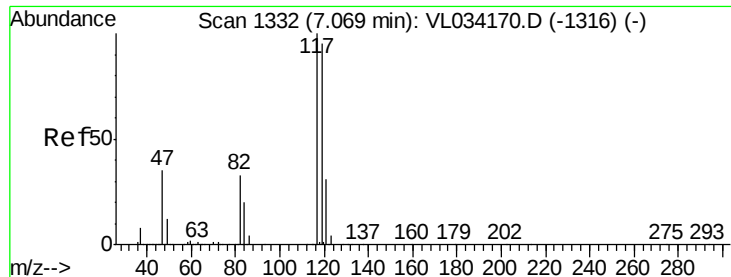
72 18.7 15.0 22.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.883 ppbv

RT: 7.07 min Scan# 1331

Delta R.T. -0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1650151

Ion Ratio Lower Upper

117 100

119 93.0 75.8 113.6

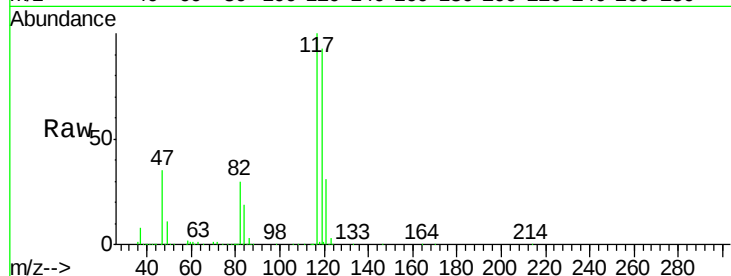
121 30.9 25.0 37.6

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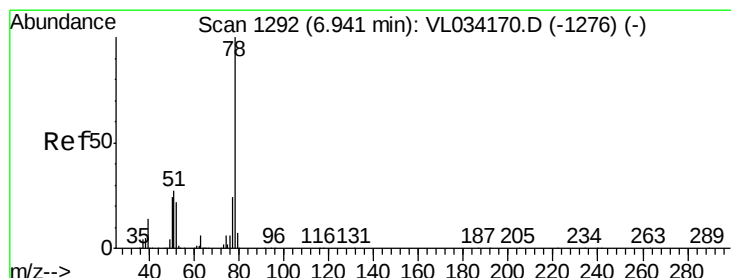
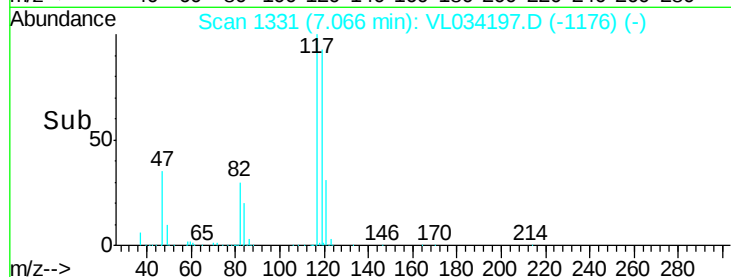
Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

7.07

Time-->



#36

Benzene

Concen: 9.480 ppbv

RT: 6.94 min Scan# 1291

Delta R.T. -0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

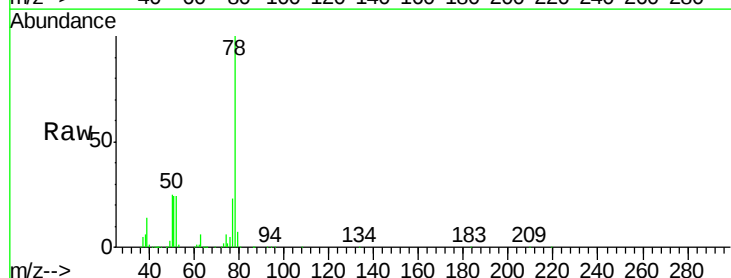
Tgt Ion: 78 Resp: 2104256

Ion Ratio Lower Upper

78 100

77 23.1 19.0 28.4

50 25.4 18.9 28.3



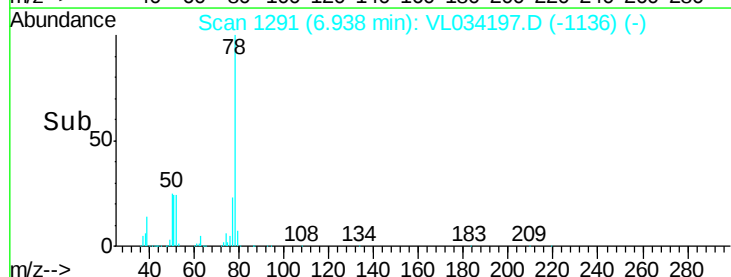
Abundance Ion 78.10 (77.80 to 78.80): VL0

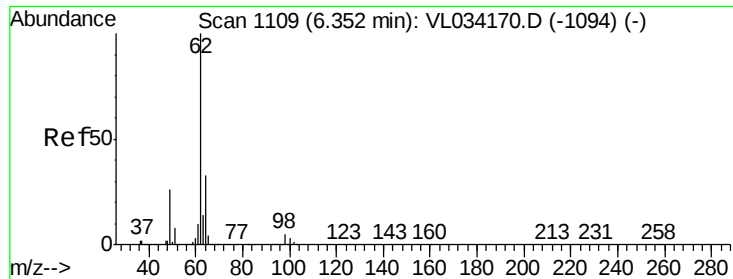
Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

6.94

Time-->





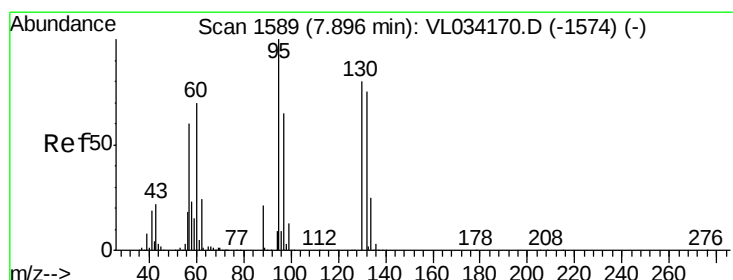
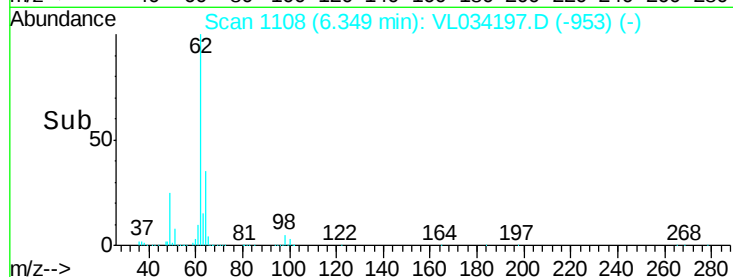
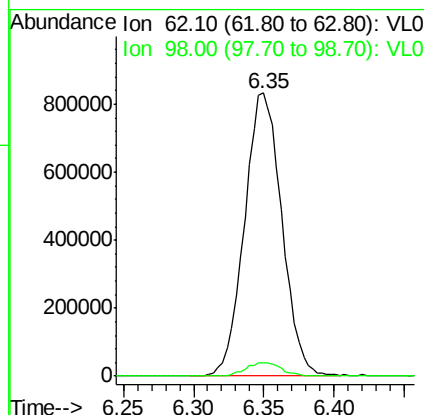
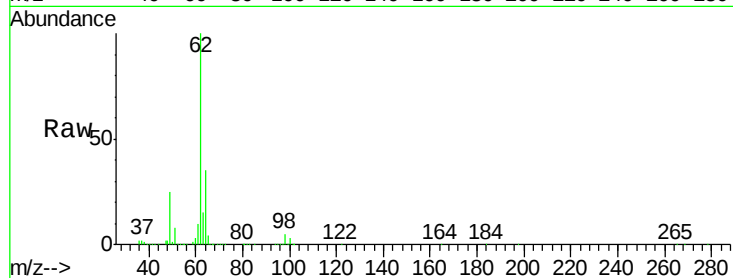
#37
 1,2-Dichloroethane
 Concen: 9.789 ppbv
 RT: 6.35 min Scan# 1108
 Delta R.T. -0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1545403
 Ion Ratio Lower Upper
 62 100
 98 4.7 3.8 5.8

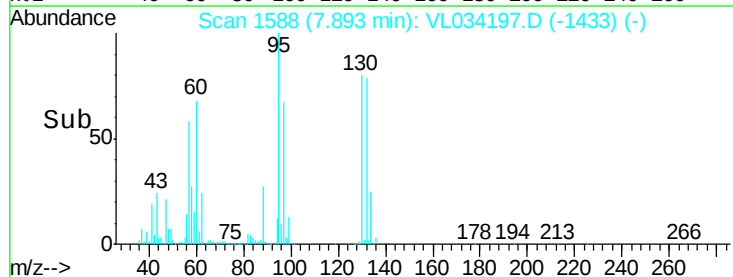
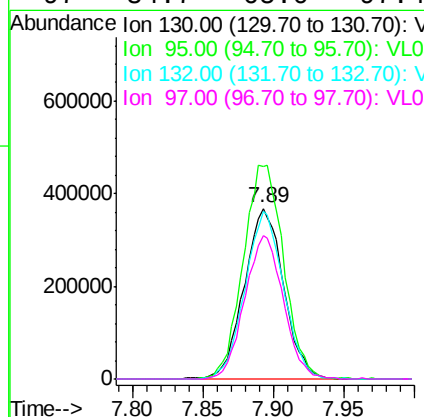
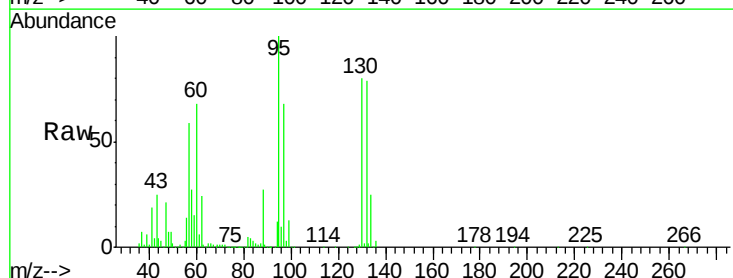
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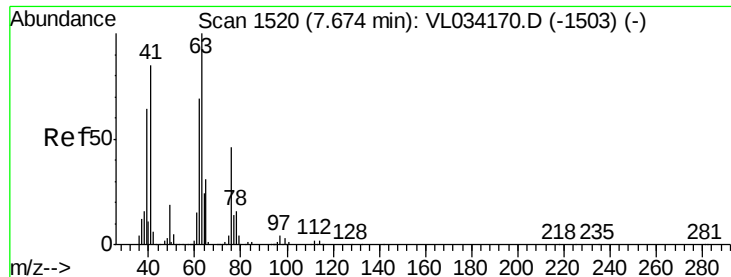
MMDadoda
 9/26/2019 12:39:27 AM



#38
 Trichloroethene
 Concen: 9.008 ppbv
 RT: 7.89 min Scan# 1588
 Delta R.T. -0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Tgt Ion: 130 Resp: 714375
 Ion Ratio Lower Upper
 130 100
 95 125.2 99.8 149.6
 132 98.7 75.2 112.8
 97 84.7 65.0 97.4





#39

1,2-Dichloropropane

Concen: 9.456 ppbv

RT: 7.67 min Scan# 1519

Delta R.T. -0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

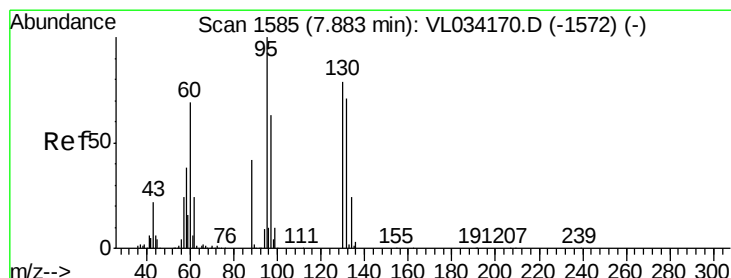
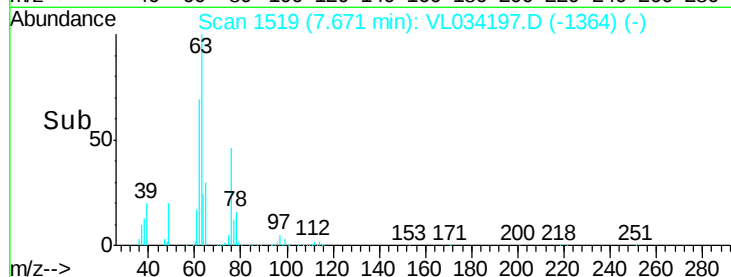
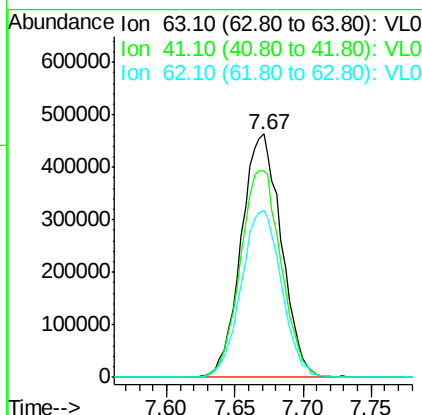
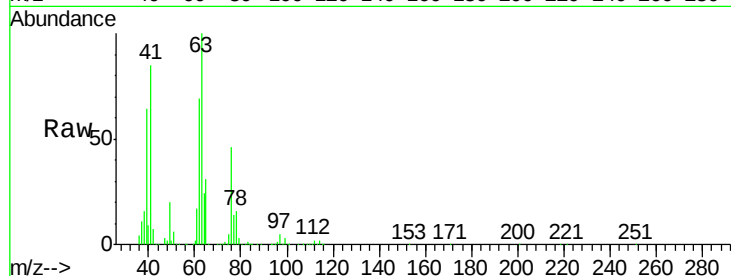
ClientSampleId :

VSTDCCC010

Tot Ion:	63	Resp:	943076
Ion Ratio	Lower	Upper	
63	100		
41	84.9	68.4	102.6
62	68.6	55.4	83.2

Manual Integrations
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#40

1,4-Dioxane

Concen: 10.198 ppbv

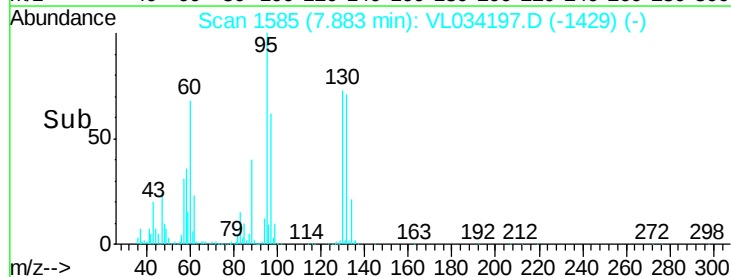
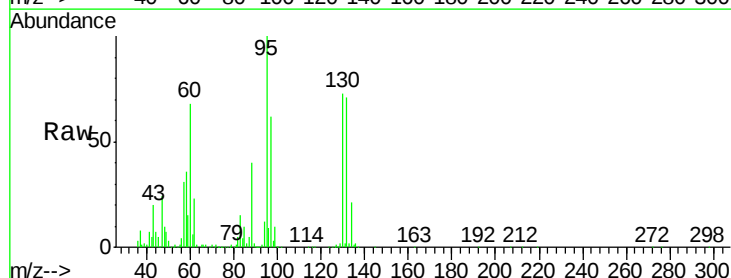
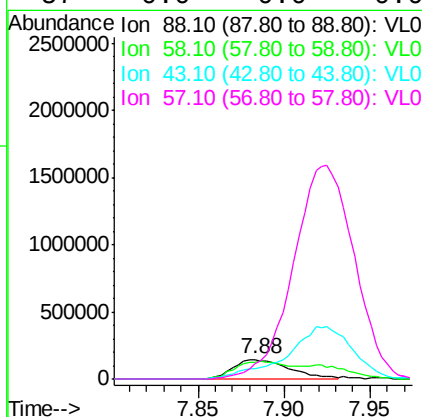
RT: 7.88 min Scan# 1585

