

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035239.D
 Acq On : 29 Jul 2020 6:34
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 7/30/2020 6:10:34 PM

Quant Time: Jul 29 07:12:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 29 2020
 QLast Update : Wed Jul 29 03:31:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1499343	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3580892	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	3791698	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2802055	9.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1924970	9.335	ppbv	98
3) Chlorodifluoromethane	2.94	51	2048592	12.337	ppbv	99
4) Chloromethane	3.10	50	1210621	12.918	ppbv	98
5) Vinyl Chloride	3.21	62	1218595	12.155	ppbv	98
6) Bromomethane	3.44	94	778603	13.679	ppbv	99
7) Chloroethane	3.52	64	474551	13.381	ppbv	100
8) Dichlorotetrafluoroethane	3.15	85	2520523	10.894	ppbv	98
9) Propene	2.97	41	844904	13.590	ppbv	100
10) Heptane	8.14	43	2488757	15.410	ppbv	100
11) Trichlorofluoromethane	3.92	101	2950089	12.348	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	2106888	12.551	ppbv	98
13) Ethanol	3.57	45	215659	10.562	ppbv	95
14) Bromoethene	3.71	108	962091	13.954	ppbv	99
15) Acetone	3.82	43	2279654	11.183	ppbv	100
16) 1,3-Butadiene	3.29	39	1117826	14.314	ppbv	99
17) tert-Butyl alcohol	4.27	59	2511198	13.799	ppbv	99
18) 1,1-Dichloroethene	4.26	96	992120	13.333	ppbv	98
19) Isopropyl Alcohol	3.94	45	1661135	13.369	ppbv	100
20) Methylene Chloride	4.32	84	910755	10.221	ppbv	98
21) Allyl Chloride	4.39	41	1594311	13.433	ppbv	100
22) trans-1,2-Dichloroethene	4.87	96	960230	12.998	ppbv	95
23) Vinyl Acetate	5.06	43	3005548	13.793	ppbv	99
24) 1,1-Dichloroethane	5.00	63	2450315	12.950	ppbv	99
25) Ethyl Acetate	5.67	43	4249880	13.460	ppbv	99
26) Hexane	5.68	57	1947923	13.960	ppbv	99
27) Carbon Disulfide	4.53	76	2632610	13.566	ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	2910751	13.744	ppbv	100
29) Chloroform	5.75	83	3042119	12.977	ppbv	96
30) Cyclohexane	7.14	84	1644310	15.954	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1941069	14.802	ppbv	99
32) 1,1,1-Trichloroethane	6.52	97	3013181	12.855	ppbv	99
34) 2-Butanone	5.23	43	2627731	13.759	ppbv	100
35) Carbon Tetrachloride	7.03	117	3140333	13.425	ppbv	98
36) Benzene	6.90	78	3771960	14.539	ppbv	99
37) 1,2-Dichloroethane	6.31	62	2389333	13.640	ppbv	100
38) Trichloroethene	7.85	130	1576369	14.820	ppbv	96
39) 1,2-Dichloropropane	7.63	63	1508658	14.536	ppbv	96
40) 1,4-Dioxane	7.84	88	590227	14.267	ppbv #	1
41) Tetrahydrofuran	6.04	42	1467450	15.439	ppbv	99
42) Bromodichloromethane	7.81	83	3310422	14.152	ppbv	100
43) Methyl Methacrylate	8.03	69	1813726	16.428	ppbv	99

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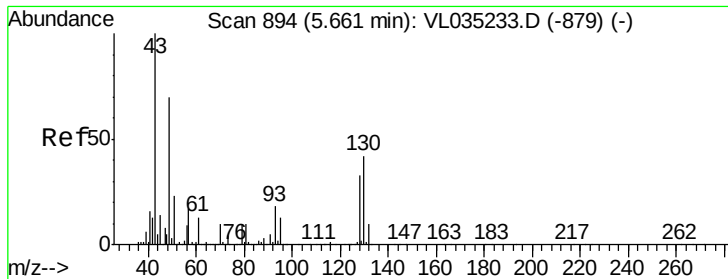
Manual Integrations
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Quant Time: Jul 29 07:12:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	6440838	14.325	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	2054488	17.788	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	2391841	17.405	ppbv	99
47) 1,1,2-Trichloroethane	9.50	97	1676583	14.713	ppbv	96
48) Dibromochloromethane	10.34	129	2849985	15.392	ppbv	99
49) Bromoform	13.09	173	2607644	15.950	ppbv	100
50) 4-Methyl-2-Pentanone	8.76	43	4161801	15.134	ppbv	99
51) 2-Hexanone	10.16	43	3418263	16.235	ppbv #	97
52) Tetrachloroethene	11.26	164	1424577	14.593	ppbv	94
53) Toluene	9.83	91	4492585	16.335	ppbv	98
54) 1,2-Dibromoethane	10.65	107	2549650	15.090	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.17	131	2158428	12.673	ppbv	98
57) Chlorobenzene	12.19	112	3558375	12.537	ppbv	98
58) Ethyl Benzene	12.75	91	6077426	14.335	ppbv	95
59) m/p-Xylene	13.03	91	10041115m	26.493	ppbv	
60) o-Xylene	13.73	91	5168603	13.668	ppbv	99
61) Styrene	13.57	104	3759763	16.100	ppbv	99
62) Isopropylbenzene	14.71	105	7397840	13.195	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.72	83	3771546	11.939	ppbv	99
64) n-propylbenzene	15.61	120	2107150	14.518	ppbv	88
65) tert-Butylbenzene	16.80	119	6654544	13.221	ppbv	99
66) Benzyl Chloride	17.04	91	2986286m	16.472	ppbv	
67) sec-Butylbenzene	17.34	105	9248837	12.616	ppbv	97
69) p-Isopropyltoluene	17.70	119	7858743	13.575	ppbv	97
70) n-Butylbenzene	18.60	91	8341122	13.586	ppbv	97
71) 2-Chlorotoluene	15.50	91	5954889	14.030	ppbv	99
72) 4-Ethyltoluene	15.89	105	6100780	14.272	ppbv	98
73) 1,3,5-Trimethylbenzene	16.04	105	5758523	14.001	ppbv	97
74) 1,2,4-Trimethylbenzene	16.82	105	5973640	13.079	ppbv	97
75) 1,3-Dichlorobenzene	17.05	146	3620239	12.469	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	3640361	13.507	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	3521848	13.448	ppbv	99
78) Hexachloro-1,3-Butadiene	23.43	225	2499723	12.183	ppbv	100
79) Naphthalene	22.27	128	5793985	19.082	ppbv	98
80) Naphthalene, 2-methyl-	25.02	142	2274146	31.437	ppbv	99
81) 1,2,4-Trichlorobenzene	22.00	180	3187612	16.638	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

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Instrument :

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ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1499343

Ion Ratio Lower Upper

49 100

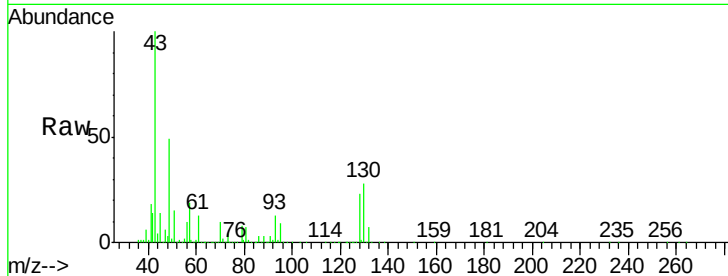
128 47.1 24.0 72.0

130 60.2 30.7 92.1

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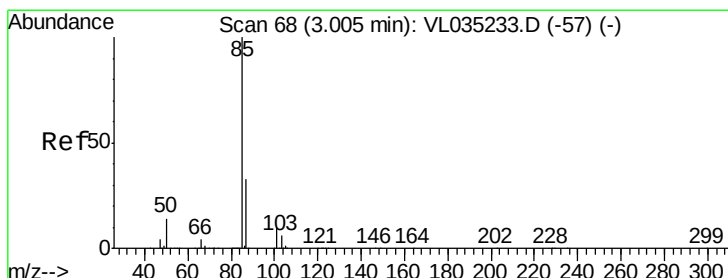
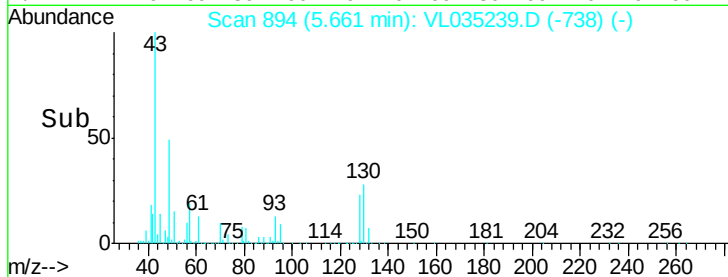
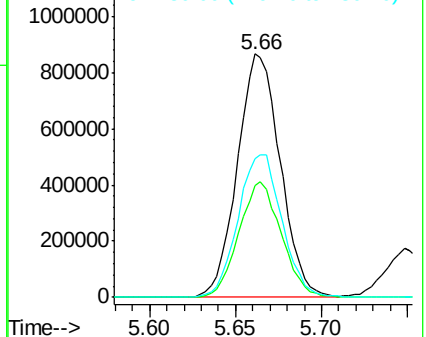
7/30/2020 6:10:34 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.335 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035239.D

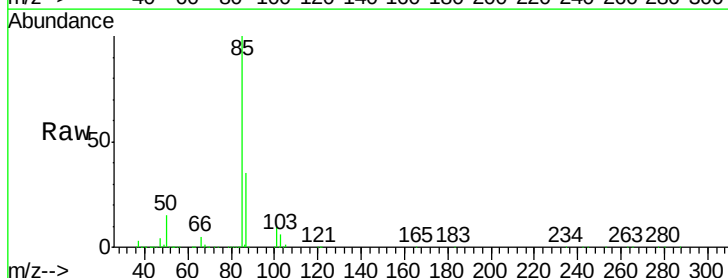
Acq: 29 Jul 2020 6:34

Tgt Ion: 85 Resp: 1924970

Ion Ratio Lower Upper

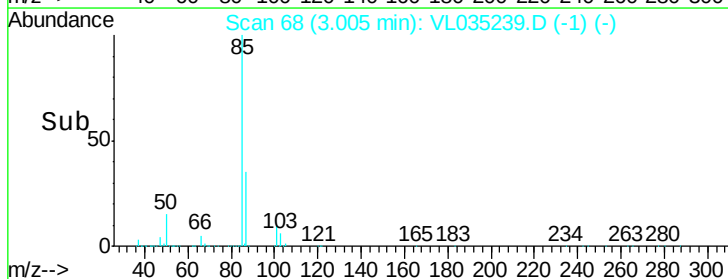
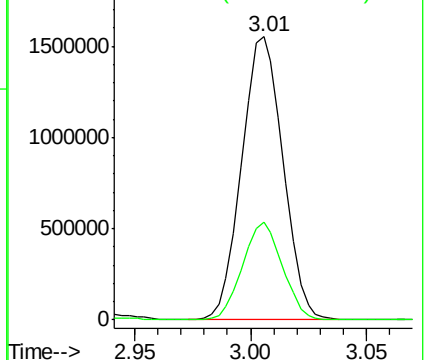
85 100

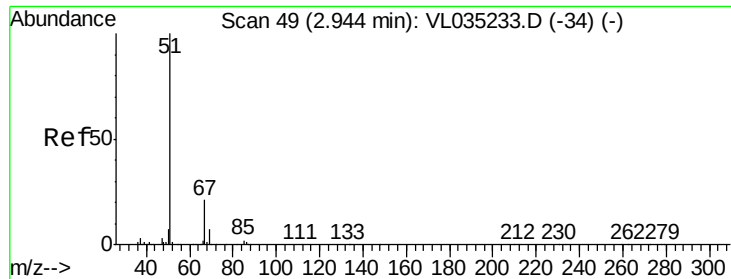
87 34.5 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





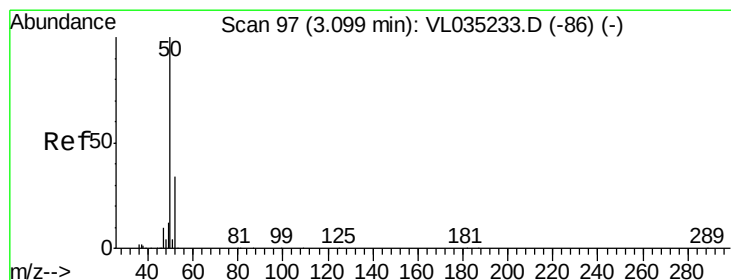
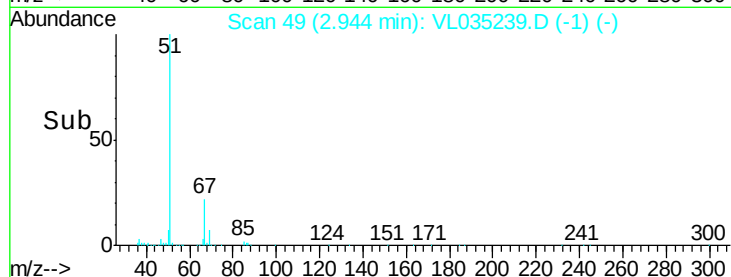
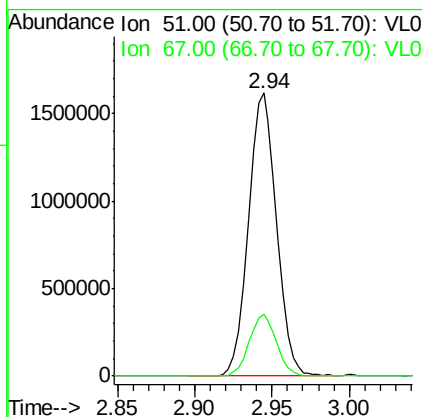
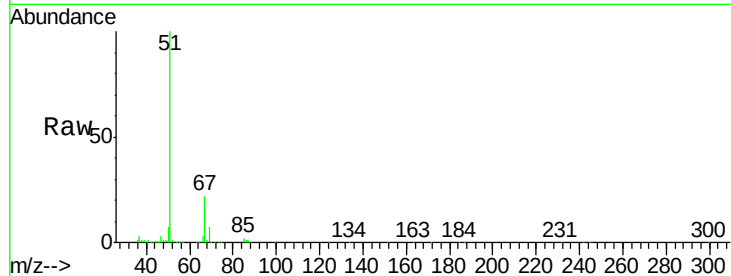
#3
Chlorodifluoromethane
Concen: 12.337 ppbv
RT: 2.94 min Scan# 49
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 51 Resp: 2048592
Ion Ratio Lower Upper
51 100
67 21.4 16.6 25.0

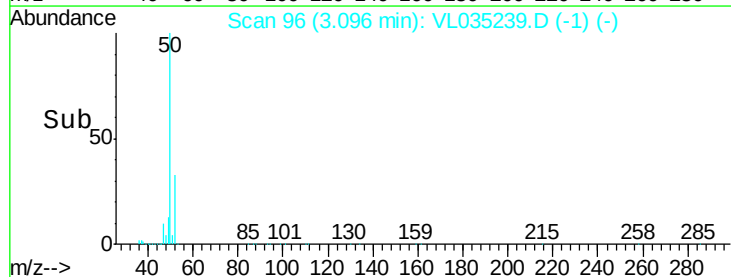
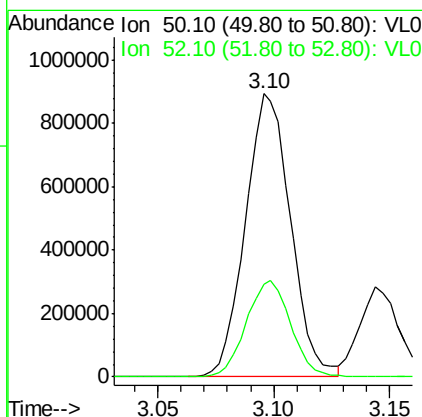
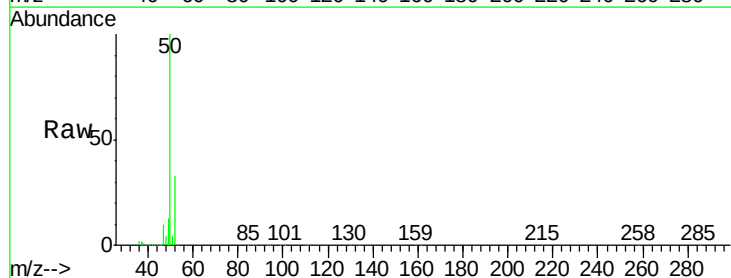
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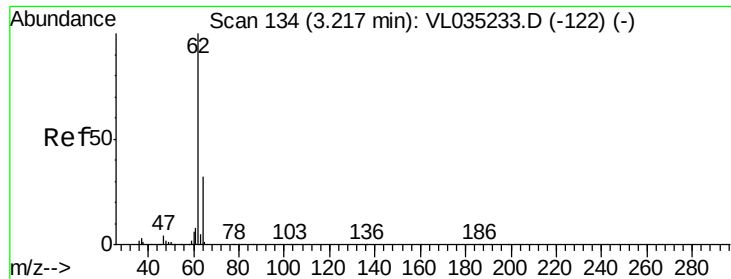
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#4
Chloromethane
Concen: 12.918 ppbv
RT: 3.10 min Scan# 96
Delta R.T. -0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Tgt Ion: 50 Resp: 1210621
Ion Ratio Lower Upper
50 100
52 32.7 27.1 40.7





#5

Vinyl Chloride

Concen: 12.155 ppbv

RT: 3.21 min Scan# 133

Delta R.T. -0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1218595

Ion Ratio Lower Upper

62 100

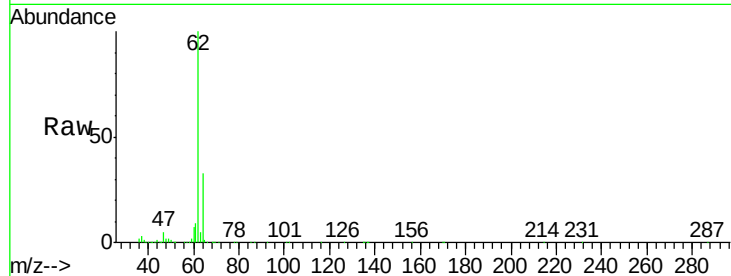
64 33.3 25.8 38.6

Manual Integrations

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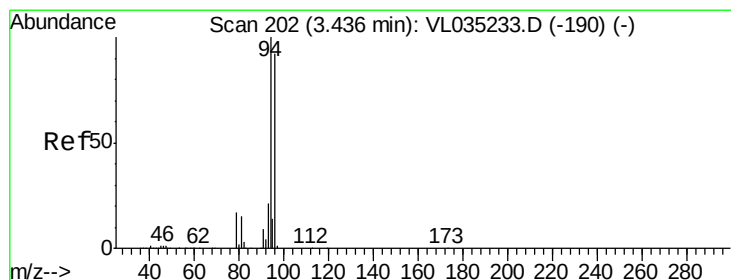
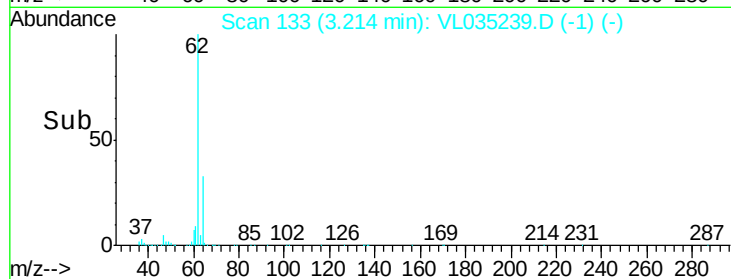
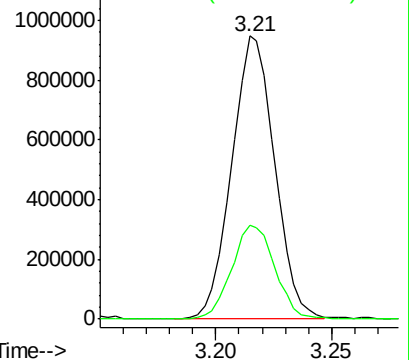
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 13.679 ppbv

RT: 3.44 min Scan# 202

Delta R.T. 0.00 min

Lab File: VL035239.D

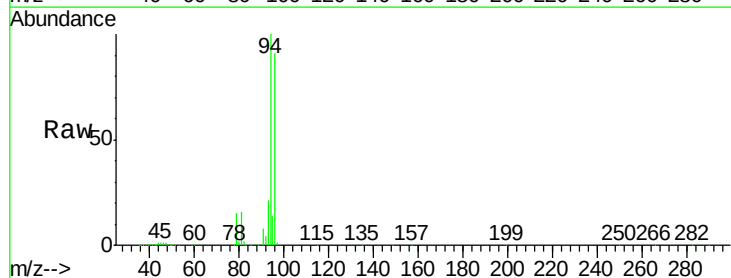
Acq: 29 Jul 2020 6:34

Tgt Ion: 94 Resp: 778603

Ion Ratio Lower Upper

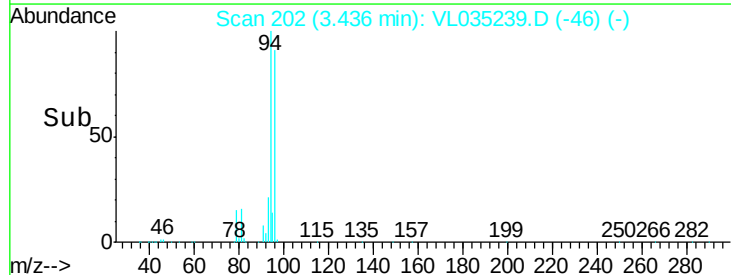
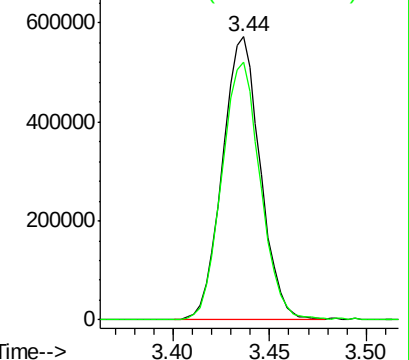
94 100

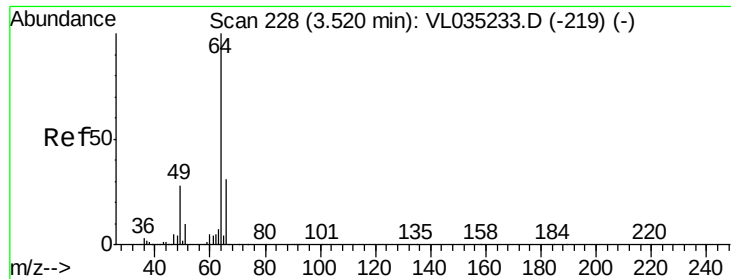
96 90.8 73.2 109.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 13.381 ppbv

RT: 3.52 min Scan# 228

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 474551

Ion Ratio Lower Upper

64 100

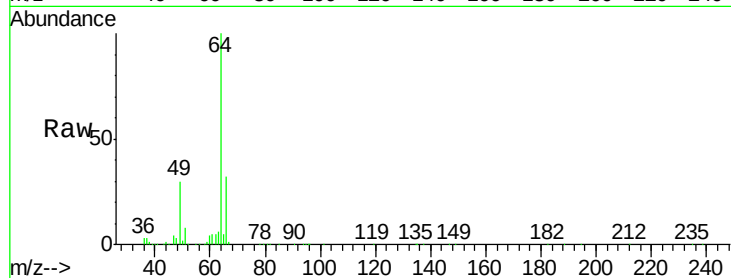
66 32.0 25.6 38.4

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.52

400000

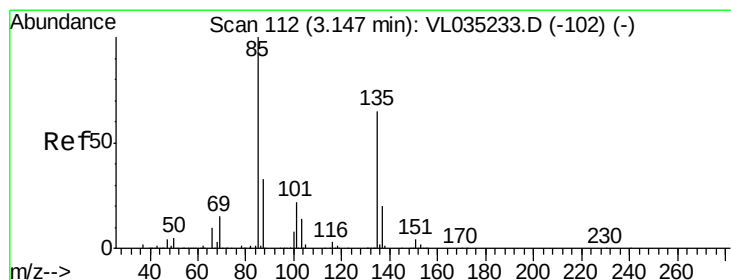
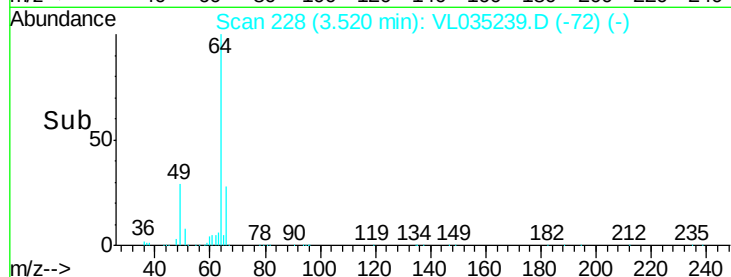
300000

200000

100000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.894 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL035239.D

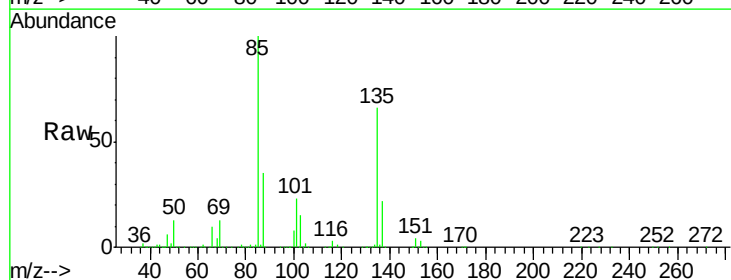
Acq: 29 Jul 2020 6:34

Tgt Ion: 85 Resp: 2520523

Ion Ratio Lower Upper

85 100

135 65.9 51.4 77.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.15

2000000

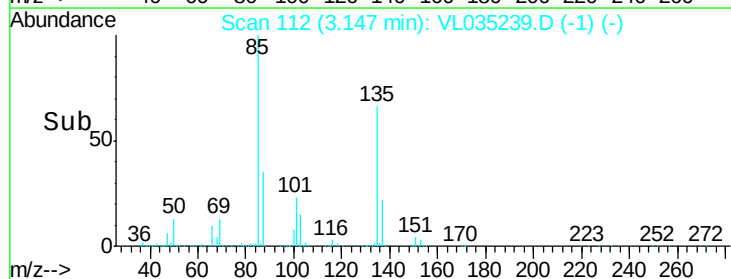
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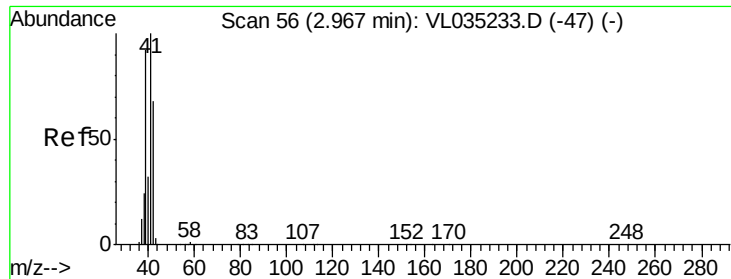
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500000

