

Data File : VL035381.D
Acq On : 12 Aug 2020 11:57
Operator : SY/AP
Sample : VSTDICCC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Aug 12 15:17:21 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081220AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 05 13:04:46 2020
QLast Update : Wed Aug 05 13:04:46 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1356259	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3293333	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3249004	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2555322	9.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.30%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.04	85	1323689	7.337	ppbv	99
3) Chlorodifluoromethane	2.98	51	1401414	9.052	ppbv	93
4) Chloromethane	3.13	50	795401	9.074	ppbv	99
5) Vinyl Chloride	3.25	62	766366	8.500	ppbv	100
6) Bromomethane	3.47	94	434734	7.871	ppbv	96
7) Chloroethane	3.55	64	275115	8.216	ppbv	94
8) Dichlorotetrafluoroethane	3.18	85	1644756	7.714	ppbv	97
9) Propene	3.00	41	712109	12.908	ppbv	100
10) Heptane	8.14	43	1851442	13.138	ppbv	94
11) Trichlorofluoromethane	3.95	101	1719729	7.358	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1183550	7.085	ppbv	96
13) Ethanol	3.60	45	202259	10.630	ppbv	95
14) Bromoethene	3.74	108	546281	8.155	ppbv	100
15) Acetone	3.85	43	1387217	7.203	ppbv	98
16) 1,3-Butadiene	3.32	39	739667	9.978	ppbv	99
17) tert-Butyl alcohol	4.29	59	1832262	10.365	ppbv	99
18) 1,1-Dichloroethene	4.29	96	551372	7.686	ppbv	96
19) Isopropyl Alcohol	3.97	45	1214739	9.950	ppbv	# 16
20) Methylene Chloride	4.34	84	518706	6.604	ppbv	98
21) Allyl Chloride	4.41	41	1016971	9.216	ppbv	97
22) trans-1,2-Dichloroethene	4.89	96	570444	8.201	ppbv	94
23) Vinyl Acetate	5.08	43	2398339	12.987	ppbv	97
24) 1,1-Dichloroethane	5.01	63	1578859	9.097	ppbv	99
25) Ethyl Acetate	5.68	43	3036658	10.377	ppbv	98
26) Hexane	5.69	57	1321125	10.408	ppbv	98
27) Carbon Disulfide	4.55	76	1537897	8.664	ppbv	97
28) Methyl tert-Butyl Ether	5.04	73	2196708	11.902	ppbv	97
29) Chloroform	5.76	83	1933415	8.835	ppbv	98
30) Cyclohexane	7.14	84	1104924	11.479	ppbv	89
31) cis-1,2-Dichloroethene	5.55	61	1356589	12.022	ppbv	96
32) 1,1,1-Trichloroethane	6.52	97	1945559	8.459	ppbv	99
34) 2-Butanone	5.25	43	2023870	12.481	ppbv	97
35) Carbon Tetrachloride	7.03	117	1928141	8.508	ppbv	97
36) Benzene	6.90	78	2706773	12.172	ppbv	99
37) 1,2-Dichloroethane	6.32	62	1490608	9.595	ppbv	98
38) Trichloroethene	7.85	130	976303	9.517	ppbv	99
39) 1,2-Dichloropropane	7.63	63	1072506	11.913	ppbv	94
40) 1,4-Dioxane	7.84	88	424809	11.018	ppbv	93
41) Tetrahydrofuran	6.06	42	1234652	15.515	ppbv	92
42) Bromodichloromethane	7.81	83	2147119	10.291	ppbv	99
43) Methyl Methacrylate	8.03	69	1244540	13.302	ppbv	94

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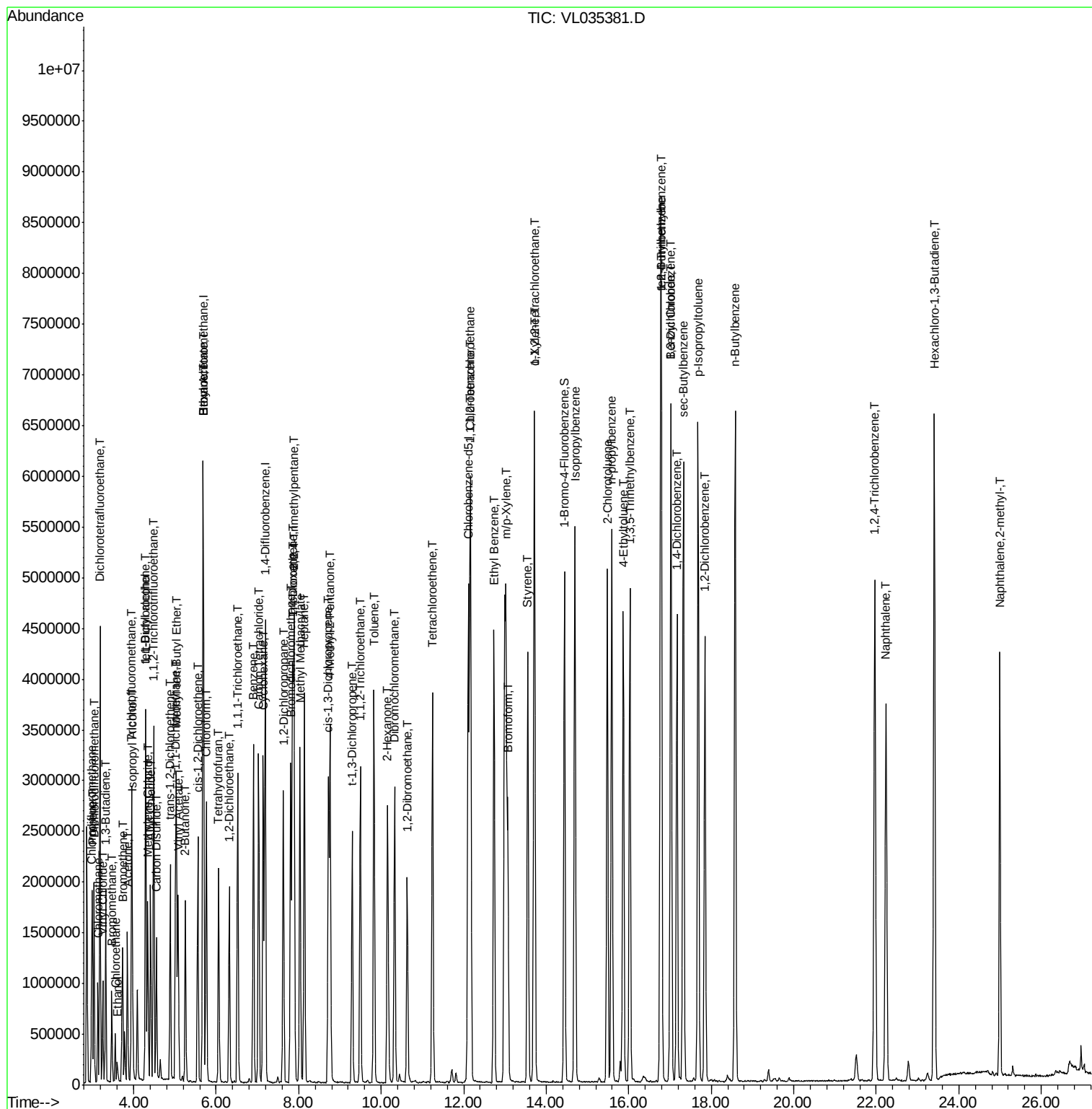
Quant Time: Aug 12 15:17:21 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081220AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 05 13:04:46 2020
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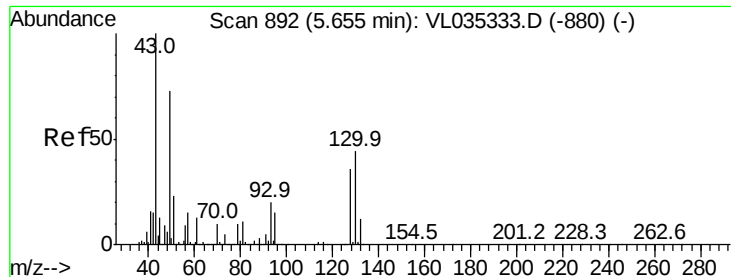
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	4530830	11.468	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	1494523	15.399	ppbv	96
46) cis-1,3-Dichloropropene	8.72	75	1694493	14.457	ppbv	100
47) 1,1,2-Trichloroethane	9.49	97	1089730	10.067	ppbv	96
48) Dibromochloromethane	10.33	129	1810933	10.213	ppbv	100
49) Bromoform	13.07	173	1552600	9.609	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	3026911	12.226	ppbv	100
51) 2-Hexanone	10.15	43	2599102	13.391	ppbv #	100
52) Tetrachloroethene	11.25	164	897270	10.177	ppbv	94
53) Toluene	9.83	91	3147736	13.012	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1694945	10.914	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.15	131	1344960	8.770	ppbv	97
57) Chlorobenzene	12.17	112	2305786	9.425	ppbv	95
58) Ethyl Benzene	12.74	91	4255921	12.589	ppbv	96
59) m/p-Xylene	13.02	91	3591486	11.409	ppbv #	40
60) o-Xylene	13.72	91	3346952	10.714	ppbv	99
61) Styrene	13.55	104	2625612	13.762	ppbv	99
62) Isopropylbenzene	14.70	105	5021398	10.676	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.71	83	2335948	8.765	ppbv	99
64) n-propylbenzene	15.59	120	1385128	10.958	ppbv	100
65) tert-Butylbenzene	16.78	119	4324854	10.041	ppbv	98
66) Benzyl Chloride	17.02	91	2283902	13.397	ppbv	99
67) sec-Butylbenzene	17.33	105	6221043	10.211	ppbv	99
69) p-Isopropyltoluene	17.68	119	5234689	10.539	ppbv	99
70) n-Butylbenzene	18.58	91	5639676	10.615	ppbv	99
71) 2-Chlorotoluene	15.48	91	4075649	11.829	ppbv	98
72) 4-Ethyltoluene	15.87	105	4125633	11.583	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	3869384	11.322	ppbv	99
74) 1,2,4-Trimethylbenzene	16.79	105	3856128	9.872	ppbv	95
75) 1,3-Dichlorobenzene	17.03	146	2195011	8.590	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	2296973	9.706	ppbv	99
77) 1,2-Dichlorobenzene	17.84	146	2206949	9.358	ppbv	98
78) Hexachloro-1,3-Butadiene	23.41	225	1736447	8.654	ppbv	98
79) Naphthalene	22.24	128	4845433	16.128	ppbv	99
80) Naphthalene,2-methyl-	24.99	142	2333594	34.145	ppbv	98
81) 1,2,4-Trichlorobenzene	21.97	180	2288271	12.085	ppbv	99

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.02 min

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VSTDICCC010

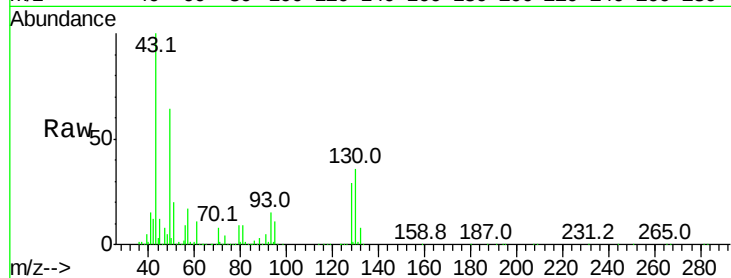
Tgt Ion: 49 Resp: 1356259

Ion Ratio Lower Upper

49 100

128 43.5 25.4 76.0

130 55.7 32.1 96.3



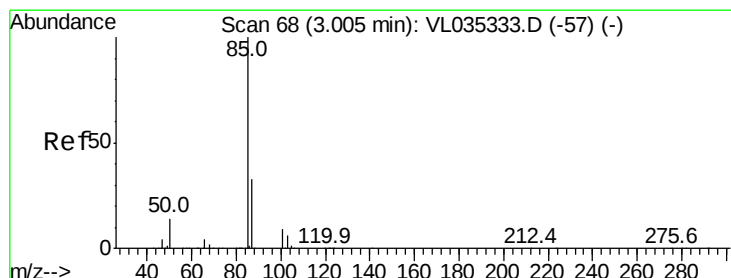
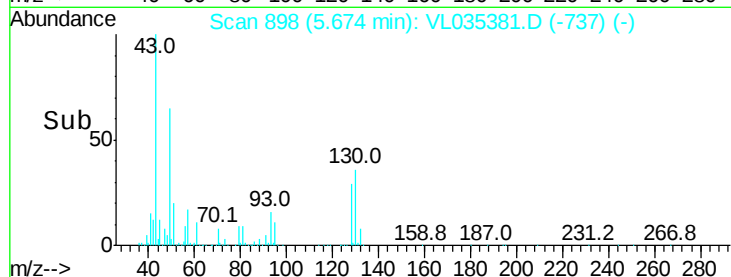
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.67

Time-->



#2

Dichlorodifluoromethane

Concen: 7.337 ppbv

RT: 3.04 min Scan# 79

Delta R.T. 0.04 min

Lab File: VL035381.D

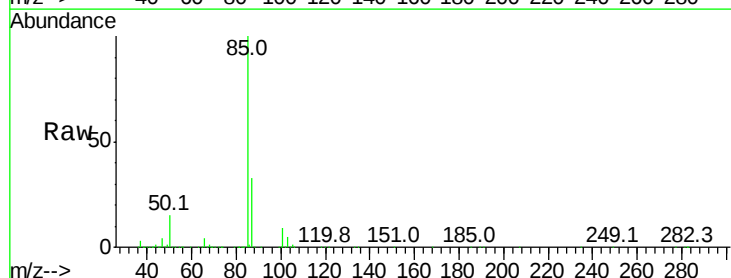
Acq: 12 Aug 2020 11:57

Tgt Ion: 85 Resp: 1323689

Ion Ratio Lower Upper

85 100

87 32.6 26.7 40.1

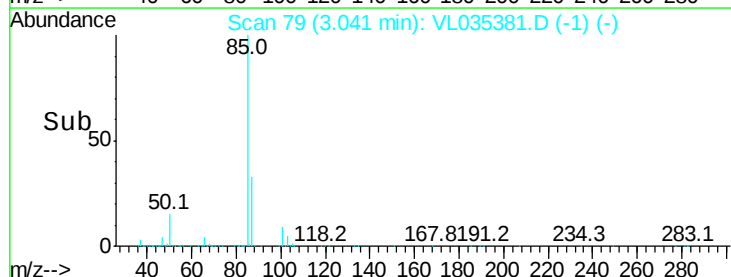


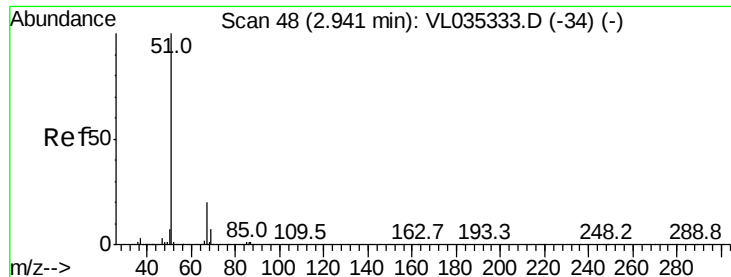
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.04

Time-->





#3

Chlorodifluoromethane

Concen: 9.052 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.04 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

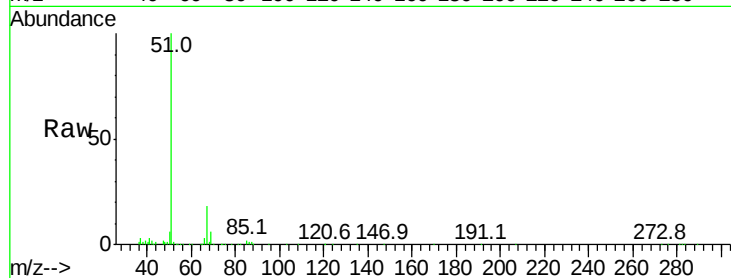
VSTDICCC010

Tgt Ion: 51 Resp: 1401414

Ion Ratio Lower Upper

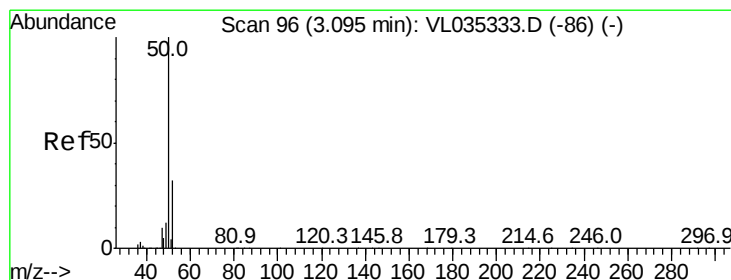
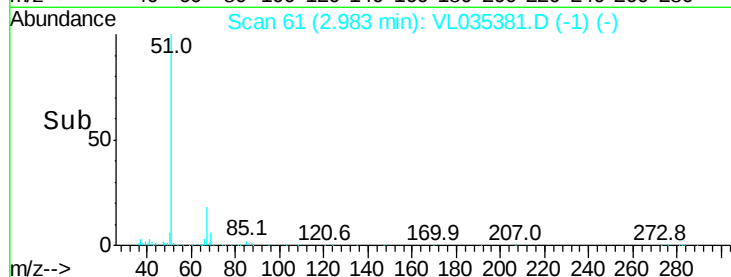
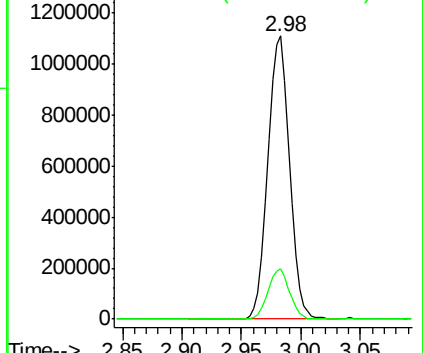
51 100

67 17.6 16.6 25.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.074 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.04 min

Lab File: VL035381.D

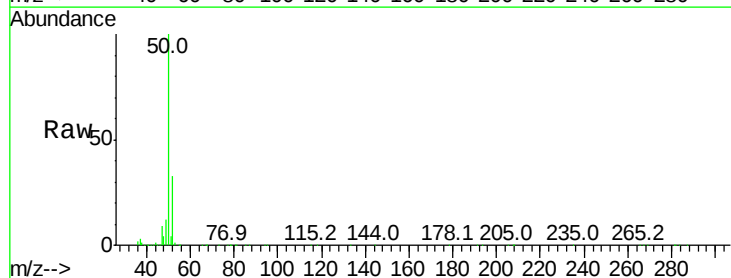
Acq: 12 Aug 2020 11:57

Tgt Ion: 50 Resp: 795401

Ion Ratio Lower Upper

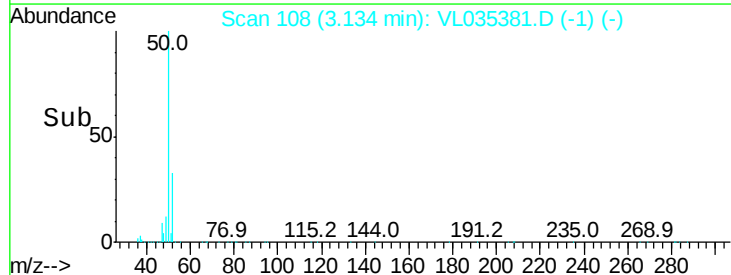
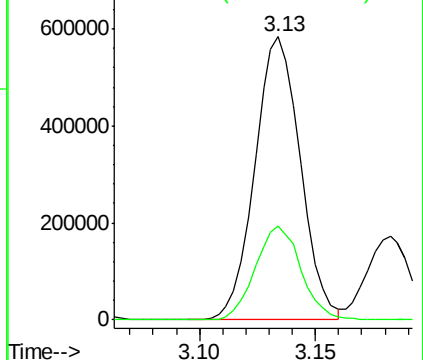
50 100

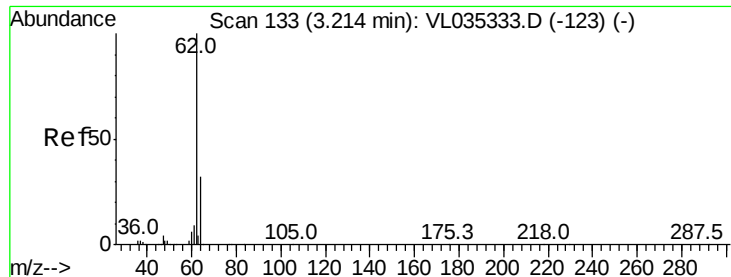
52 33.2 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.500 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.04 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