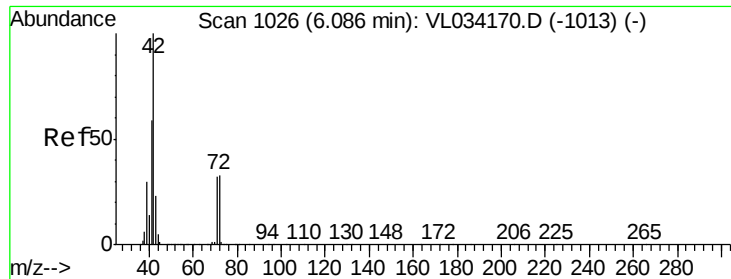
Delta R.T. 0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Tgt Ion:	88	Resp:	329123
Ion Ratio	Lower	Upper	
88	100		
58	148.7	131.8	197.6
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 9.970 ppbv

RT: 6.08 min Scan# 1025

Delta R.T. -0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

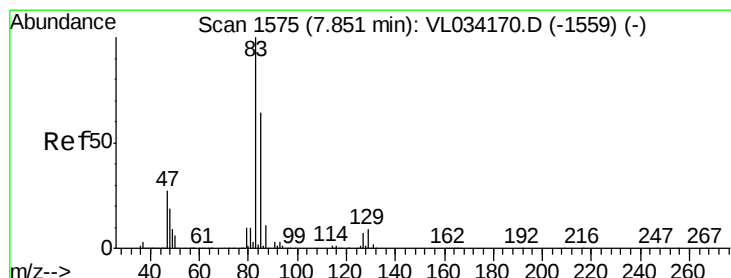
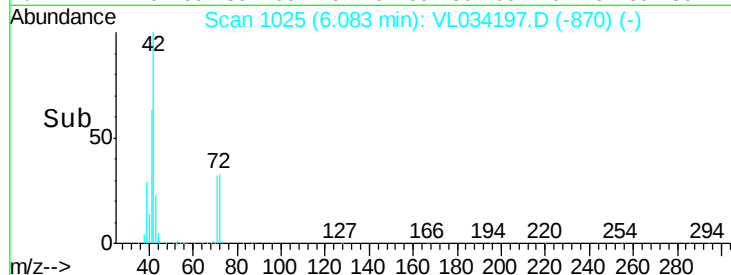
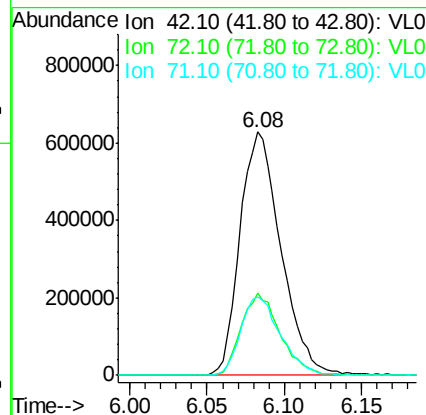
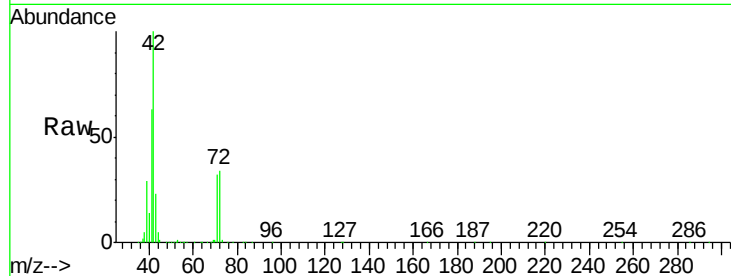
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	1152244
Ion	Ratio	Lower	Upper
42	100		
72	32.4	26.6	40.0
71	31.6	25.1	37.7

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#42

Bromodichloromethane

Concen: 10.011 ppbv

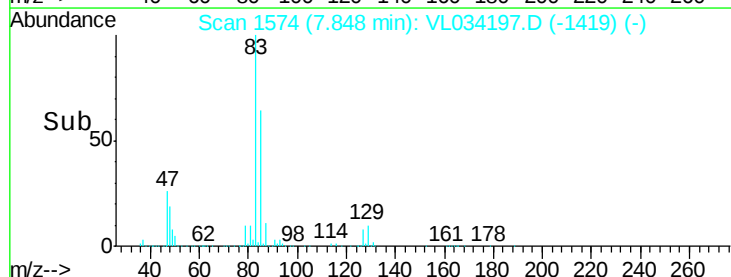
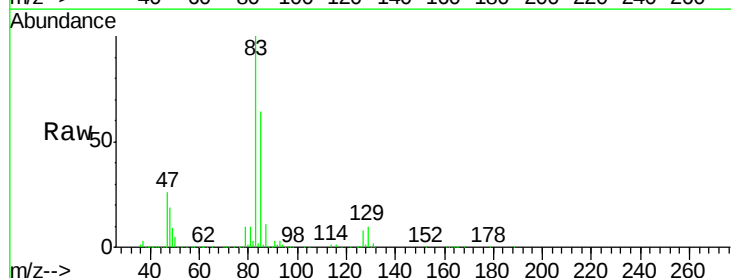
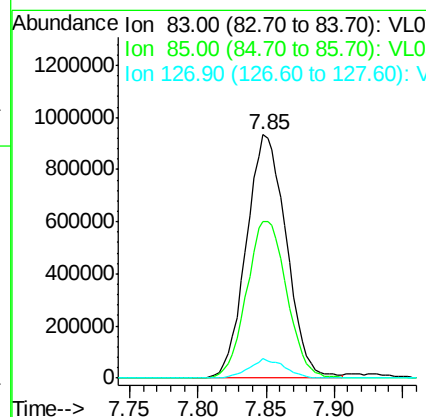
RT: 7.85 min Scan# 1574

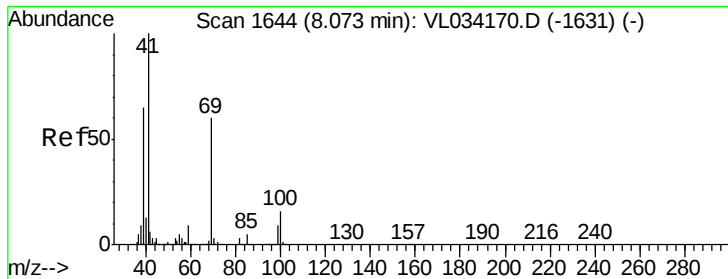
Delta R.T. -0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Tgt Ion:	83	Resp:	1896764
Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.4	77.0
127	8.3	5.5	8.3#





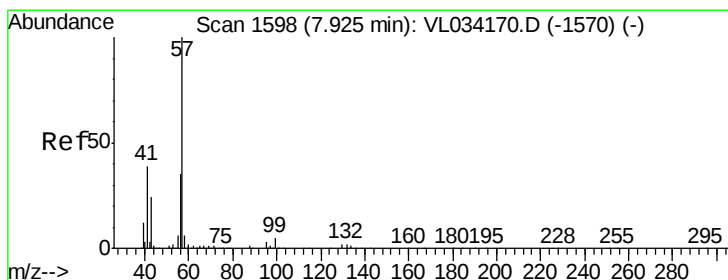
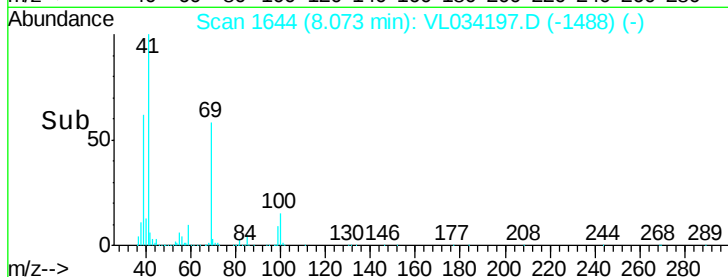
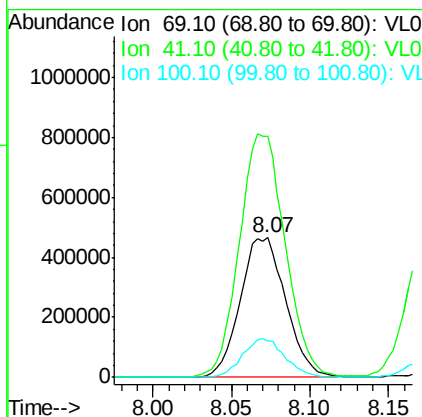
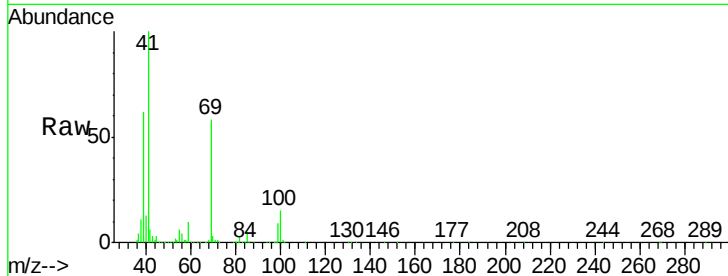
#43
Methvl Methacrylate
Concen: 10.278 ppbv m
RT: 8.07 min Scan# 1644
Delta R.T. 0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	140.4	210.6#
100	26.2	21.9	32.9

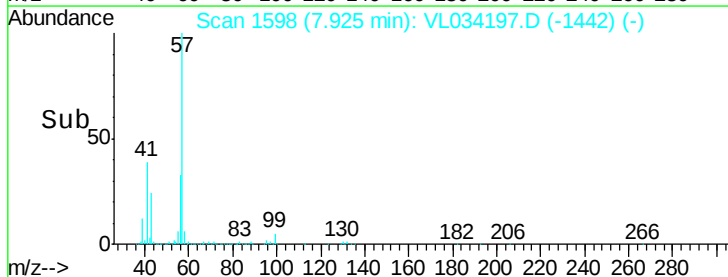
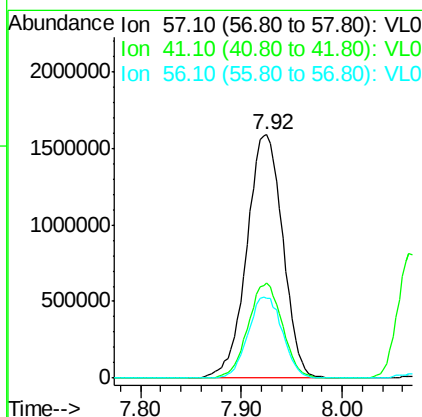
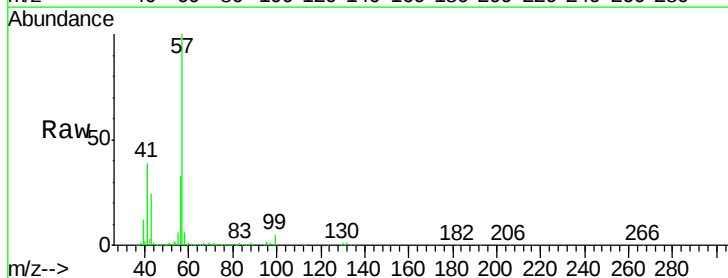
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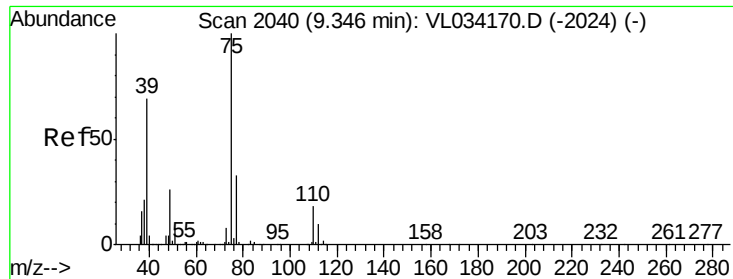
MMDadoda
9/26/2019 12:39:27 AM



#44
2,2,4-Trimethylpentane
Concen: 9.188 ppbv
RT: 7.92 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Tgt Ion	Ratio	Lower	Upper
57	100		
41	37.0	29.8	44.6
56	32.0	25.9	38.9





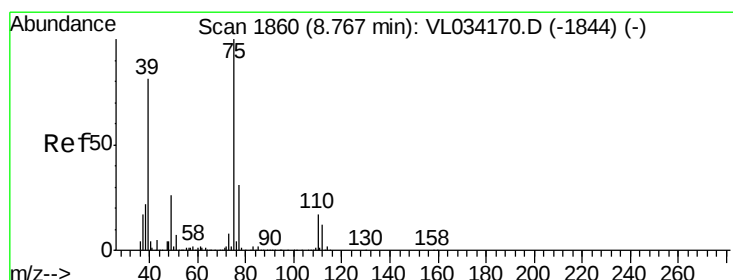
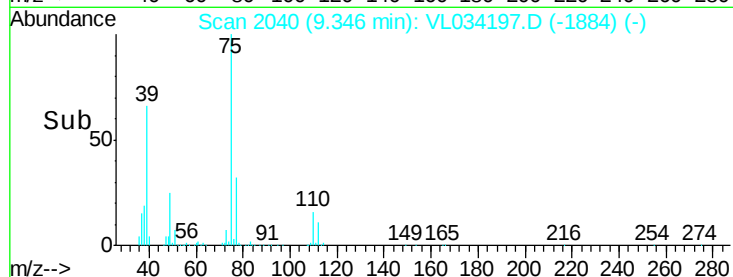
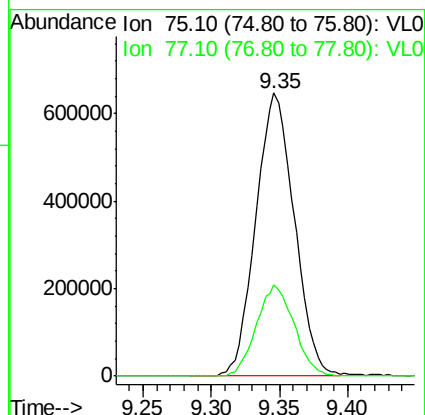
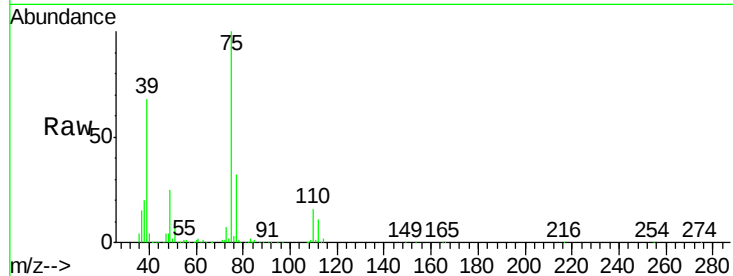
#45
t-1,3-Dichloropropene
Concen: 11.699 ppbv
RT: 9.35 min Scan# 2040
Delta R.T. 0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1268340
Ion Ratio Lower Upper
75 100
77 32.5 26.2 39.2

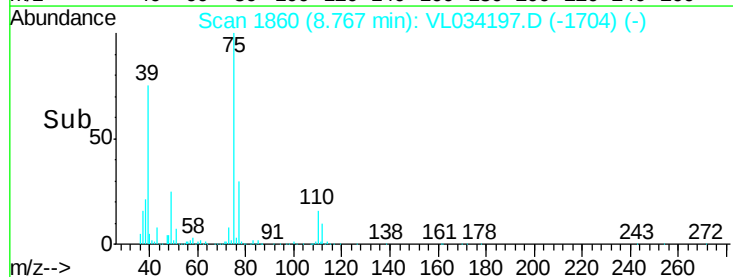
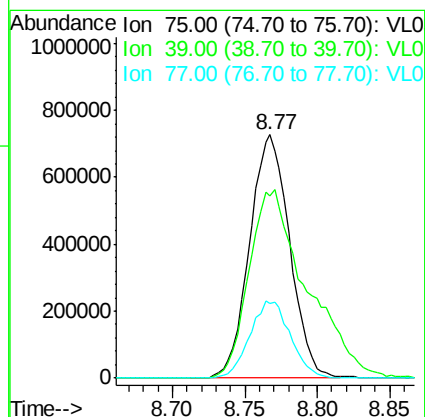
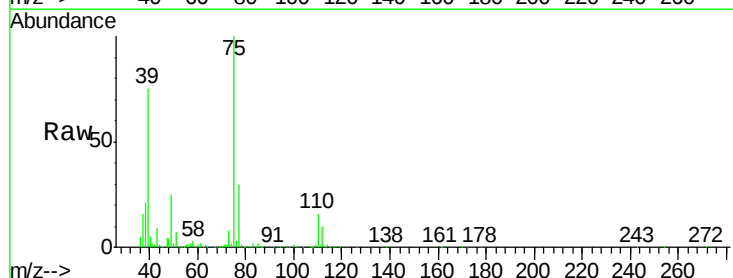
Manual Integrations
APPROVED

