

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082720\
 Data File : VL035508.D
 Acq On : 27 Aug 2020 4:06
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Quant Time: Aug 27 05:36:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 05:32:47 2020
 QLast Update : Thu Aug 27 05:32:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1089304	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4709132	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4729757	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3430107	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	123122	0.618	ppbv	97
3) Chlorodifluoromethane	2.99	51	62073	0.505	ppbv	97
4) Chloromethane	3.14	50	32720	0.511	ppbv	91
5) Vinyl Chloride	3.26	62	37235	0.495	ppbv	94
6) Bromomethane	3.48	94	33743	0.489	ppbv	92
7) Chloroethane	3.56	64	14211	0.494	ppbv	90
8) Dichlorotetrafluoroethane	3.19	85	124739	0.527	ppbv	100
9) Propene	3.02	41	24197	0.506	ppbv	99
10) Heptane	8.15	43	59773	0.469	ppbv	96
11) Trichlorofluoromethane	3.96	101	143092	0.498	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.49	101	108691	0.507	ppbv	100
13) Ethanol	3.62	45	3267	0.243	ppbv #	37
14) Bromoethene	3.74	108	42352	0.454	ppbv	95
15) Acetone	3.87	43	66121	0.566	ppbv	91
16) 1,3-Butadiene	3.33	39	21595	0.465	ppbv	99
17) tert-Butyl alcohol	4.31	59	71335	0.480	ppbv	100
18) 1,1-Dichloroethene	4.29	96	44180	0.465	ppbv	96
19) Isopropyl Alcohol	3.99	45	35221	0.466	ppbv #	93
20) Methylene Chloride	4.35	84	52617	0.422	ppbv	96
21) Allyl Chloride	4.42	41	26094	0.443	ppbv	97
22) trans-1,2-Dichloroethene	4.89	96	48366	0.482	ppbv	92
23) Vinyl Acetate	5.09	43	82949	0.539	ppbv #	97
24) 1,1-Dichloroethane	5.02	63	80777	0.501	ppbv	99
25) Ethyl Acetate	5.70	43	44003	0.199	ppbv #	61
26) Hexane	5.70	57	59885	0.445	ppbv	95
27) Carbon Disulfide	4.56	76	71352	0.399	ppbv	96
28) Methyl tert-Butyl Ether	5.06	73	97548	0.447	ppbv	99
29) Chloroform	5.76	83	124862	0.489	ppbv	93
30) Cyclohexane	7.15	84	56265	0.417	ppbv	95
31) cis-1,2-Dichloroethene	5.56	61	57460	0.452	ppbv	96
32) 1,1,1-Trichloroethane	6.53	97	108211	0.465	ppbv	99
34) 2-Butanone	5.27	43	66958	0.481	ppbv	98
35) Carbon Tetrachloride	7.04	117	107183	0.468	ppbv	98
36) Benzene	6.91	78	146814	0.474	ppbv	95
37) 1,2-Dichloroethane	6.32	62	74141	0.505	ppbv	98
38) Trichloroethene	7.85	130	79394	0.464	ppbv	97
39) 1,2-Dichloropropane	7.63	63	50839	0.490	ppbv	98
40) 1,4-Dioxane	7.89	88	9838	0.193	ppbv #	1
41) Tetrahydrofuran	6.09	42	32849	0.435	ppbv	97
42) Bromodichloromethane	7.81	83	106238	0.443	ppbv #	91
43) Methyl Methacrylate	8.04	69	49791	0.415	ppbv	93

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 05:32:47 2020
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	197189	0.486	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	40559	0.331	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	58027	0.382	ppbv	96
47) 1,1,2-Trichloroethane	9.49	97	75143	0.485	ppbv	94
48) Dibromochloromethane	10.33	129	98064	0.398	ppbv	98
49) Bromoform	13.07	173	78375	0.344	ppbv	100
50) 4-Methyl-2-Pentanone	8.78	43	91663	0.457	ppbv	97
51) 2-Hexanone	10.18	43	69698	0.424	ppbv #	94
52) Tetrachloroethene	11.25	164	45385	0.252	ppbv	98
53) Toluene	9.83	91	174869	0.446	ppbv	97
54) 1,2-Dibromoethane	10.64	107	114977	0.467	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.16	131	92653	0.469	ppbv #	1
57) Chlorobenzene	12.17	112	192050	0.546	ppbv #	92
58) Ethyl Benzene	12.74	91	234902	0.469	ppbv	94
59) m/p-Xylene	13.02	91	211094	0.496	ppbv #	38
60) o-Xylene	13.72	91	202527	0.483	ppbv	100
61) Styrene	13.55	104	134247	0.416	ppbv	99
62) Isopropylbenzene	14.70	105	341202	0.503	ppbv	93
63) 1,1,2,2-Tetrachloroethane	13.71	83	156970	0.512	ppbv	99
64) n-propylbenzene	15.60	120	96635	0.468	ppbv #	67
65) tert-Butylbenzene	16.78	119	294548	0.457	ppbv	97
66) Benzyl Chloride	17.02	91	41032	0.262	ppbv	96
67) sec-Butylbenzene	17.33	105	407407	0.476	ppbv	93
69) p-Isopropyltoluene	17.69	119	352986	0.473	ppbv	92
70) n-Butylbenzene	18.59	91	341077	0.476	ppbv	93
71) 2-Chlorotoluene	15.49	91	233276	0.475	ppbv	96
72) 4-Ethyltoluene	15.88	105	244848	0.458	ppbv	96
73) 1,3,5-Trimethylbenzene	16.03	105	225026	0.455	ppbv	87
74) 1,2,4-Trimethylbenzene	16.80	105	268386	0.494	ppbv	95
75) 1,3-Dichlorobenzene	17.03	146	206207	0.507	ppbv	98
76) 1,4-Dichlorobenzene	17.18	146	197353	0.486	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	196660	0.491	ppbv	98
78) Hexachloro-1,3-Butadiene	23.42	225	121547	0.442	ppbv	98
79) Naphthalene	22.26	128	254034	0.376	ppbv #	91
80) Naphthalene, 2-methyl-	25.01	142	61673	0.232	ppbv	98
81) 1,2,4-Trichlorobenzene	21.98	180	165988	0.418	ppbv	98

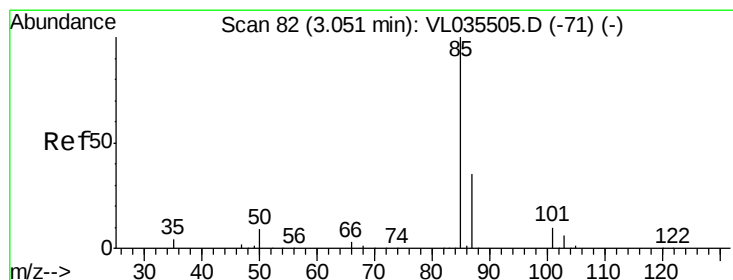
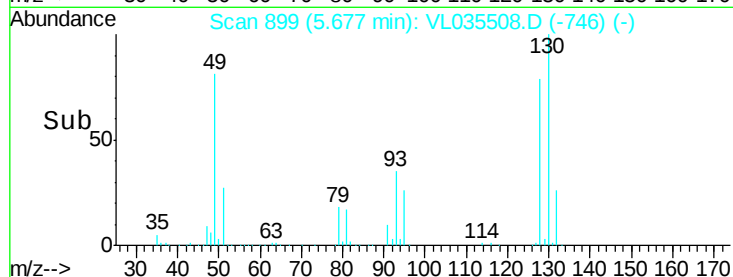
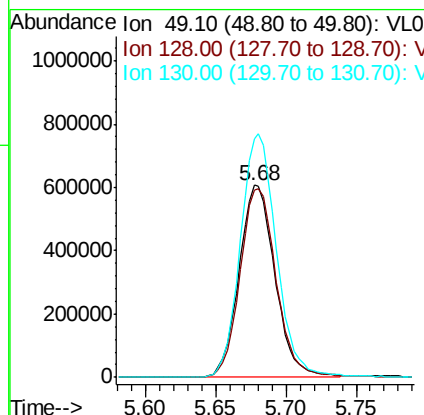
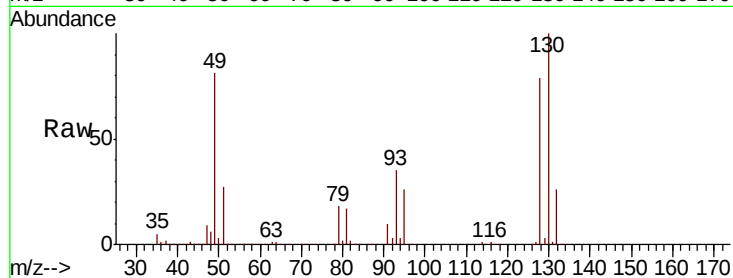
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VL035508.D
 Acq: 27 Aug 2020 4:06

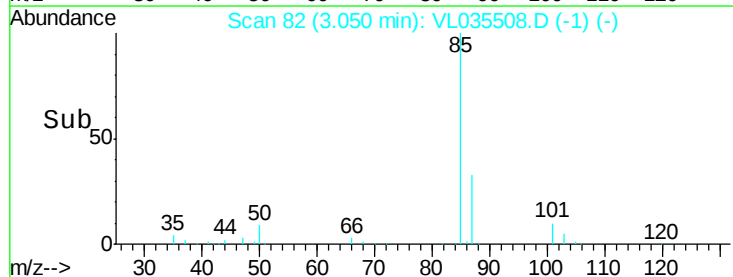
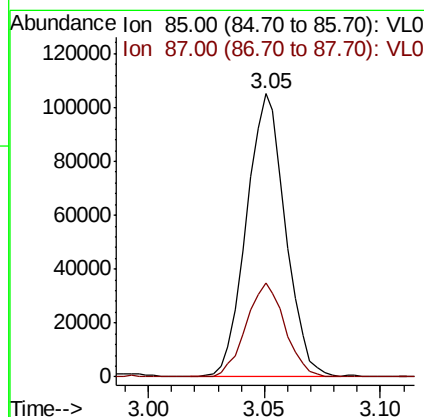
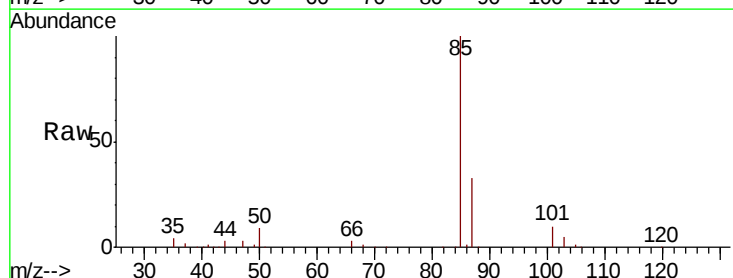
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

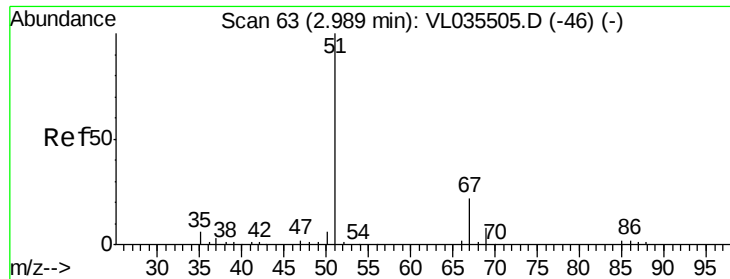
Tot Ion: 49 Resp: 1089304
 Ion Ratio Lower Upper
 49 100
 128 99.3 50.0 150.1
 130 127.8 64.4 193.2



#2
 Dichlorodifluoromethane
 Concen: 0.618 ppbv
 RT: 3.05 min Scan# 82
 Delta R.T. -0.00 min
 Lab File: VL035508.D
 Acq: 27 Aug 2020 4:06

Tgt Ion: 85 Resp: 123122
 Ion Ratio Lower Upper
 85 100
 87 33.3 28.0 42.0





#3

Chlorodifluoromethane

Concen: 0.505 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

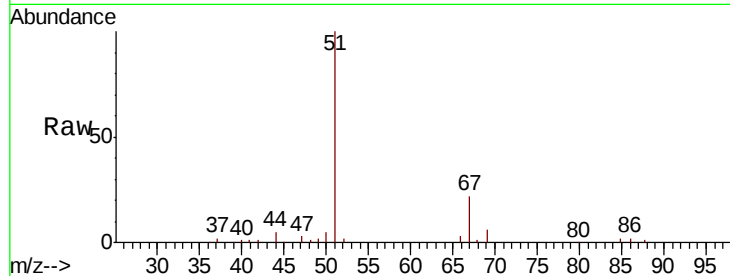
VSTDIC0.5

Tot Ion: 51 Resp: 62073

Ion Ratio Lower Upper

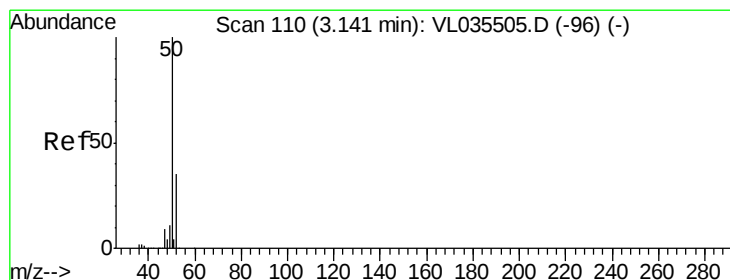
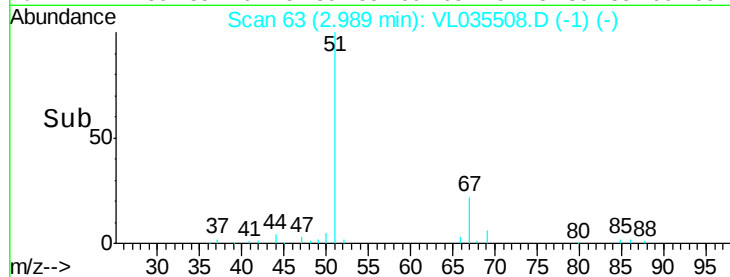
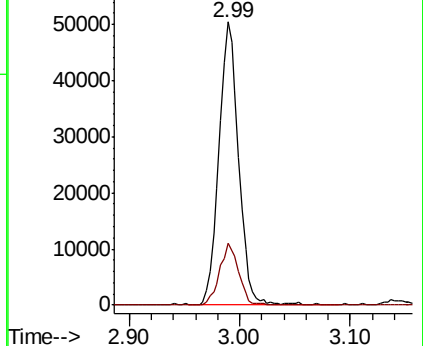
51 100

67 21.0 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.511 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL035508.D

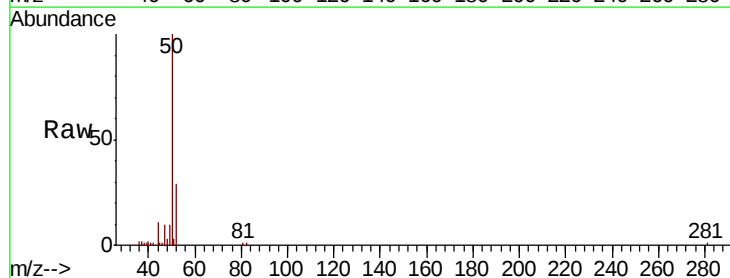
Acq: 27 Aug 2020 4:06

Tgt Ion: 50 Resp: 32720

Ion Ratio Lower Upper

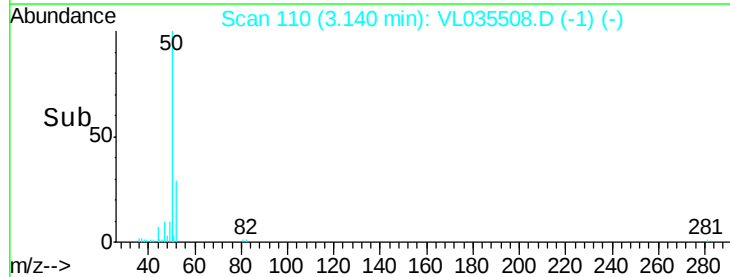
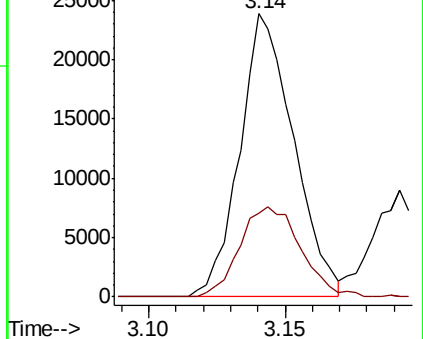
50 100

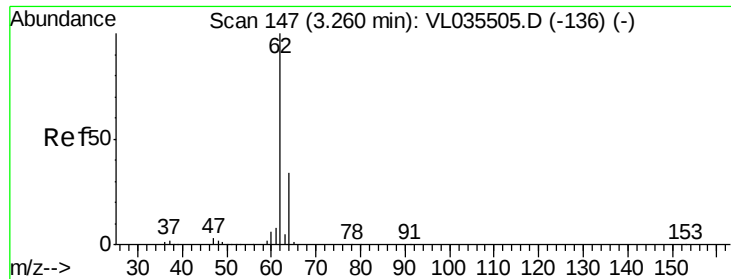
52 29.4 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.495 ppbv

RT: 3.26 min Scan# 147

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

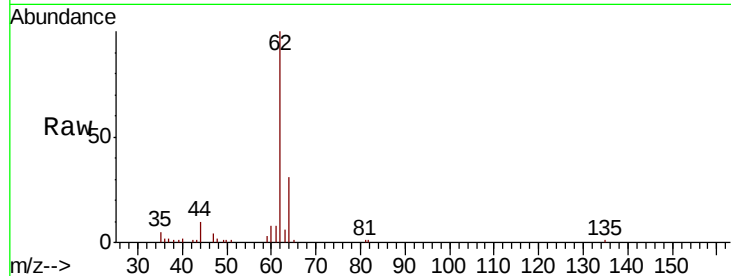
VSTDIC0.5

Tot Ion: 62 Resp: 37235

Ion Ratio Lower Upper

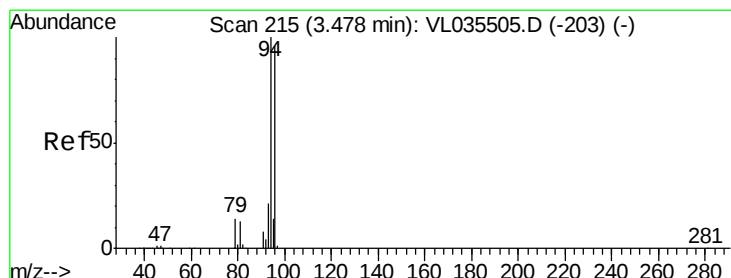
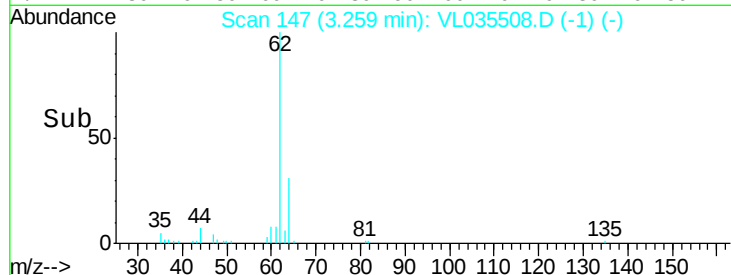
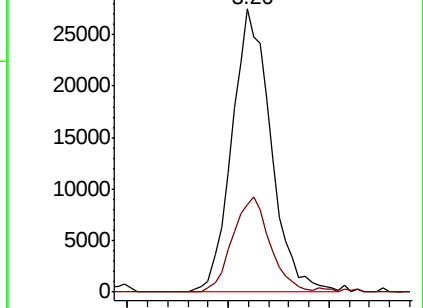
62 100

64 30.7 27.4 41.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.489 ppbv

RT: 3.48 min Scan# 215

Delta R.T. -0.00 min

Lab File: VL035508.D

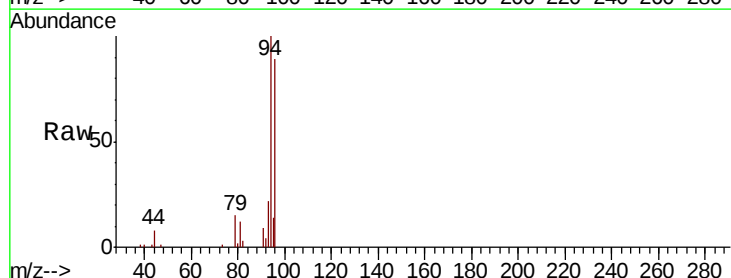
Acq: 27 Aug 2020 4:06

Tgt Ion: 94 Resp: 33743

Ion Ratio Lower Upper

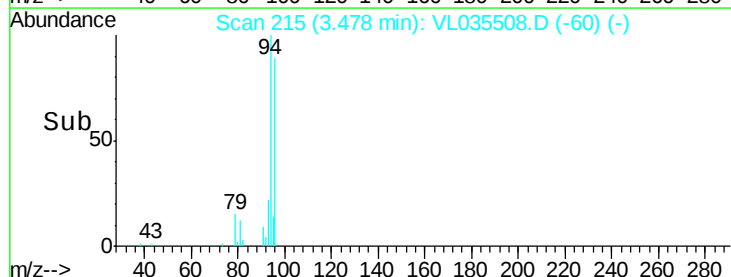
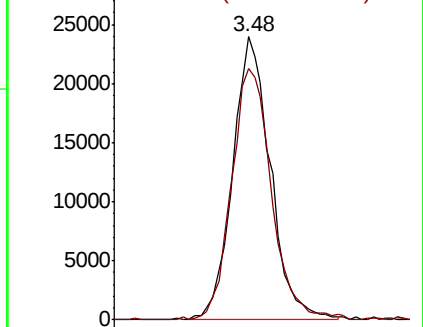
94 100

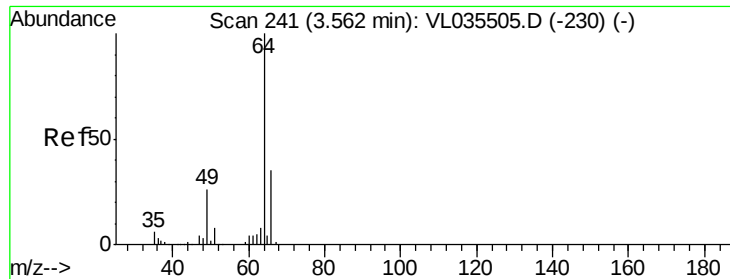
96 88.8 77.1 115.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.494 ppbv

RT: 3.56 min Scan# 242

Delta R.T. 0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

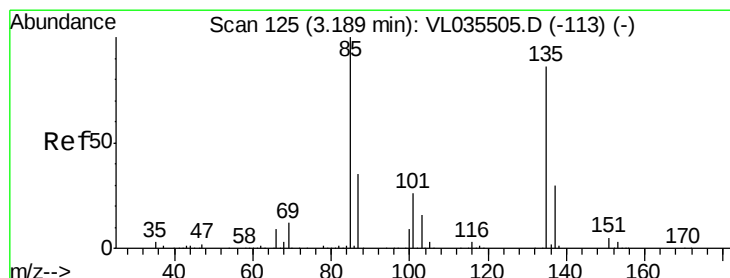
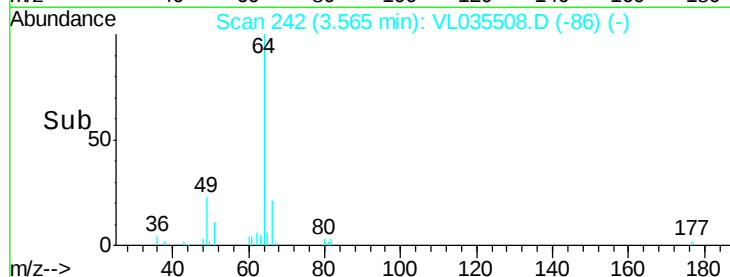
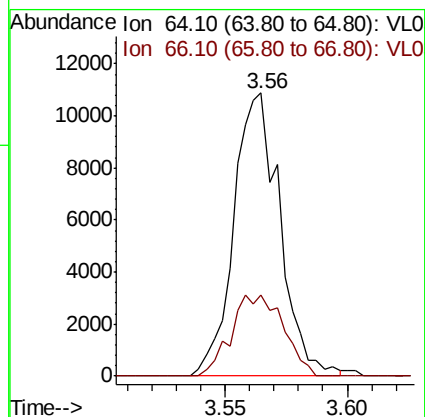
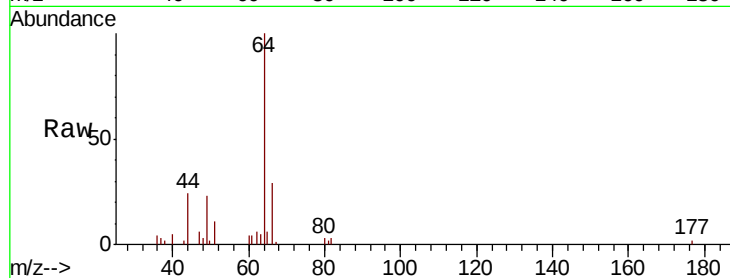
VSTDIC0.5

Tot Ion: 64 Resp: 14211

Ion Ratio Lower Upper

64 100

66 28.7 27.7 41.5



#8

Dichlorotetrafluoroethane

Concen: 0.527 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.00 min

Lab File: VL035508.D

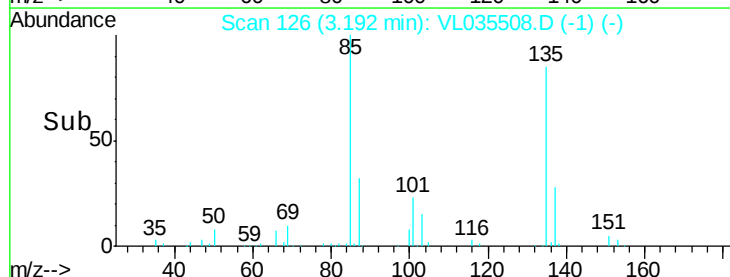
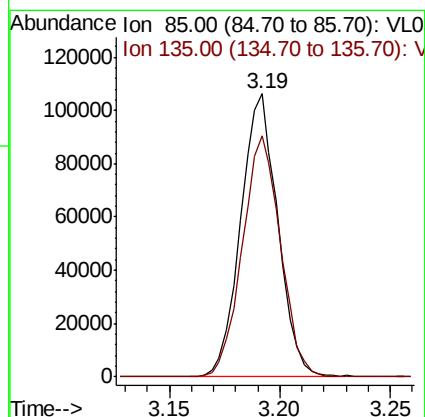
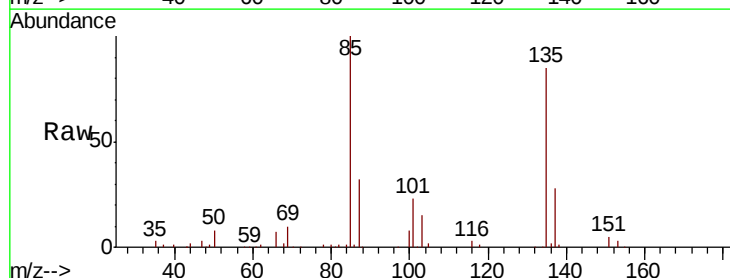
Acq: 27 Aug 2020 4:06