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Time-->





#9

Propene

Concen: 13.590 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 844904

Ion Ratio Lower Upper

41 100

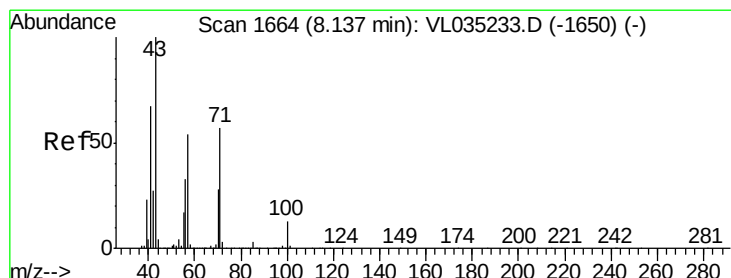
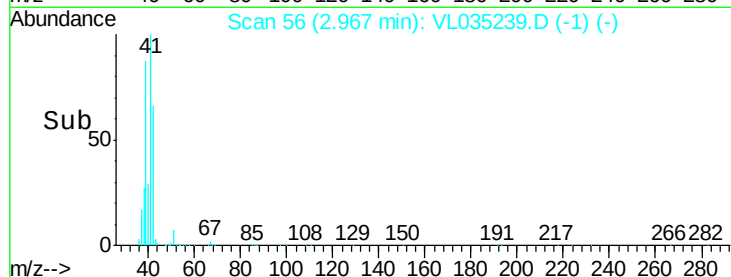
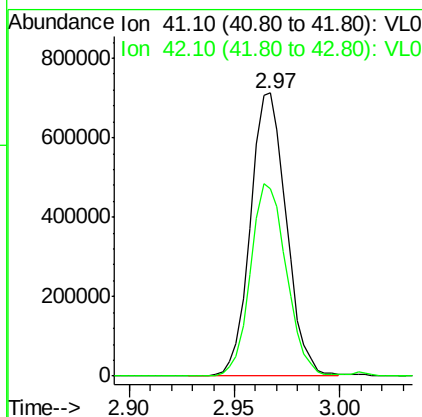
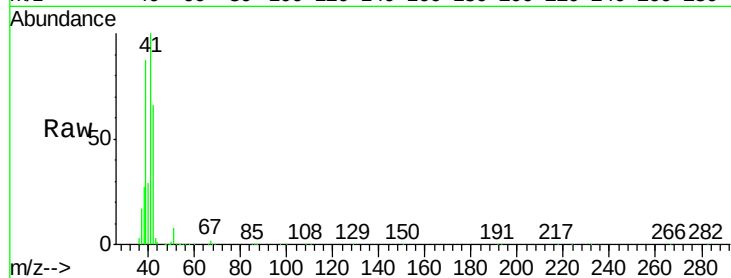
42 69.2 55.0 82.6

Manual Integrations

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#10

Heptane

Concen: 15.410 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.00 min

Lab File: VL035239.D

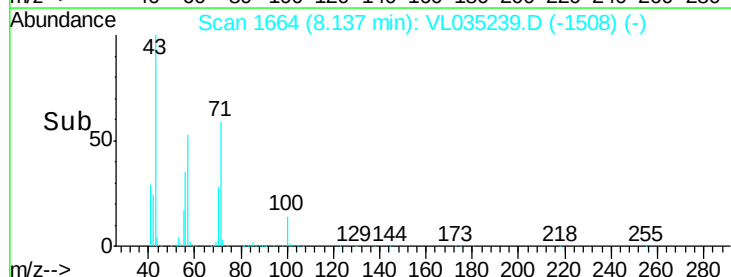
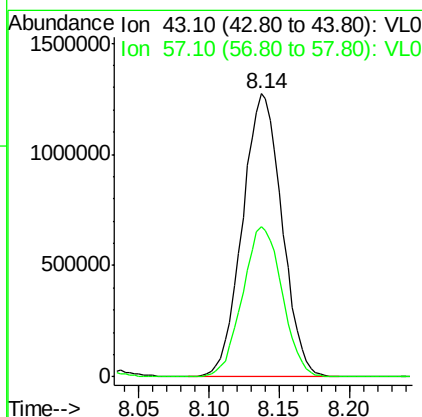
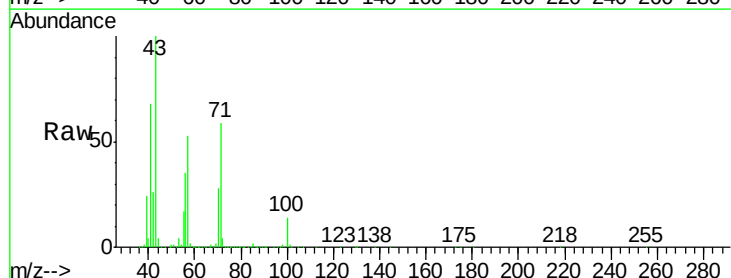
Acq: 29 Jul 2020 6:34

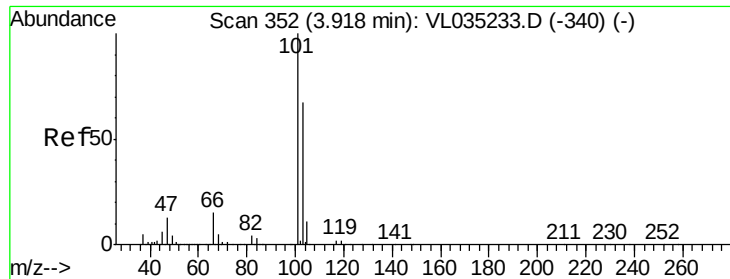
Tgt Ion: 43 Resp: 2488757

Ion Ratio Lower Upper

43 100

57 53.4 43.0 64.4





#11

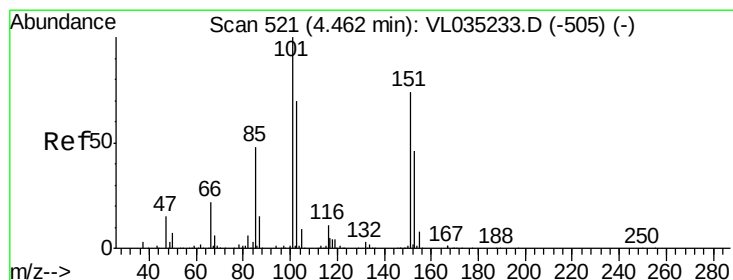
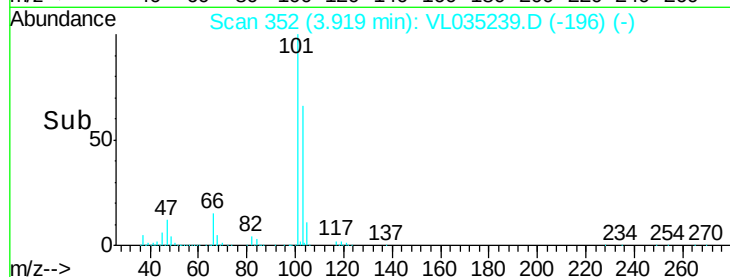
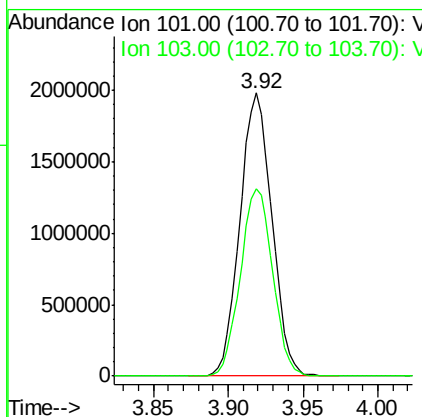
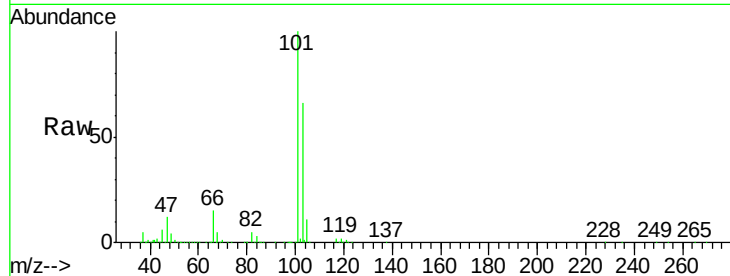
Trichlorofluoromethane
Concen: 12.348 ppbv
RT: 3.92 min Scan# 352
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:101 Resp: 2950089
Ion Ratio Lower Upper
101 100
103 66.3 53.4 80.0

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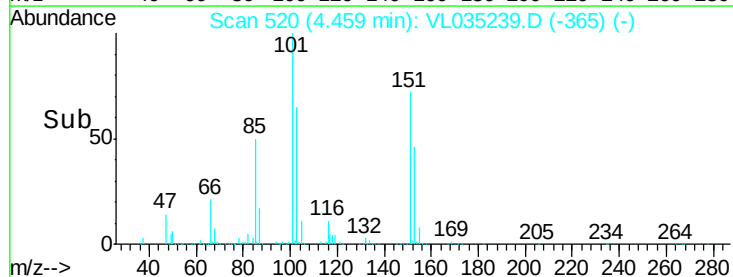
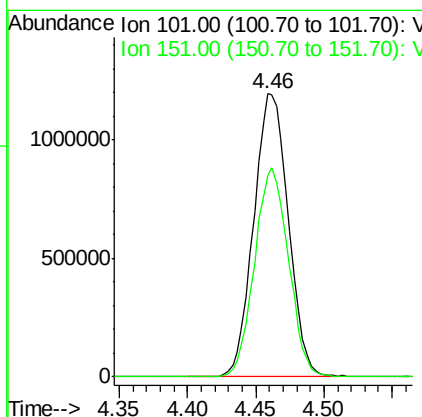
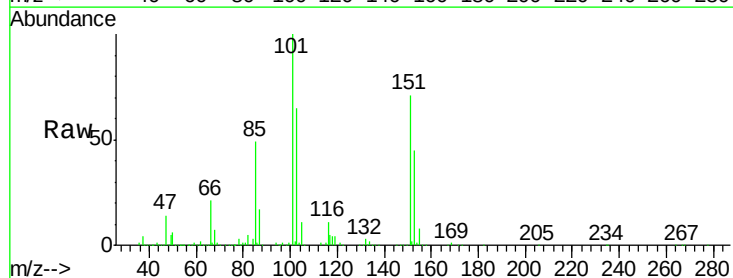
MMDadoda
7/30/2020 6:10:34 PM

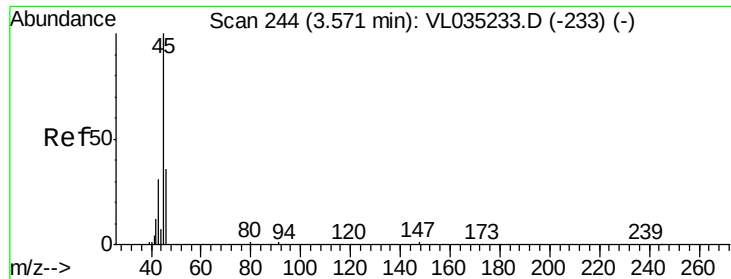


#12

1,1,2-Trichlorotrifluoroethane
Concen: 12.551 ppbv
RT: 4.46 min Scan# 520
Delta R.T. -0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Tgt Ion:101 Resp: 2106888
Ion Ratio Lower Upper
101 100
151 72.4 56.6 85.0





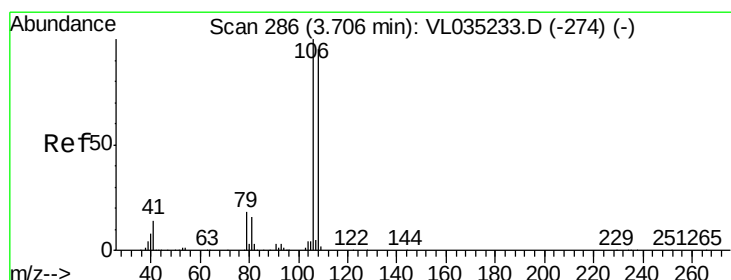
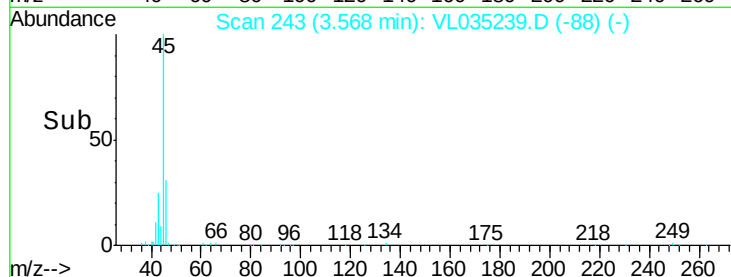
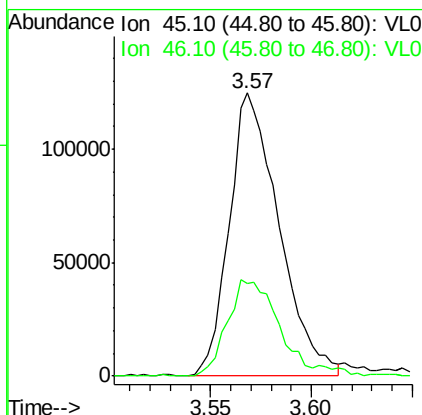
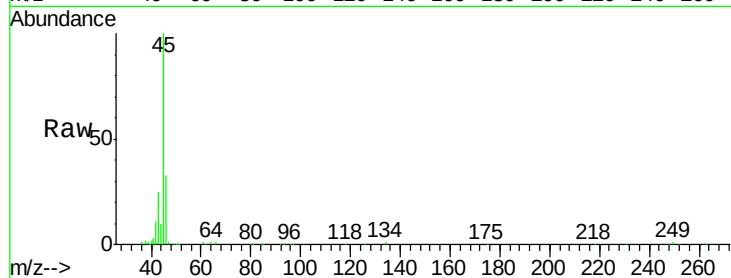
#13
Ethanol
Concen: 10.562 ppbv
RT: 3.57 min Scan# 243
Delta R.T. -0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 45 Resp: 215659
Ion Ratio Lower Upper
45 100
46 36.5 15.8 63.4

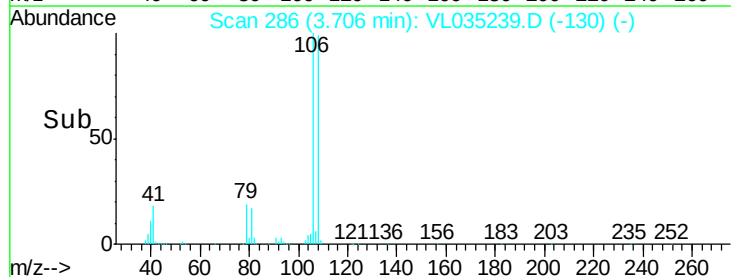
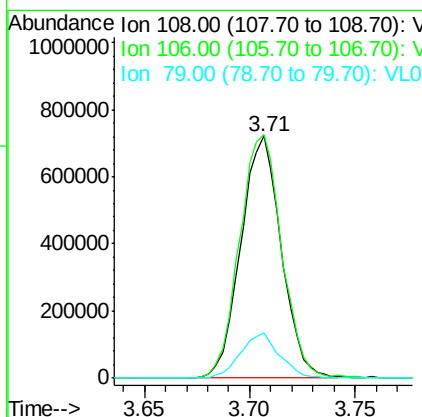
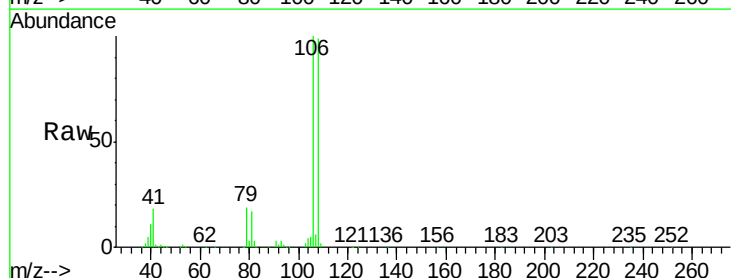
Manual Integrations
APPROVED

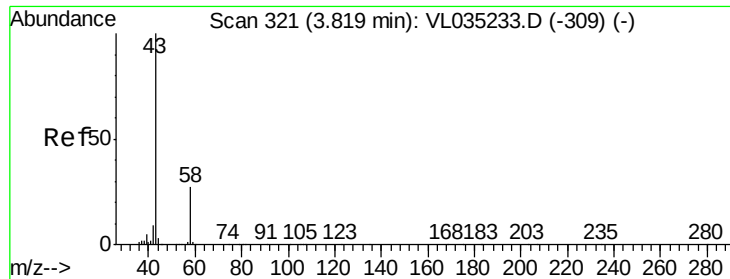
MMDadoda
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#14
Bromoethene
Concen: 13.954 ppbv
RT: 3.71 min Scan# 286
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Tgt Ion: 108 Resp: 962091
Ion Ratio Lower Upper
108 100
106 105.1 85.0 127.6
79 18.0 15.4 23.2





#15

Acetone

Concen: 11.183 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Tot Ion: 43 Resp: 2279654

Ion Ratio Lower Upper

43 100

58 26.9 21.8 32.6

Instrument :

MSVOA_L

ClientSampleId :

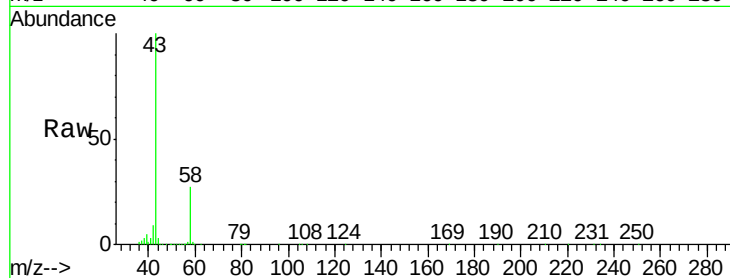
VSTDIC015

Manual Integrations

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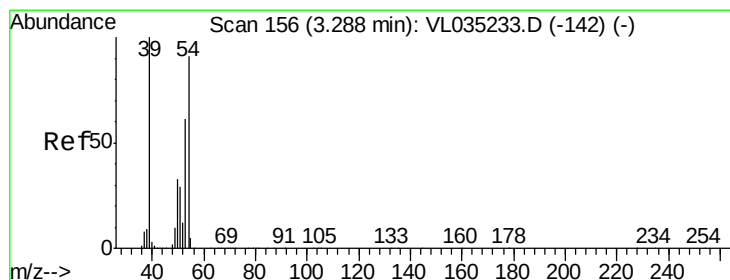
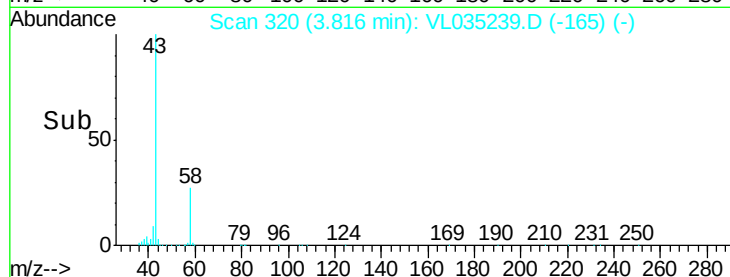
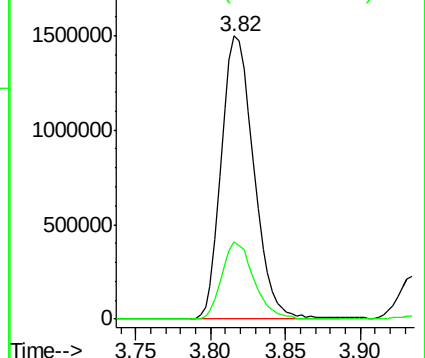
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 14.314 ppbv

RT: 3.29 min Scan# 156

Delta R.T. 0.00 min

Lab File: VL035239.D

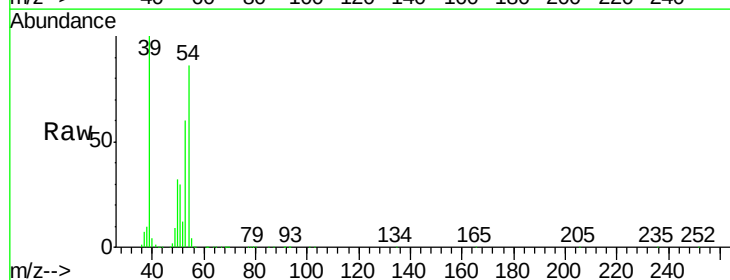
Acq: 29 Jul 2020 6:34

Tgt Ion: 39 Resp: 1117826

Ion Ratio Lower Upper

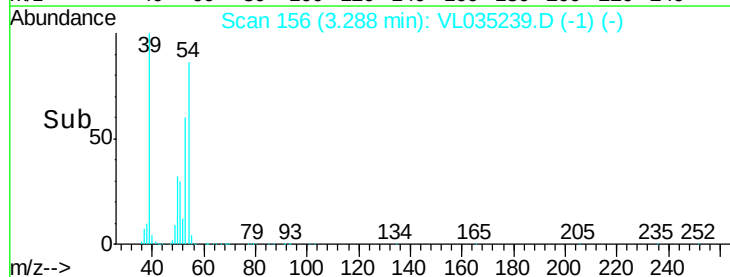
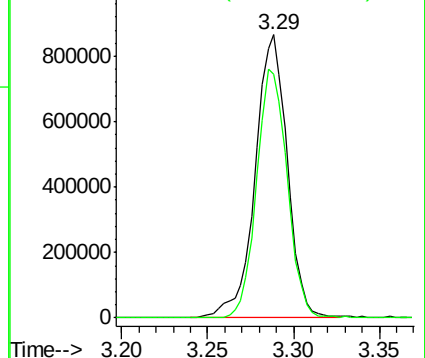
39 100

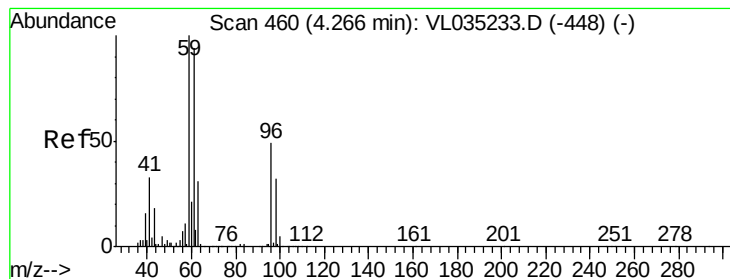
54 84.4 68.2 102.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

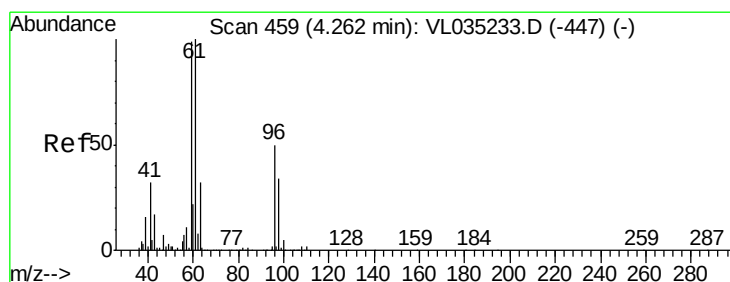
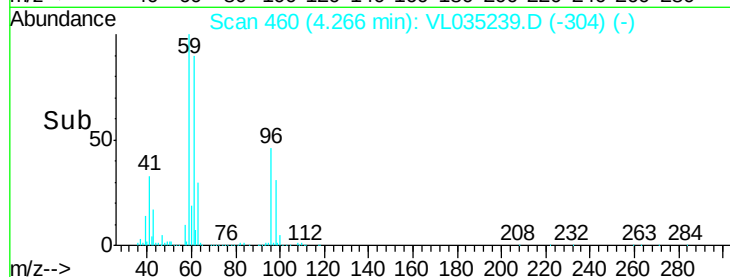
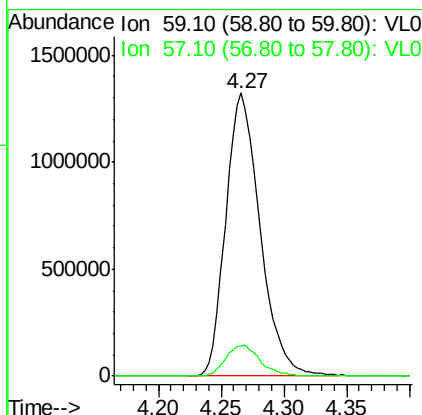
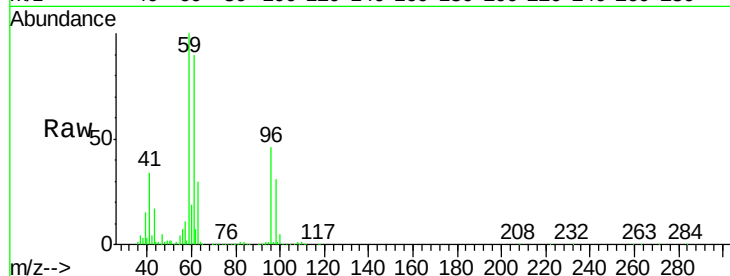
tert-Butyl alcohol
Concen: 13.799 ppbv
RT: 4.27 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 2511198
Ion Ratio Lower Upper
59 100
57 11.1 8.6 12.8

Manual Integrations
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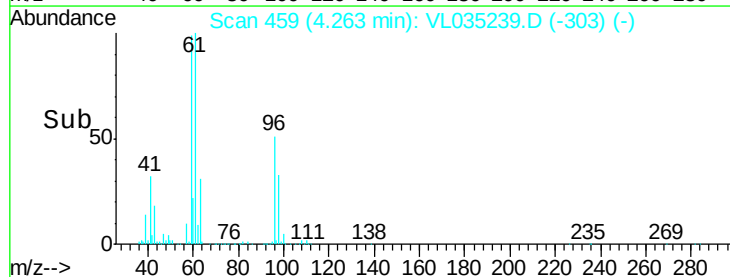
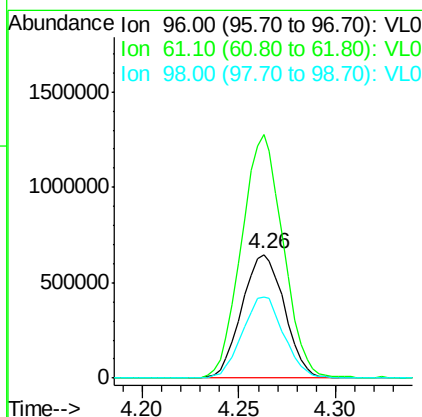
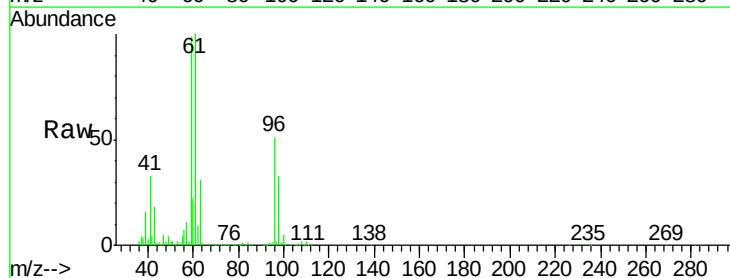
MMDadoda
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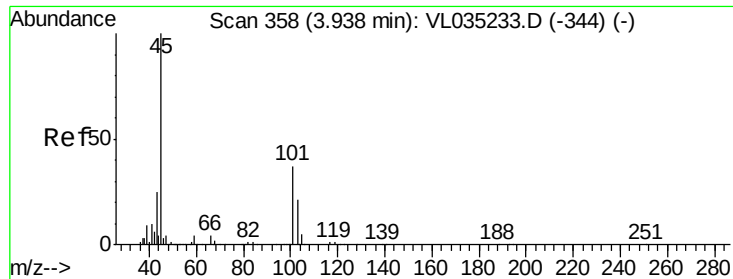


#18

1,1-Dichloroethene
Concen: 13.333 ppbv
RT: 4.26 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Tgt Ion: 96 Resp: 992120
Ion Ratio Lower Upper
96 100
61 197.2 159.4 239.2
98 65.3 53.9 80.9





#19

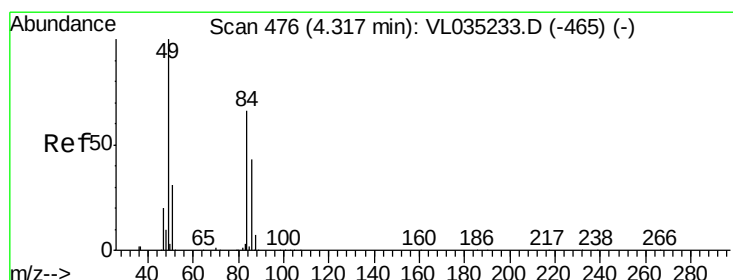
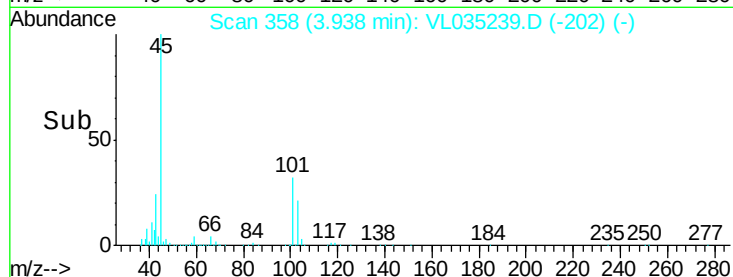
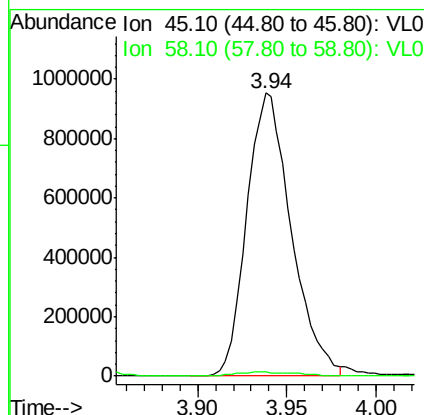
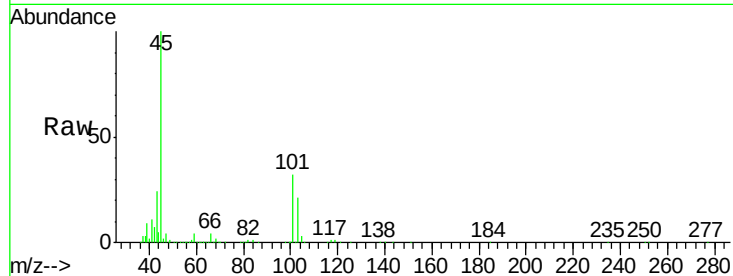
Isopropyl Alcohol
 Concen: 13.369 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VL035239.D
 Acq: 29 Jul 2020 6:34