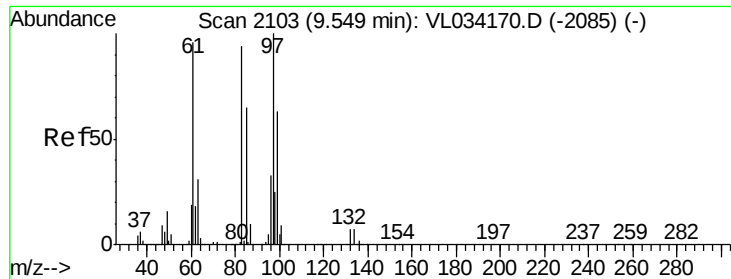
MMDadoda
9/26/2019 12:39:27 AM



#46
cis-1,3-Dichloropropene
Concen: 10.715 ppbv
RT: 8.77 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Tgt Ion: 75 Resp: 1397360
Ion Ratio Lower Upper
75 100
39 75.0 65.0 97.4
77 30.5 24.5 36.7





#47

1,1,2-Trichloroethane

Concen: 9.403 ppbv

RT: 9.55 min Scan# 2103

Delta R.T. 0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

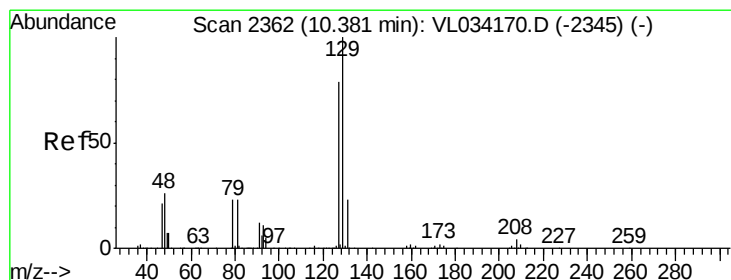
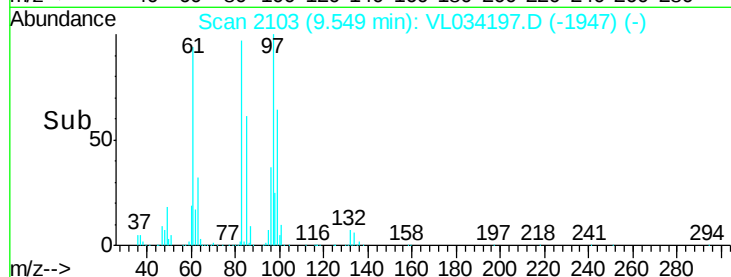
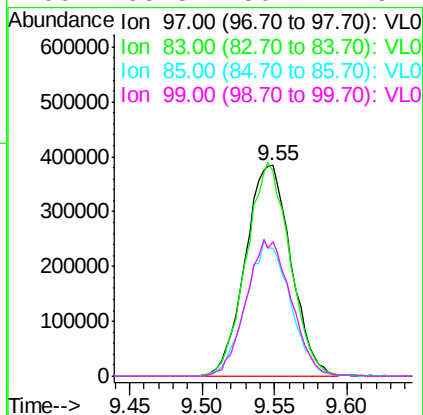
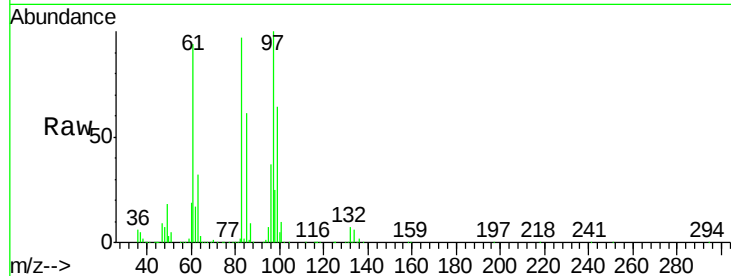
ClientSampleId :

VSTDCCC010

Tot Ion:	97	Resp:	842047
Ion Ratio	Lower	Upper	
97	100		
83	96.9	75.3	112.9
85	60.8	52.1	78.1
99	63.8	50.2	75.2

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#48

Dibromochloromethane

Concen: 10.118 ppbv

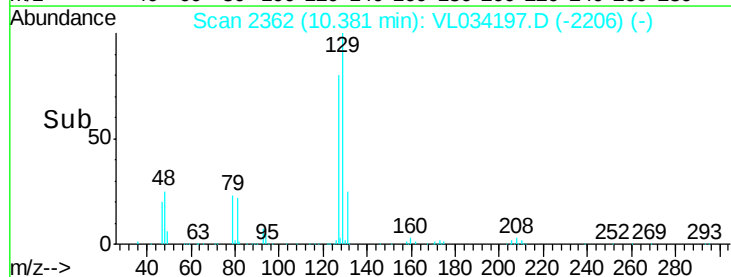
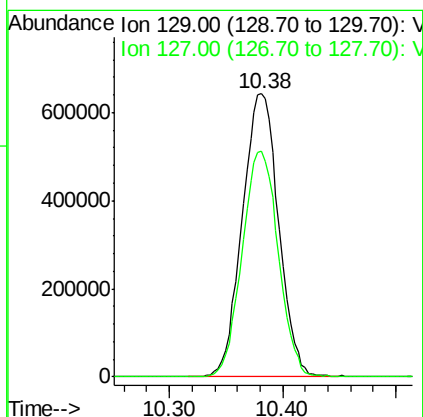
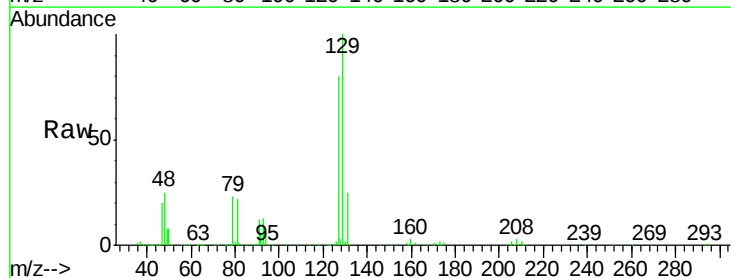
RT: 10.38 min Scan# 2362

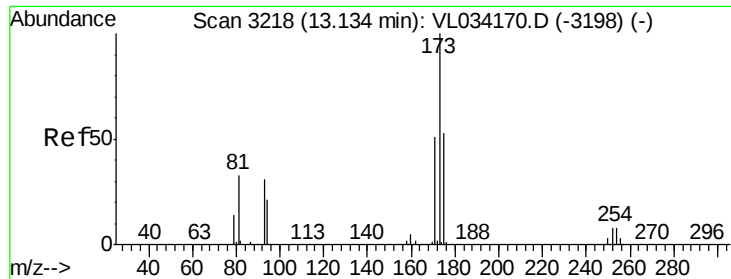
Delta R.T. 0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Tgt Ion:	129	Resp:	1436150
Ion Ratio	Lower	Upper	
129	100		
127	79.6	39.2	117.6





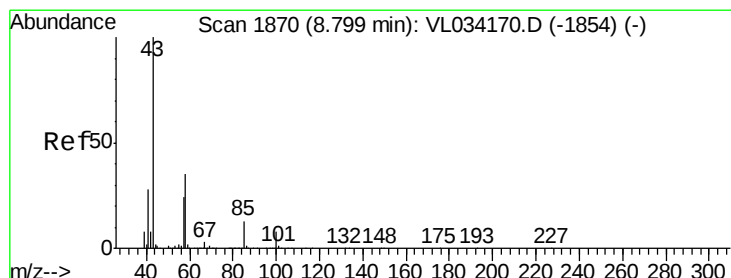
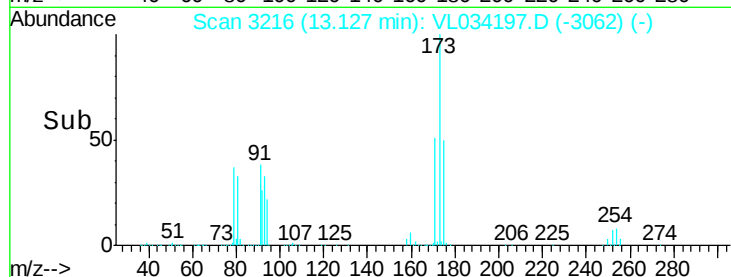
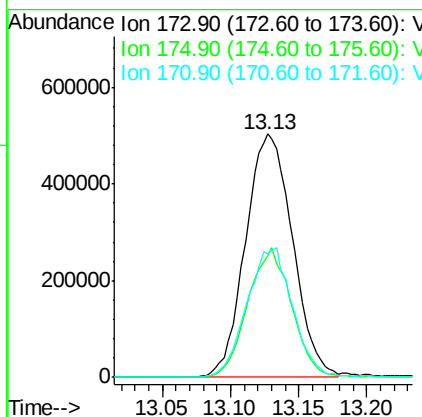
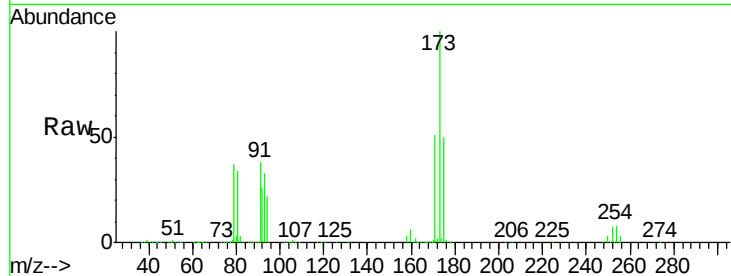
#49
Bromoform
Concen: 10.484 ppbv
RT: 13.13 min Scan# 3216
Delta R.T. -0.01 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.2	40.3	60.5
171	52.3	42.0	63.0

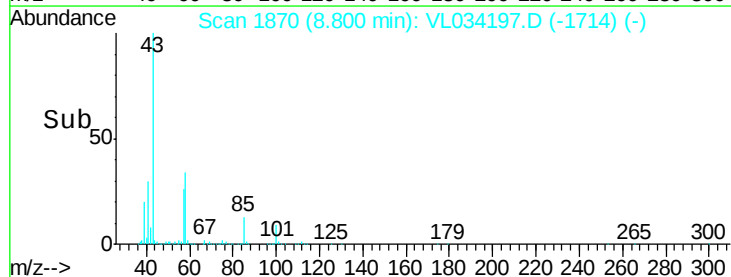
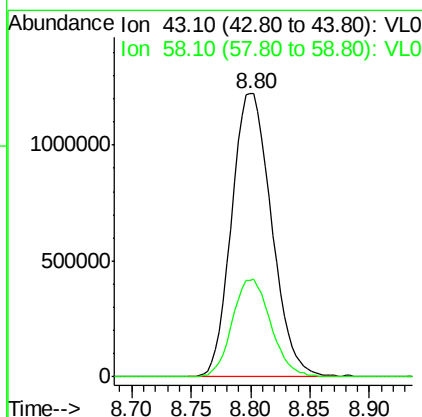
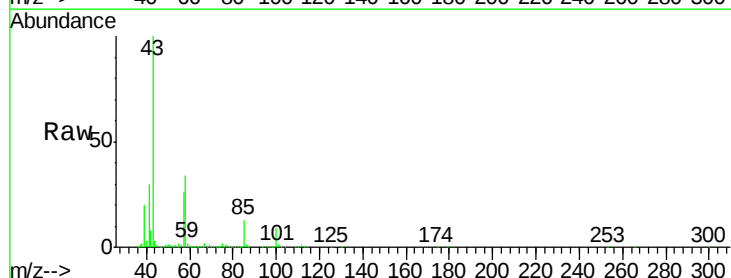
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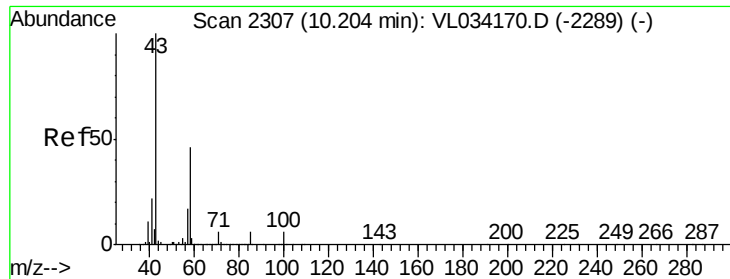
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#50
4-Methyl-2-Pentanone
Concen: 9.544 ppbv
RT: 8.80 min Scan# 1870
Delta R.T. 0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.5	27.6	41.4





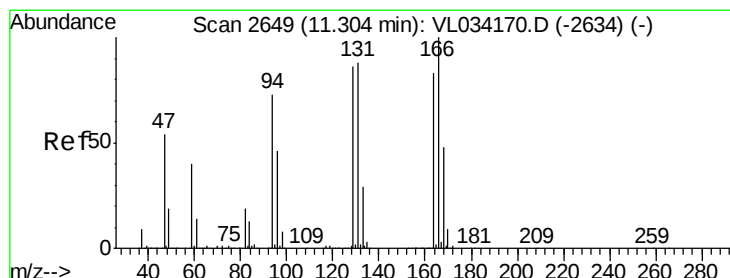
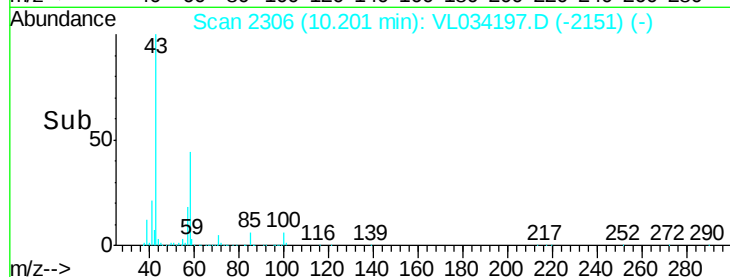
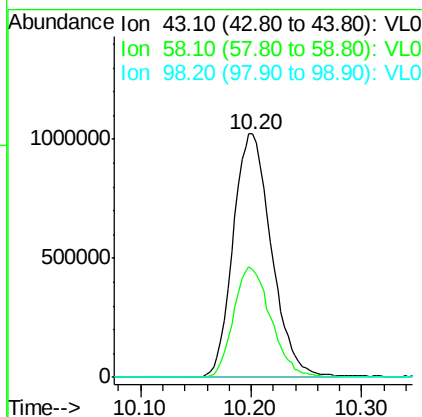
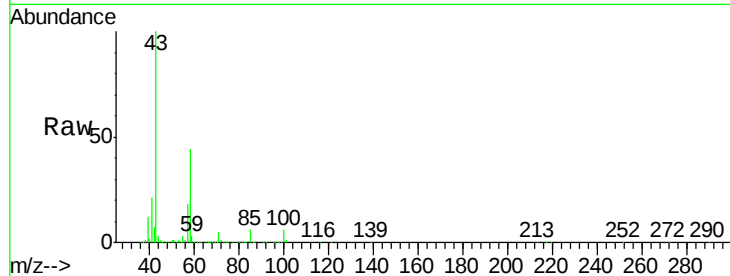
#51
2-Hexanone
Concen: 9.834 ppbv
RT: 10.20 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion: 43 Resp: 2464611
Ion Ratio Lower Upper
43 100
58 44.5 36.2 54.4
98 0.1 0.2 0.2#