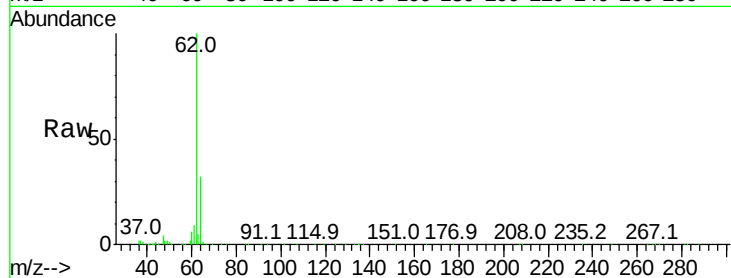
VSTDICCC010

Tgt Ion: 62 Resp: 766366

Ion Ratio Lower Upper

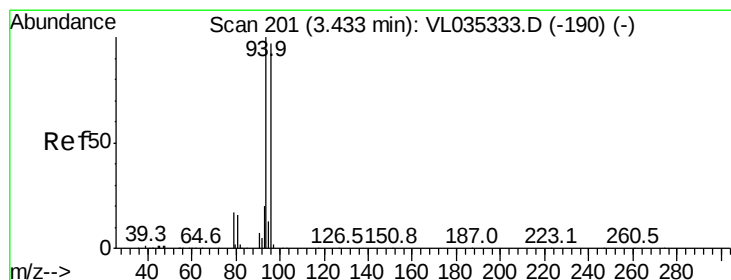
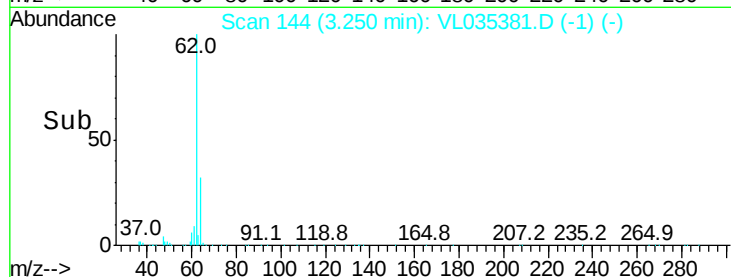
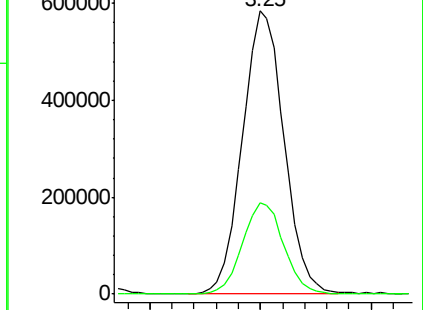
62 100

64 32.1 25.8 38.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 7.871 ppbv

RT: 3.47 min Scan# 212

Delta R.T. 0.04 min

Lab File: VL035381.D

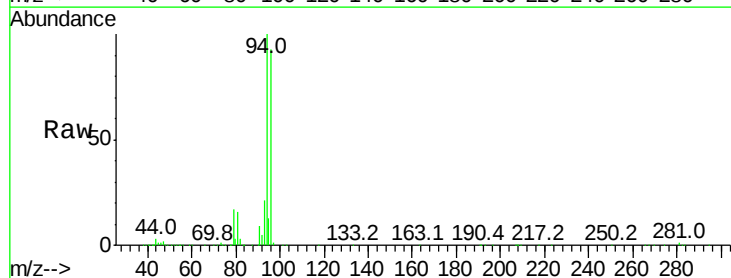
Acq: 12 Aug 2020 11:57

Tgt Ion: 94 Resp: 434734

Ion Ratio Lower Upper

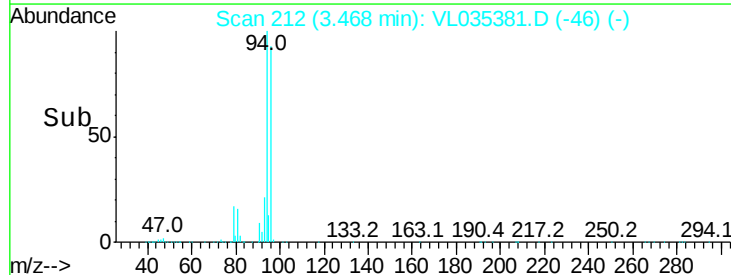
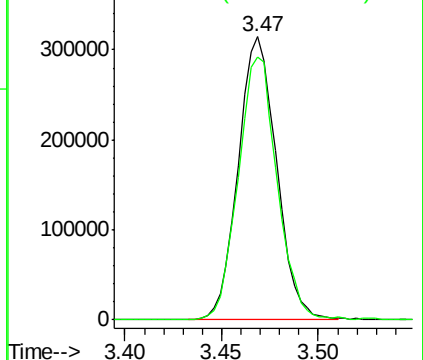
94 100

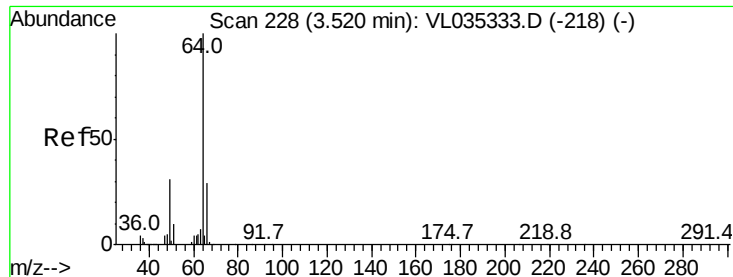
96 93.0 77.3 115.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.216 ppbv

RT: 3.55 min Scan# 238

Delta R.T. 0.03 min

Lab File: VL035381.D

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ClientSampleId :

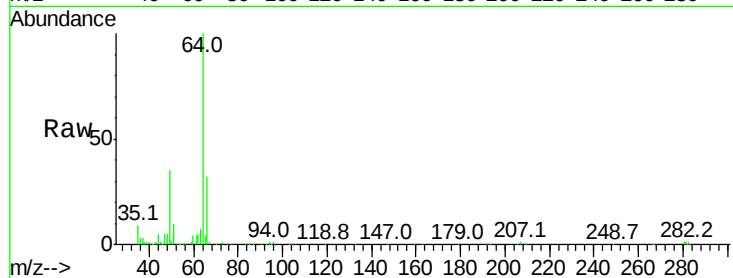
VSTDICCC010

Tgt Ion: 64 Resp: 275115

Ion Ratio Lower Upper

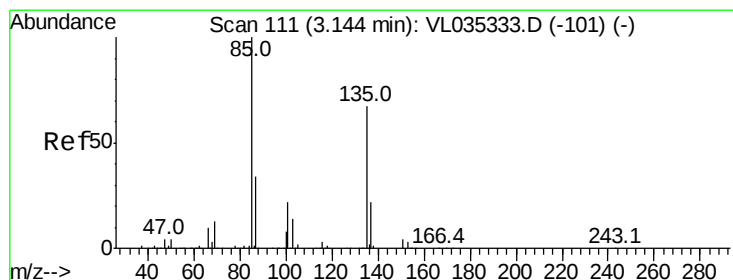
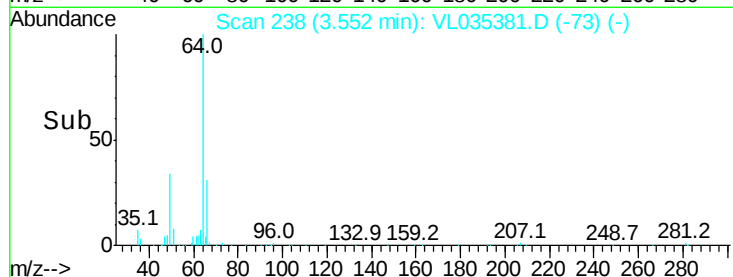
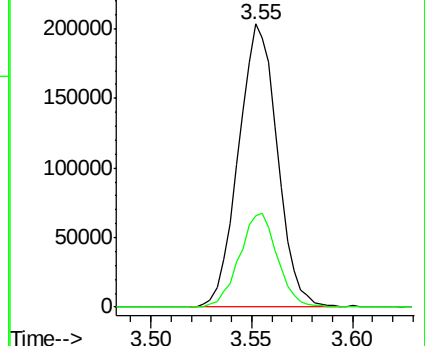
64 100

66 32.1 23.0 34.6



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 7.714 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.04 min

Lab File: VL035381.D

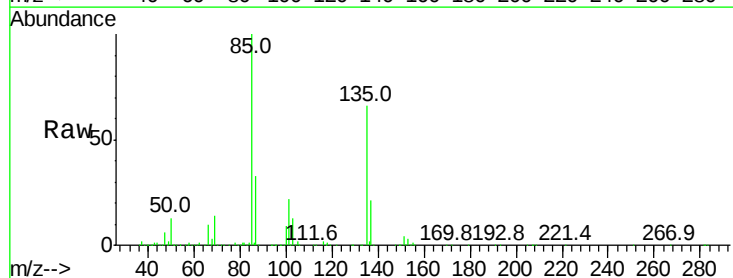
Acq: 12 Aug 2020 11:57

Tgt Ion: 85 Resp: 1644756

Ion Ratio Lower Upper

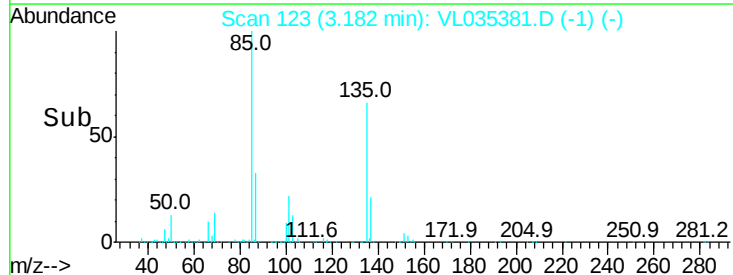
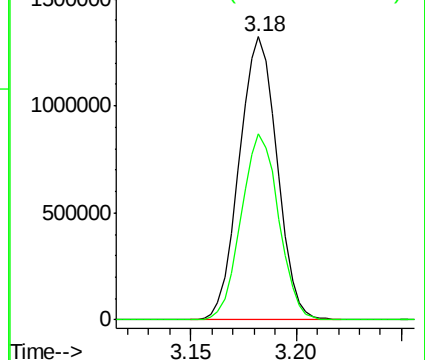
85 100

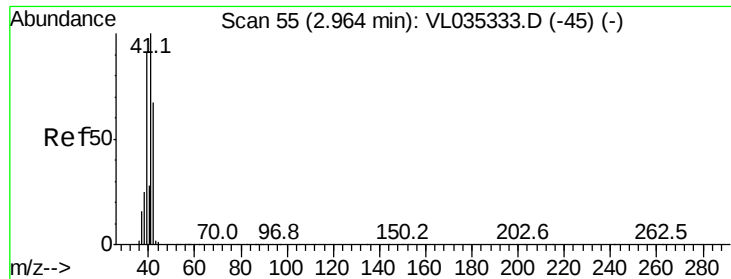
135 65.6 54.5 81.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 12.908 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.04 min

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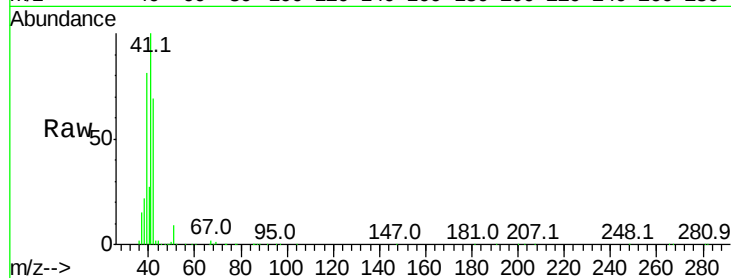
VSTDICCC010

Tgt Ion: 41 Resp: 712109

Ion Ratio Lower Upper

41 100

42 69.3 55.3 82.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.00

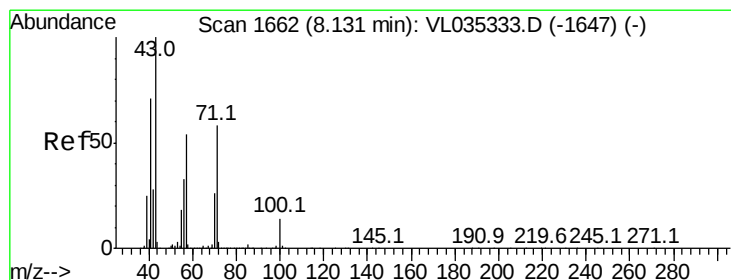
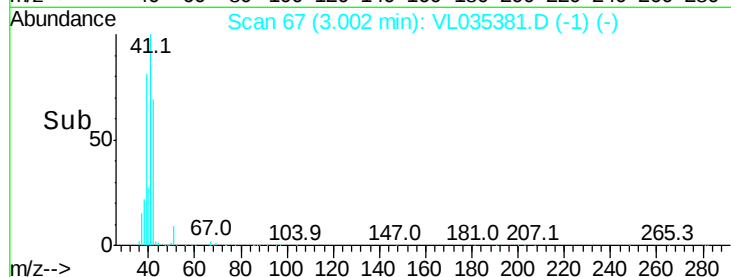
600000

400000

200000

0

Time--> 2.95 3.00 3.05



#10

Heptane

Concen: 13.138 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.01 min

Lab File: VL035381.D

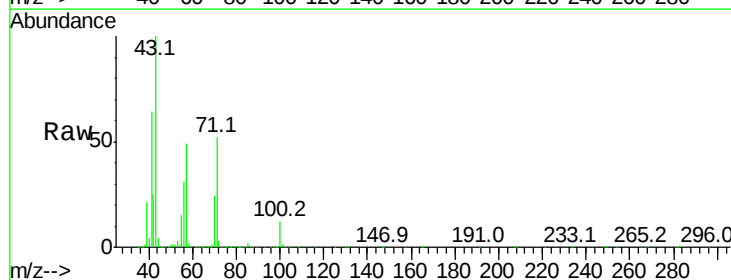
Acq: 12 Aug 2020 11:57

Tgt Ion: 43 Resp: 1851442

Ion Ratio Lower Upper

43 100

57 49.3 43.0 64.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.14

1000000

800000

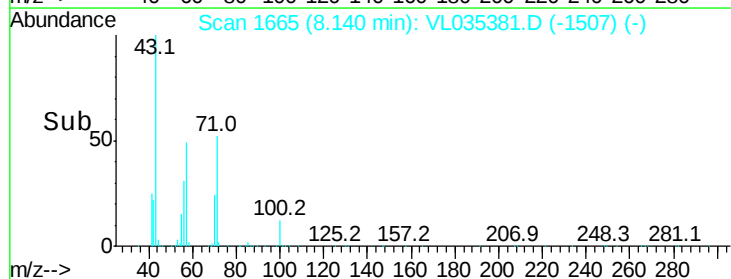
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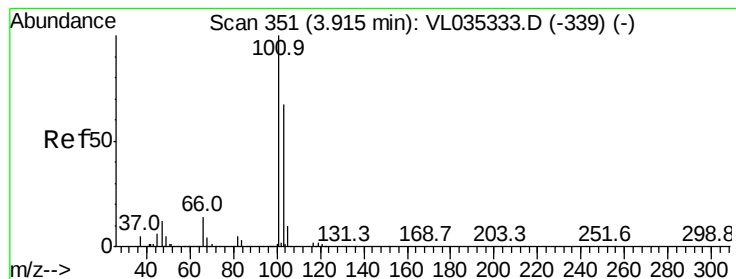
400000

200000

0

Time--> 8.05 8.10 8.15 8.20





#11

Trichlorofluoromethane

Concen: 7.358 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.03 min

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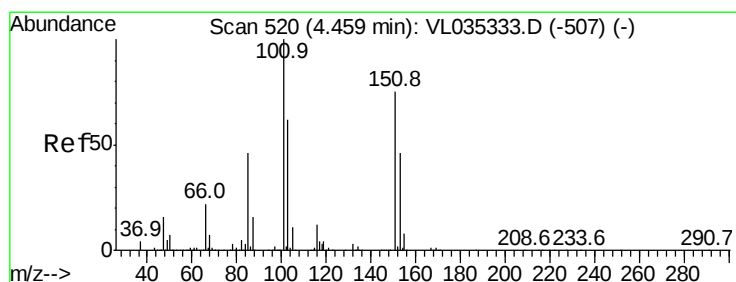
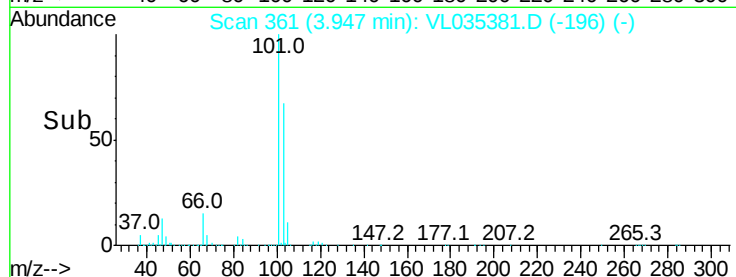
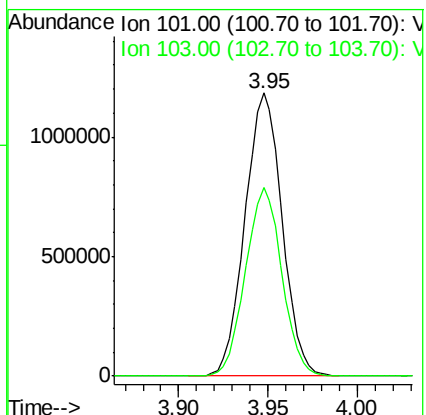
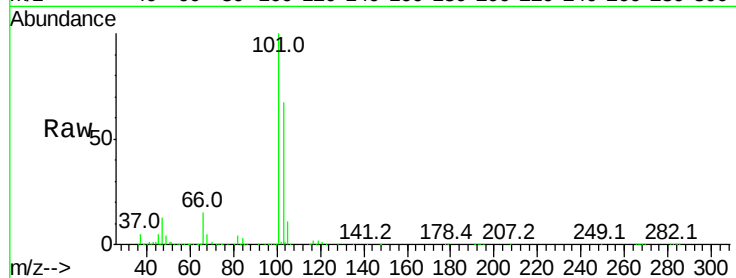
VSTDICCC010

Tgt Ion:101 Resp: 1719729

Ion Ratio Lower Upper

101 100

103 66.6 53.8 80.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 7.085 ppbv

RT: 4.48 min Scan# 528

Delta R.T. 0.03 min

Lab File: VL035381.D

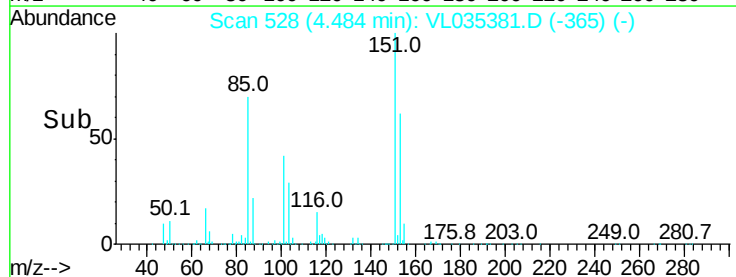
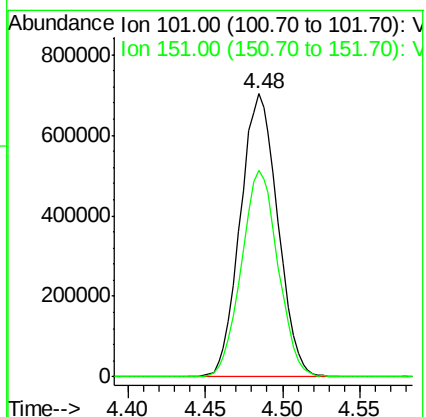
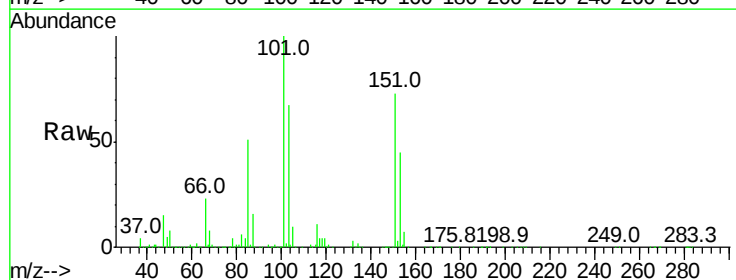
Acq: 12 Aug 2020 11:57

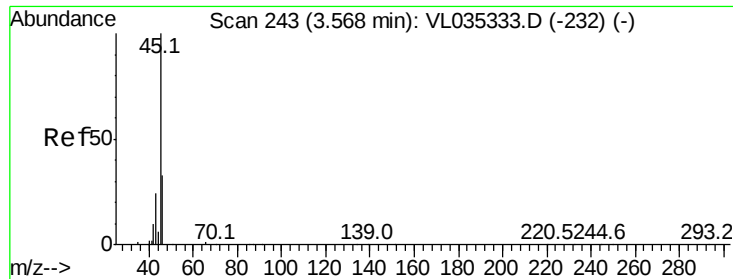
Tgt Ion:101 Resp: 1183550

Ion Ratio Lower Upper

101 100

151 71.3 59.5 89.3





#13

Ethanol

Concen: 10.630 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.03 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