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tot Ion: 45 Resp: 1661135
 Ion Ratio Lower Upper
 45 100
 58 2.3 1.9 2.9

Manual Integrations
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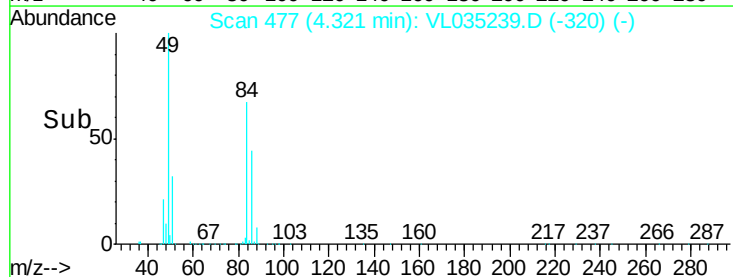
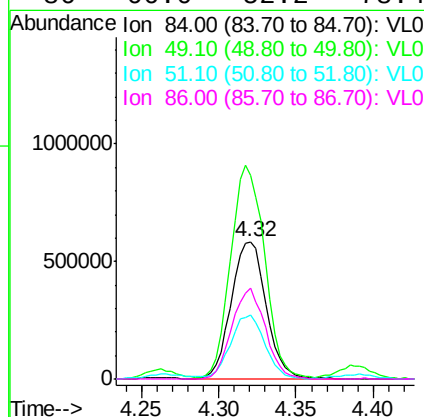
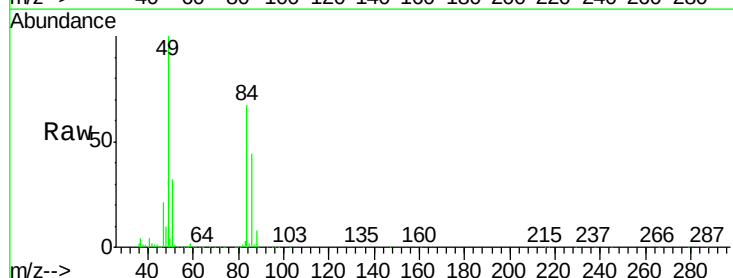
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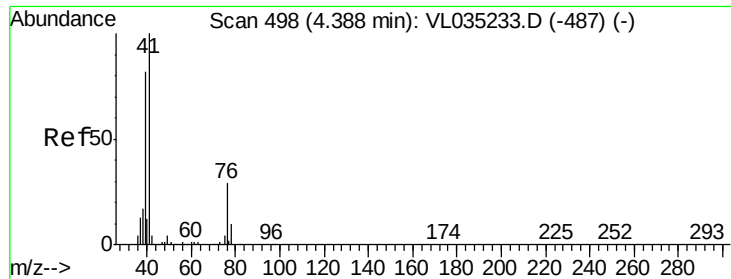


#20

Methylene Chloride
 Concen: 10.221 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. 0.00 min
 Lab File: VL035239.D
 Acq: 29 Jul 2020 6:34

Tgt Ion: 84 Resp: 910755
 Ion Ratio Lower Upper
 84 100
 49 147.2 121.0 181.4
 51 45.4 37.7 56.5
 86 66.0 52.2 78.4





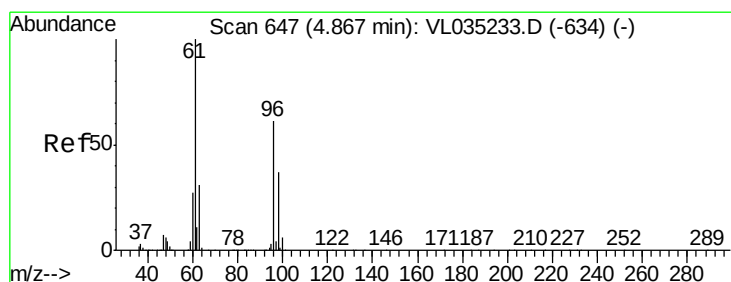
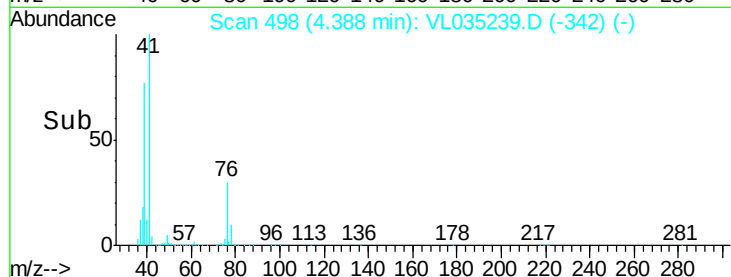
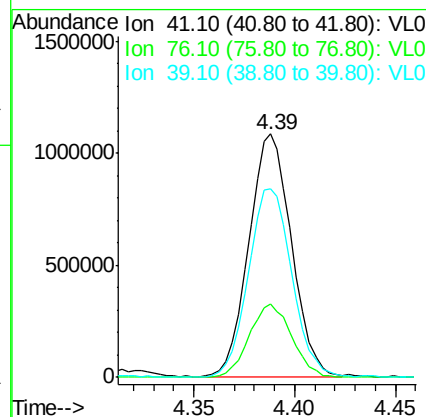
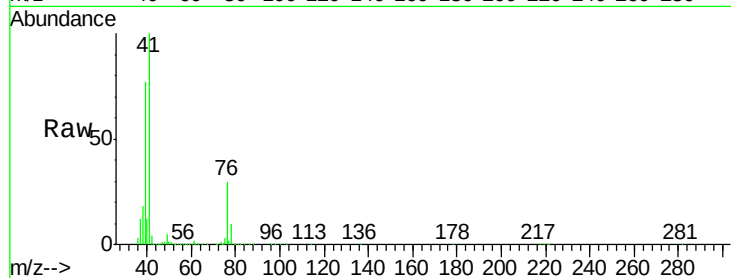
#21
Allvl Chloride
Concen: 13.433 ppbv
RT: 4.39 min Scan# 498
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.5	24.4	36.6
39	80.2	63.8	95.8

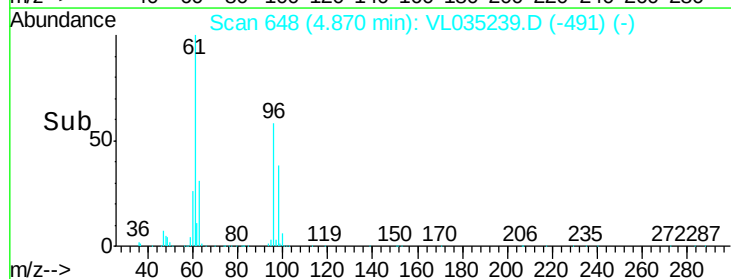
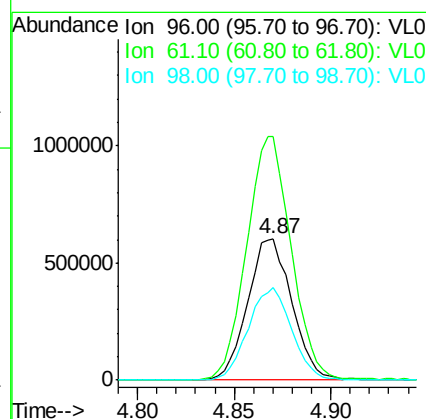
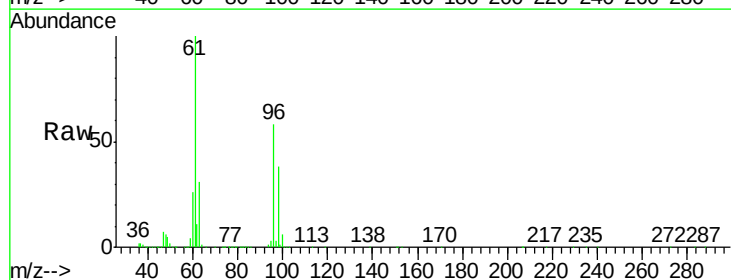
Manual Integrations
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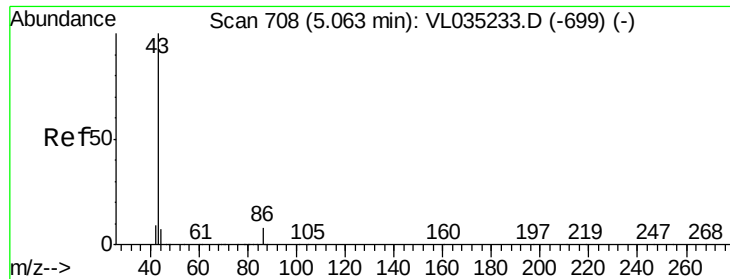
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#22
trans-1,2-Dichloroethene
Concen: 12.998 ppbv
RT: 4.87 min Scan# 648
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.9	131.6	197.4
98	64.9	49.0	73.4





#23

Vinyl Acetate

Concen: 13.793 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3005548

Ion Ratio Lower Upper

43 100

86 7.4 6.2 9.2

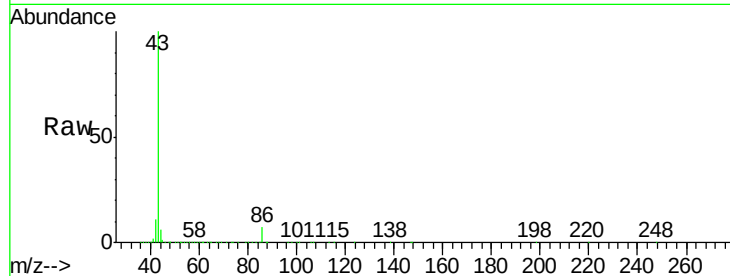
42 10.7 8.0 12.0

44 6.0 5.2 7.8

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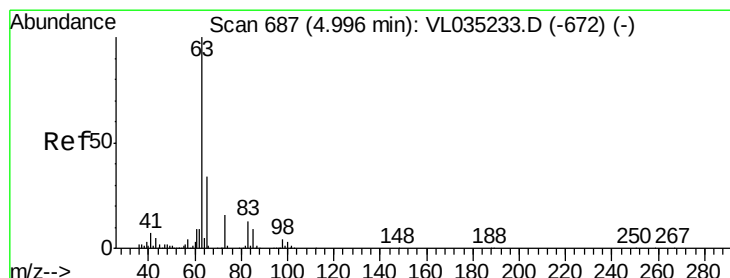
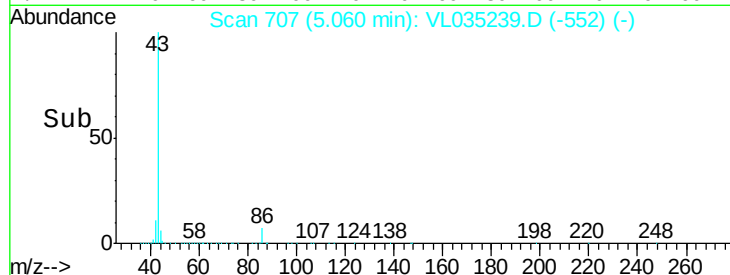
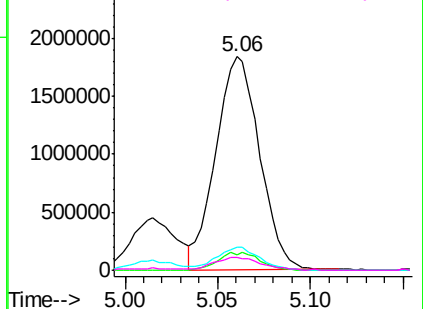


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 12.950 ppbv

RT: 5.00 min Scan# 687

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

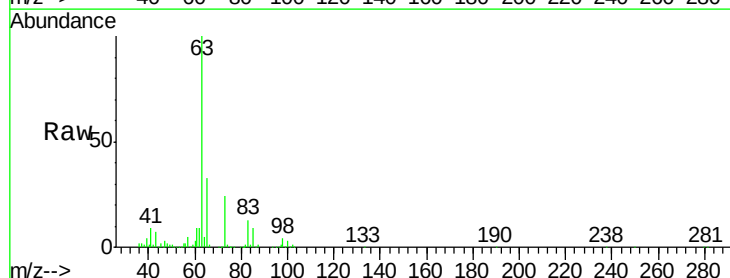
Tgt Ion: 63 Resp: 2450315

Ion Ratio Lower Upper

63 100

98 4.1 1.9 5.7

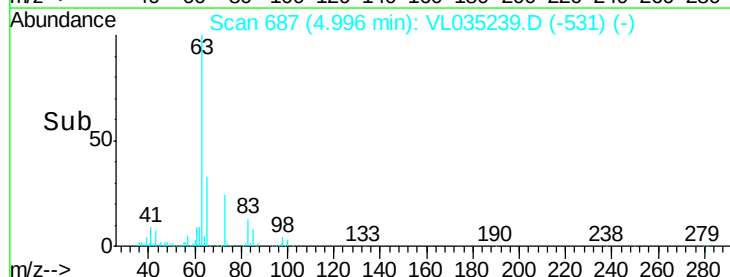
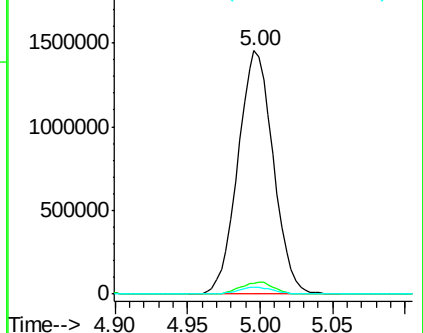
100 2.5 1.4 4.2

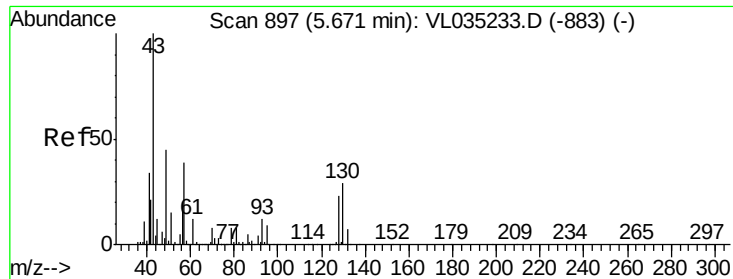


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





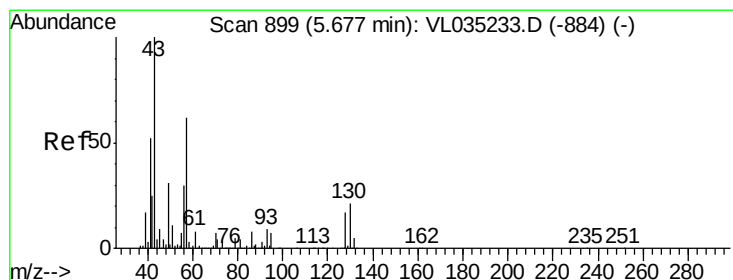
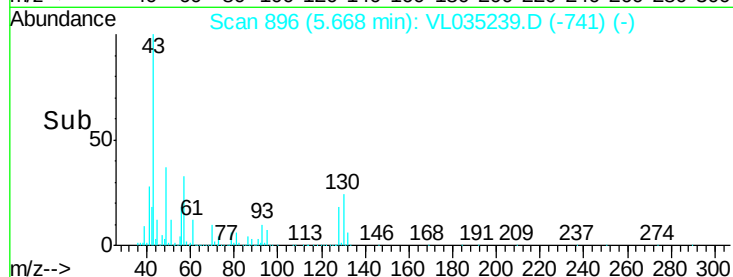
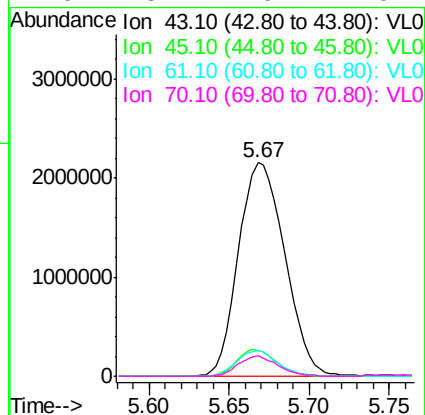
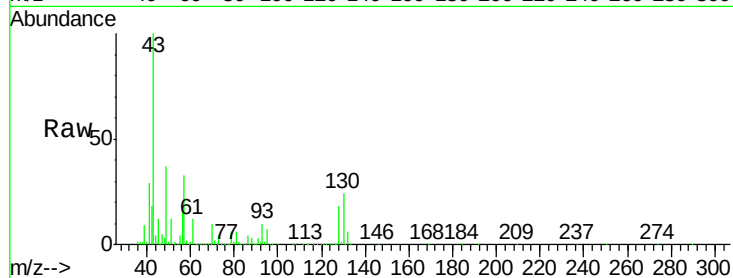
#25
Ethyl Acetate
Concen: 13.460 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	43	Resp	4249880
Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.5	12.7
61	10.5	8.1	12.1
70	8.1	6.2	9.4

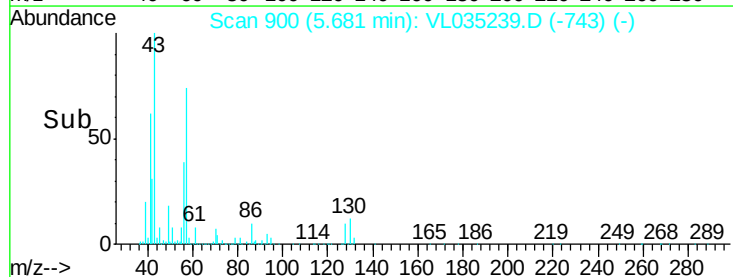
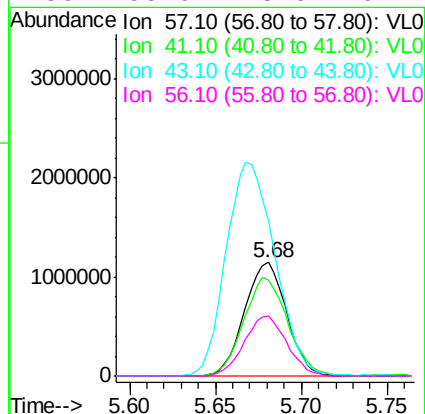
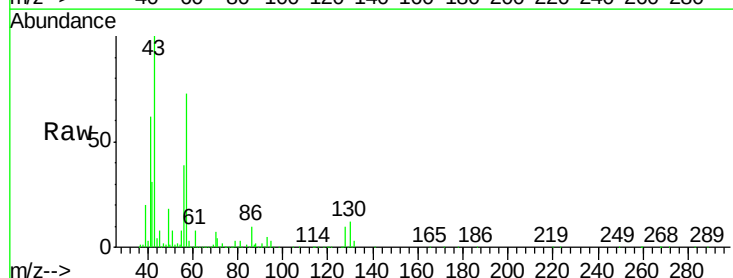
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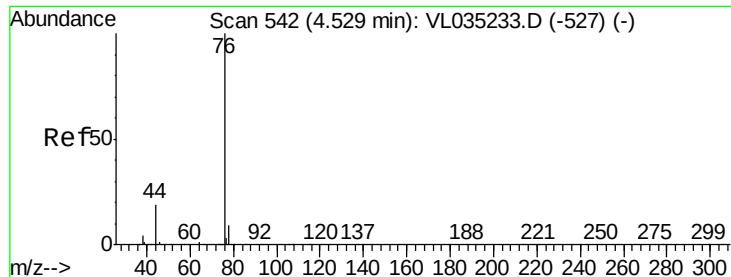
MMDadoda
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#26
Hexane
Concen: 13.960 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Tgt Ion	57	Resp	1947923
Ion	Ratio	Lower	Upper
57	100		
41	90.9	73.9	110.9
43	219.7	177.6	266.4
56	53.6	43.0	64.4





#27

Carbon Disulfide

Concen: 13.566 ppbv

RT: 4.53 min Scan# 541

Delta R.T. -0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2632610

Ion Ratio Lower Upper

76 100

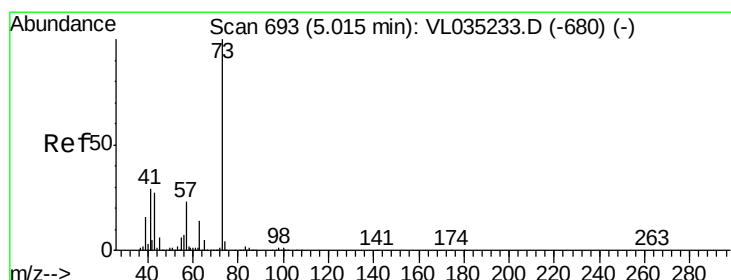
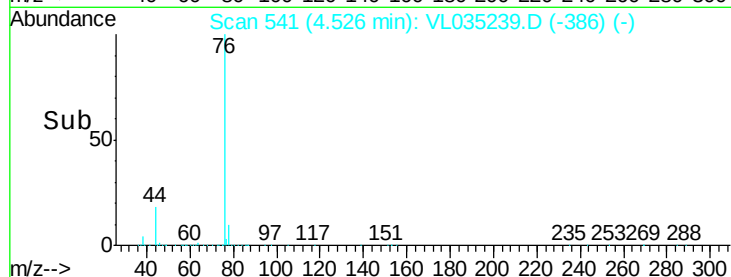
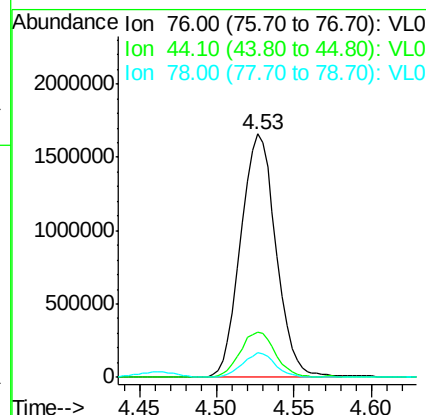
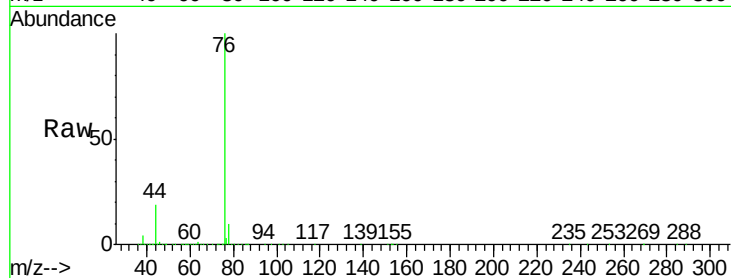
44 18.7 14.7 22.1

78 9.5 7.6 11.4

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 13.744 ppbv

RT: 5.02 min Scan# 693

Delta R.T. 0.00 min

Lab File: VL035239.D

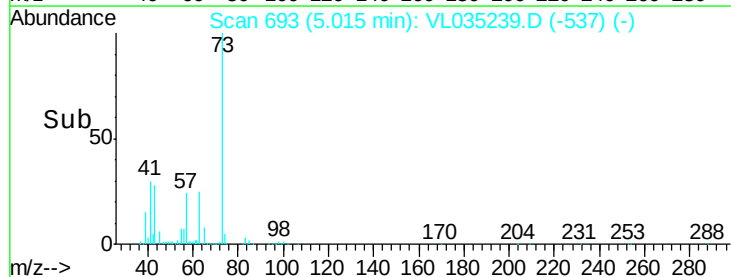
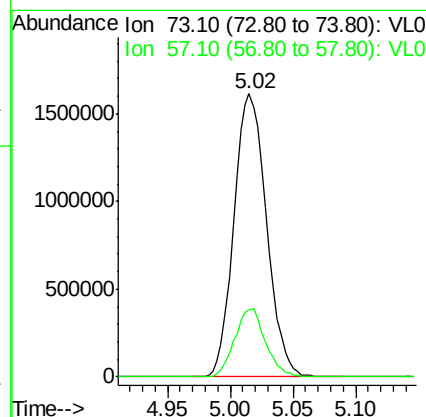
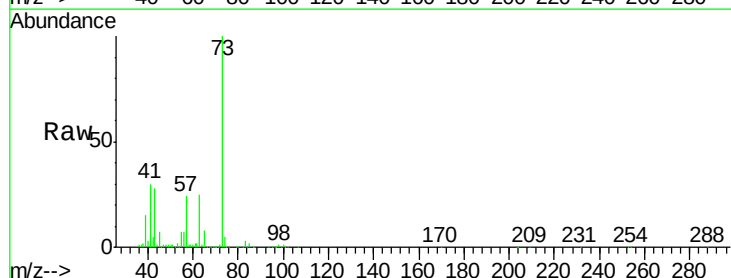
Acq: 29 Jul 2020 6:34

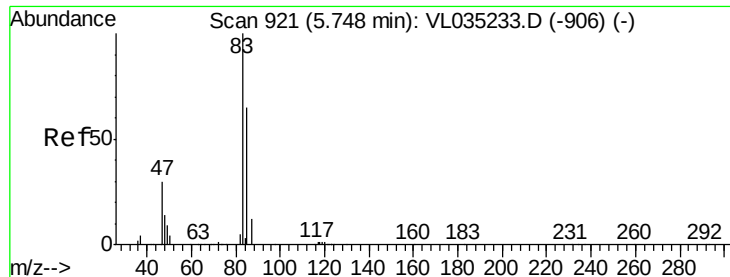
Tgt Ion: 73 Resp: 2910751

Ion Ratio Lower Upper

73 100

57 23.0 18.2 27.4





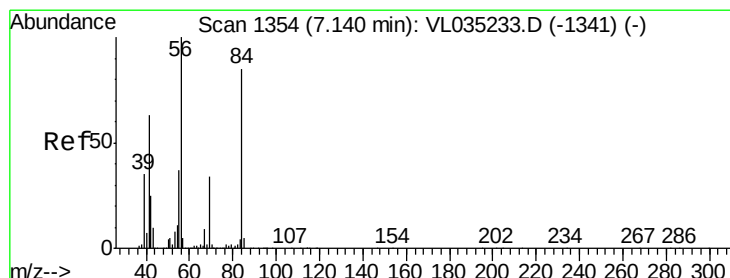
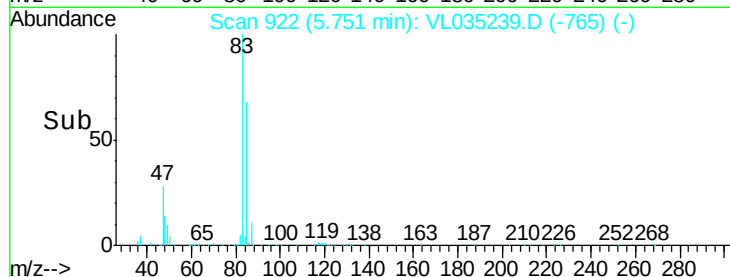
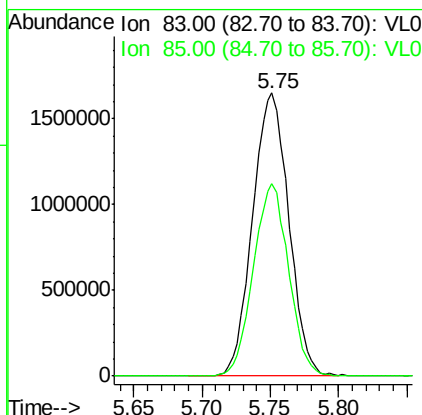
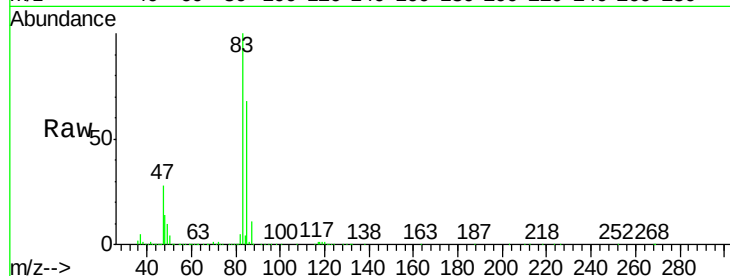
#29
Chloroform
Concen: 12.977 ppbv
RT: 5.75 min Scan# 922
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3042119
Ion Ratio Lower Upper
83 100
85 67.7 51.7 77.5