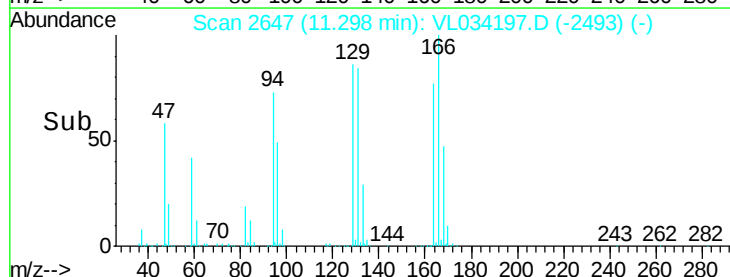
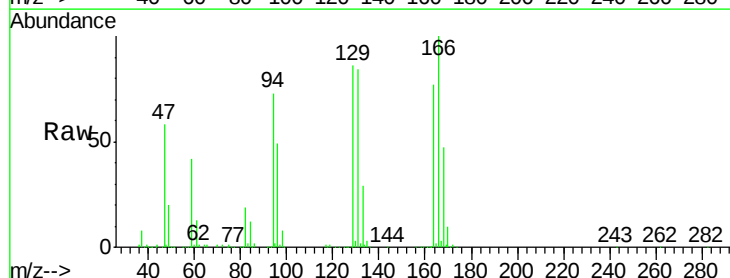
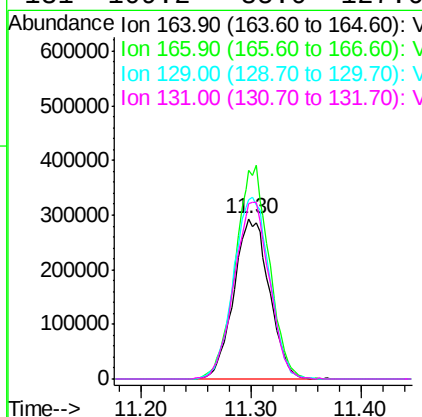
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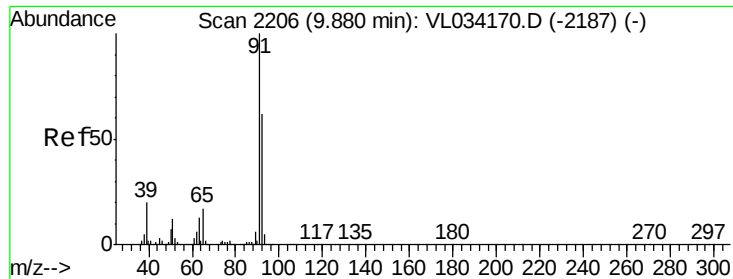
MMDadoda
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#52
Tetrachloroethene
Concen: 8.965 ppbv m
RT: 11.30 min Scan# 2647
Delta R.T. -0.01 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Tgt Ion: 164 Resp: 657442
Ion Ratio Lower Upper
164 100
166 129.9 96.7 145.1
129 111.4 82.8 124.2
131 109.2 85.0 127.6





#53

Toluene

Concen: 9.637 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2337826

Ion Ratio Lower Upper

91 100

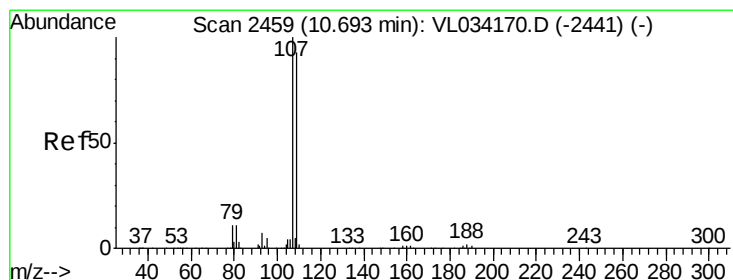
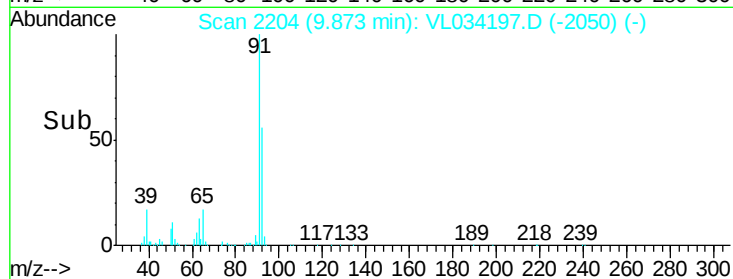
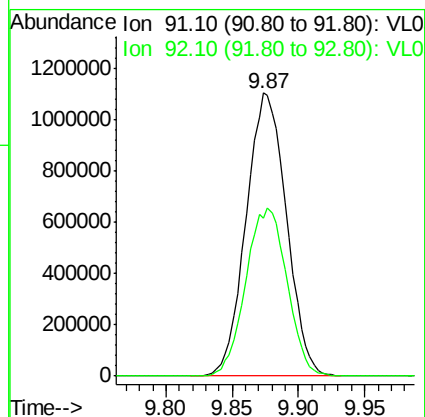
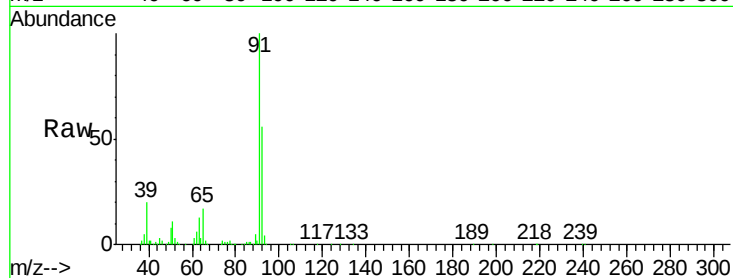
92 60.8 49.0 73.6

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#54

1,2-Dibromoethane

Concen: 9.629 ppbv

RT: 10.69 min Scan# 2457

Delta R.T. -0.01 min

Lab File: VL034197.D

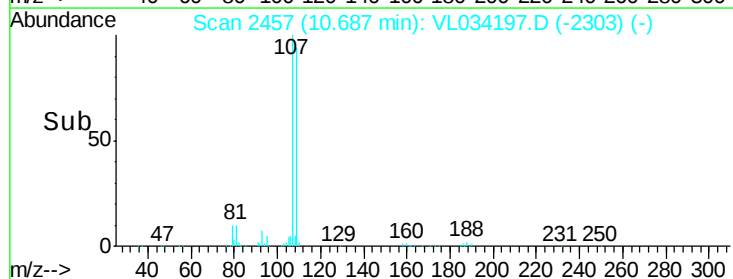
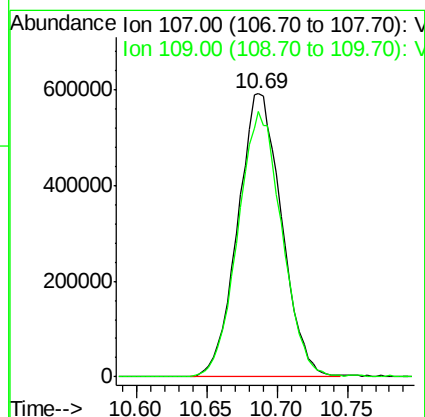
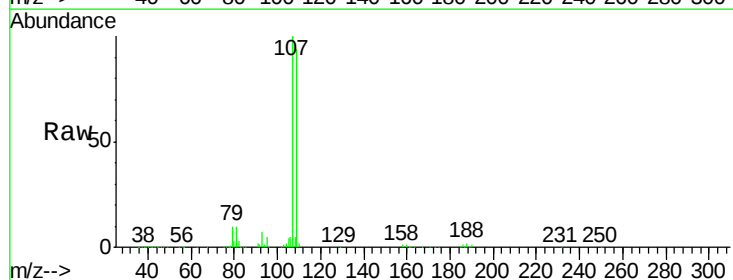
Acq: 24 Sep 2019 10:20

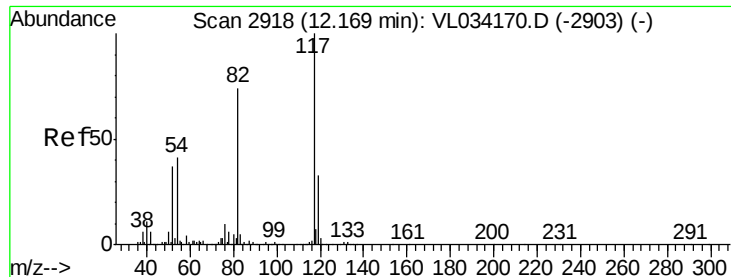
Tgt Ion: 107 Resp: 1282312

Ion Ratio Lower Upper

107 100

109 93.6 74.5 111.7





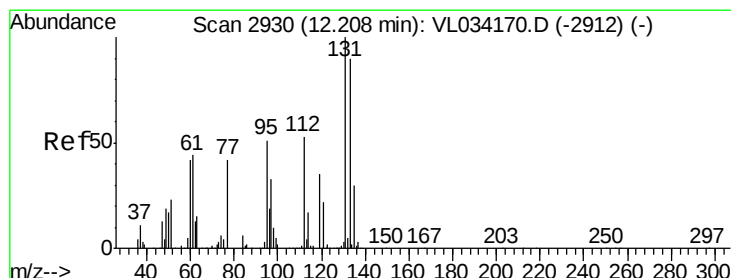
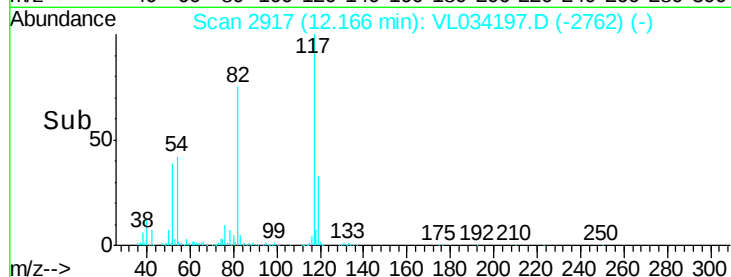
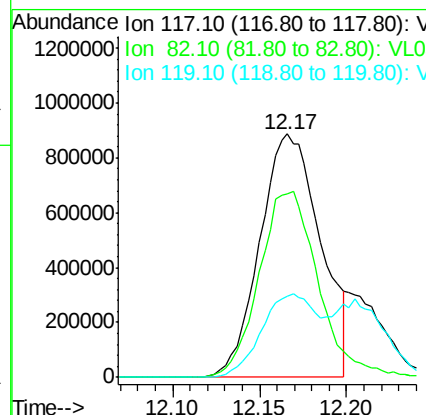
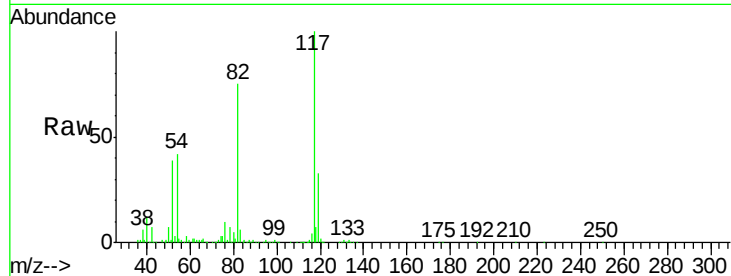
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. -0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	75.1	58.2	87.4
119	34.3	23.7	35.5

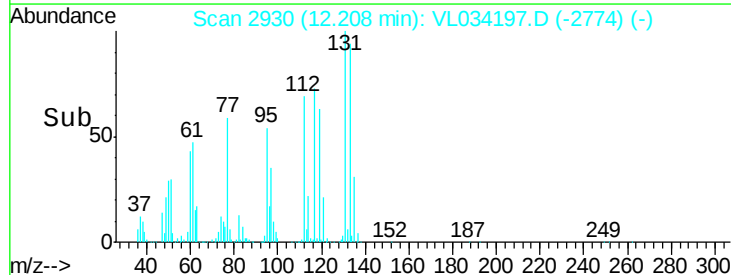
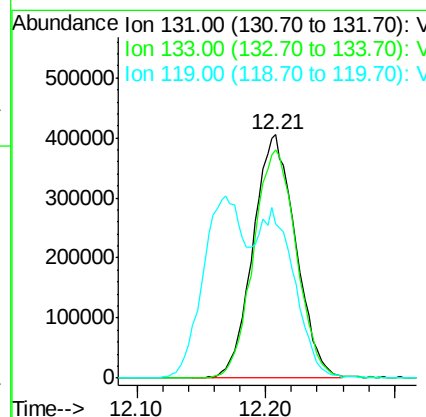
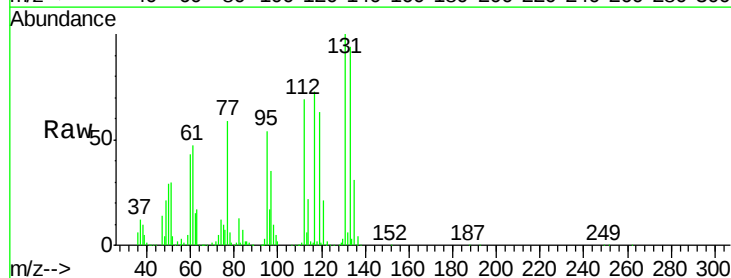
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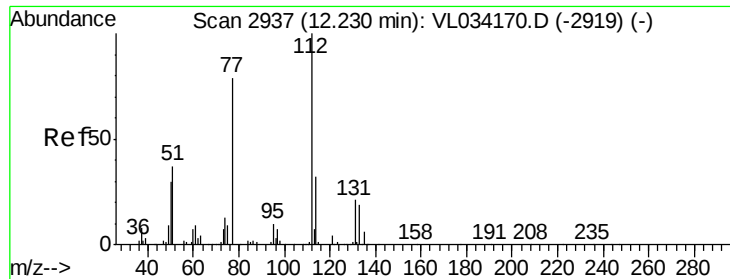
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.731 ppbv
RT: 12.21 min Scan# 2930
Delta R.T. 0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.9	75.1	112.7
119	60.9	47.4	71.0





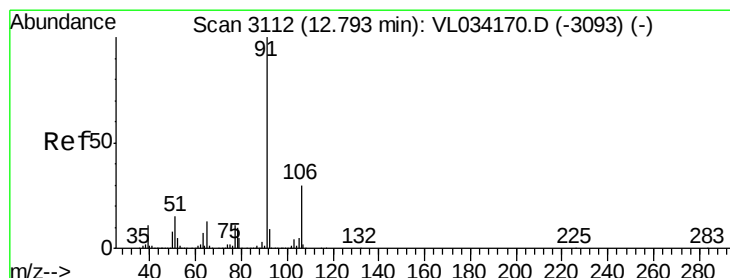
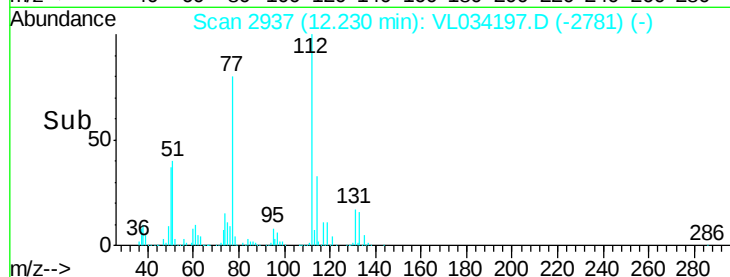
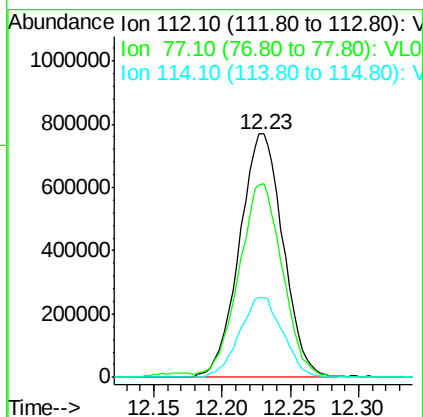
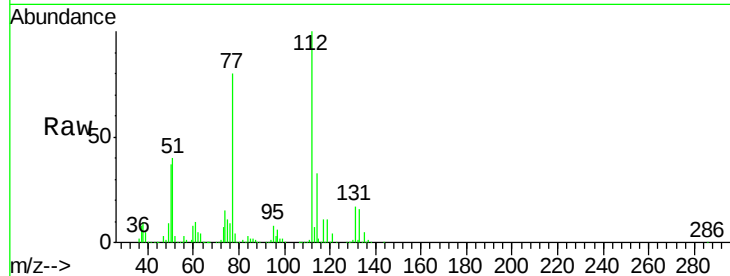
#57
Chlorobenzene
Concen: 9.108 ppbv
RT: 12.23 min Scan# 2937
Delta R.T. 0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
112	100		
77	79.1	64.3	96.5
114	32.6	28.9	35.3