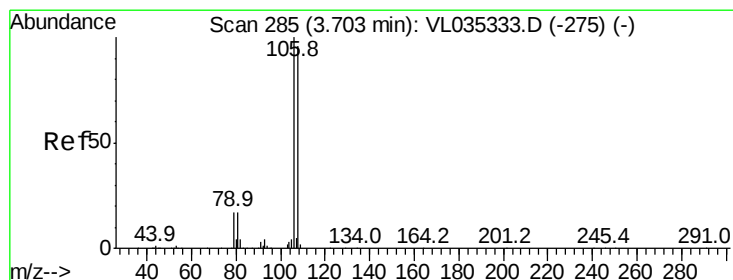
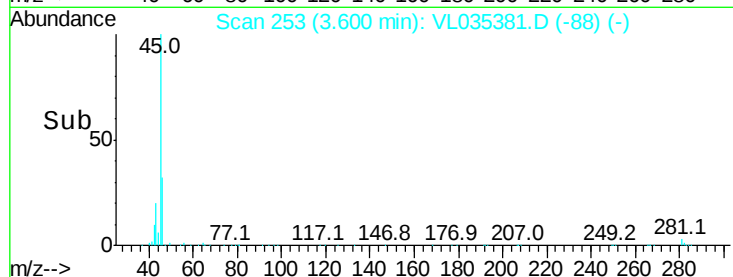
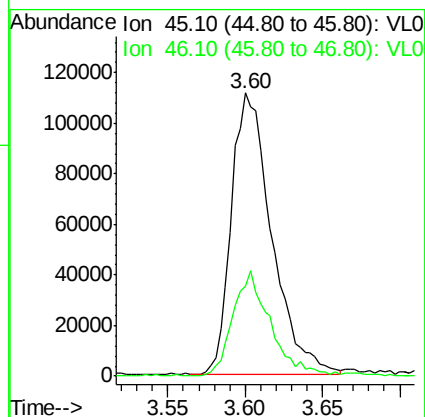
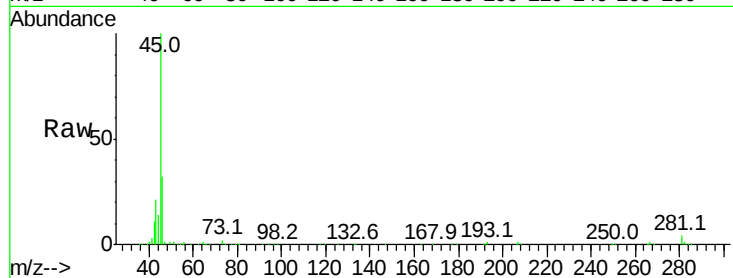
VSTDICCC010

Tgt Ion: 45 Resp: 202259

Ion Ratio Lower Upper

45 100

46 35.2 15.2 61.0



#14

Bromoethene

Concen: 8.155 ppbv

RT: 3.74 min Scan# 295

Delta R.T. 0.03 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

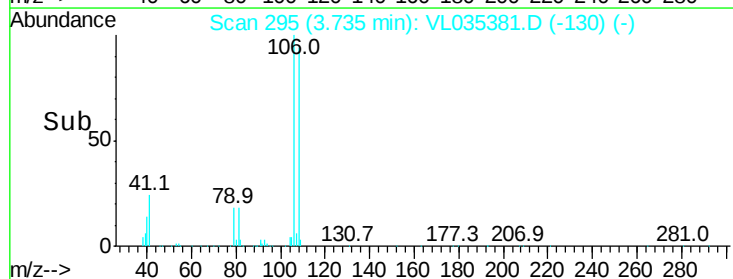
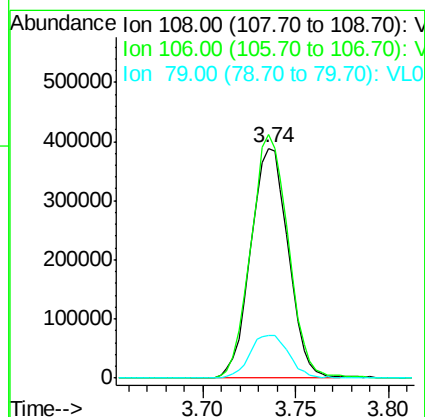
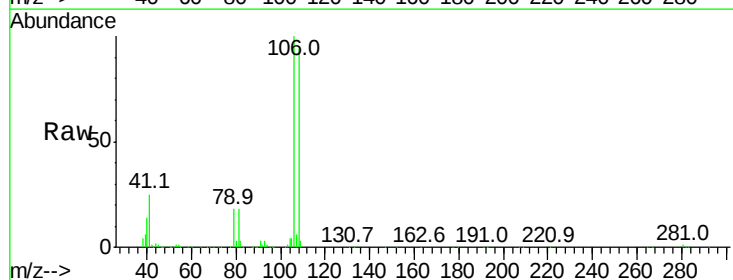
Tgt Ion: 108 Resp: 546281

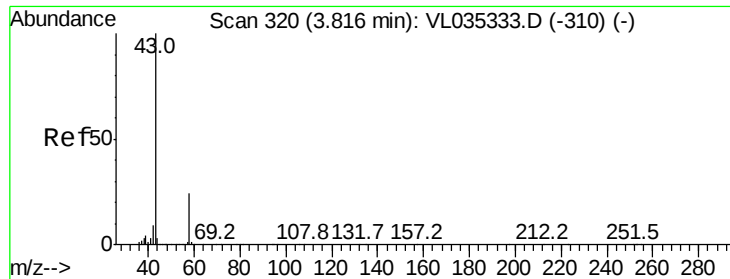
Ion Ratio Lower Upper

108 100

106 106.1 85.0 127.6

79 19.8 15.0 22.6





#15

Acetone

Concen: 7.203 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.03 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

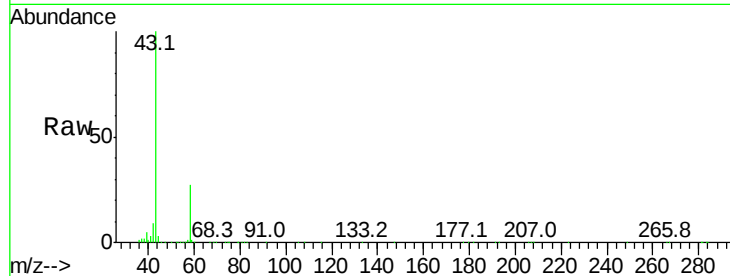
VSTDICCC010

Tgt Ion: 43 Resp: 1387217

Ion Ratio Lower Upper

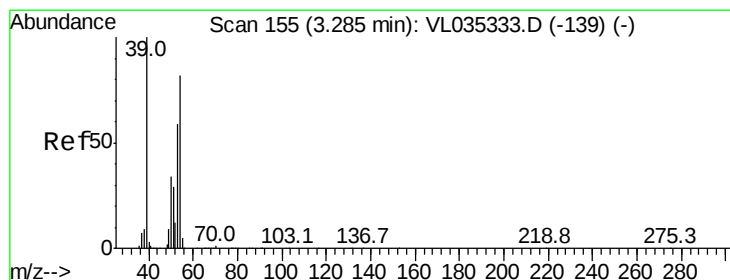
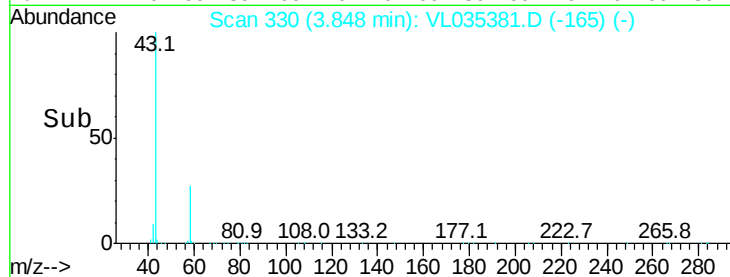
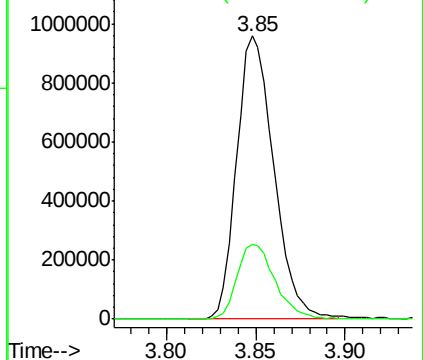
43 100

58 27.1 21.0 31.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.978 ppbv

RT: 3.32 min Scan# 166

Delta R.T. 0.04 min

Lab File: VL035381.D

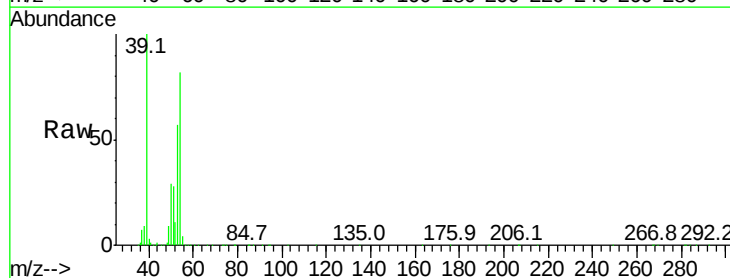
Acq: 12 Aug 2020 11:57

Tgt Ion: 39 Resp: 739667

Ion Ratio Lower Upper

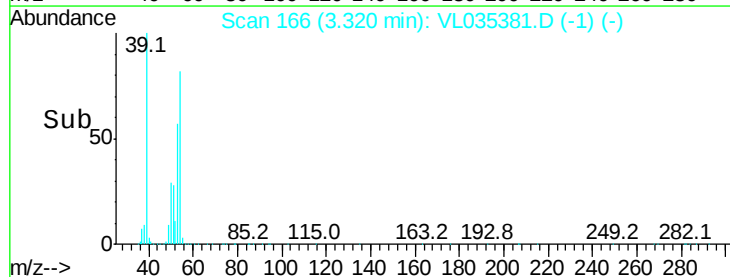
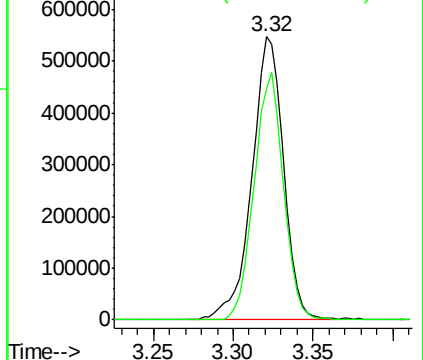
39 100

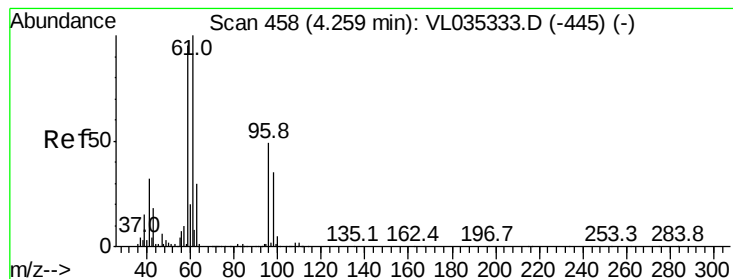
54 81.1 64.4 96.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 10.365 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.04 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

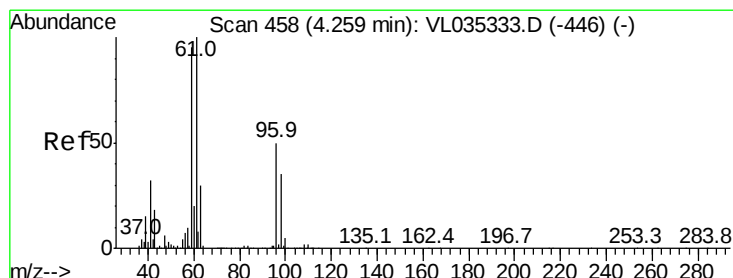
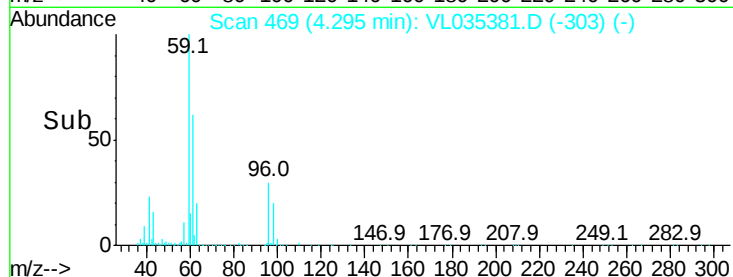
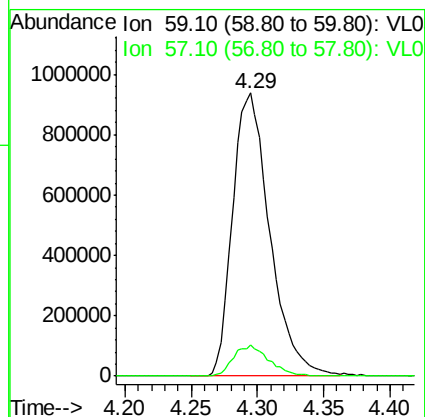
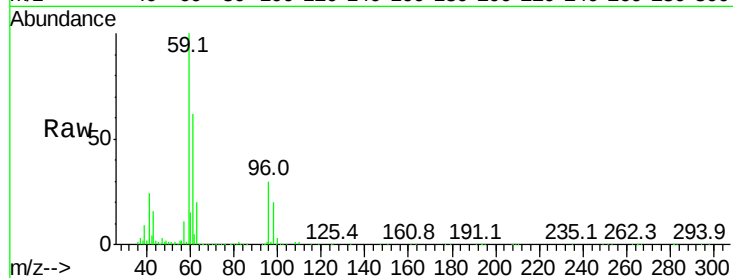
VSTDICCC010

Tgt Ion: 59 Resp: 1832262

Ion Ratio Lower Upper

59 100

57 10.8 8.8 13.2



#18

1,1-Dichloroethene

Concen: 7.686 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.03 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

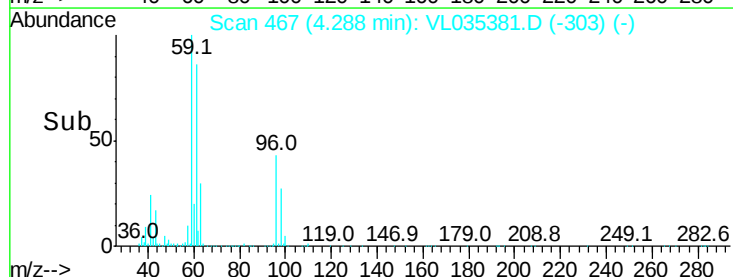
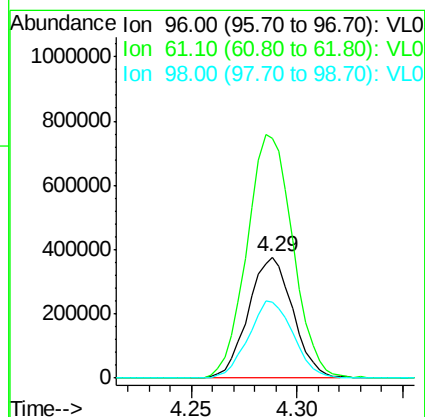
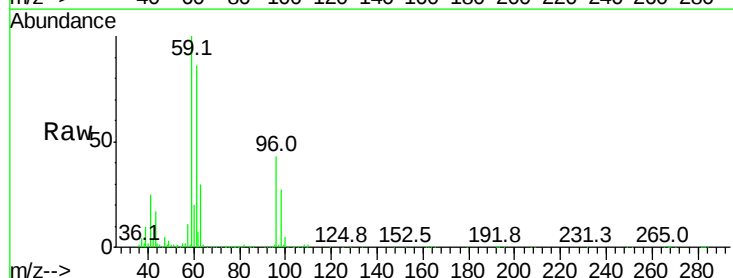
Tgt Ion: 96 Resp: 551372

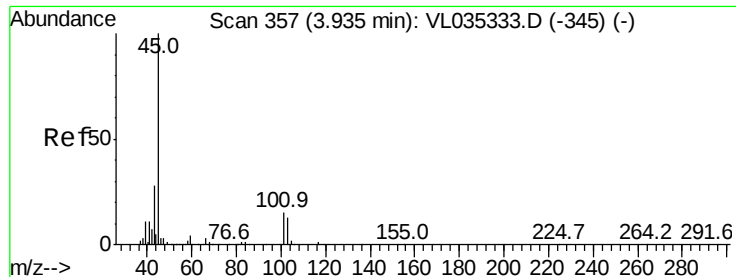
Ion Ratio Lower Upper

96 100

61 198.7 161.4 242.2

98 62.9 56.0 84.0





#19

Isopropyl Alcohol

Concen: 9.950 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.03 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

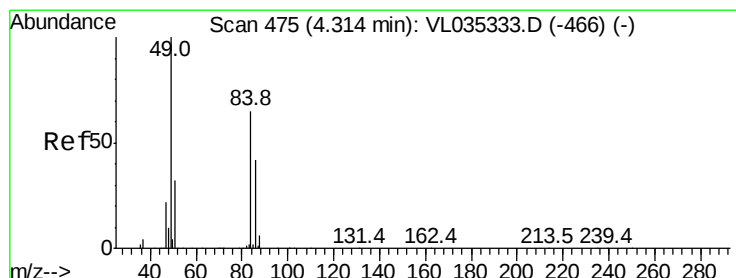
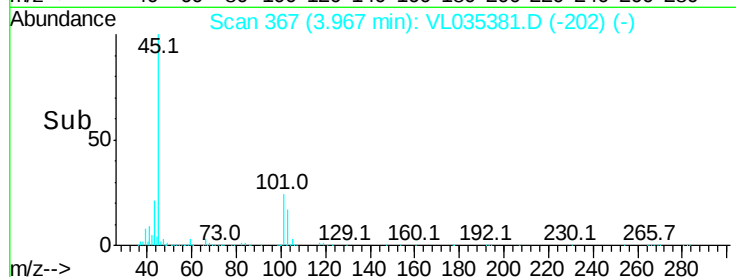
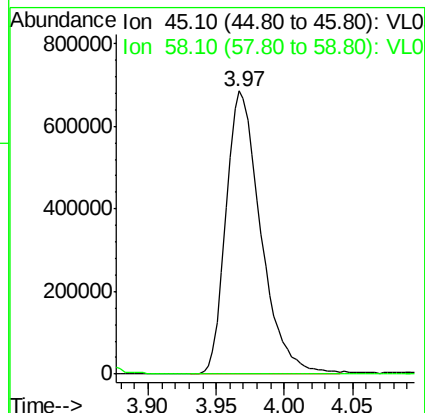
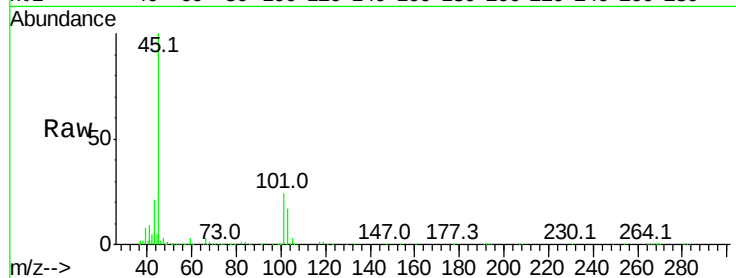
VSTDICCC010

Tgt Ion: 45 Resp: 1214739

Ion Ratio Lower Upper

45 100

58 31.1 1.9 2.9#



#20

Methylene Chloride

Concen: 6.604 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.03 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Tgt Ion: 84 Resp: 518706

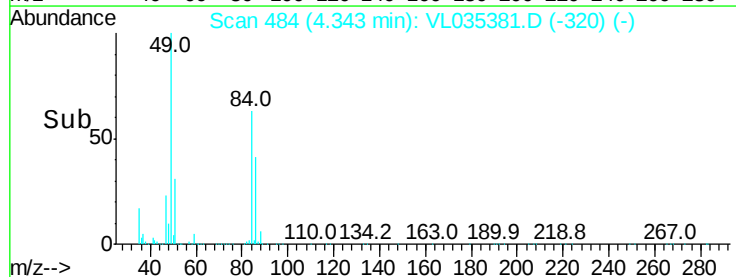
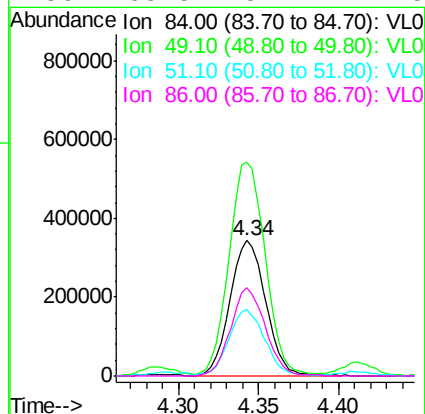
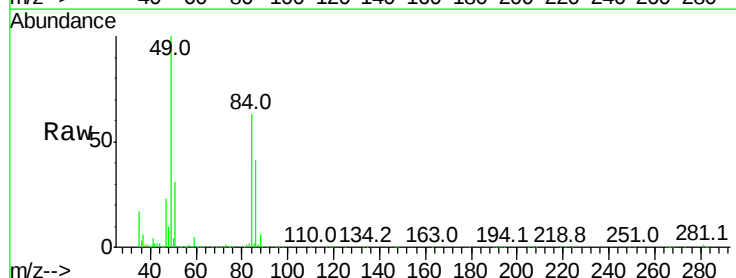
Ion Ratio Lower Upper