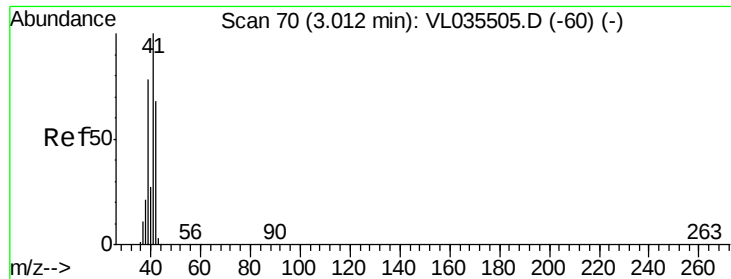
Tgt Ion: 85 Resp: 124739

Ion Ratio Lower Upper

85 100

135 87.6 70.4 105.6





#9

Propene

Concen: 0.506 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

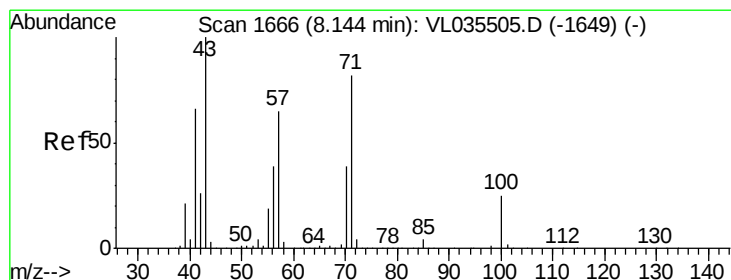
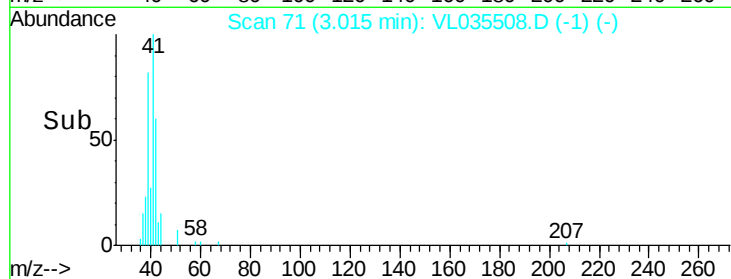
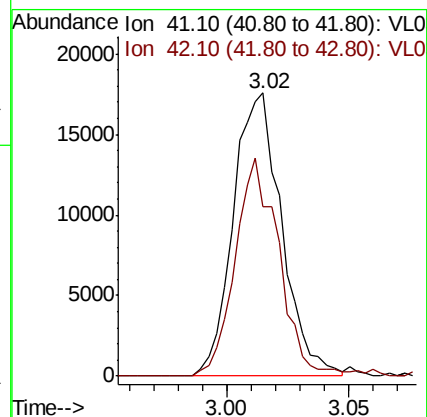
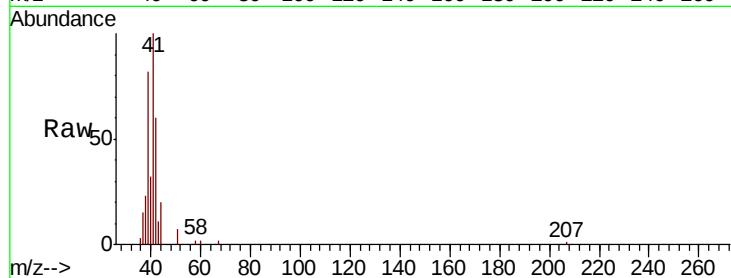
VSTDIC0.5

Tot Ion: 41 Resp: 24197

Ion Ratio Lower Upper

41 100

42 71.1 56.3 84.5



#10

Heptane

Concen: 0.469 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. 0.00 min

Lab File: VL035508.D

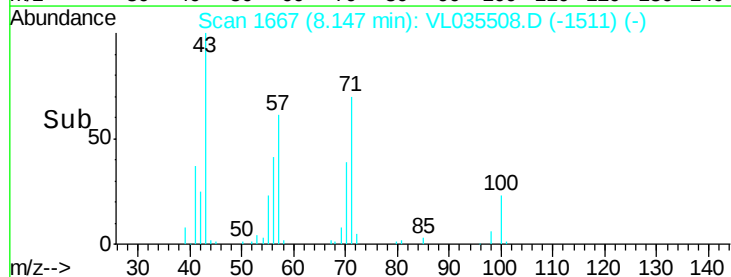
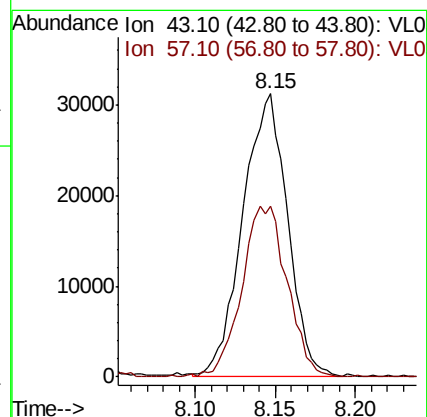
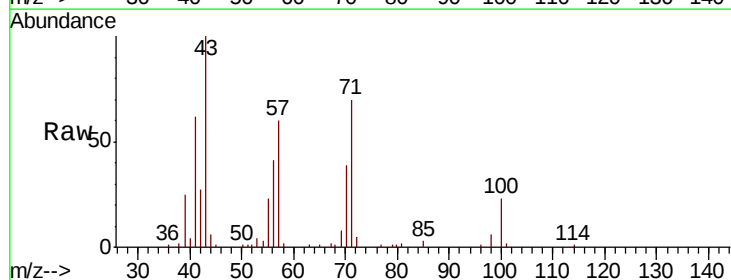
Acq: 27 Aug 2020 4:06

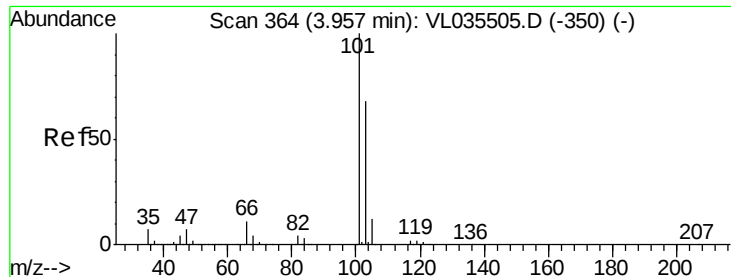
Tgt Ion: 43 Resp: 59773

Ion Ratio Lower Upper

43 100

57 61.0 51.4 77.0

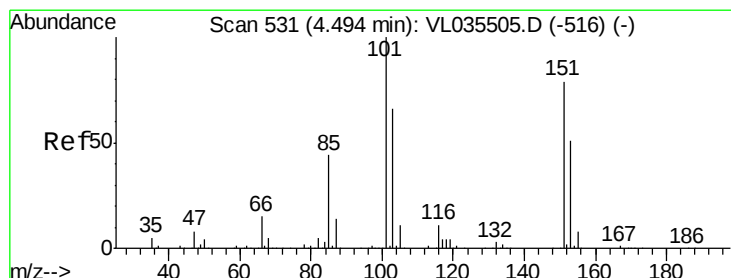
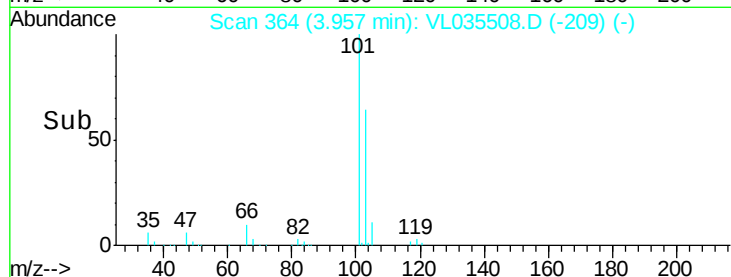
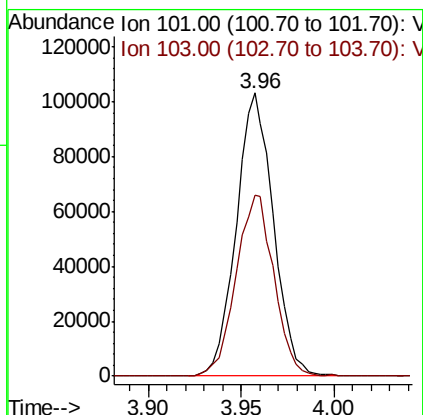
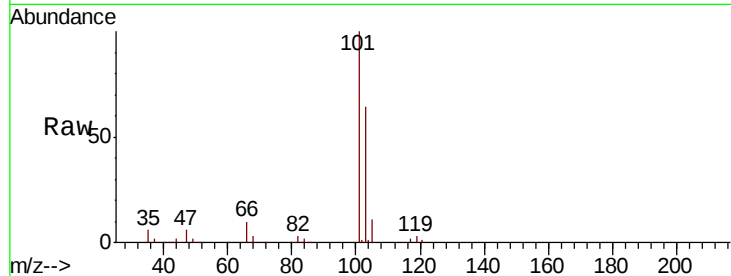




#11
 Trichlorofluoromethane
 Concen: 0.498 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. -0.00 min
 Lab File: VL035508.D
 Acq: 27 Aug 2020 4:06

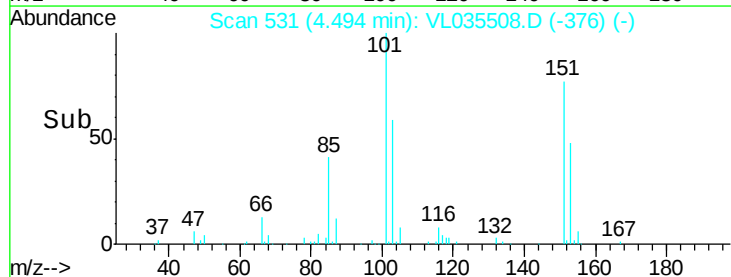
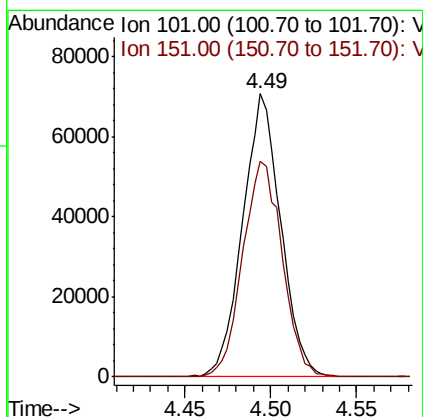
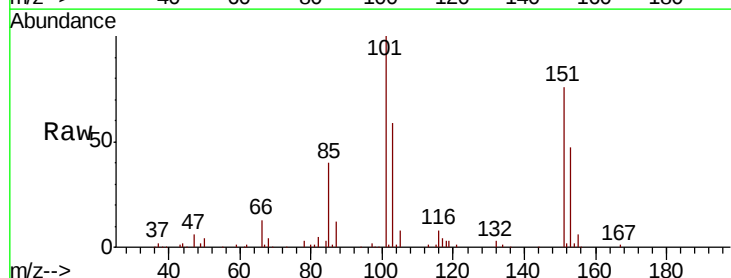
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

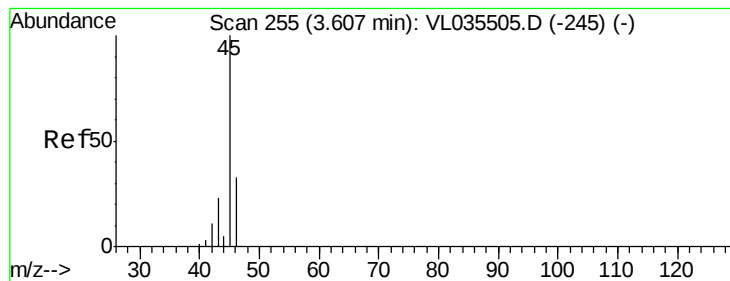
Tot Ion:101 Resp: 143092
 Ion Ratio Lower Upper
 101 100
 103 63.9 54.5 81.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.507 ppbv
 RT: 4.49 min Scan# 531
 Delta R.T. -0.00 min
 Lab File: VL035508.D
 Acq: 27 Aug 2020 4:06

Tgt Ion:101 Resp: 108691
 Ion Ratio Lower Upper
 101 100
 151 79.0 63.5 95.3





#13

Ethanol

Concen: 0.243 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

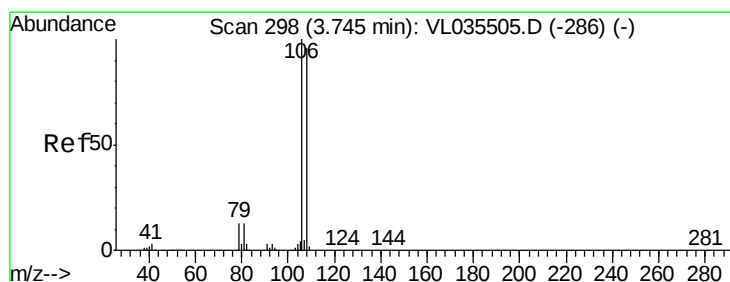
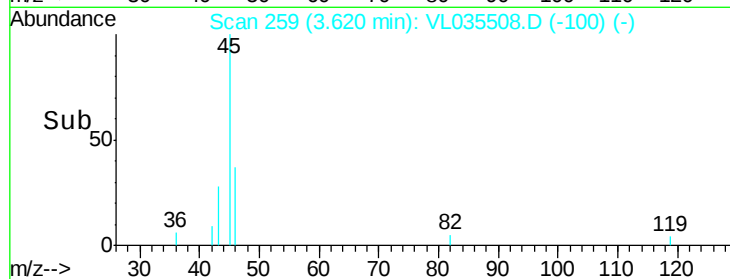
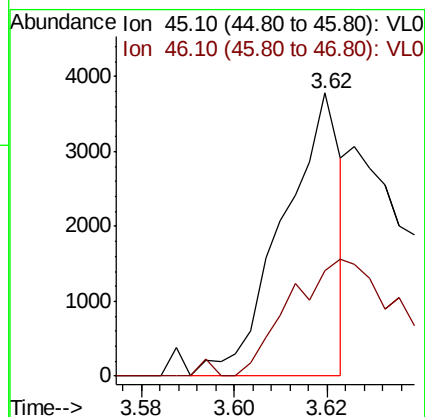
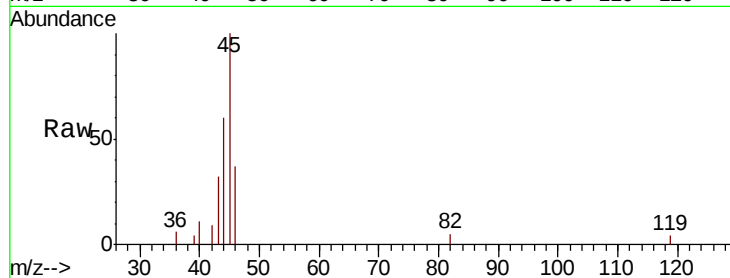
VSTDIC0.5

Tot Ion: 45 Resp: 3267

Ion Ratio Lower Upper

45 100

46 0.0 15.2 60.6#



#14

Bromoethene

Concen: 0.454 ppbv

RT: 3.74 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

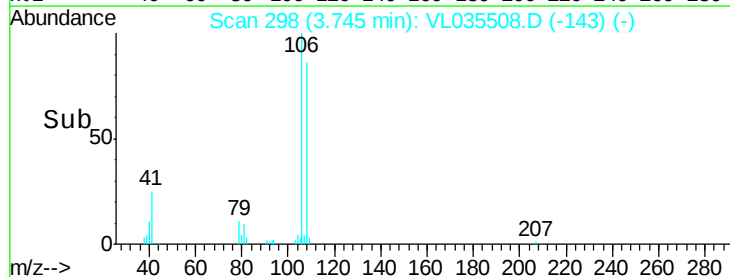
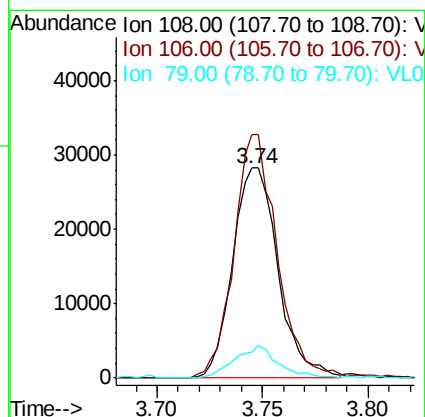
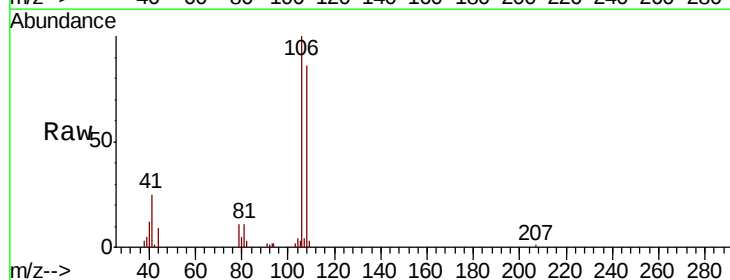
Tgt Ion: 108 Resp: 42352

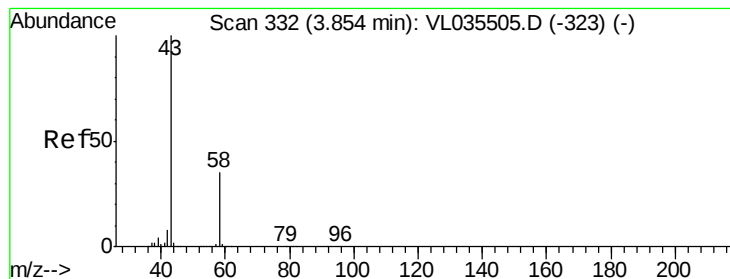
Ion Ratio Lower Upper

108 100

106 111.1 84.9 127.3

79 15.1 10.8 16.2





#15

Acetone

Concen: 0.566 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.02 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

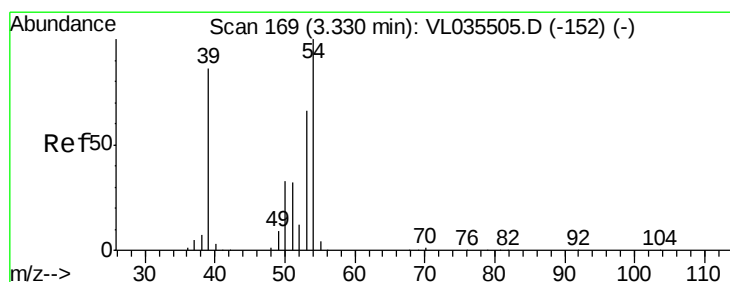
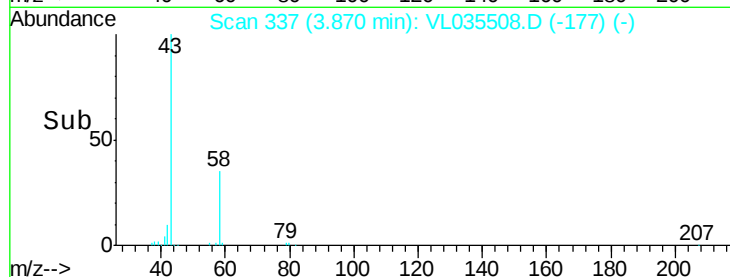
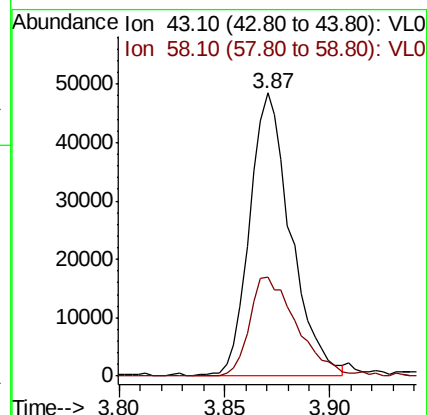
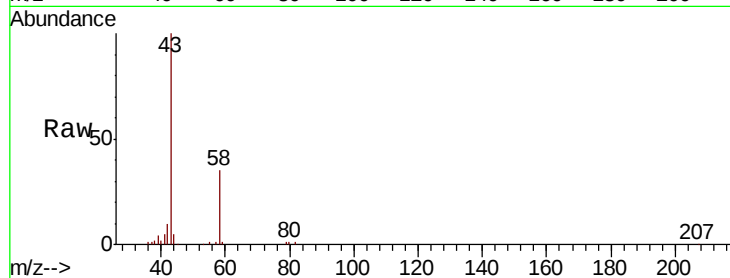
VSTDIC0.5

Tot Ion: 43 Resp: 66121

Ion Ratio Lower Upper

43 100

58 40.5 28.4 42.6



#16

1,3-Butadiene

Concen: 0.465 ppbv

RT: 3.33 min Scan# 170

Delta R.T. 0.00 min

Lab File: VL035508.D

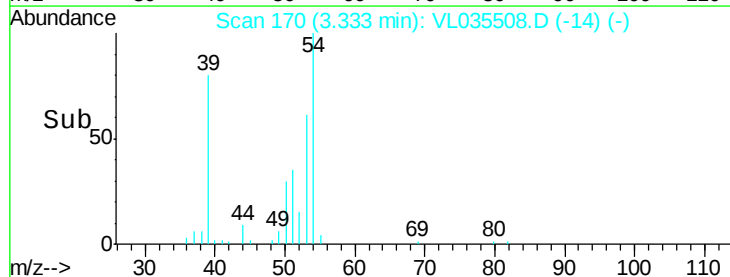
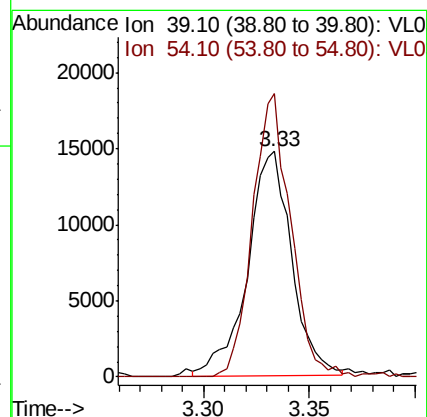
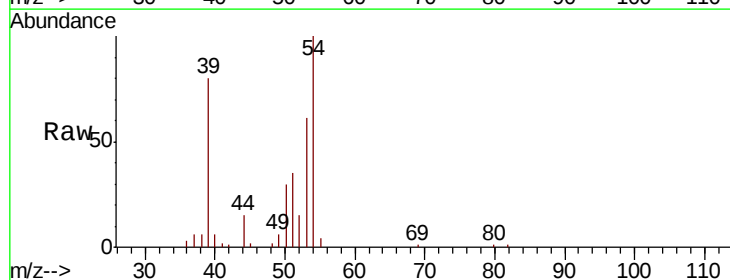
Acq: 27 Aug 2020 4:06

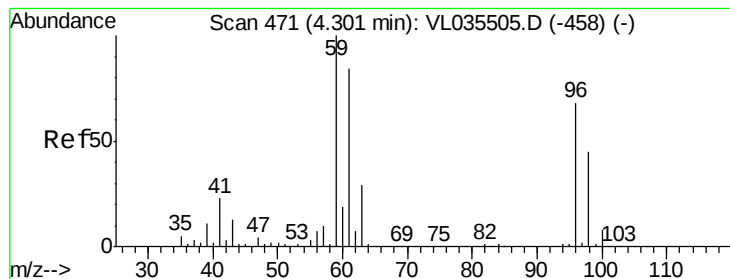
Tgt Ion: 39 Resp: 21595

Ion Ratio Lower Upper

39 100

54 109.3 88.4 132.6





#17

tert-Butyl alcohol

Concen: 0.480 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.01 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

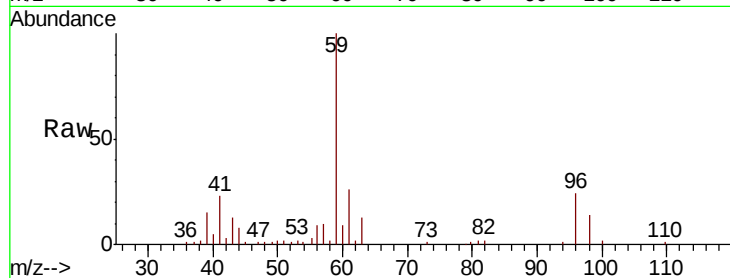
VSTDIC0.5

Tot Ion: 59 Resp: 71335

Ion Ratio Lower Upper

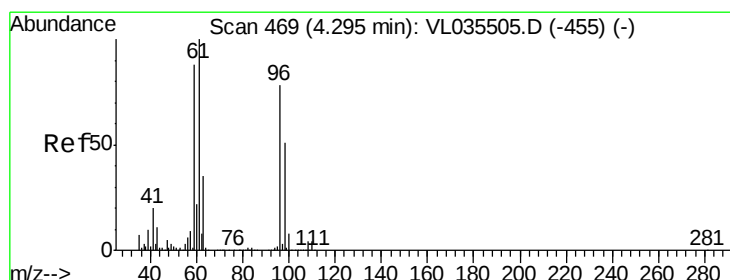
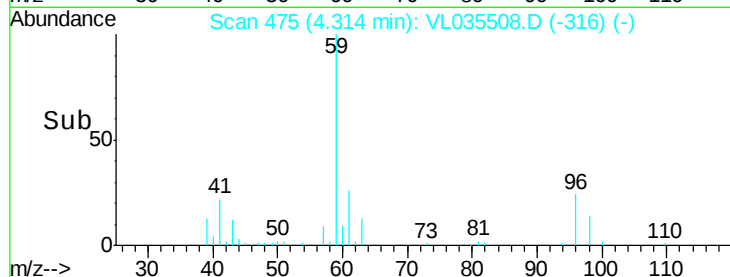
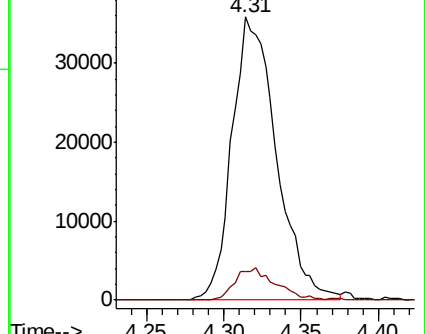
59 100

57 10.4 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.465 ppbv

RT: 4.29 min Scan# 469

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

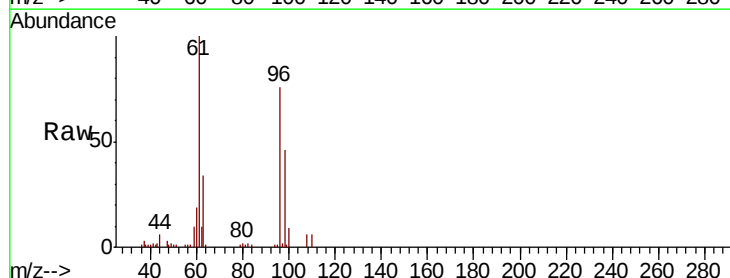
Tgt Ion: 96 Resp: 44180

Ion Ratio Lower Upper

96 100

61 131.4 103.0 154.6

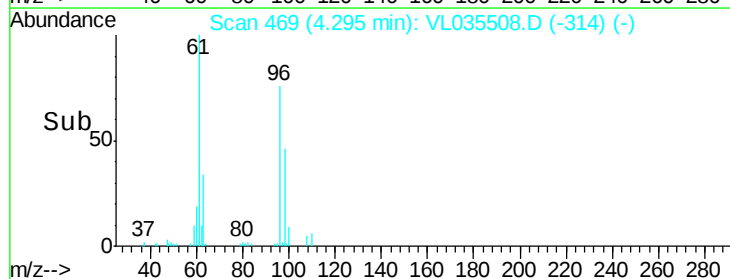
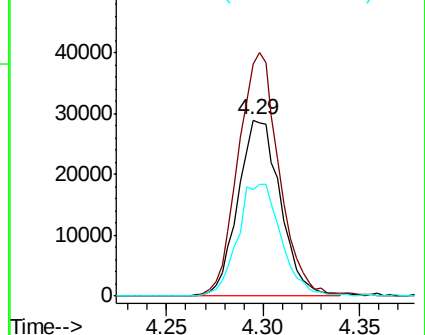
98 60.6 52.8 79.2

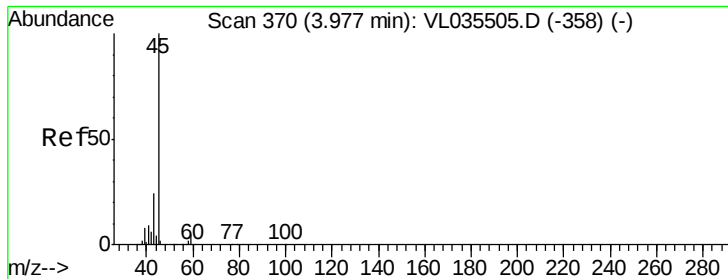


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.466 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.02 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