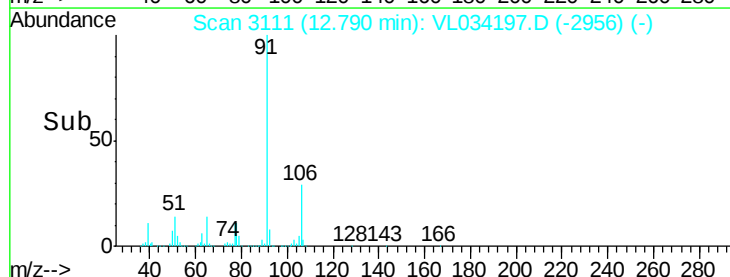
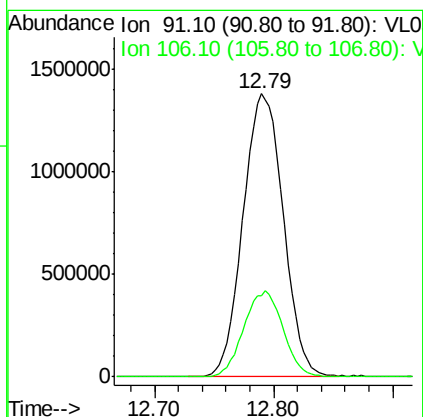
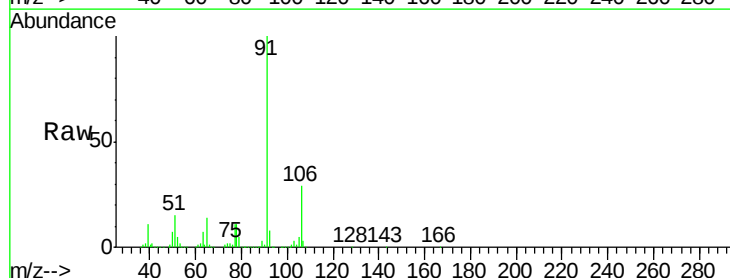
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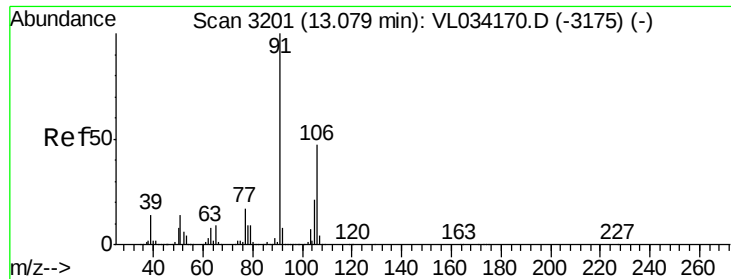
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#58
Ethyl Benzene
Concen: 9.348 ppbv
RT: 12.79 min Scan# 3111
Delta R.T. -0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.8	24.2	36.4





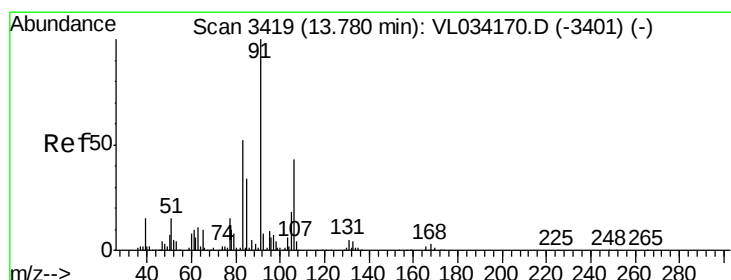
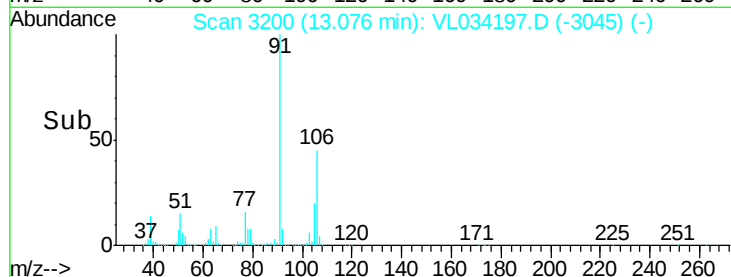
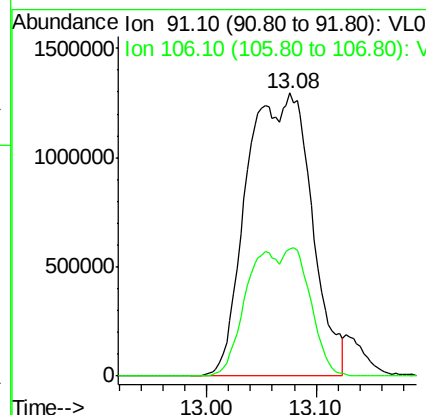
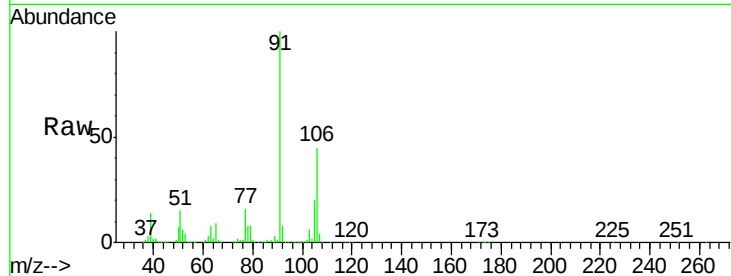
#59
m/p-Xylene
Concen: 18.563 ppbv m
RT: 13.08 min Scan# 3200
Delta R.T. -0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 5327138
Ion Ratio Lower Upper
91 100
106 43.2 35.5 53.3

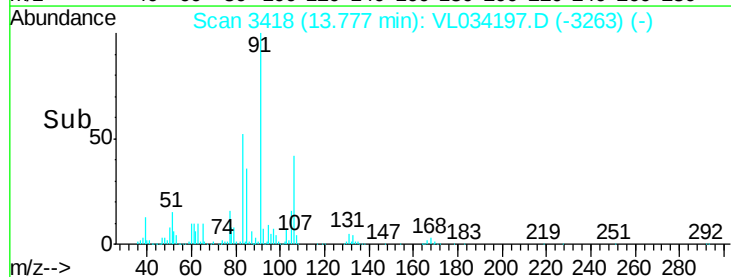
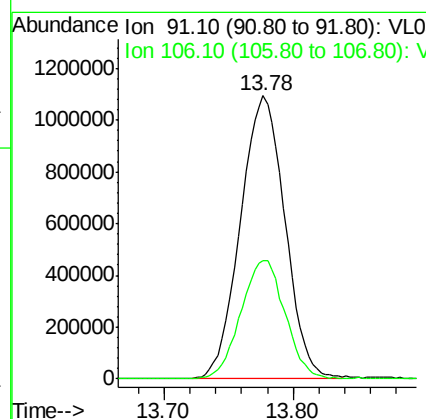
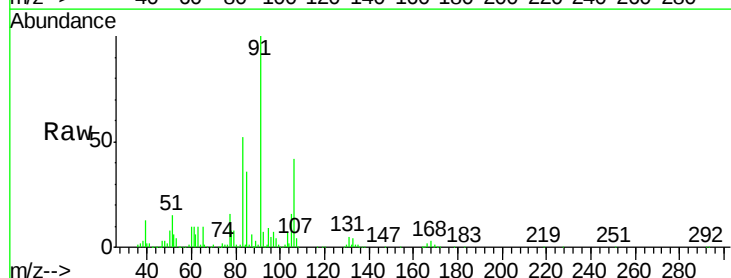
Manual Integrations
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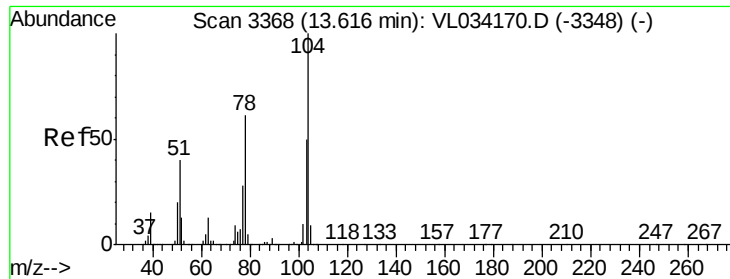
MMDadoda
9/26/2019 12:39:27 AM



#60
o-Xylene
Concen: 9.120 ppbv
RT: 13.78 min Scan# 3418
Delta R.T. -0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Tgt Ion: 91 Resp: 2616970
Ion Ratio Lower Upper
91 100
106 41.9 21.2 63.6





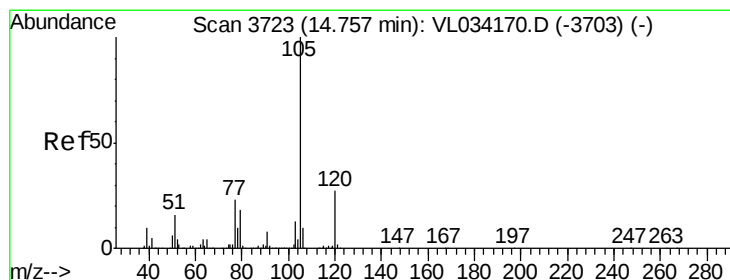
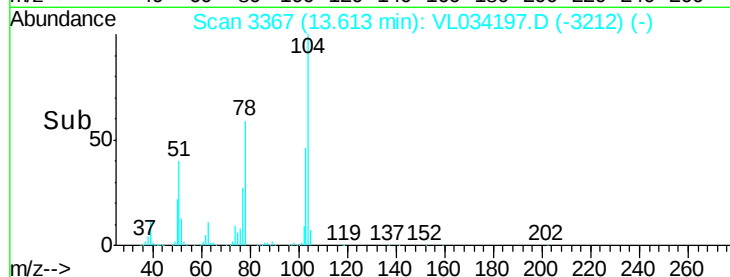
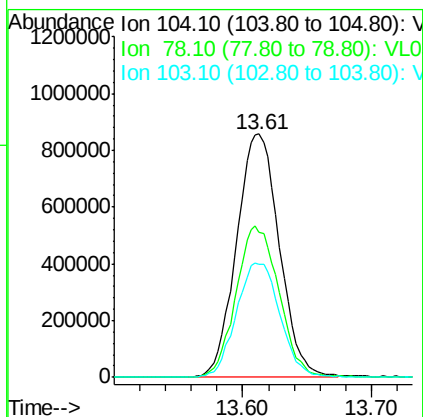
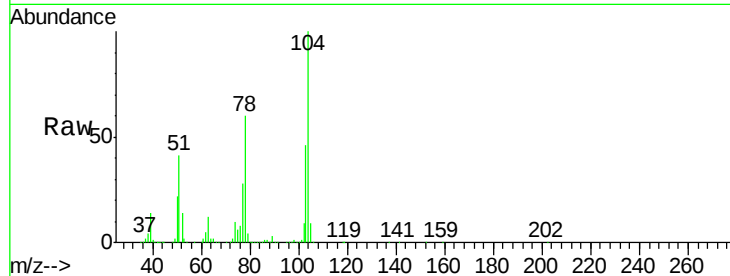
#61
Stvrene
Concen: 9.615 ppbv
RT: 13.61 min Scan# 3367
Delta R.T. -0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	62.8	49.7	74.5
103	48.0	38.4	57.6

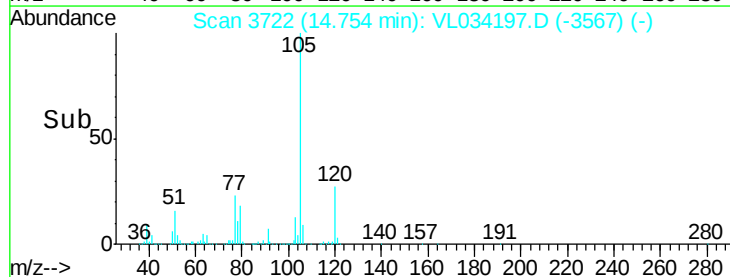
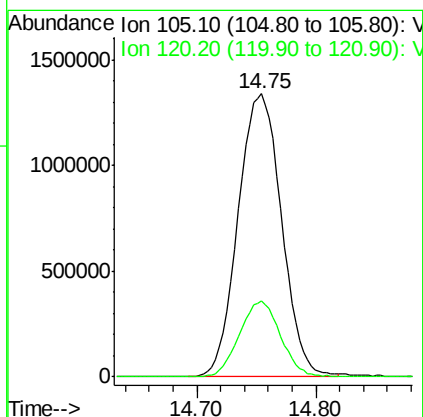
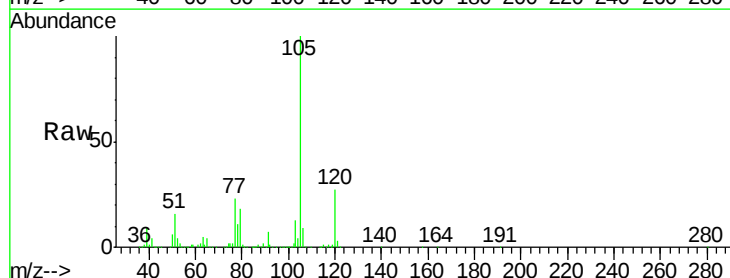
Manual Integrations
APPROVED

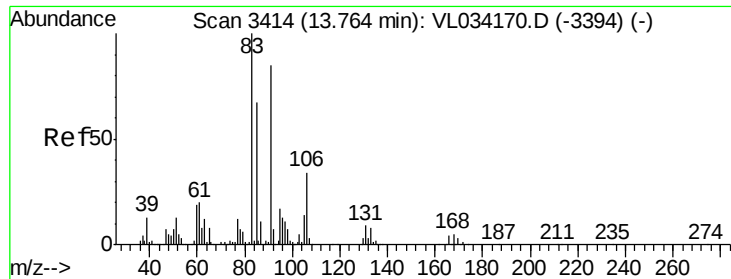
MMDadoda
9/26/2019 12:39:27 AM



#62
Isopropylbenzene
Concen: 9.087 ppbv
RT: 14.75 min Scan# 3722
Delta R.T. -0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.7	31.1





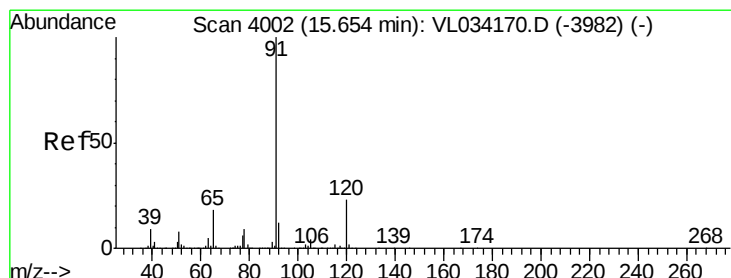
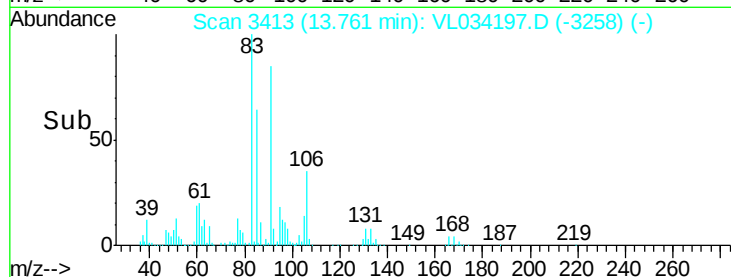
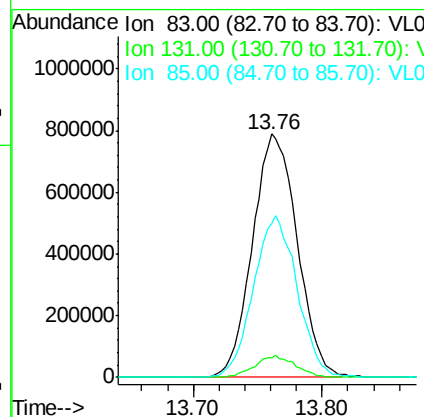
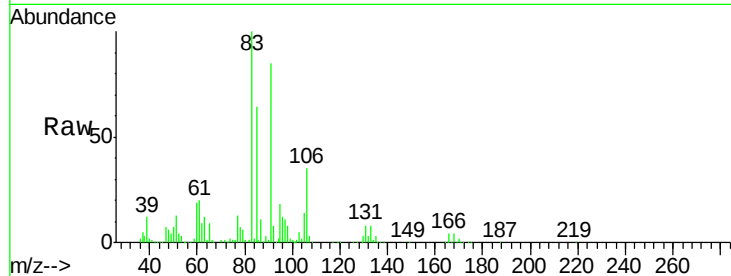
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.093 ppbv
 RT: 13.76 min Scan# 3413
 Delta R.T. -0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 83 Resp: 1904338
 Ion Ratio Lower Upper
 83 100
 131 8.1 4.3 12.8
 85 64.9 32.8 98.4