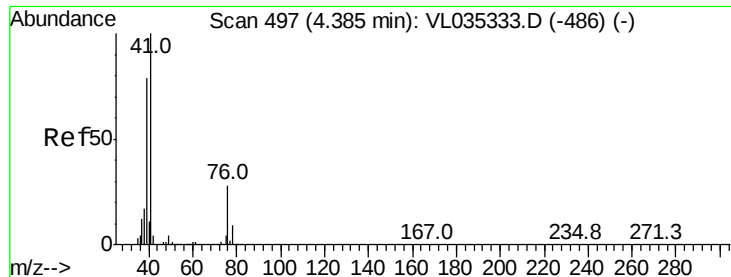
84 100

49 157.1 122.8 184.2

51 48.1 40.1 60.1

86 65.5 51.7 77.5





#21

Allyl Chloride

Concen: 9.216 ppbv

RT: 4.41 min Scan# 505

Delta R.T. 0.03 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

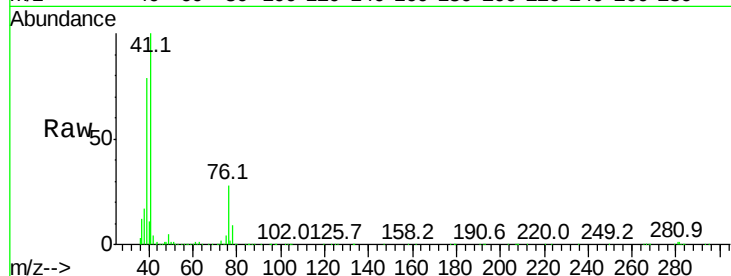
Tgt Ion: 41 Resp: 1016971

Ion Ratio Lower Upper

41 100

76 28.0 23.8 35.6

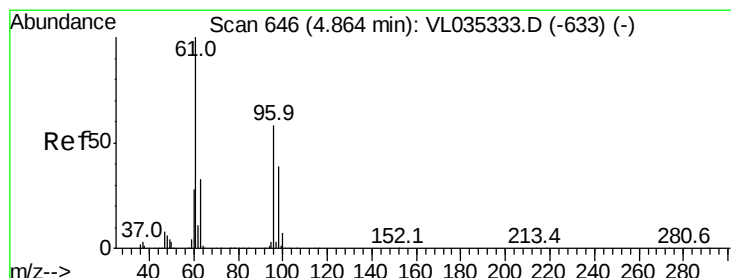
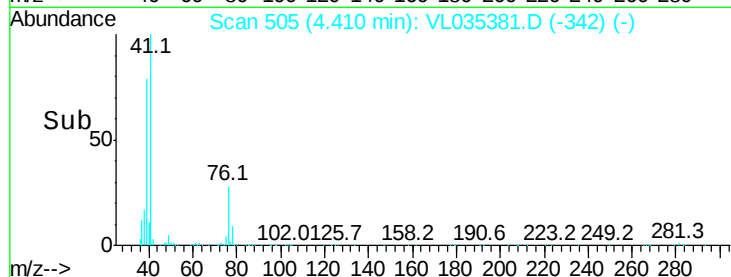
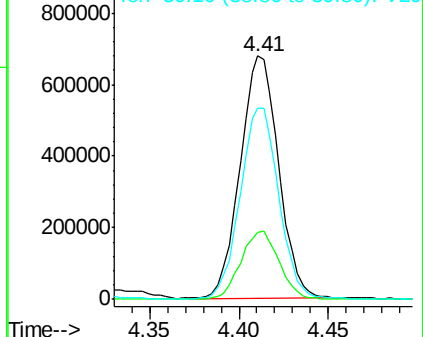
39 78.7 65.0 97.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 8.201 ppbv

RT: 4.89 min Scan# 653

Delta R.T. 0.02 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

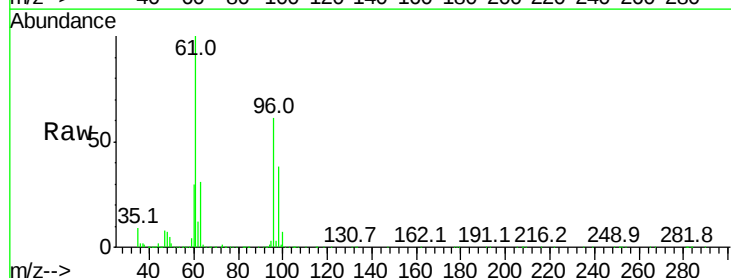
Tgt Ion: 96 Resp: 570444

Ion Ratio Lower Upper

96 100

61 164.7 138.5 207.7

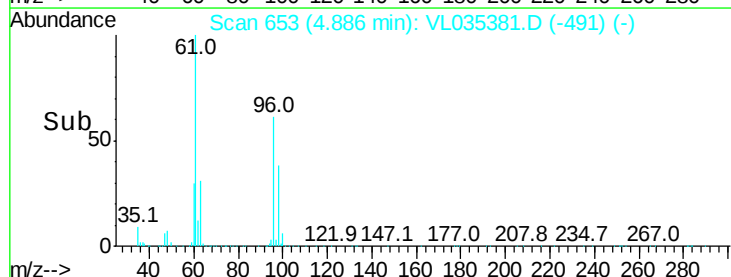
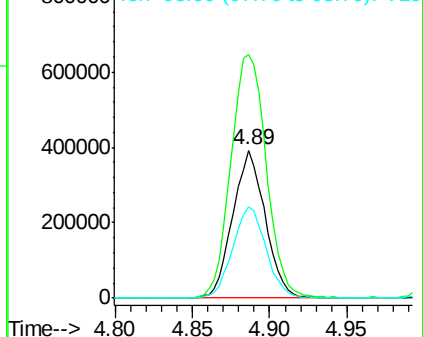
98 62.0 54.3 81.5

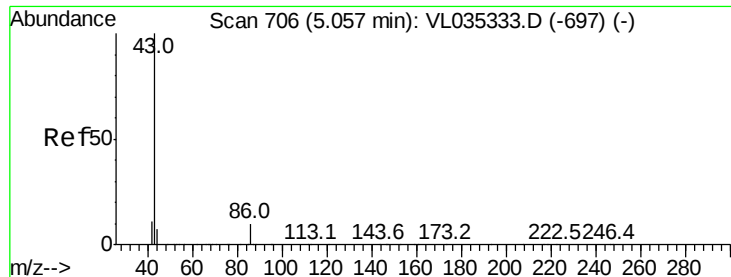


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



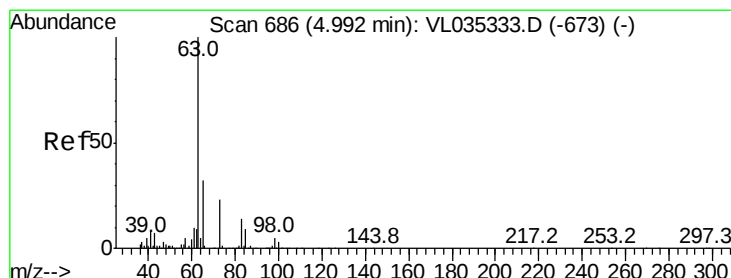
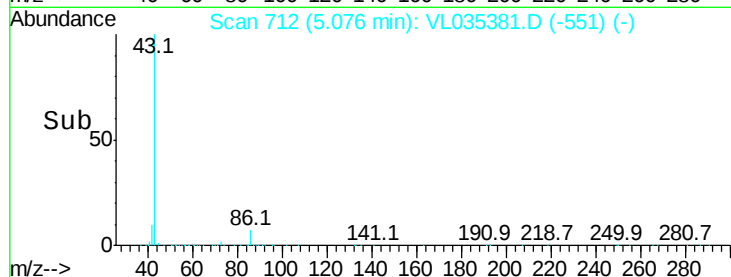
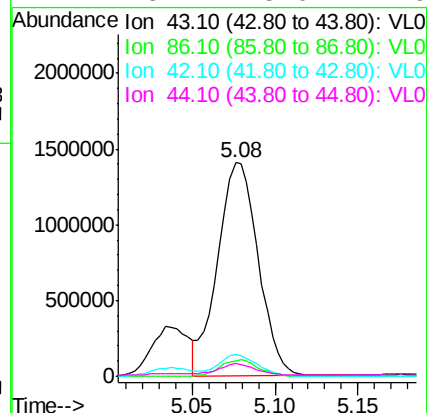
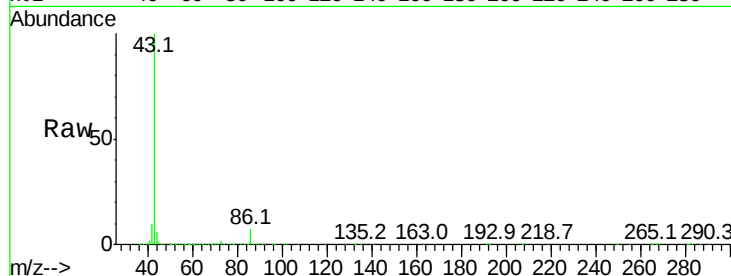


#23
 Vinyl Acetate
 Concen: 12.987 ppbv
 RT: 5.08 min Scan# 712
 Delta R.T. 0.02 min
 Lab File: VL035381.D
 Acq: 12 Aug 2020 11:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 43 Resp: 2398339

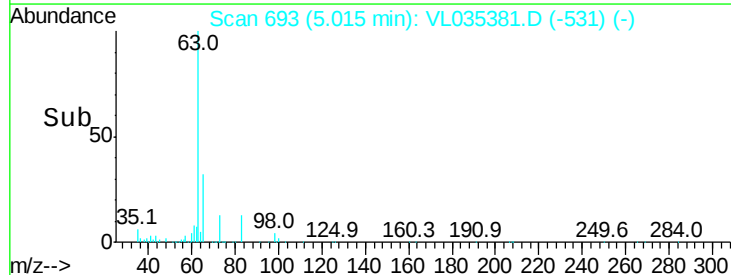
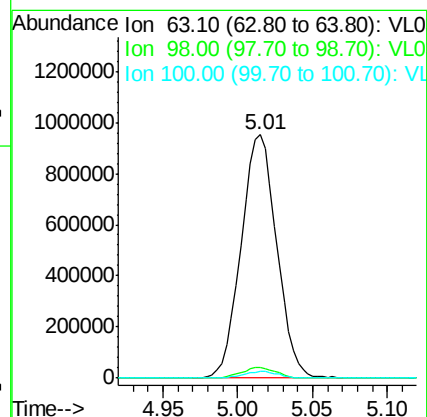
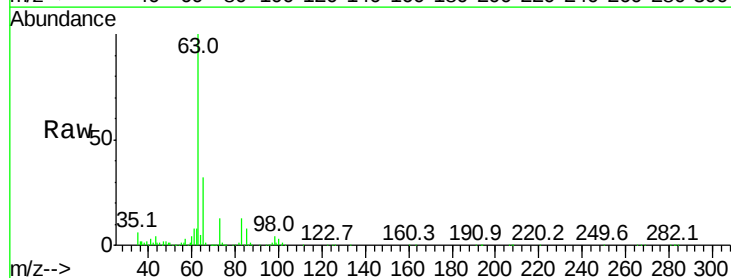
Ion	Ratio	Lower	Upper
43	100		
86	7.3	6.9	10.3
42	10.0	8.8	13.2
44	5.2	5.0	7.6

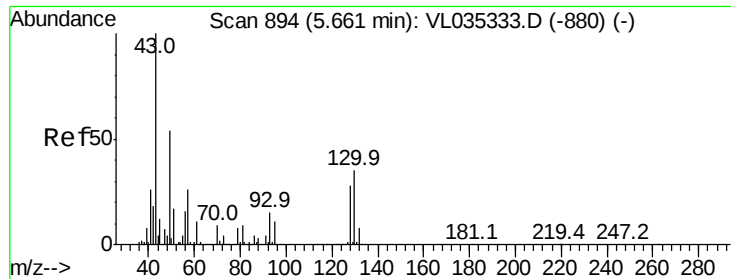


#24
 1,1-Dichloroethane
 Concen: 9.097 ppbv
 RT: 5.01 min Scan# 693
 Delta R.T. 0.02 min
 Lab File: VL035381.D
 Acq: 12 Aug 2020 11:57

Tgt Ion: 63 Resp: 1578859

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.5	7.5
100	2.7	1.4	4.2

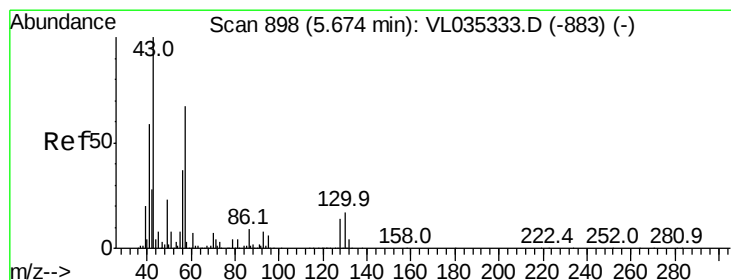
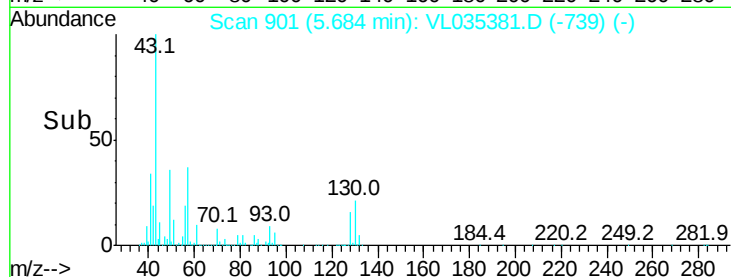
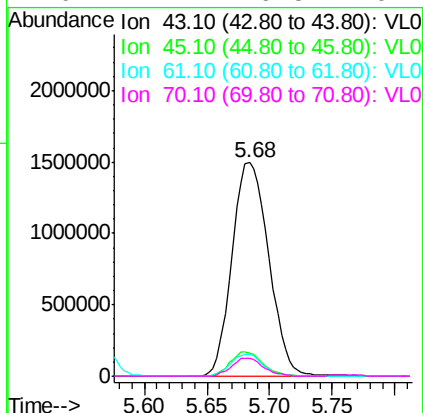
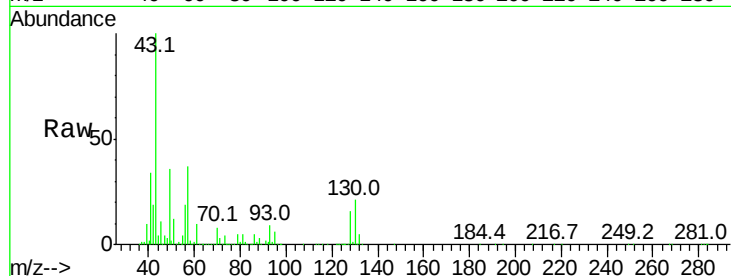




#25
Ethyl Acetate
Concen: 10.377 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.02 min
Lab File: VL035381.D
Acq: 12 Aug 2020 11:57

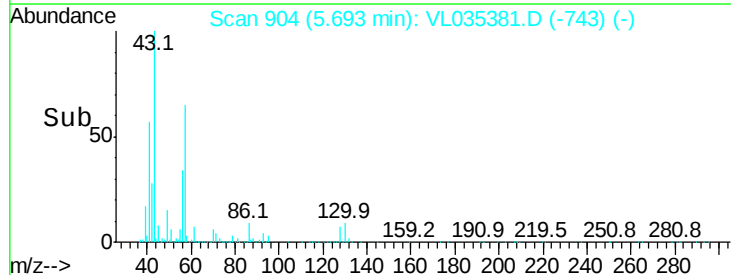
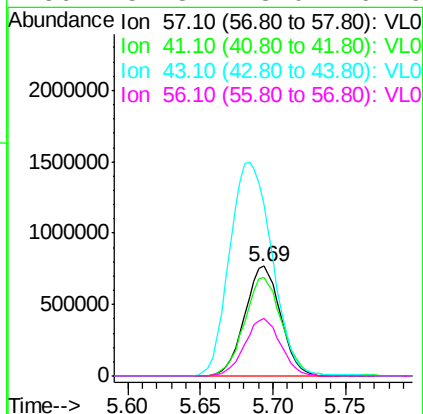
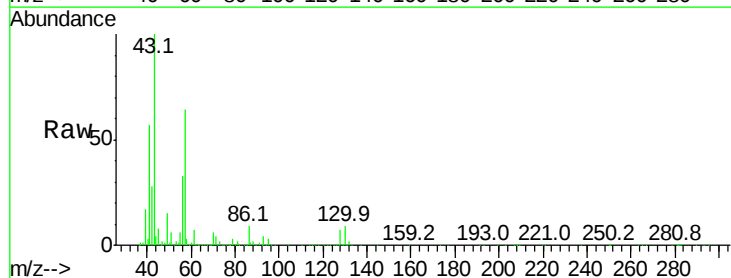
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

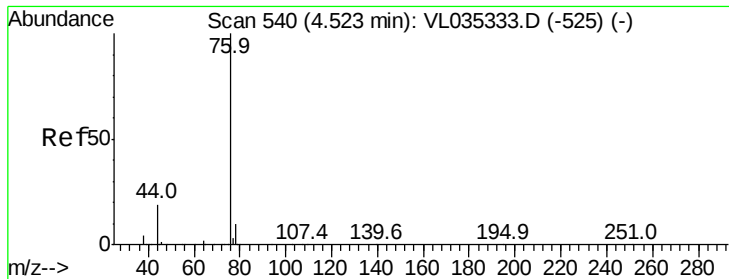
Tgt Ion:	43	Resp:	3036658
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.5	12.7
61	9.3	8.1	12.1
70	7.4	6.5	9.7



#26
Hexane
Concen: 10.408 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.02 min
Lab File: VL035381.D
Acq: 12 Aug 2020 11:57

Tgt Ion:	57	Resp:	1321125
Ion	Ratio	Lower	Upper
57	100		
41	94.3	75.2	112.8
43	230.1	180.6	270.8
56	52.8	43.0	64.6





#27

Carbon Disulfide

Concen: 8.664 ppbv

RT: 4.55 min Scan# 548

Delta R.T. 0.03 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

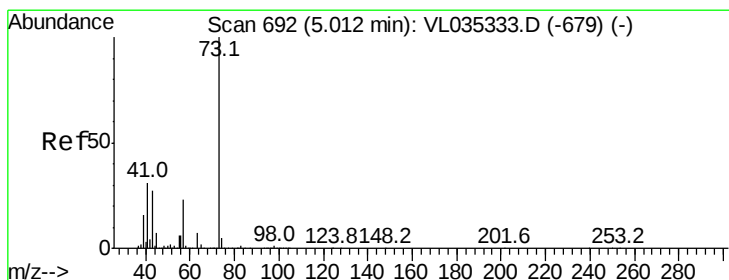
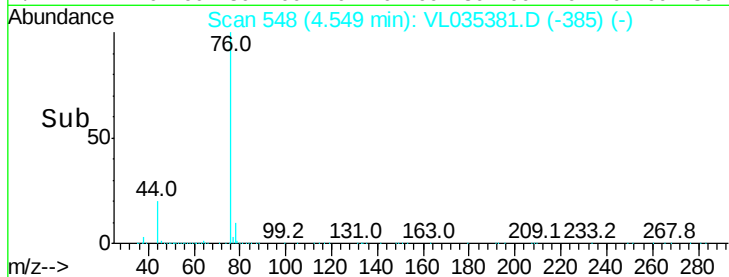
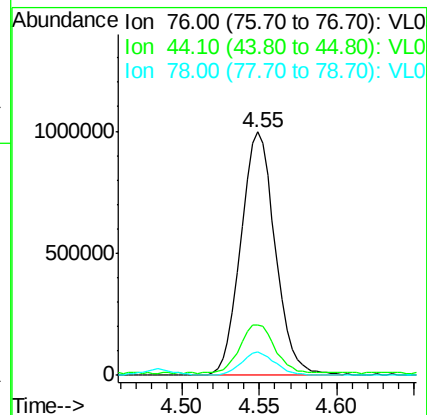
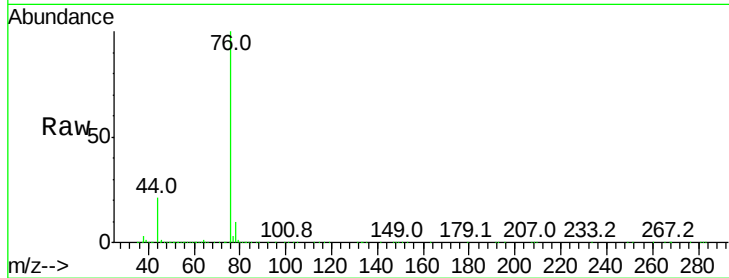
Tgt Ion: 76 Resp: 1537897