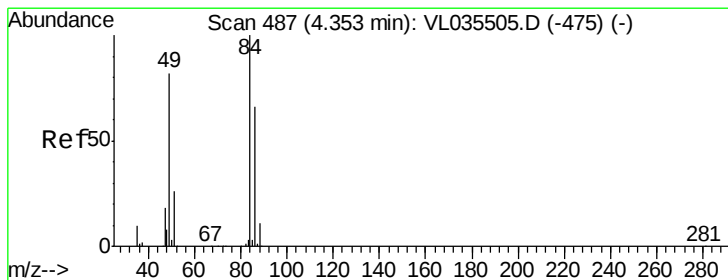
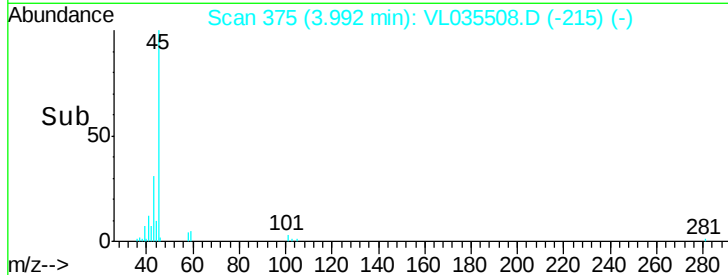
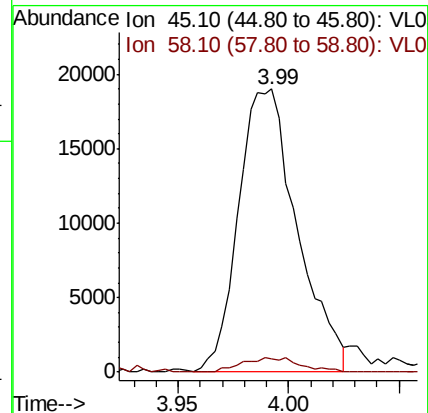
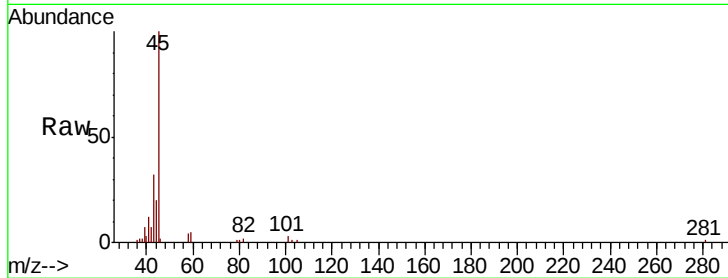
VSTDIC0.5

Tot Ion: 45 Resp: 35221

Ion Ratio Lower Upper

45 100

58 5.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.422 ppbv

RT: 4.35 min Scan# 487

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Tgt Ion: 84 Resp: 52617

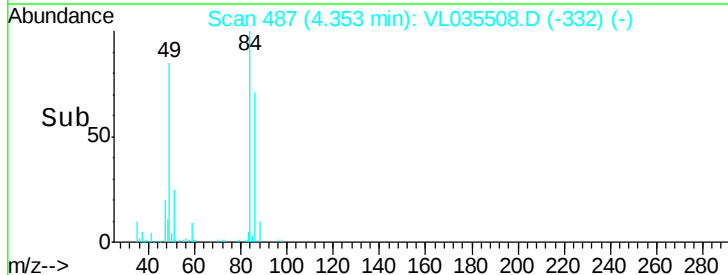
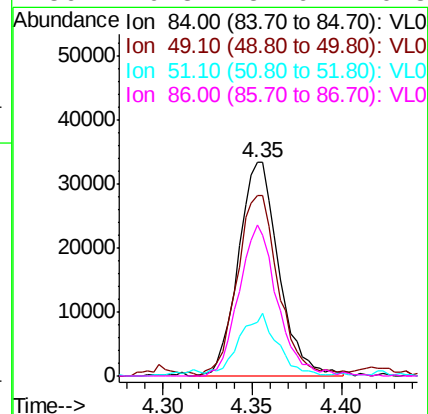
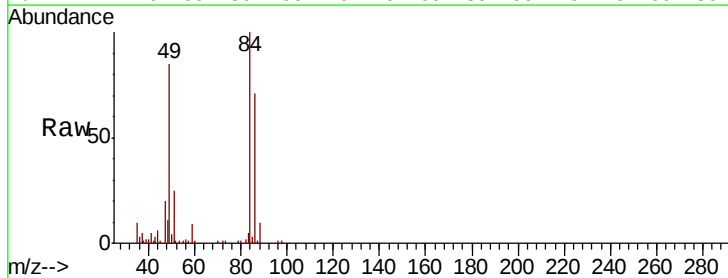
Ion Ratio Lower Upper

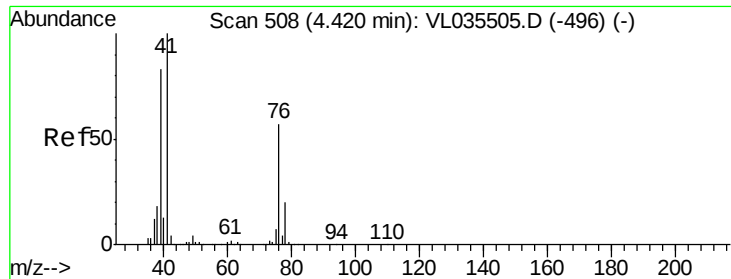
84 100

49 83.5 65.4 98.0

51 23.7 21.5 32.3

86 70.8 52.9 79.3





#21

Allvl Chloride

Concen: 0.443 ppbv

RT: 4.42 min Scan# 508

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

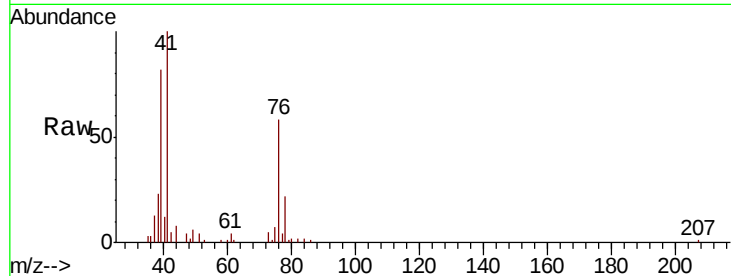
Tot Ion: 41 Resp: 26094

Ion Ratio Lower Upper

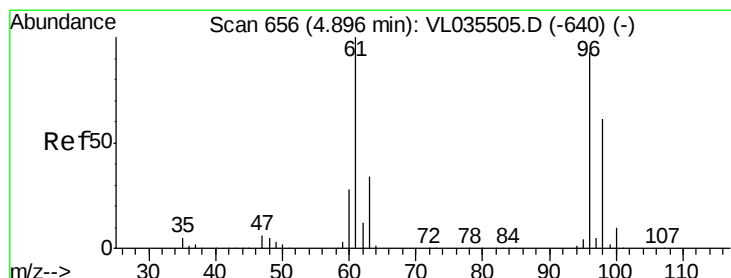
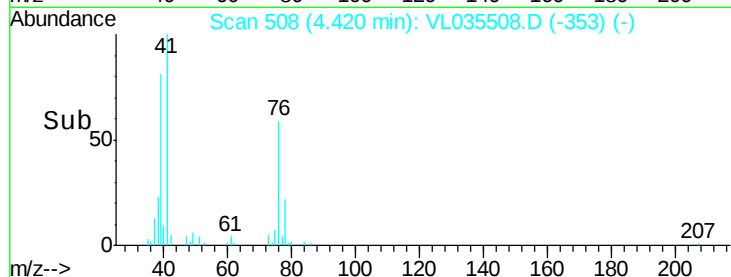
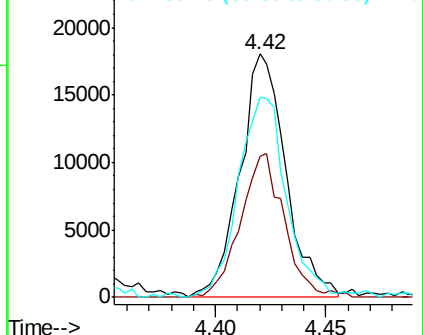
41 100

76 56.8 46.2 69.2

39 88.4 67.8 101.6



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: 0.482 ppbv

RT: 4.89 min Scan# 655

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

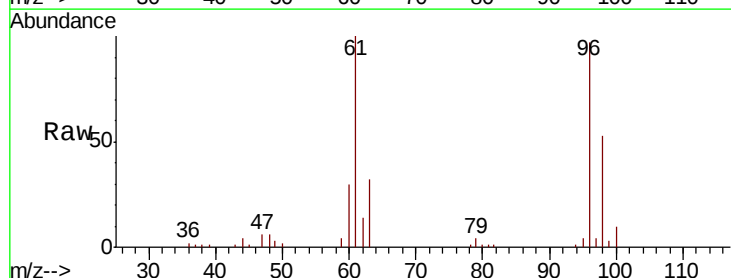
Tgt Ion: 96 Resp: 48366

Ion Ratio Lower Upper

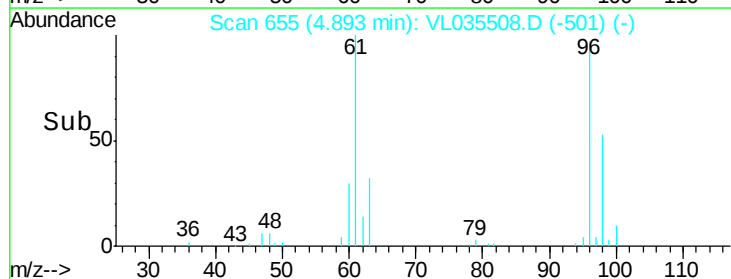
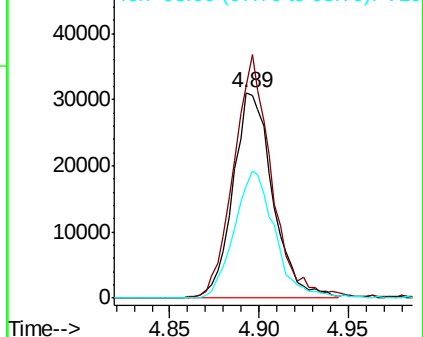
96 100

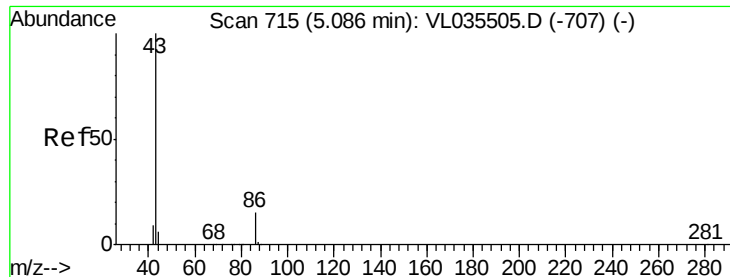
61 102.4 86.0 129.0

98 54.5 52.3 78.5



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: 0.539 ppbv

RT: 5.09 min Scan# 716

Delta R.T. 0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 82949

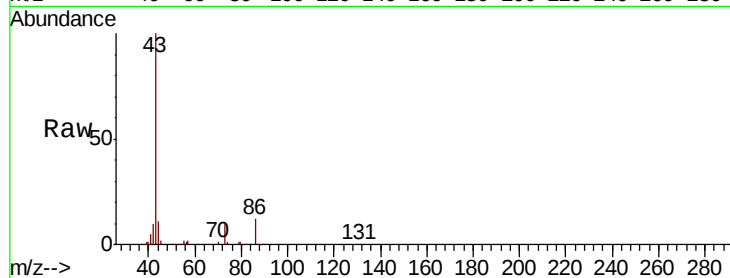
Ion Ratio Lower Upper

43 100

86 12.4 10.6 16.0

42 10.4 7.5 11.3

44 7.2 4.4 6.6#

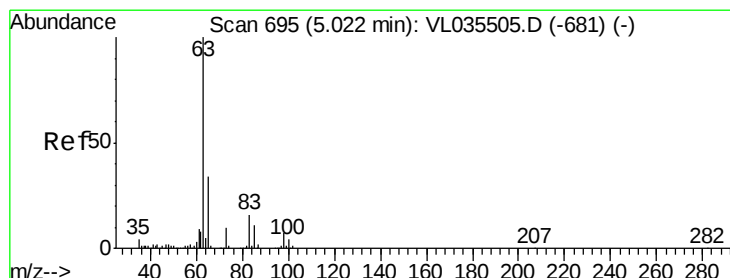
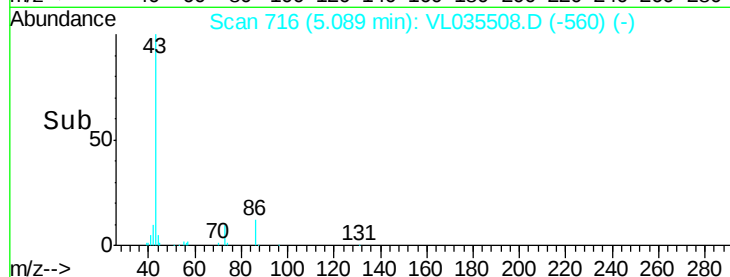
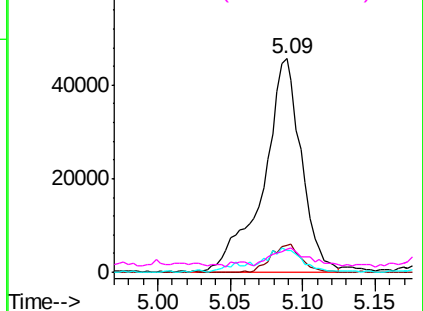


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.501 ppbv

RT: 5.02 min Scan# 695

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

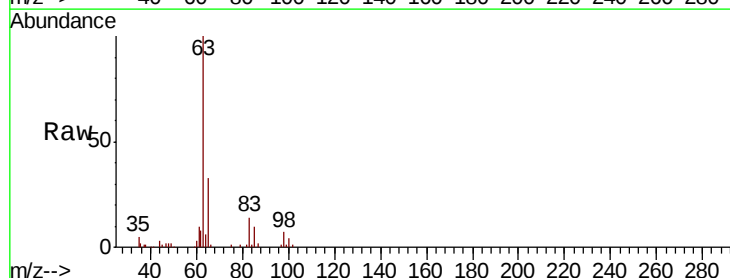
Tgt Ion: 63 Resp: 80777

Ion Ratio Lower Upper

63 100

98 6.5 3.4 10.1

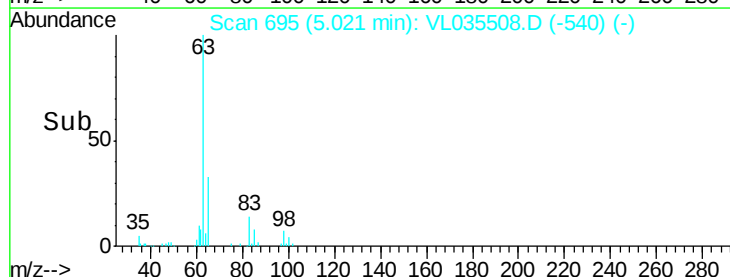
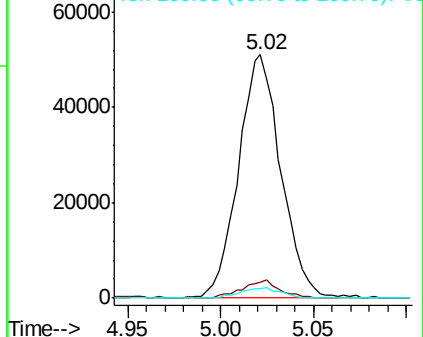
100 3.7 2.1 6.5

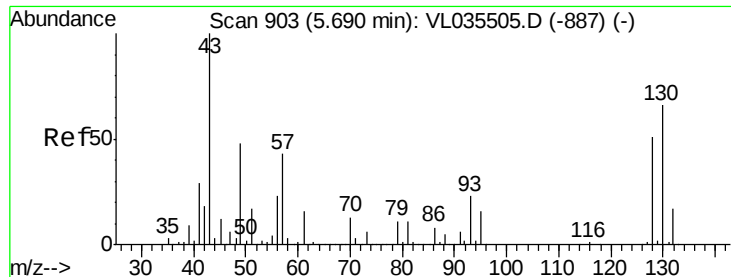


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

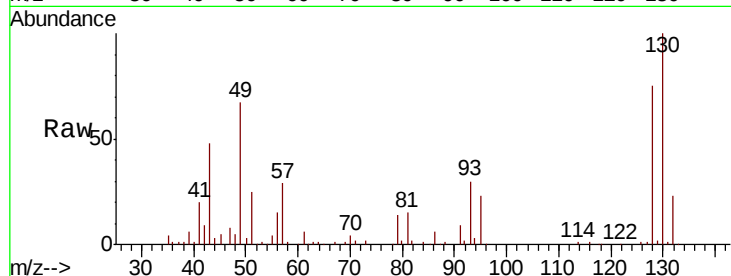




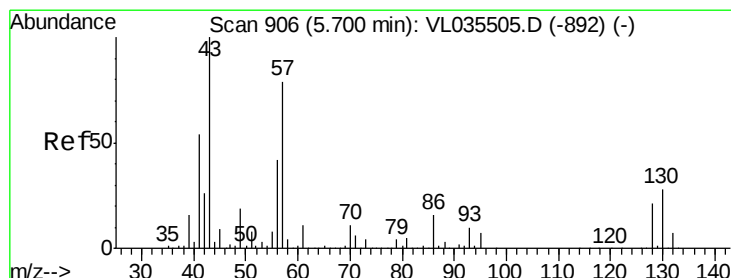
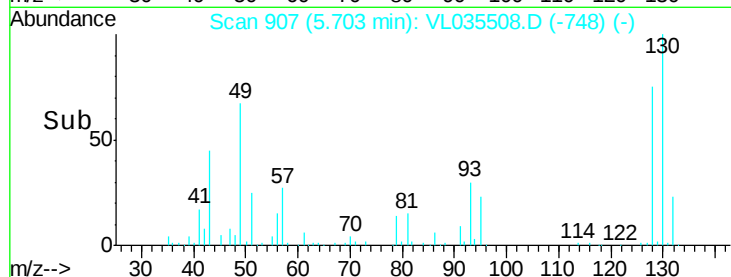
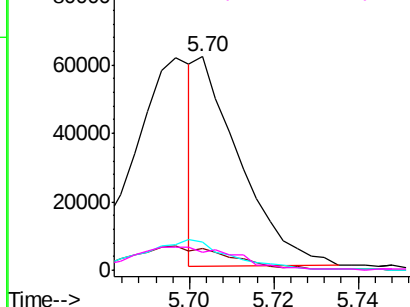
#25
Ethyl Acetate
Concen: 0.199 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.01 min
Lab File: VL035508.D
Acq: 27 Aug 2020 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 43 Resp: 44003
Ion Ratio Lower Upper
43 100
45 0.0 8.4 12.6#
61 31.8 10.6 16.0#
70 27.4 9.4 14.2#

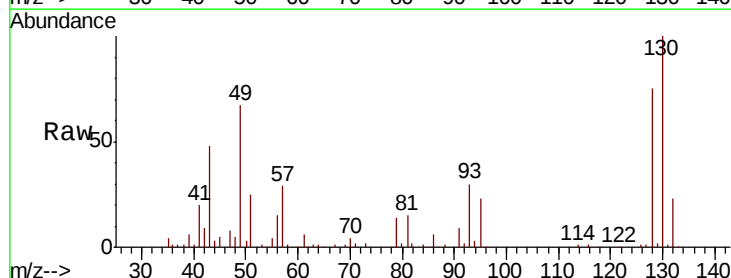


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

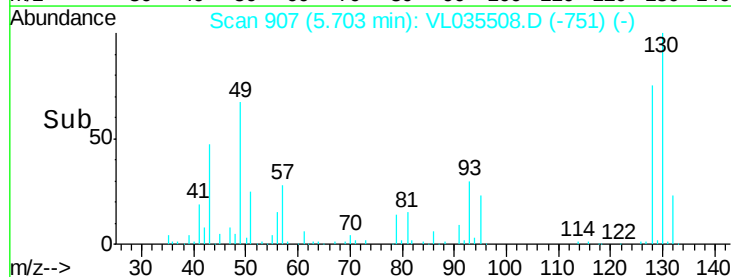
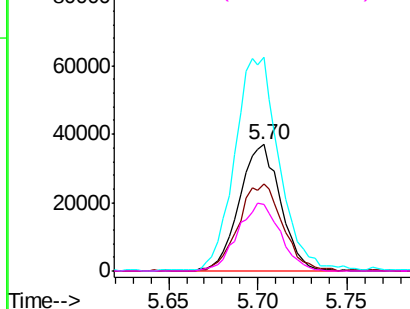


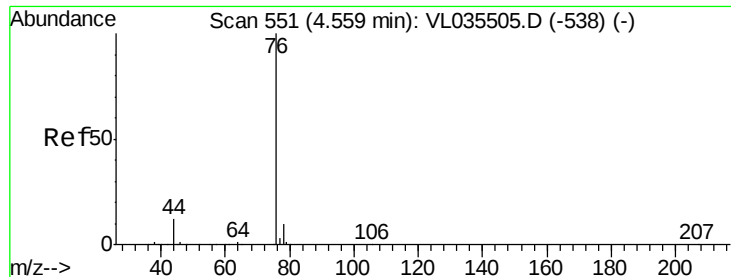
#26
Hexane
Concen: 0.445 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL035508.D
Acq: 27 Aug 2020 4:06

Tgt Ion: 57 Resp: 59885
Ion Ratio Lower Upper
57 100
41 73.8 55.9 83.9
43 183.8 141.8 212.8
56 54.9 41.8 62.8



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.399 ppbv

RT: 4.56 min Scan# 552

Delta R.T. 0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

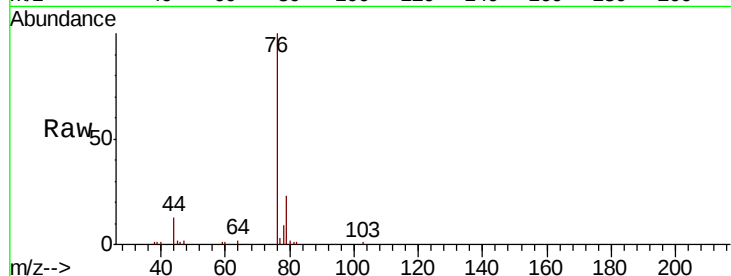
Tot Ion: 76 Resp: 71352

Ion Ratio Lower Upper

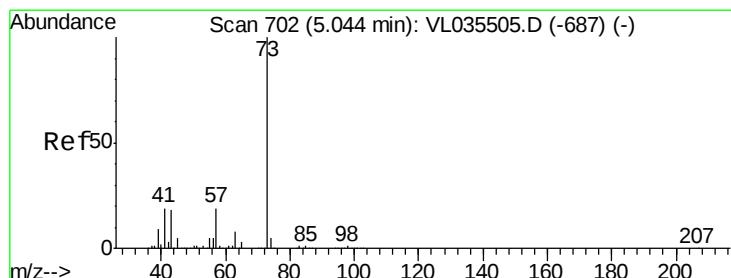
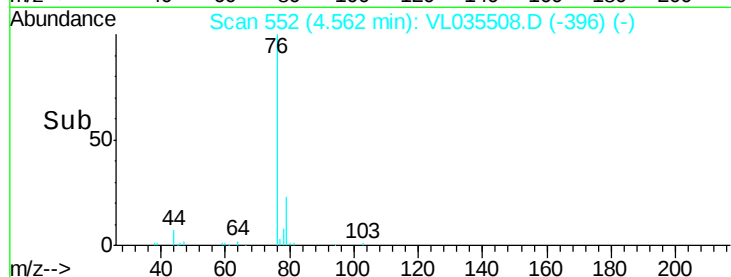
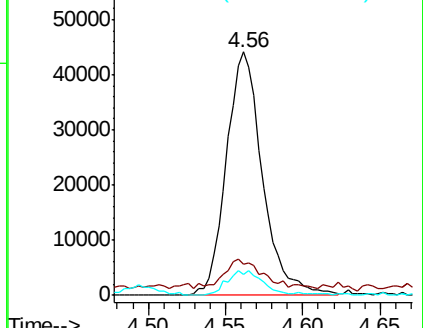
76 100

44 13.3 9.3 13.9

78 10.9 7.8 11.6



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.447 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.02 min

Lab File: VL035508.D

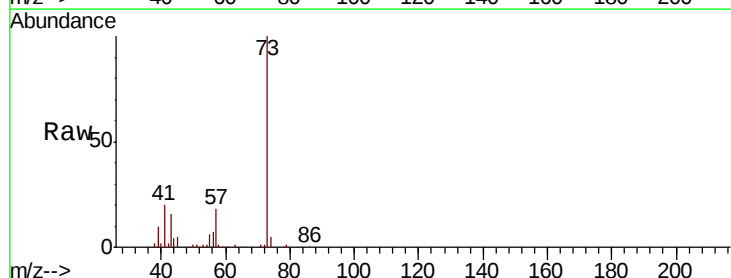
Acq: 27 Aug 2020 4:06

Tgt Ion: 73 Resp: 97548

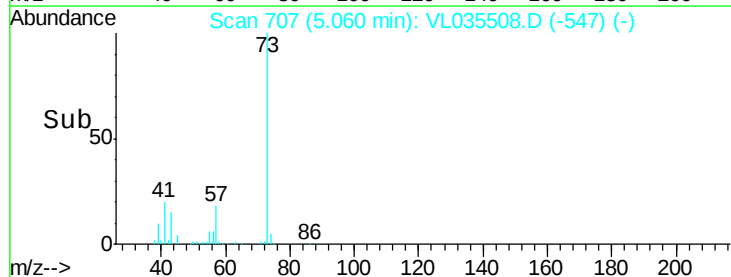
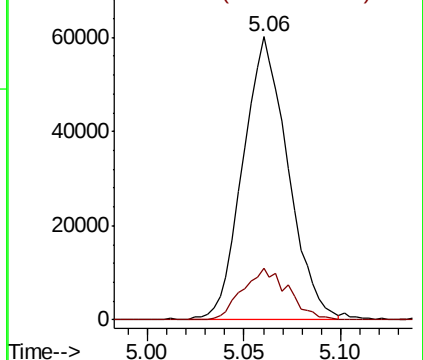
Ion Ratio Lower Upper

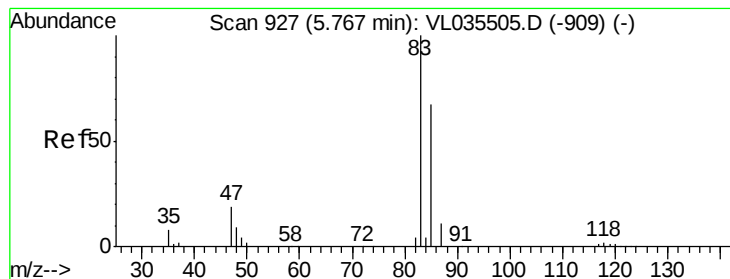
73 100

57 18.5 15.2 22.8



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





#29

Chloroform

Concen: 0.489 ppbv

RT: 5.76 min Scan# 925

Delta R.T. -0.01 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

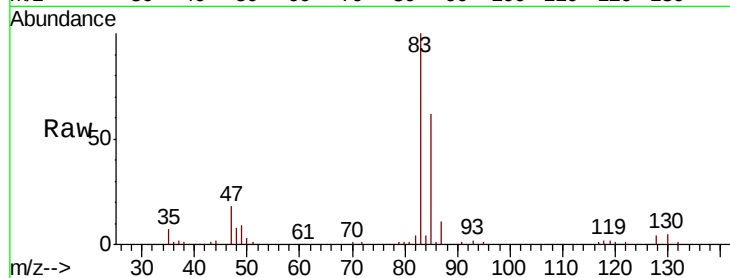
VSTDIC0.5

Tot Ion: 83 Resp: 124862

Ion Ratio Lower Upper

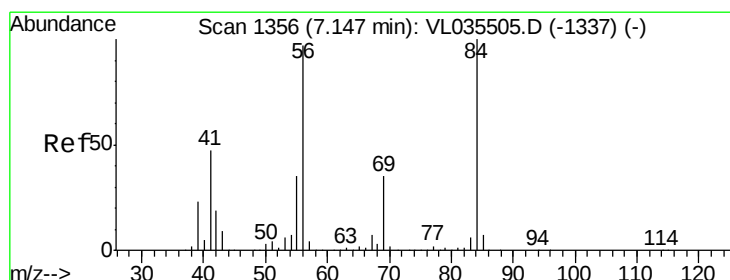
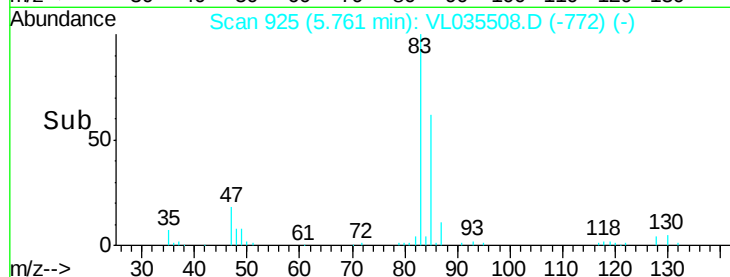
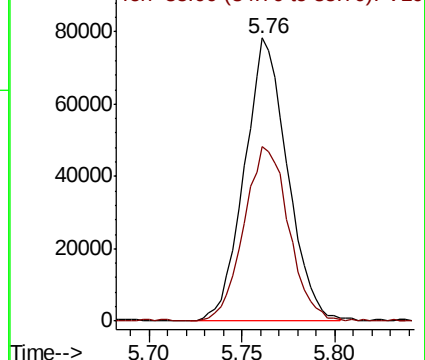
83 100