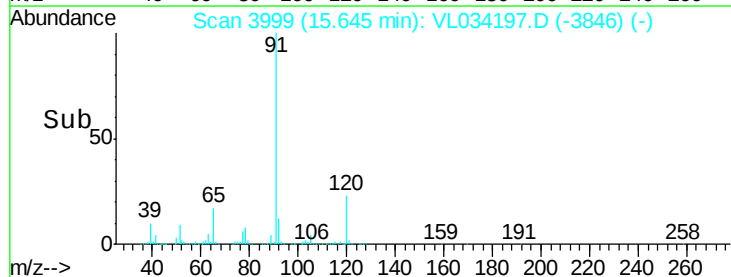
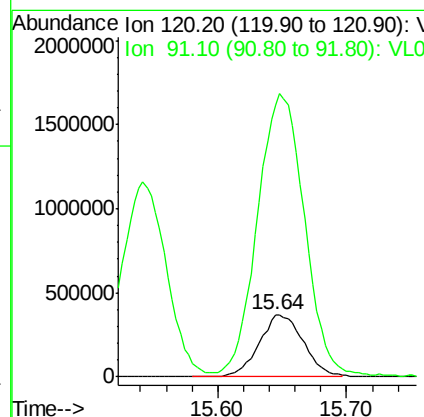
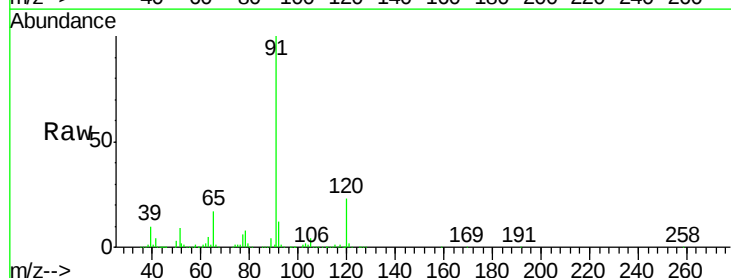
Manual Integrations
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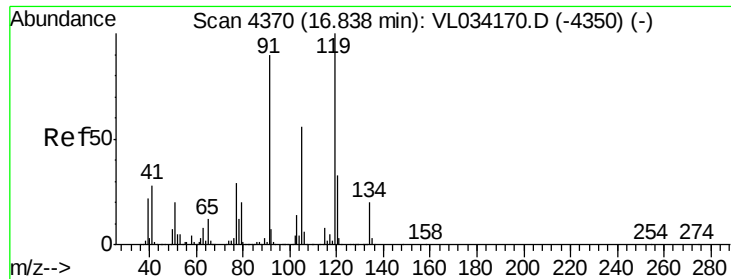
MMDadoda
 9/26/2019 12:39:27 AM



#64
 n-propylbenzene
 Concen: 9.367 ppbv
 RT: 15.64 min Scan# 3999
 Delta R.T. -0.01 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Tgt Ion: 120 Resp: 880336
 Ion Ratio Lower Upper
 120 100
 91 488.4 378.2 567.2





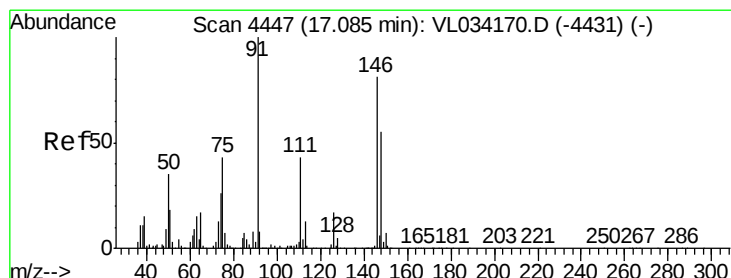
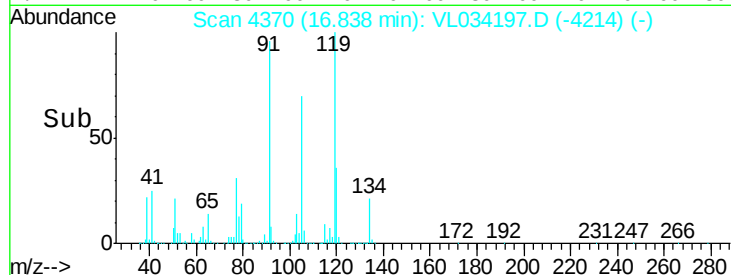
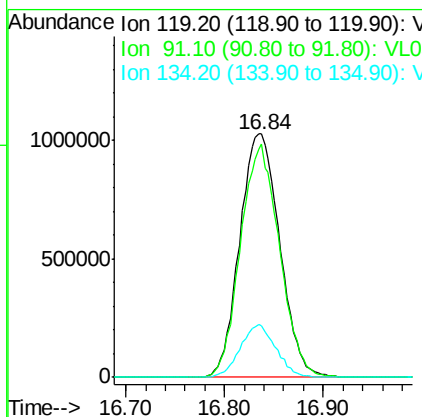
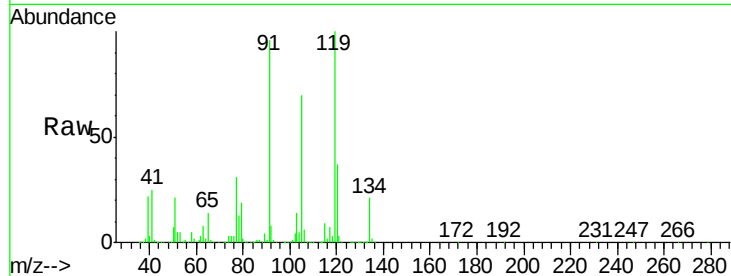
#65
tert-Butylbenzene
Concen: 8.890 ppbv
RT: 16.84 min Scan# 4370
Delta R.T. 0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:119 Resp: 2885567
Ion Ratio Lower Upper
119 100
91 93.5 74.9 112.3
134 19.3 15.8 23.6

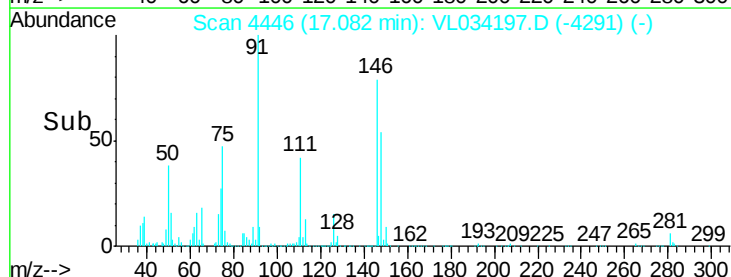
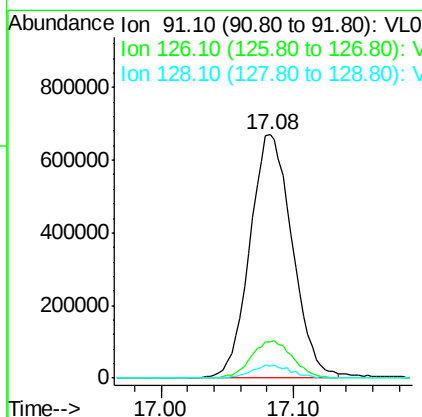
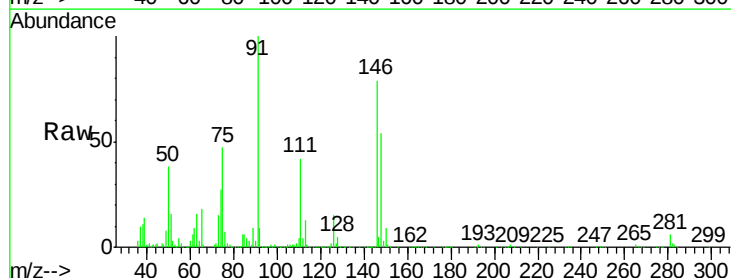
Manual Integrations
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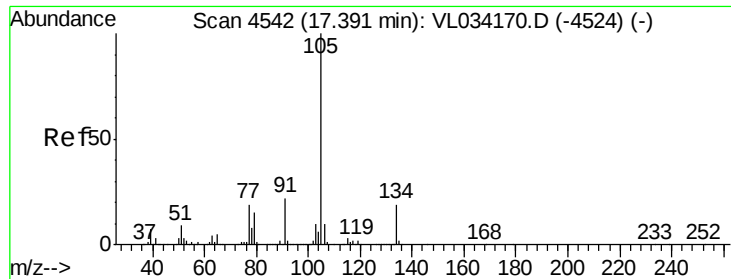
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#66
Benzyl Chloride
Concen: 12.942 ppbv
RT: 17.08 min Scan# 4446
Delta R.T. -0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Tgt Ion: 91 Resp: 1486134
Ion Ratio Lower Upper
91 100
126 15.3 12.6 19.0
128 5.1 4.0 6.0





#67

sec-Butylbenzene

Concen: 9.045 ppbv

RT: 17.38 min Scan# 4540

Delta R.T. -0.01 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 4198101

Ion Ratio Lower Upper

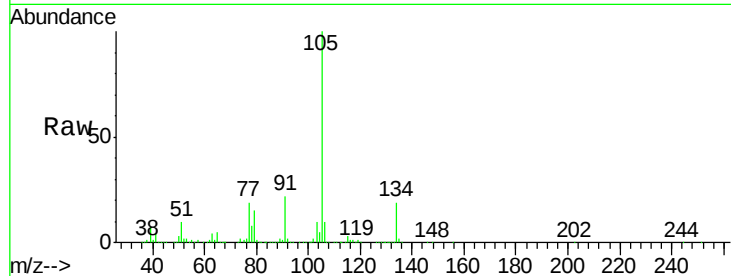
105 100

134 17.8 14.6 22.0

Manual Integrations
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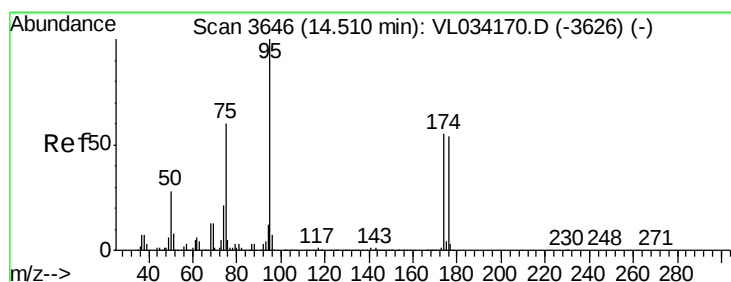
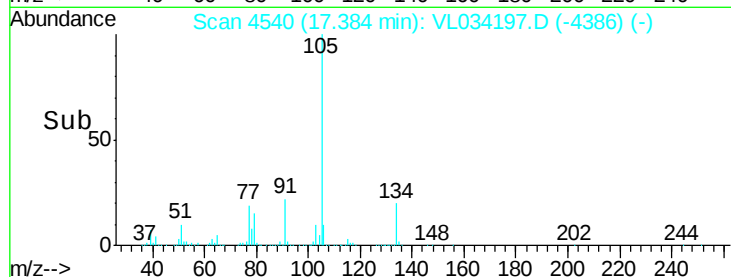
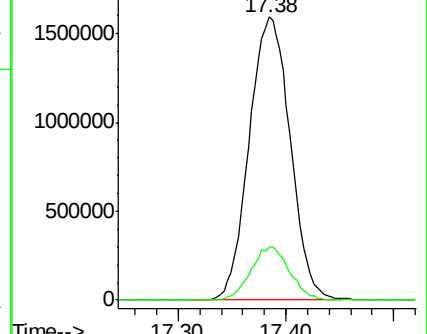
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.861 ppbv

RT: 14.50 min Scan# 3643

Delta R.T. -0.01 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

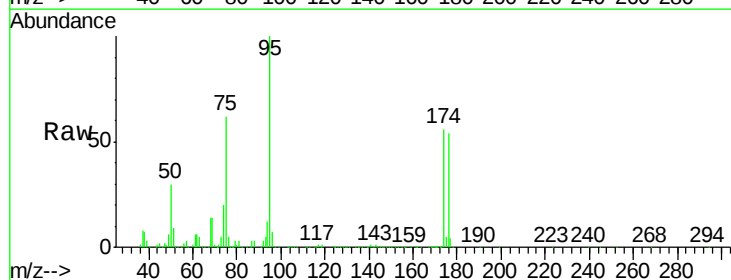
Tgt Ion: 95 Resp: 1839981

Ion Ratio Lower Upper

95 100

174 56.9 45.1 67.7

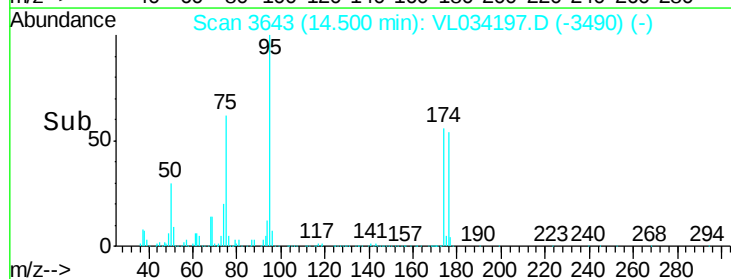
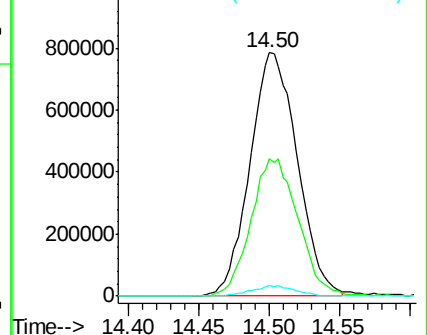
175 4.0 3.3 4.9

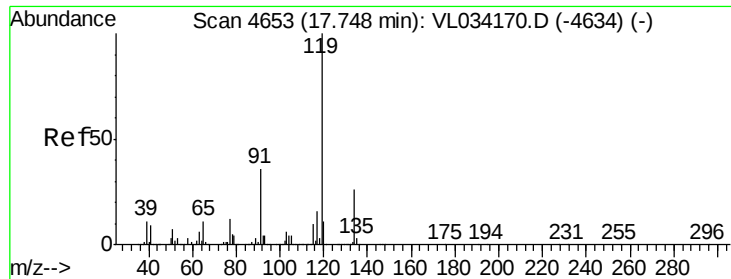


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





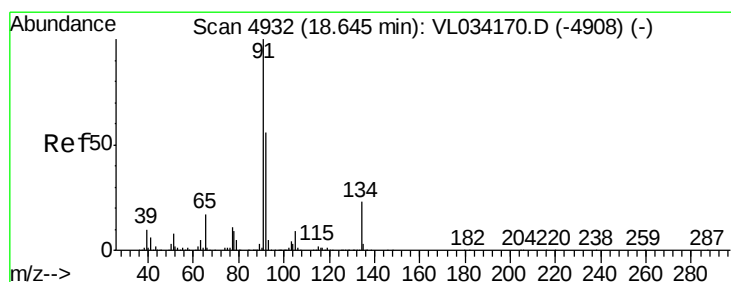
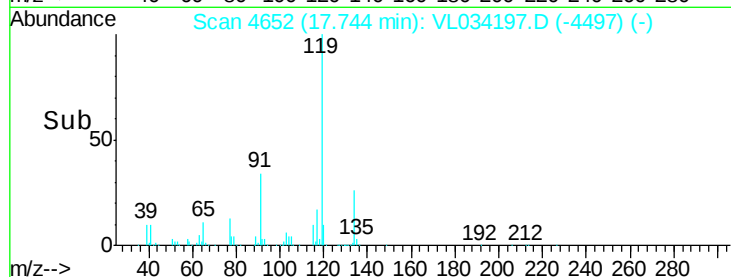
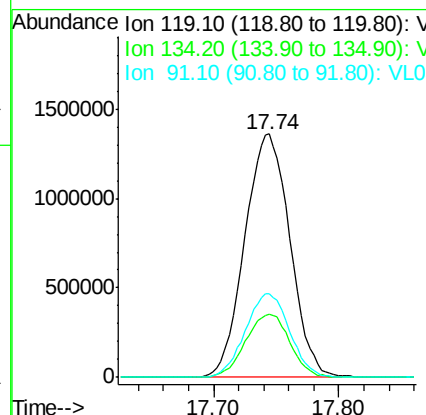
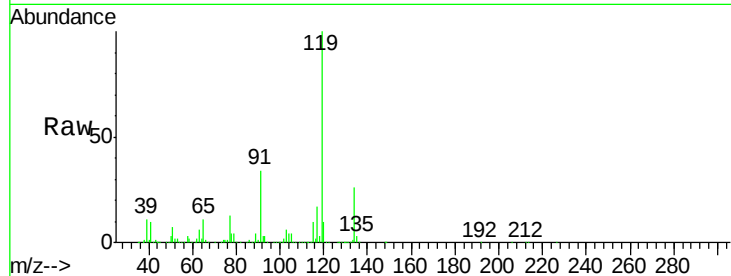
#69
 p-Isopropyltoluene
 Concen: 9.037 ppbv
 RT: 17.74 min Scan# 4652
 Delta R.T. -0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.6	30.8
91	34.0	27.6	41.4