Ion Ratio Lower Upper

76 100

44 21.2 15.4 23.2

78 9.4 7.7 11.5



#28

Methyl tert-Butyl Ether

Concen: 11.902 ppbv

RT: 5.04 min Scan# 700

Delta R.T. 0.03 min

Lab File: VL035381.D

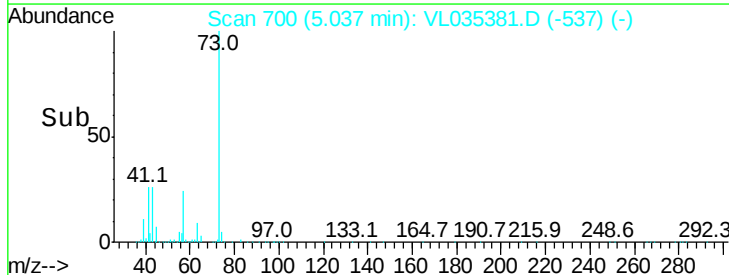
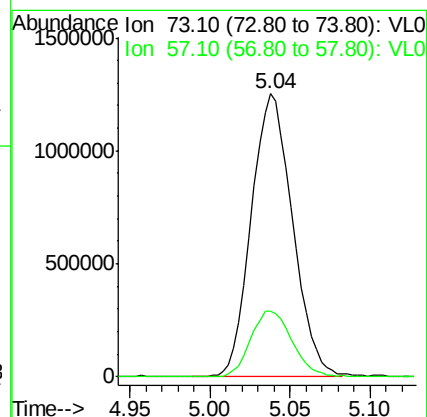
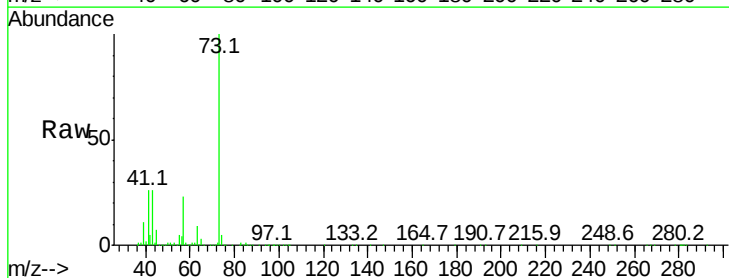
Acq: 12 Aug 2020 11:57

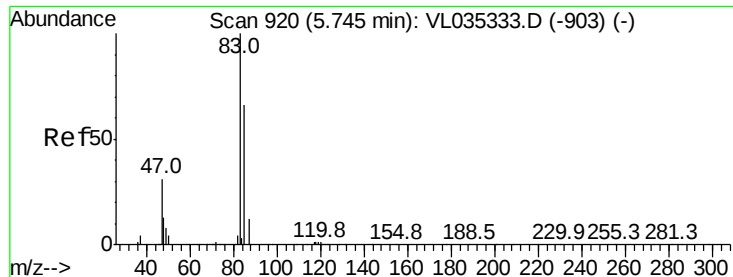
Tgt Ion: 73 Resp: 2196708

Ion Ratio Lower Upper

73 100

57 23.7 17.9 26.9





#29

Chloroform

Concen: 8.835 ppbv

RT: 5.76 min Scan# 924

Delta R.T. 0.01 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

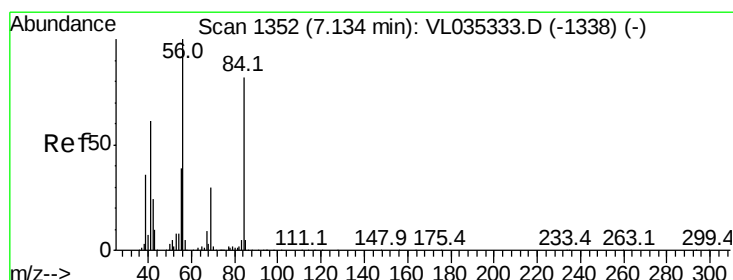
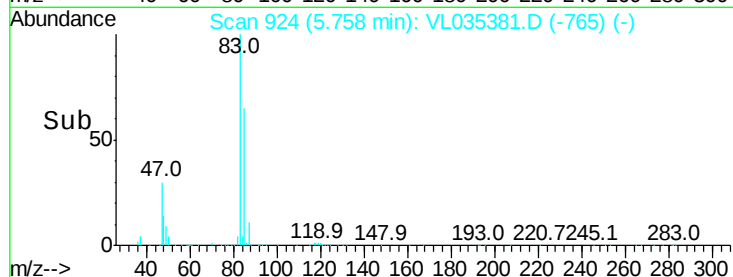
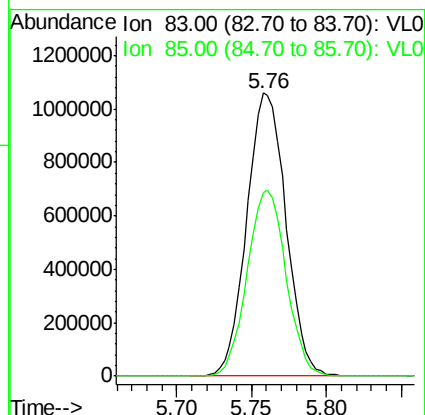
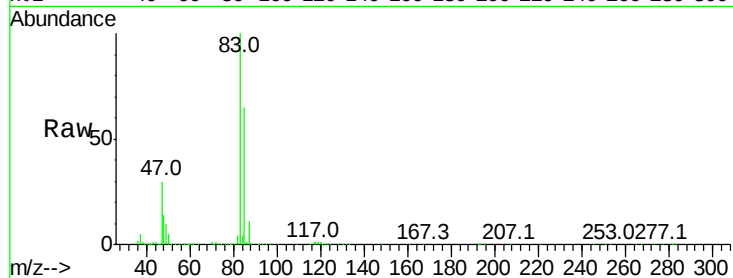
VSTDICCC010

Tgt Ion: 83 Resp: 1933415

Ion Ratio Lower Upper

83 100

85 64.6 52.9 79.3



#30

Cyclohexane

Concen: 11.479 ppbv

RT: 7.14 min Scan# 1354

Delta R.T. 0.01 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

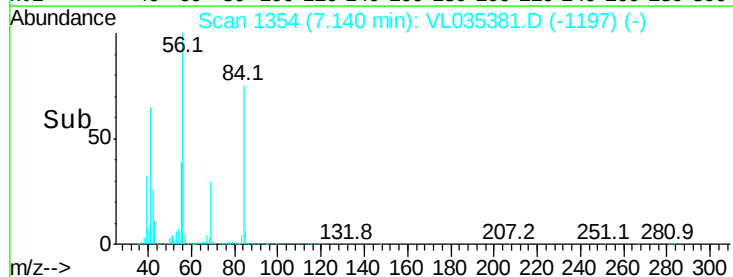
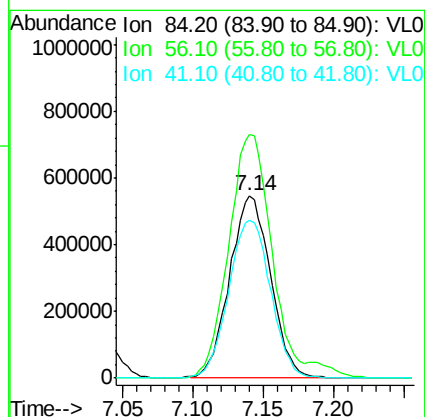
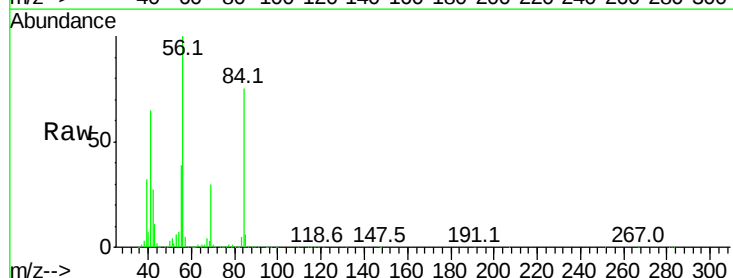
Tgt Ion: 84 Resp: 1104924

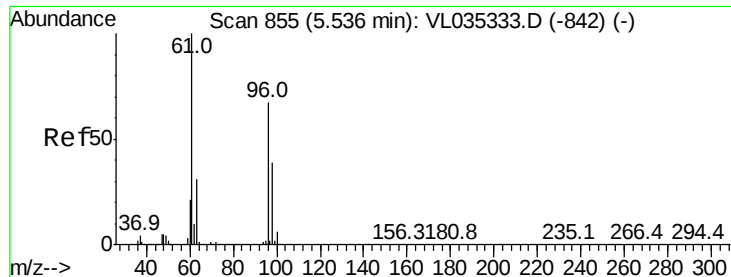
Ion Ratio Lower Upper

84 100

56 144.7 104.7 157.1

41 89.2 64.2 96.2



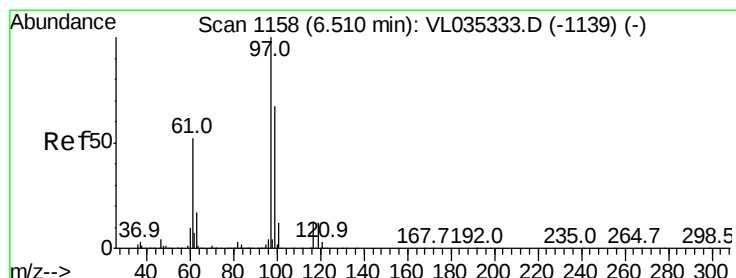
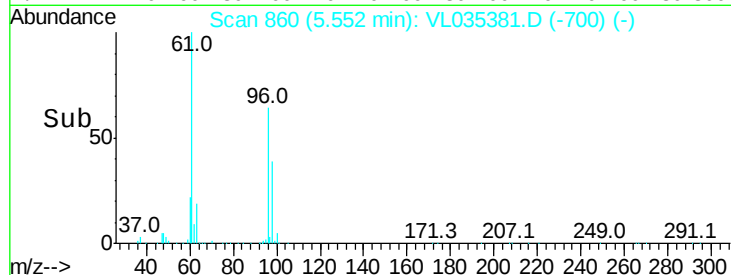
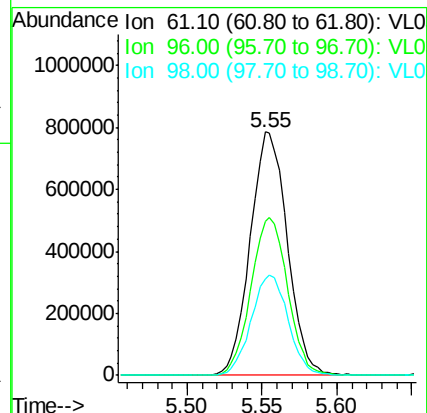
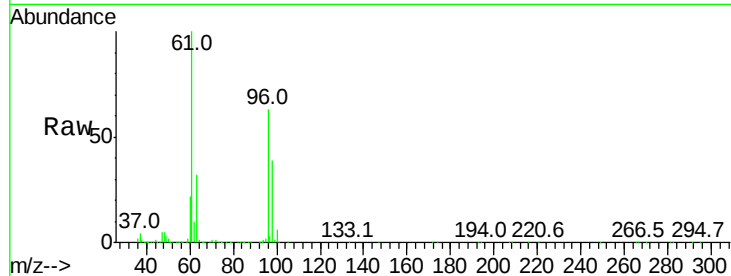


#31

cis-1,2-Dichloroethene
Concen: 12.022 ppbv
RT: 5.55 min Scan# 860
Delta R.T. 0.02 min
Lab File: VL035381.D
Acq: 12 Aug 2020 11:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

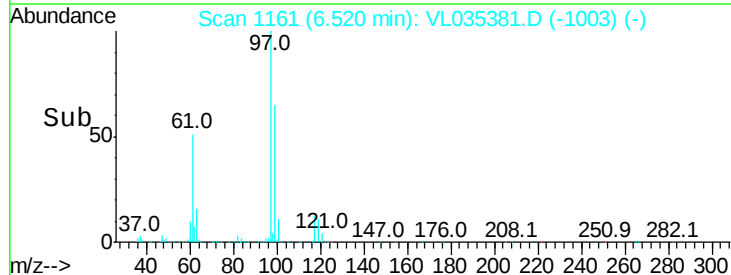
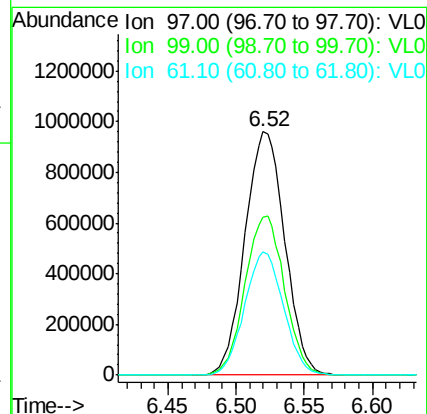
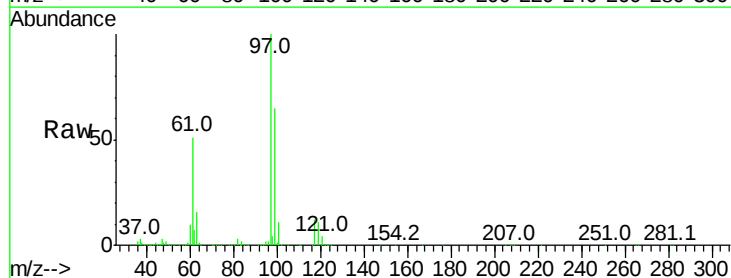
Tgt Ion: 61 Resp: 1356589
Ion Ratio Lower Upper
61 100
96 63.1 53.6 80.4
98 39.4 31.0 46.4

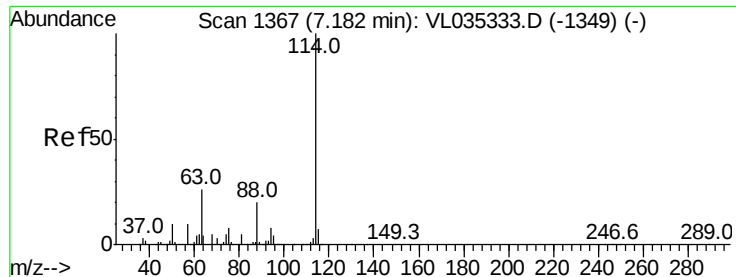


#32

1,1,1-Trichloroethane
Concen: 8.459 ppbv
RT: 6.52 min Scan# 1161
Delta R.T. 0.01 min
Lab File: VL035381.D
Acq: 12 Aug 2020 11:57

Tgt Ion: 97 Resp: 1945559
Ion Ratio Lower Upper
97 100
99 64.8 52.2 78.4
61 49.5 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. 0.01 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

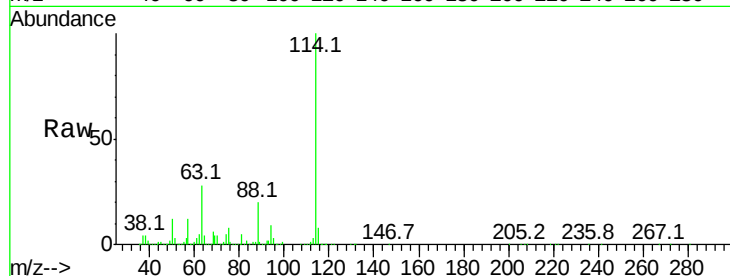
Tgt Ion:114 Resp: 3293333

Ion Ratio Lower Upper

114 100

63 26.9 21.3 31.9

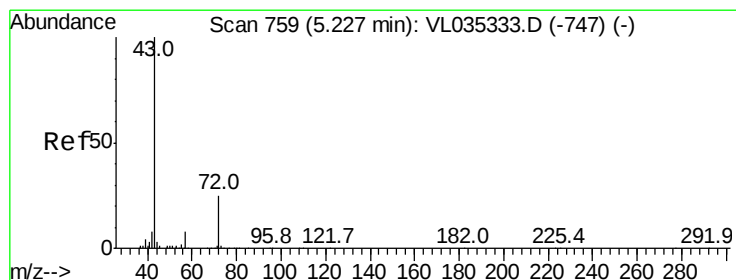
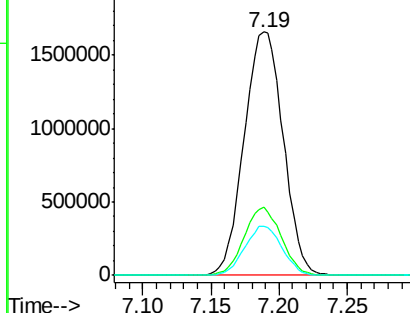
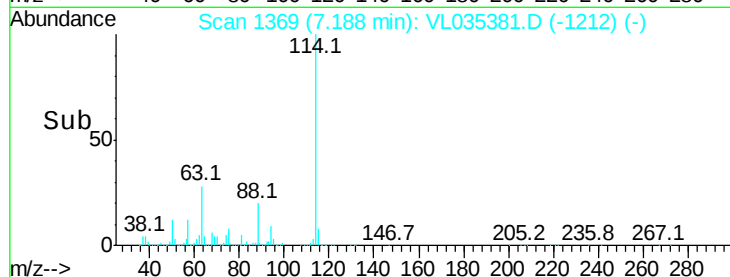
88 19.5 15.3 22.9



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 12.481 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.02 min

Lab File: VL035381.D

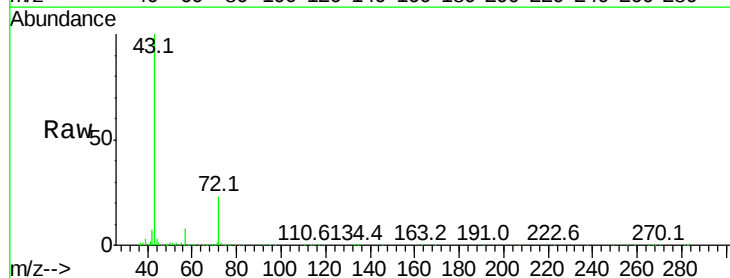
Acq: 12 Aug 2020 11:57

Tgt Ion: 43 Resp: 2023870

Ion Ratio Lower Upper

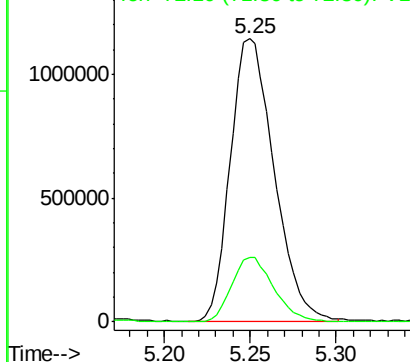
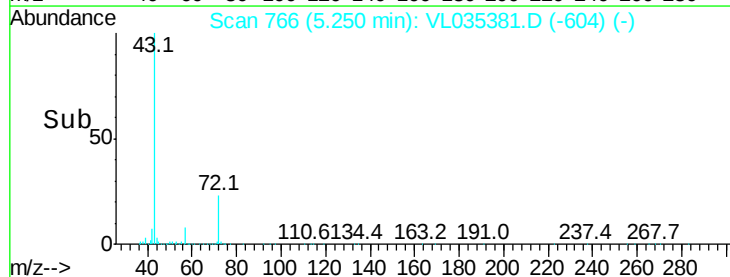
43 100

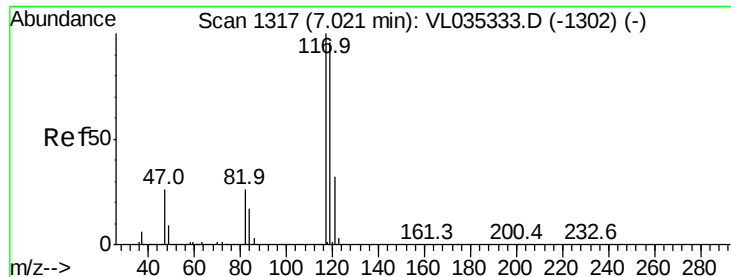
72 22.1 18.9 28.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.508 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. 0.01 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

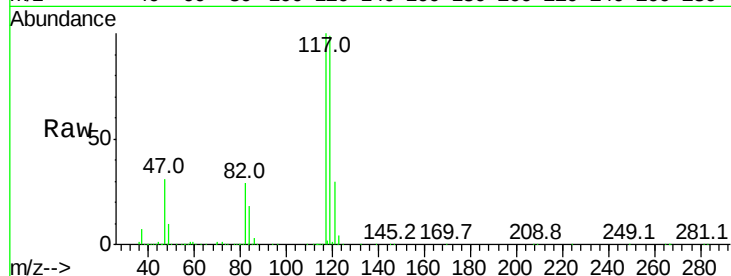
Tgt Ion:117 Resp: 1928141

Ion Ratio Lower Upper

117 100

119 99.2 77.0 115.6

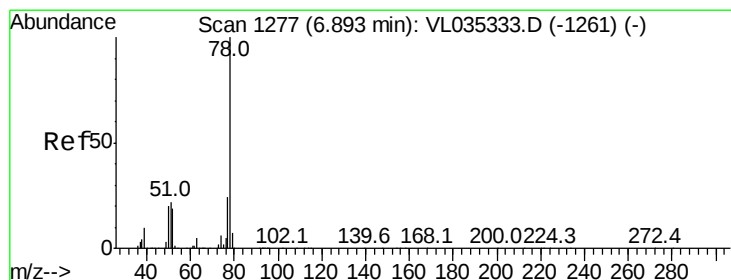
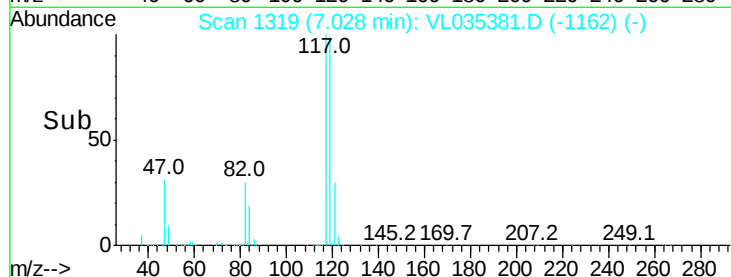
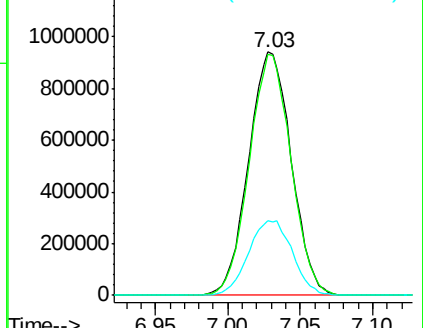
121 30.4 26.0 39.0