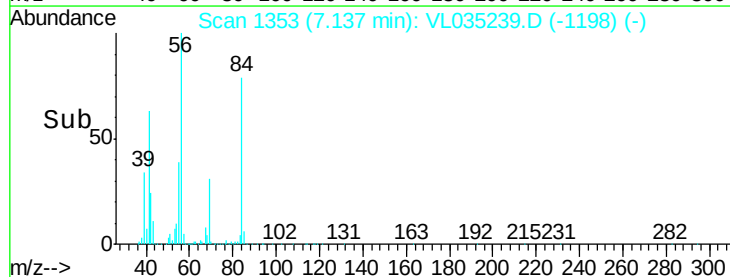
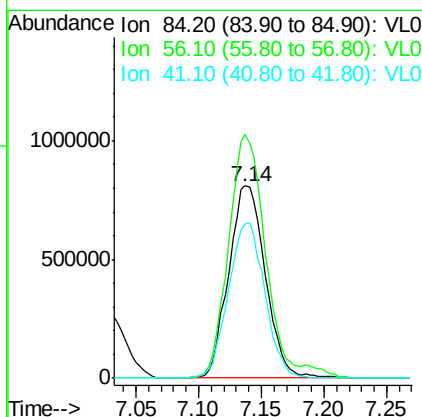
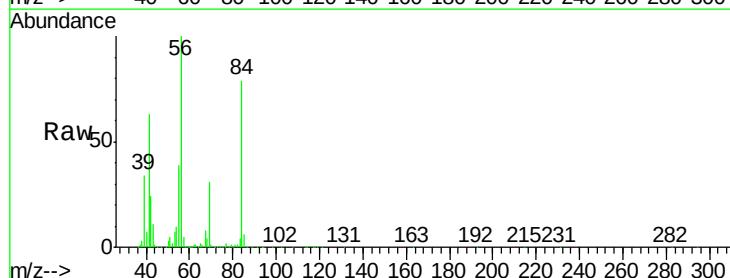
Manual Integrations
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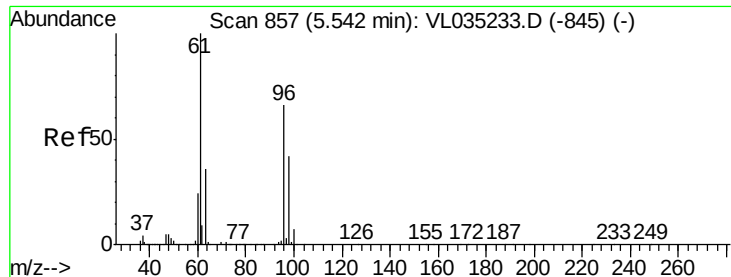
MMDadoda
7/30/2020 6:10:34 PM



#30
Cyclohexane
Concen: 15.954 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Tgt Ion: 84 Resp: 1644310
Ion Ratio Lower Upper
84 100
56 129.4 104.2 156.2
41 80.1 63.7 95.5





#31

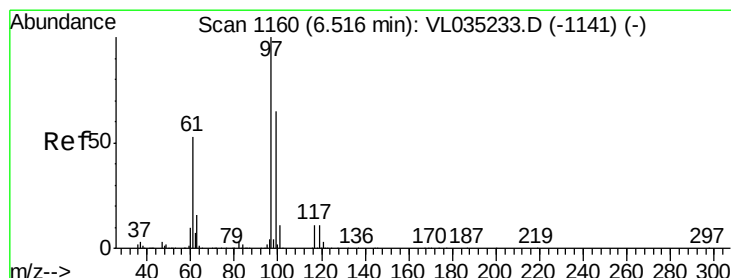
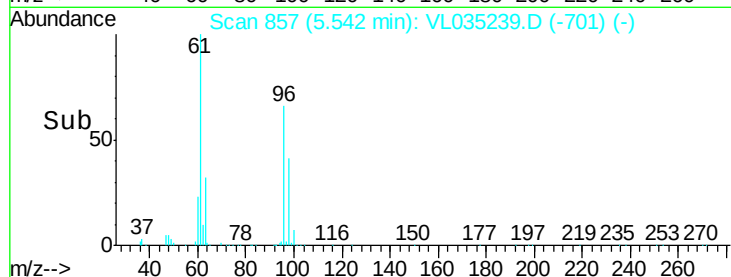
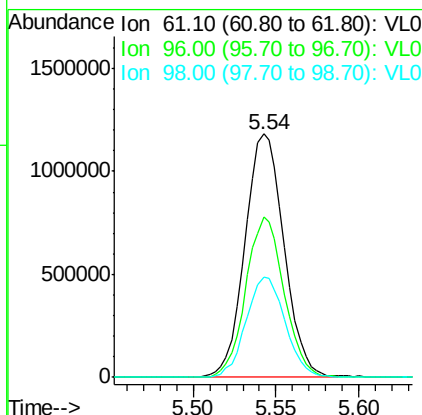
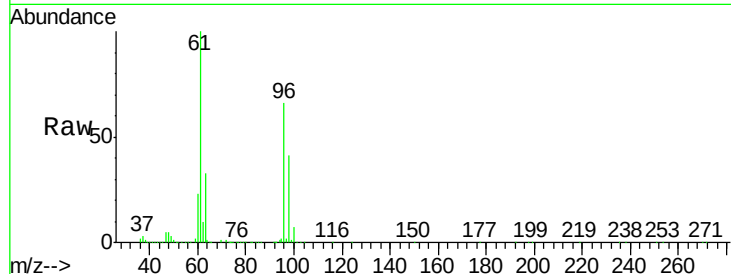
cis-1,2-Dichloroethene
 Concen: 14.802 ppbv
 RT: 5.54 min Scan# 857
 Delta R.T. 0.00 min
 Lab File: VL035239.D
 Acq: 29 Jul 2020 6:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
61	100			
96	65.8	52.6	78.8	
98	41.1	33.7	50.5	

Manual Integrations
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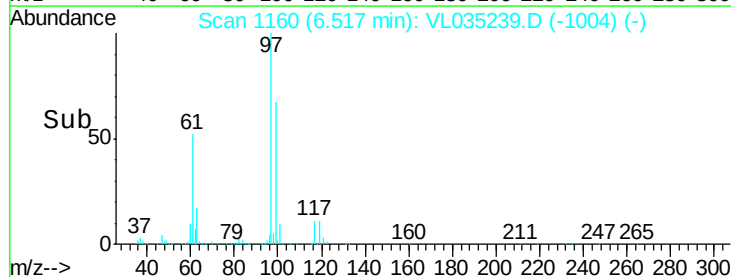
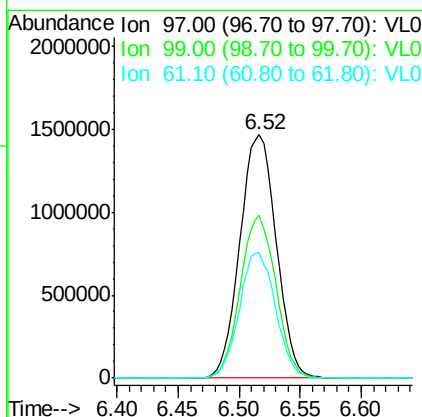
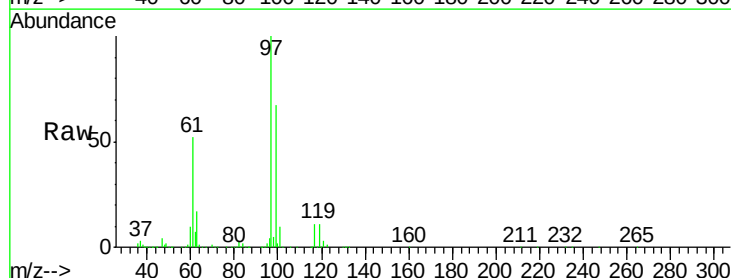
MMDadoda
 7/30/2020 6:10:34 PM

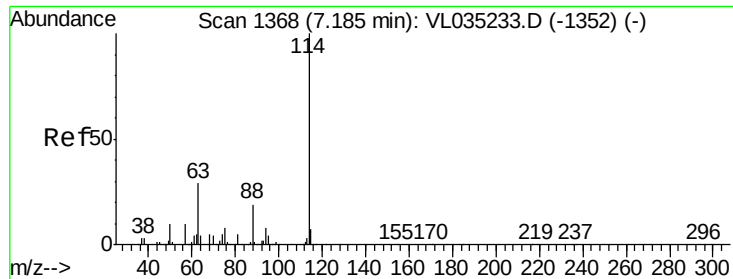


#32

1,1,1-Trichloroethane
 Concen: 12.855 ppbv
 RT: 6.52 min Scan# 1160
 Delta R.T. 0.00 min
 Lab File: VL035239.D
 Acq: 29 Jul 2020 6:34

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	65.4	51.4	77.0	
61	51.5	40.4	60.6	





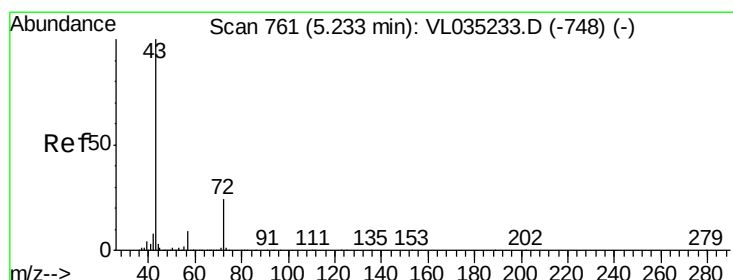
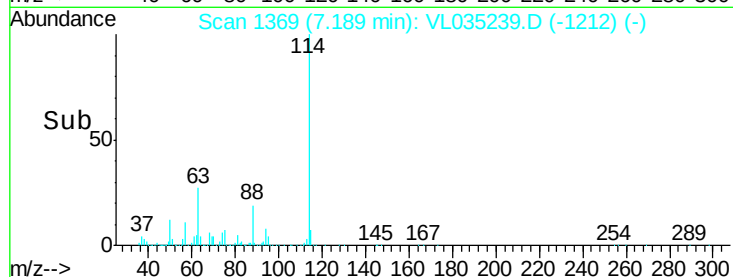
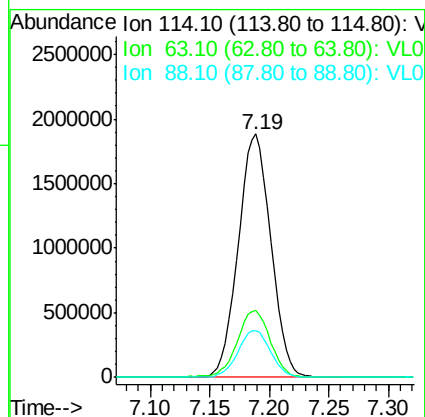
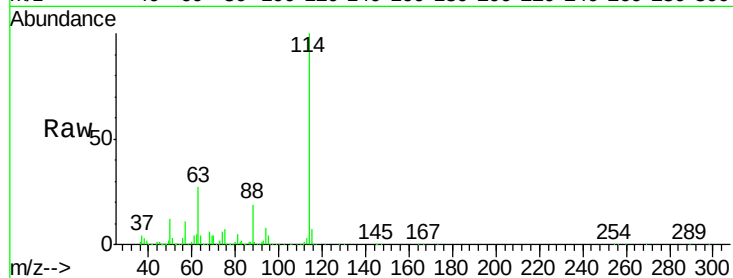
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.2	22.2	33.2
88	19.3	15.4	23.0

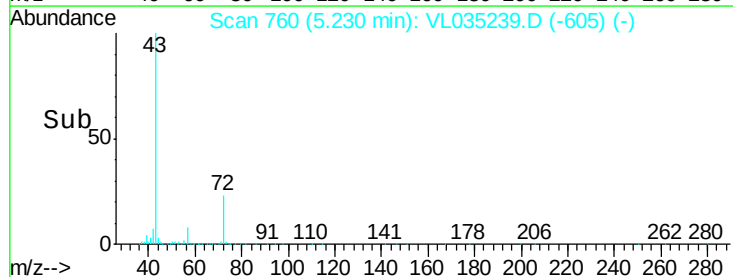
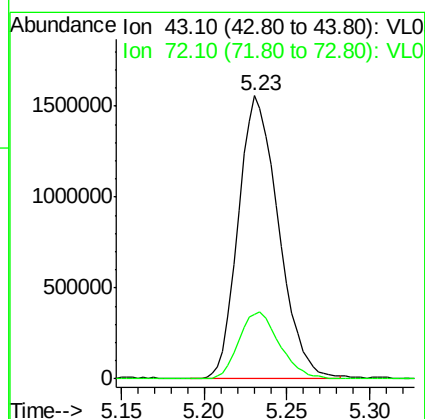
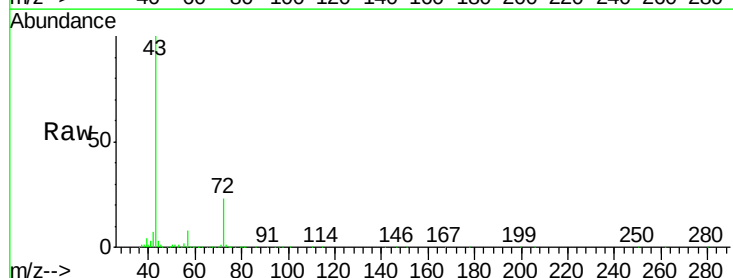
Manual Integrations
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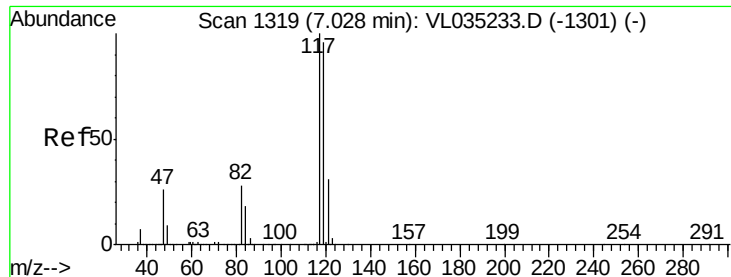
MMDadoda
7/30/2020 6:10:34 PM



#34
2-Butanone
Concen: 13.759 ppbv
RT: 5.23 min Scan# 760
Delta R.T. -0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.0	19.2	28.8





#35

Carbon Tetrachloride

Concen: 13.425 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3140333

Ion Ratio Lower Upper

117 100

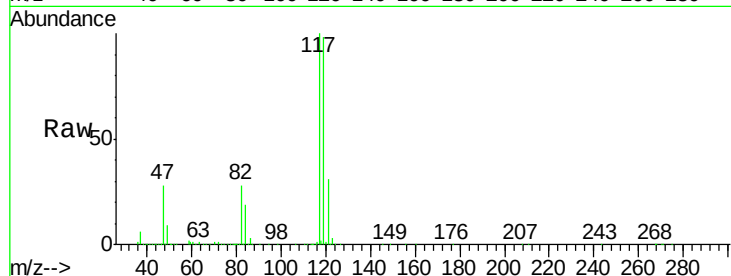
119 98.3 76.8 115.2

121 31.4 24.5 36.7

Manual Integrations
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MMDadoda

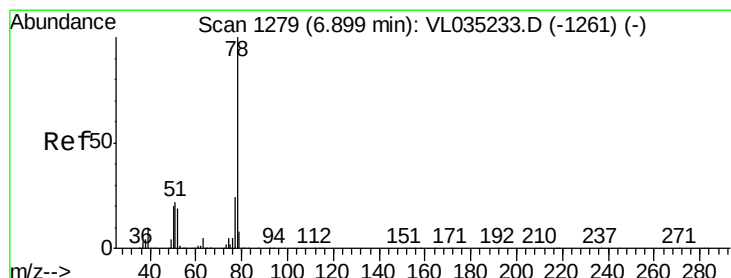
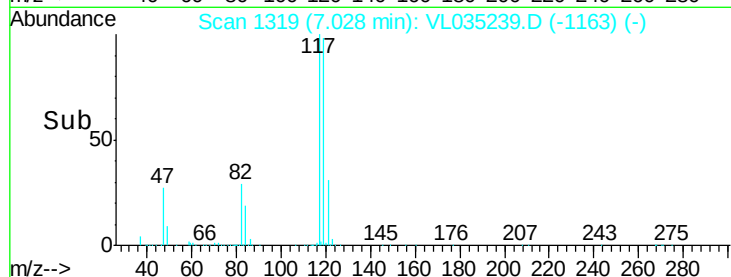
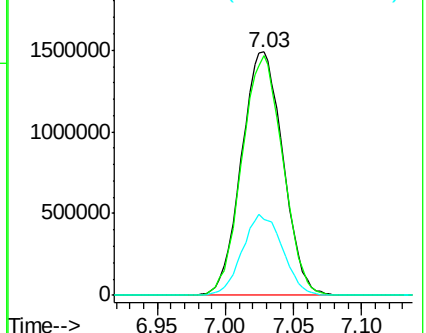
7/30/2020 6:10:34 PM



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



#36

Benzene

Concen: 14.539 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

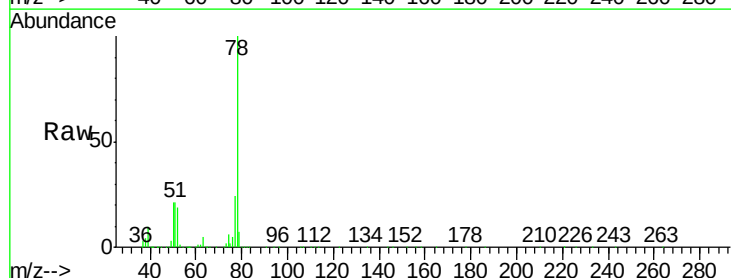
Tgt Ion: 78 Resp: 3771960

Ion Ratio Lower Upper

78 100

77 23.7 18.9 28.3

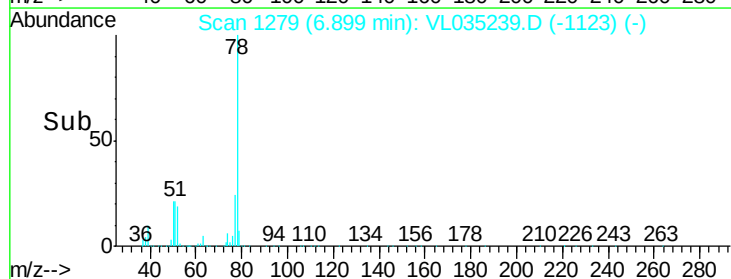
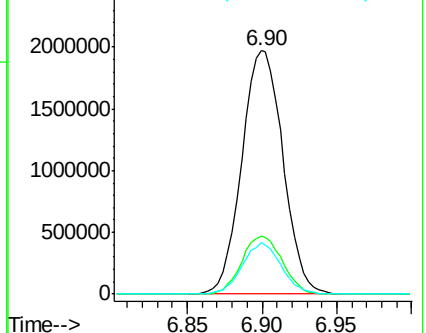
50 21.4 16.1 24.1

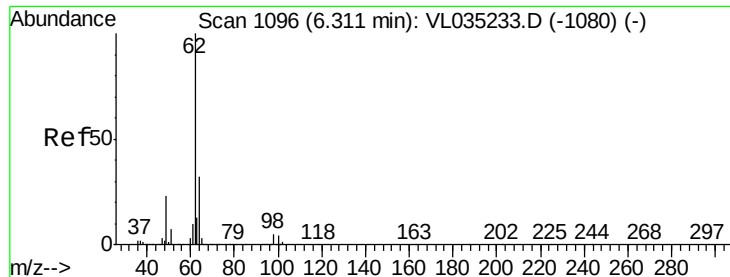


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





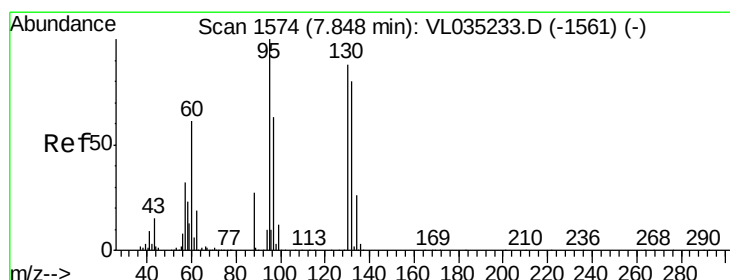
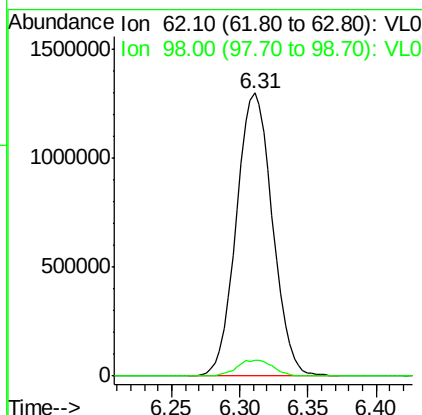
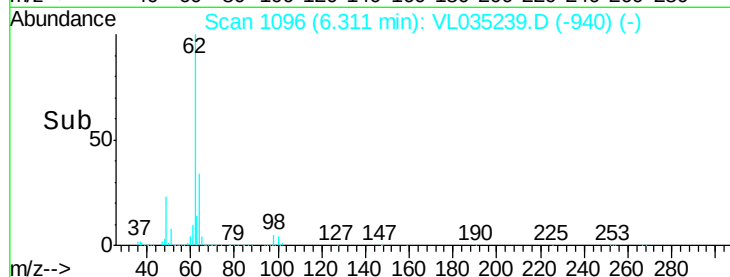
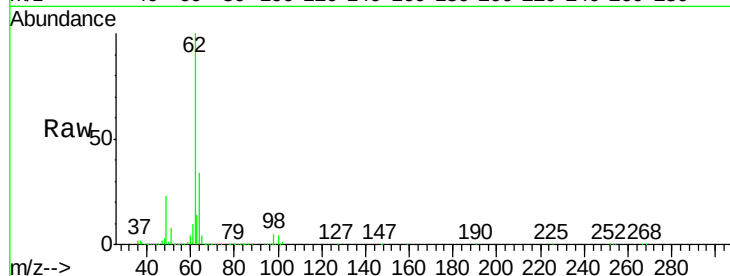
#37
 1,2-Dichloroethane
 Concen: 13.640 ppbv
 RT: 6.31 min Scan# 1096
 Delta R.T. 0.00 min
 Lab File: VL035239.D
 Acq: 29 Jul 2020 6:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.7	4.5	6.7

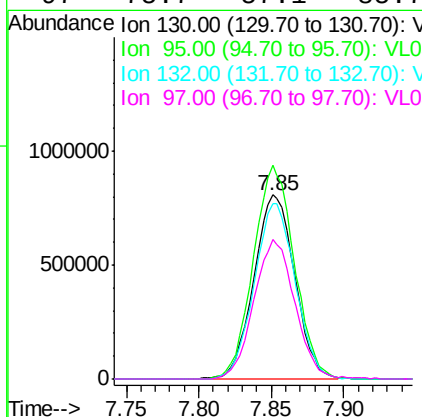
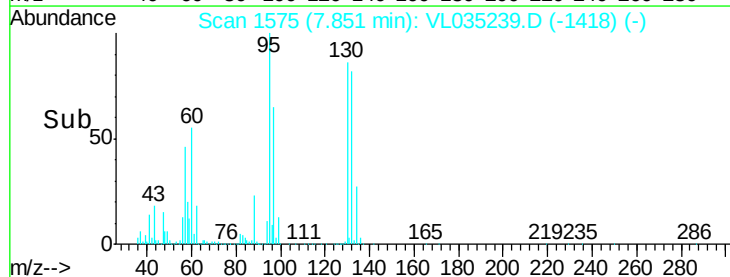
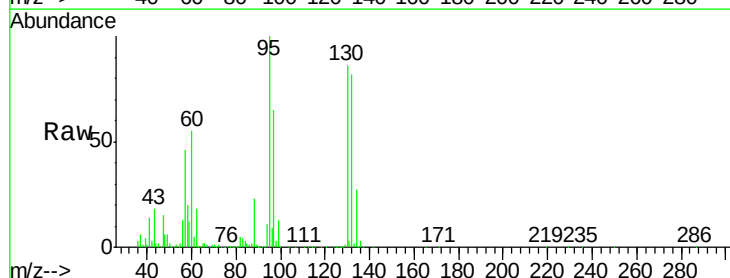
Manual Integrations
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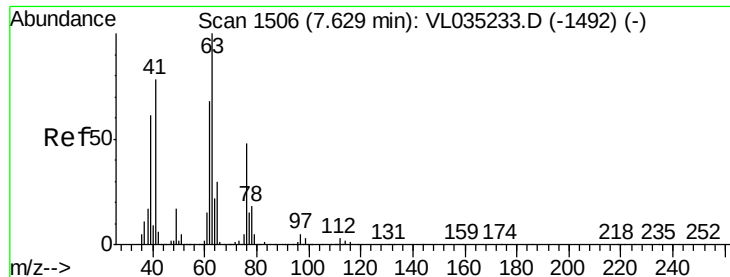
MMDadoda
 7/30/2020 6:10:34 PM



#38
 Trichloroethene
 Concen: 14.820 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VL035239.D
 Acq: 29 Jul 2020 6:34

Tgt Ion	Ratio	Lower	Upper
130	100		
95	116.3	90.7	136.1
132	95.6	72.9	109.3
97	75.7	57.1	85.7





#39

1,2-Dichloropropane

Concen: 14.536 ppbv

RT: 7.63 min Scan# 1506

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1508658

Ion Ratio Lower Upper

63 100

41 75.1 62.2 93.4

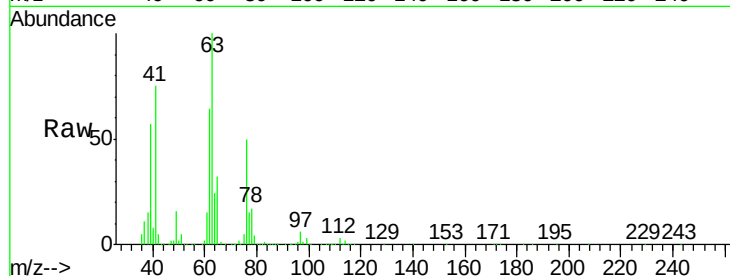
62 64.5 54.2 81.2

Manual Integrations

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MMDadoda

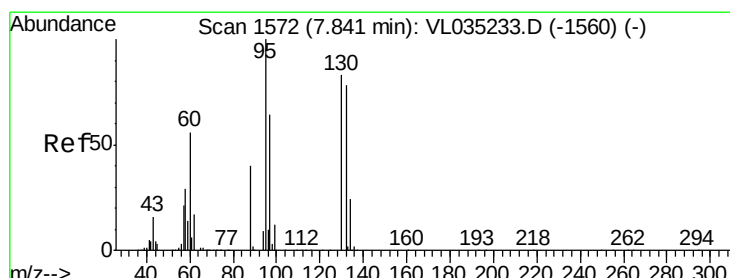
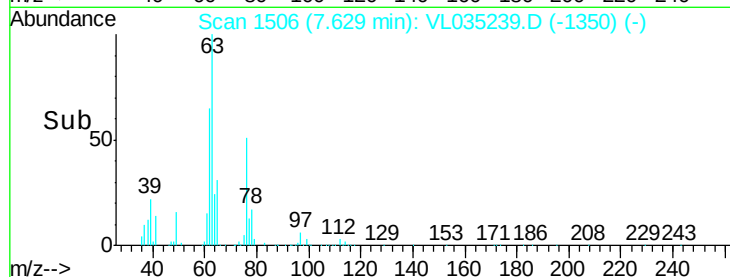
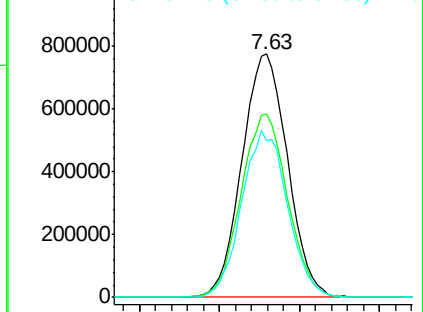
7/30/2020 6:10:34 PM