85 62.0 53.9 80.9



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.417 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. 0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

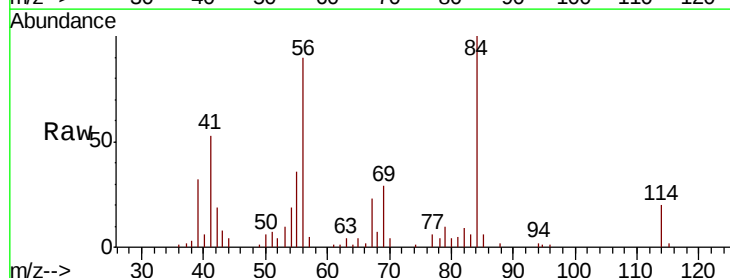
Tgt Ion: 84 Resp: 56265

Ion Ratio Lower Upper

84 100

56 95.1 80.1 120.1

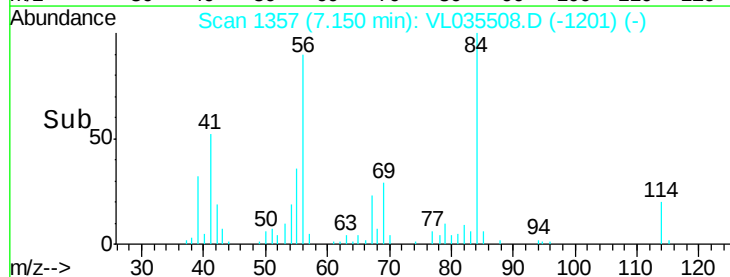
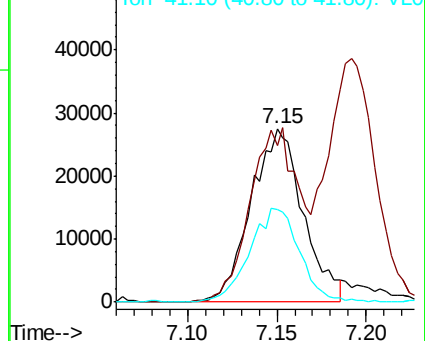
41 51.8 38.1 57.1

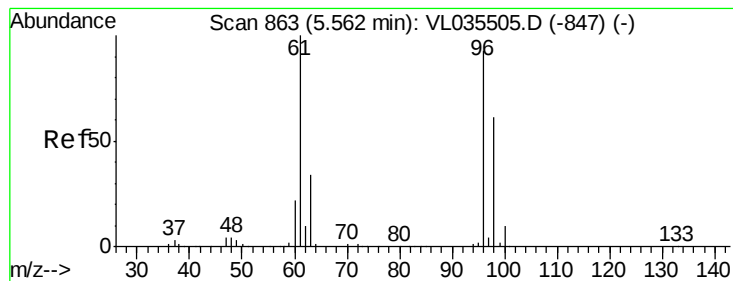


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 0.452 ppbv

RT: 5.56 min Scan# 863

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

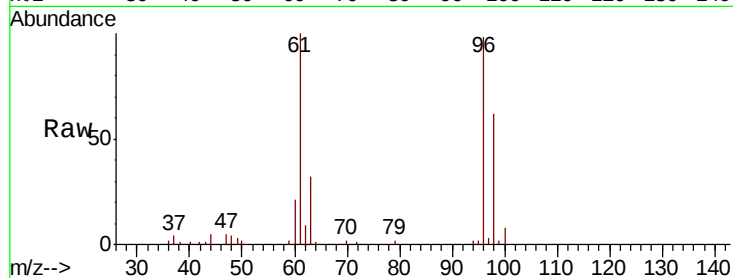
Tot Ion: 61 Resp: 57460

Ion Ratio Lower Upper

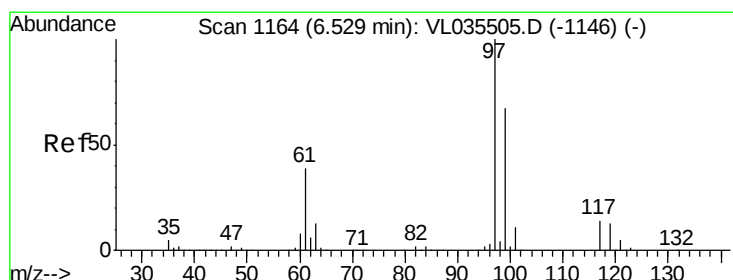
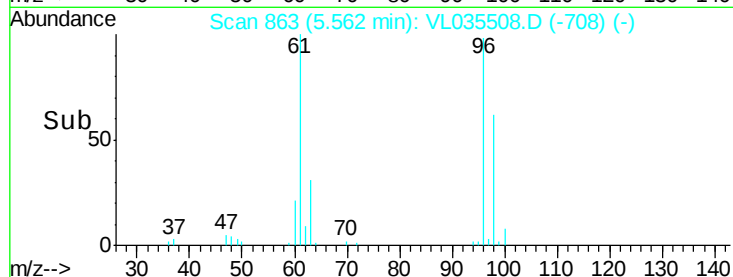
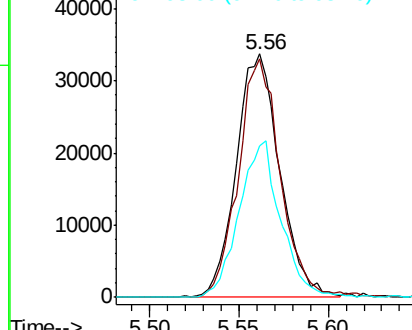
61 100

96 98.2 74.4 111.6

98 62.5 49.2 73.8



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.465 ppbv

RT: 6.53 min Scan# 1164

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

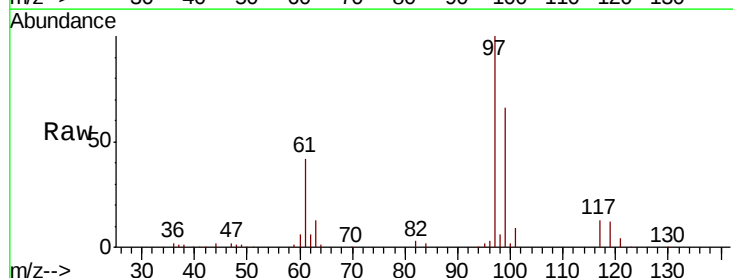
Tgt Ion: 97 Resp: 108211

Ion Ratio Lower Upper

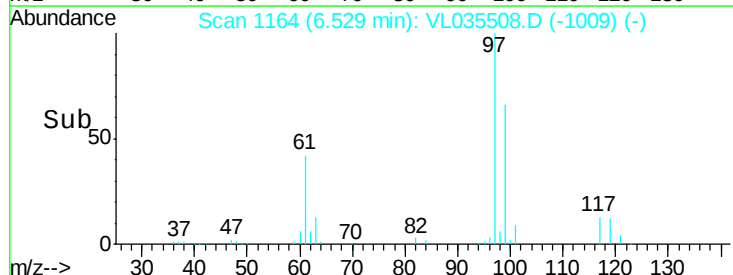
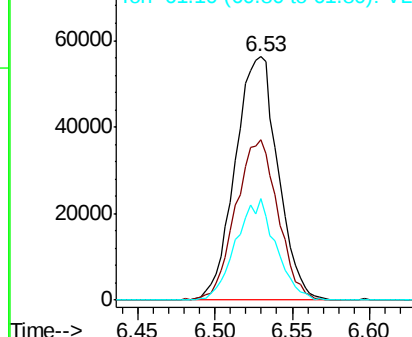
97 100

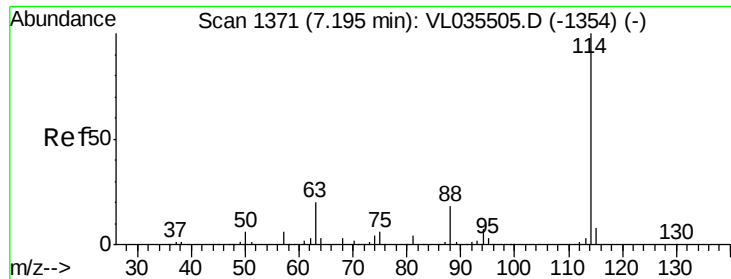
99 65.2 53.3 79.9

61 38.8 30.6 46.0



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0

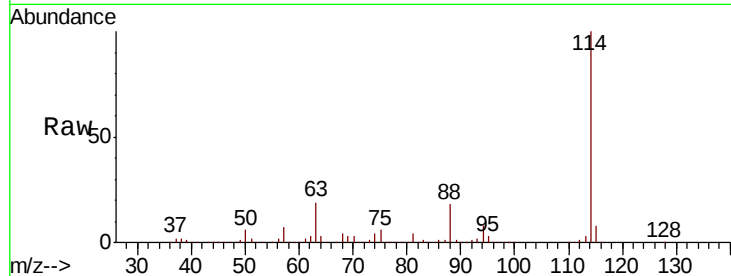




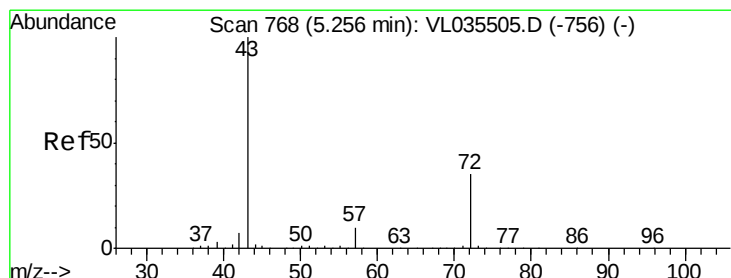
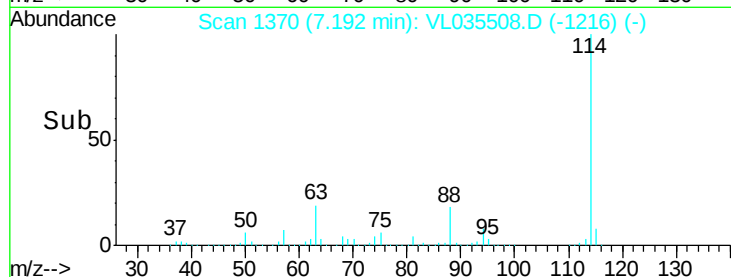
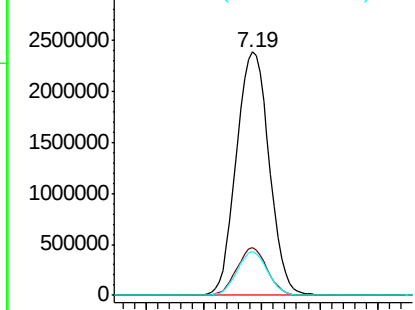
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.00 min
 Lab File: VL035508.D
 Acq: 27 Aug 2020 4:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:114 Resp: 4709132
 Ion Ratio Lower Upper
 114 100
 63 18.2 14.7 22.1
 88 16.7 13.4 20.2

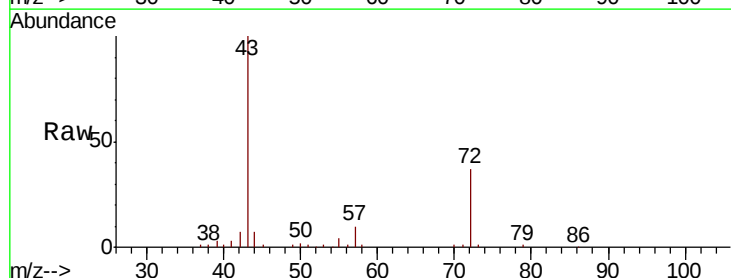


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

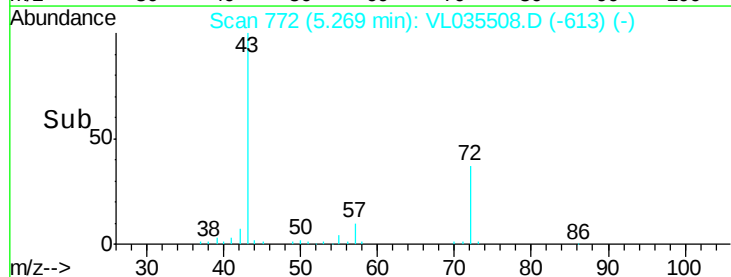
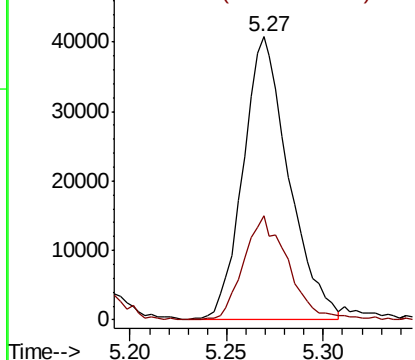


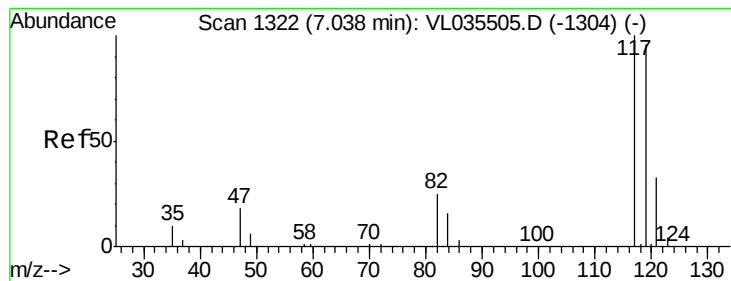
#34
 2-Butanone
 Concen: 0.481 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. 0.01 min
 Lab File: VL035508.D
 Acq: 27 Aug 2020 4:06

Tgt Ion: 43 Resp: 66958
 Ion Ratio Lower Upper
 43 100
 72 36.0 27.7 41.5



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





#35

Carbon Tetrachloride

Concen: 0.468 ppbv

RT: 7.04 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

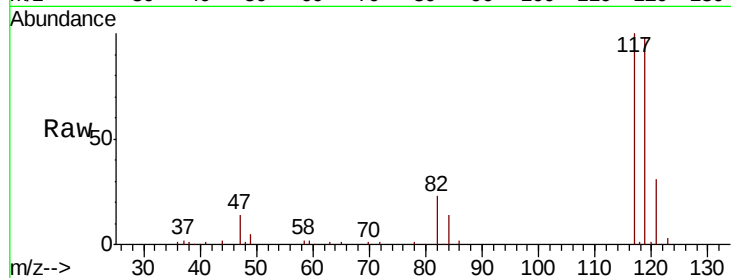
Tot Ion:117 Resp: 107183

Ion Ratio Lower Upper

117 100

119 97.7 77.2 115.8

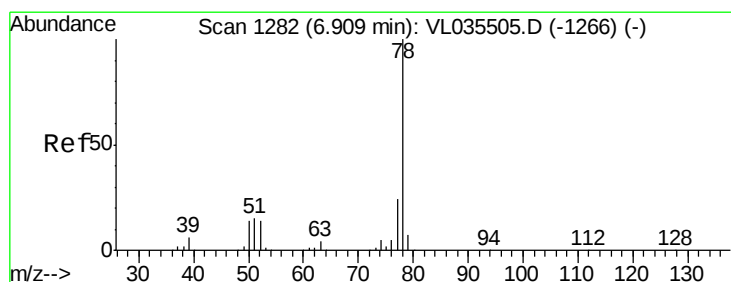
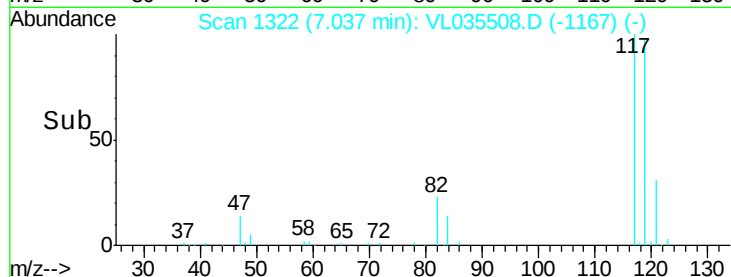
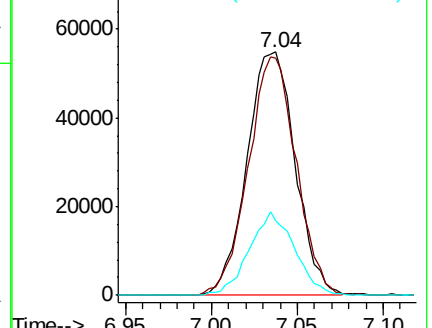
121 30.7 26.1 39.1



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: 0.474 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

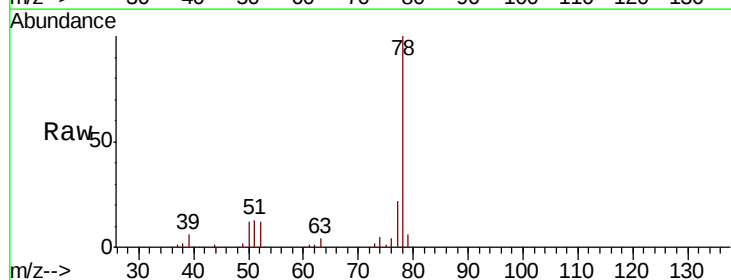
Tgt Ion: 78 Resp: 146814

Ion Ratio Lower Upper

78 100

77 21.7 19.3 28.9

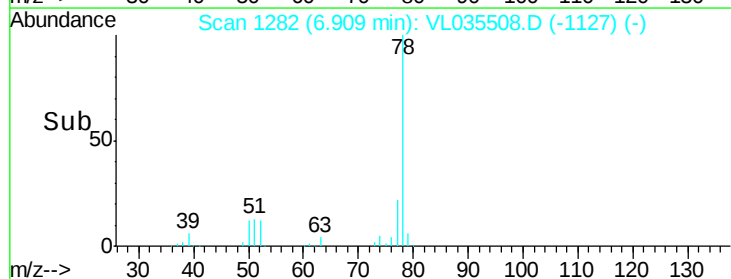
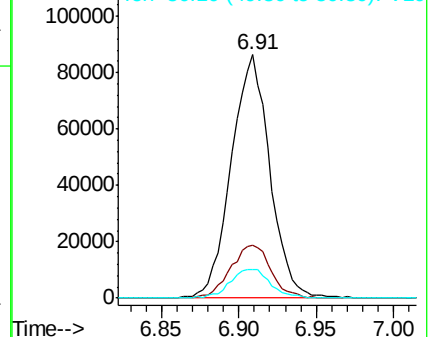
50 11.6 11.0 16.6

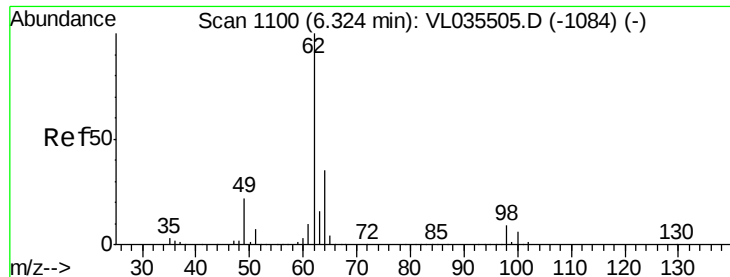


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

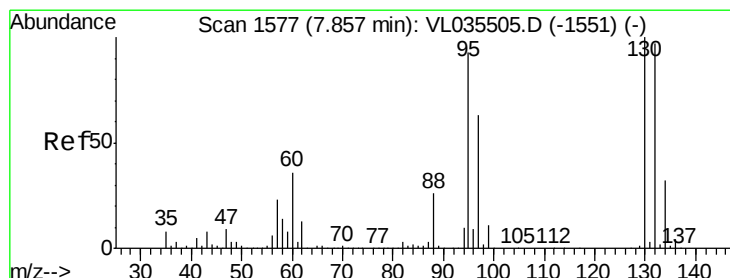
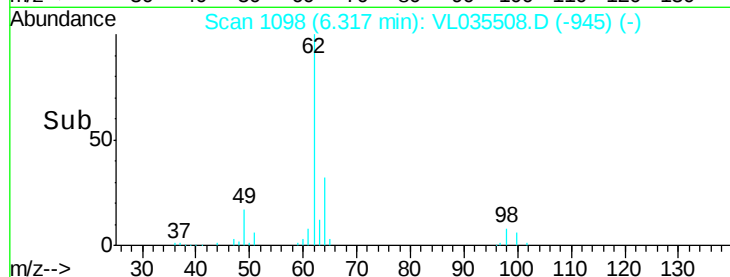
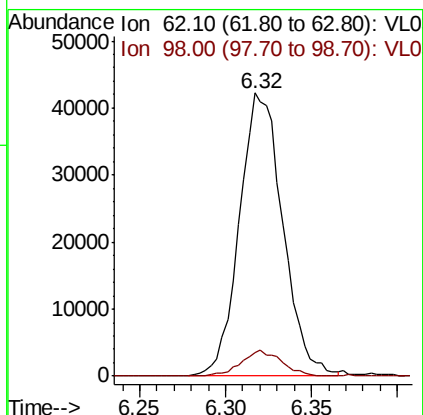
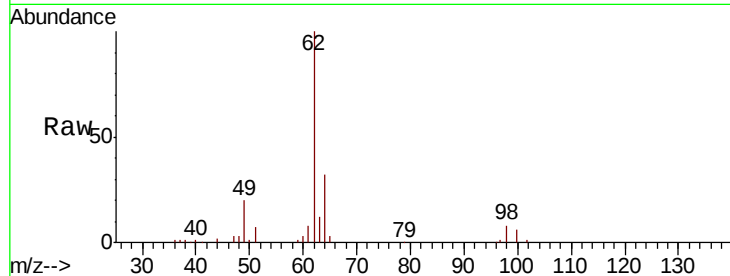




#37
 1,2-Dichloroethane
 Concen: 0.505 ppbv
 RT: 6.32 min Scan# 1098
 Delta R.T. -0.01 min
 Lab File: VL035508.D
 Acq: 27 Aug 2020 4:06

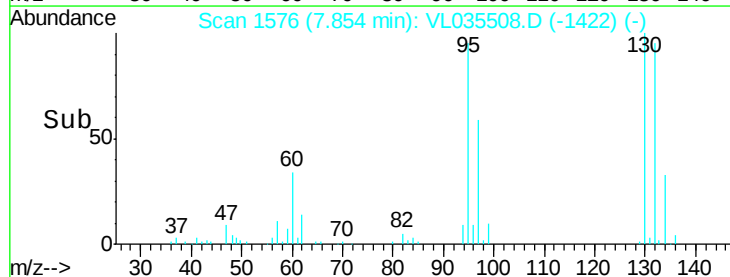
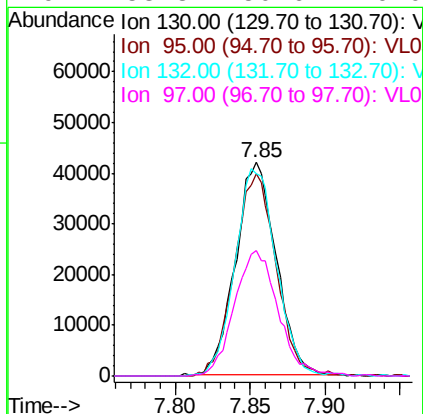
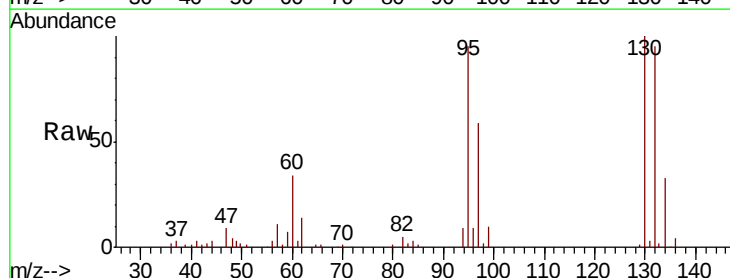
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

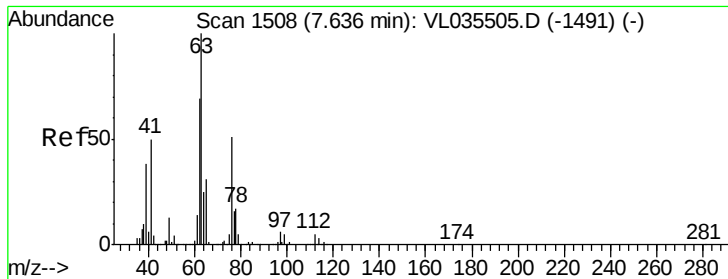
Tot Ion: 62 Resp: 74141
 Ion Ratio Lower Upper
 62 100
 98 8.5 7.4 11.0



#38
 Trichloroethene
 Concen: 0.464 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VL035508.D
 Acq: 27 Aug 2020 4:06

Tgt Ion: 130 Resp: 79394
 Ion Ratio Lower Upper
 130 100
 95 95.2 74.6 112.0
 132 94.8 77.6 116.4
 97 58.8 50.6 76.0





#39

1,2-Dichloropropane

Concen: 0.490 ppbv

RT: 7.63 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

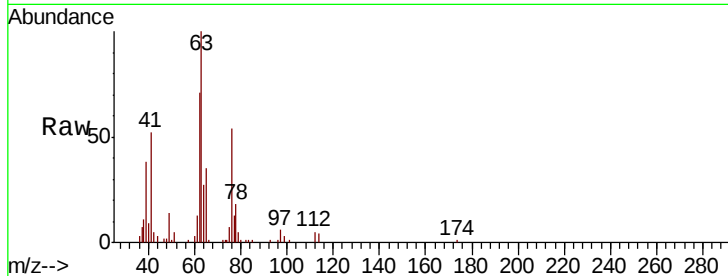
Tot Ion: 63 Resp: 50839

Ion Ratio Lower Upper

63 100

41 51.5 40.0 60.0

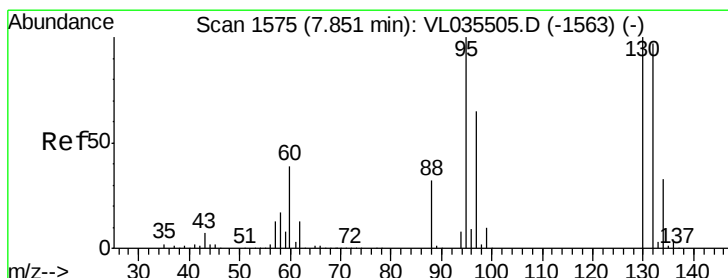
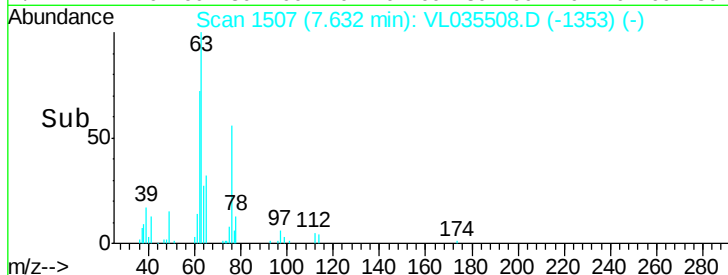
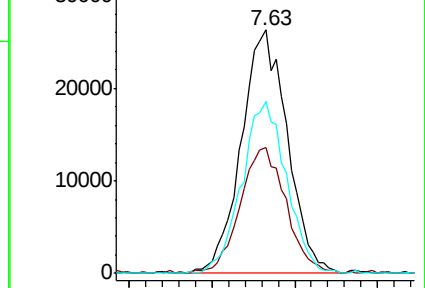
62 70.7 55.4 83.0



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: 0.193 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. 0.04 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Tgt Ion: 88 Resp: 9838

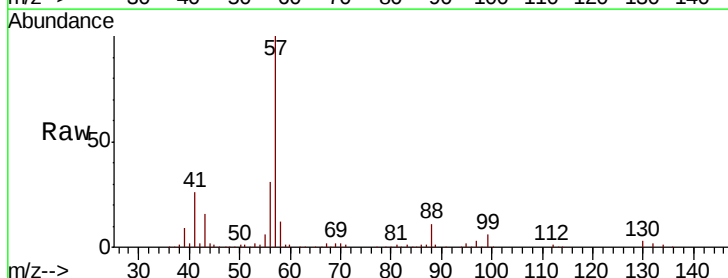
Ion Ratio Lower Upper

88 100

58 262.6 68.7 103.1#

43 0.0 104.3 156.5#

57 2013.7 560.7 841.1#

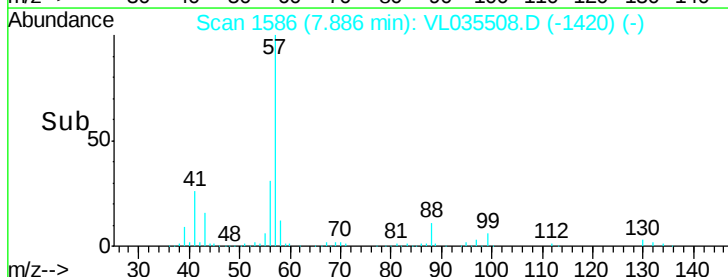
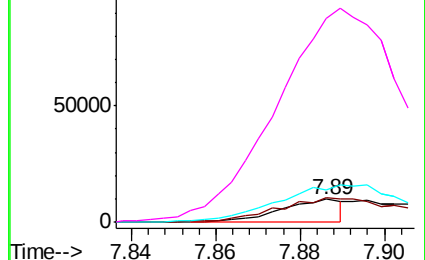