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: 12.172 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. 0.01 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

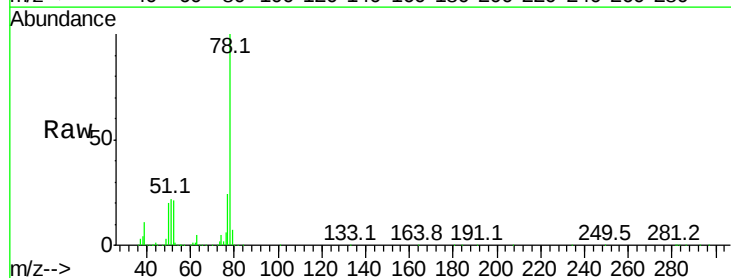
Tgt Ion: 78 Resp: 2706773

Ion Ratio Lower Upper

78 100

77 23.9 19.3 28.9

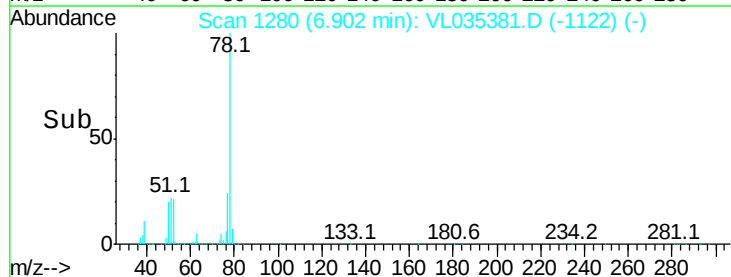
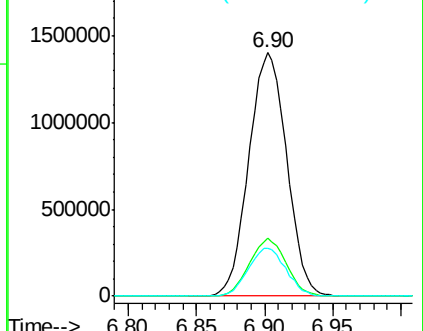
50 19.7 16.3 24.5

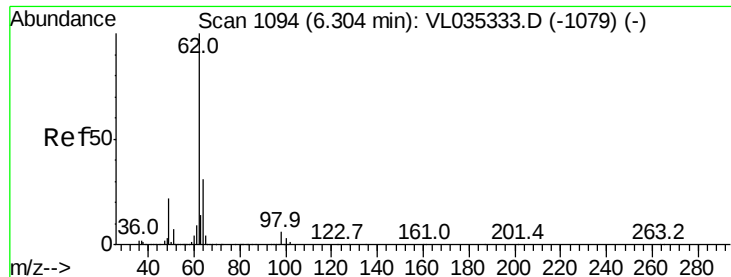


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

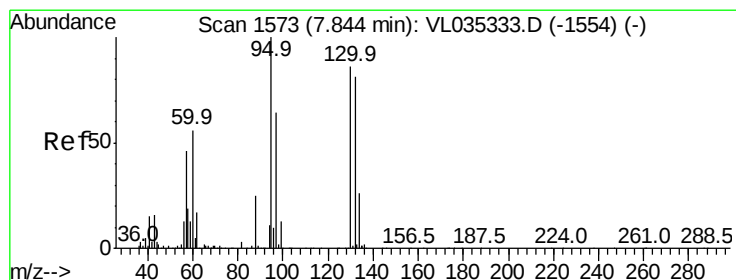
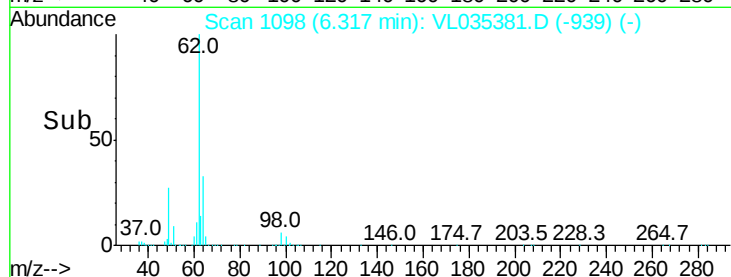
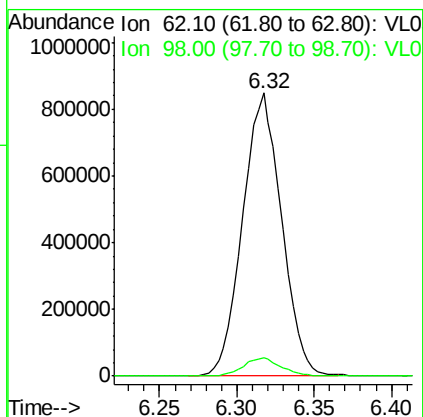
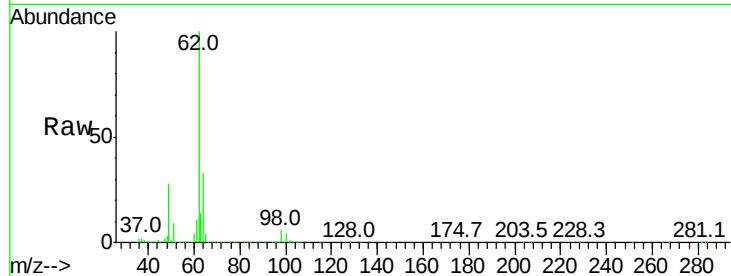




#37
 1,2-Dichloroethane
 Concen: 9.595 ppbv
 RT: 6.32 min Scan# 1098
 Delta R.T. 0.01 min
 Lab File: VL035381.D
 Acq: 12 Aug 2020 11:57

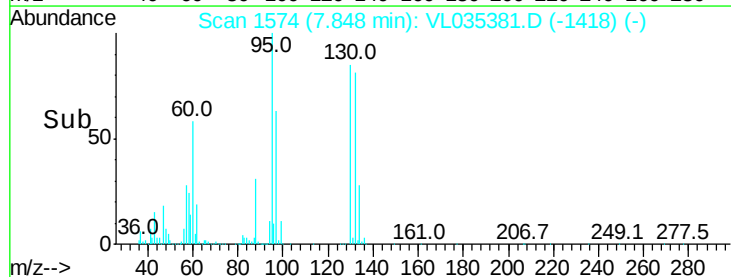
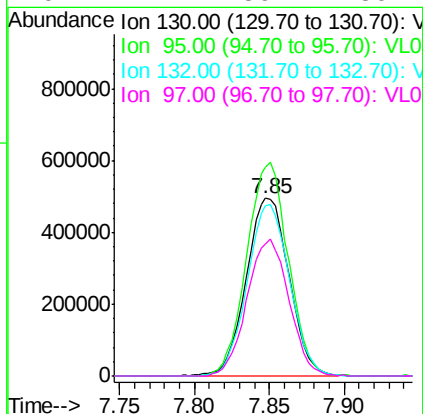
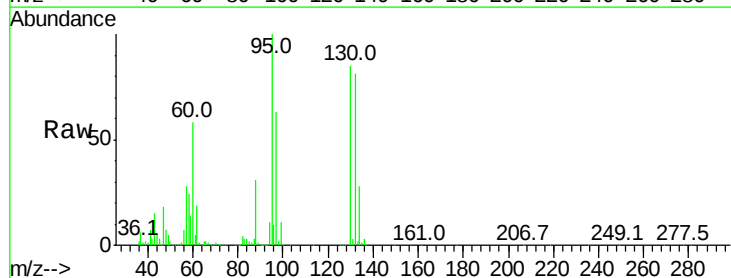
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

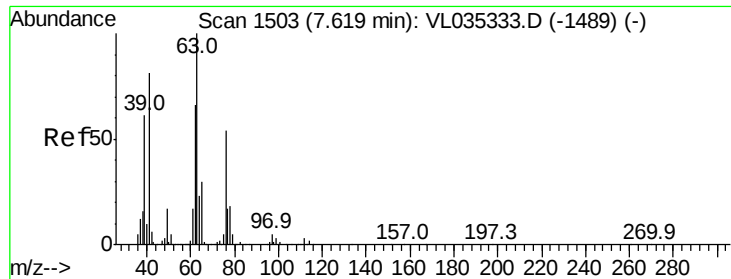
Tgt Ion: 62 Resp: 1490608
 Ion Ratio Lower Upper
 62 100
 98 6.4 4.6 7.0



#38
 Trichloroethene
 Concen: 9.517 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VL035381.D
 Acq: 12 Aug 2020 11:57

Tgt Ion: 130 Resp: 976303
 Ion Ratio Lower Upper
 130 100
 95 117.8 93.4 140.2
 132 95.7 76.1 114.1
 97 74.1 59.4 89.2





#39

1,2-Dichloropropane

Concen: 11.913 ppbv

RT: 7.63 min Scan# 1505

Delta R.T. 0.01 min

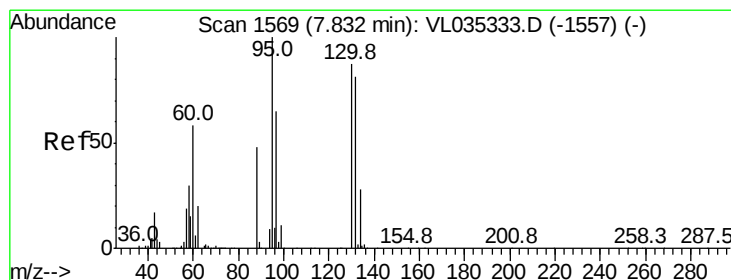
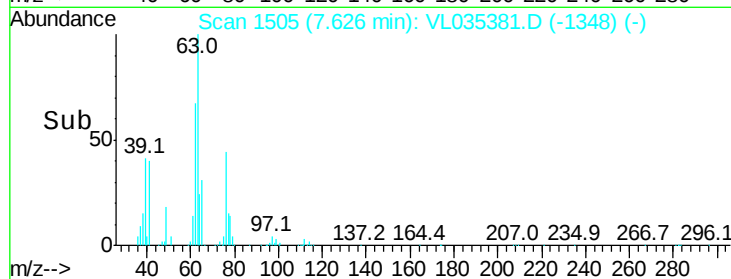
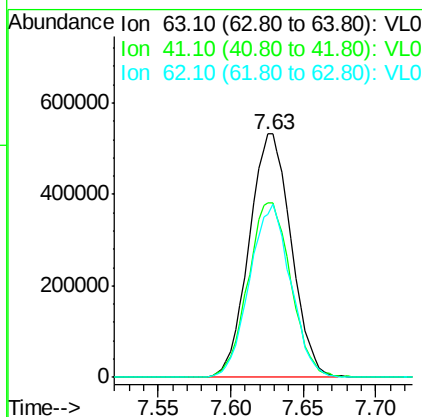
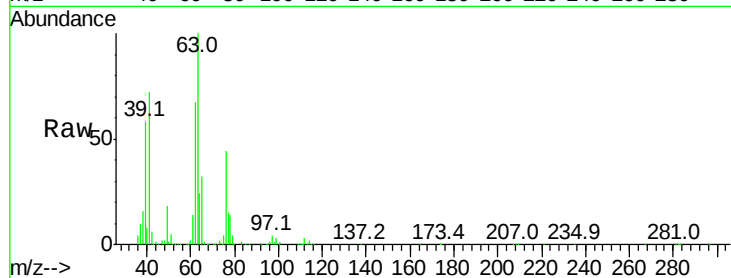
Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 63 Resp: 1072506

Ion	Ratio	Lower	Upper
63	100		
41	71.8	64.4	96.6
62	67.0	52.6	78.8



#40

1,4-Dioxane

Concen: 11.018 ppbv

RT: 7.84 min Scan# 1573

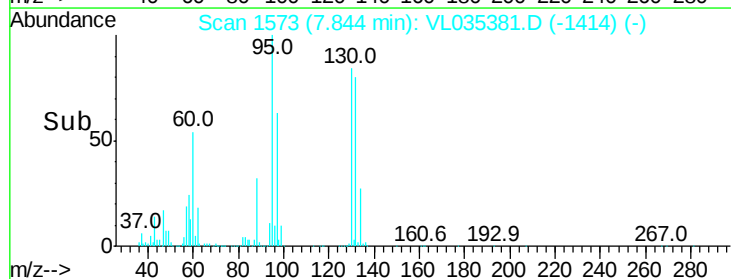
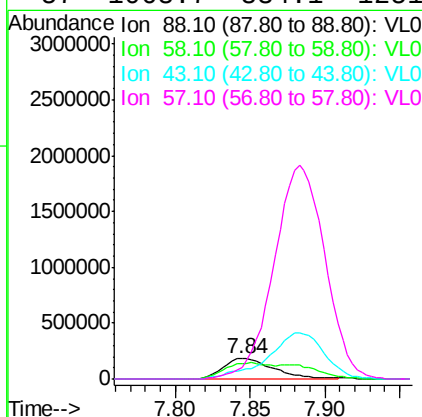
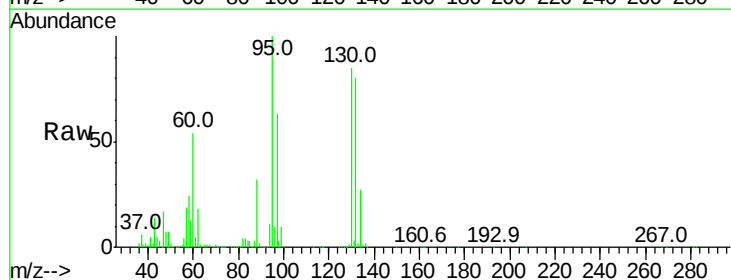
Delta R.T. 0.01 min

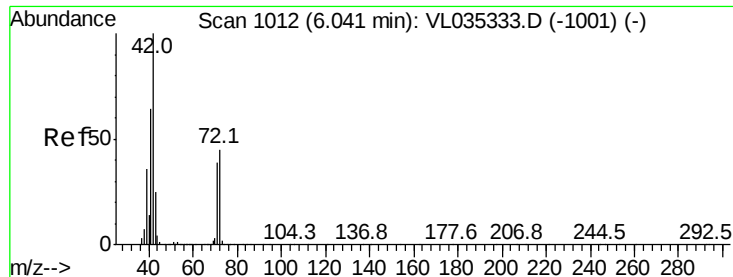
Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Tgt Ion: 88 Resp: 424809

Ion	Ratio	Lower	Upper
88	100		
58	131.3	96.7	145.1
43	255.2	190.7	286.1
57	1068.7	834.1	1251.1

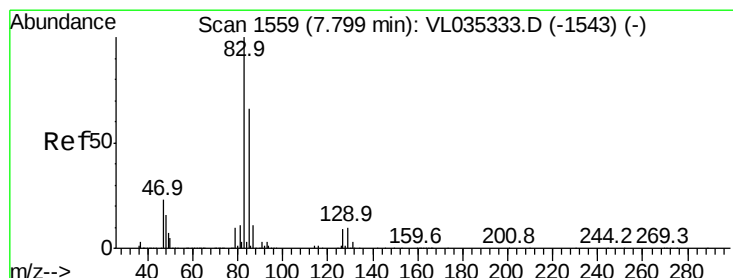
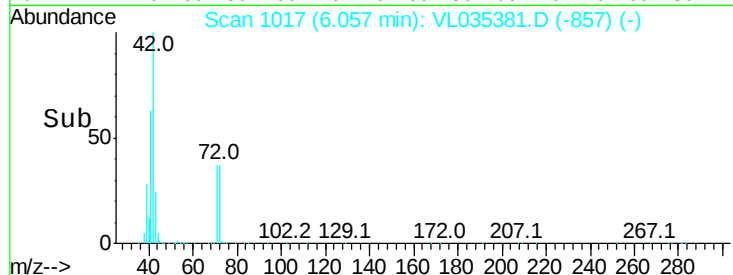
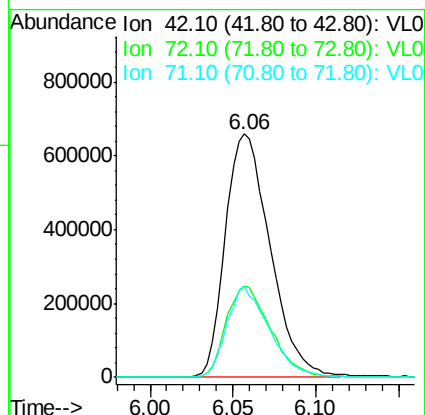
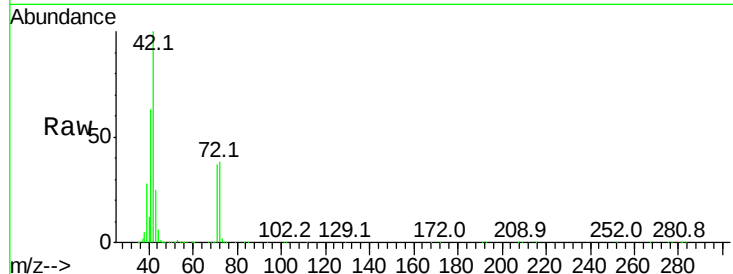




#41
Tetrahydrofuran
Concen: 15.515 ppbv
RT: 6.06 min Scan# 1017
Delta R.T. 0.02 min
Lab File: VL035381.D
Acq: 12 Aug 2020 11:57

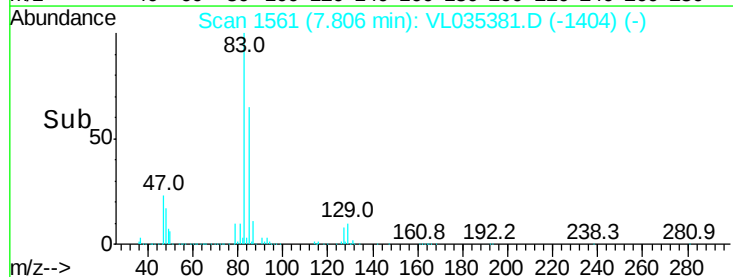
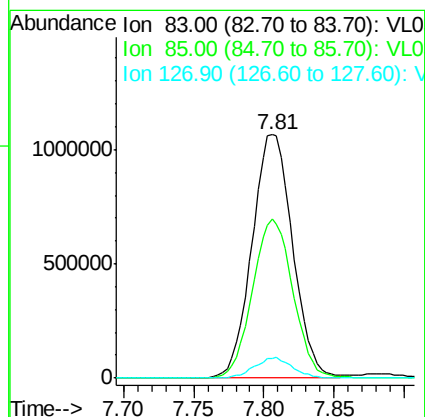
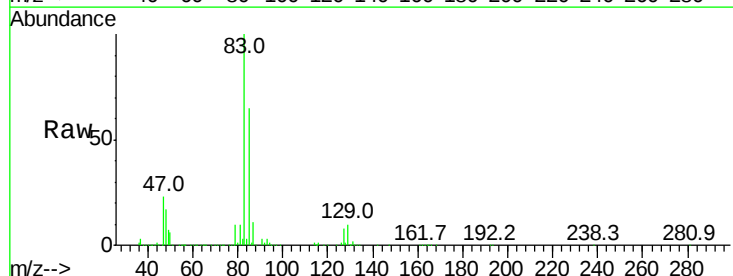
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

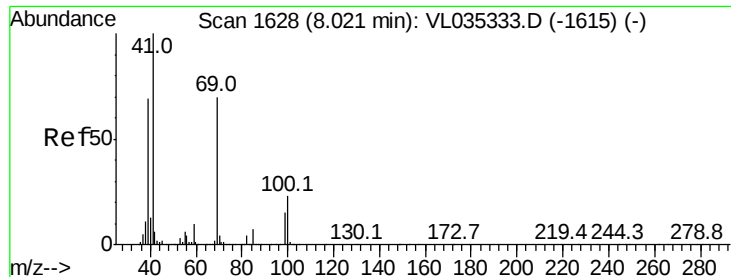
Tgt Ion: 42 Resp: 1234652
Ion Ratio Lower Upper
42 100
72 37.7 33.6 50.4
71 35.7 33.1 49.7



#42
Bromodichloromethane
Concen: 10.291 ppbv
RT: 7.81 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VL035381.D
Acq: 12 Aug 2020 11:57

Tgt Ion: 83 Resp: 2147119
Ion Ratio Lower Upper
83 100
85 65.3 53.1 79.7
127 7.9 6.8 10.2