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 14.267 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Tgt Ion: 88 Resp: 590227

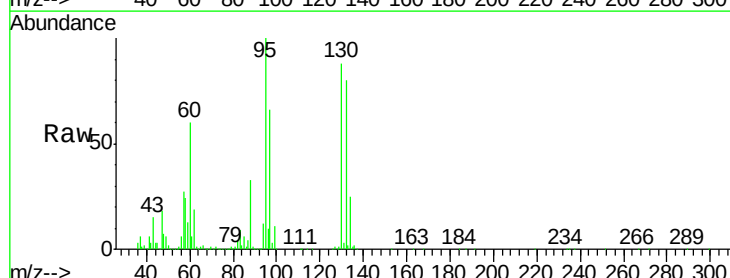
Ion Ratio Lower Upper

88 100

58 129.0 99.3 148.9

43 0.0 195.6 293.4#

57 0.0 854.3 1281.5#

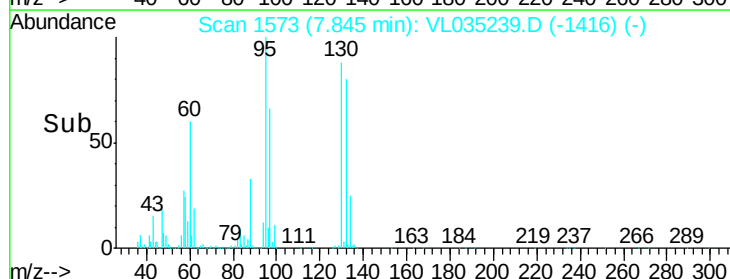
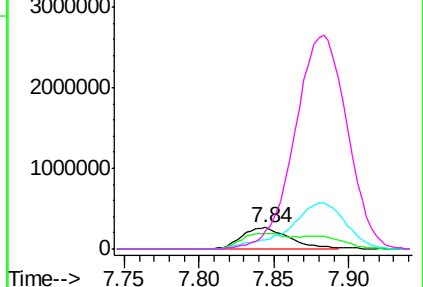


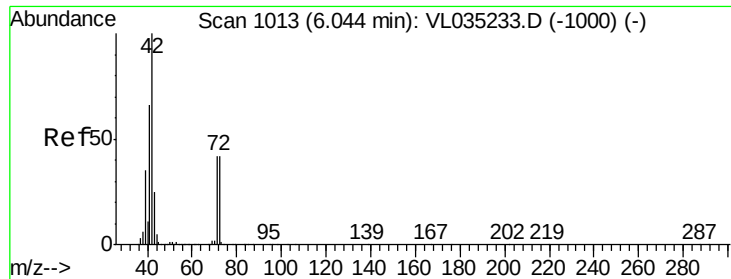
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 15.439 ppbv

RT: 6.04 min Scan# 1012

Delta R.T. -0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1467450

Ion Ratio Lower Upper

42 100

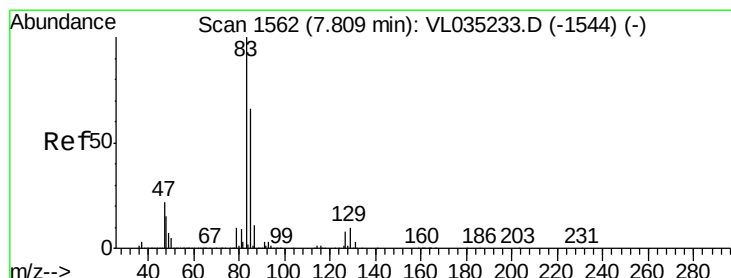
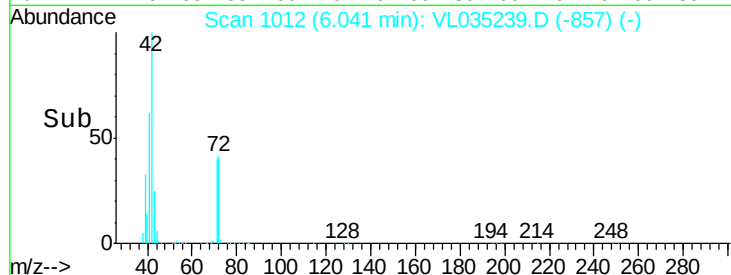
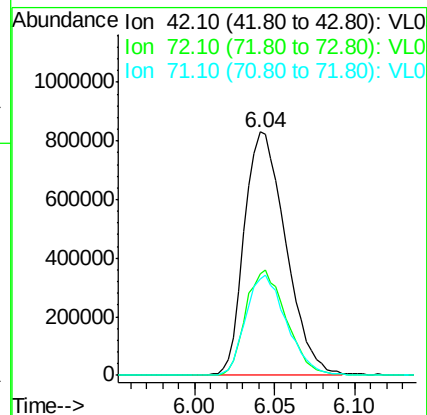
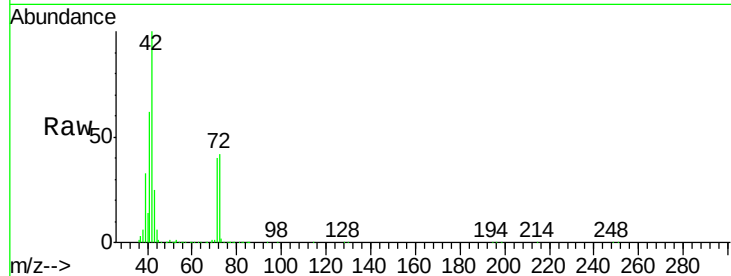
72 42.4 34.2 51.2

71 40.4 33.2 49.8

Manual Integrations
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#42

Bromodichloromethane

Concen: 14.152 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

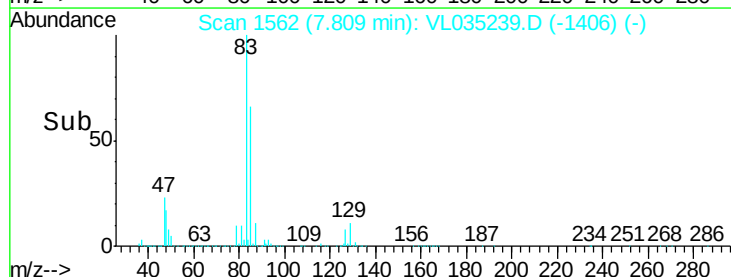
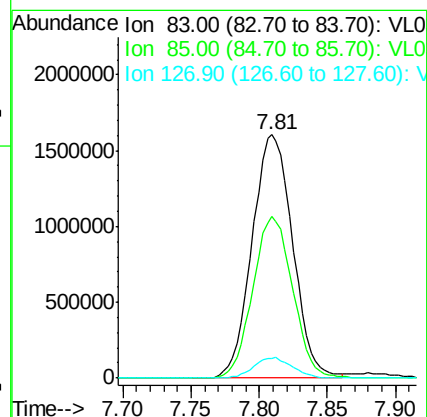
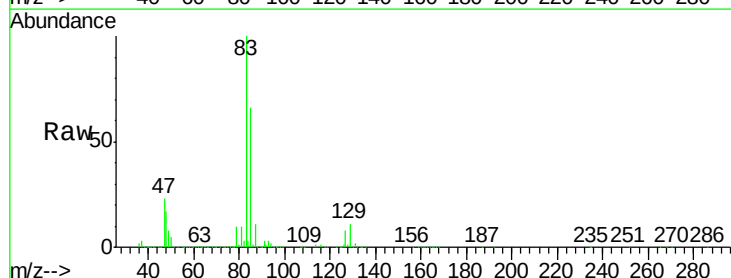
Tgt Ion: 83 Resp: 3310422

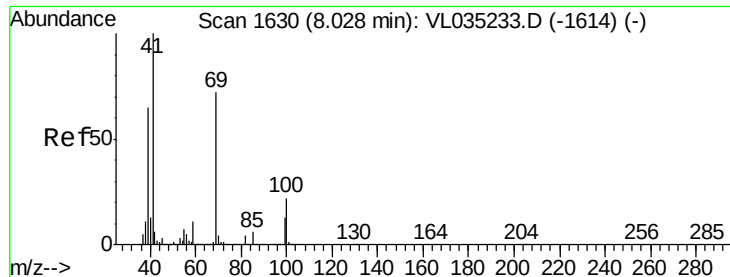
Ion Ratio Lower Upper

83 100

85 66.2 52.9 79.3

127 8.2 6.5 9.7





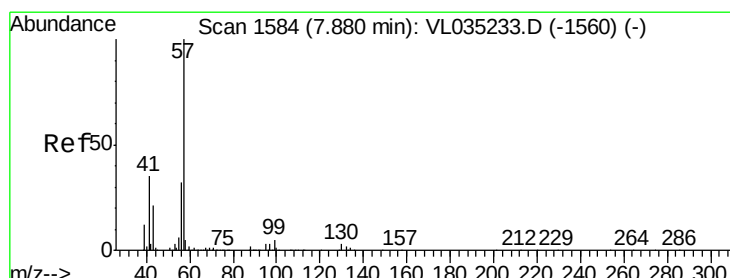
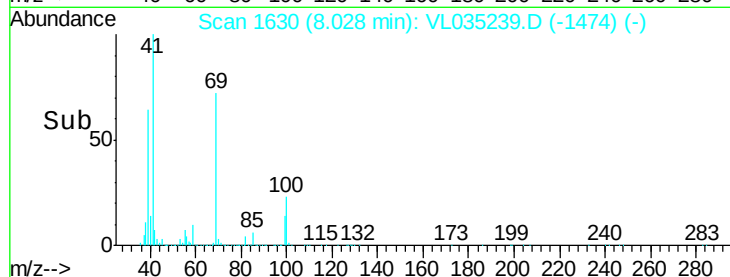
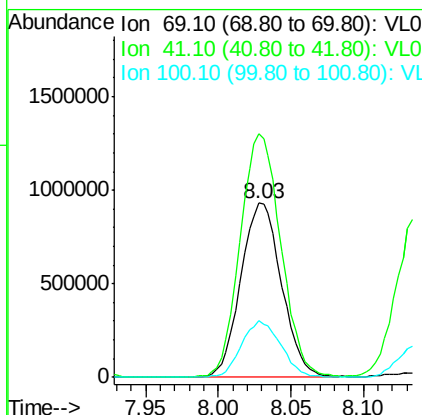
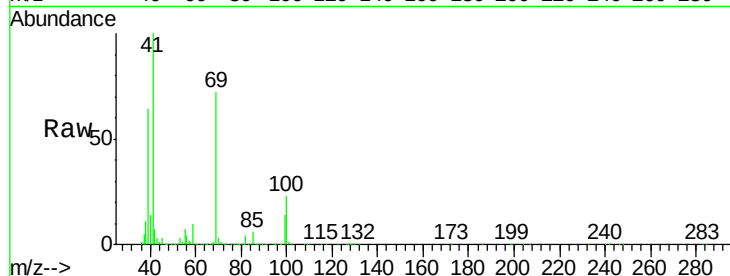
#43
Methyl Methacrylate
Concen: 16.428 ppbv
RT: 8.03 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1813726
Ion Ratio Lower Upper
69 100
41 139.7 113.0 169.4
100 31.8 25.3 37.9

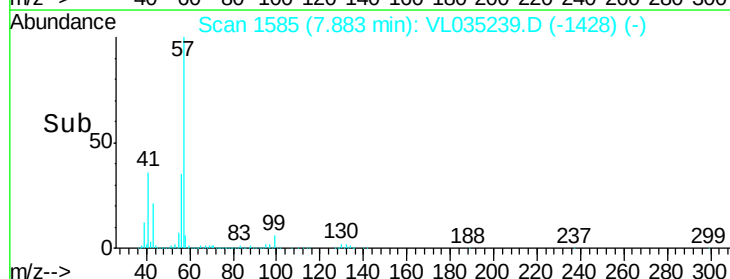
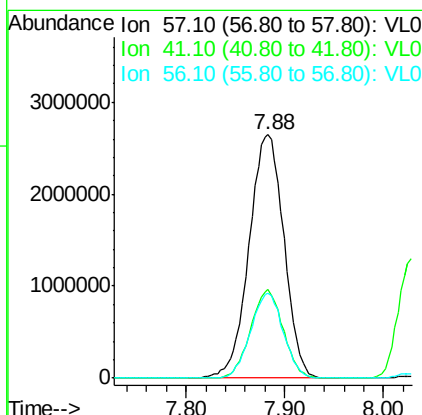
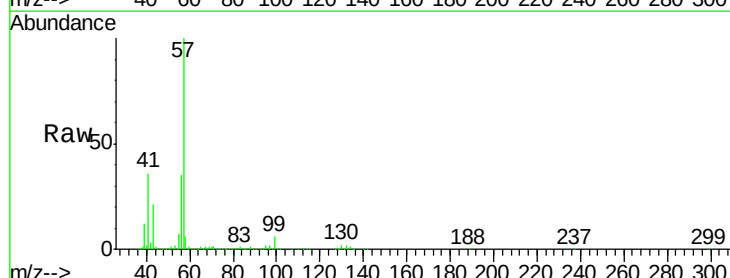
Manual Integrations
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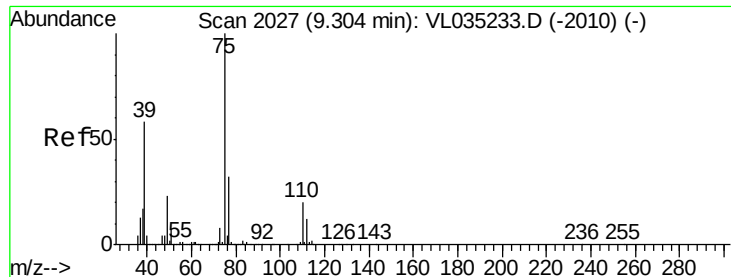
MMDadoda
7/30/2020 6:10:34 PM



#44
2,2,4-Trimethylpentane
Concen: 14.325 ppbv
RT: 7.88 min Scan# 1585
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Tgt Ion: 57 Resp: 6440838
Ion Ratio Lower Upper
57 100
41 34.0 27.0 40.4
56 32.7 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 17.788 ppbv

RT: 9.30 min Scan# 2027

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 2054488

Ion Ratio Lower Upper

75 100

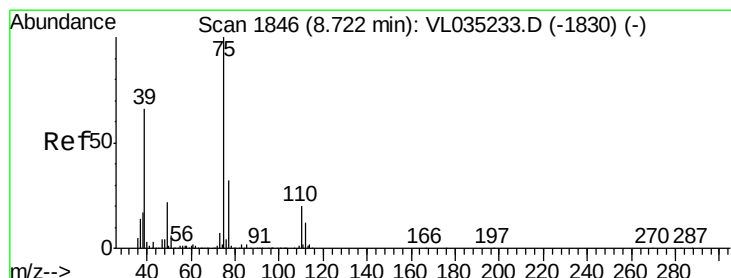
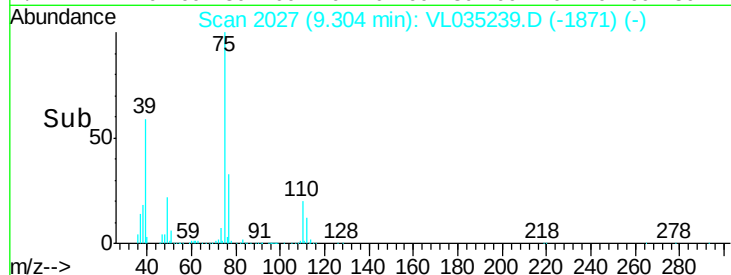
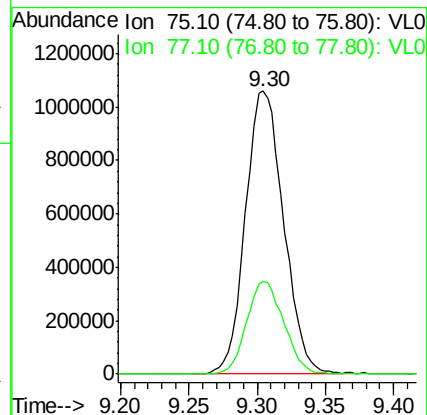
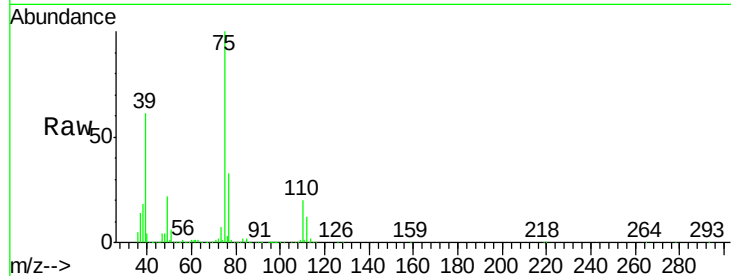
77 32.9 25.6 38.4

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#46

cis-1,3-Dichloropropene

Concen: 17.405 ppbv

RT: 8.72 min Scan# 1846

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

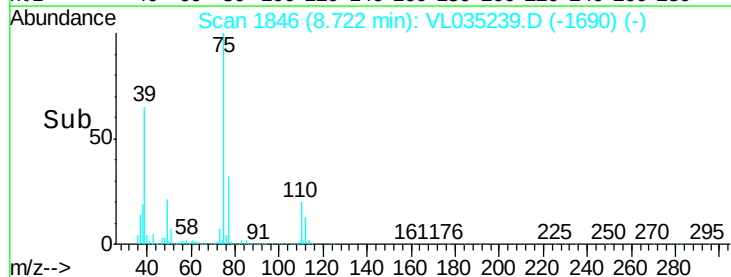
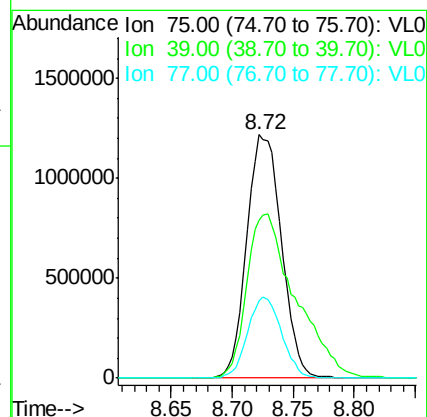
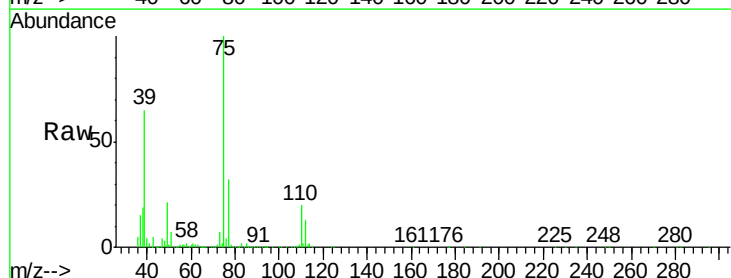
Tgt Ion: 75 Resp: 2391841

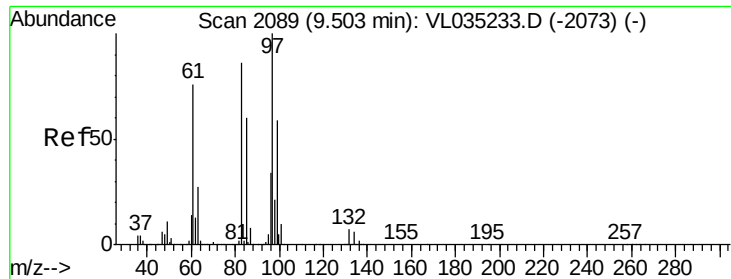
Ion Ratio Lower Upper

75 100

39 64.7 53.0 79.4

77 31.9 25.8 38.8





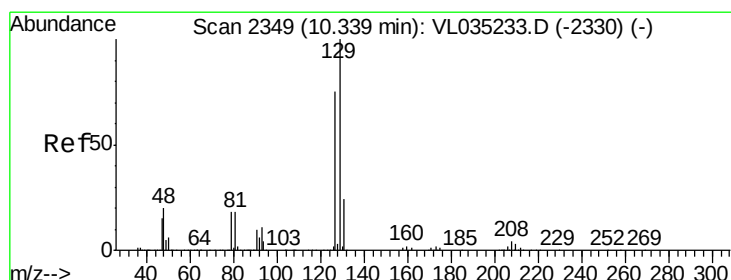
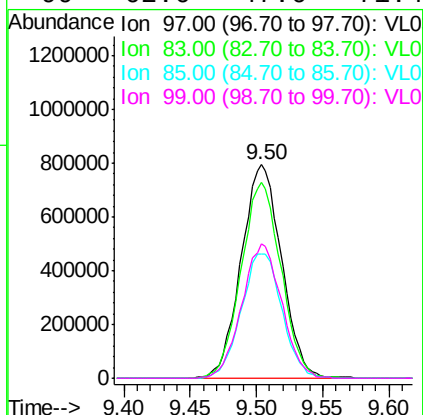
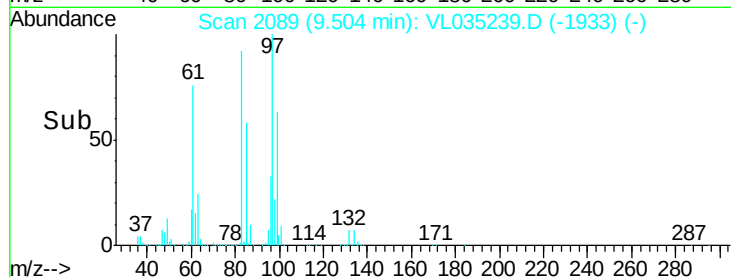
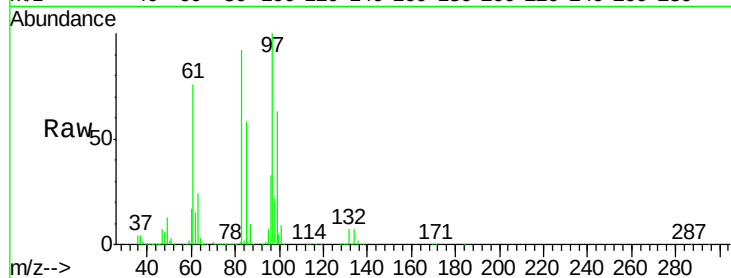
#47
 1,1,2-Trichloroethane
 Concen: 14.713 ppbv
 RT: 9.50 min Scan# 2089
 Delta R.T. 0.00 min
 Lab File: VL035239.D
 Acq: 29 Jul 2020 6:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
97	100		
83	91.8	69.0	103.4
85	58.0	47.8	71.8
99	62.6	47.6	71.4

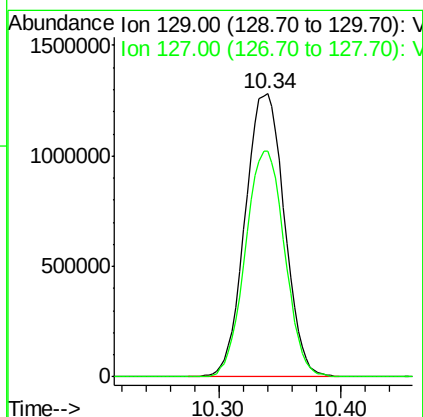
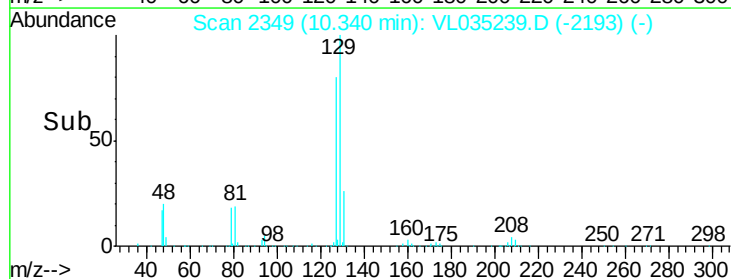
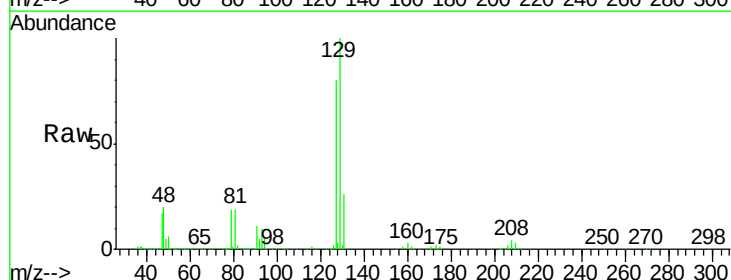
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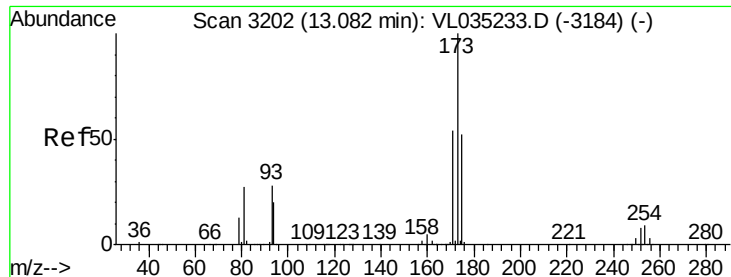
MMDadoda
 7/30/2020 6:10:34 PM



#48
 Dibromochloromethane
 Concen: 15.392 ppbv
 RT: 10.34 min Scan# 2349
 Delta R.T. 0.00 min
 Lab File: VL035239.D
 Acq: 29 Jul 2020 6:34

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.0	39.6	119.0





#49

Bromoform

Concen: 15.950 ppbv

RT: 13.09 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2607644

Ion Ratio Lower Upper

173 100

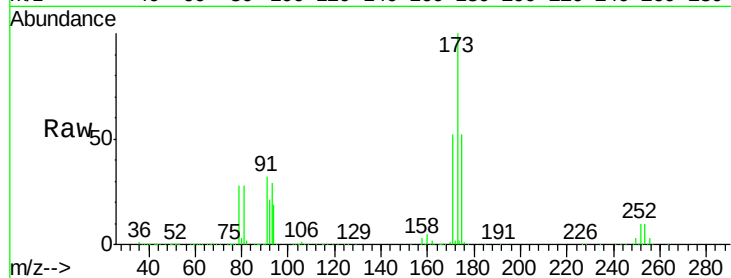
175 50.0 40.0 60.0

171 52.3 41.8 62.8

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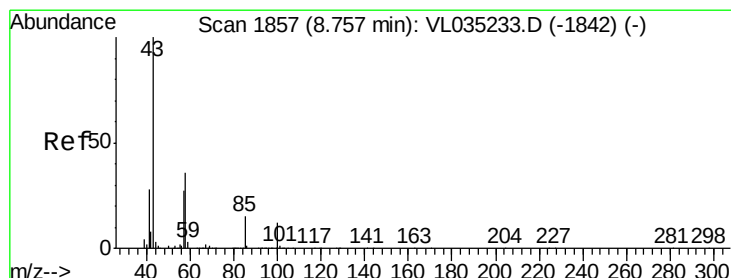
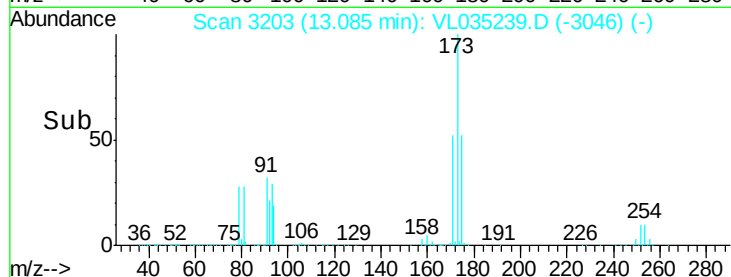
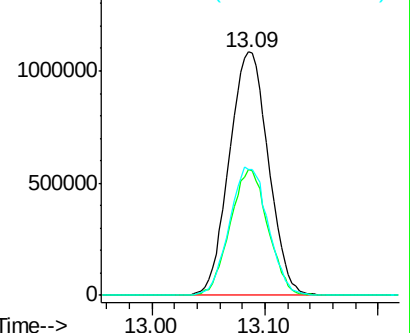
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 15.134 ppbv