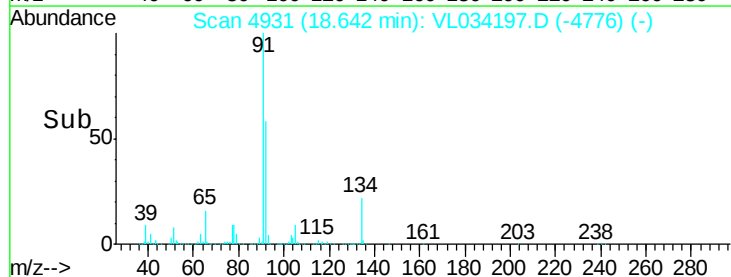
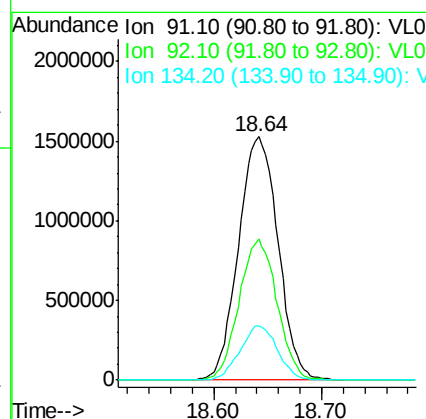
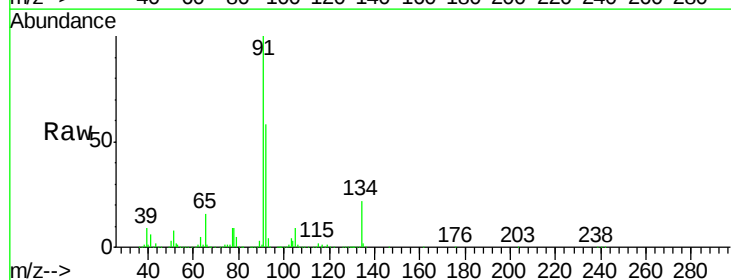
Manual Integrations
 APPROVED

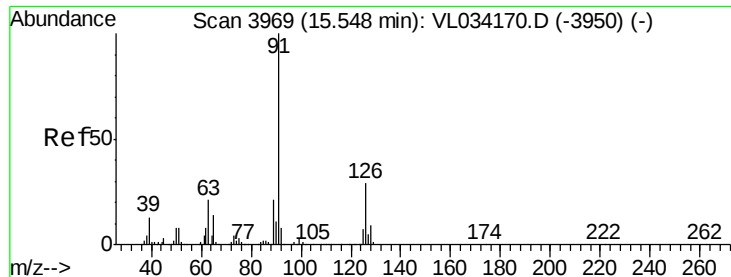
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#70
 n-Butylbenzene
 Concen: 8.883 ppbv
 RT: 18.64 min Scan# 4931
 Delta R.T. -0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.8	44.8	67.2
134	21.2	17.3	25.9





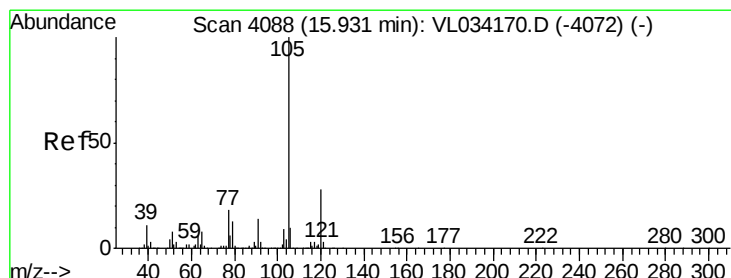
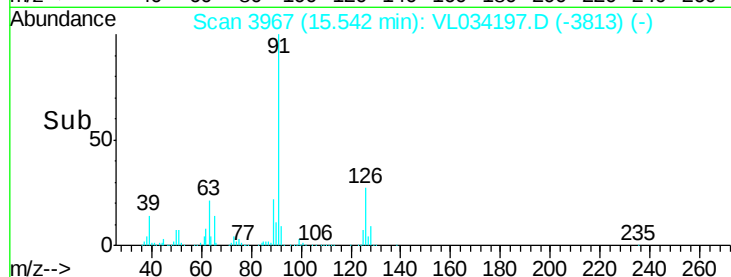
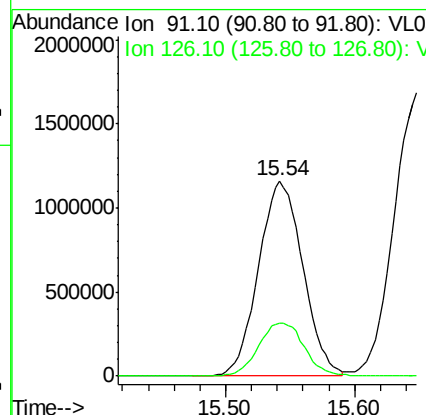
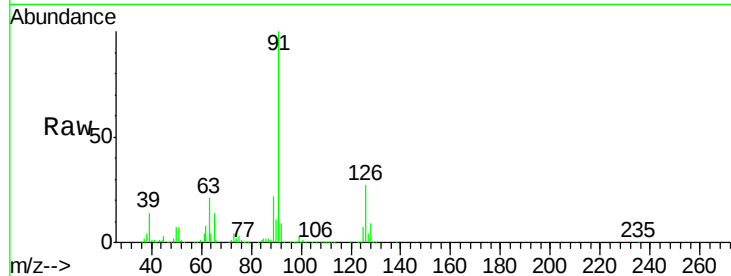
#71
 2-Chlorotoluene
 Concen: 9.166 ppbv
 RT: 15.54 min Scan# 3967
 Delta R.T. -0.01 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 91 Resp: 2781925
 Ion Ratio Lower Upper
 91 100
 126 28.0 11.2 45.0

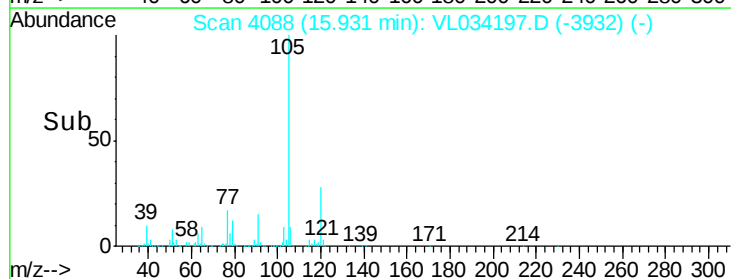
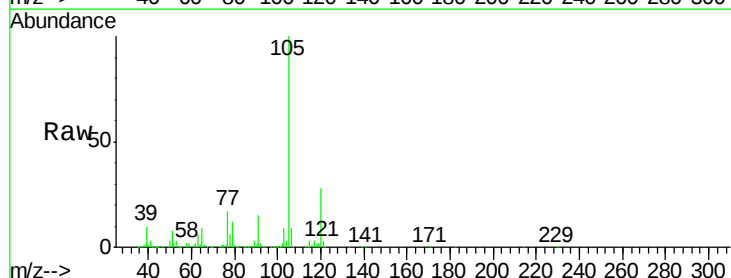
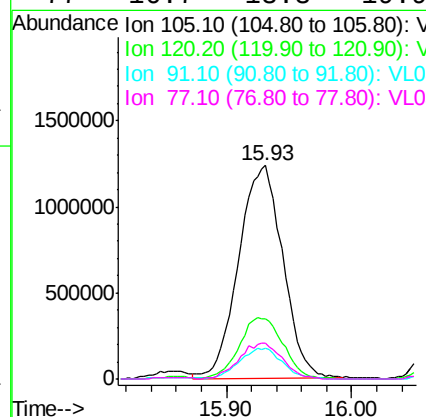
Manual Integrations
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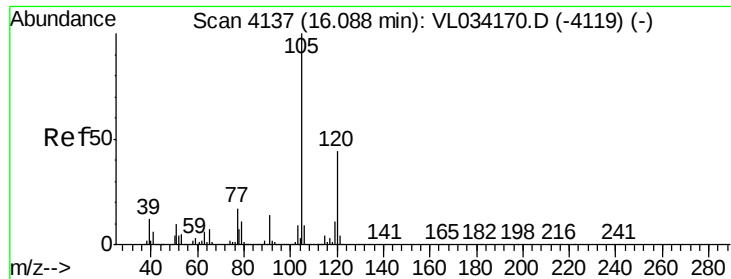
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#72
 4-Ethyltoluene
 Concen: 9.263 ppbv
 RT: 15.93 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Tgt Ion: 105 Resp: 3003038
 Ion Ratio Lower Upper
 105 100
 120 28.8 23.3 34.9
 91 14.2 11.4 17.2
 77 16.7 13.3 19.9





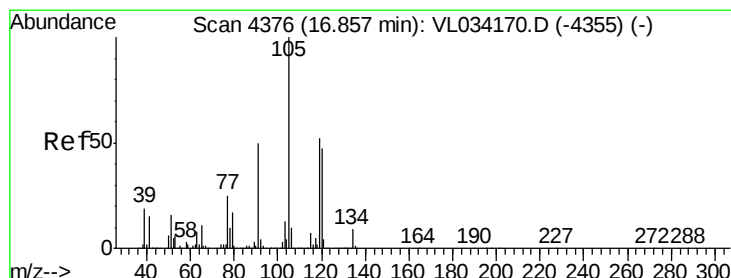
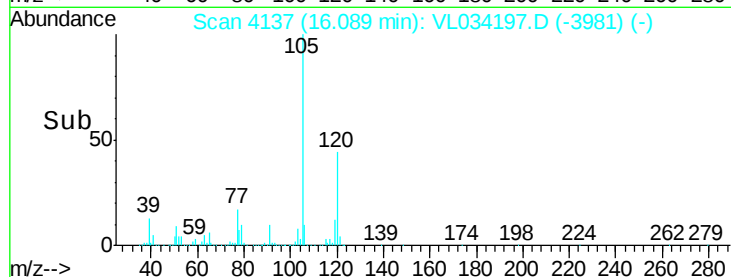
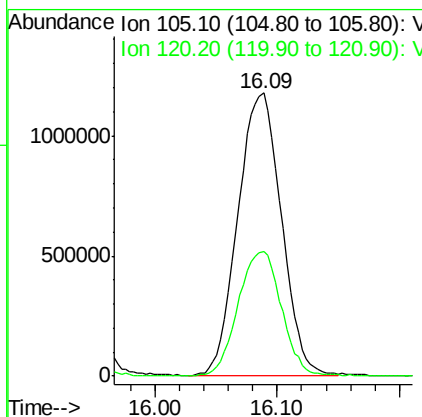
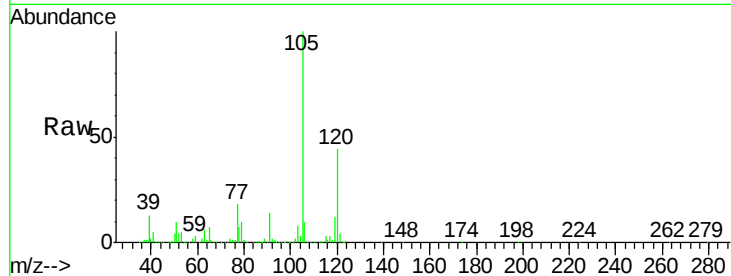
#73
 1,3,5-Trimethylbenzene
 Concen: 9.243 ppbv
 RT: 16.09 min Scan# 4137
 Delta R.T. 0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 2894963
 Ion Ratio Lower Upper
 105 100
 120 44.1 35.6 53.4

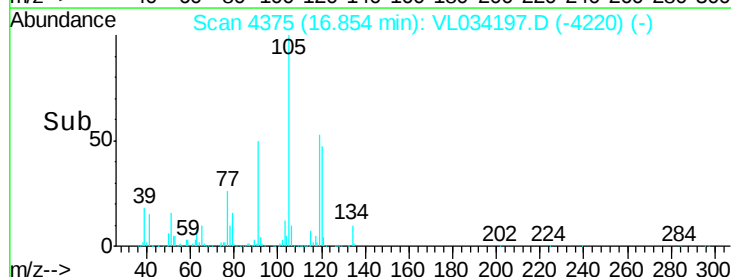
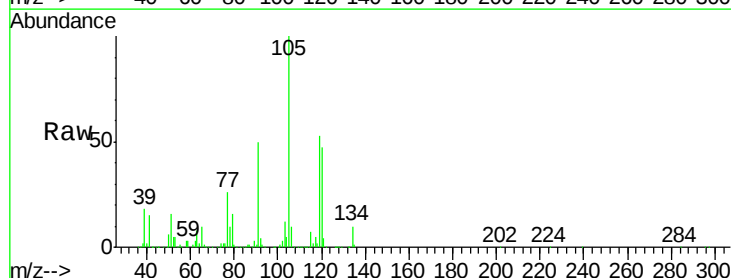
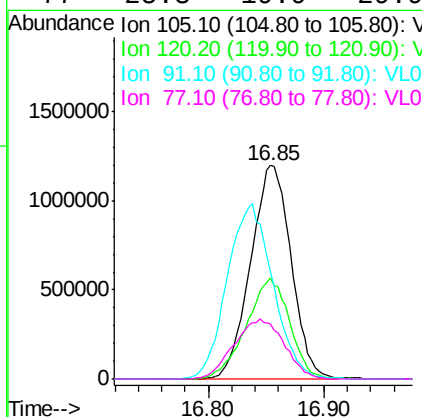
Manual Integrations
 APPROVED

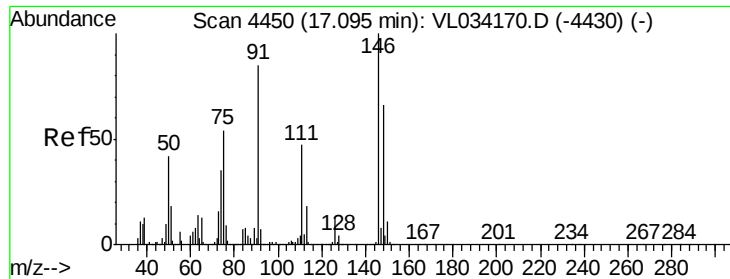
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#74
 1,2,4-Trimethylbenzene
 Concen: 8.758 ppbv
 RT: 16.85 min Scan# 4375
 Delta R.T. -0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Tgt Ion:105 Resp: 2912757
 Ion Ratio Lower Upper
 105 100
 120 47.2 37.5 56.3
 91 49.7 41.1 61.7
 77 25.3 19.9 29.9