#43

Methyl Methacrylate

Concen: 13.302 ppbv

RT: 8.03 min Scan# 1631

Delta R.T. 0.01 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

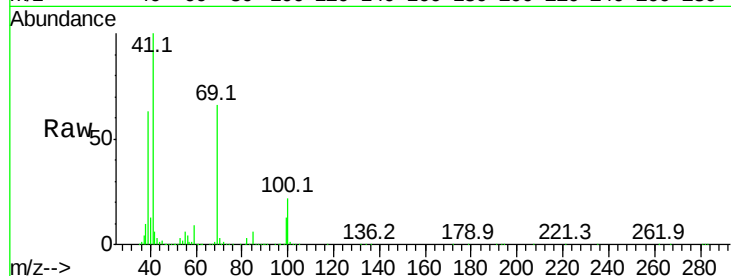
Tgt Ion: 69 Resp: 1244540

Ion Ratio Lower Upper

69 100

41 154.3 115.8 173.6

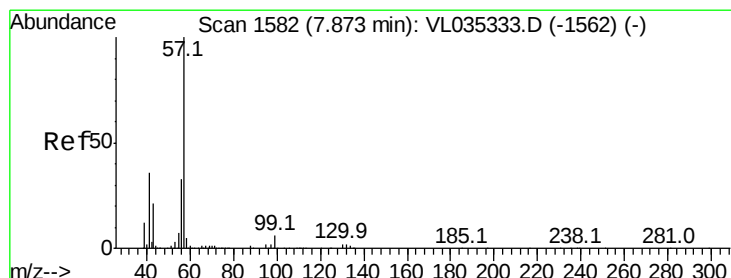
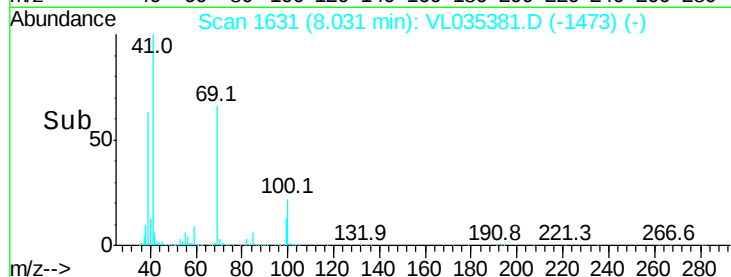
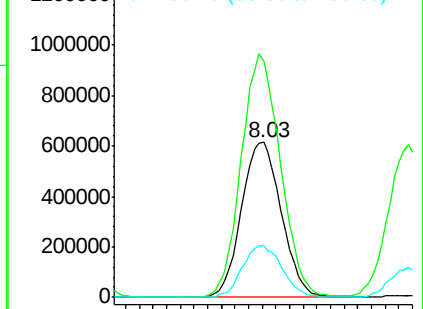
100 33.4 26.7 40.1



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 11.468 ppbv

RT: 7.88 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

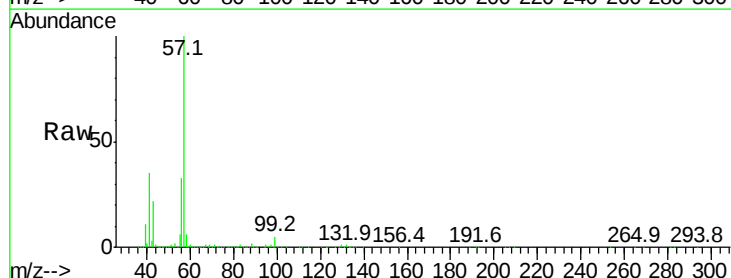
Tgt Ion: 57 Resp: 4530830

Ion Ratio Lower Upper

57 100

41 33.6 27.9 41.9

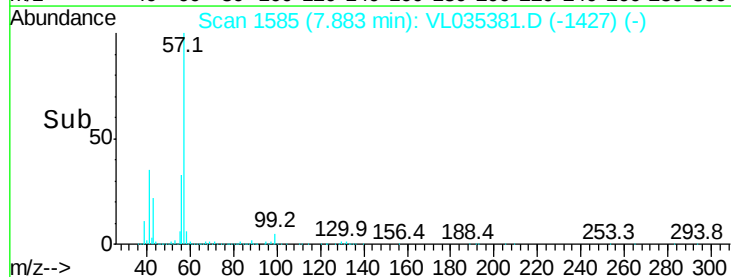
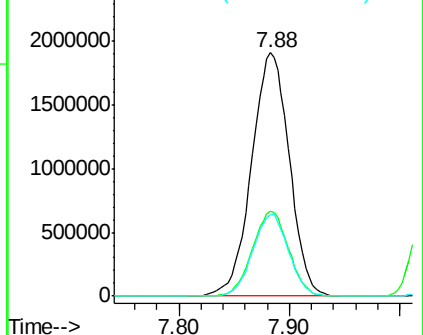
56 32.0 25.4 38.0

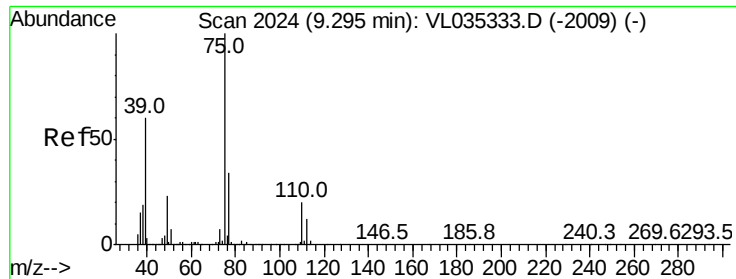


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

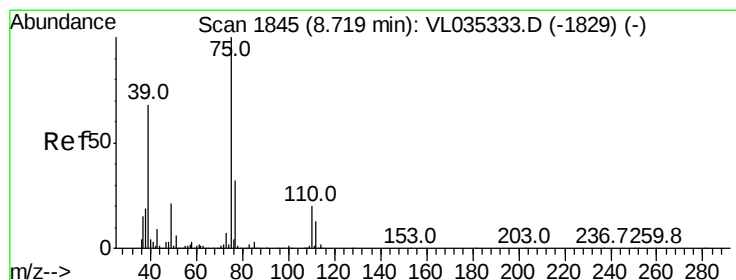
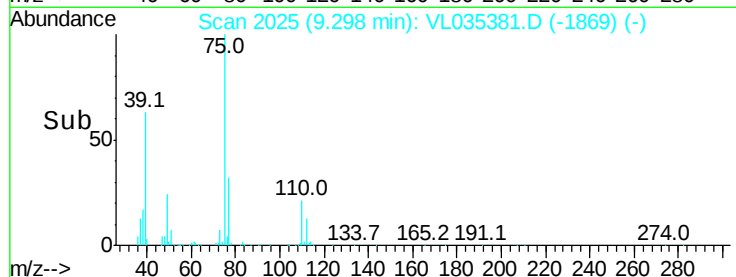
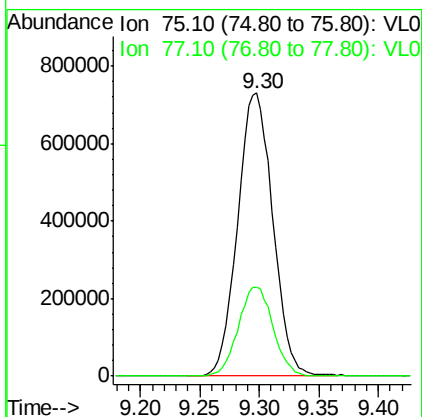
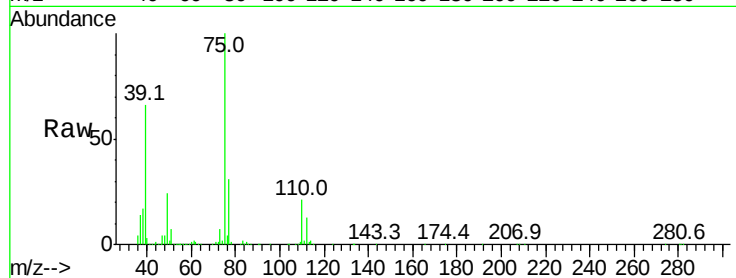




#45
 t-1,3-Dichloropropene
 Concen: 15.399 ppbv
 RT: 9.30 min Scan# 2025
 Delta R.T. 0.00 min
 Lab File: VL035381.D
 Acq: 12 Aug 2020 11:57

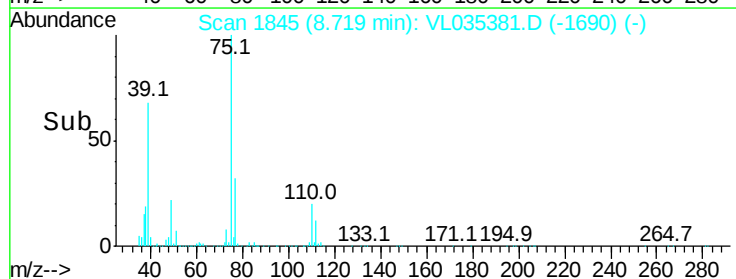
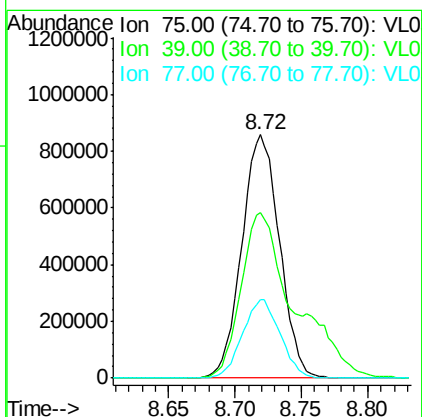
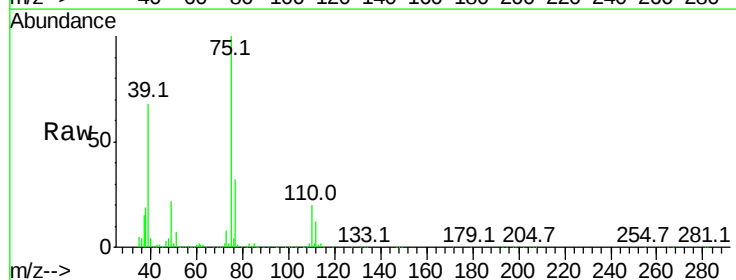
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

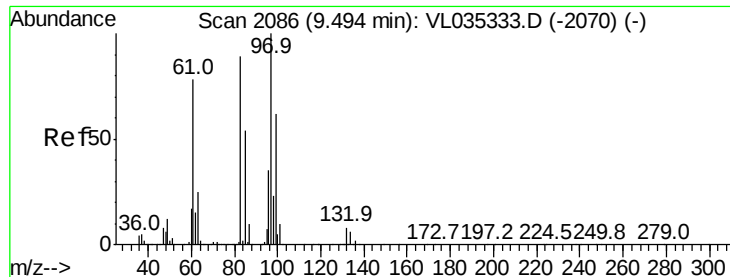
Tgt Ion: 75 Resp: 1494523
 Ion Ratio Lower Upper
 75 100
 77 31.5 27.0 40.6



#46
 cis-1,3-Dichloropropene
 Concen: 14.457 ppbv
 RT: 8.72 min Scan# 1845
 Delta R.T. -0.00 min
 Lab File: VL035381.D
 Acq: 12 Aug 2020 11:57

Tgt Ion: 75 Resp: 1694493
 Ion Ratio Lower Upper
 75 100
 39 67.7 54.2 81.2
 77 32.1 25.4 38.2



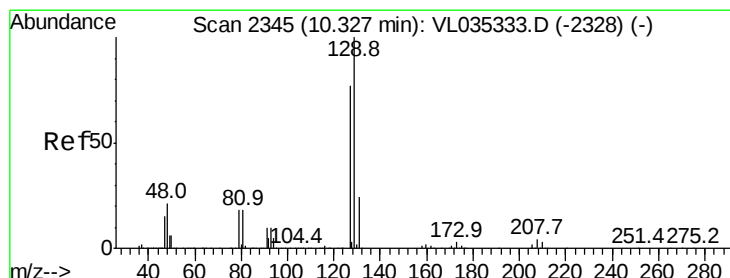
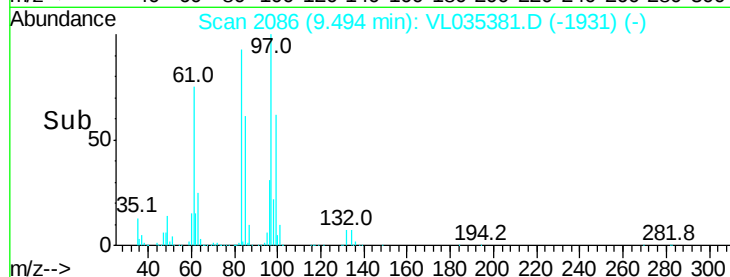
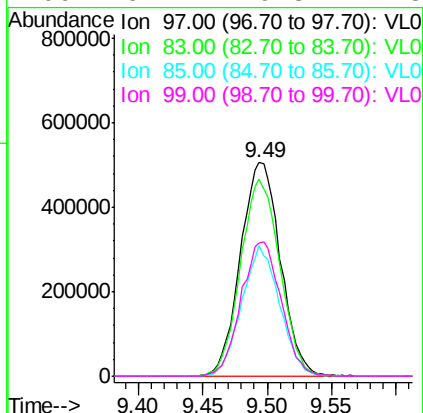
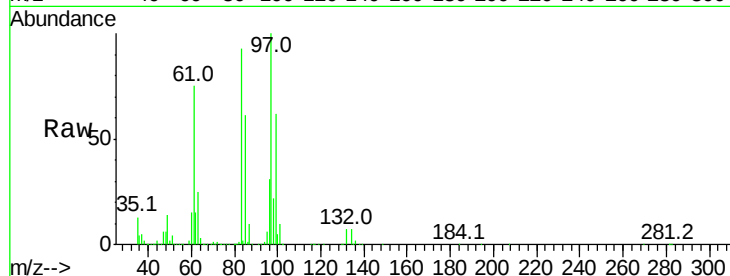


#47
 1,1,2-Trichloroethane
 Concen: 10.067 ppbv
 RT: 9.49 min Scan# 2086
 Delta R.T. -0.00 min
 Lab File: VL035381.D
 Acq: 12 Aug 2020 11:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 97 Resp: 1089730

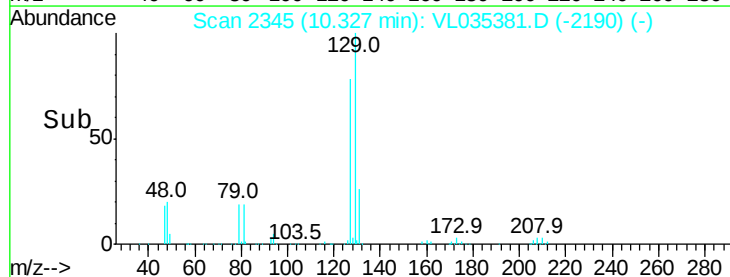
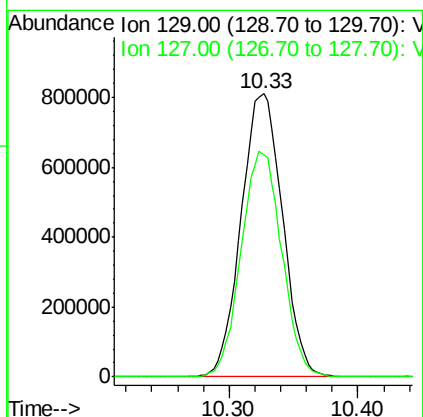
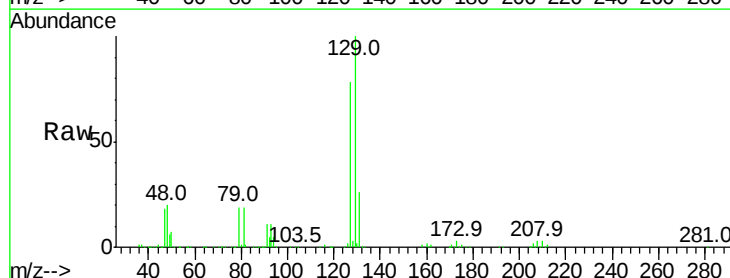
Ion	Ratio	Lower	Upper
97	100		
83	92.4	71.3	106.9
85	61.3	43.3	64.9
99	62.4	49.8	74.8

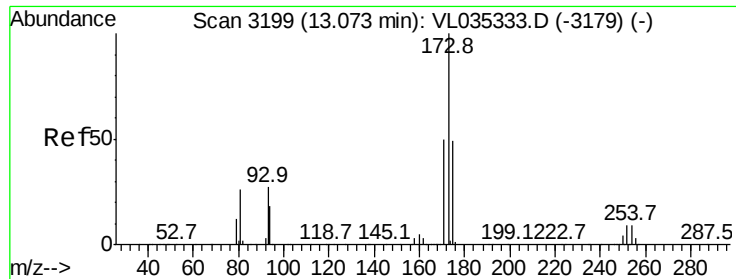


#48
 Dibromochloromethane
 Concen: 10.213 ppbv
 RT: 10.33 min Scan# 2345
 Delta R.T. -0.00 min
 Lab File: VL035381.D
 Acq: 12 Aug 2020 11:57

Tgt Ion: 129 Resp: 1810933

Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.1	117.2





#49

Bromoform

Concen: 9.609 ppbv

RT: 13.07 min Scan# 3197

Delta R.T. -0.01 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

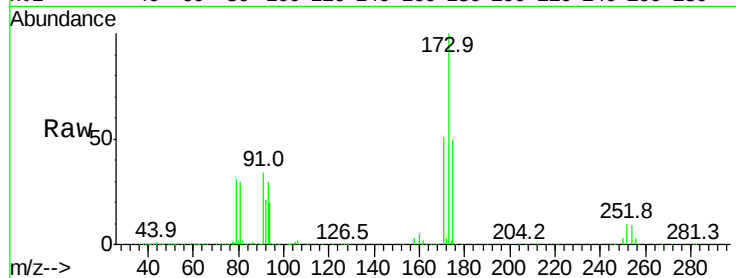
Tgt Ion:173 Resp: 1552600

Ion Ratio Lower Upper

173 100

175 49.9 39.3 58.9

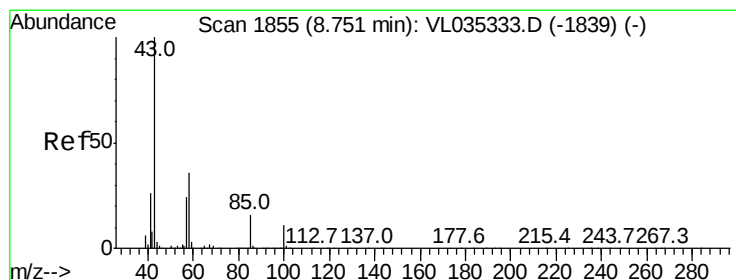
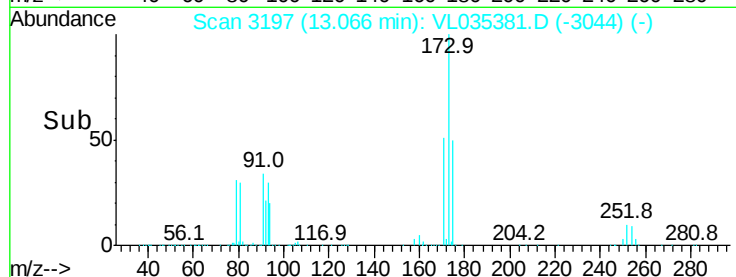
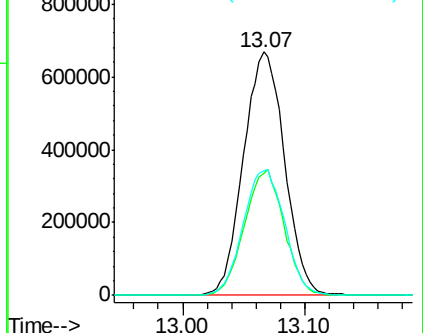
171 52.3 41.2 61.8



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: 12.226 ppbv

RT: 8.76 min Scan# 1857

Delta R.T. 0.01 min

Lab File: VL035381.D

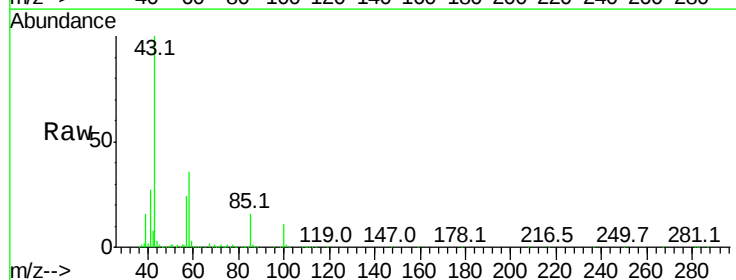
Acq: 12 Aug 2020 11:57

Tgt Ion: 43 Resp: 3026911

Ion Ratio Lower Upper

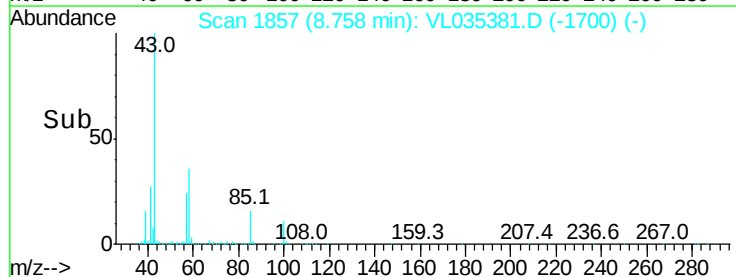
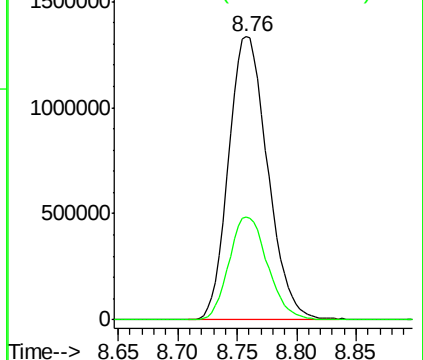
43 100