RT: 8.76 min Scan# 1857

Delta R.T. 0.00 min

Lab File: VL035239.D

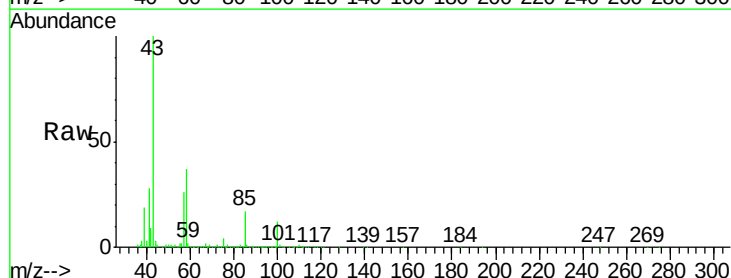
Acq: 29 Jul 2020 6:34

Tgt Ion: 43 Resp: 4161801

Ion Ratio Lower Upper

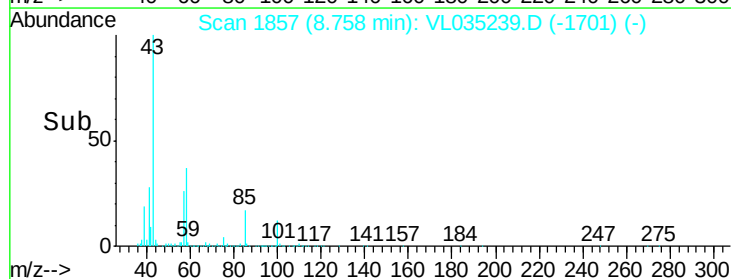
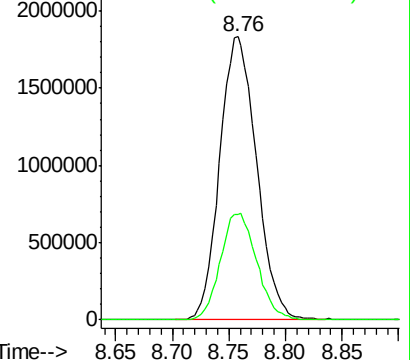
43 100

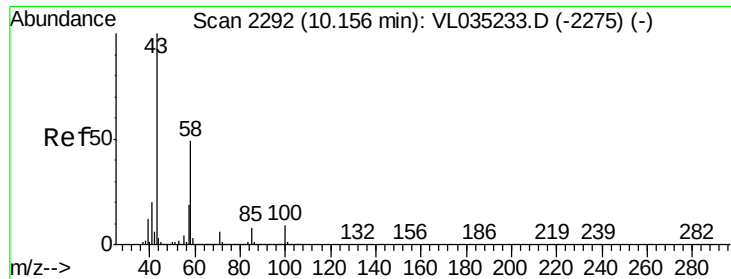
58 37.2 30.0 45.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 16.235 ppbv

RT: 10.16 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3418263

Ion Ratio Lower Upper

43 100

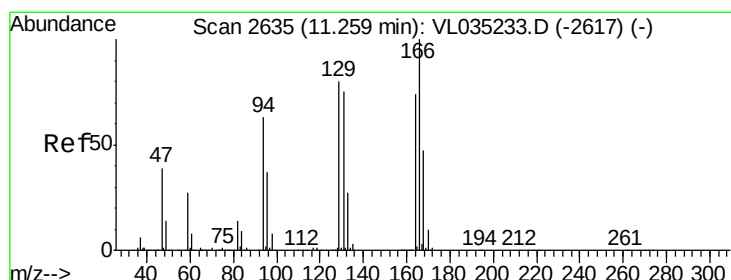
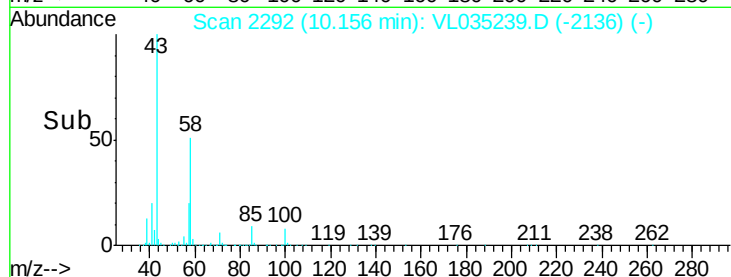
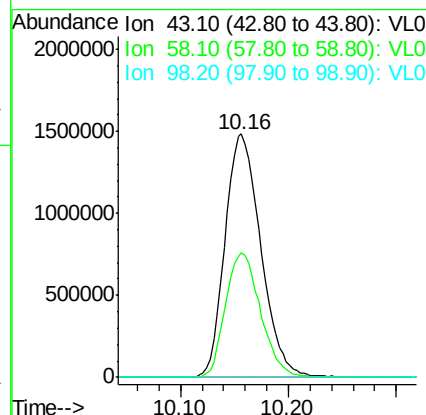
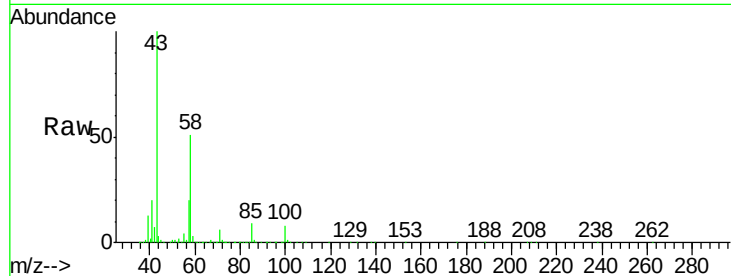
58 50.4 38.8 58.2

98 0.4 0.6 0.8#

Manual Integrations
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#52

Tetrachloroethene

Concen: 14.593 ppbv

RT: 11.26 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Tgt Ion: 164 Resp: 1424577

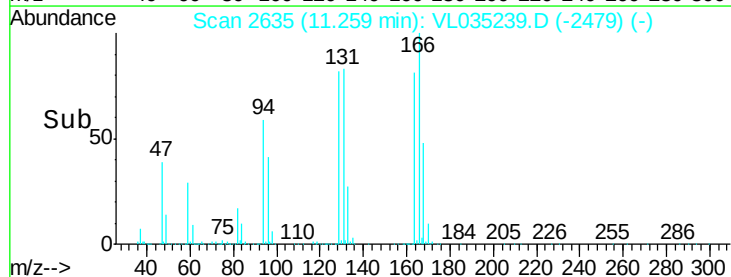
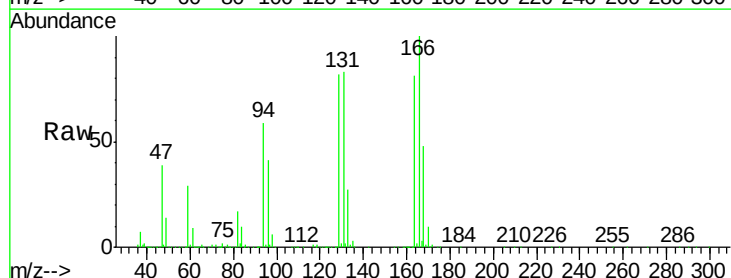
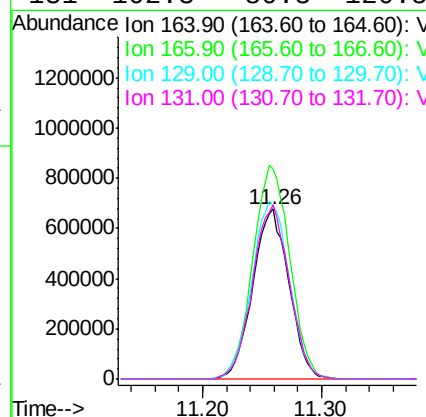
Ion Ratio Lower Upper

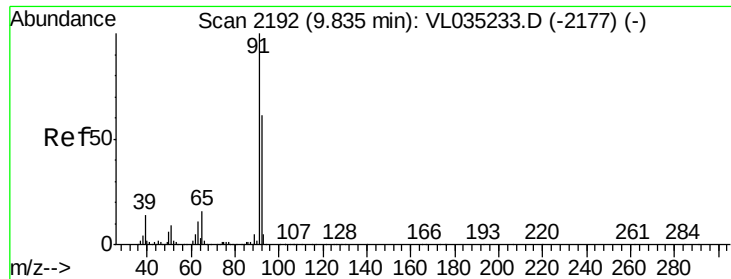
164 100

166 124.0 107.5 161.3

129 101.9 86.0 129.0

131 102.3 80.3 120.5





#53

Toluene

Concen: 16.335 ppbv

RT: 9.83 min Scan# 2191

Delta R.T. -0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4492585

Ion Ratio Lower Upper

91 100

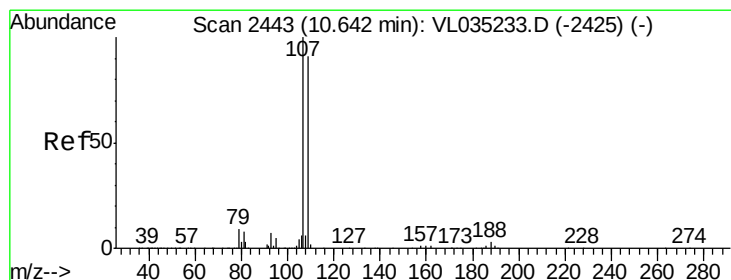
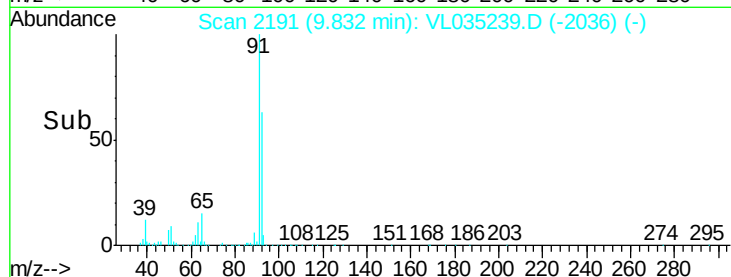
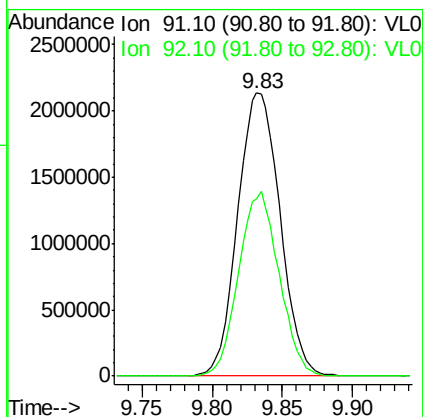
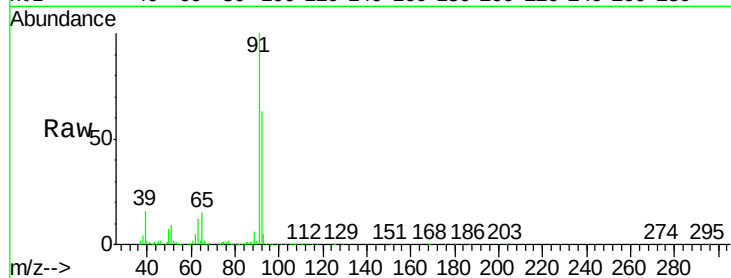
92 62.4 48.5 72.7

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 15.090 ppbv

RT: 10.65 min Scan# 2444

Delta R.T. 0.00 min

Lab File: VL035239.D

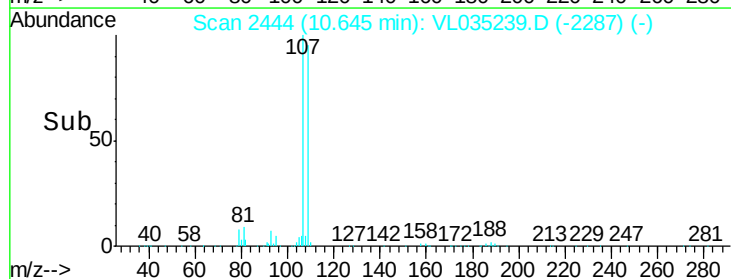
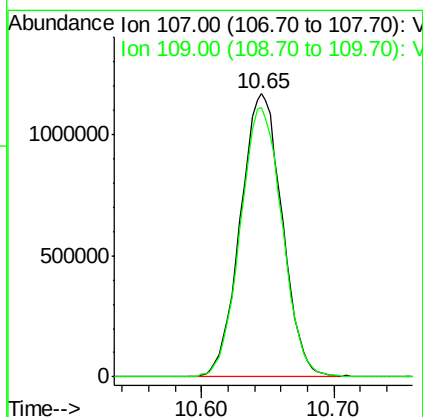
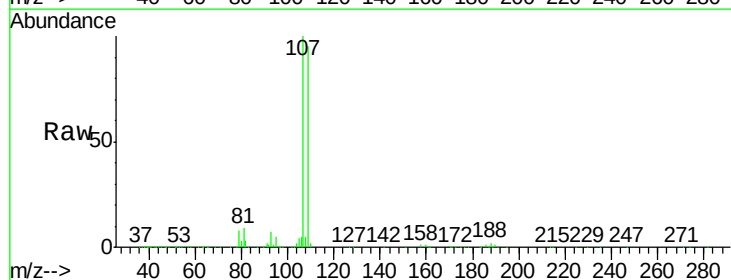
Acq: 29 Jul 2020 6:34

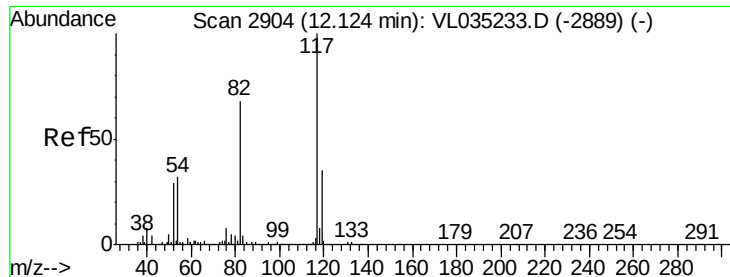
Tgt Ion: 107 Resp: 2549650

Ion Ratio Lower Upper

107 100

109 95.2 73.0 109.6





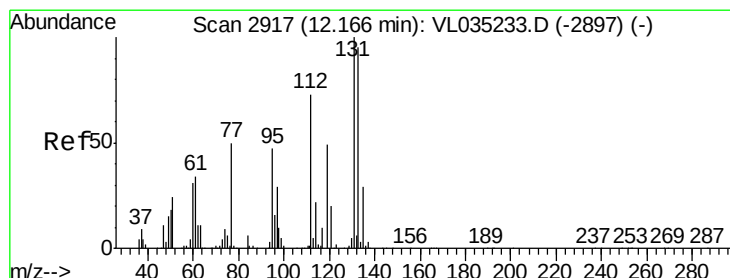
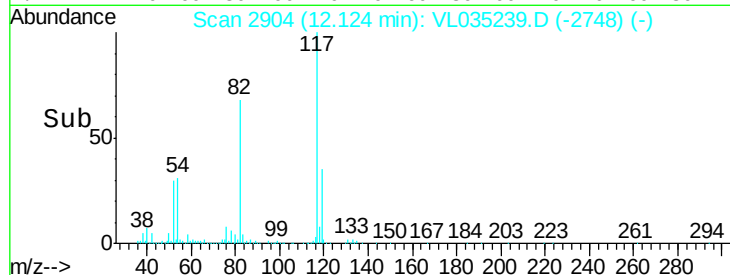
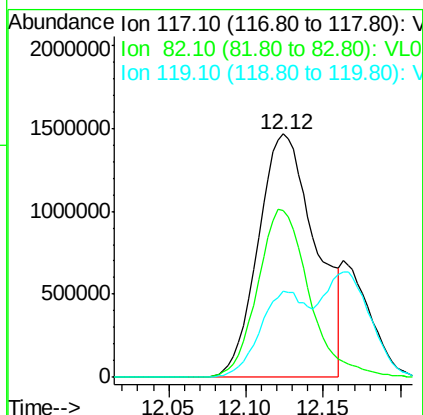
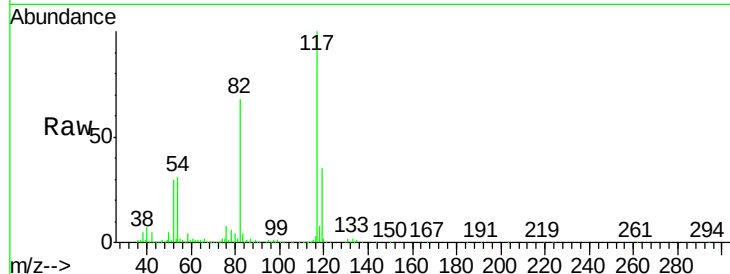
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.1	52.4	78.6
119	0.0	24.6	36.8#

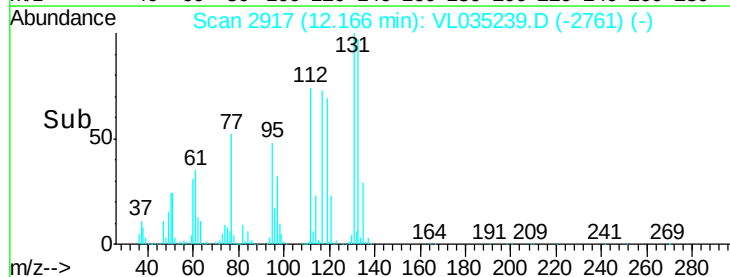
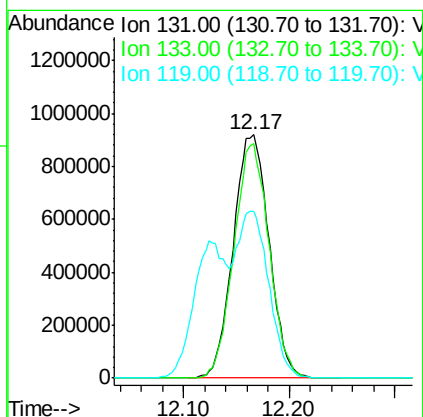
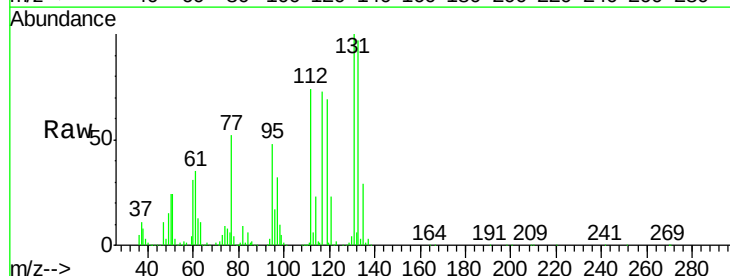
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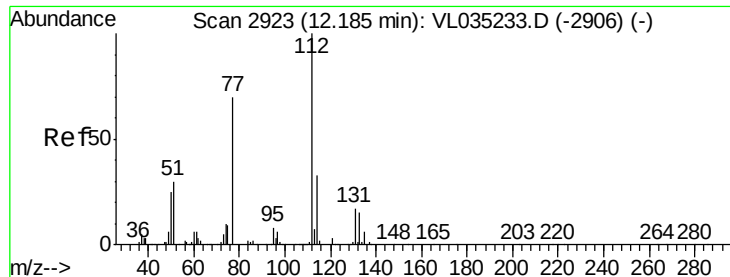
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#56
1,1,1,2-Tetrachloroethane
Concen: 12.673 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.3	76.1	114.1
119	59.3	44.3	66.5





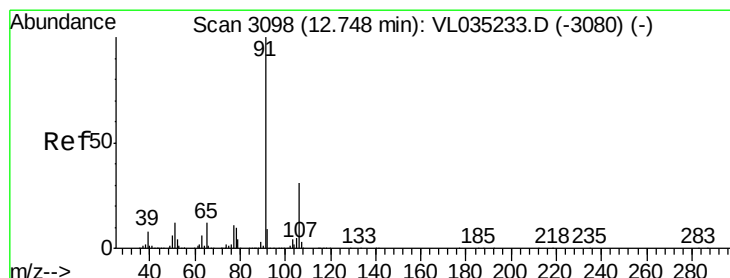
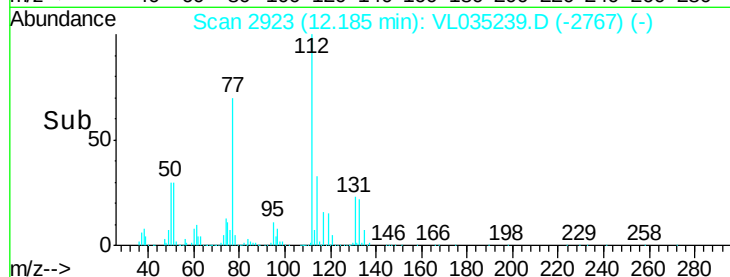
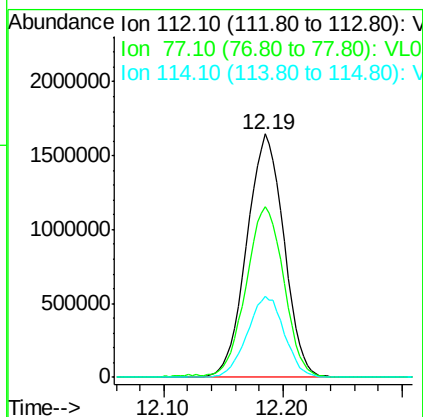
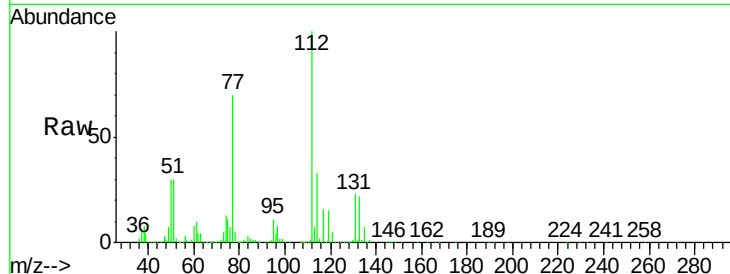
#57
Chlorobenzene
Concen: 12.537 ppbv
RT: 12.19 min Scan# 2923
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
112	100		
77	70.2	57.3	85.9
114	33.4	29.3	35.8

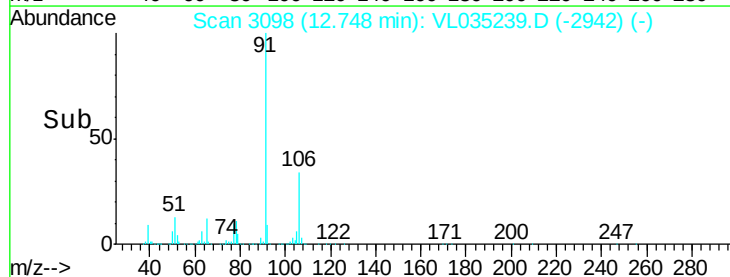
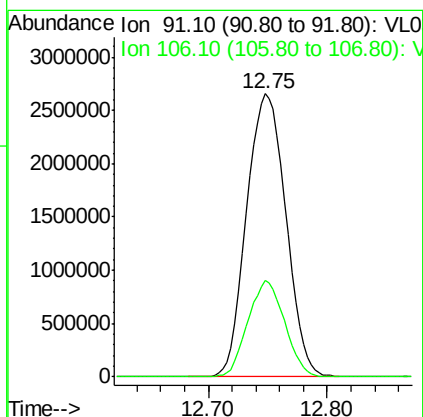
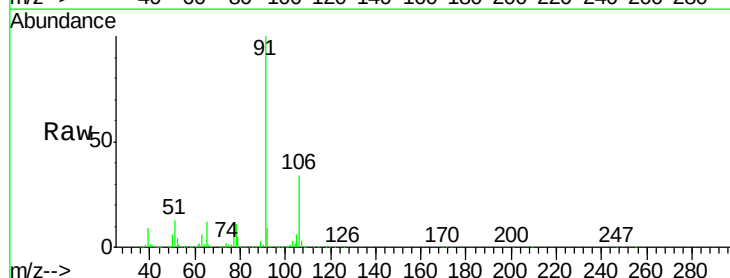
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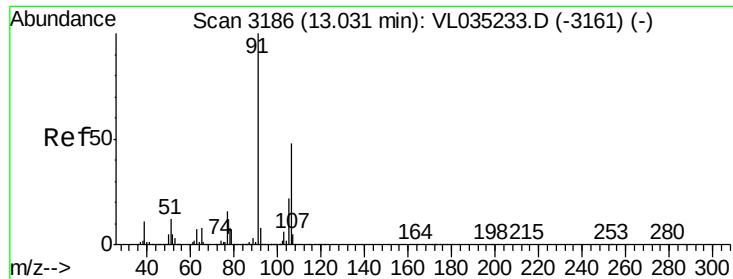
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#58
Ethyl Benzene
Concen: 14.335 ppbv
RT: 12.75 min Scan# 3098
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.9	25.0	37.6





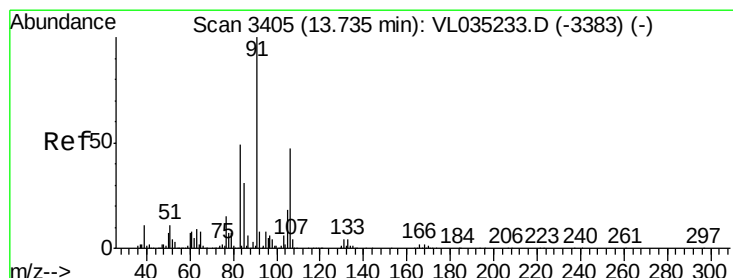
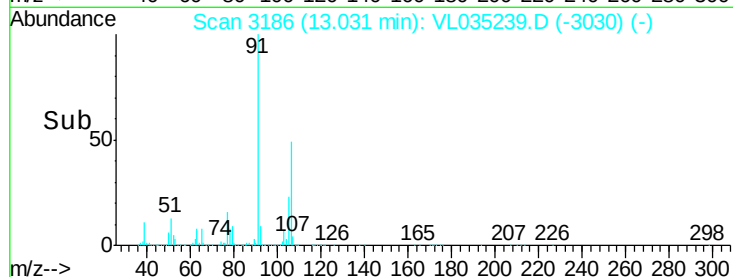
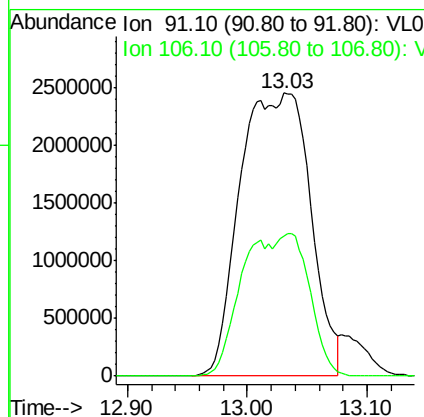
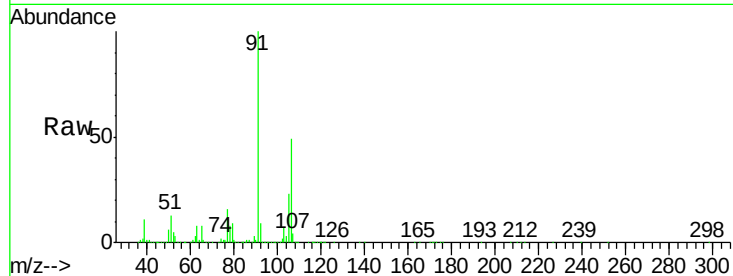
#59
m/p-Xylene
Concen: 26.493 ppbv m
RT: 13.03 min Scan# 3186
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 10041115
Ion Ratio Lower Upper
91 100
106 48.0 37.2 55.8