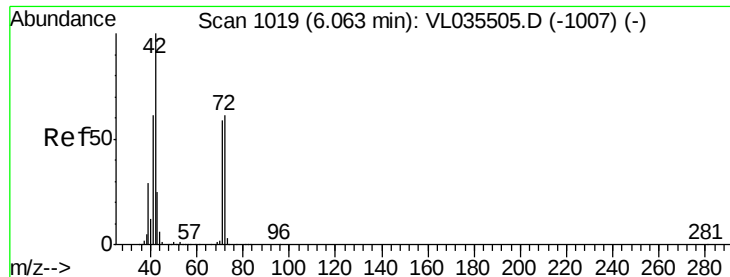
Abundance Ion 88.10 (87.80 to 88.80): VL0

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

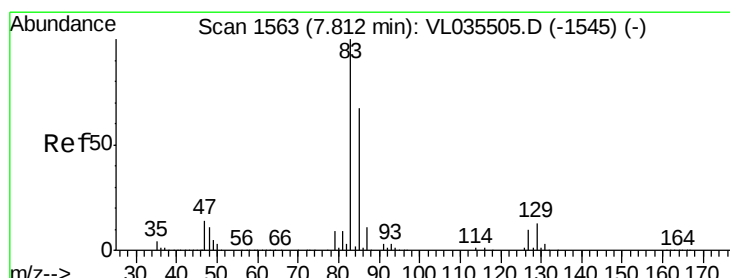
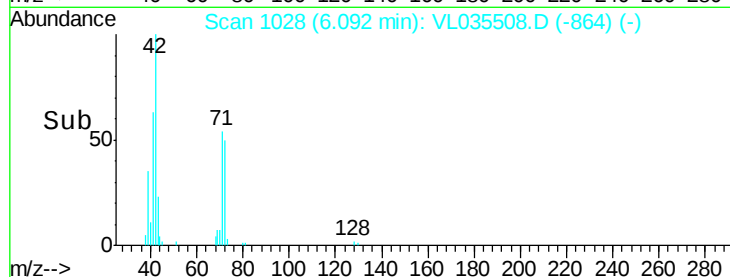
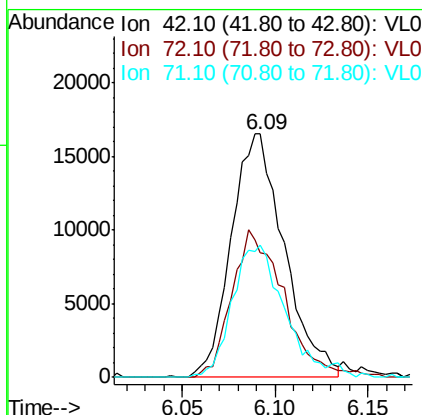
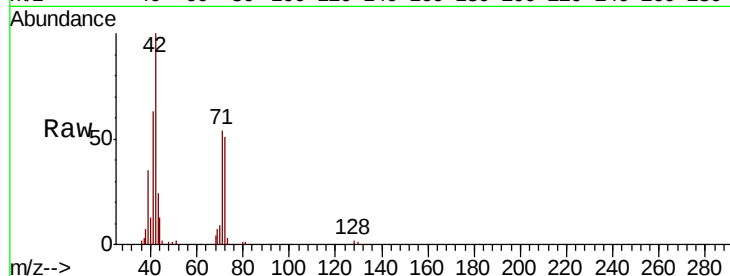




#41
Tetrahydrofuran
Concen: 0.435 ppbv
RT: 6.09 min Scan# 1028
Delta R.T. 0.03 min
Lab File: VL035508.D
Acq: 27 Aug 2020 4:06

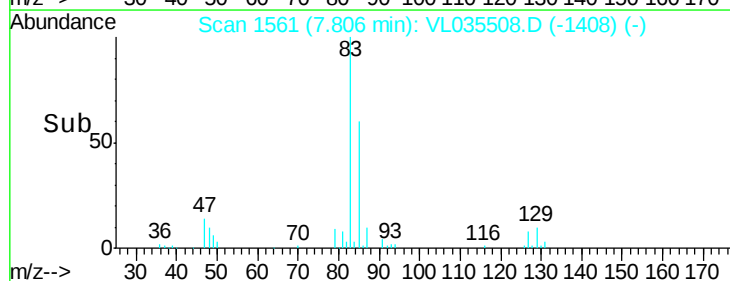
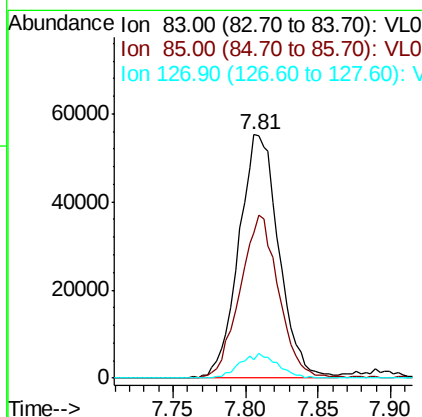
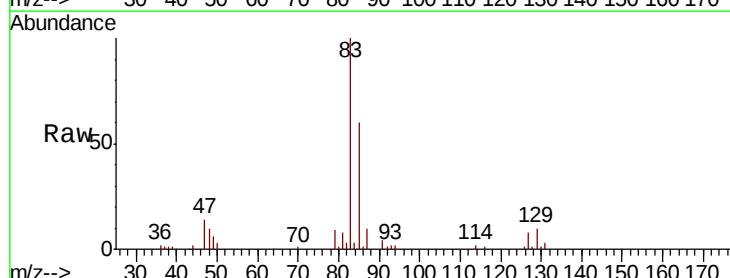
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

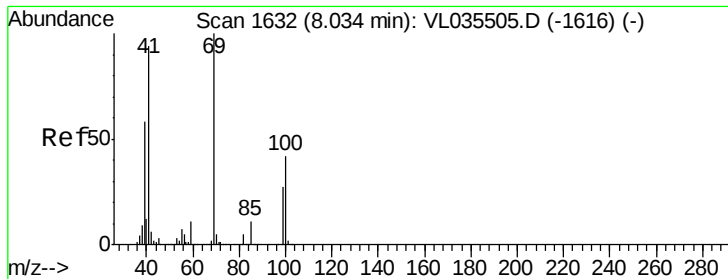
Tot Ion: 42 Resp: 32849
Ion Ratio Lower Upper
42 100
72 59.6 48.6 73.0
71 54.4 46.1 69.1



#42
Bromodichloromethane
Concen: 0.443 ppbv
RT: 7.81 min Scan# 1561
Delta R.T. -0.01 min
Lab File: VL035508.D
Acq: 27 Aug 2020 4:06

Tgt Ion: 83 Resp: 106238
Ion Ratio Lower Upper
83 100
85 59.6 53.7 80.5
127 7.7 8.1 12.1#

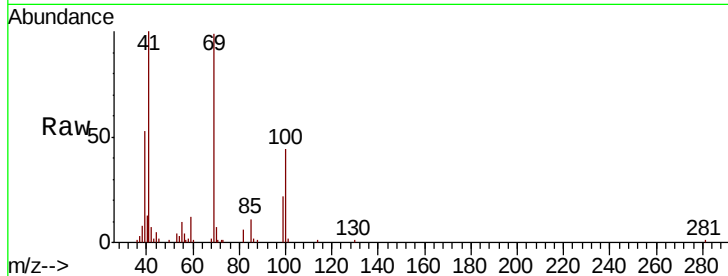




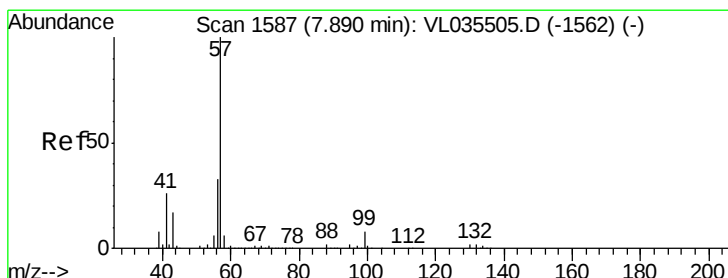
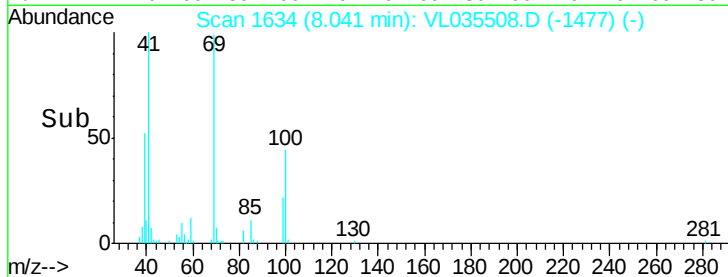
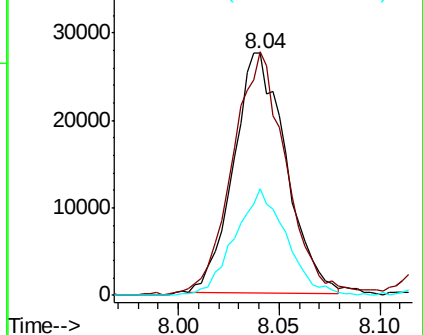
#43
Methvl Methacrilate
Concen: 0.415 ppbv
RT: 8.04 min Scan# 1634
Delta R.T. 0.01 min
Lab File: VL035508.D
Acq: 27 Aug 2020 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 69 Resp: 49791
Ion Ratio Lower Upper
69 100
41 104.4 76.6 114.8
100 43.8 33.8 50.6

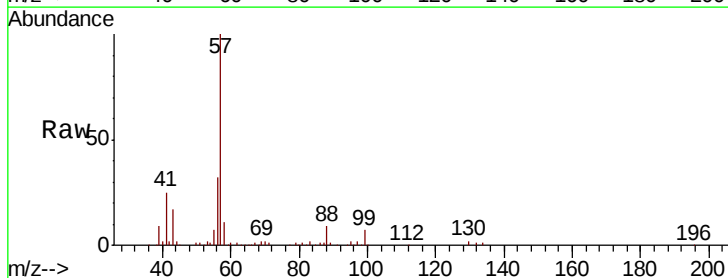


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

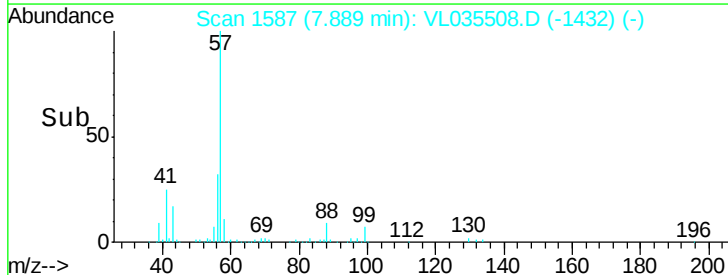
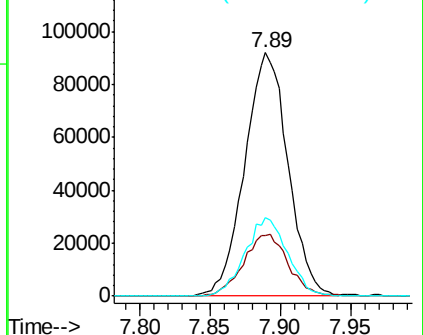


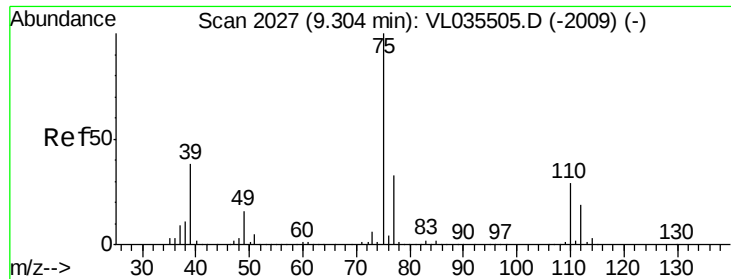
#44
2,2,4-Trimethylpentane
Concen: 0.486 ppbv
RT: 7.89 min Scan# 1587
Delta R.T. -0.00 min
Lab File: VL035508.D
Acq: 27 Aug 2020 4:06

Tgt Ion: 57 Resp: 197189
Ion Ratio Lower Upper
57 100
41 26.4 20.5 30.7
56 31.6 25.3 37.9



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

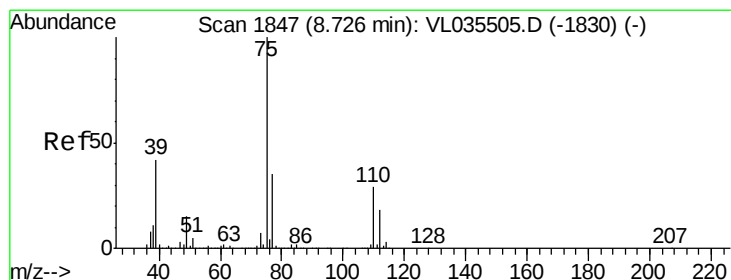
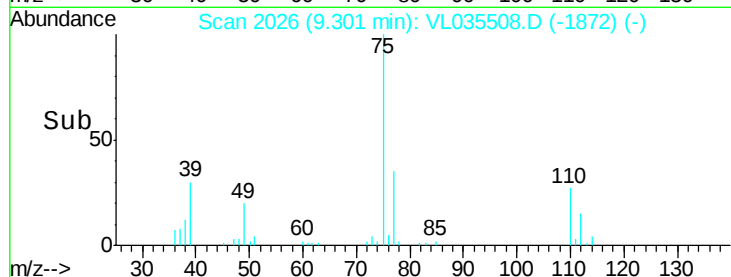
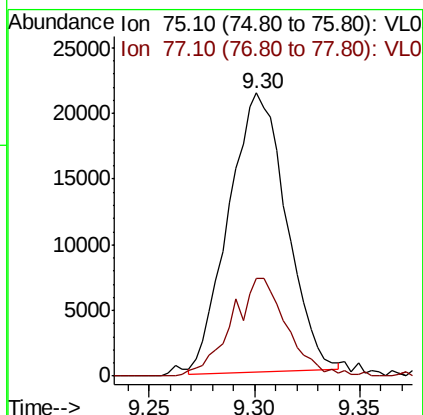
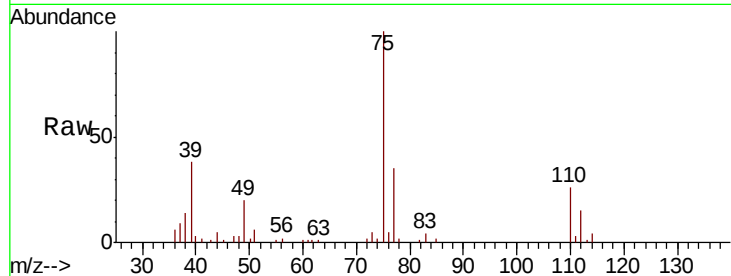




#45
t-1,3-Dichloropropene
Concen: 0.331 ppbv
RT: 9.30 min Scan# 2026
Delta R.T. -0.00 min
Lab File: VL035508.D
Acq: 27 Aug 2020 4:06

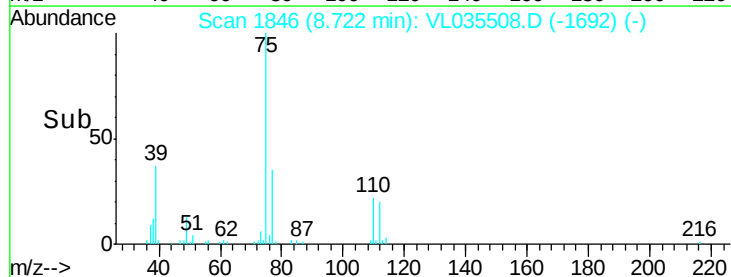
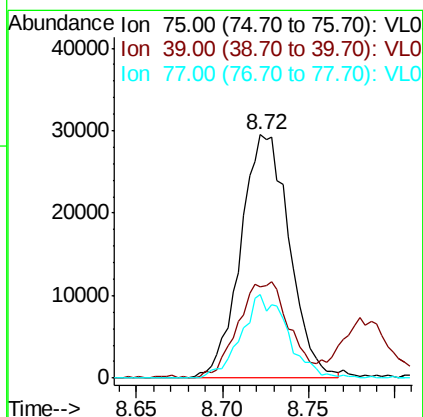
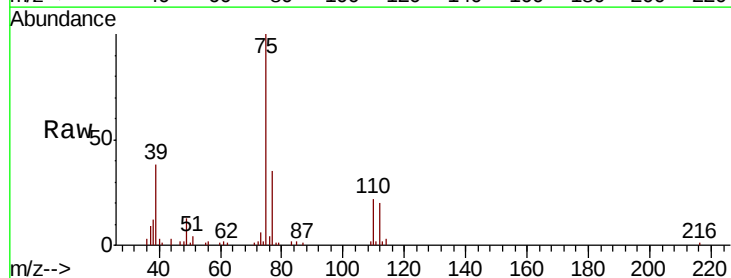
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

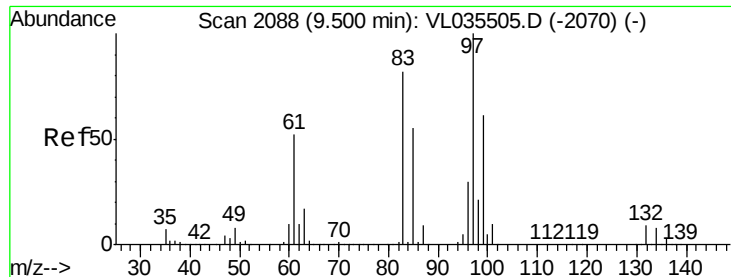
Tot Ion: 75 Resp: 40559
Ion Ratio Lower Upper
75 100
77 34.5 26.5 39.7



#46
cis-1,3-Dichloropropene
Concen: 0.382 ppbv
RT: 8.72 min Scan# 1846
Delta R.T. -0.00 min
Lab File: VL035508.D
Acq: 27 Aug 2020 4:06

Tgt Ion: 75 Resp: 58027
Ion Ratio Lower Upper
75 100
39 37.7 33.7 50.5
77 34.6 27.8 41.6

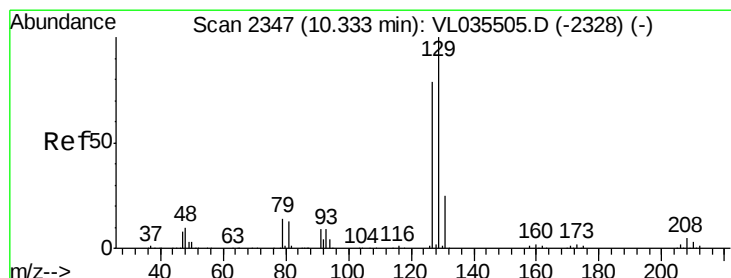
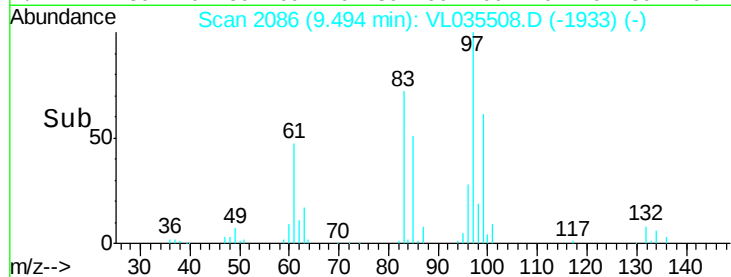
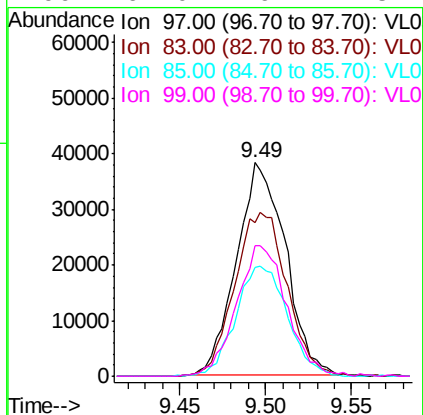
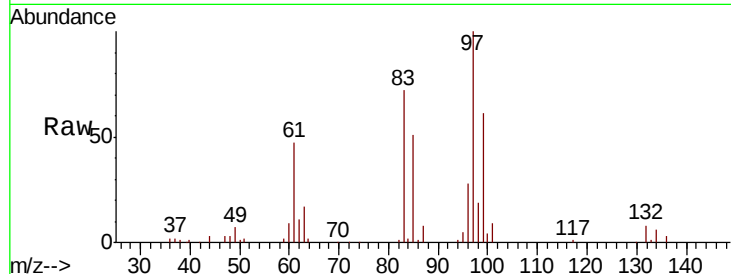




#47
 1,1,2-Trichloroethane
 Concen: 0.485 ppbv
 RT: 9.49 min Scan# 2086
 Delta R.T. -0.01 min
 Lab File: VL035508.D
 Acq: 27 Aug 2020 4:06

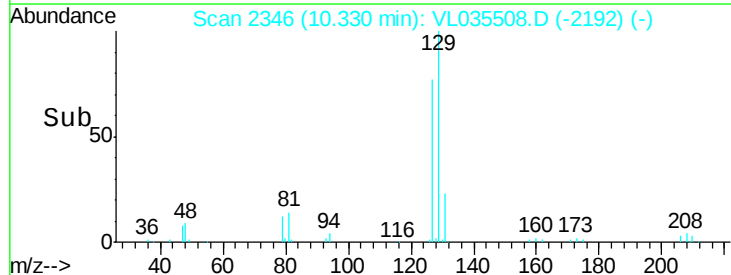
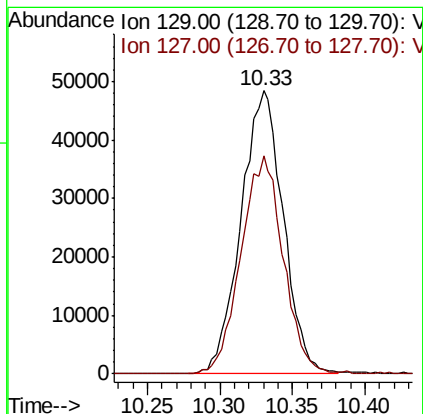
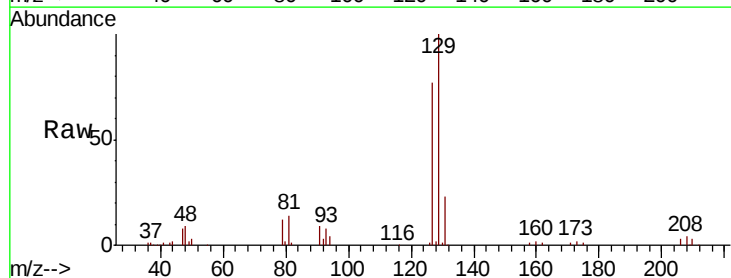
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

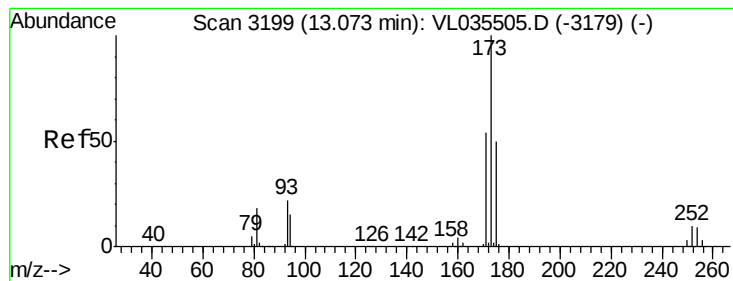
Tot Ion:	97	Resp:	75143
Ion	Ratio	Lower	Upper
97	100		
83	71.9	65.4	98.2
85	50.9	43.7	65.5
99	61.0	49.1	73.7



#48
 Dibromochloromethane
 Concen: 0.398 ppbv
 RT: 10.33 min Scan# 2346
 Delta R.T. -0.00 min
 Lab File: VL035508.D
 Acq: 27 Aug 2020 4:06

Tgt Ion:	129	Resp:	98064
Ion	Ratio	Lower	Upper
129	100		
127	77.0	39.3	117.8





#49

Bromoform

Concen: 0.344 ppbv

RT: 13.07 min Scan# 3198

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

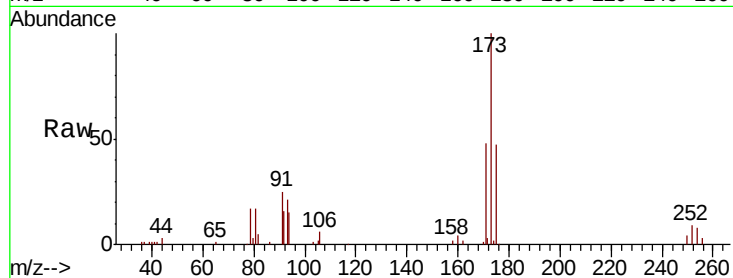
Tot Ion:173 Resp: 78375

Ion Ratio Lower Upper

173 100

175 49.4 39.8 59.8

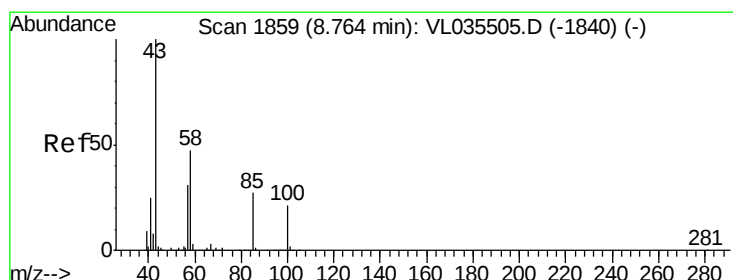
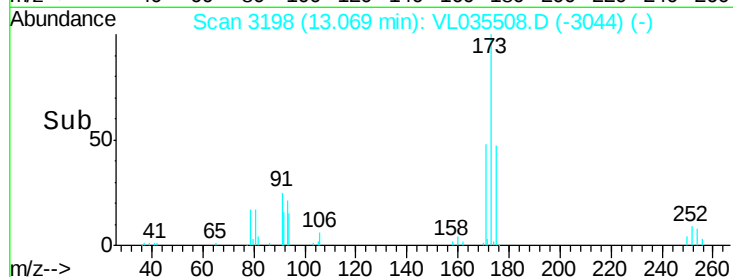
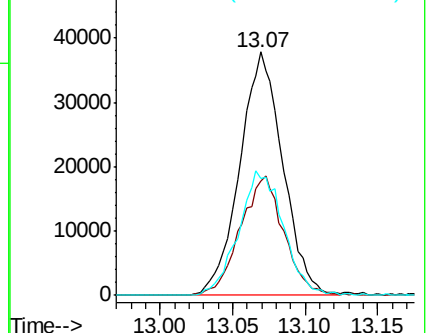
171 53.1 42.4 63.6



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: 0.457 ppbv

RT: 8.78 min Scan# 1865

Delta R.T. 0.02 min

Lab File: VL035508.D

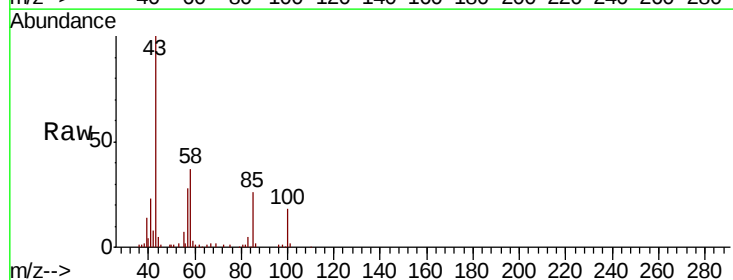
Acq: 27 Aug 2020 4:06

Tgt Ion: 43 Resp: 91663

Ion Ratio Lower Upper

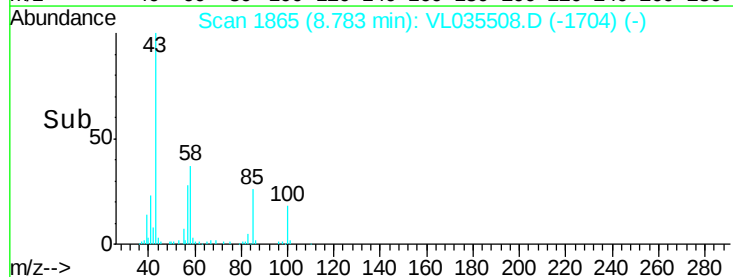
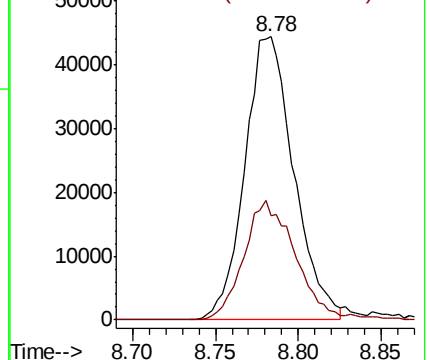
43 100