#75

1,3-Dichlorobenzene

Concen: 8.798 ppbv

RT: 17.09 min Scan# 4448

Delta R.T. -0.01 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1569879

Ion Ratio Lower Upper

146 100

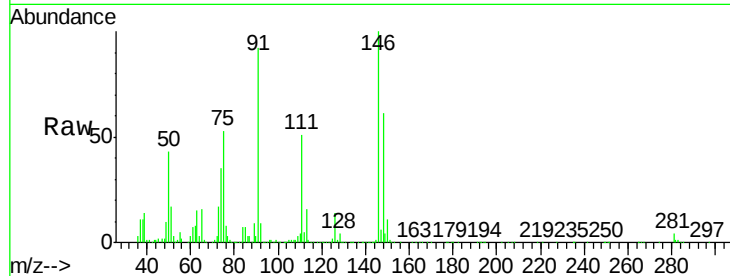
111 52.4 25.9 77.8

148 65.3 32.6 97.7

Manual Integrations
APPROVED

MMDadoda

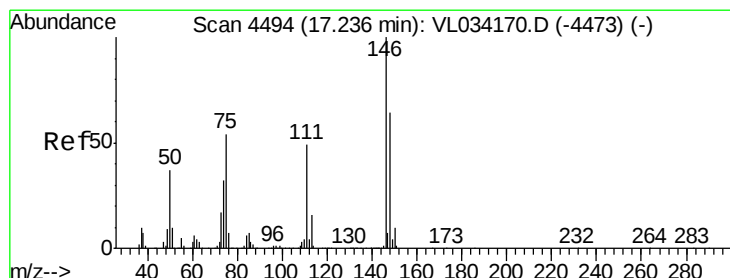
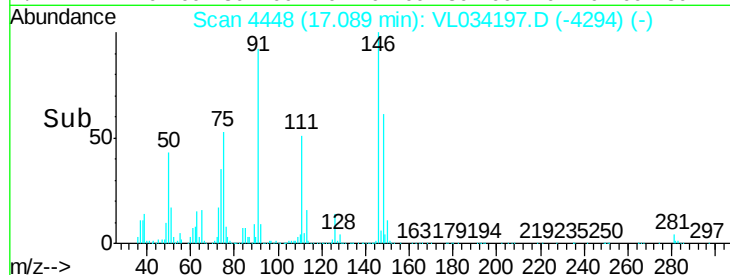
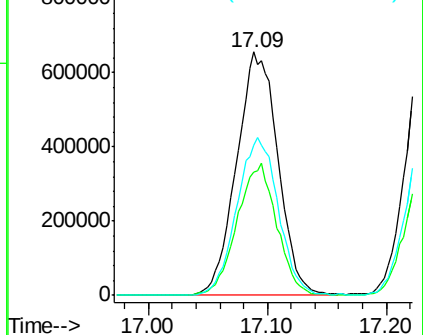
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.692 ppbv

RT: 17.24 min Scan# 4494

Delta R.T. 0.00 min

Lab File: VL034197.D

Acq: 24 Sep 2019 10:20

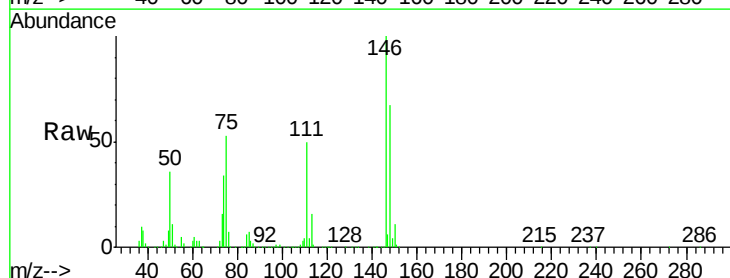
Tgt Ion:146 Resp: 1588389

Ion Ratio Lower Upper

146 100

111 51.4 24.6 74.0

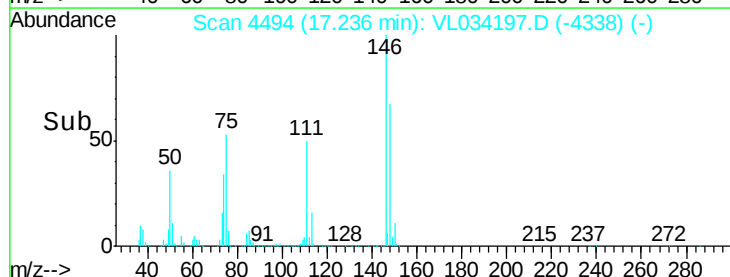
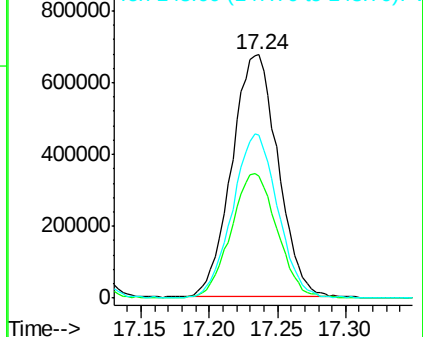
148 66.8 32.4 97.0

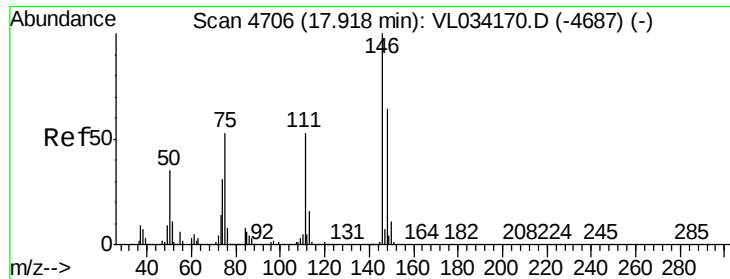


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





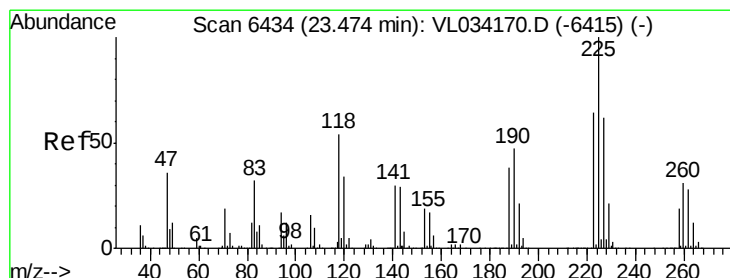
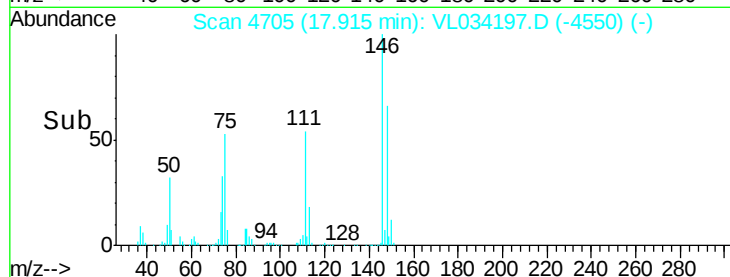
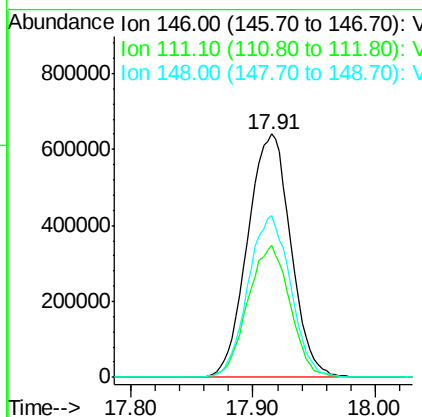
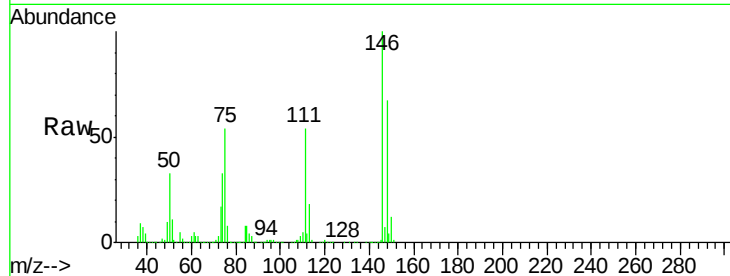
#77
 1,2-Dichlorobenzene
 Concen: 8.694 ppbv
 RT: 17.91 min Scan# 4705
 Delta R.T. -0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 1570056
 Ion Ratio Lower Upper
 146 100
 111 53.0 26.1 78.3
 148 65.6 31.9 95.9

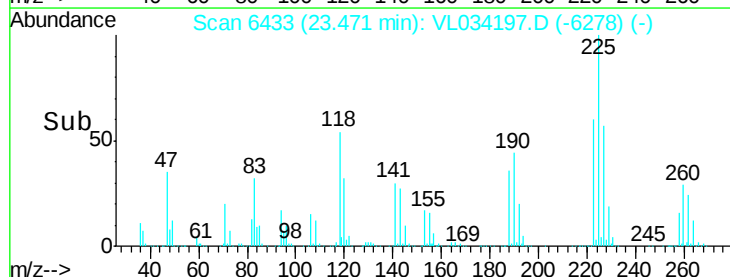
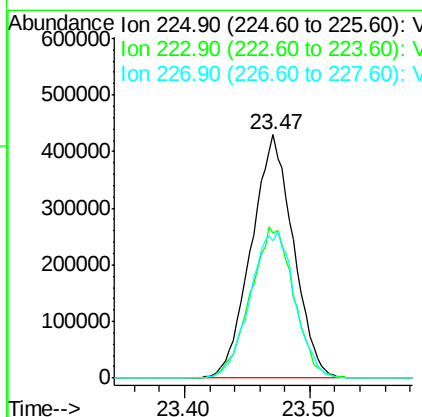
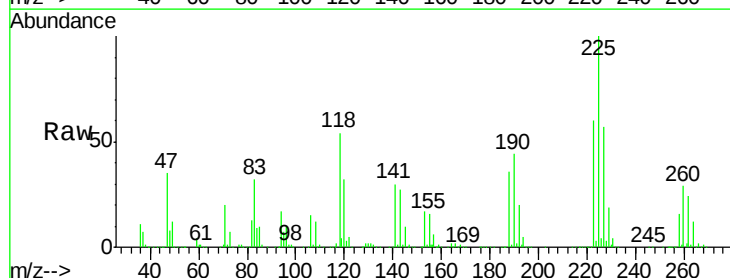
Manual Integrations
 APPROVED

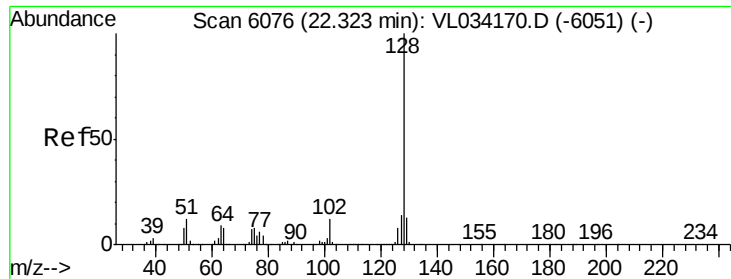
MMDadoda
 9/26/2019 12:39:27 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.376 ppbv
 RT: 23.47 min Scan# 6433
 Delta R.T. -0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Tgt Ion:225 Resp: 1001946
 Ion Ratio Lower Upper
 225 100
 223 64.1 51.7 77.5
 227 64.1 52.1 78.1





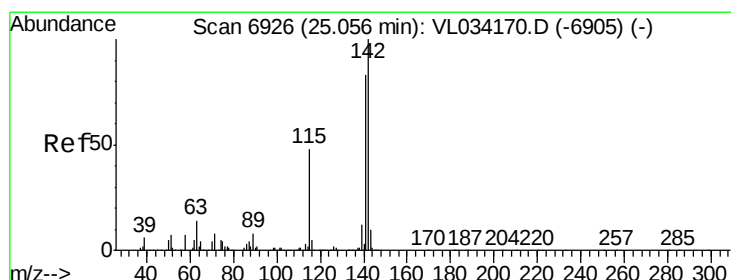
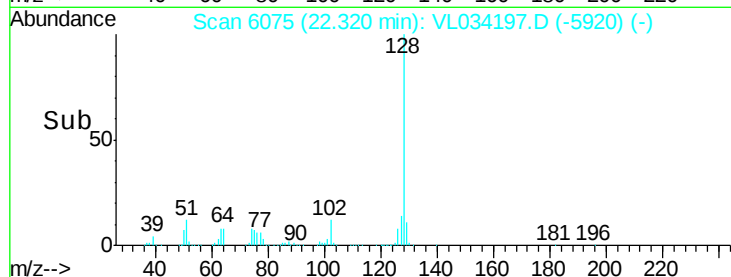
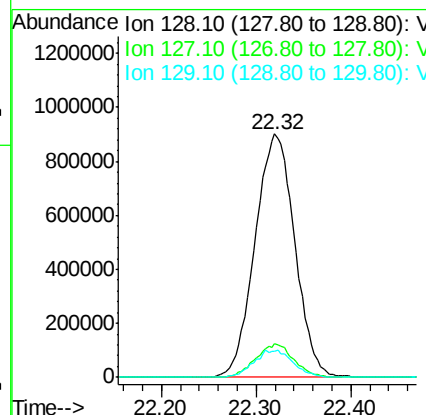
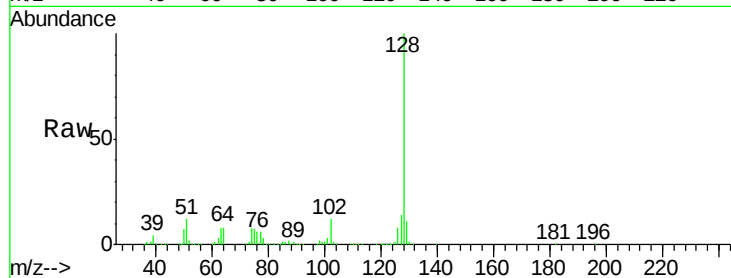
#79
Naphthalene
Concen: 8.967 ppbv
RT: 22.32 min Scan# 6075
Delta R.T. -0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.9	11.1	16.7
129	10.8	10.2	15.4

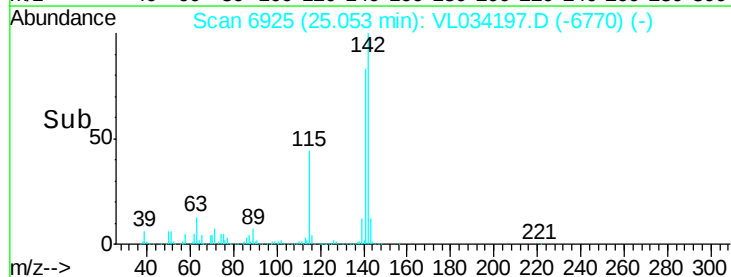
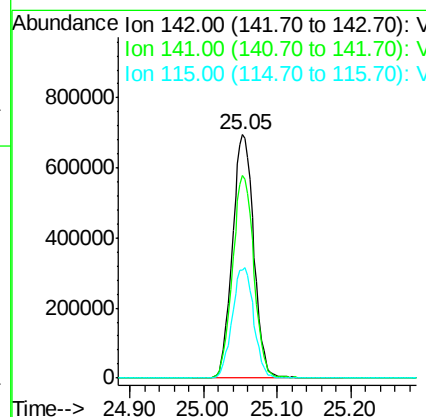
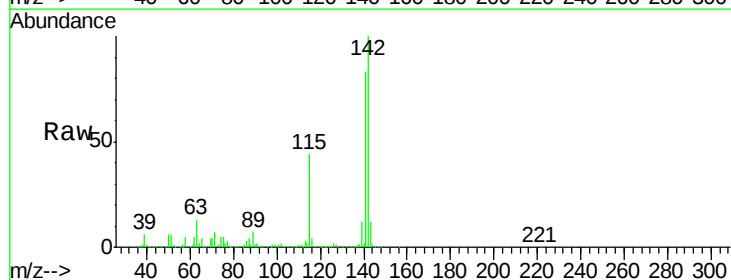
Manual Integrations
APPROVED

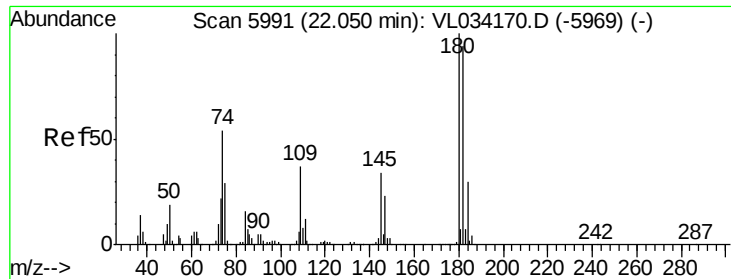
MMDadoda
9/26/2019 12:39:27 AM



#80
Naphthalene, 2-methyl-
Concen: 10.239 ppbv
RT: 25.05 min Scan# 6925
Delta R.T. -0.00 min
Lab File: VL034197.D
Acq: 24 Sep 2019 10:20

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.0	67.6	101.4
115	45.7	36.9	55.3





#81
 1,2,4-Trichlorobenzene
 Concen: 8.711 ppbv
 RT: 22.05 min Scan# 5990
 Delta R.T. -0.00 min
 Lab File: VL034197.D
 Acq: 24 Sep 2019 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.1	77.4	116.2
184	30.8	25.0	37.4

Manual Integrations
 APPROVED

MMDadoda
 9/26/2019 12:39:27 AM