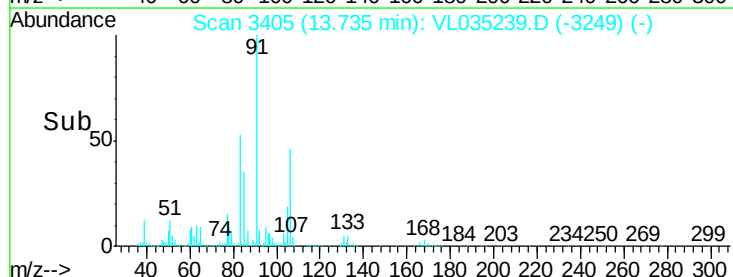
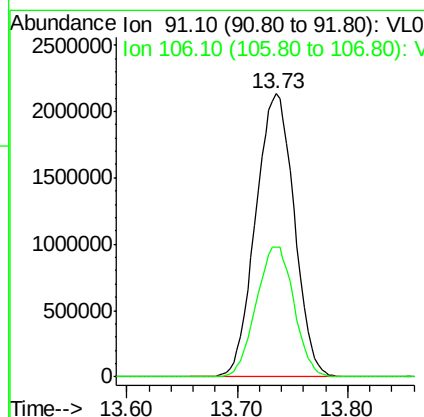
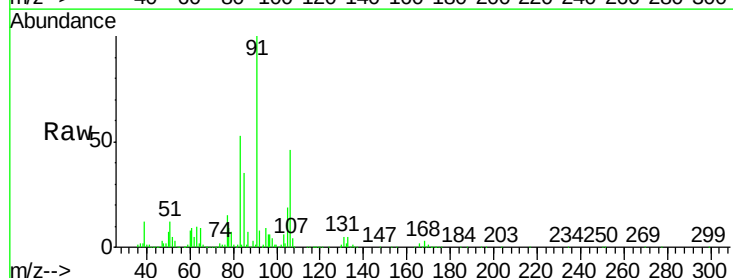
Manual Integrations
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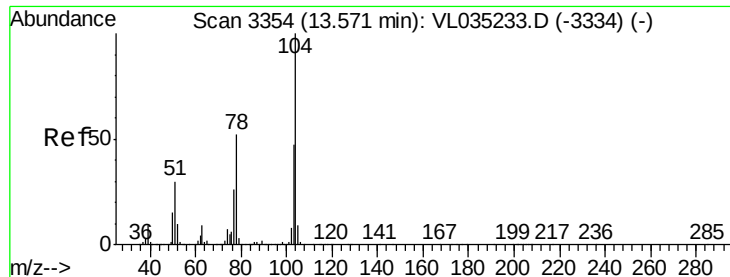
MMDadoda
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#60
o-Xylene
Concen: 13.668 ppbv
RT: 13.73 min Scan# 3405
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Tgt Ion: 91 Resp: 5168603
Ion Ratio Lower Upper
91 100
106 45.1 22.4 67.0





#61

Stvrene

Concen: 16.100 ppbv

RT: 13.57 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 3759763

Ion Ratio Lower Upper

104 100

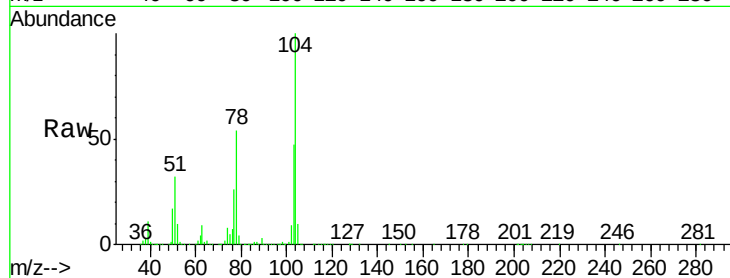
78 55.0 43.3 64.9

103 48.4 38.2 57.2

Manual Integrations
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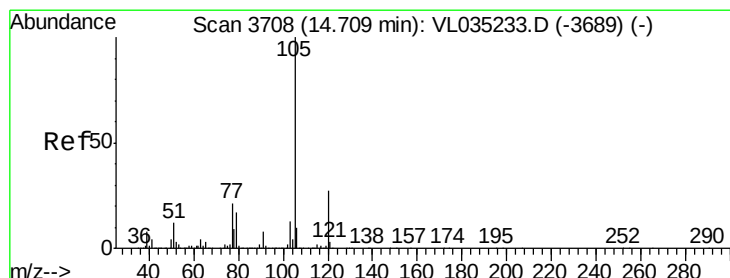
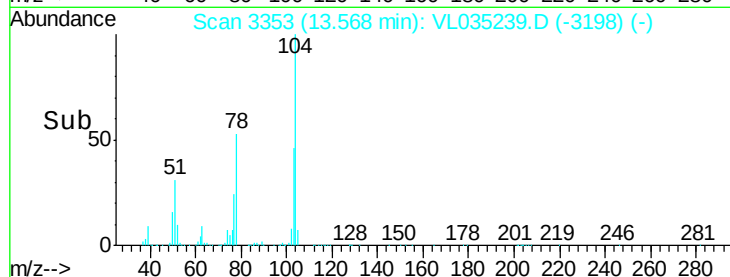
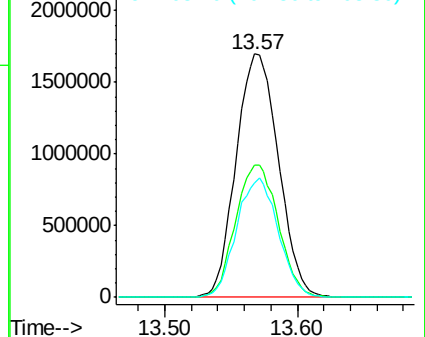
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 13.195 ppbv

RT: 14.71 min Scan# 3709

Delta R.T. 0.00 min

Lab File: VL035239.D

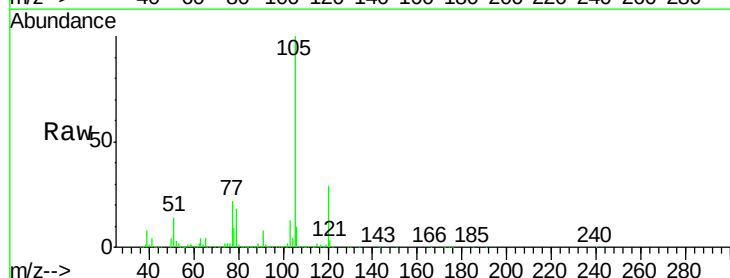
Acq: 29 Jul 2020 6:34

Tgt Ion:105 Resp: 7397840

Ion Ratio Lower Upper

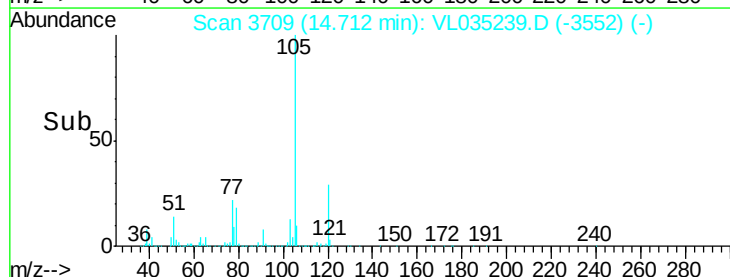
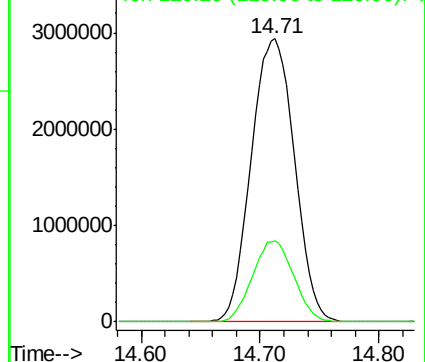
105 100

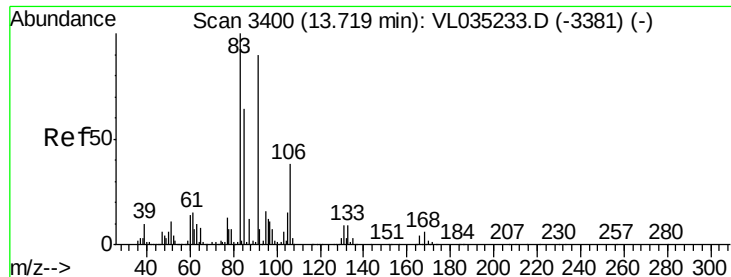
120 27.3 20.8 31.2



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: 11.939 ppbv

RT: 13.72 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 3771546

Ion Ratio Lower Upper

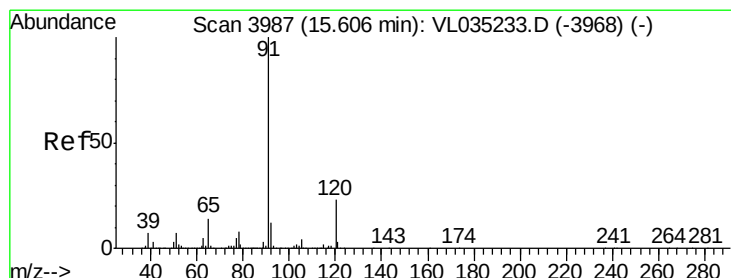
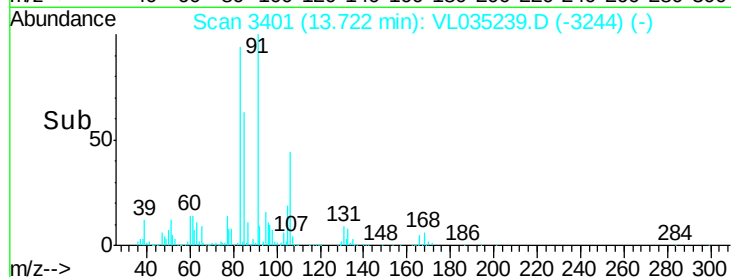
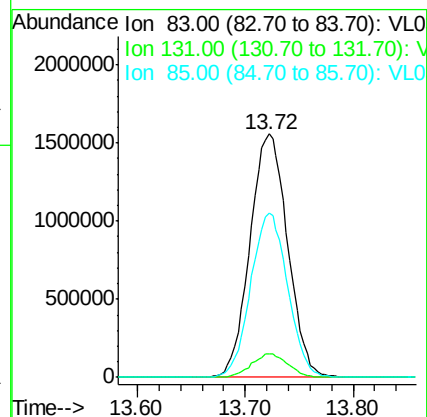
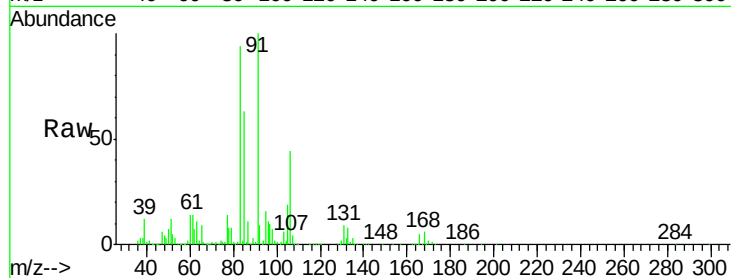
83 100

131 9.4 4.6 13.8

85 66.6 32.7 98.1

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#64

n-propylbenzene

Concen: 14.518 ppbv

RT: 15.61 min Scan# 3987

Delta R.T. 0.00 min

Lab File: VL035239.D

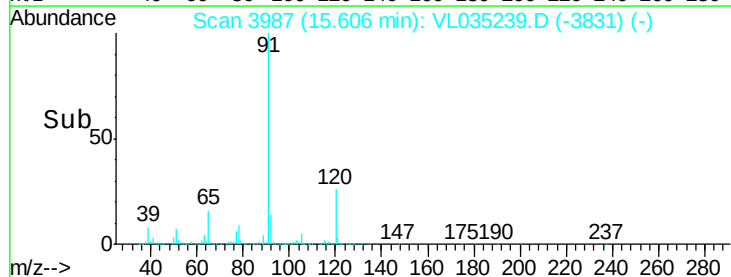
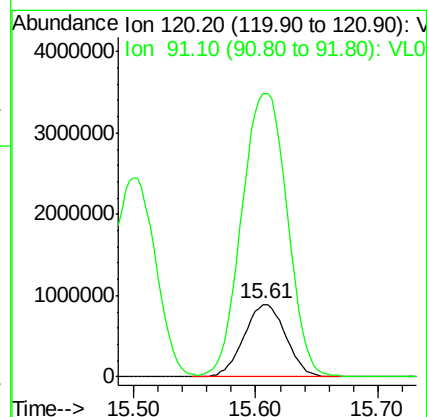
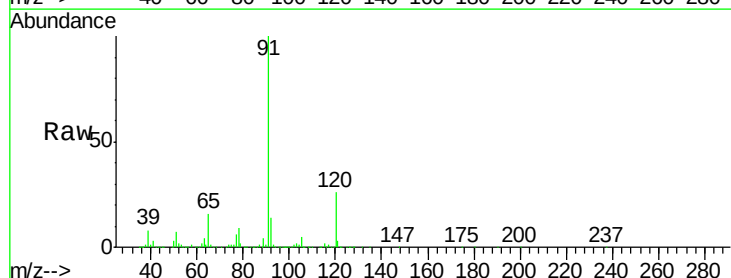
Acq: 29 Jul 2020 6:34

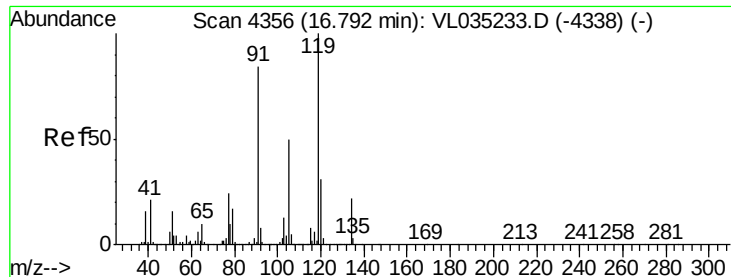
Tgt Ion: 120 Resp: 2107150

Ion Ratio Lower Upper

120 100

91 427.4 367.5 551.3





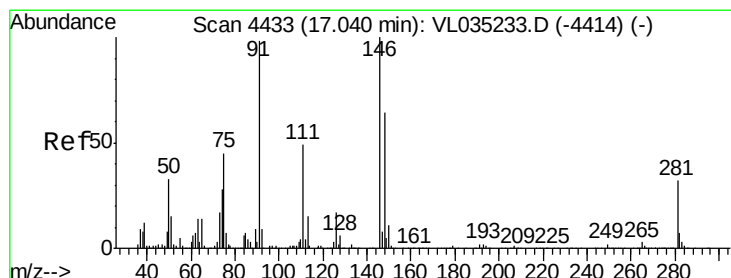
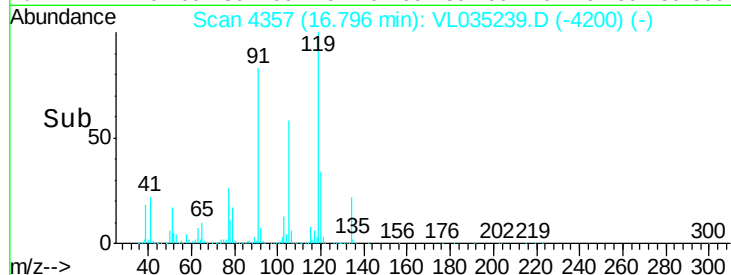
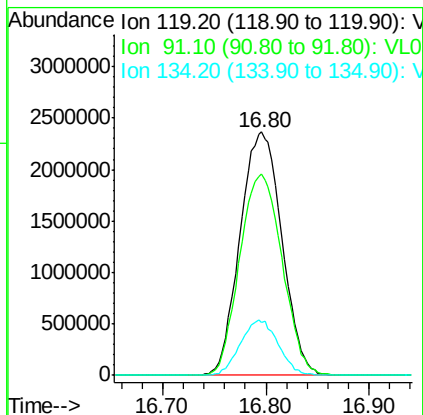
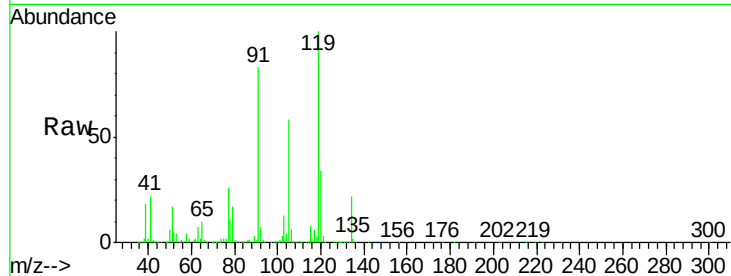
#65
 tert-Butylbenzene
 Concen: 13.221 ppbv
 RT: 16.80 min Scan# 4357
 Delta R.T. 0.00 min
 Lab File: VL035239.D
 Acq: 29 Jul 2020 6:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:119 Resp: 6654544
 Ion Ratio Lower Upper
 119 100
 91 84.2 68.0 102.0
 134 20.7 16.3 24.5

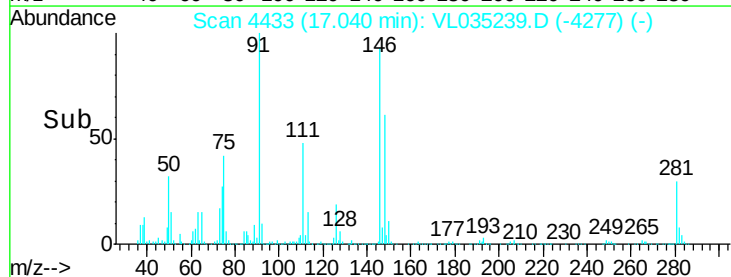
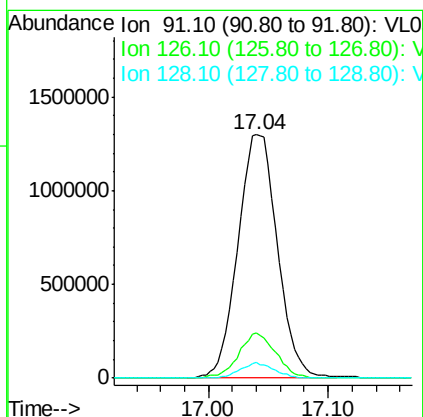
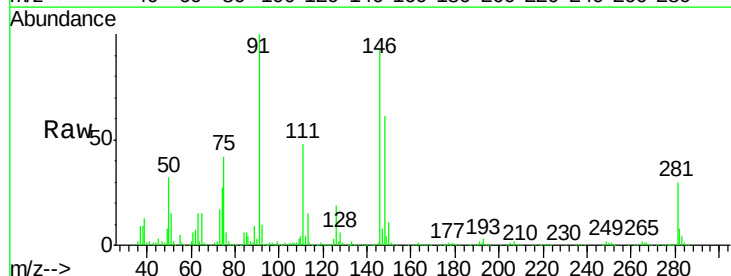
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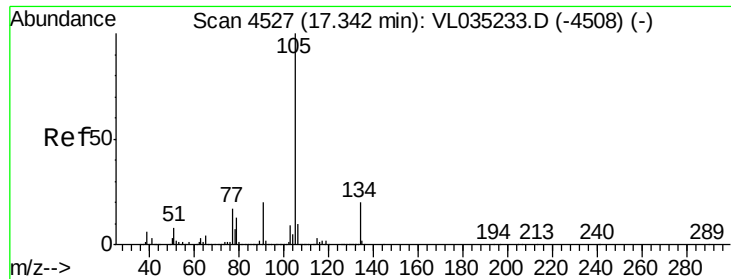
MMDadoda
 7/30/2020 6:10:34 PM



#66
 Benzyl Chloride
 Concen: 16.472 ppbv m
 RT: 17.04 min Scan# 4433
 Delta R.T. 0.00 min
 Lab File: VL035239.D
 Acq: 29 Jul 2020 6:34

Tgt Ion: 91 Resp: 2986286
 Ion Ratio Lower Upper
 91 100
 126 17.5 14.1 21.1
 128 5.5 4.4 6.6





#67

sec-Butylbenzene

Concen: 12.616 ppbv

RT: 17.34 min Scan# 4527

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 105 Resp: 9248837

Ion Ratio Lower Upper

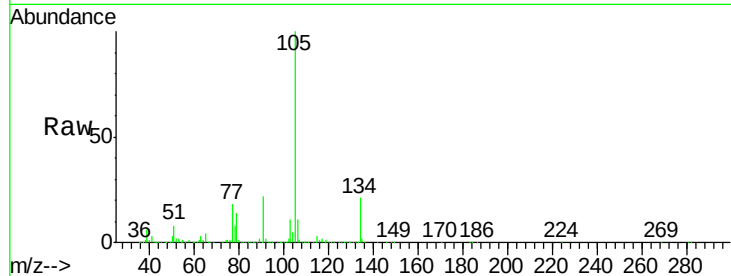
105 100

134 20.1 15.0 22.4

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

Ion 134.20 (133.90 to 134.90): V

4000000

3000000

2000000

1000000

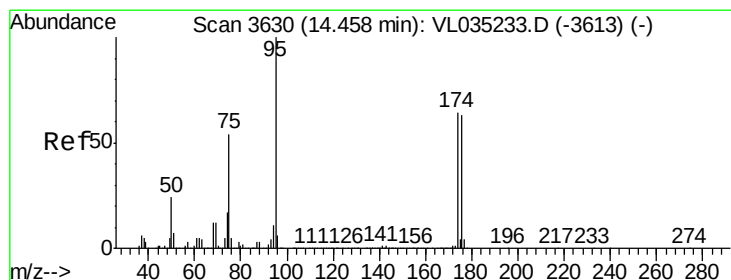
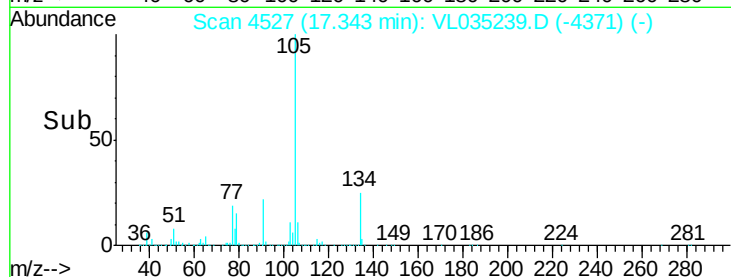
0

17.34

17.30

17.40

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.078 ppbv

RT: 14.46 min Scan# 3630

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

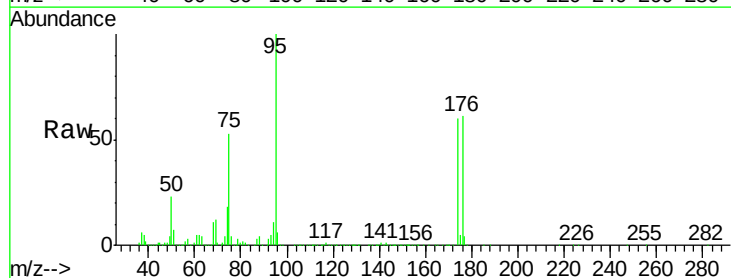
Tgt Ion: 95 Resp: 2802055

Ion Ratio Lower Upper

95 100

174 65.4 52.7 79.1

175 4.8 3.9 5.9



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

1500000

1000000

500000

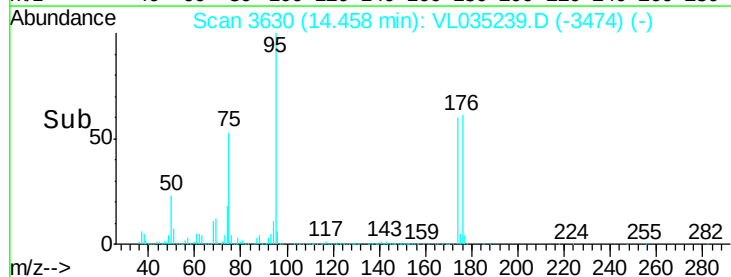
0

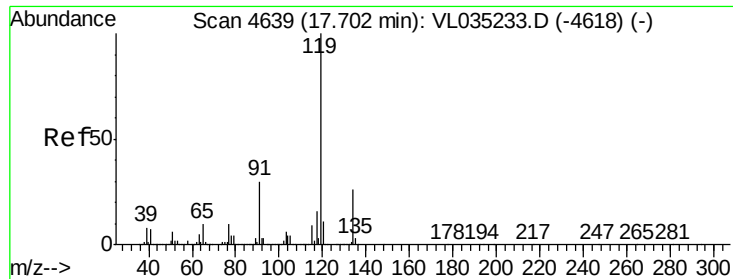
14.46

14.40

14.50

Time-->





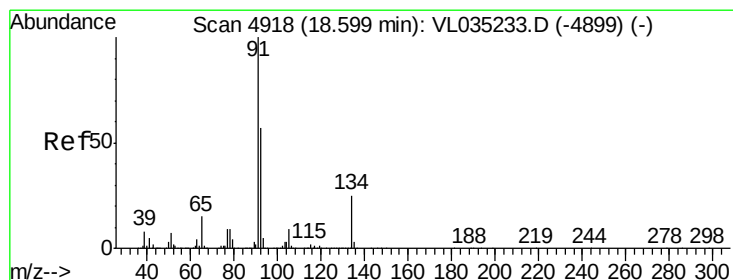
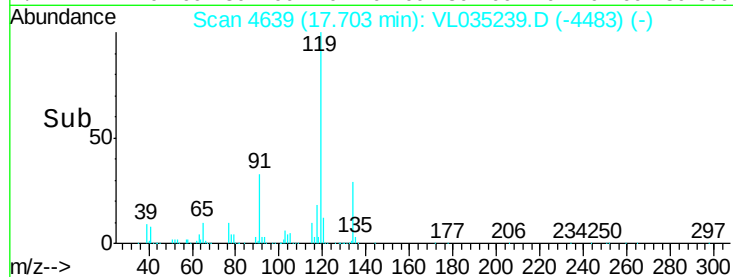
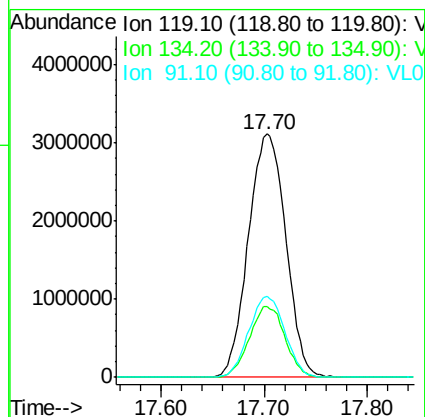
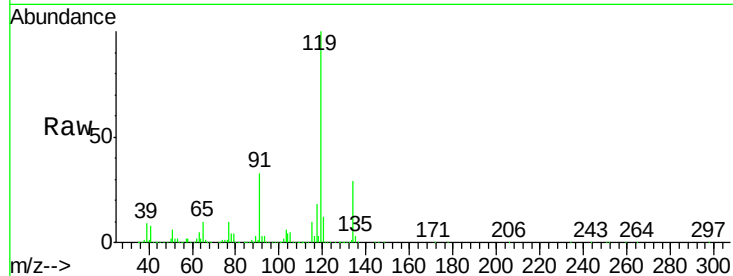
#69
 p-Isopropyltoluene
 Concen: 13.575 ppbv
 RT: 17.70 min Scan# 4639
 Delta R.T. 0.00 min
 Lab File: VL035239.D
 Acq: 29 Jul 2020 6:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 119 Resp: 7858743
 Ion Ratio Lower Upper
 119 100
 134 27.7 20.8 31.2
 91 32.0 24.7 37.1

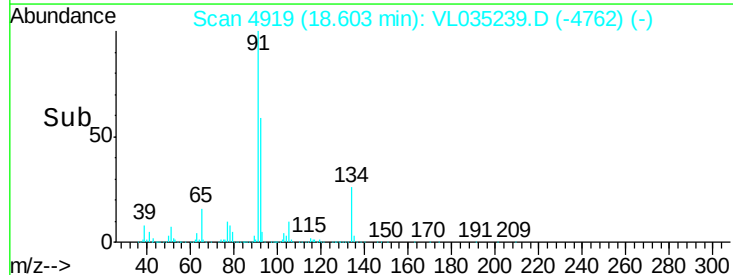
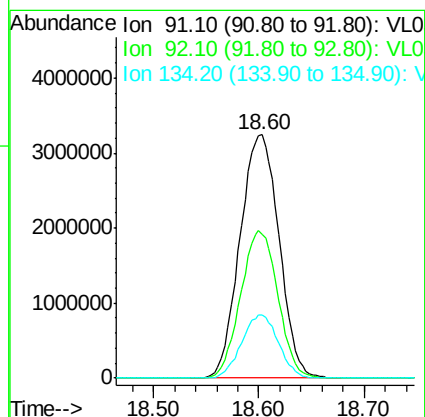
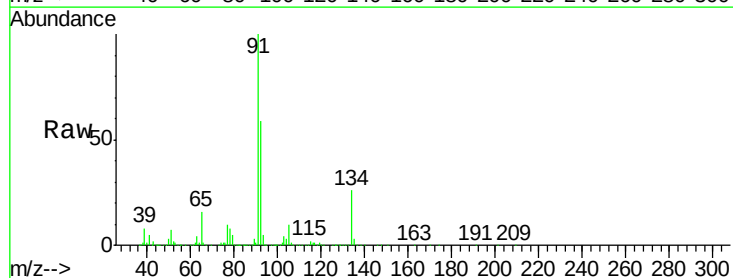
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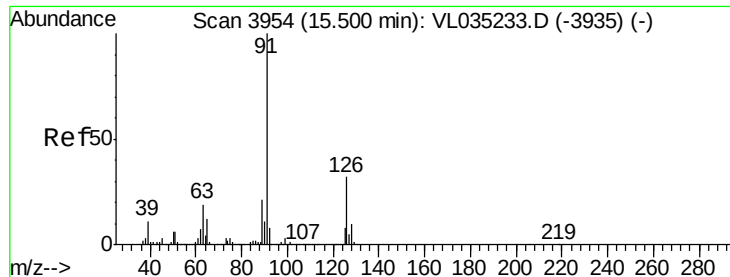
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#70
 n-Butylbenzene
 Concen: 13.586 ppbv
 RT: 18.60 min Scan# 4919
 Delta R.T. 0.00 min
 Lab File: VL035239.D
 Acq: 29 Jul 2020 6:34