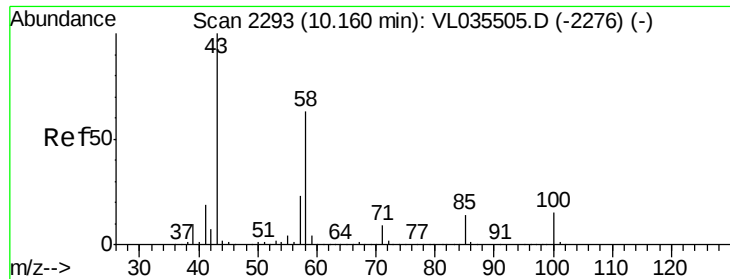
58 44.5 37.4 56.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.424 ppbv

RT: 10.18 min Scan# 2300

Delta R.T. 0.02 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

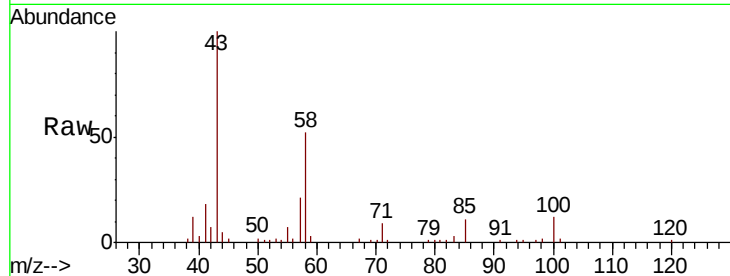
Tot Ion: 43 Resp: 69698

Ion Ratio Lower Upper

43 100

58 58.5 50.2 75.4

98 2.4 0.4 0.6#

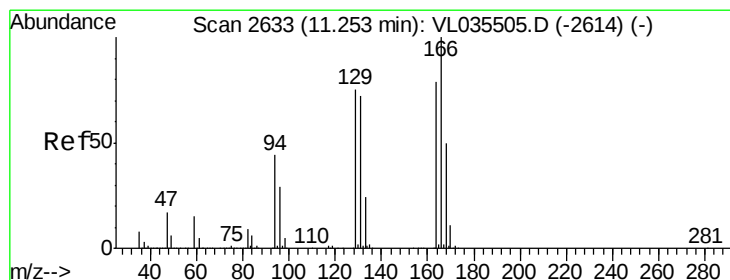
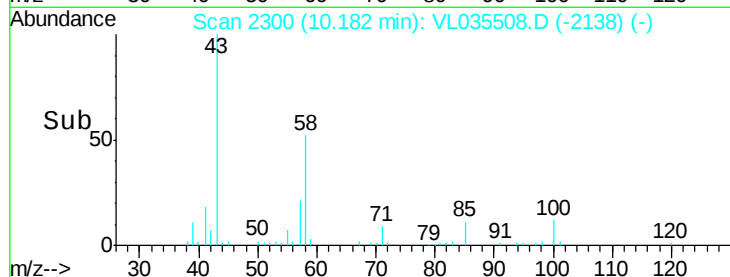
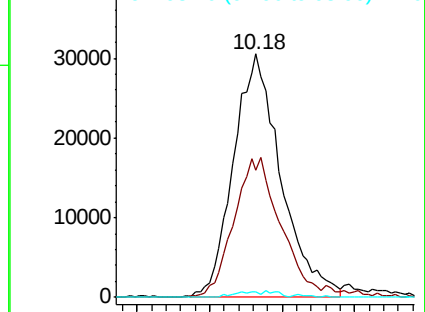


Abundance

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: 0.252 ppbv

RT: 11.25 min Scan# 2631

Delta R.T. -0.01 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Tgt Ion: 164 Resp: 45385

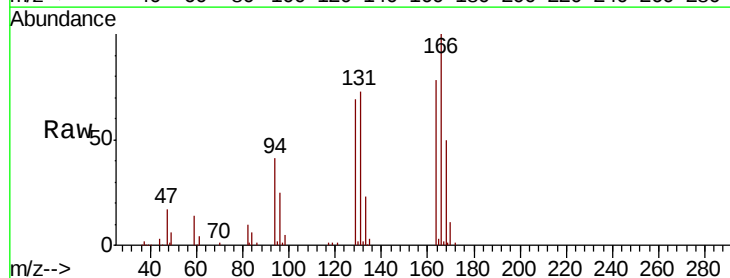
Ion Ratio Lower Upper

164 100

166 127.2 100.9 151.3

129 89.1 75.3 112.9

131 92.3 73.0 109.4



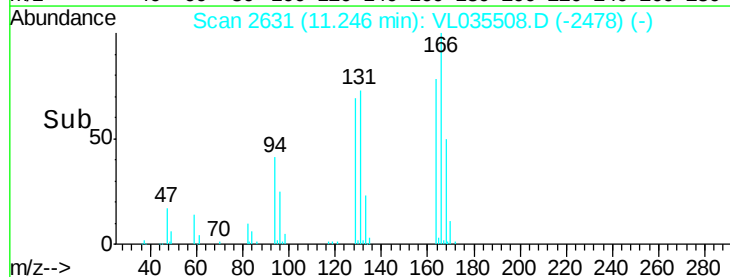
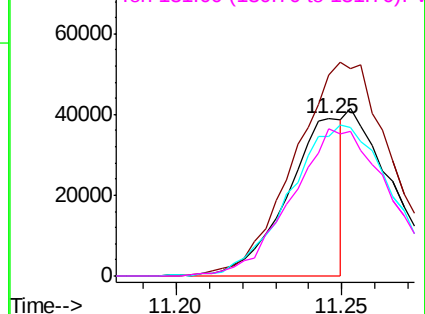
Abundance

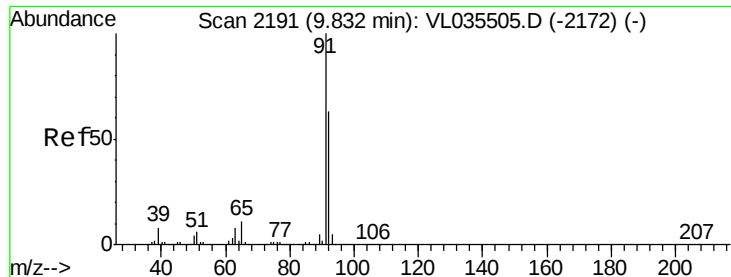
Ion 163.90 (163.60 to 164.60): V

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: 0.446 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

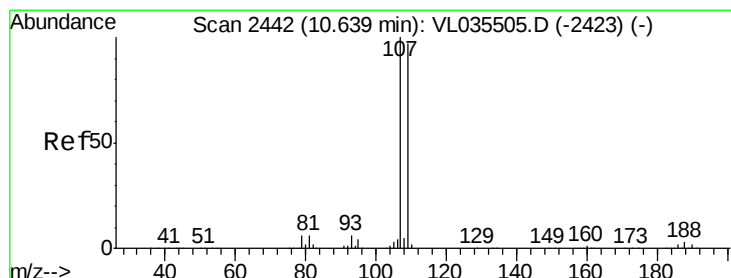
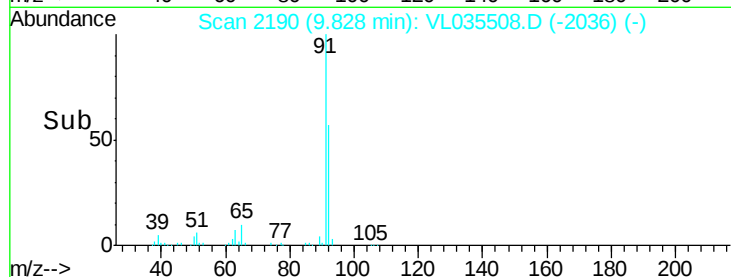
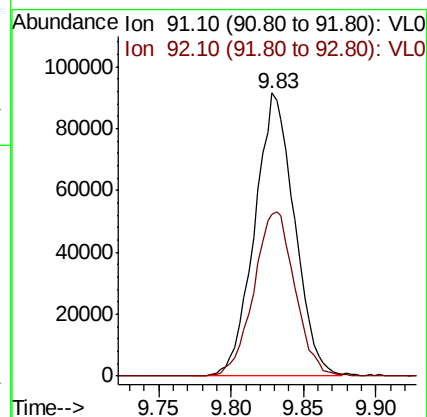
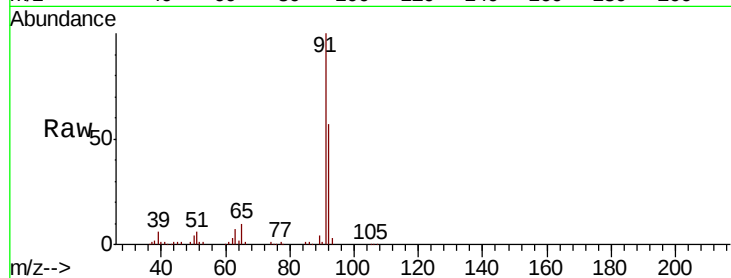
VSTDIC0.5

Tot Ion: 91 Resp: 174869

Ion Ratio Lower Upper

91 100

92 59.7 49.8 74.8



#54

1,2-Dibromoethane

Concen: 0.467 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. -0.00 min

Lab File: VL035508.D

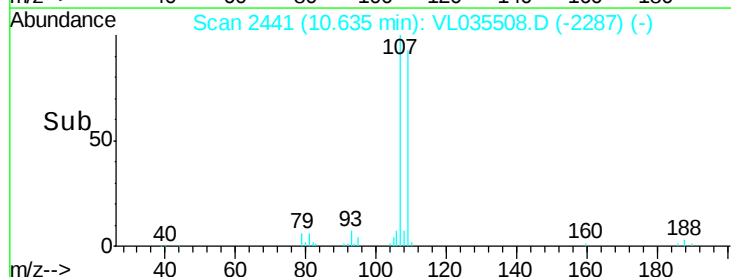
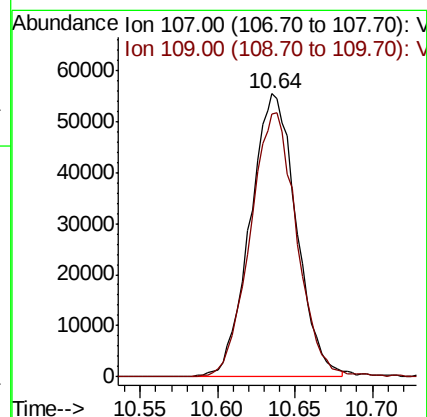
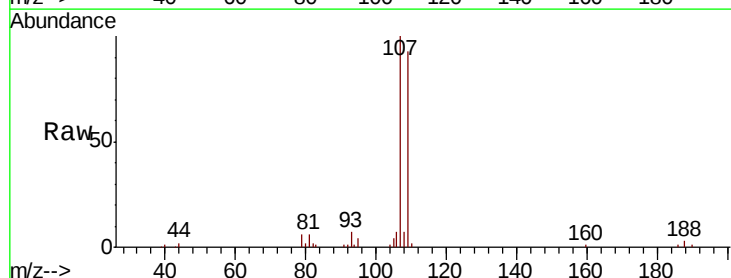
Acq: 27 Aug 2020 4:06

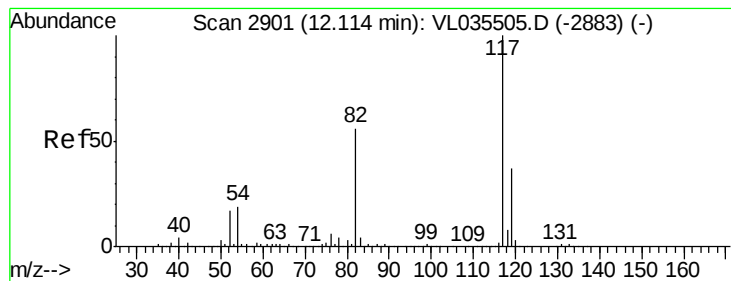
Tgt Ion: 107 Resp: 114977

Ion Ratio Lower Upper

107 100

109 92.8 77.8 116.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampled :

VSTDIC0.5

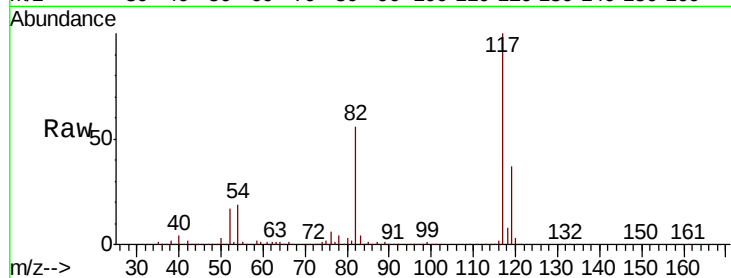
Tot Ion:117 Resp: 4729757

Ion Ratio Lower Upper

117 100

82 53.7 41.6 62.4

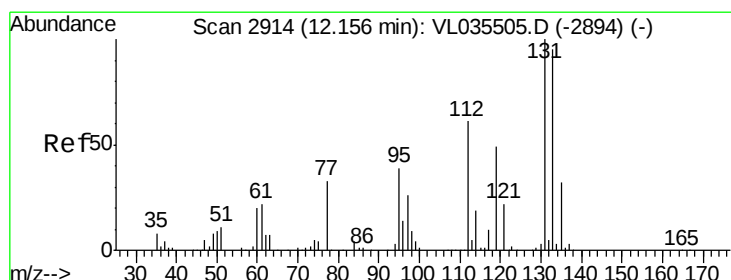
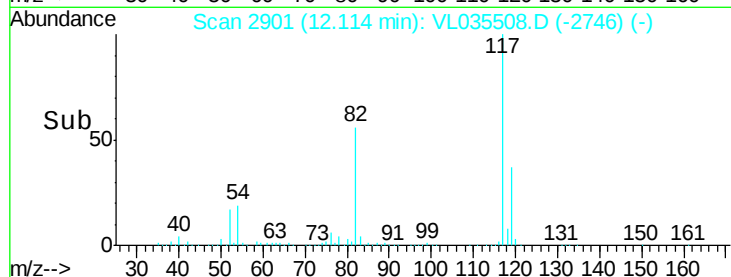
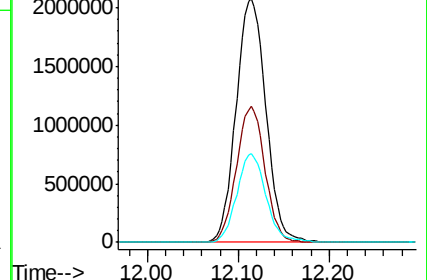
119 35.9 29.3 43.9



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.469 ppbv

RT: 12.16 min Scan# 2914

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

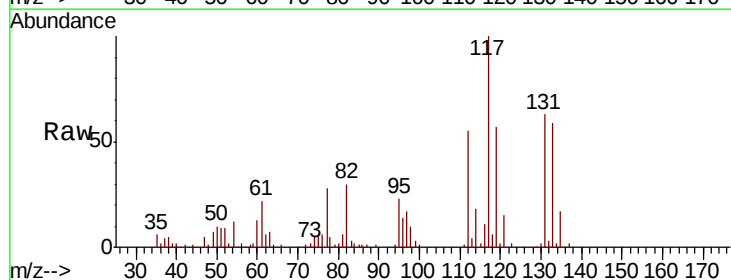
Tgt Ion:131 Resp: 92653

Ion Ratio Lower Upper

131 100

133 94.3 76.6 115.0

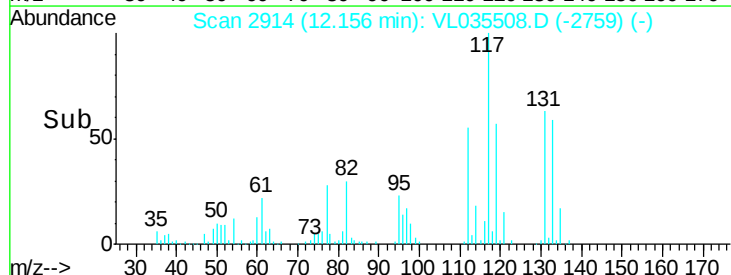
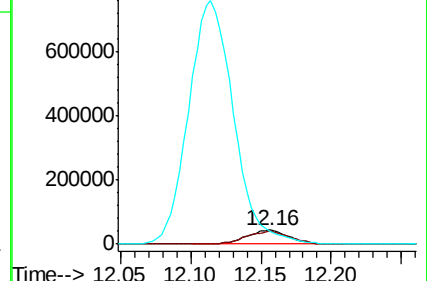
119 1833.4 51.6 77.4#

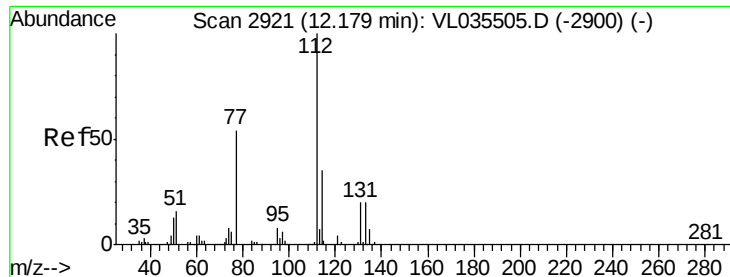


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

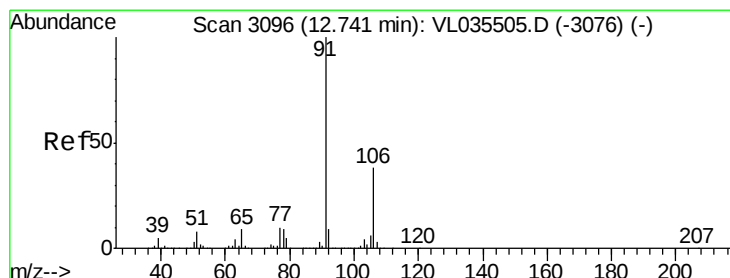
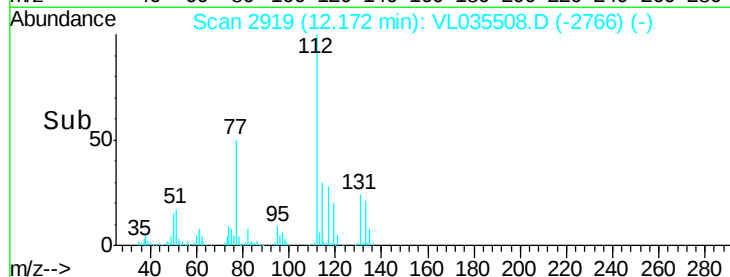
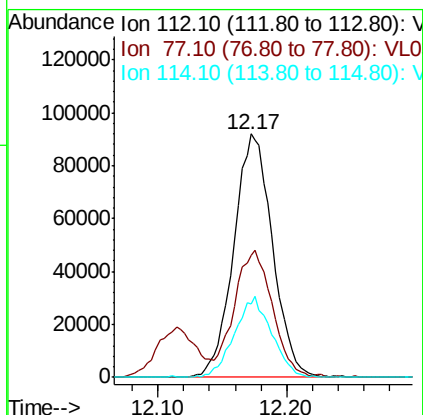
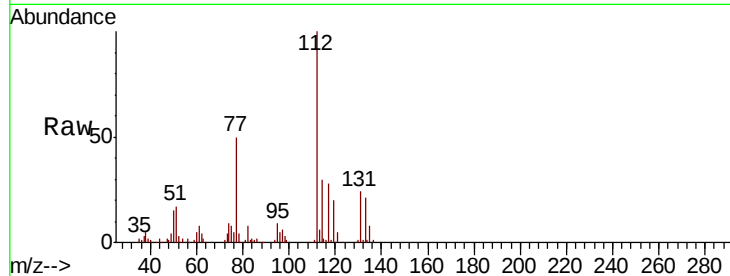




#57
Chlorobenzene
Concen: 0.546 ppbv
RT: 12.17 min Scan# 2919
Delta R.T. -0.01 min
Lab File: VL035508.D
Acq: 27 Aug 2020 4:06

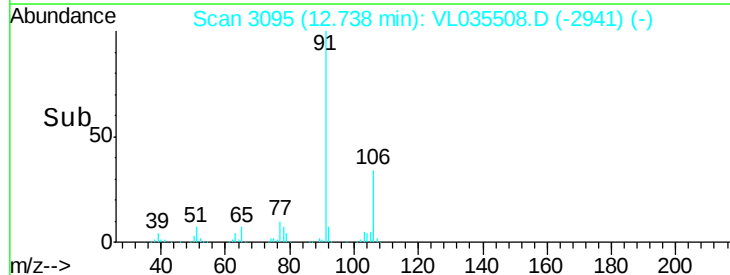
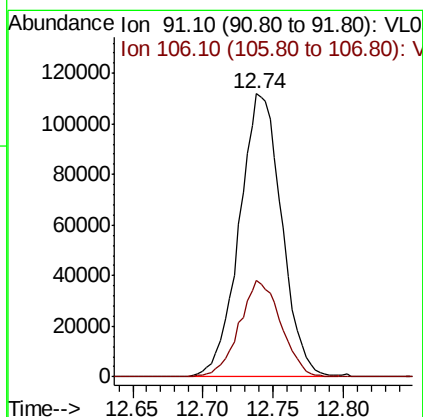
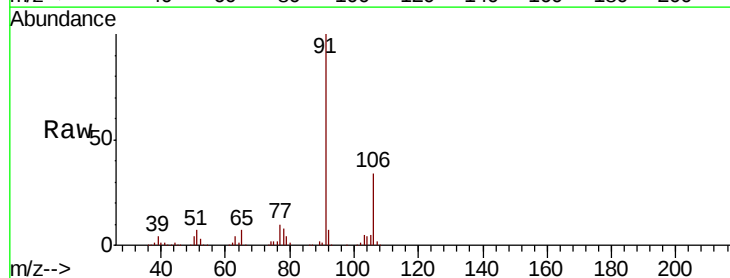
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

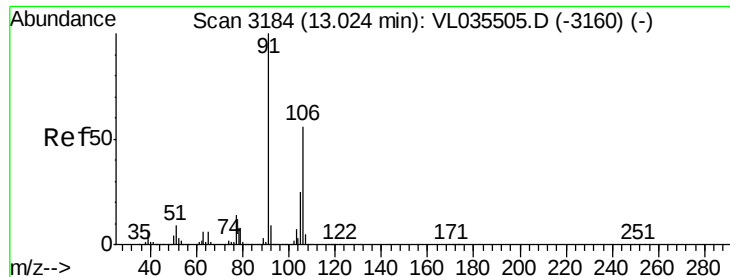
Tot Ion	Ratio	Lower	Upper
112	100		
77	49.7	44.2	66.4
114	30.0	31.6	38.6#



#58
Ethyl Benzene
Concen: 0.469 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. -0.00 min
Lab File: VL035508.D
Acq: 27 Aug 2020 4:06

Tgt Ion	Ratio	Lower	Upper
91	100		
106	34.0	30.3	45.5

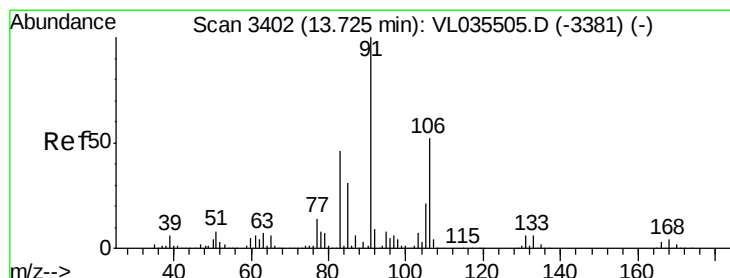
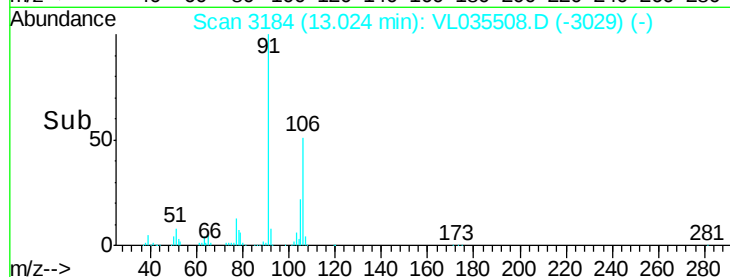
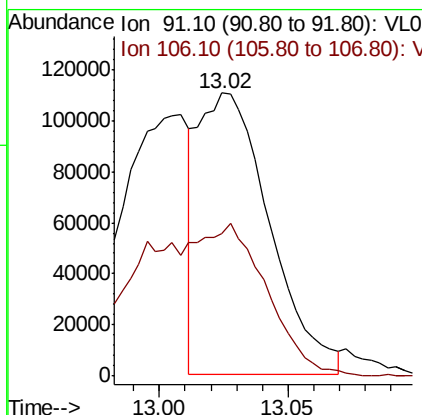
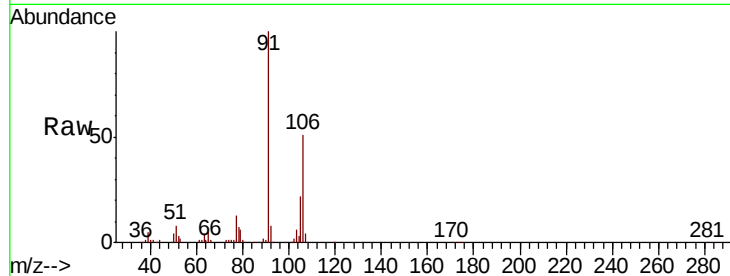




#59
m/p-Xylene
Concen: 0.496 ppbv
RT: 13.02 min Scan# 3184
Delta R.T. -0.00 min
Lab File: VL035508.D
Acq: 27 Aug 2020 4:06

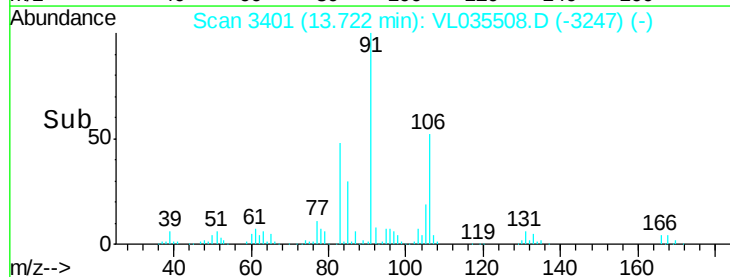
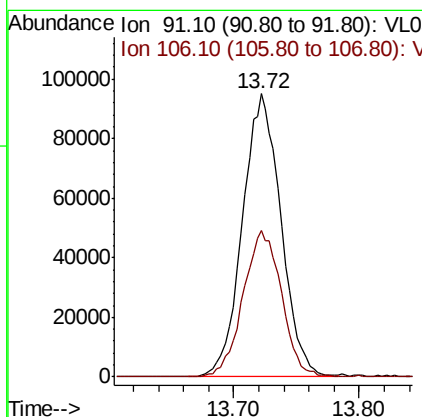
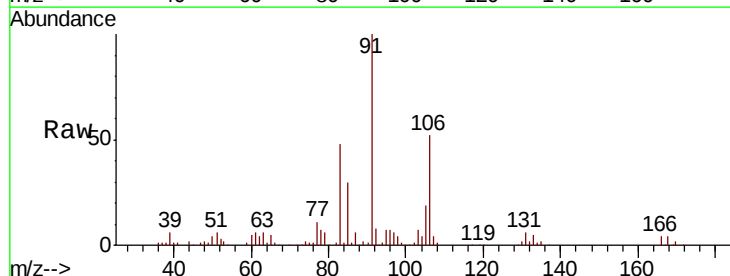
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