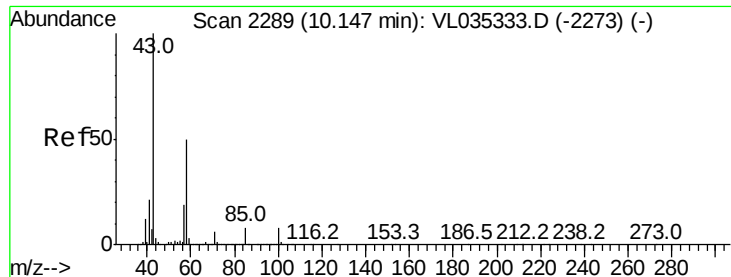
58 36.3 29.2 43.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 13.391 ppbv

RT: 10.15 min Scan# 2291

Delta R.T. 0.01 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

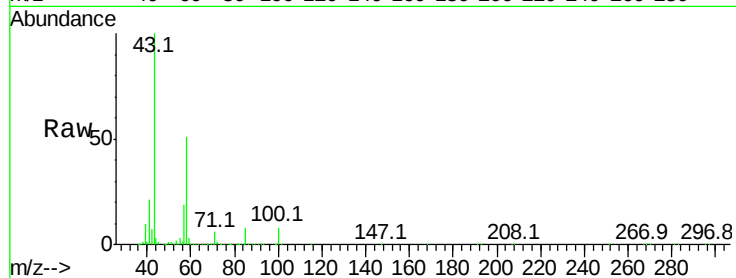
Tgt Ion: 43 Resp: 2599102

Ion Ratio Lower Upper

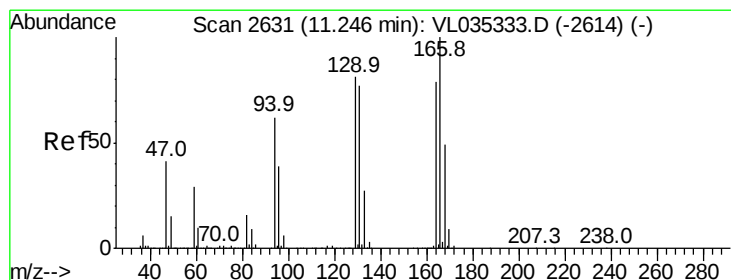
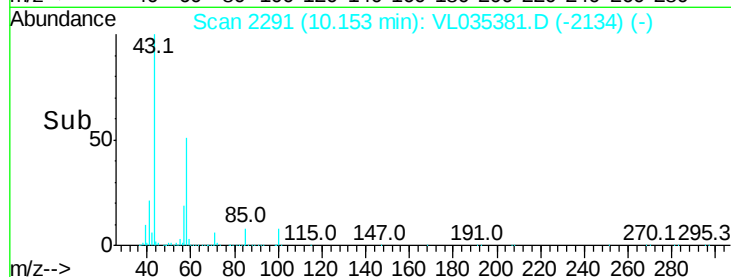
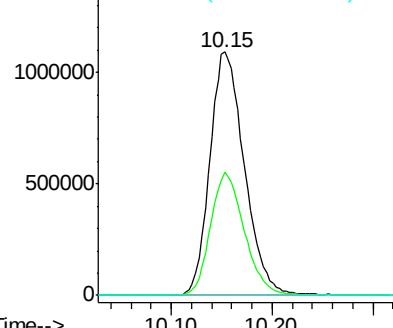
43 100

58 49.4 39.4 59.2

98 0.1 0.2 0.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.177 ppbv

RT: 11.25 min Scan# 2631

Delta R.T. -0.00 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Tgt Ion: 164 Resp: 897270

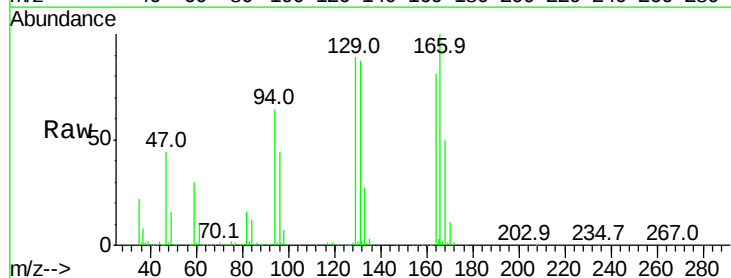
Ion Ratio Lower Upper

164 100

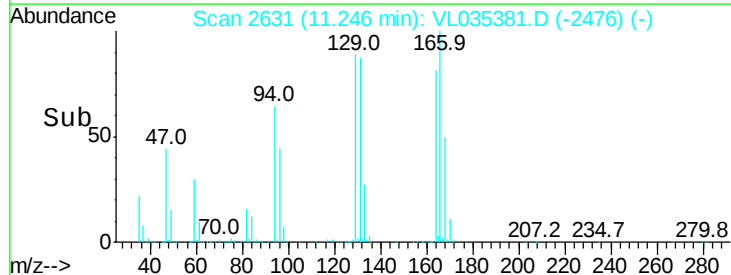
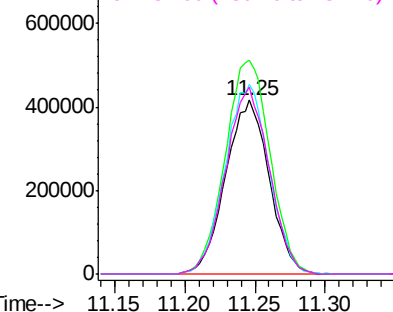
166 122.7 101.4 152.0

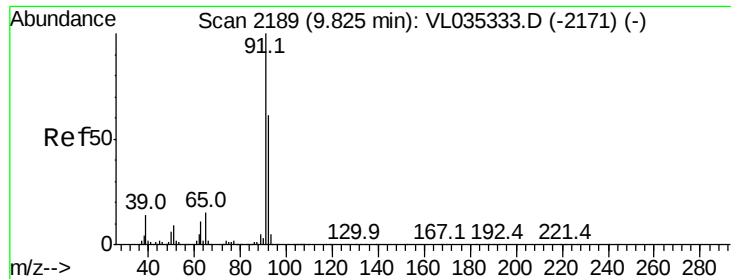
129 109.1 82.1 123.1

131 107.1 78.4 117.6



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 13.012 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.00 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

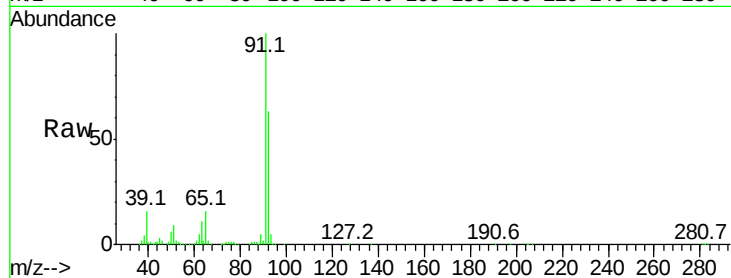
VSTDICCC010

Tgt Ion: 91 Resp: 3147736

Ion Ratio Lower Upper

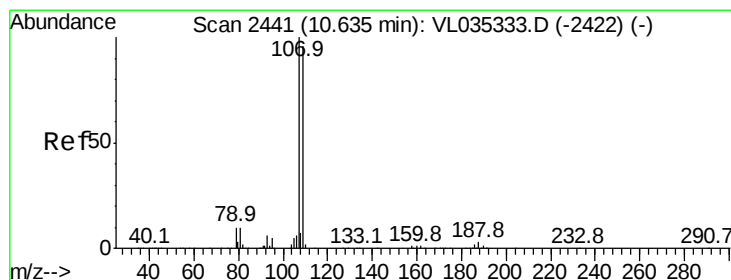
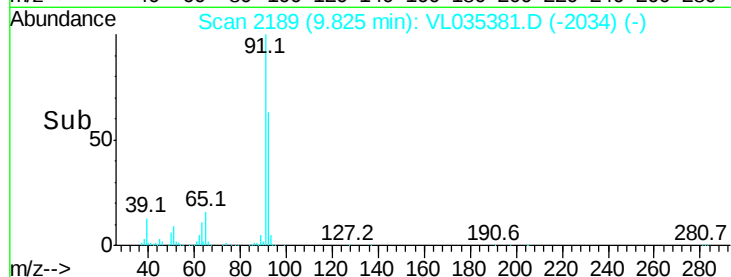
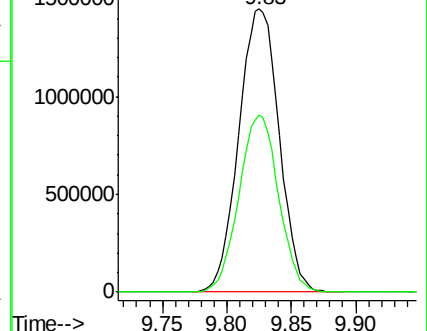
91 100

92 61.4 48.5 72.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.914 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. -0.00 min

Lab File: VL035381.D

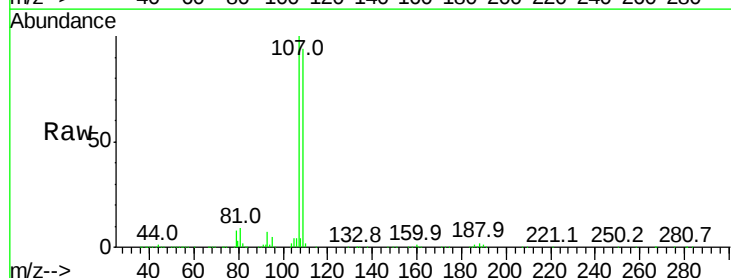
Acq: 12 Aug 2020 11:57

Tgt Ion: 107 Resp: 1694945

Ion Ratio Lower Upper

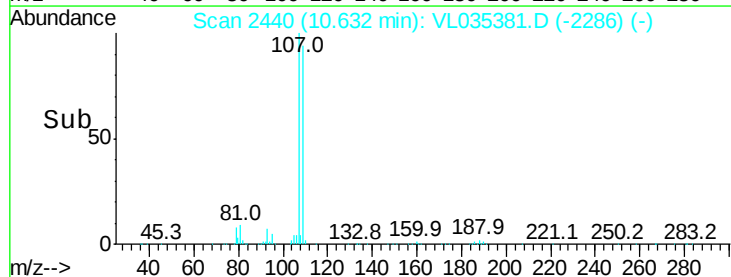
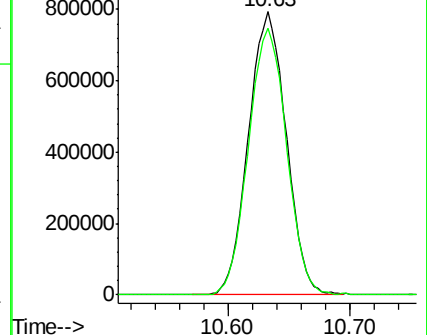
107 100

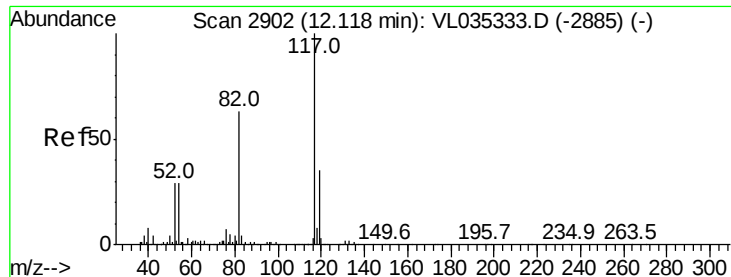
109 94.0 76.8 115.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

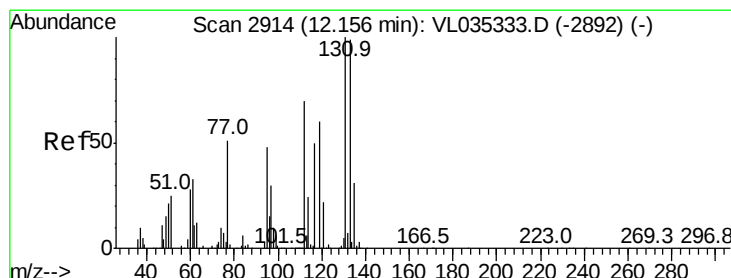
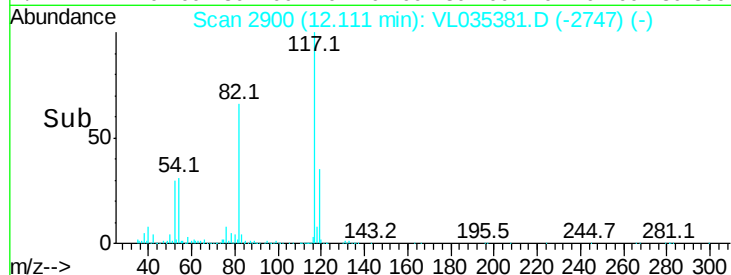
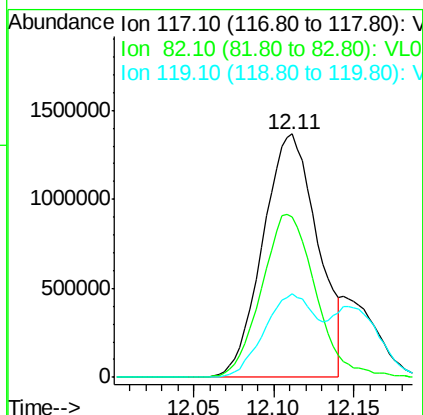
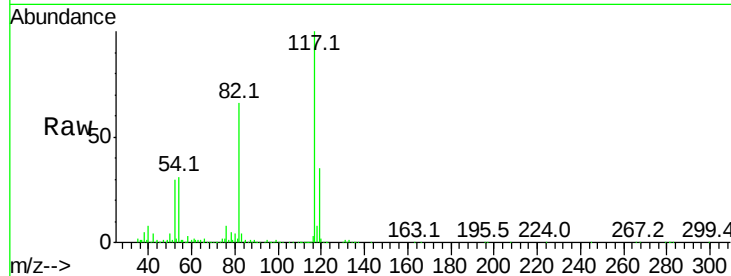




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. -0.01 min
Lab File: VL035381.D
Acq: 12 Aug 2020 11:57

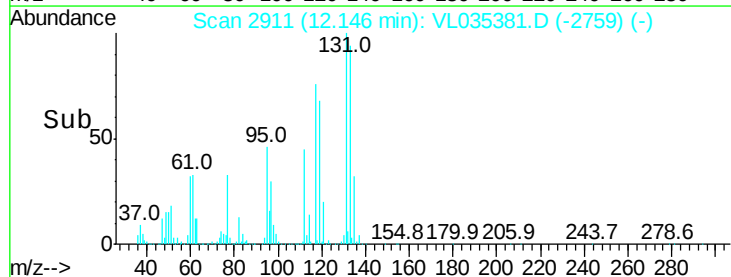
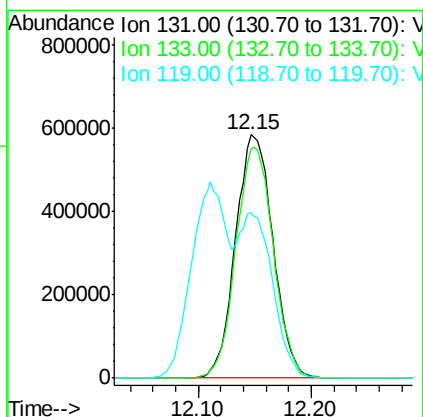
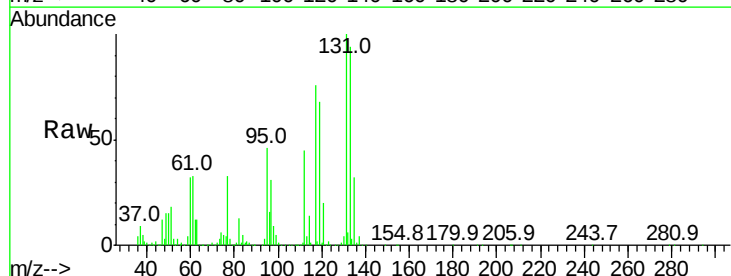
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

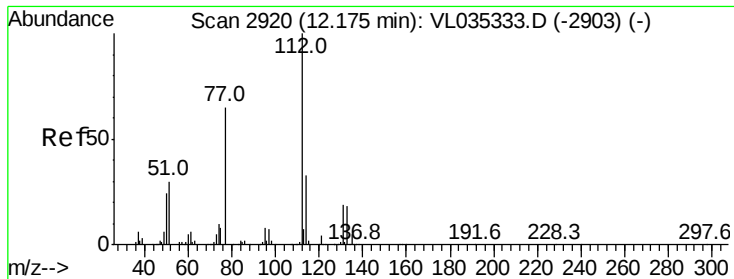
Tgt Ion:117 Resp: 3249004
Ion Ratio Lower Upper
117 100
82 66.3 51.0 76.4
119 32.1 24.7 37.1



#56
1,1,1,2-Tetrachloroethane
Concen: 8.770 ppbv
RT: 12.15 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL035381.D
Acq: 12 Aug 2020 11:57

Tgt Ion:131 Resp: 1344960
Ion Ratio Lower Upper
131 100
133 95.1 75.4 113.2
119 58.7 43.7 65.5





#57

Chlorobenzene

Concen: 9.425 ppbv

RT: 12.17 min Scan# 2918

Delta R.T. -0.01 min

Lab File: VL035381.D

Acq: 12 Aug 2020 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

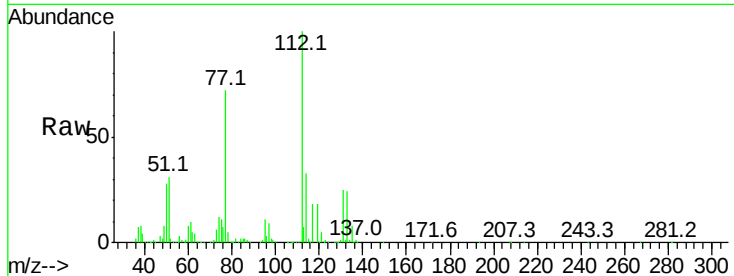
Tgt Ion:112 Resp: 2305786

Ion Ratio Lower Upper

112 100

77 72.0 53.3 79.9

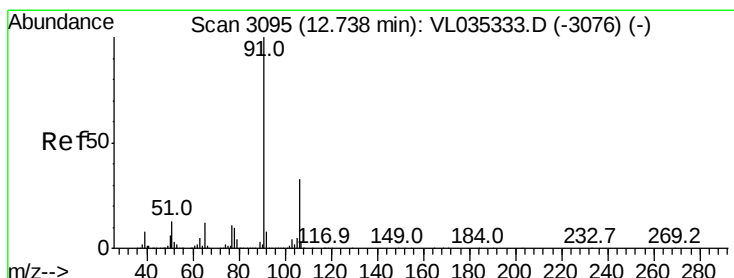
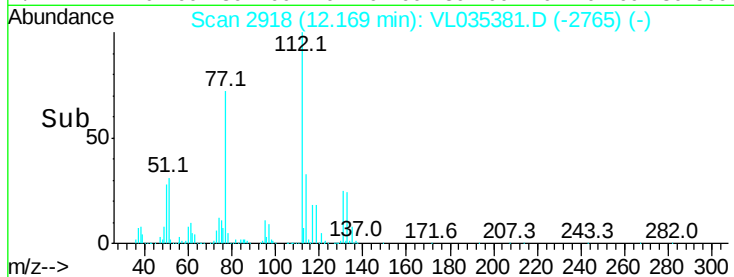
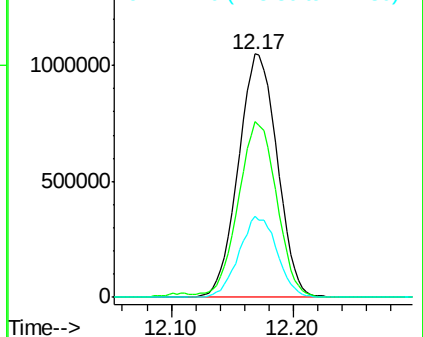
114 33.3 29.8 36.4



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 12.589 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. -0.00 min

Lab File: VL035381.D

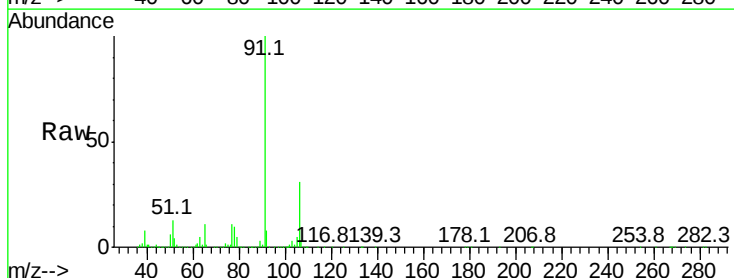
Acq: 12 Aug 2020 11:57

Tgt Ion: 91 Resp: 4255921

Ion Ratio Lower Upper

91 100

106 31.4 26.8 40.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