Tgt Ion: 91 Resp: 8341122
 Ion Ratio Lower Upper
 91 100
 92 57.9 44.9 67.3
 134 24.6 18.6 28.0





#71

2-Chlorotoluene

Concen: 14.030 ppbv

RT: 15.50 min Scan# 3954

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 5954889

Ion Ratio Lower Upper

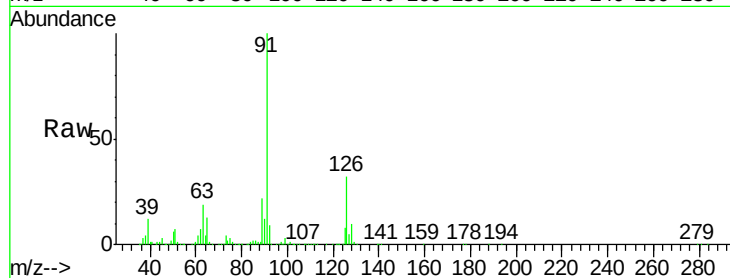
91 100

126 31.1 12.3 49.1

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

4000000

3000000

2000000

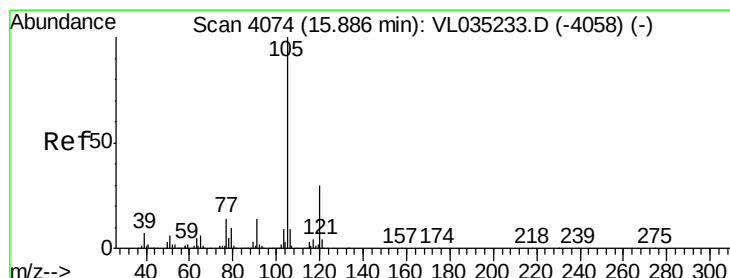
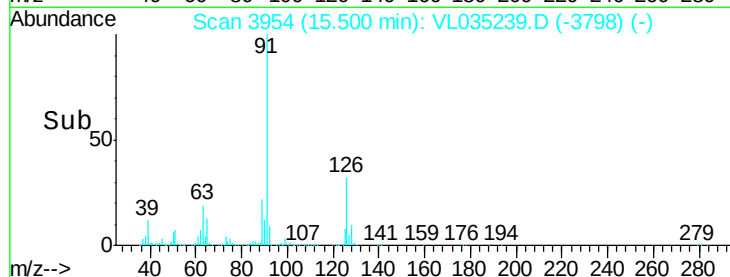
1000000

0

15.40

15.50

Time-->



#72

4-Ethyltoluene

Concen: 14.272 ppbv

RT: 15.89 min Scan# 4074

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Tgt Ion: 105 Resp: 6100780

Ion Ratio Lower Upper

105 100

120 30.8 23.6 35.4

91 13.6 11.0 16.6

77 15.0 11.7 17.5

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

4000000

3000000

2000000

1000000

0

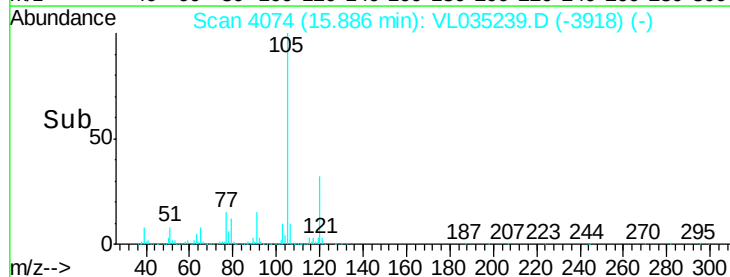
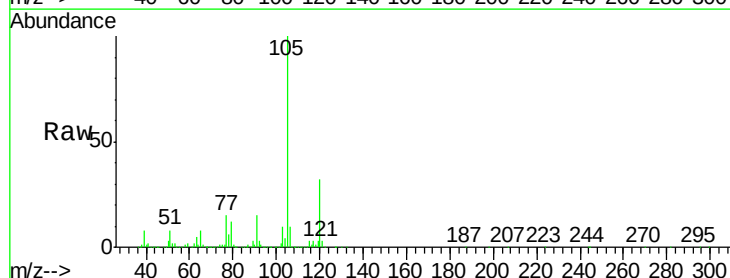
15.80

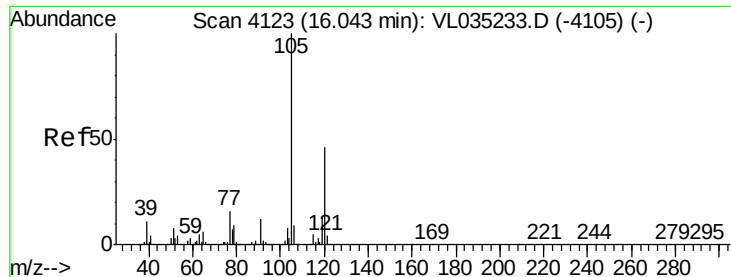
15.85

15.90

15.95

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 14.001 ppbv

RT: 16.04 min Scan# 4123

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5758523

Ion Ratio Lower Upper

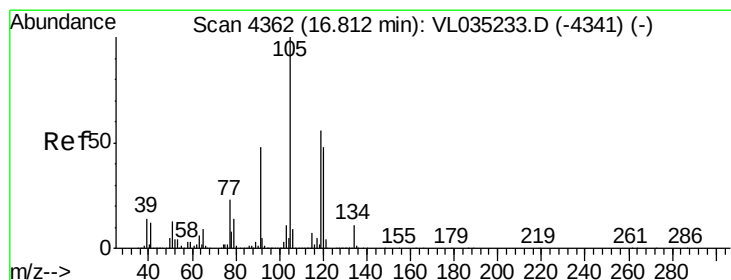
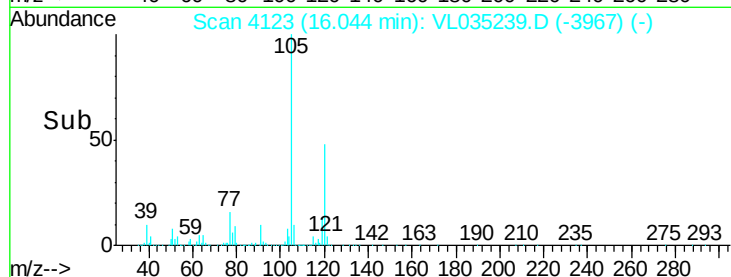
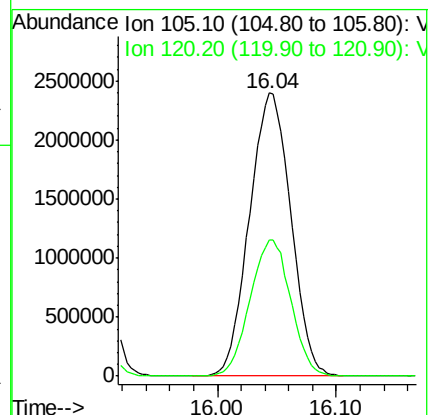
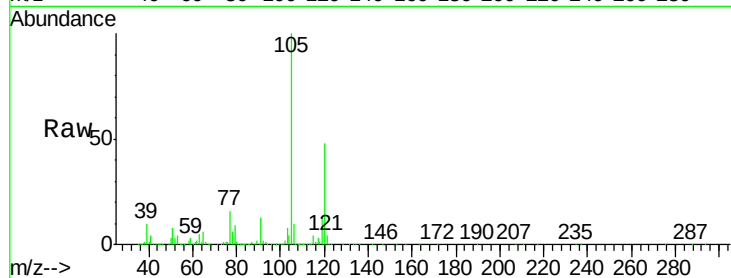
105 100

120 48.2 36.8 55.2

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#74

1,2,4-Trimethylbenzene

Concen: 13.079 ppbv

RT: 16.82 min Scan# 4363

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Tgt Ion:105 Resp: 5973640

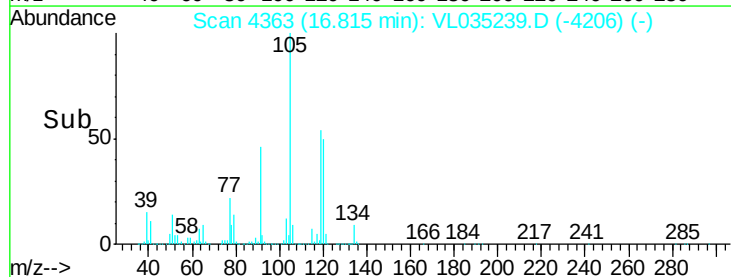
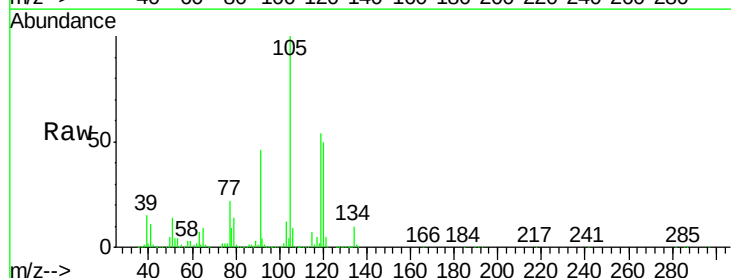
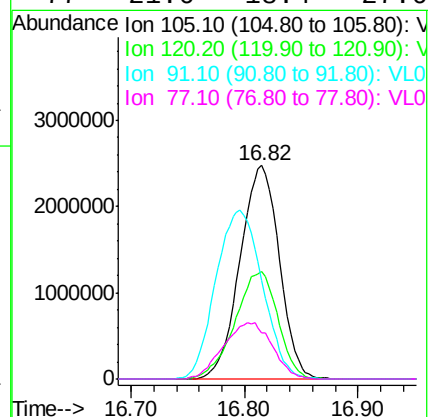
Ion Ratio Lower Upper

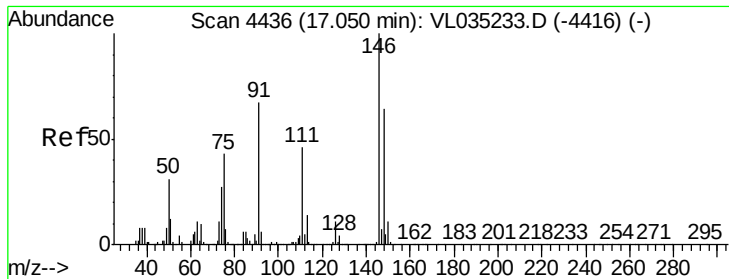
105 100

120 50.3 38.8 58.2

91 46.3 38.9 58.3

77 21.6 18.4 27.6





#75

1,3-Dichlorobenzene

Concen: 12.469 ppbv

RT: 17.05 min Scan# 4437

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 3620239

Ion Ratio Lower Upper

146 100

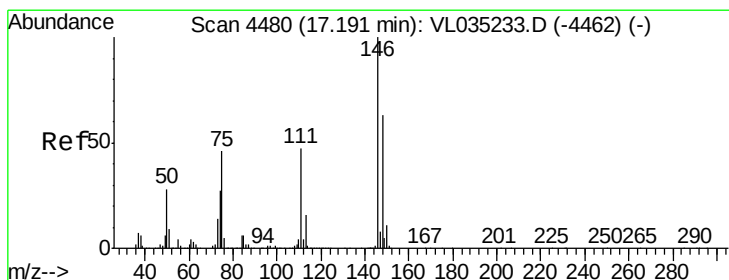
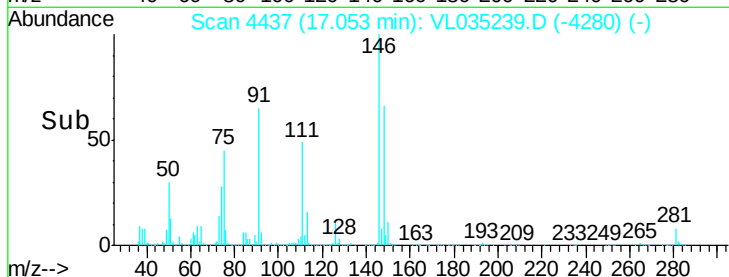
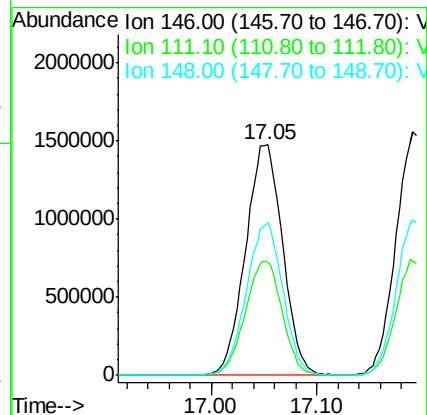
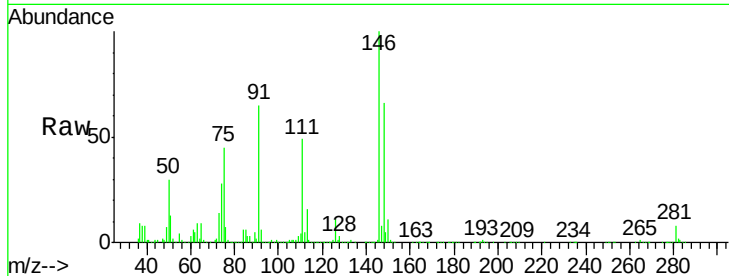
111 49.3 24.4 73.4

148 65.1 32.1 96.5

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 13.507 ppbv

RT: 17.19 min Scan# 4480

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

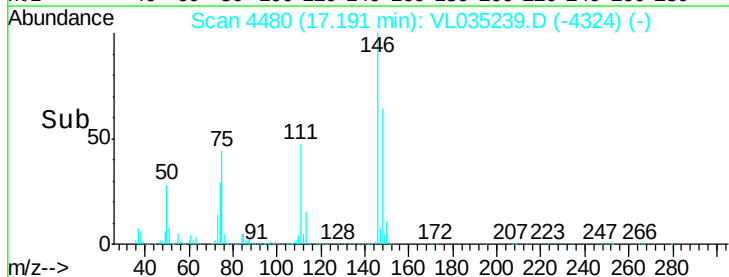
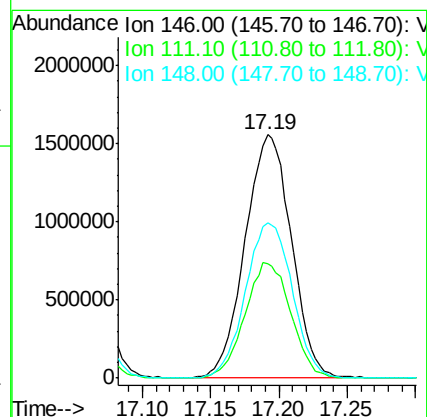
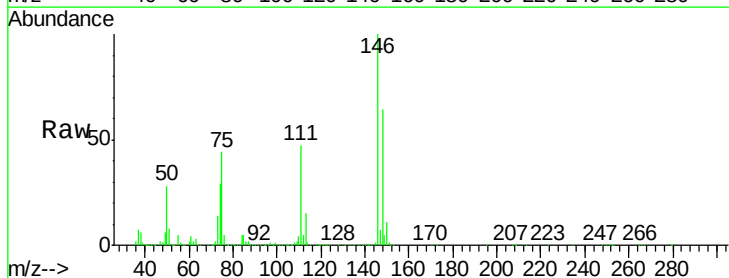
Tgt Ion:146 Resp: 3640361

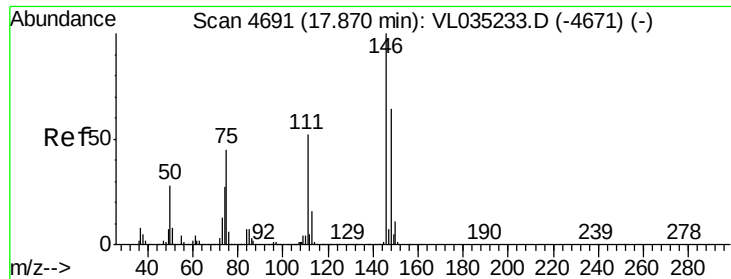
Ion Ratio Lower Upper

146 100

111 47.4 23.4 70.2

148 65.4 32.2 96.6





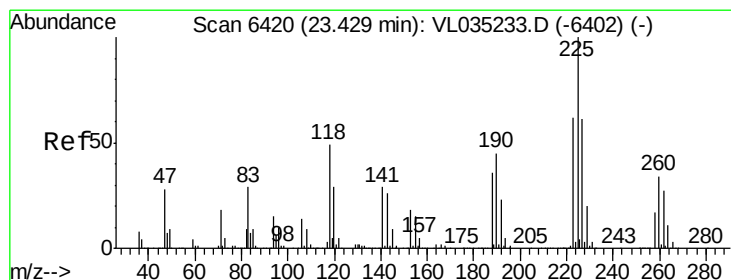
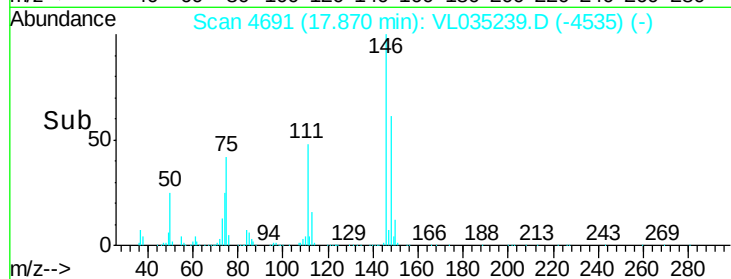
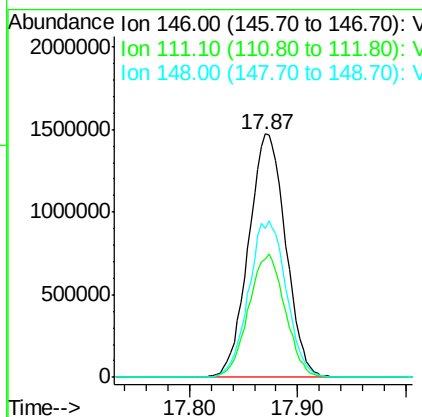
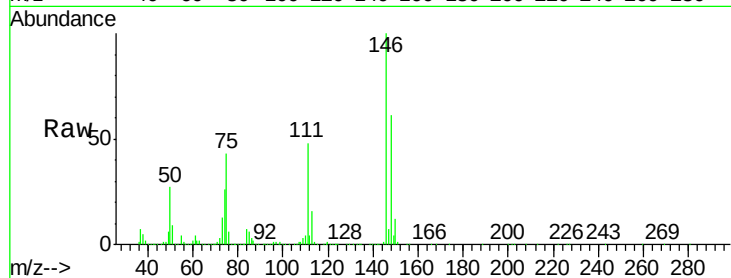
#77
 1,2-Dichlorobenzene
 Concen: 13.448 ppbv
 RT: 17.87 min Scan# 4691
 Delta R.T. 0.00 min
 Lab File: VL035239.D
 Acq: 29 Jul 2020 6:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.8	24.6	73.8
148	65.1	32.0	96.0

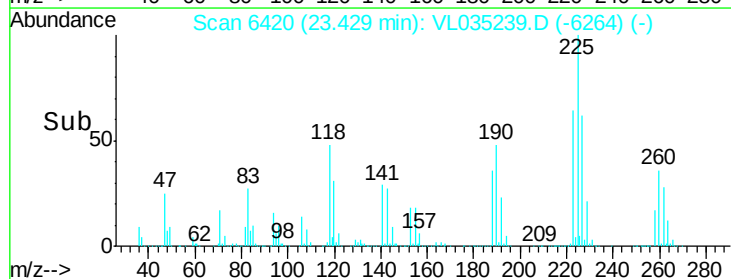
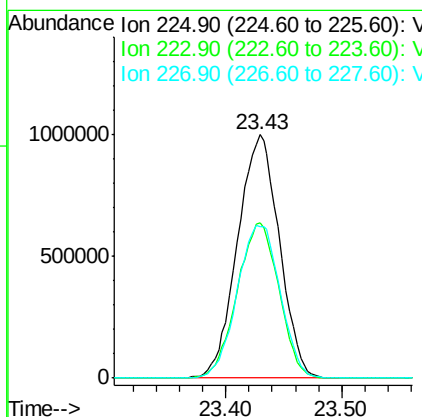
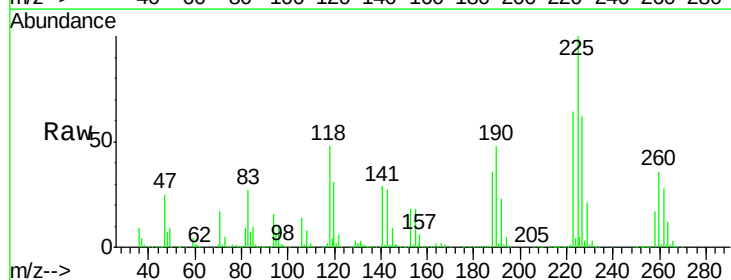
Manual Integrations
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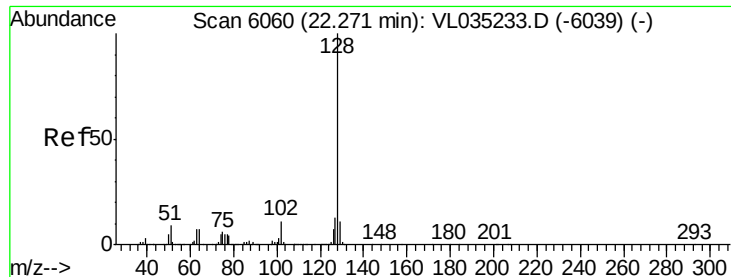
MMDadoda
 7/30/2020 6:10:34 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 12.183 ppbv
 RT: 23.43 min Scan# 6420
 Delta R.T. 0.00 min
 Lab File: VL035239.D
 Acq: 29 Jul 2020 6:34

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.9	51.3	76.9
227	64.8	51.4	77.2





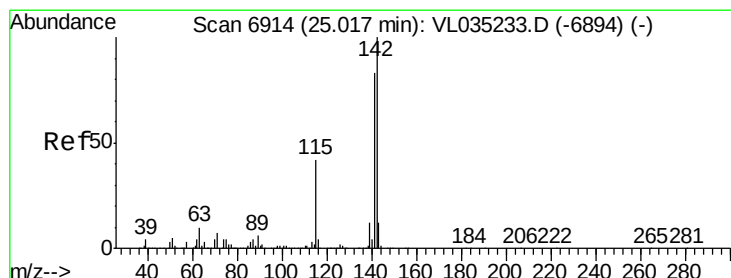
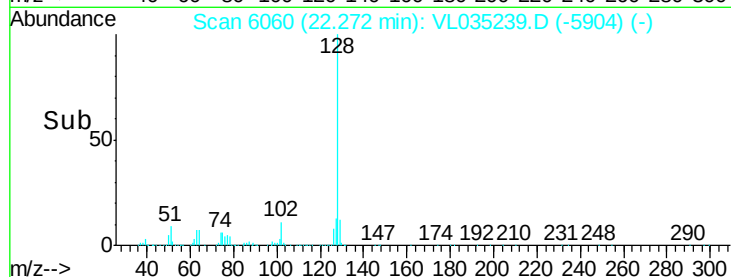
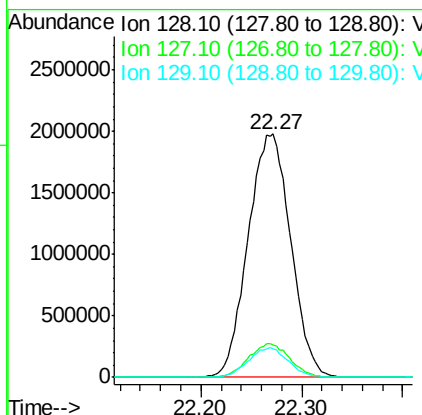
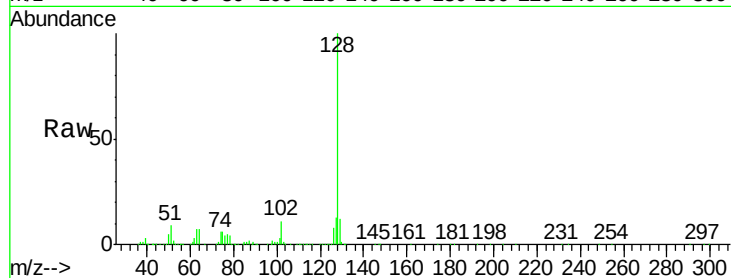
#79
Naphthalene
Concen: 19.082 ppbv
RT: 22.27 min Scan# 6060
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.4	15.6
129	11.9	8.5	12.7

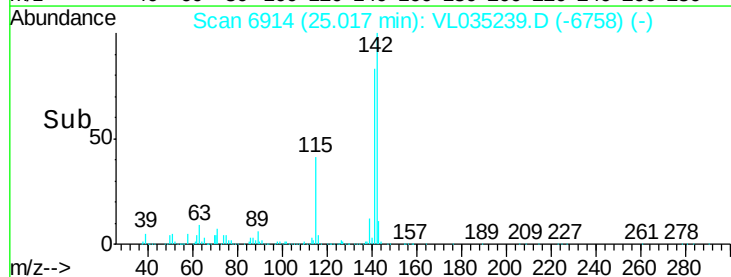
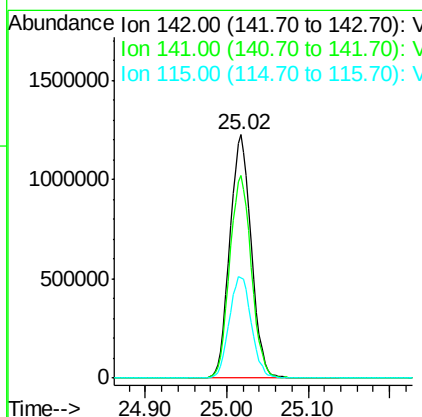
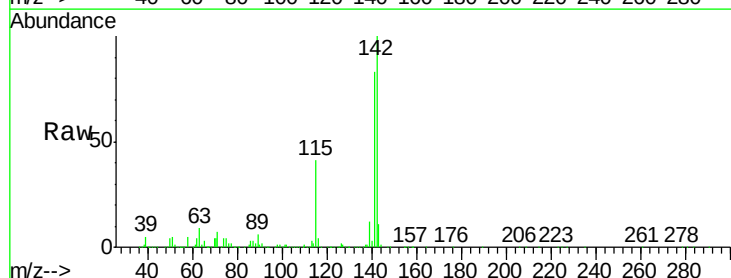
Manual Integrations
APPROVED

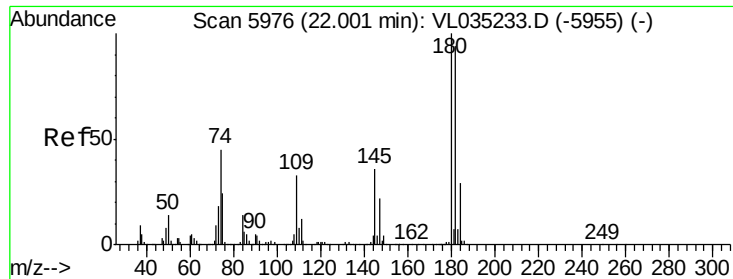
MMDadoda
7/30/2020 6:10:34 PM



#80
Naphthalene, 2-methyl-
Concen: 31.437 ppbv
RT: 25.02 min Scan# 6914
Delta R.T. 0.00 min
Lab File: VL035239.D
Acq: 29 Jul 2020 6:34

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.3	68.6	103.0
115	43.1	34.5	51.7





#81
 1,2,4-Trichlorobenzene
 Concen: 16.638 ppbv
 RT: 22.00 min Scan# 5974
 Delta R.T. -0.01 min
 Lab File: VL035239.D
 Acq: 29 Jul 2020 6:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.6	76.7	115.1
184	32.2	24.7	37.1

Manual Integrations
 APPROVED

MMDadoda
 7/30/2020 6:10:34 PM