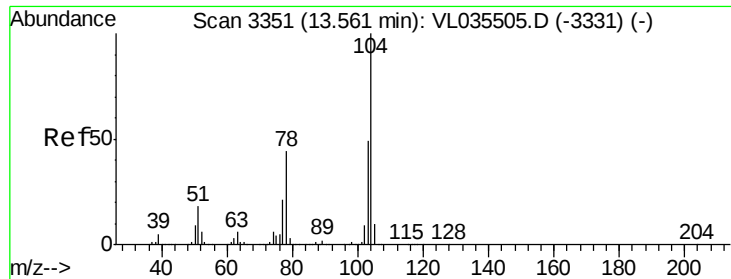
Tot Ion: 91 Resp: 211094
Ion Ratio Lower Upper
91 100
106 98.9 43.4 65.2#



#60
o-Xylene
Concen: 0.483 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. -0.00 min
Lab File: VL035508.D
Acq: 27 Aug 2020 4:06

Tgt Ion: 91 Resp: 202527
Ion Ratio Lower Upper
91 100
106 51.4 25.8 77.4





#61

Stvrene

Concen: 0.416 ppbv

RT: 13.55 min Scan# 3349

Delta R.T. -0.01 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

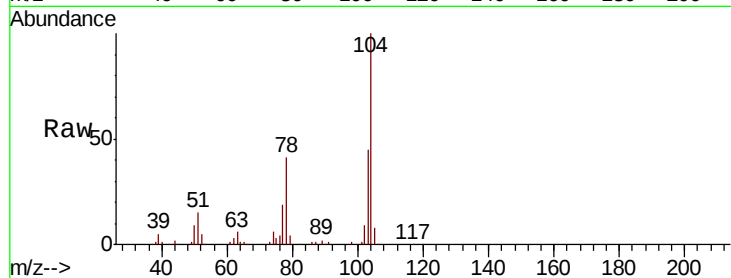
Tot Ion:104 Resp: 134247

Ion Ratio Lower Upper

104 100

78 42.9 34.8 52.2

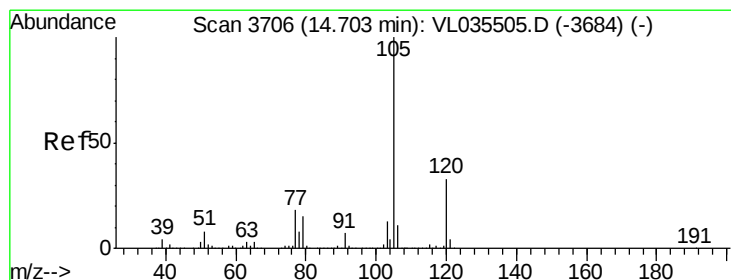
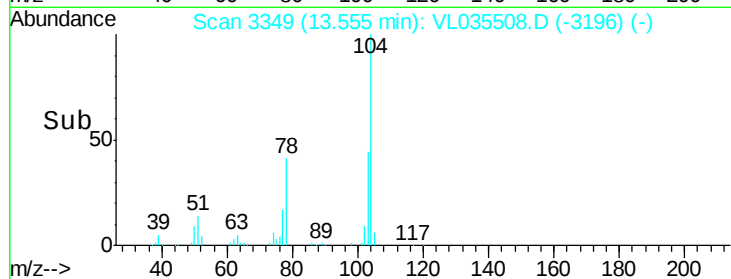
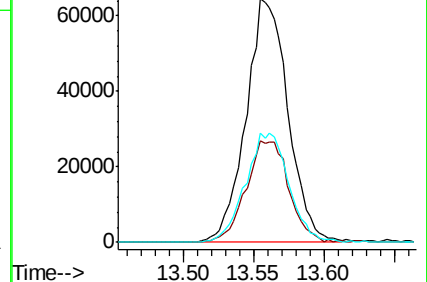
103 46.6 38.2 57.4



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: 0.503 ppbv

RT: 14.70 min Scan# 3705

Delta R.T. -0.00 min

Lab File: VL035508.D

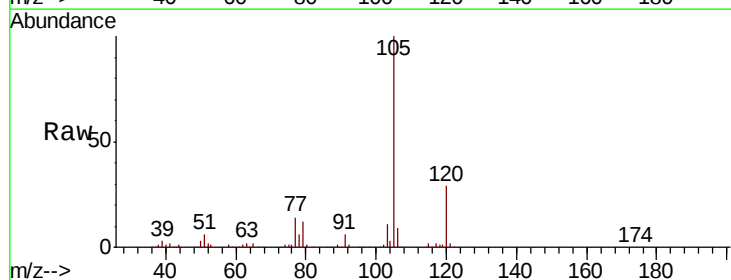
Acq: 27 Aug 2020 4:06

Tgt Ion:105 Resp: 341202

Ion Ratio Lower Upper

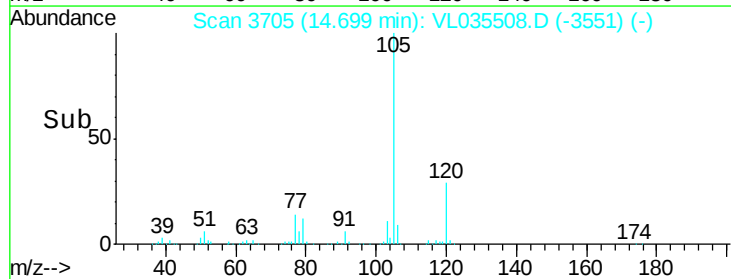
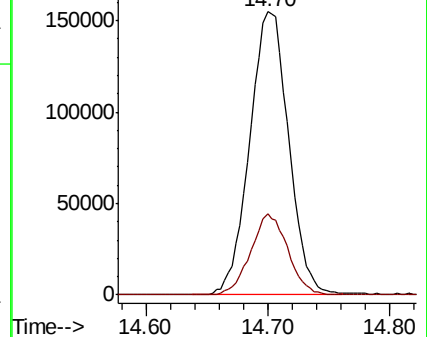
105 100

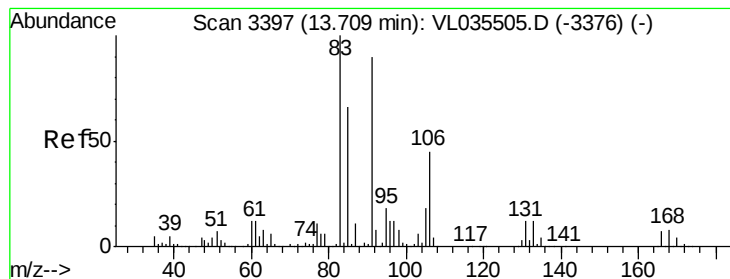
120 27.3 25.0 37.4



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: 0.512 ppbv

RT: 13.71 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

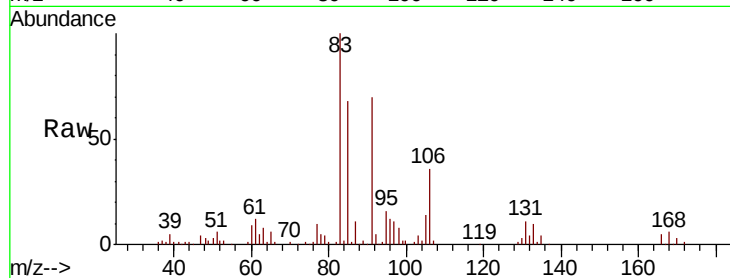
Tot Ion: 83 Resp: 156970

Ion Ratio Lower Upper

83 100

131 11.4 6.0 18.0

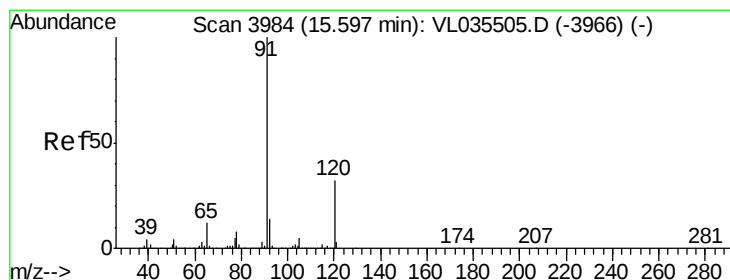
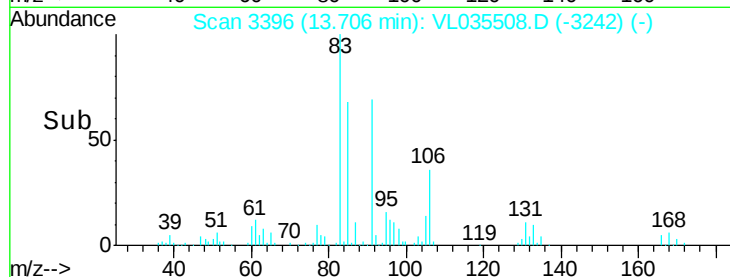
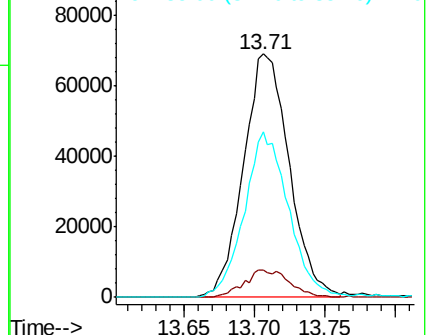
85 66.3 33.4 100.2



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.468 ppbv

RT: 15.60 min Scan# 3984

Delta R.T. -0.00 min

Lab File: VL035508.D

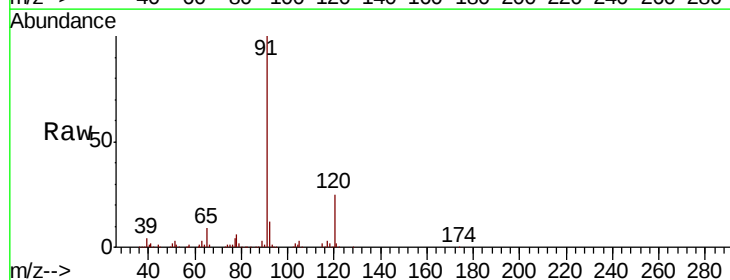
Acq: 27 Aug 2020 4:06

Tgt Ion: 120 Resp: 96635

Ion Ratio Lower Upper

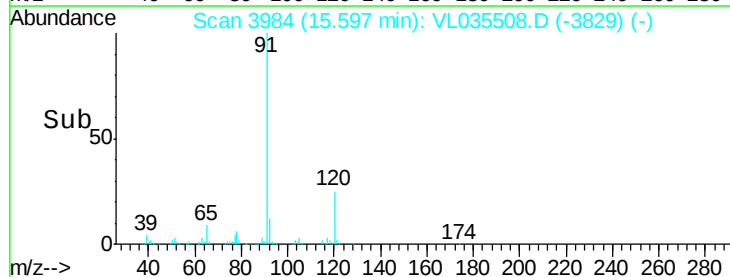
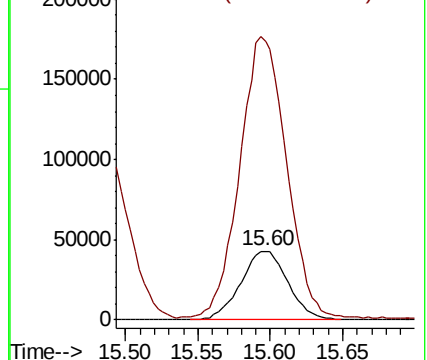
120 100

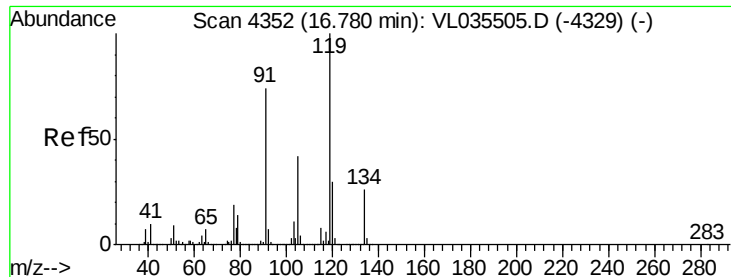
91 419.7 279.4 419.0#



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.457 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. 0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

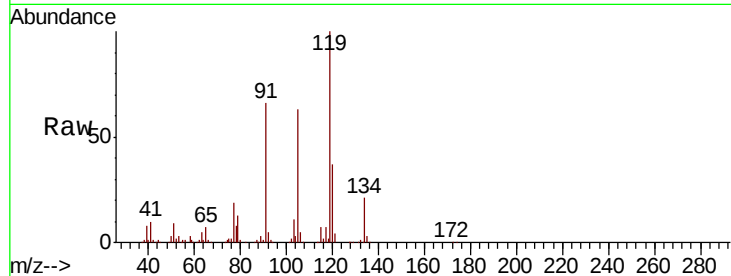
Tot Ion:119 Resp: 294548

Ion Ratio Lower Upper

119 100

91 70.8 58.6 87.8

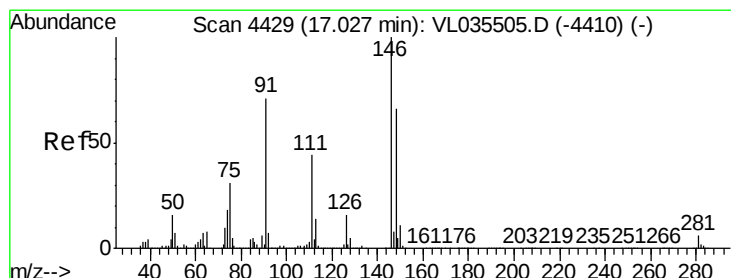
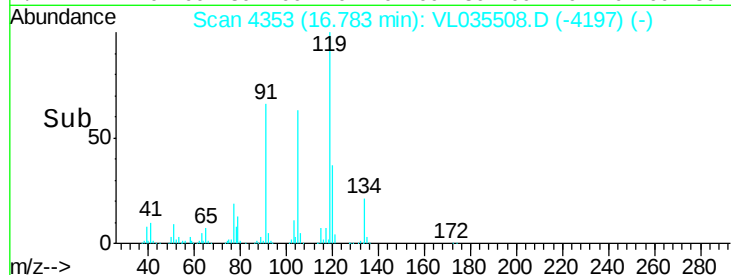
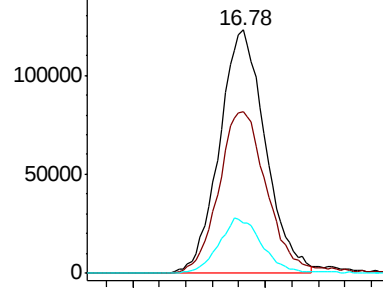
134 21.9 18.9 28.3



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.262 ppbv

RT: 17.02 min Scan# 4428

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

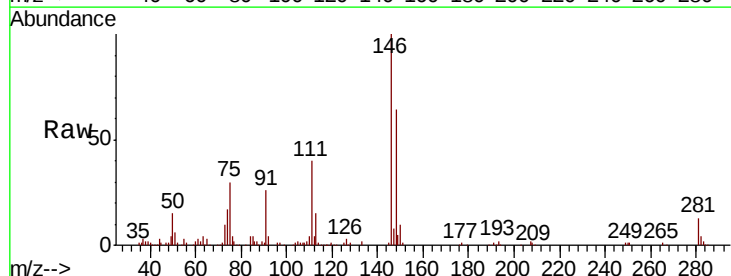
Tgt Ion: 91 Resp: 41032

Ion Ratio Lower Upper

91 100

126 19.0 17.2 25.8

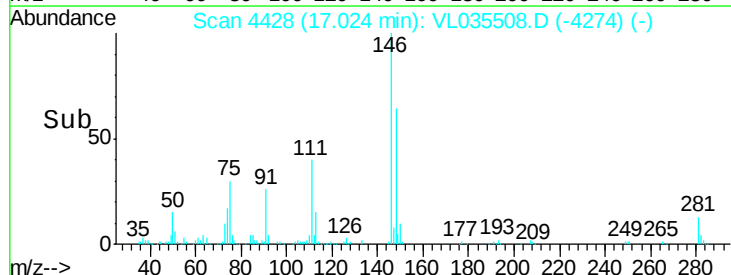
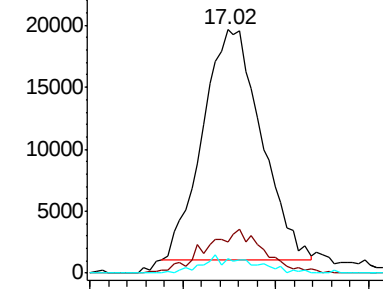
128 6.7 5.5 8.3

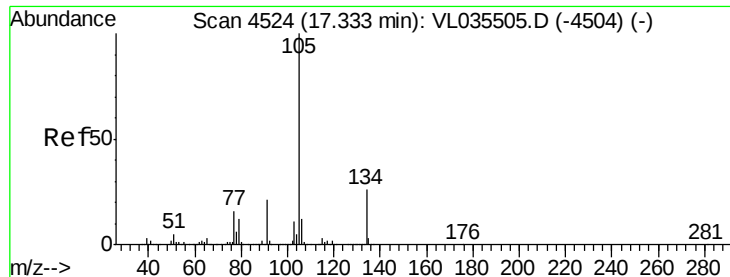


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.476 ppbv

RT: 17.33 min Scan# 4524

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

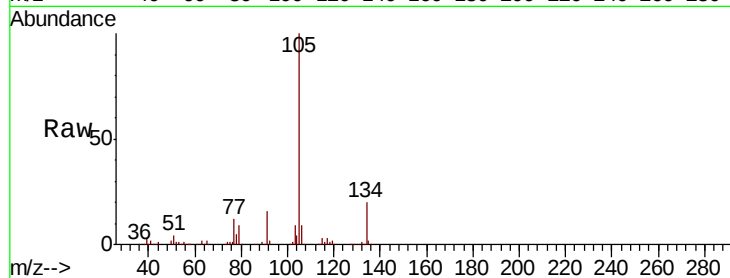
VSTDIC0.5

Tot Ion:105 Resp: 407407

Ion Ratio Lower Upper

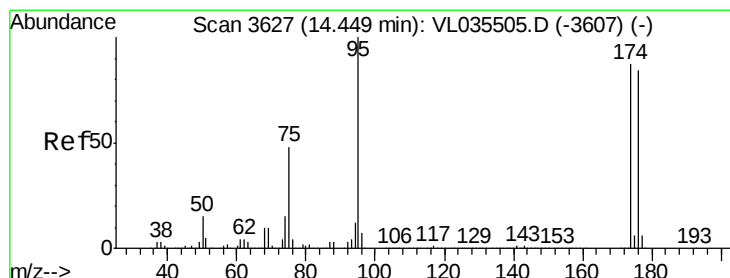
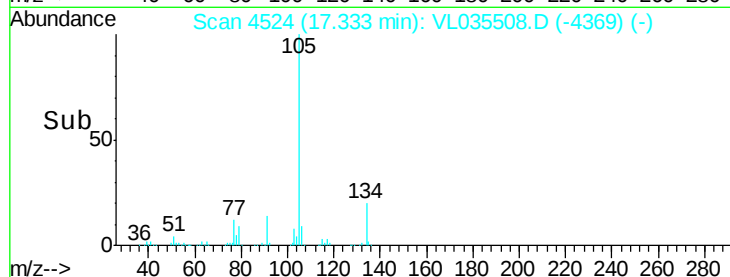
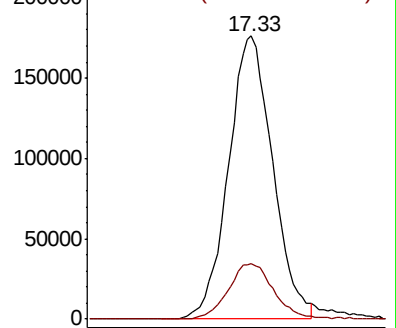
105 100

134 20.5 19.1 28.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.231 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

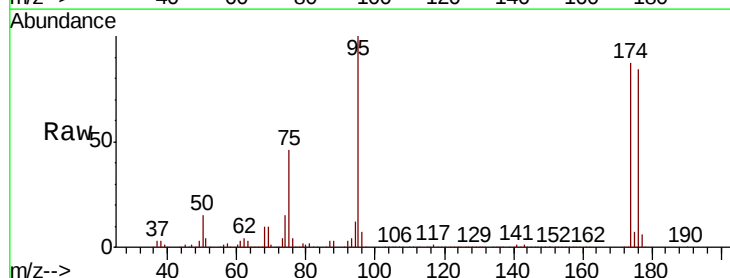
Tgt Ion: 95 Resp: 3430107

Ion Ratio Lower Upper

95 100

174 88.5 69.6 104.4

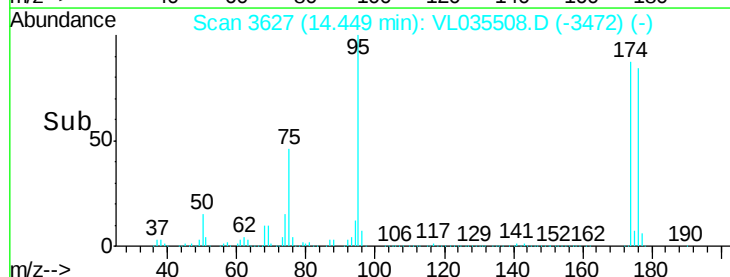
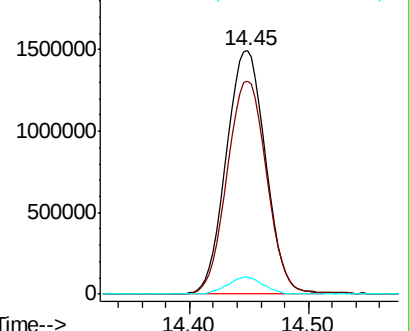
175 6.5 5.1 7.7

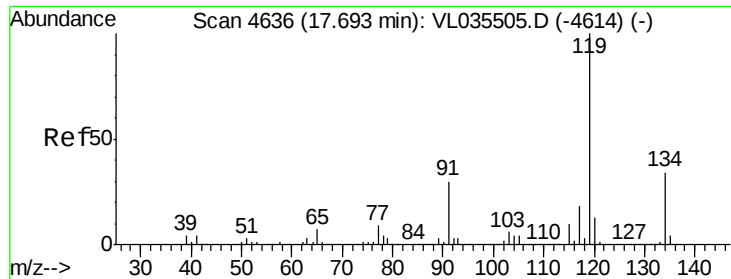


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

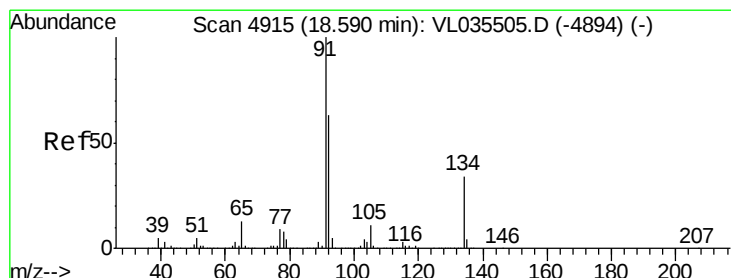
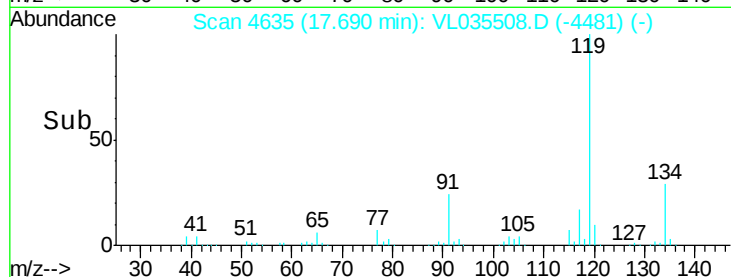
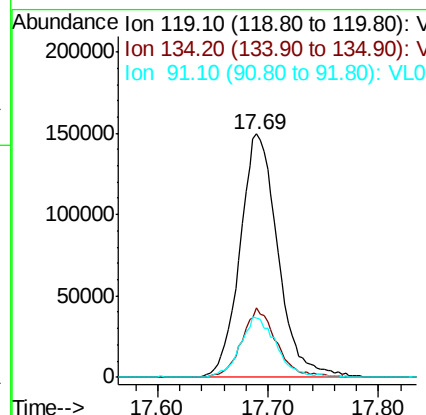
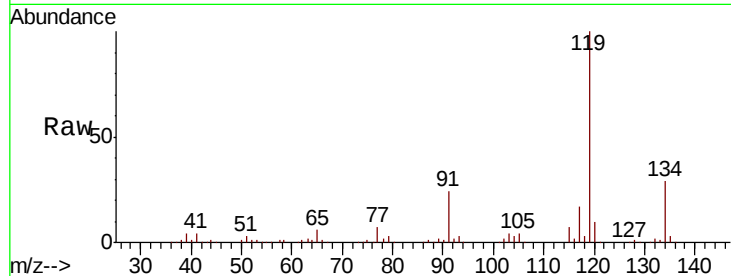




#69
p-Isopropyltoluene
Concen: 0.473 ppbv
RT: 17.69 min Scan# 4635
Delta R.T. -0.00 min
Lab File: VL035508.D
Acq: 27 Aug 2020 4:06

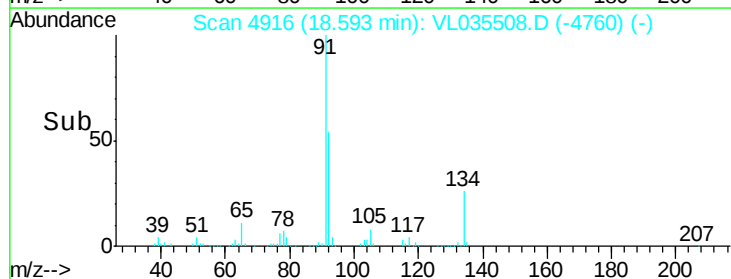
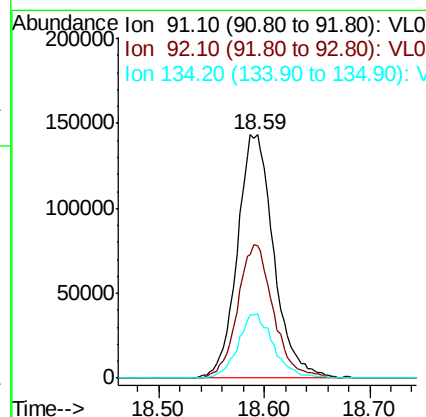
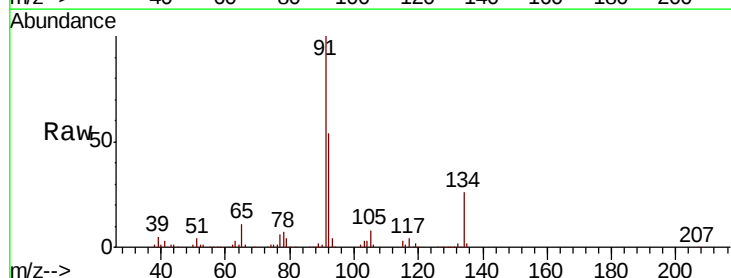
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

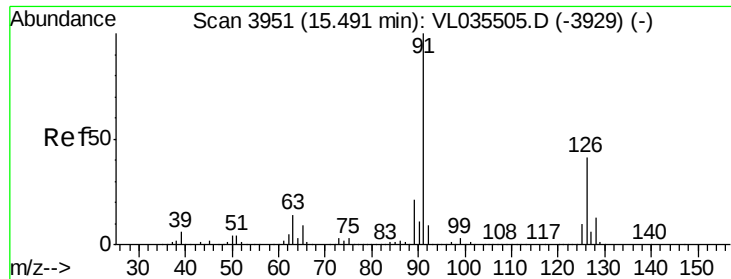
Tot Ion	Ratio	Lower	Upper
119	100		
134	26.5	25.0	37.4
91	24.4	22.3	33.5



#70
n-Butylbenzene
Concen: 0.476 ppbv
RT: 18.59 min Scan# 4916
Delta R.T. 0.00 min
Lab File: VL035508.D
Acq: 27 Aug 2020 4:06

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.2	47.3	70.9
134	26.0	24.6	37.0

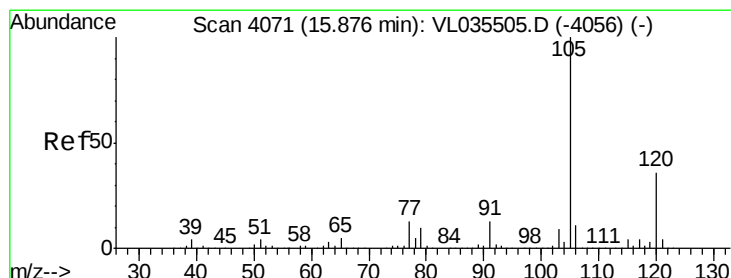
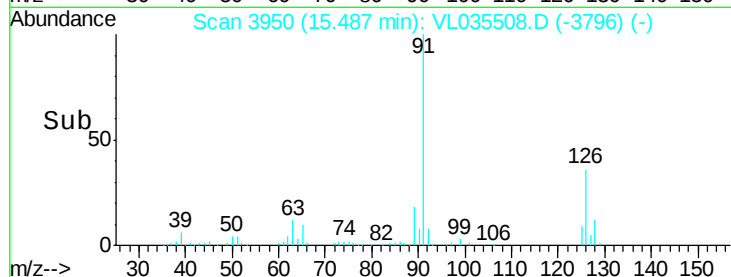
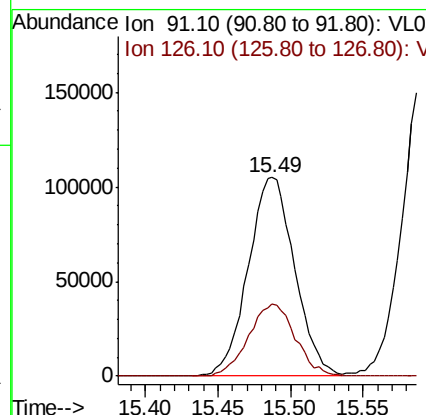
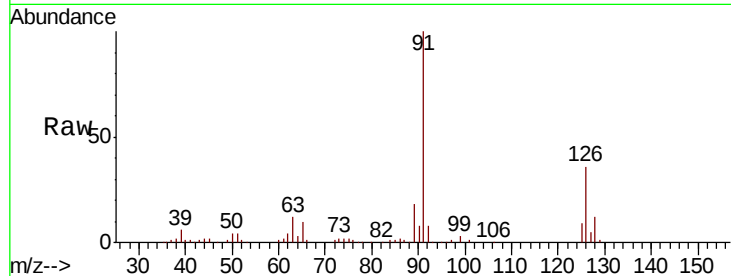




#71
 2-Chlorotoluene
 Concen: 0.475 ppbv
 RT: 15.49 min Scan# 3950
 Delta R.T. -0.00 min
 Lab File: VL035508.D
 Acq: 27 Aug 2020 4:06

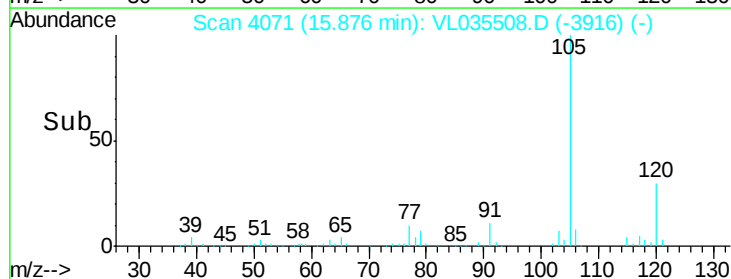
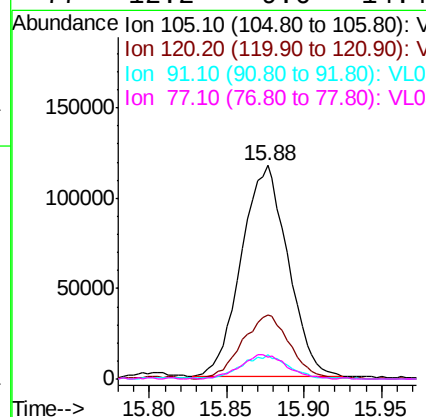
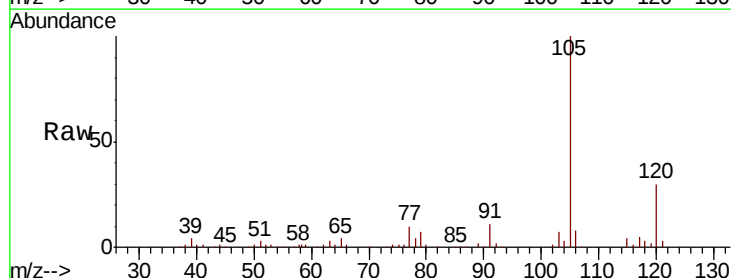
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

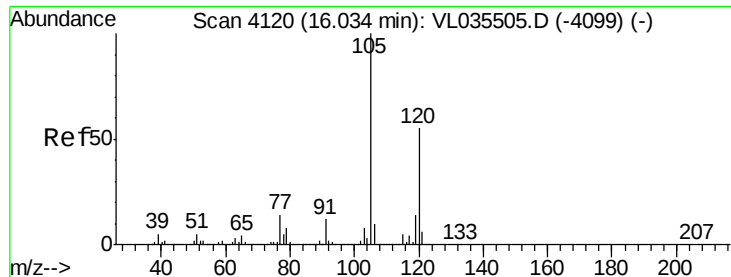
Tot Ion: 91 Resp: 233276
 Ion Ratio Lower Upper
 91 100
 126 36.9 15.6 62.6



#72
 4-Ethyltoluene
 Concen: 0.458 ppbv
 RT: 15.88 min Scan# 4071
 Delta R.T. -0.00 min
 Lab File: VL035508.D
 Acq: 27 Aug 2020 4:06

Tgt Ion: 105 Resp: 244848
 Ion Ratio Lower Upper
 105 100
 120 31.2 27.4 41.2
 91 12.6 9.7 14.5
 77 12.2 9.6 14.4





#73

1,3,5-Trimethylbenzene

Concen: 0.455 ppbv

RT: 16.03 min Scan# 4120

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

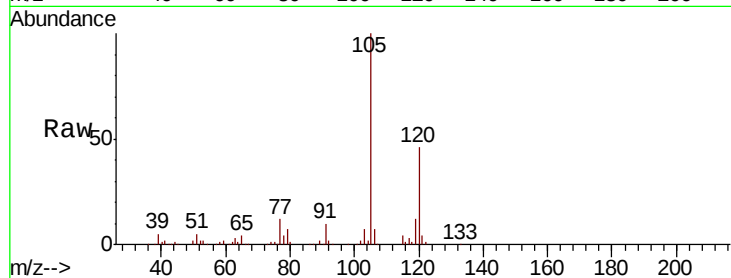
VSTDIC0.5

Tot Ion:105 Resp: 225026

Ion Ratio Lower Upper

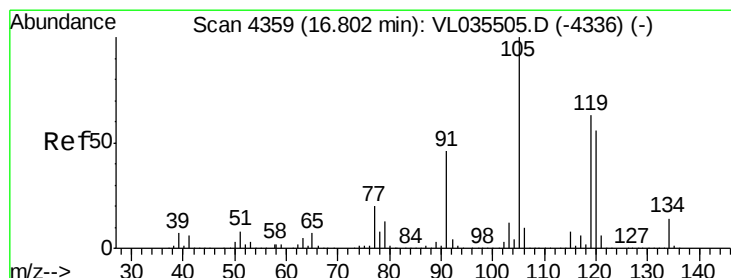
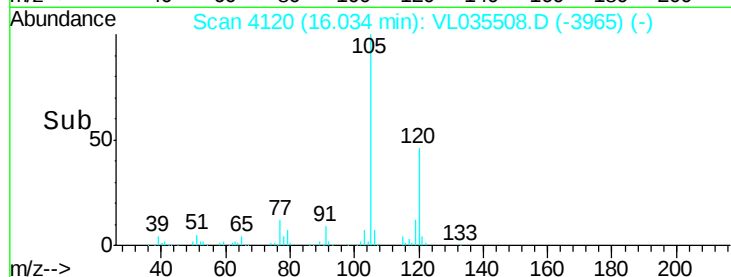
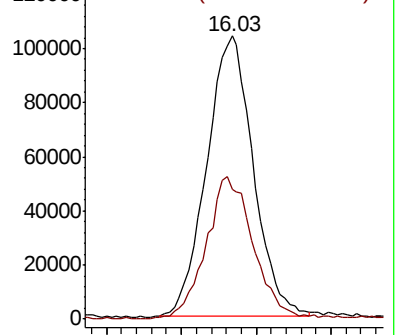
105 100

120 45.8 44.2 66.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.494 ppbv

RT: 16.80 min Scan# 4357

Delta R.T. -0.01 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Tgt Ion:105 Resp: 268386

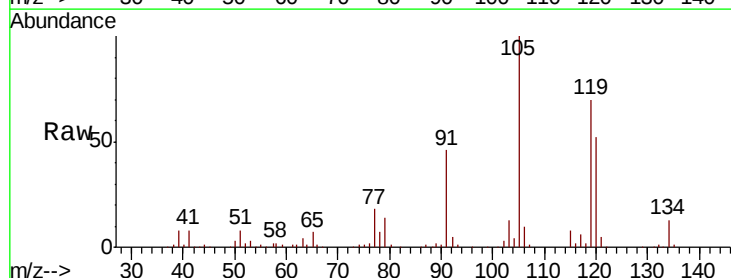
Ion Ratio Lower Upper

105 100

120 51.9 44.4 66.6

91 43.8 37.1 55.7

77 16.7 16.0 24.0

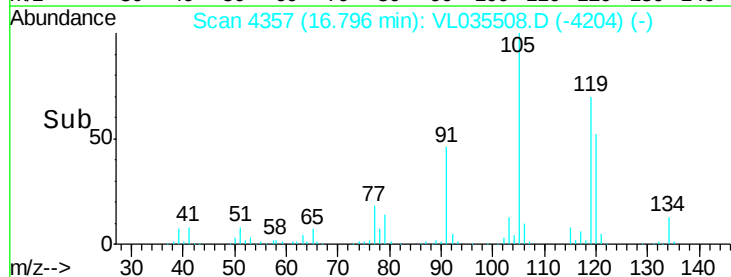
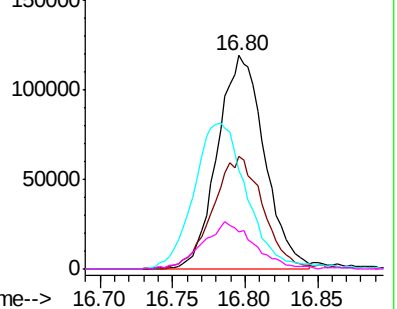


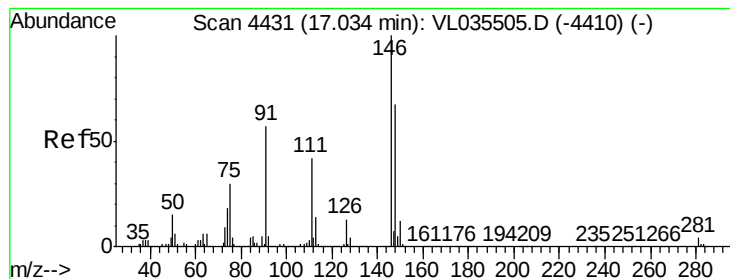
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#75

1,3-Dichlorobenzene

Concen: 0.507 ppbv

RT: 17.03 min Scan# 4430

Delta R.T. -0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

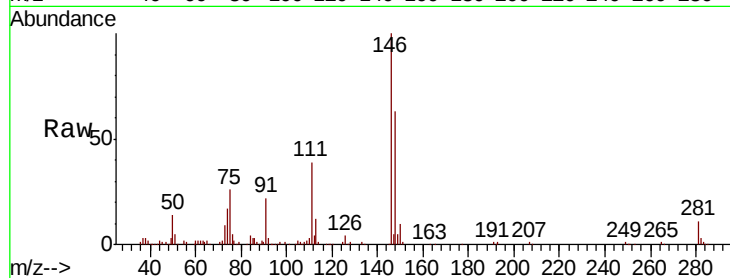
Tot Ion:146 Resp: 206207

Ion Ratio Lower Upper

146 100

111 39.1 20.7 62.1

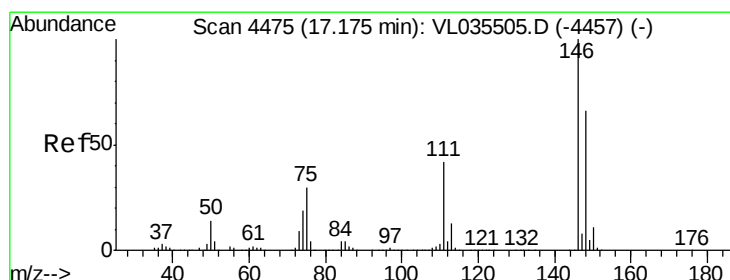
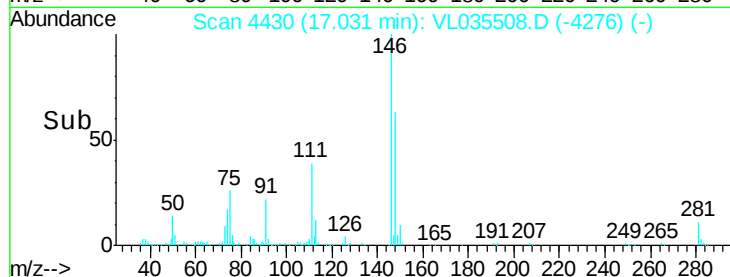
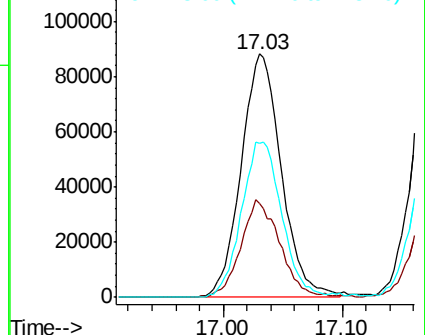
148 64.9 33.0 98.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.486 ppbv

RT: 17.18 min Scan# 4476

Delta R.T. 0.00 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

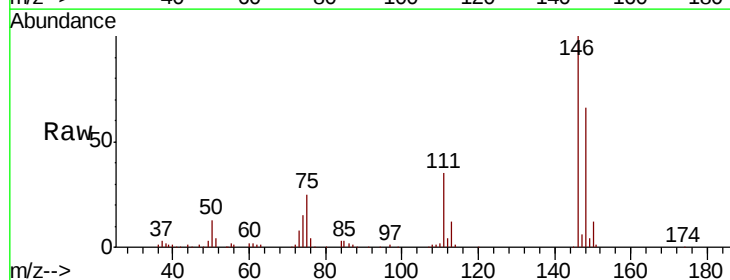
Tgt Ion:146 Resp: 197353

Ion Ratio Lower Upper

146 100

111 39.1 20.0 60.0

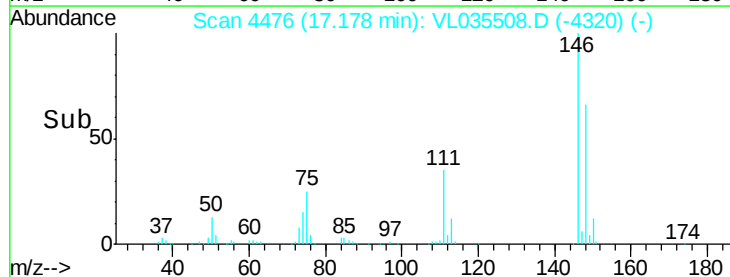
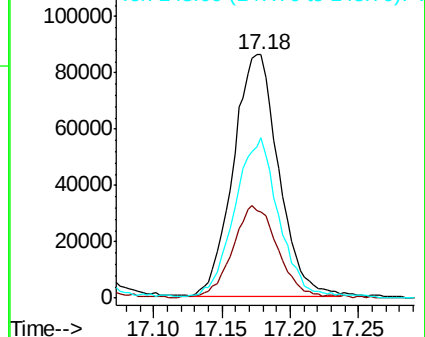
148 66.4 33.2 99.6

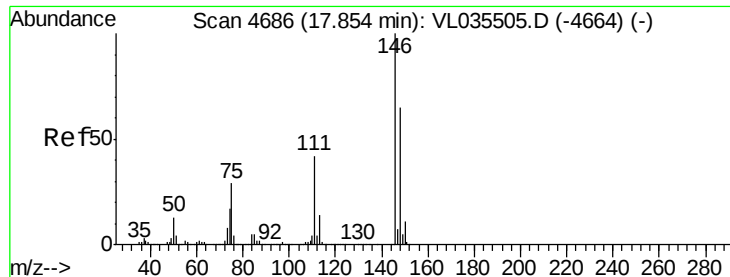


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

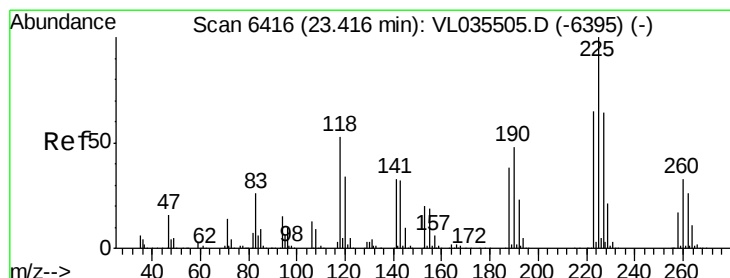
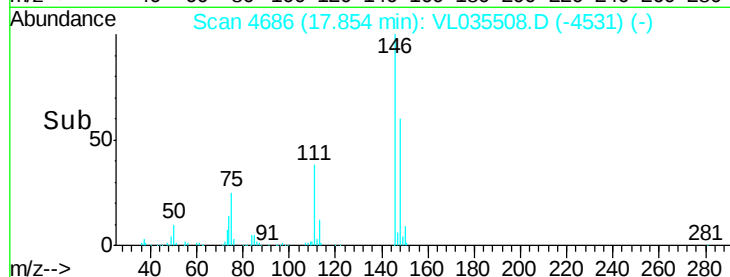
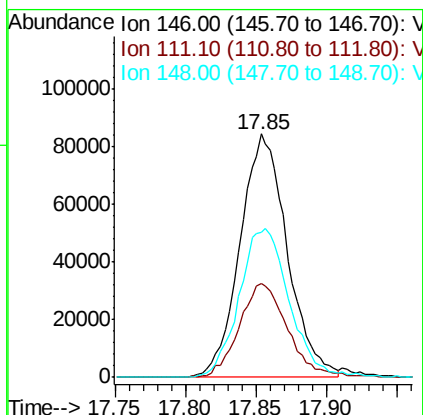
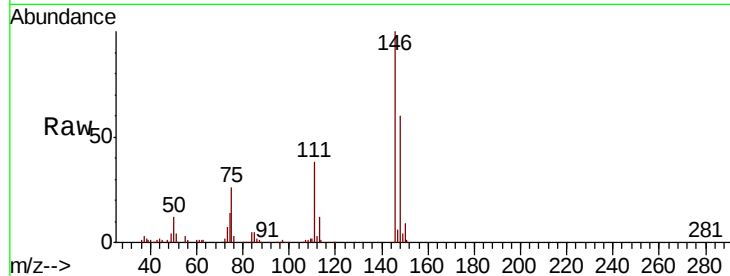




#77
 1,2-Dichlorobenzene
 Concen: 0.491 ppbv
 RT: 17.85 min Scan# 4686
 Delta R.T. -0.00 min
 Lab File: VL035508.D
 Acq: 27 Aug 2020 4:06

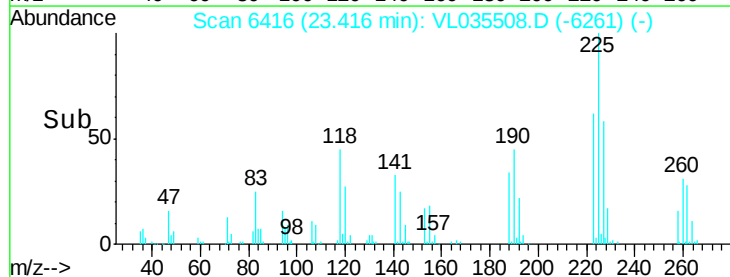
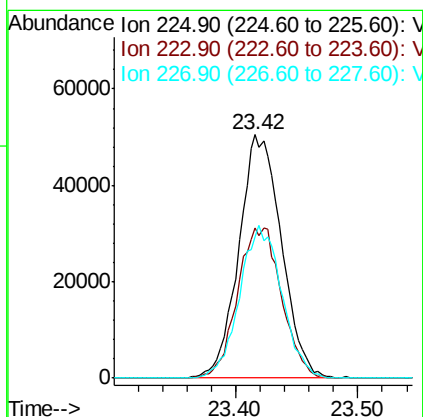
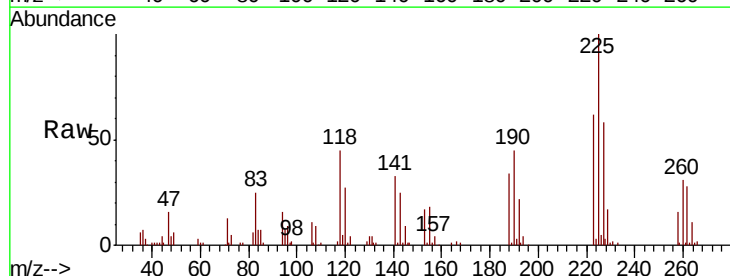
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

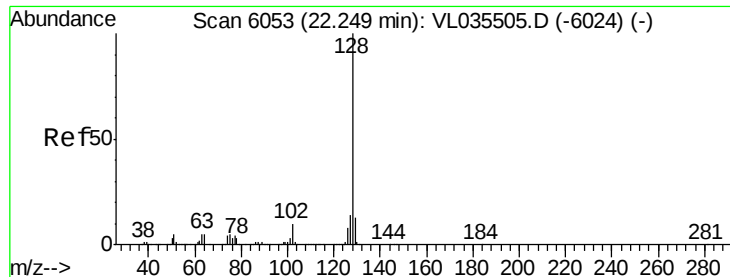
Tot Ion:146 Resp: 196660
 Ion Ratio Lower Upper
 146 100
 111 40.0 21.1 63.3
 148 65.5 32.9 98.7



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.442 ppbv
 RT: 23.42 min Scan# 6416
 Delta R.T. -0.00 min
 Lab File: VL035508.D
 Acq: 27 Aug 2020 4:06

Tgt Ion:225 Resp: 121547
 Ion Ratio Lower Upper
 225 100
 223 64.2 51.7 77.5
 227 62.3 51.5 77.3





#79

Naphthalene

Concen: 0.376 ppbv

RT: 22.26 min Scan# 6056

Delta R.T. 0.01 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

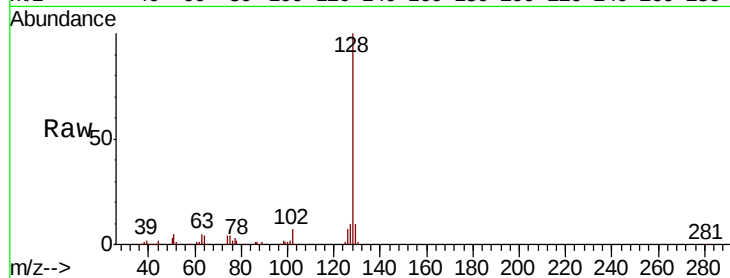
Tot Ion:128 Resp: 254034

Ion Ratio Lower Upper

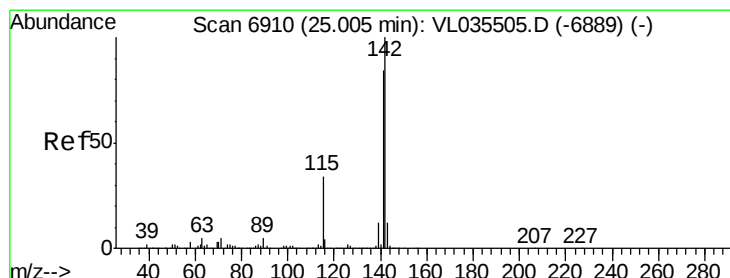
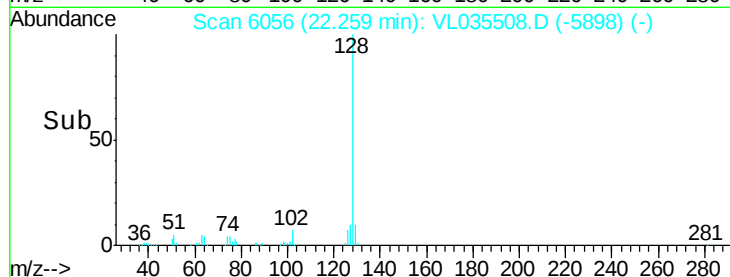
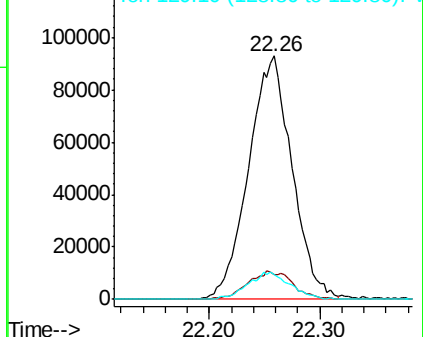
128 100

127 10.3 11.4 17.2#

129 10.0 10.5 15.7#



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.232 ppbv

RT: 25.01 min Scan# 6912

Delta R.T. 0.01 min

Lab File: VL035508.D

Acq: 27 Aug 2020 4:06

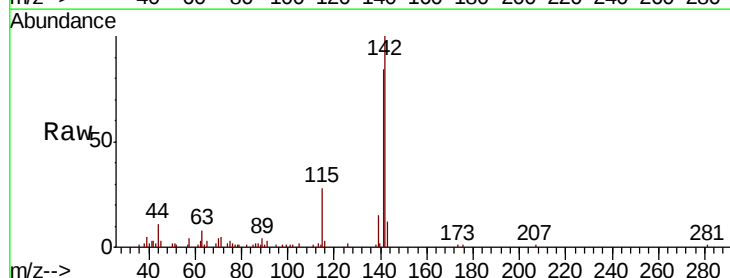
Tgt Ion:142 Resp: 61673

Ion Ratio Lower Upper

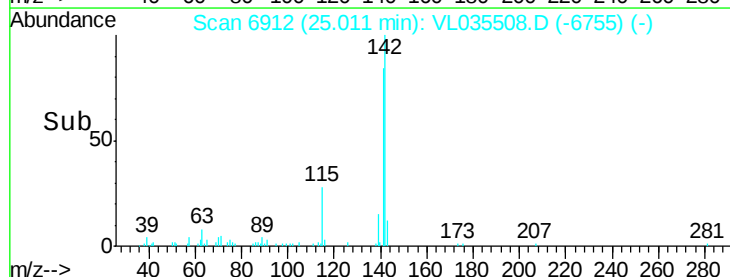
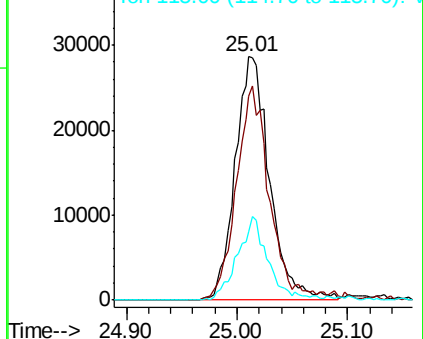
142 100

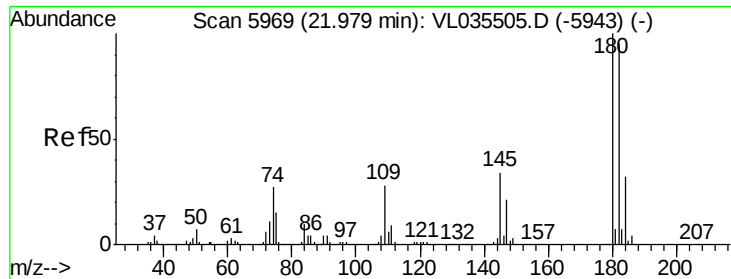
141 86.3 67.6 101.4

115 31.6 25.8 38.8



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V

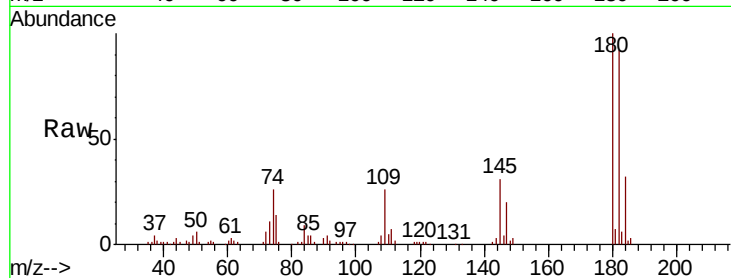




#81
 1,2,4-Trichlorobenzene
 Concen: 0.418 ppbv
 RT: 21.98 min Scan# 5970
 Delta R.T. 0.00 min
 Lab File: VL035508.D
 Acq: 27 Aug 2020 4:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.3	114.5
184	31.3	25.3	37.9



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

